

TEST REPORT

Application No.: KSCR2509002199AT
FCC ID 2BHTAAIH-2541
Applicant: SYNLAN TECHNOLOGY PTE. LTD.
Address of Applicant: 7 TEMASEK BOULEVARD, #29-01D, SUNTEC TOWER ONE, SINGAPORE 038987
Manufacturer: SYNLAN TECHNOLOGY PTE. LTD.
Address of Manufacturer: 7 TEMASEK BOULEVARD, #29-01D, SUNTEC TOWER ONE, SINGAPORE 038987
Factory: Ganzhou Ouxiang Electronics Co., Ltd
Address of Factory: No. 66, Baokuang Road, Shangou Industrial Park, Yudu County, Ganzhou City, Jiangxi Province, P.R. China
Equipment Under Test (EUT):
EUT Name: iFLYTEK AI Translation Earbuds
Model No.: AIH-2541
Trade Mark: iFLYTEK
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2025-09-29
Date of Test: 2025-10-26 to 2025-10-29
Date of Issue: 2025-11-10

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

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Revision Record			
Version	Description	Date	Remark
00	Original	2025-11-10	/

Authorized for issue by:				
Tested By		Damon Zhou		
		Damon_Zhou/Project Engineer		
Approved By		Terry Hou		
		Terry Hou /Reviewer		

2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass
Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence		N/A	47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2020) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Conducted Peak Output Power		ANSI C63.10 (2020) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(1)	Pass
20dB Bandwidth		ANSI C63.10 (2020) Section 6.9.2	47 CFR Part 15, Subpart C 15.247(a)(1)	Pass
Carrier Frequencies Separation		ANSI C63.10 (2020) Section 7.8.2	47 CFR Part 15, Subpart C 15.247a(1)	Pass
Hopping Channel Number		ANSI C63.10 (2020) Section 7.8.3	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass
Dwell Time		ANSI C63.10 (2020) Section 7.8.4	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2020) Section 7.8.7.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2020) Section 7.8.7	47 CFR Part 15, Subpart C 15.247(d)	Pass

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4 General Information

4.1 Details of E.U.T.

Power supply:	Charging case battery model:543332PN3 Rated Capacity: 800mAh Nominal Energy: 3.04Wh Limited Charge Voltage: 4.35V Earbud Battery model:79213PF4 Rated Capacity: 100mAh Nominal Energy: 0.39Wh Nominal Voltage: 3.85V Limited Charge Voltage: 4.4V
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Antenna Type:	PIFA Antenna
Antenna Gain:	Left earbud:2.63dBi; (Provided by the manufacturer) Right earbud; 2.40dBi; (Provided by the manufacturer)

4.2 Power level setting using in test:

Channel	DH	2DH	3DH
	Ant 1	Ant 1	Ant 1
00	5	5	5
39	5	5	5
78	5	5	5

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	Lenovo	/	/

4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-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.		

4.5 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).
3. Sample source: sent by customer.

4.6 Test Facility

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

- **A2LA**

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

- **FCC**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

- **ISED**

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**

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.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	07/09/2025	07/08/2026
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	07/09/2025	07/08/2026
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/15/2025	01/14/2026
4	Signal Generator	R&S	SMBV100B	KSEM032	02/19/2025	02/18/2026
5	Signal Generator	R&S	SMW200A	KSEM020-1	07/09/2025	07/08/2026
6	Signal Generator	Agilent	N5182A	KUS2001M001-1	07/08/2025	07/07/2026
7	Signal Generator	Agilent	E8257C	KS301066	07/22/2025	07/21/2026
8	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	07/09/2025	07/08/2026
9	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	02/19/2025	02/18/2026
10	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	07/08/2025	07/07/2026
11	Switcher	TST	FY562	KUS2001M001-4	01/15/2025	01/14/2026
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111- CZ301120	01/14/2025	01/13/2026
13	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	07/15/2025	07/14/2026
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	02/26/2025	02/25/2026
15	Software	BST	TST-PASS	/	NCR	NCR
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	07/09/2025	07/08/2026
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	02/18/2025	02/17/2026
3	Signal Generator	Agilent	E8257C	KS301066	07/22/2025	07/21/2026
4	Loop Antenna (9KHz-30MHz)	COM-POWER	AL-130R	KUS1806E001	07/11/2025	07/10/2026
5	Bilog Antenna (30MHz-1GHz)	TESEQ	CBL 6112D	KUS1806E005	07/12/2025	07/11/2026
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	03/23/2024	03/22/2026
7	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	01/07/2024	01/06/2026
8	Amplifier(30MHz~1GHz)	TST	LNA009100G30	KSEM061	01/15/2025	01/14/2026
9	Amplifier(400MHz~8GHz)	TST	LNA004080G30	KSEM062	01/15/2025	01/14/2026
10	Amplifier(1GHz~18GHz)	TST	LNA010180G45	KSEM039	07/09/2025	07/08/2026
11	Amplifier(18~40GHz)	TST	LNA180400G40	KSEM038	07/09/2025	07/08/2026
12	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	02/26/2025	02/25/2026
13	Software	Faratronic	EZ_EMG-v 3A1	/	NCR	NCR
14	Software	ESE	E3_V 6.111221a	/	NCR	NCR

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 PIFA Antenna on the main PCB and no consideration of replacement. The best case gain of the Left earbud: 2.63dBi; Right earbud; 2.40dBi

Antenna location: Refer to internal photo.

6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

6.2.2 Conclusion

Standard Requirement: The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals. Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section. The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted. Compliance for section 15.247(a)(1): According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONES; i.e. the shift register is initialized with nine ones. > Number of shift register stages: 9 > Length of pseudo-random sequence: $2^9 - 1 = 511$ bits > Longest sequence of zeros: 8 (non-inverted signal) Linear Feedback Shift Register for Generation of the PRBS sequence An example of Pseudorandom Frequency Hopping Sequence as follow: Each frequency used equally on the average by each transmitter. According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals. Compliance for section 15.247(g): According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system. Compliance for section 15.247(h): According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels. The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

7 Radio Spectrum Matter Test Results

7.1 Radiated Emissions which fall in the restricted bands

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

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

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.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

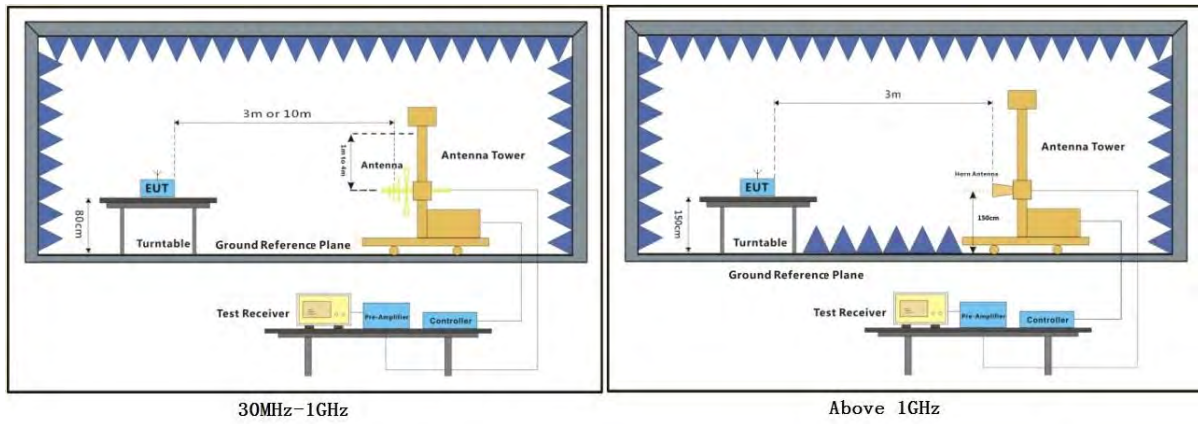
Humidity: 45.8 % RH

Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram



7.1.4 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: $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$

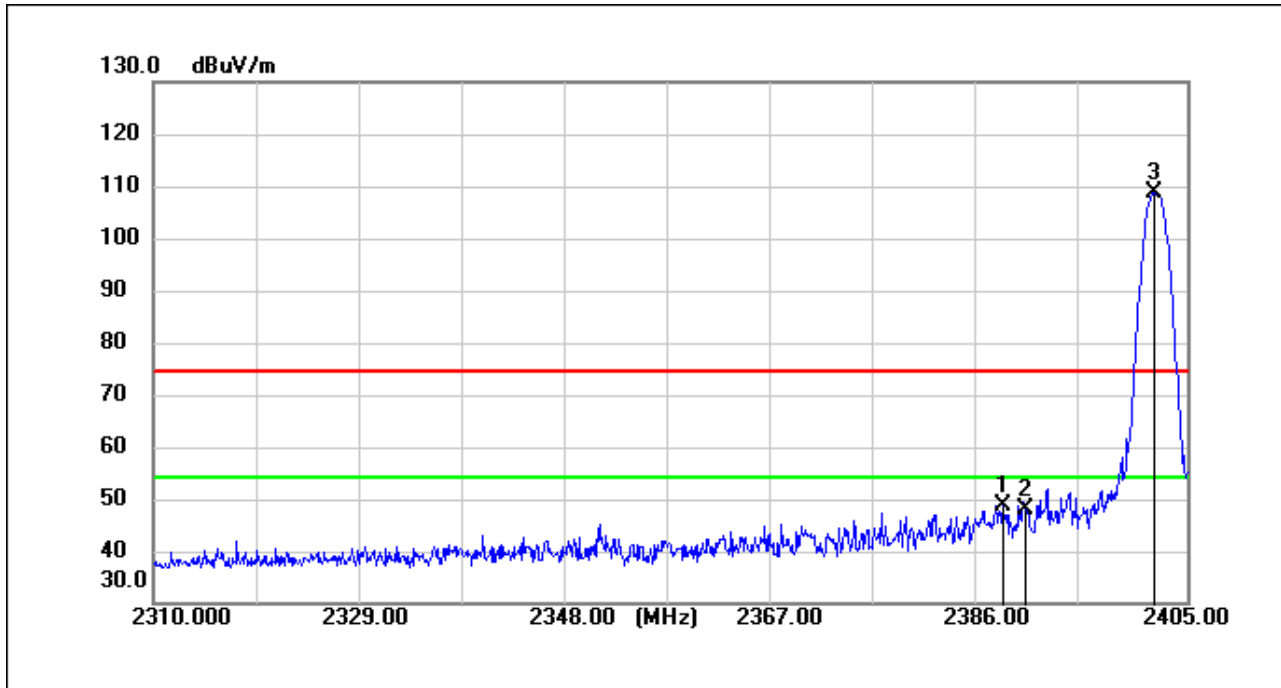
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level 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 $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

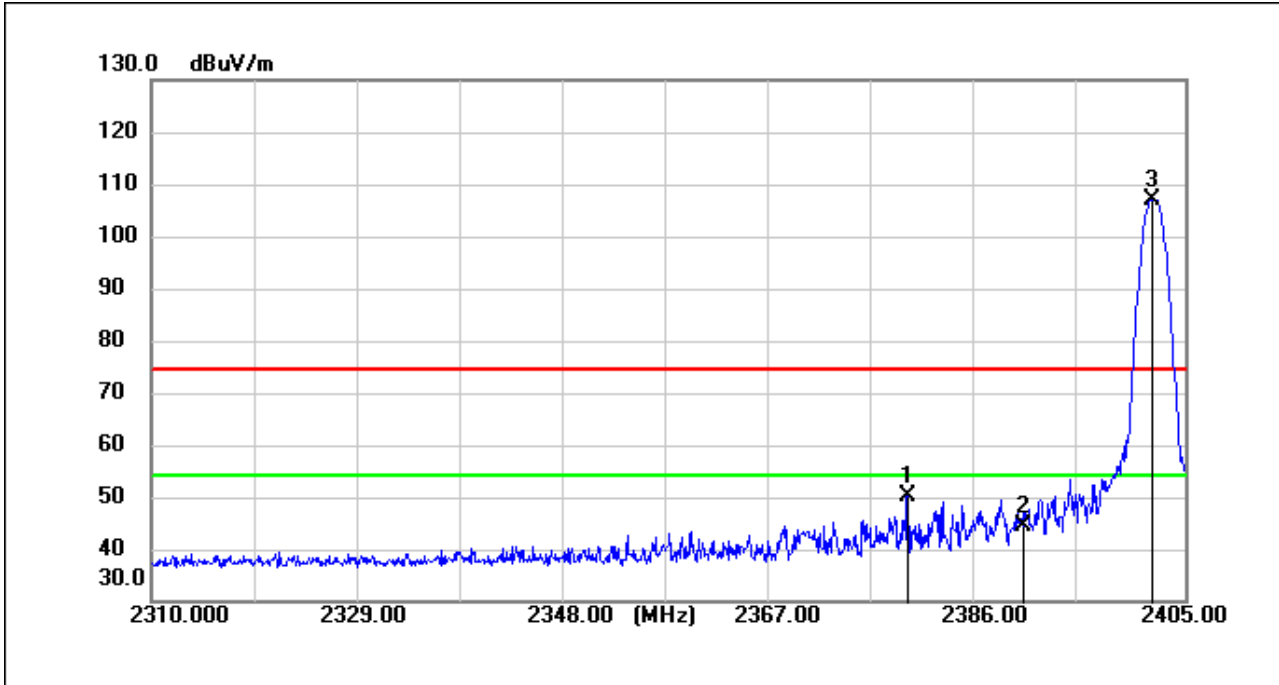
Left earbud

BT_DH5_TX_CH_00_Horizontal_Peak



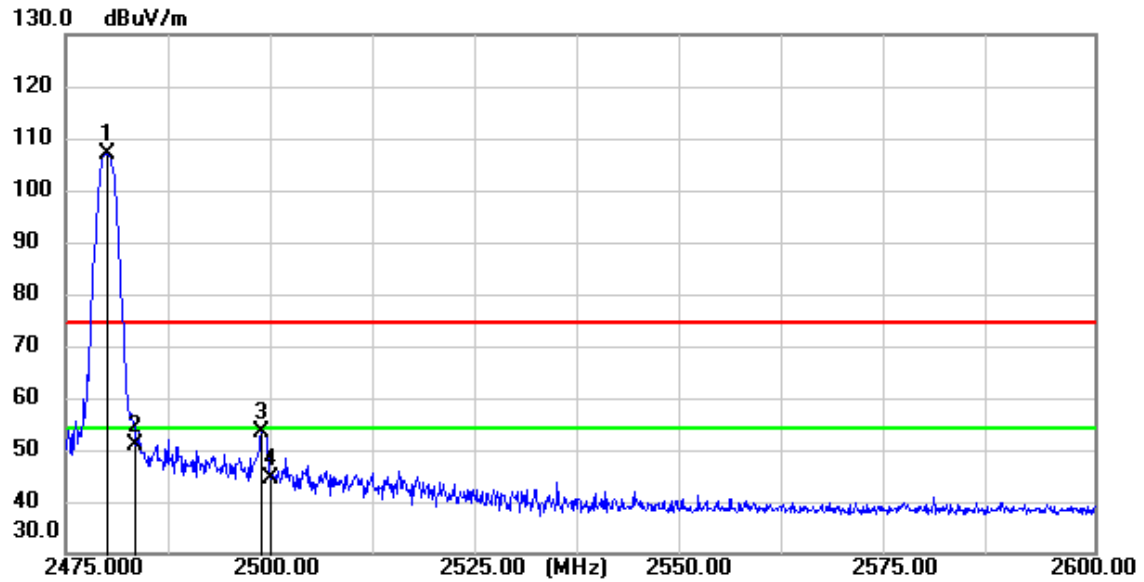
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.090	49.68	-0.80	48.88	74.00	-25.12	peak
2	2390.000	48.82	-0.79	48.03	74.00	-25.97	peak
3	2402.055	109.34	-0.73	108.61	74.00	34.61	peak

BT_DH5_TX_CH_00_Vertical_Peak



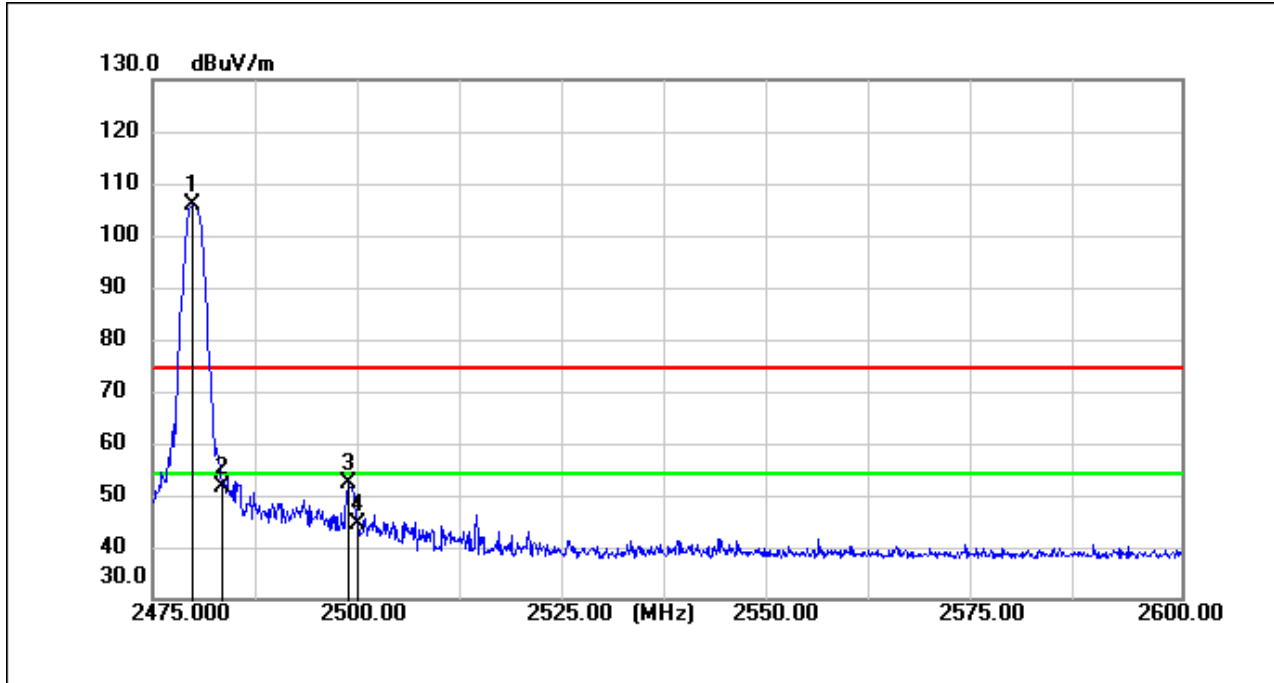
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2379.540	51.16	-0.84	50.32	74.00	-23.68	peak
2	2390.000	45.14	-0.79	44.35	74.00	-29.65	peak
3	2401.960	107.69	-0.73	106.96	74.00	32.96	peak

BT_DH5_TX_CH_78_Horizontal_Peak



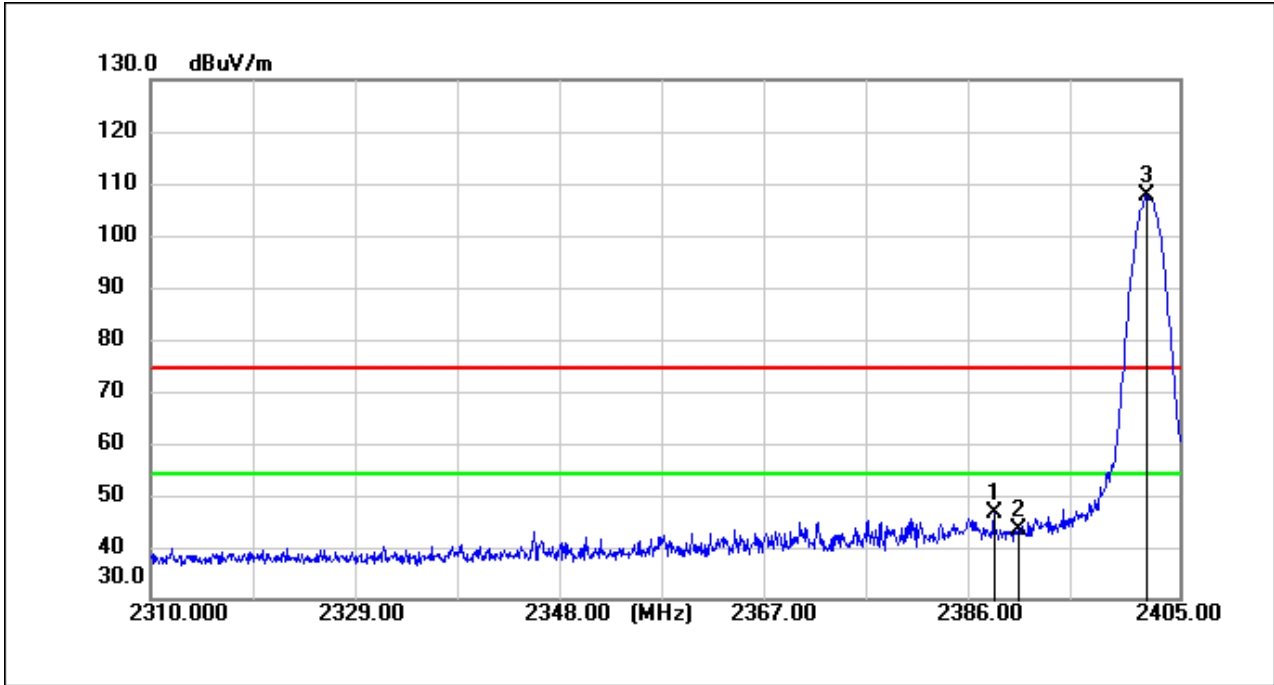
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.125	107.29	-0.34	106.95	74.00	32.95	peak
2	2483.500	51.24	-0.33	50.91	74.00	-23.09	peak
3	2498.875	53.71	-0.24	53.47	74.00	-20.53	peak
4	2500.000	44.67	-0.24	44.43	74.00	-29.57	peak

BT_DH5_TX_CH_78_Vertical_Peak



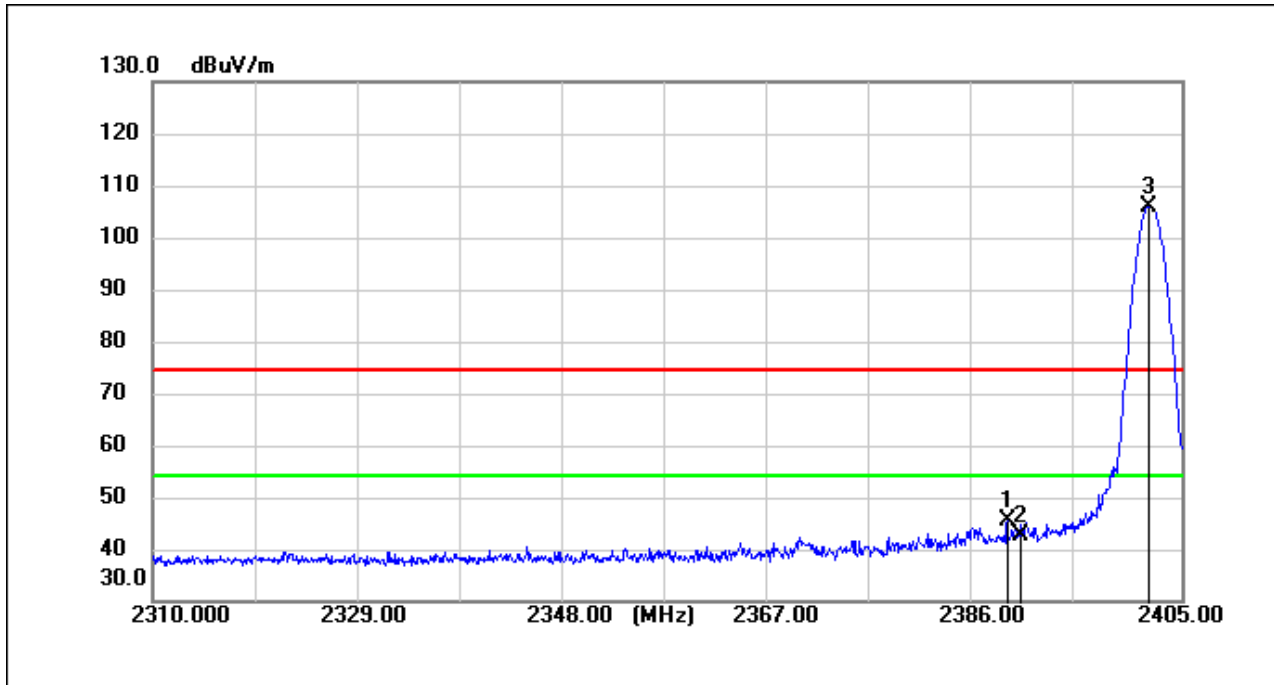
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2479.875	106.28	-0.34	105.94	74.00	31.94	peak
2	2483.500	51.90	-0.33	51.57	74.00	-22.43	peak
3	2498.875	52.53	-0.24	52.29	74.00	-21.71	peak
4	2500.000	44.82	-0.24	44.58	74.00	-29.42	peak

BT_2DH5_TX_CH_00_Horizontal_Peak



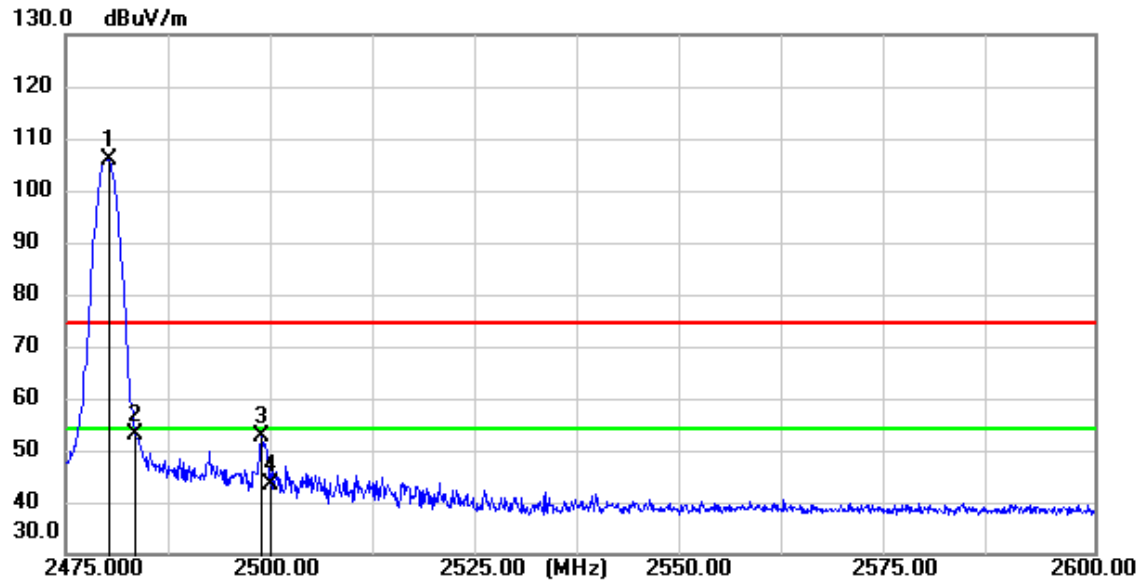
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.900	47.25	-0.80	46.45	74.00	-27.55	peak
2	2390.000	44.02	-0.79	43.23	74.00	-30.77	peak
3	2401.960	108.39	-0.73	107.66	74.00	33.66	peak

BT_2DH5_TX_CH_00_Vertical_Peak



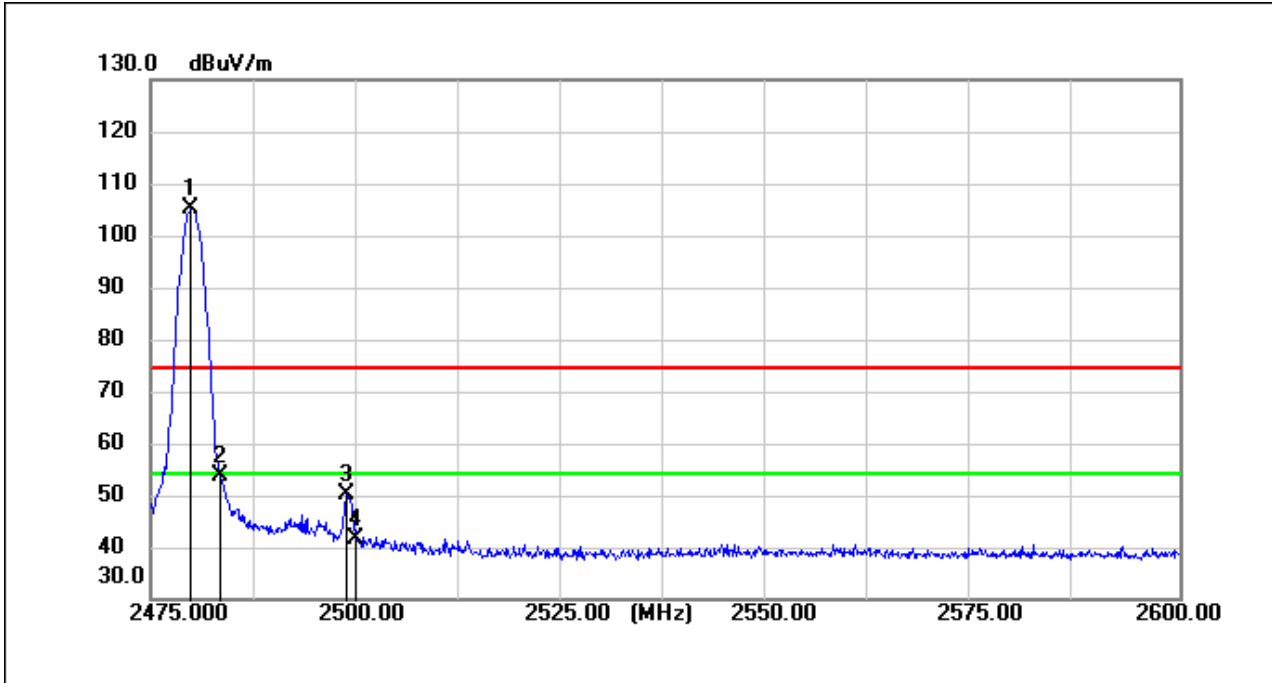
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.945	46.42	-0.79	45.63	74.00	-28.37	peak
2	2390.000	43.56	-0.79	42.77	74.00	-31.23	peak
3	2401.960	106.73	-0.73	106.00	74.00	32.00	peak

BT_2DH5_TX_CH_78_Horizontal_Peak



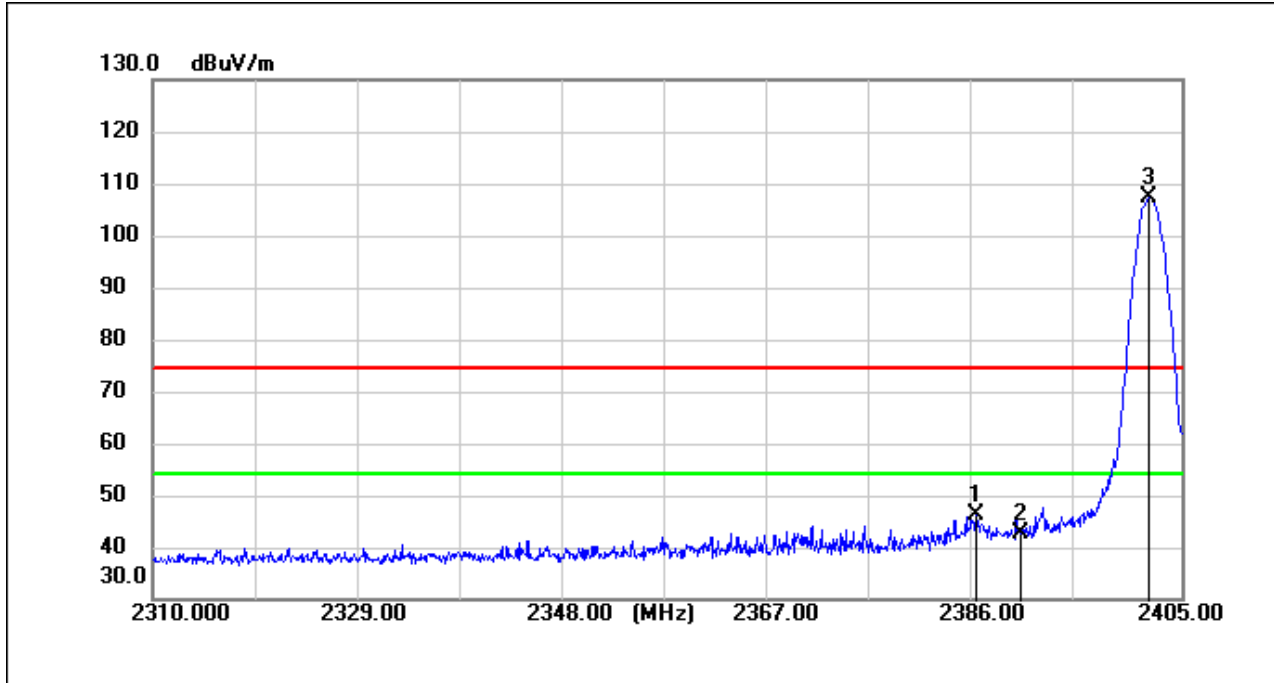
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.250	106.36	-0.34	106.02	74.00	32.02	peak
2	2483.500	53.32	-0.33	52.99	74.00	-21.01	peak
3	2498.750	52.87	-0.25	52.62	74.00	-21.38	peak
4	2500.000	43.59	-0.24	43.35	74.00	-30.65	peak

BT_2DH5_TX_CH_78_Vertical_Peak



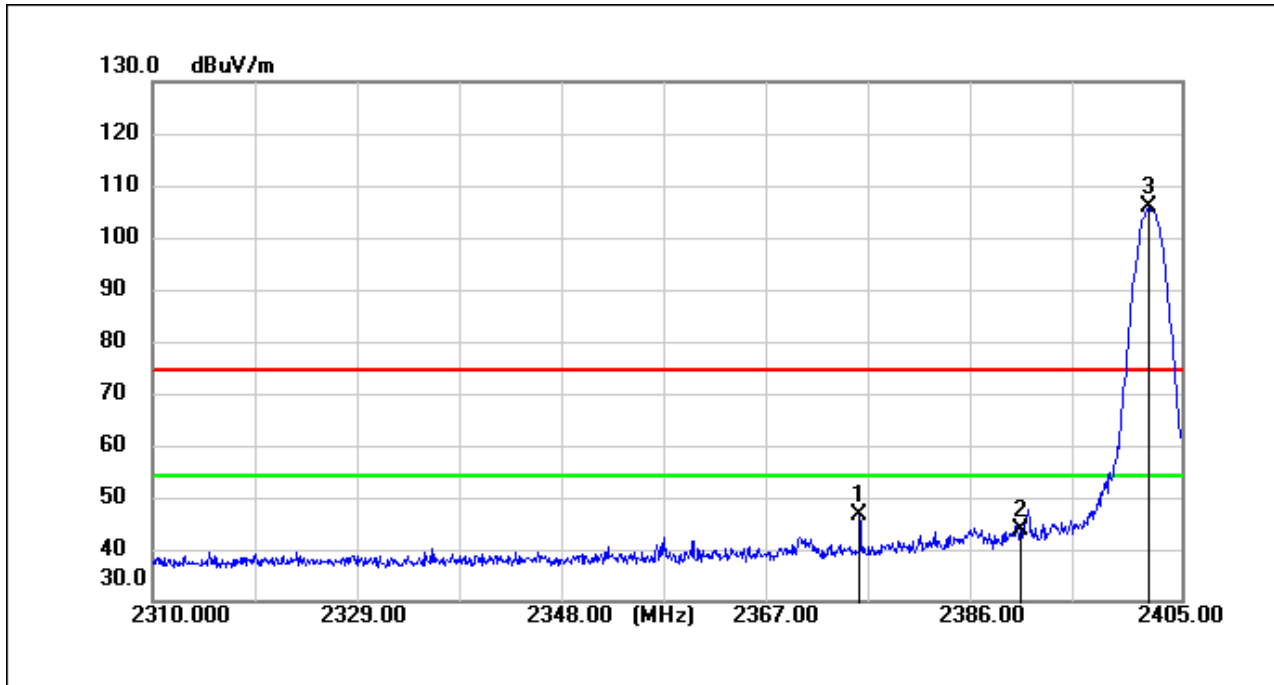
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2479.875	105.35	-0.34	105.01	74.00	31.01	peak
2	2483.500	53.95	-0.33	53.62	74.00	-20.38	peak
3	2498.875	50.25	-0.24	50.01	74.00	-23.99	peak
4	2500.000	41.86	-0.24	41.62	74.00	-32.38	peak

BT_3DH5_TX_CH_00_Horizontal_Peak



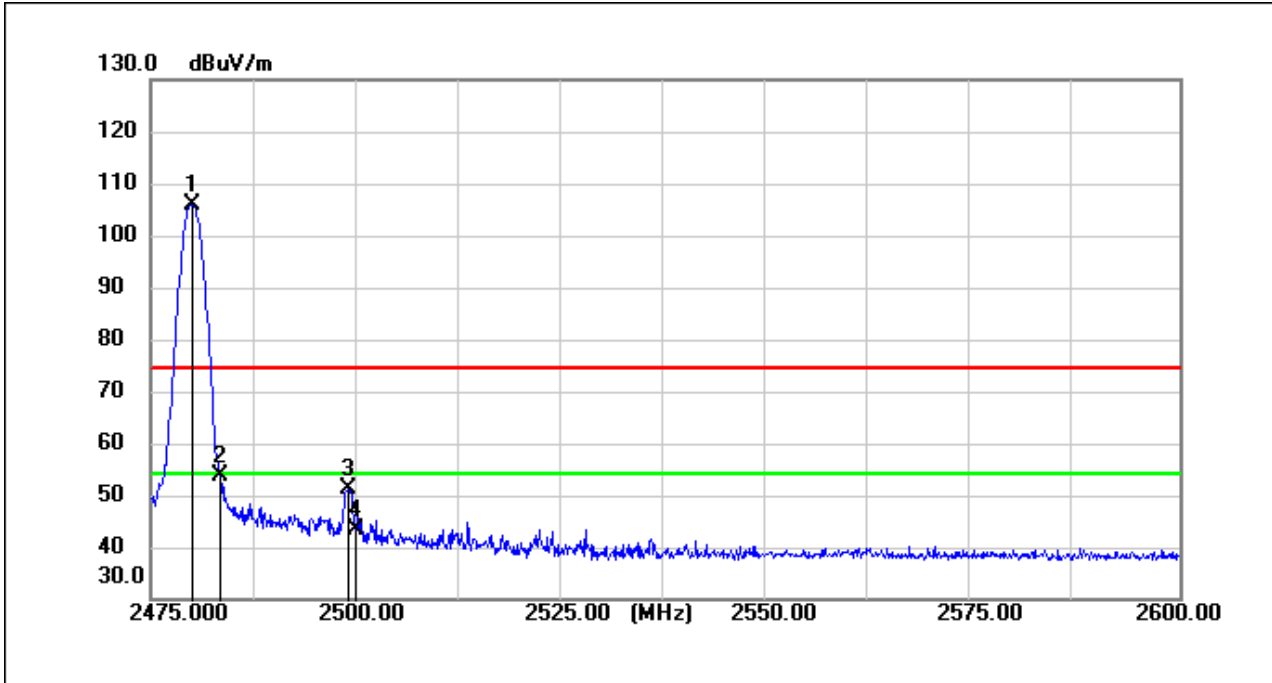
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.000	47.02	-0.80	46.22	74.00	-27.78	peak
2	2390.000	43.35	-0.79	42.56	74.00	-31.44	peak
3	2402.055	108.18	-0.73	107.45	74.00	33.45	peak

BT_3DH5_TX_CH_00_Vertical_Peak



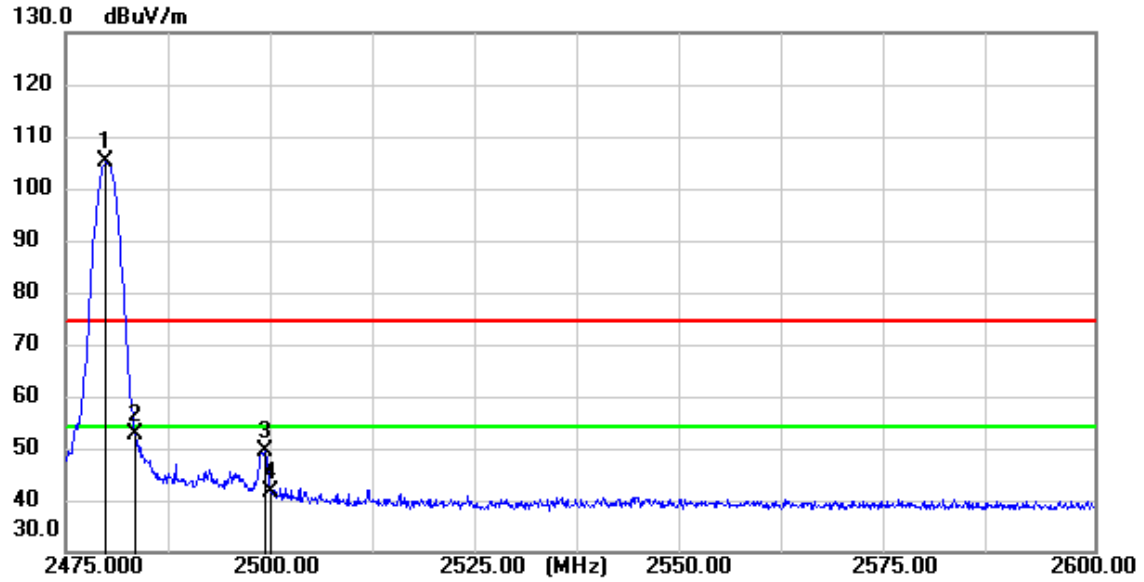
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2375.265	47.57	-0.86	46.71	74.00	-27.29	peak
2	2390.000	44.50	-0.79	43.71	74.00	-30.29	peak
3	2401.960	106.48	-0.73	105.75	74.00	31.75	peak

BT_3DH5_TX_CH_78_Horizontal_Peak



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.125	106.30	-0.34	105.96	74.00	31.96	peak
2	2483.500	53.96	-0.33	53.63	74.00	-20.37	peak
3	2499.000	51.45	-0.24	51.21	74.00	-22.79	peak
4	2500.000	43.56	-0.24	43.32	74.00	-30.68	peak

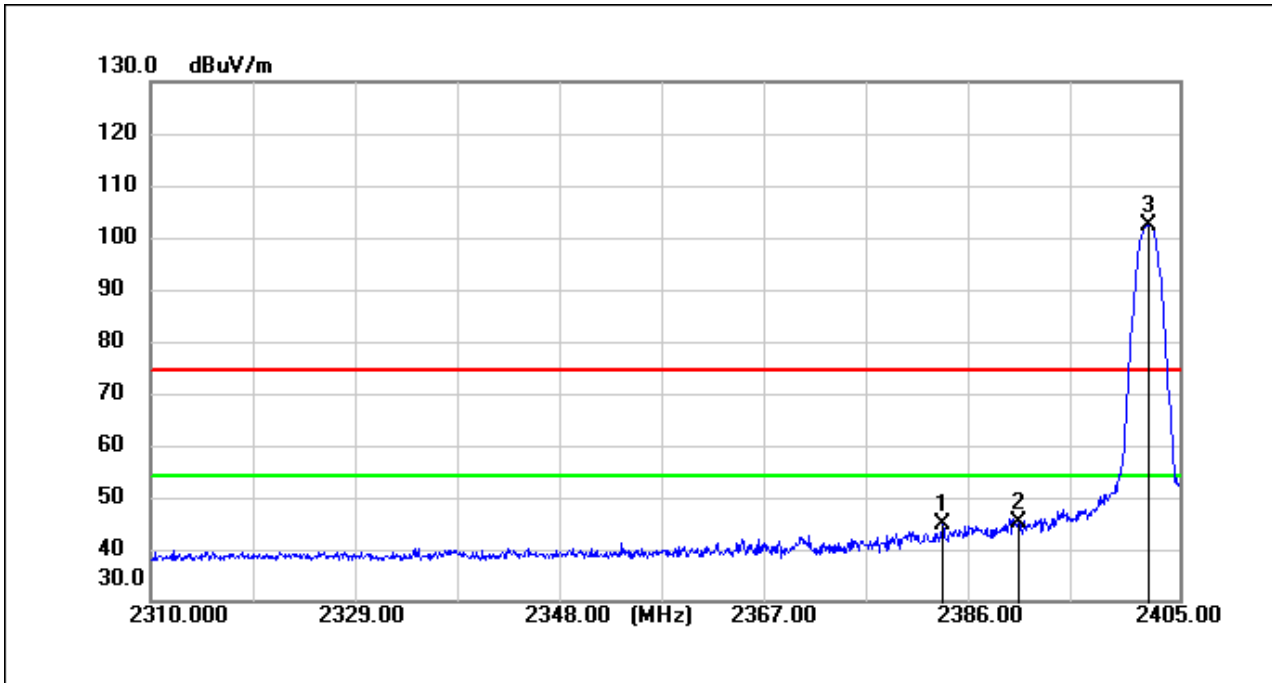
BT_3DH5_TX_CH_78_Vertical_Peak



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2479.875	105.42	-0.34	105.08	74.00	31.08	peak
2	2483.500	52.84	-0.33	52.51	74.00	-21.49	peak
3	2499.250	49.70	-0.24	49.46	74.00	-24.54	peak
4	2500.000	41.79	-0.24	41.55	74.00	-32.45	peak

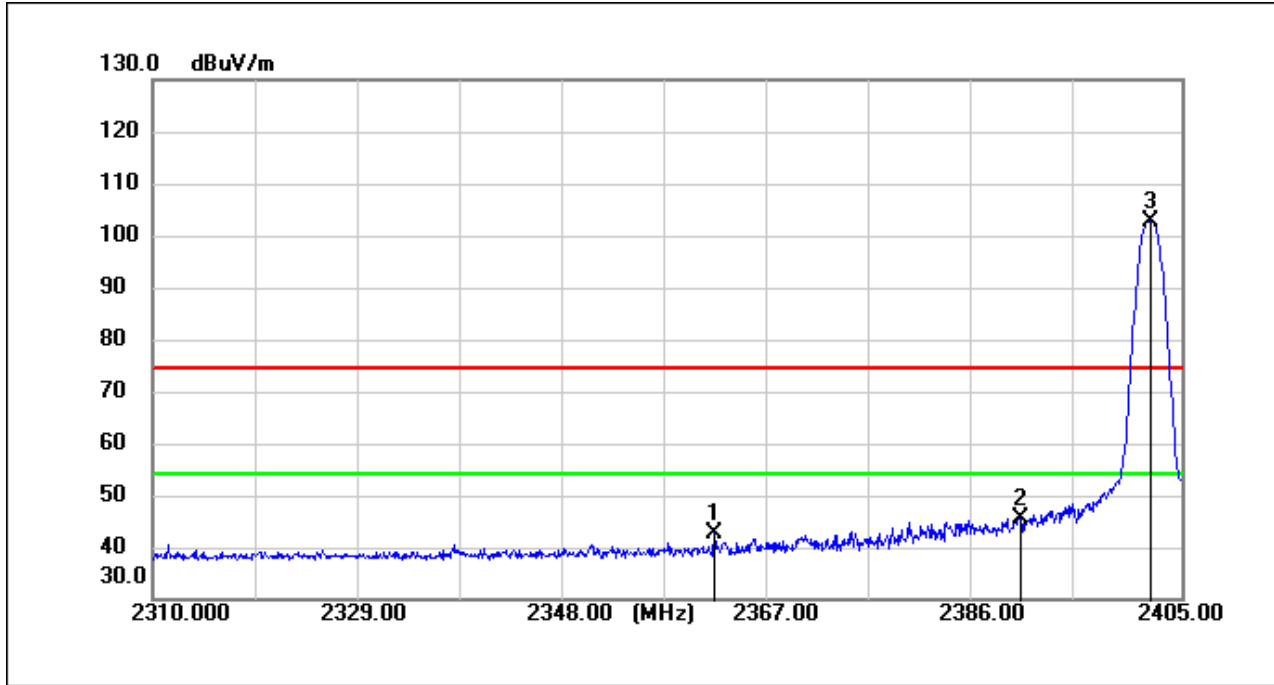
Right earbud

BT_DH5_TX_CH_00_Horizontal_Peak



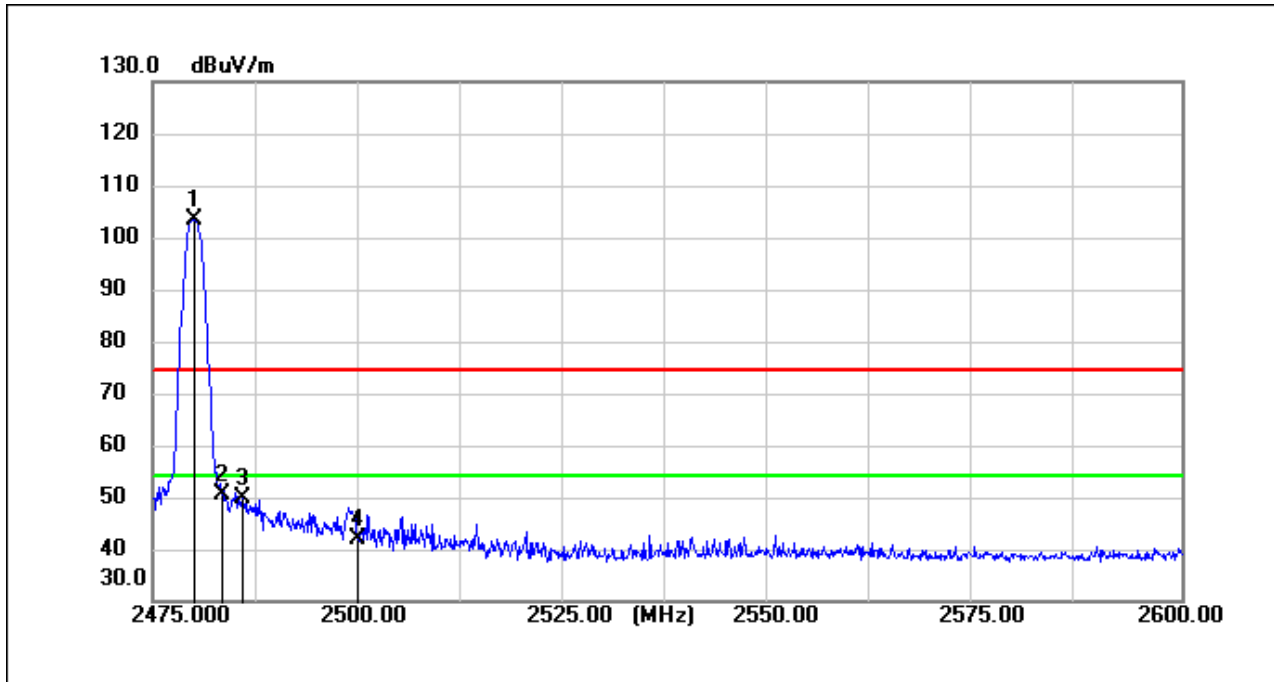
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2383.150	45.57	-0.83	44.74	74.00	-29.26	peak
2	2390.000	45.85	-0.79	45.06	74.00	-28.94	peak
3	2402.245	103.05	-0.73	102.32	74.00	28.32	peak

BT_DH5_TX_CH_00_Vertical_Peak



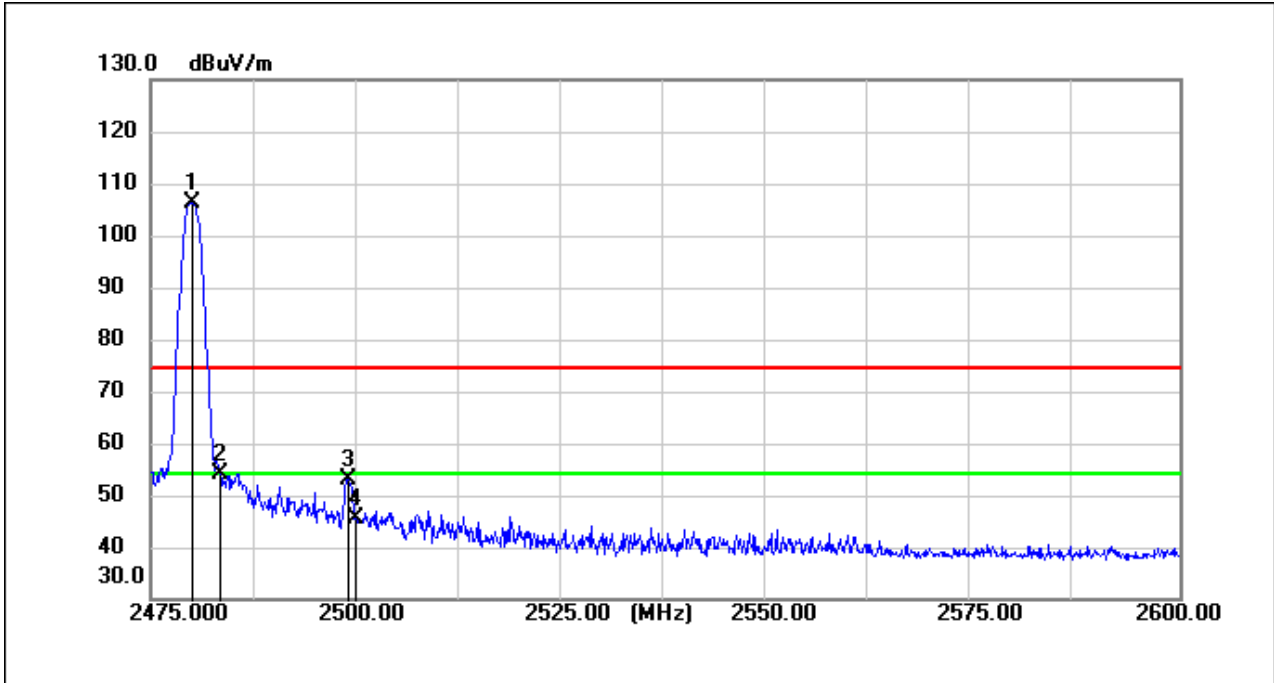
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2361.870	43.50	-0.93	42.57	74.00	-31.43	peak
2	2390.000	46.42	-0.79	45.63	74.00	-28.37	peak
3	2402.245	103.56	-0.73	102.83	74.00	28.83	peak

BT_DH5_TX_CH_78_Horizontal_Peak



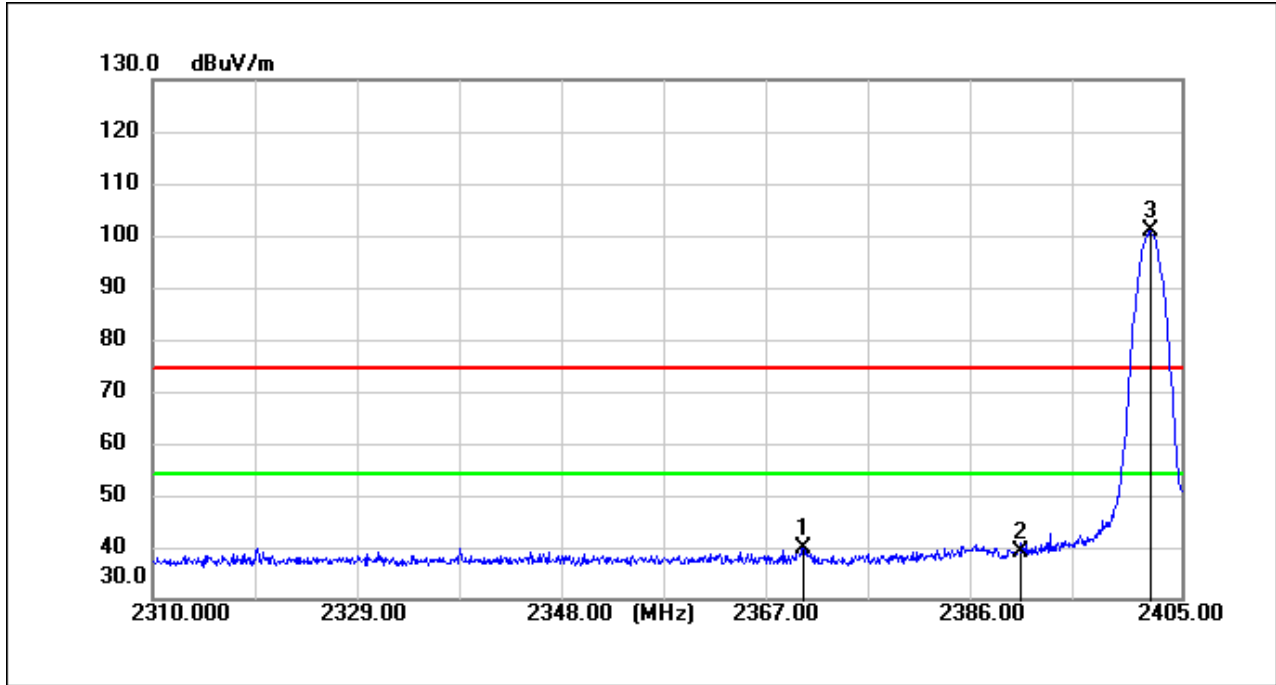
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.125	103.87	-0.34	103.53	74.00	29.53	peak
2	2483.500	50.79	-0.33	50.46	74.00	-23.54	peak
3	2485.875	50.25	-0.31	49.94	74.00	-24.06	peak
4	2500.000	42.23	-0.24	41.99	74.00	-32.01	peak

BT_DH5_TX_CH_78_Vertical_Peak



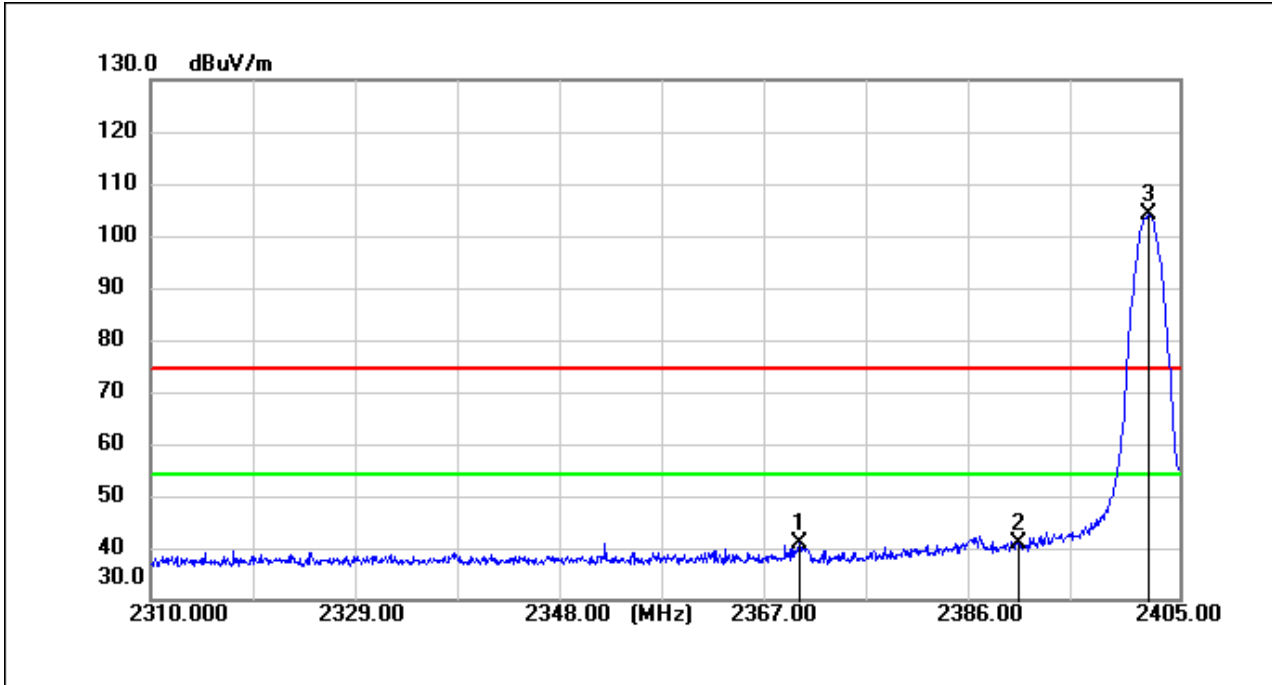
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.125	106.68	-0.34	106.34	74.00	32.34	peak
2	2483.500	54.29	-0.33	53.96	74.00	-20.04	peak
3	2499.125	53.29	-0.24	53.05	74.00	-20.95	peak
4	2500.000	45.63	-0.24	45.39	74.00	-28.61	peak

BT_2DH5_TX_CH_00_Horizontal_Peak



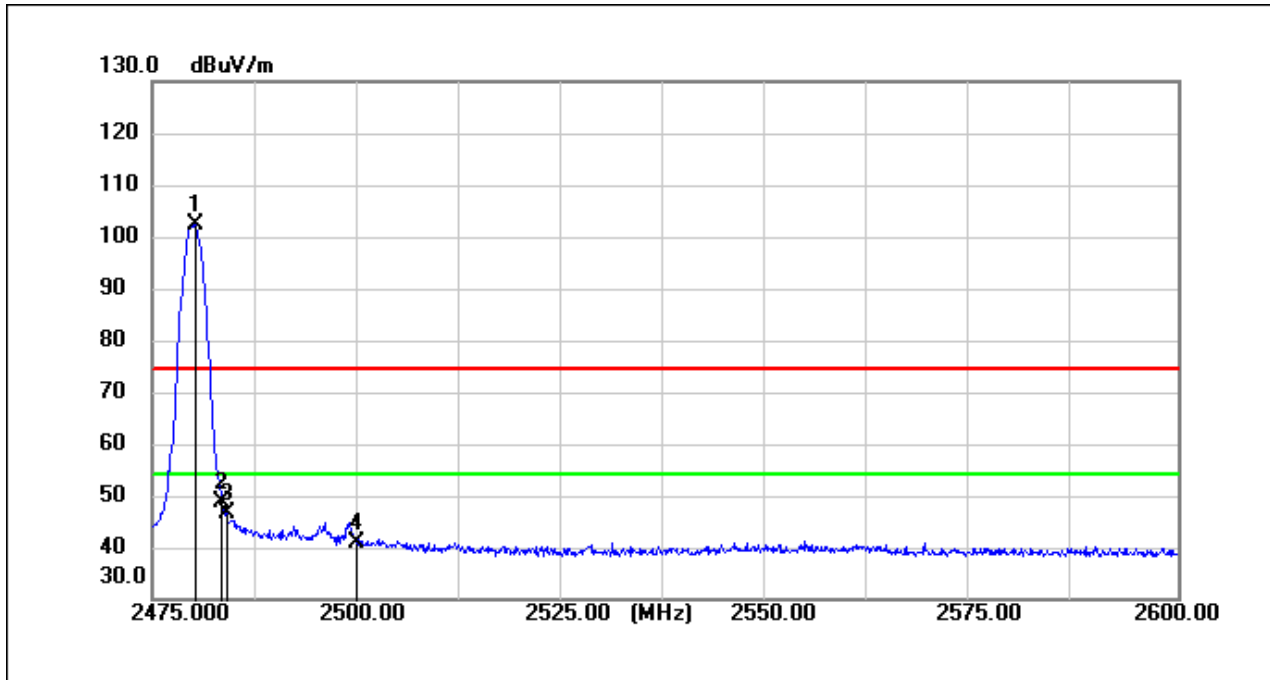
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2370.040	40.88	-0.89	39.99	74.00	-34.01	peak
2	2390.000	39.75	-0.79	38.96	74.00	-35.04	peak
3	2402.150	101.60	-0.73	100.87	74.00	26.87	peak

BT_2DH5_TX_CH_00_Vertical_Peak



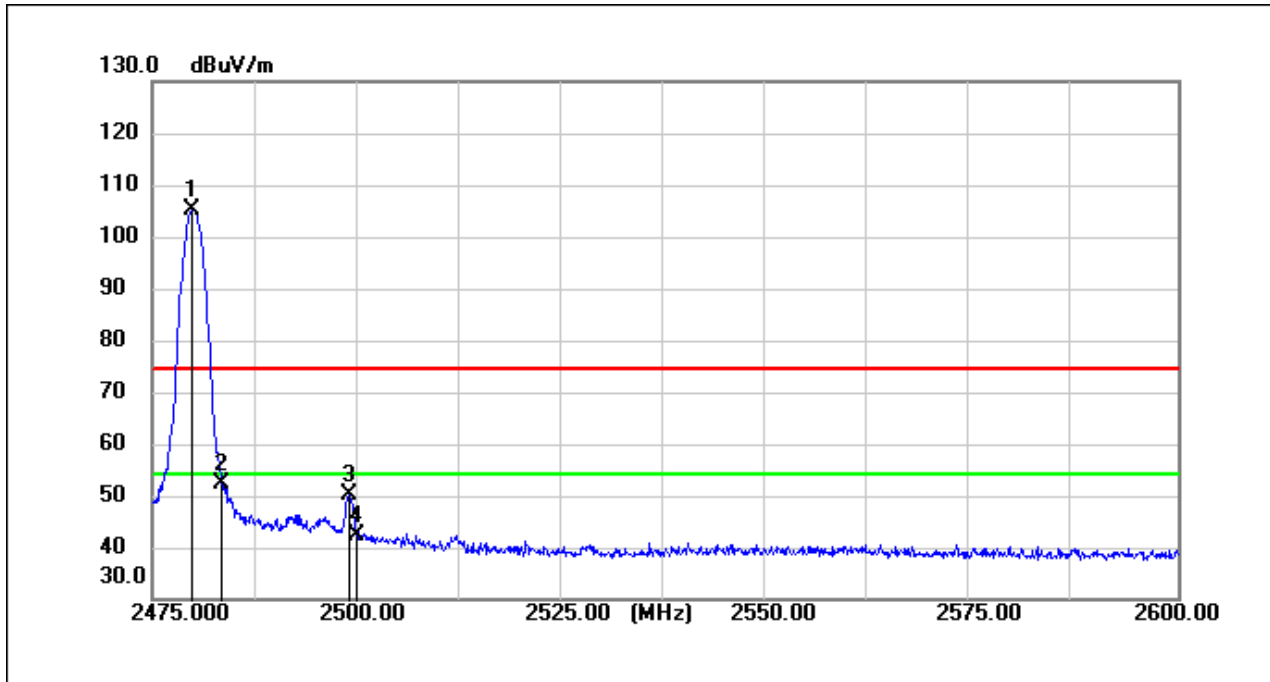
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2369.850	41.74	-0.89	40.85	74.00	-33.15	peak
2	2390.000	41.85	-0.79	41.06	74.00	-32.94	peak
3	2402.150	104.84	-0.73	104.11	74.00	30.11	peak

BT_2DH5_TX_CH_78_Horizontal_Peak



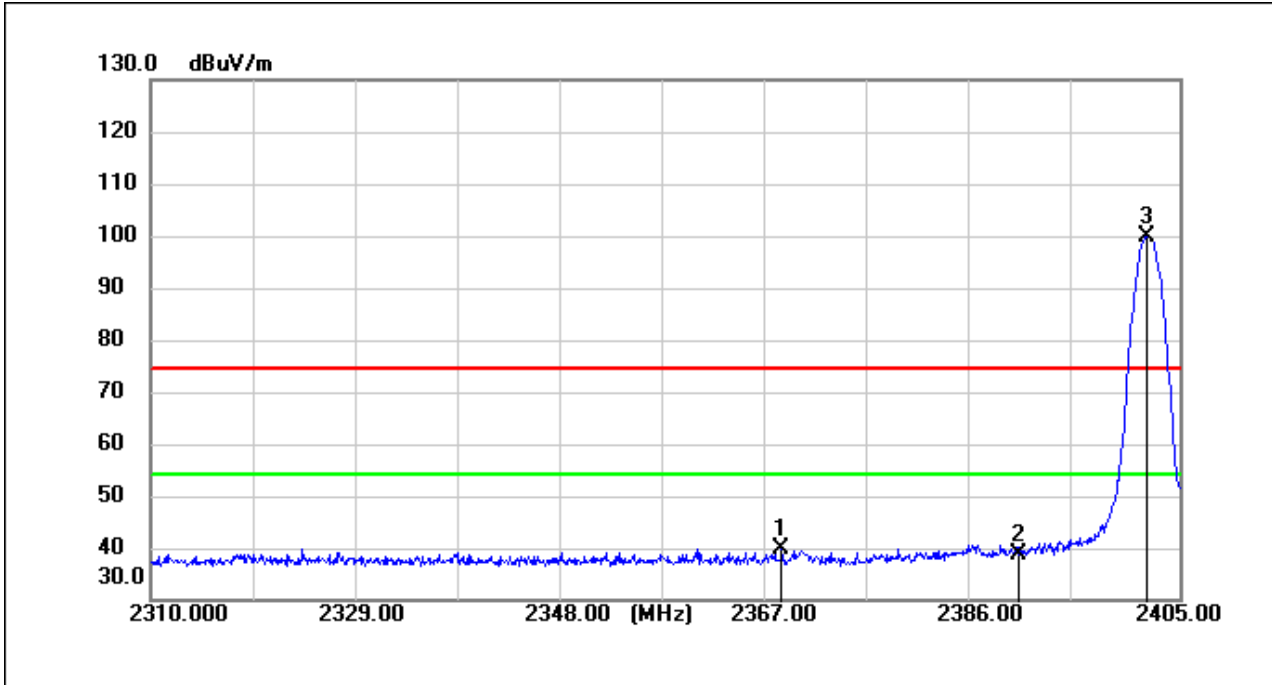
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.250	102.54	-0.34	102.20	74.00	28.20	peak
2	2483.500	49.17	-0.33	48.84	74.00	-25.16	peak
3	2484.125	46.82	-0.32	46.50	74.00	-27.50	peak
4	2500.000	41.28	-0.24	41.04	74.00	-32.96	peak

BT_2DH5_TX_CH_78_Vertical_Peak



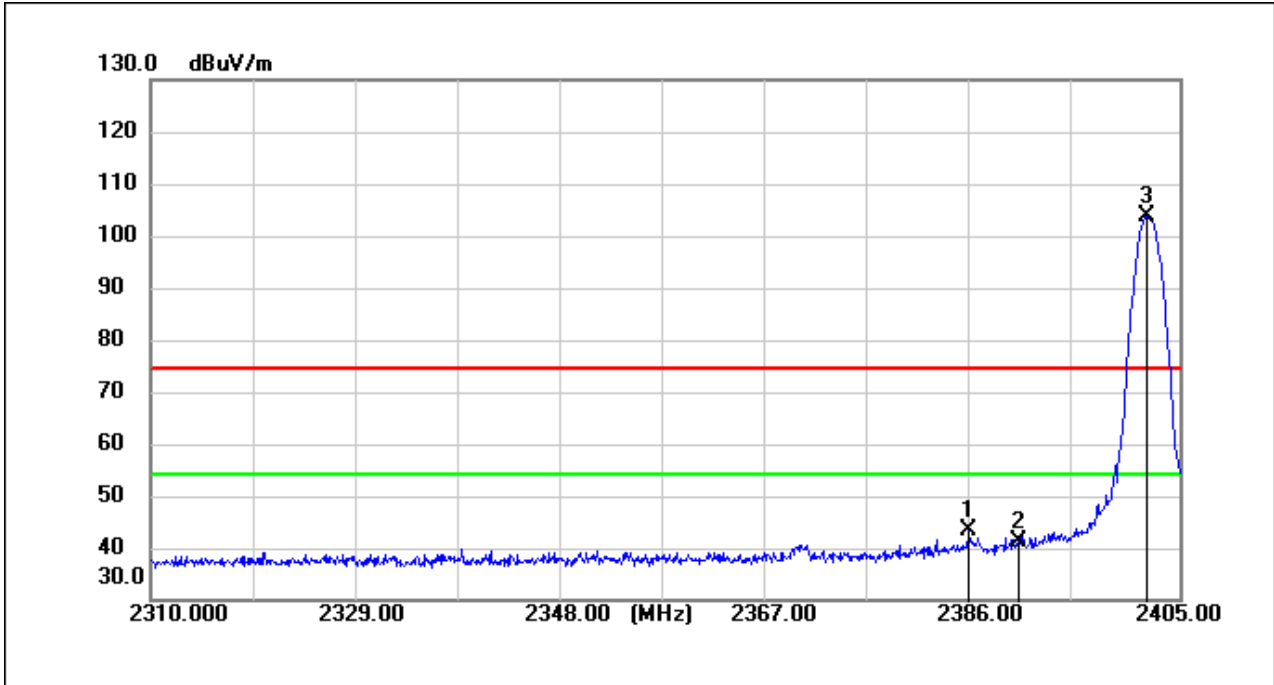
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2479.875	105.37	-0.34	105.03	74.00	31.03	peak
2	2483.500	52.55	-0.33	52.22	74.00	-21.78	peak
3	2499.125	50.57	-0.24	50.33	74.00	-23.67	peak
4	2500.000	42.68	-0.24	42.44	74.00	-31.56	peak

BT_3DH5_TX_CH_00_Horizontal_Peak



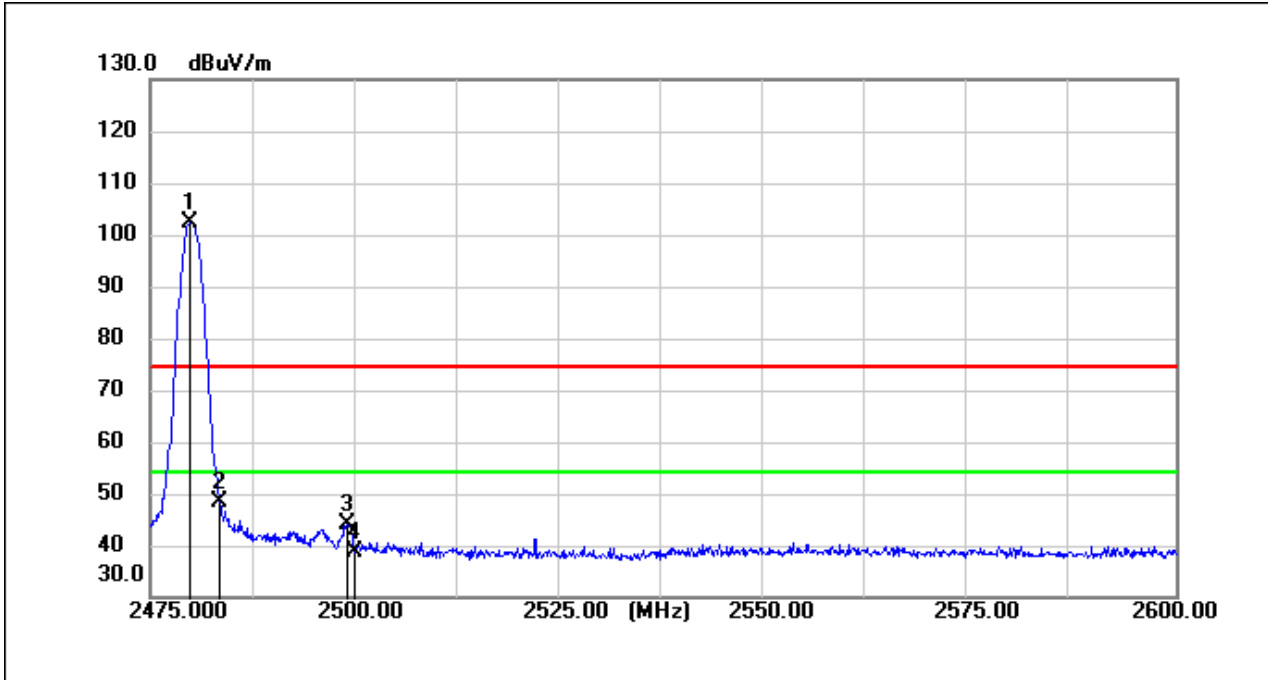
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2368.235	40.66	-0.90	39.76	74.00	-34.24	peak
2	2390.000	39.66	-0.79	38.87	74.00	-35.13	peak
3	2401.960	100.69	-0.73	99.96	74.00	25.96	peak

BT_3DH5_TX_CH_00_Vertical_Peak



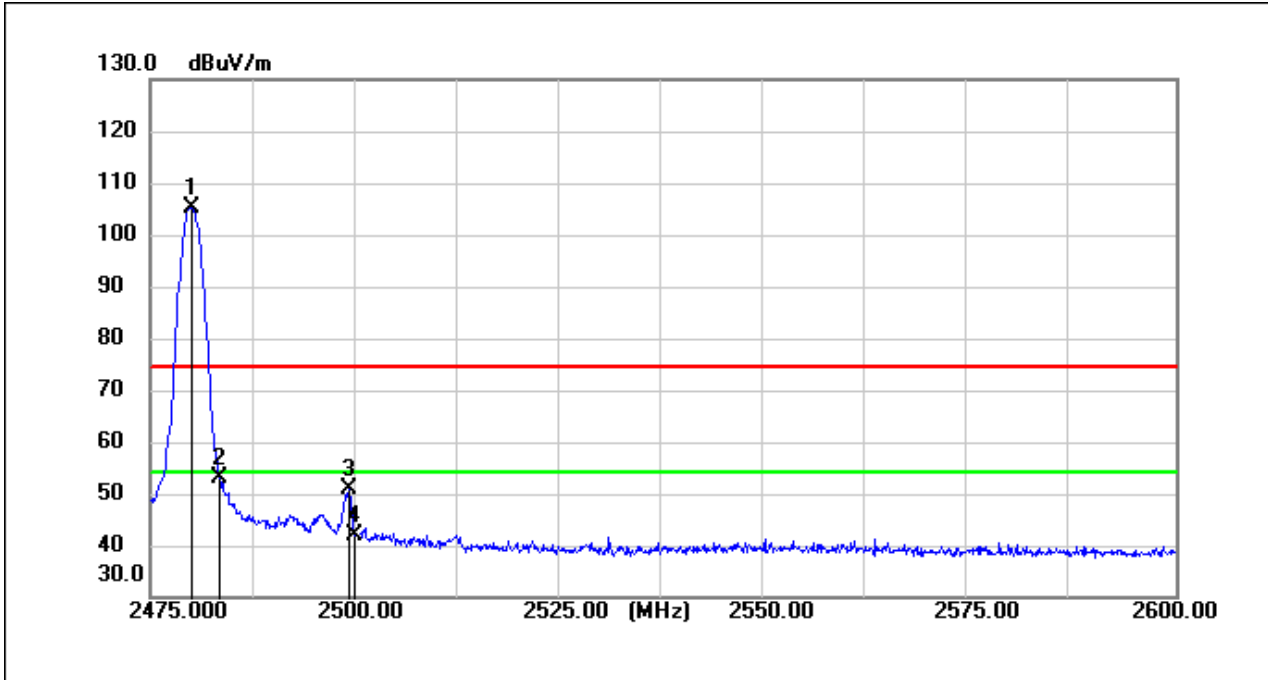
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.620	44.25	-0.81	43.44	74.00	-30.56	peak
2	2390.000	41.92	-0.79	41.13	74.00	-32.87	peak
3	2401.960	104.39	-0.73	103.66	74.00	29.66	peak

BT_3DH5_TX_CH_78_Horizontal_Peak



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2479.875	102.57	-0.34	102.23	74.00	28.23	peak
2	2483.500	48.67	-0.33	48.34	74.00	-25.66	peak
3	2499.125	44.41	-0.24	44.17	74.00	-29.83	peak
4	2500.000	39.16	-0.24	38.92	74.00	-35.08	peak

BT_3DH5_TX_CH_78_Vertical_Peak



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.000	105.39	-0.34	105.05	74.00	31.05	peak
2	2483.500	53.29	-0.33	52.96	74.00	-21.04	peak
3	2499.250	50.97	-0.24	50.73	74.00	-23.27	peak
4	2500.000	42.08	-0.24	41.84	74.00	-32.16	peak

7.2 Radiated Spurious Emissions Below 1GHz

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

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

Measurement Distance: 3M

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

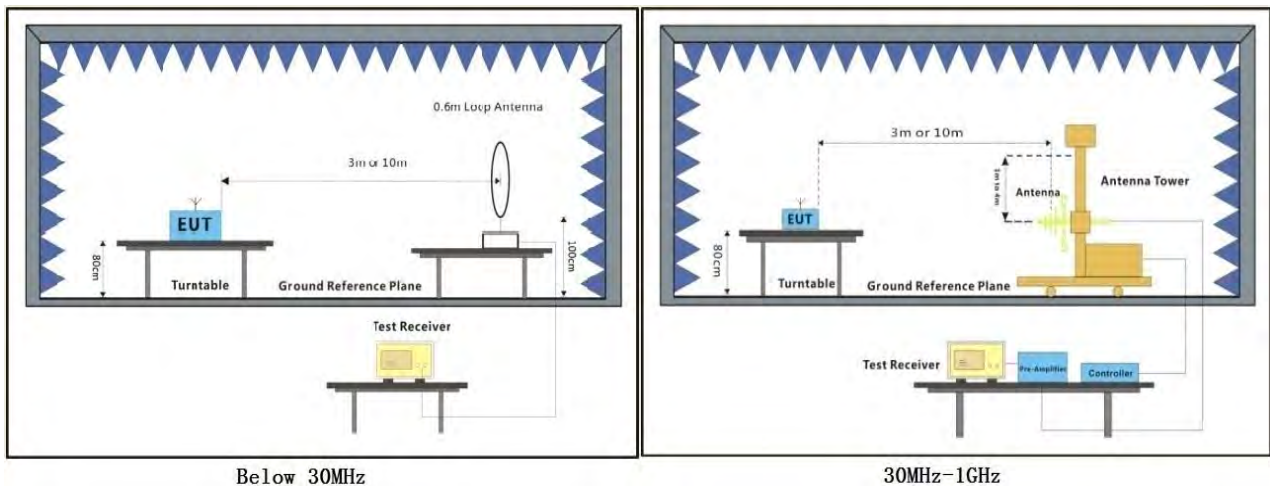
Humidity: 45.6 % RH

Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

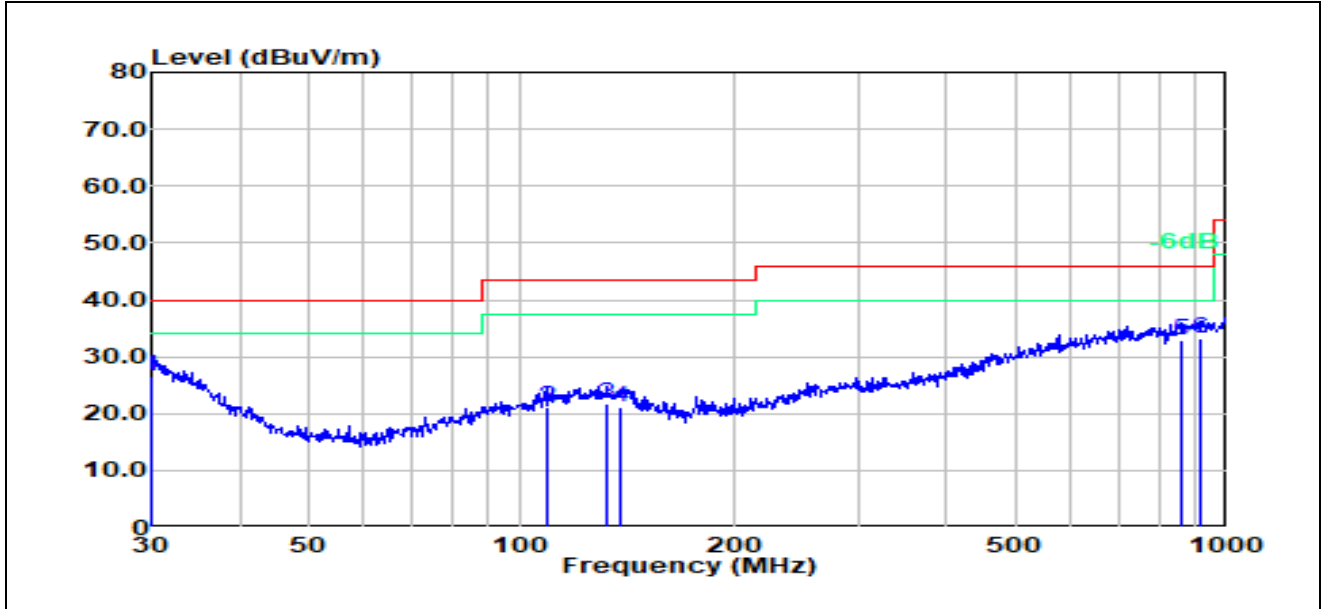
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which 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 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. $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$
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.

Test Mode: 00; Polarity: Horizontal

Test Data :



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.11	1.41	25.04	26.45	40.00	-13.55	100	64	QP
2	108.65	1.78	19.34	21.12	43.50	-22.38	100	267	QP
3	132.22	1.58	20.10	21.68	43.50	-21.82	100	64	QP
4	138.39	0.52	20.50	21.02	43.50	-22.48	100	204	QP
5	863.06	2.28	30.75	33.03	46.00	-12.97	100	217	QP
6	919.29	1.99	31.27	33.26	46.00	-12.74	100	133	QP

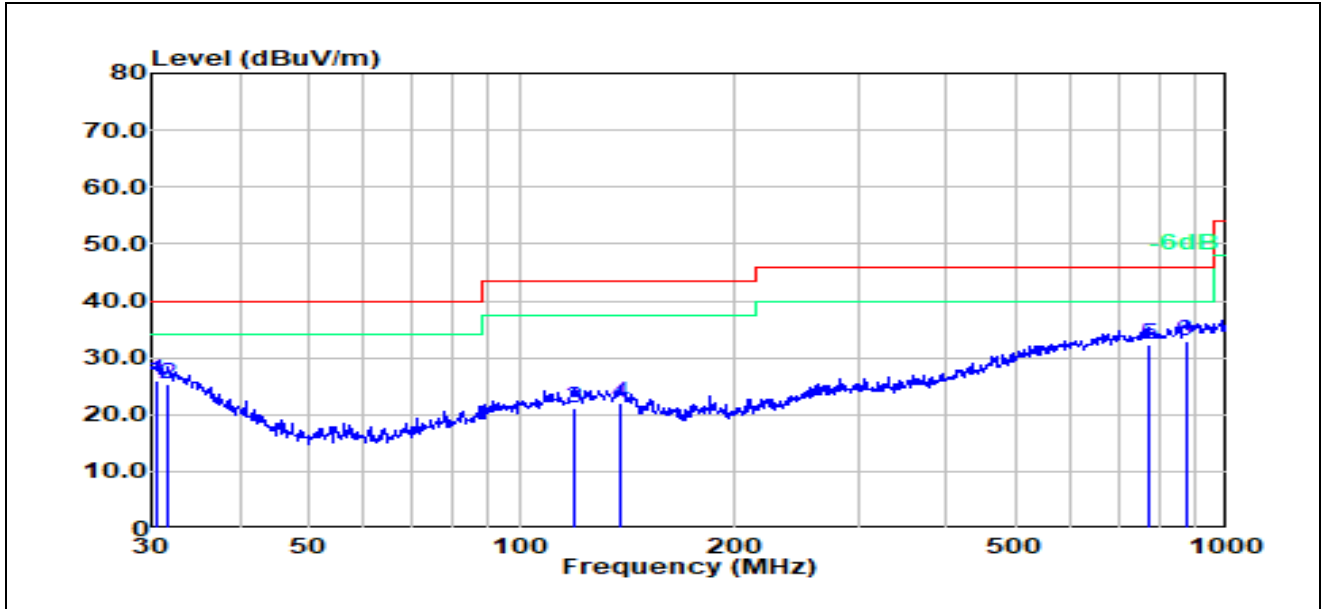


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Test Mode: 00; Polarity: Vertical

Test Data :



No.	Frequency (MHz)	Reading (dBUV)	Correct Factor(dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.53	1.32	24.70	26.02	40.00	-13.98	100	58	QP
2	31.73	1.85	23.60	25.45	40.00	-14.55	100	23	QP
3	119.44	0.94	20.25	21.19	43.50	-22.31	100	250	QP
4	137.90	1.47	20.55	22.02	43.50	-21.48	100	133	QP
5	776.88	1.88	30.30	32.18	46.00	-13.82	100	223	QP
6	872.18	2.01	31.01	33.02	46.00	-12.98	100	10	QP

7.3 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3M

Limit:

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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

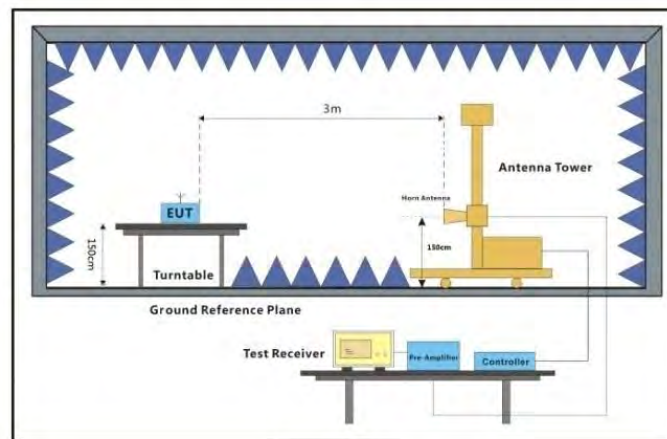
Humidity: 45.8 % RH

Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



Above 1GHz

7.3.4 Measurement Procedure and Data

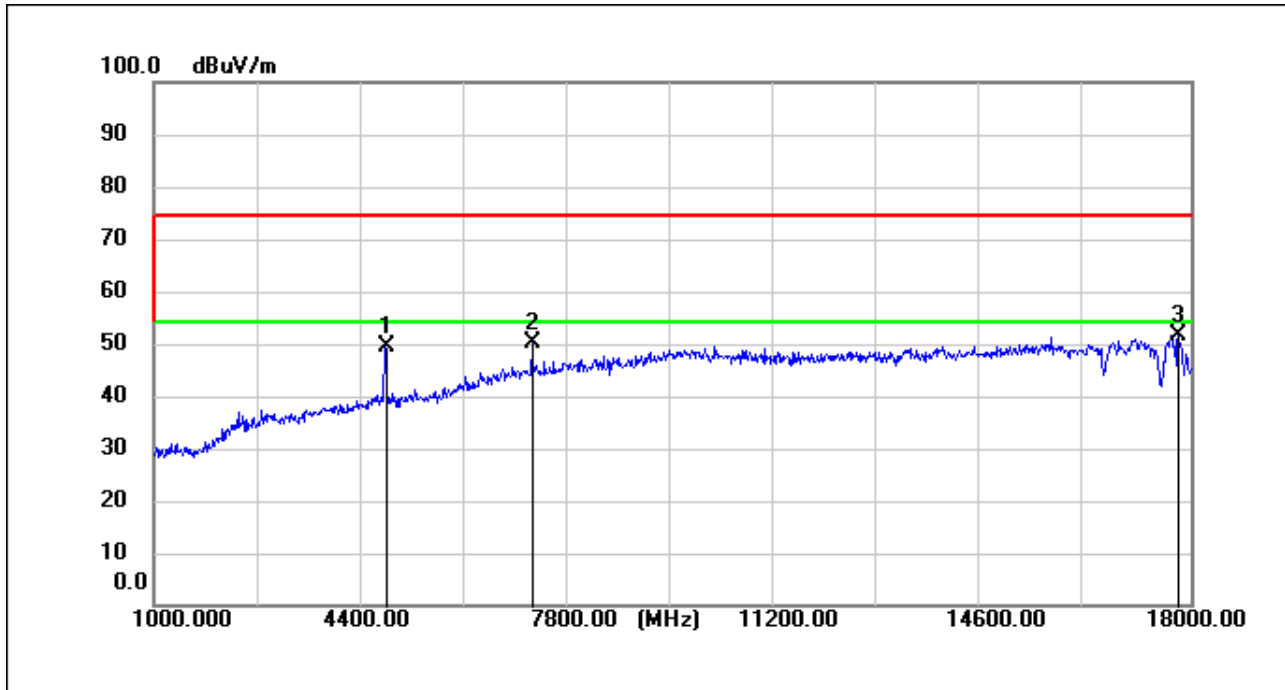
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was 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.

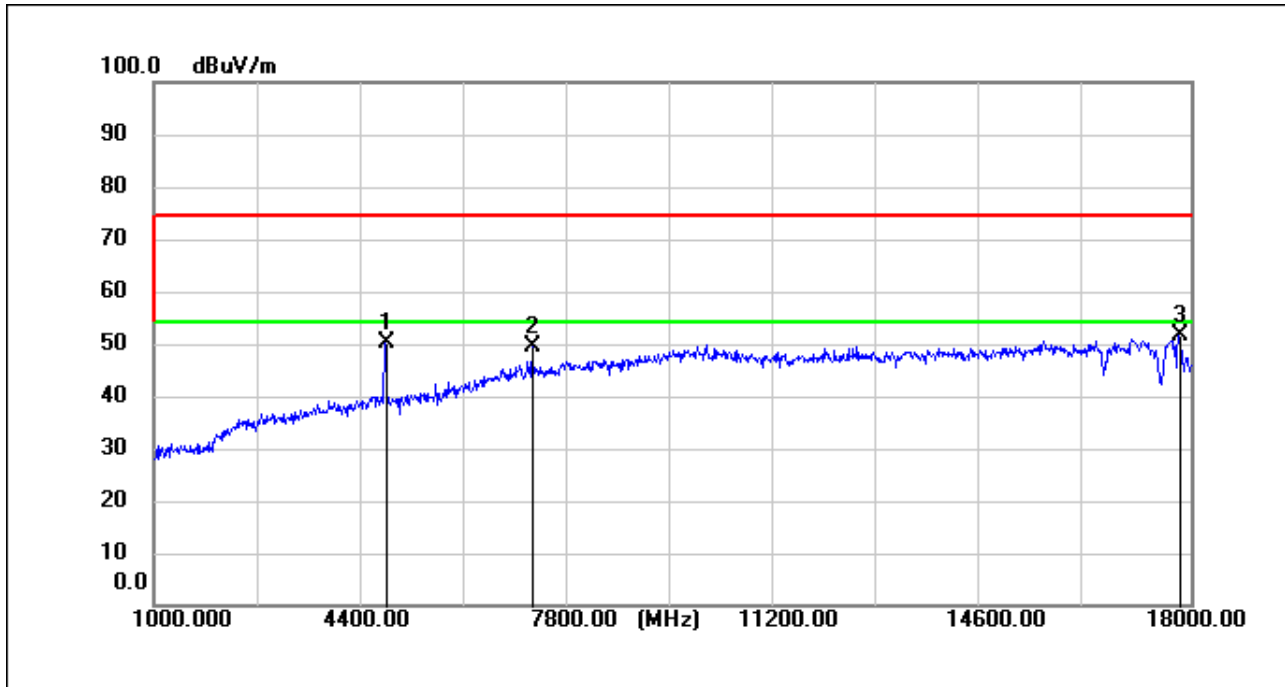
Left earbud

BT_DH5_TX_CH_00_Horizontal



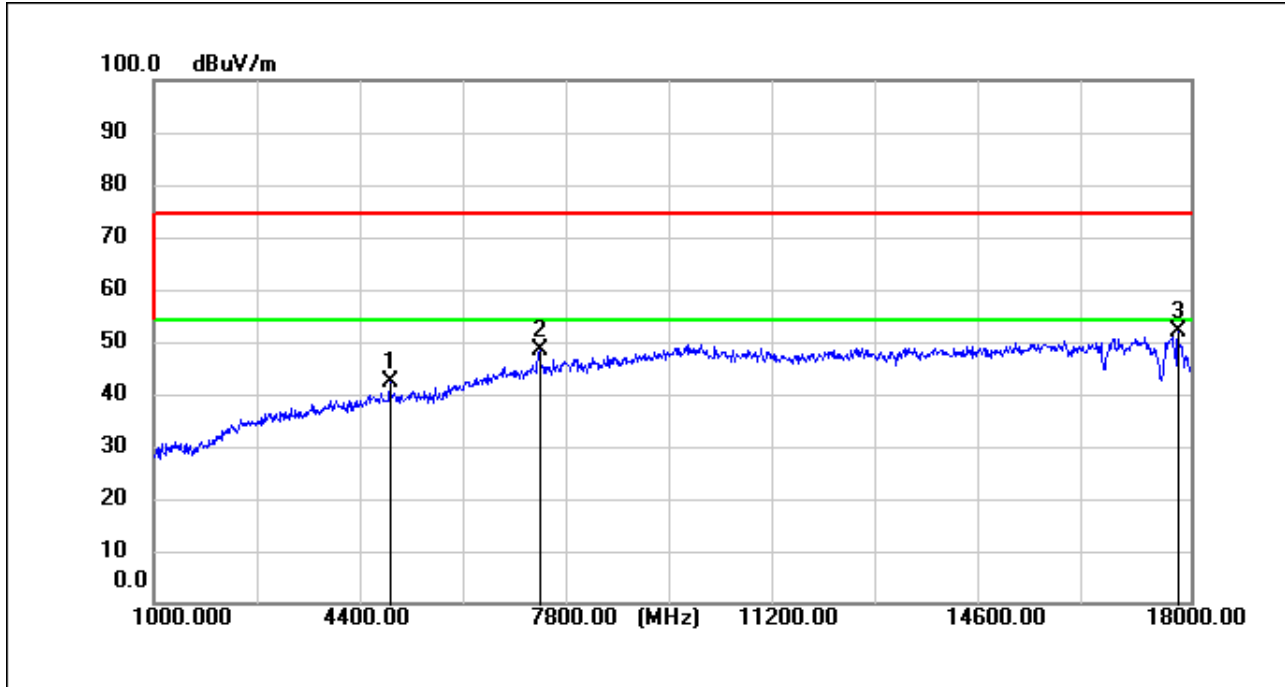
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4803.750	66.65	-17.01	49.64	74.00	-24.36	peak
2	7206.700	60.07	-10.04	50.03	74.00	-23.97	peak
3	17807.050	53.04	-1.35	51.69	74.00	-22.31	peak

BT_DH5_TX_CH_00_Verical



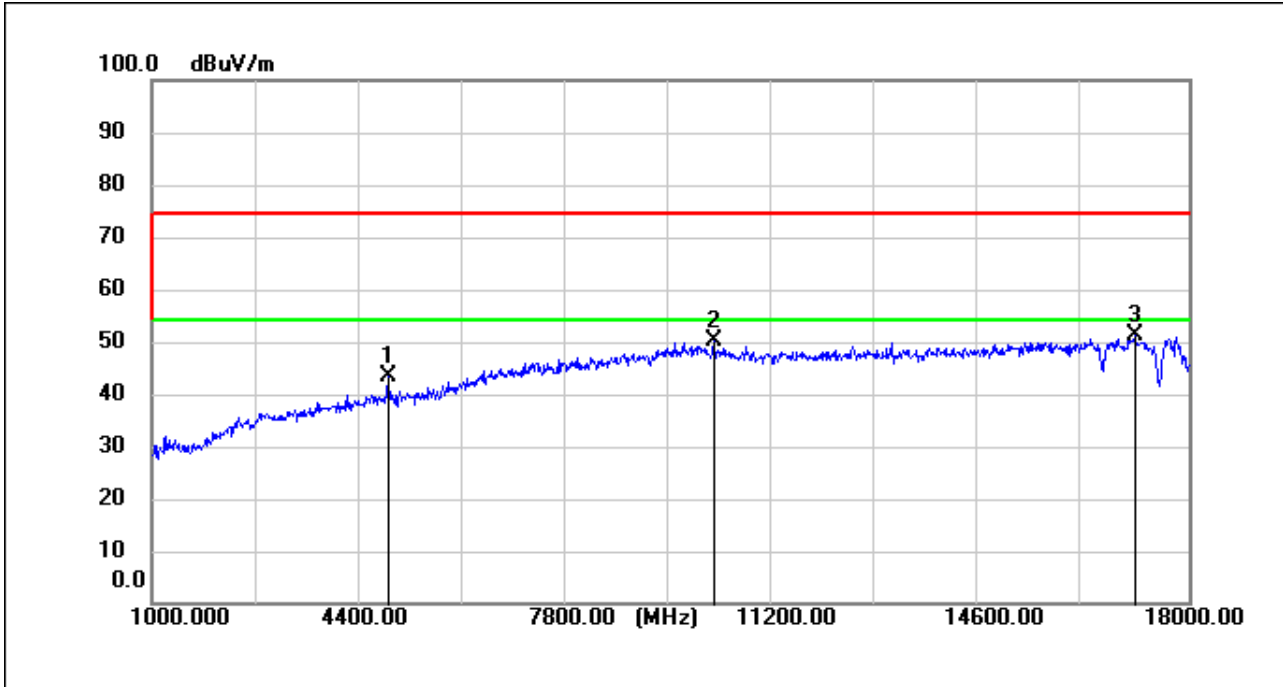
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4803.750	67.11	-17.01	50.10	74.00	-23.90	peak
2	7206.700	59.45	-10.04	49.41	74.00	-24.59	peak
3	17816.400	52.77	-1.34	51.43	74.00	-22.57	peak

BT_DH5_TX_CH_39_Horizontal



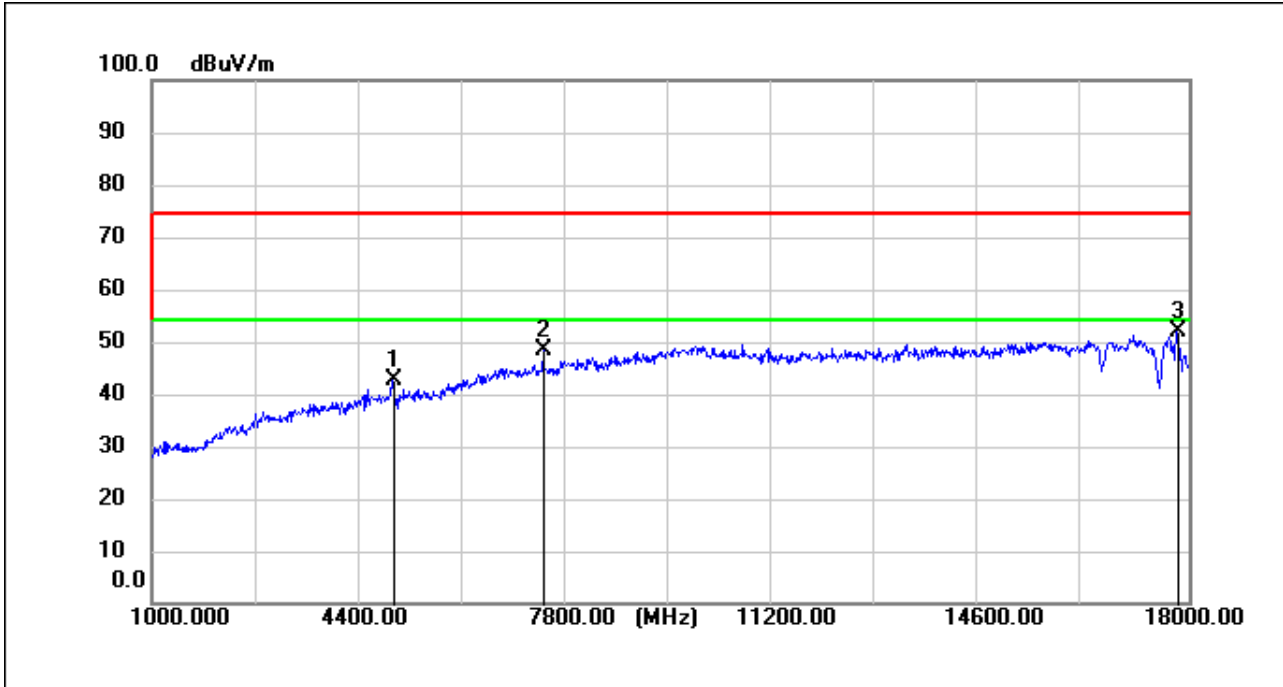
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882.800	59.04	-16.86	42.18	74.00	-31.82	peak
2	7324.000	58.41	-10.01	48.40	74.00	-25.60	peak
3	17811.300	53.22	-1.34	51.88	74.00	-22.12	peak

BT_DH5_TX_CH_39_Vertical



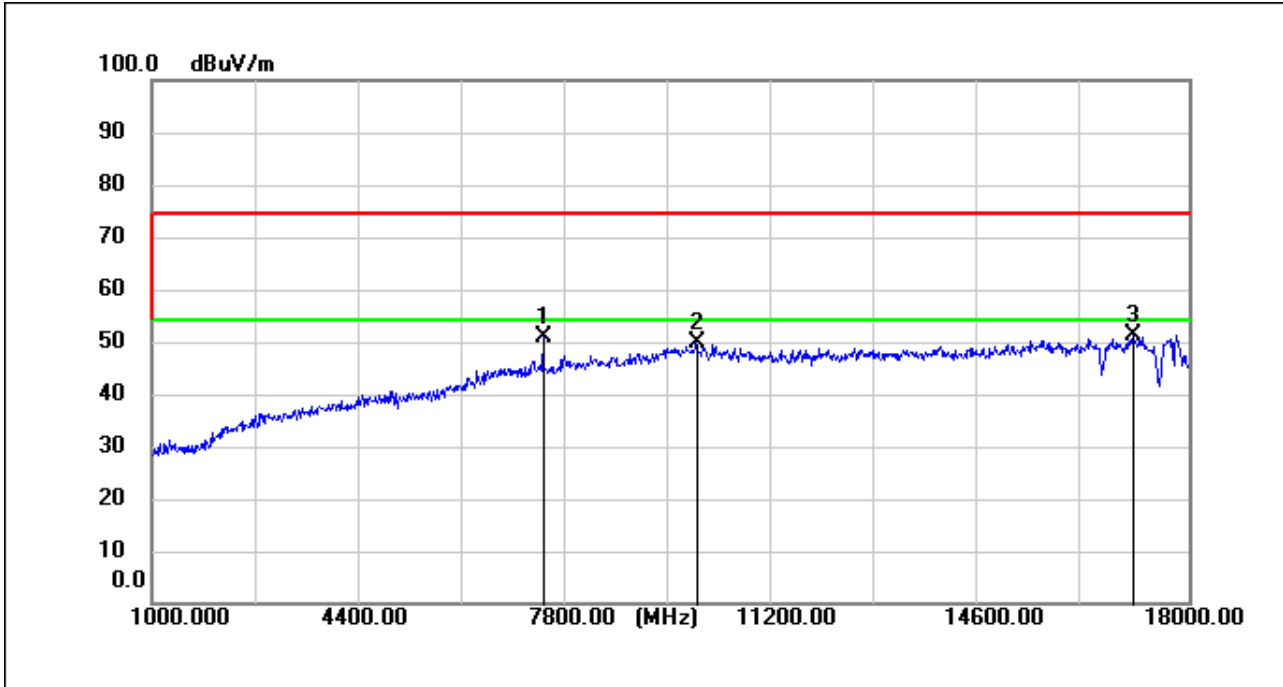
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882.800	60.22	-16.86	43.36	74.00	-30.64	peak
2	10225.050	55.84	-5.77	50.07	74.00	-23.93	peak
3	17119.400	52.99	-1.69	51.30	74.00	-22.70	peak

BT_DH5_TX_CH_78_Horizontal



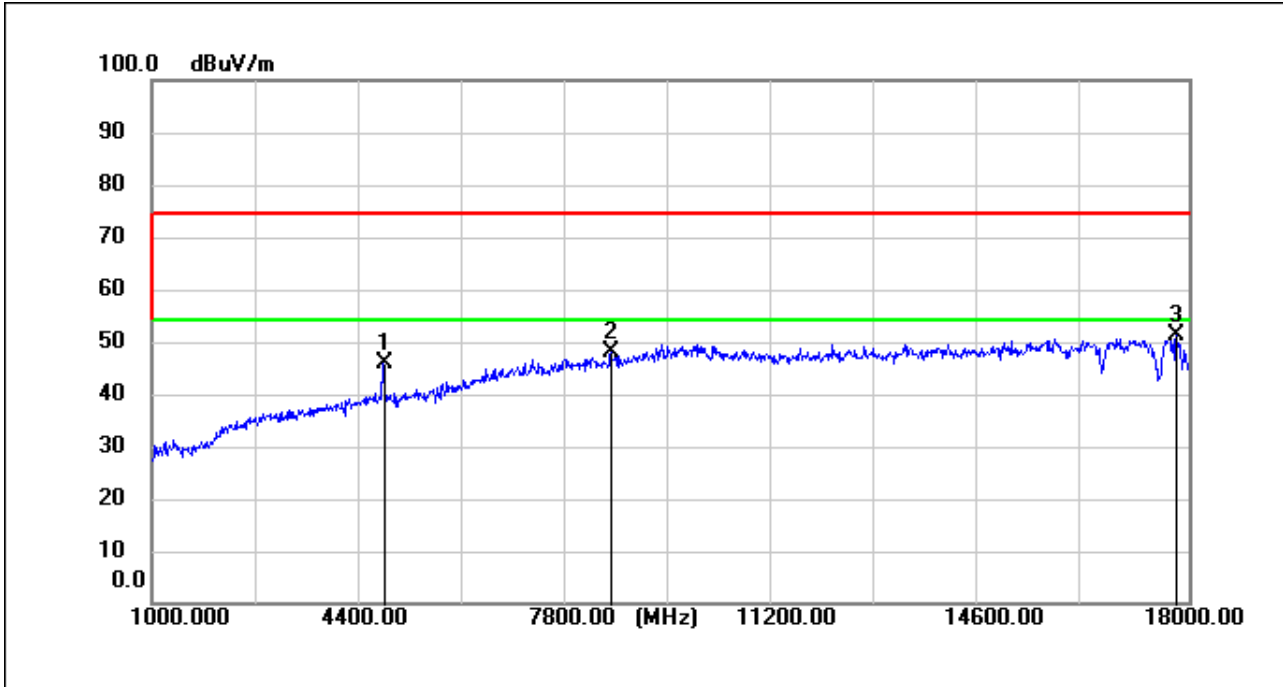
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.150	59.44	-16.72	42.72	74.00	-31.28	peak
2	7440.450	58.41	-9.94	48.47	74.00	-25.53	peak
3	17814.700	53.30	-1.34	51.96	74.00	-22.04	peak

BT_DH5_TX_CH_78_Vertical



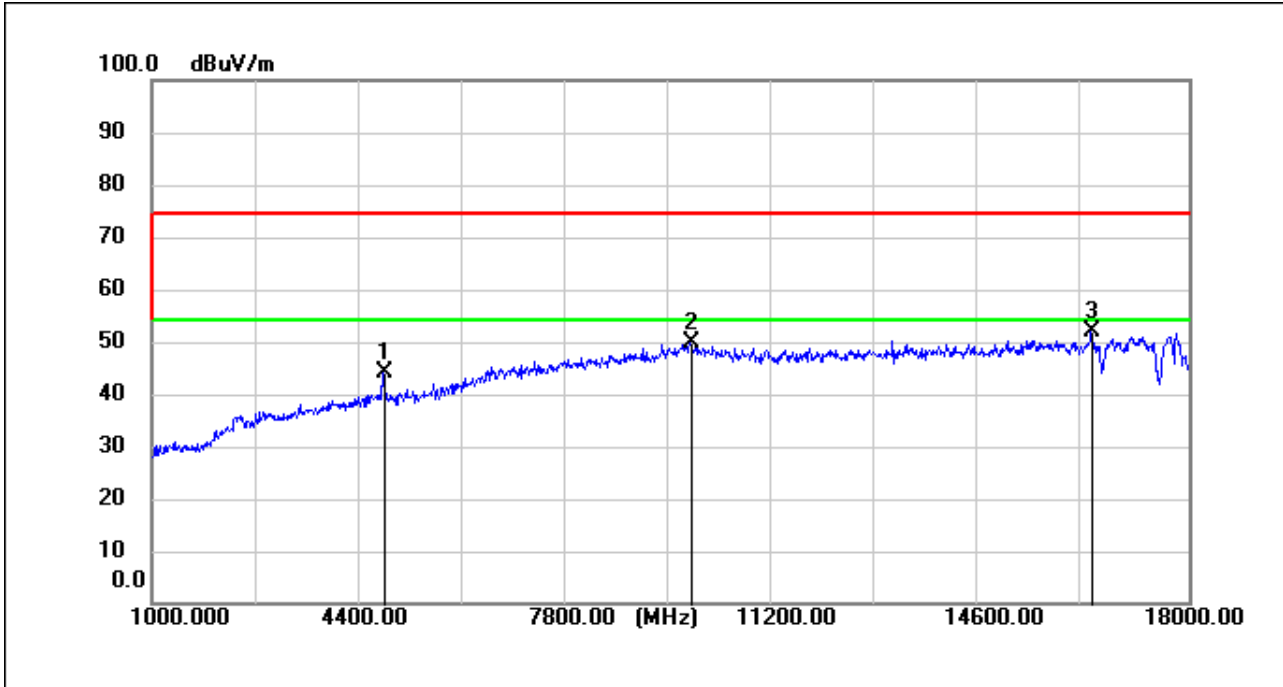
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7439.600	60.74	-9.94	50.80	74.00	-23.20	peak
2	9935.200	55.57	-5.60	49.97	74.00	-24.03	peak
3	17083.700	52.93	-1.73	51.20	74.00	-22.80	peak

BT_2DH5_TX_CH_00_Horizontal



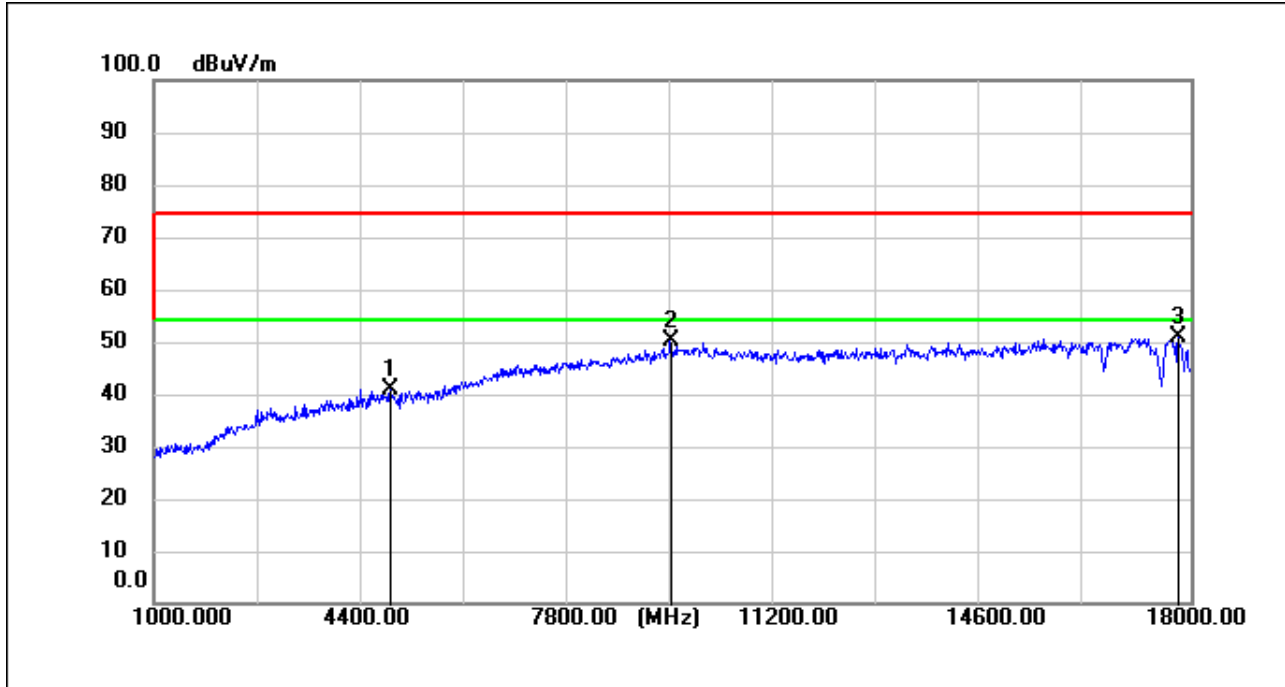
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4803.750	62.84	-17.01	45.83	74.00	-28.17	peak
2	8536.100	56.50	-8.49	48.01	74.00	-25.99	peak
3	17812.150	52.46	-1.34	51.12	74.00	-22.88	peak

BT_2DH5_TX_CH_00_Vertical



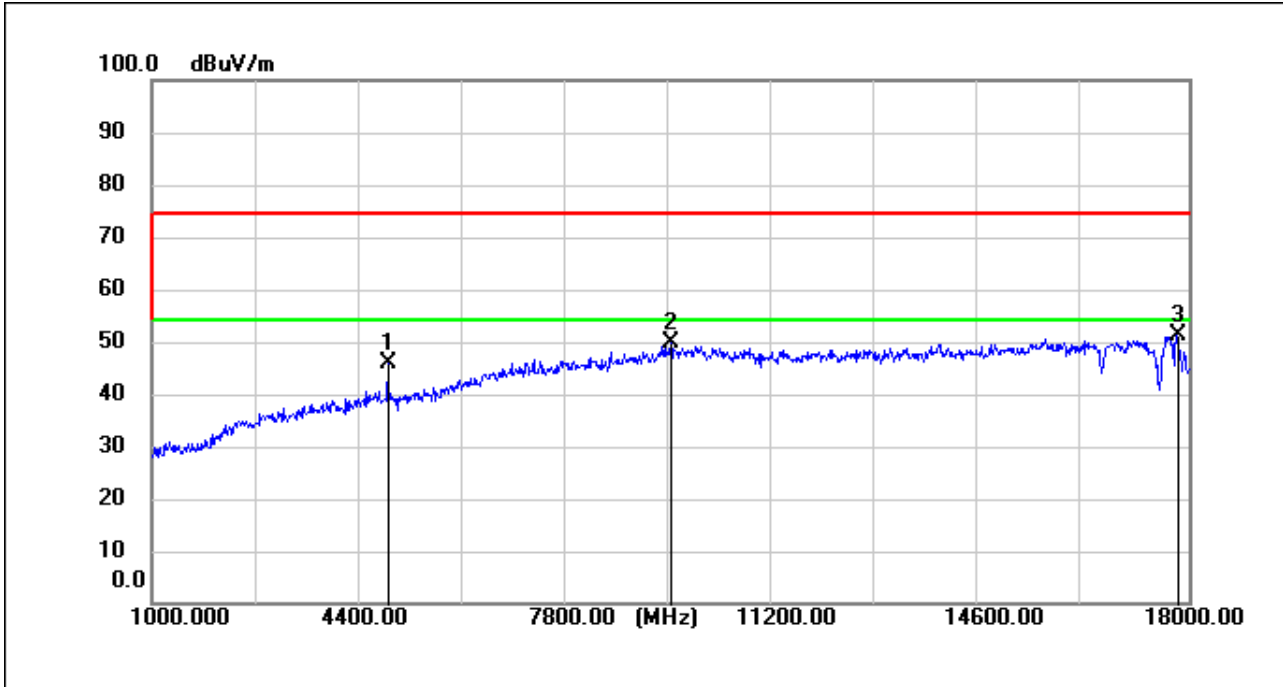
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4803.750	61.20	-17.01	44.19	74.00	-29.81	peak
2	9833.200	55.33	-5.68	49.65	74.00	-24.35	peak
3	16408.800	54.34	-2.54	51.80	74.00	-22.20	peak

BT_2DH5_TX_CH_39_Horizontal



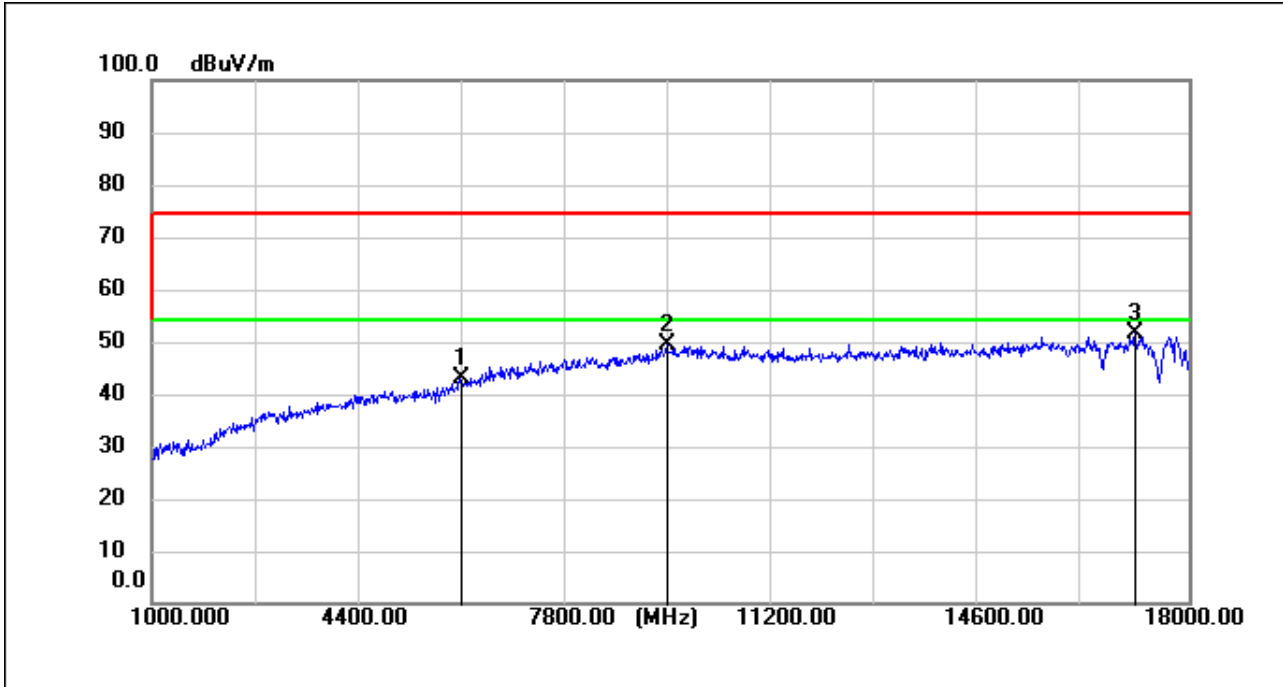
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4881.100	57.88	-16.87	41.01	74.00	-32.99	peak
2	9469.400	56.95	-6.60	50.35	74.00	-23.65	peak
3	17810.450	52.08	-1.34	50.74	74.00	-23.26	peak

BT_2DH5_TX_CH_39_Vertical



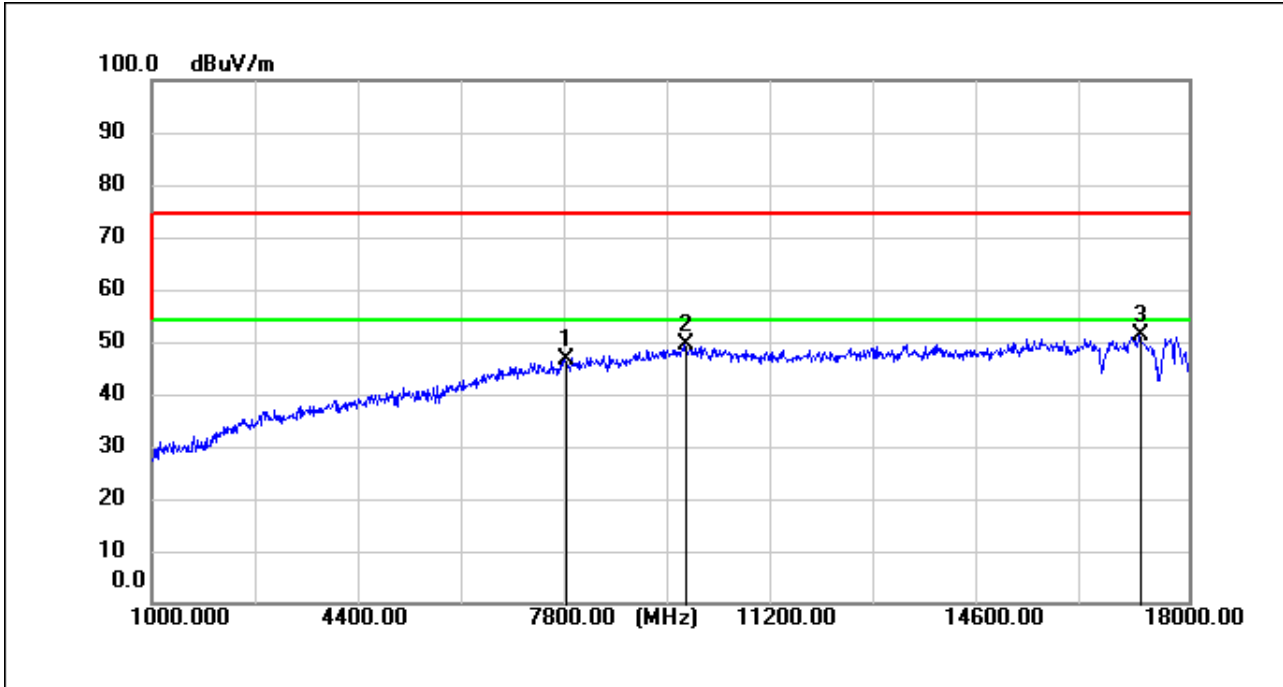
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4881.950	62.84	-16.87	45.97	74.00	-28.03	peak
2	9512.750	56.16	-6.49	49.67	74.00	-24.33	peak
3	17815.550	52.51	-1.34	51.17	74.00	-22.83	peak

BT_2DH5_TX_CH_78_Horizontal



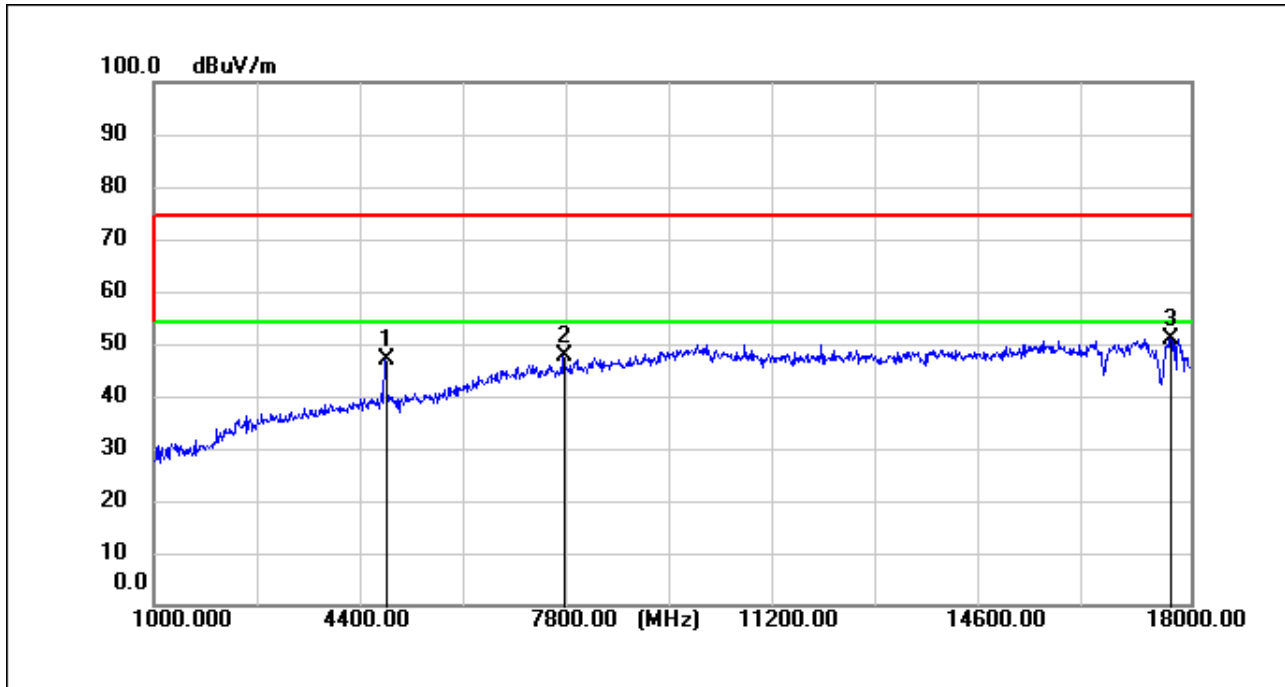
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6054.950	56.67	-13.56	43.11	74.00	-30.89	peak
2	9456.650	56.01	-6.63	49.38	74.00	-24.62	peak
3	17122.800	53.20	-1.69	51.51	74.00	-22.49	peak

BT_2DH5_TX_CH_78_Vertical



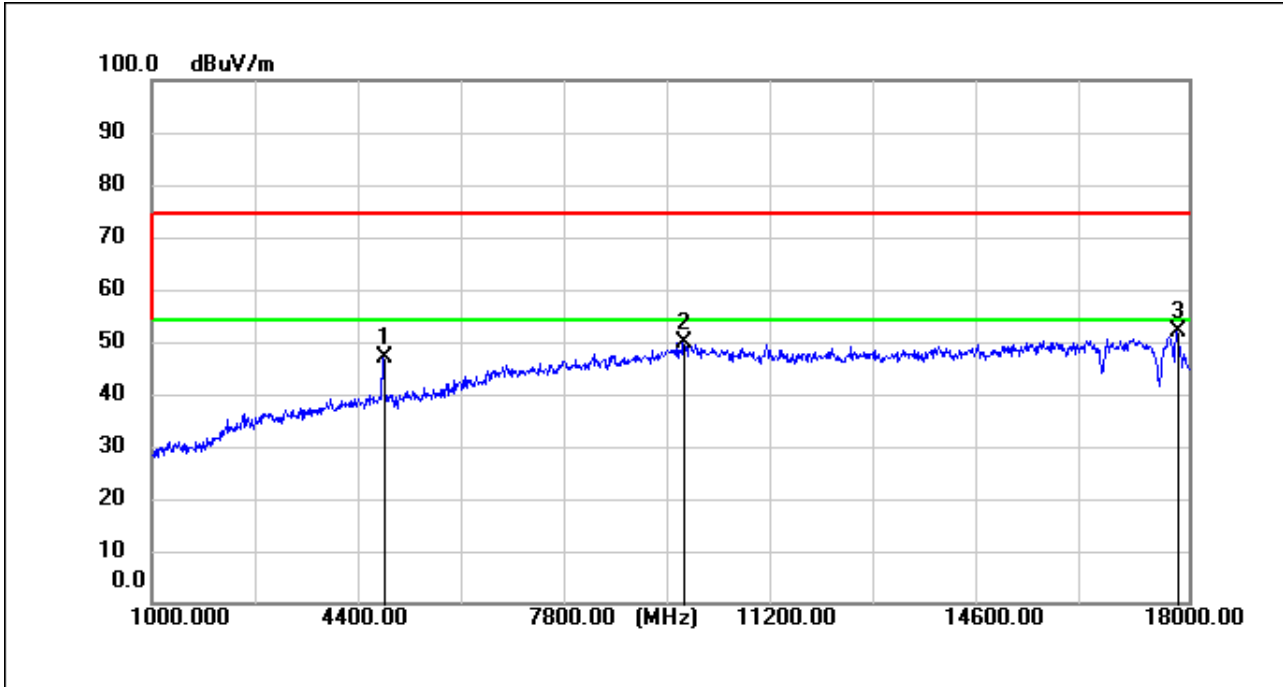
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7776.200	56.03	-9.56	46.47	74.00	-27.53	peak
2	9743.950	55.26	-5.91	49.35	74.00	-24.65	peak
3	17204.400	52.99	-1.62	51.37	74.00	-22.63	peak

BT_3DH5_TX_CH_00_Horizontal



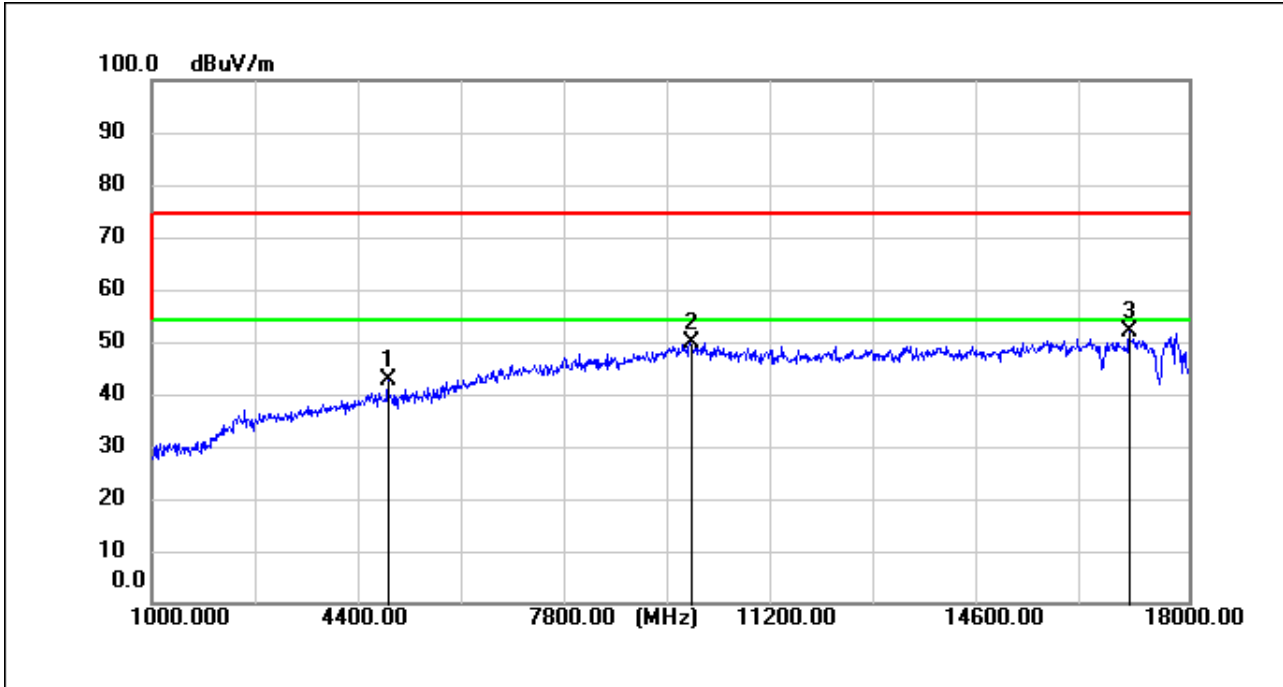
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4803.750	64.06	-17.01	47.05	74.00	-26.95	peak
2	7722.650	57.35	-9.62	47.73	74.00	-26.27	peak
3	17664.250	52.42	-1.37	51.05	74.00	-22.95	peak

BT_3DH5_TX_CH_00_Vertical



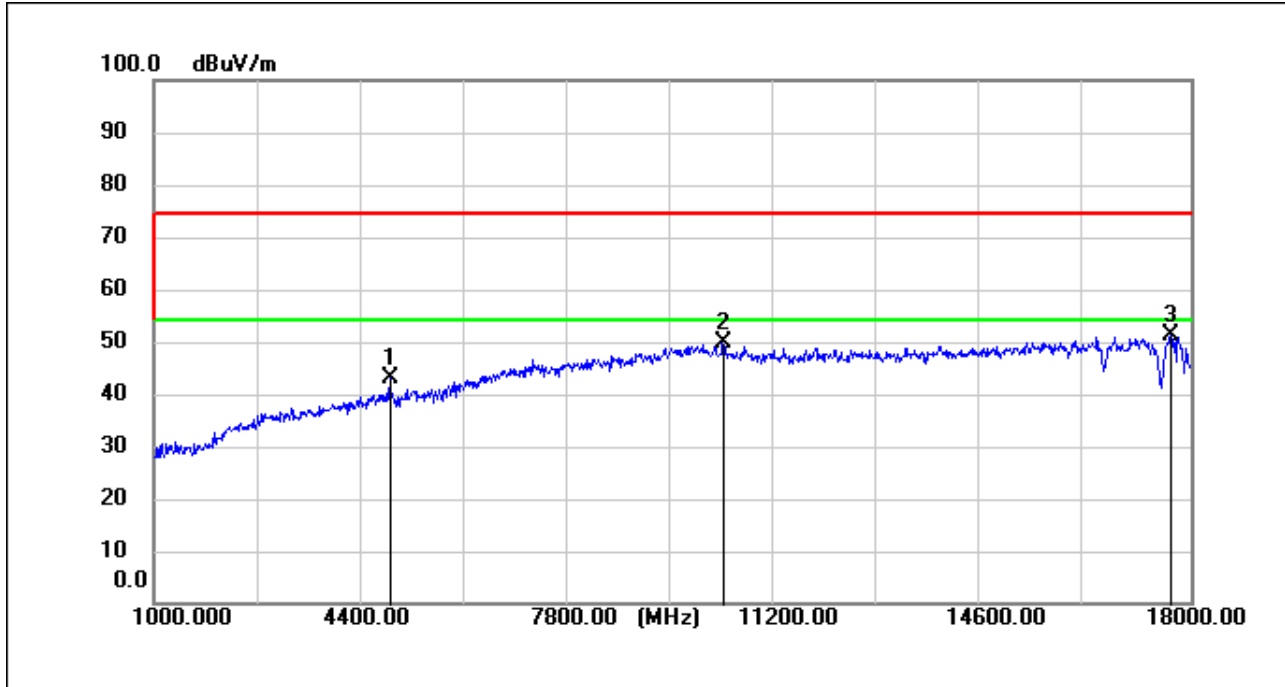
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4803.750	63.87	-17.01	46.86	74.00	-27.14	peak
2	9711.650	55.90	-5.99	49.91	74.00	-24.09	peak
3	17820.650	53.15	-1.34	51.81	74.00	-22.19	peak

BT_3DH5_TX_CH_39_Horizontal



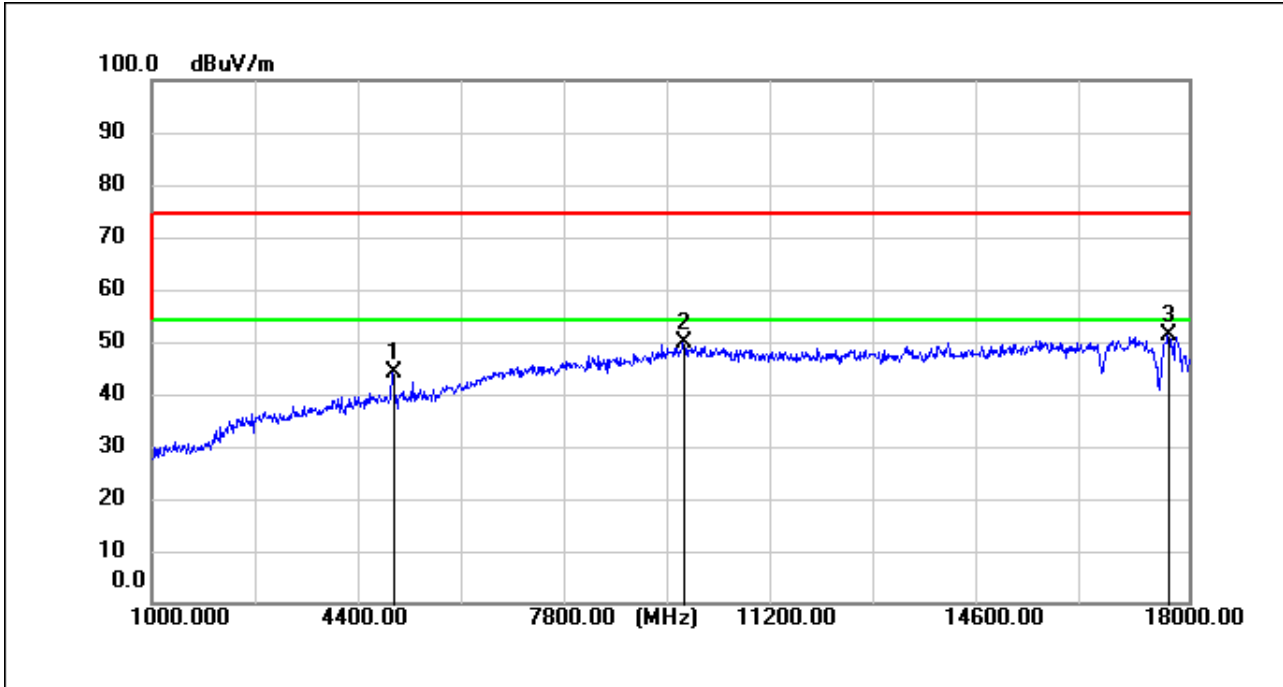
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4881.950	59.55	-16.87	42.68	74.00	-31.32	peak
2	9828.100	55.49	-5.69	49.80	74.00	-24.20	peak
3	17039.500	53.61	-1.76	51.85	74.00	-22.15	peak

BT_3DH5_TX_CH_39_Vertical



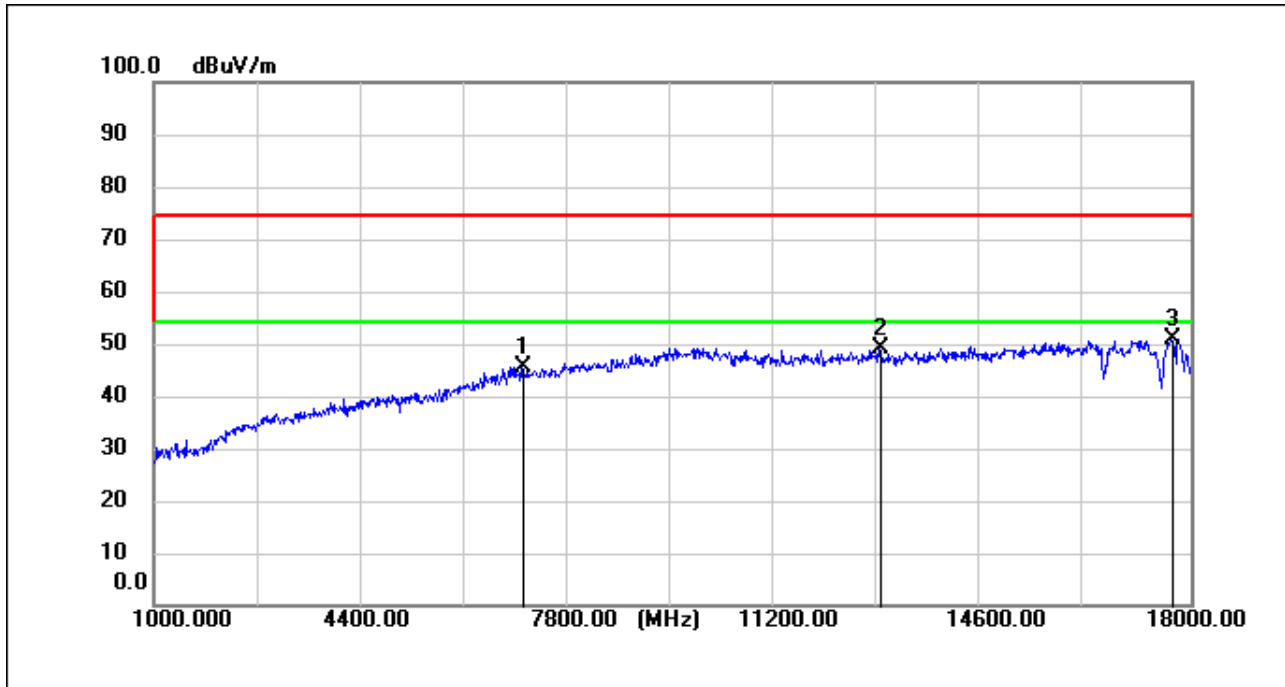
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4881.950	59.93	-16.87	43.06	74.00	-30.94	peak
2	10323.650	55.77	-5.85	49.92	74.00	-24.08	peak
3	17677.000	52.45	-1.37	51.08	74.00	-22.92	peak

BT_3DH5_TX_CH_78_Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.150	60.83	-16.72	44.11	74.00	-29.89	peak
2	9709.100	55.76	-6.00	49.76	74.00	-24.24	peak
3	17673.600	52.71	-1.37	51.34	74.00	-22.66	peak

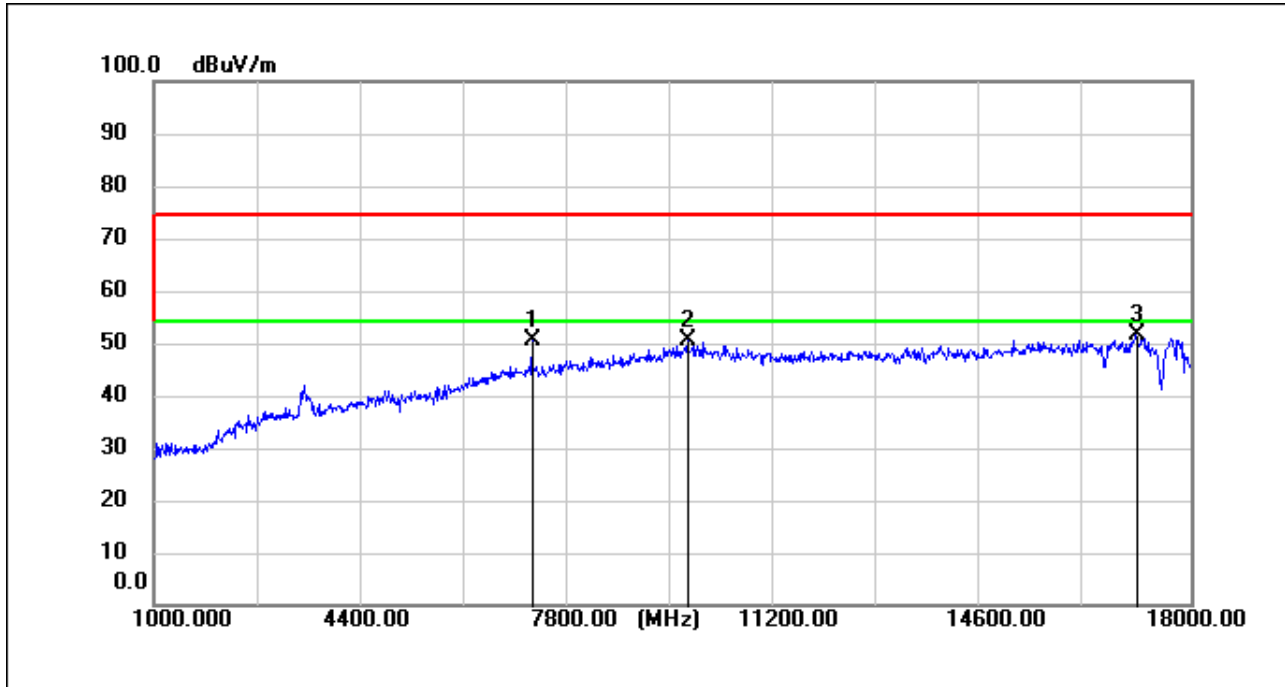
BT_3DH5_TX_CH_78_Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7046.900	55.76	-10.09	45.67	74.00	-28.33	peak
2	12914.450	54.89	-5.94	48.95	74.00	-25.05	peak
3	17682.950	52.31	-1.36	50.95	74.00	-23.05	peak

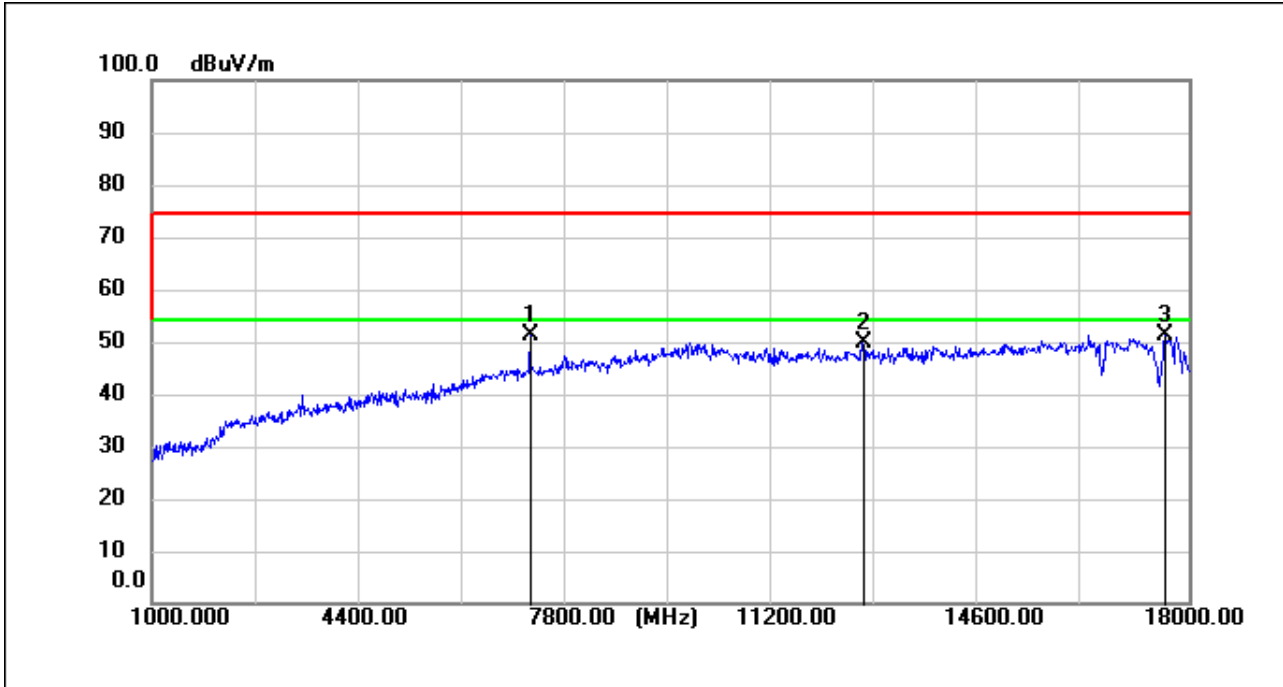
Right earbud

BT_DH5_TX_CH_00_Horizontal



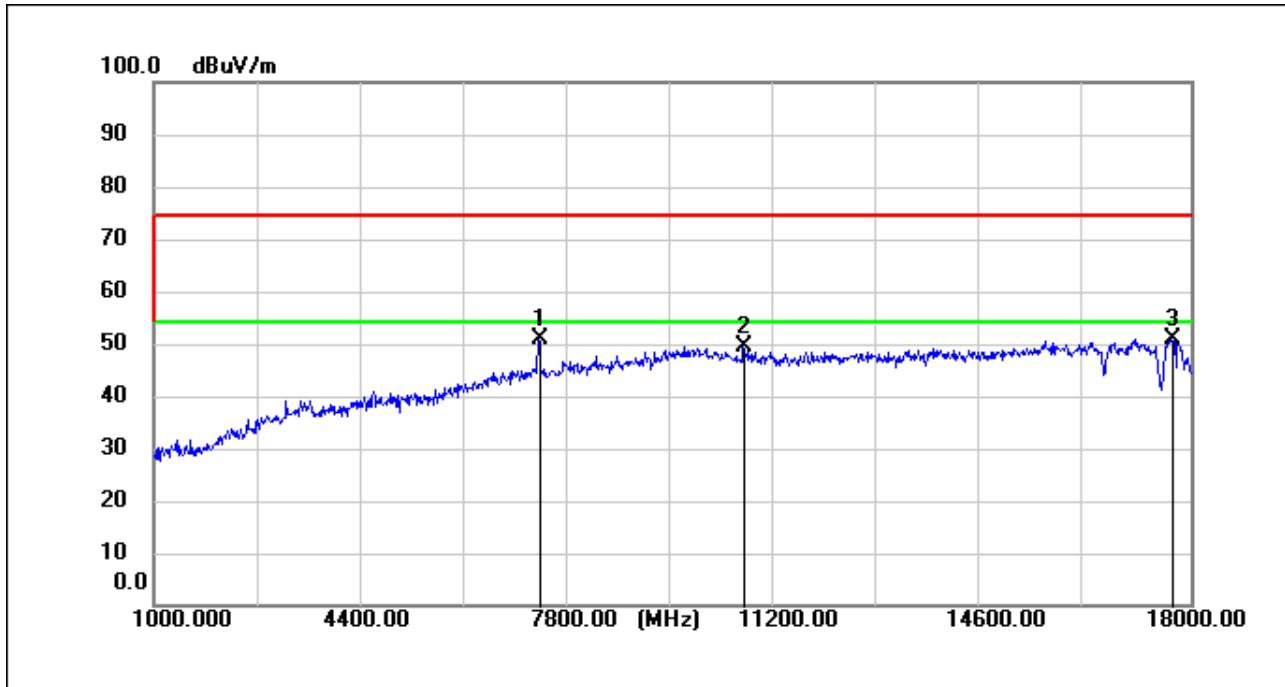
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7205.850	60.55	-10.04	50.51	74.00	-23.49	peak
2	9755.850	56.31	-5.88	50.43	74.00	-23.57	peak
3	17105.800	53.37	-1.70	51.67	74.00	-22.33	peak

BT_DH5_TX_CH_00_Vertical



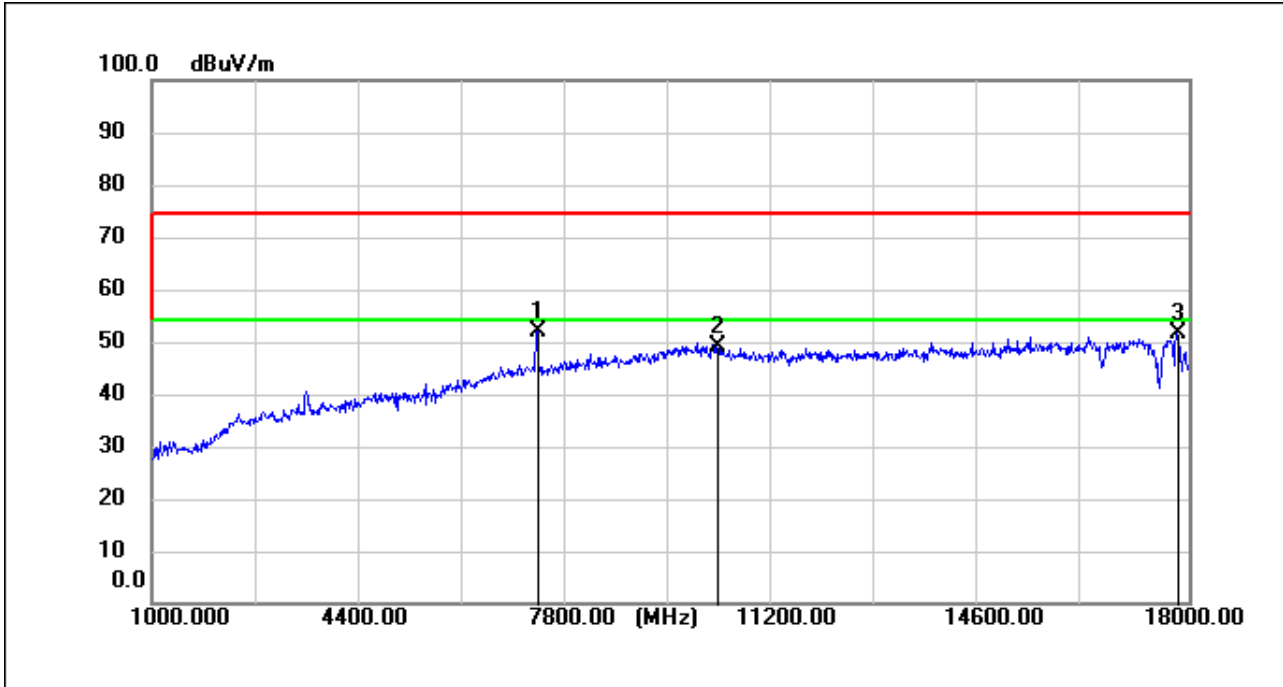
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7205.850	61.36	-10.04	51.32	74.00	-22.68	peak
2	12659.450	55.84	-6.07	49.77	74.00	-24.23	peak
3	17622.600	52.57	-1.37	51.20	74.00	-22.80	peak

BT_DH5_TX_CH_39_Horizontal



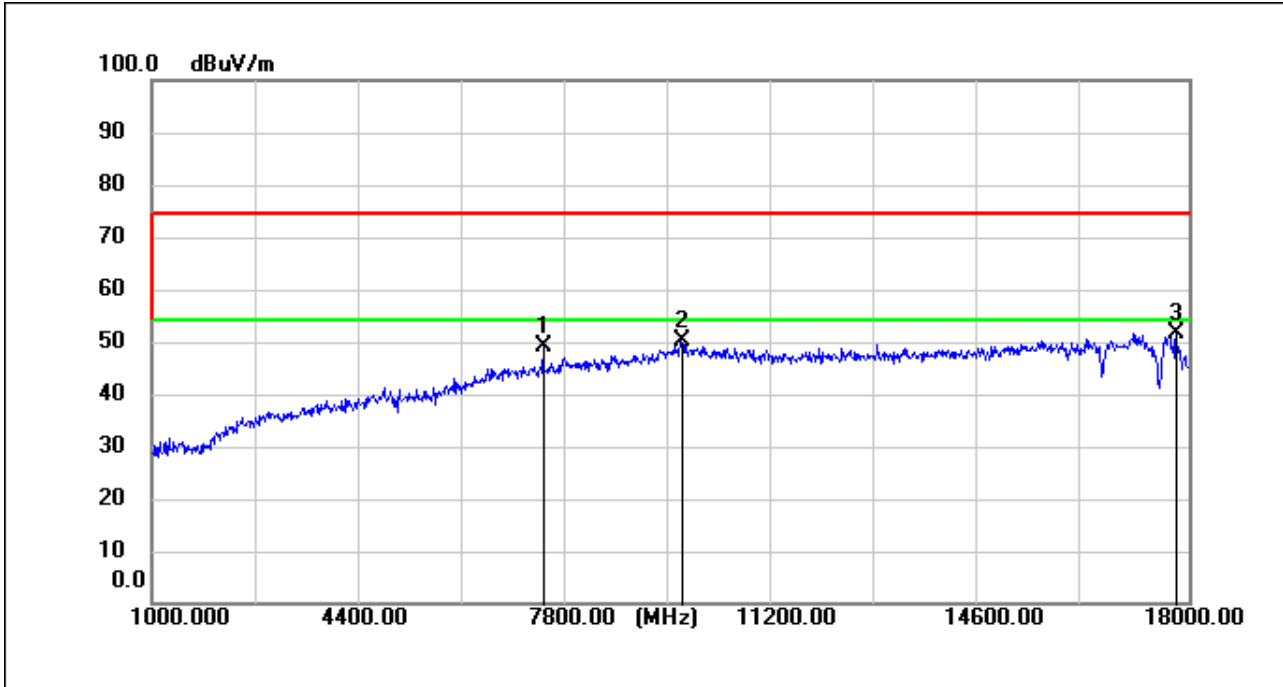
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7323.150	60.91	-10.01	50.90	74.00	-23.10	peak
2	10666.200	55.60	-6.13	49.47	74.00	-24.53	peak
3	17682.100	52.24	-1.37	50.87	74.00	-23.13	peak

BT_DH5_TX_CH_39_Vertical



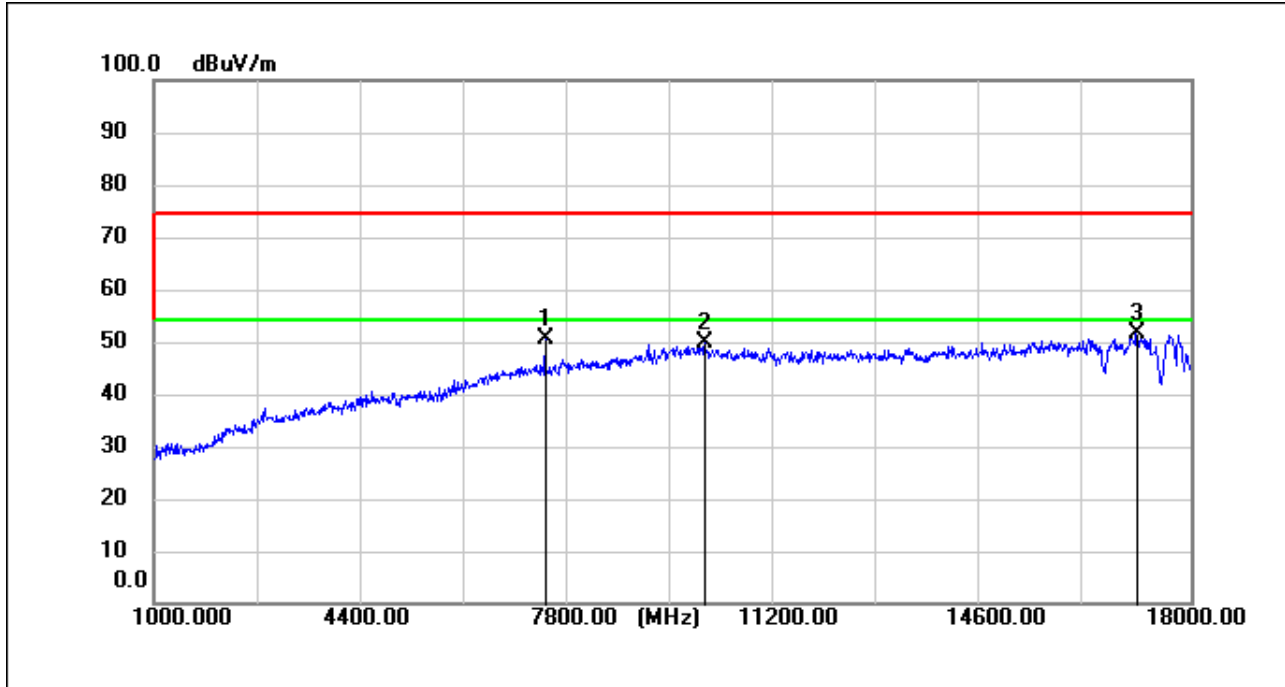
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7323.150	61.94	-10.01	51.93	74.00	-22.07	peak
2	10272.650	55.00	-5.80	49.20	74.00	-24.80	peak
3	17827.450	52.85	-1.34	51.51	74.00	-22.49	peak

BT_DH5_TX_CH_78_Horizontal



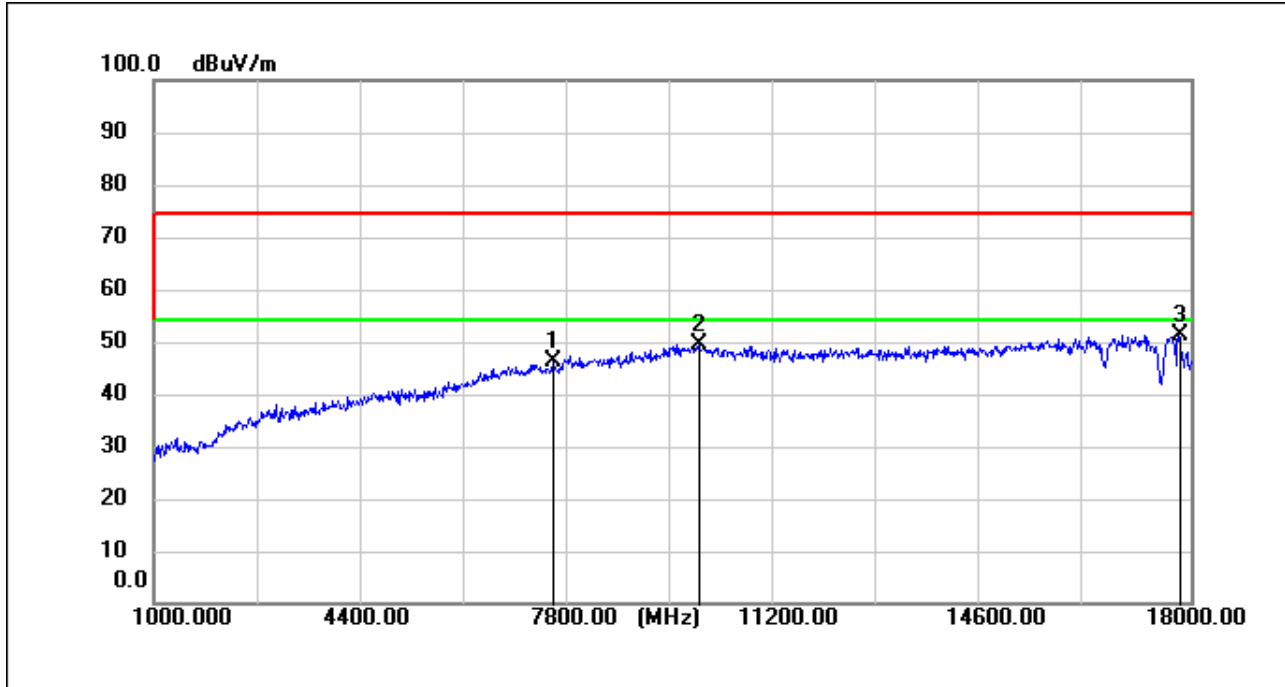
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7440.450	58.96	-9.94	49.02	74.00	-24.98	peak
2	9686.150	56.39	-6.05	50.34	74.00	-23.66	peak
3	17808.750	52.95	-1.35	51.60	74.00	-22.40	peak

BT_DH5_TX_CH_78_Vertical



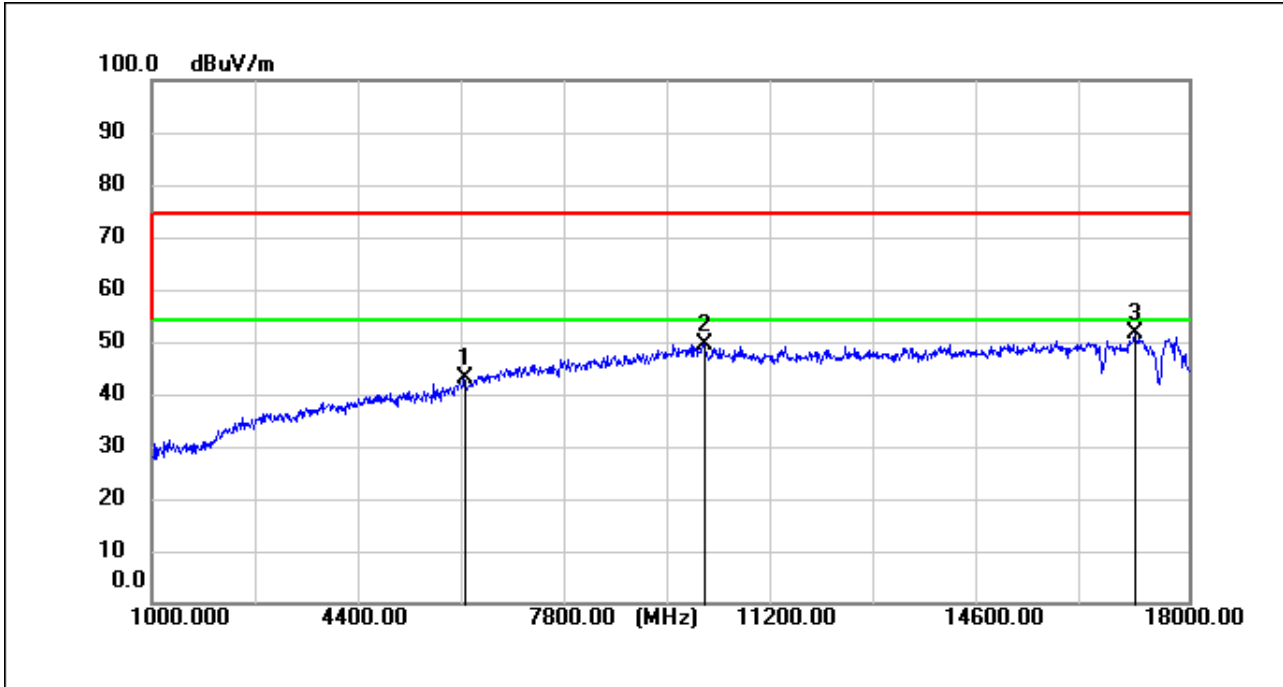
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7439.600	60.44	-9.94	50.50	74.00	-23.50	peak
2	10041.450	55.31	-5.61	49.70	74.00	-24.30	peak
3	17106.650	53.38	-1.70	51.68	74.00	-22.32	peak

BT_2DH5_TX_CH_00_Horizontal



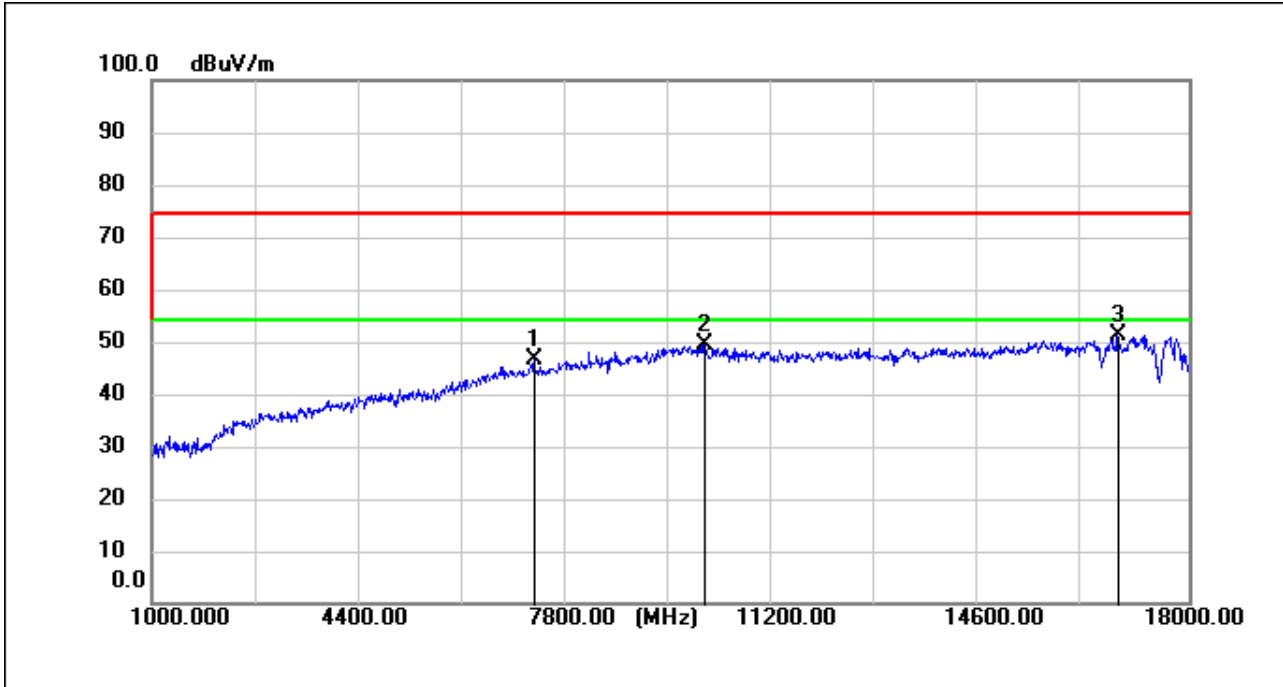
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7549.250	56.05	-9.81	46.24	74.00	-27.76	peak
2	9951.350	55.07	-5.60	49.47	74.00	-24.53	peak
3	17818.100	52.56	-1.34	51.22	74.00	-22.78	peak

BT_2DH5_TX_CH_00_Vertical



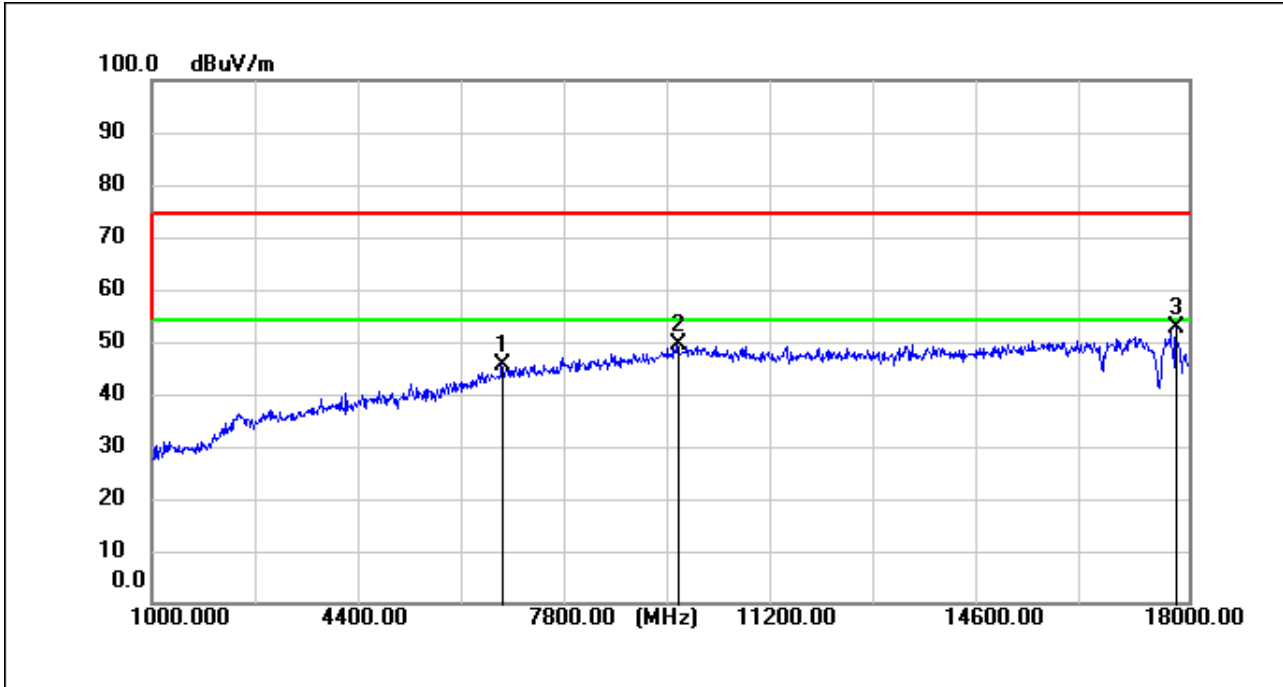
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6126.350	56.15	-13.25	42.90	74.00	-31.10	peak
2	10076.300	55.23	-5.64	49.59	74.00	-24.41	peak
3	17117.700	53.25	-1.69	51.56	74.00	-22.44	peak

BT_2DH5_TX_CH_39_Horizontal



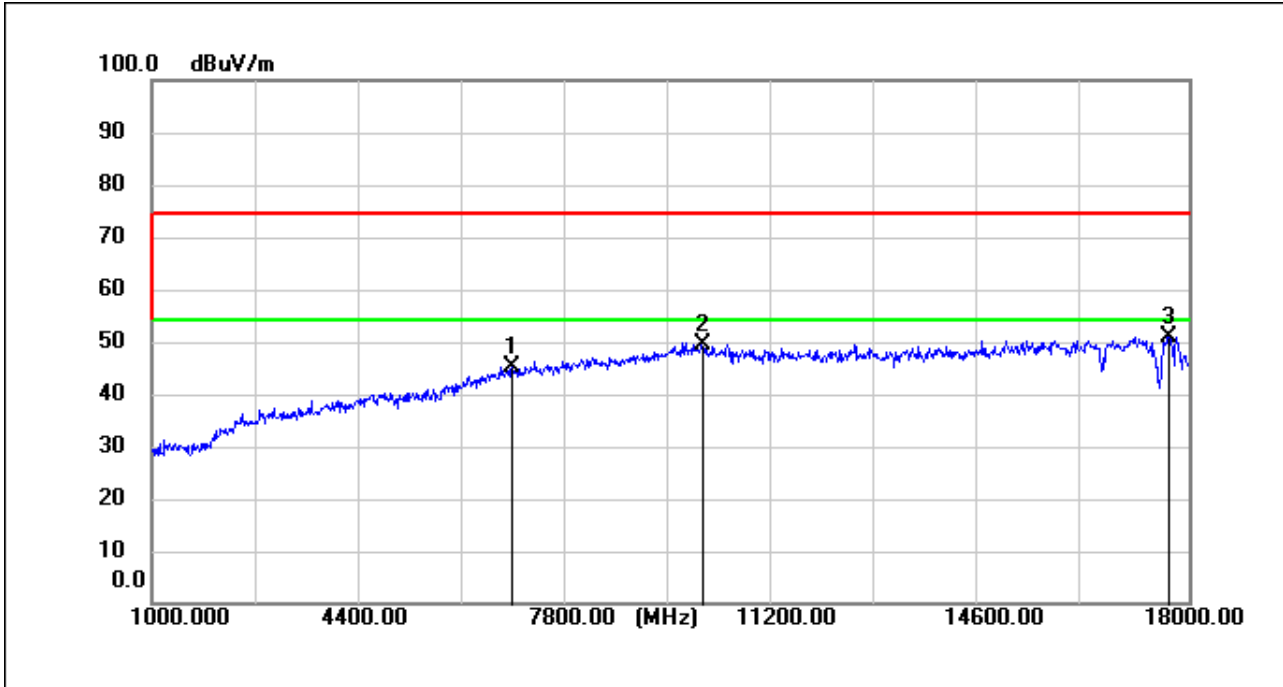
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7276.400	56.54	-10.02	46.52	74.00	-27.48	peak
2	10060.150	55.10	-5.63	49.47	74.00	-24.53	peak
3	16830.400	53.23	-2.01	51.22	74.00	-22.78	peak

BT_2DH5_TX_CH_39_Vertical



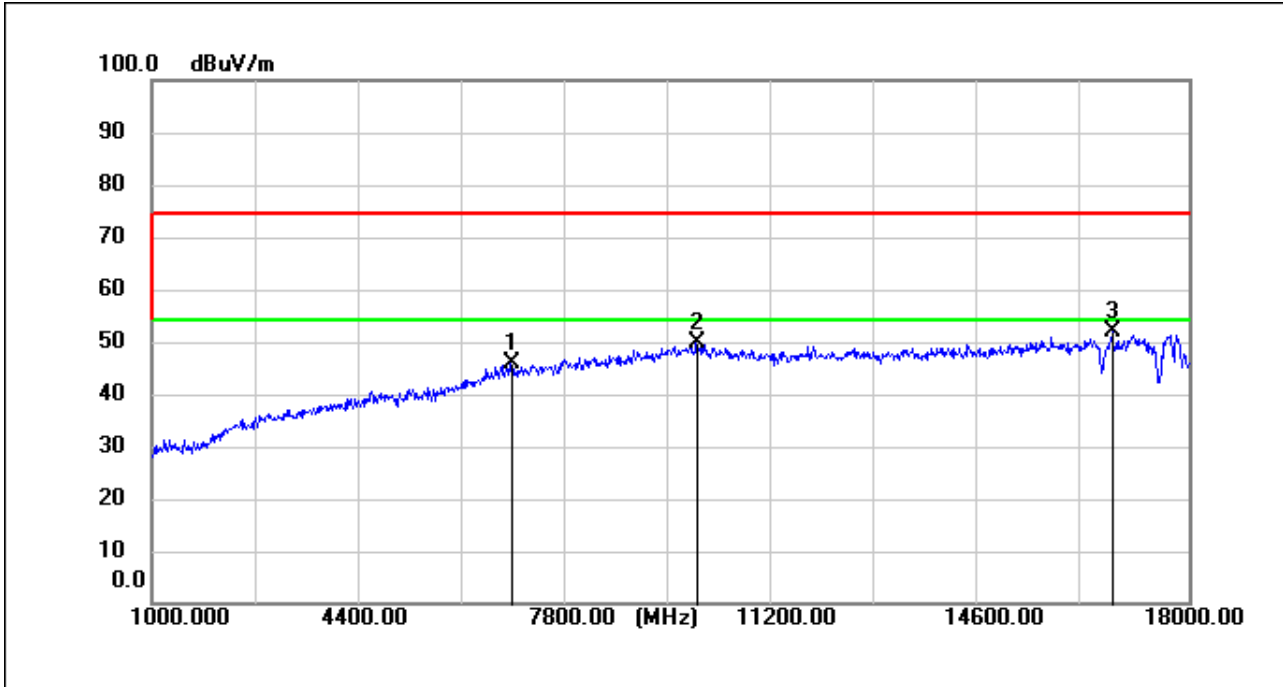
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6737.500	55.91	-10.41	45.50	74.00	-28.50	peak
2	9625.800	55.61	-6.20	49.41	74.00	-24.59	peak
3	17810.450	53.96	-1.34	52.62	74.00	-21.38	peak

BT_2DH5_TX_CH_78_Horizontal



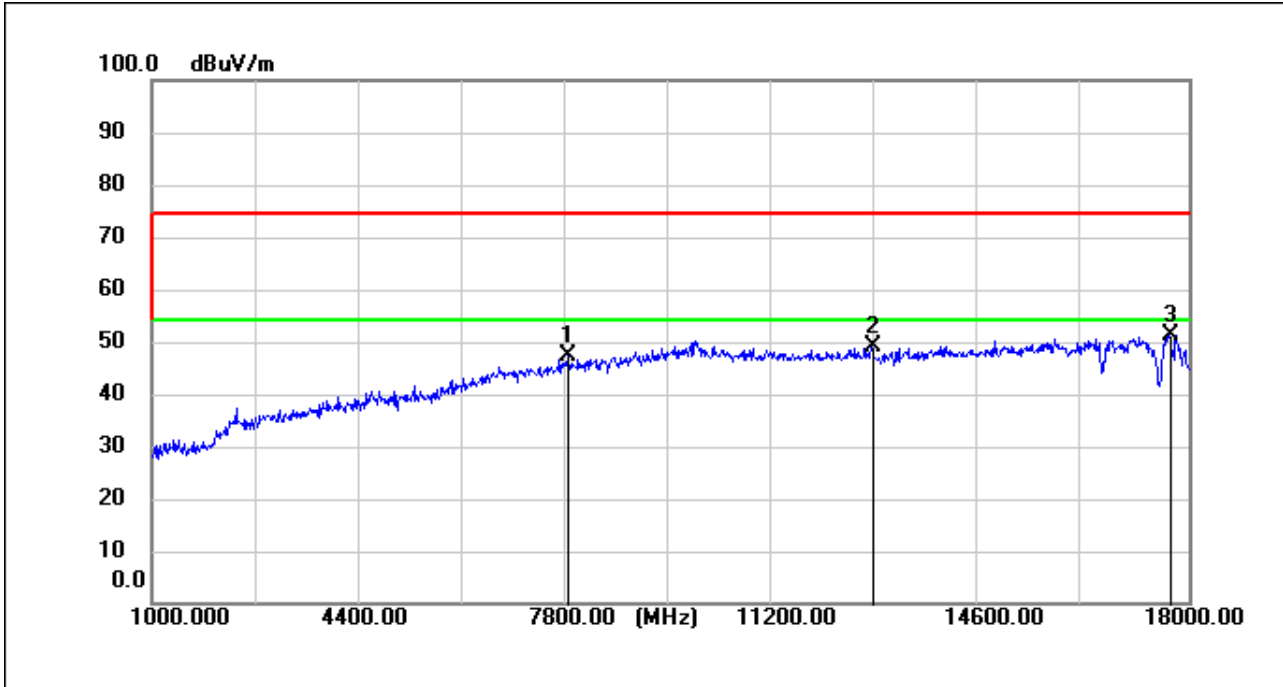
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6910.050	55.36	-10.20	45.16	74.00	-28.84	peak
2	10025.300	55.13	-5.60	49.53	74.00	-24.47	peak
3	17674.450	52.36	-1.37	50.99	74.00	-23.01	peak

BT_2DH5_TX_CH_78_Vertical



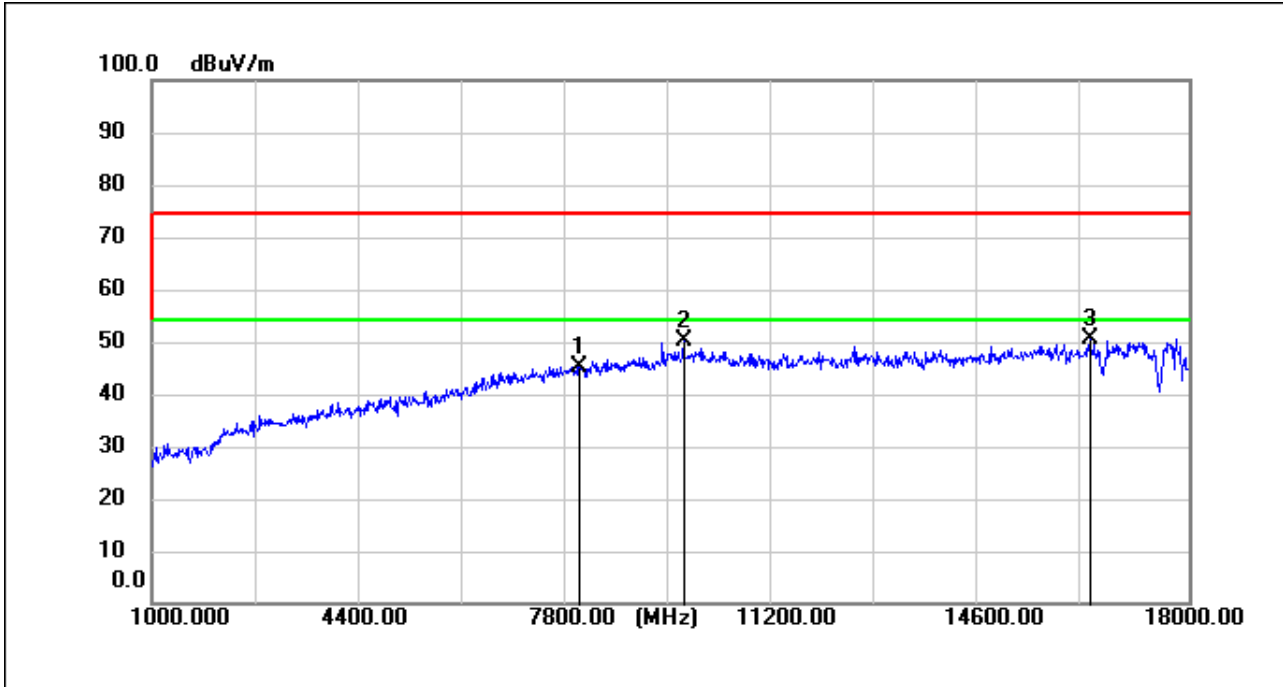
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6889.650	56.24	-10.23	46.01	74.00	-27.99	peak
2	9927.550	55.59	-5.61	49.98	74.00	-24.02	peak
3	16751.350	53.96	-2.11	51.85	74.00	-22.15	peak

BT_3DH5_TX_CH_00_Horizontal



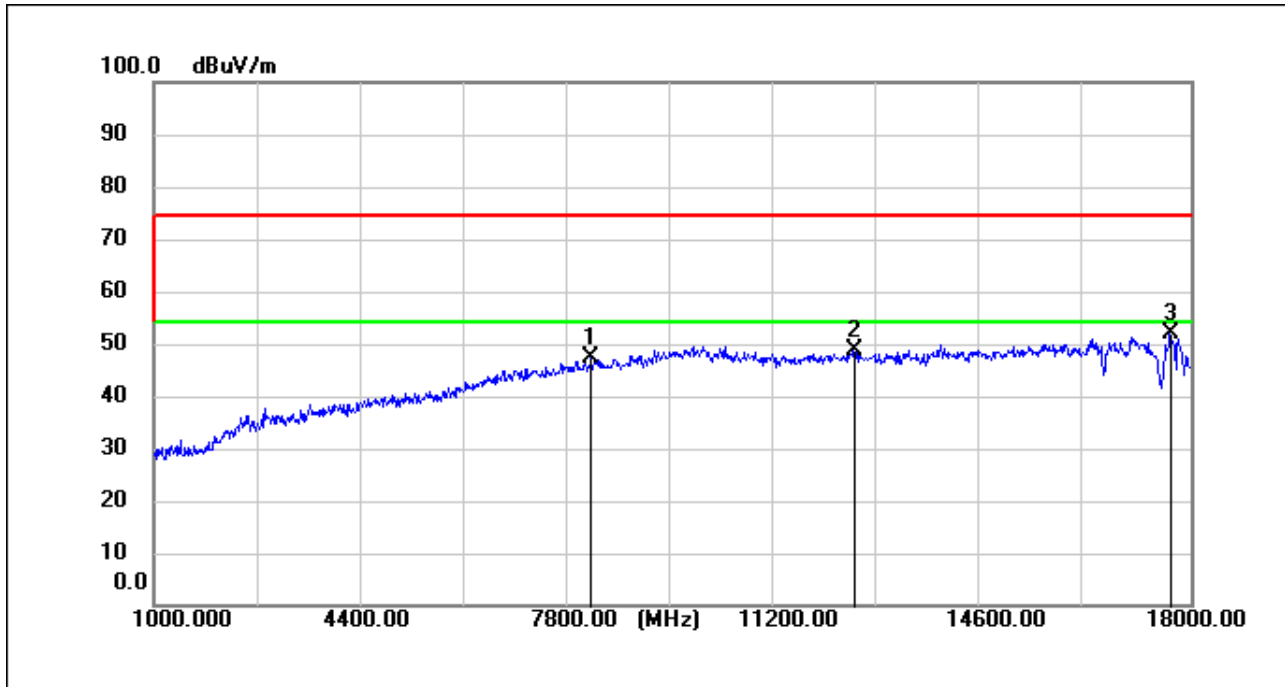
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7831.450	56.67	-9.50	47.17	74.00	-26.83	peak
2	12813.300	55.20	-5.99	49.21	74.00	-24.79	peak
3	17686.350	52.64	-1.36	51.28	74.00	-22.72	peak

BT_3DH5_TX_CH_00_Vertical



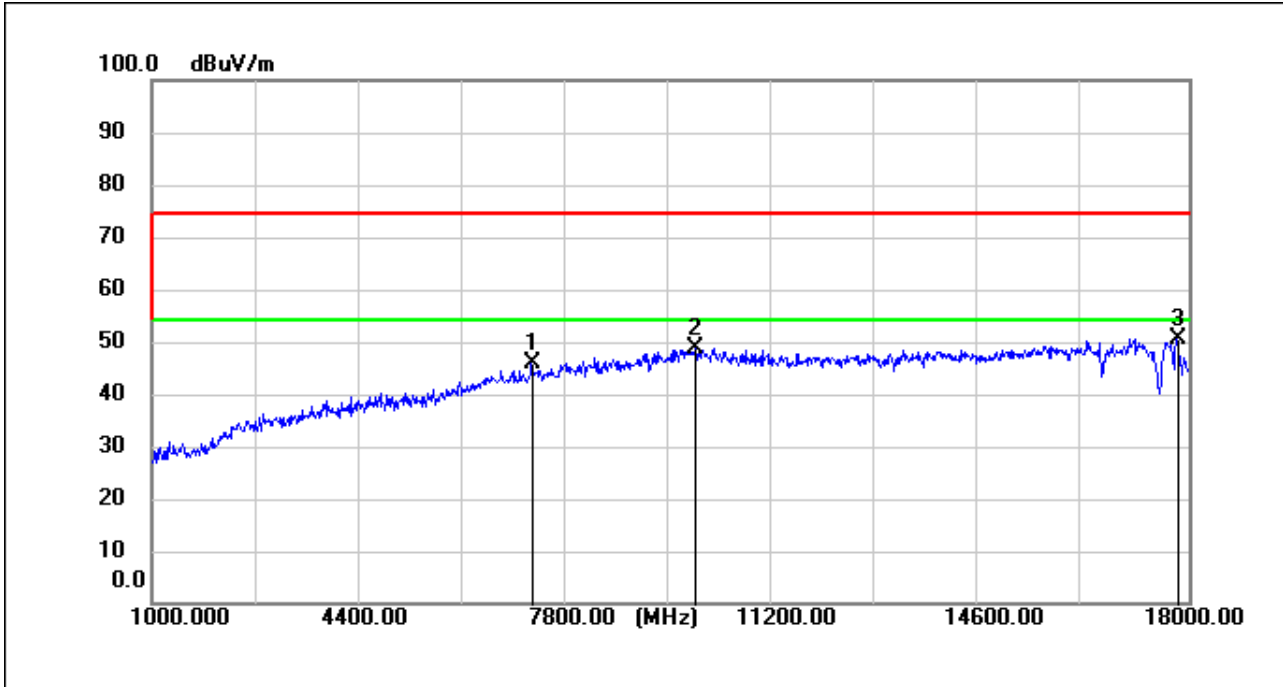
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7993.800	54.56	-9.31	45.25	74.00	-28.75	peak
2	9736.300	56.03	-5.92	50.11	74.00	-23.89	peak
3	16398.600	53.18	-2.55	50.63	74.00	-23.37	peak

BT_3DH5_TX_CH_39_Horizontal



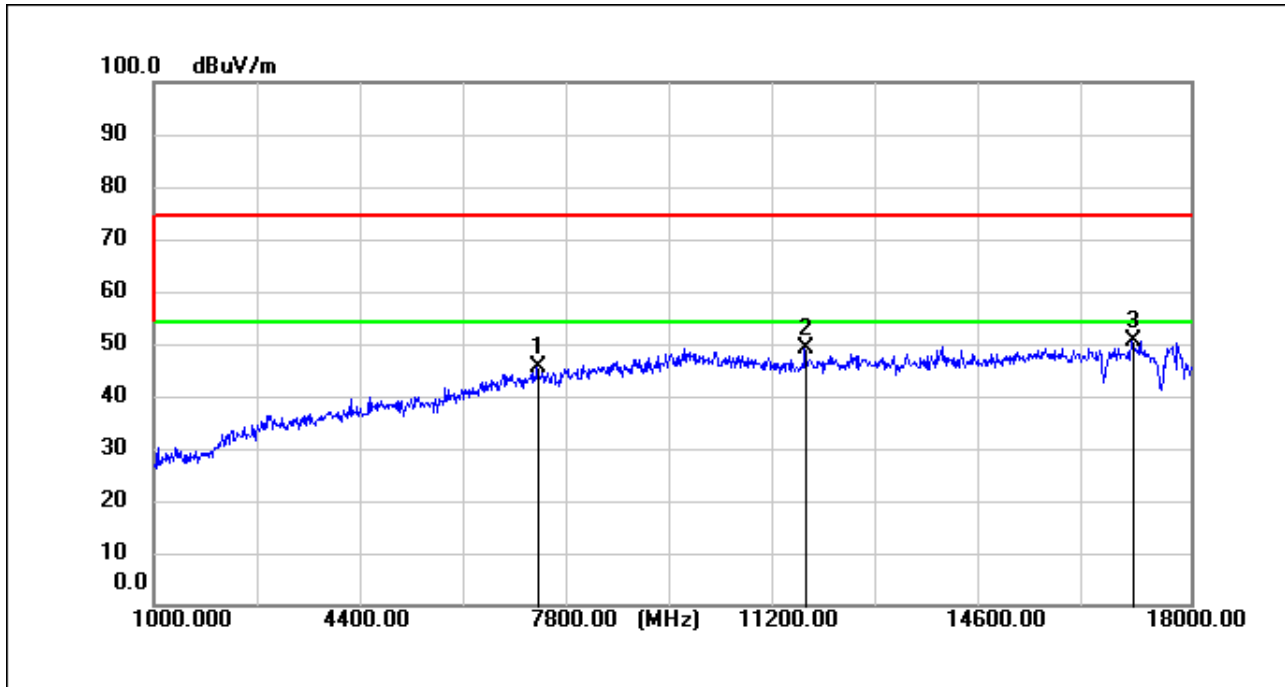
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8174.000	56.34	-9.02	47.32	74.00	-26.68	peak
2	12482.650	54.77	-6.17	48.60	74.00	-25.40	peak
3	17675.300	53.38	-1.37	52.01	74.00	-21.99	peak

BT_3DH5_TX_CH_39_Vertical



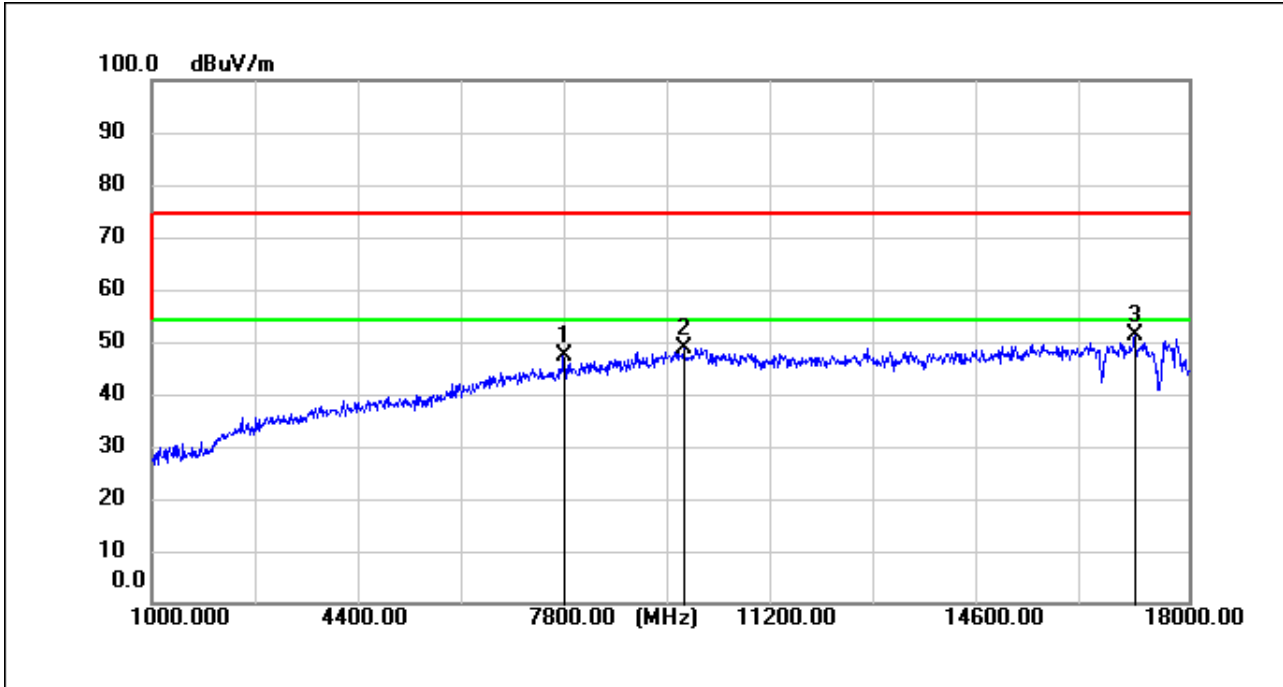
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7222.850	55.77	-10.03	45.74	74.00	-28.26	peak
2	9925.000	54.34	-5.61	48.73	74.00	-25.27	peak
3	17815.550	52.00	-1.34	50.66	74.00	-23.34	peak

BT_3DH5_TX_CH_78_Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7292.550	55.73	-10.02	45.71	74.00	-28.29	peak
2	11686.200	55.52	-6.47	49.05	74.00	-24.95	peak
3	17061.600	52.43	-1.75	50.68	74.00	-23.32	peak

BT_3DH5_TX_CH_78_Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7761.750	56.77	-9.57	47.20	74.00	-26.80	peak
2	9723.550	54.79	-5.96	48.83	74.00	-25.17	peak
3	17116.000	53.03	-1.69	51.34	74.00	-22.66	peak

7.4 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(1)

Test Method: ANSI C63.10 (2020) Section 7.8.5

Limit:

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.9 °C

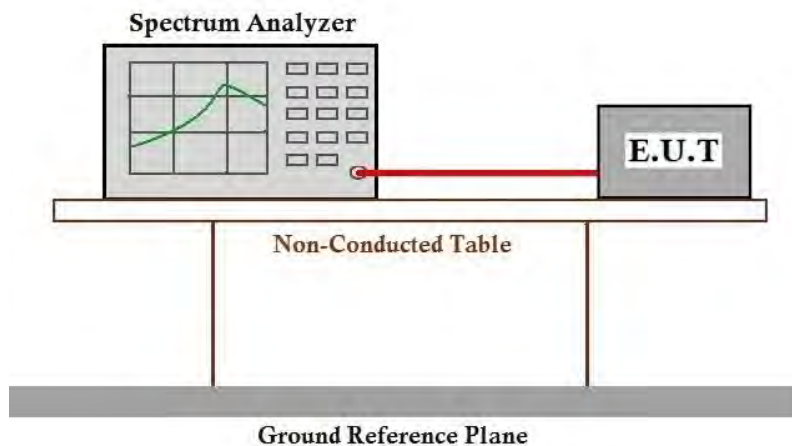
Humidity: 46.5 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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



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Please Refer to Appendix for Details

7.5 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247(a)(1)

Test Method: ANSI C63.10 (2020) Section 6.9.2

Limit: No restriction limits

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.9 °C

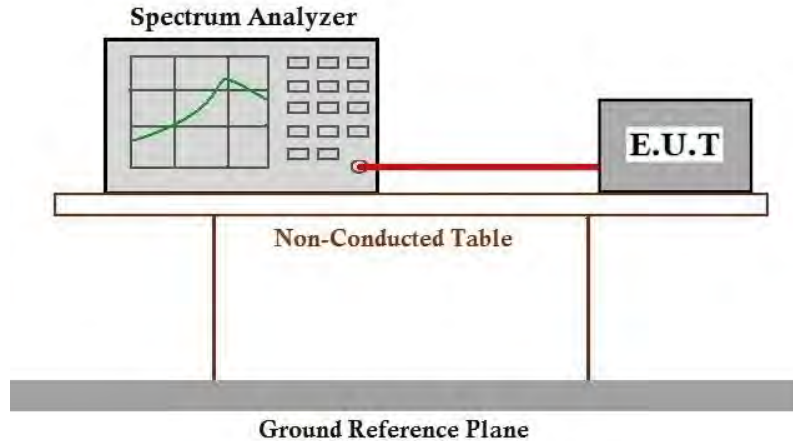
Humidity: 46.5 % RH

Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.6 Carrier Frequencies Separation

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)

Test Method: ANSI C63.10 (2020) Section 7.8.2

Limit:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.9 °C

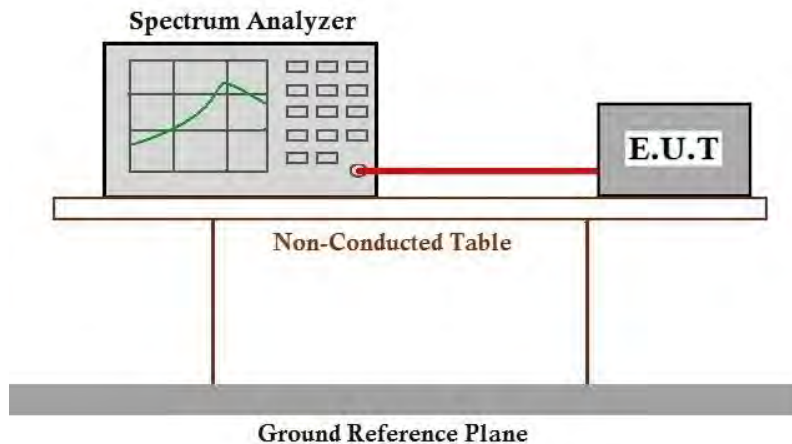
Humidity: 46.5 % RH

Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.7 Hopping Channel Number

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)

Test Method: ANSI C63.10 (2020) Section 7.8.3

Limit:

Frequency range(MHz)	Number of hopping channels (minimum)
902-928	50 for 20dB bandwidth <250kHz
	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 25.9 °C

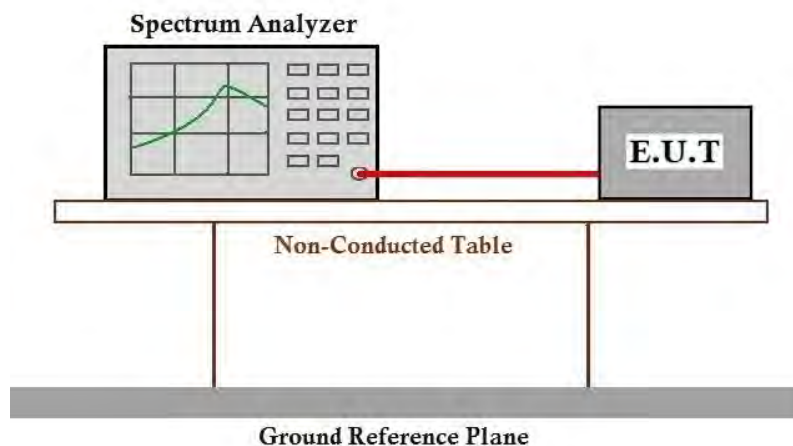
Humidity: 46.5 % RH

Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.8 Dwell Time

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)

Test Method: ANSI C63.10 (2020) Section 7.8.4

Limit:

Frequency(MHz)	Limit
902-928	0.4S within a 20S period(20dB bandwidth<250kHz)
	0.4S within a 10S period(20dB bandwidth≥250kHz)
2400-2483.5	0.4S within a period of 0.4S multiplied by the number of hopping channels
5725-5850	0.4S within a 30S period

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 25.9 °C

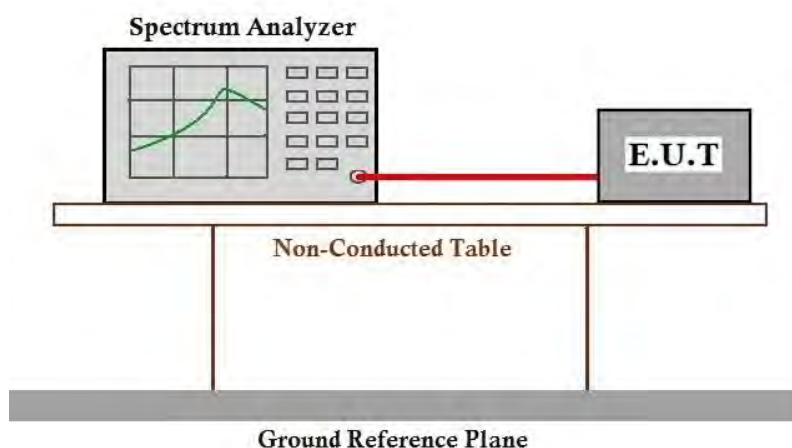
Humidity: 46.5 % RH

Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.9 Conducted Band Edges Measurement

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

Test Method: ANSI C63.10 (2020) Section 7.8.7.2

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)).

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 25.9 °C

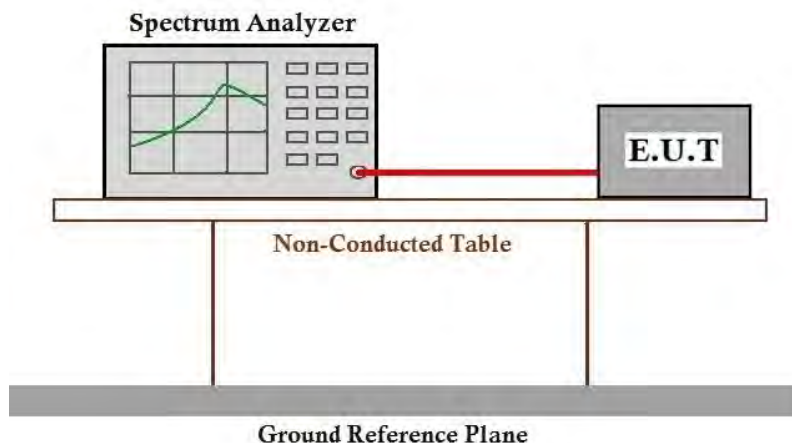
Humidity: 46.5 % RH

Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	01	TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram





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7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.10 Conducted Spurious Emissions

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

Test Method: ANSI C63.10 (2020) Section 7.8.7

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)).

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 25.9 °C

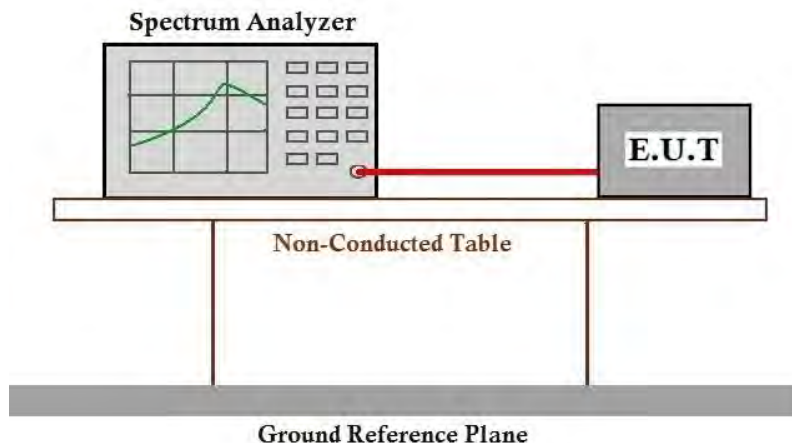
Humidity: 46.5 % RH

Atmospheric Pressure: 1010 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram





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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 KSCR2509002199AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix_Photographs of EUT Constructional Details for KSCR2509002199AT

10 Appendix

Left Earbud

1. Bandwidth

1.1 Test Result

1.1.1 OBW

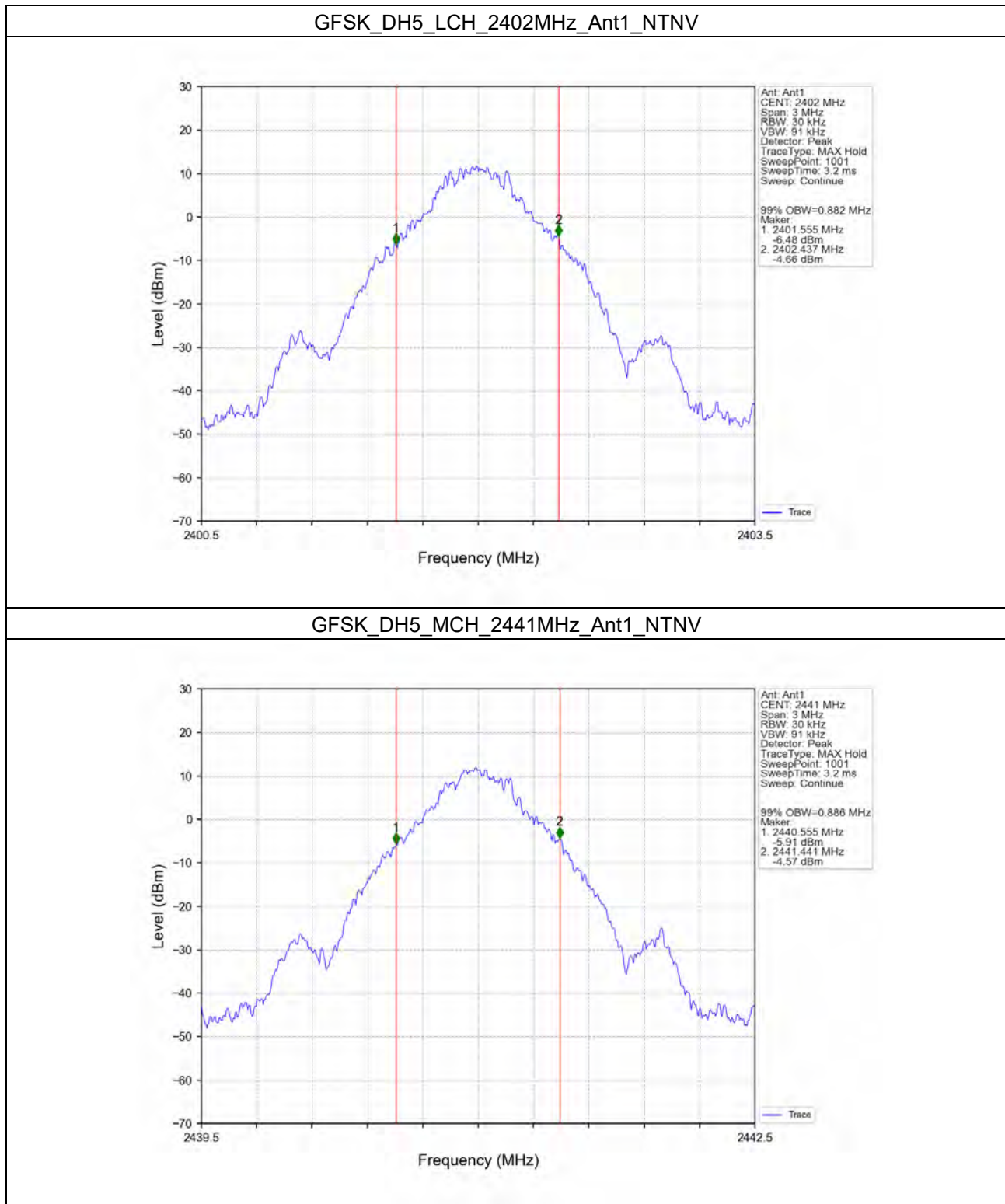
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.882	/	Pass
		2441	DH5	1	0.886	/	Pass
		2480	DH5	1	0.888	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.206	/	Pass
		2441	2DH5	1	1.200	/	Pass
		2480	2DH5	1	1.199	/	Pass
8DPSK	SISO	2402	3DH5	1	1.153	/	Pass
		2441	3DH5	1	1.200	/	Pass
		2480	3DH5	1	1.199	/	Pass

1.1.2 20dB BW

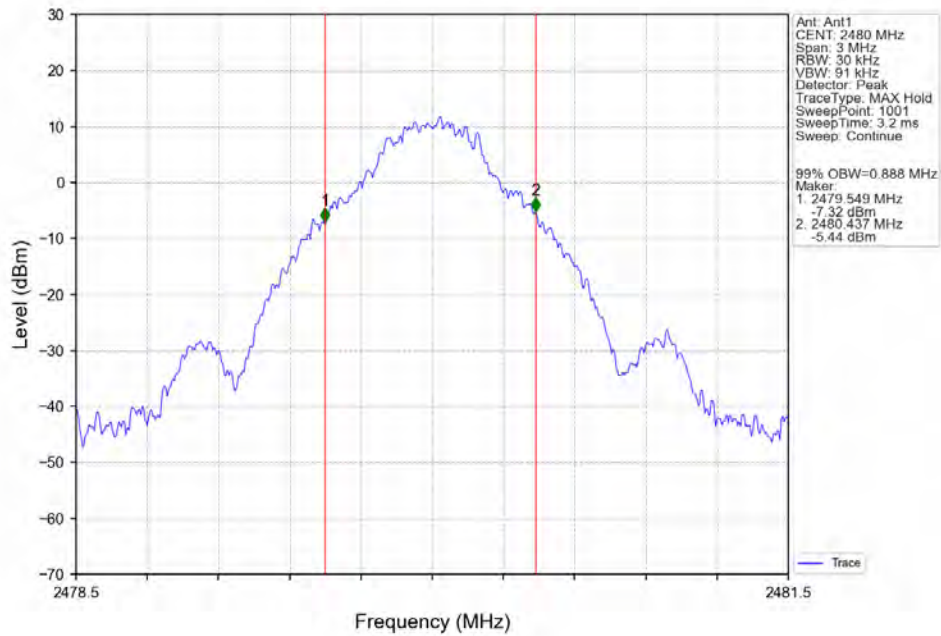
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.942	/	Pass
		2441	DH5	1	0.981	/	Pass
		2480	DH5	1	1.026	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.314	/	Pass
		2441	2DH5	1	1.282	/	Pass
		2480	2DH5	1	1.327	/	Pass
8DPSK	SISO	2402	3DH5	1	1.283	/	Pass
		2441	3DH5	1	1.295	/	Pass
		2480	3DH5	1	1.268	/	Pass

1.2 Test Graph

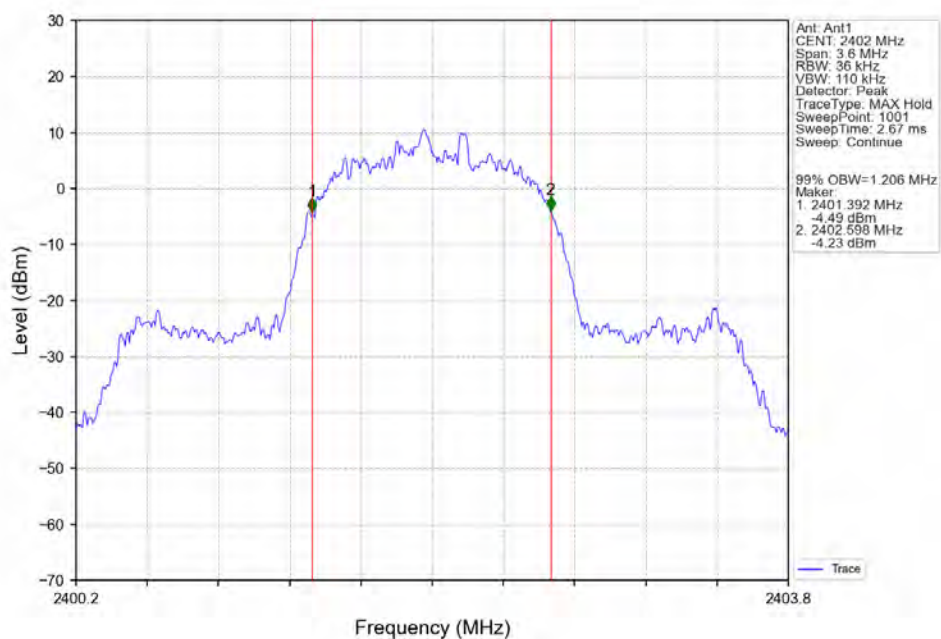
1.2.1 OBW



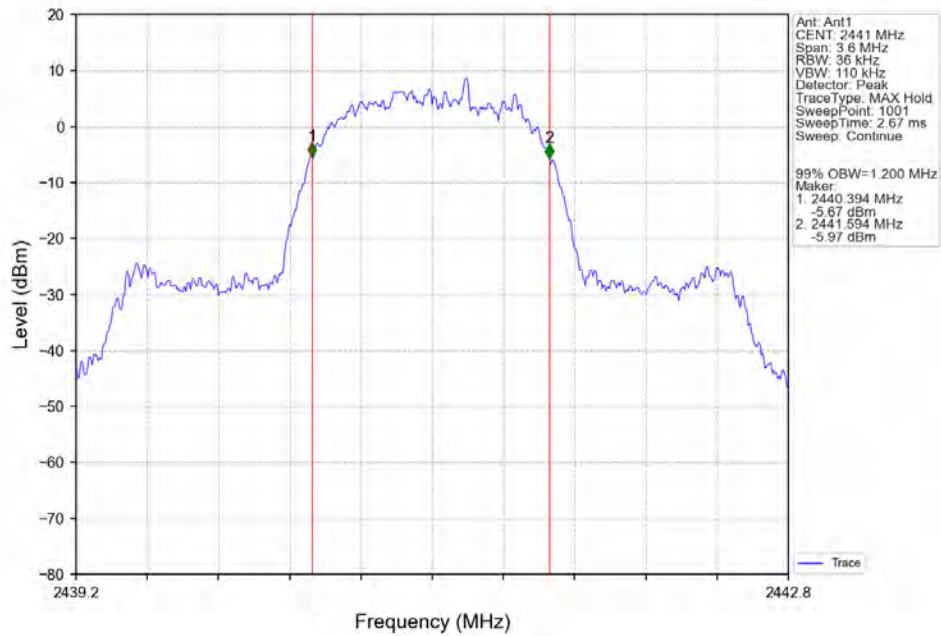
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



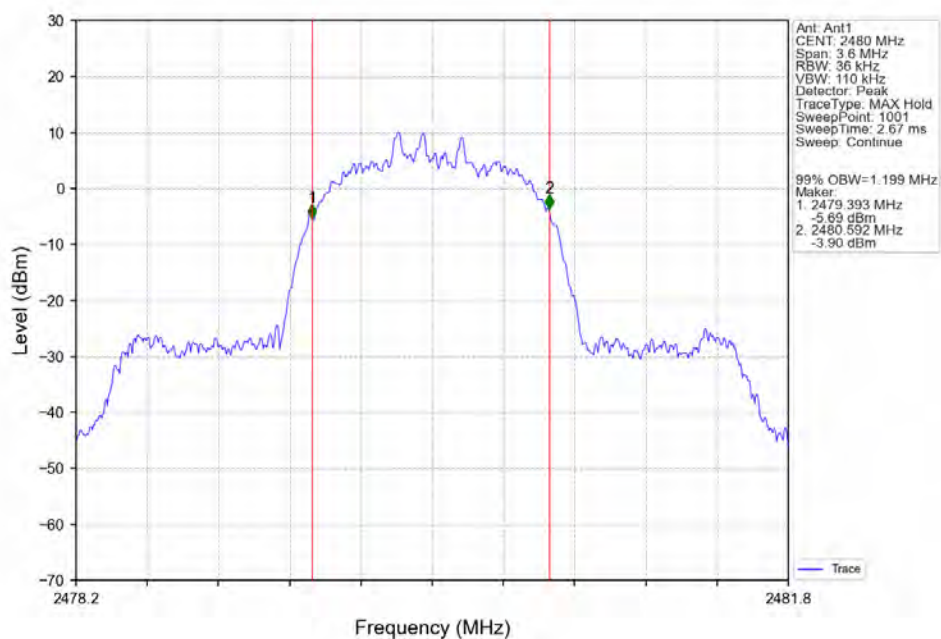
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



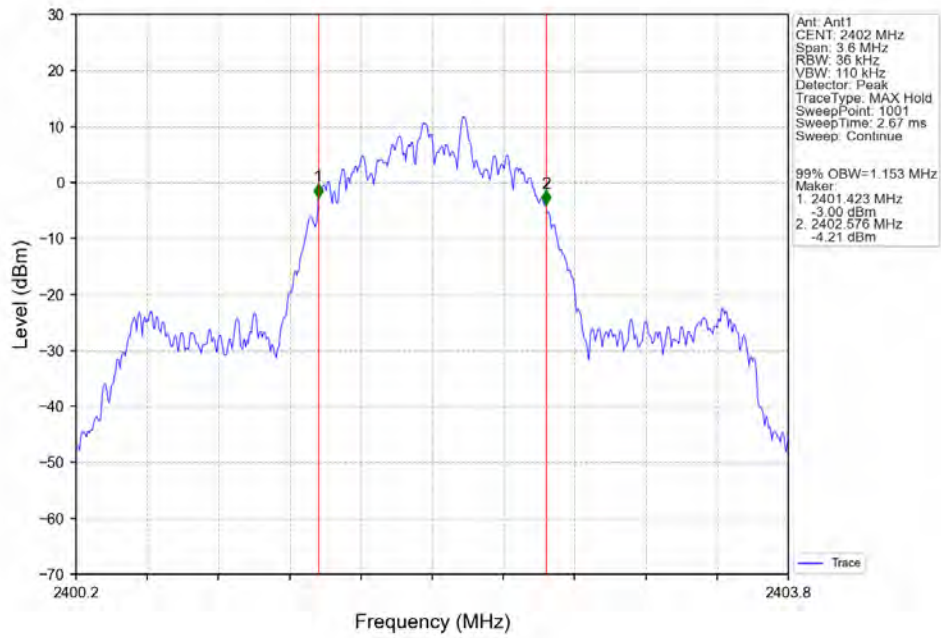
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



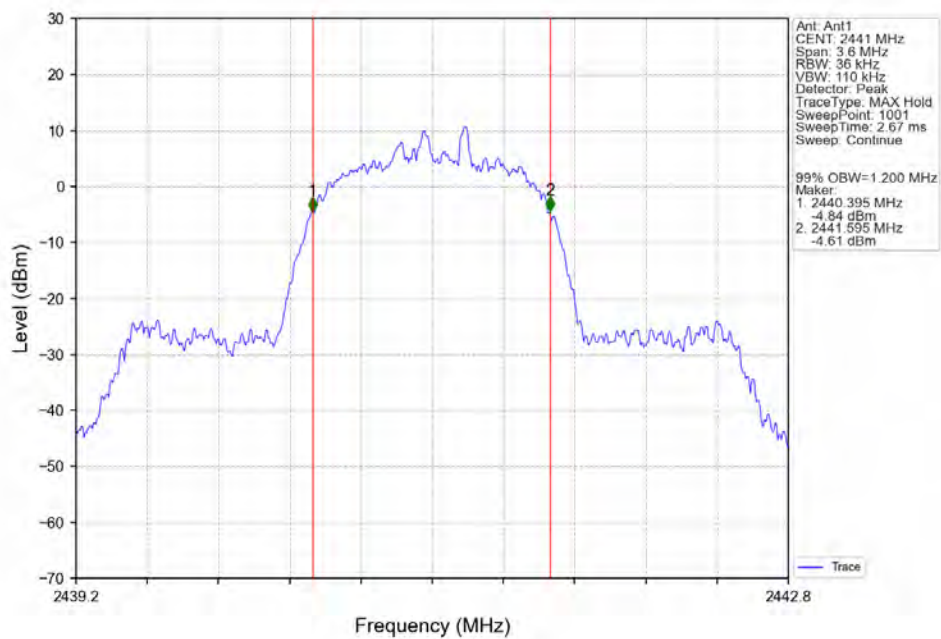
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



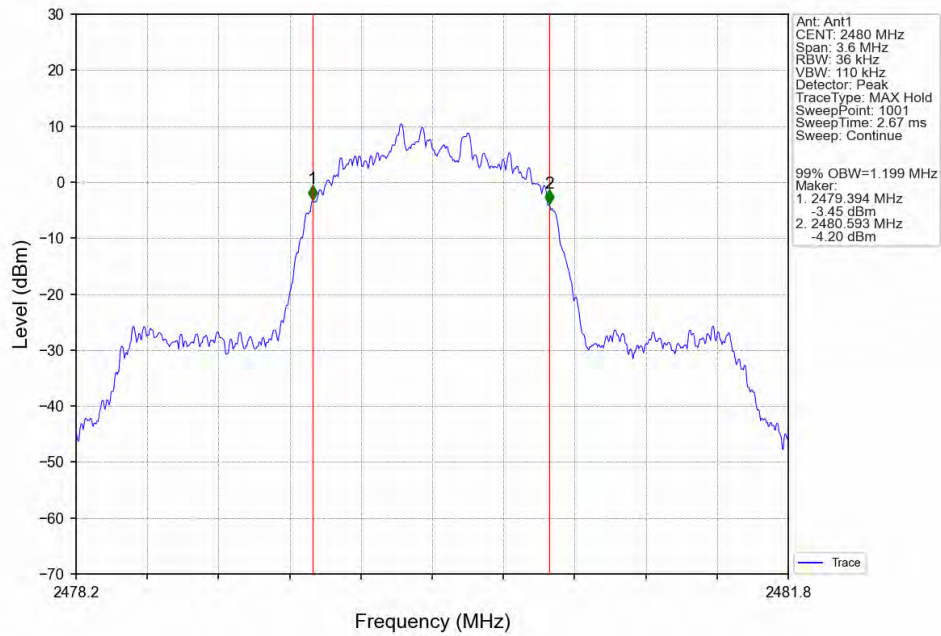
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

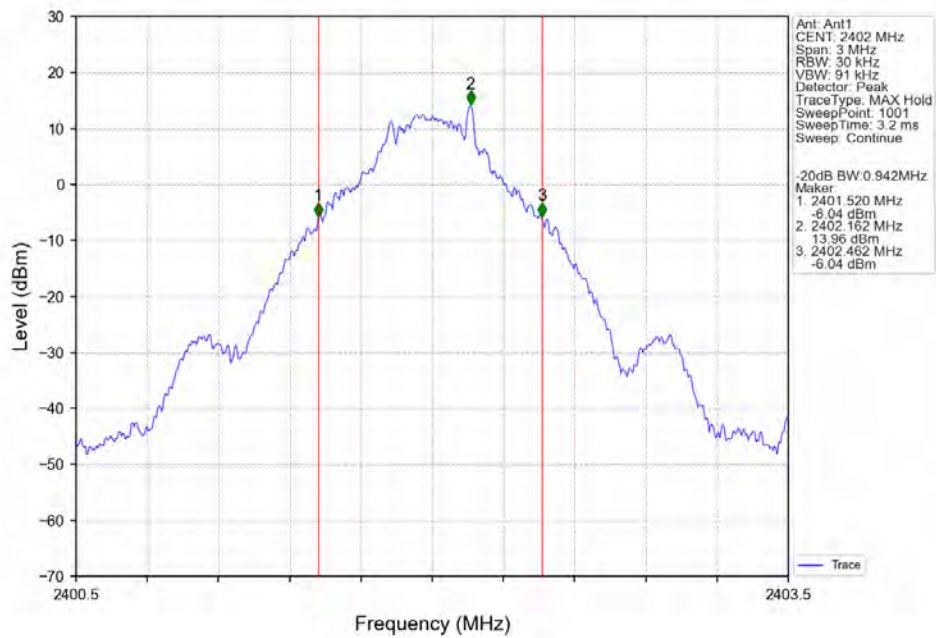


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

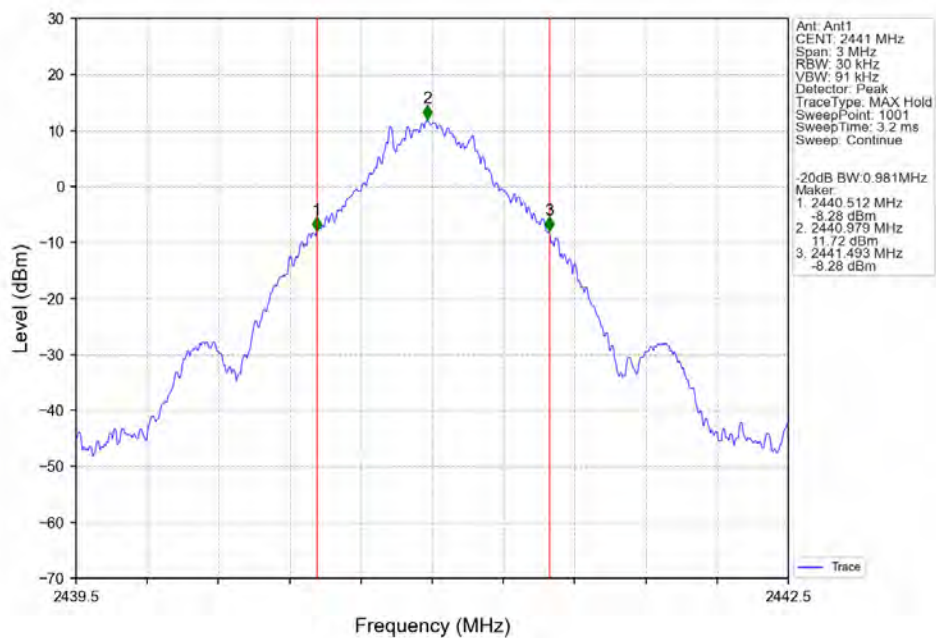


1.2.2 20dB BW

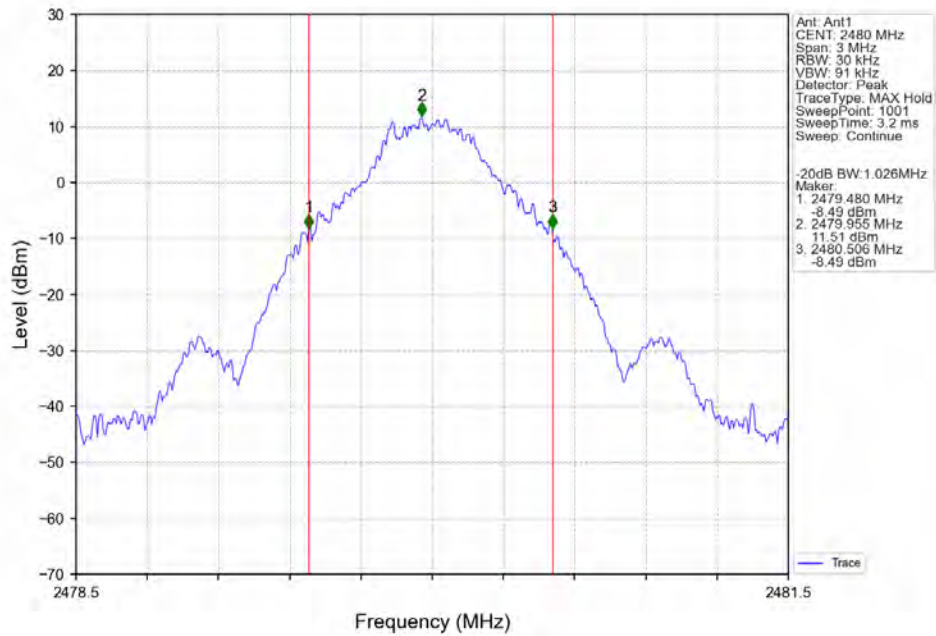
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



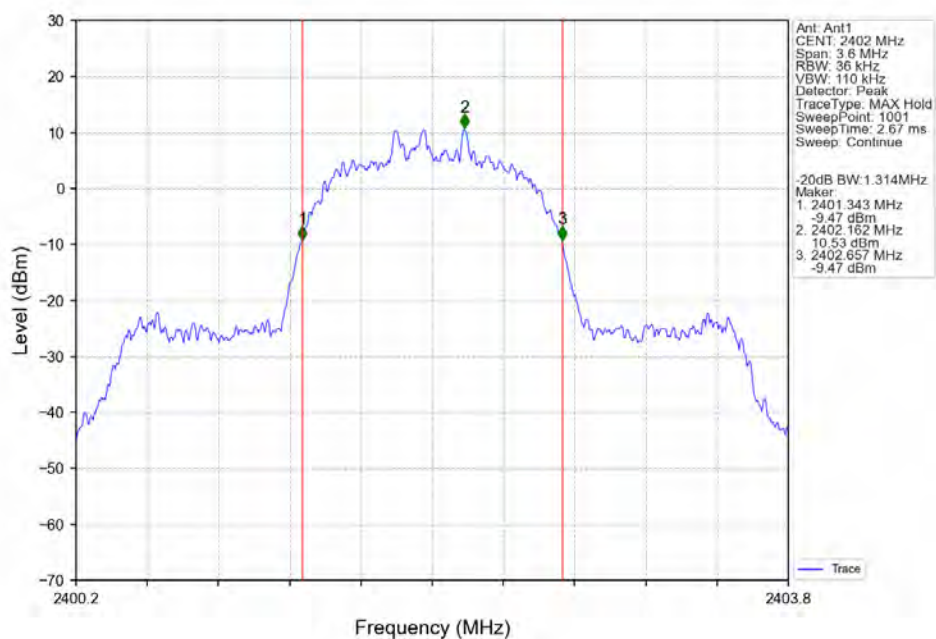
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



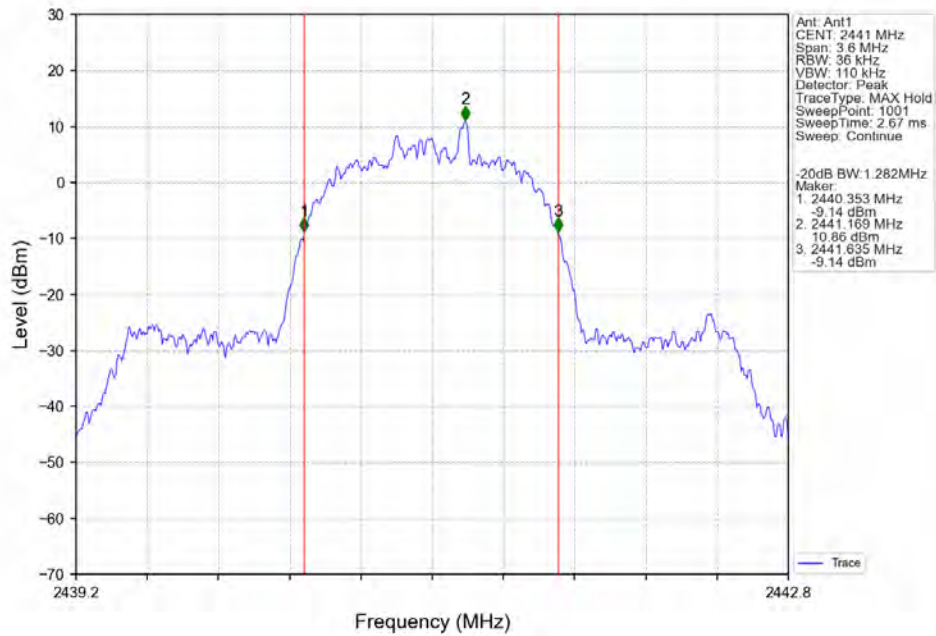
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



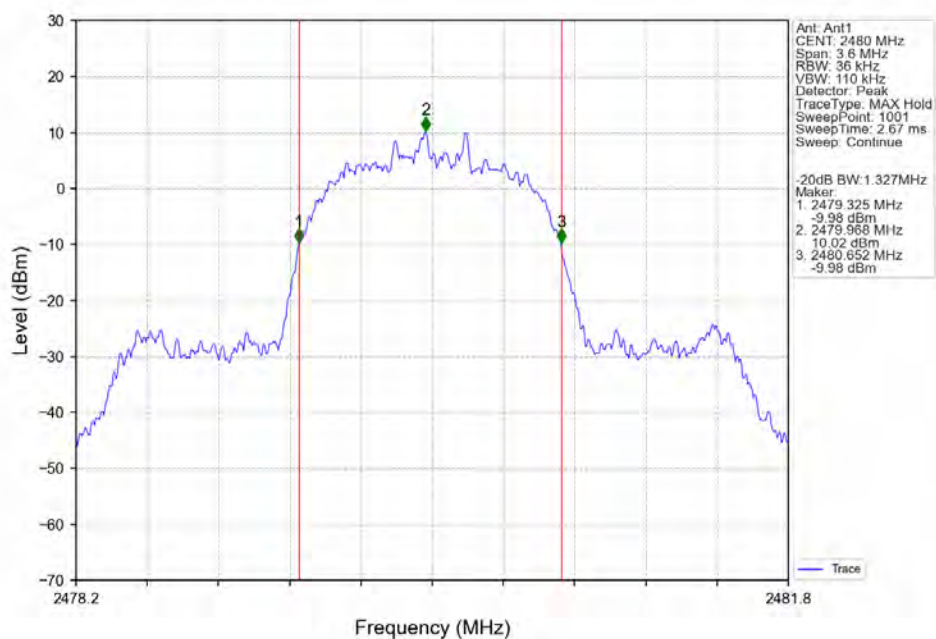
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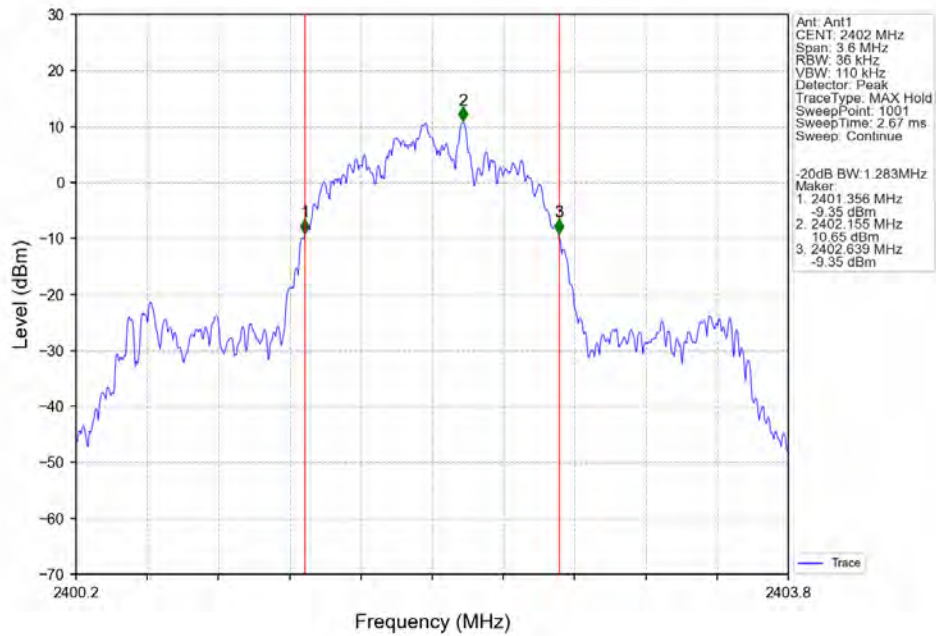
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



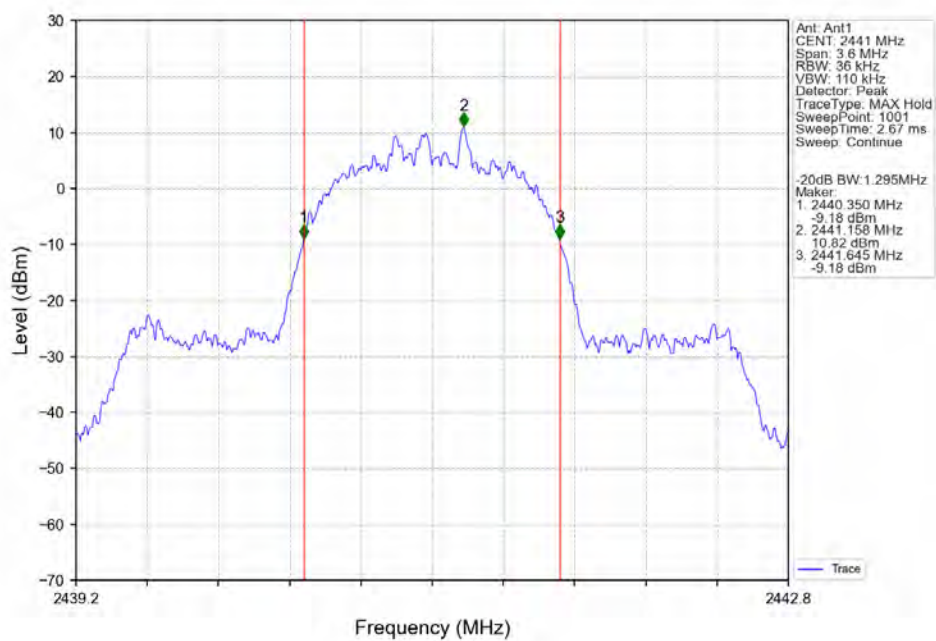
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



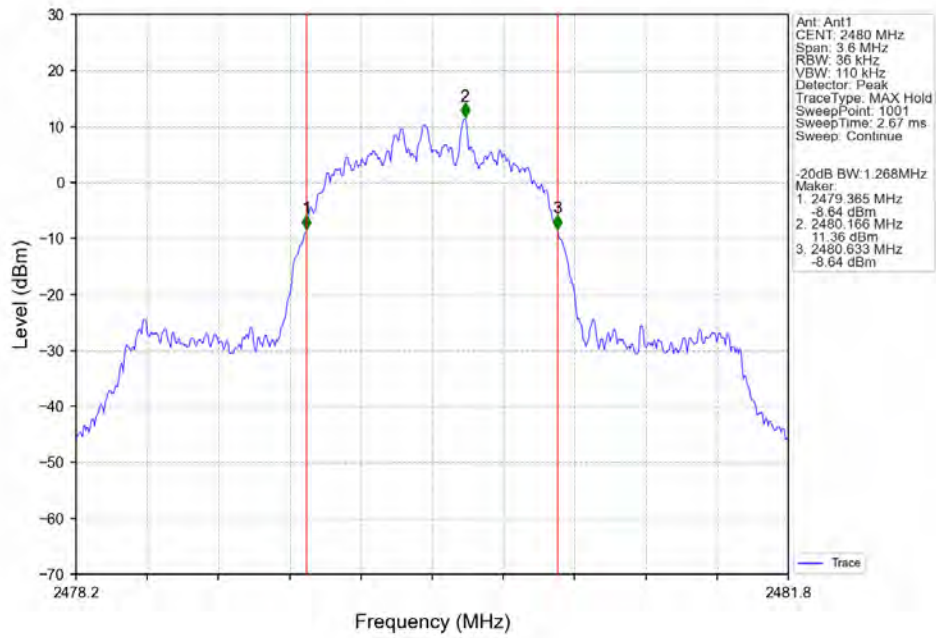
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV





2. Maximum Conducted Output Power

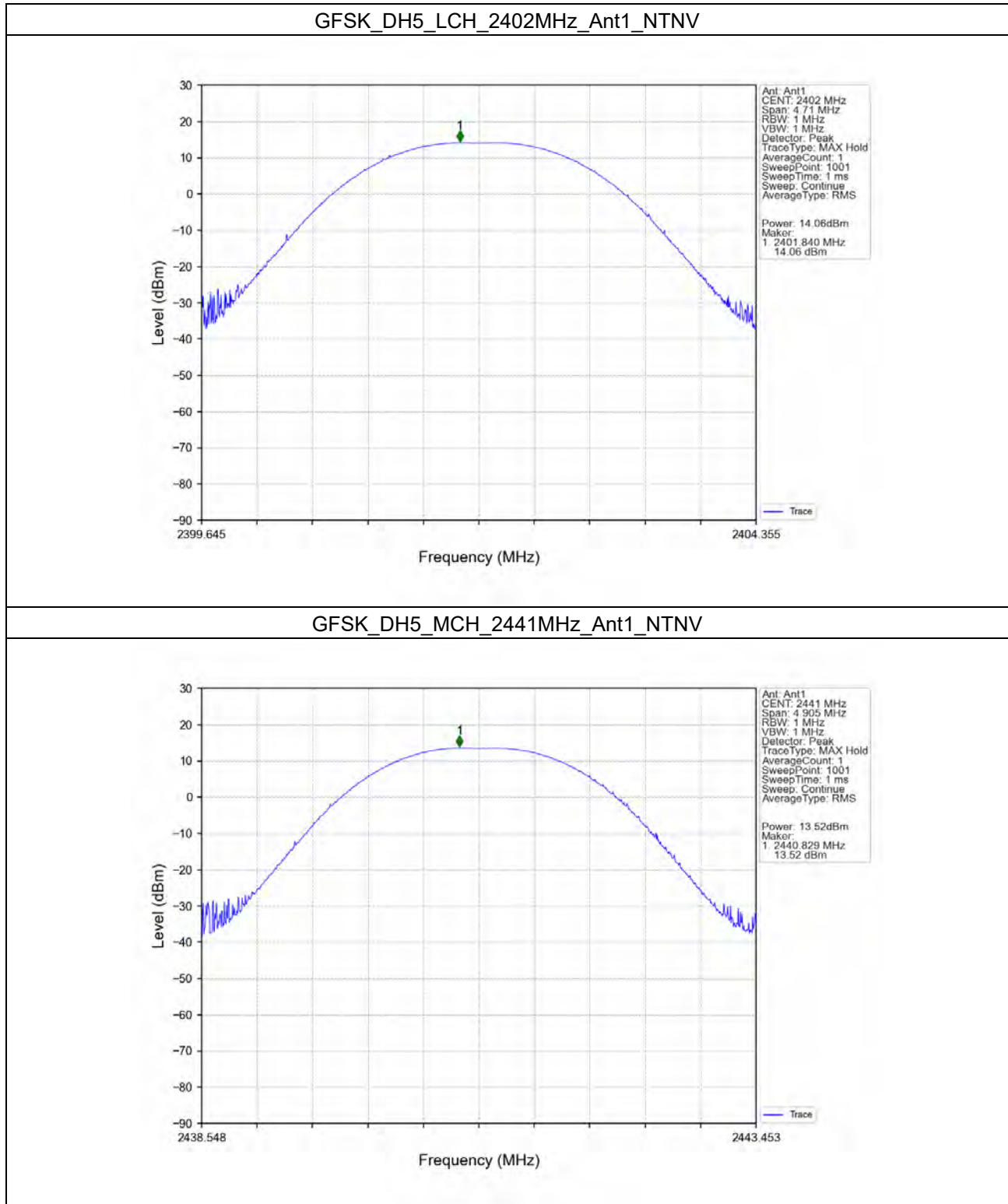
2.1 Test Result

2.1.1 Power

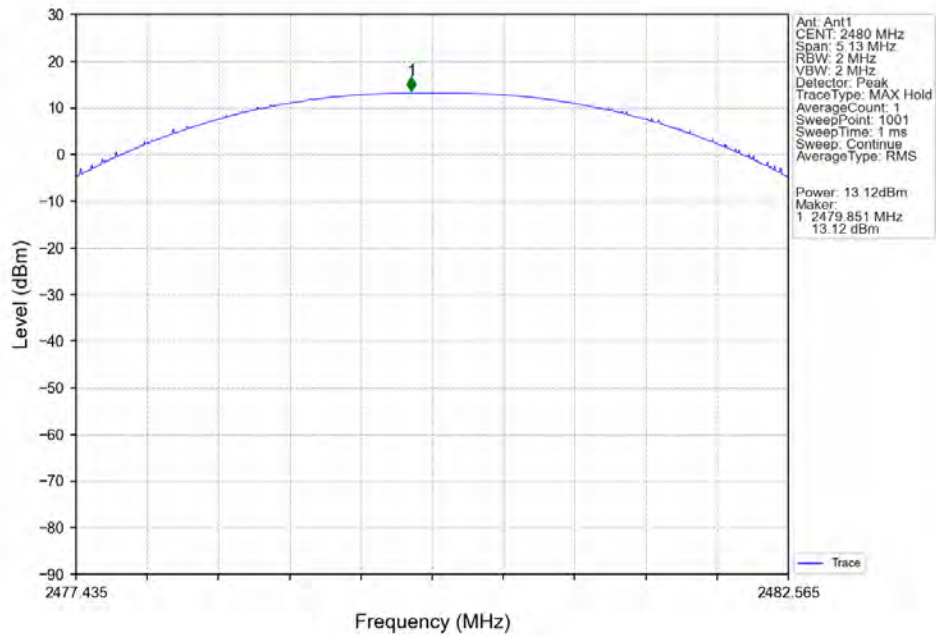
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	14.06	<=20.97	Pass
		2441	DH5	13.52	<=20.97	Pass
		2480	DH5	13.12	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	13.12	<=20.97	Pass
		2441	2DH5	12.59	<=20.97	Pass
		2480	2DH5	12.82	<=20.97	Pass
8DPSK	SISO	2402	3DH5	13.22	<=20.97	Pass
		2441	3DH5	12.46	<=20.97	Pass
		2480	3DH5	12.95	<=20.97	Pass
Note1: Antenna Gain: Ant1: 2.63dBi;						

2.2 Test Graph

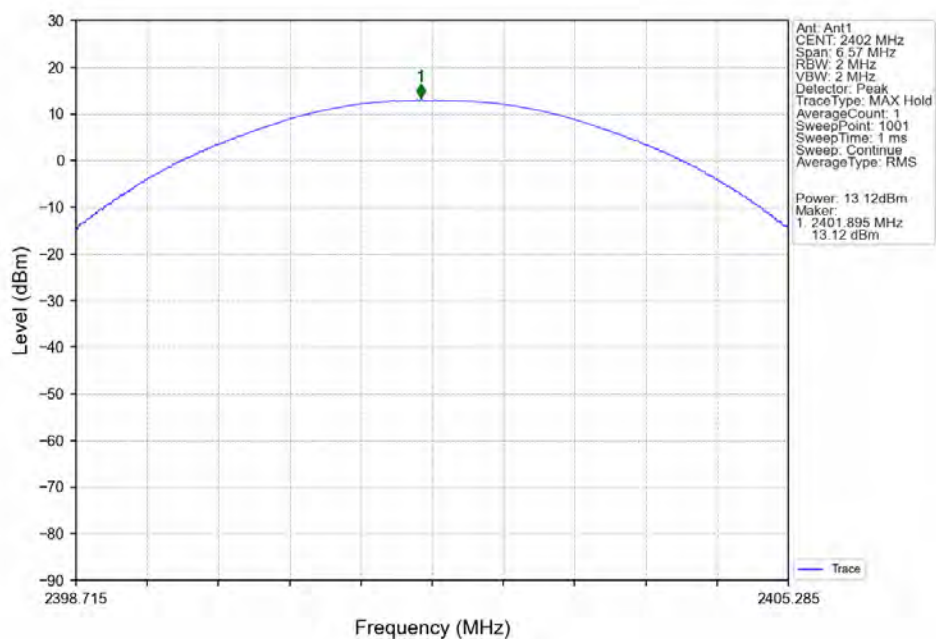
2.2.1 Power



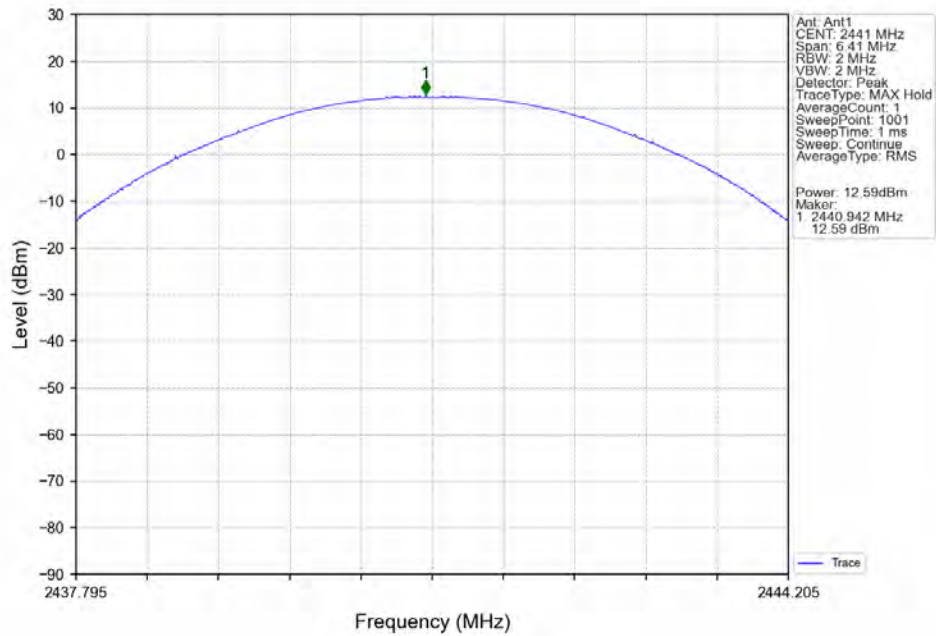
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



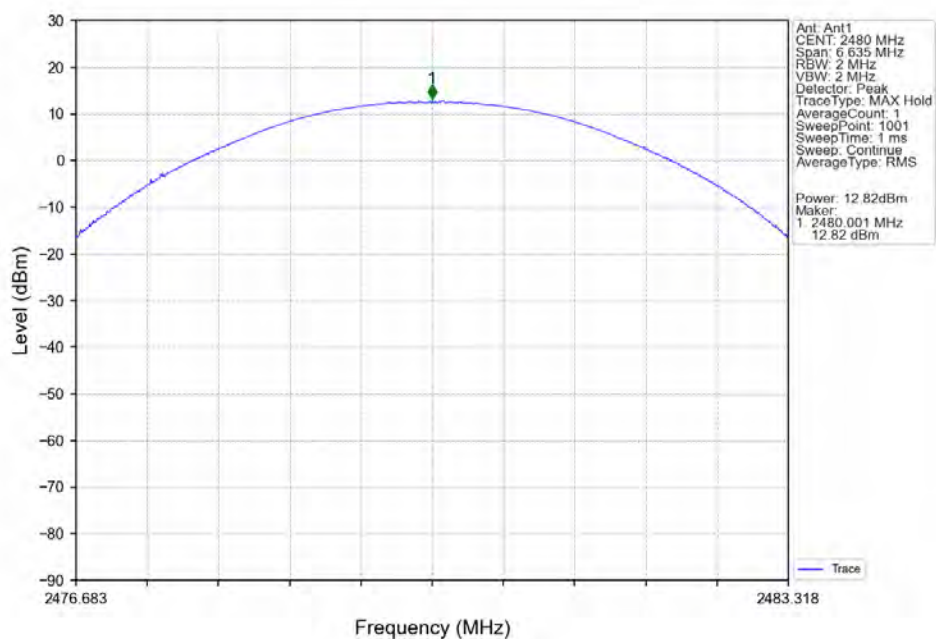
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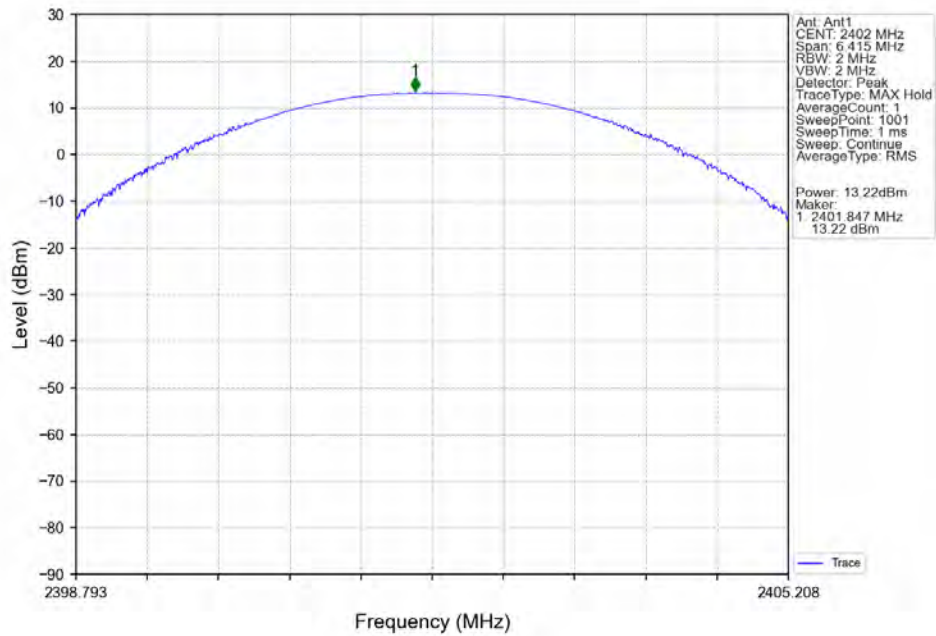
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



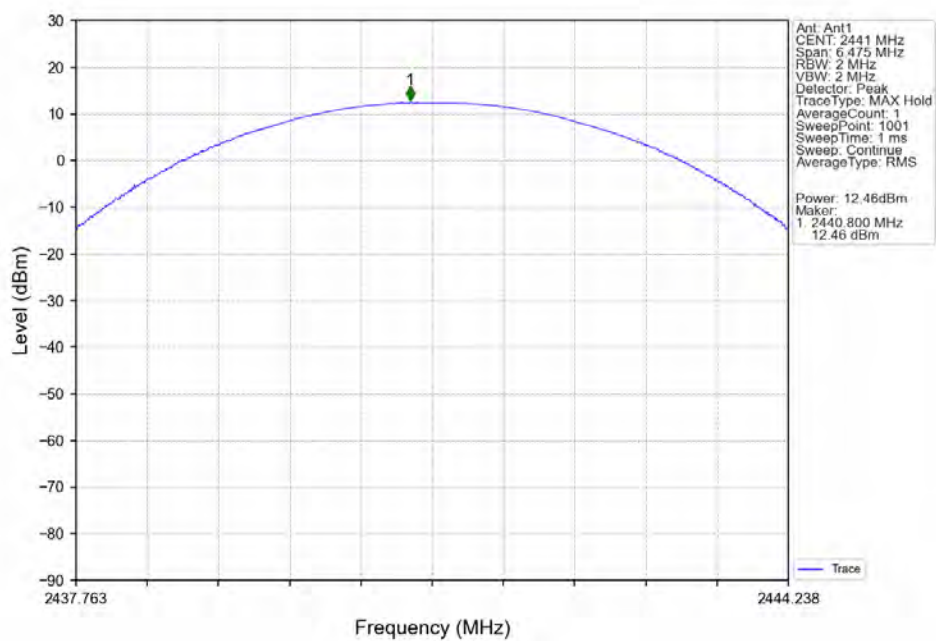
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



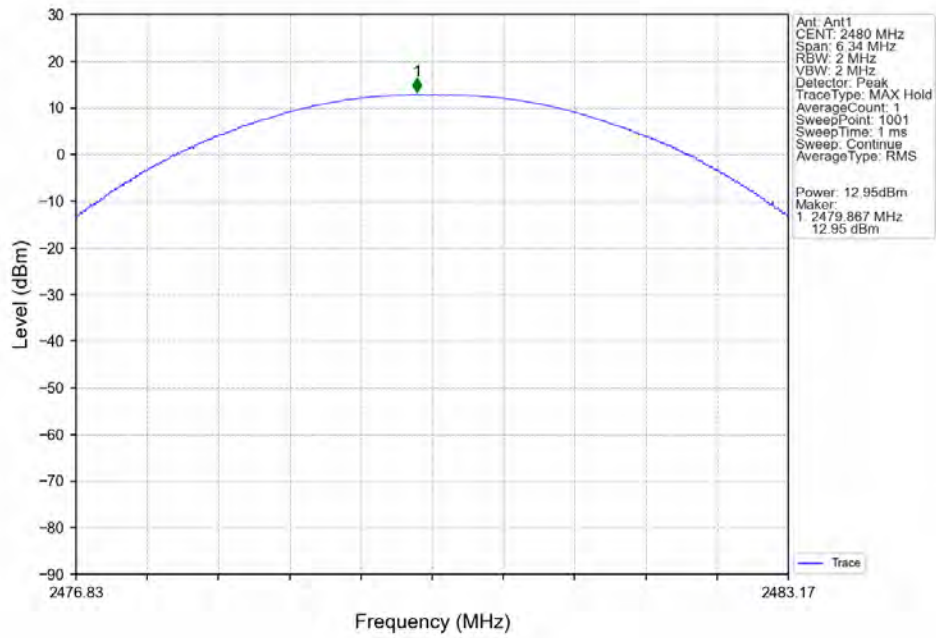
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV





3. Carrier Frequency Separation

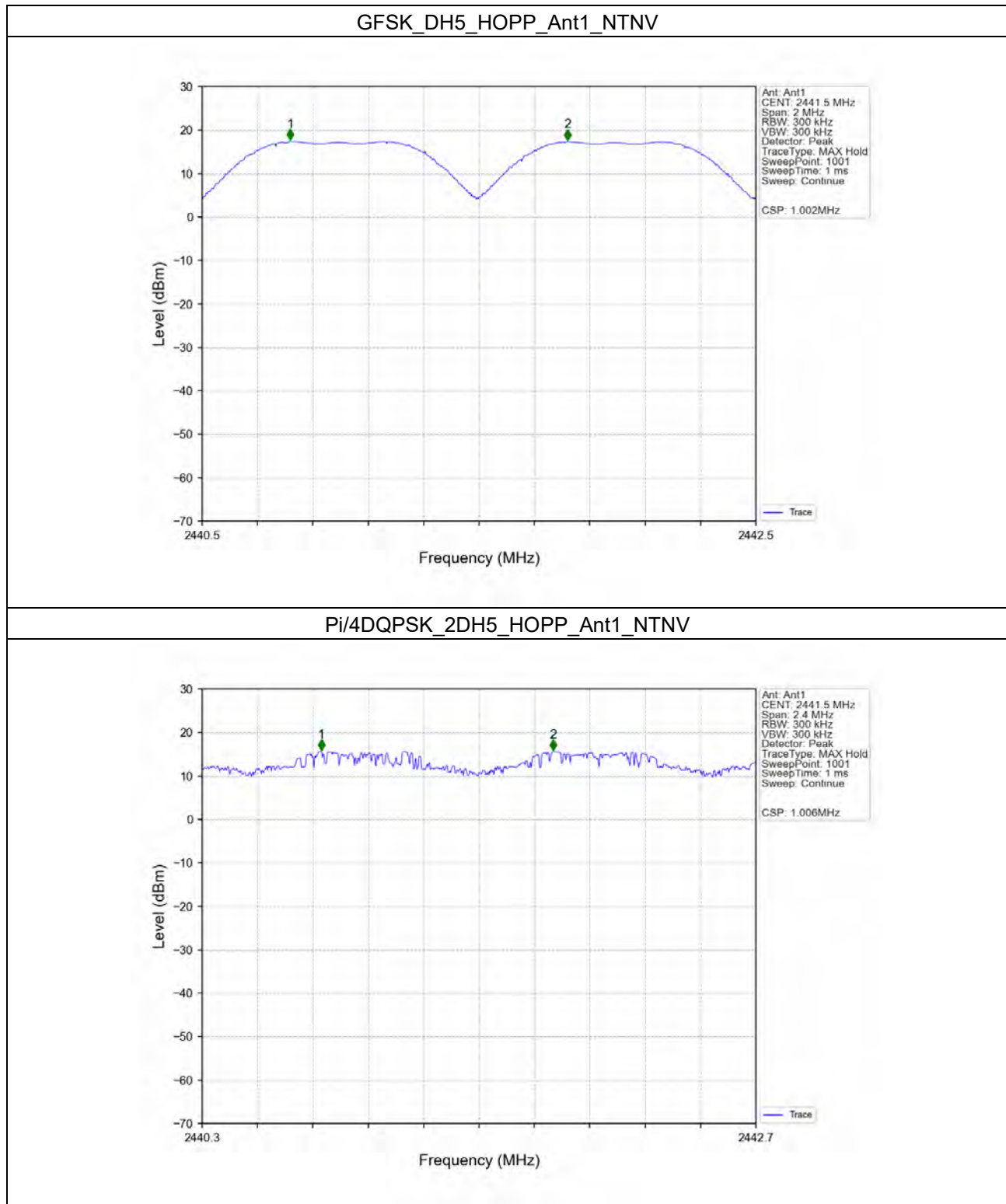
3.1 Test Result

3.1.1 Ant1

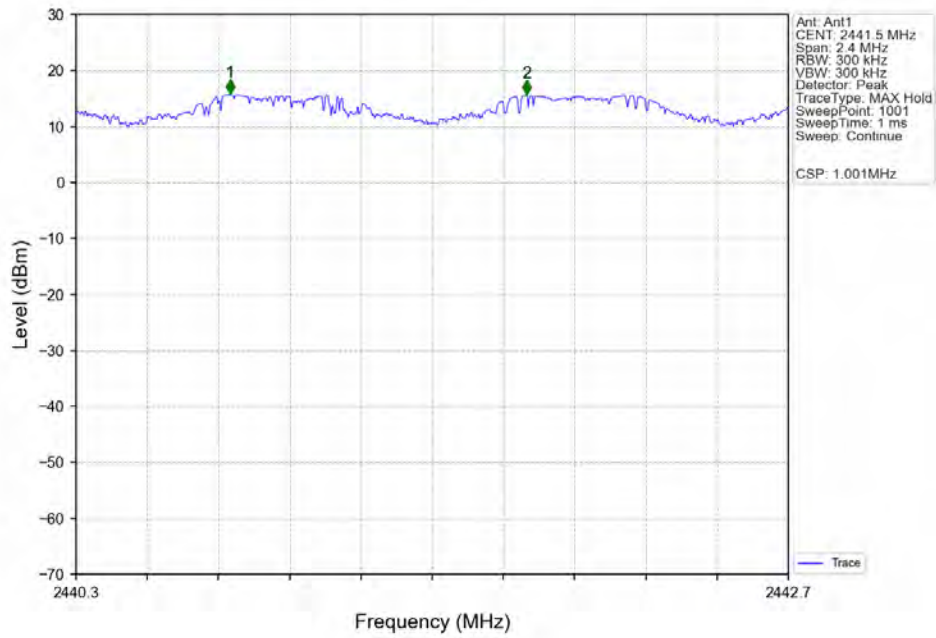
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.002	1.026	≥ 0.684	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.006	1.327	≥ 0.885	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.295	≥ 0.863	Pass

3.2 Test Graph

3.2.1 Ant1



8DPSK_3DH5_HOPP_Ant1_NTNV





4. Number of Hopping Frequencies

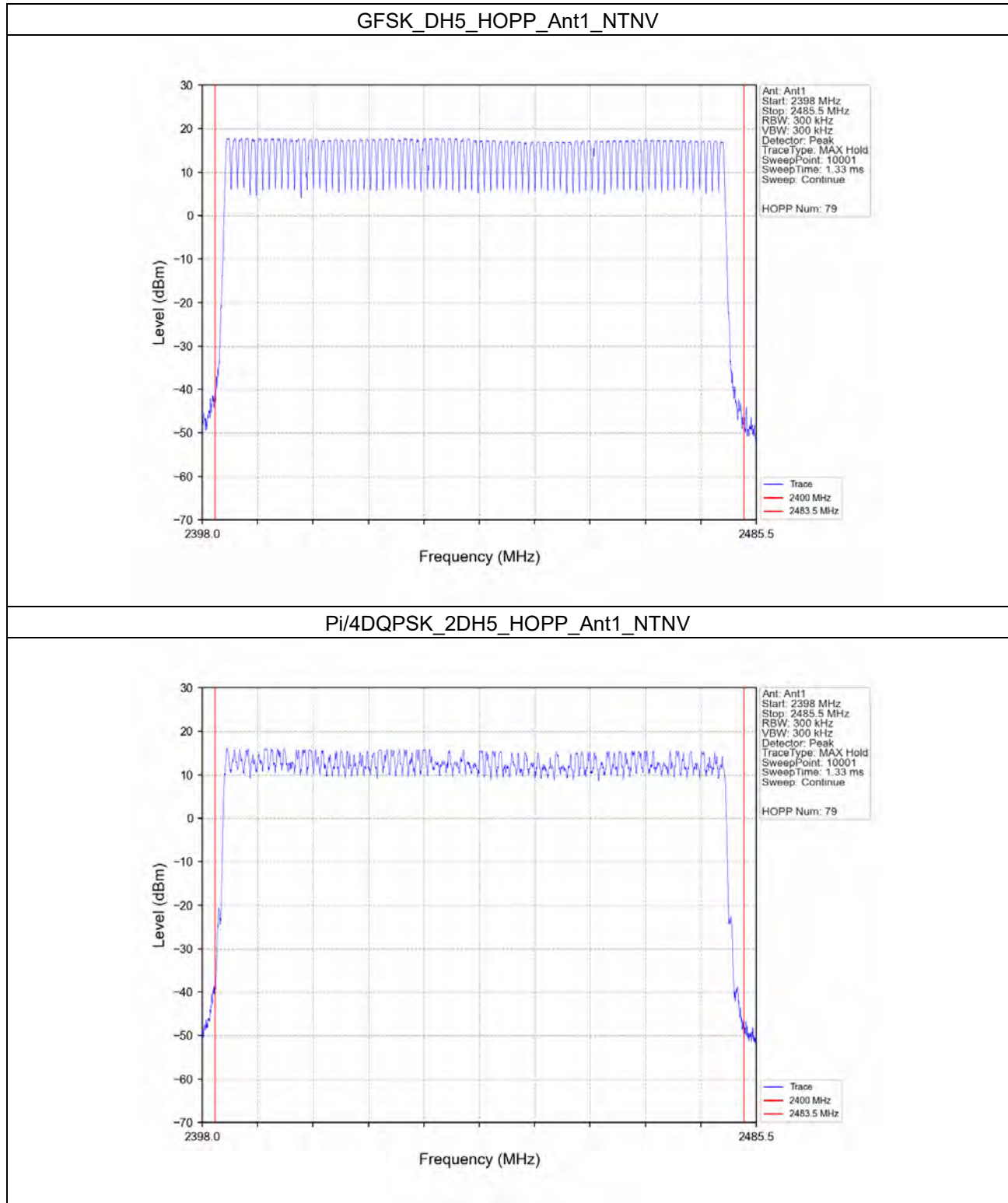
4.1 Test Result

4.1.1 HoppNum

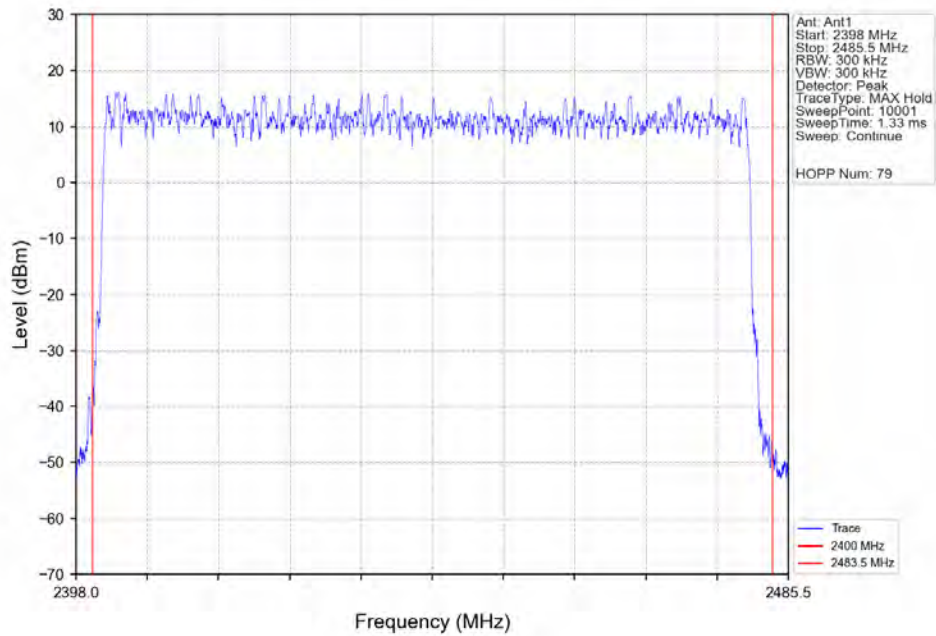
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
PI/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass

4.2 Test Graph

4.2.1 HoppNum



8DPSK_3DH5_HOPP_Ant1_NTNV



5. Time of Occupancy (Dwell Time)

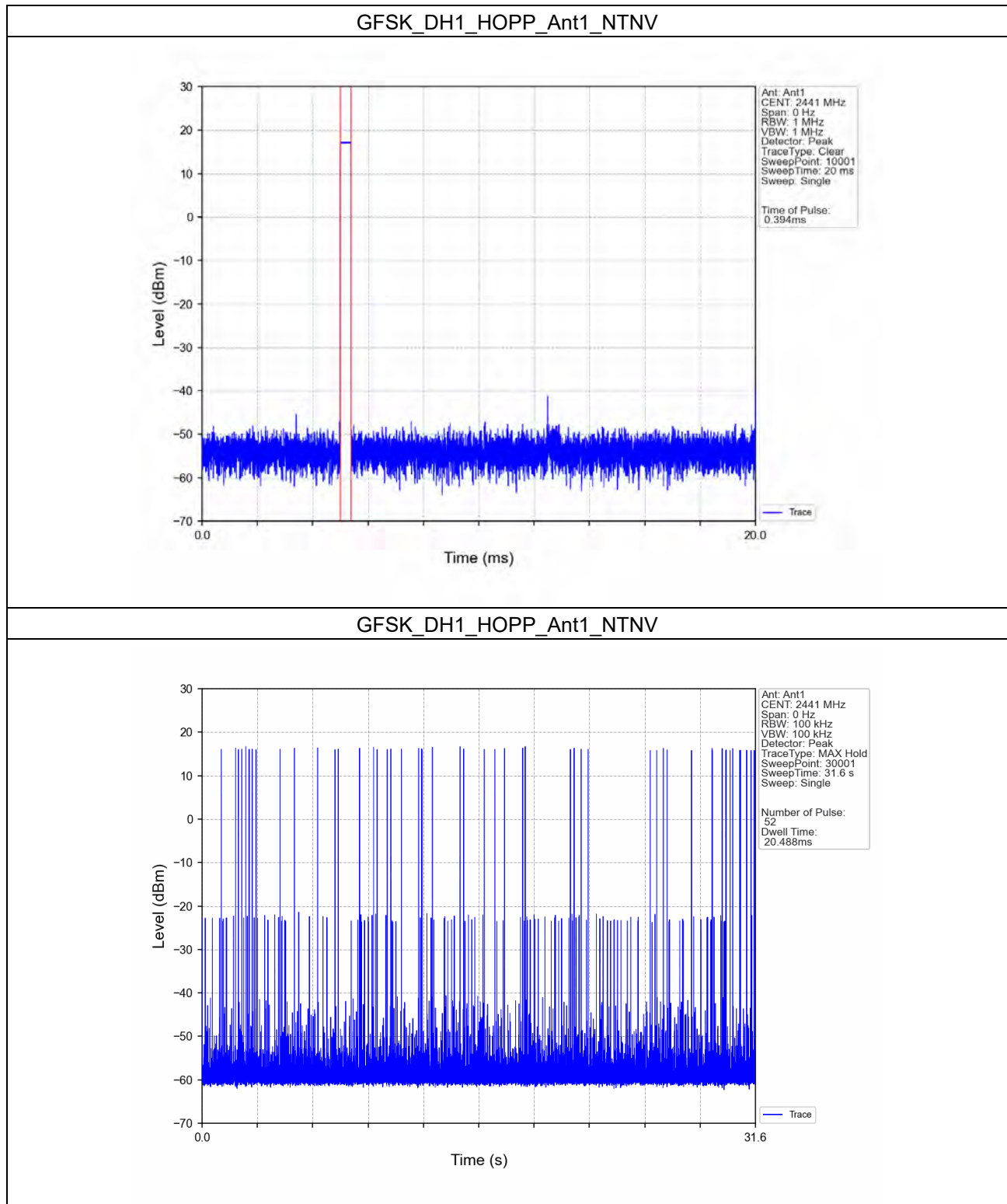
5.1 Test Result

5.1.1 Ant1

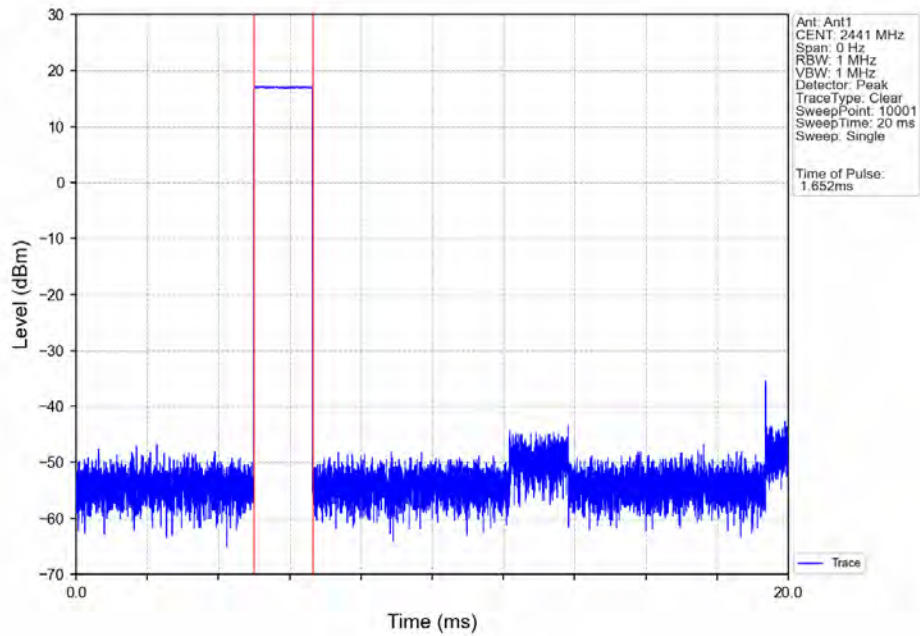
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.394	31.600	52	20.488	<=400	Pass
			DH3	1.652	31.600	57	94.164	<=400	Pass
			DH5	2.900	31.600	59	171.100	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.404	31.600	59	23.836	<=400	Pass
			2DH3	1.654	31.600	63	104.202	<=400	Pass
			2DH5	2.890	31.600	65	187.850	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.404	31.600	50	20.200	<=400	Pass
			3DH3	1.652	31.600	48	79.296	<=400	Pass
			3DH5	2.904	31.600	56	162.624	<=400	Pass

5.2 Test Graph

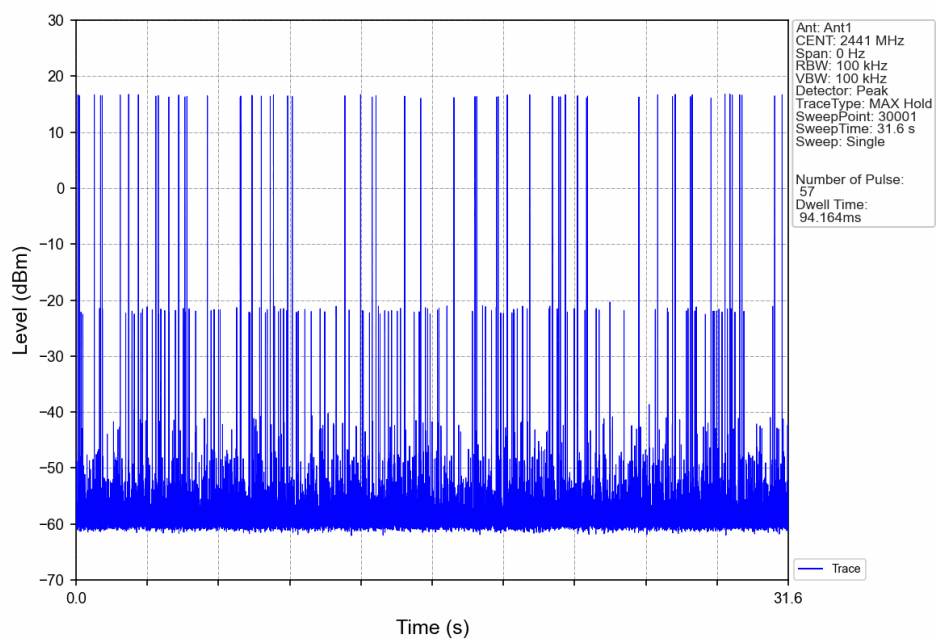
5.2.1 Ant1



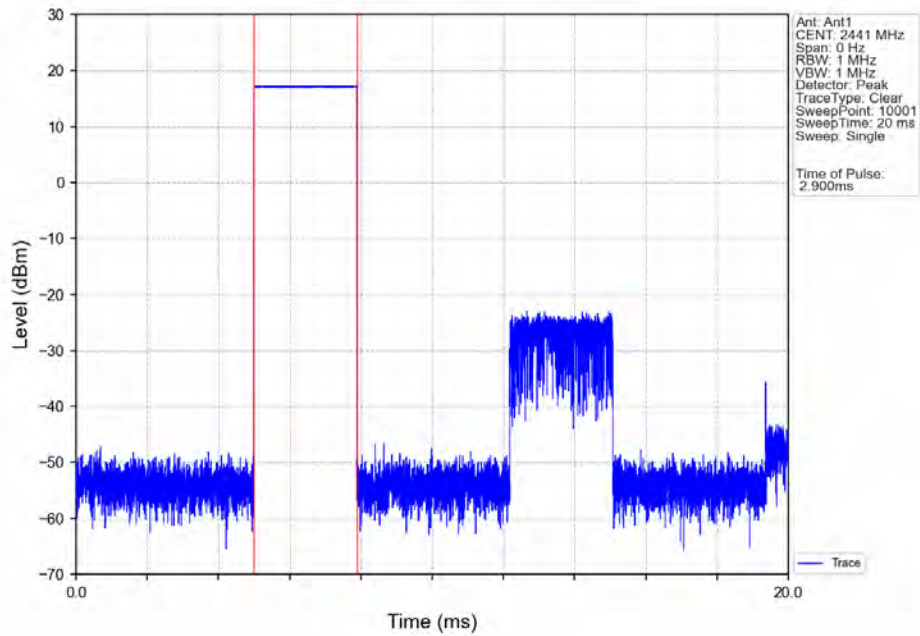
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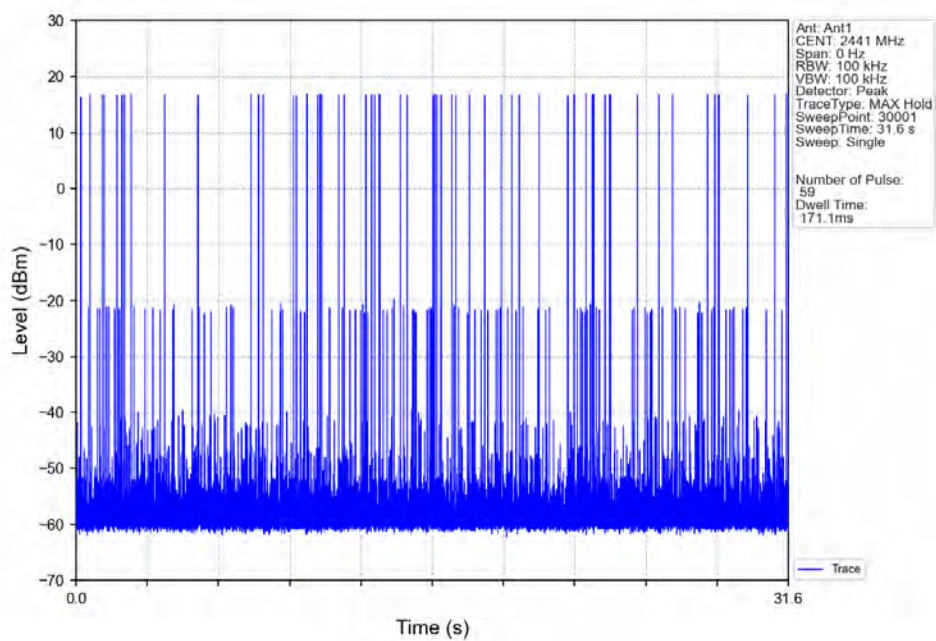
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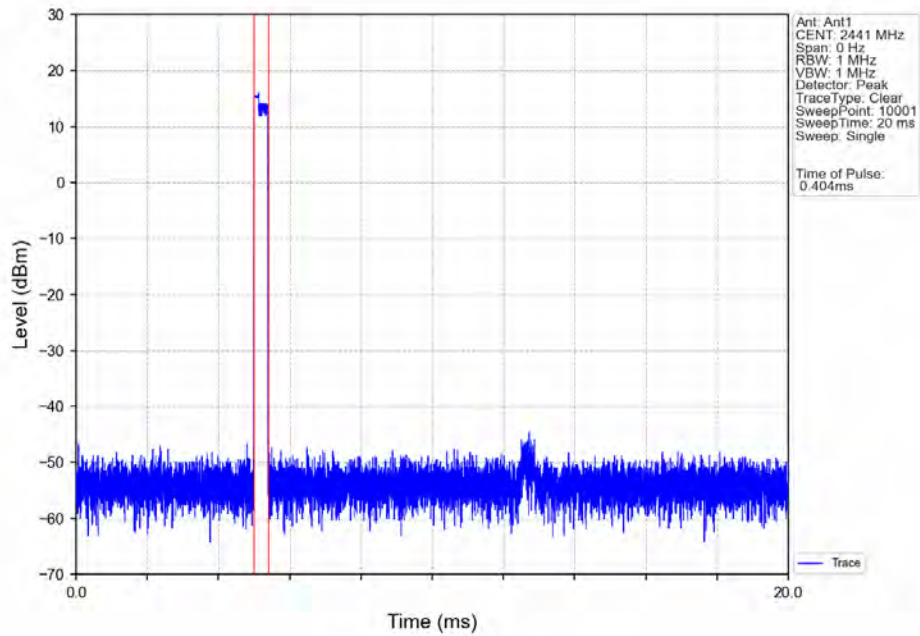
GFSK_DH5_HOPP_Ant1_NTNV



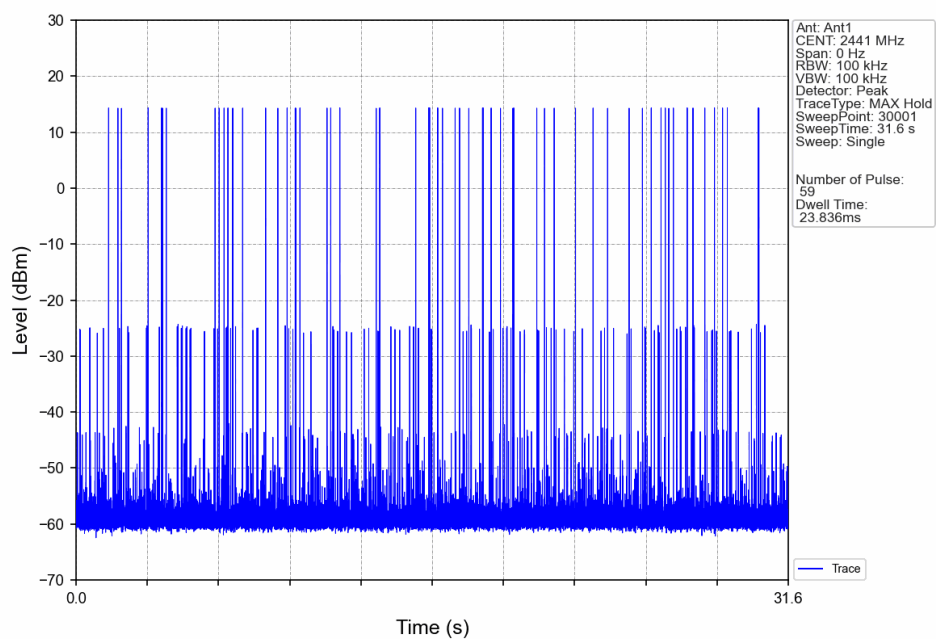
GFSK_DH5_HOPP_Ant1_NTNV



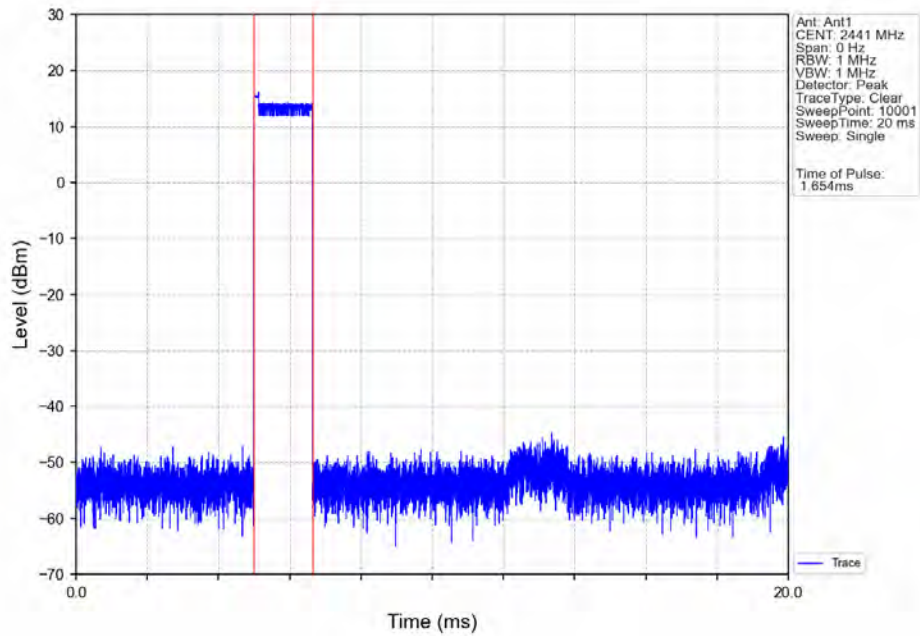
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



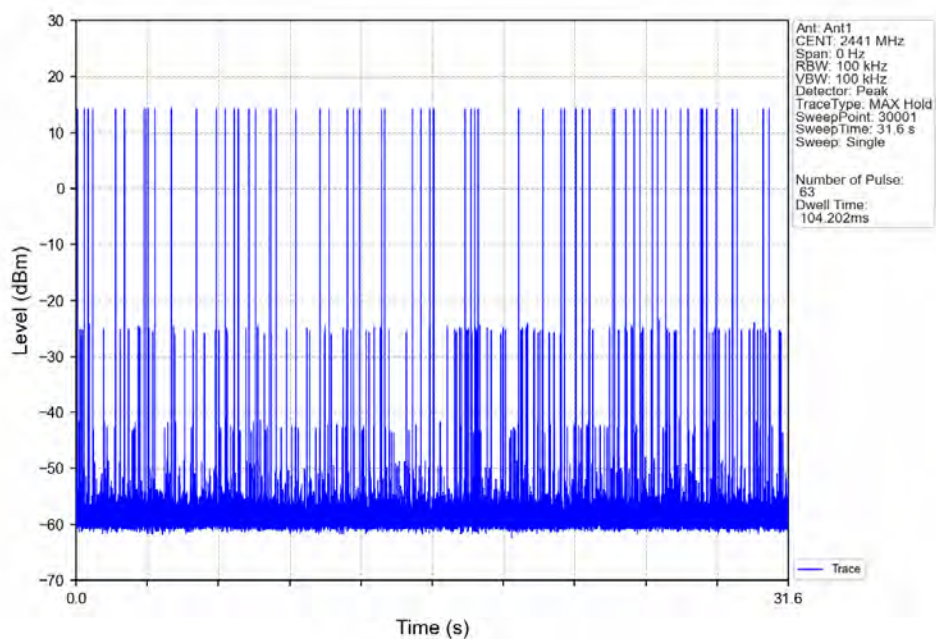
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



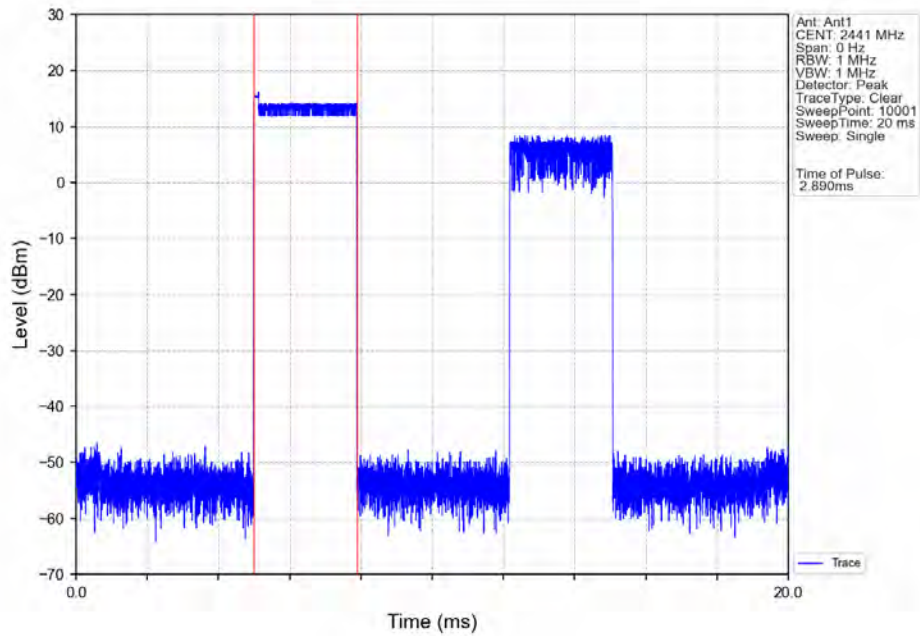
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



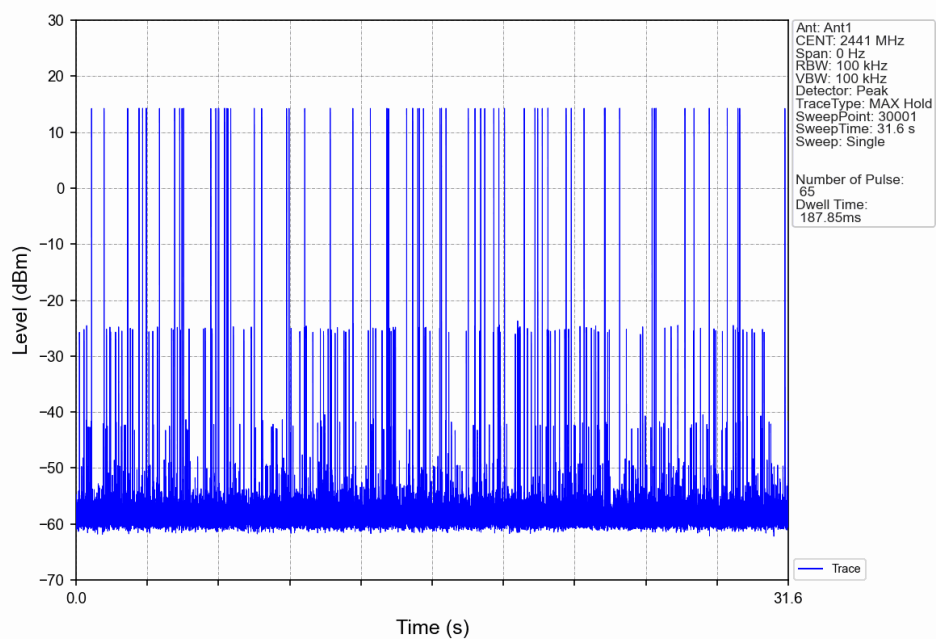
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



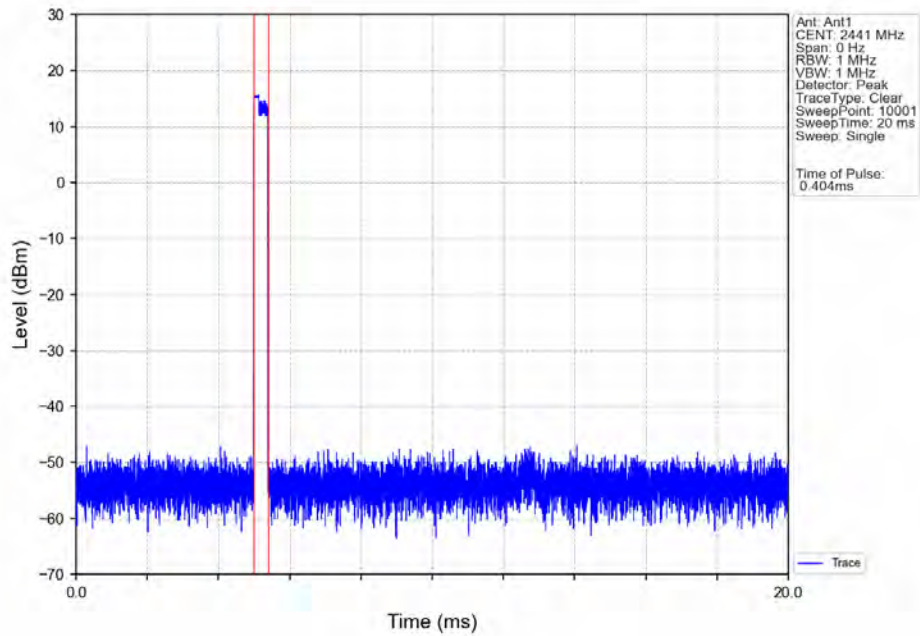
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



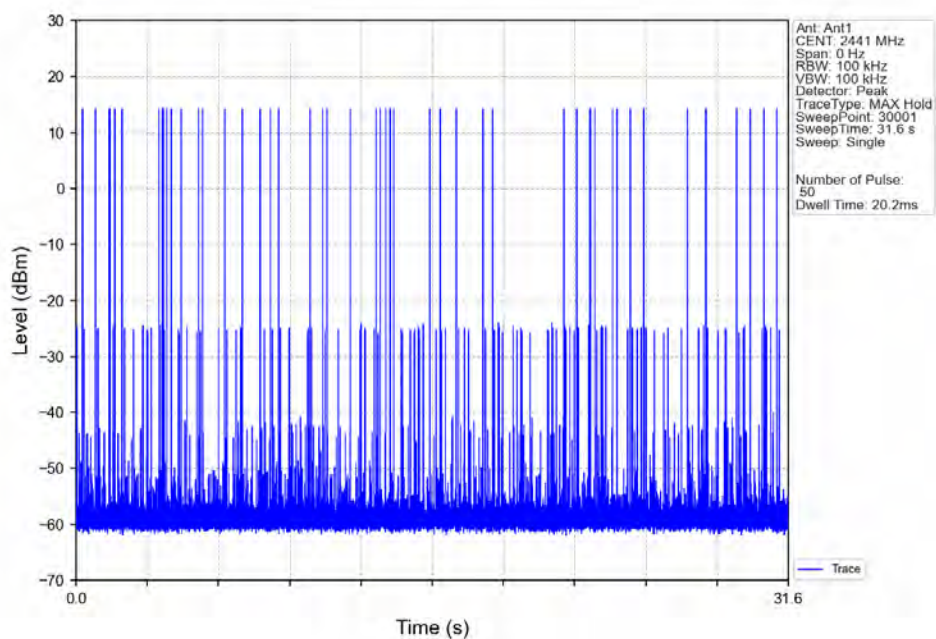
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



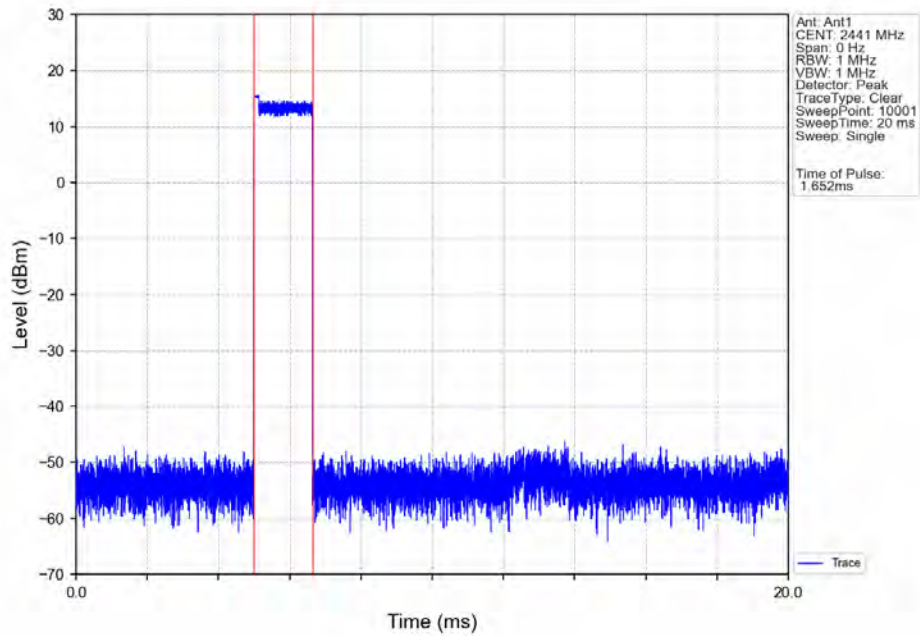
8DPSK_3DH1_HOPP_Ant1_NTNV



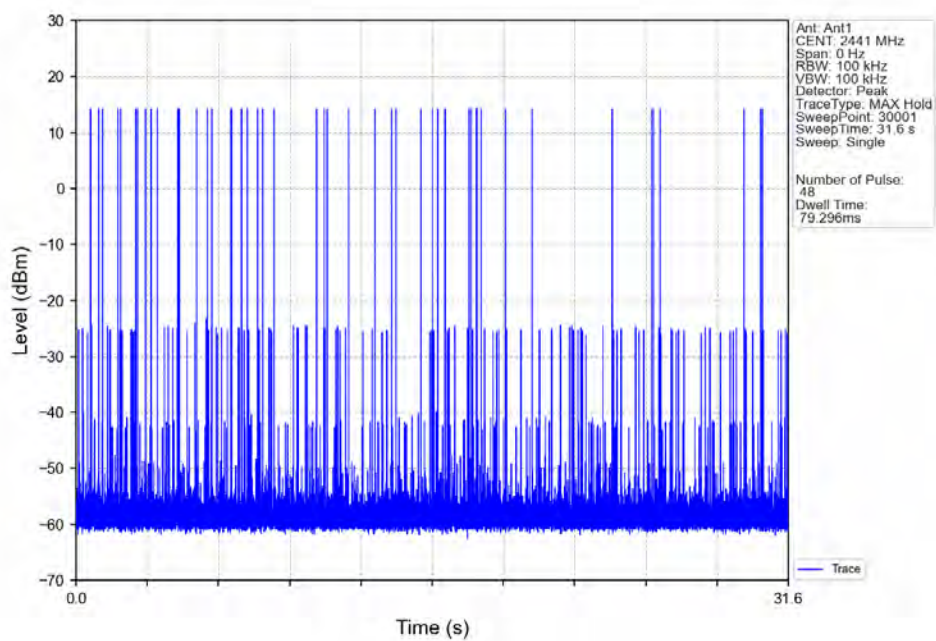
8DPSK_3DH1_HOPP_Ant1_NTNV



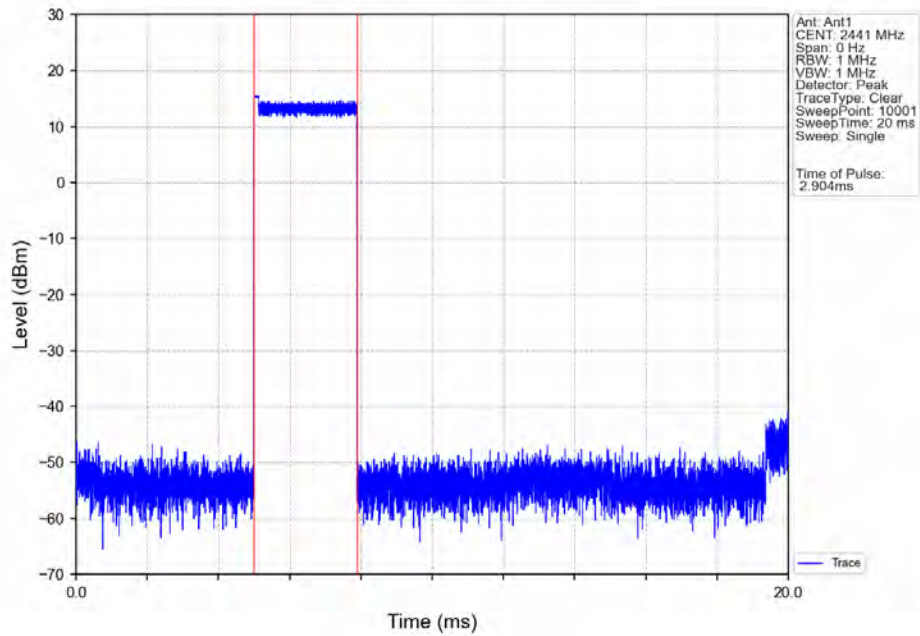
8DPSK_3DH3_HOPP_Ant1_NTNV



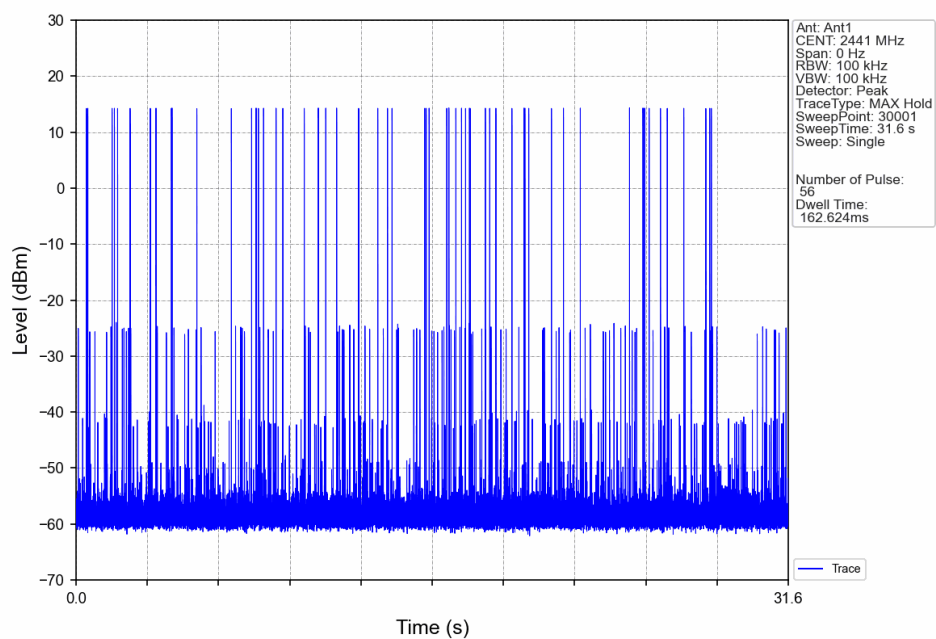
8DPSK_3DH3_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Test Result

6.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	15.82
		2441	DH5	1	15.60
		2480	DH5	1	15.20
Pi/4DQPSK	SISO	2402	2DH5	1	14.06
		2441	2DH5	1	13.38
		2480	2DH5	1	12.82
8DPSK	SISO	2402	3DH5	1	13.72
		2441	3DH5	1	13.81
		2480	3DH5	1	13.14

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10 (2020), the channel contains the maximum PSD level was used to establish the reference level.

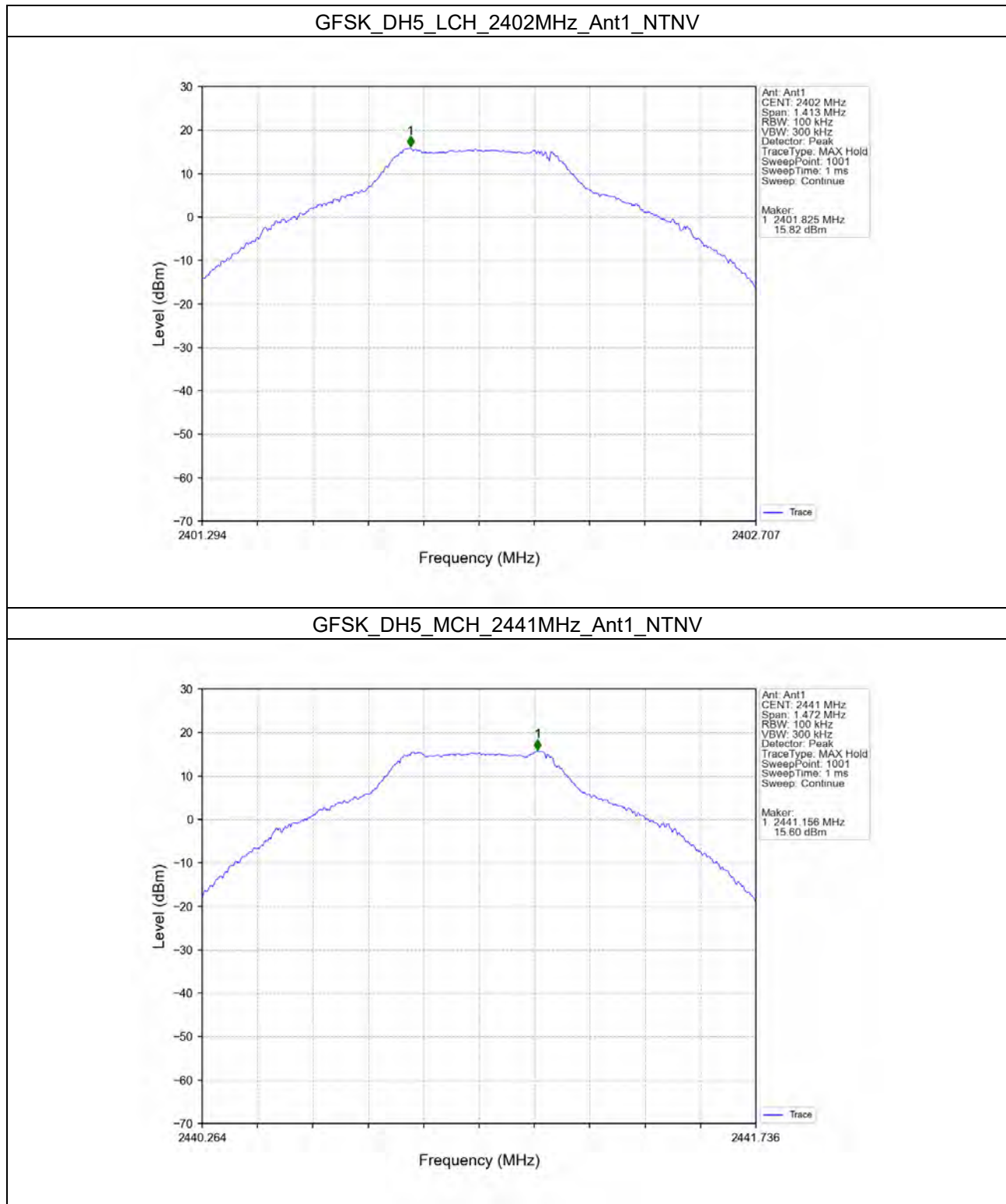
6.1.2 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	17.20	-2.80	Pass
		2441	DH5	1	17.20	-2.80	Pass
		2480	DH5	1	17.20	-2.80	Pass
		HOPP	DH5	1	17.20	-2.80	Pass
					17.20	-2.80	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	15.66	-4.34	Pass
		2441	2DH5	1	15.66	-4.34	Pass
		2480	2DH5	1	15.66	-4.34	Pass
		HOPP	2DH5	1	15.66	-4.34	Pass
					15.66	-4.34	Pass
8DPSK	SISO	2402	3DH5	1	15.32	-4.68	Pass
		2441	3DH5	1	15.32	-4.68	Pass
		2480	3DH5	1	15.32	-4.68	Pass
		HOPP	3DH5	1	15.32	-4.68	Pass
					15.32	-4.68	Pass

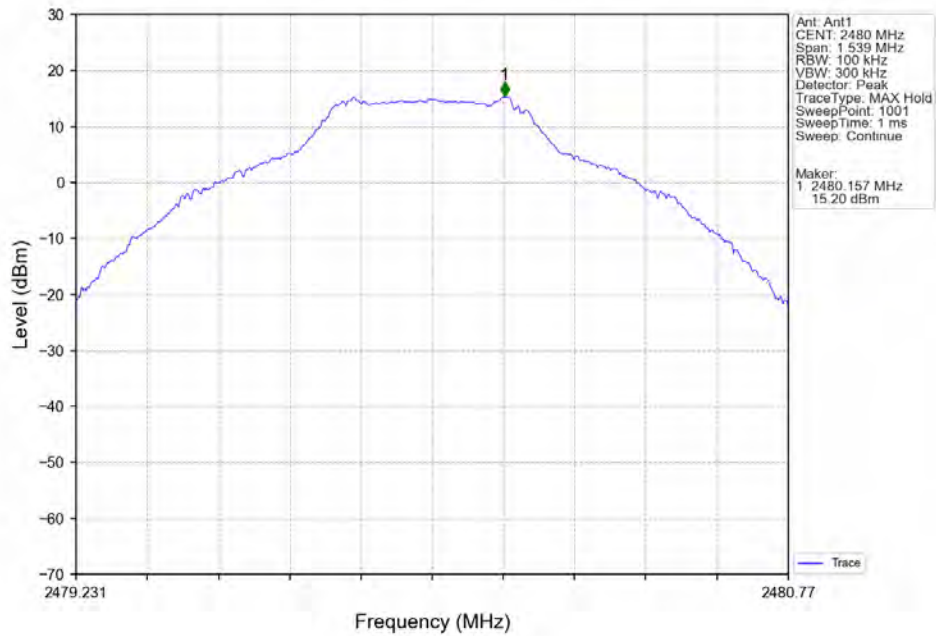
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10 (2020), the channel contains the maximum PSD level was used to establish the reference level.

6.2 Test Graph

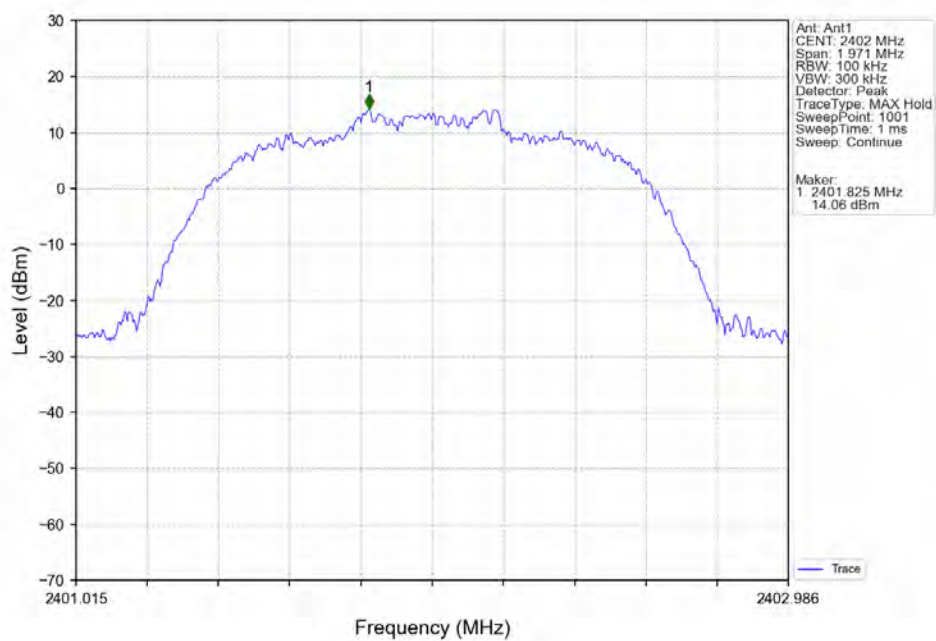
6.2.1 Ref



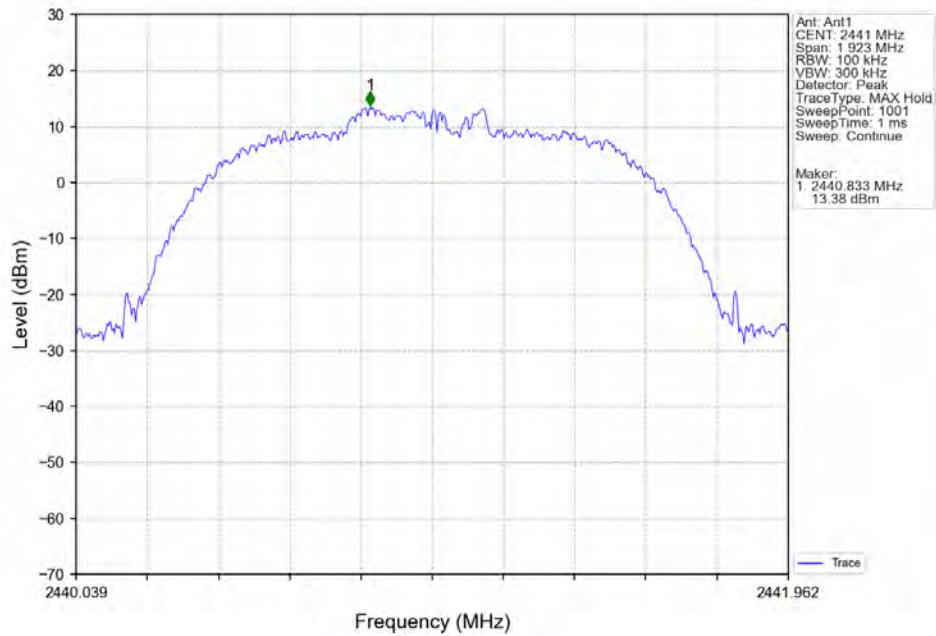
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



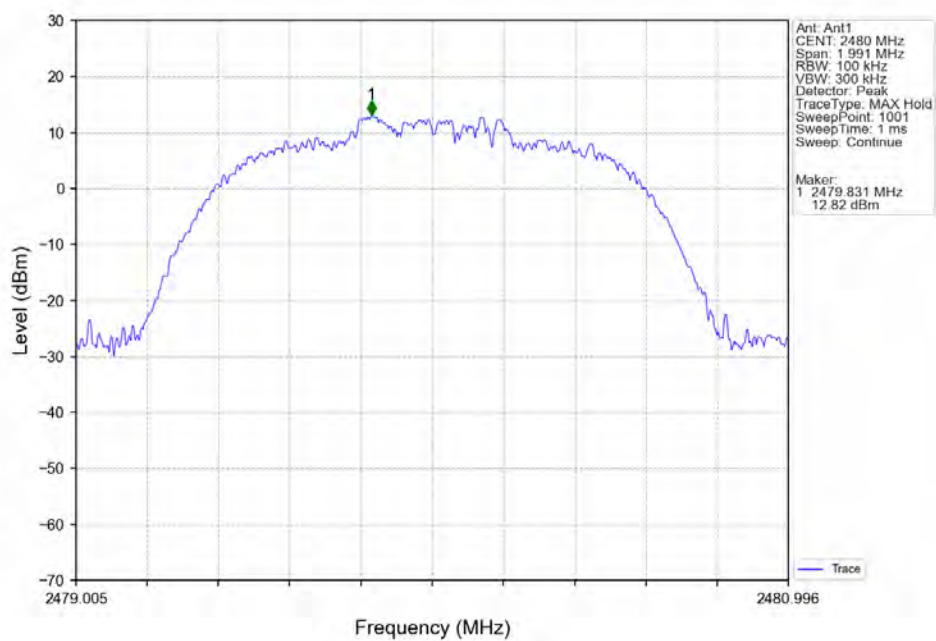
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



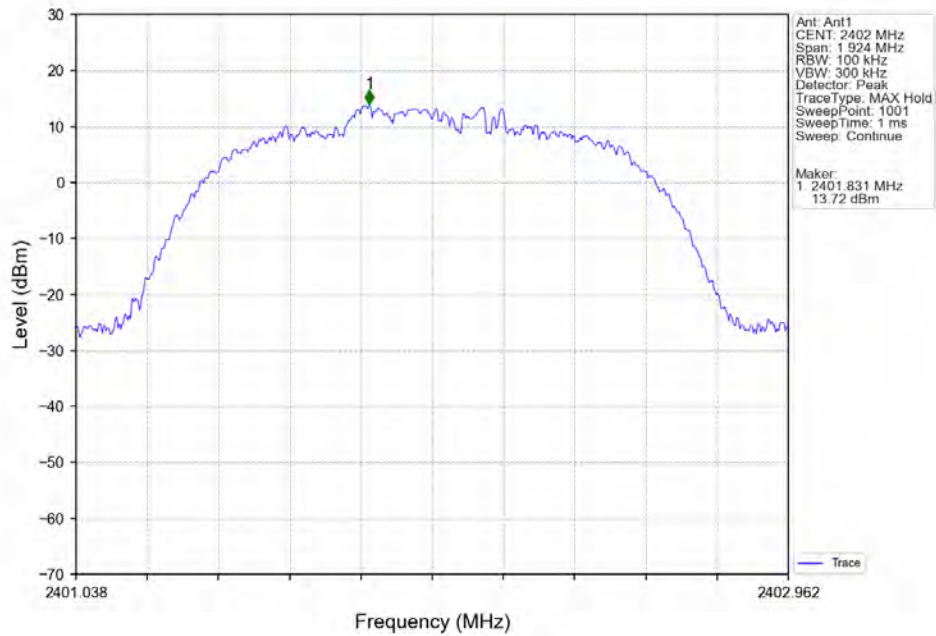
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



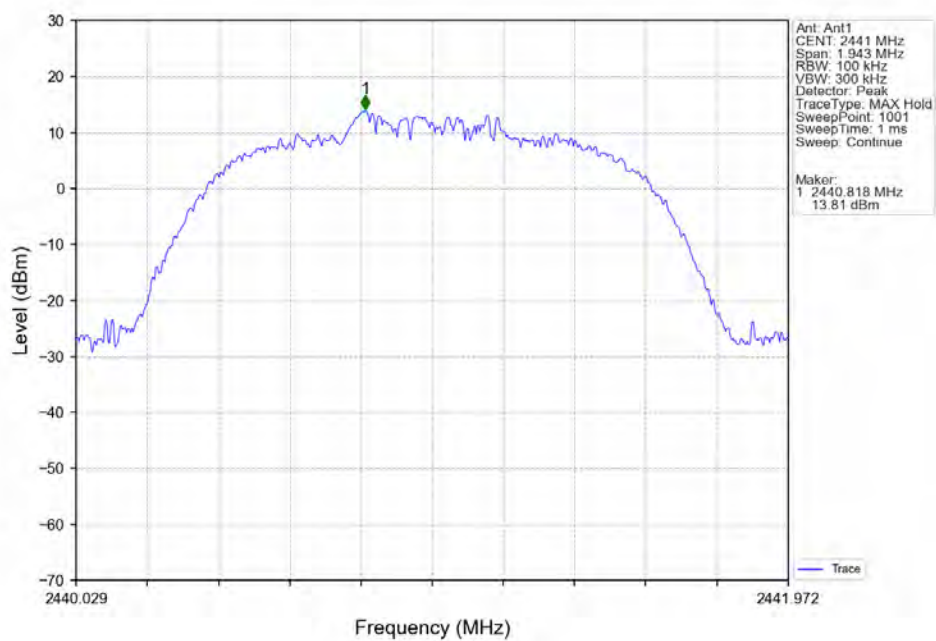
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



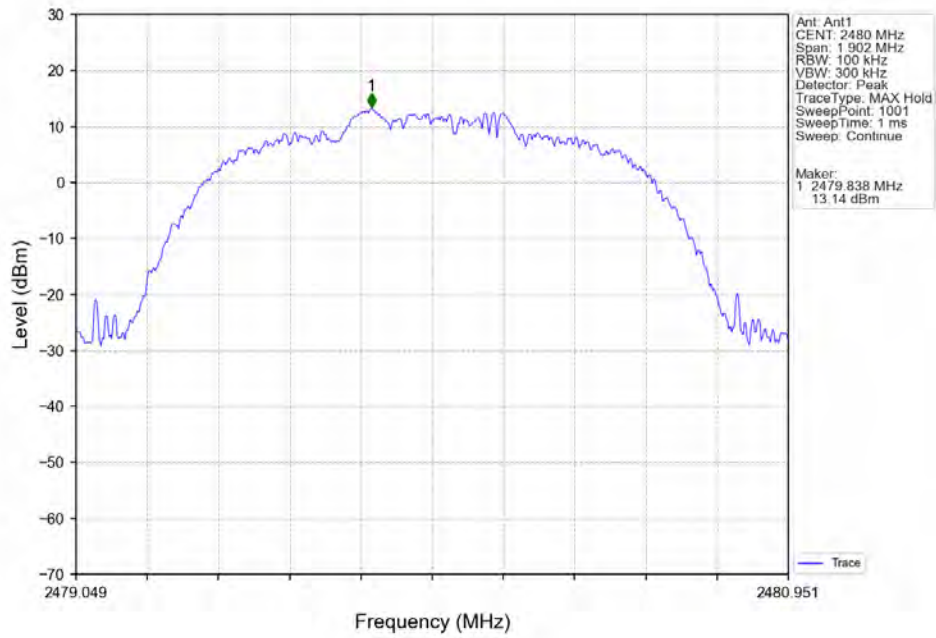
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

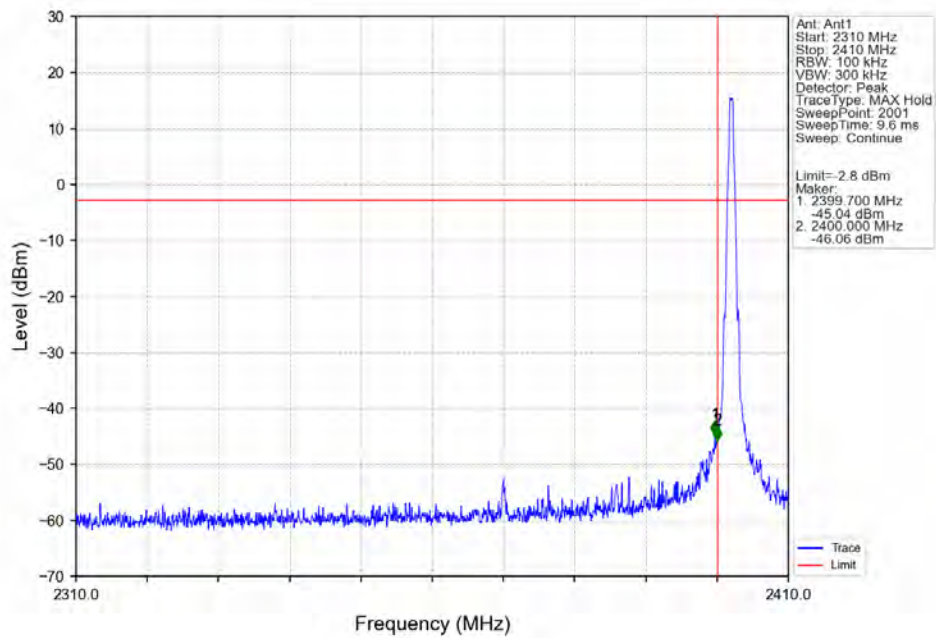


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

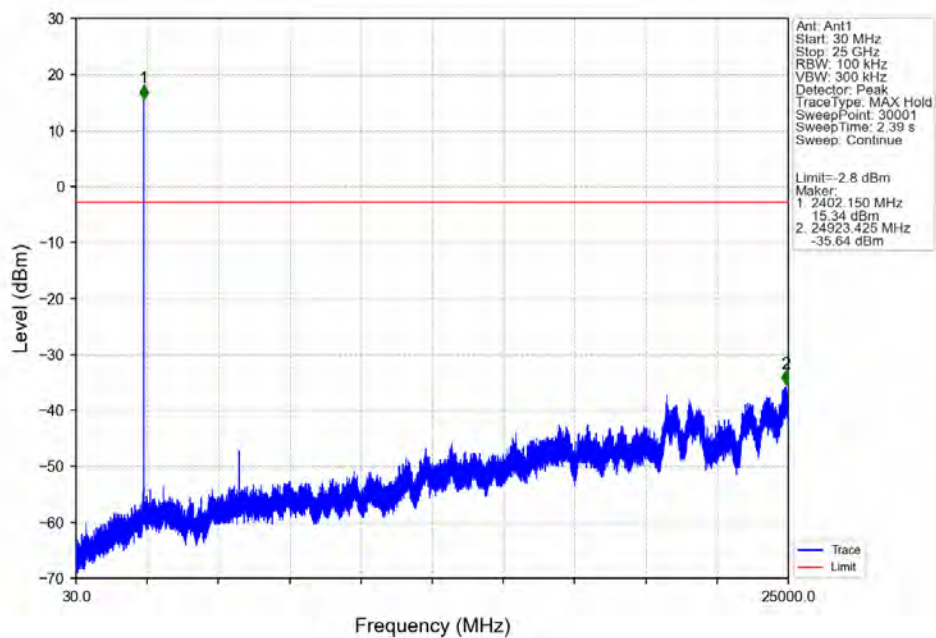


6.2.2 CSE

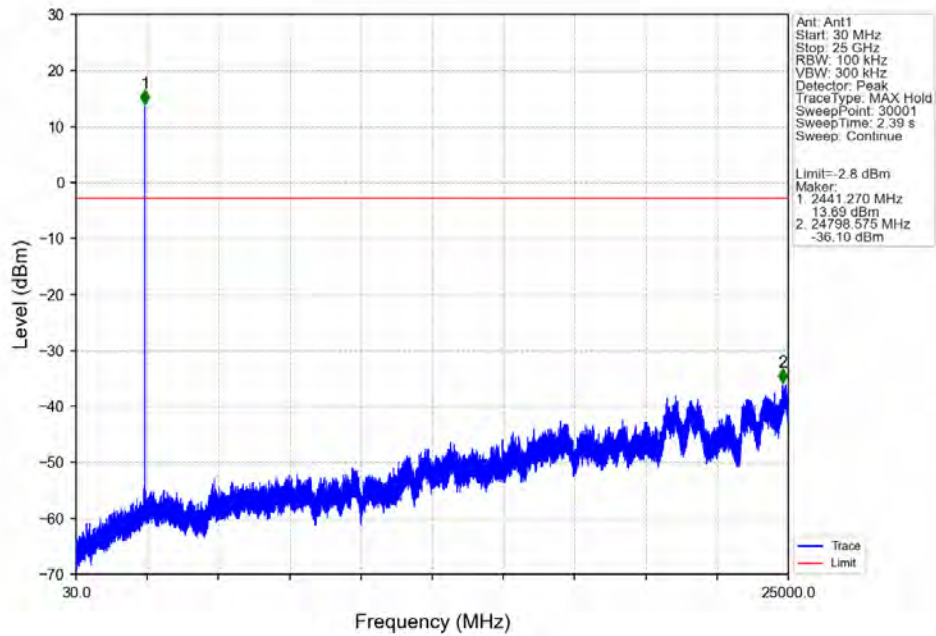
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



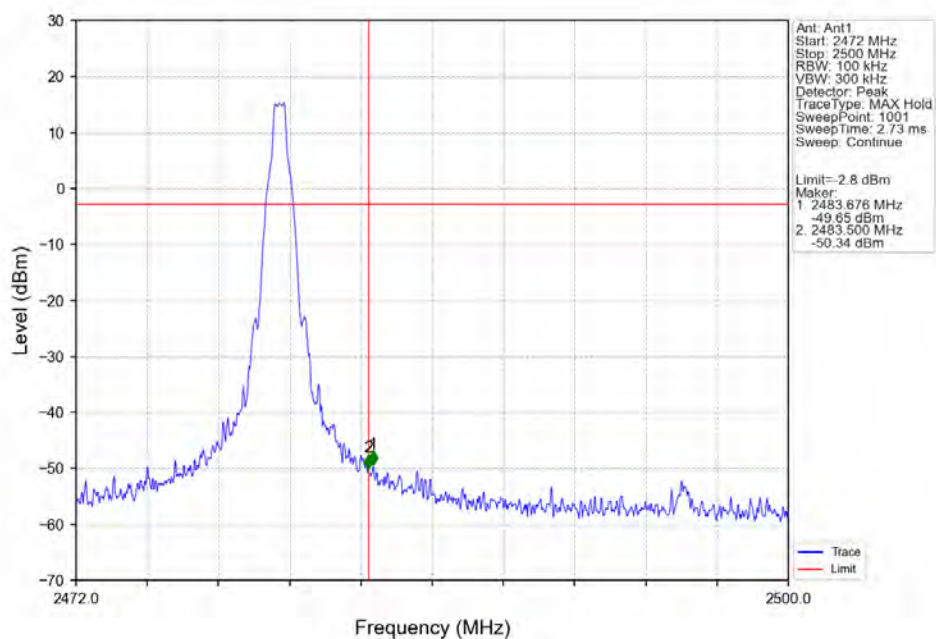
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



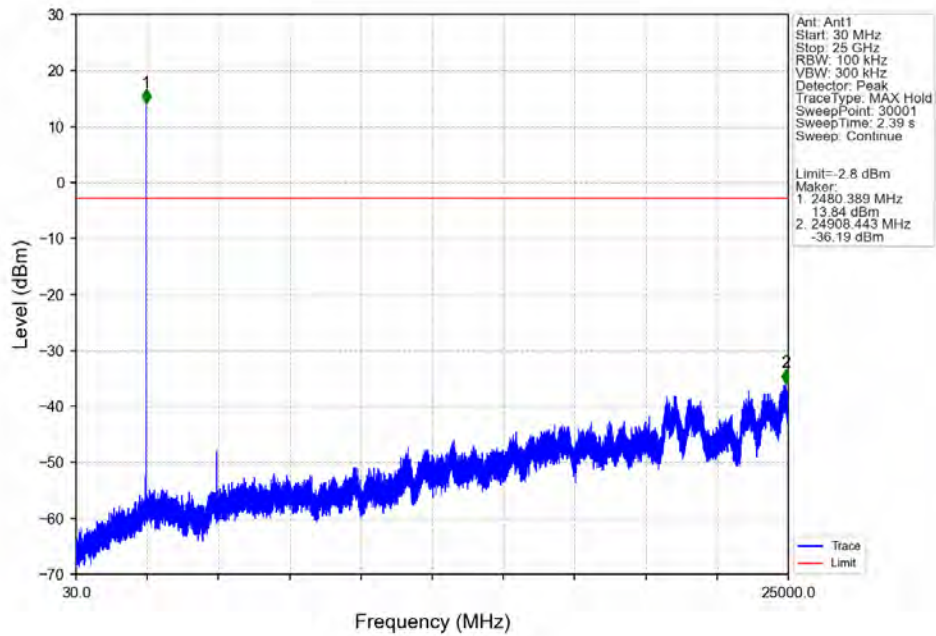
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



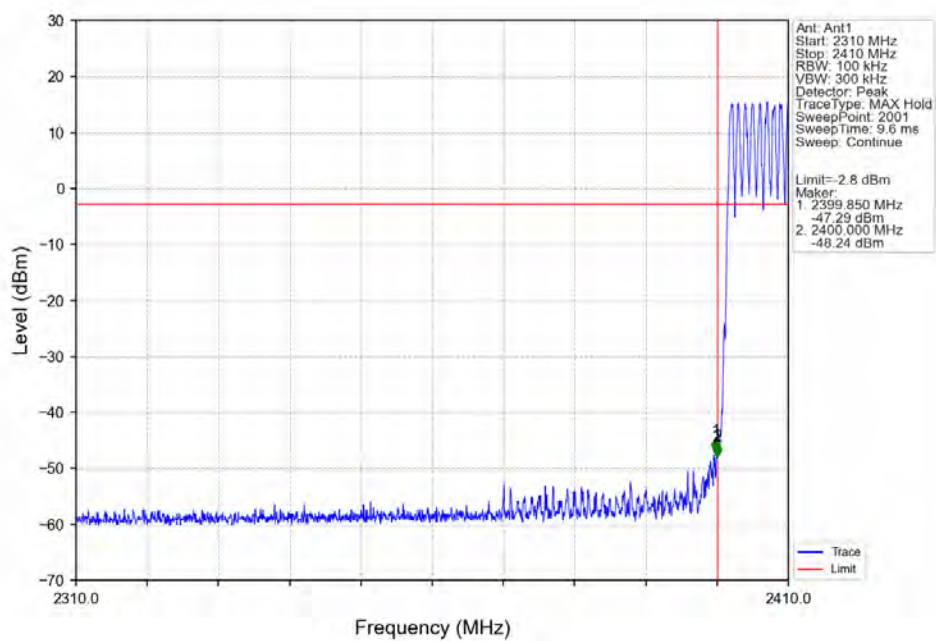
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



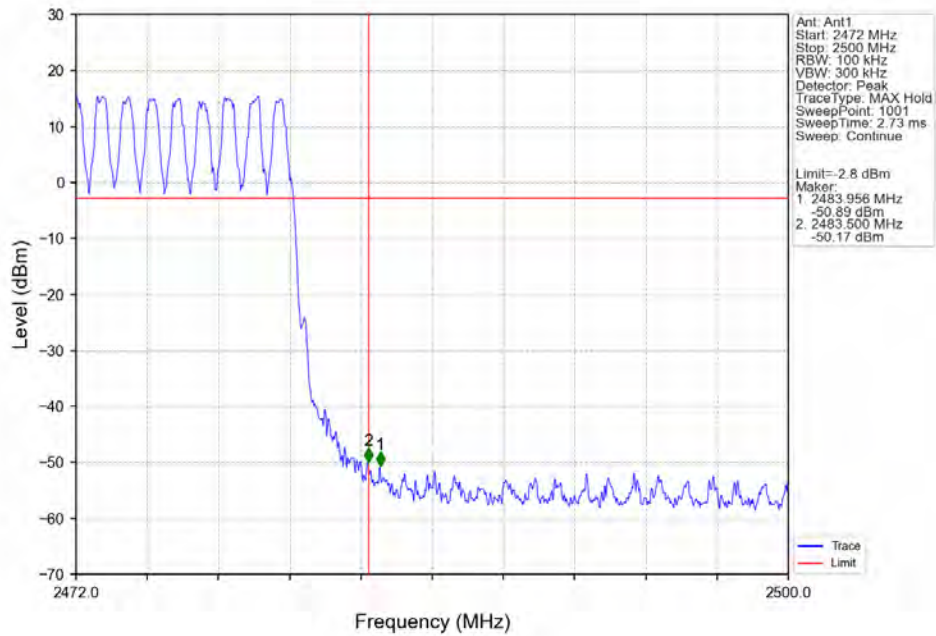
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



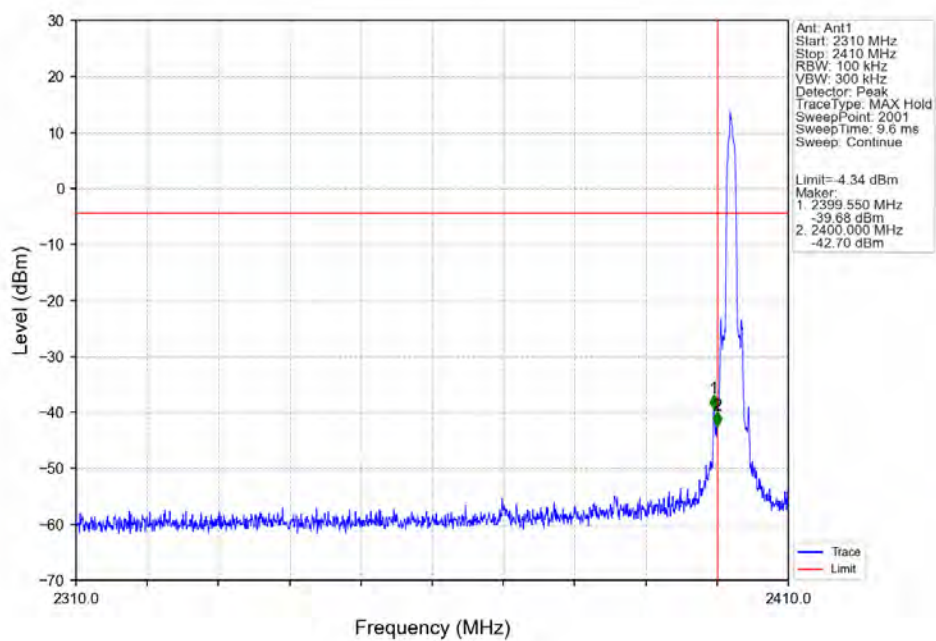
GFSK_DH5_HOPP_Ant1_NTNV



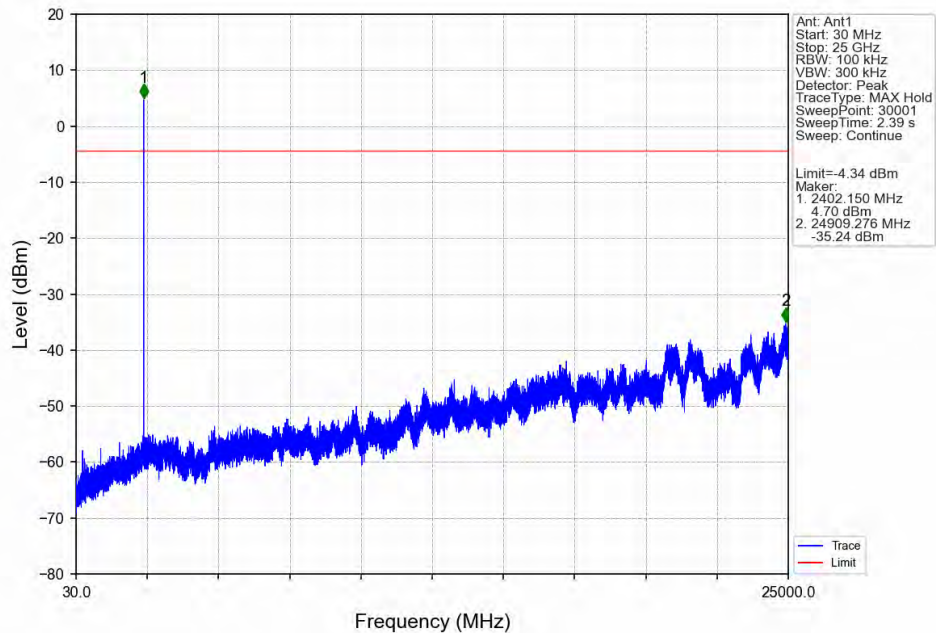
GFSK_DH5_HOPP_Ant1_NTNV



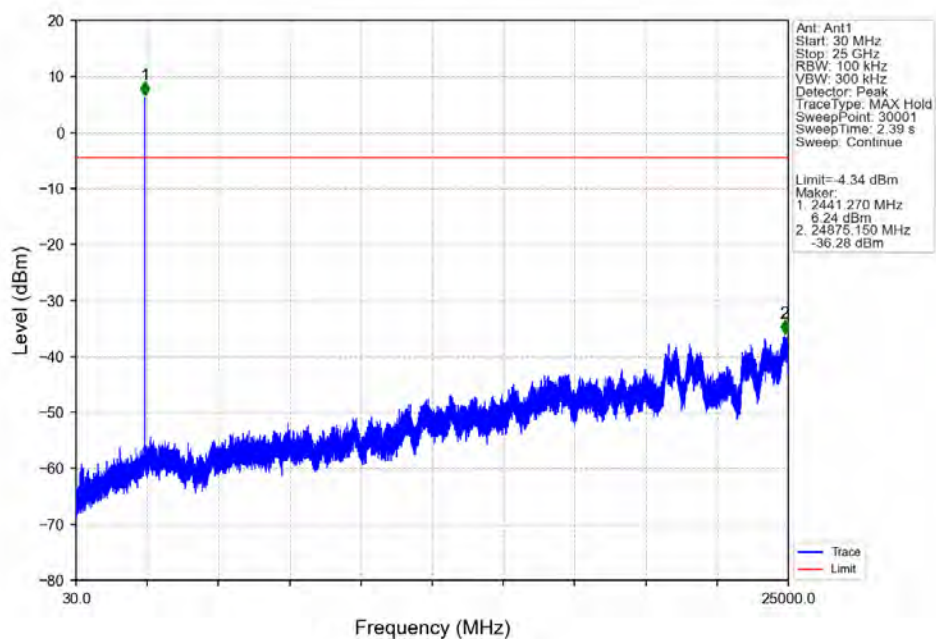
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

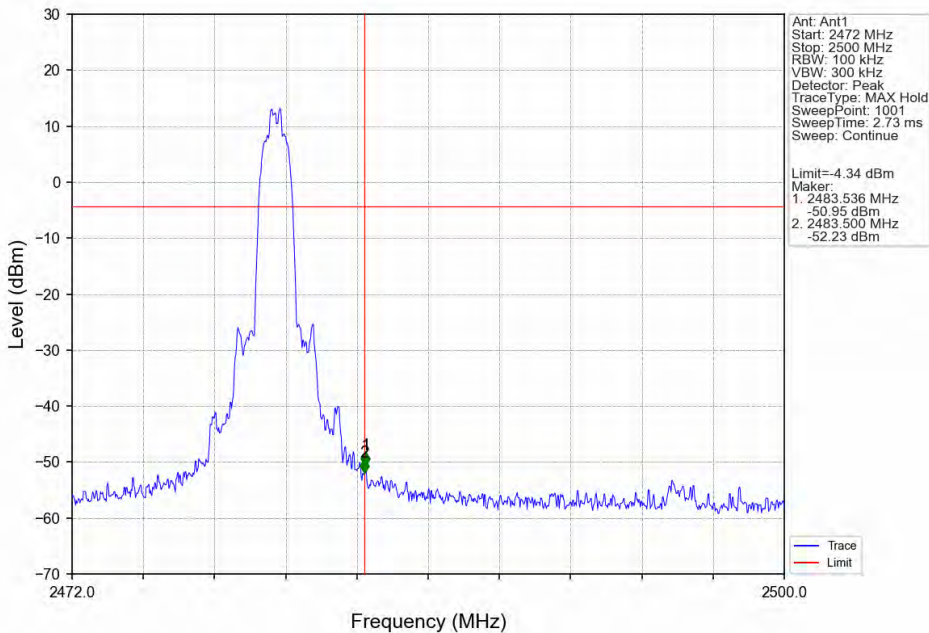


Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

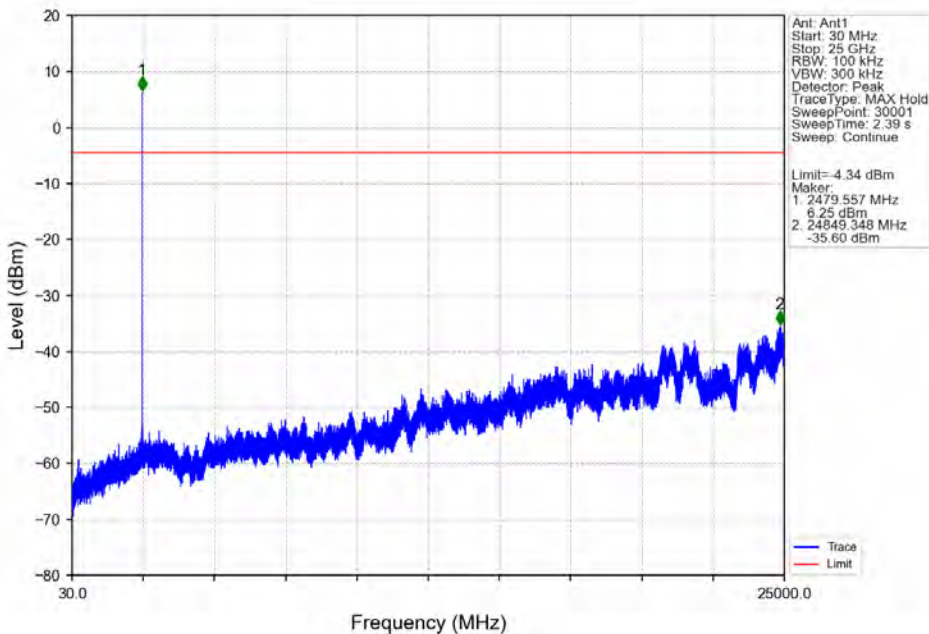




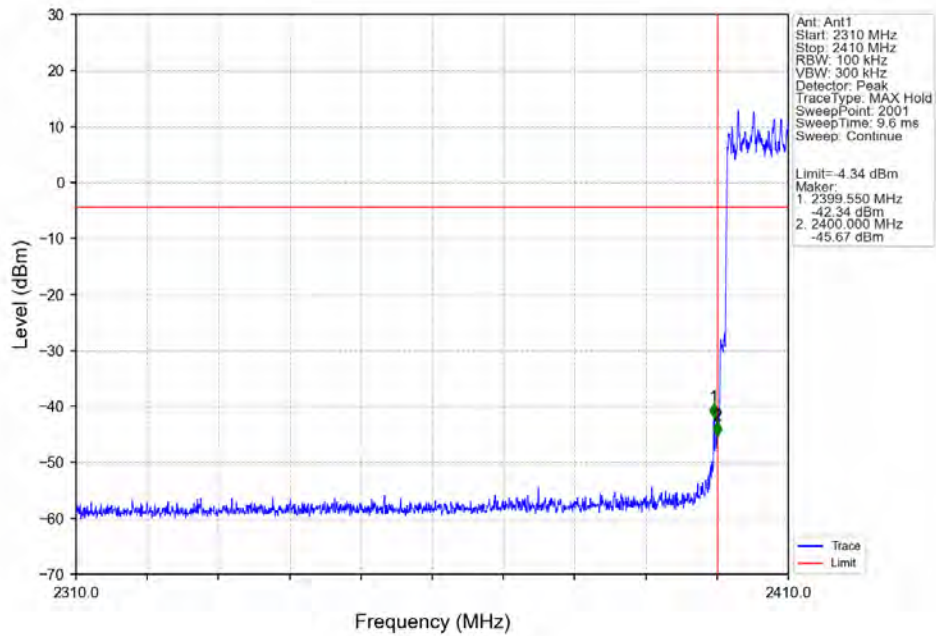
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



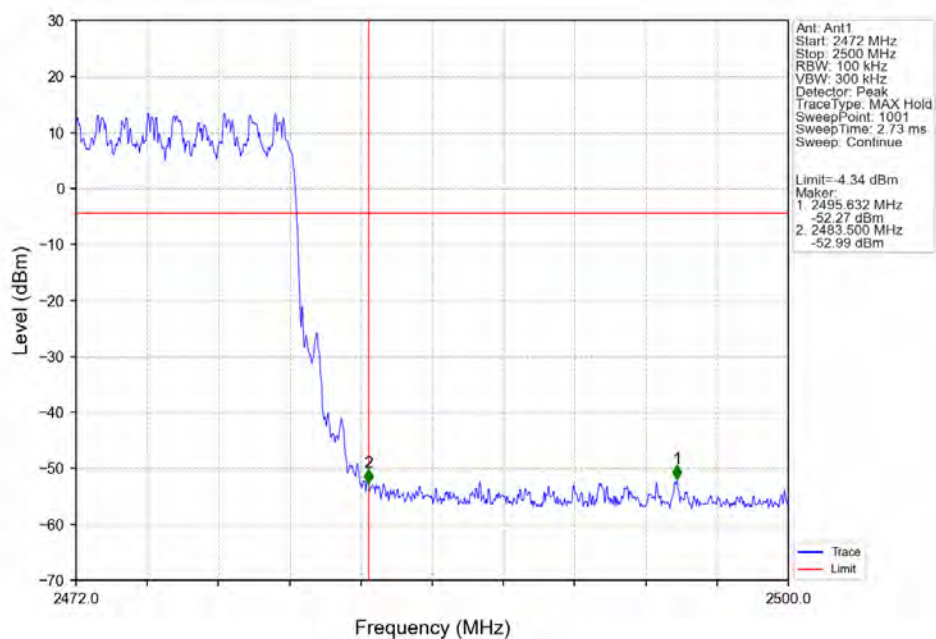
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



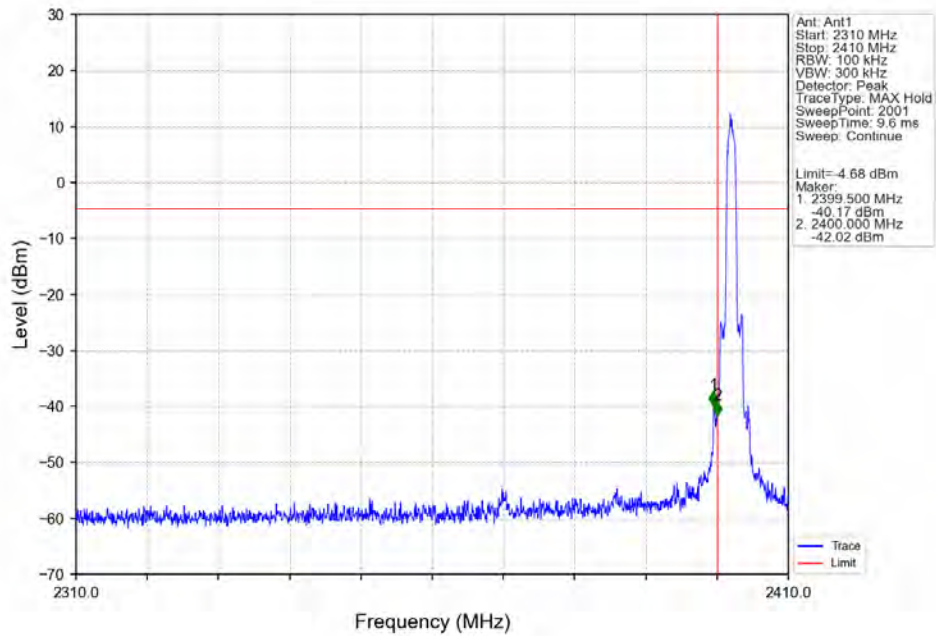
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



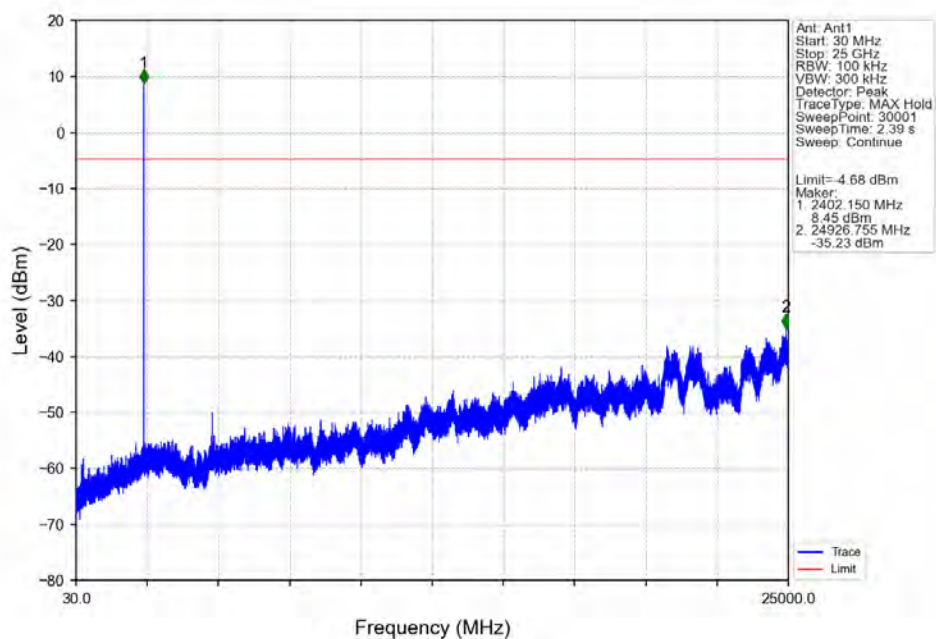
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



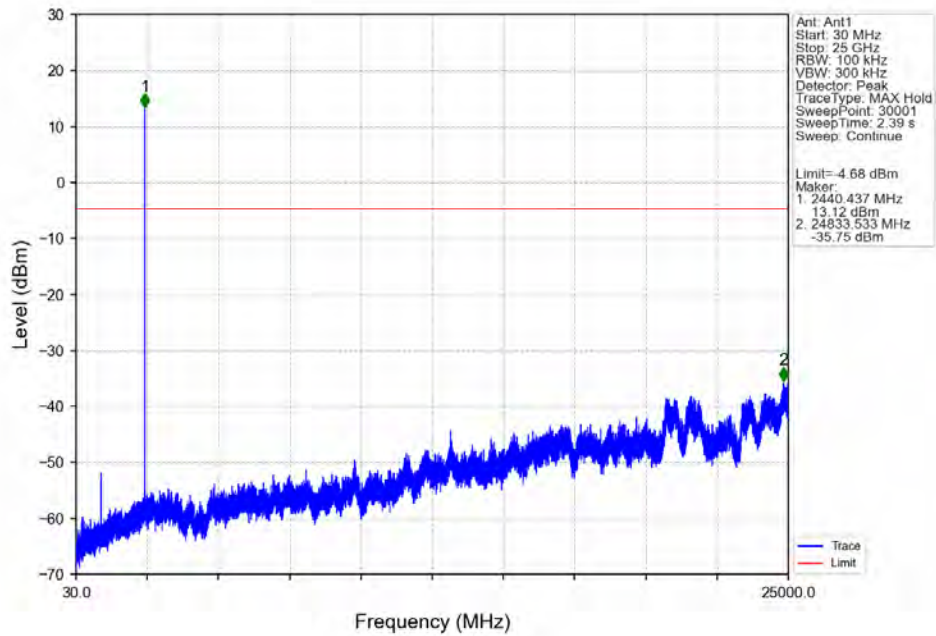
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



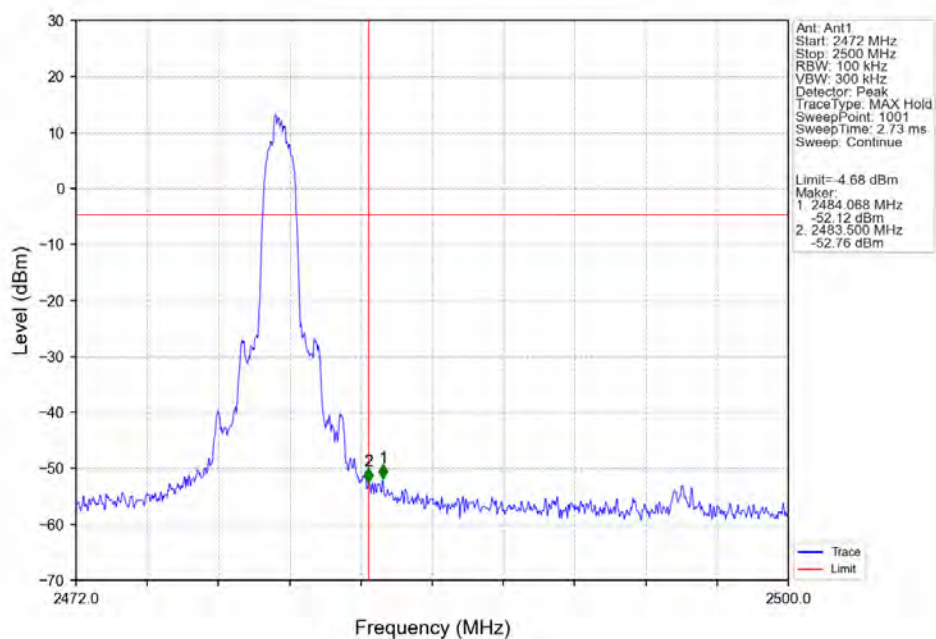
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



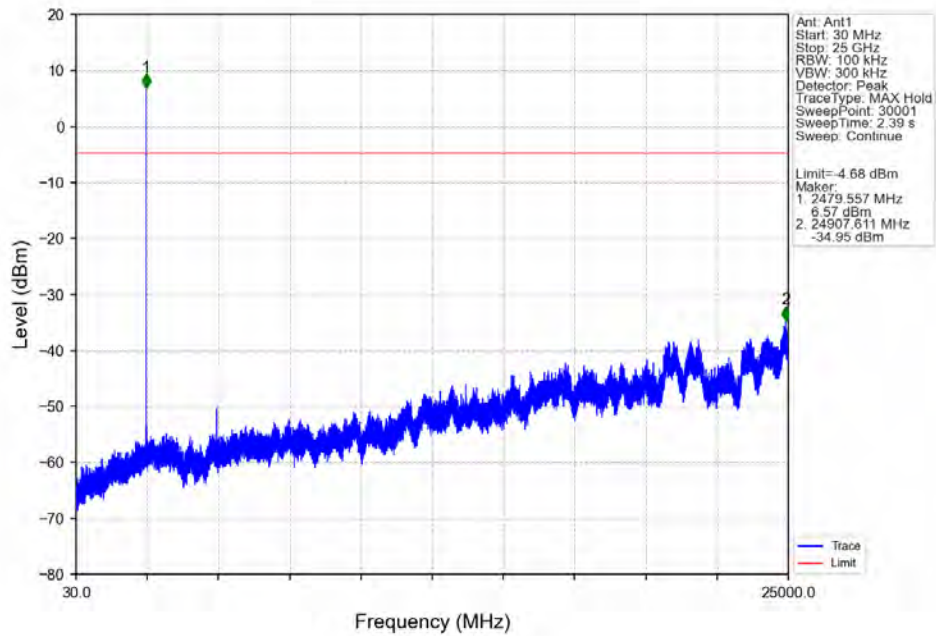
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



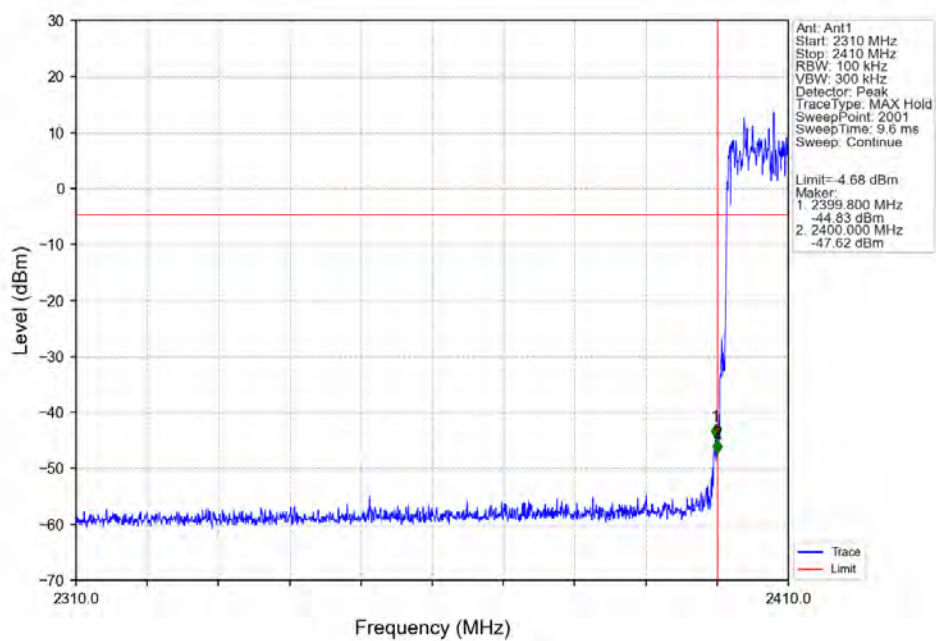
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



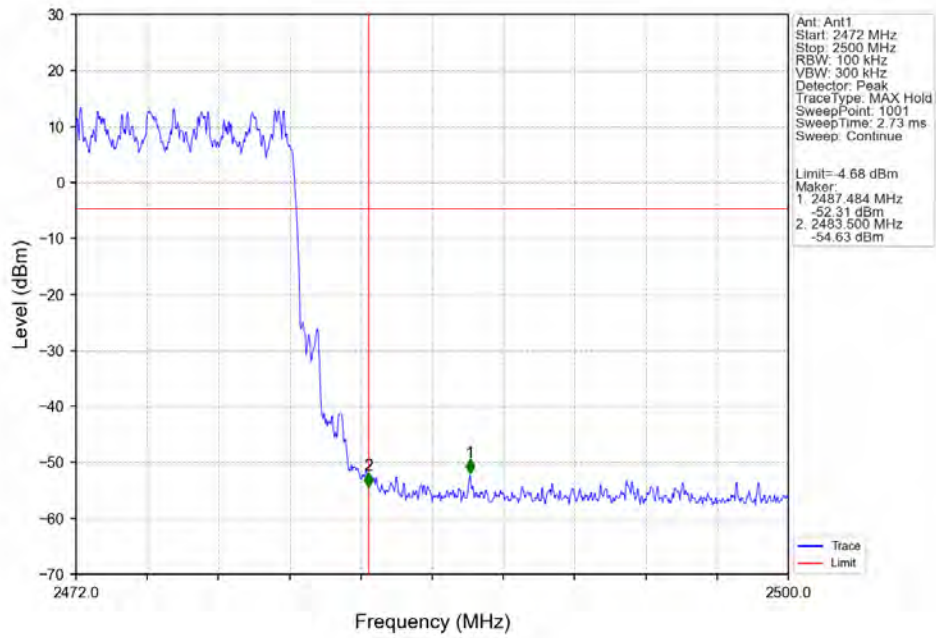
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV

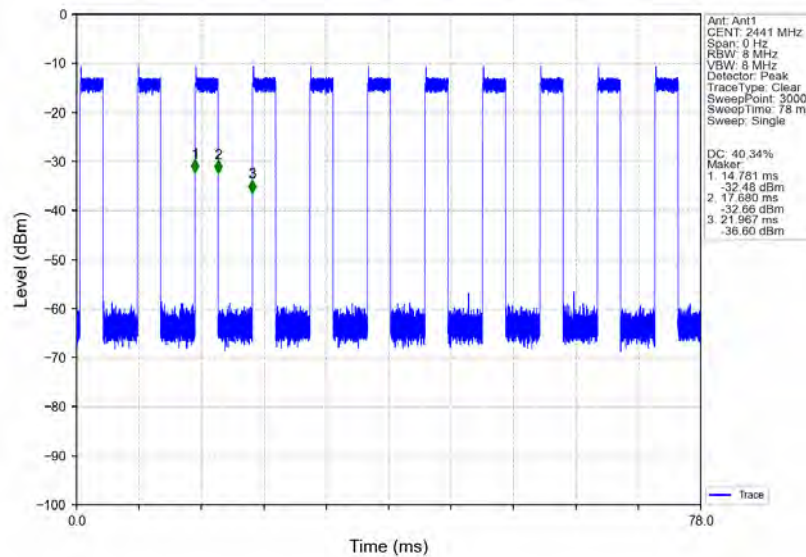


8DPSK_3DH5_HOPP_Ant1_NTNV

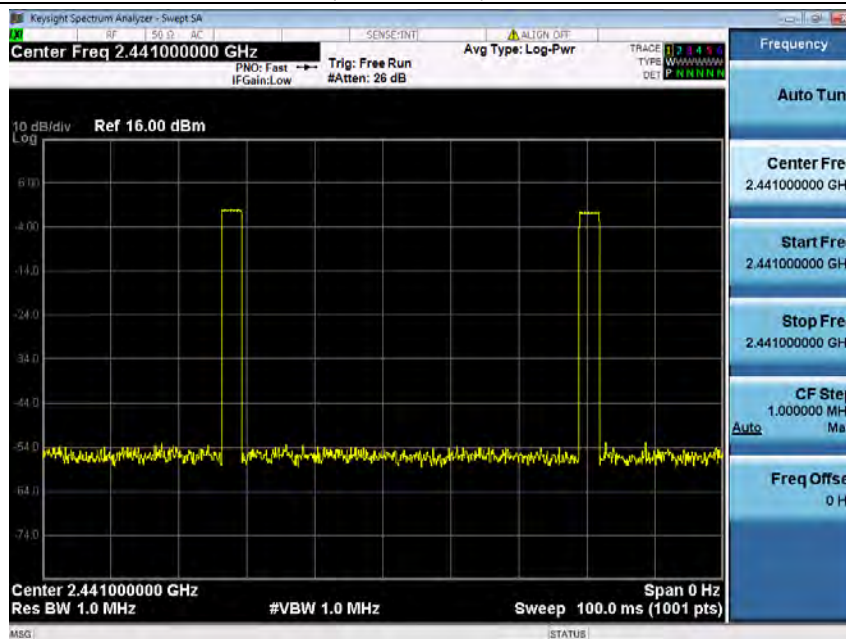


9. Duty Cycle Plots

3DH5 on time(One Pules)Plot on channel 39



3DH5 on time(Count Pulses)Plot on channel 39



10. The process and drawings of RSE-AVG

Ant1							
Test Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.002	1.026	≥ 0.684	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.006	1.327	≥ 0.885	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.295	≥ 0.863	Pass

Note:

Channel separation correction

DH5: Channel Separation ≥ 1 MHz, Channel separation correction=1

2DH5: Channel Separation ≥ 1 MHz, Channel separation correction=1

3DH5: Channel Separation ≥ 1 MHz, Channel separation correction=1

Overlapping channel correction

DH5: Overlapping channel correction = 1

2DH5: Overlapping channel correction = 1

3DH5: Overlapping channel correction = 1

Test mode	Dwell time per 100 ms	Channel separation correction	Overlapping channel correction	Maximum dwell time
DH5	$2 \times 2.899 = 5.798$	1	1	11.596
2DH5	$2 \times 2.899 = 5.798$	1	1	11.596
3DH5	$2 \times 2.899 = 5.798$	1	1	11.596

Note: Maximum dwell time per 1MHz= Dwell time per 100 ms per Channel*(Channel separation correction+ Overlapping channel correction)

Test Mode	Factor
DH5	-18.71
2DH5	-18.71
3DH5	-18.71

Factor= $20 \times \log(\text{Maximum dwell time in 100 ms}/100)$

Right Earbud

1. Bandwidth

1.1 Test Result

1.1.1 OBW

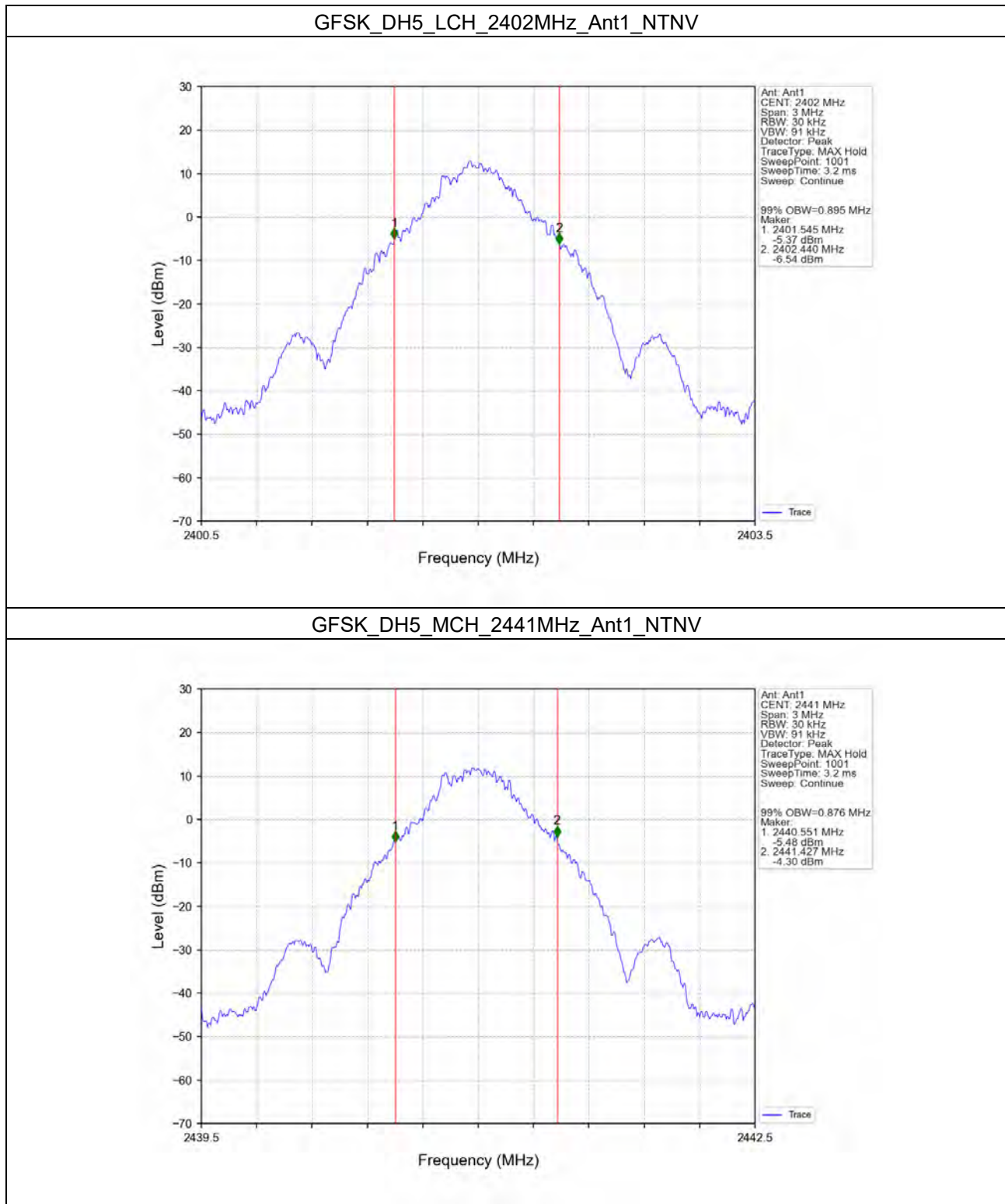
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.895	/	Pass
		2441	DH5	1	0.876	/	Pass
		2480	DH5	1	0.904	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.182	/	Pass
		2441	2DH5	1	1.180	/	Pass
		2480	2DH5	1	1.172	/	Pass
8DPSK	SISO	2402	3DH5	1	1.184	/	Pass
		2441	3DH5	1	1.190	/	Pass
		2480	3DH5	1	1.185	/	Pass

1.1.2 20dB BW

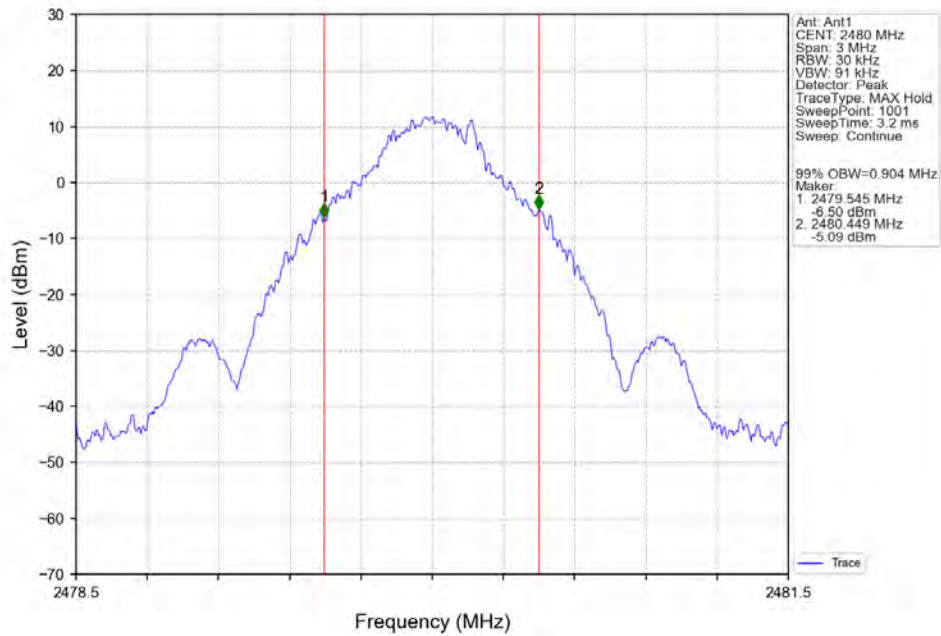
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	1.032	/	Pass
		2441	DH5	1	1.030	/	Pass
		2480	DH5	1	0.986	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.305	/	Pass
		2441	2DH5	1	1.304	/	Pass
		2480	2DH5	1	1.326	/	Pass
8DPSK	SISO	2402	3DH5	1	1.296	/	Pass
		2441	3DH5	1	1.274	/	Pass
		2480	3DH5	1	1.290	/	Pass

1.2 Test Graph

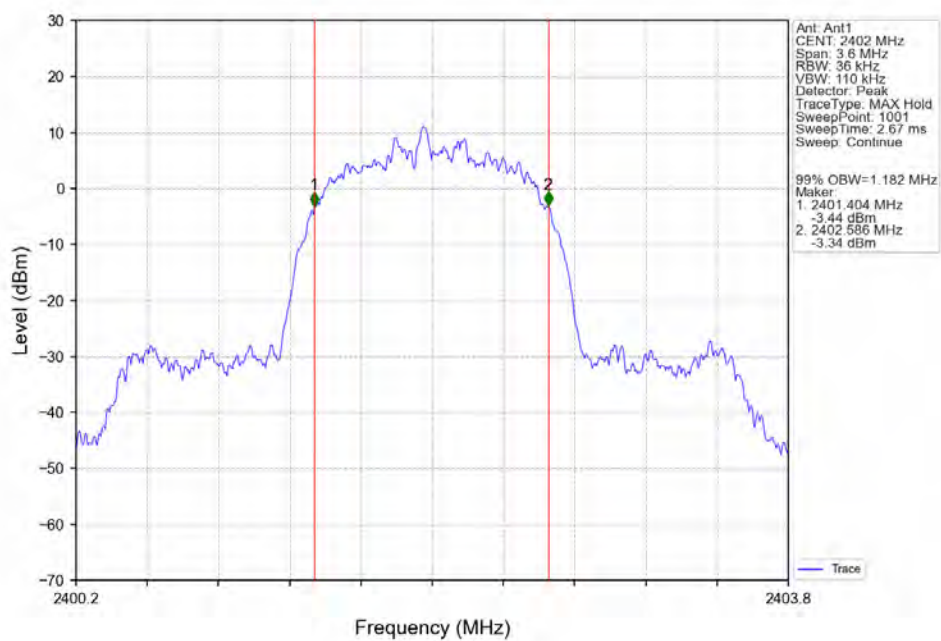
1.2.1 OBW



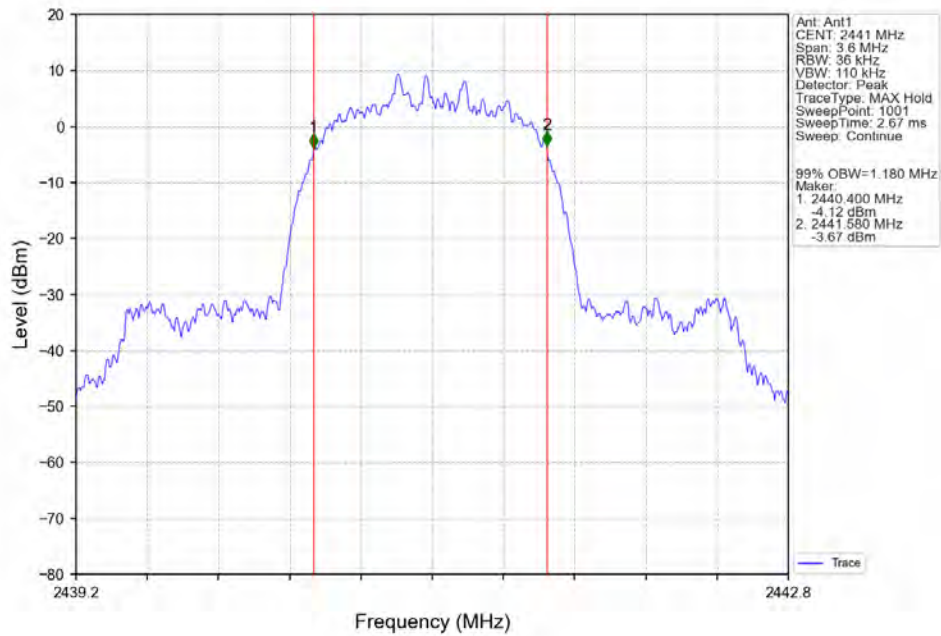
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



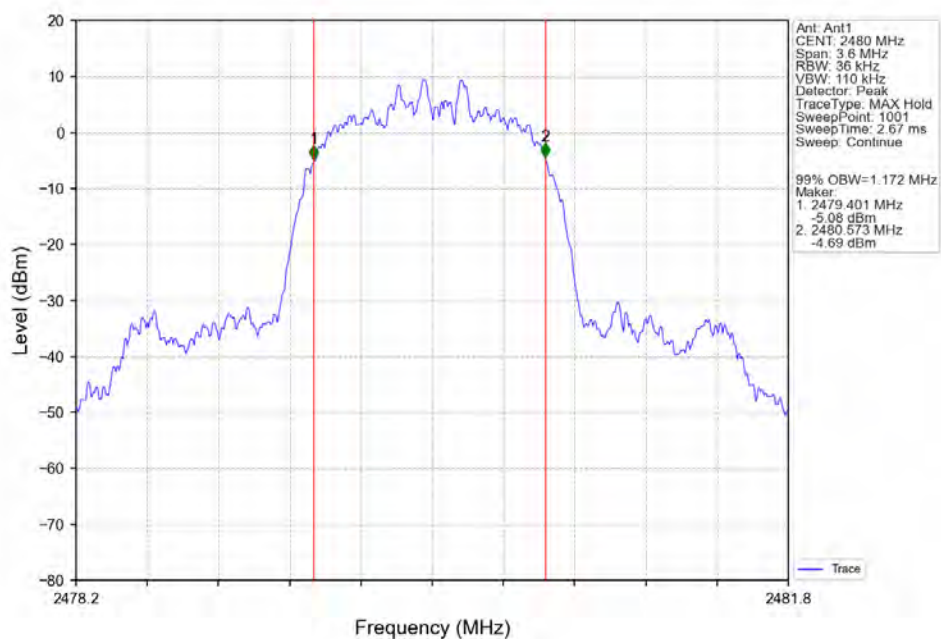
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



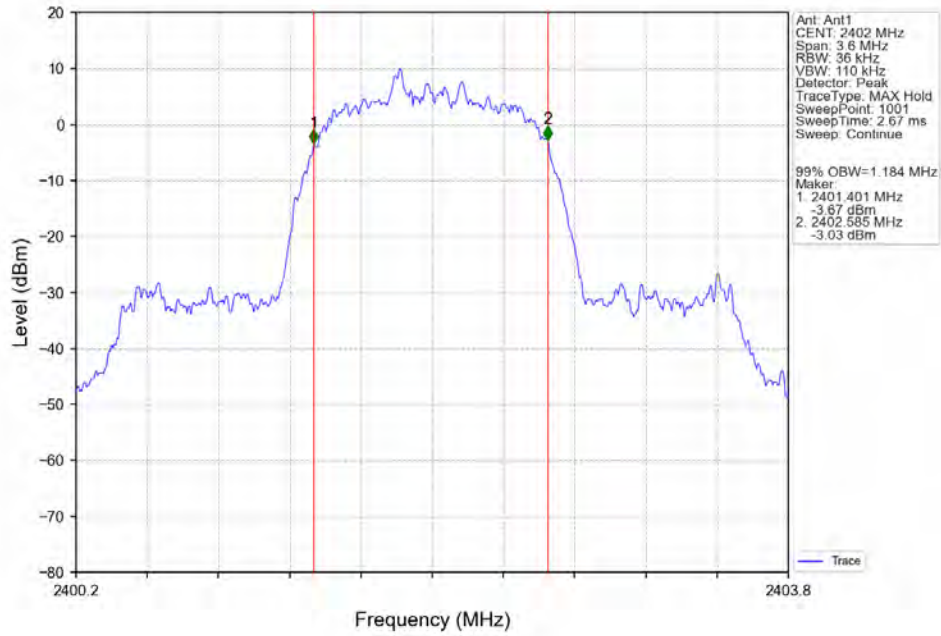
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



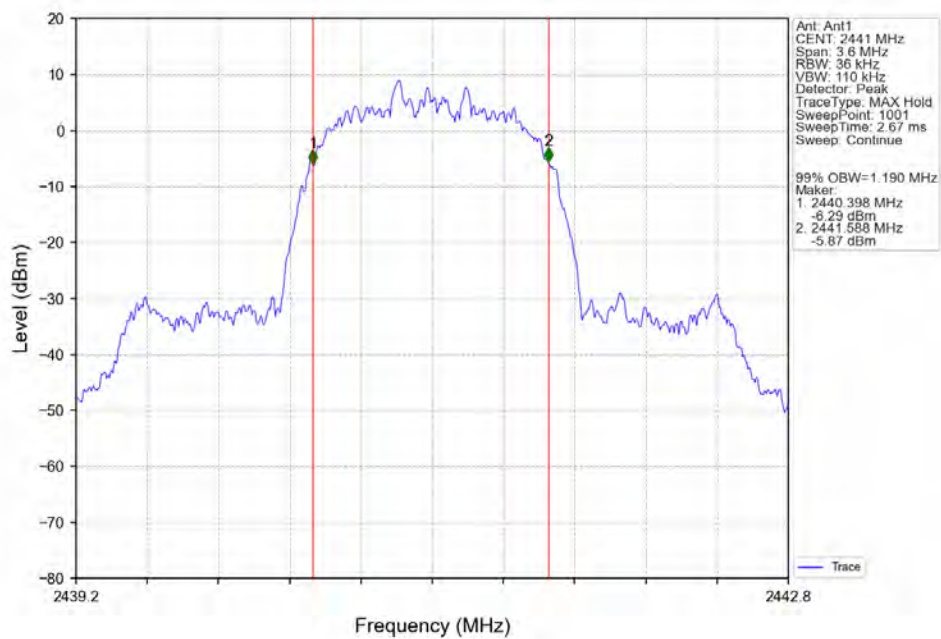
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



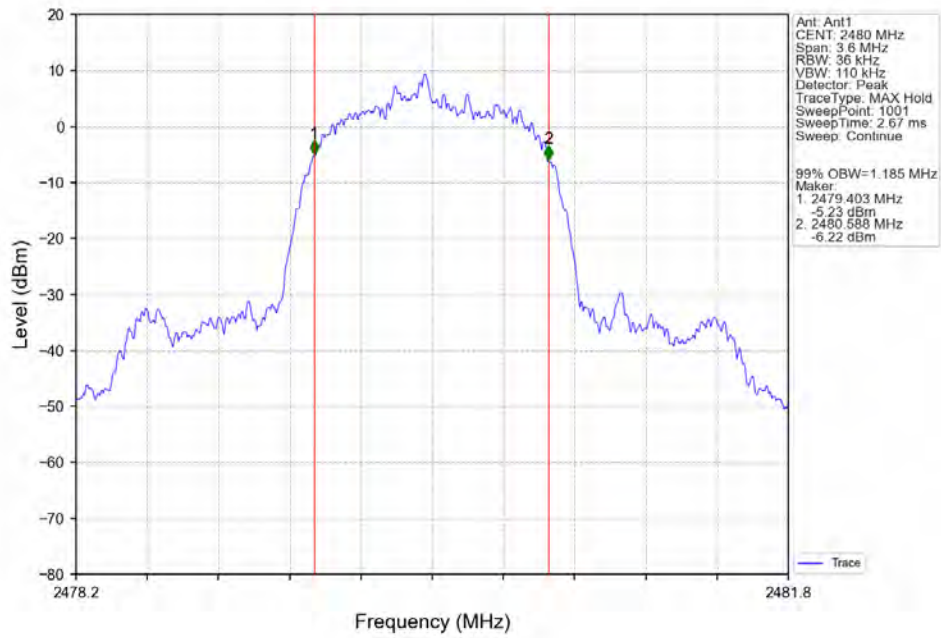
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

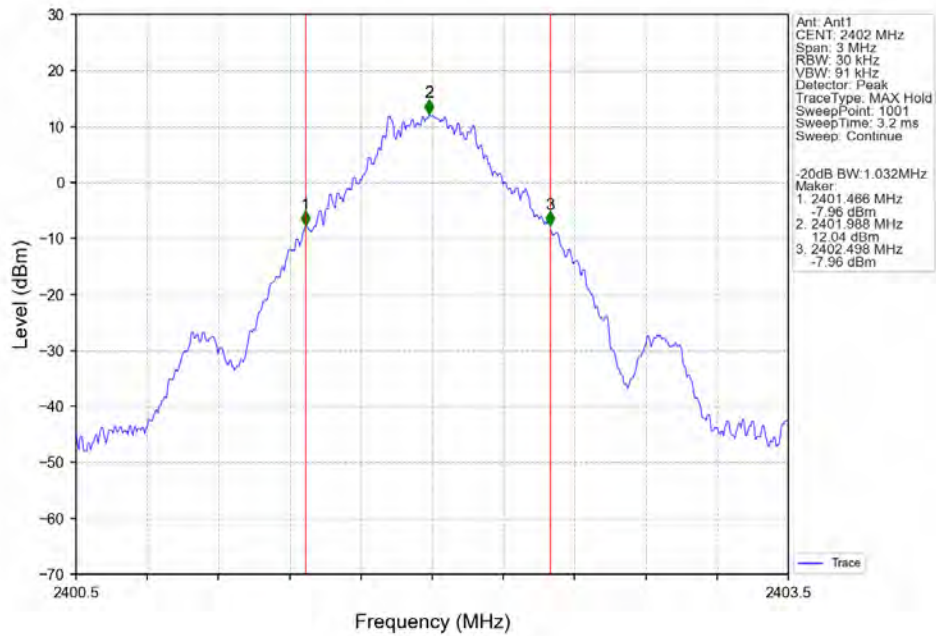


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

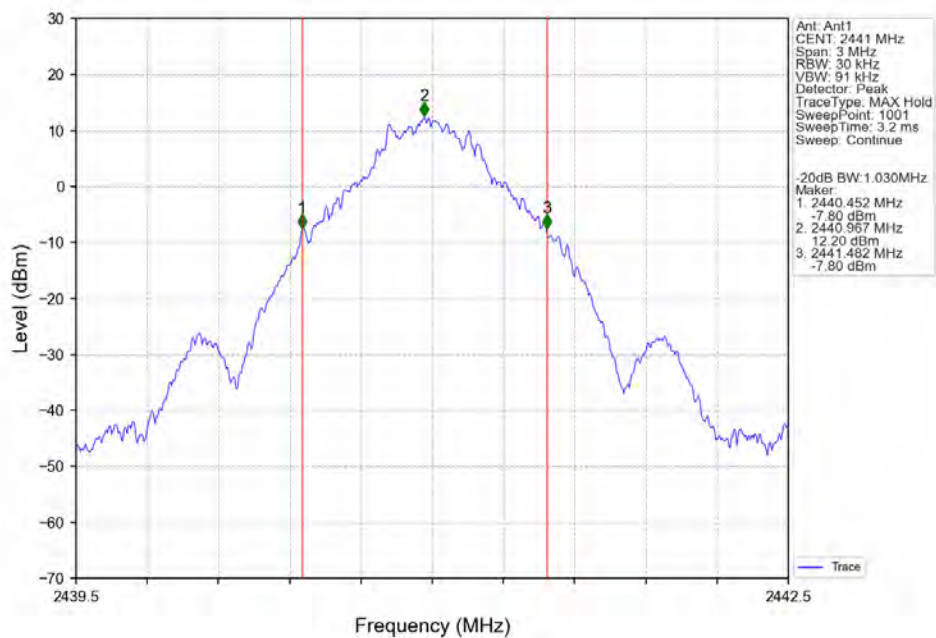


1.2.2 20dB BW

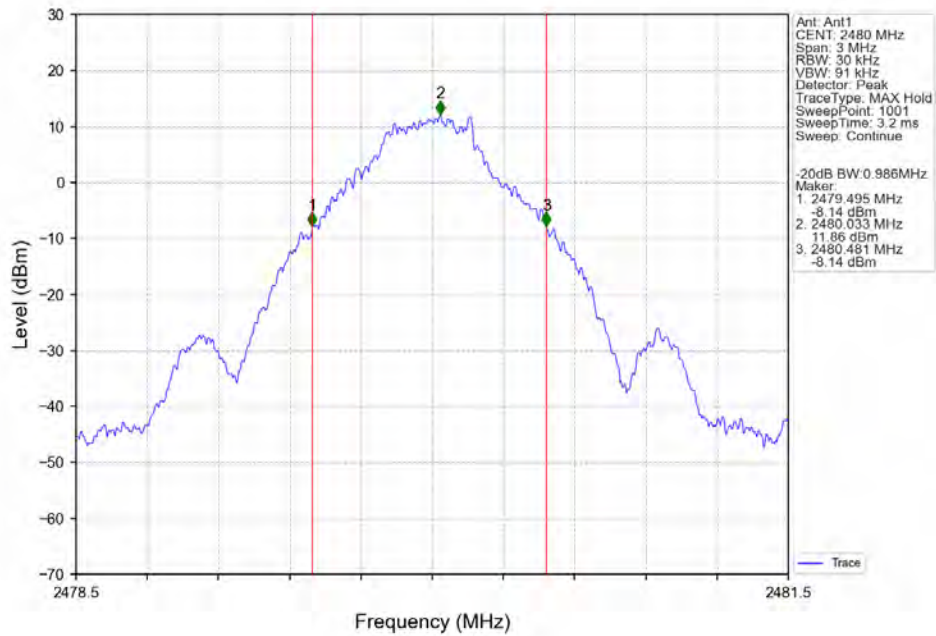
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



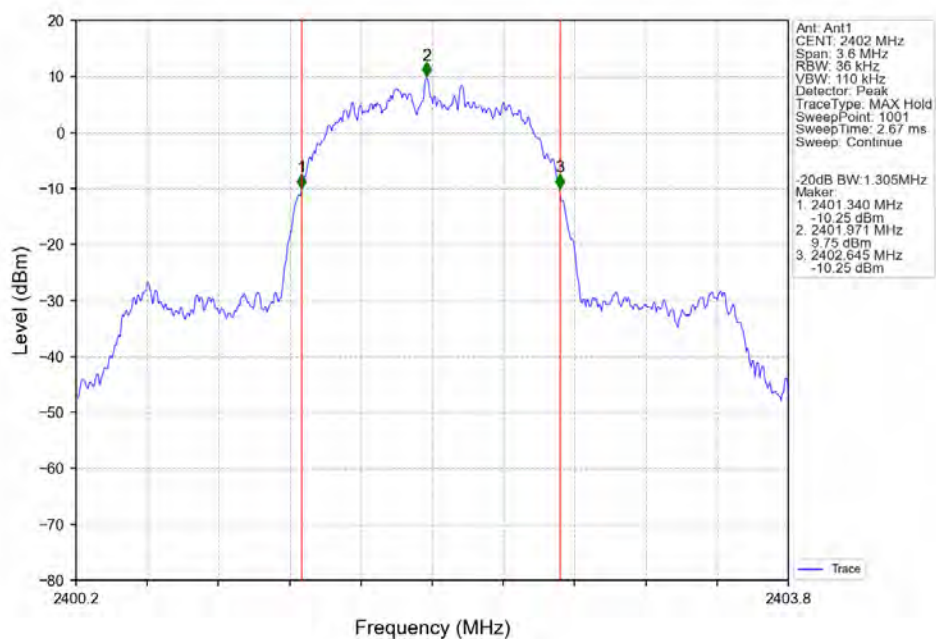
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



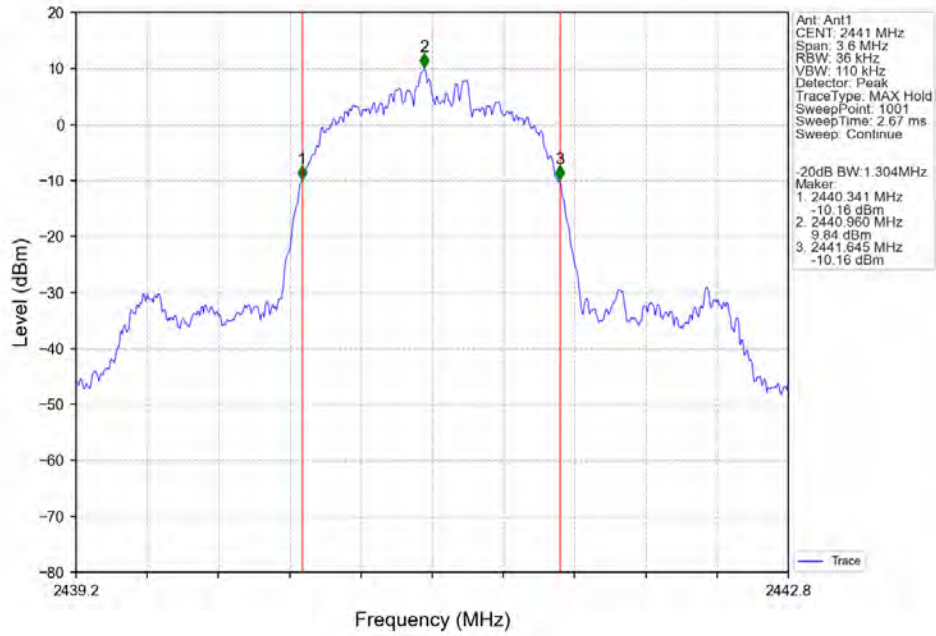
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



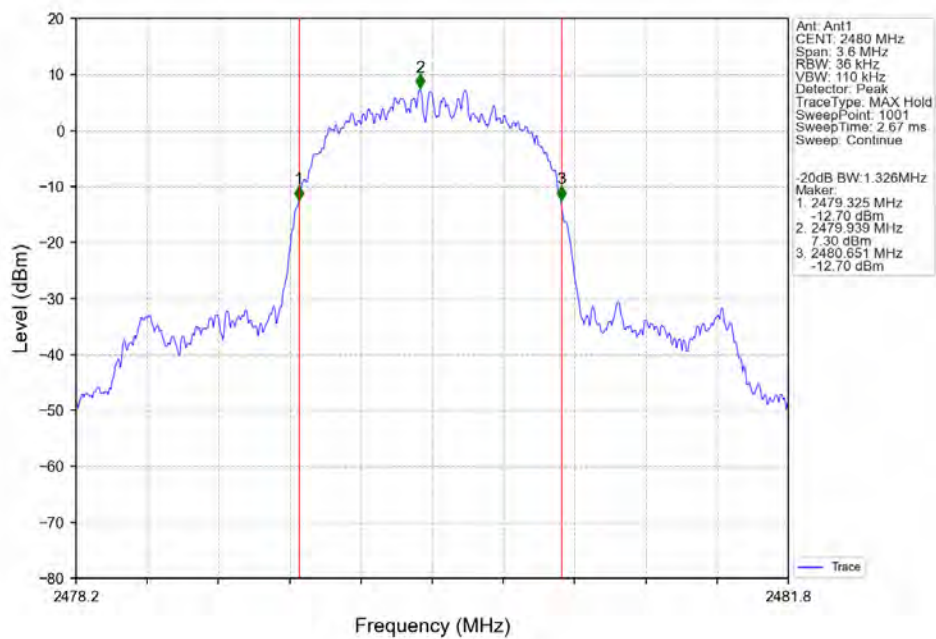
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



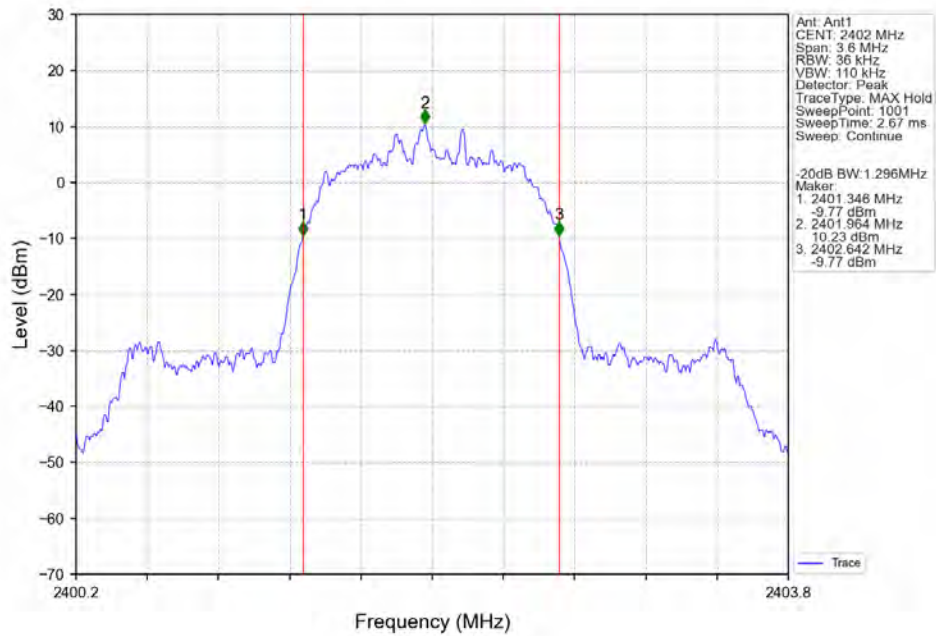
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



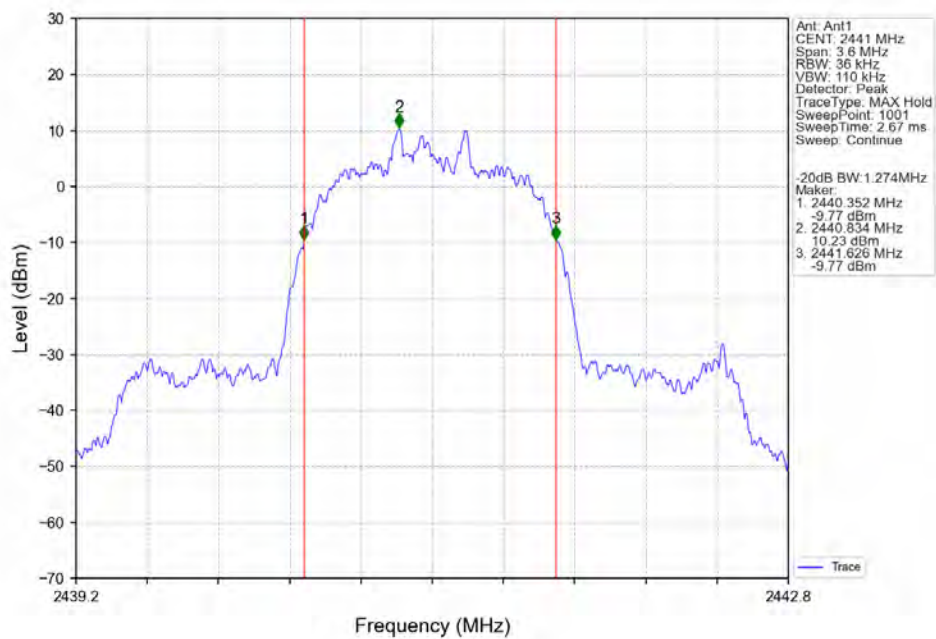
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



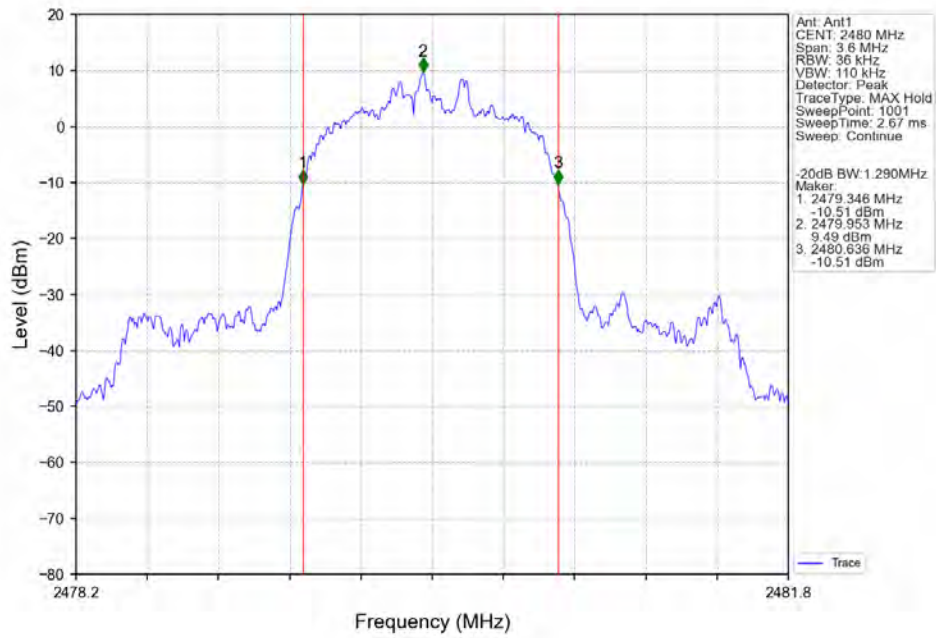
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV





2. Maximum Conducted Output Power

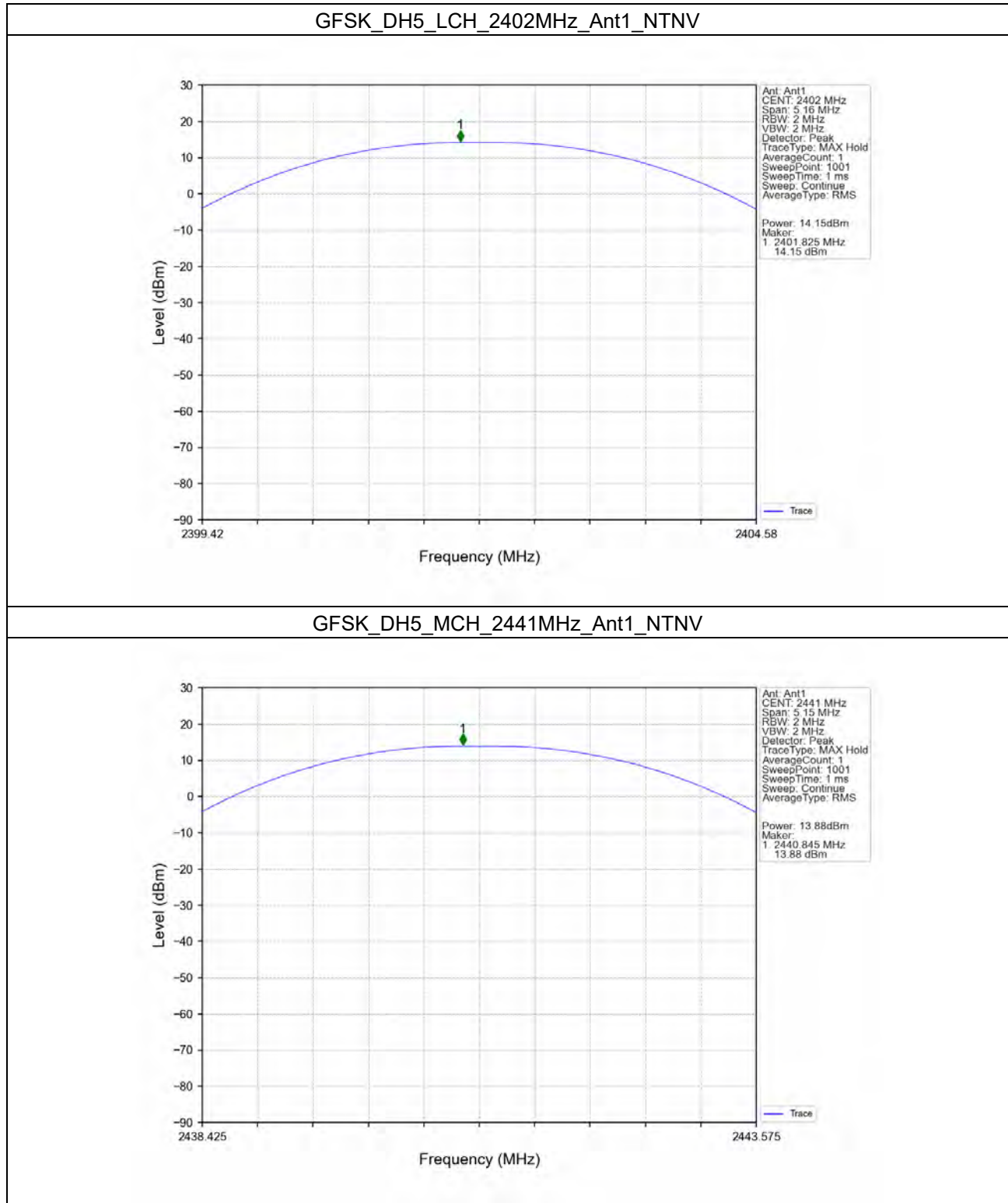
2.1 Test Result

2.1.1 Power

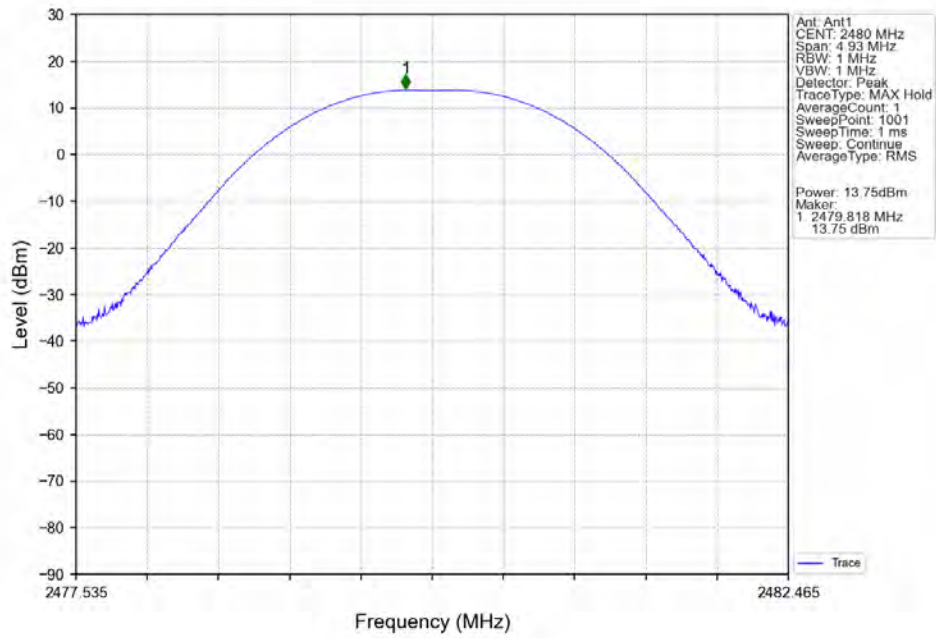
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	14.15	<=20.97	Pass
		2441	DH5	13.88	<=20.97	Pass
		2480	DH5	13.75	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	13.39	<=20.97	Pass
		2441	2DH5	12.96	<=20.97	Pass
		2480	2DH5	12.71	<=20.97	Pass
8DPSK	SISO	2402	3DH5	13.09	<=20.97	Pass
		2441	3DH5	12.52	<=20.97	Pass
		2480	3DH5	12.38	<=20.97	Pass
Note1: Antenna Gain: Ant1: 2.40dBi;						

2.2 Test Graph

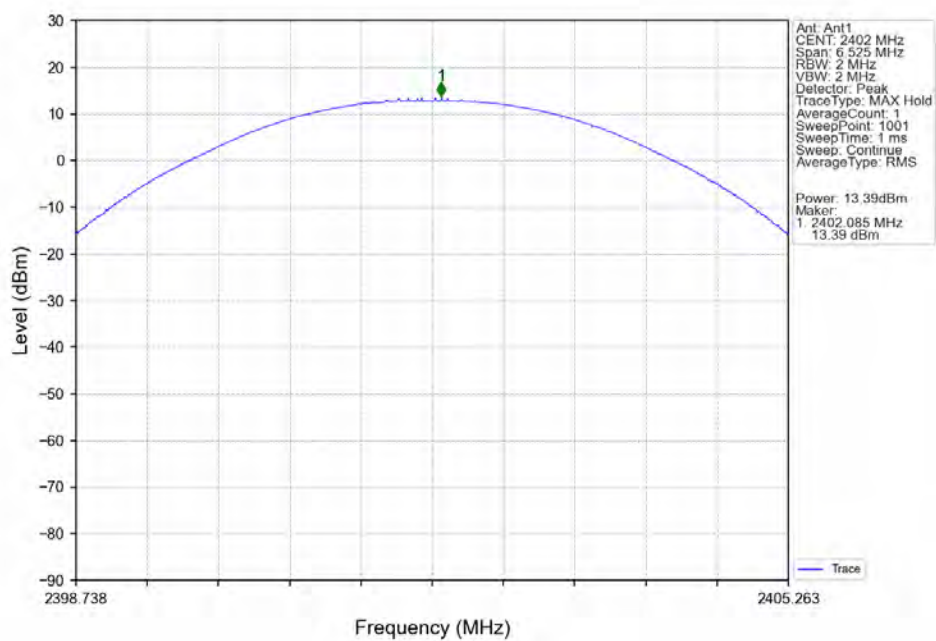
2.2.1 Power



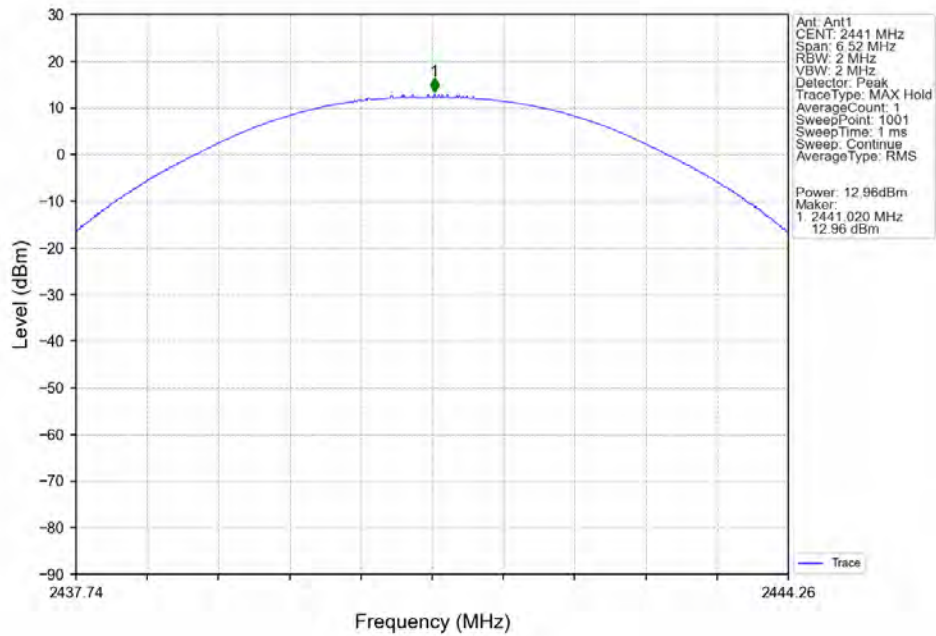
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



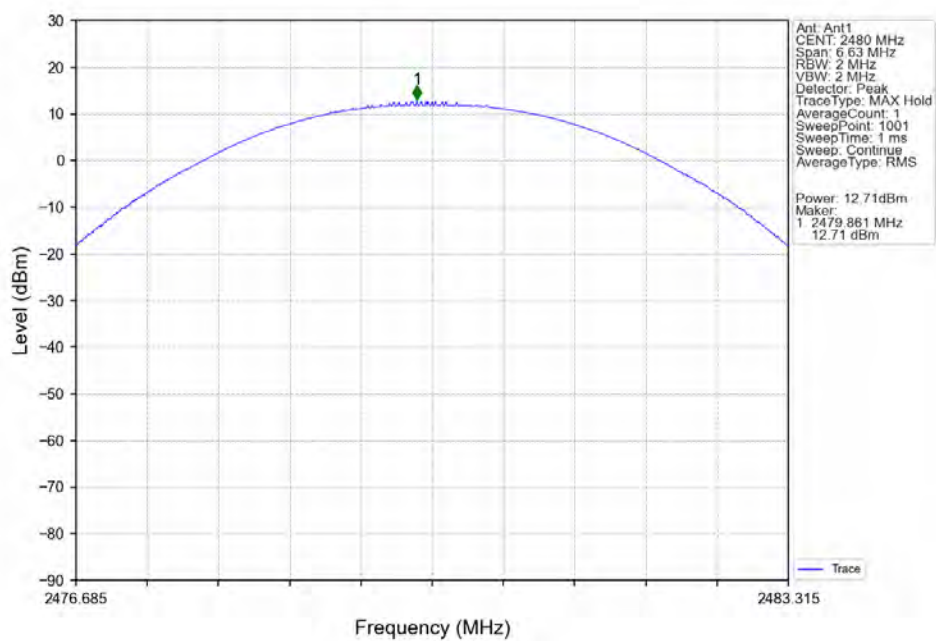
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



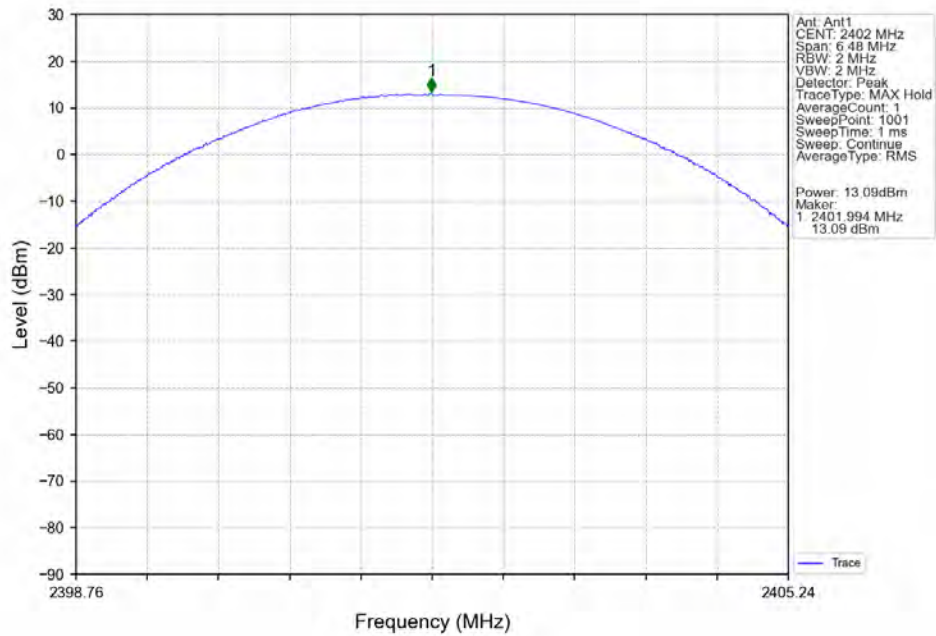
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



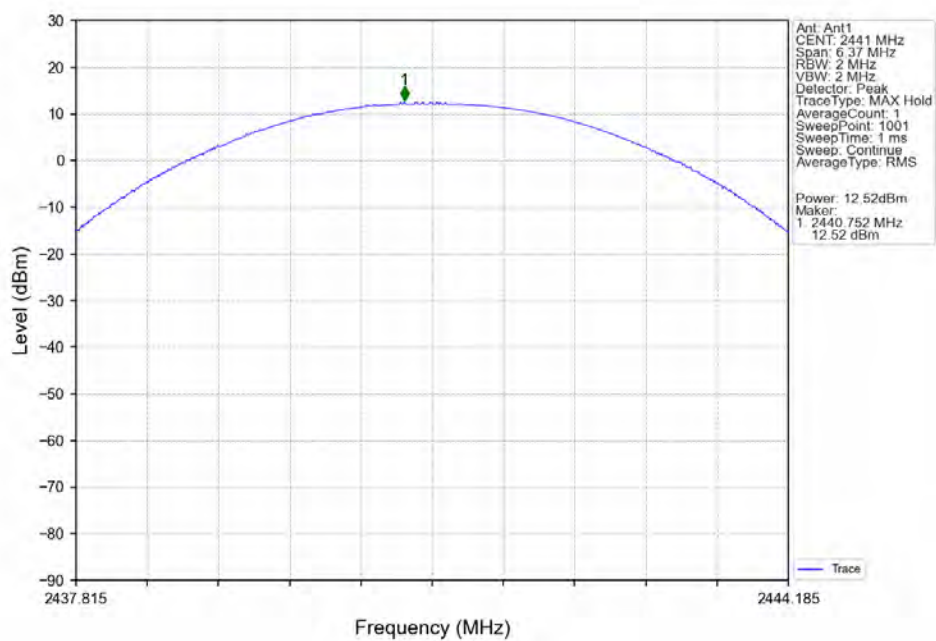
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



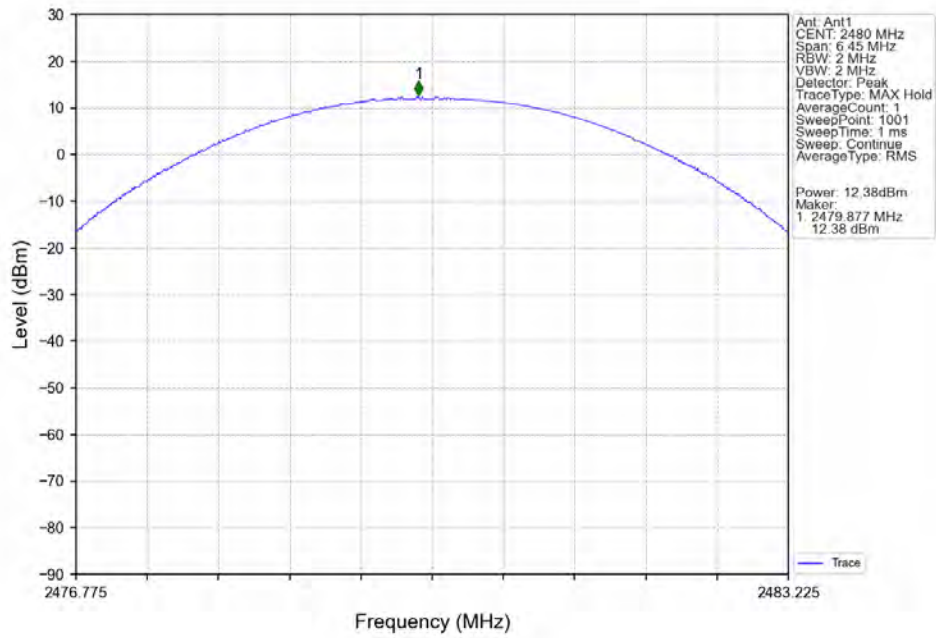
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV





3. Carrier Frequency Separation

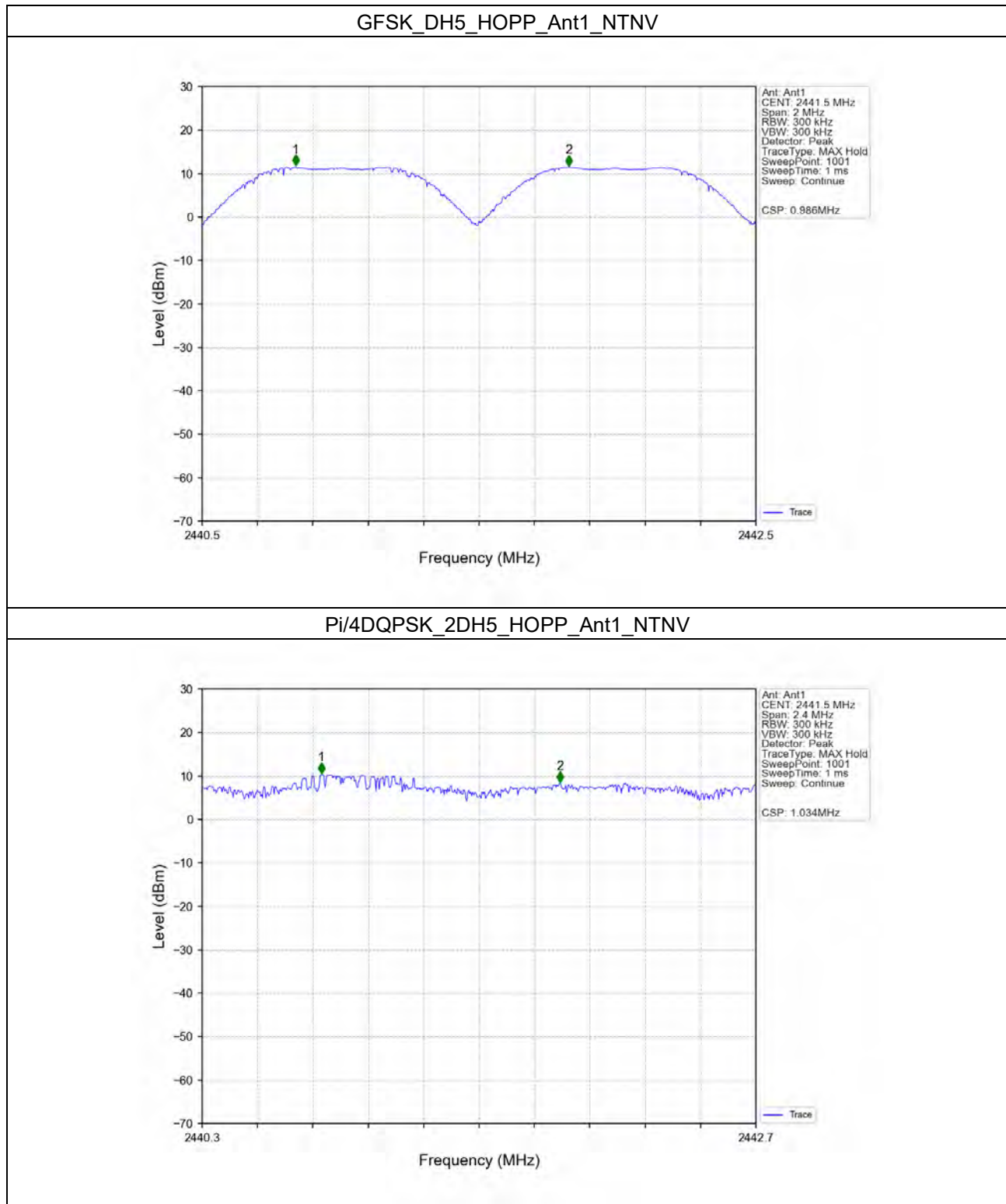
3.1 Test Result

3.1.1 Ant1

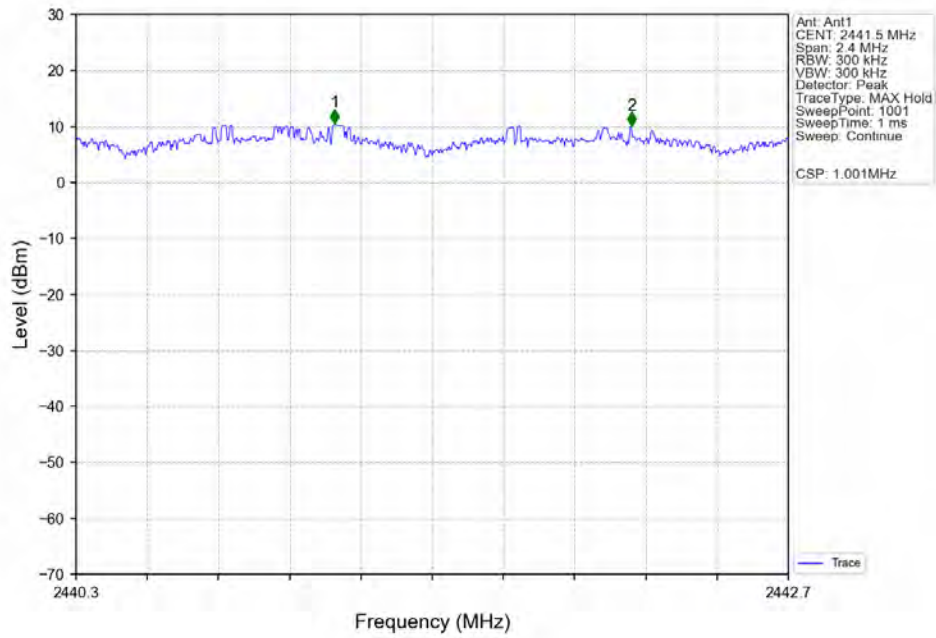
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.986	1.032	≥ 0.688	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.034	1.326	≥ 0.884	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.296	≥ 0.864	Pass

3.2 Test Graph

3.2.1 Ant1



8DPSK_3DH5_HOPP_Ant1_NTNV





4. Number of Hopping Frequencies

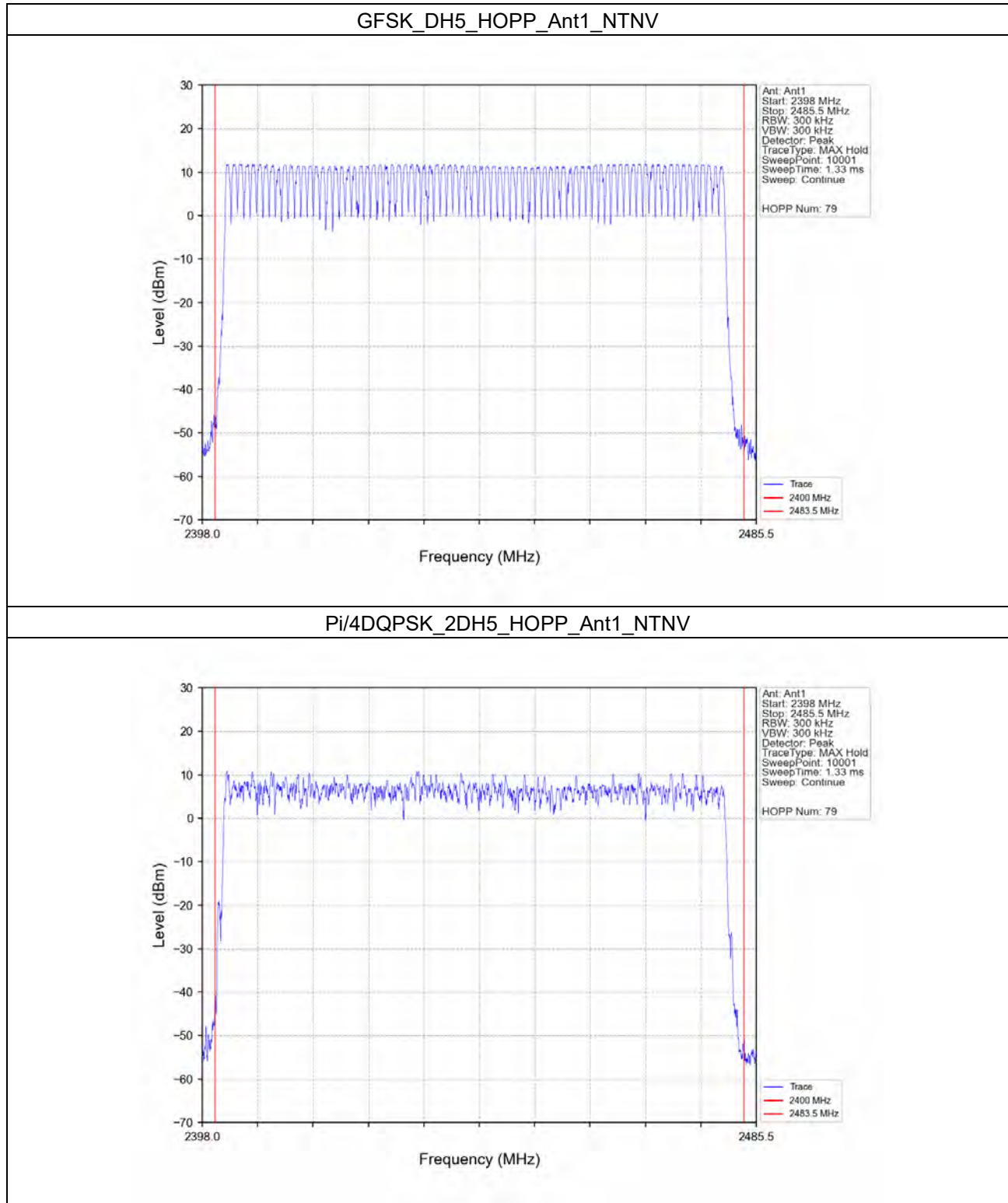
4.1 Test Result

4.1.1 HoppNum

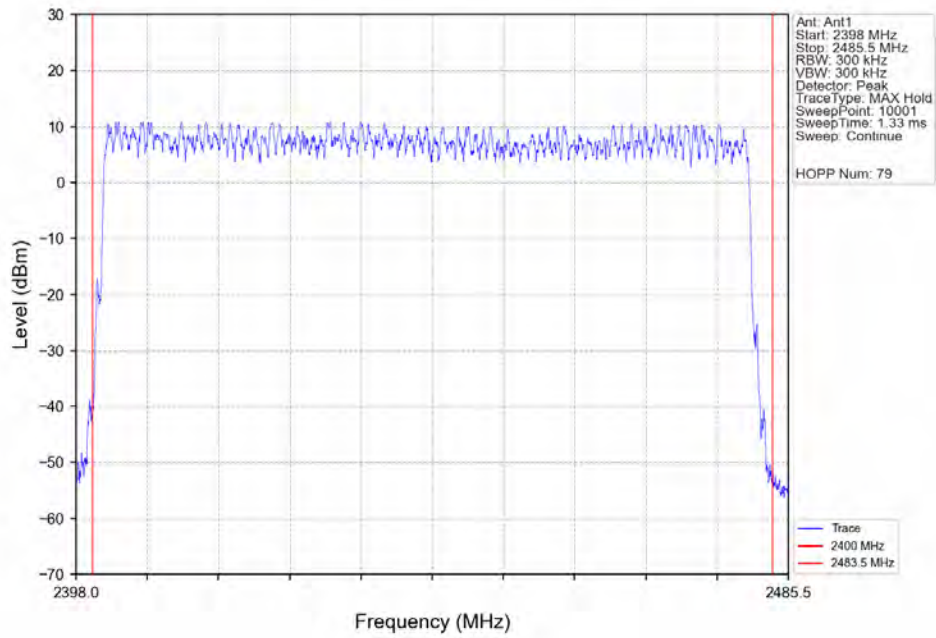
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
PI/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass

4.2 Test Graph

4.2.1 HoppNum



8DPSK_3DH5_HOPP_Ant1_NTNV



5. Time of Occupancy (Dwell Time)

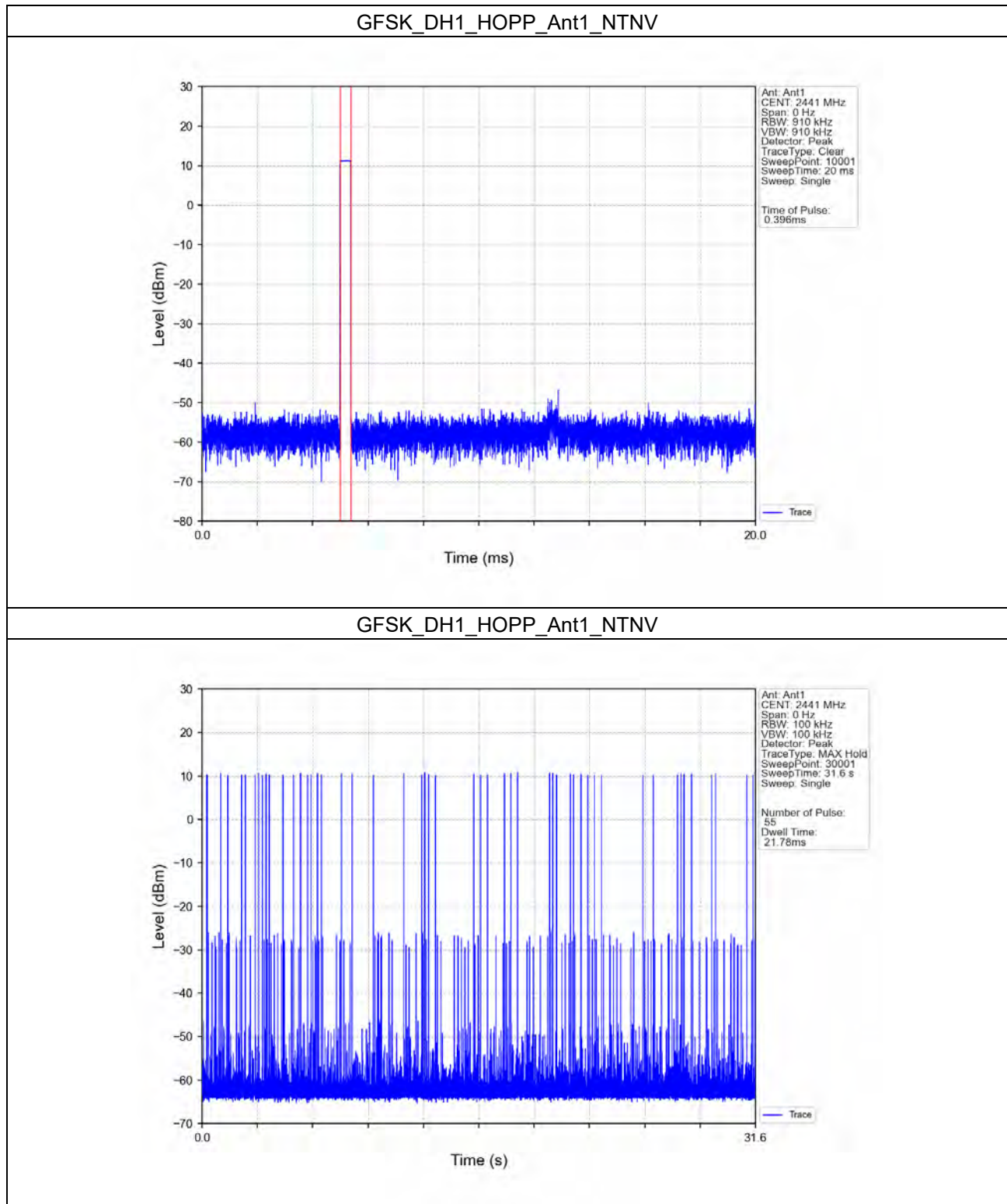
5.1 Test Result

5.1.1 Ant1

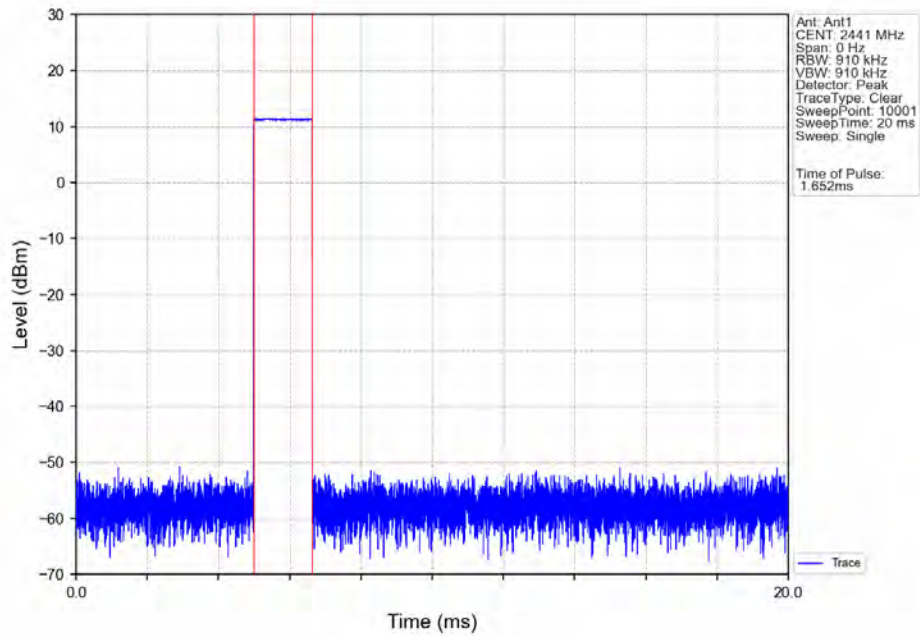
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.396	31.600	55	21.780	<=400	Pass
			DH3	1.652	31.600	58	95.816	<=400	Pass
			DH5	2.894	31.600	56	162.064	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.404	31.600	54	21.816	<=400	Pass
			2DH3	1.654	31.600	61	100.894	<=400	Pass
			2DH5	2.902	31.600	61	177.022	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.402	31.600	57	22.914	<=400	Pass
			3DH3	1.652	31.600	48	79.296	<=400	Pass
			3DH5	2.906	31.600	56	162.736	<=400	Pass

5.2 Test Graph

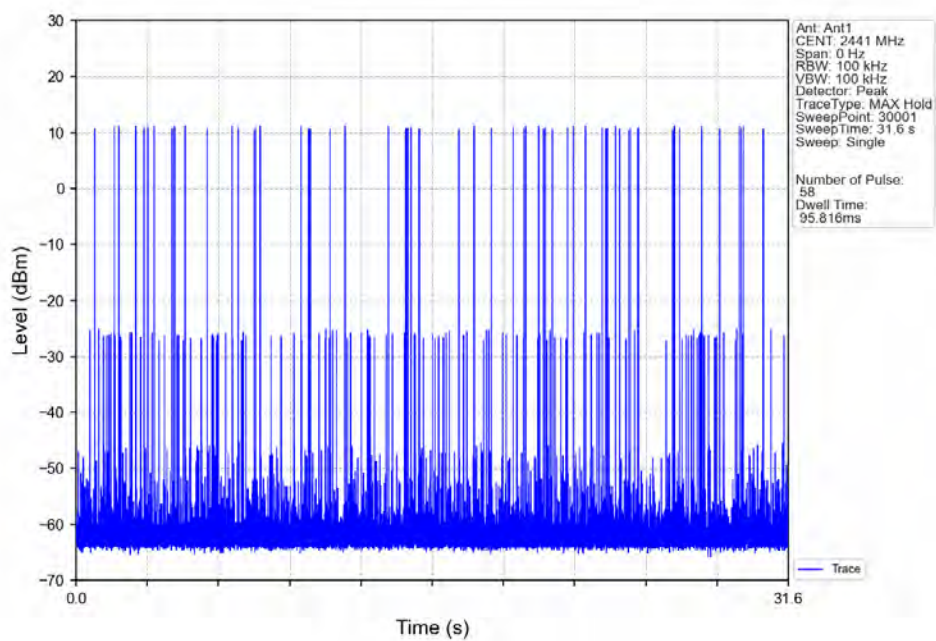
5.2.1 Ant1



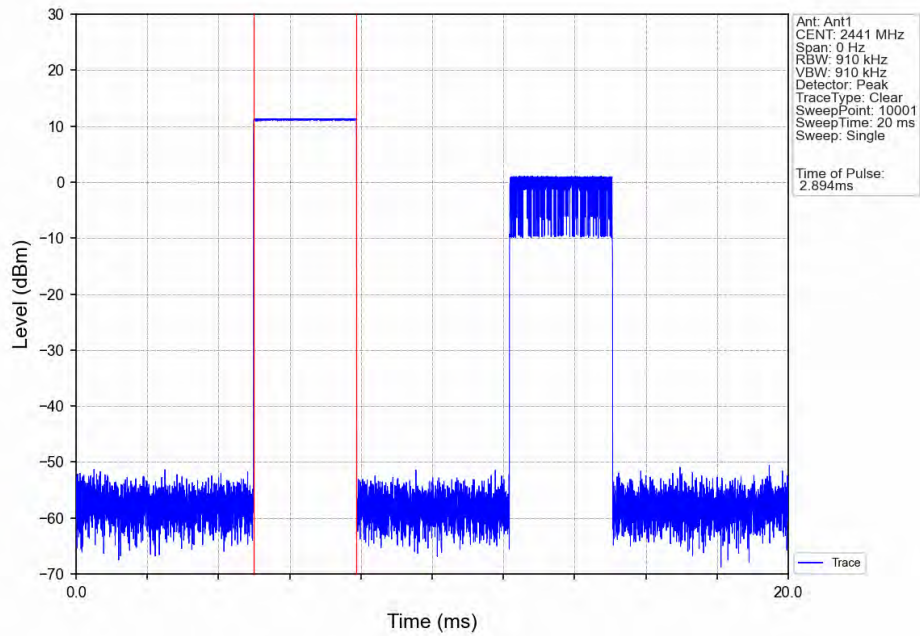
GFSK_DH3_HOPP_Ant1_NTNV



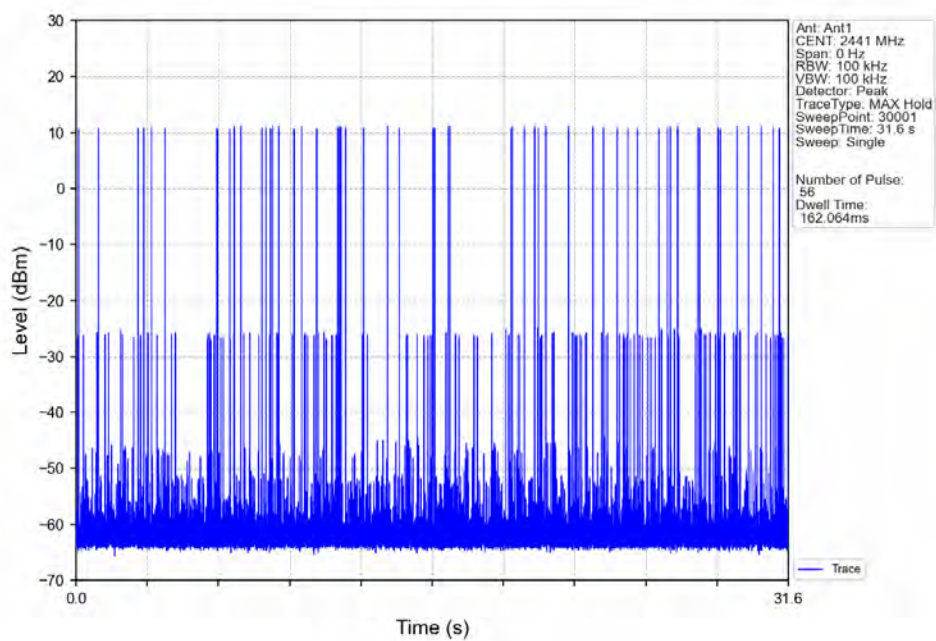
GFSK_DH3_HOPP_Ant1_NTNV



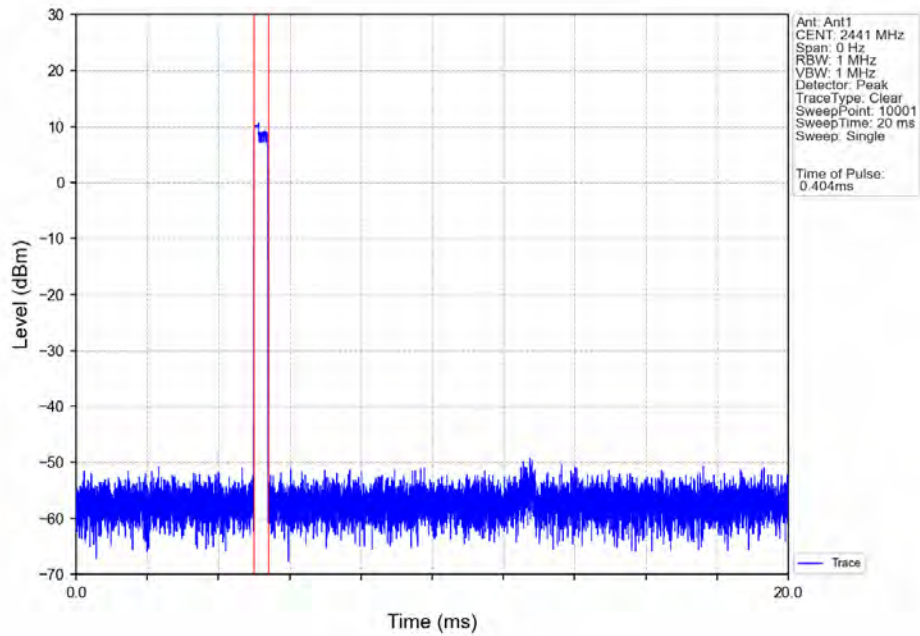
GFSK_DH5_HOPP_Ant1_NTNV



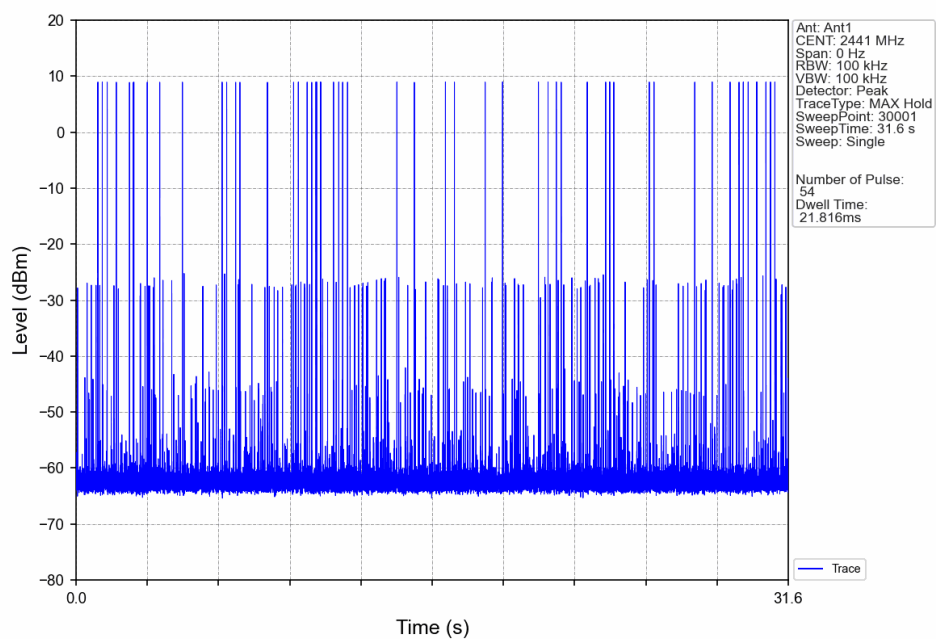
GFSK_DH5_HOPP_Ant1_NTNV



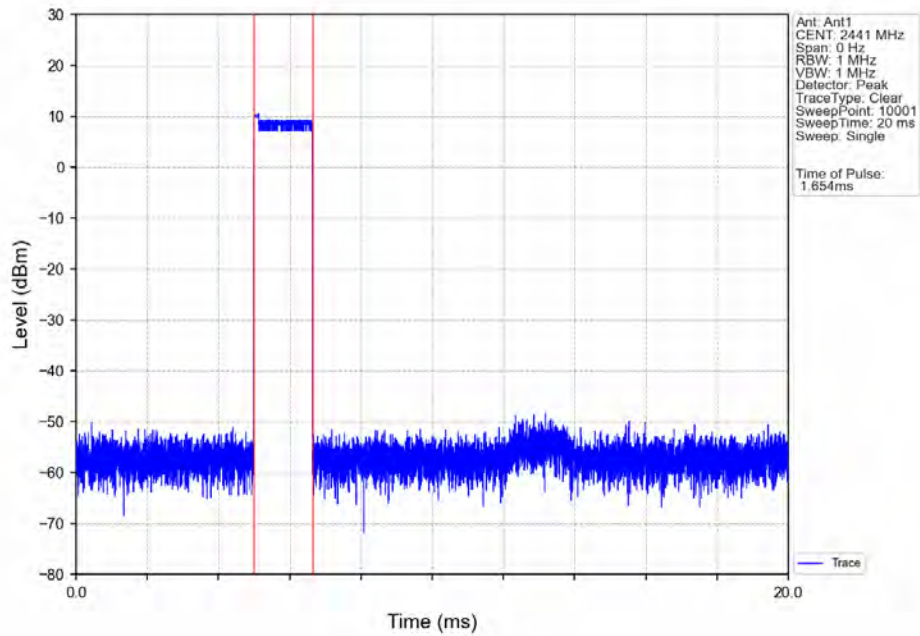
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



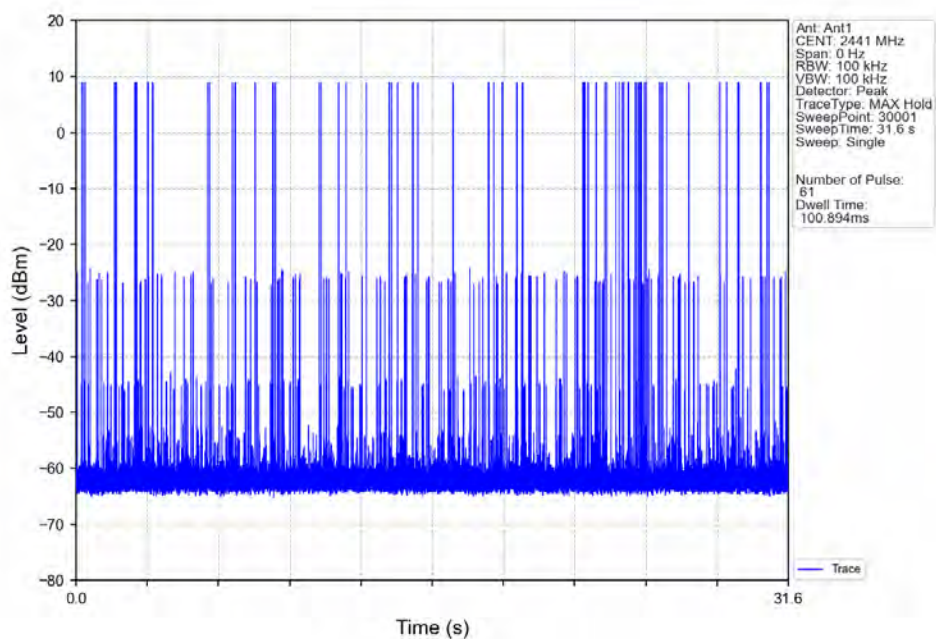
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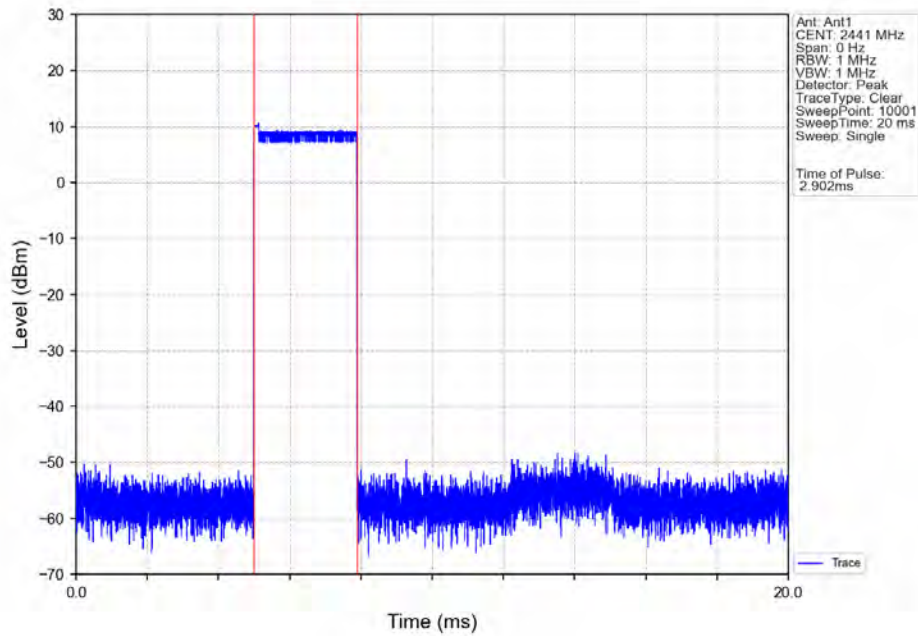
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



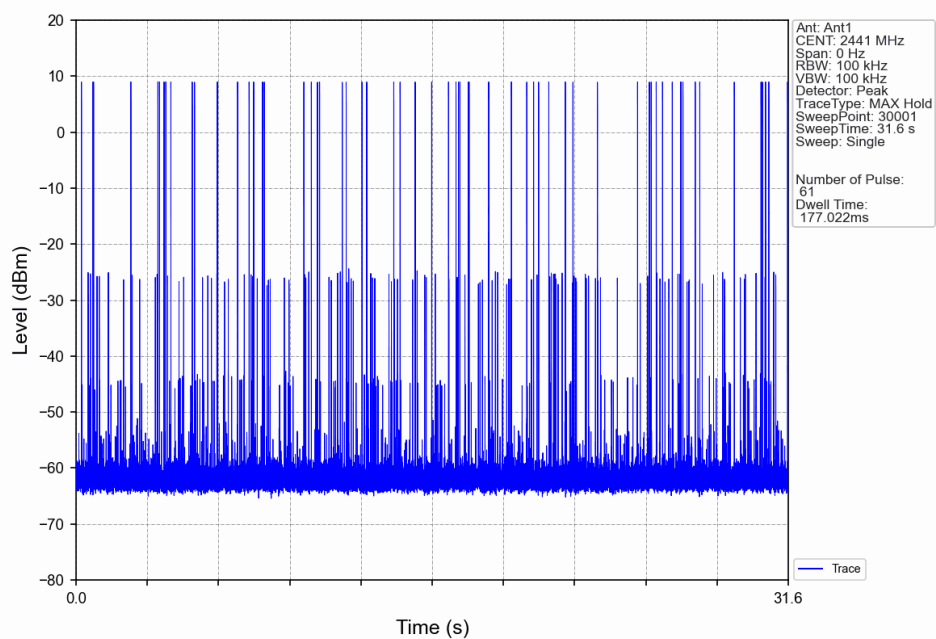
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



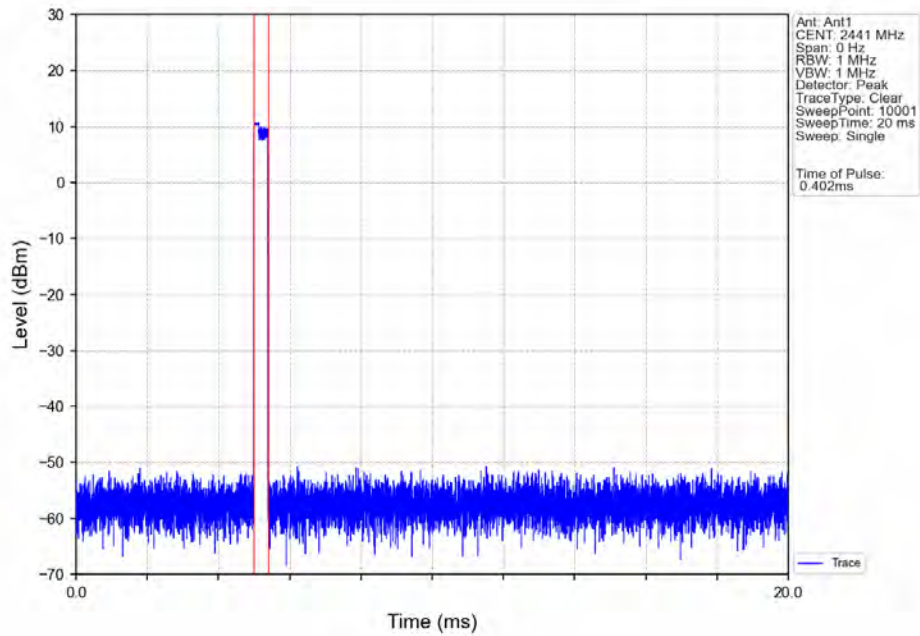
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



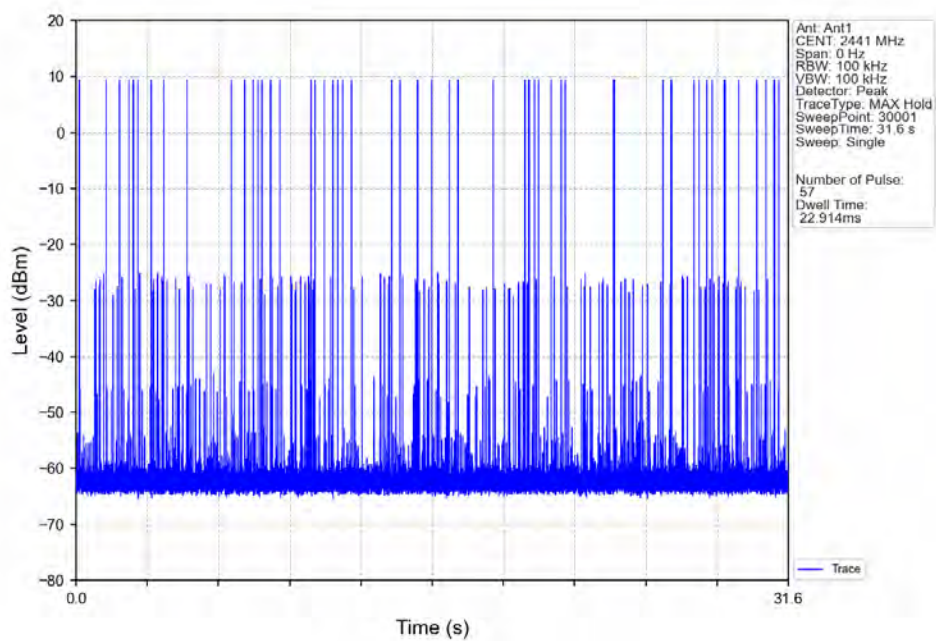
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



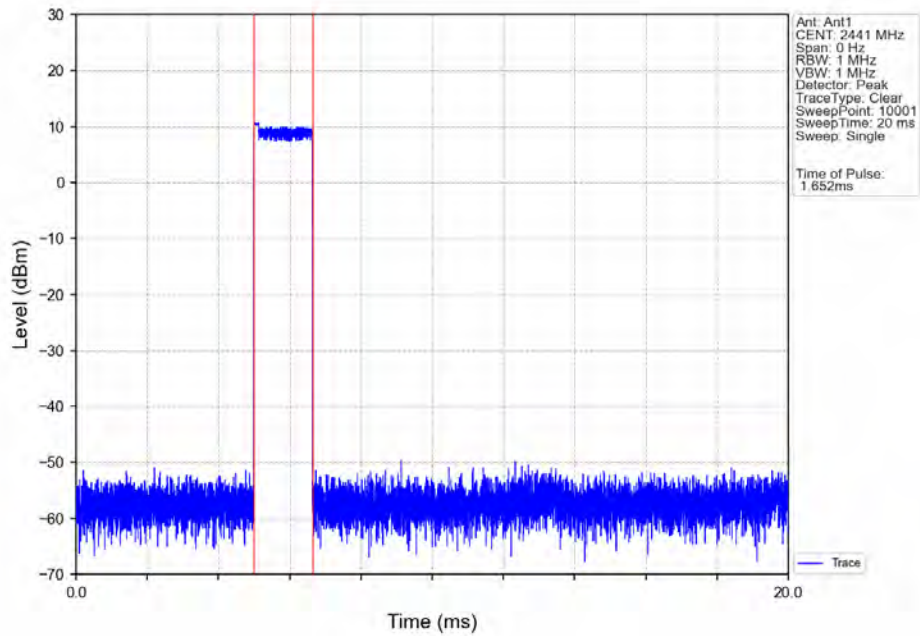
8DPSK_3DH1_HOPP_Ant1_NTNV



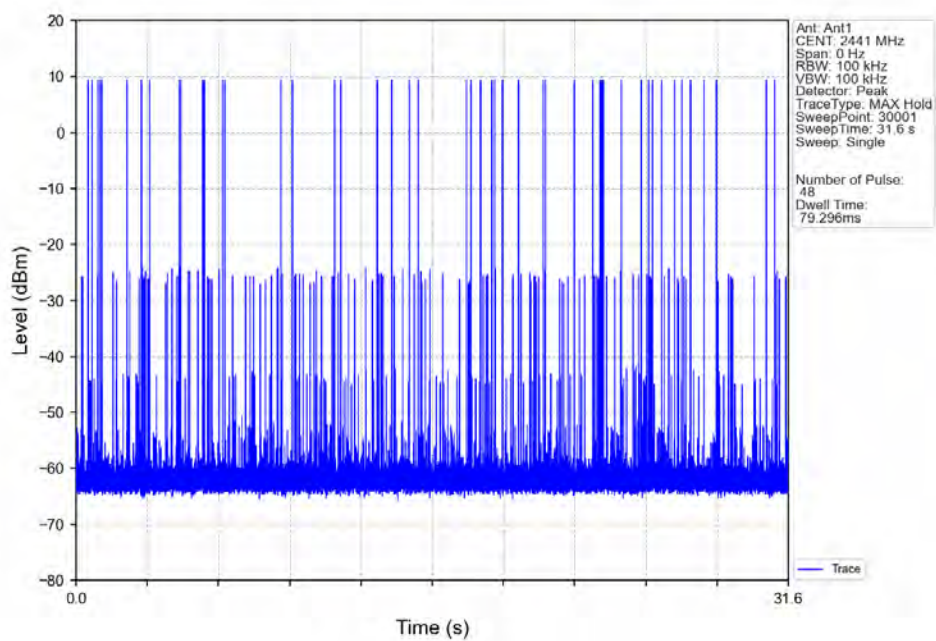
8DPSK_3DH1_HOPP_Ant1_NTNV



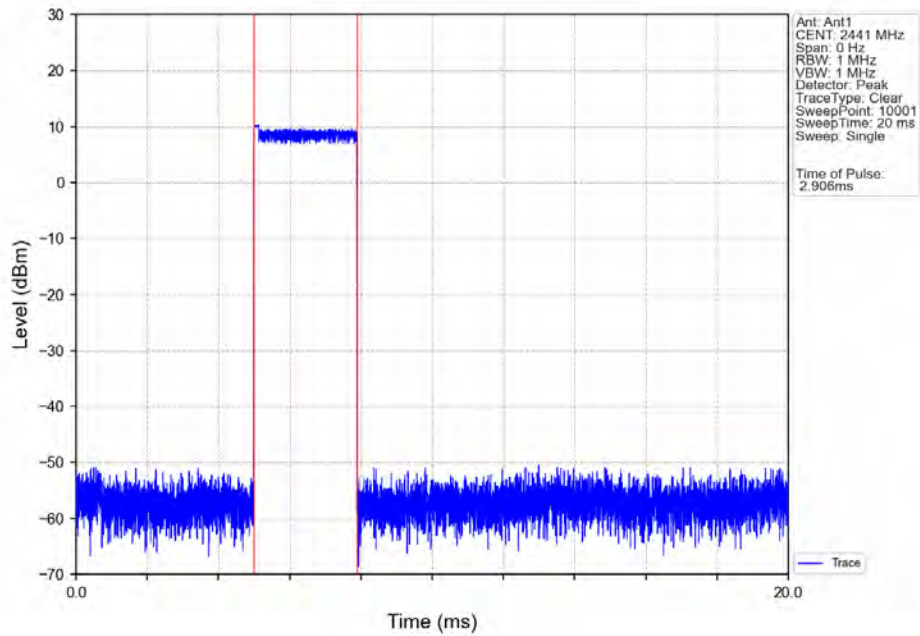
8DPSK_3DH3_HOPP_Ant1_NTNV



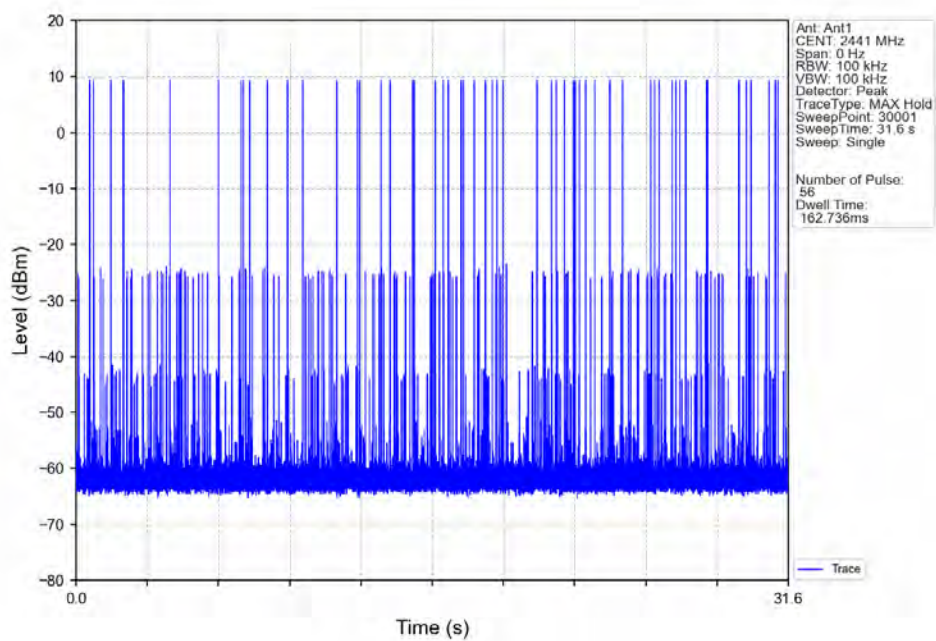
8DPSK_3DH3_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Test Result

6.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	11.45
		2441	DH5	1	11.02
		2480	DH5	1	10.97
Pi/4DQPSK	SISO	2402	2DH5	1	10.47
		2441	2DH5	1	10.01
		2480	2DH5	1	9.90
8DPSK	SISO	2402	3DH5	1	10.74
		2441	3DH5	1	10.37
		2480	3DH5	1	9.64

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10 (2020), the channel contains the maximum PSD level was used to establish the reference level.

6.1.2 CSE

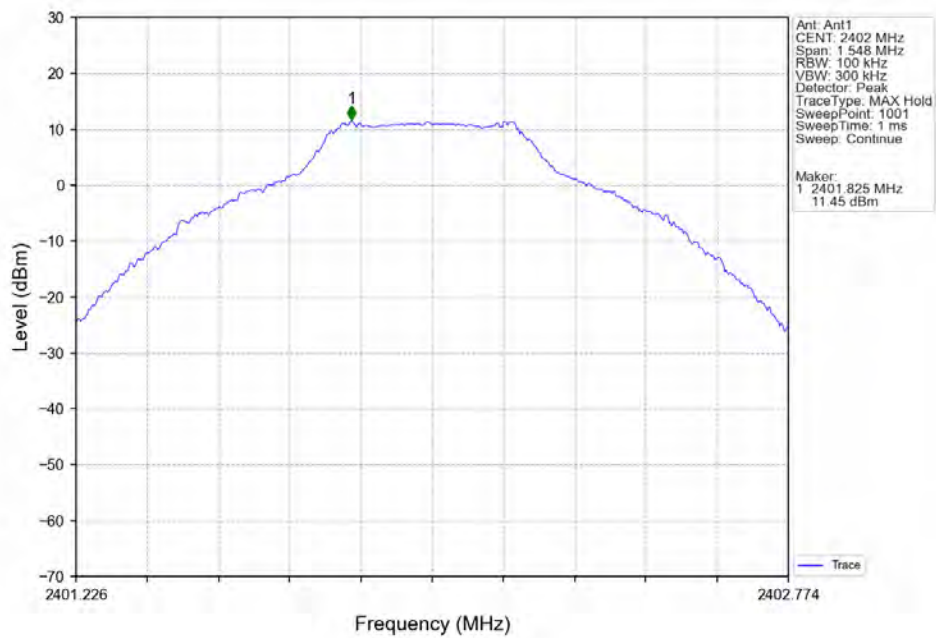
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	11.45	-8.55	Pass
		2441	DH5	1	11.45	-8.55	Pass
		2480	DH5	1	11.45	-8.55	Pass
		HOPP	DH5	1	11.45	-8.55	Pass
					11.45	-8.55	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	10.47	-9.53	Pass
		2441	2DH5	1	10.47	-9.53	Pass
		2480	2DH5	1	10.47	-9.53	Pass
		HOPP	2DH5	1	10.47	-9.53	Pass
					10.47	-9.53	Pass
8DPSK	SISO	2402	3DH5	1	10.74	-9.26	Pass
		2441	3DH5	1	10.74	-9.26	Pass
		2480	3DH5	1	10.74	-9.26	Pass
		HOPP	3DH5	1	10.74	-9.26	Pass
					10.74	-9.26	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10 (2020), the channel contains the maximum PSD level was used to establish the reference level.

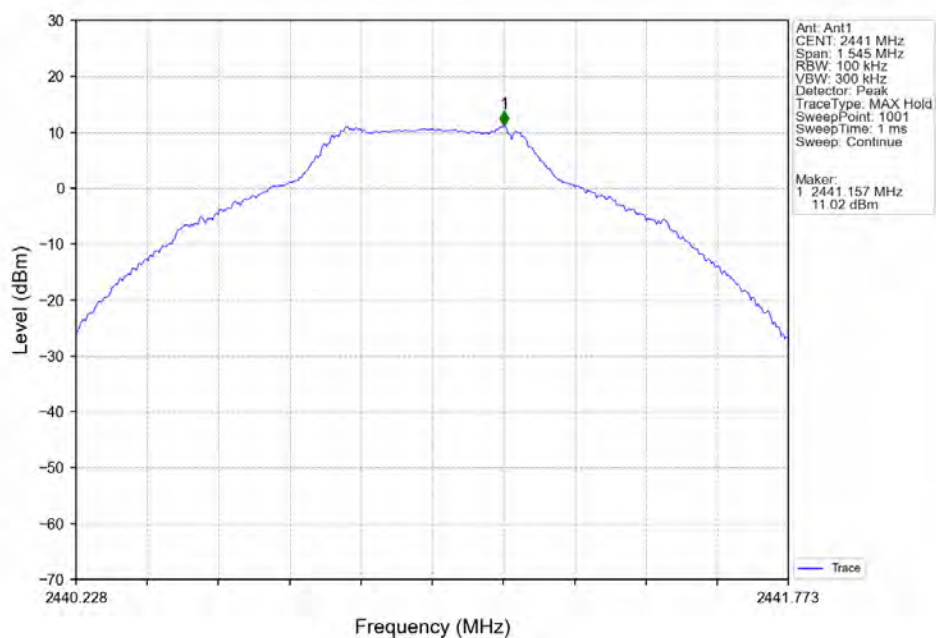
6.2 Test Graph

6.2.1 Ref

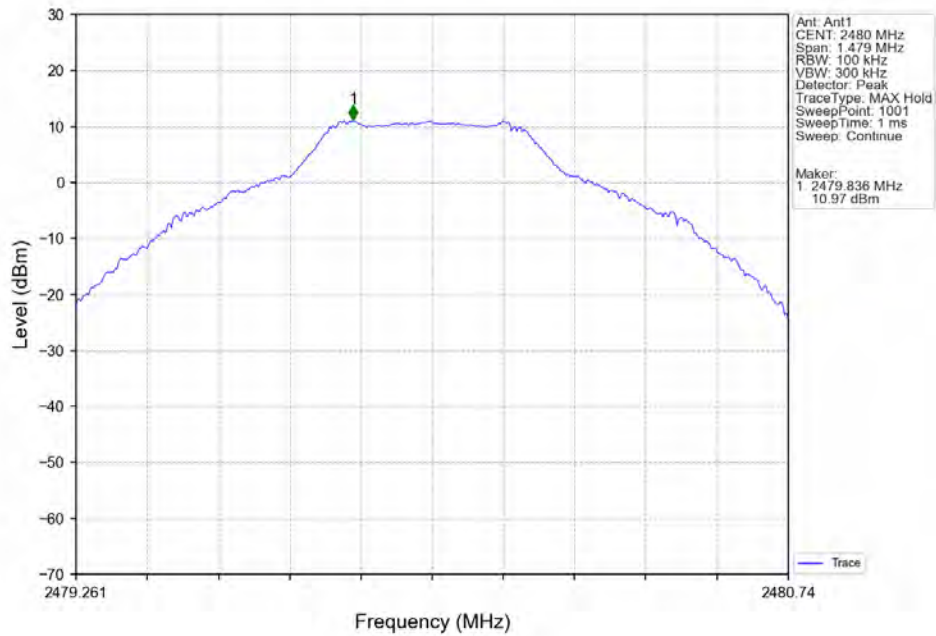
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



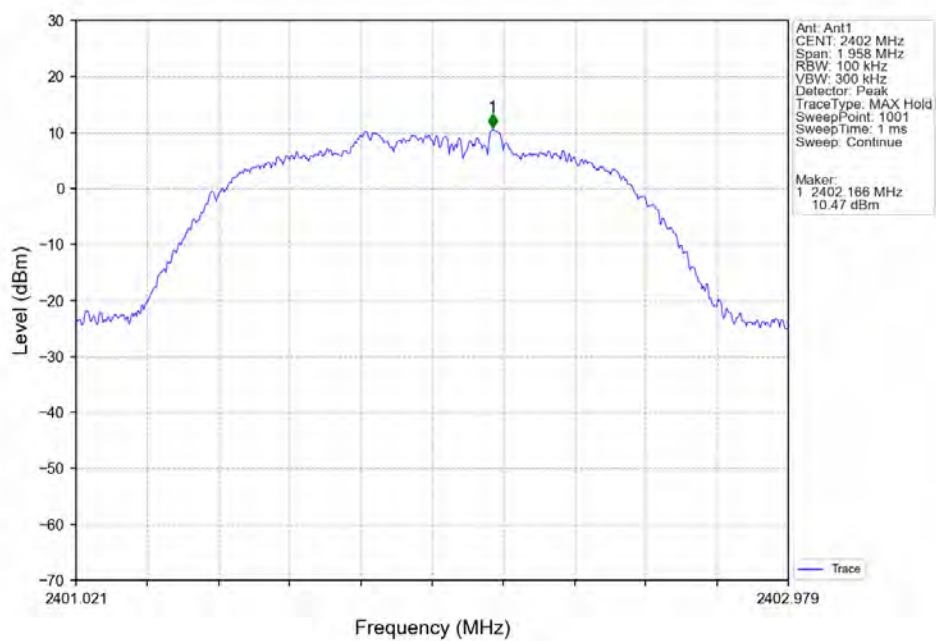
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



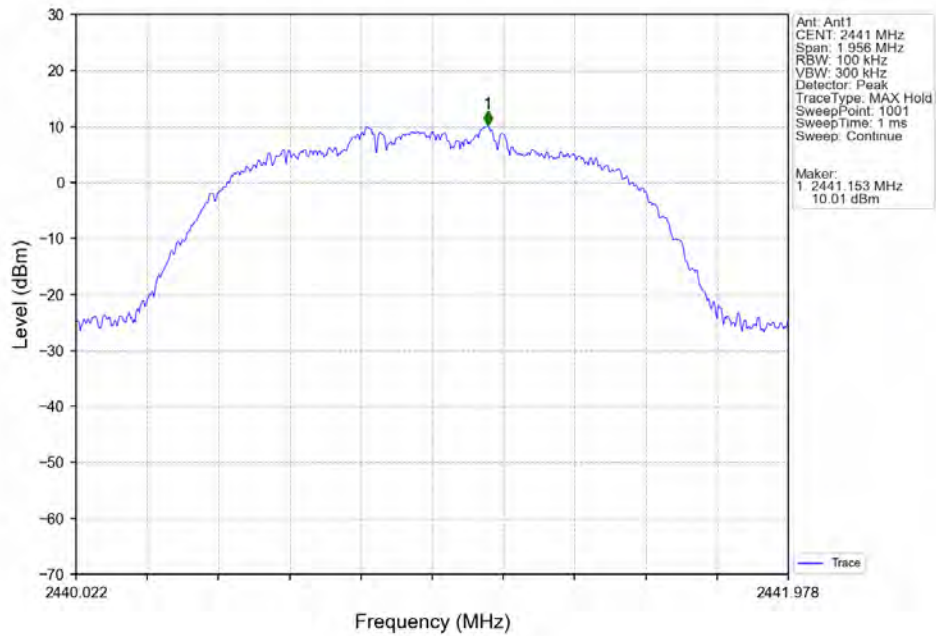
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



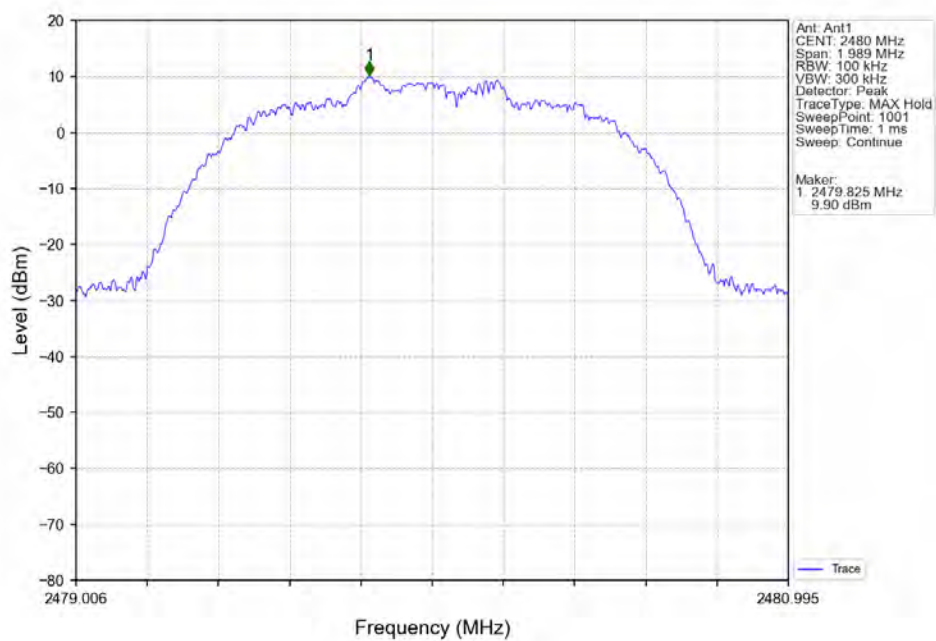
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



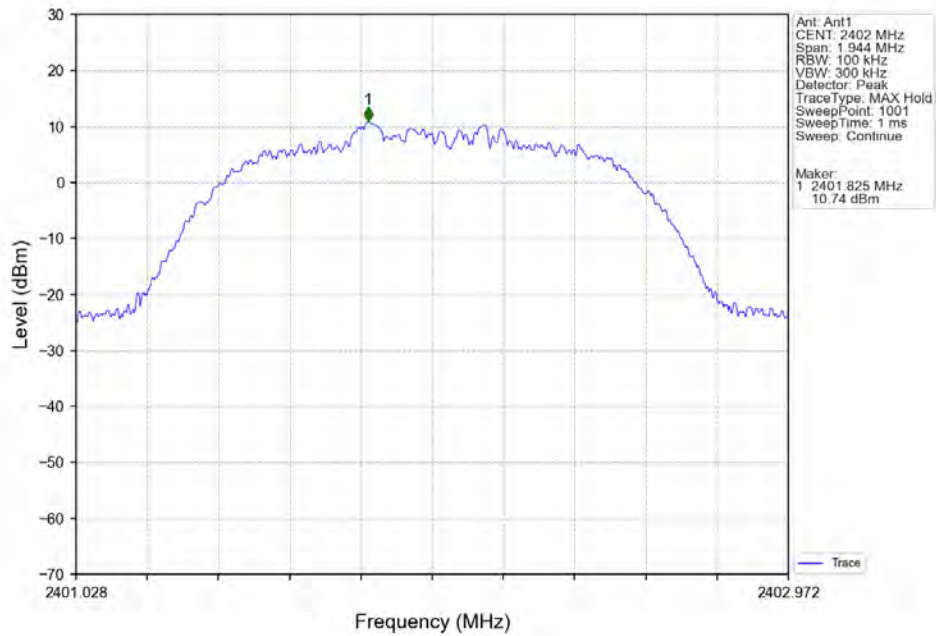
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



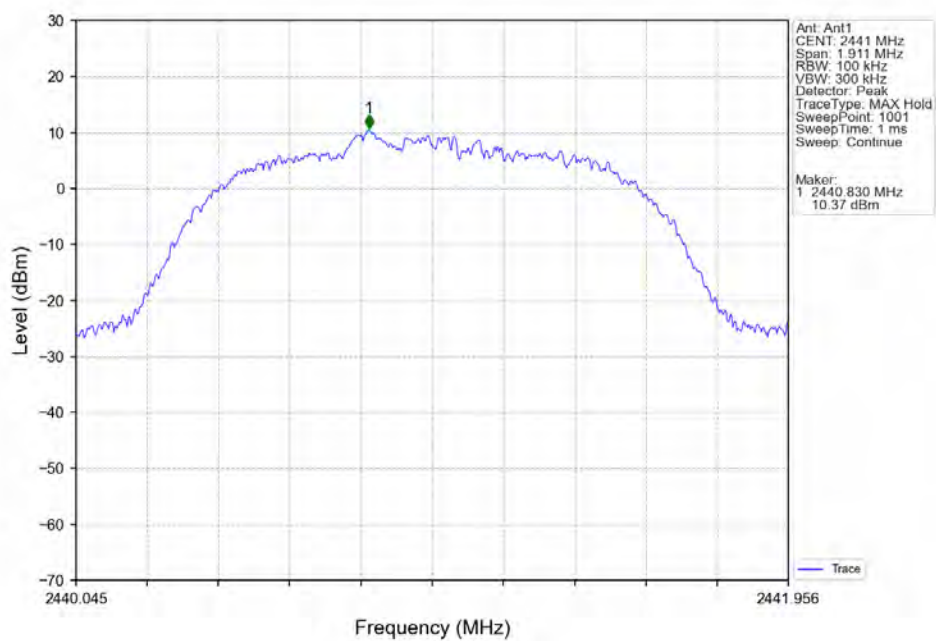
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



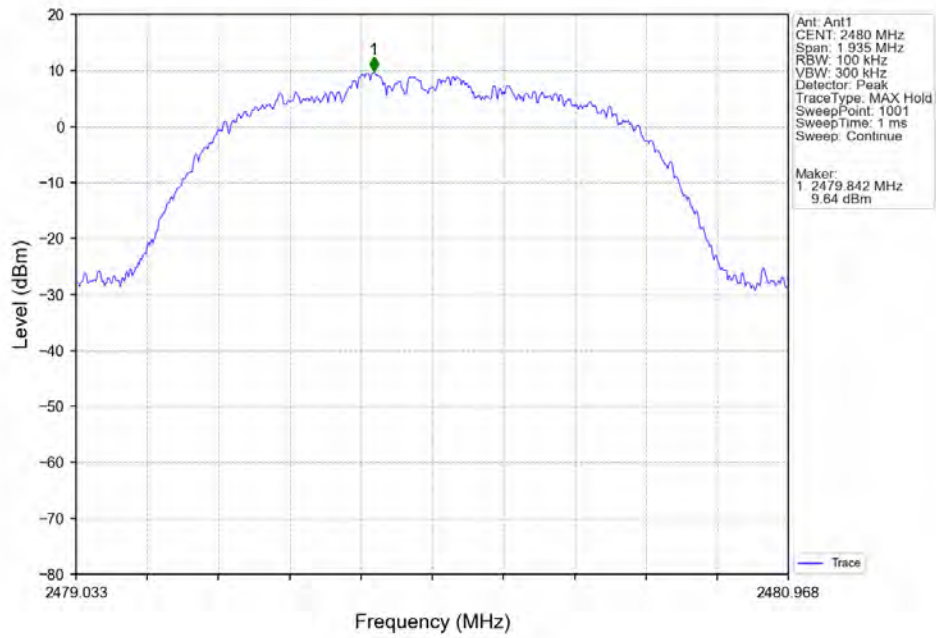
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

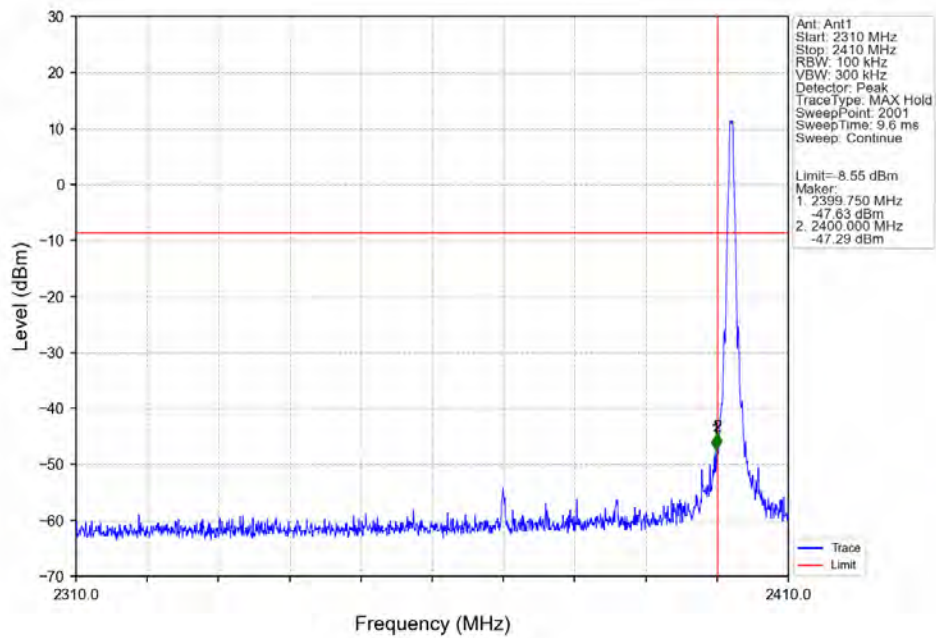


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

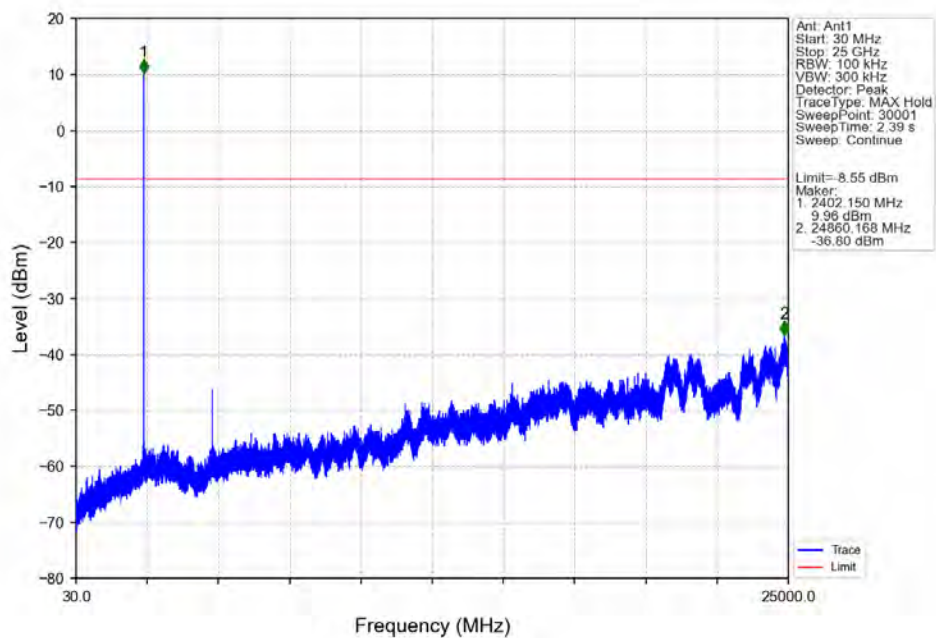


6.2.2 CSE

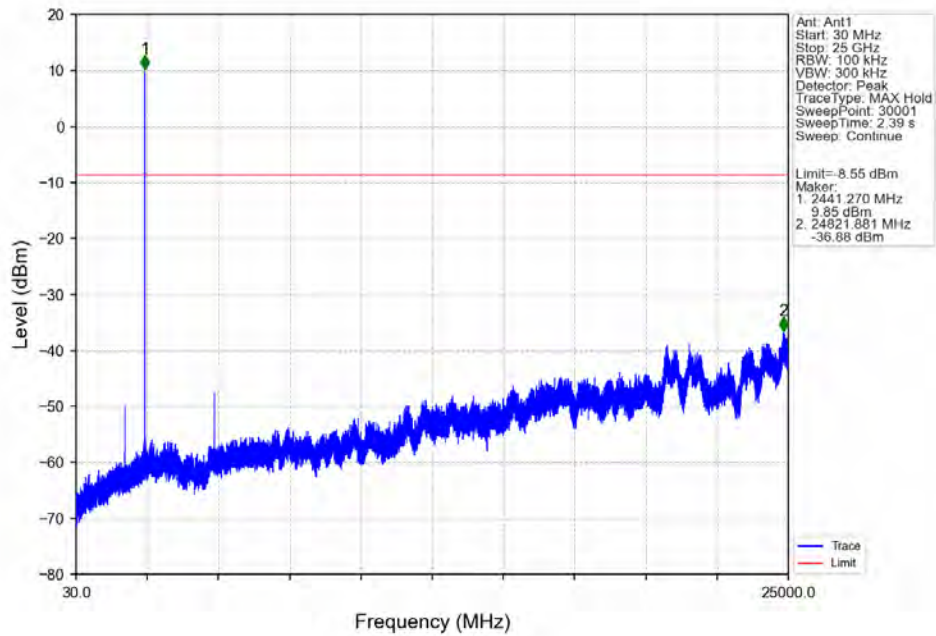
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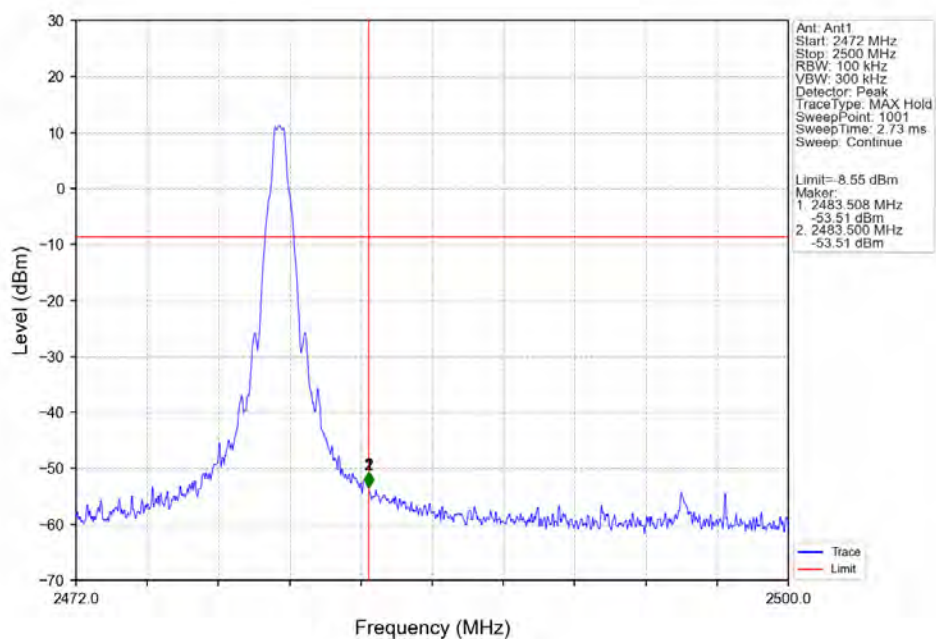
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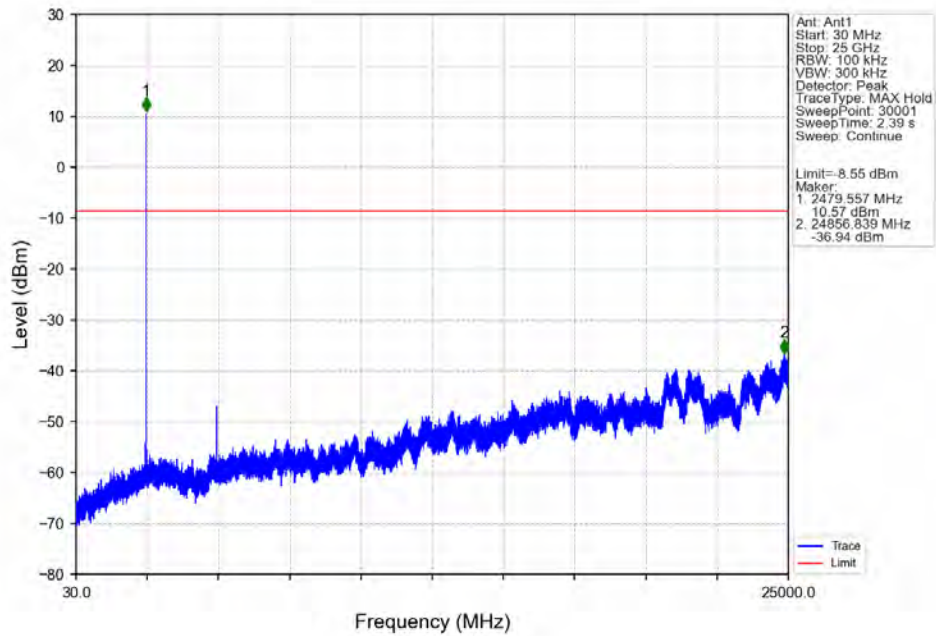
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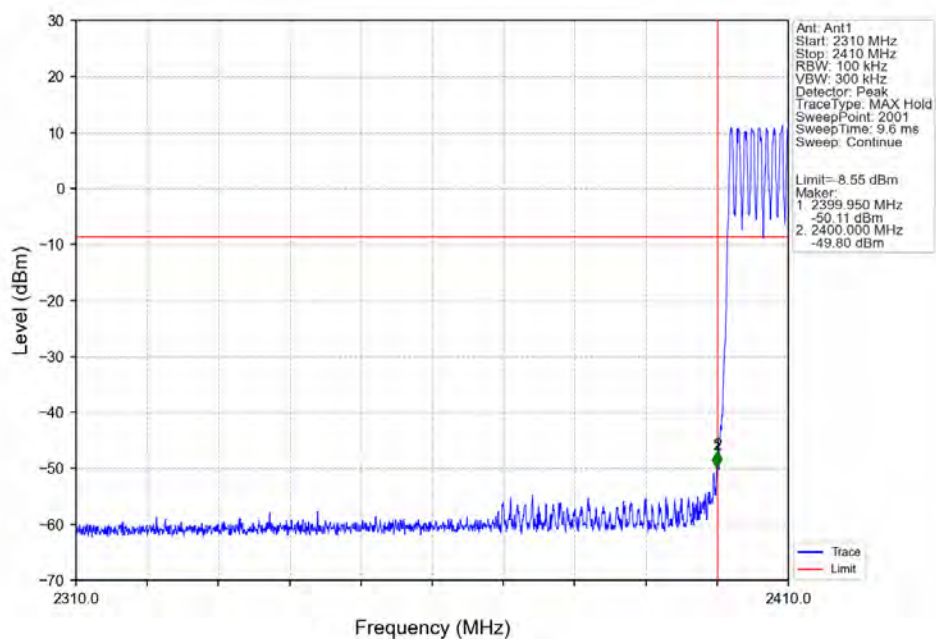
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



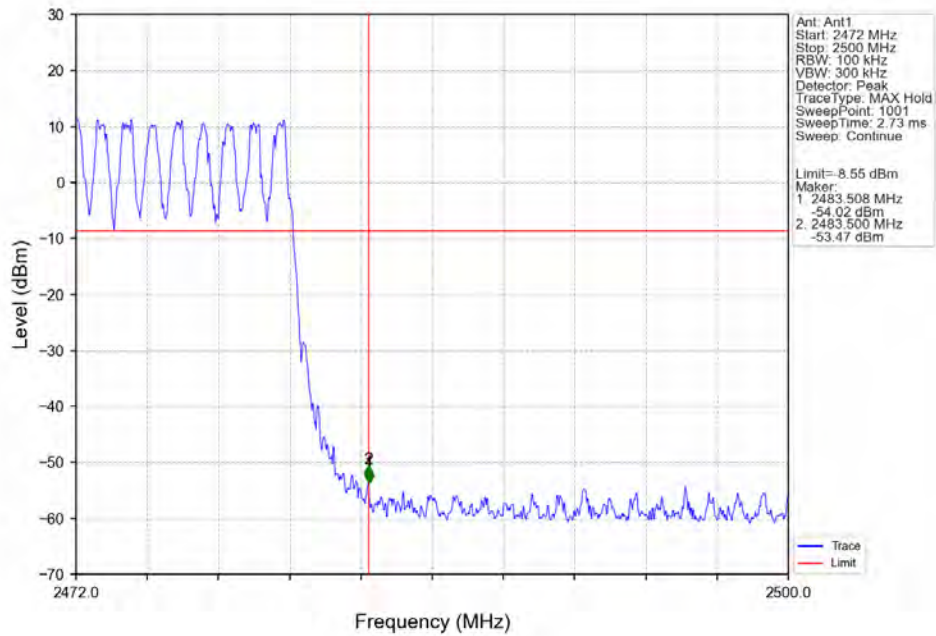
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



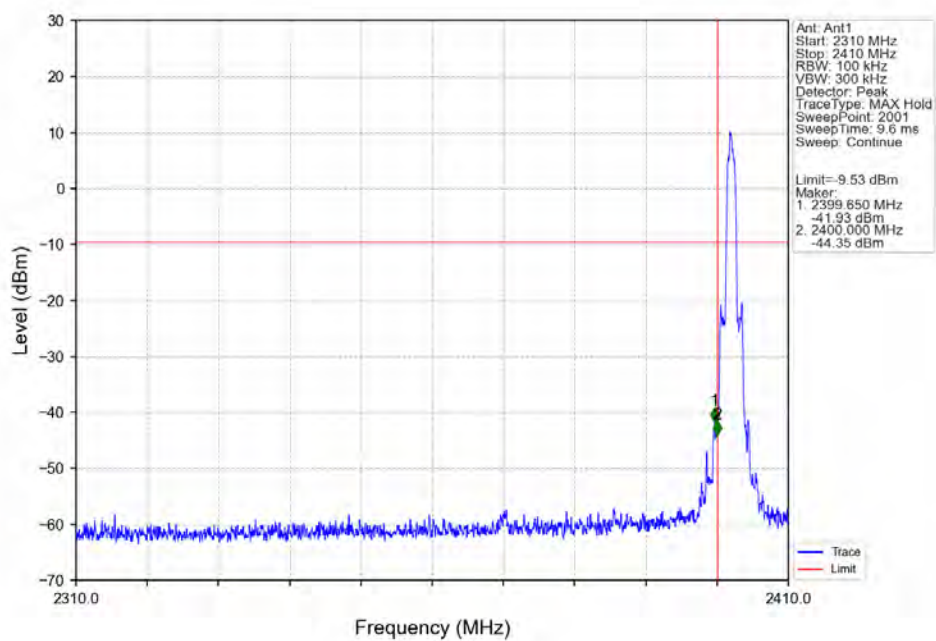
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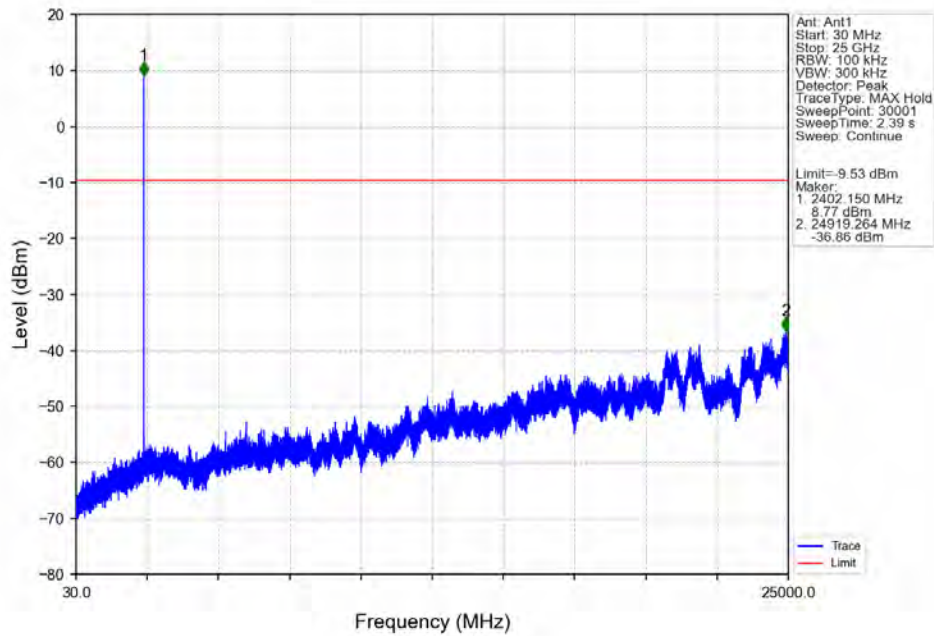
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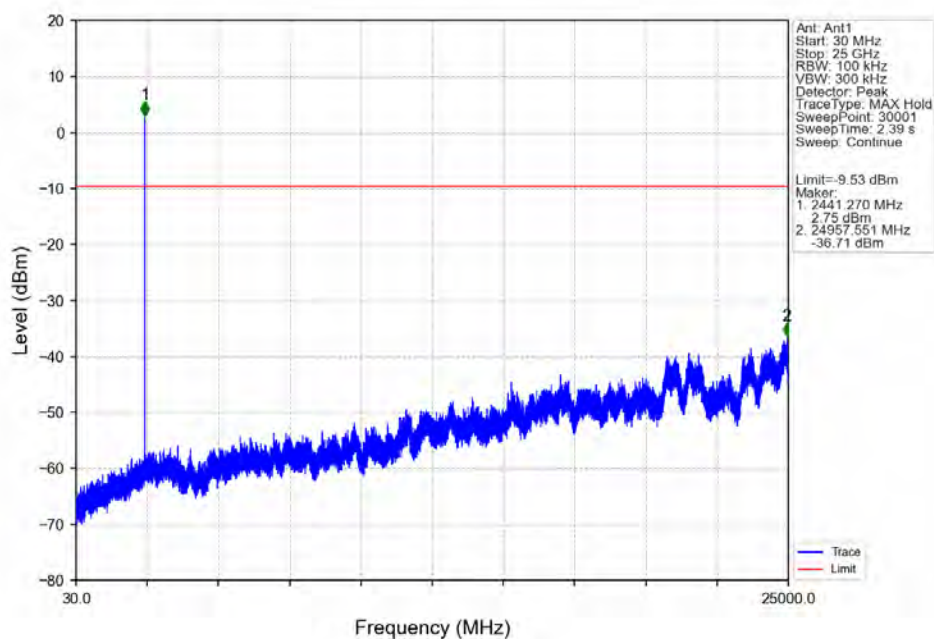
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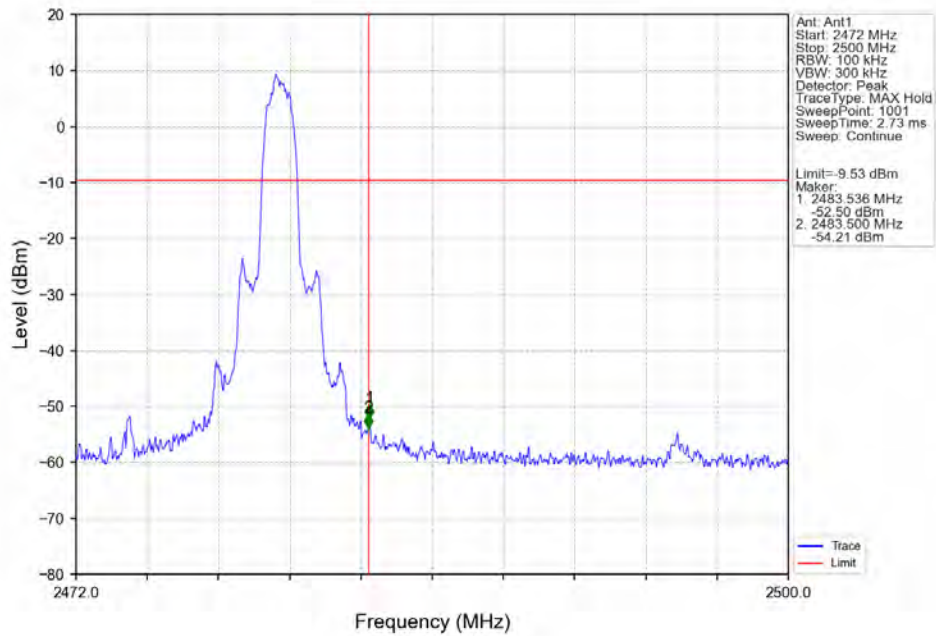
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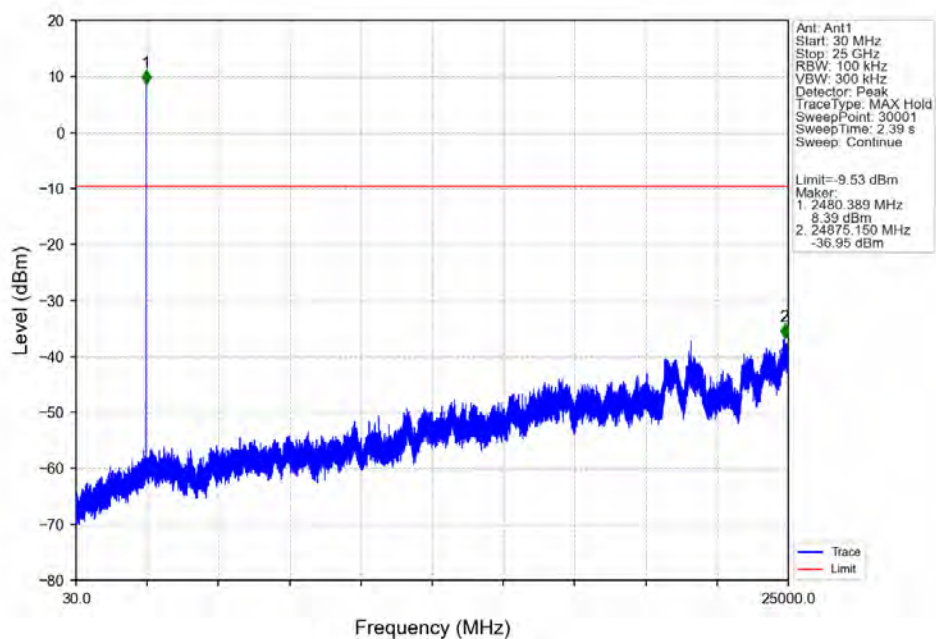
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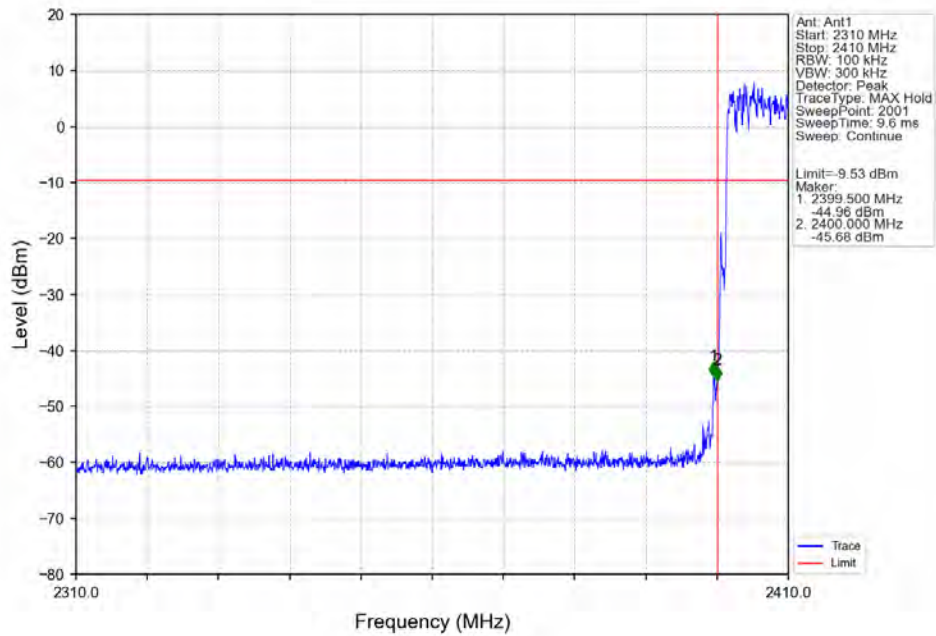
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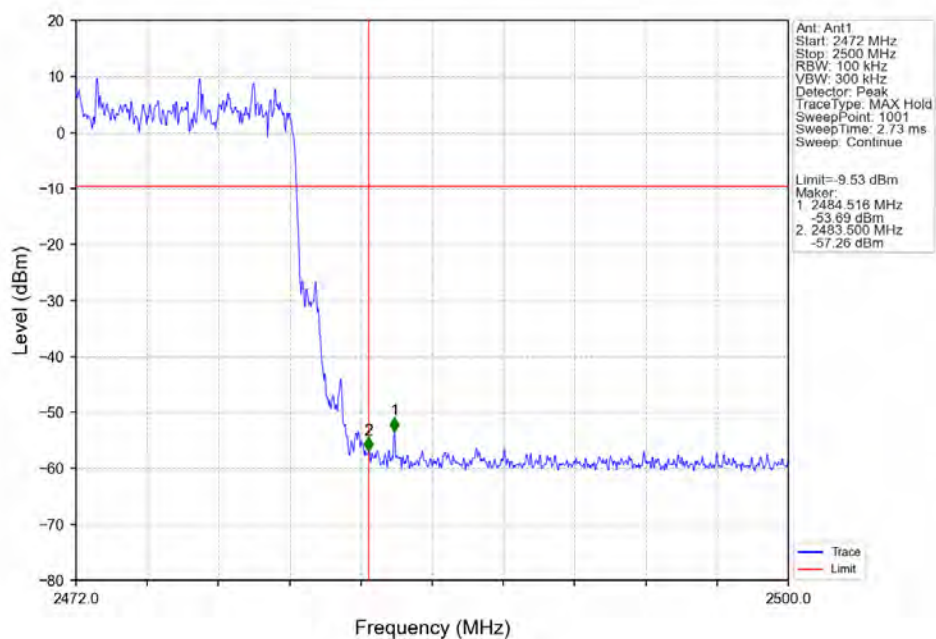
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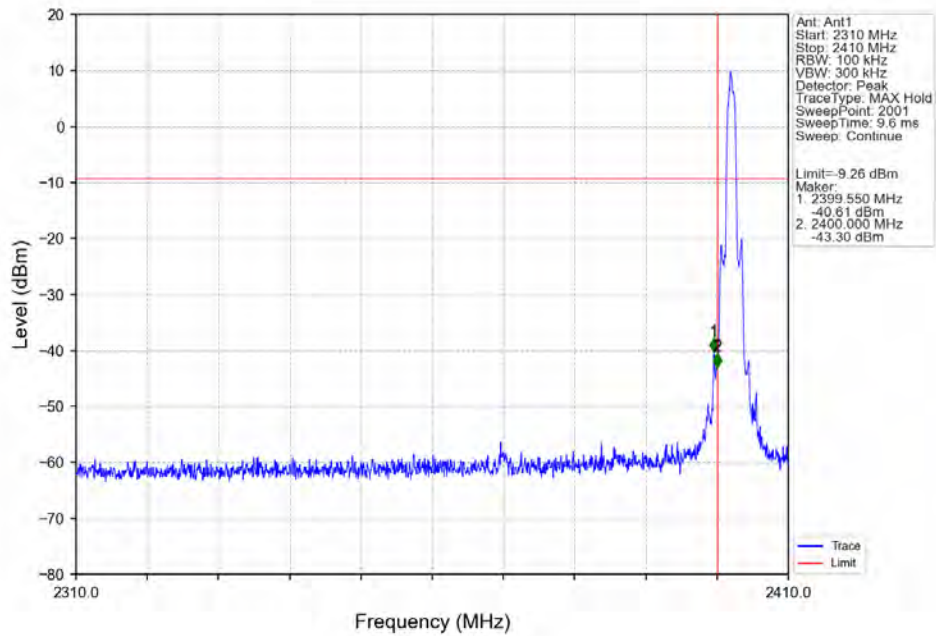
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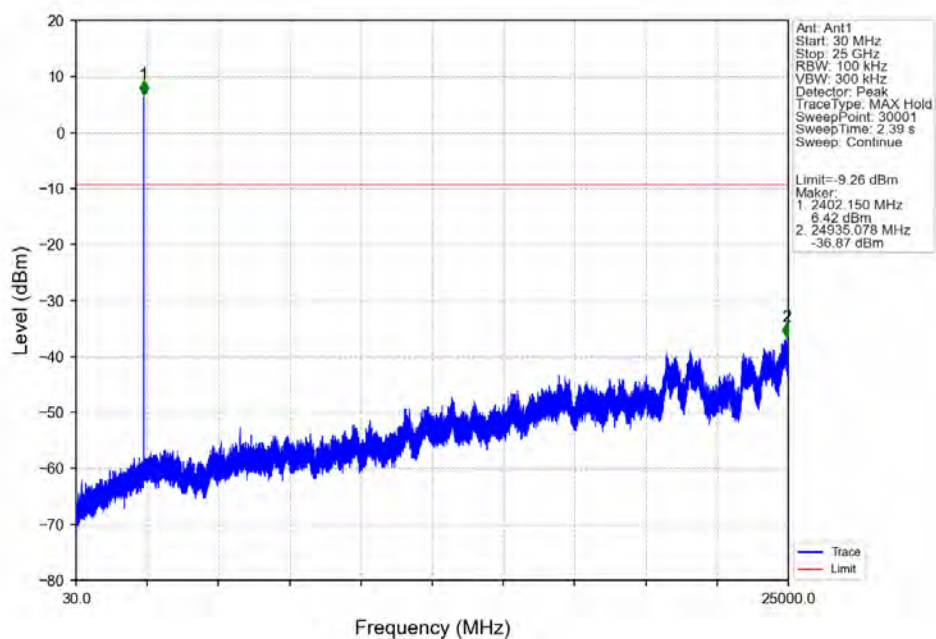
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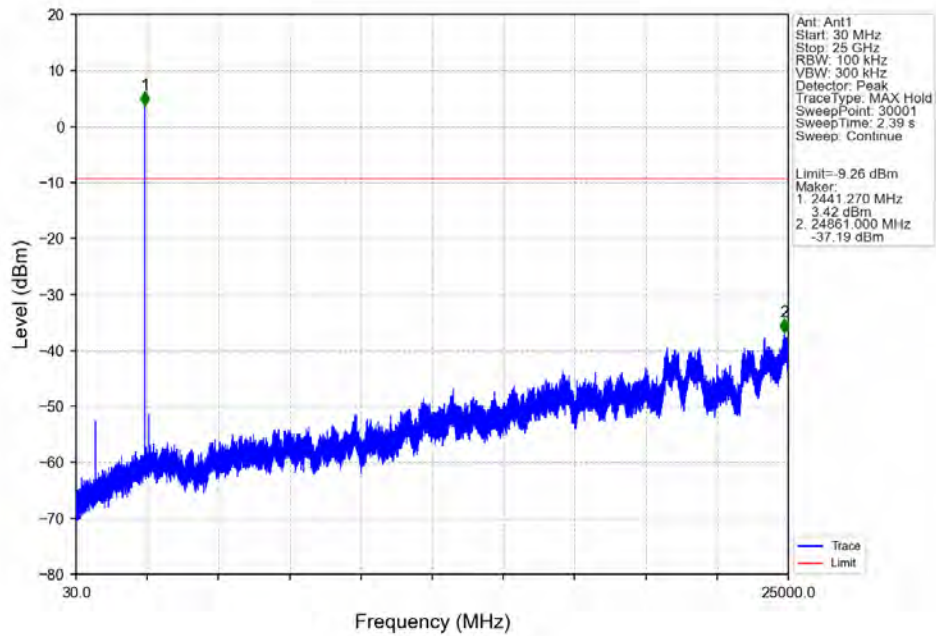
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



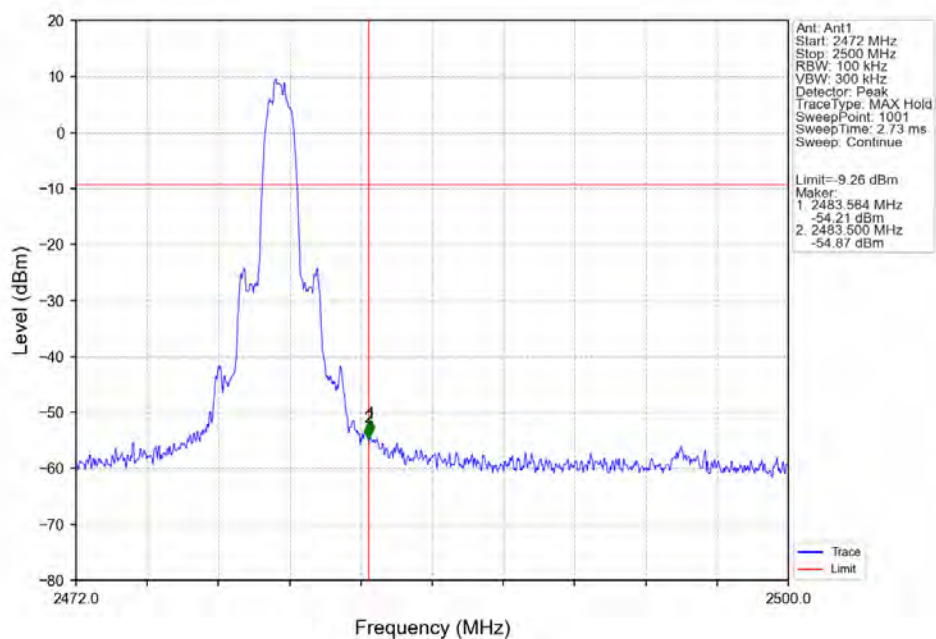
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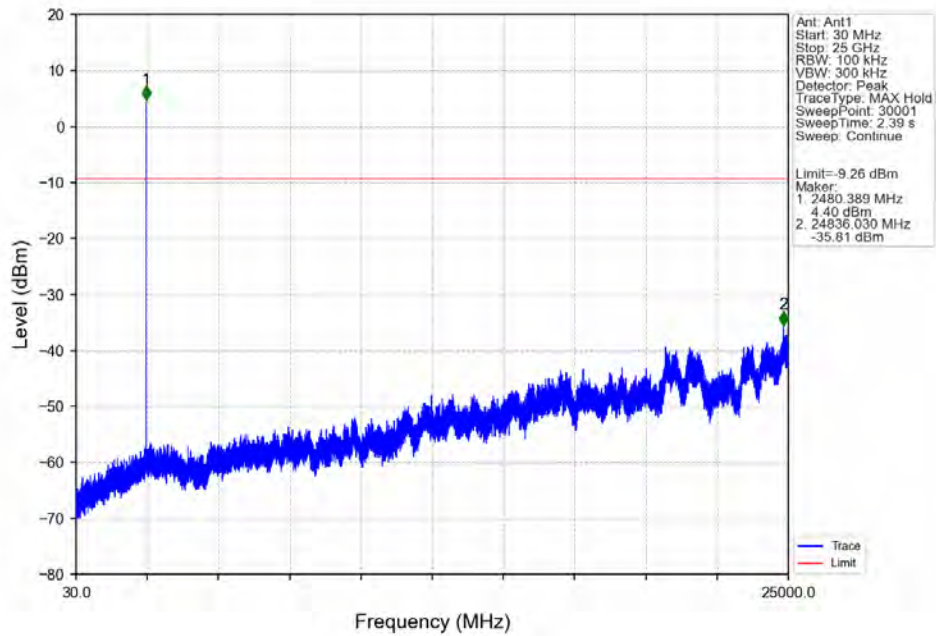
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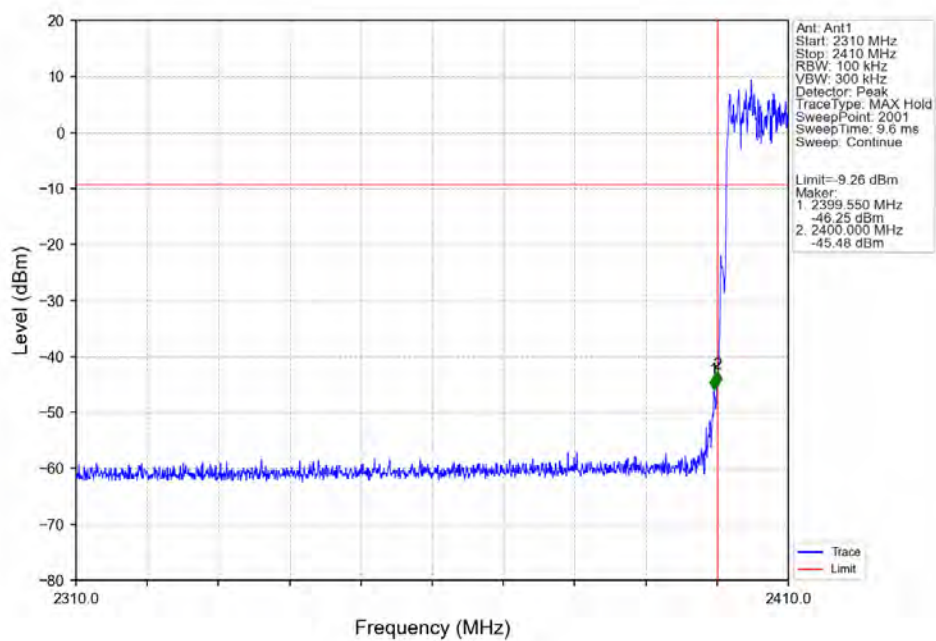
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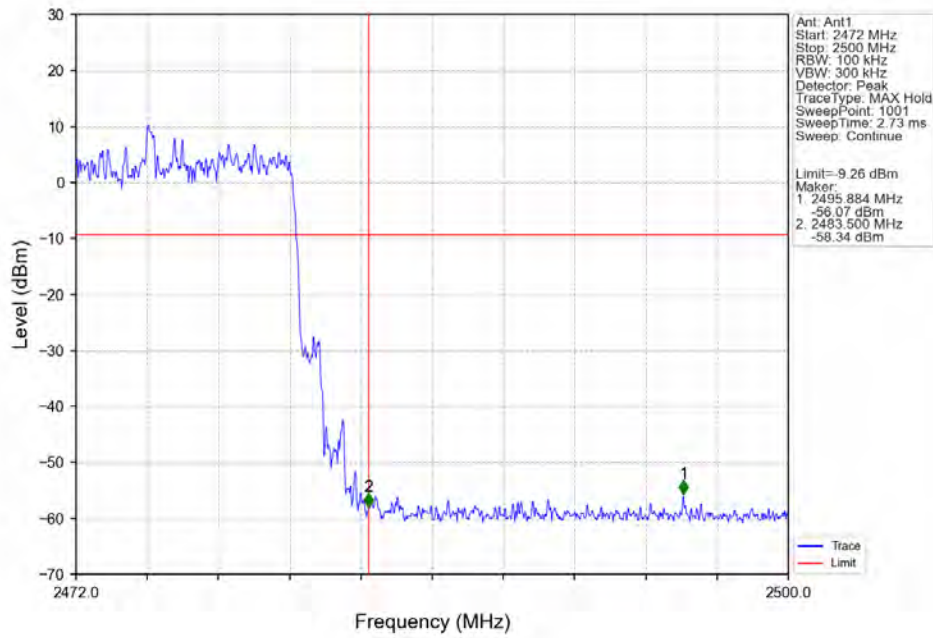
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8DPSK_3DH5_HOPP_Ant1_NTNV

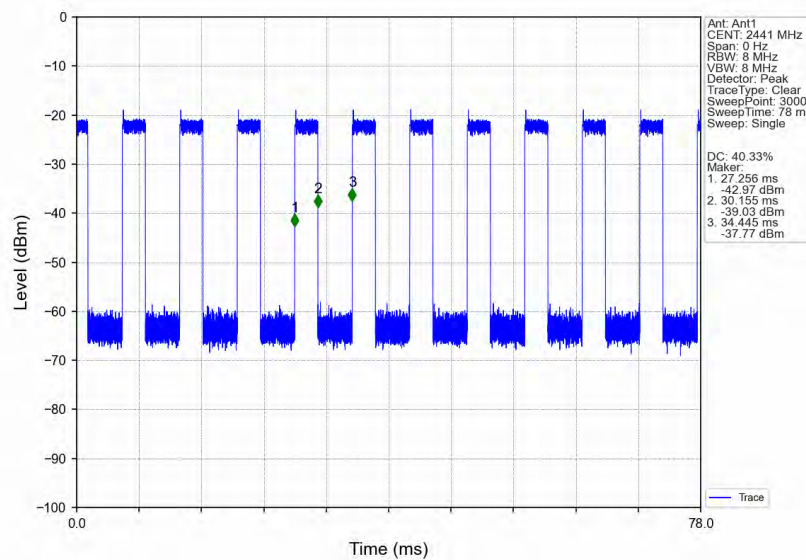


8DPSK_3DH5_HOPP_Ant1_NTNV

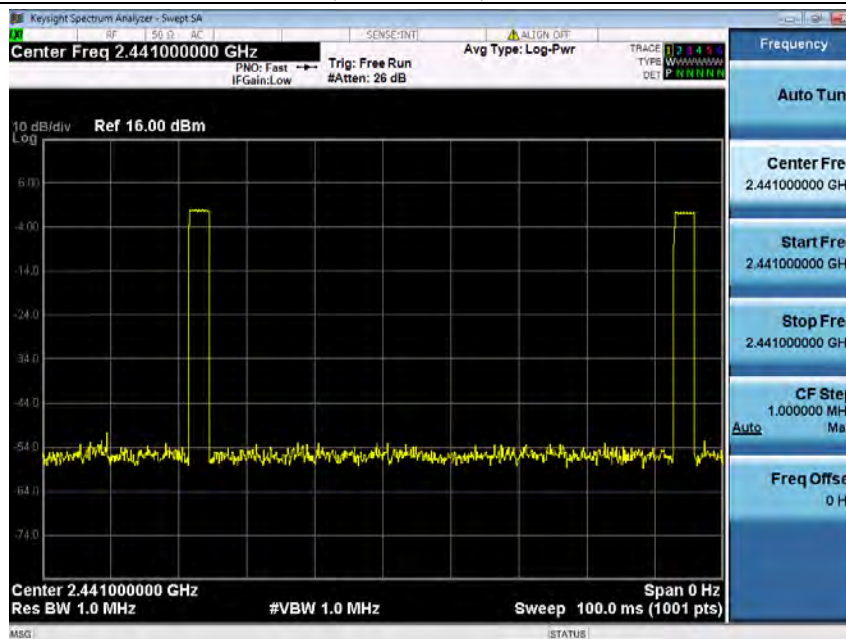


9. Duty Cycle Plots

3DH5 on time(One Pules)Plot on channel 39



3DH5 on time(Count Pulses)Plot on channel 39



10. The process and drawings of RSE-AVG

Ant1							
Test Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.986	1.032	≥ 0.688	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.034	1.326	≥ 0.884	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.296	≥ 0.864	Pass

Note:

Channel separation correction

DH5: Channel Separation < 1MHz, Channel separation correction=1/0.986=1.014

2DH5: Channel Separation $\geq$ 1MHz, Channel separation correction=1

3DH5: Channel Separation $\geq$ 1MHz, Channel separation correction=1

Overlapping channel correction

DH5: Overlapping channel correction = 1

2DH5: Overlapping channel correction = 1

3DH5: Overlapping channel correction = 1

Test mode	Dwell time per 100 ms	Channel separation correction	Overlapping channel correction	Maximum dwell time
DH5	$2 \times 2.899 = 5.798$	1.014	1	11.677
2DH5	$2 \times 2.899 = 5.798$	1	1	11.596
3DH5	$2 \times 2.899 = 5.798$	1	1	11.596

Note: Maximum dwell time per 1MHz= Dwell time per 100 ms per Channel*(Channel separation correction+ Overlapping channel correction)

Test Mode	Factor
DH5	-18.65
2DH5	-18.71
3DH5	-18.71

Factor= $20 \times \log(\text{Maximum dwell time in 100 ms}/100)$

- End of the Report -