

**SGS-CSTC Standards Technical Services Co., Ltd.**
Shenzhen BranchReport No.: SZCR240100035202
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TEST REPORT

Application No.: SZCR2401000352WM
Applicant: Xiaomi Communications Co., Ltd.
Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China
Manufacturer: Xiaomi Communications Co., Ltd.
Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China
EUT Description: Mobile Phone
Model No.: 24049RN28L
Trade Mark: Redmi
FCC ID: 2AFZZN28L
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2024/03/01
Date of Test: 2024/03/06 to 2024/03/18
Date of Issue: 2024/03/22

Test Result :**PASS ***

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Keny Xu
Laboratory Manager

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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024/03/22		Original

Prepared By	Jack Huang (Jack Huang) / Test Engineer
Checked By	Flora Wang (Flora Wang) / Reviewer



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 (2013) Section 6.2	Clause 4.3	PASS
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10 (2013) Section 11.9.1.3	Clause 4.4	PASS
20dB Emission Bandwidth & 99% Occupied Bandwidth	15.247 (a)(1)	ANSI C63.10 (2013) Section 6.9.2/6.9.3	Clause 4.5	For Report Purpose
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.2	Clause 4.6	PASS
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.3	Clause 4.7	PASS
Dwell Time	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.4	Clause 4.8	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 (2013) Section 7.8.7.2	Clause 4.9	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 (2013) Section 7.8.7.1	Clause 4.10	PASS
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10 (2013) Section 6.4 / 6.5 / 6.6	Clause 4.11	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10 (2013) Section 6.10.5	Clause 4.12	PASS



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3 General Information

3.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China
Post code:	518057
Test engineer:	Jinhua Wei, Xing Guo

3.3 Test Facility

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

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch has been recognized as an accredited testing laboratory.

Designation Number: CN1336.

Test Firm Registration Number: 787754



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3.4 General Description of EUT

EUT Description:	Mobile Phone	
Model No.:	24049RN28L	
Trade Mark:	Redmi	
Hardware Version:	1351N19A	
Software Version:	Xiaomi HyperOS 1.0	
Power Supply:	DC 3.84V from internal rechargeable battery which can be charged by AC/DC adapter.	
IMEI:	RF Conducted	IMEI1:867585070034121 IMEI2:867585070034139
	RSE & AC power line	IMEI1:867585070033800 IMEI2:867585070033818
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 1 MHz, where: -fc = “Operating Frequency” in MHz, -N = “Channel Number” with the range from 0 to 78.	
Bluetooth version:	Bluetooth V5.3	
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)	
Modulation Type:	GFSK, π/4DQPSK, 8DPSK	
Number of Channel:	79	
Hopping Channel Type:	Adaptive Frequency Hopping systems	
Antenna Type:	PIFA Antenna	
Antenna Gain:	-0.8dBi(Ant7)	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	2000MHz ~ 3000MHz (1.1dB)	
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.		



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Operation Frequency of each channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		

Remark:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH0)	2402MHz
The Middle channel(CH39)	2441MHz
The Highest channel(CH78)	2480MHz



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3.5 Test Environment

Environment Parameter	101 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.84
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

The EUT has been tested as an independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)
15.203 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.	
The antenna is PIFA Antenna and no consideration of replacement. The best case gain of the antenna is -0.8dBi(Ant7)*. <i>*Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i> <i>Remark:</i> <i>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i>	



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4.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

4.2.1 Test Requirement:

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

4.2.2 Conclusion

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudo randomly 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 pseudo random 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.

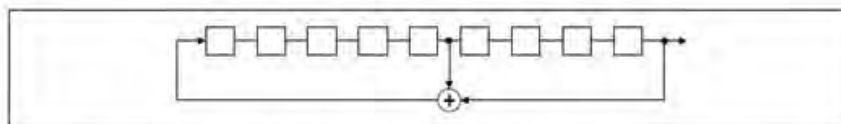
> Number of shift register stages: 9

> Length of pseudo-random sequence: $2^9 - 1 = 511$ bits

> Longest sequence of zeros: 8 (non-inverted signal)

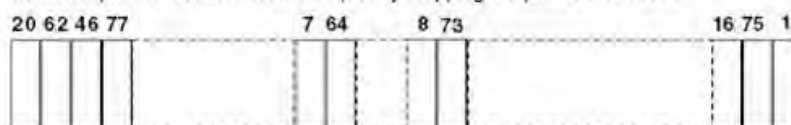
Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



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.



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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 RF 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.



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4.3 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.		



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Test Setup:	
Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type at the lowest, middle, high channel. Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation at the lowest channel is the worst case. Charge + Transmitting mode Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass



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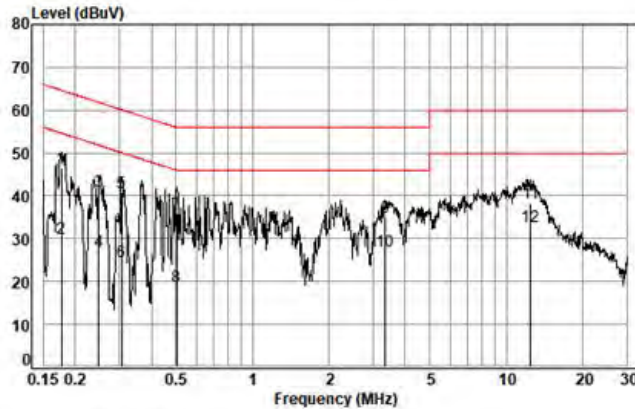
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Phase: Line



Site : Shielding Room
Condition: Line

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1768	0.02	9.91	36.53	46.46	64.64	-18.18	QP
2	0.1768	0.02	9.91	20.28	30.21	54.64	-24.43	Average
3	0.2481	0.03	9.97	31.13	41.13	61.82	-20.69	QP
4	0.2481	0.03	9.97	17.05	27.05	51.82	-24.77	Average
5	0.3051	0.03	10.01	30.71	40.75	60.10	-19.35	QP
6	0.3051	0.03	10.01	14.57	24.61	50.10	-25.49	Average
7	0.5020	0.04	9.99	25.79	35.82	56.00	-20.18	QP
8	0.5020	0.04	9.99	8.95	18.98	46.00	-27.02	Average
9	3.3458	0.08	10.03	24.88	34.99	56.00	-21.01	QP
10	3.3458	0.08	10.03	17.10	27.21	46.00	-18.79	Average
11	12.4495	0.20	10.24	27.94	38.38	60.00	-21.62	QP
12 *	12.4495	0.20	10.24	22.51	32.95	50.00	-17.05	Average



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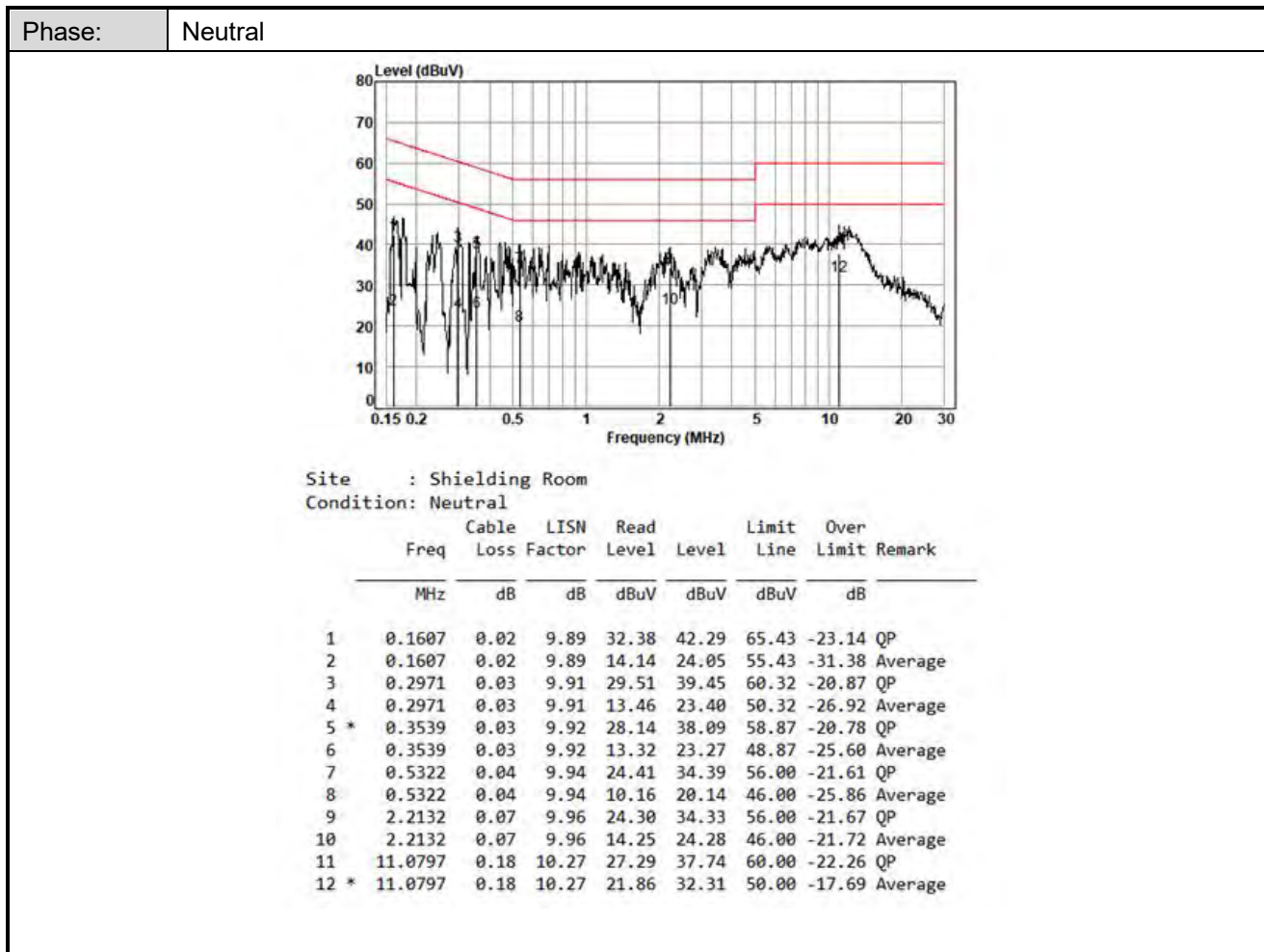
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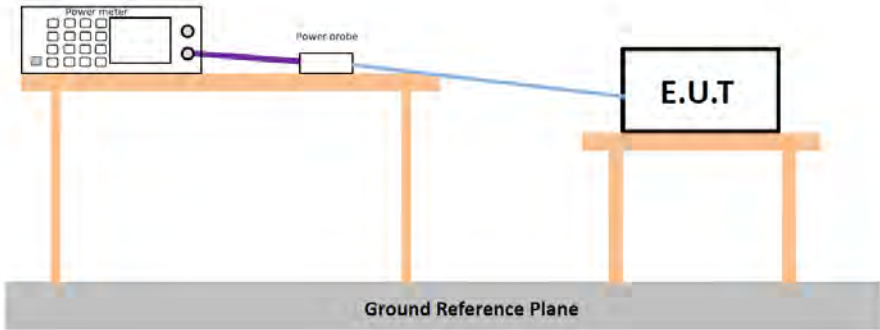


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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)&15.247 (b)(1)
Test Method:	ANSI C63.10:2013 Section 11.9.1.3
Test Setup:	 * Test with power meter (Detector function: Peak)
Test Instruments:	Refer to section 6 for details
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4$ DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Limit:	0.125 watts
Test Results:	Pass
The detailed test data see: Appendix	



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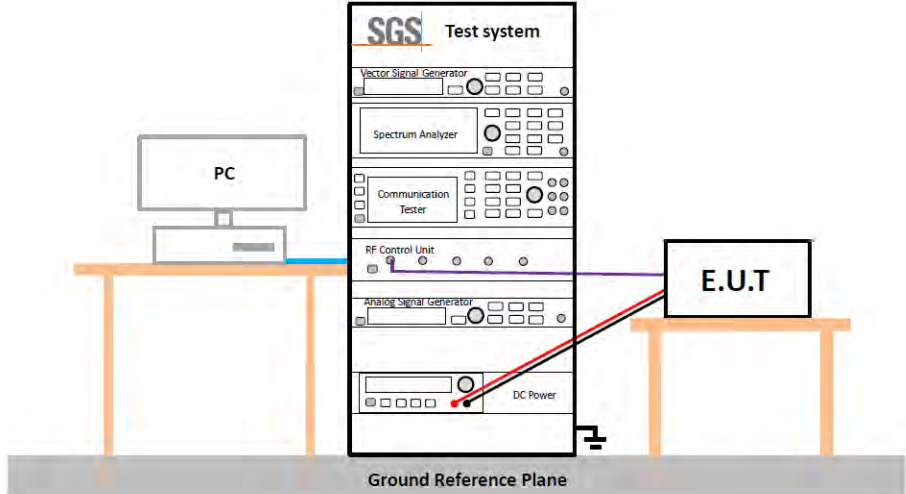
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4.5 20dB Emission Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013 Section 6.9.2 and 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4$ DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Limit:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: Appendix	



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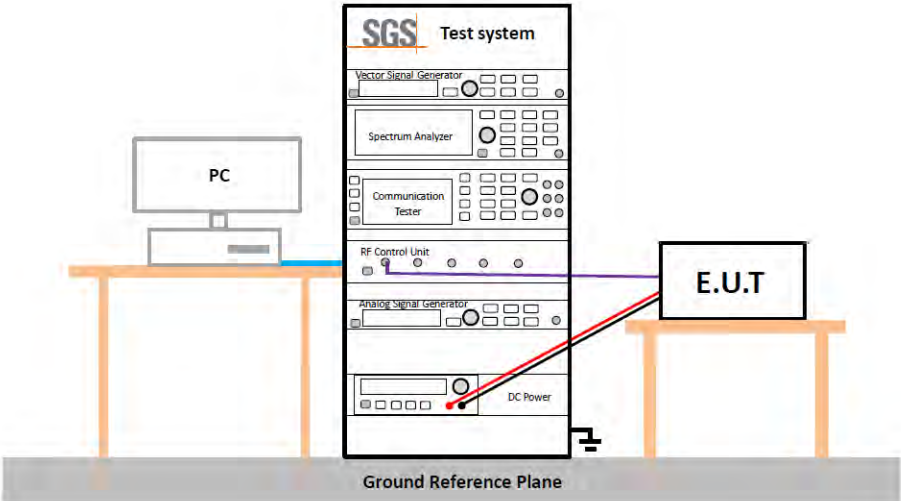
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4.6 Carrier Frequencies Separation

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013 Section 7.8.2
Test Setup:	
Test Instruments:	Refer to section 6 for details
Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4$ DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Limit:	2/3 of the 20dB bandwidth Remark: the transmission power is less than 0.125W.
Test Results:	Pass
The detailed test data see: Appendix	



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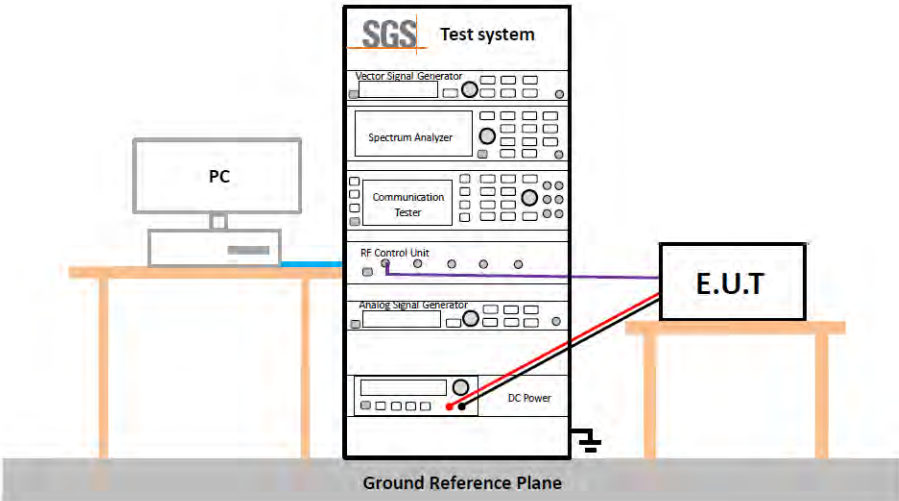
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4.7 Hopping Channel Number

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013 Section 7.8.3
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Hopping transmitting with all kind of modulation
Limit:	At least 15 channels
Test Results:	Pass
The detailed test data see: Appendix	



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4.8 Dwell Time

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013 Section 7.8.4
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.
Limit:	0.4 Second
Test Results:	Pass
The detailed test data see: Appendix	



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4.9 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 Section 7.8.7.2
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type.
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4$ DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test Results:	Pass
The detailed test data see: Appendix	



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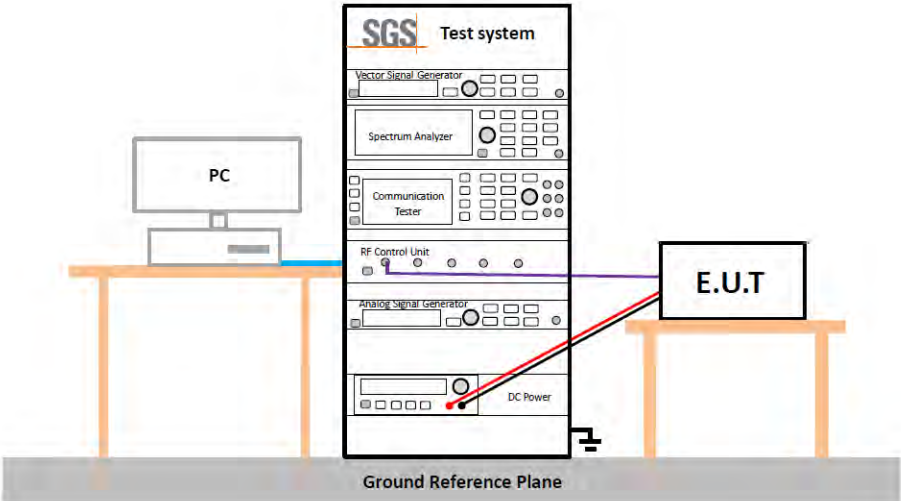
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4.10 Spurious RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 Section 7.8.7.1
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4$ DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test Results:	Pass
The detailed test data see: Appendix	



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4.11 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 6.4 / 6.5 / 6.6				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Test Frequency:	9kHz ~ 25GHz				
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

Test Setup:

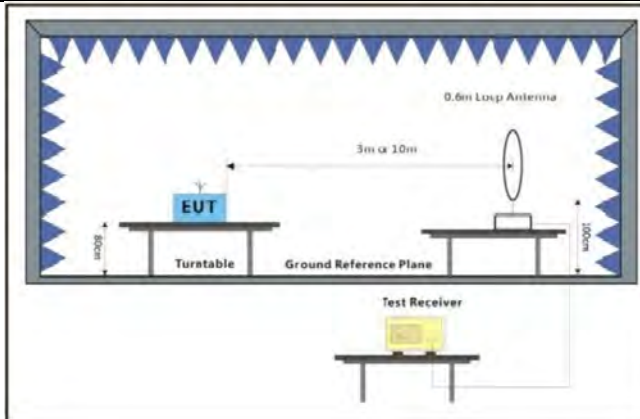


Figure 1. Below 30MHz

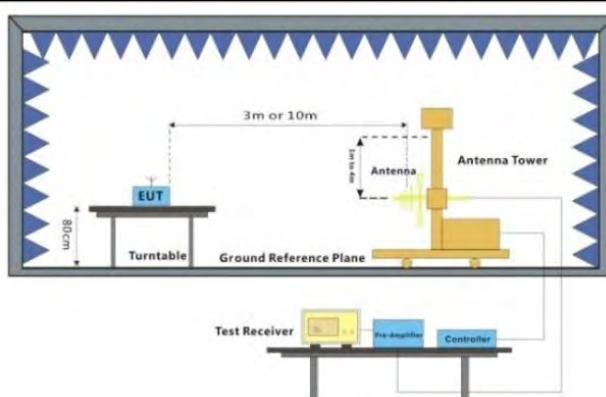


Figure 2. 30MHz to 1GHz



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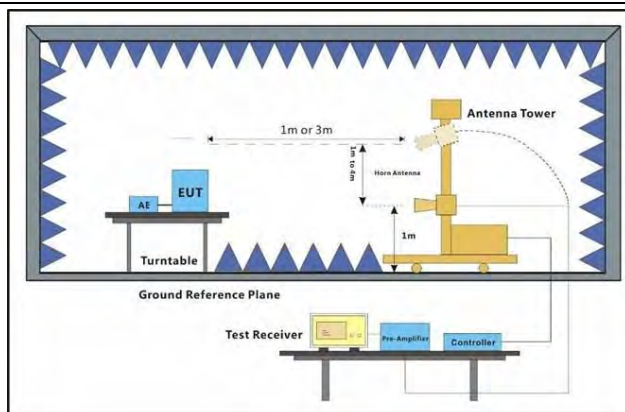


Figure 3. Above 1 GHz

Test Procedure:	- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. - For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz). - The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. - The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. - For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - Test the EUT in the lowest channel, the middle channel, the Highest channel. - The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the Z axis positioning which it is worse case. - Repeat above procedures until all frequencies measured was complete. - The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported - The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. - At a measurement distance of 1 meter the limit line was increased by $20 \times \text{LOG}(3/1) = 9.54 \text{ dB}$.
Test Configuration:	Measurements below 30MHz - RBW = 10 kHz - VBW = 30 kHz - Detector = Peak & Average & Quasi-peak - Trace mode = max hold



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	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq$ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz Use duty cycle correction factor method per 15.35(c). Duty cycle = On time / 100 milliseconds On time = $N_1 \cdot L_1 + N_2 \cdot L_2 \dots + N_{N-1} \cdot L_{N-1} + N_N \cdot L_N$ Where N_1 is number of type 1 pulse, L_1 is length of type 1 pulses, etc. Average Value = Peak Value + $20 \cdot \log(\text{Duty cycle})$.
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Charge + Transmitting mode For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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4.12 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 6.10.5		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:

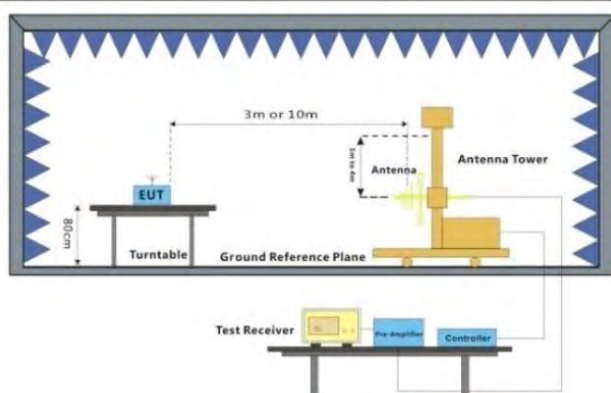


Figure 1. 30MHz to 1GHz

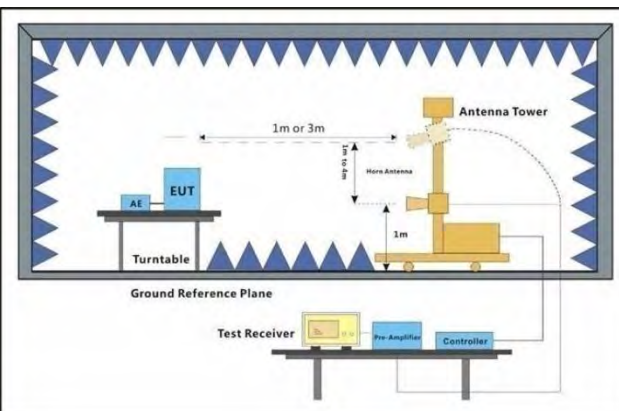


Figure 2. Above 1 GHz

Test Procedure:

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



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	g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the Z axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq$ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz Use duty cycle correction factor method per 15.35(c). Duty cycle = On time / 100 milliseconds On time = $N_1 * L_1 + N_2 * L_2 \dots + N_{N-1} * L_{N-1} + N_N * L_N$ Where N_1 is number of type 1 pulse, L_1 is length of type 1 pulses, etc. Average Value = Peak Value + 20*log(Duty cycle).
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Charge + Transmitting mode, Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.41\text{dB}$
2	RF power density, conducted	$\pm 1.96\text{dB}$
3	Spurious emissions, conducted	$\pm 0.41\text{dB}$
4	Radio Frequency	$\pm 7.10 \times 10^{-8} \text{ GHz}$
5	Duty Cycle	$\pm 0.49\%$
6	Occupied Bandwidth	$\pm 0.2\%$
7	Conducted Emissions at Mains Terminals (150kHz-30MHz)	$\pm 3.0\text{dB}$
8	Radiated Spurious emission test(UE)	$\pm 4.8\text{dB}$ (30MHz-1GHz)
		$\pm 4.68\text{dB}$ (1GHz-6GHz)
		$\pm 4.52\text{dB}$ (6GHz-18GHz)
		$\pm 5.26\text{dB}$ (18GHz-40GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

RF Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	SZ-WRG-M-077	2023/05/25	2024/05/24
Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-012	2024/01/30	2025/01/29
DC power supply	HYELEC	HY3005B	SZ-WRG-M-044	2023/09/14	2024/09/13
INSULATION TESTER	FLUKE	1508	SZ-WRG-M-060	2023/12/22	2024/12/21
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	SZ-WRG-M-033	2024/01/30	2025/01/29
Wideband Radio Communication Tester	Anritsu	MT8821C	SZ-WRG-M-042	2023/05/25	2024/05/24
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SZ-WRG-M-017	2023/12/21	2024/12/20

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022/05/14	2025/05/13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2023/03/20	2024/03/19
Measurement Software	AUDIX	e3 V8.2014- 6-27a	N/A	NCR	NCR
Coaxial Cable	SGS	N/A	SEM024-01	2023/07/07	2024/07/06
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023/09/19	2024/09/18
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2023/03/20	2024/03/19



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Radiated spurious emissions					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
EMI TEST RECEIVER	Rohde & Schwarz	ESR	SZ-WRG-M-047	2024/01/30	2025/01/29
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2024/01/30	2025/01/29
Low Noise Amplifier 9K-3GHz*	Tonscend	TAP9K3G32	SEM005-23	2024/03/05	2025/03/04
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2024/01/30	2025/01/29
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2024/01/30	2025/01/29
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2024/01/30	2025/01/29
Active Loop Antenna 9kHz-30MHz	SCHWARZBECK	FMZB 1519B	SZ-WRG-M-053	2023/12/25	2024/12/24
TRILOG Breitband Antenne 30MHz-1GHz	SCHWARZBECK	VULB 9168	SZ-WRG-M-054	2023/12/25	2024/12/24
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023/12/21	2024/12/20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023/12/25	2024/12/24
RSE Test Software	Tonscend	JS32-RSE V4.0.0	SZ-WRG-S-058	NCR	NCR
RE Test Software	Tonscend	JS36-RSE V5.0.0.1	SZ-WRG-S-059	NCR	NCR
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022/01/05	2025/01/04
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	SZ-WRG-M-078	2023/05/25	2024/05/24
Spectrum Analyzer	Keysight	N9020A	SZ-WRG-M-002	2023/09/14	2024/09/13

Remark: NCR=No Calibration Requirement.



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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Duty Cycle

Ant7

Test Result

Ant7								
Mode	Tx Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
GFSK	SISO	2402	DH5	2.876	3.729	77.13	1.13	0.03
		2441	DH5	2.875	3.729	77.10	1.13	0.03
		2480	DH5	2.876	3.730	77.10	1.13	0.03
Pi/4DQPSK	SISO	2402	2DH5	2.878	3.731	77.14	1.13	0.03
		2441	2DH5	2.878	3.730	77.16	1.13	0.03
		2480	2DH5	2.878	3.731	77.14	1.13	0.03
8DPSK	SISO	2402	3DH5	2.891	3.743	77.24	1.12	0.00
		2441	3DH5	2.880	3.730	77.21	1.12	0.03
		2480	3DH5	2.880	3.730	77.21	1.12	0.03



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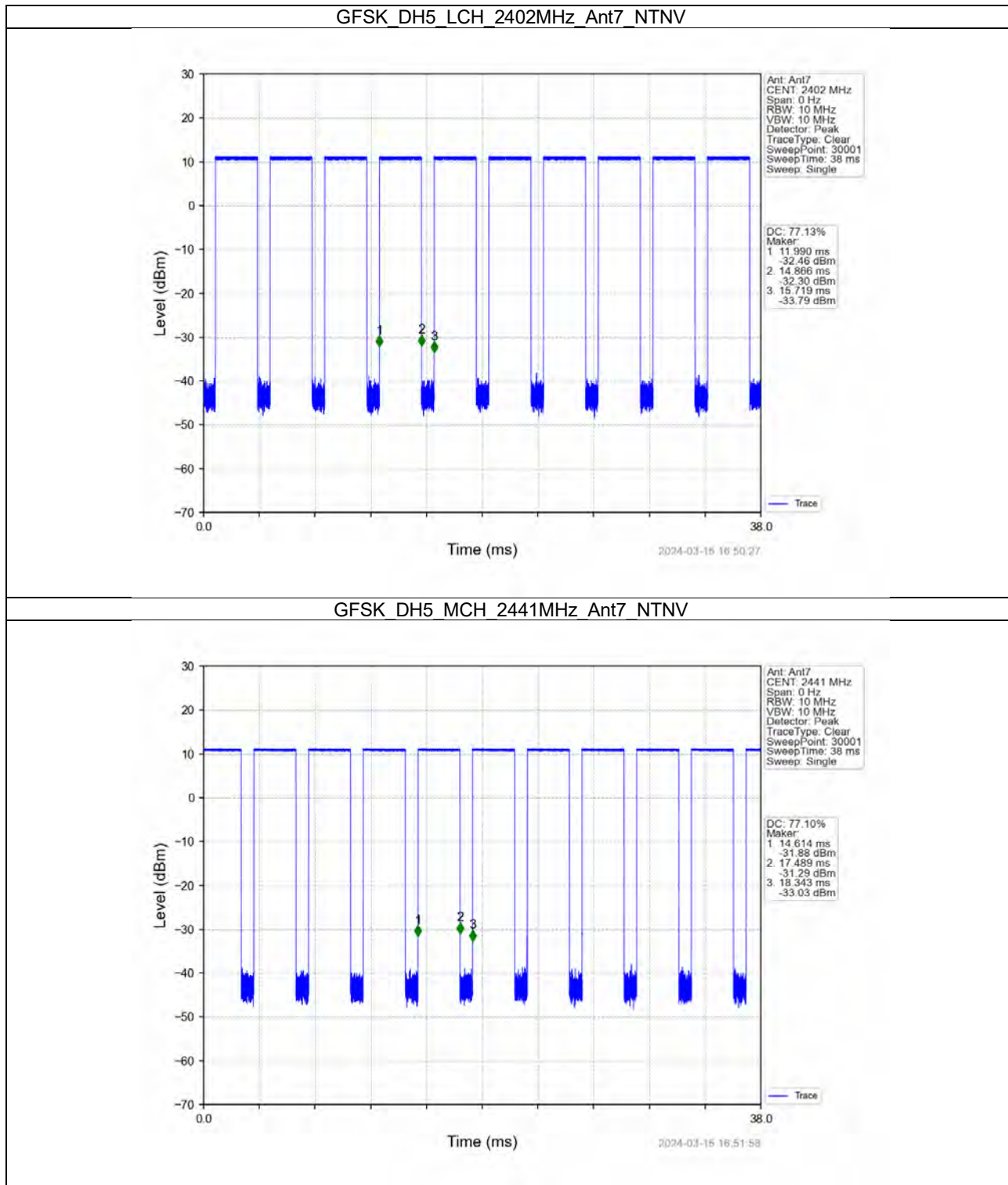
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Test Graph



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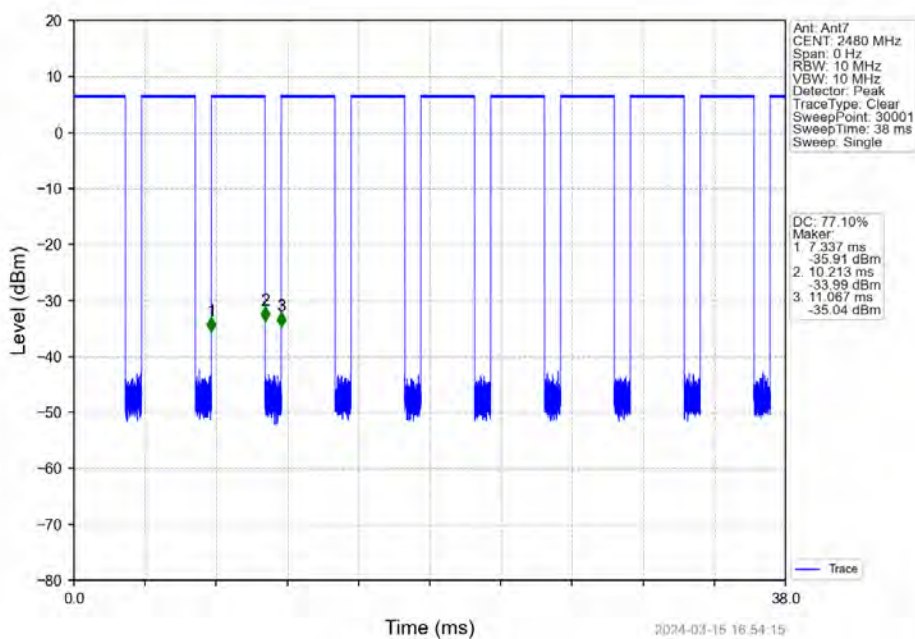


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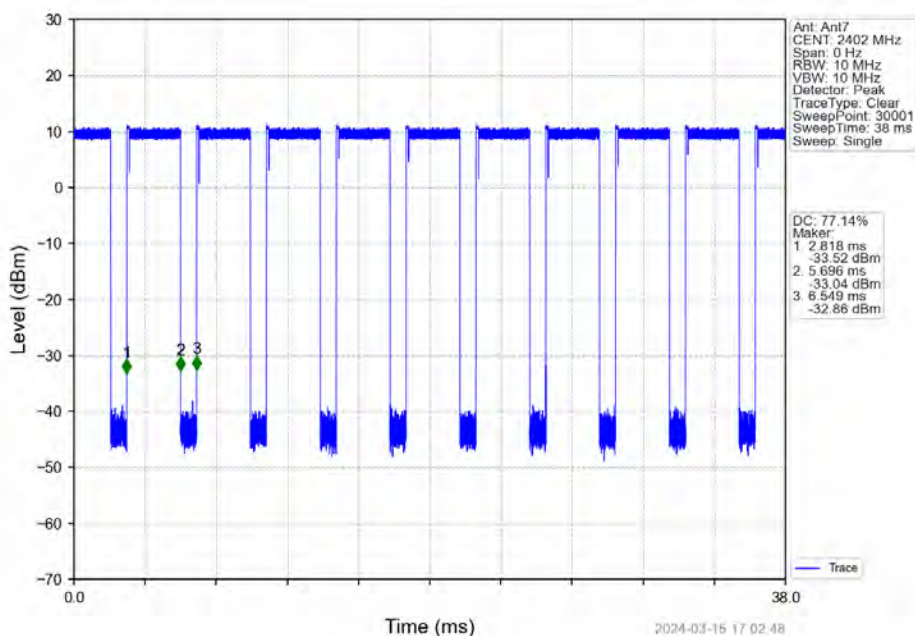
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GFSK DH5 HCH 2480MHz_Ant7_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant7_NTNV



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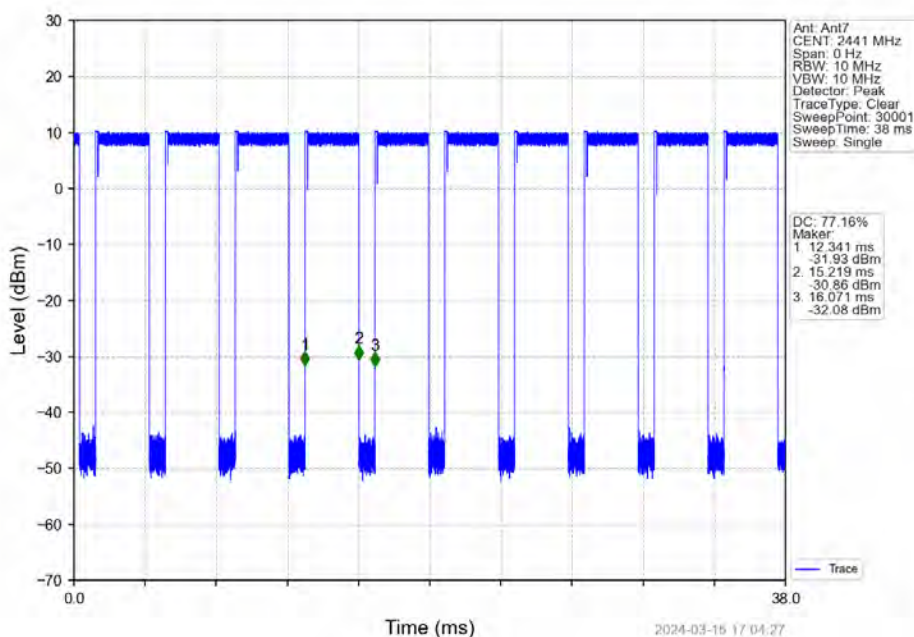


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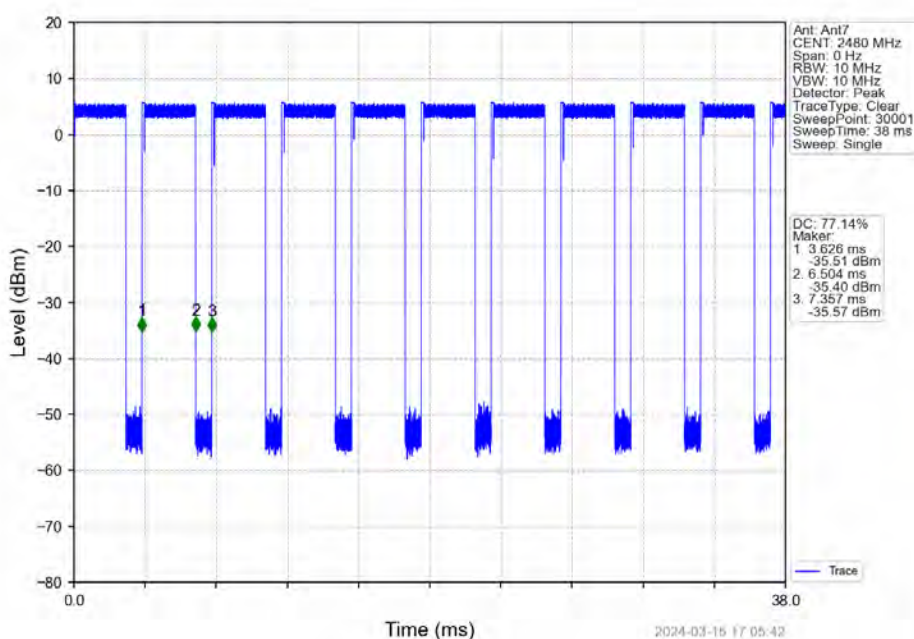
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant7_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant7_NTNV



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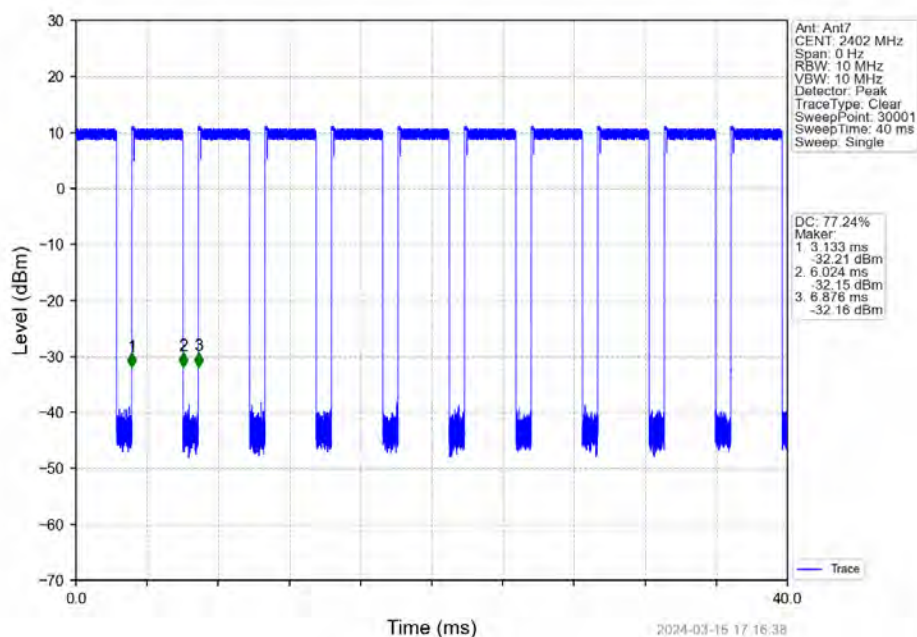


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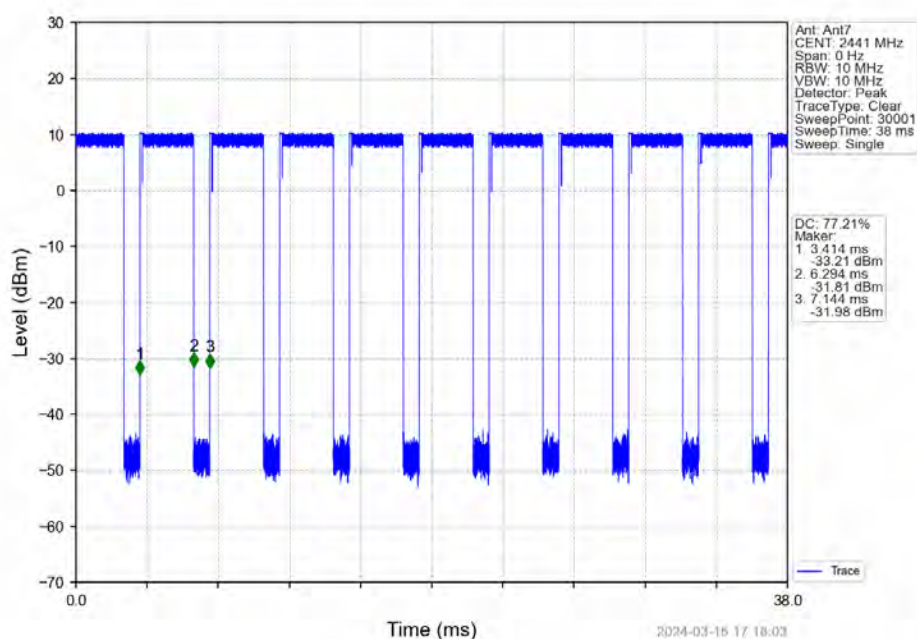
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8DPSK_3DH5_LCH_2402MHz_Ant7_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant7_NTNV



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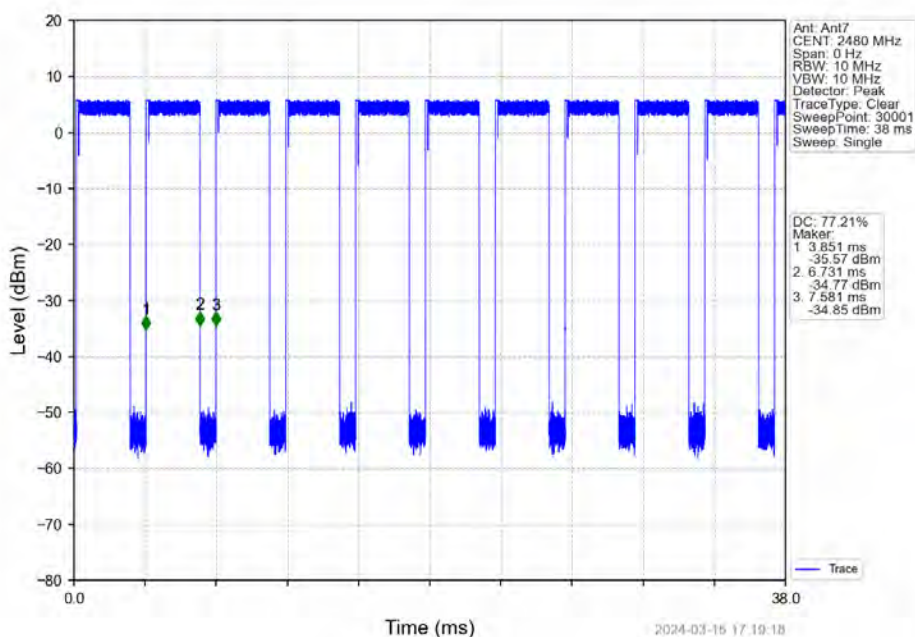


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8DPSK 3DH5_HCH_2480MHz_Ant7_NTNV



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Bandwidth

OBW

Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	7	0.766	/	Pass
		2441	DH5	7	0.763	/	Pass
		2480	DH5	7	0.756	/	Pass
PI/4DQPSK	SISO	2402	2DH5	7	1.153	/	Pass
		2441	2DH5	7	1.145	/	Pass
		2480	2DH5	7	1.139	/	Pass
8DPSK	SISO	2402	3DH5	7	1.159	/	Pass
		2441	3DH5	7	1.146	/	Pass
		2480	3DH5	7	1.141	/	Pass



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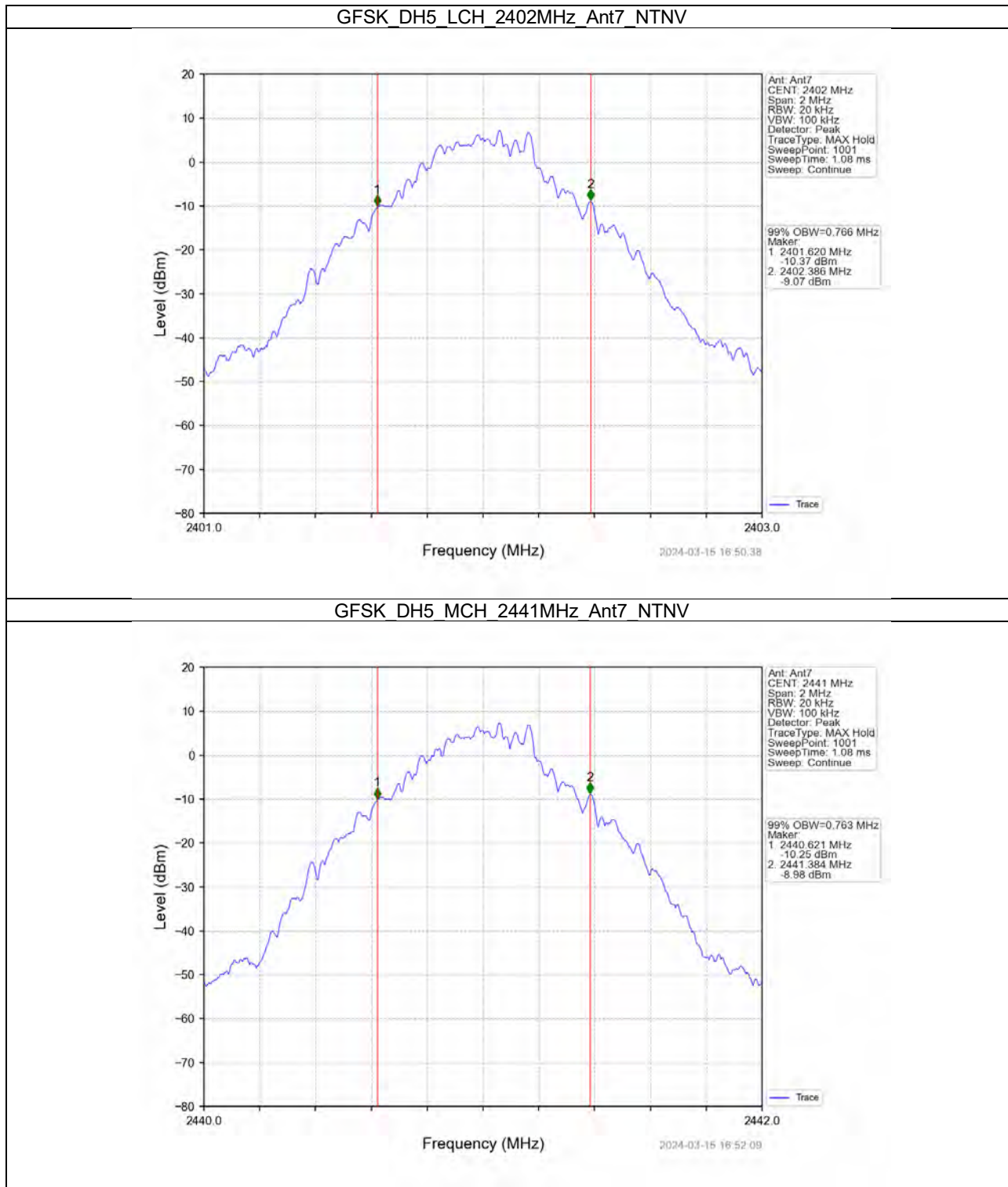
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Test Graph



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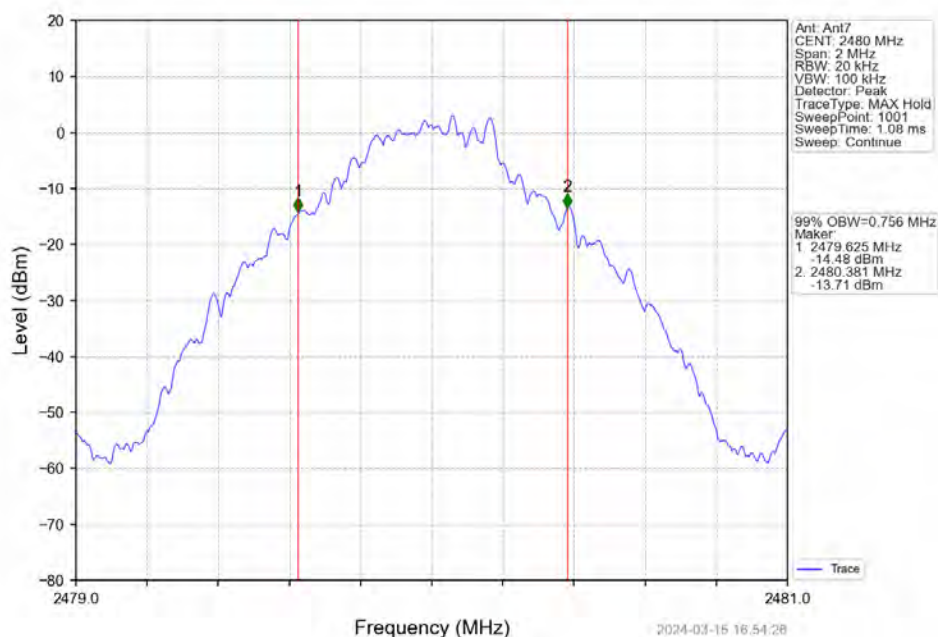


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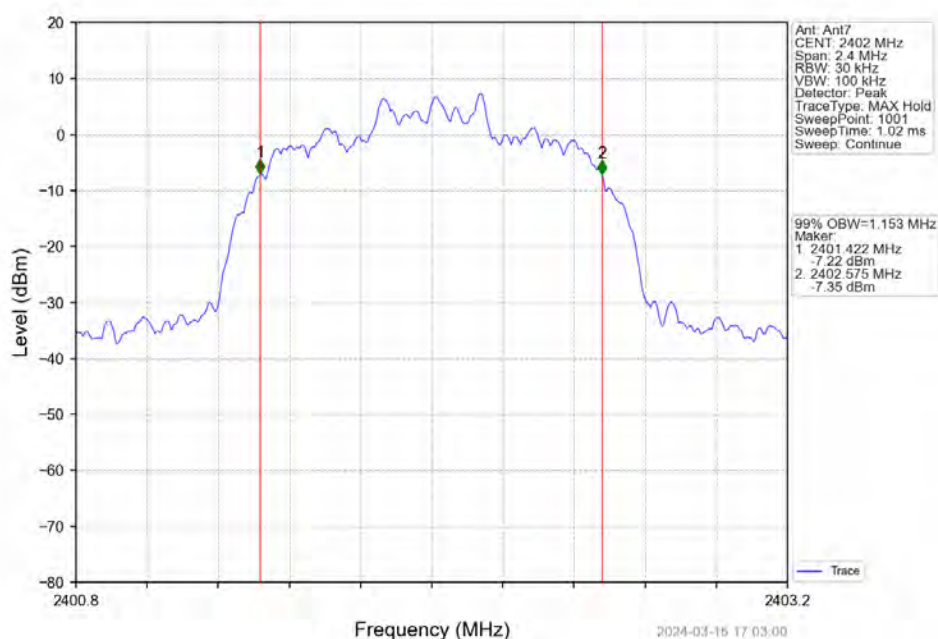
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GFSK DH5 HCH 2480MHz_Ant7_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant7_NTNV



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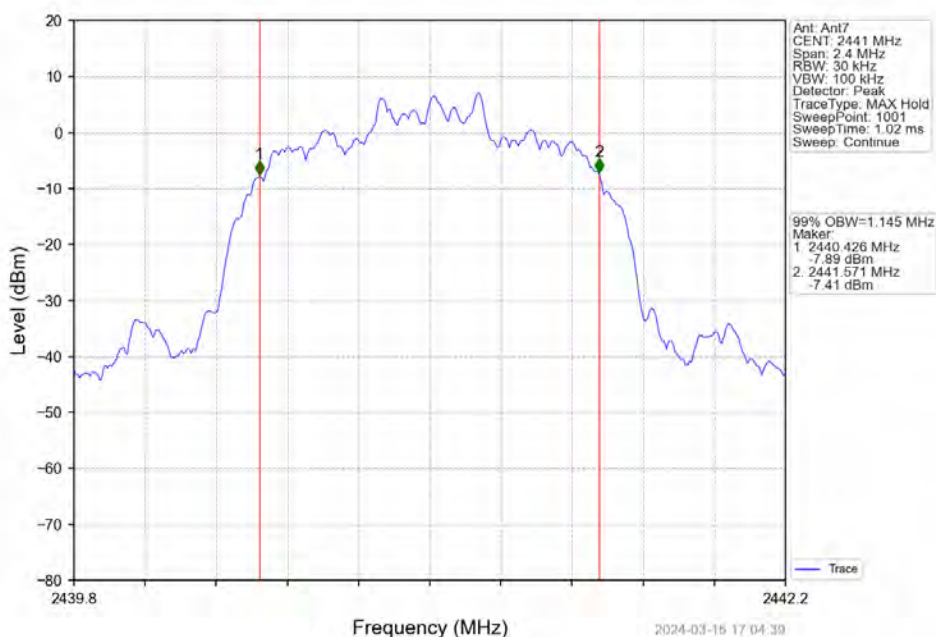
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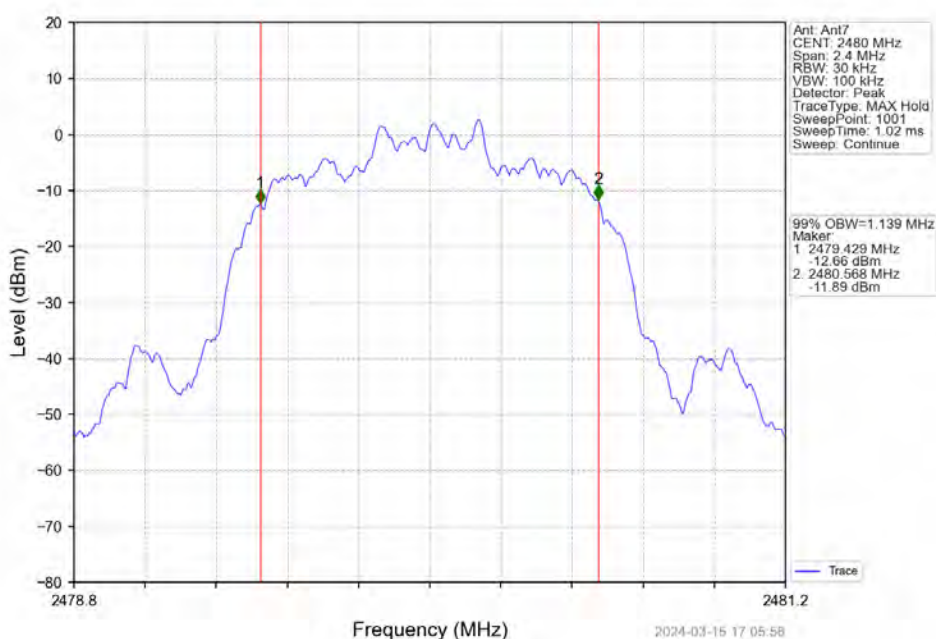
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant7_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant7_NTNV



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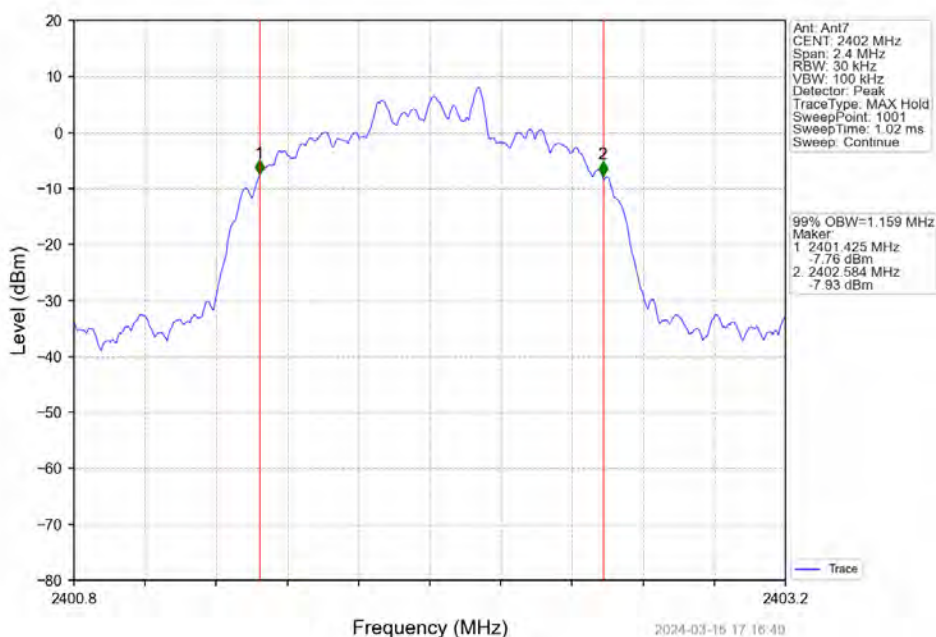


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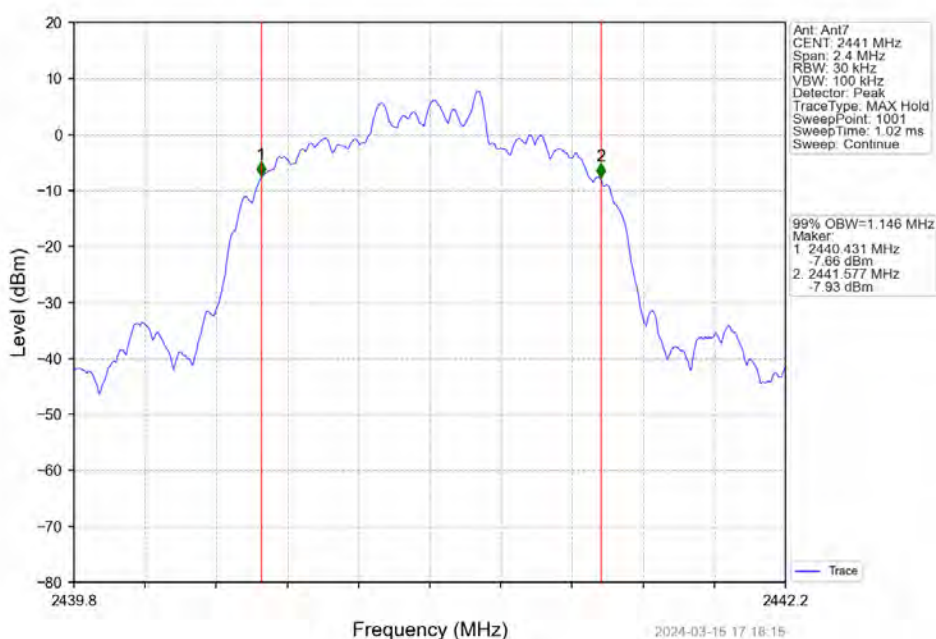
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8DPSK_3DH5_LCH_2402MHz_Ant7_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant7_NTNV



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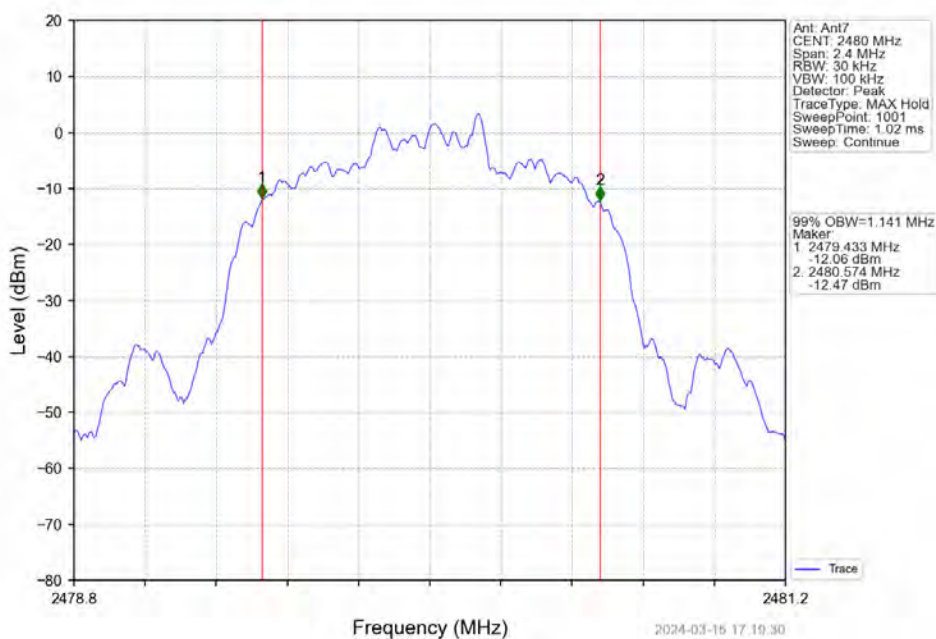


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8DPSK 3DH5 HCH 2480MHz Ant7 NTN



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20dB BW

Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	7	0.802	/	Pass
		2441	DH5	7	0.803	/	Pass
		2480	DH5	7	0.802	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	7	1.276	/	Pass
		2441	2DH5	7	1.259	/	Pass
		2480	2DH5	7	1.255	/	Pass
8DPSK	SISO	2402	3DH5	7	1.272	/	Pass
		2441	3DH5	7	1.257	/	Pass
		2480	3DH5	7	1.251	/	Pass



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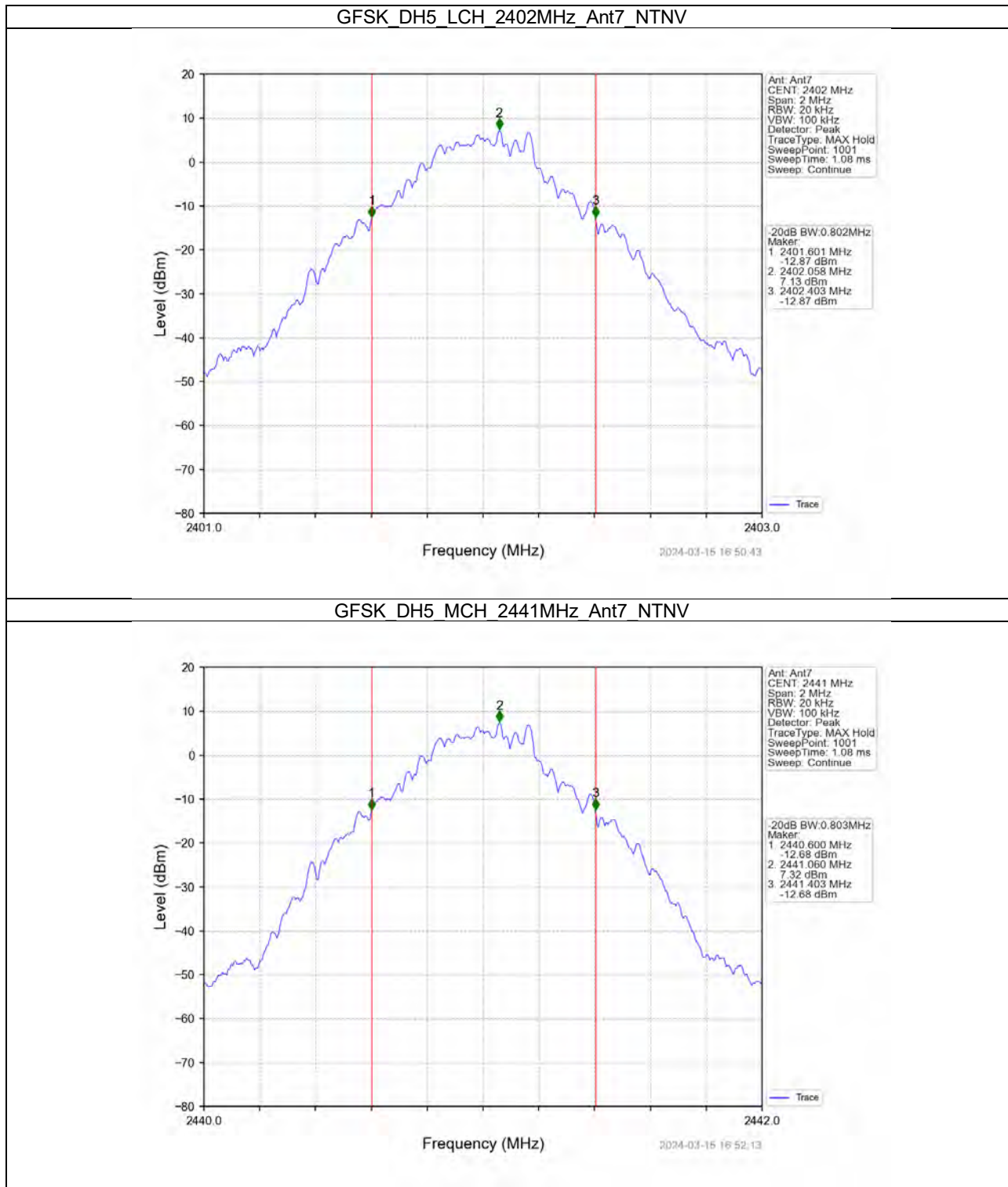
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Test Graph



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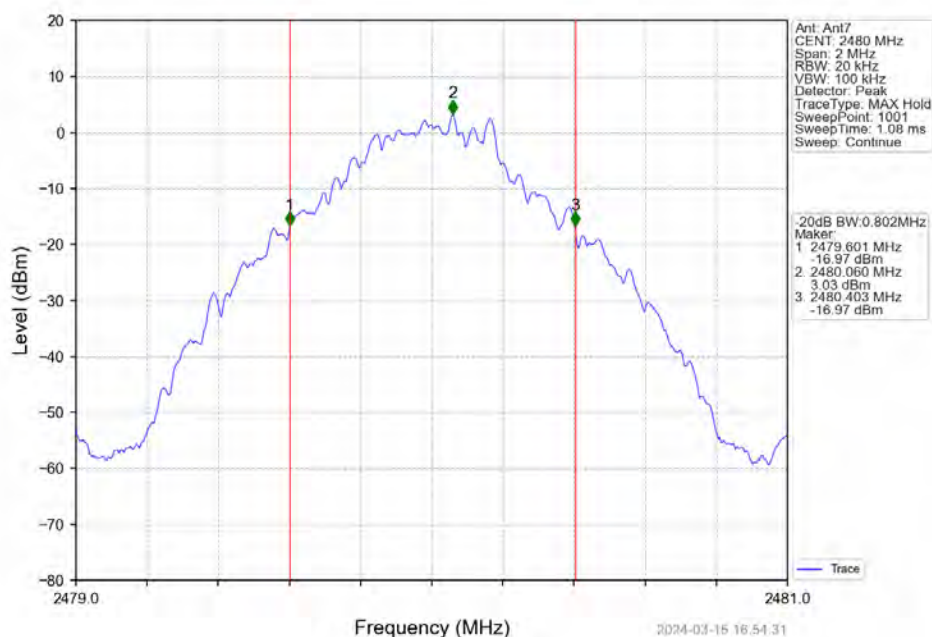


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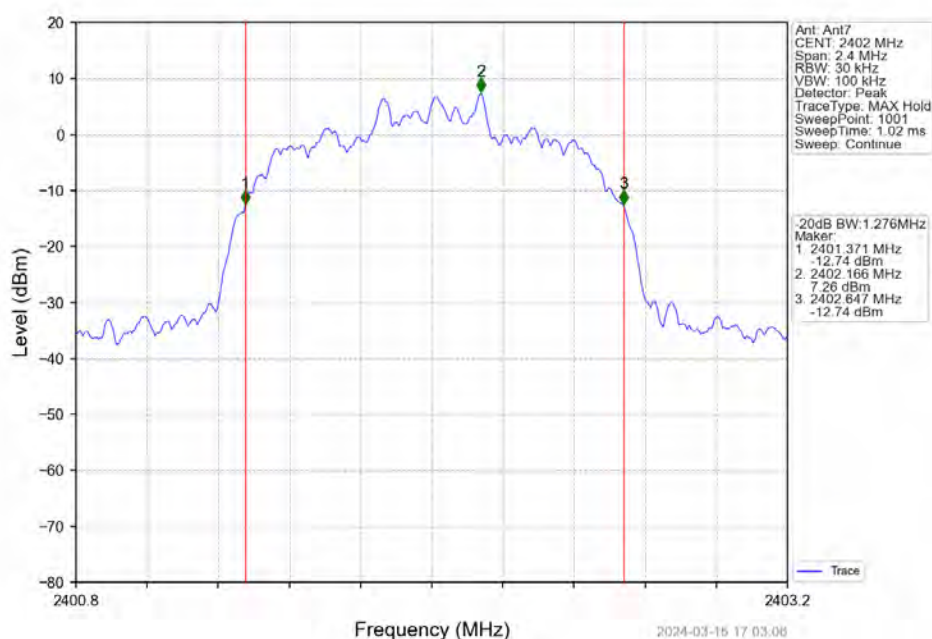
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GFSK DH5 HCH 2480MHz_Ant7_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant7_NTNV



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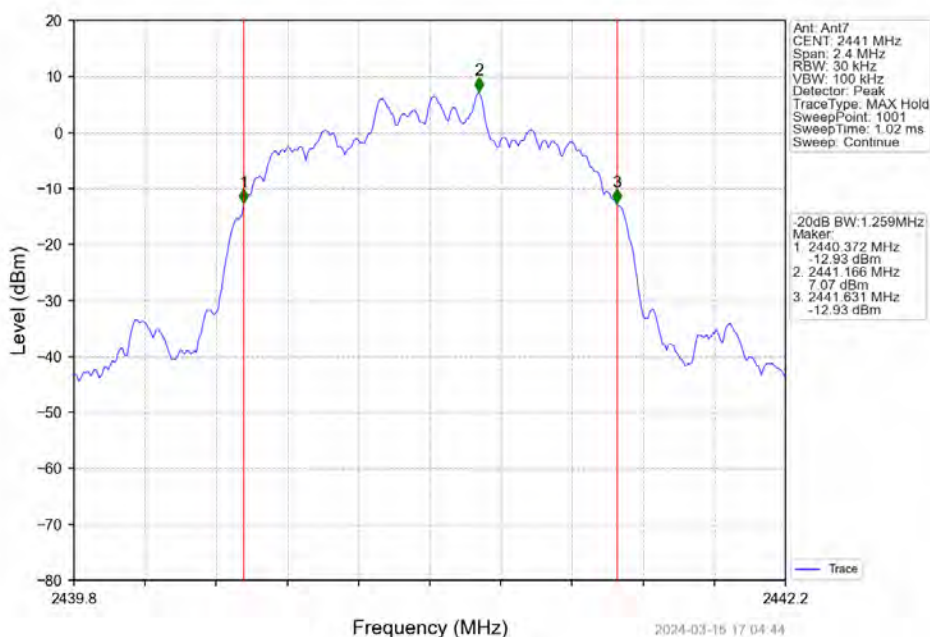


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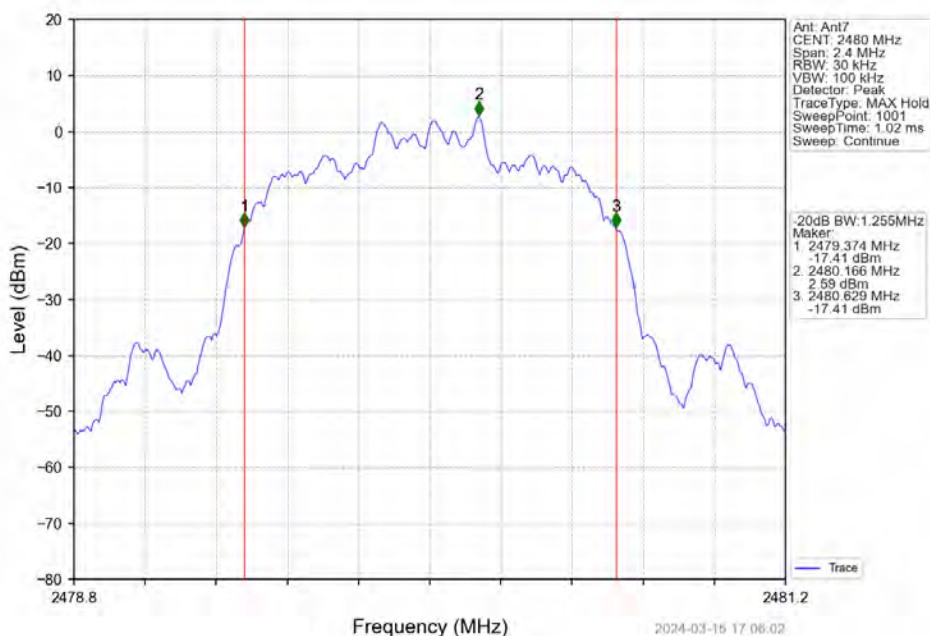
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant7_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant7_NTNV



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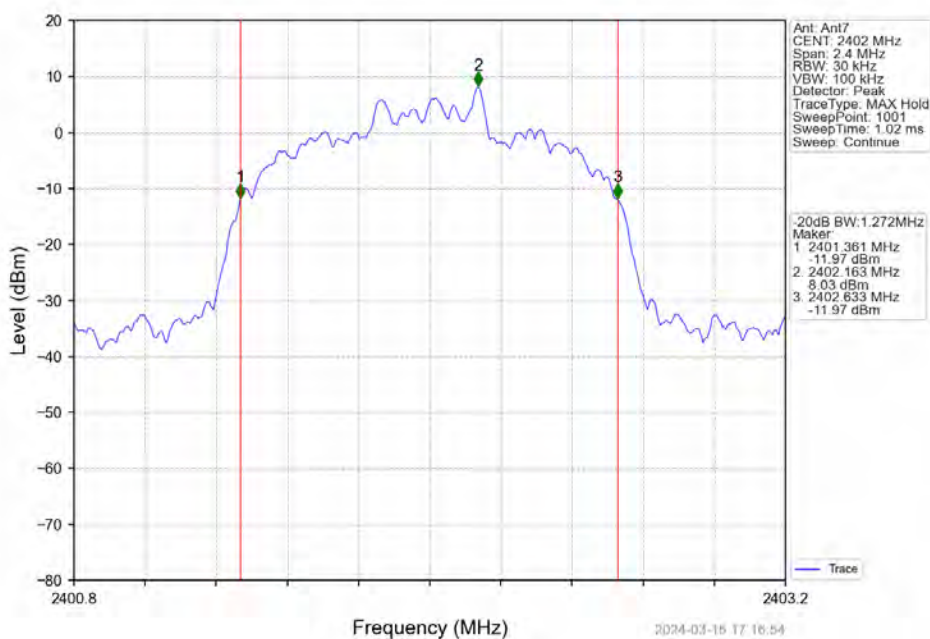


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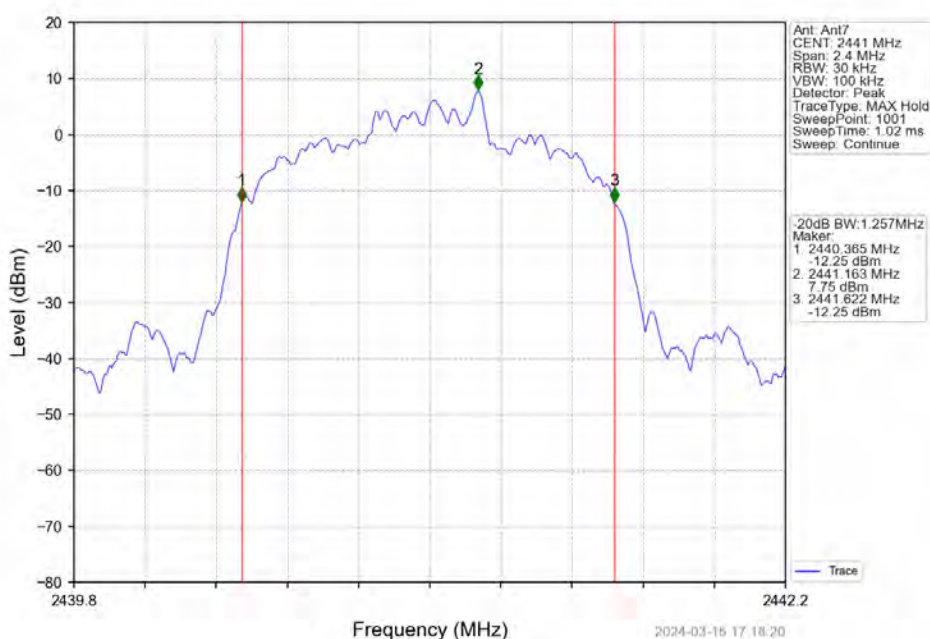
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8DPSK_3DH5_LCH_2402MHz_Ant7_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant7_NTNV



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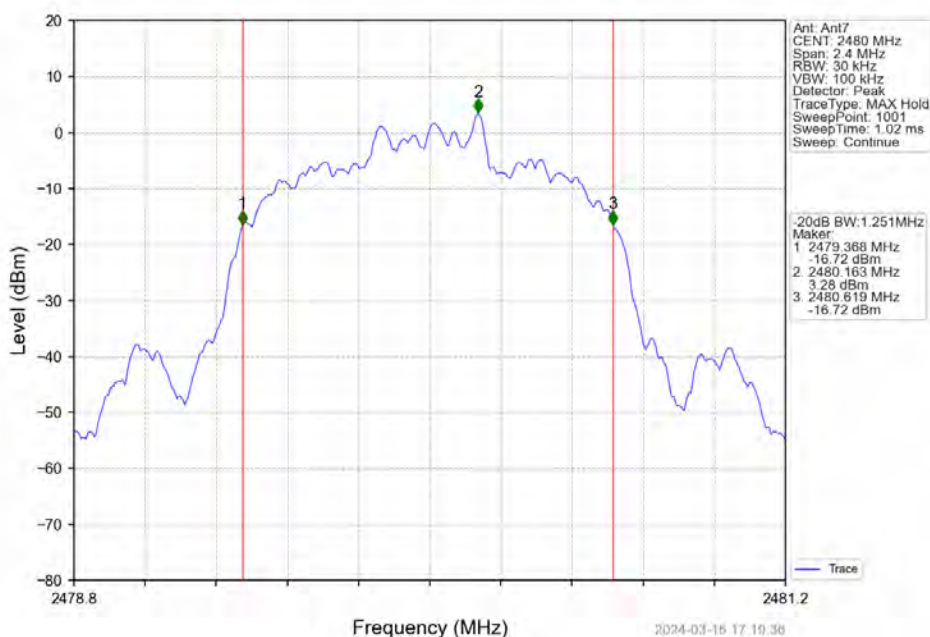


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8DPSK 3DH5_HCH_2480MHz_Ant7_NTNV



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Maximum Conducted Output Power

Power

Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT7	Limit	
GFSK	SISO	2402	DH5	10.96	<=30	Pass
		2441	DH5	10.96	<=30	Pass
		2480	DH5	6.60	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	10.83	<=20.97	Pass
		2441	2DH5	10.36	<=20.97	Pass
		2480	2DH5	5.83	<=20.97	Pass
8DPSK	SISO	2402	3DH5	10.84	<=20.97	Pass
		2441	3DH5	10.37	<=20.97	Pass
		2480	3DH5	5.85	<=20.97	Pass

Note1: Antenna Gain: Ant7: -0.80dBi;



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Carrier Frequency Separation

Ant7

Test Result

Ant7							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.018	0.803	≥ 0.803	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.003	1.276	≥ 0.851	Pass
8DPSK	SISO	HOPP	3DH5	0.996	1.272	≥ 0.848	Pass



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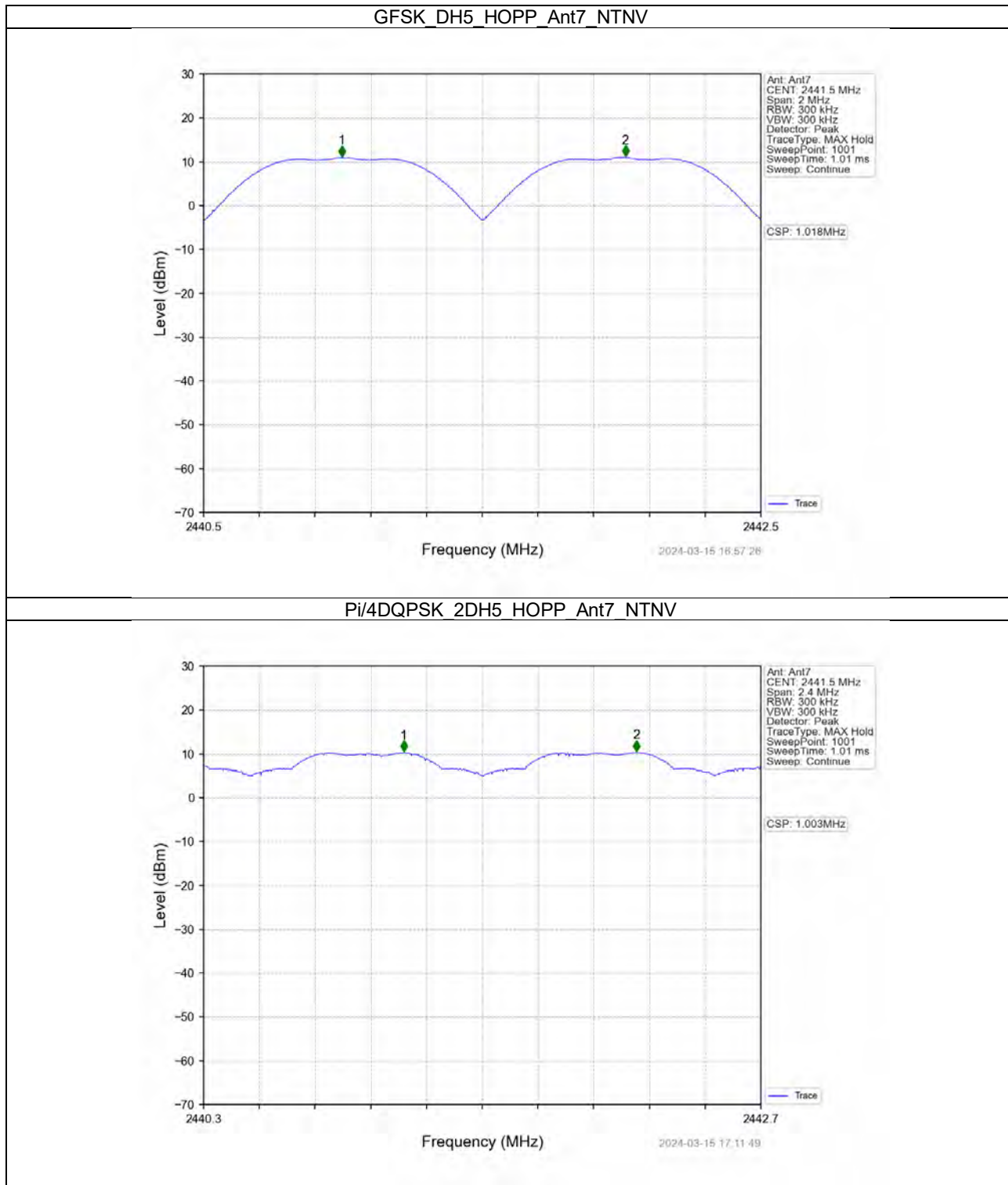
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Test Graph



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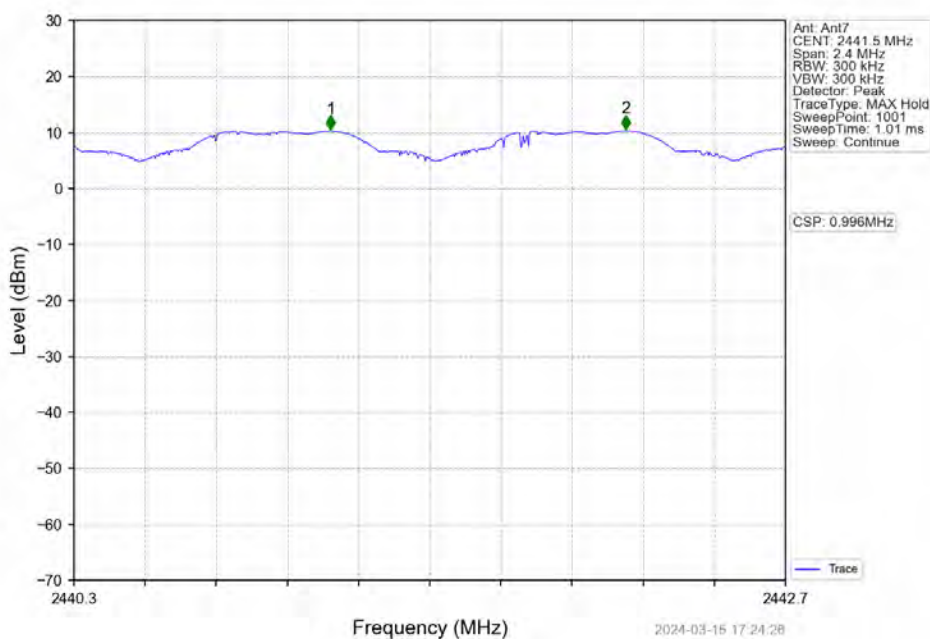


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8DPSK 3DH5 HOPP Ant7 NTN



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Number of Hopping Frequencies

HoppNum

Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT7	Limit	
GFSK	SISO	HOPP	DH5	79	≥ 15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	≥ 15	Pass
8DPSK	SISO	HOPP	3DH5	79	≥ 15	Pass



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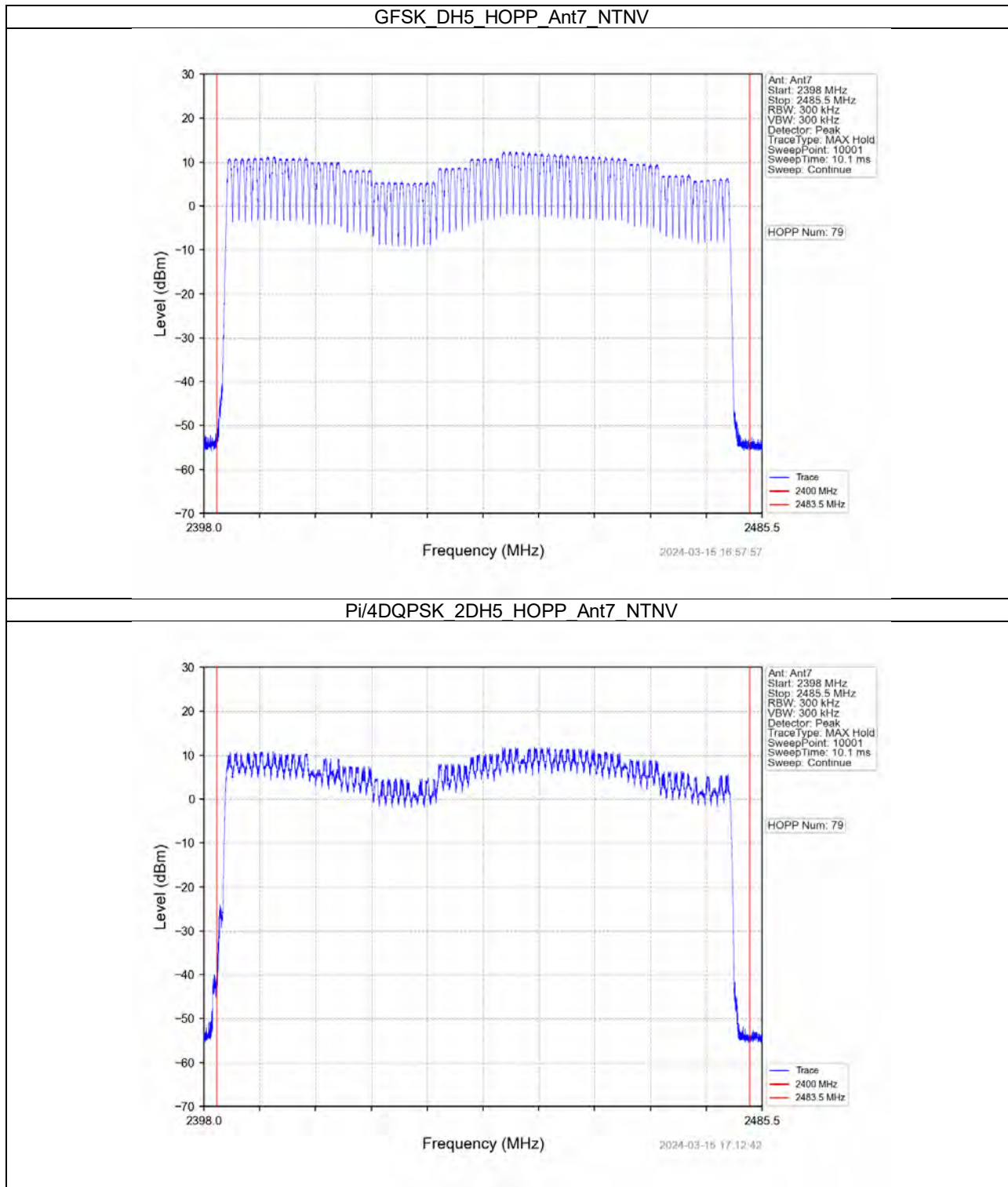
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Test Graph



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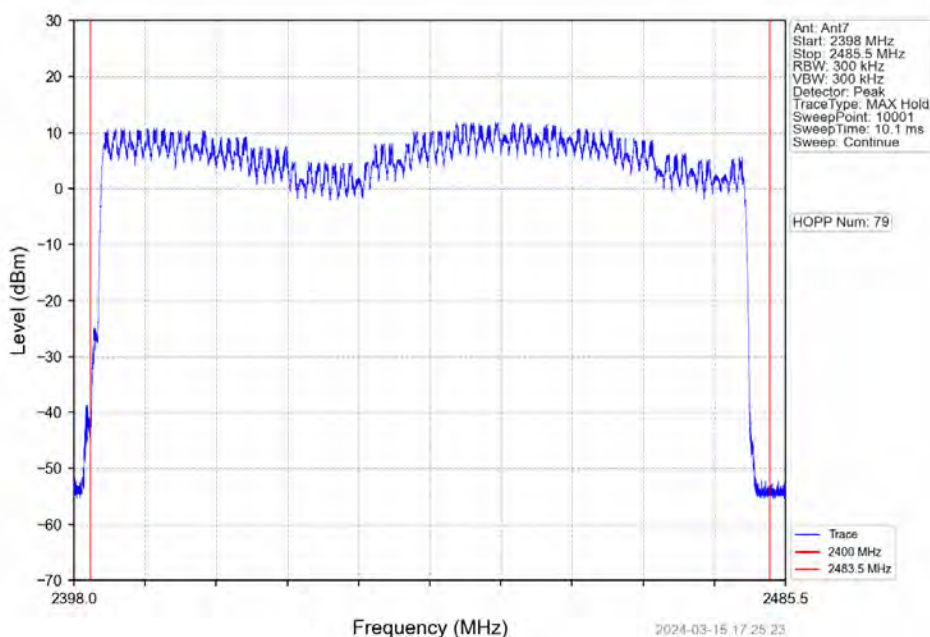


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8DPSK 3DH5 HOPP Ant7 NTN



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Time of Occupancy (Dwell Time)

Ant7

Test Result

Ant7									
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	0.382	31.600	320	122.240	<=400	Pass
			DH3	1.638	31.600	160	262.080	<=400	Pass
			DH5	2.896	31.600	112	324.352	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.390	31.600	320	124.800	<=400	Pass
			2DH3	1.640	31.600	161	264.040	<=400	Pass
			2DH5	2.896	31.600	111	321.456	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.398	31.600	320	127.360	<=400	Pass
			3DH3	1.648	31.600	160	263.680	<=400	Pass
			3DH5	2.898	31.600	102	295.596	<=400	Pass



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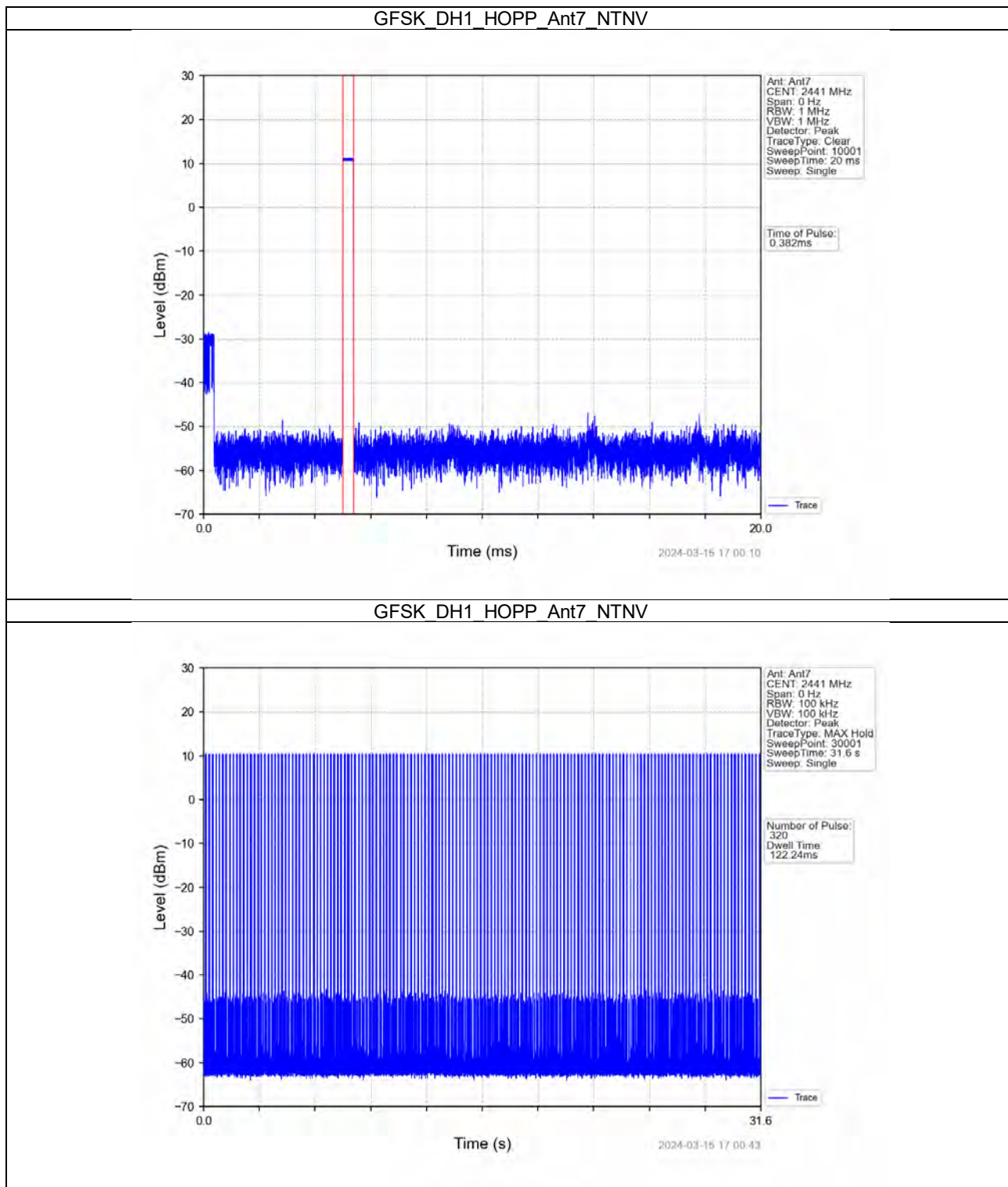
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Test Graph



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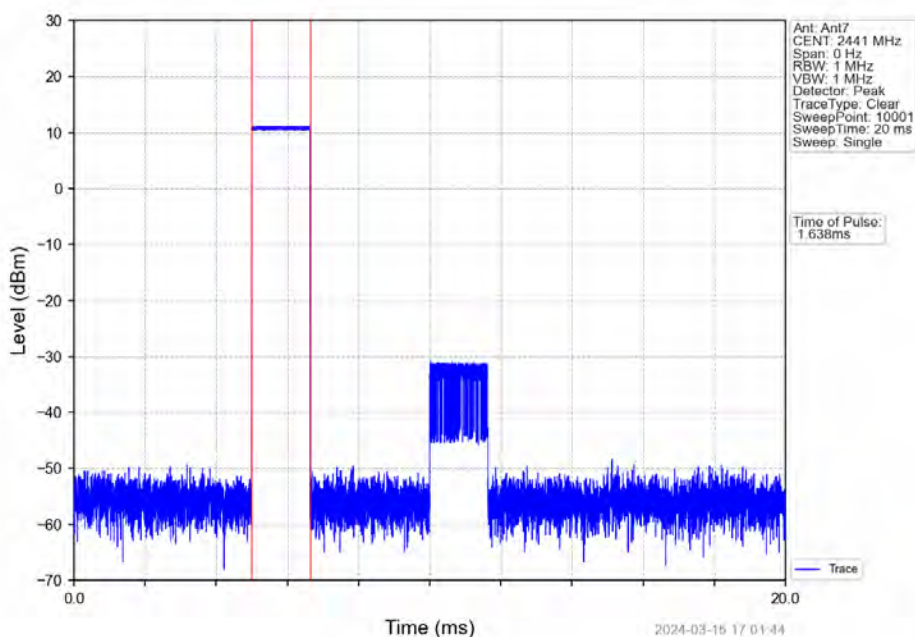


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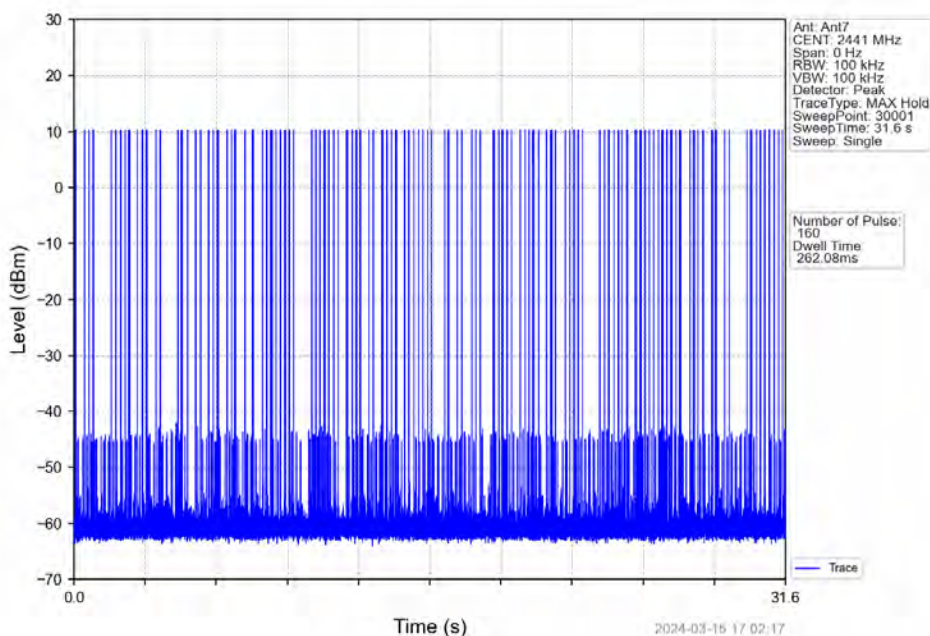
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GFSK DH3_HOPP_Ant7_NTNV



GFSK_DH3_HOPP_Ant7_NTNV



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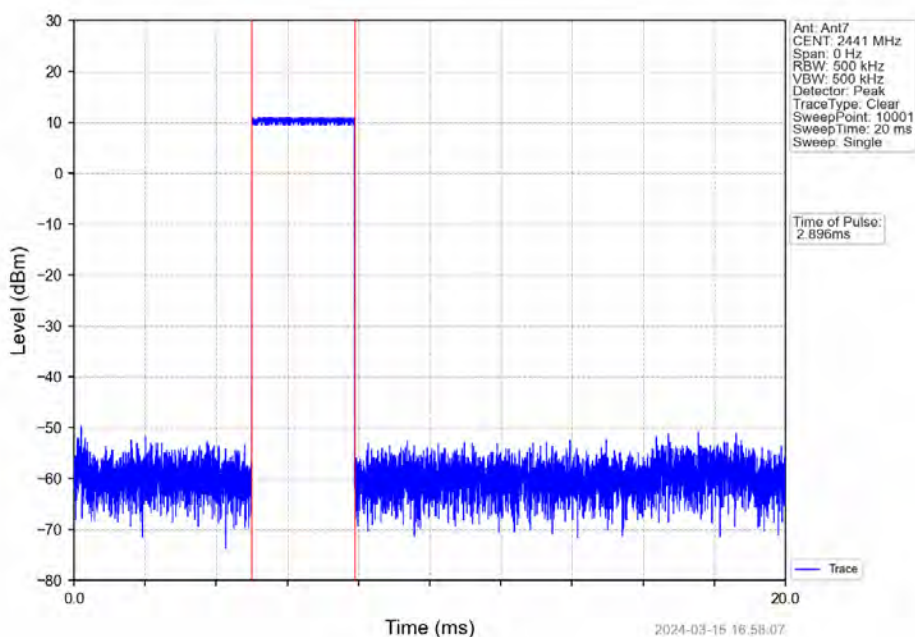


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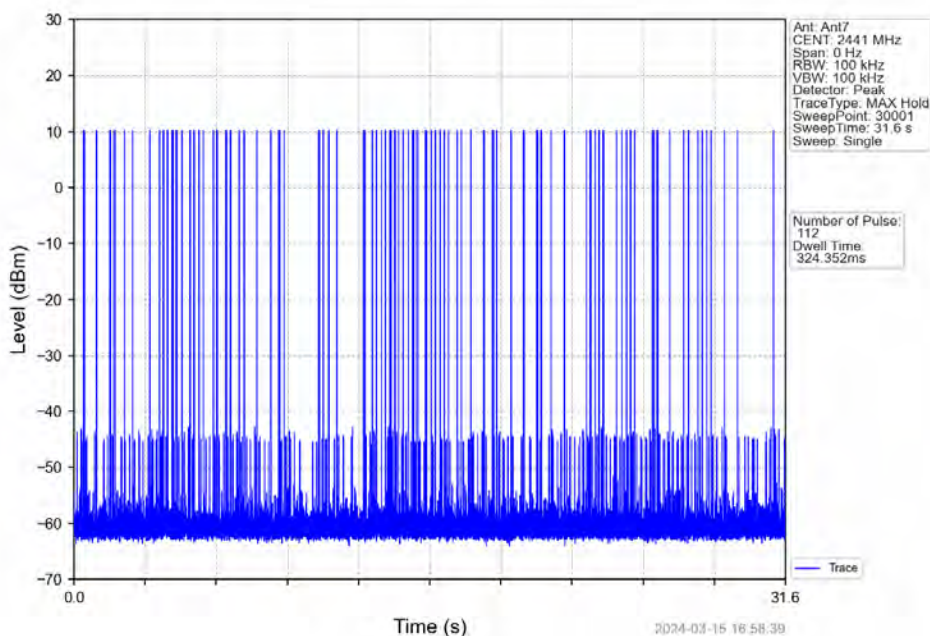
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GFSK DH5_HOPP_Ant7_NTNV



GFSK_DH5_HOPP_Ant7_NTNV



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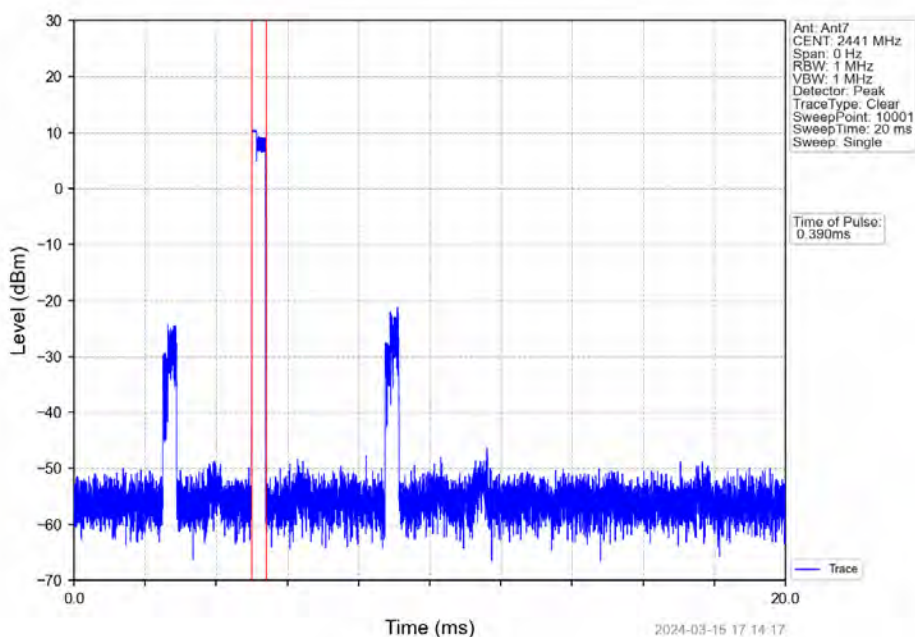


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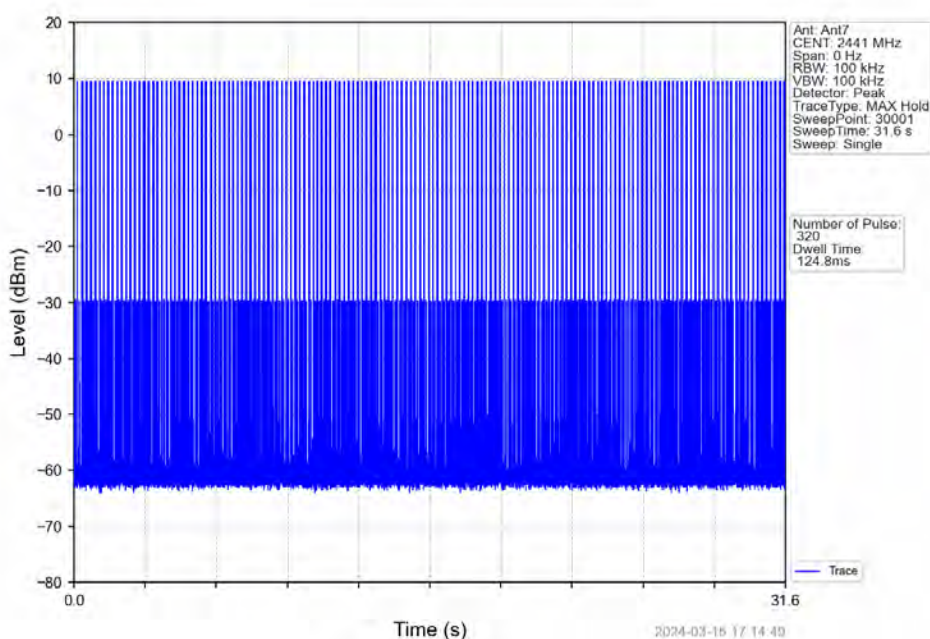
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Pi/4DQPSK_2DH1_HOPP_Ant7_NTNV



Pi/4DQPSK_2DH1_HOPP_Ant7_NTNV



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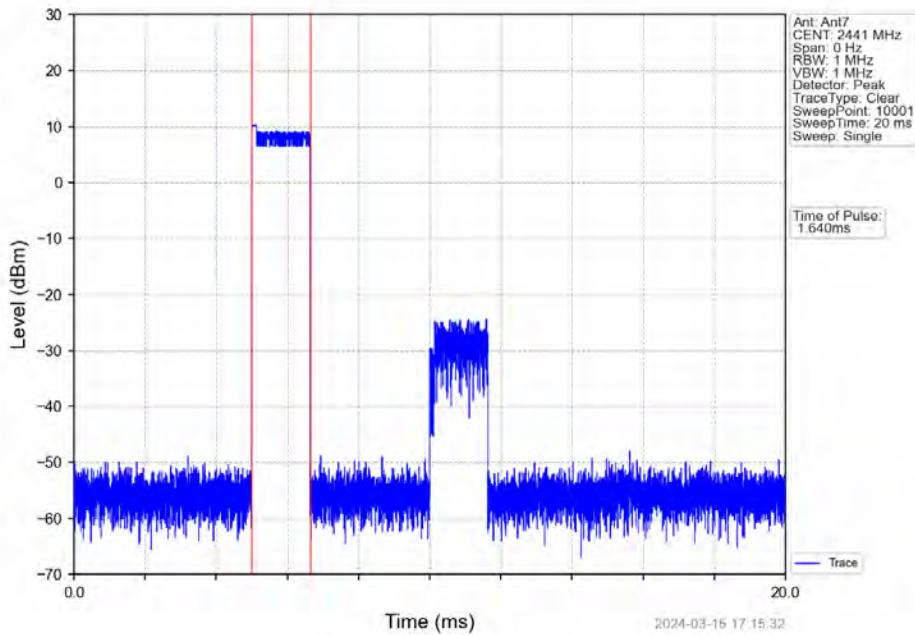
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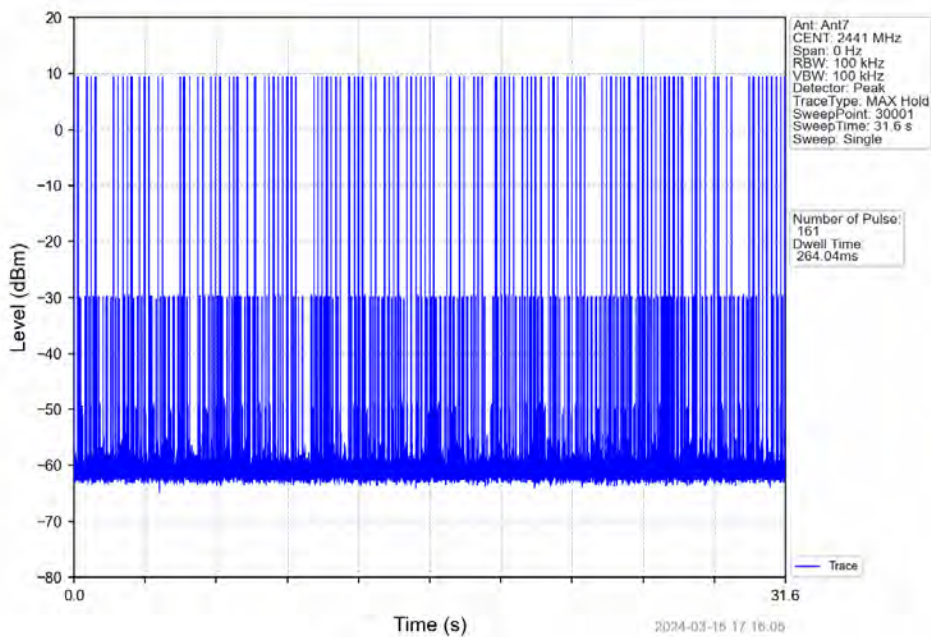
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Pi/4DQPSK_2DH3_HOPP_Ant7_NTNV



Pi/4DQPSK_2DH3_HOPP_Ant7_NTNV



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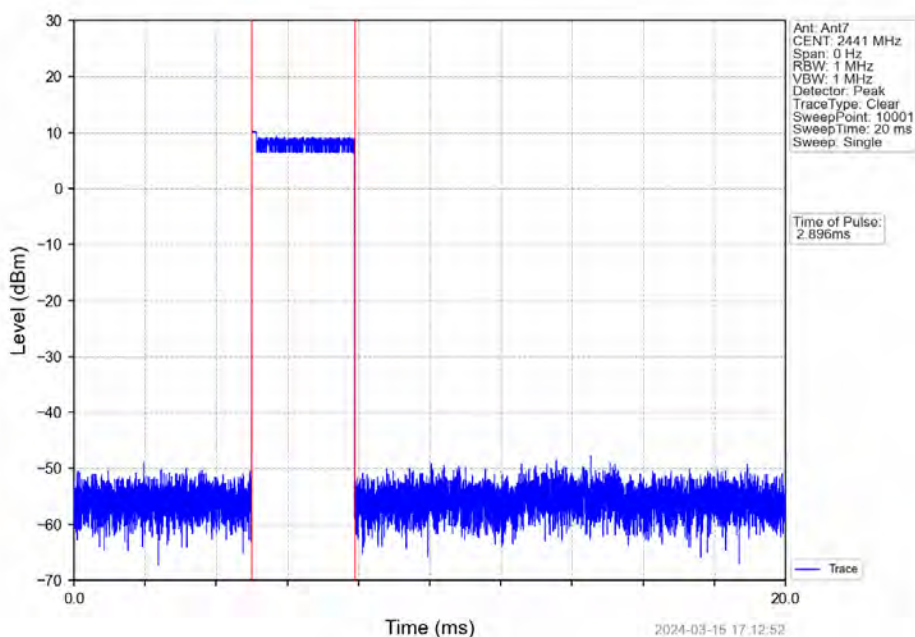


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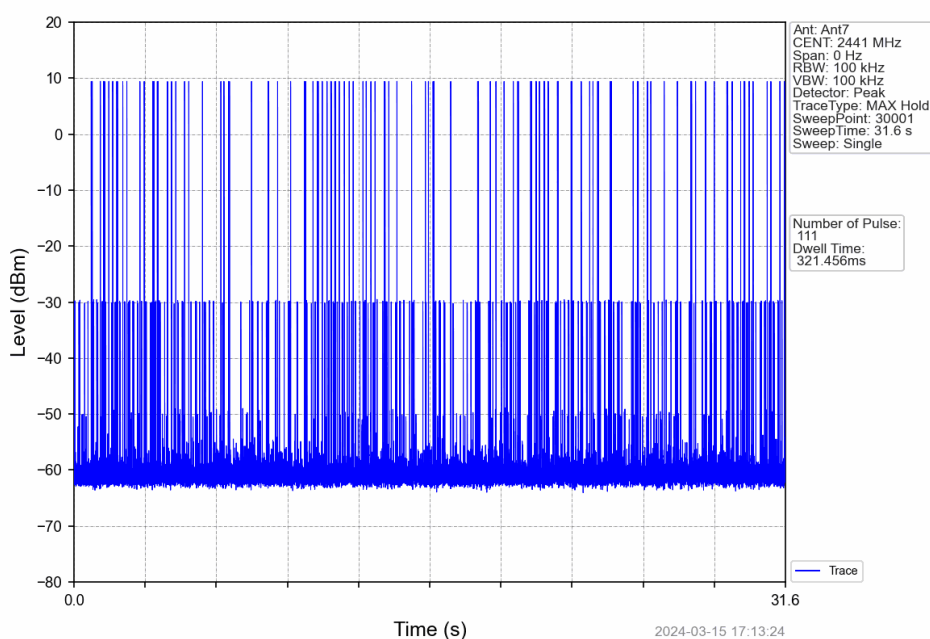
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Pi/4DQPSK_2DH5_HOPP_Ant7_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant7_NTNV



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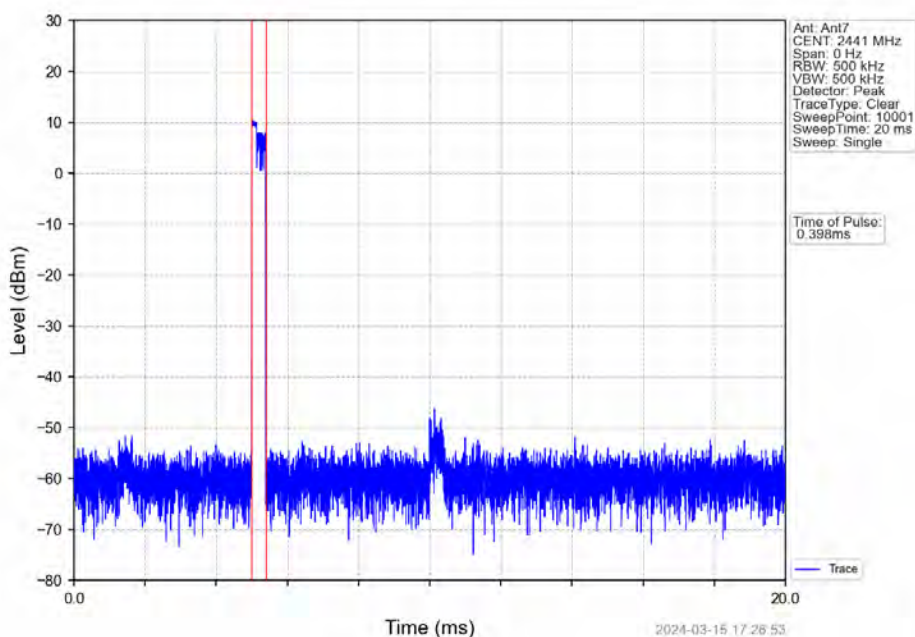


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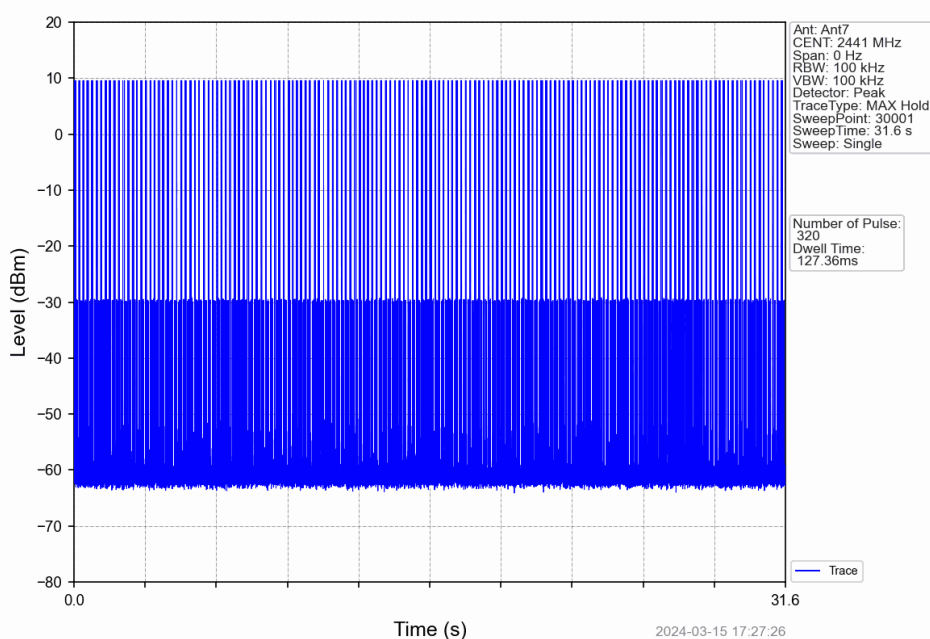
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8DPSK 3DH1_HOPP_Ant7_NTNV



8DPSK 3DH1_HOPP_Ant7_NTNV



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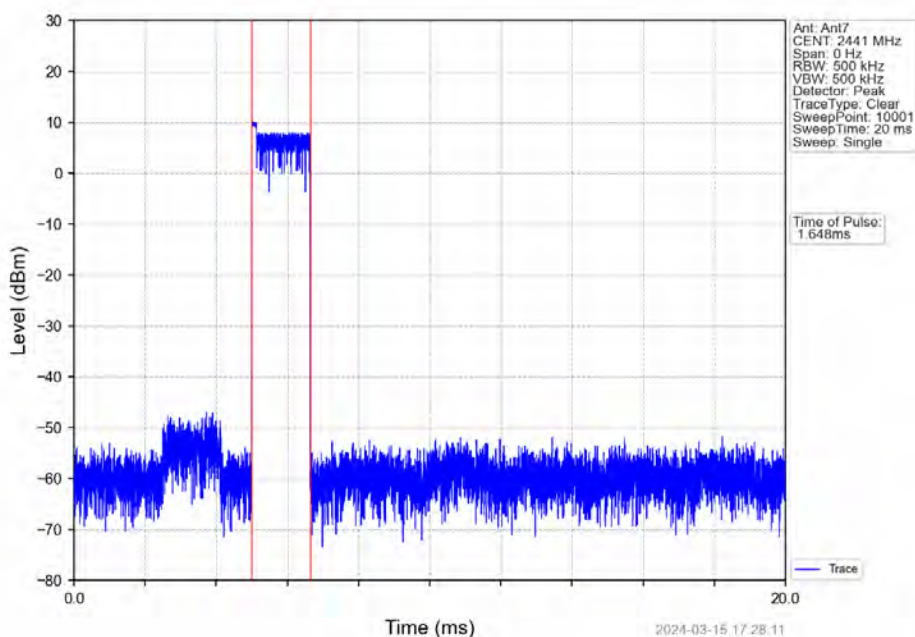


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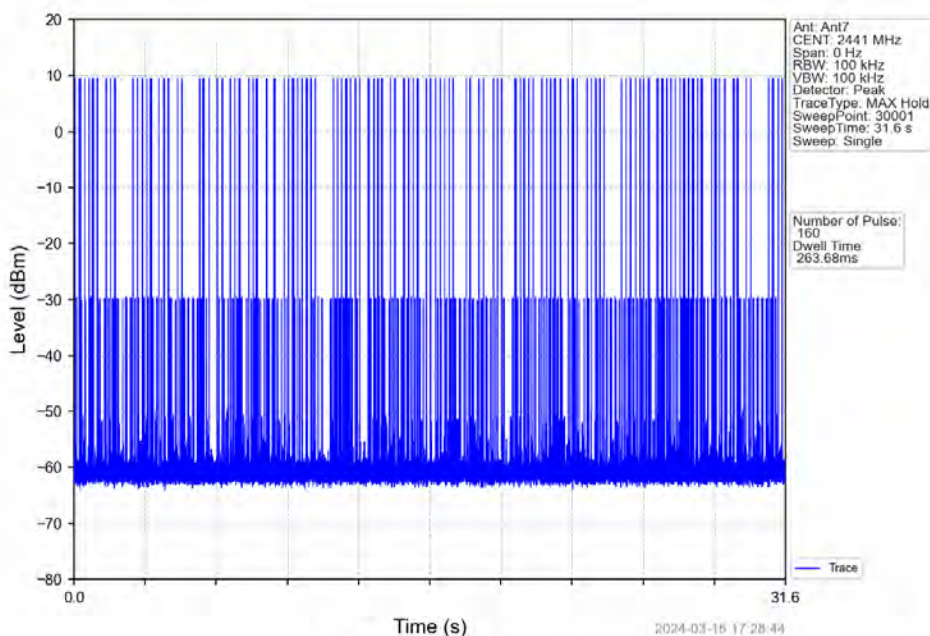
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8DPSK 3DH3 HOPP_Ant7_NTNV



8DPSK 3DH3 HOPP_Ant7_NTNV



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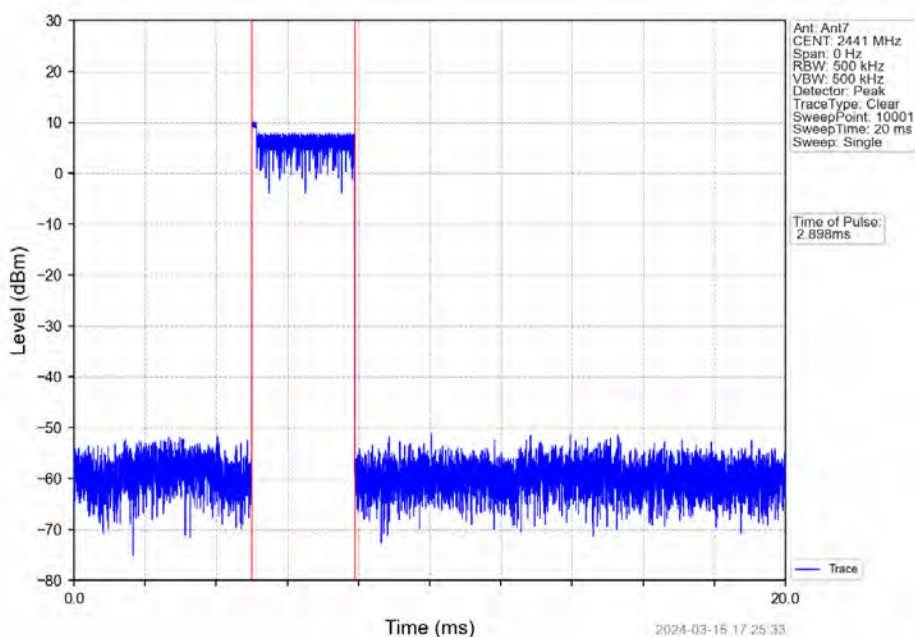


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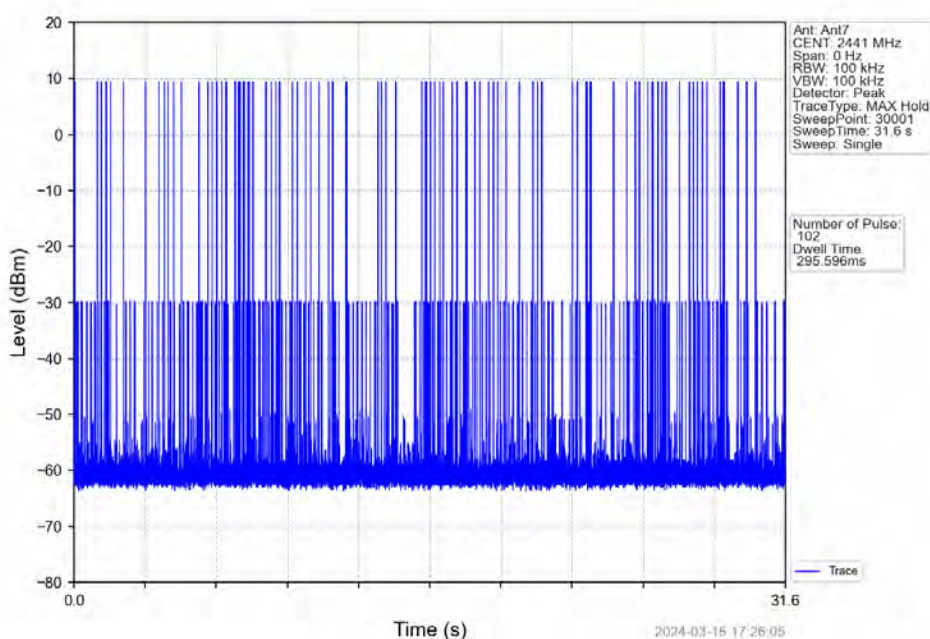
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8DPSK 3DH5_HOPP_Ant7_NTNV



8DPSK 3DH5_HOPP_Ant7_NTNV



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Unwanted Emissions In Non-restricted Frequency Bands

Ref

Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	7	10.44
		2441	DH5	7	10.51
		2480	DH5	7	6.20
Pi/4DQPSK	SISO	2402	2DH5	7	10.27
		2441	2DH5	7	10.02
		2480	2DH5	7	5.56
8DPSK	SISO	2402	3DH5	7	10.31
		2441	3DH5	7	10.06
		2480	3DH5	7	5.61

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



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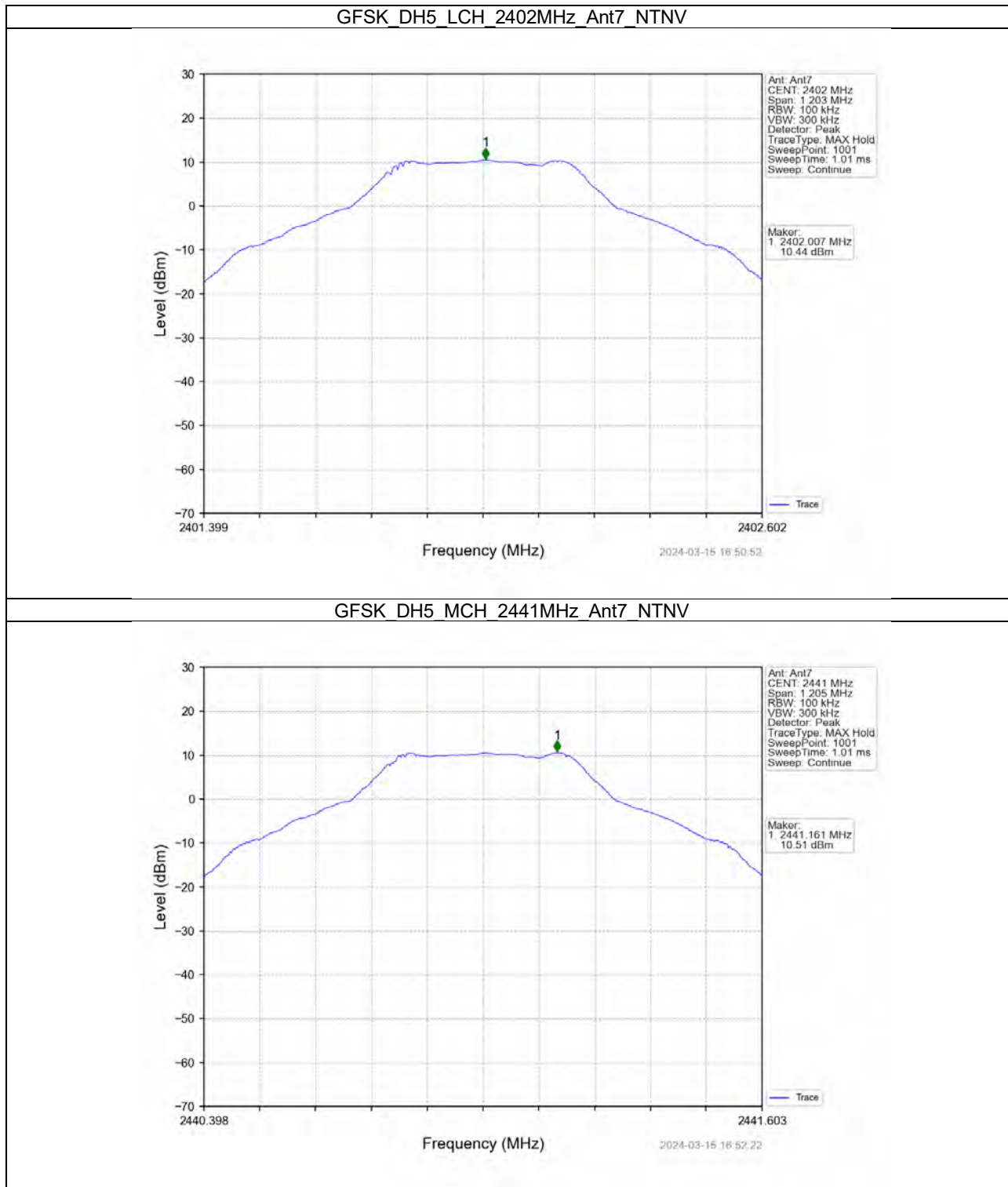
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Test Graph



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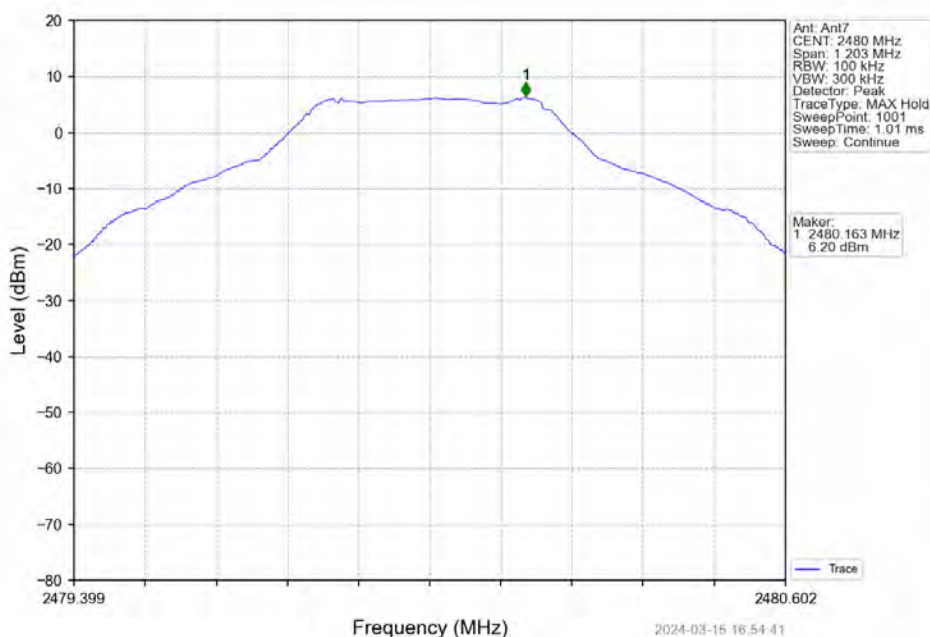


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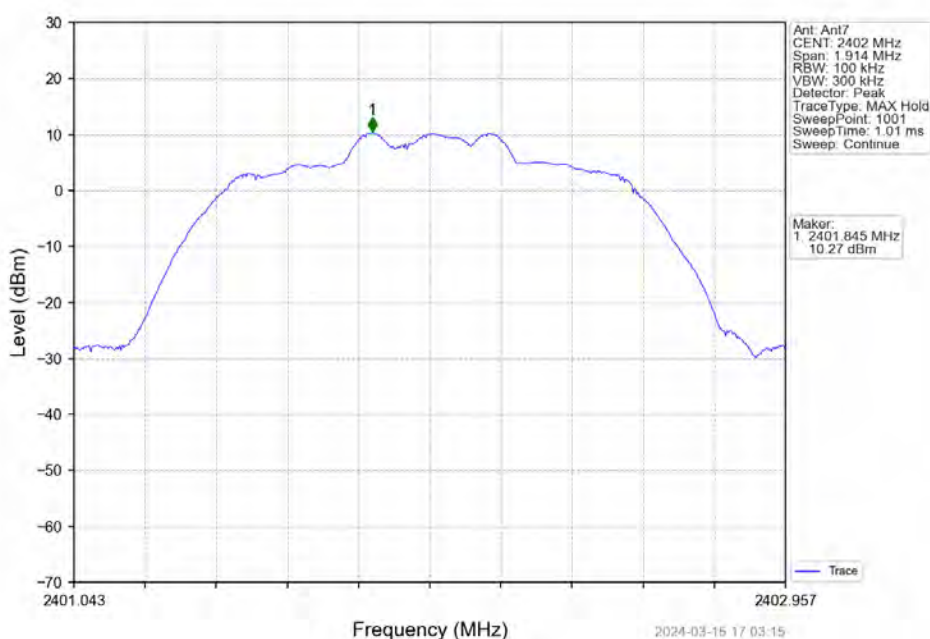
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GFSK DH5 HCH 2480MHz_Ant7_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant7_NTNV



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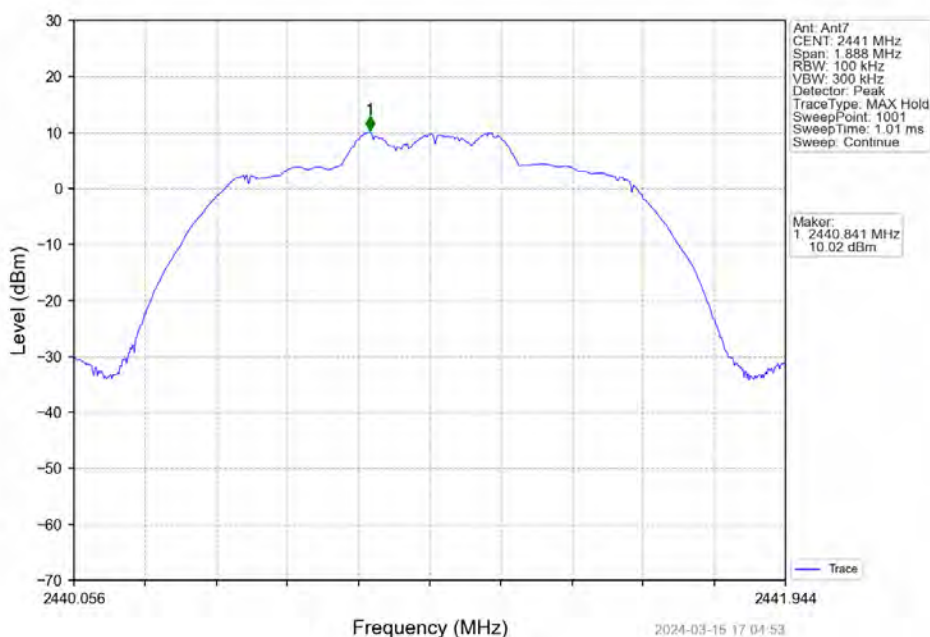


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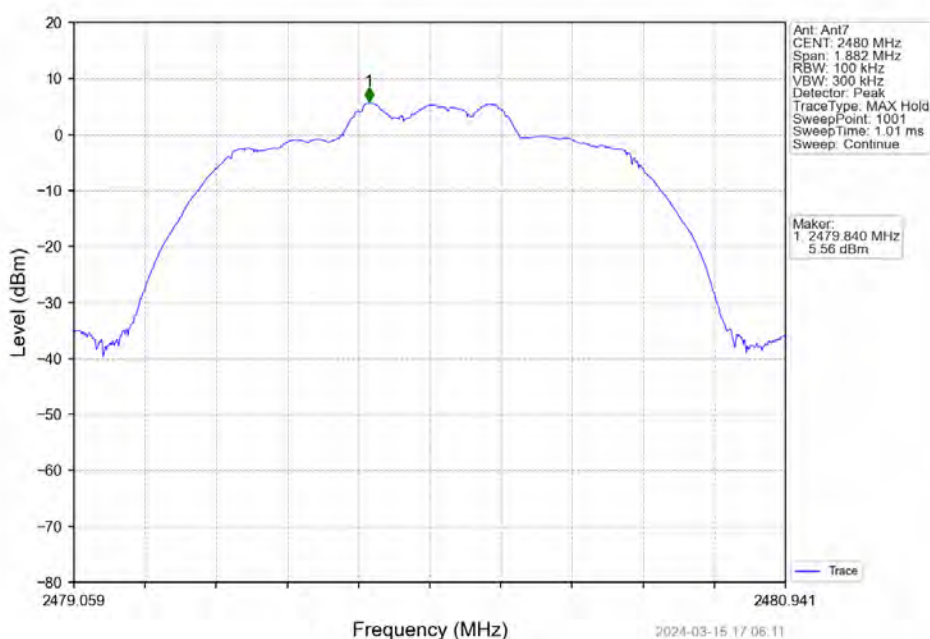
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant7_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant7_NTNV



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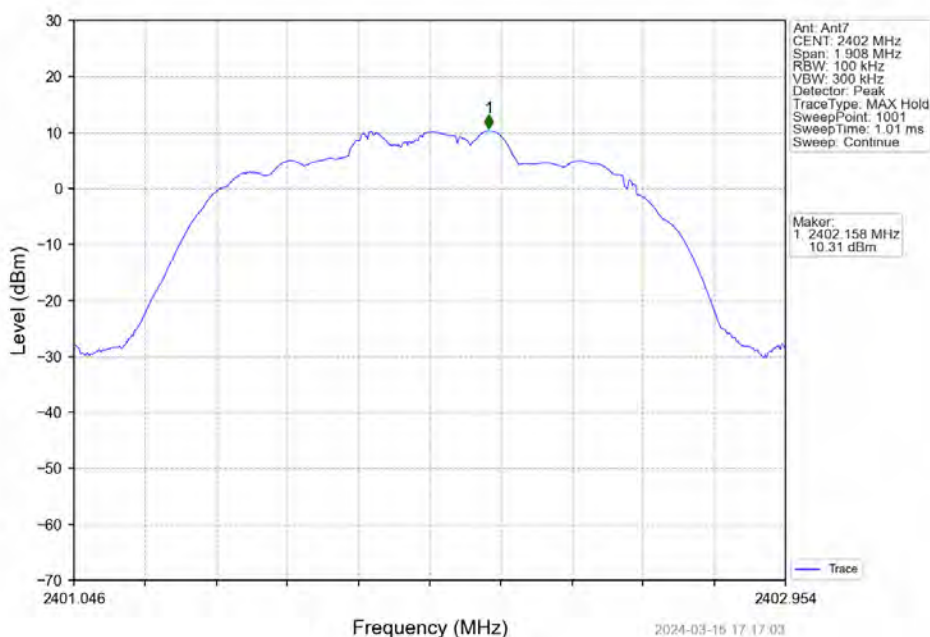


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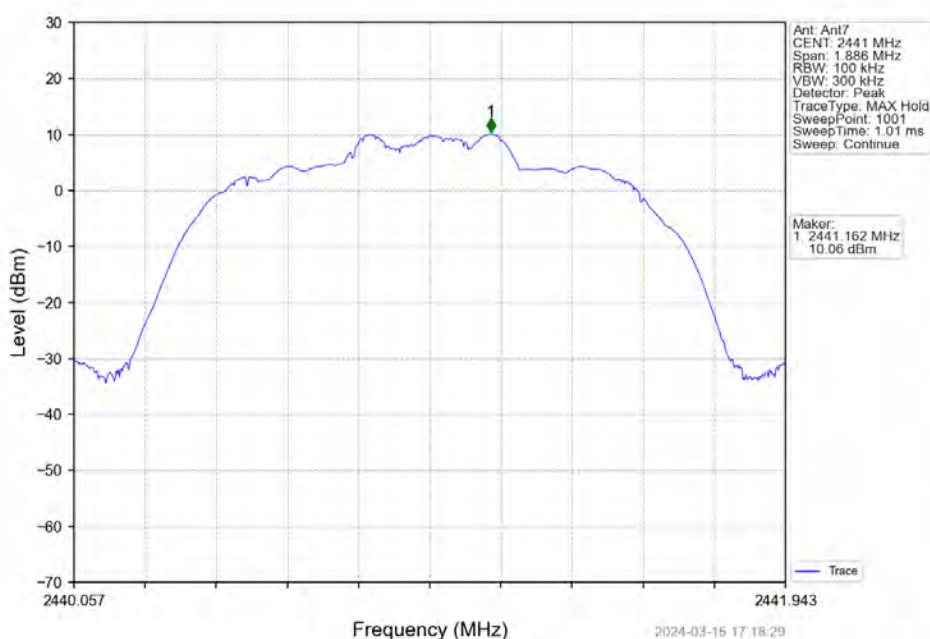
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8DPSK_3DH5_LCH_2402MHz_Ant7_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant7_NTNV



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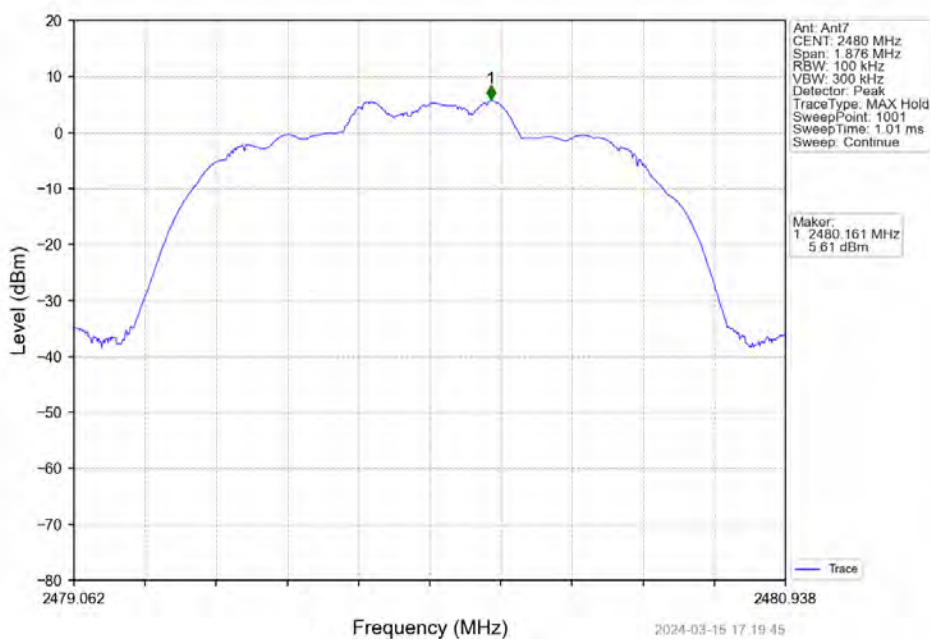


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8DPSK 3DH5 HCH 2480MHz Ant7 NTN



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CSE

Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	7	10.51	-9.49	Pass
		2441	DH5	7	10.51	-9.49	Pass
		2480	DH5	7	10.51	-9.49	Pass
		HOPP	DH5	7	10.51	-9.49	Pass
					10.51	-9.49	Pass
					10.51	-9.49	Pass
Pi/4DQPSK	SISO	2402	2DH5	7	10.27	-9.73	Pass
		2441	2DH5	7	10.27	-9.73	Pass
		2480	2DH5	7	10.27	-9.73	Pass
		HOPP	2DH5	7	10.27	-9.73	Pass
					10.27	-9.73	Pass
					10.27	-9.73	Pass
8DPSK	SISO	2402	3DH5	7	10.31	-9.69	Pass
		2441	3DH5	7	10.31	-9.69	Pass
		2480	3DH5	7	10.31	-9.69	Pass
		HOPP	3DH5	7	10.31	-9.69	Pass
					10.31	-9.69	Pass
					10.31	-9.69	Pass

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



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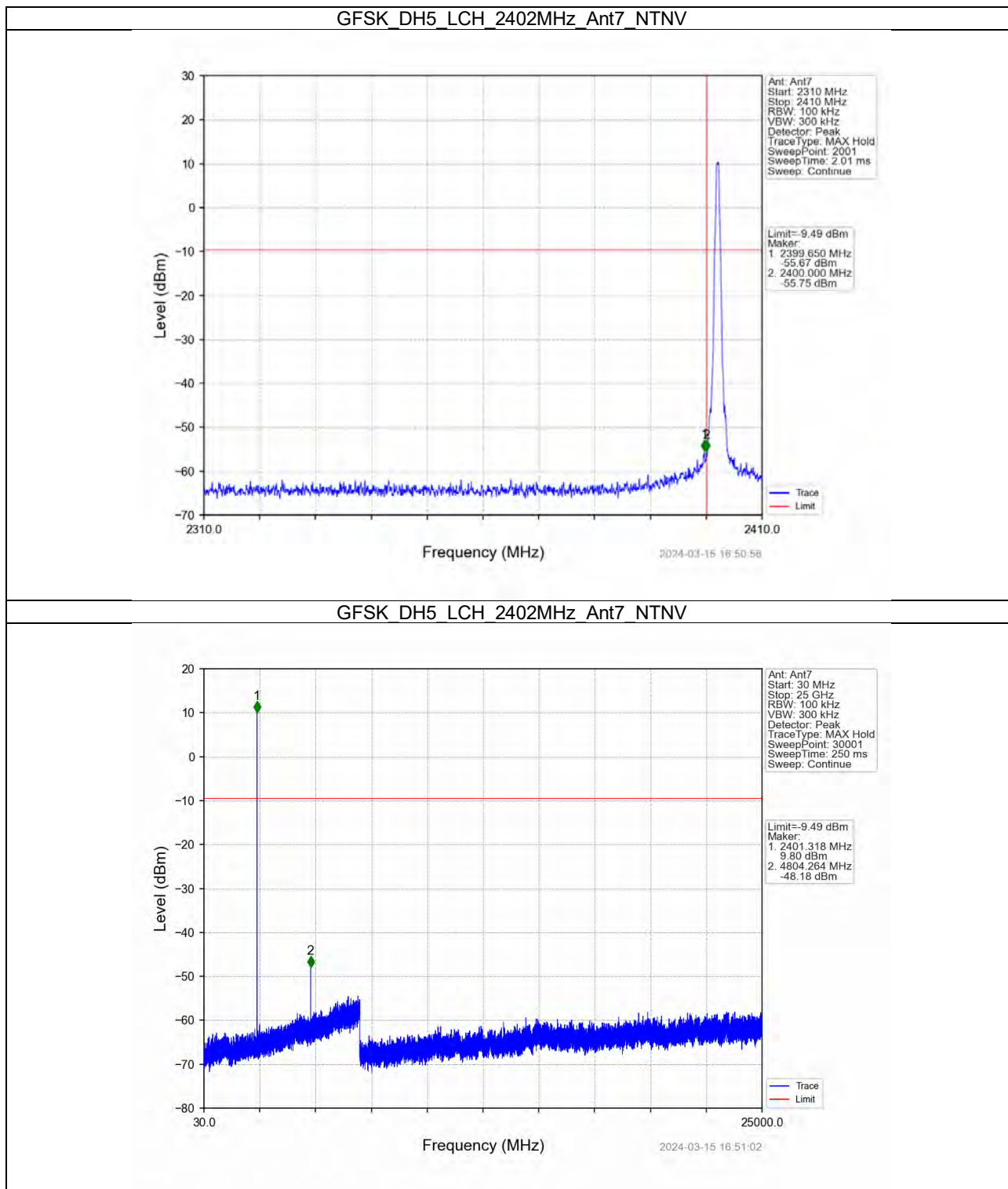
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Test Graph



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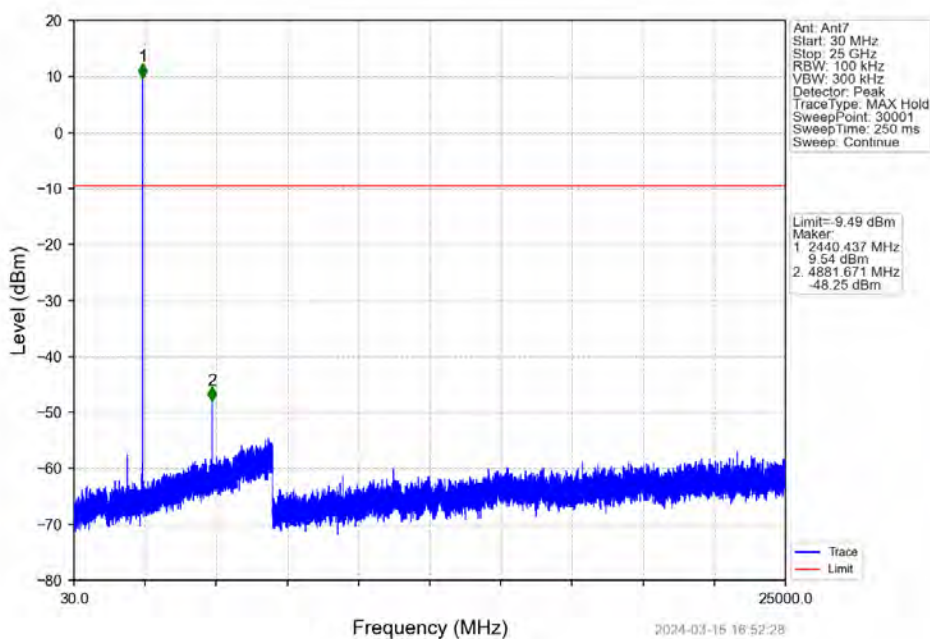


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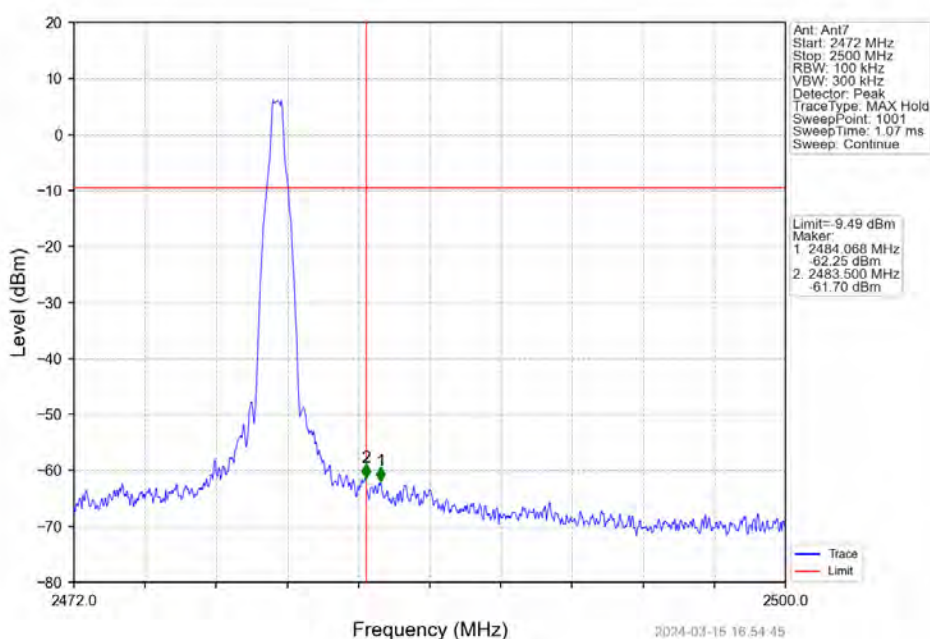
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GFSK_DH5_MCH_2441MHz_Ant7_NTNV



GFSK_DH5_HCH_2480MHz_Ant7_NTNV



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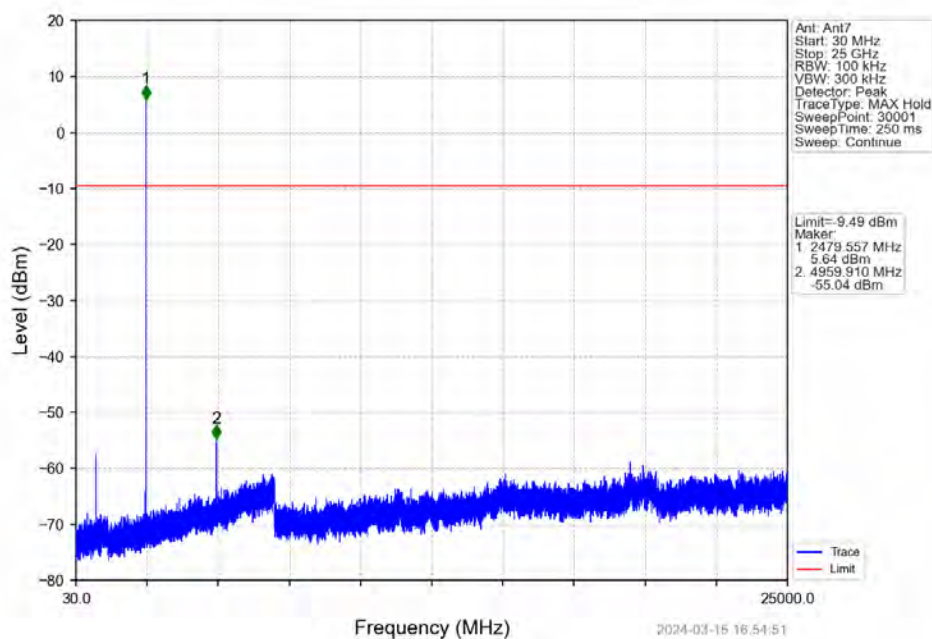
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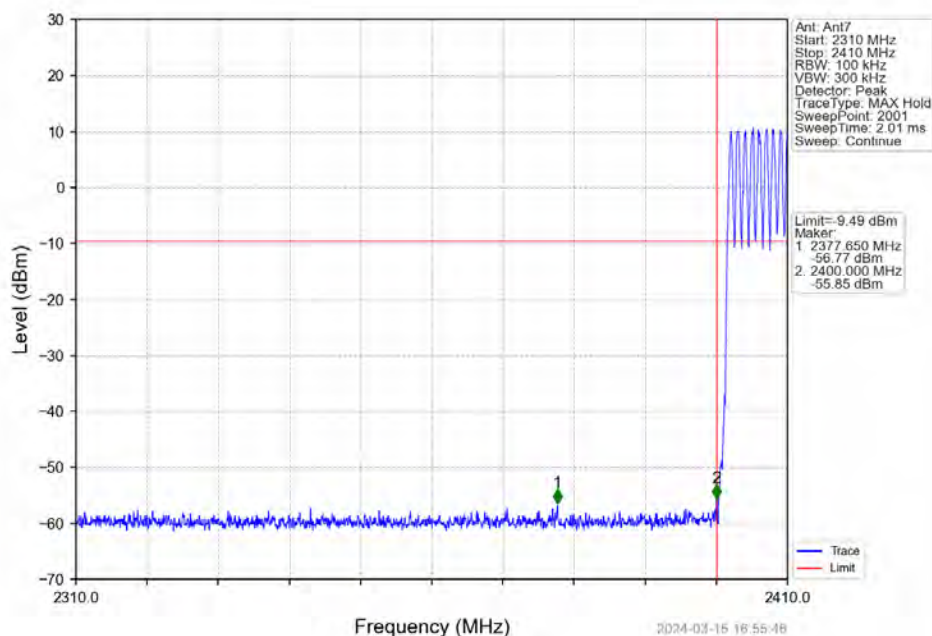
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GFSK DH5 HCH 2480MHz Ant7 NTN



GFSK_DH5_HOPP_Ant7_NTN



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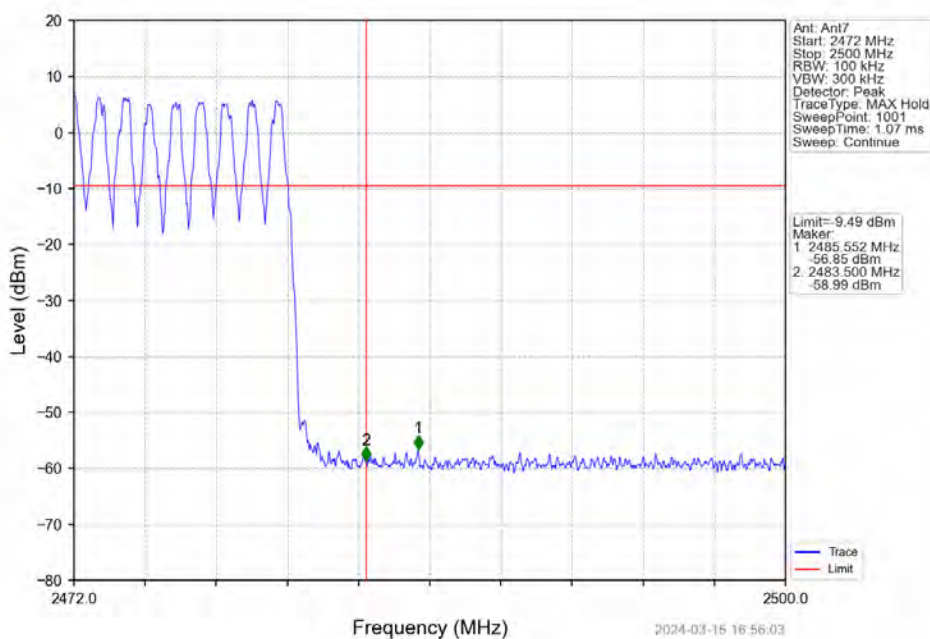


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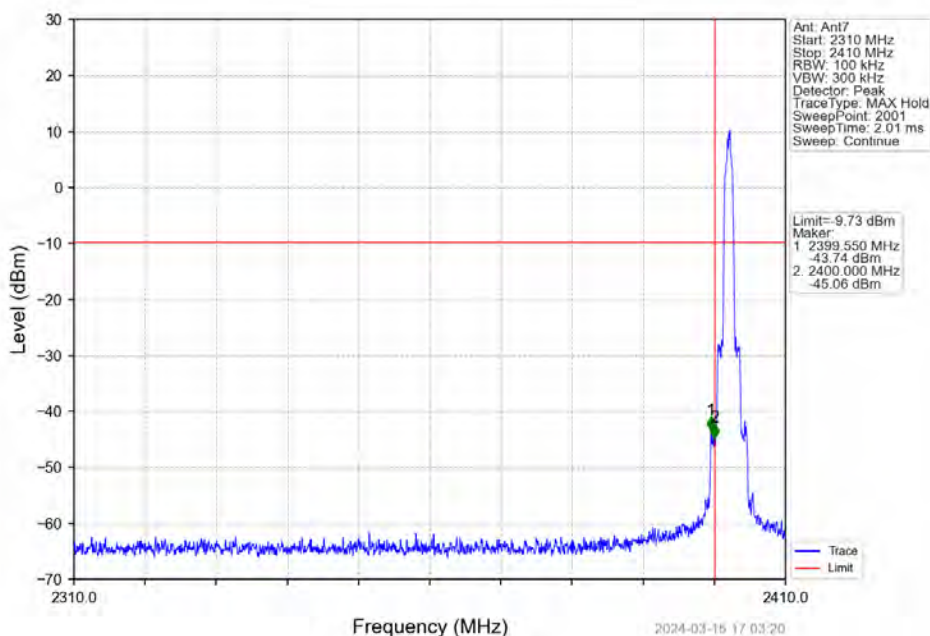
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GFSK DH5 HOPP_Ant7_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant7_NTNV



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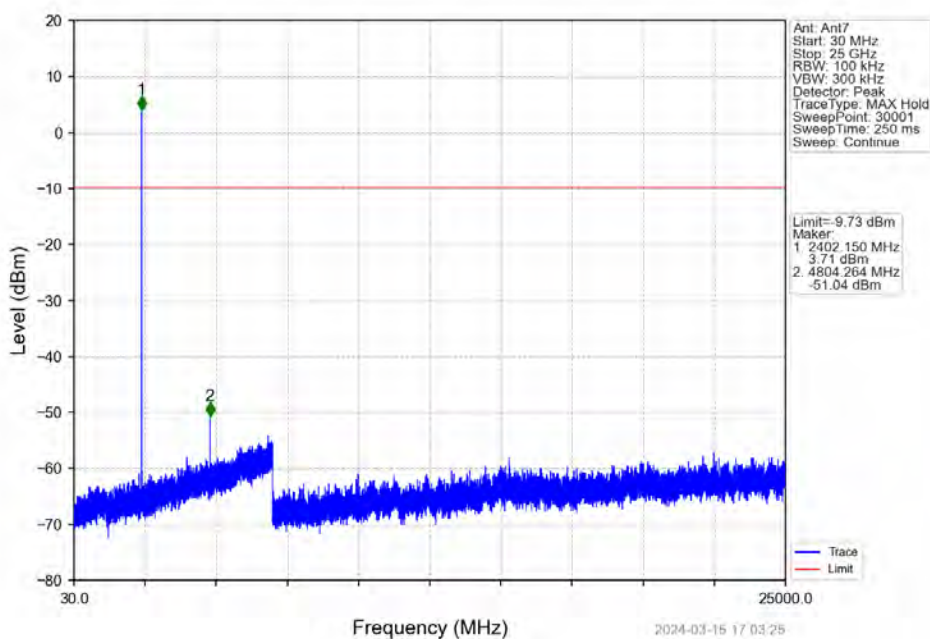


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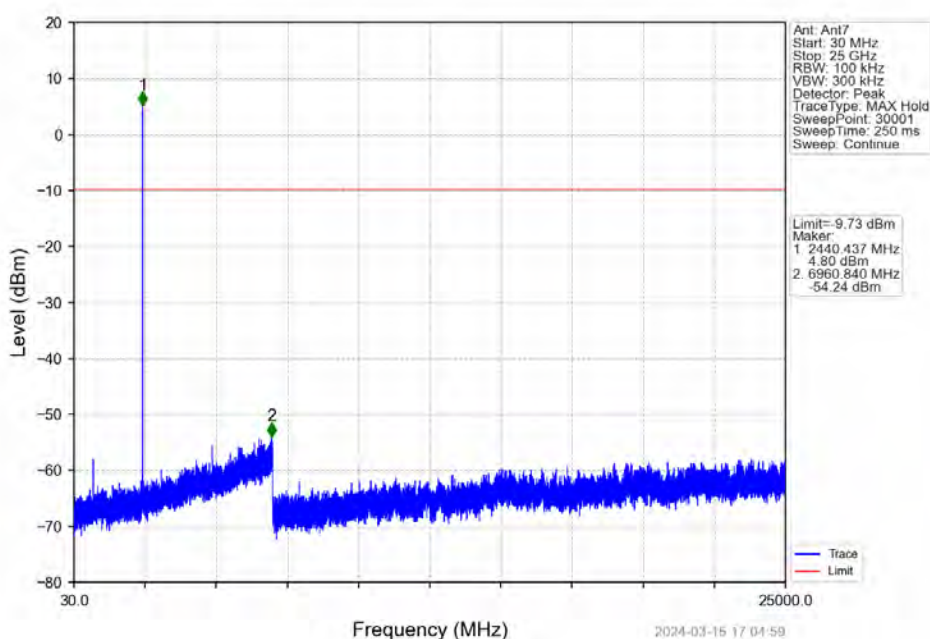
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant7_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant7_NTNV



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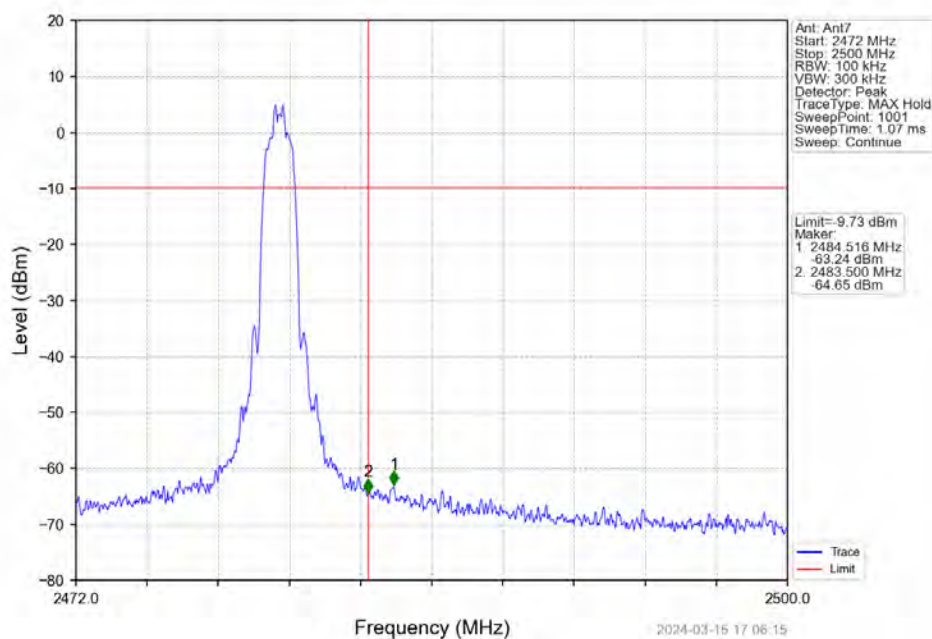


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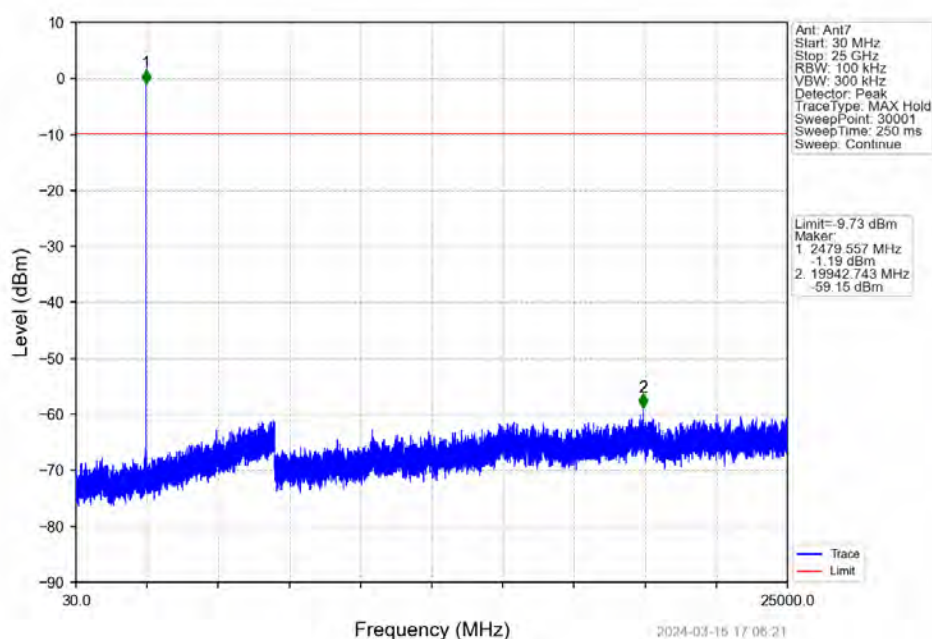
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant7_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant7_NTNV



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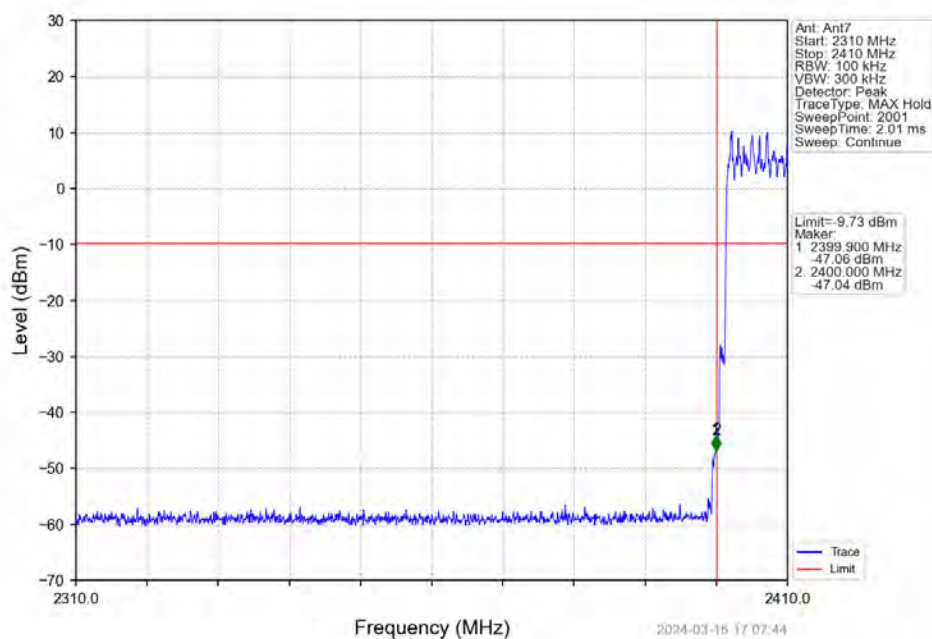


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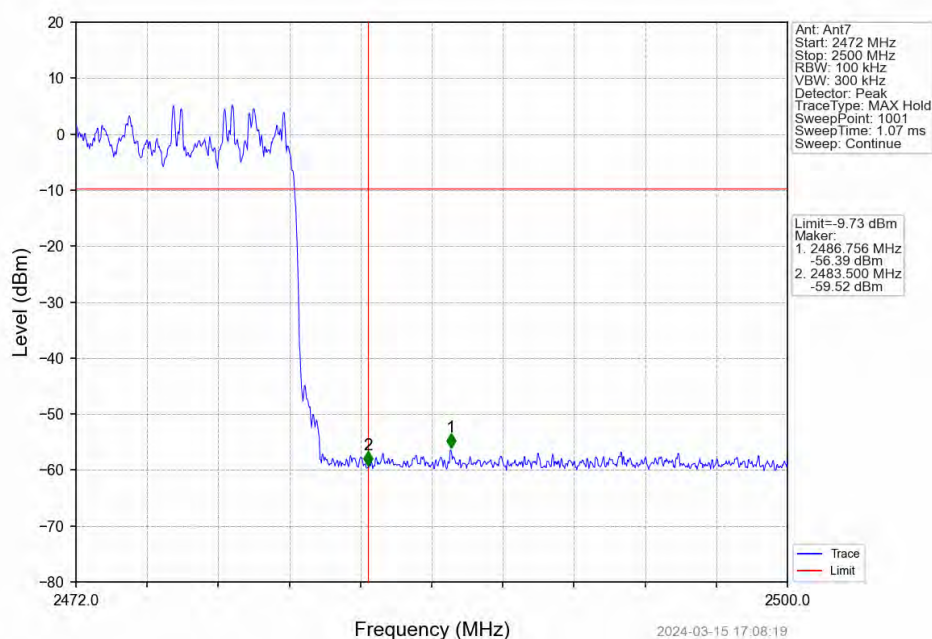
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Pi/4DQPSK_2DH5_HOPP_Ant7_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant7_NTNV



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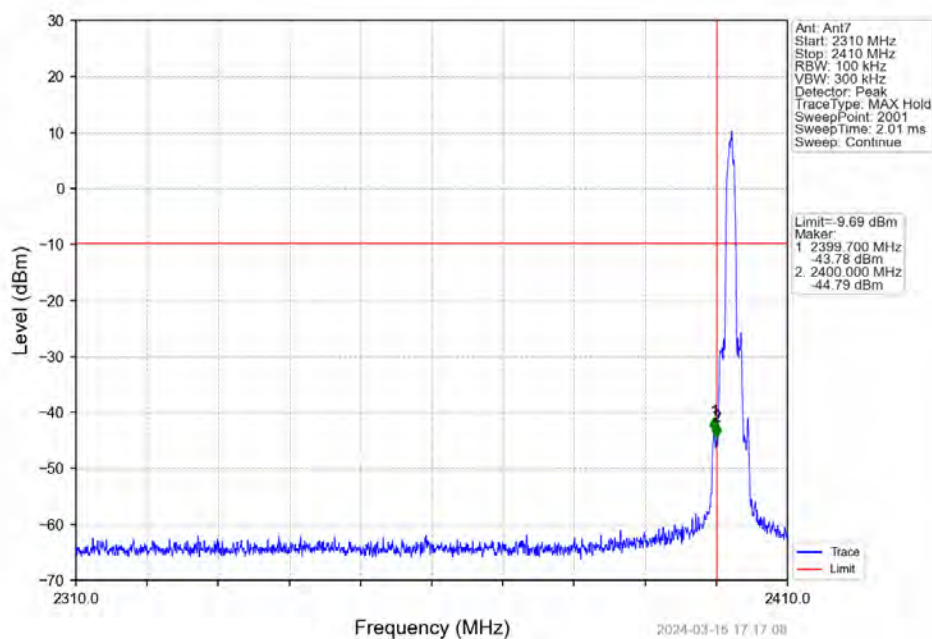


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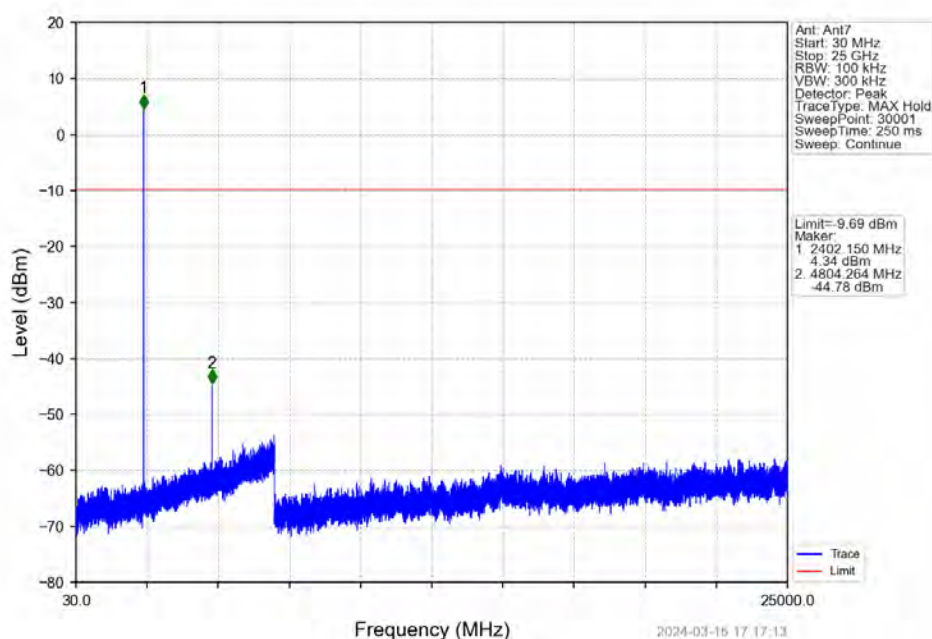
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8DPSK_3DH5_LCH_2402MHz_Ant7_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant7_NTNV



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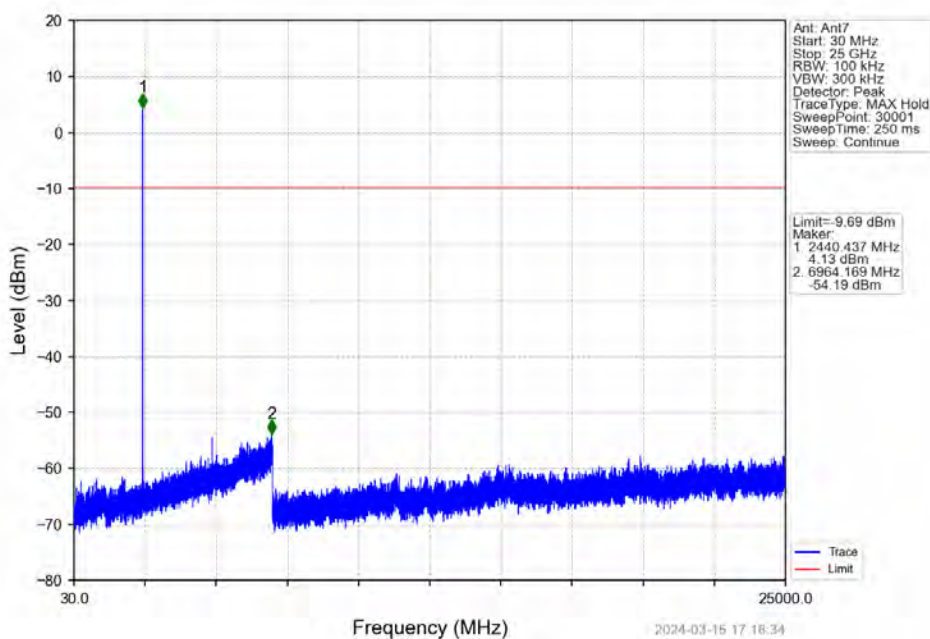
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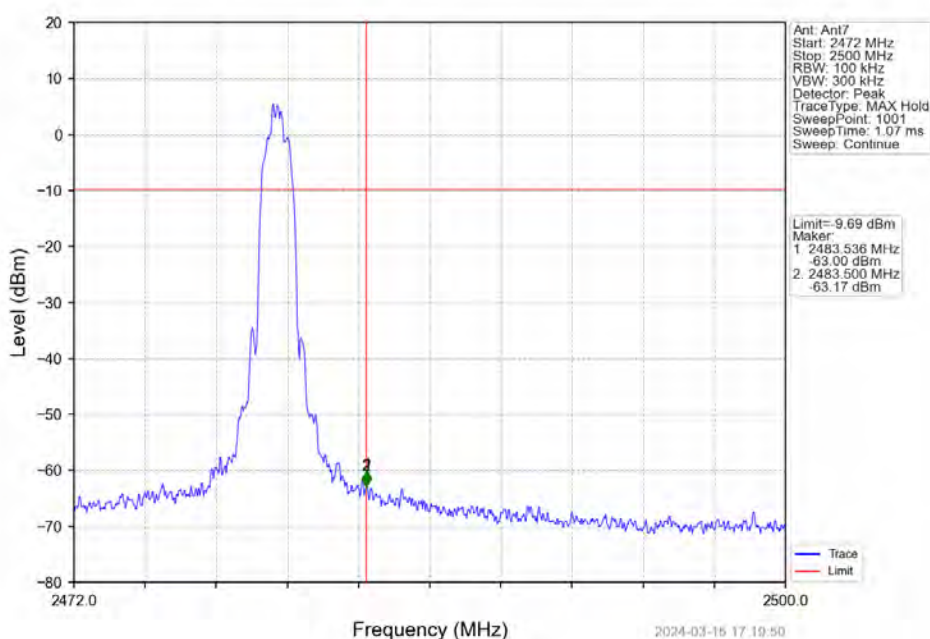
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8DPSK_3DH5_MCH_2441MHz_Ant7_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant7_NTNV



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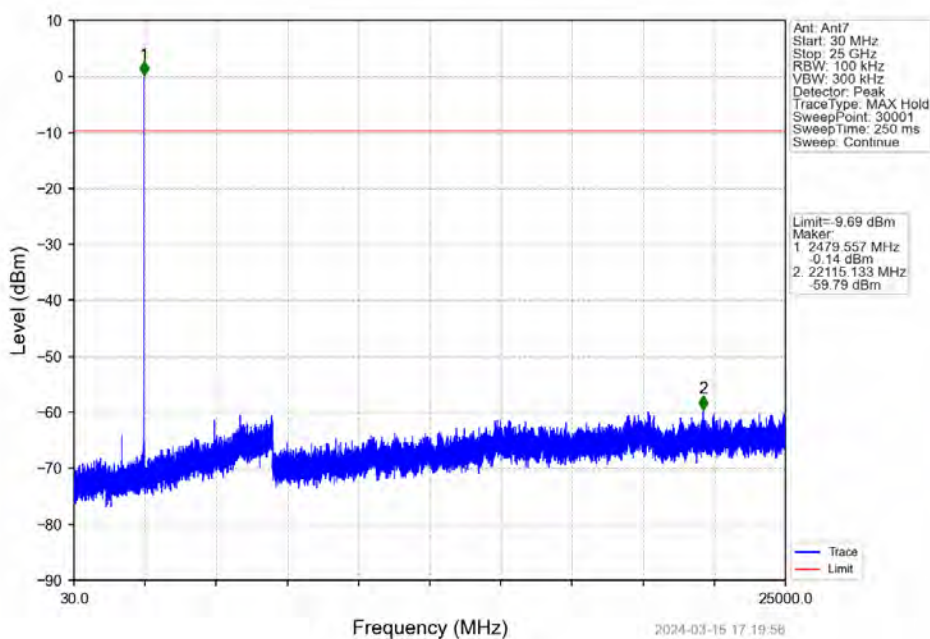
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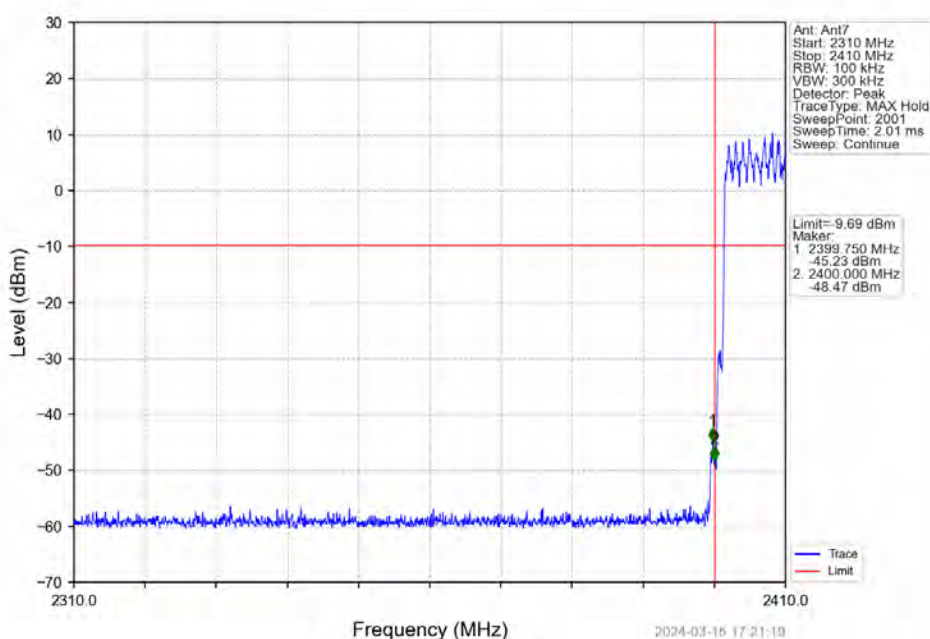
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8DPSK_3DH5_HCH_2480MHz_Ant7_NTNV



8DPSK_3DH5_HOPP_Ant7_NTNV



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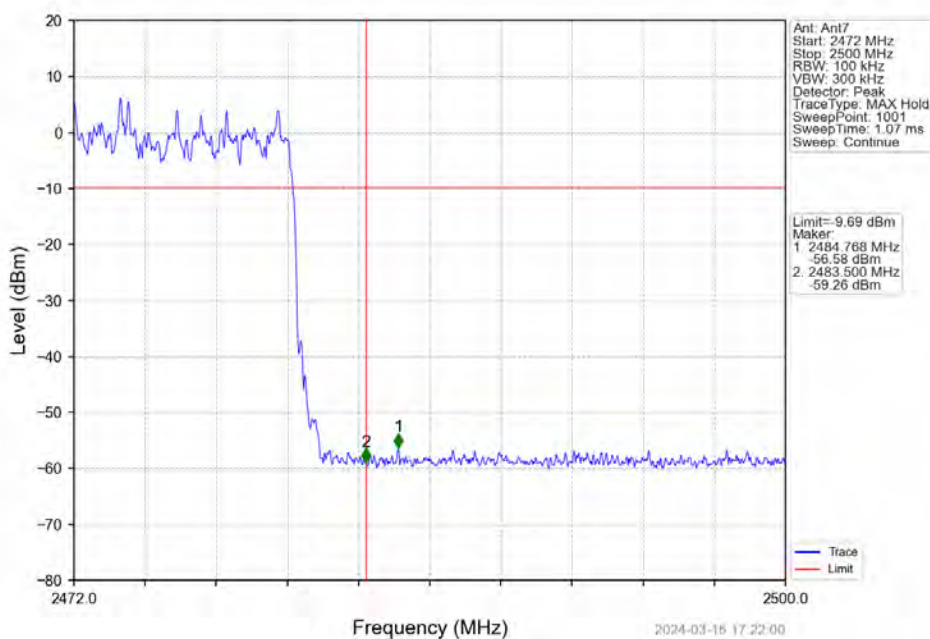


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8DPSK 3DH5 HOPP Ant7 NTN



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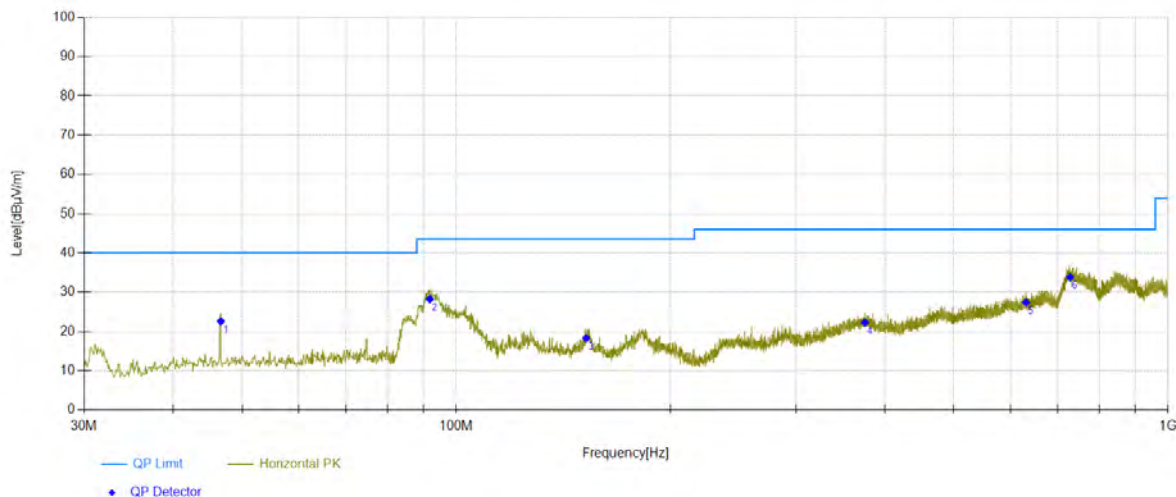
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: GFSK_Channel 78



Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	46.6857	36.67	-25.16	11.07	22.58	40.00	17.42	Horizontal
2	91.7952	38.39	-24.47	14.37	28.29	43.50	15.21	Horizontal
3	152.2322	30.4	-23.86	11.74	18.28	43.50	25.22	Horizontal
4	375.1605	25.63	-22.60	19.27	22.30	46.00	23.70	Horizontal
5	631.6542	26.28	-20.96	22.10	27.42	46.00	18.58	Horizontal
6	728.2758	25.67	-20.81	28.97	33.83	46.00	12.17	Horizontal



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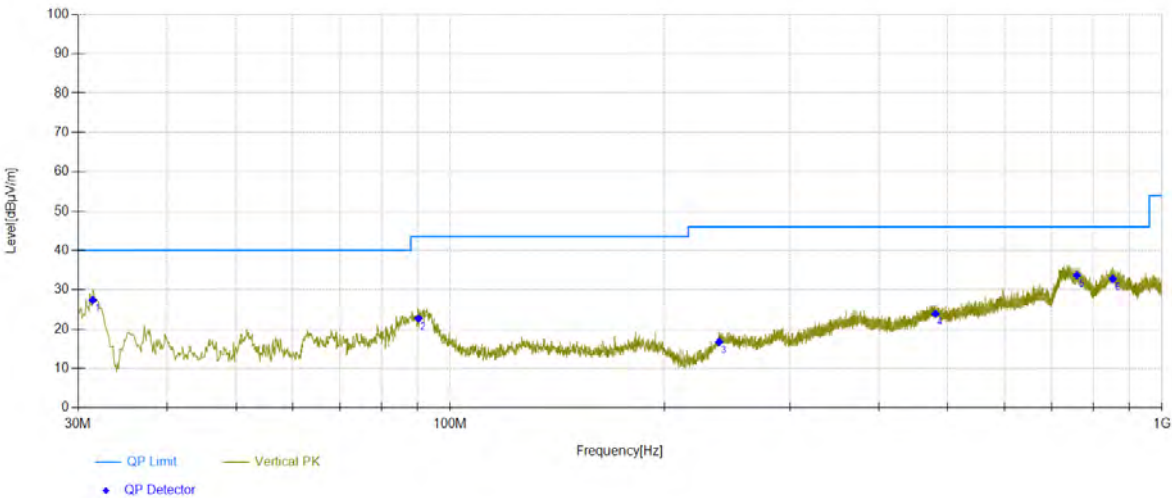
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	31.4551	43.82	-25.36	8.92	27.38	40.00	12.62	Vertical
2	90.243	32.79	-24.45	14.35	22.69	43.50	20.81	Vertical
3	238.6679	26.55	-23.40	13.65	16.80	46.00	29.20	Vertical
4	480.5131	25.74	-21.48	19.64	23.90	46.00	22.10	Vertical
5	759.2219	26.58	-20.91	28.04	33.71	46.00	12.29	Vertical
6	852.7393	25.95	-20.84	27.64	32.75	46.00	13.25	Vertical

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:
Value = Reading(dBμV) + AF(dB/m) + Factor(dB):
AF = Antenna Factor(dB/m)
Factor = Cable Factor(dB) - Preamplifier gain(dB)
Margin = Limit(dBμV/m) – Value(dBμV/m)
- 2) All channels have been tested, but only the worst case data displayed in this report.



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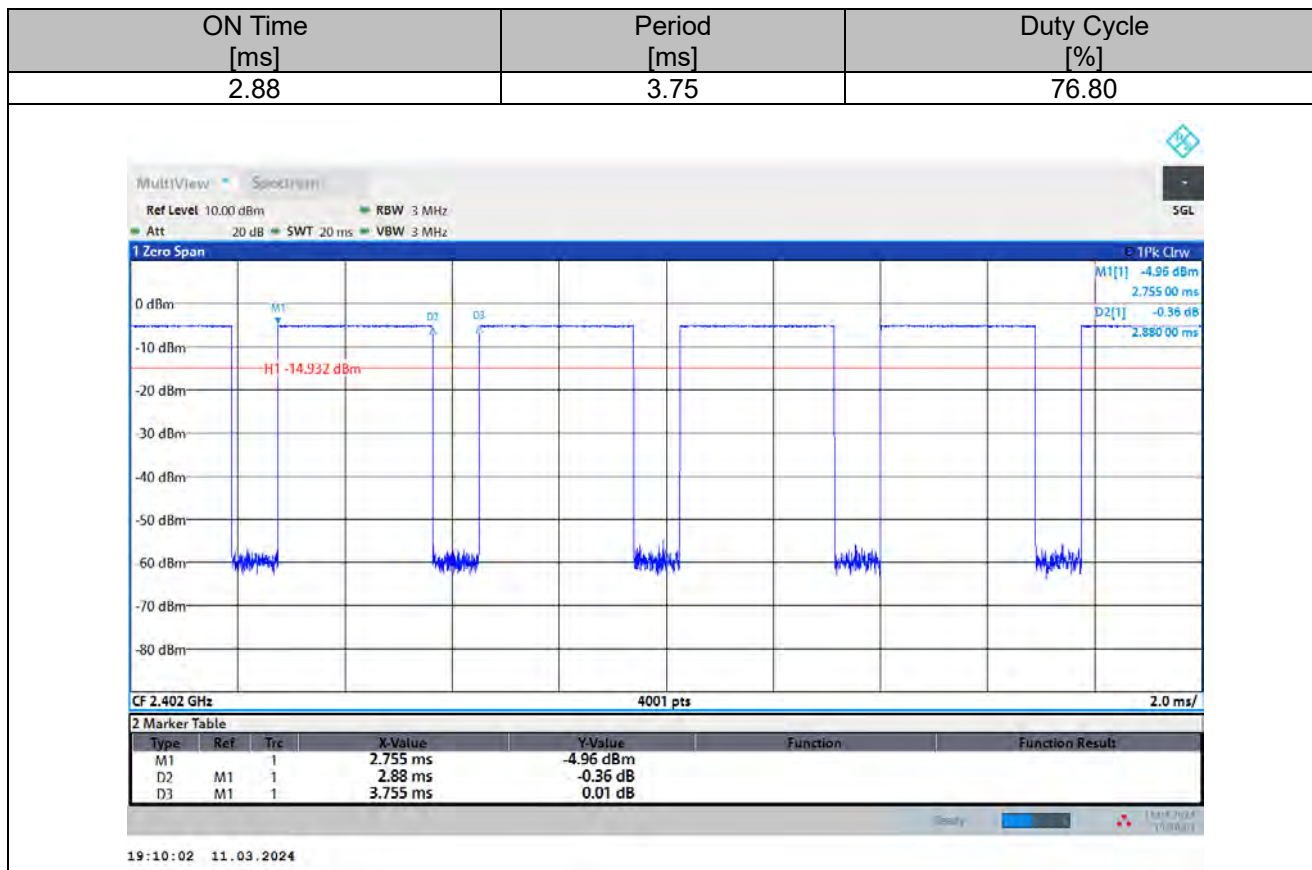


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Transmitter emission Above 1GHz

Duty cycle



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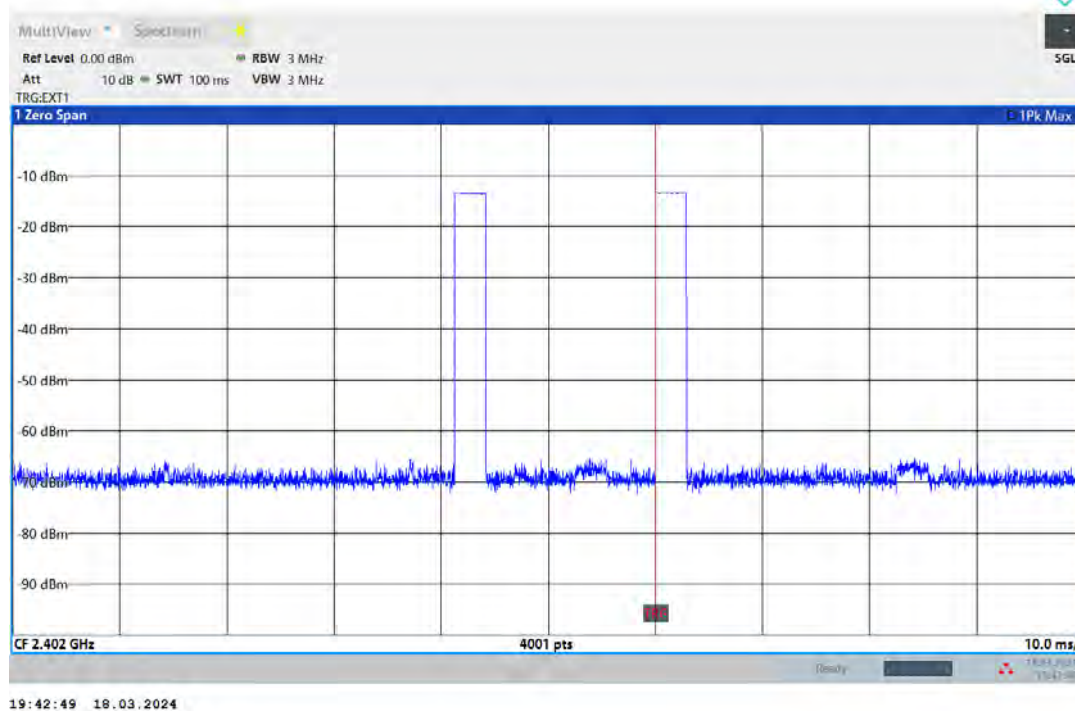
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On time (Number on)



Note:

1. Duty cycle = on time / 100 ms = 2 * 2.88 / 100 = 5.76%
2. Duty cycle Correction factor = $20 \cdot \log(\text{Duty cycle}) = -24.79\text{dB}$



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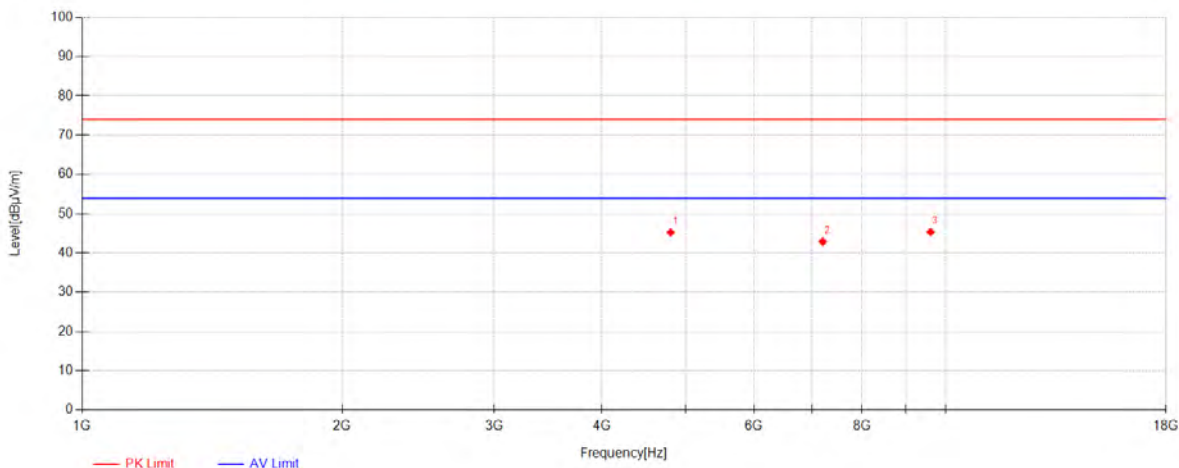
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802.GFSK_Channel 00



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4804.0000	61.41	30.93	-47.10	45.24	74.00	28.76	Horizontal
2	4804.0000	-	-	-	20.45	54.00	33.55	Horizontal
3	7206.0000	52.20	36.05	-45.37	42.88	74.00	31.12	Horizontal
4	7206.0000	-	-	-	18.09	54.00	35.91	Horizontal
5	9608.0000	49.82	37.50	-41.97	45.35	74.00	28.65	Horizontal
6	9608.0000	-	-	-	20.56	54.00	33.44	Horizontal



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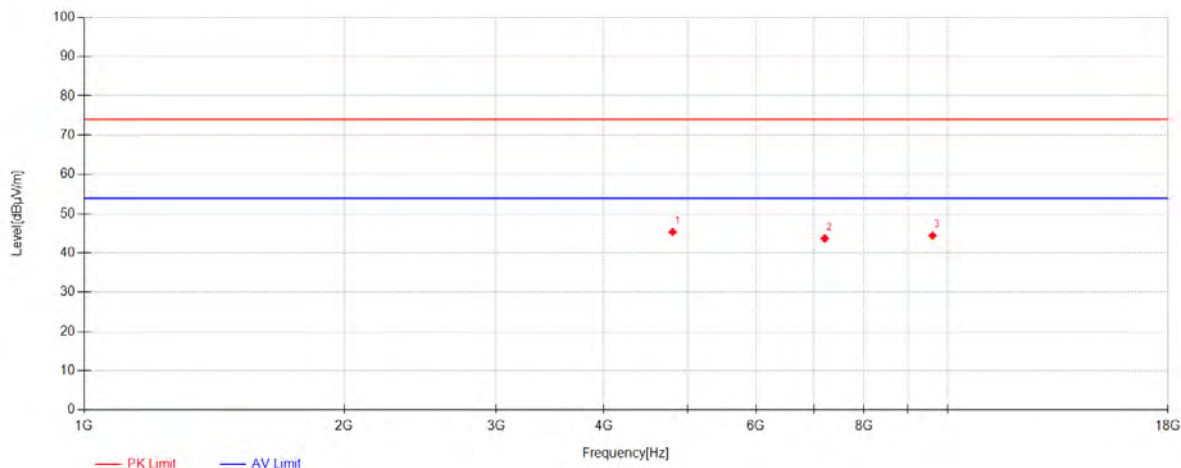
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4804.0000	61.53	30.93	-47.10	45.36	74.00	28.64	Vertical
2	4804.0000	-	-	-	20.57	54.00	33.43	Vertical
3	7206.0000	52.99	36.05	-45.37	43.67	74.00	30.33	Vertical
4	7206.0000	-	-	-	18.88	54.00	35.12	Vertical
5	9608.0000	48.91	37.50	-41.97	44.44	74.00	29.56	Vertical
6	9608.0000	-	-	-	19.65	54.00	34.35	Vertical



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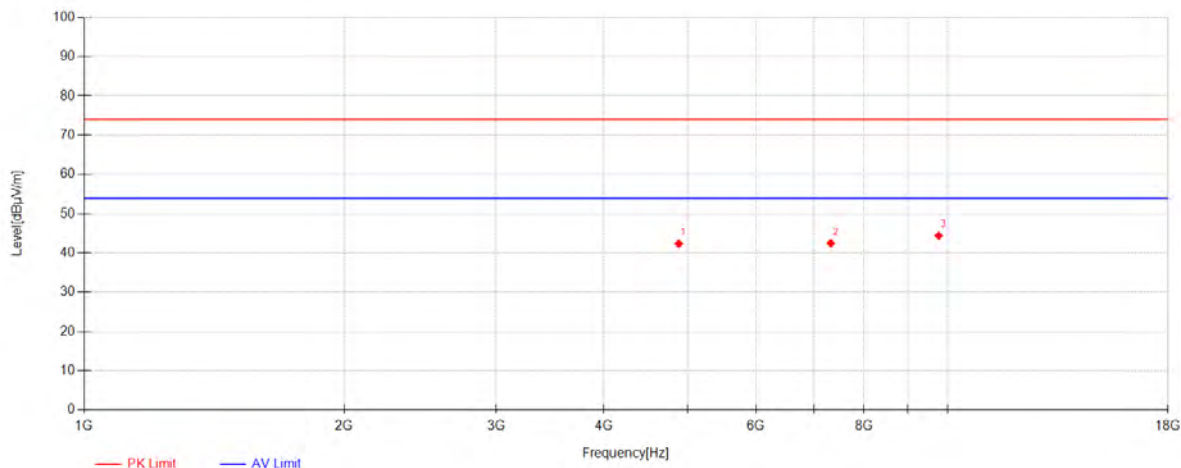
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4882.0000	58.26	31.12	-47.01	42.37	74.00	31.63	Horizontal
2	4882.0000	-	-	-	17.58	54.00	36.42	Horizontal
3	7323.0000	51.72	36.19	-45.40	42.51	74.00	31.49	Horizontal
4	7323.0000	-	-	-	17.72	54.00	36.28	Horizontal
5	9764.0000	47.92	37.86	-41.35	44.43	74.00	29.57	Horizontal
6	9764.0000	-	--	-	19.64	54.00	34.36	Horizontal



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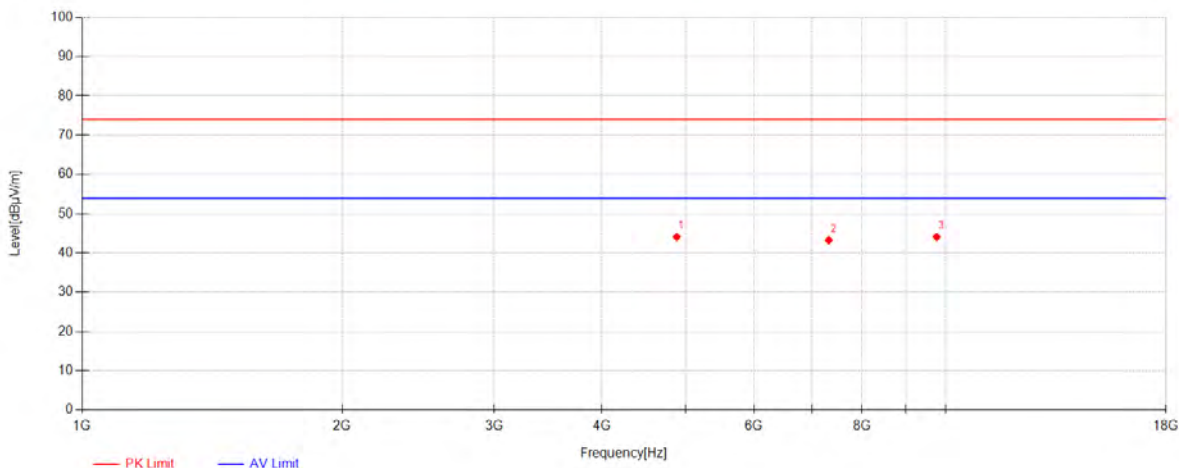
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4882.0000	59.97	31.12	-47.01	44.08	74.00	29.92	Vertical
2	4882.0000	-	-	-	19.29	54.00	34.71	Vertical
3	7323.0000	52.48	36.19	-45.40	43.27	74.00	30.73	Vertical
4	7323.0000	-	-	-	18.48	54.00	35.52	Vertical
5	9764.0000	47.58	37.86	-41.35	44.09	74.00	29.91	Vertical
6	9764.0000	-	-	-	19.30	54.00	34.70	Vertical



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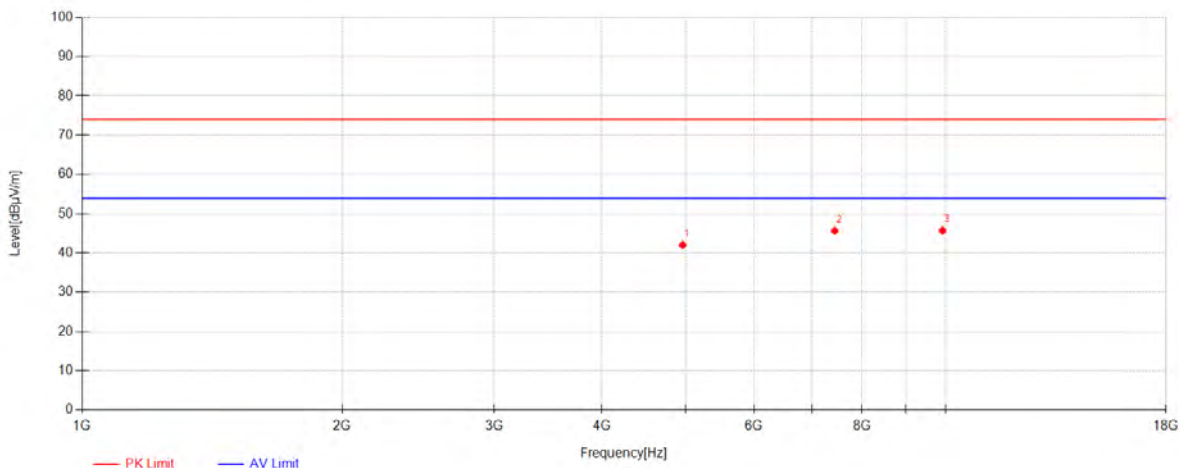


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802.GFSK_Channel 78



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4960.0000	57.87	31.31	-47.11	42.07	74.00	31.93	Horizontal
2	4960.0000	-	-	-	17.28	54.00	36.72	Horizontal
3	7440.0000	54.43	36.33	-45.08	45.68	74.00	28.32	Horizontal
4	7440.0000	-	-	-	20.89	54.00	33.11	Horizontal
5	9920.0000	48.30	38.22	-40.79	45.73	74.00	28.27	Horizontal
6	9920.0000	-	-	-	20.94	54.00	33.06	Horizontal



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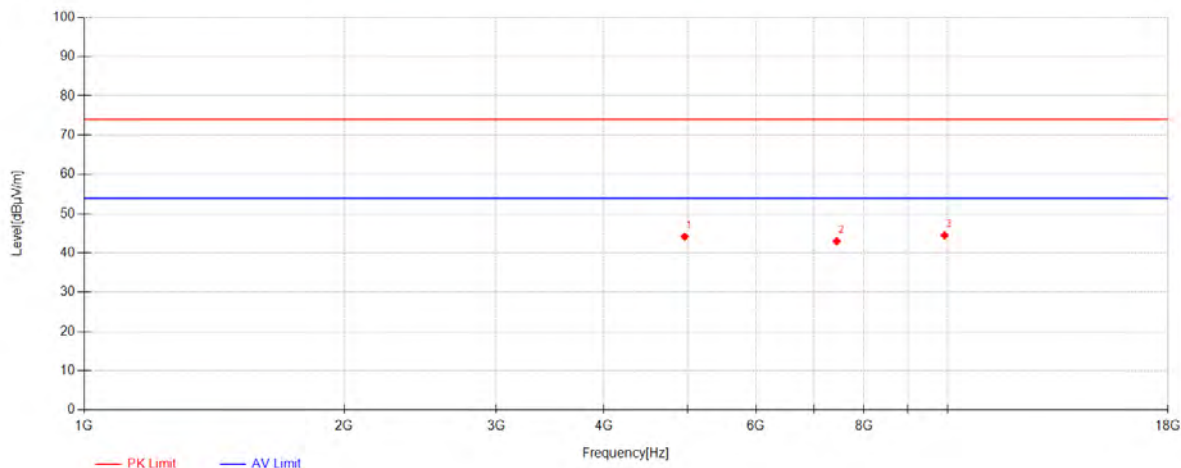
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4960.0000	59.97	31.31	-47.11	44.17	74.00	29.83	Vertical
2	4960.0000	-	-	-	19.38	54.00	34.62	Vertical
3	7440.0000	51.75	36.33	-45.08	43.00	74.00	31.00	Vertical
4	7440.0000	-	-	-	18.21	54.00	35.79	Vertical
5	9920.0000	47.08	38.22	-40.79	44.51	74.00	29.49	Vertical
6	9920.0000	-	-	-	19.72	54.00	34.28	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

$$\text{Level} = \text{Reading}(\text{dB}\mu\text{V}) + \text{AF}(\text{dB/m}) + \text{Factor}(\text{dB})$$

$$\text{AF} = \text{Antenna Factor}(\text{dB/m})$$

$$\text{Factor} = \text{Cable Factor}(\text{dB}) - \text{Preamplifier gain}(\text{dB})$$

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V/m}) - \text{Level}(\text{dB}\mu\text{V/m})$$
- All channels have been tested, but only the worst case data displayed in this report.



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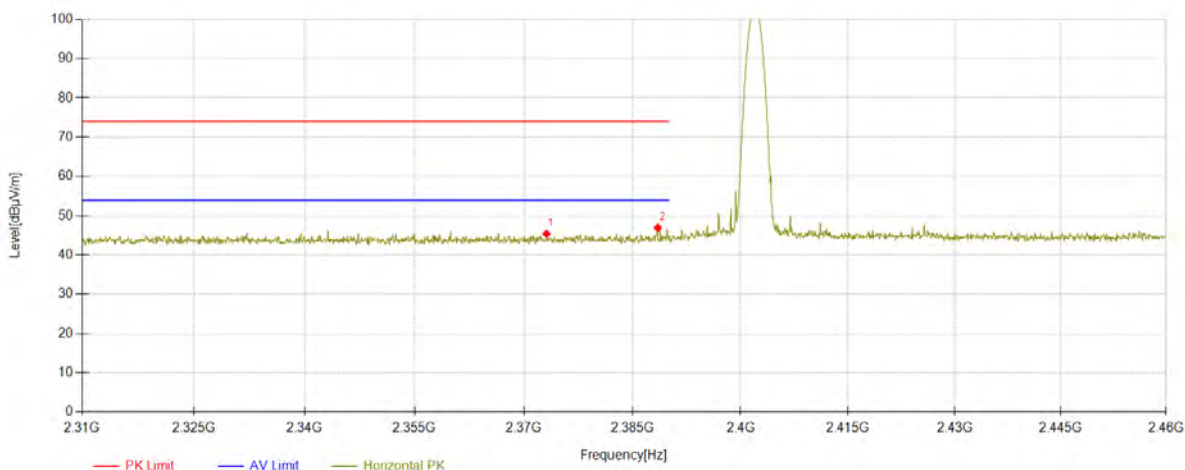


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Restricted bands around fundamental frequency

802.GFSK_Channel 00



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2373.1066	44.06	27.10	-25.74	45.42	74.00	28.58	Horizontal
2	2373.1066	-	-	-	20.63	54.00	33.37	Horizontal
3	2388.4892	45.50	27.13	-25.70	46.93	74.00	27.07	Horizontal
4	2388.4892	-	-	-	22.14	54.00	31.86	Horizontal



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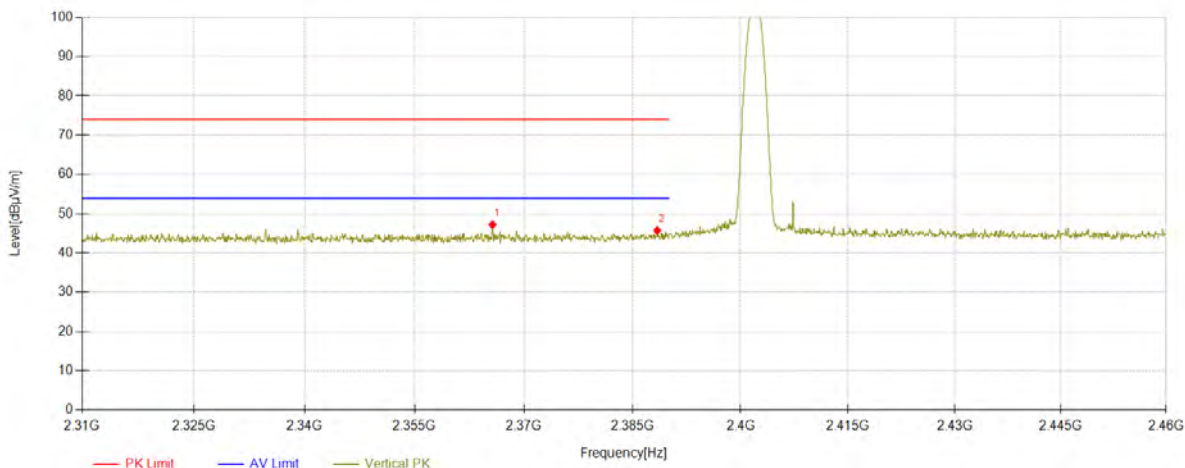


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802.GFSK_Channel 00



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2365.6778	45.87	27.08	-25.75	47.20	74.00	26.80	Vertical
2	2365.6778	-	-	-	22.41	54.00	31.59	Vertical
3	2388.4142	44.32	27.13	-25.70	45.75	74.00	28.25	Vertical
4	2388.4142	-	-	-	20.96	54.00	33.04	Vertical



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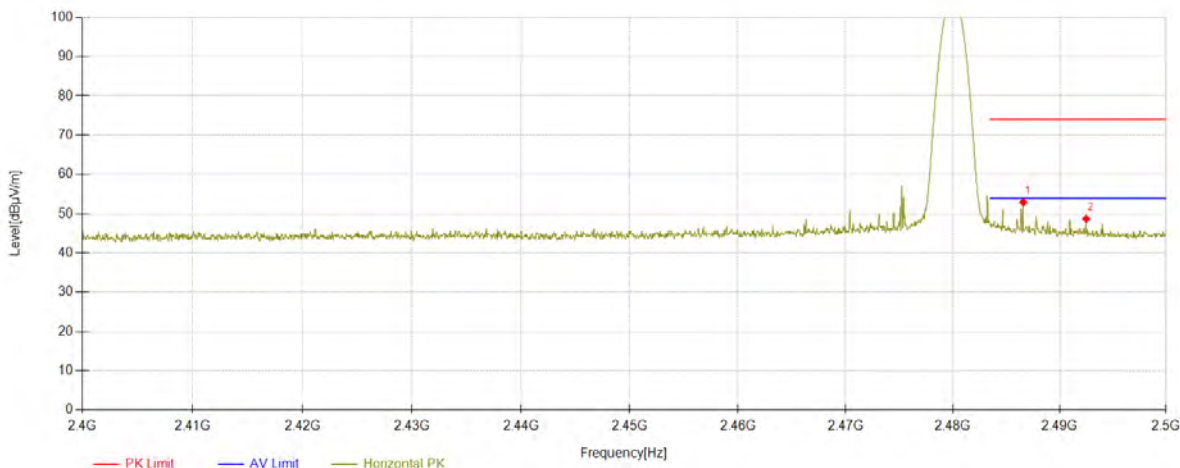
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802.GFSK_Channel 78



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2486.5933	50.65	27.37	-25.13	52.89	74.00	21.11	Horizontal
2	2486.5933	-	-	-	28.10	54.00	25.90	Horizontal
3	2492.4962	46.40	27.38	-25.09	48.69	74.00	25.31	Horizontal
4	2492.4962	-	-	-	23.90	54.00	30.10	Horizontal



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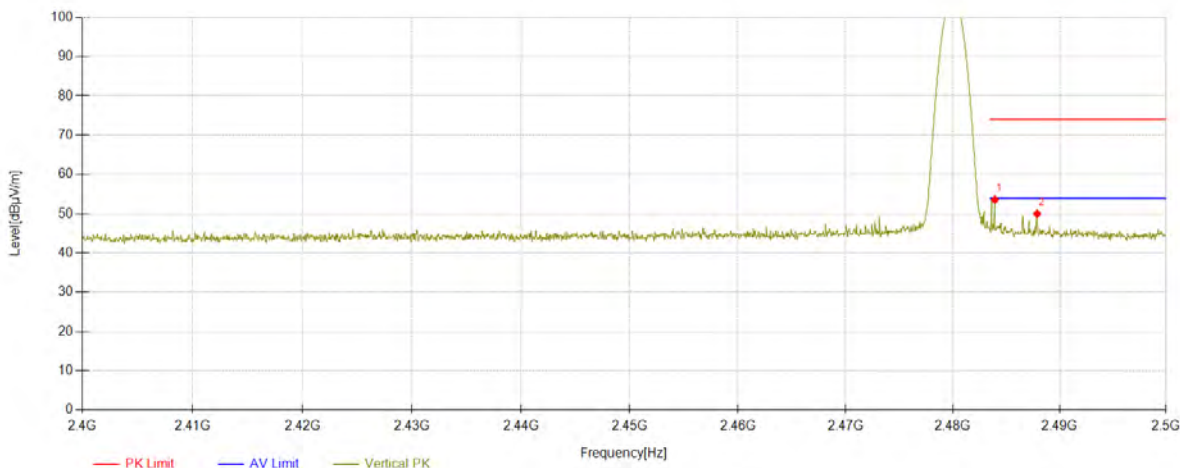
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802.GFSK_Channel 78



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.942	51.36	27.36	-25.14	53.58	74.00	20.42	Vertical
2	2483.942	-	-	-	28.79	54.00	25.21	Vertical
3	2487.8939	47.74	27.37	-25.12	49.99	74.00	24.01	Vertical
4	2487.8939	-	-	-	25.2	54.00	28.8	Vertical

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBμV/m) – Level(dBμV/m)

---End of Report---



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