

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600019502

Page: 1 of 93

TEST REPORT

Application No.: FYCR2606000195AT
Applicant: Milwaukee Electric Tool Corporation
Address of Applicant: 13135 West Lisbon Road, Brookfield, Wisconsin U.S.A. 53005
Manufacturer: Milwaukee Electric Tool Corporation
Address of Manufacturer: 13135 West Lisbon Road, Brookfield, Wisconsin U.S.A. 53005
EUT Name: Jobsite Speaker
Item No.: 2192-20
Trade Mark: 
FCC ID: P36-219220
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2026-01-12
Date of Test: 2026-01-27 to 2026-08-04
Date of Issue: 2026-08-05

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



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Report No.: FYCR260600019502

Page: 2 of 93

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-08-05		Original

Authorized for issue by:			
		Byron Liang	
		Byron Liang/Project Engineer	
Approved By		Tree Zhan	
		Tree Zhan/Reviewer	



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	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

N/A: Not applicable

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10-2020+COR.1-2023 Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10-2020+COR.1-2023 Section 6.10.5 & 7.8.8	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10-2020+COR.1-2023 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+COR.1-2023 Section 6.6 & 7.8.8	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Maximum Conducted Output Power		ANSI C63.10-2020+COR.1-2023 Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(1)	Pass
20dB Bandwidth		ANSI C63.10-2020+COR.1-2023 Section 6.9.2	47 CFR Part 15, Subpart C 15.247(a)(1)	Pass
Carrier Frequencies Separation		ANSI C63.10-2020+COR.1-2023 Section 7.8.2	47 CFR Part 15, Subpart C 15.247a(1)	Pass
Hopping Channel Number		ANSI C63.10-2020+COR.1-2023 Section 7.8.3	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass
Dwell Time		ANSI C63.10-2020+COR.1-2023 Section 7.8.4	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass
Conducted Band Edges Measurement		ANSI C63.10-2020+COR.1-2023 Section 7.8.7.2	47 CFR Part 15, Subpart C 15.247(d)	Pass



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600019502

Page: 4 of 93

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10-2020+COR.1-2023 Section 7.8.7	47 CFR Part 15, Subpart C 15.247(d)	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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3 Contents

	Page
1 Cover Page	1
2 Test Summary	3
3 Contents	5
4 General Information	7
4.1 Details of E.U.T.	7
4.2 Description of Support Units	7
4.3 Measurement Uncertainty	8
4.4 Test Location	8
4.5 Test Facility	9
4.6 Deviation from Standards	9
4.7 Abnormalities from Standard Conditions	9
5 Equipment List	10
6 Radio Spectrum Technical Requirement	13
6.1 Antenna Requirement	13
6.1.1 Test Requirement:	13
6.1.2 Conclusion	13
6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence	14
6.2.1 Test Requirement:	14
6.2.2 Conclusion	14
7 Radio Spectrum Matter Test Results	15
7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	15
7.1.1 E.U.T. Operation	15
7.1.2 Test Mode Description	15
7.1.3 Test Setup Diagram	16
7.1.4 Measurement Procedure and Data	16
7.2 Radiated Emissions which fall in the restricted bands	19
7.2.1 E.U.T. Operation	19
7.2.2 Test Mode Description	19
7.2.3 Test Setup Diagram	19
7.2.4 Measurement Procedure and Data	20
7.3 Radiated Spurious Emissions Below 1GHz	25
7.3.1 E.U.T. Operation	25
7.3.2 Test Mode Description	25
7.3.3 Test Setup Diagram	26
7.3.4 Measurement Procedure and Data	26
7.4 Radiated Spurious Emissions Above 1GHz	29
7.4.1 E.U.T. Operation	29
7.4.2 Test Mode Description	29
7.4.3 Test Setup Diagram	30



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600019502

Page: 6 of 93

7.4.4	Measurement Procedure and Data.....	31
7.5	Maximum Conducted Output Power	38
7.5.1	E.U.T. Operation	38
7.5.2	Test Mode Description	38
7.5.3	Test Setup Diagram	39
7.5.4	Measurement Procedure and Data.....	39
7.6	20dB Bandwidth	40
7.6.1	E.U.T. Operation	40
7.6.2	Test Mode Description	40
7.6.3	Test Setup Diagram	40
7.6.4	Measurement Procedure and Data.....	40
7.7	Carrier Frequencies Separation	41
7.7.1	E.U.T. Operation	41
7.7.2	Test Mode Description	41
7.7.3	Test Setup Diagram	41
7.7.4	Measurement Procedure and Data.....	41
7.8	Hopping Channel Number.....	42
7.8.1	E.U.T. Operation	42
7.8.2	Test Mode Description	42
7.8.3	Test Setup Diagram	42
7.8.4	Measurement Procedure and Data.....	42
7.9	Dwell Time.....	43
7.9.1	E.U.T. Operation	43
7.9.2	Test Mode Description	43
7.9.3	Test Setup Diagram	43
7.9.4	Measurement Procedure and Data.....	43
7.10	Conducted Band Edges Measurement	44
7.10.1	E.U.T. Operation.....	44
7.10.2	Test Mode Description.....	44
7.10.3	Test Setup Diagram.....	45
7.10.4	Measurement Procedure and Data	45
7.11	Conducted Spurious Emissions	46
7.11.1	E.U.T. Operation.....	46
7.11.2	Test Mode Description.....	46
7.11.3	Test Setup Diagram.....	47
7.11.4	Measurement Procedure and Data	47
8	Test Setup Photo	48
9	EUT Constructional Details (EUT Photos)	49
10	Appendix.....	50



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4 General Information

4.1 Details of E.U.T.

Power supply: USB input: DC 5V 3A
 Battery operation: DC 4V rechargeable battery
 Model: RLS B5
 Rated: DC 4V

Cable(s): USB Cable: about 0.6m unshielded

Test Voltage: AC 120 V 60 Hz powered by AC Adaptor refer to section 4.2

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: FPC antenna

Antenna Number: 1

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Note Book Computer	LENOVO	ThinkPad T490	PF1D1MVJ
AC Adaptor, supply by client.	Techtronic Industries GmbH	Model NO.: 4931 4817 37 INPUT: AC100-240V 50/60Hz 0.5A OUTPUT: DC 5.0V 3A 15W	/



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	±3.2dB
Radiated Emissions which fall in the restricted bands	± 4.7dB
Radiated Spurious Emissions Below 1GHz	± 5.7dB
Radiated Spurious Emissions Above 1GHz	± 4.7dB (1-18GHz); ± 4.7dB (18-40GHz)
Maximum Conducted Output Power	2.4G:± 0.80dB; 5G:± 0.43dB
20dB Bandwidth	2.4G: ± 0.34%; 5G:± 0.27%
Carrier Frequencies Separation	± 5.4 x 10 ⁻⁸
Dwell Time	± 0.28%
Conducted Band Edges Measurement	± 2.7dB
Conducted Spurious Emissions	± 2.7dB
Remark: The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty) or U_{ETSI}(ETSI Uncertainty). Emission decision rule: – Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report. – Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.	

4.4 Test Location

All tests were performed at:

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Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

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No tests were sub-contracted.



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4.5 Test Facility

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

• **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• **FCC –Designation Number: CN1322**

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

Designation Number: CN1322. Test Firm Registration Number: 718073

• **Innovation, Science and Economic Development Canada**

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

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	CRT	N/A	SEM001-14	2025-10-13	2028-10-12
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-01	2026-02-05	2027-02-04
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM033-02	2026-05-12	2027-05-11
LISN	Rohde & Schwarz	ENV216	SEM007-24	2026-02-05	2027-02-04
LISN	Rohde & Schwarz	ESH3-Z5	SEM007-22	2026-02-05	2027-02-04

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	CRT	N/A	SEM001-13	2025-10-13	2028-10-12
Signal Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2026-03-04	2027-03-03
Horn Antenna	Schwarzbeck	BBHA 9120 D	SEM003-54	2025-05-24	2028-05-23
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2025-07-29	2028-07-28
Pre-amplifier(0.4GHz-8GHz)	TST	LNA04080G30	SEM005-27	2026-02-05	2027-02-04
Pre-amplifier(1GHz-18GHz)	TST	LNA10180G45	SEM005-28	2026-02-05	2027-02-04
Pre-amplifier(1GHz-18GHz)	TST	LNA10180G60	SEM005-32	2026-04-04	2027-04-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM035-02	2026-05-12	2027-05-11
Coaxial Cable	SGS	N/A	SEM035-03	2026-05-12	2027-05-11



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600019502

Page: 11 of 93

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi- Anechoic Chambe	CRT	N/A	SEM001-13	2025-10-13	2028-10-12
MXE EMI receiver(20Hz-8.4GHz)	Agilent	N9038A	SEM004-05	2026-07-03	2027-07-02
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-26	2025-09-03	2027-09-02
Pre-Amplifier	HP	8447D	SEM005-02	2026-07-07	2027-07-06
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM035-01	2026-05-12	2027-05-11
Loop Antenna(9kHz-30MHz)	ETS-LINDGREN	6502	SEM003-43	2025-06-16	2027-06-15

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	CRT	N/A	SEM001-13	2025-10-13	2028-10-12
Signal Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2026-03-04	2027-03-03
Horn Antenna	Schwarzbeck	BBHA 9120 D	SEM003-54	2025-05-24	2028-05-23
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2025-07-29	2028-07-28
Pre-amplifier(0.4GHz-8GHz)	TST	LNA04080G30	SEM005-27	2026-02-05	2027-02-04
Pre-amplifier(1GHz-18GHz)	TST	LNA10180G45	SEM005-28	2026-02-05	2027-02-04
Pre-amplifier(1GHz-18GHz)	TST	LNA10180G60	SEM005-32	2026-04-04	2027-04-03
Pre-amplifier(18GHz-40GHz)	TST	LNA180400G40	SEM005-39	2026-04-29	2027-04-28
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM035-02	2026-05-12	2027-05-11
Coaxial Cable	SGS	N/A	SEM035-03	2026-05-12	2027-05-11



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600019502

Page: 12 of 93

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	CRT	N/A	SEM001-14	2025-10-13	2028-10-12
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2026-02-04	2027-02-03
MXA Signal Analyzer(10Hz-50GHz)	KEYSIGHT	N9020B	SEM004-24	2026-02-03	2027-02-02
MXA Signal Analyzer(20Hz-26.5GHz)	KEYSIGHT	N9020A	SEM004-25	2026-02-03	2027-02-02
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM037-01	2026-05-12	2027-05-11
Manual Step Attenuator	Agilent	8494B	SEM021-05	2026-02-02	2027-02-01
Manual Step Attenuator	Agilent	8496B	SEM021-06	2026-02-02	2027-02-01
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50-1	SEM021-09	2026-02-02	2027-02-01
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2026-02-03	2027-02-02
Signal Generator(9kHz-40GHz)	Agilent	N5173B	SEM006-05	2026-03-31	2027-03-30
Vector Signal Generator(100kHz-7.5GHz)	Rohde & Schwarz	SMW200A	SEM006-19	2026-07-06	2027-07-05
MXG Vector Signal Generator(100kHz-6GHz)	Agilent	N5182A	SEM006-21	2026-02-03	2027-02-02
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2026-02-03	2027-02-02
Radio Communication Analyzer	Anritsu	MT8821C	SEM010-04	2026-02-04	2027-02-03
Radio Communication Test Station	Anritsu	MT8000A	SZ-WRG-M-013	2026-04-28	2027-04-27

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/Temperature Indicator	deli	8838	SEM002-52	2026-07-08	2027-07-07
Humidity/Temperature Indicator	deli	8838	SEM002-53	2026-07-08	2027-07-07
Barometer	DUMAI	DYM3	SEM002-24	2026-07-10	2027-07-09



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.33 dBi.

Antenna location: Refer to internal photo.



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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.



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7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207
 Test Method: ANSI C63.10-2020+COR.1-2023 Section 6.2
 Test Engineer: Rex Liu
 Limit:

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz		

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C Humidity: 52.9 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

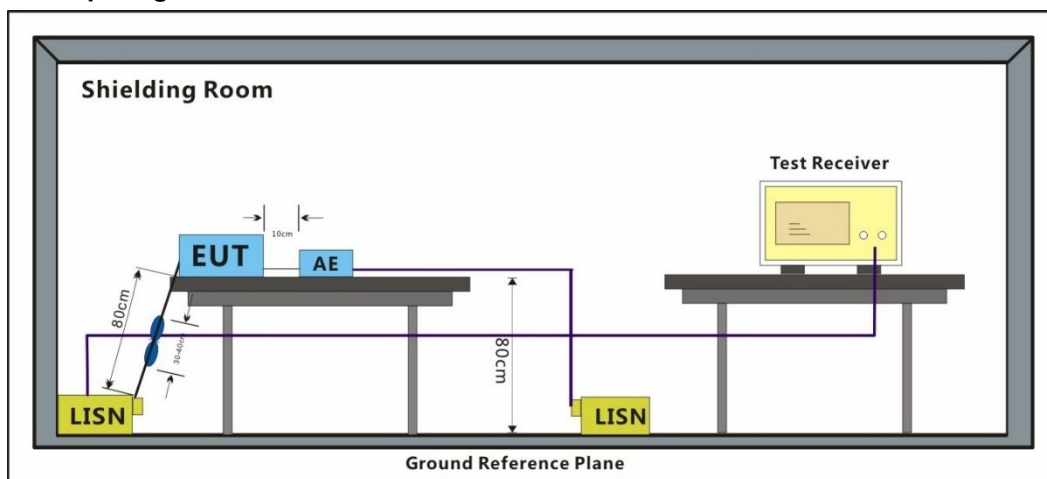
Pre-scan / Final test	Mode Code	Description
Final test	01	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

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

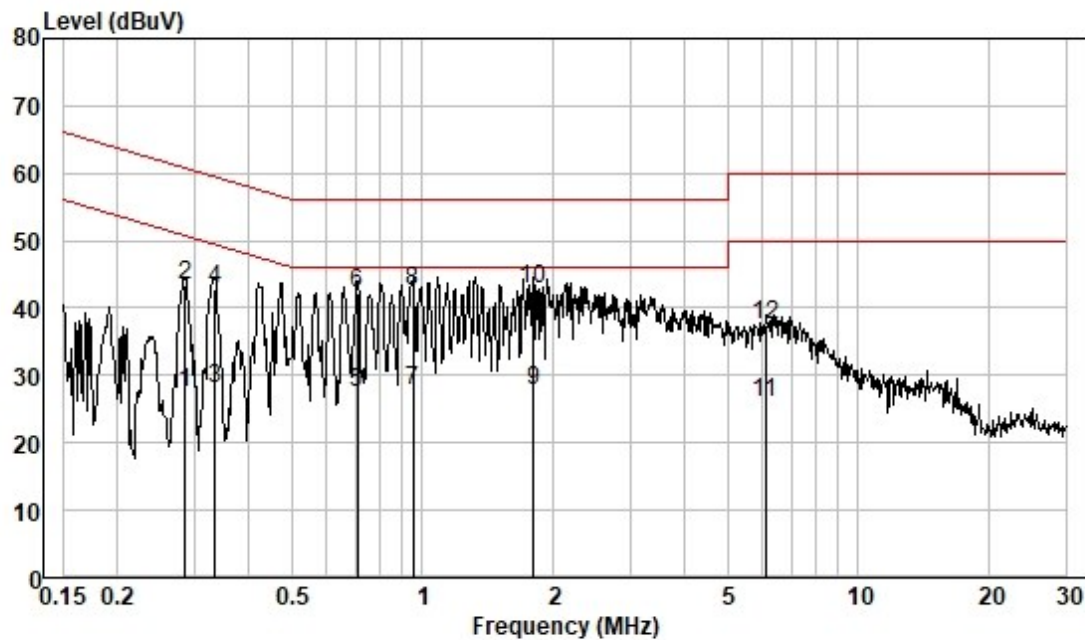


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Test Mode: 01; Line: Live line



Pol : LINE
Mode :
Model :
Power :

	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.285	17.80	0.04	9.56	27.40	50.68	-23.28	Average
2	0.285	33.77	0.04	9.56	43.37	60.68	-17.31	QP
3	0.334	18.56	0.04	9.57	28.17	49.35	-21.18	Average
4	0.334	33.34	0.04	9.57	42.95	59.35	-16.40	QP
5	0.708	17.79	0.06	9.60	27.45	46.00	-18.55	Average
6	0.708	32.69	0.06	9.60	42.35	56.00	-13.65	QP
7	0.953	18.07	0.07	9.57	27.71	46.00	-18.29	Average
8	0.953	32.81	0.07	9.57	42.45	56.00	-13.55	QP
9	1.800	18.00	0.12	9.61	27.73	46.00	-18.27	Average
10	1.800	33.05	0.12	9.61	42.78	56.00	-13.22	QP
11	6.121	16.15	0.21	9.64	26.00	50.00	-24.00	Average
12	6.121	27.54	0.21	9.64	37.39	60.00	-22.61	QP

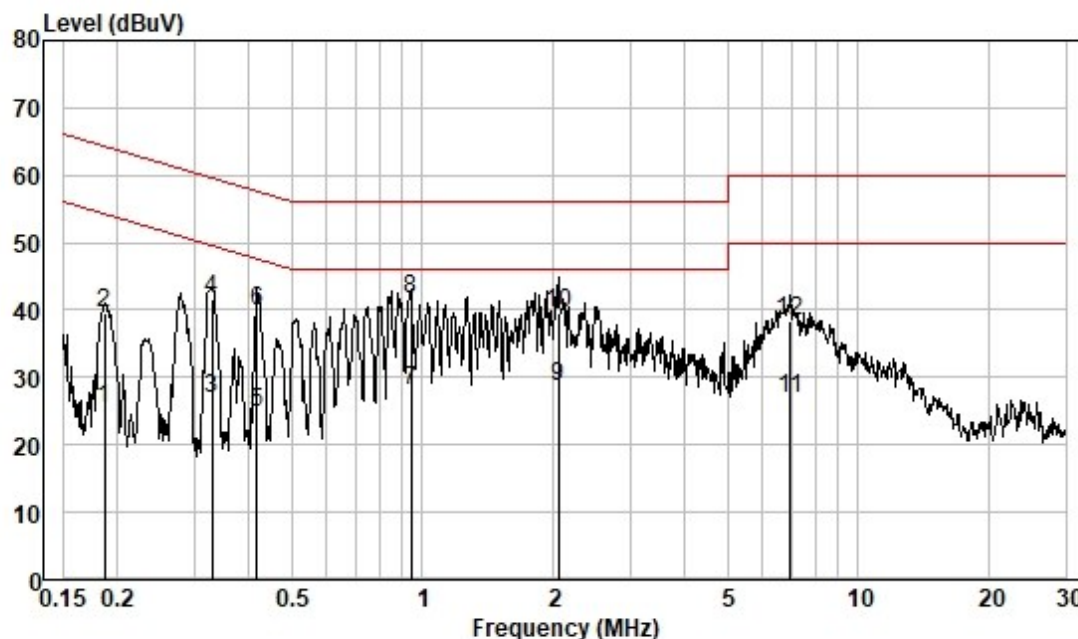


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Test Mode: 01; Line: Neutral Line



Pol : NEUTRAL
Mode :
Model :
Power :

	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.186	15.83	0.04	9.55	25.42	54.20	-28.78	Average
2	0.186	29.97	0.04	9.55	39.56	64.20	-24.64	QP
3	0.329	17.25	0.04	9.52	26.81	49.49	-22.68	Average
4	0.329	32.14	0.04	9.52	41.70	59.49	-17.79	QP
5	0.417	15.21	0.05	9.55	24.81	47.51	-22.70	Average
6	0.417	30.29	0.05	9.55	39.89	57.51	-17.62	QP
7	0.943	18.39	0.07	9.55	28.01	46.00	-17.99	Average
8	0.943	31.89	0.07	9.55	41.51	56.00	-14.49	QP
9	2.055	18.94	0.13	9.53	28.60	46.00	-17.40	Average
10	2.055	29.97	0.13	9.53	39.63	56.00	-16.37	QP
11	6.988	16.97	0.22	9.65	26.84	50.00	-23.16	Average
12	6.988	28.51	0.22	9.65	38.38	60.00	-21.62	QP



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7.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10-2020+COR.1-2023 Section 6.10.5 & 7.8.8
 Test Engineer: Rex Liu
 Limit:
 Test Distance: 3 m

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

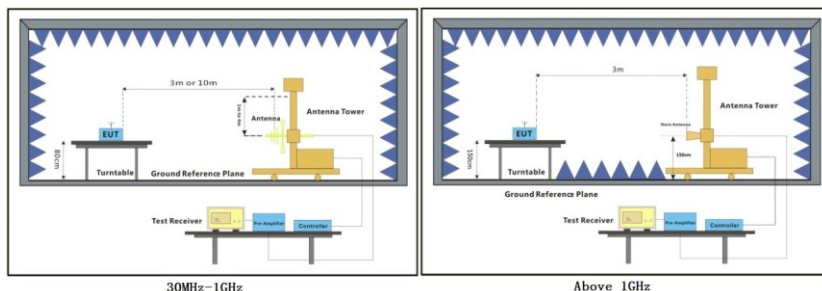
7.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 25.9 °C Humidity: 59.7 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	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	

7.2.3 Test Setup Diagram



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

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

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

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.

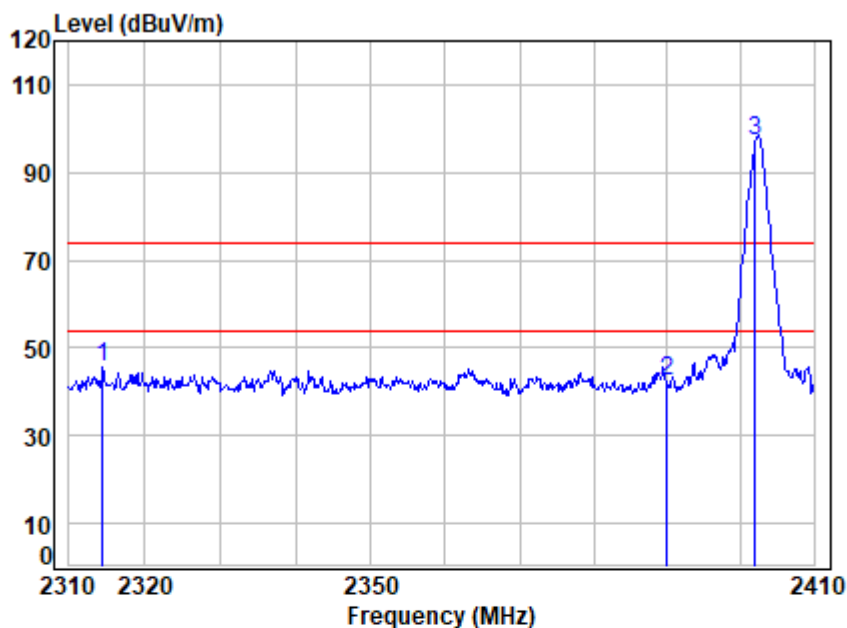


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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : NEW

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2314.409	7.01	27.13	33.00	44.26	45.40	74.00	-28.60	peak	0.00
2	2390.000	7.04	27.12	32.96	41.21	42.41	74.00	-31.59	peak	0.00
3 pp	2402.000	7.04	27.12	32.95	96.16	97.37	74.00	23.37	peak	0.00

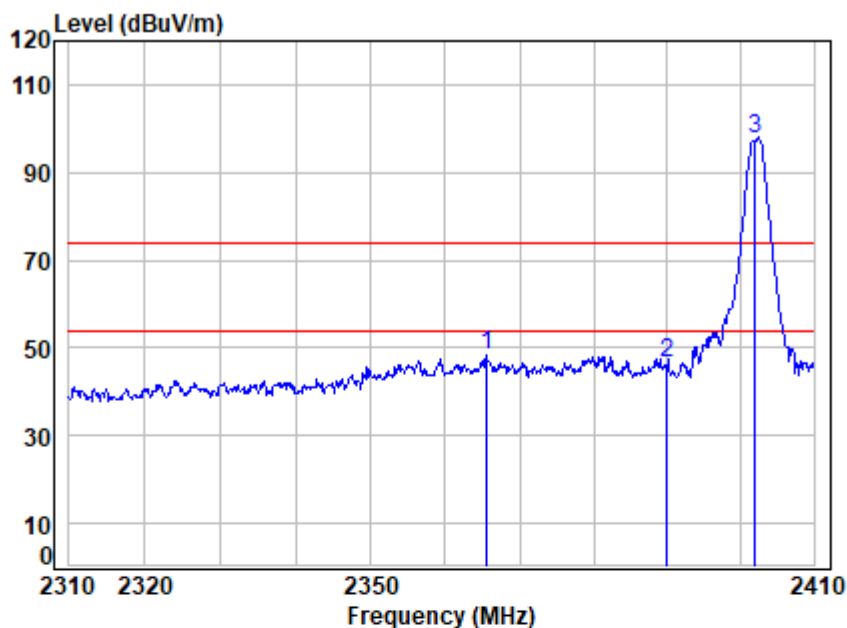


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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL

Job No :

Mode :

	Freq	Cable	Ant	Preamp	Read	Limit	Over		Aux
		Loss	Factor	Factor	Level	Line	Limit	Remark	Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	2365.478	7.03	27.17	32.97	46.95	48.18	74.00	-25.82 peak	0.00
2	2390.000	7.04	27.12	32.96	45.35	46.55	74.00	-27.45 peak	0.00
3 pp	2402.000	7.04	27.12	32.95	96.27	97.48	74.00	23.48 peak	0.00



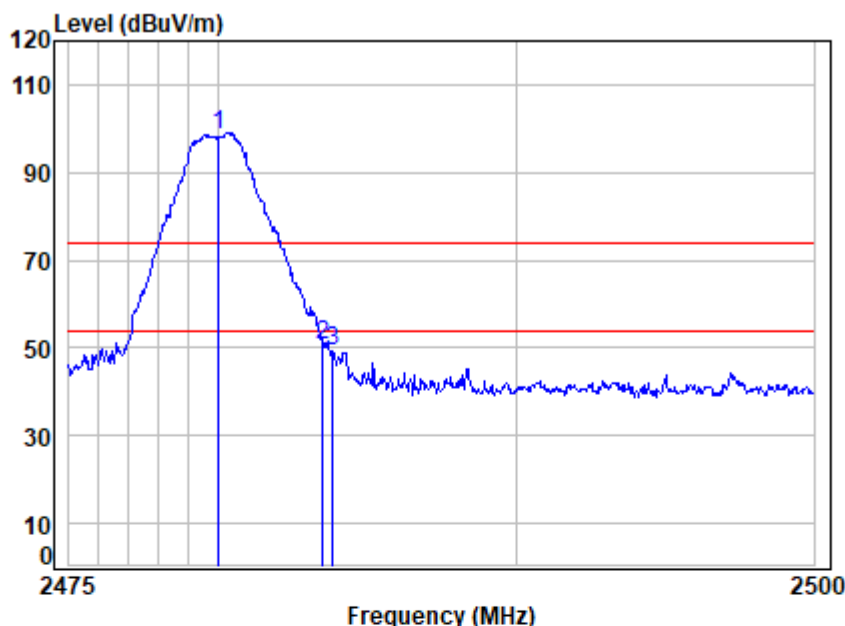
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : BT

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2480.000	7.07	27.68	32.91	96.58	98.42	74.00	24.42	peak	0.00
2	2483.500	7.07	27.70	32.91	49.01	50.87	74.00	-23.13	peak	0.00
3	2483.821	7.07	27.70	32.91	47.28	49.14	74.00	-24.86	peak	0.00

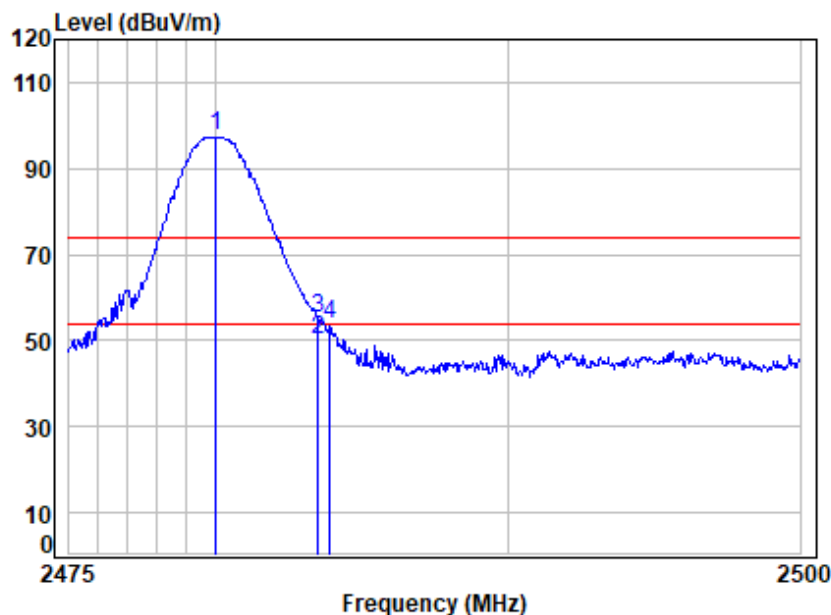


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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL

Job No :
Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 2480.000	7.07	27.68	32.91	95.94	97.78	74.00	23.78	peak	0.00
2	av 2483.500	7.07	27.70	32.91	48.25	50.11	54.00	-3.89	Average	0.00
3	2483.500	7.07	27.70	32.91	53.48	55.34	74.00	-18.66	peak	0.00
4	2483.850	7.07	27.70	32.91	51.82	53.68	74.00	-20.32	peak	0.00



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7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10-2020+COR.1-2023 Section 6.4,6.5
 Test Engineer: Rex Liu
 Limit:
 Test Distance: 3m

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

Note

- 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.
2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Limit = The limit above - Aux Factor (if applicable)

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0 °C Humidity: 52.9 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

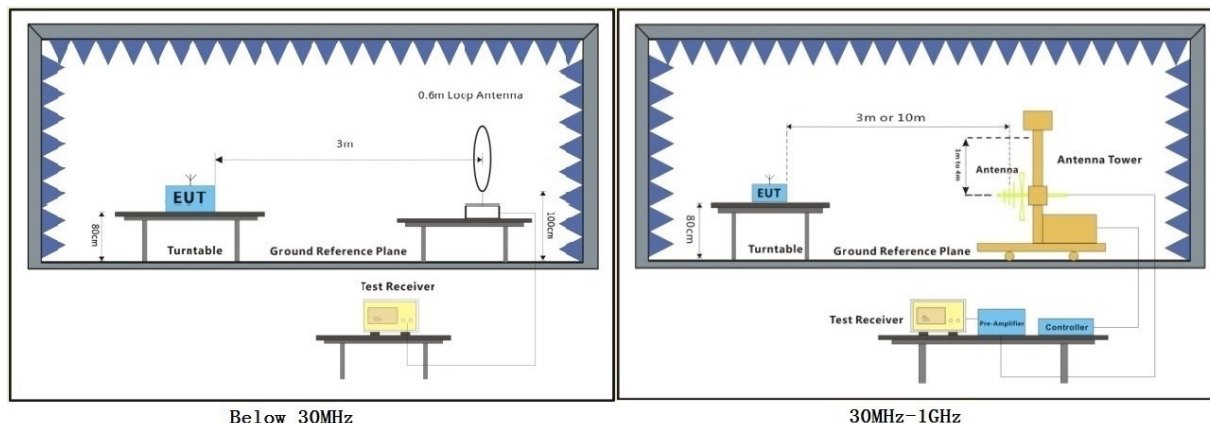
Pre-scan / Mode	Description
Final test Code	
Final test 01	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

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

Remark:

- 1 Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
2. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.

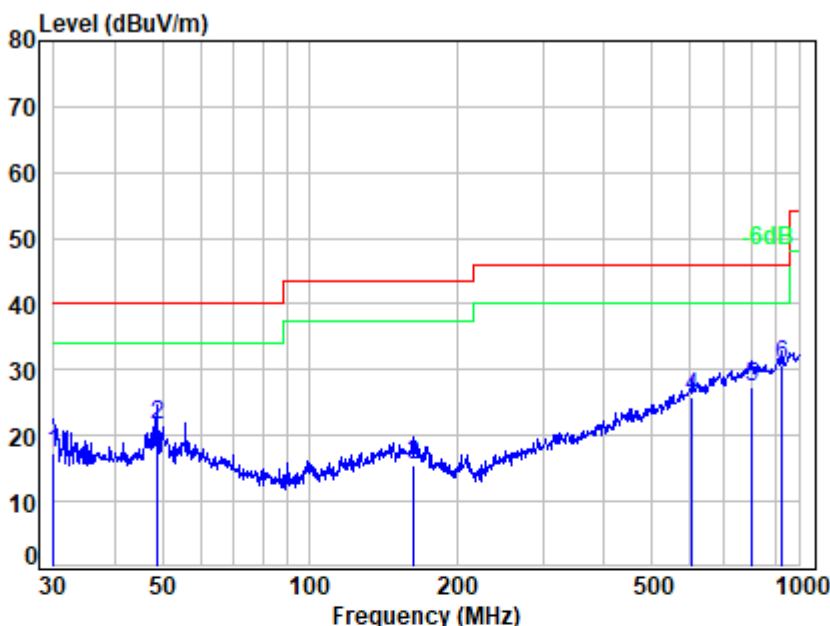


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Test Mode: 01; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No :
Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.000	0.67	16.66	26.13	26.18	17.38	40.00	-22.62	QP
2	48.843	0.77	17.78	26.10	29.27	21.72	40.00	-18.28	QP
3	162.611	1.13	17.24	25.59	22.86	15.64	43.50	-27.86	QP
4	605.659	3.43	24.16	26.56	24.69	25.72	46.00	-20.28	QP
5	801.786	3.45	26.86	26.50	23.42	27.23	46.00	-18.77	QP
6	922.516	2.34	27.91	26.37	26.82	30.70	46.00	-15.30	QP

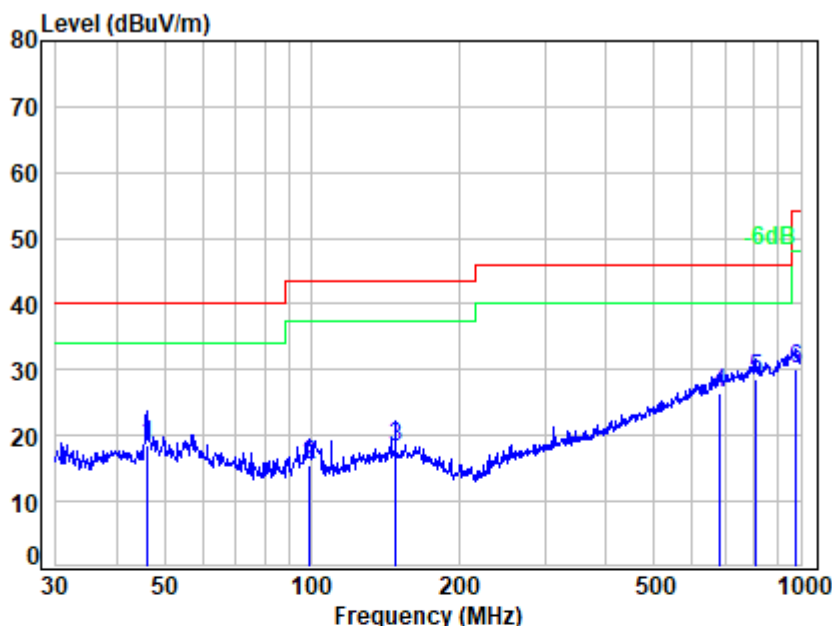


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Test Mode: 01; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No :
Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	46.016	0.63	17.68	26.11	26.42	18.62	40.00	-21.38	QP
2	98.487	0.63	12.55	25.91	28.09	15.36	43.50	-28.14	QP
3	148.441	1.31	17.40	25.65	25.19	18.25	43.50	-25.25	QP
4	682.348	1.70	24.98	26.53	26.43	26.58	46.00	-19.42	QP
5	807.429	3.40	26.84	26.49	24.89	28.64	46.00	-17.36	QP
6	972.337	2.84	27.96	26.33	25.54	30.01	54.00	-23.99	QP



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7.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10-2020+COR.1-2023 Section 6.6 & 7.8.8
 Test Engineer: Rex Liu
 Limit:

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

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(1/3) = -9.54\text{dB}$ (for 1m test distance).

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C Humidity: 54.6 % RH Atmospheric Pressure: 1024 mbar

7.4.2 Test Mode Description

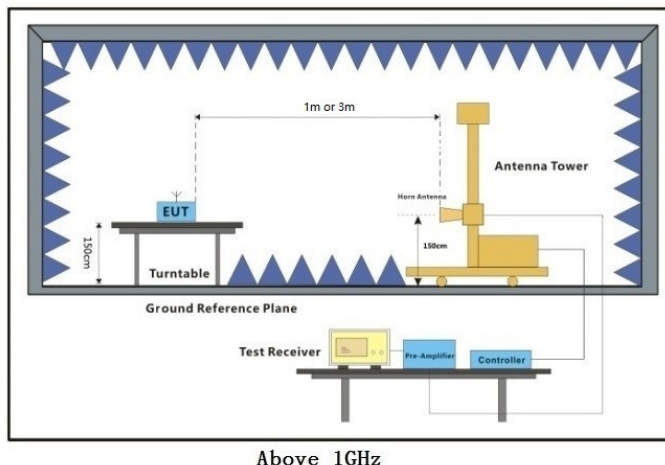
Pre-scan / Final test	Mode Code	Description
Final test	01	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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7.4.3 Test Setup Diagram



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7.4.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.
- b. The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.
- c. The antenna height is varied from 1m to 4m 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 1m to 4m 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. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- g. 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.
- h. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.
2. 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.
3. For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.
4. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s).

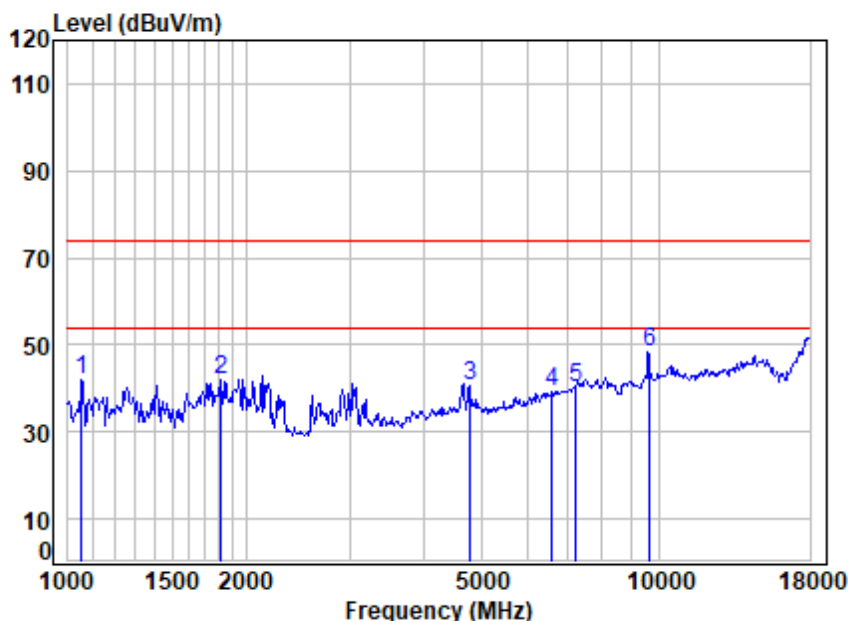


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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1053.404	3.03	25.13	53.22	66.91	41.85	74.00	-32.15	Peak	0.00
2	1808.551	6.10	25.13	53.46	64.23	42.00	74.00	-32.00	Peak	0.00
3	4804.000	8.26	31.98	53.15	53.30	40.39	74.00	-33.61	Peak	0.00
4	6602.265	8.69	35.07	53.24	48.87	39.39	74.00	-34.61	Peak	0.00
5	7206.000	8.83	36.06	53.42	48.80	40.27	74.00	-33.73	Peak	0.00
6 pp	9608.000	11.93	38.52	54.02	52.03	48.46	74.00	-25.54	Peak	0.00

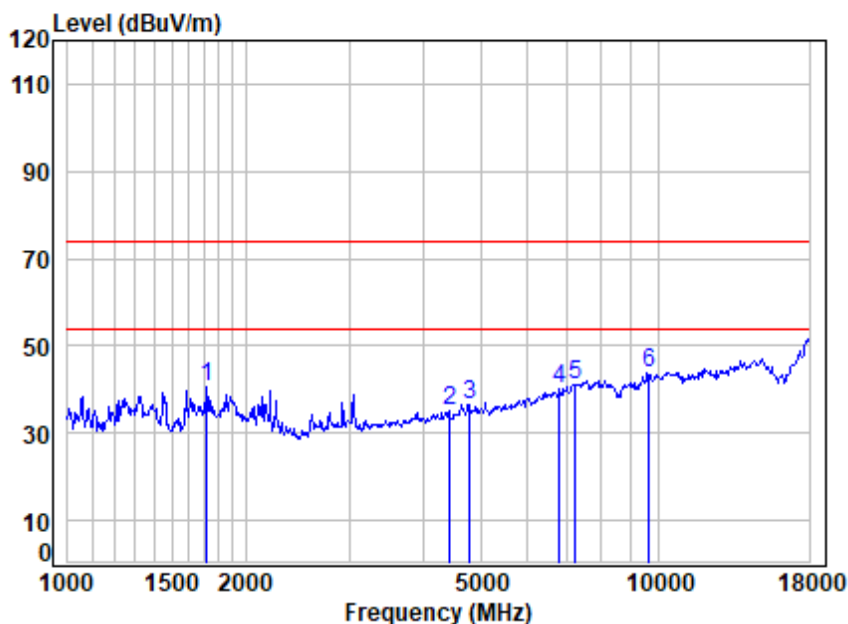


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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1716.864	5.70	25.27	53.43	63.13	40.67	74.00	-33.33	Peak	0.00
2	4430.628	8.10	31.22	53.04	48.64	34.92	74.00	-39.08	Peak	0.00
3	4804.000	8.26	31.98	53.15	49.57	36.66	74.00	-37.34	Peak	0.00
4	6795.879	8.62	35.30	53.22	49.27	39.97	74.00	-34.03	Peak	0.00
5	7206.000	8.83	36.06	53.42	49.67	41.14	74.00	-32.86	Peak	0.00
6 pp	9608.000	11.93	38.52	54.02	47.46	43.89	74.00	-30.11	Peak	0.00

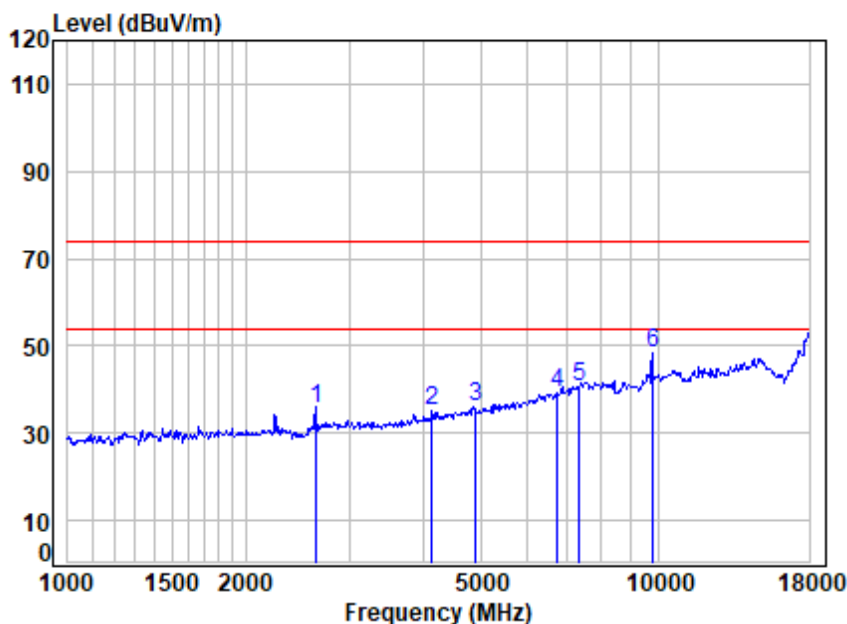


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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2633.397	7.15	28.03	53.09	53.51	35.60	74.00	-38.40	Peak	0.00
2	4133.699	8.02	30.54	52.94	49.65	35.27	74.00	-38.73	Peak	0.00
3	4882.000	8.29	32.08	53.17	48.99	36.19	74.00	-37.81	Peak	0.00
4	6717.762	8.65	35.11	53.23	48.76	39.29	74.00	-34.71	Peak	0.00
5	7323.000	8.99	36.15	53.54	49.17	40.77	74.00	-33.23	Peak	0.00
6 pp	9764.000	11.90	38.33	54.05	52.27	48.45	74.00	-25.55	Peak	0.00

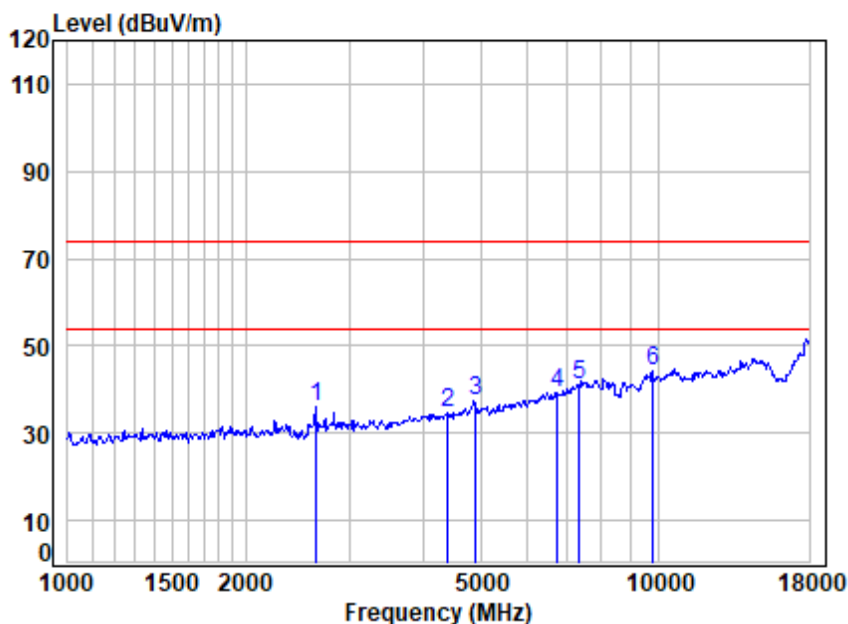


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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Condition: 3m HORIZONTAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2633.397	7.15	28.03	53.09	53.93	36.02	74.00	-37.98	Peak	0.00
2	4405.090	8.09	31.37	53.03	48.20	34.63	74.00	-39.37	Peak	0.00
3	4882.000	8.29	32.08	53.17	50.41	37.61	74.00	-36.39	Peak	0.00
4	6717.762	8.65	35.11	53.23	48.82	39.35	74.00	-34.65	Peak	0.00
5	7323.000	8.99	36.15	53.54	49.63	41.23	74.00	-32.77	Peak	0.00
6 pp	9764.000	11.90	38.33	54.05	48.24	44.42	74.00	-29.58	Peak	0.00

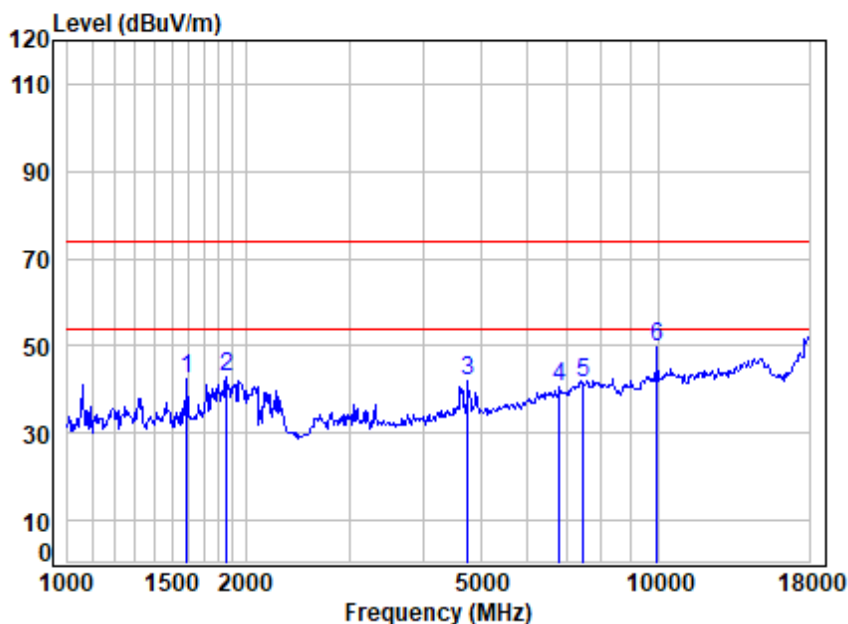


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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1587.975	5.09	25.10	53.40	65.53	42.32	74.00	-31.68	Peak	0.00
2	1856.215	6.30	25.39	53.47	64.78	43.00	74.00	-31.00	Peak	0.00
3	4748.888	8.23	32.01	53.13	54.98	42.09	74.00	-31.91	Peak	0.00
4	6795.879	8.62	35.30	53.22	49.79	40.49	74.00	-33.51	Peak	0.00
5	7440.000	9.14	36.90	53.66	49.05	41.43	74.00	-32.57	Peak	0.00
6 pp	9920.000	11.86	38.86	54.08	53.21	49.85	74.00	-24.15	Peak	0.00



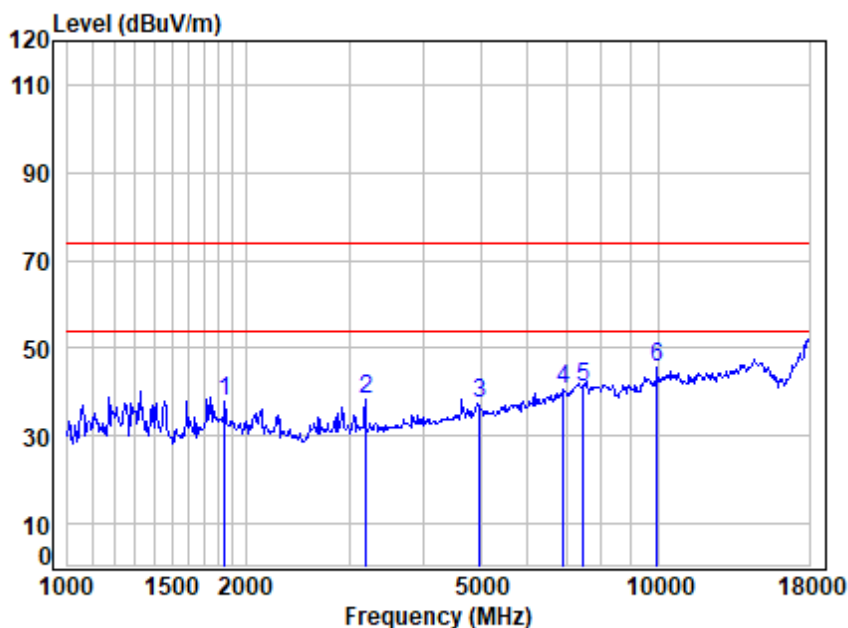
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL

Job No :

Mode :

	Freq	Cable	Ant	Preamp	Read	Limit	Over		Aux
	MHz	Loss	Factor	Factor	Level	Line	Limit	Remark	Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	1845.516	6.26	25.28	53.47	59.84	37.91	74.00	-36.09 Peak	0.00
2	3186.869	7.43	29.20	52.90	54.45	38.18	74.00	-35.82 Peak	0.00
3	4960.000	8.32	32.26	53.19	50.16	37.55	74.00	-36.45 Peak	0.00
4	6914.763	8.58	35.61	53.21	49.44	40.42	74.00	-33.58 Peak	0.00
5	7440.000	9.14	36.90	53.66	48.82	41.20	74.00	-32.80 Peak	0.00
6 pp	9920.000	11.86	38.86	54.08	48.95	45.59	74.00	-28.41 Peak	0.00



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7.5 Maximum Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(1)
 Test Method: ANSI C63.10-2020+COR.1-2023 Section 7.8.5
 Test Engineer: Rex Liu
 Limit:

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 47.1 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

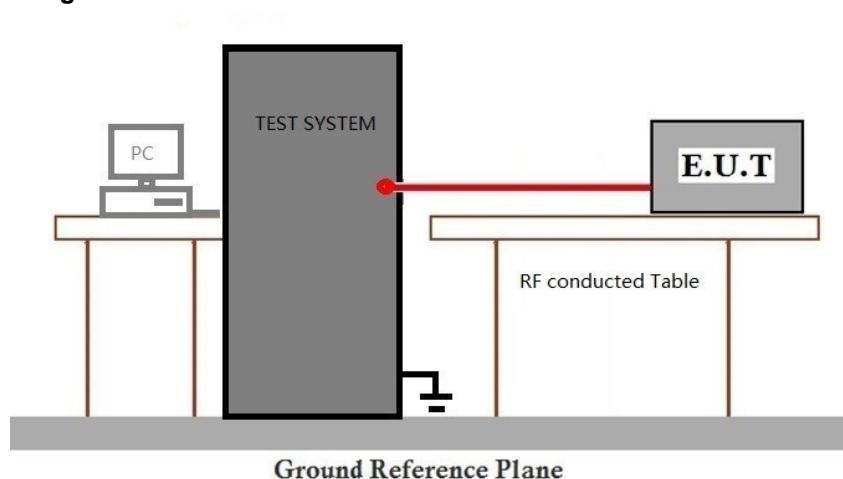
Pre-scan / Mode	Description
Final test Code	
Final test 01	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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7.6 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247(a)(1)
 Test Method: ANSI C63.10-2020+COR.1-2023 Section 6.9.2
 Test Engineer: Rex Liu

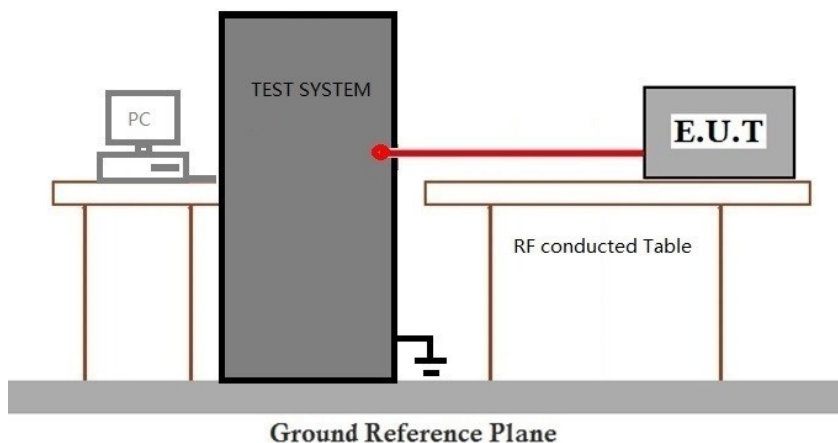
7.6.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.5 °C Humidity: 47.1 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 01	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.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 Carrier Frequencies Separation

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)
 Test Method: ANSI C63.10-2020+COR.1-2023 Section 7.8.2
 Test Engineer: Rex Liu
 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.

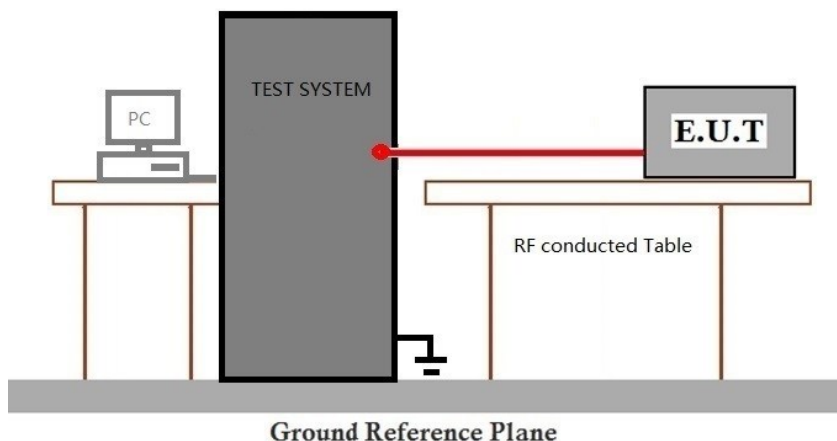
7.7.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.5 °C Humidity: 47.1 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 02	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



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7.8 Hopping Channel Number

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)
 Test Method: ANSI C63.10-2020+COR.1-2023 Section 7.8.3
 Test Engineer: Rex Liu
 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

7.8.1 E.U.T. Operation

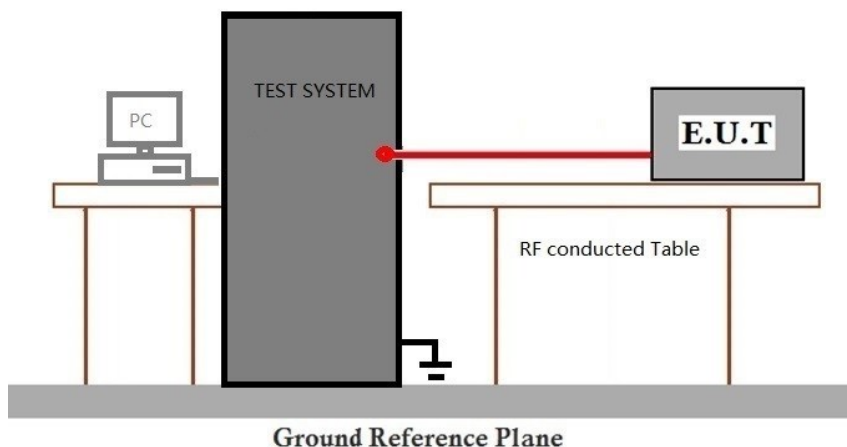
Operating Environment:

Temperature: 23.5 °C Humidity: 47.1 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 02	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

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7.9 Dwell Time

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)
 Test Method: ANSI C63.10-2020+COR.1-2023 Section 7.8.4
 Test Engineer: Rex Liu
 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

7.9.1 E.U.T. Operation

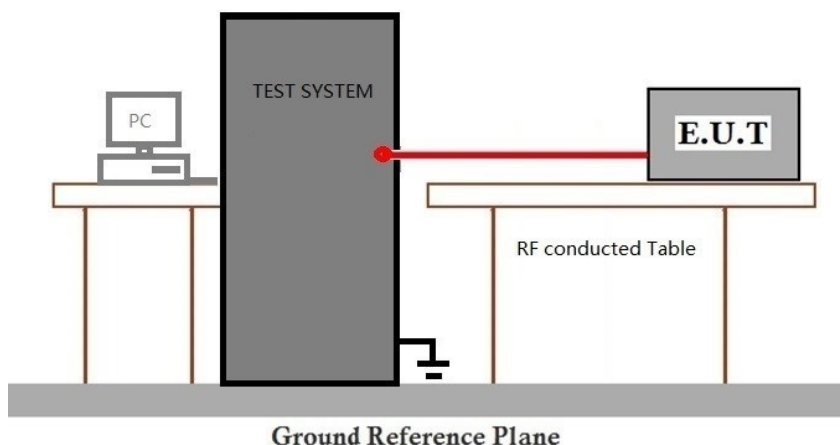
Operating Environment:

Temperature: 23.5 °C Humidity: 47.1 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 02	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



7.9.4 Measurement Procedure and Data

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7.10 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
 Test Method: ANSI C63.10-2020+COR.1-2023 Section 7.8.7.2
 Test Engineer: Rex Liu
 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: 23.5 °C Humidity: 47.1 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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	02	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.

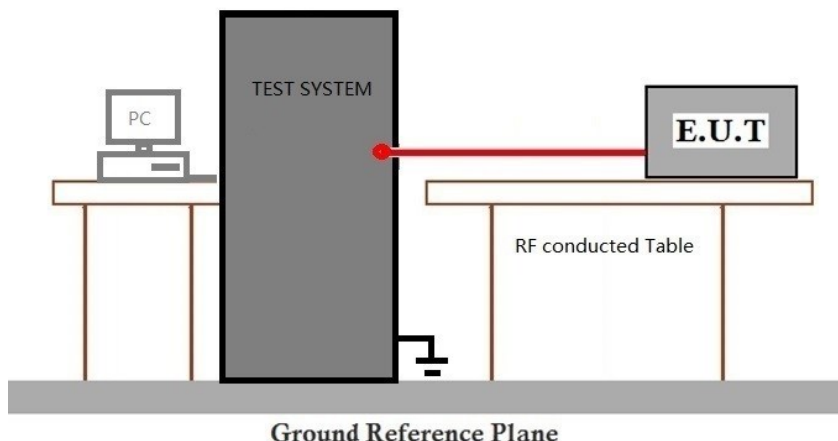


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7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.11 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
 Test Method: ANSI C63.10-2020+COR.1-2023 Section 7.8.7
 Test Engineer: Rex Liu
 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)).

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 47.1 % RH Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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.

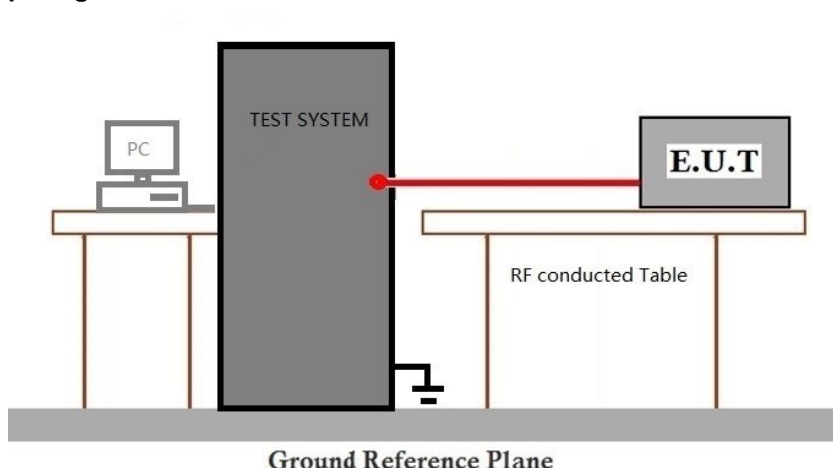


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7.11.3 Test Setup Diagram



7.11.4 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 FYCR260600019502



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9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for FYCR2606000195AT



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10 Appendix

1. Bandwidth

1.1 Test Result

1.1.1 99% Occupied Bandwidth

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.824	/	Pass
		2441	DH5	1	0.829	/	Pass
		2480	DH5	1	0.856	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.139	/	Pass
		2441	2DH5	1	1.155	/	Pass
		2480	2DH5	1	1.169	/	Pass
8DPSK	SISO	2402	3DH5	1	1.118	/	Pass
		2441	3DH5	1	1.118	/	Pass
		2480	3DH5	1	1.178	/	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	0.870	/	Pass
		2441	DH5	1	0.869	/	Pass
		2480	DH5	1	0.953	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.261	/	Pass
		2441	2DH5	1	1.258	/	Pass
		2480	2DH5	1	1.283	/	Pass
8DPSK	SISO	2402	3DH5	1	1.202	/	Pass
		2441	3DH5	1	1.201	/	Pass
		2480	3DH5	1	1.300	/	Pass



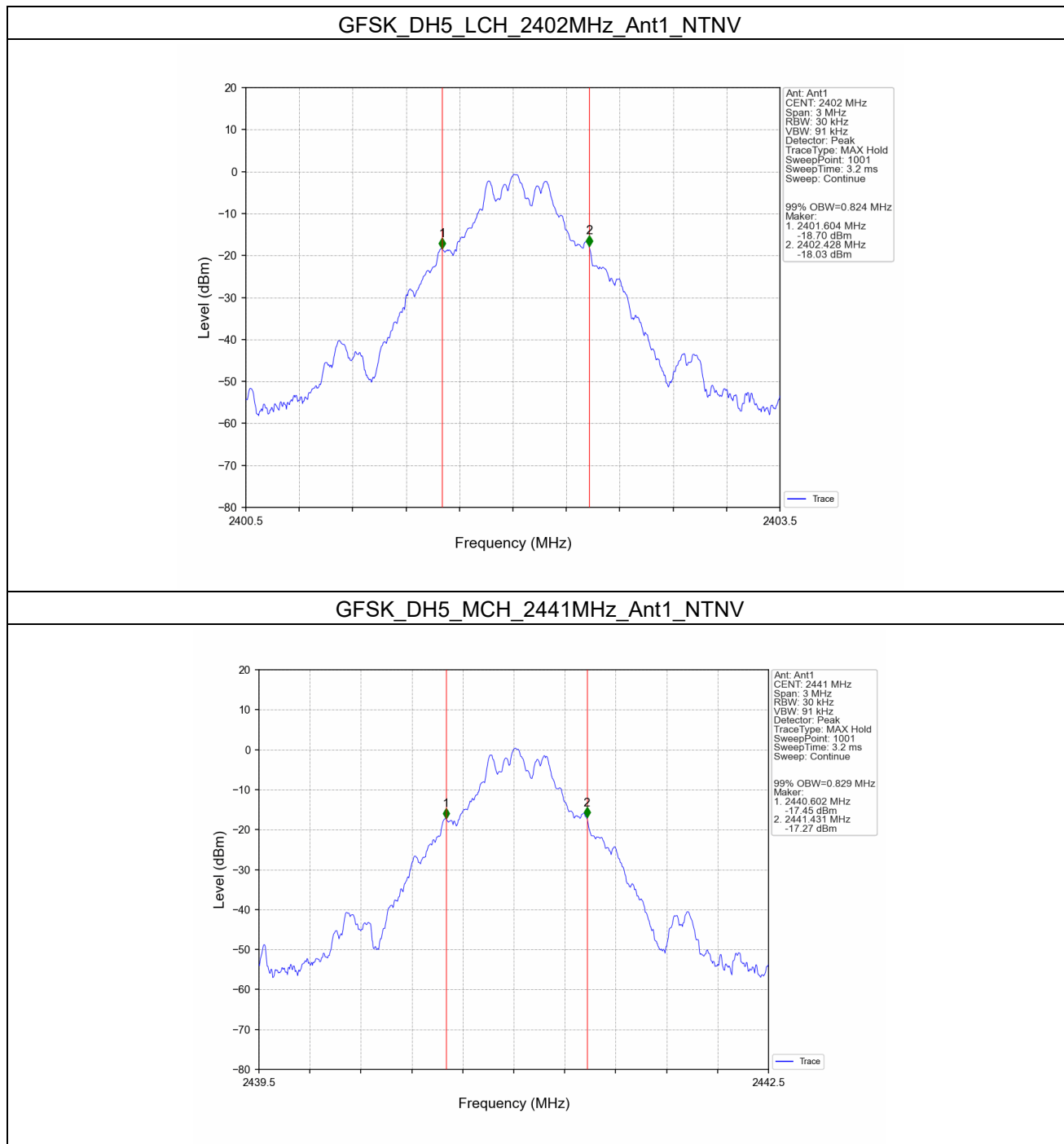
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1.2 Test Graph

1.2.1 OBW

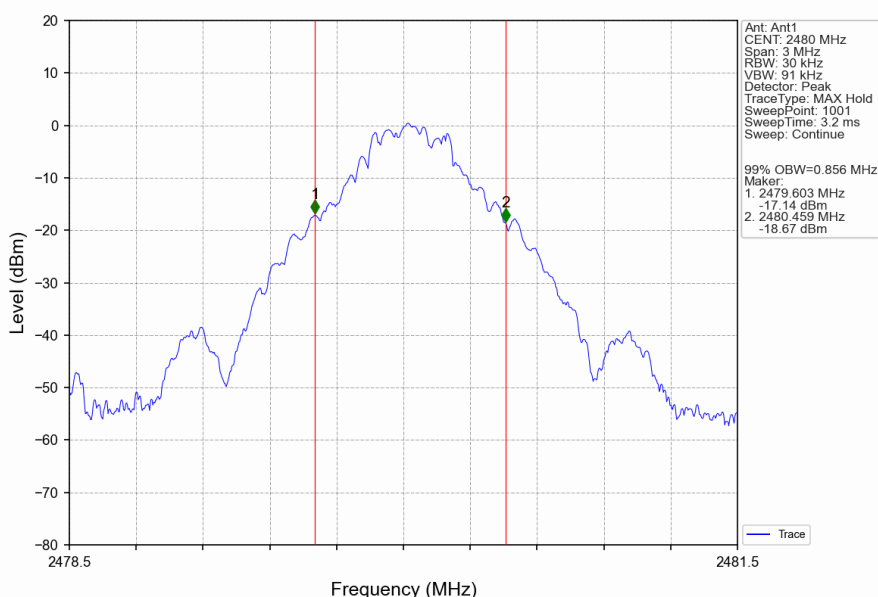


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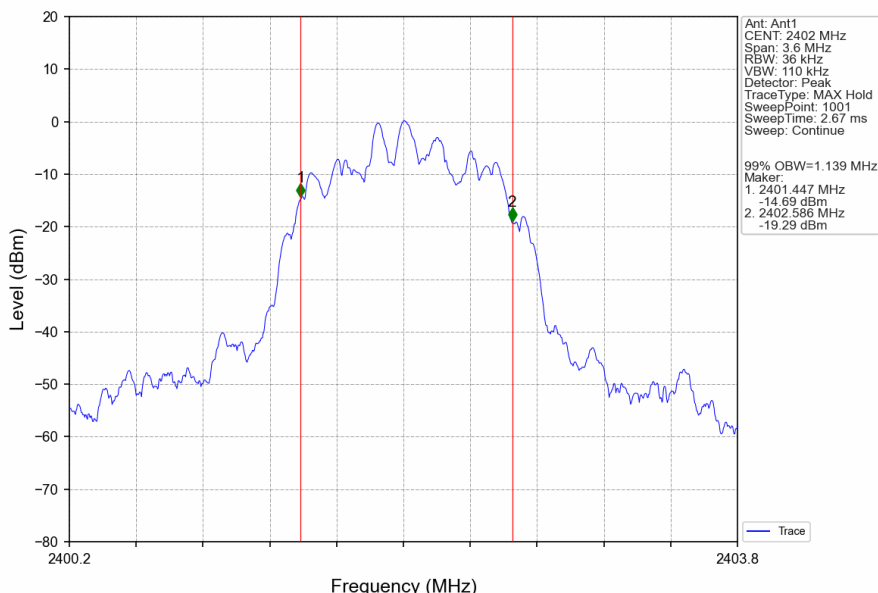
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

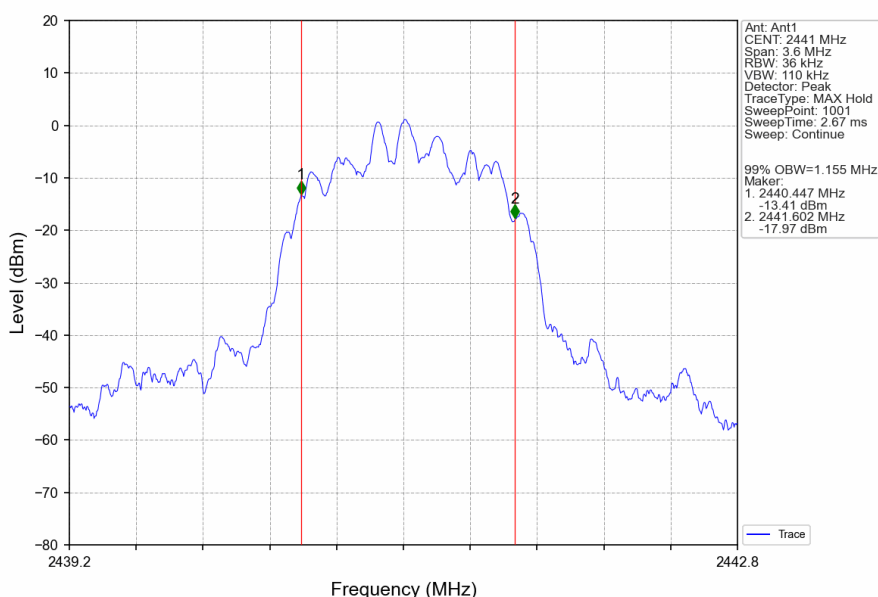


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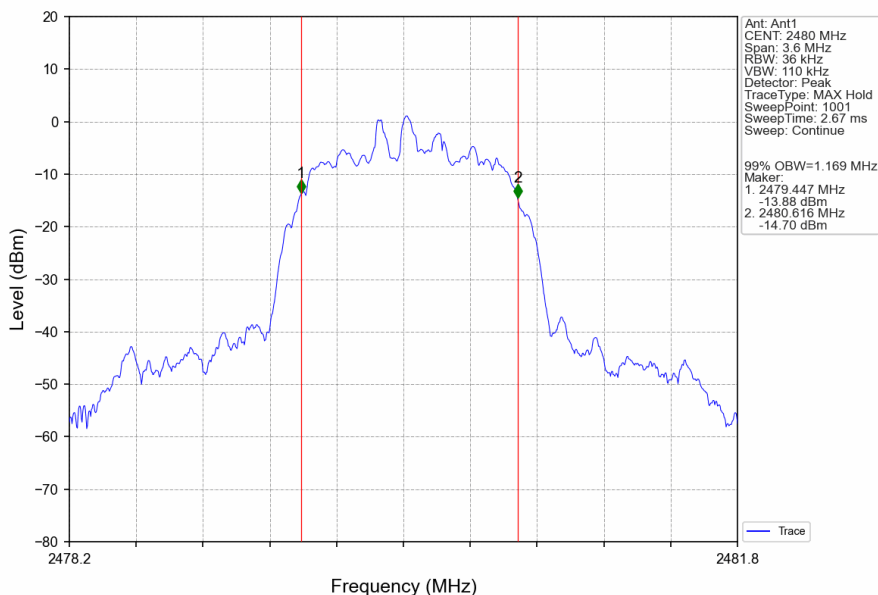
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

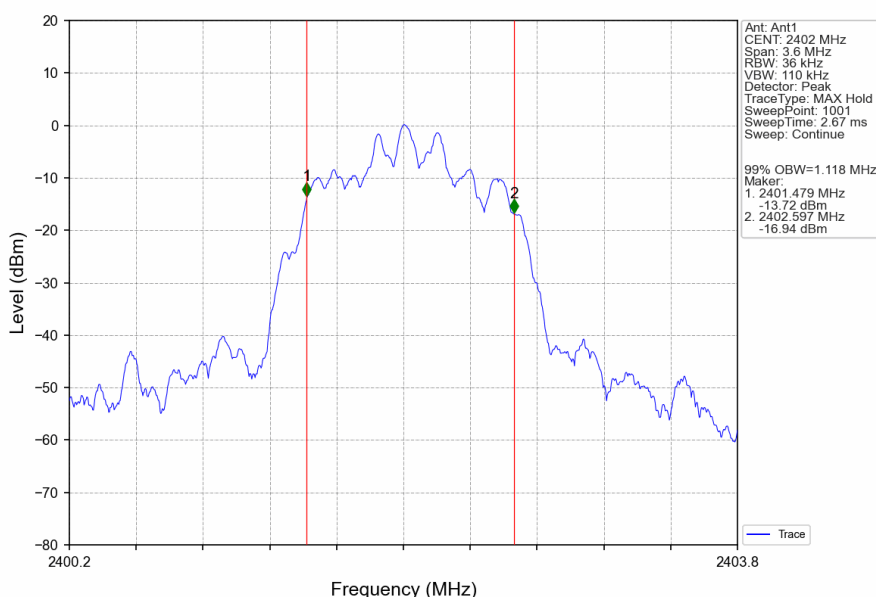


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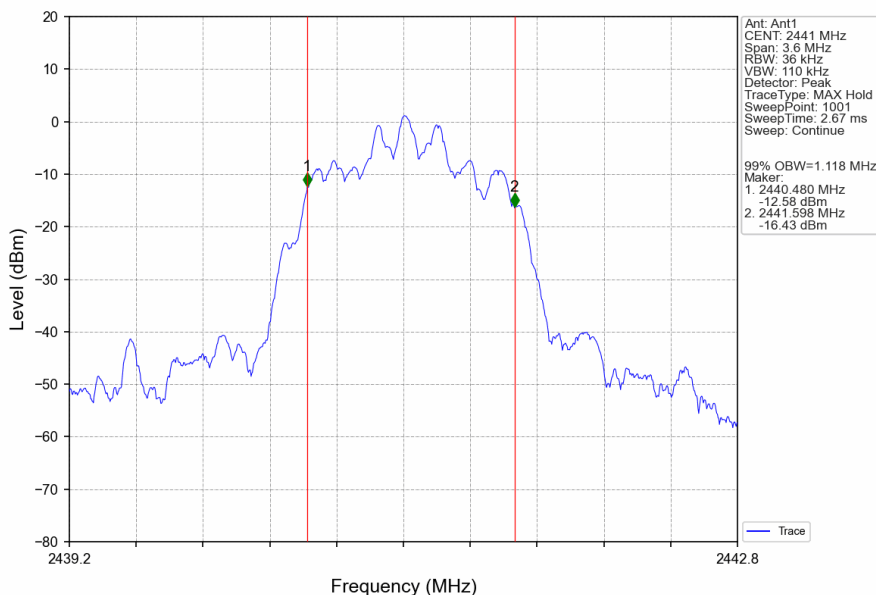
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



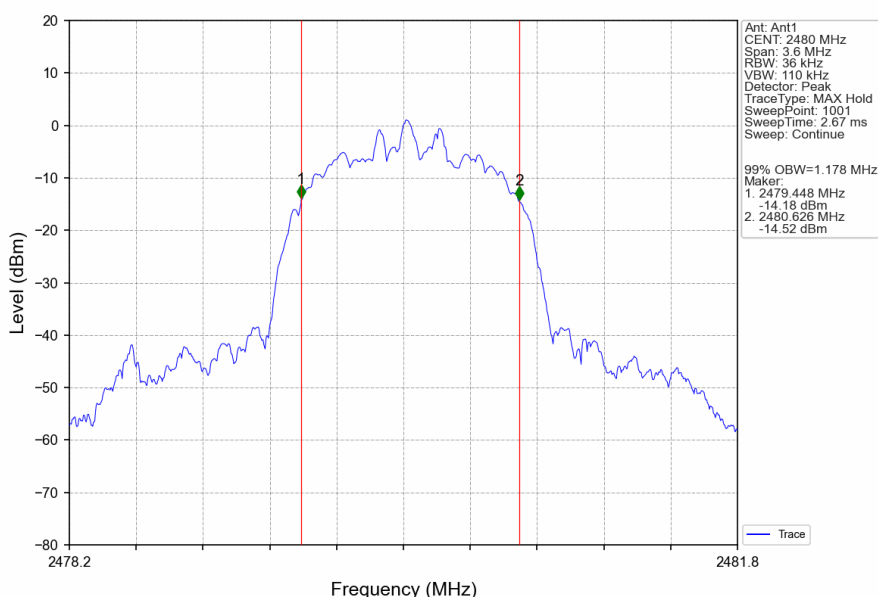
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

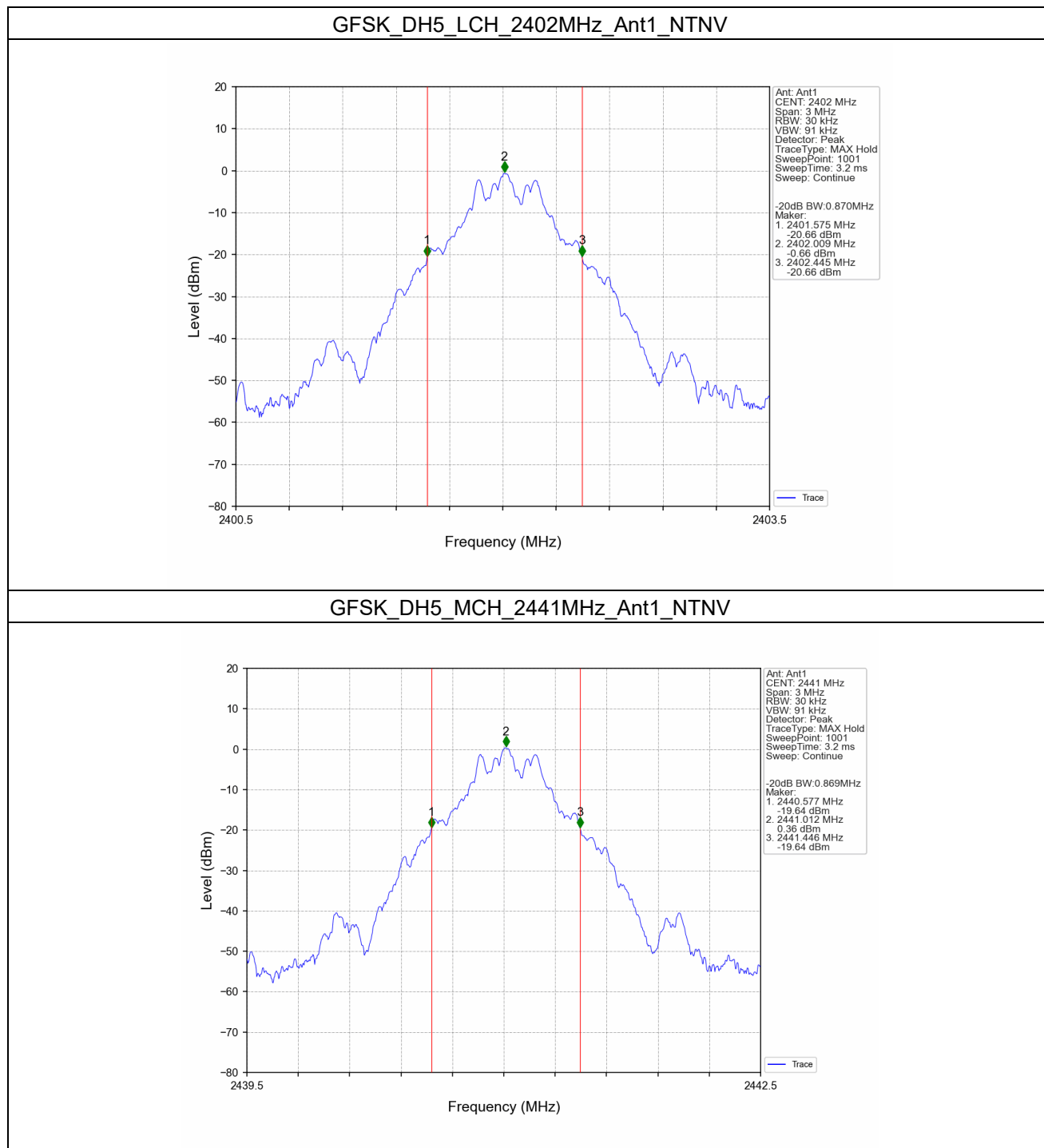


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1.2.2 20dB BW

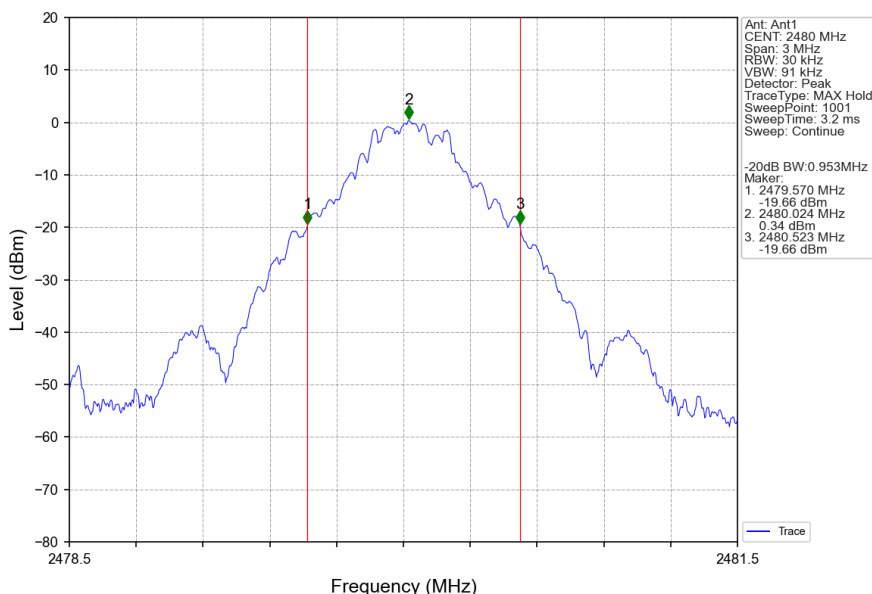


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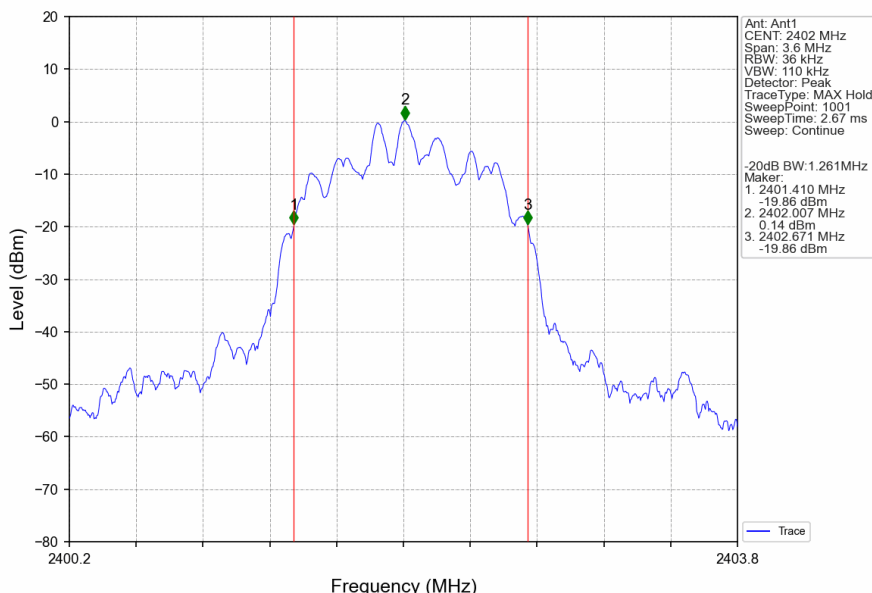
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

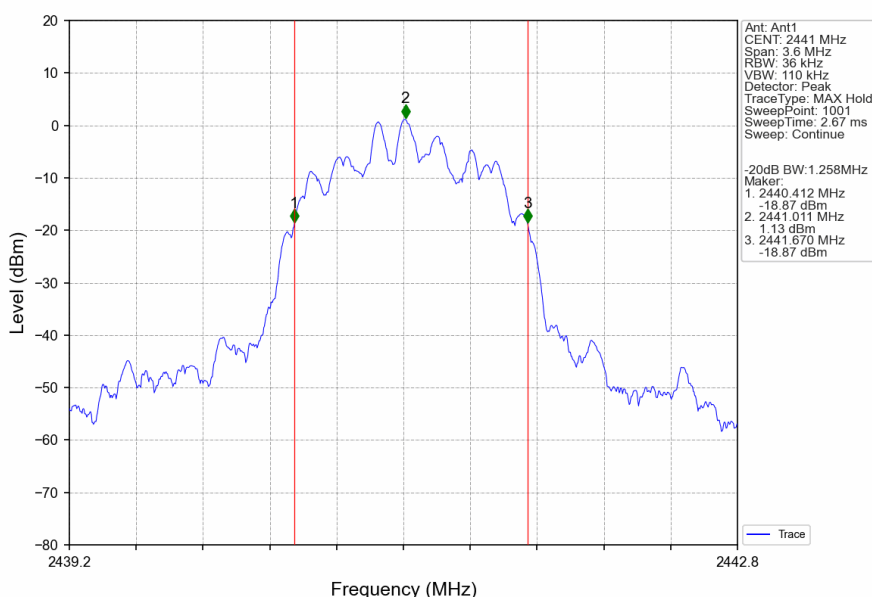


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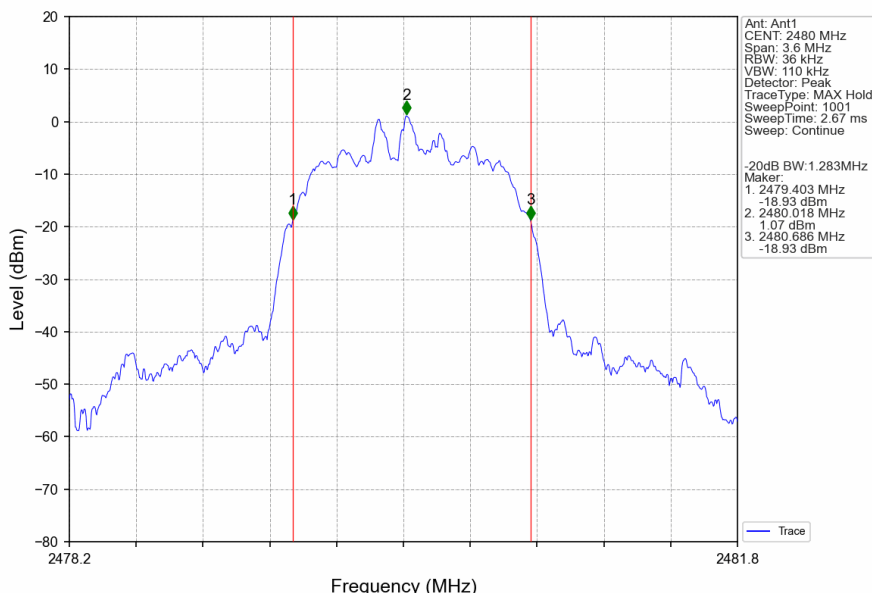
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

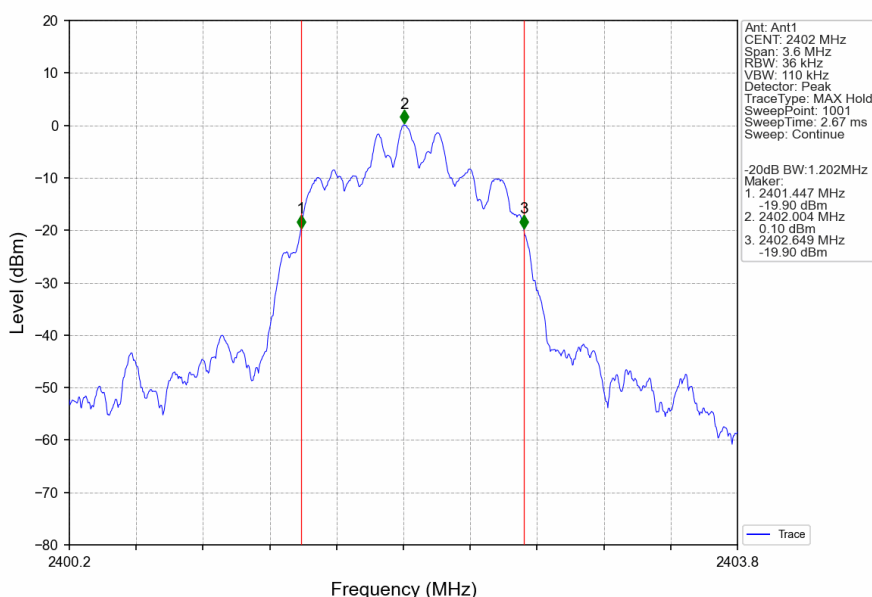


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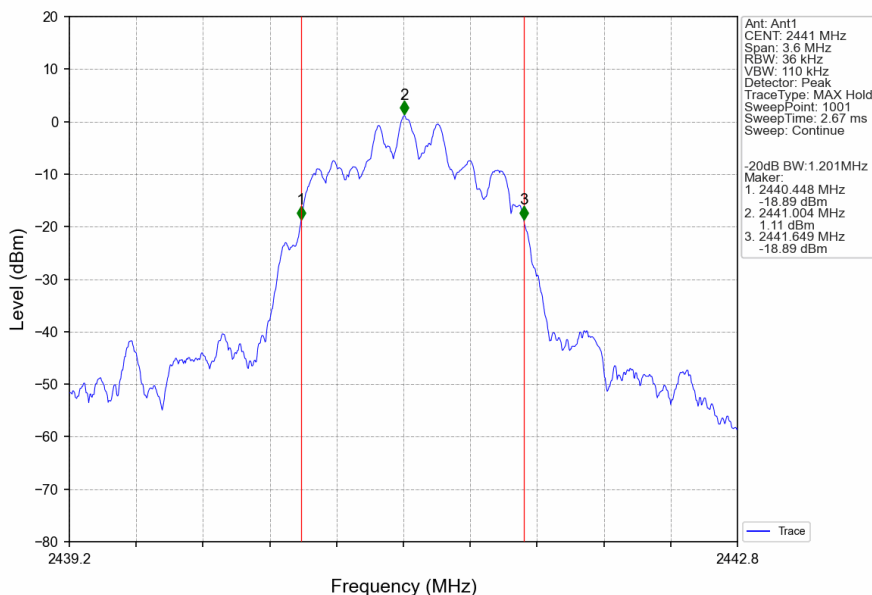
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

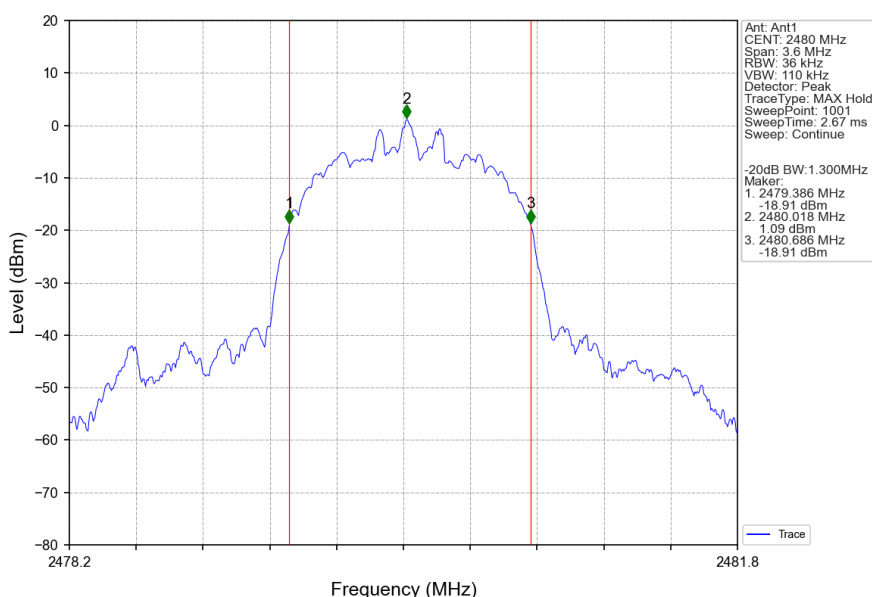


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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	1.54	<=30	Pass
		2441	DH5	2.48	<=30	Pass
		2480	DH5	2.98	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	2.39	<=20.97	Pass
		2441	2DH5	3.31	<=20.97	Pass
		2480	2DH5	3.74	<=20.97	Pass
8DPSK	SISO	2402	3DH5	2.75	<=20.97	Pass
		2441	3DH5	3.67	<=20.97	Pass
		2480	3DH5	4.15	<=20.97	Pass



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3. Carrier Frequency Separation

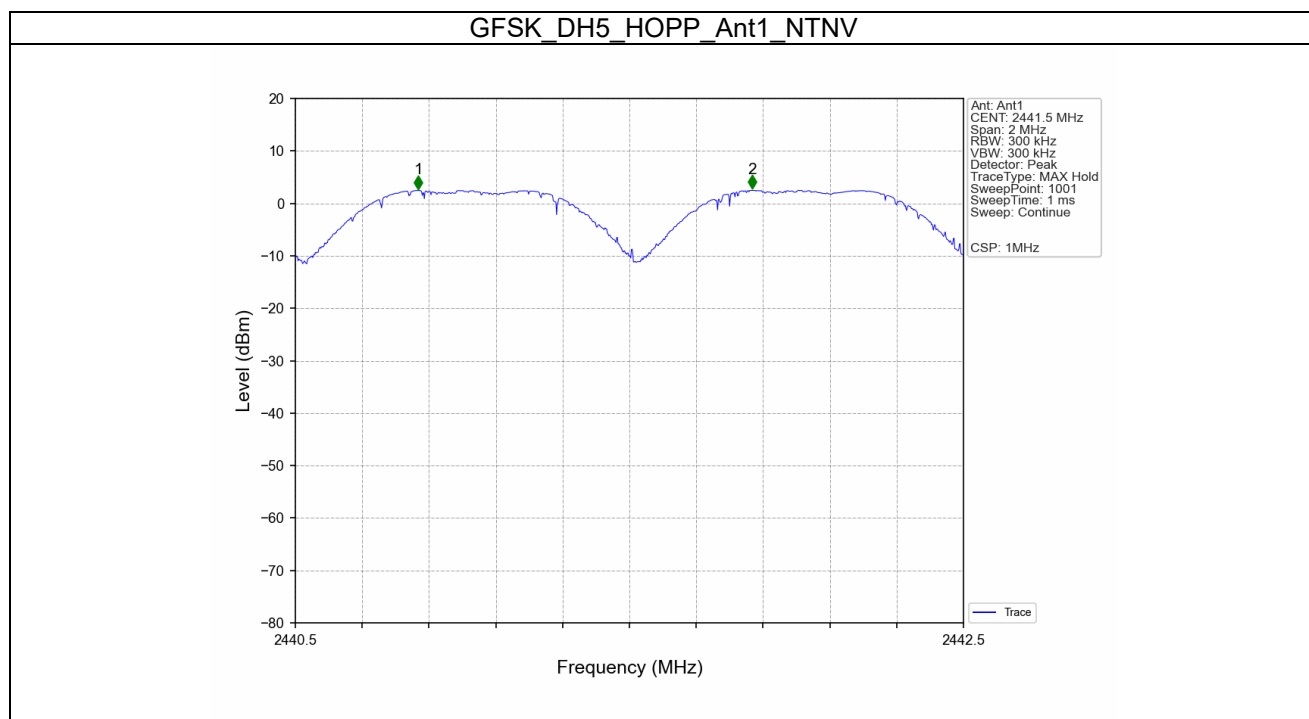
3.1 Test Result

3.1.1 Ant1

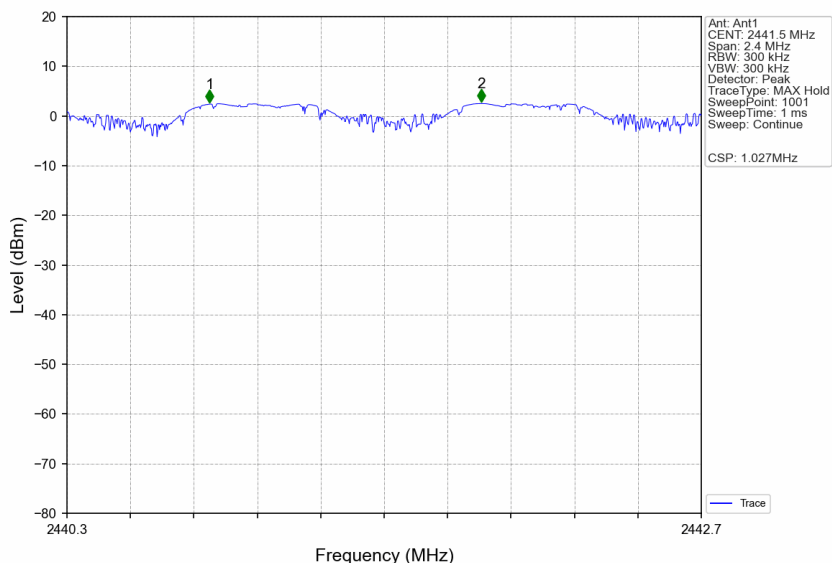
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	0.953	≥ 0.953	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.027	1.283	≥ 0.855	Pass
8DPSK	SISO	HOPP	3DH5	1.025	1.300	≥ 0.867	Pass

3.2 Test Graph

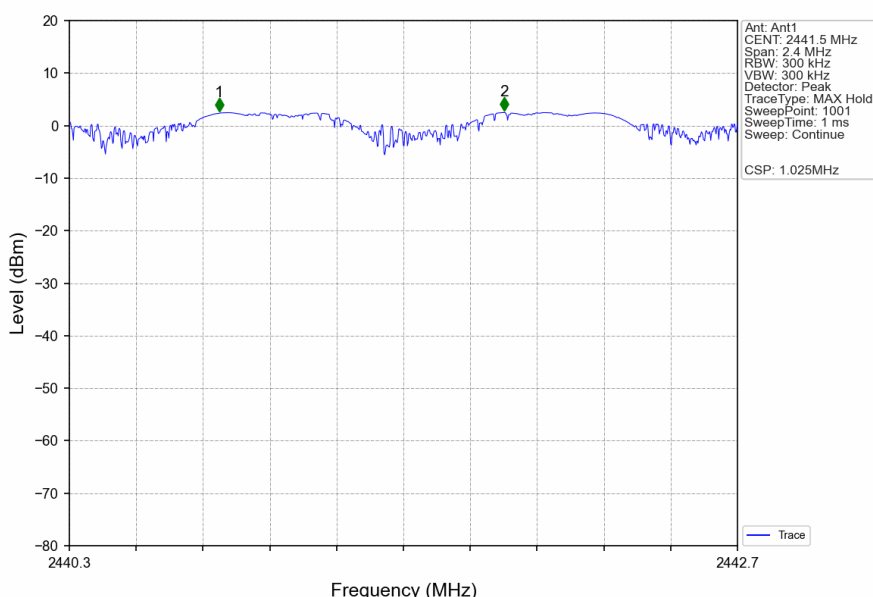
3.2.1 Ant1



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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4. Number of Hopping Frequencies

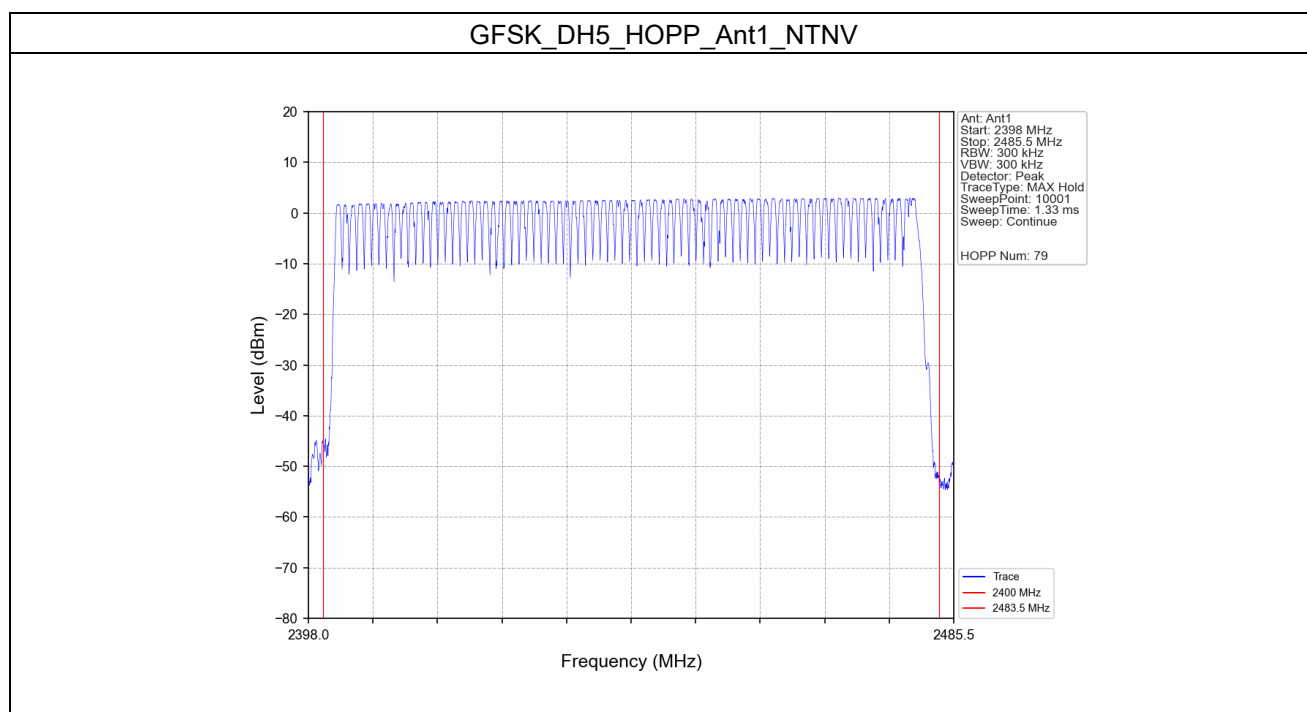
4.1 Test Result

4.1.1 HopNum

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 HopNum

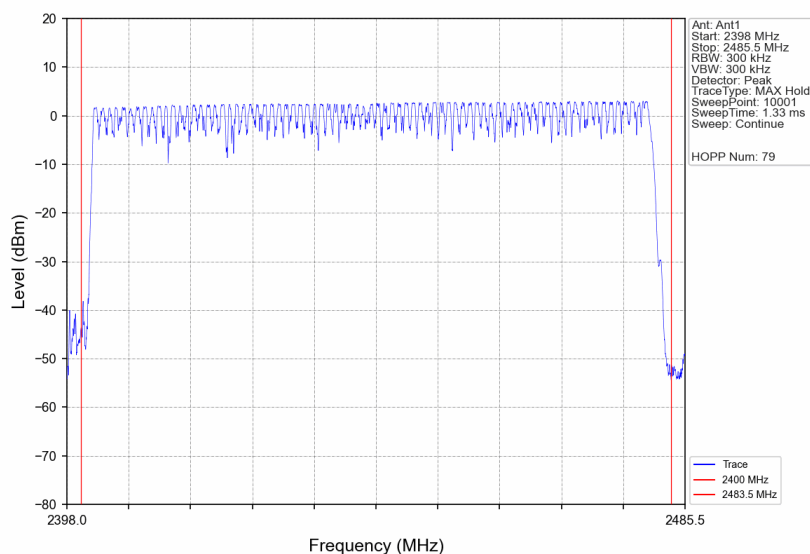


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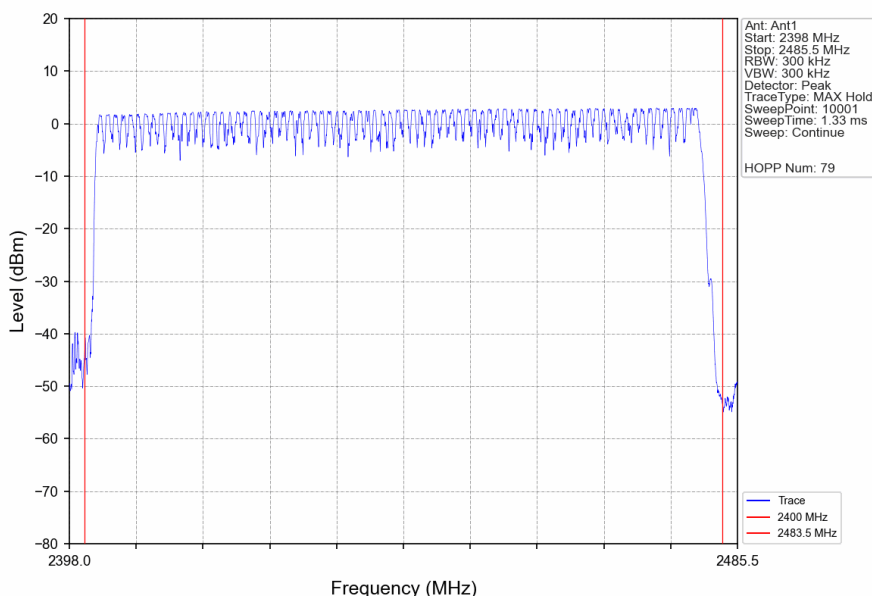
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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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	0.230	31.600	319	73.370	<=400	Pass
			DH3	0.230	31.600	320	73.600	<=400	Pass
			DH5	0.230	31.600	320	73.600	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.230	31.600	320	73.600	<=400	Pass
			2DH3	0.228	31.600	319	72.732	<=400	Pass
			2DH5	0.230	31.600	320	73.600	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.230	31.600	320	73.600	<=400	Pass
			3DH3	0.230	31.600	319	73.370	<=400	Pass
			3DH5	0.230	31.600	319	73.370	<=400	Pass



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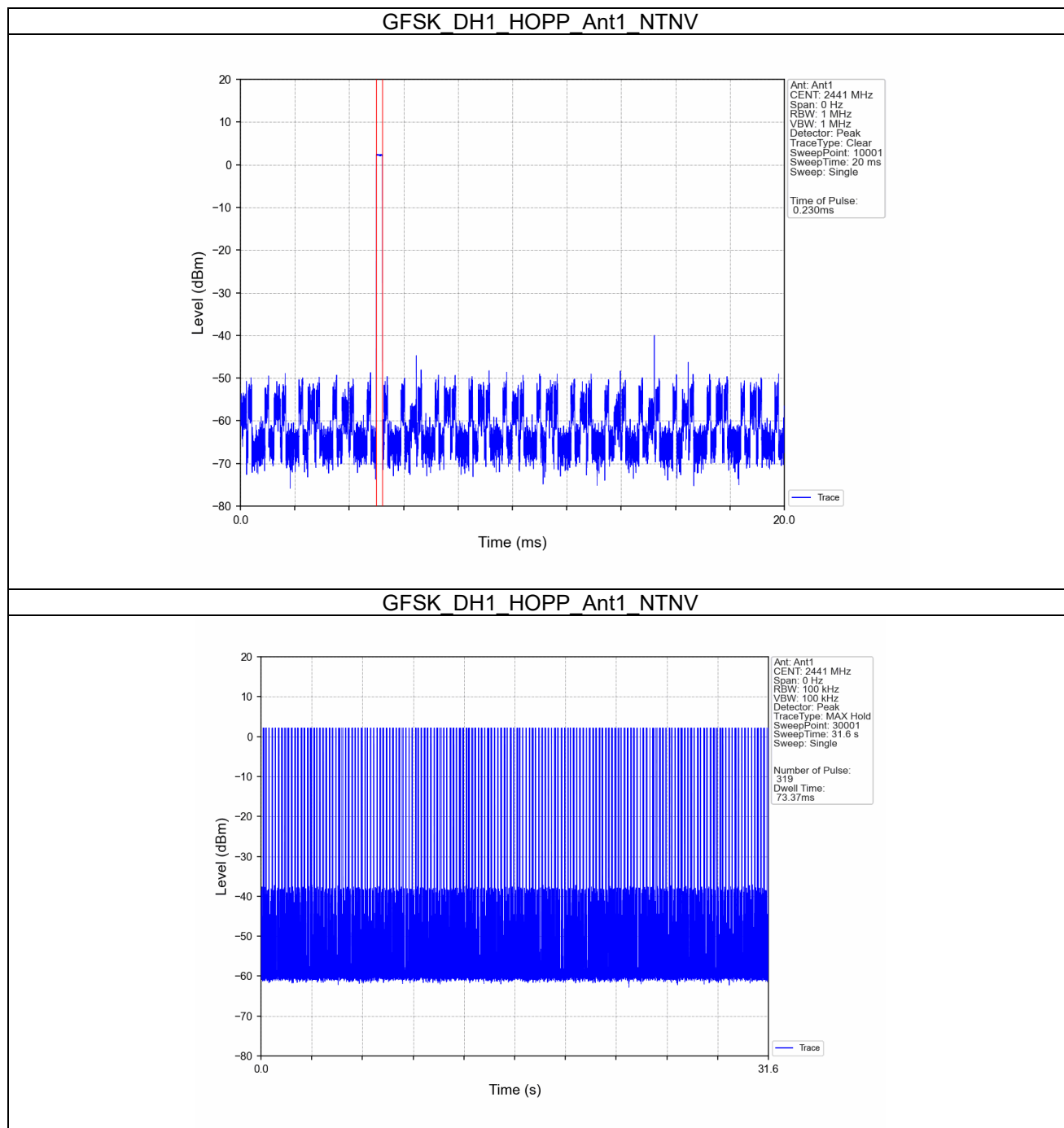
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5.2 Test Graph

5.2.1 Ant1

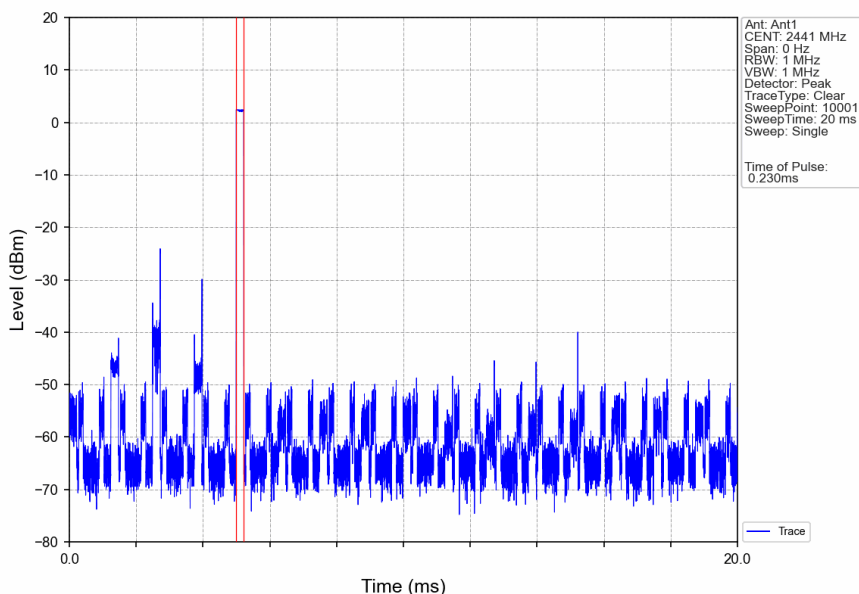


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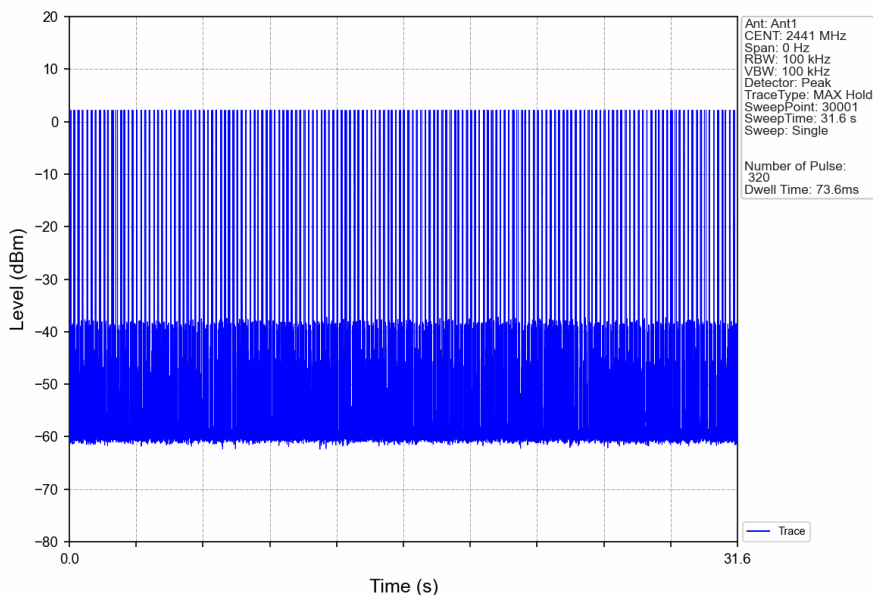
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GFSK_DH3_HOPP_Ant1_NTNV



GFSK_DH3_HOPP_Ant1_NTNV

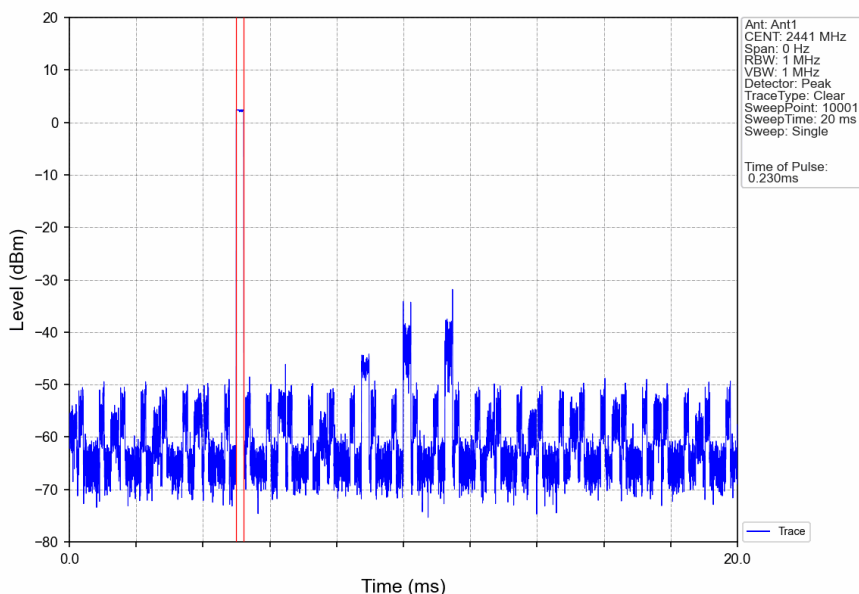


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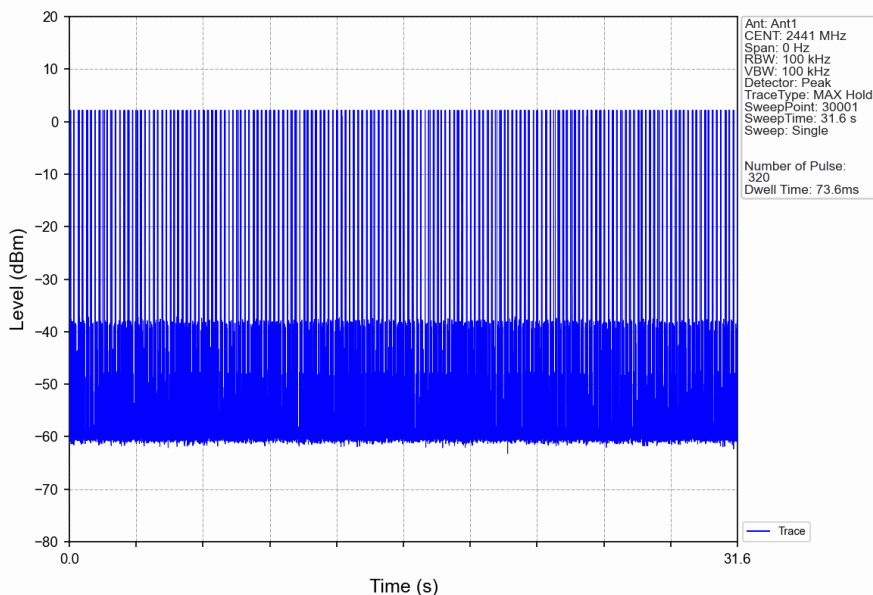
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GFSK_DH5_HOPP_Ant1_NTNV

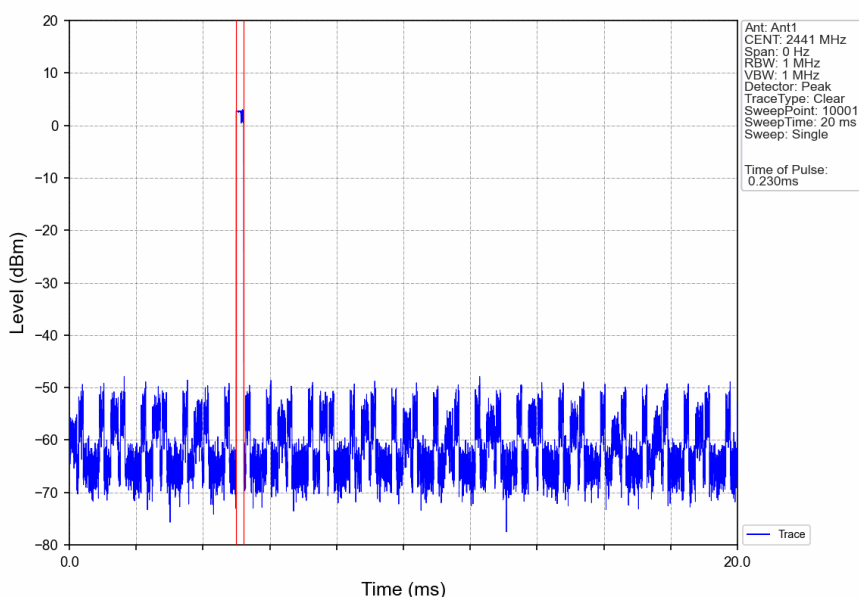


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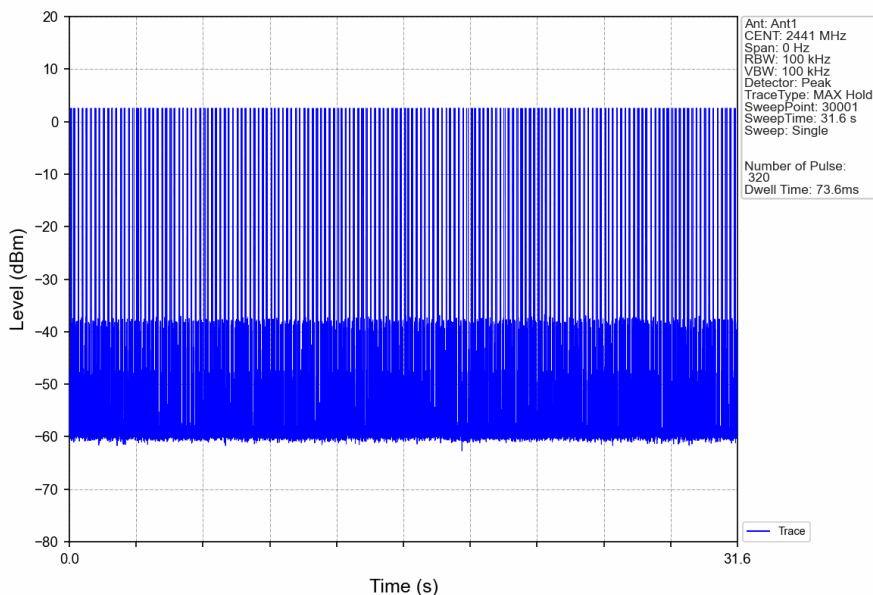
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Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV

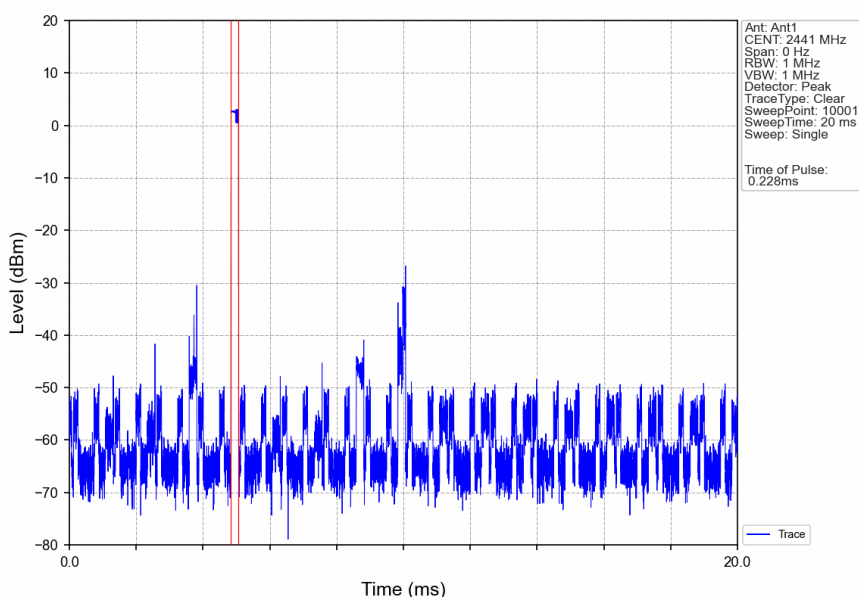


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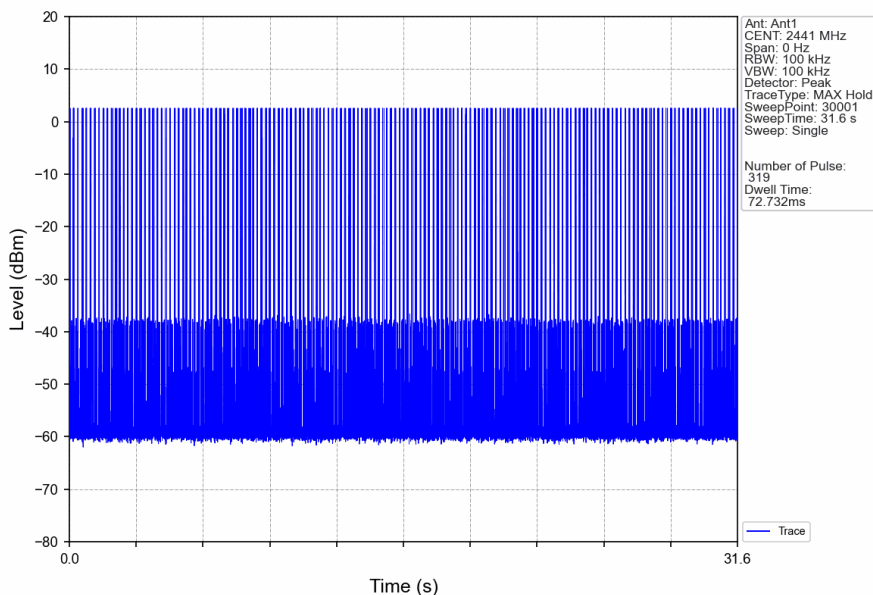
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Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV

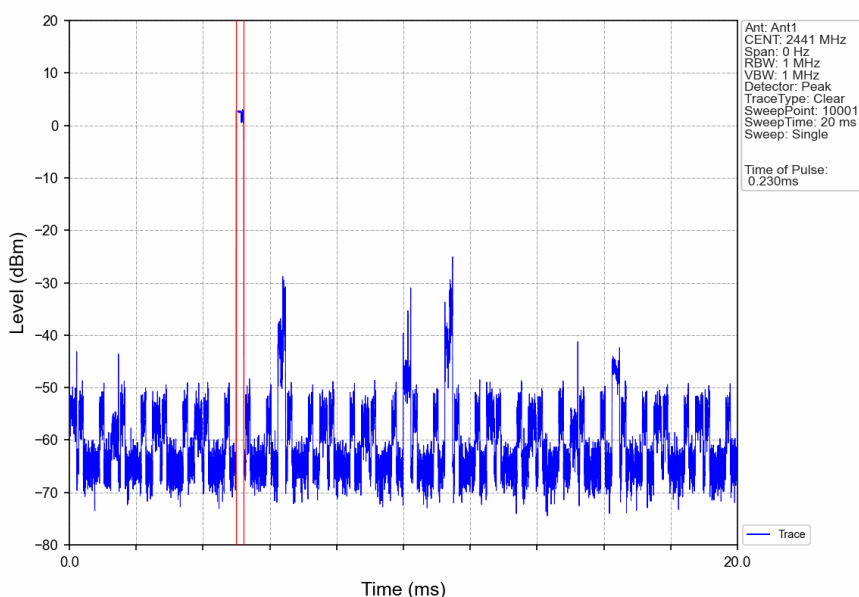


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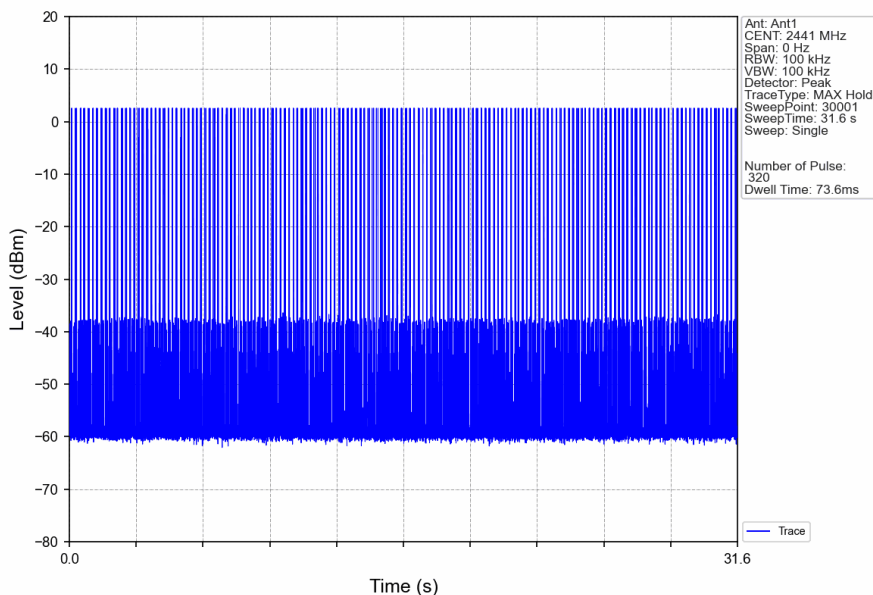
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

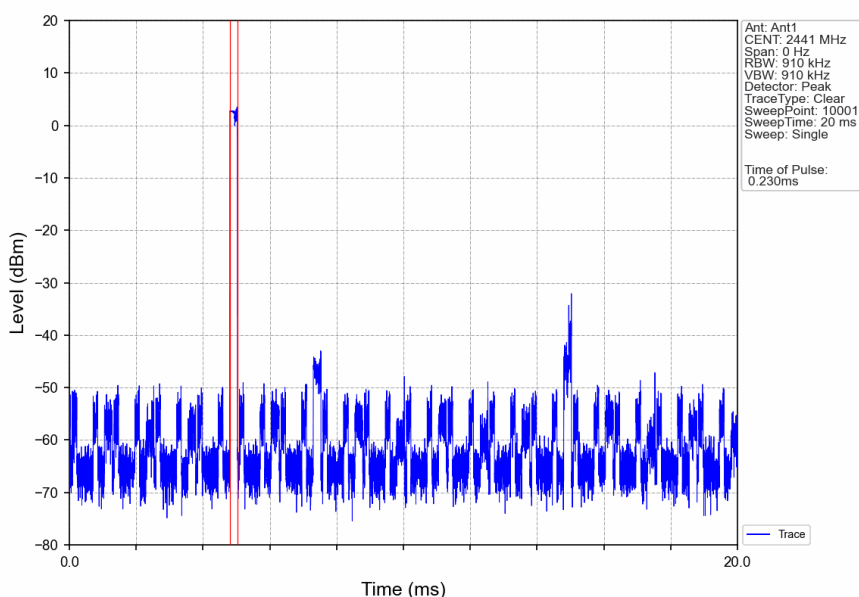


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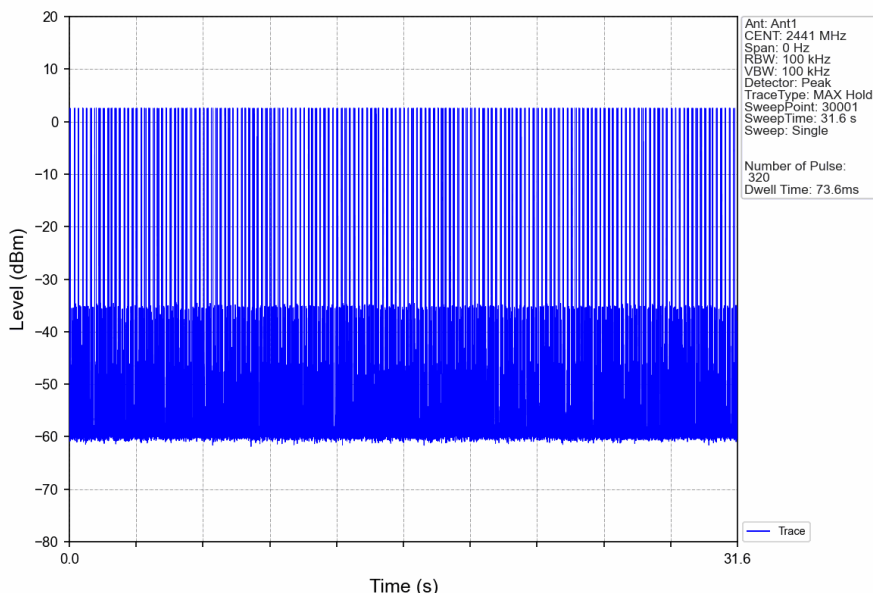
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8DPSK_3DH1_HOPP_Ant1_NTNV



8DPSK_3DH1_HOPP_Ant1_NTNV

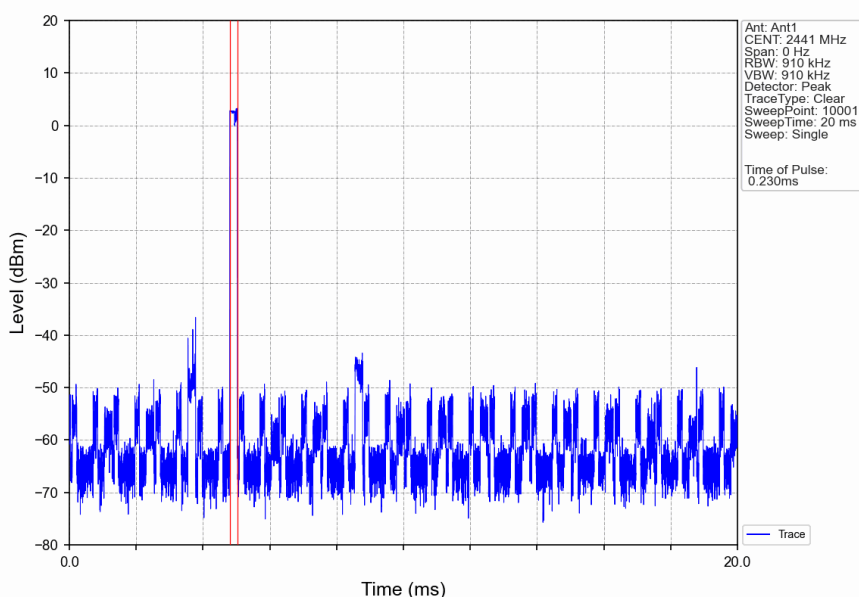


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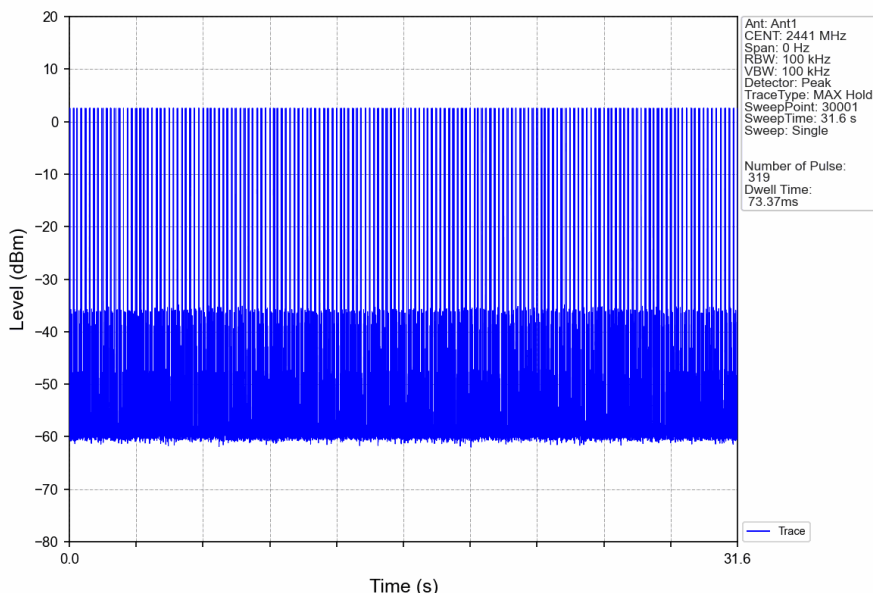
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8DPSK_3DH3_HOPP_Ant1_NTNV



8DPSK_3DH3_HOPP_Ant1_NTNV

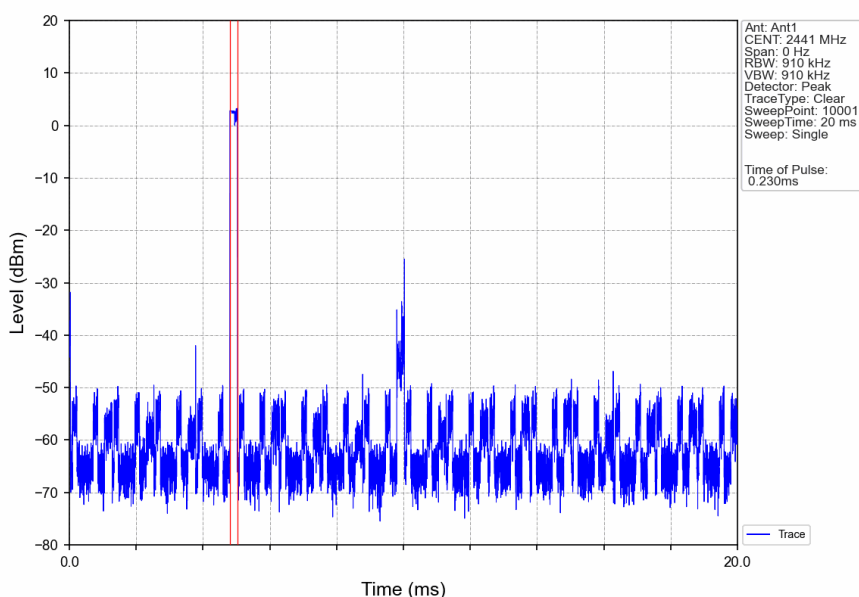


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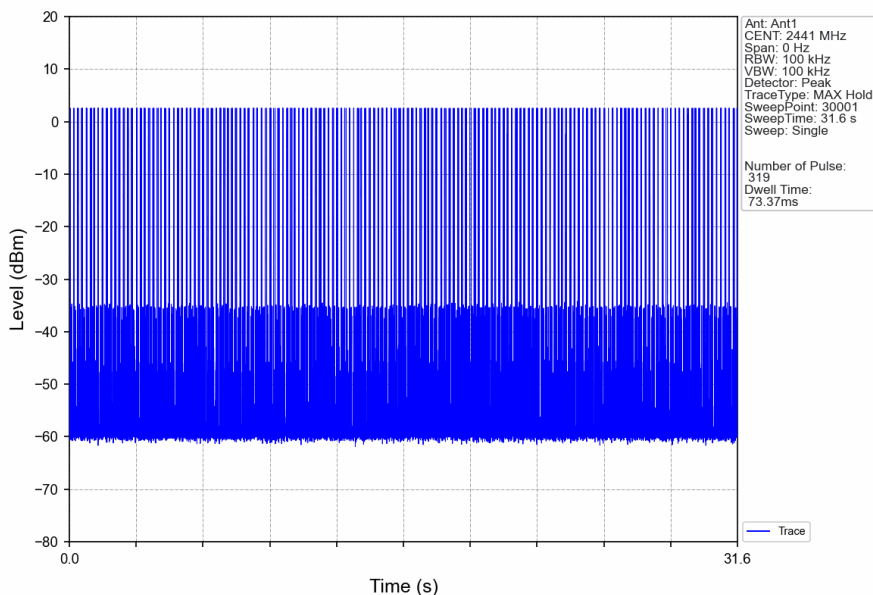
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8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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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	1.36
		2441	DH5	1	2.30
		2480	DH5	1	2.79
Pi/4DQPSK	SISO	2402	2DH5	1	1.44
		2441	2DH5	1	2.38
		2480	2DH5	1	2.78
8DPSK	SISO	2402	3DH5	1	1.35
		2441	3DH5	1	2.31
		2480	3DH5	1	2.79



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6.1.2 Conducted Spurious Emission

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	2.79	-17.21	Pass
		2441	DH5	1	2.79	-17.21	Pass
		2480	DH5	1	2.79	-17.21	Pass
		HOPP	DH5	1	2.79	-17.21	Pass
					2.79	-17.21	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	2.78	-17.22	Pass
		2441	2DH5	1	2.78	-17.22	Pass
		2480	2DH5	1	2.78	-17.22	Pass
		HOPP	2DH5	1	2.78	-17.22	Pass
					2.78	-17.22	Pass
8DPSK	SISO	2402	3DH5	1	2.79	-17.21	Pass
		2441	3DH5	1	2.79	-17.21	Pass
		2480	3DH5	1	2.79	-17.21	Pass
		HOPP	3DH5	1	2.79	-17.21	Pass
					2.79	-17.21	Pass



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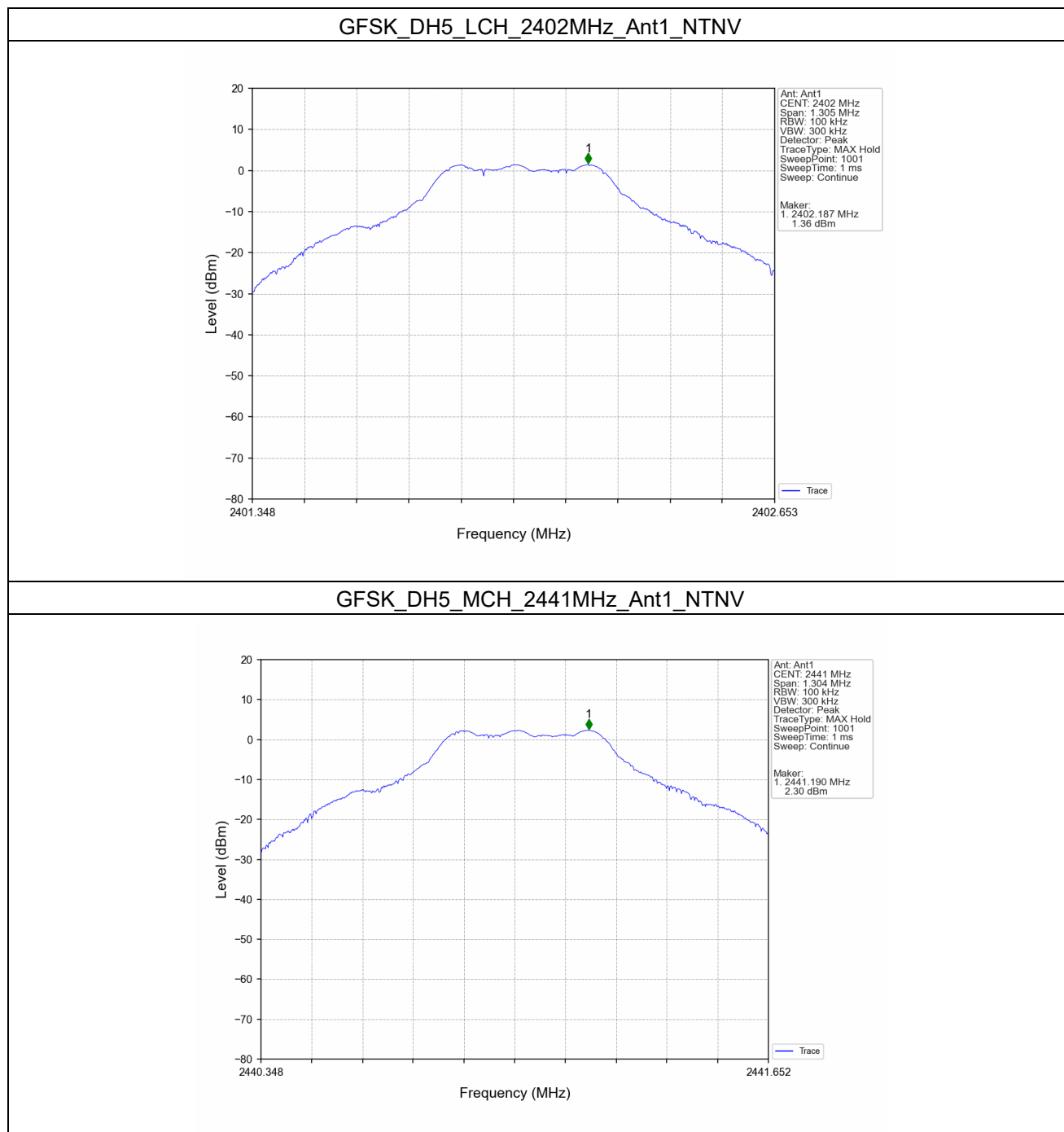
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6.2 Test Graph

6.2.1 Ref



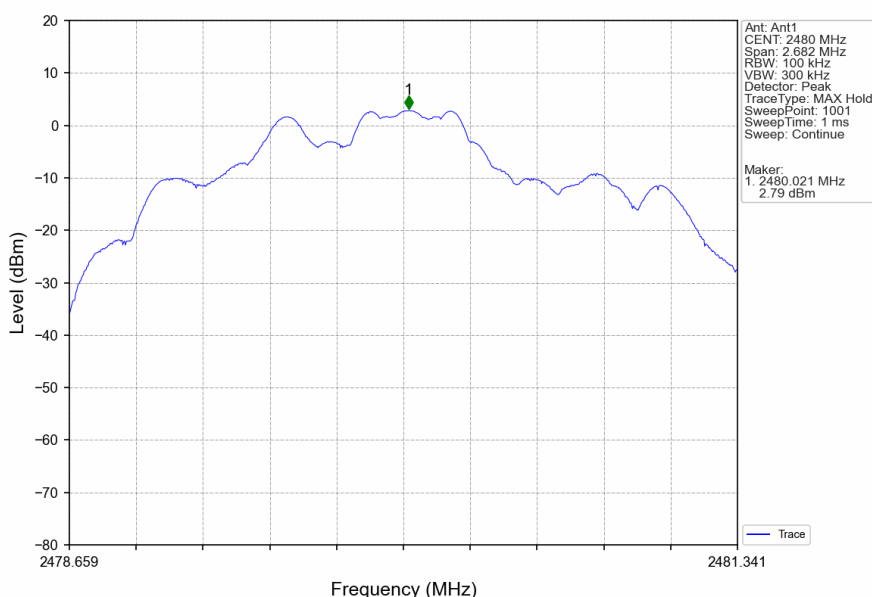
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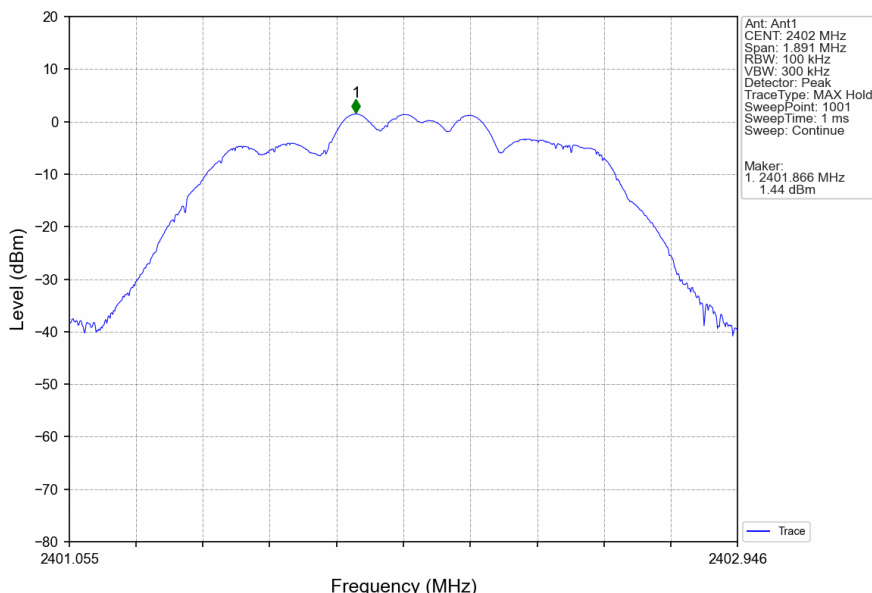
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

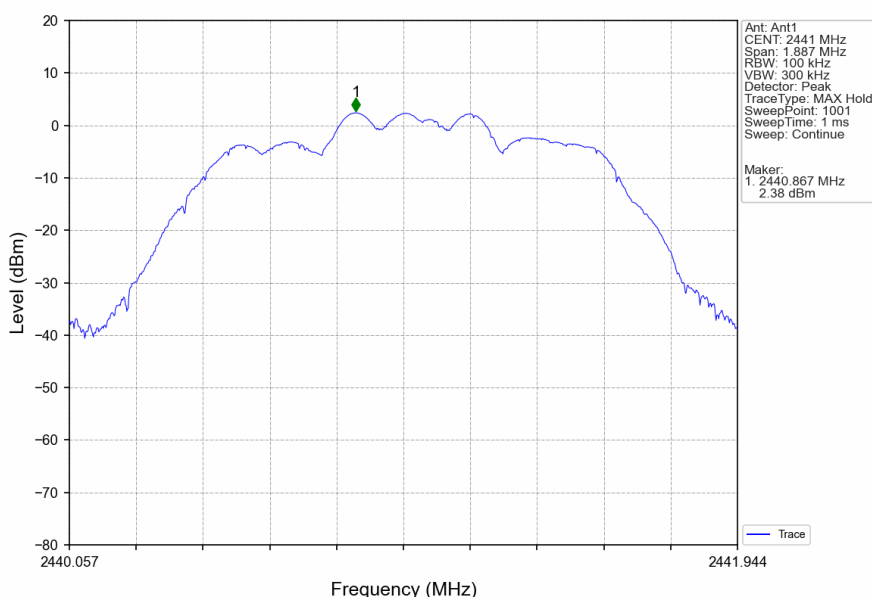


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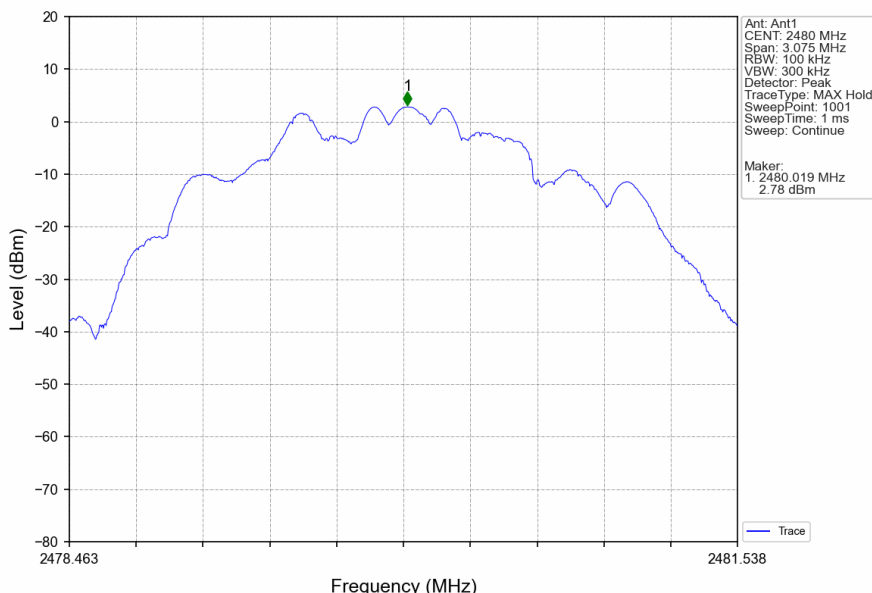
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

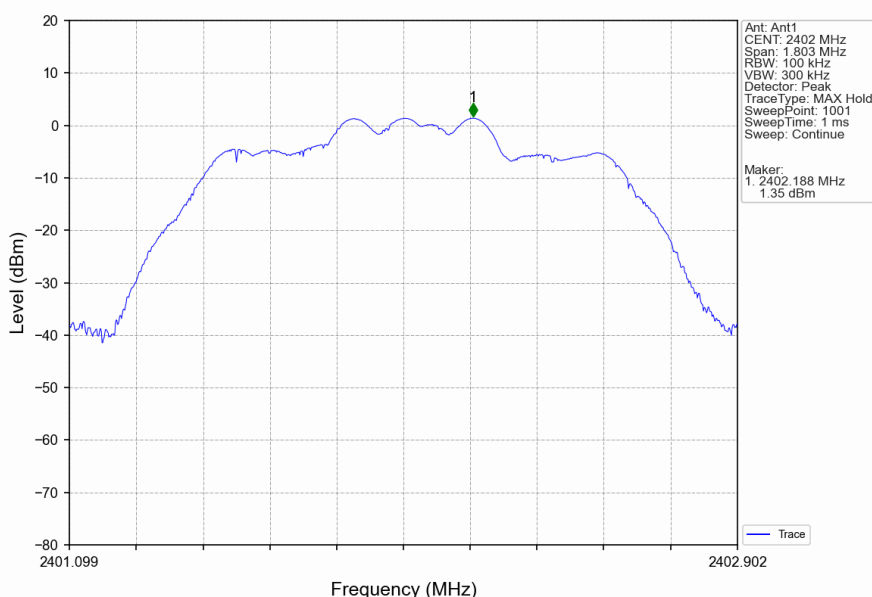


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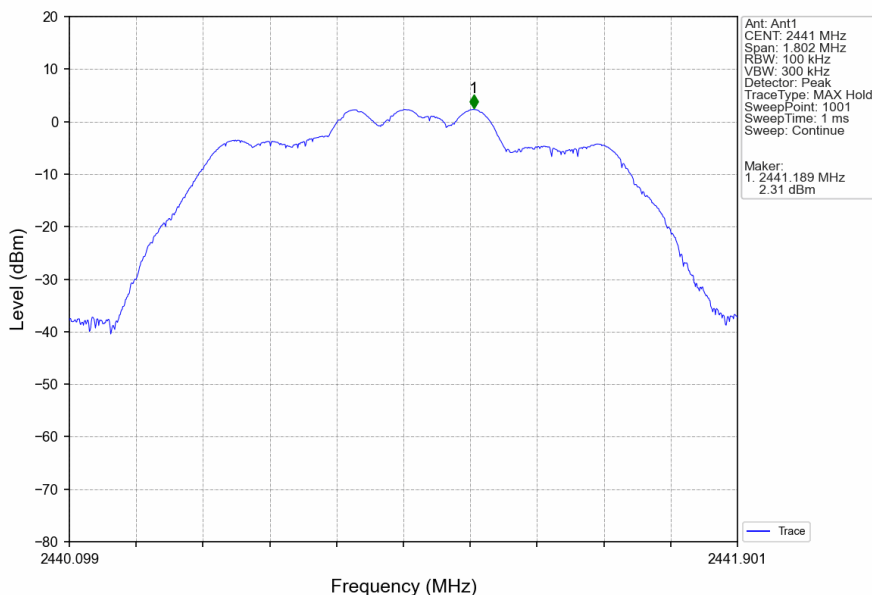
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



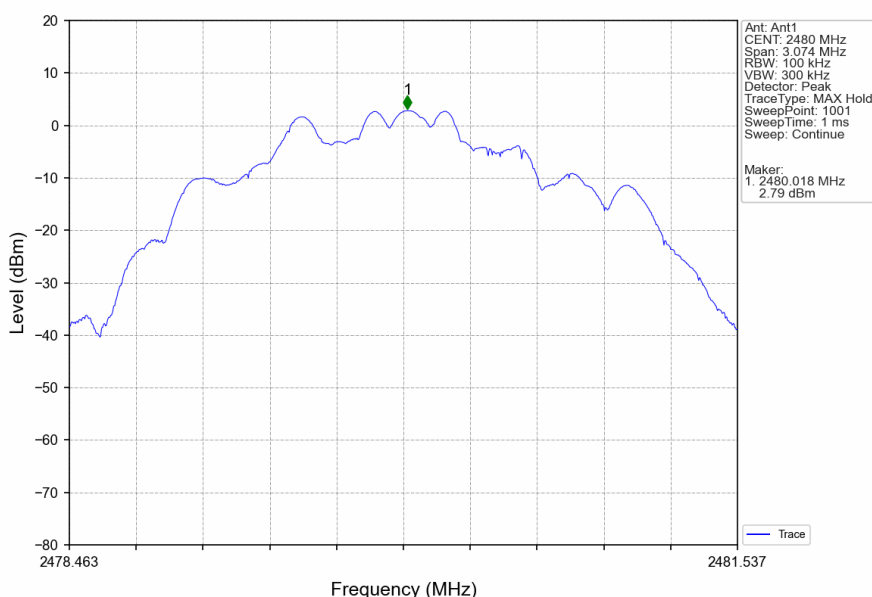
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

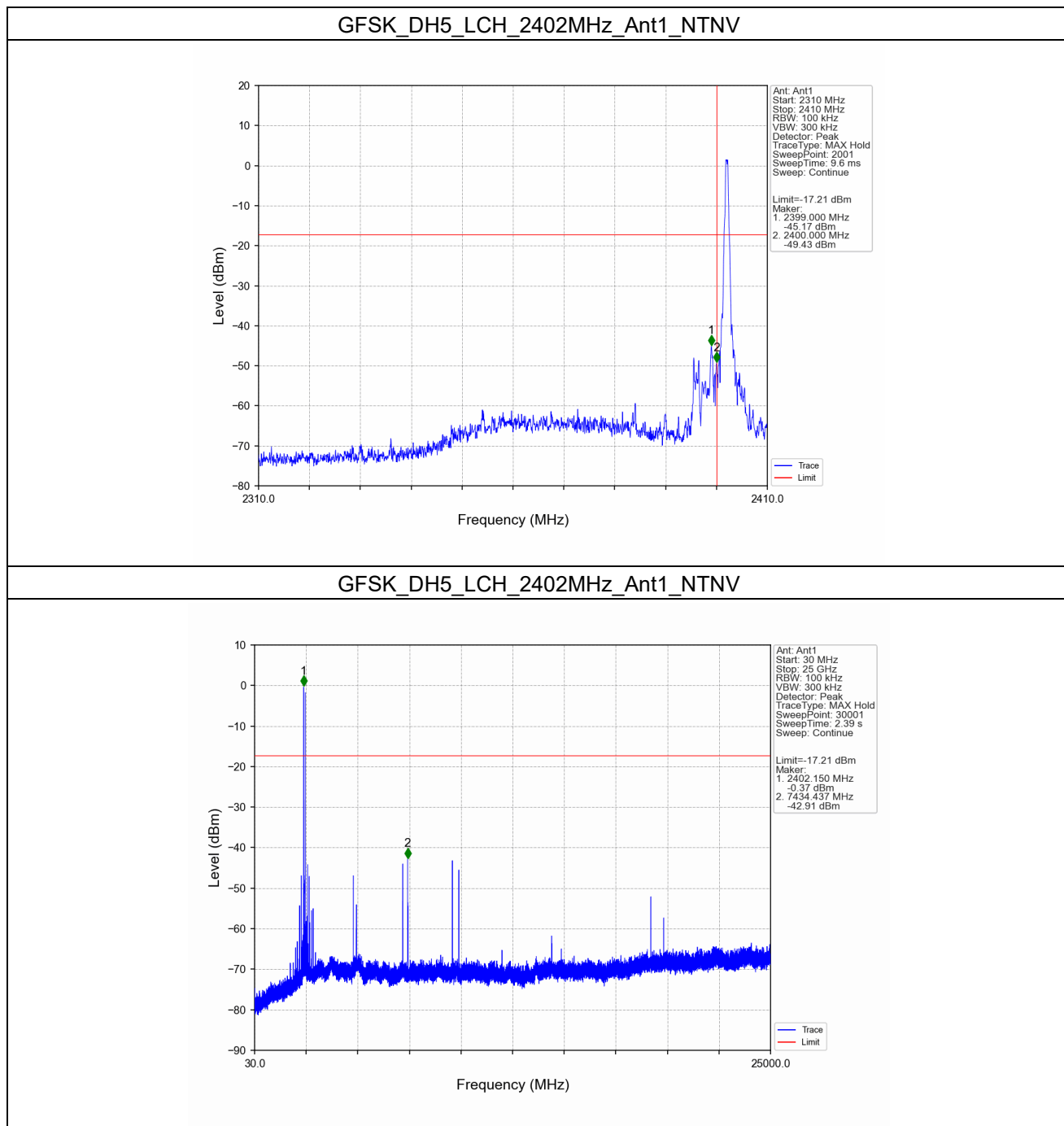


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6.2.2 Conducted Spurious Emission

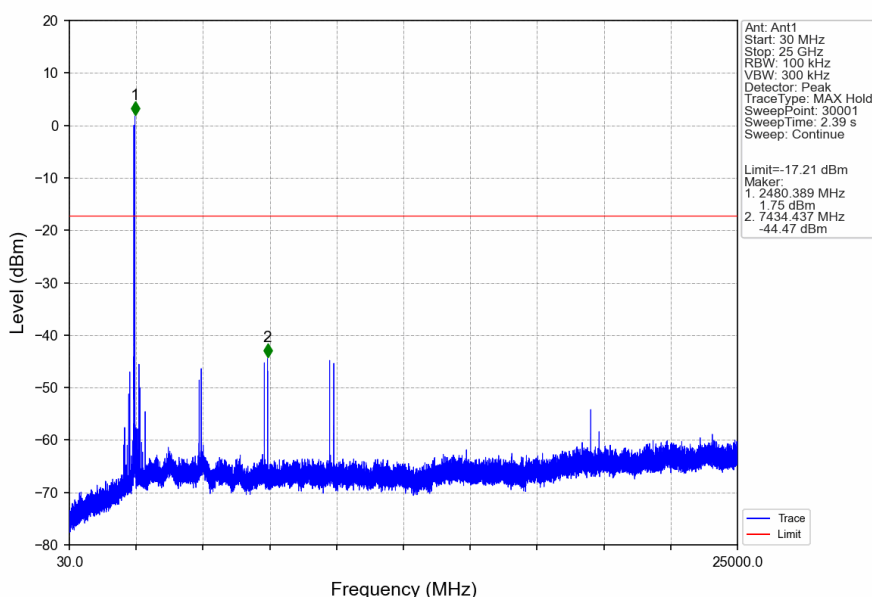


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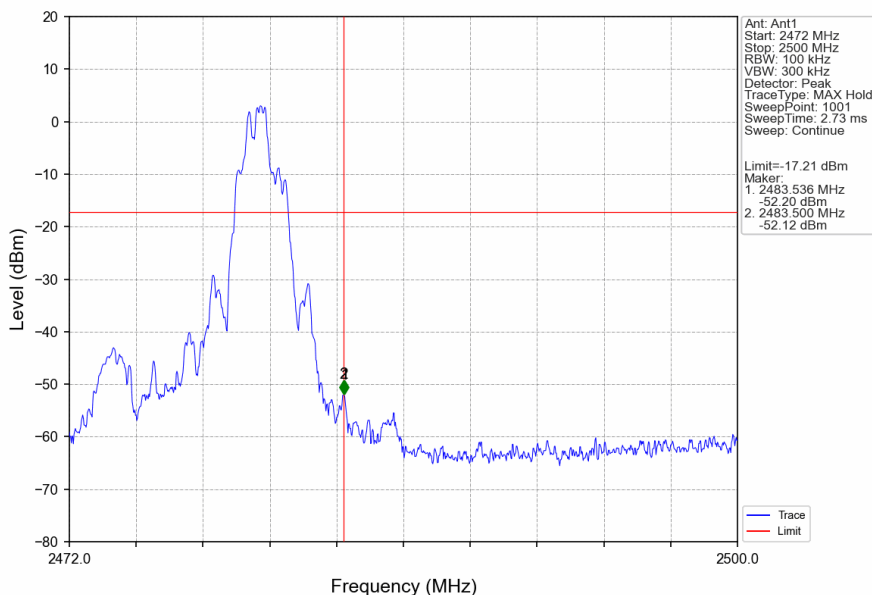
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GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV

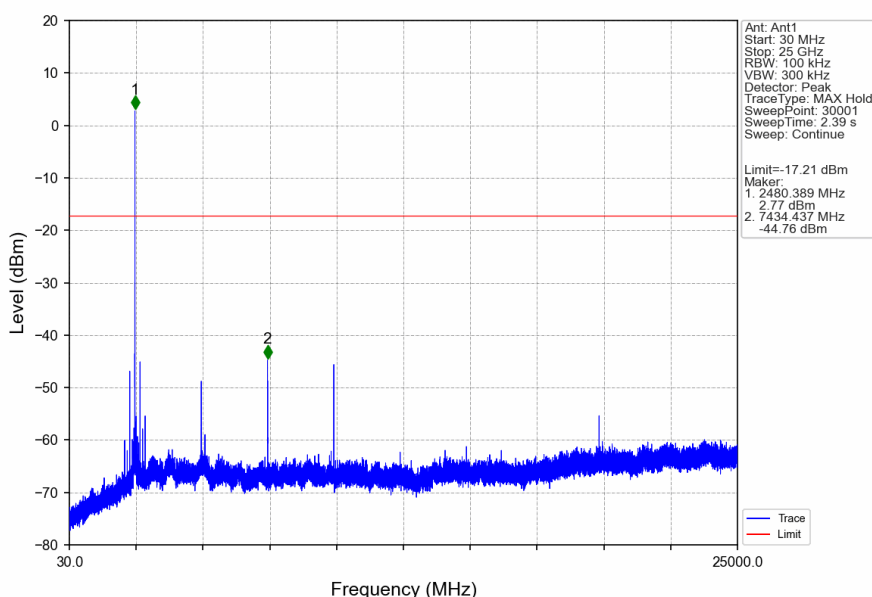


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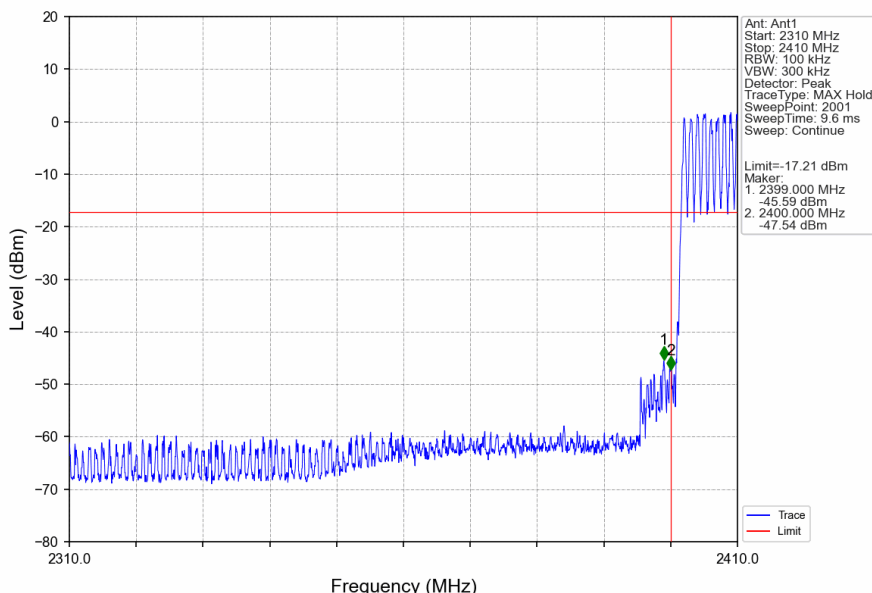
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



GFSK_DH5_HOPP_2400MHz_Ant1_NTNV

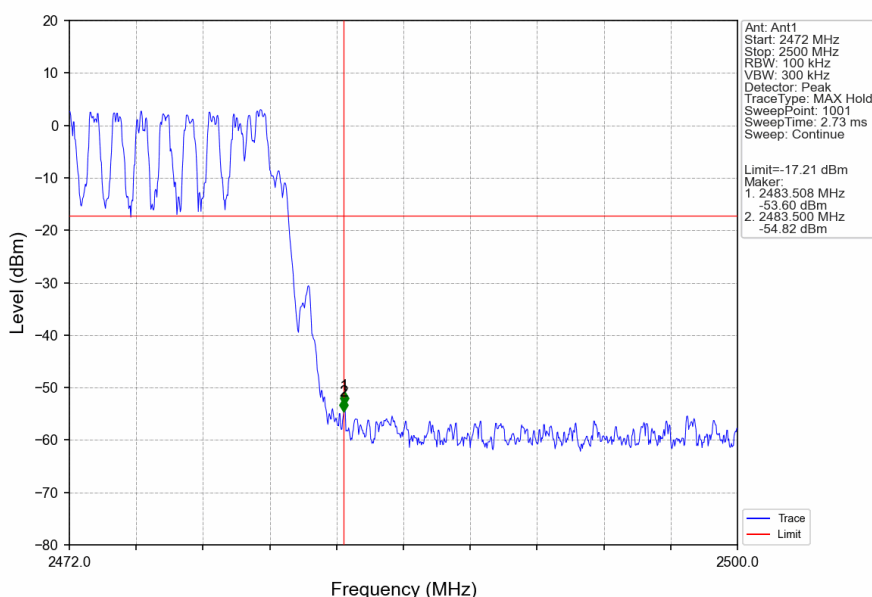


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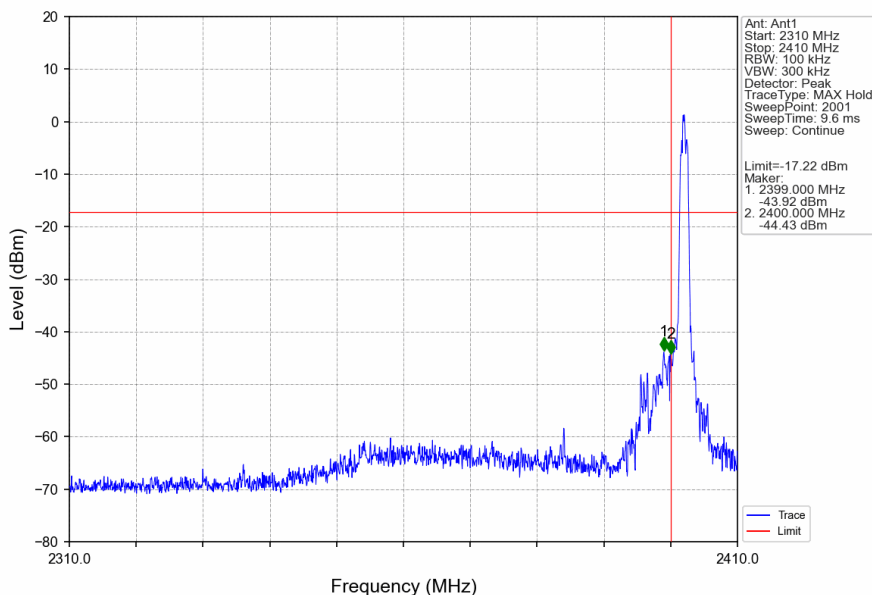
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GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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