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TEST REPORT

Test Result:	Pass*
Date of Issue:	2023-01-29
Date of Test:	2023-01-10 to 2023-01-13
Date of Receipt:	2022-12-14
	RSS-Gen Issue 5 April 2018 Amendment 2
	RSS-247 Issue 2, February 2017
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Trade Mark:	LD Systems
Model No.:	MAUI 28 G3
EUT Name:	COMPACT COLUMN PA SYSTEM
Equipment Under Test (EUT):
Address of Factory:	No. 8 Development Zone Road, Huimin Sub-district, Jiashan County, Zhejiang, 314112, P.R. China
Factory:	Speaker Electronic (Jiashan) Co.,Ltd
Address of Manufacturer:	Adam-Hall-Str. 1, 61267 Neu-Anspach, Germany
Manufacturer:	Adam Hall GmbH
Address of Applicant:	Adam-Hall-Str. 1, 61267 Neu-Anspach, Germany
Applicant:	Adam Hall GmbH
IC:	22349-3G28IUAM
FCC ID:	2AFF6-3G28IUAM
Application No.:	SHCR2212002752AT

* In the configuration tested, the EUT complied with the standards specified above.

parlan share

Parlam Zhan Laboratory Manager



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Revision Record							
Version Description Date Remark							
00	Original	2023-01-29	/				

Authorized for issue by:			
	Wade thang	_	
	Wade Zhang/Project Engineer		
	Paurlam zhan		
	Parlam Zhan/Reviewer		



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2 Test Summary

Radio Spectrum Tecl	hnical Requirement			
ltem	FCC Requirement	IC Requirement	Method	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	RSS-Gen Clause 6.8	N/A	Customer Declaration
Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence	47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)	RSS-247 Section 5.1(a)	N/A	Pass
N/A: Not applicable				
Radio Spectrum Matt	ter Part			
ltem	FCC Requirement	IC Requirement	Method	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.207	RSS-Gen Section 8.8	ANSI C63.10 (2013) Section 6	.2 Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247(b)(1)	RSS-247 Section 5.4(b)	ANSI C63.10 (2013) Section 7.8.5	Pass
20dB Bandwidth	47 CFR Part 15, Subpart C 15.247(a)(1)	RSS-247 Section 5.1(a)	ANSI C63.10 (2013) Section 7.8.7	Pass
Carrier Frequencies Separation	47 CFR Part 15, Subpart C 15.247a(1)	RSS-247 Section 5.1(b)	ANSI C63.10 (2013) Section 7.8.2	Pass
Hopping Channel Number	47 CFR Part 15, Subpart C 15.247a(1)(iii)	RSS-247 Section 5.1(d)	ANSI C63.10 (2013) Section 7.8.3	Pass
Dwell Time	47 CFR Part 15, Subpart C 15.247a(1)(iii)	RSS-247 Section 5.1(d)	ANSI C63.10 (2013) Section 7.8.4	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Section 5.5	ANSI C63.10 (2013) Section 7.8.6	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Section 5.5	ANSI C63.10 (2013) Section 7.8.8	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.205 & 15.209	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.10.5	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.205 & 15.209	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.4,6.5,6.6	Pass
99% Bandwidth	-	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	AC 100-240V 50/60Hz
Test Voltage:	AC 120V 60Hz
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:	Dipole Antenna
Antenna Gain:	2 dBi (Provided by manufacturer)
S/N:	BB173574
Firmware Version:	InstallBlueSuiteCda_3_3_9_1137

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	LENOVO	L460	-
SecureCRT	VanDyke	V 6.2.0	-
Serial port adapter plate	-	Test Plate 3	-

4.3 Power level setting using in test:

<u> </u>						
Channel	DH5	2DH5	3DH5			
0	Default	Default	Default			
39	Default	Default	Default			
78	Default	Default	Default			



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4.4 Measurement Uncertainty & Decision Rule

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸
2	Timeout	2s
3	Duty cycle	0.4%
4	Occupied Bandwidth	3%
5	RF conducted power	0.6dB
6	RF power density	2.9dB
7	Conducted Spurious emissions	0.75dB
0	DE Dedicted server	5.2dB (Below 1GHz)
8	RF Radiated power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
9	Dedicted Sourious emission test	4.5dB (30MHz-1GHz)
9	Radiated Spurious emission test	5.1dB (1GHz-6GHz)
		5.4dB (6GHz-18GHz)
10	Temperature test	1°C
11	Humidity test	3%
12	Supply voltages	1.5%
13	Time	3%

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

4.5 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China Tel: +86 21 6191 5666 Fax: +86 21 6191 5678 No tests were sub-contracted. Note:

SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc.) is provided by the applicant. (if applicable).
 SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).



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4.6 Test Facility

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

• A2LA (Certificate No. 6332.01)

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

• FCC (Designation Number: CN1301)

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

• ISED (CAB Identifier: CN0020)

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

• VCCI (Member No.: 3061)

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

4.7 Deviation from Standards None

4.8 Abnormalities from Standard Conditions None



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Equipment List 5

Equipment	Model No	Inventory No	Cal Date	Cal Due Date	
RF Conducted Test	Manufacturer				
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2022-12-20	2023-12-19
Spectrum Analyzer	Keysight	N9020B	SHEM241-1	2022-12-20	2023-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2022-08-02	2023-08-01
Signal Generator	R&S	SMR20	SHEM006-1	2022-08-02	2023-08-01
Signal Generator	Agilent	N5182A	SHEM182-1	2022-08-02	2023-08-01
Communication Tester	R&S	CMW270	SHEM183-1	2022-07-25	2023-07-24
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2022-08-02	2023-08-01
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2022-11-08	2024-11-07
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2022-12-20	2023-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2022-12-20	2023-12-19
Conducted test Cable	/	RF01~RF04	/	2022-12-20	2023-12-19
Switcher	Tonscend	JS0806	SHEM184-1	2022-08-02	2023-08-01
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	/
Coaxial Cable	TST	,	SHEM263-1	2022-08-02	2023-08-01
Test software	TST	TST PASS	Version: 2.0	/	/
RF Radiated Test	•				
EMI test Receiver	R&S	ESU40	SHEM051-1	2022-12-20	2023-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2022-12-20	2023-12-19
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2022-12-20	2023-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2021-09-11	2023-09-10
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2021-05-07	2023-05-06
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2022/8/11	2024-08-10
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2021-09-18	2023-09-17
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2021-09-18	2023-09-17
Pre-Amplifier	HP	8447D	SHEM236-1	2022-08-02	2023-08-01
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2022-12-20	2023-12-19
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2020-05-25	2023-05-24
RE test Cable	/	RE01, RE02, RE06	/	2022-01-07	2023-01-06
RE test Cable	/	RE01, RE02, RE06	/	2023-01-07	2024-01-06
Test software	ESE	E3	Version: 6.111221a	/	/



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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 dipole antenna and no consideration of replacement. The best case gain of the antenna is 2 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: 29 -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):



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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 (2013) Section 6.2

Limit:

	Conducted	limit(dBµV)		
Frequency of emission(MHz)	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 re	solution bandwidth) 0.15M to 3	0MHz		

7.1.1 E.U.T. Operation

Operating Enviro	onmen	t:				
Temperature:	22	°C	Humidity:	50	% RH	Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_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.



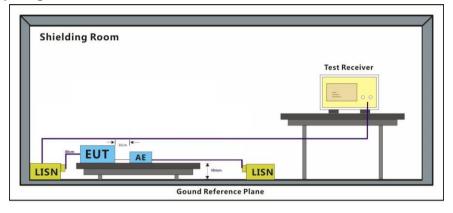
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7.1.3 Test Setup Diagram



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/50 μ H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

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



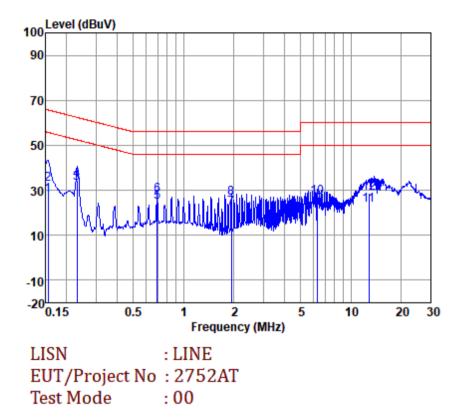
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Test Mode: 00; Line: Live line

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.15	17.65	0.40	9.87	27.92	55.74	-27.82	Average
2	0.15	22.39	0.40	9.87	32.66	65.74	-33.08	QP
3	0.23	22.88	0.37	9.87	33.12	52.44	-19.32	Average
4	0.23	24.19	0.37	9.87	34.43	62.44	-28.01	QP -
5	0.69	14.46	0.20	9.86	24.52	46.00	-21.48	Average
6	0.69	17.92	0.20	9.86	27.98	56.00	-28.02	QP -
7	1.93	12.10	0.20	9.86	22.16	46.00	-23.84	Average
8	1.93	16.42	0.20	9.86	26.48	56.00	-29.52	QP
9	6.32	13.03	0.37	9.97	23.37	50.00	-26.63	Average
10	6.32	16.76	0.37	9.97	27.10	60.00	-32.90	QP
11	12.85	12.80	0.46	10.01	23.27	50.00	-26.73	Average
12	12.85	18.31	0.46	10.01	28.78	60.00	-31.22	QP
No	Notes: Emission Level - Read Level + ISN Eactor + Cable loss							

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

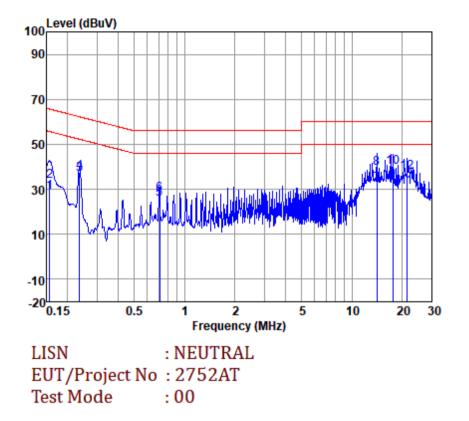


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Test Mode: 00; Line: Neutral Line

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.16	18.30	0.34	9.87	28.51	55.65	-27.14	Average
2	0.16	23.40	0.34	9.87	33.61	65.65	-32.04	QP
3	0.24	26.68	0.30	9.87	36.85	52.26	-15.41	Average
4	0.24	27.57	0.30	9.87	37.74	62.26	-24.52	QP -
5	0.71	15.39	0.30	9.86	25.55	46.00	-20.45	Average
6	0.71	17.84	0.30	9.86	28.00	56.00	-28.00	QP -
7	14.14	21.70	0.43	10.02	32.15	50.00	-17.85	Average
8	14.14	28.81	0.43	10.02	39.26	60.00	-20.74	QP
9	17.57	23.54	0.62	10.04	34.20	50.00	-15.80	Average
10	17.57	29.00	0.62	10.04	39.66	60.00	-20.34	QP -
11	21.37	20.01	0.89	10.06	30.96	50.00	-19.04	Average
12	21.37	26.56	0.89	10.06	37.51	60.00	-22.49	QP -
No	tes: Emi	ssion Le	 vel - D	and Leve	1 _1 TSN F	actor +	Cable los	

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



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7.2 Conducted Peak Output Power

Test Requirement	47 CFR Pa	rt 15, Subpart C 15.247(b)(1)	
Test Method:	ANSI C63.2	ANSI C63.10 (2013) Section 7.8.5	
Limit:			
Frequency range(MI	Hz)	Output power of the intentional radiator(watt)	
		1 for ≥50 hopping channels	
902-928		0.25 for 25≤ hopping channels <50	
		1 for digital modulation	

	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

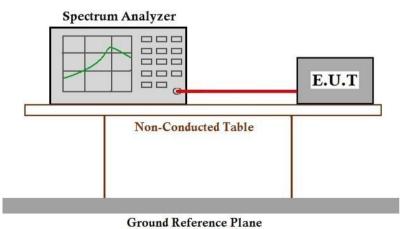
7.2.1 E.U.T. Operation

Operating Enviror	nmen	t:						
Temperature:	22	°C	Humidity:	50	% RH	Atmospheric Pressure:	1010	mbar

7.2.2 Test Mode Description

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

7.2.3 Test Setup Diagram



SGS-CS1 Constant Services Exe Services SGS-CS1 Constant Services Exe Envices SGS-CS1 Constant Services SGS-CS1 Constant

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7.2.4 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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7.3 20dB Bandwidth

Test Requirement	47 CFR Part 15, Subpart C 15.247(a)(1)
Test Method:	ANSI C63.10 (2013) Section 7.8.7

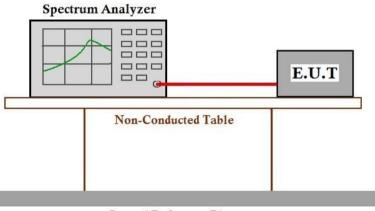
7.3.1 E.U.T. Operation

Operating Enviro	nmen	t:				
Temperature:	22	°C	Humidity:	50	% RH	Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

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

7.3.3 Test Setup Diagram



Ground Reference Plane

7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.4 Carrier Frequencies Separation

Test Requirement	47 CFR Part 15, Subpart C 15.247a(1)
Test Method:	ANSI C63.10 (2013) Section 7.8.2

Limit:

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

7.4.1 E.U.T. Operation

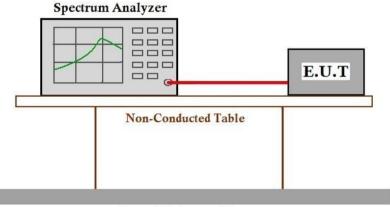
Operating Environment:

Temperature:	22	°C	Humidity:	50	% RH	Atmospheric Pressure:	1010	mbar
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7.4.2 Test Mode Description

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

7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.5 Hopping Channel Number

Test Requirement	47 CFR Part 15, Subpart C 15.247a(1)(iii)
Test Method:	ANSI C63.10 (2013) Section 7.8.3
Limit:	

Frequency range(MHz)	Number of hopping channels (minimum)
002.020	50 for 20dB bandwidth <250kHz
902-928	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

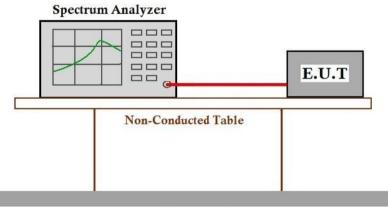
7.5.1 E.U.T. Operation

Operating Enviror	ment	t:						
Temperature:	22	°C	Humidity:	50	% RH	Atmospheric Pressure:	1010	mbar

7.5.2 Test Mode Description

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

7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

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7.6 Dwell Time

Test Requirement47 CTest Method:ANSLimit:

47 CFR Part 15, Subpart C 15.247a(1)(iii) ANSI C63.10 (2013) Section 7.8.4

Frequency(MHz)	Limit
002.028	0.4S within a 20S period(20dB bandwidth<250kHz)
902-928	0.4S within a 10S period(20dB bandwidth≥250kHz)
0400 0400 5	0.4S within a period of 0.4S multiplied by the number
2400-2483.5	of hopping channels
5725-5850	0.4S within a 30S period

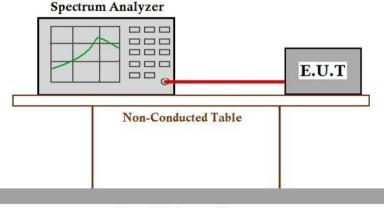
7.6.1 E.U.T. Operation

Operating Enviror	nment	t:					
Temperature:	22	°C	Humidity:	50	% RH	Atmospheric Pressure: 10	10 mbar

7.6.2 Test Mode Description

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

7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

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7.7 Conducted Band Edges Measurement

Test	Requirement
Test	Method:

47 CFR Part 15, Subpart C 15.247(d) ANSI C63.10 (2013) Section 7.8.6

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).

7.7.1 E.U.T. Operation

Operating Environment:

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

7.7.2 Test Mode Description

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



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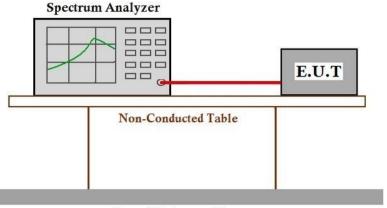
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7.7.3 Test Setup Diagram



Ground Reference Plane

7.7.4 Measurement Procedure and Data

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7.8 Conducted Spurious Emissions

Test F	Requirement	
Test N	/lethod:	

47 CFR Part 15, Subpart C 15.247(d) ANSI C63.10 (2013) Section 7.8.8

Limit:

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

7.8.1 E.U.T. Operation

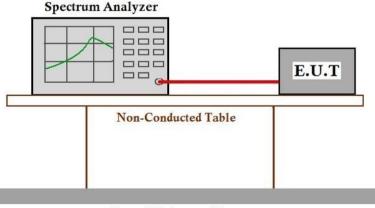
Operating Environment:

1 0			
Temperature:	22 °C	Humidity: 50 % RH	Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_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.

7.8.3 Test Setup Diagram



Ground Reference Plane



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7.8.4 Measurement Procedure and Data

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7.9 Radiated Emissions which fall in the restricted bands

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

Limit:

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

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

7.9.1 E.U.T. Operation

Operating Environment:

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

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_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.



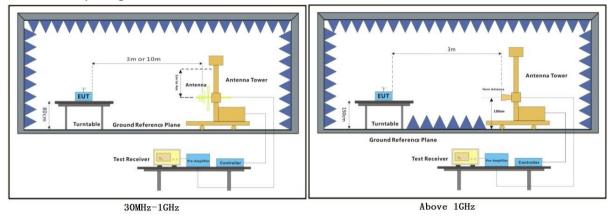
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7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

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

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

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

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

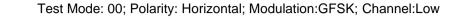


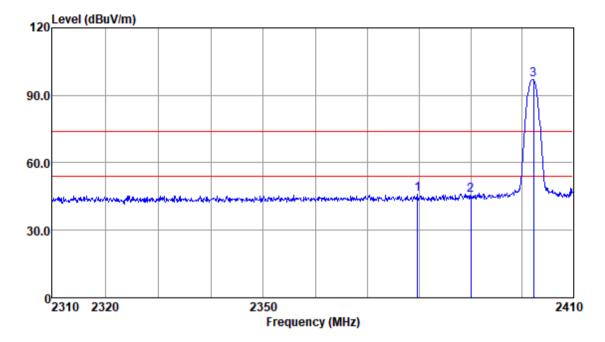
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Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2379.66	47.82	28.76	4.59	35.17	46.00	74.00	-28.00	Peak
2390.00	47.44	28.80	4.60	35.18	45.66	74.00	-28.34	Peak
2402.25	98.55	28.85	4.62	35.19	96.83	74.00	22.83	Peak

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



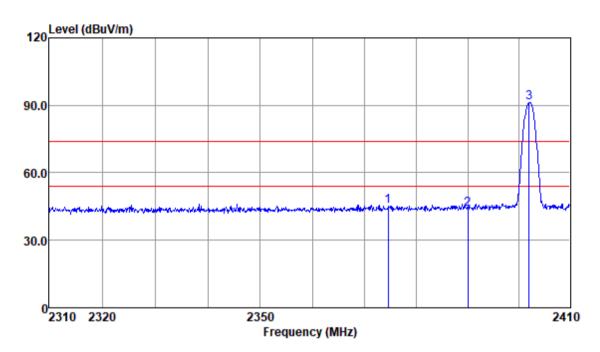
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 SHCR221200275201

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

Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2374.62	47.20	28.71	4.57	35.17	45.31	74.00	-28.69	Peak
2390.00	45.70	28.80	4.60	35.18	43.92	74.00	-30.08	Peak
2401.95	92.91	28.85	4.62	35.19	91.19	74.00	17.19	Peak

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

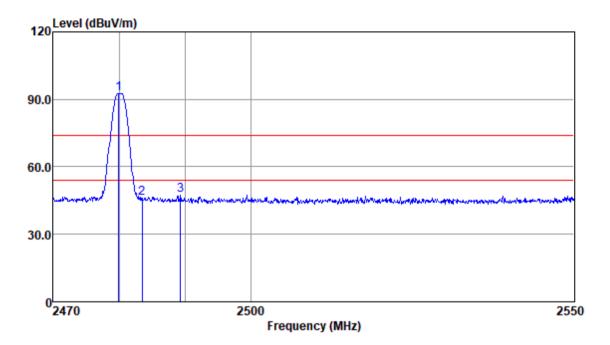


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High

Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.94	94.12	29.08	4.76	35.25	92.71	74.00	18.71	Peak
2483.50	47.45	29.09	4.78	35.26	46.06	74.00	-27.94	Peak
2489.29	48.69	29.10	4.79	35.26	47.32	74.00	-26.68	Peak

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

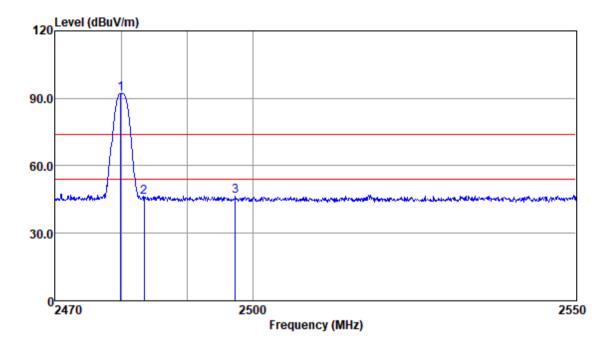


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High

Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.94	93.59	29.08	4.76	35.25	92.18	74.00	18.18	Peak
2483.50	47.39	29.09	4.78	35.26	46.00	74.00	-28.00	Peak
2497.39	47.69	29.12	4.80	35.27	46.34	74.00	-27.66	Peak

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



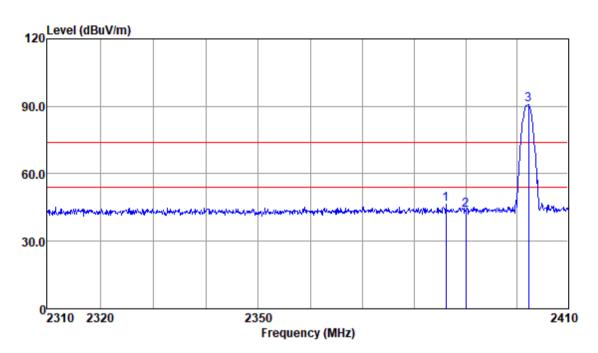
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Test Mode: 00; Polarity: Horizontal; Modulation:π/4 DQPSK; Channel:Low

Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2386.12	48.28	28.80	4.60	35.18	46.50	74.00	-27.50	Peak
2390.00	45.64	28.80	4.60	35.18	43.86	74.00	-30.14	Peak
2402.25	92.42	28.85	4.62	35.19	90.70	74.00	16.70	Peak

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

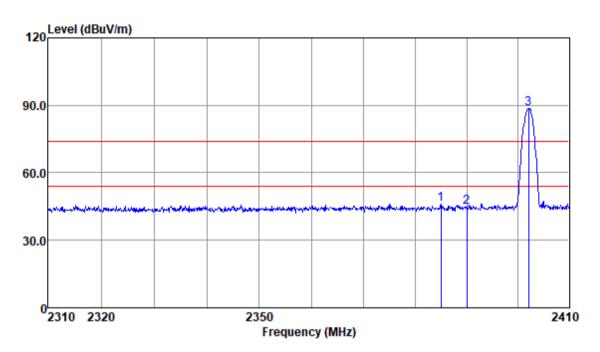


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Test Mode: 00; Polarity: Vertical; Modulation:π/4 DQPSK; Channel:Low

Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2385.01	47.67	28.80	4.60	35.18	45.89	74.00	-28.11	Peak
2390.00	46.61	28.80	4.60	35.18	44.83	74.00	-29.17	Peak
2402.05	90.39	28.85	4.62	35.19	88.67	74.00	14.67	Peak

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



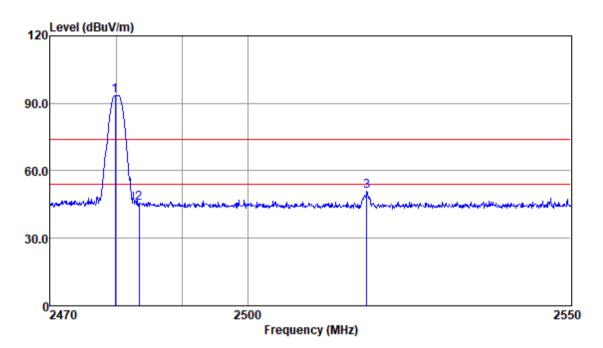
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Test Mode: 00; Polarity: Horizontal; Modulation:π/4 DQPSK; Channel:High

Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.86	95.04	29.08	4.76	35.25	93.63	74.00	19.63	Peak
2483.50	46.89	29.09	4.78	35.26	45.50	74.00	-28.50	Peak
2518.34	52.24	29.13	4.84	35.30	50.91	74.00	-23.09	Peak

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



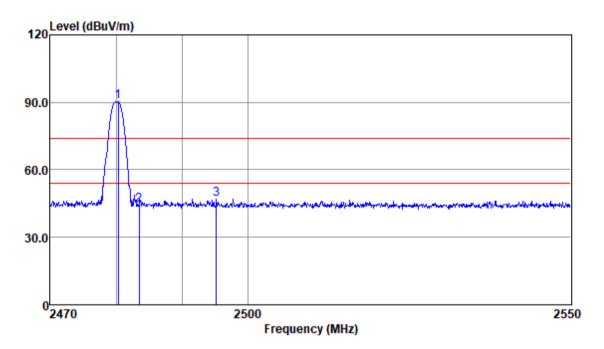
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Test Mode: 00; Polarity: Vertical; Modulation:π/4 DQPSK; Channel:High

Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2480.26	91.54	29.08	4.76	35.25	90.13	74.00	16.13	Peak
2483.50	45.85	29.09	4.78	35.26	44.46	74.00	-29.54	Peak
2495.24	48.41	29.10	4.79	35.26	47.04	74.00	-26.96	Peak

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

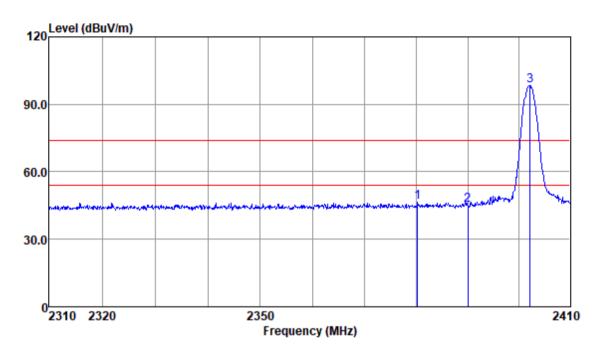


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Test Mode: 00; Polarity: Horizontal; Modulation:8DPSK; Channel:Low

Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2380.26	48.23	28.76	4.59	35.17	46.41	74.00	-27.59	Peak
2390.00	47.02	28.80	4.60	35.18	45.24	74.00	-28.76	Peak
2402.15	100.16	28.85	4.62	35.19	98.44	74.00	24.44	Peak

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



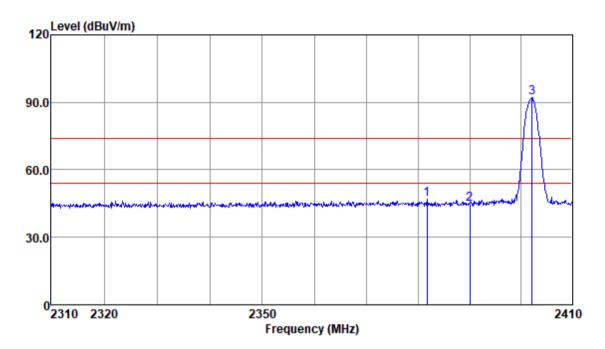
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Test Mode: 00; Polarity: Vertical; Modulation:8DPSK; Channel:Low

Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2381.67	48.57	28.76	4.59	35.17	46.75	74.00	-27.25	Peak
2390.00	46.45	28.80	4.60	35.18	44.67	74.00	-29.33	Peak
2402.15	93.84	28.85	4.62	35.19	92.12	74.00	18.12	Peak

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



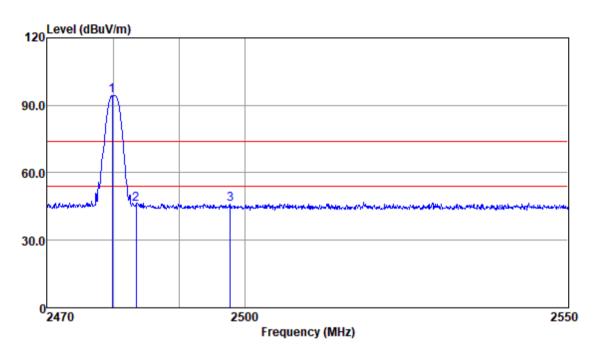
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Test Mode: 00; Polarity: Horizontal; Modulation:8DPSK; Channel:High

Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.86	95.73	29.08	4.76	35.25	94.32	74.00	20.32	Peak
2483.50	47.26	29.09	4.78	35.26	45.87	74.00	-28.13	Peak
2497.79	47.54	29.12	4.80	35.27	46.19	74.00	-27.81	Peak

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



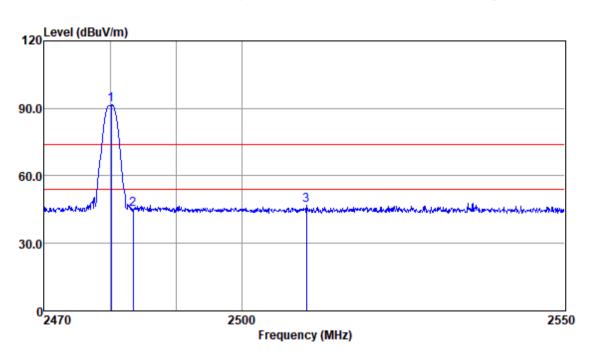
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Test Mode: 00; Polarity: Vertical; Modulation:8DPSK; Channel:High

Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2480.18	92.86	29.08	4.76	35.25	91.45	74.00	17.45	Peak
2483.50	46.47	29.09	4.78	35.26	45.08	74.00	-28.92	Peak
2509.92	48.35	29.13	4.81	35.28	47.01	74.00	-26.99	Peak

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



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7.10 Radiated Spurious Emissions Below 1GHz

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.4,6.5

Limit:

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

7.10.1 E.U.T. Operation

Operating Environment: Temperature: 22.0 °C

Humidity: 50.0 % RH

Atmospheric Pressure: 1010 mbar

7.10.2 Test Mode Description

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



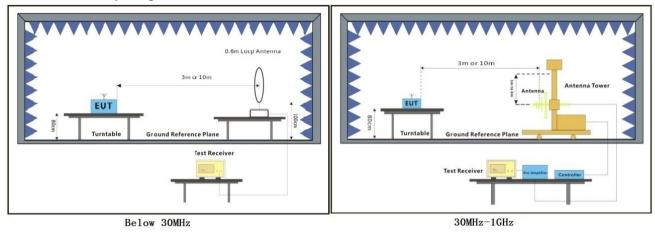
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7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

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

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

3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

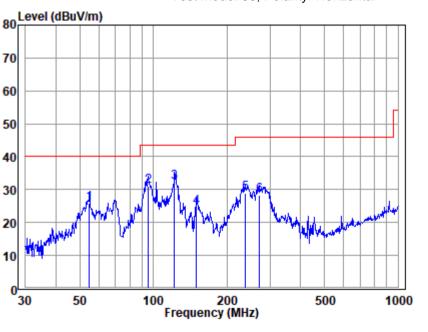


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Test Mode: 00; Polarity: Horizontal

Antenna Polarity	:Horizontal		
EUT/Project	:2752AT		
Test mode	:00		

	Freq					Emission Level			Remark
-	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	54.65	44.12	13.56	1.78	33.65	25.81	40.00	-14.19	QP
2	95.09	54.07	8.36	2.29	33.60	31.12	43.50	-12.38	QP
3	121.98	52.01	11.21	2.52	33.56	32.18	43.50	-11.32	QP
4	150.23	41.80	13.47	2.97	33.50	24.74	43.50	-18.76	QP
5	238.56	46.73	11.37	3.81	33.15	28.76	46.00	-17.24	QP
6	272.26	44.46	12.68	4.19	33.06	28.27	46.00	-17.73	QP

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



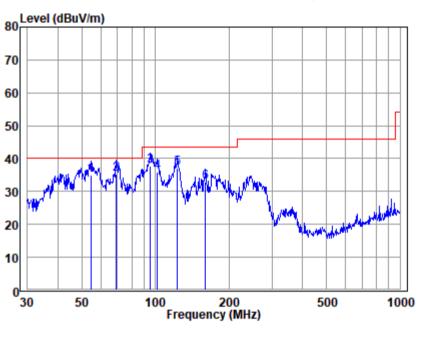
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Test Mode: 00; Polarity: Vertical

Antenna Polarity	:Vertical
EUT/Project	:2752AT
Test mode	:00

	Freq					Emission Level			Remark
-	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	54.37	53.43	13.58	1.77	33.66	35.12	40.00	-4.88	QP
2	69.39	55.30	11.59	2.09	33.60	35.38	40.00	-4.62	QP
3	95.57	60.70	8.41	2.30	33.60	37.81	43.50	-5.69	QP
4	101.58	57.79	9.21	2.38	33.60	35.78	43.50	-7.72	QP
5	123.22	56.89	11.33	2.54	33.55	37.21	43.50	-6.29	QP
6	160.49	49.90	13.35	3.11	33.46	32.90	43.50	-10.60	QP
									·

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



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7.11 Radiated Spurious Emissions Above 1GHz

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.6

Limit:

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

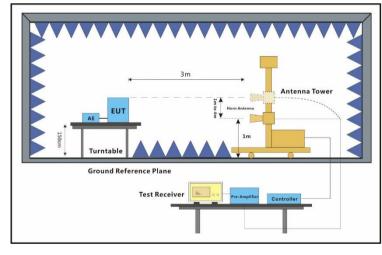
7.11.1 E.U.T. Operation

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

7.11.2 Test Mode Description

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

7.11.3 Test Setup Diagram





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7.11.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

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

2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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



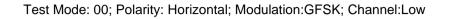
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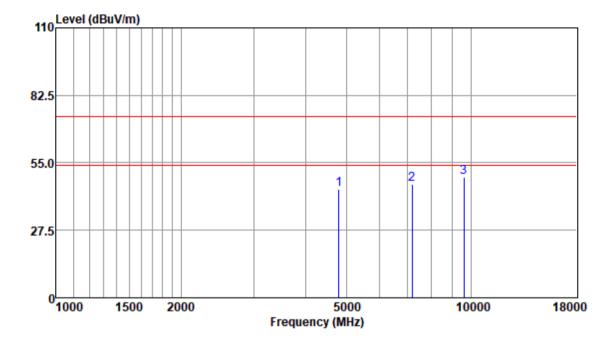
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Antenna Polarity :HORIZONTAL

Freq				-	Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	42.97	33.57	4.53	36.79	44.28	74.00	-29.72	Peak
7206.00	39.00	36.24	6.66	35.53	46.37	74.00	-27.63	Peak
9608.00	36.38	37.75	8.56	33.58	49.11	74.00	-24.89	Peak

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



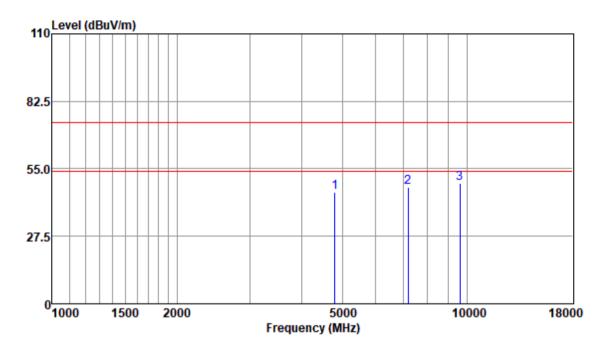
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low

Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	44.05	33.57	4.53	36.79	45.36	74.00	-28.64	Peak
7206.00	40.27	36.24	6.66	35.53	47.64	74.00	-26.36	Peak
9608.00	36.33	37.75	8.56	33.58	49.06	74.00	-24.94	Peak

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



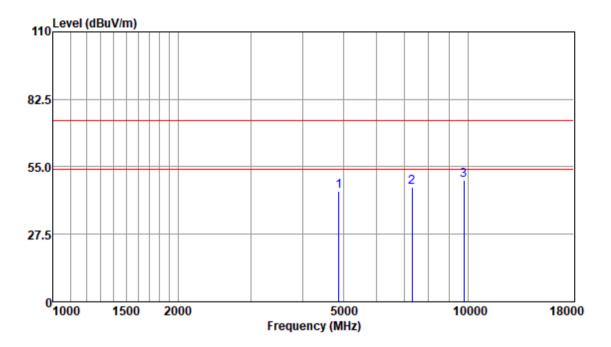
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle

Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4882.00	43.29	33.66	4.73	36.81	44.87	74.00	-29.13	Peak
7323.00	39.34	36.33	6.59	35.42	46.84	74.00	-27.16	Peak
9764.00	36.81	37.54	8.70	33.50	49.55	74.00	-24.45	Peak

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



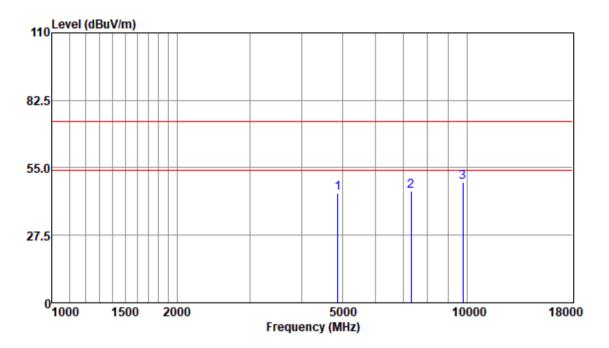
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle

Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4882.00	43.04	33.66	4.73	36.81	44.62	74.00	-29.38	Peak
7323.00	38.01	36.33	6.59	35.42	45.51	74.00	-28.49	Peak
9764.00	36.23	37.54	8.70	33.50	48.97	74.00	-25.03	Peak

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



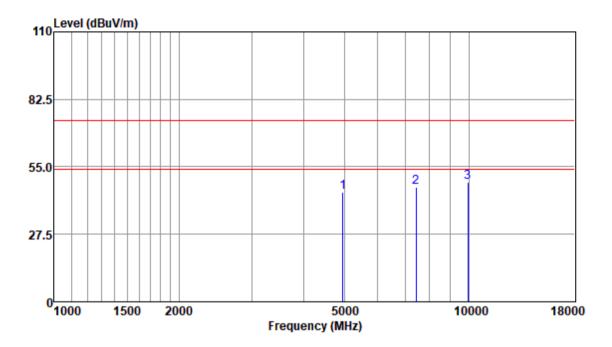
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High

Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	42.44	33.98	4.92	36.83	44.51	74.00	-29.49	Peak
7440.00	39.20	36.40	6.61	35.34	46.87	74.00	-27.13	Peak
9920.00	35.38	37.81	8.87	33.41	48.65	74.00	-25.35	Peak

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



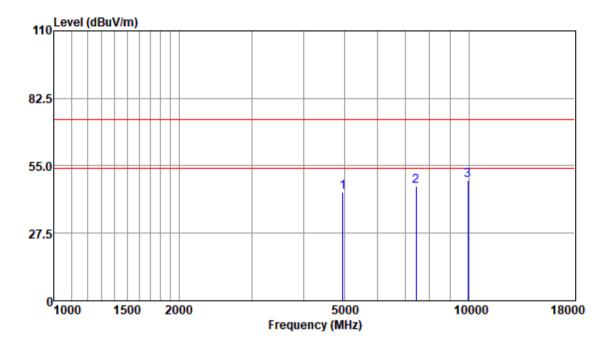
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High

Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	42.67	33.65	4.92	36.83	44.41	74.00	-29.59	Peak
7440.00	39.27	36.31	6.61	35.34	46.85	74.00	-27.15	Peak
9920.00	36.19	37.62	8.87	33.41	49.27	74.00	-24.73	Peak

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



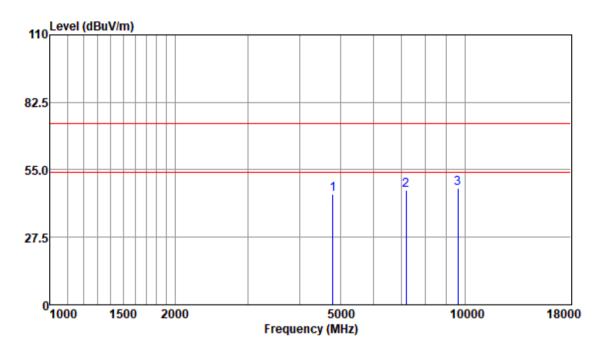
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Test Mode: 00; Polarity: Horizontal; Modulation:π/4 DQPSK; Channel:Low

Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	43.56	33.57	4.53	36.79	44.87	74.00	-29.13	Peak
7206.00	39.44	36.24	6.66	35.53	46.81	74.00	-27.19	Peak
9608.00	34.78	37.75	8.56	33.58	47.51	74.00	-26.49	Peak

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

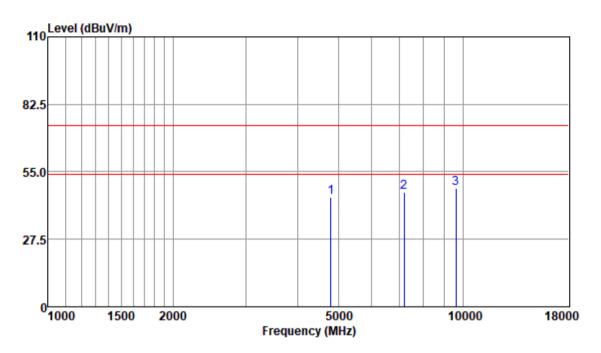


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Test Mode: 00; Polarity: Vertical; Modulation:π/4 DQPSK; Channel:Low

Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	43.06	33.72	4.53	36.79	44.52	74.00	-29.48	Peak
7206.00	39.17	36.28	6.66	35.53	46.58	74.00	-27.42	Peak
9608.00	35.48	37.70	8.56	33.58	48.16	74.00	-25.84	Peak

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



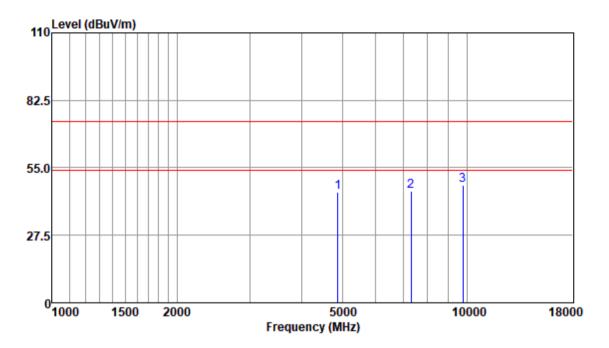
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Test Mode: 00; Polarity: Horizontal; Modulation:π/4 DQPSK; Channel:middle

Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4882.00	43.30	33.66	4.73	36.81	44.88	74.00	-29.12	Peak
7323.00	37.78	36.33	6.59	35.42	45.28	74.00	-28.72	Peak
9764.00	35.20	37.54	8.70	33.50	47.94	74.00	-26.06	Peak

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



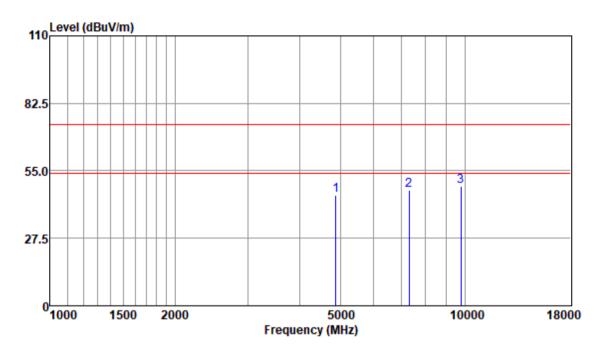
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Test Mode: 00; Polarity: Vertical; Modulation:π/4 DQPSK; Channel:middle

Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4882.00	43.67	33.66	4.73	36.81	45.25	74.00	-28.75	Peak
7323.00	39.48	36.33	6.59	35.42	46.98	74.00	-27.02	Peak
9764.00	35.80	37.54	8.70	33.50	48.54	74.00	-25.46	Peak

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



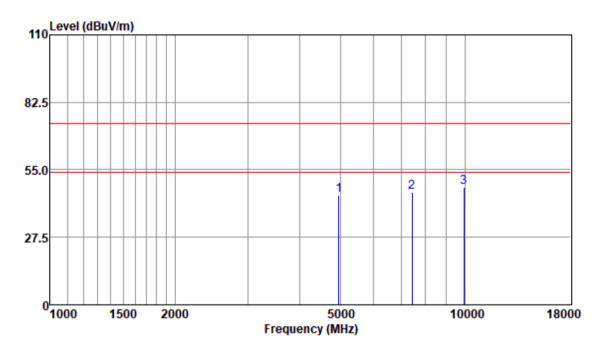
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Test Mode: 00; Polarity: Horizontal; Modulation:π/4 DQPSK; Channel:High

Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	42.78	33.65	4.92	36.83	44.52	74.00	-29.48	Peak
7440.00	38.09	36.31	6.61	35.34	45.67	74.00	-28.33	Peak
9920.00	34.77	37.62	8.87	33.41	47.85	74.00	-26.15	Peak

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



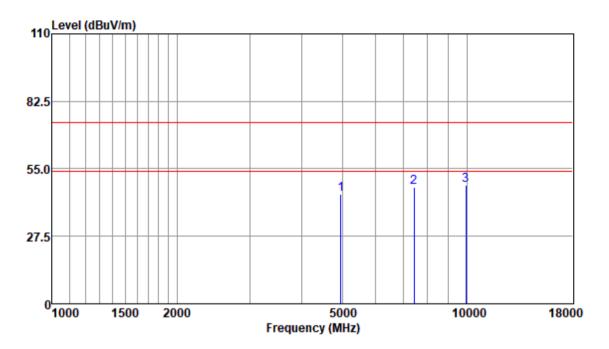
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Test Mode: 00; Polarity: Vertical; Modulation:π/4 DQPSK; Channel:High

Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	42.88	33.65	4.92	36.83	44.62	74.00	-29.38	Peak
7440.00	39.94	36.31	6.61	35.34	47.52	74.00	-26.48	Peak
9920.00	35.18	37.62	8.87	33.41	48.26	74.00	-25.74	Peak

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

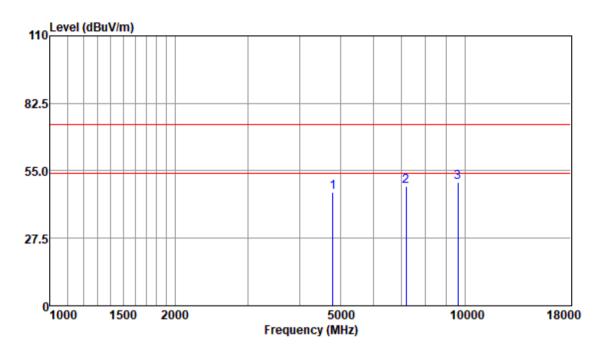


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Test Mode: 00; Polarity: Horizontal; Modulation:8DPSK; Channel:Low

Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	45.07	33.57	4.53	36.79	46.38	74.00	-27.62	Peak
7206.00	41.17	36.24	6.66	35.53	48.54	74.00	-25.46	Peak
9608.00	37.56	37.75	8.56	33.58	50.29	74.00	-23.71	Peak

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



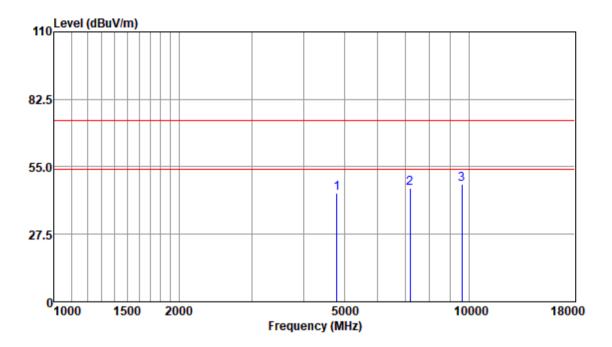
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Test Mode: 00; Polarity: Vertical; Modulation:8DPSK; Channel:Low

Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	42.94	33.57	4.53	36.79	44.25	74.00	-29.75	Peak
7206.00	38.98	36.24	6.66	35.53	46.35	74.00	-27.65	Peak
9608.00	35.21	37.75	8.56	33.58	47.94	74.00	-26.06	Peak

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

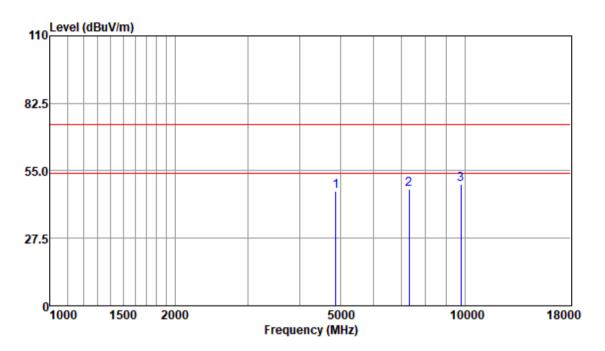


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Test Mode: 00; Polarity: Horizontal; Modulation:8DPSK; Channel:middle

Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4882.00	44.97	33.66	4.73	36.81	46.55	74.00	-27.45	Peak
7323.00	40.08	36.33	6.59	35.42	47.58	74.00	-26.42	Peak
9764.00	36.77	37.54	8.70	33.50	49.51	74.00	-24.49	Peak

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

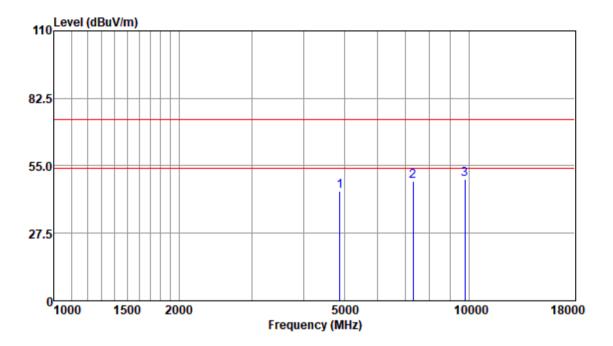


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Test Mode: 00; Polarity: Vertical; Modulation:8DPSK; Channel:middle

Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4882.00	43.13	33.66	4.73	36.81	44.71	74.00	-29.29	Peak
7323.00	41.15	36.33	6.59	35.42	48.65	74.00	-25.35	Peak
9764.00	36.78	37.54	8.70	33.50	49.52	74.00	-24.48	Peak

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

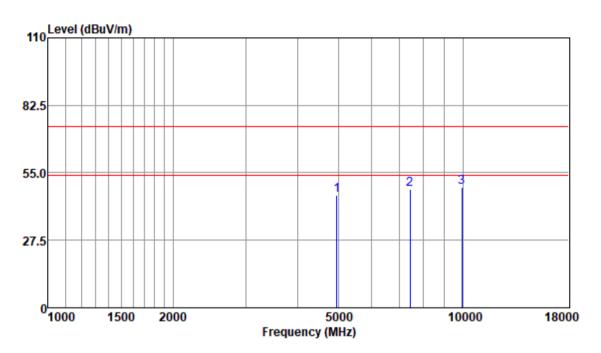


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Test Mode: 00; Polarity: Horizontal; Modulation:8DPSK; Channel:High

Antenna Polarity :HORIZONTAL

							Remark
dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
44.23	33.65	4.92	36.83	45.97	74.00	-28.03	Peak
40.57	36.31	6.61	35.34	48.15	74.00	-25.85	Peak
35.91	37.62	8.87	33.41	48.99	74.00	-25.01	Peak
	Level dBuv 44.23 40.57	Level Factor dBuv dB/m 44.23 33.65 40.57 36.31	Level Factor Loss dBuv dB/m dB 44.23 33.65 4.92 40.57 36.31 6.61	Level Factor Loss Factor dBuv dB/m dB dB 44.23 33.65 4.92 36.83 40.57 36.31 6.61 35.34	Level Factor Loss Factor Level dBuv dB/m dB dB dBuv/m 44.23 33.65 4.92 36.83 45.97 40.57 36.31 6.61 35.34 48.15	Level Factor Loss Factor Level Line dBuv dB/m dB dB dBuv/m dBuv/m 44.23 33.65 4.92 36.83 45.97 74.00 40.57 36.31 6.61 35.34 48.15 74.00	Read Antenna Cable Preamp Emission Limit Over Level Factor Loss Factor Level Line Limit dBuv dB/m dB dB dBuv/m dBuv/m dB 44.23 33.65 4.92 36.83 45.97 74.00 -28.03 40.57 36.31 6.61 35.34 48.15 74.00 -25.85 35.91 37.62 8.87 33.41 48.99 74.00 -25.01

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

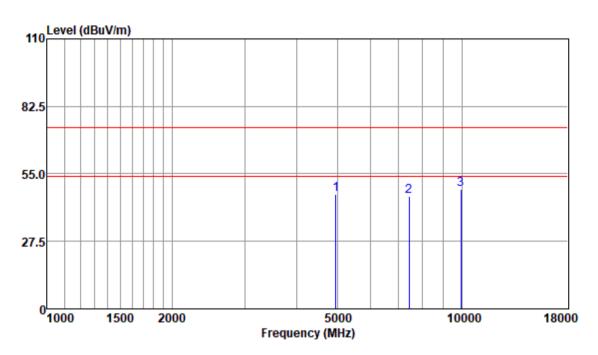


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Test Mode: 00; Polarity: Vertical; Modulation:8DPSK; Channel:High

Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	44.77	33.65	4.92	36.83	46.51	74.00	-27.49	Peak
7440.00	38.49	36.31	6.61	35.34	46.07	74.00	-27.93	Peak
9920.00	35.51	37.62	8.87	33.41	48.59	74.00	-25.41	Peak

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



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7.12 99% Bandwidth

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

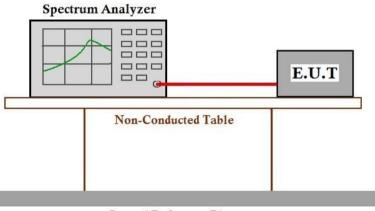
7.12.1 E.U.T. Operation

Operating Environment:									
Temperature:	20	°C	Humidity:	56	% RH	Atmospheric Pressure: 1010	mbar		

7.12.2 Test Mode Description

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

7.12.3 Test Setup Diagram



Ground Reference Plane

7.12.4 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 SHCR2212002752AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2212002752AT

10 Appendix

1. Bandwidth

1.1 OBW

1.1.1 Test Result

Mode	ТΧ	Frequency	Packet ANT	99% Occupied Bandwidth (MHz)	Verdict	
Widde	Туре	(MHz)	Туре			
		2402	DH5	1	0.833	Pass
GFSK	SISO	2441	DH5	1	0.833	Pass
		2480	DH5	1	0.830	Pass
		2402	2DH5	1	0.860	Pass
Pi/4DQPSK	SISO	2441	2DH5	DH5 1 0.861	Pass	
		2480	2DH5	1	0.862	Pass
		2402	3DH5	1	0.797	Pass
8DPSK	SISO	2441	3DH5	1	0.797	Pass
		2480	3DH5	1	0.791	Pass



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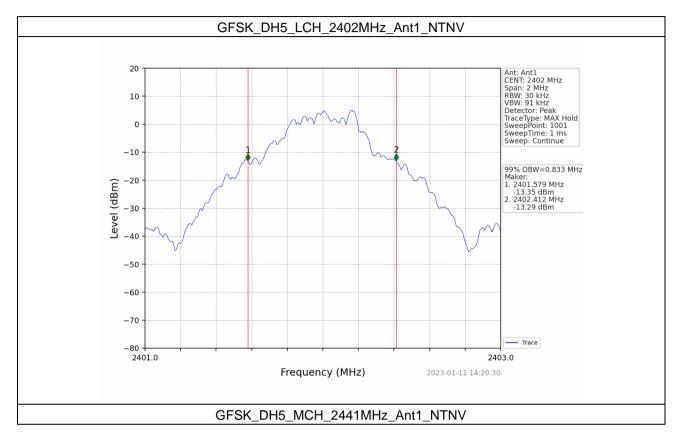
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1.1.2 Test Graph





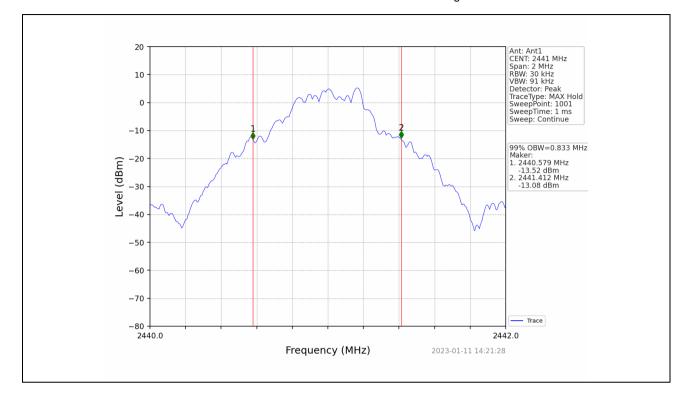
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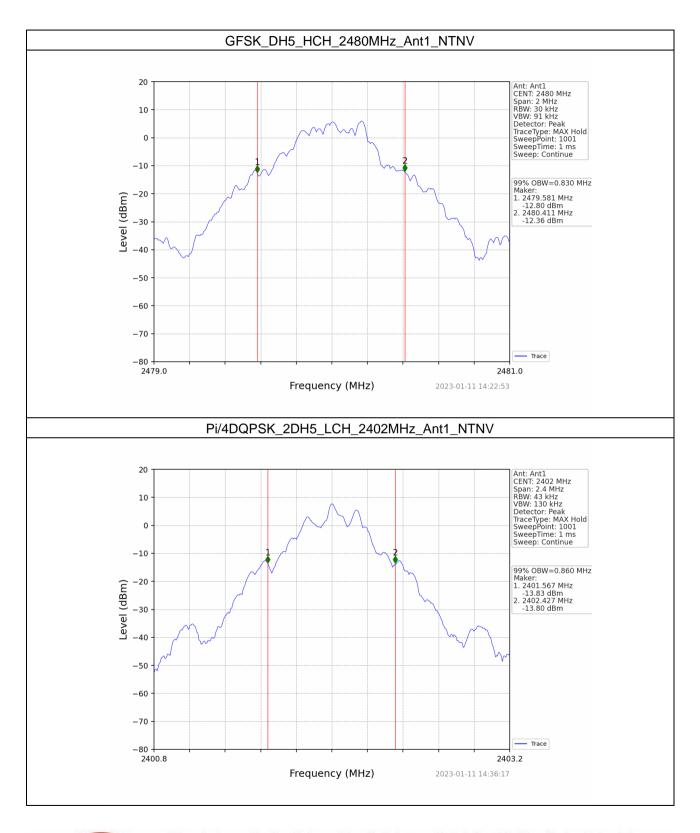
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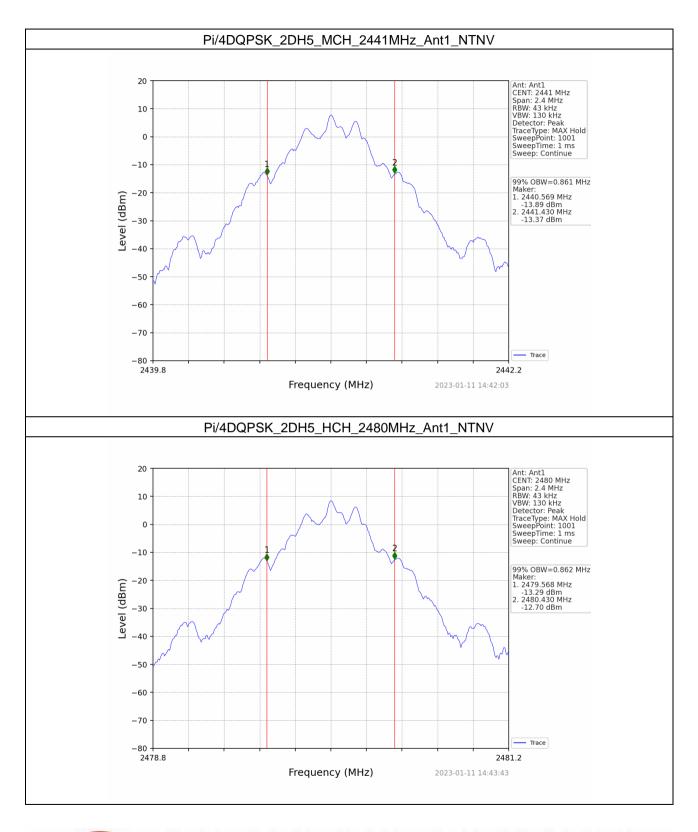
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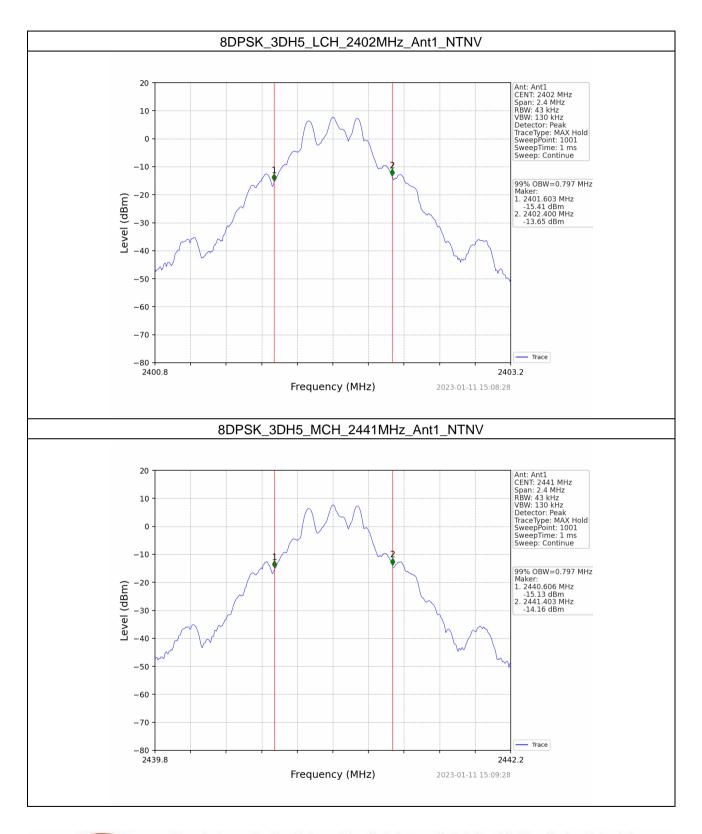
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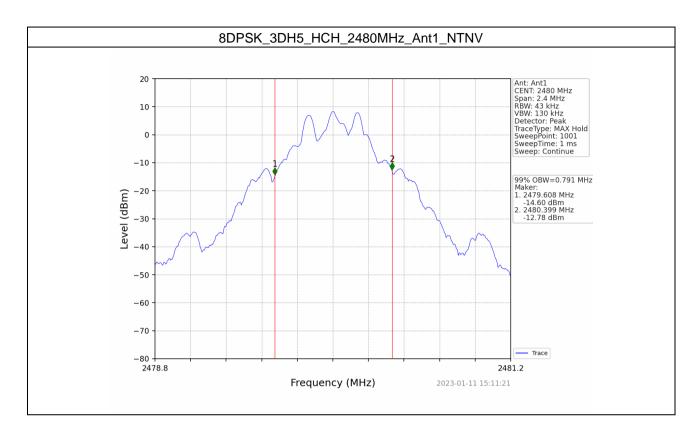
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1.2 20dB BW

1.2.1 Test Result

Mode	ТΧ	Frequency	Packet	ANT	20dB Bandwidth (MHz)	Verdict
WOUE	Туре	(MHz)	Туре	ANT	Result	verdict
		2402	DH5	1	0.935	Pass
GFSK	SISO	2441	DH5	1	0.934	Pass
		2480	DH5	1	0.934	Pass
		2402	2DH5	1	0.760	Pass
Pi/4DQPSK	SISO	2441	2DH5	1	0.759	Pass
		2480	2DH5	1	0.756	Pass
		2402	3DH5	1	0.757	Pass
8DPSK	SISO	2441	3DH5	1	0.755	Pass
		2480	3DH5	1	0.758	Pass



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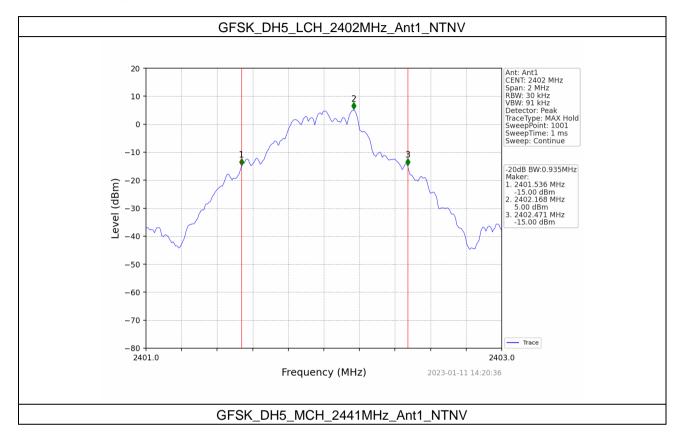
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1.2.2 Test Graph





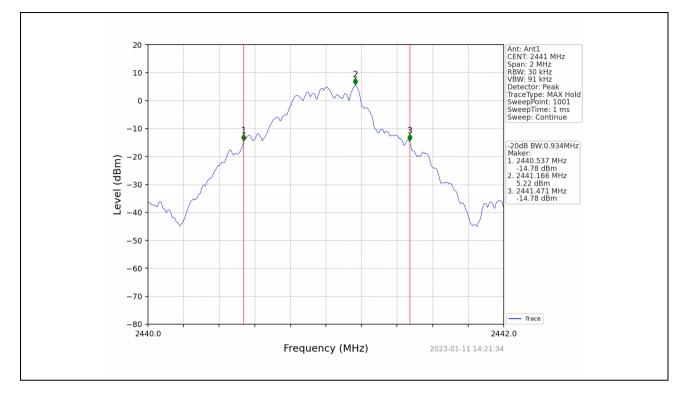
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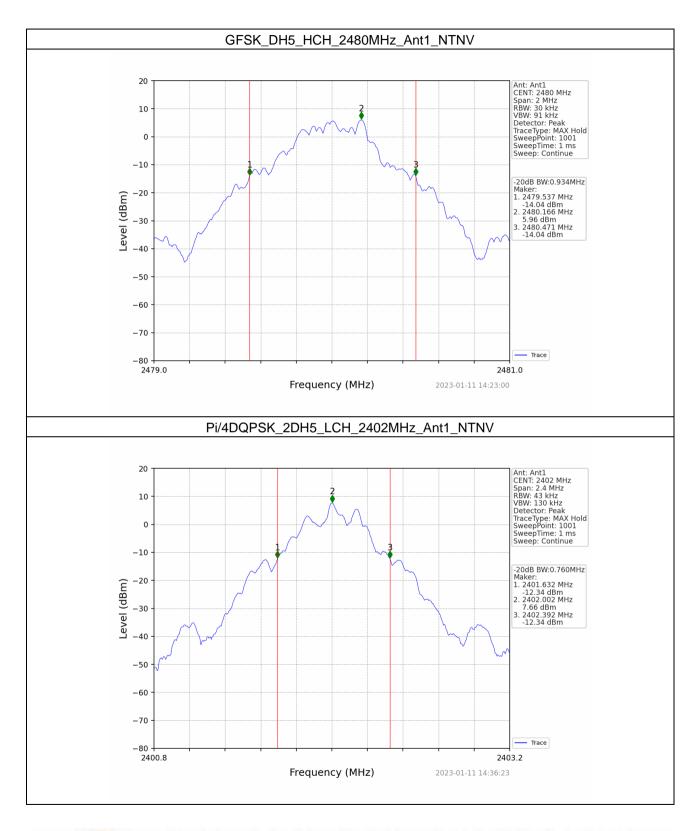
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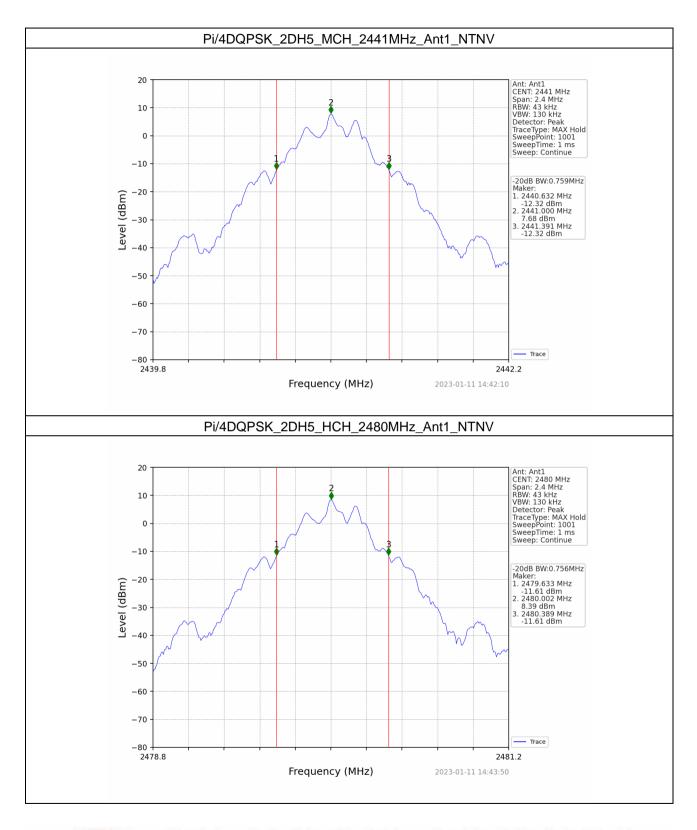
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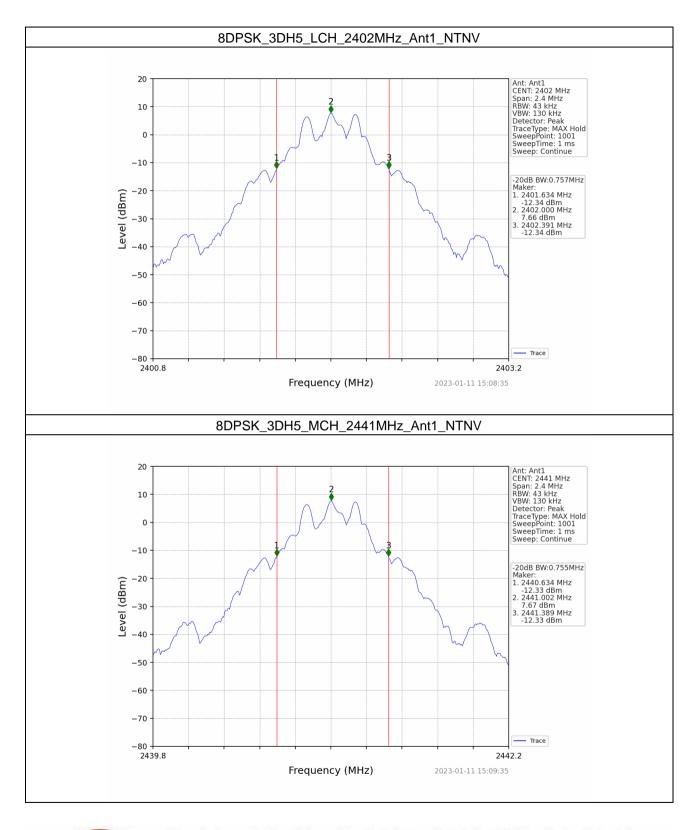
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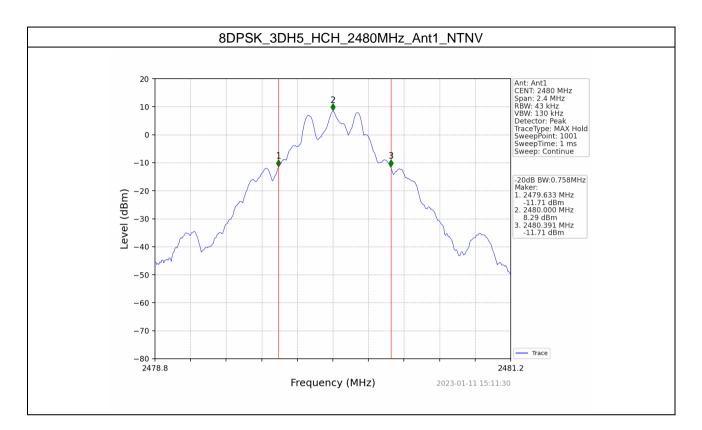
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2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

Mode	ТΧ	Frequency	Packet	Maximum Peak Conduct	ted Output Power (dBm)	Verdict
wode	Туре	(MHz)	Туре	ANT1	Limit	verdict
		2402	DH5	7.67	<=30	Pass
GFSK	SISO	2441	DH5	7.84	<=30	Pass
		2480	DH5	8.59	<=30	Pass
		2402	2DH5	7.85	<=30	Pass
Pi/4DQPSK SISO	SISO	2441	2DH5	7.87	<=30	Pass
		2480	2DH5	8.57	<=30	Pass
		2402	3DH5	7.84	<=30	Pass
8DPSK	SISO	SISO 2441	3DH5	7.85	<=30	Pass
		2480	3DH5	8.47	<=30	Pass
Note1: Anten	na Gain:	Ant1: 2.00dBi;				



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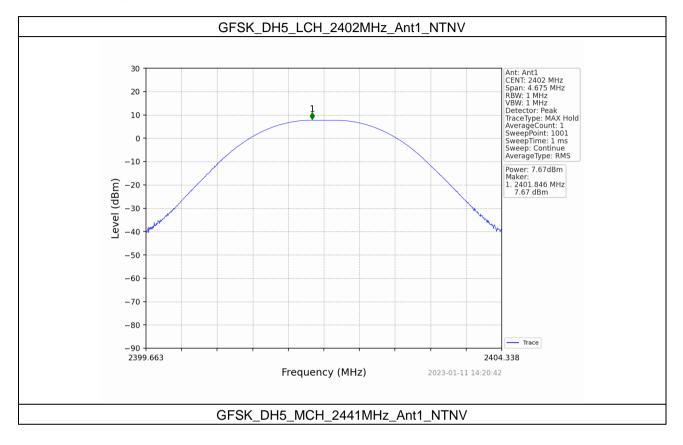
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2.1.2 Test Graph





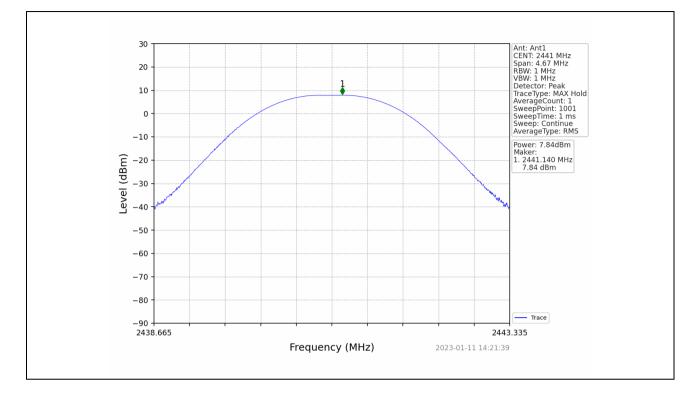
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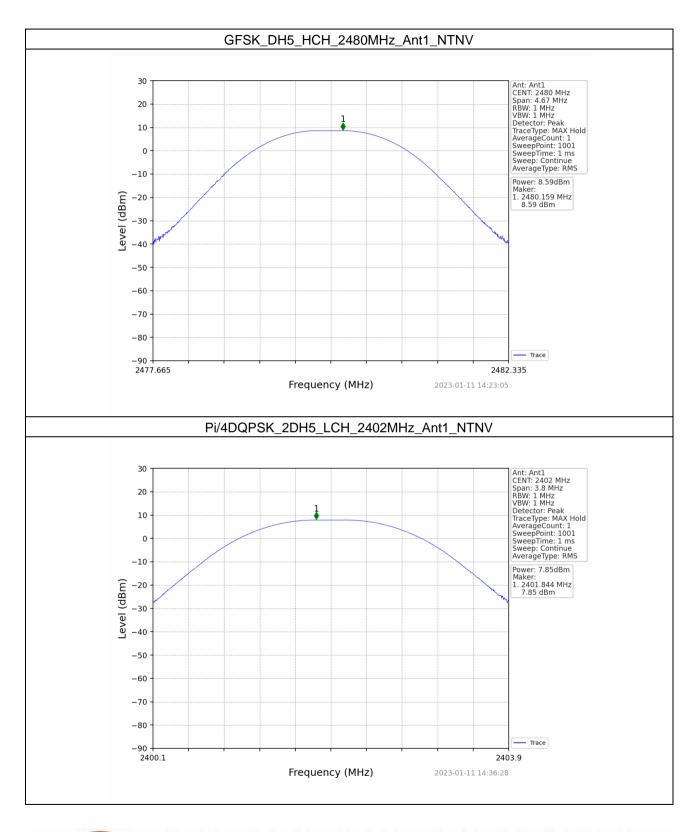
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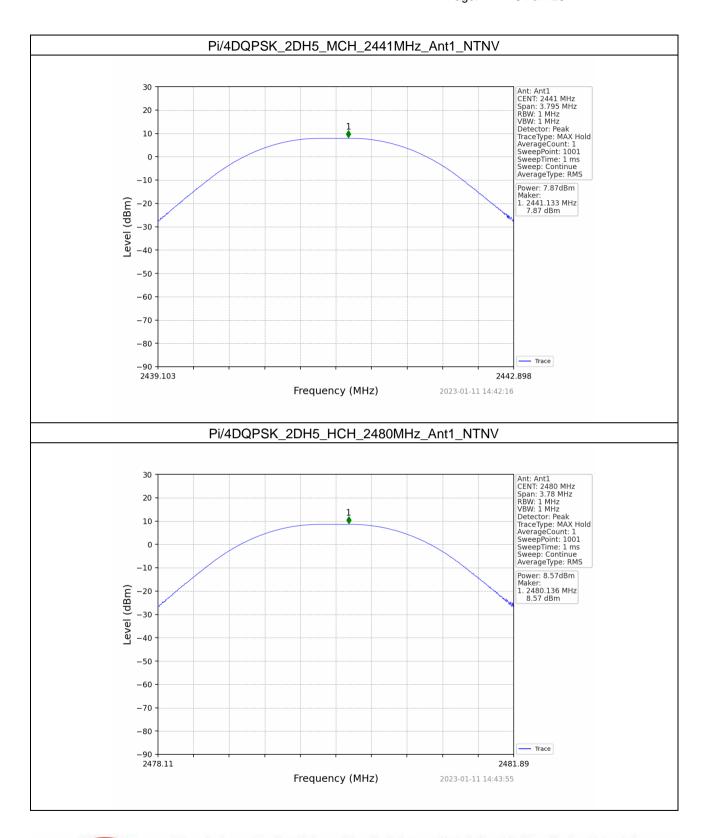


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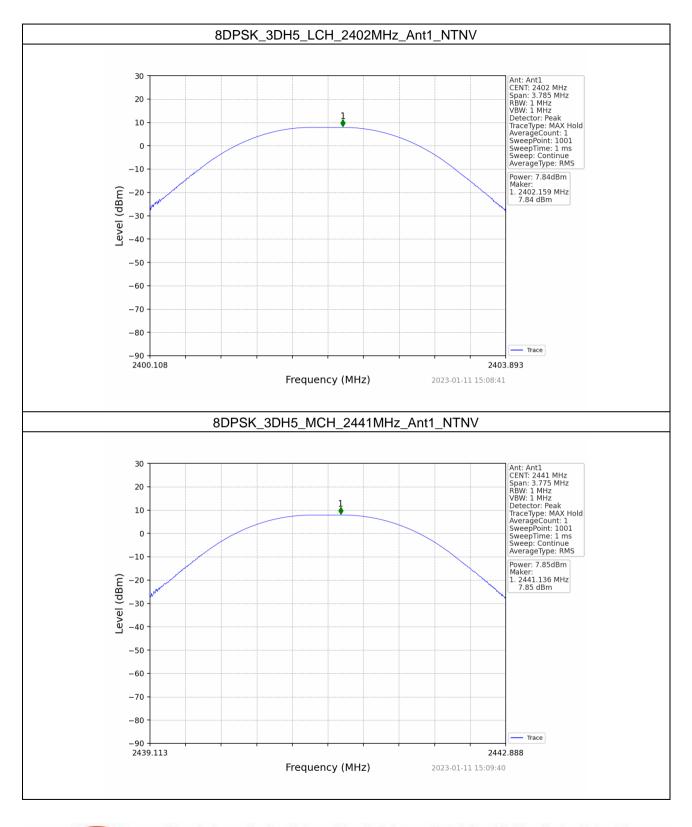
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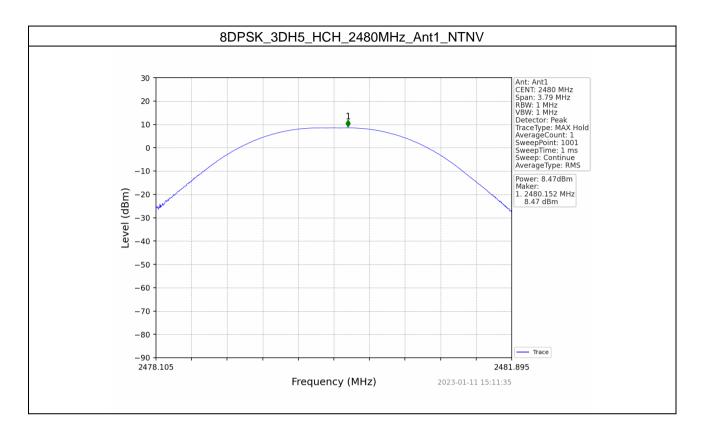
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3. Carrier Frequency Separation

- 3.1 Ant1
- 3.1.1 Test Result

Ant1								
Mode	ТХ Туре	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict	
GFSK	SISO	HOPP	DH5	1.002	0.935	>=0.935	Pass	
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	0.760	>=0.76	Pass	
8DPSK	SISO	HOPP	3DH5	0.998	0.758	>=0.758	Pass	



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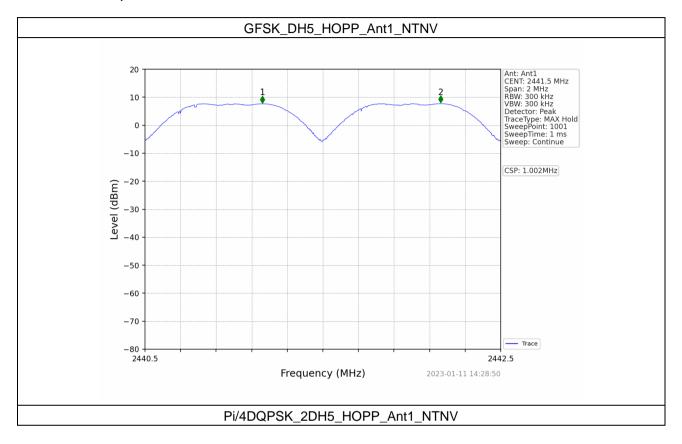
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3.1.2 Test Graph





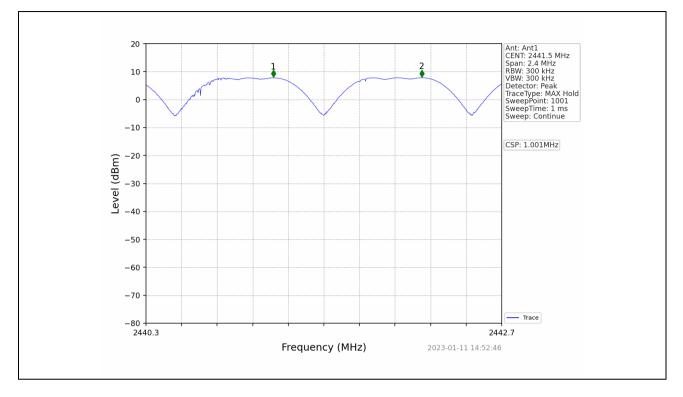
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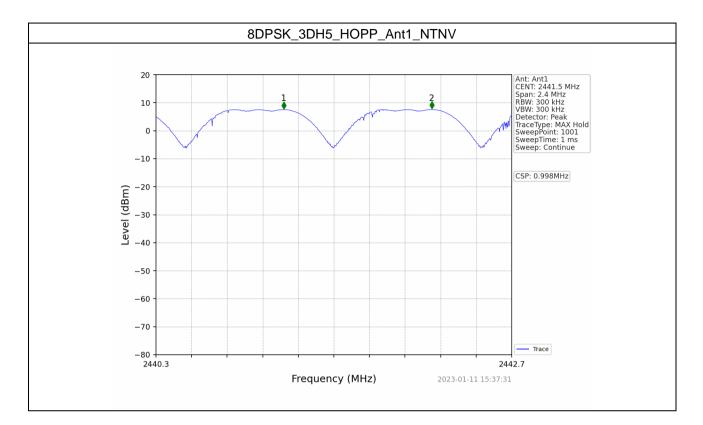
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4. Number of Hopping Frequencies

4.1 HoppNum

4.1.1 Test Result

Mode TX		Frequency	Packet	Num of Hoppir	g Frequencies	Verdict
Widde	Туре	(MHz)	Туре	ANT1	Limit	verdict
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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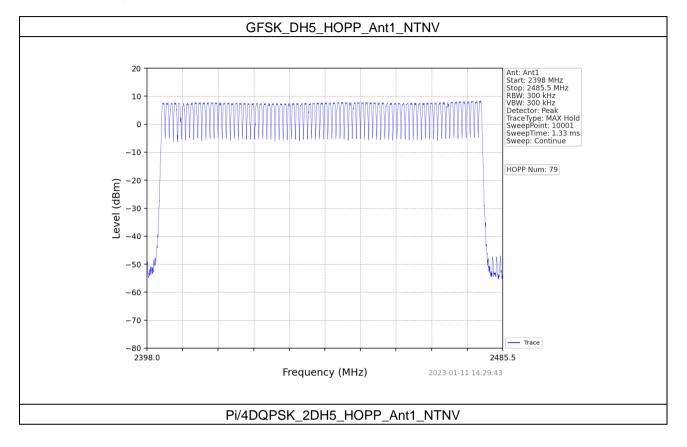
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4.1.2 Test Graph





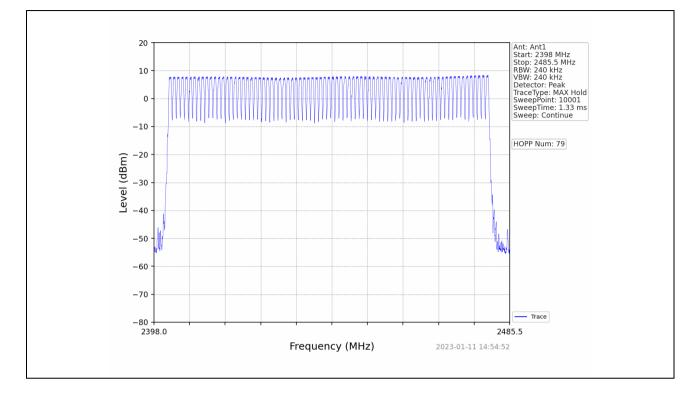
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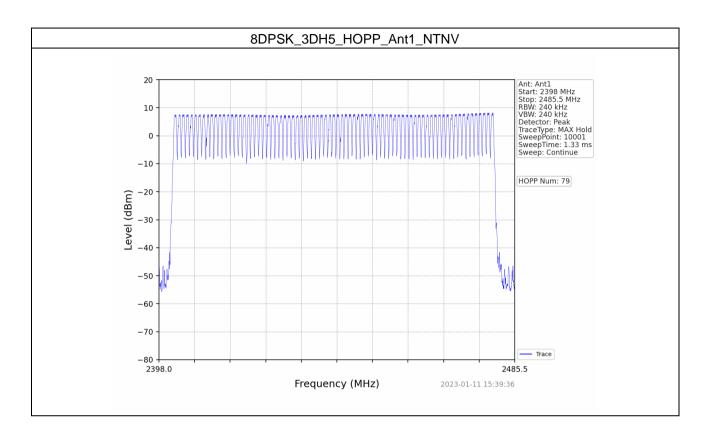
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5. Time of Occupancy (Dwell Time)

- 5.1 Ant1
- 5.1.1 Test Result

Ant1									
Mode	ТХ Туре	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
			DH1	0.198	31.600	320	63.360	<=400	Pass
GFSK	SISO	O HOPP	DH3	0.264	31.600	320	84.480	<=400	Pass
			DH5	0.298	31.600	320	95.360	<=400	Pass
		SO HOPP	2DH1	0.246	31.600	320	78.720	<=400	Pass
Pi/4DQPSK	SISO		2DH3	0.272	31.600	320	87.040	<=400	Pass
			2DH5	0.288	31.600	320	92.160	<=400	Pass
			3DH1	0.228	31.600	320	72.960	<=400	Pass
8DPSK	SISO	SISO HOPP	3DH3	0.238	31.600	320	76.160	<=400	Pass
			3DH5	0.248	31.600	320	79.360	<=400	Pass



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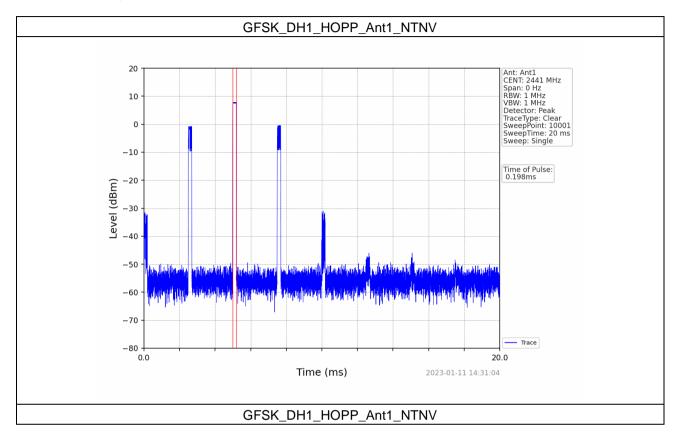
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5.1.2 Test Graph





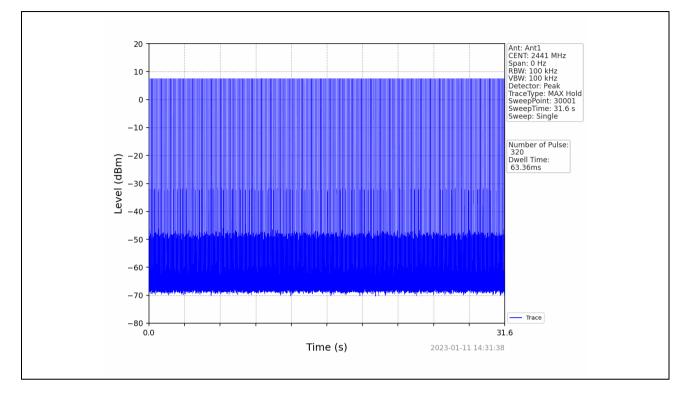
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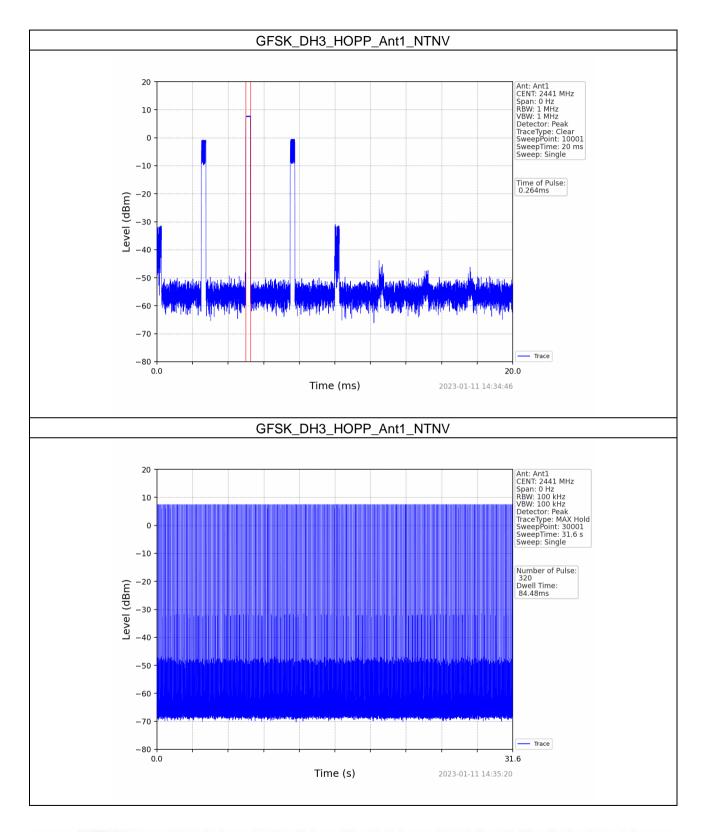
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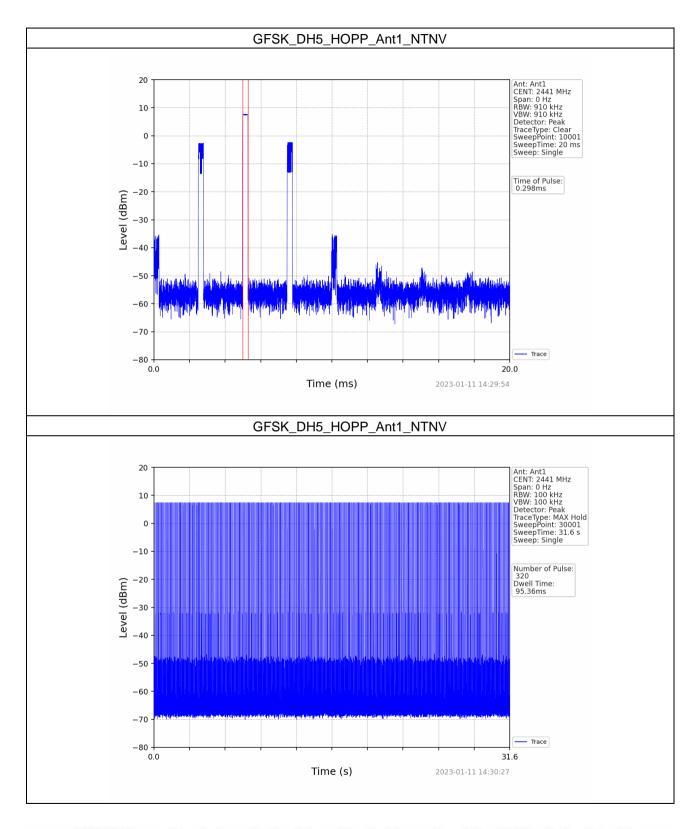
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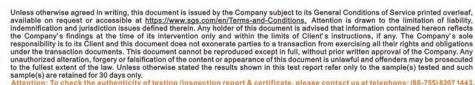
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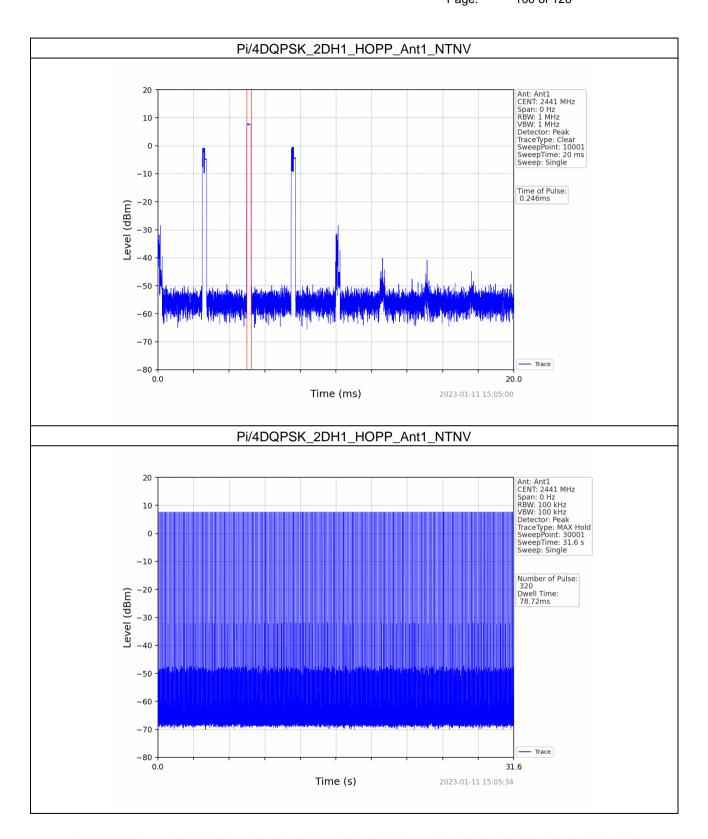
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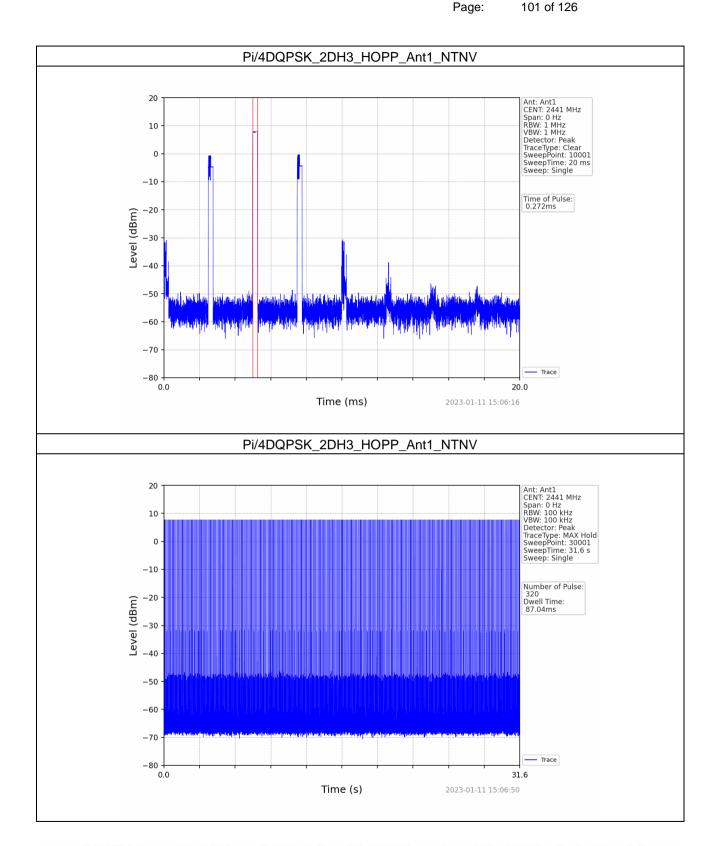


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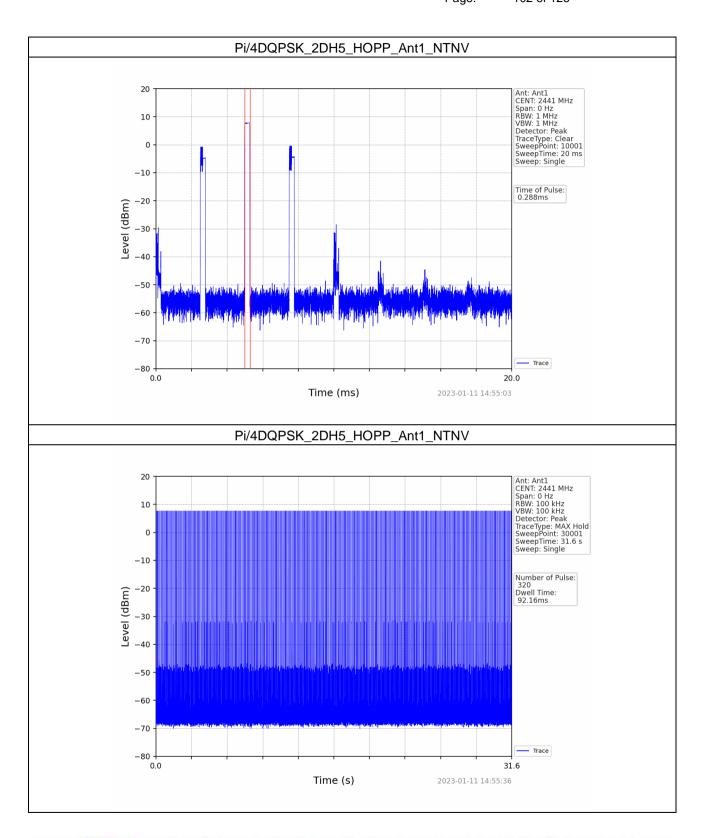
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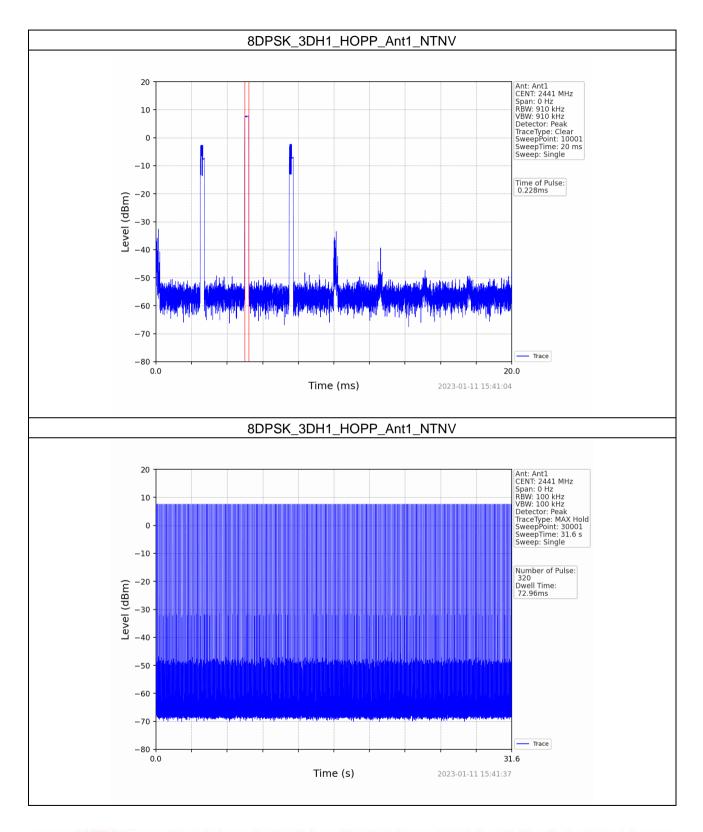
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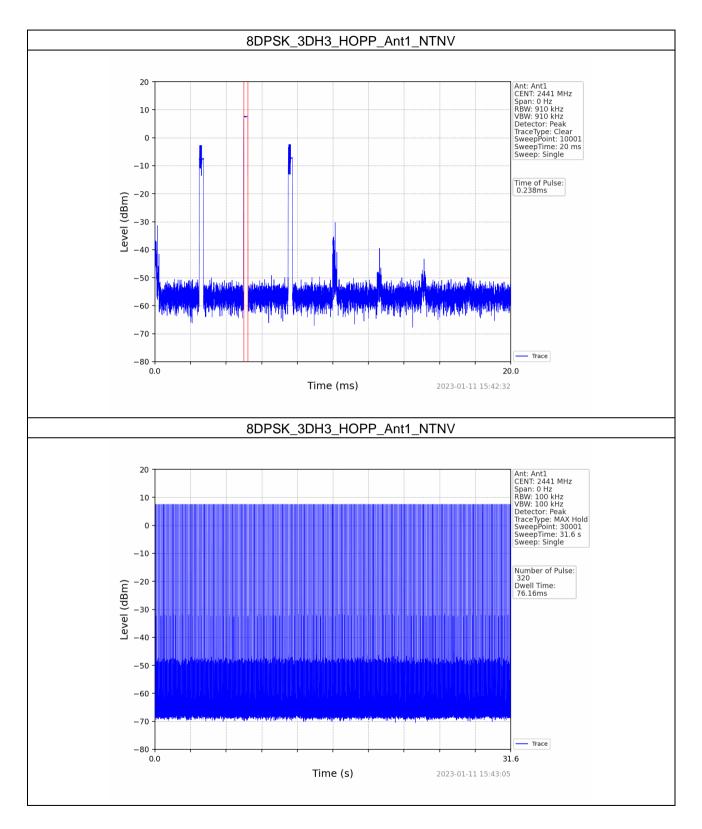
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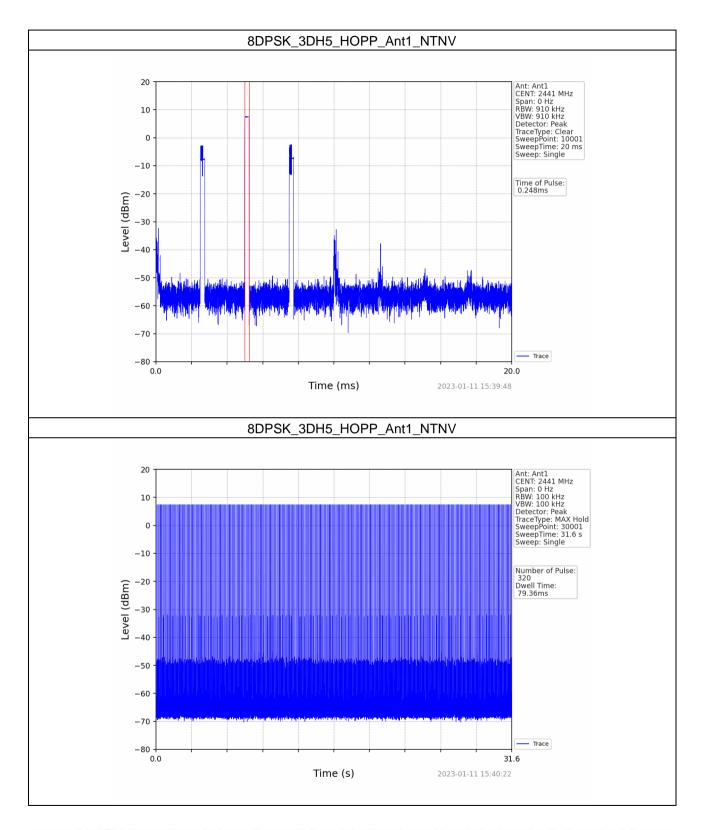
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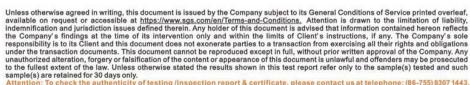
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6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

6.1.1 Test Result

Mode	ТХ Туре	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	
		2402	DH5	1	7.53	
GFSK	SISO	2441	DH5	1	7.71	
GFSK	Gran SISU	2480	DH5	1	8.46	
		2402	2DH5	1	7.66	
Pi/4DQPSK SISO	9190	2441	2DH5	1	7.68	
	3130	2480	2DH5	1	8.23	
		2402	3DH5	1	7.71	
8DPSK	SISO	2441	3DH5	1	7.73	
OUPSK	3130	2480	3DH5	1	8.33	
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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6.1.2 Test Graph





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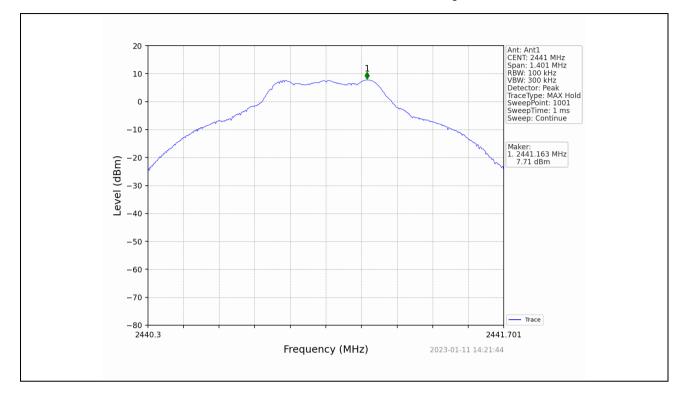
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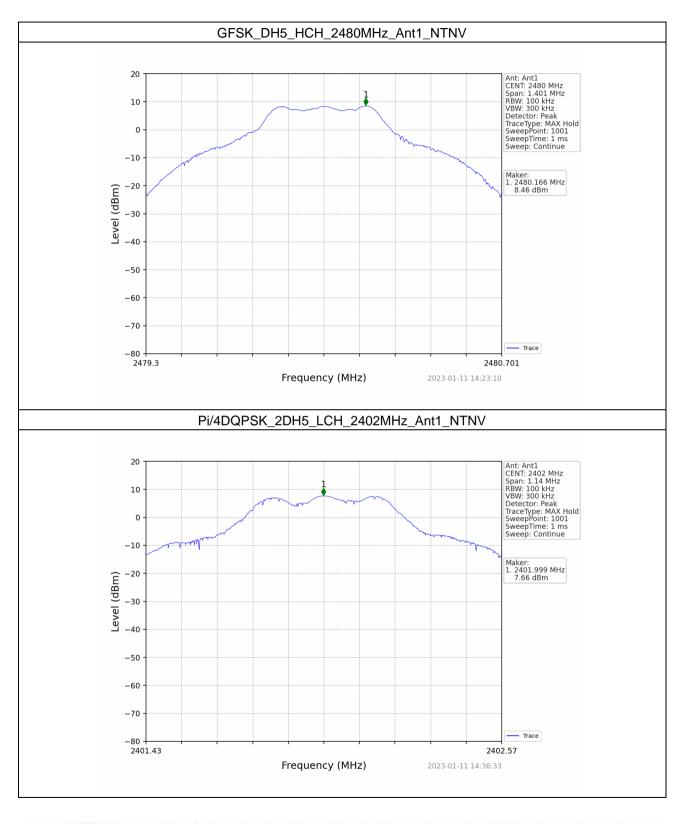
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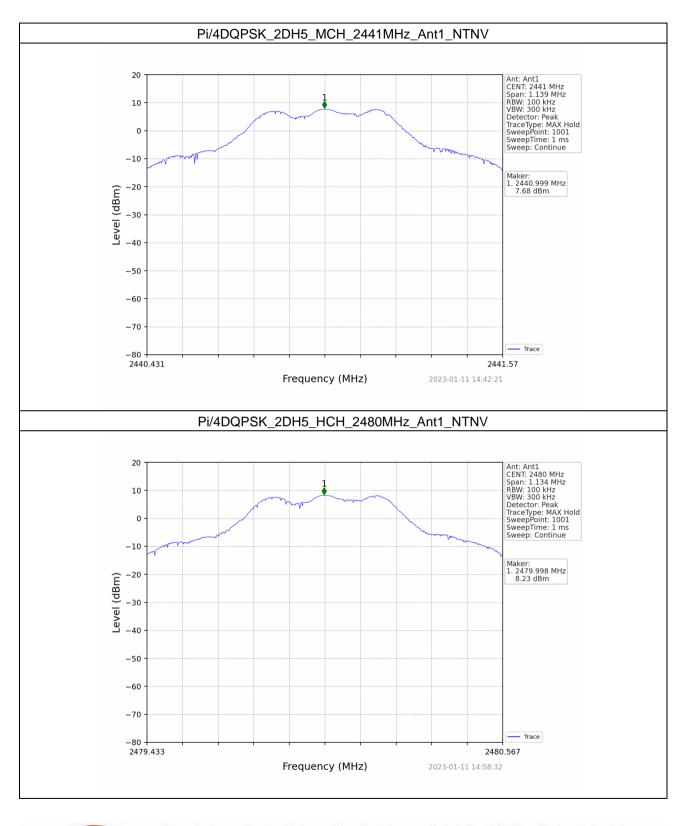
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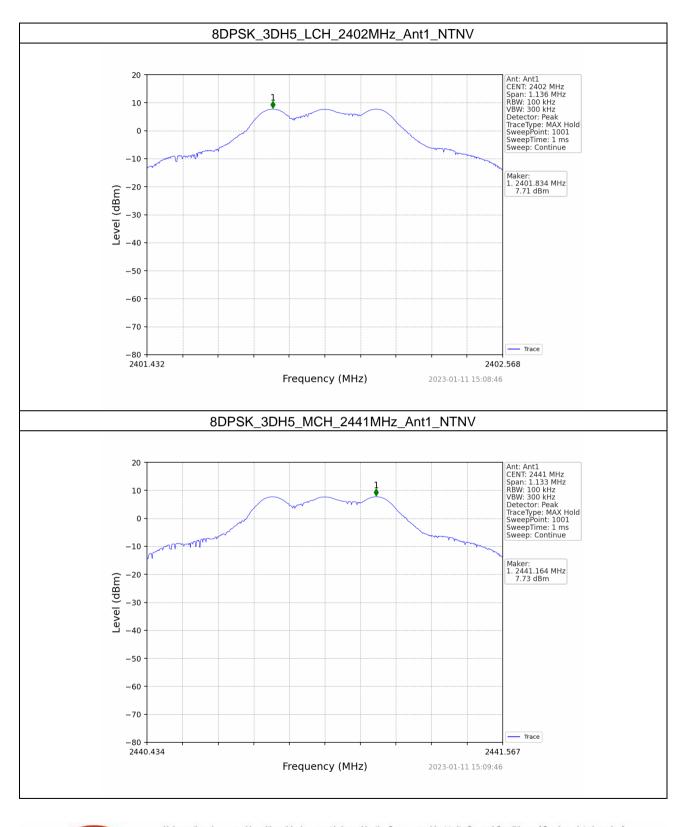
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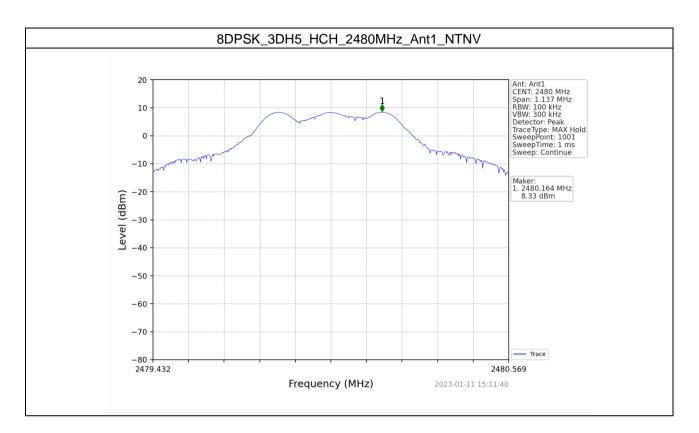
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6.2 CSE

6.2.1 Test Result

Mode	ТХ Туре	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	DH5	1	8.46	-11.54	Pass
OFOK		2441	DH5	1	8.46	-11.54	Pass
GFSK	SISO	2480	DH5	1	8.46	-11.54	Pass
		HOPP	DH5	1	8.46	-11.54	Pass
		2402	2DH5	1	8.23	-11.77	Pass
	0212	2441	2DH5	1	8.23	-11.77	Pass
Pi/4DQPSK	SISO	2480	2DH5	1	8.23	-11.77	Pass
		HOPP	2DH5	1	8.23	-11.77	Pass
		2402	3DH5	1	8.33	-11.67	Pass
		2441	3DH5	1	8.33	-11.67	Pass
8DPSK	SISO	2480	3DH5	1	8.33	-11.67	Pass
		HOPP	3DH5	1	8.33	-11.67	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.							



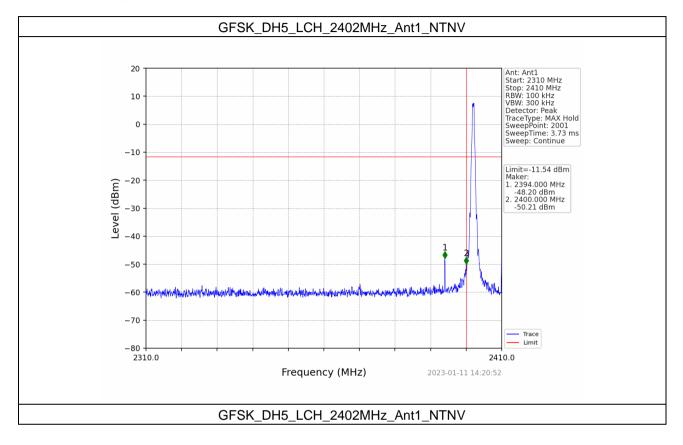
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6.2.2 Test Graph





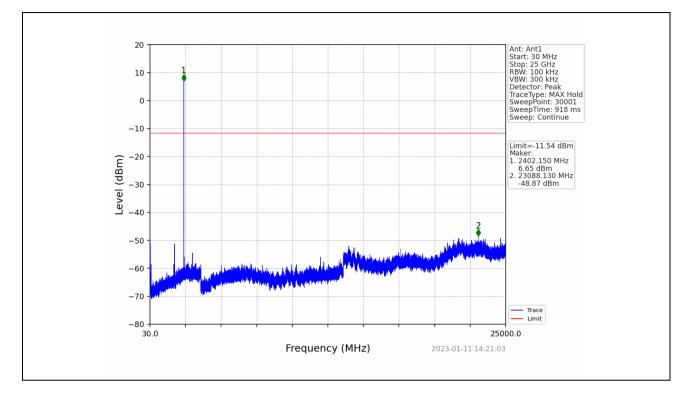
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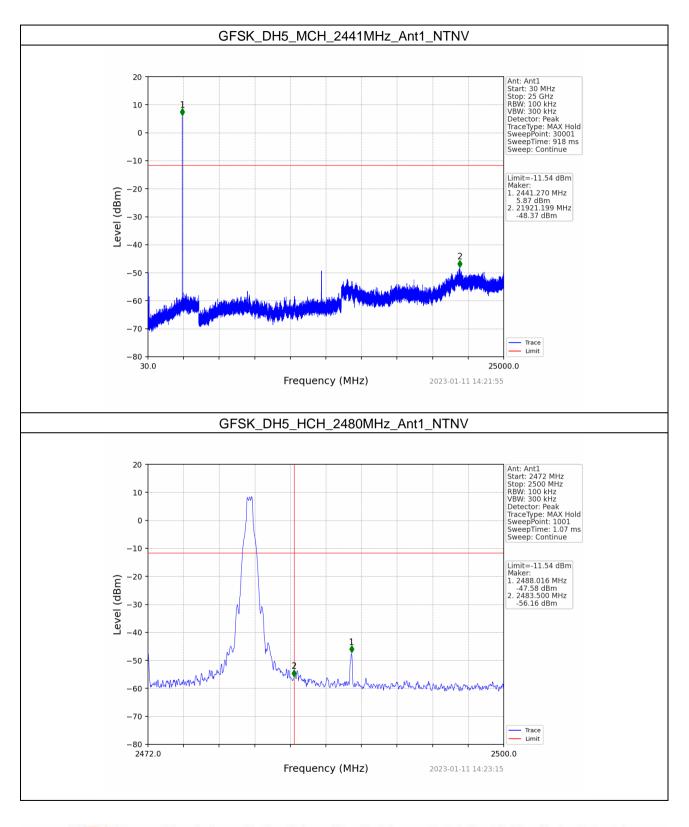
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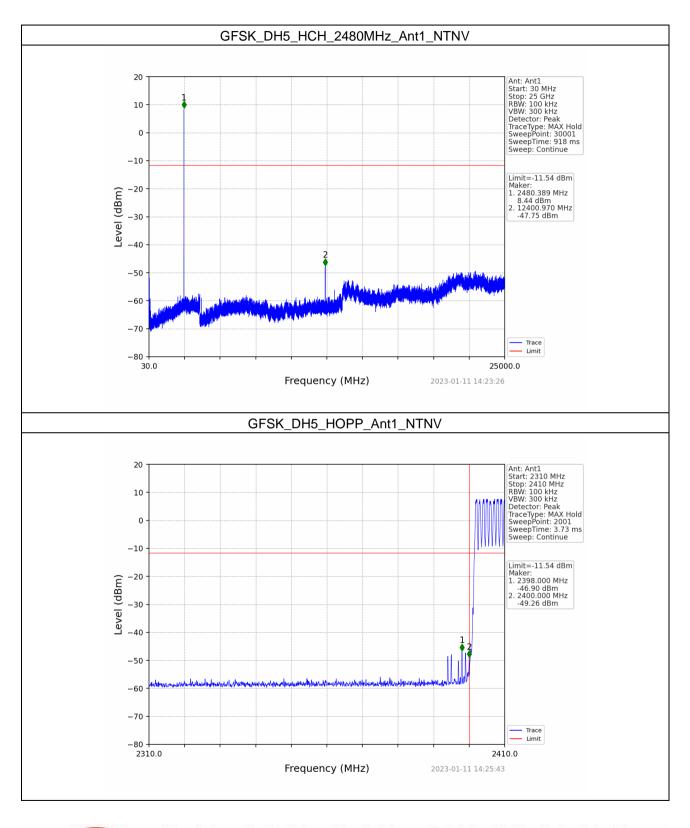
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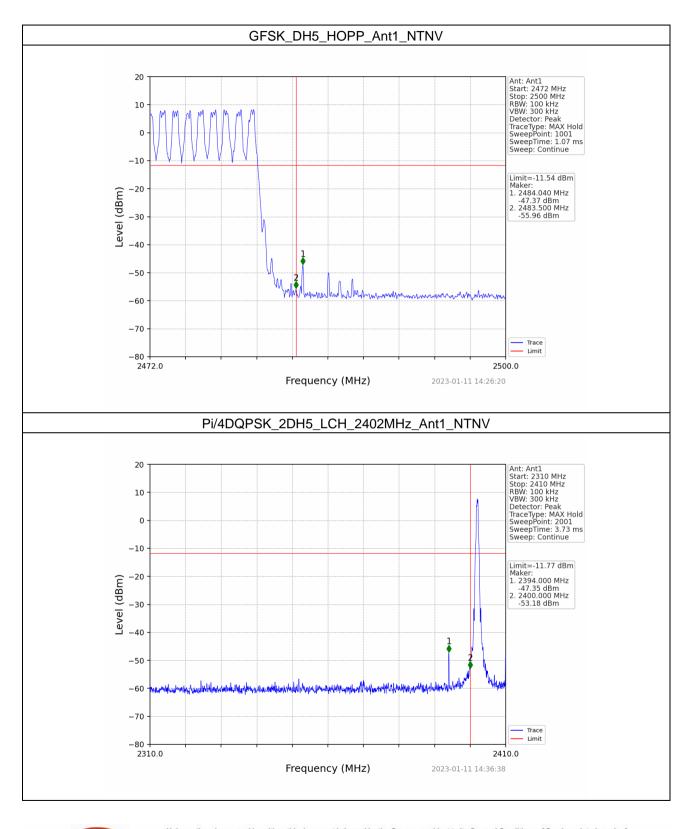
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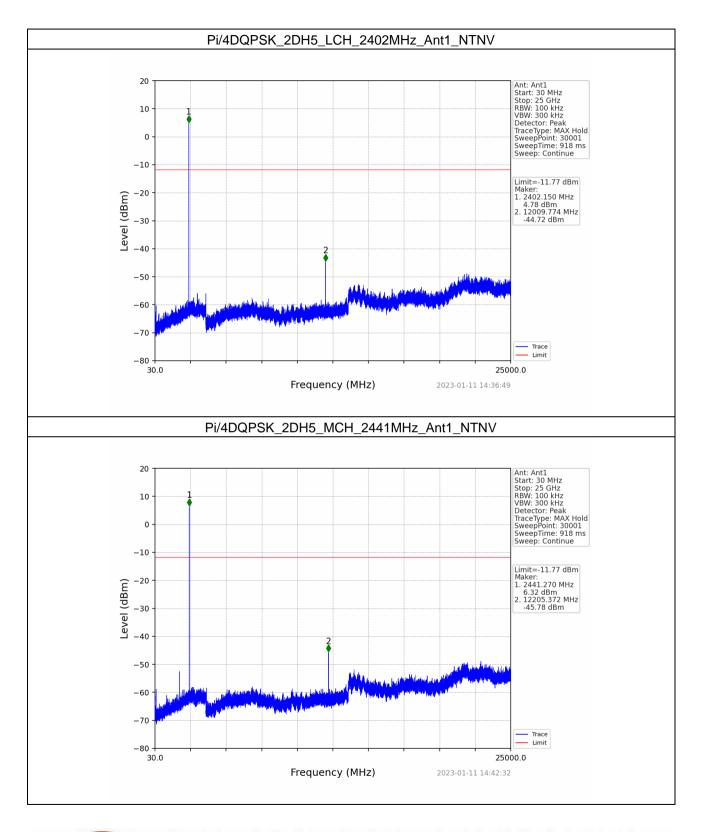
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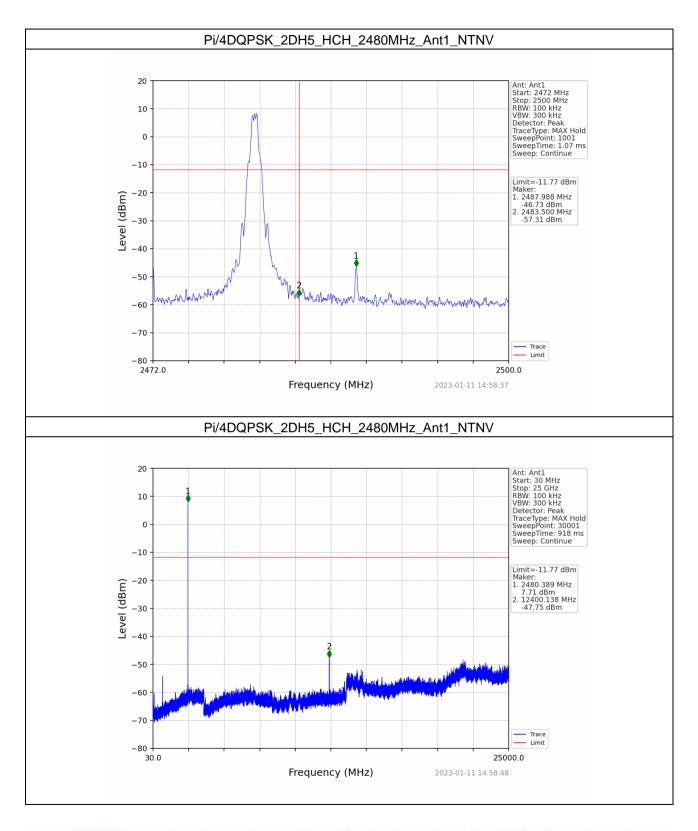
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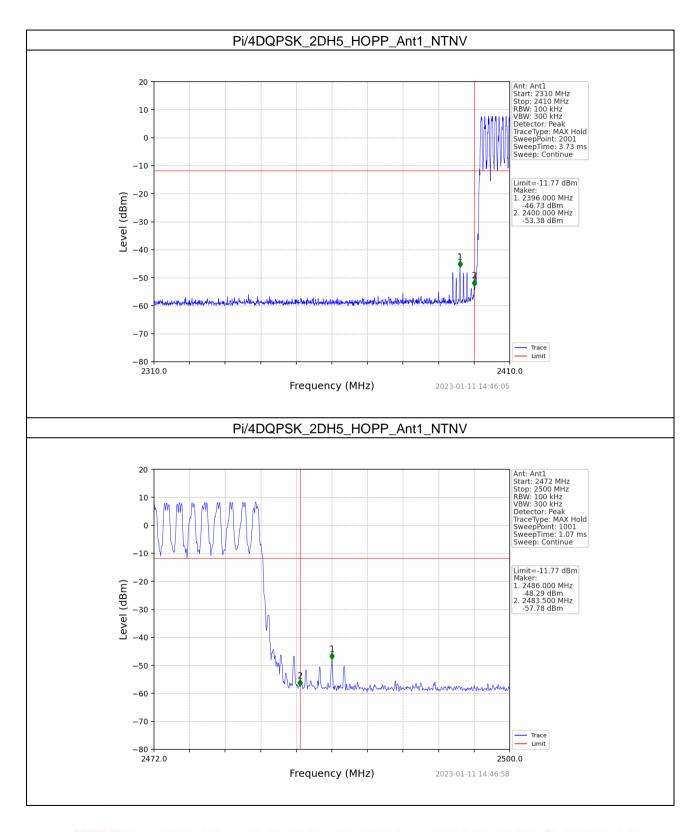
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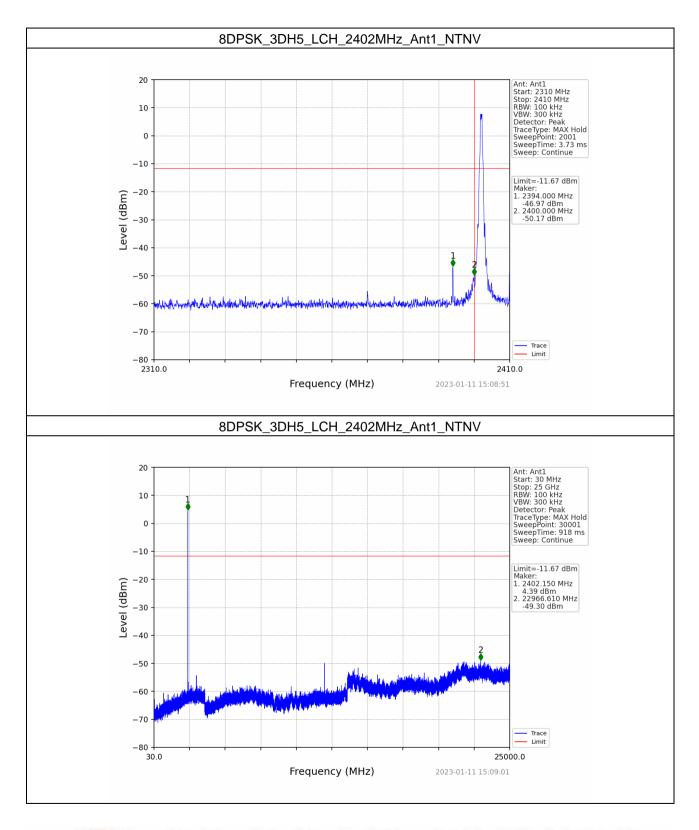
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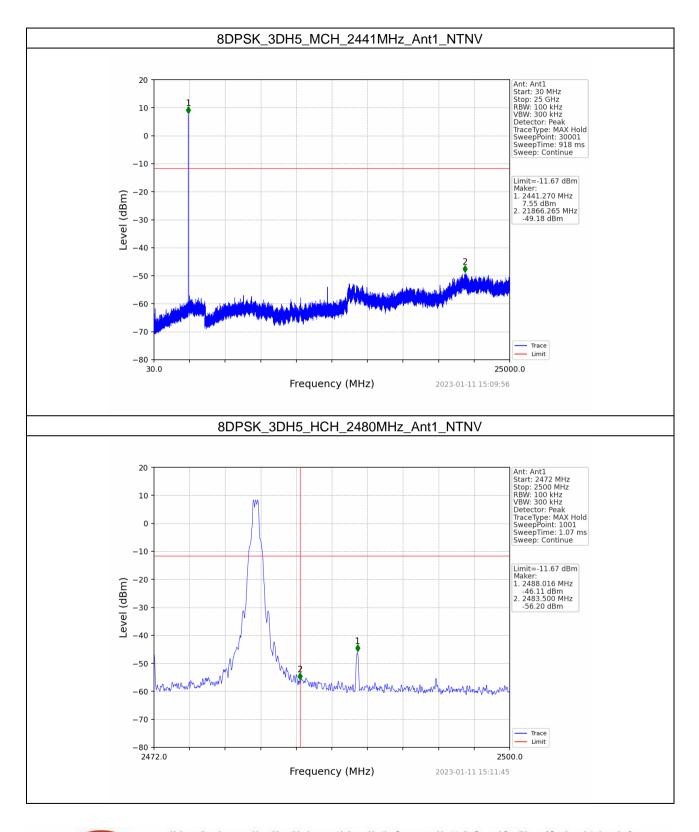
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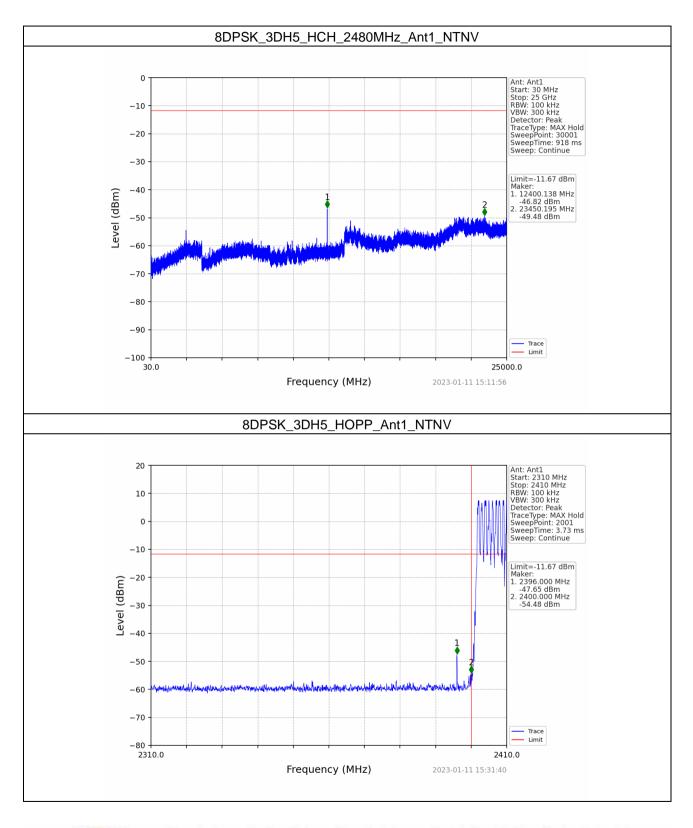
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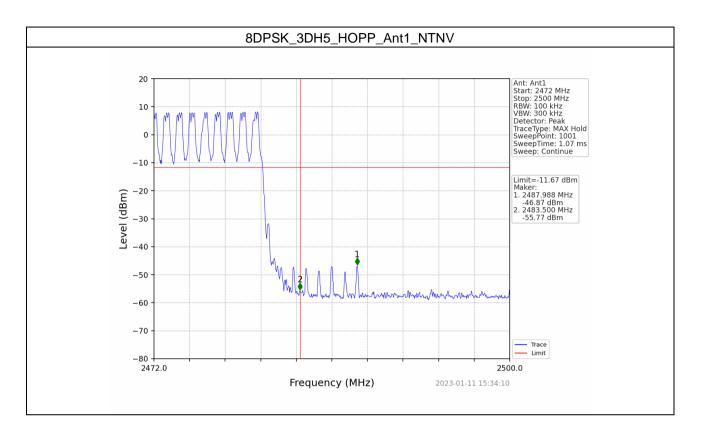
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