

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240500195402

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TEST REPORT

Application No.: SZCR2405001954AT Applicant: Voxx Accessories Corp.

Address of Applicant: 3502 Woodview Trace suite 220, 46268, Indianapolis, Indiana, United

States of America

Manufacturer: Voxx Accessories Corp.

Address of Manufacturer: 3502 Woodview Trace suite 220, 46268, Indianapolis, Indiana, United

States of America

Factory: Shenzhen Great Power Innovation and Technology Enterprise Co., Ltd Address of Factory: No. 331, Guiyue Road, Dafu Community, Guanlan Street, Longhua District,

Shenzhen, Guangdong, China

Equipment Under Test (EUT):

EUT Name: Wireless TV Headset Model No.: ARHTVHS, CARHTVHS

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade Mark: AR (Acoustic Research)

FCC ID: **VIXARHTVHS**

47 CFR Part 15, Subpart C 15.247 Standard(s):

2024-05-27 **Date of Receipt:**

Date of Test: 2024-06-09 to 2024-06-27

2024-07-05 Date of Issue:

Pass* Test Result:

Keny Xu **EMC Laboratory Manager**

Ceny. Ku



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



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	Revision Record						
Version	Version Chapter Date Modifier Remark						
01		2024-07-05		Original			

Authorized for issue by:		
	Charle Doi	
	Charlie Dai/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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Test Summary 2

Item	Standard	Method	Requirement	Result
Antenna Requirement	0 10111 01011 01	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass
Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)	Pass

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass	
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(1)	Pass	
20dB Bandwidth		ANSI C63.10 (2013) Section 7.8.7	47 CFR Part 15, Subpart C 15.247(a)(1)	Pass	
Carrier Frequencies Separation		ANSI C63.10 (2013) Section 7.8.2	47 CFR Part 15, Subpart C 15.247a(1)	Pass	
Hopping Channel Number		ANSI C63.10 (2013) Section 7.8.3	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass	
Dwell Time		ANSI C63.10 (2013) Section 7.8.4	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass	
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 7.8.6	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 7.8.8	47 CFR Part 15, Subpart C 15.247(d)	Pass	



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Declaration of EUT Family Grouping:

Model No.: ARHTVHS, CARHTVHS

Only the model ARHTVHS was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with the difference as below.

Brand	Model No.	Com	mponents / Model No. on Rating Plate			
Name on Box		Headset Transmitter		Base	Adapter	
AR	ARHTV1X CARHTV1X	1 ARHTVHS	1 ARHTVTXA	1 x Base ARHTV1X	5V 1A	
AR	ARHTVHS CARHTVHS	1 ARHTVHS	/	/	/	
AR	ARHTV1T CARHTV1T	1 ARHTVHS	1 ARHTVTXA	/	/	
AR	ARHTV1B CARHTV1B	1 ARHTVHS	1 ARHTVTXA	1 x Clock Radio ARHTV1B/2B	5V 2A	
AR	ARHTV2B CARHTV2B	2 ARHTVHS	1 ARHTVTXA	1 x Clock Radio ARHTV1B/2B	5V 2A	
Audiovox	VXHTV1T	1 ARHTVHS	1 ARHTVTXA	/	/	

Note:

- ARHTV** and CARHTV** are identical in mechanical and electrical design. ARHTV** is in English/Spanish packaging to be sold in USA and CARHTV** is in English/French packaging to be sold in Canada.
- ARHTV1T and VXHTV1T are identical in mechanical and electrical design with difference on branding 2. for marketing purposes.
- The difference between ARHTV1B and ARHTV2B is just that ARHTV1B has only headset while 3. ARHTV2B has 2 headsets in the packaging box.



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General Information

Details of E.U.T. 4.1

Power supply:	Headset: Lithium-ion rechargeable battery (DC 3.7V 300mAh) which can be charged from USB-C port or charging base.
Cable(s):	1 x USB charging/power cables 154cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.4 Dual mode
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Antenna Type:	PCB Antenna
Antenna Gain:	-0.68dBi
Cable Loss (for RF conducted test):	0.8dB

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.
Adapter	Apple	A1357	REF. No.SEA05A01A

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)
Conducted Peak Output Power	± 0.75dB
20dB Bandwidth	± 3%
Carrier Frequencies Separation	± 7.25 x 10-8
Hopping Channel Number	± 7.25 x 10-8
Dwell Time	± 0.37%



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Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

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



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

A2LA (Certificate No. 3816.01)

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

VCCI (Member No. 1937)

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

• FCC -Designation Number: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

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	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13	
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2024-03-14	2025-03-13	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2023-07-07	2024-07-06	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-09-19	2024-09-18	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13	

Radiated Emissions which fall in the restricted bands									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10				
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14				
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22				
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18				
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06				
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09				
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14				

Radiated Spurious Emissions Below 1GHz									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19				
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18				
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2023-10-19	2024-10-18				
BiConiLog Antenna	ETS-LINDGREN	3142C	3142C SEM003-01		2025-09-15				
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13				
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06				



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Radiated Spurious Emissions Above 1GHz									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10				
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14				
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22				
Microwave system amplifier	Agilent	83017A SEM005-25		2023-09-19	2024-09-18				
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06				
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09				
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14				

RF Conducted Test									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26				
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13				
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18				
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13				
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06				
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26				

General used equipment									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27				
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27				
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17				



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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

15.203 requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -0.68dBi.

Antenna location: Refer to internal photos



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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:



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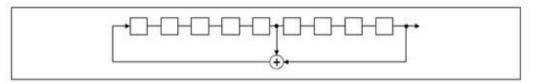
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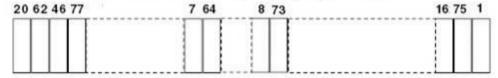
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Linear Feedback Shift Register for Generation of the PRBS sequence

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

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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Radio Spectrum Matter Test Results 7

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

47 CFR Part 15, Subpart C 15.207 Test Requirement Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Fraguency of emission/MU-)	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 t	*Decreases with the logarithm of the frequency.							
Detector: Peak for pre-scan (9kHz	Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz							

7.1.1 E.U.T. Operation

Operating Environment:

23.5 °C Humidity: 46.9 % RH Atmospheric Pressure: 1020 mbar Temperature:

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Charge + TX_non-Hop mode_Keep the EUT in charging and 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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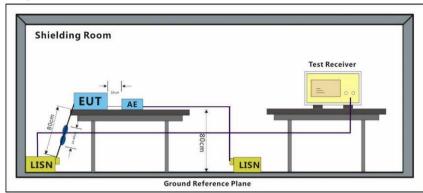
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7.1.3 Test Setup Diagram



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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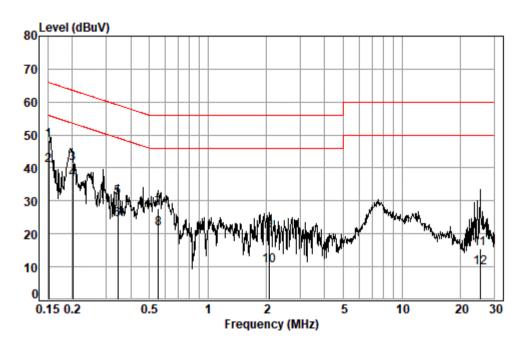


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Test Mode: 01; Line: Live line



: Shielding Room

Condition: Line

Job No. : 01954AT/01955AT

Test mode: 01

	_	Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1516	0.02	9.48	38.72	48.22	65.91	-17.69	QP
2 *	0.1516	0.02	9.48	31.40	40.90	55.91	-15.01	Average
3	0.2018	0.02	9.47	31.74	41.23	63.54	-22.31	QP
4	0.2018	0.02	9.47	27.12	36.61	53.54	-16.93	Average
5	0.3428	0.03	9.53	21.52	31.08	59.13	-28.05	QP
6	0.3428	0.03	9.53	14.76	24.32	49.13	-24.81	Average
7	0.5552	0.04	9.67	18.02	27.73	56.00	-28.27	QP
8	0.5552	0.04	9.67	11.78	21.49	46.00	-24.51	Average
9	2.0768	0.07	9.46	11.46	20.99	56.00	-35.01	QP
10	2.0768	0.07	9.46	0.71	10.24	46.00	-35.76	Average
11	25.3214	0.31	10.19	4.87	15.37	60.00	-44.63	QP
12	25.3214	0.31	10.19	-0.86	9.64	50.00	-40.36	Average



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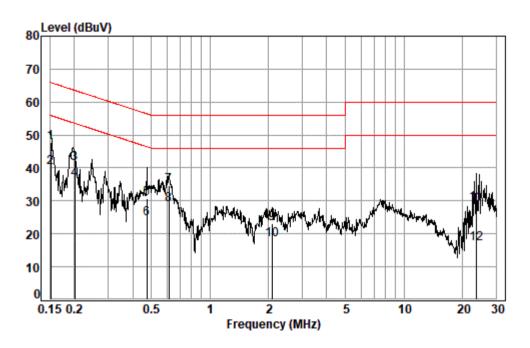


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Test Mode: 01; Line: Neutral Line



: Shielding Room

Condition: Neutral

Job No. : 01954AT/01955AT

Test mode: 01

	Freq	Cable	LISN Factor	Read Level	Level	Limit Line	Over	Remark
	rreq	LUSS	ractor	rever	rever	LINE	LIMIC	Kelliai K
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1516	0.02	9.63	38.24	47.89	65.91	-18.02	QP
2 *	0.1516	0.02	9.63	30.48	40.13	55.91	-15.78	Average
3	0.2018	0.02	9.66	31.63	41.31	63.54	-22.23	QP
4	0.2018	0.02	9.66	26.74	36.42	53.54	-17.12	Average
5	0.4736	0.04	9.81	20.76	30.61	56.45	-25.84	QP
6	0.4736	0.04	9.81	14.84	24.69	46.45	-21.76	Average
7	0.6140	0.04	9.88	24.80	34.72	56.00	-21.28	QP
8	0.6140	0.04	9.88	18.85	28.77	46.00	-17.23	Average
9	2.0879	0.07	9.77	13.28	23.12	56.00	-32.88	QP
10	2.0879	0.07	9.77	8.43	18.27	46.00	-27.73	Average
11	23.5112	0.30	10.34	18.50	29.14	60.00	-30.86	QP
12	23.5112	0.30	10.34	6.53	17.17	50.00	-32.83	Average



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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 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

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

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C Humidity: 58.4 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

1.2.2 1 CSt IV		5011/511011
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.
Pre-scan	01	Charge + TX_non-Hop mode_Keep the EUT in charging and 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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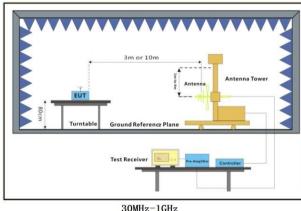


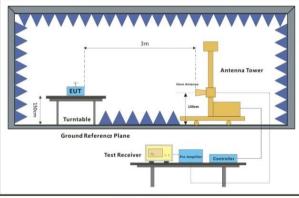
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7.2.3 Test Setup Diagram





Above 1GHz

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.



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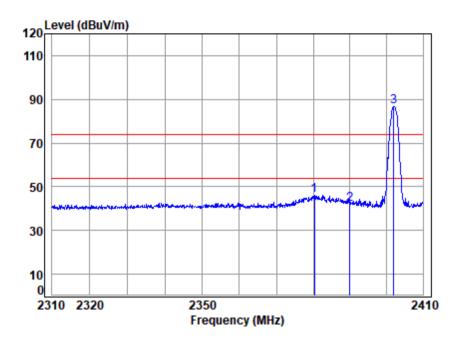


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 01954AT/01955AT Mode : 2402 Band edge

Note : BT

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2380.260	5.07	29.10	37.46	49.46	46.17	74.00	-27.83	peak
2	2390.000	5.08	29.10	37.44	45.40	42.14	74.00	-31.86	peak
3 p	2402.000	5.09	29.09	37.41	89.82	86.59	74.00	12.59	peak



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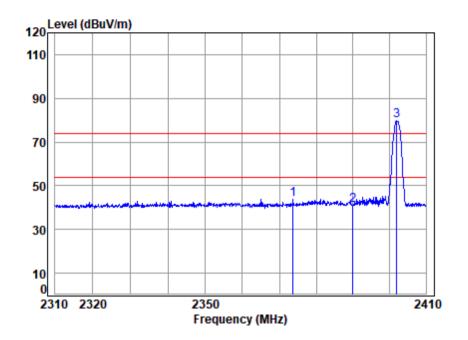


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01954AT/01955AT Mode : 2402 Band edge

Note : BT

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2373.712	5.06	29.10	37.47	47.13	43.82	74.00	-30.18	peak
2	2390.000	5.08	29.10	37.44	44.28	41.02	74.00	-32.98	peak
3 p	2402.000	5.09	29.09	37.41	82.86	79.63	74.00	5.63	peak



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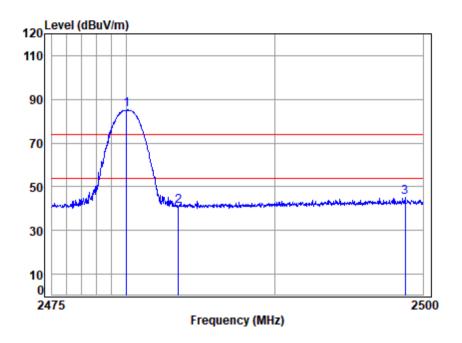


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 01954AT/01955AT Mode : 2480 Band edge

Note : BT

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2480.000								-
	2483.500								•
3	2498.794	5.17	28.90	37.18	48.16	45.05	74.00	-28.95	peak



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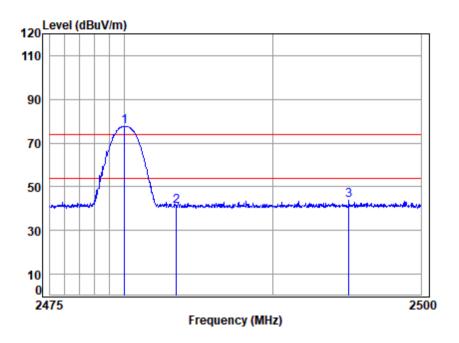


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 01954AT/01955AT Mode : 2480 Band edge

Note : BT

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2480.000	5.16	28.90	37.22	80.75	77.59	74.00	3.59	peak
2	2483.500	5.16	28.90	37.22	44.43	41.27	74.00	-32.73	peak
3	2495.130	5.17	28.90	37.19	47.02	43.90	74.00	-30.10	peak



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7.3 Radiated Spurious Emissions Below 1GHz

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

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Measurement Distance: 3m

Limit:

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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 45.8 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

7.0.2 103010		
Pre-scan / Final test	Mode Code	Description
Pre-scan	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	Charge + TX_non-Hop mode_Keep the EUT in charging and 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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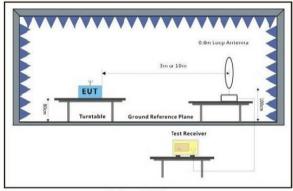


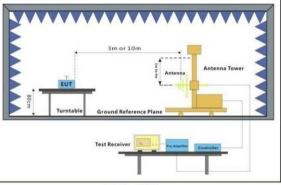
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7.3.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

7.3.4 Measurement Procedure and Data

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

Remark:

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



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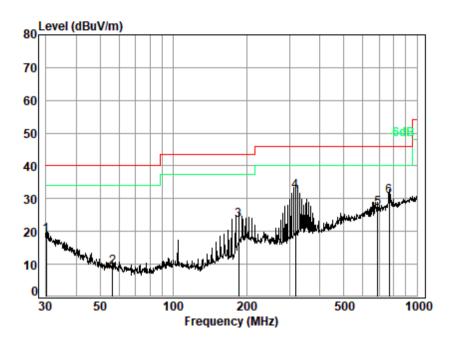


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Test Mode: 01; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL Job No. : 01954AT/01955AT

Test Mode: 01

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	30.11	21.15	0.64	27.80	24.80	18.79	40.00	-21.21	QP
2	56.39	11.81	0.89	27.73	24.13	9.10	40.00	-30.90	QP
3	185.79	14.29	1.65	27.30	34.77	23.41	43.50	-20.09	QP
4 q	317.70	18.46	2.24	26.97	38.59	32.32	46.00	-13.68	QP
5	689.56	25.69	3.48	27.95	25.80	27.02	46.00	-18.98	QP
6	768.75	26.68	3.73	27.71	28.15	30.85	46.00	-15.15	OP



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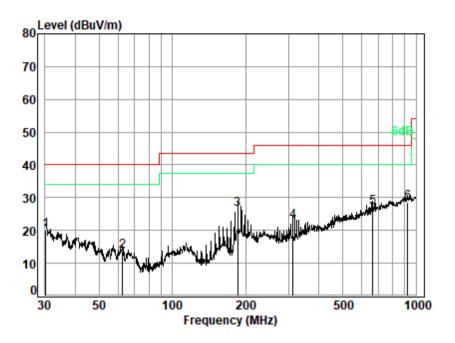


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Test Mode: 01; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 01954AT/01955AT

Test Mode: 01

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.21	21.10	0.64	27.80	25.99	19.93	40.00	-20.07	QP
2	62.43	11.23	0.94	27.71	29.16	13.62	40.00	-26.38	QP
3 q	185.79	14.29	1.65	27.30	37.86	26.50	43.50	-17.00	QP
4	312.18	18.41	2.22	26.94	29.02	22.71	46.00	-23.29	QP
5	665.80	25.41	3.41	28.03	26.13	26.92	46.00	-19.08	QP
6	925.76	28.18	4.16	27.01	23.38	28.71	46.00	-17.29	OP



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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 (2013) Section 6.6

Measurement Distance: 3m

Limit:

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

7.4.1 E.U.T. Operation

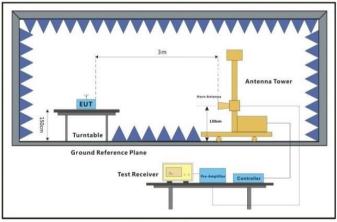
Operating Environment:

22.9 °C Atmospheric Pressure: 1020 mbar Temperature: Humidity: 58.5 % RH

7.4.2 Test Mode Description

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

7.4.3 Test Setup Diagram



Above 1GHz



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7.4.4 Measurement Procedure and Data

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

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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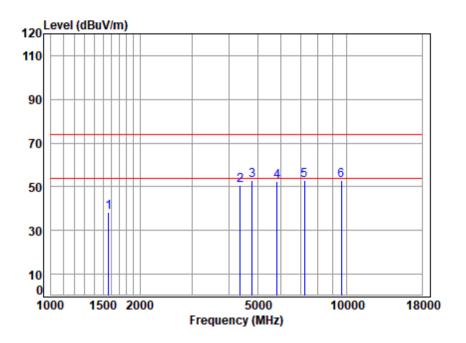


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 01954AT/01955AT Mode : 2402 TX RSE

: BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1565.191	4.15	26.94	38.40	45.61	38.30	74.00	-35.70	peak
2	4367.058	7.04	34.54	35.82	44.93	50.69	74.00	-23.31	peak
3	p 4804.000	7.31	34.32	35.52	47.01	53.12	74.00	-20.88	peak
4	5813.812	8.04	34.33	34.98	45.17	52.56	74.00	-21.44	peak
5	7206.000	9.18	35.70	35.79	43.64	52.73	74.00	-21.27	peak
6	9608.000	12.36	37.42	37.46	40.73	53.05	74.00	-20.95	peak



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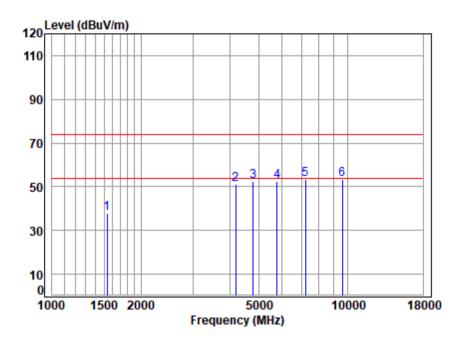


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01954AT/01955AT

Mode : 2402 TX RSE

: BT

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1533.841	4.11	26.94	38.39	45.42	38.08	74.00	-35.92	peak
2		4181.768	6.91	33.80	35.96	46.32	51.07	74.00	-22.93	peak
3		4804.000	7.31	34.32	35.52	46.16	52.27	74.00	-21.73	peak
4		5780.300	8.02	34.26	35.00	45.24	52.52	74.00	-21.48	peak
5		7206.000	9.18	35.70	35.79	44.08	53.17	74.00	-20.83	peak
6	р	9608.000	12.36	37.42	37.46	41.15	53.47	74.00	-20.53	peak



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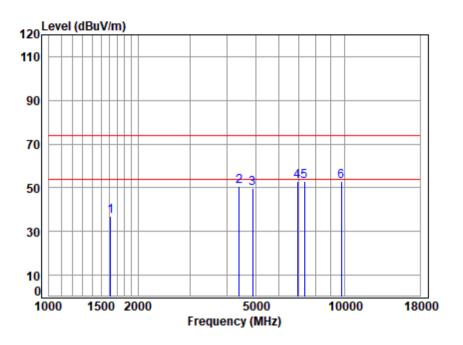


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 01954AT/01955AT

Mode : 2441 TX RSE

: BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1615.754	4.22	26.64	38.40	44.59	37.05	74.00	-36.95	peak
2	4405.090	7.06	34.74	35.79	44.57	50.58	74.00	-23.42	peak
3	4882.000	7.36	34.63	35.47	42.99	49.51	74.00	-24.49	peak
4	6934.778	8.87	35.74	35.53	43.82	52.90	74.00	-21.10	peak
5	7323.000	9.32	35.70	35.90	43.86	52.98	74.00	-21.02	peak
6 p	9764.000	12.47	37.37	37.42	40.67	53.09	74.00	-20.91	peak



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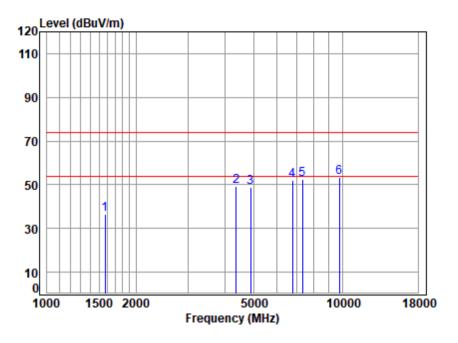


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 01954AT/01955AT

Mode : 2441 TX RSE

: BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1574.265	4.17	26.90	38.40	43.82	36.49	74.00	-37.51	peak
2	4367.058	7.04	34.54	35.82	43.43	49.19	74.00	-24.81	peak
3	4882.000	7.36	34.63	35.47	42.35	48.87	74.00	-25.13	peak
4	6776.265	8.76	35.25	35.43	43.47	52.05	74.00	-21.95	peak
5	7323.000	9.32	35.70	35.90	43.53	52.65	74.00	-21.35	peak
6	p 9764.000	12.47	37.37	37.42	41.04	53.46	74.00	-20.54	peak



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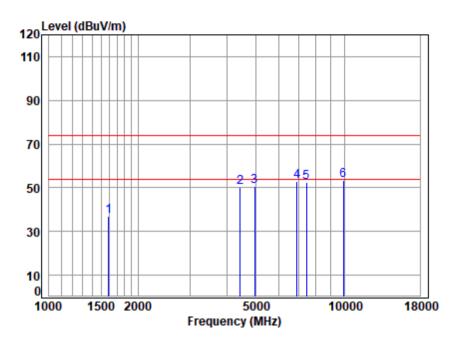


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 01954AT/01955AT

Mode : 2480 TX RSE

: BT

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1592.571	4.19	26.83	38.40	44.35	36.97	74.00	-37.03	peak
2		4443.453	7.09	34.28	35.77	44.48	50.08	74.00	-23.92	peak
3		4960.000	7.41	34.56	35.42	44.05	50.60	74.00	-23.40	peak
4		6894.806	8.85	35.59	35.50	44.12	53.06	74.00	-20.94	peak
5		7440.000	9.46	35.96	36.02	43.27	52.67	74.00	-21.33	peak
6	р	9920.000	12.58	37.30	37.39	41.11	53.60	74.00	-20.40	peak



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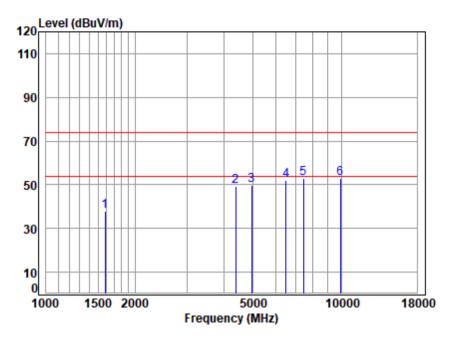


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 01954AT/01955AT

Mode : 2480 TX RSE

: BT

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1583.392	4.18	26.87	38.40	45.04	37.69	74.00	-36.31	peak
2		4392.376	7.05	34.74	35.80	43.26	49.25	74.00	-24.75	peak
3		4960.000	7.41	34.56	35.42	43.17	49.72	74.00	-24.28	peak
4		6488.754	8.55	35.58	35.24	43.17	52.06	74.00	-21.94	peak
5	р	7440.000	9.46	35.96	36.02	43.51	52.91	74.00	-21.09	peak
6		9920.000	12.58	37.30	37.39	40.36	52.85	74.00	-21.15	peak



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7.5 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(1) Test Method: ANSI C63.10 (2013) Section 7.8.5

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)			
	1 for ≥50 hopping channels			
902-928	1 for ≥50 hopping channels 0.25 for 25≤ hopping channels <50 1 for digital modulation 1 for ≥75 non-overlapping hopping channels 0.125 for all other frequency hopping systems			
	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			

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.2 °C Atmospheric Pressure: 1020 mbar Humidity: 45.4 % RH

7.5.2 Test Mode Description

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



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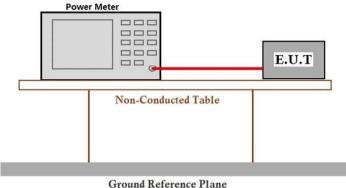
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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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 (2013) Section 7.8.7

7.6.1 E.U.T. Operation

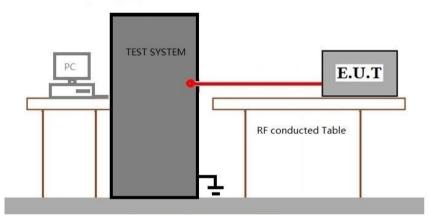
Operating Environment:

Temperature: 24.2 °C Atmospheric Pressure: 1020 mbar Humidity: 45.4 % RH

7.6.2 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.

7.6.3 Test Setup Diagram



Ground Reference Plane

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 (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.

7.7.1 E.U.T. Operation

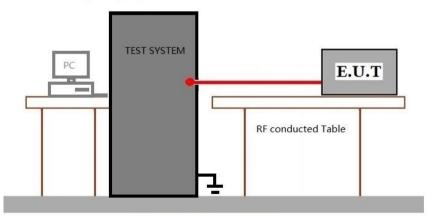
Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 24.2 °C Humidity: 45.4 % RH

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
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



Ground Reference Plane

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 (2013) Section 7.8.3

Limit:

Frequency range(MHz)	Number of hopping channels (minimum)			
002.028	50 for 20dB bandwidth <250kHz			
902-928	25 for 20dB bandwidth ≥250kHz			
2400-2483.5	15			
5725-5850	75			

7.8.1 E.U.T. Operation

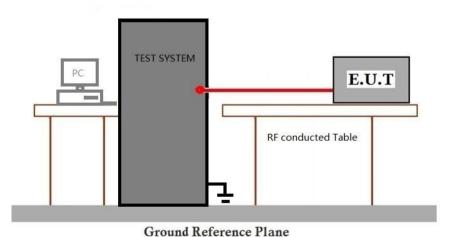
Operating Environment:

Temperature: 24.2 °C Humidity: 45.4 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
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 (2013) Section 7.8.4

Limit:

Frequency(MHz)	Limit		
002 029	0.4S within a 20S period(20dB bandwidth<250kHz)		
902-928	0.4S within a 10S period(20dB bandwidth≥250kHz)		
2400 2402 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		

7.9.1 E.U.T. Operation

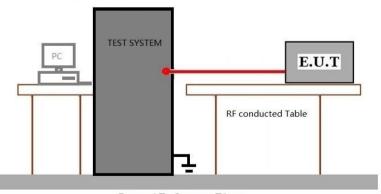
Operating Environment:

Temperature: 24.2 °C Atmospheric Pressure: 1020 mbar Humidity: 45.4 % RH

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
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



Ground Reference Plane

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 (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).

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 24.2 °C Humidity: 45.4 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

7.10.2 Test mode bescription						
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	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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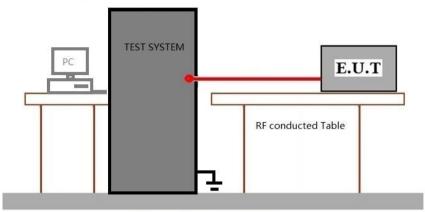


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7.10.3 Test Setup Diagram



Ground Reference Plane

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 (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).

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 24.2 °C Humidity: 45.4 % RH Atmospheric Pressure: 1020 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.



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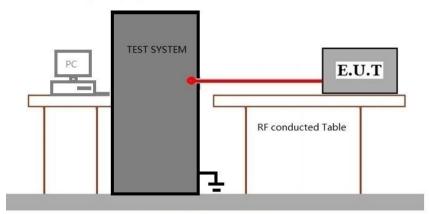


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7.11.3 Test Setup Diagram



Ground Reference Plane

7.11.4 Measurement Procedure and Data

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Test Setup Photo 8

Refer to Appendix - Test Setup Photo for SZCR2405001954AT

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2405001954AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

	Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)		
		2402	DH5	2.894	3.750	77.17	1.13	0.03		
GFSK	SISO	2441	DH5	2.894	3.750	77.17	1.13	0.04		
		2480	DH5	2.895	3.751	77.18	1.12	0.03		
	SISO	2402	2DH5	2.898	3.749	77.30	1.12	0.03		
Pi/4DQPSK		2441	2DH5	2.900	3.751	77.31	1.12	11.35		
		2480	2DH5	2.900	3.751	77.31	1.12	0.03		
		2402	3DH5	2.900	3.750	77.33	1.12	0.04		
8DPSK	SISO	2441	3DH5	2.901	3.751	77.34	1.12	0.03		
		2480	3DH5	2.900	3.749	77.35	1.12	0.04		



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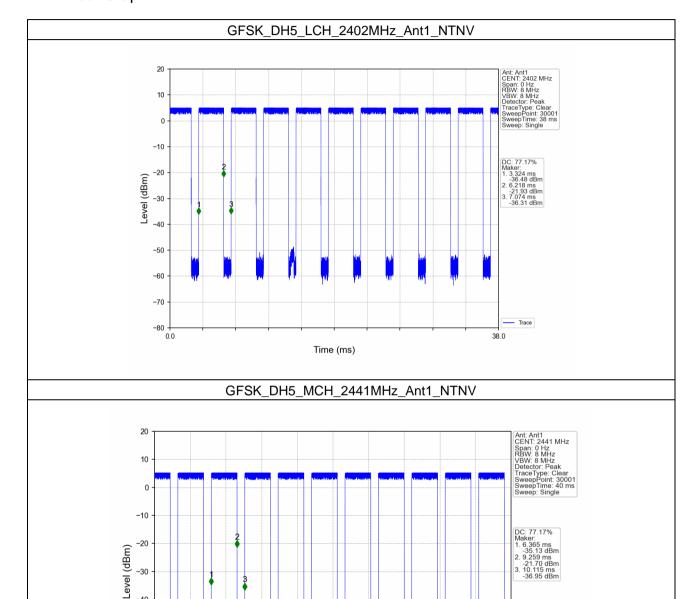


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1.1.2 Test Graph





-30

-40

-50

-60

-70

-80

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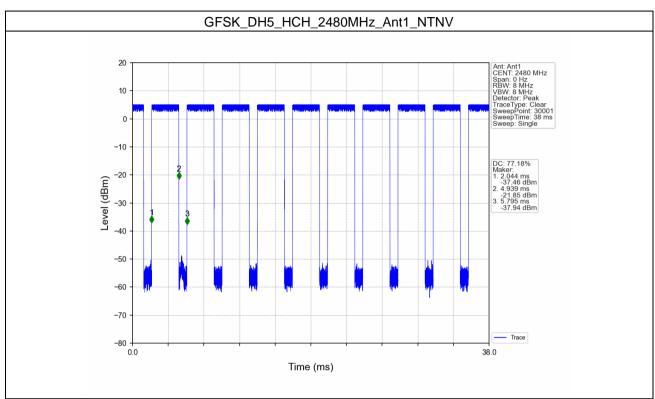
Time (ms)

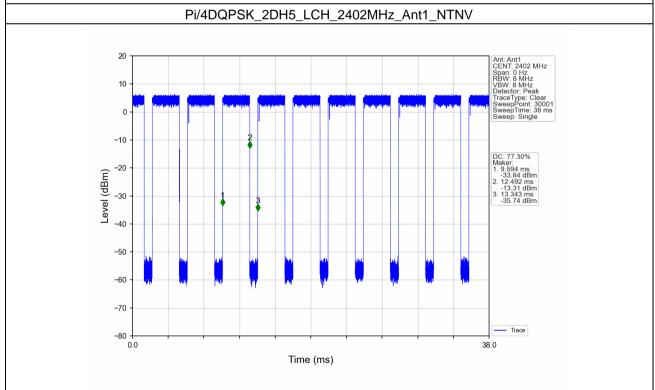


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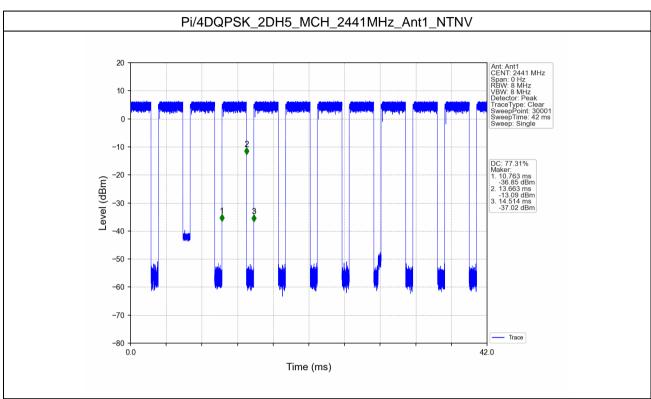
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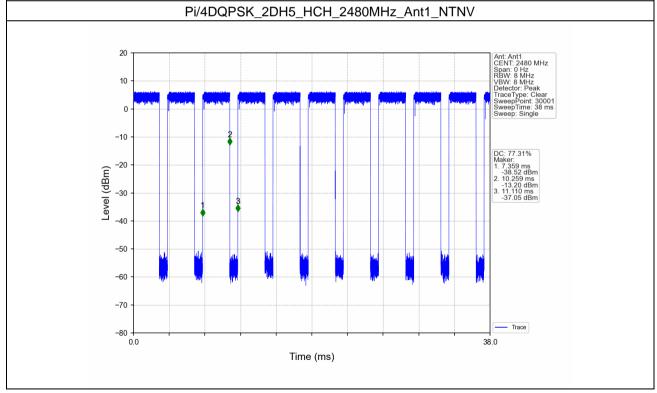


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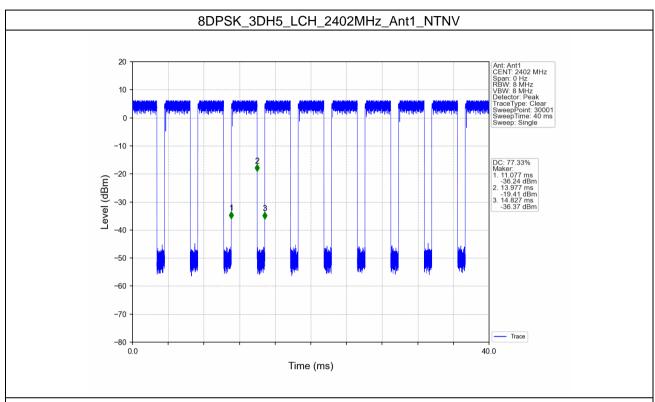
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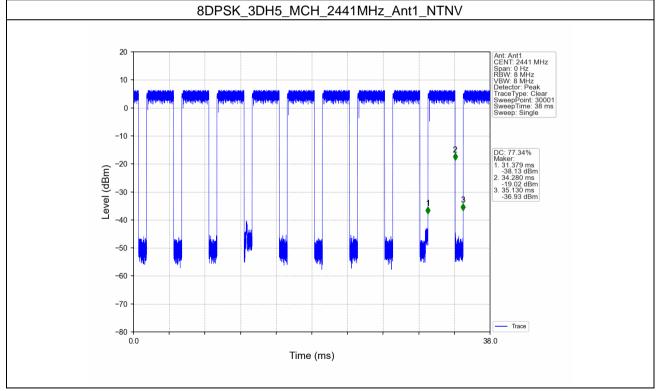


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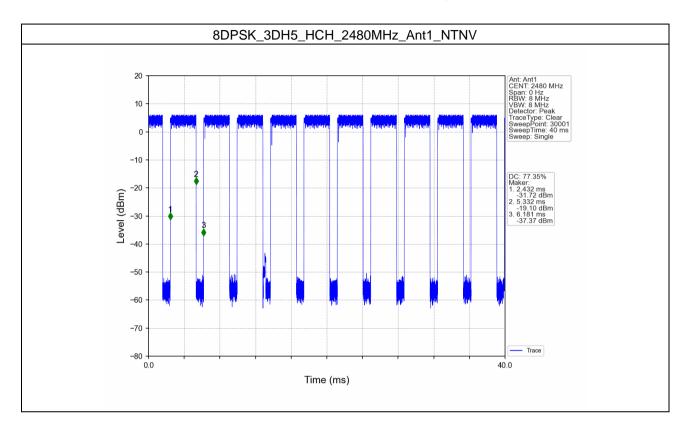
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX	Frequency	Packet Type ANT	ANIT	99% Occupied Bandwidth (MHz)		Verdict
Mode	Type	(MHz)		Result	Limit		
		2402	DH5	1	0.893	/	Pass
GFSK	SISO	2441	DH5	1	0.870	/	Pass
		2480	DH5	1	0.861	/	Pass
	SISO	2402	2DH5	1	1.171	/	Pass
Pi/4DQPSK		2441	2DH5	1	1.170	/	Pass
		2480	2DH5	1	1.167	/	Pass
		2402	3DH5	1	1.185	/	Pass
8DPSK	SISO	2441	3DH5	1	1.193	/	Pass
		2480	3DH5	1	1.184	/	Pass



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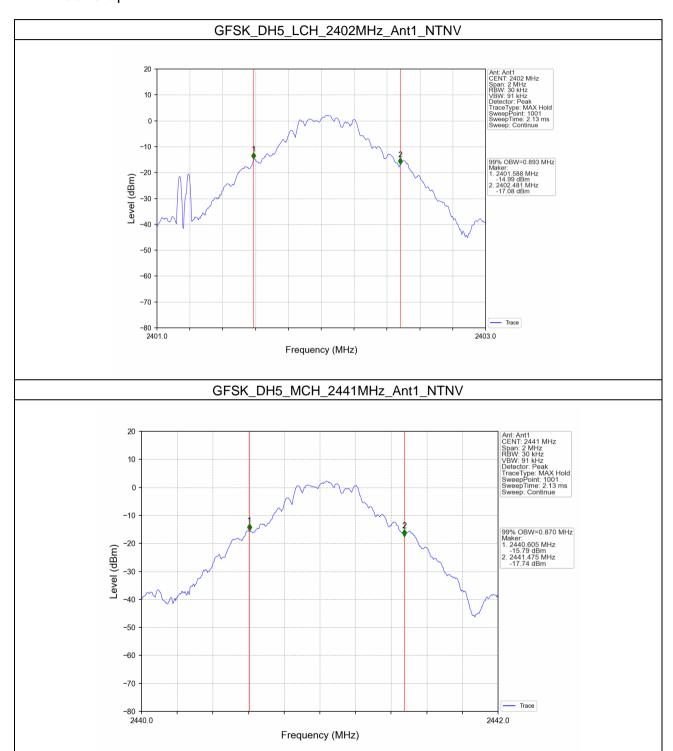


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2.1.2 Test Graph





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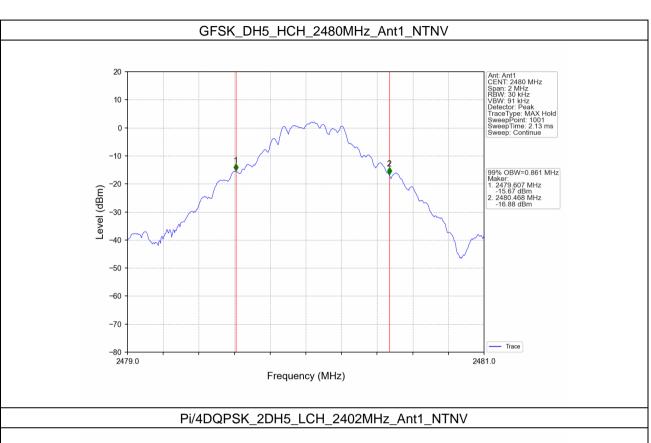
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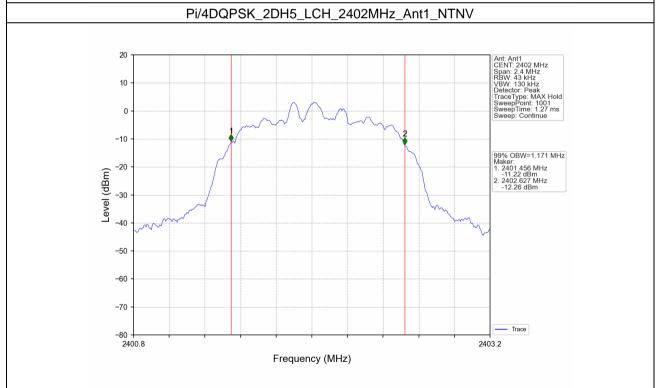


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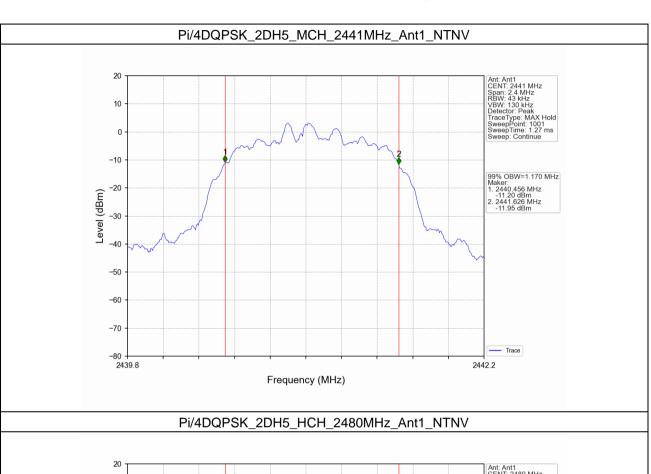
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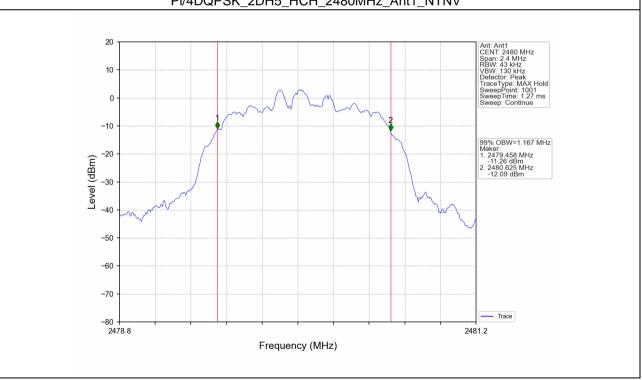


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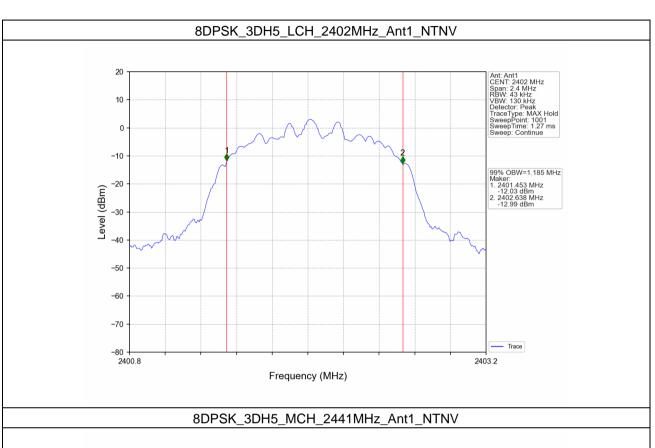
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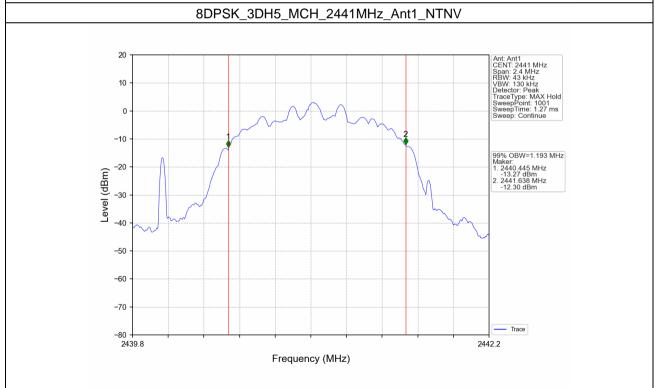


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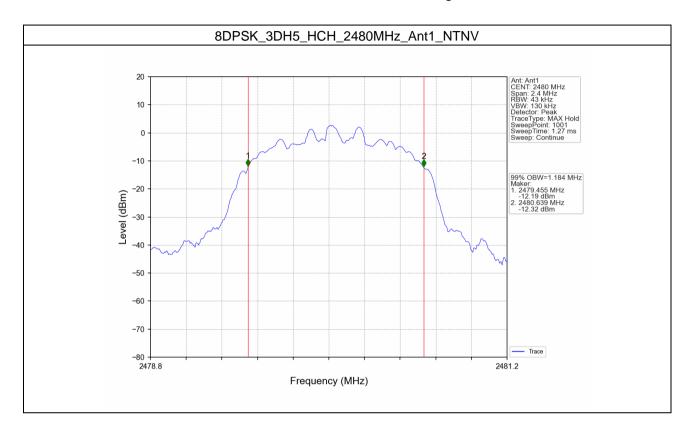
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2.2 20dB BW

2.2.1 Test Result

Mode	TX Type	Frequency	Packet Type	ANIT	20dB Bandwidth (MHz)		\/ordiot
		(MHz)		ANT	Result	Limit	Verdict
GFSK	SISO	2402	DH5	1	1.360	/	Pass
		2441	DH5	1	0.962	/	Pass
		2480	DH5	1	0.954	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.308	/	Pass
		2441	2DH5	1	1.309	/	Pass
		2480	2DH5	1	1.308	/	Pass
8DPSK	SISO	2402	3DH5	1	1.316	/	Pass
		2441	3DH5	1	1.315	/	Pass
		2480	3DH5	1	1.317	/	Pass



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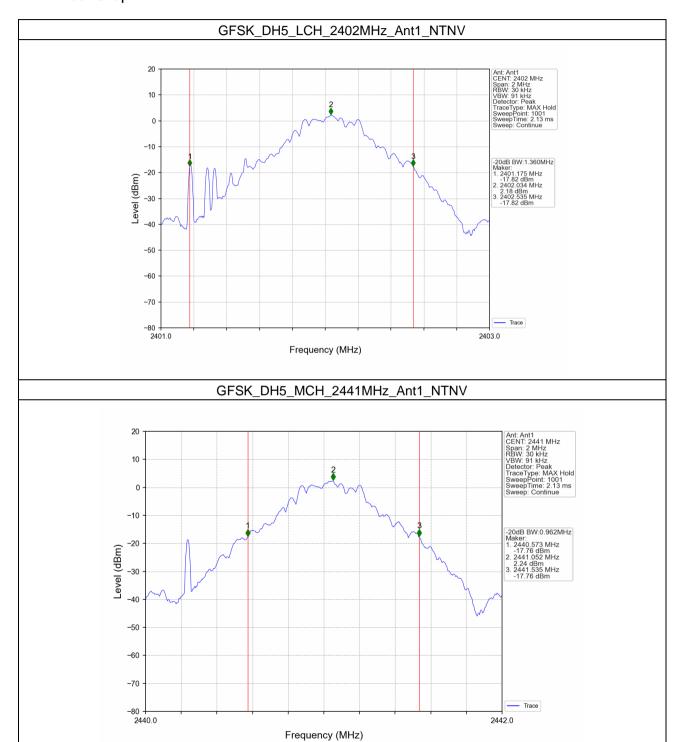


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2.2.2 Test Graph





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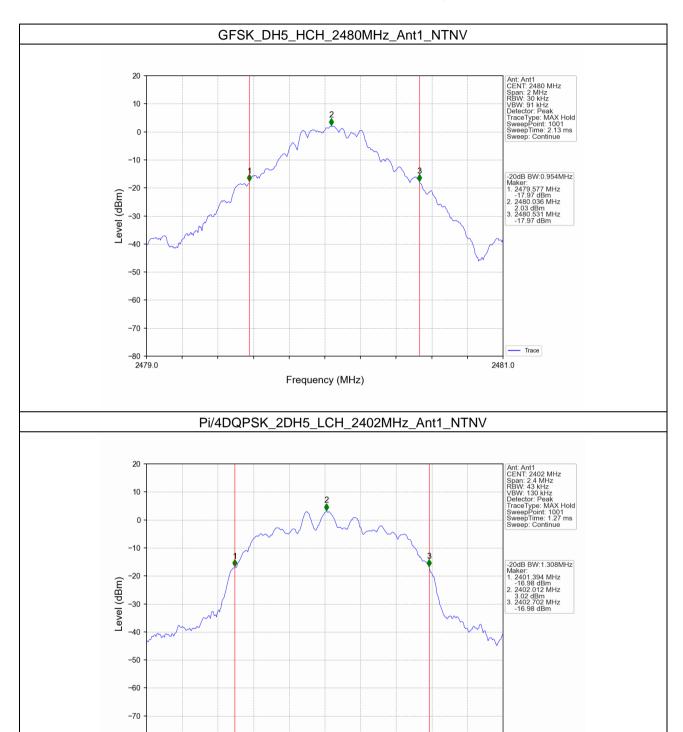
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Frequency (MHz)

Trace

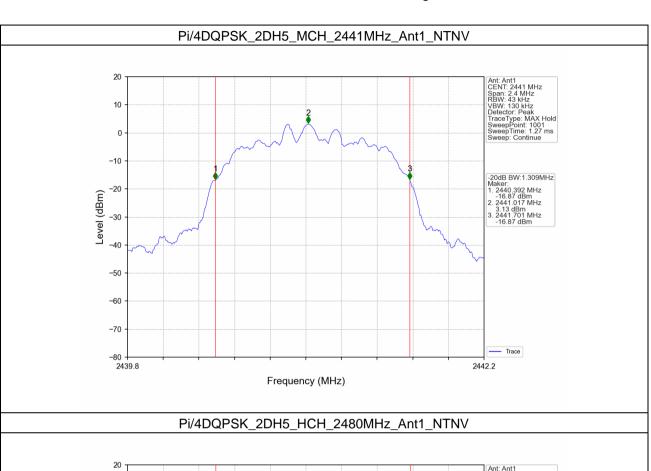
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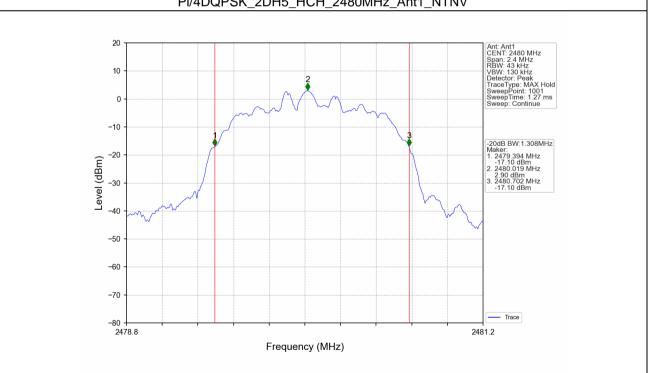


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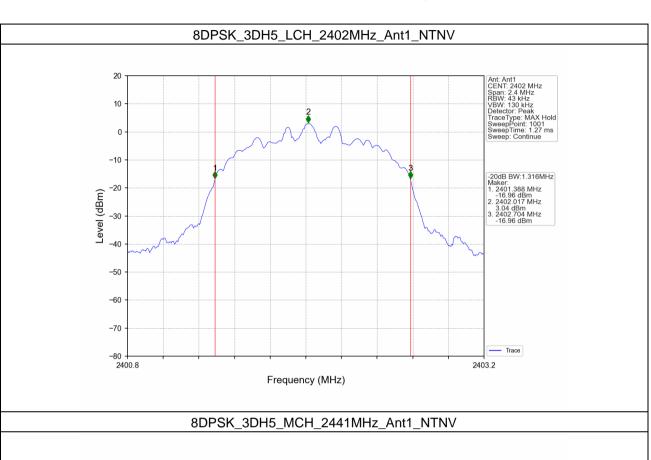
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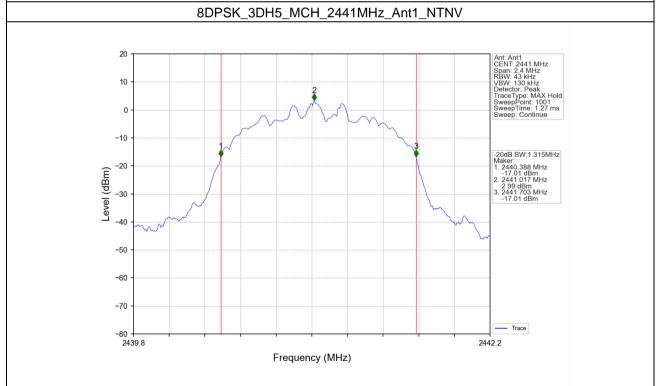


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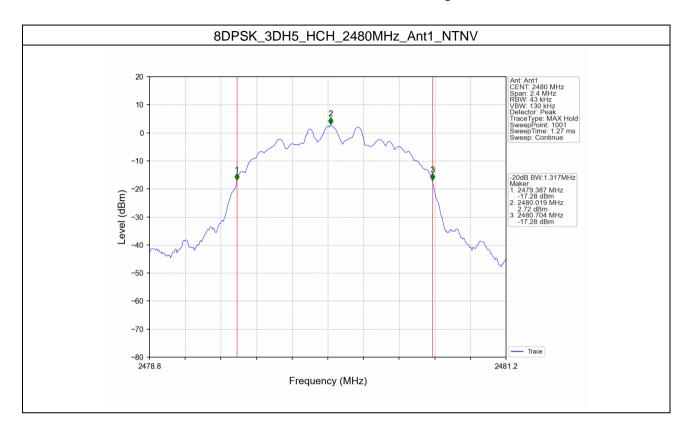
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet		Maximum Peak Conducted Output Power (dBm)	
			Type	ANT1	Limit	
GFSK	SISO	2402	DH5	2.13	<=20.97	Pass
		2441	DH5	2.17	<=20.97	Pass
		2480	DH5	1.93	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	2.81	<=20.97	Pass
		2441	2DH5	2.93	<=20.97	Pass
		2480	2DH5	2.65	<=20.97	Pass
8DPSK	SISO	2402	3DH5	2.82	<=20.97	Pass
		2441	3DH5	2.93	<=20.97	Pass
		2480	3DH5	2.64	<=20.97	Pass



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4. Carrier Frequency Separation

4.1 Ant1

4.1.1 Test Result

Ant1								
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict	
GFSK	SISO	HOPP	DH5	0.988	1.360	>=0.907	Pass	
Pi/4DQPSK	SISO	HOPP	2DH5	0.986	1.309	>=0.873	Pass	
8DPSK	SISO	HOPP	3DH5	1.020	1.317	>=0.878	Pass	



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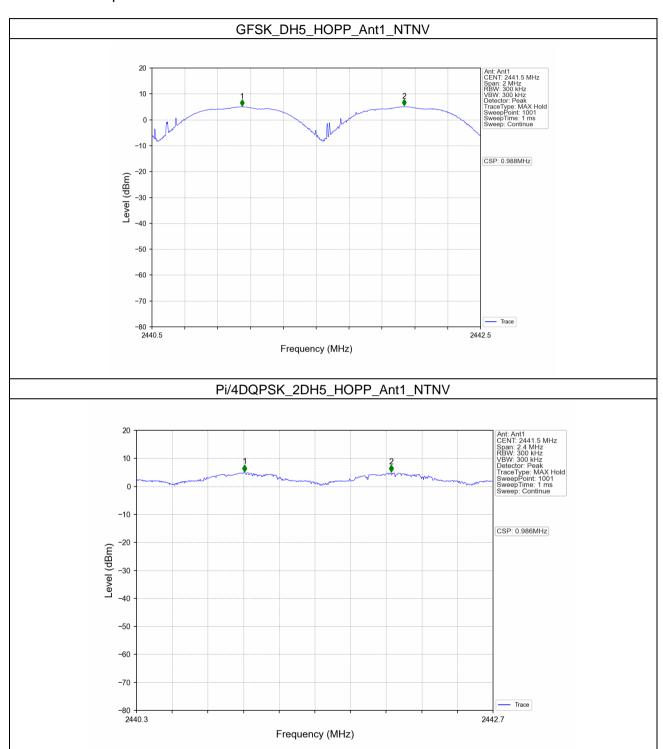


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4.1.2 Test Graph





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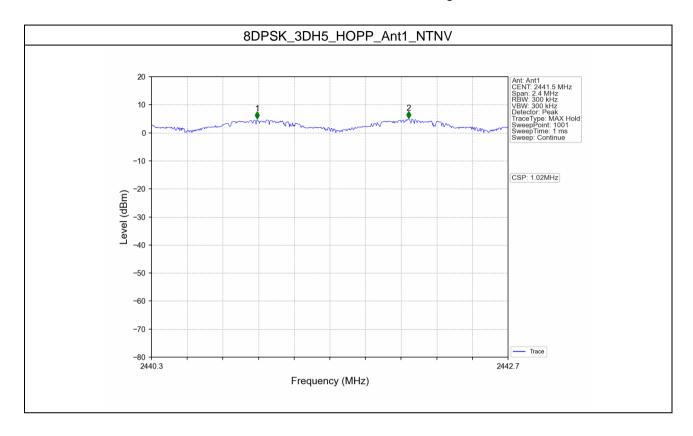
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5. Number of Hopping Frequencies

5.1 HoppNum

5.1.1 Test Result

Mode	TX	Frequency	Packet	Num of Hopping Frequencies		\/ovdict
Mode	Туре	(MHz)	Type	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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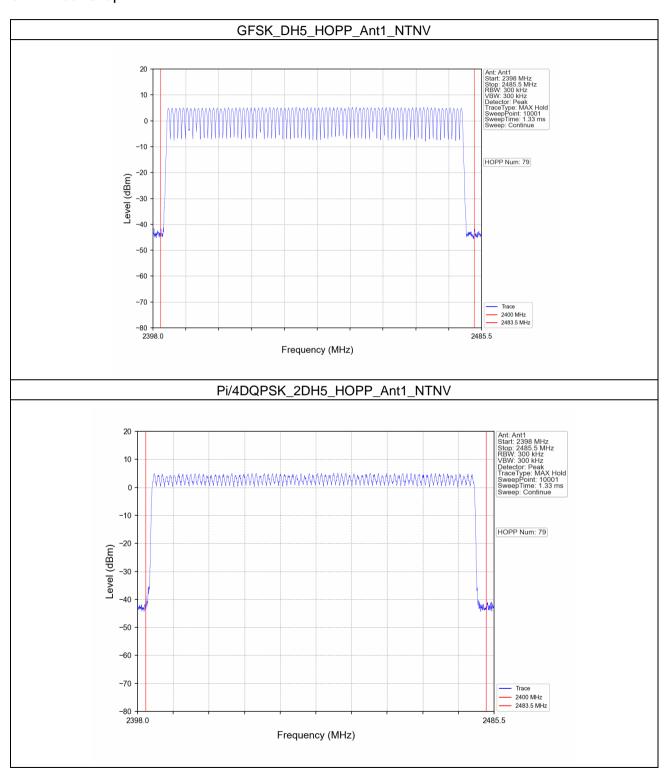


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5.1.2 Test Graph





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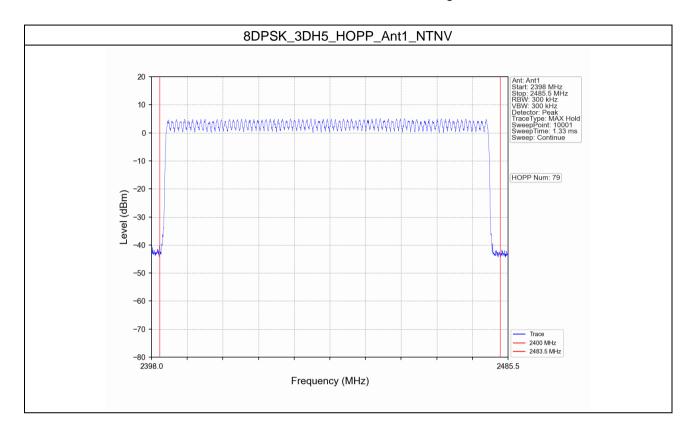
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6. Time of Occupancy (Dwell Time)

6.1 Ant1

6.1.1 Test Result

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	НОРР	DH1	0.384	31.600	317	121.728	<=400	Pass
			DH3	1.648	31.600	168	276.864	<=400	Pass
			DH5	2.894	31.600	112	324.128	<=400	Pass
Pi/4DQPSK	SISO	НОРР	2DH1	0.400	31.600	320	128.000	<=400	Pass
			2DH3	1.646	31.600	159	261.714	<=400	Pass
			2DH5	2.900	31.600	102	295.800	<=400	Pass
8DPSK	SISO	HOPP	3DH1	2.902	31.600	114	330.828	<=400	Pass
			3DH3	1.650	31.600	152	250.800	<=400	Pass
			3DH5	2.902	31.600	120	348.240	<=400	Pass



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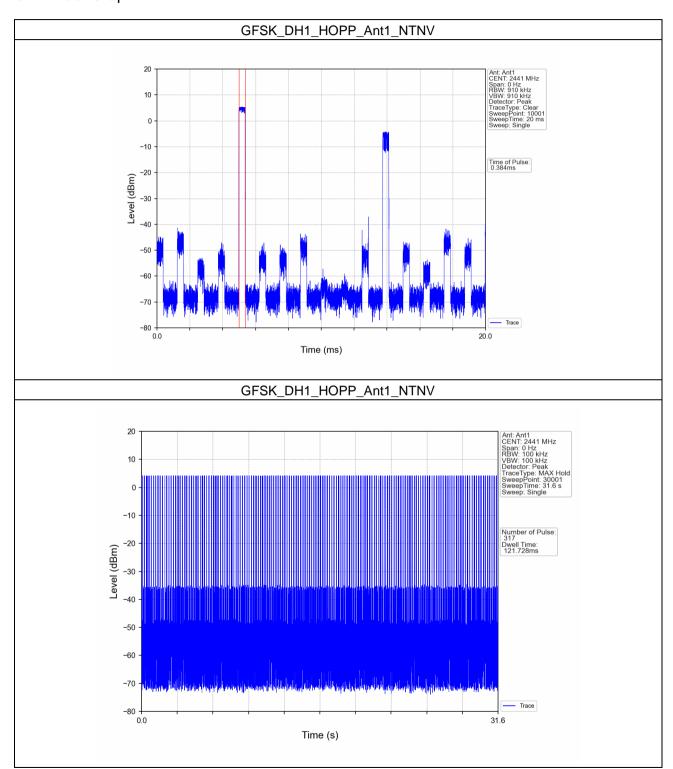


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6.1.2 Test Graph





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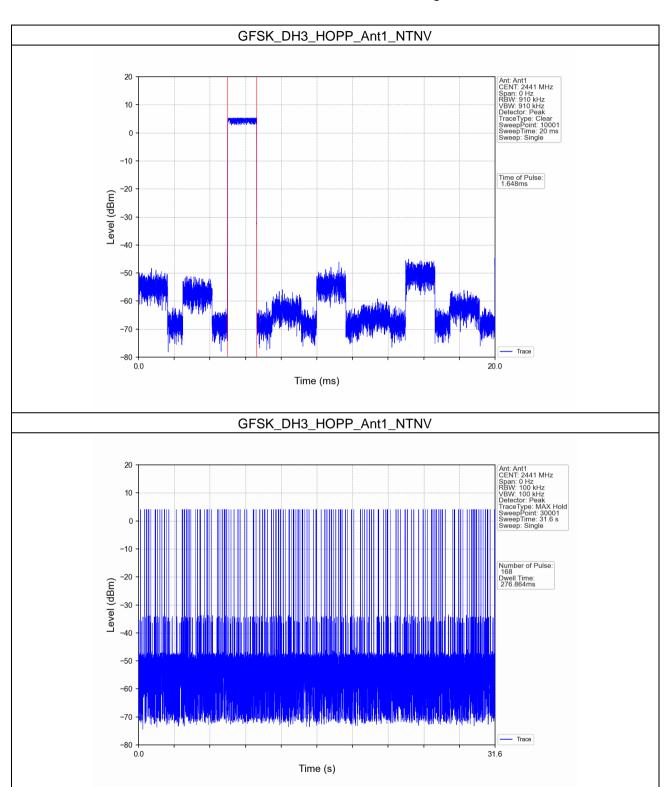
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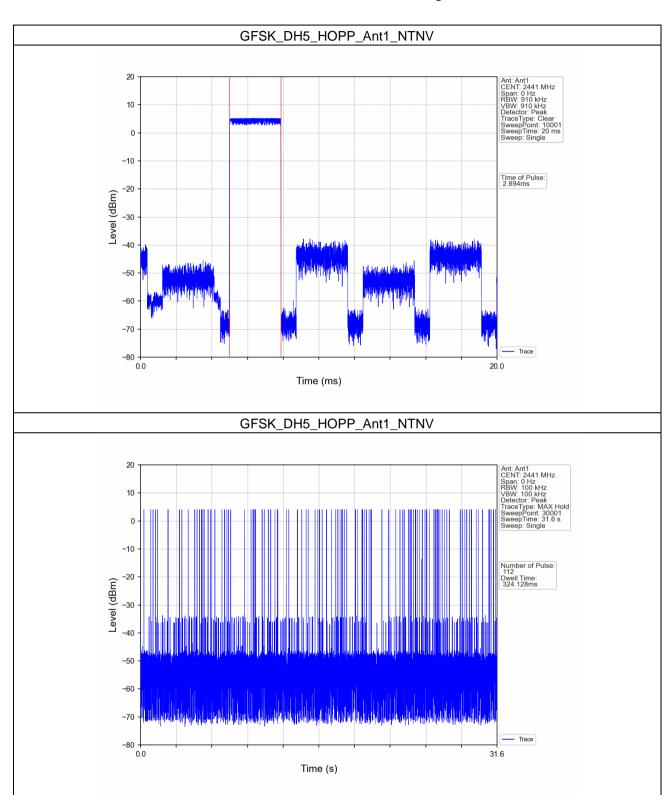
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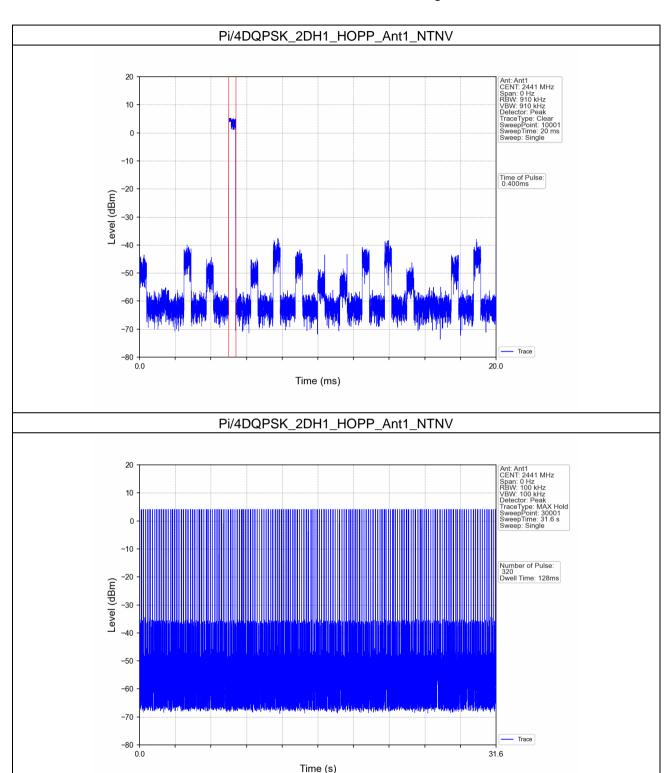




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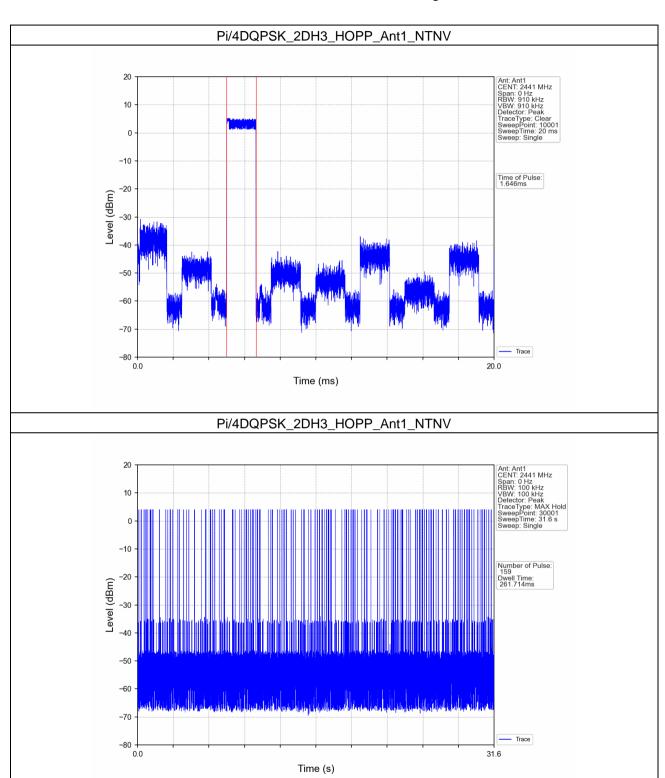




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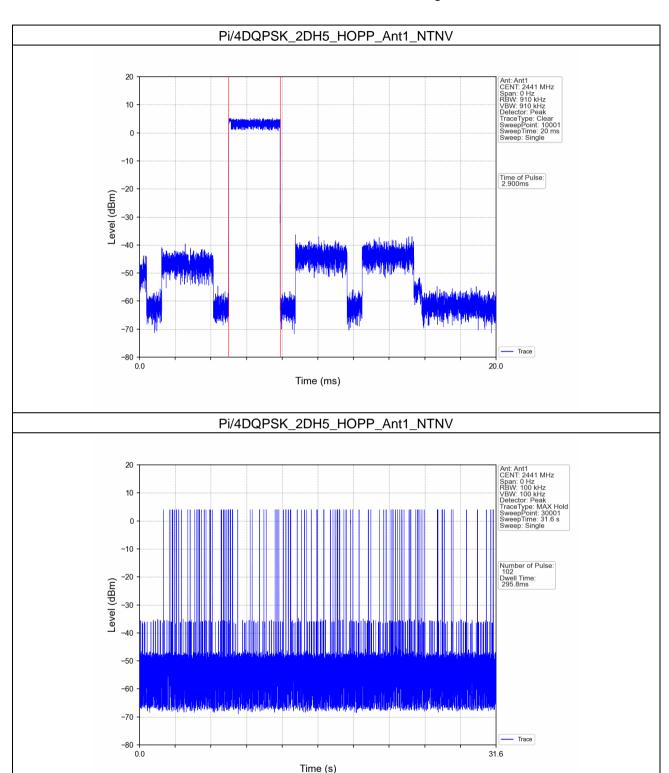
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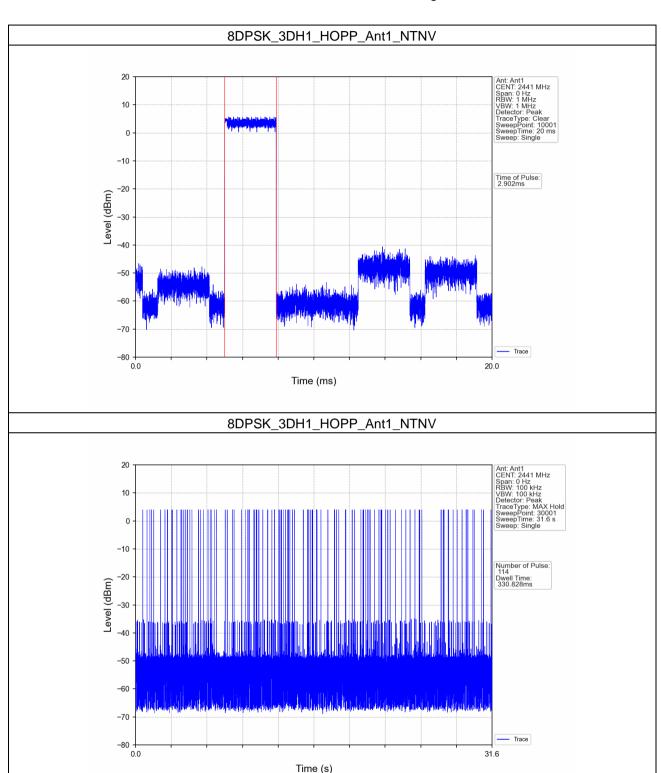




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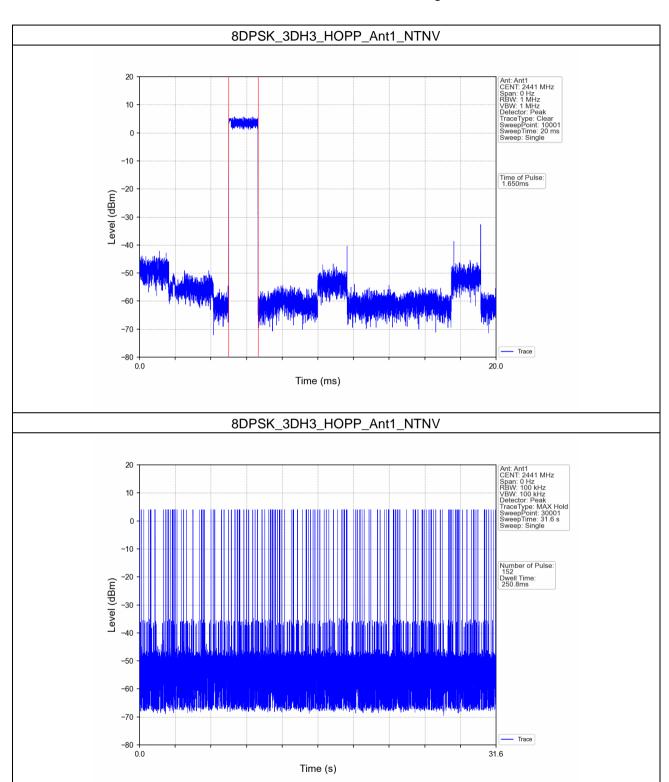
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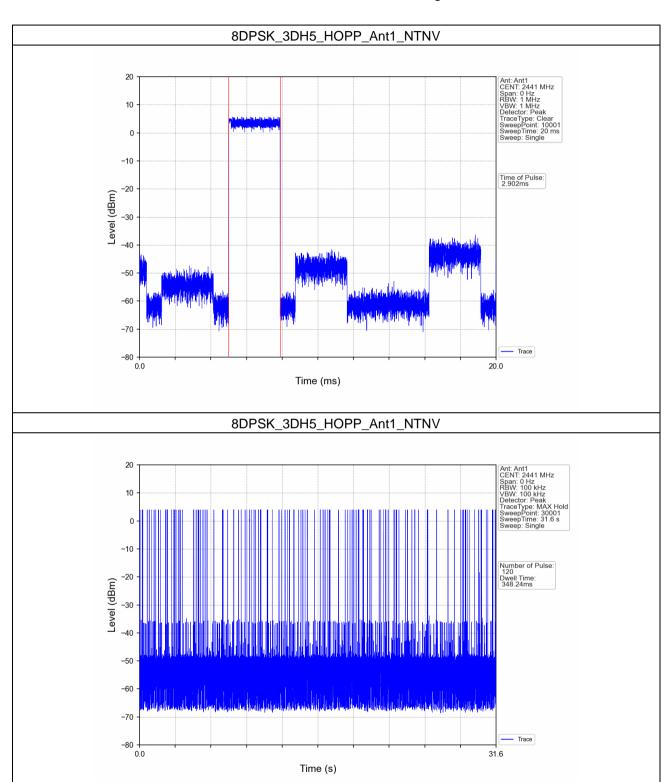
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7. Unwanted Emissions In Non-restricted Frequency Bands

7.1 Ref

7.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
		2402	DH5	1	1.30
GFSK	SISO	2441	DH5	1	1.44
		2480	DH5	1	1.18
		2402	2DH5	1	1.29
Pi/4DQPSK	SISO	2441	2DH5	1	1.42
		2480	2DH5	1	1.13
	SISO	2402	3DH5	1	1.29
8DPSK		2441	3DH5	1	1.39
		2480	3DH5	1	1.15



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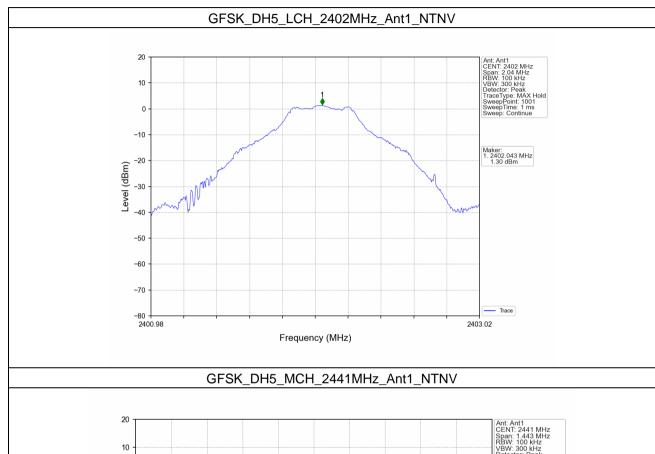


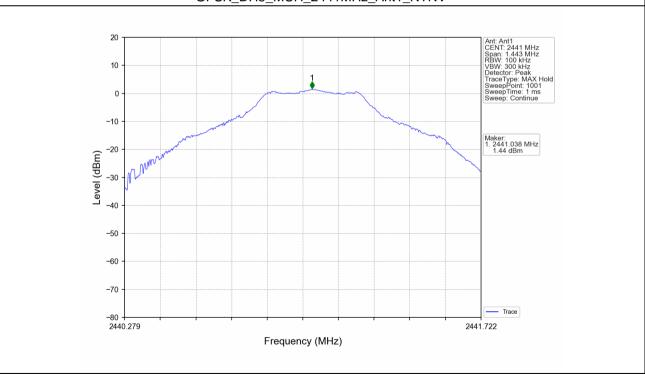
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7.1.2 Test Graph





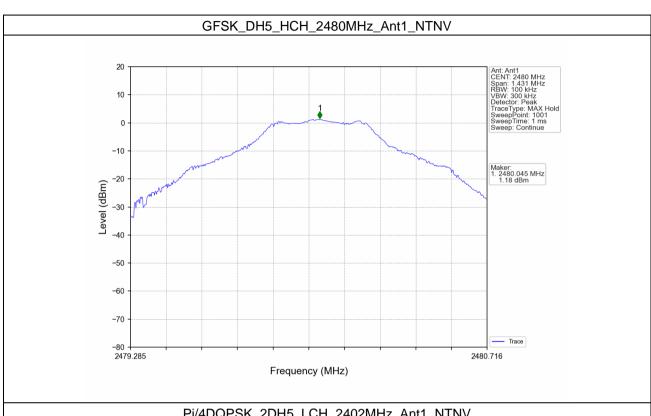


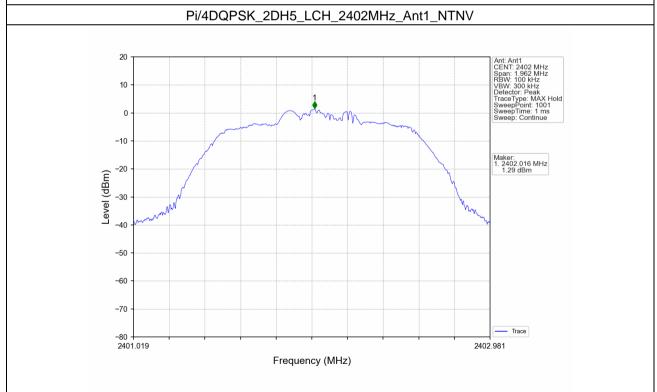


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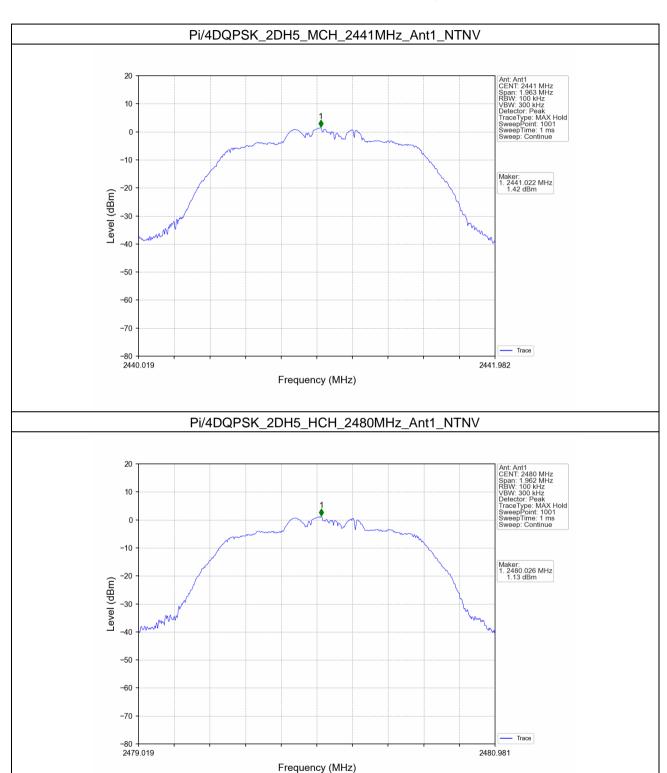




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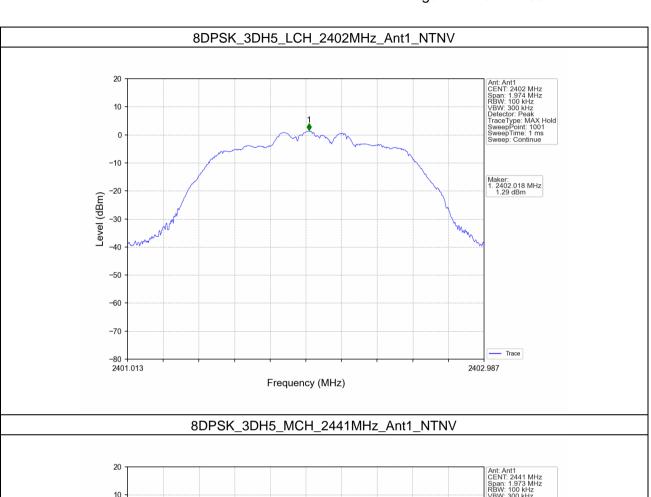
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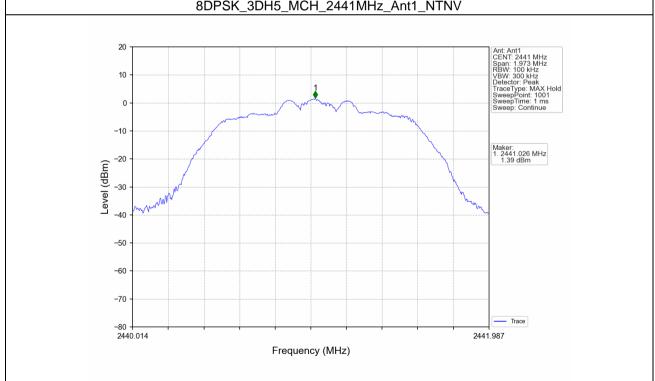


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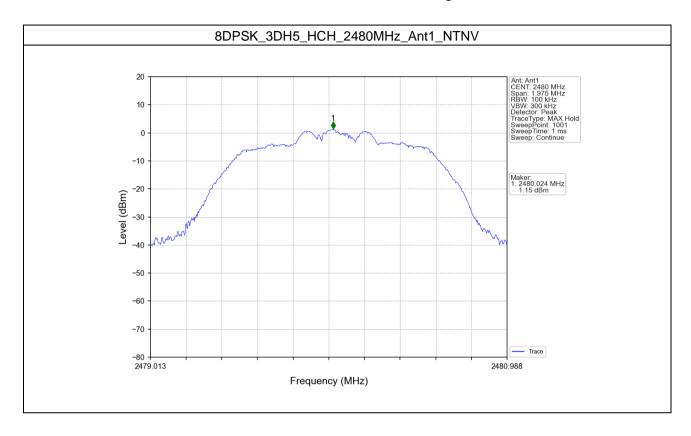
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7.2 CSE

7.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict	
GFSK	SISO	2402	DH5	1	1.44	-18.56	Pass	
		2441	DH5	1	1.44	-18.56	Pass	
		2480	DH5	1	1.44	-18.56	Pass	
		HOPP	DH5	1	1.44	-18.56	Pass	
					1.44	-18.56	Pass	
Pi/4DQPSK	SISO	2402	2DH5	1	1.42	-18.58	Pass	
		2441	2DH5	1	1.42	-18.58	Pass	
		2480	2DH5	1	1.42	-18.58	Pass	
		НОРР	2DH5	1	1.42	-18.58	Pass	
					1.42	-18.58	Pass	
8DPSK	SISO		2402	3DH5	1	1.39	-18.61	Pass
		2441	3DH5	1	1.39	-18.61	Pass	
		2480	3DH5	1	1.39	-18.61	Pass	
		НОРР	2DHE	1	1.39	-18.61	Pass	
			3DH5		1.39	-18.61	Pass	



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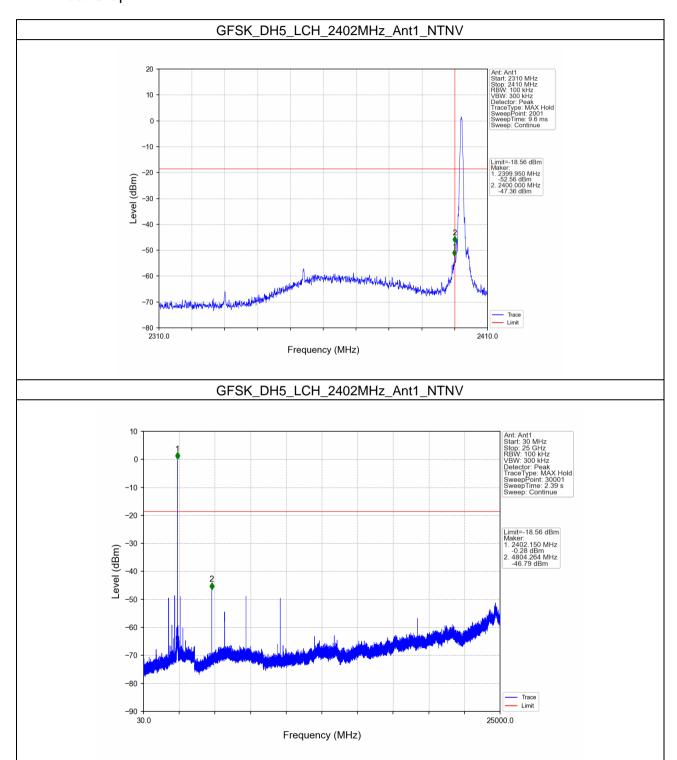


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7.2.2 Test Graph





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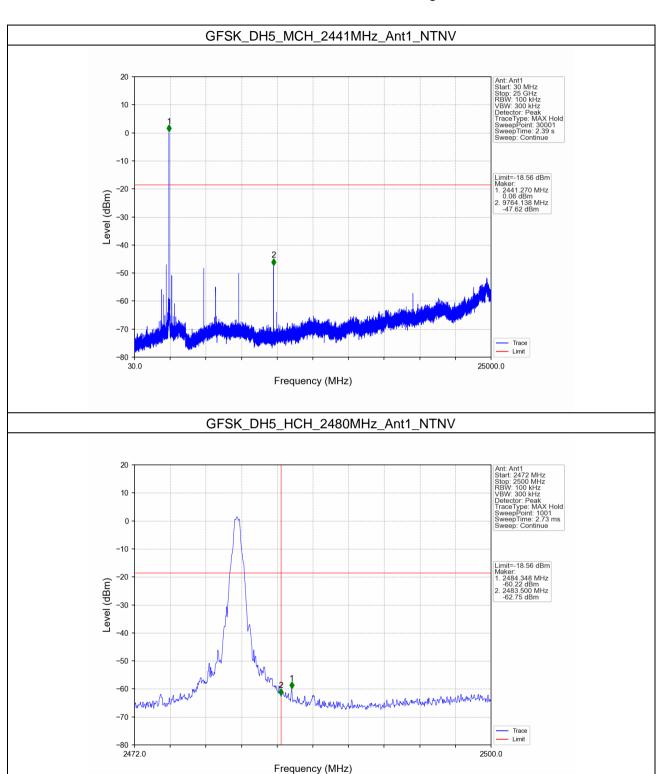
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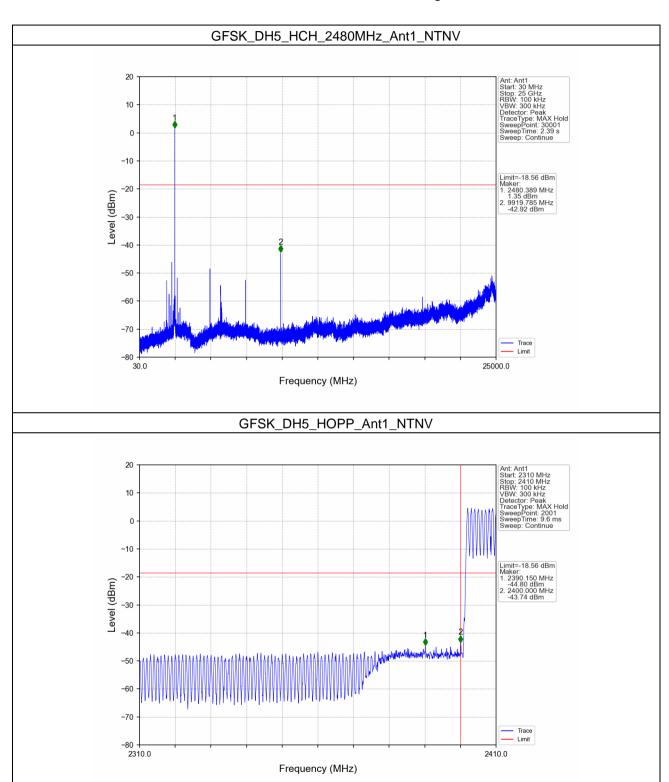




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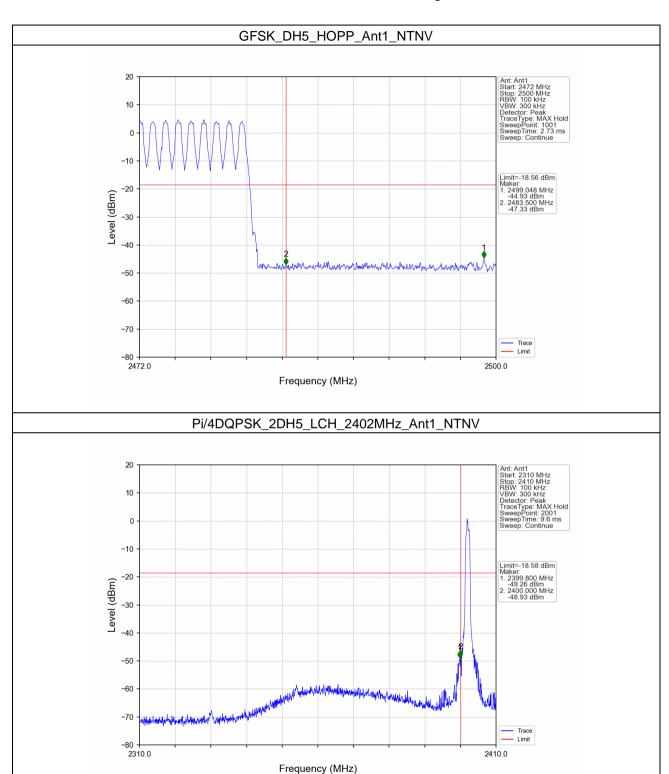
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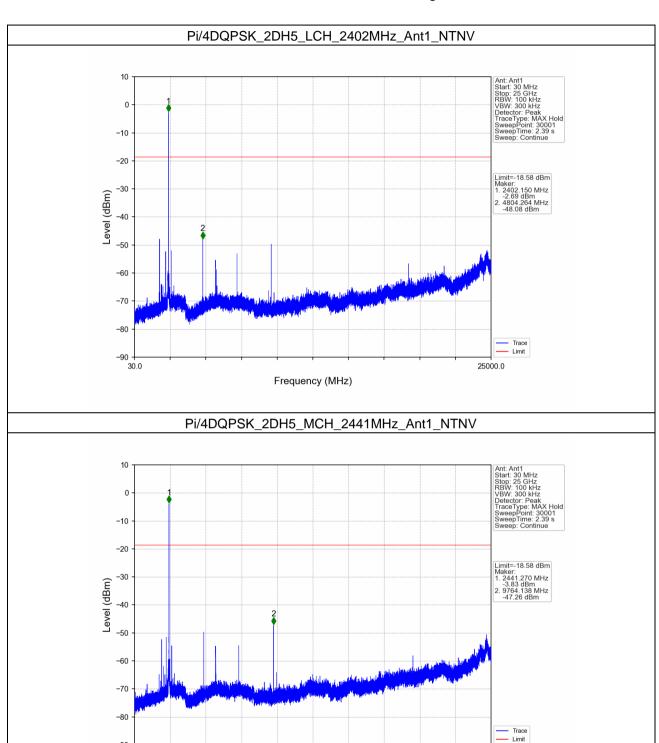




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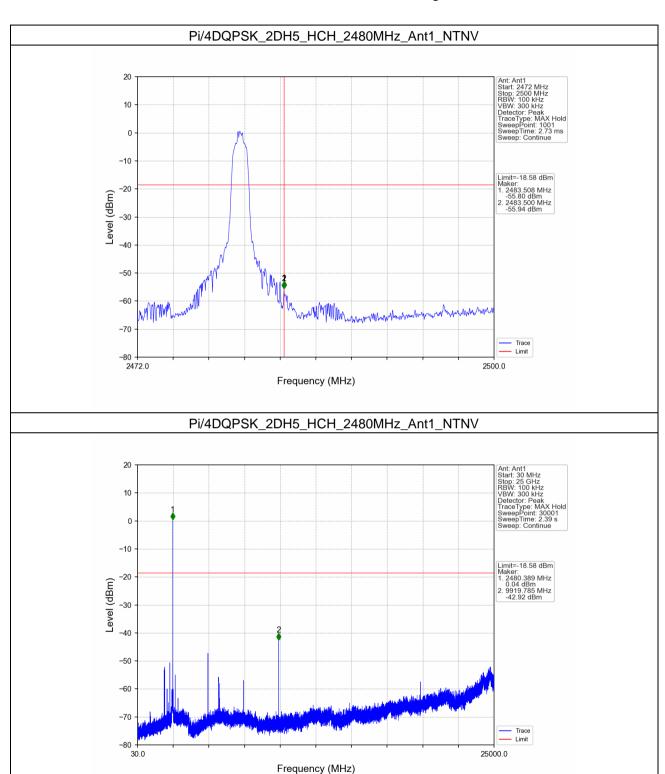
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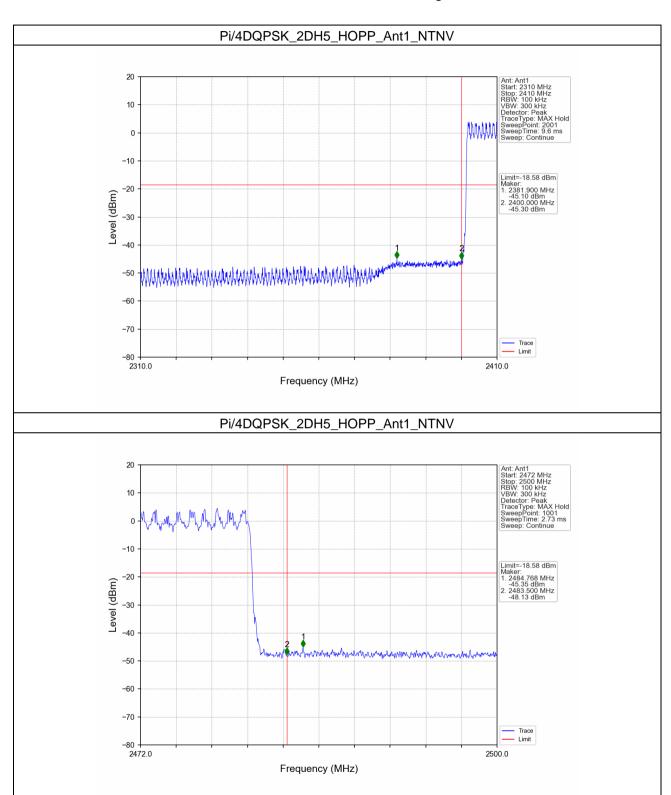




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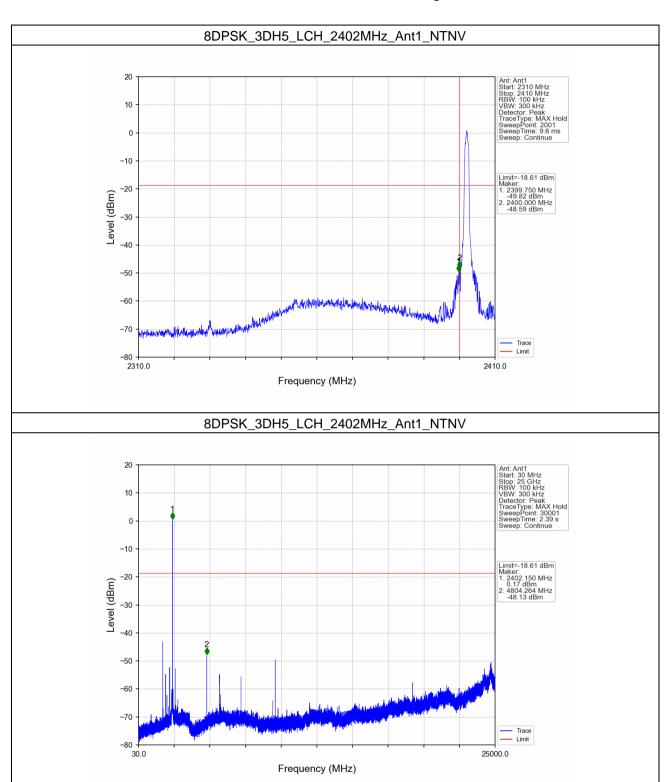
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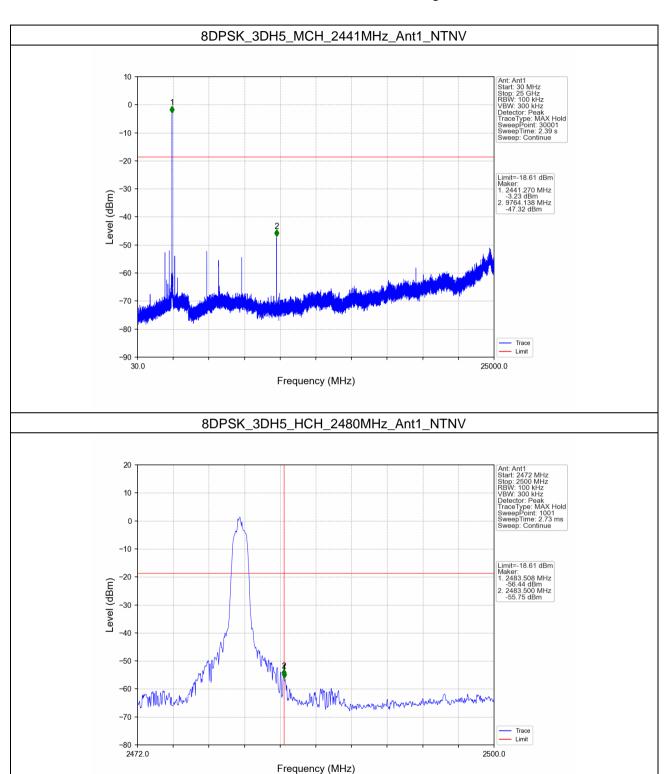




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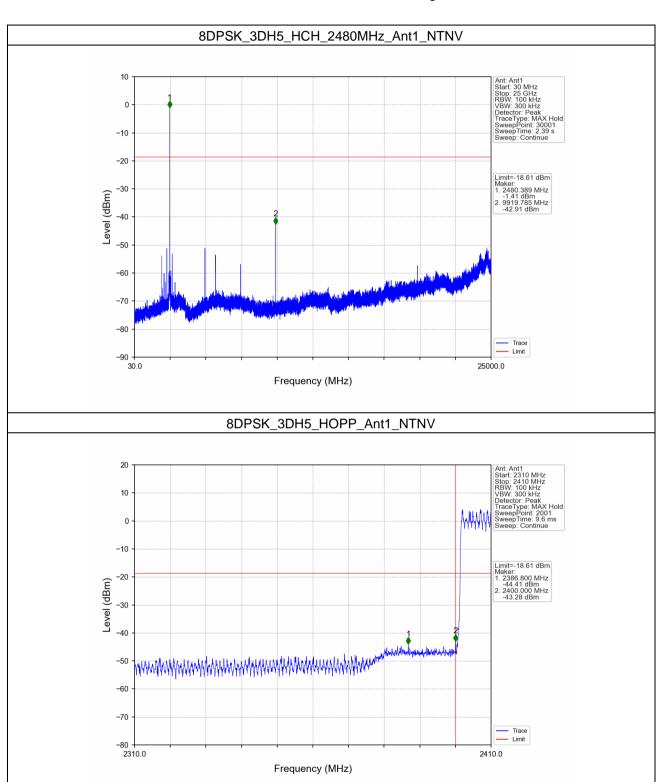
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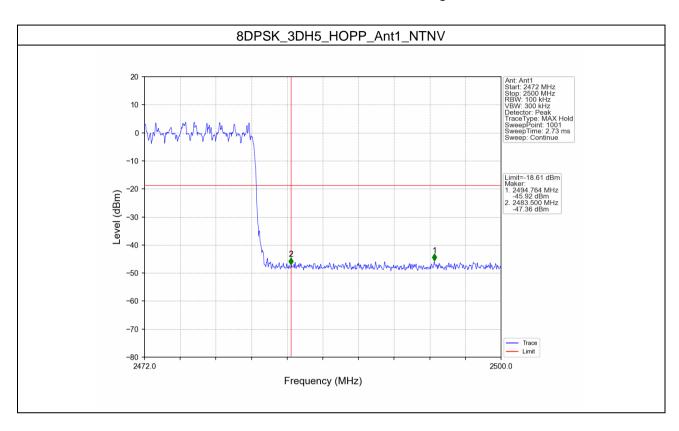
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