

Report No.: FYCR220300001402

Page: 1 of 111

TEST REPORT

Application No.: FYCR2203000014AT **Applicant:** Voxx Accessories Corp.

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

Manufacturer: Voxx Accessories Corp.

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

Factory: Shenzhen Steed Technology Co., Ltd

Address of Factory: 2nd Floor, A2 Building, Silicon valley automotive electronics pioneer park,

Guiyue road, Dafu community, Guanlan street, Longhua district, Shenzhen,

China

Equipment Under Test (EUT):

EUT Name: Fabric Portable Wireless Speaker

Model No.: SP7
FCC ID: VIXSP7

Trade Mark: AR (Acoustic Research)

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

Date of Receipt: 2022-03-10

Date of Test: 2022-03-11 to 2022-04-18

Date of Issue: 2022-04-19

Test Result: Pass*

Kidd Yang EMC Laboratory Manager



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



Report No.: FYCR220300001402

Page: 2 of 111

	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2022-04-19		Original				

Authorized for issue by:		
	Tree Zhan	
	Tree Zhan/Project Engineer	
	WinkeyWarg	
	Winkey Wang/Reviewer	



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Report No.: FYCR220300001402

Page: 3 of 111

2 Test Summary

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement		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	
Conducted Peak Output Power		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	47 CFR Part 15,	ANSI C63.10 (2013) Section 7.8.4	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass	
Conducted Band Edges Measurement	Subpart C 15.247	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	
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	



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Report No.: FYCR220300001402

Page: 4 of 111

3 Contents

		Page
1	COVER PAGE	1
2	TEST SUMMARY	3
3	CONTENTS	4
4	GENERAL INFORMATION	6
	4.1 DETAILS OF E.U.T.	6
	4.2 DESCRIPTION OF SUPPORT UNITS	
	4.3 MEASUREMENT UNCERTAINTY	
	4.4 TEST LOCATION	7
	4.5 TEST FACILITY	
	4.6 DEVIATION FROM STANDARDS	
	4.7 ABNORMALITIES FROM STANDARD CONDITIONS	7
5	EQUIPMENT LIST	8
6	RADIO SPECTRUM TECHNICAL REQUIREMENT	12
O		
	6.1 ANTENNA REQUIREMENT	
	6.1.1 Test Requirement:	
	6.1.2 Conclusion	
	6.2 OTHER REQUIREMENTS FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM HOPPING SEQUENCE . 6.2.1 Test Requirement:	
	6.2.1 Test Requirement:	
_		
7		
	7.1 CONDUCTED EMISSIONS AT AC POWER LINE (150kHz-30MHz)	16
	7.1.1 E.U.T. Operation	
	7.1.2 Test Mode Description	
	7.1.3 Test Setup Diagram	
	7.1.4 Measurement Procedure and Data	
	7.2 CONDUCTED PEAK OUTPUT POWER	
	7.2.1 E.O.T. Operation	
	7.2.3 Test Setup Diagram	
	7.2.4 Measurement Procedure and Data	
	7.3 20DB BANDWIDTH	
	7.3.1 E.U.T. Operation	
	7.3.2 Test Mode Description	
	7.3.3 Test Setup Diagram	
	7.3.4 Measurement Procedure and Data	
	7.4 CARRIER FREQUENCIES SEPARATION	23
	7.4.1 E.U.T. Operation	
	7.4.2 Test Mode Description	
	7.4.3 Test Setup Diagram	
	7.4.4 Measurement Procedure and Data	23



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Report No.: FYCR220300001402

Page: 5 of 111

7.	5 H	HOPPING CHANNEL NUMBER	24
	7.5.1	E.U.T. Operation	
	7.5.2	Test Mode Description	24
	7.5.3	Test Setup Diagram	24
	7.5.4	Measurement Procedure and Data	
7.	6 [DWELL TIME	25
	7.6.1	E.U.T. Operation	
	7.6.2	Test Mode Description	
	7.6.3	Test Setup Diagram	
	7.6.4	Measurement Procedure and Data	
7.	7 (CONDUCTED BAND EDGES MEASUREMENT	
	7.7.1	E.U.T. Operation	
	7.7.2	Test Mode Description	
	7.7.3	Test Setup Diagram	
	7.7.4	Measurement Procedure and Data	
7.	8 (CONDUCTED SPURIOUS EMISSIONS	
	7.8.1	E.U.T. Operation	
	7.8.2	Test Mode Description	
	7.8.3	Test Setup Diagram	
	7.8.4	Measurement Procedure and Data	
7.		RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	
	7.9.1	E.U.T. Operation	
	7.9.2	Test Mode Description	
	7.9.3	Test Setup Diagram	
	7.9.4	Measurement Procedure and Data	
7.		RADIATED SPURIOUS EMISSIONS BELOW 1GHZ	
	7.10.1		
	7.10.2	,	
	7.10.3	, 5	
	7.10.4		
7.		RADIATED SPURIOUS EMISSIONS ABOVE 1GHZ	
	7.11.1	,	
	7.11.2	•	
	7.11.3	1 5	
	7.11.4	Measurement Procedure and Data	42
8	TEST	SETUP PHOTO	49
9	EUT (CONSTRUCTIONAL DETAILS (EUT PHOTOS)	49
10	APPE	NDIX	50



8

9

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Report No.: FYCR220300001402

Page: 6 of 111

4 General Information

4.1 Details of E.U.T.

Power Supply:	DC 3.7V/1200mAh lithium ion rechargeable battery which charged by Micro-USB port.
Cable(s):	USB Cable 56cm unshielded.
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 Classic
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:	-0.58dBi

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Provided by customers	DSC-5PFC-05 FEU 050060	N/A

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 2.1 dB (9kHz to 30MHz)
Conducted Peak Output Power	± 0.8dB
20dB Bandwidth	± 0.3%
Carrier Frequencies Separation	± 0.3%
Hopping Channel Number	± 0.3%
Dwell Time	± 0.3%
Conducted Band Edges Measurement	± 2.7dB
Conducted Spurious Emissions	± 2.7dB
Radiated Emissions which fall in the restricted bands	± 4.4dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 3.1dB (Below 1GHz)
Radiated Spurious Emissions Above 1GHz	± 4.4dB (Above 1GHz)



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Report No.: FYCR220300001402

Page: 7 of 111

4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

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

Tel: +86 755 8866 3988 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. 6606.01)

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

• FCC -Designation Number: CN1322

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

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Report No.: FYCR220300001402

Page: 8 of 111

5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	CRT	N/A	SEM001-14	2021/7/13	2024/7/12	
EMI Test Receiver(9kHz-3GHz)	Rohde & Schwarz	ESCI	SEM004-01	2021/7/13	2022/7/12	
Two-Line V- Network(9kHz-30MHz)	Rohde & Schwarz	ENV216	SEM007-16	2021/7/13	2022/7/12	
Two-Line V- Network(9kHz-30MHz)	Rohde & Schwarz	ESH3-Z5	SEM007-22	2021/7/13	2022/7/12	

Conducted Peak Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12	
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2021/7/13	2022/7/12	
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12	
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021/7/13	2022/7/12	

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal Analyzer(10Hz- 26.5GHz)	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021/7/13	2022/7/12

Carrier Frequencies Separation					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal Analyzer(10Hz- 26.5GHz)	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12



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Report No.: FYCR220300001402

Page: 9 of 111

Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021/7/13	2022/7/12

Hopping Channel Number					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal Analyzer(10Hz- 26.5GHz)	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021/7/13	2022/7/12

Dwell Time					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal Analyzer(10Hz- 26.5GHz)	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021/7/13	2022/7/12

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal Analyzer(10Hz- 26.5GHz)	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021/7/13	2022/7/12



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Report No.: FYCR220300001402

Page: 10 of 111

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal Analyzer(10Hz- 26.5GHz)	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021/7/13	2022/7/12

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna(150MHz-1GHz)	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna(9kHz- 30MHz)	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver(20Hz- 8.4GHz)	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier (0.1- 1.3GHz)	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn (1- 18GHz)	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer(20Hz-43GHz)	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier(100MHz- 18GHz)	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2021/7/13	2022/7/12
Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12
Pre-amplifier(18GHz- 26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12



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Report No.: FYCR220300001402

Page: 11 of 111

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna(150MHz-1GHz)	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna(9kHz- 30MHz)	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver(20Hz- 8.4GHz)	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier (0.1- 1.3GHz)	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Spectrum Analyzer(20Hz-43GHz)	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier(100MHz- 18GHz)	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2021/7/13	2022/7/12

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
MXE EMI receiver(20Hz- 8.4GHz)	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier (0.1- 1.3GHz)	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn (1- 18GHz)	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer(20Hz-43GHz)	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier(100MHz- 18GHz)	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2021/7/13	2022/7/12
Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12
Pre-amplifier(18GHz- 26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12



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Report No.: FYCR220300001402

Page: 12 of 111

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2021-07-13	2022-07-12
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2021-07-13	2022-07-12
Barometer	DUMAI	DYM3	SEM002-24	2021-07-13	2022-07-12



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Report No.: FYCR220300001402

Page: 13 of 111

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -0.58 dBi.

Antenna location: Refer to internal photo.



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Report No.: FYCR220300001402

Page: 14 of 111

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.



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Report No.: FYCR220300001402

Page: 15 of 111

Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.



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Report No.: FYCR220300001402

Page: 16 of 111

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:

Fraguency of emission/MUs	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 resolution bandwidth) 0.15M to 30MHz				

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

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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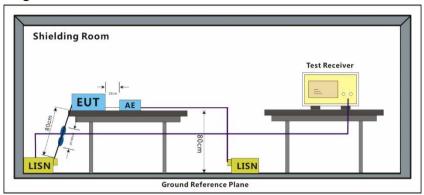
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Report No.: FYCR220300001402

Page: 17 of 111

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 $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$ 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



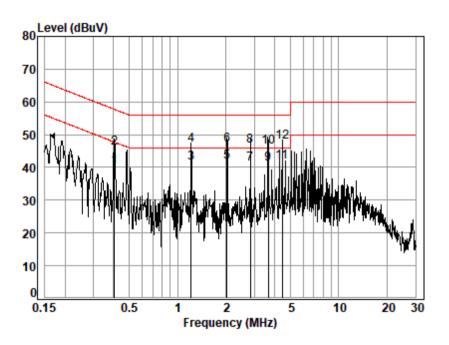
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Report No.: FYCR220300001402

Page: 18 of 111

Test Mode: 01; Line: Live line



Site : Shielding Room

Condition: Line Job No. : 00014AT

Test mode: 01

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.40	0.05	0.10	40.07	40.22	47.77	-7.55	Average
2	0.40	0.05	0.10	45.74	45.89	57.77	-11.88	QP
3	1.22	0.11	0.13	41.20	41.44	46.00	-4.56	Average
4	1.22	0.11	0.13	46.56	46.80	56.00	-9.20	QP
5	2.03	0.16	0.15	41.31	41.62	46.00	-4.38	Average
6	2.03	0.16	0.15	46.56	46.87	56.00	-9.13	QP
7	2.84	0.16	0.18	40.86	41.20	46.00	-4.80	Average
8	2.84	0.16	0.18	46.11	46.45	56.00	-9.55	QP
9	3.65	0.16	0.21	40.58	40.95	46.00	-5.05	Average
10	3.65	0.16	0.21	45.82	46.19	56.00	-9.81	QP
11	4.45	0.16	0.23	41.14	41.53	46.00	-4.47	Average
12	4.45	0.16	0.23	47.39	47.78	56.00	-8.22	QP



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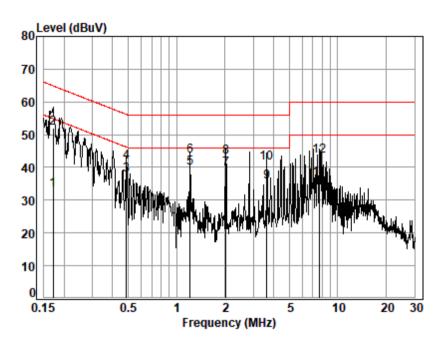
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Report No.: FYCR220300001402

Page: 19 of 111

Test Mode: 01; Line: Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 00014AT

Test mode: 01

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.02	0.10	32.95	33.07	54.90	-21.83	Average
2	0.17	0.02	0.10	51.92	52.04	64.90	-12.86	QP
3	0.49	0.06	0.11	37.68	37.85	46.23	-8.38	Average
4	0.49	0.06	0.11	41.45	41.62	56.23	-14.61	QP
5	1.22	0.11	0.13	39.50	39.74	46.00	-6.26	Average
6	1.22	0.11	0.13	43.14	43.38	56.00	-12.62	QP
7	2.03	0.16	0.15	39.11	39.42	46.00	-6.58	Average
8	2.03	0.16	0.15	42.87	43.18	56.00	-12.82	QP
9	3.64	0.16	0.20	35.28	35.64	46.00	-10.36	Average
10	3.64	0.16	0.20	40.99	41.35	56.00	-14.65	QP
11	7.69	0.17	0.35	35.86	36.38	50.00	-13.62	Average
12	7.69	0.17	0.35	43.02	43.54	60.00	-16.46	QP



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Report No.: FYCR220300001402

Page: 20 of 111

7.2 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	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

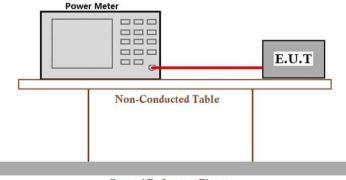
Operating Environment:

Temperature: 23.6 °C Humidity: 51.2 % RH Atmospheric Pressure: 1020 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



Ground Reference Plane



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Page: 21 of 111

7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: FYCR220300001402

Page: 22 of 111

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

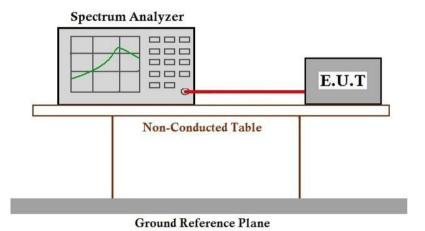
Operating Environment:

Temperature: 23.6 °C Humidity: 51.2 % RH Atmospheric Pressure: 1020 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



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: FYCR220300001402

Page: 23 of 111

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

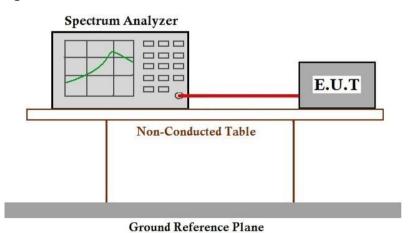
Operating Environment:

Temperature: 23.6 °C Humidity: 51.2 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description	
i illai test	Code	TV Have the Keep the EUT is for a conclusion as the ML OFOK and Listing	
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.	

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: FYCR220300001402

Page: 24 of 111

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)
002.028	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

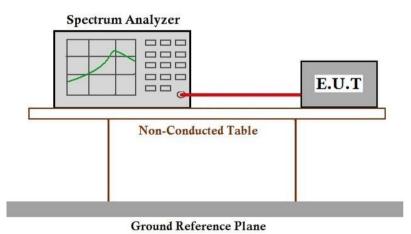
Operating Environment:

Temperature: 23.6 °C Humidity: 51.2 % RH Atmospheric Pressure: 1020 mbar

7.5.2 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.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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Report No.: FYCR220300001402

Page: 25 of 111

7.6 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
902-928	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

7.6.1 E.U.T. Operation

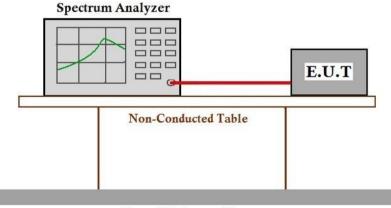
Operating Environment:

Temperature: 23.6 °C Humidity: 51.2 % RH Atmospheric Pressure: 1020 mbar

7.6.2 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.

7.6.3 Test Setup Diagram



Ground Reference Plane



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Page: 26 of 111

7.6.4 Measurement Procedure and Data

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Report No.: FYCR220300001402

Page: 27 of 111

7.7 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).

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 51.2 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

1.1.2 10301	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	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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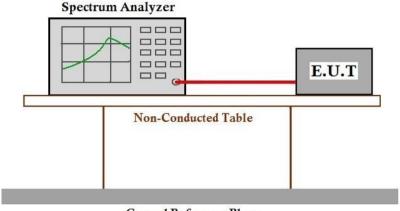
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Report No.: FYCR220300001402

Page: 28 of 111

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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Report No.: FYCR220300001402

Page: 29 of 111

7.8 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).

7.8.1 E.U.T. Operation

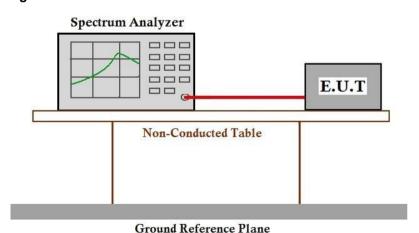
Operating Environment:

Temperature: 23.6 °C Humidity: 51.2 % RH Atmospheric Pressure: 1020 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





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Page: 30 of 111

7.8.4 Measurement Procedure and Data

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Report No.: FYCR220300001402

Page: 31 of 111

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

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.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

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.					
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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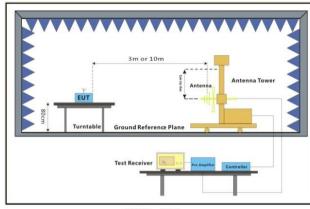
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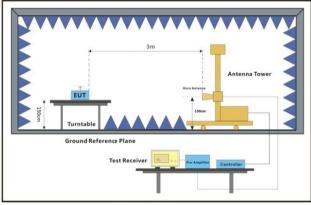


Report No.: FYCR220300001402

Page: 32 of 111

7.9.3 Test Setup Diagram





30MHz-1GHz Above 1GHz

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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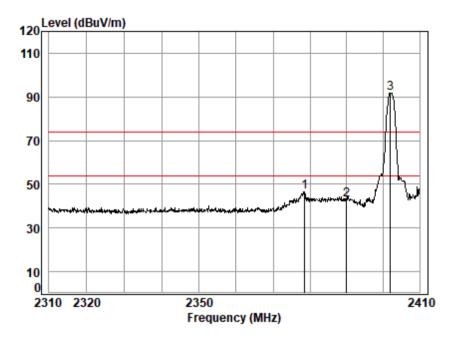
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Report No.: FYCR220300001402

Page: 33 of 111

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 00014AT/00015AT Mode : 2402 Band edge

Note : 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	2378.5460	4.47	27.63	48.21	62.80	46.69	74.00	-27.31	peak
2	2390.0000	4.48	27.72	48.21	58.96	42.95	74.00	-31.05	peak
3	p2402.0000	4.50	27.82	48.21	107.82	91.93	74.00	17.93	peak



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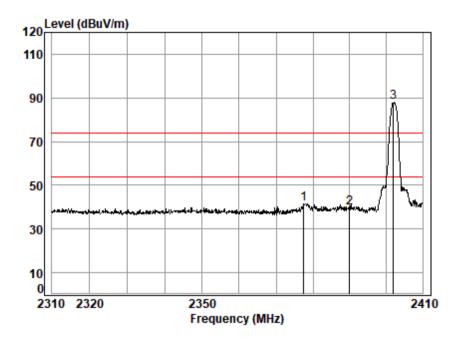
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Report No.: FYCR220300001402

Page: 34 of 111

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00014AT/00015AT Mode : 2402 Band edge

Note : BT

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2377.5380	4.47	27.62	48.21	57.87	41.75	74.00	-32.25	peak
2	2390.0000	4.48	27.72	48.21	55.67	39.66	74.00	-34.34	peak
3	p2402.0000	4.50	27.82	48.21	103.76	87.87	74.00	13.87	peak



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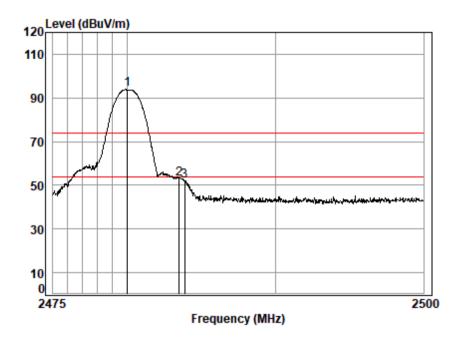
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Report No.: FYCR220300001402

Page: 35 of 111

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



Site : chamber

Condition: 3m HORIZONTAL : 00014AT/00015AT Job No Mode : 2480 Band edge

Note : 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	p2480.0000	4.58	27.88	48.19	109.51	93.78	74.00	19.78	peak
2	2483.5000	4.58	27.83	48.19	68.89	53.11	74.00	-20.89	peak
3	2483.8460	4.58	27.82	48.19	68.00	52.21	74.00	-21.79	peak



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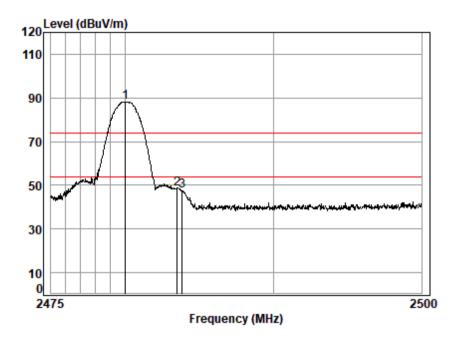
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Report No.: FYCR220300001402

Page: 36 of 111

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



Site : chamber

Condition: 3m VERTICAL

: 00014AT/00015AT Job No Mode : 2480 Band edge

Note : BT

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	p2480.0000	4.58	27.88	48.19	103.95	88.22	74.00	14.22	peak
2	2483.5000	4.58	27.83	48.19	64.13	48.35	74.00	-25.65	peak
3	2483.8210	4.58	27.82	48.19	63.40	47.61	74.00	-26.39	peak



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Report No.: FYCR220300001402

Page: 37 of 111

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

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

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

7.10.2 1030		- conputer
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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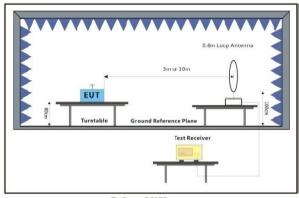
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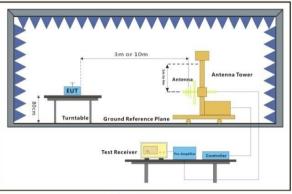


Report No.: FYCR220300001402

Page: 38 of 111

7.10.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

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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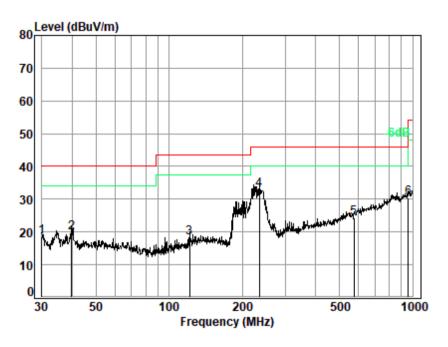
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Report No.: FYCR220300001402

Page: 39 of 111

Test Mode: 01; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00014AT

Mode : 01

		Cahla	Ant	Preamp	Road		Limit	Oven	
		Capie	AIIC	rrealily	iveau		LIMIT	over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.0000	0.18	16.39	25.90	27.96	18.63	40.00	-21.37	QP
2	39.7147	0.20	16.66	25.88	28.93	19.91	40.00	-20.09	QP
3	121.5486	0.93	15.85	25.68	27.04	18.14	43.50	-25.36	QP
4 p	234.1684	0.78	16.18	25.26	41.16	32.86	46.00	-13.14	QP
5	574.6259	1.97	23.87	26.69	25.12	24.27	46.00	-21.73	QP
6	958.7943	2.17	29.34	26.28	25.33	30.56	46.00	-15.44	OP.



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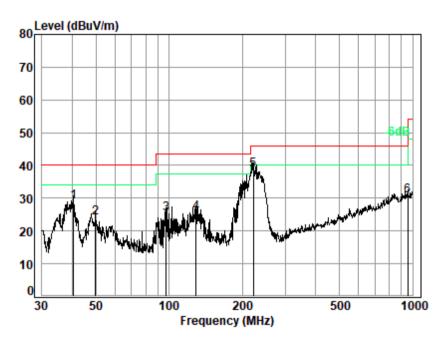
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Report No.: FYCR220300001402

Page: 40 of 111

Test Mode: 01; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 00014AT

Mode : 01

		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	40.4172	0.20	16.82	25.88	37.73	28.87	40.00	-11.13	QP	
2	49.7068	0.22	17.36	25.86	32.19	23.91	40.00	-16.09	QP	
3	97.4560	0.79	14.07	25.80	36.16	25.22	43.50	-18.28	QP	
4	129.0146	0.92	16.53	25.64	33.84	25.65	43.50	-17.85	QP	
5 p	221.3921	0.75	15.87	25.29	47.45	38.78	46.00	-7.22	QP	
6	955.4382	2.13	29.30	26.28	25.54	30.69	46.00	-15.31	OP	



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Report No.: FYCR220300001402

Page: 41 of 111

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

Measurement Distance: 3m

Limit:

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

7.11.1 E.U.T. Operation

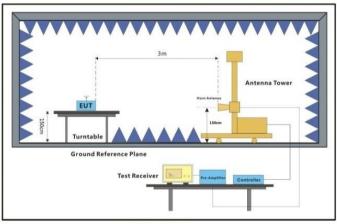
Operating Environment:

Temperature: 21.6 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

7.11.2 1030	mod b	eson phon
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.

7.11.3 Test Setup Diagram



Above 1GHz



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Report No.: FYCR220300001402

Page: 42 of 111

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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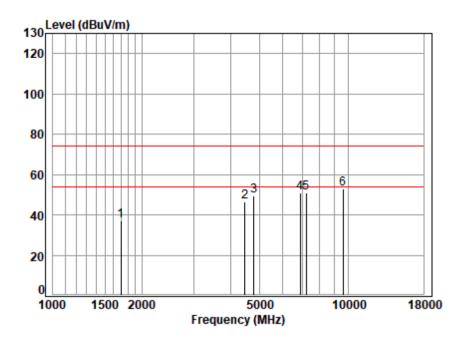
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Report No.: FYCR220300001402

Page: 43 of 111

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



Site : chamber

Condition: 3m HORIZONTAL
Job No : 00014AT/00015AT

Mode : 2402 TX RSE

Note : 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	1697.1290	3.48	25.17	46.37	54.63	36.91	74.00	-37.09	peak
2	4469.2140	6.96	31.57	46.40	54.10	46.23	74.00	-27.77	peak
3	4804.0000	7.61	32.33	46.78	56.38	49.54	74.00	-24.46	peak
4	6874.9060	7.57	35.90	46.68	54.35	51.14	74.00	-22.86	peak
5	7206.0000	7.75	36.52	46.50	53.17	50.94	74.00	-23.06	peak
6	p9608.0000	10.24	38.43	47.13	51.43	52.97	74.00	-21.03	peak



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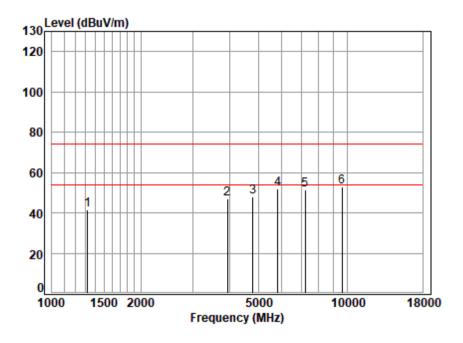
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Report No.: FYCR220300001402

Page: 44 of 111

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00014AT/00015AT

Mode : 2402 TX RSE

Note : BT

	_			Preamp						
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1319.7940	2.79	25.62	46.48	59.71	41.64	74.00	-32.36	peak	
2	3935.4930	6.79	30.68	45.86	55.12	46.73	74.00	-27.27	peak	
3	4804.0000	7.61	32.33	46.78	54.69	47.85	74.00	-26.15	peak	
4	5813.8120	7.40	33.79	46.59	57.47	52.07	74.00	-21.93	peak	
5	7206.0000	7.75	36.52	46.50	53.71	51.48	74.00	-22.52	peak	
6	n9608 0000	10 24	38 43	47 13	51 33	52 87	74 00	-21 13	neak	



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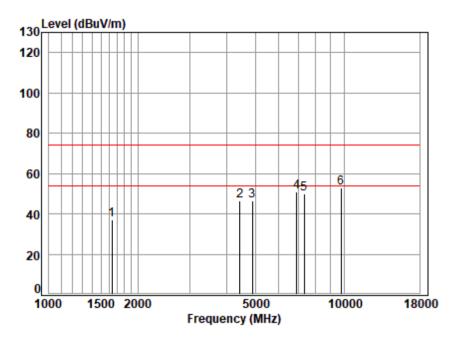
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Report No.: FYCR220300001402

Page: 45 of 111

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 00014AT/00015AT

Mode : 2441 TX RSE

Note : BT

	Enoa			Preamp Factor					Pomonic	
	rreq	LUSS	ractor	ractor	rever	rever	Line	LIMIT	Kelliark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1634.5430	3 35	25 28	16 30	5/ 9/	37 08	74 00	36 92	noak	
									•	
2	4443.4530	6.96	31.54	46.37	54.28	46.41	74.00	-27.59	peak	
3	4882.0000	7.77	32.60	46.87	53.15	46.65	74.00	-27.35	peak	
4	6914.7630	7.57	35.94	46.68	54.30	51.13	74.00	-22.87	peak	
5	7323.0000	7.84	36.64	46.40	51.89	49.97	74.00	-24.03	peak	
6	n9764 0000	10 44	38 24	47 24	51 41	52 85	74 00	-21 15	neak	



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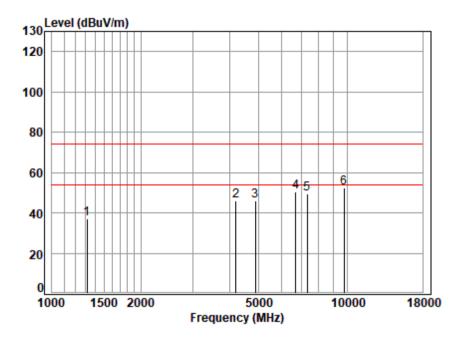
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Report No.: FYCR220300001402

Page: 46 of 111

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00014AT/00015AT

Mode : 2441 TX RSE

Note : BT

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1315.9850	2.78	25.62	46.48	55.08	37.00	74.00	-37.00	peak
2	4206.0110	6.91	31.12	46.07	54.13	46.09	74.00	-27.91	peak
3	4882.0000	7.77	32.60	46.87	52.69	46.19	74.00	-27.81	peak
4	6698.3730	7.58	35.77	46.64	53.67	50.38	74.00	-23.62	peak
5	7323.0000	7.84	36.64	46.40	51.25	49.33	74.00	-24.67	peak
6	n9764 0000	10 44	38 24	47 24	51 03	52 47	74 99	-21 53	neak



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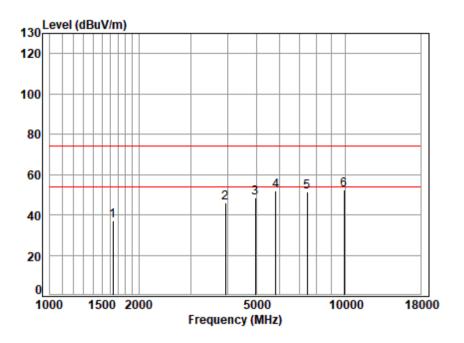
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Report No.: FYCR220300001402

Page: 47 of 111

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 00014AT/00015AT

Mode : 2480 TX RSE

Note : BT

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1634.5430	3.35	25.28	46.39	54.74	36.98	74.00	-37.02	peak	
3935.4930	6.79	30.68	45.86	54.12	45.73	74.00	-28.27	peak	
4960.0000	7.92	32.79	46.96	54.86	48.61	74.00	-25.39	peak	
5813.8120	7.40	33.79	46.59	57.12	51.72	74.00	-22.28	peak	
7440.0000	7.94	36.45	46.29	53.19	51.29	74.00	-22.71	peak	
p9920.0000	10.64	38.35	47.35	50.94	52.58	74.00	-21.42	peak	



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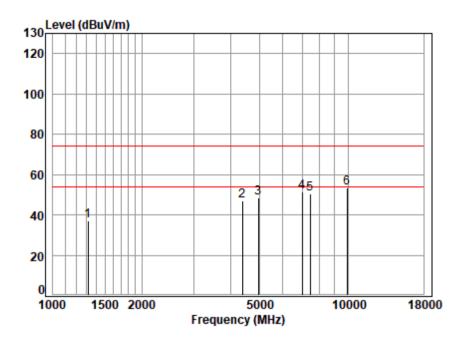
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Page: 48 of 111

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00014AT/00015AT

Mode : 2480 TX RSE

Note : 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	1315.9850	2.78	25.62	46.48	55.08	37.00	74.00	-37.00	peak
2	4392.3760	6.95	31.50	46.30	54.58	46.73	74.00	-27.27	peak
3	4960.0000	7.92	32.79	46.96	54.86	48.61	74.00	-25.39	peak
4	6995.1720	7.57	36.07	46.70	54.26	51.20	74.00	-22.80	peak
5	7440.0000	7.94	36.45	46.29	52.40	50.50	74.00	-23.50	peak
6	n9920_0000	10.64	38.35	47.35	51.85	53.49	74.00	-20.51	neak



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Report No.: FYCR220300001402

Page: 49 of 111

8 Test Setup Photo

Refer to Appendix - Test Setup Photos for FYCR2203000014AT.

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for FYCR2203000014AT.



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Report No.: FYCR220300001402

Page: 50 of 111

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 (%)	
GFSK	SISO	2402	DH5	2.878	3.750	76.75	1.15	0.04	
		2441	DH5	2.879	3.751	76.75	1.15	0.03	
		2480	DH5	2.878	3.749	76.77	1.15	0.03	
Pi/4DQPSK	SISO	2402	2DH5	2.885	3.750	76.93	1.14	0.03	
		2441	2DH5	2.885	3.750	76.93	1.14	0.03	
		2480	2DH5	2.886	3.751	76.94	1.14	0.03	
8DPSK	SISO	2402	3DH5	2.888	3.751	76.99	1.14	0.03	
		2441	3DH5	2.887	3.749	77.01	1.13	0.01	
		2480	3DH5	2.888	3.751	76.99	1.14	0.03	



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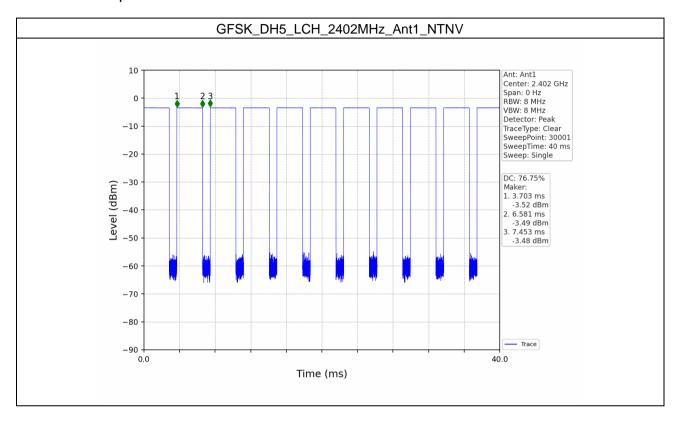
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Page: 51 of 111

1.1.2 Test Graph





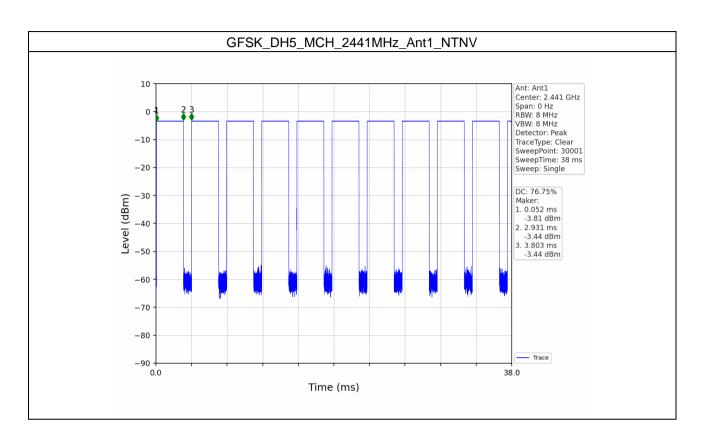
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Report No.: FYCR220300001402

Page: 52 of 111





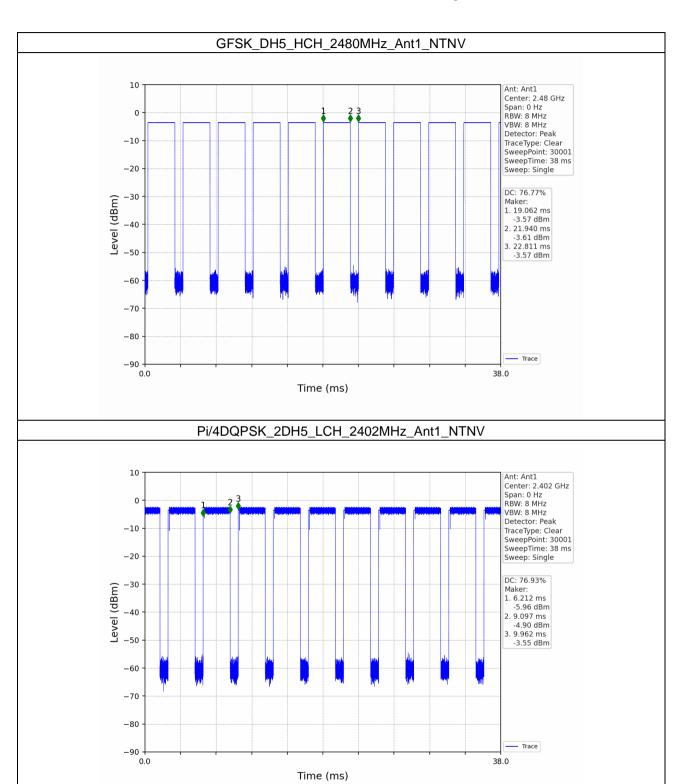
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Page: 53 of 111





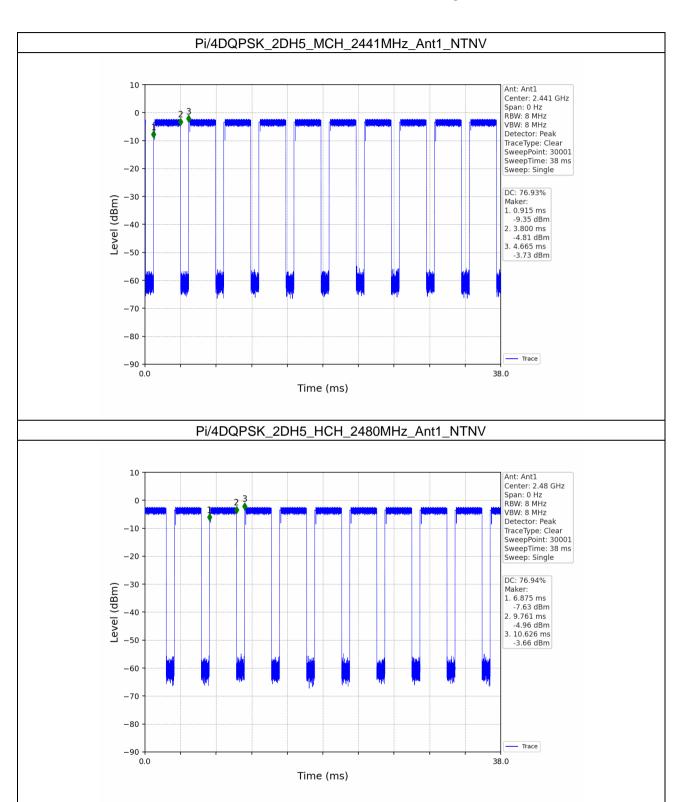
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Page: 54 of 111





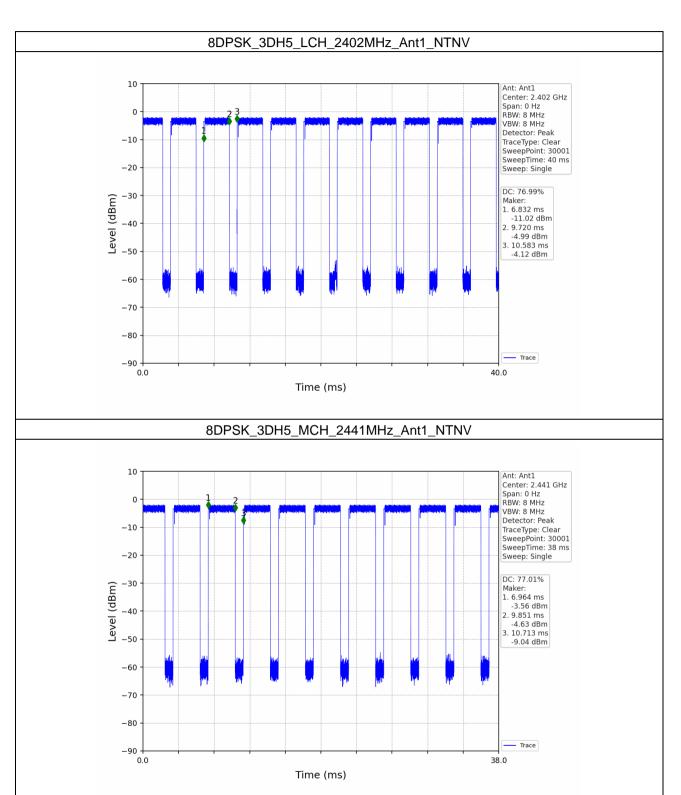
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Page: 55 of 111





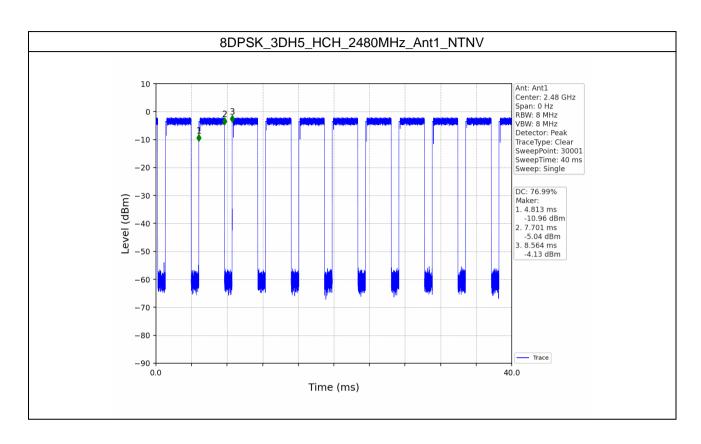
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Page: 56 of 111





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Report No.: FYCR220300001402

Page: 57 of 111

2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX	Frequency	Packet	Ant	99% Occupied Bandwidth (MHz)	Verdict	
	Type	(MHz)	Туре	AIII	Result		
GFSK	SISO	2402	DH5	1	0.850	Pass	
		2441	DH5	1	0.852	Pass	
		2480	DH5	1	0.852	Pass	
Pi/4DQPSK	SISO	2402	2DH5	1	1.168	Pass	
		2441	2DH5	1	1.165	Pass	
		2480	2DH5	1	1.167	Pass	
8DPSK	SISO	2402	3DH5	1	1.176	Pass	
		2441	3DH5	1	1.177	Pass	
		2480	3DH5	1	1.176	Pass	



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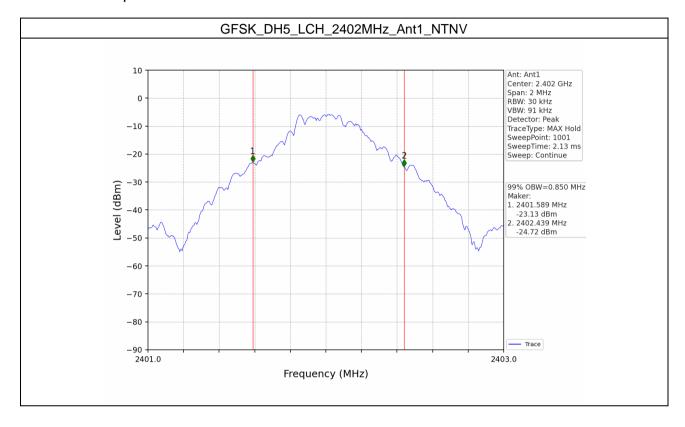
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Page: 58 of 111

2.1.2 Test Graph





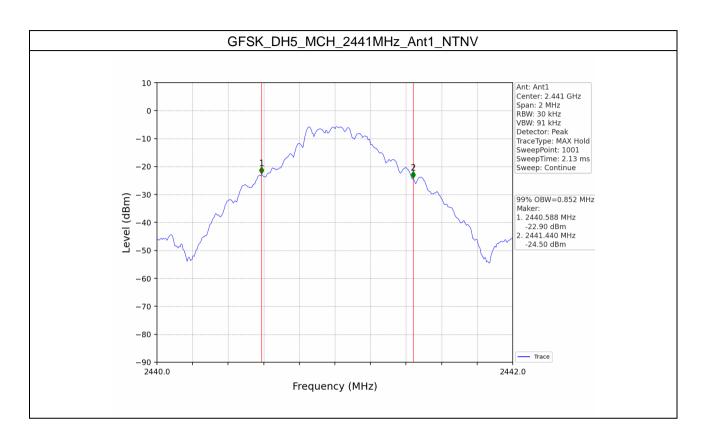
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Report No.: FYCR220300001402

Page: 59 of 111





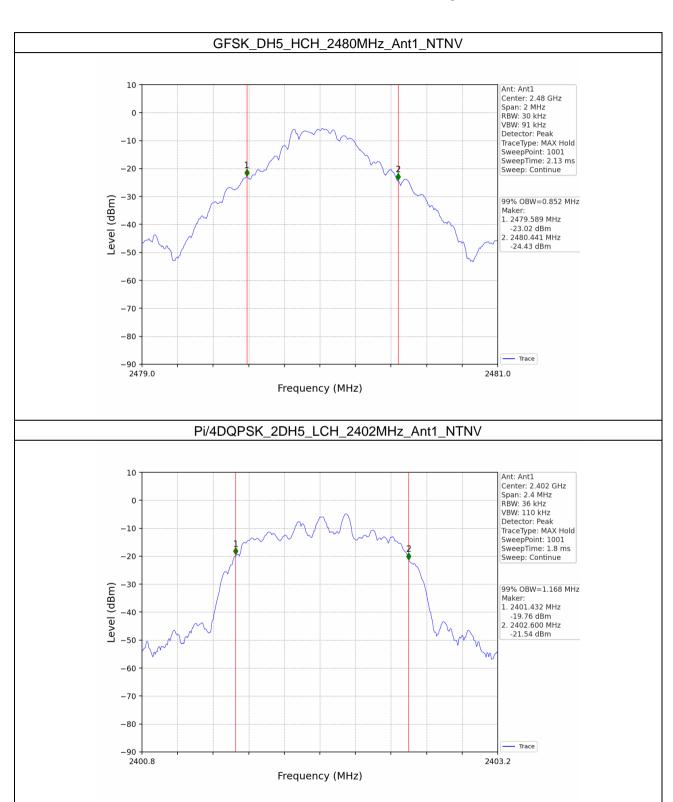
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Page: 60 of 111





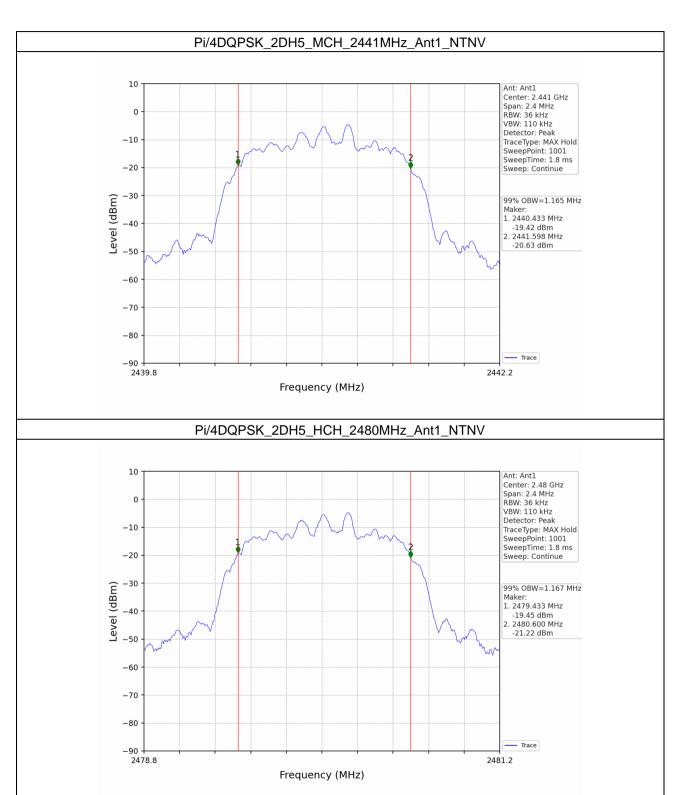
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Page: 61 of 111



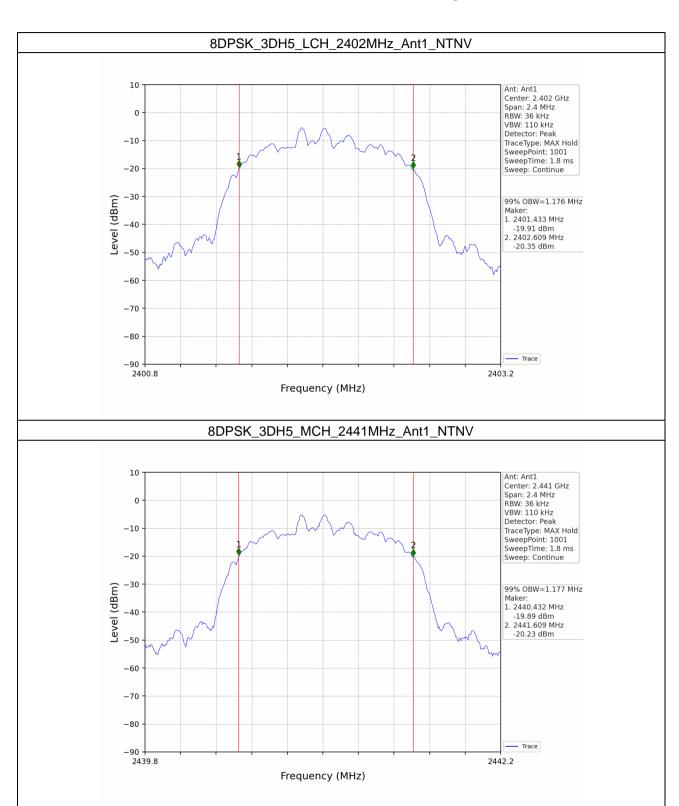


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Report No.: FYCR220300001402

Page: 62 of 111



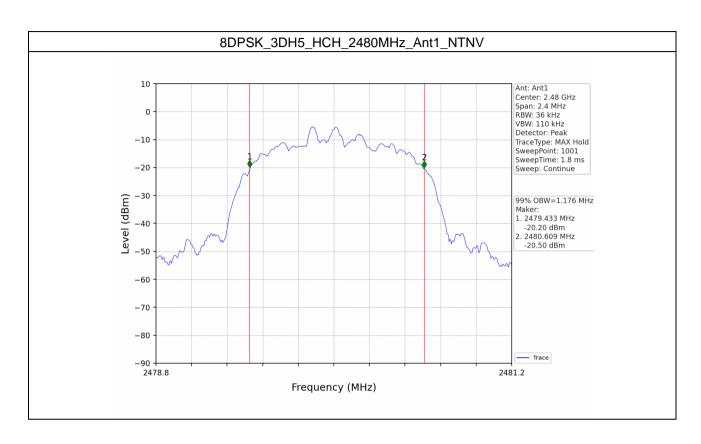


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Page: 63 of 111





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Report No.: FYCR220300001402

Page: 64 of 111

2.2 20dB BW

2.2.1 Test Result

Mode	TX	Frequency	Packet Type	Ant	20dB Bandwidth (MHz)	Verdict		
Mode	Type	(MHz)			Result	verdict		
GFSK	SISO	2402	DH5	1	0.952	Pass		
		2441	DH5	1	0.957	Pass		
		2480	DH5	1	0.953	Pass		
Pi/4DQPSK	SISO	2402	2DH5	1	1.282	Pass		
		2441	2DH5	1	1.282	Pass		
		2480	2DH5	1	1.286	Pass		
8DPSK	SISO			2402	3DH5	1	1.306	Pass
		2441	3DH5	1	1.306	Pass		
		2480	3DH5	1	1.307	Pass		



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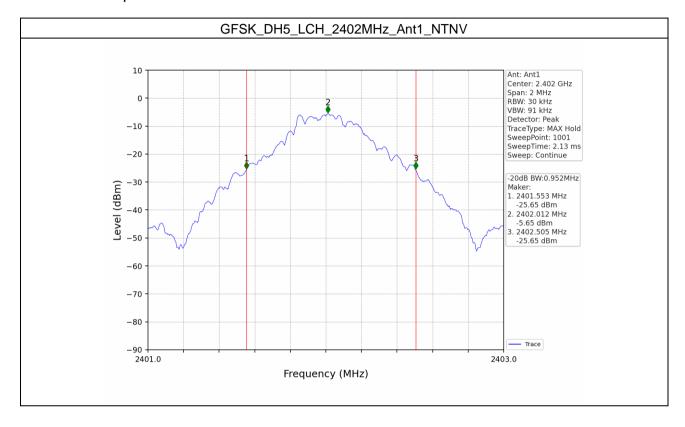
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Page: 65 of 111

2.2.2 Test Graph





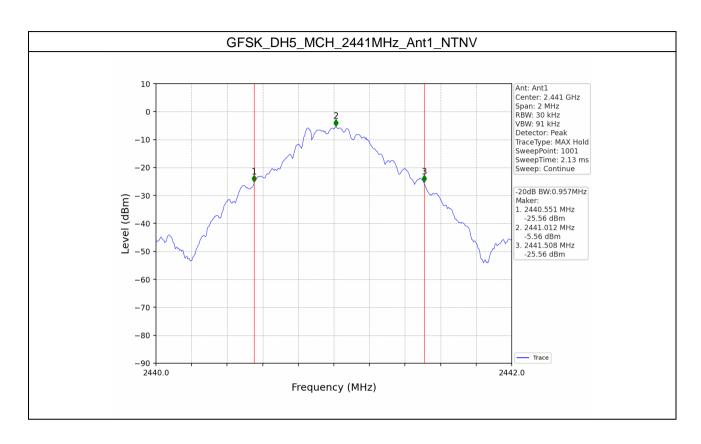
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Page: 66 of 111





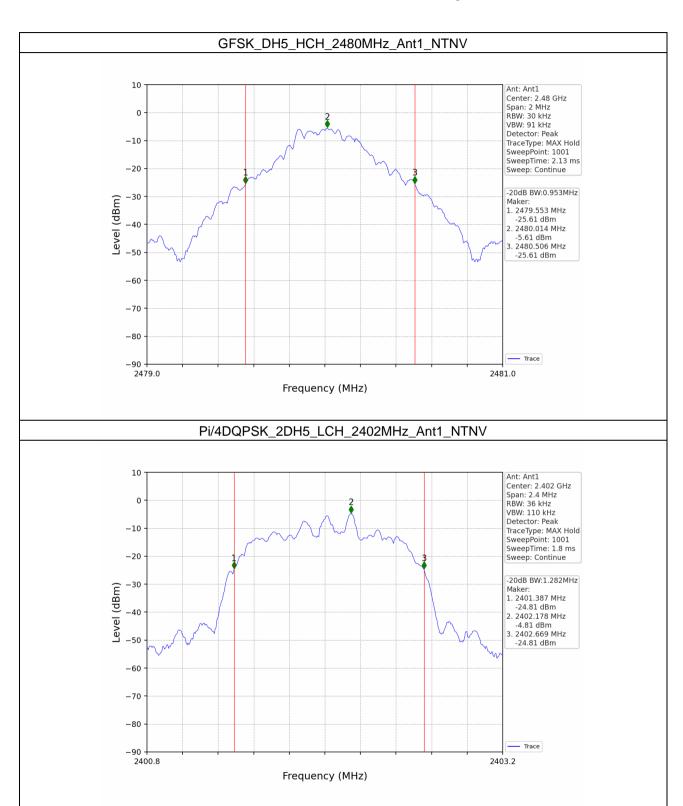
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Page: 67 of 111





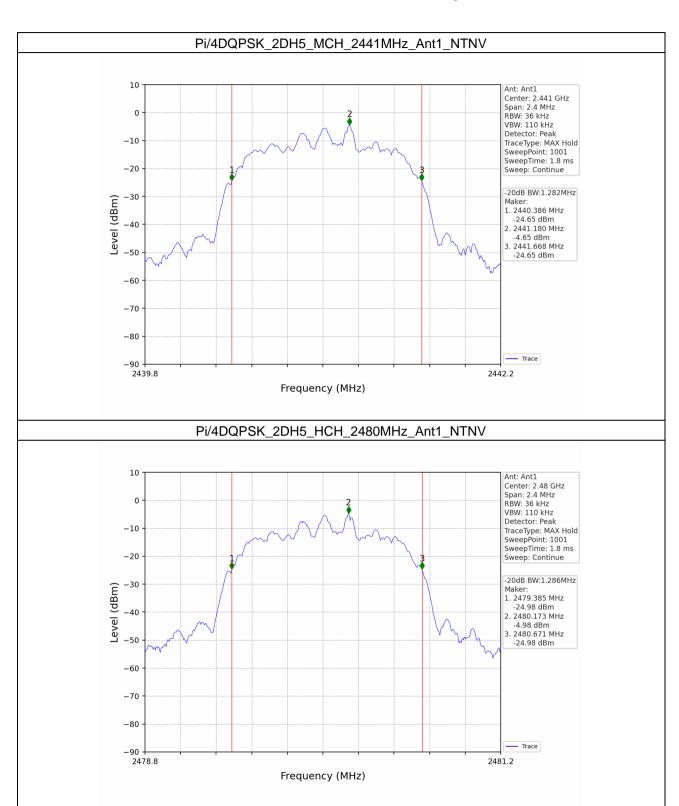
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Page: 68 of 111





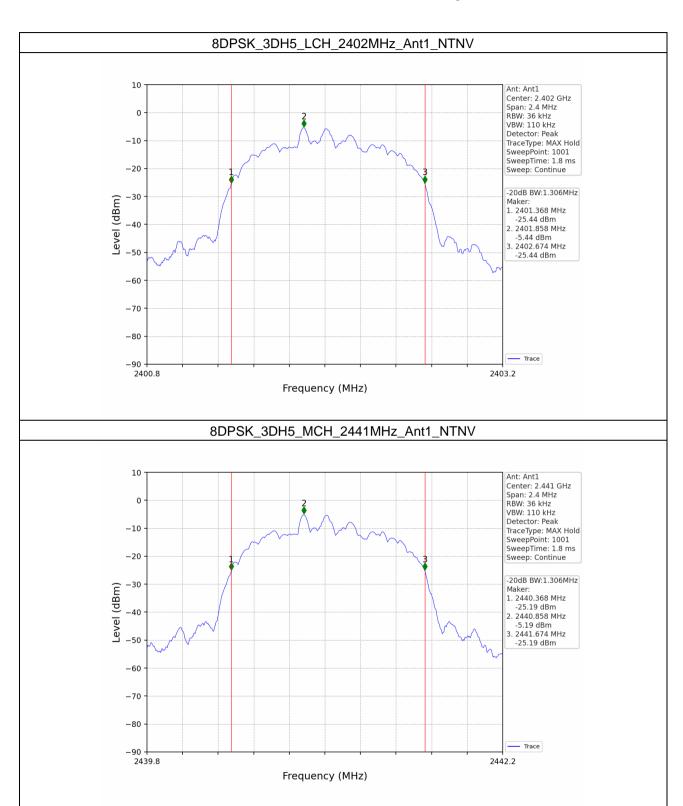
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Page: 69 of 111





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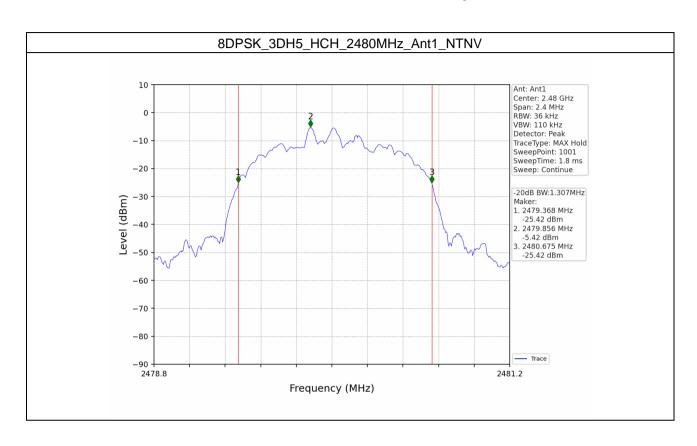
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Page: 70 of 111





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Report No.: FYCR220300001402

Page: 71 of 111

3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conduc	Verdict		
				Ant1	Limit	verdict	
	SISO	2402	DH5	-3.47	<=30	Pass	
GFSK		2441	DH5	-3.40	<=30	Pass	
		2480	DH5	-3.49	<=30	Pass	
Pi/4DQPSK	SISO	2402	2DH5	-2.59	<=20.97	Pass	
		2441	2DH5	-2.46	<=20.97	Pass	
		2480	2DH5	-2.57	<=20.97	Pass	
8DPSK	SISO		2402	3DH5	-2.24	<=20.97	Pass
		2441	3DH5	-2.01	<=20.97	Pass	
		2480	3DH5	-2.24	<=20.97	Pass	



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Page: 72 of 111

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	1.006	0.957	>=0.957	Pass		
Pi/4DQPSK	SISO	HOPP	2DH5	0.982	1.286	>=0.857	Pass		
8DPSK	SISO	HOPP	3DH5	1.030	1.307	>=0.871	Pass		



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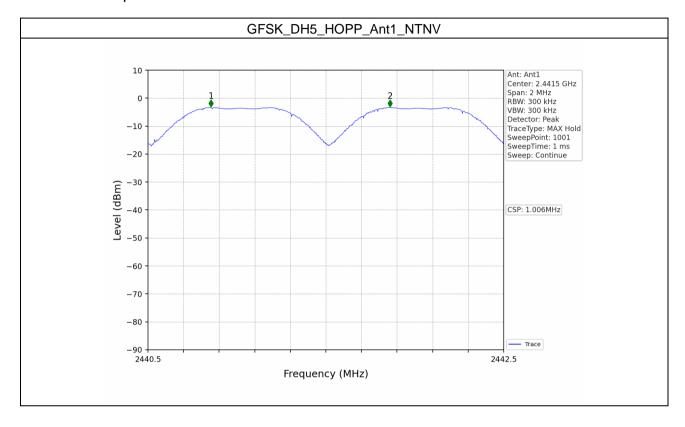
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Report No.: FYCR220300001402

Page: 73 of 111

4.1.2 Test Graph





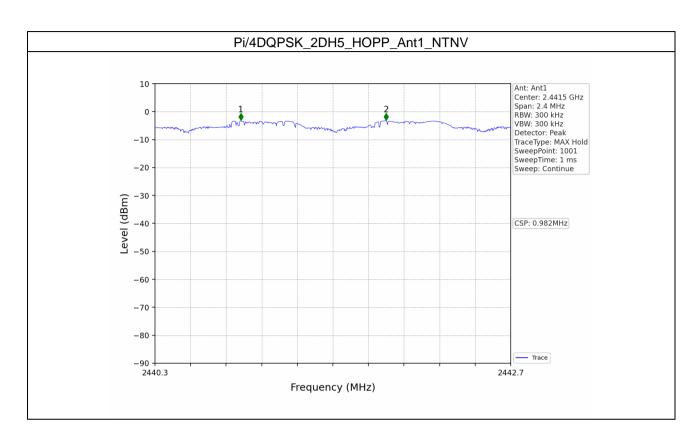
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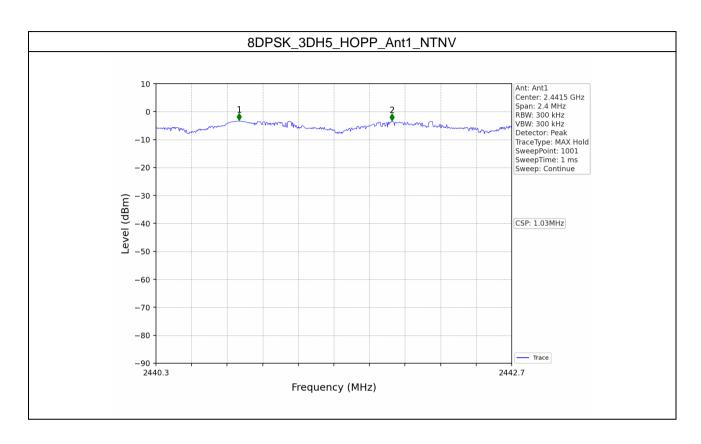
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Report No.: FYCR220300001402

Page: 76 of 111

5. Number of Hopping Frequencies

5.1 HoppNum

5.1.1 Test Result

Mada	TX Frequency		Packet	Num of Hoppir	\/oveliet	
Mode	Type	(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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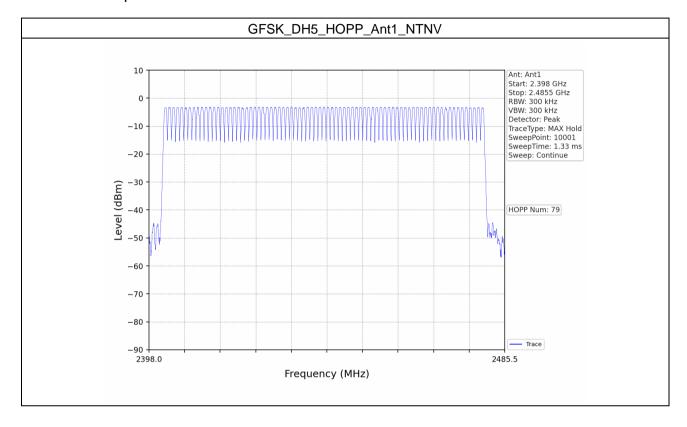
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Report No.: FYCR220300001402

Page: 77 of 111

5.1.2 Test Graph





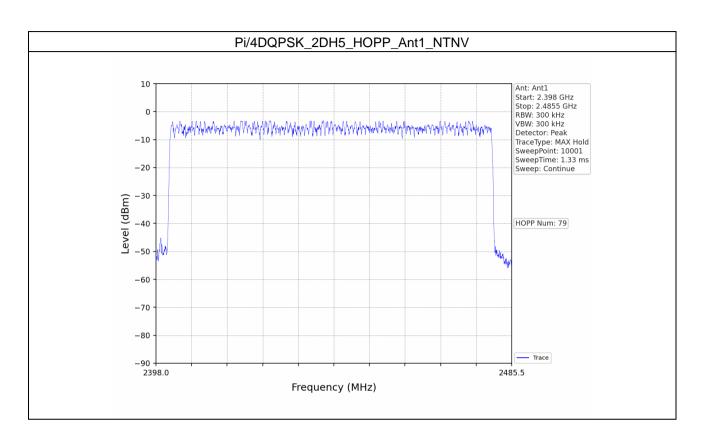
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Report No.: FYCR220300001402

Page: 78 of 111





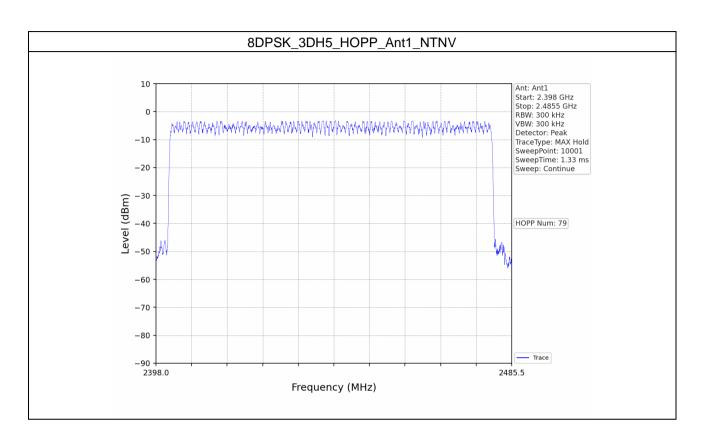
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Report No.: FYCR220300001402

Page: 79 of 111





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Report No.: FYCR220300001402

Page: 80 of 111

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
			DH1	0.378	31.600	320	120.960	<=400	Pass
GFSK	SISO	HOPP	DH3	1.632	31.600	148	241.536	<=400	Pass
			DH5	2.880	31.600	107	308.160	<=400	Pass
		SISO HOPP	2DH1	0.386	31.600	320	123.520	<=400	Pass
Pi/4DQPSK	SISO		2DH3	1.638	31.600	160	262.080	<=400	Pass
			2DH5	2.888	31.600	115	332.120	<=400	Pass
		SO HOPP	3DH1	0.388	31.600	320	124.160	<=400	Pass
8DPSK	SISO		3DH3	1.638	31.600	162	265.356	<=400	Pass
			3DH5	2.890	31.600	110	317.900	<=400	Pass



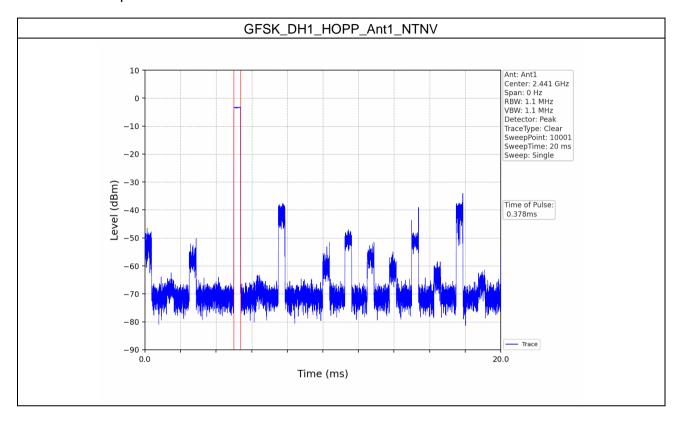
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Report No.: FYCR220300001402

Page: 81 of 111

6.1.2 Test Graph





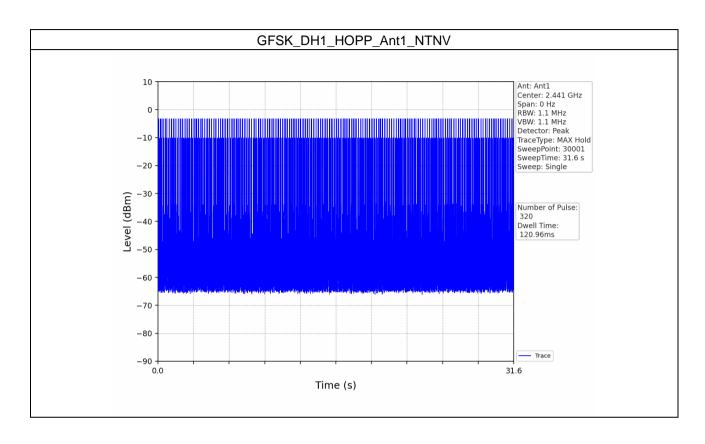
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Report No.: FYCR220300001402

Page: 82 of 111





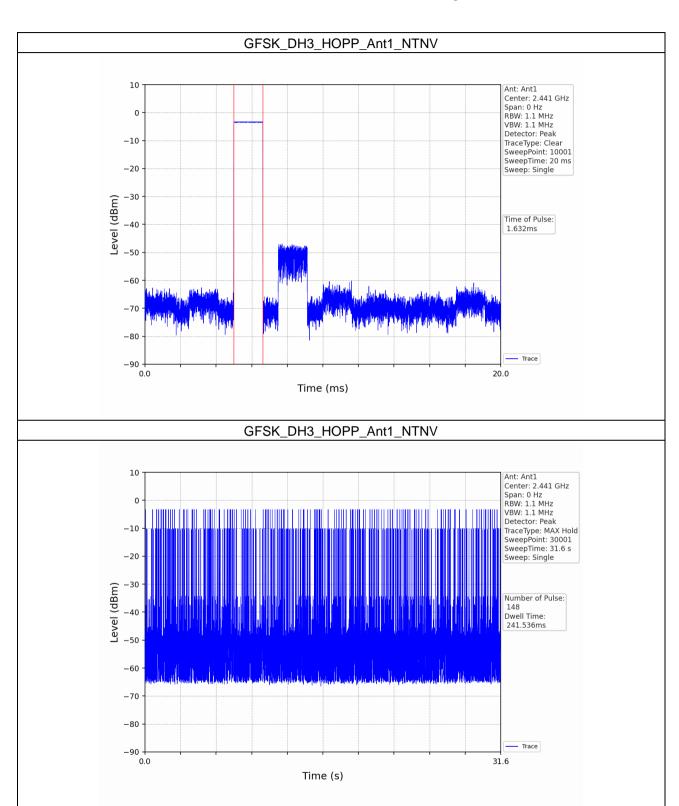
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Report No.: FYCR220300001402

Page: 83 of 111





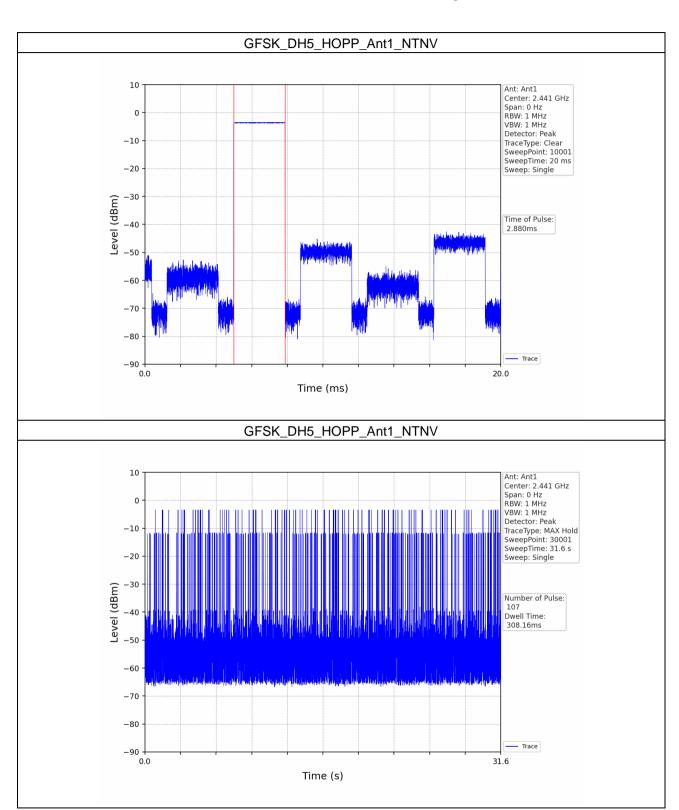
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Report No.: FYCR220300001402

Page: 84 of 111





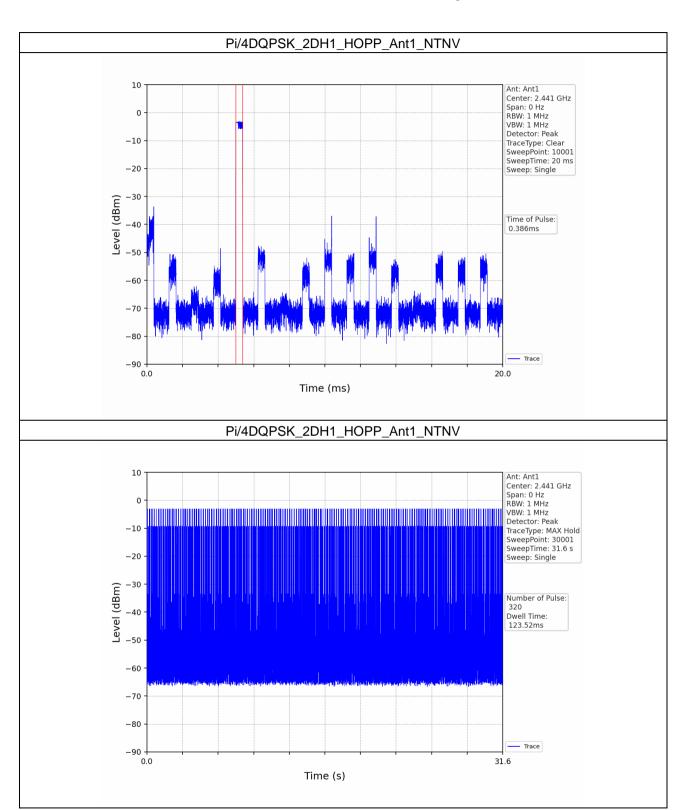
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Report No.: FYCR220300001402

Page: 85 of 111





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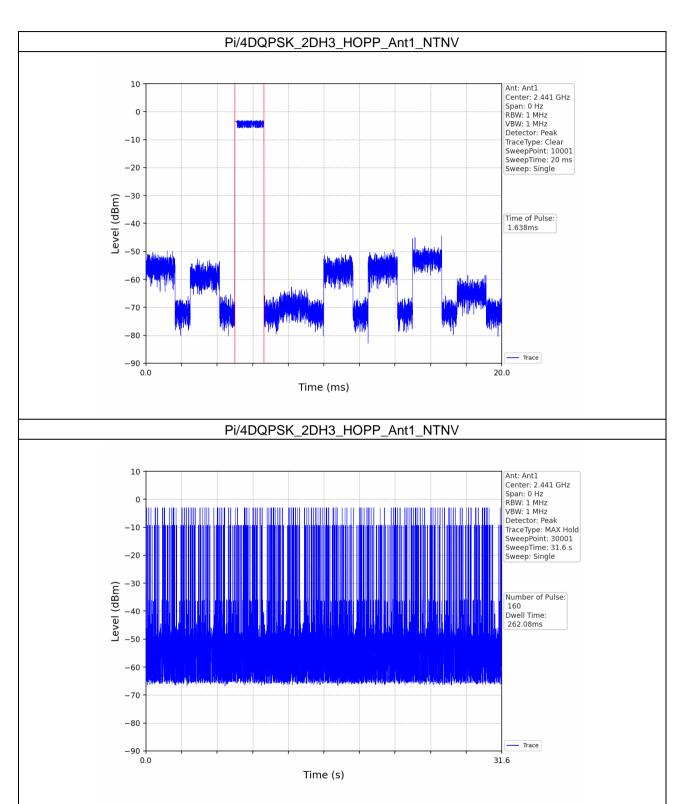
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Report No.: FYCR220300001402

Page: 86 of 111





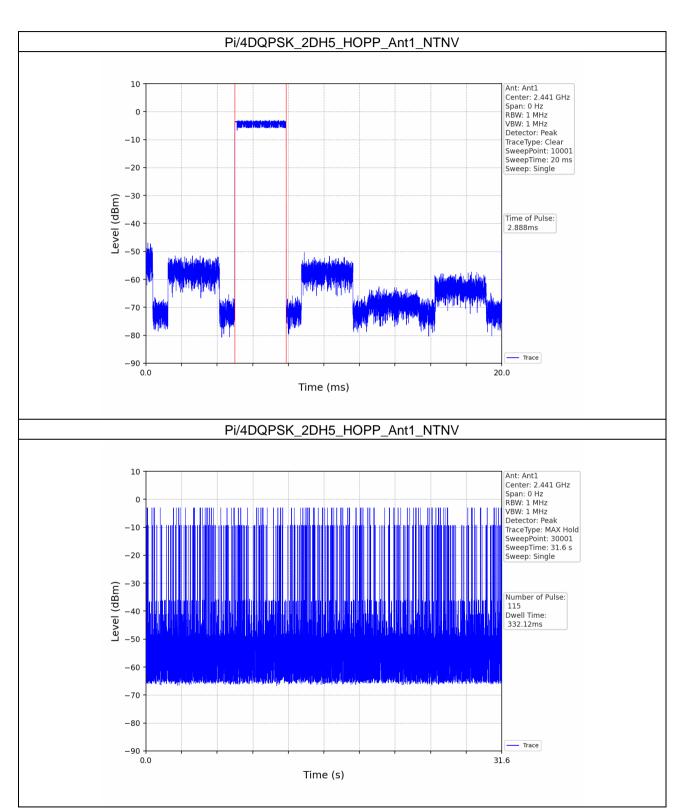
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Report No.: FYCR220300001402

Page: 87 of 111





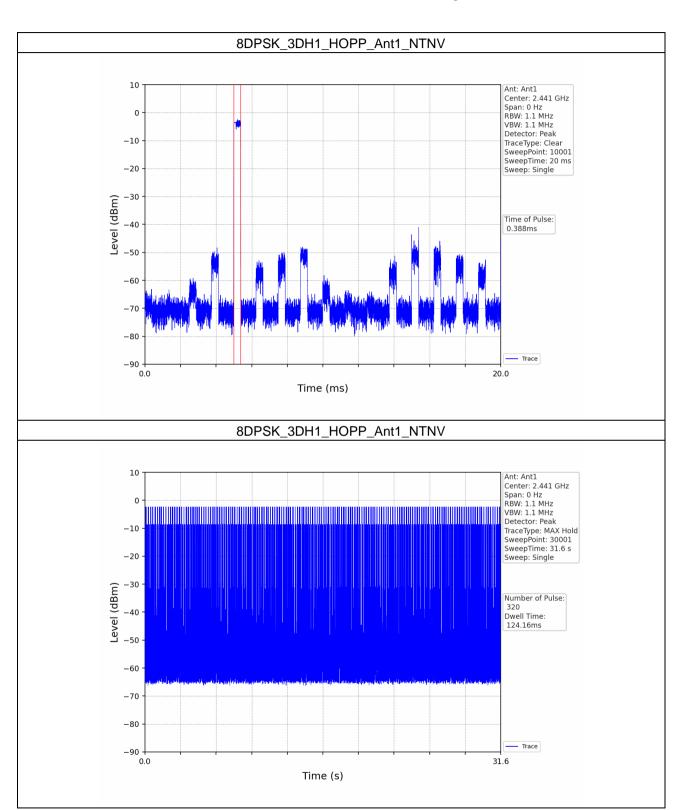
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Page: 88 of 111





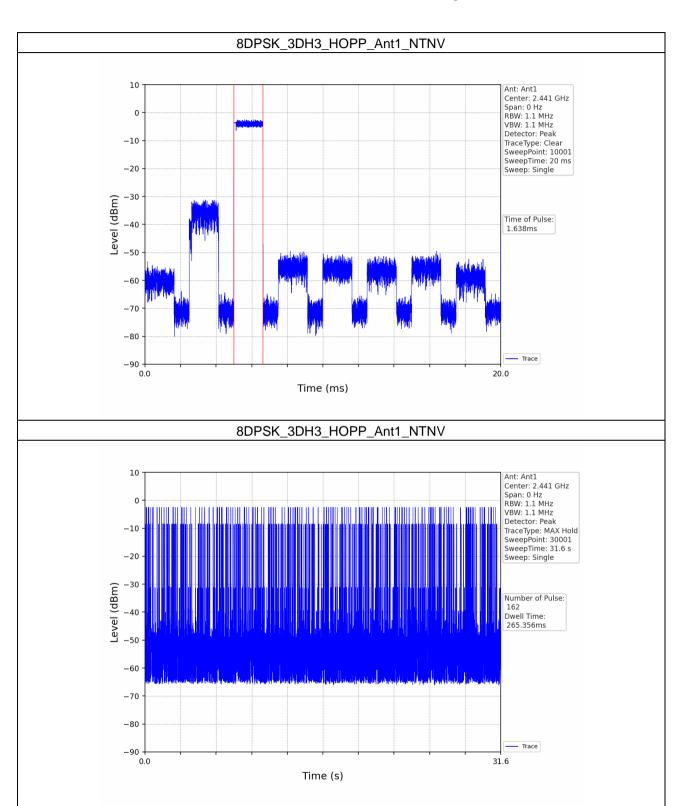
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Page: 89 of 111





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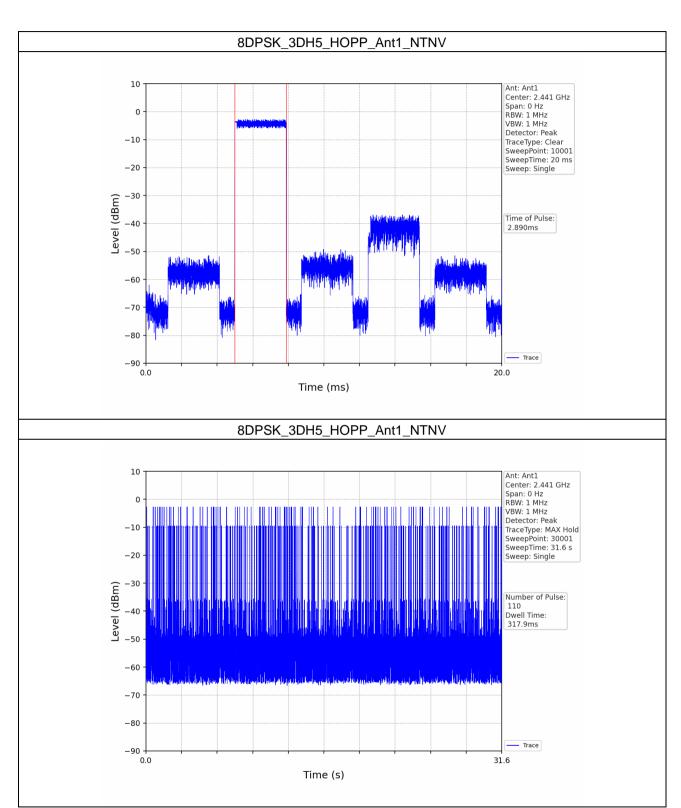
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Page: 90 of 111





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Report No.: FYCR220300001402

Page: 91 of 111

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)
	SISO	2402	DH5	1	-3.51
GFSK		2441	DH5	1	-3.55
		2480	DH5	1	-3.57
	SISO	2402	2DH5	1	-3.63
Pi/4DQPSK		2441	2DH5	1	-3.52
		2480	2DH5	1	-3.60
	SISO	2402	3DH5	1	-3.63
8DPSK		2441	3DH5	1	-3.45
		2480	3DH5	1	-3.63



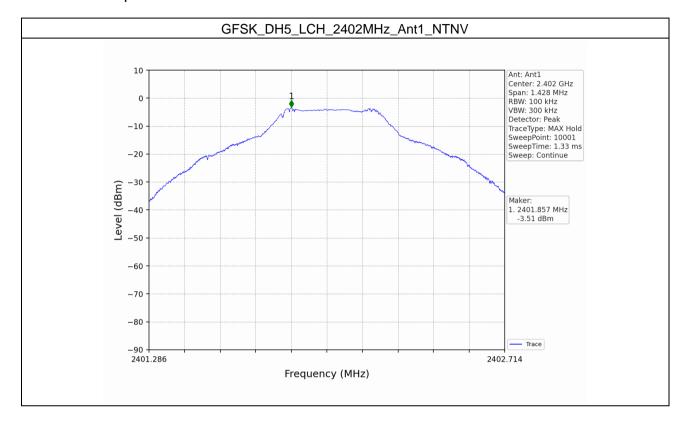
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Report No.: FYCR220300001402

Page: 92 of 111

7.1.2 Test Graph





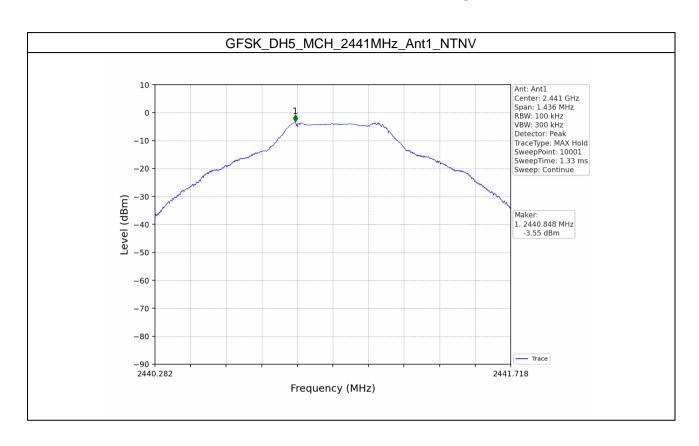
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Report No.: FYCR220300001402

Page: 93 of 111





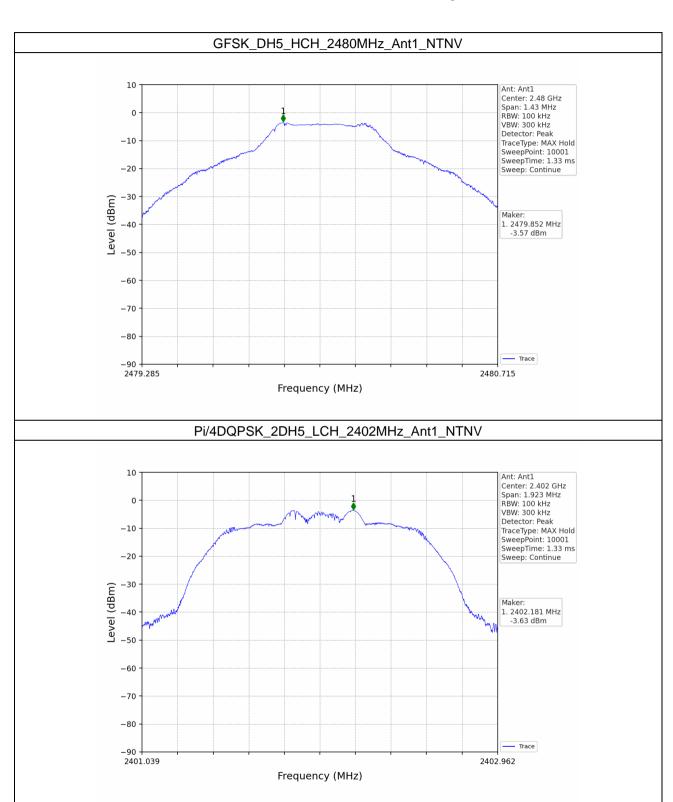
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Page: 94 of 111



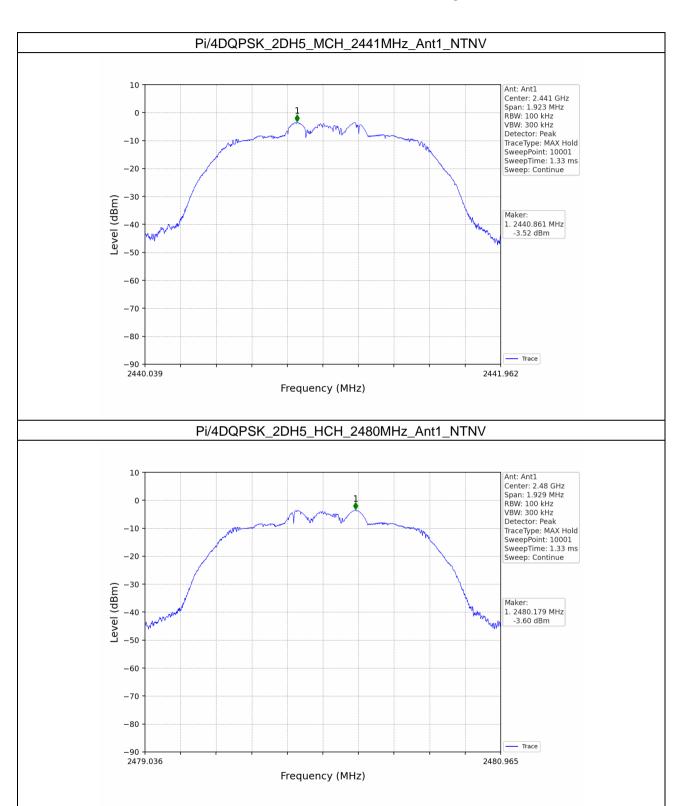


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Report No.: FYCR220300001402

Page: 95 of 111





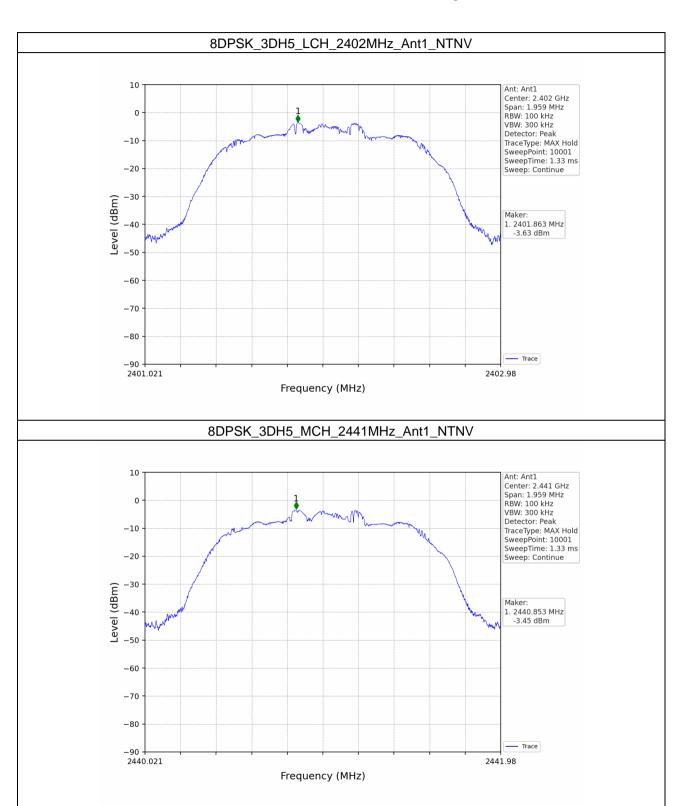
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Page: 96 of 111





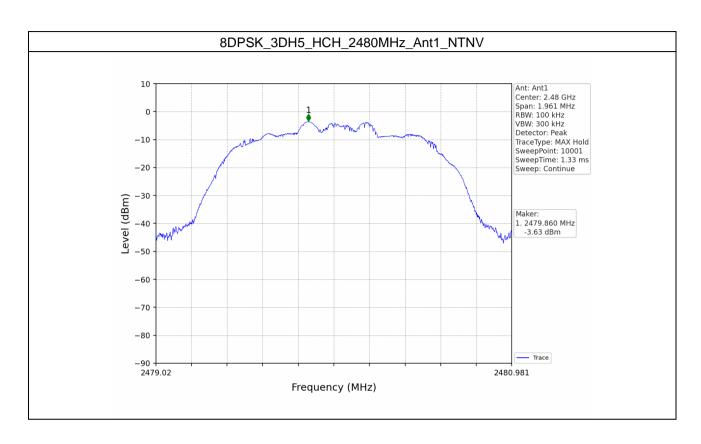
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Report No.: FYCR220300001402

Page: 98 of 111

7.2 CSE

7.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	DH5	1	-3.51	-23.51	Pass
GFSK	CICO	2441	DH5	1	-3.51	-23.51	Pass
	SISO	2480	DH5	1	-3.51	-23.51	Pass
		HOPP	DH5	1	-3.51	-23.51	Pass
	SISO	2402	2DH5	1	-3.52	-23.52	Pass
Pi/4DQPSK		2441	2DH5	1	-3.52	-23.52	Pass
PI/4DQPSK		2480	2DH5	1	-3.52	-23.52	Pass
		HOPP	2DH5	1	-3.52	-23.52	Pass
	SISO	2402	3DH5	1	-3.45	-23.45	Pass
ODDCK		2441	3DH5	1	-3.45	-23.45	Pass
8DPSK		2480	3DH5	1	-3.45	-23.45	Pass
		HOPP	3DH5	1	-3.45	-23.45	Pass



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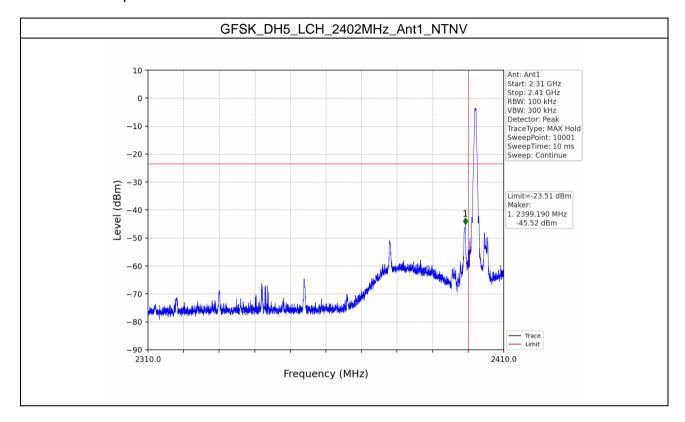
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Report No.: FYCR220300001402

Page: 99 of 111

7.2.2 Test Graph





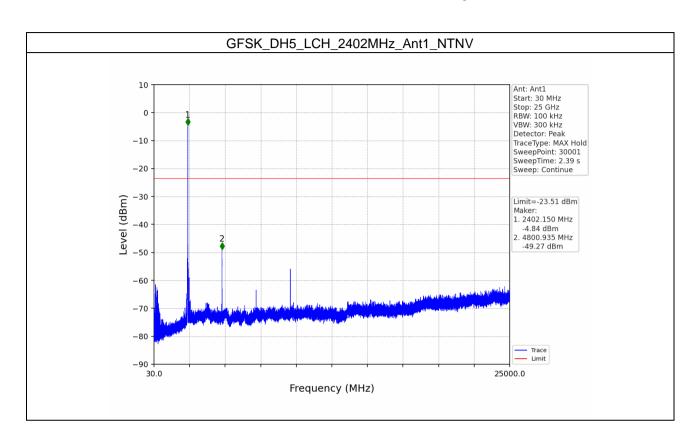
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Report No.: FYCR220300001402

Page: 100 of 111





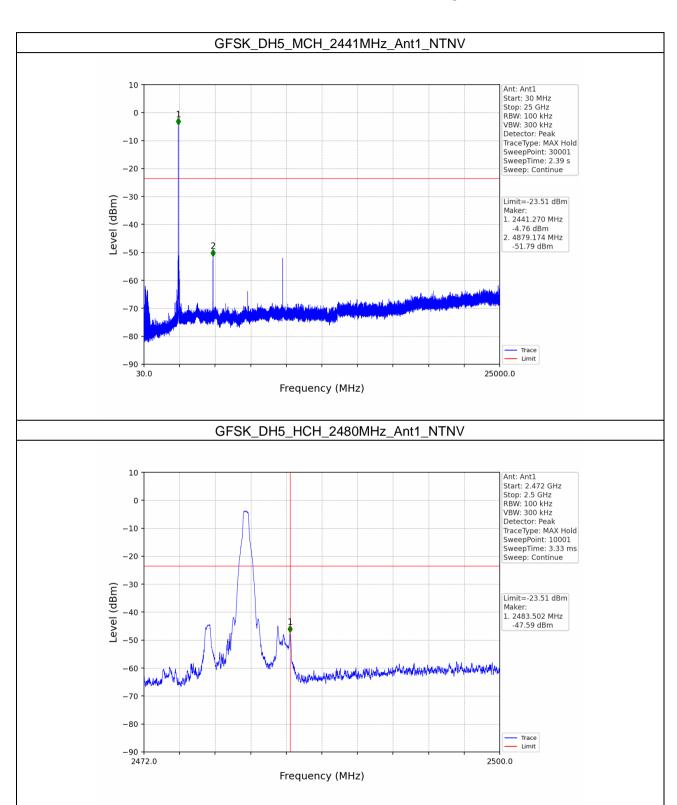
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Report No.: FYCR220300001402

Page: 101 of 111





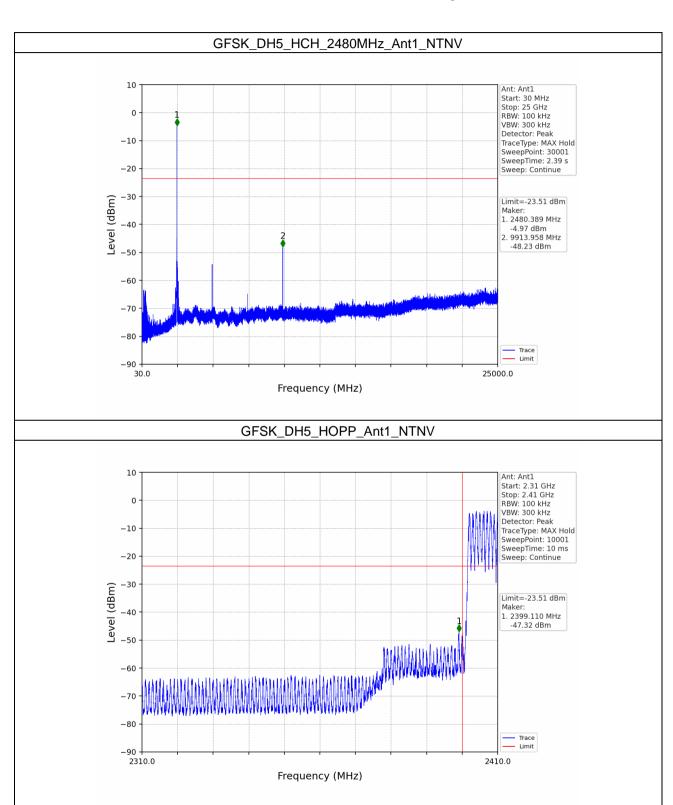
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Report No.: FYCR220300001402

Page: 102 of 111





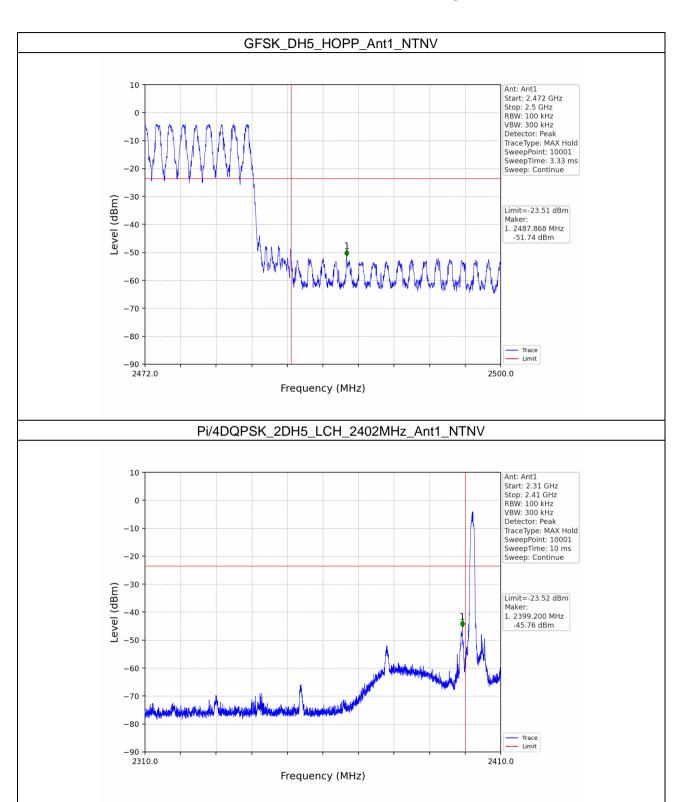
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Report No.: FYCR220300001402

Page: 103 of 111





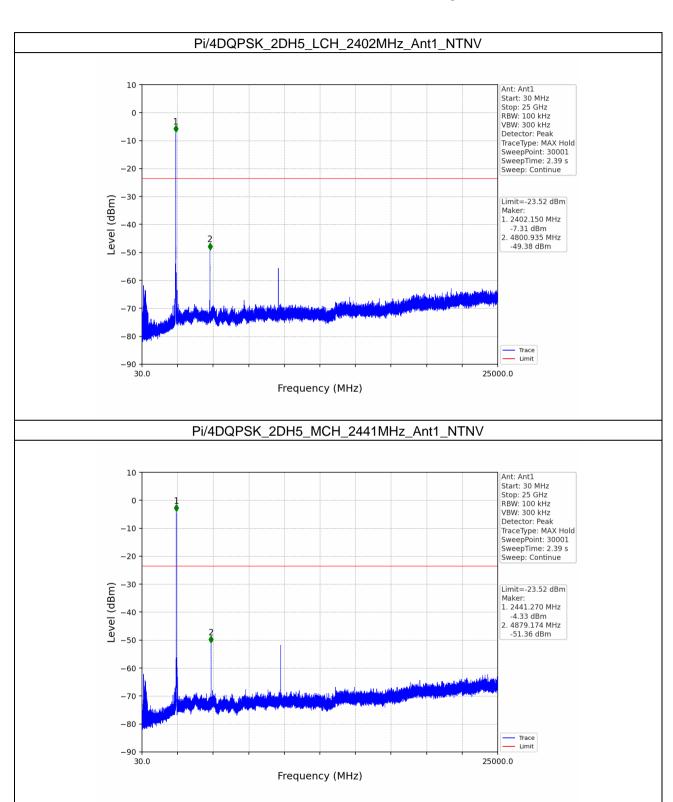
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Report No.: FYCR220300001402

Page: 104 of 111



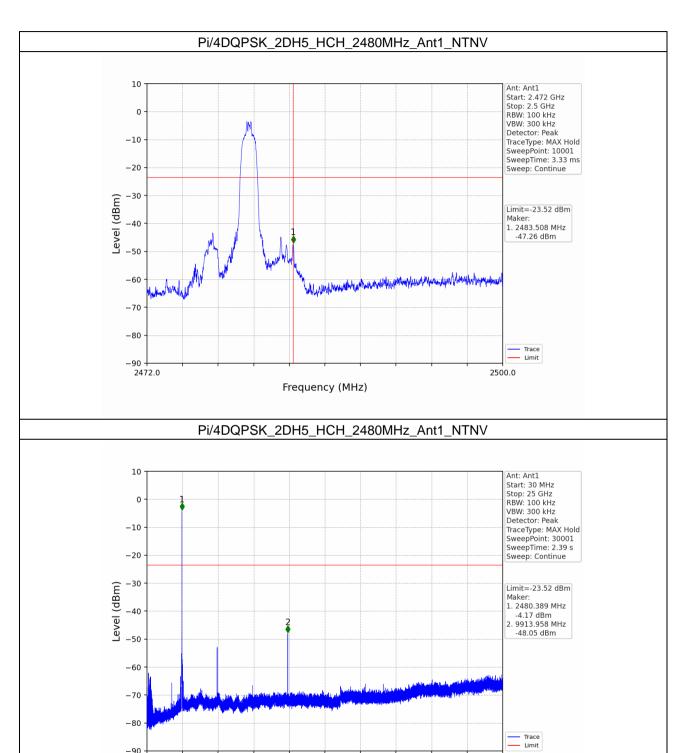


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Report No.: FYCR220300001402

Page: 105 of 111



Frequency (MHz)



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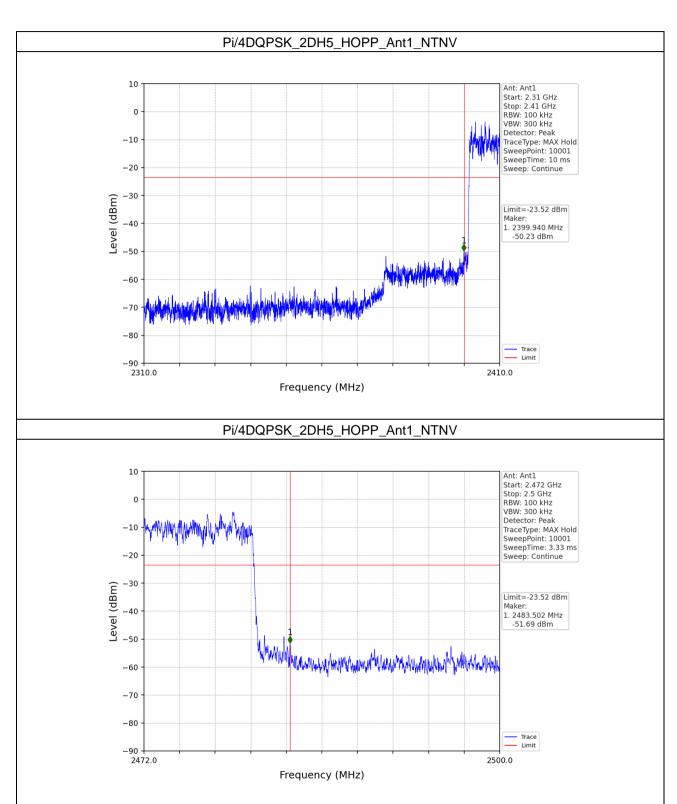
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Report No.: FYCR220300001402

Page: 106 of 111





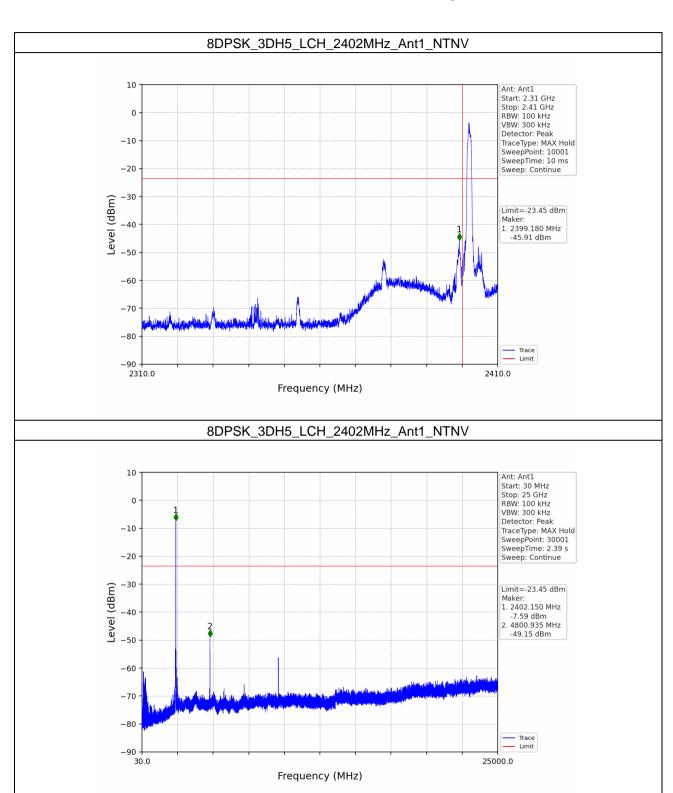
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Page: 107 of 111





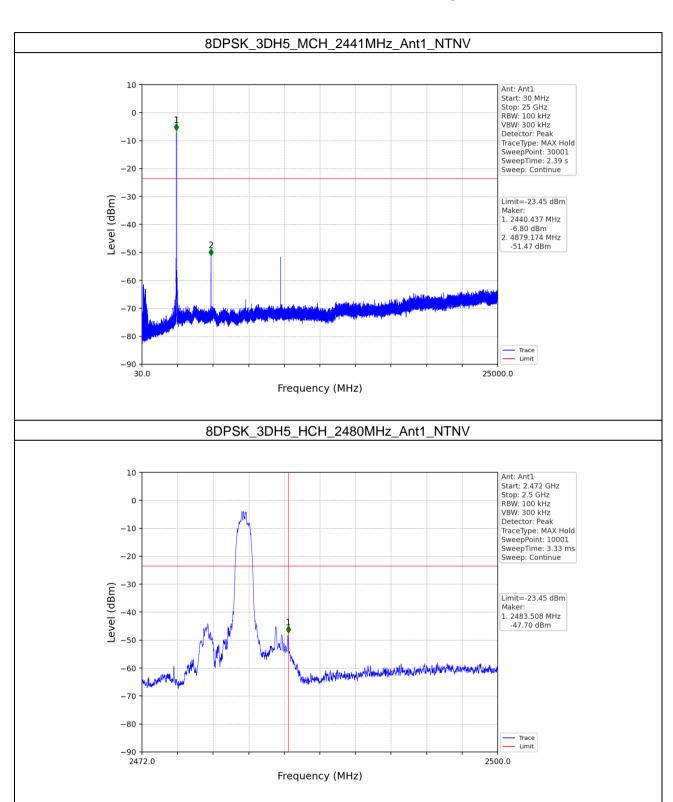
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Page: 108 of 111



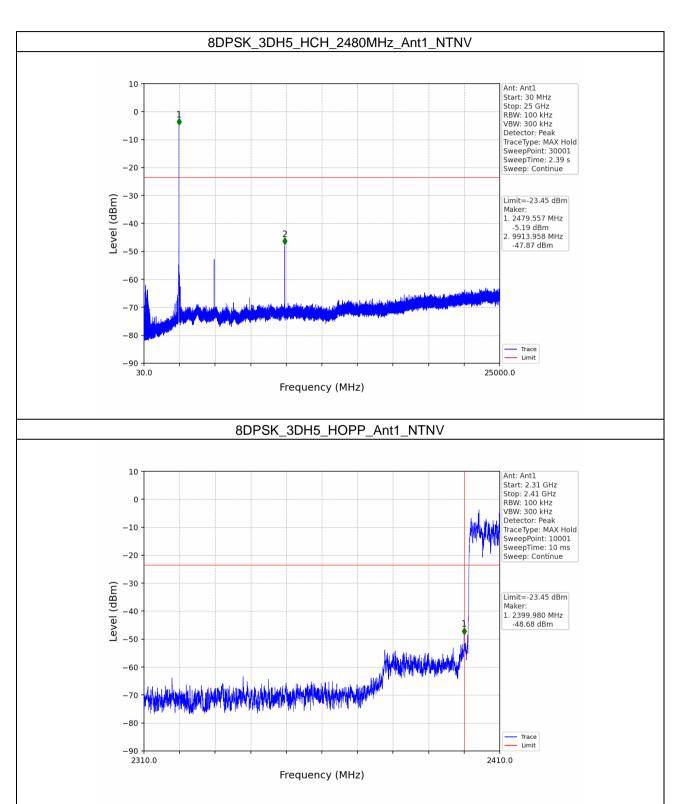


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Report No.: FYCR220300001402

Page: 109 of 111





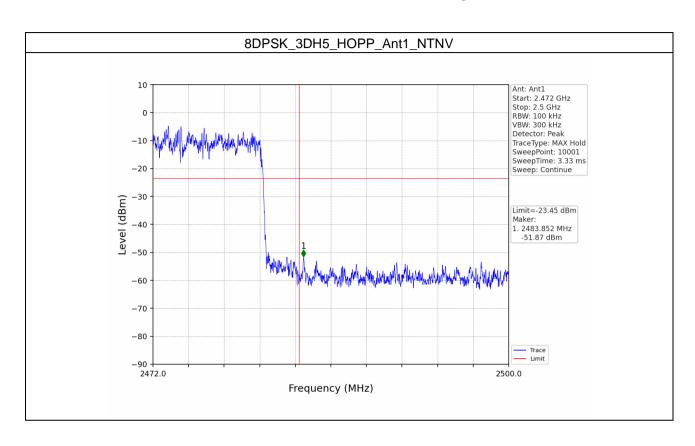
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Page: 110 of 111





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Report No.: FYCR220300001402

Page: 111 of 111

8. Form731

8.1 Form731

8.1.1 Test Result

Lower Freq	Lower Freq High Freq		MAX Power (dBm)		
2402	2480	0.0006	-2.01		

- End of the Report -



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