

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200494505

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TEST REPORT

Application No.: SZCR2412004945WM

Applicant: vivo Mobile Communication Co., Ltd.

Address of Applicant: No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

Manufacturer: vivo Mobile Communication Co., Ltd.

Address of Manufacturer: No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

Equipment Under Test (EUT):

EUT Name: Mobile phone

Model No.: V2440
Trade Mark: vivo

FCC ID: 2AUCY-V2440

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

Date of Receipt: 2024-12-30

Date of Test: 2025-01-09 to 2025-02-06

Date of Issue: 2025-02-07

Test Result: Pass*

Keny Xu EMC Laboratory Manager



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



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	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2025-02-07		Original				

Authorized for issue by:		
	Sherlock Fans	
	Sherlock Fang/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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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			
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,	ANSI C63.10 (2013) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(1)	Pass			
20dB Bandwidth	Subpart C 15.247	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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General Information

4.1 Details of E.U.T.

Dotaile of Eletin	
EUT Description:	Mobile phone
Model No.:	V2440
Trade Mark:	vivo
Hardware Version:	MP_0.1
Software Version:	PD2447EF_EX_A_15.0.2.10.W30
Power Supply:	DC 3.91V from internal rechargeable battery which can be charged by AC/DC adapter
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 1 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 78.
Bluetooth version:	Bluetooth V5.4
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Antenna Type:	PIFA Antenna
	0.92dBi(Ant22)
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.
RF Cable:	2000MHz ~ 3000MHz (1.1dB)
Remark:	•

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Environment Parameter

Environment Parameter		Selected Values During Tests		
Relative Humidity		Ambient		
Value		Temperatu	ıre(°C)	Voltage(V)
NTNV		22~24.5		3.91
Note:				
NV:Normal Voltage	LV:Low Extreme Test Vo	Itage	HV:High Extren	ne Test Voltage
NT:Normal Temperature LT:Low Extreme Test Ter		mperature HT:High Extreme Test Temperatu		ne Test Temperature



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4.3 **Description of Support Units**

Description	on Manufacturer Mo		Serial No.				
The EUT has been tested as an independent unit.							

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%
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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4.5 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.

4.6 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.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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Equipment List 5

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	ESR	SZ-WRG-M-047	2025-01-08	2026-01-07		
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05		
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14		
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		
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-01-07	2026-01-06		
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025-01-07	2026-01-06		
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20		
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05		
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23		

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	2024-08-14	2025-08-13					
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	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	2024-07-06	2025-07-05					



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Radiated Spurious Emis	Radiated Spurious Emissions Above 1GHz									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date					
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-01-07	2026-01-06					
Low Noise Amplifier 1G- 18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-01-07	2026-01-06					
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025-01-08	2026-01-07					
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20					
SHF-EHF Horn 15GHz- 40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24					
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A					
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05					
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23					

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	2024-08-14	2025-08-13
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	2024-07-06	2025-07-05
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	2024-07-24	2025-07-23					
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23					
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 a PIFA Antenna, and the connection port is integrated inside the product, and the antenna cannot be replaced.

The best-case gain of the antenna is 0.92dBi(Ant22).*

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

6.2.1 Test Requirement:

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

6.2.2 Conclusion

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- > Number of shift register stages: 9
- > Length of pseudo-random sequence: 29 -1 = 511 bits
- > Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

Each frequency used equally on the average by each transmitter.

According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h):



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

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



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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:

Francisco of amicaian/MII-	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 30)MHz				

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 45.5 % 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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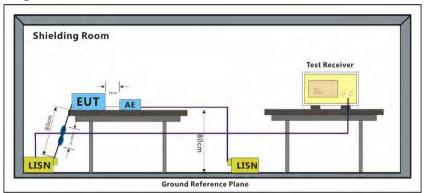
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7.1.3 Test Setup Diagram



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/50uH + 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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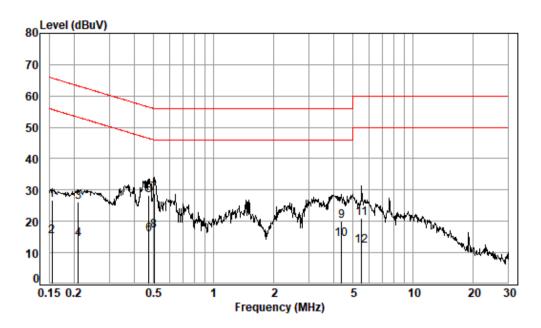


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Test Mode: 01; Line: Live line



Site : Shielding Room

Condition: Line Job No. : 04945WM

Test mode: 01

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1548	0.06	10.19	16.46	26.71	65.74	-39.03	QP
2	0.1548	0.06	10.19	5.04	15.29	55.74	-40.45	Average
3	0.2106	0.06	10.09	16.09	26.24	63.18	-36.94	QP
4	0.2106	0.06	10.09	4.02	14.17	53.18	-39.01	Average
5	0.4736	0.08	9.57	18.65	28.30	56.45	-28.15	QP
6	0.4736	0.08	9.57	6.05	15.70	46.45	-30.75	Average
7 *	0.5047	0.08	9.54	19.41	29.03	56.00	-26.97	QP
8 *	0.5047	0.08	9.54	7.50	17.12	46.00	-28.88	Average
9	4.3606	0.12	9.66	10.44	20.22	56.00	-35.78	QP
10	4.3606	0.12	9.66	4.55	14.33	46.00	-31.67	Average
11	5.5054	0.13	9.67	11.12	20.92	60.00	-39.08	QP
12	5.5054	0.13	9.67	2.34	12.14	50.00	-37.86	Average



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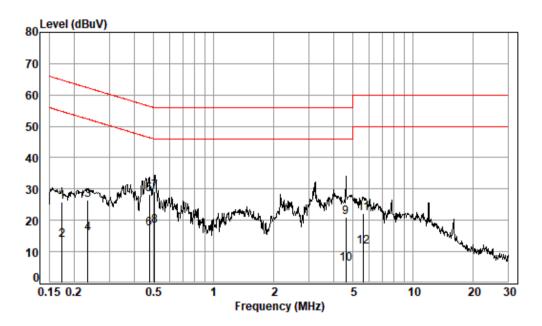


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Test Mode: 01; Line: Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 04945WM

Test mode: 01

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1740	0.06	10.11	15.57	25.74	64.77	-39.03	QP
2	0.1740	0.06	10.11	3.47	13.64	54.77	-41.13	Average
3	0.2341	0.06	9.96	16.30	26.32	62.30	-35.98	QP
4	0.2341	0.06	9.96	5.87	15.89	52.30	-36.41	Average
5	0.4761	0.08	9.72	18.59	28.39	56.41	-28.02	QP
6	0.4761	0.08	9.72	7.43	17.23	46.41	-29.18	Average
7 *	0.5074	0.08	9.71	19.38	29.17	56.00	-26.83	QP
8 *	0.5074	0.08	9.71	8.41	18.20	46.00	-27.80	Average
9	4.5979	0.12	9.56	11.28	20.96	56.00	-35.04	QP
10	4.5979	0.12	9.56	-3.52	6.16	46.00	-39.84	Average
11	5.6234	0.13	9.59	12.61	22.33	60.00	-37.67	QP
12	5.6234	0.13	9.59	1.94	11.66	50.00	-38.34	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: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

7.2.2 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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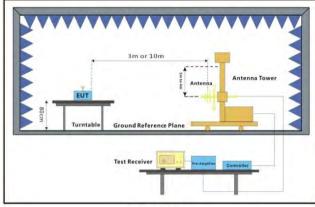


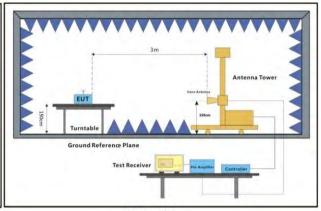
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7.2.3 Test Setup Diagram





Above 1GHz 30MHz-1GHz



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7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.

Remark 5: For average measurement: use duty cycle correction factor method per 15.35(c).

Average Emission Level = Peak Emission Level+20*log(Duty cycle)

Duty cycle=On time /100 milliseconds



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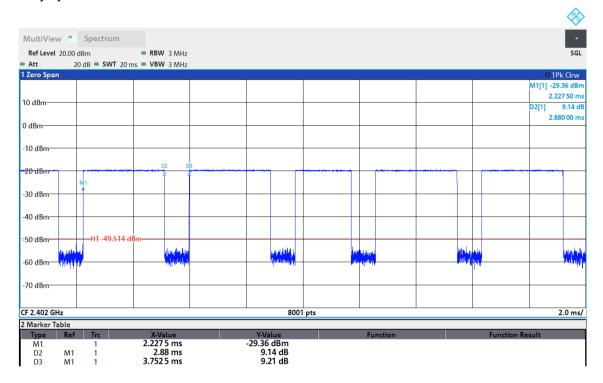
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Duty cycle:



Note: The average levels were calculated from the peak level corrected with duty cycle correction factor (-24.79dB).



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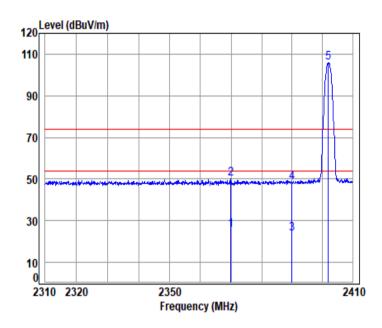


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BT_DH5_TX_CH_00_Horizontal



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 2402 Band edge

: BT DH5

			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	av	2369.892	6.81	27.38	31.54	22.79	25.44	54.00	-28.56	Average
2		2369.892	6.81	27.38	31.54	47.58	50.23	74.00	-23.77	peak
3		2390.000	6.82	27.46	31.54	20.95	23.69	54.00	-30.31	Average
4		2390.000	6.82	27.46	31.54	45.74	48.48	74.00	-25.52	peak
5	pp	2402.000	6.84	27.50	31.54	103.02	105.82	74.00	31.82	peak



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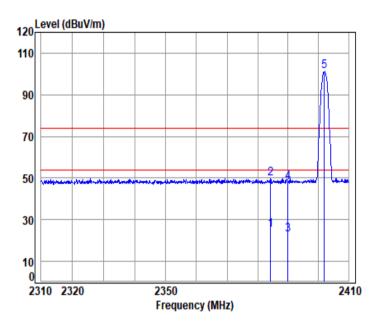


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BT_DH5_TX_CH_00_Vertical



Condition: 3m VERTICAL Job No : 04945WM

Mode : 2402 Band edge

: BT DH5

			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	av	2384.298	6.82	27.44	31.54	22.16	24.88	54.00	-29.12	Average
2		2384.298	6.82	27.44	31.54	46.95	49.67	74.00	-24.33	peak
3		2390.000	6.82	27.46	31.54	20.24	22.98	54.00	-31.02	Average
4		2390.000	6.82	27.46	31.54	45.03	47.77	74.00	-26.23	peak
5	pp	2402,000	6.84	27.50	31.54	98.30	101.10	74.00	27.10	peak



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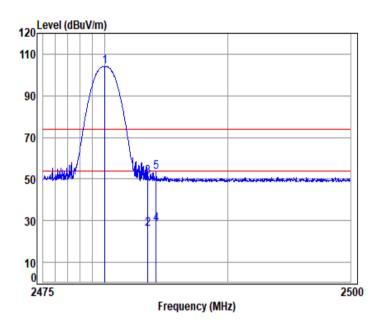


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BT_DH5_TX_CH_78_Horizontal



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 2480 Band edge

: BT DH5

Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
 2480.000 2483.500								
2483.500								_
2484.171								_



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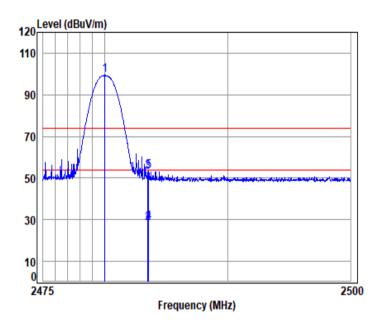


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BT_DH5_TX_CH_78_Vertical



Condition: 3m VERTICAL Job No : 04945WM

Mode : 2480 Band edge

: BT DH5

		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 p	2480.000	7.37	27.78	31.55	95.70	99.30	74.00	25.30	Peak
2	2483.497	7.40	27.80	31.55	24.70	28.35	54.00	-25.65	Average
3	2483.497	7.40	27.80	31.55	49.49	53.14	74.00	-20.86	Peak
4 a	v 2483.572	7.40	27.80	31.55	24.95	28.60	54.00	-25.40	Average
5	2483.572	7.40	27.80	31.55	49.74	53.39	74.00	-20.61	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: 21.2 °C Humidity: 46.6 % RH Atmospheric Pressure: 1020 mbar

7.3.2 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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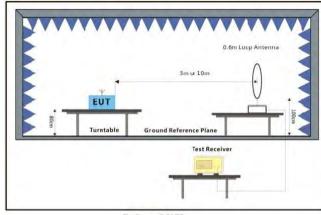
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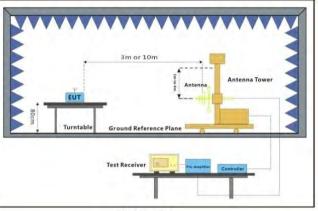


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7.3.3 Test Setup Diagram





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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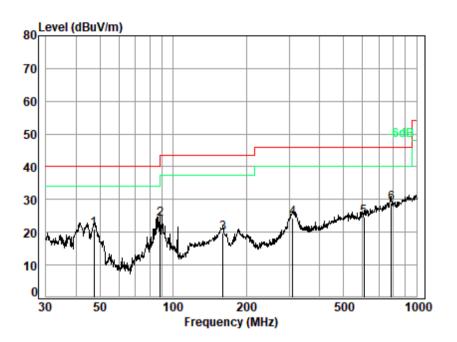


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Test Mode: 01; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 04945WM

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	47.326	13.53	0.84	27.74	34.47	21.10	40.00	-18.90	QP
2	88.342	11.52	1.15	27.62	38.89	23.94	43.50	-19.56	QP
3	160.346	13.56	1.59	27.34	32.10	19.91	43.50	-23.59	QP
4	309.998	18.41	2.24	26.79	30.56	24.42	46.00	-21.58	QP
5	607.787	24.61	3.27	27.95	24.84	24.77	46.00	-21.23	QP
6 a	787.851	27.15	3.82	27.51	25.55	29.01	46.00	-16.99	OP



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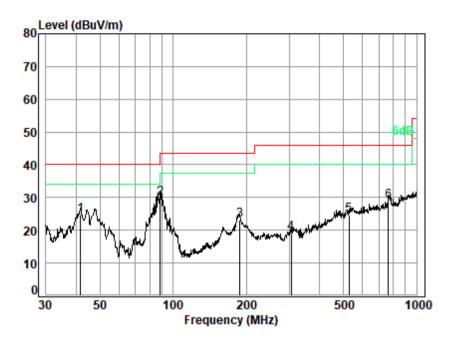


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Test Mode: 01; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 04945WM

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	41.567	15.62	0.79	27.76	36.06	24.71	40.00	-15.29	QP
2 q	88.342	11.52	1.15	27.62	44.78	29.83	43.50	-13.67	QP
3	187.753	14.30	1.71	27.22	34.22	23.01	43.50	-20.49	QP
4	305.680	18.42	2.22	26.77	25.27	19.14	46.00	-26.86	QP
5	528.246	23.26	3.02	27.68	25.92	24.52	46.00	-21.48	QP
6	766.057	26.59	3.76	27.56	26.08	28.87	46.00	-17.13	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

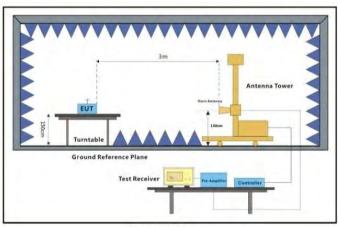
Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 24.5 °C Humidity: 50.8 % RH

7.4.2 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.									

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.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.



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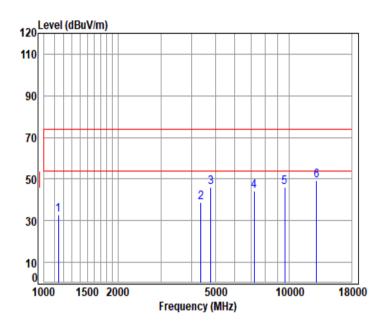


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BT_DH5_TX_CH_00_Horizontal



Condition: 3m HORIZONTAL

Job No : 04945WM Mode : 2402 TX RSE

: BT DH5

Ant Preamp Read Limit 0ver Loss Factor Factor Line Limit Remark Level Level MHz dBuV dBuV/m dBuV/m dB dB/m dB 7.14 25.42 54.70 55.03 32.89 74.00 -41.11 peak 1145.507 2 4367.058 8.51 31.27 55.86 54.77 38.69 74.00 -35.31 peak 3 4804.000 8.90 31.92 56.16 61.31 45.97 74.00 -28.03 peak 4 7206.000 11.10 36.60 56.54 52.99 74.00 -29.85 peak 44.15 12.38 38.78 54.45 49.58 46.29 74.00 -27.71 peak 9608.000 6 pp12947.070 15.25 40.35 54.46 48.19 49.33 74.00 -24.67 peak



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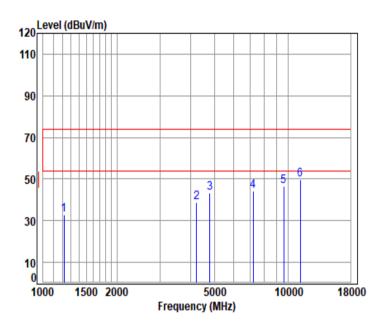


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BT_DH5_TX_CH_00_Vertical



Condition: 3m VERTICAL Job No : 04945WM Mode : 2402 TX RSE

: BT DH5

		0110							
		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	1217.190	7.18	25.30	54.70	54.96	32.74	74.00	-41.26	peak
2	4230.396	8.49	30.98	55.76	55.03	38.74	74.00	-35.26	peak
3	4804.000	8.90	31.92	56.16	58.71	43.37	74.00	-30.63	peak
4	7206.000	11.10	36.60	56.54	52.99	44.15	74.00	-29.85	peak
5	9608.000	12.38	38.78	54.45	49.94	46.65	74.00	-27.35	peak
6	pp11237.330	14.30	39.64	53.57	49.42	49.79	74.00	-24.21	peak



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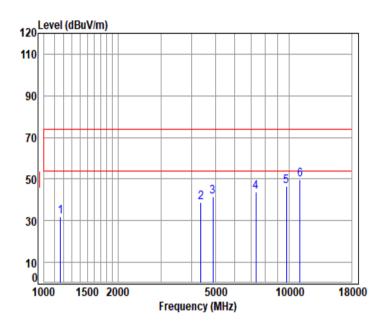


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BT_DH5_TX_CH_39_Horizontal



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 2441 TX RSE

: BT DH5

	. 01	כווט							
		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	1165.546	7.16	25.37	54.70	54.31	32.14	74.00	-41.86	peak
2	4367.058	8.51	31.27	55.86	54.88	38.80	74.00	-35.20	peak
3	4882.000	8.98	32.16	56.22	56.82	41.74	74.00	-32.26	peak
4	7323.000	11.12	36.75	56.44	52.56	43.99	74.00	-30.01	peak
5	9764.000	12.86	38.60	54.31	49.31	46.46	74.00	-27.54	peak
6	pp11076.100	14.14	39.48	53.52	49.64	49.74	74.00	-24.26	peak



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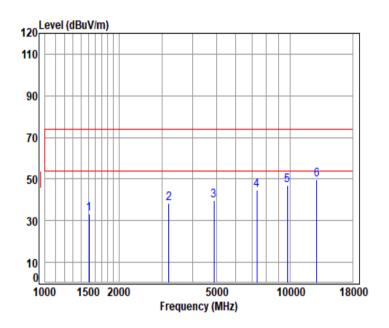


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BT_DH5_TX_CH_39_Vertical



Condition: 3m VERTICAL Job No : 04945WM Mode : 2441 TX RSE

: BT DH5

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1511.833	7.21	24.92	54.70	55.73	33.16	74.00	-40.84	peak
2	3196.094	7.70	29.20	55.12	56.55	38.33	74.00	-35.67	Peak
3	4882.000	8.98	32.16	56.22	54.73	39.65	74.00	-34.35	peak
4	7323.000	11.12	36.75	56.44	53.24	44.67	74.00	-29.33	peak
5	9764.000	12.86	38.60	54.31	49.94	47.09	74.00	-26.91	peak
6	pp12835.290	15.18	40.34	54.38	48.53	49.67	74.00	-24.33	peak



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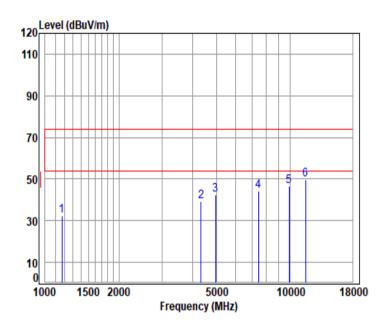


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BT_DH5_TX_CH_78_Horizontal



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 2480 TX RSE

: BT DH5

		0110							
		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	1168.920	7.16	25.36	54.70	54.52	32.34	74.00	-41.66	peak
2	4341.886	8.49	31.30	55.84	55.40	39.35	74.00	-34.65	peak
3	4960.000	9.07	32.20	56.27	57.55	42.55	74.00	-31.45	peak
4	7440.000	11.08	36.78	56.35	52.89	44.40	74.00	-29.60	peak
5	9920.000	12.73	38.90	54.17	49.18	46.64	74.00	-27.36	peak
6	pp11600.350	14.48	39.60	53.68	49.19	49.59	74.00	-24.41	peak



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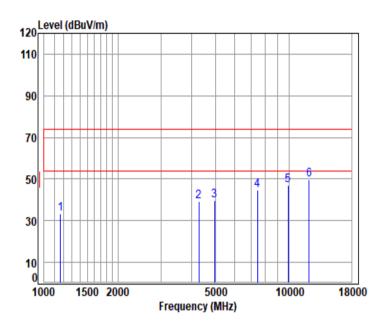


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BT_DH5_TX_CH_78_Vertical



Condition: 3m VERTICAL Job No : 04945WM Mode : 2480 TX RSE

: BT DH5

		. 61 6115							
		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	1165.546	7.16	25.37	54.70	55.27	33.10	74.00	-40.90	peak
2	4291.977	8.45	31.27	55.80	55.41	39.33	74.00	-34.67	peak
3	4960.000	9.07	32.20	56.27	54.86	39.86	74.00	-34.14	peak
4	7440.000	11.08	36.78	56.35	53.04	44.55	74.00	-29.45	peak
5	9920.000	12.73	38.90	54.17	49.46	46.92	74.00	-27.08	peak
6	pp12079.390	14.36	39.72	53.86	49.60	49.82	74.00	-24.18	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

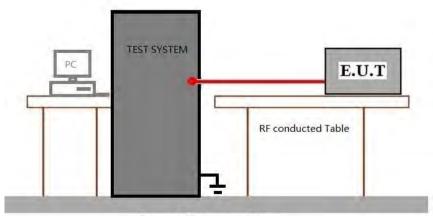
Operating Environment:

Temperature: 21.3 °C Humidity: 35.3 % RH Atmospheric Pressure: 1020 mbar

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.

7.5.3 Test Setup Diagram



Ground Reference Plane



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7.5.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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7.6 20dB Bandwidth

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

7.6.1 E.U.T. Operation

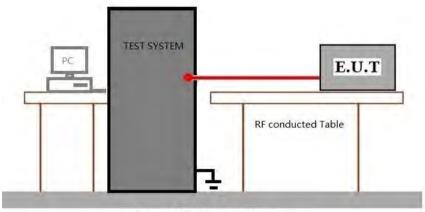
Operating Environment:

Temperature: 21.3 °C Humidity: 35.3 % RH Atmospheric Pressure: 1020 mbar

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

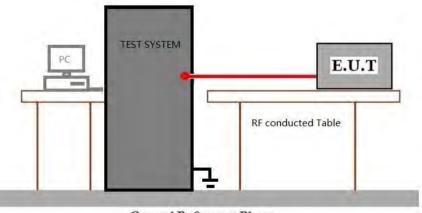
Operating Environment:

Temperature: 21.3 °C Humidity: 35.3 % RH Atmospheric Pressure: 1020 mbar

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

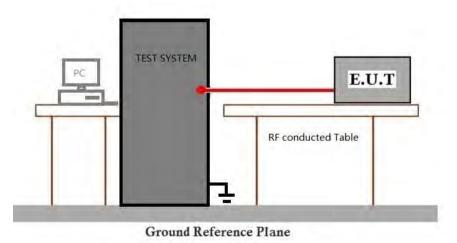
Operating Environment:

Temperature: 21.3 °C Humidity: 35.3 % 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		
902-928	0.4S within a 20S period(20dB bandwidth<250kHz)		
902-928	0.4S within a 10S period(20dB bandwidth≥250kHz)		
2400 2492 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

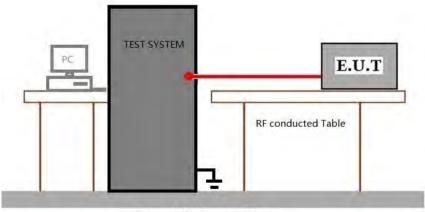
Operating Environment:

Temperature: 21.3 °C Humidity: 35.3 % RH Atmospheric Pressure: 1020 mbar

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

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

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: 21.3 °C Humidity: 35.3 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

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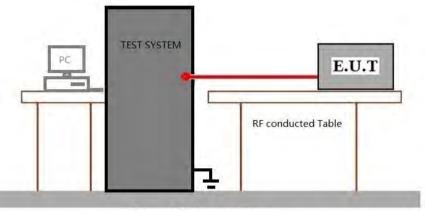
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7.10.3 Test Setup Diagram



Ground Reference Plane

7.10.4 Measurement Procedure and Data

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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

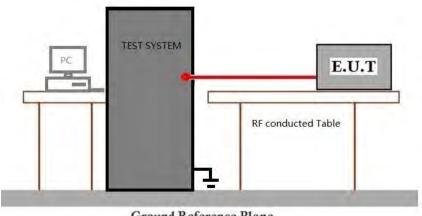
Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 21.3 °C Humidity: 35.3 % RH

7.11.2 Test Mode Description

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

7.11.3 Test Setup Diagram



Ground Reference Plane

7.11.4 Measurement Procedure and Data

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Test Setup Photo 8

Please refer to SZCR2412004945 Appendix_Setup Photo

EUT Constructional Details (EUT Photos) 9

Refer to Appendix – External and Internal Photos for SZCR2412004945WM.



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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant22

Ant22								
Mode	TX Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
		2402	DH5	2.895	3.750	77.20	1.12	0.03
GFSK	SISO	2441	DH5	2.895	3.750	77.20	1.12	0.03
		2480	DH5	2.895	3.750	77.20	1.12	0.03
	SISO	2402	2DH5	2.898	3.750	77.28	1.12	0.04
Pi/4DQPSK		2441	2DH5	2.898	3.750	77.28	1.12	0.01
		2480	2DH5	2.898	3.750	77.28	1.12	0.01
	SISO	2402	3DH5	2.901	3.751	77.34	1.12	0.03
8DPSK		2441	3DH5	2.901	3.751	77.34	1.12	0.03
		2480	3DH5	2.901	3.751	77.34	1.12	0.03



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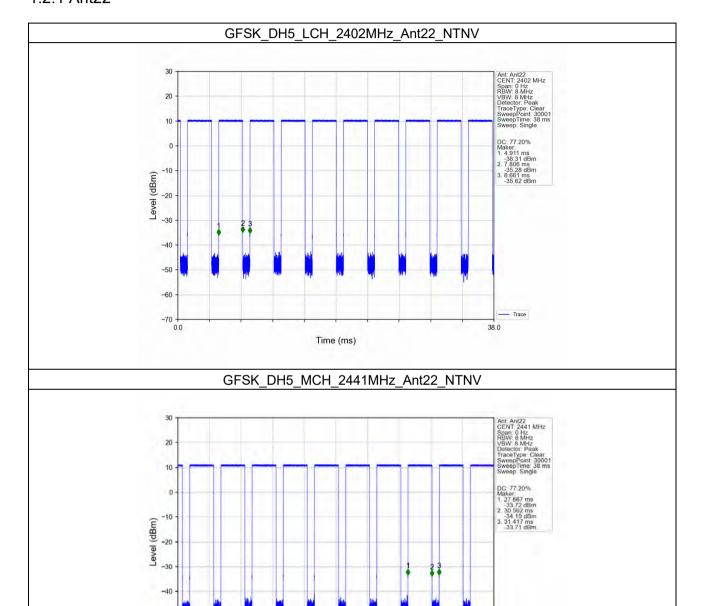
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1.2 Test Graph

1.2.1 Ant22





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Time (ms)

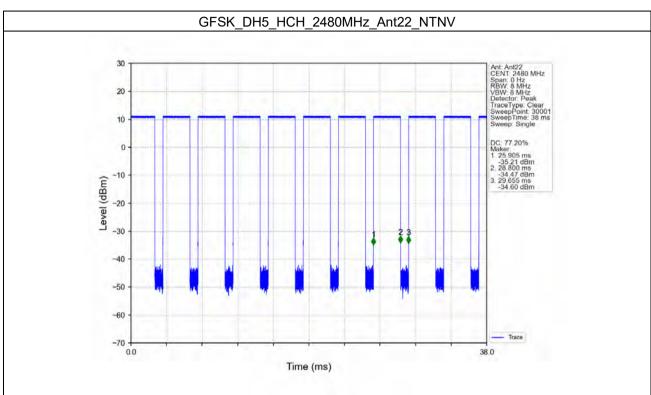
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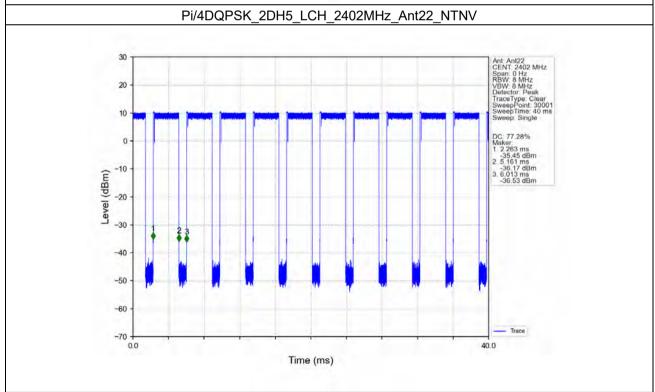


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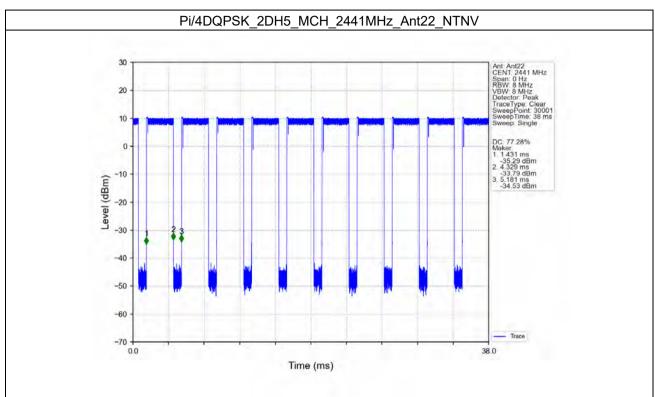
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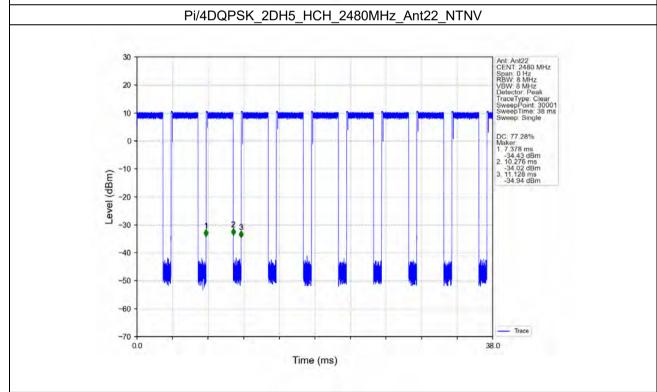


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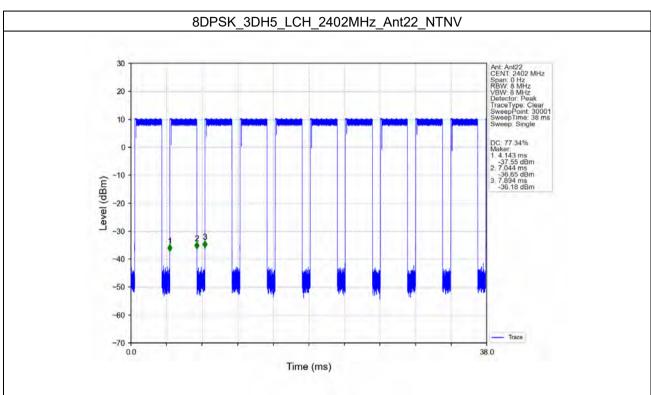
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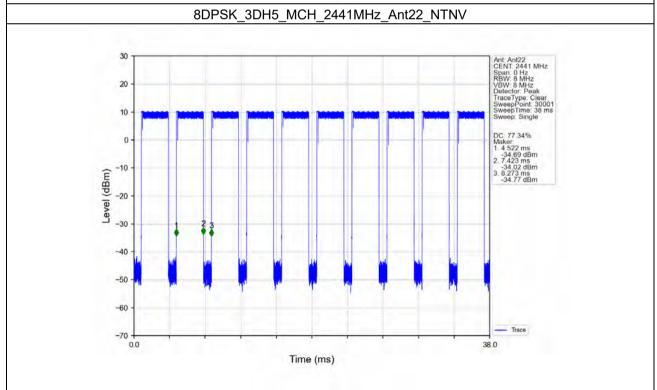


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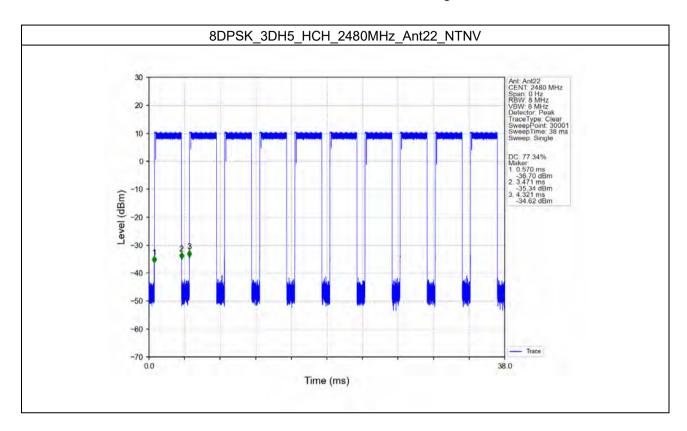
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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency		ANIT	99% Occupied E	Verdict	
		(MHz)		ANT	Result	Limit	verdict
GFSK		2402	DH5	22	0.748	1	Pass
	SISO	2441	DH5	22	0.746	1	Pass
		2480	DH5	22	0.745	1	Pass
Pi/4DQPSK	SISO	2402	2DH5	22	1.143	1	Pass
		2441	2DH5	22	1.143	1	Pass
		2480	2DH5	22	1.144	1	Pass
8DPSK		2402	3DH5	22	1.155	1	Pass
	SISO	2441	3DH5	22	1.152	1	Pass
		2480	3DH5	22	1.153	1	Pass

2.1.2 20dB BW

Mode	TX Type	TX Frequency Packet		ANT	20dB Band	Verdict	
		(MHz)	Type	Type	Result	Limit	VEIUICE
		2402	DH5	22	0.850	1	Pass
GFSK	SISO	2441	DH5	22	0.846	1	Pass
		2480	DH5	22	0.850	1	Pass
	SISO	2402	2DH5	22	1.283	1	Pass
Pi/4DQPSK		2441	2DH5	22	1.277	1	Pass
		2480	2DH5	22	1.284	1	Pass
8DPSK	SISO	2402	3DH5	22	1.286	1	Pass
		2441	3DH5	22	1.284	1	Pass
		2480	3DH5	22	1.294	1	Pass



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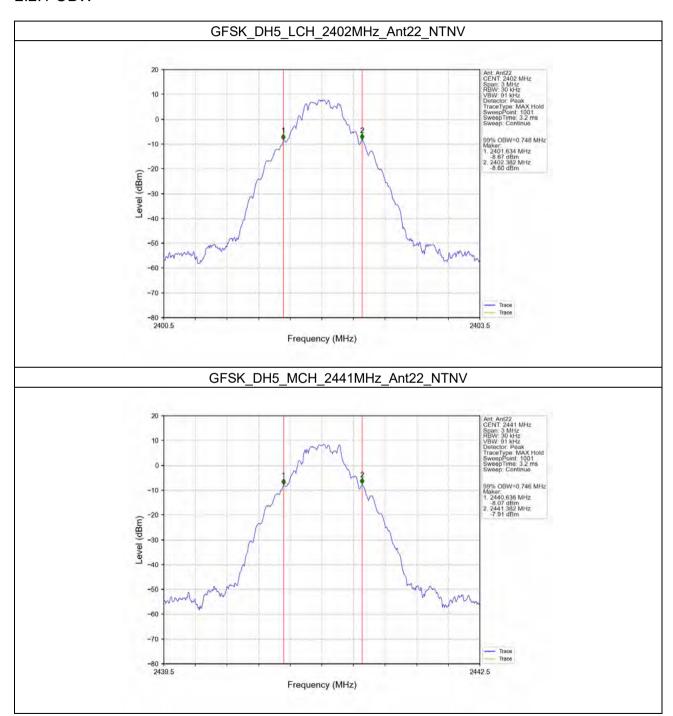
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2.2 Test Graph

2.2.1 OBW





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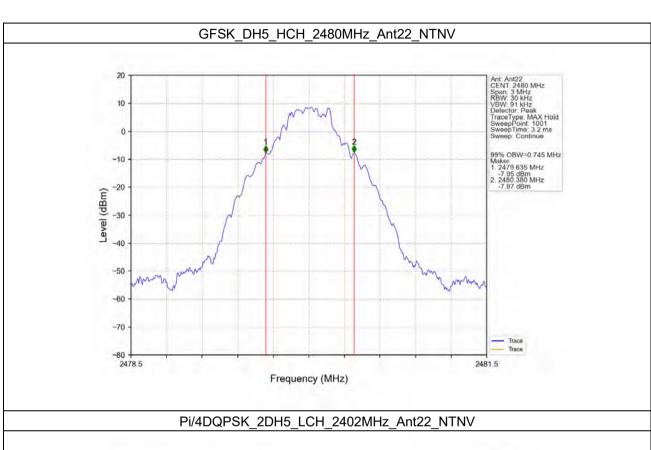
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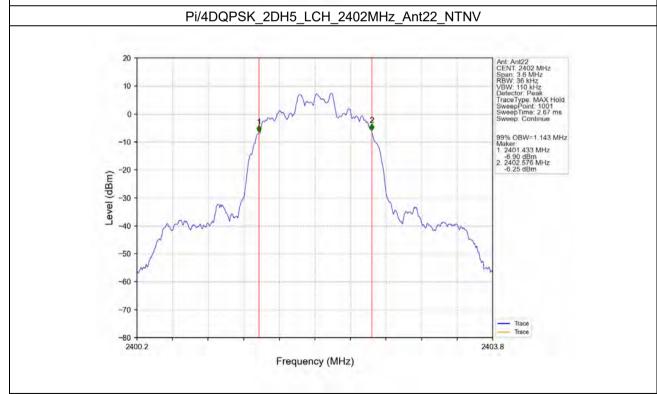


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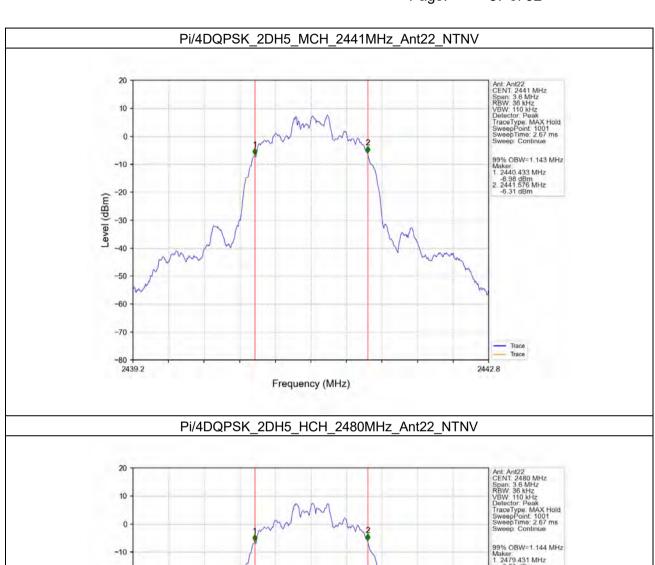
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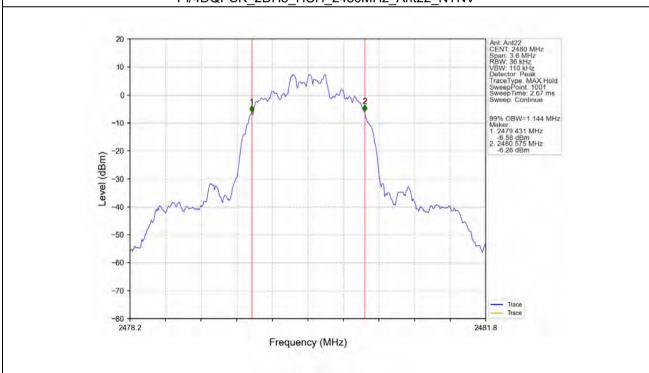


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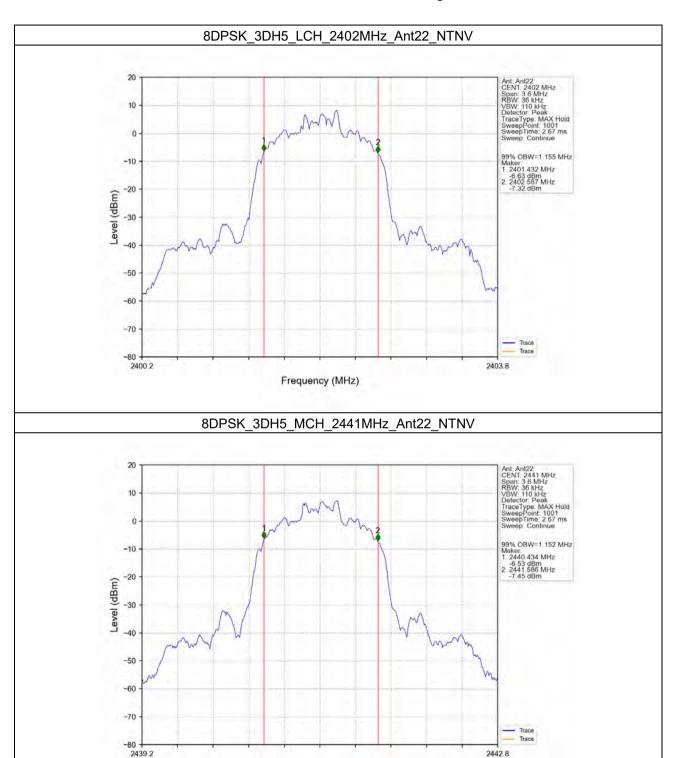
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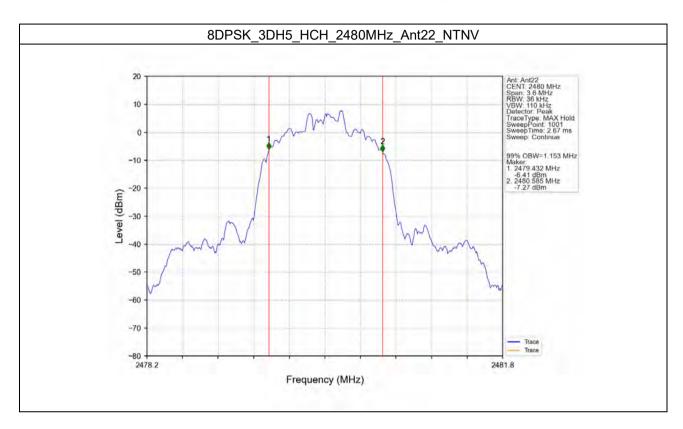
Frequency (MHz)



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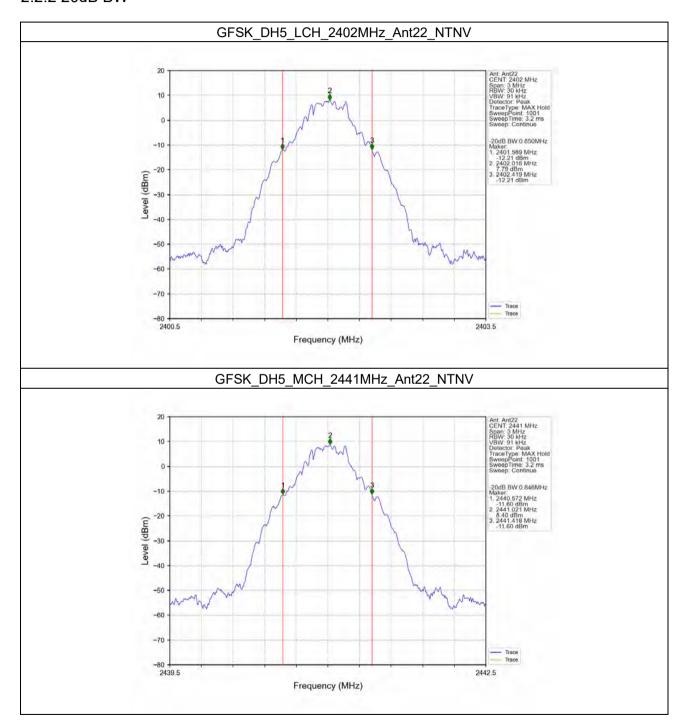


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2 2 2 20dB BW





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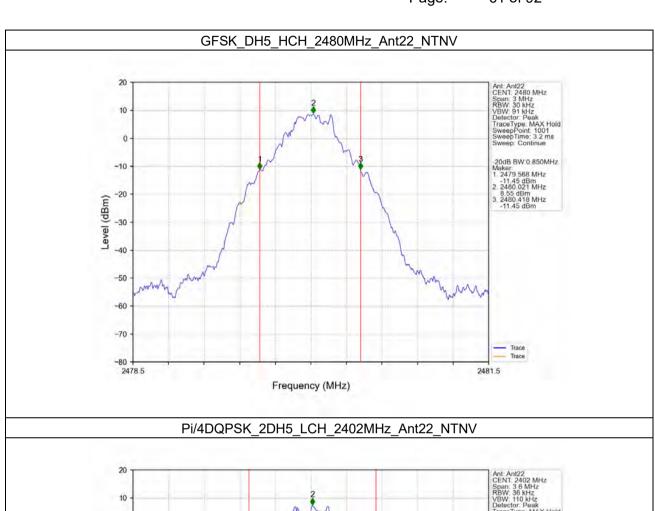
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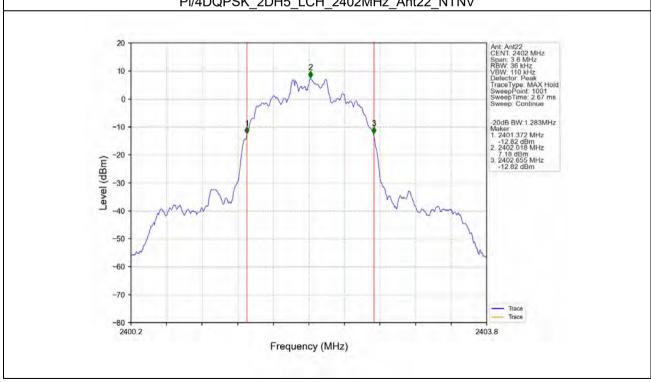


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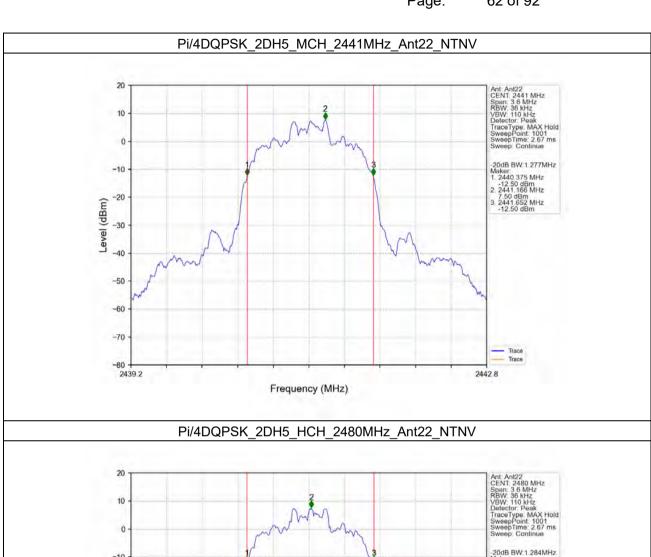
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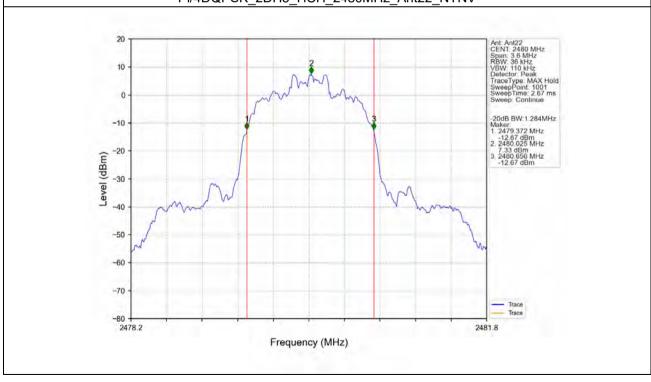


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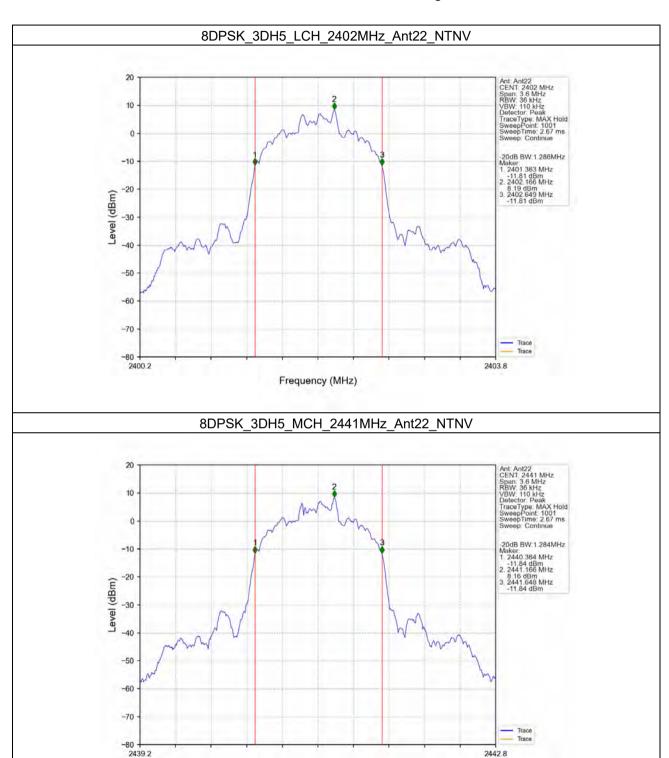
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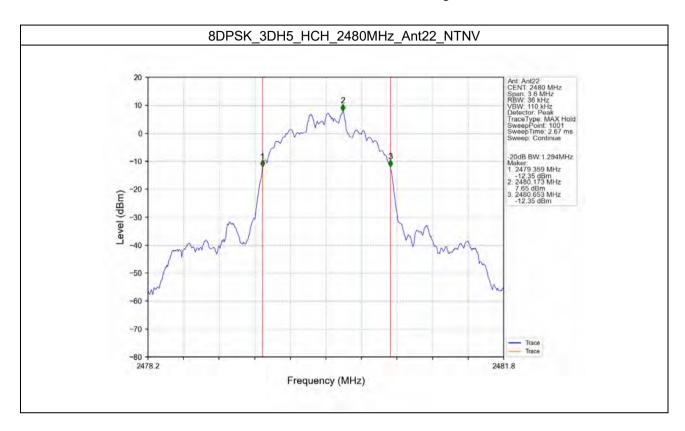
Frequency (MHz)



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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency	Packet (ducted Output Power	Verdict	
		(MHz)	Туре	ANT22	Limit		
		2402	DH5	10.30	<=30	Pass	
GFSK	SISO	2441	DH5	10.90	<=30	Pass	
		2480	DH5	11.05	<=30	Pass	
	SISO	2402	2DH5	10.62	<=20.97	Pass	
Pi/4DQPSK		2441	2DH5	10.40	<=20.97	Pass	
		2480	2DH5	10.62	<=20.97	Pass	
	SISO	2402	3DH5	10.27	<=20.97	Pass	
8DPSK		2441	3DH5	10.23	<=20.97	Pass	
		2480	3DH5	10.43	<=20.97	Pass	
Note1: Antenna Gain: Ant22: 0.92dBi;							

4. Carrier Frequency Separation

4.1 Test Result

4.1.1 Ant22

Ant22									
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict		
GFSK	SISO	HOPP	DH5	0.984	0.850	>=0.85	Pass		
Pi/4DQPSK	SISO	HOPP	2DH5	0.998	1.284	>=0.856	Pass		
8DPSK	SISO	HOPP	3DH5	1.003	1.294	>=0.863	Pass		



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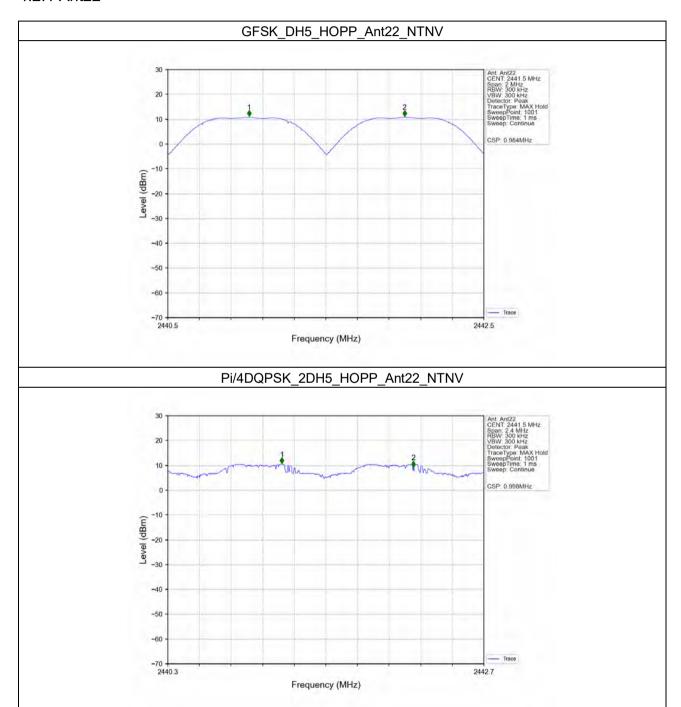
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4.2 Test Graph

4.2.1 Ant22





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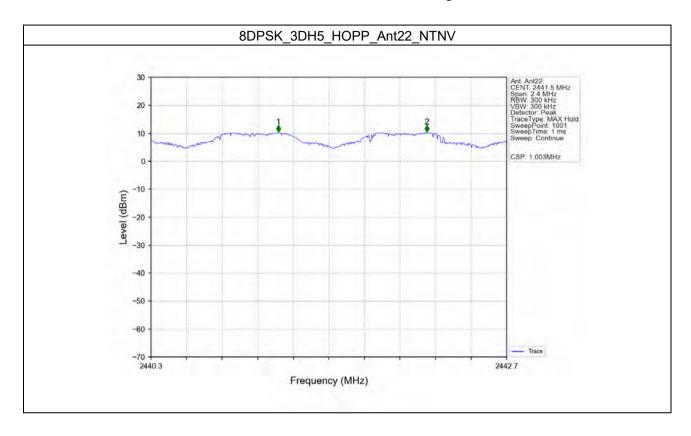
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5. Number of Hopping Frequencies

5.1 Test Result

5.1.1 HoppNum

Mode	TX	Frequency	Packet	Num of Hoppin	Verdict	
	Type	(MHz)	Туре	ANT22	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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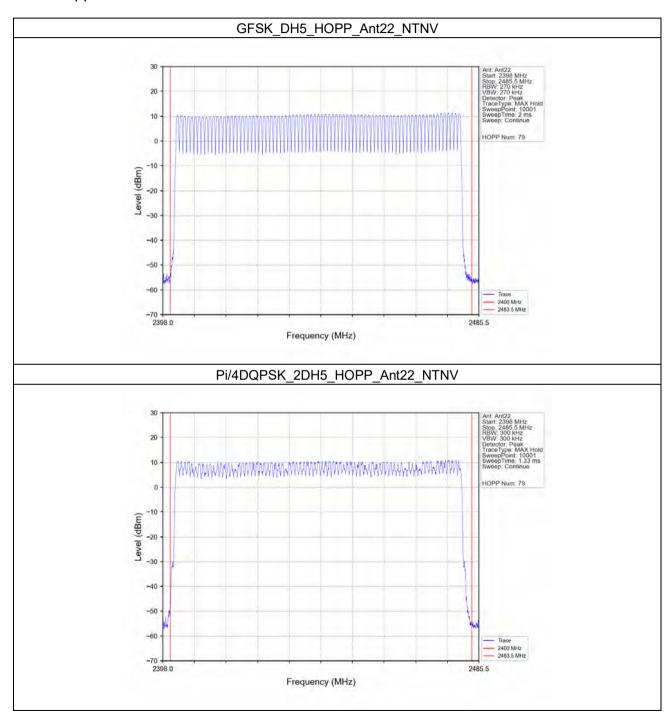
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5.2 Test Graph

5.2.1 HoppNum





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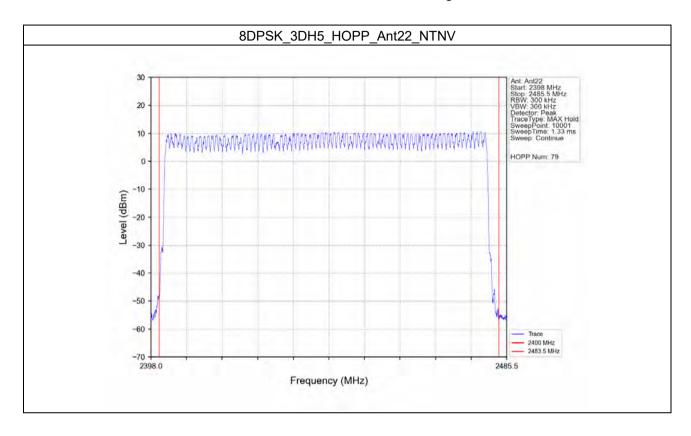
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6. Time of Occupancy (Dwell Time)

6.1 Test Result

6.1.1 Ant22

	Ant22											
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict			
GFSK	SISO	HOPP	DH5	2.898	31.600	119	344.862	<=400	Pass			
Pi/4DQPSK	SISO	HOPP	2DH5	2.886	31.600	113	326.118	<=400	Pass			
8DPSK	SISO	HOPP	3DH5	2.902	31.600	101	293.102	<=400	Pass			



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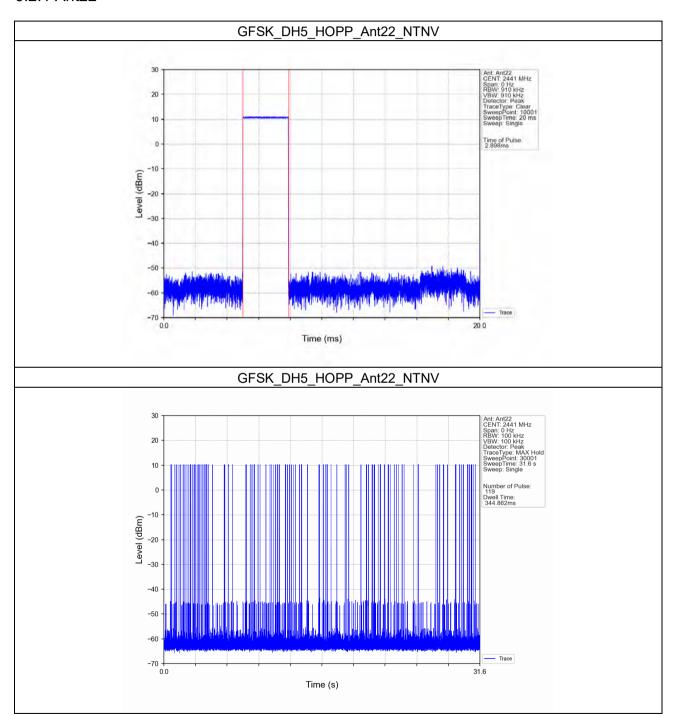
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6.2 Test Graph

6.2.1 Ant22





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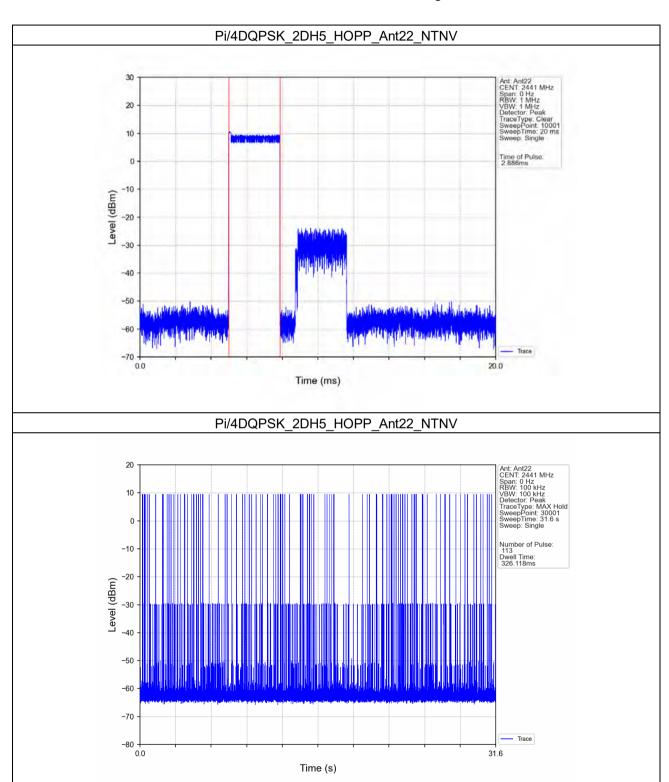
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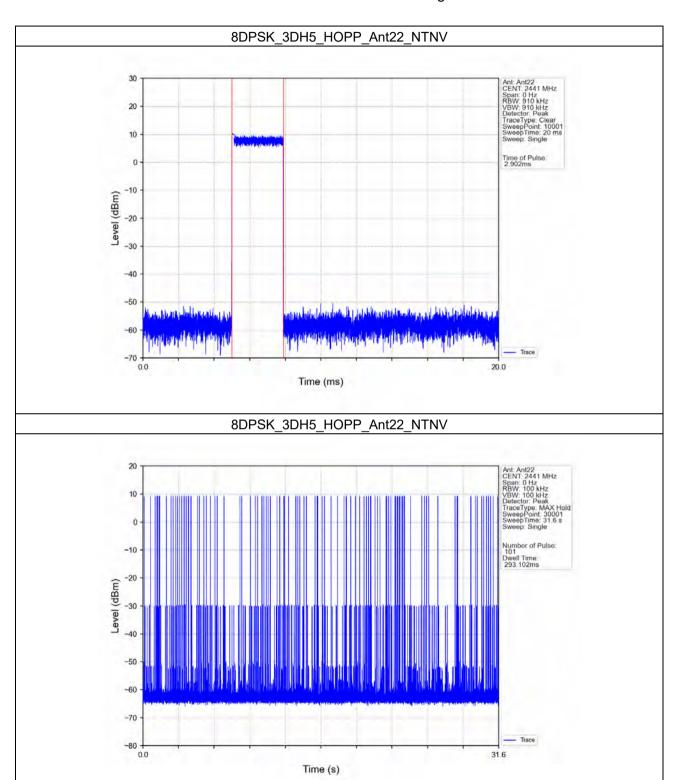
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7. Unwanted Emissions In Non-restricted Frequency Bands

7.1 Test Result

7.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet ANT Type		Level of Reference (dBm)	
GFSK	SISO	2402	DH5	22	9.79	
		2441	DH5	22	10.46	
		2480	DH5	22	10.59	
Pi/4DQPSK	SISO	2402	2DH5	22	10.32	
		2441	2DH5	22	10.33	
		2480	2DH5	22	10.51	
8DPSK	SISO	2402	3DH5	22	10.08	
		2441	3DH5	22	10.19	
		2480	3DH5	22	10.04	

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



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7.1.2 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	22	10.59	-9.41	Pass
		2441	DH5	22	10.59	-9.41	Pass
		2480	DH5	22	10.59	-9.41	Pass
		HOPP	DH5	22	10.59	-9.41	Pass
					10.59	-9.41	Pass
Pi/4DQPSK	SISO	2402	2DH5	22	10.51	-9.49	Pass
		2441	2DH5	22	10.51	-9.49	Pass
		2480	2DH5	22	10.51	-9.49	Pass
		HOPP	2DH5	22	10.51	-9.49	Pass
					10.51	-9.49	Pass
8DPSK	SISO	2402	3DH5	22	10.19	-9.81	Pass
		2441	3DH5	22	10.19	-9.81	Pass
		2480	3DH5	22	10.19	-9.81	Pass
		HOPP	3DH5	22	10.19	-9.81	Pass
					10.19	-9.81	Pass

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



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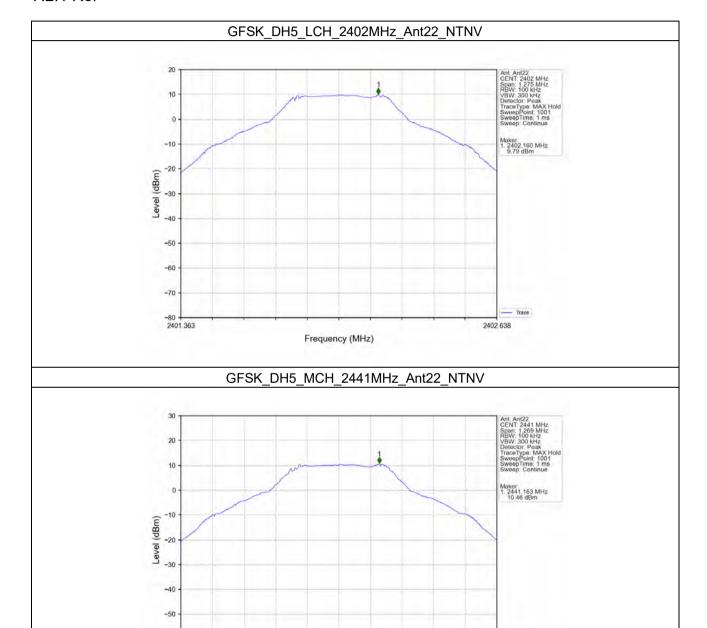
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7.2 Test Graph

7.2.1 Ref





-60

2440.366

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Frequency (MHz)

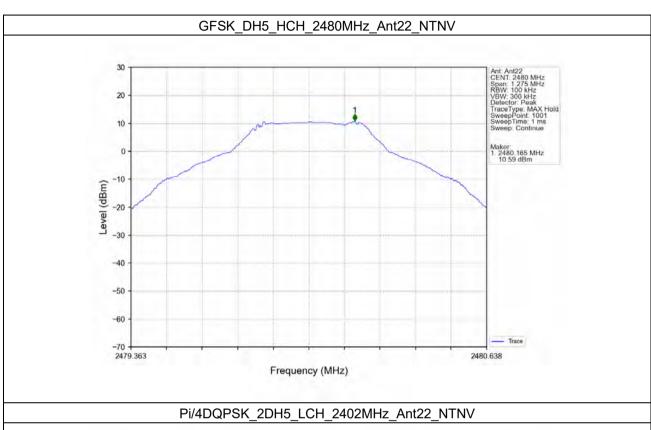
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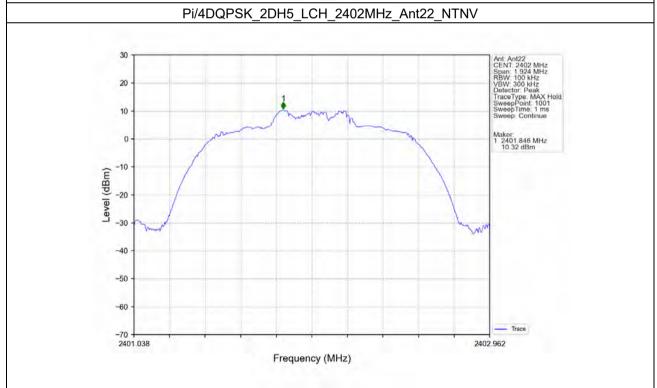


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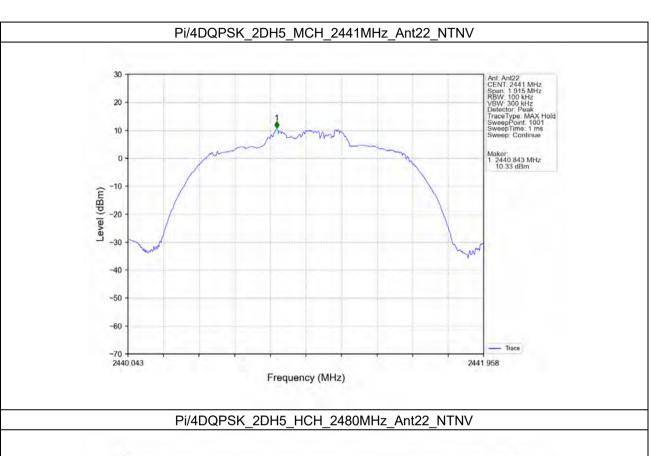
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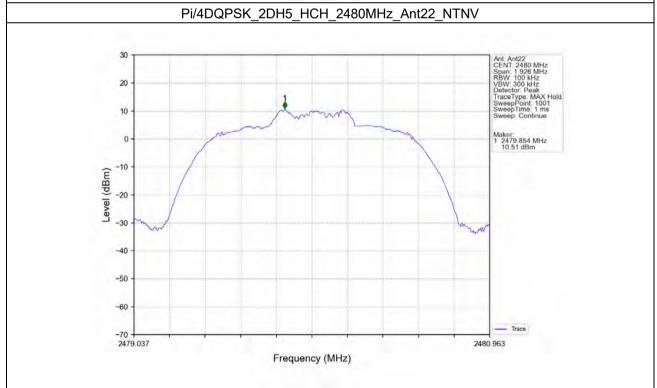


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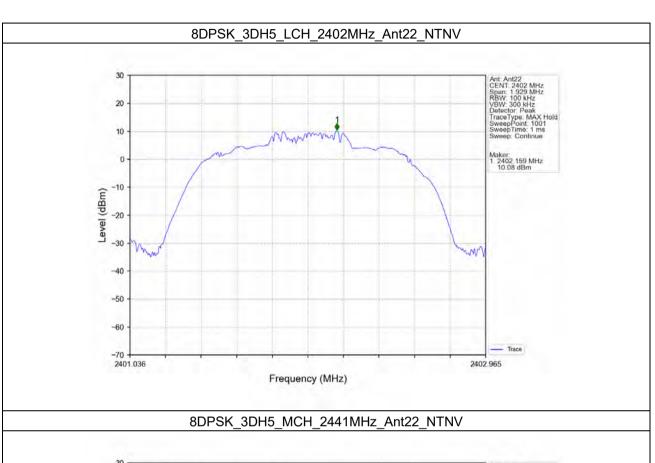
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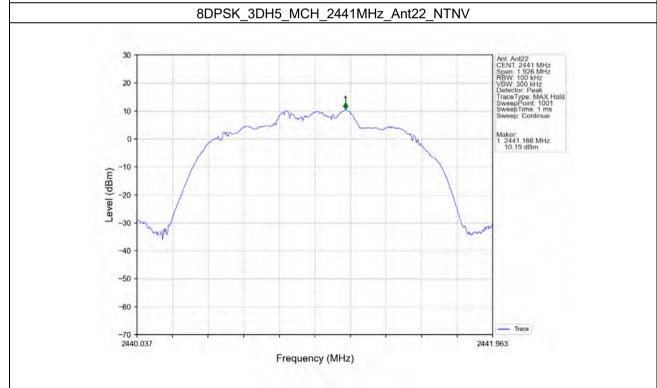


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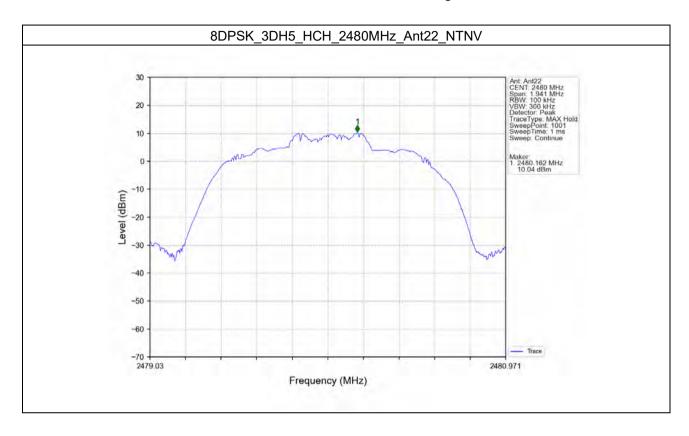
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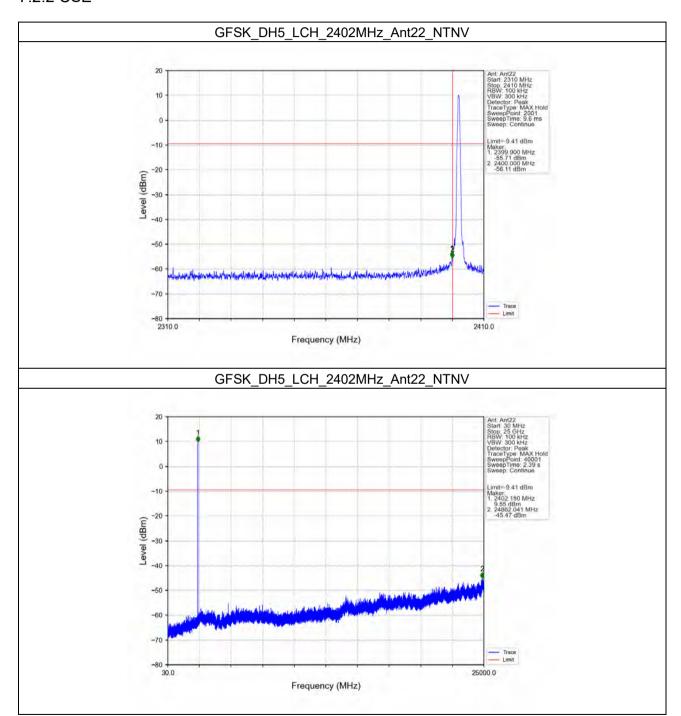


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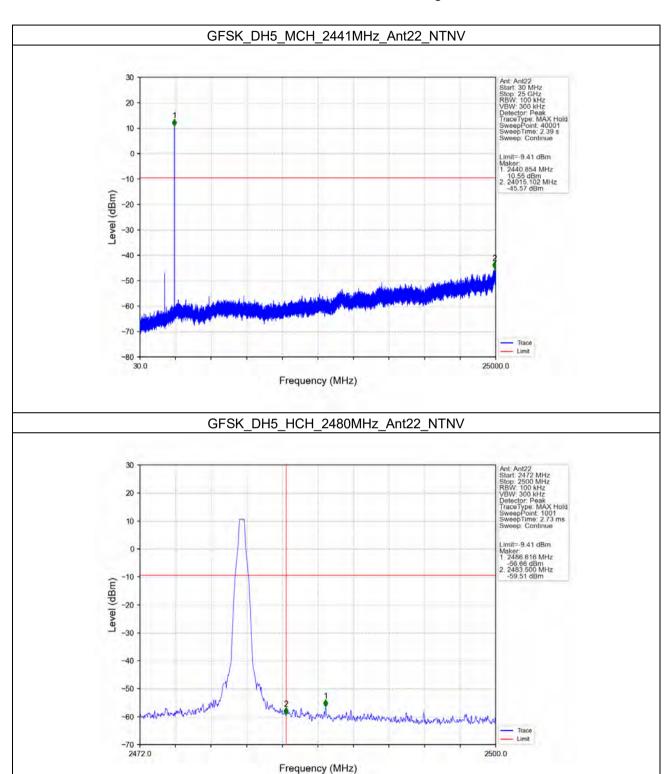
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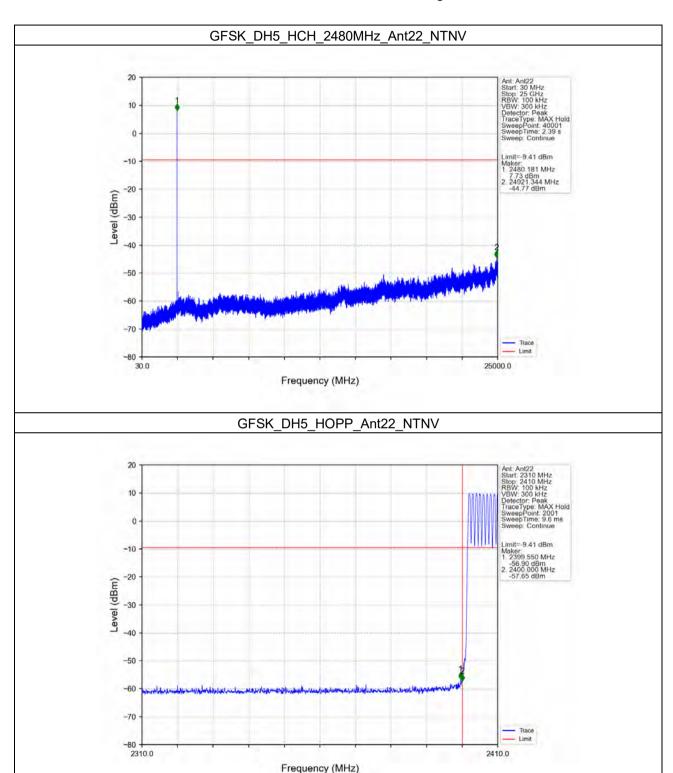
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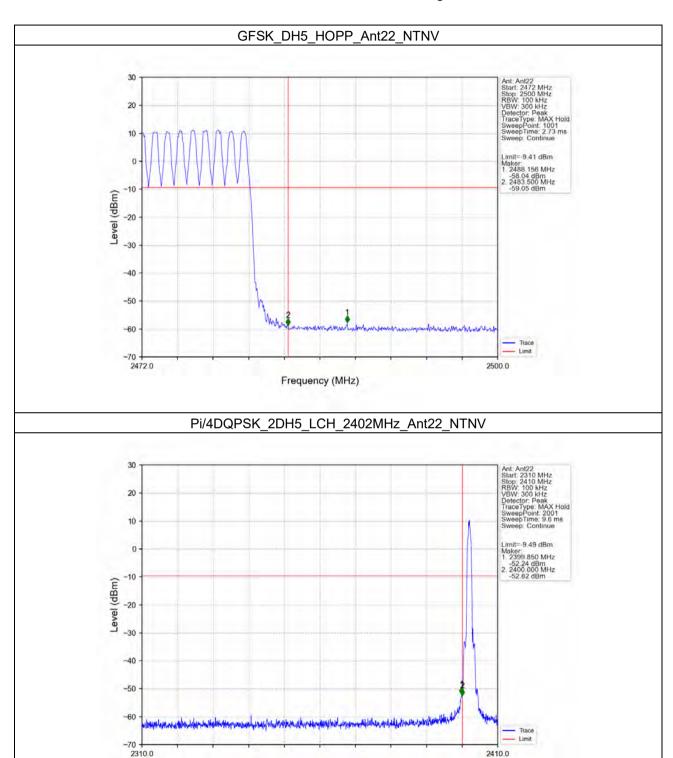
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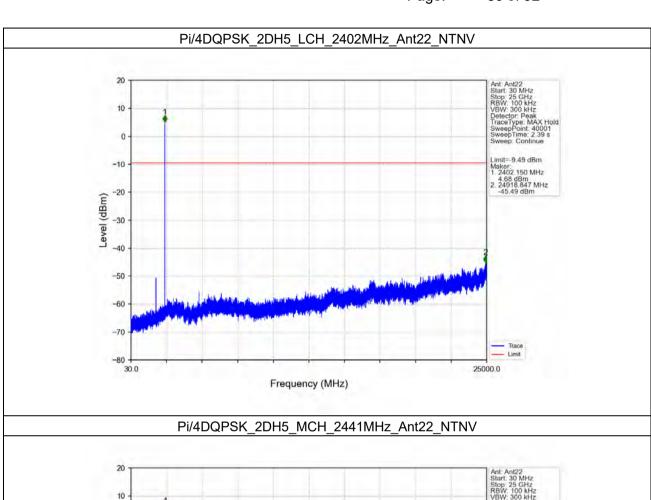
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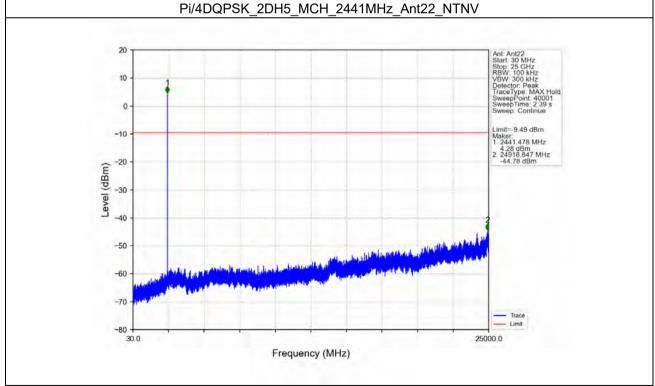


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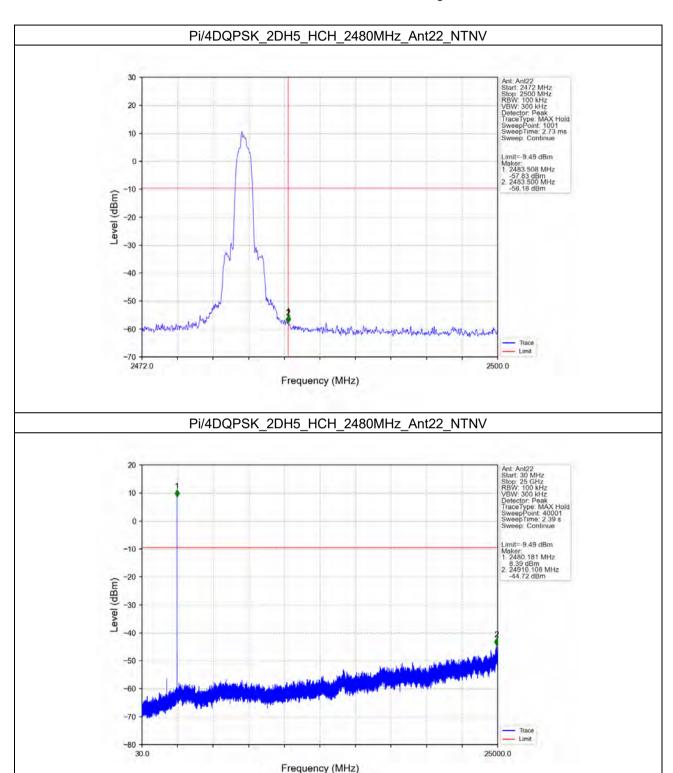
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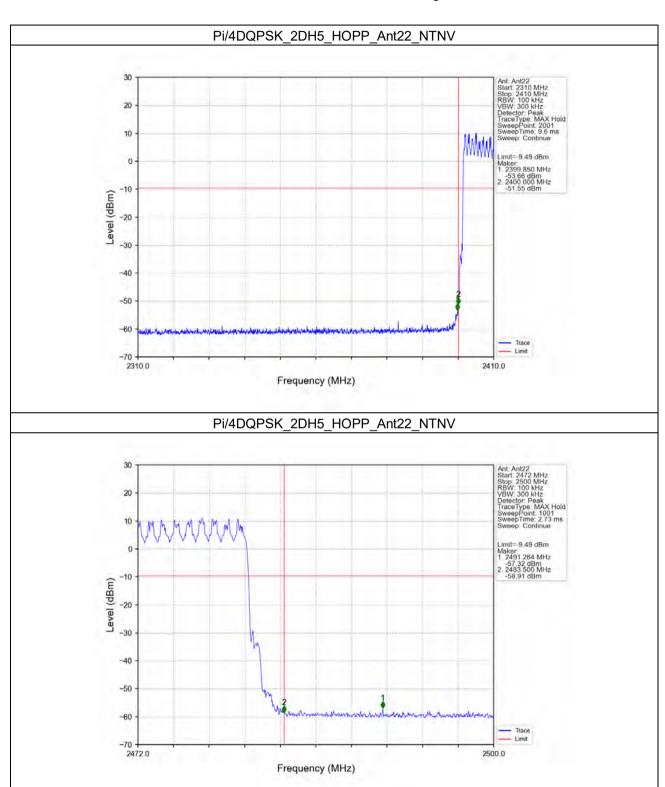
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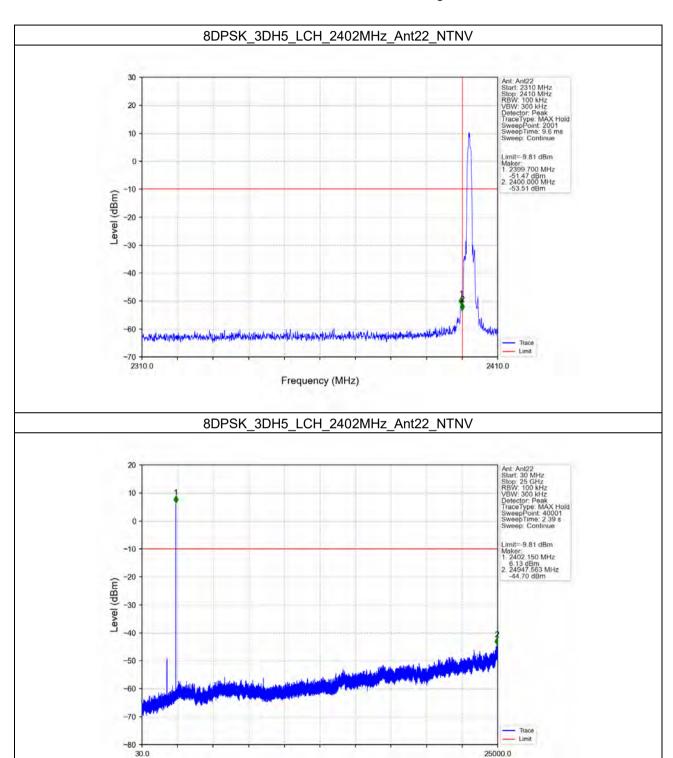
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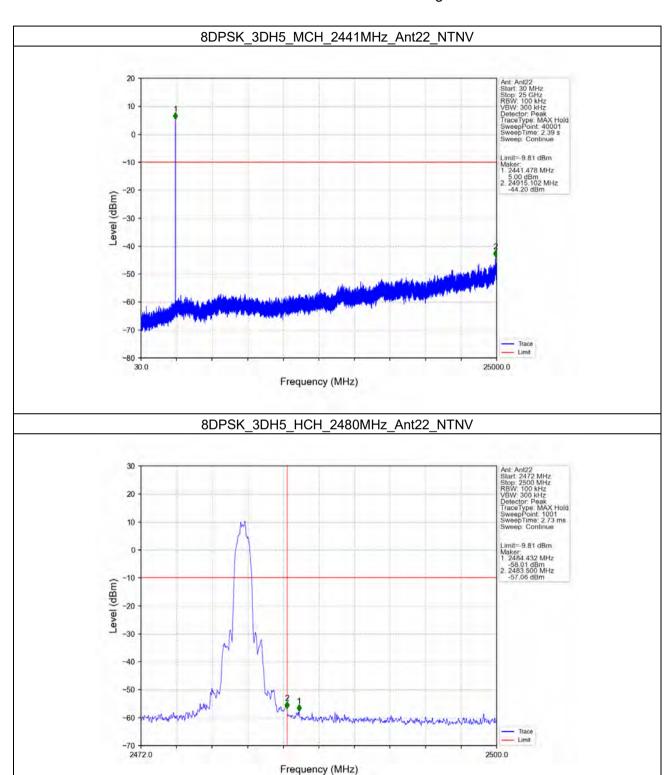
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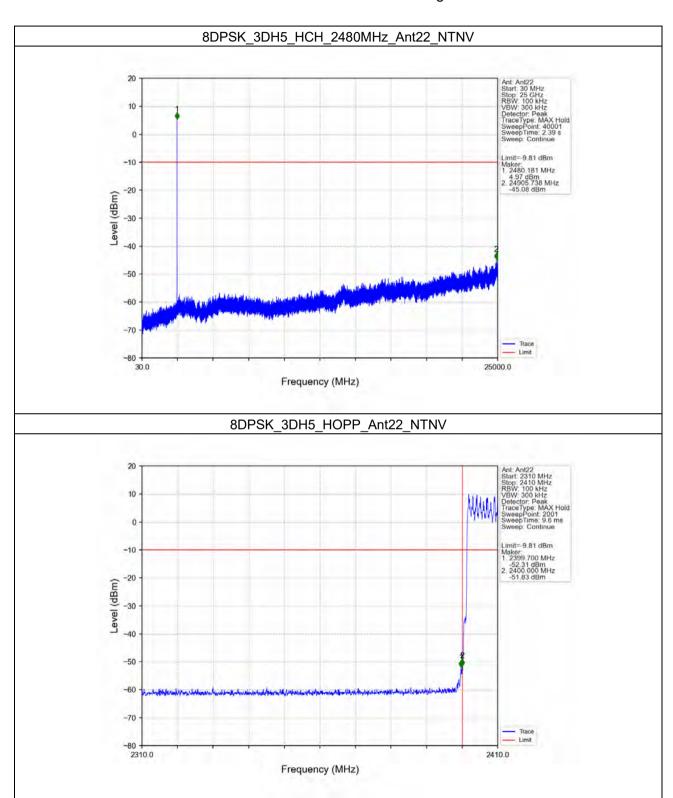
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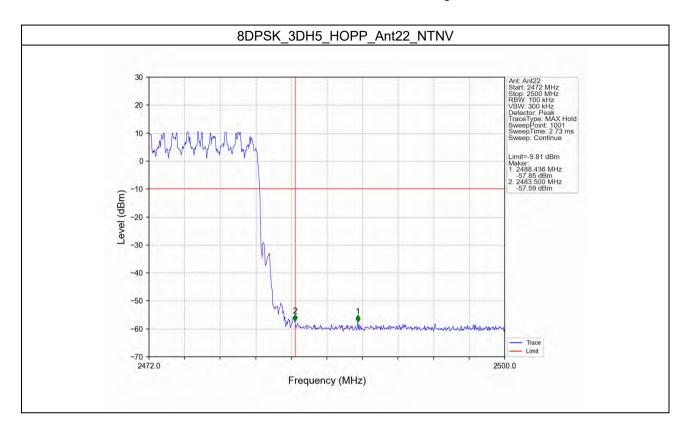
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