

EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 Page: 1 of 98 FCC ID: VIXGIGXL

TEST REPORT

Application No.:	GZCR2301000077AT		
Applicant:	Voxx Accessories Corp.		
Address of Applicant:	3502 Woodview Trace, Suite 220, Indianapolis, Indiana, 46268		
Manufacturer:	Klipsch Group, Inc.		
Address of Manufacturer:	3502 Woodview Trace, Suite 200, Indianapolis, Indiana, U.S.A		
Factory:	Guangzhou Panyu Juda Car Audio Equipment Co., Ltd		
Address of Factory:	NO.5 Building, No.139, Zhouxing Street, Dongchong Town, Nansha District, Guangzhou City, Guangdong Province, China		
Equipment Under Test (EUT):		
EUT Name:	Portable Bluetooth Party Speaker		
Model No.:	GIG XL		
Trade Mark:	Klipsch		
Standard(s) :	47 CFR Part 15, Subpart C 15.247		
Date of Receipt:	2023-01-13		
Date of Test:	2023-01-17 to 2023-01-31		
Date of Issue:	2023-03-02		
Test Result:	Pass*		

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

Ridey Liu

Ricky Liu Manager



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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 Page: 2 of 98

	Revision Record				
Version	Report No.	Date	Remark		
01	GZCR230100007702	2023-03-02	Original		

Authorized for issue by		
	Kevin zhang	
	Kevin Zhang/Project Engineer	
	vius cui	
	Vico Cui/Reviewer	



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Rev 1.1 EMC-TRF-01

Report No.: GZCR230100007702 3 of 98 Page:

Test Summary 2

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 Matt	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			

Note:

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

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



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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 Page: 4 of 98

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.	
	4.1 Details of E.O.T. 4.2 Description of Support Units	
	4.3 Measurement Uncertainty	
	4.4 Test Location	
	4.5 Test Facility	
	4.6 Deviation from Standards	
	4.7 Abnormalities from Standard Conditions	8
5	Equipment List	9
Ŭ		•
6	Radio Spectrum Technical Requirement	13
	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:	
	6.2.2 Conclusion	
7	Radio Spectrum Matter Test Results	
-	7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	
	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	17
	7.2 Conducted Peak Output Power	20
	7.2.1 E.U.T. Operation	
	7.2.2 Test Mode Description	
	7.2.3 Test Setup Diagram	
	7.2.4 Measurement Procedure and Data	
	7.3 20dB Bandwidth	
	7.3.1 E.U.T. Operation7.3.2 Test Mode Description	
	7.3.2 Test Mode Description7.3.3 Test Setup Diagram	
	7.3.4 Measurement Procedure and Data	
	7.4 Carrier Frequencies Separation	
	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	
	7.5 Hopping Channel Number	
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EMC-TRF-01	Rev 1.1	Report No	.: GZCR230100007702	
		Page:	5 of 98	
7.5.1	E.U.T. Operation	-		23
7.5.2	Test Mode Description			
7.5.3	Test Setup Diagram			
7.5.4	Measurement Procedure and Data			
7.6 D	Dwell Time			<u>2</u> 4
7.6.1	E.U.T. Operation			<u>2</u> 4
7.6.2	Test Mode Description			
7.6.3	Test Setup Diagram			24
7.6.4	Measurement Procedure and Data			
7.7 0	Conducted Band Edges Measurement		2	25
7.7.1	E.U.T. Operation		2	25
7.7.2	Test Mode Description			25
7.7.3	Test Setup Diagram			25
7.7.4	Measurement Procedure and Data			25
7.8 0	Conducted Spurious Emissions		2	26
7.8.1	E.U.T. Operation		2	26
7.8.2	Test Mode Description			26
7.8.3	Test Setup Diagram			26
7.8.4	Measurement Procedure and Data			
7.9 F	Radiated Emissions which fall in the restricted bands.		2	27
7.9.1	E.U.T. Operation			
7.9.2	Test Mode Description			27
7.9.3	Test Setup Diagram			
7.9.4	Measurement Procedure and Data			
7.10 F	Radiated Spurious Emissions Below 1GHz			
7.10.1				
7.10.2				
7.10.3	1 5			
7.10.4				
	Radiated Spurious Emissions Above 1GHz			
7.11.1	I I I I I I I I I I I I I I I I I I I			
7.11.2				
7.11.3	1 5			
7.11.4	Measurement Procedure and Data			38
8 Test S	Setup Photo			15
9 EUT C	Constructional Details (EUT Photos)			6
10 Apper	ndix			17



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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 Page: 6 of 98

General Information 4

Details of E.U.T. 4.1

Power supply:	Option 1: AC 100-240 V, 50/60 Hz, 60 W Option 2: Powered by built-in battery as below: Model: 18650 Rated: DC 7.4 V, 14.8Wh, 2000mAh
Cable(s):	AC mains (unshielded,1.5m)
	USB ports
	AUX IN ports
	MIC IN ports with microphone
Test Voltage:	AC 120 V, 60 Hz & DC 7.4 V
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Antenna Type:	PCB Antenna
Antenna Gain:	3.26 dBi
Antenna Number:	1
Antenna Nullibel.	1

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Note Book Computer	LENOVO	ThinkPad T490	PF1D1MVJ



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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 Page: 7 of 98

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	±2.76dB
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
Radiated Emissions which fall in the restricted bands	±5.00dB (30MHz-1GHz; 3m);±4.38dB (30MHz-1GHz; 10m);± 5.12dB (1GHz-6GHz); ±5.38dB (6GHz- 18GHz); ±5.61dB(18GHz-40GHz)
Radiated Spurious Emissions Below 1GHz	±5.00dB (3m); ±4.38dB (10m)
Radiated Spurious Emissions Above 1GHz	±5.12dB (1GHz-6GHz); ±5.38dB (6GHz-18GHz); ±5.61dB(18GHz- 40GHz)

4.4 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 Fax: +86 20 82075059 Tel: +86 20 82155555 No tests were sub-contracted.



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EMC-TRF-01 Rev 1.1 Report No.: GZCR230100007702 8 of 98 Page:

4.5 Test Facility

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

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

• SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 9 of 98 Page:

Equipment List 5

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Coaxial Cable	HangTianXing	2m	EMC0107	2022-08-24	2023-08-23
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2022-10-16	2025-10-15
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2022-09-09	2023-09-08
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2022-05-20	2023-05-19
Test Software E3r	Audix	Ver.6.11812	GZE100-77	N/A	N/A

Conducted Peak Output Power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2022-08-24	2023-08-23
Test Software	TST	V2.0	GZE100-78	N/A	N/A

20dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2022-08-24	2023-08-23
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Carrier Frequencies Separation					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2022-08-24	2023-08-23
Test Software	TST	V2.0	GZE100-78	N/A	N/A



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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 Page: 10 of 98

Hopping Channel Number					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2022-08-24	2023-08-23
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Dwell Time					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2022-08-24	2023-08-23
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2022-08-24	2023-08-23
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2022-08-24	2023-08-23
Test Software	TST	V2.0	GZE100-78	N/A	N/A



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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 Page: 11 of 98

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1GHz-26.5 GHz Pre- Amplifier	Agilent	8449B	EMC0521	2022-12-16	2023-12-15
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2022-12-16	2023-12-15
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23
Horn Antenna (1GHz- 18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22
Horn Antenna (14- 40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2022-10-21	2023-10-20
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2022-10-16	2025-10-15
Chamber cable	HangTianXing	N/A	EMC0542	2022-08-24	2023-08-23
Amplifier (9kHz-1.3GHz)	HP	8447F	EMC2065	2022-06-21	2023-06-20
Active Loop Antenna- RED	ETS-Lindgren	6502	EMC2190	2022-04-06	2024-04-05
EMI Test Receiver (1Hz- 8GHz)	Rohde & Schwarz	ESW8	EMC2220	2022-05-20	2023-05-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Trilog Broadband Antenna (25MHz-1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	EMC2174	2022-06-19	2025-06-18



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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 Page: 12 of 98

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1GHz-26.5 GHz Pre- Amplifier	Agilent	8449B	EMC0521	2022-12-16	2023-12-15
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2022-12-16	2023-12-15
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23
Horn Antenna (1GHz- 18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22
Horn Antenna (14- 40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2022-12-16	2023-12-15
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2022-10-21	2023-10-20
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

General used equipmen	t				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2022-06-24	2023-06-23



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EMC-TRF-01 Rev 1.1 Report No.: GZCR230100007702 13 of 98 Page:

Radio Spectrum Technical Requirement 6

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.26 dBi.

Antenna location: Refer to internal photo.



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EMC-TRF-01 Rev 1.1 Report No.: GZCR230100007702 14 of 98 Page:

6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

6.2.1 Test Requirement:

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

6.2.2 Conclusion

Standard Requirement:

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

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

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

Compliance for section 15.247(a)(1):

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

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

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



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EMC-TRF-01 Rev 1.1 Report No.: GZCR230100007702 Page: 15 of 98

Each frequency used equally on the average by each transmitter.

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

Compliance for section 15.247(g):

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

Compliance for section 15.247(h):

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

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



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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 16 of 98 Page:

Radio Spectrum Matter Test Results 7

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

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

Limit:

Frequency of emission	Conducted limit (dBµV)				
(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:

Tempera	ature:	21.3 °C	Humidity.	42.8 % RH	Atmospheric Pressure:	1023	mbar
rempere	aturo.	21.0 0	riumuny.	42.0 /0 KH	Autospherie i ressure.	1020	mbai

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.



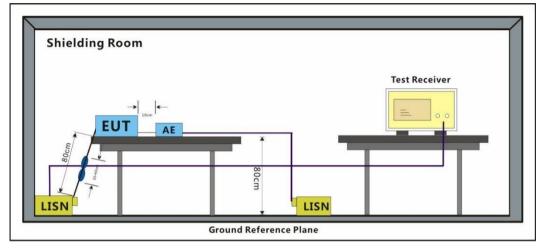
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EMC-TRF-01 Rev 1.1 Report No.: GZCR230100007702 Page: 17 of 98

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

The mains terminal disturbance voltage test was conducted in a shielded room.

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

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

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

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

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



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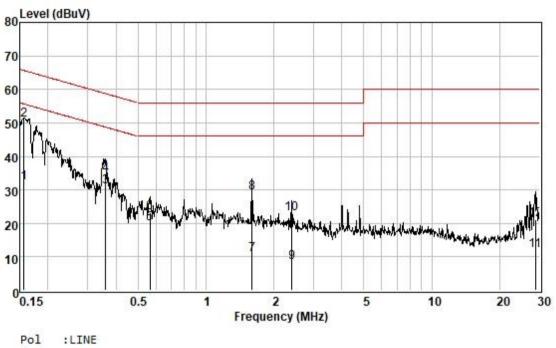
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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 Page: 18 of 98



Test Mode: 01; Line: Live line

Pol :LIN Mode : Model : Power :

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.156	22.48	0.06	9.61	32.15	55.65	-23.50	Average
2	0.156	41.28	0.06	9.61	50.95	65.65	-14.70	QP
3	0.360	21.18	0.06	9.60	30.84	48.74	-17.90	Average
4	0.360	24.73	0.06	9.60	34.39	58.74	-24.35	QP
5	0.564	10.30	0.07	9.60	19.97	46.00	-26.03	Average
6	0.564	13.48	0.07	9.60	23.15	56.00	-32.85	QP
7	1.602	0.94	0.10	9.61	10.65	46.00	-35.35	Average
8	1.602	19.45	0.10	9.61	29.16	56.00	-26.84	QP
9	2.396	-1.52	0.13	9.62	8.23	46.00	-37.77	Average
10	2.396	13.07	0.13	9.62	22.82	56.00	-33.18	QP
11	28.755	1.73	0.42	9.64	11.79	50.00	-38.21	Average
12	28.755	10.92	0.42	9.64	20.98	60.00	-39.02	QP



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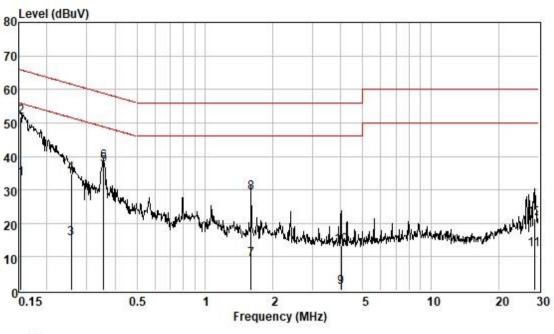
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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 Page: 19 of 98



Test Mode: 01; Line: Neutral Line

Pol :NEUTRAL Mode : Model : Power :

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.153	23.63	0.06	9.63	33.32	55.82	-22.50	Average
2	0.153	41.95	0.06	9.63	51.64	65.82	-14.18	QP
3	0.256	5.86	0.06	9.61	15.53	51.56	-36.03	Average
4	0.256	25.21	0.06	9.61	34.88	61.56	-26.68	QP
5	0.356	27.66	0.06	9.62	37.34	48.83	-11.49	Average
6	0.356	28.63	0.06	9.62	38.31	58.83	-20.52	QP
7	1.602	-0.39	0.10	9.60	9.31	46.00	-36.69	Average
8	1.602	19.54	0.10	9.60	29.24	56.00	-26.76	QP
9	4.006	-8.82	0.16	9.64	0.98	46.00	-45.02	Average
10	4.006	3.47	0.16	9.64	13.27	56.00	-42.73	QP
11	28.755	1.85	0.42	9.92	12.19	50.00	-37.81	Average
12	28.755	11.19	0.42	9.92	21.53	60.00	-38.47	QP



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Report No.: GZCR230100007702 Page: 20 of 98

7.2 Conducted Peak Output Power

Test Requirement47 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

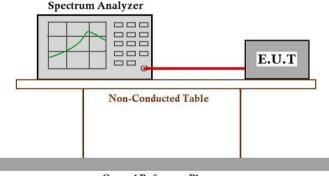
7.2.1 E.U.T. Operation

Operating Enviror	nment:					
Temperature:	20.9 °C	Humidity:	46.5 % RH	Atmospheric Pressure:	1023	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

7.2.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



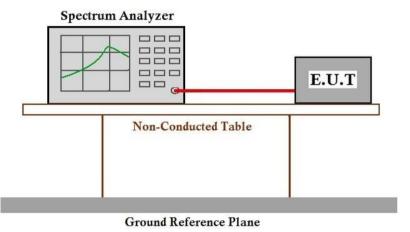
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EMC-TRF-01 Rev 1.1		Report No.: GZCR230100007702
		Page: 21 of 98
7.3 20dB Bandwidth Test Requirement Test Method:	47 CFR Part 15, Subpart C 15.247(ANSI C63.10 (2013) Section 7.8.7	a)(1)
7.3.1 E.U.T. Operation Operating Environment: Temperature: 20.9		Atmospheric Pressure: 1023 mbar
7.3.2 Test Mode Description	1	
Pre-scan / Mode Final test Code	Description	
Final test 00	- · · ·	F in continuously transmitting mode with odulation, 8DPSK modulation. All modes

7.3.3 Test Setup Diagram



have been tested and only the data of worst case is recorded in the report.

7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 Page: 22 of 98

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.

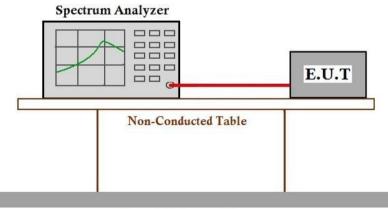
7.4.1 E.U.T. Operation

Operating Enviror	nment:					
Temperature:	20.9 °C	Humidity:	46.5 % RH	Atmospheric Pressure:	1023	mbar

7.4.2 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.

7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 Page: 23 of 98

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)
902-928	50 for 20dB bandwidth <250kHz
	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

7.5.1 E.U.T. Operation

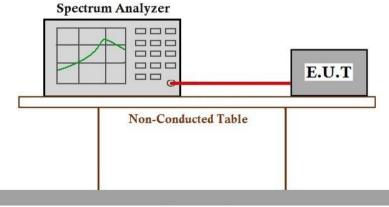
Operating Environment:

Temperature:	20.9 °C	Humidity:	46.5 % RH	Atmospheric Pressure:	1023	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



Ground Reference Plane

7.5.4 Measurement Procedure and Data

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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 Page: 24 of 98

7.6 Dwell Time

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

Frequency(MHz)	Limit
000.000	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

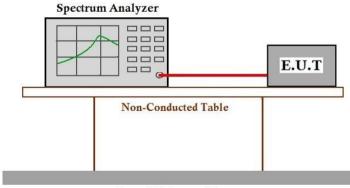
7.6.1 E.U.T. Operation

Operating Enviror	nment:					
Temperature:	20.9 °C	Humidity:	46.5 % RH	Atmospheric Pressure:	1023	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

7.6.4 Measurement Procedure and Data

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Report No.: GZCR230100007702 Page: 25 of 98

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).

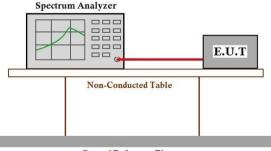
7.7.1 E.U.T. Operation

Operating Enviro	onment:				
Temperature:	20.9 °C	Humidity:	46.5 % RH	Atmospheric Pressure: 1023	mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	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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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 Page: 26 of 98

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).

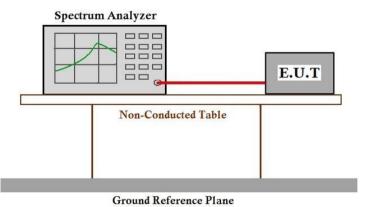
7.8.1 E.U.T. Operation

Operating Environment:							
Temperature:	20.9 °C	Humidity:	46.5 % RH	A	Atmospheric Pressure:	1023	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



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: GZCR230100007702 27 of 98 Page:

7.9 Radiated Emissions which fall in the restricted bands

3 m

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

Test Distance:

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 Enviror	nment:					
Temperature:	17.7 °C	Humidity:	43.2 % RH	Atmospheric Pressure:	1023	mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
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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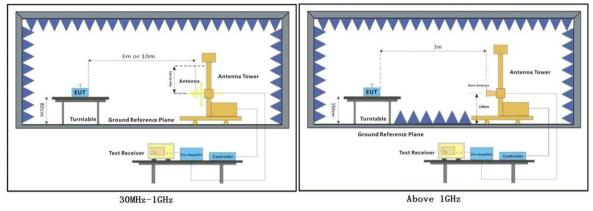
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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 Page: 28 of 98

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

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

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

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

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

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

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

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

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



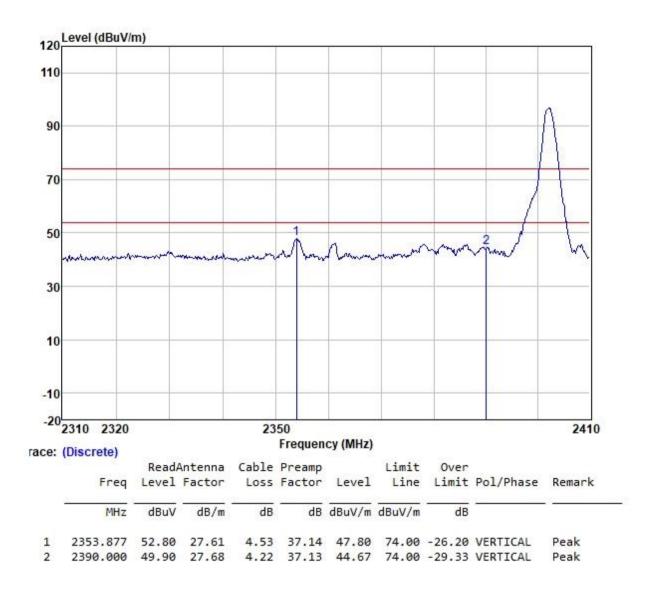
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EMC-TRF-01 Rev 1.1 Report No.: GZCR230100007702 29 of 98 Page:

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





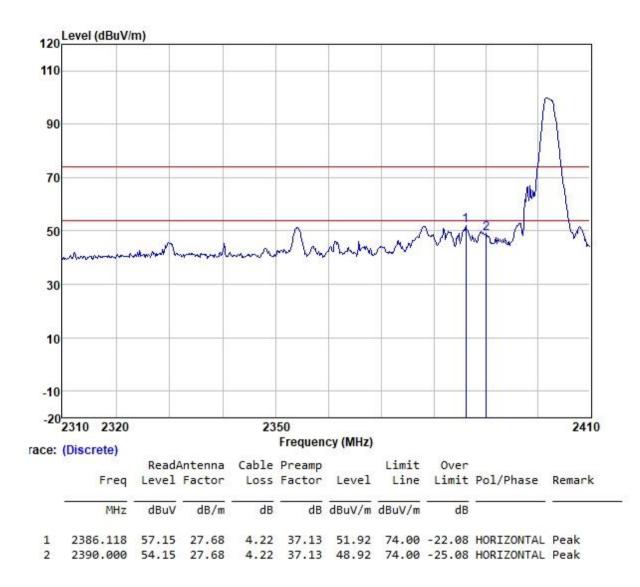
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EMC-TRF-01 Rev 1.1 Report No.: GZCR230100007702 30 of 98 Page:

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





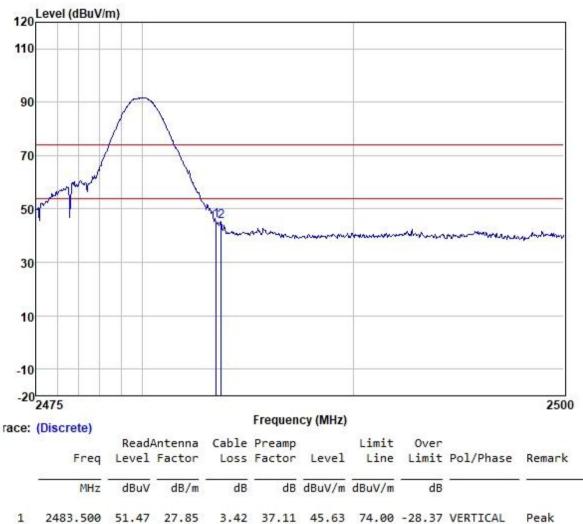
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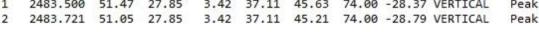
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EMC-TRF-01 Rev 1.1 Report No.: GZCR230100007702 31 of 98 Page:

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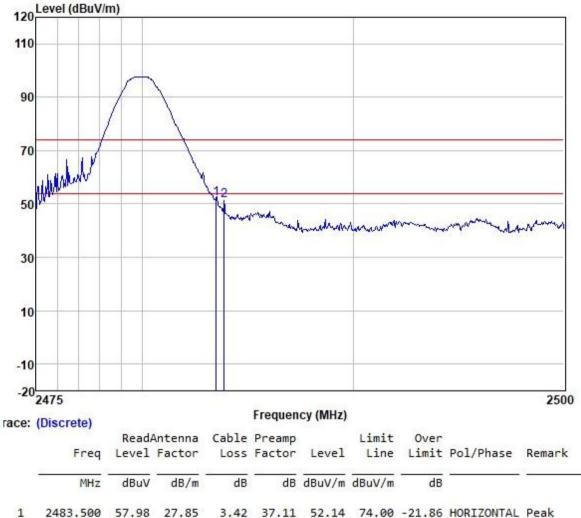
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EMC-TRF-01 Rev 1.1 Report No.: GZCR230100007702 32 of 98 Page:

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3.42 37.11 51.25 74.00 -22.75 HORIZONTAL Peak 2 2483.871 57.09 27.85



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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 Page: 33 of 98

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
1.1	

Limit:

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

7.10.1 E.U.T. Operation

Operating Enviro	onment:				
Temperature:	21.3 °C	Humidity:	56.3 % RH	Atmospheric Pressure: 1023	mbar

7.10.2 Test Mode Description

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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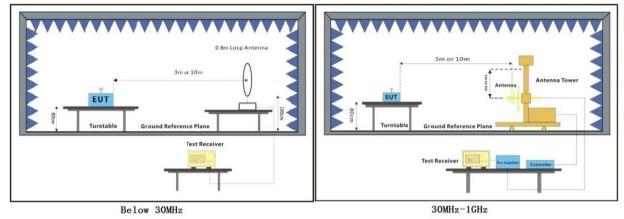
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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 Page: 34 of 98

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

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

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

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

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

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

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

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

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

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

Remark:

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

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

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



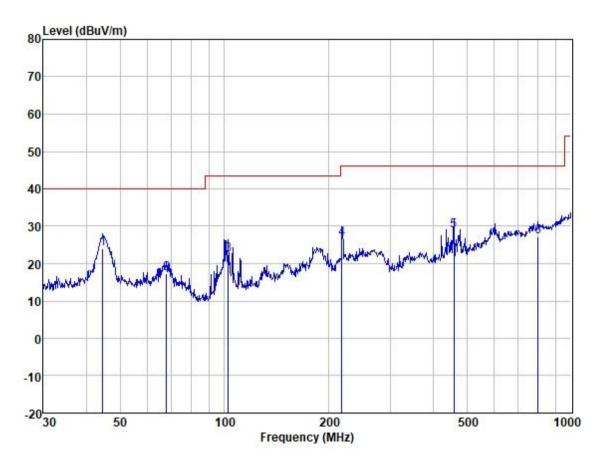
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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 Page: 35 of 98



Test Mode: 01; Polarity: Horizontal

Site	: SGS
Job	:
Model	:
Power	:
Test Mode	: CHARGING

	Freq				CONTRACTOR STOCKED IN S	Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	44.587	36.56	13.88	1.11	27.61	23.94	40.00	-16.06	HORIZONTAL	QP
2	67.913	31.49	12.06	1.39	27.60	17.34	40.00	-22.66	HORIZONTAL	QP
3	102.360	38.85	9.42	1.71	27.60	22.38	43.50	-21.12	HORIZONTAL	QP
4	218.309	41.36	10.02	2.64	27.29	26.73	46.00	-19.27	HORIZONTAL	QP
5	459.114	35.74	17.10	4.25	28.42	28.67	46.00	-17.33	HORIZONTAL	QP
6	801.786	26.87	22.88	6.04	28.59	27.20	46.00	-18.80	HORIZONTAL	QP



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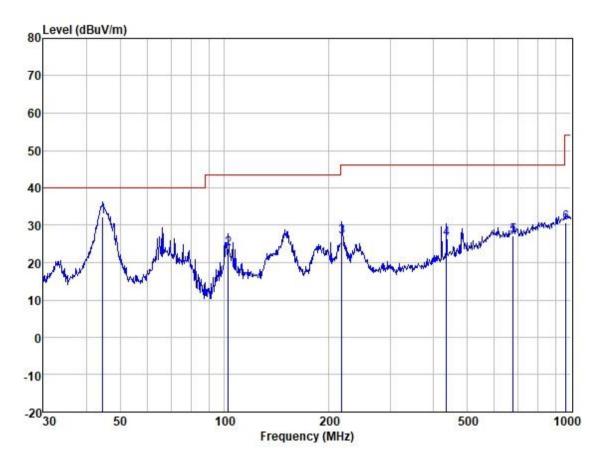
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EMC-TRF-01 Rev 1.1 Report No.: GZCR230100007702 Page: 36 of 98



Test Mode: 01; Polarity: Vertical

Site	: SGS
Job	:
Model	:
Power	:
Test Mode	: CHARGING

	Freq					Measured Level				Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	44.587	44.89	13.88	1.11	27.61	32.27	40.00	-7.73	VERTICAL	QP
2	102.360	40.08	9.42	1.71	27.60	23.61	43.50	-19.89	VERTICAL	QP
3	218.309	41.59	10.02	2.64	27.29	26.96	46.00	-19.04	VERTICAL	QP
4	437.120	33.76	16.70	4.11	28.19	26.38	46.00	-19.62	VERTICAL	QP
5	679.960	29.33	21.05	5.43	28.71	27.10	46.00	-18.90	VERTICAL	QP
6	965.542	27.53	24.36	6.90	28.05	30.74	54.00	-23.26	VERTICAL	QP



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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 37 of 98 Page:

7.11 Radiated Spurious Emissions Above 1GHz

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

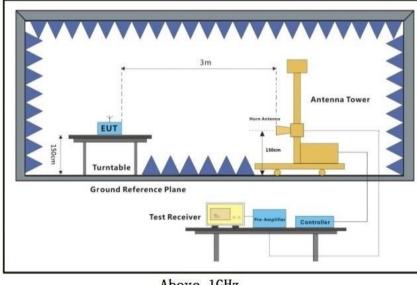
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.11.1 E.U.T. Operation

Operating Enviror	iment:					
Temperature:	17.7 °C	Humidity:	43.2 % RH	Atmospheric Pressure:	1023	mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
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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EMC-TRF-01 Rev 1.1 Report No.: GZCR230100007702 38 of 98 Page:

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.



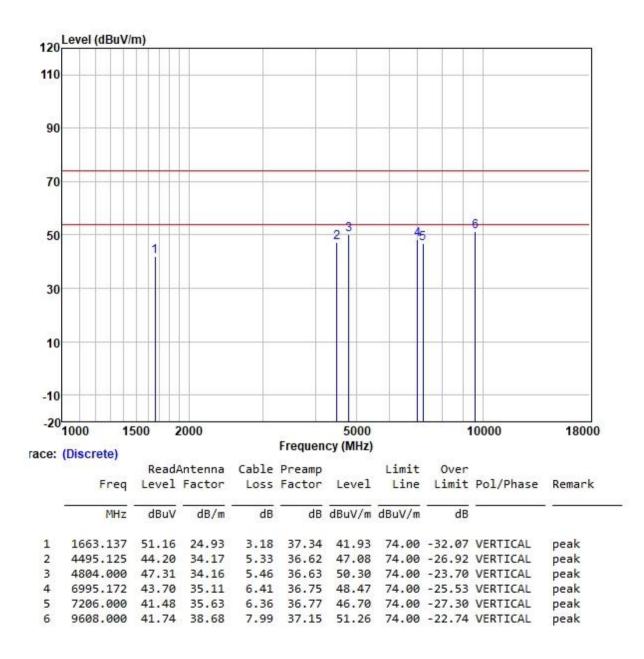
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EMC-TRF-01 Rev 1.1 Report No.: GZCR230100007702 Page: 39 of 98

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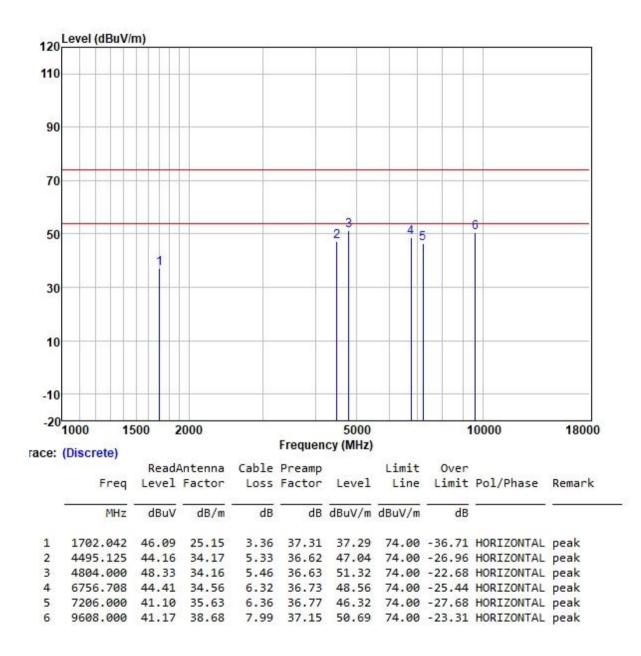
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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 Page: 40 of 98

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



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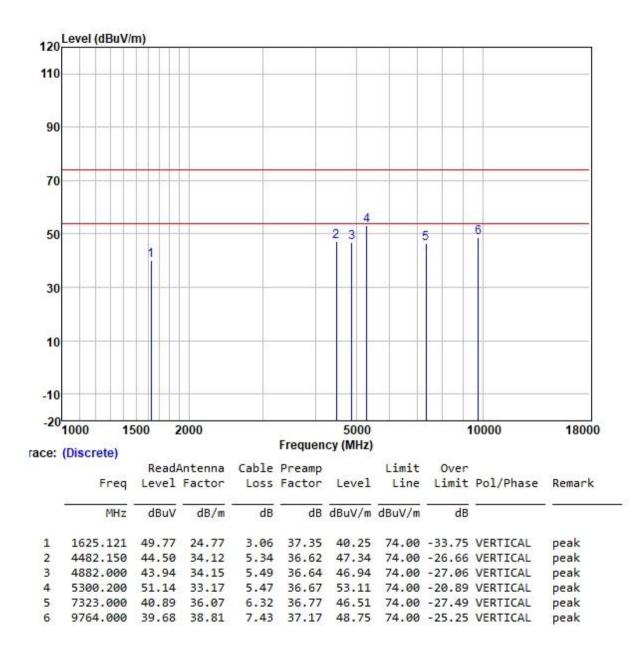
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EMC-TRF-01 Rev 1.1 Report No.: GZCR230100007702 Page: 41 of 98

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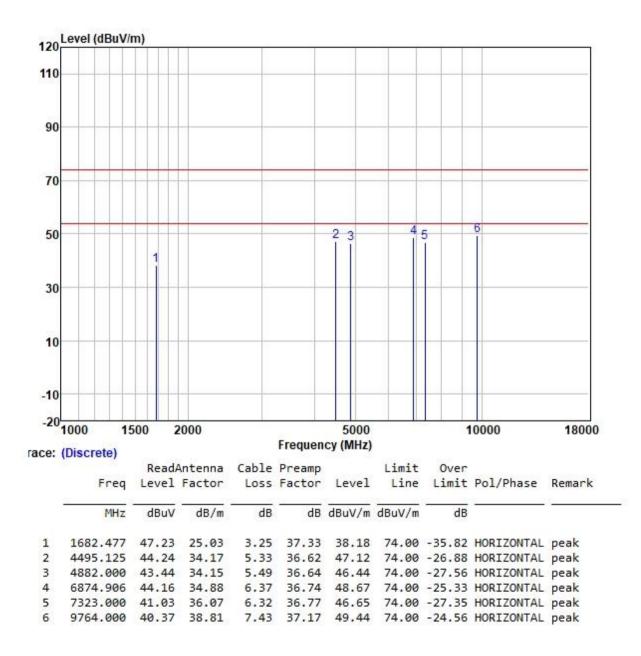
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EMC-TRF-01 Rev 1.1 Report No.: GZCR230100007702 Page: 42 of 98

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



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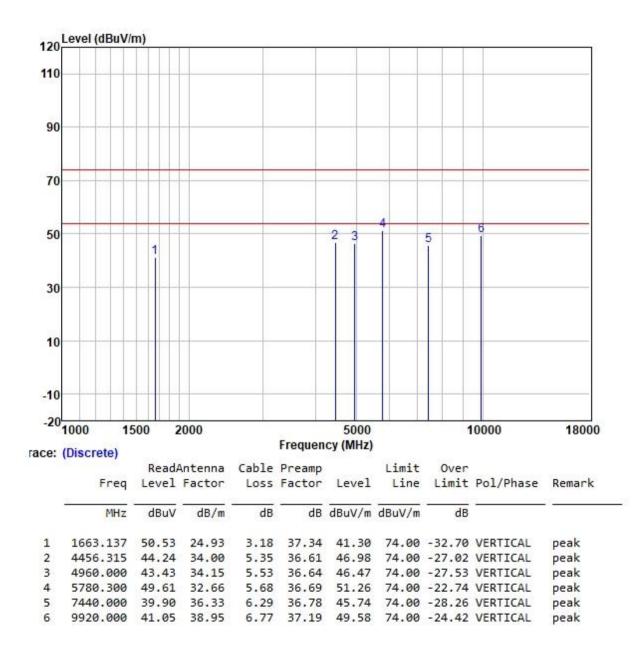
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EMC-TRF-01 Rev 1.1 Report No.: GZCR230100007702 Page: 43 of 98

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





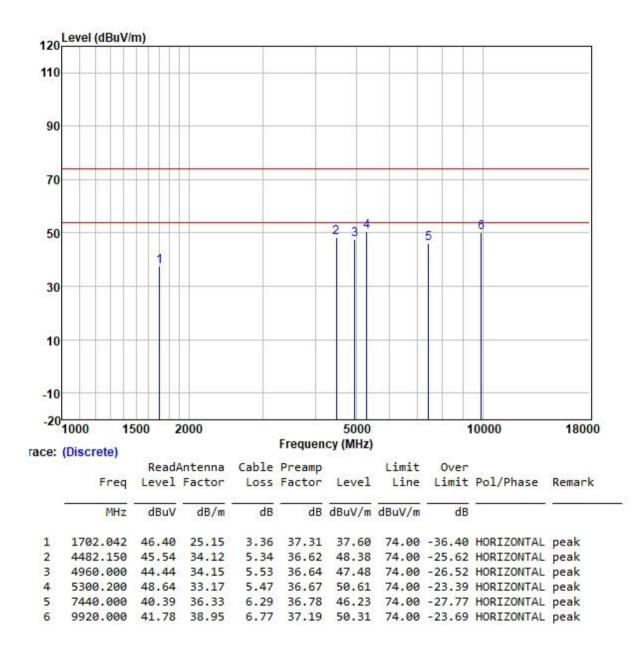
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



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Test Setup Photo 8

Refer to Setup Photos for GZCR230100007702



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Report No.: GZCR230100007702 Page: 46 of 98

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for GZCR2301000077AT



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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 Page: 47 of 98

10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

	Ant1									
Mode	ТХ Туре	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)		
		2402	DH5	2.942	3.749	78.47	1.05	0.03		
GFSK	SISO	2441	DH5	2.891	3.749	77.11	1.13	0.03		
		2480	DH5	2.943	3.750	78.48	1.05	0.03		
	SISO	2402	2DH5	2.949	3.749	78.66	1.04	0.03		
Pi/4DQPSK		DQPSK SISO	2441	2DH5	2.949	3.749	78.66	1.04	0.03	
		2480	2DH5	2.949	3.750	78.64	1.04	0.03		
		2402	3DH5	2.951	3.751	78.67	1.04	0.04		
8DPSK	SISO	2441	3DH5	2.951	3.751	78.67	1.04	0.03		
		2480	3DH5	2.951	3.751	78.67	1.04	0.03		



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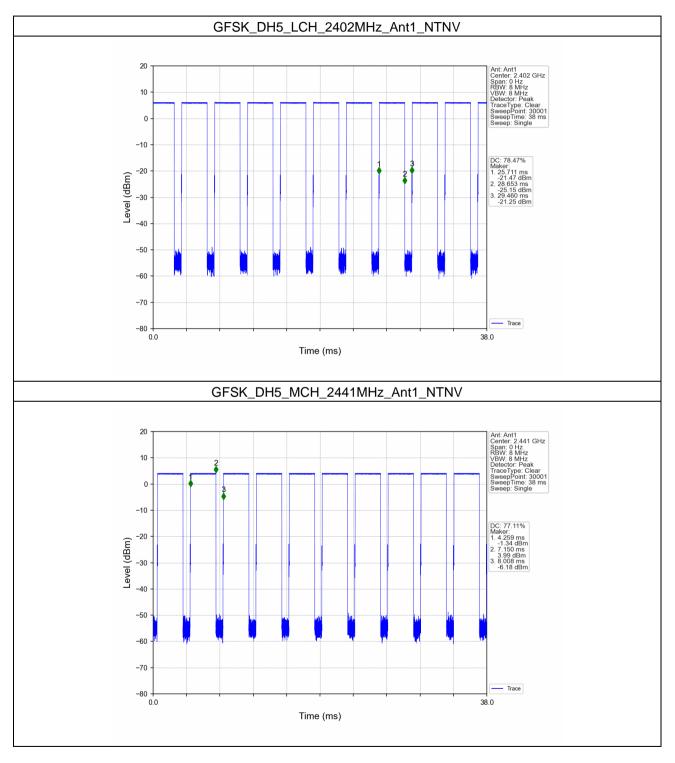
1.1.2 Test Graph

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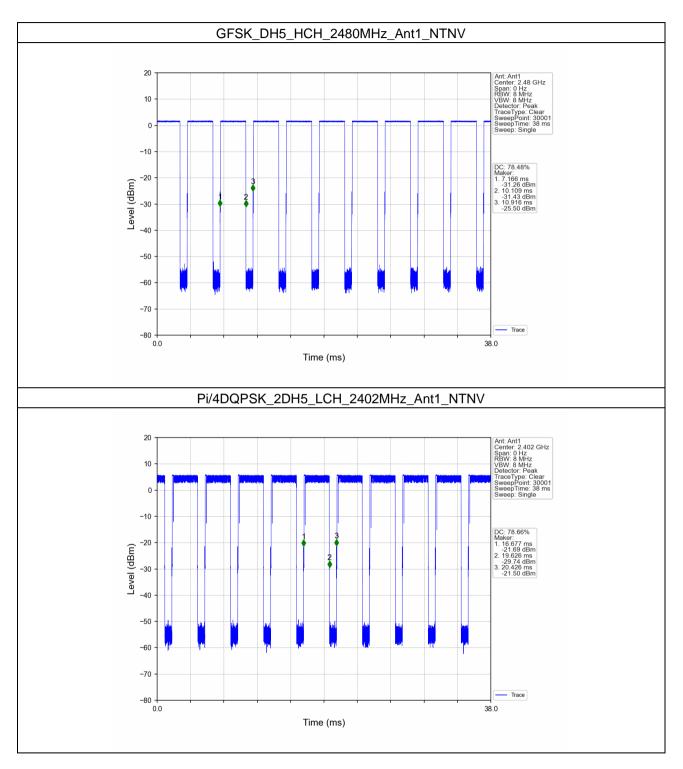
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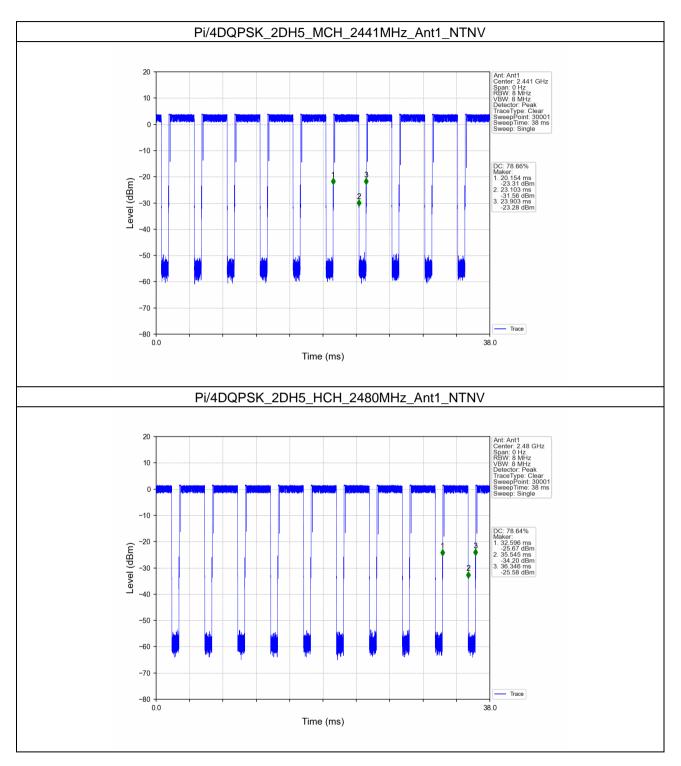
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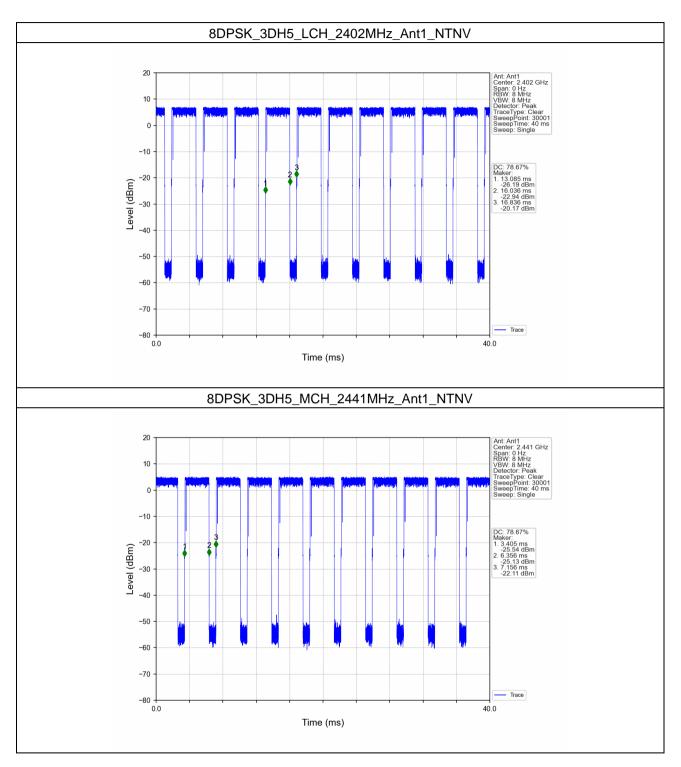
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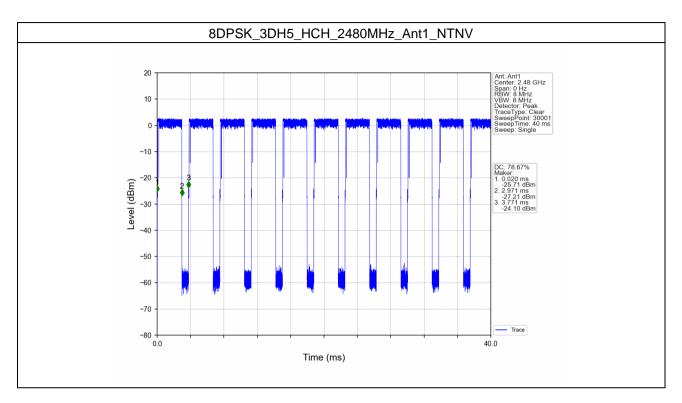
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Report No.: GZCR230100007702 Page: 53 of 98

2. Bandwidth

2.1 20dB BW

2.1.1 Test Result

Mode	ТΧ	Frequency	Packet	ANT	20dB Bandwidth (MHz)	Verdict	
IVIOde	Туре		Туре	ANT	Result	verdict	
		2402	DH5	1	0.994	Pass	
GFSK	SISO	2441	DH5	1	0.995	Pass	
		2480	DH5	1	0.992	Pass	
	SISO	2402	2DH5	1	1.321	Pass	
Pi/4DQPSK		2441	2DH5	1	1.332	Pass	
		2480	2DH5	1	1.327	Pass	
8DPSK	SISO	2402	3DH5	1	1.342	Pass	
		2441	3DH5	1	1.326	Pass	
		2480	3DH5	1	1.324	Pass	



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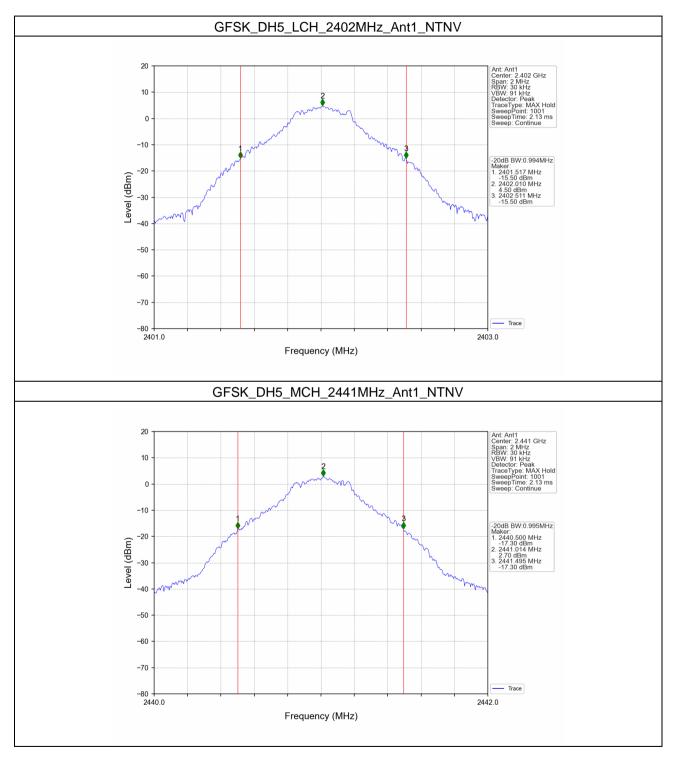
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2.1.2 Test Graph





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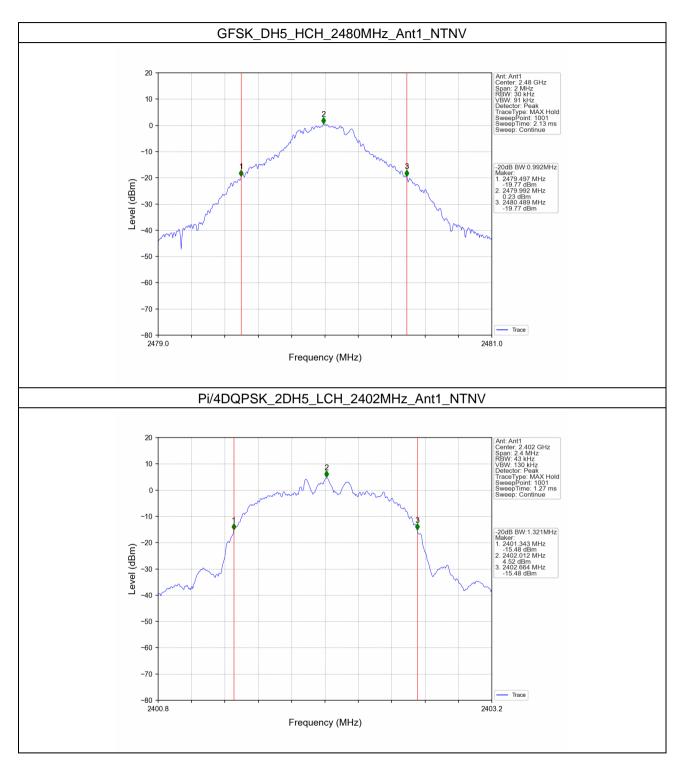
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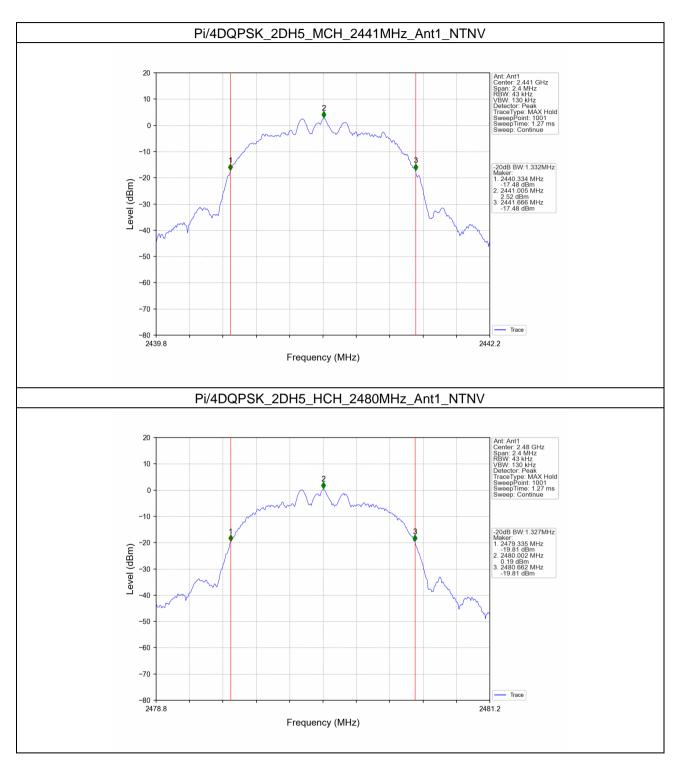
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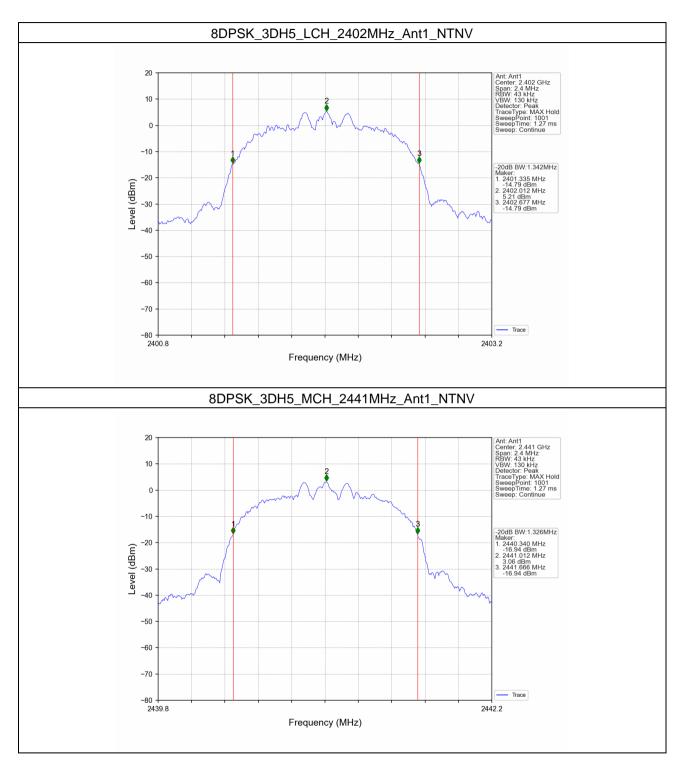
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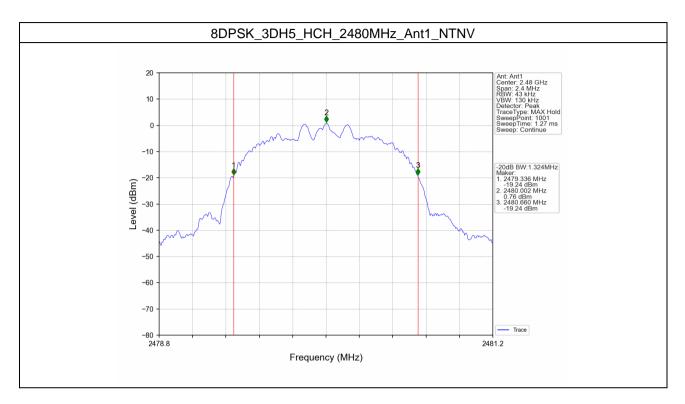
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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 Page: 59 of 98

3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode TX		Frequency	Packet	Maximum Peak Conduc	Verdict	
wode	Туре	(MHz)	Туре	ANT1	Limit	verdict
		2402	DH5	6.06	<=30	Pass
GFSK	SISO	2441	DH5	4.04	<=30	Pass
		2480	DH5	1.64	<=30	Pass
	SISO	2402	2DH5	5.81	<=20.97	Pass
Pi/4DQPSK		2441	2DH5	3.89	<=20.97	Pass
		2480	2DH5	1.55	<=20.97	Pass
		2402	3DH5	6.83	<=20.97	Pass
8DPSK	SISO	2441	3DH5	4.93	<=20.97	Pass
		2480	3DH5	2.55	<=20.97	Pass
Note1: Anter	na Gain:	Ant1: 3.26 dBi	;			



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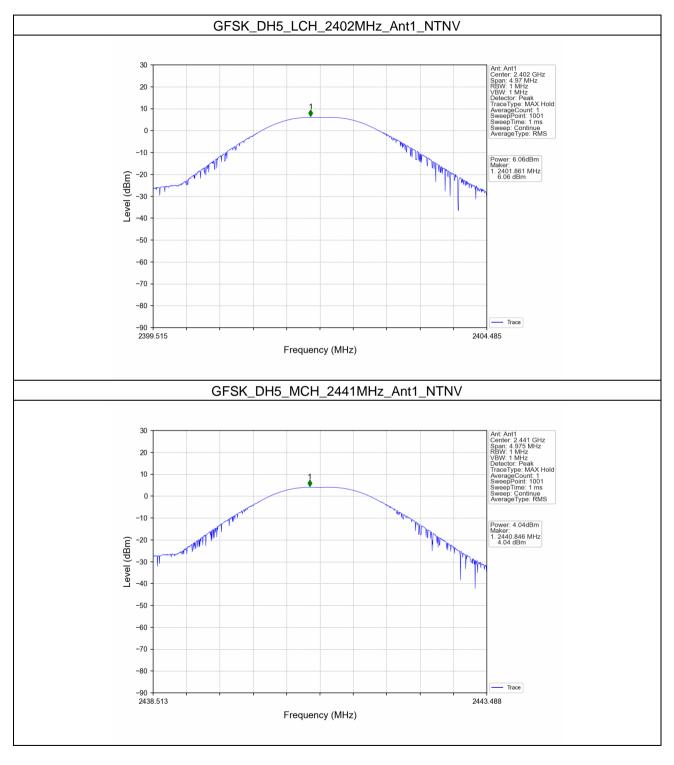
3.1.2 Test Graph

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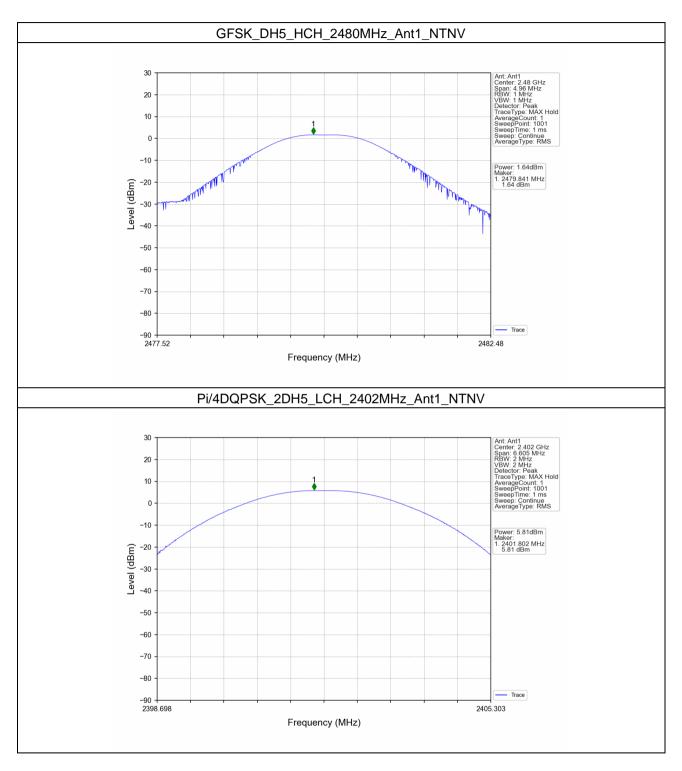
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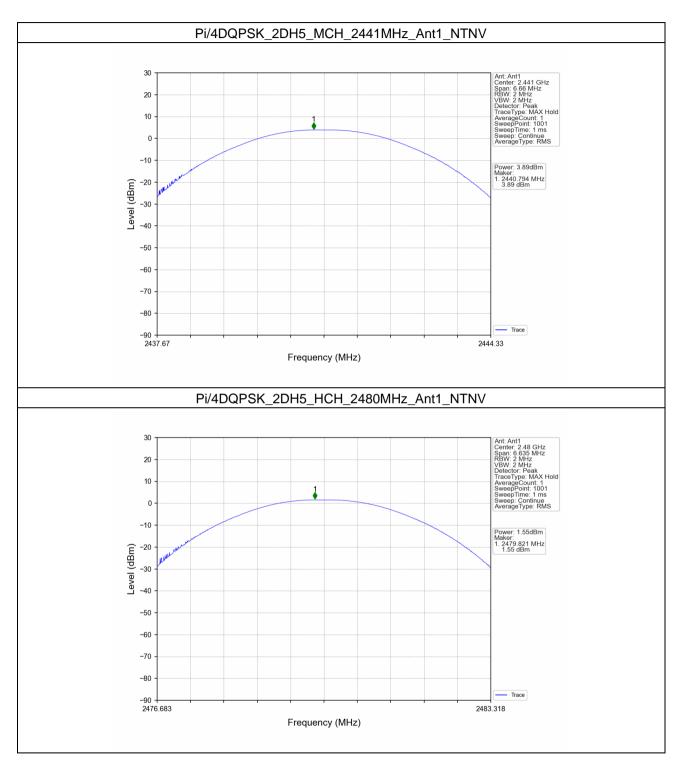
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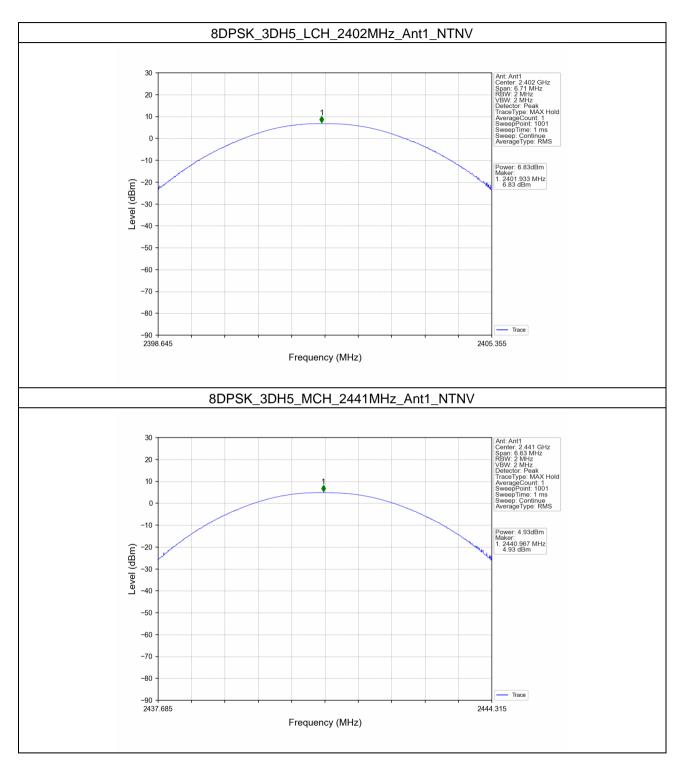
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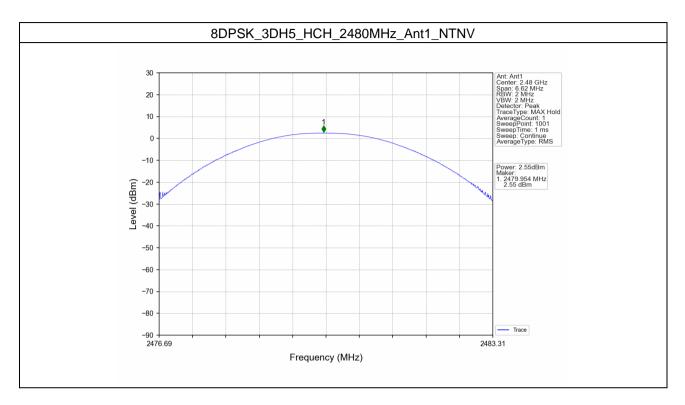
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Report No.: GZCR230100007702 Page: 65 of 98

4. Carrier Frequency Separation

4.1 Ant1

4.1.1 Test Result

Ant1									
Mode	ТХ Туре	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict		
GFSK	SISO	HOPP	DH5	1.000	0.995	>=0.995	Pass		
Pi/4DQPSK	SISO	HOPP	2DH5	0.996	1.332	>=0.888	Pass		
8DPSK	SISO	HOPP	3DH5	1.001	1.342	>=0.895	Pass		



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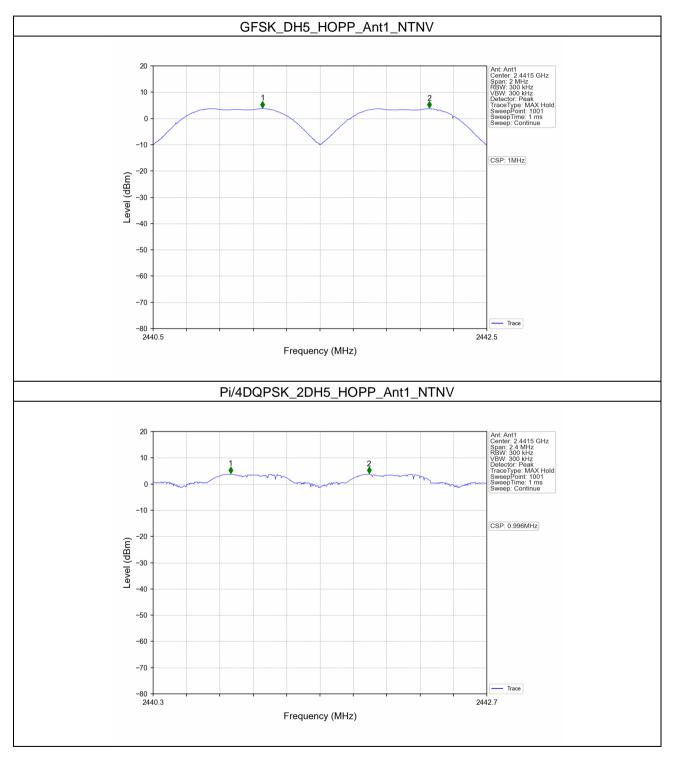
4.1.2 Test Graph

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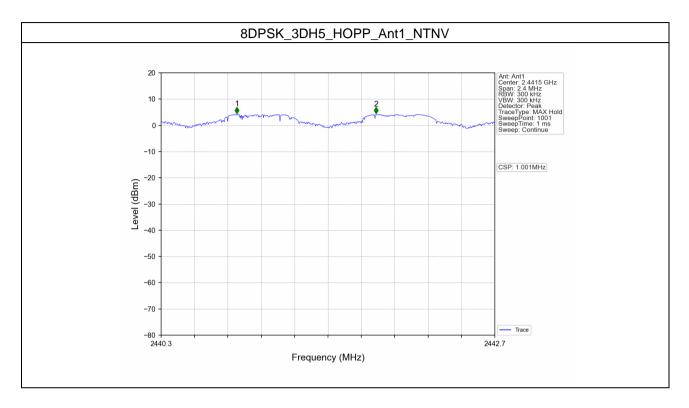
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5. Number of Hopping Frequencies

5.1 HoppNum

5.1.1 Test Result

Mode	ТΧ	Frequency	Packet	Num of Hoppir	Verdict	
	Type (MHz)		Туре	ANT1		
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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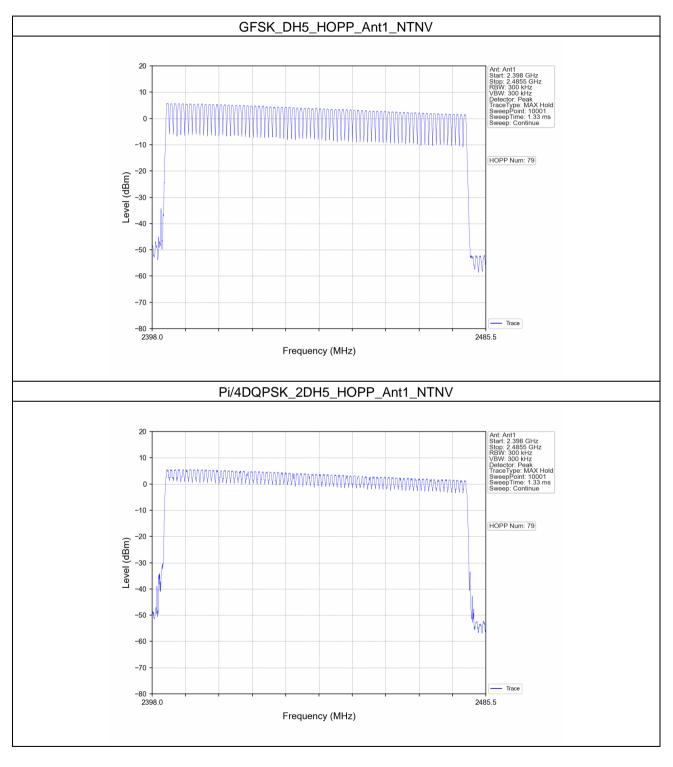
5.1.2 Test Graph

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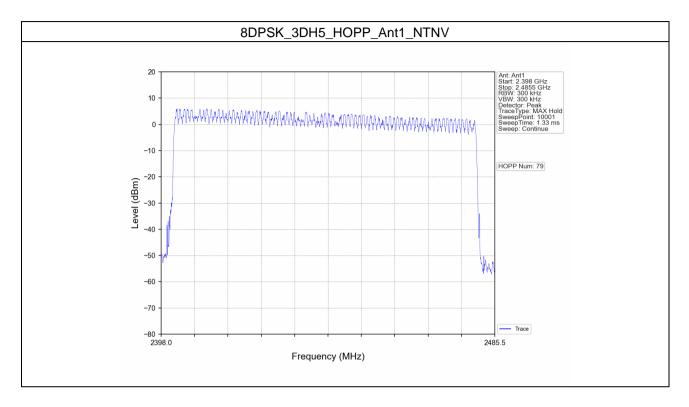
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EMC-TRF-01 Rev 1.1

Report No.: GZCR230100007702 Page: 71 of 98

6. Time of Occupancy (Dwell Time)

6.1 Ant1

6.1.1 Test Result

	Ant1										
Mode	ТХ Туре	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict		
	GFSK SISO HOPP		DH1	0.434	31.600	314	136.276	<=400	Pass		
GFSK		HOPP	DH3	1.698	31.600	172	292.056	<=400	Pass		
			DH5	2.944	31.600	106	312.064	<=400	Pass		
		SO HOPP	2DH1	0.450	31.600	314	141.300	<=400	Pass		
Pi/4DQPSK	SISO		2DH3	1.642	31.600	173	284.066	<=400	Pass		
			2DH5	2.952	31.600	104	307.008	<=400	Pass		
8DPSK SISO		3DH1	0.392	31.600	314	123.088	<=400	Pass			
	SISO	HOPP	3DH3	1.642	31.600	173	284.066	<=400	Pass		
			3DH5	2.954	31.600	99	292.446	<=400	Pass		



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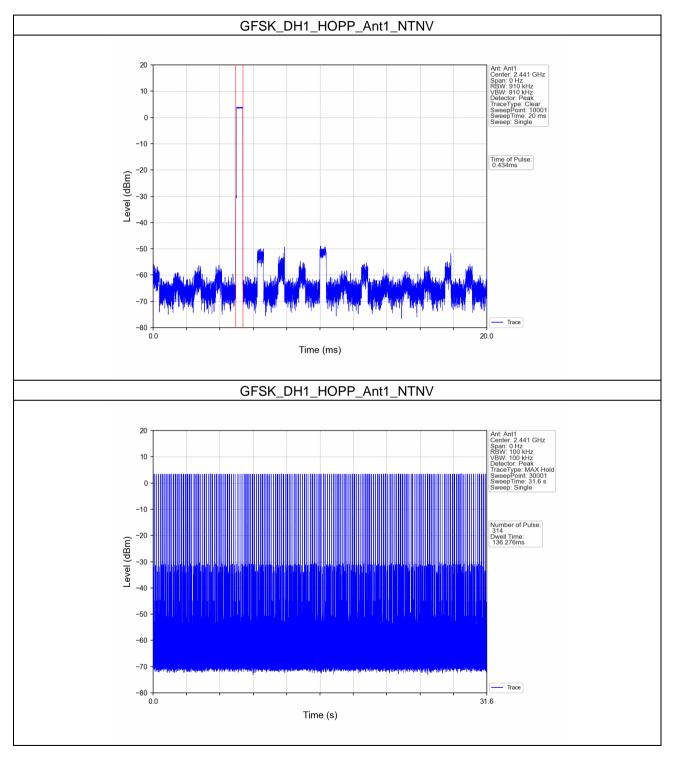
6.1.2 Test Graph

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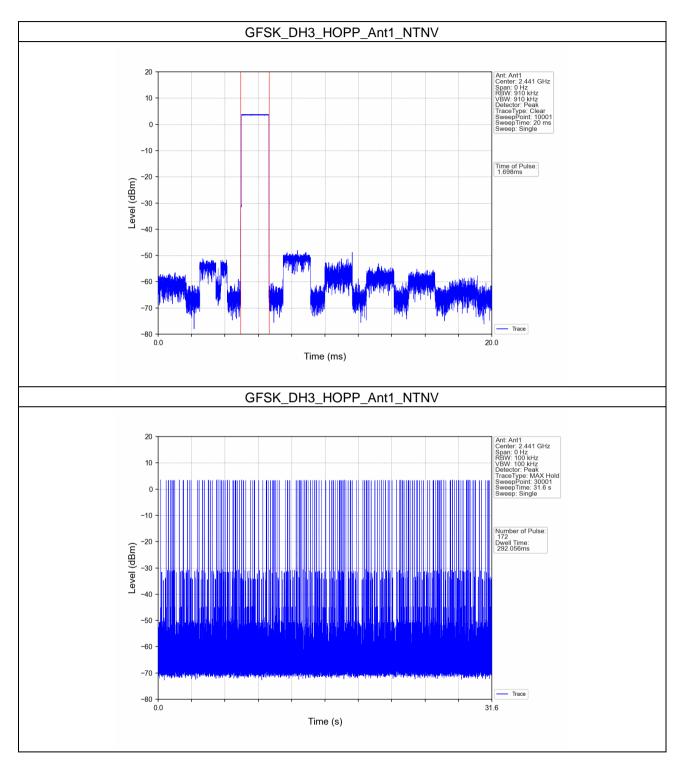
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EMC-TRF-01 Rev 1.1 Report No.: GZCR230100007702 Page: 73 of 98





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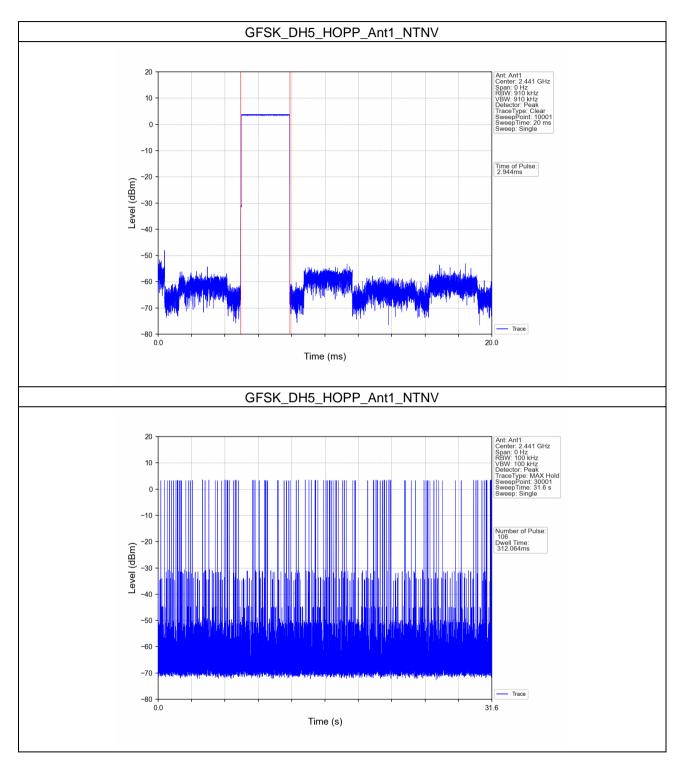
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EMC-TRF-01 Rev 1.1 Report No.: GZCR230100007702 Page: 74 of 98





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