

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091203

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# TEST REPORT

Application No.: SZCR2304000912AT

Applicant: KanDao Technology Co., Ltd.

Address of Applicant: 503, Building 1, Dayun Soft Parts Town, 8288 Longgang Avenue, Yuanshan

Street, Longgang District, Shenzhen, China

Manufacturer: KanDao Technology Co., Ltd.

Address of Manufacturer: 503, Building 1, Dayun Soft Parts Town, 8288 Longgang Avenue, Yuanshan

Street, Longgang District, Shenzhen, China

Factory: L Lab Corporation(Hui Zhou) Limited

Address of Factory: West Wing, 2/F, Factory Building A, No.13 of JinDa Road, HuiNan High-

Tech industrial Park Hui'Ao Avenue, HuiZhou City, GuangDong Province,

P.R.China

**Equipment Under Test (EUT):** 

**EUT Name:** Kandao Meeting Ultra

Kandao Meeting Ultra Standard

**Model No.:** MT1001, MT1002

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

actual tested and which were electrically identical.

Trade Mark: KanDao FCC ID: 2ATPV-KDUL

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

**Date of Receipt:** 2023-04-03

**Date of Test:** 2023-04-07 to 2023-04-18

**Date of Issue:** 2023-04-24

Test Result: Pass\*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2023-04-24		Original			

Authorized for issue by:		
	(eo-li	
	Leo Li/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	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass		

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass	
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass	
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass	
Power Spectrum  Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass	
Conducted Band Edges Measurement	47 CFR Part 15,	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Conducted Spurious Emissions	Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	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	

#### **Declaration of EUT Family Grouping:**

Model No.: MT1001, MT1002

Only the model MT1001 was tested fully, and the model MT1002 was performed the Radiated Spurious Emissions Below 1GHz test for discrepancy. Since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on model MT1001 has a touch display and model MT1002 doesn't.



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## **General Information**

## Details of E.U.T.

Power supply:	DC 15V from adapter input AC 120V/60Hz
	Adapter Model: ADT-65NS-D00
	Input: 100-240V~1.6A 50/60Hz
	Output: 5.0V =3.0A 15.0W or 9.0V =3.0A 27.0W or 12.0V =5.0A 60.0W or 15.0V =4.33 A 64.95W or 20.0V =3.25A 65.0W
	PoE 44~58V =1A(IEEE802.3bt)
	3V DC (1.5Vx2"AAA" Size Batteries) for remote controller
Cable(s):	USB-C cable: 150cm shielded
	Adapter AC cable: 150cm unshielded
	Adapter DC cable: 180cm shielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 Dual mode
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	FPC Antenna
Antenna Gain:	ANT 1: 3.65dBi

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## 4.2 Description of Support Units

Description	Manufacturer	Manufacturer Model No.				
The EUT has been tested as an independent unit.						

## 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.0dB (150kHz to 30MHz)
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 4.5dB
Radiated Spurious Emissions Above 1GHz	± 4.8dB

### Remark:

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

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



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#### 4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

## 4.5 Test Facility

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

## • A2LA (Certificate No. 3816.01)

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

### VCCI (Member No. 1937)

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

### • FCC -Designation Number: CN1336

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

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

## • Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

## 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None



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#### **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	ESCI	SEM004-02	2023-03-20	2024-03-19	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2022-07-08	2023-07-07	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2022-09-20	2023-09-19	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19	

Conducted Peak Output Power						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30	

Minimum 6dB Bandwidt	:h				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30



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Power Spectrum Density							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20		
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30		

Conducted Band Edges Measurement							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20		
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30		

Conducted Spurious Emissions							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20		
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30		



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Radiated Emissions which fall in the restricted bands							
Equipment	Manufacturer	Model No.	Model No. Inventory No.		Cal Due Date		
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01		
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19		
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23		
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07		
Broad-Band Horn Antenna	Schwarzbeck		SEM003-15	2022-08-10	2024-08-09		
Pre-Amplifier	Pre-Amplifier Compliance Directions Systems Inc.		SEM005-08	2023-03-20	2024-03-19		

Radiated Spurious Emissions Below 1GHz							
Equipment	Equipment Manufacturer		Inventory No.	Cal Date	Cal Due Date		
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29		
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18		
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2022-10-20	2023-10-19		
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2021-09-17	2023-09-16		
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19		
Measurement Software	Measurement Software AUDIX		ment Software AUDIX e3 V8.2014-6-		N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2022-07-08	2023-07-07		



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Radiated Spurious Emissions Above 1GHz							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01		
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19		
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23		
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07		

General used equipment							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2022-09-04	2023-09-03		
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022-09-04	2023-09-03		
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22		



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#### **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 ANT 1: 3.65dBi

Antenna location: Refer to internal photo.



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# **Radio Spectrum Matter Test Results**

## 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 (MIII)	Conducted limit(dBµV)				
Frequency of emission(MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			
*Decreases with the logarithm of the frequency.					
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz					

#### 7.1.1 E.U.T. Operation

Operating Environment:

23.2 °C Temperature: Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

#### 7.1.2 Test Mode Description

7.1.2 Test mode besorption						
Pre-scan / Final test	Mode Code	Description				
Pre-scan	24	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.				
Final test	25	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.				



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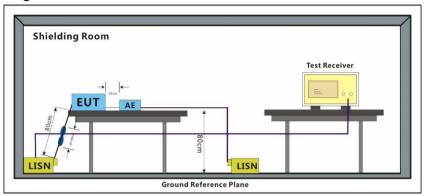


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## 7.1.3 Test Setup Diagram



#### 7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark 1: Level=Read Level+ Cable Loss+ LISN Factor

Remark 2: all models have been tested and only the worst case of MT1001 was recorded in this report.



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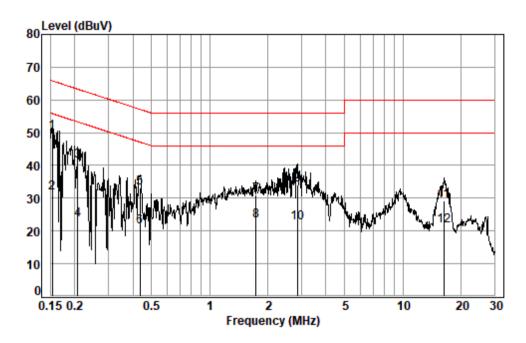


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Test Mode: 25; Line: Live line



: Shielding Room

Condition: Line Job No. : 00912AT

Test mode: 25

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1532	0.03	0.63	10 E0	50.24	6E 92	15 50	OD
1 *	0.1552	0.05	9.63	40.58	30.24	05.02	-15.58	٧٢
2	0.1532	0.03	9.63	21.90	31.56	55.82	-24.26	Average
3	0.2072	0.04	9.62	31.70	41.36	63.32	-21.96	QP
4	0.2072	0.04	9.62	13.78	23.44	53.32	-29.88	Average
5	0.4351	0.05	9.62	23.34	33.01	57.15	-24.14	QP
6	0.4351	0.05	9.62	11.67	21.34	47.15	-25.81	Average
7	1.7437	0.10	9.64	21.19	30.93	56.00	-25.07	QP
8 *	1.7437	0.10	9.64	13.26	23.00	46.00	-23.00	Average
9	2.8692	0.12	9.65	24.16	33.93	56.00	-22.07	QP
10	2.8692	0.12	9.65	12.88	22.65	46.00	-23.35	Average
11	16.3118	0.18	9.87	19.28	29.33	60.00	-30.67	QP
12	16.3118	0.18	9.87	11.59	21.64	50.00	-28.36	Average



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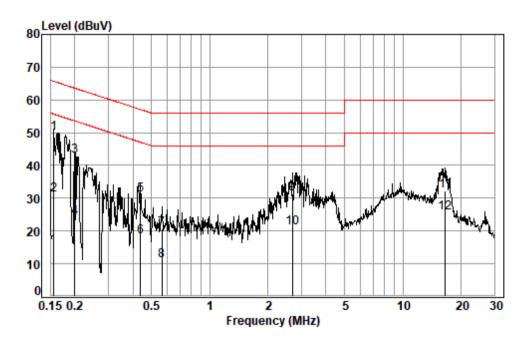


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Test Mode: 25; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 00912AT

Test mode: 25

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
-								
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1565	0.03	9.62	40.16	49.81	65.65	-15.84	OP
2	0.1565	0.03	9.62	21.26	30.91			Average
3	0.2007	0.04	9.62	33.14	42.80		-20.78	_
4	0.2007	0.04	9.62	14.49	24.15			Average
5	0.4374	0.05	9.62	21.43	31.10	57.11	-26.01	QP
6	0.4374	0.05	9.62	8.53	18.20	47.11	-28.91	Average
7	0.5671	0.06	9.62	11.09	20.77	56.00	-35.23	QP
8	0.5671	0.06	9.62	1.30	10.98	46.00	-35.02	Average
9	2.6783	0.12	9.64	21.55	31.31	56.00	-24.69	QP
10	2.6783	0.12	9.64	11.27	21.03	46.00	-24.97	Average
11	16.5732	0.19	10.00	21.91	32.10	60.00	-27.90	QP
12 *	16.5732	0.19	10.00	15.39	25.58	50.00	-24.42	Average



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## 7.2 Conducted Peak Output Power

47 CFR Part 15, Subpart C 15.247(b)(3) Test Requirement Test Method: ANSI C63.10 (2013) Section 11.9.1

#### Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

## 7.2.1 E.U.T. Operation

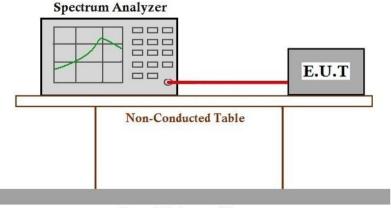
Operating Environment:

Temperature: 23.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1015 mbar

#### 7.2.2 Test Mode Description

7.2.2 103010	ouc Dc.	soription
Pre-scan / Final test	Mode Code	Description
Final test	24	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	25	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

## 7.2.3 Test Setup Diagram



Ground Reference Plane



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#### 7.2.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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## 7.3 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2) ANSI C63.10 (2013) Section 11.8.1 Test Method:

Limit:

≥500 kHz

## 7.3.1 E.U.T. Operation

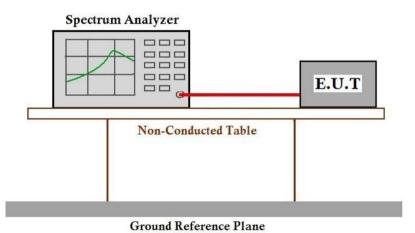
**Operating Environment:** 

Temperature: 23.5 °C Humidity: 53.2 % RH Atmospheric Pressure: 1015 mbar

#### 7.3.2 Test Mode Description

		•
Pre-scan / Final test	Mode Code	Description
Final test	24	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	25	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

## 7.3.3 Test Setup Diagram



#### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 7.4 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e) Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

## 7.4.1 E.U.T. Operation

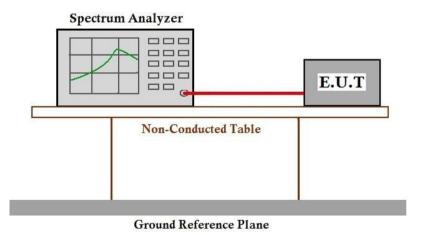
Operating Environment:

23.2 °C Temperature: Humidity: 53.5 % RH Atmospheric Pressure: 1015 mbar

## 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	24	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	25	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

## 7.4.3 Test Setup Diagram



## 7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 7.5 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.13.3.2

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).

## 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1015 mbar



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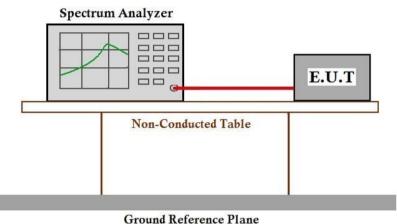
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### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	24	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	25	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

### 7.5.3 Test Setup Diagram



## 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 7.6 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15. Subpart C 15.247(d) ANSI C63.10 (2013) Section 11.11 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).

## 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Atmospheric Pressure: 1015 mbar Humidity: 53.5 % RH

#### 7.6.2 Test Mode Description

7.0.2 1000	ouc Dc.	soription
Pre-scan / Final test	Mode Code	Description
Final test	24	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	25	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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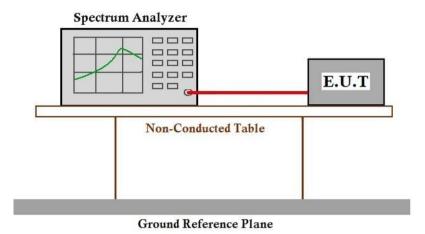


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## 7.6.3 Test Setup Diagram



## 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.7 Radiated Emissions which fall in the restricted bands

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

Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

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

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



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## 7.7.1 E.U.T. Operation

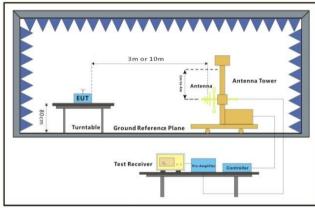
**Operating Environment:** 

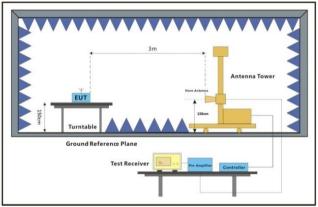
Temperature: 20.8 °C Humidity: 56.3 % RH Atmospheric Pressure: 1015 mbar

#### 7.7.2 Test Mode Description

The rest media Bessi puter.										
Pre-scan / Final test	Mode Code	Description								
Final test	24	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								
Final test	25	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								

### 7.7.3 Test Setup Diagram





30MHz-1GHz Above 1GHz



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#### 7.7.4 Measurement Procedure and Data

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

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

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



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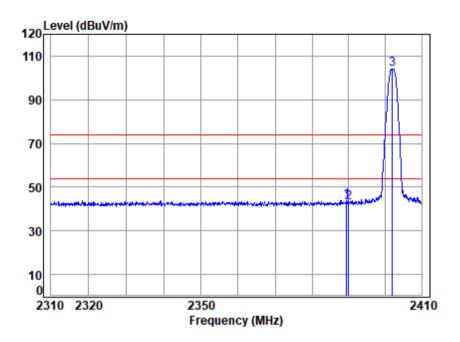


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Test Mode: 24; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2402 Band edge

Note : BLE

		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	2389.457	4.25	28.76	35.64	46.58	43.95	74.00	-30.05	peak	
2	2390.000	4.25	28.76	35.64	45.30	42.67	74.00	-31.33	peak	
3 a	2402.000	4.26	28.81	35.64	106.69	104.12	74.00	30.12	peak	



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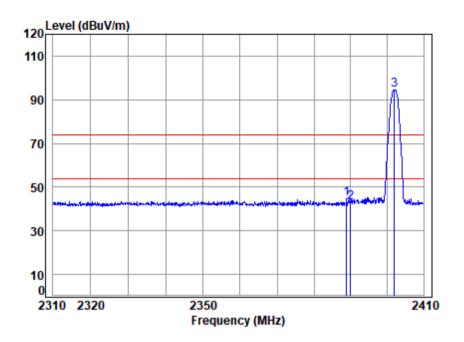


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Test Mode: 24; Polarity: Vertical; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2402 Band edge

Note : BLE

> 1 2 3

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	d Bu V/m	dB		
	2388.850	4.25	28.76	35.64	47.14	44.51	74.00	-29.49	peak	
	2390.000	4.25	28.76	35.64	45.54	42.91	74.00	-31.09	peak	
q	2402.000	4.26	28.81	35.64	97.22	94.65	74.00	20.65	peak	



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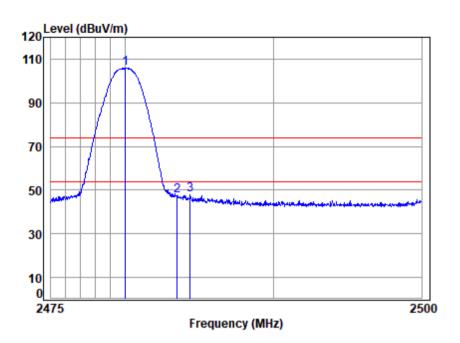


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Report No.: SZCR230400091203

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Test Mode: 24; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2480 Band edge

Note : BLE

> 1 2 3

Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
q 2480.000								•
2483.500								•



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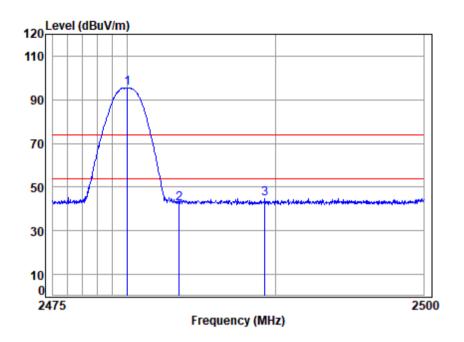


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Test Mode: 24; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2480 Band edge

Note : BLE

		<b>5</b>			Preamp					Damanla	
		Freq	LOSS	Factor	Factor	revel	rever	Line	Limit	Kemark	
	_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	q	2480.000	4.34	29.28	35.61	97.43	95.44	74.00	21.44	peak	
2		2483.500	4.34	29.30	35.61	44.54	42.57	74.00	-31.43	peak	
3		2489.269	4.35	29.34	35.61	46.75	44.83	74.00	-29.17	peak	



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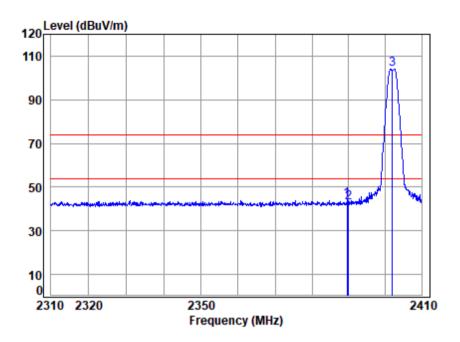


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Test Mode: 25; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2402 Band edge

Note : BLE

		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	2389.558	4.25	28.76	35.64	46.91	44.28	74.00	-29.72	peak	
2	2390.000	4.25	28.76	35.64	45.55	42.92	74.00	-31.08	peak	
3	q 2402.000	4.26	28.81	35.64	106.79	104.22	74.00	30.22	peak	



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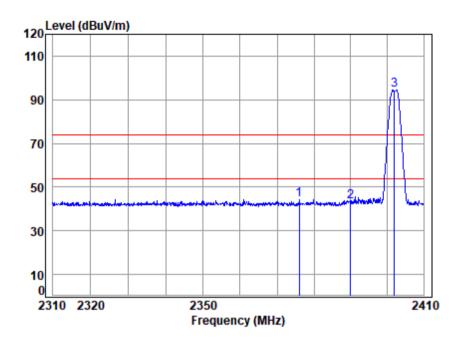


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Test Mode: 25; Polarity: Vertical; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2402 Band edge

Note : BLE

		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	2375.926	4.23	28.70	35.65	47.14	44.42	74.00	-29.58	peak
2	2390.000	4.25	28.76	35.64	46.03	43.40	74.00	-30.60	peak
3 q	2402.000	4.26	28.81	35.64	97.06	94.49	74.00	20.49	peak



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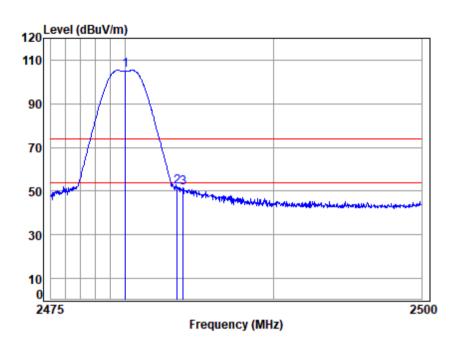


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Test Mode: 25; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2480 Band edge

Note : BLE

		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 q	2480.000	4.34	29.28	35.61	107.47	105.48	74.00	31.48	peak
2	2483.500	4.34	29.30	35.61	53.86	51.89	74.00	-22.11	peak
3	2483.896	4.34	29.30	35.61	53.34	51.37	74.00	-22.63	peak



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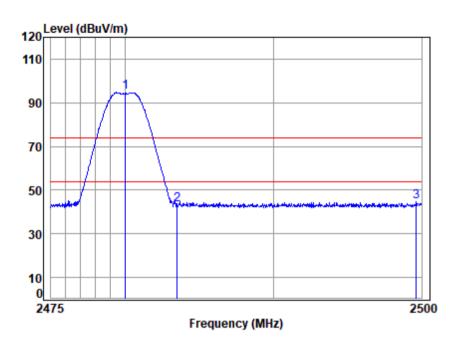


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Test Mode: 25; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2480 Band edge

Note : BLE

	-			Preamp					
	Freq	LOSS	Factor	Factor	revel	revel	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2480.000	4.34	29.28	35.61	96.67	94.68	74.00	20.68	peak
2	2483.500	4.34	29.30	35.61	45.33	43.36	74.00	-30.64	peak
3	2499.648	4.36	29.40	35.60	46.36	44.52	74.00	-29.48	peak



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#### 7.8 Radiated Spurious Emissions Below 1GHz

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

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

Measurement Distance: 3m

#### Limit:

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

#### 7.8.1 E.U.T. Operation

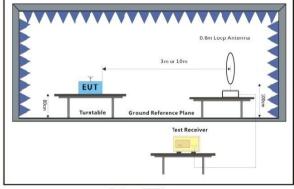
**Operating Environment:** 

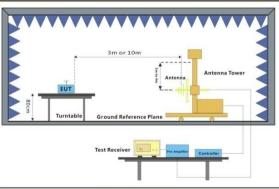
Temperature: 23.9 °C Humidity: 51.5 % RH Atmospheric Pressure: 1015 mbar

#### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	24	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	25	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

### 7.8.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



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#### 7.8.4 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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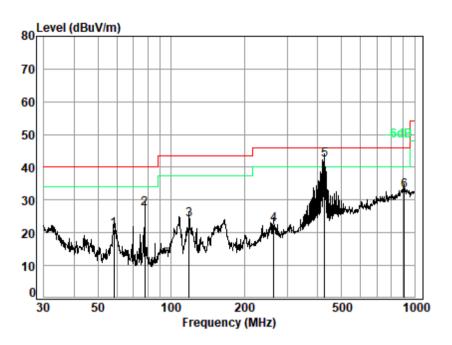


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Test Mode: 24; Polarity: Vertical Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL Job No. : 00912AT MT1002

Test Mode: 24

	Freq	Ant Factor					Limit Line		Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	58.20	11.47	0.84	27.14	35.72	20.89	40.00	-19.11	QP
2	77.87	10.50	1.00	27.07	43.04	27.47	40.00	-12.53	QP
3	118.60	11.86	1.24	26.93	37.91	24.08	43.50	-19.42	QP
4	263.82	17.85	1.96	26.34	29.04	22.51	46.00	-23.49	QP
5 q	426.52	21.31	2.57	26.58	44.84	42.14	46.00	-3.86	QP
6	906 48	28 50	4 94	25 87	26 21	32 88	46 99	-13 12	OP



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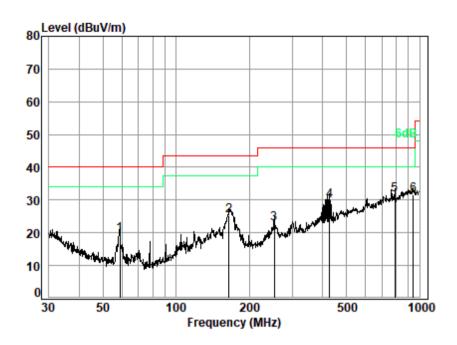


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Test Mode: 24; Polarity: Horizontal Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No. : 00912AT MT1002

Test Mode: 24

		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	58.61	11.42	0.84	27.14	34.48	19.60	40.00	-20.40	QP
2	164.91	13.77	1.50	26.74	36.70	25.23	43.50	-18.27	QP
3	252.95	17.86	1.92	26.39	29.56	22.95	46.00	-23.05	QP
4	426.52	21.31	2.57	26.58	32.65	29.95	46.00	-16.05	QP
5	790.62	26.97	3.64	26.34	27.22	31.49	46.00	-14.51	QP
6 q	942.13	28.67	4.13	25.73	24.71	31.78	46.00	-14.22	QP



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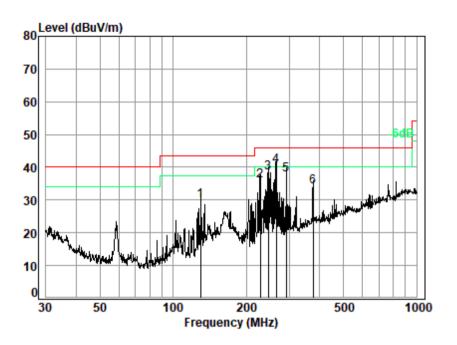


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Test Mode: 24; Polarity: Horizontal Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 00912AT

Test Mode: 24

		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	129.92	11.61	1.30	26.88	43.92	29.95	43.50	-13.55	QP
2	227.69	16.65	1.81	26.49	43.89	35.86	46.00	-10.14	QP
3	245.95	17.93	1.89	26.42	44.85	38.25	46.00	-7.75	QP
4 q	264.75	17.84	1.97	26.34	46.84	40.31	46.00	-5.69	QP
5	292.06	18.22	2.09	26.23	43.79	37.87	46.00	-8.13	QP
6	375.94	21.38	2.39	26.43	36.70	34.04	46.00	-11.96	QP



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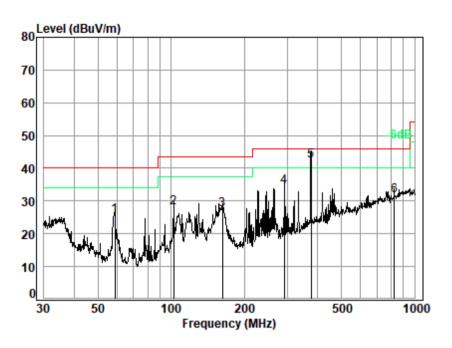


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Test Mode: 24; Polarity: Vertical Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m VERTICAL

Job No. : 00912AT Test Mode: 24

Ant Cable Preamp Read Limit 0ver Freq Factor Loss Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB/m dB 58.61 11.42 0.84 27.14 40.30 25.42 40.00 -14.58 QP 1 2 102.36 12.99 1.15 26.99 40.74 27.89 43.50 -15.61 QP 3 162.61 13.73 1.48 26.75 38.88 27.34 43.50 -16.16 QP 2.09 26.23 40.39 34.47 46.00 -11.53 QP 4 292.06 18.22 5 q 375.94 21.38 2.39 26.43 45.04 42.38 46.00 -3.62 QP 824.60 27.12 3.75 26.20 27.08 31.75 46.00 -14.25 QP



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### 7.9 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

#### 7.9.1 E.U.T. Operation

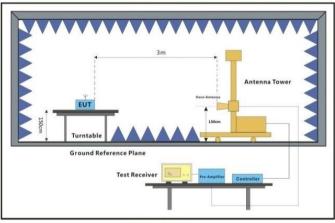
Operating Environment:

20.8 °C Temperature: Humidity: 56.3 % RH Atmospheric Pressure: 1015 mbar

#### 7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	24	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	25	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

#### 7.9.3 Test Setup Diagram



Above 1GHz



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#### 7.9.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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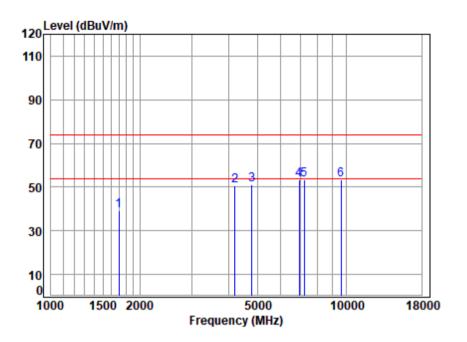


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Test Mode: 24; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2402 TX RSE

: BLE

	_							
	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	
		-			-			
1697.129	3.49	26.79	36.41	45.34	39.21	74.00	-34.79	peak
4206.011	6.49	33.42	34.48	45.38	50.81	74.00	-23.19	peak
4804.000	7.04	33.82	34.86	45.01	51.01	74.00	-22.99	peak
6934.778	8.31	35.67	35.86	45.17	53.29	74.00	-20.71	peak
7206.000	8.52	35.80	35.95	45.14	53.51	74.00	-20.49	peak
9608.000	10.39	37.10	35.55	41.67	53.61	74.00	-20.39	peak
	MHz 1697.129 4206.011 4804.000 6934.778 7206.000	Freq Loss  MHz dB  1697.129 3.49 4206.011 6.49 4804.000 7.04 6934.778 8.31 7206.000 8.52	Freq         Loss Factor           MHz         dB         dB/m           1697.129         3.49         26.79           4206.011         6.49         33.42           4804.000         7.04         33.82           6934.778         8.31         35.67           7206.000         8.52         35.80	Freq         Loss Factor Factor           MHz         dB         dB/m         dB           1697.129         3.49         26.79         36.41           4206.011         6.49         33.42         34.48           4804.000         7.04         33.82         34.86           6934.778         8.31         35.67         35.86           7206.000         8.52         35.80         35.95	Freq         Loss Factor Factor         Level           MHz         dB         dB/m         dB         dBuV           1697.129         3.49         26.79         36.41         45.34           4206.011         6.49         33.42         34.48         45.38           4804.000         7.04         33.82         34.86         45.01           6934.778         8.31         35.67         35.86         45.17           7206.000         8.52         35.80         35.95         45.14	Freq         Loss Factor Factor         Level         Level           MHz         dB         dB/m         dB         dBuV         dBuV/m           1697.129         3.49         26.79         36.41         45.34         39.21           4206.011         6.49         33.42         34.48         45.38         50.81           4804.000         7.04         33.82         34.86         45.01         51.01           6934.778         8.31         35.67         35.86         45.17         53.29           7206.000         8.52         35.80         35.95         45.14         53.51	Freq         Loss Factor Factor         Level         Level         Line           MHz         dB         dB/m         dB         dBuV         dBuV/m         dBuV/m           1697.129         3.49         26.79         36.41         45.34         39.21         74.00           4206.011         6.49         33.42         34.48         45.38         50.81         74.00           4804.000         7.04         33.82         34.86         45.01         51.01         74.00           6934.778         8.31         35.67         35.86         45.17         53.29         74.00           7206.000         8.52         35.80         35.95         45.14         53.51         74.00	Cable Loss Factor Factor         Read Level Level Line Limit         Limit Over Limit           MHz         dB         dB/m         dB         dBuV dBuV/m         dBuV/m         dBuV/m         dB           1697.129         3.49         26.79         36.41         45.34         39.21         74.00         -34.79           4206.011         6.49         33.42         34.48         45.38         50.81         74.00         -23.19           4804.000         7.04         33.82         34.86         45.01         51.01         74.00         -22.99           6934.778         8.31         35.67         35.86         45.17         53.29         74.00         -20.71           7206.000         8.52         35.80         35.95         45.14         53.51         74.00         -20.49           9608.000         10.39         37.10         35.55         41.67         53.61         74.00         -20.39



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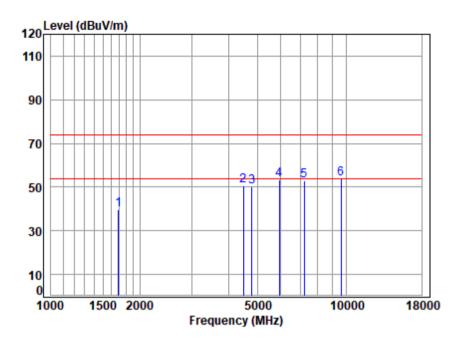


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091203

Page: 46 of 83

Test Mode: 24; Polarity: Vertical; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2402 TX RSE

: BLE

			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		1692.231	3.48	26.78	36.42	45.71	39.55	74.00	-34.45	peak	
2		4482.150	6.75	33.50	34.66	44.96	50.55	74.00	-23.45	peak	
3		4804.000	7.04	33.82	34.86	43.97	49.97	74.00	-24.03	peak	
4		5932.638	8.10	34.87	35.04	45.23	53.16	74.00	-20.84	peak	
5		7206.000	8.52	35.80	35.95	44.58	52.95	74.00	-21.05	peak	
6	-	9608 000	10 39	37 10	35 55	/11 85	53 79	7/ 00	-20 21	nook	



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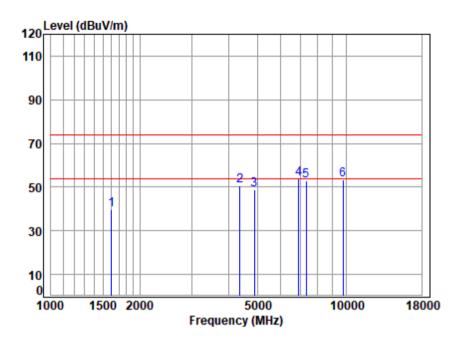


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091203

Page: 47 of 83

Test Mode: 24; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2440 TX RSE

: BLE

		_							
		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	1606.441	3.38	26.53	36.62	46.39	39.68	74.00	-34.32	peak
2	4367.058	6.65	33.57	34.59	45.16	50.79	74.00	-23.21	peak
3	4880.000	7.11	34.06	34.91	42.77	49.03	74.00	-24.97	peak
4	q 6914.763	8.31	35.63	35.84	45.55	53.65	74.00	-20.35	peak
5	7320.000	8.62	35.90	35.97	44.34	52.89	74.00	-21.11	peak
6	9760.000	10.45	37.20	35.56	41.49	53.58	74.00	-20.42	peak



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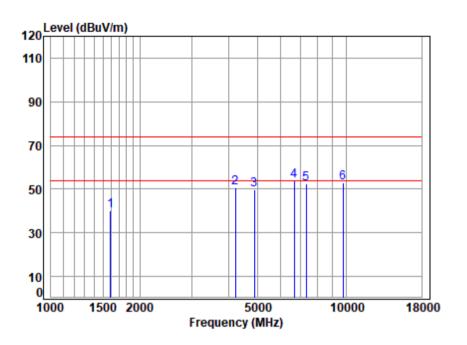


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091203

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Test Mode: 24; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2440 TX RSE

: BLE

					Preamp					
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1592.571	3.36	26.41	36.65	47.08	40.20	74.00	-33.80	peak
2		4218.186	6.50	33.47	34.48	44.96	50.45	74.00	-23.55	peak
3		4880.000	7.11	34.06	34.91	43.45	49.71	74.00	-24.29	peak
4	q	6679.040	8.27	35.60	35.65	45.77	53.99	74.00	-20.01	peak
5		7320.000	8.62	35.90	35.97	43.83	52.38	74.00	-21.62	peak
6		9760.000	10.45	37.20	35.56	40.94	53.03	74.00	-20.97	peak



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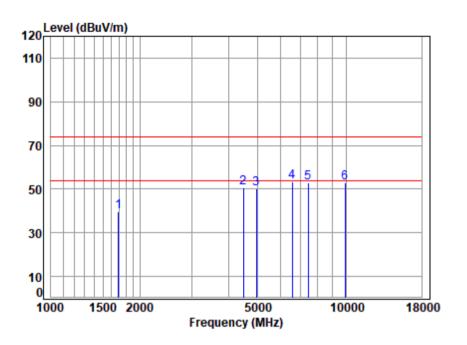


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091203

Page: 49 of 83

Test Mode: 24; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT Mode : 2480 TX RSE

: BLE

			_							
			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		1692.231	3.48	26.78	36.42	45.81	39.65	74.00	-34.35	peak
2		4495.125	6.77	33.50	34.67	45.10	50.70	74.00	-23.30	peak
3		4960.000	7.18	34.22	34.96	43.93	50.37	74.00	-23.63	peak
4	q	6564.209	8.25	35.60	35.55	45.08	53.38	74.00	-20.62	peak
5		7440.000	8.73	35.90	35.99	44.37	53.01	74.00	-20.99	peak
6		9920.000	10.52	37.30	35.57	40.82	53.07	74.00	-20.93	peak



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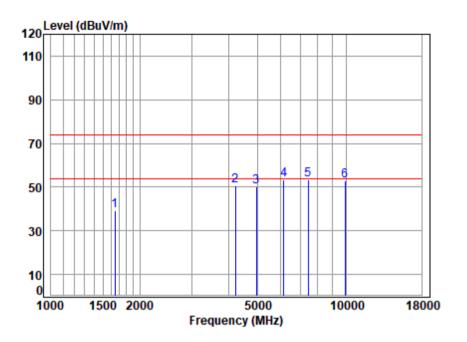


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091203

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Test Mode: 24; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2480 TX RSE

: BLE

					Preamp					
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1		1648.778	3.43	26.70	36.52	45.58	39.19	74.00	-34.81	peak
2		4218.186	6.50	33.47	34.48	45.00	50.49	74.00	-23.51	peak
3		4960.000	7.18	34.22	34.96	43.90	50.34	74.00	-23.66	peak
4	q	6142.019	8.18	35.18	35.17	45.36	53.55	74.00	-20.45	peak
5		7440.000	8.73	35.90	35.99	44.82	53.46	74.00	-20.54	peak
6		9920.000	10.52	37.30	35.57	40.82	53.07	74.00	-20.93	peak



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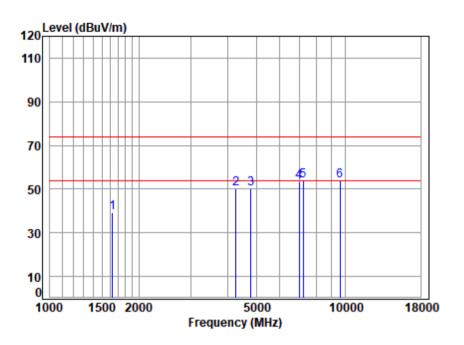


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Report No.: SZCR230400091203

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Test Mode: 25; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Job No

Condition: 3m HORIZONTAL

: 00912AT

Mode : 2402 TX RSE

: BLE

			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		1629.825	3.41	26.62	36.56	45.57	39.04	74.00	-34.96	peak	
2		4267.237	6.55	33.60	34.52	44.65	50.28	74.00	-23.72	peak	
3		4804.000	7.04	33.82	34.86	44.15	50.15	74.00	-23.85	peak	
4		6995.172	8.32	35.79	35.91	44.98	53.18	74.00	-20.82	peak	
5		7206.000	8.52	35.80	35.95	45.30	53.67	74.00	-20.33	peak	
6	-	9608 000	10 39	37 10	35 55	/11 99	53 93	7/ 00	-20 07	nook	



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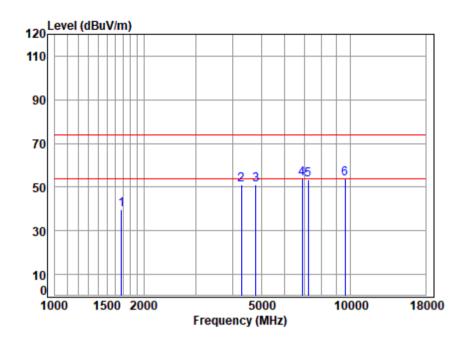


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Report No.: SZCR230400091203

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Test Mode: 25; Polarity: Vertical; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2402 TX RSE

: BLE

			_							
			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		1682.477	3.47	26.77	36.44	46.07	39.87	74.00	-34.13	peak
2		4279.589	6.56	33.60	34.53	45.59	51.22	74.00	-22.78	peak
3		4804.000	7.04	33.82	34.86	45.02	51.02	74.00	-22.98	peak
4	q	6874.906	8.30	35.60	35.81	45.83	53.92	74.00	-20.08	peak
5	Ī	7206.000	8.52	35.80	35.95	44.92	53.29	74.00	-20.71	peak
6		9608 000	10 39	37 10	35 55	/11 82	53 76	7/ 00	-20 24	neak



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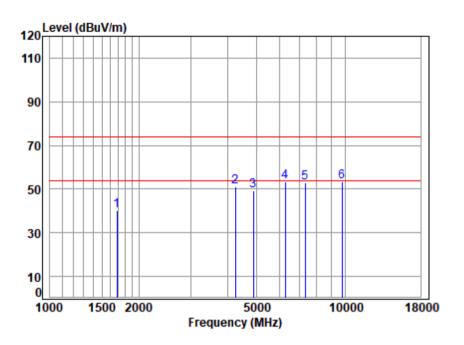


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Test Mode: 25; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT Mode : 2440 TX RSE

: BLE

		_							
		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	1687.347	3.47	26.77	36.43	46.43	40.24	74.00	-33.76	peak
2	4242.641	6.53	33.57	34.50	45.55	51.15	74.00	-22.85	peak
3	4880.000	7.11	34.06	34.91	42.89	49.15	74.00	-24.85	peak
4 q	6267.553	8.21	35.20	35.29	45.35	53.47	74.00	-20.53	peak
5	7320.000	8.62	35.90	35.97	44.26	52.81	74.00	-21.19	peak
6	9760.000	10.45	37.20	35.56	41.27	53.36	74.00	-20.64	peak



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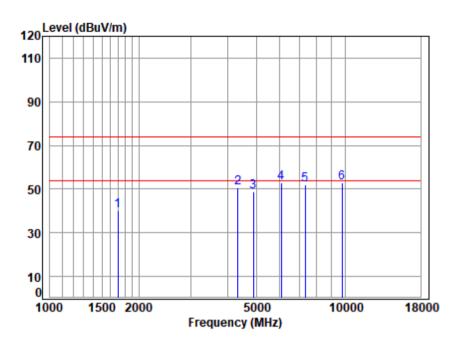


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Test Mode: 25; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2440 TX RSE

: BLE

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1697.129	3.49	26.79	36.41	46.15	40.02	74.00	-33.98	peak
2		4341.886	6.62	33.60	34.57	45.20	50.85	74.00	-23.15	peak
3		4880.000	7.11	34.06	34.91	42.52	48.78	74.00	-25.22	peak
4	q	6071.417	8.17	35.04	35.11	45.00	53.10	74.00	-20.90	peak
5	Ī	7320.000	8.62	35.90	35.97	43.42	51.97	74.00	-22.03	peak
6		9760 000	10 /15	37 20	35 56	40 93	53 02	7/ 00	-20 98	neak



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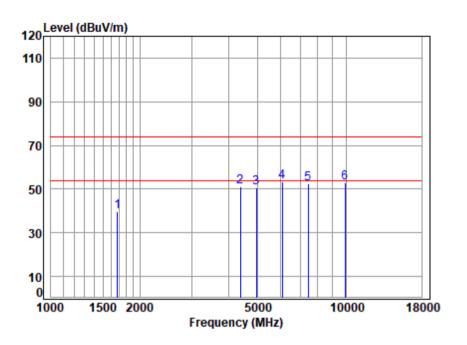


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Test Mode: 25; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: BLE

Job No : 00912AT Mode

: 2480 TX RSE

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dB dBuV dBuV/m dBuV/m 3.47 26.77 36.44 45.84 39.64 74.00 -34.36 peak 1 1682.477 2 4379.699 6.66 33.54 34.59 45.43 51.04 74.00 -22.96 peak 7.18 34.22 34.96 44.17 50.61 74.00 -23.39 peak 3 4960.000 4 q 6071.417 8.17 35.04 35.11 45.14 53.24 74.00 -20.76 peak 5 7440.000 8.73 35.90 35.99 43.96 52.60 74.00 -21.40 peak 9920.000 10.52 37.30 35.57 40.77 53.02 74.00 -20.98 peak



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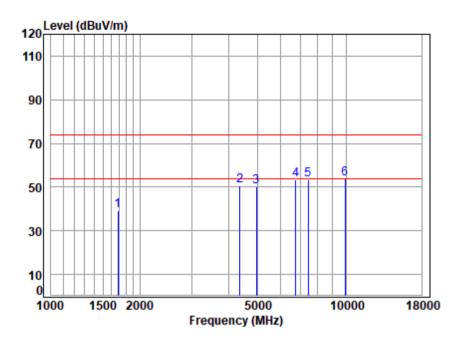


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Test Mode: 25; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT Mode : 2480 TX RSE

: BLE

		Cable	Ant	Preamp	Read		Limit	0ver		
	Fre	q Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MH:	z dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1687.34	7 3.47	26.77	36.43	45.54	39.35	74.00	-34.65	peak	
2	4367.05	6.65	33.57	34.59	45.11	50.74	74.00	-23.26	peak	
3	4960.00	7.18	34.22	34.96	43.83	50.27	74.00	-23.73	peak	
4	6756.70	8.28	35.50	35.71	45.52	53.59	74.00	-20.41	peak	
5	7440.00	8.73	35.90	35.99	44.64	53.28	74.00	-20.72	peak	
6	q 9920.000	0 10.52	37.30	35.57	41.72	53.97	74.00	-20.03	peak	



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#### 8 **Test Setup Photo**

Refer to Appendix - Test Setup Photo for SZCR2304000912AT

#### **EUT Constructional Details (EUT Photos)** 9

Refer to External and Internal Photos for SZCR2304000912AT



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# 10 Appendix

1. Duty Cycle

1.1 Ant1

#### 1.1.1 Test Result

	Ant1									
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)			
		2402	0.384	0.626	61.34	2.12	0.05			
1M	SISO	2440	0.384	0.625	61.44	2.12	0.03			
		2480	0.379	0.625	60.64	2.17	0.02			
		2402	0.200	0.625	32.00	4.95	0.00			
2M	SISO	2440	0.200	0.625	32.00	4.95	0.03			
		2480	0.200	0.625	32.00	4.95	0.03			



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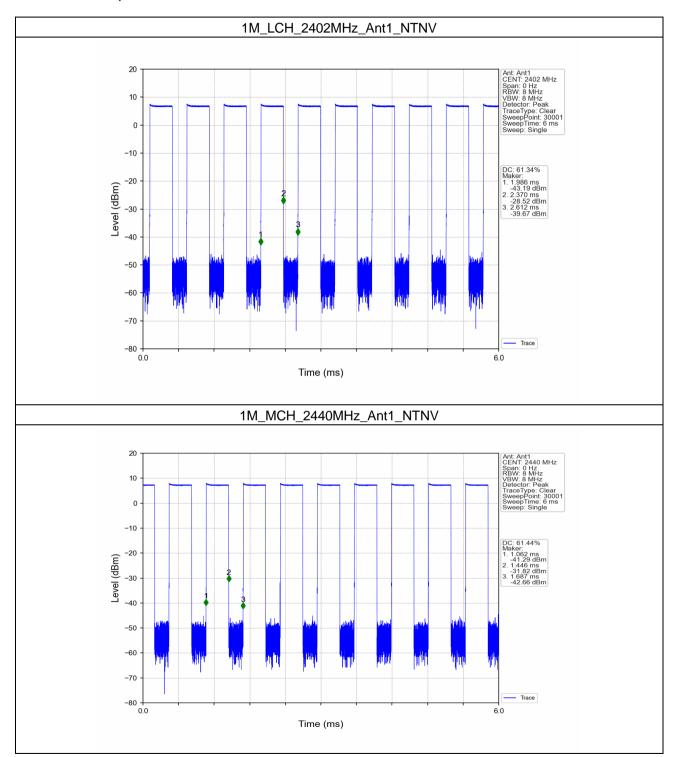


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#### 1.1.2 Test Graph





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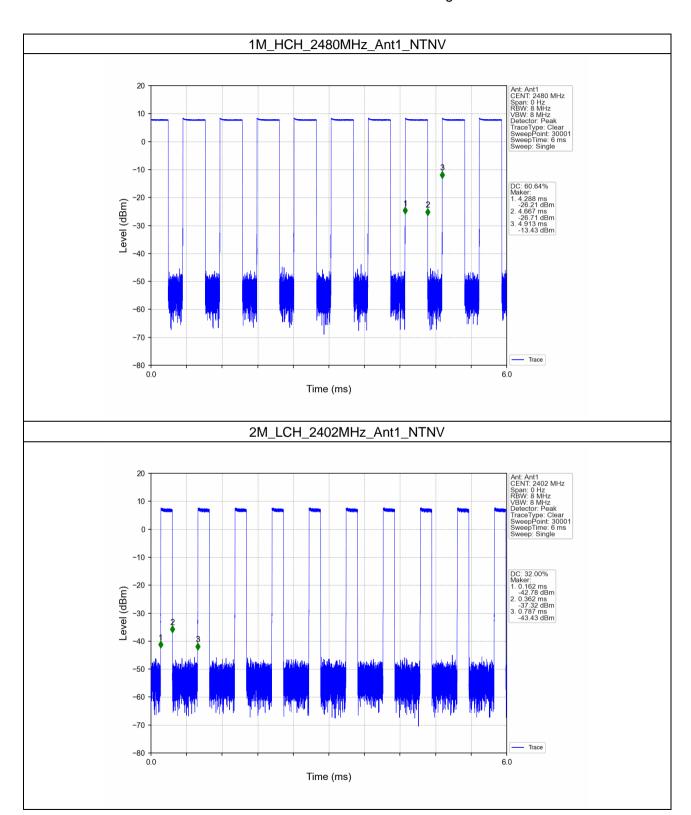
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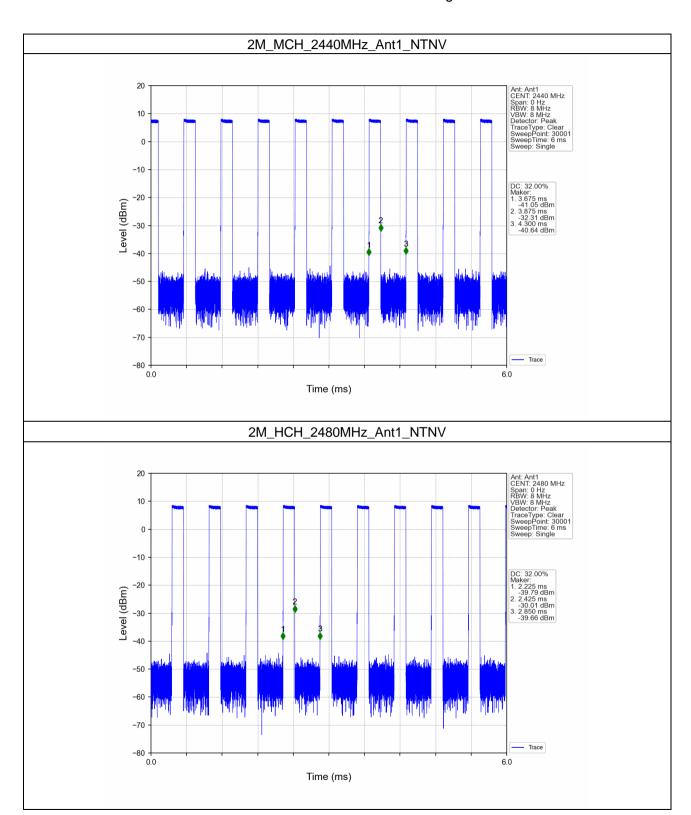
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#### 2. Bandwidth

2.1 OBW

#### 2.1.1 Test Result

Mode	TX	Frequency	ANT	99% Occupied Bandwidth (MHz)	Verdict	
iviode	Type	(MHz)	AINI	Result	verdict	
		2402	1	1.053	Pass	
1M	SISO	2440	1	1.055	Pass	
			2480	1	1.053	Pass
		2402	1	2.061	Pass	
2M	SISO	2440	1	2.060	Pass	
		2480	1	2.058	Pass	



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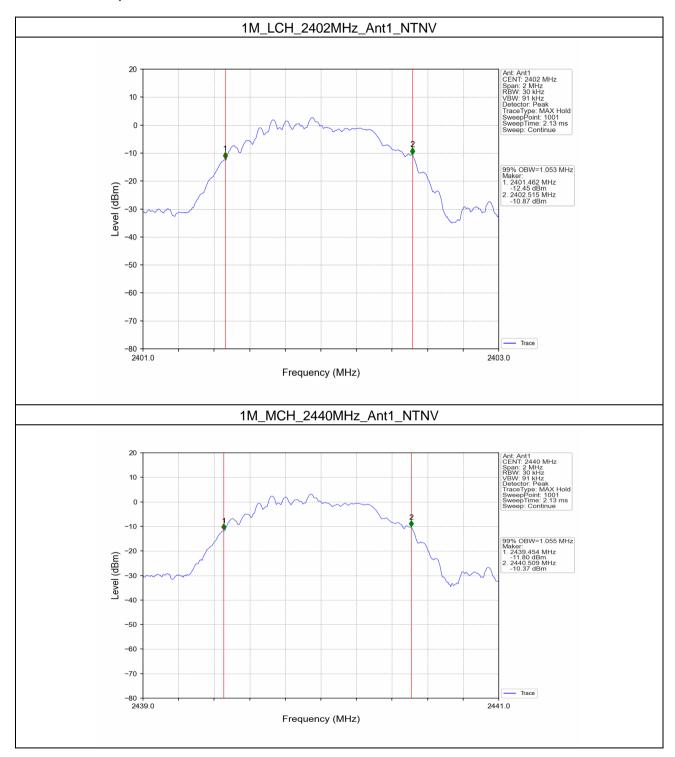


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#### 2.1.2 Test Graph





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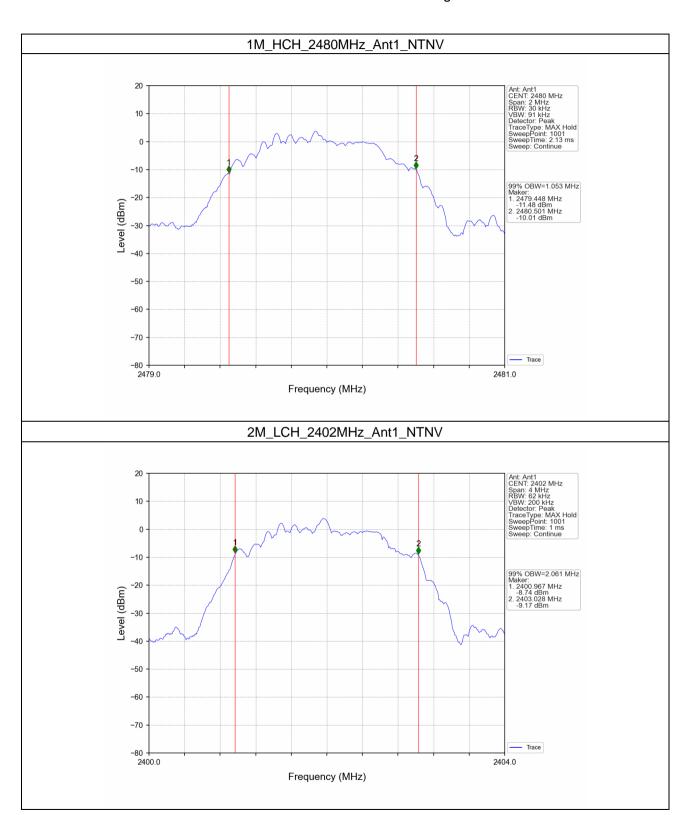
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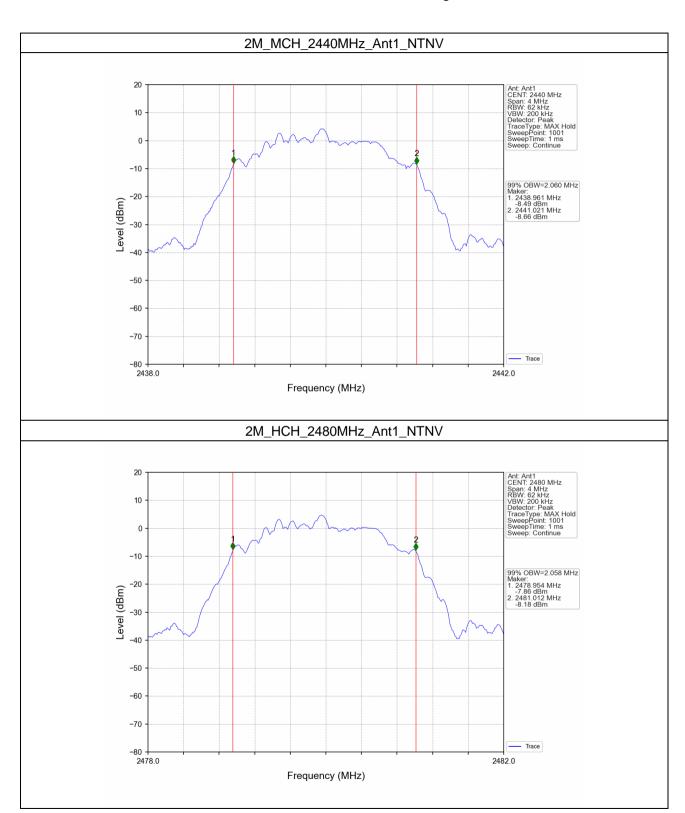
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#### 2.2 6dB BW

#### 2.2.1 Test Result

Mada	TX	Frequency	A NIT	6dB Bandv	vidth (MHz)	Vordict
Mode	Type	(MHz)	ANT	Result	Limit	Verdict
		2402	1	0.685	>=0.5	Pass
1M	SISO	2440	1	0.684	>=0.5	Pass
		2480	1	0.691	>=0.5	Pass
		2402	1	1.243	>=0.5	Pass
2M	SISO	2440	1	1.202	>=0.5	Pass
	-	2480	1	1.246	>=0.5	Pass



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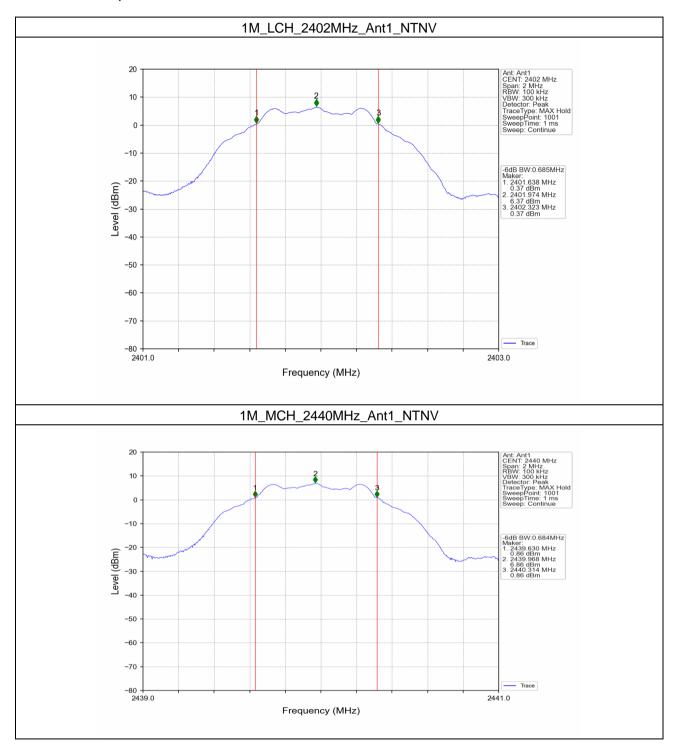


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### 2.2.2 Test Graph





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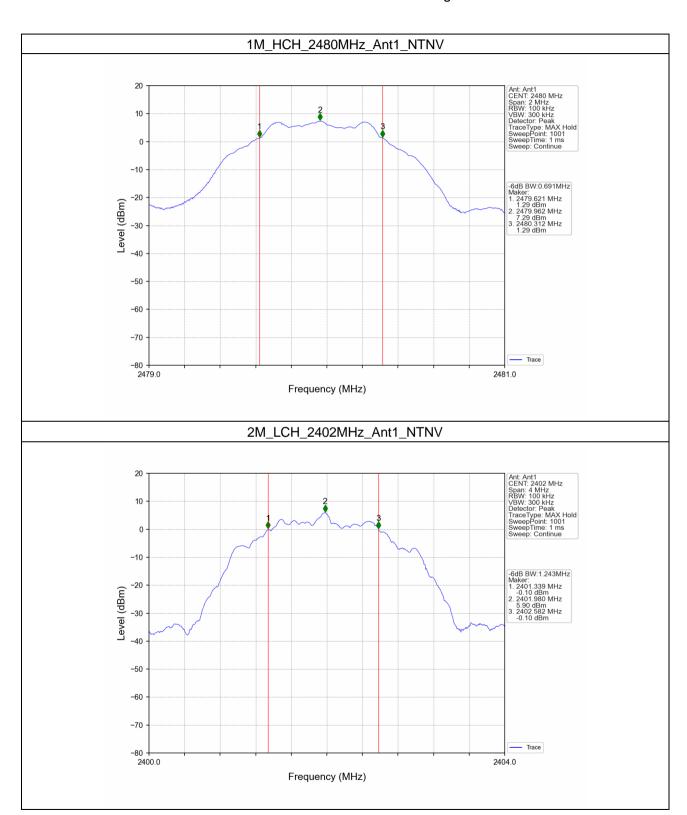
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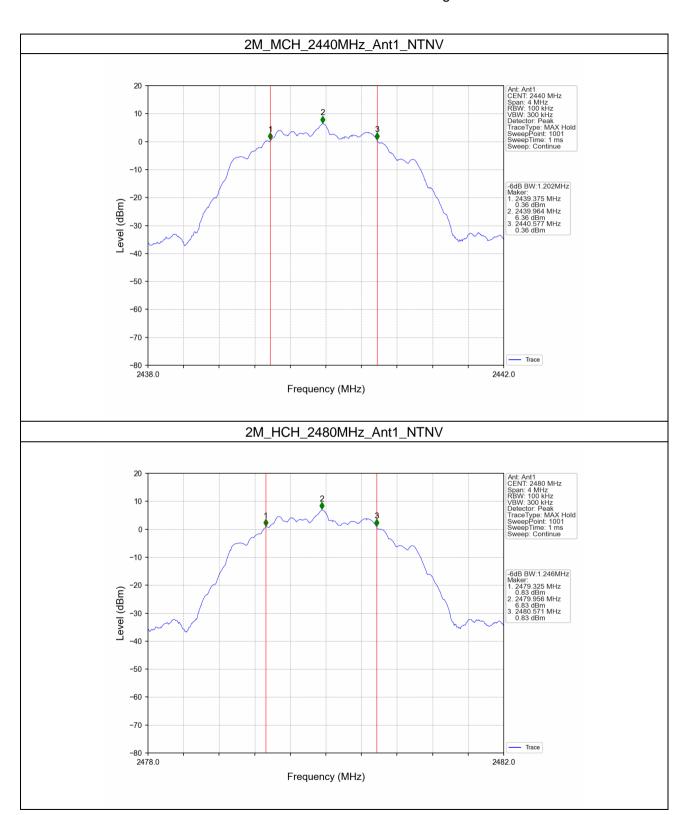
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## 3. Maximum Conducted Output Power

#### 3.1 Power

#### 3.1.1 Test Result

Mada	TX	Frequency	Maximum Peak Conduc	ted Output Power (dBm)	Verdict
Mode	Туре	(MHz)	ANT1	Limit	verdict
		2402	7.39	<=30	Pass
1M	SISO	2440	7.79	<=30	Pass
		2480	8.27	<=30	Pass
		2402	7.53	<=30	Pass
2M	SISO	2440	7.96	<=30	Pass
		2480	8.41	<=30	Pass

### 4. Maximum Power Spectral Density

#### 4.1 PSD

#### 4.1.1 Test Result

Mode	TX	Frequency	Maximum PS	D (dBm/3kHz)	Verdict
Mode	Type	(MHz)	ANT1	Limit	verdict
		2402	-8.38	<=8	Pass
1M	SISO	2440	-7.92	<=8	Pass
		2480	-7.42	<=8	Pass
		2402	-10.73	<=8	Pass
2M	SISO	2440	-10.25	<=8	Pass
		2480	-9.73	<=8	Pass



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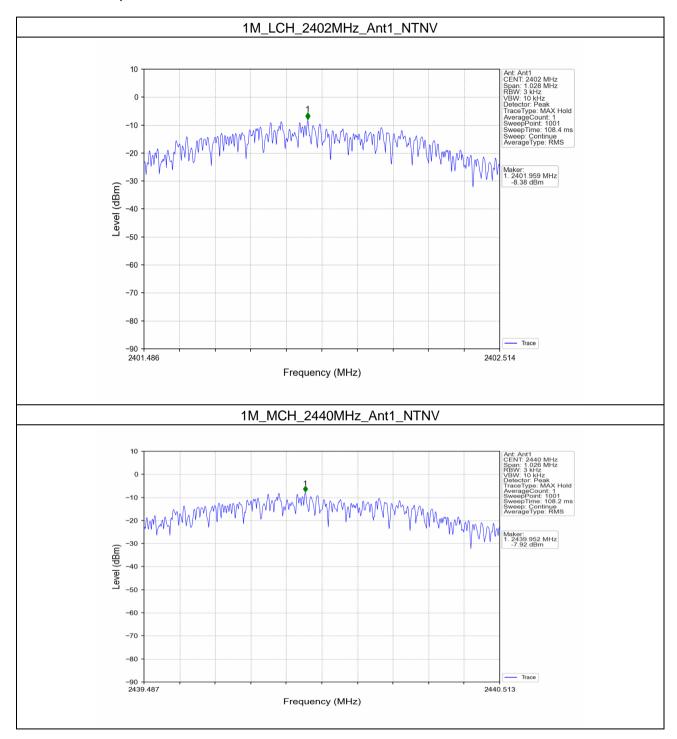


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### 4.1.2 Test Graph





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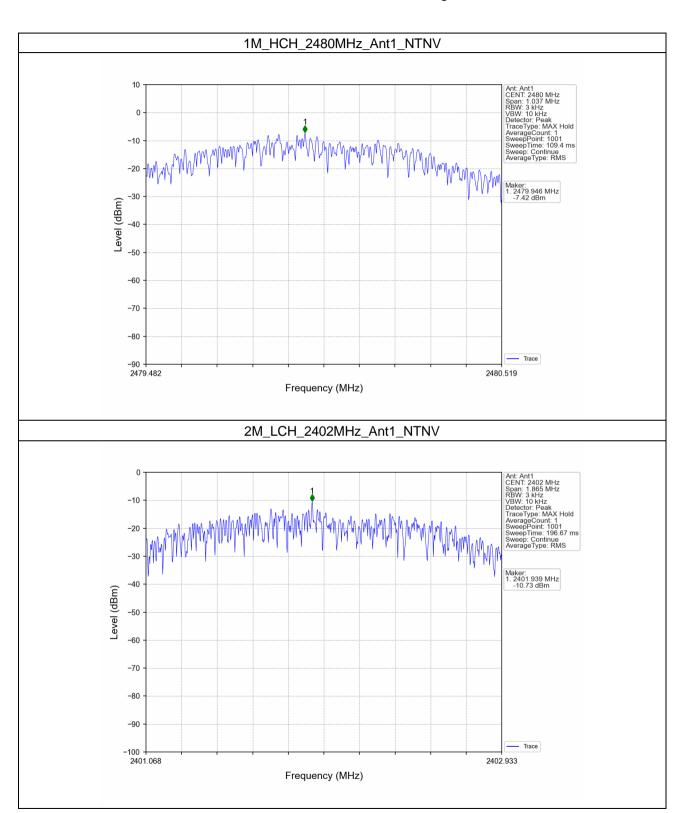
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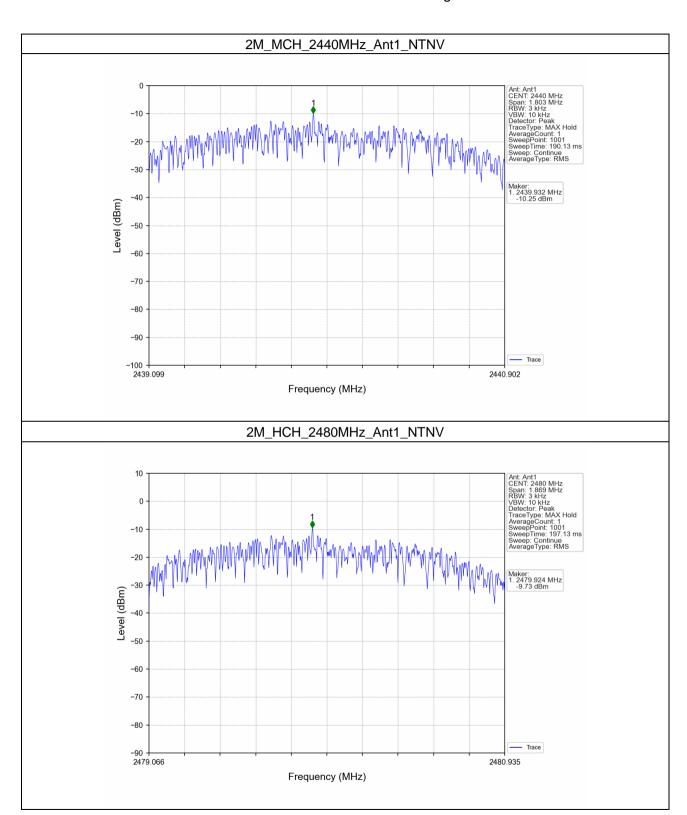
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## 5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

#### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2402	1	6.38
1M	SISO	2440	1	6.83
		2480	1	7.31
		2402	1	5.92
2M	SISO	2440	1	6.36
		2480	1	6.84



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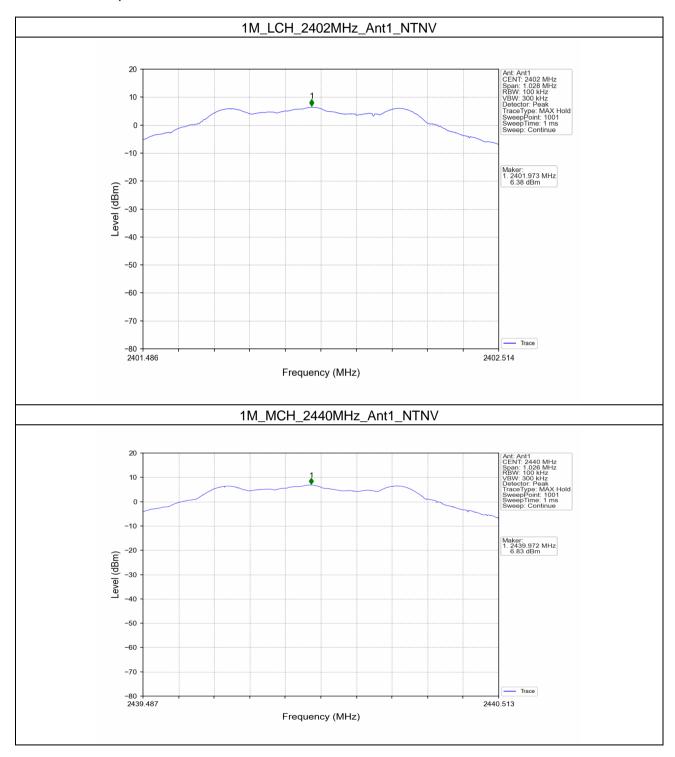


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### 5.1.2 Test Graph





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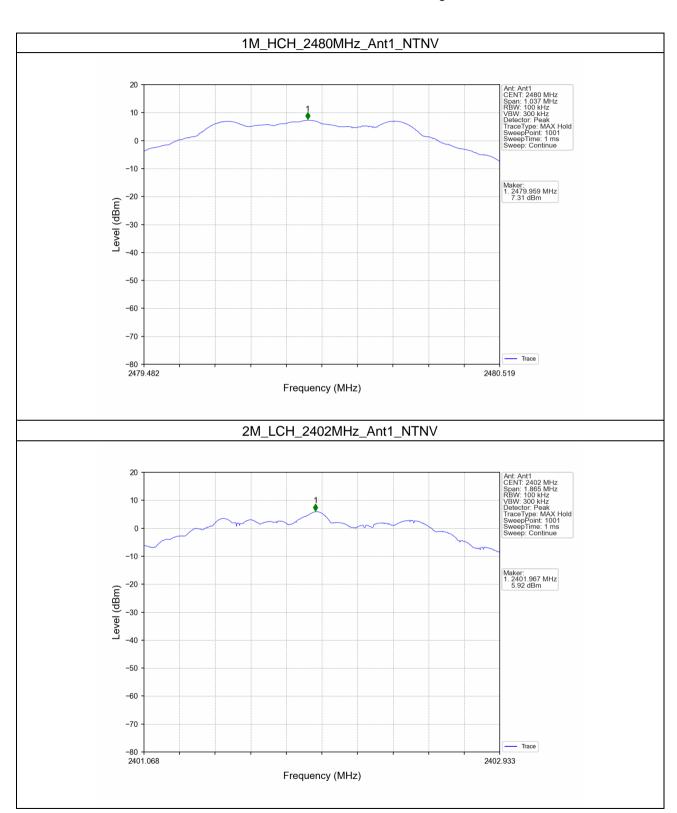
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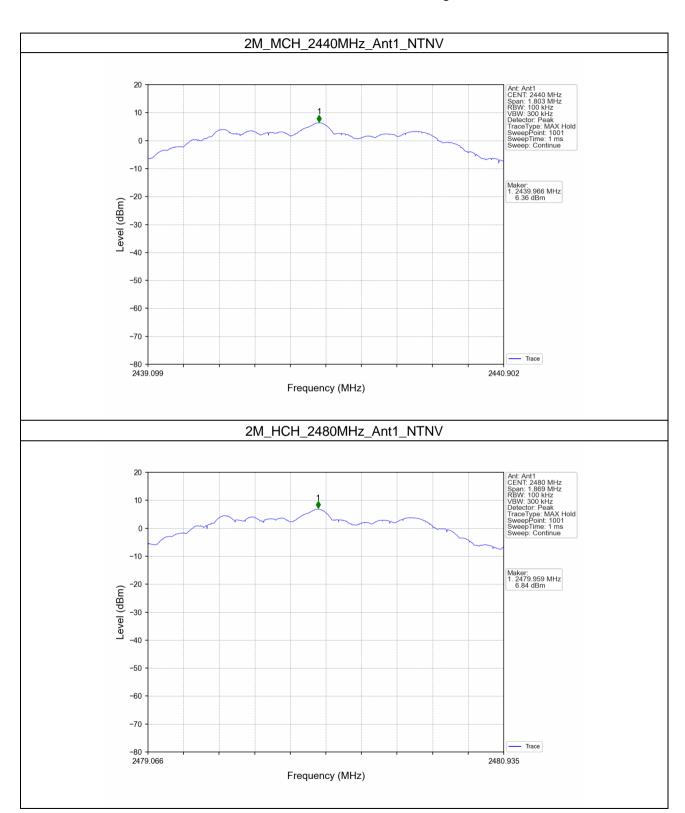
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#### 5.2 CSE

#### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	7.31	-12.69	Pass
		2440	1	7.31	-12.69	Pass
		2480	1	7.31	-12.69	Pass
2M	SISO	2402	1	6.84	-13.16	Pass
		2440	1	6.84	-13.16	Pass
		2480	1	6.84	-13.16	Pass



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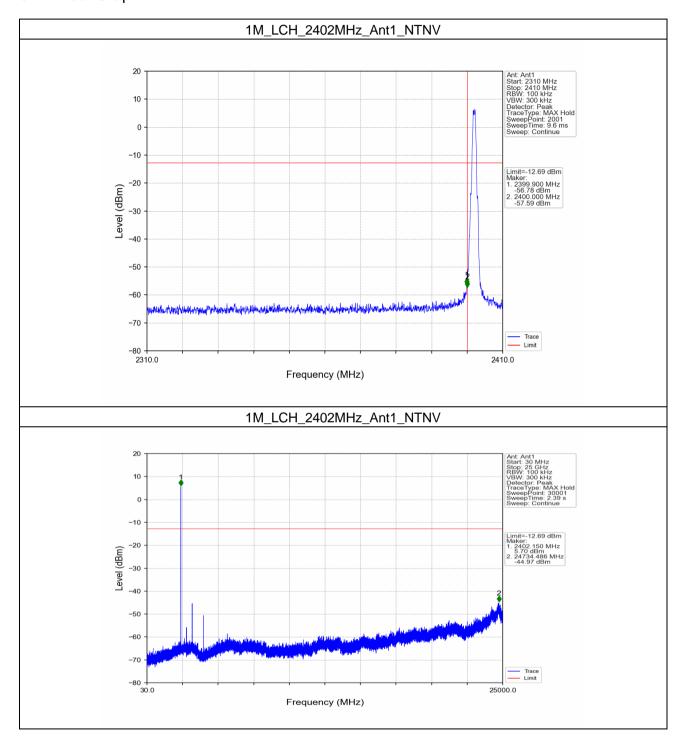


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### 5.2.2 Test Graph





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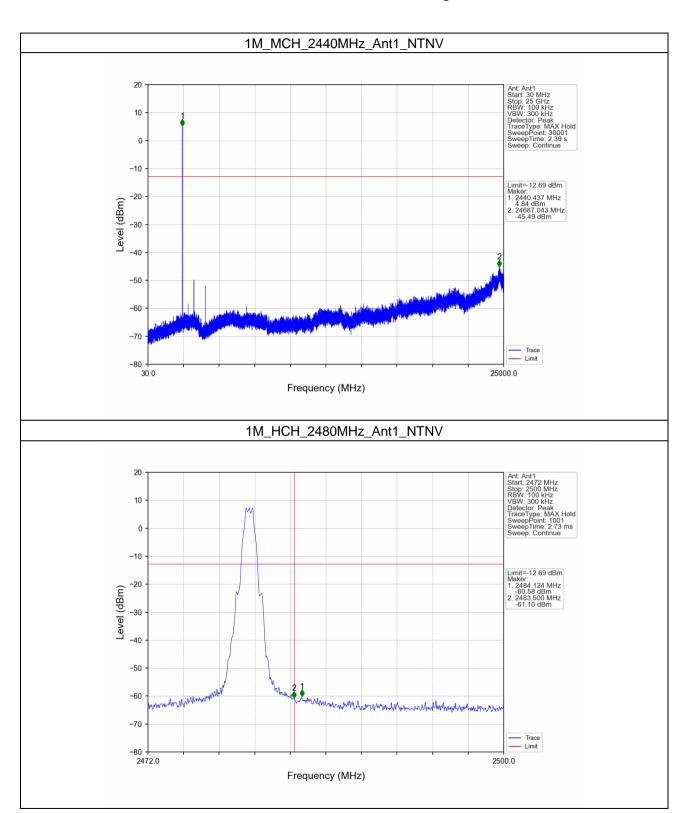
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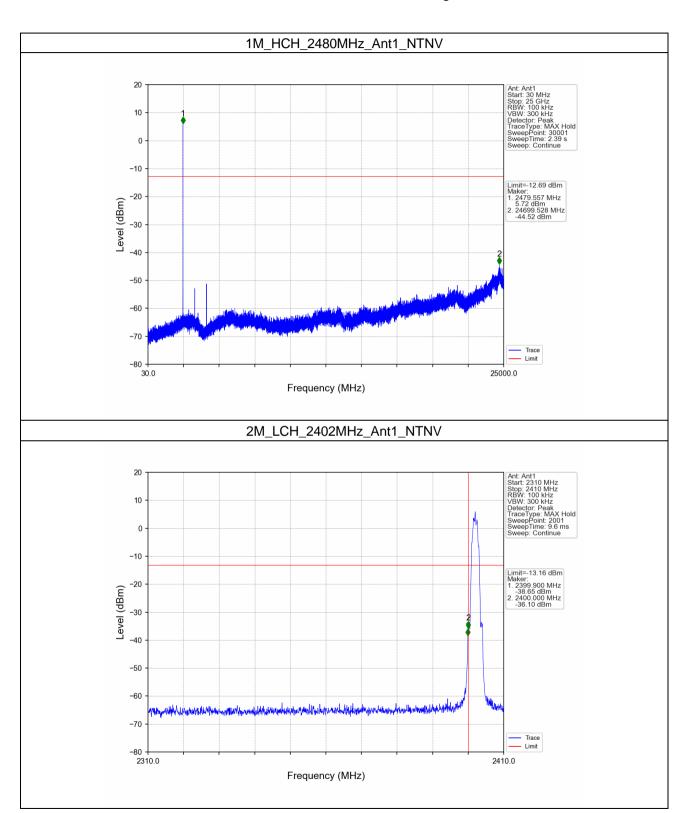
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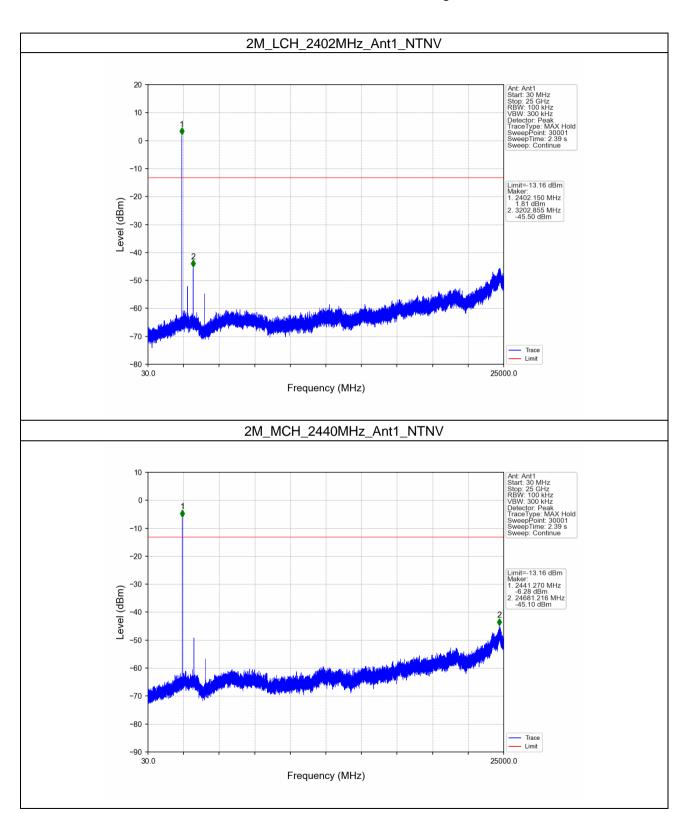
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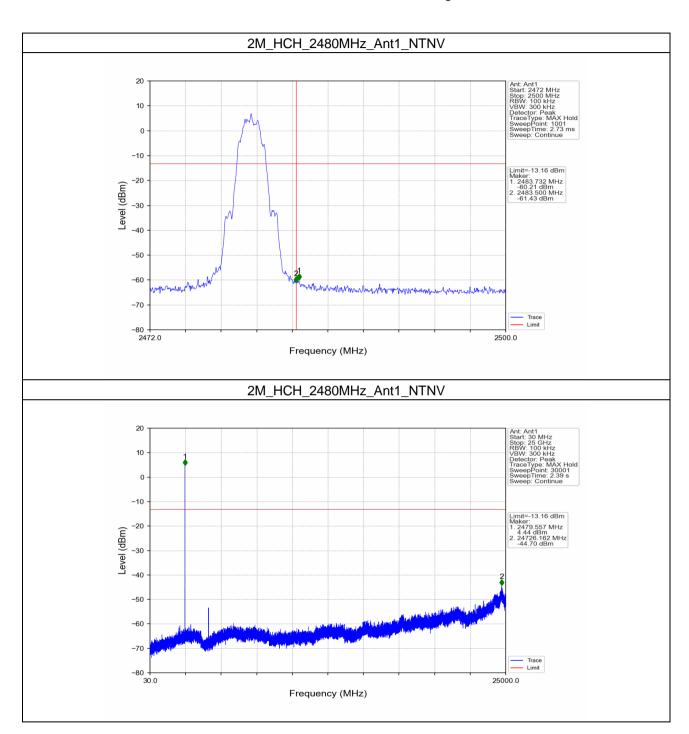
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