

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231200401903

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TEST REPORT

Application No.: SZCR2312004019AT

Applicant: **KEYENCE CORPORATION**

Address of Applicant: 1-3-14, Higashinakajima, Higashiyodogawa-ku, Osaka, 533-8555 Japan

Manufacturer: **KEYENCE CORPORATION**

1-3-14, Higashinakajima, Higashiyodogawa-ku, Osaka, 533-8555 Japan Address of Manufacturer:

Factory: **KEYENCE CORPORATION**

Address of Factory: 1-3-14, Higashinakajima, Higashiyodogawa-ku, Osaka, 533-8555 Japan

Equipment Under Test (EUT):

EUT Name: Handheld Terminal Model No.: BT-A600MGA **Trade Mark: KEYENCE** FCC ID: RF41761A

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

2023-12-08 Date of Receipt:

Date of Test: 2023-12-22 to 2024-08-12

2024-08-23 Date of Issue:

Pass* **Test Result:**

Keny Xu **EMC Laboratory Manager**

Ceny. Ku



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



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	Revision Record						
Version	Version Chapter Date Modifier Remark						
01		2024-08-23		Original			

Authorized for issue by:		
	Calvin Weng	
	Calvin Weng/Project Engineer	-
	Eric Fu	
	Eric Fu/Reviewer	-



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2 **Test Summary**

Radio Spectrum Technical Requirement					
Item Standard Method Requirement Res					
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	47 CFR Part 15, Subpart C 15.247	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		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Conducted Spurious Emissions		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	



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General Information

Details of E.U.T. 4.1

DC3.6V by li-ion battery(6270mAh)		
M/N:DX-BC6		
Battery manufacturer:Getac Technology(Kunshan)Co.,Ltd.		
Recharged by DC5V/2A power adapter		
0.7dB		
2402MHz to 2480MHz		
V5.2 Dual mode		
GFSK		
40		
2MHz		
FPC Antenna		
Ant1:1.69dBi Ant5:1.98dBi		

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Power level setting using in test

Ant1 & Ant5

Oh anna al	BLE 1M	BLE 2M	
Channel	Ant 1	Ant 1	
0	default	default	
19	default	default	
39	default	default	

4.3 Description of Support Units

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

4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB



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Conducted Spurious Emissions	± 0.75dB	
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)	
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m	
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)	



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4.5 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

4.6 Test Facility

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

A2LA (Certificate No. 3816.01)

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

VCCI (Member No. 1937)

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

• FCC -Designation Number: CN1336

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

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

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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Equipment List 5

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13	
EMI Test Receiver	Rohde&Schwarz	FSCI	SEM004-02	2023-03-15	2024-03-14	
EIVII Test Receiver	RondeaSchwarz	ESCI		2024-03-14	2025-03-13	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2023-07-07	2024-07-06	
Coaxiai Cable				2024-07-06	2025-07-05	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-08-15	2024-08-14	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-15	2024-03-14	
LISIN			3EIVIUU7-U2	2024-03-14	2025-03-13	

RF conducted test					
Equipment	Equipment Manufacturer Model No. Inventory No.		Cal Date	Cal Due Date	
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2023-03-28	2024-03-27
Power Serisor	131 PA33	13F32023R	3EM009-20	2024-03-27	2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2023-03-15	2024-03-14
Power Sensor	KETSIGHT	U2021XA	3EM009-10	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-08-15	2024-08-14
MVA Signal Anglyzon	KEYSIGHT	N9020A	SEM004 10	2023-03-15	2024-03-14
MXA Signal Analyzer	KETSIGHT		SEM004-19	2024-03-14	2025-03-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	NI/A	SEM031-01	2023-07-07	2024-07-06
Coaxiai Cable	363	N/A	SEIVIUS I-U I	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-	SEM021-09	2023-03-28	2024-03-27
Attenuator	Huber+Suriner	1	3EM021-09	2024-03-27	2025-03-26
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Programmable Temperature & Humidity	Votsch Industrietechnik	VT 4002	SEM002-15	2023-03-20	2024-03-19
Chamber	GmbH			2024-03-19	2025-03-18

Radiated Emissions which fall in the restricted bands						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Fully-Anechoic	ALIDIV	N//A CEM/004 00		2021-05-12	2024-05-11	
Chamber			SEM001-02	2024-05-11	2027-05-10	
Cianal Analysis Bahda 9 Cahusan FC)		F61/40	SEM008-04	2023-03-15	2024-03-14	
Signal Analyzer	Rohde & Schwarz	FSV40	3EIVIUU8-U4	2024-03-14	2025-03-13	



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Horn Antenna	Rohde&Schwarz	HF907	HF907 SEM003-07		2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6- 27 N/A		N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170 SEM003-15		2023-08-11 2024-08-10	2024-08-10 2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50 SEM005-08		2023-03-15 2024-03-14	2024-03-14 2025-03-13

Radiated Spurious Emissions Below 1GHz							
Equipment	Equipment Manufacturer		Inventory No.	Cal Date	Cal Due Date		
10m Semi-Anechoic	SAEMC	FSAC1018	SEM001-03	2023-03-28	2024-03-27		
Chamber	SALIVIC	PSACTOTO	3EM001-03	2024-03-27	2025-03-26		
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2023-08-15	2024-08-14		
Trilog-Broadband Antenna	Schwarzbeck	VULB9168 SEM003-18		2023-09-23	2025-09-22		
Pre-amplifier	Sonoma Instrument	310N	SEM005-04	2023-03-28	2024-03-27		
rie-amplillei	Со	31014	3EM003-04	2024-03-27	2025-03-26		
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19		
Measurement Software	AUDIX	e3 V8.2014-6- 27 N/A		N/A	N/A		
Coaxial Cable	SGS	N1/A	SEM029-01	2023-07-07	2024-07-06		
Coaxial Cable	363	N/A	3EIVIU29-UT	2024-07-06	2025-07-05		

Radiated Spurious Emissions Above 1GHz							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
3m Fully-Anechoic	AUDIX	N/A	SEM001-02	2021-05-12	2024-05-11		
Chamber	AUDIX	IN/A	3EM001-02	2024-05-11	2027-05-10		
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-15	2024-03-14		
Signal Analyzei	Nonue & Schwarz	F3V40	3EM006-04	2024-03-14	2025-03-13		
Horn Antenna	Rohde&Schwarz HF907 SEM003-0		SEM003-07	2023-07-23	2025-07-22		
Microwave system amplifier	Y AMIENI KANTA KA		SEM005-25	2023-09-19	2024-09-18		
Measurement Software AUDIX		e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06		
Coaxial Cable	363	IN/A	3EIVIU20-01	2024-07-06	2025-07-05		
Broad-Band Horn	Schwarzbeck BBHA 9170 SEM003-		SEM003-15	2023-08-11	2024-08-10		



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Antenna				2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-15 2024-03-14	2024-03-14 2025-03-13

General used equipmen	t				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature	emperature		SEM002-32	2023-07-25	2024-07-24
Indicator	deli	8838	SEIVIUUZ-32	2024-07-24	2025-07-23
Humidity/ Temperature		8838	CEM000 00	2023-07-25	2024-07-24
Indicator	deli	0030	SEM002-33	2024-07-24	2025-07-23
_	Changchun			2023-03-19	2024-03-18
Barometer	Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

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 Ant1:1.69dBi Ant5:1.98dBi.

Antenna location: Refer to internal photo.



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Radio Spectrum Matter Test Results 7

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

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

Limit:

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 50.5 % RH Atmospheric Pressure: 1000 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description					
Pre-scan	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.					
Final test	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.					



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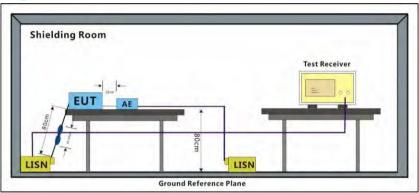
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7.1.3 Test Setup Diagram



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: Level=Read Level+ Cable Loss+ LISN Factor



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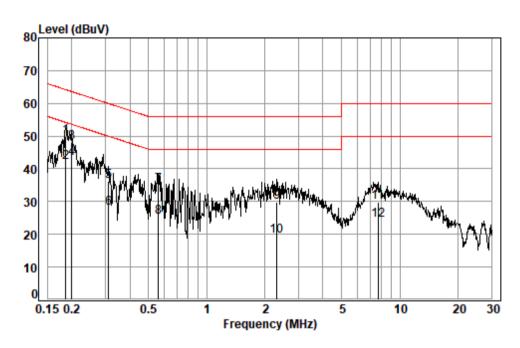


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Test Mode: 06: Line: Live line



: Shielding Room

Condition: Line Job No. : 04019AT

Test mode: 06

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1864	0.02	10.28	39.71	50.01	64.20	-14.19	QP
2	0.1864	0.02	10.28	31.57	41.87	54.20	-12.33	Average
3	0.2007	0.02	10.28	37.76	48.06	63.58	-15.52	QP
4 *	0.2007	0.02	10.28	32.98	43.28	53.58	-10.30	Average
5	0.3100	0.03	10.31	25.98	36.32	59.97	-23.65	QP
6	0.3100	0.03	10.31	17.66	28.00	49.97	-21.97	Average
7	0.5641	0.04	10.34	24.54	34.92	56.00	-21.08	QP
8	0.5641	0.04	10.34	14.88	25.26	46.00	-20.74	Average
9	2.3090	0.07	10.47	19.17	29.71	56.00	-26.29	QP
10	2.3090	0.07	10.47	8.90	19.44	46.00	-26.56	Average
11	7.7278	0.13	11.16	18.57	29.86	60.00	-30.14	QP
12	7.7278	0.13	11.16	13.07	24.36	50.00	-25.64	Average



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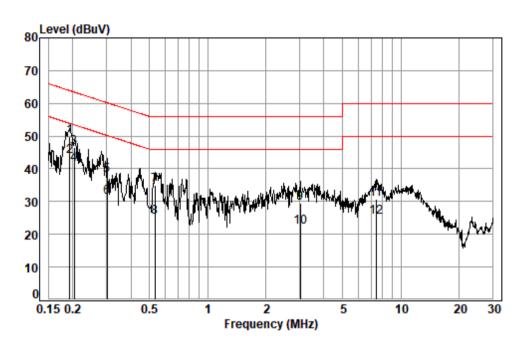


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Test Mode: 06: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 04019AT

Test mode: 06

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1934	0.02	10.25	39.72	49.99	63.89	-13.90	QP
2 *	0.1934	0.02	10.25	33.41	43.68	53.89	-10.21	Average
3	0.2040	0.02	10.25	36.15	46.42	63.45	-17.03	QP
4	0.2040	0.02	10.25	31.21	41.48	53.45	-11.97	Average
5	0.3019	0.03	10.27	27.70	38.00	60.19	-22.19	QP
6	0.3019	0.03	10.27	21.06	31.36	50.19	-18.83	Average
7	0.5322	0.04	10.30	24.79	35.13	56.00	-20.87	QP
8	0.5322	0.04	10.30	15.04	25.38	46.00	-20.62	Average
9	3.0253	0.08	10.64	18.82	29.54	56.00	-26.46	QP
10	3.0253	0.08	10.64	11.33	22.05	46.00	-23.95	Average
11	7.4465	0.13	11.18	19.50	30.81	60.00	-29.19	QP
12	7.4465	0.13	11.18	13.94	25.25	50.00	-24.75	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:

23.2 °C Temperature: Humidity: Atmospheric Pressure: 1000 mbar % RH

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description								
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								



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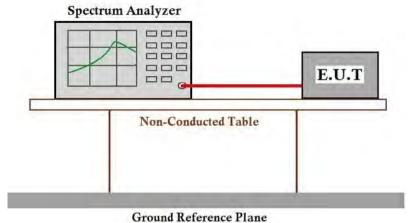


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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

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) Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit:

≥500 kHz

7.3.1 E.U.T. Operation

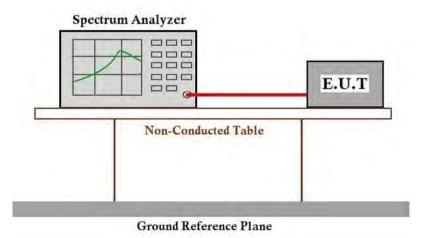
Operating Environment:

Temperature: 23.2 °C Humidity: % RH Atmospheric Pressure: 1000 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and 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

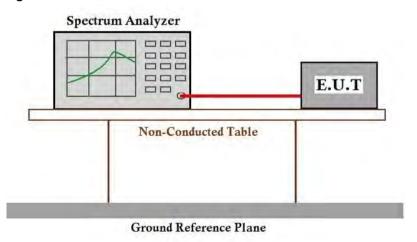
Operating Environment:

Temperature: 23.2 °C Humidity: % RH Atmospheric Pressure: 1000 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	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: 23.2 °C Humidity: % RH Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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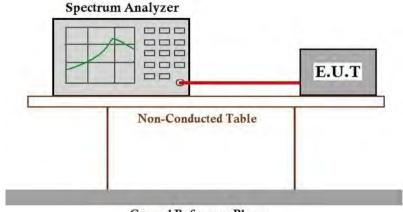


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7.5.3 Test Setup Diagram



Ground Reference Plane

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) Test Method: ANSI C63.10 (2013) Section 11.11

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 Humidity: % RH Atmospheric Pressure: 1000 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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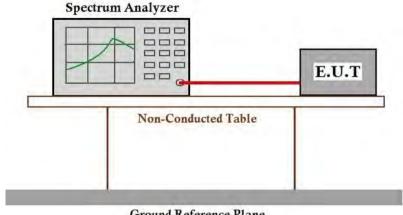


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7.6.3 Test Setup Diagram



Ground Reference Plane

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

Measurement Distance: 3m

Limit:

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

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.0 °C Humidity: 63.8 % RH Atmospheric Pressure: 1000 mbar

7.7.2 Test Mode Description

7.7.2 Test mode Bescription									
Pre-scan / Final test	Mode Code	Description							
Pre-scan	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.							
Pre-scan	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.							
Final test	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.							
Final test	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.							



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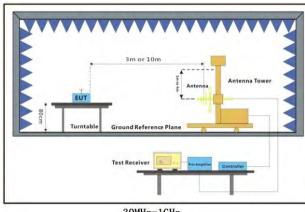


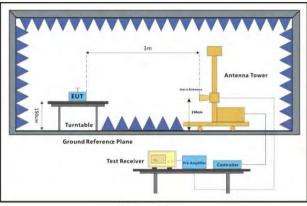
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7.7.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz

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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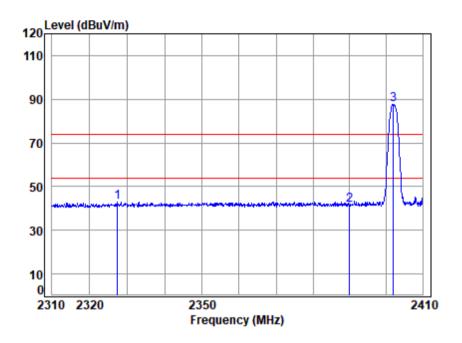


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Test Mode: 05; Polarity: Horizontal; Modulation: GFSK; Channel: Low;



Site : chamber

Condition: 3m HORIZONTAL

Job No : 04019AT

Mode : 2402 Band edge

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2327.393	5.02	28.78	37.59	46.81	43.02	74.00	-30.98	peak
2	2390.000	5.08	29.10	37.44	44.76	41.50	74.00	-32.50	peak
3 q	2402.000	5.09	29.09	37.41	90.63	87.40	74.00	13.40	peak



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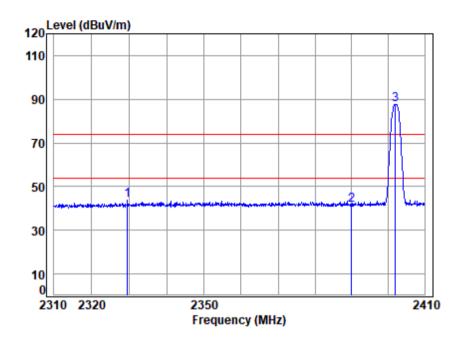


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Test Mode: 05; Polarity: Vertical; Modulation: GFSK; Channel:Low;



Site : chamber

Condition: 3m VERTICAL

Job No : 04019AT

: 2402 Band edge Mode

Note : BLE

	Frea			Preamp Factor					Remark
-				dB				dB	
	2329.564								•
2	2390.000	5.08	29.10	37.44	44.70	41.44	74.00	-32.56	peak
3 q	2402.000	5.09	29.09	37.41	90.91	87.68	74.00	13.68	peak



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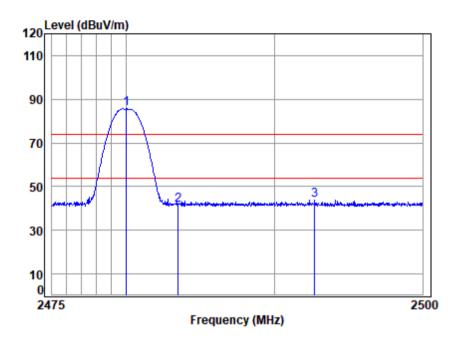


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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 04019AT

Mode : 2480 Band edge

Note : BLE

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2480.000 2483.500								•
	2492.699								•



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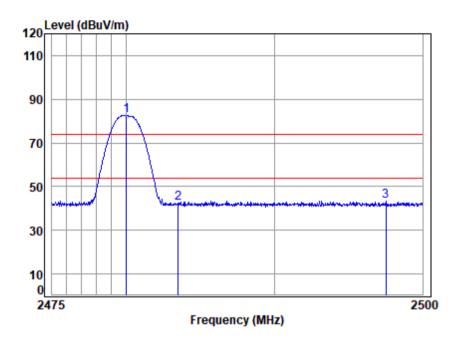


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Test Mode: 05; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

Job No : 04019AT

: 2480 Band edge Mode

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2480.000	5.16	28.90	37.22	85.65	82.49	74.00	8.49	peak
2	2483.500	5.16	28.90	37.22	45.37	42.21	74.00	-31.79	peak
3	2497.514	5.17	28.90	37.18	46.66	43.55	74.00	-30.45	peak



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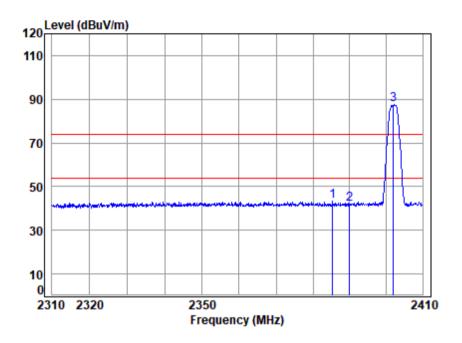


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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: Low;



Site : chamber

Condition: 3m HORIZONTAL

Job No : 04019AT

Mode : 2402 Band edge

Note : BLE

	F			Preamp					Damanla
	Freq	LOSS	Factor	Factor	revei	revel	Line	Limit	Kemark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2385.309	5.07	29.10	37.45	46.48	43.20	74.00	-30.80	peak
2	2390.000	5.08	29.10	37.44	45.31	42.05	74.00	-31.95	peak
3 q	2402.000	5.09	29.09	37.41	90.67	87.44	74.00	13.44	peak



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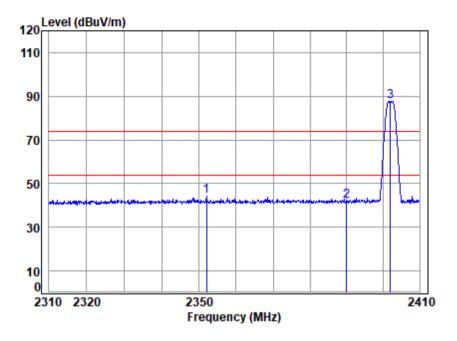


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Test Mode: 06; Polarity: Vertical; Modulation: GFSK; Channel:Low;



Site : chamber

Condition: 3m VERTICAL

Job No : 04019AT

Mode : 2402 Band edge

· RIF Note

ote	. DLI									
		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	2351.983	5.04	29.10	37.53	47.44	44.05	74.00	-29.95	peak	
2	2390.000	5.08	29.10	37.44	45.24	41.98	74.00	-32.02	peak	
3 a	2402.000	5.09	29.09	37.41	90.94	87.71	74.00	13.71	neak	



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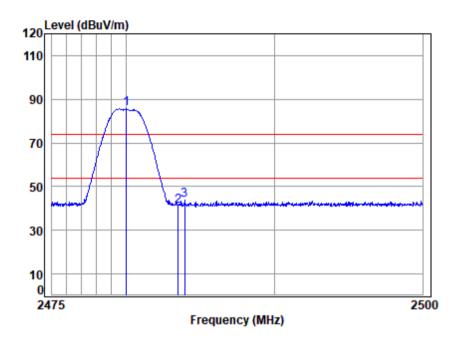


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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 04019AT

Mode : 2480 Band edge

Note : BLE

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB		
1 (2480.000	5.16	28.90	37.22	88.74	85.58	74.00	11.58	peak	
2	2483.500	5.16	28.90	37.22	44.43	41.27	74.00	-32.73	peak	
3	2483.921	5.16	28.90	37.22	46.93	43.77	74.00	-30.23	peak	



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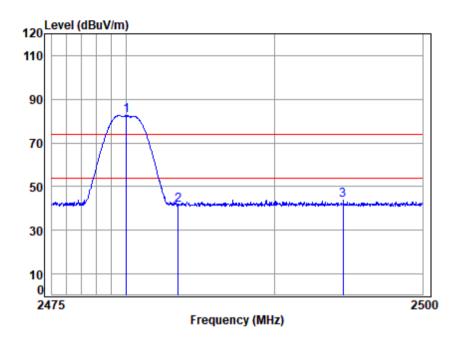


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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 04019AT

Mode : 2480 Band edge

Note : BLE

	_			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2480.000	5.16	28.90	37.22	85.69	82.53	74.00	8.53	peak
2	2483.500	5.16	28.90	37.22	44.71	41.55	74.00	-32.45	peak
3	2494.629	5.17	28.90	37.19	46.75	43.63	74.00	-30.37	peak



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7.8 Radiated Spurious Emissions Below 1GHz

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

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

Measurement Distance: 10m

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: 23.6 °C Humidity: 49.5 % RH Atmospheric Pressure: 1000 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description						
Pre-scan	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.						
Pre-scan	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.						
Final test	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.						
Pre-scan	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.						



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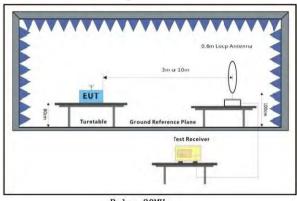


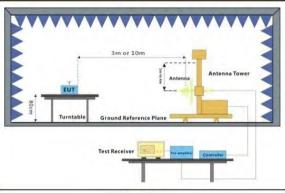
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7.8.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

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.
- 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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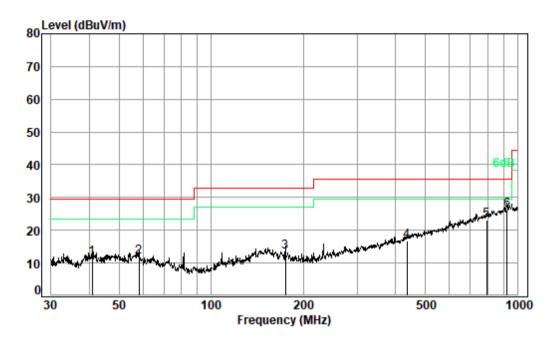


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Test Mode: 05; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 04019AT

Test Mode: 05

	nouc. os								
		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	40.845	26.36	17.14	0.46	32.50	11.46	29.50	-18.04	QP
2	58.203	26.48	17.24	0.54	32.48	11.78	29.50	-17.72	QP
3	175.037	28.60	16.16	1.02	32.40	13.38	33.00	-19.62	QP
4	435.590	26.50	20.81	1.70	32.30	16.71	35.60	-18.89	QP
5	793.396	26.52	26.29	2.44	32.02	23.23	35.60	-12.37	QP
6 p	p 925.756	26.92	28.04	2.60	31.35	26.21	35.60	-9.39	OP



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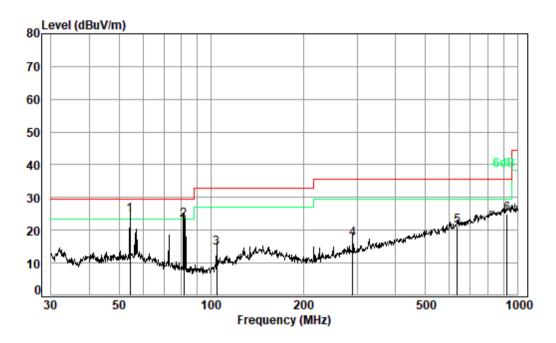


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Test Mode: 05; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 04019AT

Test Mode: 05

icse ne	Juc. UJ									
		Read	Ant	Cable	Preamp		Limit	0ver		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 pp	54.261	39.18	17.28	0.53	32.49	24.50	29.50	-5.00	QP	
2	81.497	42.00	13.04	0.65	32.44	23.25	29.50	-6.25	QP	
3	104.170	32.27	13.91	0.74	32.40	14.52	33.00	-18.48	QP	
4	290.017	30.62	17.54	1.38	32.31	17.23	35.60	-18.37	QP	
5	636.134	27.00	24.46	2.14	32.36	21.24	35.60	-14.36	QP	
6	925.756	25.76	28.04	2.60	31.35	25.05	35.60	-10.55	OP	



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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

Measurement Distance: 3m

Limit:

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

7.9.1 E.U.T. Operation

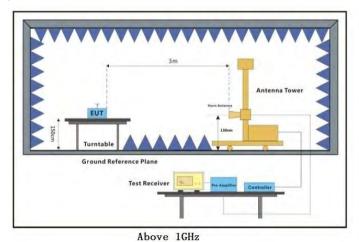
Operating Environment:

Temperature: 22.0 °C Humidity: 63.7 % RH Atmospheric Pressure: 1000 mbar

7.9.2 Test Mode Description

	- Took mode becomplien									
Pre-scan / Final test	Mode Code	Description								
Pre-scan	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								
Pre-scan	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								
Final test	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.								
Final test	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.								

7.9.3 Test Setup Diagram





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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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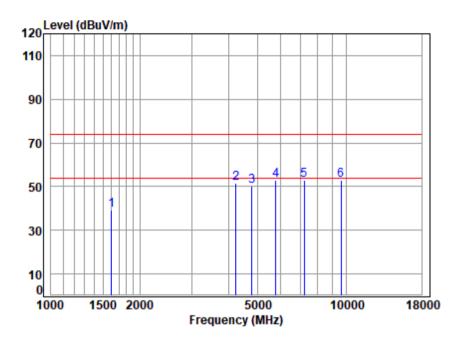


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Test Mode: 05; Polarity: Horizontal; Modulation: GFSK; Channel: Low;



Site : chamber

Condition: 3m HORIZONTAL

Job No : 04019AT

Mode : 2402 TX RSE

: BLE

		Freq			Preamp Factor		Level			Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1606.441	3.38	26.53	36.62	45.95	39.24	74.00	-34.76	peak
2		4230.396	6.51	33.52	34.49	45.95	51.49	74.00	-22.51	peak
3		4804.000	7.04	33.82	34.86	44.18	50.18	74.00	-23.82	peak
4		5780.300	7.97	34.56	35.03	45.39	52.89	74.00	-21.11	peak
5		7206.000	8.52	35.80	35.95	44.50	52.87	74.00	-21.13	peak
6	q	9608.000	10.39	37.10	35.55	40.99	52.93	74.00	-21.07	peak



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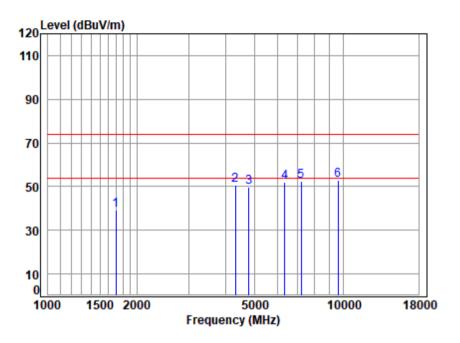


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200401903

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Test Mode: 05; Polarity: Vertical; Modulation: GFSK; Channel:Low;



Site : chamber

Condition: 3m VERTICAL

Job No : 04019AT

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	1697.129	3.49	26.79	36.41	45.46	39.33	74.00	-34.67	peak
2	4316.859	6.60	33.60	34.55	44.80	50.45	74.00	-23.55	peak
3	4804.000	7.04	33.82	34.86	43.61	49.61	74.00	-24.39	peak
4	6340.436	8.22	35.20	35.35	43.74	51.81	74.00	-22.19	peak
5	7206.000	8.52	35.80	35.95	44.00	52.37	74.00	-21.63	peak
6	q 9608.000	10.39	37.10	35.55	41.12	53.06	74.00	-20.94	peak



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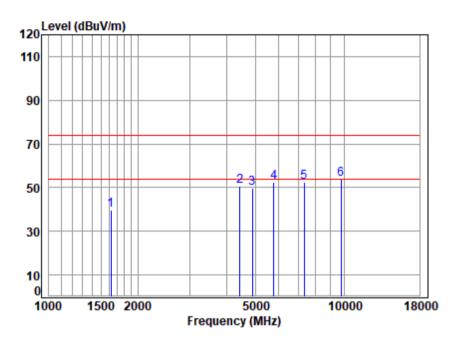


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200401903

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Test Mode: 05; Polarity: Horizontal; Modulation: GFSK; Channel: middle;



Site : chamber

Condition: 3m HORIZONTAL

Job No : 04019AT

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	1620.431	3.39	26.58	36.58	46.43	39.82	74.00	-34.18	peak
2	4430.628	6.71	33.50	34.63	45.14	50.72	74.00	-23.28	peak
3	4880.000	7.11	34.06	34.91	43.68	49.94	74.00	-24.06	peak
4	5780.300	7.97	34.56	35.03	44.85	52.35	74.00	-21.65	peak
5	7320.000	8.62	35.90	35.97	43.97	52.52	74.00	-21.48	peak
6	q 9760.000	10.45	37.20	35.56	41.64	53.73	74.00	-20.27	peak



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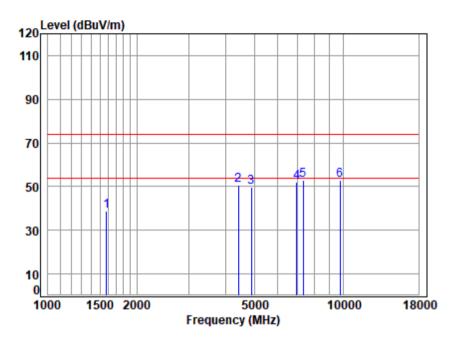


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200401903

Page: 44 of 106

Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:middle;



Site : chamber

Condition: 3m VERTICAL

Job No : 04019AT

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	1578.822	3.34	26.25	36.68	45.72	38.63	74.00	-35.37	peak
2	4417.841	6.69	33.50	34.62	44.87	50.44	74.00	-23.56	peak
3	4880.000	7.11	34.06	34.91	43.31	49.57	74.00	-24.43	peak
4	6954.852	8.31	35.71	35.87	44.06	52.21	74.00	-21.79	peak
5	q 7320.000	8.62	35.90	35.97	44.56	53.11	74.00	-20.89	peak
6	9760.000	10.45	37.20	35.56	40.85	52.94	74.00	-21.06	peak



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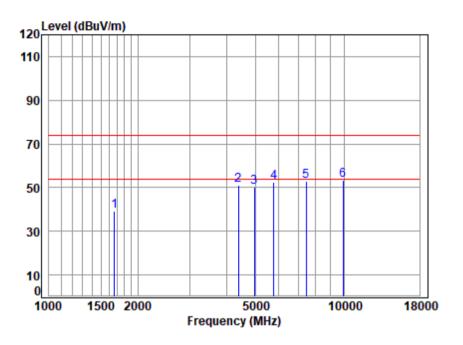


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200401903

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Test Mode: 05; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 04019AT

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	1667.951	3.45	26.74	36.47	45.66	39.38	74.00	-34.62	peak
2	4392.376	6.67	33.52	34.60	45.36	50.95	74.00	-23.05	peak
3	4960.000	7.18	34.22	34.96	43.94	50.38	74.00	-23.62	peak
4	5780.300	7.97	34.56	35.03	44.93	52.43	74.00	-21.57	peak
5	7440.000	8.73	35.90	35.99	44.26	52.90	74.00	-21.10	peak
6	q 9920.000	10.52	37.30	35.57	41.35	53.60	74.00	-20.40	peak



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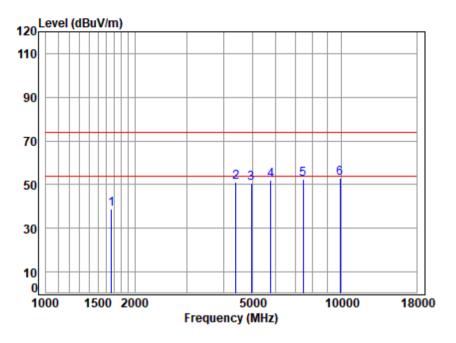


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200401903

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Test Mode: 05; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

Job No : 04019AT

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	1667.951	3.45	26.74	36.47	45.26	38.98	74.00	-35.02	peak
2	4405.090	6.68	33.50	34.61	45.49	51.06	74.00	-22.94	peak
3	4960.000	7.18	34.22	34.96	44.41	50.85	74.00	-23.15	peak
4	5780.300	7.97	34.56	35.03	44.71	52.21	74.00	-21.79	peak
5	7440.000	8.73	35.90	35.99	43.97	52.61	74.00	-21.39	peak
6	q 9920.000	10.52	37.30	35.57	40.63	52.88	74.00	-21.12	peak



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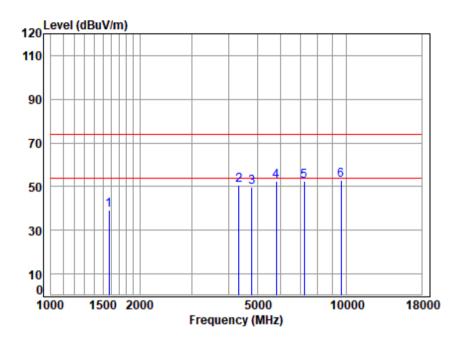


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200401903

Page: 47 of 106

Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: Low;



Site : chamber

Condition: 3m HORIZONTAL

Job No : 04019AT

Mode : 2402 TX RSE

: BLE 2M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1574.265	3.34	26.19	36.69	46.38	39.22	74.00	-34.78	peak
2	4341.886	6.62	33.60	34.57	45.01	50.66	74.00	-23.34	peak
3	4804.000	7.04	33.82	34.86	43.78	49.78	74.00	-24.22	peak
4	5797.032	7.98	34.59	35.03	44.91	52.45	74.00	-21.55	peak
5	7206.000	8.52	35.80	35.95	44.23	52.60	74.00	-21.40	peak
	9608.000	10.39	37.10	35.55	41.17	53.11	74.00	-20.89	peak



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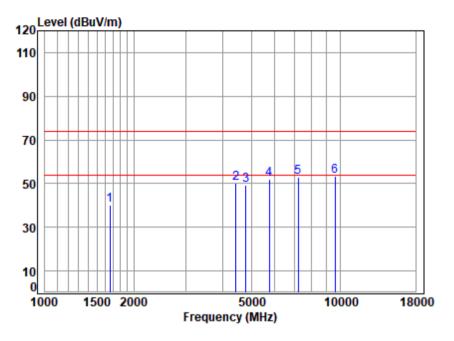


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200401903

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Test Mode: 06; Polarity: Vertical; Modulation: GFSK; Channel:Low;



Site : chamber

Condition: 3m VERTICAL

Job No : 04019AT

Mode : 2402 TX RSE

: BLE 2M

			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	1663.137	3.45	26.73	36.48	46.64	40.34	74.00	-33.66	peak
	2	4443.453	6.72	33.50	34.64	44.57	50.15	74.00	-23.85	peak
	3	4804.000	7.04	33.82	34.86	43.17	49.17	74.00	-24.83	peak
4	4	5746.982	7.94	34.50	35.03	44.46	51.87	74.00	-22.13	peak
	5	7206.000	8.52	35.80	35.95	44.47	52.84	74.00	-21.16	peak
-	6 q	9608.000	10.39	37.10	35.55	41.36	53.30	74.00	-20.70	peak



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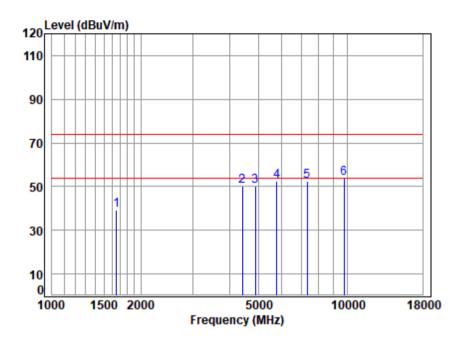


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200401903

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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: middle;



Site : chamber

Condition: 3m HORIZONTAL

Job No : 04019AT

Mode : 2440 TX RSE

: BLE 2M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1653.550	3.43	26.71	36.51	45.60	39.23	74.00	-34.77	peak
2	4417.841	6.69	33.50	34.62	44.85	50.42	74.00	-23.58	peak
3	4880.000	7.11	34.06	34.91	43.72	49.98	74.00	-24.02	peak
4	5780.300	7.97	34.56	35.03	45.07	52.57	74.00	-21.43	peak
5	7320.000	8.62	35.90	35.97	43.70	52.25	74.00	-21.75	peak
6 0	9760.000								•



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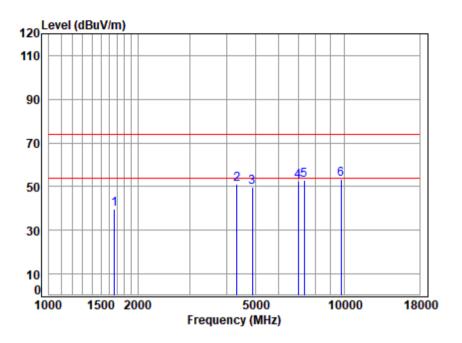


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200401903

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Test Mode: 06; Polarity: Vertical; Modulation: GFSK; Channel: middle;



Site : chamber

Condition: 3m VERTICAL

Job No : 04019AT

Mode : 2440 TX RSE

: BLE 2M

		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	1667.951	3.45	26.74	36.47	45.87	39.59	74.00	-34.41	peak
2	4341.886	6.62	33.60	34.57	45.33	50.98	74.00	-23.02	peak
3	4880.000	7.11	34.06	34.91	43.61	49.87	74.00	-24.13	peak
4	6974.982	8.32	35.75	35.89	44.26	52.44	74.00	-21.56	peak
5	7320.000	8.62	35.90	35.97	44.42	52.97	74.00	-21.03	peak
6	q 9760.000	10.45	37.20	35.56	41.46	53.55	74.00	-20.45	peak



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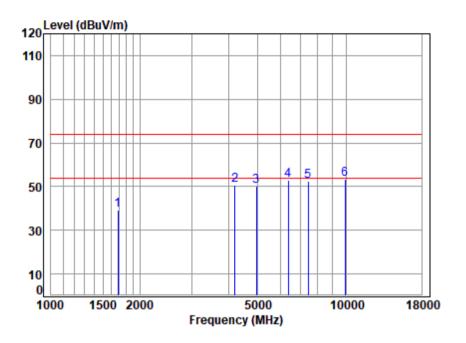


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200401903

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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 04019AT

Mode : 2480 TX RSE

: BLE 2M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1687.347	3.47	26.77	36.43	45.66	39.47	74.00	-34.53	peak
2	4206.011	6.49	33.42	34.48	45.10	50.53	74.00	-23.47	peak
3	4960.000	7.18	34.22	34.96	43.58	50.02	74.00	-23.98	peak
4	6358.789	8.22	35.22	35.37	44.64	52.71	74.00	-21.29	peak
5	7440.000	8.73	35.90	35.99	44.05	52.69	74.00	-21.31	peak
6 q	9920.000	10.52	37.30	35.57	41.01	53.26	74.00	-20.74	peak



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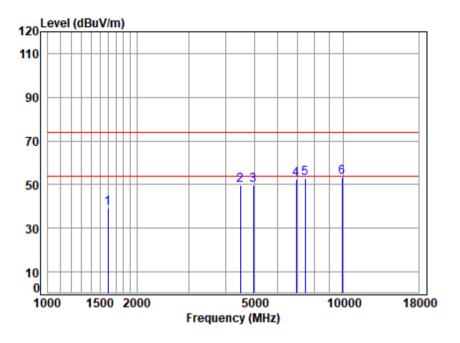


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Test Mode: 06; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

Job No : 04019AT

Mode : 2480 TX RSE

: BLE 2M

		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	1597.181	3.37	26.47	36.64	45.90	39.10	74.00	-34.90	peak
2	4495.125	6.77	33.50	34.67	44.34	49.94	74.00	-24.06	peak
3	4960.000	7.18	34.22	34.96	43.38	49.82	74.00	-24.18	peak
4	6934.778	8.31	35.67	35.86	44.42	52.54	74.00	-21.46	peak
5	7440.000	8.73	35.90	35.99	44.49	53.13	74.00	-20.87	peak
6	q 9920.000	10.52	37.30	35.57	41.36	53.61	74.00	-20.39	peak



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Test Setup Photo 8

Refer to Appendix - Test Setup Photo for SZCR2312004019AT

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2312004019AT



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10 Appendix

Remark: the following test data is for ant5:

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

	Ant1											
Mode	ode TX Frequ Type (MF		T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)					
	SISO	2402	0.394	0.625	63.04	2.00	0.05					
1M		2440	0.394	0.625	63.04	2.00	0.00					
		2480	0.394	0.625	63.04	2.00	0.03					
		2402	0.210	0.625	33.60	4.74	0.00					
2M	SISO	2440	0.210	0.625	33.60	4.74	0.00					
		2480	0.210	0.625	33.60	4.74	0.00					



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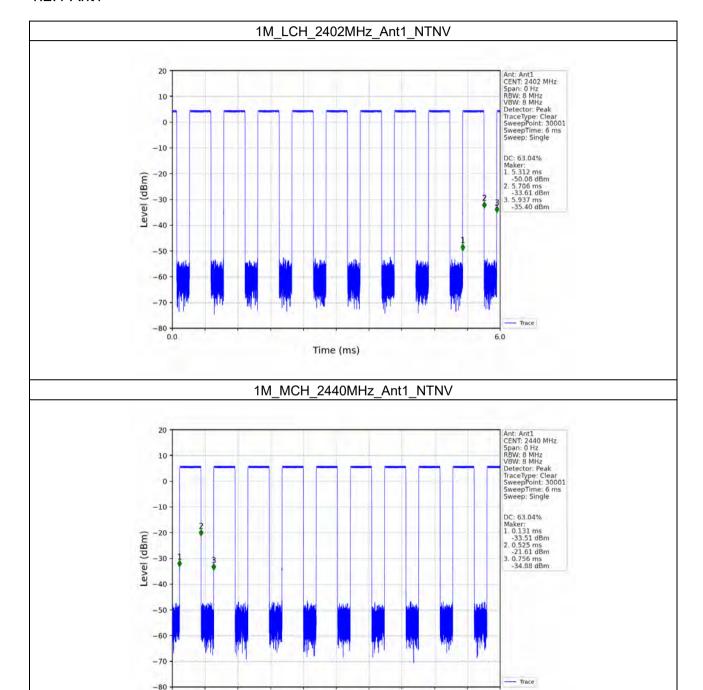
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1.2 Test Graph

1.2.1 Ant1





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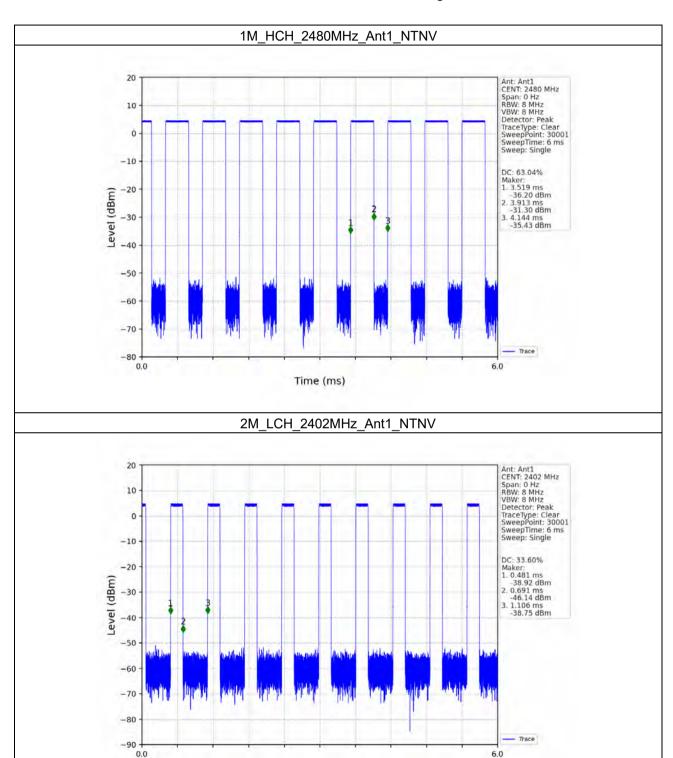
Time (ms)



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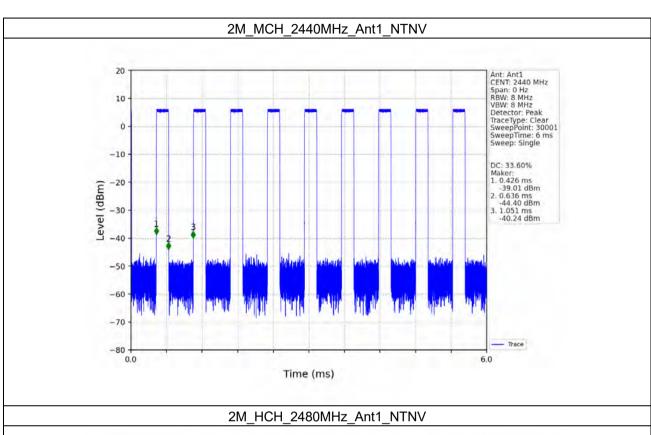
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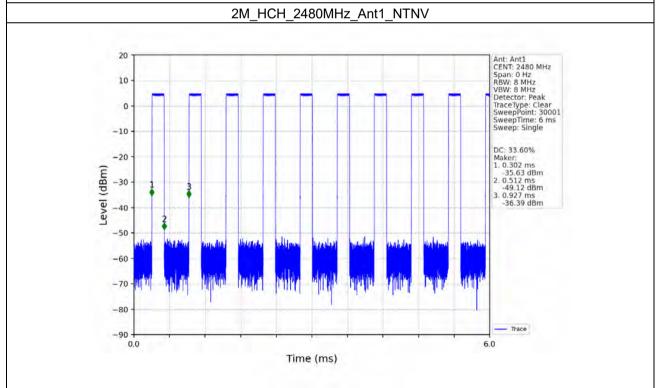


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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency	ANT	99% Occupied E	Verdict	
Mode		(MHz)	AINT	Result	Limit	verdict
1M	SISO	2402	1	1.029	1	Pass
		2440	1	1.027	1	Pass
		2480	1	1.027	1	Pass
		2402	1	2.028	1	Pass
2M	SISO	2440	1	2.030	1	Pass
		2480	1	2.031	1	Pass

2.1.2 6dB BW

Mada	TX	Frequency	ANIT	6dB Bandv	Verdict		
Mode	Туре	(MHz)	ANT	Result	Limit	verdict	
	SISO	2402	1	0.665	>=0.5	Pass	
1M		2440	1	0.660	>=0.5	Pass	
		2480	1	0.664	>=0.5	Pass	
	SISO	2402	1	1.137	>=0.5	Pass	
2M		2440	1	1.141	>=0.5	Pass	
		2480	1	1.136	>=0.5	Pass	



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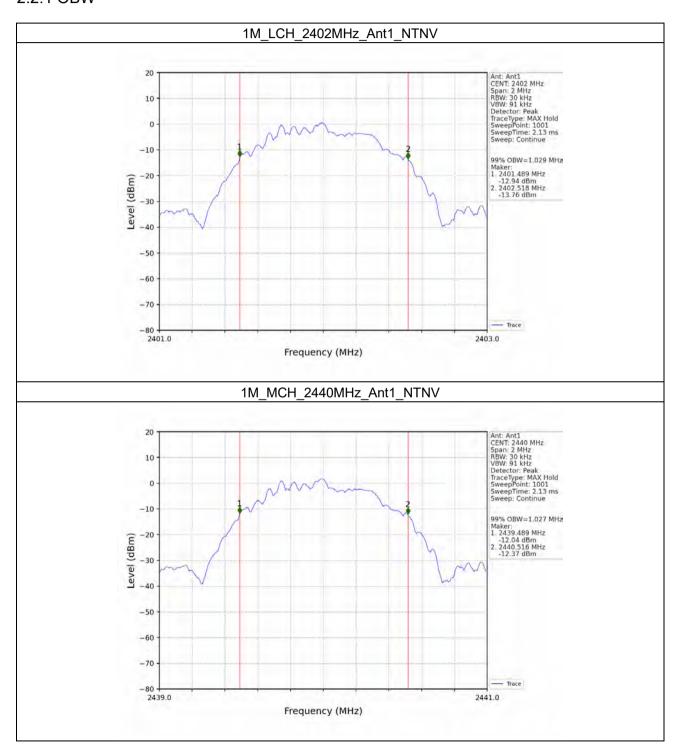
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2.2 Test Graph

2.2.1 OBW





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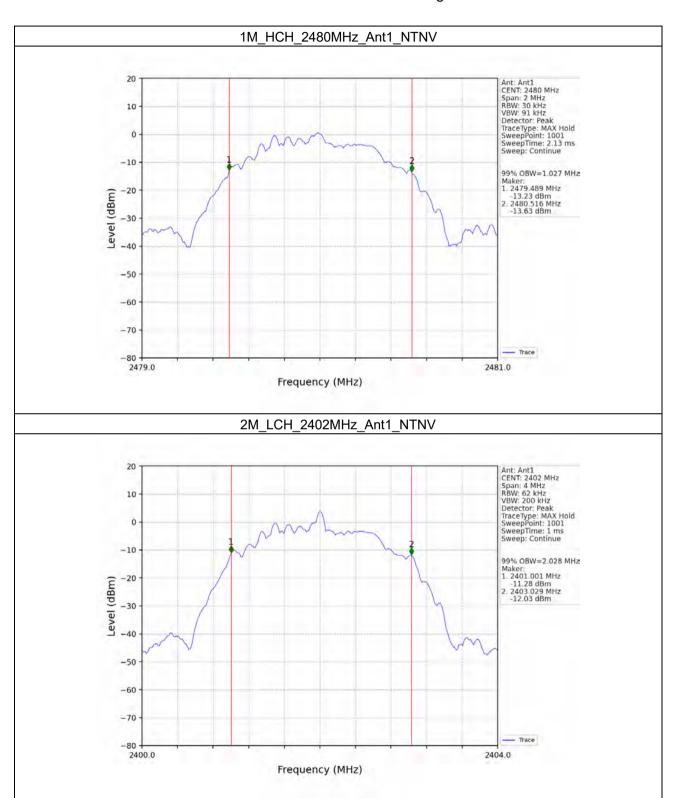
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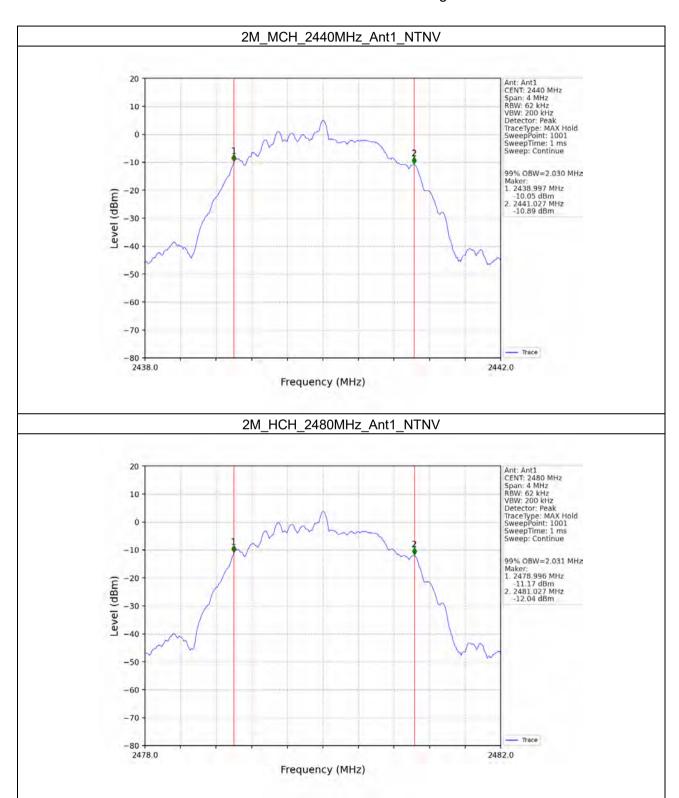
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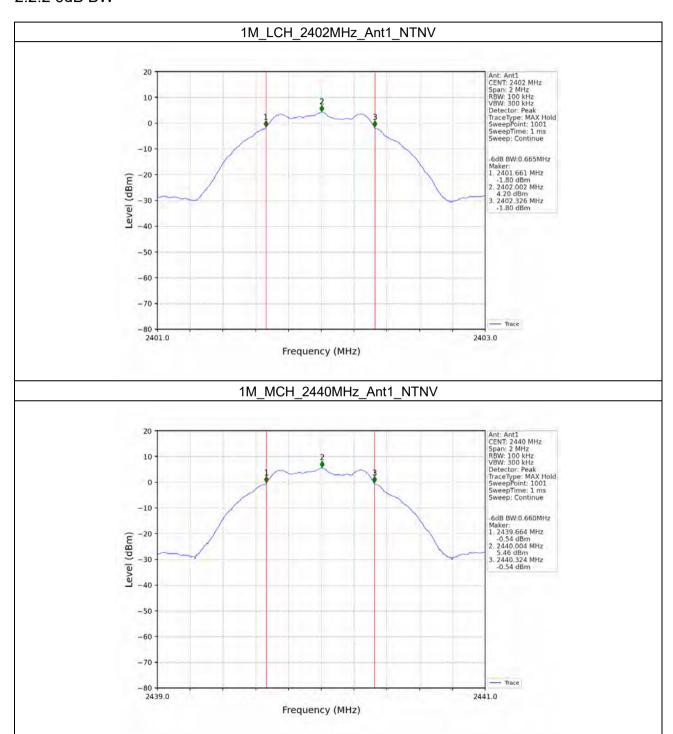


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2 2 2 6dB BW





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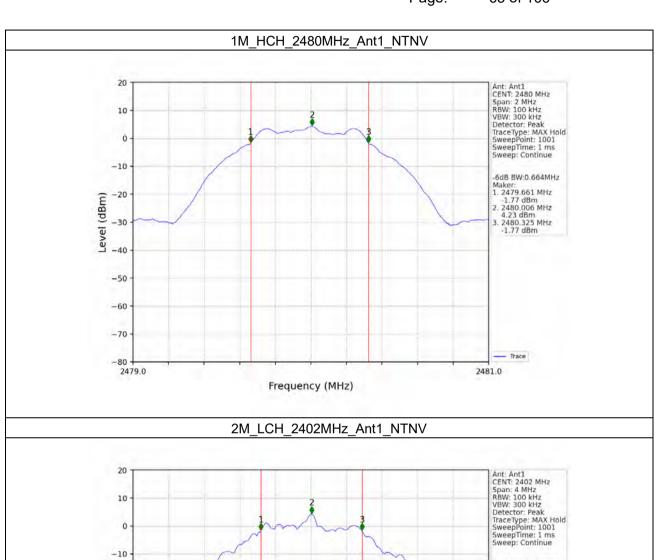
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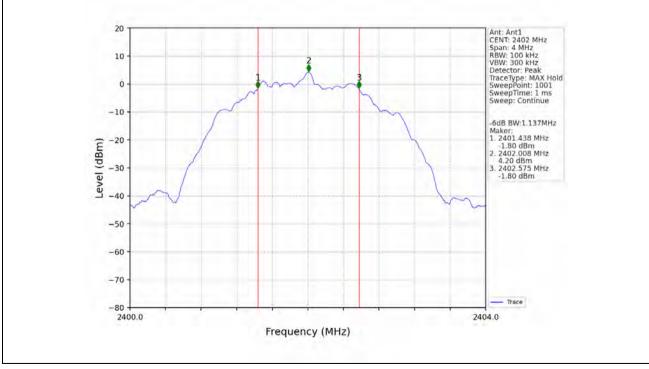


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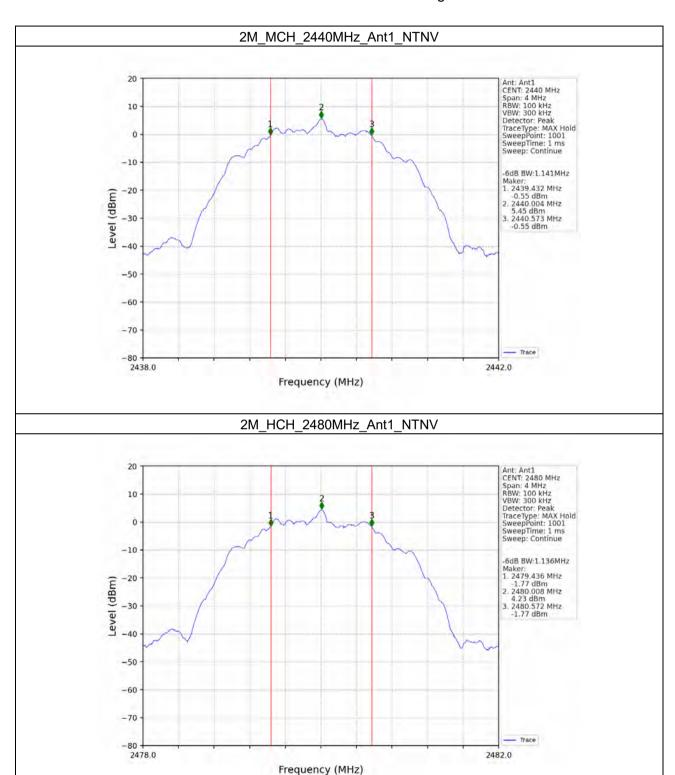
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX	Frequency	Maximum Peak Conduc	ted Output Power (dBm)	Verdict
Mode	Type	(MHz)	ANT1	Limit	verdict
	SISO	2402	4.51	<=30	Pass
1M		2440	5.75	<=30	Pass
		2480	4.49	<=30	Pass
	SISO	2402	4.60	<=30	Pass
2M		2440	5.86	<=30	Pass
		2480	4.64	<=30	Pass



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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mada	TX	Frequency	Maximum PS	D (dBm/3kHz)	Verdict
Mode	Type	(MHz)	ANT1	Limit	verdict
		2402	-10.21	<=8	Pass
1M	SISO	2440	-8.97	<=8	Pass
		2480	-10.24	<=8	Pass
		2402	-12.96	<=8	Pass
2M	SISO	2440	-11.83	<=8	Pass
		2480	-12.86	<=8	Pass



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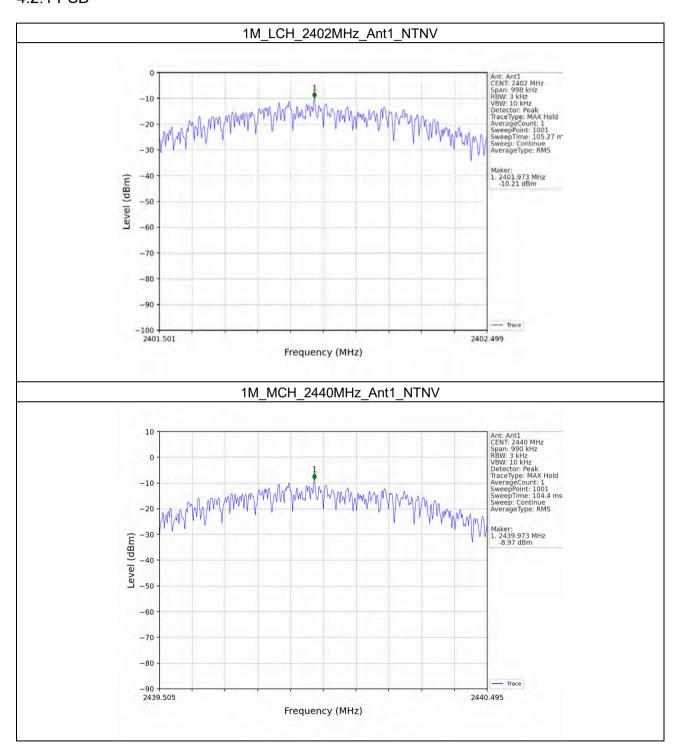
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4.2 Test Graph

4.2.1 PSD





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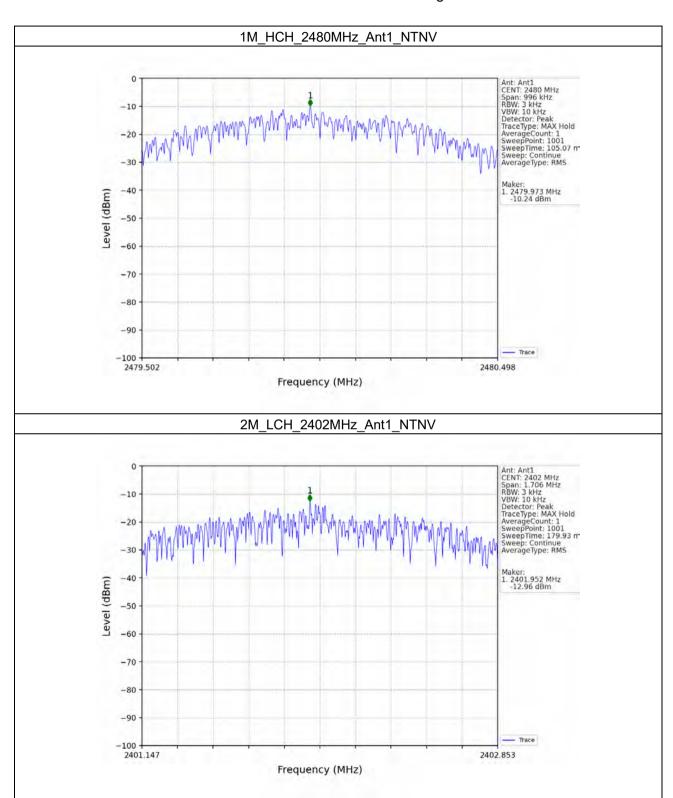
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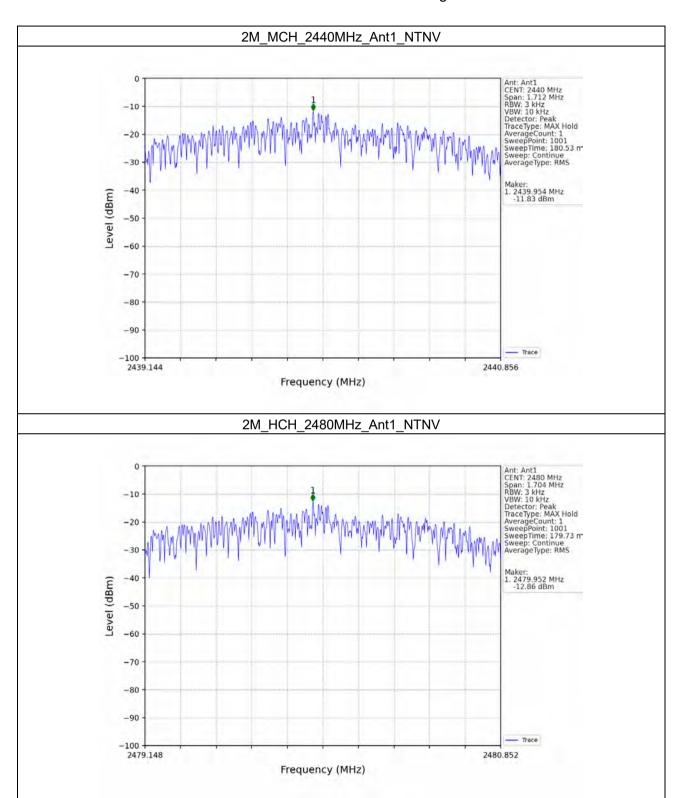
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2402	1	4.21
1M	SISO	2440	1	5.45
		2480	1	4.22
		2402	1	4.19
2M	SISO	2440	1	5.44
		2480	1	4.22

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
	SISO	2402	1	5.45	-14.55	Pass
1M		2440	1	5.45	-14.55	Pass
		2480	1	5.45	-14.55	Pass
	SISO	2402	1	5.44	-14.56	Pass
2M		2440	1	5.44	-14.56	Pass
		2480	1	5.44	-14.56	Pass



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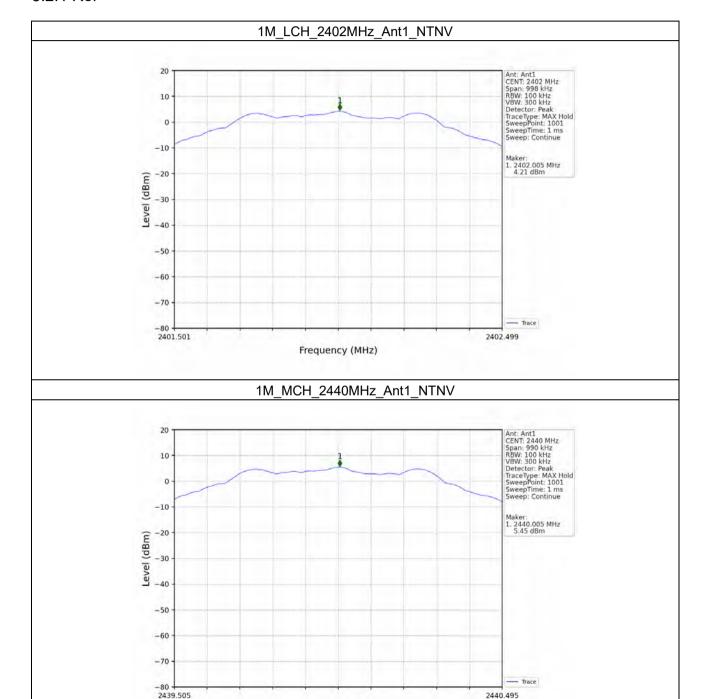
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5.2 Test Graph

5.2.1 Ref





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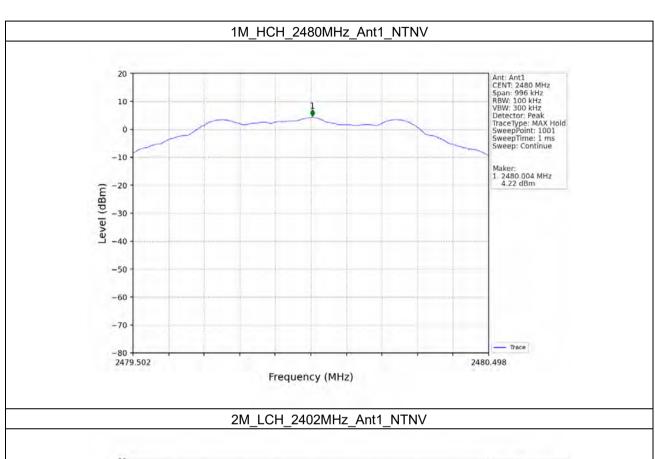
Frequency (MHz)

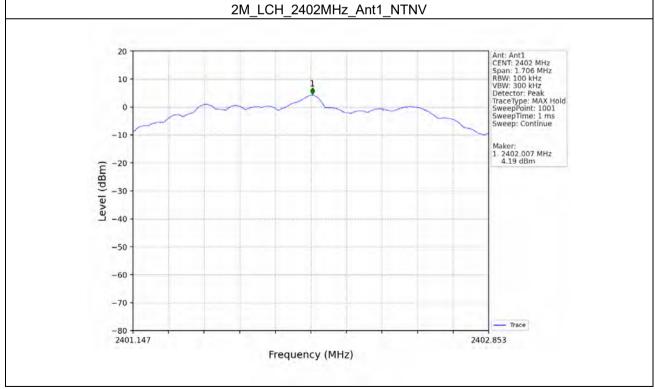


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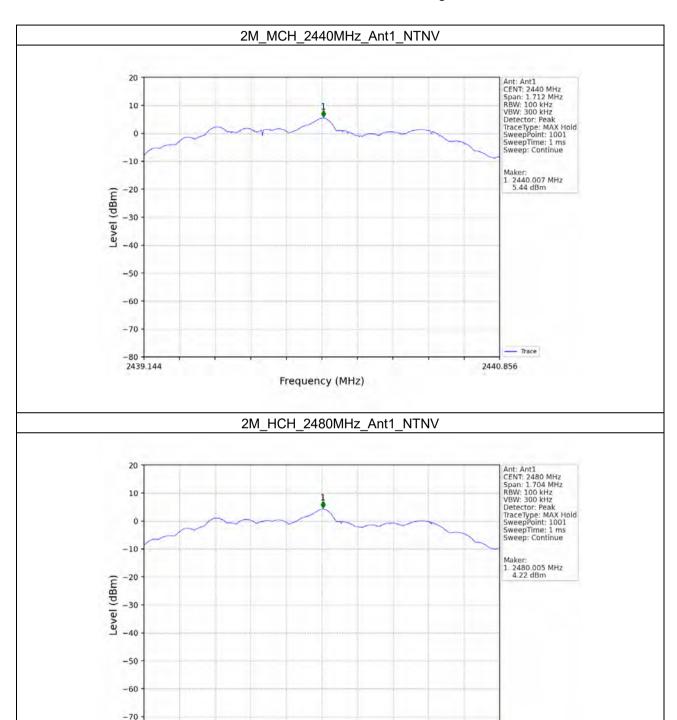
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Frequency (MHz)

- Trace

2480.852

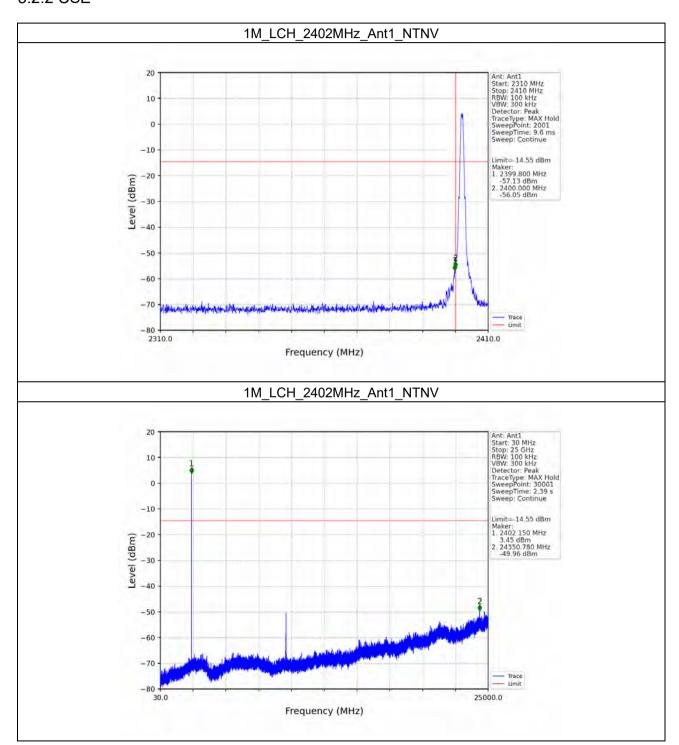


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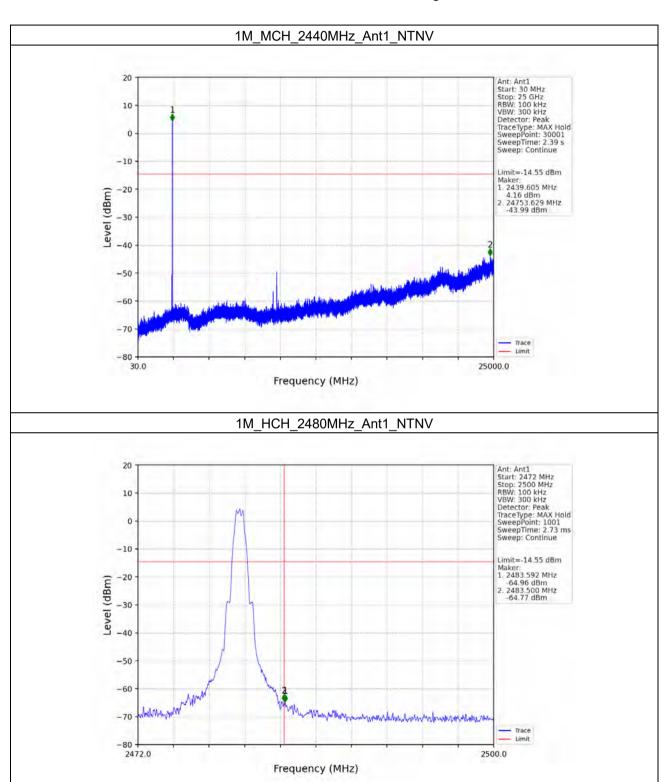
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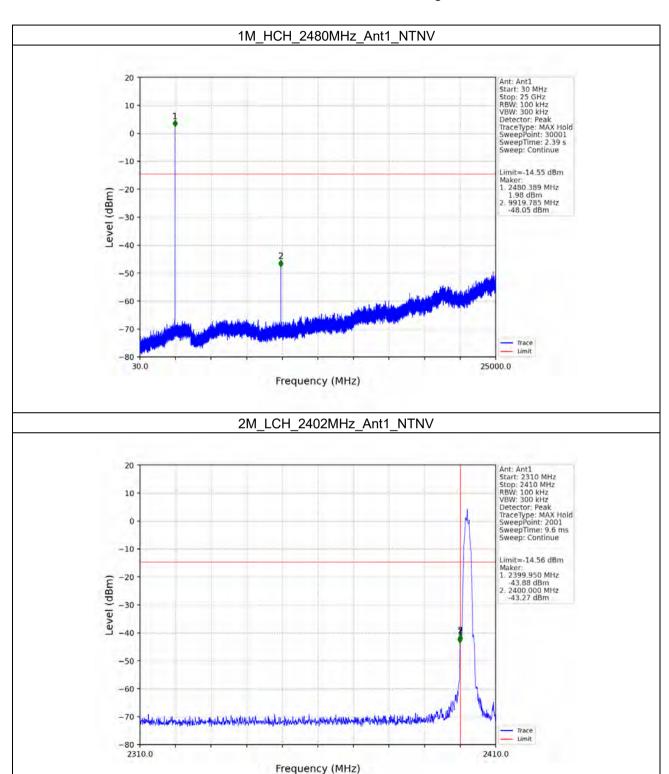
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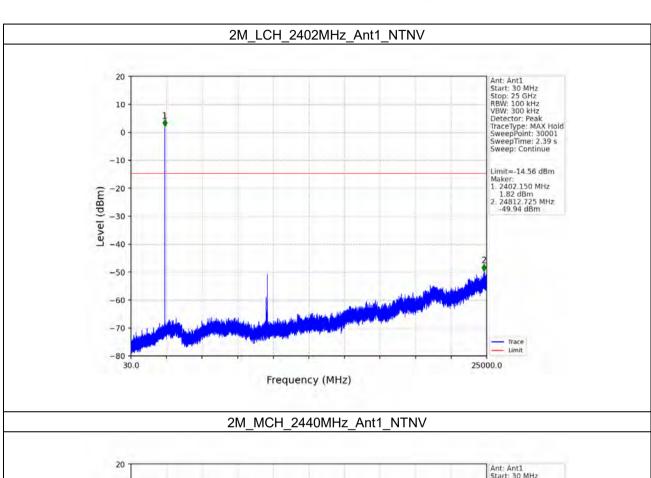
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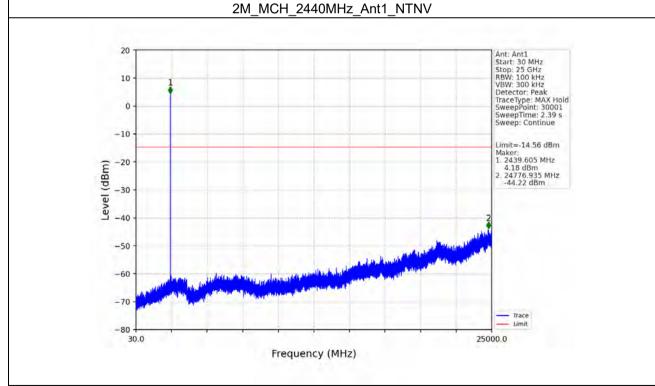


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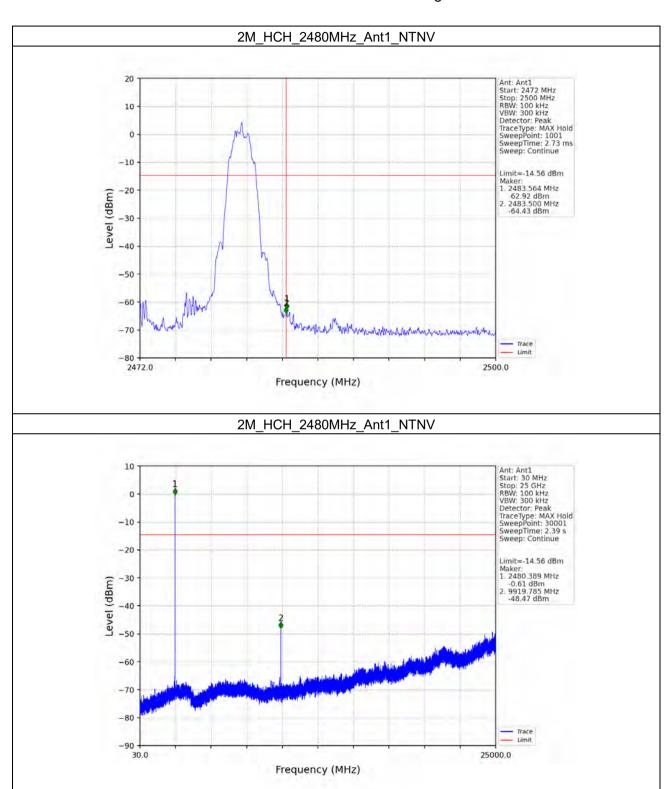
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Remark: the following test data is for ant1:

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1								
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)	
1M	SISO	2402	0.394	0.625	63.04	2.00	0.03	
		2440	0.394	0.625	63.04	2.00	0.03	
		2480	0.394	0.625	63.04	2.00	0.00	
	SISO	2402	0.210	0.625	33.60	4.74	0.00	
2M		2440	0.210	0.625	33.60	4.74	0.01	
		2480	0.210	0.625	33.60	4.74	0.00	



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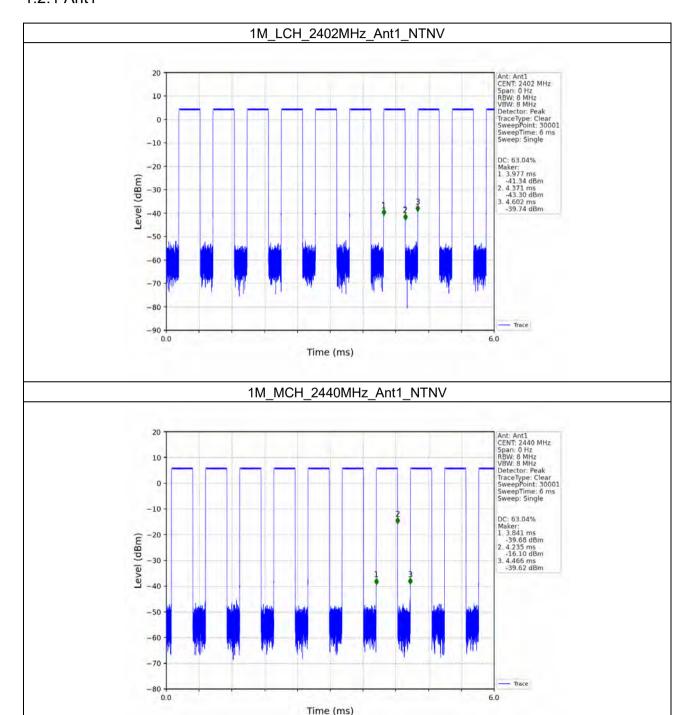
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1.2 Test Graph

1.2.1 Ant1





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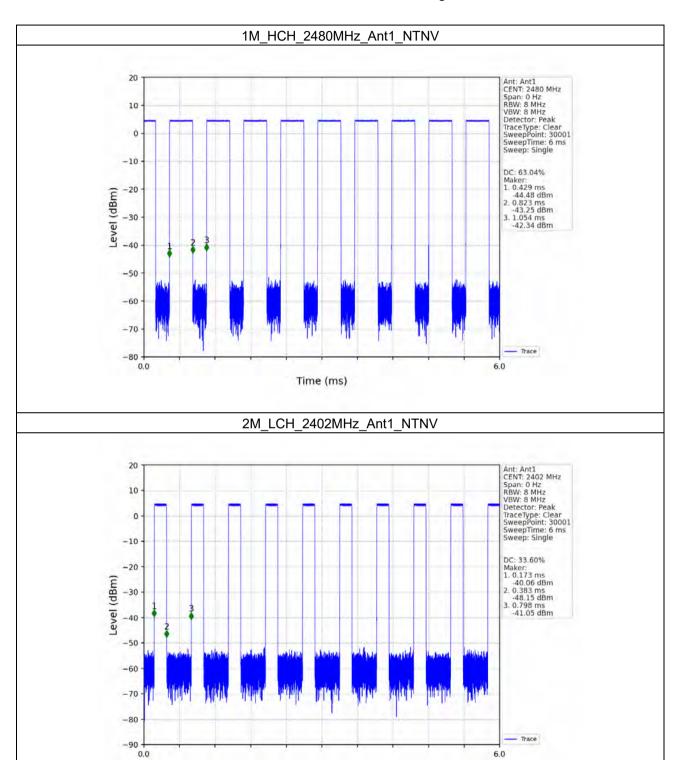
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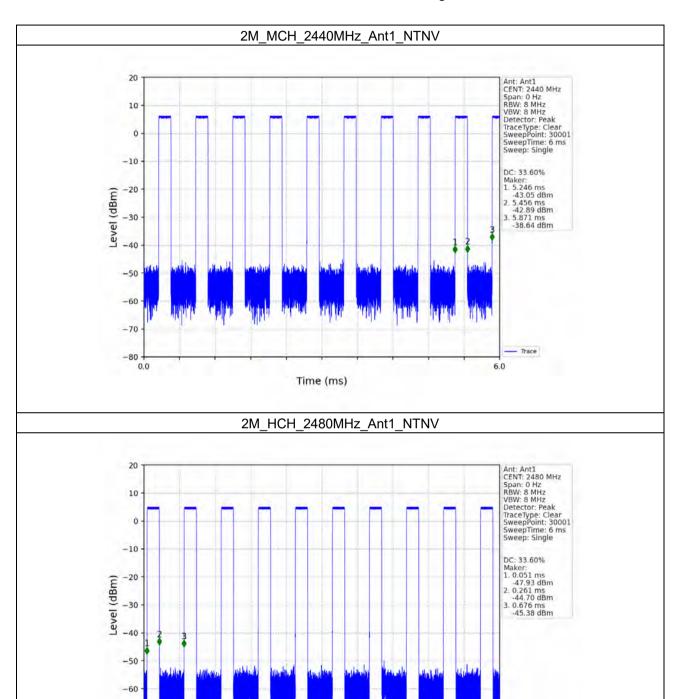
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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANIT	99% Occupied E	\/amdiat	
			ANT	Result	Limit	Verdict
1M	SISO	2402	1	1.029	1	Pass
		2440	1	1.026	1	Pass
		2480	1	1.027	1	Pass
2M	SISO	2402	1	2.031	1	Pass
		2440	1	2.031	1	Pass
		2480	1	2.032	1	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANIT	6dB Bandv	Mandiat	
			ANT	Result	Limit	Verdict
	SISO	2402	1	0.666	>=0.5	Pass
1M		2440	1	0.663	>=0.5	Pass
		2480	1	0.664	>=0.5	Pass
	SISO	2402	1	1.133	>=0.5	Pass
2M		2440	1	1.141	>=0.5	Pass
		2480	1	1.140	>=0.5	Pass



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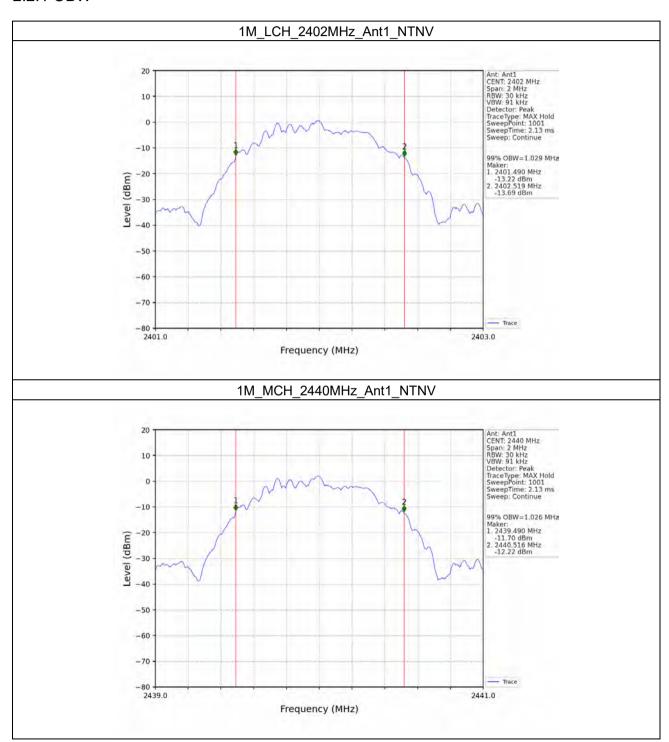
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2.2 Test Graph

2.2.1 OBW





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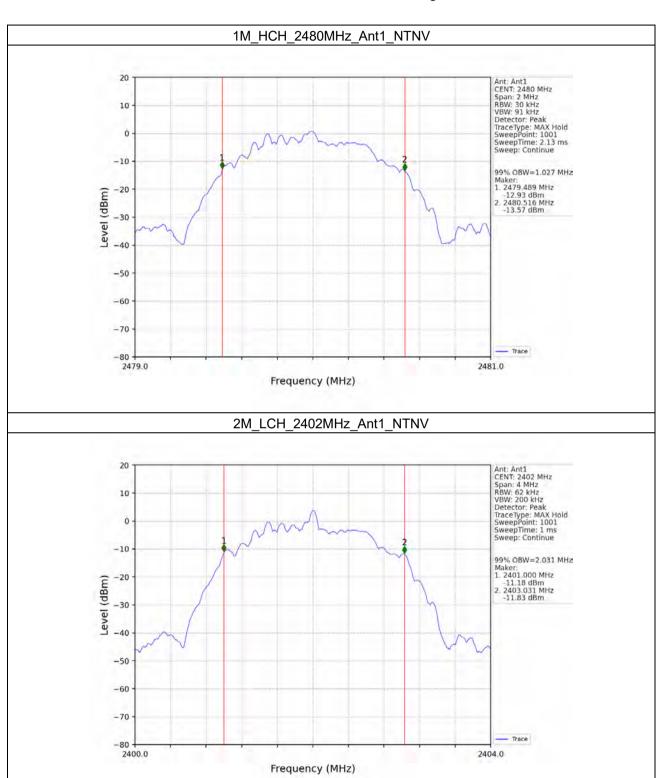
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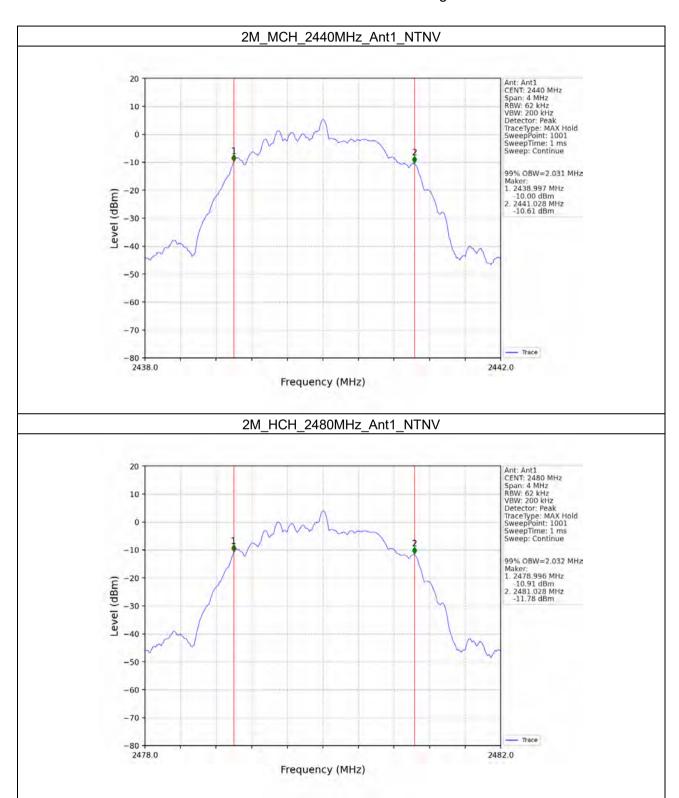
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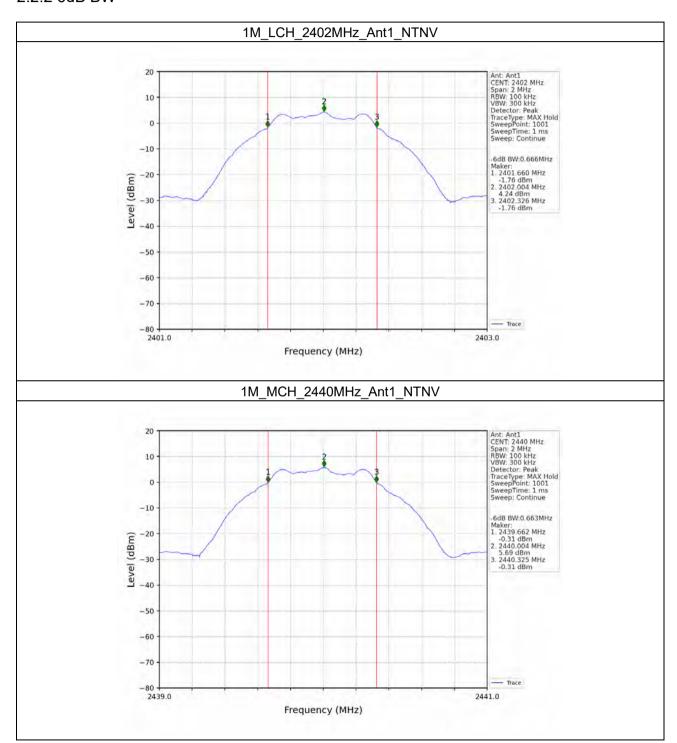


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2 2 2 6dB BW





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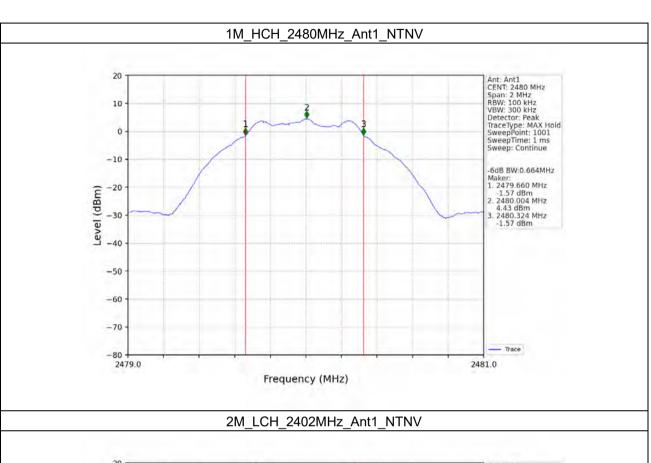
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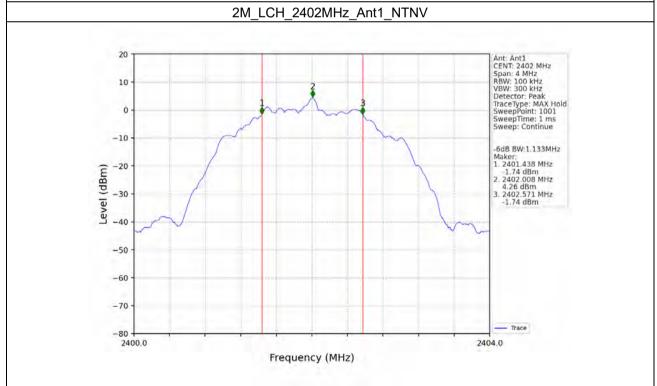


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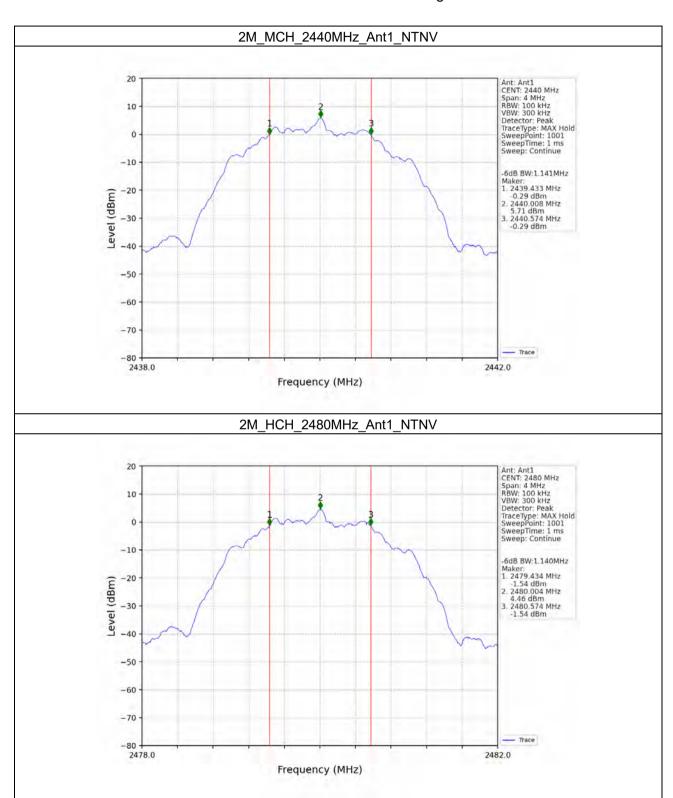
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX	Frequency (MHz)	Maximum Peak Conduc	Mandiat	
	Type		ANT1	Limit	Verdict
		2402	4.52	<=30	Pass
1M	SISO	2440	5.94	<=30	Pass
		2480	4.71	<=30	Pass
	SISO	2402	4.58	<=30	Pass
2M		2440	6.05	<=30	Pass
		2480	4.81	<=30	Pass



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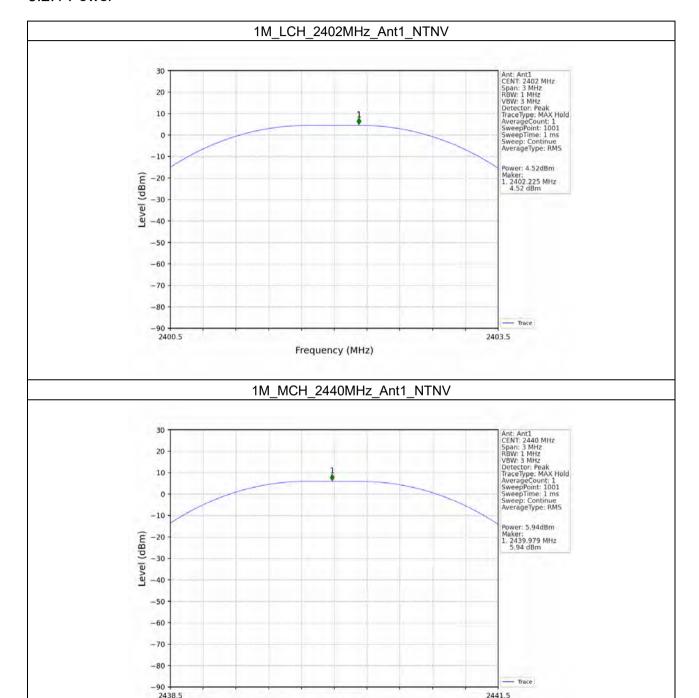
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3.2 Test Graph

3.2.1 Power





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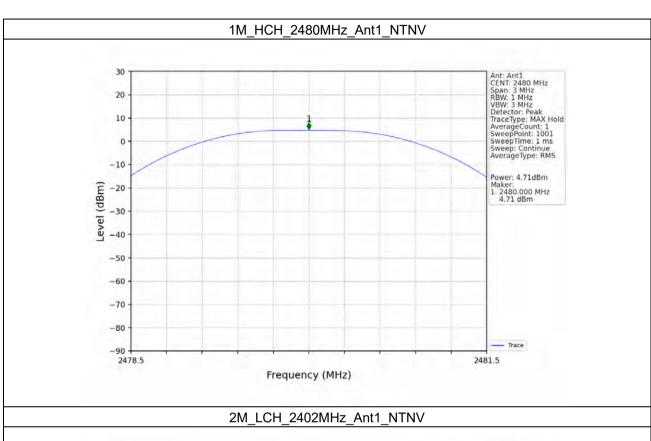
Frequency (MHz)

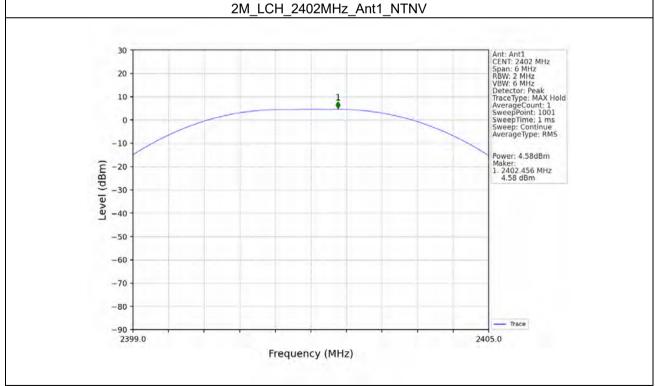


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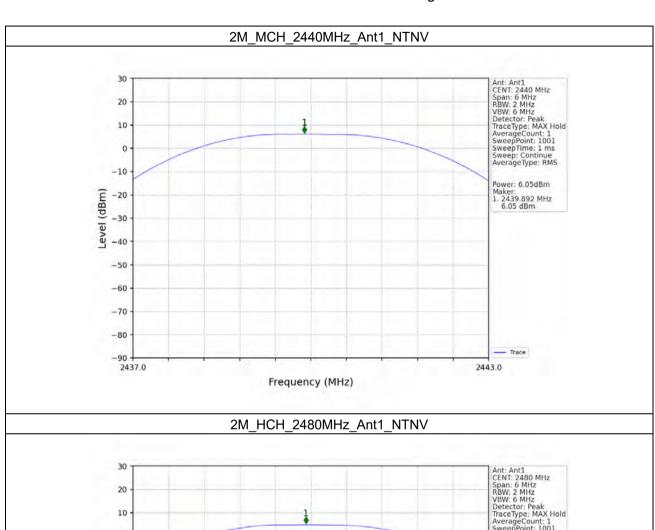
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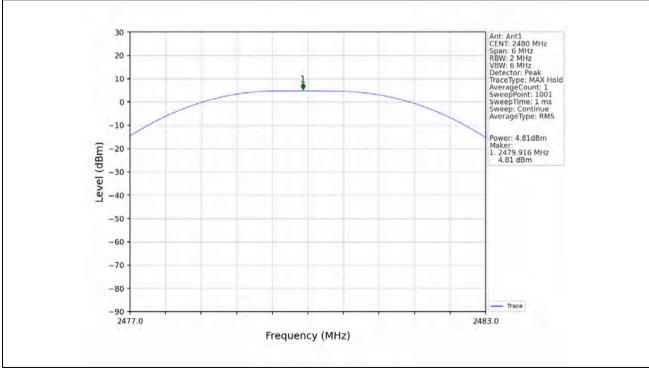


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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PS	Vardiat	
			ANT1	Limit	Verdict
	SISO	2402	-10.22	<=8	Pass
1M		2440	-8.74	<=8	Pass
		2480	-10.09	<=8	Pass
	SISO	2402	-12.94	<=8	Pass
2M		2440	-11.45	<=8	Pass
		2480	-12.71	<=8	Pass



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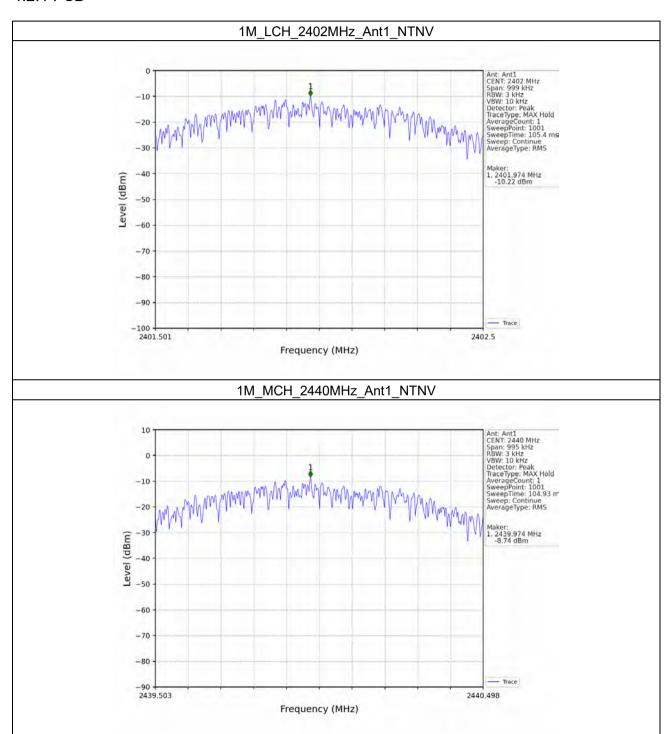
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4.2 Test Graph

4.2.1 PSD





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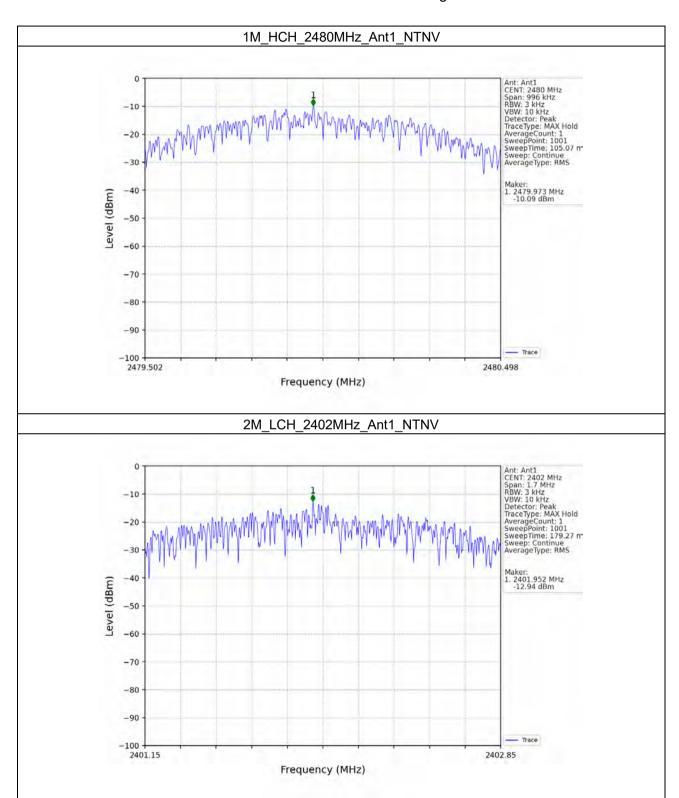
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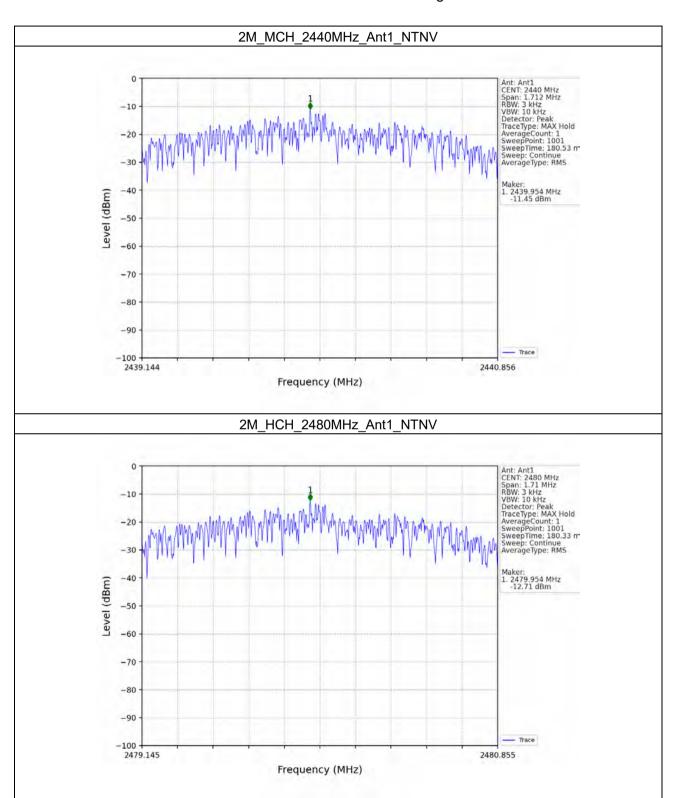
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M		2402	1	4.23
	SISO	2440	1	5.69
		2480	1	4.43
2M	SISO	2402	1	4.23
		2440	1	5.69
		2480	1	4.45

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
	SISO	2402	1	5.69	-14.31	Pass
1M		2440	1	5.69	-14.31	Pass
		2480	1	5.69	-14.31	Pass
	SISO	2402	1	5.69	-14.31	Pass
2M		2440	1	5.69	-14.31	Pass
		2480	1	5.69	-14.31	Pass



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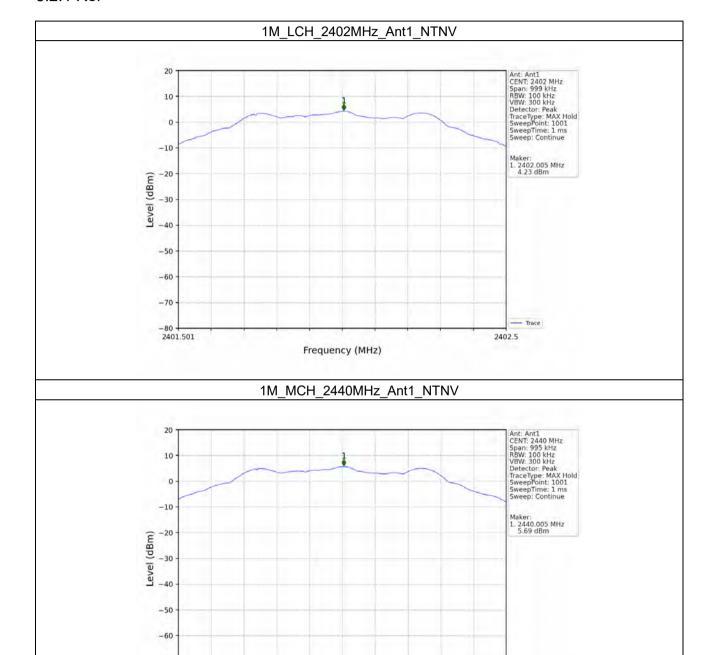
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5.2 Test Graph

5.2.1 Ref





-70 -80 2439.503

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Frequency (MHz)

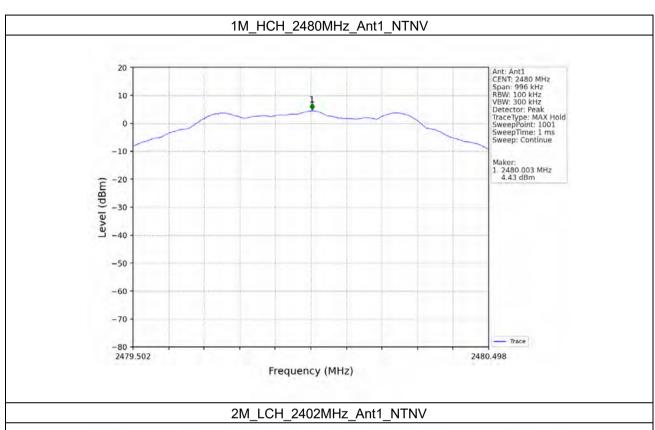
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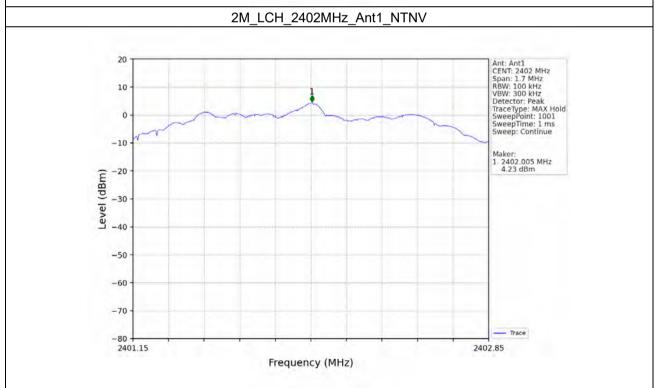


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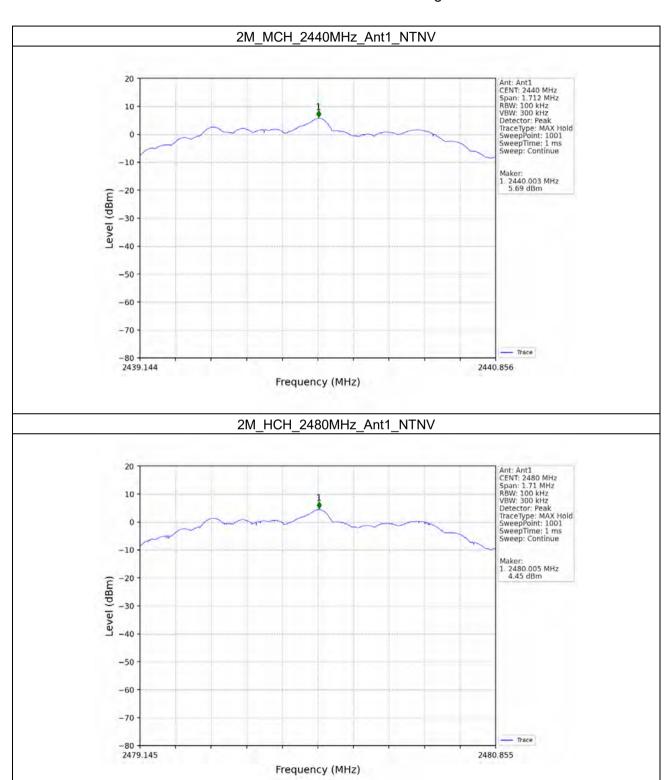
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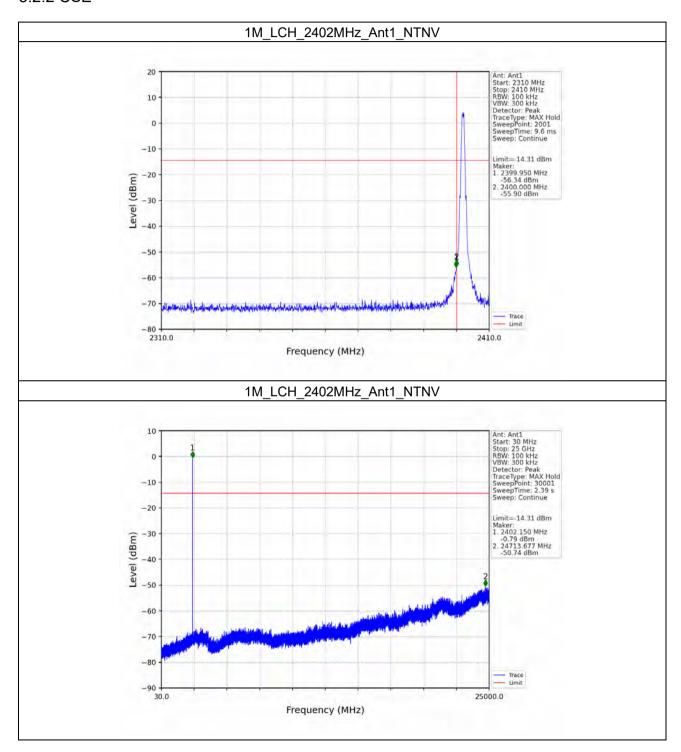


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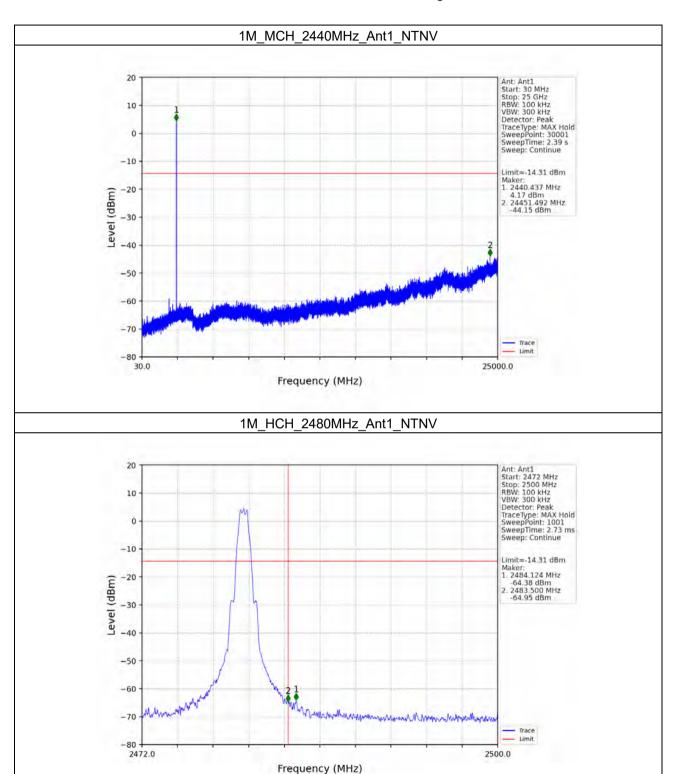
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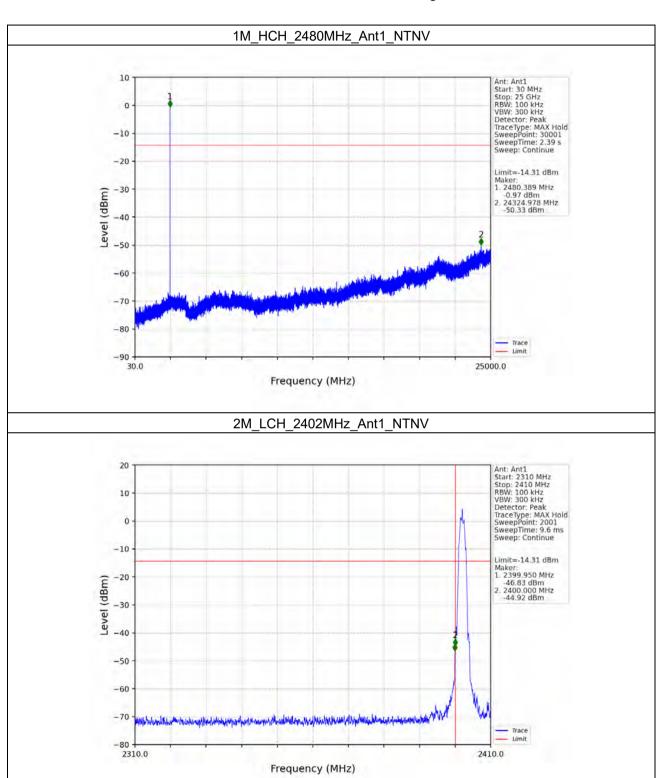
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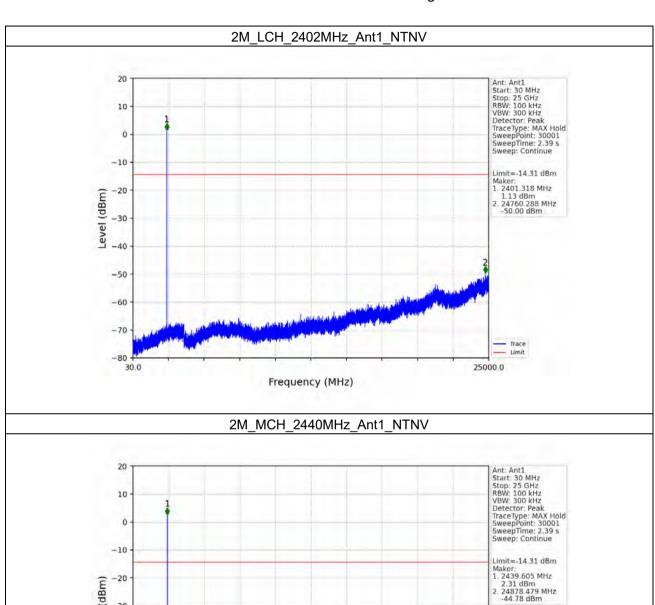
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-20

-40

-50

-60

-70

-80 30.0

Level (dBm) -30

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Frequency (MHz)

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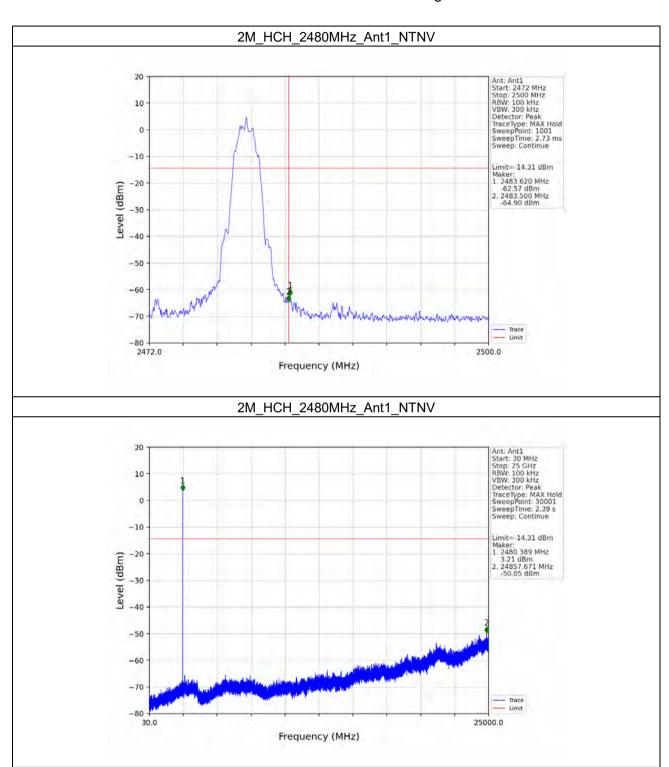
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