

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400128602

> Page: 1 of 60

TEST REPORT

Application No.: SZCR2404001286AT

Applicant: Shenzhen Pengbo Microelectronics Co., Ltd

Address of Applicant: Room601B, 6F, Block B, Building3, Phase1, Cloud park, Bantian Street,

Longgang District Shenzhen, GuangDong 518129 China

Shenzhen Pengbo Microelectronics Co., Ltd Manufacturer:

Address of Manufacturer: Room601B, 6F, Block B, Building3, Phase1, Cloud park, Bantian Street,

Longgang District Shenzhen, GuangDong 518129 China

Shenzhen Pengbo Microelectronics Co., Ltd **Factory:**

Address of Factory: Room601B, 6F, Block B, Building3, Phase1, Cloud park, Bantian Street,

Longgang District Shenzhen, GuangDong 518129 China

Equipment Under Test (EUT):

EUT Name: smart ring

Model No.: POBOVi Ring Gen-1

Trade Mark: **POBOVi** FCC ID: 2BF7DPG1

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

2024-04-11 **Date of Receipt:**

2024-04-18 to 2024-04-30 **Date of Test:**

Date of Issue: 2024-05-09

Test Result: Pass*

Keny Xu **EMC Laboratory Manager**

Ceny. Ku



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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 2 of 60

	Revision Record						
Version	Version Chapter Date Modifier Remai						
01		2024-05-09		Original			

Authorized for issue by:		
	Cooli	
	Leo Li/Project Engineer	_
	Exic Fu	
	Eric Fu/Reviewer	_



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> Page: 3 of 60

2 **Test Summary**

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



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 4 of 60

Contents

		Pag	e	
1	Cover Pag	je	. 1	
2	Test Sumr	mary	. 3	
3	Contents		1	
J	Contents.		_	
4	General In	nformation	## A	
	4.1 Detai	ils of E.U.T	6	
	4.2 Desci	ription of Support Units	7	
	4.3 Meas	surement Uncertainty	. 7	
	4.4 Test l	Location	8	
	4.5 Test I	Facility	. 8	
		ation from Standards		
	4.7 Abno	rmalities from Standard Conditions	8	
5	Equipmen	nt List	. 9	
6	Radio Spe	ectrum Technical Requirement1	12	
	6.1 Anter	nna Requirement1	12	
	6.1.1 Te	est Requirement:1	12	
	6.1.2 Co	onclusion1	12	
7	Radio Spe	ectrum Matter Test Results	13	
		·		
		, y		
		easurement Procedure and Data1		
		er Spectrum Density1		
		U.T. Operation1		
	7.3.2 Te	est Mode Description1	15	
	7.3.3 Te	est Setup Diagram1	15	
	7.3.4 Me	easurement Procedure and Data1	15	
	7.4 Cond	lucted Band Edges Measurement1	16	
	7.4.1 E.U	U.T. Operation1	16	
	7.4.2 Te	est Mode Description1	16	
		est Setup Diagram1		
	7.4.4 Me	easurement Procedure and Data1	16	
	7.5 Cond	lucted Spurious Emissions1	17	
		U.T. Operation1		
	7.5.2 Te	st Mode Description1	17	



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SZEMC-TRF-01 Rev. A/1

Page: 5 of 60

	7.5.3	Test Setup Diagram	
	7.5.4	Measurement Procedure and Data	18
7.	6 F	Radiated Emissions which fall in the restricted bands	19
	7.6.1	E.U.T. Operation	
	7.6.2	Test Mode Description	
	7.6.3	Test Setup Diagram	
	7.6.4	Measurement Procedure and Data	
7.	7 F	Radiated Spurious Emissions Below 1GHz	26
	7.7.1	E.U.T. Operation	
	7.7.2	Test Mode Description	
	7.7.3	Test Setup Diagram	
	7.7.4	Measurement Procedure and Data	
7.	8 F	Radiated Spurious Emissions Above 1GHz	
	7.8.1	E.U.T. Operation	
	7.8.2	Test Mode Description	30
	7.8.3	Test Setup Diagram	
	7.8.4	Measurement Procedure and Data	
8	Test S	Setup Photo	38
9	EUT C	Constructional Details (EUT Photos)	38
10	Apper	ndix	39



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400128602

> Page: 6 of 60

General Information

Details of E.U.T. 4.1

	Power supply:	For Ring:
		Lithium Ion Battery: DC 4.2V 20mAh rechargeable battery which charged by charging case
		For Charging case:
		Li-Ion Polymer Battery 3.7V 500mAh(DC 5V Charged by Type-C port)
	Cable(s):	USB cable: 50cm unshielded
	Operation Frequency:	2402MHz to 2480MHz
	Bluetooth Version:	V5.0 LE
	Modulation Type:	GFSK
	Number of Channels:	40
	Channel Spacing:	2MHz
	Antenna Type:	Chip Antenna
	Antenna Gain:	1.66dBi

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.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 7 of 60

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
RF cable	SGS	N/A(cable loss:-2dB)	REF. No.SEL001A0

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
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	± 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)

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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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400128602

> Page: 8 of 60

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, Nanshan District, 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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Report No.: SZCR240400128602

Page: 9 of 60

5 **Equipment List**

Minimum 6dB Bandwidth						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26	

Power Spectrum Density						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26	

Conducted Band Edges Measurement							
Equipment	Cal Date	Cal Due Date					
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13		
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26		



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Report No.: SZCR240400128602

Page: 10 of 60

Conducted Spurious Emissions						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26	

Radiated Emissions which fall in the restricted bands							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31		
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14		
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22		
Microwave system amplifier			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		
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09		
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14		

Radiated Spurious Emissions Below 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18	
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2023-10-19	2024-10-18	
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15	
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 11 of 60

Radiated Spurious Emissions Above 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	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	
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14	

General used equipment						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27	
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27	
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17	



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400128602

> Page: 12 of 60

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 lack 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.

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.66 dBi.

Antenna location: Refer to internal photo.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 13 of 60

Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

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

Limit:

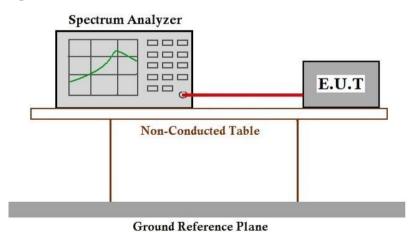
Frequency range(MHz)	Output power of the intentional radiator(watt)		
	1 for ≥50 hopping channels		
902-928	0.25 for 25≤ hopping channels <50		
	1 for digital modulation		
	1 for ≥75 non-overlapping hopping channels		
2400-2483.5	0.125 for all other frequency hopping systems		
	1 for digital modulation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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C Humidity: 41.7 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Setup Diagram



7.1.3 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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 14 of 60

7.2 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

7.2.1 E.U.T. Operation

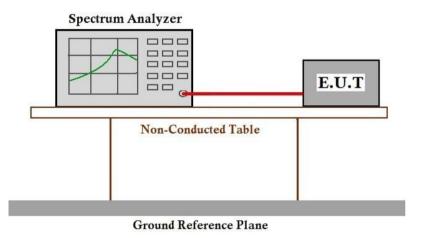
Operating Environment:

Temperature: 23.3 °C Humidity: 41.7 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 15 of 60

7.3 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

7.3.1 E.U.T. Operation

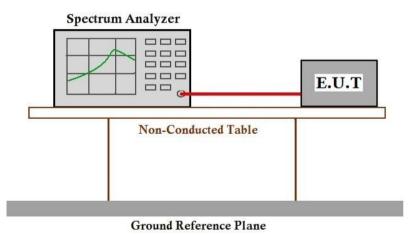
Operating Environment:

Temperature: 23.3 °C Humidity: 41.7 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 16 of 60

7.4 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).

7.4.1 E.U.T. Operation

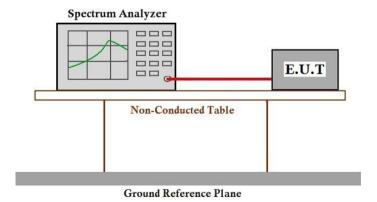
Operating Environment:

Temperature: 23.3 °C Humidity: 41.7 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

	nz root mede zoochphon						
Pre-scan / Final test	Mode Code	Description					
Final test	00	TX mode(1Mbps)_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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> Page: 17 of 60

7.5 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).

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 23.3 °C Humidity: 41.7 % RH

7.5.2 Test Mode Description

	0.2 1 000 m 0 0 0 0 0 1 p 1 0 1						
Pre-scan / Final test	Mode Code	Description					
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.					



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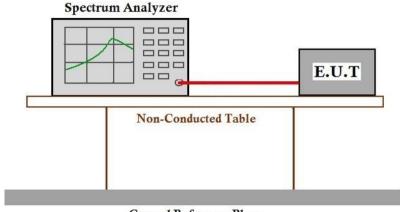


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 18 of 60

7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

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> Page: 19 of 60

7.6 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.



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Report No.: SZCR240400128602

Page: 20 of 60

7.6.1 E.U.T. Operation

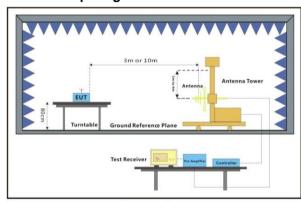
Operating Environment:

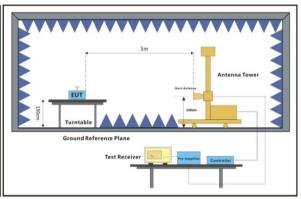
Temperature: 21.7 °C Atmospheric Pressure: 1020 mbar Humidity: 52.4 % RH

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.6.3 Test Setup Diagram





Above 1GHz 30MHz-1GHz



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> Page: 21 of 60

7.6.4 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.
- i. 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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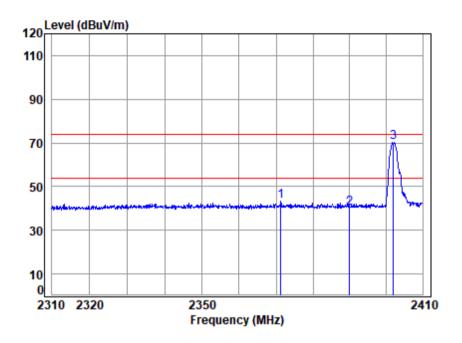


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 22 of 60

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01286AT

Mode : 2402 Band edge

Note : BLE

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB	
1	2371.299	5.06	29.10	37.48	46.49	43.17	74.00	-30.83	peak
2	2390.000	5.08	29.10	37.44	43.50	40.24	74.00	-33.76	peak
3 p	2402.000	5.09	29.09	37.41	73.35	70.12	74.00	-3.88	peak



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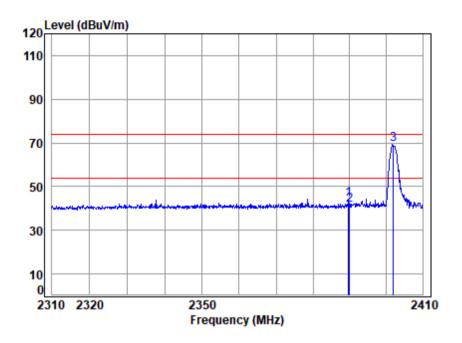


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 23 of 60

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



Site : chamber

Condition: 3m VERTICAL

Job No : 01286AT

: 2402 Band edge Mode

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.659	5.08	29.10	37.44	47.67	44.41	74.00	-29.59	peak
2	2390.000	5.08	29.10	37.44	44.76	41.50	74.00	-32.50	peak
3 p	2402.000	5.09	29.09	37.41	72.68	69.45	74.00	-4.55	peak



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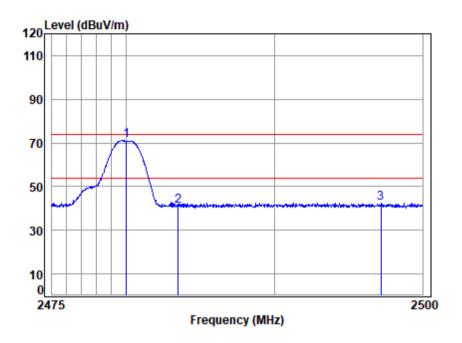


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 24 of 60

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01286AT

Mode : 2480 Band edge

Note : BLE

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	р	2480.000	5.16	28.90	37.22	74.16	71.00	74.00	-3.00	peak
2		2483.500	5.16	28.90	37.22	44.36	41.20	74.00	-32.80	peak
3		2497.188	5.17	28.90	37.19	45.73	42.61	74.00	-31.39	peak



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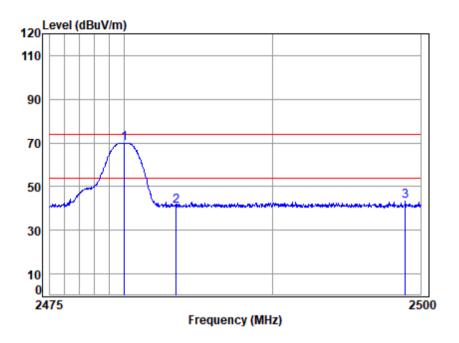


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 25 of 60

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



Site : chamber

Condition: 3m VERTICAL

Job No : 01286AT

Mode : 2480 Band edge

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2480.000	5.16	28.90	37.22	73.08	69.92	74.00	-4.08	peak
2	2483.500	5.16	28.90	37.22	44.07	40.91	74.00	-33.09	peak
3	2498.970	5.17	28.90	37.18	46.29	43.18	74.00	-30.82	peak



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 26 of 60

7.7 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		

7.7.1 E.U.T. Operation

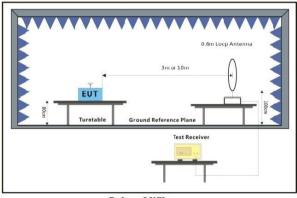
Operating Environment:

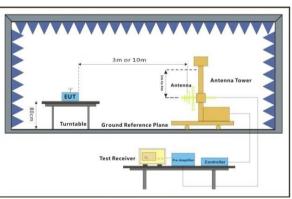
23.2 °C Temperature: Humidity: 45.8 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan Final test		Description										
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.										

7.7.3 Test Setup Diagram





Below 30MHz 30MHz-1GHz



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400128602

> Page: 27 of 60

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. 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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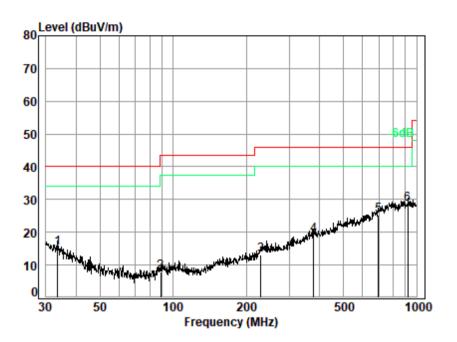


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 28 of 60

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



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 01286AT

Test Mode: 00

		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	33 56	19.63	0 68	27 79	22 82	15 3/	10 00	-24 66	ΩP
2		11.61							_
3		16.35							•
4	377.26	20.80	2.46	27.24	23.00	19.02	46.00	-26.98	QP
5	696.86	25.88	3.50	27.93	23.82	25.27	46.00	-20.73	QP
6 a	922.52	28.19	4.15	27.02	23.25	28.57	46.00	-17.43	OP



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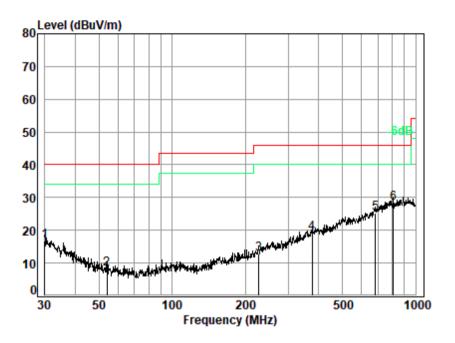


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 29 of 60

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



Site : chamber

Condition: 3m VERTICAL Job No. : 01286AT

Test Mode: 00

		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	30.00	21.20	0.64	27.80	22.58	16.62	40.00	-23.38	QP
2	54.07	12.12	0.87	27.74	22.96	8.21	40.00	-31.79	QP
3	226.89	16.00	1.85	27.15	22.19	12.89	46.00	-33.11	QP
4	375.94	20.74	2.46	27.23	23.30	19.27	46.00	-26.73	QP
5	684.75	25.75	3.46	27.97	23.92	25.16	46.00	-20.84	QP
6 g	810.27	26.73	3.86	27.56	25.19	28.22	46.00	-17.78	OP



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Report No.: SZCR240400128602

Page: 30 of 60

7.8 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

7.8.1 E.U.T. Operation

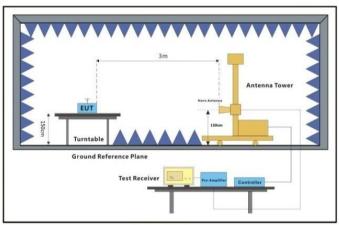
Operating Environment:

Temperature: 21.7 °C Humidity: 52.4 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.8.3 Test Setup Diagram



Above 1GHz



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400128602

> Page: 31 of 60

7.8.4 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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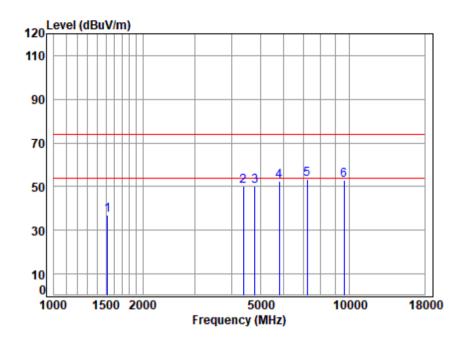


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 32 of 60

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01286AT

Mode : 2402 TX RSE

: BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1516.210	4.08	26.86	38.39	44.22	36.77	74.00	-37.23	peak
2	4392.376	7.05	34.74	35.80	44.17	50.16	74.00	-23.84	peak
3	4804.000	7.31	34.32	35.52	44.17	50.28	74.00	-23.72	peak
4	5797.032	8.03	34.29	34.99	45.13	52.46	74.00	-21.54	peak
5 p	7206.000	9.18	35.70	35.79	44.16	53.25	74.00	-20.75	peak
6	9608.000	12.36	37.42	37.46	40.67	52.99	74.00	-21.01	peak



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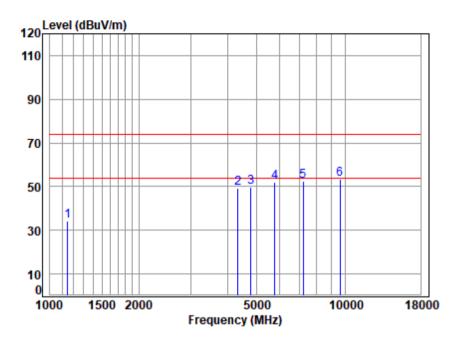


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 33 of 60

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



Site : chamber

Condition: 3m VERTICAL

Job No : 01286AT

Mode : 2402 TX RSE

: BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1148.823	3.49	23.90	38.33	45.22	34.28	74.00	-39.72	peak
2	4341.886	7.02	34.34	35.84	43.96	49.48	74.00	-24.52	peak
3	4804.000	7.31	34.32	35.52	43.73	49.84	74.00	-24.16	peak
4	5780.300	8.02	34.26	35.00	44.73	52.01	74.00	-21.99	peak
5	7206.000	9.18	35.70	35.79	43.50	52.59	74.00	-21.41	peak
6 p	9608.000	12.36	37.42	37.46	40.99	53.31	74.00	-20.69	peak



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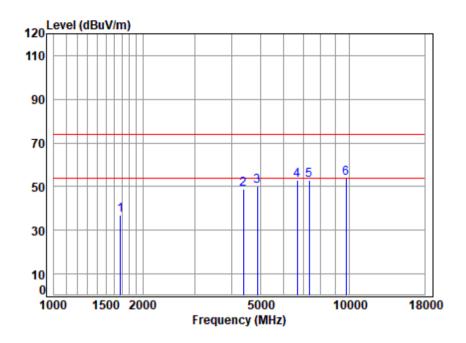


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 34 of 60

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01286AT

Mode : 2440 TX RSE

: BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.477	4.31	26.24	38.41	44.65	36.79	74.00	-37.21	peak
2	4392.376	7.05	34.74	35.80	42.96	48.95	74.00	-25.05	peak
3	4880.000	7.36	34.62	35.47	43.59	50.10	74.00	-23.90	peak
4	6659.763	8.68	35.20	35.35	44.45	52.98	74.00	-21.02	peak
5	7320.000	9.32	35.70	35.90	44.02	53.14	74.00	-20.86	peak
6	p 9760.000	12.47	37.38	37.43	41.45	53.87	74.00	-20.13	peak



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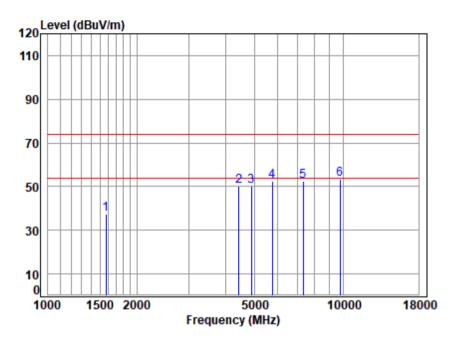


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 35 of 60

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



Site : chamber

Condition: 3m VERTICAL

Job No : 01286AT

Mode : 2440 TX RSE

: BLE

		Freq			Preamp Factor		Level			Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1574.265	4.17	26.90	38.40	44.77	37.44	74.00	-36.56	peak
2		4430.628	7.08	34.43	35.77	44.40	50.14	74.00	-23.86	peak
3		4880.000	7.36	34.62	35.47	43.47	49.98	74.00	-24.02	peak
4		5746.982	8.00	34.21	35.02	45.13	52.32	74.00	-21.68	peak
5		7320.000	9.32	35.70	35.90	43.31	52.43	74.00	-21.57	peak
6	р	9760.000	12.47	37.38	37.43	40.91	53.33	74.00	-20.67	peak



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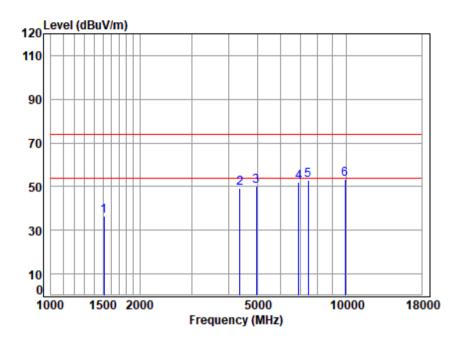


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 36 of 60

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01286AT

Mode : 2480 TX RSE

: BLE

		Freq			Preamp Factor					Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1511.833	4.08	26.85	38.39	43.77	36.31	74.00	-37.69	peak
2		4367.058	7.04	34.54	35.82	43.49	49.25	74.00	-24.75	peak
3		4960.000	7.41	34.56	35.42	43.73	50.28	74.00	-23.72	peak
4		6894.806	8.85	35.59	35.50	43.26	52.20	74.00	-21.80	peak
5		7440.000	9.46	35.96	36.02	43.63	53.03	74.00	-20.97	peak
6	р	9920.000	12.58	37.30	37.39	40.93	53.42	74.00	-20.58	peak



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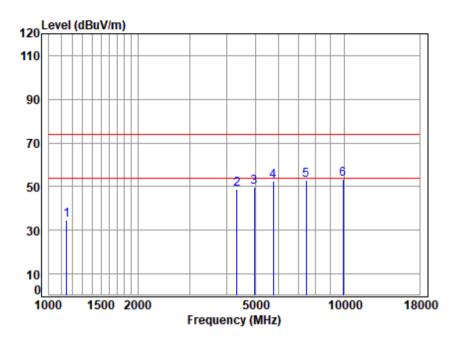


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 37 of 60

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



Site : chamber

Condition: 3m VERTICAL

Job No : 01286AT

Mode : 2480 TX RSE

: BLE

		Freq			Preamp Factor		Level			Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1148.823	3.49	23.90	38.33	45.64	34.70	74.00	-39.30	peak
2		4341.886	7.02	34.34	35.84	43.08	48.60	74.00	-25.40	peak
3		4960.000	7.41	34.56	35.42	43.30	49.85	74.00	-24.15	peak
4		5746.982	8.00	34.21	35.02	45.40	52.59	74.00	-21.41	peak
5		7440.000	9.46	35.96	36.02	43.49	52.89	74.00	-21.11	peak
6	р	9920.000	12.58	37.30	37.39	40.83	53.32	74.00	-20.68	peak



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400128602

> Page: 38 of 60

Test Setup Photo

Refer to Setup Photo for SZCR2404001286AT

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2404001286AT



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400128602

> Page: 39 of 60

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	100.000	100.000	100.00	0.00	0.00			
1M	SISO	2440	100.000	100.000	100.00	0.00	0.00			
		2480	100.000	100.000	100.00	0.00	0.00			



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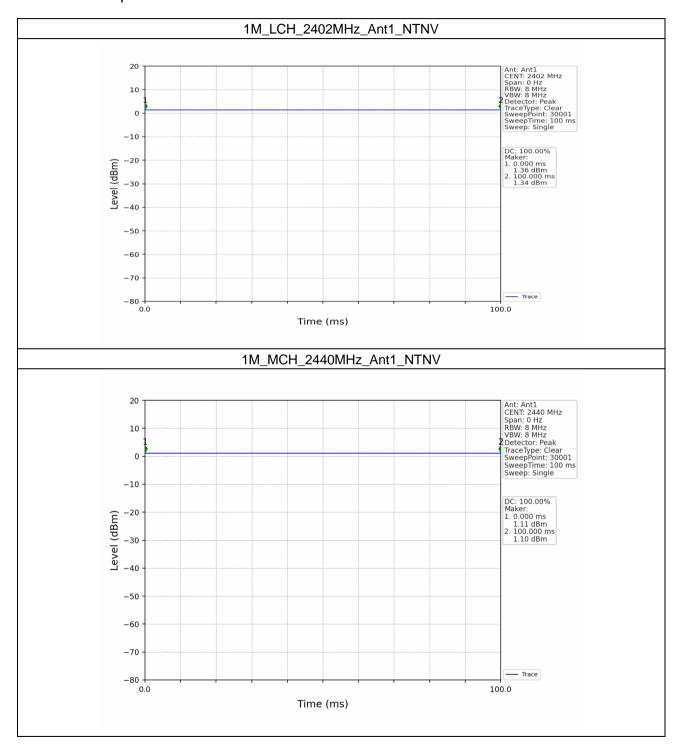


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Report No.: SZCR240400128602

Page: 40 of 60

1.1.2 Test Graph





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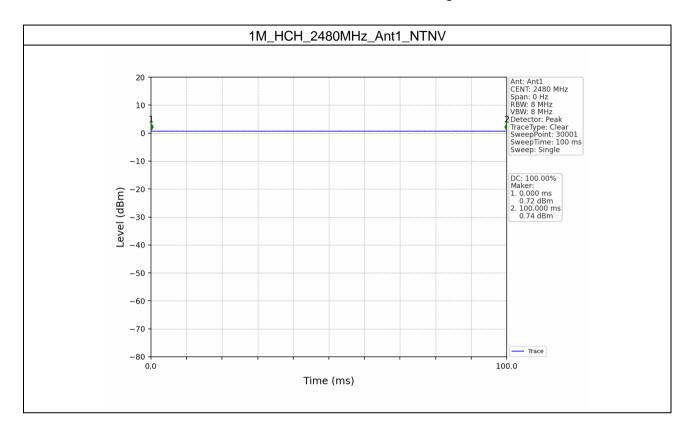
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Page: 41 of 60





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> Page: 42 of 60

2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency	ANT	99% Occupied E	\/ordiot	
Mode		(MHz)	ANI	Result	Limit	Verdict
1M		2402	1	1.044	/	Pass
	SISO	SISO	2440	1	1.052	/
		2480	1	1.072	/	Pass



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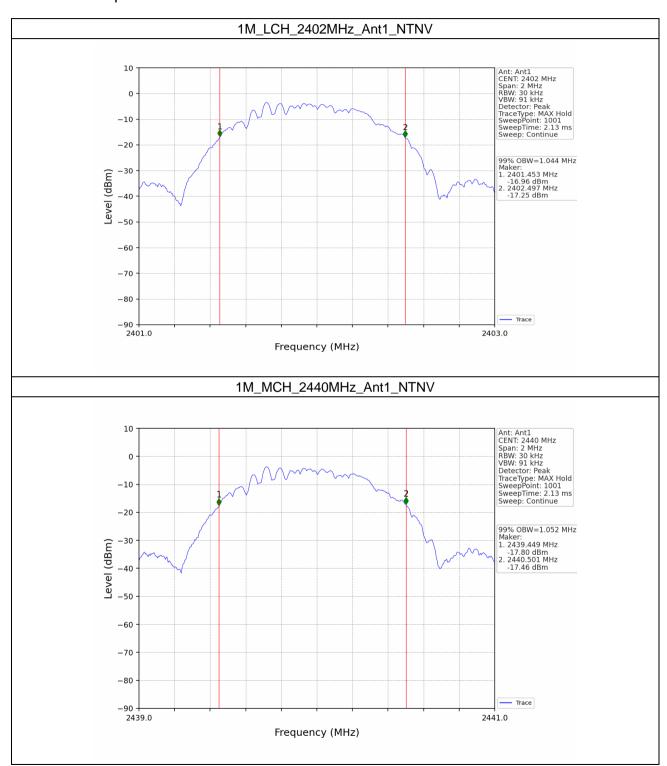


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Page: 43 of 60

2.1.2 Test Graph





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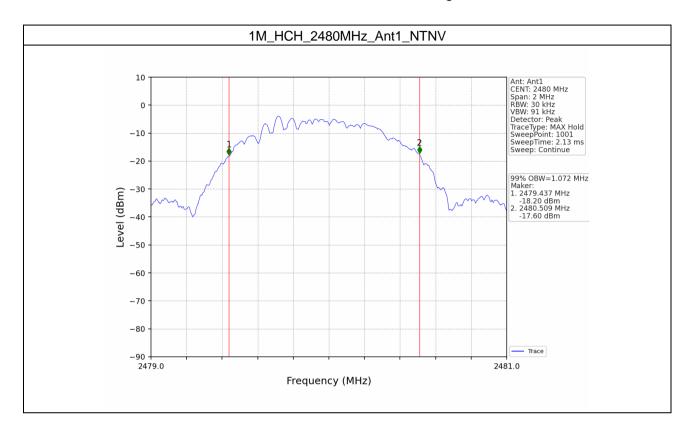
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Report No.: SZCR240400128602

Page: 44 of 60





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400128602

> Page: 45 of 60

2.2 6dB BW

2.2.1 Test Result

Mode	TX	Frequency	ANIT	6dB Bandv	vidth (MHz)	Verdict
Mode	Type	(MHz)	ANT	Result	Limit	
	SISO	2402	1	0.717	>=0.5	Pass
1M		2440	1	0.726	>=0.5	Pass
		2480	1	0.743	>=0.5	Pass



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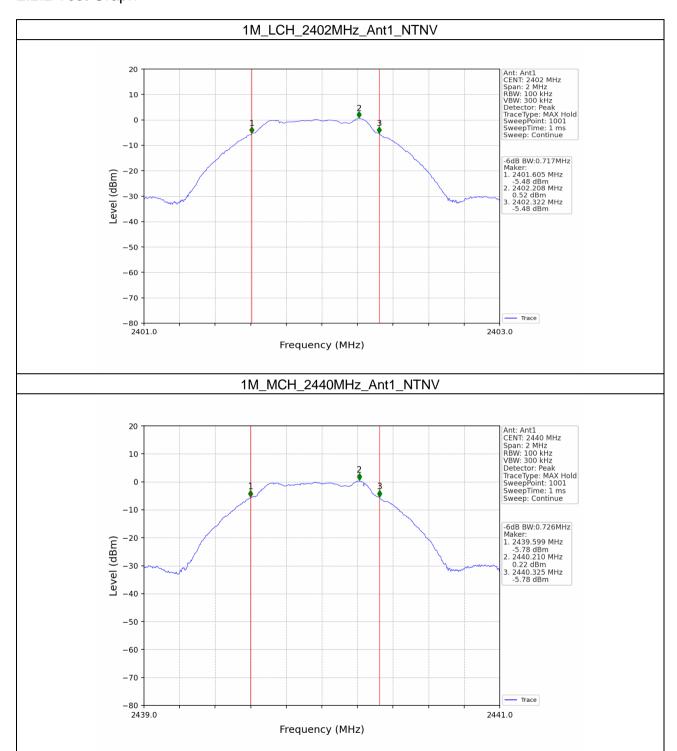


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Report No.: SZCR240400128602

Page: 46 of 60

2.2.2 Test Graph





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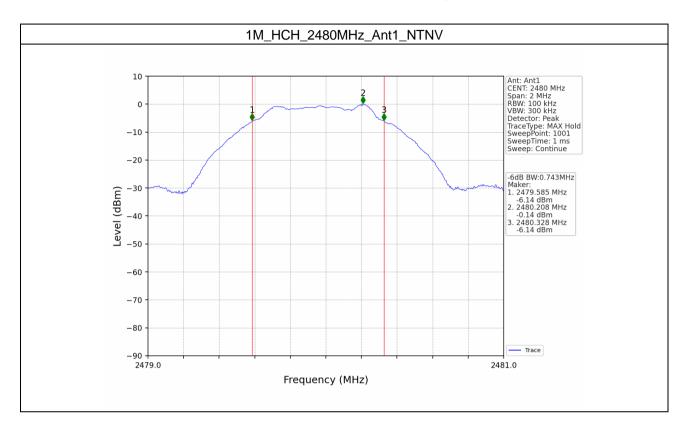
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Report No.: SZCR240400128602

Page: 47 of 60





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400128602

> Page: 48 of 60

3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mada	TX	Frequency	Maximum Peak Conduc	\/ordiot	
Mode	Type	(MHz)	ANT1	Limit	Verdict
	SISO	2402	1.34	<=30	Pass
1M		2440	1.06	<=30	Pass
		2480	0.68	<=30	Pass



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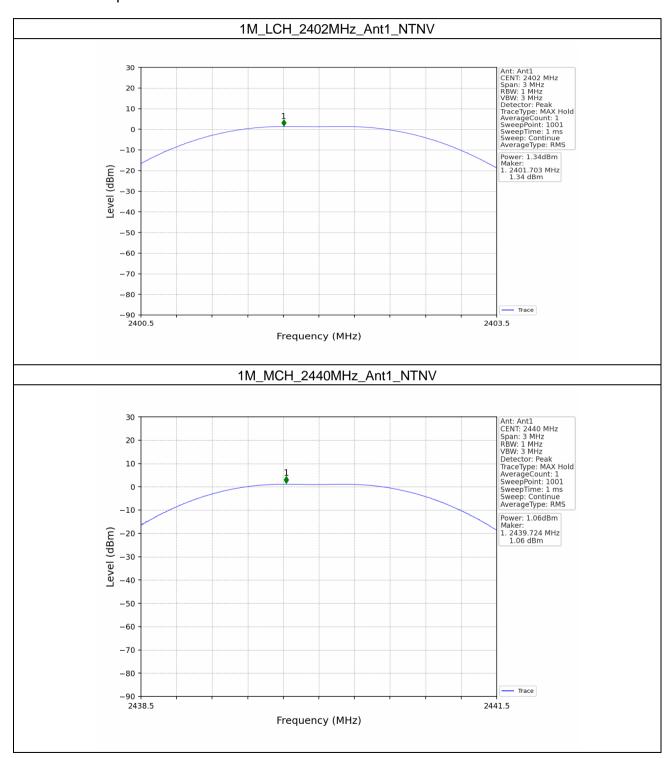


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 49 of 60

3.1.2 Test Graph





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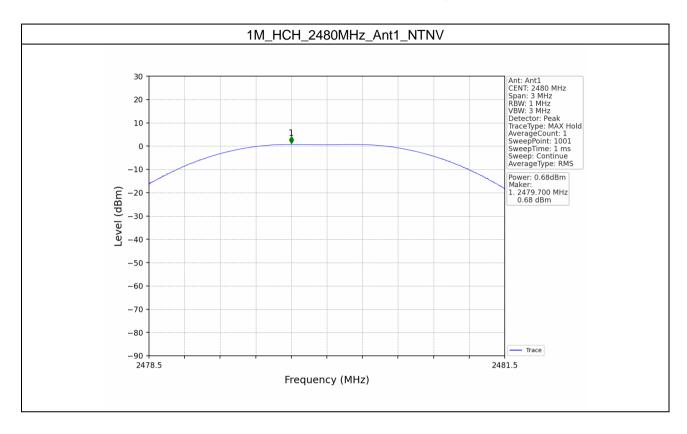
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 50 of 60





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400128602

> Page: 51 of 60

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX	Frequency	Maximum PS	\/andiat	
Mode	Type	(MHz)	ANT1	Limit	Verdict
	SISO	2402	-15.28	<=8	Pass
1M		2440	-15.45	<=8	Pass
		2480	-16.06	<=8	Pass



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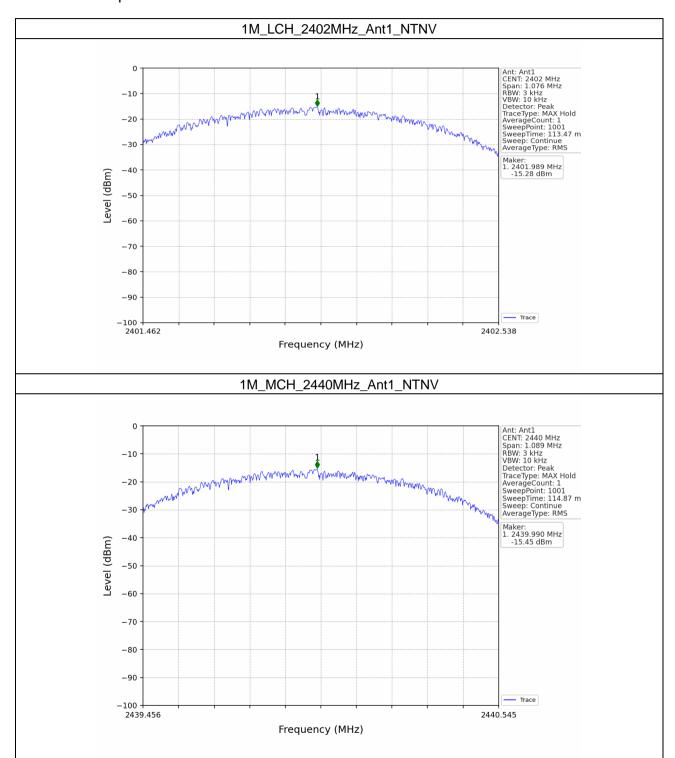


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 52 of 60

4.1.2 Test Graph





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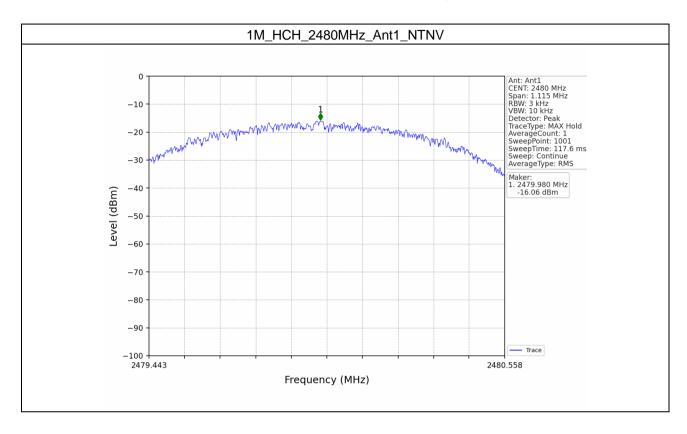
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 53 of 60





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400128602

> Page: 54 of 60

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	0.50
1M	SISO	2440	1	0.21
	0.00	2480	1	-0.15



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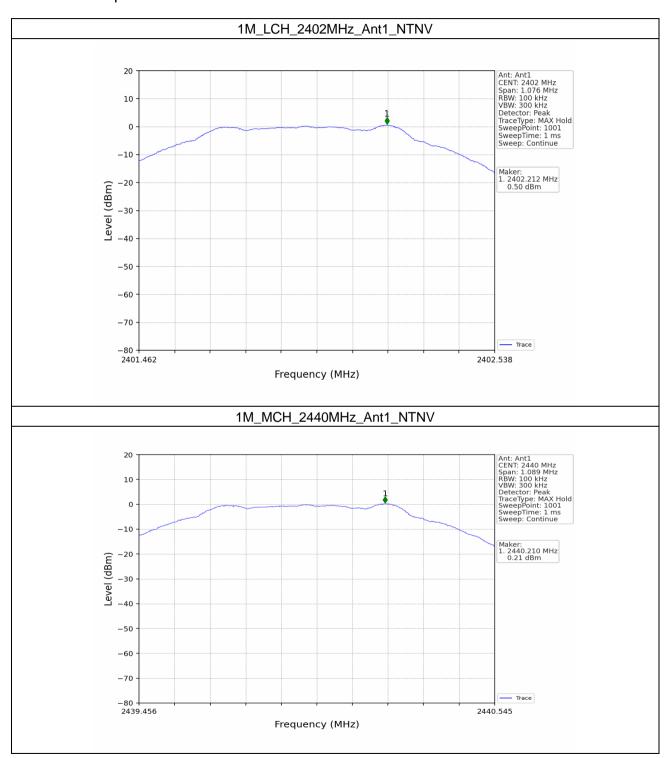


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400128602

Page: 55 of 60

5.1.2 Test Graph





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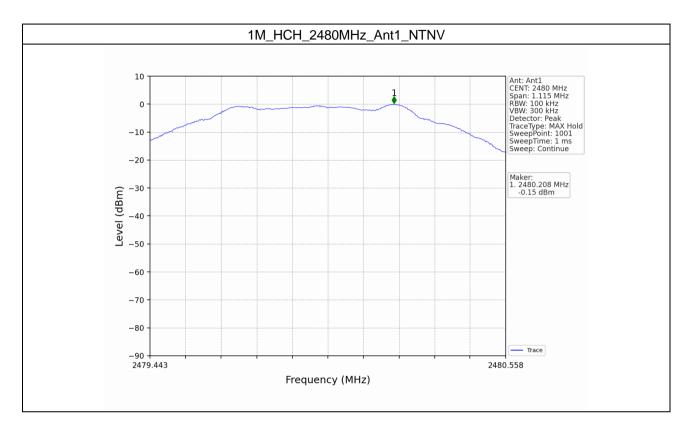
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Report No.: SZCR240400128602

Page: 56 of 60





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400128602

> Page: 57 of 60

5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	1	0.50	-19.50	Pass
1M	SISO	2440	1	0.50	-19.50	Pass
		2480	1	0.50	-19.50	Pass



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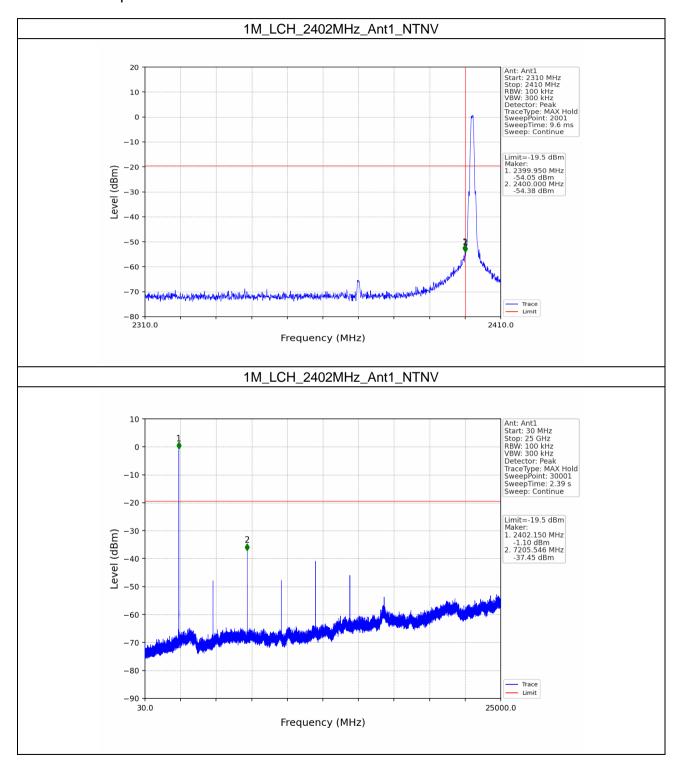


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Report No.: SZCR240400128602

Page: 58 of 60

5.2.2 Test Graph





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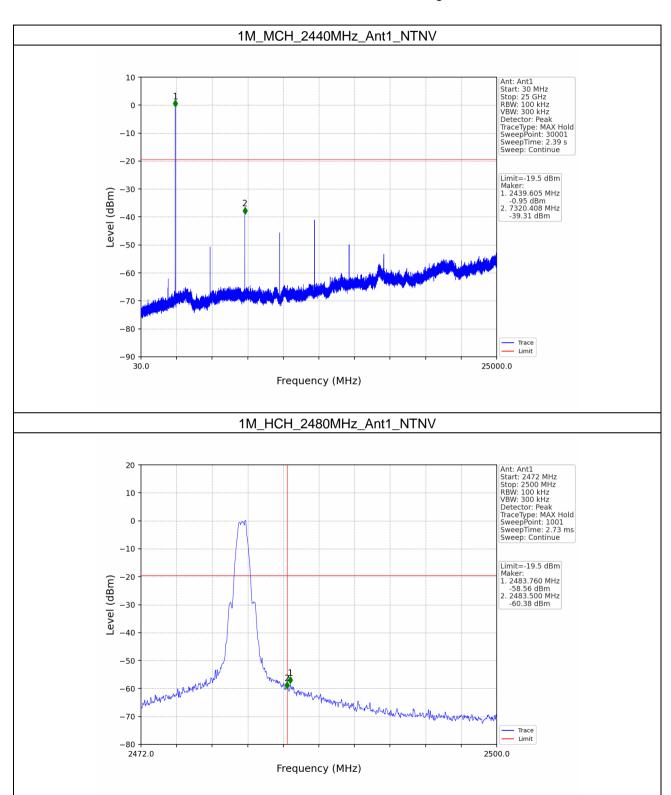
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Page: 59 of 60





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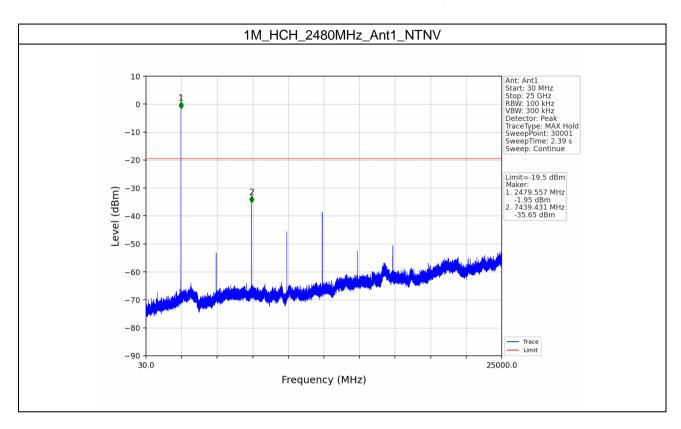
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Page: 60 of 60



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