

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

Report No.: SZCR230800275302

Page: 1 of 78

# TEST REPORT

**Application No.:** SZCR2308002753AT

Applicant: Shenzhen Breo Technology Co., Ltd.

**Address of Applicant:** 19/F, Hisense Southern Building No.1777, Chuangye road, NanShan

District, Shenzhen City, Guangdong Province 518054 China

Shenzhen Breo Technology Co., Ltd. Manufacturer:

Address of Manufacturer: 19/F, Hisense Southern Building No.1777, Chuangye road, NanShan

District, Shenzhen City, Guangdong Province 518054 China

Factory: Shiyan Branch of Shenzhen Breo Technology Co., Ltd

Address of Factory: Room 1001, Building 2, Phase II. Fenda Science and Technology Park,

Baoyuan Community, Shiyan Street. Baoan District, Shenzhen City, 518108

Guangdong, P.R. China

**Equipment Under Test (EUT):** 

**EUT Name:** Bluetooth Module Model No.: **BREO-BT-A1** 

**Trade Mark:** breo

FCC ID: PXU-BT-A1

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

2023-08-24 **Date of Receipt:** 

2023-08-28 to 2023-09-16 **Date of Test:** 

Date of Issue: 2023-09-19

Pass\* **Test Result:** 

Keny Xu **EMC Laboratory Manager** 

Ceny. Ku



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



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

Report No.: SZCR230800275302

Page: 2 of 78

	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2023-09-19		Original				

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



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

Report No.: SZCR230800275302

Page: 3 of 78

#### **Test Summary** 2

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass		

Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result		
Conducted 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		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	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass		



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

Report No.: SZCR230800275302

Page: 4 of 78

#### 3 **Contents**

			Page
1	Cove	er Page	1
2	Test	Summary	3
_	1000	- Cultimary	
3	Cont	tents	4
4	Gene	eral Information	6
	4.1	Details of E.U.T.	6
		Description of Support Units	
		Measurement Uncertainty	
	4.4	Test Location	7
	4.5	Test Facility	7
		Deviation from Standards	
	4.7	Abnormalities from Standard Conditions	7
5	Equi	pment List	8
_			
6	Radi	io Spectrum Technical Requirement	11
	6.1	Antenna Requirement	11
	6.1.1	·	
	6.1.2	2 Conclusion	11
7	Radi	io Spectrum Matter Test Results	12
		Conducted Peak Output Power	
	7.1.1	•	
	7.1.2		
	7.1.3	1 0	
	7.2	Minimum 6dB Bandwidth	
	7.2.1		
	7.2.2	·	
	7.2.3		
	7.2.4	Measurement Procedure and Data	13
	7.3	Power Spectrum Density	
	7.3.1	1	
	7.3.2		
	7.3.3	1 0	
	7.3.4		
		Conducted Band Edges Measurement	
	7.4.1	·	
	7.4.2	· · · · · · · · · · · · · · · · · · ·	
	7.4.3	'	
	7.4.4 7.5	Conducted Spurious Emissions	
	7.5 7.5.1	·	
	7.5.1	·	
	7.0.2	1 Oct Mode Decomption	



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

Report No.: SZCR230800275302

Page: 5 of 78

	7.5.3 Test Setup Diagram	18
	7.5.4 Measurement Procedure and Data	
7	7.6 Radiated Emissions which fall in the restricted bands	19
	7.6.1 E.U.T. Operation	19
	7.6.2 Test Mode Description	19
	7.6.3 Test Setup Diagram	20
	7.6.4 Measurement Procedure and Data	
7	7.7 Radiated Spurious Emissions Below 1GHz	30
	7.7.1 E.U.T. Operation	
	7.7.2 Test Mode Description	30
	7.7.3 Test Setup Diagram	30
	7.7.4 Measurement Procedure and Data	3 <sup>-</sup>
7	7.8 Radiated Spurious Emissions Above 1GHz	34
	7.8.1 E.U.T. Operation	34
	7.8.2 Test Mode Description	34
	7.8.3 Test Setup Diagram	
	7.8.4 Measurement Procedure and Data	35
8	Emission Test Results	48
8	8.1 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	4
	8.1.1 E.U.T. Operation	
	8.1.2 Test Mode Description	
	8.1.3 Test Setup Diagram	49
	8.1.4 Measurement Procedure and Data	
9	Test Setup Photo	52
-	·	
10	EUT Constructional Details (EUT Photos)	52
11	Appendix	<b>5</b> ′
	, /kkoa.v	



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

Report No.: SZCR230800275302

Page: 6 of 78

### **General Information**

#### Details of E.U.T. 4.1

Power supply:	DC 3.3V
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.3 Dual mode
Data Rate:	1M/bps & 2M/bps
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi

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 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
PC	Lenovo	ThinkCentre M920T	REF. No.SEA19A00

### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	± 2.9dB
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 U<sub>lab</sub> (lab Uncertainty) is less than U<sub>cispr/ETSI</sub> (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/0 Aug01,2022

Report No.: SZCR230800275302

Page: 7 of 78

#### 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

### **Abnormalities from Standard Conditions**

None



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

Report No.: SZCR230800275302

Page: 8 of 78

#### 5 **Equipment List**

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13	
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2023-03-20	2024-03-19	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2023-07-07	2024-07-06	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2022-09-20	2023-09-19	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19	

Conducted Peak Output Power						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2023-04-01	2024-03-31	
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2023-03-21	2024-03-20	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30	

Minimum 6dB Bandwidt	h				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30



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

Report No.: SZCR230800275302

Page: 9 of 78

Power Spectrum Density					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable SGS		N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30

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	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06



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

Report No.: SZCR230800275302

Page: 10 of 78

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	2023-03-20	2024-03-19

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2022-10-20	2023-10-19
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2021-09-17	2023-09-16
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19
Measurement Software	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

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	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06

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	2023-03-23	2024-03-22



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

Report No.: SZCR230800275302

Page: 11 of 78

#### Radio Spectrum Technical Requirement 6

### 6.1 Antenna Requirement

### 6.1.1 Test Requirement:

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

#### 6.1.2 Conclusion

#### Standard Requirement:

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

#### 15.247(b) (4) requirement:

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

#### **EUT Antenna:**

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0 dBi.

Antenna location: Refer to internal photo.



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Report No.: SZCR230800275302

Page: 12 of 78

#### **Radio Spectrum Matter Test Results** 7

### 7.1 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:

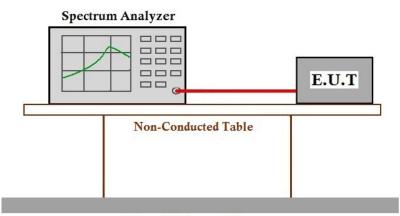
Frequency range(MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850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

### 7.1.1 E.U.T. Operation

Operating Environment:

Humidity: 51.2 % RH Temperature: 22.8 °C Atmospheric Pressure: 1000 mbar

### 7.1.2 Test Setup Diagram



Ground Reference Plane

### 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/0 Aug01,2022

Report No.: SZCR230800275302

Page: 13 of 78

### 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

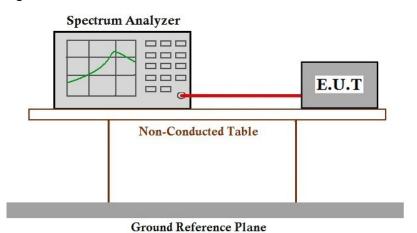
Operating Environment:

Temperature: 22.8 °C Atmospheric Pressure: 1000 mbar Humidity: 51.1 % RH

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_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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Report No.: SZCR230800275302

Page: 14 of 78

### 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

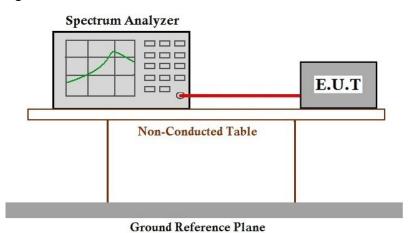
Operating Environment:

Temperature: 22.8 °C Humidity: 51.7 % RH Atmospheric Pressure: 1000 mbar

#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

### 7.3.3 Test Setup Diagram



#### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: SZCR230800275302

Page: 15 of 78

### 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: 22.8 °C Humidity: 51.6 % RH Atmospheric Pressure: 1000 mbar

#### 7.4.2 Test Mode Description

THE TOOL MODE BOOKING					
Pre-scan / Final test	Mode Code	Description			
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.			
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.			



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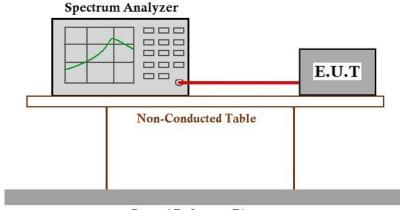


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Report No.: SZCR230800275302

Page: 16 of 78

### 7.4.3 Test Setup Diagram



**Ground Reference Plane** 

### 7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: SZCR230800275302

Page: 17 of 78

### 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: 22.8 °C Humidity: 51.2 % RH Atmospheric Pressure: 1000 mbar

#### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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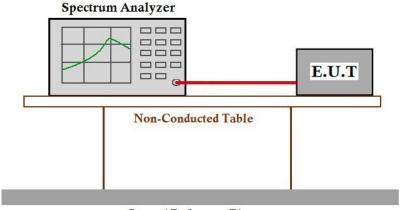


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Report No.: SZCR230800275302

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### 7.5.3 Test Setup Diagram



**Ground Reference Plane** 

### 7.5.4 Measurement Procedure and Data

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Report No.: SZCR230800275302

Page: 19 of 78

### 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.

### 7.6.1 E.U.T. Operation

Operating Environment:

22.7 °C Humidity: 53.4 % RH Temperature: Atmospheric Pressure: 1000 mbar

### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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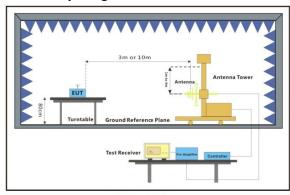


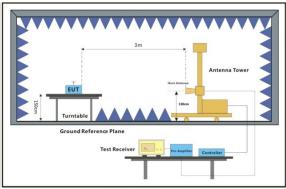
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Page: 20 of 78

### 7.6.3 Test Setup Diagram





Above 1GHz 30MHz-1GHz



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Report No.: SZCR230800275302

Page: 21 of 78

#### 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.
- 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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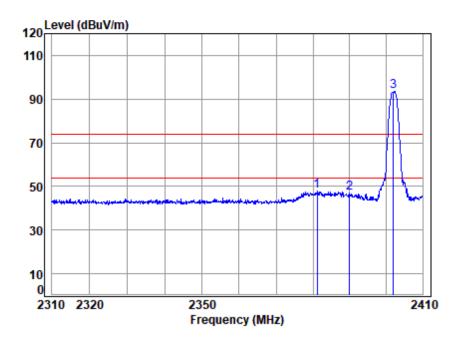


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 22 of 78

Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02753AT

Mode : 2402 Band edge

Note : BLE 1M

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2381.067	5.07	28.72	35.64	49.71	47.86	74.00	-26.14	peak
2	2390.000	5.08	28.76	35.64	48.63	46.83	74.00	-27.17	peak
3 q	2402.000	5.09	28.81	35.64	95.09	93.35	74.00	19.35	peak



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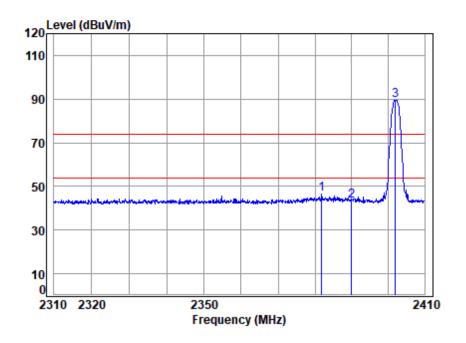


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 23 of 78

Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 02753AT Job No

: 2402 Band edge Mode

Note : BLE 1M

		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	2381.874	5.07	28.73	35.64	48.34	46.50	74.00	-27.50	peak
2	2390.000	5.08	28.76	35.64	45.26	43.46	74.00	-30.54	peak
3 q	2402.000	5.09	28.81	35.64	91.29	89.55	74.00	15.55	peak



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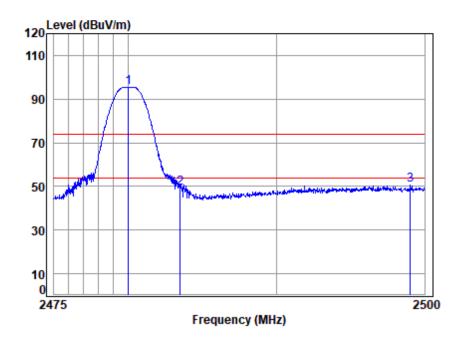


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 24 of 78

Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

: 02753AT Job No

Mode : 2480 Band edge

Note : BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 q	2480.000	5.16	29.28	35.61	96.70	95.53	74.00	21.53	peak	
2	2483.500	5.16	29.30	35.61	50.42	49.27	74.00	-24.73	peak	
3	2499.045	5.17	29.39	35.60	51.47	50.43	74.00	-23.57	peak	



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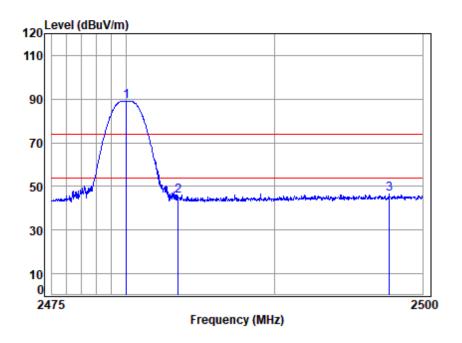


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 25 of 78

Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02753AT

Mode : 2480 Band edge

Note : BLE 1M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2480.000	5.16	29.28	35.61	90.28	89.11	74.00	15.11	peak
2	2483.500	5.16	29.30	35.61	46.94	45.79	74.00	-28.21	peak
3	2497.740	5.17	29.39	35.60	47.59	46.55	74.00	-27.45	peak



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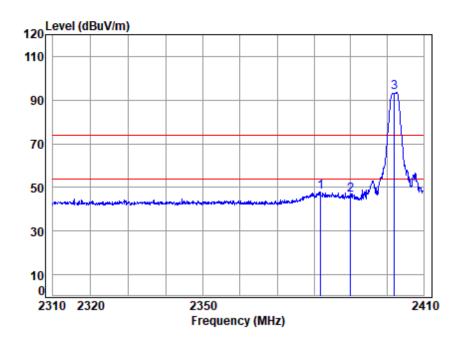


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 26 of 78

Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

: 02753AT Job No

: 2402 Band edge Mode

: BLE 2M Note

> 1 2

		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		
	2381.773	5.07	28.73	35.64	49.63	47.79	74.00	-26.21	peak	
2	2390.000	5.08	28.76	35.64	48.41	46.61	74.00	-27.39	peak	
	2402 000	5 00	28 81	35 64	95 20	93 46	7/ 00	19 46	noak	



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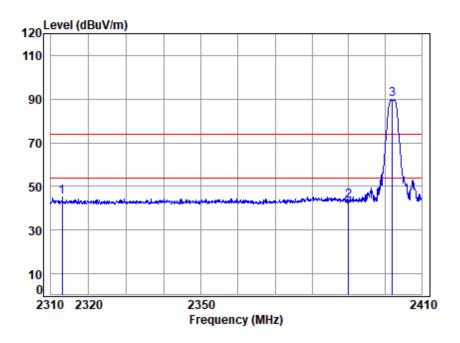


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 27 of 78

Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 02753AT Job No

: 2402 Band edge Mode

: BLE 2M Note

0.00										
		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	2313.037	5.00	28.45	35.67	47.59	45.37	74.00	-28.63	peak	
2	2390.000	5.08	28.76	35.64	45.29	43.49	74.00	-30.51	peak	
3 0	2402 000	5 00	28 81	35 64	91 //	89 70	7/ 00	15 70	nook	



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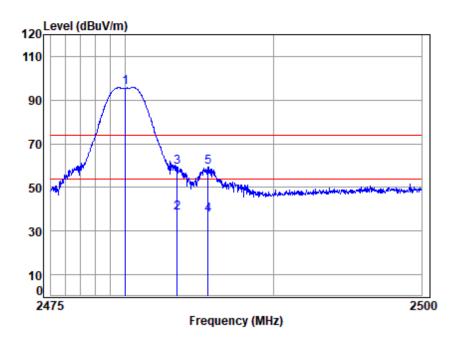


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 28 of 78

Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02753AT

Mode : 2480 Band edge

Note : BLE 2M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2480.000	5.16	29.28	35.61	96.93	95.76	74.00	21.76	peak
2 q	2483.500	5.16	29.30	35.61	39.58	38.43	54.00	-15.57	Average
3	2483.500	5.16	29.30	35.61	60.58	59.43	74.00	-14.57	peak
4	2485.569	5.16	29.31	35.61	38.78	37.64	54.00	-16.36	Average
5	2485.569	5.16	29.31	35.61	60.25	59.11	74.00	-14.89	peak



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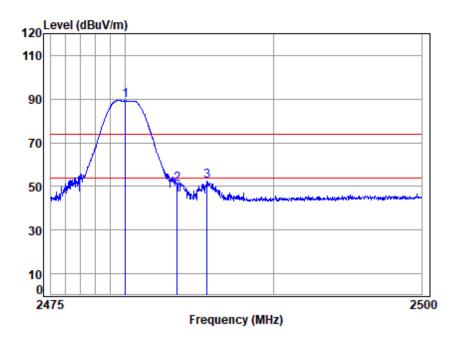


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 29 of 78

Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02753AT

Mode : 2480 Band edge

Note : BLE 2M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2480.000	5.16	29.28	35.61	90.61	89.44	74.00	15.44	peak
2	2483.500	5.16	29.30	35.61	52.29	51.14	74.00	-22.86	peak
3	2485.494	5.16	29.31	35.61	53.38	52.24	74.00	-21.76	peak



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

Report No.: SZCR230800275302

Page: 30 of 78

### 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

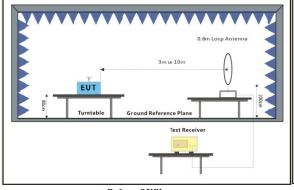
Operating Environment:

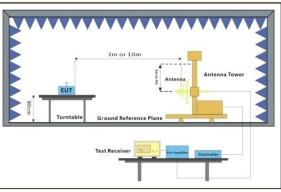
Temperature: 23.2 °C Atmospheric Pressure: 1000 mbar Humidity: 45.8 % RH

### 7.7.2 Test Mode Description

The Tool Mood - Tool Parts										
Pre-scan / Final test	Mode Code	Description								
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								
Pre-scan	03	TX mode(2Mbps)_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/0 Aug01,2022

Report No.: SZCR230800275302

Page: 31 of 78

#### 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.
- a. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

#### Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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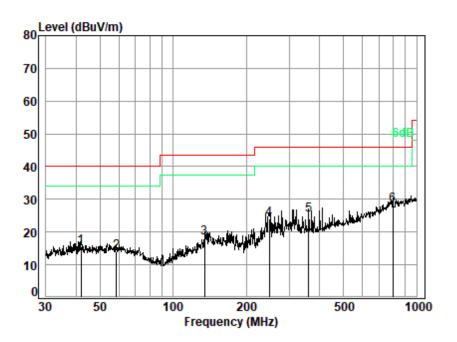


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 32 of 78

Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 02753AT

Test Mode: 02

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	41.86	17.39	0.76	27.77	25.06	15.44	40.00	-24.56	QP
2	58.41	17.40	0.91	27.73	23.56	14.14	40.00	-25.86	QP
3	134.56	16.57	1.38	27.49	27.65	18.11	43.50	-25.39	QP
4	248.55	15.83	1.94	27.08	33.29	23.98	46.00	-22.02	QP
5	360.45	18.77	2.40	27.16	31.12	25.13	46.00	-20.87	QP
6 q	798.98	26.15	3.83	27.61	25.93	28.30	46.00	-17.70	OP



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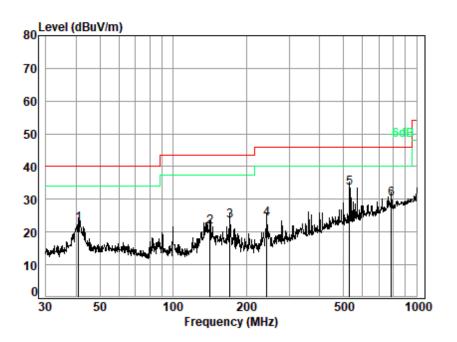


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 33 of 78

Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL Job No. : 02753AT

Test Mode: 02

	Freq	Ant Factor	Cable Loss						Remark	
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	——dB		
1	40.84	17.32	0.76	27.77	32.14	22.45	40.00	-17.55	QP	
2	141.83	17.07	1.42	27.46	30.49	21.52	43.50	-21.98	QP	
3	171.39	16.93	1.58	27.35	32.41	23.57	43.50	-19.93	QP	
4	242.53	15.67	1.92	27.10	33.46	23.95	46.00	-22.05	QP	
5 q	530.10	22.45	2.99	27.92	35.91	33.43	46.00	-12.57	QP	
6	797 95	26 26	3 70	27 65	27 8/	30 24	16 00	15 76	ΛD	



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

Report No.: SZCR230800275302

Page: 34 of 78

### 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

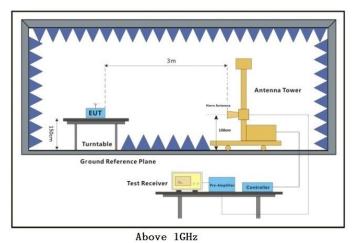
Operating Environment:

Temperature: 22.7 °C Humidity: 53.9 % RH Atmospheric Pressure: 1000 mbar

### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description									
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.									
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.									

### 7.8.3 Test Setup Diagram





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

Report No.: SZCR230800275302

Page: 35 of 78

#### 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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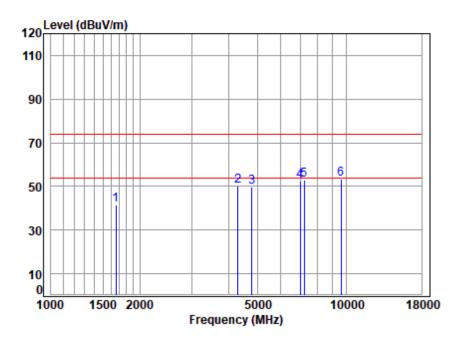


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 36 of 78

Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02753AT Mode : 2402 TX RSE

: BLE 1M

			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	1	.658.337	4.28	26.72	36.50	46.84	41.34	74.00	-32.66	peak
2	4	304.400	6.99	33.60	34.54	44.12	50.17	74.00	-23.83	peak
3	4	1804.000	7.31	33.82	34.86	43.32	49.59	74.00	-24.41	peak
4	6	974.982	8.90	35.75	35.89	43.70	52.46	74.00	-21.54	peak
5	7	206.000	9.18	35.80	35.95	43.72	52.75	74.00	-21.25	peak
6	a 9	608.000	12.36	37.10	35.55	39.67	53.58	74.00	-20.42	peak



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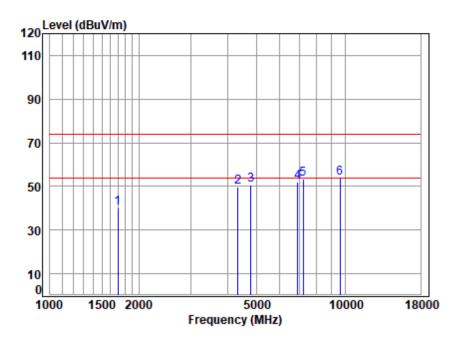


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 37 of 78

Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02753AT

Mode : 2402 TX RSE

: BLE 1M

		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	1702.042	4.33	26.80	36.40	45.44	40.17	74.00	-33.83	peak
2	4341.886	7.02	33.60	34.57	43.75	49.80	74.00	-24.20	peak
3	4804.000	7.31	33.82	34.86	44.45	50.72	74.00	-23.28	peak
4	6914.763	8.86	35.63	35.84	43.54	52.19	74.00	-21.81	peak
5	7206.000	9.18	35.80	35.95	44.28	53.31	74.00	-20.69	peak
6 a	9608.000	12.36	37.10	35.55	40.02	53.93	74.00	-20.07	peak



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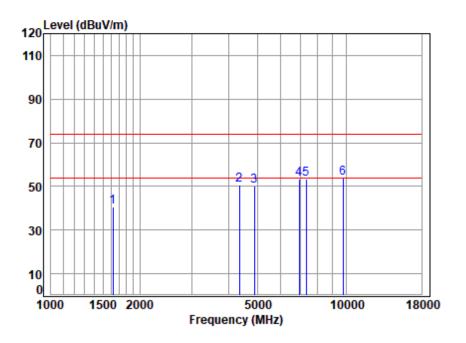


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 38 of 78

Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02753AT Mode : 2440 TX RSE

: BLE 1M

		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	1 22	26 50	26 50	16 EQ	10 72	74 00	22 27	nook
T									•
2	4354.454	7.03	33.59	34.58	44.54	50.58	74.00	-23.42	peak
3	4880.000	7.36	34.06	34.91	43.79	50.30	74.00	-23.70	peak
4	6934.778	8.87	35.67	35.86	44.52	53.20	74.00	-20.80	peak
5	7320.000	9.32	35.90	35.97	44.31	53.56	74.00	-20.44	peak
6	q 9760.000	12.47	37.20	35.56	39.62	53.73	74.00	-20.27	peak



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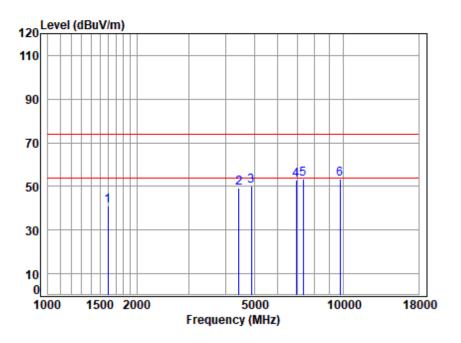


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 39 of 78

Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 02753AT

Mode : 2440 TX RSE

: BLE 1M

		_			Preamp					
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	15	97.181	4.20	26.47	36.64	47.21	41.24	74.00	-32.76	peak
2	44	130.628	7.08	33.50	34.63	43.50	49.45	74.00	-24.55	peak
3	48	80.000	7.36	34.06	34.91	43.86	50.37	74.00	-23.63	peak
4	69	34.778	8.87	35.67	35.86	44.40	53.08	74.00	-20.92	peak
5	73	320.000	9.32	35.90	35.97	43.94	53.19	74.00	-20.81	peak
6	a 97	760.000	12.47	37.20	35.56	39.15	53.26	74.00	-20.74	peak



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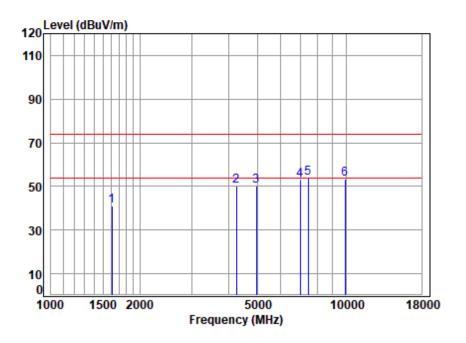


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 40 of 78

Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02753AT

Mode : 2480 TX RSE

: BLE 1M

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1611.091	4.22	26.54	36.60	46.77	40.93	74.00	-33.07	peak
2	4254.921	6.96	33.60	34.51	44.07	50.12	74.00	-23.88	peak
3	4960.000	7.41	34.22	34.96	43.55	50.22	74.00	-23.78	peak
4	6974.982	8.90	35.75	35.89	44.34	53.10	74.00	-20.90	peak
5 q	7440.000	9.46	35.90	35.99	44.32	53.69	74.00	-20.31	peak
6	9920.000	12.58	37.30	35.57	39.29	53.60	74.00	-20.40	peak



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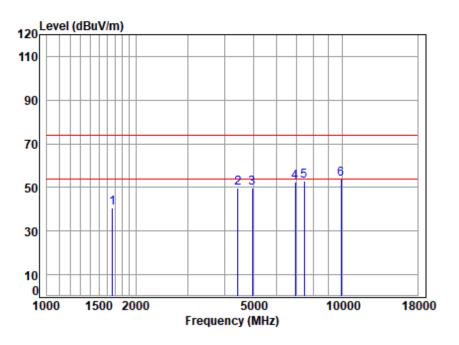


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 41 of 78

Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02753AT

Mode : 2480 TX RSE

: BLE 1M

		Freq			Preamp Factor		Level			Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1667.951	4.29	26.74	36.47	45.85	40.41	74.00	-33.59	peak
2		4430.628	7.08	33.50	34.63	43.81	49.76	74.00	-24.24	peak
3		4960.000	7.41	34.22	34.96	43.24	49.91	74.00	-24.09	peak
4		6934.778	8.87	35.67	35.86	43.76	52.44	74.00	-21.56	peak
5		7440.000	9.46	35.90	35.99	43.70	53.07	74.00	-20.93	peak
6	q	9920.000	12.58	37.30	35.57	39.67	53.98	74.00	-20.02	peak



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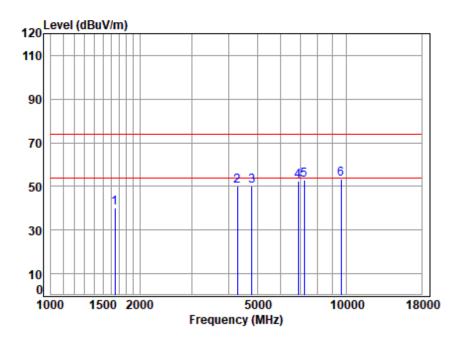


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 42 of 78

Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02753AT Mode : 2402 TX RSE

: BLE 2M

		Freq			Preamp Factor		Level			Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1648.778	4.26	26.70	36.52	45.48	39.92	74.00	-34.08	peak
2		4291.977	6.99	33.60	34.54	44.01	50.06	74.00	-23.94	peak
3		4804.000	7.31	33.82	34.86	43.83	50.10	74.00	-23.90	peak
4		6874.906	8.83	35.60	35.81	43.82	52.44	74.00	-21.56	peak
5		7206.000	9.18	35.80	35.95	43.81	52.84	74.00	-21.16	peak
6	q	9608.000	12.36	37.10	35.55	39.46	53.37	74.00	-20.63	peak



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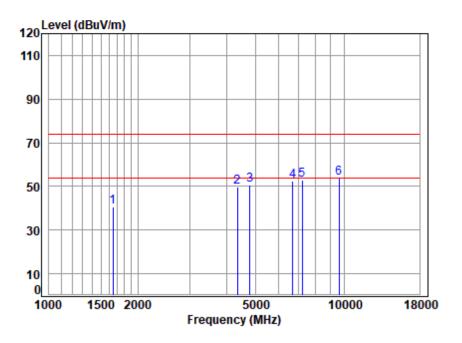


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 43 of 78

Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02753AT

Mode : 2402 TX RSE

: BLE 2M

		Freq			Preamp Factor		Level			Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1648.778	4.26	26.70	36.52	46.15	40.59	74.00	-33.41	peak
2		4354.454	7.03	33.59	34.58	43.72	49.76	74.00	-24.24	peak
3		4804.000	7.31	33.82	34.86	44.58	50.85	74.00	-23.15	peak
4		6698.373	8.71	35.60	35.66	44.02	52.67	74.00	-21.33	peak
5		7206.000	9.18	35.80	35.95	43.68	52.71	74.00	-21.29	peak
6	q	9608.000	12.36	37.10	35.55	40.05	53.96	74.00	-20.04	peak



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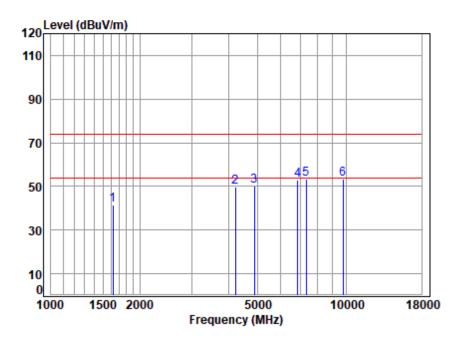


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 44 of 78

Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02753AT 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	1625.121	4.23	26.60	36.57	47.38	41.64	74.00	-32.36	peak
2	4218.186	6.93	33.47	34.48	43.80	49.72	74.00	-24.28	peak
3	4880.000	7.36	34.06	34.91	43.82	50.33	74.00	-23.67	peak
4	6855.063	8.82	35.60	35.79	44.10	52.73	74.00	-21.27	peak
5 q	7320.000	9.32	35.90	35.97	44.03	53.28	74.00	-20.72	peak
6	9760.000	12.47	37.20	35.56	39.07	53.18	74.00	-20.82	peak



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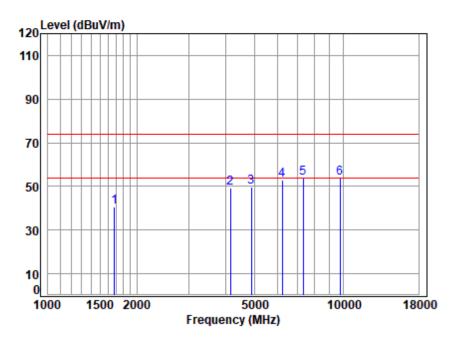


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 45 of 78

Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 02753AT

Mode : 2440 TX RSE

: BLE 2M

		Freq			Preamp Factor		Level			Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1682.477	4.31	26.77	36.44	46.09	40.73	74.00	-33.27	peak
2		4157.664	6.89	33.15	34.44	43.86	49.46	74.00	-24.54	peak
3		4880.000	7.36	34.06	34.91	43.31	49.82	74.00	-24.18	peak
4		6213.441	8.34	35.20	35.24	44.41	52.71	74.00	-21.29	peak
5		7320.000	9.32	35.90	35.97	44.41	53.66	74.00	-20.34	peak
6	q	9760.000	12.47	37.20	35.56	39.56	53.67	74.00	-20.33	peak



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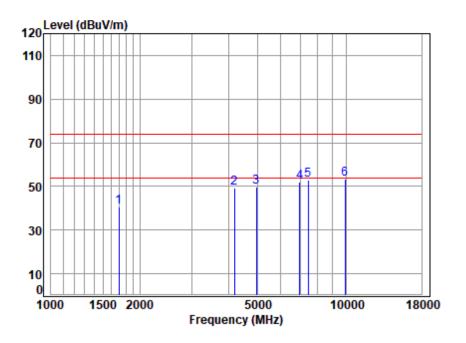


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 46 of 78

Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02753AT Mode : 2480 TX RSE

: BLE 2M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	4.33	26.80	36.40	46.11	40.84	74.00	-33.16	peak
2	4181.768	6.91	33.29	34.46	43.52	49.26	74.00	-24.74	peak
3	4960.000	7.41	34.22	34.96	43.18	49.85	74.00	-24.15	peak
4	6954.852	8.89	35.71	35.87	43.34	52.07	74.00	-21.93	peak
5	7440.000	9.46	35.90	35.99	43.62	52.99	74.00	-21.01	peak
6	q 9920.000	12.58	37.30	35.57	39.18	53.49	74.00	-20.51	peak



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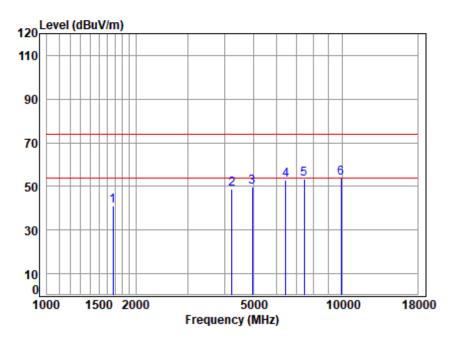


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 47 of 78

Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02753AT Mode : 2480 TX RSE

: BLE 2M

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	——dB	dR/m	dB		dBuV/m	dBuV/m	——dB	
	PILIZ	ub.	ub/III	ub	abav	ubuv/iii	ubuv/iii	ub	
1	1672.779	4.30	26.75	36.46	46.42	41.01	74.00	-32.99	peak
2	4230.396	6.94	33.52	34.49	43.01	48.98	74.00	-25.02	peak
3	4960.000	7.41	34.22	34.96	43.06	49.73	74.00	-24.27	peak
4	6432.732	8.51	35.37	35.43	44.35	52.80	74.00	-21.20	peak
5	7440.000	9.46	35.90	35.99	43.99	53.36	74.00	-20.64	peak
6 a	9920.000	12.58	37.30	35.57	39.36	53.67	74.00	-20.33	peak



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

Report No.: SZCR230800275302

Page: 48 of 78

#### **Emission Test Results** 8

### 8.1 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)

47 CFR Part 15, Subpart C 15.247 Test Requirement: Test Method: ANSI C63.10 (2013) Section 6.2

#### Limit:

0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

### 8.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 47.6 % RH Atmospheric Pressure: 1000 mbar

### 8.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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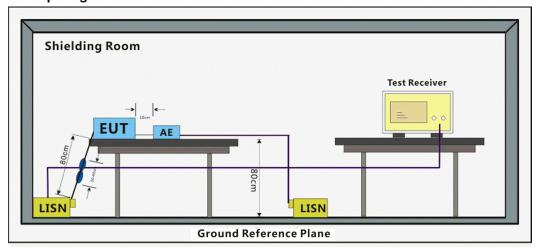


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 49 of 78

#### 8.1.3 Test Setup Diagram



#### 8.1.4 Measurement Procedure and Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

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



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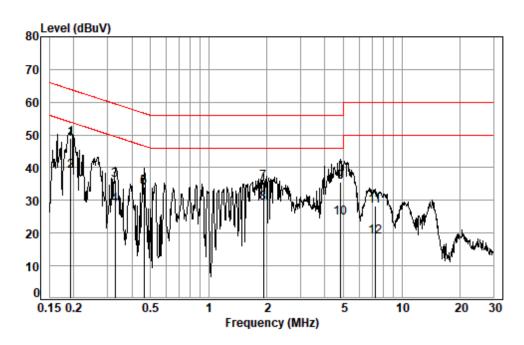


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 50 of 78

Test Mode: 02; Line: Live line



: Shielding Room

Condition: Line Job No. : 02753AT

Test mode: 02

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1934	0.02	9.62	39.42	49.06	63.89	-14.83	QP
2	0.1934	0.02	9.62	29.36	39.00	53.89	-14.89	Average
3	0.3268	0.03	9.62	26.70	36.35	59.53	-23.18	QP
4	0.3268	0.03	9.62	18.88	28.53	49.53	-21.00	Average
5	0.4637	0.04	9.62	24.28	33.94	56.63	-22.69	QP
6 *	0.4637	0.04	9.62	23.97	33.63	46.63	-13.00	Average
7	1.9284	0.07	9.64	25.86	35.57	56.00	-20.43	QP
8	1.9284	0.07	9.64	19.48	29.19	46.00	-16.81	Average
9	4.8224	0.09	9.67	25.76	35.52	56.00	-20.48	QP
10	4.8224	0.09	9.67	14.88	24.64	46.00	-21.36	Average
11	7.2518	0.13	9.71	18.37	28.21	60.00	-31.79	QP
12	7.2518	0.13	9.71	8.93	18.77	50.00	-31.23	Average



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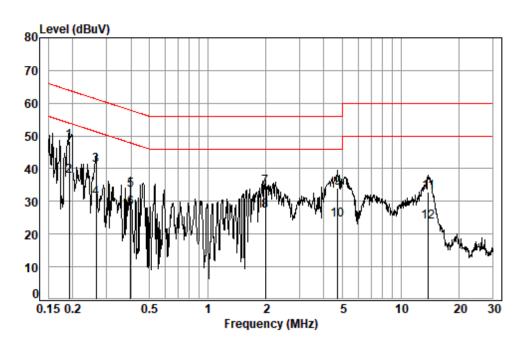


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 51 of 78

Test Mode: 02; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 02753AT

Test mode: 02

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1924	0.02	9.62	38.70	48.34	63.93	-15.59	QP
2 *	0.1924	0.02	9.62	28.02	37.66	53.93	-16.27	Average
3	0.2644	0.03	9.62	31.35	41.00	61.29	-20.29	QP
4	0.2644	0.03	9.62	21.44	31.09	51.29	-20.20	Average
5	0.3976	0.03	9.62	23.91	33.56	57.90	-24.34	QP
6	0.3976	0.03	9.62	18.32	27.97	47.90	-19.93	Average
7	1.9906	0.07	9.64	24.64	34.35	56.00	-21.65	QP
8	1.9906	0.07	9.64	17.24	26.95	46.00	-19.05	Average
9	4.7213	0.09	9.68	24.18	33.95	56.00	-22.05	QP
10	4.7213	0.09	9.68	14.52	24.29	46.00	-21.71	Average
11	13.9146	0.22	9.90	22.62	32.74	60.00	-27.26	QP
12	13.9146	0.22	9.90	13.72	23.84	50.00	-26.16	Average



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

Report No.: SZCR230800275302

Page: 52 of 78

#### **Test Setup Photo** 9

Refer to Setup Photo for SZCR2308002753AT

# 10 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2308002753AT



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

Report No.: SZCR230800275302

Page: 53 of 78

# 11 Appendix

1. Duty Cycle

1.1 Ant1

#### 1.1.1 Test Result

	Ant1									
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)			
		2402	0.384	0.625	61.44	2.12	0.00			
1M	SISO	2440	0.393	0.625	62.88	2.01	0.03			
		2480	0.393	0.625	62.88	2.01	0.00			
		2402	0.213	0.625	34.08	4.68	0.00			
2M	SISO	2440	0.213	0.625	34.08	4.68	0.00			
		2480	0.213	0.625	34.08	4.68	0.00			



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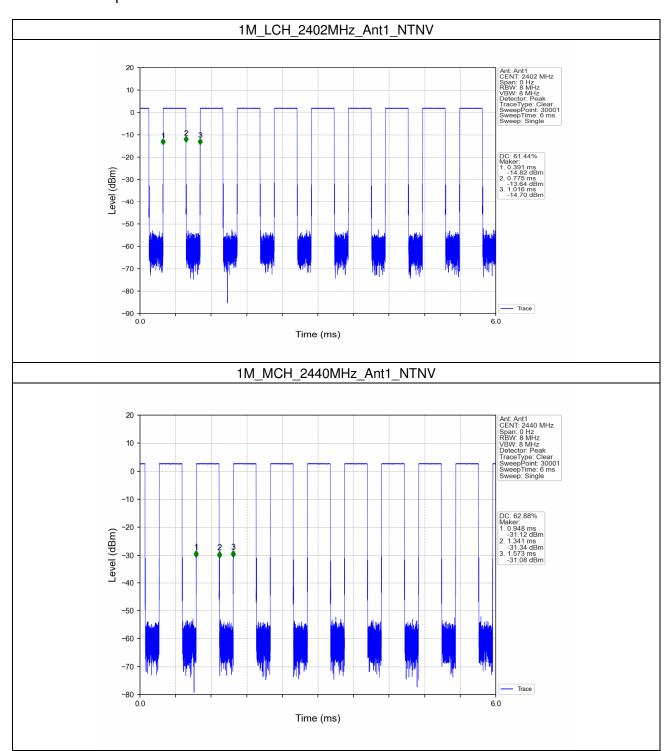


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 54 of 78

### 1.1.2 Test Graph





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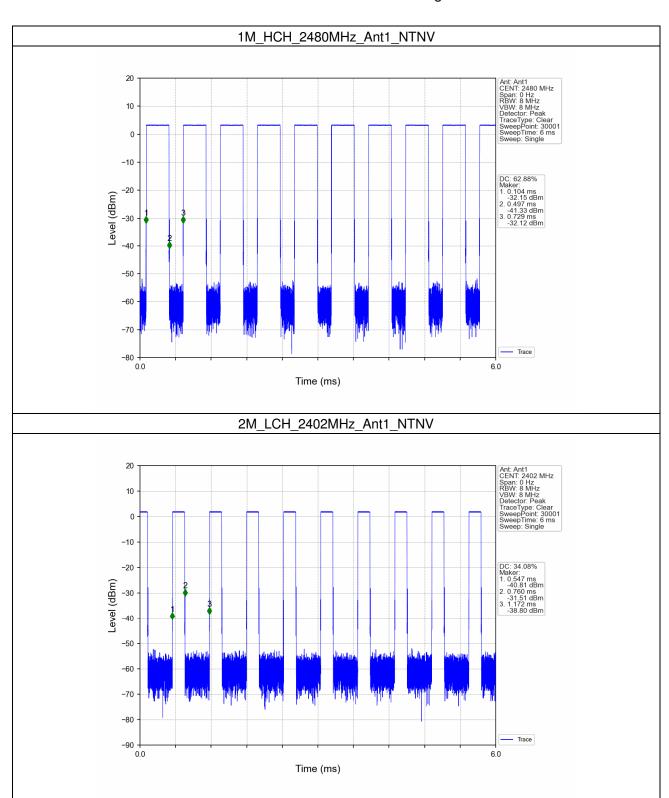
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Report No.: SZCR230800275302

Page: 55 of 78





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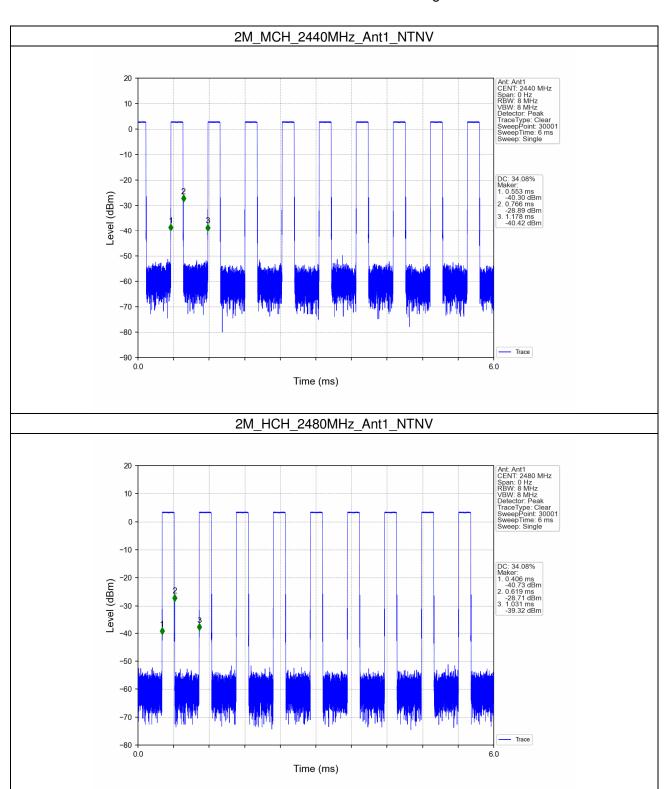
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Report No.: SZCR230800275302

Page: 56 of 78





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

Report No.: SZCR230800275302

Page: 57 of 78

### 2. Bandwidth

2.1 OBW

#### 2.1.1 Test Result

Mode	TX	Frequency	ANT	99% Occupied Bandwidth (MHz)	Verdict
Mode	Type	(MHz)	AINI	Result	
		2402	1	1.055	Pass
1M	SISO	2440	1	1.066	Pass
		2480	1	1.077	Pass
	SISO 2440 2480	2402	1	2.059	Pass
2M		2440	1	2.063	Pass
		2480	1	2.065	Pass



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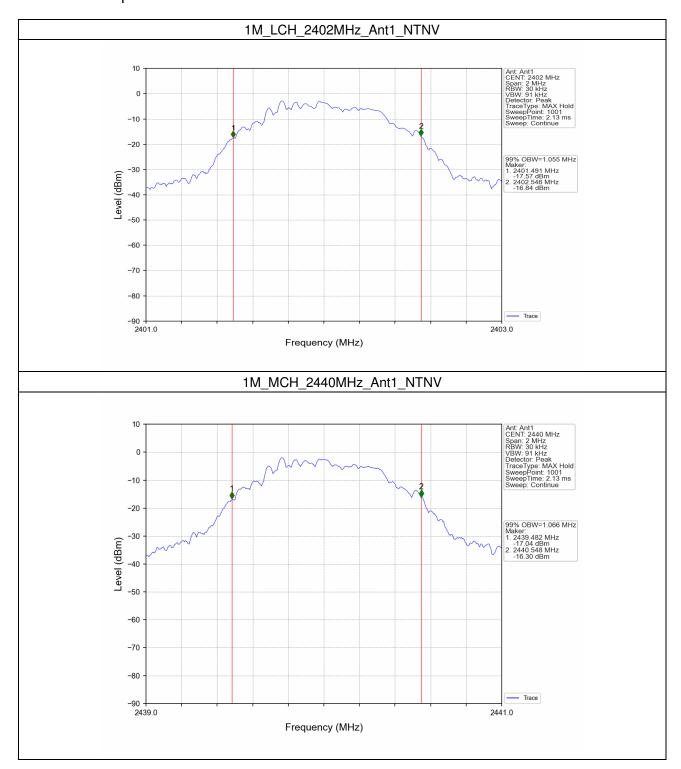


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 58 of 78

### 2.1.2 Test Graph





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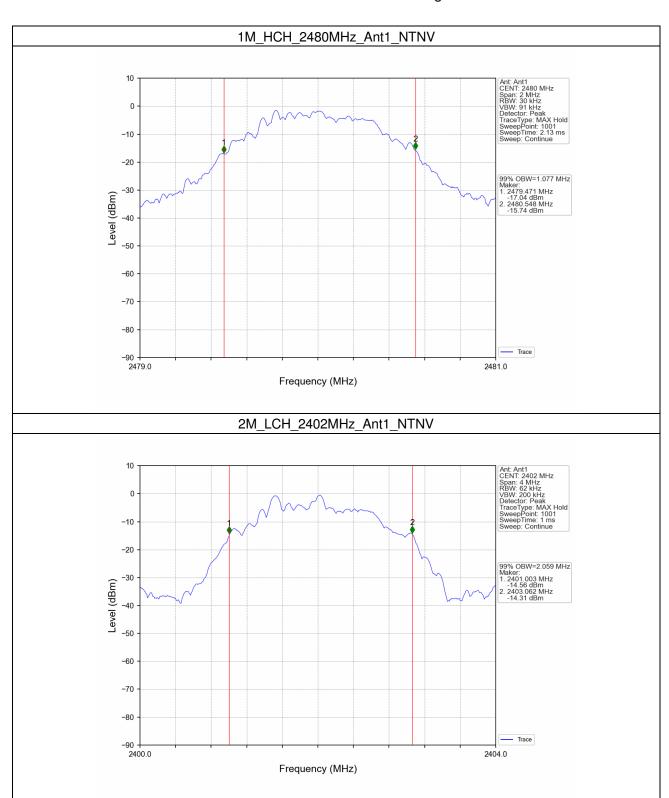
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Report No.: SZCR230800275302

Page: 59 of 78





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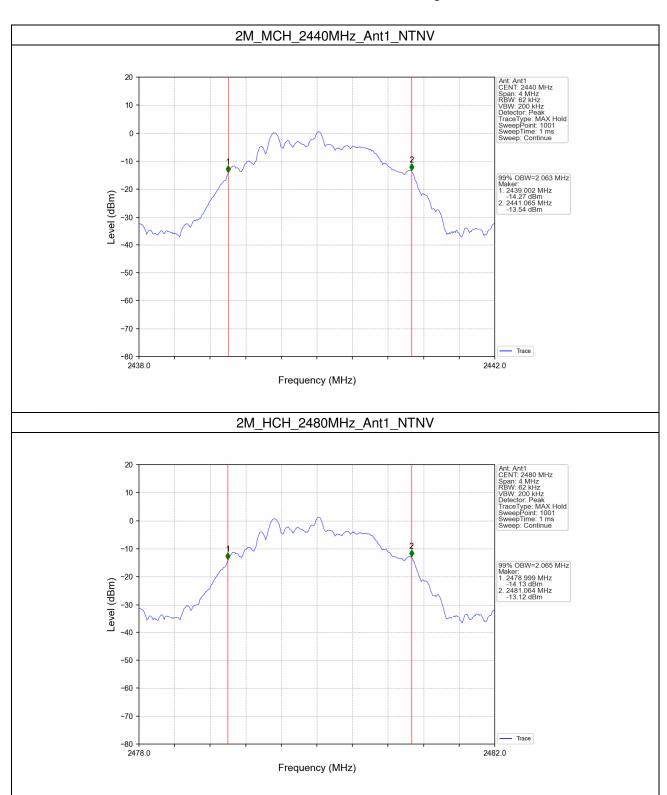
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Report No.: SZCR230800275302

Page: 60 of 78





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

Report No.: SZCR230800275302

Page: 61 of 78

### 2.2 6dB BW

#### 2.2.1 Test Result

Mada	TX	Frequency (MHz) ANT	ANIT	6dB Bandv	Vordict	
Mode	Туре		AINT	Result	Limit	Verdict
		2402	1	0.694	>=0.5	Pass
1M	SISO	2440	1	0.708	>=0.5	Pass
		2480	1	0.707	>=0.5	Pass
		2402	1	1.168	>=0.5	Pass
2M	SISO	2440	1	1.168	>=0.5	Pass
		2480	1	1.165	>=0.5	Pass



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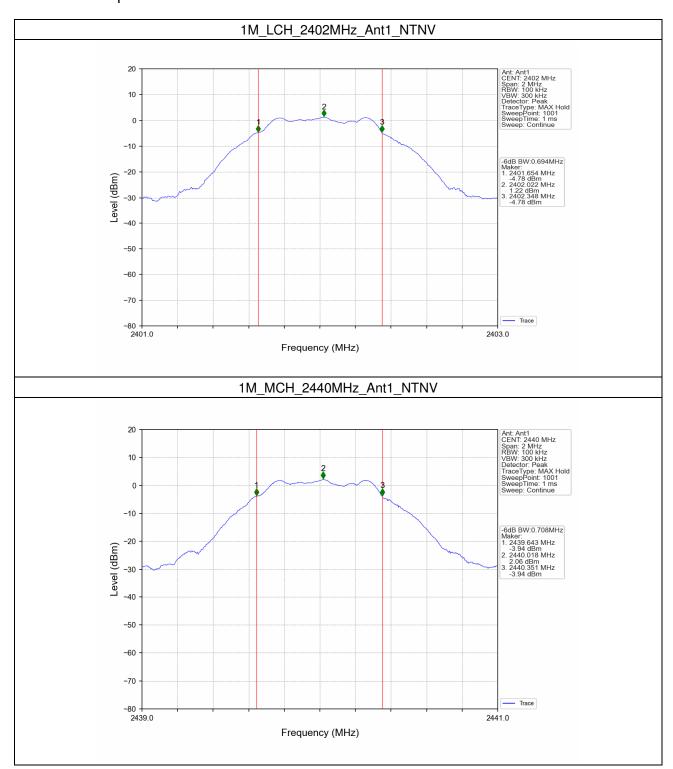


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Page: 62 of 78

### 2.2.2 Test Graph





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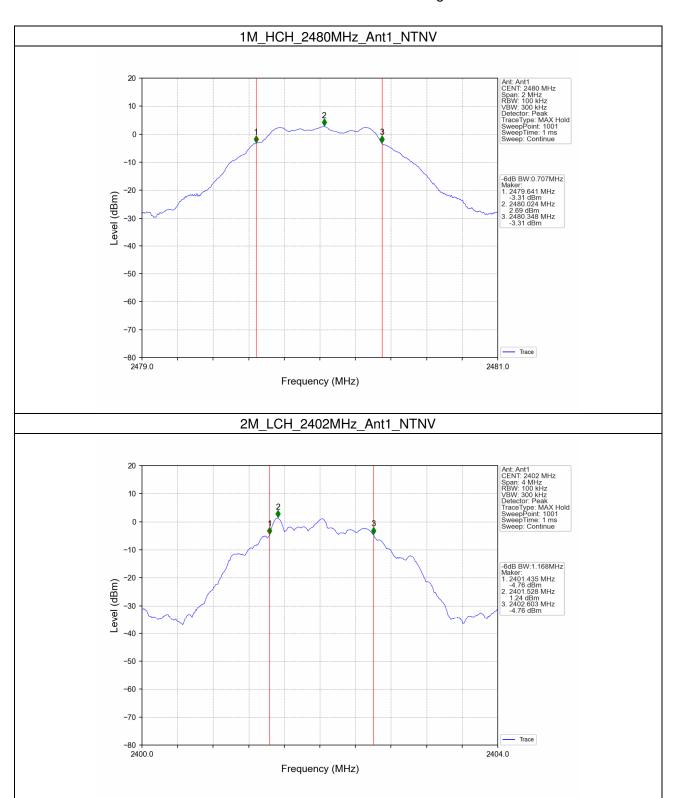
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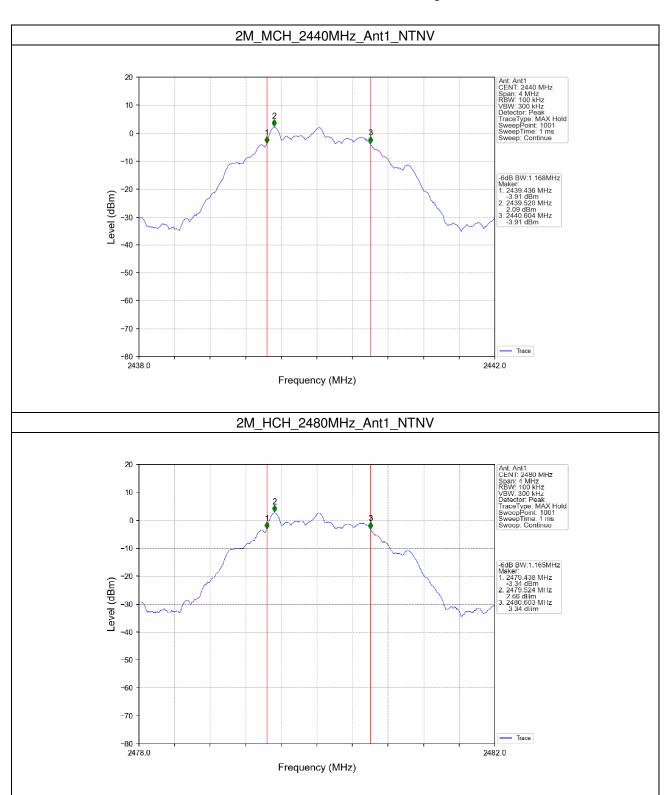
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Page: 64 of 78





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Report No.: SZCR230800275302

Page: 65 of 78

### 3. Maximum Conducted Output Power

### 3.1 Power

#### 3.1.1 Test Result

Mode	TX	Frequency	Maximum Peak Conduc	Vaudiat	
	Туре	(MHz)	ANT1	Limit	Verdict
		2402	1.90	<=30	Pass
1M	SISO	2440	2.69	<=30	Pass
		2480	3.26	<=30	Pass
2M S		2402	1.92	<=30	Pass
	SISO	2440	2.78	<=30	Pass
		2480	3.34	<=30	Pass

## 4. Maximum Power Spectral Density

#### 4.1 PSD

#### 4.1.1 Test Result

Mada	TX	Frequency	Maximum PS	Vaudiat	
Mode	Type	(MHz)	ANT1	Limit	Verdict
		2402	-12.81	<=8	Pass
1M	SISO	2440	-12.02	<=8	Pass
		2480	-11.37	<=8	Pass
	SISO	2402	-15.63	<=8	Pass
2M		2440	-14.56	<=8	Pass
		2480	-14.07	<=8	Pass



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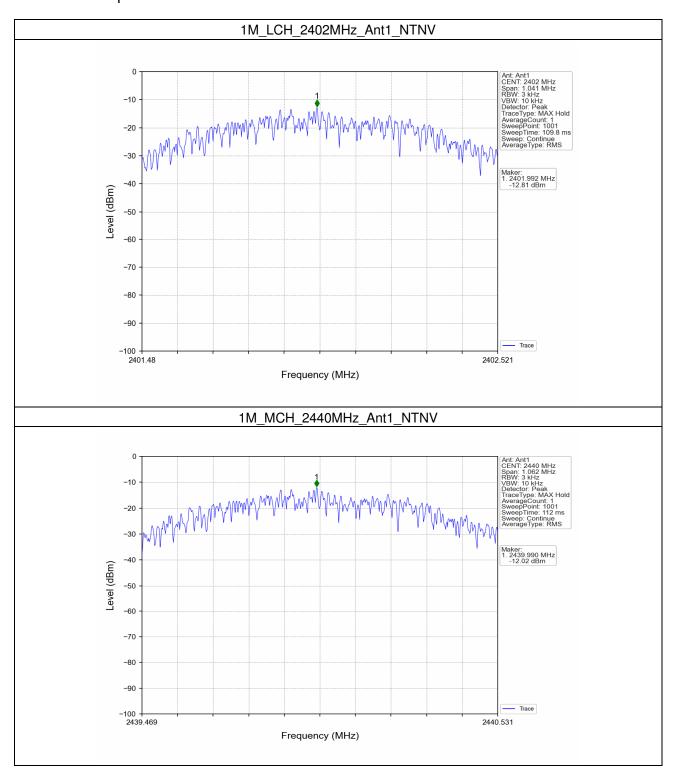


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Page: 66 of 78

### 4.1.2 Test Graph





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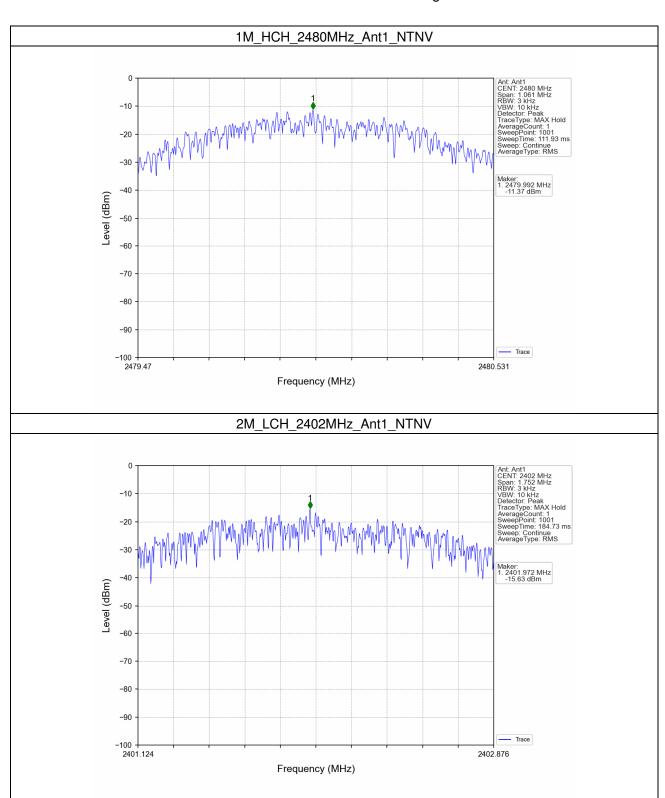
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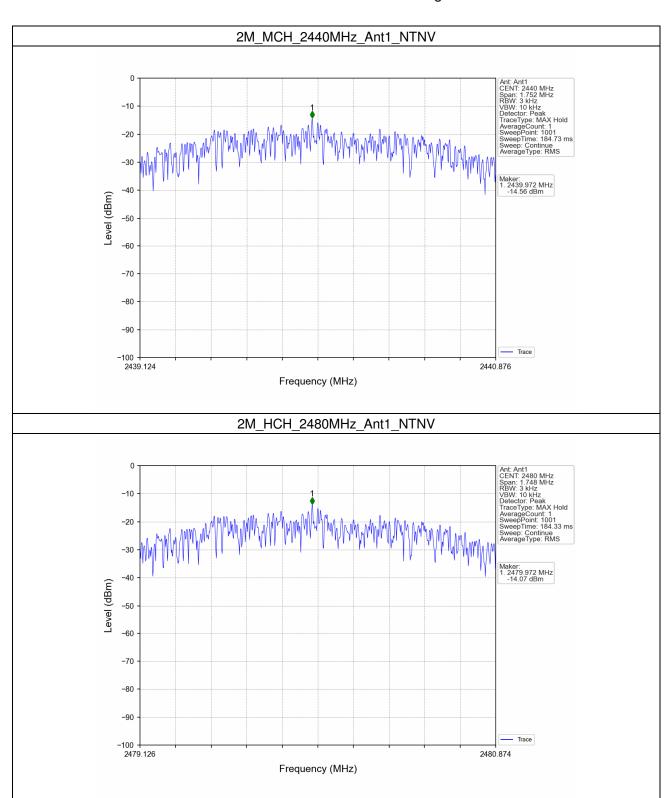
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 69 of 78

### 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	1.23
1M	SISO	2440	1	2.08
		2480	1	2.72
	SISO	2402	1	1.20
2M		2440	1	2.08
		2480	1	2.72



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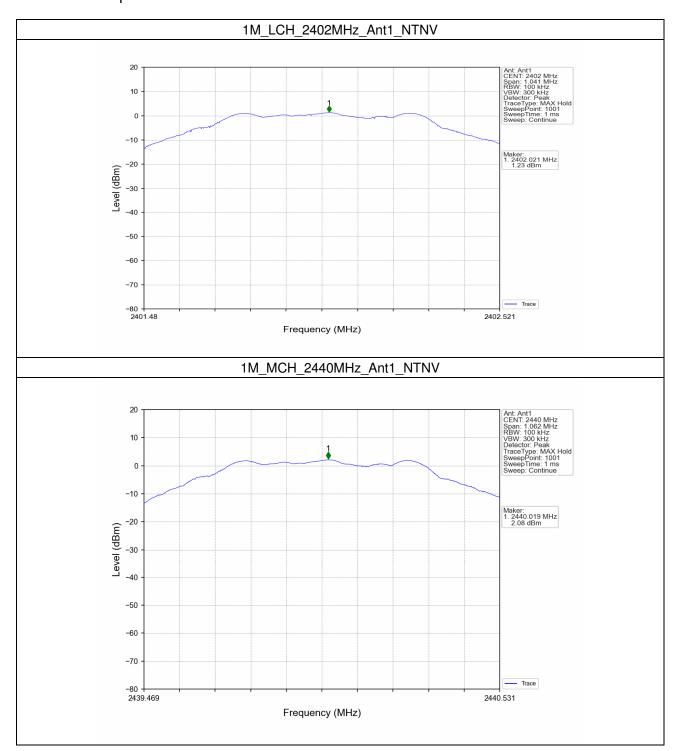


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275302

Page: 70 of 78

### 5.1.2 Test Graph





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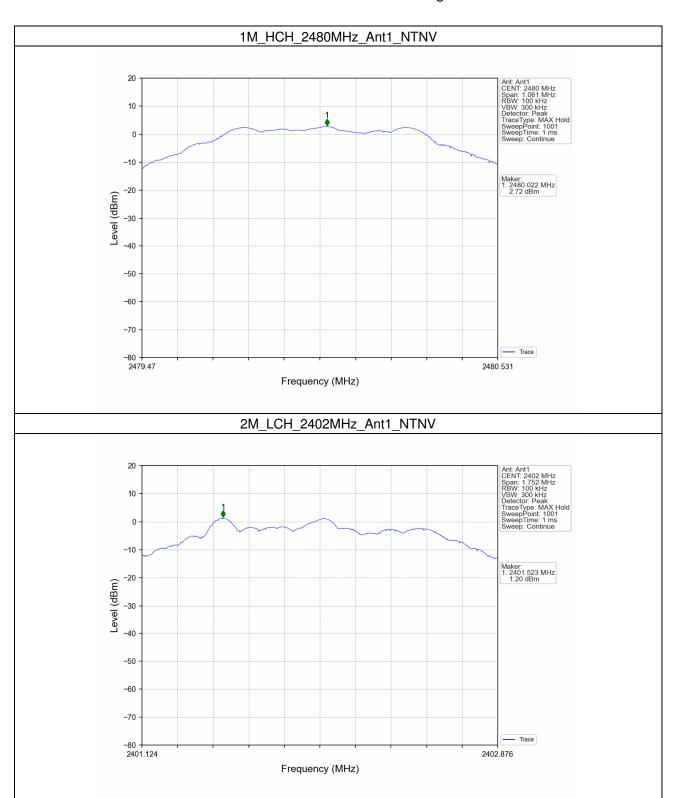
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Report No.: SZCR230800275302

Page: 71 of 78





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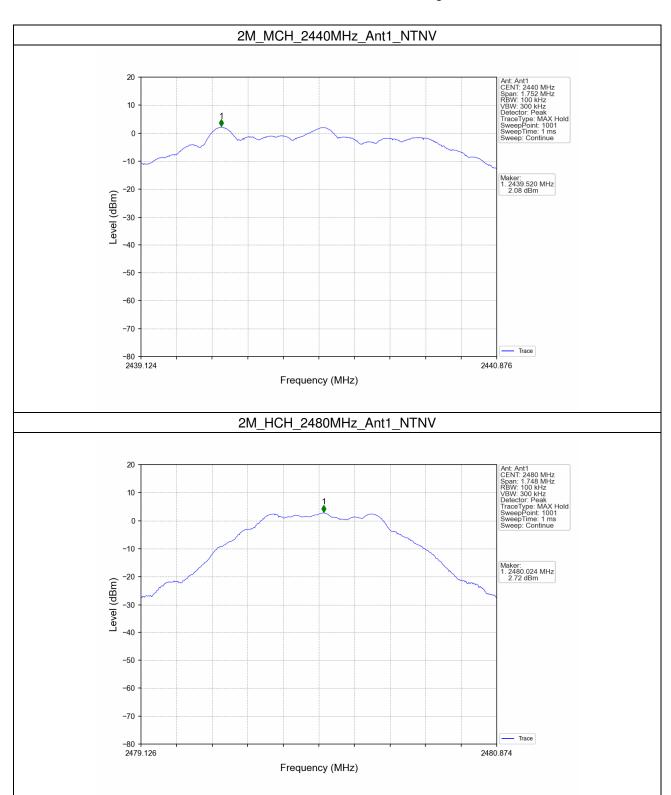
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Report No.: SZCR230800275302

Page: 72 of 78





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

Report No.: SZCR230800275302

Page: 73 of 78

#### **5.2 CSE**

#### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	1	2.72	-17.28	Pass
1M	SISO	2440	1	2.72	-17.28	Pass
		2480	1	2.72	-17.28	Pass
		2402	1	2.72	-17.28	Pass
2M	SISO	2440	1	2.72	-17.28	Pass
		2480	1	2.72	-17.28	Pass



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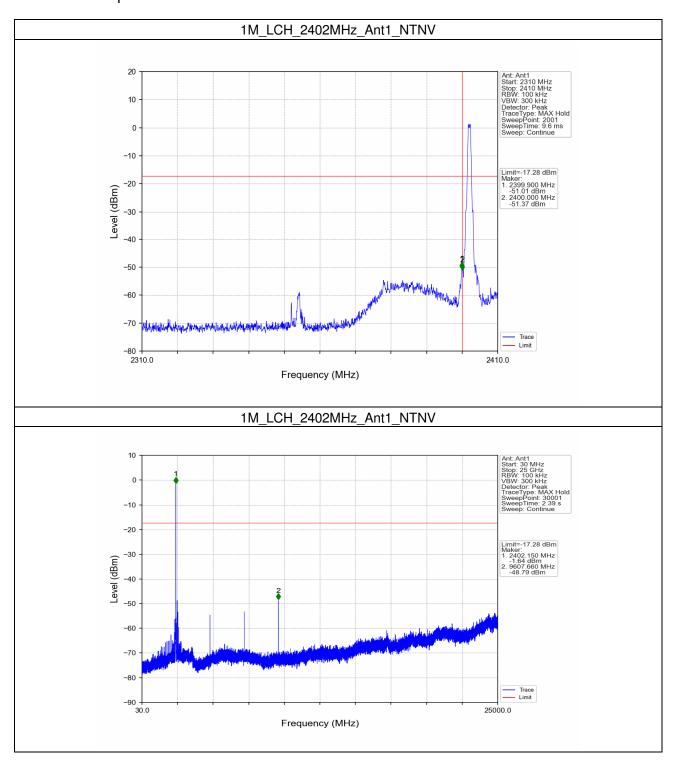


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Report No.: SZCR230800275302

Page: 74 of 78

### 5.2.2 Test Graph





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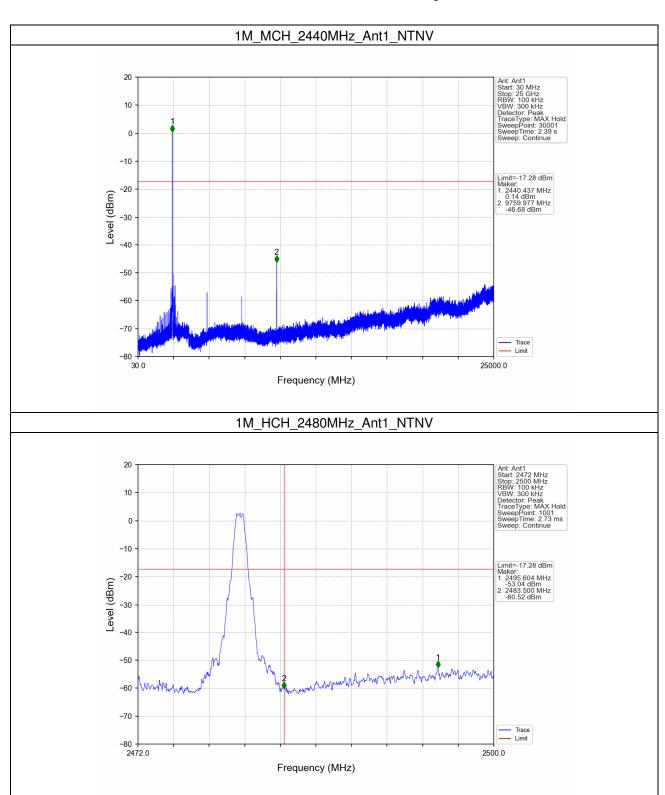
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Report No.: SZCR230800275302

Page: 75 of 78





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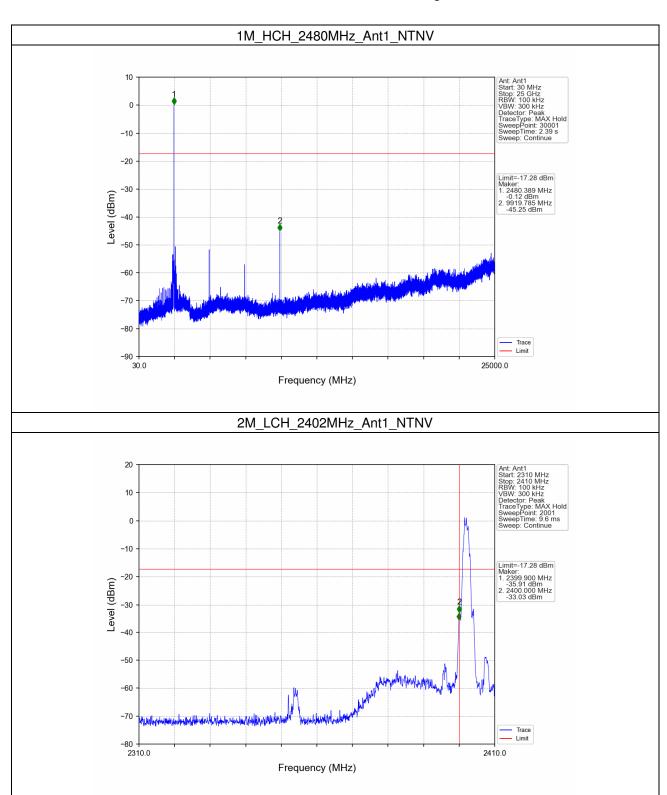
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Page: 76 of 78





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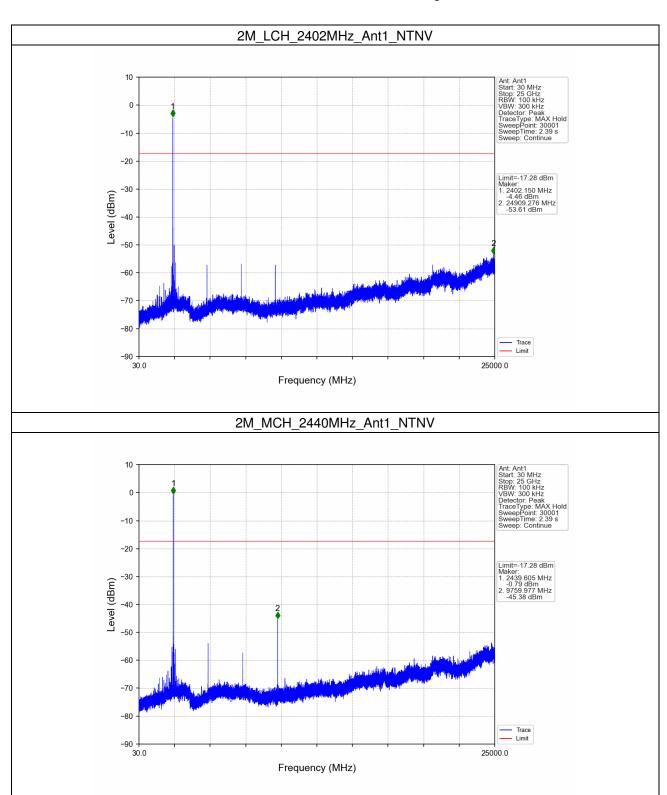
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Page: 77 of 78





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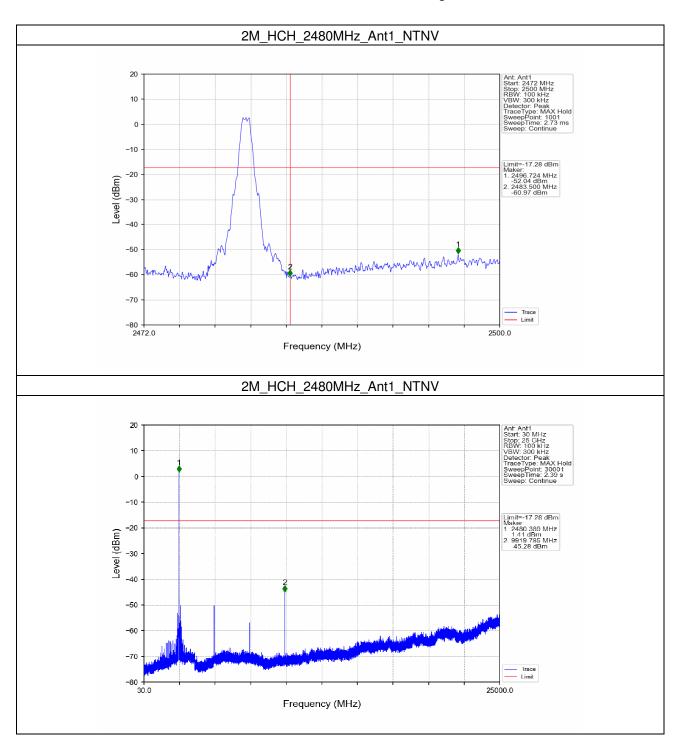
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Page: 78 of 78



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