

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240200051505

> Page: 1 of 85

# TEST REPORT

**Application No.:** SZCR2402000515AT Applicant: B&W Group Ltd.

**Address of Applicant:** Dale Road, Worthing, West Sussex, BN11 2BH, England

Manufacturer: B&W Group Ltd.

Dale Road, Worthing, West Sussex, BN11 2BH, England Address of Manufacturer:

Factory: Merry Electronics (Shenzhen) Co., Ltd. The Second Longhua Branch Address of Factory: Floor1~5, Building A&B, Merry Industrial Park, Huarong Road, Dalang

Street, Longhua New District, 518109 Shenzhen City, Guangdong Province,

PEOPLE'S REPUBLIC OF CHINA

**Equipment Under Test (EUT):** 

**EUT Name:** Charging case of In-ear True Wireless Earbuds

Model No.: Pi8

Trade Mark: **Bowers & Wilkins** FCC ID: 2ACIX-PI8C

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

2024-02-07 **Date of Receipt:** 

Date of Test: 2024-02-20 to 2024-03-04

2024-02-28 Date of Issue:

Test Result: Pass\*

Keny Xu **EMC Laboratory Manager** 

Ceny. Ku



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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 2 of 85

	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2024-02-28		Original			

Authorized for issue by:		
	Brie Chan	
	Bill Chen/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240200051505

> Page: 3 of 85

# **Test Summary**

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

Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result		
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(1)	Pass		
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass		
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass		
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass		
Conducted Band Edges Measurement	47 CFR Part 15,	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Conducted Spurious Emissions	Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 4 of 85

### **Contents**

		Page
1	1 Cover Page	
2	2 Test Summary	
	•	
3	3 Contents	
4	4 General Information	
	4.1 Details of E.U.T	
		nits
	·	· · · · · · · · · · · · · · · · · · ·
	•	
	4.5 Test Facility	
	4.6 Deviation from Standards	
	4.7 Abnormalities from Stand	ard Conditions
5	5 Equipment List	
6	6 Radio Spectrum Technical R	equirement1
	6.1 Antenna Requirement	1;
	6.1.1 Test Requirement:	1;
	6.1.2 Conclusion	1
7	7 Radio Spectrum Matter Test	Results14
		Power14
	•	
		15
		ure and Data19
		AC Power Line (150kHz-30MHz)16
		16
	7.2.2 Test Mode Description	16
	7.2.3 Test Setup Diagram	17
	7.2.4 Measurement Procedu	ure and Data17
	7.3 Minimum 6dB Bandwidth	20
		20
	7.3.2 Test Mode Description	20
		2′
		ure and Data2
		22
	•	22
	•	
		ure and Data22
	•	Measurement23
	7.5.1 E.U.T. Operation	23



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 5 of 85

	7.5.2	Test Mode Description	23
	7.5.3	Test Setup Diagram	24
	7.5.4	Measurement Procedure and Data	24
7.	6 C	Conducted Spurious Emissions	25
	7.6.1	E.U.T. Operation	25
	7.6.2	Test Mode Description	25
	7.6.3	Test Setup Diagram	26
	7.6.4	Measurement Procedure and Data	26
7.	7 F	Radiated Emissions which fall in the restricted bands	27
	7.7.1	E.U.T. Operation	27
	7.7.2	Test Mode Description	27
	7.7.3	Test Setup Diagram	28
	7.7.4	Measurement Procedure and Data	28
7.8	8 F	Radiated Spurious Emissions Below 1GHz	37
	7.8.1	E.U.T. Operation	37
	7.8.2	Test Mode Description	37
	7.8.3	Test Setup Diagram	
	7.8.4	Measurement Procedure and Data	38
7.9	9 F	Radiated Spurious Emissions Above 1GHz	45
	7.9.1	E.U.T. Operation	45
	7.9.2	Test Mode Description	45
	7.9.3	Test Setup Diagram	45
	7.9.4	Measurement Procedure and Data	46
8	Test S	Setup Photo	59
9	EUT C	Constructional Details (EUT Photos)	59
10		ndix	
. •	. <b>.</b> PPC.		



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240200051505

> Page: 6 of 85

### **General Information**

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

Power supply:	Lithium Ion Battery: DC 3.7V 500mAh 1.85Wh rechargeable battery which charged by USB port for charging case
Cable(s):	USB-C Charging cable:55cm unshielded
	USB-C to 3.5mm audio cable:75cm unshielded
Cable Loss (for RF conducted test):	0.4dB
Bluetooth Version:	V5.3 Dual mode
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Rate data:	1Mbps and 2Mbps
Number of Channels:	40
Antenna Type:	PCB Antenna
Antenna Gain:	5.93dBi

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.
Adapter	Apple	A1443	REF. No.SEA05D11D



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 7 of 85

### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Peak Output Power	± 0.75dB
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
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.: SZCR240200051505

> Page: 8 of 85

#### 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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 9 of 85

#### 5 **Equipment List**

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	2023-10-19	2024-10-18	
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 Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13	
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2023-03-20	2024-03-19	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2023-07-07	2024-07-06	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-09-19	2024-09-18	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19	

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	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/1

Report No.: SZCR240200051505

Page: 10 of 85

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	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	2023-10-19	2024-10-18			
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	2023-10-19	2024-10-18			
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/1

Report No.: SZCR240200051505

Page: 11 of 85

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	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	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	2023-03-20	2024-03-19			

Radiated Spurious Emissions Below 1GHz								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26			
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2023-10-19	2024-10-18			
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22			
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2023-03-31	2024-03-30			
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19			
Measurement Software	AUDIX	AUDIX e3 V8.2014-6- 27 N		N/A	N/A			
Coaxial Cable	SGS	N/A	SEM029-01	2023-07-07	2024-07-06			



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Report No.: SZCR240200051505

Page: 12 of 85

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	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	2023-03-20	2024-03-19			

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/1 Report No.: SZCR240200051505

> Page: 13 of 85

#### 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 Charging case:5.93dBi

Antenna location: Refer to internal photo



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Report No.: SZCR240200051505

Page: 14 of 85

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

### 7.1 Conducted Peak Output Power

47 CFR Part 15, Subpart C 15.247(b)(1) 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:

23.4 °C Temperature: Humidity: 43.9 % RH Atmospheric Pressure: 1020 mbar

#### 7.1.2 Test Mode Description

Tinz Tool Mode Becomption					
Pre-scan / Final test	Mode Code	Description			
Final test	11	TX mode(1Mbps)(charging case)_Keep the EUT in continuously transmitting mode with GFSK modulation.			
Final test	12	TX mode(2Mbps)(charging case)_Keep the EUT in continuously transmitting mode with GESK modulation.			



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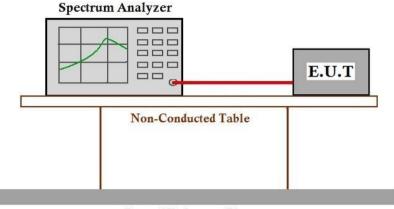
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> Page: 15 of 85

#### 7.1.3 Test Setup Diagram



Ground Reference Plane

#### 7.1.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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Report No.: SZCR240200051505

Page: 16 of 85

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

47 CFR Part 15, Subpart C 15.247(b)(3) Test Requirement

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

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

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Atmospheric Pressure: 1020 mbar Humidity: 47.2 % RH

#### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	Charge + TX mode(1Mbps)(charging case)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Pre-scan	14	Charge + TX mode(2Mbps)(charging case)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.



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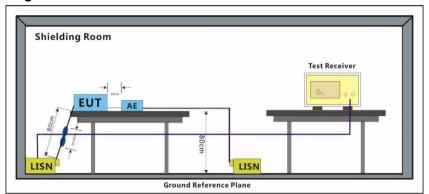
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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240200051505

> Page: 17 of 85

### 7.2.3 Test Setup Diagram



#### 7.2.4 Measurement Procedure and Data

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

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



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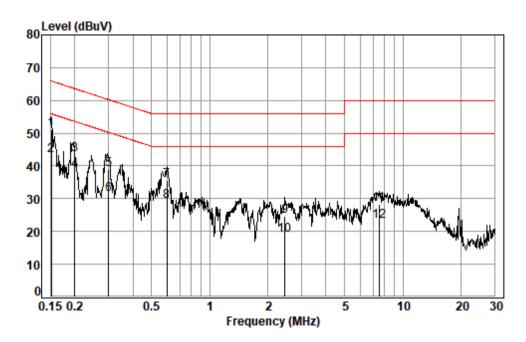


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 18 of 85

Test Mode: 13: Line: Live line



: Shielding Room

Condition: Line

: 00515AT/00516AT Job No.

Test mode: 13

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1516	0.02	9.88	41.27	51.17	65.91	-14.74	QP
2 *	0.1516	0.02	9.88	33.32	43.22	55.91	-12.69	Average
3	0.2007	0.02	9.93	33.67	43.62	63.58	-19.96	QP
4	0.2007	0.02	9.93	28.54	38.49	53.58	-15.09	Average
5	0.3003	0.03	10.01	28.79	38.83	60.24	-21.41	QP
6	0.3003	0.03	10.01	21.44	31.48	50.24	-18.76	Average
7	0.6011	0.04	9.98	25.72	35.74	56.00	-20.26	QP
8	0.6011	0.04	9.98	19.12	29.14	46.00	-16.86	Average
9	2.4606	0.07	10.02	14.54	24.63	56.00	-31.37	QP
10	2.4606	0.07	10.02	8.91	19.00	46.00	-27.00	Average
11	7.5258	0.13	10.13	18.01	28.27	60.00	-31.73	QP
12	7.5258	0.13	10.13	12.71	22.97	50.00	-27.03	Average



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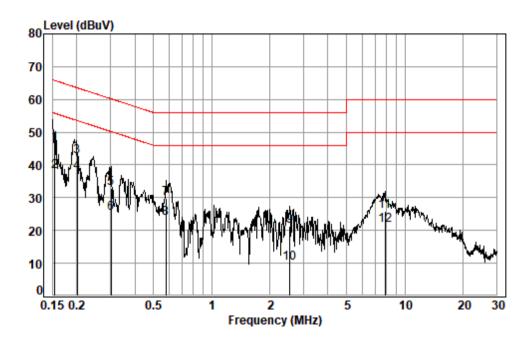


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 19 of 85

Test Mode: 13; Line: Neutral Line



: Shielding Room

Condition: Neutral

Job No. : 00515AT/00516AT

Test mode: 13

	_	Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1540	0.02	9.88	36.66	46.56	65.78	-19.22	QP
2	0.1540	0.02	9.88	28.12	38.02	55.78	-17.76	Average
3	0.2018	0.02	9.92	32.54	42.48	63.54	-21.06	QP
4 *	0.2018	0.02	9.92	27.70	37.64	53.54	-15.90	Average
5	0.3019	0.03	9.91	22.94	32.88	60.19	-27.31	QP
6	0.3019	0.03	9.91	15.32	25.26	50.19	-24.93	Average
7	0.5792	0.04	9.97	19.77	29.78	56.00	-26.22	QP
8	0.5792	0.04	9.97	13.83	23.84	46.00	-22.16	Average
9	2.5400	0.07	9.96	11.37	21.40	56.00	-34.60	QP
10	2.5400	0.07	9.96	-0.02	10.01	46.00	-35.99	Average
11	7.8934	0.14	10.15	15.67	25.96	60.00	-34.04	QP
12	7.8934	0.14	10.15	11.35	21.64	50.00	-28.36	Average

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Report No.: SZCR240200051505

Page: 20 of 85

### 7.3 Minimum 6dB Bandwidth

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

Limit:

≥500 kHz

### 7.3.1 E.U.T. Operation

Operating Environment:

23.4 °C Temperature: Humidity: 43.9 % RH Atmospheric Pressure: 1020 mbar

#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	TX mode(1Mbps)(charging case)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	12	TX mode(2Mbps)(charging case)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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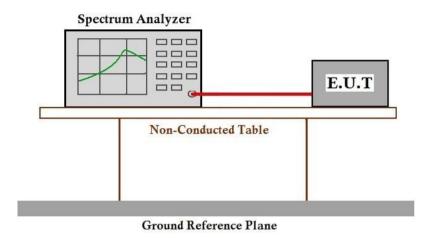
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> Page: 21 of 85

### 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.: SZCR240200051505

Page: 22 of 85

### 7.4 Power Spectrum Density

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

Limit:

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

### 7.4.1 E.U.T. Operation

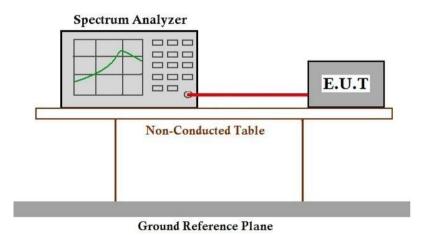
Operating Environment:

Temperature: 23.4 °C Humidity: 43.9 % RH Atmospheric Pressure: 1020 mbar

### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	TX mode(1Mbps)(charging case)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	12	TX mode(2Mbps)(charging case)_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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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240200051505

> Page: 23 of 85

### 7.5 Conducted Band Edges Measurement

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

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 43.9 % RH Atmospheric Pressure: 1020 mbar

### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	TX mode(1Mbps)(charging case)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	12	TX mode(2Mbps)(charging case)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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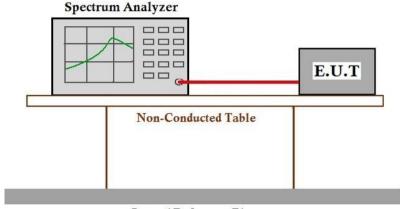


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 24 of 85

### 7.5.3 Test Setup Diagram



**Ground Reference Plane** 

### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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> Page: 25 of 85

### 7.6 Conducted Spurious Emissions

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

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 43.9 % RH Atmospheric Pressure: 1020 mbar

### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	TX mode(1Mbps)(charging case)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	12	TX mode(2Mbps)(charging case)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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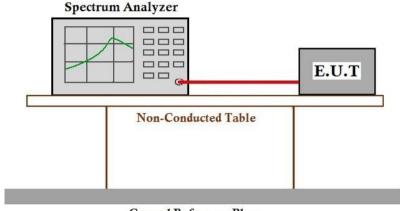


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 26 of 85

### 7.6.3 Test Setup Diagram



**Ground Reference Plane** 

### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 27 of 85

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

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

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

Limit:

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

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

### 7.7.1 E.U.T. Operation

Operating Environment:

23.4 °C Temperature: Humidity: 43.9 % RH Atmospheric Pressure: 1020 mbar

### 7.7.2 Test Mode Description

7.7.2 Test Mode Description									
Pre-scan / Final test	Mode Code	Description							
Final test	11	TX mode(1Mbps)(charging case)_Keep the EUT in continuously transmitting mode with GFSK modulation.							
Final test	12	TX mode(2Mbps)(charging case)_Keep the EUT in continuously transmitting mode with GFSK modulation.							
Final test	13	Charge + TX mode(1Mbps)(charging case)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.							
Final test	14	Charge + TX mode(2Mbps)(charging case)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.							



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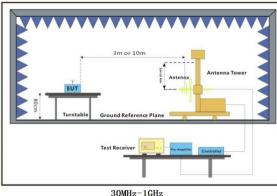
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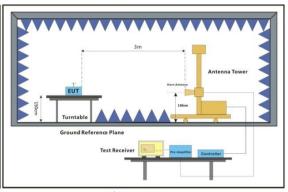


SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240200051505

> Page: 28 of 85

#### 7.7.3 Test Setup Diagram





Above 1GHz

#### 7.7.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 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 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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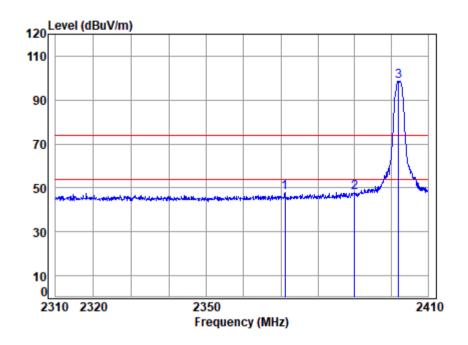


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 29 of 85

Test Mode: 11; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT : 2402 Band edge Mode

: BLE 1M Note

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2371.10	5.06	29.10	37.48	51.25	47.93	74.00	-26.07	peak
2	2390.00	5.08	29.10	37.44	51.01	47.75	74.00	-26.25	peak
3	2402.00	5.09	29.09	37.41	101.65	98.42	74.00	24.42	peak



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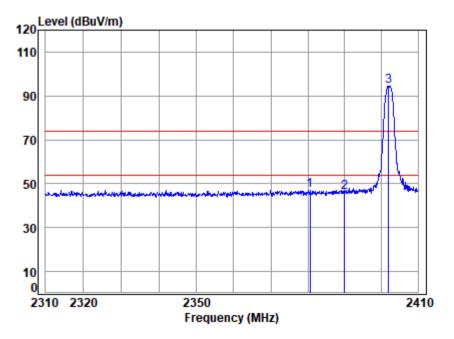


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 30 of 85

Test Mode: 11; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2402 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	2380.56	5.07	29.10	37.46	50.46	47.17	74.00	-26.83	peak	
2	2390.00	5.08	29.10	37.44	49.51	46.25	74.00	-27.75	peak	
3	2402.00	5.09	29.09	37.41	97.50	94.27	74.00	20.27	peak	



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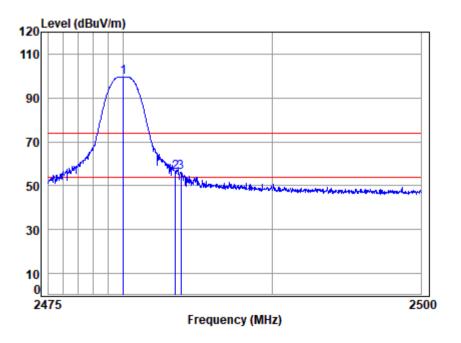


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 31 of 85

Test Mode: 11; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT 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	2480.00	5.16	28.90	37.22	102.80	99.64	74.00	25.64	peak	
2	2483.50	5.16	28.90	37.22	59.42	56.26	74.00	-17.74	peak	
3	2483.85	5.16	28.90	37.22	59.16	56.00	74.00	-18.00	peak	



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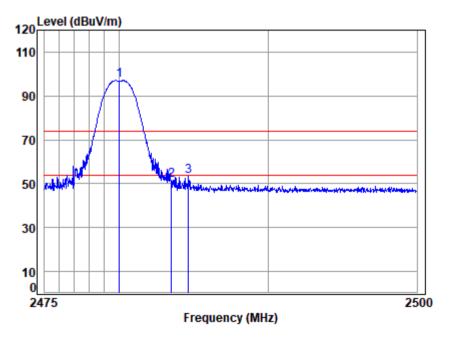


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 32 of 85

Test Mode: 11; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2480 Band edge

Note : BLE 1M

	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2480.00	5.16	28.90	37.22	100.17	97.01	74.00	23.01	peak
2	2483.50	5.16	28.90	37.22	54.64	51.48	74.00	-22.52	peak
3	2484.65	5.16	28.90	37.21	56.39	53.24	74.00	-20.76	peak



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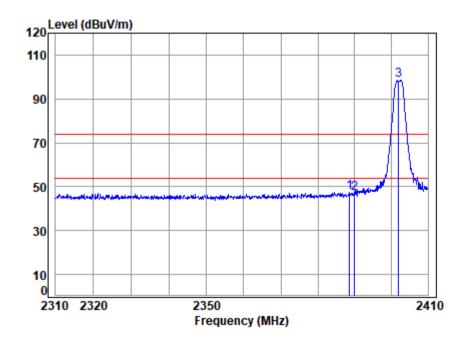


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 33 of 85

Test Mode: 12; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 00515AT/00516AT Mode : 2402 Band edge

Note : 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	2388.65	5.07	29.10	37.44	50.81	47.54	74.00	-26.46	peak	
2	2390.00	5.08	29.10	37.44	50.40	47.14	74.00	-26.86	peak	
3	2402.00	5.09	29.09	37.41	101.69	98.46	74.00	24.46	peak	



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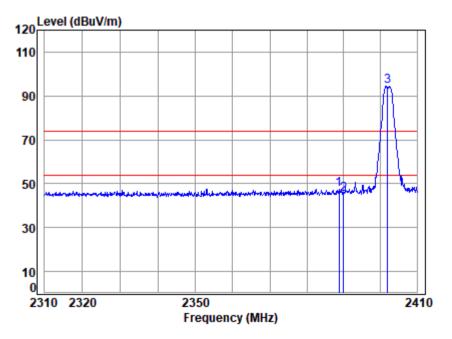


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 34 of 85

Test Mode: 12; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2402 Band edge

Note : 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	2388.75	5.07	29.10	37.44	50.79	47.52	74.00	-26.48	peak	
2	2390.00	5.08	29.10	37.44	48.50	45.24	74.00	-28.76	peak	
3	2402.00	5.09	29.09	37.41	97.54	94.31	74.00	20.31	peak	



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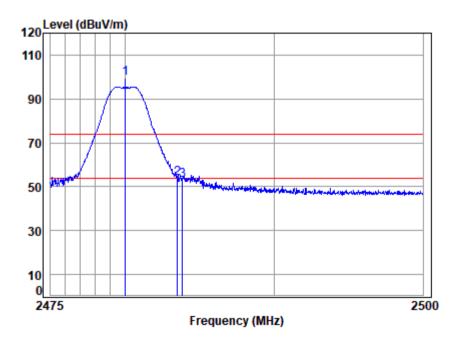


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 35 of 85

Test Mode: 12; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT Mode : 2480 Band edge

Note : 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	2480.00	5.16	28.90	37.22	102.66	99.50	74.00	25.50	peak	
2	2483.50								-	
3	2483.82									



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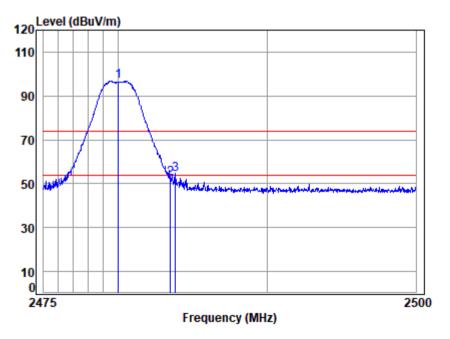


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 36 of 85

Test Mode: 12; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2480 Band edge

Note : BLE 2M

		211								
		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	2480.00	5.16	28.90	37.22	99.78	96.62	74.00	22.62	peak	
2	2483.50	5.16	28.90	37.22	55.51	52.35	74.00	-21.65	peak	
3	2483.82								•	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 37 of 85

### 7.8 Radiated Spurious Emissions Below 1GHz

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

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

#### Limit:

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

### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Atmospheric Pressure: 1020 mbar Humidity: 43.9 % RH

7.8.2 **Test Mode Description** 

1 oct mede Beschiption									
Pre-scan / Final test	Mode Code	Description							
Pre-scan	11	TX mode(1Mbps)(charging case)_Keep the EUT in continuously transmitting mode with GFSK modulation.							
Pre-scan	12	TX mode(2Mbps)(charging case)_Keep the EUT in continuously transmitting mode with GFSK modulation.							
Final test	13	Charge + TX mode(1Mbps)(charging case)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.							
Final test	14	Charge + TX mode(2Mbps)(charging case)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.							



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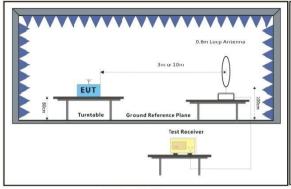
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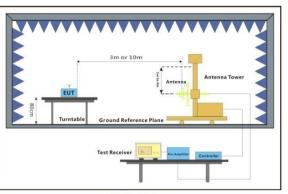


SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240200051505

> Page: 38 of 85

#### 7.8.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

#### 7.8.4 Measurement Procedure and Data

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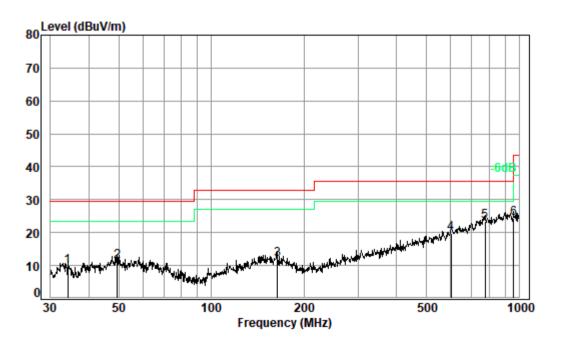


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 39 of 85

Test Mode: 13; Polarity: Horizontal



Condition: 10m HORIZONTAL Job No. : 00515AT/00516AT

Test Mode: 13

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	34.156	25.39	16.36	0.42	32.50	9.67	29.50	-19.83	QP
2	49.533	24.98	18.15	0.51	32.50	11.14	29.50	-18.36	QP
3	163.755	25.70	17.60	1.00	32.40	11.90	33.00	-21.10	QP
4	601.427	26.24	23.94	2.09	32.40	19.87	35.60	-15.73	QP
5	776.878	26.56	26.46	2.41	32.07	23.36	35.60	-12.24	QP
6 pp	958.794	25.06	27.96	2.65	31.28	24.39	35.60	-11.21	QP



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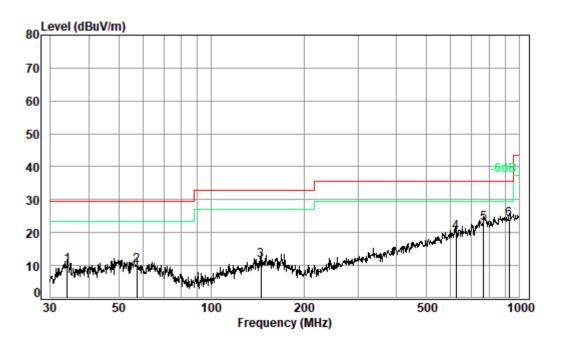


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 40 of 85

Test Mode: 13; Polarity: Vertical



Condition: 10m VERTICAL Job No. : 00515AT/00516AT

Test Mode: 13

	Freq		Ant Factor						Remark
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	34.037	25.70	16.34	0.42	32.50	9.96	29.50	-19.54	QP
2	57.392	24.45	17.68	0.54	32.48	10.19	29.50	-19.31	QP
3	144.842	25.55	17.50	0.93	32.40	11.58	33.00	-21.42	QP
4	625.078	25.61	24.59	2.13	32.37	19.96	35.60	-15.64	QP
5	766.057	26.10	26.40	2.39	32.10	22.79	35.60	-12.81	QP
6 pp	929.008	24.75	27.89	2.63	31.34	23.93	35.60	-11.67	OP



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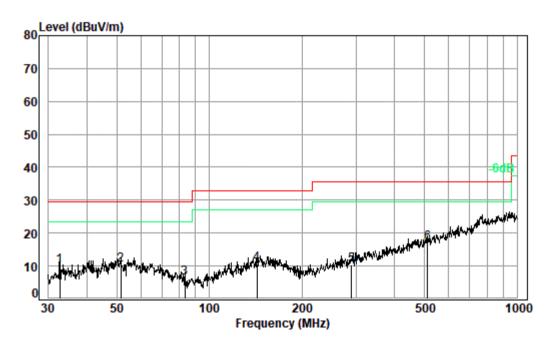


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 41 of 85

Test Mode: 14; Polarity: Horizontal



Condition: 10m HORIZONTAL Job No. : 00515AT/00516AT

Test Mode: 14

	Freq		Ant Factor						Remark
_	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	32.634	26.00	16.07	0.41	32.50	9.98	29.50	-19.52	QP
2	51.662	24.15	18.25	0.52	32.50	10.42	29.50	-19.08	QP
3	83.230	25.58	12.49	0.66	32.43	6.30	29.50	-23.20	QP
4	142.824	24.60	17.40	0.93	32.40	10.53	33.00	-22.47	QP
5	290.017	23.82	17.38	1.39	32.31	10.28	35.60	-25.32	QP
6 pp	511.835	25.43	22.10	1.85	32.31	17.07	35.60	-18.53	QP



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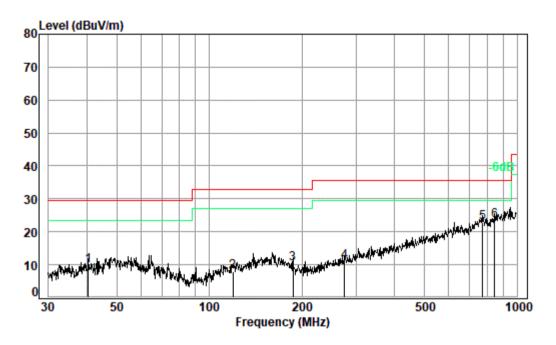


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 42 of 85

Test Mode: 14; Polarity: Vertical



Condition: 10m VERTICAL Job No. : 00515AT/00516AT

Test Mode: 14

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
_									
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	40.417	25.15	16.78	0.45	32.50	9.88	29.50	-19.62	QP
2	119.436	24.16	15.37	0.82	32.40	7.95	33.00	-25.05	QP
3	187.096	26.50	15.03	1.08	32.40	10.21	33.00	-22.79	QP
4	275.157	24.91	16.88	1.35	32.32	10.82	35.60	-24.78	QP
5	774.158	26.08	26.45	2.40	32.07	22.86	35.60	-12.74	QP
6 pp	845.088	25.92	26.80	2.53	31.72	23.53	35.60	-12.07	QP



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240200051505

> Page: 43 of 85

#### For Mode 13:

The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$ 

Note:

L<sub>3</sub>: Level @ 3m distance. Unit: uV/m; L<sub>10</sub>: Level @ 10m distance. Unit: uV/m;

D<sub>3</sub>: 3m distance. Unit: m D<sub>10</sub>: 10m distance. Unit: m

#### The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarizatio n
34.156	9.67	3.04	10.15	20.13	40.00	-19.87	Н
49.533	11.14	3.61	12.02	21.60	40.00	-18.40	Н
163.755	11.9	3.94	13.12	22.36	43.50	-21.14	Н
601.427	19.87	9.85	32.84	30.33	46.00	-15.67	Н
776.878	23.36	14.72	49.08	33.82	46.00	-12.18	Н
958.794	24.39	16.58	55.26	34.85	46.00	-11.15	Н
34.037	9.96	3.15	10.49	20.42	40.00	-19.58	V
57.392	10.19	3.23	10.77	20.65	40.00	-19.35	V
144.842	11.58	3.79	12.64	22.04	43.50	-21.46	V
625.078	19.96	9.95	33.18	30.42	46.00	-15.58	V
766.057	22.79	13.79	45.96	33.25	46.00	-12.75	V
929.008	23.93	15.72	52.41	34.39	46.00	-11.61	V



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240200051505

> Page: 44 of 85

#### For Mode 14:

The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$ 

Note:

L<sub>3</sub>: Level @ 3m distance. Unit: uV/m; L<sub>10</sub>: Level @ 10m distance. Unit: uV/m;

D<sub>3</sub>: 3m distance. Unit: m D<sub>10</sub>: 10m distance. Unit: m

#### The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarizatio n
32.634	9.98	3.16	10.52	20.44	40.00	-19.56	Н
51.662	10.42	3.32	11.06	20.88	40.00	-19.12	Н
83.23	6.3	2.07	6.88	16.76	40.00	-23.24	Н
142.824	10.53	3.36	11.20	20.99	43.50	-22.51	Н
290.017	10.28	3.27	10.89	20.74	46.00	-25.26	Н
511.835	17.07	7.14	23.79	27.53	46.00	-18.47	Н
40.417	9.88	3.12	10.40	20.34	40.00	-19.66	V
119.436	7.95	2.50	8.32	18.41	43.50	-25.09	V
187.096	10.21	3.24	10.80	20.67	43.50	-22.83	V
275.157	10.82	3.48	11.58	21.28	46.00	-24.72	V
774.158	22.86	13.90	46.33	33.32	46.00	-12.68	V
845.088	23.53	15.01	50.05	33.99	46.00	-12.01	V



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 45 of 85

### 7.9 Radiated Spurious Emissions Above 1GHz

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

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

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

### 7.9.1 E.U.T. Operation

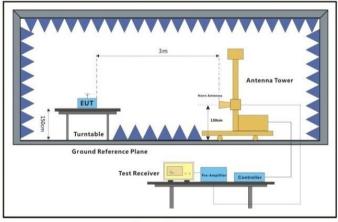
Operating Environment:

Temperature: 23.4 °C Humidity: 43.9 % RH Atmospheric Pressure: 1020 mbar

7.9.2 **Test Mode Description** 

		1001 111040 2000 111011
Pre-scan / Final test	Mode Code	Description
Final test	11	TX mode(1Mbps)(charging case)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	12	TX mode(2Mbps)(charging case)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	13	Charge + TX mode(1Mbps)(charging case)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Final test	14	Charge + TX mode(2Mbps)(charging case)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

### 7.9.3 Test Setup Diagram



Above 1GHz



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240200051505

> 46 of 85 Page:

#### 7.9.4 Measurement Procedure and Data

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

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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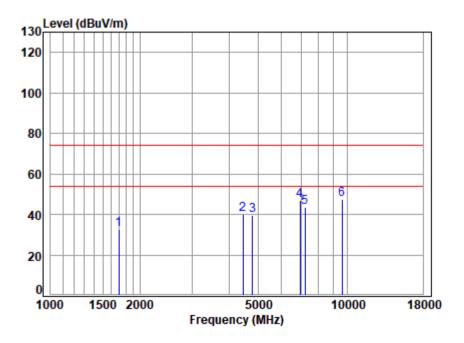


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 47 of 85

Test Mode: 11; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT Mode : 2402 TX RSE

Note : BLE 1M

	Грод			Preamp					Domanic
	Freq	LOSS	ractor	Factor	rever	rever	Line	LIMIT	Kelliark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.04	4.33	26.22	38.42	40.65	32.78	74.00	-41.22	peak
2	4456.32	7.09	34.12	35.76	34.70	40.15	74.00	-33.85	peak
3	4804.00	7.31	34.32	35.52	33.63	39.74	74.00	-34.26	peak
4	6934.78	8.87	35.74	35.53	37.65	46.73	74.00	-27.27	peak
5	7206.00	9.18	35.70	35.79	34.44	43.53	74.00	-30.47	peak
6	9608.00	12.36	37.42	37.46	35.18	47.50	74.00	-26.50	peak



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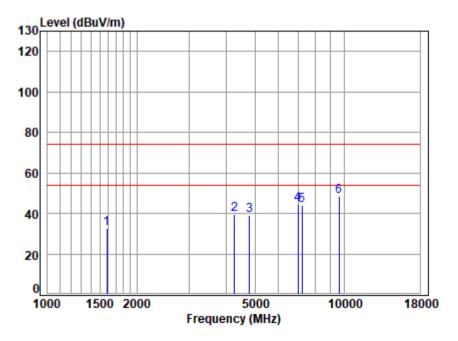


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 48 of 85

Test Mode: 11; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2402 TX RSE Note : BLE 1M

	-			Preamp			Limit		D 1
	Freq	LOSS	Factor	Factor	revel	revel	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1587.98	4.18	26.85	38.40	40.18	32.81	74.00	-41.19	peak
2	4267.24	6.97	33.87	35.89	34.37	39.32	74.00	-34.68	peak
3	4804.00	7.31	34.32	35.52	33.14	39.25	74.00	-34.75	peak
4	6974.98	8.90	35.75	35.55	35.44	44.54	74.00	-29.46	peak
5	7206.00	9.18	35.70	35.79	35.08	44.17	74.00	-29.83	peak
6	9608.00	12.36	37.42	37.46	36.02	48.34	74.00	-25.66	peak



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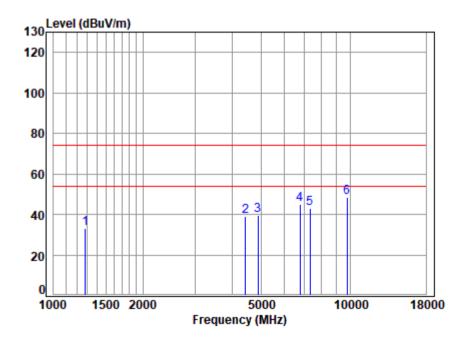


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 49 of 85

Test Mode: 11; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT Mode : 2440 TX RSE

Note : BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						dD: \// /==	dD: 3//		
	MHz	dB	ab/m	dB	abuv	abuv/m	abuv/m	dB	
1	1282.19	3.72	24.91	38.35	42.96	33.24	74.00	-40.76	peak
2	4430.63	7.08	34.43	35.77	33.13	38.87	74.00	-35.13	peak
3	4880.00	7.36	34.62	35.47	33.10	39.61	74.00	-34.39	peak
4	6776.27	8.76	35.25	35.43	36.59	45.17	74.00	-28.83	peak
5	7320.00	9.32	35.70	35.90	34.12	43.24	74.00	-30.76	peak
6	9760.00	12.47	37.38	37.43	35.93	48.35	74.00	-25.65	peak



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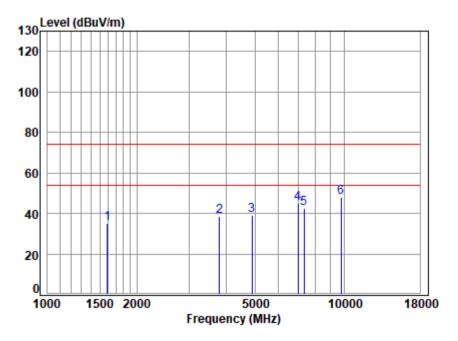


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 50 of 85

Test Mode: 11; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2440 TX RSE Note : BLE 1M

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.57	4.19	26.83	38.40	42.28	34.90	74.00	-39.10	peak
2	3801.33	6.57	32.42	36.11	35.67	38.55	74.00	-35.45	peak
3	4880.00	7.36	34.62	35.47	32.73	39.24	74.00	-34.76	peak
4	6974.98	8.90	35.75	35.55	35.68	44.78	74.00	-29.22	peak
5	7320.00	9.32	35.70	35.90	33.31	42.43	74.00	-31.57	peak
6	9760.00	12.47	37.38	37.43	35.53	47.95	74.00	-26.05	peak



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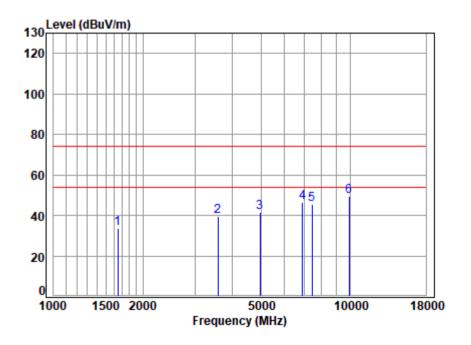


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 51 of 85

Test Mode: 11; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT Mode : 2480 TX RSE

Note : BLE 1M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1648.78	4.26	26.31	38.41	41.23	33.39	74.00	-40.61	peak
2	3587.82	6.33	31.98	36.12	37.37	39.56	74.00	-34.44	peak
3	4960.00	7.41	34.56	35.42	35.15	41.70	74.00	-32.30	peak
4	6914.76	8.86	35.66	35.52	37.26	46.26	74.00	-27.74	peak
5	7440.00	9.46	35.96	36.02	36.18	45.58	74.00	-28.42	peak
6	9920.00	12.58	37.30	37.39	36.92	49.41	74.00	-24.59	peak



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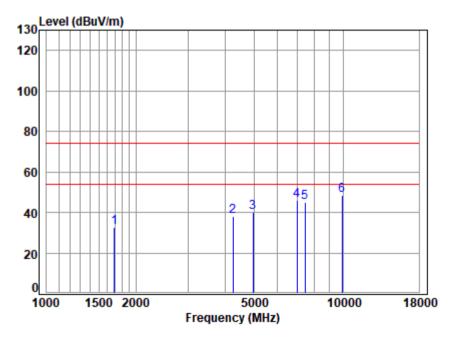


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 52 of 85

Test Mode: 11; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2480 TX RSE Note : BLE 1M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1692.23	4.32	26.22	38.41	40.67	32.80	74.00	-41.20	peak
2	4254.92	6.96	33.82	35.90	33.08	37.96	74.00	-36.04	peak
3	4960.00	7.41	34.56	35.42	33.27	39.82	74.00	-34.18	peak
4	6974.98	8.90	35.75	35.55	36.90	46.00	74.00	-28.00	peak
5	7440.00	9.46	35.96	36.02	35.65	45.05	74.00	-28.95	peak
6	9920.00	12.58	37.30	37.39	36.11	48.60	74.00	-25.40	peak



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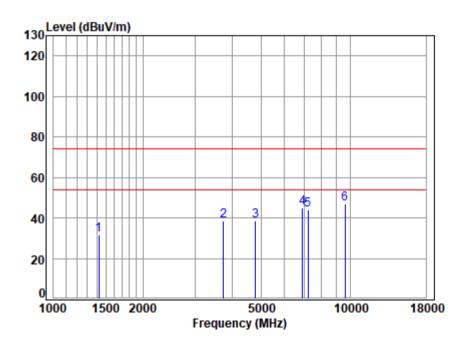


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 53 of 85

Test Mode: 12; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 00515AT/00516AT Mode : 2402 TX RSE

Note : 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	1422.80	3.95	24.97	38.38	41.03	31.57	74.00	-42.43	peak	
2	3746.79	6.51	32.91	36.11	35.25	38.56	74.00	-35.44	peak	
3	4804.00	7.31	34.32	35.52	32.57	38.68	74.00	-35.32	peak	
4	6894.81	8.85	35.59	35.50	35.94	44.88	74.00	-29.12	peak	
5	7206.00	9.18	35.70	35.79	34.74	43.83	74.00	-30.17	peak	
6	9608.00	12.36	37.42	37.46	34.77	47.09	74.00	-26.91	peak	



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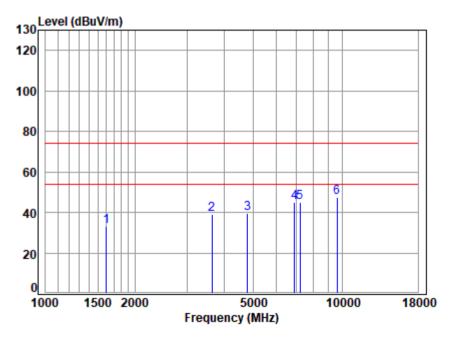


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 54 of 85

Test Mode: 12; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2402 TX RSE Note : 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	1606.44	4.21	26.73	38.40	40.75	33.29	74.00	-40.71	peak
2	3640.05	6.39	32.58	36.11	36.11	38.97	74.00	-35.03	peak
3	4804.00	7.31	34.32	35.52	33.30	39.41	74.00	-34.59	peak
4	6914.76	8.86	35.66	35.52	36.06	45.06	74.00	-28.94	peak
5	7206.00	9.18	35.70	35.79	35.77	44.86	74.00	-29.14	peak
6	9608.00								•
									•



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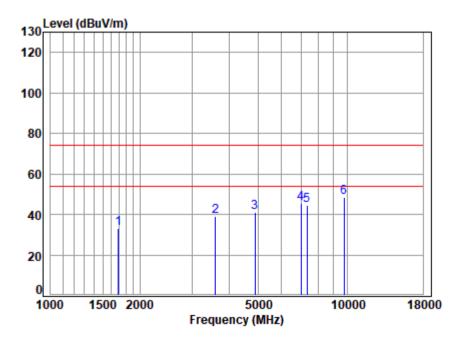


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 55 of 85

Test Mode: 12; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT Mode : 2440 TX RSE

Note : BLE 2M

	Frea			Preamp Factor					Romank
	rreq	LUSS	ractor	ractor	rever	rever	LINE	LIMIC	Kelliai K
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1692.23	4.32	26.22	38.41	41.11	33.24	74.00	-40.76	peak
2	3598.20	6.34	32.08	36.11	36.75	39.06	74.00	-34.94	peak
3	4880.00	7.36	34.62	35.47	34.48	40.99	74.00	-33.01	peak
4	6974.98	8.90	35.75	35.55	36.16	45.26	74.00	-28.74	peak
5	7320.00	9.32	35.70	35.90	35.53	44.65	74.00	-29.35	peak
6	9760.00	12.47	37.38	37.43	36.01	48.43	74.00	-25.57	peak



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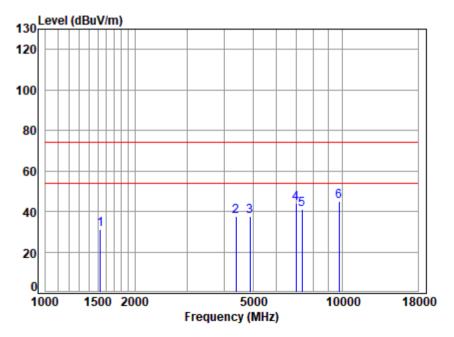


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 56 of 85

Test Mode: 12; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2440 TX RSE Note : BLE 2M

			_	_	_				
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dR/m	dB	dRuV	dRuV/m	dRuV/m	dB	
	1112	ub	ub/ III	ub	ubuv	ubuv/iii	ubuv/III	ub	
_									
1	1529.41	4.10	26.92	38.39	38.29	30.92	74.00	-43.08	peak
2	4392.38	7.05	34.74	35.80	31.82	37.81	74.00	-36.19	peak
3	4880.00	7.36	34.62	35.47	31.24	37.75	74.00	-36.25	peak
4	6995.17	8.92	35.71	35.57	34.71	43.77	74.00	-30.23	peak
5	7320.00	9.32	35.70	35.90	32.12	41.24	74.00	-32.76	peak
6	9760.00	12.47	37.38	37.43	32.58	45.00	74.00	-29.00	peak



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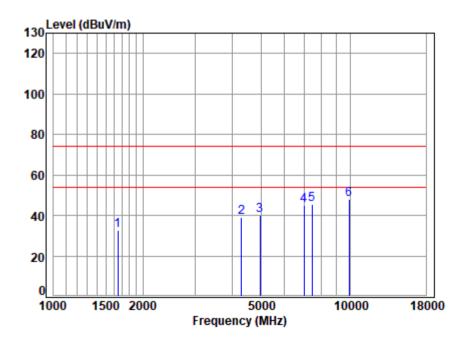


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 57 of 85

Test Mode: 12; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 00515AT/00516AT Mode : 2480 TX RSE

Note : BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
							ID 1//		
	MHz	dB	aB/m	dB	aBuv	dBuV/m	aBuv/m	dB	
1	1648.78	4.26	26.31	38.41	40.63	32.79	74.00	-41.21	peak
2	4304.40	6.99	34.04	35.87	33.92	39.08	74.00	-34.92	peak
3	4960.00	7.41	34.56	35.42	33.55	40.10	74.00	-33.90	peak
4	6995.17	8.92	35.71	35.57	35.93	44.99	74.00	-29.01	peak
5	7440.00	9.46	35.96	36.02	35.93	45.33	74.00	-28.67	peak
6	9920.00	12.58	37.30	37.39	35.38	47.87	74.00	-26.13	peak



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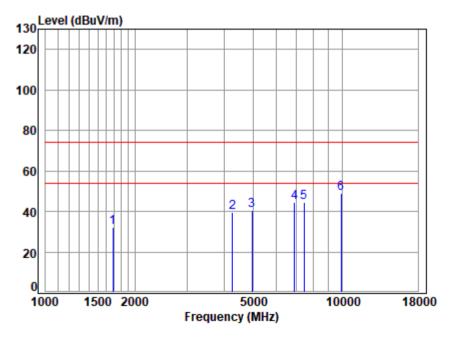


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 58 of 85

Test Mode: 12; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 00515AT/00516AT Mode : 2480 TX RSE Note : BLE 2M

	Freq		Ant Factor	Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1687.35	4.31	26.23	38.41	40.17	32.30	74.00	-41.70	peak
2	4267.24	6.97	33.87	35.89	34.58	39.53	74.00	-34.47	peak
3	4960.00	7.41	34.56	35.42	33.79	40.34	74.00	-33.66	peak
4	6914.76	8.86	35.66	35.52	35.63	44.63	74.00	-29.37	peak
5	7440.00	9.46	35.96	36.02	35.31	44.71	74.00	-29.29	peak
6	9920.00	12.58	37.30	37.39	36.20	48.69	74.00	-25.31	peak



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> Page: 59 of 85

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

Refer to Setup Photo for SZCR2402000515AT

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

Refer to External and Internal Photos for SZCR2402000515AT



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> Page: 60 of 85

## 10 Appendix

For Charging case:

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	0.410	0.625	65.60	1.83	0.02						
1M	SISO	2440	0.410	0.625	65.60	1.83	0.00						
		2480	0.410	0.625	65.60	1.83	0.01						
		2402	0.225	0.625	36.00	4.44	0.03						
2M	SISO	2440	0.225	0.625	36.00	4.44	0.02						
		2480	0.226	0.625	36.16	4.42	0.00						



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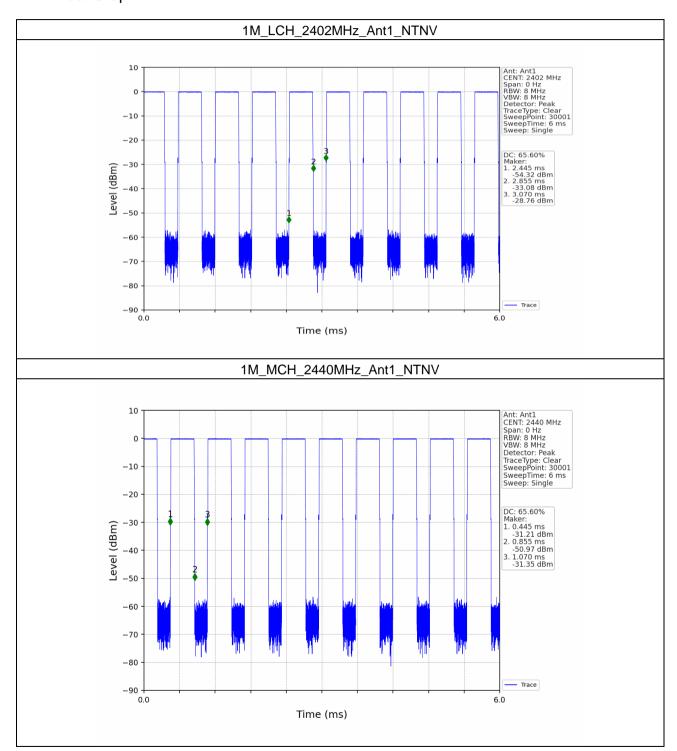


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Report No.: SZCR240200051505

Page: 61 of 85

### 1.1.2 Test Graph





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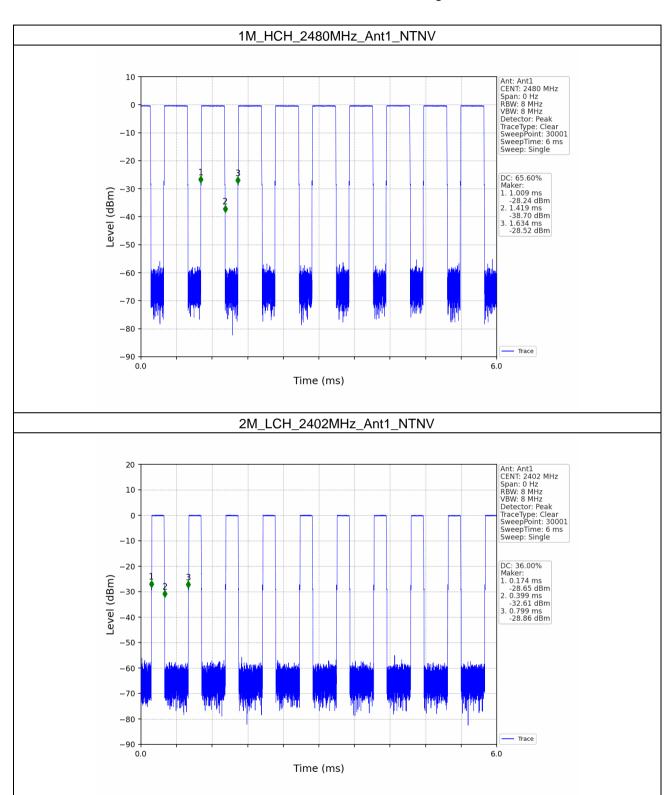
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Page: 62 of 85





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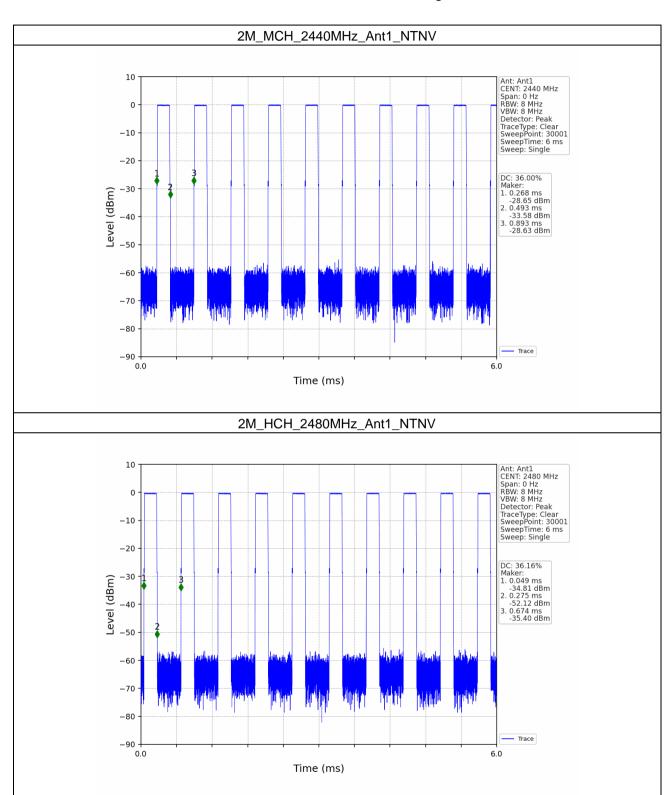
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Report No.: SZCR240200051505

Page: 63 of 85





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> Page: 64 of 85

### 2. Bandwidth

### 2.1 OBW

### 2.1.1 Test Result

Mode	TX	Frequency	ANIT	99% Occupied E	Bandwidth (MHz)	Verdict
Туре		(MHz)	ANT	Result	Limit	verdict
		2402	1	1.049	/	Pass
1M	SISO	2440	1	1.049	/	Pass
		2480	1	1.047	/	Pass
		2402	1	2.073	/	Pass
2M	SISO	2440	1	2.073	/	Pass
		2480	1	2.072	/	Pass



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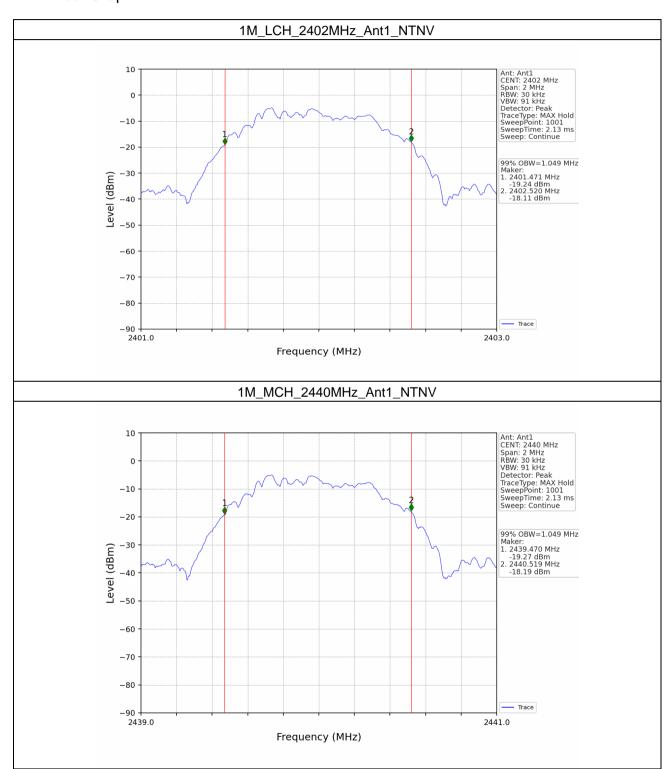


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 65 of 85

### 2.1.2 Test Graph





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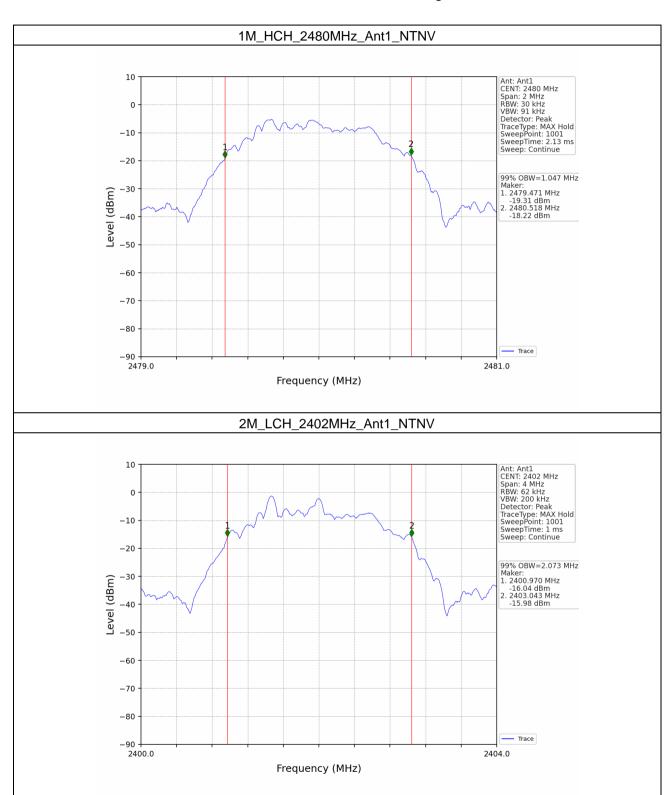
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 66 of 85





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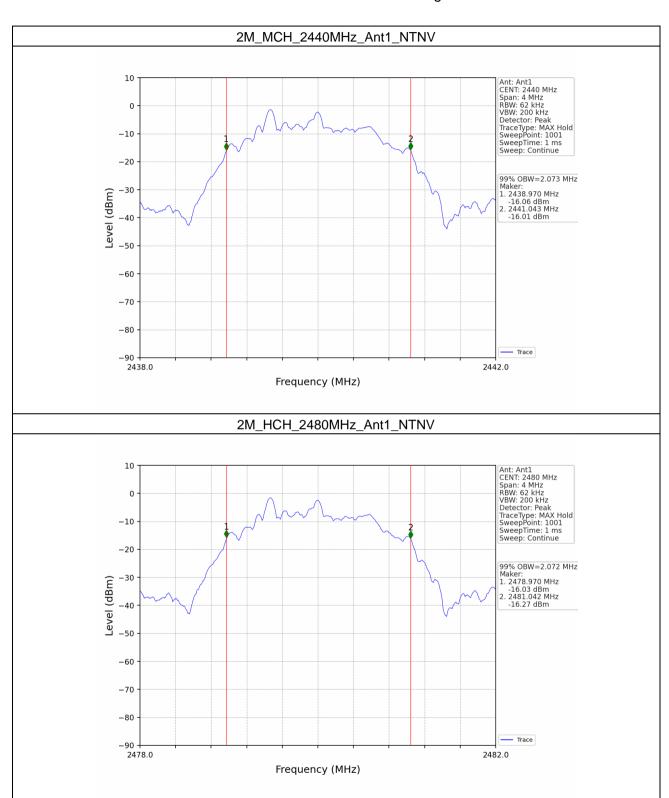
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Report No.: SZCR240200051505

Page: 67 of 85





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240200051505

> Page: 68 of 85

### 2.2 6dB BW

#### 2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Mandiat
				Result	Limit	Verdict
1M	SISO	2402	1	0.727	>=0.5	Pass
		2440	1	0.715	>=0.5	Pass
		2480	1	0.723	>=0.5	Pass
2M	SISO	2402	1	1.214	>=0.5	Pass
		2440	1	1.264	>=0.5	Pass
		2480	1	1.213	>=0.5	Pass



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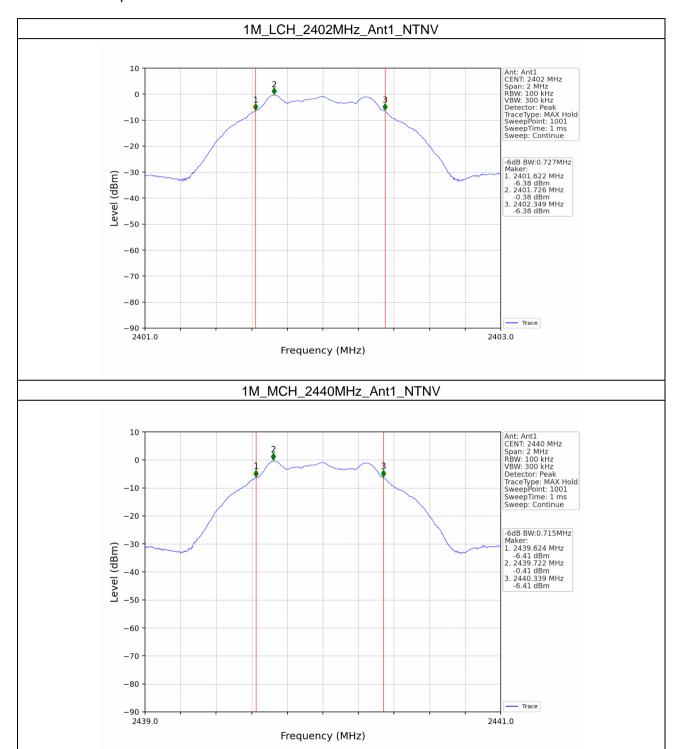


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 69 of 85

### 2.2.2 Test Graph





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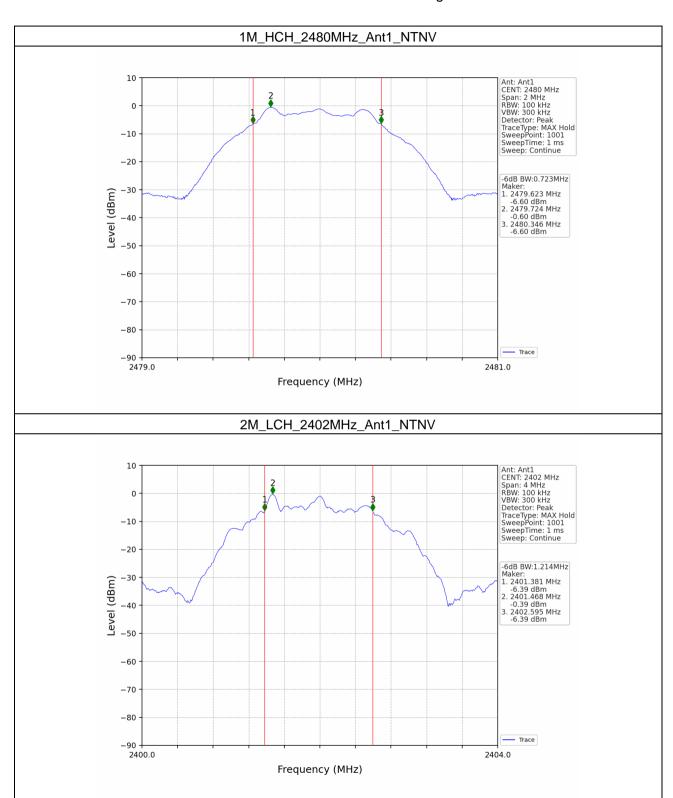
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Report No.: SZCR240200051505

Page: 70 of 85





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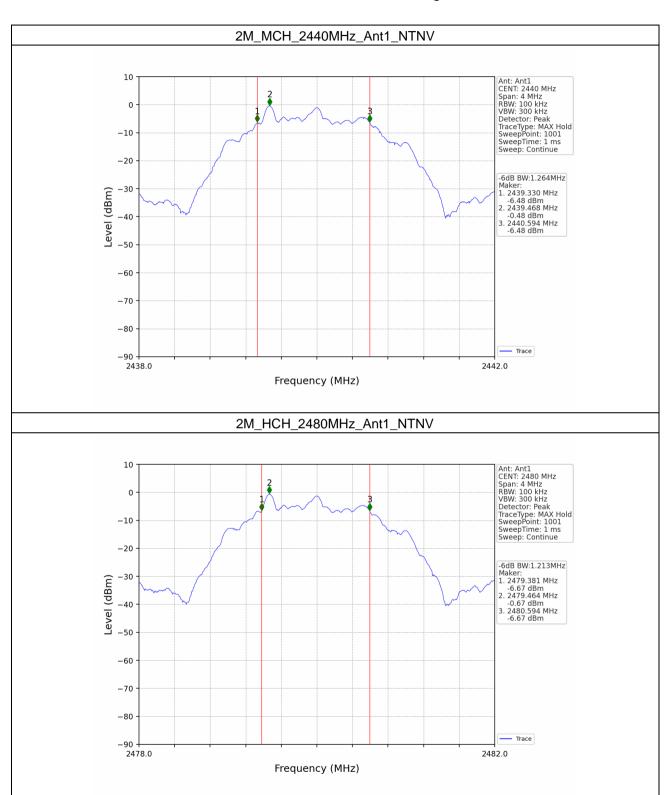
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 71 of 85





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240200051505

> Page: 72 of 85

### 3. Maximum Conducted Output Power

### 3.1 Power

### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conduc	Manaliat	
			ANT1	Limit	Verdict
1M	SISO	2402	-0.12	<=30	Pass
		2440	-0.19	<=30	Pass
		2480	-0.37	<=30	Pass
2M	SISO	2402	-0.08	<=30	Pass
		2440	-0.15	<=30	Pass
		2480	-0.36	<=30	Pass

### 4. Maximum Power Spectral Density

### 4.1 PSD

### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Mandiat
			ANT1	Limit	Verdict
1M	SISO	2402	-15.66	<=8	Pass
		2440	-15.76	<=8	Pass
		2480	-15.96	<=8	Pass
2M	SISO	2402	-19.29	<=8	Pass
		2440	-19.39	<=8	Pass
		2480	-19.50	<=8	Pass



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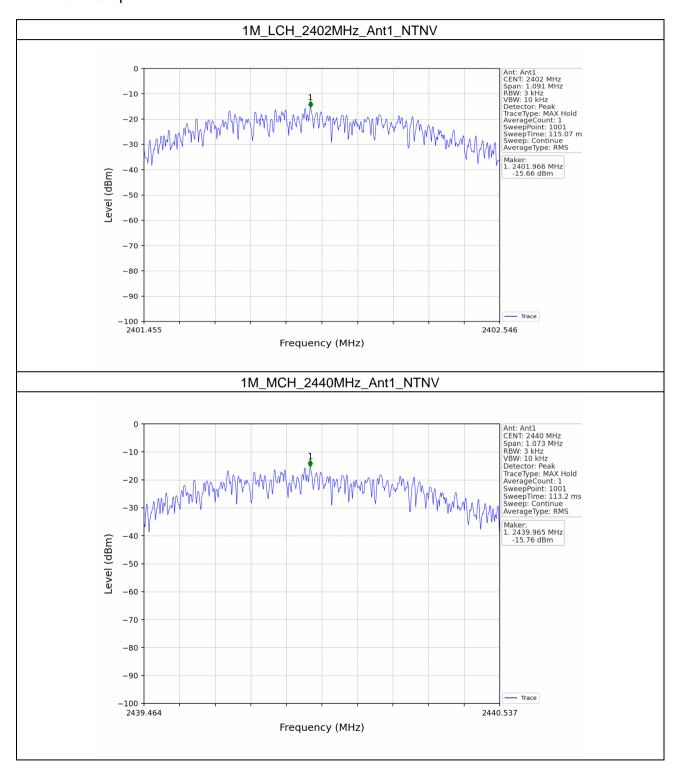


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Report No.: SZCR240200051505

Page: 73 of 85

#### 4.1.2 Test Graph





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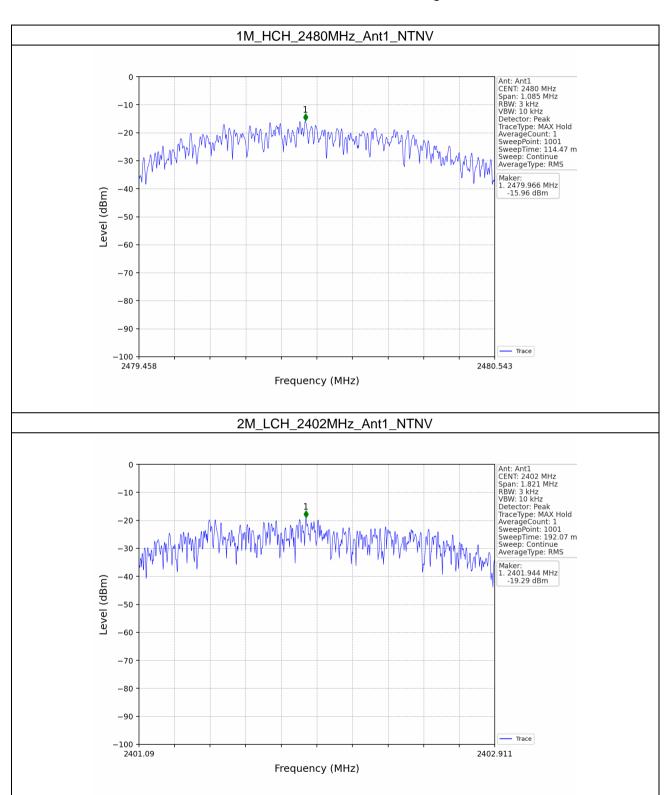
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Page: 74 of 85





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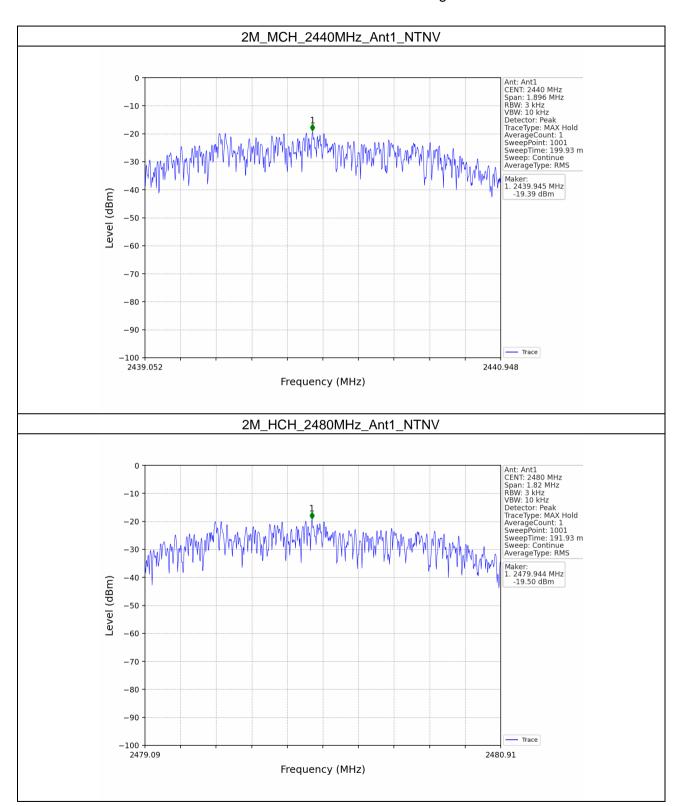
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> Page: 76 of 85

#### 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)	
1M	SISO	2402	1	-0.35	
		2440	1	-0.43	
		2480	1	-0.59	
2M	SISO	2402	1	-0.40	
		2440	1	-0.47	
		2480	1	-0.67	



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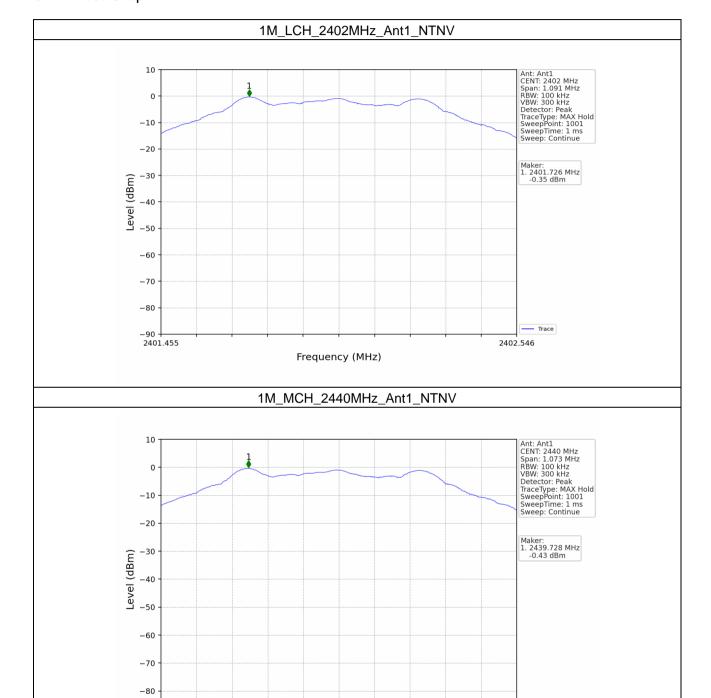


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Report No.: SZCR240200051505

Page: 77 of 85

#### 5.1.2 Test Graph





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2439.464

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Frequency (MHz)

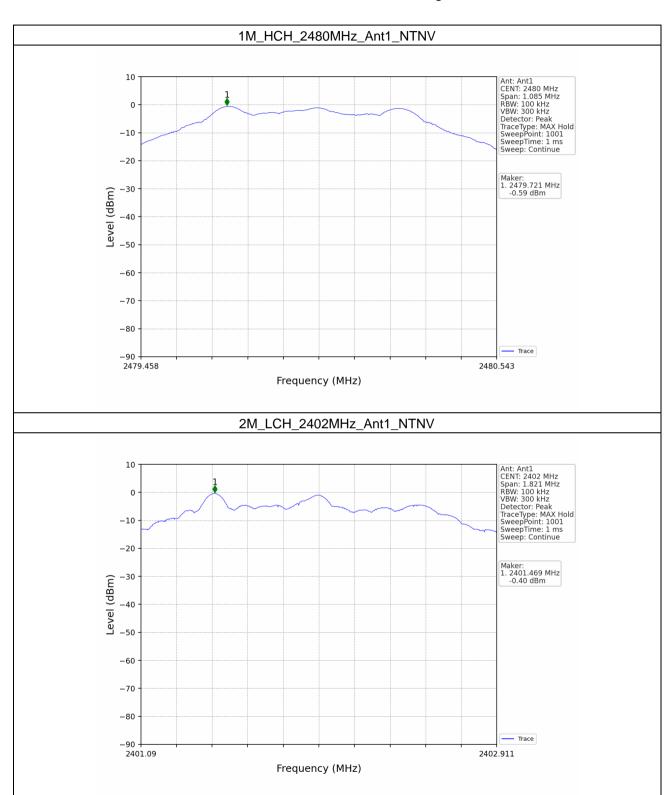
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Report No.: SZCR240200051505

Page: 78 of 85





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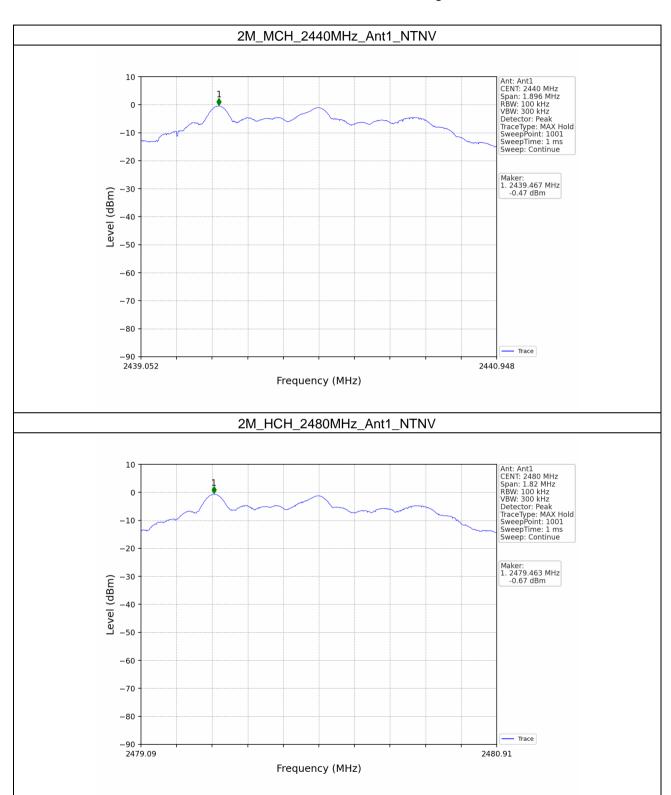
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Report No.: SZCR240200051505

Page: 79 of 85





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240200051505

> Page: 80 of 85

#### 5.2 CSE

#### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-0.35	-20.35	Pass
		2440	1	-0.35	-20.35	Pass
		2480	1	-0.35	-20.35	Pass
2M	SISO	2402	1	-0.40	-20.40	Pass
		2440	1	-0.40	-20.40	Pass
		2480	1	-0.40	-20.40	Pass



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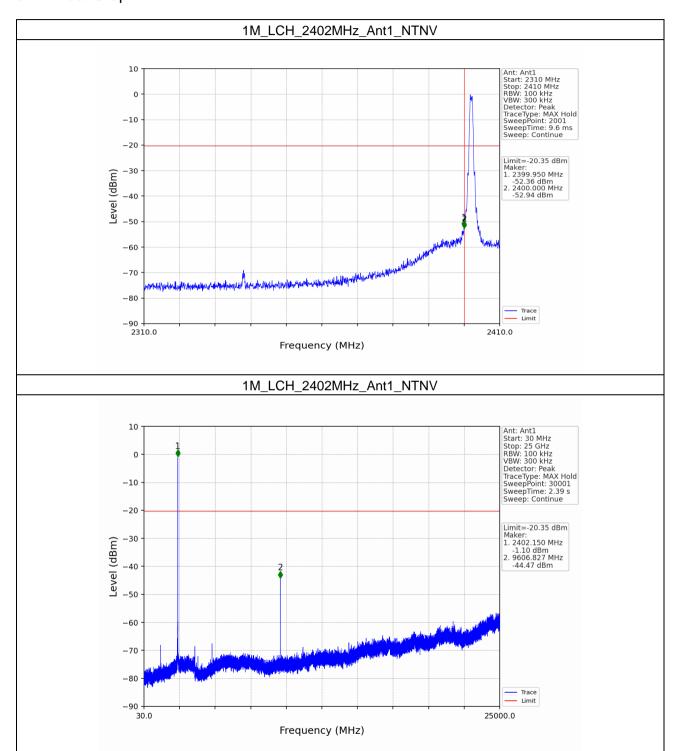


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 81 of 85

#### 5.2.2 Test Graph





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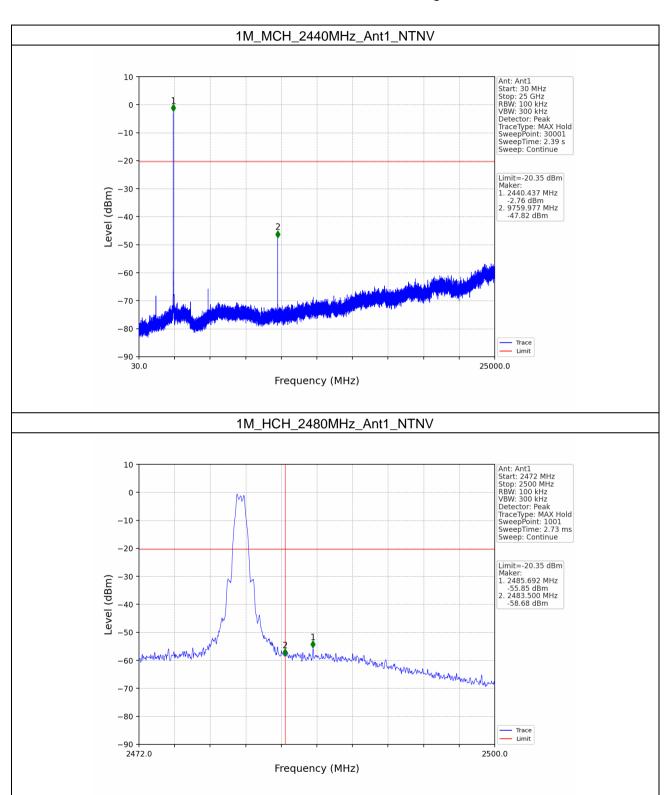
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 82 of 85





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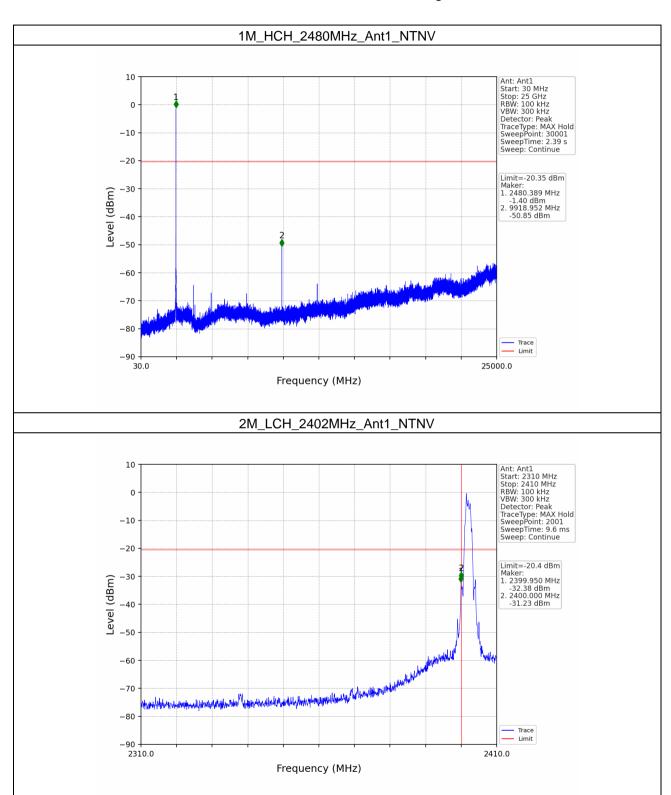
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 83 of 85





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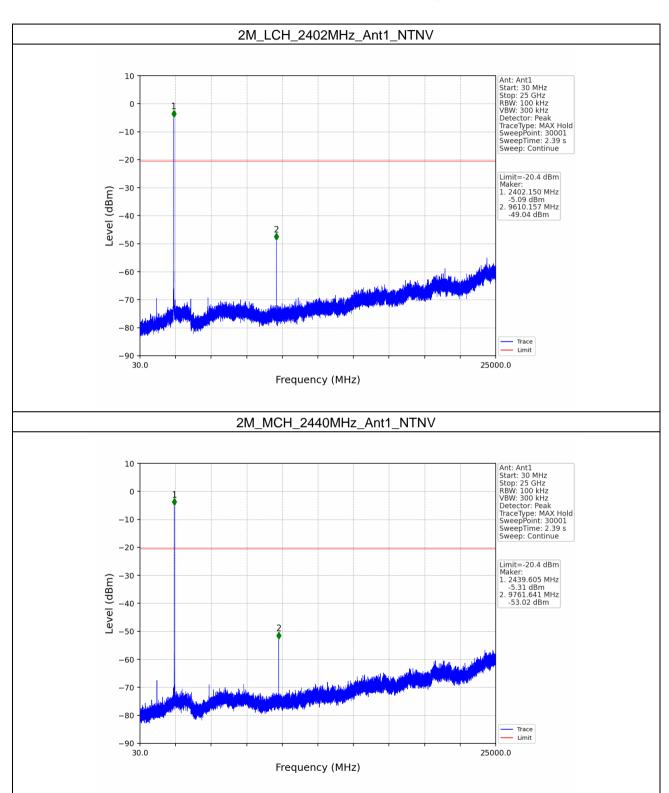
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 84 of 85





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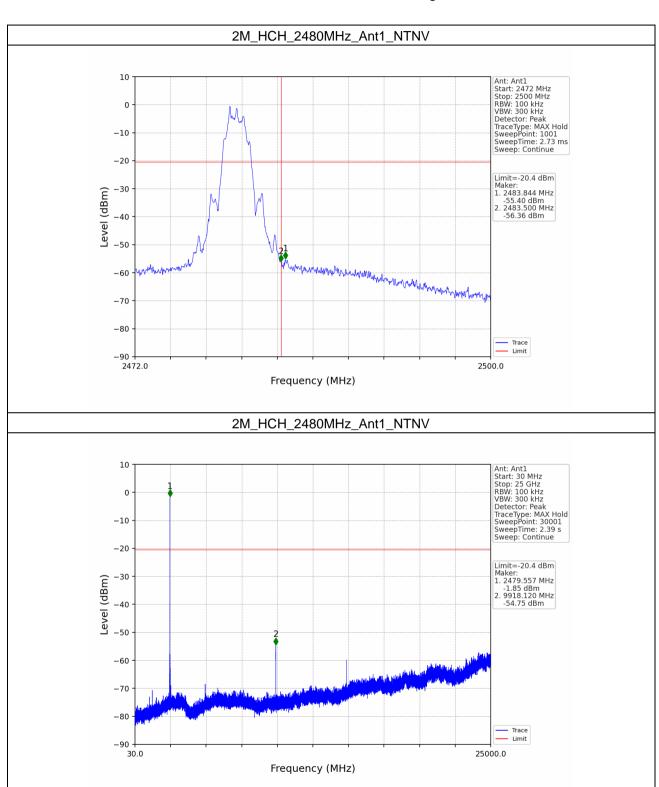
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200051505

Page: 85 of 85



#### - End of the Report



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