

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900348803

> Page: 1 of 118

TEST REPORT

Application No.: SZCR2409003488AT Applicant: Creative Labs Pte. Ltd.

Address of Applicant: 31 International Business Park, #03-01, Singapore 609921 Singapore

Creative Labs Pte. Ltd. Manufacturer:

Address of Manufacturer: 31 International Business Park, #03-01, Singapore 609921 Singapore

Equipment Under Test (EUT):

EUT Name: Creative Aurvana Ace SXFI

Model No.: EF1250 Trade Mark: **CREATIVE** FCC ID: 2AJIV-EF1250

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

Date of Receipt: 2024-09-10

2024-09-11 to 2024-11-04 **Date of Test:**

2024-11-05 Date of Issue:

Test Result: Pass*

Ceny. Ku Keny Xu

EMC Laboratory Manager



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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 2 of 118

	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2024-11-05		Original			

Authorized for issue by:		
	Bir Chen	
	Bill Chen/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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> Page: 3 of 118

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	
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	
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	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	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 4 of 118

3 **Contents**

_		Page
1	1 Cover Page	1
2	2 Test Summary	3
3	3 Contents	4
J		
4	4 General Information	6
	4.1 Details of E.U.T.	_
	4.2 Description of Support Units	
	4.3 Measurement Uncertainty	
	4.4 Test Location	
	4.5 Test Facility	
	4.6 Deviation from Standards	
	4.7 Abnormalities from Standard Conditions	
5	5 Equipment List	9
_		
6	Radio Spectrum Technical Requirement	11
	6.1 Antenna Requirement	11
	6.1.1 Test Requirement:	
	6.1.2 Conclusion	11
7	7 Radio Spectrum Matter Test Results	12
	7.1 Radiated Emissions which fall in the restricted bands	
	7.1.1 E.U.T. Operation	
	7.1.2 Test Mode Description	
	7.1.3 Test Setup Diagram	
	7.1.4 Measurement Procedure and Data	
	7.2 Radiated Spurious Emissions Below 1GHz	
	7.2.1 E.U.T. Operation	
	7.2.2 Test Mode Description	30
	7.2.3 Test Setup Diagram	31
	7.2.4 Measurement Procedure and Data	
	7.3 Radiated Spurious Emissions Above 1GHz	
	7.3.1 E.U.T. Operation	
	7.3.2 Test Mode Description	
	7.3.3 Test Setup Diagram	
	7.3.4 Measurement Procedure and Data	
	7.4 Conducted Peak Output Power	
	7.4.1 E.U.T. Operation	
	7.4.2 Test Mode Description	
	7.4.3 Test Setup Diagram	
	7.4.4 Measurement Procedure and Data	
	7.5 Minimum 6dB Bandwidth	
	7.5.1 E.U.T. Operation	64



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 5 of 118

	7.5.2	Test Mode Description	64
	7.5.3	Test Setup Diagram	64
	7.5.4	Measurement Procedure and Data	64
7	.6 F	Power Spectrum Density	65
	7.6.1	E.U.T. Operation	65
	7.6.2	Test Mode Description	65
	7.6.3	Test Setup Diagram	65
	7.6.4	Measurement Procedure and Data	
7	.7 C	Conducted Band Edges Measurement	66
	7.7.1	E.U.T. Operation	66
	7.7.2	Test Mode Description	66
	7.7.3	Test Setup Diagram	67
	7.7.4	Measurement Procedure and Data	67
7	'.8 C	Conducted Spurious Emissions	68
	7.8.1	E.U.T. Operation	68
	7.8.2	Test Mode Description	68
	7.8.3	Test Setup Diagram	69
	7.8.4	Measurement Procedure and Data	69
8	Test S	Setup Photo	70
9	EUT C	Constructional Details (EUT Photos)	70
10	Apper	ndix	71



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900348803

> Page: 6 of 118

General Information

Details of E.U.T. 4.1

Power supply:	Left earbuds: Rechargeable Li-ion Cell 3.7V 60mAh (Charge by travel case) Right earbuds: Rechargeable Li-ion Cell 3.7V 60mAh(Charge by travel case)
	travel case with backup battery: Lithium-ion Polymer Battery
	3.7V 500mAh(DC 5V Charged by Type-C port)
Cable(s):	Type-C cable: 30cm unshielded
RF cable(Provided by the customer):	0.4dB
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.3 Dual mode
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	Ceramic Antenna
Antenna Gain:	Left earbud: 1.44dBi; Right earbud: 2.03dBi

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.			
		-	-			
The EUT has been tested as an independent unit.						

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	\pm 6.0dB for 3m; \pm 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)
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



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900348803

> Page: 7 of 118

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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> Page: 8 of 118

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.: SZCR240900348803

Page: 9 of 118

5 **Equipment List**

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	2024-05-11	2027-05-10	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22	
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05	
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14	

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 10 of 118

Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26

General used equipment										
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date					
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23					
Humidity/ Temperature Indicator			SEM002-33	2024-07-24	2025-07-23					
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17					



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> Page: 11 of 118

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 Left earbud: 1.44dBi; Right earbud: 2.03dBi.

Antenna location: Refer to internal photo.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 12 of 118

Radio Spectrum Matter Test Results 7

7.1 Radiated Emissions which fall in the restricted bands

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

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

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.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C Humidity: 65.2 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

	T	· ·
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	09	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	10	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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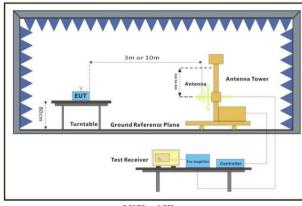


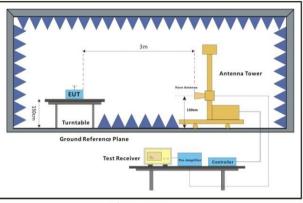
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 13 of 118

7.1.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.1.4 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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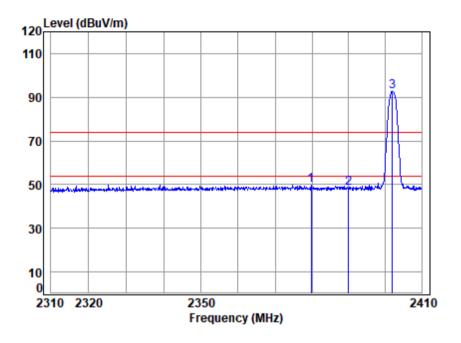


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 14 of 118

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



Site : chamber

Condition: 3m HORIZONTAL : 03488AT\03490AT Mode : 2402 Band edge

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2379.755	15.80	29.10	37.46	42.24	49.68	74.00	-24.32	peak
2	2390.000	15.81	29.10	37.44	40.91	48.38	74.00	-25.62	peak
3 p	2402.000	15.82	29.09	37.41	85.14	92.64	74.00	18.64	peak



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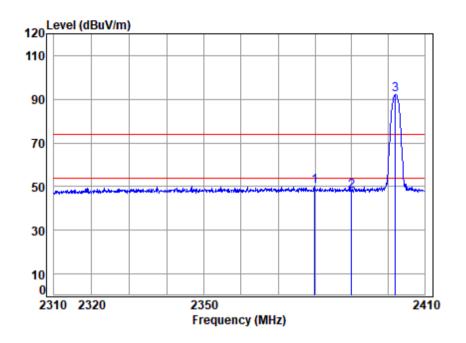


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 15 of 118

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



Site : chamber

Condition: 3m VERTICAL

: 03488AT\03490AT Mode : 2402 Band edge

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2379.856	15.80	29.10	37.46	42.66	50.10	74.00	-23.90	peak
2	2390.000	15.81	29.10	37.44	40.65	48.12	74.00	-25.88	peak
3	p 2402.000	15.82	29.09	37.41	84.56	92.06	74.00	18.06	peak



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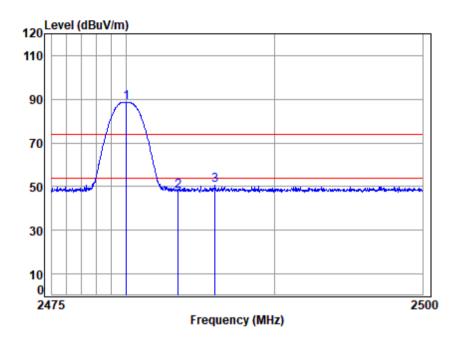


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 16 of 118

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



Site : chamber

Condition: 3m HORIZONTAL : 03488AT\03490AT Mode : 2480 Band edge

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
_	2480.000								•
2	2483.500	15.86	28.90	37.22	40.46	48.00	74.00	-26.00	peak
3	2485.969	15.86	28.90	37.21	42.88	50.43	74.00	-23.57	peak



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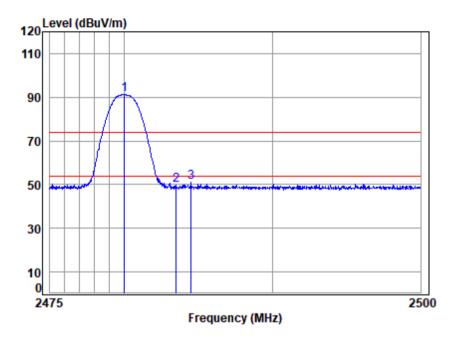


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 17 of 118

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



Site : chamber

Condition: 3m VERTICAL

: 03488AT\03490AT Mode : 2480 Band edge

Note : BLE

	Freq			Preamp Factor					
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2480.000	15.86	28.90	37.22	83.64	91.18	74.00	17.18	peak
2	2483.500	15.86	28.90	37.22	42.12	49.66	74.00	-24.34	peak
3	2484.495	15.86	28.90	37.21	43.41	50.96	74.00	-23.04	peak



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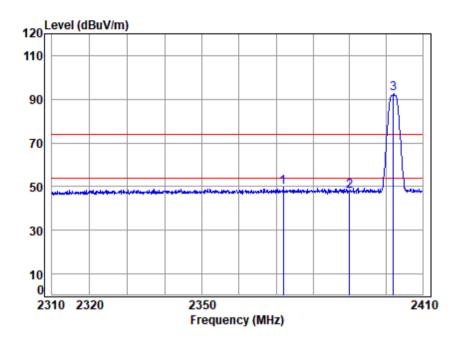


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 18 of 118

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



Site : chamber

Condition: 3m HORIZONTAL : 03488AT\03490AT Mode : 2402 Band edge

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2371.902	15.80	29.10	37.48	42.21	49.63	74.00	-24.37	peak
2	2390.000	15.81	29.10	37.44	40.56	48.03	74.00	-25.97	peak
3	p 2402.000	15.82	29.09	37.41	85.02	92.52	74.00	18.52	peak



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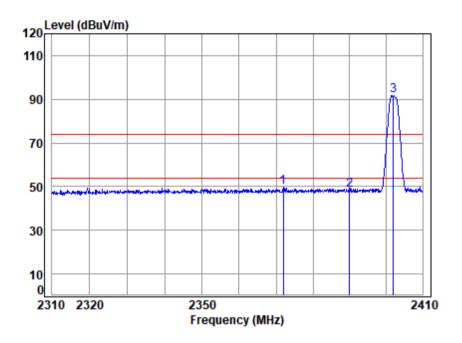


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 19 of 118

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



Site : chamber

Condition: 3m VERTICAL

: 03488AT\03490AT Mode : 2402 Band edge

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2371.902	15.80	29.10	37.48	42.51	49.93	74.00	-24.07	peak
2	2390.000	15.81	29.10	37.44	40.84	48.31	74.00	-25.69	peak
3	p 2402.000	15.82	29.09	37.41	84.18	91.68	74.00	17.68	peak



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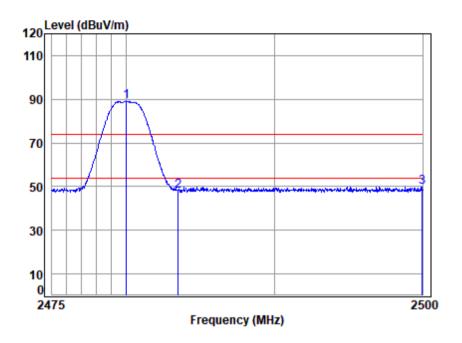


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 20 of 118

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



Site : chamber

Condition: 3m HORIZONTAL : 03488AT\03490AT Mode : 2480 Band edge

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2480.000	15.86	28.90	37.22	81.56	89.10	74.00	15.10	peak
2	2483.500	15.86	28.90	37.22	40.49	48.03	74.00	-25.97	peak
3	2499.975	15.87	28.90	37.18	42.36	49.95	74.00	-24.05	peak



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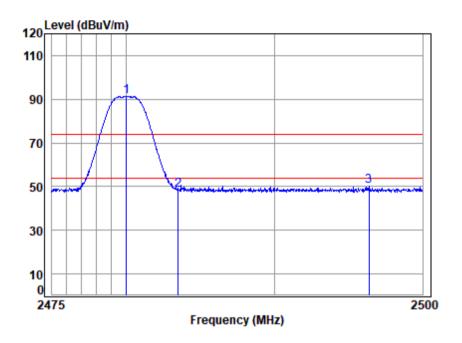


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 21 of 118

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



Site : chamber

Condition: 3m VERTICAL

: 03488AT\03490AT Mode : 2480 Band edge

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2480.000	15.86	28.90	37.22	83.94	91.48	74.00	17.48	peak
2	2483.500	15.86	28.90	37.22	41.00	48.54	74.00	-25.46	peak
3	2496.359	15.87	28.90	37.19	42.73	50.31	74.00	-23.69	peak



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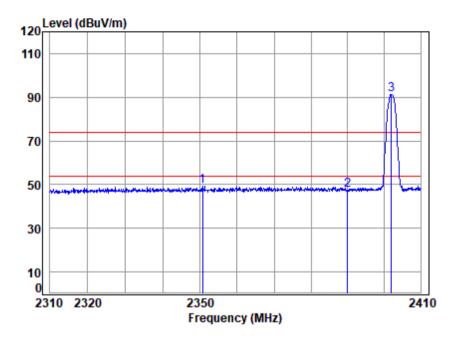


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 22 of 118

Test Mode: 09; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 03488AT\03490AT Mode : 2402 Band edge

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2350.687	15.79	29.10	37.53	41.80	49.16	74.00	-24.84	peak
2	2390.000	15.81	29.10	37.44	40.01	47.48	74.00	-26.52	peak
3	p 2402.000	15.82	29.09	37.41	83.90	91.40	74.00	17.40	peak



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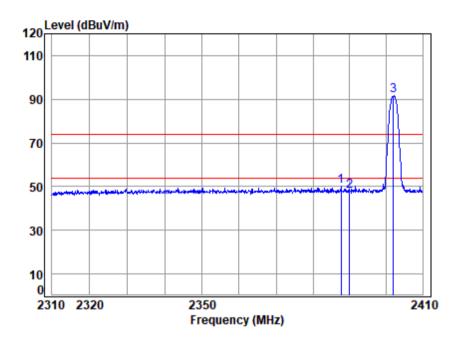


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 23 of 118

Test Mode: 09; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 03488AT\03490AT Mode : 2402 Band edge

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.635	15.81	29.10	37.44	42.70	50.17	74.00	-23.83	peak
2	2390.000	15.81	29.10	37.44	40.35	47.82	74.00	-26.18	peak
3	p 2402.000	15.82	29.09	37.41	84.05	91.55	74.00	17.55	peak



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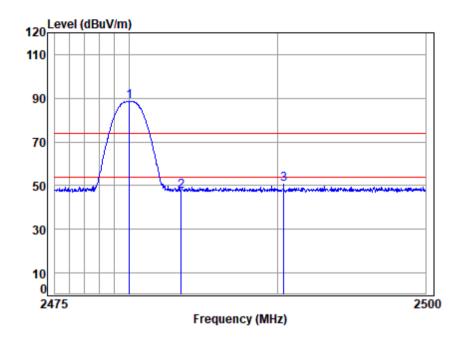


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 24 of 118

Test Mode: 09; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 03488AT\03490AT Mode : 2480 Band edge

Note : BLE

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	р	2480.000	15.86	28.90	37.22	81.18	88.72	74.00	14.72	peak
2		2483.500	15.86	28.90	37.22	39.90	47.44	74.00	-26.56	peak
3		2490.395	15.86	28.90	37.20	42.87	50.43	74.00	-23.57	peak



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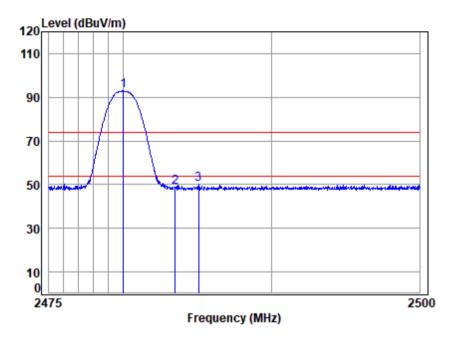


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 25 of 118

Test Mode: 09; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 03488AT\03490AT Mode : 2480 Band edge

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2480.000	15.86	28.90	37.22	85.34	92.88	74.00	18.88	peak
2	2483.500	15.86	28.90	37.22	41.45	48.99	74.00	-25.01	peak
3	2485.070	15.86	28.90	37.21	42.45	50.00	74.00	-24.00	peak



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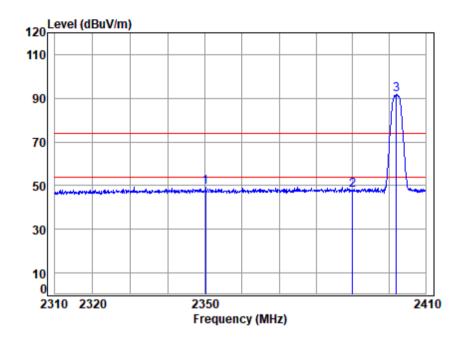


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 26 of 118

Test Mode: 10; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 03488AT\03490AT Mode : 2402 Band edge

Note : BLE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2350.189	15.79	29.10	37.53	42.07	49.43	74.00	-24.57	peak
2	2390.000	15.81	29.10	37.44	40.35	47.82	74.00	-26.18	peak
3 p	2402.000	15.82	29.09	37.41	84.37	91.87	74.00	17.87	peak



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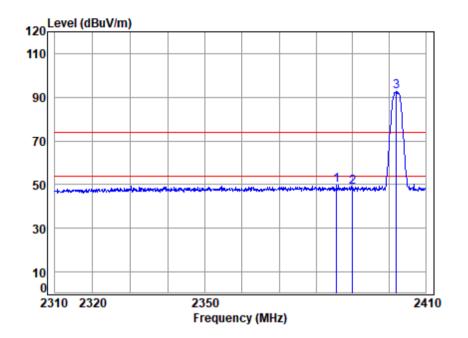


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 27 of 118

Test Mode: 10; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 03488AT\03490AT Mode : 2402 Band edge

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2385.612	15.81	29.10	37.45	42.40	49.86	74.00	-24.14	peak
2	2390.000	15.81	29.10	37.44	41.13	48.60	74.00	-25.40	peak
3	p 2402.000	15.82	29.09	37.41	85.05	92.55	74.00	18.55	peak



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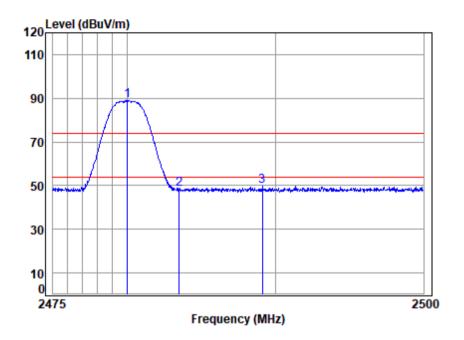


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 28 of 118

Test Mode: 10; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 03488AT\03490AT Mode : 2480 Band edge

Note : BLE

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2480.000	15.86	28.90	37.22	81.50	89.04	74.00	15.04	peak
2	2483.500	15.86	28.90	37.22	40.68	48.22	74.00	-25.78	peak
3	2489.094	15.86	28.90	37.20	42.08	49.64	74.00	-24.36	peak



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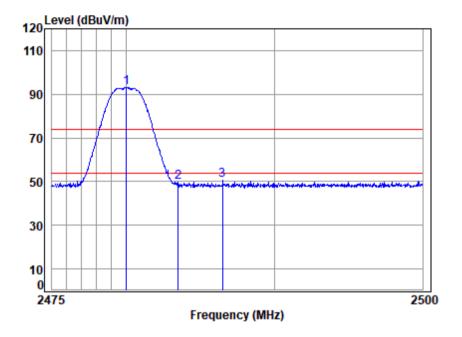


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 29 of 118

Test Mode: 10; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 03488AT\03490AT Mode : 2480 Band edge

Note : BLE

	Freq			Preamp Factor					
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2480.000	15.86	28.90	37.22	85.63	93.17	74.00	19.17	peak
2	2483.500	15.86	28.90	37.22	42.07	49.61	74.00	-24.39	peak
3	2486.494	15.86	28.90	37.21	42.88	50.43	74.00	-23.57	peak



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 30 of 118

7.2 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		

7.2.1 E.U.T. Operation

Operating Environment:

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

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description									
Final test	02	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.									
Pre-scan	03	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.									
Final test	09	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.									
Pre-scan	10	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.									



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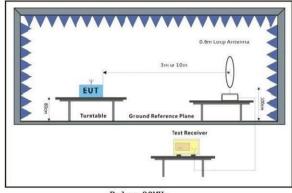


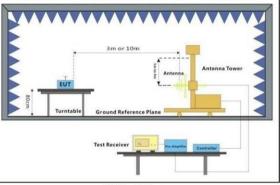
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 31 of 118

7.2.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

7.2.4 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. 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 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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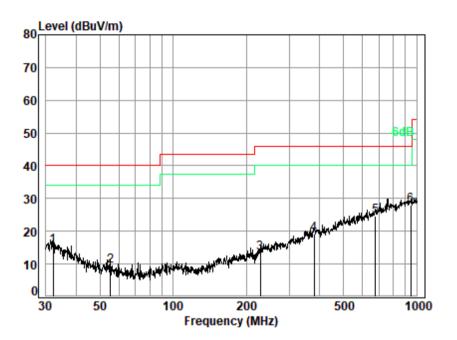


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 32 of 118

Test Mode: 02; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 03488AT

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	32.07	20.24	0.66	27.80	22.44	15.54	40.00	-24.46	QP
2	55.22	11.94	0.88	27.73	24.24	9.33	40.00	-30.67	QP
3	227.69	16.12	1.85	27.15	22.63	13.45	46.00	-32.55	QP
4	379.91	20.91	2.47	27.25	23.00	19.13	46.00	-26.87	QP
5	677.58	25.78	3.44	27.99	23.47	24.70	46.00	-21.30	QP
6 a	948.76	28.23	4.22	26.90	22.31	27.86	46.00	-18.14	OP



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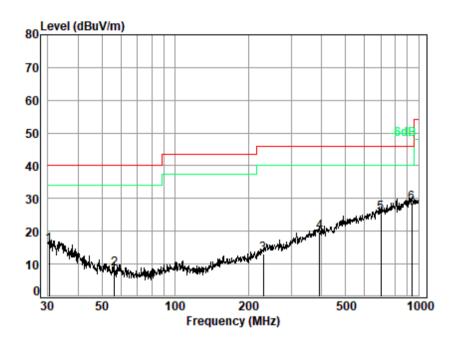


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 33 of 118

Test Mode: 02; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 03488AT

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	30.42	21.00	0.64	27.80	21.92	15.76	40.00	-24.24	QP
2	56.20	11.83	0.89	27.73	23.52	8.51	40.00	-31.49	QP
3	230.10	16.46	1.86	27.14	21.84	13.02	46.00	-32.98	QP
4	392.10	20.73	2.52	27.30	23.73	19.68	46.00	-26.32	QP
5	699.30	25.93	3.51	27.92	23.89	25.41	46.00	-20.59	QP
6 q	938.83	28.15	4.19	26.94	23.16	28.56	46.00	-17.44	OP



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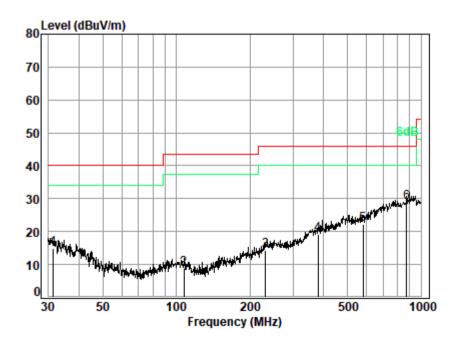


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 34 of 118

Test Mode: 09; Polarity: Horizontal



: chamber

Condition: 3m HORIZONTAL

Job No. : 03488AT

Test Mode: 09

				Preamp					
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.399	20.55	0.66	27.80	21.40	14.81	40.00	-25.19	QP
2	107.134	12.13	1.23	27.58	22.93	8.71	43.50	-34.79	QP
3	231.718	16.66	1.87	27.14	22.91	14.30	46.00	-31.70	QP
4	379.914	20.91	2.47	27.25	23.09	19.22	46.00	-26.78	QP
5	580.703	23.95	3.15	28.14	23.23	22.19	46.00	-23.81	QP
6 0	272 123	27 66	1 02	27 26	2/ 37	28 79	16 00	_17 21	OΡ



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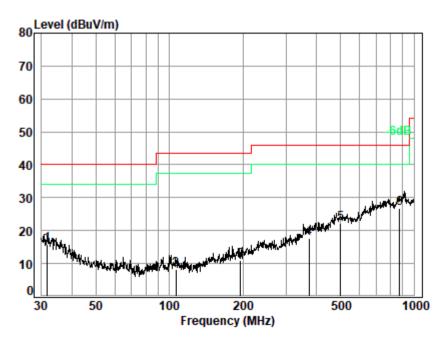


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 35 of 118

Test Mode: 02; Polarity: Vertical



: chamber Condition: 3m VERTICAL Job No. : 03488AT

Test Mode: 09

		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	31.731	20.39	0.66	27.80	22.45	15.70	40.00	-24.30	QP
2	106.385	12.16	1.22	27.59	22.45	8.24	43.50	-35.26	QP
3	195.137	14.13	1.70	27.27	22.46	11.02	43.50	-32.48	QP
4	372.005	20.54	2.44	27.21	21.86	17.63	46.00	-28.37	QP
5	501.179	22.95	2.89	27.79	24.18	22.23	46.00	-23.77	QP
6 q	872.183	27.66	4.02	27.26	22.35	26.77	46.00	-19.23	QP



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900348803

> Page: 36 of 118

7.3 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

7.3.1 E.U.T. Operation

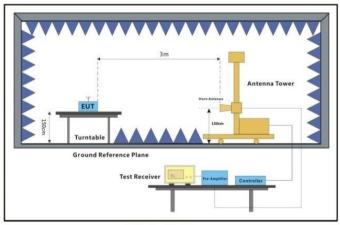
Operating Environment:

Temperature: 24.8 °C Humidity: 65.6 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

7.3.2 Test mode Description							
Pre-scan / Final test	Mode Code	Description					
Final test	02	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.					
Final test	03	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.					
Final test	09	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.					
Final test	10	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.					

7.3.3 Test Setup Diagram



Above 1GHz



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900348803

> Page: 37 of 118

7.3.4 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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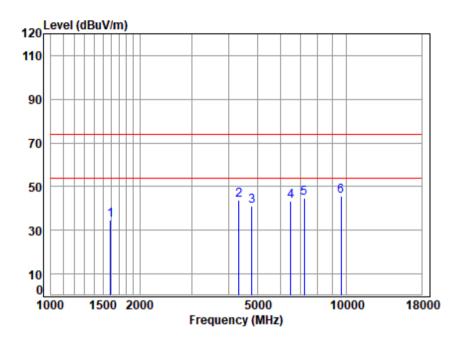


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 38 of 118

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



Site : chamber

Condition: 3m HORIZONTAL : 03488AT\03490AT Mode : 2402 TX RSE

: BLE

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.571	4.77	26.83	61.68	64.90	34.82	74.00	-39.18	peak
2	4329.354	8.09	34.23	61.48	63.10	43.94	74.00	-30.06	peak
3	4804.000	8.00	34.32	61.88	60.69	41.13	74.00	-32.87	peak
4	6488.754	9.15	35.58	62.45	61.17	43.45	74.00	-30.55	peak
5	7206.000	9.32	35.70	62.04	61.51	44.49	74.00	-29.51	peak
6 p	9608.000	11.41	37.42	62.15	58.91	45.59	74.00	-28.41	peak



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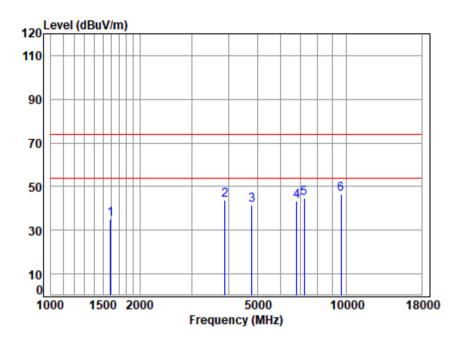


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 39 of 118

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



Site : chamber

Condition: 3m VERTICAL

: 03488AT\03490AT

Mode : 2402 TX RSE

: BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.571	4.77	26.83	61.68	65.15	35.07	74.00	-38.93	peak
2	3890.255	8.21	33.66	61.19	63.21	43.89	74.00	-30.11	peak
3	4804.000	8.00	34.32	61.88	61.14	41.58	74.00	-32.42	peak
4	6795.879	9.37	35.29	62.27	61.07	43.46	74.00	-30.54	peak
5	7206.000	9.32	35.70	62.04	61.71	44.69	74.00	-29.31	peak
6	p 9608.000	11.41	37.42	62.15	59.96	46.64	74.00	-27.36	peak



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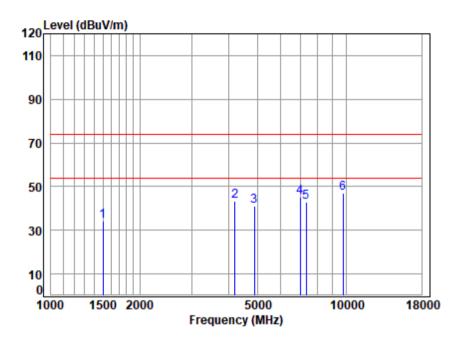


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 40 of 118

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



Site : chamber

Condition: 3m HORIZONTAL : 03488AT\03490AT

Mode : 2440 TX RSE

: BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1498.781	4.57	26.77	61.66	64.71	34.39	74.00	-39.61	peak
2	4206.011	8.26	33.80	61.37	62.80	43.49	74.00	-30.51	peak
3	4880.000	8.03	34.62	61.94	60.46	41.17	74.00	-32.83	peak
4	6995.172	9.53	35.71	62.16	62.01	45.09	74.00	-28.91	peak
5	7320.000	9.21	35.70	61.98	59.89	42.82	74.00	-31.18	peak
	9760.000	11.32	37.38	62.19	60.50	47.01	74.00	-26.99	peak



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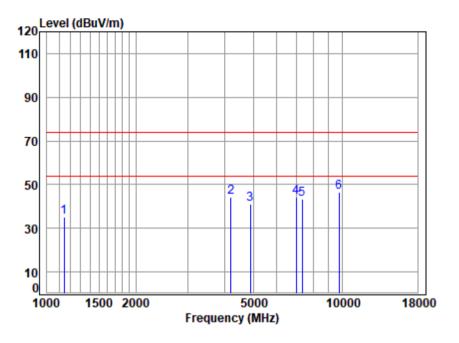


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 41 of 118

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



Site : chamber

Condition: 3m VERTICAL

: 03488AT\03490AT

Mode : 2440 TX RSE

: BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1142.201	4.56	23.87	61.53	68.12	35.02	74.00	-38.98	peak
2	4193.872	8.28	33.80	61.35	63.32	44.05	74.00	-29.95	peak
3	4880.000	8.03	34.62	61.94	60.46	41.17	74.00	-32.83	peak
4	6995.172	9.53	35.71	62.16	61.21	44.29	74.00	-29.71	peak
5	7320.000	9.21	35.70	61.98	60.35	43.28	74.00	-30.72	peak
6 r	9760.000	11.32	37.38	62.19	59.92	46.43	74.00	-27.57	peak



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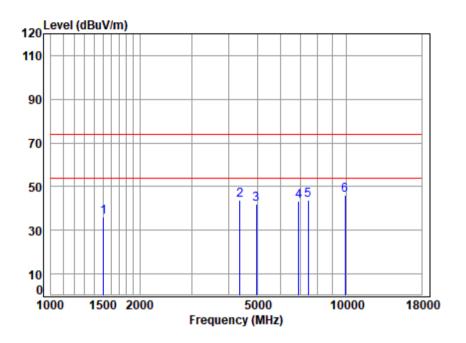


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 42 of 118

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



Site : chamber

Condition: 3m HORIZONTAL : 03488AT\03490AT

Mode : 2480 TX RSE

: BLE

			_							
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1507.470	4.59	26.83	61.66	66.29	36.05	74.00	-37.95	peak
2		4367.058	8.04	34.54	61.51	62.85	43.92	74.00	-30.08	peak
3		4960.000	8.06	34.56	62.01	61.15	41.76	74.00	-32.24	peak
4		6894.806	9.45	35.59	62.21	60.57	43.40	74.00	-30.60	peak
5		7440.000	9.09	35.96	61.92	60.59	43.72	74.00	-30.28	peak
6	р	9920.000	11.23	37.30	62.24	59.68	45.97	74.00	-28.03	peak



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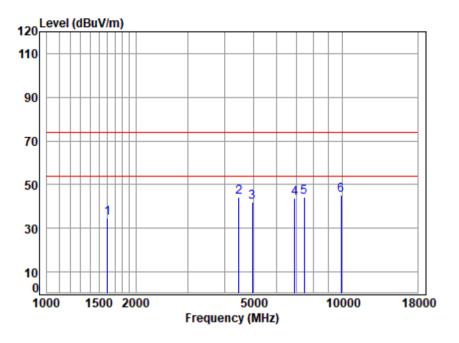


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 43 of 118

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



Site : chamber

Condition: 3m VERTICAL

: 03488AT\03490AT

Mode : 2480 TX RSE

: BLE

			_							
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1601.804	4.79	26.78	61.69	64.67	34.55	74.00	-39.45	peak
2		4469.214	7.90	33.97	61.60	63.89	44.16	74.00	-29.84	peak
3		4960.000	8.06	34.56	62.01	61.55	42.16	74.00	-31.84	peak
4		6894.806	9.45	35.59	62.21	61.06	43.89	74.00	-30.11	peak
5		7440.000	9.09	35.96	61.92	61.00	44.13	74.00	-29.87	peak
6	р	9920.000	11.23	37.30	62.24	58.98	45.27	74.00	-28.73	peak



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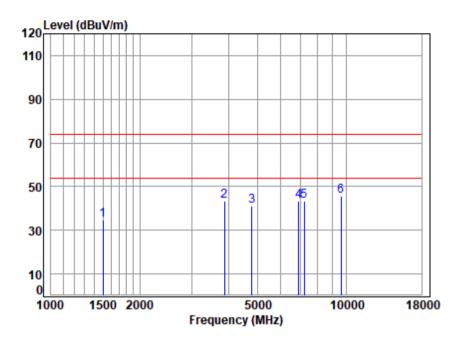


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 44 of 118

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



Site : chamber

Condition: 3m HORIZONTAL : 03488AT\03490AT Mode : 2402 TX RSE

: BLE

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			06.77				7		
1	1498.781	4.5/	26.//	61.66	64.83	34.51	/4.00	-39.49	peak
2	3879.027	8.18	33.51	61.20	62.75	43.24	74.00	-30.76	peak
3	4804.000	8.00	34.32	61.88	60.82	41.26	74.00	-32.74	peak
4	6914.763	9.47	35.66	62.20	60.62	43.55	74.00	-30.45	peak
5	7206.000	9.32	35.70	62.04	60.48	43.46	74.00	-30.54	peak
6 p	9608.000	11.41	37.42	62.15	59.05	45.73	74.00	-28.27	peak



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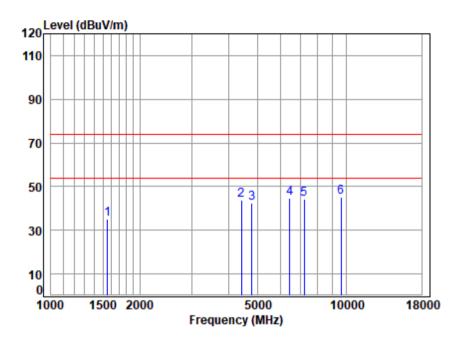


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 45 of 118

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



Site : chamber

Condition: 3m VERTICAL

: 03488AT\03490AT

Mode : 2402 TX RSE

: BLE

	Freq			Preamp Factor			Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1556.169	4.69	26.98	61.67	64.96	34.96	74.00	-39.04	peak
2	4417.841	7.97	34.59	61.56	63.00	44.00	74.00	-30.00	peak
3	4804.000	8.00	34.32	61.88	61.88	42.32	74.00	-31.68	peak
4	6451.353	9.18	35.50	62.47	62.33	44.54	74.00	-29.46	peak
5	7206.000	9.32	35.70	62.04	61.14	44.12	74.00	-29.88	peak
6	p 9608.000	11.41	37.42	62.15	58.72	45.40	74.00	-28.60	peak



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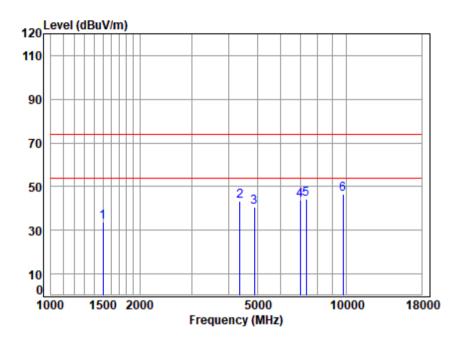


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 46 of 118

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



Site : chamber

Condition: 3m HORIZONTAL : 03488AT\03490AT Mode : 2440 TX RSE

: BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1498.781	4.57	26.77	61.66	64.29	33.97	74.00	-40.03	peak
2	4367.058	8.04	34.54	61.51	62.21	43.28	74.00	-30.72	peak
3	4880.000	8.03	34.62	61.94	60.12	40.83	74.00	-33.17	peak
4	6995.172	9.53	35.71	62.16	60.74	43.82	74.00	-30.18	peak
5	7320.000	9.21	35.70	61.98	61.13	44.06	74.00	-29.94	peak
	9760.000	11.32	37.38	62.19	60.01	46.52	74.00	-27.48	peak



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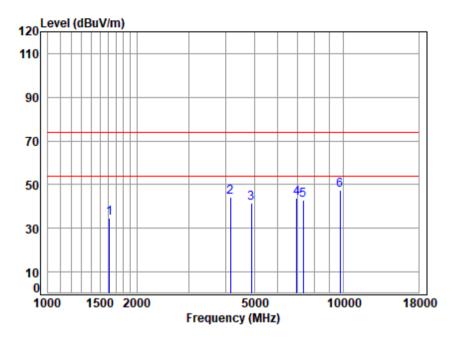


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 47 of 118

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



Site : chamber

Condition: 3m VERTICAL

: 03488AT\03490AT

Mode : 2440 TX RSE

: BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1615.754	4.82	26.64	61.69	65.05	34.82	74.00	-39.18	peak
2	4157.664	8.33	33.80	61.32	63.44	44.25	74.00	-29.75	peak
3	4880.000	8.03	34.62	61.94	60.59	41.30	74.00	-32.70	peak
4	6954.852	9.50	35.79	62.18	60.51	43.62	74.00	-30.38	peak
5	7320.000	9.21	35.70	61.98	59.85	42.78	74.00	-31.22	peak
6 r	9760.000	11.32	37.38	62.19	60.74	47.25	74.00	-26.75	peak



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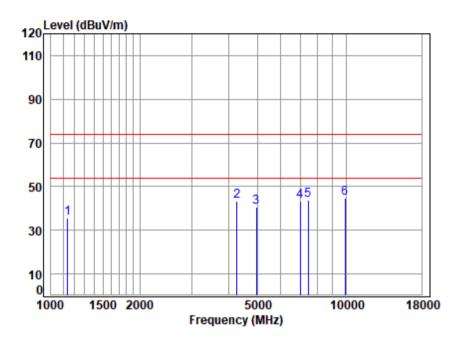


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 48 of 118

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



Site : chamber

Condition: 3m HORIZONTAL : 03488AT\03490AT Mode : 2480 TX RSE

: BLE

	Fre			Preamp Factor					Remark
	MH	lz dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.96	4.56	23.86	61.53	68.50	35.39	74.00	-38.61	peak
2	4267.23	8.18	33.87	61.42	62.90	43.53	74.00	-30.47	peak
3	4960.00	8.06	34.56	62.01	60.17	40.78	74.00	-33.22	peak
4	6995.17	9.53	35.71	62.16	60.05	43.13	74.00	-30.87	peak
5	7440.00	9.09	35.96	61.92	60.74	43.87	74.00	-30.13	peak
6	p 9920.00	0 11.23	37.30	62.24	58.47	44.76	74.00	-29.24	peak



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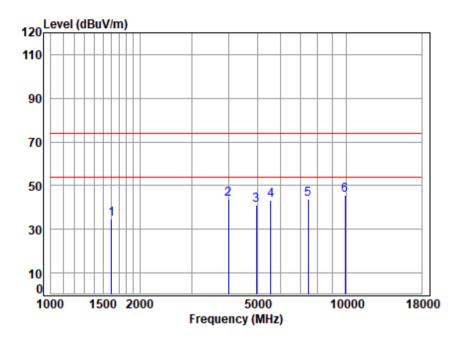


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 49 of 118

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



Site : chamber

Condition: 3m VERTICAL

: 03488AT\03490AT

Mode : 2480 TX RSE

: BLE

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1601.804	4.79	26.78	61.69	64.98	34.86	74.00	-39.14	peak
2		3992.781	8.54	33.07	61.17	63.27	43.71	74.00	-30.29	peak
3		4960.000	8.06	34.56	62.01	60.33	40.94	74.00	-33.06	peak
4		5551.069	9.32	34.70	62.45	61.88	43.45	74.00	-30.55	peak
5		7440.000	9.09	35.96	61.92	60.88	44.01	74.00	-29.99	peak
6	р	9920.000	11.23	37.30	62.24	59.12	45.41	74.00	-28.59	peak



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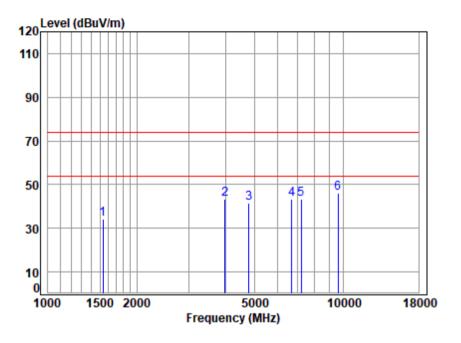


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 50 of 118

Test Mode: 09; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 03488AT\03490AT

Mode : 2402 TX RSE

: BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1538.281	4.65	26.95	61.67	64.31	34.24	74.00	-39.76	peak
2	3981.257	8.50	33.19	61.17	63.03	43.55	74.00	-30.45	peak
3	4804.000	8.00	34.32	61.88	61.11	41.55	74.00	-32.45	peak
4	6698.373	9.30	35.20	62.33	61.00	43.17	74.00	-30.83	peak
5	7206.000	9.32	35.70	62.04	60.32	43.30	74.00	-30.70	peak
6 p	9608.000	11.41	37.42	62.15	59.19	45.87	74.00	-28.13	peak



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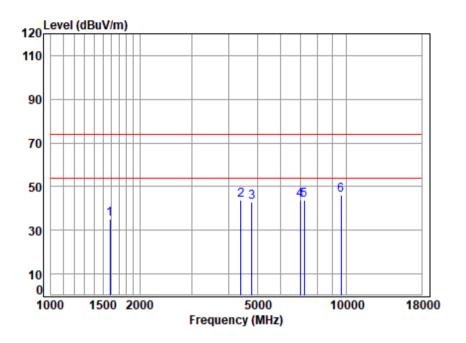


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 51 of 118

Test Mode: 09; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 03488AT\03490AT

Mode : 2402 TX RSE

: BLE

		Freq			Preamp Factor		Level			Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1587.975	4.76	26.85	61.68	65.08	35.01	74.00	-38.99	peak
2		4405.090	7.99	34.74	61.55	62.76	43.94	74.00	-30.06	peak
3		4804.000	8.00	34.32	61.88	62.34	42.78	74.00	-31.22	peak
4		6995.172	9.53	35.71	62.16	60.84	43.92	74.00	-30.08	peak
5		7206.000	9.32	35.70	62.04	60.83	43.81	74.00	-30.19	peak
6	р	9608.000	11.41	37.42	62.15	59.32	46.00	74.00	-28.00	peak



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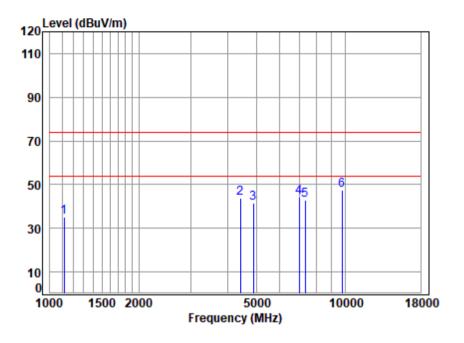


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 52 of 118

Test Mode: 09; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 03488AT\03490AT Mode : 2440 TX RSE

: BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1116.093	4.56	23.76	61.52	68.51	35.31	74.00	-38.69	peak
2	4417.841	7.97	34.59	61.56	62.89	43.89	74.00	-30.11	peak
3	4880.000	8.03	34.62	61.94	60.95	41.66	74.00	-32.34	peak
4	6995.172	9.53	35.71	62.16	61.15	44.23	74.00	-29.77	peak
5	7320.000	9.21	35.70	61.98	59.97	42.90	74.00	-31.10	peak
6 p	9760.000	11.32	37.38	62.19	61.06	47.57	74.00	-26.43	peak



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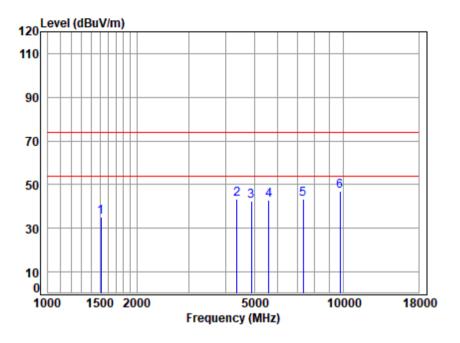


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 53 of 118

Test Mode: 09; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 03488AT\03490AT

Mode : 2440 TX RSE

: BLE

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	4544 022	4.60	26.05	64.66	CF 40	25.20	74.00	20.72	
1	1511.833	4.60	26.85	61.66	65.49	35.28	74.00	-38./2	реак
2	4367.058	8.04	34.54	61.51	62.35	43.42	74.00	-30.58	peak
3	4880.000	8.03	34.62	61.94	61.69	42.40	74.00	-31.60	peak
4	5599.412	9.35	34.70	62.48	61.49	43.06	74.00	-30.94	peak
5	7320.000	9.21	35.70	61.98	60.44	43.37	74.00	-30.63	peak
6 p	9760.000	11.32	37.38	62.19	60.34	46.85	74.00	-27.15	peak



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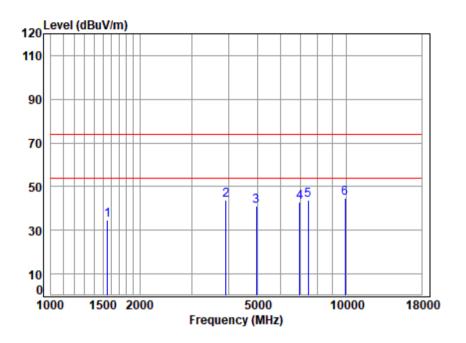


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 54 of 118

Test Mode: 09; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 03488AT\03490AT Mode : 2480 TX RSE

: BLE

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1551.677	4.68	26.99	61.67	64.73	34.73	74.00	-39.27	peak
2	3924.135	8.32	33.66	61.19	63.16	43.95	74.00	-30.05	peak
3	4960.000	8.06	34.56	62.01	60.51	41.12	74.00	-32.88	peak
4	6954.852	9.50	35.79	62.18	59.99	43.10	74.00	-30.90	peak
5	7440.000	9.09	35.96	61.92	60.79	43.92	74.00	-30.08	peak
6	p 9920.000	11.23	37.30	62.24	58.60	44.89	74.00	-29.11	peak



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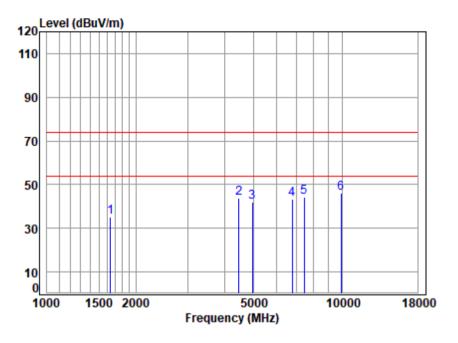


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 55 of 118

Test Mode: 09; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 03488AT\03490AT

Mode : 2480 TX RSE

: BLE

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1644.019	4.88	26.36	61.70	65.39	34.93	74.00	-39.07	peak
2	4469.214	7.90	33.97	61.60	63.69	43.96	74.00	-30.04	peak
3	4960.000	8.06	34.56	62.01	61.21	41.82	74.00	-32.18	peak
4	6776.265	9.36	35.25	62.28	60.92	43.25	74.00	-30.75	peak
5	7440.000	9.09	35.96	61.92	61.05	44.18	74.00	-29.82	peak
	p 9920.000	11.23	37.30	62.24	59.58	45.87	74.00	-28.13	peak



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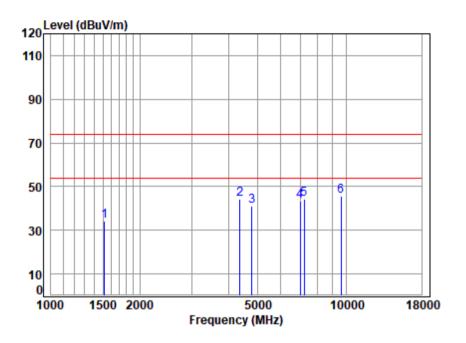


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 56 of 118

Test Mode: 10; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 03488AT\03490AT Mode : 2402 TX RSE

: BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1516.210	4.61	26.86	61.66	64.53	34.34	74.00	-39.66	peak
2	4367.058	8.04	34.54	61.51	63.17	44.24	74.00	-29.76	peak
3	4804.000	8.00	34.32	61.88	60.64	41.08	74.00	-32.92	peak
4	6995.172	9.53	35.71	62.16	60.14	43.22	74.00	-30.78	peak
5	7206.000	9.32	35.70	62.04	61.34	44.32	74.00	-29.68	peak
6 p	9608.000	11.41	37.42	62.15	59.08	45.76	74.00	-28.24	peak



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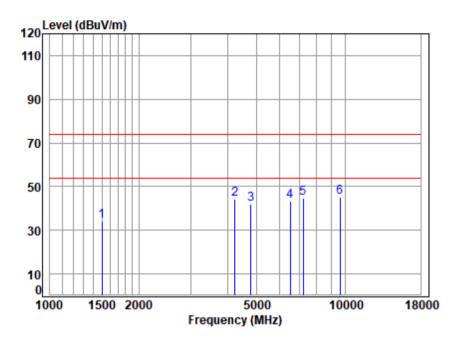


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 57 of 118

Test Mode: 10; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 03488AT\03490AT

Mode : 2402 TX RSE

: BLE

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1503.119	4.58	26.81	61.66	64.49	34.22	74.00	-39.78	peak
2	4230.396	8.23	33.80	61.39	63.66	44.30	74.00	-29.70	peak
3	4804.000	8.00	34.32	61.88	61.67	42.11	74.00	-31.89	peak
4	6526.373	9.16	35.55	62.43	60.87	43.15	74.00	-30.85	peak
5	7206.000	9.32	35.70	62.04	61.60	44.58	74.00	-29.42	peak
6	p 9608.000	11.41	37.42	62.15	58.56	45.24	74.00	-28.76	peak



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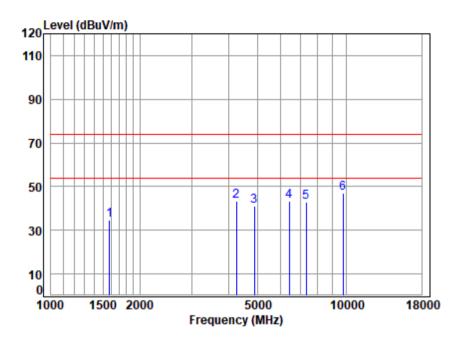


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 58 of 118

Test Mode: 10; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 03488AT\03490AT

Mode : 2440 TX RSE

: BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1578.822	4.74	26.88	61.68	64.77	34.71	74.00	-39.29	peak
2	4242.641	8.21	33.80	61.40	62.86	43.47	74.00	-30.53	peak
3	4880.000	8.03	34.62	61.94	60.21	40.92	74.00	-33.08	peak
4	6414.167	9.20	35.29	62.49	61.21	43.21	74.00	-30.79	peak
5	7320.000	9.21	35.70	61.98	59.97	42.90	74.00	-31.10	peak
6 r	9760.000	11.32	37.38	62.19	60.46	46.97	74.00	-27.03	peak



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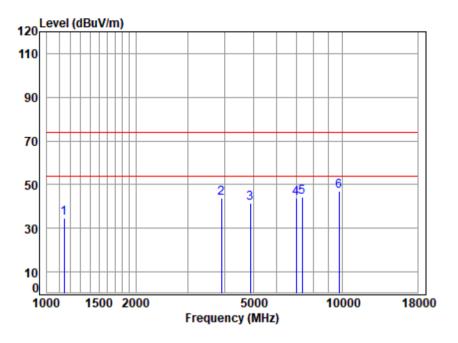


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 59 of 118

Test Mode: 10; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 03488AT\03490AT

Mode : 2440 TX RSE

: BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	4.56	23.88	61.53	67.95	34.86	74.00	-39.14	peak
2	3901.516	8.25	33.79	61.19	63.06	43.91	74.00	-30.09	peak
3	4880.000	8.03	34.62	61.94	61.02	41.73	74.00	-32.27	peak
4	6995.172	9.53	35.71	62.16	60.71	43.79	74.00	-30.21	peak
5	7320.000	9.21	35.70	61.98	61.13	44.06	74.00	-29.94	peak
6 p	9760.000	11.32	37.38	62.19	60.64	47.15	74.00	-26.85	peak



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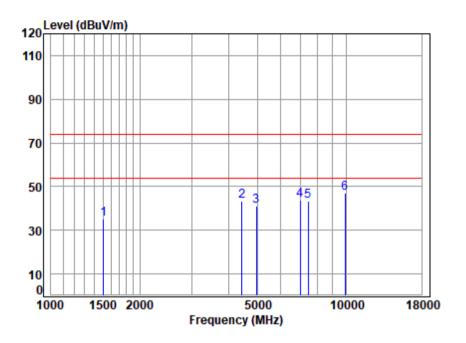


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 60 of 118

Test Mode: 10; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 03488AT\03490AT Mode : 2480 TX RSE

: BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1507.470	4.59	26.83	61.66	65.22	34.98	74.00	-39.02	peak
2	4443.453	7.94	34.28	61.58	62.80	43.44	74.00	-30.56	peak
3	4960.000	8.06	34.56	62.01	60.58	41.19	74.00	-32.81	peak
4	6995.172	9.53	35.71	62.16	60.72	43.80	74.00	-30.20	peak
5	7440.000	9.09	35.96	61.92	60.34	43.47	74.00	-30.53	peak
6	p 9920.000	11.23	37.30	62.24	60.88	47.17	74.00	-26.83	peak



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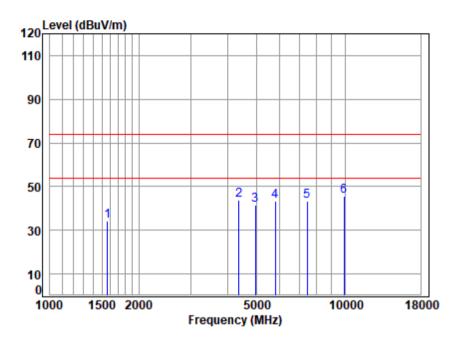


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 61 of 118

Test Mode: 10; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 03488AT\03490AT

Mode : 2480 TX RSE

: BLE

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1565.191	4.71	26.94	61.68	64.14	34.11	74.00	-39.89	peak
2		4367.058	8.04	34.54	61.51	62.74	43.81	74.00	-30.19	peak
3		4960.000	8.06	34.56	62.01	60.98	41.59	74.00	-32.41	peak
4		5797.032	9.43	34.29	62.62	62.06	43.16	74.00	-30.84	peak
5		7440.000	9.09	35.96	61.92	60.20	43.33	74.00	-30.67	peak
6	р	9920.000	11.23	37.30	62.24	59.19	45.48	74.00	-28.52	peak



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 62 of 118

7.4 Conducted Peak Output Power

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

Limit:

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C Atmospheric Pressure: 1020 mbar Humidity: 45.4 % RH

7.4.2 Test Mode Description

1.4.2 Test mode besorption				
Pre-scan / Final test	Mode Code	Description		
Final test	02	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.		
Final test	03	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.		
Final test	09	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.		
Final test	10	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.		



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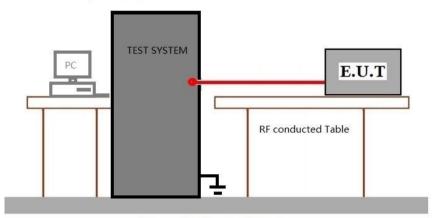


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 63 of 118

7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 64 of 118

7.5 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

7.5.1 E.U.T. Operation

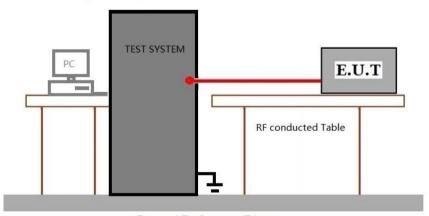
Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 22.6 °C Humidity: 45.4 % RH

7.5.2 Test Mode Description

11012 11001 111040 20001 211011				
Pre-scan / Final test	Mode Code	Description		
Final test	02	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.		
Final test	03	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.		
Final test	09	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.		
Final test	10	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.		

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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 65 of 118

7.6 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

7.6.1 E.U.T. Operation

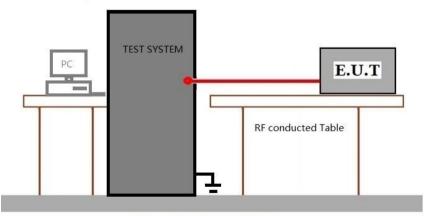
Operating Environment:

Temperature: 22.6 °C Humidity: 45.4 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	09	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	10	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

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> Page: 66 of 118

7.7 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).

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C Humidity: 45.4 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	09	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	10	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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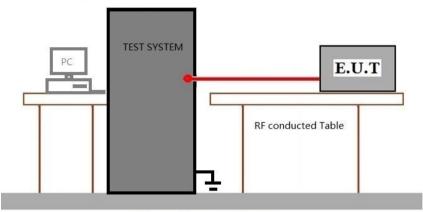


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 67 of 118

7.7.3 Test Setup Diagram



Ground Reference Plane

7.7.4 Measurement Procedure and Data

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> Page: 68 of 118

7.8 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).

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C Humidity: 45.4 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description			
Final test	02	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.			
Final test	03	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.			
Final test	09	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.			
Final test	10	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.			



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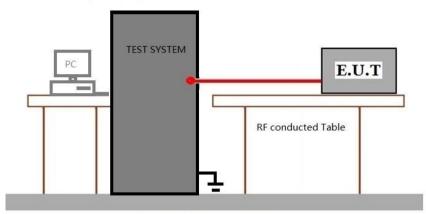


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 69 of 118

7.8.3 Test Setup Diagram



Ground Reference Plane

7.8.4 Measurement Procedure and Data

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> Page: 70 of 118

Test Setup Photo 8

Refer to Appendix - Test Setup Photo for SZCR2409003488AT

EUT Constructional Details (EUT Photos) 9

Refer to Appendix - External and Internal Photos for SZCR2409003488AT



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> Page: 71 of 118

10 Appendix

For right earbud:

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

	Ant1								
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)		
1M	SISO	2402	0.408	0.625	65.28	1.85	0.03		
		2440	0.408	0.625	65.28	1.85	0.01		
		2480	0.408	0.625	65.28	1.85	0.03		
2M	SISO	2402	0.225	0.625	36.00	4.44	0.02		
		2440	0.224	0.625	35.84	4.46	0.03		
		2480	0.225	0.625	36.00	4.44	0.05		



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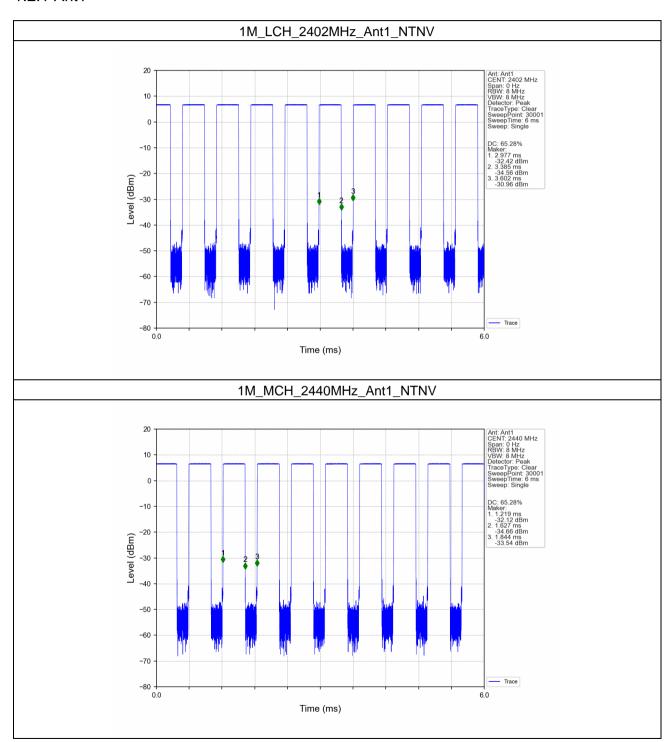
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Report No.: SZCR240900348803

Page: 72 of 118

1.2 Test Graph

1.2.1 Ant1





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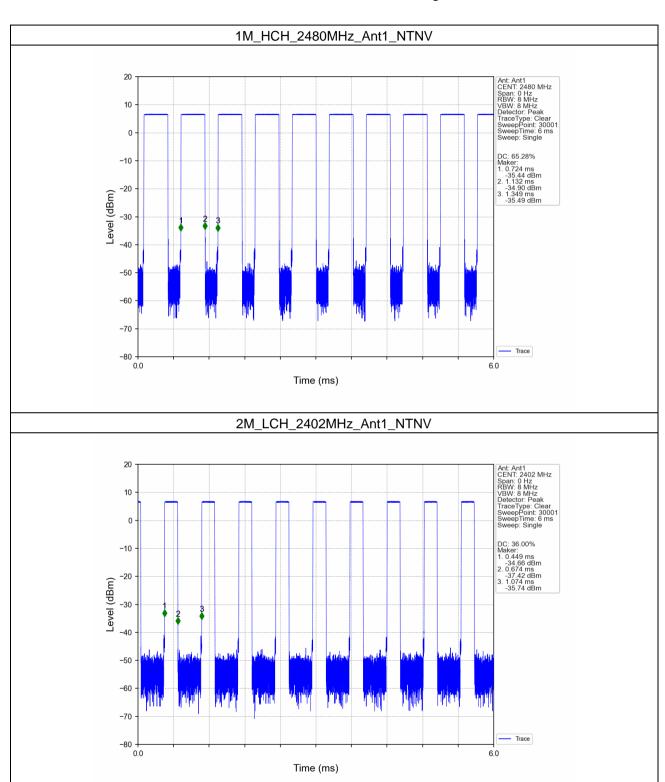
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Report No.: SZCR240900348803

Page: 73 of 118





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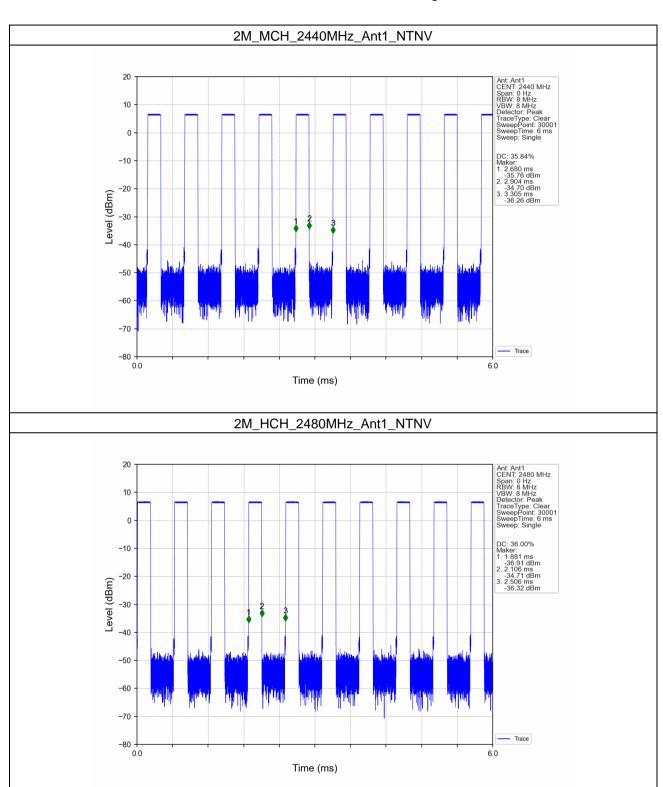
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Report No.: SZCR240900348803

Page: 74 of 118





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Report No.: SZCR240900348803

Page: 75 of 118

2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX	Frequency	ANT	99% Occupied Bandwidth (MHz)		Verdict
Mode	Туре	(MHz)	AIVI	Result	Limit	verdict
		2402	1	1.016	/	Pass
1M	SISO	2440	1	1.015	/	Pass
		2480	1	1.016	/	Pass
		2402	1	2.011	/	Pass
2M	SISO	2440	1	2.010	/	Pass
		2480	1	2.008	/	Pass

2.1.2 6dB BW

Mode	TX	Frequency	ANT	6dB Bandv	Vardiet	
Mode	Туре	(MHz)	ANI	Result	Limit	Verdict
		2402	1	0.665	>=0.5	Pass
1M	SISO	2440	1	0.668	>=0.5	Pass
		2480	1	0.665	>=0.5	Pass
		2402	1	1.166	>=0.5	Pass
2M	SISO	2440	1	1.168	>=0.5	Pass
		2480	1	1.165	>=0.5	Pass



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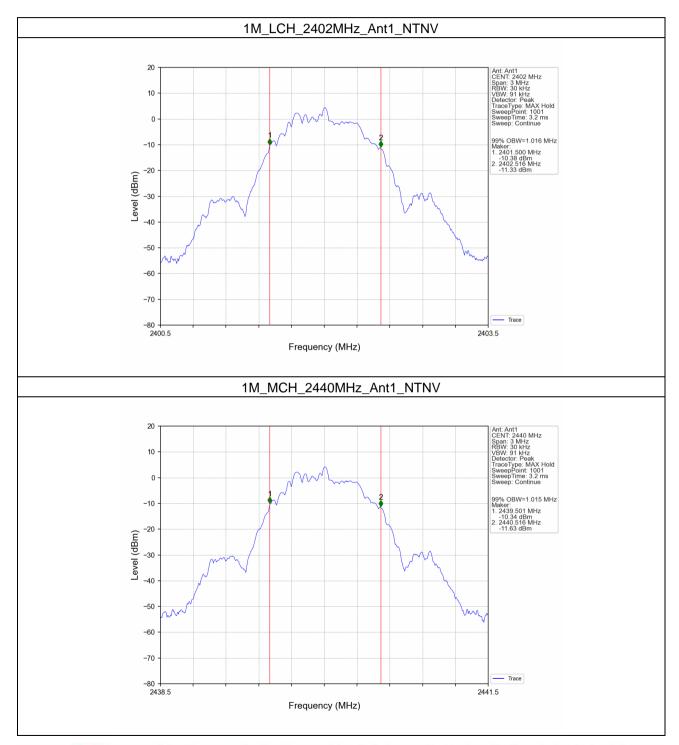
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Report No.: SZCR240900348803

Page: 76 of 118

2.2 Test Graph

2.2.1 OBW





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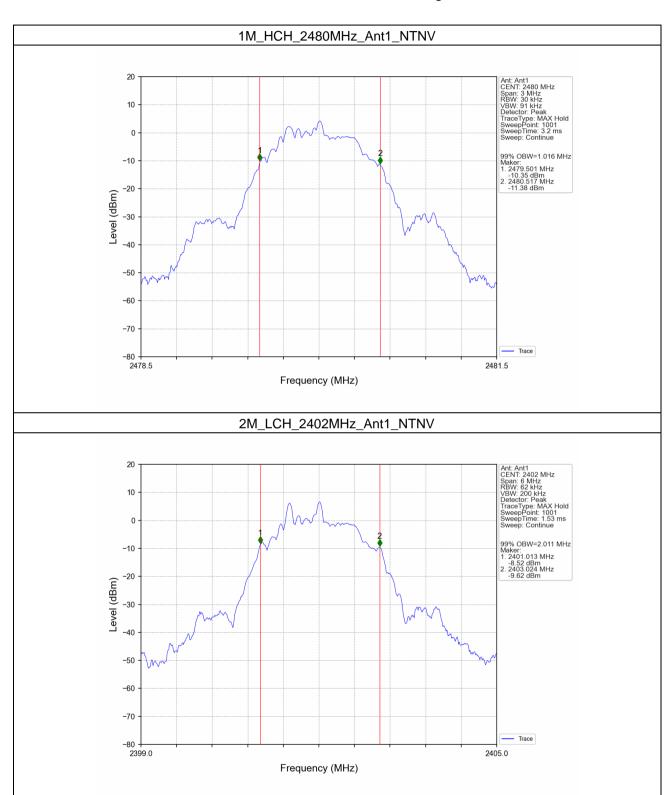
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 77 of 118





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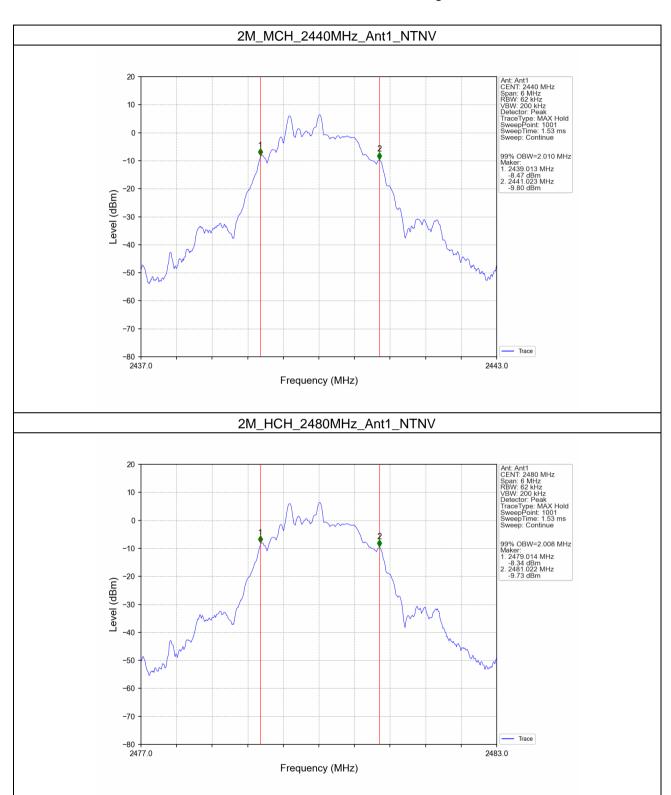
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 78 of 118





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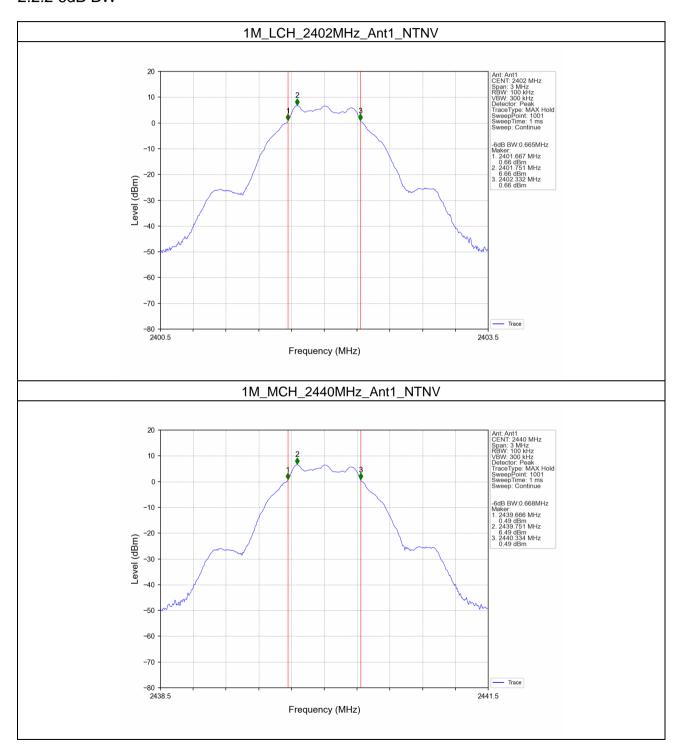


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 79 of 118

2.2.2 6dB BW





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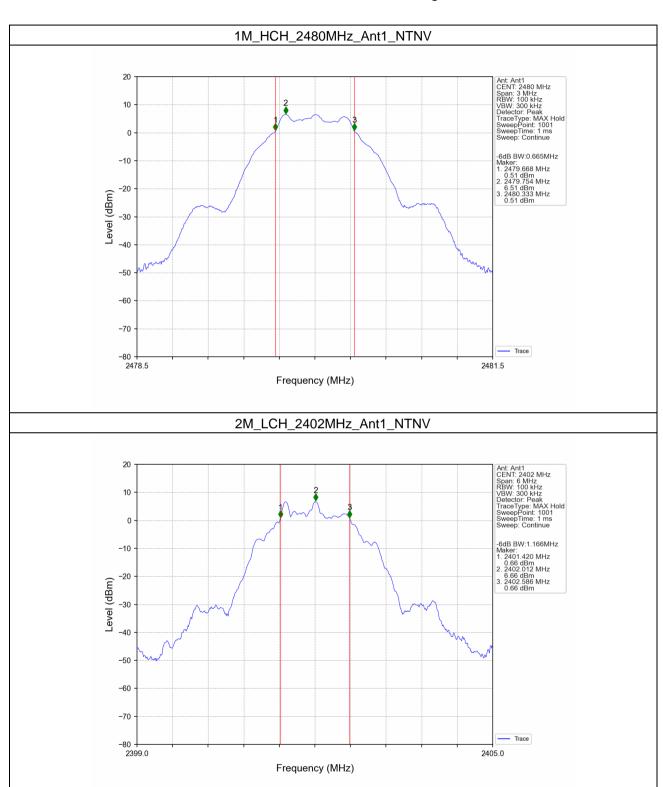
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 80 of 118





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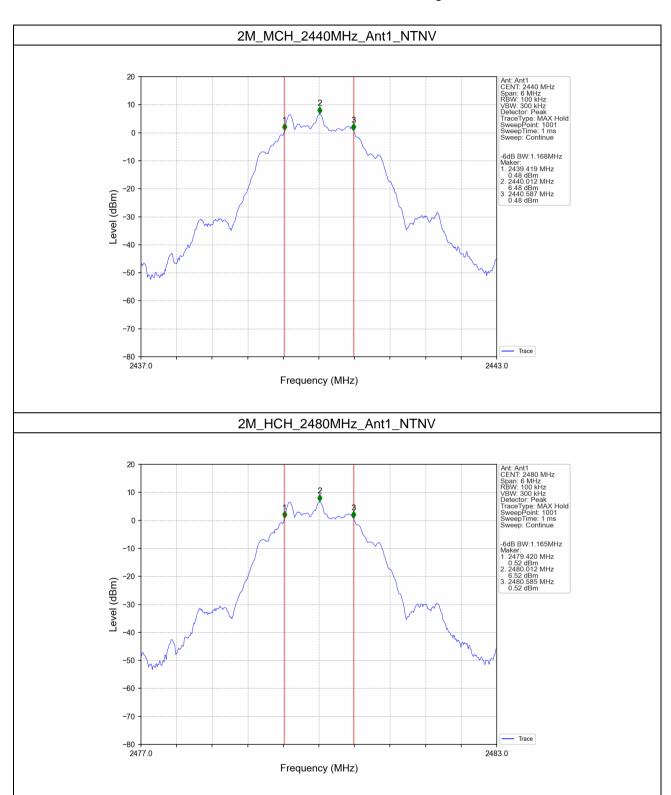
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 81 of 118





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 82 of 118

3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mada	TX	Frequency	Maximum Peak Conduc	Verdict	
Mode	Type	(MHz)	ANT1	Limit	verdict
		2402	6.72	<=30	Pass
1M	SISO	2440	6.56	<=30	Pass
		2480	6.58	<=30	Pass
		2402	6.71	<=30	Pass
2M	SISO	2440	6.56	<=30	Pass
		2480	6.59	<=30	Pass

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mada	TX	Frequency	Maximum PS	Verdict	
Mode	Type	(MHz)	ANT1	Limit	verdict
		2402	-8.55	<=8	Pass
1M	SISO	2440	-8.93	<=8	Pass
		2480	-8.87	<=8	Pass
		2402	-11.55	<=8	Pass
2M	SISO	2440	-11.67	<=8	Pass
		2480	-11.71	<=8	Pass



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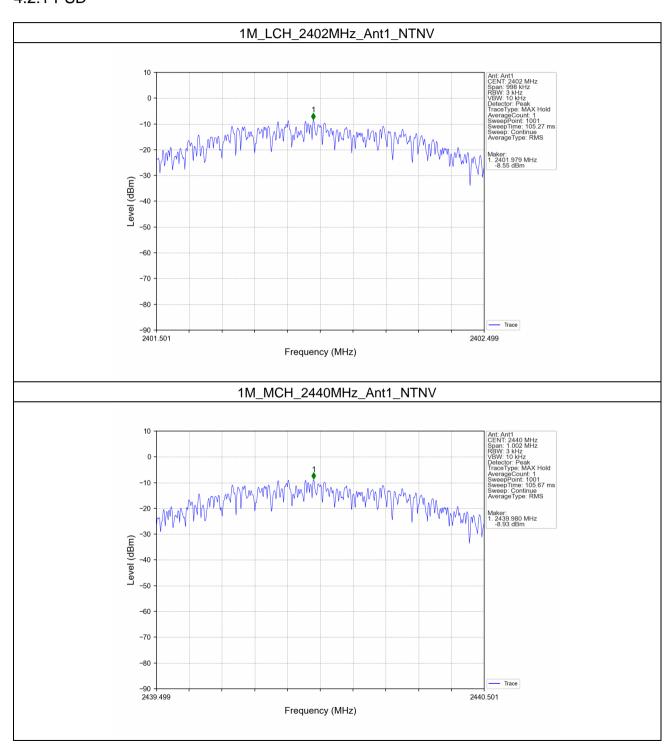
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Report No.: SZCR240900348803

Page: 83 of 118

4.2 Test Graph

4.2.1 PSD





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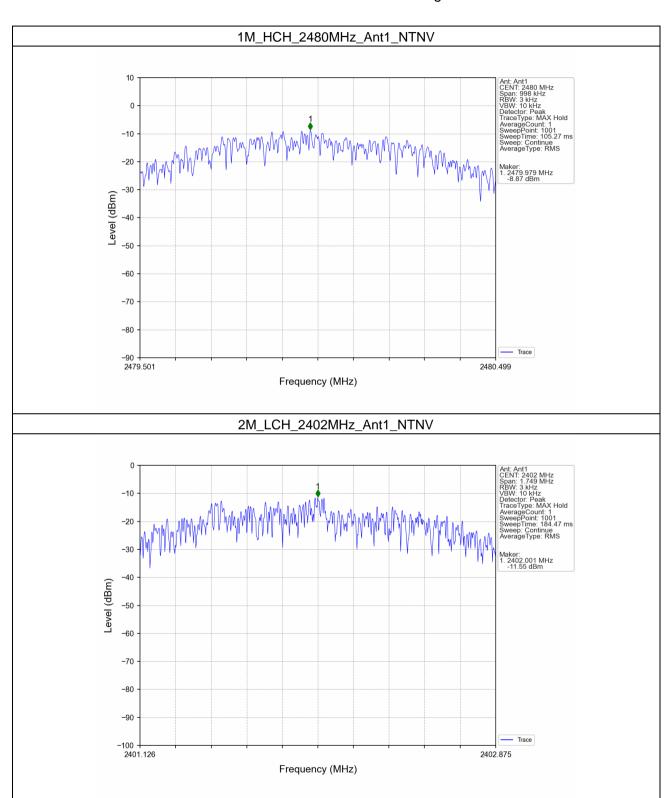
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Report No.: SZCR240900348803

Page: 84 of 118





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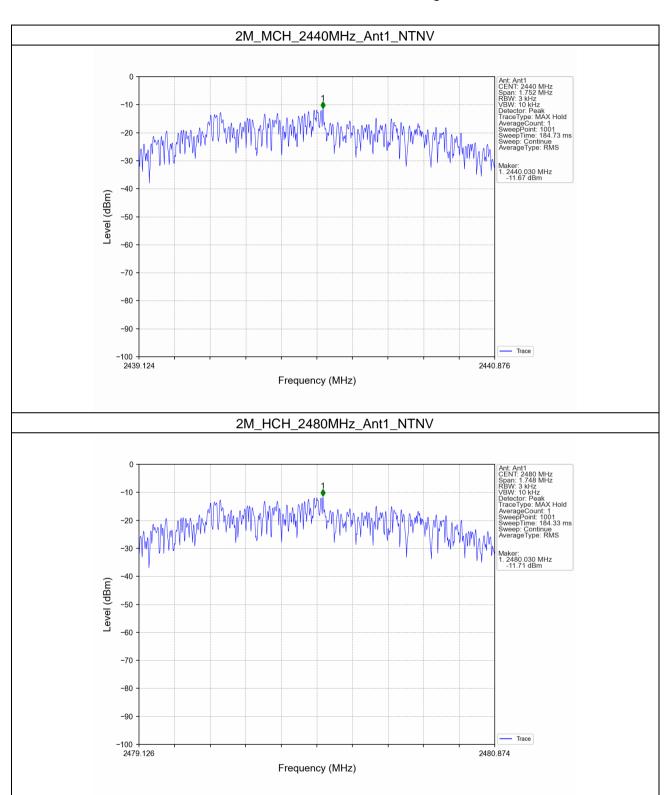
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Report No.: SZCR240900348803

Page: 85 of 118





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 86 of 118

Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2402	1	6.65
1M	SISO	2440	1	6.49
		2480	1	6.50
		2402	1	6.60
2M	SISO	2440	1	6.44
		2480	1	6.45

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	1	6.65	-13.35	Pass
1M	SISO	2440	1	6.65	-13.35	Pass
		2480	1	6.65	-13.35	Pass
		2402	1	6.60	-13.40	Pass
2M	SISO	2440	1	6.60	-13.40	Pass
		2480	1	6.60	-13.40	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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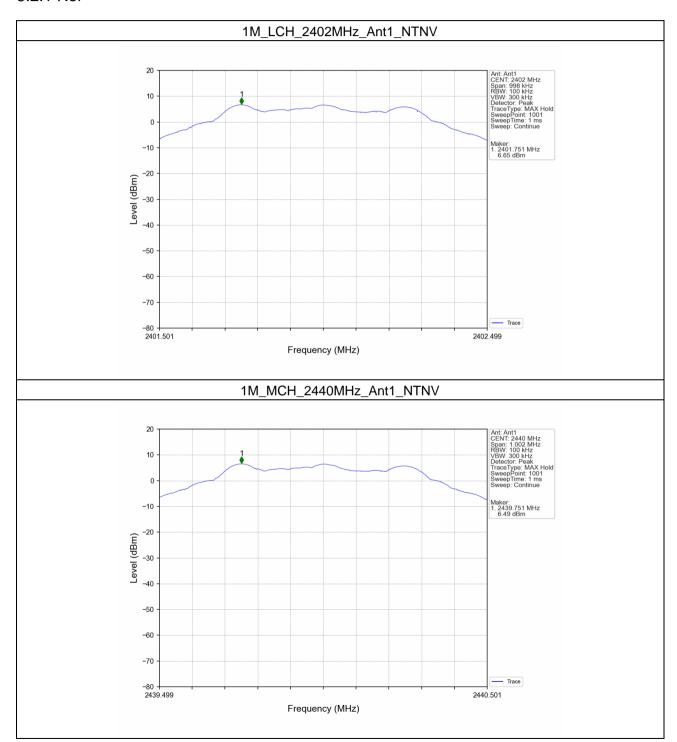
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Report No.: SZCR240900348803

Page: 87 of 118

5.2 Test Graph

5.2.1 Ref





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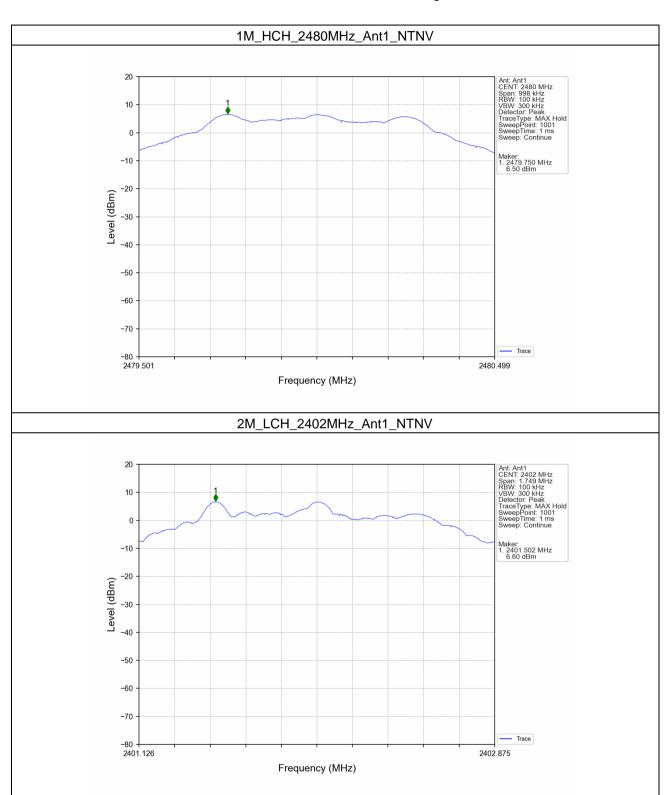
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Report No.: SZCR240900348803

Page: 88 of 118





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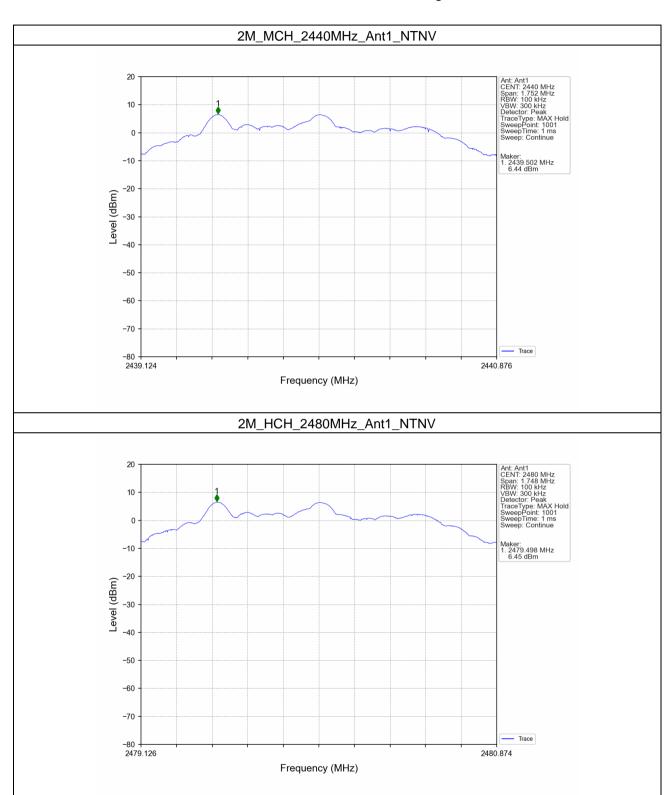
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Report No.: SZCR240900348803

Page: 89 of 118





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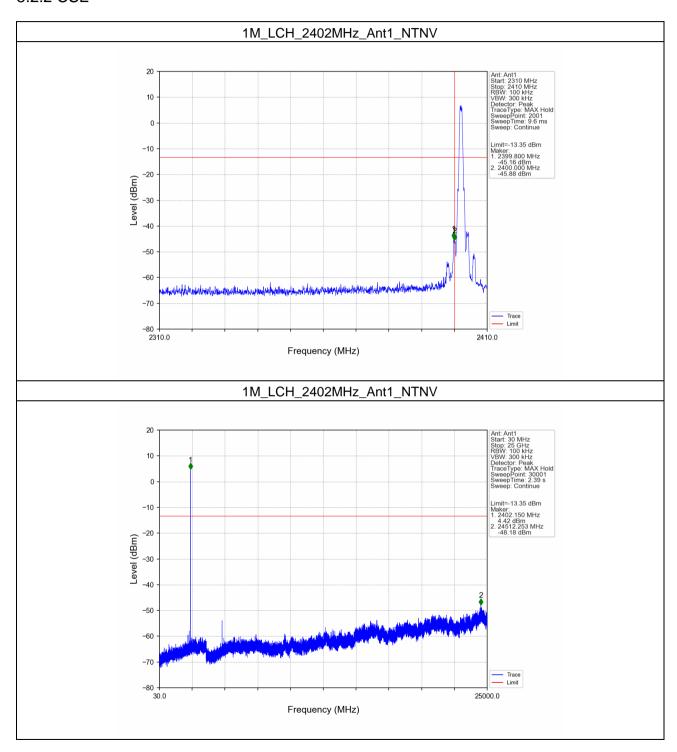


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 90 of 118

5.2.2 CSE





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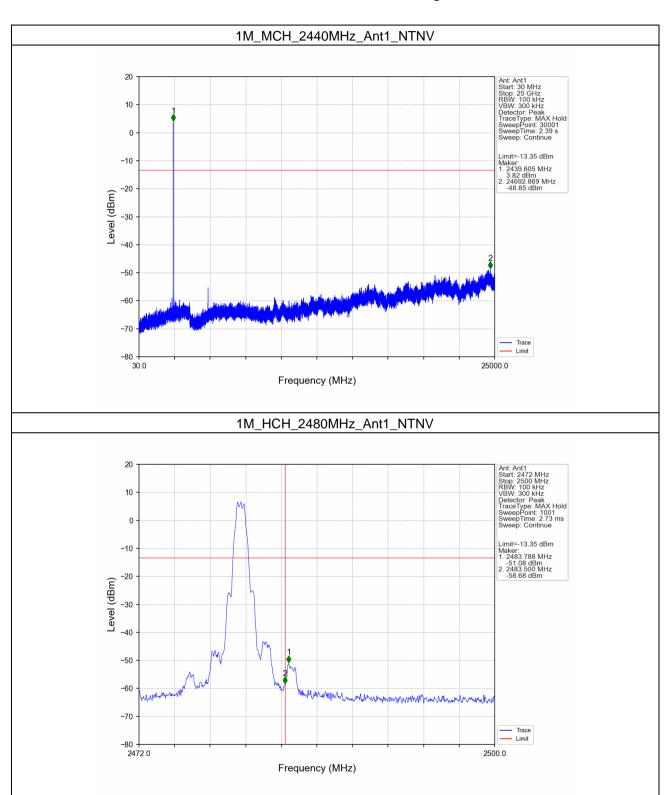
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Report No.: SZCR240900348803

Page: 91 of 118





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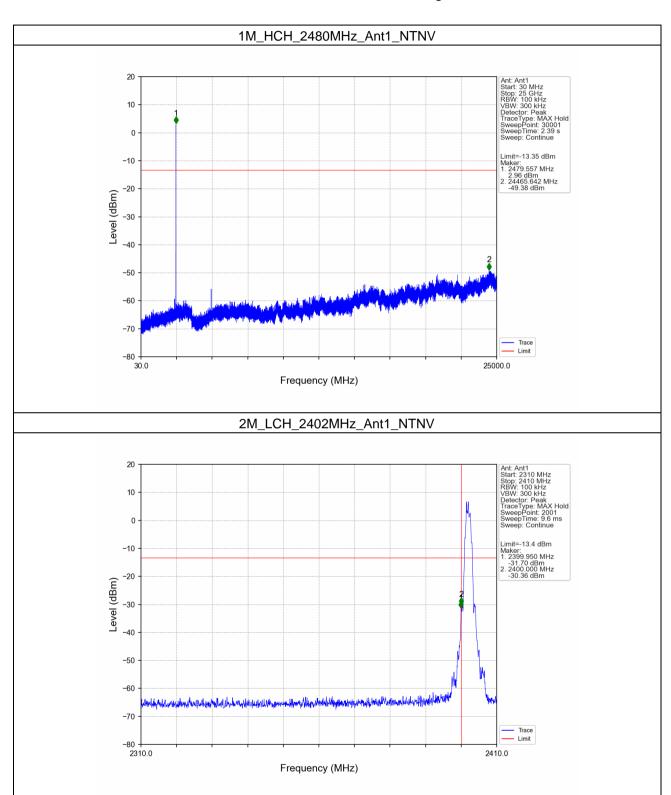
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 92 of 118





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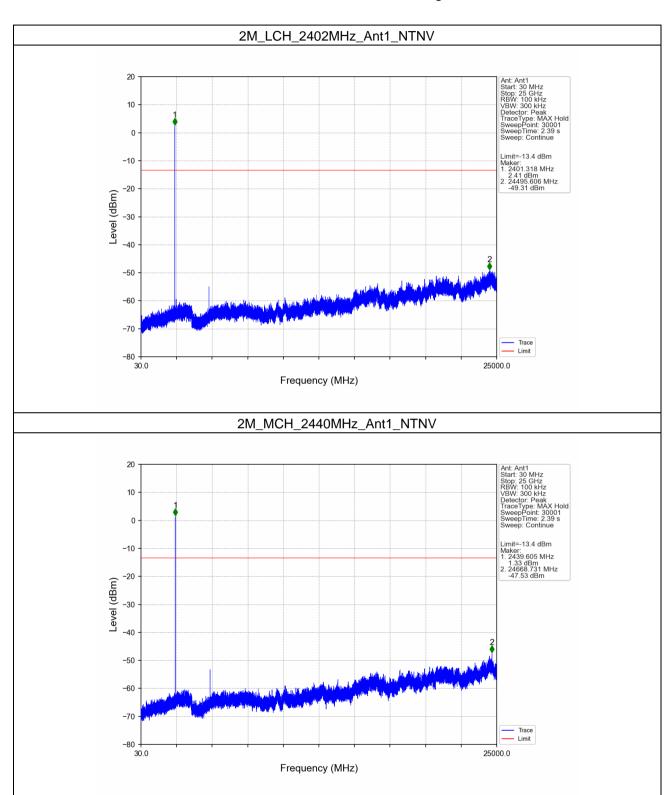
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Report No.: SZCR240900348803

Page: 93 of 118





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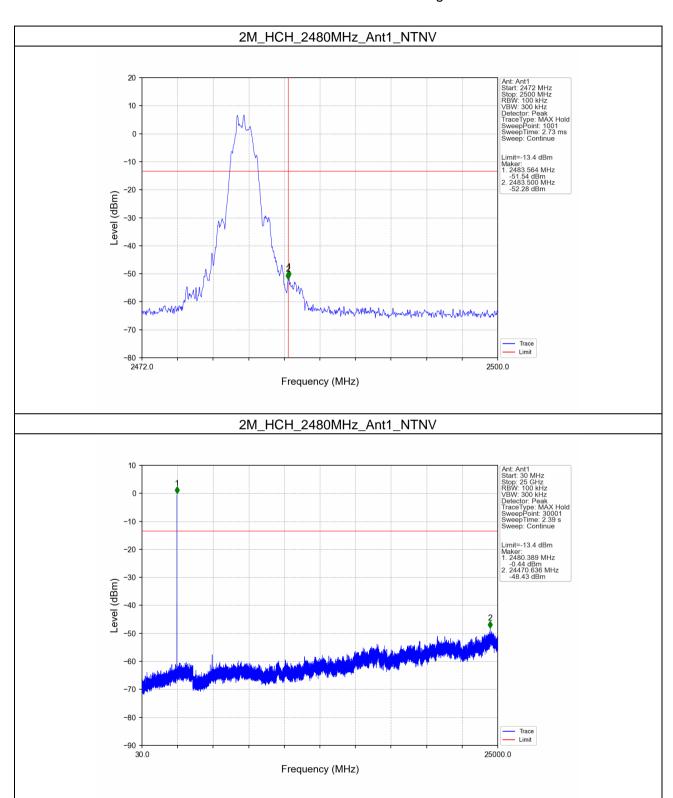
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 94 of 118





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900348803

> Page: 95 of 118

For left earbud:

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

	Ant1								
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)		
		2402	0.408	0.625	65.28	1.85	0.01		
1M	SISO	2440	0.408	0.625	65.28	1.85	0.05		
		2480	0.408	0.625	65.28	1.85	0.00		
		2402	0.224	0.625	35.84	4.46	0.03		
2M	SISO	2440	0.224	0.625	35.84	4.46	0.03		
		2480	0.224	0.625	35.84	4.46	0.02		



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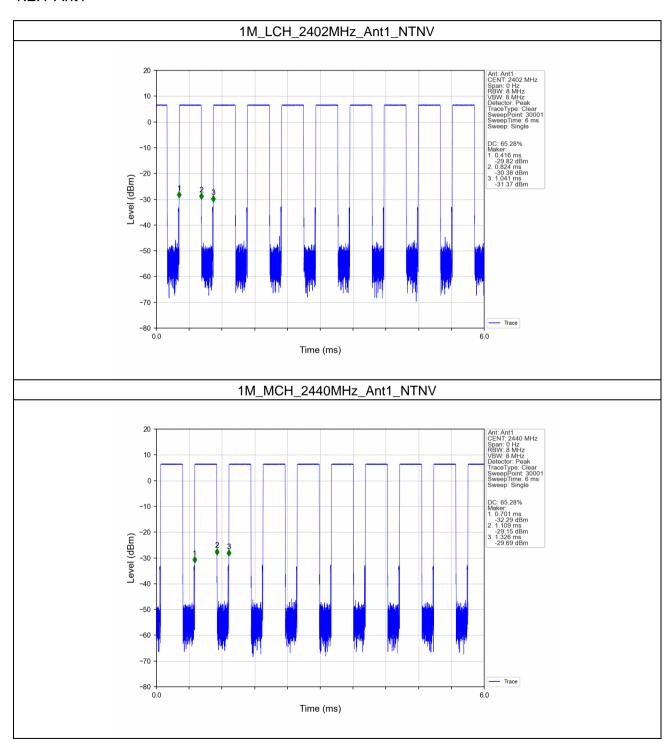
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Report No.: SZCR240900348803

Page: 96 of 118

1.2 Test Graph

1.2.1 Ant1





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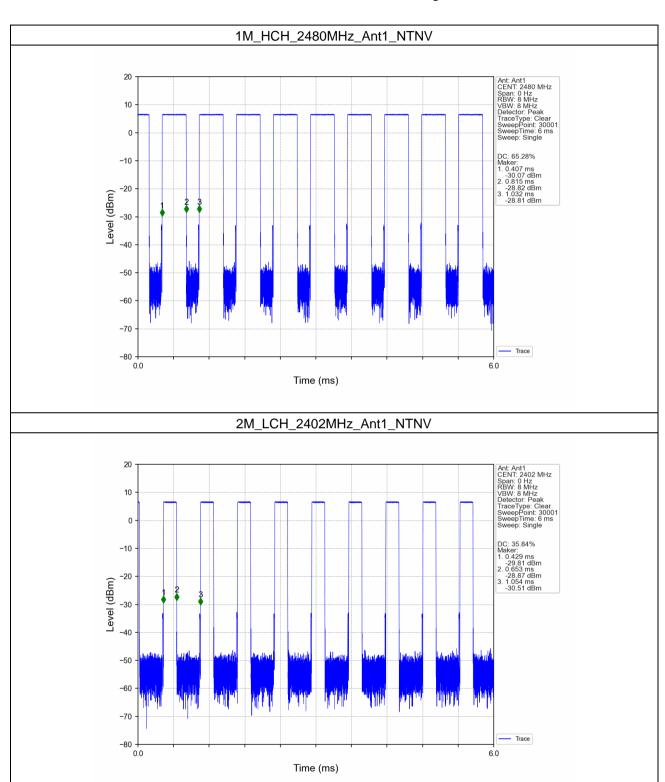
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Report No.: SZCR240900348803

Page: 97 of 118





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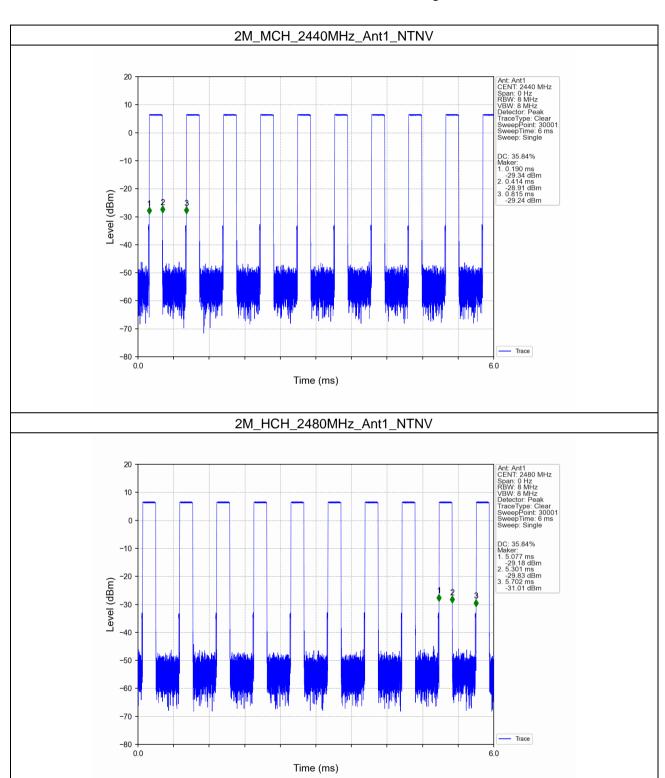
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Report No.: SZCR240900348803

Page: 98 of 118





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900348803

> Page: 99 of 118

2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX	Frequency	ANIT	99% Occupied E	Vordict	
Mode	Туре	(MHz)	ANT	Result	Limit	Verdict
		2402	1	1.016	/	Pass
1M	SISO	2440	1	1.015	/	Pass
		2480	1	1.016	/	Pass
		2402	1	2.006	/	Pass
2M	SISO	2440	1	2.003	/	Pass
		2480	1	2.002	/	Pass

2.1.2 6dB BW

Mode	TX	Frequency	ANT	6dB Bandv	Vordict	
Mode	Туре	(MHz)	ANI	Result	Limit	Verdict
		2402	1	0.662	>=0.5	Pass
1M	SISO	2440	1	0.662	>=0.5	Pass
		2480	1	0.667	>=0.5	Pass
		2402	1	1.164	>=0.5	Pass
2M	SISO	2440	1	1.163	>=0.5	Pass
		2480	1	1.169	>=0.5	Pass



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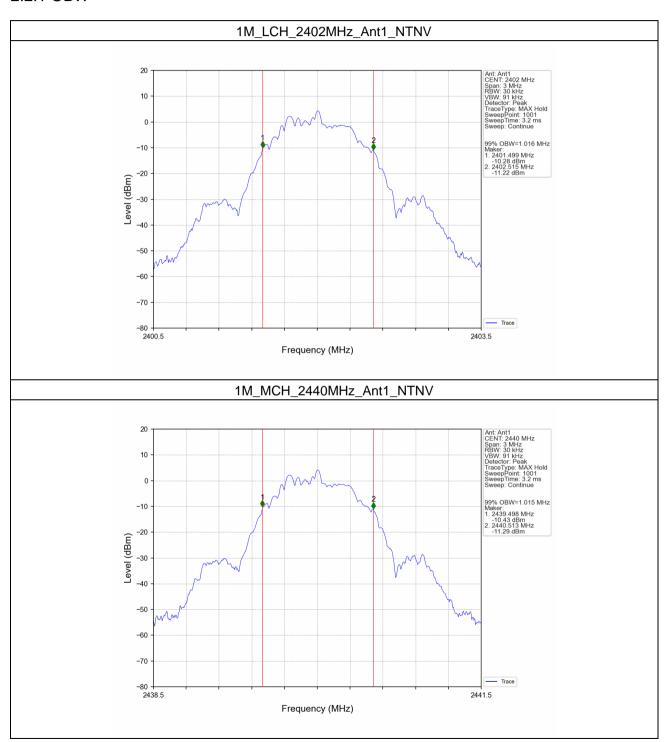
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Report No.: SZCR240900348803

Page: 100 of 118

2.2 Test Graph

2.2.1 OBW





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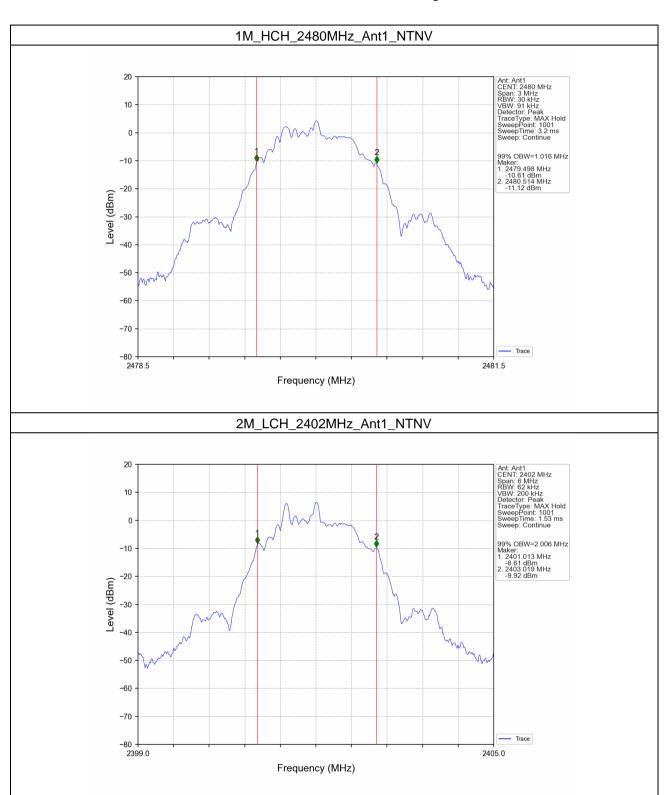
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Page: 101 of 118





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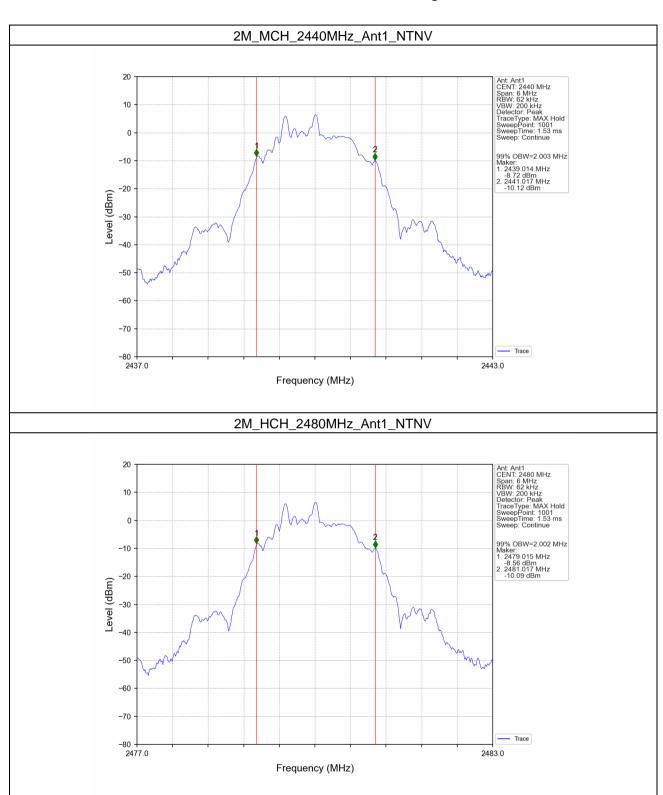
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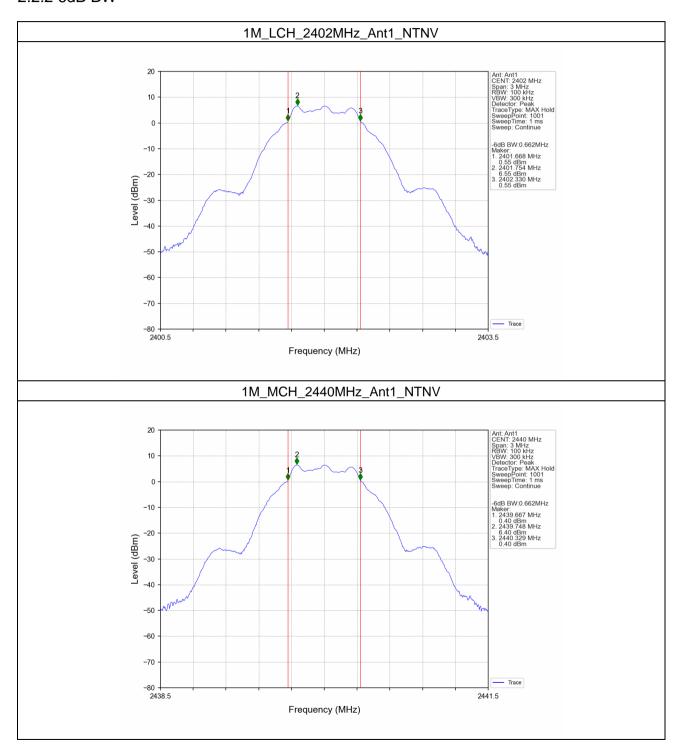


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Report No.: SZCR240900348803

Page: 103 of 118

2.2.2 6dB BW





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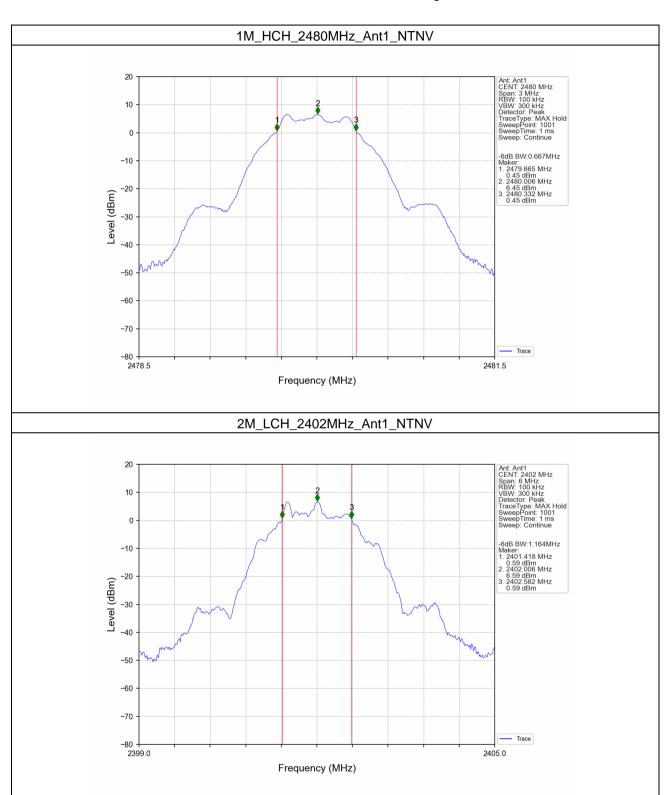
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Report No.: SZCR240900348803

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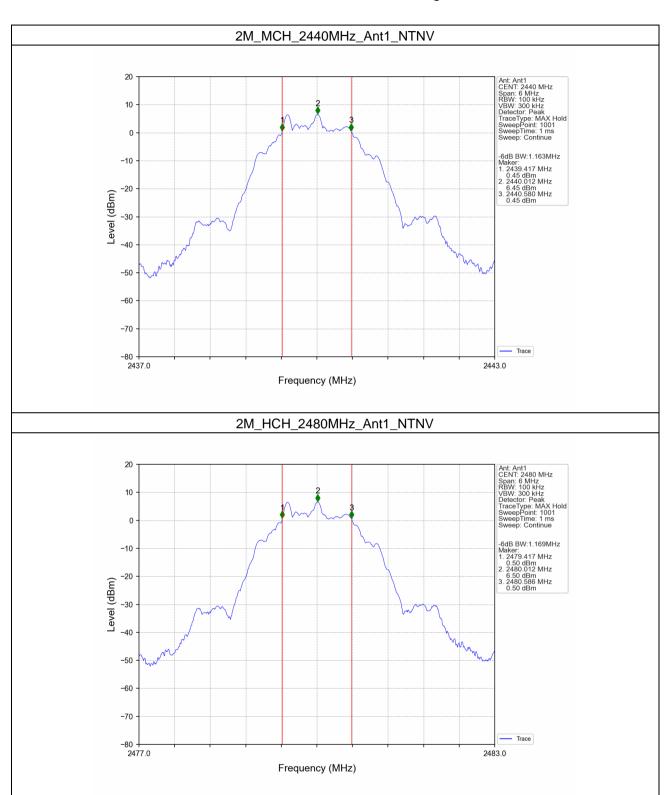
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Report No.: SZCR240900348803

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 106 of 118

3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mada	TX	Frequency	Maximum Peak Conduct	ted Output Power (dBm)	Verdict
Mode	Type	(MHz)	ANT1	Limit	verdict
		2402	6.60	<=30	Pass
1M	SISO	2440	6.44	<=30	Pass
		2480	6.51	<=30	Pass
		2402	6.58	<=30	Pass
2M	SISO	2440	6.44	<=30	Pass
		2480	6.49	<=30	Pass
Note1: Antei	nna Gain: Ant	1· 1 44dBi·			

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mada	TX	Frequency	Maximum PS	Verdict	
Mode	Type	(MHz)	ANT1	Limit	verdict
		2402	-8.93	<=8	Pass
1M	SISO	2440	-9.04	<=8	Pass
		2480	-8.98	<=8	Pass
		2402	-11.56	<=8	Pass
2M	SISO	2440	-11.82	<=8	Pass
		2480	-11.80	<=8	Pass



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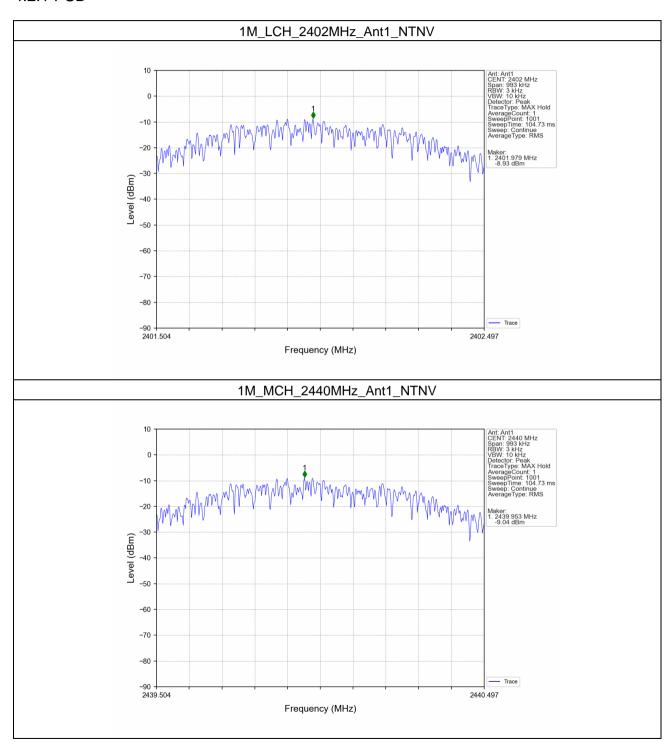
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Report No.: SZCR240900348803

Page: 107 of 118

4.2 Test Graph

4.2.1 PSD





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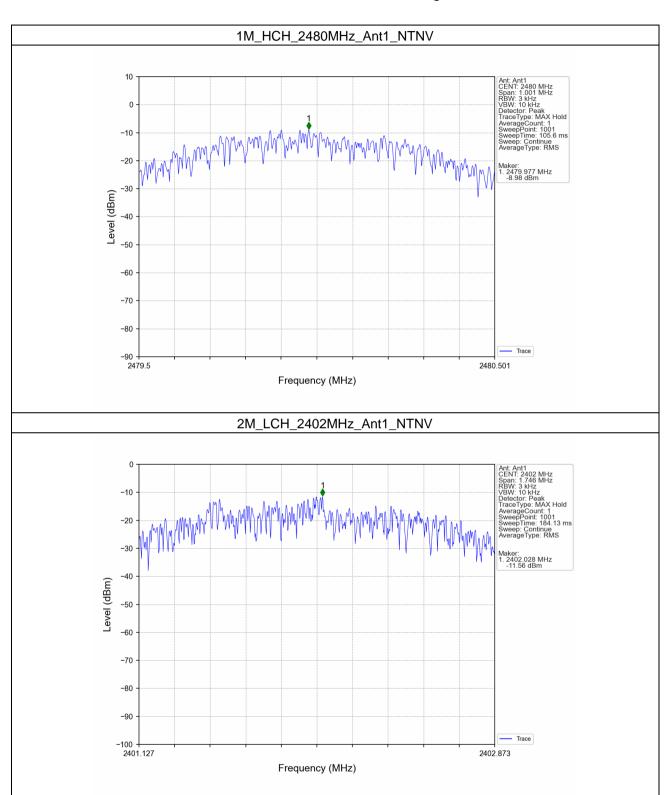
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Report No.: SZCR240900348803

Page: 108 of 118





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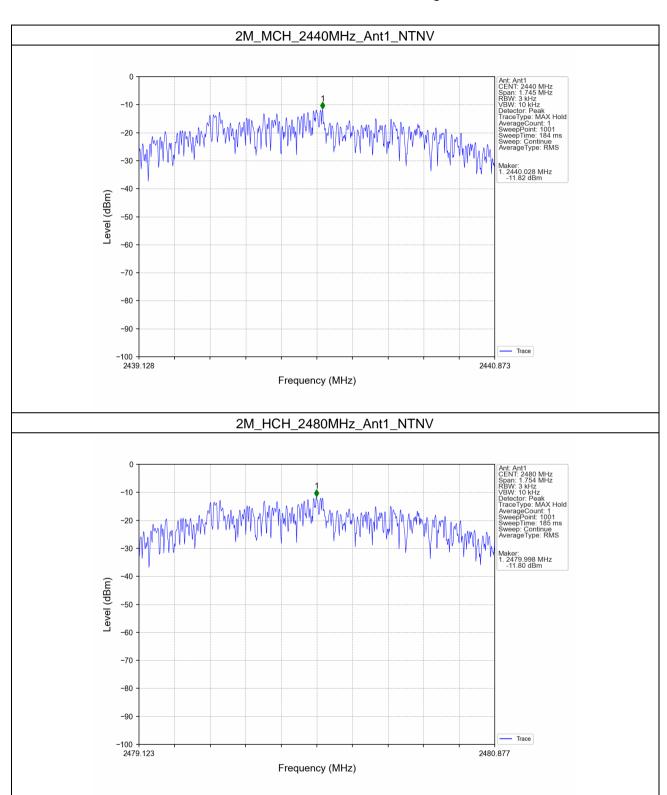
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 109 of 118





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 110 of 118

Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2402	1	6.54
1M	SISO	2440	1	6.39
		2480	1	6.45
		2402	1	6.50
2M	SISO	2440	1	6.36
		2480	1	6.42

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	6.54	-13.46	Pass
		2440	1	6.54	-13.46	Pass
		2480	1	6.54	-13.46	Pass
2M	SISO	2402	1	6.50	-13.50	Pass
		2440	1	6.50	-13.50	Pass
		2480	1	6.50	-13.50	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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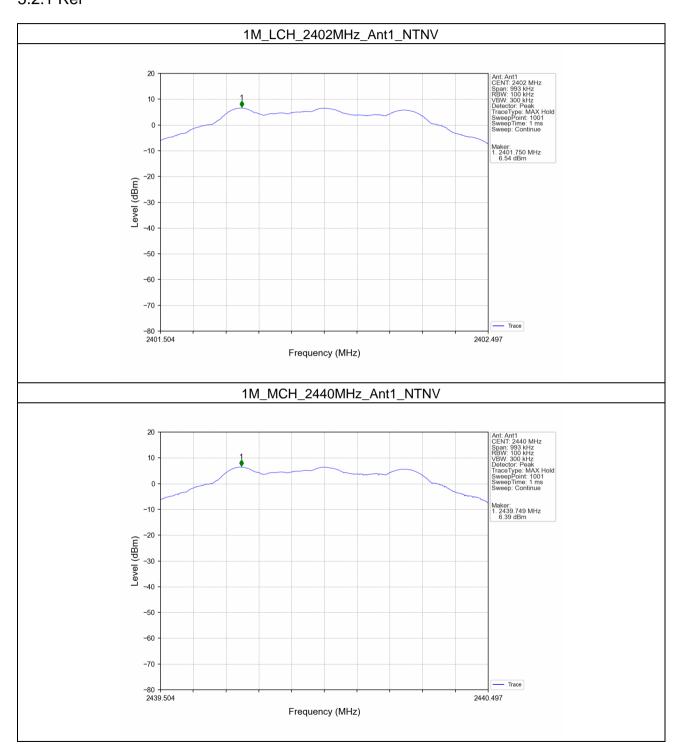
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Report No.: SZCR240900348803

Page: 111 of 118

5.2 Test Graph

5.2.1 Ref





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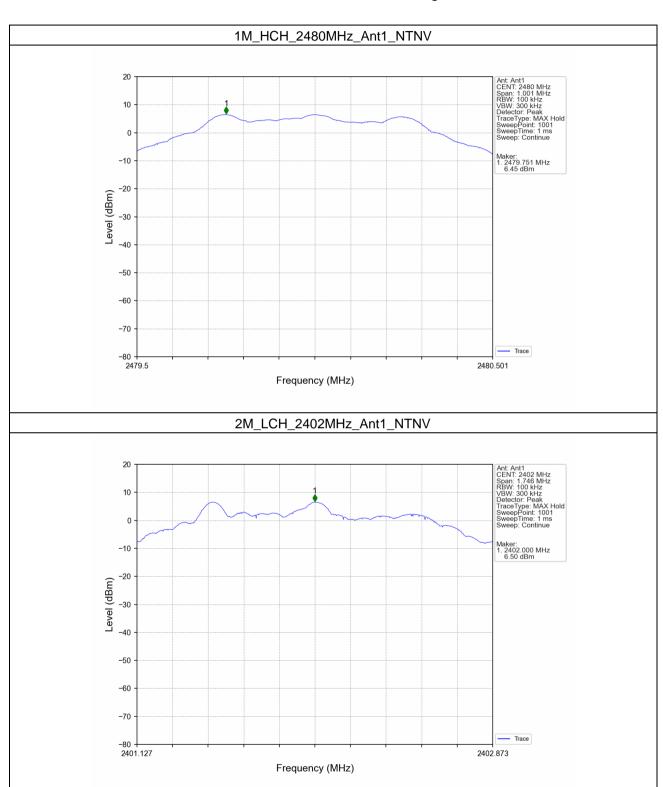
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Report No.: SZCR240900348803

Page: 112 of 118





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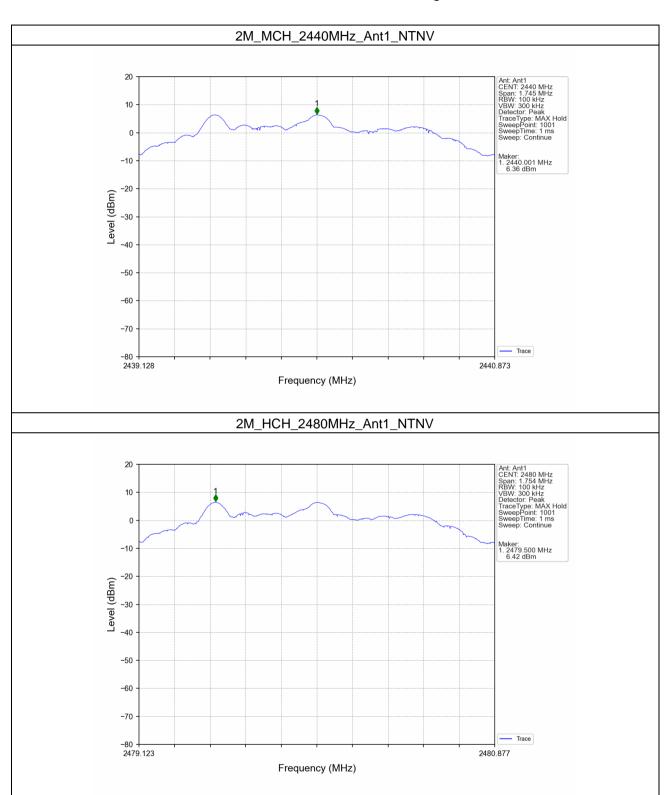
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 113 of 118





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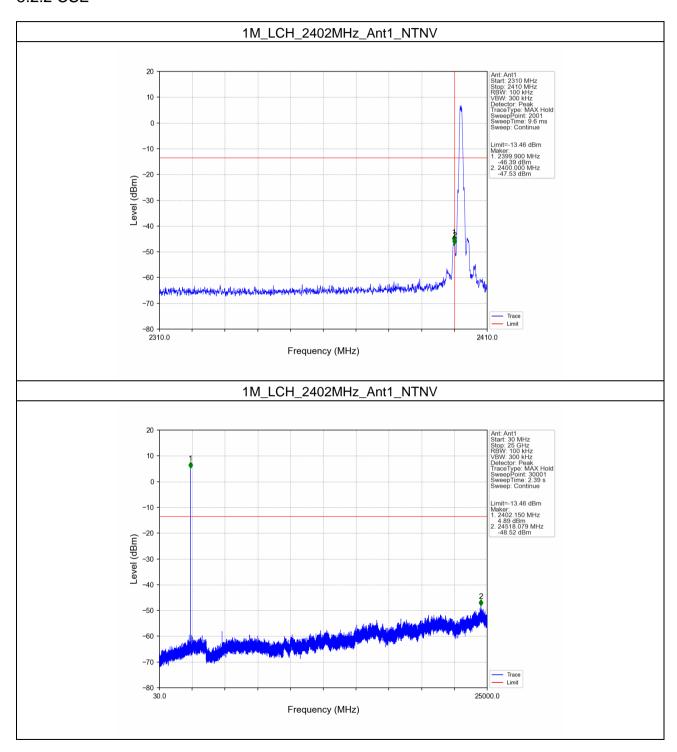


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348803

Page: 114 of 118

5.2.2 CSE





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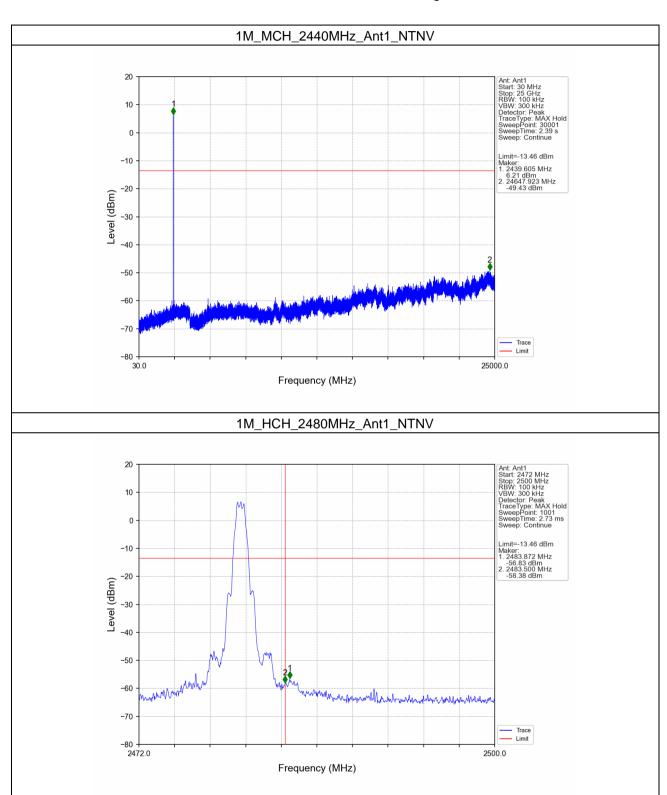
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Report No.: SZCR240900348803

Page: 115 of 118





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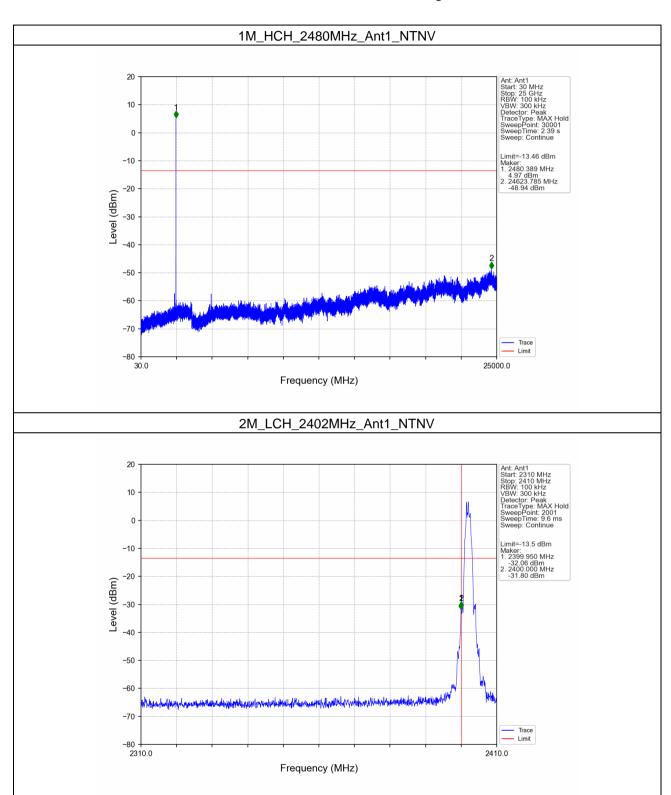
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Report No.: SZCR240900348803

Page: 116 of 118





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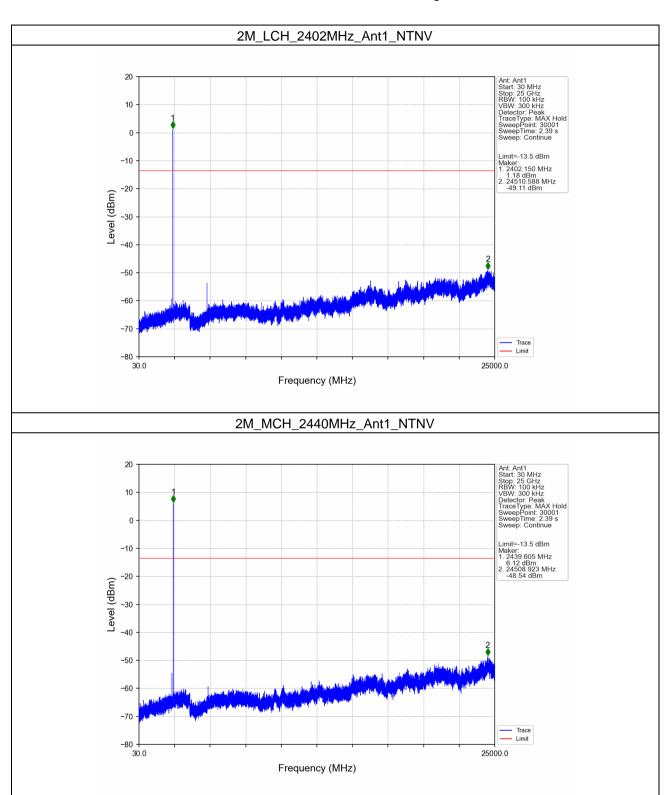
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Report No.: SZCR240900348803

Page: 117 of 118





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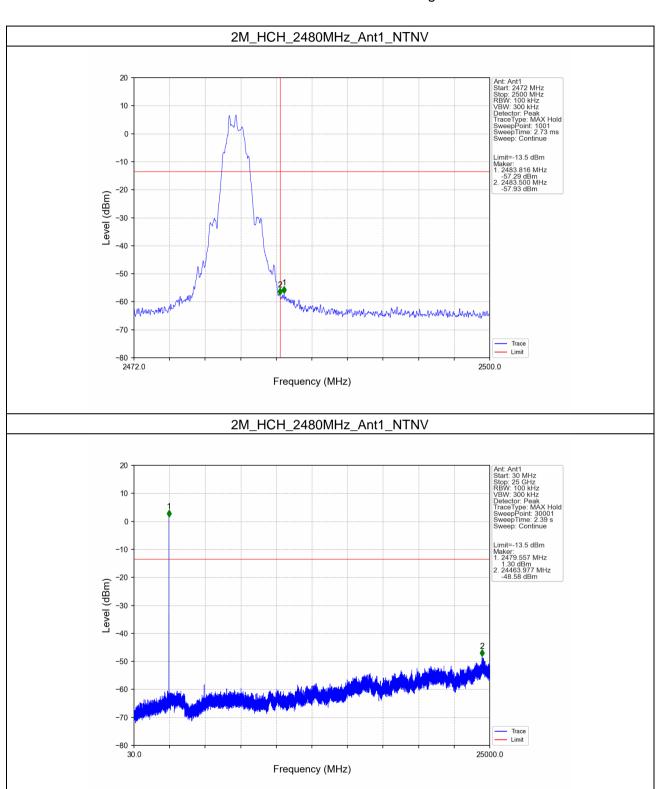
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