

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR230900322303

> Page: 1 of 61

TEST REPORT

Application No.: SZCR2309003223AT Applicant: Cosmo Technologies, Inc.

Address of Applicant: 747 Grape St, Denver, Colorado 80220 United States

Manufacturer: Shenzhen Qinmi Smart Technology Co., Ltd.

Address of Manufacturer: 4rd floor, Building 09, Tongfuyu Industrial Park, Lezhujiao Village, Xixiang,

Baoan, Shenzhen

Equipment Under Test (EUT):

EUT Name: COSMO JrTrack Kids Smartwatch

Model No.: JRTV3 **Trade Mark: JrTrack**

FCC ID: 2A3RL-JRTRACK03

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

Date of Receipt: 2023-09-28

Date of Test: 2023-10-12 to 2023-10-18

2023-11-02 Date of Issue:

Pass* Test Result:

Keny Xu **EMC Laboratory Manager**

Ceny. Ku



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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 2 of 61

	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2023-11-02		Original			

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



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 3 of 61

2 **Test Summary**

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

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass	
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass	
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass	
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass	
Conducted Band Edges Measurement	47 CFR Part 15,	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Conducted Spurious Emissions	Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 4 of 61

Contents

		Pa	age
1	Cover	Page	1
2	Test S	ummary	
3	Conte	nts	4
4	Genera	al Information	6
	4.1 D	Petails of E.U.T.	F
		Description of Support Units	
		leasurement Uncertainty	
		est Location	
		est Facility	
		Peviation from Standards	
	4.7 A	bnormalities from Standard Conditions	7
5	Fauin	ment List	۶
_	_quipi		
6	Radio	Spectrum Technical Requirement	11
	6.1 A	ntenna Requirement	11
	6.1.1	Test Requirement:	
	6.1.2	Conclusion	11
7	Radio	Spectrum Matter Test Results	12
•			
		Conducted Emissions at AC Power Line (150kHz-30MHz)	
	7.1.1 7.1.2	E.U.T. Operation Test Mode Description	
	7.1.2 7.1.3	Test Setup Diagram	
	7.1.3 7.1.4	Measurement Procedure and Data	
		Conducted Peak Output Power	
	7.2.1	E.U.T. Operation	
	7.2.1	Test Setup Diagram	
	7.2.3	Measurement Procedure and Data	
		finimum 6dB Bandwidth	
	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 P	ower Spectrum Density	19
	7.4.1	E.U.T. Operation	19
	7.4.2	Test Mode Description	19
	7.4.3	Test Setup Diagram	
	7.4.4	Measurement Procedure and Data	
		Conducted Band Edges Measurement	
	7.5.1	E.U.T. Operation	
	7.5.2	Test Mode Description	20



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 5 of 61

7.	5.3 Test Setup Diagram	20
7.	5.4 Measurement Procedure and Data	21
7.6	Conducted Spurious Emissions	22
7.	6.1 E.U.T. Operation	22
7.	6.2 Test Mode Description	22
7.	6.3 Test Setup Diagram	22
7.	6.4 Measurement Procedure and Data	22
7.7	Radiated Emissions which fall in the restricted bands	23
7.	7.1 E.U.T. Operation	23
7.	7.2 Test Mode Description	23
7.	7.3 Test Setup Diagram	24
7.	7.4 Measurement Procedure and Data	24
7.8	Radiated Spurious Emissions Below 1GHz	29
7.	8.1 E.U.T. Operation	29
7.	8.2 Test Mode Description	29
7.	8.3 Test Setup Diagram	
7.	8.4 Measurement Procedure and Data	30
7.9	Radiated Spurious Emissions Above 1GHz	33
7.	9.1 E.U.T. Operation	33
7.	9.2 Test Mode Description	33
7.	9.3 Test Setup Diagram	
7.	9.4 Measurement Procedure and Data	34
8 Te	est Setup Photo	41
9 El	UT Constructional Details (EUT Photos)	41
40 4.	ppendix	4.
10 Aı	DDEHUIX	4/



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 6 of 61

General Information

Details of E.U.T. 4.1

Power supply:	DC3.8V by li-ion battery(680mAh)
	Battery M/N:602831
	Battery Manufacturer:Shenzhen Ruiyixin Energy Co., Ltd.
	Recharged Input: DC5V from USB port
Cable(s):	USB cable: 0.5m unshielded cable without ferrite core
Cable Loss (for RF conducted test):	0.5dBi
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 Dual mode
Data Rate:	1Mbps
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	-1dBi

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
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR230900322303

> Page: 7 of 61

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.: SZCR230900322303

Page: 8 of 61

5 **Equipment List**

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

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

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

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



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 9 of 61

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

Radiated Emissions which fall in the restricted bands							
Equipment	Manufacturer	Manufacturer Model No.		Cal Date	Cal Due Date		
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31		
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19		
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22		
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06		
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09		
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19		

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2022-10-20	2023-10-19
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 10 of 61

Radiated Spurious Emissions Above 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22	
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06	
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19	

General used equipmen	t				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR230900322303

> Page: 11 of 61

Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

15.203 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.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -1dBi.

Antenna location: Refer to internal photos



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> Page: 12 of 61

Radio Spectrum Matter Test Results 7

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

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

Limit:

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 47.3 % RH Atmospheric Pressure: 1000 mbar

7.1.2 Test Mode Description

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



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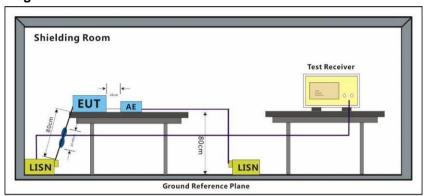
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> Page: 13 of 61

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

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



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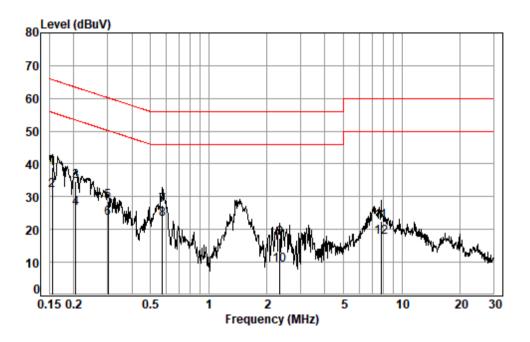


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 14 of 61

Test Mode: 05; Line: Live line



: Shielding Room

Condition: Line Job No. : 03223AT

Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
•	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1548	0.02	11.13	27.75	38.90	65.74	-26.84	QP
2	0.1548	0.02	11.13	20.70	31.85	55.74	-23.89	Average
3	0.2050	0.02	10.74	23.97	34.73	63.40	-28.67	QP
4	0.2050	0.02	10.74	15.75	26.51	53.40	-26.89	Average
5	0.3019	0.03	10.77	17.73	28.53	60.19	-31.66	QP
6	0.3019	0.03	10.77	12.47	23.27	50.19	-26.92	Average
7	0.5762	0.04	10.83	16.37	27.24	56.00	-28.76	QP
8 *	0.5762	0.04	10.83	12.27	23.14	46.00	-22.86	Average
9	2.3336	0.07	10.66	6.57	17.30	56.00	-38.70	QP
10	2.3336	0.07	10.66	-1.59	9.14	46.00	-36.86	Average
11	7.8102	0.13	11.13	11.18	22.44	60.00	-37.56	QP
12	7.8102	0.13	11.13	6.24	17.50	50.00	-32.50	Average



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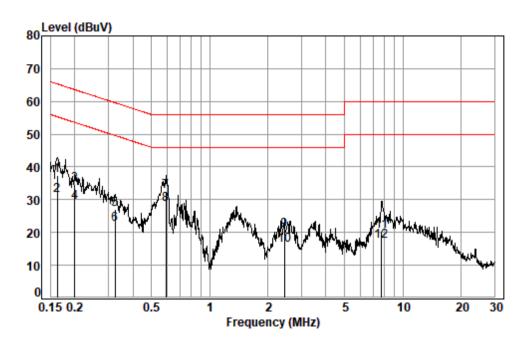


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 15 of 61

Test Mode: 05; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 03223AT

Test mode: 05

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1624	0.02	10.83	26.59	37.44	65.34	-27.90	QP
2	0.1624	0.02	10.83	20.57	31.42	55.34	-23.92	Average
3	0.2007	0.02	10.83	23.81	34.66	63.58	-28.92	QP
4	0.2007	0.02	10.83	18.32	29.17	53.58	-24.41	Average
5	0.3234	0.03	10.63	16.34	27.00	59.62	-32.62	QP
6	0.3234	0.03	10.63	11.84	22.50	49.62	-27.12	Average
7 *	0.5948	0.04	10.52	21.89	32.45	56.00	-23.55	QP
8 *	0.5948	0.04	10.52	17.95	28.51	46.00	-17.49	Average
9	2.4346	0.07	10.87	9.89	20.83	56.00	-35.17	QP
10	2.4346	0.07	10.87	5.32	16.26	46.00	-29.74	Average
11	7.7689	0.13	10.97	9.23	20.33	60.00	-39.67	QP
12	7.7689	0.13	10.97	6.13	17.23	50.00	-32.77	Average



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Report No.: SZCR230900322303

Page: 16 of 61

7.2 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		

7.2.1 E.U.T. Operation

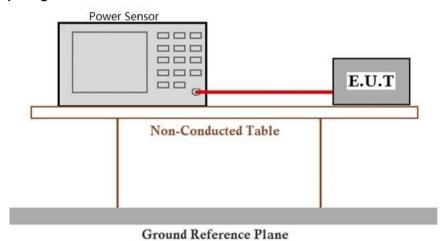
Operating Environment:

Temperature: 24.0 °C Humidity: 44.0 % RH Atmospheric Pressure: 1000 mbar

7.2.2 Test Mode Description

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

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data



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> Page: 17 of 61

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 18 of 61

7.3 Minimum 6dB Bandwidth

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

Limit:

≥500 kHz

7.3.1 E.U.T. Operation

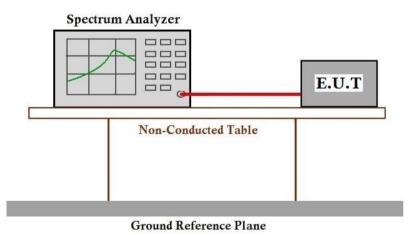
Operating Environment:

Atmospheric Pressure: 1000 mbar Temperature: 24.0 °C Humidity: 44.0 % RH

7.3.2 Test Mode Description

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

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: SZCR230900322303

Page: 19 of 61

7.4 Power Spectrum Density

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

Limit:

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

7.4.1 E.U.T. Operation

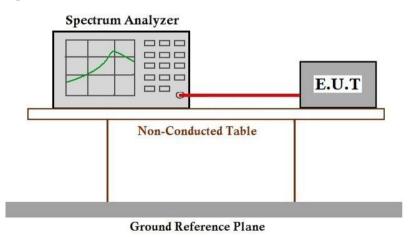
Operating Environment:

Temperature: 24.0 °C Humidity: 44.0 % RH Atmospheric Pressure: 1000 mbar

7.4.2 Test Mode Description

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

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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> Page: 20 of 61

7.5 Conducted Band Edges Measurement

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

Limit:

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

7.5.1 E.U.T. Operation

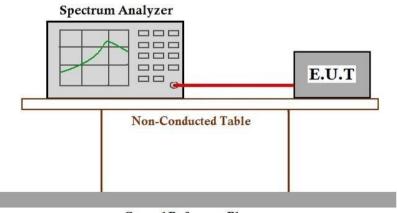
Operating Environment:

Temperature: 24.0 °C Humidity: 44.0 % RH Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

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

7.5.3 Test Setup Diagram







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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR230900322303

> Page: 21 of 61

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.: SZCR230900322303

> Page: 22 of 61

7.6 Conducted Spurious Emissions

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

Limit:

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

7.6.1 E.U.T. Operation

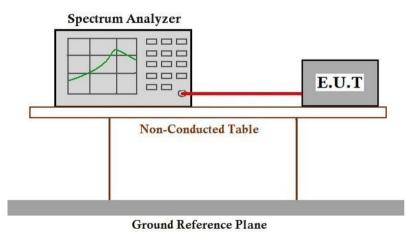
Operating Environment:

24.0 °C Atmospheric Pressure: 1000 mbar Temperature: Humidity: 44.0 % RH

7.6.2 Test Mode Description

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

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR230900322303

> Page: 23 of 61

7.7 Radiated Emissions which fall in the restricted bands

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

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

Measurement Distance: 3m

Limit:

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

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 53.5 % RH Atmospheric Pressure: 1000 mbar

7.7.2 Test Mode Description

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



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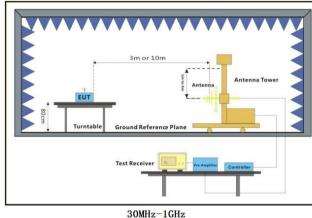
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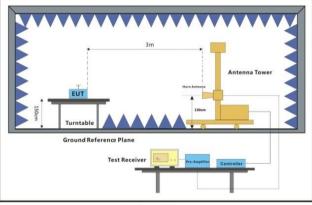


SZEMC-TRF-01 Rev. A/1 Report No.: SZCR230900322303

> Page: 24 of 61

7.7.3 Test Setup Diagram





Above 1GHz

7.7.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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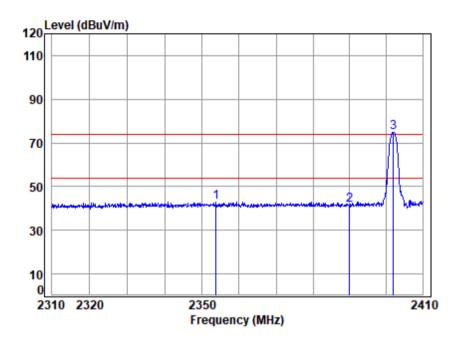


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 25 of 61

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



Site : chamber

Condition: 3m HORIZONTAL

: 03223AT Job No

Mode : 2402 Band edge

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2353.778	5.04	29.10	37.52	46.34	42.96	74.00	-31.04	peak
2	2390.000	5.08	29.10	37.44	44.90	41.64	74.00	-32.36	peak
3	q 2402.000	5.09	29.09	37.41	77.89	74.66	74.00	0.66	peak



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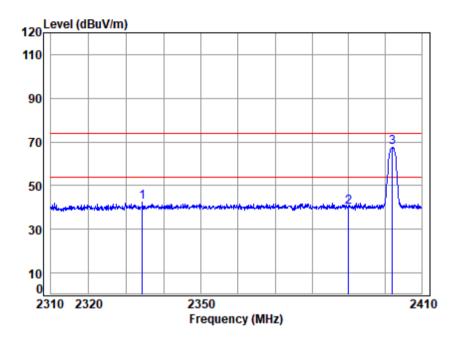


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 26 of 61

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



Site : chamber

Condition: 3m VERTICAL

Job No : 03223AT

: 2402 Band edge Mode

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2334.307	5.02	28.88	37.57	45.88	42.21	74.00	-31.79	peak
2	2390.000	5.08	29.10	37.44	43.63	40.37	74.00	-33.63	peak
3 q	2402.000	5.09	29.09	37.41	70.68	67.45	74.00	-6.55	peak



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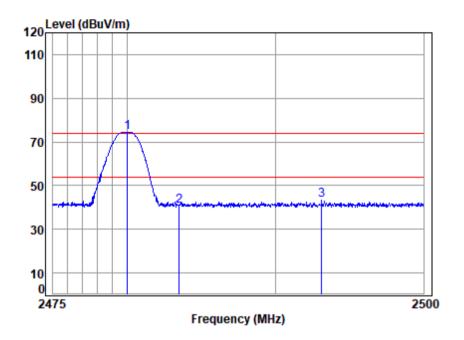


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 27 of 61

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03223AT

Mode : 2480 Band edge

Note : BLE

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2480.000	5.16	28.90	37.22	77.66	74.50	74.00	0.50	peak
2	2483.500	5.16	28.90	37.22	43.76	40.60	74.00	-33.40	peak
3	2493.100	5.17	28.90	37.19	46.33	43.21	74.00	-30.79	peak



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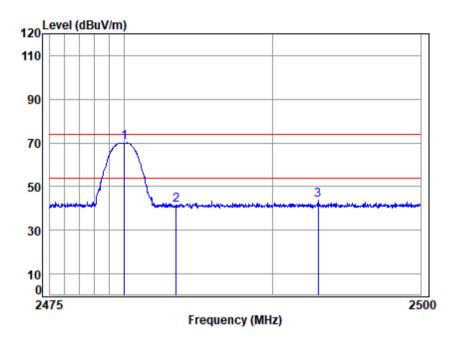


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 28 of 61

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



Site : chamber

Condition: 3m VERTICAL

Job No : 03223AT

Mode : 2480 Band edge

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2480.000	5.16	28.90	37.22	73.21	70.05	74.00	-3.95	peak
2	2483.500	5.16	28.90	37.22	44.52	41.36	74.00	-32.64	peak
3	2493.075	5.17	28.90	37.19	46.80	43.68	74.00	-30.32	peak



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 29 of 61

7.8 Radiated Spurious Emissions Below 1GHz

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

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

Measurement Distance: 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

7.8.1 E.U.T. Operation

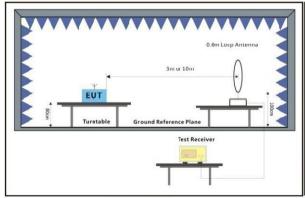
Operating Environment:

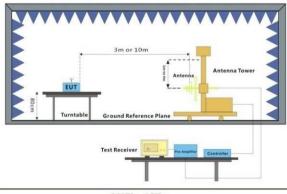
23.2 °C Temperature: Humidity: 45.8 % RH Atmospheric Pressure: 1000 mbar

7.8.2 Test Mode Description

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

7.8.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR230900322303

> Page: 30 of 61

7.8.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- a. Test the EUT in the lowest channel, the middle channel, the Highest channel,
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

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



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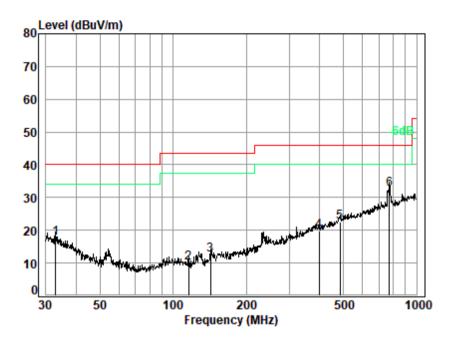


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 31 of 61

Test Mode: 05; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 03223AT

Test Mode: 05

		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	32.98	19.86	0.67	27.80	24.86	17.59	40.00	-22.41	QP
2	115.73	11.35	1.27	27.55	24.82	9.89	43.50	-33.61	QP
3	142.32	12.07	1.42	27.46	26.38	12.41	43.50	-31.09	QP
4	397.63	20.67	2.54	27.33	24.03	19.91	46.00	-26.09	QP
5	485.61	22.88	2.84	27.72	24.62	22.62	46.00	-23.38	QP
6 a	774.16	26.81	3.75	27.69	29.81	32.68	46.00	-13.32	OP



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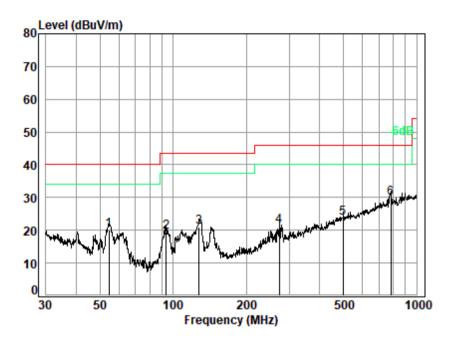


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 32 of 61

Test Mode: 05; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 03223AT

Test Mode: 05

		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	54.45	12.07	0.87	27.74	34.88	20.08	40.00	-19.92	QP
2	93.44	12.00	1.15	27.63	34.06	19.58	43.50	-23.92	QP
3	128.11	10.98	1.34	27.51	36.28	21.09	43.50	-22.41	QP
4	273.23	17.11	2.05	26.99	29.15	21.32	46.00	-24.68	QP
5	499.42	22.90	2.89	27.78	25.62	23.63	46.00	-22.37	QP
6 q	782.35	27.07	3.77	27.66	26.64	29.82	46.00	-16.18	OP



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 33 of 61

7.9 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

Limit:

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

7.9.1 E.U.T. Operation

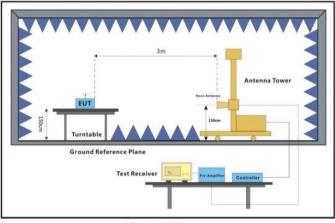
Operating Environment:

Temperature: 22.3 °C Humidity: 53.5 % RH Atmospheric Pressure: 1000 mbar

7.9.2 Test Mode Description

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

7.9.3 Test Setup Diagram



Above 1GHz



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR230900322303

> Page: 34 of 61

7.9.4 Measurement Procedure and Data

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

Remark:

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



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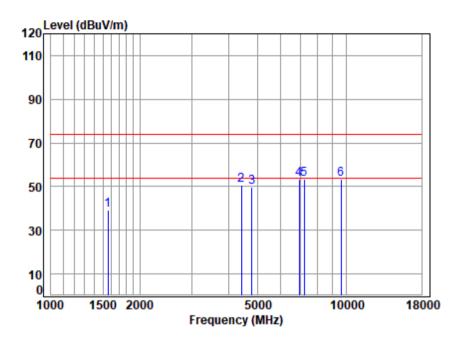


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 35 of 61

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03223AT

Mode : 2402 TX RSE

: BLE

		Freq			Preamp Factor			Limit Line		Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1560.673	4.15	26.96	38.40	46.39	39.10	74.00	-34.90	peak
2		4417.841	7.07	34.59	35.78	44.60	50.48	74.00	-23.52	peak
3		4804.000	7.31	34.32	35.52	43.83	49.94	74.00	-24.06	peak
4		6934.778	8.87	35.74	35.53	44.36	53.44	74.00	-20.56	peak
5	q	7206.000	9.18	35.70	35.79	44.46	53.55	74.00	-20.45	peak
6	Ī	9608.000	12.36	37.42	37.46	40.92	53.24	74.00	-20.76	peak



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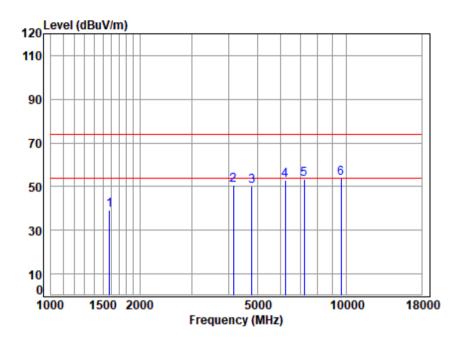


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 36 of 61

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



Site : chamber

Condition: 3m VERTICAL

Job No : 03223AT

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	1578.822	4.17	26.88	38.40	46.72	39.37	74.00	-34.63	peak
2	4145.664	6.88	33.73	35.99	46.20	50.82	74.00	-23.18	peak
3	4804.000	7.31	34.32	35.52	44.14	50.25	74.00	-23.75	peak
4	6231.427	8.35	34.83	35.06	44.86	52.98	74.00	-21.02	peak
5	7206.000	9.18	35.70	35.79	44.37	53.46	74.00	-20.54	peak
6	q 9608.000	12.36	37.42	37.46	41.32	53.64	74.00	-20.36	peak



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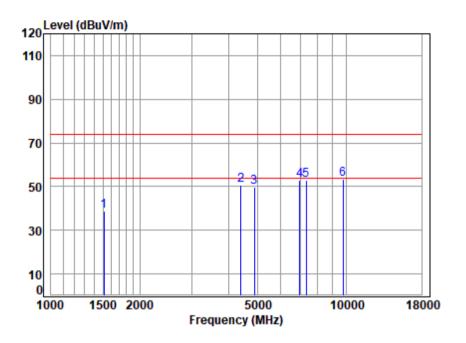


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 37 of 61

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03223AT

Mode : 2440 TX RSE

: BLE

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1511.833	4.08	26.85	38.39	46.11	38.65	74.00	-35.35	peak
2		4405.090	7.06	34.74	35.79	44.85	50.86	74.00	-23.14	peak
3		4880.000	7.36	34.62	35.47	43.02	49.53	74.00	-24.47	peak
4		6954.852	8.89	35.79	35.54	43.85	52.99	74.00	-21.01	peak
5		7320.000	9.32	35.70	35.90	43.59	52.71	74.00	-21.29	peak
6	a	9760.000	12.47	37.38	37.43	40.75	53.17	74.00	-20.83	peak



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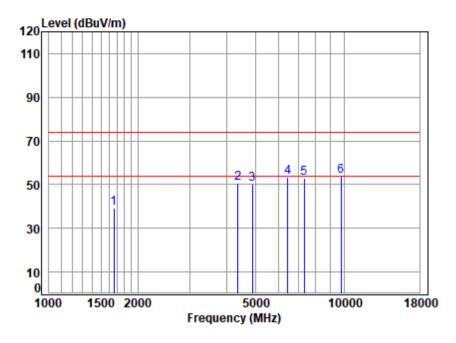


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 38 of 61

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



Site : chamber

Condition: 3m VERTICAL

Job No : 03223AT

Mode : 2440 TX RSE

: BLE

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1663.137	4.28	26.27	38.41	47.13	39.27	74.00	-34.73	peak
2		4367.058	7.04	34.54	35.82	44.75	50.51	74.00	-23.49	peak
3		4880.000	7.36	34.62	35.47	43.78	50.29	74.00	-23.71	peak
4		6451.353	8.52	35.50	35.22	44.66	53.46	74.00	-20.54	peak
5		7320.000	9.32	35.70	35.90	43.78	52.90	74.00	-21.10	peak
6	q	9760.000	12.47	37.38	37.43	41.27	53.69	74.00	-20.31	peak



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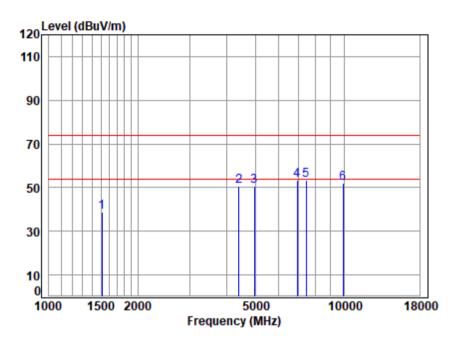


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 39 of 61

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03223AT

Mode : 2480 TX RSE

: BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1511.833	4.08	26.85	38.39	46.15	38.69	74.00	-35.31	peak
2	4405.090	7.06	34.74	35.79	44.74	50.75	74.00	-23.25	peak
3	4960.000	7.41	34.56	35.42	44.19	50.74	74.00	-23.26	peak
4	6934.778	8.87	35.74	35.53	44.31	53.39	74.00	-20.61	peak
5	q 7440.000	9.46	35.96	36.02	44.18	53.58	74.00	-20.42	peak
6	9920.000	12.58	37.30	37.39	39.63	52.12	74.00	-21.88	peak



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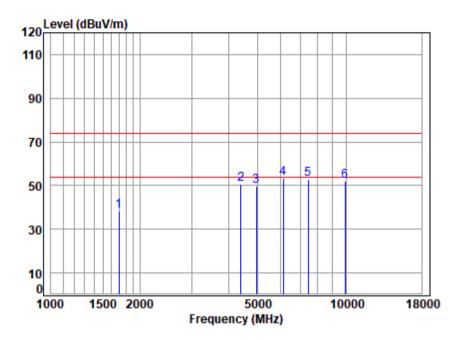


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 40 of 61

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



Site : chamber

Condition: 3m VERTICAL

Job No : 03223AT

Mode : 2480 TX RSE

: BLE

	Freq			Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	4.33	26.22	38.42	46.02	38.15	74.00	-35.85	peak
2	4405.090	7.06	34.74	35.79	44.55	50.56	74.00	-23.44	peak
3	4960.000	7.41	34.56	35.42	43.32	49.87	74.00	-24.13	peak
4	q 6124.292	8.27	35.00	34.99	44.98	53.26	74.00	-20.74	peak
5	7440.000	9.46	35.96	36.02	43.67	53.07	74.00	-20.93	peak
6	9920.000	12.58	37.30	37.39	39.69	52.18	74.00	-21.82	peak



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR230900322303

> Page: 41 of 61

Test Setup Photo 8

Refer to Appendix - Test Setup Photo for SZCR2309003223AT

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2309003223AT



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR230900322303

> Page: 42 of 61

10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

	Ant1											
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)					
	SISO	2402	0.394	0.625	63.04	2.00	0.01					
1M		2440	0.395	0.625	63.20	1.99	0.03					
		2480	0.394	0.625	63.04	2.00	0.03					



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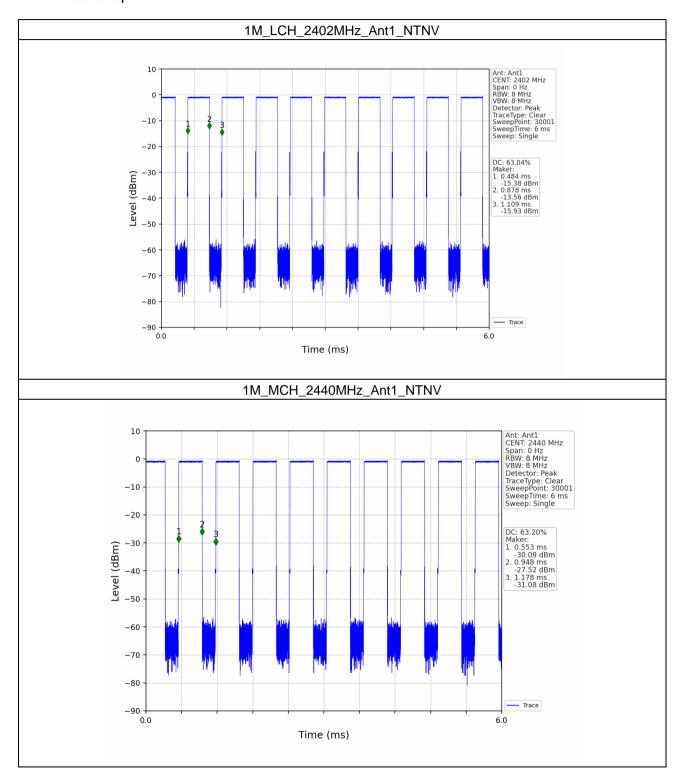


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 43 of 61

1.1.2 Test Graph





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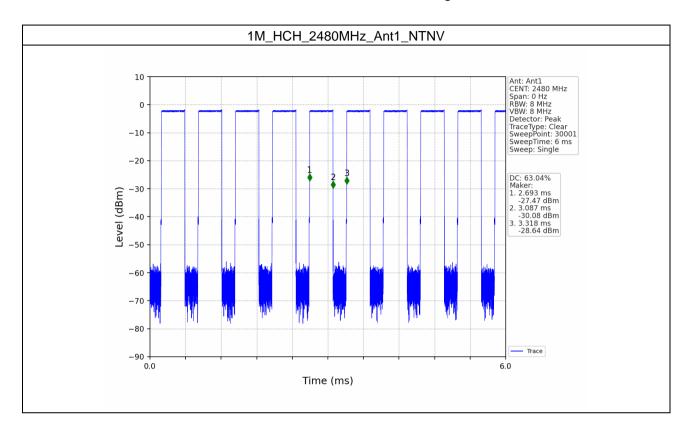
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Report No.: SZCR230900322303

Page: 44 of 61





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR230900322303

> Page: 45 of 61

2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz) Result	Verdict
		2402	1	1.027	Pass
1M	SISO	2440	1	1.027	Pass
		2480	1	1.030	Pass



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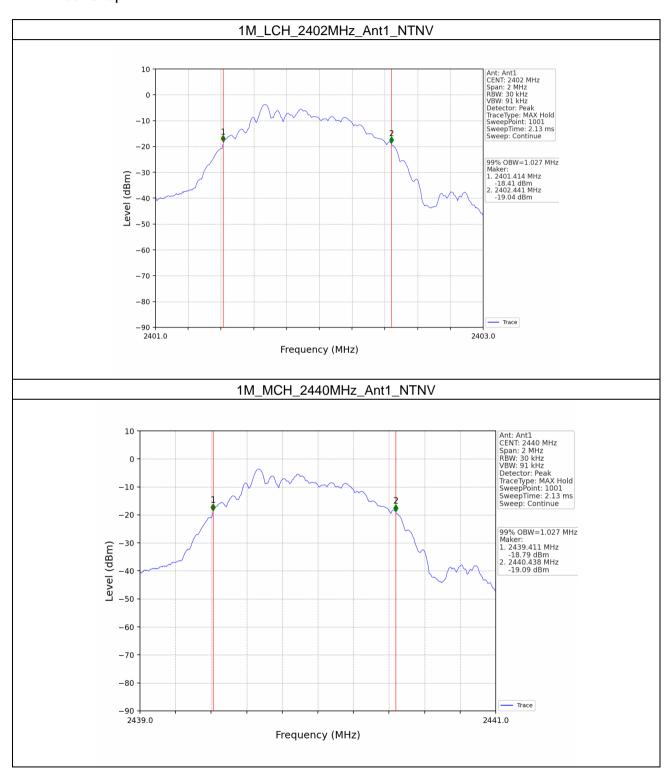


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 46 of 61

2.1.2 Test Graph





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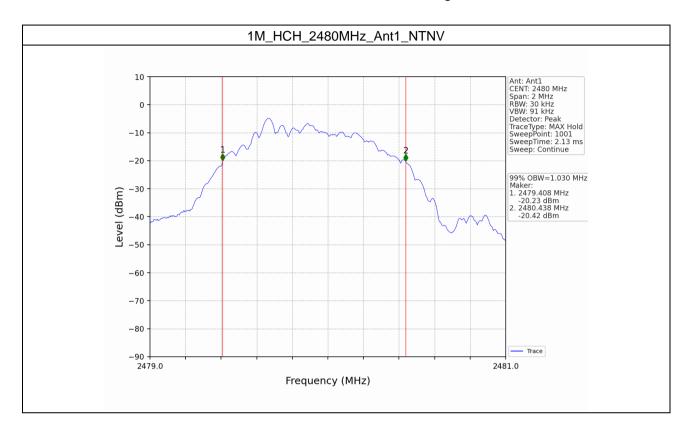
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 47 of 61





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR230900322303

> Page: 48 of 61

2.2 6dB BW

2.2.1 Test Result

Mada	TX	Frequency	ANIT	6dB Bandv	Verdict		
Mode	Туре	(MHz)	ANT	Result	Limit	verdict	
		2402	1	0.666	>=0.5	Pass	
1M	SISO	2440	1	0.663	>=0.5	Pass	
		2480	1	0.664	>=0.5	Pass	



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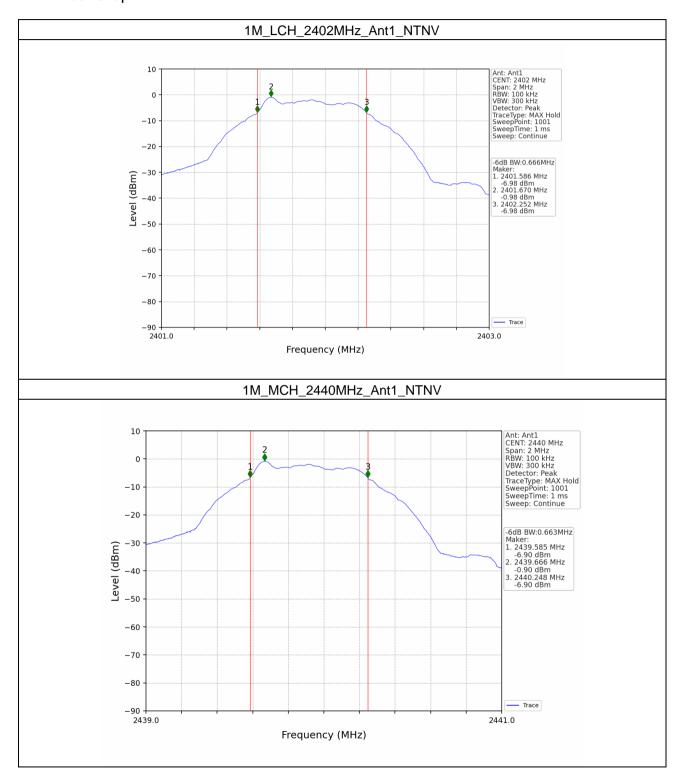


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Report No.: SZCR230900322303

Page: 49 of 61

2.2.2 Test Graph





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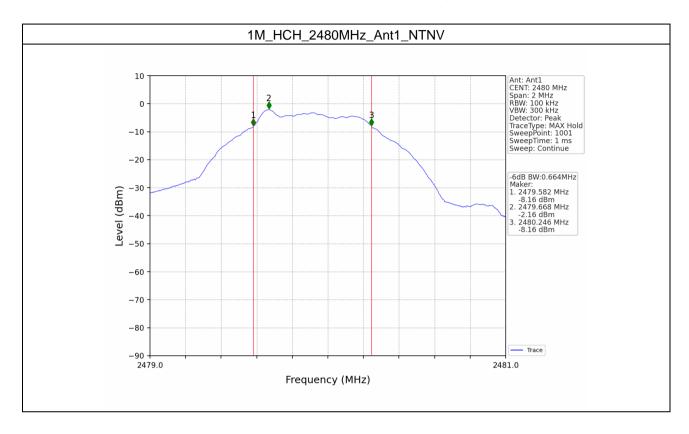
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Report No.: SZCR230900322303

Page: 50 of 61





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR230900322303

> Page: 51 of 61

3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mada	TX	Frequency	Maximum Peak Conduc	ted Output Power (dBm)	Verdict	
Mode	Type	(MHz)	ANT1	Limit	verdict	
		2402	-0.80	<=30	Pass	
1M	SISO	2440	-0.76	<=30	Pass	
		2480	-1.55	<=30	Pass	



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR230900322303

> Page: 52 of 61

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX	Frequency	Maximum PS	D (dBm/3kHz)	Verdict
Mode	Type	(MHz)	ANT1	Limit	verdict
		2402	-16.08	<=8	Pass
1M	SISO	2440	-15.96	<=8	Pass
		2480	-17.25	<=8	Pass



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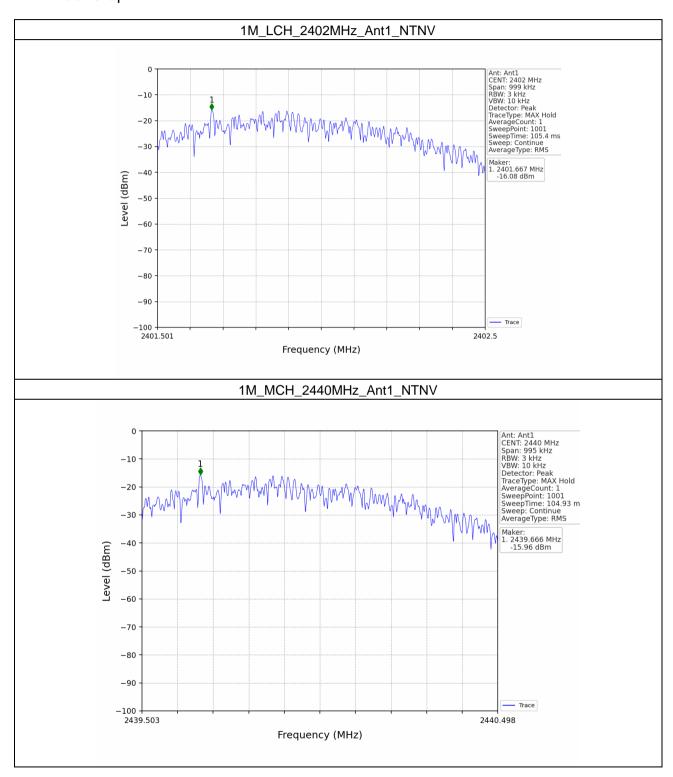


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Report No.: SZCR230900322303

Page: 53 of 61

4.1.2 Test Graph





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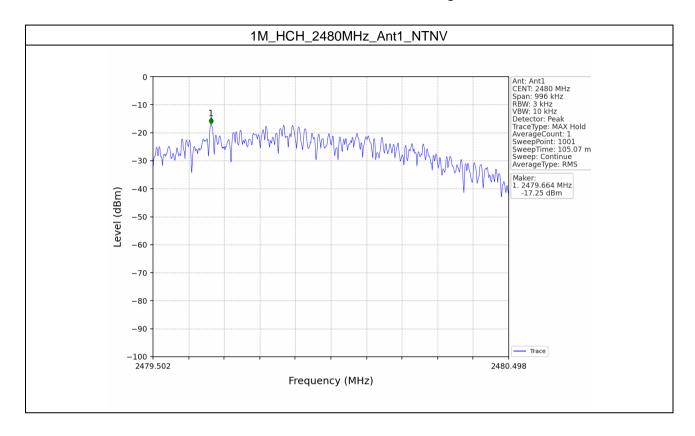
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Page: 54 of 61





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> Page: 55 of 61

5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX	Frequency	ANT	Level of Reference
Mode	Туре	(MHz)	AINT	(dBm)
		2402	1	-1.01
1M	SISO	2440	1	-0.88
		2480	1	-2.17



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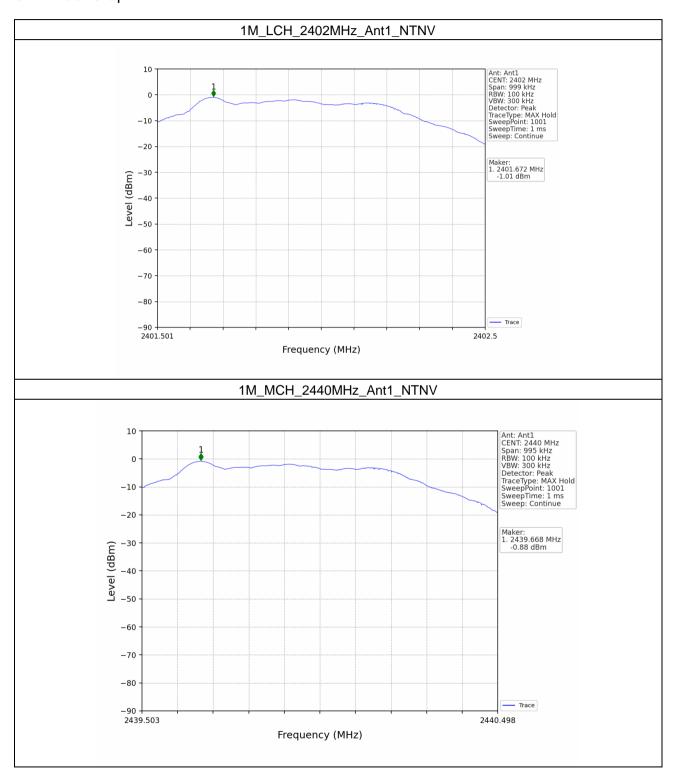


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5.1.2 Test Graph





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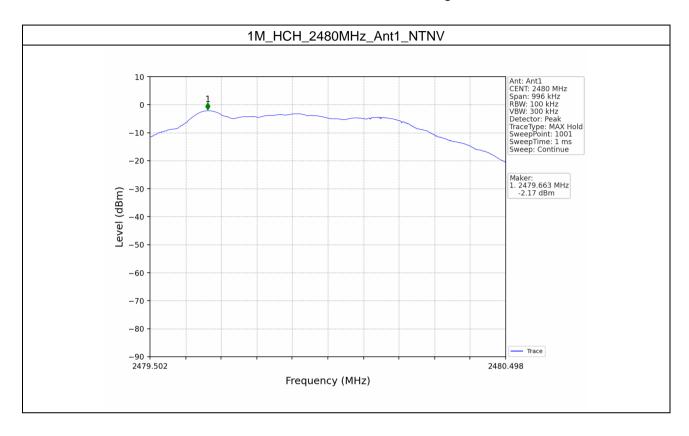
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Report No.: SZCR230900322303

Page: 57 of 61





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR230900322303

> Page: 58 of 61

5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	1	-0.88	-20.88	Pass
1M	SISO	2440	1	-0.88	-20.88	Pass
		2480	1	-0.88	-20.88	Pass



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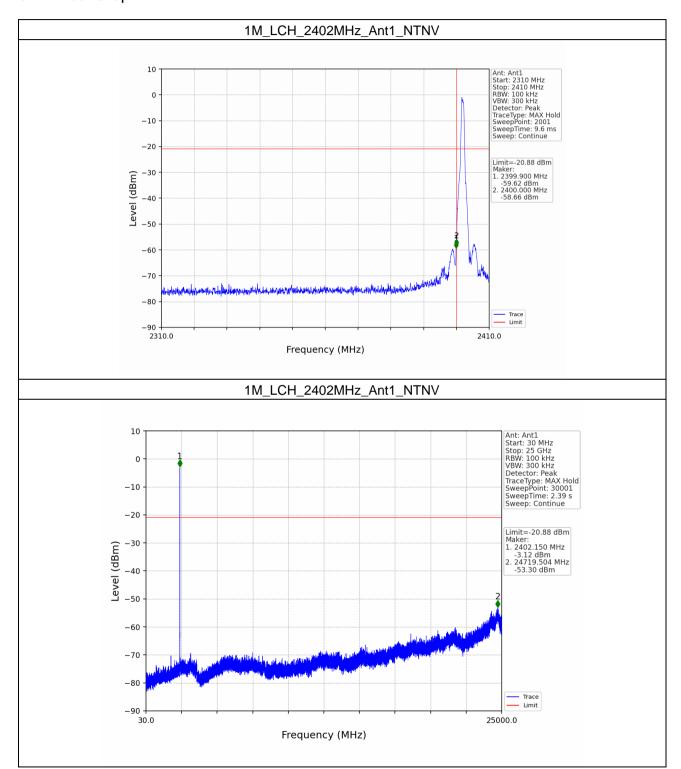


SZEMC-TRF-01 Rev. A/1

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Page: 59 of 61

5.2.2 Test Graph





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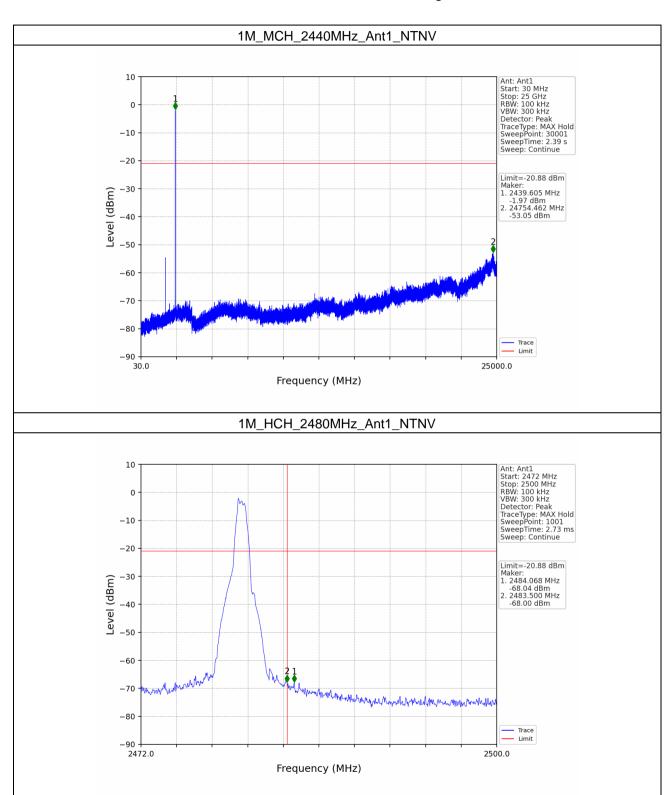
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Report No.: SZCR230900322303

Page: 60 of 61





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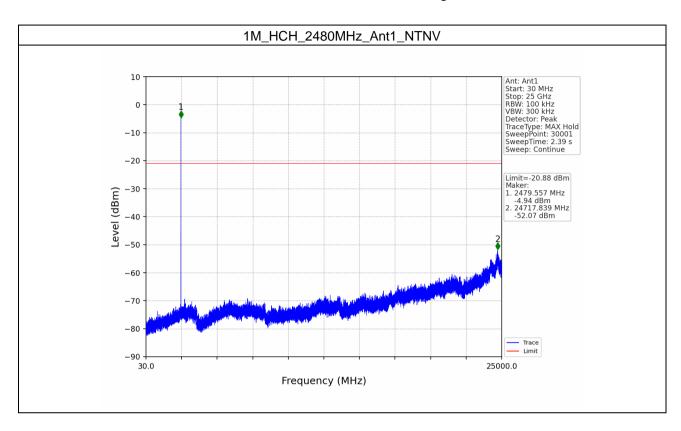
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900322303

Page: 61 of 61



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