

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

Report No.: SZCR230600187104

Page: 1 of 110

TEST REPORT

Application No.: SZCR2306001871AT Applicant: Aura Home, Inc.

Address of Applicant: 30 Cooper Square, 8th Floor New York NY 10003 United States

Manufacturer: Aura Home, Inc.

30 Cooper Square, 8th Floor New York NY 10003 United States Address of Manufacturer:

Equipment Under Test (EUT):

EUT Name: Aura Digital Frames

Model No.: AF110

FCC ID: 2AZGI-AF110

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

2023-06-15 Date of Receipt:

Date of Test: 2023-06-16 to 2023-07-05

2023-07-11 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/0 Aug01,2022

Report No.: SZCR230600187104

Page: 2 of 110

	Revision Record						
Version	Version Chapter Date Modifier Remark						
01		2023-07-11		Original			

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



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Report No.: SZCR230600187104

Page: 3 of 110

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 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass		
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass		
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass		
Conducted Band Edges Measurement	47 CFR Part 15,	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Conducted Spurious Emissions	Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		



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

Report No.: SZCR230600187104

Page: 4 of 110

3 Contents

		•	raye
1	Cove	er Page	1
2	Test	Summary	3
3	Con	tents	4
4	Gen	eral Information	€
•		Details of E.U.T	
	4.1 4.2	Description of Support Units	
	4.2	Measurement Uncertainty	
	4.4	Test Location	
	4.5	Test Facility	
	4.6	Deviation from Standards	
	4.7	Abnormalities from Standard Conditions	8
5	Equi	pment List	g
6	Radi	o Spectrum Technical Requirement	13
Ŭ			
	6.1 6.1.1	Antenna Requirement	
	6.1.1		
_	_		
7	Radi	o Spectrum Matter Test Results	
	7.1	Conducted Emissions at AC Power Line (150kHz-30MHz)	
	7.1.1		
	7.1.2		
	7.1.3	1 5	
	7.1.4 7.2	Measurement Procedure and Data Conducted Peak Output Power	
	7.2 7.2.1	·	
	7.2.1	·	
	7.2.3		
	7.2.4		
	7.3	Minimum 6dB Bandwidth	
	7.3.1	E.U.T. Operation	20
	7.3.2	· ·	
	7.3.3		
	7.3.4		
	7.4	Power Spectrum Density	
	7.4.1	·	
	7.4.2 7.4.3		
	7.4.3 7.4.4	,	
	7.4.4 7.5	Conducted Band Edges Measurement	
	7.5.1	· · · · · · · · · · · · · · · · · · ·	
	7.0.1	op. alo	



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

Page: 5 of 110

	7.5.2	Test Mode Description	22
	7.5.3	Test Setup Diagram	23
	7.5.4	Measurement Procedure and Data	23
7	'.6 C	onducted Spurious Emissions	24
	7.6.1	E.U.T. Operation	24
	7.6.2	Test Mode Description	24
	7.6.3	Test Setup Diagram	25
	7.6.4	Measurement Procedure and Data	
7	'.7 R	adiated Emissions which fall in the restricted bands	26
	7.7.1	E.U.T. Operation	27
	7.7.2	Test Mode Description	27
	7.7.3	Test Setup Diagram	
	7.7.4	Measurement Procedure and Data	28
7		adiated Spurious Emissions Below 1GHz	53
	7.8.1	E.U.T. Operation	53
	7.8.2	Test Mode Description	
	7.8.3	Test Setup Diagram	
	7.8.4	Measurement Procedure and Data	54
7	'.9 R	adiated Spurious Emissions Above 1GHz	
	7.9.1	E.U.T. Operation	
	7.9.2	Test Mode Description	57
	7.9.3	Test Setup Diagram	
	7.9.4	Measurement Procedure and Data	58
8	Test S	etup Photo	71
9	EUT C	onstructional Details (EUT Photos)	71
10	Appen	dix	72



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

Report No.: SZCR230600187104

Page: 6 of 110

General Information

Details of E.U.T. 4.1

Power supply:	AC/DC Adapter:
	MODEL:SR-A51202000U
	INPUT:AC 100-240V 50/60Hz 0.75A
	OUTPUT:DC 12.0V 2.0A 24.0W
Cable(s):	DC cable:295cm unshielded
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;802
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11
Channel Spacing:	5MHz
Antenna Type:	IPEX
Antenna Gain:	3.08dBi

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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

Report No.: SZCR230600187104

Page: 7 of 110

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)

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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

Report No.: SZCR230600187104

Page: 8 of 110

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/0 Aug01,2022

Report No.: SZCR230600187104

Page: 9 of 110

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	2022-07-08	2023-07-07	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2022-09-20	2023-09-19	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19	

Conducted Peak Output Power						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2023-04-01	2024-03-31	
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2023-03-21	2024-03-20	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30	

Minimum 6dB Bandwidth										
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	KEYSIGHT N9020A SEM004-19 2023		2023-03-21	2024-03-20					
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A					
Coaxial Cable	SGS	SGS N/A SEM031-0		2022-07-08	2023-07-07					
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30					



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Report No.: SZCR230600187104

Page: 10 of 110

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	N9020A SEM004-19		2024-03-20					
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A					
Coaxial Cable	Coaxial Cable SGS		SEM031-01	2022-07-08	2023-07-07					
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	Chroma 62012P-80-60 SEM011-11			2023-10-19					
MXA Signal Analyzer	KEYSIGHT	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	2022-07-08	2023-07-07					
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30					

Conducted Spurious Emissions										
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date					
DC Power Supply	Power Supply Chroma 62012P-80-60 SE			2022-10-20	2023-10-19					
MXA Signal Analyzer	KEYSIGHT	N9020A	N9020A SEM004-19		2024-03-20					
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A					
Coaxial Cable	Coaxial Cable SGS		SEM031-01	2022-07-08	2023-07-07					
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30					



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

Report No.: SZCR230600187104

Page: 11 of 110

Radiated Emissions which fall in the restricted bands										
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date					
3m Semi-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	2022-07-24	2024-07-23					
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20					
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07					
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	2020-07-19	2023-07-18					
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2022-10-20	2023-10-19					
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2021-09-17	2023-09-16					
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19					
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM025-01	2022-07-08	2023-07-07					



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Report No.: SZCR230600187104

Page: 12 of 110

Radiated Spurious Emissions Above 1GHz										
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date					
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31					
Signal Analyzer	Signal Analyzer Rohde & Schwarz		SEM008-04	2023-03-20	2024-03-19					
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23					
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20					
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07					

General used equipment										
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date					
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2022-09-04	2023-09-03					
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022-09-04	2023-09-03					
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22					



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Report No.: SZCR230600187104

Page: 13 of 110

Radio Spectrum Technical Requirement

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.

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.08 dBi.

Antenna location: Refer to internal photo.



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Report No.: SZCR230600187104

Page: 14 of 110

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:

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.4 °C Humidity: 50.2 % RH Atmospheric Pressure: 1000 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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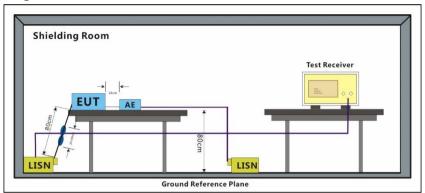


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 15 of 110

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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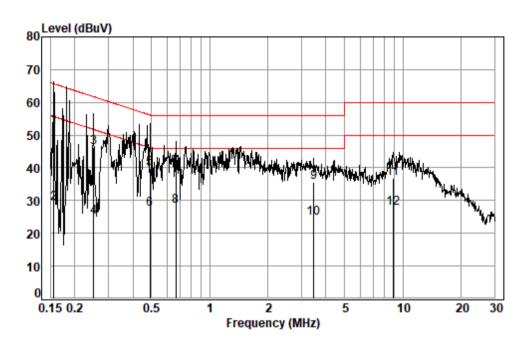


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 16 of 110

Test Mode: 04: Line: Live line



: Shielding Room

Condition: Line Job No. : 01871AT

Test mode: 04

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1565	0.03	9.76	42.78	52.57	65.65	-13.08	QP
2	0.1565	0.03	9.76	19.43	29.22	55.65	-26.43	Average
3	0.2508	0.04	9.76	36.44	46.24	61.73	-15.49	QP
4	0.2508	0.04	9.76	15.28	25.08	51.73	-26.65	Average
5	0.4915	0.05	9.76	30.06	39.87	56.14	-16.27	QP
6	0.4915	0.05	9.76	17.47	27.28	46.14	-18.86	Average
7	0.6683	0.06	9.77	30.32	40.15	56.00	-15.85	QP
8 *	0.6683	0.06	9.77	18.51	28.34	46.00	-17.66	Average
9	3.4722	0.13	9.86	25.48	35.47	56.00	-20.53	QP
10	3.4722	0.13	9.86	14.73	24.72	46.00	-21.28	Average
11	8.9163	0.20	10.19	26.44	36.83	60.00	-23.17	QP
12	8.9163	0.20	10.19	17.16	27.55	50.00	-22.45	Average



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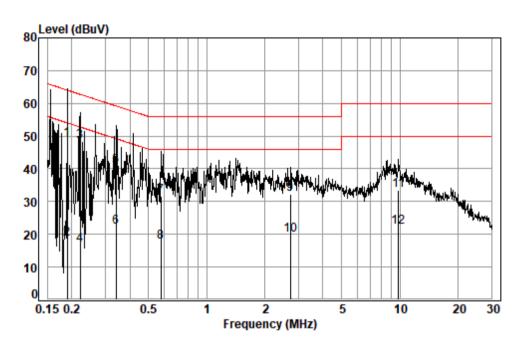


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 17 of 110

Test Mode: 04: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 01871AT

Test mode: 04

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1894	0.03	9.73	39.32	49.08	64.06	-14.98	QP
2	0.1894	0.03	9.73	8.80	18.56	54.06	-35.50	Average
3 *	0.2220	0.04	9.73	38.61	48.38	62.74	-14.36	QP
4	0.2220	0.04	9.73	6.82	16.59	52.74	-36.15	Average
5	0.3392	0.05	9.74	31.02	40.81	59.22	-18.41	QP
6	0.3392	0.05	9.74	12.51	22.30	49.22	-26.92	Average
7	0.5792	0.06	9.74	21.80	31.60	56.00	-24.40	QP
8	0.5792	0.06	9.74	7.78	17.58	46.00	-28.42	Average
9	2.7212	0.12	9.82	22.38	32.32	56.00	-23.68	QP
10 *	2.7212	0.12	9.82	9.86	19.80	46.00	-26.20	Average
11	9.8606	0.21	10.31	23.04	33.56	60.00	-26.44	QP
12	9.8606	0.21	10.31	11.57	22.09	50.00	-27.91	Average



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Report No.: SZCR230600187104

Page: 18 of 110

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 11.9.2

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: 22.4 °C Humidity: 50.2 % RH Atmospheric Pressure: 1005 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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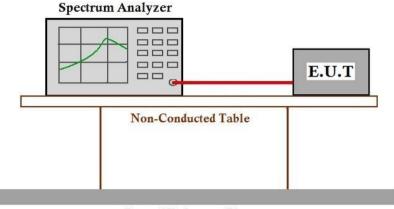


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Report No.: SZCR230600187104

Page: 19 of 110

7.2.3 Test Setup Diagram



Ground Reference Plane

7.2.4 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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Page: 20 of 110

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

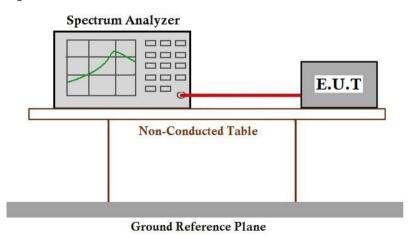
Operating Environment:

Temperature: 22.4 °C Atmospheric Pressure: 1005 mbar Humidity: 50.2 % RH

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Report No.: SZCR230600187104

Page: 21 of 110

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

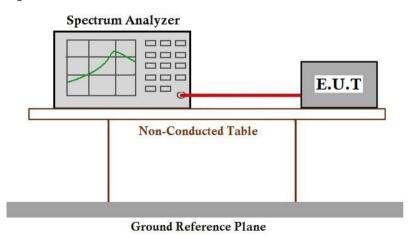
Operating Environment:

22.4 °C Temperature: Humidity: 50.2 % RH Atmospheric Pressure: 1005 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Report No.: SZCR230600187104

Page: 22 of 110

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: 22.4 °C Humidity: 50.2 % RH Atmospheric Pressure: 1005 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description				
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.				



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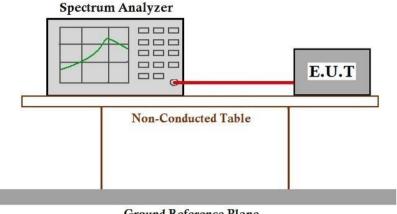


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 23 of 110

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/0 Aug01,2022

Report No.: SZCR230600187104

Page: 24 of 110

7.6 Conducted Spurious Emissions

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

Limit:

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.4 °C Humidity: 50.2 % RH Atmospheric Pressure: 1005 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description				
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.				



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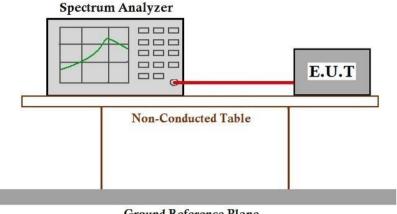


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 25 of 110

7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Report No.: SZCR230600187104

Page: 26 of 110

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.



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Report No.: SZCR230600187104

Page: 27 of 110

7.7.1 E.U.T. Operation

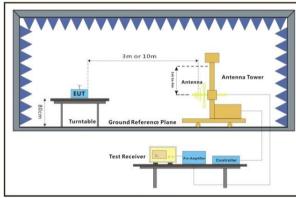
Operating Environment:

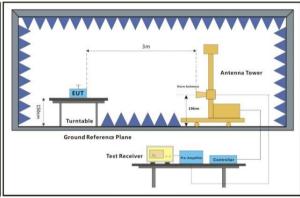
Temperature: 22.4 °C Atmospheric Pressure: 1005 mbar Humidity: 60.1 % RH

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz



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

Report No.: SZCR230600187104

Page: 28 of 110

7.7.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the
- 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.
- i. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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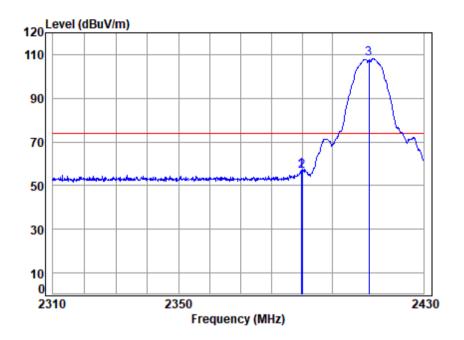


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 29 of 110

Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 01871AT/01872AT Mode : 2412 Band edge Note : 2.4G WIFI 11B

	Freq		Ant Factor						Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.726	4.25	28.76	35.64	59.67	57.04	74.00	-16.96	peak
2	2390.000	4.25	28.76	35.64	59.01	56.38	74.00	-17.62	peak
3 q	2412.000	4.27	28.87	35.63	110.57	108.08	74.00	34.08	peak



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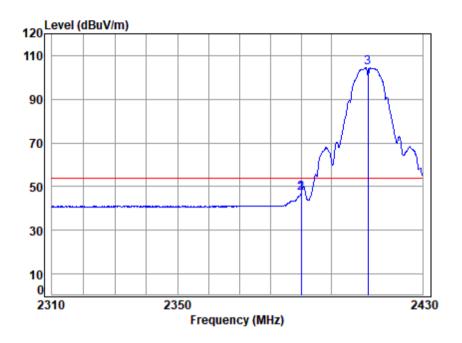


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 30 of 110

Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 01871AT/01872AT : 2412 Band edge Mode Note : 2.4G WIFI 11B

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	4.25	28.76	35.64	49.76	47.13	54.00	-6.87	Average
2	2390.000	4.25	28.76	35.64	49.76	47.13	54.00	-6.87	Average
3	q 2412.000	4.27	28.87	35.63	106.87	104.38	54.00	50.38	Average



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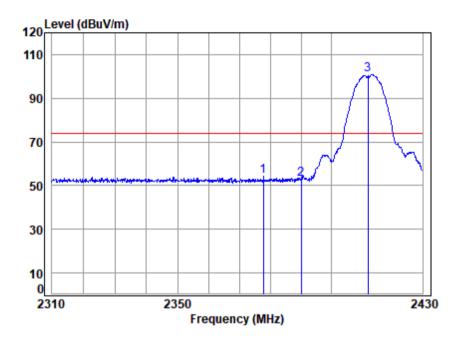


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 31 of 110

Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01871AT/01872AT Mode : 2412 Band edge Note · 2 4G WTET 11B

ore	: Z.	4G WIF	T TID							
		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	2377.775	4.24	28.71	35.64	56.97	54.28	74.00	-19.72	Peak	
2	2390.000	4.25	28.76	35.64	55.64	53.01	74.00	-20.99	Peak	
3 a	2412.000	4.27	28.87	35.63	103.19	100.70	74.00	26.70	Peak	



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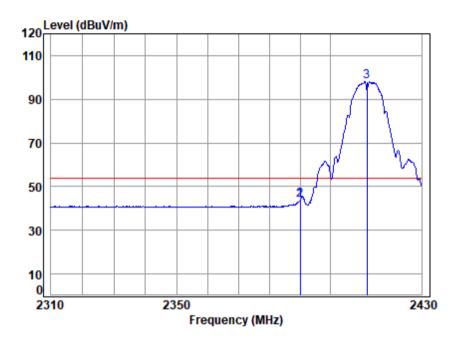


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 32 of 110

Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01871AT/01872AT Mode : 2412 Band edge Note : 2.4G WIFI 11B

	Freq				Read Level				Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	2389.968								_	
	2390.000	4.25	28.76	35.64	46.27	43.64	54.00	-10.36	Average	
q	2412.000	4.27	28.87	35.63	100.38	97.89	54.00	43.89	Average	



1 2

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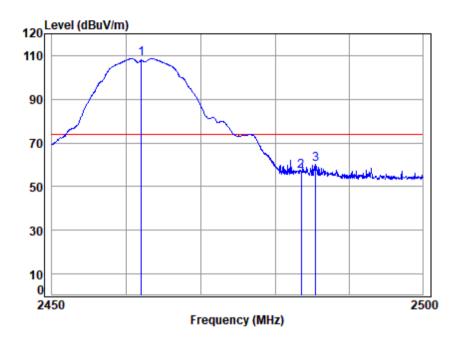


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 33 of 110

Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 01871AT/01872AT Mode : 2462 Band edge Note : 2.4G WIFI 11B

	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 (2462.000	4.32	29.17	35.62	110.66	108.53	74.00	34.53	peak
2	2483.500	4.34	29.30	35.61	59.07	57.10	74.00	-16.90	peak
3	2485.496	4.35	29.31	35.61	62.25	60.30	74.00	-13.70	peak



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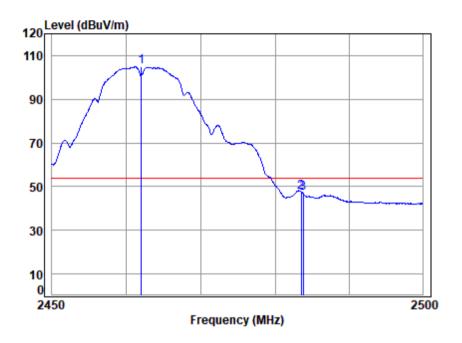


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 34 of 110

Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 01871AT/01872AT Mode : 2462 Band edge Note : 2.4G WIFI 11B

							Limit		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHZ	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
4	2462 000	4 33	20.47	35 63	406.03	404.00	F4 00	FO 00	
1 q	2462.000	4.32	29.17	35.62	106.93	104.80	54.00	50.80	Average
2	2483.500	4.34	29.30	35.61	49.63	47.66	54.00	-6.34	Average
3	2483.790	4.34	29.30	35.61	48.81	46.84	54.00	-7.16	Average



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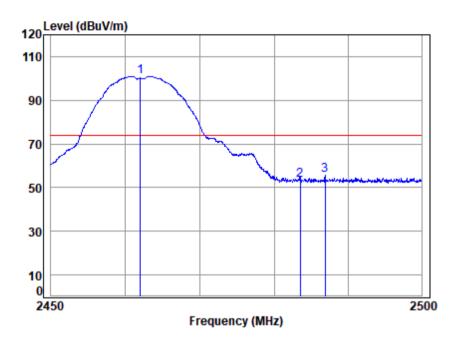


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 35 of 110

Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 01871AT/01872AT Mode : 2462 Band edge Note : 2.4G WIFI 11B

Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHZ	ав	aB/m	ав	aBuv	aBuv/m	aBuv/m	ав	
2/62 000	/ 32	29 17	35 62	103 01	100 22	7/ 00	26 88	Poak
2483.500	4.34	29.30	35.61	55.30	53.33	74.00	-20.67	Peak
2486.903	4.35	29.32	35.61	57.41	55.47	74.00	-18.53	Peak
	MHz 2462.000 2483.500	Freq Loss MHz dB 2462.000 4.32 2483.500 4.34	Freq Loss Factor MHz dB dB/m 2462.000 4.32 29.17 2483.500 4.34 29.30	Freq Loss Factor Factor MHz dB dB/m dB 2462.000 4.32 29.17 35.62 2483.500 4.34 29.30 35.61	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 2462.000 4.32 29.17 35.62 103.01 2483.500 4.34 29.30 35.61 55.30	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 2462.000 4.32 29.17 35.62 103.01 100.88 2483.500 4.34 29.30 35.61 55.30 53.33	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB uV dBuV dBuV/m dBuV/m dBuV/m 2462.000 4.32 29.17 35.62 103.01 100.88 74.00 2483.500 4.34 29.30 35.61 55.30 53.33 74.00	Cable Ant Preamp Read Limit Over Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 2462.000 4.32 29.17 35.62 103.01 100.88 74.00 26.88 2483.500 4.34 29.30 35.61 55.30 53.33 74.00 -20.67 2486.903 4.35 29.32 35.61 57.41 55.47 74.00 -18.53



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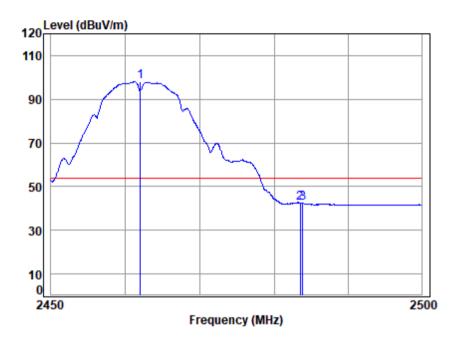


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 36 of 110

Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 01871AT/01872AT Mode : 2462 Band edge · 2 4G WTET 11B Note

ote	. 2.4G WIFI 11D									
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 q	2462.000	4.32	29.17	35.62	100.15	98.02	54.00	44.02	Average	
2	2483.500	4.34	29.30	35.61	44.52	42.55	54.00	-11.45	Average	
3	2483.840	4.34	29.30	35.61	44.56	42.59	54.00	-11.41	Average	



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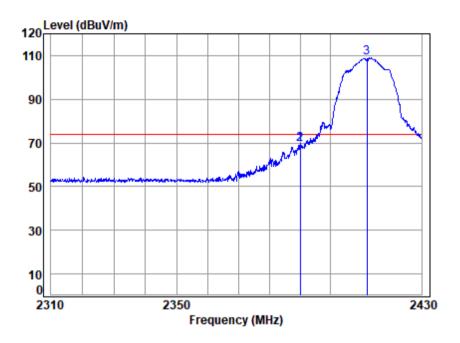


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 37 of 110

Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 01871AT/01872AT Mode : 2412 Band edge Note : 2.4G WIFI 11G

	Fnoa						Limit		Domanie
	Freq	LOSS	ractor	ractor	rever	rever	Line	LIMIC	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	4.25	28.76	35.64	72.16	69.53	74.00	-4.47	peak
2	2390.000	4.25	28.76	35.64	72.16	69.53	74.00	-4.47	peak
3 q	2412.000	4.27	28.87	35.63	111.35	108.86	74.00	34.86	peak



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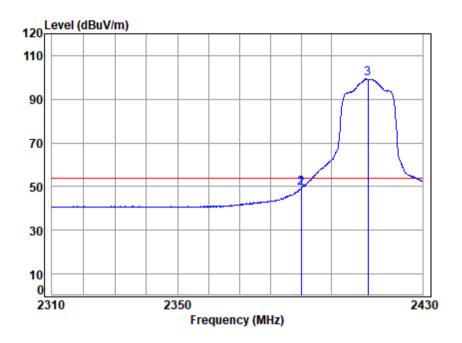


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Report No.: SZCR230600187104

Page: 38 of 110

Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 01871AT/01872AT Mode : 2412 Band edge Note : 2.4G WIFI 11G

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	4.25	28.76	35.64	51.84	49.21	54.00	-4.79	Average
2	2390.000	4.25	28.76	35.64	51.84	49.21	54.00	-4.79	Average
3 q	2412.000	4.27	28.87	35.63	101.85	99.36	54.00	45.36	Average



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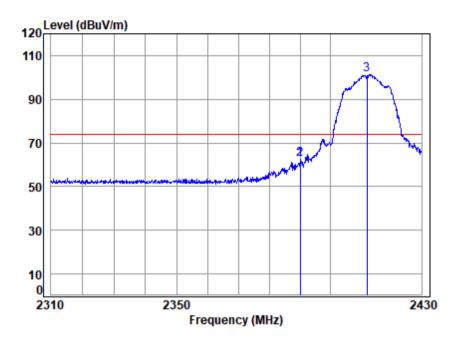


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 39 of 110

Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01871AT/01872AT Mode : 2412 Band edge Note · 2 4G WIFT 11G

ote	: 2.4	4G WIF	1 110							
		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	2389.968	4.25	28.76	35.64	65.19	62.56	74.00	-11.44	Peak	
2	2390.000	4.25	28.76	35.64	65.19	62.56	74.00	-11.44	Peak	
3 a	2412.000	4.27	28.87	35.63	103.74	101.25	74.00	27.25	Peak	



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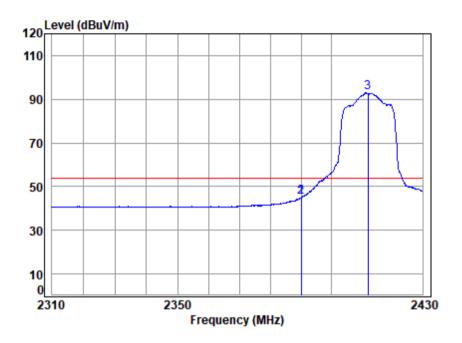


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 40 of 110

Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01871AT/01872AT Mode : 2412 Band edge : 2.4G WIFI 11G Note

		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	2389.968	4.25	28.76	35.64	47.58	44.95	54.00	-9.05	Average
2	2390.000	4.25	28.76	35.64	47.58	44.95	54.00	-9.05	Average
3 q	2412.000	4.27	28.87	35.63	95.47	92.98	54.00	38.98	Average



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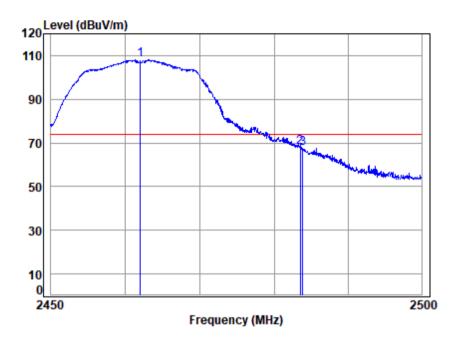


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Report No.: SZCR230600187104

Page: 41 of 110

Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 01871AT/01872AT Mode : 2462 Band edge Note : 2.4G WIFI 11G

	Freq						Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	4.32	29.17	35.62	110.11	107.98	74.00	33.98	peak
2	2483.500	4.34	29.30	35.61	69.88	67.91	74.00	-6.09	peak
3	2483.890	4.34	29.30	35.61	69.57	67.60	74.00	-6.40	peak



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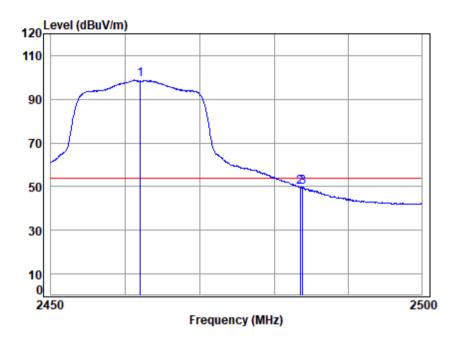


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 42 of 110

Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 01871AT/01872AT Mode : 2462 Band edge Note : 2.4G WIFI 11G

		Freq						Limit Line		Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
		2462.000								_
2		2483.500	4.34	29.30	35.61	51.61	49.64	54.00	-4.36	Average
3		2483.890	4.34	29.30	35.61	51.55	49.58	54.00	-4.42	Average



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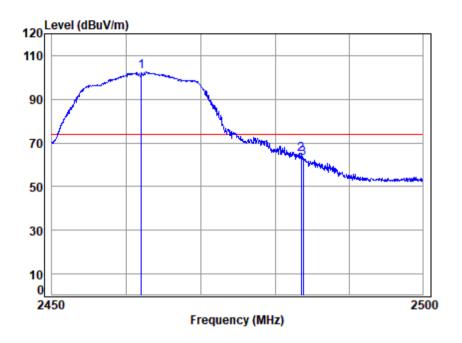


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 43 of 110

Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 01871AT/01872AT Mode : 2462 Band edge Note : 2.4G WIFI 11G

	-		Ant						ь .
	Freq	LOSS	Factor	Factor	rever	rever	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
							•		
1 a	2462.000	4 32	29 17	35 62	104 74	102 61	74 99	28 61	Peak
- 4	2402.000	7.52	27.17	33.02	104.74	102.01	74.00	20.01	I Cuit
2	2483.500	4.34	29.30	35.61	66.80	64.83	74.00	-9.17	Peak
3	2483.790	4.34	29.30	35.61	64.89	62.92	74.00	-11.08	Peak



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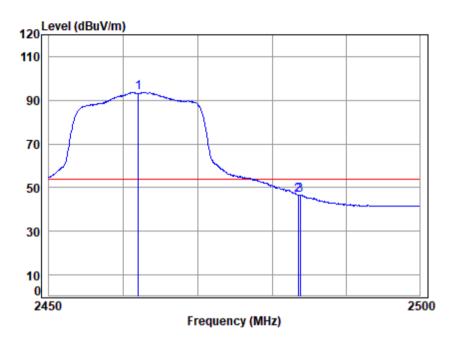


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 44 of 110

Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 01871AT/01872AT Mode : 2462 Band edge : 2.4G WIFI 11G Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	4.32	29.17	35.62	95.81	93.68	54.00	39.68	Average
2	2483.500	4.34	29.30	35.61	48.66	46.69	54.00	-7.31	Average
3	2483.790	4.34	29.30	35.61	48.50	46.53	54.00	-7.47	Average



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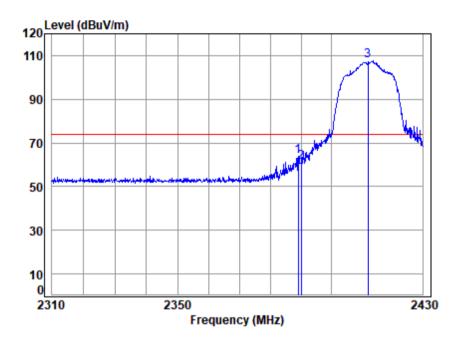


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 45 of 110

Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 01871AT/01872AT : 2412 Band edge Mode Note : 2.4G WIFI 11N20

				_					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-									
	MHZ	dВ	dB/m	dВ	dBuV	dBuV/m	dBuV/m	dB	
1	2200 000	4 25	20.76	25 64	CC 22	62.70	74.00	10 20	I-
1	2389.000	4.25	20./0	33.64	00.33	65.70	74.00	-10.30	peak
2	2390.000	4.25	28.76	35.64	63.75	61.12	74.00	-12.88	peak
3 q	2412.000	4.27	28.87	35.63	110.00	107.51	74.00	33.51	peak



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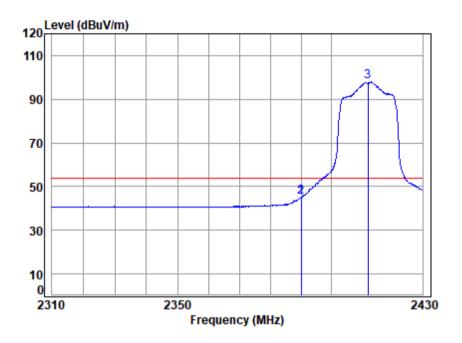


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 46 of 110

Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 01871AT/01872AT : 2412 Band edge Mode Note : 2.4G WIFI 11N20

		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	
4	2200 000	4 25	20.76	35.64	47.50	44.06	F4 00	0.04	•
1	2389.968	4.25	28.76	35.64	47.59	44.96	54.00	-9.04	Average
2	2390.000	4.25	28.76	35.64	47.59	44.96	54.00	-9.04	Average
3 q	2412.000	4.27	28.87	35.63	100.37	97.88	54.00	43.88	Average



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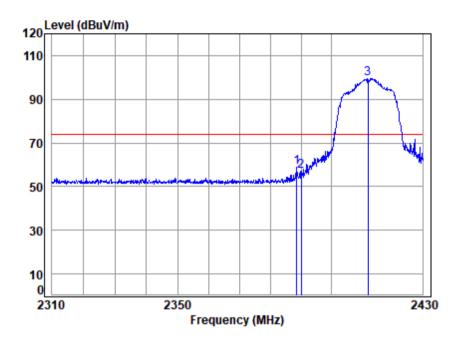


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 47 of 110

Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01871AT/01872AT Mode : 2412 Band edge : 2.4G WIFI 11N20 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.516	4.25	28.75	35.64	61.44	58.80	74.00	-15.20	Peak
2	2390.000	4.25	28.76	35.64	59.62	56.99	74.00	-17.01	Peak
3 (2412.000	4.27	28.87	35.63	102.08	99.59	74.00	25.59	Peak



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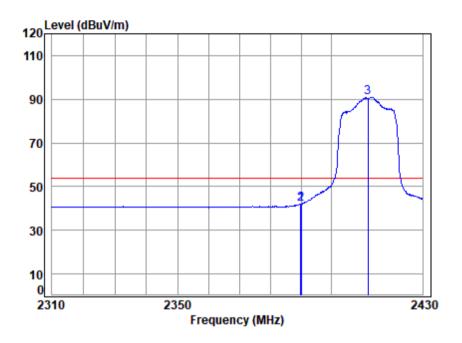


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 48 of 110

Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01871AT/01872AT Mode : 2412 Band edge : 2.4G WIFI 11N20 Note

		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	2389.847	4.25	28.76	35.64	44.64	42.01	54.00	-11.99	Average	
2	2390.000	4.25	28.76	35.64	44.53	41.90	54.00	-12.10	Average	
3 q	2412.000	4.27	28.87	35.63	93.34	90.85	54.00	36.85	Average	



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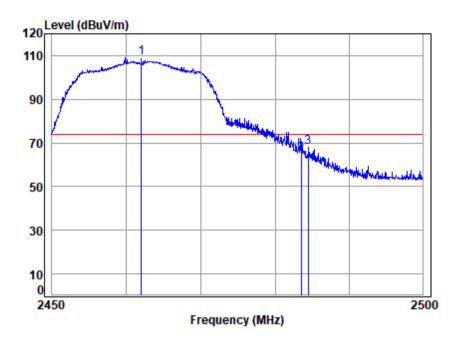


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 49 of 110

Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 01871AT/01872AT Mode : 2462 Band edge : 2.4G WIFI 11N20 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	4.32	29.17	35.62	110.98	108.85	74.00	34.85	peak
2	2483.500	4.34	29.30	35.61	66.79	64.82	74.00	-9.18	peak
3	2484.492	4.34	29.31	35.61	70.14	68.18	74.00	-5.82	peak



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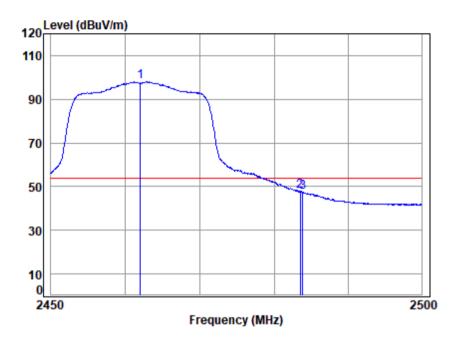


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 50 of 110

Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 01871AT/01872AT : 2462 Band edge Mode Note : 2.4G WIFI 11N20

Cable Ant Preamp Read Limit Over Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dB dBuV dBuV/m dBuV/m dB								
MHz dB dB/m dB dBuV dBuV/m dBuV/m dB	F	Freq					Remark	
2483.500 4.34 29.30 35.61 49.72 47.75 54.00 -6.25 Avera 2483.890 4.34 29.30 35.61 49.30 47.33 54.00 -6.67 Avera							_	



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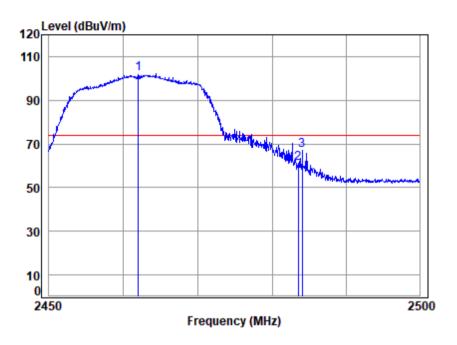


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 51 of 110

Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 01871AT/01872AT Mode : 2462 Band edge : 2.4G WIFT 11N20 Note

	_									
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q	2462.000	4.32	29.17	35.62	104.11	101.98	74.00	27.98	Peak
2		2483.500	4.34	29.30	35.61	62.96	60.99	74.00	-13.01	Peak
3		2484.091	4.34	29.31	35.61	69.14	67.18	74.00	-6.82	Peak



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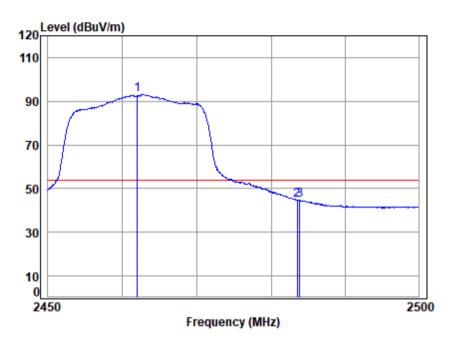


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 52 of 110

Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 01871AT/01872AT : 2462 Band edge Mode Note : 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
									Average Average
									Average



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

Report No.: SZCR230600187104

Page: 53 of 110

7.8 Radiated Spurious Emissions Below 1GHz

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

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

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:

Temperature: 22.1 °C Humidity: 41.2 % RH Atmospheric Pressure: 1000 mbar

7.8.2 Test Mode Description

		•
Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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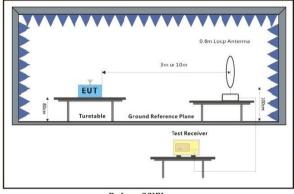


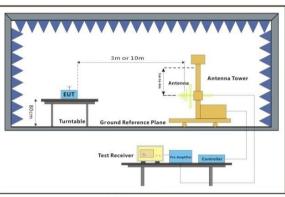
SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 54 of 110

7.8.3 Test Setup Diagram





30MHz-1GHz Below 30MHz

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 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of
- 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.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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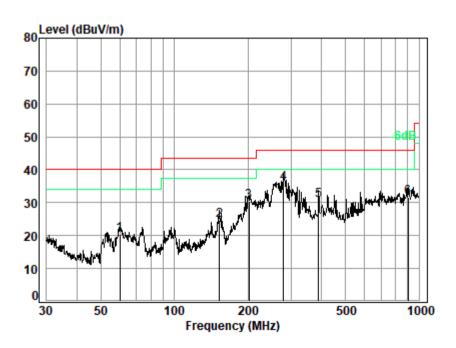


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 55 of 110

Test Mode: 04; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL Job No. : 01871AT/01872AT

Test Mode: 04

	Freq	Ant Factor		Preamp Factor					Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	59.86	11.25	0.85	27.13	35.44	20.41	40.00	-19.59	QP
2	152.66	13.44	1.43	26.79	36.49	24.57	43.50	-18.93	QP
3	202.10	14.57	1.70	26.59	40.63	30.31	43.50	-13.19	QP
4 q	279.04	17.87	2.03	26.28	42.35	35.97	46.00	-10.03	QP
5	389.35	21.40	2.44	26.47	33.40	30.77	46.00	-15.23	QP
6		28.61	4.04	25.89	24.87	31.63	46.00	-14.37	OP



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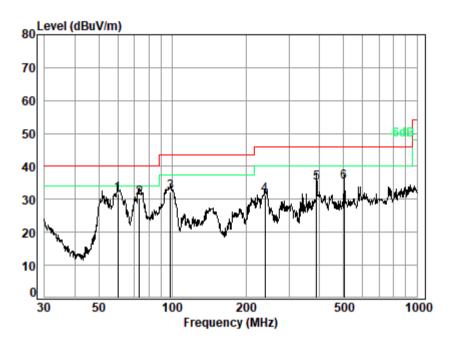


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 56 of 110

Test Mode: 04; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL

Job No. : 01871AT/01872AT

Test Mode: 04

		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 q	59.86	11.25	0.85	27.13	46.57	31.54	40.00	-8.46	QP
2	73.36	10.29	0.96	27.09	46.30	30.46	40.00	-9.54	QP
3	98.14	12.95	1.13	27.01	45.15	32.22	43.50	-11.28	QP
4	239.15	17.78	1.86	26.44	38.05	31.25	46.00	-14.75	QP
5	389.35	21.40	2.44	26.47	37.56	34.93	46.00	-11.07	QP
6	504.71	23.28	2.82	26.81	36.08	35.37	46.00	-10.63	QP



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

Report No.: SZCR230600187104

Page: 57 of 110

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

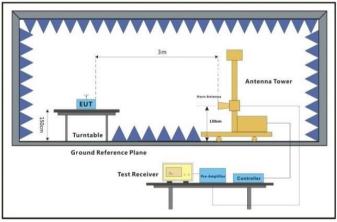
Operating Environment:

Temperature: 23.3 °C Humidity: 60.7 % RH Atmospheric Pressure: 1005 mbar

7.9.2 Test Mode Description

		oon paon
Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



Above 1GHz



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

Report No.: SZCR230600187104

Page: 58 of 110

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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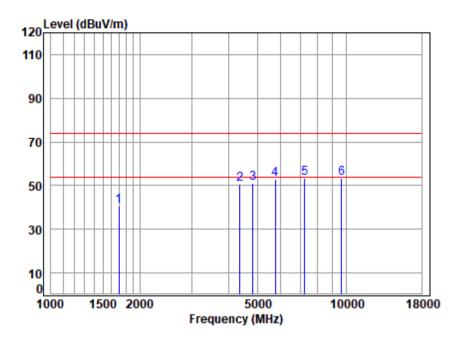


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 59 of 110

Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 01871AT/01872AT Mode : 2412 TX RSE

: 2.4G WIFI 11B

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1702.042	3.49	26.80	36.40	46.71	40.60	74.00	-33.40	peak
2		4367.058	6.65	33.57	34.59	44.98	50.61	74.00	-23.39	peak
3		4824.000	7.06	33.90	34.88	44.94	51.02	74.00	-22.98	peak
4		5763.617	7.95	34.53	35.03	45.57	53.02	74.00	-20.98	peak
5		7236.000	8.54	35.80	35.95	44.94	53.33	74.00	-20.67	peak
6	q	9648.000	10.41	37.10	35.55	41.37	53.33	74.00	-20.67	peak



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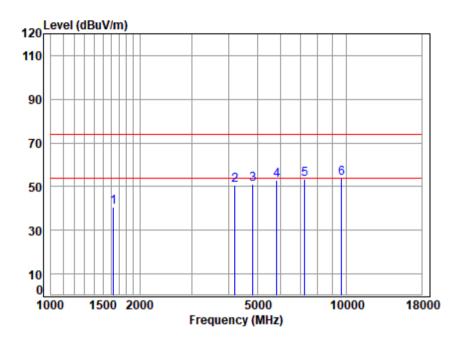


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 60 of 110

Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01871AT/01872AT

Mode : 2412 TX RSE

: 2.4G WIFI 11B

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1629.825	3.41	26.62	36.56	47.35	40.82	74.00	-33.18	peak
2		4206.011	6.49	33.42	34.48	45.23	50.66	74.00	-23.34	peak
3		4824.000	7.06	33.90	34.88	44.93	51.01	74.00	-22.99	peak
4		5813.812	8.00	34.63	35.03	45.16	52.76	74.00	-21.24	peak
5		7236.000	8.54	35.80	35.95	44.93	53.32	74.00	-20.68	peak
6	q	9648.000	10.41	37.10	35.55	42.00	53.96	74.00	-20.04	peak



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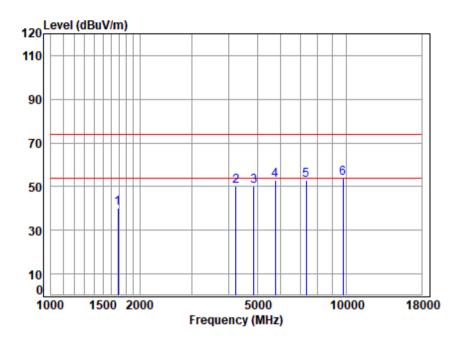


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 61 of 110

Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 01871AT/01872AT

: 2437 TX RSE Mode

: 2.4G WIFI 11B

			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		1687.347	3.47	26.77	36.43	46.57	40.38	74.00	-33.62	peak
2		4230.396	6.51	33.52	34.49	44.53	50.07	74.00	-23.93	peak
3		4874.000	7.10	34.05	34.91	44.05	50.29	74.00	-23.71	peak
4		5763.617	7.95	34.53	35.03	45.54	52.99	74.00	-21.01	peak
5		7311.000	8.61	35.90	35.97	44.18	52.72	74.00	-21.28	peak
6	q	9748.000	10.45	37.20	35.56	41.53	53.62	74.00	-20.38	peak



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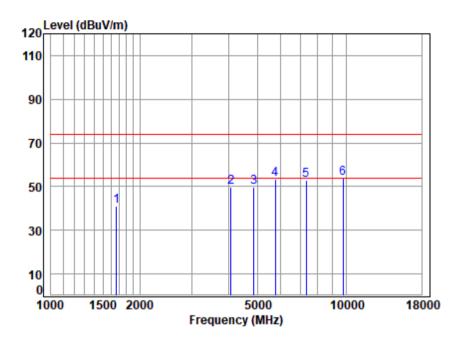


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 62 of 110

Test Mode: 04: Polarity: Vertical: Modulation:802.11b: Bandwidth:20MHz: Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 01871AT/01872AT

Mode : 2437 TX RSE

: 2.4G WIFI 11B

		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	1667.951	3.45	26.74	36.47	47.29	41.01	74.00	-32.99	peak
2	4074.388	6.36	32.95	34.38	44.59	49.52	74.00	-24.48	peak
3	4874.000	7.10	34.05	34.91	43.49	49.73	74.00	-24.27	peak
4	5746.982	7.94	34.50	35.03	45.75	53.16	74.00	-20.84	peak
5	7311.000	8.61	35.90	35.97	44.24	52.78	74.00	-21.22	peak
6	q 9748.000	10.45	37.20	35.56	41.91	54.00	74.00	-20.00	peak



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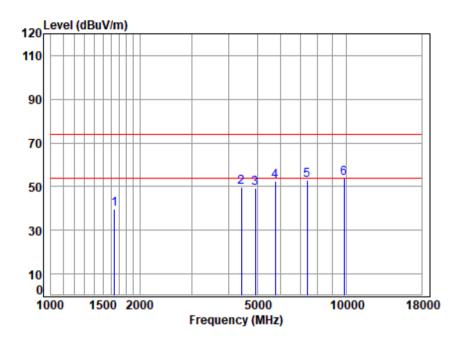


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 63 of 110

Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 01871AT/01872AT

Mode : 2462 TX RSE

: 2.4G WIFI 11B

			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	3.42	26.68	36.53	46.34	39.91	74.00	-34.09	peak
2		4417.841	6.69	33.50	34.62	44.04	49.61	74.00	-24.39	peak
3		4924.000	7.15	34.15	34.94	43.05	49.41	74.00	-24.59	peak
4		5746.982	7.94	34.50	35.03	45.12	52.53	74.00	-21.47	peak
5		7386.000	8.68	35.90	35.98	44.48	53.08	74.00	-20.92	peak
6	q	9848.000	10.49	37.30	35.57	41.39	53.61	74.00	-20.39	peak



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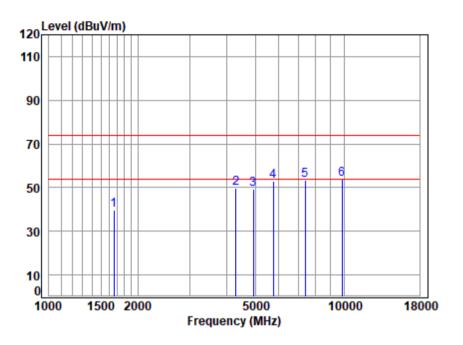


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 64 of 110

Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 01871AT/01872AT

Mode : 2462 TX RSE

: 2.4G WIFI 11B

			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		1658.337	3.44	26.72	36.50	45.87	39.53	74.00	-34.47	peak
2		4304.400	6.59	33.60	34.54	43.88	49.53	74.00	-24.47	peak
3		4924.000	7.15	34.15	34.94	42.70	49.06	74.00	-24.94	peak
4		5763.617	7.95	34.53	35.03	45.42	52.87	74.00	-21.13	peak
5		7386.000	8.68	35.90	35.98	44.83	53.43	74.00	-20.57	peak
6	q	9848.000	10.49	37.30	35.57	41.57	53.79	74.00	-20.21	peak



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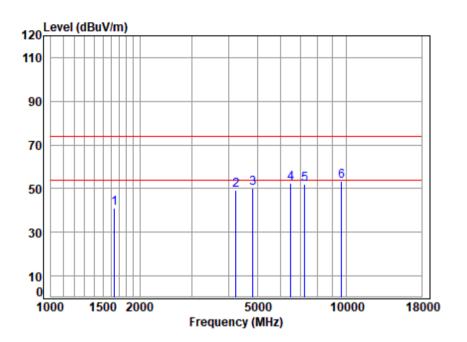


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 65 of 110

Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 01871AT/01872AT Mode : 2412 TX RSE

: 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1644.019	3.42	26.68	36.53	47.61	41.18	74.00	-32.82	peak
2	4230.396	6.51	33.52	34.49	43.91	49.45	74.00	-24.55	peak
3	4824.000	7.06	33.90	34.88	44.08	50.16	74.00	-23.84	peak
4	6488.754	8.24	35.48	35.48	44.15	52.39	74.00	-21.61	peak
5	7236.000	8.54	35.80	35.95	43.85	52.24	74.00	-21.76	peak
6	9648.000	10.41	37.10	35.55	41.22	53.18	74.00	-20.82	peak



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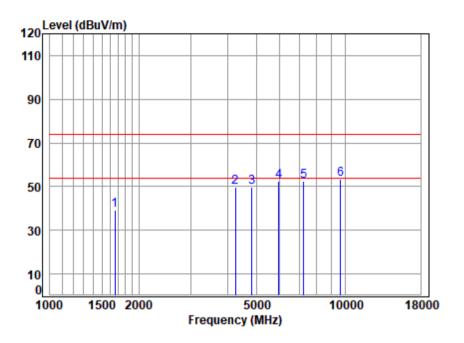


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 66 of 110

Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01871AT/01872AT

Mode : 2412 TX RSE

: 2.4G WIFI 11N20

				_					
		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	3.45	26.73	36.48	45.47	39.17	74.00	-34.83	peak
2	4242.641	6.53	33.57	34.50	44.15	49.75	74.00	-24.25	peak
3	4824.000	7.06	33.90	34.88	43.62	49.70	74.00	-24.30	peak
4	5967.033	8.13	34.93	35.04	44.56	52.58	74.00	-21.42	peak
5	7236.000	8.54	35.80	35.95	43.90	52.29	74.00	-21.71	peak
6	q 9648.000	10.41	37.10	35.55	41.28	53.24	74.00	-20.76	peak



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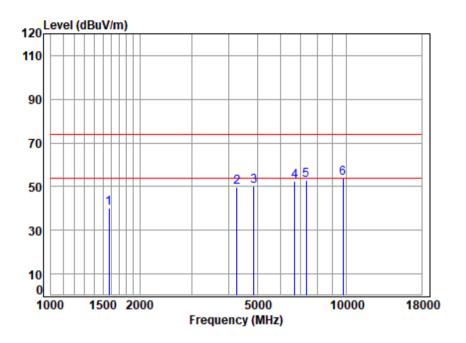


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 67 of 110

Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 01871AT/01872AT

Mode : 2437 TX RSE

: 2.4G WIFI 11N20

		Freq			Preamp Factor		Level			Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1574.265	3.34	26.19	36.69	47.30	40.14	74.00	-33.86	peak
2		4267.237	6.55	33.60	34.52	44.28	49.91	74.00	-24.09	peak
3		4874.000	7.10	34.05	34.91	43.78	50.02	74.00	-23.98	peak
4		6698.373	8.27	35.60	35.66	44.23	52.44	74.00	-21.56	peak
5		7311.000	8.61	35.90	35.97	44.35	52.89	74.00	-21.11	peak
6	q	9748.000	10.45	37.20	35.56	41.70	53.79	74.00	-20.21	peak



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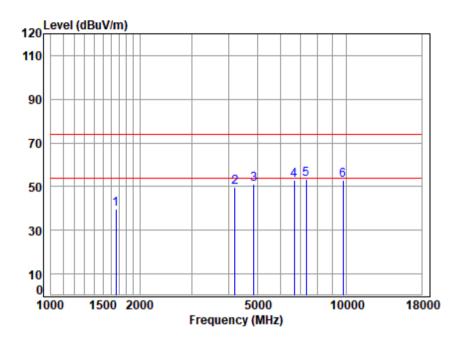


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 68 of 110

Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 01871AT/01872AT

Mode : 2437 TX RSE

: 2.4G WIFI 11N20

				_					
		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	3.45	26.73	36.48	45.82	39.52	74.00	-34.48	peak
2	4193.872	6.48	33.36	34.47	44.45	49.82	74.00	-24.18	peak
3	4874.000	7.10	34.05	34.91	44.93	51.17	74.00	-22.83	peak
4	6659.763	8.27	35.60	35.63	44.57	52.81	74.00	-21.19	peak
5 q	7311.000	8.61	35.90	35.97	44.82	53.36	74.00	-20.64	peak
6	9748.000	10.45	37.20	35.56	41.06	53.15	74.00	-20.85	peak



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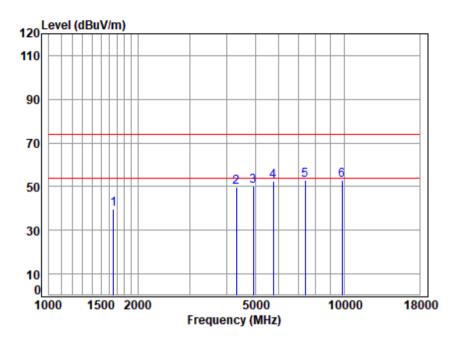


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Report No.: SZCR230600187104

Page: 69 of 110

Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 01871AT/01872AT Mode : 2462 TX RSE

: 2.4G WIFI 11N20

			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		1653.550	3.43	26.71	36.51	45.84	39.47	74.00	-34.53	peak
2		4316.859								•
3					34.94					•
4		5746.982								•
5		7386.000								•
6	q	9848.000								•



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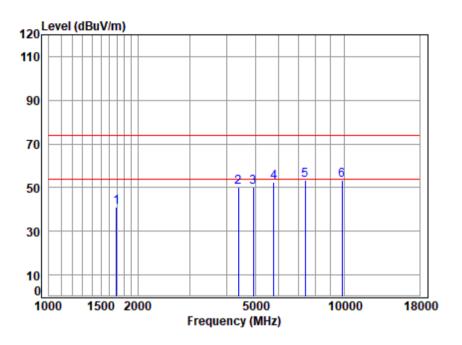


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 70 of 110

Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 01871AT/01872AT

Mode : 2462 TX RSE

: 2.4G WIFI 11N20

				_					
		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	1692.231	3.48	26.78	36.42	47.04	40.88	74.00	-33.12	peak
2	4392.376	6.67	33.52	34.60	44.74	50.33	74.00	-23.67	peak
3	4924.000	7.15	34.15	34.94	43.86	50.22	74.00	-23.78	peak
4	5780.300	7.97	34.56	35.03	44.79	52.29	74.00	-21.71	peak
5 (7386.000	8.68	35.90	35.98	44.73	53.33	74.00	-20.67	peak
6	9848.000	10.49	37.30	35.57	41.04	53.26	74.00	-20.74	peak



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

Report No.: SZCR230600187104

Page: 71 of 110

Test Setup Photo 8

Refer to Appendix - Test Setup Photo for SZCR2306001871AT

EUT Constructional Details (EUT Photos) 9

Refer to Appendix - External and Internal Photos for SZCR2306001871AT



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

Report No.: SZCR230600187104

Page: 72 of 110

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 (%)							
		2412	8.610	8.707	98.89	0.05	0.04							
802.11b	SISO	2437	8.606	8.703	98.89	0.05	0.04							
		2462	8.607	8.703	98.90	0.05	0.04							
	SISO	2412	1.429	1.531	93.34	0.30	0.03							
802.11g		2437	1.428	1.531	93.27	0.30	0.03							
		2462	1.428	1.531	93.27	0.30	0.03							
000.44		2412	1.337	1.438	92.98	0.32	0.00							
802.11n (HT20)	SISO	2437	1.337	1.439	92.91	0.32	0.03							
(11120)		2462	1.338	1.439	92.98	0.32	0.03							



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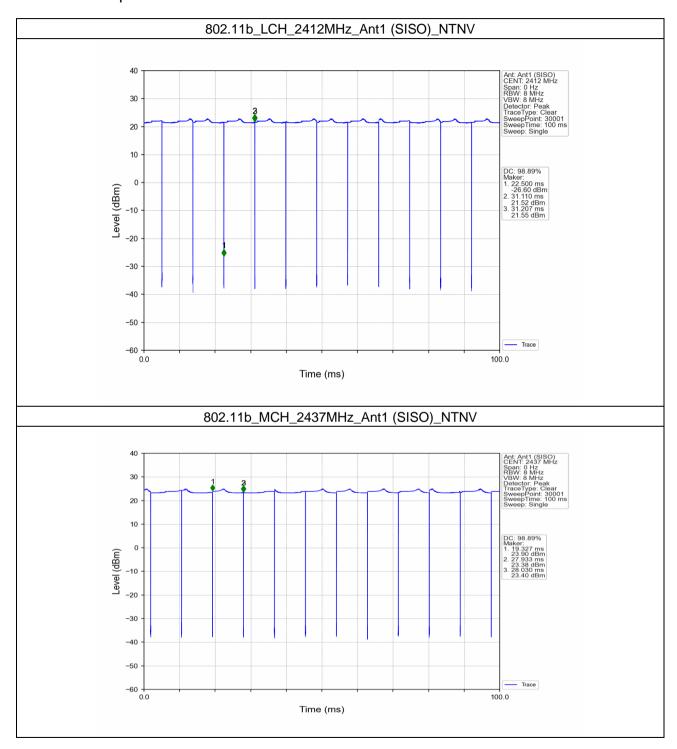


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Page: 73 of 110

1.1.2 Test Graph





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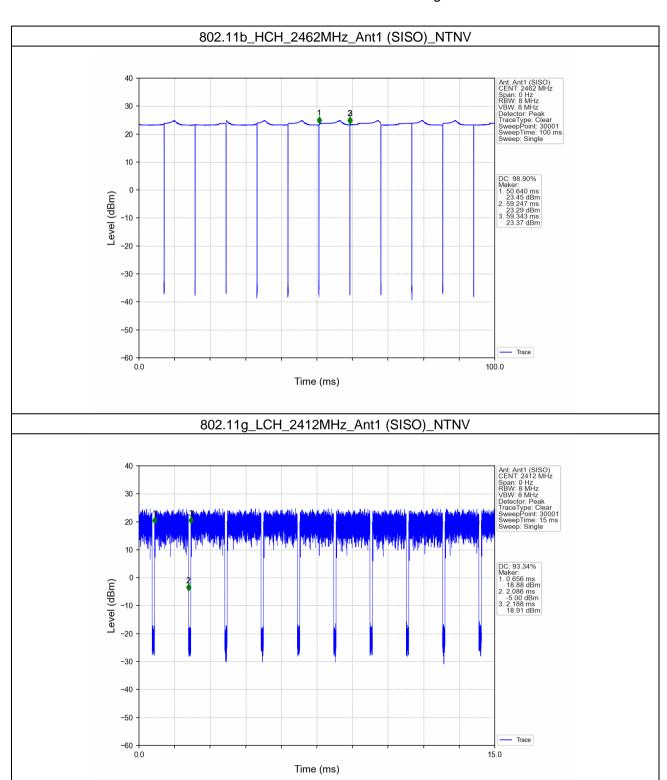
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Page: 74 of 110





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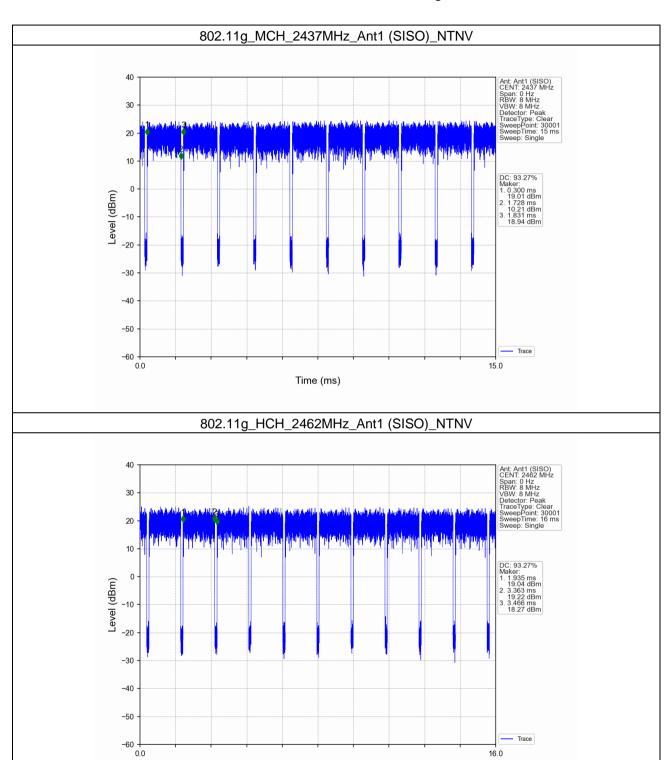
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Report No.: SZCR230600187104

Page: 75 of 110





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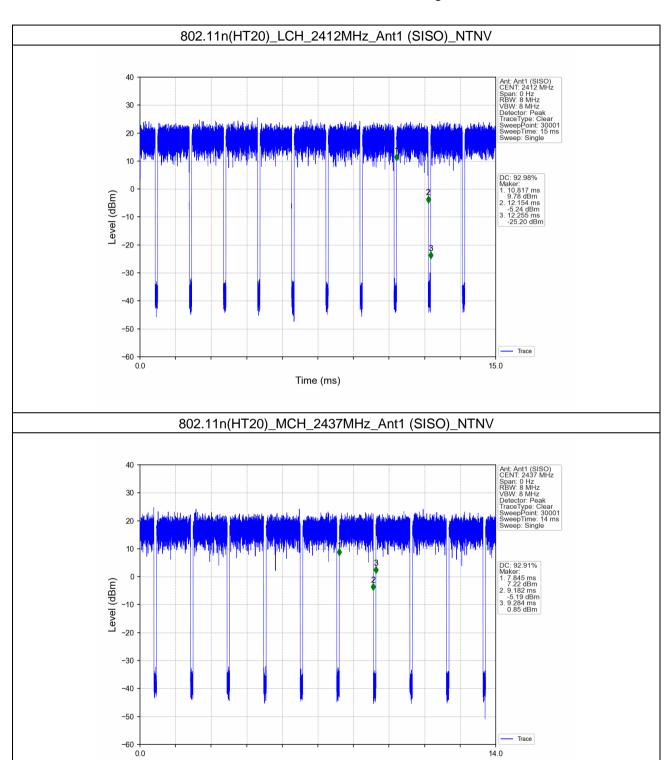
Time (ms)



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

Report No.: SZCR230600187104

Page: 76 of 110





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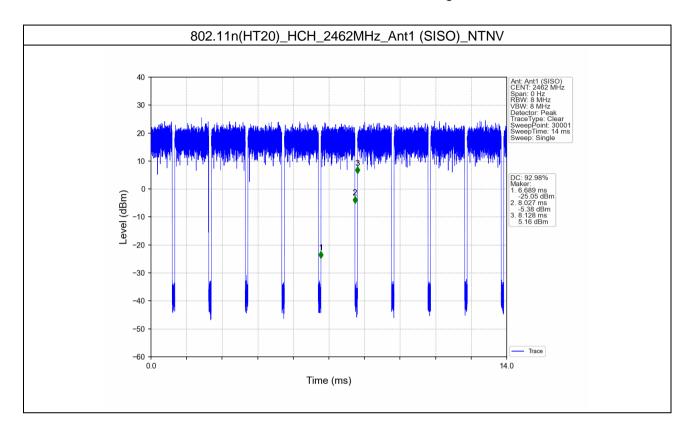
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 78 of 110

2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX	Frequency	ANT	99% Occupied Bandwidth (MHz)	Verdict
	Type	(MHz)	ANI	Result	
		2412	1	12.107	Pass
802.11b	SISO	2437	1	12.339	Pass
		2462	1	12.376	Pass
		2412	1	17.865	Pass
802.11g	SISO	2437	1	18.301	Pass
		2462	1	17.829	Pass
802.11n (HT20)		2412	1	18.764	Pass
	SISO	2437	1	18.963	Pass
		2462	1	18.671	Pass



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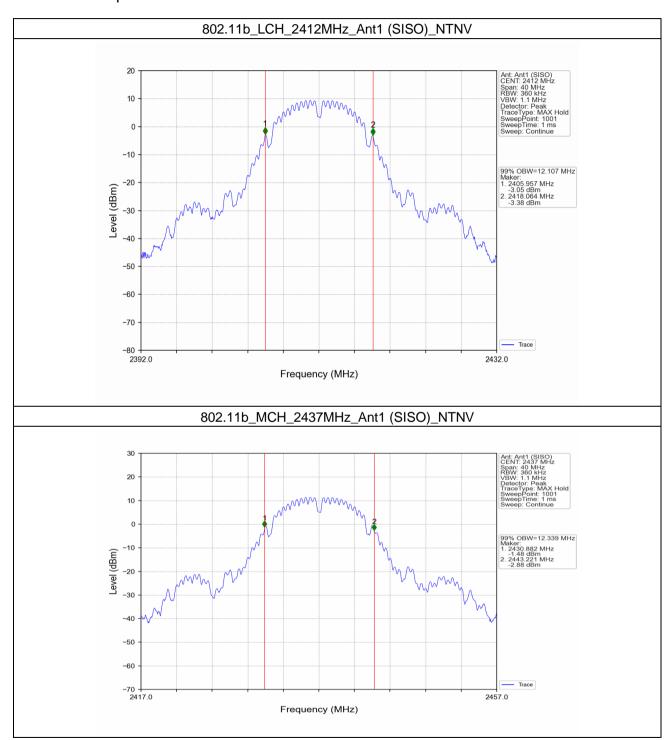


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 79 of 110

2.1.2 Test Graph





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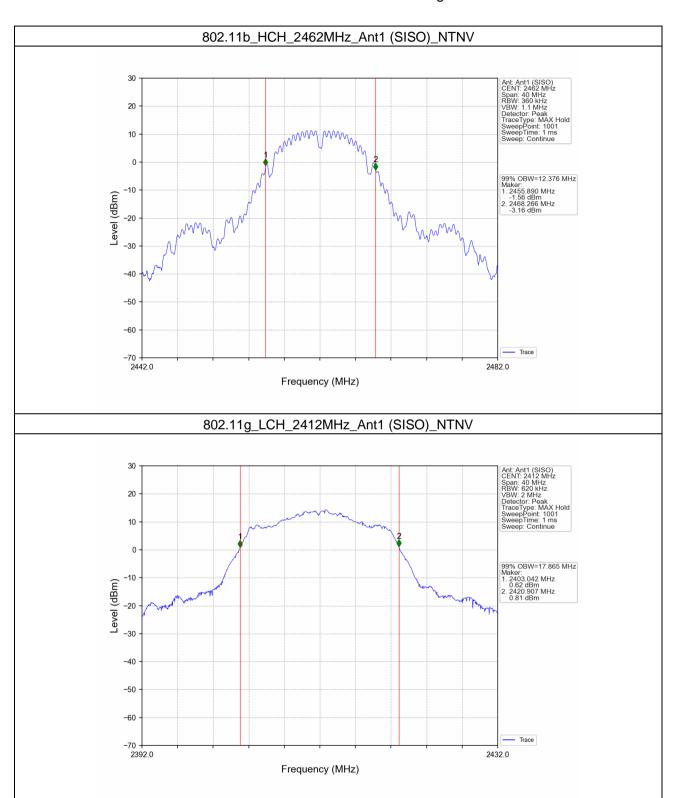
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 80 of 110





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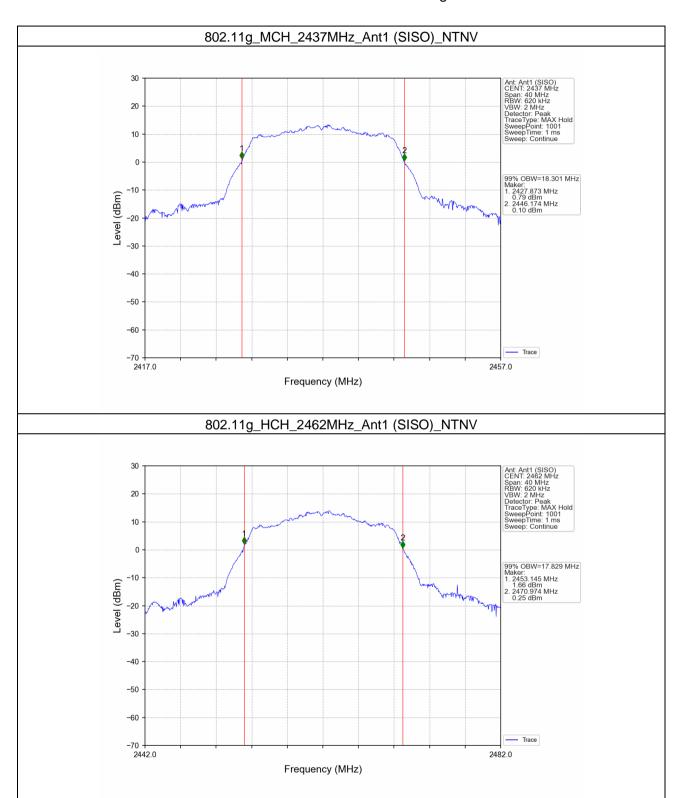
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 81 of 110





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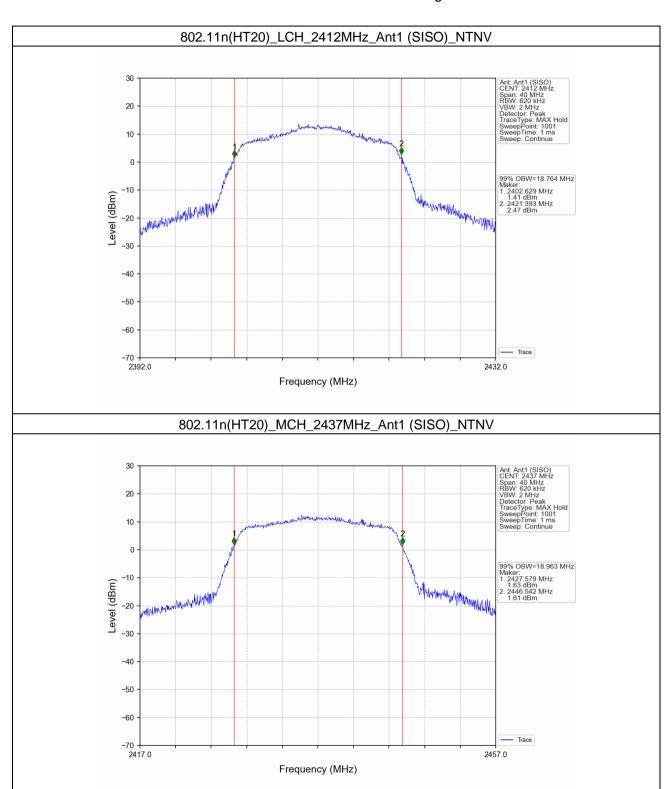
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 82 of 110





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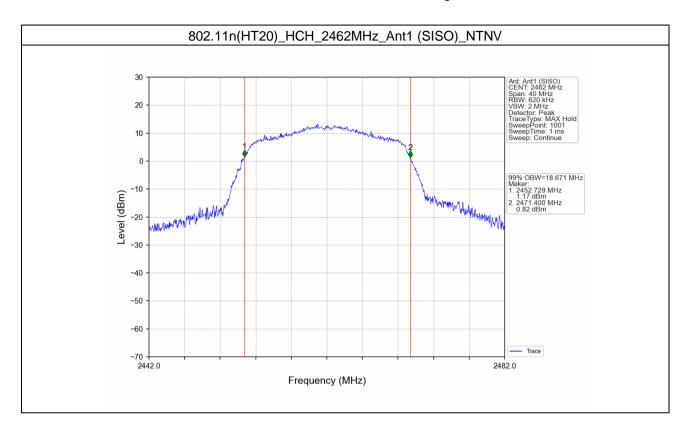
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 83 of 110





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

Report No.: SZCR230600187104

Page: 84 of 110

2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		\/o =diot
				Result	Limit	Verdict
802.11b		2412	1	9.072	>=0.5	Pass Pass
	SISO	2437	1	8.598	>=0.5	
		2462	1	9.091	>=0.5	Pass
802.11g		2412	1	15.240	>=0.5	Pass
	SISO	2437	1	16.328	>=0.5	Pass Pass
		2462	1	15.220	>=0.5	
802.11n (HT20)		2412	1	15.250	>=0.5	Pass
	SISO	2437	1	17.061	>=0.5	Pass
		2462	1	15.227	>=0.5	Pass Pass Pass Pass



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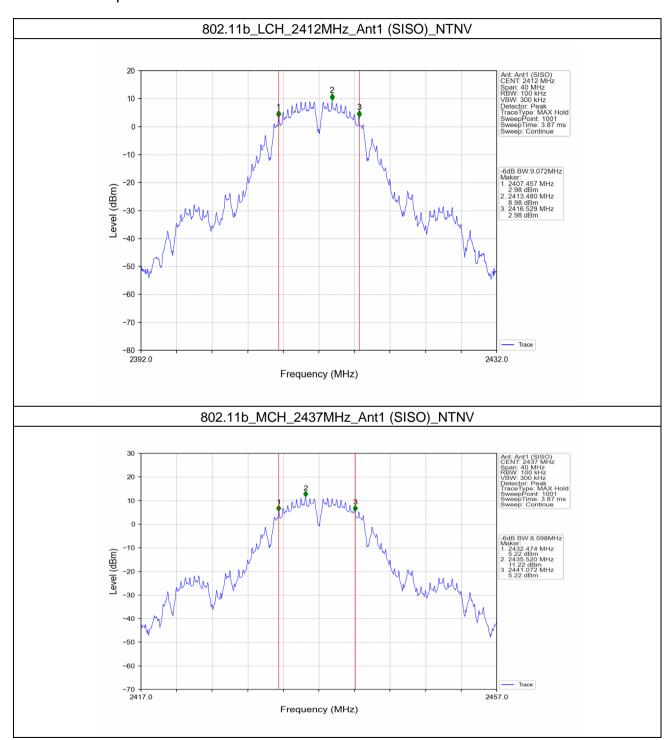


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 85 of 110

2.2.2 Test Graph





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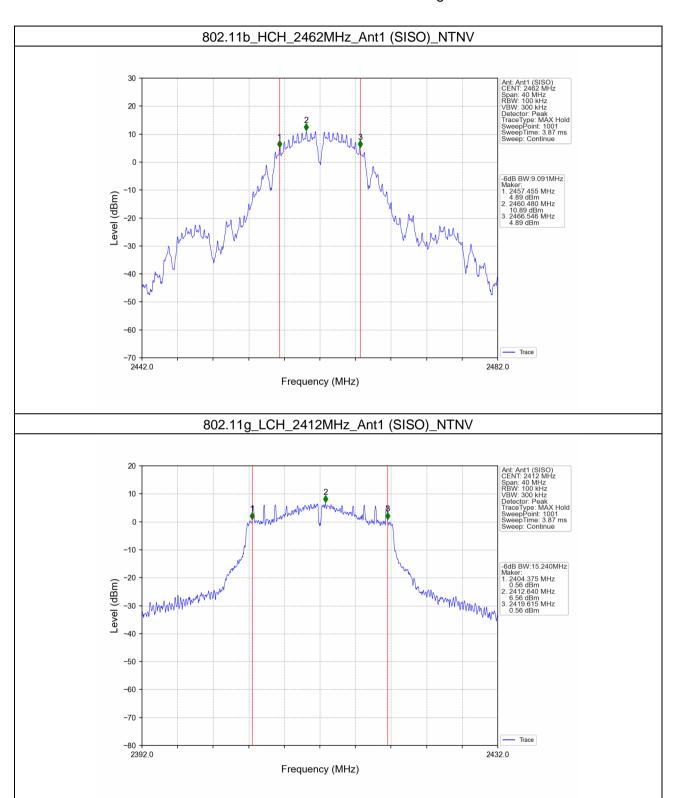
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Page: 86 of 110





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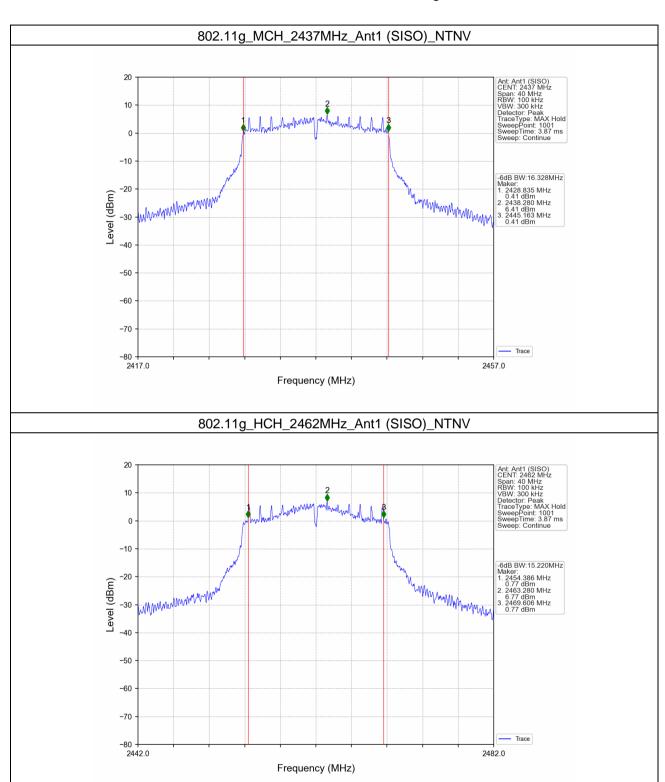
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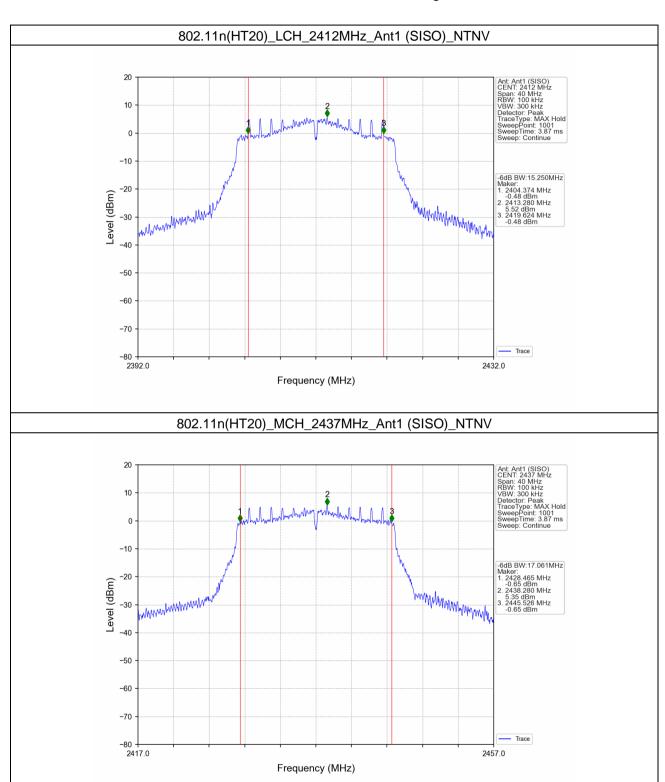
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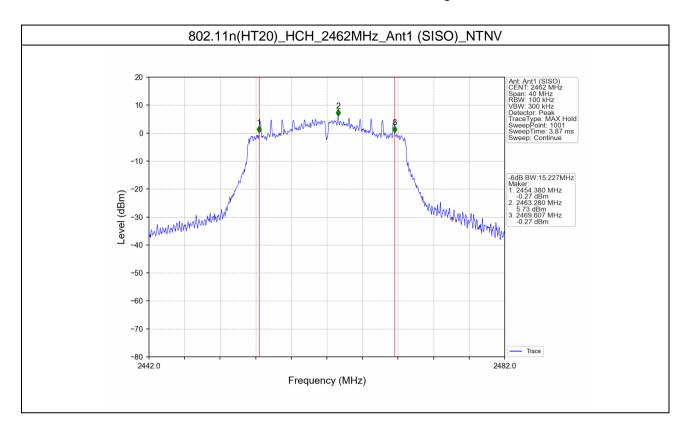
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Report No.: SZCR230600187104

Page: 89 of 110





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

Report No.: SZCR230600187104

Page: 90 of 110

3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Co (dE	Verdict	
			ANT1	Limit	
802.11b		2412	19.56	<=30	Pass
	SISO	2437	19.58	<=30	Pass
		2462	19.54	<=30	Pass
802.11g	SISO	2412	15.29	<=30	Pass
		2437	15.28	<=30	Pass
		2462	15.37	<=30	Pass
802.11n (HT20)		2412	14.54	<=30	Pass
	SISO	SISO 2437 14.49	14.49	<=30	Pass
		2462	14.64	<=30	Pass

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX	Frequency (MHz)	Maximum PS	Verdict	
	Type		ANT1	Limit	verdict
802.11b		2412	-1.24	<=8	Pass
	SISO	2437	-2.75	<=8	Pass
		2462	-3.73	<=8	Pass
802.11g	SISO	2412	-8.54	<=8	Pass
		2437	-8.40	<=8	Pass
		2462	-8.70	<=8	Pass
802.11n (HT20)		2412	-8.89	<=8	Pass
	SISO	2437	-10.11	<=8 Pa	Pass
		2462	-9.42	<=8	Pass



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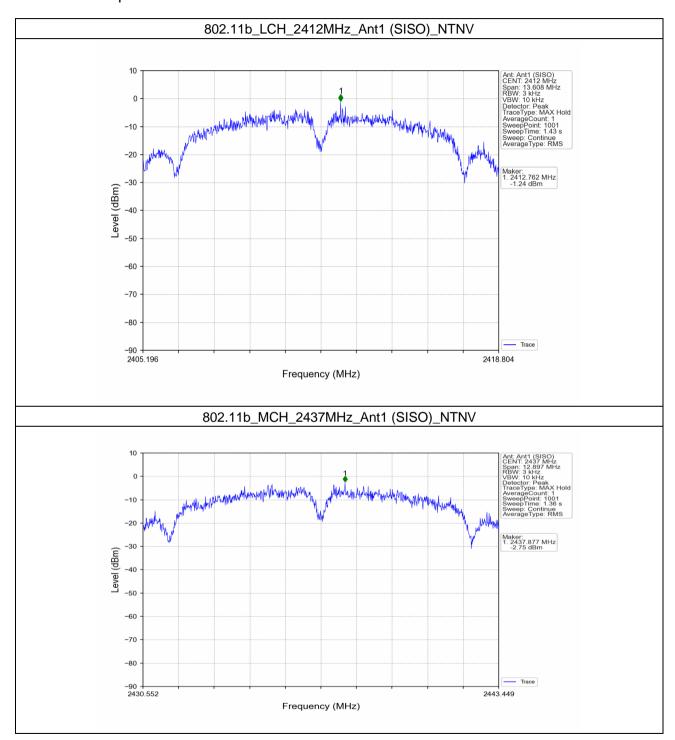


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 91 of 110

4.1.2 Test Graph





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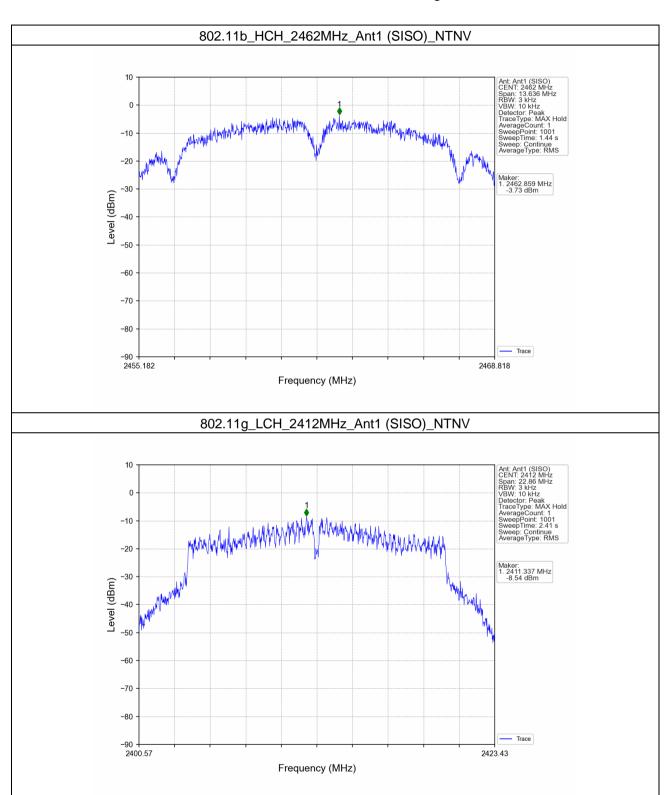
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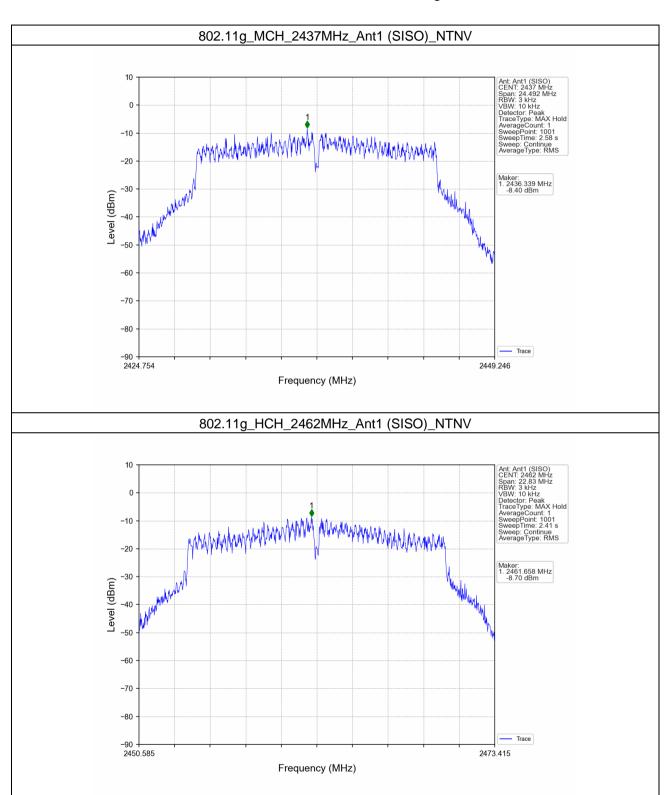
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Report No.: SZCR230600187104

Page: 93 of 110





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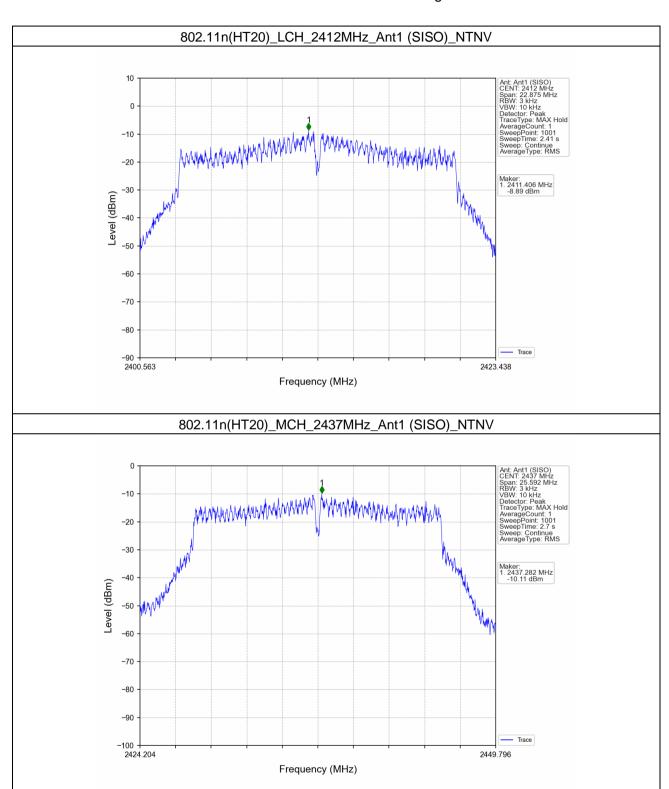
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 94 of 110





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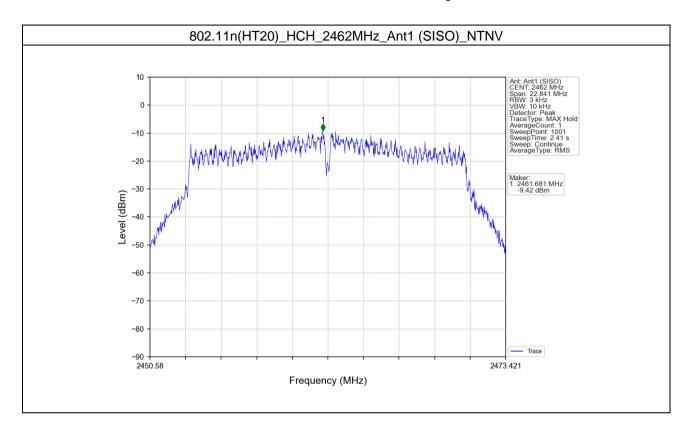
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Report No.: SZCR230600187104

Page: 95 of 110





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

Report No.: SZCR230600187104

Page: 96 of 110

5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2412	1	11.07
802.11b	SISO	2437	1	11.03
		2462	1	11.28
	SISO	2412	1	6.55
802.11g		2437	1	6.39
		2462	1	6.36
802.11n (HT20)		2412	1	5.46
	SISO	2437	1	5.32
		2462	1	5.67



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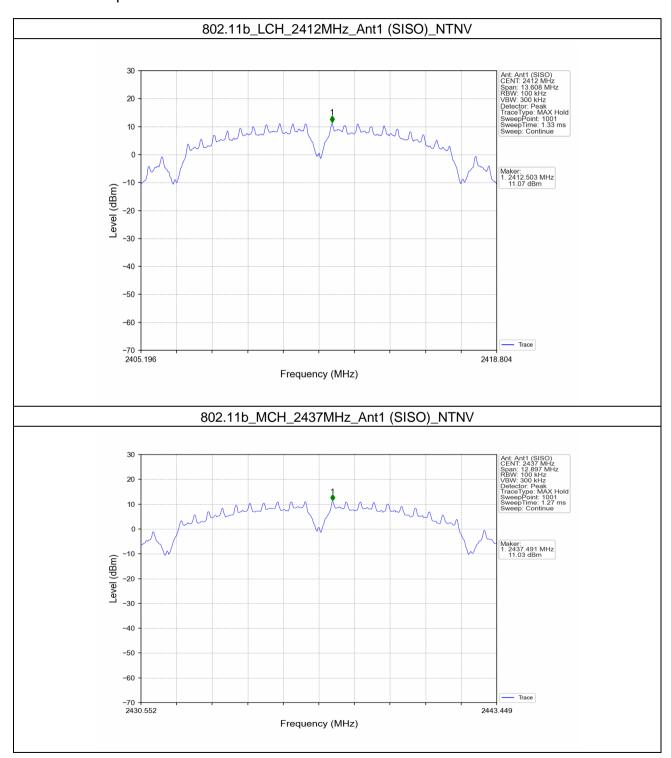


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 97 of 110

5.1.2 Test Graph





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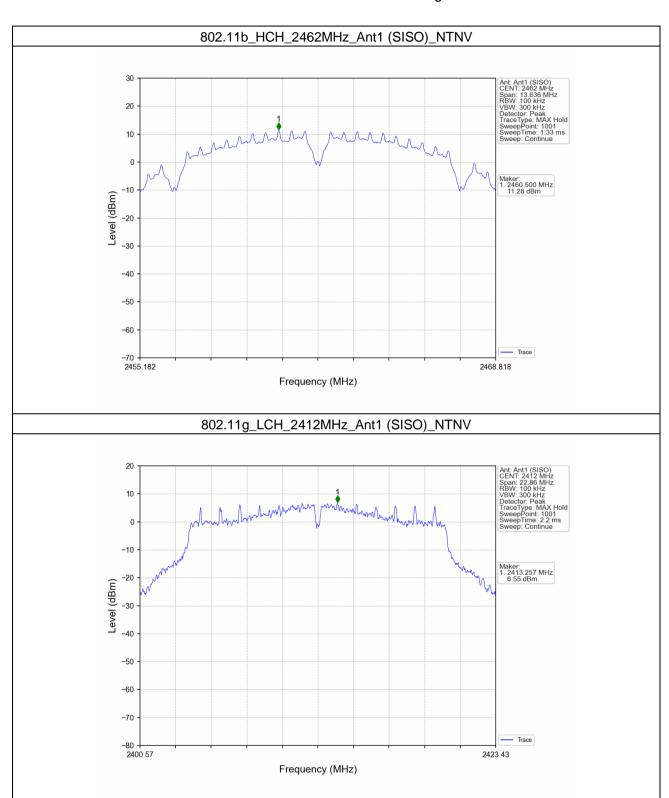
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Page: 98 of 110





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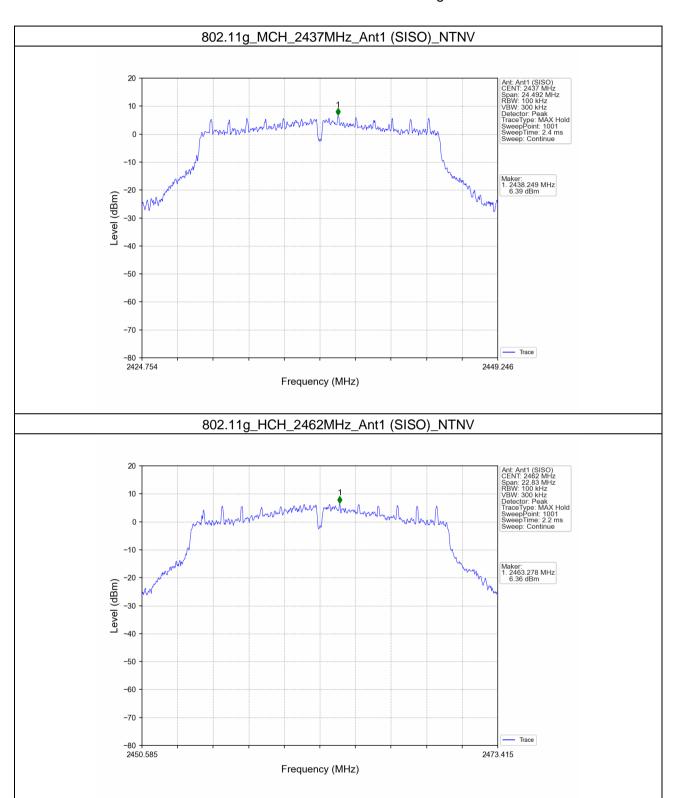
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Page: 99 of 110





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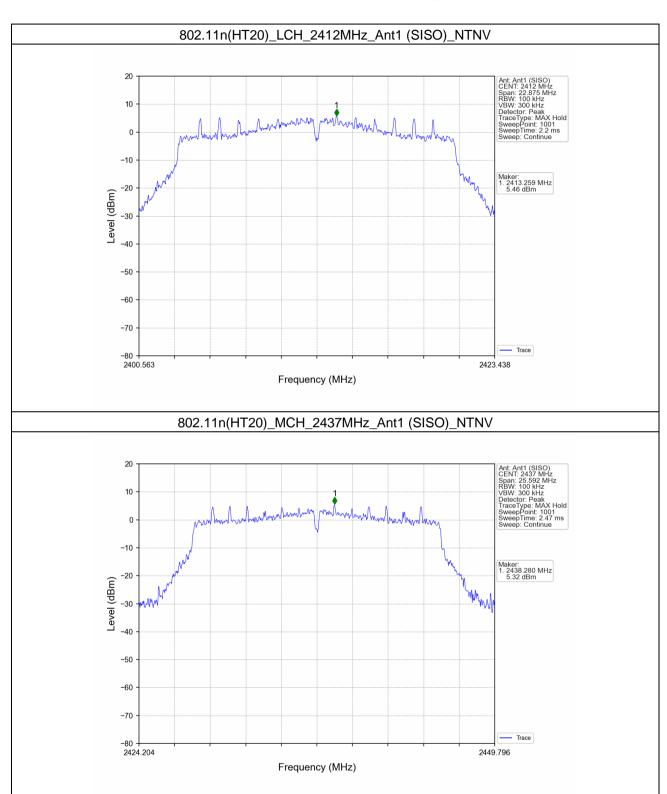
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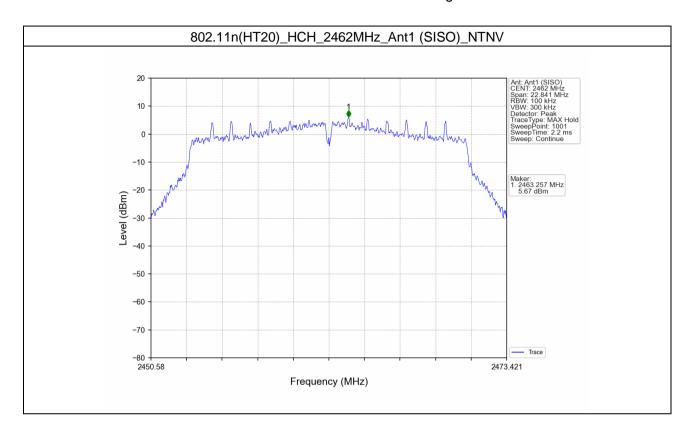
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 102 of 110

5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2412	1	11.07	-18.93	Pass
802.11b	SISO	2437	1	11.03	-18.97	Pass
		2462	1	11.28	-18.72	Pass
802.11g		2412	1	6.55	-23.45	Pass
	SISO	2437	1	6.39	-23.61	Pass
		2462	1	6.36	-23.64	Pass
802.11n (HT20)		2412	1	5.46	-24.54	Pass
	SISO	2437	1	5.32	-24.68	Pass
		2462	1	5.67	-24.33	Pass



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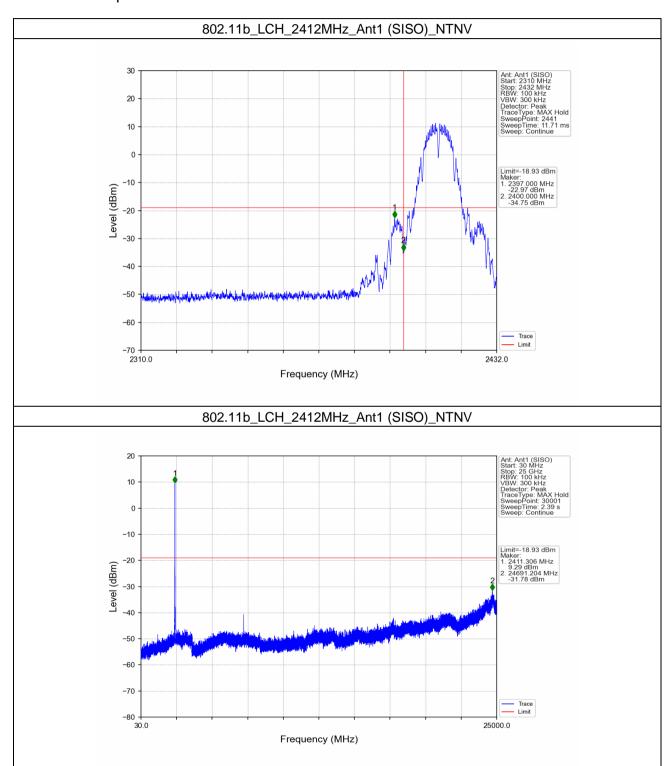


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5.2.2 Test Graph





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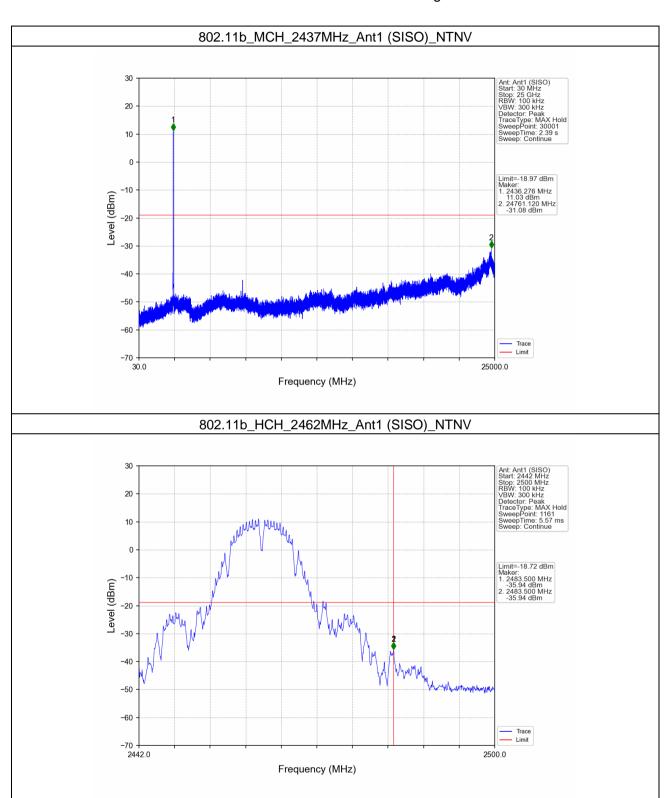
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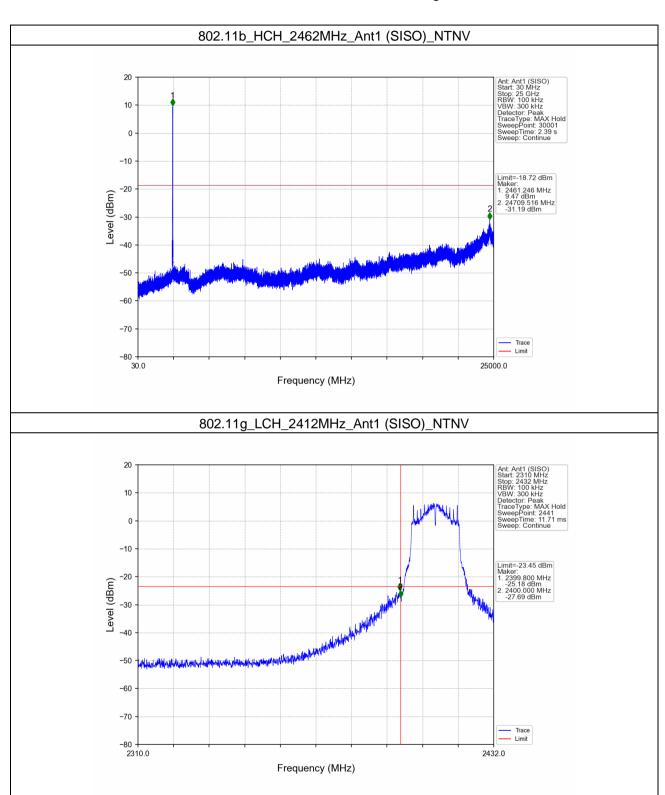
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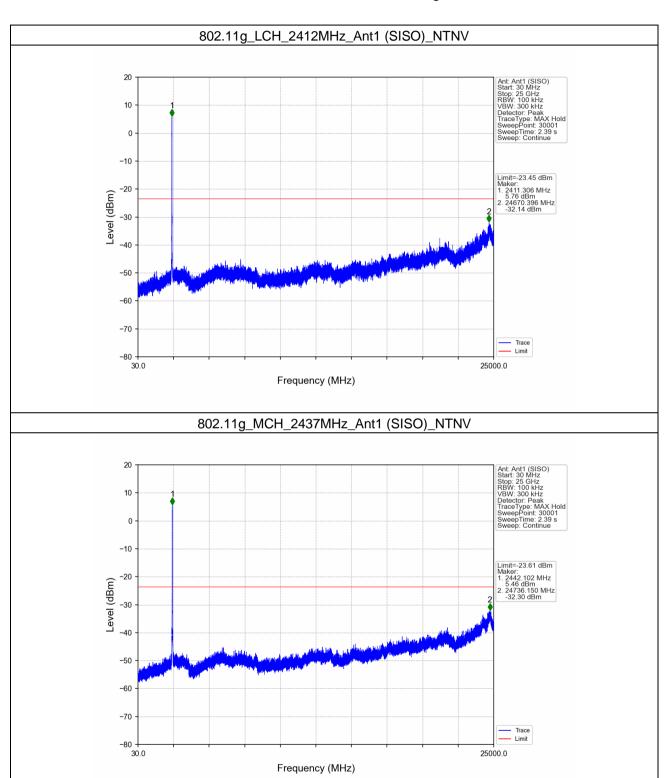
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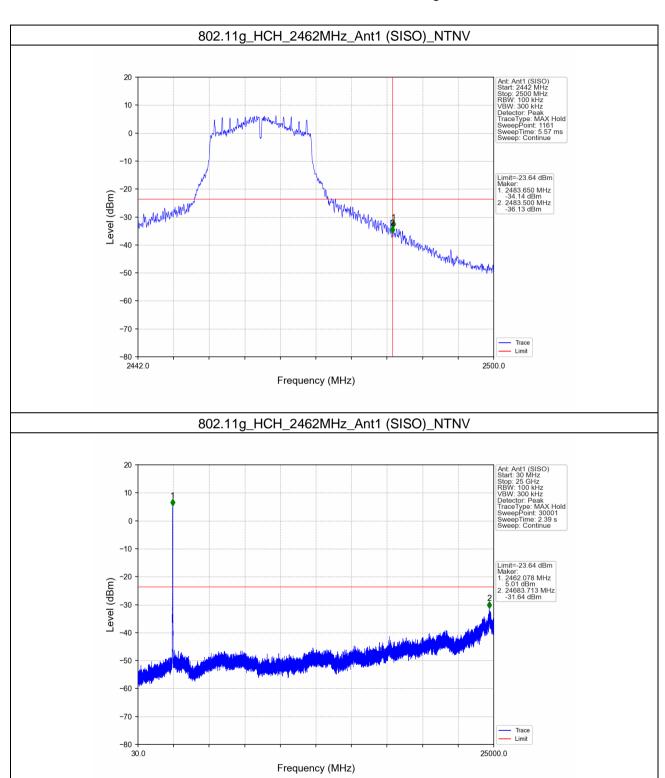
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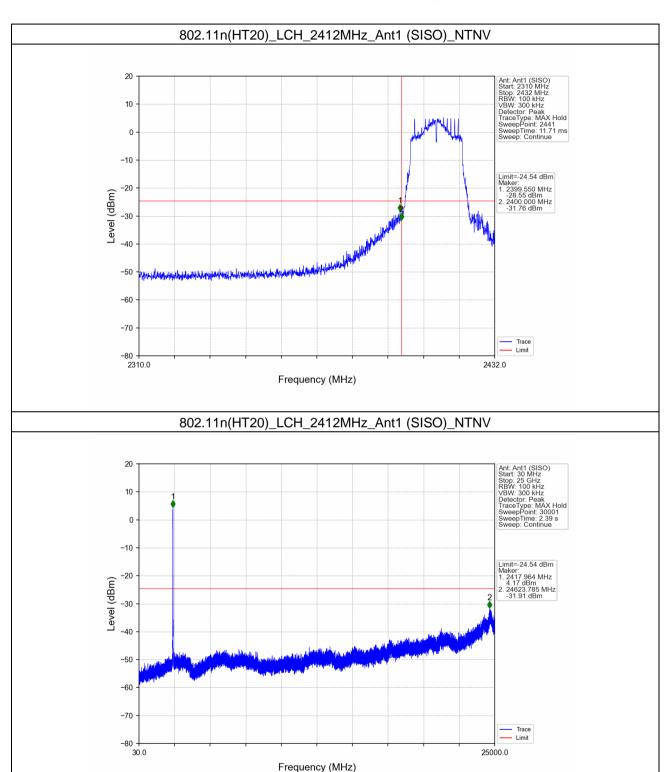
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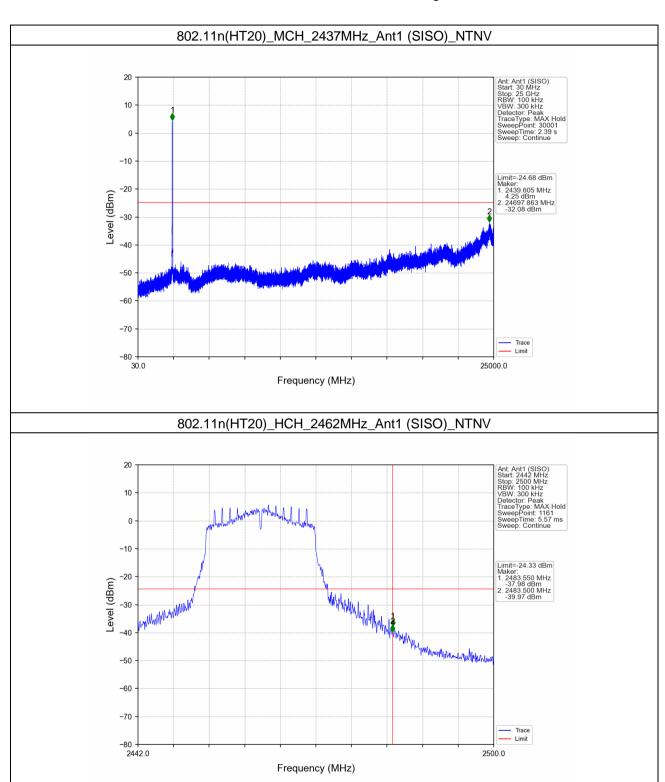
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600187104

Page: 109 of 110





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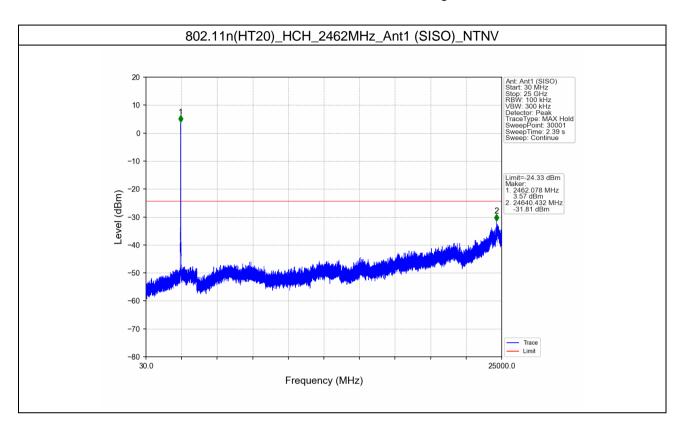
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Page: 110 of 110



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