

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200458103

> Page: 1 of 135

# TEST REPORT

**Application No.:** SZCR2412004581AT **Applicant:** LOCKIN (U.S.) INC.

**Address of Applicant:** 8605 SANTA MONICA BLVD #79525 WEST HOLLYWOOD, CA 90069-

4109 CALIFORNIA 90069-4109 United States

Manufacturer: LOCKIN (U.S.) INC.

Address of Manufacturer: 8605 SANTA MONICA BLVD #79525 WEST HOLLYWOOD, CA 90069-

4109 CALIFORNIA 90069-4109 United States

**Factory:** Chongging Luxiangija Technology Co., Ltd.

Address of Factory: No.50 Industrial Avenue, Pulu Street, Tongliang District, Chongqing, P.R.

China

**Equipment Under Test (EUT):** 

Veno Pro Palm Vein Recognition Video Smart Lock **EUT Name:** 

Model No.: LKMSD411 LOCKIN Trade Mark:

FCC ID: 2BMOG-LKMSD411

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

Date of Receipt: 2024-12-05

2025-01-17 to 2025-02-18 **Date of Test:** 

Date of Issue: 2025-02-24

Test Result: Pass\*

Keny Xu **EMC** Laboratory Manager

Ceny. Ku



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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 2 of 135

	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2025-02-24		Original			

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



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 3 of 135

#### 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	
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	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	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		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 4 of 135

### 3 Contents

		Page
1	1 Cover Page	1
2	2 Test Summary	3
3	3 Contents	,
3	5 Contents	
4	4 General Information	6
	4.1 Details of E.U.T	€
	4.2 Description of Support Units	ε
	4.3 Measurement Uncertainty	7
	4.4 Test Location	8
	4.5 Test Facility	
	4.6 Deviation from Standards	
	4.7 Abnormalities from Standard Conditions	8
5	5 Equipment List	g
_		
6	·	
	6.1 Antenna Requirement	
	6.1.1 Test Requirement:	
	6.1.2 Conclusion	11
7	7 Radio Spectrum Matter Test Results	12
	7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	12
	7.1.1 E.U.T. Operation	
	7.1.2 Test Mode Description	12
	7.1.3 Test Setup Diagram	13
	7.1.4 Measurement Procedure and Data	13
	7.2 Radiated Emissions which fall in the restricted bands	
	7.2.1 E.U.T. Operation	
	7.2.2 Test Mode Description	
	7.2.3 Test Setup Diagram	
	7.2.4 Measurement Procedure and Data	
	7.3 Radiated Spurious Emissions Below 1GHz	
	7.3.1 E.U.T. Operation	
	7.3.2 Test Mode Description	51
	7.3.3 Test Setup Diagram	
	7.3.4 Measurement Procedure and Data	
	7.4 Radiated Spurious Emissions Above 1GHz	
	7.4.1 E.U.T. Operation	
	7.4.2 Test Mode Description	
	7.4.4 Measurement Precedure and Date	
	7.4.4 Measurement Procedure and Data	
	7.5 Conducted Peak Output Power	
	7.5.1 E.U.T. Operation	02



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 5 of 135

	7.5.2	Test Mode Description	82
	7.5.3	Test Setup Diagram	83
	7.5.4	Measurement Procedure and Data	83
7.	6 N	Minimum 6dB Bandwidth	84
	7.6.1	E.U.T. Operation	84
	7.6.2	Test Mode Description	84
	7.6.3	Test Setup Diagram	84
	7.6.4	Measurement Procedure and Data	84
7.	7 F	Power Spectrum Density	85
	7.7.1	E.U.T. Operation	85
	7.7.2	Test Mode Description	85
	7.7.3	Test Setup Diagram	85
	7.7.4	Measurement Procedure and Data	85
7.	8 0	Conducted Band Edges Measurement	86
	7.8.1	E.U.T. Operation	86
	7.8.2	Test Mode Description	86
	7.8.3	Test Setup Diagram	87
	7.8.4	Measurement Procedure and Data	87
7.	9 (	Conducted Spurious Emissions	88
	7.9.1	E.U.T. Operation	88
	7.9.2	Test Mode Description	88
	7.9.3	Test Setup Diagram	89
	7.9.4	Measurement Procedure and Data	89
8	Test S	Setup Photo	90
9	EUT C	Constructional Details (EUT Photos)	90
10	Apper	ndix	91

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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200458103

> Page: 6 of 135

### **General Information**

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

Power supply:	Rechargeable Li-ion Battery Pack		
	Model:LKBAA554		
Nominal Voltage:DC 7.4V			
	Rated Capacity:5000mAh		
	Nominal Energy:37Wh		
RF cable(Provided by the customer):	0.5dB		
Operation Frequency:	802.11b/g/n(HT20) /ax(HE20): 2412MHz to 2462MHz		
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK), 802.11g/n/ax: OFDM (64QAM, 16QAM, QPSK, BPSK)		
Number of Channels:	802.11b/g/n(HT20) /ax(HE20):11		
Channel Spacing:	5MHz		
Antenna Type:	Dipole Antenna		
Antenna Gain:	3.24dBi		

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

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	HUAWEI	HW-050200E01	REF. No.SEA05E03F
Type-C Cable	SGS	N/A	REF. No.SEA07B00



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 7 of 135

### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
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)
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
Description	

#### Remark:

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

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



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200458103

> Page: 8 of 135

#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz. 10m Semi-anechoic chamber for below 1GHz. Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

### • FCC -Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

#### Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 9 of 135

#### 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	ESR	SZ-WRG-M- 047	2025-01-8	2026-01-7
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14

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



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 10 of 135

Radiated Spurious Emis	ssions Above 1GHz				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14

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

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



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200458103

> Page: 11 of 135

## Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

### 6.1.1 Test Requirement:

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

### 6.1.2 Conclusion

Standard Requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.EUT Antenna: The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.24 dBi.Antenna location: Refer to internal photo.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 12 of 135

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

### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.7 °C Atmospheric Pressure: 1020 mbar Humidity: 36.9 % RH

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Charge + 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); data rate @ 8.6Mbps is the worst case of IEEE 802.11ax(HE20). Only the data of worst case is recorded in the report.



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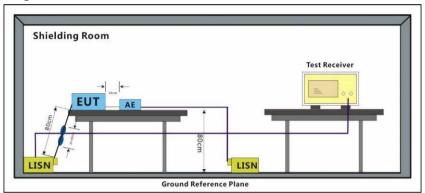
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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200458103

> Page: 13 of 135

### 7.1.3 Test Setup Diagram



#### 7.1.4 Measurement Procedure and Data

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

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



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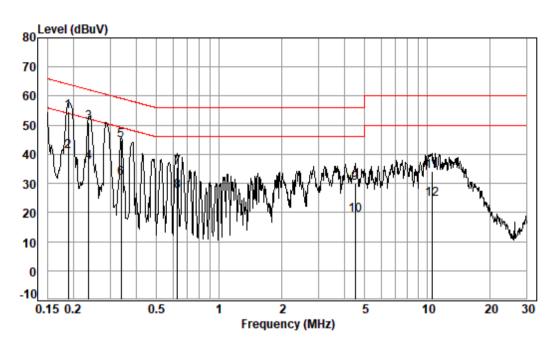


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 14 of 135

Test Mode: 05: Line: Live line



: Shielding Room

Condition: Line Job No. : 04581AT

Test mode: 05

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	*	0.1894	0.06	10.13	44.39	54.58	64.06	-9.48	QP
2	*	0.1894	0.06	10.13	30.81	41.00	54.06	-13.06	Average
3		0.2366	0.06	10.01	40.81	50.88	62.22	-11.34	QP
4		0.2366	0.06	10.01	27.13	37.20	52.22	-15.02	Average
5		0.3392	0.07	9.78	34.85	44.70	59.22	-14.52	QP
6		0.3392	0.07	9.78	21.90	31.75	49.22	-17.47	Average
7		0.6305	0.08	9.62	25.93	35.63	56.00	-20.37	QP
8		0.6305	0.08	9.62	17.57	27.27	46.00	-18.73	Average
9		4.5015	0.12	9.66	20.32	30.10	56.00	-25.90	QP
10		4.5015	0.12	9.66	9.17	18.95	46.00	-27.05	Average
11		10.4524	0.21	9.72	24.06	33.99	60.00	-26.01	QP
12		10.4524	0.21	9.72	14.63	24.56	50.00	-25.44	Average



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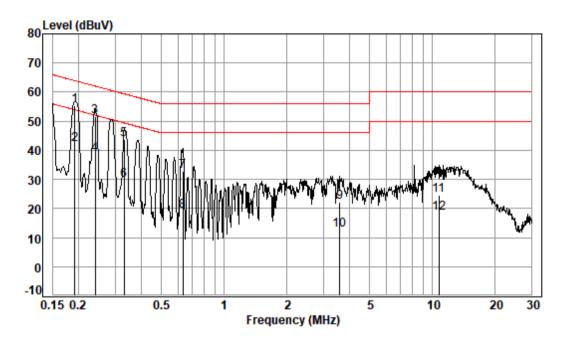


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Report No.: SZCR241200458103

Page: 15 of 135

Test Mode: 05: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 04581AT

Test mode: 05

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	*	0.1924	0.06	10.09	45.05	55.20	63.93	-8.73	QP
2	*	0.1924	0.06	10.09	31.95	42.10	53.93	-11.83	Average
3		0.2416	0.07	9.94	41.74	51.75	62.04	-10.29	QP
4		0.2416	0.07	9.94	28.56	38.57	52.04	-13.47	Average
5		0.3321	0.07	9.76	33.80	43.63	59.40	-15.77	QP
6		0.3321	0.07	9.76	20.02	29.85	49.40	-19.55	Average
7		0.6338	0.08	9.67	23.05	32.80	56.00	-23.20	QP
8		0.6338	0.08	9.67	9.50	19.25	46.00	-26.75	Average
9		3.5843	0.11	9.55	12.45	22.11	56.00	-33.89	QP
10		3.5843	0.11	9.55	2.93	12.59	46.00	-33.41	Average
11		10.7330	0.21	9.63	14.89	24.73	60.00	-35.27	QP
12		10.7330	0.21	9.63	8.57	18.41	50.00	-31.59	Average



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 16 of 135

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

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

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

Measurement Distance: 3m

Limit:

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

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

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Atmospheric Pressure: 1020 mbar Humidity: 56.3 % RH

### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	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); data rate @ 8.6Mbps is the worst case of IEEE 802.11ax(HE20). Only the data of worst case is recorded in the report.
Final test	05	Charge + 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); data rate @ 8.6Mbps is the worst case of IEEE 802.11ax(HE20). Only the data of worst case is recorded in the report.



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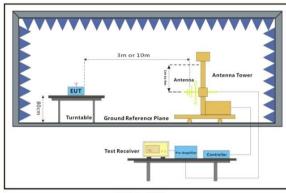


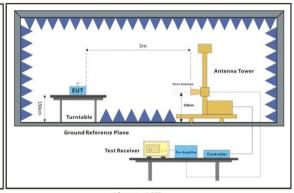
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Report No.: SZCR241200458103

Page: 17 of 135

#### 7.2.3 Test Setup Diagram





30MHz-1GHz Above 1GHz



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200458103

> Page: 18 of 135

#### 7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. 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.
- Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.



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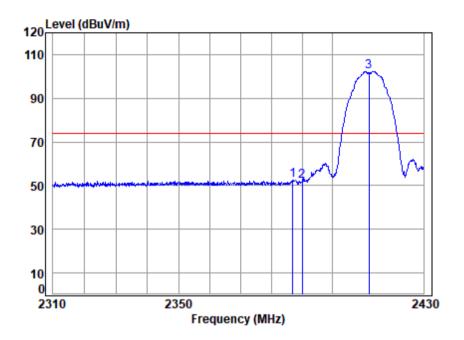


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 19 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL
Job No : 04581AT\04582AT
Mode : 2412 Band edge

: 2.4G WIFI 11B

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2386.944	15.81	29.10	32.78	40.56	52.69	74.00	-21.31	peak
2	2390.000	15.81	29.10	32.78	40.10	52.23	74.00	-21.77	peak
3 p	2412.000	15.82	29.05	32.77	90.31	102.41	74.00	28.41	peak



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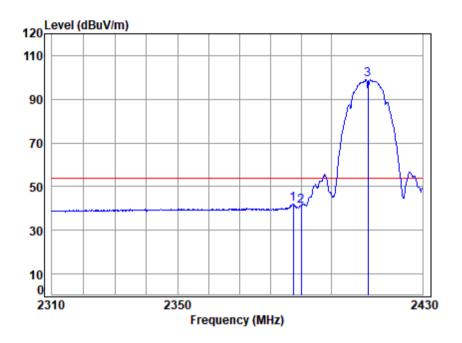


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 20 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT Mode : 2412 Band edge

: 2.4G WIFI 11B

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.428	15.81	29.10	32.78	29.85	41.98	54.00	-12.02	Average
2	2390.000	15.81	29.10	32.78	29.10	41.23	54.00	-12.77	Average
3 q	2412.000	15.82	29.05	32.77	86.84	98.94	54.00	44.94	Average



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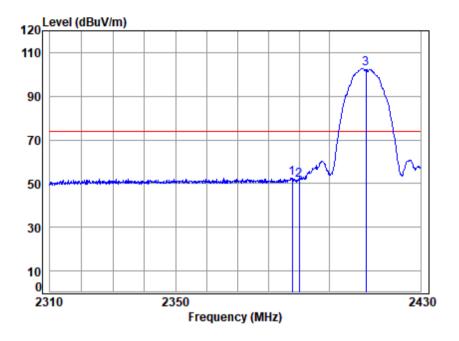


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 21 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT Mode : 2412 Band edge

· 2 4G WTET 11B

	. 2.	+O MII	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	2387.791	15.81	29.10	32.78	40.52	52.65	74.00	-21.35	Peak
2	2390.000	15.81	29.10	32.78	39.33	51.46	74.00	-22.54	Peak
3 1	2/12 000	15 82	29 05	32 77	90 69	102 79	74 99	28 79	Peak



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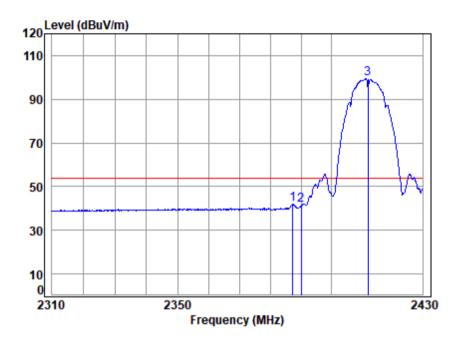


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 22 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT Mode : 2412 Band edge

: 2.4G WIFI 11B

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
2387.307 2390.000								_	
q 2412.000								_	



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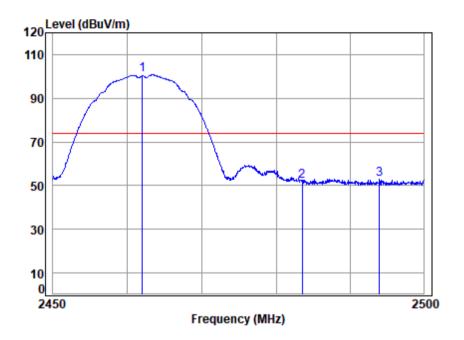


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 23 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT Mode : 2462 Band edge

· 2 4G WTET 11B

	. 2	+C MII	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 p	2462.000	15.85	28.90	32.74	88.64	100.65	74.00	26.65	peak
2	2483.500	15.86	28.90	32.73	39.90	51.93	74.00	-22.07	peak
3	2493 997	15 87	28 90	32 73	41 06	53 10	74 00	-20 90	neak



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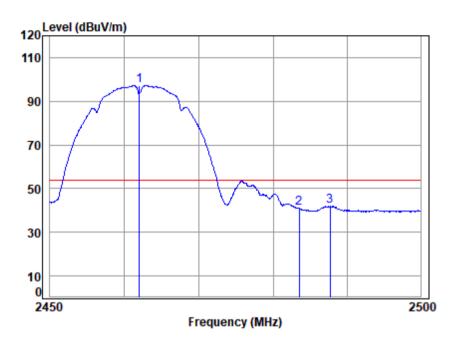


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 24 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT Mode : 2462 Band edge

: 2.4G WIFI 11B

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 0	2462.000	15.85	28.90	32.74	85.35	97.36	54.00	43.36	Average	
2	2483.500	15.86	28.90	32.73	29.13	41.16	54.00	-12.84	Average	
3	2487.707	15.86	28.90	32.73	29.83	41.86	54.00	-12.14	Average	



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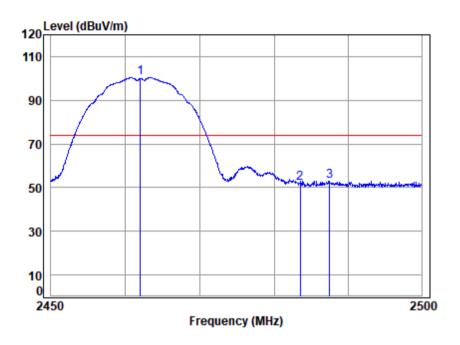


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 25 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT Mode : 2462 Band edge

· 2 4G WTET 11B

	. 2	+O MII	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	
p	2462.000	15.85	28.90	32.74	88.26	100.27	74.00	26.27	Peak
	2483.500	15.86	28.90	32.73	40.15	52.18	74.00	-21.82	Peak
	2487 506	15 86	28 90	32 73	41 07	53 10	74 99	-20 90	Peak



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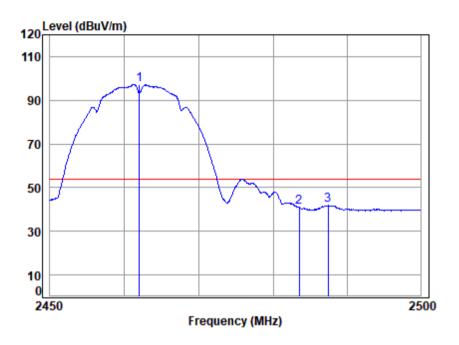


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 26 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT Mode : 2462 Band edge

: 2.4G WIFI 11B

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	15.85	28.90	32.74	85.14	97.15	54.00	43.15	Average
2	2483.500	15.86	28.90	32.73	28.82	40.85	54.00	-13.15	Average
3	2487.455	15.86	28.90	32.73	29.81	41.84	54.00	-12.16	Average



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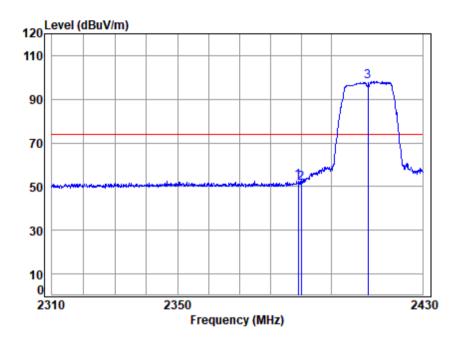


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 27 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT Mode : 2412 Band edge

: 2.4G WIFI 11G

	. 2	TO WILL	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	2389.121	15.81	29.10	32.78	40.50	52.63	74.00	-21.37	peak	
2	2390.000	15.81	29.10	32.78	39.58	51.71	74.00	-22.29	peak	
3	n 2/12 000	15 92	20 05	32 77	85 86	97 96	7/ 00	23 96	noak	



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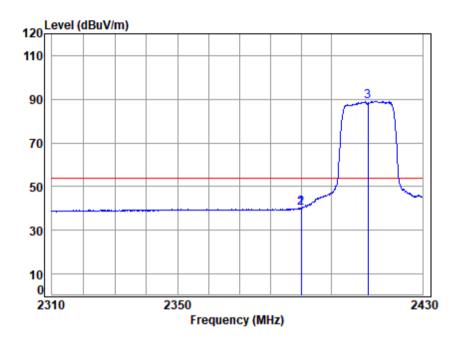


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 28 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT Mode : 2412 Band edge

: 2.4G WIFI 11G

		Freq			Preamp Factor					Remark	
	•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		2389.968	15.81	29.10	32.78	28.14	40.27	54.00	-13.73	Average	
2		2390.000	15.81	29.10	32.78	28.14	40.27	54.00	-13.73	Average	
3	q	2412.000	15.82	29.05	32.77	76.91	89.01	54.00	35.01	Average	



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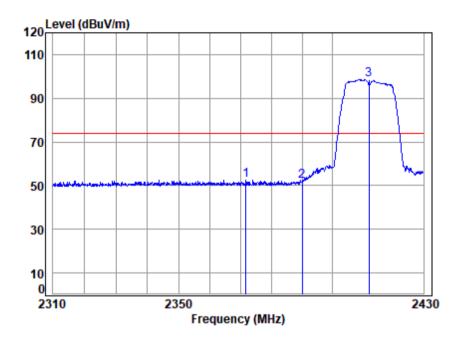


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 29 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT Mode : 2412 Band edge

· 2 4G WIFT 11G

	. 2.	+Q MIL	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	2371.761	15.80	29.10	32.79	40.58	52.69	74.00	-21.31	Peak
2	2390.000	15.81	29.10	32.78	39.68	51.81	74.00	-22.19	Peak
3 r	2412 000	15 82	29 05	32 77	86 36	98 46	74 00	24 46	Peak



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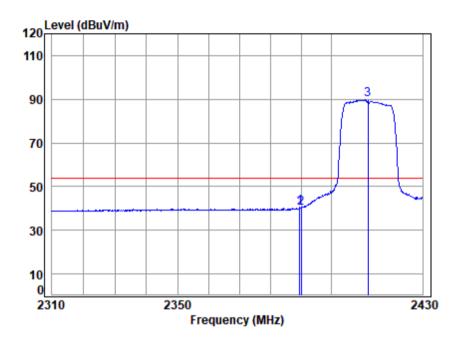


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 30 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT Mode : 2412 Band edge

: 2.4G WIFI 11G

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.605	15.81	29.10	32.78	28.31	40.44	54.00	-13.56	Average
2	2390.000	15.81	29.10	32.78	27.88	40.01	54.00	-13.99	Average
3 q	2412.000	15.82	29.05	32.77	77.62	89.72	54.00	35.72	Average



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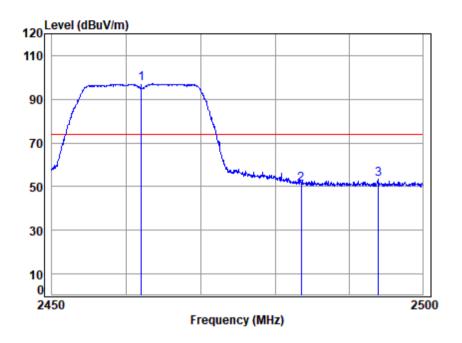


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 31 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT Mode : 2462 Band edge

: 2.4G WIFI 11G

	. 2	TO WILL	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	
p	2462.000	15.85	28.90	32.74	85.05	97.06	74.00	23.06	peak
	2483.500								-
1	2/193 997	15 87	28 90	32 73	/11 17	53 21	7/ 00	-20 79	noak



1 2

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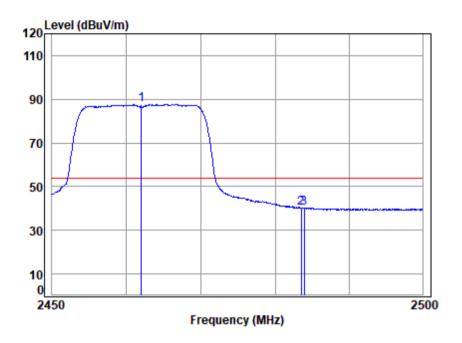


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 32 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT Mode : 2462 Band edge

: 2.4G WIFI 11G

	Freq			Preamp Factor						
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1 q	2462.000	15.85	28.90	32.74	75.77	87.78	54.00	33.78	Average	
2	2483.500	15.86	28.90	32.73	28.02	40.05	54.00	-13.95	Average	
3	2483.940	15.86	28.90	32.73	28.30	40.33	54.00	-13.67	Average	



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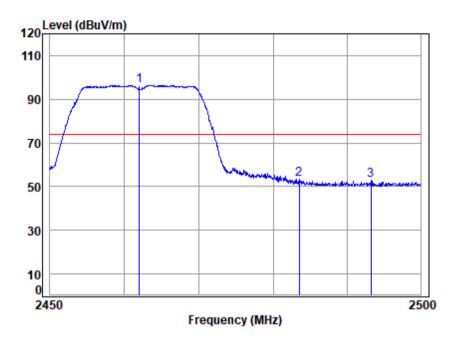


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 33 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT Mode : 2462 Band edge

: 2.4G WIFI 11G

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2462.000	15.85	28.90	32.74	84.37	96.38	74.00	22.38	Peak
2	2483.500	15.86	28.90	32.73	41.32	53.35	74.00	-20.65	Peak
3	2493.241	15.87	28.90	32.73	40.67	52.71	74.00	-21.29	Peak



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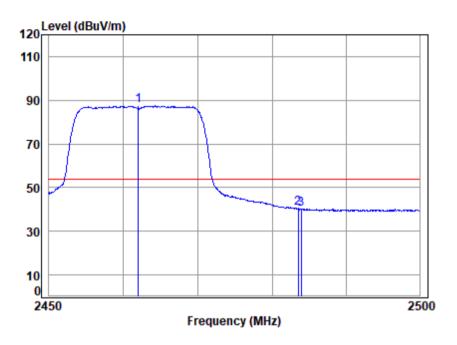


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 34 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT Mode : 2462 Band edge

: 2.4G WIFI 11G

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	15.85	28.90	32.74	75.37	87.38	54.00	33.38	Average
2	2483.500	15.86	28.90	32.73	28.38	40.41	54.00	-13.59	Average
3	2483.940	15.86	28.90	32.73	28.23	40.26	54.00	-13.74	Average



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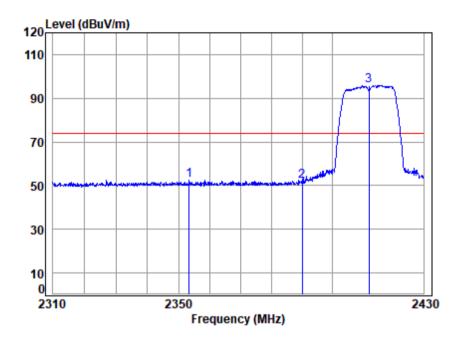


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 35 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT Mode : 2412 Band edge

: 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2353.455	15.79	29.10	32.80	40.52	52.61	74.00	-21.39	peak
2	2390.000	15.81	29.10	32.78	39.70	51.83	74.00	-22.17	peak
3 p	2412.000	15.82	29.05	32.77	83.75	95.85	74.00	21.85	peak



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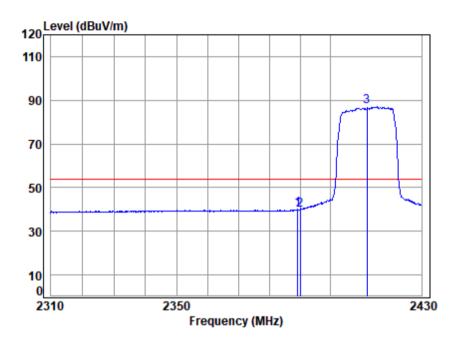


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 36 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT Mode : 2412 Band edge

: 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	2389.242	15.81	29.10	32.78	27.87	40.00	54.00	-14.00	Average
2	2390.000	15.81	29.10	32.78	27.75	39.88	54.00	-14.12	Average
3 q	2412.000	15.82	29.05	32.77	74.99	87.09	54.00	33.09	Average



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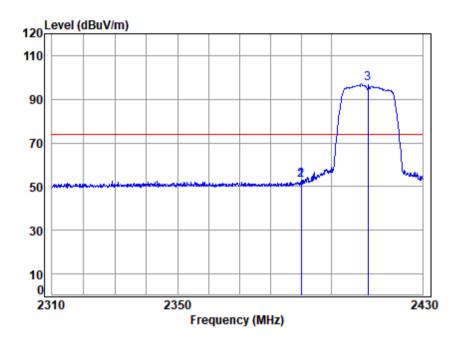


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 37 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT Mode : 2412 Band edge

: 2.4G WIFI 11N20

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2389.968 2390.000								
2412.000								



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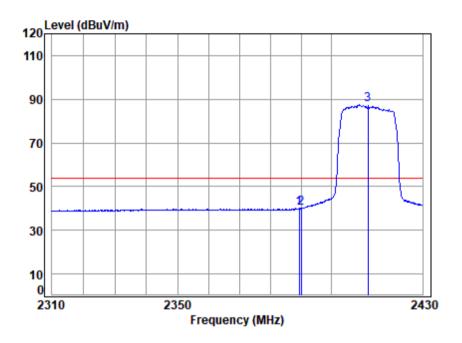


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 38 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT Mode : 2412 Band edge

: 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	2389.363	15 81	29 10	32 78	28 03	40 16	54 00	-13 8/	Average
_	2303.303	15.01	27.10	32.70	20.05	40.10	34.00	13.04	Average
2	2390.000	15.81	29.10	32.78	27.91	40.04	54.00	-13.96	Average
3 q	2412.000	15.82	29.05	32.77	75.30	87.40	54.00	33.40	Average



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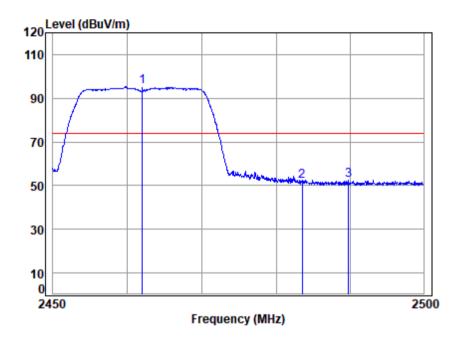


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 39 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT Mode : 2462 Band edge

· 2 4G WTET 11N20

	. 2.	+G MIL	T TTIVE	0					
		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	
. р	2462.000	15.85	28.90	32.74	83.18	95.19	74.00	21.19	peak
	2483.500								•
	2489.768								•



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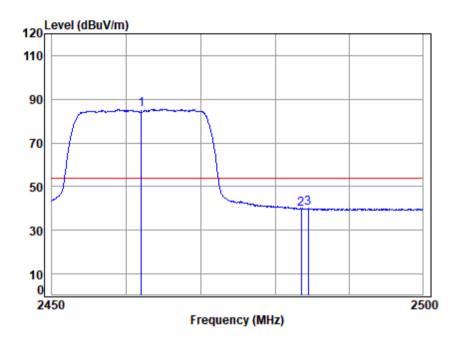


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 40 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT Mode : 2462 Band edge

: 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
_	2462.000								_
2	2483.500	15.86	28.90	32.73	27.84	39.87	54.00	-14.13	Average
3	2484.442	15.86	28.90	32.73	28.04	40.07	54.00	-13.93	Average



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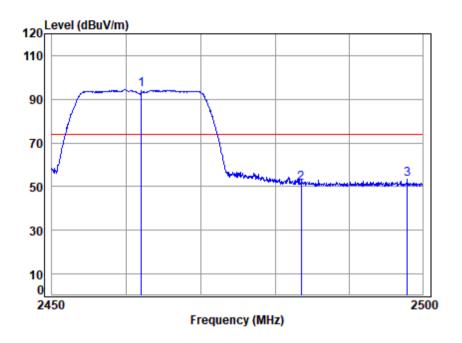


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 41 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT Mode : 2462 Band edge

: 2.4G WIFI 11N20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Limit Remark Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m

1 p 2462.000 32.74 82.54 74.00 20.55 Peak 15.85 28.90 94.55 2 2483.500 15.86 28.90 32.73 39.34 51.37 74.00 -22.63 Peak 2497.930 15.87 28.90 32.73 41.23 53.27 74.00 -20.73 Peak



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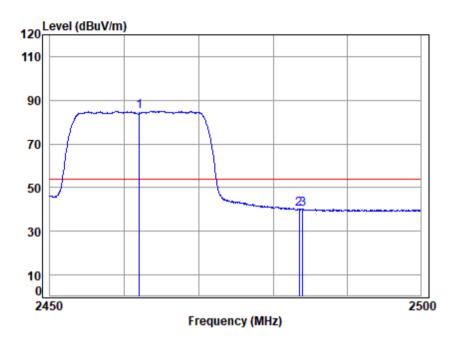


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 42 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT Mode : 2462 Band edge

· 2 4G WTET 11N20

. 2.	40 MIL	1 1111/2	0					
	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	15.85	28.90	32.74	73.03	85.04	54.00	31.04	Average
2 2483.500	15.86	28.90	32.73	28.03	40.06	54.00	-13.94	Average
3 2483.990	15 86	28 90	32 73	28 02	40 05	54 00	-13 95	Average



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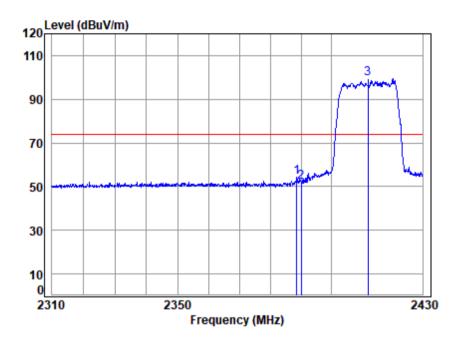


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 43 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL
Job No : 04581AT\04582AT
Mode : 2412 Band edge

: 2.4G WIFI 11AX20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.637	15.81	29.10	32.78	42.19	54.32	74.00	-19.68	peak
2	2390.000	15.81	29.10	32.78	39.69	51.82	74.00	-22.18	peak
3 (	2412.000	15.82	29.05	32.77	87.16	99.26	74.00	25.26	peak



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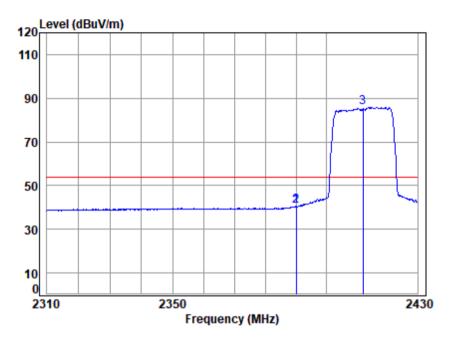


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 44 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT Mode : 2412 Band edge

: 2.4G WIFI 11AX20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	15.81	29.10	32.78	28.66	40.79	54.00	-13.21	Average
2	2390.000	15.81	29.10	32.78	28.66	40.79	54.00	-13.21	Average
3 q	2412.000	15.82	29.05	32.77	73.78	85.88	54.00	31.88	Average



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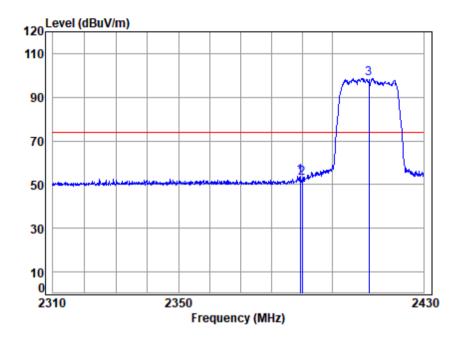


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 45 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT Mode : 2412 Band edge

		: 2.4	to MTL	T TIAN	20						
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										_
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	- 1	2389.363	15.81	29.10	32.78	41.91	54.04	74.00	-19.96	Peak	
2		2390.000	15.81	29.10	32.78	40.84	52.97	74.00	-21.03	Peak	
3	p :	2412.000	15.82	29.05	32.77	86.64	98.74	74.00	24.74	Peak	



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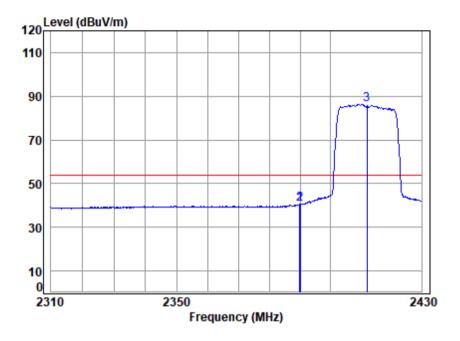


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 46 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT Mode : 2412 Band edge

: 2.4G WIFI 11AX20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.847	15.81	29.10	32.78	28.34	40.47	54.00	-13.53	Average
2	2390.000	15.81	29.10	32.78	28.27	40.40	54.00	-13.60	Average
3 q	2412.000	15.82	29.05	32.77	74.31	86.41	54.00	32.41	Average



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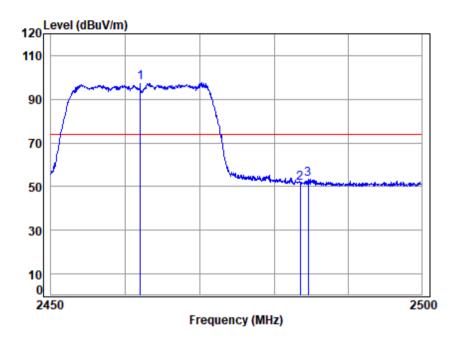


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Report No.: SZCR241200458103

Page: 47 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT Mode : 2462 Band edge

: 2.4G WIFI 11AX20

	. 2	TO MIL	T 114/	20					
		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	
р	2462.000	15.85	28.90	32.74	85.53	97.54	74.00	23.54	peak
	2483.500	15.86	28.90	32.73	39.62	51.65	74.00	-22.35	peak
	2/18/1 593								•



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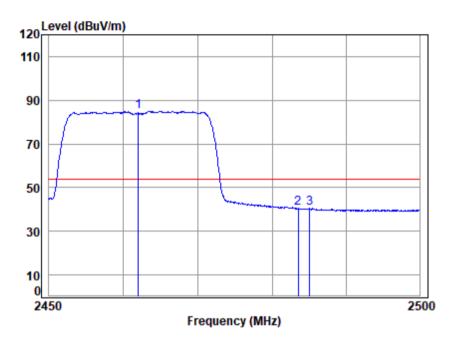


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 48 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT Mode : 2462 Band edge

: 2.4G WIFI 11AX20

		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	15.85	28.90	32.74	72.85	84.86	54.00	30.86	Average
2	2483.500	15.86	28.90	32.73	28.36	40.39	54.00	-13.61	Average
3	2485.044	15.86	28.90	32.73	28.46	40.49	54.00	-13.51	Average



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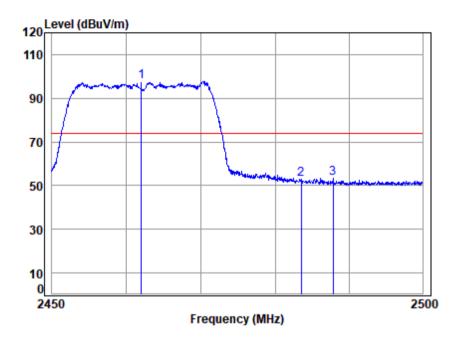


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 49 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT Mode : 2462 Band edge

: 2.4G WIFI 11AX20

Freq			Preamp Factor					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 2462.000								
2 2483.500 3 2487.807								



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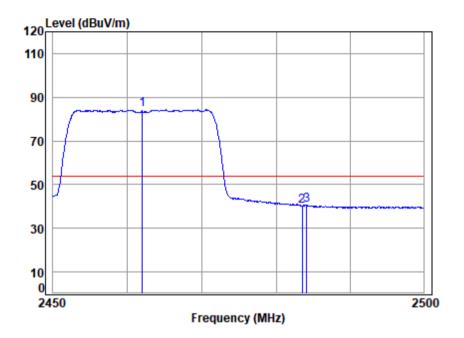


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Report No.: SZCR241200458103

Page: 50 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT Mode : 2462 Band edge

: 2.4G WIFI 11AX20

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	q 2462.000	15.85	28.90	32.74	72.25	84.26	54.00	30.26	Average	
)	2483.500	15.86	28.90	32.73	28.32	40.35	54.00	-13.65	Average	
3	2484.141	15.86	28.90	32.73	28.74	40.77	54.00	-13.23	Average	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 51 of 135

#### 7.3 Radiated Spurious Emissions Below 1GHz

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

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

#### Limit:

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

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.7 °C Humidity: 36.9 % RH Atmospheric Pressure: 1020 mbar

#### 7.3.2 Test Mode Description

7.0.2 TCSt W		
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); data rate @ 8.6Mbps is the worst case of IEEE 802.11ax(HE20). Only the data of worst case is recorded in the report.
Final test	05	Charge + 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); data rate @ 8.6Mbps is the worst case of IEEE 802.11ax(HE20). Only the data of worst case is recorded in the report.



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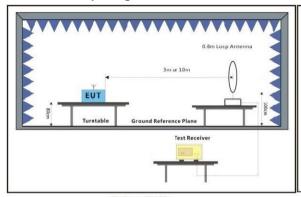
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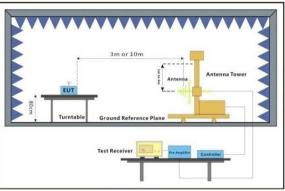


SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200458103

> Page: 52 of 135

#### 7.3.3 Test Setup Diagram





30MHz-1GHz Below 30MHz

#### 7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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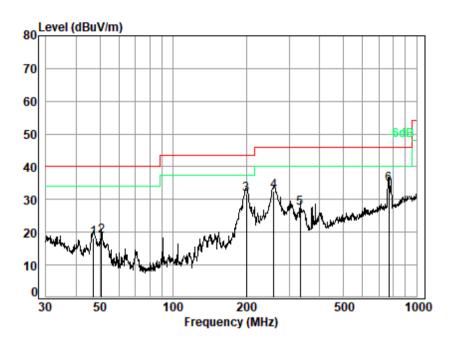


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 53 of 135

Test Mode: 05; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL Job No. : 04581AT/04582AT

Test Mode: 05

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	46.995	13.64	0.84	27.74	31.50	18.24	40.00	-21.76	QP
2	50.764	12.64	0.87	27.73	33.10	18.88	40.00	-21.12	QP
3	199.986	14.10	1.76	27.17	42.91	31.60	43.50	-11.90	QP
4	259.234	17.23	2.04	26.92	40.15	32.50	46.00	-13.50	QP
5	332.519	18.77	2.34	26.88	33.28	27.51	46.00	-18.49	QP
6 a	768.748	26.68	3.76	27.56	31.86	34.74	46.00	-11.26	OP



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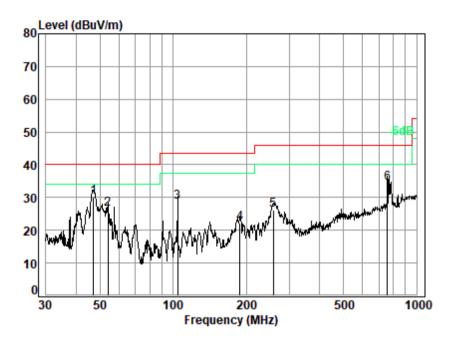


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 54 of 135

Test Mode: 05; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 04581AT/04582AT

Test Mode: 05

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	——dB	
1 q	46.995	13.64	0.84	27.74	43.44	30.18	40.00	-9.82	QP
2	53.882	12.15	0.90	27.72	40.99	26.32	40.00	-13.68	QP
3	104.536	12.21	1.25	27.57	42.57	28.46	43.50	-15.04	QP
4	187.753	14.30	1.71	27.22	33.46	22.25	43.50	-21.25	QP
5	258.326	17.25	2.04	26.93	33.95	26.31	46.00	-19.69	QP
6	758.041	26.48	3.73	27.58	31.79	34.42	46.00	-11.58	OP



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 55 of 135

#### 7.4 Radiated Spurious Emissions Above 1GHz

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

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

#### 7.4.1 E.U.T. Operation

Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 23.5 °C Humidity: 56.3 % RH

#### 7.4.2 Test Mode Description

7.4.2 TEST IV	ouc Dc.	Soription
Pre-scan / Final test	Mode Code	Description
Pre-scan	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); data rate @ 8.6Mbps is the worst case of IEEE 802.11ax(HE20). Only the data of worst case is recorded in the report.
Final test	05	Charge + 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); data rate @ 8.6Mbps is the worst case of IEEE 802.11ax(HE20). Only the data of worst case is recorded in the report.



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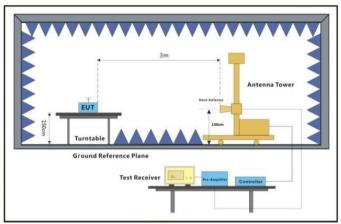


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Report No.: SZCR241200458103

Page: 56 of 135

#### 7.4.3 Test Setup Diagram



Above 1GHz



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> Page: 57 of 135

#### 7.4.4 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.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle≥98%) for Average detection (AV) at frequency above 1GHz.



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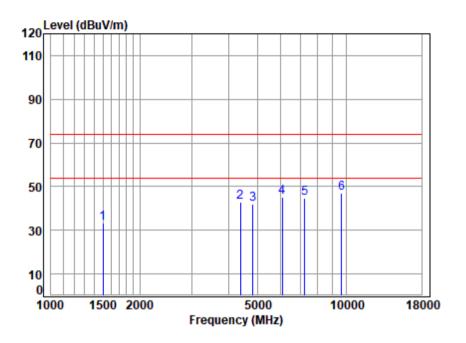


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 58 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT 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		1498.781	4.57	26.77	54.78	56.82	33.38	74.00	-40.62	peak
2		4379.699	8.02	34.64	54.26	54.64	43.04	74.00	-30.96	peak
3		4824.000	8.01	34.40	54.22	53.64	41.83	74.00	-32.17	peak
4		6071.417	9.46	35.04	53.11	53.62	45.01	74.00	-28.99	peak
5		7236.000	9.29	35.70	53.18	53.08	44.89	74.00	-29.11	peak
6	р	9648.000	11.38	37.50	53.34	51.47	47.01	74.00	-26.99	peak



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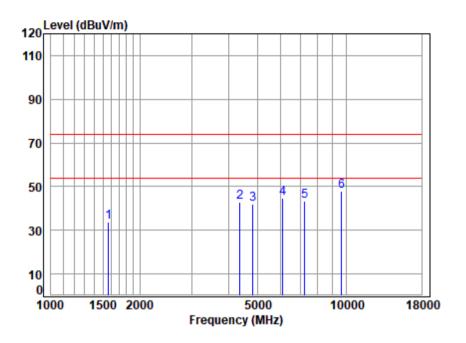


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 59 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT

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	1569.721	4.72	26.92	54.80	56.73	33.57	74.00	-40.43	peak
2	4367.058	8.04	34.54	54.26	54.73	43.05	74.00	-30.95	peak
3	4824.000	8.01	34.40	54.22	53.62	41.81	74.00	-32.19	peak
4	6088.991	9.45	35.08	53.11	53.24	44.66	74.00	-29.34	peak
5									•
6 p	9648.000	11.38	37.50	53.34	52.21	47.75	74.00	-26.25	peak



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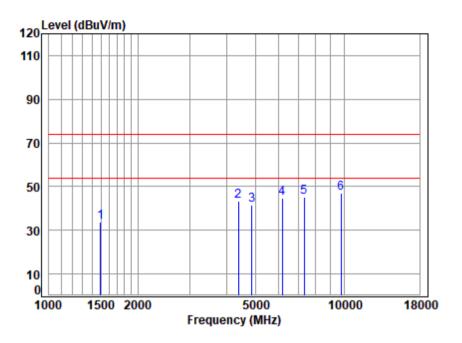


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 60 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT

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		1494.455	4.57	26.64	54.77	57.29	33.73	74.00	-40.27	peak
2		4379.699	8.02	34.64	54.26	54.77	43.17	74.00	-30.83	peak
3		4874.000	8.03	34.60	54.21	53.07	41.49	74.00	-32.51	peak
4		6177.627	9.38	34.79	53.12	53.54	44.59	74.00	-29.41	peak
5		7311.000								•
6	р	9748.000	11.32	37.40	53.30	51.78	47.20	74.00	-26.80	peak



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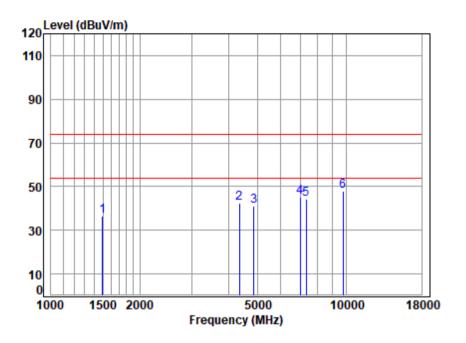


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 61 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT

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		1494.455	4.57	26.64	54.77	59.87	36.31	74.00	-37.69	peak
2		4354.454	8.06	34.44	54.26	54.42	42.66	74.00	-31.34	peak
3		4874.000	8.03	34.60	54.21	52.85	41.27	74.00	-32.73	peak
4		6995.172	9.53	35.71	53.20	53.02	45.06	74.00	-28.94	peak
5		7311.000	9.21	35.70	53.17	52.46	44.20	74.00	-29.80	peak
6	р	9748.000	11.32	37.40	53.30	52.64	48.06	74.00	-25.94	peak



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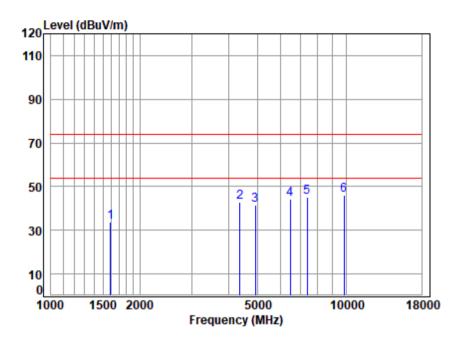


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 62 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT 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		1592.571	4.77	26.83	54.80	56.93	33.73	74.00	-40.27	peak
2		4367.058	8.04	34.54	54.26	54.66	42.98	74.00	-31.02	peak
3		4924.000	8.05	34.65	54.21	53.22	41.71	74.00	-32.29	peak
4		6470.026	9.16	35.54	53.15	52.71	44.26	74.00	-29.74	peak
5		7386.000	9.14	35.77	53.16	53.35	45.10	74.00	-28.90	peak
6	р	9848.000	11.27	37.20	53.26	50.82	46.03	74.00	-27.97	peak



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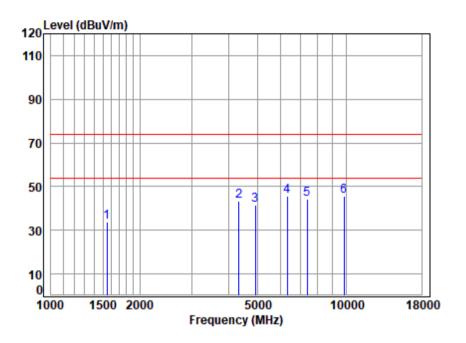


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 63 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT

Mode : 2462 TX RSE

: 2.4G WIFI 11B

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1547.199	4.67	26.99	54.79	57.11	33.98	74.00	-40.02	peak
2	4329.354	8.09	34.23	54.26	55.20	43.26	74.00	-30.74	peak
3	4924.000	8.05	34.65	54.21	53.17	41.66	74.00	-32.34	peak
4	6322.136	9.27	34.96	53.13	54.53	45.63	74.00	-28.37	peak
5	7386.000	9.14	35.77	53.16	52.45	44.20	74.00	-29.80	peak
6	p 9848.000	11.27	37.20	53.26	50.52	45.73	74.00	-28.27	peak



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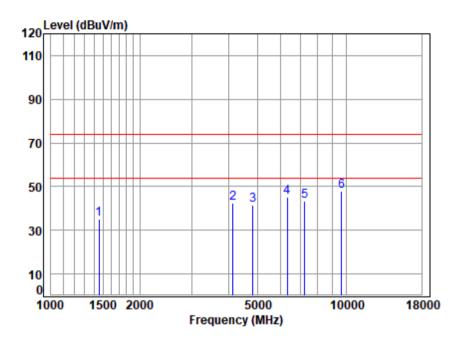


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 64 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT

Mode : 2412 TX RSE

: 2.4G WIFI 11G

		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	1456.081	4.57	25.57	54.76	59.60	34.98	74.00	-39.02	peak
2	4133.699	8.36	33.54	54.29	54.95	42.56	74.00	-31.44	peak
3	4824.000	8.01	34.40	54.22	53.55	41.74	74.00	-32.26	peak
4	6322.136	9.27	34.96	53.13	54.08	45.18	74.00	-28.82	peak
5	7236.000	9.29	35.70	53.18	51.46	43.27	74.00	-30.73	peak
6	p 9648.000	11.38	37.50	53.34	52.25	47.79	74.00	-26.21	peak



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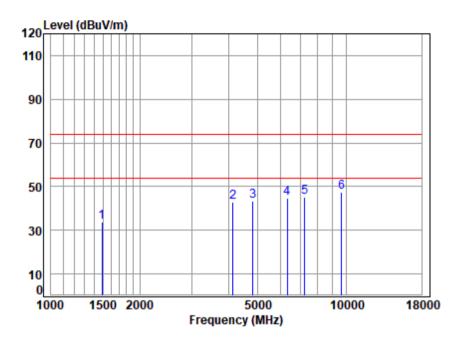


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 65 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT

Mode : 2412 TX RSE

: 2.4G WIFI 11G

			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		1490.142	4.57	26.52	54.77	57.47	33.79	74.00	-40.21	peak
2		4133.699	8.36	33.54	54.29	55.34	42.95	74.00	-31.05	peak
3		4824.000	8.01	34.40	54.22	55.05	43.24	74.00	-30.76	peak
4		6322.136	9.27	34.96	53.13	53.74	44.84	74.00	-29.16	peak
5		7236.000	9.29	35.70	53.18	53.36	45.17	74.00	-28.83	peak
6	р	9648.000	11.38	37.50	53.34	51.99	47.53	74.00	-26.47	peak



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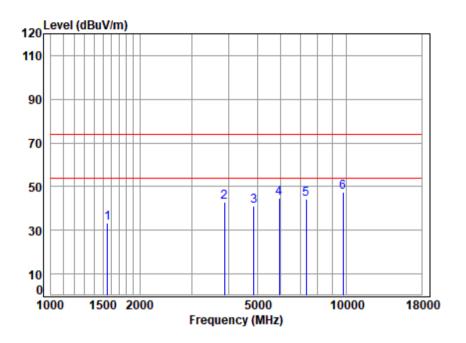


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 66 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT

Mode : 2437 TX RSE

: 2.4G WIFI 11G

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1551.677	4.68	26.99	54.79	56.32	33.20	74.00	-40.80	peak
2		3867.831	8.14	33.35	54.38	55.98	43.09	74.00	-30.91	peak
3		4874.000	8.03	34.60	54.21	52.49	40.91	74.00	-33.09	peak
4		5932.638	9.49	34.67	53.17	53.91	44.90	74.00	-29.10	peak
5		7311.000	9.21	35.70	53.17	52.40	44.14	74.00	-29.86	peak
6	р	9748.000	11.32	37.40	53.30	51.90	47.32	74.00	-26.68	peak



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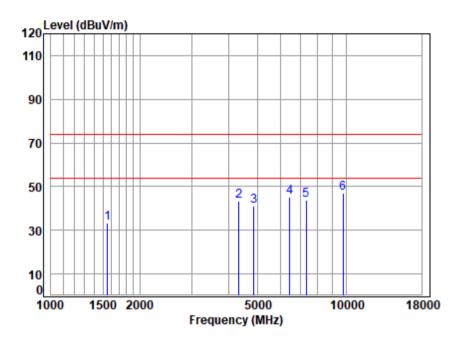


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 67 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11q; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT

Mode : 2437 TX RSE

: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1551.677	4.68	26.99	54.79	56.55	33.43	74.00	-40.57	peak
2	4329.354	8.09	34.23	54.26	55.31	43.37	74.00	-30.63	peak
3	4874.000	8.03	34.60	54.21	52.69	41.11	74.00	-32.89	peak
4	6432.732	9.19	35.40	53.15	53.64	45.08	74.00	-28.92	peak
5	7311.000	9.21	35.70	53.17	52.26	44.00	74.00	-30.00	peak
6	p 9748.000	11.32	37.40	53.30	51.79	47.21	74.00	-26.79	peak



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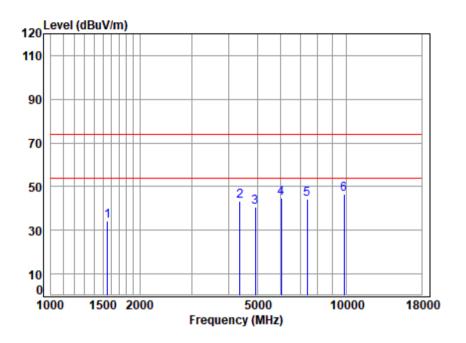


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 68 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT

Mode : 2462 TX RSE

: 2.4G WIFI 11G

		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	1556.169	4.69	26.98	54.79	57.26	34.14	74.00	-39.86	peak
2	4367.058	8.04	34.54	54.26	55.19	43.51	74.00	-30.49	peak
3	4924.000	8.05	34.65	54.21	52.01	40.50	74.00	-33.50	peak
4	6036.421	9.49	34.97	53.10	53.50	44.86	74.00	-29.14	peak
5	7386.000	9.14	35.77	53.16	52.57	44.32	74.00	-29.68	peak
6	p 9848.000	11.27	37.20	53.26	51.52	46.73	74.00	-27.27	peak



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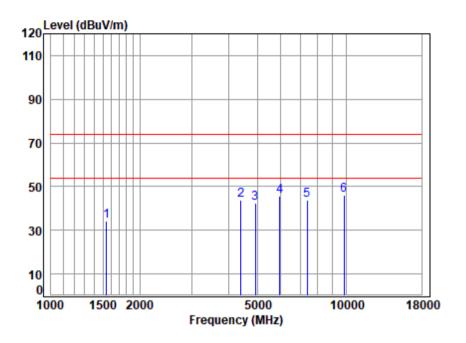


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 69 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT

Mode : 2462 TX RSE

: 2.4G WIFI 11G

	Fred	Cable Loss		Preamp Factor			Limit Line		Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1542.733	4.66	26.97	54.79	57.42	34.26	74.00	-39.74	peak	
2	4405.090	7.99	34.74	54.26	55.37	43.84	74.00	-30.16	peak	
3	4924.000	8.05	34.65	54.21	54.11	42.60	74.00	-31.40	peak	
4	5967.033	9.51	34.77	53.13	54.49	45.64	74.00	-28.36	peak	
5	7386.000	9.14	35.77	53.16	52.11	43.86	74.00	-30.14	peak	
6	p 9848.000	11.27	37.20	53.26	50.67	45.88	74.00	-28.12	peak	



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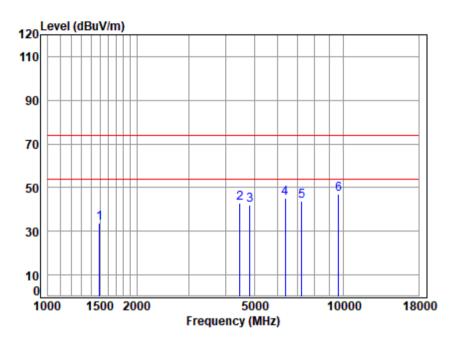


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 70 of 135

Test Mode: 05: Polarity: Horizontal: Modulation:802.11n: Bandwidth:20MHz: Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT Mode : 2412 TX RSE

: 2.4G WIFI 11N20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Limit Remark Freq Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m 1494.455 4.57 26.64 54.77 57.52 33.96 74.00 -40.04 peak 1 4469.214 7.90 33.97 54.25 55.16 42.78 74.00 -31.22 peak 2 8.01 34.40 54.22 53.58 41.77 74.00 -32.23 peak 3 4824.000 4 6358.789 9.24 34.95 53.14 54.04 45.09 74.00 -28.91 peak 9.29 35.70 53.18 52.19 44.00 74.00 -30.00 peak 7236.000 11.38 37.50 53.34 51.34 46.88 74.00 -27.12 peak 6 p 9648.000



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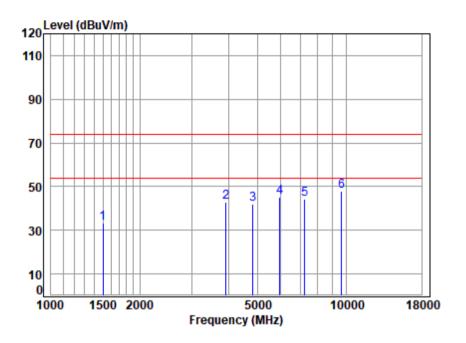


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 71 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT

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		1498.781	4.57	26.77	54.78	56.54	33.10	74.00	-40.90	peak
2		3924.135	8.32	33.66	54.35	55.27	42.90	74.00	-31.10	peak
3		4824.000	8.01	34.40	54.22	53.95	42.14	74.00	-31.86	peak
4		5949.811	9.50	34.70	53.15	54.31	45.36	74.00	-28.64	peak
5		7236.000	9.29	35.70	53.18	52.31	44.12	74.00	-29.88	peak
6	р	9648.000	11.38	37.50	53.34	52.39	47.93	74.00	-26.07	peak



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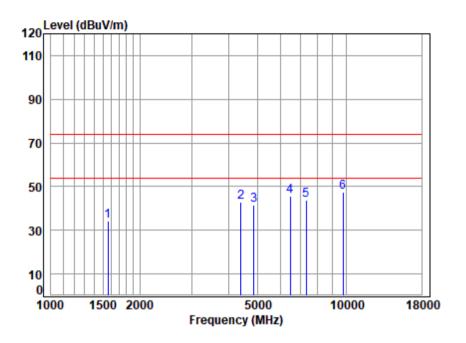


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 72 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT

Mode : 2437 TX RSE

: 2.4G WIFI 11N20

	_			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1560.673	4.70	26.96	54.79	57.34	34.21	74.00	-39.79	peak
2	4405.090	7.99	34.74	54.26	54.23	42.70	74.00	-31.30	peak
3	4874.000	8.03	34.60	54.21	52.95	41.37	74.00	-32.63	peak
4	6470.026	9.16	35.54	53.15	54.08	45.63	74.00	-28.37	peak
5	7311.000	9.21	35.70	53.17	52.01	43.75	74.00	-30.25	peak
6	p 9748.000	11.32	37.40	53.30	51.88	47.30	74.00	-26.70	peak



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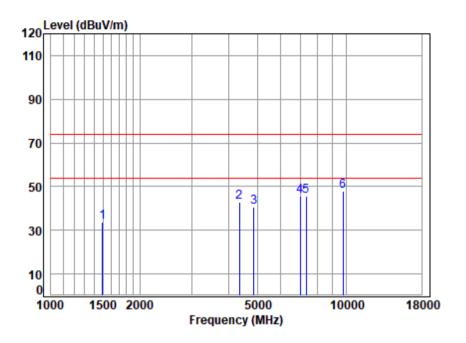


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 73 of 135

Test Mode: 05: Polarity: Vertical: Modulation:802.11n: Bandwidth:20MHz: Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT

Mode : 2437 TX RSE

: 2.4G WIFI 11N20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Limit Remark Freq Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m 1494.455 4.57 26.64 54.77 57.55 33.99 74.00 -40.01 peak 4354.454 8.06 34.44 54.26 54.71 42.95 74.00 -31.05 peak 34.60 54.21 52.14 40.56 74.00 -33.44 peak 4874.000 8.03 6995.172 9.53 35.71 53.20 53.63 45.67 74.00 -28.33 peak 9.21 35.70 53.17 53.98 45.72 74.00 -28.28 peak 7311.000 6 p 9748.000 11.32 37.40 53.30 52.34 47.76 74.00 -26.24 peak



1

2

3

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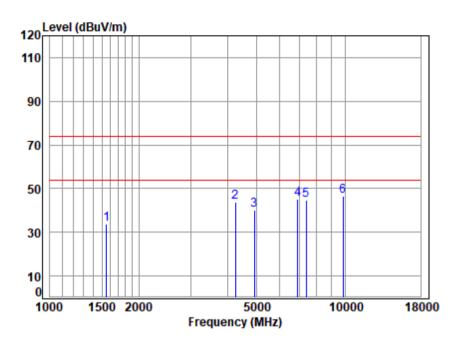


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 74 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT 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		1556.169	4.69	26.98	54.79	56.89	33.77	74.00	-40.23	peak
2		4242.641	8.21	33.80	54.27	55.85	43.59	74.00	-30.41	peak
3		4924.000								•
4		6914.763								•
5										•
6	р	9848.000								•



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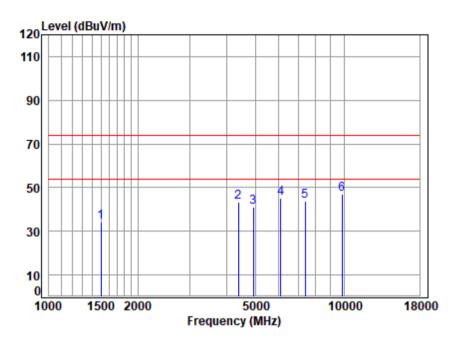


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 75 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT

Mode : 2462 TX RSE

: 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1498.781	4.57	26.77	54.78	57.82	34.38	74.00	-39.62	peak
2	4392.376	8.00	34.74	54.26	54.65	43.13	74.00	-30.87	peak
3	4924.000	8.05	34.65	54.21	52.58	41.07	74.00	-32.93	peak
4	6106.616	9.44	35.07	53.11	53.70	45.10	74.00	-28.90	peak
5	7386.000	9.14	35.77	53.16	51.86	43.61	74.00	-30.39	peak
6 1	9848.000	11.27	37.20	53.26	51.95	47.16	74.00	-26.84	peak



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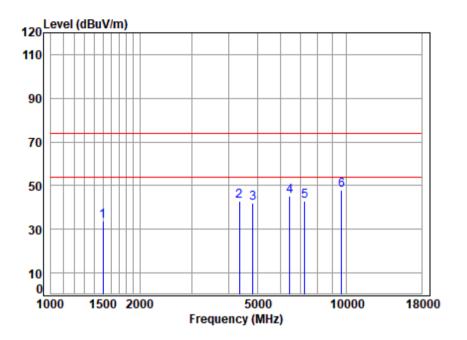


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 76 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT

Mode : 2412 TX RSE

: 2.4G WIFI 11AX20

	Freq			Preamp Factor			Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1503.119	4.58	26.81	54.78	56.96	33.57	74.00	-40.43	peak
2	4354.454	8.06	34.44	54.26	54.70	42.94	74.00	-31.06	peak
3	4824.000	8.01	34.40	54.22	53.61	41.80	74.00	-32.20	peak
4	6432.732	9.19	35.40	53.15	53.87	45.31	74.00	-28.69	peak
5	7236.000	9.29	35.70	53.18	51.13	42.94	74.00	-31.06	peak
6	p 9648.000	11.38	37.50	53.34	52.32	47.86	74.00	-26.14	peak



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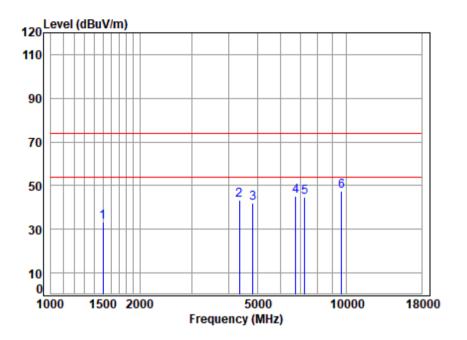


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 77 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT

Mode : 2412 TX RSE

: 2.4G WIFI 11AX20

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1	1498.781	4.57	26.77	54.78	56.66	33.22	74.00	-40.78	peak
2	4	1354.454	8.06	34.44	54.26	55.06	43.30	74.00	-30.70	peak
3	4	1824.000	8.01	34.40	54.22	53.78	41.97	74.00	-32.03	peak
4	6	5737.207	9.33	35.20	53.18	53.69	45.04	74.00	-28.96	peak
5	7	7236.000	9.29	35.70	53.18	52.69	44.50	74.00	-29.50	peak
6	p 9	9648.000	11.38	37.50	53.34	51.85	47.39	74.00	-26.61	peak



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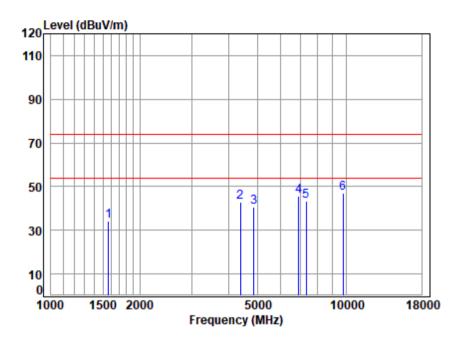


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 78 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT

Mode : 2437 TX RSE

: 2.4G WIFI 11AX20

			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		1569.721	4.72	26.92	54.80	57.50	34.34	74.00	-39.66	peak
2		4379.699	8.02	34.64	54.26	54.64	43.04	74.00	-30.96	peak
3		4874.000	8.03	34.60	54.21	52.38	40.80	74.00	-33.20	peak
4		6914.763	9.47	35.66	53.19	53.54	45.48	74.00	-28.52	peak
5		7311.000								•
6	р	9748.000	11.32	37.40	53.30	51.37	46.79	74.00	-27.21	peak



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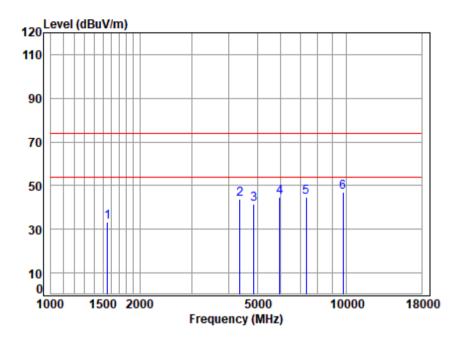


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 79 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT

Mode : 2437 TX RSE

: 2.4G WIFI 11AX20

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1551.677	4.68	26.99	54.79	56.43	33.31	74.00	-40.69	peak
2		4367.058	8.04	34.54	54.26	55.30	43.62	74.00	-30.38	peak
3		4874.000	8.03	34.60	54.21	53.22	41.64	74.00	-32.36	peak
4		5949.811	9.50	34.70	53.15	53.63	44.68	74.00	-29.32	peak
5		7311.000	9.21	35.70	53.17	53.16	44.90	74.00	-29.10	peak
6	р	9748.000	11.32	37.40	53.30	51.53	46.95	74.00	-27.05	peak



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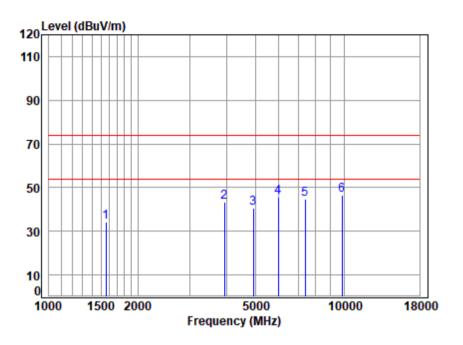


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 80 of 135

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 04581AT\04582AT

Mode : 2462 TX RSE

: 2.4G WIFI 11AX20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1560.673	4.70	26.96	54.79	57.15	34.02	74.00	-39.98	peak
2	3935.493	8.36	33.59	54.34	55.61	43.22	74.00	-30.78	peak
3	4924.000	8.05	34.65	54.21	52.10	40.59	74.00	-33.41	peak
4	5984.305	9.51	34.84	53.12	54.32	45.55	74.00	-28.45	peak
5	7386.000	9.14	35.77	53.16	52.84	44.59	74.00	-29.41	peak
6	p 9848.000	11.27	37.20	53.26	51.45	46.66	74.00	-27.34	peak



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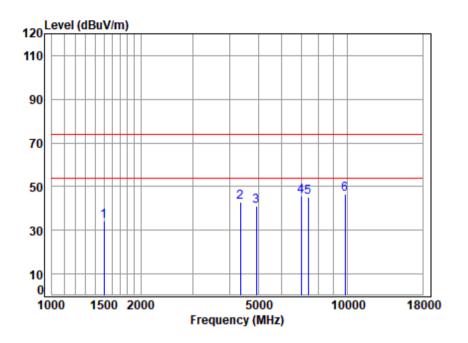


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 81 of 135

Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 04581AT\04582AT

Mode : 2462 TX RSE

: 2.4G WIFI 11AX20

			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		1498.781	4.57	26.77	54.78	57.63	34.19	74.00	-39.81	peak
2		4354.454	8.06	34.44	54.26	54.65	42.89	74.00	-31.11	peak
3		4924.000	8.05	34.65	54.21	52.77	41.26	74.00	-32.74	peak
4		6995.172	9.53	35.71	53.20	53.65	45.69	74.00	-28.31	peak
5		7386.000	9.14	35.77	53.16	53.46	45.21	74.00	-28.79	peak
6	р	9848.000	11.27	37.20	53.26	51.44	46.65	74.00	-27.35	peak



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 82 of 135

### 7.5 Conducted Peak Output Power

47 CFR Part 15, Subpart C 15.247(b)(3) Test Requirement Test Method: ANSI C63.10 (2013) Section 11.9.2

#### 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

### 7.5.1 E.U.T. Operation

Operating Environment:

20.7 °C Temperature: Humidity: 36.9 % RH Atmospheric Pressure: 1020 mbar

### 7.5.2 Test Mode Description

7.0.2 1 CSt 10		our ip work
Pre-scan / Final test	Mode Code	Description
Final test	04	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); data rate @ 8.6Mbps is the worst case of IEEE 802.11ax(HE20). Only the data of worst case is recorded in the report.



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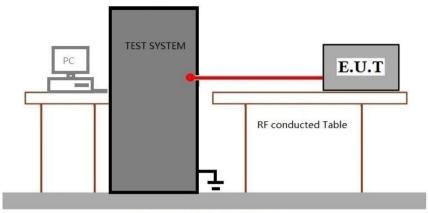


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 83 of 135

### 7.5.3 Test Setup Diagram



Ground Reference Plane

#### 7.5.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 84 of 135

#### 7.6 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

### 7.6.1 E.U.T. Operation

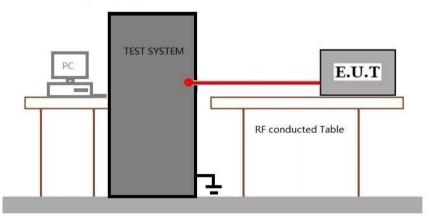
Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 20.7 °C Humidity: 36.9 % RH

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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); data rate @ 8.6Mbps is the worst case of IEEE 802.11ax(HE20). Only the data of worst case is recorded in the report.

#### 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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Report No.: SZCR241200458103

Page: 85 of 135

### 7.7 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

### 7.7.1 E.U.T. Operation

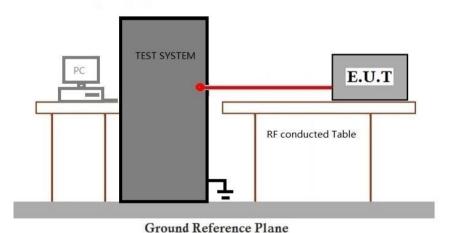
Operating Environment:

Temperature: 20.7 °C Humidity: 36.9 % RH Atmospheric Pressure: 1020 mbar

#### 7.7.2 Test Mode Description

		•
Pre-scan / Final test	Mode Code	Description
Final test	04	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); data rate @ 8.6Mbps is the worst case of IEEE 802.11ax(HE20). Only the data of worst case is recorded in the report.

#### 7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200458103

> Page: 86 of 135

## 7.8 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).

### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 20.7 °C Humidity: 36.9 % RH Atmospheric Pressure: 1020 mbar

### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description								
Final test	04	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); data rate @ 8.6Mbps is the worst case of IEEE 802.11ax(HE20). Only the data of worst case is recorded in the report.								



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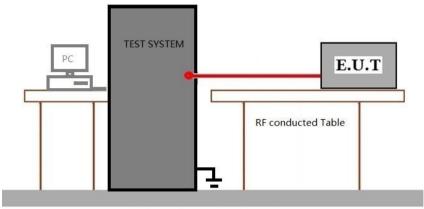


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 87 of 135

### 7.8.3 Test Setup Diagram



Ground Reference Plane

#### 7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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> Page: 88 of 135

## 7.9 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).

### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 20.7 °C Humidity: 36.9 % RH Atmospheric Pressure: 1020 mbar

### 7.9.2 Test Mode Description

7.0.2 . 000	13.2 Test mode bescription									
Pre-scan / Final test	Mode Code	Description								
Final test	04	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); data rate @ 8.6Mbps is the worst case of IEEE 802.11ax(HE20). Only the data of worst case is recorded in the report.								



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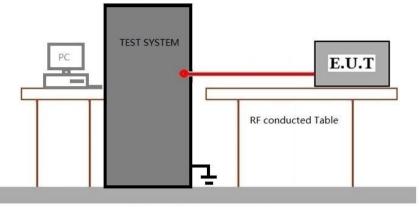
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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200458103

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#### 7.9.3 Test Setup Diagram



Ground Reference Plane

#### 7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200458103

> Page: 90 of 135

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

Refer to Appendix - Test Setup Photos for SZCR2412004581AT

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

Refer to External and Internal Photos for SZCR2412004581AT



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> Page: 91 of 135

# 10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

	Ant1										
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)		
		2412	/	/	1.001	1.010	99.11	0.04	0.00		
802.11b	SISO	2437	/	/	1.000	1.010	99.01	0.04	0.03		
		2462	/	/	1.000	1.010	99.01	0.04	0.03		
		2412	/	/	0.505	0.513	98.44	0.07	0.03		
802.11g	SISO	2437	/	/	0.504	0.513	98.25	0.08	0.03		
		2462	/	/	0.504	0.513	98.25	0.08	0.03		
000.44		2412	/	/	0.512	0.521	98.27	0.08	0.10		
802.11n (HT20)	SISO	2437	/	/	0.504	0.513	98.25	0.08	0.06		
(11120)		2462	/	/	0.513	0.522	98.28	0.08	0.06		
000 44		2412	SU	/	3.864	3.873	99.77	0.01	0.04		
802.11ax (HEW20)	SISO	2437	SU	/	3.866	3.875	99.77	0.01	0.03		
(1127720)		2462	SU	/	3.864	3.873	99.77	0.01	0.03		



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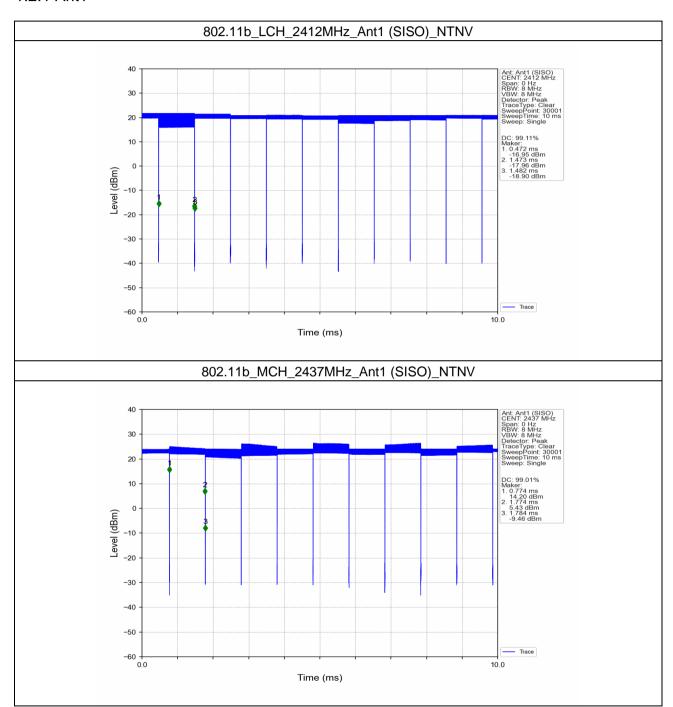
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Report No.: SZCR241200458103

Page: 92 of 135

## 1.2 Test Graph

#### 1.2.1 Ant1





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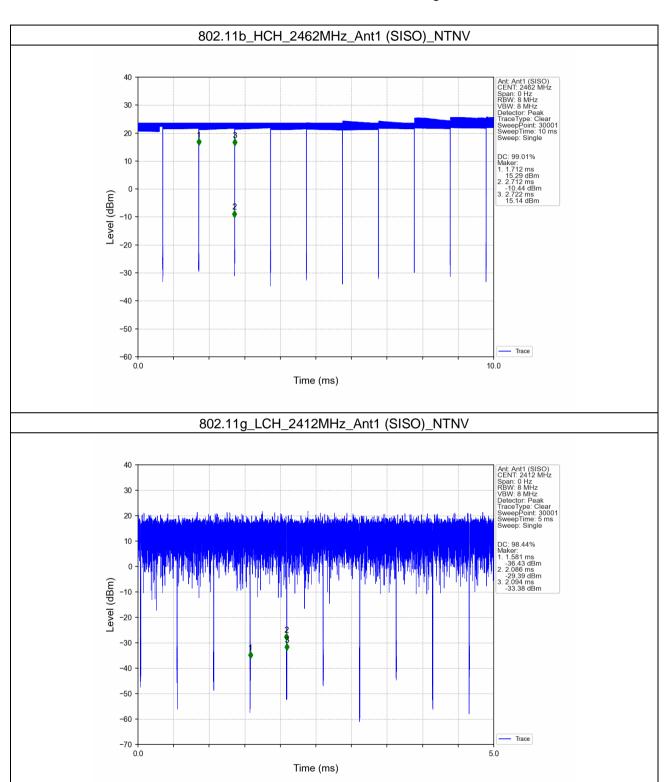
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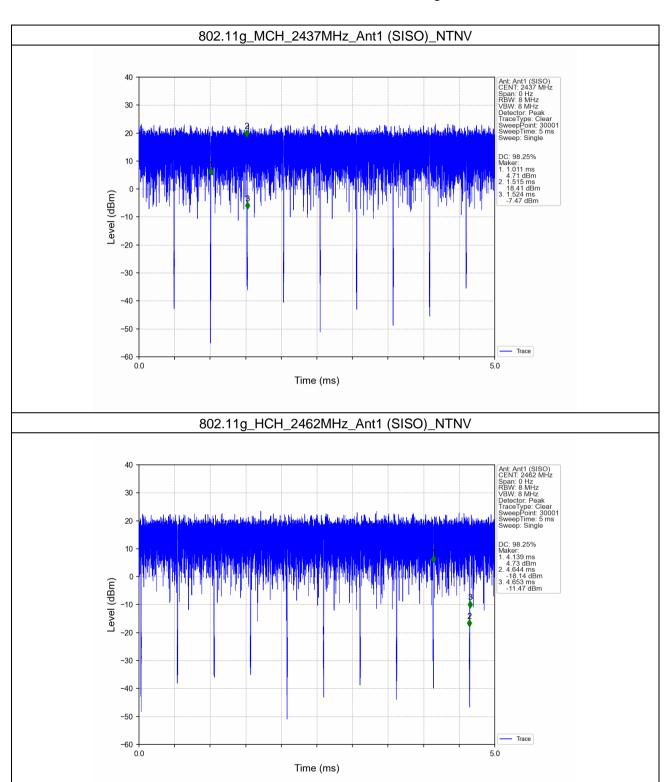
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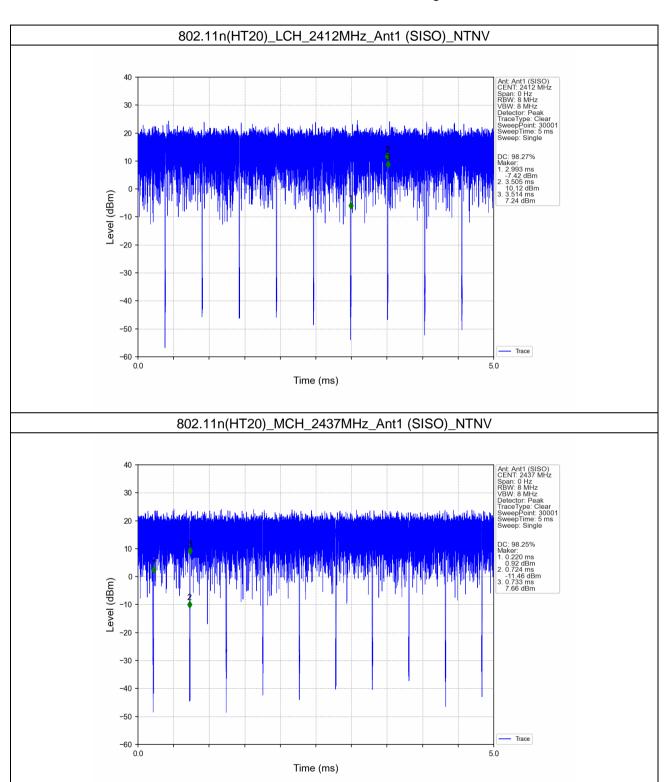
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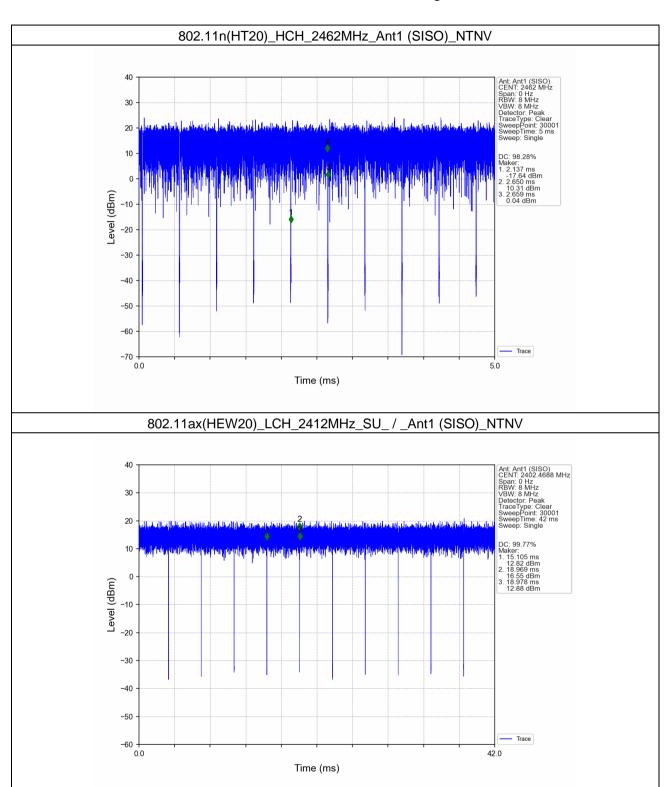
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 96 of 135





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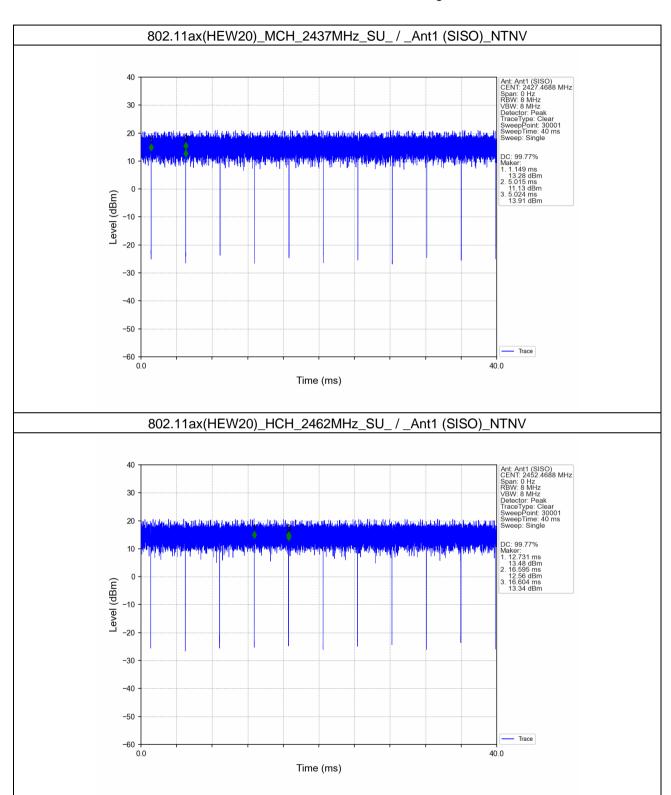
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 97 of 135





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 98 of 135

### 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

Mode	TX	Frequency	RU	RU Pos AN	ΛNIT	99% Occupied Bandwidth (MHz)		Verdict
	Type	(MHz)	ΚU		AINT	Result	Limit	verdict
		2412	/	/	1	13.321	/	Pass
802.11b	SISO	2437	/	/	1	13.303	/	Pass
		2462	/	/	1	13.277	/	Pass
		2412	/	/	1	17.000	/	Pass
802.11g	SISO	2437	/	/	1	17.100	/	Pass
		2462	/	/	1	17.076	/	Pass
000.44	SISO	2412	/	/	1	17.851	/	Pass
802.11n (HT20)		2437	/	/	1	17.196	/	Pass
(П120)		2462	/	/	1	17.847	/	Pass
802.11ax (HEW20)		2412	SU	/	1	19.008	/	Pass
	SISO	2437	SU	/	1	19.043	/	Pass
		2462	SU	/	1	19.039	/	Pass

### 2.1.2 6dB BW

Mode	TX	Frequency	RU	RU Pos ANT	ANT	6dB Bandv	Verdict	
iviode	Type	(MHz)	KU		Result	Limit		
		2412	/	/	1	9.173	>=0.5	Pass
802.11b	SISO	2437	/	/	1	9.166	>=0.5	Pass
		2462	/	/	1	9.171	>=0.5	Pass
	SISO	2412	/	/	1	16.328	>=0.5	Pass
802.11g		2437	/	/	1	16.328	>=0.5	Pass
		2462	/	/	1	16.328	>=0.5	Pass
000.44	SISO	2412	/	/	1	16.797	>=0.5	Pass
802.11n (HT20)		2437	/	/	1	16.328	>=0.5	Pass
(11120)		2462	/	/	1	16.820	>=0.5	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	18.812	>=0.5	Pass
		2437	SU	/	1	18.856	>=0.5	Pass
		2462	SU	/	1	18.857	>=0.5	Pass



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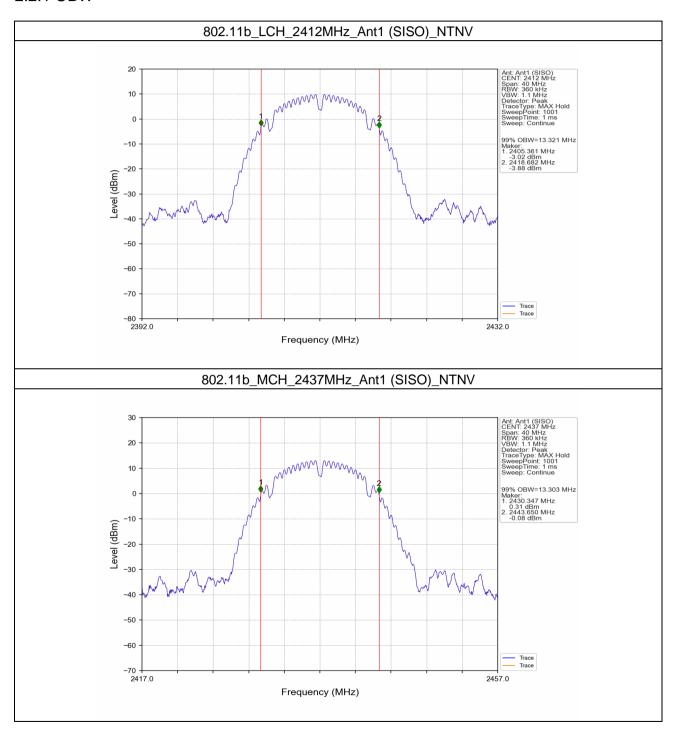
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Report No.: SZCR241200458103

Page: 99 of 135

## 2.2 Test Graph

### 2.2.1 OBW





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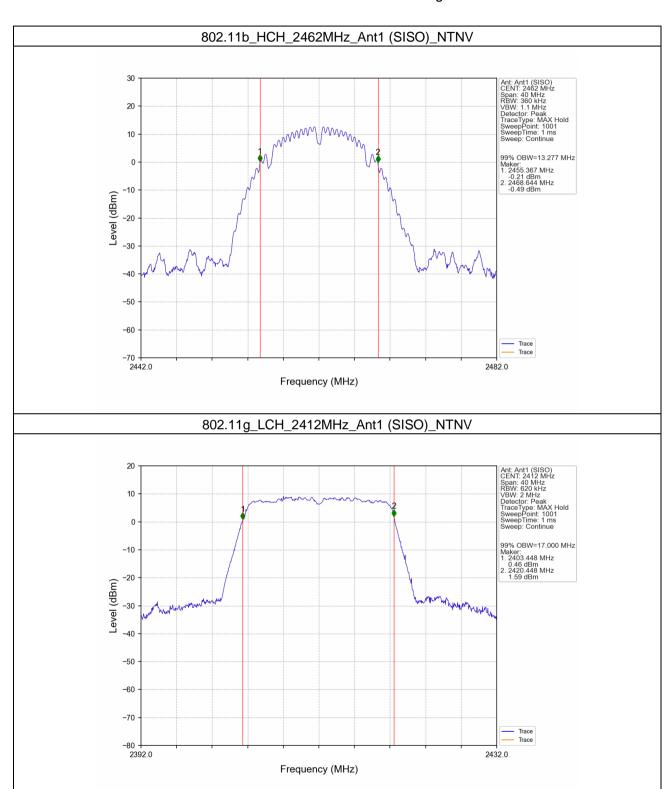
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 100 of 135





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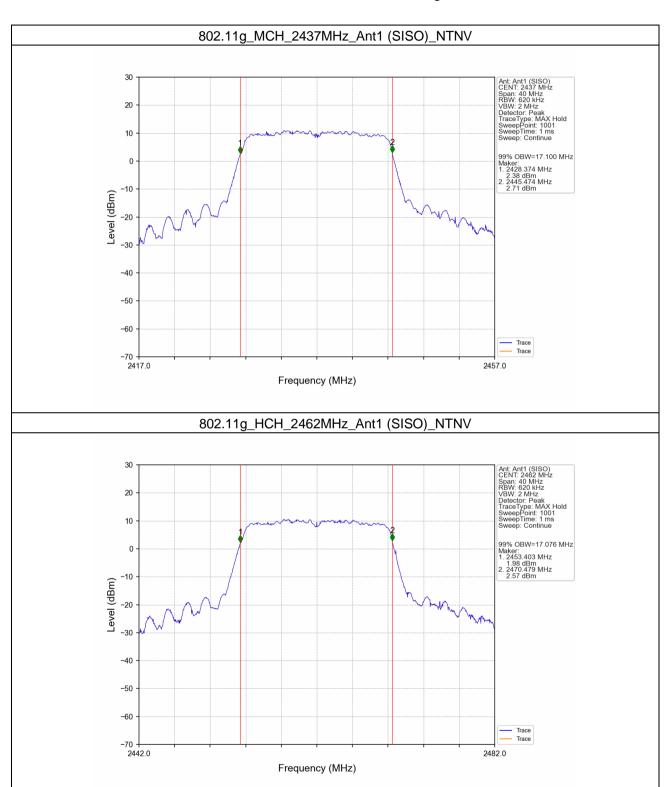
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Report No.: SZCR241200458103

Page: 101 of 135





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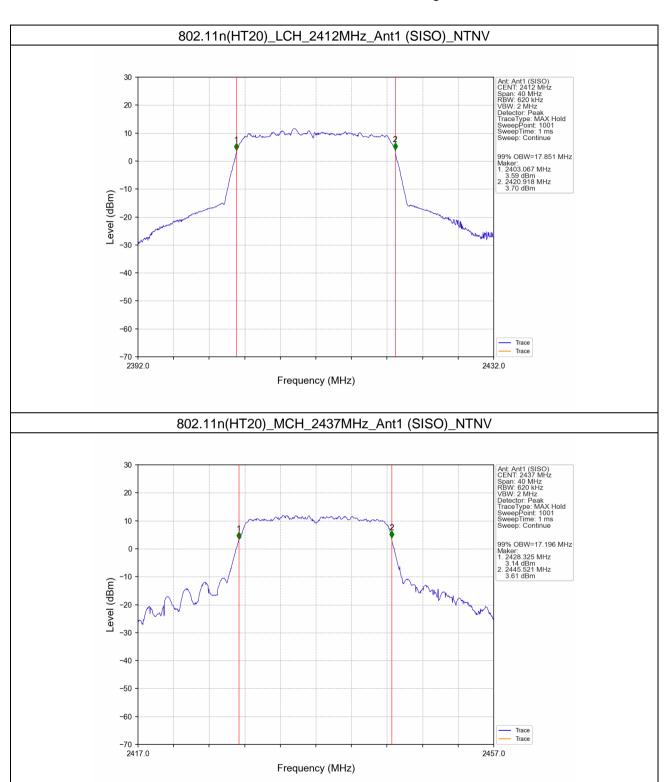
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Report No.: SZCR241200458103

Page: 102 of 135





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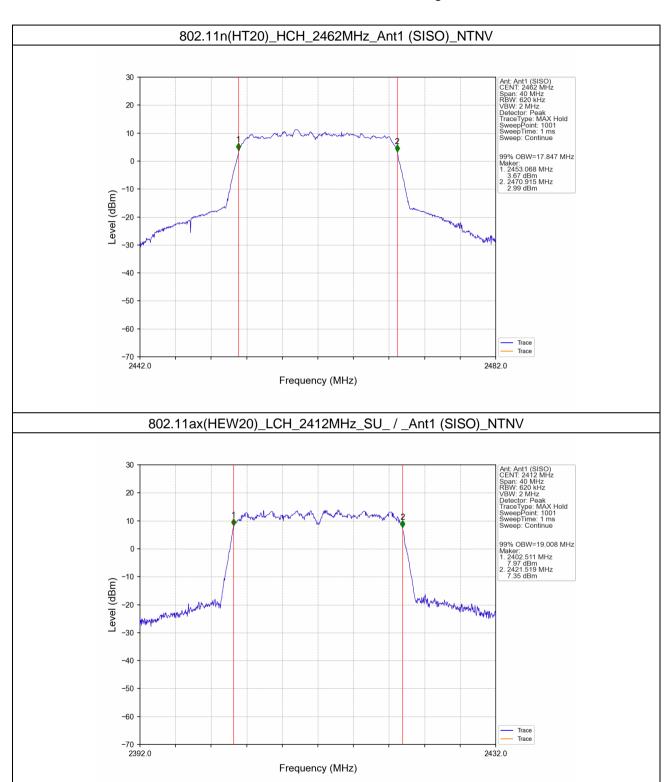
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Report No.: SZCR241200458103

Page: 103 of 135





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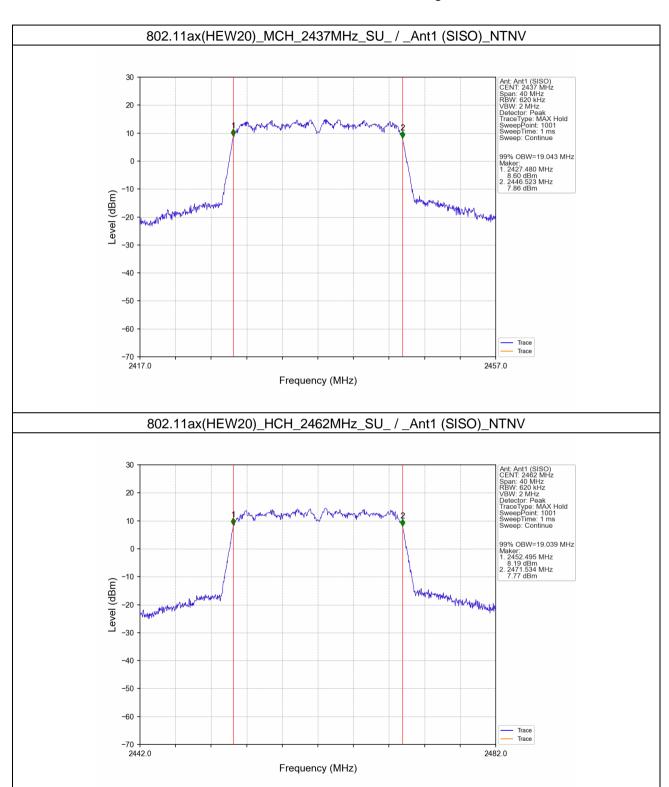
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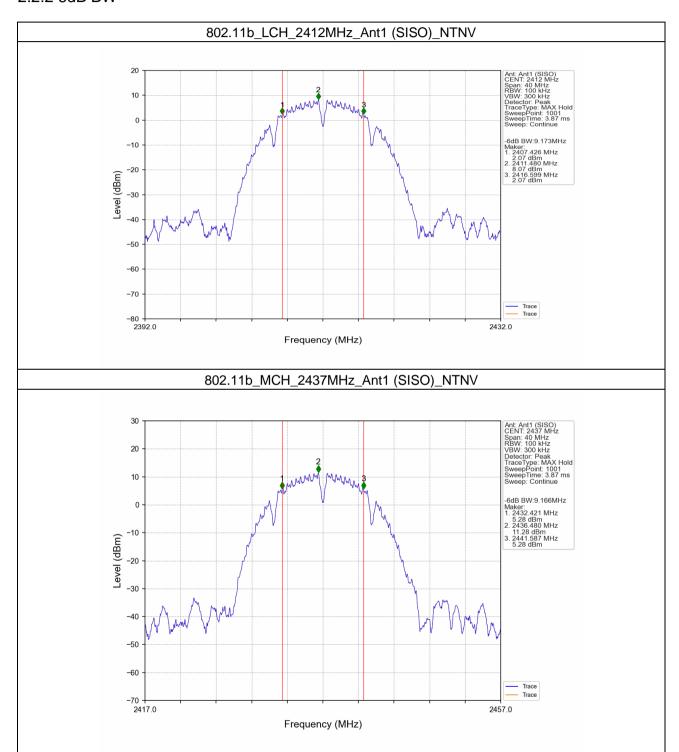


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#### 2.2.2 6dB BW





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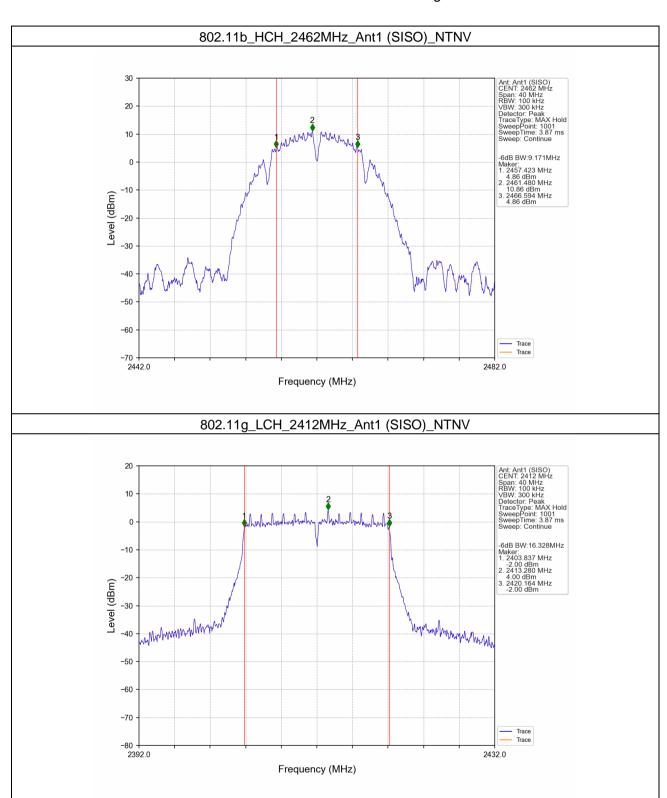
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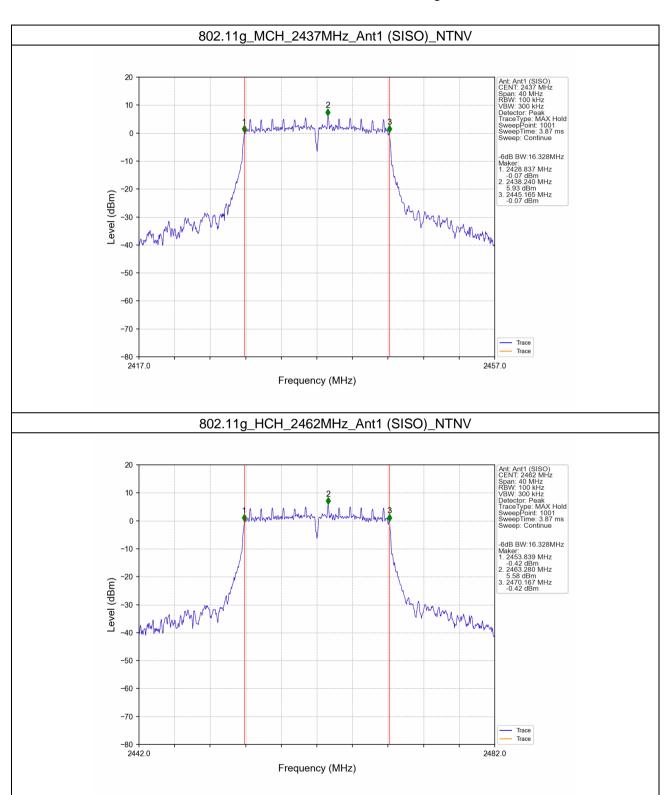
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Report No.: SZCR241200458103

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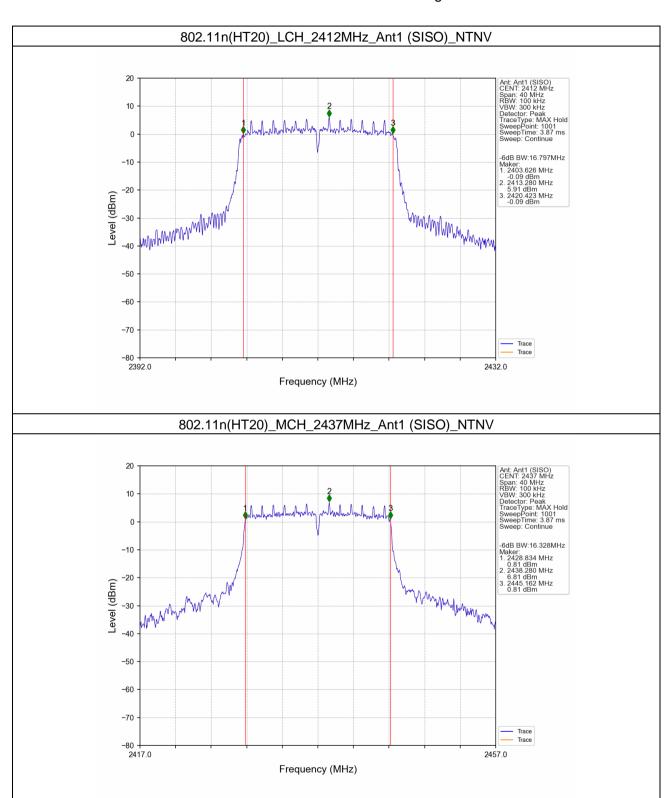
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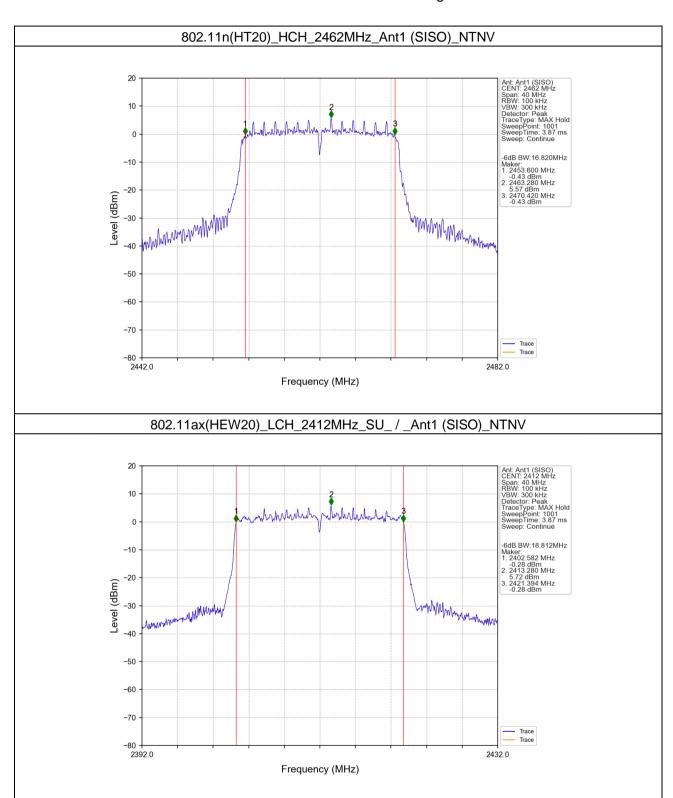
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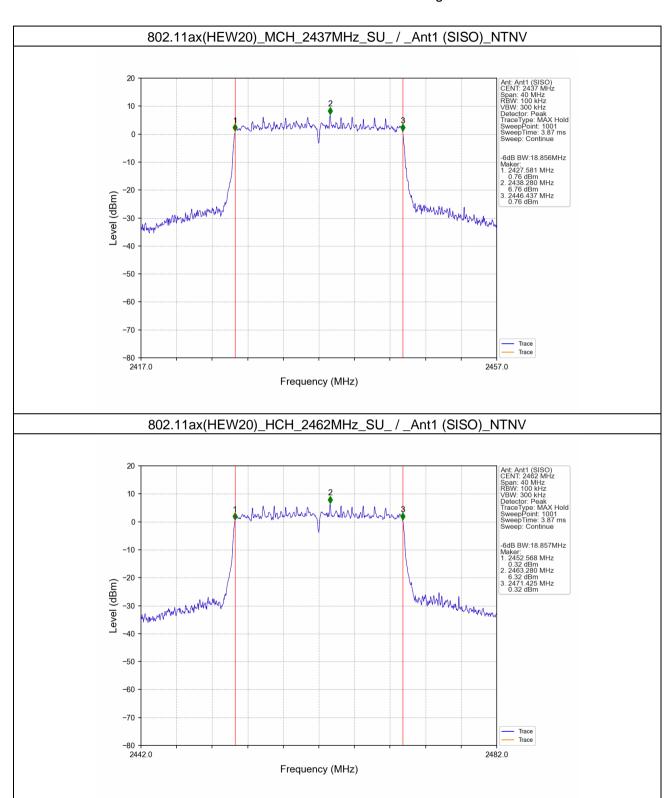
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Report No.: SZCR241200458103

Page: 110 of 135





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 111 of 135

## 3. Maximum Conducted Output Power

## 3.1 Test Result

#### 3.1.1 Power

Mode	TX	Frequency	RU	RU	Maximum Average Power	Verdict					
	Туре	(MHz)		Pos	ANT1	Limit					
		2412	/	/	20.93	<=30	Pass				
802.11b	SISO	2437	/	/	20.96	<=30	Pass				
		2462	/	/	20.52	<=30	Pass				
	SISO	2412	/	/	16.62	<=30	Pass				
802.11g		2437	/	/	16.67	<=30	Pass				
		2462	/	/	16.24	<=30	Pass				
000.44	SISO	2412	/	/	16.50	<=30	Pass				
802.11n (HT20)		2437	/	/	16.46	<=30	Pass				
(11120)		2462	/	/	16.12	<=30	Pass				
222.44						2412	SU	/	17.54	<=30	Pass
802.11ax (HEW20)	SISO	2437	SU	/	17.63	<=30	Pass				
			2462	SU	/	17.20	<=30	Pass			



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200458103

> Page: 112 of 135

## 4. Maximum Power Spectral Density

### 4.1 Test Result

### 4.1.1 PSD

Mode	TX	Frequency	DII	RU	Maximum PSI	Verdict	
iviode	Type	(MHz)			ANT1		Limit
		2412	/	/	-3.12	<=8	Pass
802.11b	SISO	2437	/	/	-3.64	<=8	Pass
		2462	/	/	-3.44	<=8	Pass
	SISO	2412	/	/	-9.27	<=8	Pass
802.11g		2437	/	/	-7.79	<=8	Pass
		2462	/	/	-9.57	<=8	Pass
222.44	SISO	2412	/	/	-8.55	<=8	Pass
802.11n (HT20)		2437	/	/	-9.10	<=8	Pass
(11120)		2462	/	/	-8.73	<=8	Pass
802.11ax (HEW20)	SISO	2412	SU	/	-9.41	<=8	Pass
		2437	SU	/	-8.95	<=8	Pass
		2462	SU	/	-9.28	<=8	Pass



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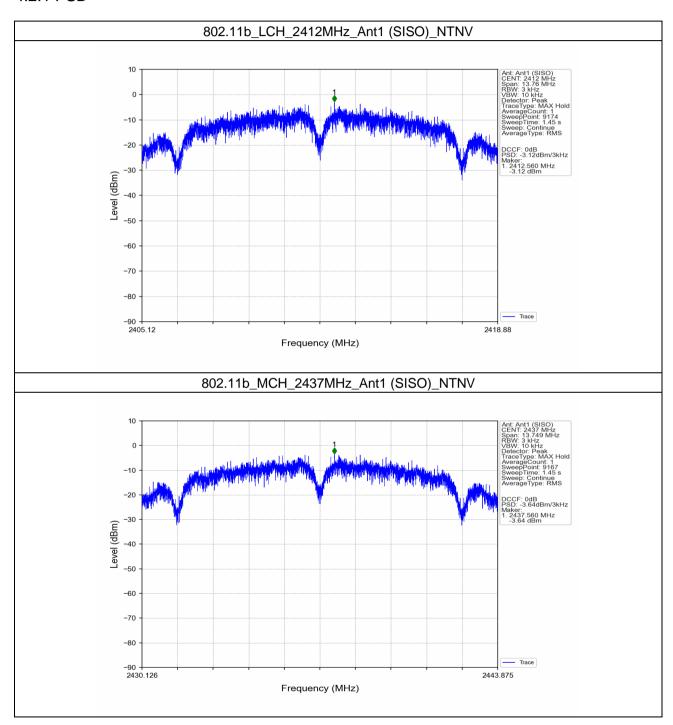
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 113 of 135

## 4.2 Test Graph

### 4.2.1 PSD





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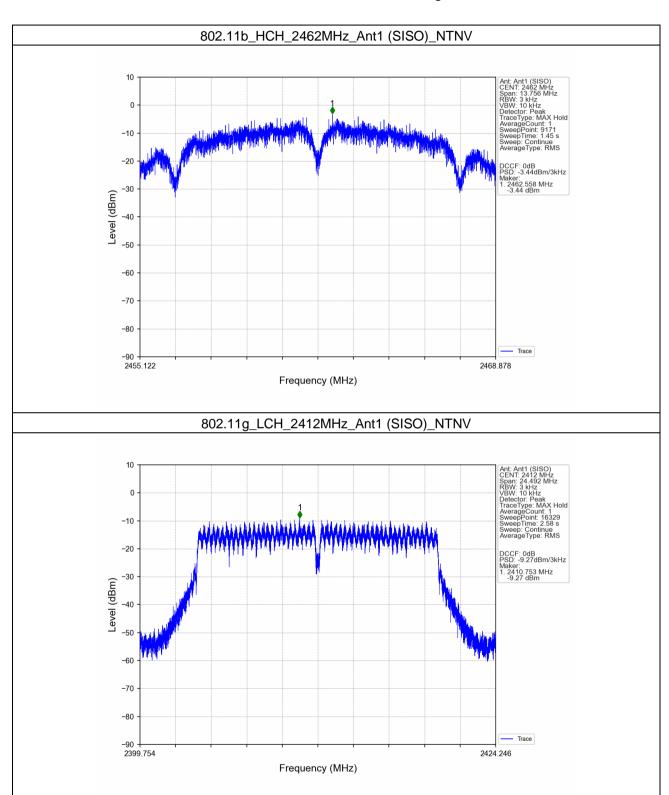
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 114 of 135





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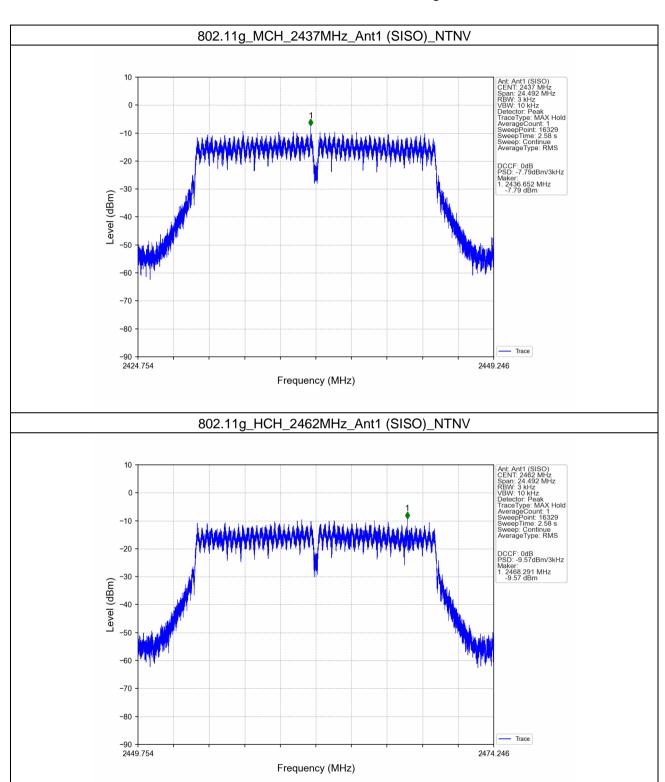
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Report No.: SZCR241200458103

Page: 115 of 135





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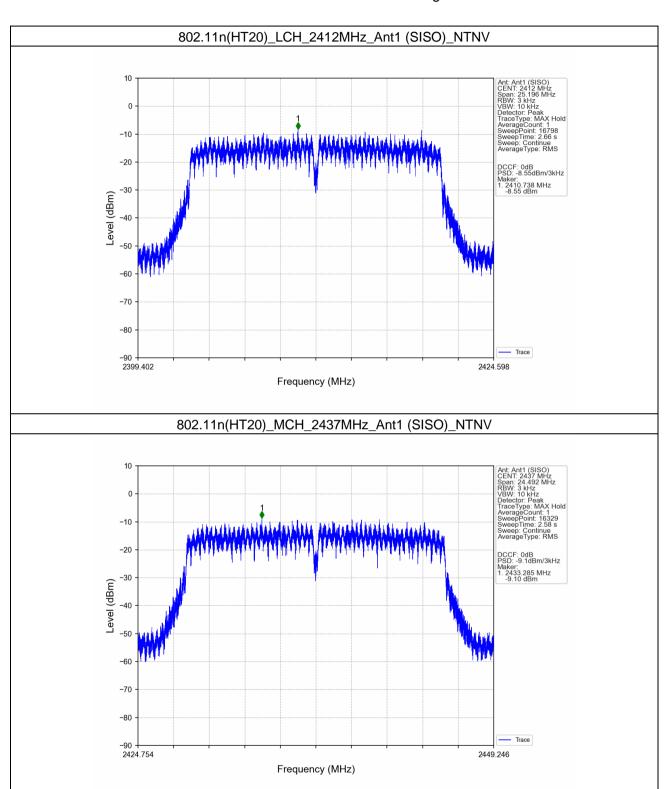
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Report No.: SZCR241200458103

Page: 116 of 135





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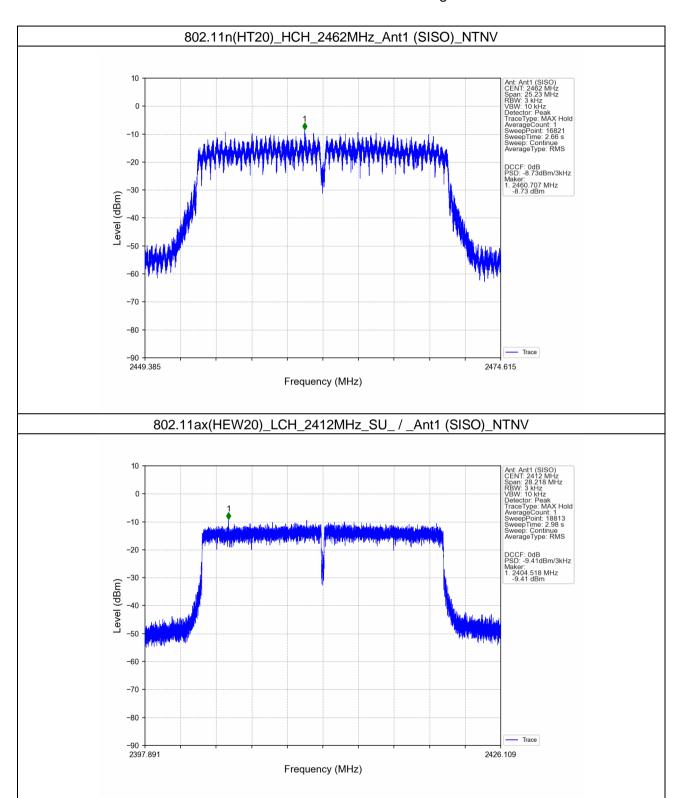
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200458103

Page: 117 of 135





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