

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241100414302

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TEST REPORT

Application No.: SZCR2411004143AT

Applicant: Vanstone Electronic (Beijing) Co., Ltd.

Address of Applicant: 3F No.2 Building, Aisino corporation park 18A, Xingshikou Road, Haidian

District, Beijing, China 100195

Manufacturer: Vanstone Electronic (Beijing) Co., Ltd.

Address of Manufacturer: 3F No.2 Building, Aisino corporation park 18A, Xingshikou Road, Haidian

District, Beijing, China 100195

Equipment Under Test (EUT):

EUT Name: SoundBox Model No.: Q181 Mini **Trade Mark:**

FCC ID: **OWLQ181-MINI**

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

Date of Receipt: 2024-11-07

2024-11-10 to 2024-11-13 **Date of Test:**

2024-11-26 Date of Issue:

Test Result: Pass*

Keny Xu **EMC Laboratory Manager**

Ceny. Ku



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



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2024-11-26		Original			

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



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Test Summary 2

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

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
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 Output Power	- Caspan C 1012 II	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	

Remark: this device may be equipped with or without amount display, all tests were performed with the amount display.



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General Information

Details of E.U.T. 4.1

 Dotallo of Eloiff	
Power supply:	DC3.7V by Li-ion battery(2000mAh)
	Battery Manufacturer: MEI ZHOU BO FU NENG TECHNOLOGY CO.,LTD
	Recharge by AC/DC Power adapter
	Adapter M/N:SW-0018C
	Adapter Input: AC100-240V, 50/60Hz, 0.2A
	Adapter Output: DC5V/1A
Cable(s):	USB Type C cable: 0.6m unshielded cable without ferrite core
Cable Loss (for RF conducted test):	0.7dB
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11
Channel Spacing:	5MHz
Antenna Type:	PCB Antenna
Antenna Gain:	0.98dBi

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

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.			
The EUT has been tested as an independent unit.						

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
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 Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB



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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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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	2024-01-30	2025-01-29	
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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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 equipment									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23				
Humidity/ Temperature Indicator	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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Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.98dBi.

Antenna location: Refer to internal photos



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Radio Spectrum Matter Test Results

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Atmospheric Pressure: 1020 mbar Humidity: 44.5 % RH

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description						
Final test	01	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report.						



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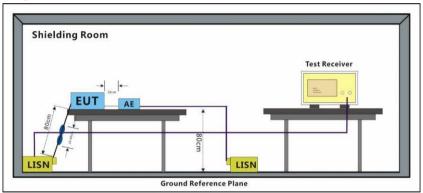


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7.1.3 Test Setup Diagram



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/50µH + 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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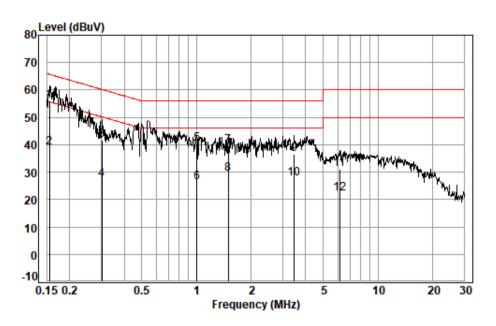


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Test Mode: 01: Line: Live line



: Shielding Room

Condition: Line Job No. : 04143AT Test mode: 01

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1548	0.06	9.81	46.12	55.99	65.74	-9.75	QP
2	0.1548	0.06	9.81	29.18	39.05	55.74	-16.69	Average
3	0.3019	0.07	9.75	31.71	41.53	60.19	-18.66	QP
4	0.3019	0.07	9.75	17.52	27.34	50.19	-22.85	Average
5	1.0050	0.09	9.71	30.49	40.29	56.00	-15.71	QP
6	1.0050	0.09	9.71	16.35	26.15	46.00	-19.85	Average
7	1.5033	0.10	9.68	29.74	39.52	56.00	-16.48	QP
8 *	1.5033	0.10	9.68	19.65	29.43	46.00	-16.57	Average
9	3.4538	0.11	9.65	26.88	36.64	56.00	-19.36	QP
10	3.4538	0.11	9.65	17.99	27.75	46.00	-18.25	Average
11	6.1534	0.14	9.76	21.22	31.12	60.00	-28.88	QP
12	6.1534	0.14	9.76	12.15	22.05	50.00	-27.95	Average



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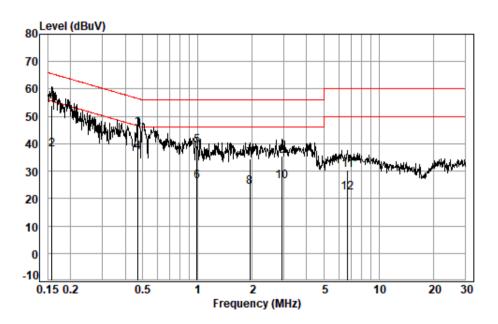


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Test Mode: 01: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 04143AT

Test mode: 01

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1582	0.06	9.82	44.28	54.16	65.56	-11.40	QP
2	0.1582	0.06	9.82	28.05	37.93	55.56	-17.63	Average
3 *	0.4711	0.08	9.73	35.69	45.50	56.49	-10.99	QP
4 *	0.4711	0.08	9.73	27.00	36.81	46.49	-9.68	Average
5	0.9944	0.09	9.73	29.59	39.41	56.00	-16.59	QP
6	0.9944	0.09	9.73	16.60	26.42	46.00	-19.58	Average
7	1.9489	0.10	9.69	24.71	34.50	56.00	-21.50	QP
8	1.9489	0.10	9.69	14.50	24.29	46.00	-21.71	Average
9	2.9307	0.11	9.67	25.86	35.64	56.00	-20.36	QP
10	2.9307	0.11	9.67	16.39	26.17	46.00	-19.83	Average
11	6.7333	0.15	9.80	20.42	30.37	60.00	-29.63	QP
12	6.7333	0.15	9.80	12.24	22.19	50.00	-27.81	Average



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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: 23.4 °C Atmospheric Pressure: 1020 mbar Humidity: 69.5 % RH

7.2.2 Test Mode Description

		•
Pre-scan / Final test	Mode Code	Description
Pre-scan	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report.
Final test	01	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report.



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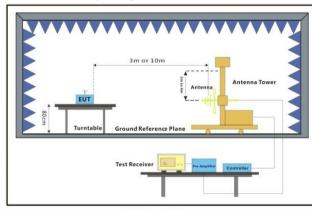


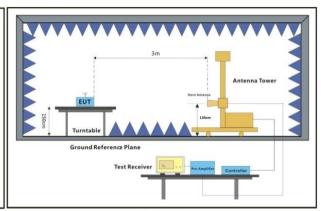
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7.2.3 Test Setup Diagram





Above 1GHz 30MHz-1GHz



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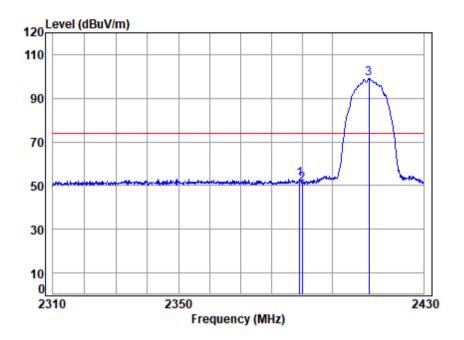


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 04143AT Job No

Mode : 2412 Band edge

: 2.4G WIFI 11B

	. 2	TO WILL	1 110						
				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
									
	MHZ	dВ	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2200 242	1E 01	20 10	22 70	10 93	E2 06	74 00	21 04	naale
1	2389.242	15.01	29.10	32./0	40.03	32.90	74.00	-21.04	peak
2	2390.000	15.81	29.10	32.78	38.72	50.85	74.00	-23.15	peak
3	n 2/12 000	15 92	20 05	32 77	27 10	99 20	7/ 00	25 20	noak



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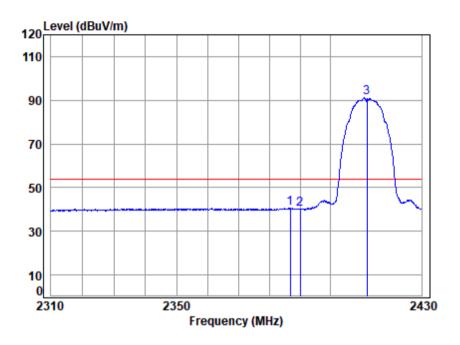


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 04143AT Job No

: 2412 Band edge Mode

: 2.4G WIFI 11B

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1	2386.823	15.81	29.10	32.78	28.55	40.68	54.00	-13.32	Average	
2	2390.000	15.81	29.10	32.78	27.84	39.97	54.00	-14.03	Average	
3	q 2412.000	15.82	29.05	32.77	78.99	91.09	54.00	37.09	Average	



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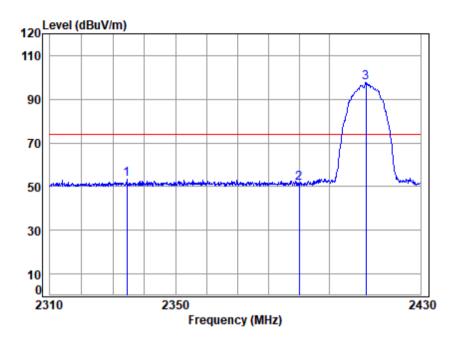


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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 04143AT Job No

: 2412 Band edge Mode

: 2.4G WIFI 11B

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2334.462	15.78	28.88	32.81	41.44	53.29	74.00	-20.71	Peak
2	2390.000	15.81	29.10	32.78	39.53	51.66	74.00	-22.34	Peak
3 p	2412.000	15.82	29.05	32.77	85.51	97.61	74.00	23.61	Peak



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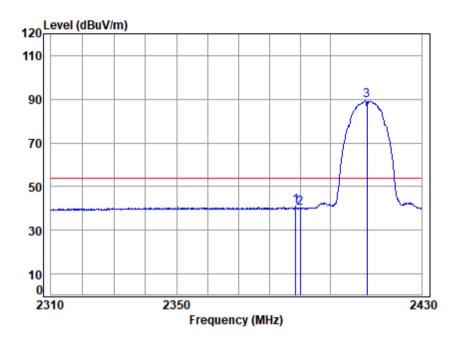


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414302

Page: 21 of 113

Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 04143AT

Mode : 2412 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	2388.516	15.81	29.10	32.78	28.79	40.92	54.00	-13.08	Average	
2	2390.000	15.81	29.10	32.78	27.98	40.11	54.00	-13.89	Average	
3 0	2412 000	15 82	29 05	32 77	77 10	89 20	54 00	35 20	Average	



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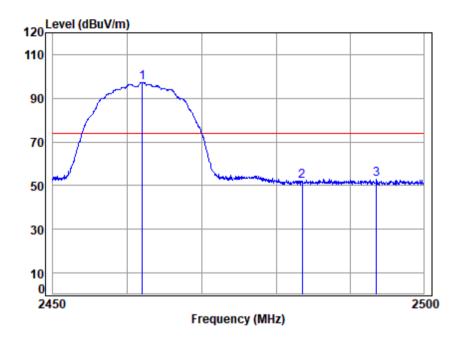


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414302

Page: 22 of 113

Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 04143AT Job No

: 2462 Band edge Mode

: 2.4G WIFI 11B

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	р	2462.000	15.85	28.90	32.74	85.30	97.31	74.00	23.31	peak
2		2483.500	15.86	28.90	32.73	39.79	51.82	74.00	-22.18	peak
3		2493.594	15.87	28.90	32.73	41.03	53.07	74.00	-20.93	peak



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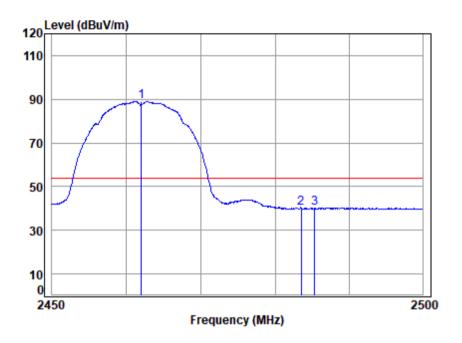


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414302

Page: 23 of 113

Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 04143AT Job No

: 2462 Band edge Mode

: 2.4G WIFI 11B

	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	77.07	89.08	54.00	35.08	Average
2	2483.500	15.86	28.90	32.73	28.12	40.15	54.00	-13.85	Average
3	2485.346	15.86	28.90	32.73	28.26	40.29	54.00	-13.71	Average



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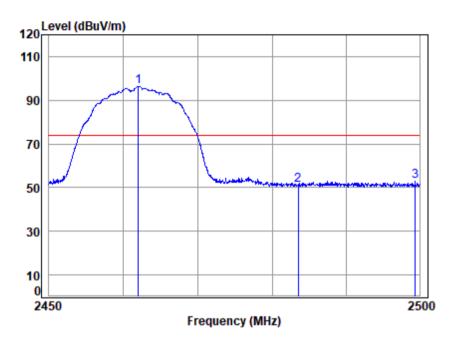


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414302

Page: 24 of 113

Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 04143AT Job No

Mode : 2462 Band edge

: 2.4G WIFI 11B

	. 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 p	2462.000	15.85	28.90	32.74	84.33	96.34	74.00	22.34	Peak
	2483.500								
	2499 394								



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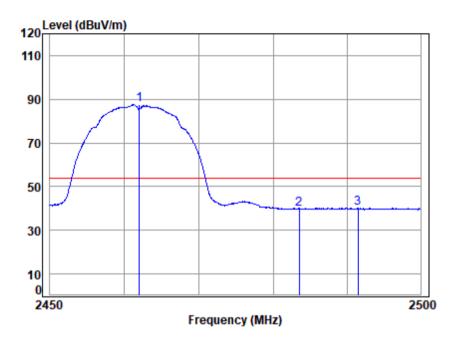


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414302

Page: 25 of 113

Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 04143AT Job No

Mode : 2462 Band edge

· 2 4G WTET 11B

. 2.	40 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 q 2462.000	15.85	28.90	32.74	75.61	87.62	54.00	33.62	Average	
2 2483.500	15.86	28.90	32.73	27.85	39.88	54.00	-14.12	Average	
3 2491.479	15.87	28 90	32 73	28 13	40 17	54 00	-13 83	Average	



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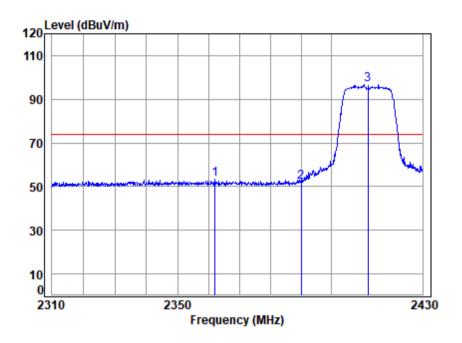


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414302

Page: 26 of 113

Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 04143AT

Mode : 2412 Band edge

· 2 4G WIFT 11G

. 2.40 WIFI IIU	
Cable Ant Preamp R	ead Limit Over
Freq Loss Factor Factor Le	vel Level Line Limit Remark
-	
MHz dB dB/m dB d	BuV dBuV/m dBuV/m dB
•	
1 2362.052 15.79 29.10 32.79 41	.18 53.28 74.00 -20.72 peak
2 2390.000 15.81 29.10 32.78 39	
3 n 2412.000 15.82 29.05 32.77 84	•



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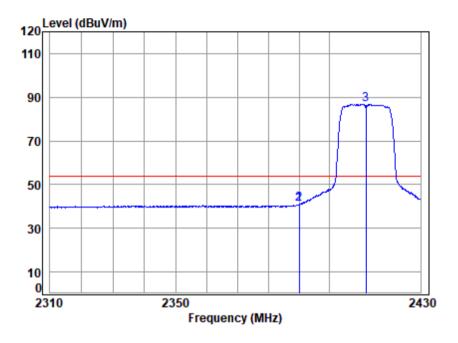


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414302

Page: 27 of 113

Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 04143AT Job No

: 2412 Band edge Mode

: 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	28.72	40.85	54.00	-13.15	Average
2	2390.000	15.81	29.10	32.78	28.72	40.85	54.00	-13.15	Average
3 (2412.000	15.82	29.05	32.77	74.64	86.74	54.00	32.74	Average



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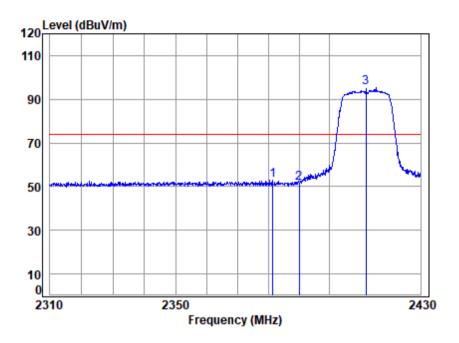


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414302

Page: 28 of 113

Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 04143AT Job No

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	
	2381.390	15.80	29.10	32.78	40.68	52.80	74.00	-21.20	Peak
)	2390.000	15.81	29.10	32.78	39.32	51.45	74.00	-22.55	Peak
	n 2/12 aaa	15 82	29 05	32 77	83 06	95 16	7/ 00	21 16	Dook



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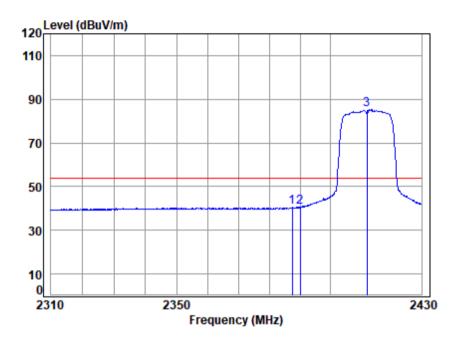


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414302

Page: 29 of 113

Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 04143AT Job No

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	2387.428	15.81	29.10	32.78	28.40	40.53	54.00	-13.47	Average
2	2390.000	15.81	29.10	32.78	28.36	40.49	54.00	-13.51	Average
3 /	2/12 000	15 82	29 05	32 77	73 04	25 1/	5/ 00	31 1/	Avenage



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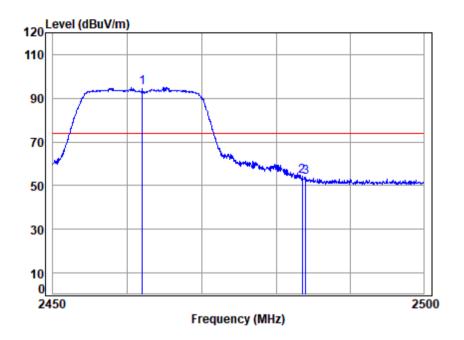


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414302

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 04143AT Job No

Mode : 2462 Band edge

: 2.4G WIFI 11G

		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	
р	2462.000	15.85	28.90	32.74	83.05	95.06	74.00	21.06	peak
	2483.500	15.86	28.90	32.73	42.16	54.19	74.00	-19.81	peak
	2/183 000	15 96	28 00	22 72	11 76	53 70	7/ 00	20 21	noak



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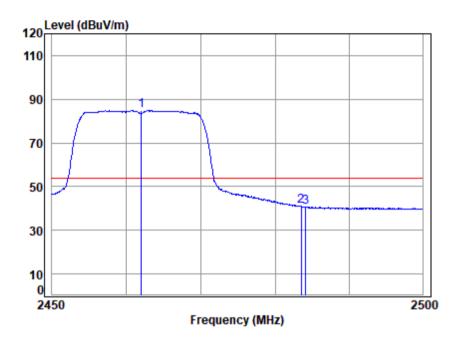


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Report No.: SZCR241100414302

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 04143AT Job No

: 2462 Band edge Mode

: 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	72.90	84.91	54.00	30.91	Average
2		2483.500	15.86	28.90	32.73	28.82	40.85	54.00	-13.15	Average
3		2484.141	15.86	28.90	32.73	28.68	40.71	54.00	-13.29	Average



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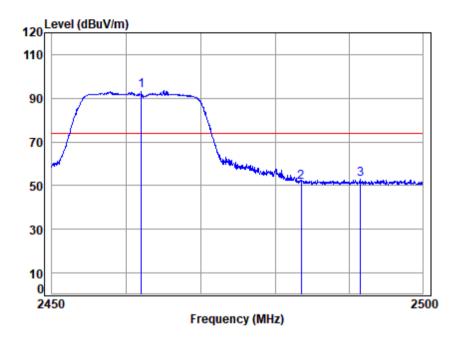


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414302

Page: 32 of 113

Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 04143AT Job No

Mode : 2462 Band edge

· 2 4G WIFT 11G

	. 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	81.58	93.59	74.00	19.59	Peak	
2	2483.500	15.86	28.90	32.73	39.39	51.42	74.00	-22.58	Peak	
3	2491 529	15 87	28 90	32 73	41 02	53 06	74 00	-20 94	Peak	



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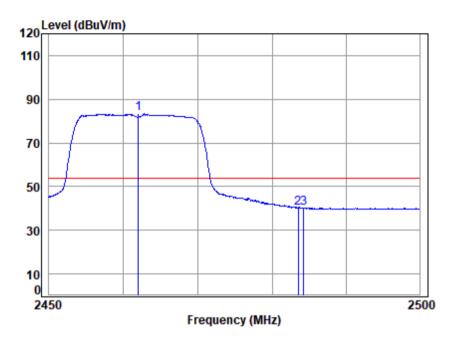


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414302

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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 04143AT

2484.241

Mode : 2462 Band edge : 2.4G WIFI 11G

15.86

28.90 32.73

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Limit Remark Line dBuV dBuV/m dBuV/m MHz dB dB/m 1 q 2462.000 32.74 71.29 83.30 54.00 29.30 Average 15.85 28.90 2483.500 15.86 28.90 32.73 28.25 54.00 -13.72 Average 40.28

28.24 40.27 54.00 -13.73 Average



2

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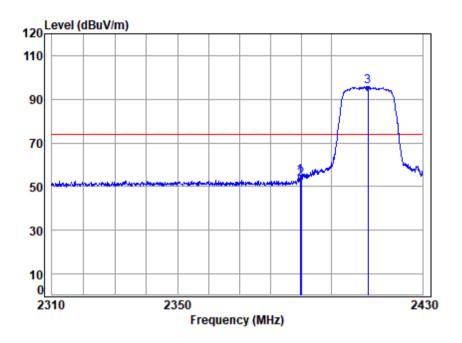


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414302

Page: 34 of 113

Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 04143AT Job No

Mode : 2412 Band edge

: 2.4G WIFI 11N20

	. 2.40 WITT TIMES									
		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	2389.726	15.81	29.10	32.78	42.73	54.86	74.00	-19.14	peak	
	2390.000								•	
	n 2/12 000								•	



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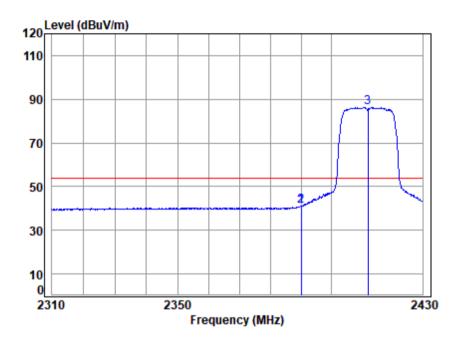


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Report No.: SZCR241100414302

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 04143AT Job No

Mode : 2412 Band edge

: 2.4G WIFI 11N20

1 2140 1111 111120										
		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		
	2389.968	15.81	29.10	32.78	28.95	41.08	54.00	-12.92	Average	
	2390.000	15.81	29.10	32.78	28.95	41.08	54.00	-12.92	Average	
q	2412.000	15.82	29.05	32.77	74.16	86.26	54.00	32.26	Average	



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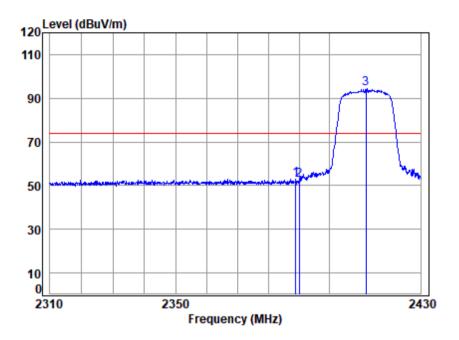


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Report No.: SZCR241100414302

Page: 36 of 113

Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 04143AT

Mode : 2412 Band edge : 2.4G WIFI 11N20

Cable Ant Preamp Read Limit 0ver

Loss Factor Factor Level Level Limit Remark Line dBuV dBuV/m dBuV/m MHz dB dB/m

2388.879 15.81 29.10 32.78 40.96 74.00 -20.91 Peak 1 53.09 2390.000 15.81 29.10 32.78 40.32 52.45 74.00 -21.55 Peak 15.82 29.05 32.77 82.13 94.23 74.00 20.23 Peak 3 p 2412.000



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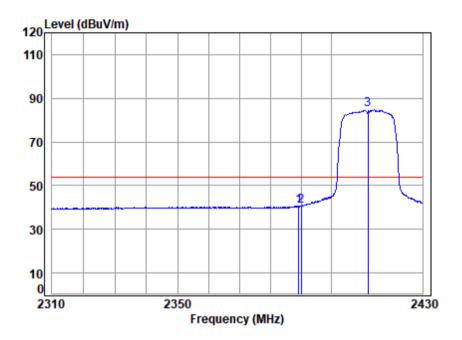


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Report No.: SZCR241100414302

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 04143AT Job No

: 2412 Band edge Mode

: 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1	2389.242	15.81	29.10	32.78	28.49	40.62	54.00	-13.38	Average	
2	2390.000	15.81	29.10	32.78	28.31	40.44	54.00	-13.56	Average	
3 g	2412.000	15.82	29.05	32.77	72.56	84.66	54.00	30.66	Average	



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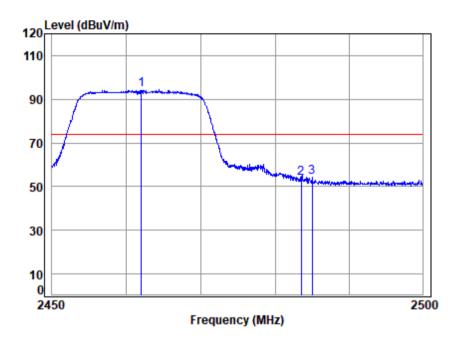


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Report No.: SZCR241100414302

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 04143AT Job No

: 2462 Band edge Mode

: 2.4G WIFI 11N20

	Freq			Preamp Factor					
•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2462.000								-
	2483.500 2484.994								•



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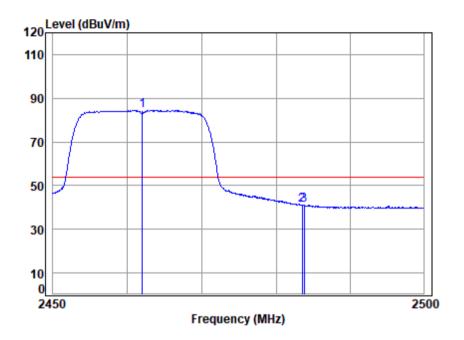


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 04143AT Job No

: 2462 Band edge Mode

: 2.4G WIFI 11N20

	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	72.53	84.54	54.00	30.54	Average	
2	2483.500	15.86	28.90	32.73	29.13	41.16	54.00	-12.84	Average	
3	2483.790	15.86	28.90	32.73	29.02	41.05	54.00	-12.95	Average	



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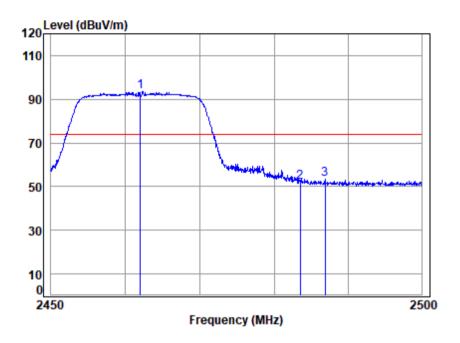


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Report No.: SZCR241100414302

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 04143AT Job No

Mode : 2462 Band edge

: 2.4G WIFI 11N20

	. 2	TO WILL	1 1111/2						
		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	81.36	93.37	74.00	19.37	Peak
	2483.500	15.86	28.90	32.73	39.91	51.94	74.00	-22.06	Peak
	2/186 9/3	15 86	28 90	32 73	/11 23	53 26	7/ 00	-20 74	Poak



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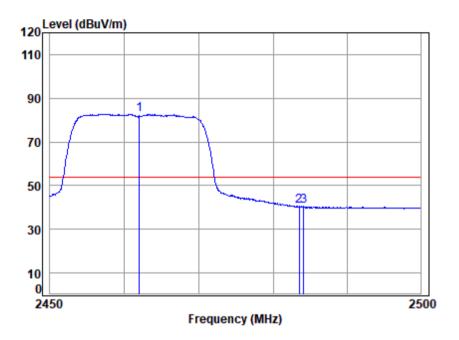


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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 04143AT Job No

: 2462 Band edge Mode

: 2.4G WIFI 11N20

					_					
		Γ			Preamp					Damanla
		Freq	LOSS	Factor	Factor	rever	rever	Line	LIMIC	remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
							-	•		
4	_	2462 000	15 05	20.00	22 74	70 61	92 62	E4 00	20 62	A
Τ	q	2462.000	15.05	20.90	32.74	70.61	02.02	54.00	20.02	Average
2		2483.500	15.86	28.90	32.73	28.44	40.47	54.00	-13.53	Average
3		2484.141	15.86	28.90	32.73	28.43	40.46	54.00	-13.54	Average



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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

Measurement Distance: 3m

Limit:

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

7.3.1 E.U.T. Operation

Operating Environment:

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

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report.
Final test	01	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report.



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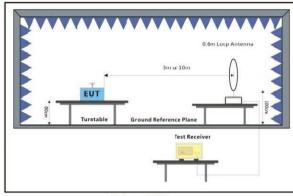
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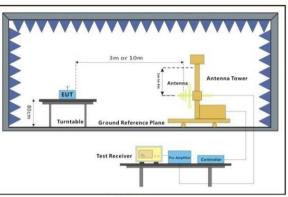


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7.3.3 Test Setup Diagram





Below 30MHz 30MHz-1GHz

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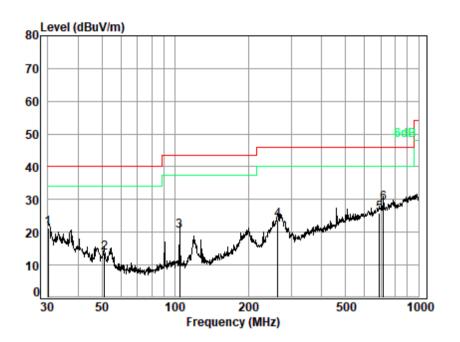


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Report No.: SZCR241100414302

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Test Mode: 01; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 04143AT

Test Mode: 01

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.105	21.15	0.6/	2/./9	27.22	21.25	40.00	-18./5	QР
2	51.121	12.58	0.87	27.73	27.82	13.54	40.00	-26.46	QP
3	104.170	12.22	1.25	27.57	34.54	20.44	43.50	-23.06	QP
4	263.819	17.11	2.06	26.90	31.52	23.79	46.00	-22.21	QP
5	691.987	25.74	3.52	27.74	24.48	26.00	46.00	-20.00	QP
6 a	716.682	26.20	3.60	27.68	26.91	29.03	46.00	-16.97	OP



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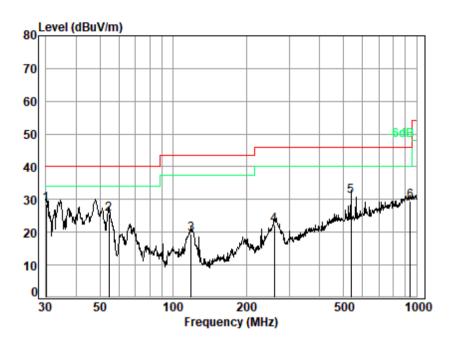


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Test Mode: 01: Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL Job No. : 04143AT

Test Mode: 01

2 3

4

5

Ant Cable Preamp Limit 0ver Read Loss Factor Freq Factor Level Line Limit Remark Level MHz dB/m dB dBuV dBuV/m dBuV/m 21.15 34.71 30.105 0.67 27.79 28.74 40.00 -11.26 OP 54.452 12.05 0.90 27.72 40.31 25.54 40.00 -14.46 QP 118.601 11.16 1.35 27.51 34.52 19.52 43.50 -23.98 QP 260.144 17.22 2.05 26.92 30.00 22.35 46.00 -23.65 QP 537.589 23.53 3.05 27.72 32.05 30.91 46.00 -15.09 OP 942.131 28.19 4.23 26.46 23.49 29.45 46.00 -16.55 OP



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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)
Ī	Above 1000	500	3

7.4.1 E.U.T. Operation

Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 23.4 °C Humidity: 69.4 % RH

7.4.2 Test Mode Description

7.4.2 1 CSt IV	iouc Dc.	oon paon
Pre-scan / Final test	Mode Code	Description
Pre-scan	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report.
Final test	01	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report.



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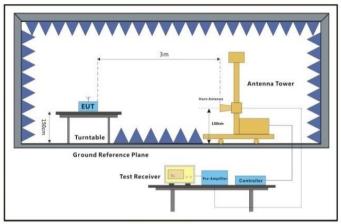


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7.4.3 Test Setup Diagram



Above 1GHz



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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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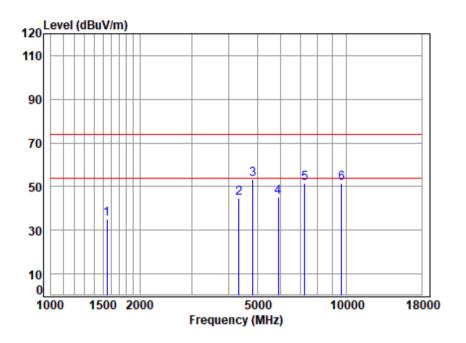


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 04143AT

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		1547.199	4.67	26.99	61.50	64.91	35.07	74.00	-38.93	peak
2		4341.886	8.07	34.34	61.22	63.65	44.84	74.00	-29.16	peak
3	р	4824.000	8.01	34.40	61.02	72.15	53.54	74.00	-20.46	peak
4		5898.442	9.48	34.59	60.64	61.77	45.20	74.00	-28.80	peak
5		7236.000	9.29	35.70	60.39	66.84	51.44	74.00	-22.56	peak
6		9648.000	11.38	37.50	61.27	63.95	51.56	74.00	-22.44	peak



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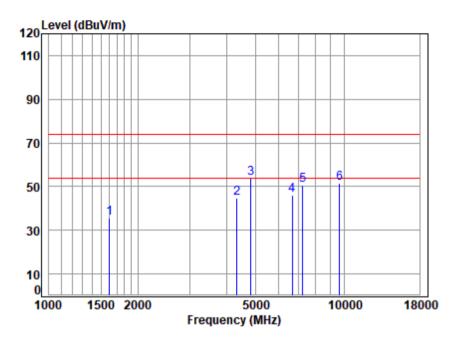


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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 04143AT

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		1601.804	4.79	26.78	61.52	65.63	35.68	74.00	-38.32	peak
2		4329.354	8.09	34.23	61.23	63.49	44.58	74.00	-29.42	peak
3	р	4824.000	8.01	34.40	61.02	72.39	53.78	74.00	-20.22	peak
4		6679.040	9.28	35.20	60.48	62.17	46.17	74.00	-27.83	peak
5		7236.000	9.29	35.70	60.39	66.10	50.70	74.00	-23.30	peak
6		9648.000	11.38	37.50	61.27	63.97	51.58	74.00	-22.42	peak



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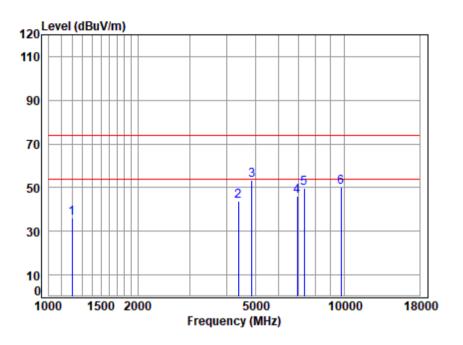


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

: 04143AT Job No

Mode : 2437 TX RSE

: 2.4G WIFI 11B

			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	1196	.264	4.56	24.36	61.38	68.40	35.94	74.00	-38.06	peak
2	4392	.376	8.00	34.74	61.20	62.37	43.91	74.00	-30.09	peak
3	p 4874	.000	8.03	34.60	61.00	71.89	53.52	74.00	-20.48	peak
4	6934	.778	9.48	35.74	60.44	61.43	46.21	74.00	-27.79	peak
5	7311	.000	9.21	35.70	60.38	65.38	49.91	74.00	-24.09	peak
6	9748	.000	11.32	37.40	61.32	62.72	50.12	74.00	-23.88	peak



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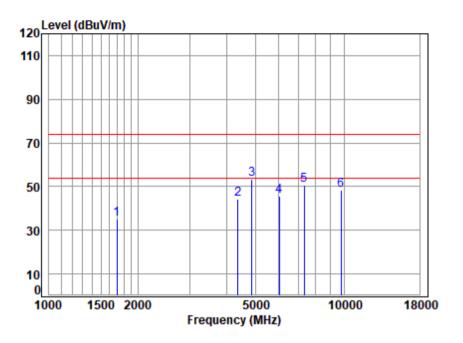


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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 04143AT Job No

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		1697.129	4.99	26.21	61.54	65.31	34.97	74.00	-39.03	peak
2		4367.058	8.04	34.54	61.21	62.96	44.33	74.00	-29.67	peak
3	р	4874.000	8.03	34.60	61.00	71.87	53.50	74.00	-20.50	peak
4		6036.421	9.49	34.97	60.60	61.90	45.76	74.00	-28.24	peak
5		7311.000	9.21	35.70	60.38	66.01	50.54	74.00	-23.46	peak
6		9748.000	11.32	37.40	61.32	60.93	48.33	74.00	-25.67	peak



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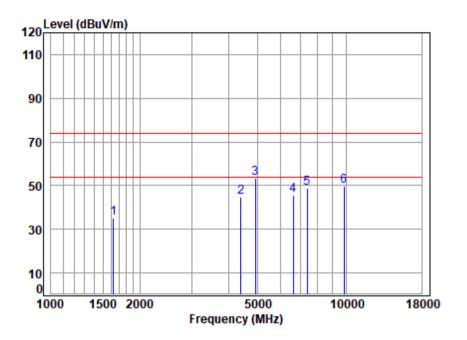


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 04143AT

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	1629.825	4.85	26.50	61.53	65.47	35.29	74.00	-38.71	peak
2	4405.090	7.99	34.74	61.20	63.31	44.84	74.00	-29.16	peak
3	p 4924.000	8.05	34.65	60.99	71.88	53.59	74.00	-20.41	peak
4	6621.375	9.24	35.26	60.49	61.42	45.43	74.00	-28.57	peak
5	7386.000	9.14	35.77	60.36	64.43	48.98	74.00	-25.02	peak
6	9848.000	11.27	37.20	61.38	62.63	49.72	74.00	-24.28	peak



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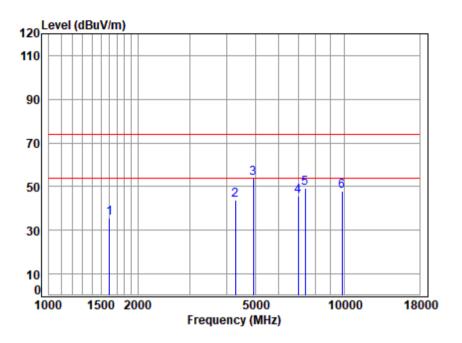


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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 04143AT Job No

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		1601.804	4.79	26.78	61.52	65.54	35.59	74.00	-38.41	peak
2		4291.977	8.14	33.97	61.25	63.12	43.98	74.00	-30.02	peak
3	р	4924.000	8.05	34.65	60.99	72.14	53.85	74.00	-20.15	peak
4		6995.172	9.53	35.71	60.43	60.87	45.68	74.00	-28.32	peak
5		7386.000	9.14	35.77	60.36	64.79	49.34	74.00	-24.66	peak
6		9848.000	11.27	37.20	61.38	60.74	47.83	74.00	-26.17	peak



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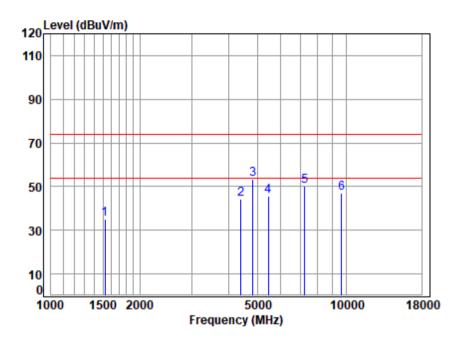


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 04143AT

Mode : 2412 TX RSE

: 2.4G WIFI 11G

	. 2.	TO MILI	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	1525.000	4.63	26.90	61.49	64.88	34.92	74.00	-39.08	peak
2	4405.090	7.99	34.74	61.20	62.67	44.20	74.00	-29.80	peak
3	p 4824.000	8.01	34.40	61.02	71.86	53.25	74.00	-20.75	peak
4	5455.631	9.20	34.68	60.79	62.72	45.81	74.00	-28.19	peak
5	7236.000	9.29	35.70	60.39	65.68	50.28	74.00	-23.72	peak
6	9648.000	11.38	37.50	61.27	59.25	46.86	74.00	-27.14	peak



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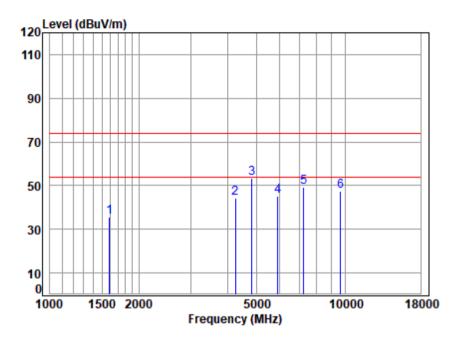


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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 04143AT

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		1592.571	4.77	26.83	61.51	65.69	35.78	74.00	-38.22	peak
2		4242.641	8.21	33.80	61.27	63.55	44.29	74.00	-29.71	peak
3	р	4824.000	8.01	34.40	61.02	72.19	53.58	74.00	-20.42	peak
4		5915.516	9.48	34.63	60.64	61.92	45.39	74.00	-28.61	peak
5		7236.000	9.29	35.70	60.39	64.60	49.20	74.00	-24.80	peak
6		9648.000	11.38	37.50	61.27	59.87	47.48	74.00	-26.52	peak



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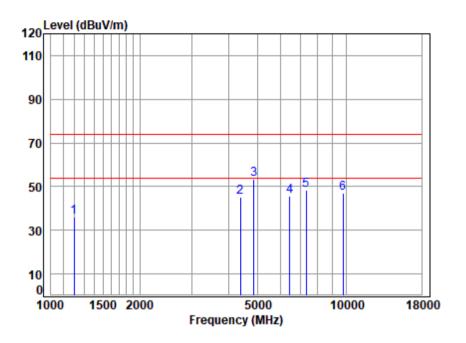


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

: 04143AT Job No

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	1196.264	4.56	24.36	61.38	68.65	36.19	74.00	-37.81	peak
2	4379.699	8.02	34.64	61.21	63.58	45.03	74.00	-28.97	peak
3 p	4874.000	8.03	34.60	61.00	71.57	53.20	74.00	-20.80	peak
4	6451.353	9.18	35.50	60.52	61.67	45.83	74.00	-28.17	peak
5	7311.000	9.21	35.70	60.38	64.05	48.58	74.00	-25.42	peak
6	9748.000	11.32	37.40	61.32	59.39	46.79	74.00	-27.21	peak



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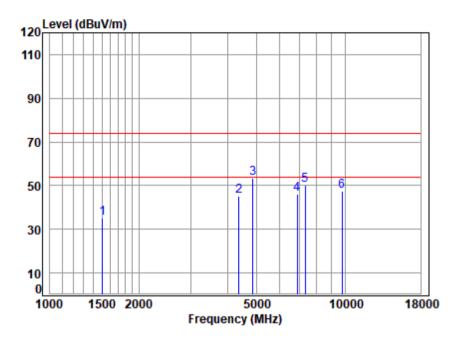


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Report No.: SZCR241100414302

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Test Mode: 01; Polarity: Vertical; Modulation:802.11q; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 04143AT Job No

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		1507.470	4.59	26.83	61.49	65.34	35.27	74.00	-38.73	peak
2		4367.058	8.04	34.54	61.21	63.81	45.18	74.00	-28.82	peak
3	р	4874.000	8.03	34.60	61.00	71.81	53.44	74.00	-20.56	peak
4		6874.906	9.44	35.55	60.45	61.77	46.31	74.00	-27.69	peak
5		7311.000	9.21	35.70	60.38	65.46	49.99	74.00	-24.01	peak
6		9748.000	11.32	37.40	61.32	59.89	47.29	74.00	-26.71	peak



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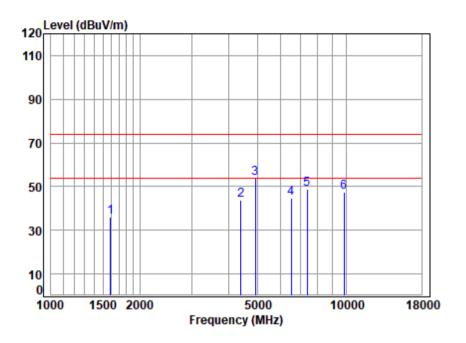


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Report No.: SZCR241100414302

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 04143AT Job No

Mode : 2462 TX RSE

: 2.4G WIFI 11G

		G 111							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.571	4.77	26.83	61.51	65.74	35.83	74.00	-38.17	peak
2	4405.090	7.99	34.74	61.20	62.45	43.98	74.00	-30.02	peak
3	p 4924.000	8.05	34.65	60.99	71.97	53.68	74.00	-20.32	peak
4	6526.373	9.16	35.55	60.51	60.56	44.76	74.00	-29.24	peak
5	7386.000	9.14	35.77	60.36	64.29	48.84	74.00	-25.16	peak
6	9848.000	11.27	37.20	61.38	60.19	47.28	74.00	-26.72	peak



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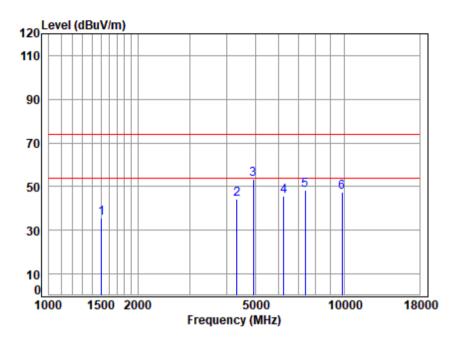


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414302

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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 04143AT

Mode : 2462 TX RSE

: 2.4G WIFI 11G

			TO MILI	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		1507.470	4.59	26.83	61.49	65.83	35.76	74.00	-38.24	peak
2		4329.354	8.09	34.23	61.23	63.21	44.30	74.00	-29.70	peak
3	р	4924.000	8.05	34.65	60.99	71.55	53.26	74.00	-20.74	peak
4		6249.464	9.33	34.90	60.56	61.81	45.48	74.00	-28.52	peak
5		7386.000	9.14	35.77	60.36	63.91	48.46	74.00	-25.54	peak
6		9848.000	11.27	37.20	61.38	60.53	47.62	74.00	-26.38	peak



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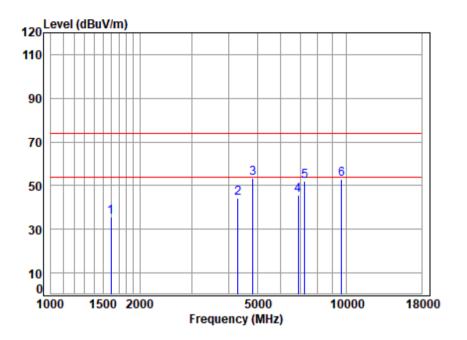


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414302

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 04143AT Job No

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		1597.181	4.78	26.81	61.52	65.69	35.76	74.00	-38.24	peak
2		4304.400	8.12	34.04	61.24	63.28	44.20	74.00	-29.80	peak
3	р	4824.000	8.01	34.40	61.02	71.88	53.27	74.00	-20.73	peak
4		6874.906	9.44	35.55	60.45	61.19	45.73	74.00	-28.27	peak
5		7236.000	9.29	35.70	60.39	67.48	52.08	74.00	-21.92	peak
6		9648.000	11.38	37.50	61.27	65.40	53.01	74.00	-20.99	peak



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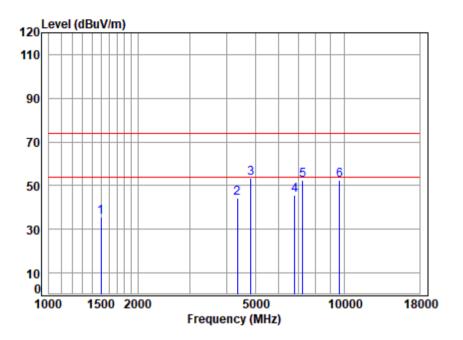


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414302

Page: 62 of 113

Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 04143AT Job No

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	61.49	65.88	35.73	74.00	-38.27	peak
2	4354.454	8.06	34.44	61.22	62.92	44.20	74.00	-29.80	peak
3	p 4824.000	8.01	34.40	61.02	72.10	53.49	74.00	-20.51	peak
4	6795.879	9.37	35.29	60.46	61.44	45.64	74.00	-28.36	peak
5	7236.000	9.29	35.70	60.39	68.03	52.63	74.00	-21.37	peak
6	9648.000	11.38	37.50	61.27	64.95	52.56	74.00	-21.44	peak



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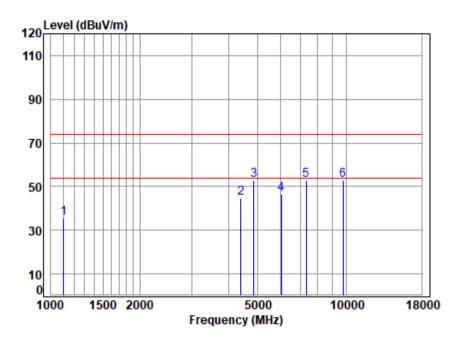


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Report No.: SZCR241100414302

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

: 04143AT Job No

Mode : 2437 TX RSE

: 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1103.264	4.55	23.71	61.35	68.57	35.48	74.00	-38.52	peak
2	4405.090	7.99	34.74	61.20	63.11	44.64	74.00	-29.36	peak
3	4874.000	8.03	34.60	61.00	71.39	53.02	74.00	-20.98	peak
4	6018.999	9.50	34.94	60.61	62.56	46.39	74.00	-27.61	peak
5	7311.000	9.21	35.70	60.38	68.25	52.78	74.00	-21.22	peak
6	p 9748.000	11.32	37.40	61.32	65.64	53.04	74.00	-20.96	peak



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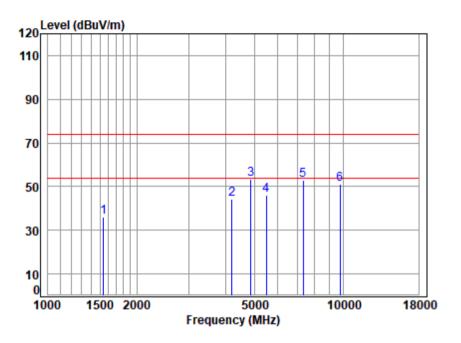


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Report No.: SZCR241100414302

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 04143AT Job No

Mode : 2437 TX RSE

: 2.4G WIFI 11N20

	. 21 14 1111 121120									
			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		1542.733	4.66	26.97	61.50	65.72	35.85	74.00	-38.15	peak
2		4206.011	8.26	33.80	61.28	63.63	44.41	74.00	-29.59	peak
3	р	4874.000	8.03	34.60	61.00	71.78	53.41	74.00	-20.59	peak
4		5487.260	9.27	34.55	60.78	62.92	45.96	74.00	-28.04	peak
5		7311.000	9.21	35.70	60.38	68.25	52.78	74.00	-21.22	peak
6		9748.000	11.32	37.40	61.32	63.71	51.11	74.00	-22.89	peak



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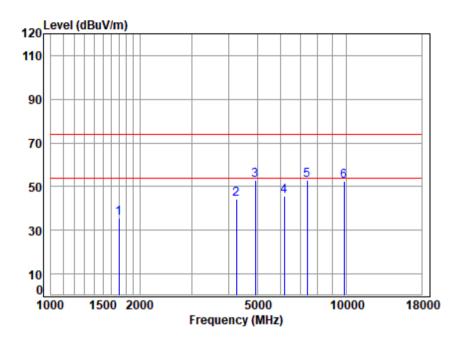


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Report No.: SZCR241100414302

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 04143AT Job No

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		1697.129	4.99	26.21	61.54	65.92	35.58	74.00	-38.42	peak
2		4242.641	8.21	33.80	61.27	63.74	44.48	74.00	-29.52	peak
3	р	4924.000	8.05	34.65	60.99	71.42	53.13	74.00	-20.87	peak
4		6177.627	9.38	34.79	60.58	61.86	45.45	74.00	-28.55	peak
5		7386.000	9.14	35.77	60.36	68.49	53.04	74.00	-20.96	peak
6		9848.000	11.27	37.20	61.38	65.28	52.37	74.00	-21.63	peak



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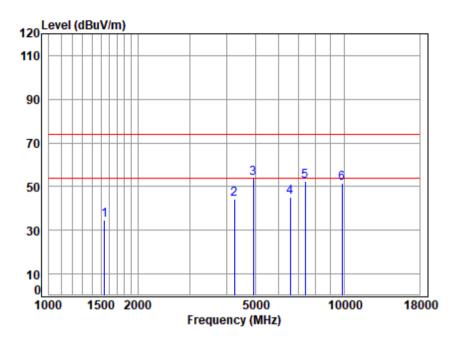


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Report No.: SZCR241100414302

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 04143AT Job No

Mode : 2462 TX RSE

: 2.4G WIFI 11N20

	1 21 10 1121 2 221120									
			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	15	42.733	4.66	26.97	61.50	64.74	34.87	74.00	-39.13	peak
2	42	42.641	8.21	33.80	61.27	63.70	44.44	74.00	-29.56	peak
3	p 49	24.000	8.05	34.65	60.99	72.24	53.95	74.00	-20.05	peak
4	65	64.209	9.19	35.44	60.50	61.10	45.23	74.00	-28.77	peak
5	73	86.000	9.14	35.77	60.36	67.91	52.46	74.00	-21.54	peak
6	98	48.000	11.27	37.20	61.38	64.37	51.46	74.00	-22.54	peak



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7.5 Conducted Output Power

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

Limit:

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.2 °C Humidity: 52.9 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

7.0.2 Test mode bescription						
Pre-scan / Final test	Mode Code	Description				
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report.				



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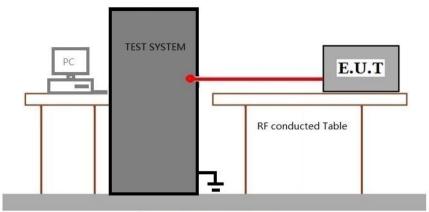


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7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 Minimum 6dB Bandwidth

Test Requirement Test Method:

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

Limit:

≥500 kHz

7.6.1 E.U.T. Operation

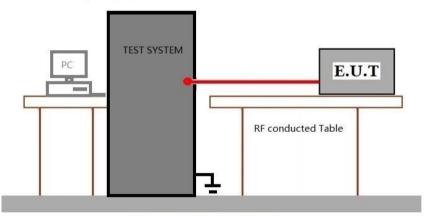
Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 24.2 °C Humidity: 52.9 % RH

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. 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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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

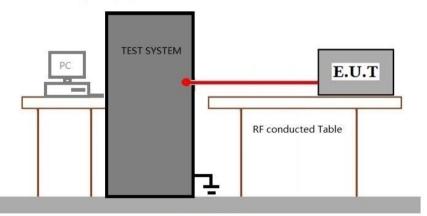
Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 24.2 °C Humidity: 52.9 % RH

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



Ground Reference Plane

7.7.4 Measurement Procedure and Data

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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: 24.2 °C Humidity: 52.9 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

1.0.2 Test W	1.0.2 Test mode Description					
Pre-scan / Final test	Mode Code	Description				
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report.				



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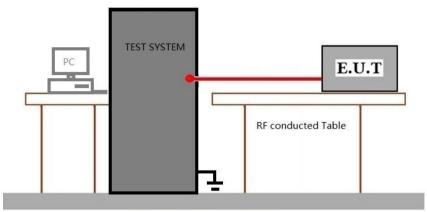


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7.8.3 Test Setup Diagram



Ground Reference Plane

7.8.4 Measurement Procedure and Data

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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: 24.2 °C Humidity: 52.9 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

1.3.2 1 CSt W	7.3.2 Test mode bescription						
Pre-scan / Final test	Mode Code	Description					
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report.					



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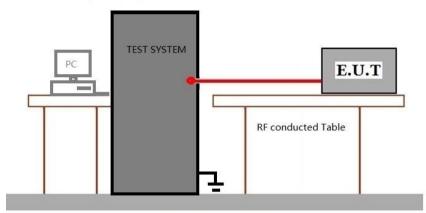


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7.9.3 Test Setup Diagram



Ground Reference Plane

7.9.4 Measurement Procedure and Data

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Test Setup Photo 8

Refer to Appendix - Test Setup Photo for SZCR2411004143AT

EUT Constructional Details (EUT Photos) 9

Refer to Appendix_Photographs of EUT Constructional Details for SZCR2411004143AT



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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

	Ant1								
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)		
		2412	32.953	32.980	99.92	0.00	0.00		
802.11b	SISO	2437	32.953	32.980	99.92	0.00	0.00		
		2462	32.953	32.980	99.92	0.00	0.00		
	SISO	2412	5.484	5.509	99.55	0.02	0.03		
802.11g		2437	5.484	5.510	99.53	0.02	0.04		
		2462	5.484	5.510	99.53	0.02	0.04		
000 44	SISO	2412	5.079	5.104	99.51	0.02	0.04		
802.11n (HT20)		2437	5.080	5.105	99.51	0.02	0.04		
		2462	5.079	5.105	99.49	0.02	0.04		



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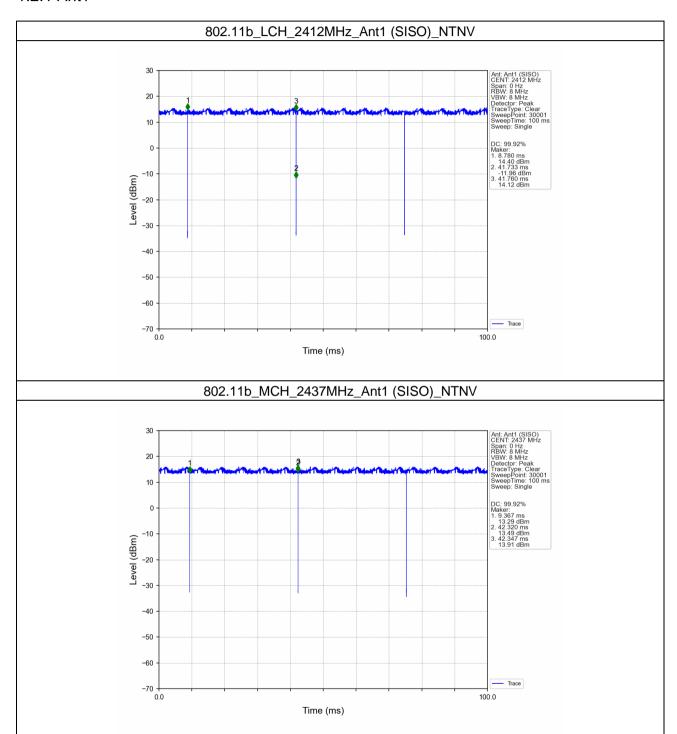
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1.2 Test Graph

1.2.1 Ant1





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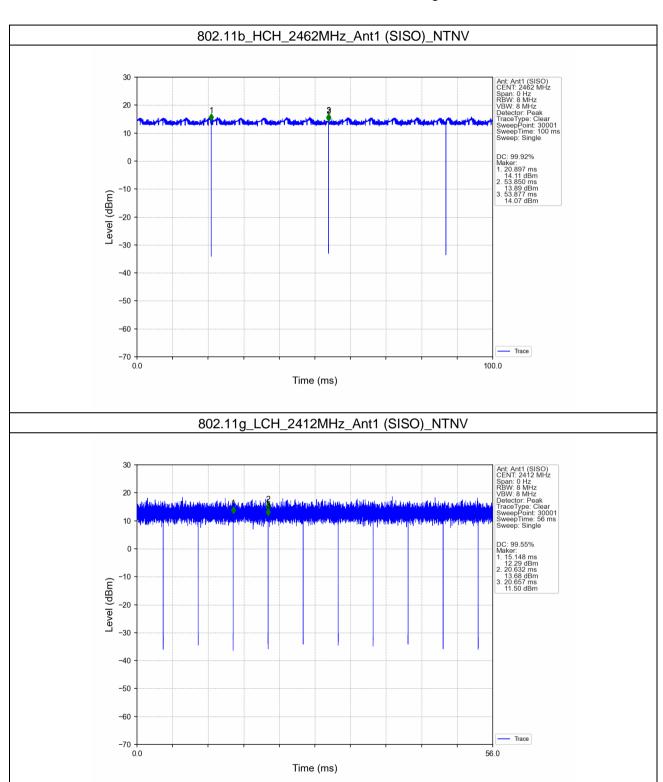
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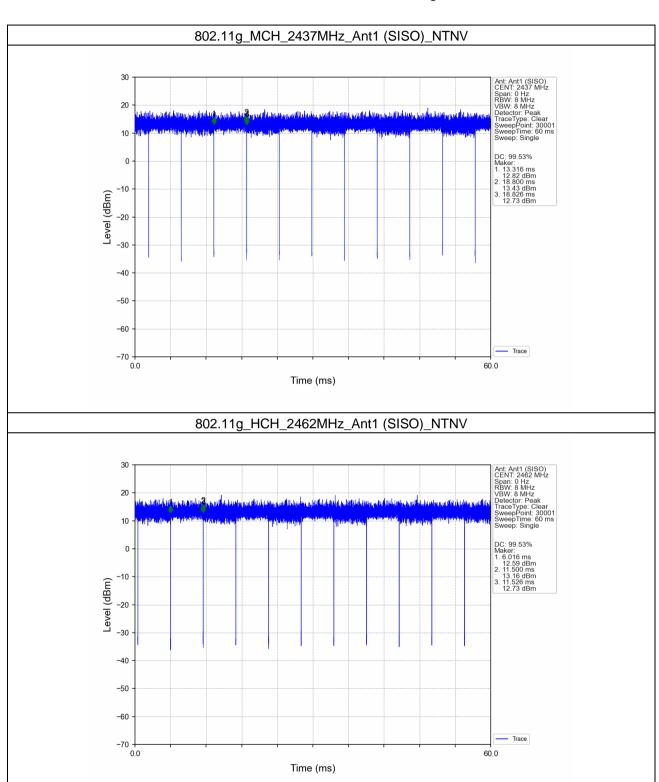
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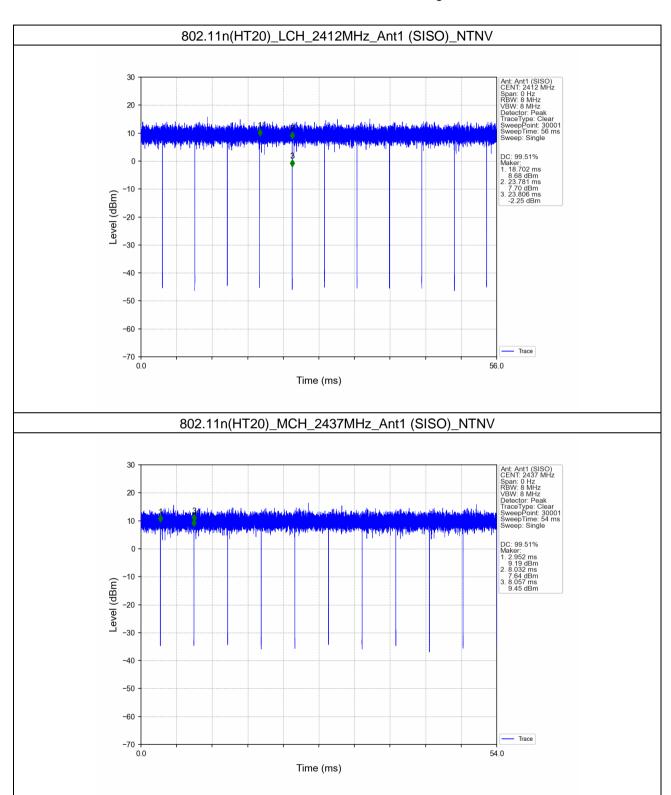
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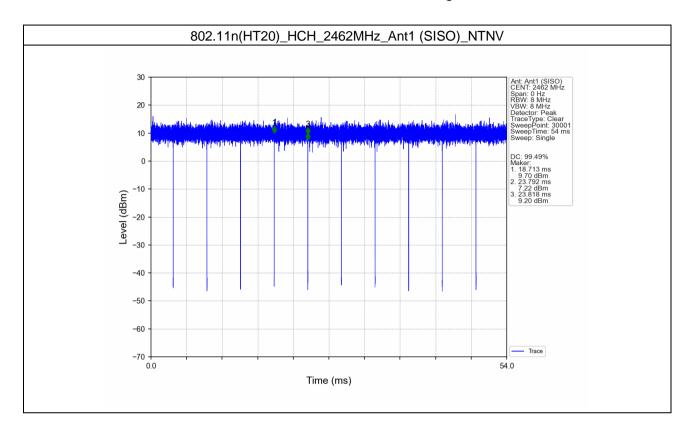
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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX	Frequency	ANT	99% Occupied E	Verdict		
Mode	Type	(MHz)	ANI	Result	Limit	verdict	
	SISO	2412	1	13.078	/	Pass	
802.11b		2437	1	13.084	/	Pass	
		2462	1	13.080	/	Pass	
	SISO	2412	1	18.155	/	Pass	
802.11g		2437	1	18.181	/	Pass	
		2462	1	18.201	/	Pass	
802.11n (HT20)	SISO		2412	1	18.874	/	Pass
		2437	1	18.888	/	Pass	
		2462	1	18.899	/	Pass	

2.1.2 6dB BW

Mode	TX	Frequency	ANT	6dB Bandw	Verdict			
iviode	Type	(MHz)	AINI	Result	Limit	verdict		
	SISO	2412	1	9.096	>=0.5	Pass		
802.11b		2437	1	9.151	>=0.5	Pass		
		2462	1	9.112	>=0.5	Pass		
	SISO	2412	1	16.384	>=0.5	Pass		
802.11g		2437	1	16.374	>=0.5	Pass		
		2462	1	16.406	>=0.5	Pass		
000.44	SISO	SISO		2412	1	17.582	>=0.5	Pass
802.11n (HT20)			2437	1	17.584	>=0.5	Pass	
			2462	1	17.607	>=0.5	Pass	



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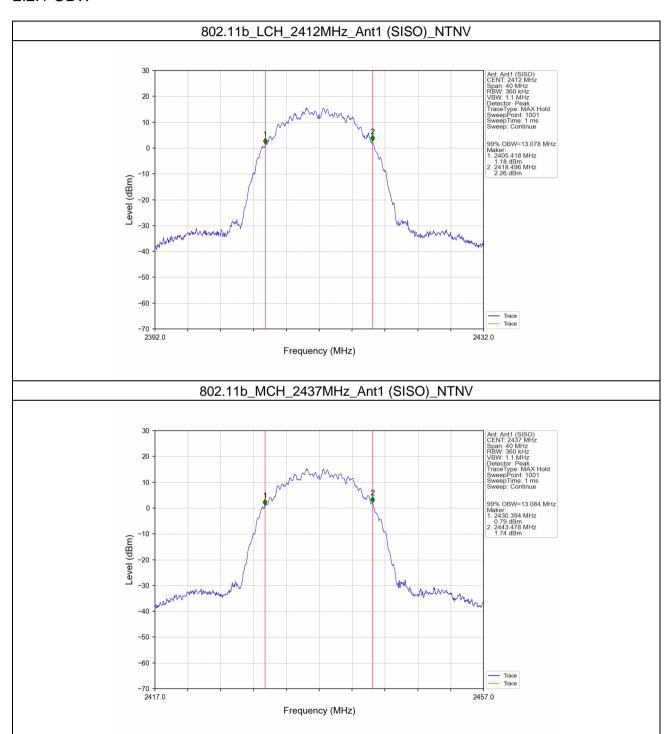
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2.2 Test Graph

2.2.1 OBW





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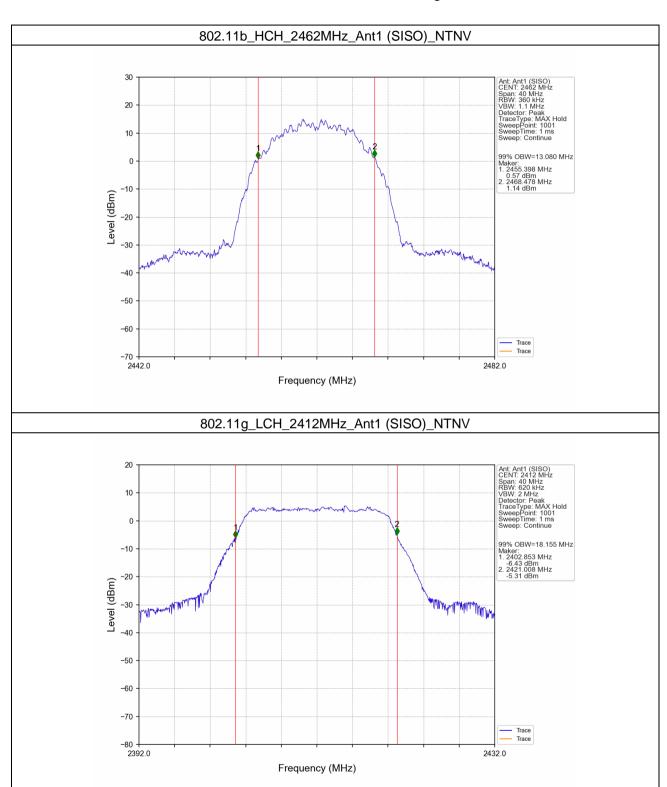
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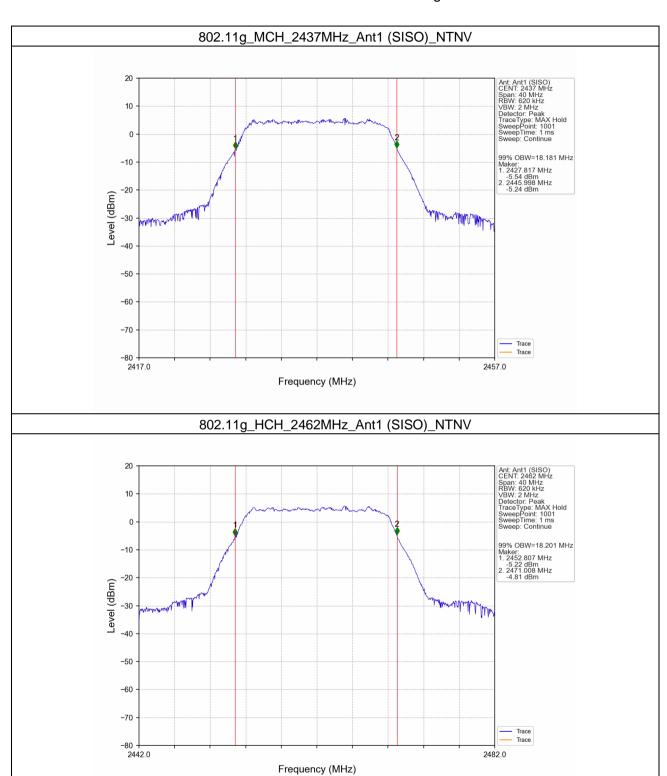
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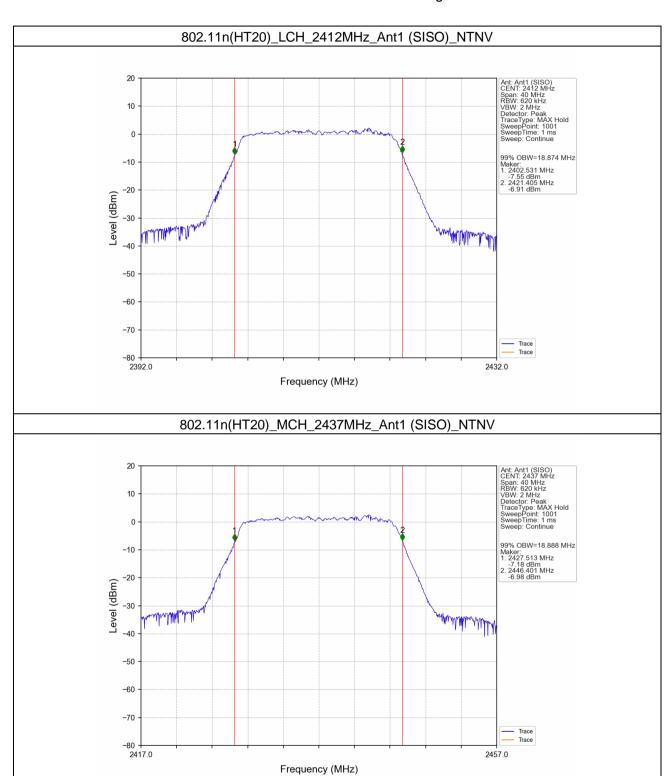
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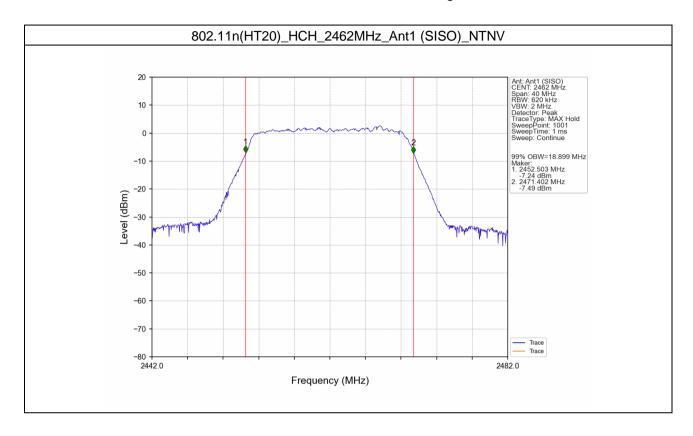
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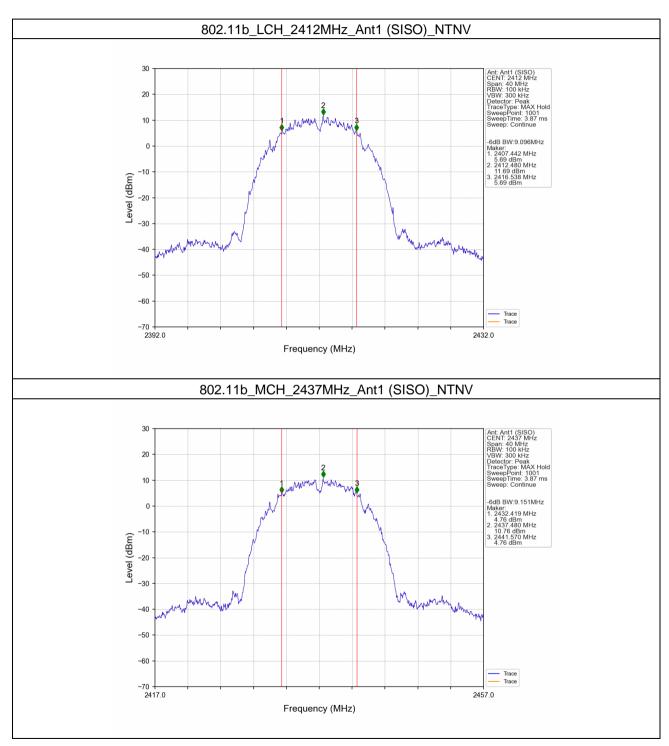


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2.2.2 6dB BW





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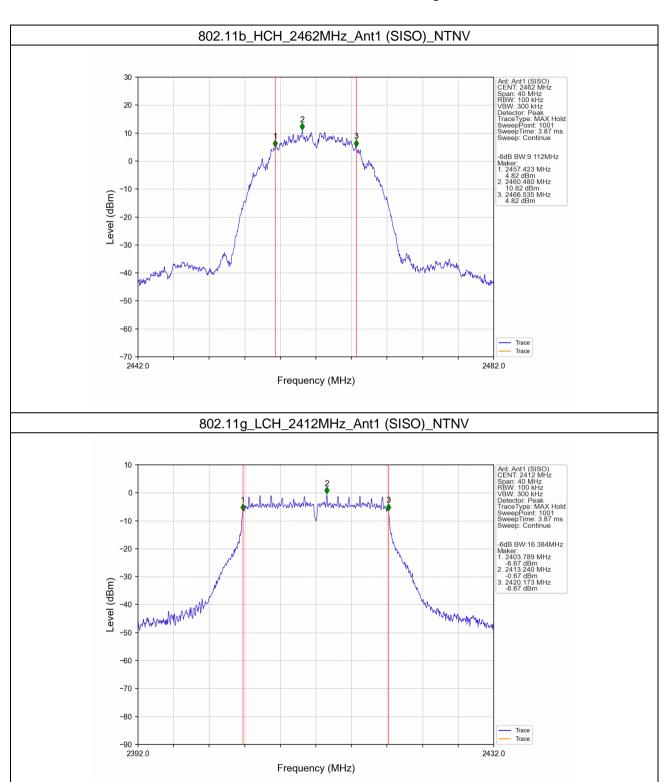
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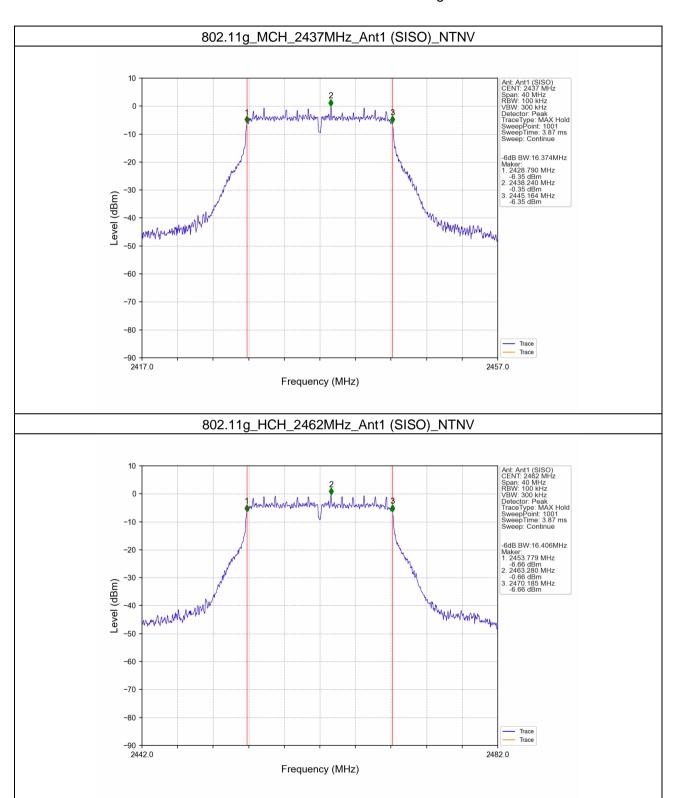
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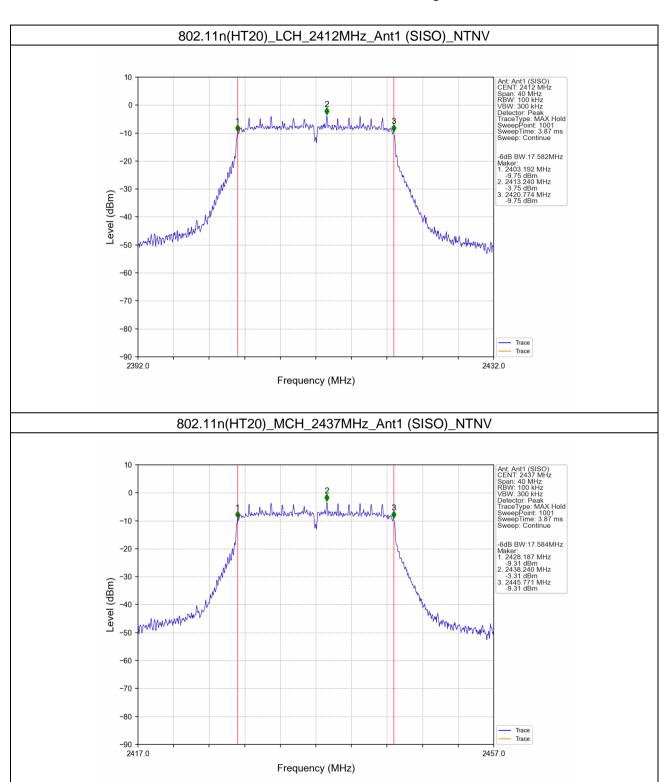
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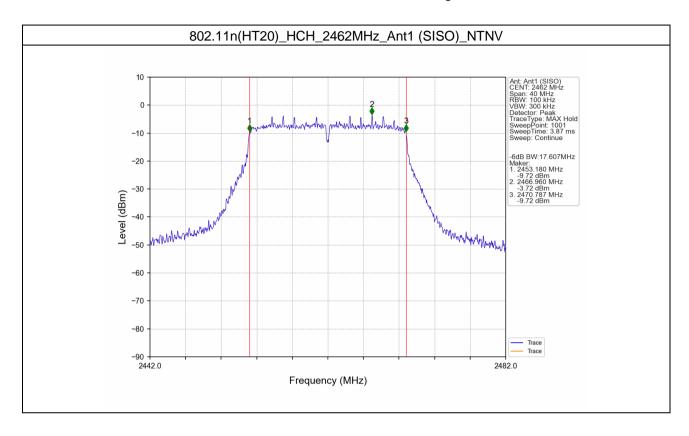
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX	Frequency	Maximum Average Co (dE	Verdict		
	Type	(MHz)	ANT1	Limit		
		2412	10.32	<=30	Pass	
802.11b	SISO	2437	10.69	<=30	Pass	
		2462	10.70	<=30	Pass	
	SISO	2412	9.33	<=30	Pass	
802.11g		2437	9.81	<=30	Pass	
		2462	9.30	<=30	Pass	
802.11n (HT20)	SISO	SISO	2412	9.23	<=30	Pass
			2437	9.67	<=30	Pass
		2462	9.28	<=30	Pass	



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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX	Frequency (MHz)	Maximum PS	Vardiat	
Mode	Type		ANT1	Limit	Verdict
		2412	-12.16	<=8	Pass
802.11b	SISO	2437	-11.83	<=8	Pass
		2462	-12.11	<=8	Pass
	SISO	2412	-16.09	<=8	Pass
802.11g		2437	-15.46	<=8	Pass
		2462	-15.72	<=8	Pass
802.11n (HT20)	SISO	2412	-15.40	<=8	Pass
		2437	-15.44	<=8	Pass
		2462	-15.97	<=8	Pass



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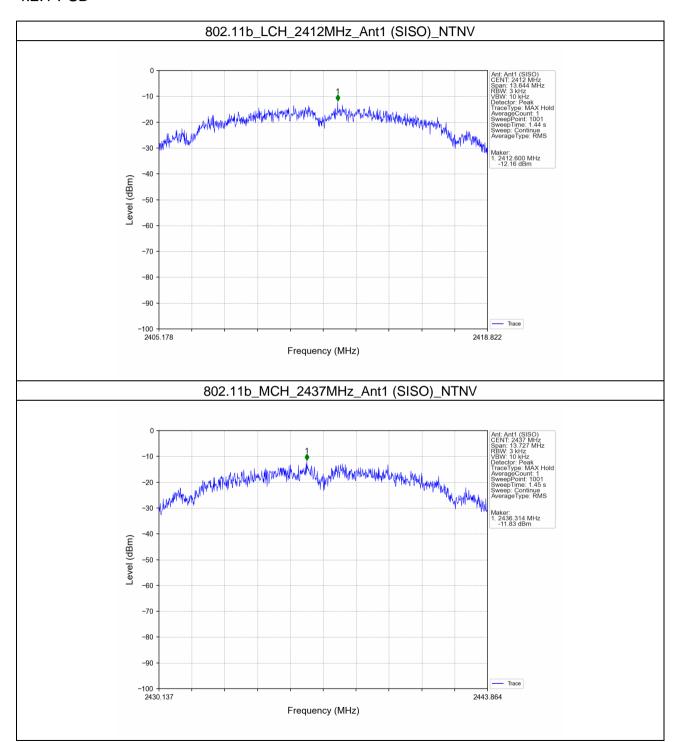
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4.2 Test Graph

4.2.1 PSD





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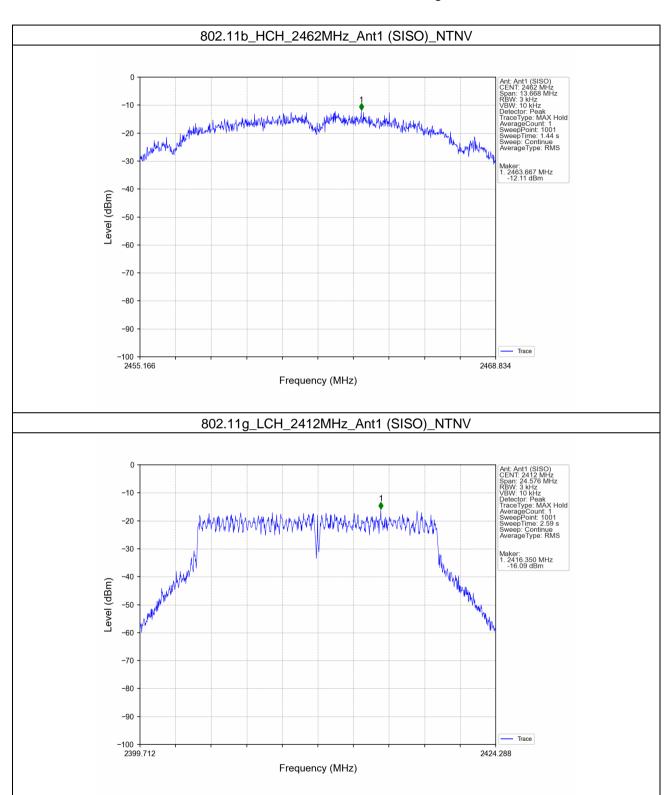
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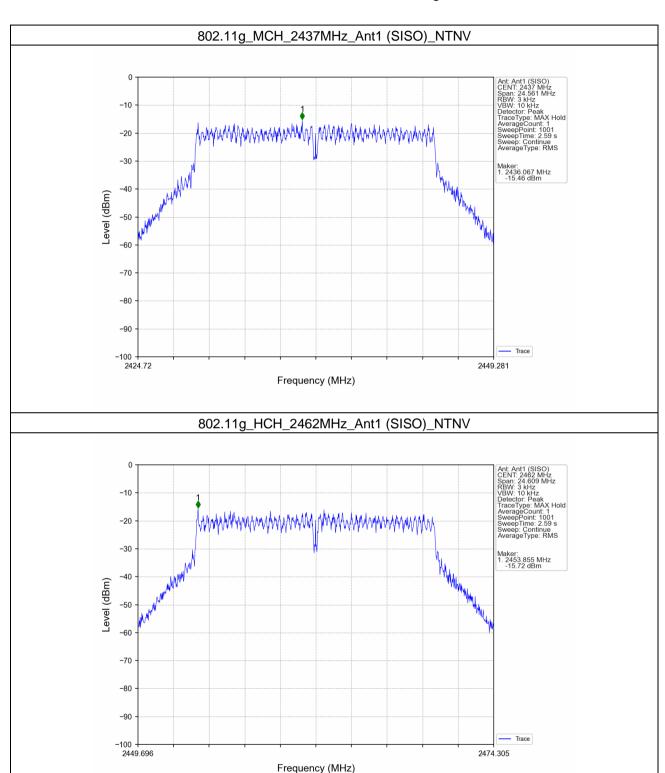
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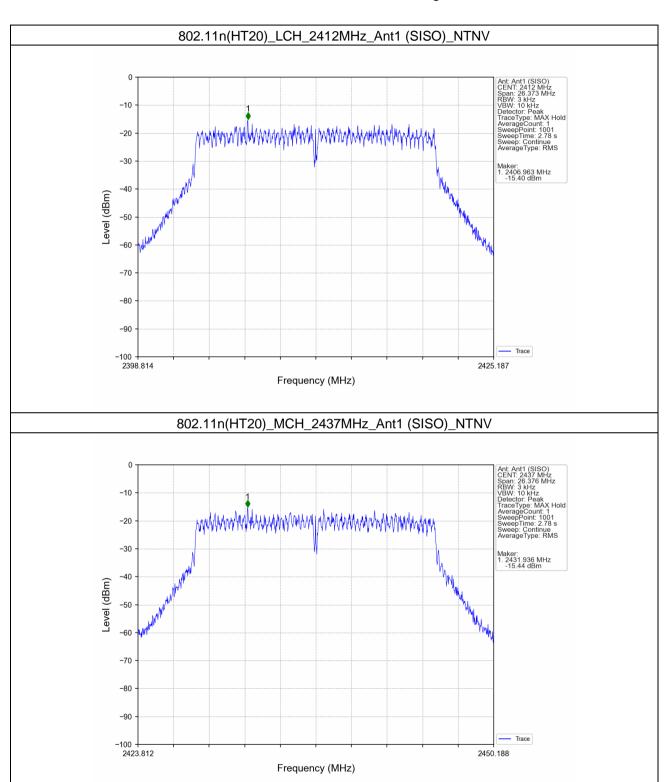
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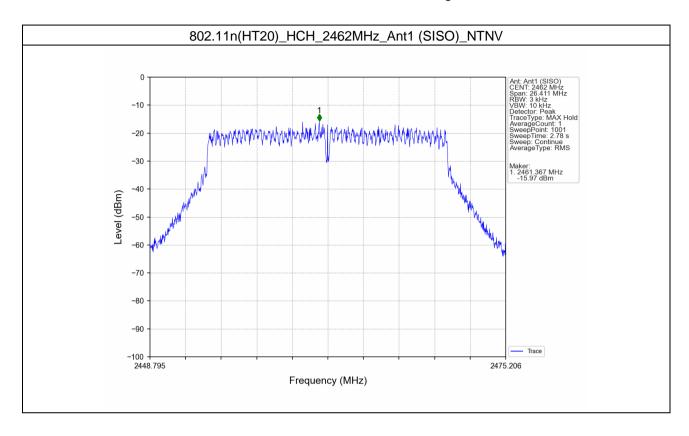
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2412	1	1.68
802.11b	SISO	2437	1	2.78
		2462	1	2.03
	SISO	2412	1	-2.50
802.11g		2437	1	-2.21
		2462	1	-2.27
802.11n (HT20)	SISO	2412	1	-2.37
		2437	1	-1.59
		2462	1	-2.34

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
	SISO	2412	1	2.78	-27.22	Pass
802.11b		2437	1	2.78	-27.22	Pass
		2462	1	2.78	-27.22	Pass
	SISO	2412	1	-2.21	-32.21	Pass
802.11g		2437	1	-2.21	-32.21	Pass
		2462	1	-2.21	-32.21	Pass
802.11n (HT20)	SISO	2412	1	-1.59	-31.59	Pass
		2437	1	-1.59	-31.59	Pass
		2462	1	-1.59	-31.59	Pass



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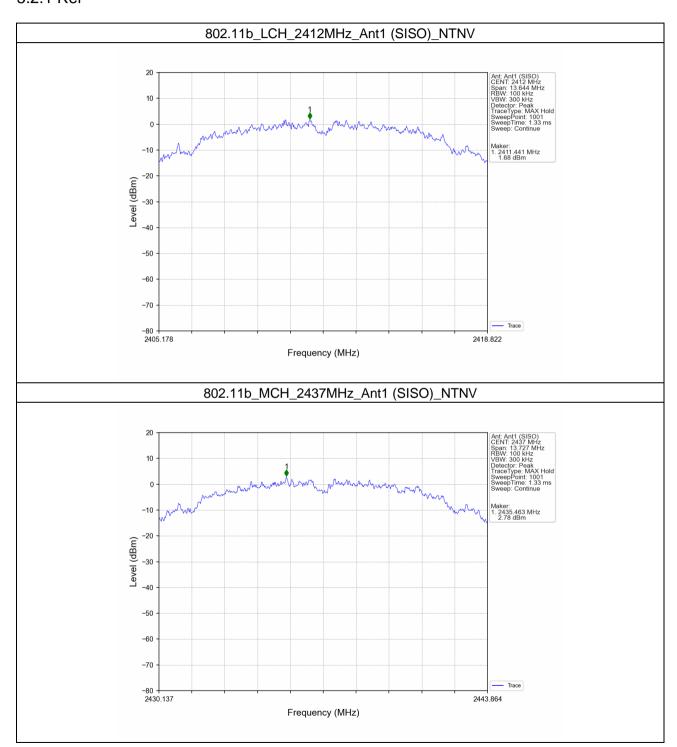
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5.2 Test Graph

5.2.1 Ref





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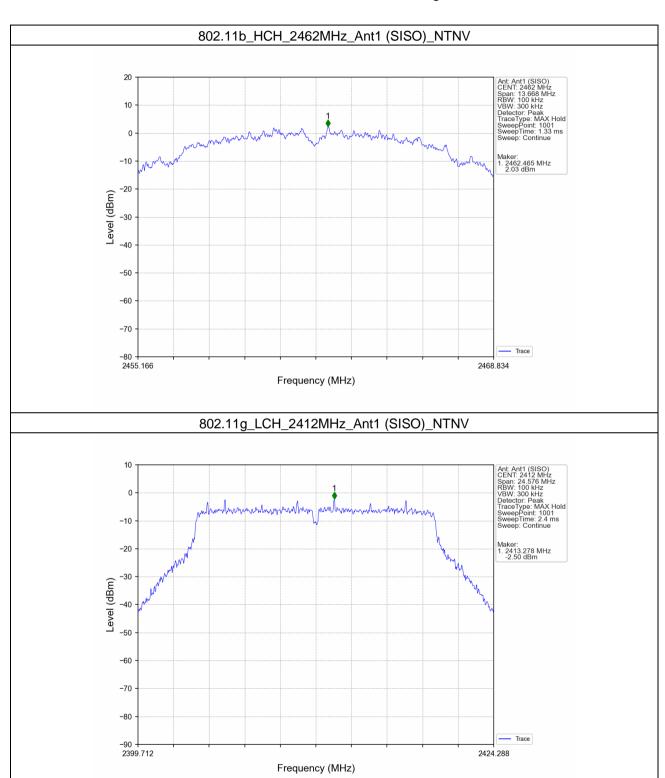
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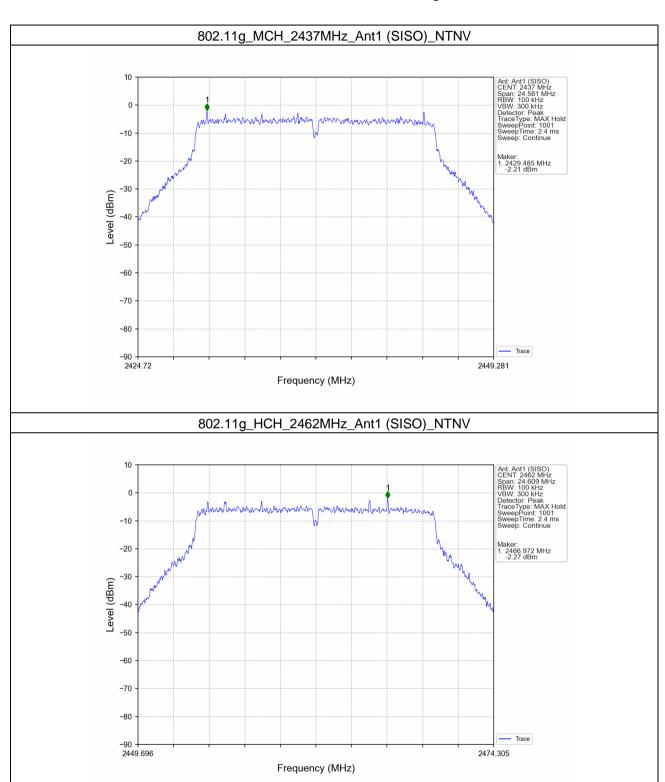
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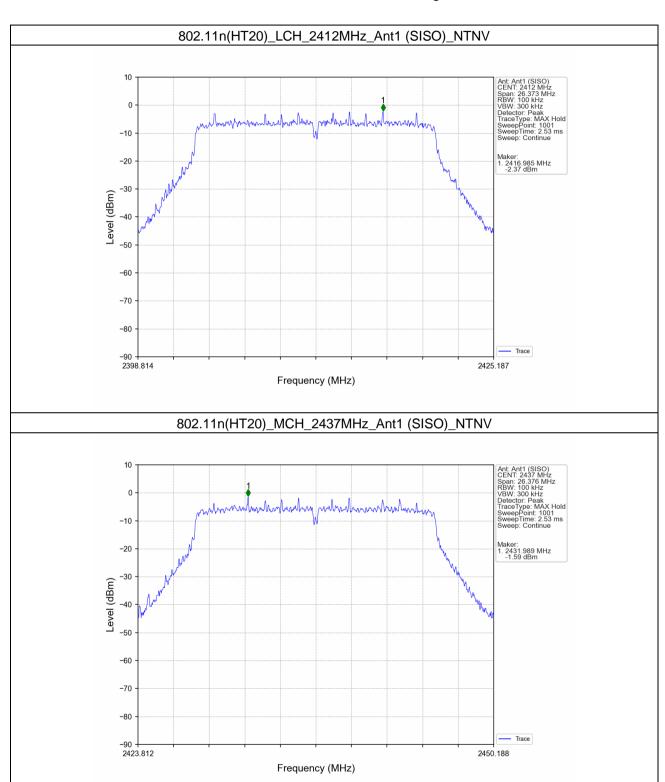
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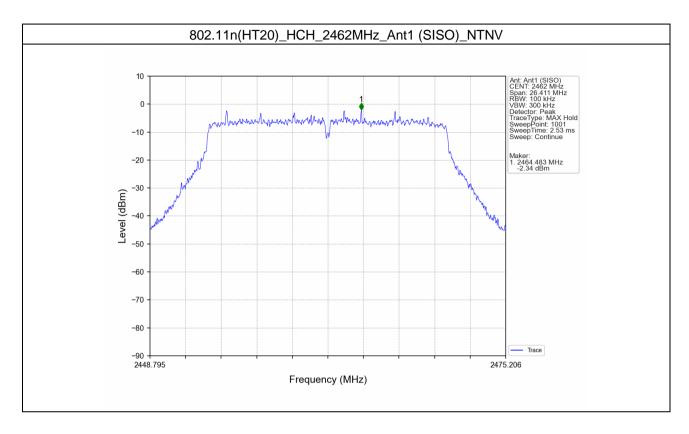
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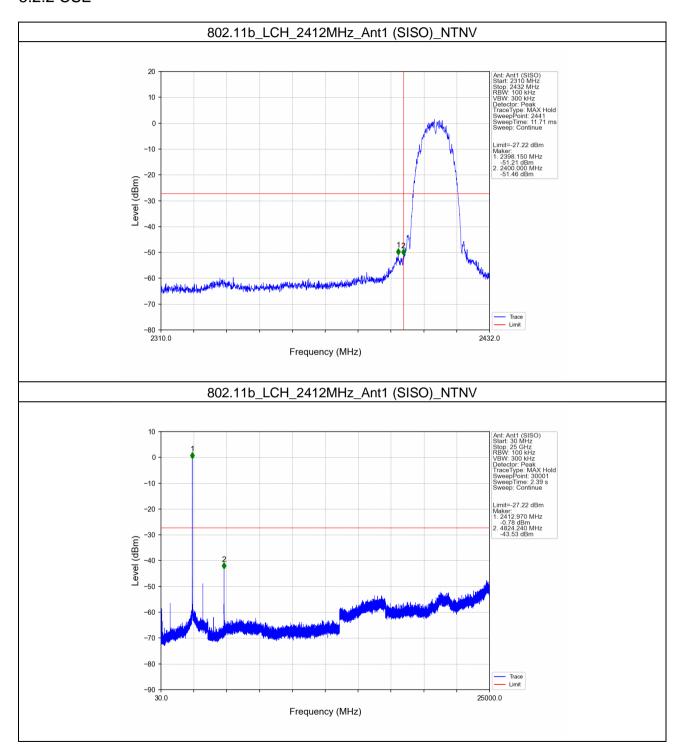


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5.2.2 CSF





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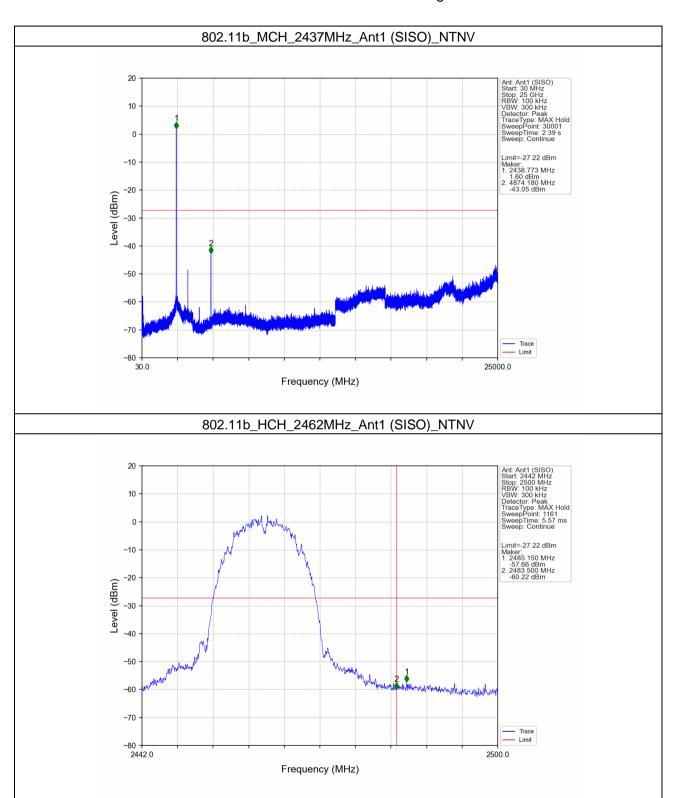
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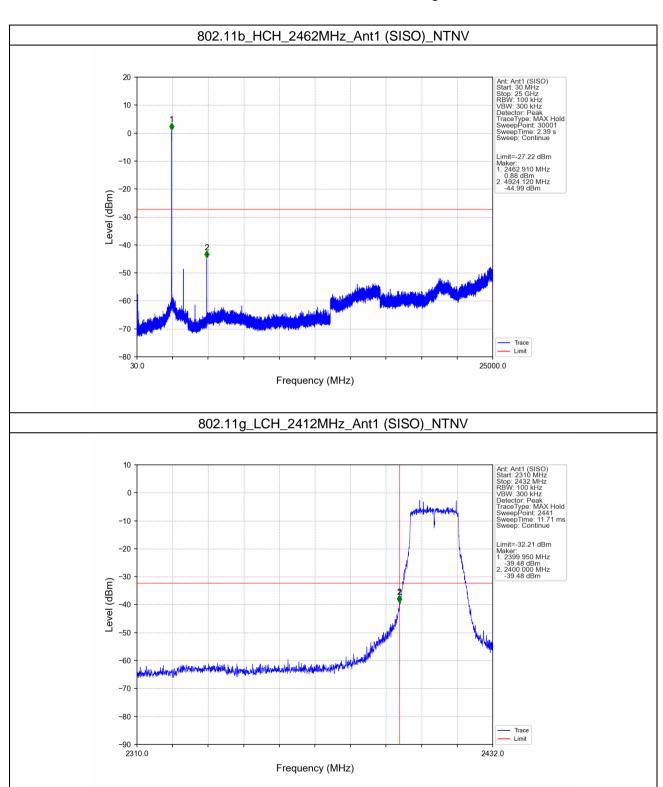
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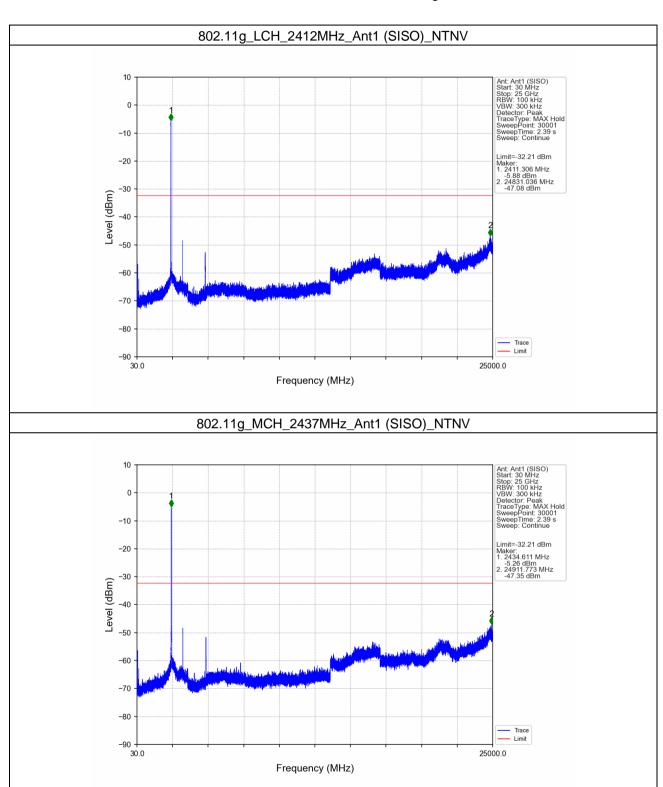
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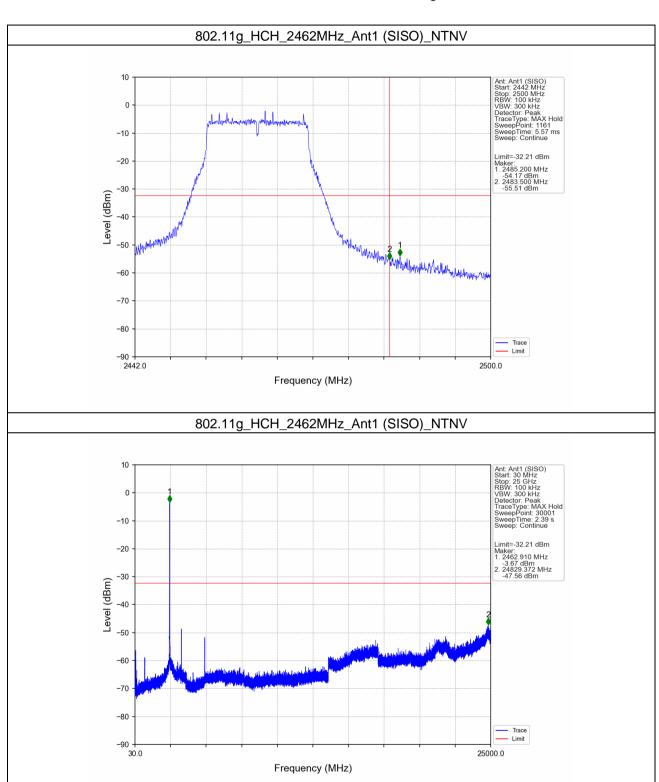
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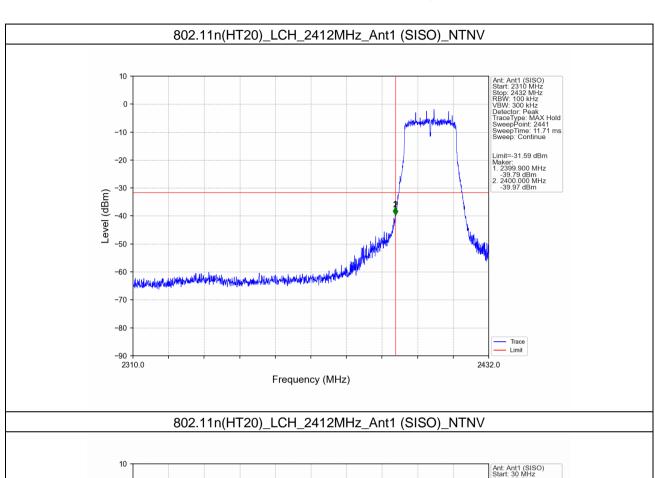
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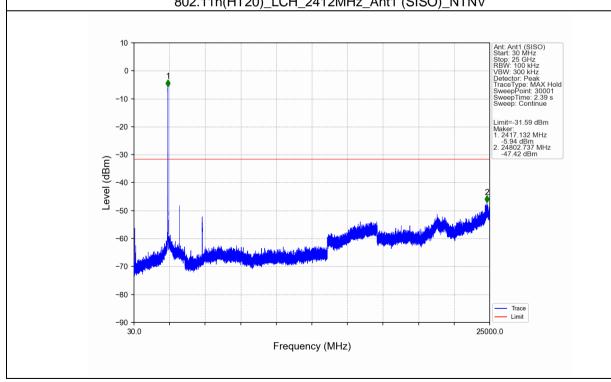


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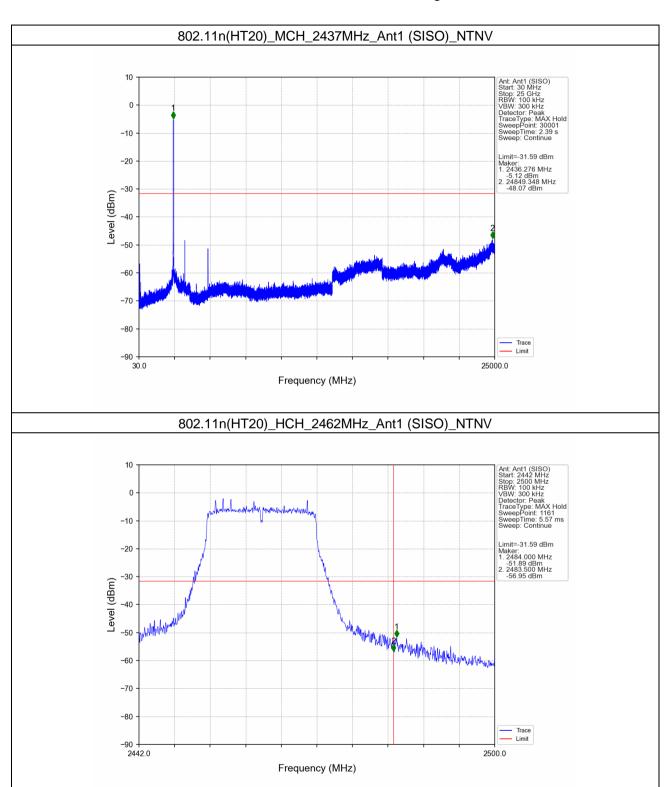
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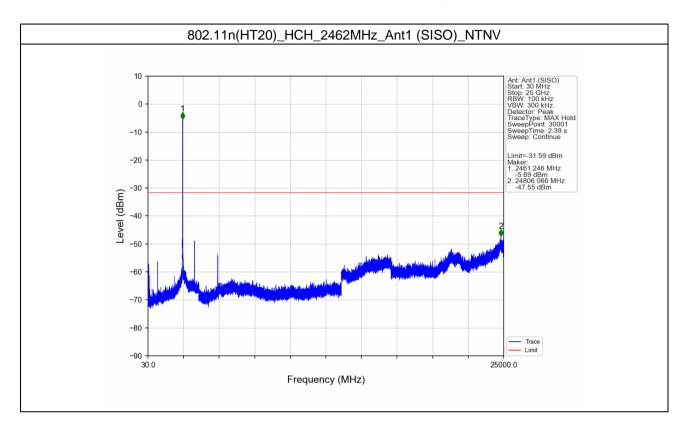
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