

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240800314202

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TEST REPORT

Application No.: SZCR2408003142AT **Applicant:** ZKTECO CO., LTD.

Address of Applicant: No.32, Pingshan Industrial Avenue, Tangxia Town, Dongguan City,

Guangdong Province, China 523728

ZKTECO CO., LTD. Manufacturer:

Address of Manufacturer: No.32, Pingshan Industrial Avenue, Tangxia Town, Dongguan City,

Guangdong Province, China 523728

Equipment Under Test (EUT):

EUT Name: Smart Terminal

Model No.: SenseFace 2A. ProCapture-X

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

FCC ID: 2AJ9T-21009

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

Date of Receipt:

2024-08-28 to 2024-09-19 Date of Test:

Date of Issue: 2024-09-23

Pass* Test Result:

Keny Xu **EMC Laboratory Manager**

Ceny. Ku



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



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	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2024-09-23		Original				

Authorized for issue by:			
	Edisonti		
	Edison Li/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 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		

Remark:

Model No.: SenseFace 2A, ProCapture-X

Only the model SenseFace 2A was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on model name.



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| Ne. | Michael Michael | Michael Michael | Micha



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General Information

Details of E.U.T. 4.1

Power supply:	Powered by DC 12V from external power supply
	Model: ADS-26FSG-12 12018EPCU
	Input: AC 100-240V, 50/60Hz, Max 0.7A
	Output: DC 12V, 1.5A
Cable(s):	DC Cable from adapter 1.5m unshielded with one core
Operation Fraguency	802.11b/g/n(HT20): 2412MHz to 2462MHz,
Operation Frequency:	802.11n(HT40): 2422MHz to 2452MHz
Madulation Tunes	802.11b: DSSS (CCK, DQPSK, DBPSK),
Modulation Type:	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n(HT20): 11,
Number of Channels.	802.11n(HT40):7
Antenna Type:	PIFA Antenna
Antenna Gain:	3.9dBi

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.
RF Cable	SGS	N/A(Cable Loss:0.6dB)	N/A



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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 Emissions (30MHz-1GHz)	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions (Above 1GHz)	± 4.6dB (1GHz-18GHz);± 4.8dB (18MHz-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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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	ESCI	SEM004-02	2024-03-14	2025-03-13	
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 Emissions (30MHz-1GHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
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	Radiated Spurious Emissions Above 1GHz									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date					
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10					
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14					
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22					
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13					
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05					
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

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 3.9dBi.

Antenna location: Refer to internal photo.



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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:

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

7.1.1 E.U.T. Operation

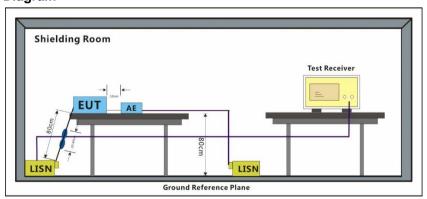
Operating Environment:

Temperature: 23.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1020 mbar

7.1.2 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 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 @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram





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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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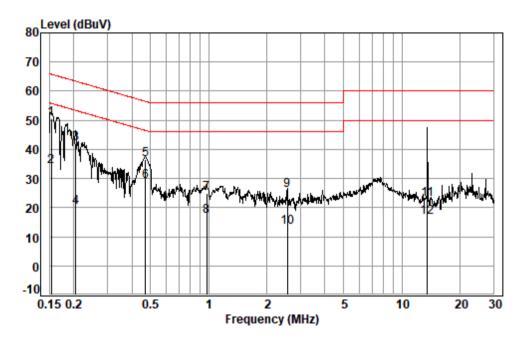


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Test Mode: 00: Line: Live line



: Shielding Room

Condition: Line Job No. : 03142AT

Test mode: 00

			Cable	LISN	Read		Limit	0ver	
		Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
		1112	u.	ab	ubu.	abar	aba*	45	
1	*	0.1532	0.06	9.88	40.53	50.47	65.82	-15.35	QP
2		0.1532	0.06	9.88	24.04	33.98	55.82	-21.84	Average
3		0.2050	0.06	9.93	32.13	42.12	63.40	-21.28	QP
4		0.2050	0.06	9.93	10.19	20.18	53.40	-33.22	Average
5		0.4711	0.08	10.00	26.44	36.52	56.49	-19.97	QP
6	*	0.4711	0.08	10.00	18.84	28.92	46.49	-17.57	Average
7		0.9787	0.09	10.04	14.87	25.00	56.00	-31.00	QP
8		0.9787	0.09	10.04	7.04	17.17	46.00	-28.83	Average
9		2.5535	0.11	10.02	15.65	25.78	56.00	-30.22	QP
10		2.5535	0.11	10.02	3.07	13.20	46.00	-32.80	Average
11		13.5509	0.24	10.23	12.31	22.78	60.00	-37.22	QP
12		13.5509	0.24	10.23	6.28	16.75	50.00	-33.25	Average



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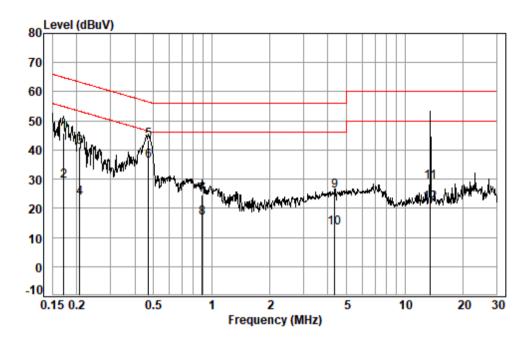


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Test Mode: 00: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 03142AT

Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1712	0.06	9.90	35.76	45.72	64.90	-19.18	QP
2	0.1712	0.06	9.90	19.54	29.50	54.90	-25.40	Average
3	0.2072	0.06	9.92	30.85	40.83	63.32	-22.49	QP
4	0.2072	0.06	9.92	13.56	23.54	53.32	-29.78	Average
5 *	0.4711	0.08	9.92	33.46	43.46	56.49	-13.03	QP
6 *	0.4711	0.08	9.92	26.17	36.17	46.49	-10.32	Average
7	0.8944	0.09	9.96	14.55	24.60	56.00	-31.40	QP
8	0.8944	0.09	9.96	6.50	16.55	46.00	-29.45	Average
9	4.3376	0.12	10.00	15.80	25.92	56.00	-30.08	QP
10	4.3376	0.12	10.00	3.04	13.16	46.00	-32.84	Average
11	13.5509	0.24	10.25	18.67	29.16	60.00	-30.84	QP
12	13.5509	0.24	10.25	11.43	21.92	50.00	-28.08	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: 22.3 °C Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar

7 2 2 Test Mode Description

Tiziz Took Mode Bookington								
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 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 @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.						



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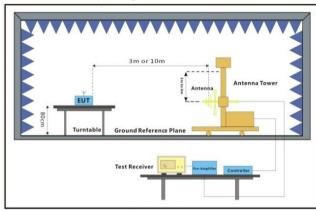


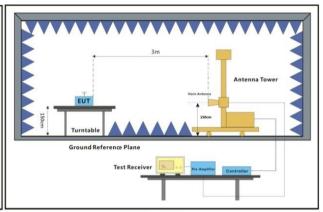
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7.2.3 Test Setup Diagram





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, guasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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



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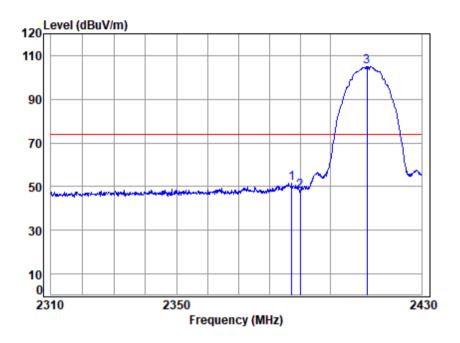


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT

Mode : 2412 Band edge : 2.4G WIFI 11B Note

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.31	5.07	29.10	37.44	55.06	51.79	74.00	-22.21	peak
2	2390.00	5.08	29.10	37.44	51.33	48.07	74.00	-25.93	peak
3	2412.00	5.10	29.05	37.38	108.18	104.95	74.00	30.95	peak



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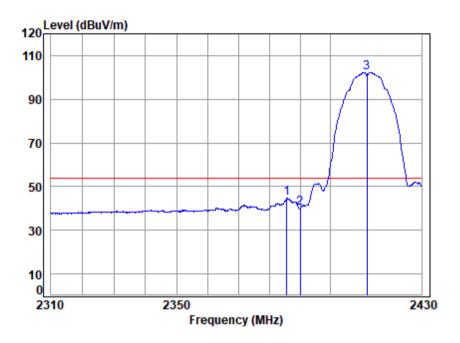


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT

Mode : 2412 Band edge : 2.4G WIFI 11B Note

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2385.74	5.07	29.10	37.45	47.85	44.57	54.00	-9.43	Average
2	2390.00	5.08	29.10	37.44	43.28	40.02	54.00	-13.98	Average
3	2412.00	5.10	29.05	37.38	105.54	102.31	54.00	48.31	Average



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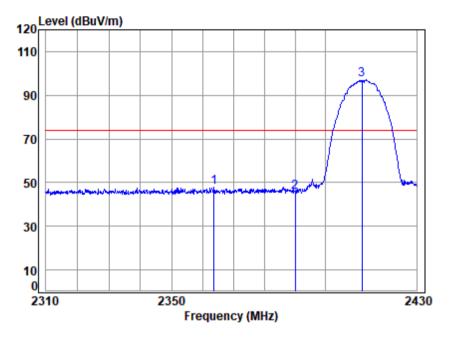


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL : 03142AT

Mode : 2412 Band edge : 2.4G WIFI 11B Note

	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2363.61	5.05	29.10	37.50	51.40	48.05	74.00	-25.95	Peak
2	2390.00	5.08	29.10	37.44	48.78	45.52	74.00	-28.48	Peak
3	2412.00	5.10	29.05	37.38	100.19	96.96	74.00	22.96	Peak



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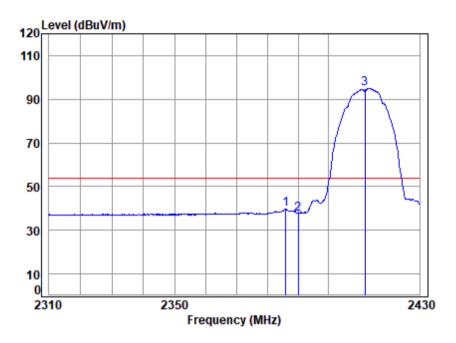


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL : 03142AT

Mode : 2412 Band edge : 2.4G WIFI 11B Note

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1	2385.98	5.07	29.10	37.44	42.96	39.69	54.00	-14.31	Average	
2	2390.00	5.08	29.10	37.44	40.86	37.60	54.00	-16.40	Average	
3	2412.00	5.10	29.05	37.38	98.30	95.07	54.00	41.07	Average	



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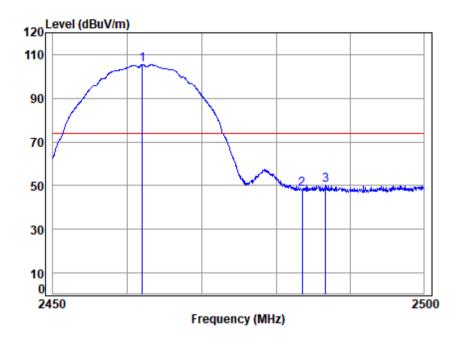


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT

Mode : 2462 Band edge : 2.4G WIFI 11B Note

0ver
Limit Remark
ı dB
31.37 peak
-25.78 peak
-23.75 peak
)



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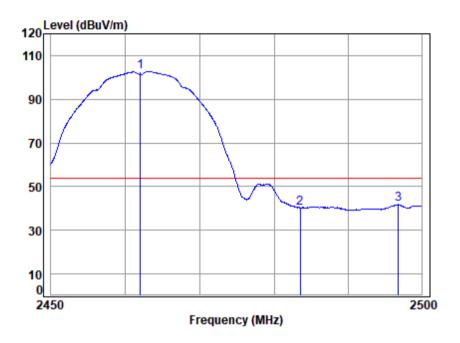


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Report No.: SZCR240800314202

Page: 24 of 129

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT

Mode : 2462 Band edge : 2.4G WIFI 11B Note

	Freq		Ant Factor						Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.00	5.14	28.90	37.27	105.90	102.67	54.00	48.67	Average
2	2483.50	5.16	28.90	37.22	43.46	40.30	54.00	-13.70	Average
3	2496.82	5.17	28.90	37.19	45.02	41.90	54.00	-12.10	Average



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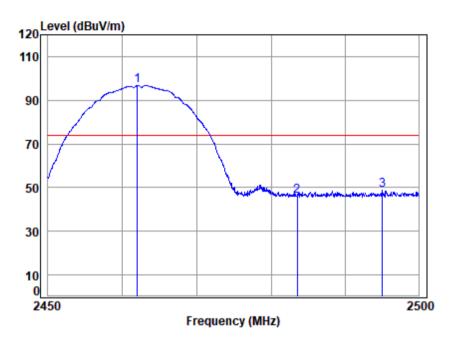


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 03142AT

Mode : 2462 Band edge : 2.4G WIFI 11B Note

	Freq				Read Level				Remark
•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.00	5.14	28.90	37.27	100.07	96.84	74.00	22.84	Peak
2	2483.50	5.16	28.90	37.22	49.14	45.98	74.00	-28.02	Peak
3	2495.11	5.17	28.90	37.19	51.82	48.70	74.00	-25.30	Peak



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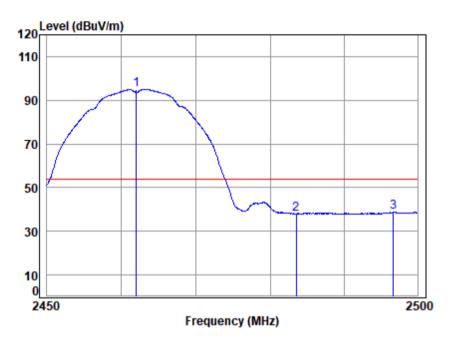


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL : 03142AT

Mode : 2462 Band edge : 2.4G WIFI 11B Note

	Freq			Preamp Factor					Remark
•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.00	5.14	28.90	37.27	98.33	95.10	54.00	41.10	Average
2	2483.50	5.16	28.90	37.22	41.22	38.06	54.00	-15.94	Average
3	2496.72	5.17	28.90	37.19	41.84	38.72	54.00	-15.28	Average



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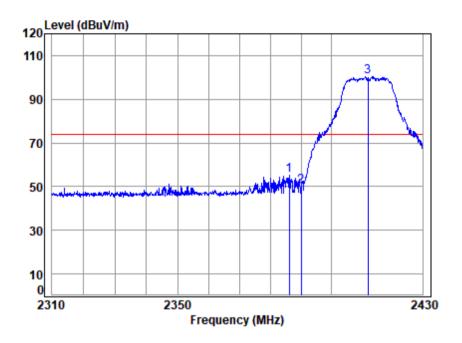


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Report No.: SZCR240800314202

Page: 27 of 129

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT

Mode : 2412 Band edge : 2.4G WIFI 11G Note

Ant Preamp Read Limit Over
ctor Factor Level Level Line Limit Remark
dB/m dB dBuV dBuV/m dBuV/m dB
9.10 37.44 58.46 55.19 74.00 -18.81 peak
9.10 37.44 53.34 50.08 74.00 -23.92 peak
9.05 37.38 103.54 100.31 74.00 26.31 peak
9.10 37.44 58.46 55.19 74.00 9.10 37.44 53.34 50.08 74.00



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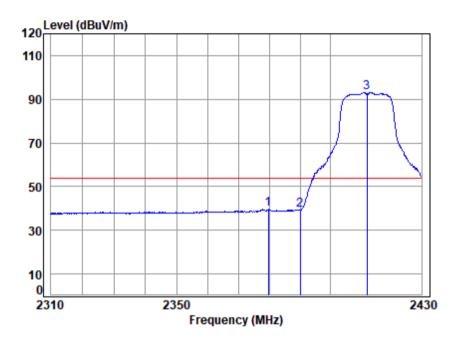


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT

Mode : 2412 Band edge : 2.4G WIFI 11G Note

	Freq			Preamp Factor					Remark	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2379.70	5.07	29.10	37.46	42.80	39.51	54.00	-14.49	Average	
2	2390.00	5.08	29.10	37.44	42.63	39.37	54.00	-14.63	Average	
3	2412.00	5.10	29.05	37.38	96.30	93.07	54.00	39.07	Average	



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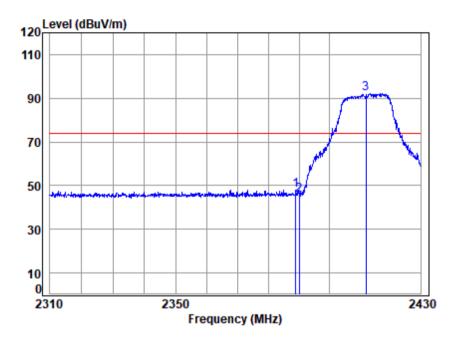


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL : 03142AT

Mode : 2412 Band edge : 2.4G WIFI 11G Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.88	5.07	29.10	37.44	51.39	48.12	74.00	-25.88	Peak
2	2390.00	5.08	29.10	37.44	48.69	45.43	74.00	-28.57	Peak
3	2412.00	5.10	29.05	37.38	95.31	92.08	74.00	18.08	Peak



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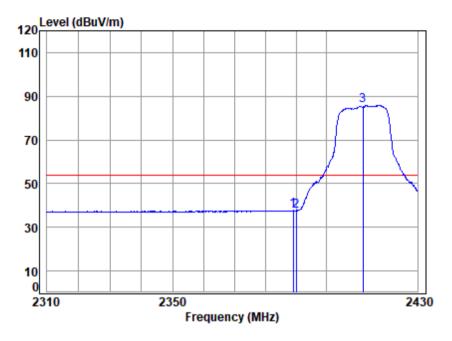


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL : 03142AT

Mode : 2412 Band edge : 2.4G WIFI 11G Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.12	5.07	29.10	37.44	41.01	37.74	54.00	-16.26	Average
2	2390.00	5.08	29.10	37.44	40.85	37.59	54.00	-16.41	Average
3	2412.00	5.10	29.05	37.38	88.99	85.76	54.00	31.76	Average



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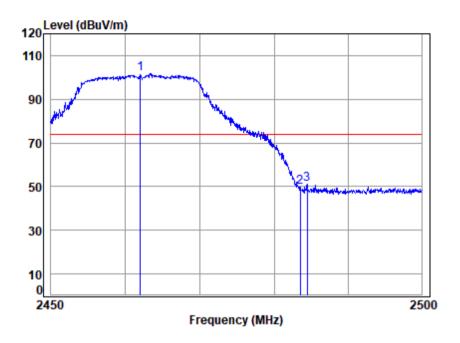


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03142AT

Mode : 2462 Band edge Note : 2.4G WTFT 11G

loce	. 2.40	MILI .	LIG							
		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	2462.00	5.14	28.90	37.27	104.91	101.68	74.00	27.68	peak	
2	2483.50	5.16	28.90	37.22	52.67	49.51	74.00	-24.49	peak	
3	2484.44								-	



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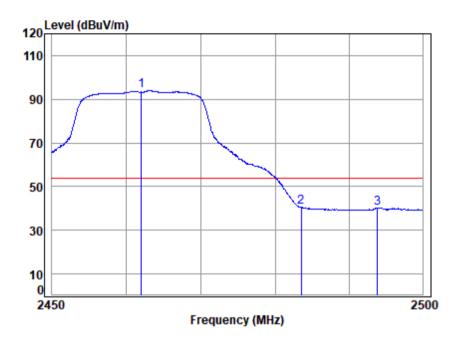


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT

Mode : 2462 Band edge : 2.4G WIFI 11G Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.00	5.14	28.90	37.27	97.07	93.84	54.00	39.84	Average
2	2483.50	5.16	28.90	37.22	43.57	40.41	54.00	-13.59	Average
3	2493.85	5.17	28.90	37.19	43.41	40.29	54.00	-13.71	Average



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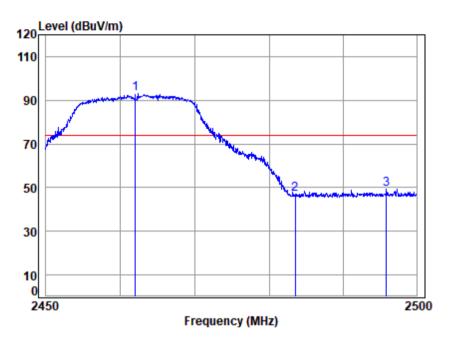


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL : 03142AT

Mode : 2462 Band edge : 2.4G WIFI 11G Note

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2462.00	5.14	28.90	37.27	96.22	92.99	74.00	18.99	Peak	
2	2483.50	5.16	28.90	37.22	50.20	47.04	74.00	-26.96	Peak	
3	2495.91	5.17	28.90	37.19	52.59	49.47	74.00	-24.53	Peak	



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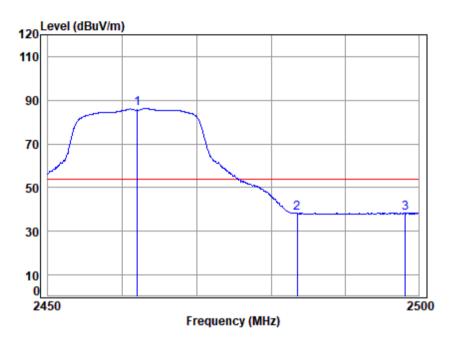


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL : 03142AT

Mode : 2462 Band edge : 2.4G WIFI 11G Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.00	5.14	28.90	37.27	89.49	86.26	54.00	32.26	Average
2	2483.50	5.16	28.90	37.22	41.33	38.17	54.00	-15.83	Average
3	2498.18	5.17	28.90	37.18	41.47	38.36	54.00	-15.64	Average



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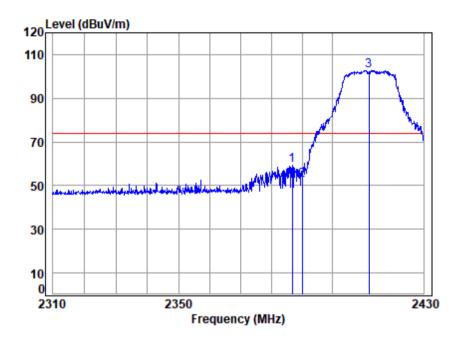


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT

Mode : 2412 Band edge : 2.4G WIFI 11N20 Note

	Freq					Level			Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2386.82	5.07	29.10	37.44	62.50	59.23	74.00	-14.77	peak
2	2390.00	5.08	29.10	37.44	55.58	52.32	74.00	-21.68	peak
3	2412.00	5.10	29.05	37.38	106.12	102.89	74.00	28.89	peak



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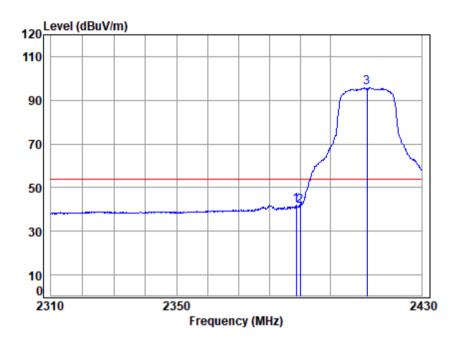


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT

Mode : 2412 Band edge : 2.4G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.76	5.07	29.10	37.44	45.22	41.95	54.00	-12.05	Average
2	2390.00	5.08	29.10	37.44	44.65	41.39	54.00	-12.61	Average
3	2412.00	5.10	29.05	37.38	98.91	95.68	54.00	41.68	Average



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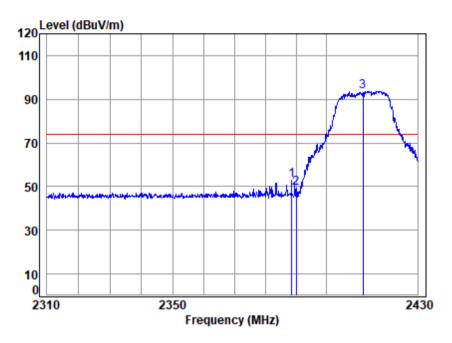


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 03142AT

Mode : 2412 Band edge : 2.4G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.52	5.07	29.10	37.44	56.18	52.91	74.00	-21.09	Peak
2	2390.00	5.08	29.10	37.44	52.64	49.38	74.00	-24.62	Peak
3	2412.00	5.10	29.05	37.38	96.90	93.67	74.00	19.67	Peak



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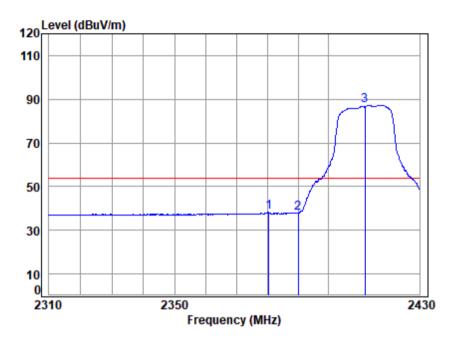


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL : 03142AT

Mode : 2412 Band edge : 2.4G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2380.55	5.07	29.10	37.46	41.44	38.15	54.00	-15.85	Average
2	2390.00	5.08	29.10	37.44	41.21	37.95	54.00	-16.05	Average
3	2412.00	5.10	29.05	37.38	90.51	87.28	54.00	33.28	Average



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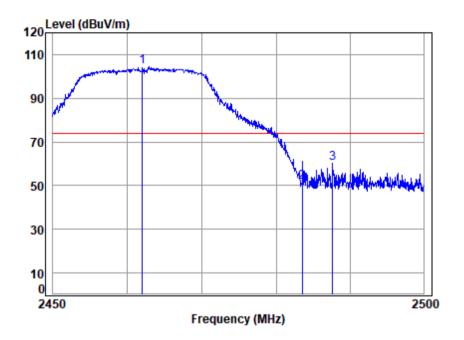


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT

Mode : 2462 Band edge : 2.4G WIFI 11N20 Note

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB	
1	2462.00	5.14	28.90	37.27	107.85	104.62	74.00	30.62	peak
2	2483.50	5.16	28.90	37.22	54.50	51.34	74.00	-22.66	peak
3	2487.66	5.16	28.90	37.21	63.44	60.29	74.00	-13.71	peak



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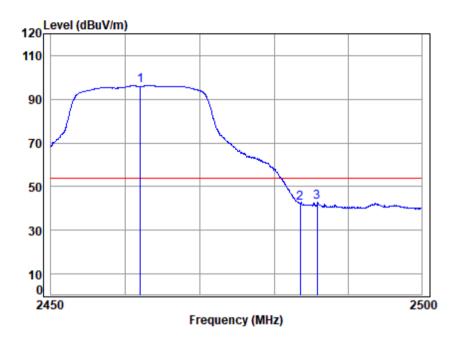


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT

Mode : 2462 Band edge : 2.4G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.00	5.14	28.90	37.27	99.65	96.42	54.00	42.42	Average
2	2483.50	5.16	28.90	37.22	45.39	42.23	54.00	-11.77	Average
3	2485.85	5.16	28.90	37.21	46.14	42.99	54.00	-11.01	Average



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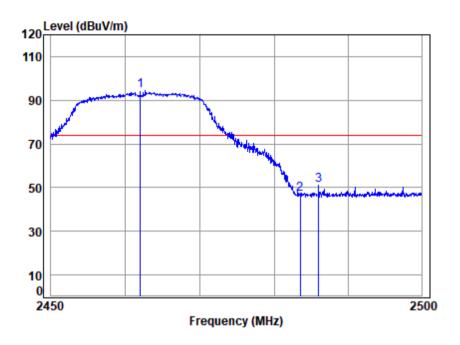


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL : 03142AT

Mode : 2462 Band edge : 2.4G WIFI 11N20 Note

Freq								Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
2462.00	5.14	28.90	37.27	97.57	94.34	74.00	20.34	Peak	
2483.50	5.16	28.90	37.22	49.98	46.82	74.00	-27.18	Peak	
2486.05	5.16	28.90	37.21	54.30	51.15	74.00	-22.85	Peak	
	MHz 2462.00 2483.50	Freq Loss MHz dB 2462.00 5.14 2483.50 5.16	Freq Loss Factor MHz dB dB/m 2462.00 5.14 28.90 2483.50 5.16 28.90	Freq Loss Factor Factor MHz dB dB/m dB 2462.00 5.14 28.90 37.27 2483.50 5.16 28.90 37.22	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 2462.00 5.14 28.90 37.27 97.57 2483.50 5.16 28.90 37.22 49.98	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 2462.00 5.14 28.90 37.27 97.57 94.34 2483.50 5.16 28.90 37.22 49.98 46.82	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dBuV/m 2462.00 5.14 28.90 37.27 97.57 94.34 74.00 2483.50 5.16 28.90 37.22 49.98 46.82 74.00	MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 2462.00 5.14 28.90 37.27 97.57 94.34 74.00 20.34 2483.50 5.16 28.90 37.22 49.98 46.82 74.00 -27.18	Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dB dBuV dBuV/m dBuV/m dB



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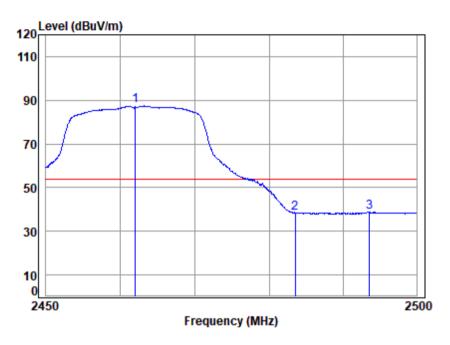


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 03142AT

Mode : 2462 Band edge : 2.4G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.00	5.14	28.90	37.27	90.63	87.40	54.00	33.40	Average
2	2483.50	5.16	28.90	37.22	41.53	38.37	54.00	-15.63	Average
3	2493.59	5.17	28.90	37.19	41.88	38.76	54.00	-15.24	Average



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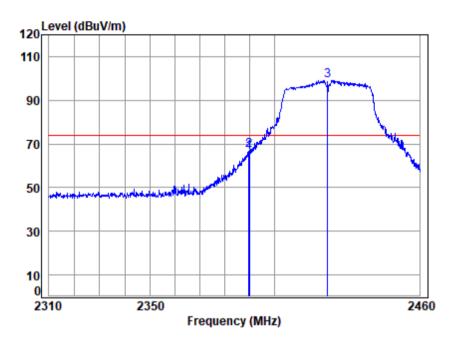


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT

Mode : 2422 Band edge : 2.4G WIFI 11N40 Note

	Freq						Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.83	5.08	29.10	37.44	69.51	66.25	74.00	-7.75	peak
2	2390.00	5.08	29.10	37.44	70.23	66.97	74.00	-7.03	peak
3	2422.00	5.10	29.01	37.36	102.41	99.16	74.00	25.16	peak



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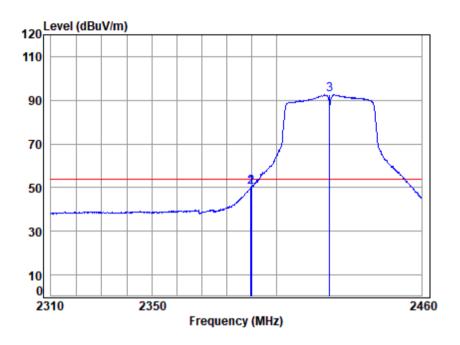


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT

Mode : 2422 Band edge : 2.4G WIFI 11N40 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.83	5.08	29.10	37.44	53.49	50.23	54.00	-3.77	Average
2	2390.00	5.08	29.10	37.44	53.64	50.38	54.00	-3.62	Average
3	2422.00	5.10	29.01	37.36	95.82	92.57	54.00	38.57	Average



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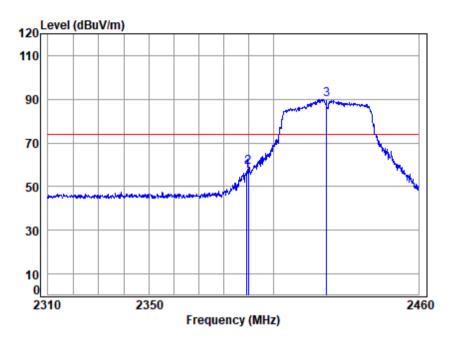


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL : 03142AT

Mode : 2422 Band edge : 2.4G WIFI 11N40 Note

	Freq			Preamp Factor					Remark	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.38	5.07	29.10	37.44	60.44	57.17	74.00	-16.83	Peak	
2	2390.00	5.08	29.10	37.44	62.07	58.81	74.00	-15.19	Peak	
3	2422.00	5.10	29.01	37.36	93.33	90.08	74.00	16.08	Peak	



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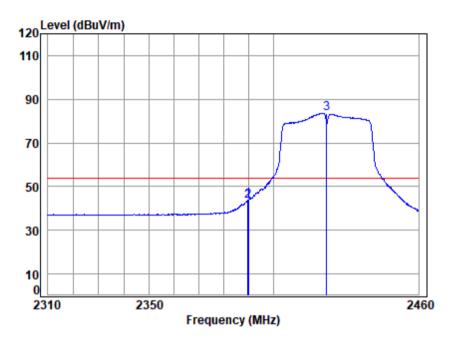


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL : 03142AT

Mode : 2422 Band edge : 2.4G WIFI 11N40 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.68	5.08	29.10	37.44	47.06	43.80	54.00	-10.20	Average
2	2390.00	5.08	29.10	37.44	46.49	43.23	54.00	-10.77	Average
3	2422.00	5.10	29.01	37.36	86.76	83.51	54.00	29.51	Average



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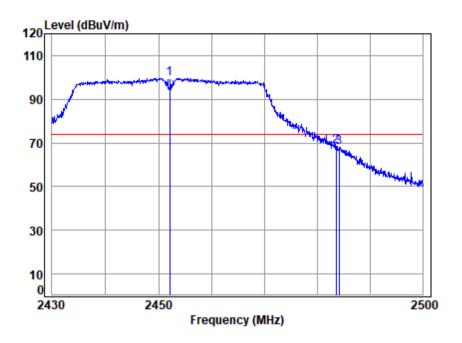


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT

Mode : 2452 Band edge : 2.4G WIFI 11N40 Note

	Enoa						Limit Line		Romank
_					Level	rever			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2452.00	5.13	28.90	37.29	102.89	99.63	74.00	25.63	peak
2	2483.50	5.16	28.90	37.22	71.72	68.56	74.00	-5.44	peak
3	2484.08	5.16	28.90	37.22	71.22	68.06	74.00	-5.94	peak



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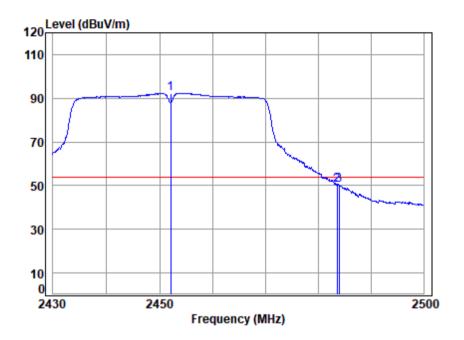


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT

Mode : 2452 Band edge : 2.4G WIFI 11N40 Note

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2452.00	5.13	28.90	37.29	95.63	92.37	54.00	38.37	Average
2	2483.50	5.16	28.90	37.22	53.28	50.12	54.00	-3.88	Average
3	2483.87	5.16	28.90	37.22	53.33	50.17	54.00	-3.83	Average



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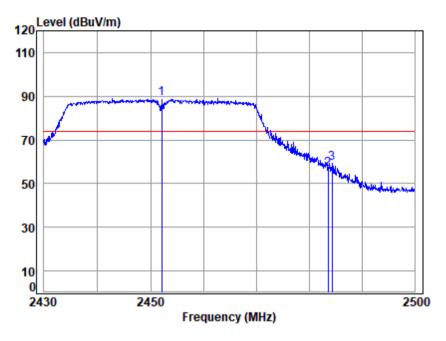


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 03142AT

Mode : 2452 Band edge : 2.4G WIFI 11N40 Note

	Freq			Preamp Factor					Remark	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2452.00	5.13	28.90	37.29	92.04	88.78	74.00	14.78	Peak	
2	2483.50	5.16	28.90	37.22	59.92	56.76	74.00	-17.24	Peak	
3	2484.29	5.16	28.90	37.21	62.55	59.40	74.00	-14.60	Peak	



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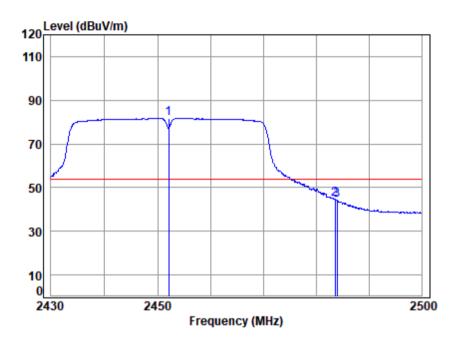


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 03142AT

Mode : 2452 Band edge : 2.4G WIFI 11N40 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2452.00	5.13	28.90	37.29	85.16	81.90	54.00	27.90	Average
2	2483.50	5.16	28.90	37.22	47.80	44.64	54.00	-9.36	Average
3	2483.87	5.16	28.90	37.22	47.43	44.27	54.00	-9.73	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: Atmospheric Pressure: 1020 mbar 23.6 °C Humidity: 51.9 % RH

7.3.2 Test Mode Description

1.5.2 1 CSt IV	iouc Dc.	scription
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 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 @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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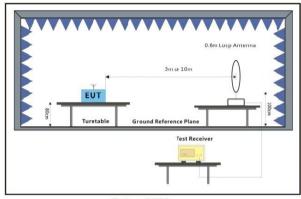


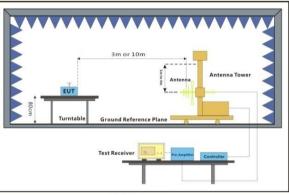
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7.3.3 Test Setup Diagram





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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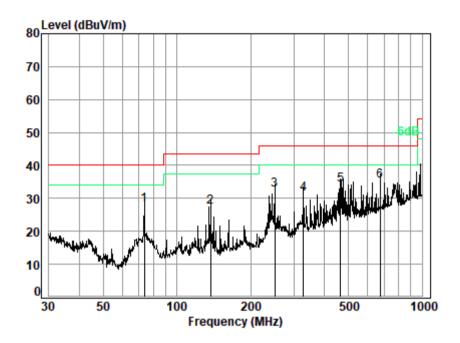


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Test Mode: 00; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT Job No.

Test Mode: 00

		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	73.62	10.41	1.02	27.67	44.12	27.88	40.00	-12.12	QP
2	137.42	11.59	1.39	27.43	41.95	27.50	43.50	-16.00	QP
3	250.30	17.24	1.95	26.96	40.22	32.45	46.00	-13.55	QP
4	327.89	18.66	2.28	26.86	37.36	31.44	46.00	-14.56	QP
5	465.60	21.82	2.77	27.42	36.85	34.02	46.00	-11.98	QP
6 q	675.21	25.71	3.44	27.79	33.98	35.34	46.00	-10.66	QP



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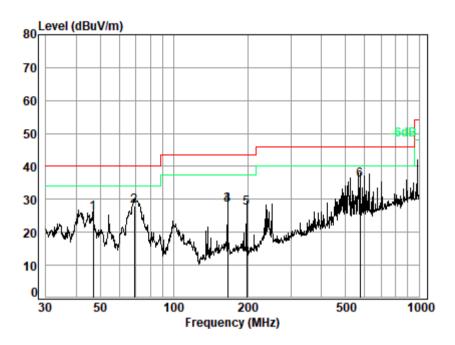


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Test Mode: 00; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL : 03142AT Job No.

Test Mode: 00

	Freq			Preamp Factor					Remark	
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		-
1	46.83	13.69	0.80	27.74	39.16	25.91	40.00	-14.09	QP	
2	68.87	10.67	0.98	27.68	44.11	28.08	40.00	-11.92	QP	
3	165.49	13.18	1.54	27.31	40.89	28.30	43.50	-15.20	QP	
4	165.49	13.18	1.54	27.31	40.89	28.30	43.50	-15.20	QP	
5	197.89	14.08	1.72	27.18	38.90	27.52	43.50	-15.98	QP	
6 a	574 63	23 80	3 13	27 87	36 99	36 05	46 99	-9 95	OP	



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7.4 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

Limit:

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

7.4.1 E.U.T. Operation

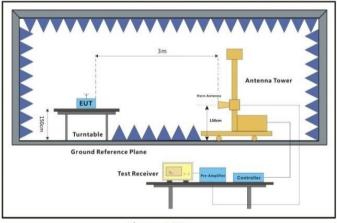
Operating Environment:

Humidity: 51.7 % RH Temperature: 20.4 °C Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

7.4.2 103010		· · · · · · · ·
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 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 @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



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.



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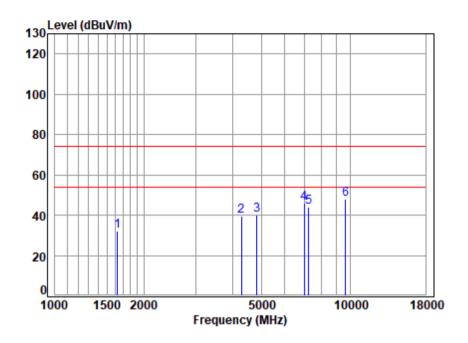


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT

Mode : 2412 TX RSE : 2.4G WIFI 11B Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1629.83	4.24	26.50	38.41	40.03	32.36	74.00	-41.64	peak
2	4291.98	6.99	33.97	35.88	34.54	39.62	74.00	-34.38	peak
3	4824.00	7.33	34.40	35.50	34.05	40.28	74.00	-33.72	peak
4	6974.98	8.90	35.75	35.55	36.63	45.73	74.00	-28.27	peak
5	7236.00	9.21	35.70	35.82	34.88	43.97	74.00	-30.03	peak
6	9648.00	12.39	37.50	37.45	35.73	48.17	74.00	-25.83	peak



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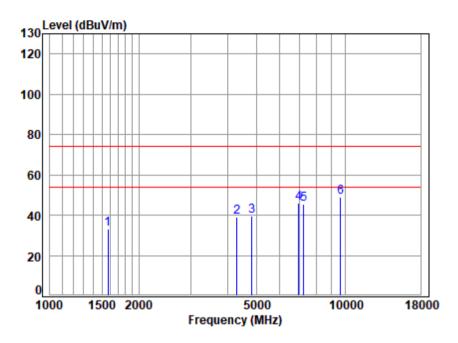


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL : 03142AT

Mode : 2412 TX RSE : 2.4G WIFI 11B Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1574.27	4.17	26.90	38.40	40.44	33.11	74.00	-40.89	peak
2	4304.40	6.99	34.04	35.87	33.70	38.86	74.00	-35.14	peak
3	4824.00	7.33	34.40	35.50	33.23	39.46	74.00	-34.54	peak
4	6954.85	8.89	35.79	35.54	36.74	45.88	74.00	-28.12	peak
5	7236.00	9.21	35.70	35.82	36.17	45.26	74.00	-28.74	peak
6	9648.00	12.39	37.50	37.45	36.53	48.97	74.00	-25.03	peak



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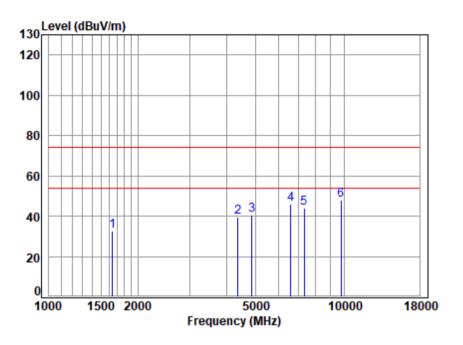


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT

Mode : 2437 TX RSE : 2.4G WIFI 11B Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1639.27	4.25	26.41	38.41	40.59	32.84	74.00	-41.16	peak
2	4367.06	7.04	34.54	35.82	33.98	39.74	74.00	-34.26	peak
3	4874.00	7.36	34.60	35.47	33.88	40.37	74.00	-33.63	peak
4	6602.27	8.64	35.30	35.32	37.56	46.18	74.00	-27.82	peak
5	7311.00	9.30	35.70	35.89	34.89	44.00	74.00	-30.00	peak
6	9748.00	12.46	37.40	37.43	35.52	47.95	74.00	-26.05	peak



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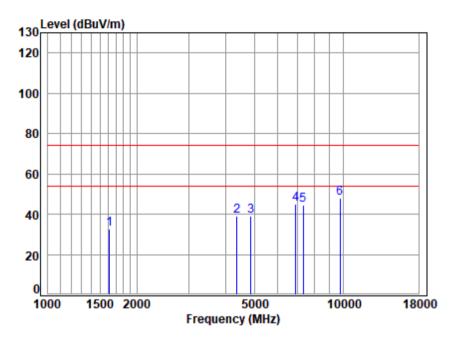


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL : 03142AT

Mode : 2437 TX RSE : 2.4G WIFI 11B Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1615.75	4.22	26.64	38.40	39.99	32.45	74.00	-41.55	peak
2	4367.06	7.04	34.54	35.82	33.17	38.93	74.00	-35.07	peak
3	4874.00	7.36	34.60	35.47	32.75	39.24	74.00	-34.76	peak
4	6914.76	8.86	35.66	35.52	36.00	45.00	74.00	-29.00	peak
5	7311.00	9.30	35.70	35.89	35.54	44.65	74.00	-29.35	peak
6	9748.00	12.46	37.40	37.43	35.48	47.91	74.00	-26.09	peak



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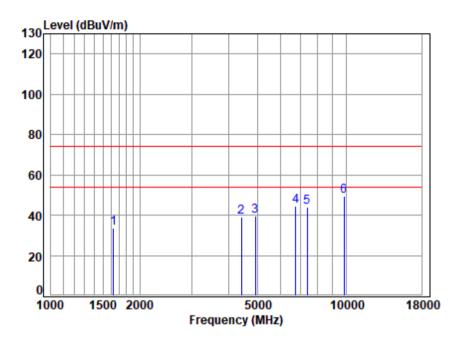


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT

Mode : 2462 TX RSE : 2.4G WIFI 11B Note

	Freq			Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1629.83	4.24	26.50	38.41	41.05	33.38	74.00	-40.62	peak
2	4417.84	7.07	34.59	35.78	33.06	38.94	74.00	-35.06	peak
3	4924.00	7.39	34.65	35.44	32.79	39.39	74.00	-34.61	peak
4	6756.71	8.75	35.21	35.42	36.17	44.71	74.00	-29.29	peak
5	7386.00								•
6	9848.00	12.53	37.20	37.40	37.25	49.58	74.00	-24.42	peak



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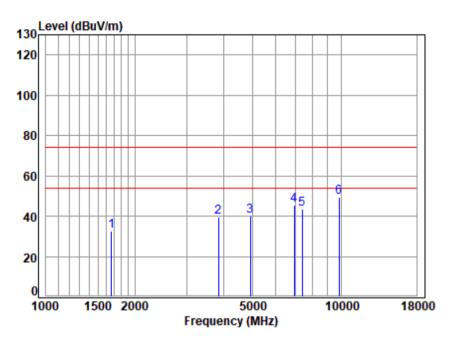


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL : 03142AT

Mode : 2462 TX RSE : 2.4G WIFI 11B Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq			Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1667.95	4.29	26.26	38.41	40.58	32.72	74.00	-41.28	peak
2	3845.54	6.62	33.04	36.11	35.91	39.46	74.00	-34.54	peak
3	4924.00	7.39	34.65	35.44	33.61	40.21	74.00	-33.79	peak
4	6934.78	8.87	35.74	35.53	36.52	45.60	74.00	-28.40	peak
5	7386.00	9.39	35.77	35.97	34.48	43.67	74.00	-30.33	peak
6	9848.00	12.53	37.20	37.40	37.30	49.63	74.00	-24.37	peak



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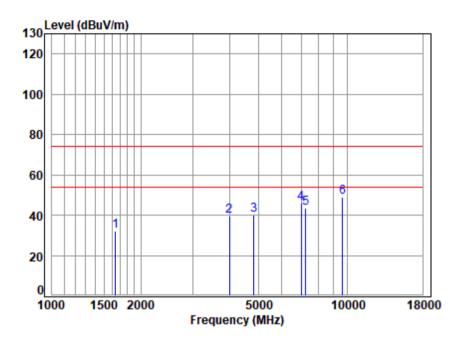


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT

Mode : 2412 TX RSE : 2.4G WIFI 11G Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1639.27	4.25	26.41	38.41	39.83	32.08	74.00	-41.92	peak
2	3992.78	6.77	33.07	36.10	35.64	39.38	74.00	-34.62	peak
3	4824.00	7.33	34.40	35.50	33.72	39.95	74.00	-34.05	peak
4	6995.17	8.92	35.71	35.57	36.67	45.73	74.00	-28.27	peak
5	7236.00	9.21	35.70	35.82	34.28	43.37	74.00	-30.63	peak
6	9648.00	12.39	37.50	37.45	36.26	48.70	74.00	-25.30	peak



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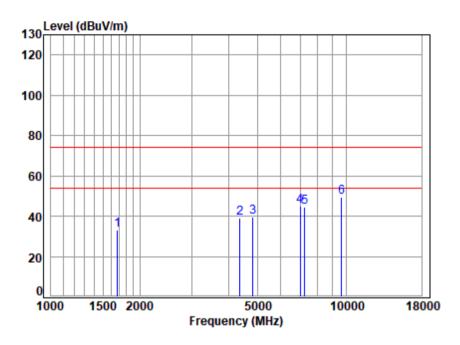


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL : 03142AT

Mode : 2412 TX RSE : 2.4G WIFI 11G Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.48	4.31	26.23	38.41	41.23	33.36	74.00	-40.64	peak
2	4367.06	7.04	34.54	35.82	33.51	39.27	74.00	-34.73	peak
3	4824.00	7.33	34.40	35.50	33.47	39.70	74.00	-34.30	peak
4	6974.98	8.90	35.75	35.55	35.89	44.99	74.00	-29.01	peak
5	7236.00	9.21	35.70	35.82	35.25	44.34	74.00	-29.66	peak
6	9648.00	12.39	37.50	37.45	36.89	49.33	74.00	-24.67	peak



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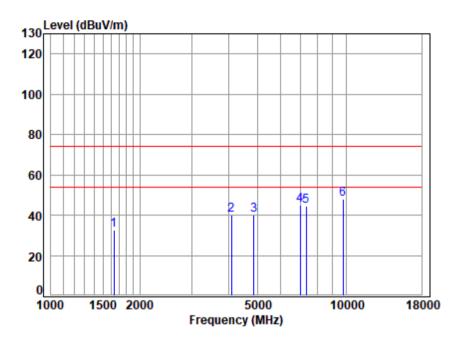


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT

Mode : 2437 TX RSE : 2.4G WIFI 11G Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1634.54	4.25	26.45	38.41	40.18	32.47	74.00	-41.53	peak
2	4086.18	6.84	32.86	36.03	36.40	40.07	74.00	-33.93	peak
3	4874.00	7.36	34.60	35.47	33.58	40.07	74.00	-33.93	peak
4	6974.98	8.90	35.75	35.55	35.72	44.82	74.00	-29.18	peak
5	7311.00	9.30	35.70	35.89	35.43	44.54	74.00	-29.46	peak
6	9748.00	12.46	37.40	37.43	35.53	47.96	74.00	-26.04	peak



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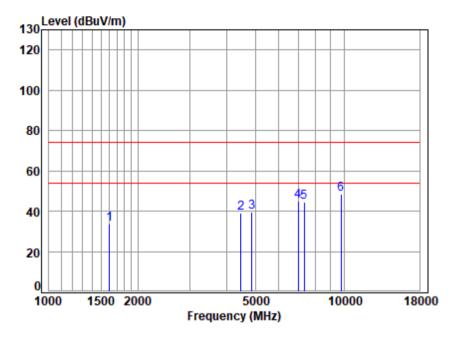


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Test Mode: 00; Polarity: Vertical; Modulation:802.11q; Bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL : 03142AT

Mode : 2437 TX RSE : 2.4G WIFI 11G Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1606.44	4.21	26.73	38.40	40.89	33.43	74.00	-40.57	peak
2	4469.21	7.10	33.97	35.75	33.58	38.90	74.00	-35.10	peak
3	4874.00	7.36	34.60	35.47	33.03	39.52	74.00	-34.48	peak
4	6995.17	8.92	35.71	35.57	35.98	45.04	74.00	-28.96	peak
5	7311.00	9.30	35.70	35.89	35.37	44.48	74.00	-29.52	peak
6	9748.00	12.46	37.40	37.43	36.03	48.46	74.00	-25.54	peak



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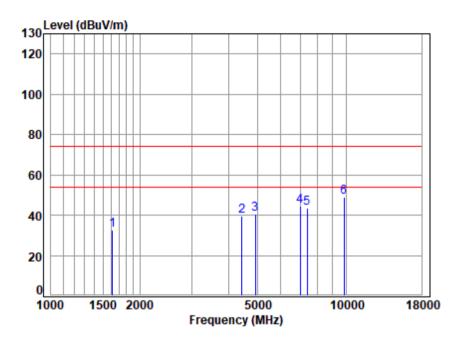


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT

Mode : 2462 TX RSE : 2.4G WIFI 11G Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1615.75	4.22	26.64	38.40	40.10	32.56	74.00	-41.44	peak
2	4430.63	7.08	34.43	35.77	33.68	39.42	74.00	-34.58	peak
3	4924.00	7.39	34.65	35.44	34.06	40.66	74.00	-33.34	peak
4	6995.17	8.92	35.71	35.57	35.57	44.63	74.00	-29.37	peak
5	7386.00	9.39	35.77	35.97	34.23	43.42	74.00	-30.58	peak
6	9848.00	12.53	37.20	37.40	36.69	49.02	74.00	-24.98	peak



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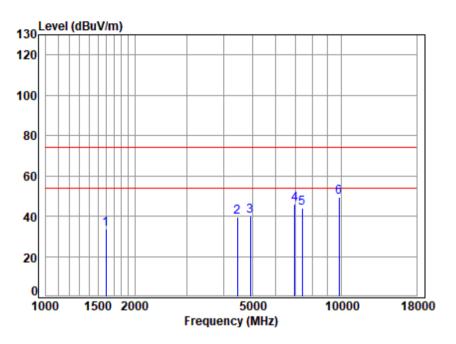


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL : 03142AT

Mode : 2462 TX RSE : 2.4G WIFI 11G Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.18	4.20	26.81	38.40	41.02	33.63	74.00	-40.37	peak
2	4456.32	7.09	34.12	35.76	34.16	39.61	74.00	-34.39	peak
3	4924.00	7.39	34.65	35.44	33.23	39.83	74.00	-34.17	peak
4	6954.85	8.89	35.79	35.54	36.93	46.07	74.00	-27.93	peak
5	7386.00	9.39	35.77	35.97	34.98	44.17	74.00	-29.83	peak
6	9848.00	12.53	37.20	37.40	37.34	49.67	74.00	-24.33	peak



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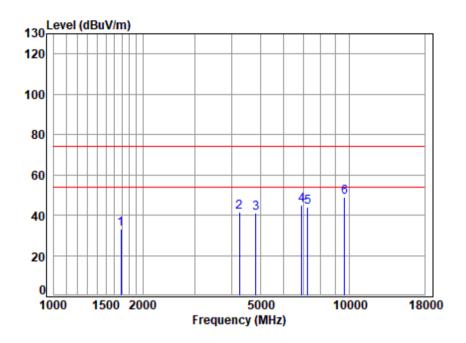


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT

Mode : 2412 TX RSE Note

: 2.4G WIFI 11N20

	Freq			Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1687.35	4.31	26.23	38.41	41.17	33.30	74.00	-40.70	peak
2	4254.92	6.96	33.82	35.90	36.42	41.30	74.00	-32.70	peak
3	4824.00	7.33	34.40	35.50	34.72	40.95	74.00	-33.05	peak
4	6914.76	8.86	35.66	35.52	36.14	45.14	74.00	-28.86	peak
5	7236.00	9.21	35.70	35.82	34.97	44.06	74.00	-29.94	peak
6	9648.00	12.39	37.50	37.45	36.30	48.74	74.00	-25.26	peak



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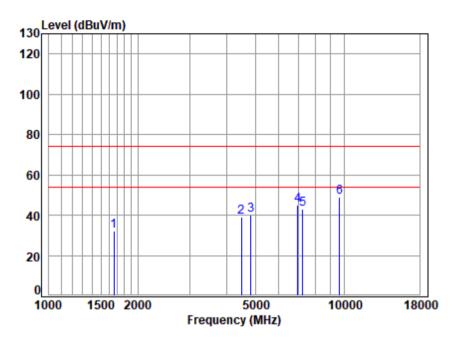


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 03142AT Mode : 2412 TX RSE

: 2.4G WIFI 11N20 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1663.14	4.28	26.27	38.41	40.14	32.28	74.00	-41.72	peak
2	4495.13	7.12	33.66	35.73	34.18	39.23	74.00	-34.77	peak
3	4824.00	7.33	34.40	35.50	33.77	40.00	74.00	-34.00	peak
4	6954.85	8.89	35.79	35.54	35.69	44.83	74.00	-29.17	peak
5	7236.00	9.21	35.70	35.82	34.06	43.15	74.00	-30.85	peak
6	9648.00	12.39	37.50	37.45	36.34	48.78	74.00	-25.22	peak



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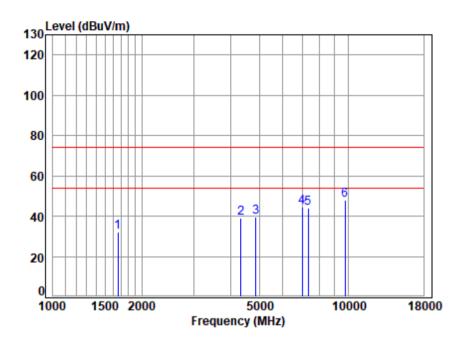


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT Mode : 2437 TX RSE

: 2.4G WIFI 11N20 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1663.14	4.28	26.27	38.41	39.92	32.06	74.00	-41.94	peak
2	4341.89	7.02	34.34	35.84	33.60	39.12	74.00	-34.88	peak
3	4874.00	7.36	34.60	35.47	32.92	39.41	74.00	-34.59	peak
4	6974.98	8.90	35.75	35.55	35.61	44.71	74.00	-29.29	peak
5	7311.00	9.30	35.70	35.89	34.66	43.77	74.00	-30.23	peak
6	9748.00	12.46	37.40	37.43	35.41	47.84	74.00	-26.16	peak



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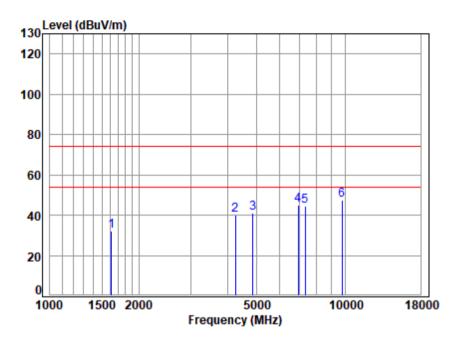


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL Job No : 03142AT

Mode : 2437 TX RSE : 2.4G WIFI 11N20 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	d Bu V/m	dBuV/m	dB	
1	1615.75	4.22	26.64	38.40	39.79	32.25	74.00	-41.75	peak
2	4254.92	6.96	33.82	35.90	35.08	39.96	74.00	-34.04	peak
3	4874.00	7.36	34.60	35.47	34.50	40.99	74.00	-33.01	peak
4	6934.78	8.87	35.74	35.53	35.87	44.95	74.00	-29.05	peak
5	7311.00	9.30	35.70	35.89	35.52	44.63	74.00	-29.37	peak
6	9748.00	12.46	37.40	37.43	35.08	47.51	74.00	-26.49	peak



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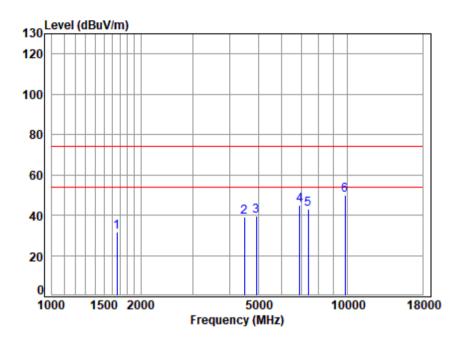


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT Mode : 2462 TX RSE

9848.00

: 2.4G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1658.34	4.28	26.28	38.41	39.63	31.78	74.00	-42.22	peak
2	4482.15	7.11	33.81	35.74	33.92	39.10	74.00	-34.90	peak
3	4924.00	7.39	34.65	35.44	32.81	39.41	74.00	-34.59	peak
4	6894.81	8.85	35.59	35.50	36.13	45.07	74.00	-28.93	peak
5	7386.00	9.39	35.77	35.97	33.95	43.14	74.00	-30.86	peak

12.53 37.20 37.40 37.62 49.95 74.00 -24.05 peak



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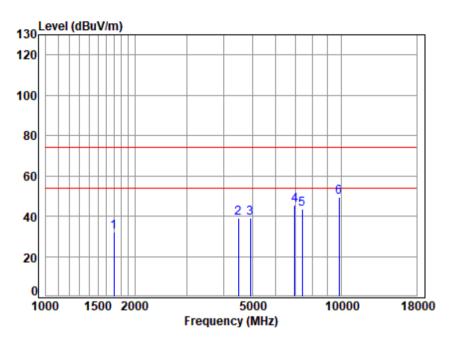


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 03142AT Mode : 2462 TX RSE

: 2.4G WIFI 11N20 Note

	Freq			Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.04	4.33	26.22	38.42	39.99	32.12	74.00	-41.88	peak
2	4495.13	7.12	33.66	35.73	34.09	39.14	74.00	-34.86	peak
3	4924.00	7.39	34.65	35.44	32.57	39.17	74.00	-34.83	peak
4	6954.85	8.89	35.79	35.54	36.51	45.65	74.00	-28.35	peak
5	7386.00	9.39	35.77	35.97	34.50	43.69	74.00	-30.31	peak
6	9848.00	12.53	37.20	37.40	36.90	49.23	74.00	-24.77	peak



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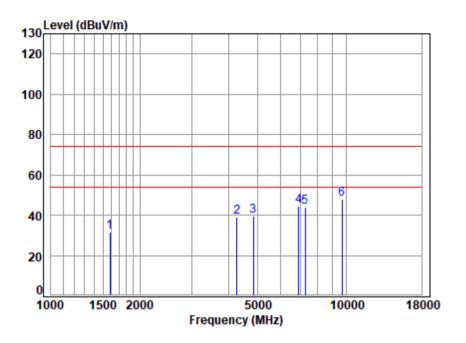


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT Mode : 2422 TX RSE

: 2.4G WIFI 11N40 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1587.98	4.18	26.85	38.40	38.93	31.56	74.00	-42.44	peak
2	4267.24	6.97	33.87	35.89	34.02	38.97	74.00	-35.03	peak
3	4844.00	7.34	34.48	35.49	33.15	39.48	74.00	-34.52	peak
4	6914.76	8.86	35.66	35.52	35.62	44.62	74.00	-29.38	peak
5	7266.00	9.25	35.70	35.85	34.97	44.07	74.00	-29.93	peak
6	9688.00	12.42	37.50	37.44	35.29	47.77	74.00	-26.23	peak



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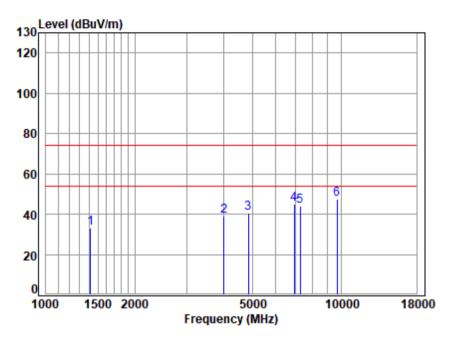


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Report No.: SZCR240800314202

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 03142AT Mode : 2422 TX RSE

: 2.4G WIFI 11N40 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1414.60	3.94	24.84	38.38	42.53	32.93	74.00	-41.07	peak
2	4015.93	6.79	32.84	36.09	35.64	39.18	74.00	-34.82	peak
3	4844.00	7.34	34.48	35.49	33.99	40.32	74.00	-33.68	peak
4	6934.78	8.87	35.74	35.53	36.00	45.08	74.00	-28.92	peak
5	7266.00	9.25	35.70	35.85	35.08	44.18	74.00	-29.82	peak
6	9688.00	12.42	37.50	37.44	35.18	47.66	74.00	-26.34	peak



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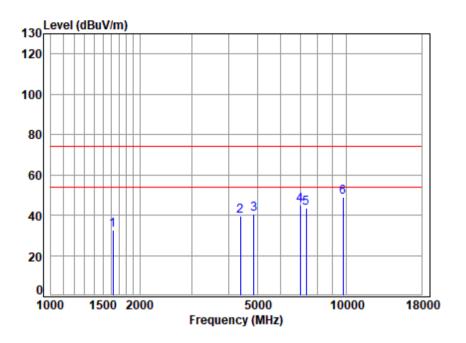


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT : 2437 TX RSE Mode

: 2.4G WIFI 11N40 Note

		Cable	Ant	Preamp	Kead		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	ав	aB/m	dB	aBuv	aBuv/m	aBuv/m	dB	
1	1620.43	4.23	26.59	38.40	40.22	32.64	74.00	-41.36	peak
2	4379.70	7.04	34.64	35.81	33.80	39.67	74.00	-34.33	peak
3	4874.00	7.36	34.60	35.47	34.20	40.69	74.00	-33.31	peak
4	6974.98	8.90	35.75	35.55	35.76	44.86	74.00	-29.14	peak
5	7311.00	9.30	35.70	35.89	34.62	43.73	74.00	-30.27	peak
6	9748.00	12.46	37.40	37.43	36.49	48.92	74.00	-25.08	peak



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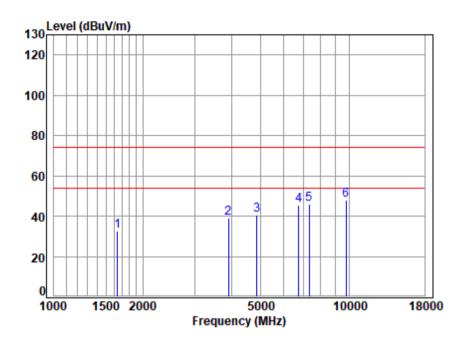


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL Job No : 03142AT Mode : 2437 TX RSE

: 2.4G WIFI 11N40 Note

	Freq			Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1639.27	4.25	26.41	38.41	40.21	32.46	74.00	-41.54	peak
2	3901.52	6.68	33.79	36.10	34.47	38.84	74.00	-35.16	peak
3	4874.00	7.36	34.60	35.47	34.12	40.61	74.00	-33.39	peak
4	6737.21	8.73	35.20	35.40	36.89	45.42	74.00	-28.58	peak
5	7311.00	9.30	35.70	35.89	36.74	45.85	74.00	-28.15	peak
6	9748.00	12.46	37.40	37.43	35.54	47.97	74.00	-26.03	peak



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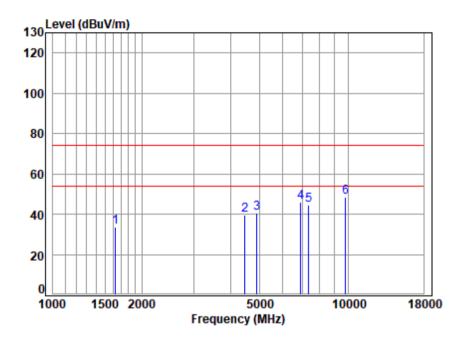


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 03142AT Mode : 2452 TX RSE

: 2.4G WIFI 11N40 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1629.83	4.24	26.50	38.41	41.10	33.43	74.00	-40.57	peak
2	4469.21	7.10	33.97	35.75	34.24	39.56	74.00	-34.44	peak
3	4904.00	7.37	34.69	35.45	33.69	40.30	74.00	-33.70	peak
4	6894.81	8.85	35.59	35.50	37.02	45.96	74.00	-28.04	peak
5	7356.00	9.36	35.71	35.94	35.39	44.52	74.00	-29.48	peak
6	9808.00	12.50	37.28	37.41	35.91	48.28	74.00	-25.72	peak



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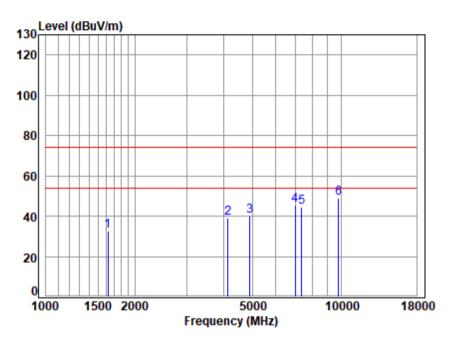


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL : 03142AT Mode : 2452 TX RSE

: 2.4G WIFI 11N40 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
							7		
1	1620.43	4.23	26.59	38.40	40.22	32.64	74.00	-41.36	peak
2	4133.70	6.88	33.54	36.00	34.62	39.04	74.00	-34.96	peak
3	4904.00	7.37	34.69	35.45	33.62	40.23	74.00	-33.77	peak
4	6995.17	8.92	35.71	35.57	36.18	45.24	74.00	-28.76	peak
5	7356.00	9.36	35.71	35.94	35.48	44.61	74.00	-29.39	peak
6	9808.00	12.50	37.28	37.41	36.38	48.75	74.00	-25.25	peak



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7.5 Conducted Peak Output Power

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

I imit:

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

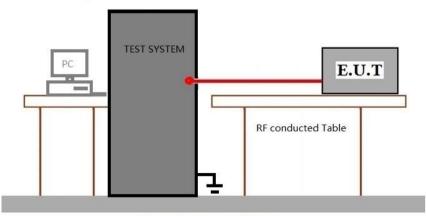
Operating Environment:

Temperature: 24.6 °C Humidity: 38.9 % RH Atmospheric Pressure: 1020 mbar

7.5.2 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 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 @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



Ground Reference Plane



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7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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

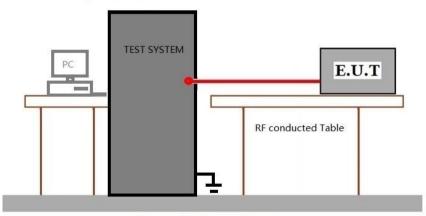
Operating Environment:

Temperature: 24.6 °C Humidity: 38.9 % RH Atmospheric Pressure: 1020 mbar

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 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 @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. 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

I imit:

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

7.7.1 E.U.T. Operation

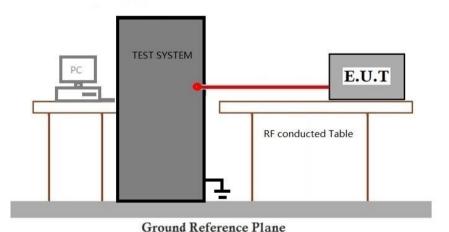
Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 24.6 °C Humidity: 38.9 % 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 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 @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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

I imit:

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

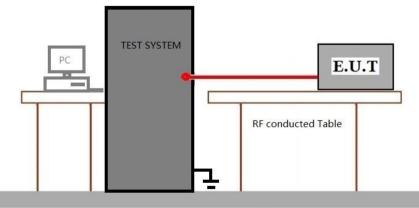
Operating Environment:

Temperature: 24.6 °C 38.9 % RH Atmospheric Pressure: 1020 mbar Humidity:

7.8.2 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 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 @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



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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

I imit:

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

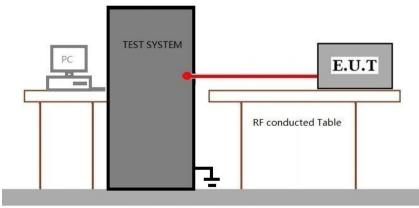
Operating Environment:

Temperature: 24.6 °C 38.9 % RH Atmospheric Pressure: 1020 mbar Humidity:

7.9.2 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 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 @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



Ground Reference Plane



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7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Test Setup Photo 8

Please refer to setup photos.

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2408003142AT



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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 (%)
802.11b		2412	12.250	14.260	85.90	0.66	13.10
	SISO	2437	12.223	12.380	98.73	0.06	0.03
		2462	12.227	12.397	98.63	0.06	0.13
	SISO	2412	2.032	2.190	92.79	0.33	0.00
802.11g		2437	2.032	2.545	79.84	0.98	12.95
		2462	2.033	2.209	92.03	0.36	0.77
000.44	SISO	2412	1.892	2.060	91.84	0.37	0.46
802.11n (HT20)		2437	1.893	2.070	91.45	0.39	0.82
(11120)		2462	1.892	2.050	92.29	0.35	0.04
802.11n (HT40)	SISO	2422	0.932	1.099	84.80	0.72	0.68
		2437	0.933	1.346	69.32	1.59	16.25
		2452	0.932	1.401	66.52	1.77	18.98



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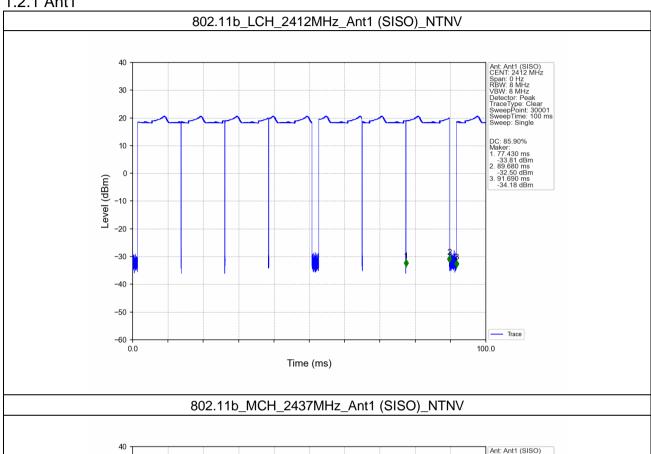
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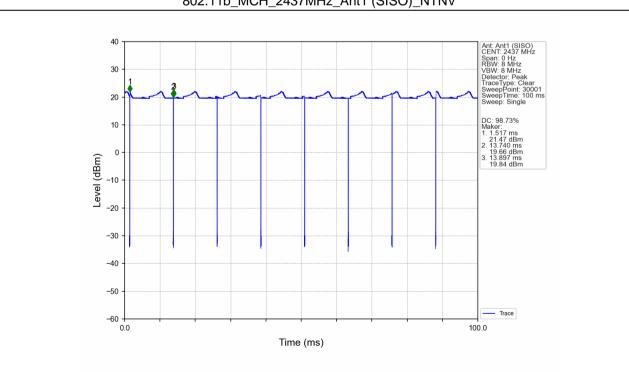
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1.2 Test Graph

1.2.1 Ant1







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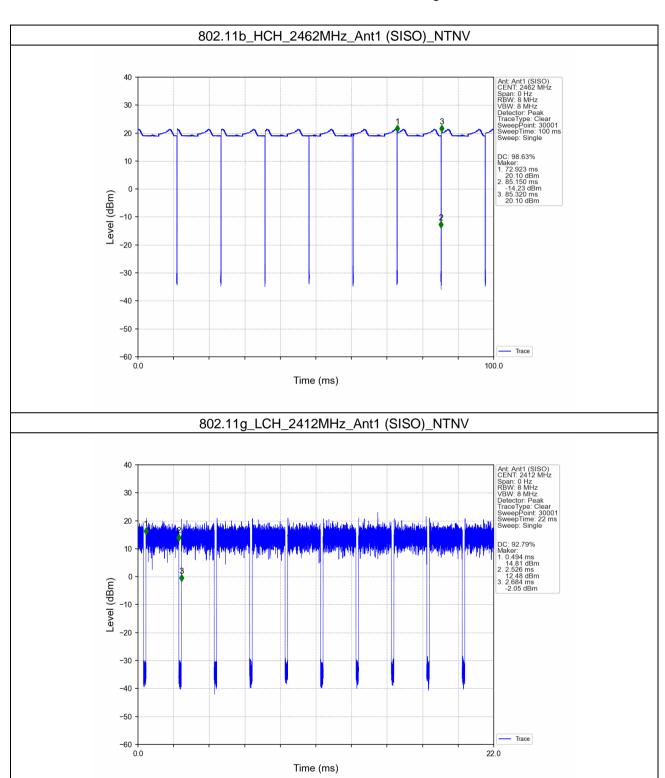
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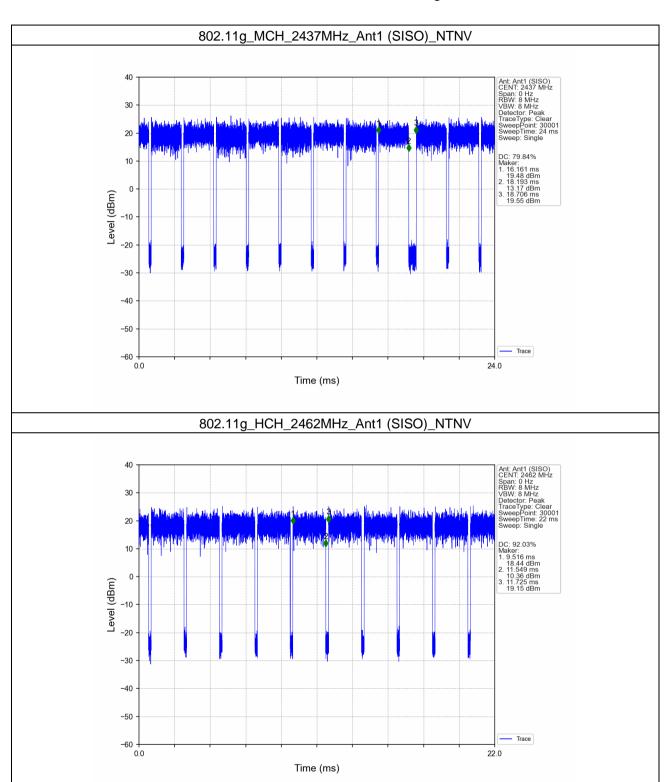
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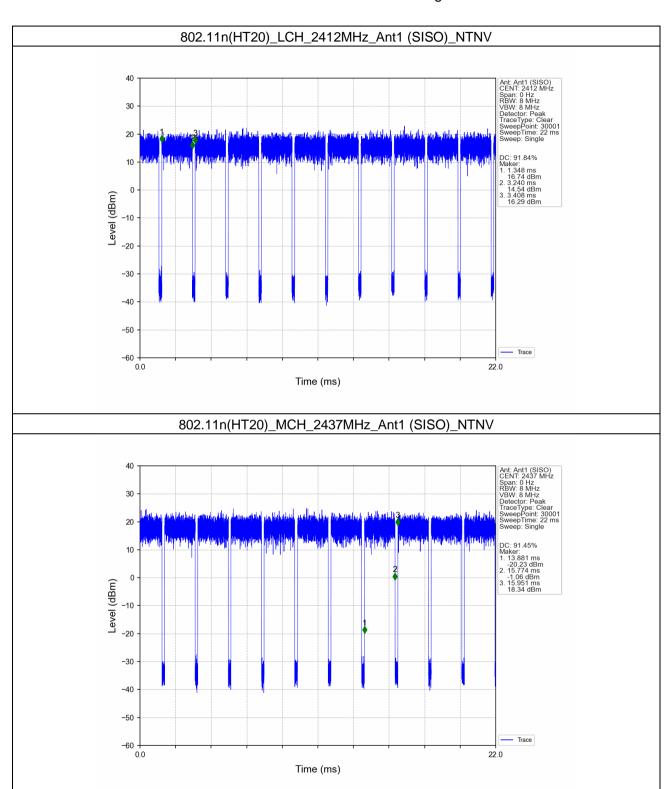
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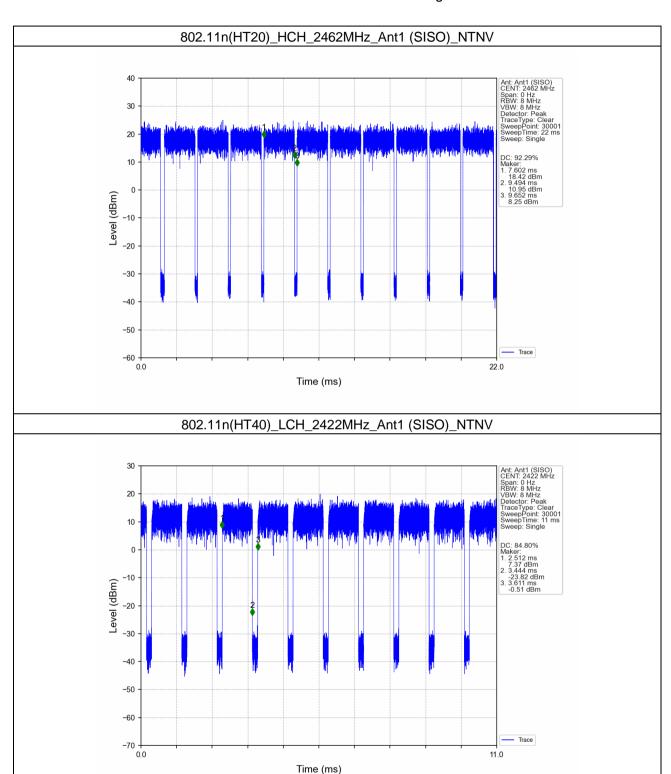
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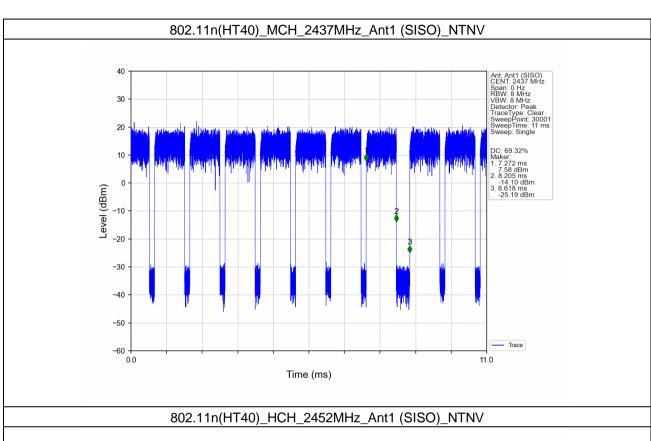
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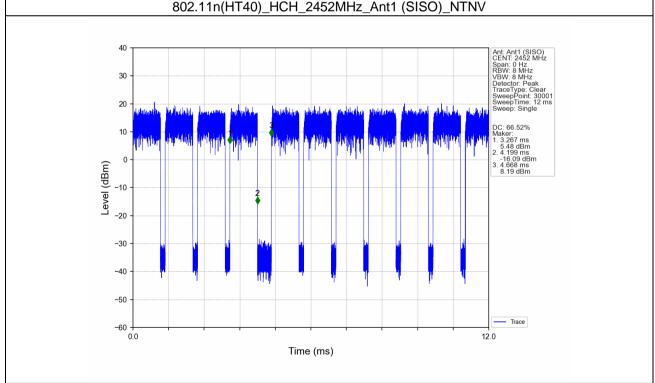


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2. Bandwidth

2.1.1 6dB BW

Mode	TX	Frequency (MHz)	ANT	6dB Bandv	Vordict	
	Type			Result	Limit	Verdict
	SISO	2412	1	10.085	>=0.5	Pass
802.11b		2437	1	10.110	>=0.5	Pass
		2462	1	10.108	>=0.5	Pass
	SISO	2412	1	15.101	>=0.5	Pass
802.11g		2437	1	15.107	>=0.5	Pass
		2462	1	15.172	>=0.5	Pass
000.44	SISO	2412	1	15.153	>=0.5	Pass
802.11n (HT20)		2437	1	15.167	>=0.5	Pass
		2462	1	15.170	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	35.191	>=0.5	Pass
		2437	1	35.195	>=0.5	Pass
		2452	1	35.205	>=0.5	Pass



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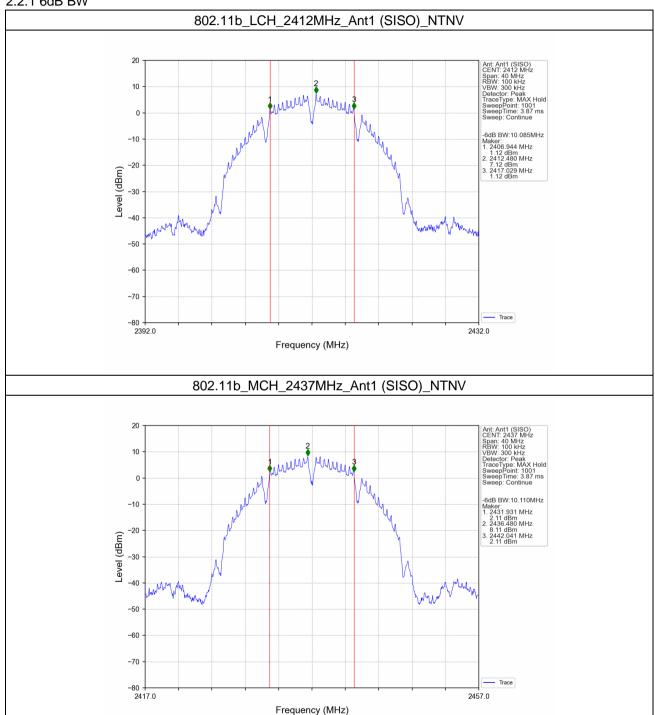
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2.2 Test Graph

2.2.1 6dB BW





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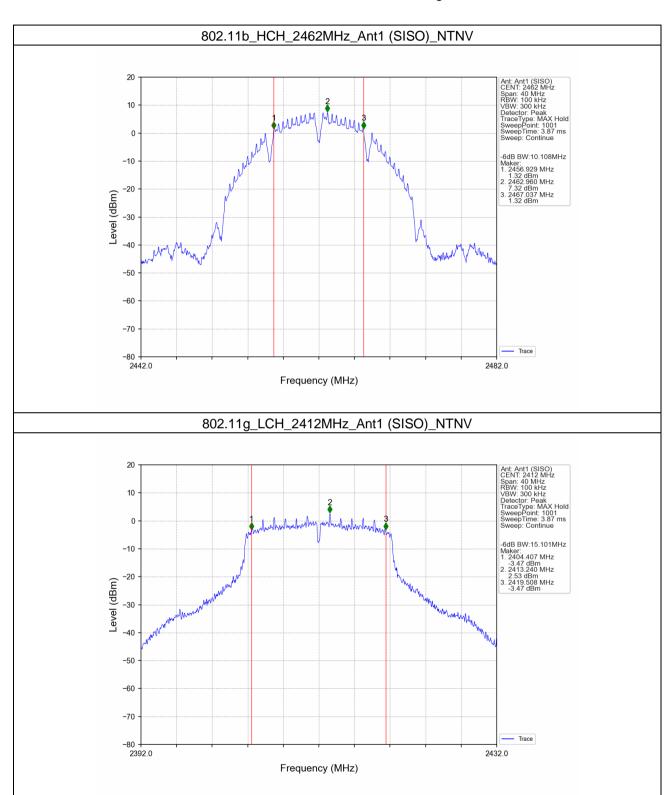
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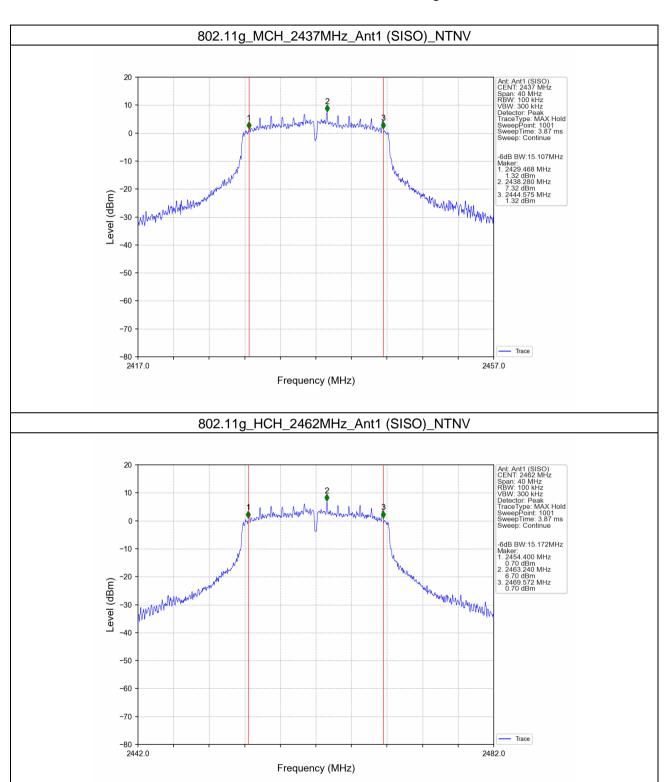
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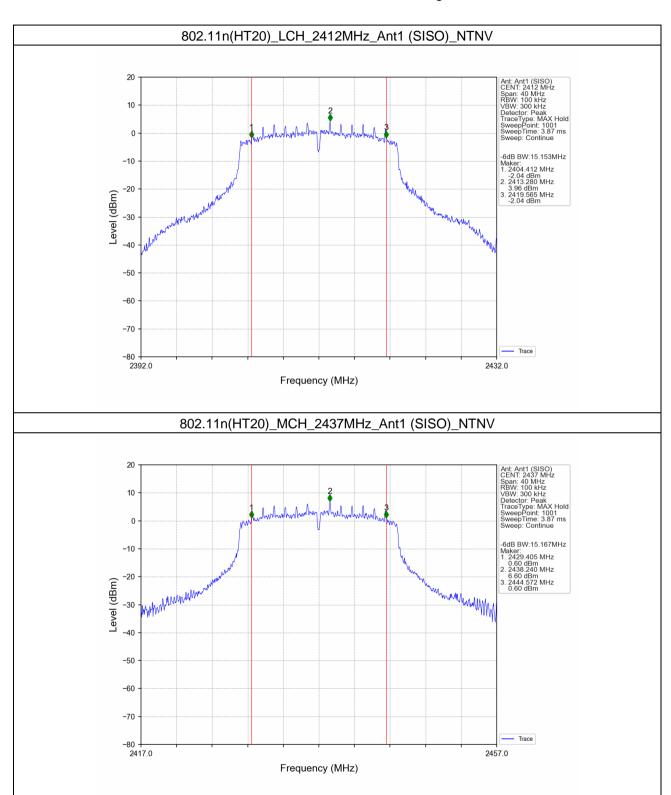
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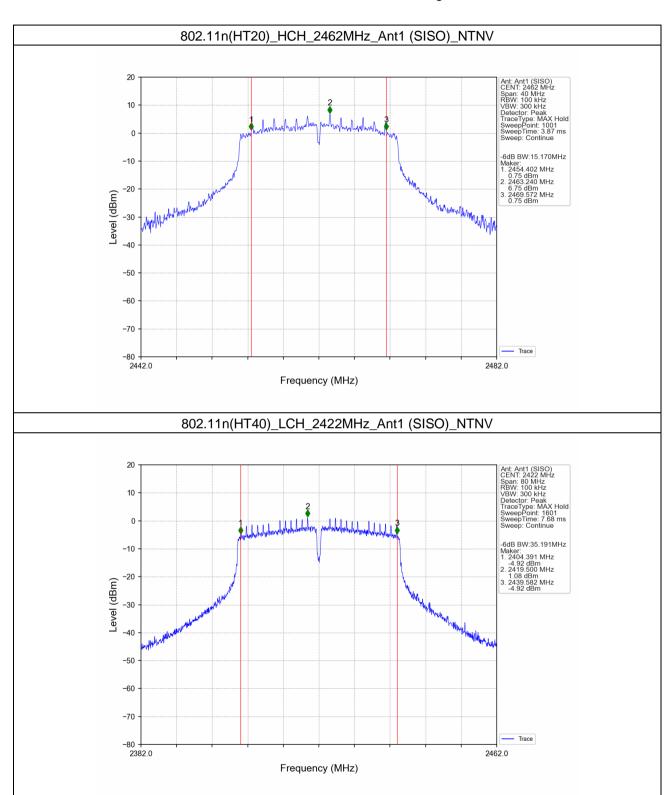
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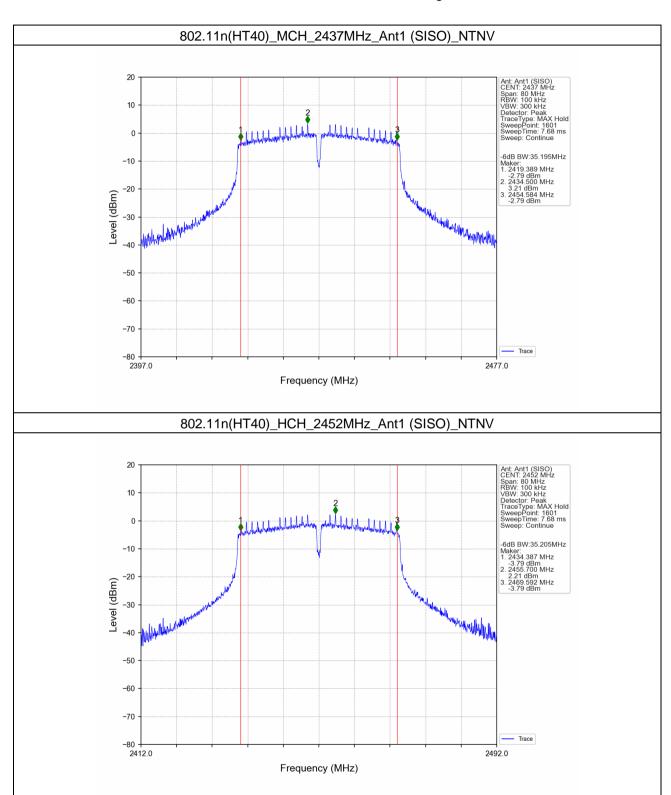
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX	Frequency (MHz)	Maximum Average Co (dE	Verdict	
	Type		ANT1	Limit	
		2412	15.52	<=30	Pass
802.11b	SISO	2437	15.98	<=30	Pass
		2462	16.13	<=30	Pass
	SISO	2412	16.53	<=30	Pass
802.11g		2437	16.78	<=30	Pass
		2462	16.89	<=30	Pass
	SISO	2412	15.17	<=30	Pass
802.11n (HT20)		2437	15.34	<=30	Pass
(11120)		2462	15.48	<=30	Pass
222.11	SISO	2422	13.09	<=30	Pass
802.11n (HT40)		2437	15.37	<=30	Pass
(11140)		2452	15.63	<=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	\/ordiot	
	Type		ANT1	Limit	Verdict
		2412	-6.86	<=8	Pass
802.11b	SISO	2437	-6.39	<=8	Pass
		2462	-6.94	<=8	Pass
	SISO	2412	-6.99	<=8	Pass
802.11g		2437	-6.96	<=8	Pass
		2462	-7.74	<=8	Pass
000 44		2412	-9.49	<=8	Pass
802.11n (HT20)	SISO	2437	-9.00	<=8	Pass
(11120)		2462	-8.94	<=8	Pass
802.11n (HT40)	SISO	2422	-14.16	<=8	Pass
		2437	-12.74	<=8	Pass
		2452	-12.46	<=8	Pass



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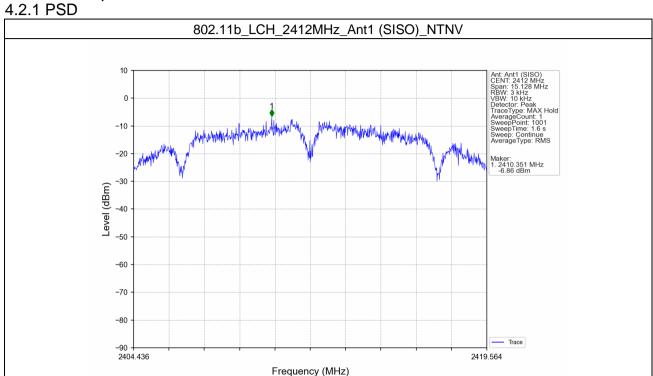
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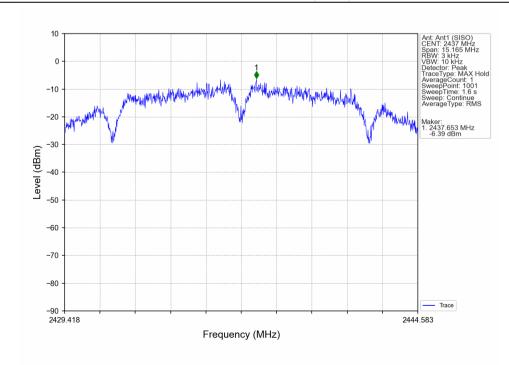
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4.2 Test Graph



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV





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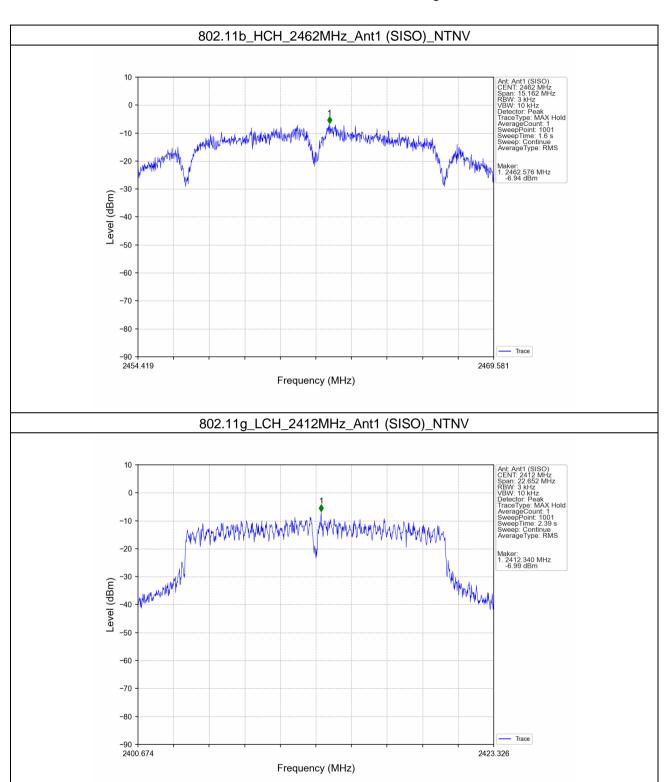
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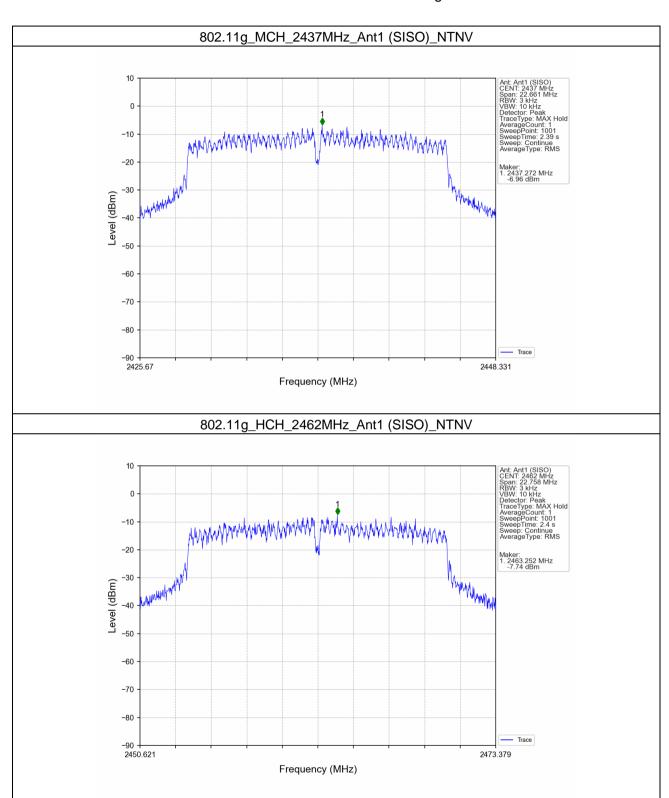
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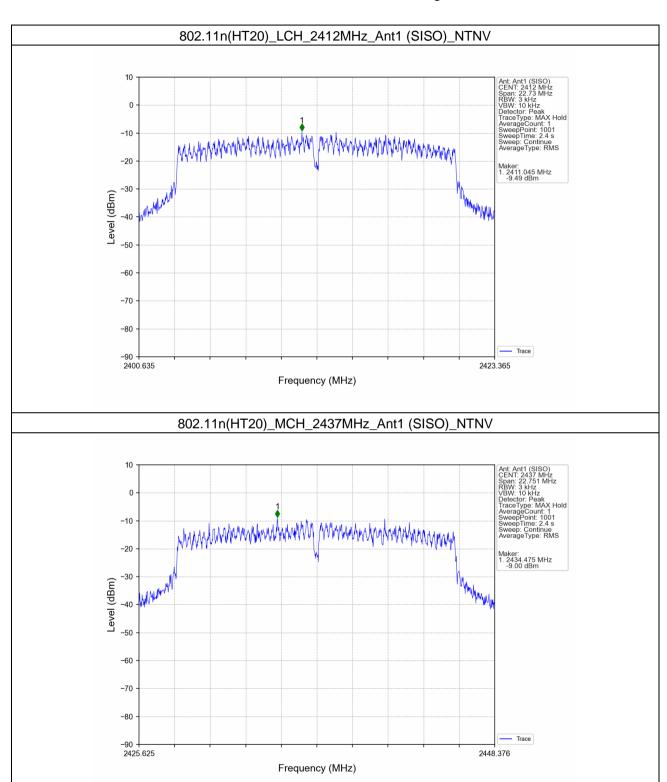
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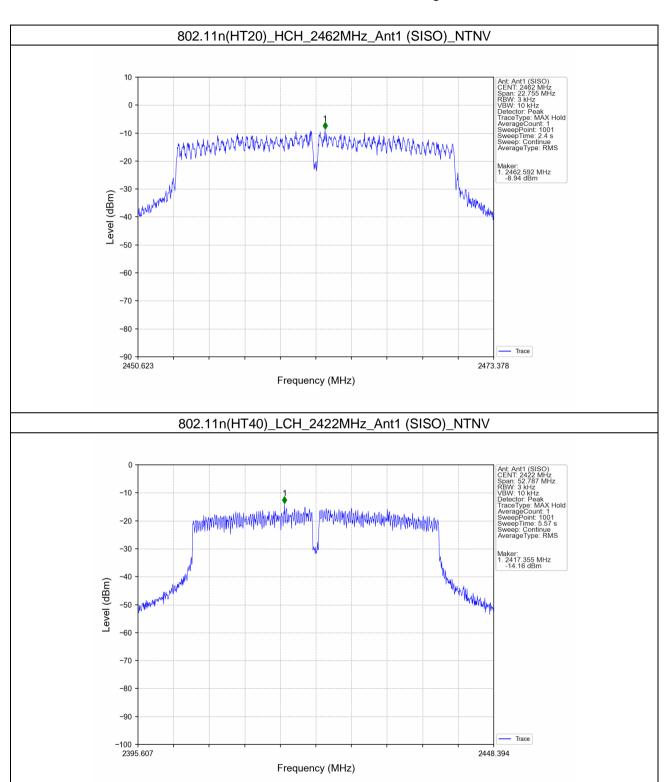
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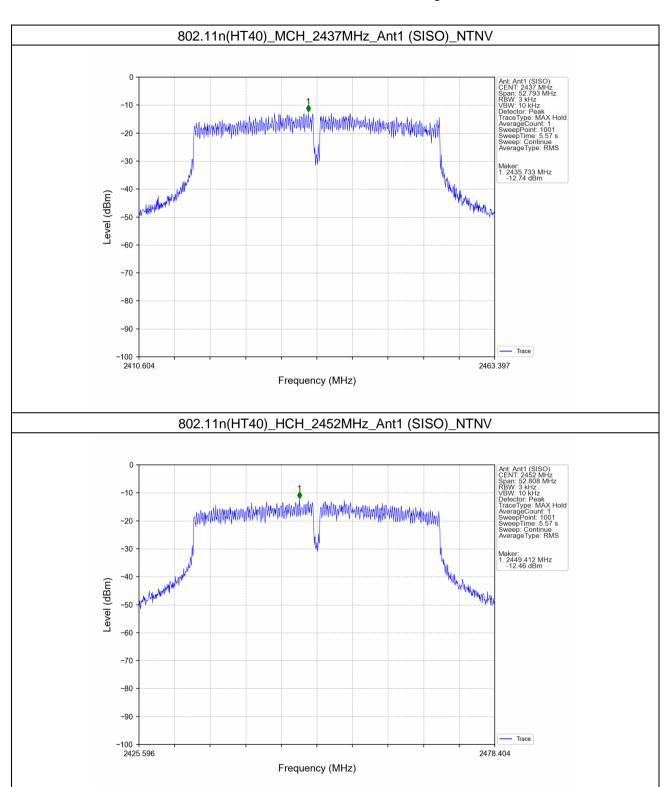
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	
802.11b	SISO	2412	1	6.89	
		2437	1	7.15	
		2462	1	7.80	
802.11g	SISO	2412	1	6.37	
		2437	1	5.70	
		2462	1	6.11	
802.11n (HT20)	SISO	2412	1	5.19	
		2437	1	5.13	
		2462	1	4.80	
802.11n (HT40)	SISO	2422	1	-0.24	
		2437	1	1.95	
		2452	1	2.21	

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	7.80	-22.20	Pass
		2437	1	7.80	-22.20	Pass
		2462	1	7.80	-22.20	Pass
802.11g	SISO	2412	1	6.37	-23.63	Pass
		2437	1	6.37	-23.63	Pass
		2462	1	6.37	-23.63	Pass
802.11n (HT20)	SISO	2412	1	5.19	-24.81	Pass
		2437	1	5.19	-24.81	Pass
		2462	1	5.19	-24.81	Pass
802.11n (HT40)	SISO	2422	1	2.21	-27.79	Pass
		2437	1	2.21	-27.79	Pass
		2452	1	2.21	-27.79	Pass



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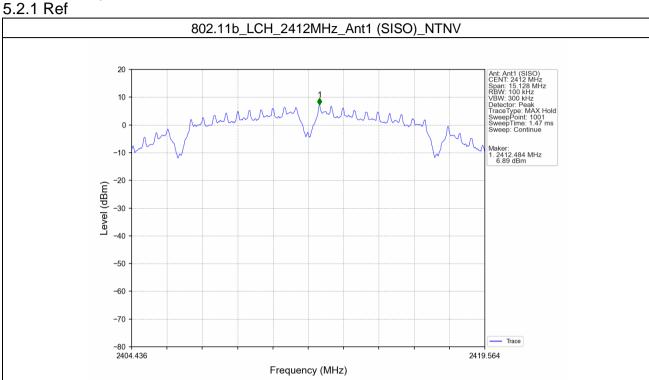


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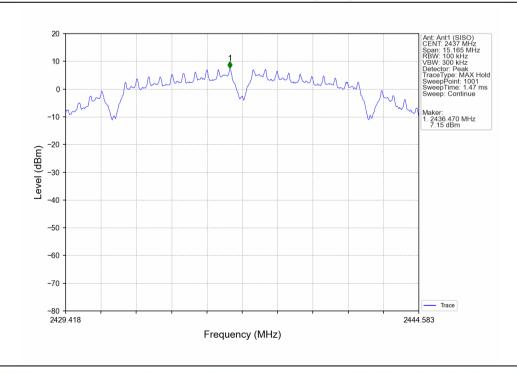
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5.2 Test Graph



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV





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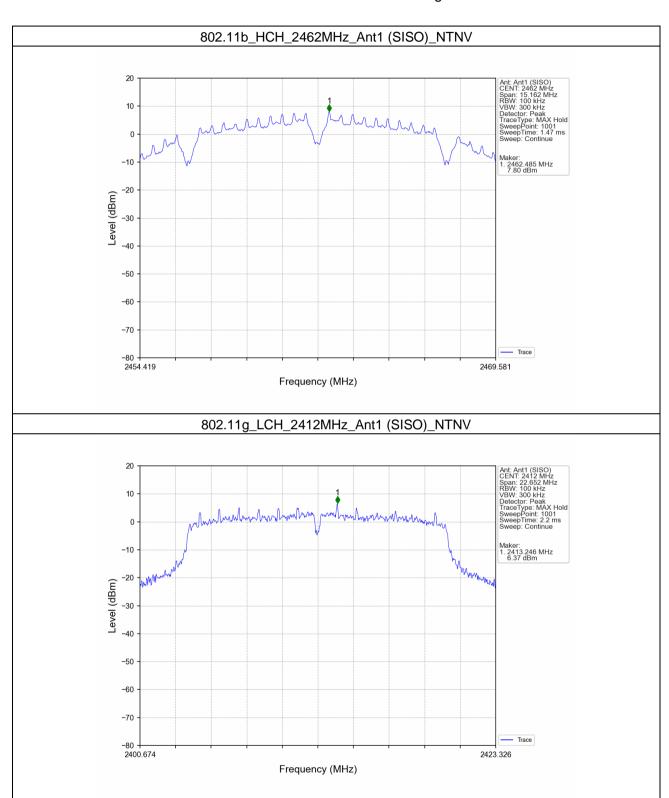
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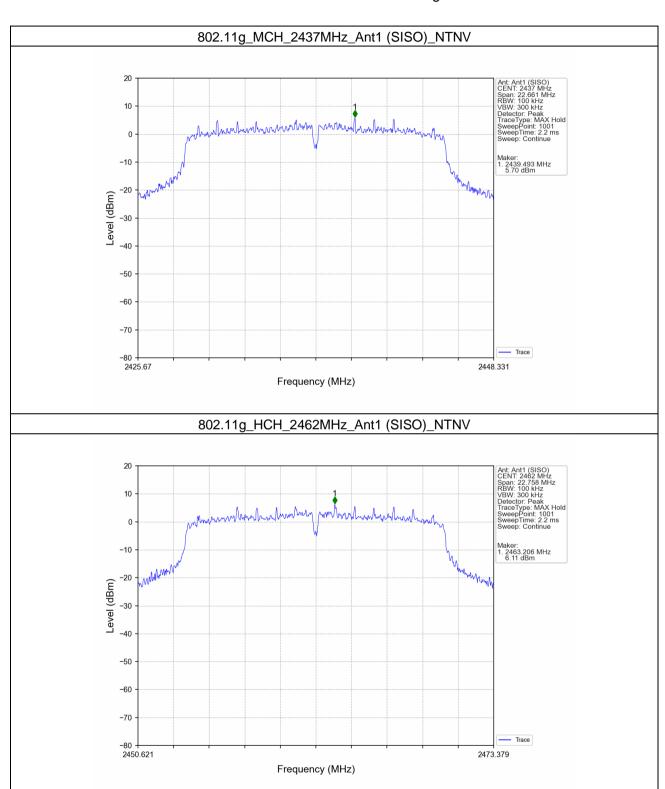
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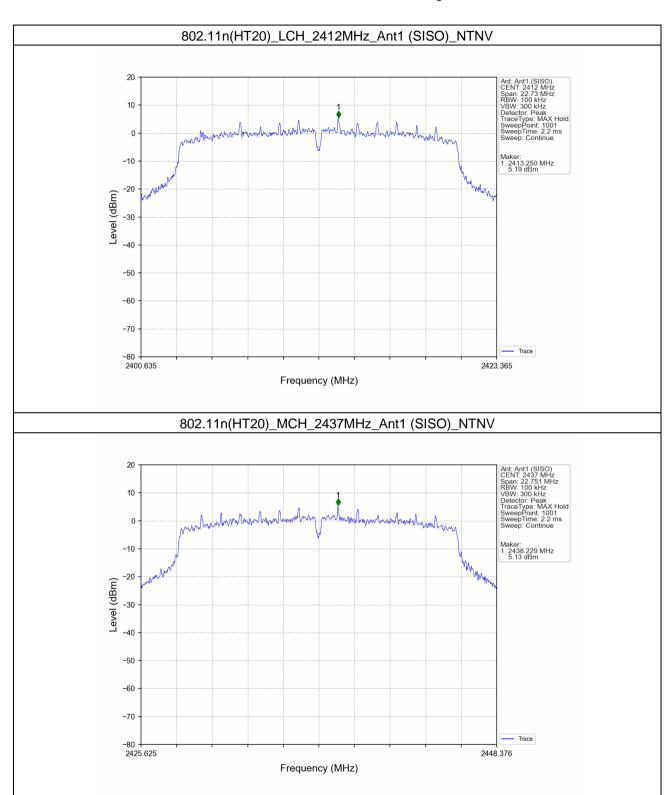
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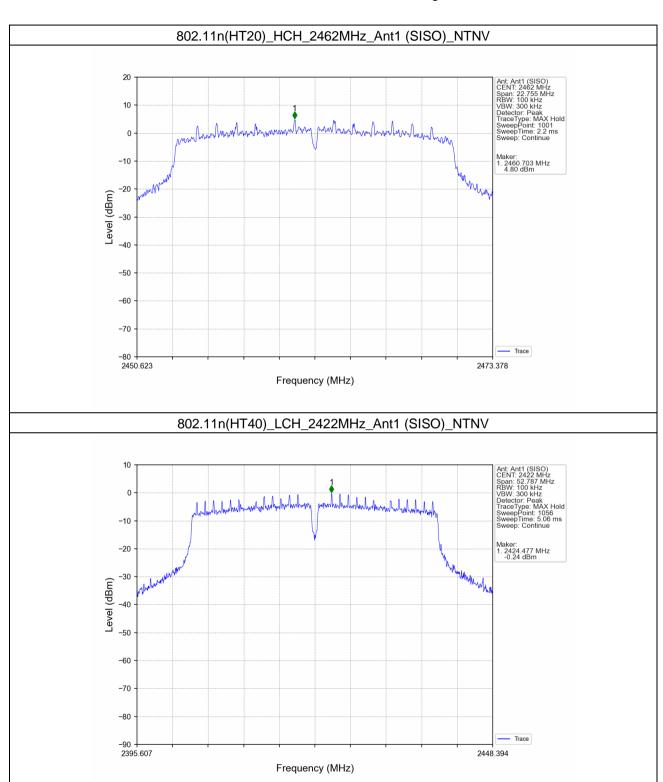
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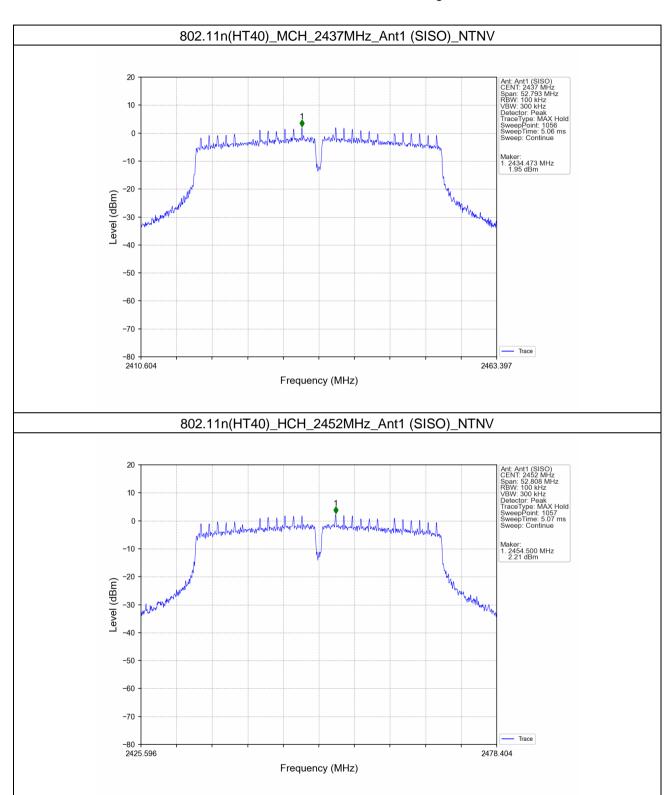
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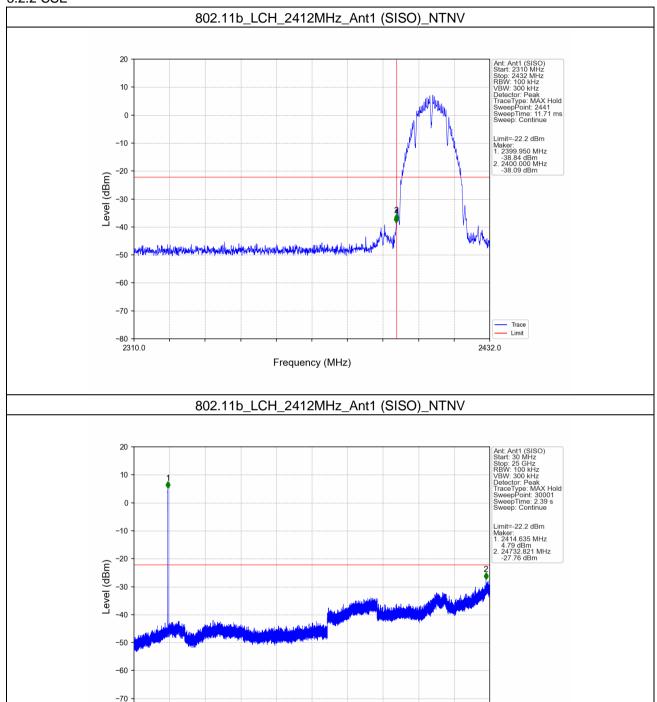


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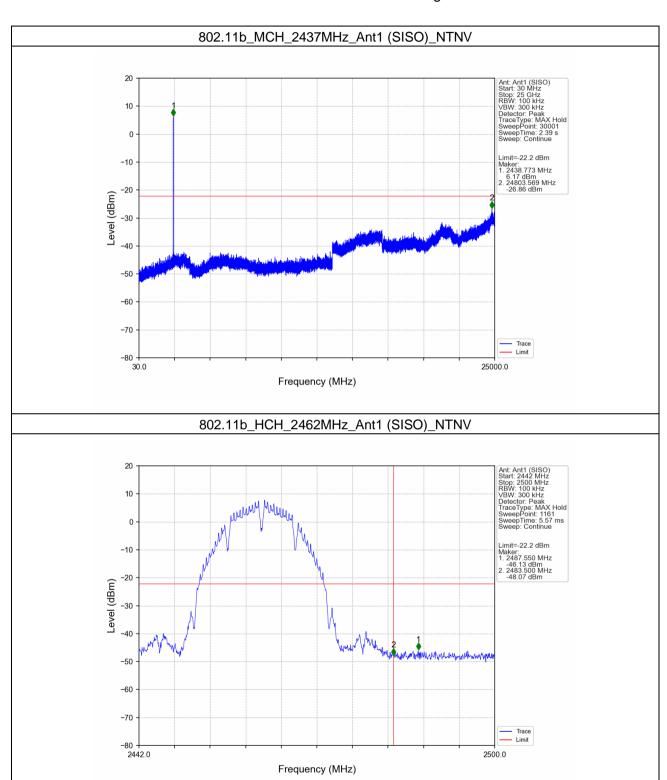
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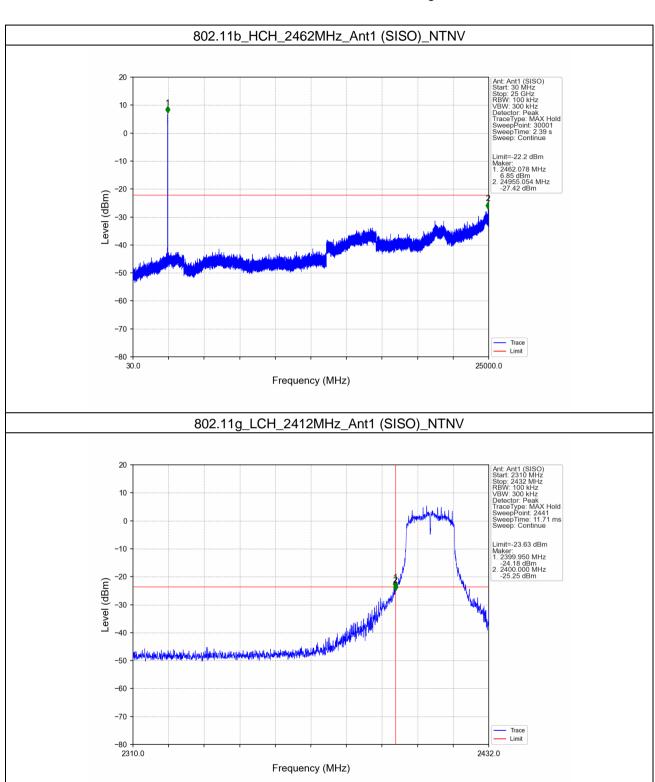
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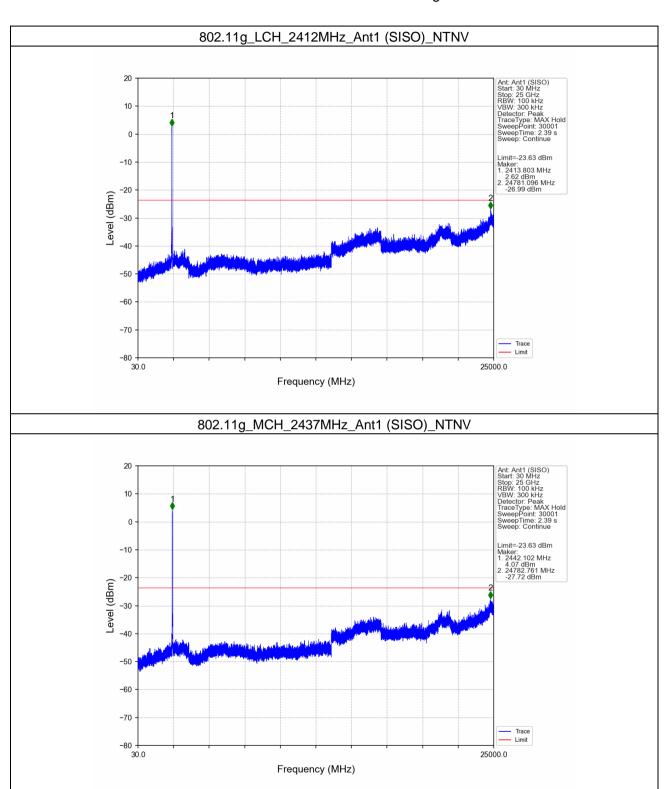
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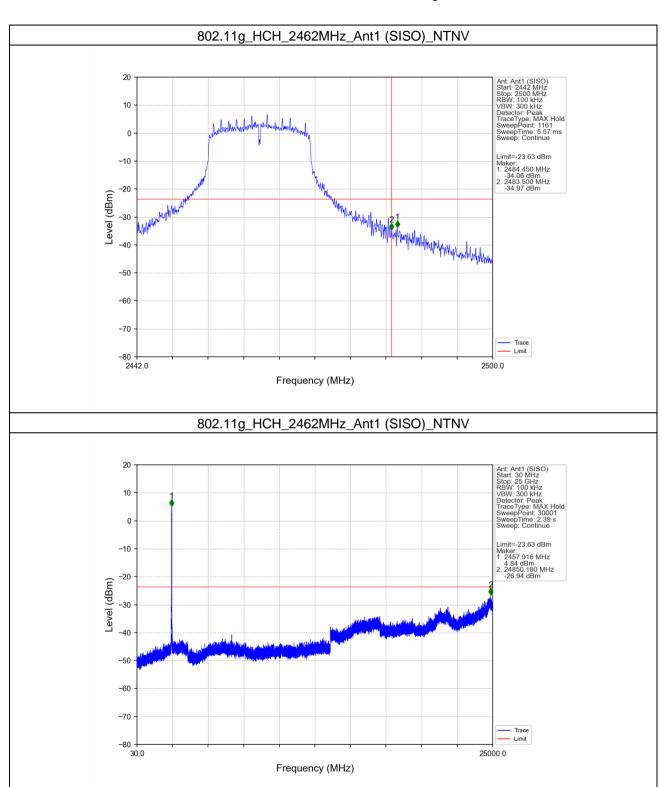
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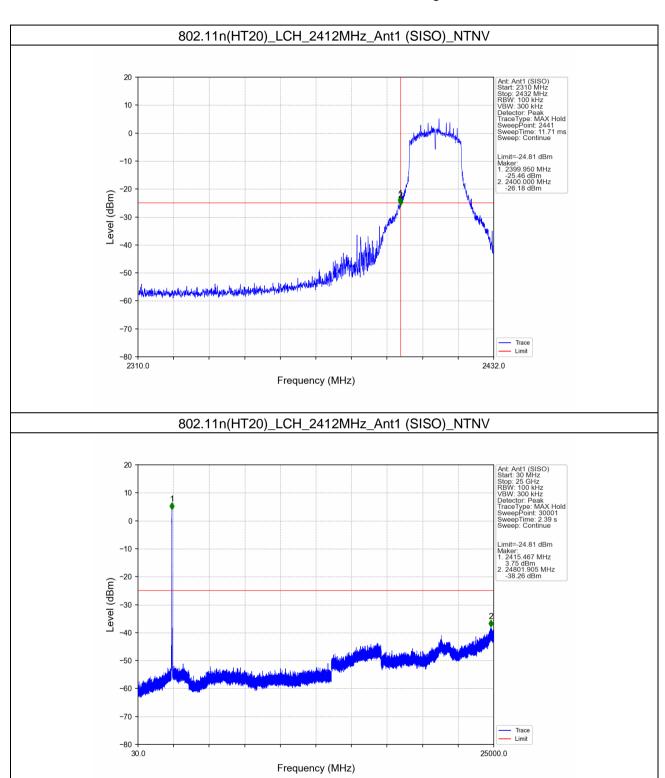
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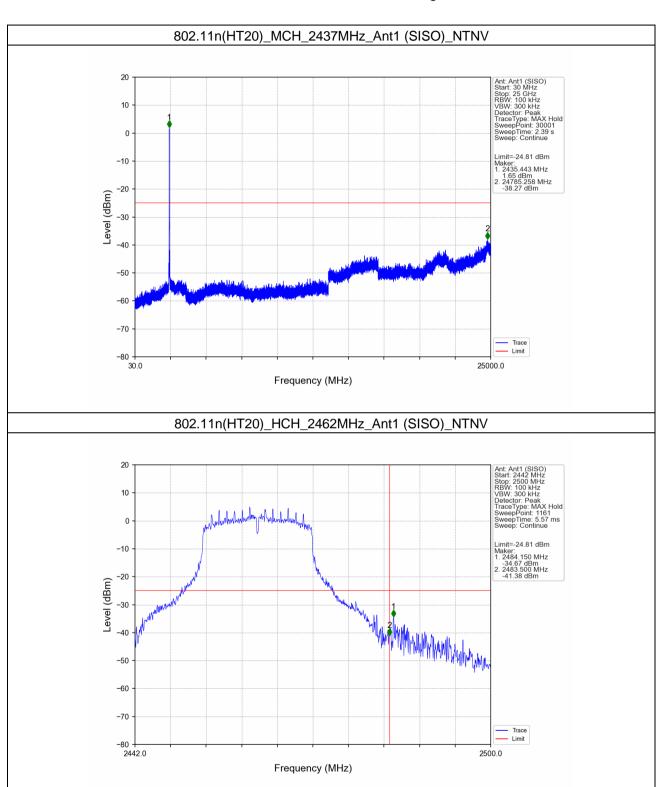
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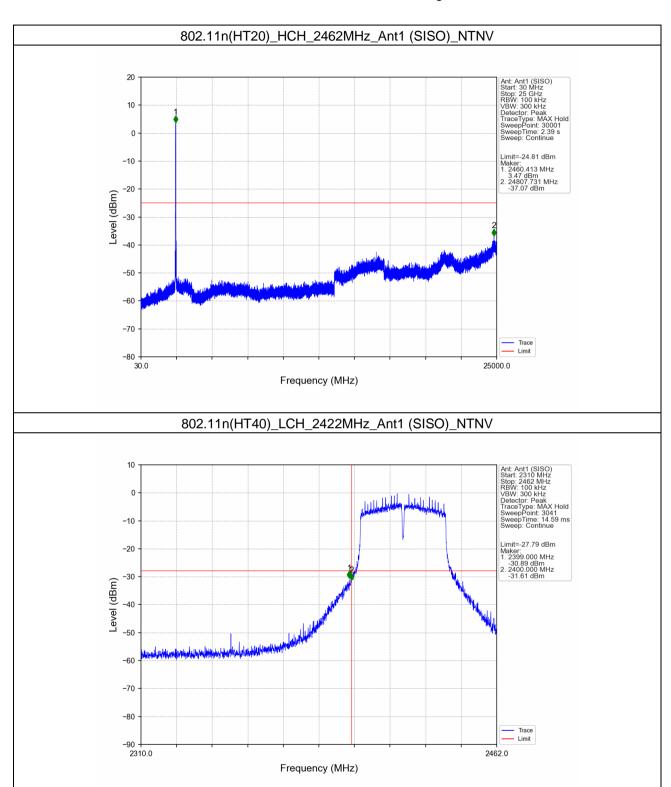
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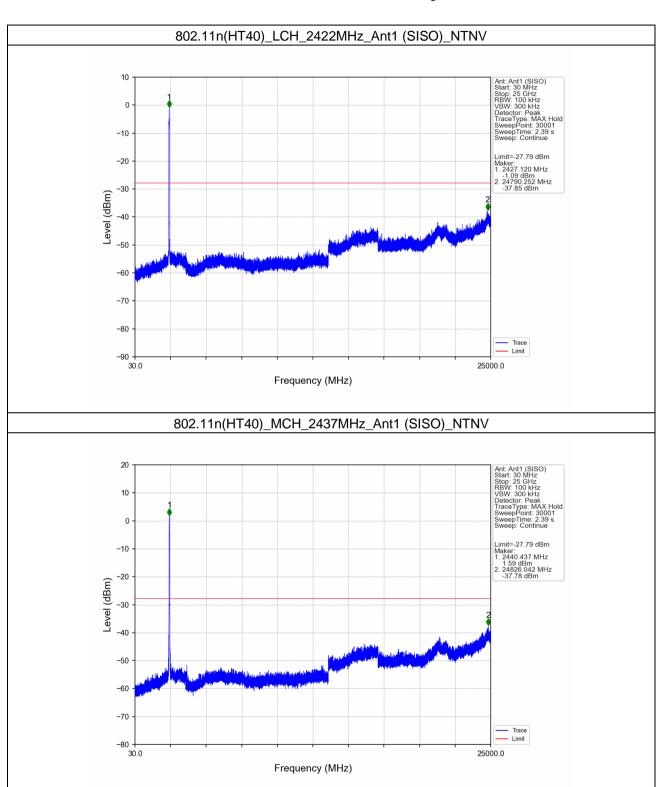
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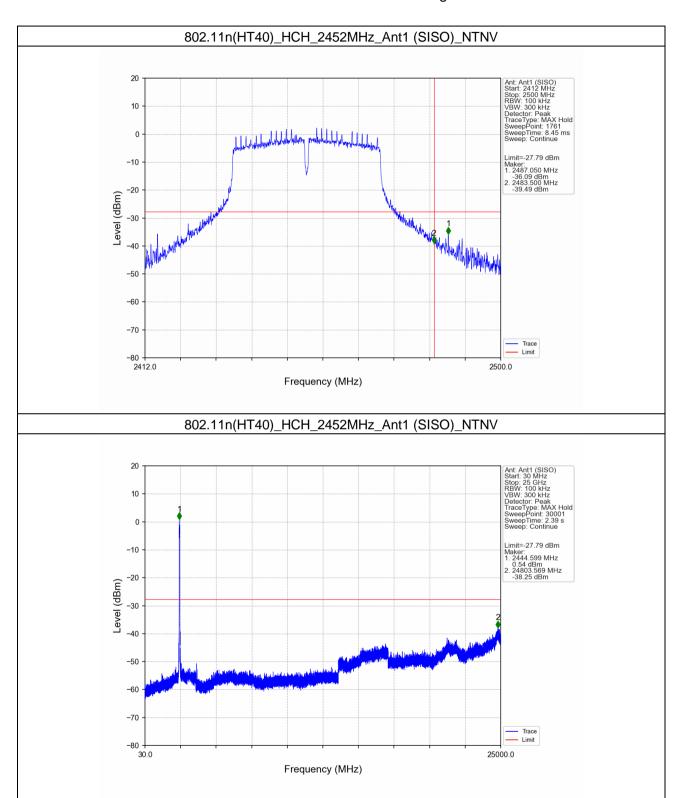
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