



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240700281804

> Page: 1 of 161

TEST REPORT

Application No.: SZCR2407002818AT

Applicant: SZ DJI Osmo Technology Co.,Ltd.

Address of Applicant: Room S11, Floor 23, Tower 1, DJI Sky City, No.55 Xianyuan Road, Xili

Community, Xili Street, Nanshan District, Shenzhen

SZ DJI Osmo Technology Co.,Ltd. Manufacturer:

Address of Manufacturer: Room S11, Floor 23, Tower 1, DJI Sky City, No.55 Xianyuan Road, Xili

Community, Xili Street, Nanshan District, Shenzhen

Factory: SZ DJI Ronin Technology Co., Ltd.

Address of Factory: Floor 4-5, Block 13, Area 7, Baiwangxin Industrial Park, Songbai Rd,

Nanshan District, Shenzhen City, Guangdong Province, P. R. China

Equipment Under Test (EUT):

EUT Name: DJI Osmo 360

Model No.: **OQ001** Trade Mark: DJI

FCC ID: 2ANDR-OQ0012024

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

2024-07-17 Date of Receipt:

Date of Test: 2024-07-25 to 2024-09-04

Date of Issue: 2024-09-10

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		2024-09-10		Original			

Authorized for issue by:		
	Darren Yuan	
	Darren Yuan/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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2 **Test Summary**

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

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass	
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Radiated Spurious Emissions Above 1GHz	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass	
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass	
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass	
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass	



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General Information

4.1 Details of E.U.T.

	Dotallo of Eloiti	
	Power supply:	Powered by Lithium Ion Rechargeable Battery
		Battery Information
		Model: BCX204-1950-3.87
		Nominal Voltage: 3.87VDC
		Rated Capacity: 1950mAh
	Cable(s):	USB-C to USB-C Cable: 51cm unshielded
	Operation Frequency:	802.11b/g/n(HT20)/ax(HEW20): 2412MHz to 2462MHz;
	Modulation Type	802.11b: DSSS (CCK, DQPSK, DBPSK);
Modulation Type:		802.11g/n/ax: OFDM (64QAM, 16QAM, QPSK, BPSK)
	Number of Channels:	802.11b/g/n(HT20)/ax(HEW20):11
	Channel Spacing:	5MHz
	Antenna Type:	FPC Antenna
	Antenna Gain:	ANT0: 0.87dBi, ANT1: 0.85dBi
	Cable Loss (for RF conducted test):	1.5dB

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

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Huntkey	PD-30CN	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 Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB

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	SEM007.04	2023-09-19	2024-09-18	
LION	Ronde&Schwarz	ENVZIO	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	2023-09-19	2024-09-18	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05	
Broad-Band Horn	Schwarzbeck	BBHA 9170	SEM002.45	2022-08-10	2024-08-09	
Antenna	Schwarzbeck	DDNA 9170	SEM003-15	2024-08-10	2025-08-09	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14	

Radiated Spurious Emissions Below 1GHz							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19		
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18		
MANUE EMIL Deseiver	Agilent Technologies	N9038A	9038A SEM004-15	2023-10-19	2024-10-18		
MXE EMI Receiver	Aglient rechnologies	N9036A	SEM004-15	2024-08-14 2025-08-1	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		



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Coaxial Cable SGS N/A SEM025-01 2024-07-
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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	Antenna Rohde&Schwarz		SEM003-07	2023-07-23	2025-07-22				
Microwave system amplifier	Agilent	83017A SEM005-25		2023-09-19	2024-09-18				
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A		N/A				
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05				
Broad-Band Horn	Cabusarrhaals	DDIIA 0470	CEM002 45	2022-08-10	2024-08-09				
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. I		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 Davier Comple	Chromo	C2042D 00 C0	CEMO44 44	2023-10-19	2024-10-18					
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	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

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 lack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is no consideration of replacement. The best case gain of the antennas are ANT0: 0.87dBi, ANT1: 0.85dBi, the directional gain is 3.88dBi.

Antenna location: Refer to internal photo.



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Radio Spectrum Matter Test Results 7

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

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

Limit:

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

7.1.1 E.U.T. Operation

Operating Environment:

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

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	Charge + TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); Only the data of worst case is recorded in the report.



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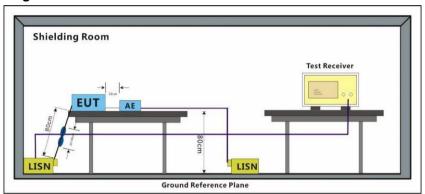
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

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



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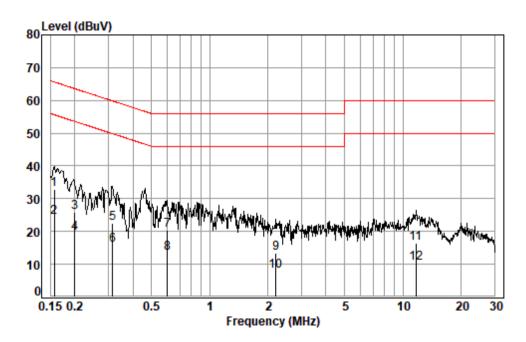


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Test Mode: 08: Line: Live line



: Shielding Room

Condition: Line

Job No. : 02818AT/02819AT

Test mode: 08

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV			
	МПΖ	uв	ub	ubuv	ubuv	dBuV	dB	
1 *	0.1573	0.02	9.89	22.86	32.77	65.60	-32.83	QP
2 *	0.1573	0.02	9.89	14.47	24.38	55.60	-31.22	Average
3	0.2007	0.02	9.93	15.83	25.78	63.58	-37.80	QP
4	0.2007	0.02	9.93	9.49	19.44	53.58	-34.14	Average
5	0.3149	0.03	10.02	12.60	22.65	59.84	-37.19	QP
6	0.3149	0.03	10.02	5.64	15.69	49.84	-34.15	Average
7	0.6043	0.04	9.98	10.49	20.51	56.00	-35.49	QP
8	0.6043	0.04	9.98	3.29	13.31	46.00	-32.69	Average
9	2.2015	0.07	10.01	3.41	13.49	56.00	-42.51	QP
10	2.2015	0.07	10.01	-2.16	7.92	46.00	-38.08	Average
11	11.6826	0.19	10.25	6.11	16.55	60.00	-43.45	QP
12	11.6826	0.19	10.25	-0.13	10.31	50.00	-39.69	Average

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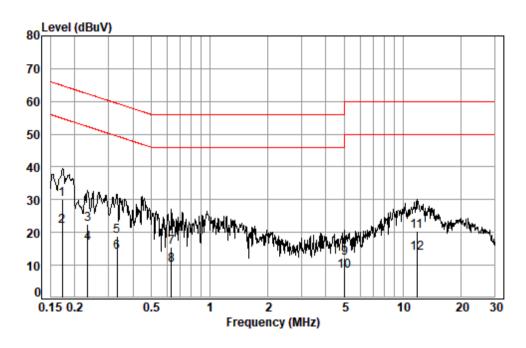


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Test Mode: 08; Line: Neutral Line



: Shielding Room

Condition: Neutral

Job No. : 02818AT/02819AT

Test mode: 08

	Cable Freq Loss		LISN Read Factor Level				Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1722	0.02	9.90	20.11	30.03	64.86	-34.83	QP
2 *	0.1722	0.02	9.90	12.07	21.99	54.86	-32.87	Average
3	0.2341	0.03	9.91	12.45	22.39	62.30	-39.91	QP
4	0.2341	0.03	9.91	6.80	16.74	52.30	-35.56	Average
5	0.3321	0.03	9.92	8.89	18.84	59.40	-40.56	QP
6	0.3321	0.03	9.92	4.14	14.09	49.40	-35.31	Average
7	0.6338	0.04	9.97	5.54	15.55	56.00	-40.45	QP
8	0.6338	0.04	9.97	-0.09	9.92	46.00	-36.08	Average
9	5.0046	0.09	10.01	1.95	12.05	60.00	-47.95	QP
10	5.0046	0.09	10.01	-1.78	8.32	50.00	-41.68	Average
11	11.8697	0.19	10.27	9.82	20.28	60.00	-39.72	QP
12	11.8697	0.19	10.27	3.26	13.72	50.00	-36.28	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: 22.7 °C Humidity: 68.4 % RH Atmospheric Pressure: 1020 mbar



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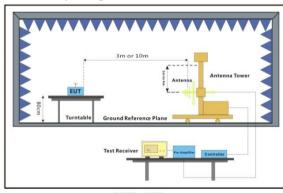
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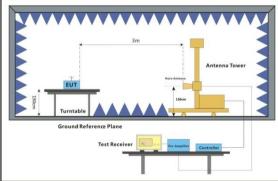
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7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	07	TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested 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 @ MCS0 is the worst case of IEEE 802.11ax(HEW20); Only the data of worst case is recorded in the report.
Final test	08	Charge + TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz



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7.2.4 Measurement Procedure and Data

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

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

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



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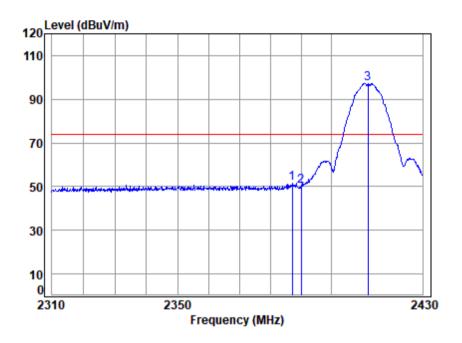


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT Mode : 2412 Band edge

: 2.4G WIFI 11B

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.186	15.81	29.10	37.44	43.97	51.44	74.00	-22.56	peak
2	2390.000	15.81	29.10	37.44	42.62	50.09	74.00	-23.91	peak
3 p	2412.000	15.82	29.05	37.38	89.71	97.20	74.00	23.20	peak



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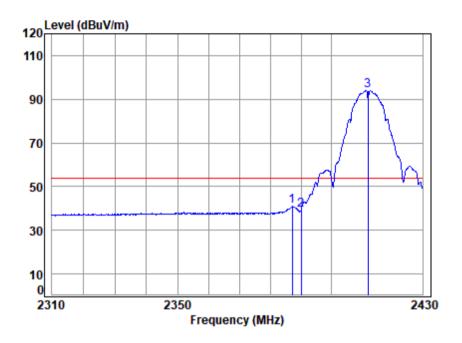


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Report No.: SZCR240700281804

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT : 2412 Band edge Mode

: 2.4G WIFI 11B

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.065	15.81	29.10	37.44	33.41	40.88	54.00	-13.12	Average
2	2390.000	15.81	29.10	37.44	31.86	39.33	54.00	-14.67	Average
3 a	2412.000	15.82	29.05	37.38	86.68	94.17	54.00	40.17	Average



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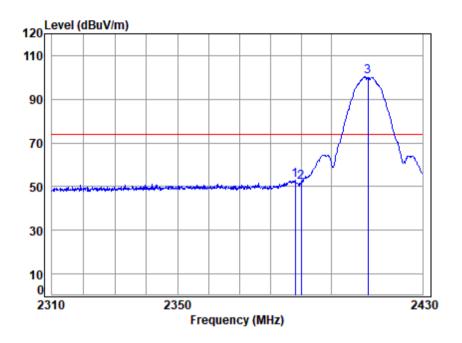


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Report No.: SZCR240700281804

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Test Mode: 08: Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT Mode : 2412 Band edge

· 2 4G WTET 11B

	. 2.	4G WIL	1 110							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2388.154	15.81	29.10	37.44	45.36	52.83	74.00	-21.17	Peak	
2	2390.000	15.81	29.10	37.44	44.37	51.84	74.00	-22.16	Peak	
3	n 2412,000	15.82	29.05	37.38	92.67	100.16	74.00	26.16	Peak	



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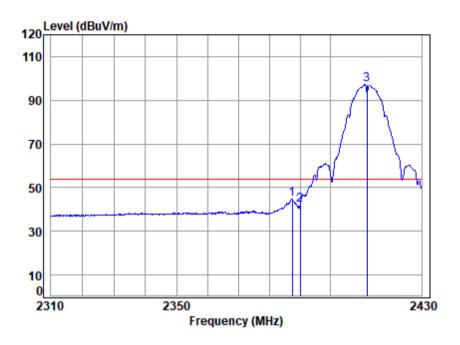


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Report No.: SZCR240700281804

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Test Mode: 08: Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT Mode : 2412 Band edge

: 2.4G WIFI 11B

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.428	15.81	29.10	37.44	37.32	44.79	54.00	-9.21	Average
2	2390.000	15.81	29.10	37.44	34.62	42.09	54.00	-11.91	Average
3 q	2412.000	15.82	29.05	37.38	89.78	97.27	54.00	43.27	Average



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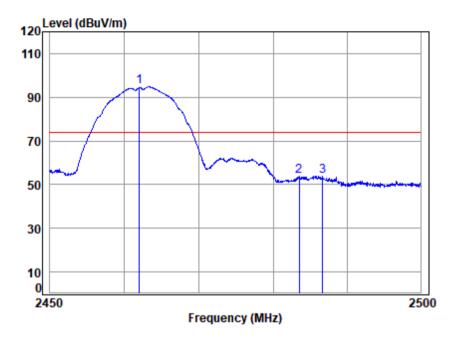


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT Mode : 2462 Band edge

: 2.4G WIFI 11B

	Freq			Preamp Factor						
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
	2462.000								-	
	2483.500	15.86	28.90	37.22	46.47	54.01	74.00	-19.99	peak	
3	2486.702	15.86	28.90	37.21	46.50	54.05	74.00	-19.95	peak	



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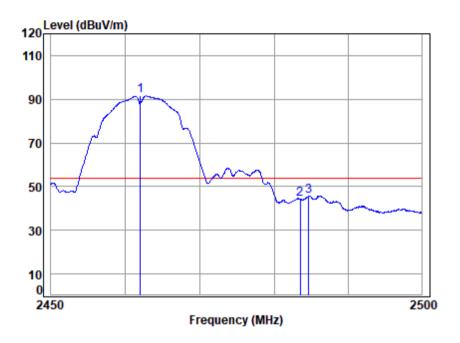


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Report No.: SZCR240700281804

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT Mode : 2462 Band edge

: 2.4G WIFI 11B

	Freq						Limit Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	15.85	28.90	37.27	84.15	91.63	54.00	37.63	Average
2	2483.500	15.86	28.90	37.22	36.79	44.33	54.00	-9.67	Average
3	2484.693	15.86	28.90	37.21	38.21	45.76	54.00	-8.24	Average



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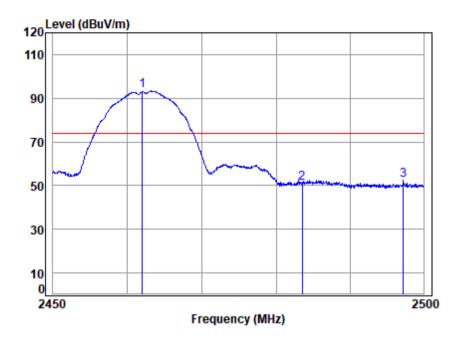


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Test Mode: 08; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT Mode : 2462 Band edge

· 2 4G WTET 11B

	. 2	+O MII	1 110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
р	2462.000	15.85	28.90	37.27	85.84	93.32	74.00	19.32	Peak
	2483.500	15.86	28.90	37.22	43.76	51.30	74.00	-22.70	Peak
	2497 274	15 87	28 90	37 18	44 84	52 43	74 99	-21 57	Peak



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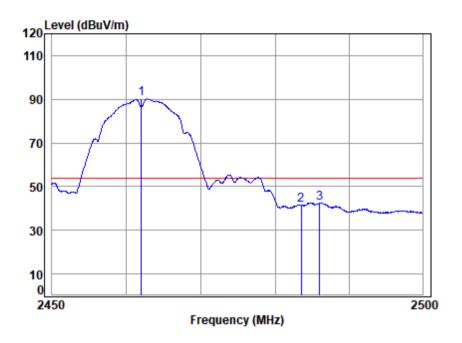


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Report No.: SZCR240700281804

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Test Mode: 08; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT Mode : 2462 Band edge

: 2.4G WIFI 11B

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1 q	2462.000	15.85	28.90	37.27	82.71	90.19	54.00	36.19	Average	
2	2483.500	15.86	28.90	37.22	33.82	41.36	54.00	-12.64	Average	
3	2486.049	15.86	28.90	37.21	35.09	42.64	54.00	-11.36	Average	



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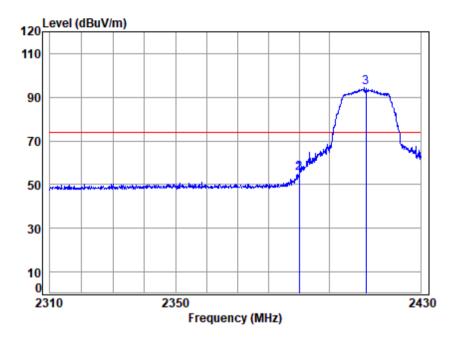


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT Mode : 2412 Band edge

: 2.4G WIFI 11G

	. 2	TO WILL	1 110							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.968	15.81	29.10	37.44	47.67	55.14	74.00	-18.86	peak	
2	2390.000	15.81	29.10	37.44	47.67	55.14	74.00	-18.86	peak	
3 n	2/12 000	15 82	29 05	37 38	86 93	9/ /2	7/ 00	20 /2	neak	



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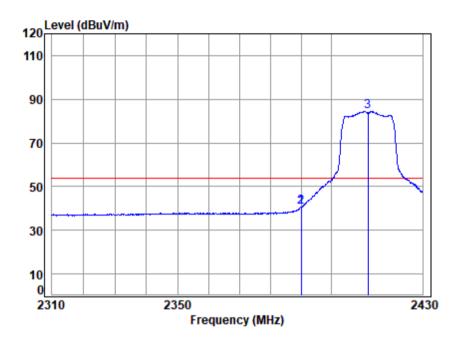


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT Mode : 2412 Band edge

: 2.4G WIFI 11G

		TO WILL	1 110							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.968	15.81	29.10	37.44	33.14	40.61	54.00	-13.39	Average	
2	2390.000	15.81	29.10	37.44	33.14	40.61	54.00	-13.39	Average	
3 0	2/12 000	15 82	29 05	37 38	76 91	8/ //	5/ 00	30 10	Avenage	



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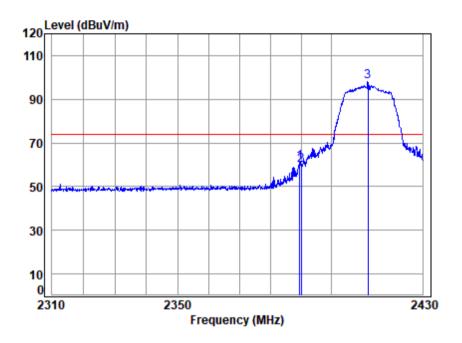


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Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT Mode : 2412 Band edge

· 2 4G WIFT 11G

	. 2	+Q MIL	1 110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.605	15.81	29.10	37.44	53.81	61.28	74.00	-12.72	Peak
2	2390.000	15.81	29.10	37.44	52.45	59.92	74.00	-14.08	Peak
3 n	2412 000	15 82	29 05	37 38	90 79	98 28	74 99	24 28	Peak



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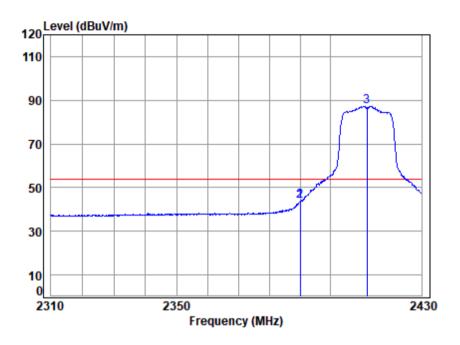


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Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT Mode : 2412 Band edge

: 2.4G WIFI 11G

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	15.81	29.10	37.44	36.12	43.59	54.00	-10.41	Average
2	2390.000	15.81	29.10	37.44	36.12	43.59	54.00	-10.41	Average
3 q	2412.000	15.82	29.05	37.38	79.62	87.11	54.00	33.11	Average



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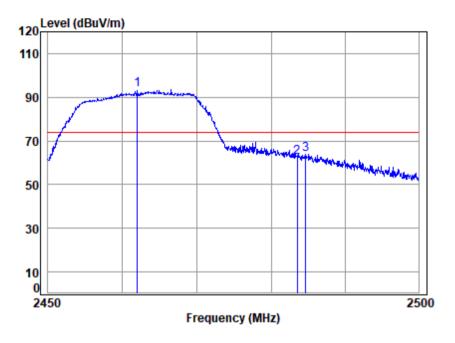


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT Mode : 2462 Band edge

: 2.4G WIFI 11G

		TO WILL	1 110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
р	2462.000	15.85	28.90	37.27	85.94	93.42	74.00	19.42	peak
	2483.500								•
	2484 603								•



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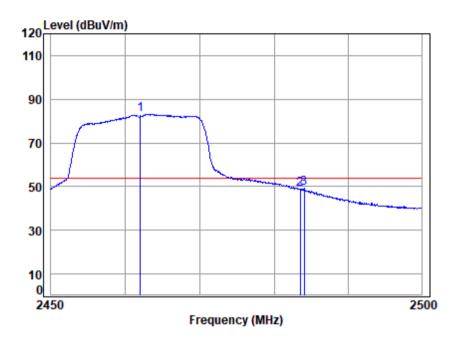


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Report No.: SZCR240700281804

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT Mode : 2462 Band edge

: 2.4G WIFI 11G

	Freq						Limit Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2462.000								_
2	2483.500	15.86	28.90	37.22	41.31	48.85	54.00	-5.15	Average
3	2484.091	15.86	28.90	37.22	41.62	49.16	54.00	-4.84	Average



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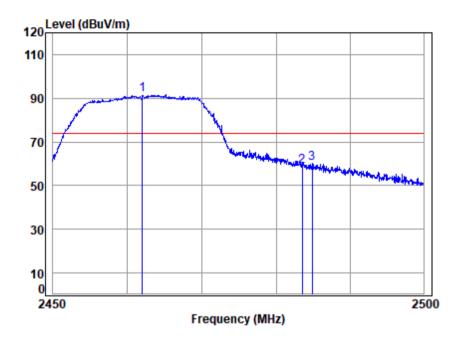


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Report No.: SZCR240700281804

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Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT Mode : 2462 Band edge

· 2 4G WIFT 11G

. 2.4d WITI IIG										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
p	2462.000	15.85	28.90	37.27	84.23	91.71	74.00	17.71	Peak	
2	2483.500	15.86	28.90	37.22	51.26	58.80	74.00	-15.20	Peak	
	2484 844	15 86	28 90	37 21	52 74	60 29	74 00	-13 71	Peak	



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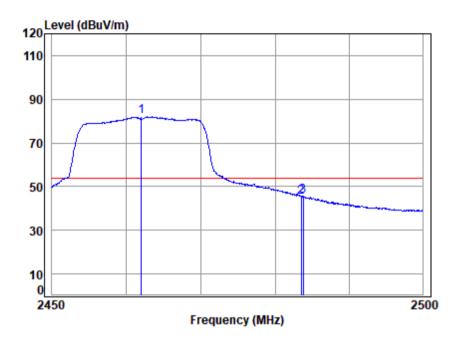


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Report No.: SZCR240700281804

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Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT Mode : 2462 Band edge

: 2.4G WIFI 11G

	Freq						Limit Line		Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
q	2462.000	15.85	28.90	37.27	74.51	81.99	54.00	27.99	Average	
	2483.500	15.86	28.90	37.22	37.84	45.38	54.00	-8.62	Average	
	2483.790	15.86	28.90	37.22	37.99	45.53	54.00	-8.47	Average	



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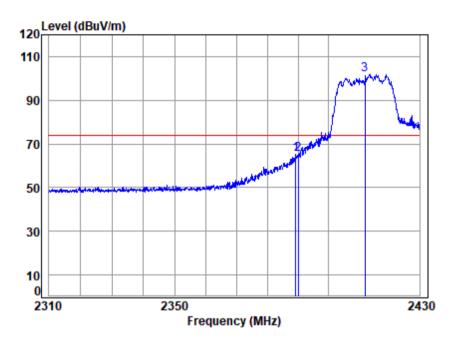


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Report No.: SZCR240700281804

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT Mode : 2412 Band edge

· 2 4G WTET 11N20

	Cable Ant Preamp Loss Factor Factor							
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2389.242								•
2390.000 n 2412.000								•



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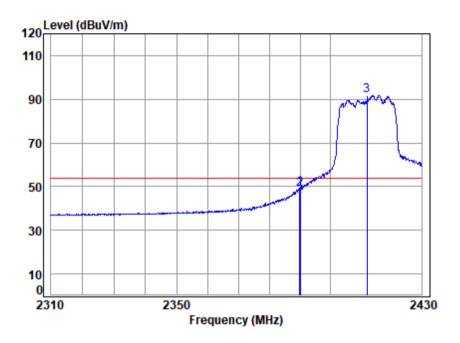


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700281804

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT Mode : 2412 Band edge

: 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.847	15.81	29.10	37.44	41.70	49.17	54.00	-4.83	Average
2	2390.000	15.81	29.10	37.44	41.28	48.75	54.00	-5.25	Average
3	q 2412.000	15.82	29.05	37.38	84.25	91.74	54.00	37.74	Average



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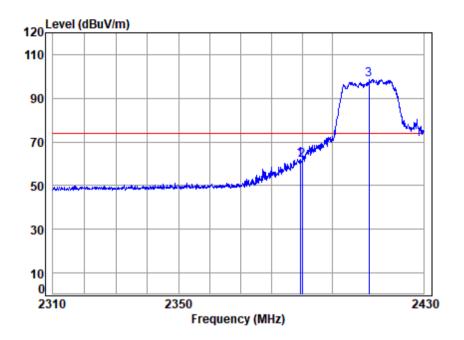


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Report No.: SZCR240700281804

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Test Mode: 08: Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT Mode : 2412 Band edge

	: 2.		1 11N2N	Preamp	Read		Limit	Over		
	Frea			Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.363	15.81	29.10	37.44	54.62	62.09	74.00	-11.91	Peak	
2	2390.000	15.81	29.10	37.44	54.33	61.80	74.00	-12.20	Peak	
3	p 2412.000	15.82	29.05	37.38	91.27	98.76	74.00	24.76	Peak	



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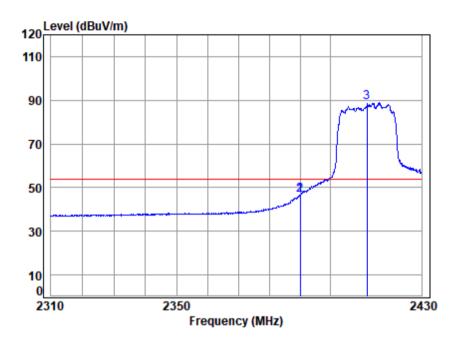


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Report No.: SZCR240700281804

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Test Mode: 08: Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT Mode : 2412 Band edge

: 2.4G WIFI 11N20

		Freq			Preamp Factor					Remark
	•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2389.968	15.81	29.10	37.44	39.11	46.58	54.00	-7.42	Average
2		2390.000	15.81	29.10	37.44	39.11	46.58	54.00	-7.42	Average
3	q	2412.000	15.82	29.05	37.38	81.26	88.75	54.00	34.75	Average



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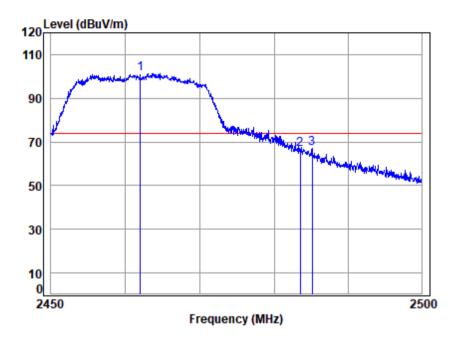


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Report No.: SZCR240700281804

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT Mode : 2462 Band edge

: 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2462.000	15.85	28.90	37.27	93.87	101.35	74.00	27.35	peak
2	2483.500	15.86	28.90	37.22	58.89	66.43	74.00	-7.57	peak
3	2485.145	15.86	28.90	37.21	59.65	67.20	74.00	-6.80	peak



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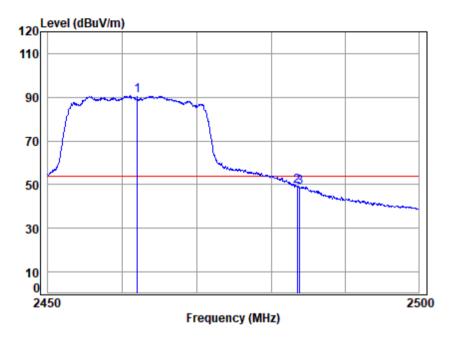


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT Mode : 2462 Band edge

: 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2462.000								_
2	2483.500	15.86	28.90	37.22	41.62	49.16	54.00	-4.84	Average
3	2483.840	15.86	28.90	37.22	41.36	48.90	54.00	-5.10	Average



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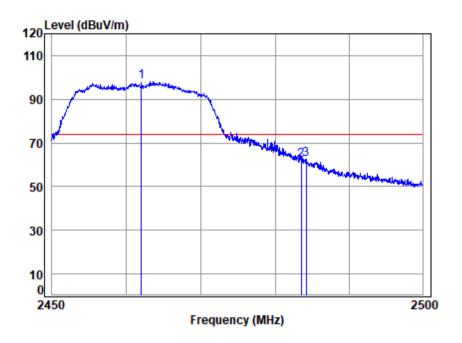


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Report No.: SZCR240700281804

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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT Mode : 2462 Band edge

: 2.4G WIFI 11N20

Freq			Preamp Factor					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
p 2462.000								
2483.500 2484.191								



1 2

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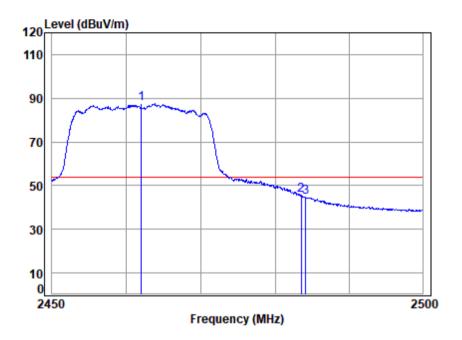


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Report No.: SZCR240700281804

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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT Mode : 2462 Band edge

: 2.4G WIFI 11N20

Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2462.000								
2483.500 2484.141								_



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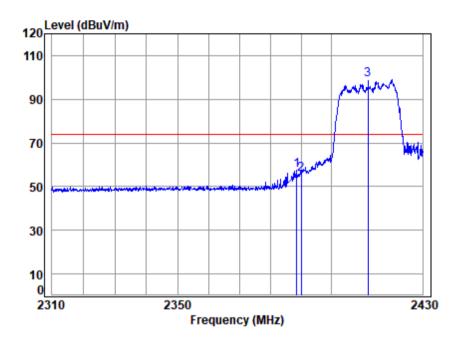


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Report No.: SZCR240700281804

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT Mode : 2412 Band edge

: 2.4G WIFI 11AX20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2388.516								•
2	2390.000	15.81	29.10	3/.44	48.0/	55.54	/4.00	-18.46	peak
3 p	2412.000	15.82	29.05	37.38	91.39	98.88	74.00	24.88	peak



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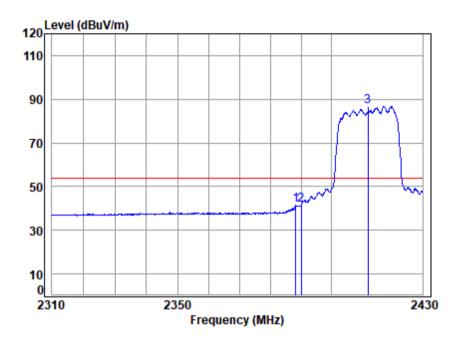


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Report No.: SZCR240700281804

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT Mode : 2412 Band edge

: 2.4G WIFI 11AX20

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.274	15.81	29.10	37.44	33.87	41.34	54.00	-12.66	Average
2	2390.000	15.81	29.10	37.44	33.85	41.32	54.00	-12.68	Average
3 q	2412.000	15.82	29.05	37.38	79.34	86.83	54.00	32.83	Average



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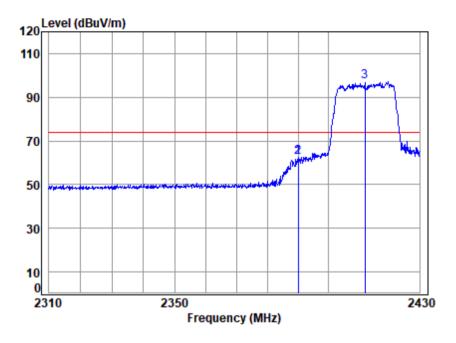


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Report No.: SZCR240700281804

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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT Mode : 2412 Band edge

: 2.4G WIFI 11AX20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	15.81	29.10	37.44	55.02	62.49	74.00	-11.51	Peak
2	2390.000	15.81	29.10	37.44	55.02	62.49	74.00	-11.51	Peak
3 p	2412.000	15.82	29.05	37.38	89.89	97.38	74.00	23.38	Peak



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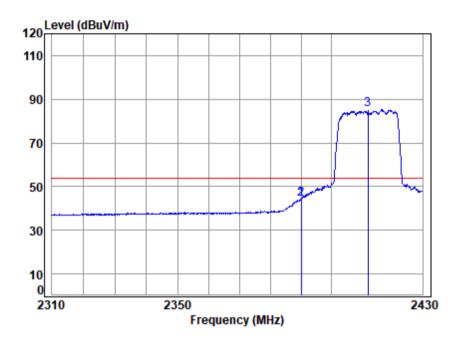


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Report No.: SZCR240700281804

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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT Mode : 2412 Band edge

: 2.4G WIFI 11AX20

							Limit		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	15.81	29.10	37.44	37.01	44.48	54.00	-9.52	Average
2	2390.000	15.81	29.10	37.44	37.01	44.48	54.00	-9.52	Average
3 q	2412.000	15.82	29.05	37.38	77.84	85.33	54.00	31.33	Average



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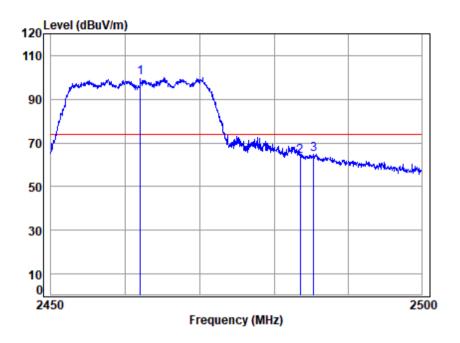


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT Mode : 2462 Band edge

: 2.4G WIFI 11AX20

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
. р	2462.000	15.85	28.90	37.27	92.46	99.94	74.00	25.94	peak	
2	2483.500	15.86	28.90	37.22	56.50	64.04	74.00	-9.96	peak	
3	2485.346	15.86	28.90	37.21	57.44	64.99	74.00	-9.01	peak	



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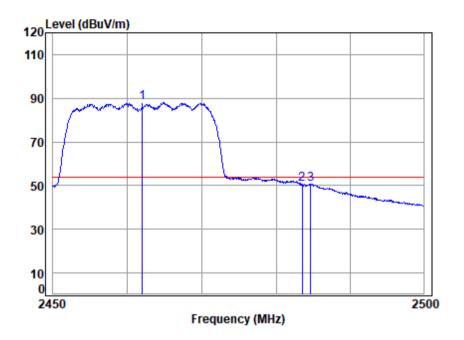


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT Mode : 2462 Band edge

: 2.4G WIFI 11AX20

	Freq						Limit Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	15.85	28.90	37.27	80.80	88.28	54.00	34.28	Average
2	2483.500	15.86	28.90	37.22	42.89	50.43	54.00	-3.57	Average
3	2484.643	15.86	28.90	37.21	43.25	50.80	54.00	-3.20	Average



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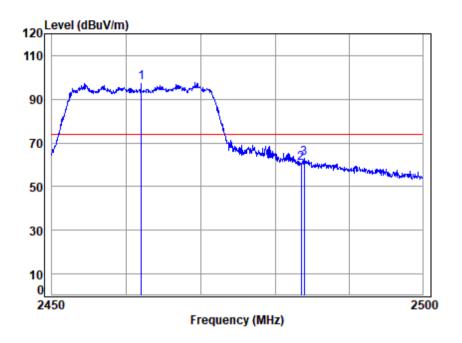


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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT Mode : 2462 Band edge

: 2.4G WIFI 11AX20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2462.000	15.85	28.90	37.27	90.18	97.66	74.00	23.66	Peak
2	2483.500	15.86	28.90	37.22	52.99	60.53	74.00	-13.47	Peak
3	2483.940	15.86	28.90	37.22	55.33	62.87	74.00	-11.13	Peak



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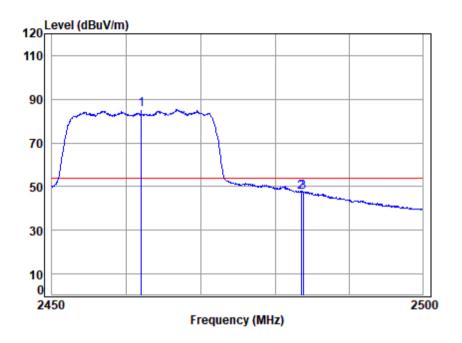


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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT Mode : 2462 Band edge

: 2.4G WIFI 11AX20

	Freq			Preamp Factor					Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
-	2462.000 2483.500								_
	2483.790								_



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7.3 Radiated Spurious Emissions Below 1GHz

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

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

Measurement Distance: 3m

Limit:

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

7.3.1 E.U.T. Operation

Operating Environment:

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

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	07	TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested 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 @ MCS0 is the worst case of IEEE 802.11ax(HEW20); Only the data of worst case is recorded in the report.
Final test	08	Charge + TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); Only the data of worst case is recorded in the report.



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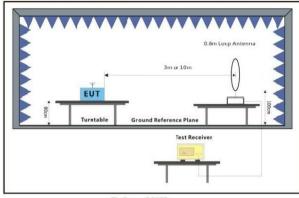
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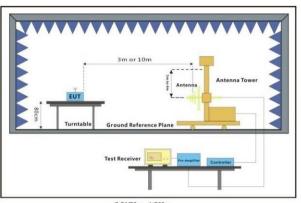


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7.3.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position
- 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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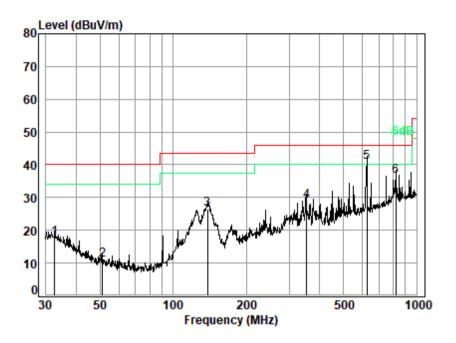


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL Job No. : 02818AT/02819AT

Test Mode: 08

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	32.63	20.02	0.67	27.78	24.82	17.73	40.00	-22.27	QP
2	51.30	12.56	0.84	27.73	25.18	10.85	40.00	-29.15	QP
3	138.39	11.66	1.40	27.43	40.89	26.52	43.50	-16.98	QP
4	352.94	20.01	2.37	26.97	33.49	28.90	46.00	-17.10	QP
5 q	625.08	25.06	3.29	27.91	40.25	40.69	46.00	-5.31	QP
6	821.71	26.56	3.89	27.32	33.24	36.37	46.00	-9.63	OP



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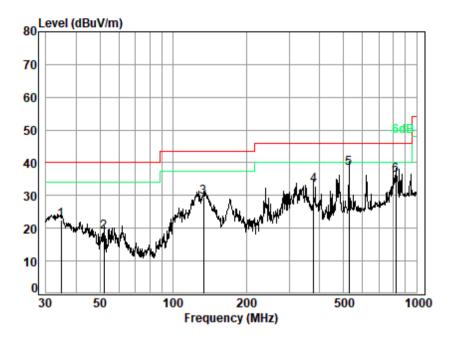


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Test Mode: 08; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

Job No. : 02818AT/02819AT

Test Mode: 08

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-									
	MHZ	dB/m	ав	dВ	dBuV	dBuV/m	dBuV/m	dB	
1	34.64	19.08	0.69	27.78	30.45	22.44	40.00	-17.56	QP
2	52.03	12.46	0.85	27.73	33.19	18.77	40.00	-21.23	QP
3	133.62	11.25	1.37	27.45	44.30	29.47	43.50	-14.03	QP
4	377.26	20.80	2.46	27.06	36.81	33.01	46.00	-12.99	QP
5 q	528.25	23.26	2.98	27.68	39.82	38.38	46.00	-7.62	QP
6	821.71	26.56	3.89	27.32	33.18	36.31	46.00	-9.69	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: 68.5 % RH Atmospheric Pressure: 1020 mbar Temperature: 22.7 °C

7.4.2 Test Mode Description

7.4.2 TESLIV	ioac Dc.	oon palon
Pre-scan / Final test	Mode Code	Description
Pre-scan	07	TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested 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 @ MCS0 is the worst case of IEEE 802.11ax(HEW20); Only the data of worst case is recorded in the report.
Final test	08	Charge + TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); Only the data of worst case is recorded in the report.



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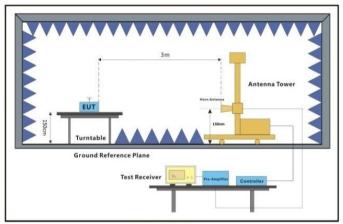


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7.4.3 Test Setup Diagram



Above 1GHz



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7.4.4 Measurement Procedure and Data

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

Remark:

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



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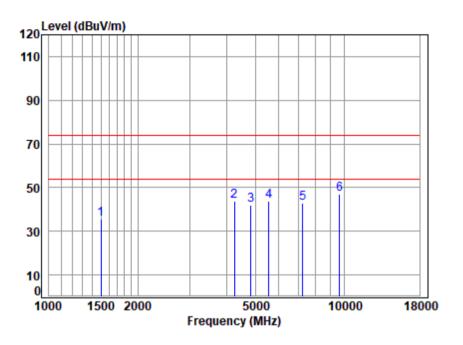


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT

Mode : 2412 TX RSE

: 2.4G WIFI 11B

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1503.119	4.58	26.81	61.66	66.02	35.75	74.00	-38.25	peak
2		4254.921	8.19	33.82	61.41	63.18	43.78	74.00	-30.22	peak
3		4824.000	8.01	34.40	61.90	61.64	42.15	74.00	-31.85	peak
4		5551.069	9.32	34.70	62.45	62.03	43.60	74.00	-30.40	peak
5		7236.000	9.29	35.70	62.03	59.94	42.90	74.00	-31.10	peak
6	р	9648.000	11.38	37.50	62.16	60.30	47.02	74.00	-26.98	peak



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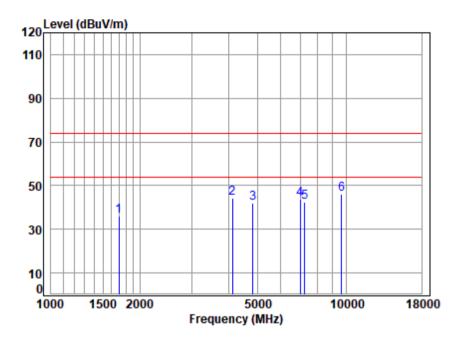


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Test Mode: 08: Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT

Mode : 2412 TX RSE

: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1697.129	4.99	26.21	61.71	66.56	36.05	74.00	-37.95	peak	
2	4121.768	8.38	33.35	61.29	63.78	44.22	74.00	-29.78	peak	
3	4824.000	8.01	34.40	61.90	61.31	41.82	74.00	-32.18	peak	
4	6995.172	9.53	35.71	62.16	60.56	43.64	74.00	-30.36	peak	
5	7236.000	9.29	35.70	62.03	59.44	42.40	74.00	-31.60	peak	
6	p 9648.000	11.38	37.50	62.16	59.27	45.99	74.00	-28.01	peak	



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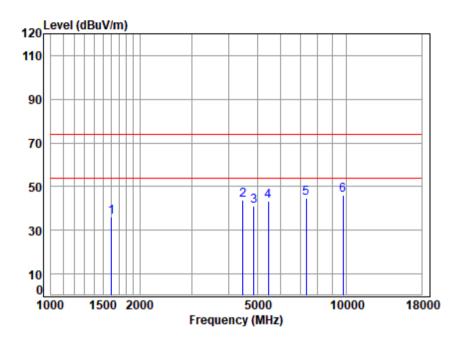


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT

Mode : 2437 TX RSE

: 2.4G WIFI 11B

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1601.804	4.79	26.78	61.69	66.14	36.02	74.00	-37.98	peak
2		4469.214	7.90	33.97	61.60	63.41	43.68	74.00	-30.32	peak
3		4874.000	8.03	34.60	61.94	60.53	41.22	74.00	-32.78	peak
4		5439.885	9.16	34.68	62.37	61.91	43.38	74.00	-30.62	peak
5		7311.000	9.21	35.70	61.99	61.64	44.56	74.00	-29.44	peak
6	р	9748.000	11.32	37.40	62.19	59.43	45.96	74.00	-28.04	peak



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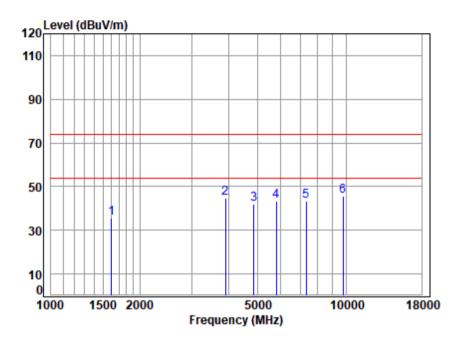


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Test Mode: 08; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel: middle



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT

Mode : 2437 TX RSE

: 2.4G WIFI 11B

	Freq			Preamp Factor			Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1606.441	4.80	26.74	61.69	65.70	35.55	74.00	-38.45	peak
2	3901.516	8.25	33.79	61.19	63.64	44.49	74.00	-29.51	peak
3	4874.000	8.03	34.60	61.94	61.32	42.01	74.00	-31.99	peak
4	5797.032	9.43	34.29	62.62	62.18	43.28	74.00	-30.72	peak
5	7311.000	9.21	35.70	61.99	60.30	43.22	74.00	-30.78	peak
6 p	9748.000	11.32	37.40	62.19	59.16	45.69	74.00	-28.31	peak



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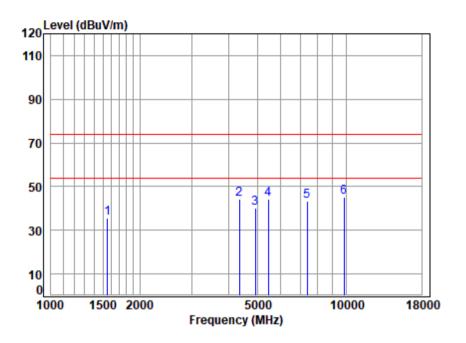


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT

Mode : 2462 TX RSE

: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1556.169	4.69	26.98	61.67	65.53	35.53	74.00	-38.47	peak
2	4354.454	8.06	34.44	61.50	63.07	44.07	74.00	-29.93	peak
3	4924.000	8.05	34.65	61.98	59.57	40.29	74.00	-33.71	peak
4	5439.885	9.16	34.68	62.37	62.83	44.30	74.00	-29.70	peak
5	7386.000	9.14	35.77	61.95	60.18	43.14	74.00	-30.86	peak
6	p 9848.000	11.27	37.20	62.22	58.95	45.20	74.00	-28.80	peak



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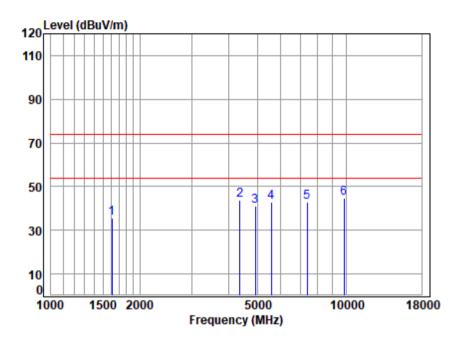


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Test Mode: 08; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT

Mode : 2462 TX RSE

: 2.4G WIFI 11B

	Freq			Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1611.091	4.81	26.69	61.69	65.93	35.74	74.00	-38.26	peak
2	4367.058	8.04	34.54	61.51	62.56	43.63	74.00	-30.37	peak
3	4924.000	8.05	34.65	61.98	60.12	40.84	74.00	-33.16	peak
4	5583.251	9.34	34.70	62.47	61.14	42.71	74.00	-31.29	peak
5	7386.000	9.14	35.77	61.95	60.09	43.05	74.00	-30.95	peak
6	p 9848.000	11.27	37.20	62.22	58.53	44.78	74.00	-29.22	peak



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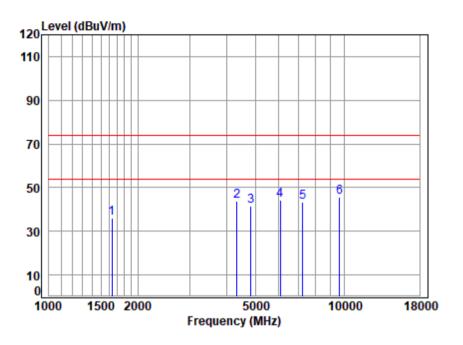


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Report No.: SZCR240700281804

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT

Mode : 2412 TX RSE

: 2.4G WIFI 11G

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1634.543	4.86	26.45	61.70	66.43	36.04	74.00	-37.96	peak
2		4329.354	8.09	34.23	61.48	62.96	43.80	74.00	-30.20	peak
3		4824.000	8.01	34.40	61.90	61.20	41.71	74.00	-32.29	peak
4		6071.417	9.46	35.04	62.70	62.50	44.30	74.00	-29.70	peak
5		7236.000	9.29	35.70	62.03	60.18	43.14	74.00	-30.86	peak
6	р	9648.000	11.38	37.50	62.16	58.89	45.61	74.00	-28.39	peak



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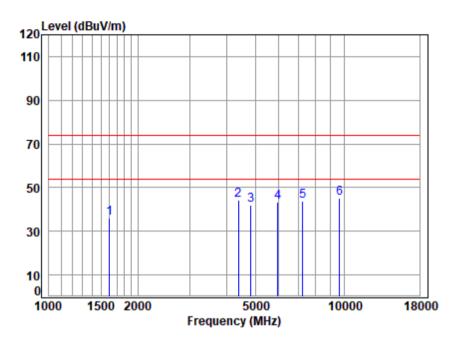


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700281804

Page: 65 of 161

Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT

Mode : 2412 TX RSE

: 2.4G WIFI 11G

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1601.804	4.79	26.78	61.69	66.06	35.94	74.00	-38.06	peak
2		4379.699	8.02	34.64	61.52	63.05	44.19	74.00	-29.81	peak
3		4824.000	8.01	34.40	61.90	61.34	41.85	74.00	-32.15	peak
4		5949.811	9.50	34.70	62.72	62.03	43.51	74.00	-30.49	peak
5		7236.000	9.29	35.70	62.03	60.97	43.93	74.00	-30.07	peak
6	р	9648.000	11.38	37.50	62.16	58.55	45.27	74.00	-28.73	peak



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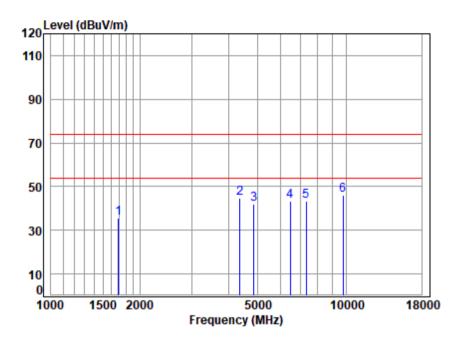


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700281804

Page: 66 of 161

Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT

Mode : 2437 TX RSE

: 2.4G WIFI 11G

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1692.231	4.98	26.22	61.71	66.02	35.51	74.00	-38.49	peak
2		4367.058	8.04	34.54	61.51	63.55	44.62	74.00	-29.38	peak
3		4874.000	8.03	34.60	61.94	61.31	42.00	74.00	-32.00	peak
4		6470.026	9.16	35.54	62.46	61.00	43.24	74.00	-30.76	peak
5		7311.000	9.21	35.70	61.99	60.22	43.14	74.00	-30.86	peak
6	р	9748.000	11.32	37.40	62.19	59.75	46.28	74.00	-27.72	peak



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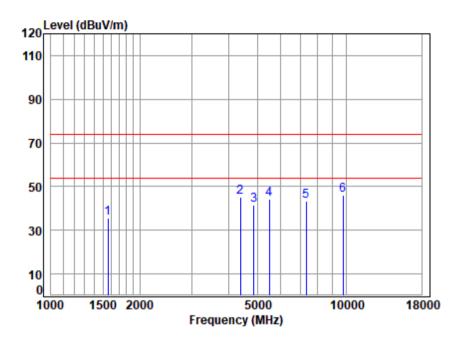


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700281804

Page: 67 of 161

Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel: middle



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT

Mode : 2437 TX RSE

: 2.4G WIFI 11G

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1560.673	4.70	26.96	61.68	65.67	35.65	74.00	-38.35	peak
2		4379.699	8.02	34.64	61.52	63.96	45.10	74.00	-28.90	peak
3		4874.000	8.03	34.60	61.94	60.98	41.67	74.00	-32.33	peak
4		5487.260	9.27	34.55	62.40	62.89	44.31	74.00	-29.69	peak
5		7311.000	9.21	35.70	61.99	60.58	43.50	74.00	-30.50	peak
6	р	9748.000	11.32	37.40	62.19	59.53	46.06	74.00	-27.94	peak



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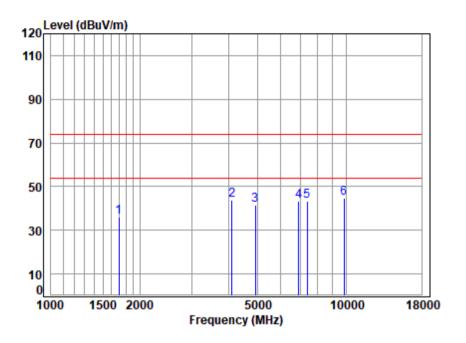


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700281804

Page: 68 of 161

Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT

Mode : 2462 TX RSE

: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	5.00	26.22	61.72	66.33	35.83	74.00	-38.17	peak
2	4109.872	8.40	33.16	61.28	63.62	43.90	74.00	-30.10	peak
3	4924.000	8.05	34.65	61.98	60.61	41.33	74.00	-32.67	peak
4	6914.763	9.47	35.66	62.20	60.50	43.43	74.00	-30.57	peak
5	7386.000	9.14	35.77	61.95	60.26	43.22	74.00	-30.78	peak
6 p	9848.000	11.27	37.20	62.22	58.64	44.89	74.00	-29.11	peak



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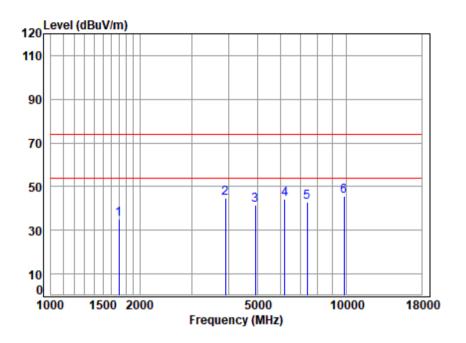


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700281804

Page: 69 of 161

Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT

Mode : 2462 TX RSE

: 2.4G WIFI 11G

		. 2.	TO WILL	1 110						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1702.042	5.00	26.22	61.72	65.70	35.20	74.00	-38.80	peak
2		3901.516	8.25	33.79	61.19	64.05	44.90	74.00	-29.10	peak
3		4924.000	8.05	34.65	61.98	61.00	41.72	74.00	-32.28	peak
4		6195.508	9.37	34.72	62.63	62.69	44.15	74.00	-29.85	peak
5		7386.000	9.14	35.77	61.95	60.00	42.96	74.00	-31.04	peak
6	р	9848.000	11.27	37.20	62.22	59.58	45.83	74.00	-28.17	peak



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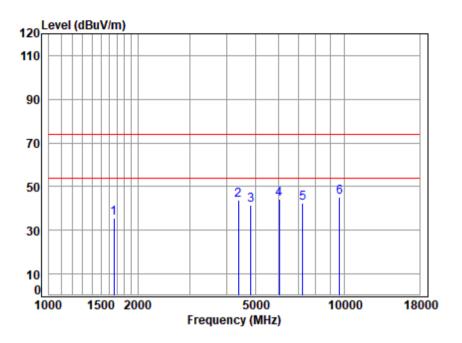


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700281804

Page: 70 of 161

Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT

Mode : 2412 TX RSE

: 2.4G WIFI 11N20

				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1663.137	4.92	26.27	61.70	66.31	35.80	74.00	-38.20	peak
2	4392.376	8.00	34.74	61.53	62.59	43.80	74.00	-30.20	peak
3	4824.000	8.01	34.40	61.90	60.94	41.45	74.00	-32.55	peak
4	6036.421	9.49	34.97	62.73	62.33	44.06	74.00	-29.94	peak
5	7236.000	9.29	35.70	62.03	59.43	42.39	74.00	-31.61	peak
6	p 9648.000	11.38	37.50	62.16	58.50	45.22	74.00	-28.78	peak



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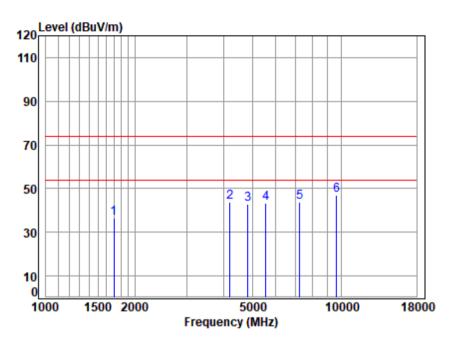


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700281804

Page: 71 of 161

Test Mode: 08: Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT

Mode : 2412 TX RSE

: 2.4G WIFI 11N20

					_					
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1697.129	4.99	26.21	61.71	66.89	36.38	74.00	-37.62	peak
2		4193.872	8.28	33.80	61.35	63.17	43.90	74.00	-30.10	peak
3		4824.000	8.01	34.40	61.90	62.30	42.81	74.00	-31.19	peak
4		5567.137	9.33	34.70	62.46	61.63	43.20	74.00	-30.80	peak
5		7236.000	9.29	35.70	62.03	60.77	43.73	74.00	-30.27	peak
6	р	9648.000	11.38	37.50	62.16	60.50	47.22	74.00	-26.78	peak



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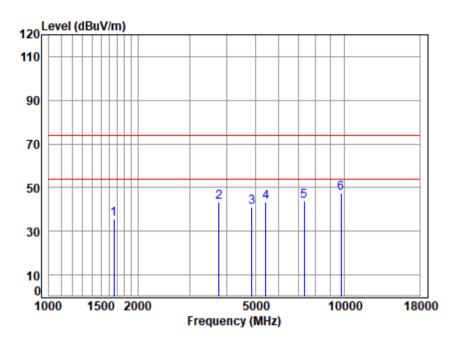


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700281804

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT

Mode : 2437 TX RSE

: 2.4G WIFI 11N20

					_					
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1663.137	4.92	26.27	61.70	66.06	35.55	74.00	-38.45	peak
2		3768.513	7.81	32.71	61.22	63.96	43.26	74.00	-30.74	peak
3		4874.000	8.03	34.60	61.94	60.19	40.88	74.00	-33.12	peak
4		5424.184	9.12	34.65	62.36	61.72	43.13	74.00	-30.87	peak
5		7311.000	9.21	35.70	61.99	60.76	43.68	74.00	-30.32	peak
6	р	9748.000	11.32	37.40	62.19	60.84	47.37	74.00	-26.63	peak



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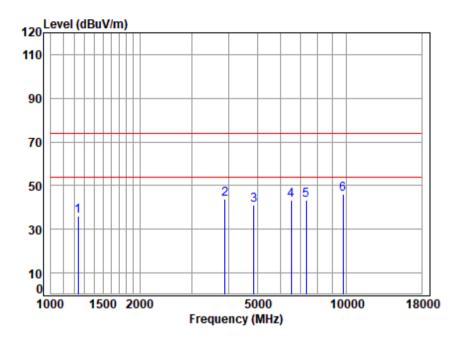


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700281804

Page: 73 of 161

Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: middle



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT

Mode : 2437 TX RSE

: 2.4G WIFI 11N20

	. 21.10 1121 221120								
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			-				-		
1	1234.909	4.56	24.89	61.57	67.96	35.84	74.00	-38.16	peak
2	3890.255	8.21	33.66	61.19	63.02	43.70	74.00	-30.30	peak
3	4874.000	8.03	34.60	61.94	60.28	40.97	74.00	-33.03	peak
4	6526.373	9.16	35.55	62.43	61.06	43.34	74.00	-30.66	peak
5	7311.000	9.21	35.70	61.99	60.53	43.45	74.00	-30.55	peak
6 p	9748.000	11.32	37.40	62.19	59.33	45.86	74.00	-28.14	peak



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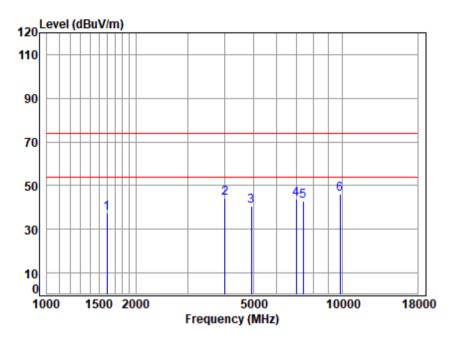


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Report No.: SZCR240700281804

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT Mode : 2462 TX RSE

: 2.4G WIFI 11N20

					_					
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1597.181	4.78	26.81	61.69	67.40	37.30	74.00	-36.70	peak
2		4004.339	8.55	32.96	61.17	64.06	44.40	74.00	-29.60	peak
3		4924.000	8.05	34.65	61.98	59.69	40.41	74.00	-33.59	peak
4		6995.172	9.53	35.71	62.16	60.79	43.87	74.00	-30.13	peak
5		7386.000	9.14	35.77	61.95	60.14	43.10	74.00	-30.90	peak
6	р	9848.000	11.27	37.20	62.22	59.67	45.92	74.00	-28.08	peak



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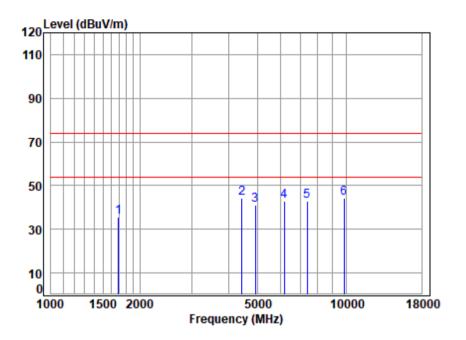


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700281804

Page: 75 of 161

Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT

Mode : 2462 TX RSE

: 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1692.231	4.98	26.22	61.71	66.14	35.63	74.00	-38.37	peak
2	4443.453	7.94	34.28	61.58	63.61	44.25	74.00	-29.75	peak
3	4924.000	8.05	34.65	61.98	60.47	41.19	74.00	-32.81	peak
4	6177.627	9.38	34.79	62.64	61.50	43.03	74.00	-30.97	peak
5	7386.000	9.14	35.77	61.95	59.83	42.79	74.00	-31.21	peak
6	p 9848.000	11.27	37.20	62.22	58.02	44.27	74.00	-29.73	peak



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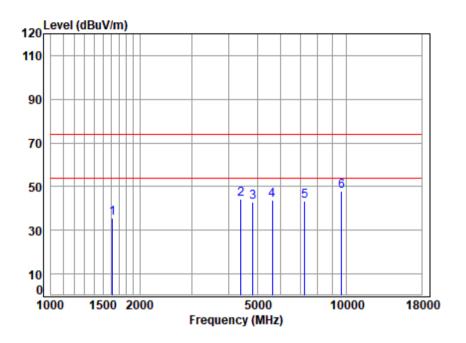


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT

Mode : 2412 TX RSE

: 2.4G WIFI 11AX20

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1615.754	4.82	26.64	61.69	65.86	35.63	74.00	-38.37	peak
2		4405.090	7.99	34.74	61.55	63.00	44.18	74.00	-29.82	peak
3		4824.000	8.01	34.40	61.90	62.38	42.89	74.00	-31.11	peak
4		5631.875	9.36	34.51	62.50	62.39	43.76	74.00	-30.24	peak
5		7236.000	9.29	35.70	62.03	60.22	43.18	74.00	-30.82	peak
6	р	9648.000	11.38	37.50	62.16	61.16	47.88	74.00	-26.12	peak



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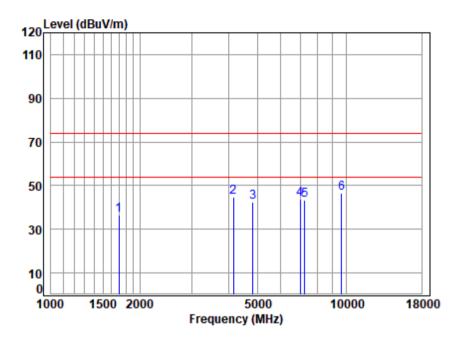


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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT

Mode : 2412 TX RSE

: 2.4G WIFI 11AX20

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1702.042	5.00	26.22	61.72	67.11	36.61	74.00	-37.39	peak
2		4157.664	8.33	33.80	61.32	63.81	44.62	74.00	-29.38	peak
3		4824.000	8.01	34.40	61.90	61.90	42.41	74.00	-31.59	peak
4		6995.172	9.53	35.71	62.16	60.72	43.80	74.00	-30.20	peak
5		7236.000	9.29	35.70	62.03	60.24	43.20	74.00	-30.80	peak
6	р	9648.000	11.38	37.50	62.16	59.95	46.67	74.00	-27.33	peak



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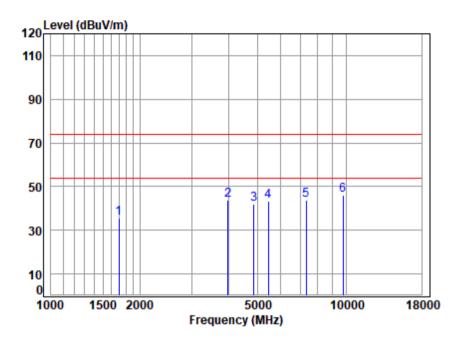


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT

Mode : 2437 TX RSE

: 2.4G WIFI 11AX20

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1697.129	4.99	26.21	61.71	66.31	35.80	74.00	-38.20	peak	
2	3981.257	8.50	33.19	61.17	63.36	43.88	74.00	-30.12	peak	
3	4874.000								•	
4	5455.631								•	
5									•	
6	9748.000								•	



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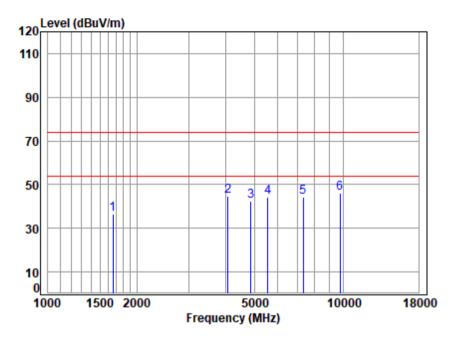


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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel: middle



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT

Mode : 2437 TX RSE

: 2.4G WIFI 11AX20

			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		1663.137	4.92	26.27	61.70	66.87	36.36	74.00	-37.64	peak	
2		4074.388	8.45	32.74	61.24	64.60	44.55	74.00	-29.45	peak	
3		4874.000								•	
4		5551.069								•	
5										•	
6	р	9748.000								•	



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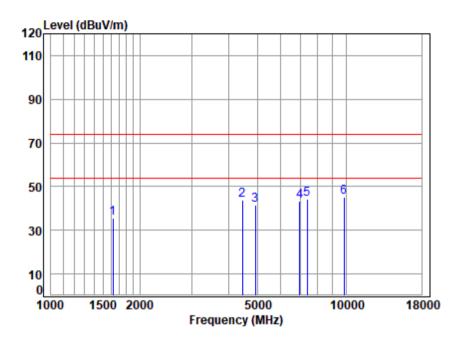


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 02818AT\02819AT

Mode : 2462 TX RSE

: 2.4G WIFI 11AX20

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1625.121	4.84	26.55	61.69	65.88	35.58	74.00	-38.42	peak
2		4456.315	7.92	34.12	61.59	63.13	43.58	74.00	-30.42	peak
3		4924.000	8.05	34.65	61.98	60.74	41.46	74.00	-32.54	peak
4		6954.852	9.50	35.79	62.18	60.32	43.43	74.00	-30.57	peak
5		7386.000	9.14	35.77	61.95	61.14	44.10	74.00	-29.90	peak
6	р	9848.000	11.27	37.20	62.22	58.88	45.13	74.00	-28.87	peak



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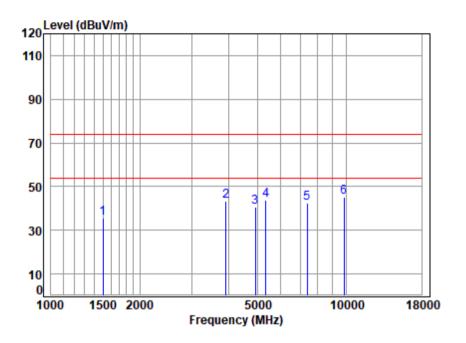


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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 02818AT\02819AT

Mode : 2462 TX RSE

: 2.4G WIFI 11AX20

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
								-		
1		1503.119	4.58	26.81	61.66	65.86	35.59	74.00	-38.41	peak
2		3912.809	8.28	33.72	61.19	62.62	43.43	74.00	-30.57	peak
3		4924.000	8.05	34.65	61.98	59.85	40.57	74.00	-33.43	peak
4		5346.358	8.94	34.39	62.30	62.67	43.70	74.00	-30.30	peak
5		7386.000	9.14	35.77	61.95	59.59	42.55	74.00	-31.45	peak
6	р	9848.000	11.27	37.20	62.22	59.00	45.25	74.00	-28.75	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

Limit:

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Atmospheric Pressure: 1020 mbar Humidity: 45.1 % RH

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested 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 @ MCS0 is the worst case of IEEE 802.11ax(HEW20); Only the data of worst case is recorded in the report.



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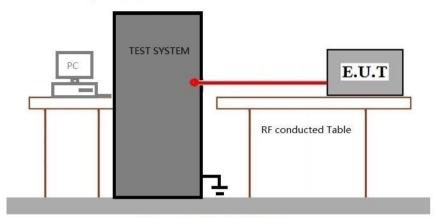


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7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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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

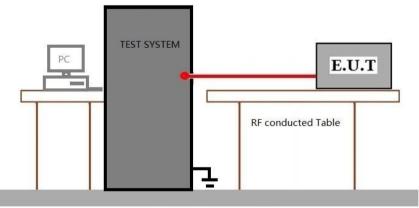
Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 24.7 °C Humidity: 45.1 % RH

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested 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 @ MCS0 is the worst case of IEEE 802.11ax(HEW20); Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 Power Spectrum Density

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

Limit:

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

7.7.1 E.U.T. Operation

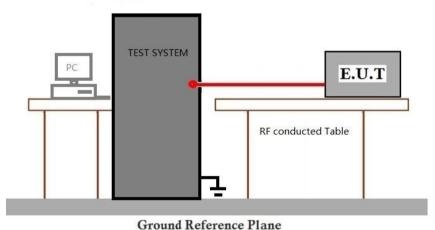
Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 24.7 °C Humidity: 45.1 % RH

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested 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 @ MCS0 is the worst case of IEEE 802.11ax(HEW20); 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

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 45.1 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested 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 @ MCS0 is the worst case of IEEE 802.11ax(HEW20); Only the data of worst case is recorded in the report.



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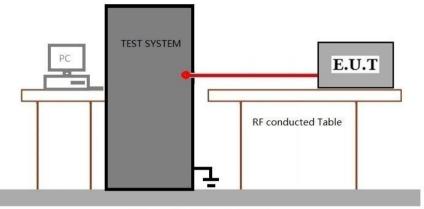


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7.8.3 Test Setup Diagram



Ground Reference Plane

7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.9 Conducted Spurious Emissions

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

Limit:

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 45.1 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested 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 @ MCS0 is the worst case of IEEE 802.11ax(HEW20); Only the data of worst case is recorded in the report.



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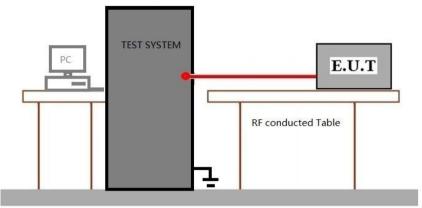


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7.9.3 Test Setup Diagram



Ground Reference Plane

7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Test Setup Photo 8

Refer to Setup Photo for SZCR2407002818AT

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2407002818AT



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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant0

Ant0									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b		2412	/	/	8.606	8.620	99.84	0.01	0.04
	SISO	2437	/	/	8.607	8.620	99.85	0.01	0.04
		2462	/	/	8.606	8.620	99.84	0.01	0.04
	SISO	2412	/	/	1.428	1.526	93.58	0.29	0.04
802.11g		2437	/	/	1.428	1.447	98.69	0.06	0.07
		2462	/	/	1.429	1.447	98.76	0.05	0.07
802.11n (HT20)	MIMO	2412	/	/	0.692	0.790	87.59	0.58	0.03
		2437	/	/	0.692	0.711	97.33	0.12	0.07
		2462	/	/	0.693	0.711	97.47	0.11	0.06
802.11ax (HEW20)	MIMO	2412	RU242	Left	0.114	0.132	86.36	0.64	0.24
		2437	RU242	Left	0.113	0.131	86.26	0.64	0.07
		2462	RU242	Left	0.113	0.132	85.61	0.67	0.09



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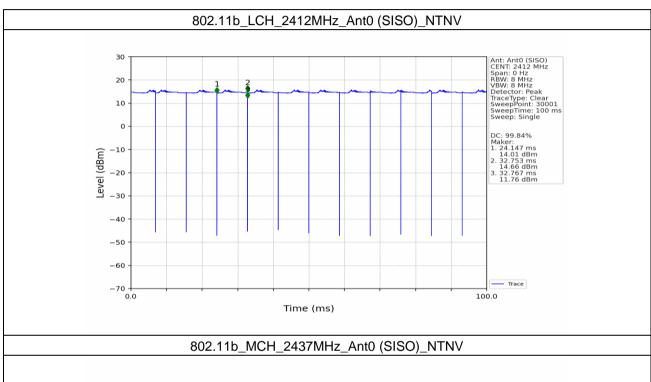
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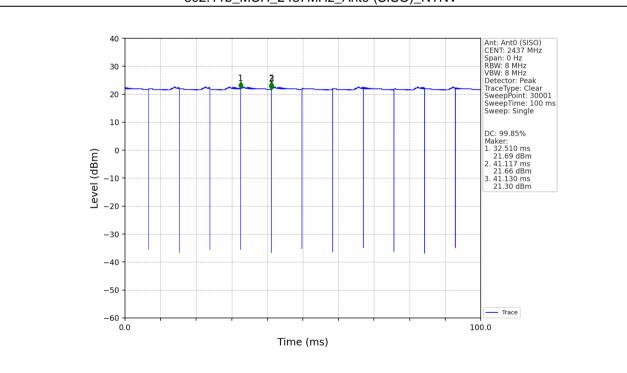
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1.2 Test Graph

1.2.1 Ant0







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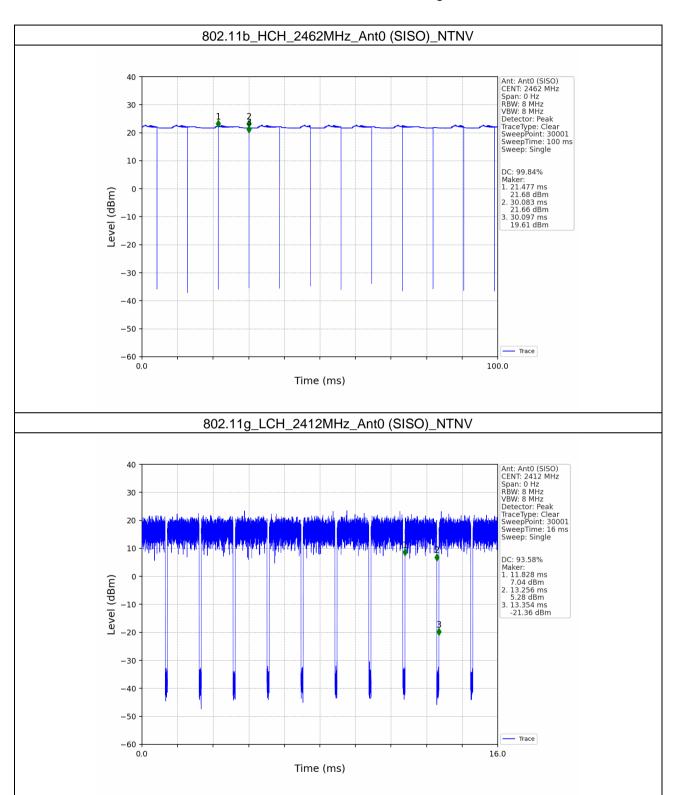
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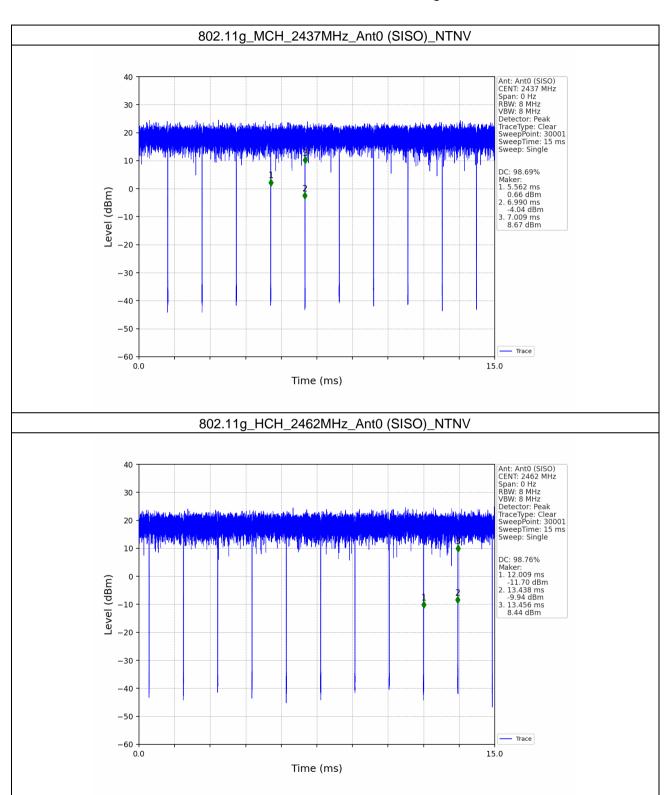
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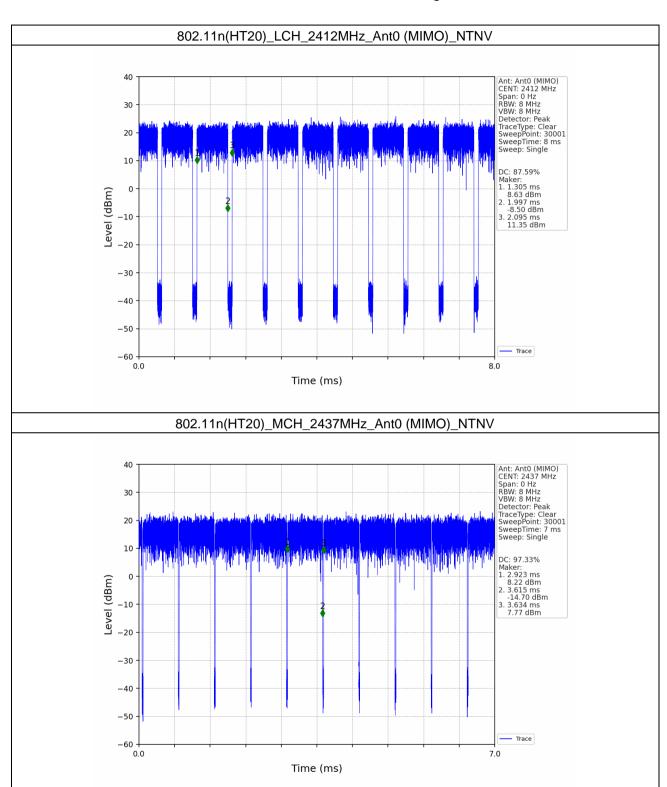
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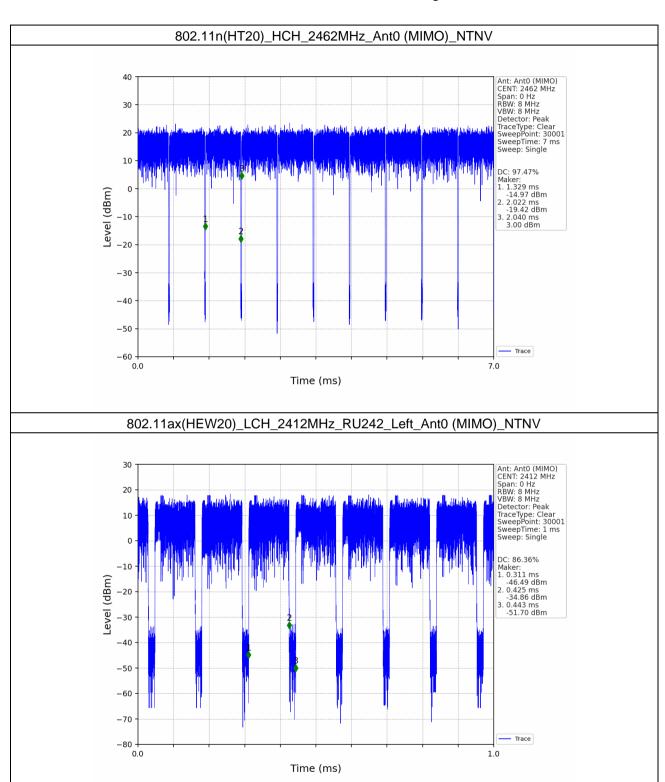
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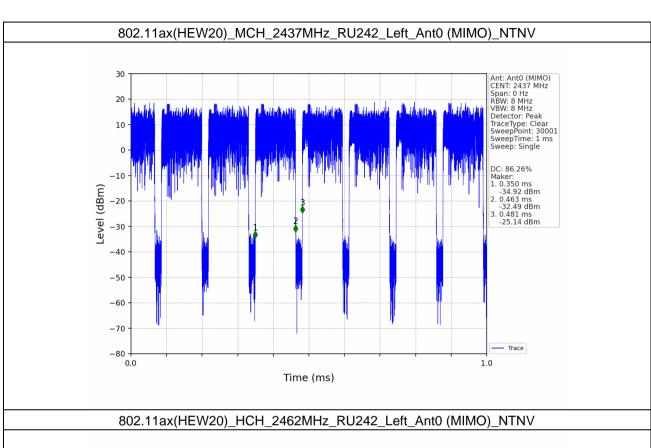
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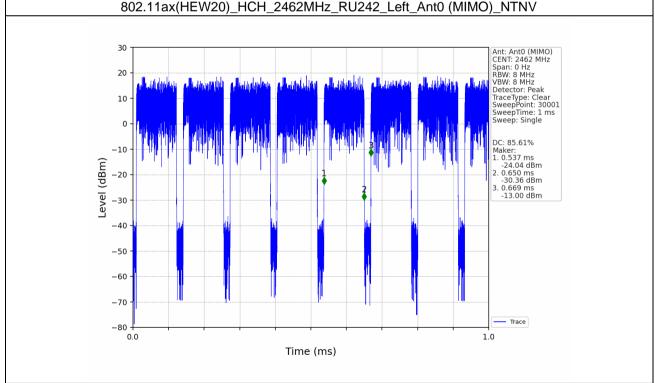


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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied E	\/ordiot	
						Result	Limit	Verdict
		2412	/	/	0	11.667	/	Pass
802.11b	SISO	2437	/	/	0	11.708	/	Pass
		2462	/	/	0	11.670	/	Pass
	SISO	2412	/	/	0	19.462	/	Pass
802.11g		2437	/	/	0	19.134	/	Pass
		2462	/	/	0	18.695	/	Pass
802.11n (HT20)	MIMO	2412	/	/	0	22.986	/	Pass
		2437	/	/	0	19.425	/	Pass
		2462	/	/	0	19.254	/	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	0	19.430	/	Pass
		2437	RU242	Left	0	19.458	/	Pass
		2462	RU242	Left	0	19.386	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Vordint
		(MHz)				Result	Limit	Verdict
	SISO	2412	/	/	0	8.053	>=0.5	Pass
802.11b		2437	/	/	0	7.593	>=0.5	Pass
		2462	/	/	0	7.564	>=0.5	Pass
	SISO	2412	/	/	0	16.347	>=0.5	Pass
802.11g		2437	/	/	0	16.349	>=0.5	Pass
		2462	/	/	0	16.378	>=0.5	Pass
000.44	МІМО	2412	/	/	0	17.353	>=0.5	Pass
802.11n (HT20)		2437	/	/	0	17.589	>=0.5	Pass
		2462	/	/	0	17.374	>=0.5	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	0	19.154	>=0.5	Pass
		2437	RU242	Left	0	19.133	>=0.5	Pass
		2462	RU242	Left	0	19.122	>=0.5	Pass



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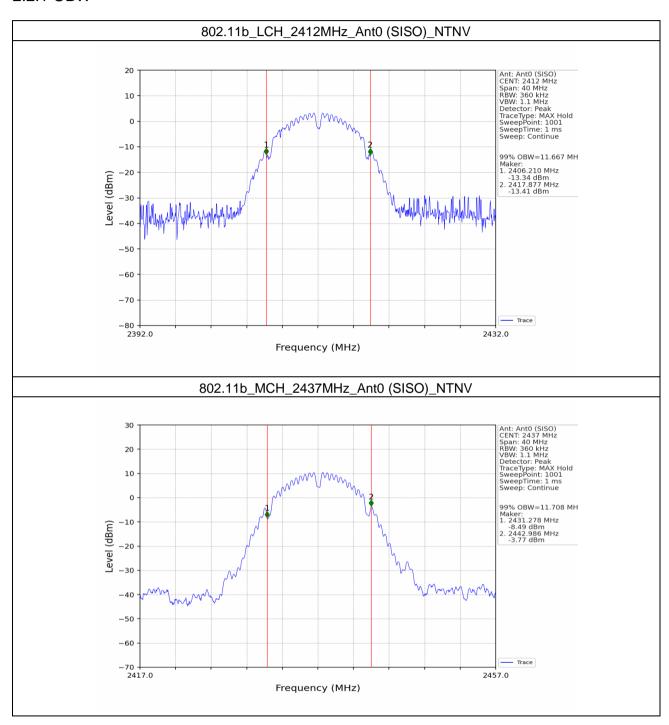
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2.2 Test Graph

2.2.1 OBW





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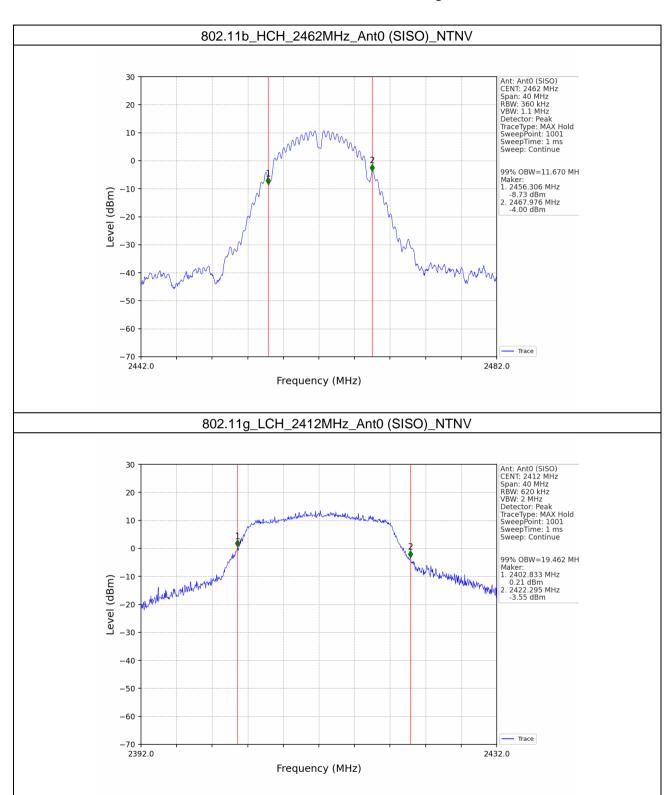
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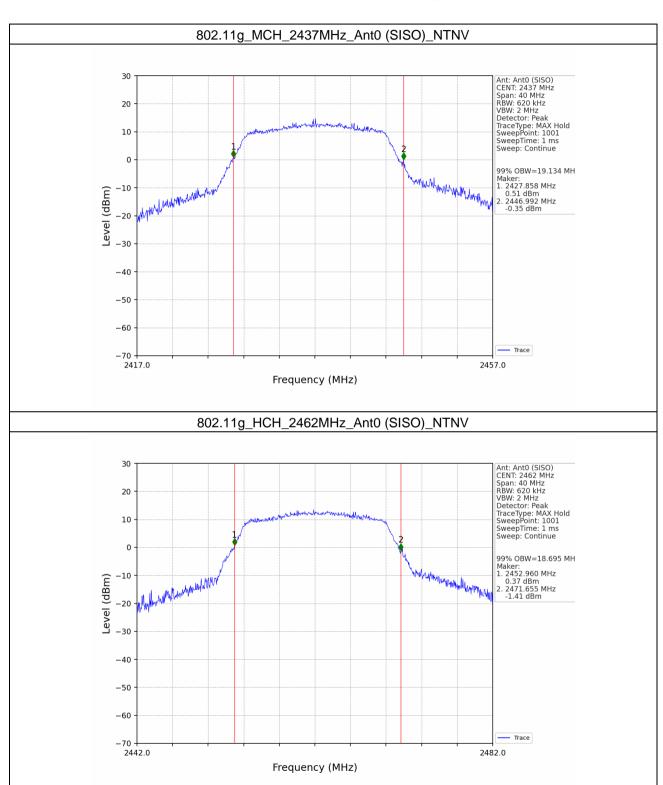
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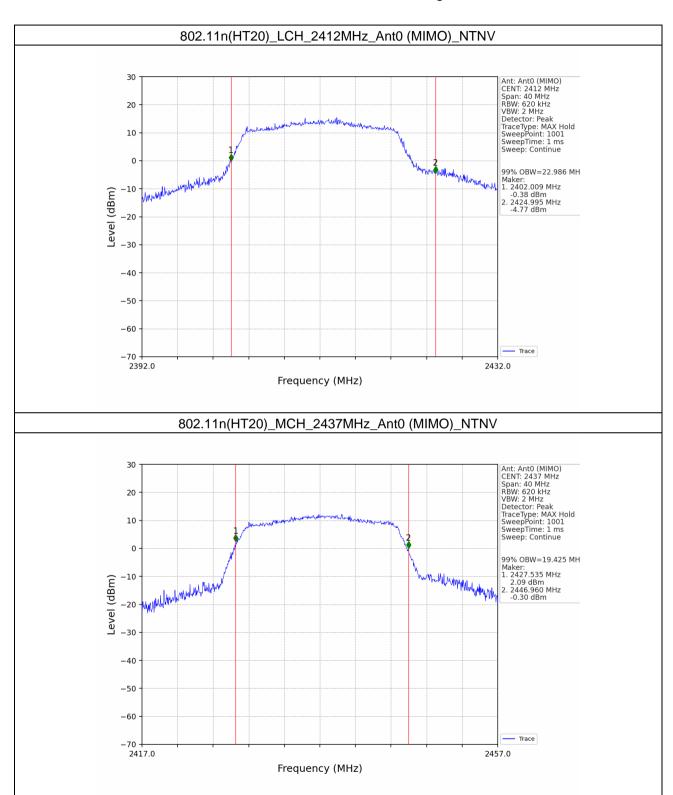
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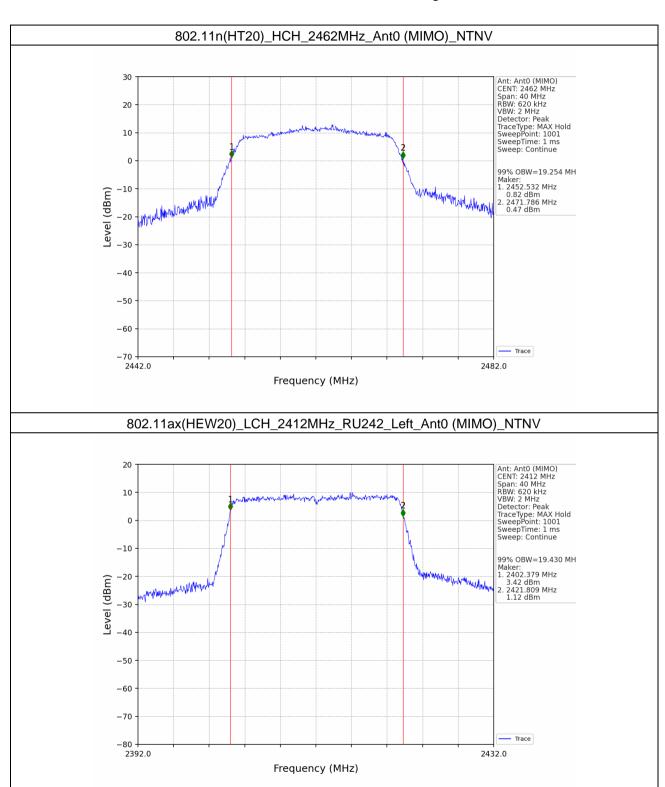
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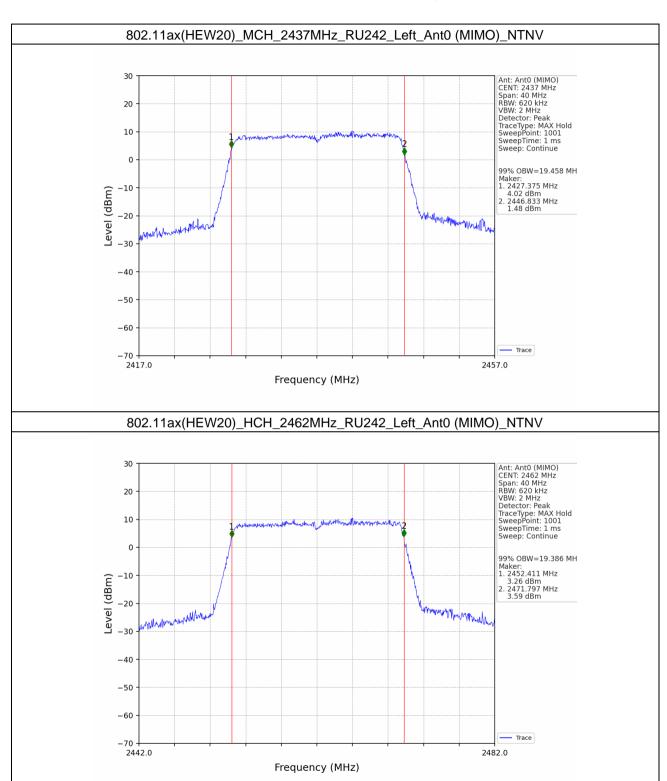
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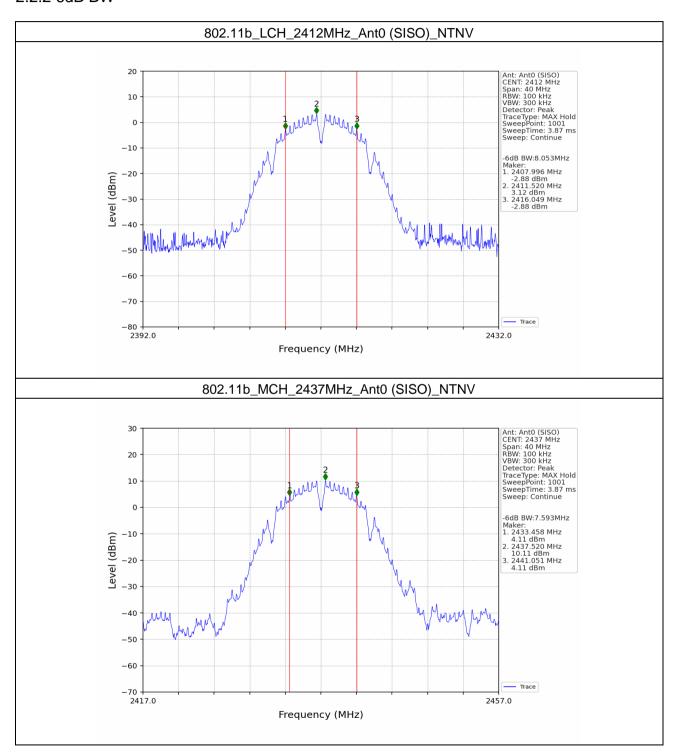


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2.2.2 6dB BW





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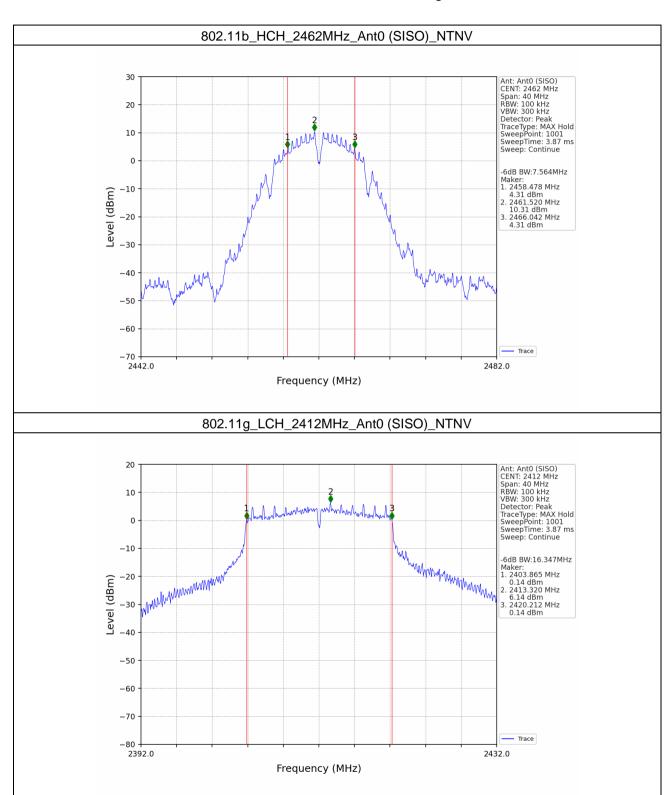
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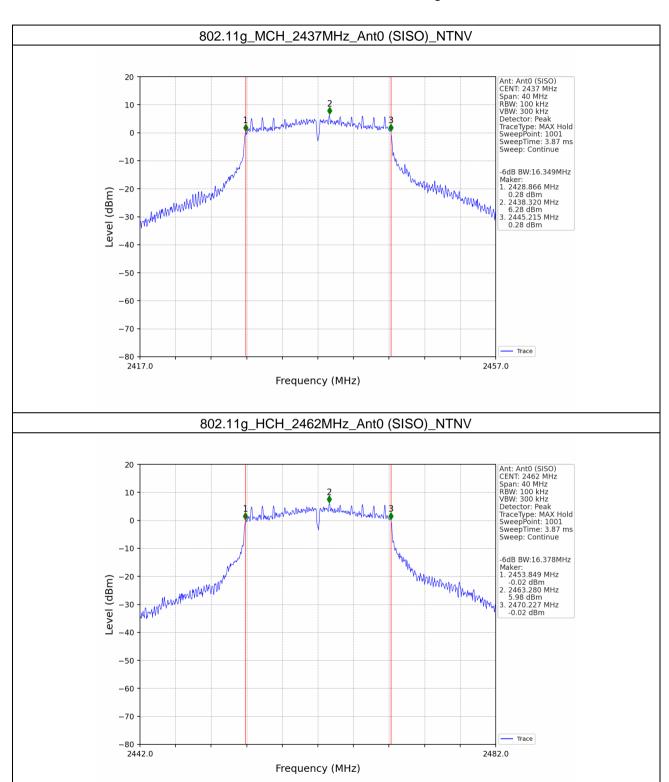
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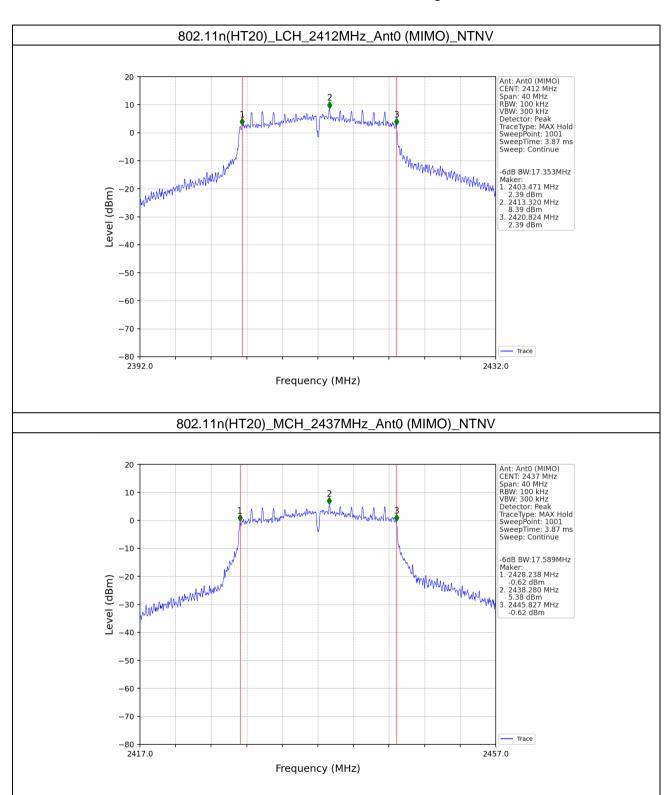
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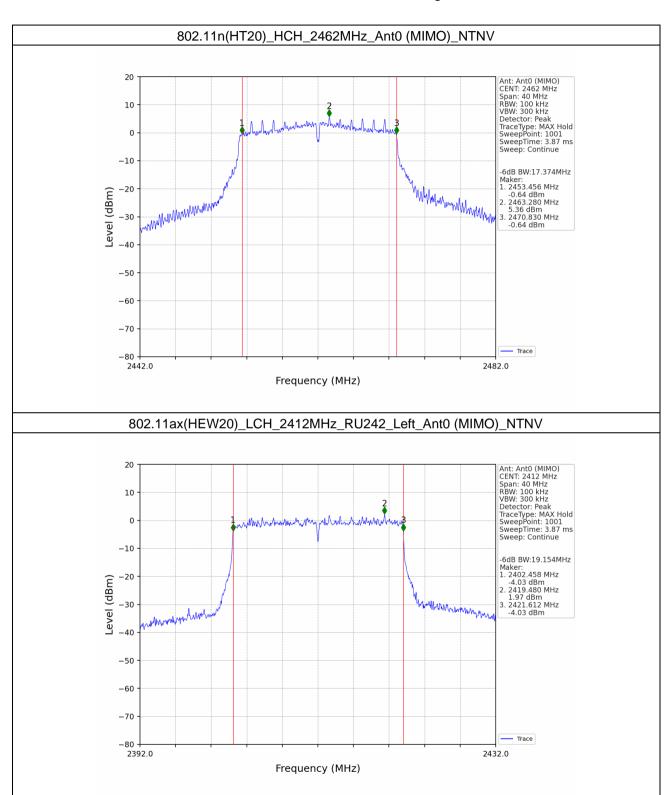
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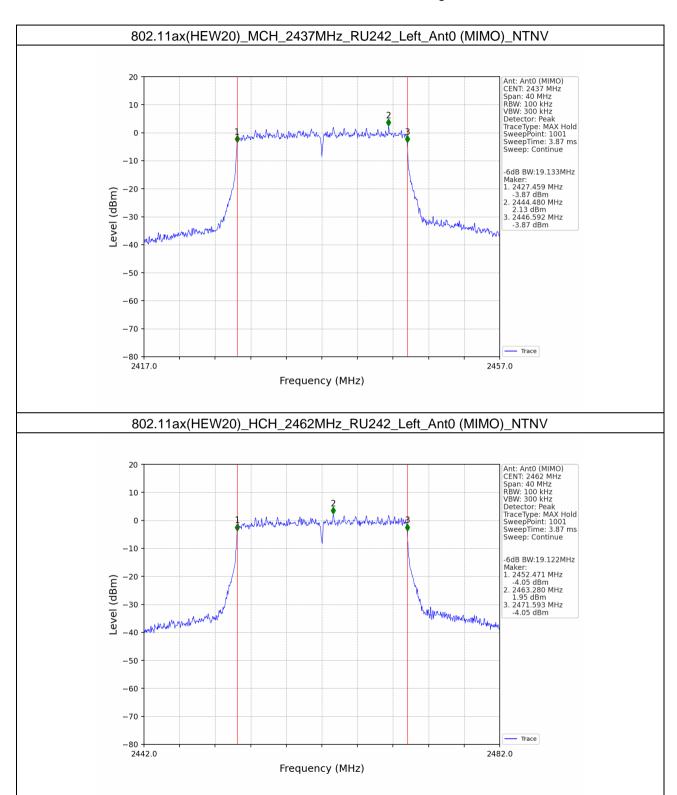
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum	Verdict			
					ANT0	ANT1	MIMO	Limit	
802.11b	SISO	2412	/	/	17.49	17.65	/	<=30	Pass
		2437	/	/	17.83	17.66	/	<=30	Pass
		2462	/	/	17.99	17.82	/	<=30	Pass
	SISO	2412	/	/	14.63	12.57	/	<=30	Pass
802.11g		2437	/	/	17.47	17.64	/	<=30	Pass
		2462	/	/	17.32	17.57	/	<=30	Pass
000.44	MIMO	2412	/	/	13.48	11.28	15.53	<=30	Pass
802.11n (HT20)		2437	/	/	13.33	11.79	15.64	<=30	Pass
		2462	/	/	13.33	12.85	16.11	<=30	Pass
000.44	МІМО	2412	RU242	Left	13.29	11.04	15.32	<=30	Pass
802.11ax (HEW20)		2437	RU242	Left	13.50	11.94	15.80	<=30	Pass
		2462	RU242	Left	13.63	13.10	16.38	<=30	Pass



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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)				\/a valiat
					ANT0	ANT1	MIMO	Limit	Verdict
802.11b	SISO	2412	/	/	-5.20	-4.78	/	<=8	Pass
		2437	/	/	-2.13	-3.87	/	<=8	Pass
		2462	/	/	-3.57	-4.90	/	<=8	Pass
802.11g	SISO	2412	/	/	-11.03	-12.61	/	<=8	Pass
		2437	/	/	-7.81	-6.16	/	<=8	Pass
		2462	/	/	-7.42	-7.30	/	<=8	Pass
802.11n (HT20)	MIMO	2412	/	/	-12.33	-13.73	-10.55	<=8	Pass
		2437	/	/	-10.40	-13.49	-8.67	<=8	Pass
		2462	/	/	-10.97	-11.85	-9.41	<=8	Pass
802.11ax (HEW20)	МІМО	2412	RU242	Left	-10.71	-13.57	-9.22	<=8	Pass
		2437	RU242	Left	-11.23	-13.12	-9.50	<=8	Pass
		2462	RU242	Left	-11.89	-12.13	-9.13	<=8	Pass



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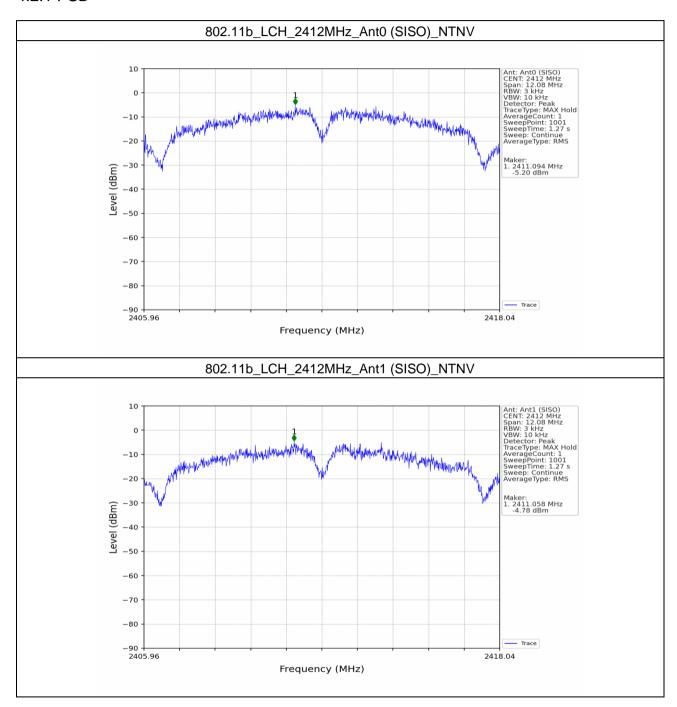
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4.2 Test Graph

4.2.1 PSD





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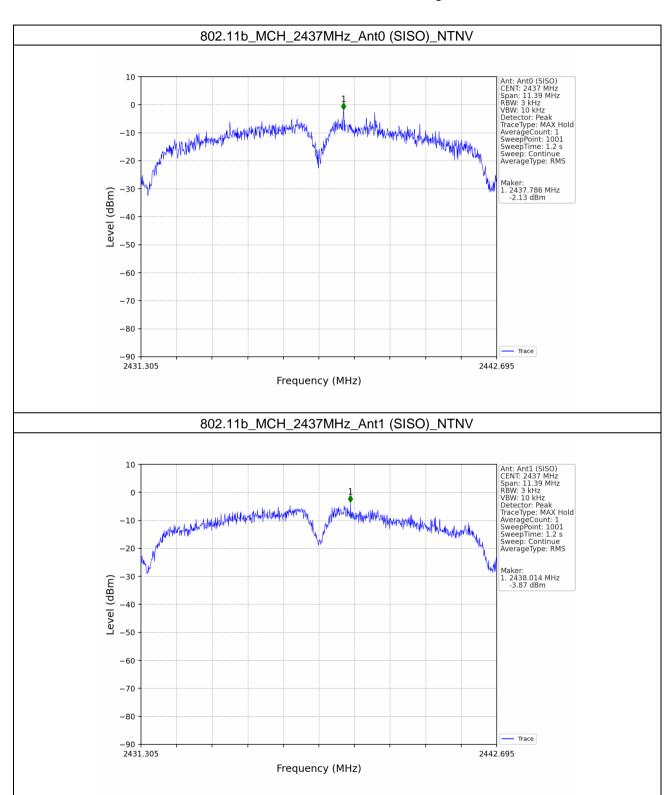
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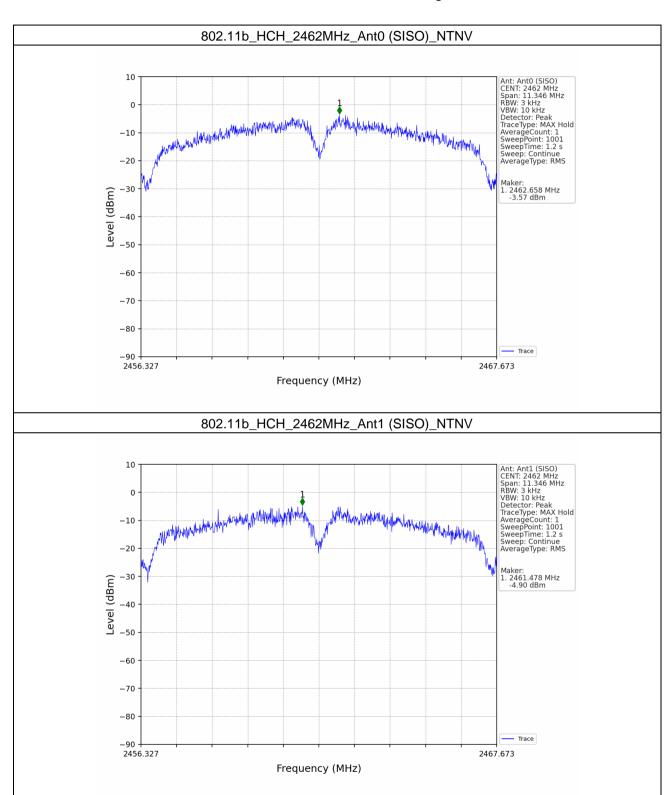
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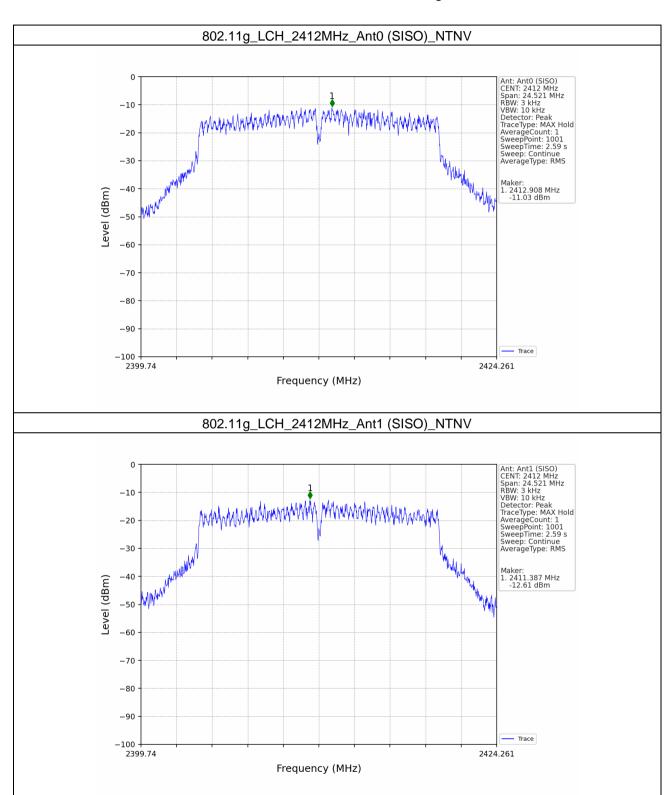
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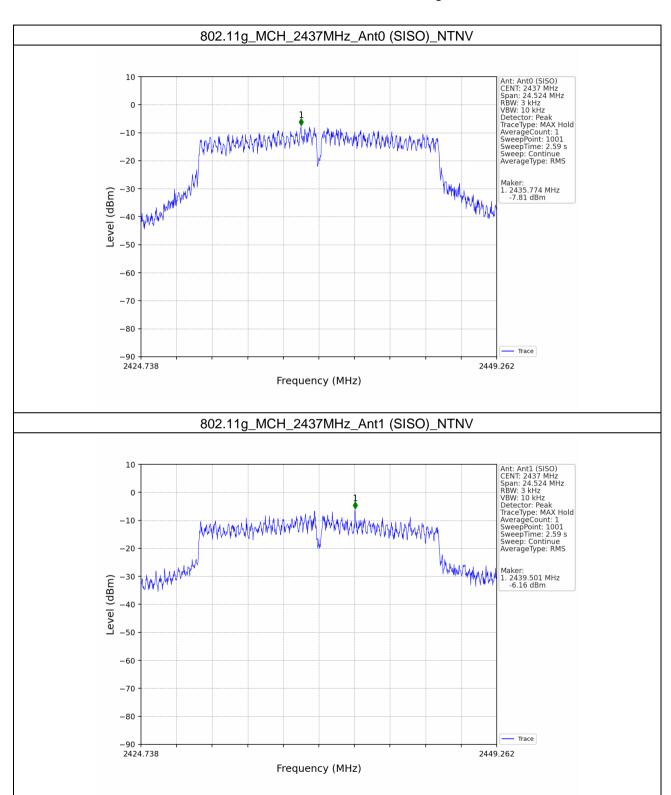
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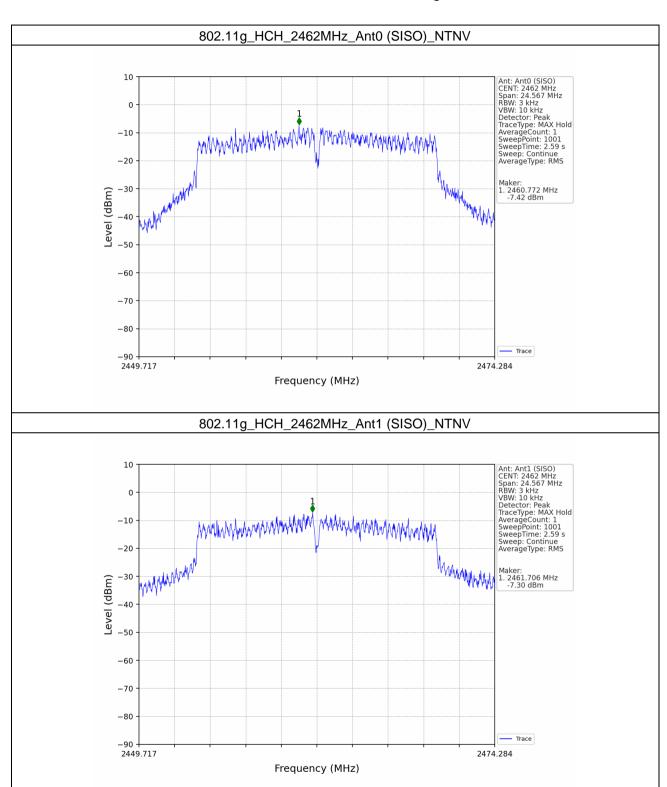
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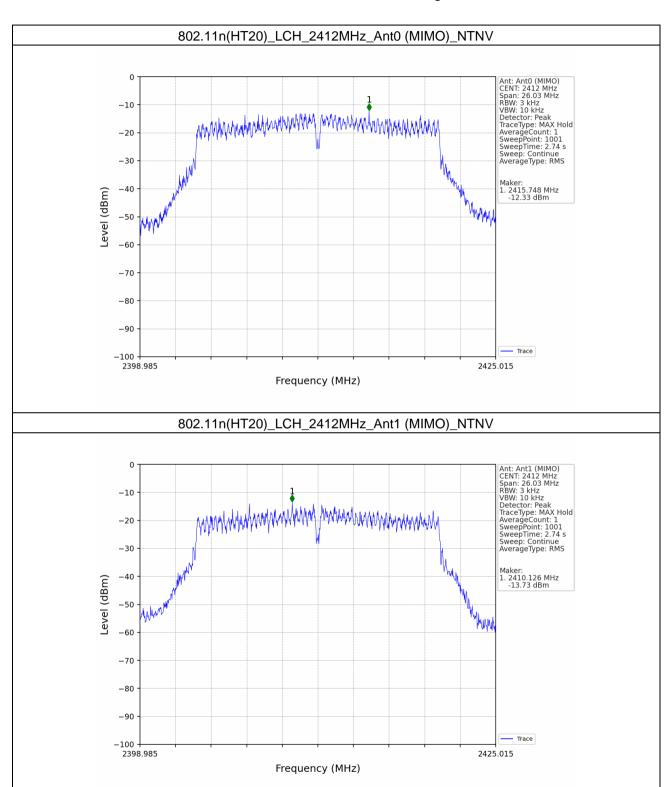
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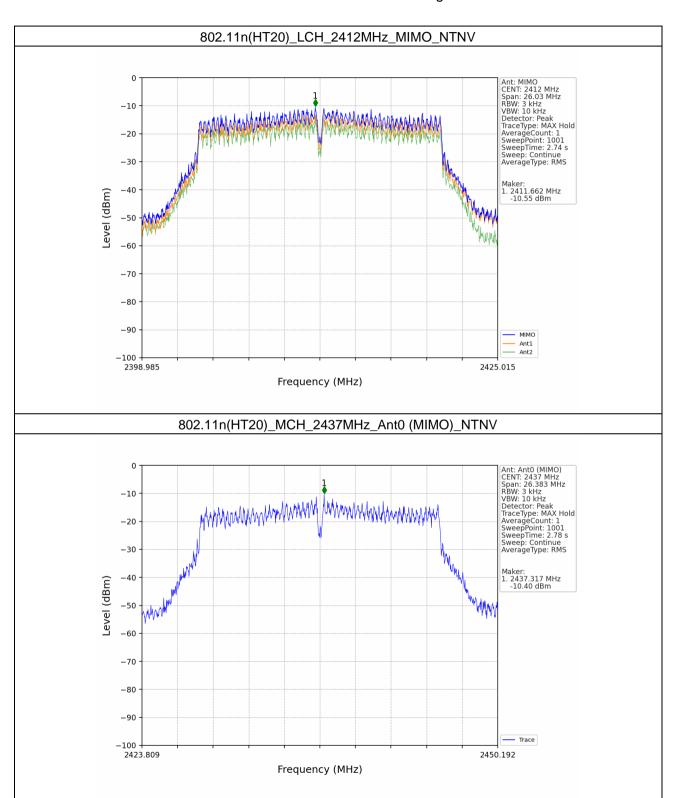
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