





SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200471904

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# TEST REPORT

**Application No.:** SZCR2412004719AT Applicant: Skyhigh Tech LLC

**Address of Applicant:** 1209 Orange Street, Wilmington, 19801, Wilmington, Delaware, United

Skyhigh Tech LLC Manufacturer:

Address of Manufacturer: 1209 Orange Street, Wilmington, 19801, Wilmington, Delaware, United

**Equipment Under Test (EUT):** 

**EUT Name:** YKBP RC 2 Model No.: YKBP2

FCC ID: 2BLZI-YKBP22411

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

2024-12-16 Date of Receipt:

**Date of Test:** 2025-01-14 to 2025-03-14

Date of Issue: 2025-03-25

Pass\* **Test Result:** 

Keny Xu **EMC Laboratory Manager** 

Ceny. Ku



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



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	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2025-03-25		Original				

Authorized for issue by:		
	Dorjar. I du ang	
	Donjon Huang/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**

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

Power supply:	Powered by Battery: 7.2V
Operation Fraguency	802.11b/g/n(HT20)/ax(HEW20): 2412MHz to 2462MHz;
Operation Frequency:	802.11n(HT40)/ax(HEW40): 2422MHz to 2452MHz
	802.11b: DSSS (CCK, DQPSK, DBPSK);
Modulation Type:	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK);
	802.11ax: OFDM (BPSK, QPSK, 16QAM, 64QAM,
No week a staff Ohanna alay	802.11b/g/n(HT20)/ax(HEW20):11;
Number of Channels:	802.11n(HT40)/ax(HEW40):7
Channel Spacing:	5MHz
Antenna Type:	Integral Antenna
Antenna Gain:	Ant 0: 4.56dBi and Ant 1: 2.30dBi
Remark:	Two antennas can simultaneous transmission
Antenna Number:	2
Cable Loss (for RF	0.9dB
conducted test):	

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.			
	-	1	•			
The EUT has been tested as an independent unit.						



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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	ESR	SZ-WRG-M- 047	2025-01-8	2026-01-7	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13	
	E I 3-LINDGREN	3010/2	3EIVIUU7-U2	2025-03-03	2026-03-02	

Radiated Emissions which fall in the restricted bands						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M- 048	2025-01-7	2026-01-6	
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M- 050	2025-01-7	2026-01-6	
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M- 055	2023-12-21	2025-12-20	
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C- 063	2025-01-06	2028-01-05	
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23	

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14 2025-03-04	2025-03-13 2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05



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Radiated Spurious Emis	ssions Above 1GHz				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M- 048	2025-01-7	2026-01-6
Low Noise Amplifier 1G- 18GHz	Tonscend	TAP01018050	SZ-WRG-M- 051	2025-01-7	2026-01-6
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M- 052	2025-01-8	2026-01-7
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M- 055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz- 40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M- 056	2023-12-25	2025-12-24
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C- 063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

RF Conducted Test	RF Conducted Test									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date					
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-14	2025-03-13					
Fower Sensor	131 FA33	13F32023K	3E101009-20	2025-03-04	2026-03-03					
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13					
Fower Sensor	KETSIGITI		3E101009-10	2025-03-04	2026-03-03					
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					
IVIAA SIGITAL ATTAIYZEL	KETSIGHT	N9020A	3EM004-19	2025-03-04	2026-03-03					
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05					
Attonuctor	Hubori Cuboor	6620_SMA-50-	SEM021-09	2024-03-14	2025-03-13					
Attenuator	Huber+Suhner	1	SEIVIUZ 1-09	2025-03-03	2026-03-02					



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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	2024-03-14 2025-03-03	2025-03-13 2026-03-02			



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## Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

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

#### 6.1.2 Conclusion

#### Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna 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 integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is: Ant 0: 4.56dBi and Ant 1: 2.30dBi.

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:

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

### 7.1.1 E.U.T. Operation

Operating Environment:

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

#### 7.1.2 Test Mode Description

		·
Pre-scan / Final test	Mode Code	Description
Final test	08	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6.5Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.



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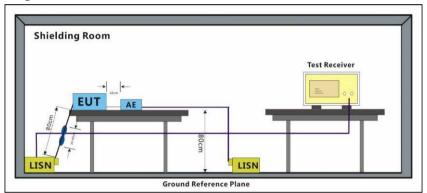
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### 7.1.3 Test Setup Diagram



#### 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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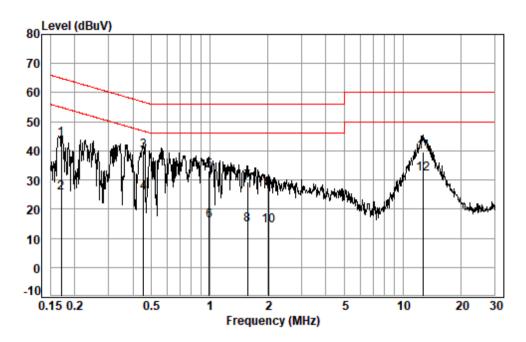


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Test Mode: 08: Line: Live line



: Shielding Room

Condition: Line Job No. : 04719AT

Test mode: 08

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	——dB	
1	0.1703	0.06	10.16	33.89	44.11	64.94	-20.83	QP
2	0.1703	0.06	10.16	15.46	25.68	54.94	-29.26	Average
3 *	0.4539	0.08	9.60	30.38	40.06	56.80	-16.74	QP
4	0.4539	0.08	9.60	15.88	25.56	46.80	-21.24	Average
5	0.9944	0.09	9.58	23.42	33.09	56.00	-22.91	QP
6	0.9944	0.09	9.58	6.35	16.02	46.00	-29.98	Average
7	1.5684	0.10	9.58	19.76	29.44	56.00	-26.56	QP
8	1.5684	0.10	9.58	4.90	14.58	46.00	-31.42	Average
9	2.0225	0.10	9.58	17.16	26.84	56.00	-29.16	QP
10	2.0225	0.10	9.58	4.66	14.34	46.00	-31.66	Average
11	12.7837	0.24	9.83	29.60	39.67	60.00	-20.33	QP
12 *	12.7837	0.24	9.83	21.92	31.99	50.00	-18.01	Average



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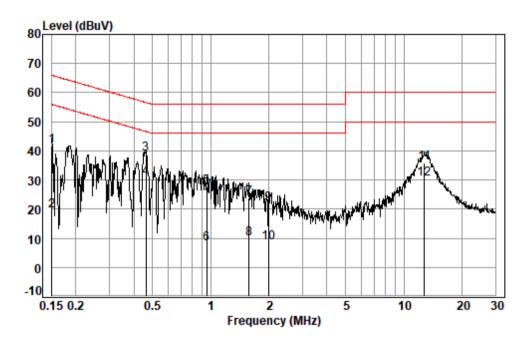


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Test Mode: 08: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 04719AT

Test mode: 08

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1508	0.06	10.15	31.46	41.67	65.96	-24.29	QP
2	0.1508	0.06	10.15	9.17	19.38	55.96	-36.58	Average
3 :	* 0.4612	0.08	9.72	28.99	38.79	56.67	-17.88	QP
4	* 0.4612	0.08	9.72	20.91	30.71	46.67	-15.96	Average
5	0.9531	0.09	9.55	17.84	27.48	56.00	-28.52	QP
6	0.9531	0.09	9.55	-1.43	8.21	46.00	-37.79	Average
7	1.5767	0.10	9.55	14.25	23.90	56.00	-32.10	QP
8	1.5767	0.10	9.55	0.27	9.92	46.00	-36.08	Average
9	1.9906	0.10	9.55	12.23	21.88	56.00	-34.12	QP
10	1.9906	0.10	9.55	-1.34	8.31	46.00	-37.69	Average
11	12.7837	0.24	9.74	25.86	35.84	60.00	-24.16	QP
12	12.7837	0.24	9.74	20.44	30.42	50.00	-19.58	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: 22.9 °C Humidity: 59.2 % RH Atmospheric Pressure: 1020 mbar

#### 7.2.2 Test Mode Description

7.2.2 Test Mode Description							
Pre-scan / Final test	Mode Code	Description					
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.					
Pre-scan	08	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.					



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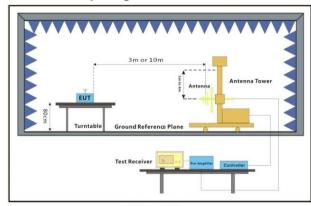


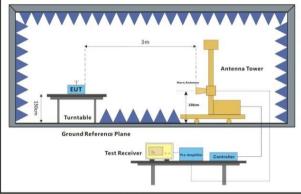
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### 7.2.3 Test Setup Diagram





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.
- Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

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



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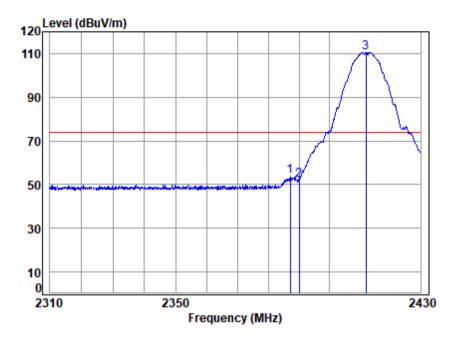


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 20 of 212

Test Mode: 07; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2412 Band edge

: 2.4G Wi-Fi 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		
	2387.065	6.82	27.45	31.54	50.95	53.68	74.00	-20.32	peak	
	2390.000	6.82	27.46	31.54	49.42	52.16	74.00	-21.84	peak	
nn	2412.000	6.91	27.52	31.54	107.74	110.63	74.00	36.63	peak	



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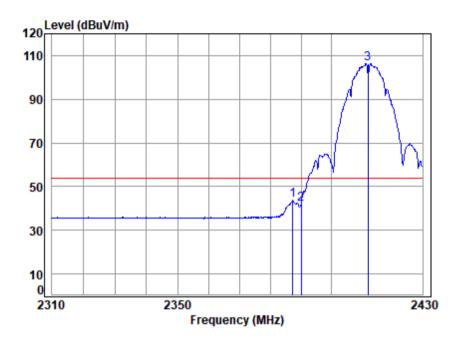


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Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2412 Band edge

: 2.4G Wi-Fi 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		
	2387.307	6.82	27.45	31.54	40.91	43.64	54.00	-10.36	Average	
	2390.000	6.82	27.46	31.54	39.43	42.17	54.00	-11.83	Average	
on	2412 000	6 91	27 52	31 54	103 47	106 36	54 00	52 36	Average	



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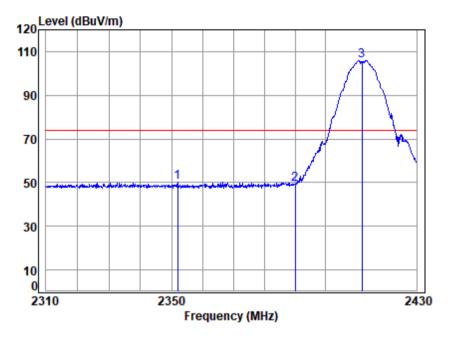


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Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No

1 2

: 04719AT Mode : 2412 Band edge

: 2.4G Wi-Fi 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		
	2351.906	6.81	27.31	31.54	47.62	50.20	74.00	-23.80	Peak	
	2390.000	6.82	27.46	31.54	46.33	49.07	74.00	-24.93	Peak	
าท	2412.000	6.91	27.52	31.54	102.88	105.77	74.00	31.77	Peak	



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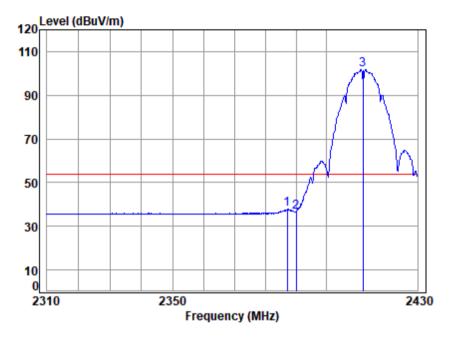


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 23 of 212

Test Mode: 07; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No

1 2

: 04719AT Mode : 2412 Band edge

: 2.4G Wi-Fi 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		
	2387.186	6.82	27.45	31.54	35.35	38.08	54.00	-15.92	Average	
	2390.000	6.82	27.46	31.54	33.88	36.62	54.00	-17.38	Average	
าท	2412.000	6.91	27.52	31.54	98.86	101.75	54.00	47.75	Average	



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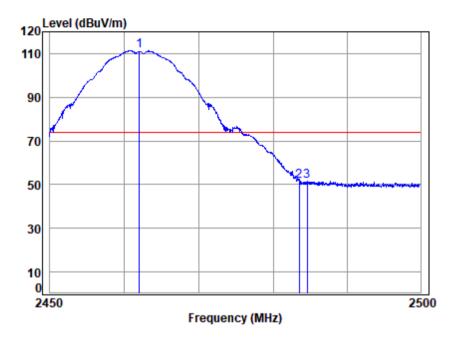


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Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2462 Band edge

: 2.4G Wi-Fi 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 pp	2462.000	7.25	27.67	31.55	107.89	111.26	74.00	37.26	peak
2	2483.500	7.40	27.80	31.55	48.08	51.73	74.00	-22.27	peak
3	2/18/1 593	7 /11	27 81	31 55	48 11	51 78	74 99	-22 22	neak



2 3

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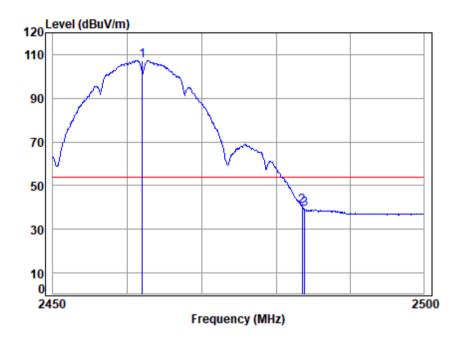


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Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2462 Band edge

: 2.4G Wi-Fi 11b

	Freq						Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	104.05	107.42	54.00	53.42	Average
2	2483.500	7.40	27.80	31.55	36.82	40.47	54.00	-13.53	Average
3	2483.840	7.40	27.80	31.55	35.77	39.42	54.00	-14.58	Average



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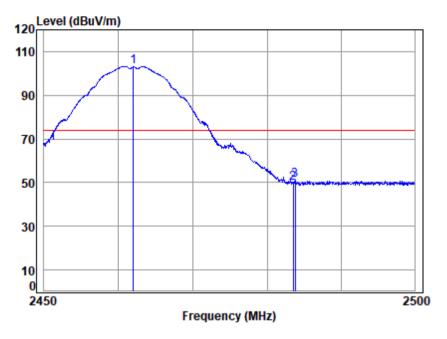


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Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No

2 3

: 04719AT Mode : 2462 Band edge

: 2.4G Wi-Fi 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 p	p 2462.000	7.25	27.67	31.55	99.94	103.31	74.00	29.31	Peak	
	2483.500									
3	2483 790	7 40	27 80	31 55	47 26	50 91	74 99	-23 09	Peak	



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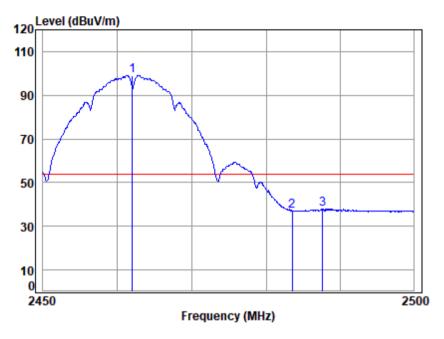


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Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No

2 3

: 04719AT Mode : 2462 Band edge

: 2.4G Wi-Fi 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 pp	2462.000	7.25	27.67	31.55	95.82	99.19	54.00	45.19	Average
2	2483.500	7.40	27.80	31.55	33.25	36.90	54.00	-17.10	Average
3	2487 656	7 43	27 83	31 55	34 11	37 82	54 00	-16 18	Average



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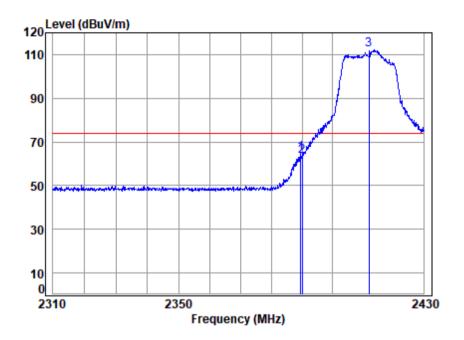


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Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2412 Band edge

: 2.4G Wi-Fi 11n20

	Cable	Ant Preamp	Read		Limit	0ver	
Freq	Loss Fac	tor Factor	Level	Level	Line	Limit	Remark
MHz	dB d	B/m dB	dBuV	dBuV/m	dBuV/m	dB	
1 2389.484	6.82 27	.46 31.54	62.07	64.81	74.00	-9.19	peak
2 2390.000	6.82 27	.46 31.54	60.74	63.48	74.00	-10.52	peak
3 pp 2412.000	6.91 27	.52 31.54	109.49	112.38	74.00	38.38	peak



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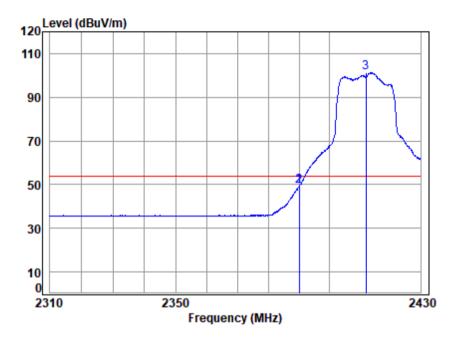


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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2412 Band edge

: 2.4G Wi-Fi 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		
	2389.968	6.82	27.46	31.54	46.50	49.24	54.00	-4.76	Average	
	2390.000	6.82	27.46	31.54	46.50	49.24	54.00	-4.76	Average	
nn	2412.000	6.91	27.52	31.54	98.31	101.20	54.00	47.20	Average	



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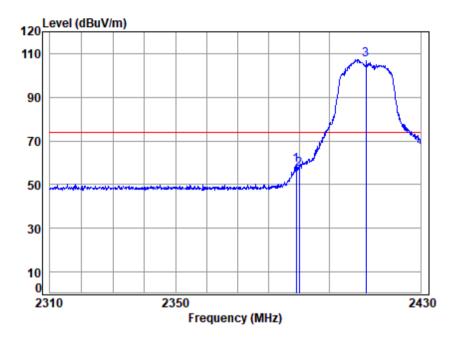


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Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL Job No : 04719AT

Mode : 2412 Band edge

: 2.4G Wi-Fi 11n20

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Freq Level Level MHz dB dB/m dBuV dBuV/m dBuV/m 6.82 27.46 31.54 56.13 2389.000 58.87 74.00 -15.13 Peak 2390.000 6.82 27.46 31.54 54.41 57.15 74.00 -16.85 Peak 3 pp 2412.000 6.91 27.52 31.54 104.40 107.29 74.00 33.29 Peak



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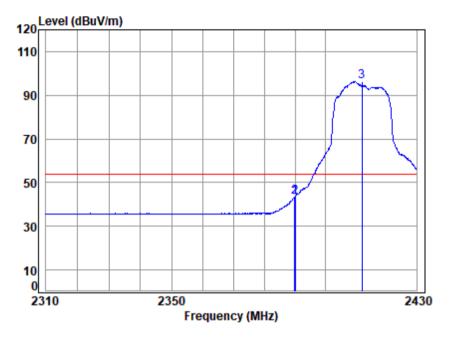


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 31 of 212

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No

1

3 pp 2412.000

Mode : 2412 Band edge

: 04719AT

: 2.4G Wi-Fi 11n20

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Line Freq Level Level dBuV dBuV/m dBuV/m MHz dB dB/m 6.82 27.46 31.54 40.82 43.56 54.00 -10.44 Average 2389.847 2390.000 6.82 27.46 31.54 40.70 43.44 54.00 -10.56 Average

6.91 27.52 31.54 93.36 96.25 54.00 42.25 Average



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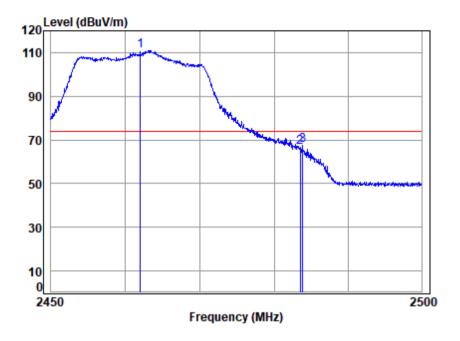


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Report No.: SZCR241200471904

Page: 32 of 212

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2462 Band edge

: 2.4G Wi-Fi 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 pp	2462.000	7.25	27.67	31.55	107.53	110.90	74.00	36.90	peak
2	2483.500	7.40	27.80	31.55	62.98	66.63	74.00	-7.37	peak
	2483 840								•



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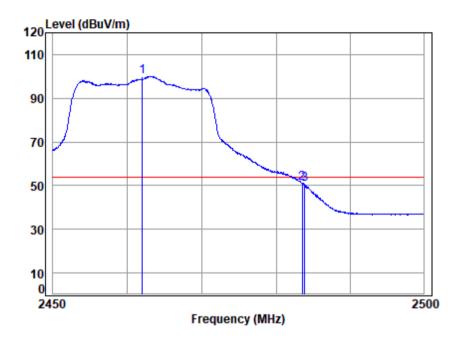


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2462 Band edge

: 2.4G Wi-Fi 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 pp	2462.000	7.25	27.67	31.55	96.74	100.11	54.00	46.11	Average	
2	2483.500	7.40	27.80	31.55	47.45	51.10	54.00	-2.90	Average	
3	2483 890	7.40	27.80	31.55	47.07	50.72	54.00	-3.28	Average	



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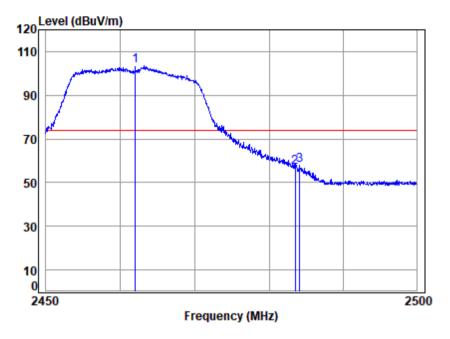


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 34 of 212

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

2484.141

Job No

2

Mode : 2462 Band edge

: 04719AT

: 2.4G Wi-Fi 11n20

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Freq Level Level MHz dB dB/m dBuV dBuV/m dBuV/m 1 pp 2462.000 7.25 27.67 31.55 100.06 103.43 74.00 29.43 Peak 2483.500 7.40 27.80 31.55 53.55 57.20 74.00 -16.80 Peak

7.40 27.80 31.55 54.40 58.05 74.00 -15.95 Peak



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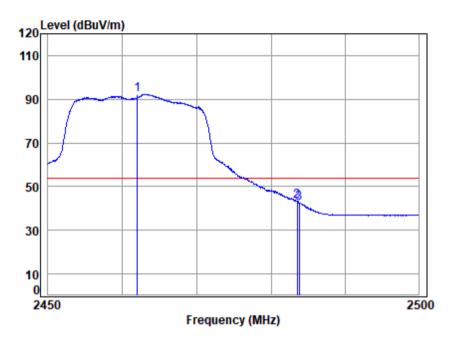


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 35 of 212

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No

2

Mode : 2462 Band edge

: 04719AT

: 2.4G Wi-Fi 11n20

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Freq Level Level dBuV dBuV/m dBuV/m MHz dB dB/m dB 1 pp 2462.000 7.25 27.67 31.55 88.95 92.32 54.00 38.32 Average 2483.500 7.40 27.80 31.55 39.90 43.55 54.00 -10.45 Average 2483.790 7.40 27.80 31.55 38.90 42.55 54.00 -11.45 Average



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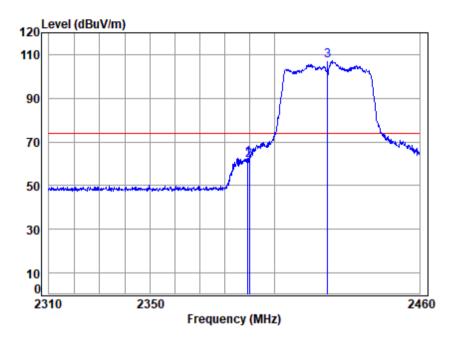


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 36 of 212

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2422 Band edge

: 2.4G Wi-Fi 11n40

				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2389.376	6.82	27.46	31.54	59.91	62.65	74.00	-11.35	peak
	2390.000	6.82	27.46	31.54	58.69	61.43	74.00	-12.57	peak
nn	2422 000	6 98	27 54	31 54	104 15	107 13	74 00	33 13	neak



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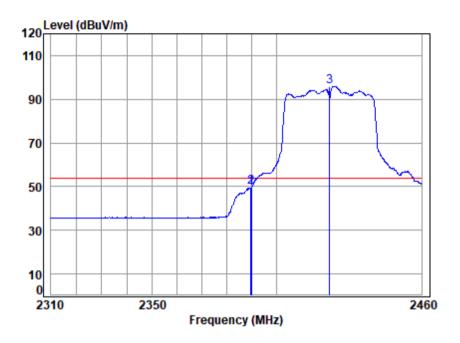


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 37 of 212

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2422 Band edge

: 2.4G Wi-Fi 11n40

				_						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_										
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2389.827	6.82	27.46	31.54	46.66	49.40	54.00	-4.60	Average	
	2390.000	6.82	27.46	31.54	46.93	49.67	54.00	-4.33	Average	
nn	2422,000	6.98	27.54	31.54	92.99	95.97	54.00	41.97	Average	



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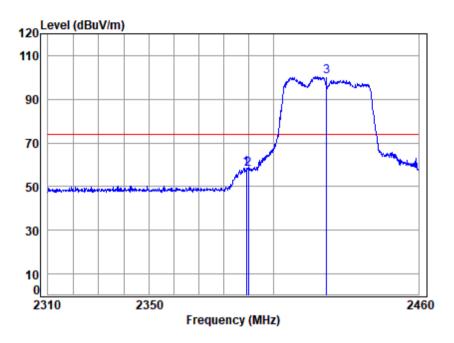


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 38 of 212

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No

1

Mode : 2422 Band edge

: 04719AT

: 2.4G Wi-Fi 11n40

Cable Ant Preamp Limit 0ver Read

Loss Factor Factor Line Limit Remark Freq Level Level MHz dB dB/m dBuV dBuV/m dBuV/m 2389.226 6.82 27.46 31.54 55.69 58.43 74.00 -15.57 Peak 2390.000 6.82 27.46 31.54 55.42 58.16 74.00 -15.84 Peak 3 pp 2422.000 6.98 27.54 31.54 97.41 100.39 74.00 26.39 Peak



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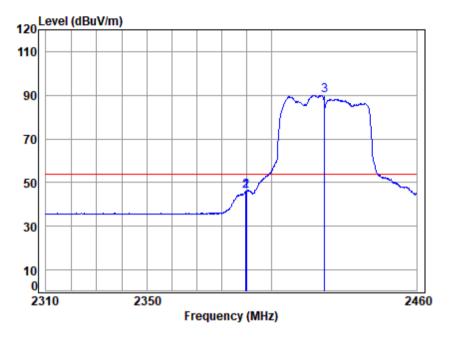


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 39 of 212

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No

1

: 04719AT Mode : 2422 Band edge

: 2.4G Wi-Fi 11n40

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Line Freq Level Level dBuV dBuV/m dBuV/m MHz dB dB/m dB 2389.827 6.82 27.46 31.54 43.33 46.07 54.00 -7.93 Average 2390.000 6.82 27.46 31.54 43.45 46.19 54.00 -7.81 Average 3 pp 2422.000 6.98 27.54 31.54 87.08 90.06 54.00 36.06 Average



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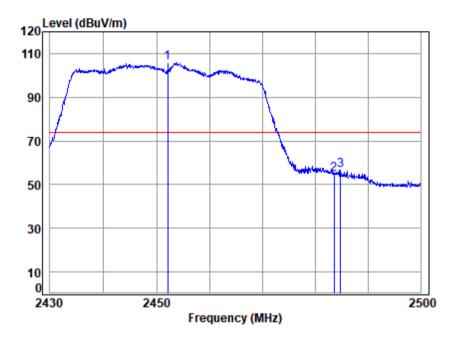


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 40 of 212

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2452 Band edge

: 2.4G Wi-Fi 11n40

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	7.18	27.61	31.55	102.61	105.85	74.00	31.85	peak
2	2483.500	7.40	27.80	31.55	51.30	54.95	74.00	-19.05	peak
3	2/12/1 711	7 /11	27 81	31 55	53 11	56 78	7/ 00	_17_22	nook



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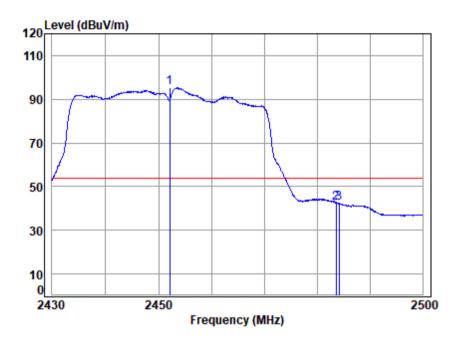


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Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2452 Band edge

: 2.4G Wi-Fi 11n40

					_						
			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	l pp	2452.000	7.18	27.61	31.55	92.15	95.39	54.00	41.39	Average	
2	2	2483.500	7.40	27.80	31.55	38.92	42.57	54.00	-11.43	Average	
	3	2484 076	7.40	27 80	31 55	38 71	42 36	54 00	-11 64	Average	



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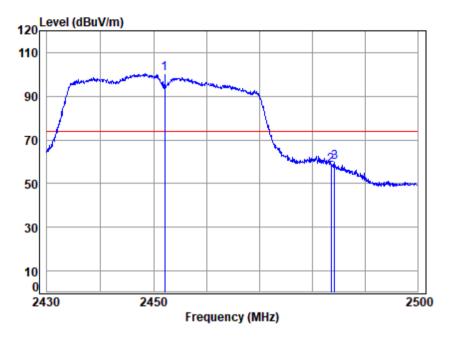


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No

Mode : 2452 Band edge

MHz

: 04719AT

: 2.4G Wi-Fi 11n40

dB

dB/m

Cable Ant Preamp Limit 0ver Read

Loss Factor Factor Line Limit Remark Freq Level Level

dBuV dBuV/m dBuV/m

27.61 31.55 96.99 100.23 74.00 26.23 Peak 1 pp 2452.000 7.18 2 2483.500 7.40 27.80 31.55 54.71 58.36 74.00 -15.64 Peak 2484.147 7.40 27.80 31.55 56.12 59.77 74.00 -14.23 Peak



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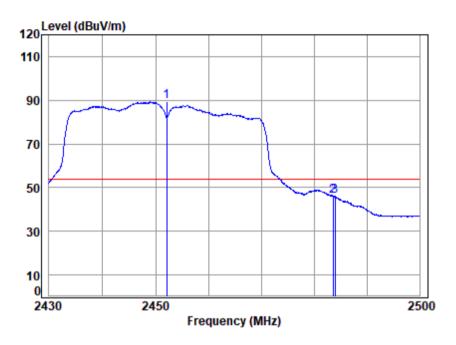


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 43 of 212

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2452 Band edge

: 2.4G Wi-Fi 11n40

Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp 2452.000	7.18	27.61	31.55	85.97	89.21	54.00	35.21	Average
2483.500	7.40	27.80	31.55	42.37	46.02	54.00	-7.98	Average
2483.865	7.40	27.80	31.55	42.22	45.87	54.00	-8.13	Average



2

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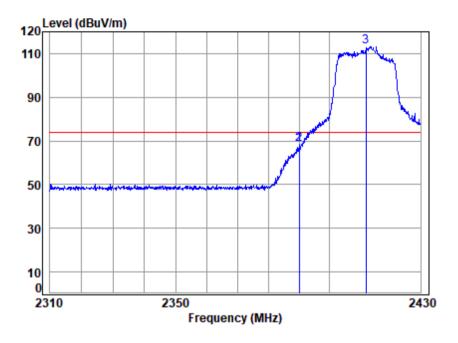


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 44 of 212

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2412 Band edge

: 2.4G Wi-Fi 1ax20

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2389.968	6.82	27.46	31.54	65.75	68.49	74.00	-5.51	peak	
	2390.000								-	
go	2412.000								•	



1 2

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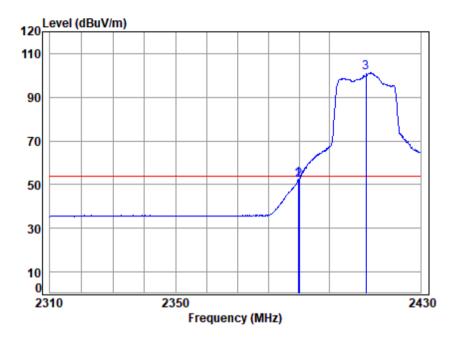


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 45 of 212

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2412 Band edge

: 2.4G Wi-Fi 1ax20

				_						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2389.726	6.82	27.46	31.54	49.57	52.31	54.00	-1.69	Average	
	2390.000	6.82	27.46	31.54	49.40	52.14	54.00	-1.86	Average	
on	2412 000	6 91	27 52	31 54	98 36	101 25	54 00	47 25	Average	



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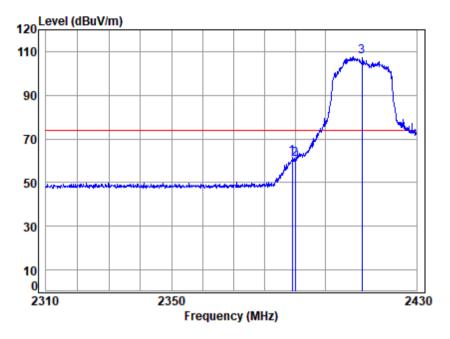


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 46 of 212

Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No

1

3 pp 2412.000

Mode : 2412 Band edge

: 04719AT

: 2.4G Wi-Fi 1ax20

Cable Ant Preamp Limit 0ver Read

Loss Factor Factor Line Limit Remark Freq Level Level

6.91 27.52 31.54 104.93 107.82 74.00 33.82 Peak

MHz dB dB/m dBuV dBuV/m dBuV/m 6.82 27.46 31.54 58.92 61.66 74.00 -12.34 Peak 2389.121 2390.000 6.82 27.46 31.54 58.15 60.89 74.00 -13.11 Peak



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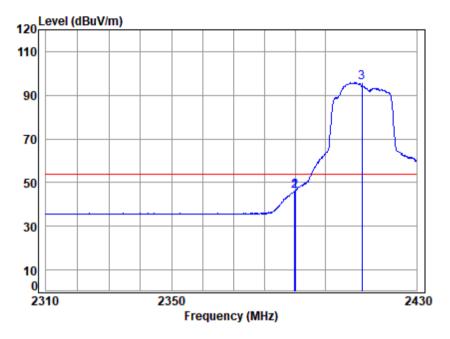


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 47 of 212

Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No

1

Mode : 2412 Band edge

: 04719AT

: 2.4G Wi-Fi 1ax20

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Line Freq Level Level dBuV dBuV/m dBuV/m MHz dB dB/m dB 6.82 27.46 31.54 43.25 45.99 54.00 -8.01 Average 2389.847 2390.000 6.82 27.46 31.54 43.18 45.92 54.00 -8.08 Average 3 pp 2412.000 6.91 27.52 31.54 92.82 95.71 54.00 41.71 Average



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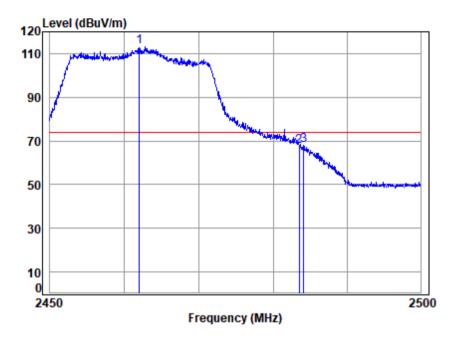


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 48 of 212

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2462 Band edge

: 2.4G Wi-Fi 1ax20

		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 pp	2462.000	7.25	27.67	31.55	109.92	113.29	74.00	39.29	peak
	2483.500								-
	2484.141								•



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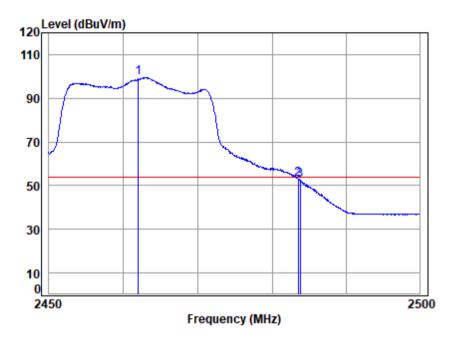


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 49 of 212

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2462 Band edge

: 2.4G Wi-Fi 1ax20

			I IUNE	•						
		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		
pp	2462.000	7.25	27.67	31.55	96.23	99.60	54.00	45.60	Average	
	2483.500	7.40	27.80	31.55	49.27	52.92	54.00	-1.08	Average	
	2483.790	7.40	27.80	31.55	48.72	52.37	54.00	-1.63	Average	



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3

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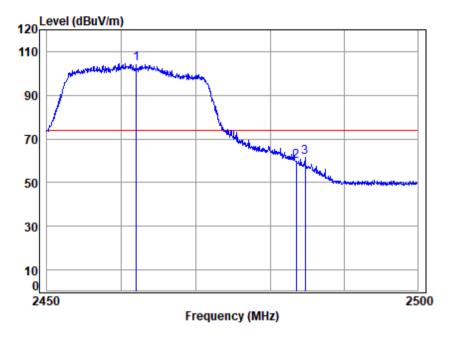


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 50 of 212

Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No

2

: 04719AT Mode : 2462 Band edge

: 2.4G Wi-Fi 1ax20

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Freq Level Level MHz dB dB/m dBuV dBuV/m dBuV/m 1 pp 2462.000 7.25 27.67 31.55 101.22 104.59 74.00 30.59 Peak 2483.500 7.40 27.80 31.55 56.24 59.89 74.00 -14.11 Peak 2484.743 7.41 27.81 31.55 58.09 61.76 74.00 -12.24 Peak



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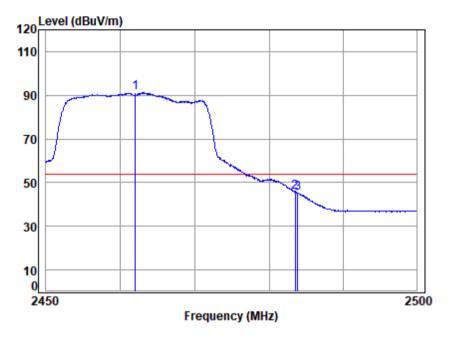


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 51 of 212

Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No

: 04719AT Mode : 2462 Band edge

: 2.4G Wi-Fi 1ax20

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	87.77	91.14	54.00	37.14	Average
2	2483.500	7.40	27.80	31.55	42.19	45.84	54.00	-8.16	Average
3	2483.890	7.40	27.80	31.55	41.65	45.30	54.00	-8.70	Average



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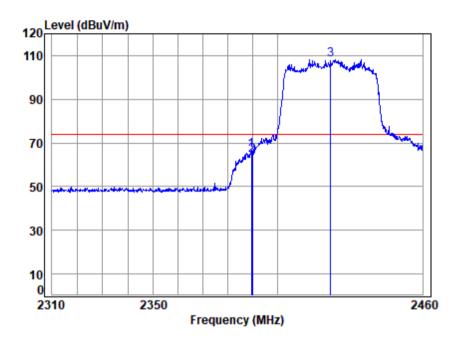


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 52 of 212

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2422 Band edge

: 2.4G Wi-Fi 1ax40

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2389.526	6.82	27.46	31.54	63.68	66.42	74.00	-7.58	peak	
	2390.000	6.82	27.46	31.54	61.60	64.34	74.00	-9.66	peak	
go	2422.000								•	



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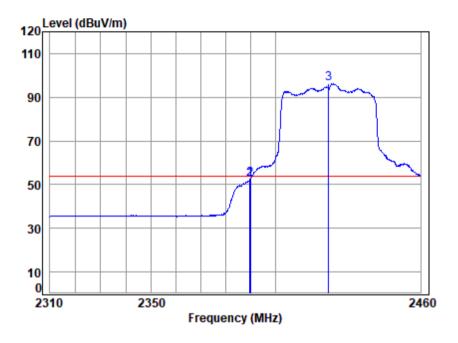


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Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2422 Band edge

: 2.4G Wi-Fi 1ax40

				•						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2389.827	6.82	27.46	31.54	49.59	52.33	54.00	-1.67	Average	
	2390.000	6.82	27.46	31.54	49.86	52.60	54.00	-1.40	Average	
nn	2422.000								Average	



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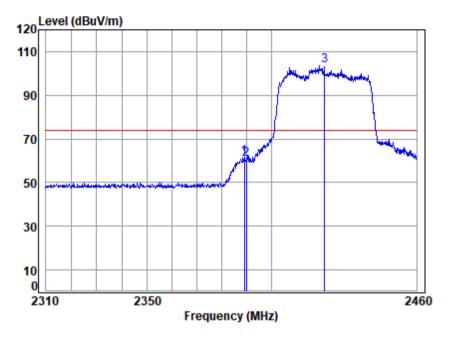


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 54 of 212

Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No

1

3 pp 2422.000

: 04719AT Mode : 2422 Band edge

: 2.4G Wi-Fi 1ax40

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Freq Level Level MHz dB dB/m dBuV dBuV/m dBuV/m 6.82 27.46 31.54 58.82 61.56 74.00 -12.44 Peak 2389.075 2390.000 6.82 27.46 31.54 58.09 60.83 74.00 -13.17 Peak

6.98 27.54 31.54 100.79 103.77 74.00 29.77 Peak



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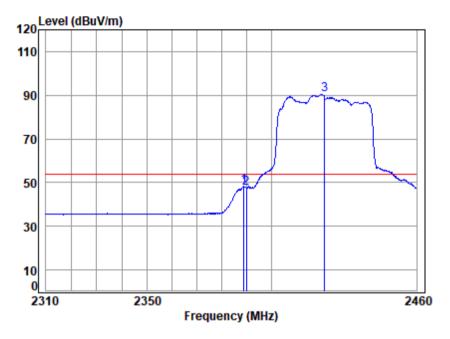


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Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No

1

2

Mode : 2422 Band edge

: 04719AT

: 2.4G Wi-Fi 1ax40

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Line Freq Level Level MHz dB dB/m dBuV dBuV/m dBuV/m dB 2388.925 6.82 27.46 31.54 45.51 48.25 54.00 -5.75 Average 2390.000 6.82 27.46 31.54 44.93 47.67 54.00 -6.33 Average 3 pp 2422.000 6.98 27.54 31.54 87.50 90.48 54.00 36.48 Average



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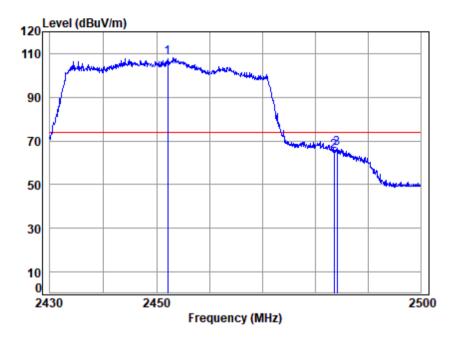


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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2452 Band edge

: 2.4G Wi-Fi 1ax40

		Freq						Limit Line		Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	рр	2452.000	7.18	27.61	31.55	105.06	108.30	74.00	34.30	peak	
)		2483.500	7.40	27.80	31.55	61.69	65.34	74.00	-8.66	peak	
,		2484.076	7.40	27.80	31.55	62.92	66.57	74.00	-7.43	peak	



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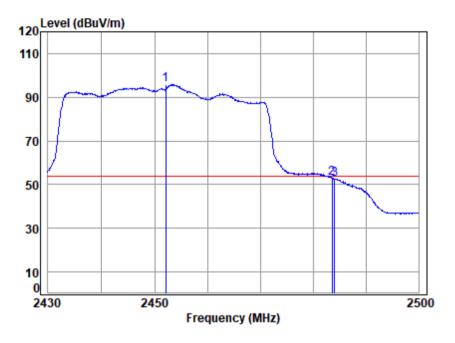


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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2452 Band edge

: 2.4G Wi-Fi 1ax40

				1 10/11							
			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		
	pp	2452.000	7.18	27.61	31.55	92.51	95.75	54.00	41.75	Average	
)		2483.500								_	
		2483.935								_	



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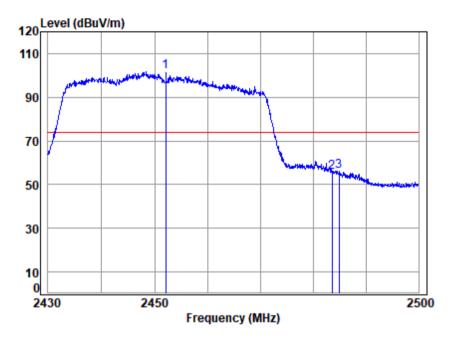


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Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2452 Band edge

: 2.4G Wi-Fi 1ax40

				_					
		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 pp	2452.000	7.18	27.61	31.55	98.56	101.80	74.00	27.80	Peak
2	2483.500	7.40	27.80	31.55	52.08	55.73	74.00	-18.27	Peak
3	2/18/1 852	7 41	27 81	31 55	52 68	56 35	74 99	-17 65	Peak



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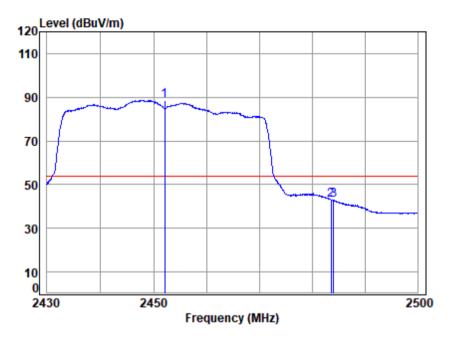


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Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2452 Band edge

: 2.4G Wi-Fi 1ax40

					_						
			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	pp	2452.000	7.18	27.61	31.55	85.26	88.50	54.00	34.50	Average	
2		2483.500	7.40	27.80	31.55	39.45	43.10	54.00	-10.90	Average	
3		2483 935	7 40	27 80	31 55	39 24	42 89	54 00	-11 11	Average	



2 3

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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: 23.5 °C Humidity: 46.8 % 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 continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.
Final test	08	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6.5Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.



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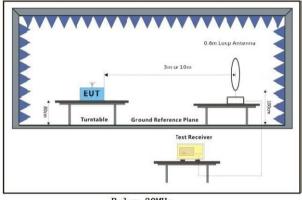
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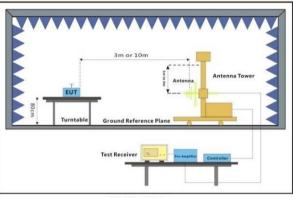


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#### 7.3.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

#### 7.3.4 Measurement Procedure and Data

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



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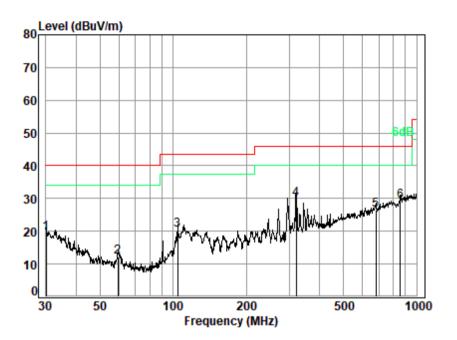


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Test Mode: 08; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 04719AT

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	30.105	21.15	0.67	27.79	25.37	19.40	40.00	-20.60	QP
2	59.232	11.56	0.94	27.71	27.29	12.08	40.00	-27.92	QP
3	104.170	12.22	1.25	27.57	34.34	20.24	43.50	-23.26	QP
4 q	319.937	18.51	2.28	26.83	35.94	29.90	46.00	-16.10	QP
5	682.348	25.80	3.49	27.77	25.07	26.59	46.00	-19.41	QP
6	857.025	27.09	4.01	27.07	25.09	29.12	46.00	-16.88	OP



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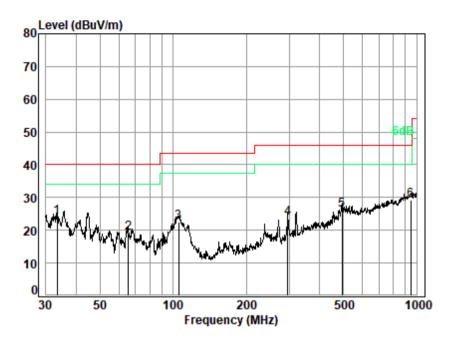


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Test Mode: 08: Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 04719AT Test Mode: 08

Cable Preamp Limit 0ver Ant Read Loss Factor Freq Factor Level Line Limit Remark Level MHz dB/m dB dBuV dBuV/m dBuV/m 33.328 19.73 0.71 27.78 31.23 23.89 40.00 -16.11 QP 65.343 11.00 0.99 27.69 34.71 19.01 40.00 -20.99 QP 2 3 105.272 12.19 1.26 27.57 36.55 22.43 43.50 -21.07 QP 4 295.147 17.45 2.18 26.77 30.75 23.61 46.00 -22.39 QP 5 494.199 22.82 2.90 27.54 28.01 26.19 46.00 -19.81 OP 945.440 28.26 4.24 26.44 23.19 29.25 46.00 -16.75 OP



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#### 7.4 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

Limit:

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

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

Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 23.5 °C Humidity: 58.9 % RH

#### 7.4.2 Test Mode Description

1.4.2 Test mode besoription							
Pre-scan / Final test	Mode Code	Description					
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.					
Pre-scan	08	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.					



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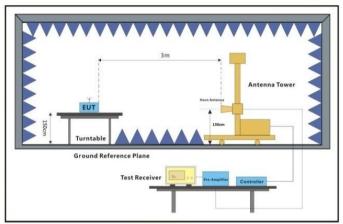


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#### 7.4.3 Test Setup Diagram



Above 1GHz



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#### 7.4.4 Measurement Procedure and Data

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

#### Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle≥98%) for Average detection (AV) at frequency above 1GHz.



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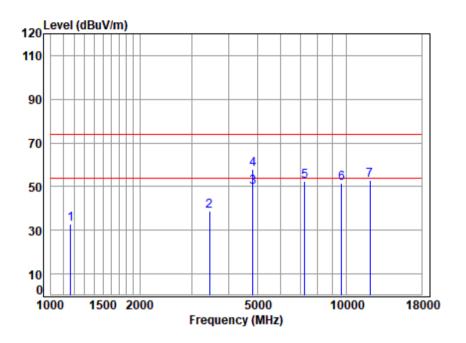


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Test Mode: 07; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2412 TX RSE

: 2.4G Wi-Fi 11b

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1165.546	7.16	25.37	54.70	55.25	33.08	74.00	-40.92	peak
2	3445.535	7.69	29.39	55.27	57.02	38.83	74.00	-35.17	peak
3	pp 4824.000	8.92	32.00	56.18	64.91	49.65	54.00	-4.35	Average
4	pk 4824.000	8.92	32.00	56.18	73.26	58.00	74.00	-16.00	peak
5	7236.000	11.10	36.60	56.51	61.14	52.33	74.00	-21.67	peak
6	9648.000	12.49	38.70	54.42	54.57	51.34	74.00	-22.66	peak
7	12044.520	14.35	39.76	53.83	52.48	52.76	74.00	-21.24	peak



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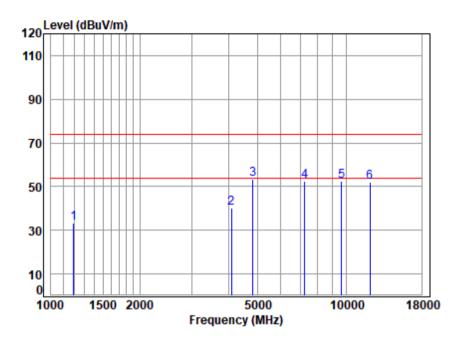


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Test Mode: 07; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2412 TX RSE

: 2.4G Wi-Fi 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	1192.811	7.18	25.31	54.70	55.52	33.31	74.00	-40.69	peak
2	4086.182	8.33	30.37	55.66	57.17	40.21	74.00	-33.79	peak
3	pp 4824.000	8.92	32.00	56.18	68.48	53.22	74.00	-20.78	peak
4	7236.000	11.10	36.60	56.51	61.38	52.57	74.00	-21.43	peak
5	9648.000	12.49	38.70	54.42	55.68	52.45	74.00	-21.55	peak
6	12044.520	14.35	39.76	53.83	51.73	52.01	74.00	-21.99	peak



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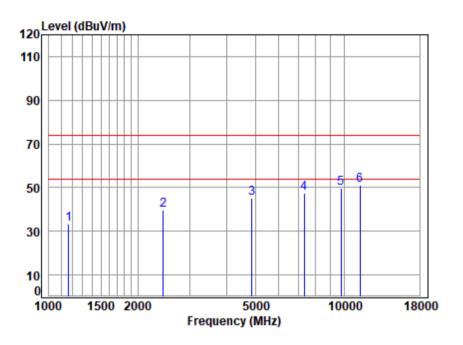


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Test Mode: 07; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2437 TX RSE

: 2.4G Wi-Fi 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	1165.546	7.16	25.37	54.70	55.28	33.11	74.00	-40.89	peak
2	2435.701	7.37	27.57	54.83	59.57	39.68	74.00	-34.32	peak
3	4874.000	8.97	32.15	56.21	60.24	45.15	74.00	-28.85	peak
4	7311.000	11.11	36.72	56.45	56.22	47.60	74.00	-26.40	peak
5	9748.000	12.80	38.60	54.33	52.84	49.91	74.00	-24.09	peak
6	pp11302.480	14.39	39.70	53.59	50.43	50.93	74.00	-23.07	peak



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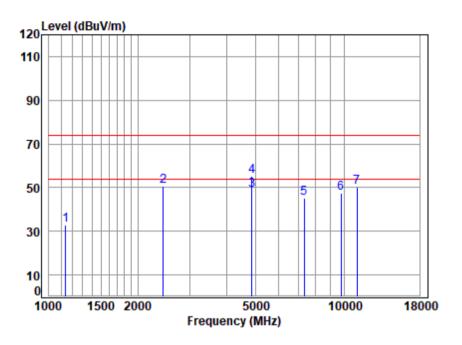


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Test Mode: 07; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2437 TX RSE

: 2.4G Wi-Fi 11b

		_			Preamp					
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1138.904	7.14	25.44	54.70	55.11	32.99	74.00	-41.01	peak
2		2435.701	7.37	27.57	54.83	70.44	50.55	74.00	-23.45	peak
3	pp	4874.000	8.97	32.15	56.21	63.95	48.86	54.00	-5.14	Average
4	pk	4874.000	8.97	32.15	56.21	70.13	55.04	74.00	-18.96	peak
5		7311.000	11.11	36.72	56.45	53.69	45.07	74.00	-28.93	peak
6		9748.000	12.80	38.60	54.33	50.22	47.29	74.00	-26.71	peak
7		11044.130	14.18	39.44	53.51	49.91	50.02	74.00	-23.98	peak



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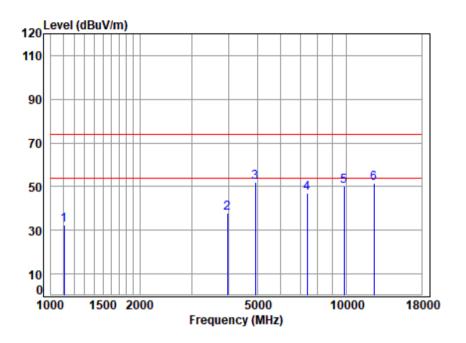


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Test Mode: 07; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2462 TX RSE

: 2.4G Wi-Fi 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	1109.660	7.11	25.56	54.70	54.57	32.54	74.00	-41.46	peak
2	3969.767	8.10	30.14	55.58	55.11	37.77	74.00	-36.23	peak
3	pp 4924.000	9.03	32.20	56.25	66.99	51.97	74.00	-22.03	peak
4	7386.000	11.19	36.73	56.39	55.62	47.15	74.00	-26.85	peak
5	9848.000	12.84	37.83	54.24	53.79	50.22	74.00	-23.78	peak
6	12433.620	14.79	39.90	54.10	51.08	51.67	74.00	-22.33	peak



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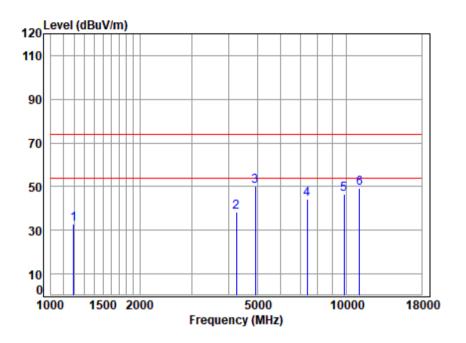


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Test Mode: 07; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2462 TX RSE

: 2.4G Wi-Fi 11b

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1192.811	7.18	25.31	54.70	55.07	32.86	74.00	-41.14	peak	
2	4242.641	8.48	31.06	55.77	54.63	38.40	74.00	-35.60	peak	
3	pp 4924.000	9.03	32.20	56.25	65.27	50.25	74.00	-23.75	peak	
4	7386.000	11.19	36.73	56.39	52.86	44.39	74.00	-29.61	peak	
5	9848.000	12.84	37.83	54.24	50.32	46.75	74.00	-27.25	peak	
	11108.160									



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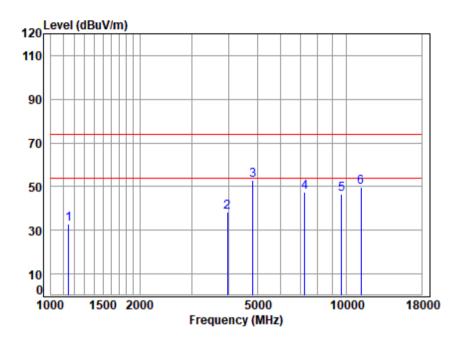


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Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2412 TX RSE

: 2.4G Wi-Fi 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		
	1148.823	7.14	25.40	54.70	54.86	32.70	74.00	-41.30	peak	
•	3958.309	8.10	30.12	55.57	55.65	38.30	74.00	-35.70	peak	
,	pp 4824.000	8.92	32.00	56.18	68.20	52.94	74.00	-21.06	peak	
Ļ	7236.000	11.10	36.60	56.51	56.25	47.44	74.00	-26.56	peak	
,	9648.000	12.49	38.70	54.42	49.80	46.57	74.00	-27.43	peak	
,	11204.900	14.25	39.60	53.56	49.35	49.64	74.00	-24.36	peak	



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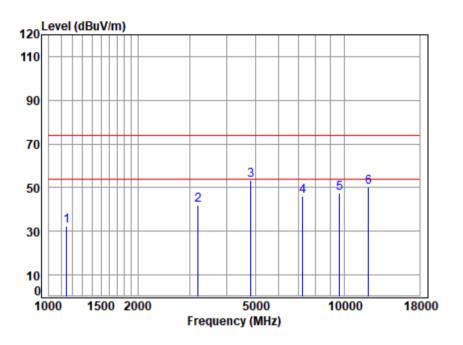


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Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2412 TX RSE

: 2.4G Wi-Fi 11n20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1148.823	7.14	25.40	54.70	54.71	32.55	74.00	-41.45	peak
2	3196.094	7.70	29.20	55.12	60.15	41.93	74.00	-32.07	peak
3	pp 4824.000	8.92	32.00	56.18	68.68	53.42	74.00	-20.58	peak
4	7236.000	11.10	36.60	56.51	54.83	46.02	74.00	-27.98	peak
5	9648.000	12.49	38.70	54.42	50.50	47.27	74.00	-26.73	peak
6	12079.390	14.36	39.72	53.86	49.76	49.98	74.00	-24.02	peak



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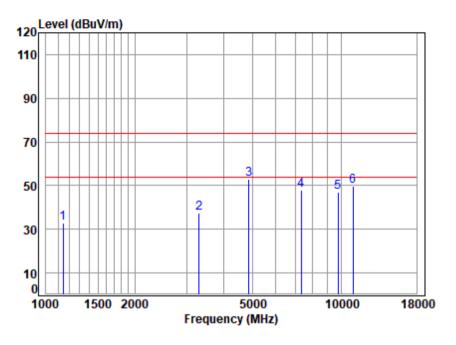


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 75 of 212

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2437 TX RSE

: 2.4G Wi-Fi 11n20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	7.14	25.42	54.70	54.88	32.74	74.00	-41.26	peak
2	3299.344	7.58	29.20	55.18	55.96	37.56	74.00	-36.44	Peak
3	pp 4874.000	8.97	32.15	56.21	67.96	52.87	74.00	-21.13	peak
4	7311.000	11.11	36.72	56.45	56.66	48.04	74.00	-25.96	peak
5	9748.000	12.80	38.60	54.33	49.77	46.84	74.00	-27.16	peak
6	10980.470	14.10	39.38	53.51	49.58	49.55	74.00	-24.45	peak



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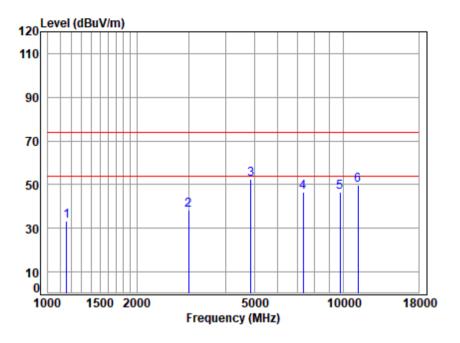


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2437 TX RSE

: 2.4G Wi-Fi 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	1158.828	7.15	25.38	54.70	55.34	33.17	74.00	-40.83	peak	
2	2999.187	8.18	29.00	55.00	56.31	38.49	74.00	-35.51	Peak	
3	pp 4874.000	8.97	32.15	56.21	67.58	52.49	74.00	-21.51	peak	
4	7311.000	11.11	36.72	56.45	54.96	46.34	74.00	-27.66	peak	
5	9748.000	12.80	38.60	54.33	49.42	46.49	74.00	-27.51	peak	
6	11237.330	14.30	39.64	53.57	49.35	49.72	74.00	-24.28	peak	



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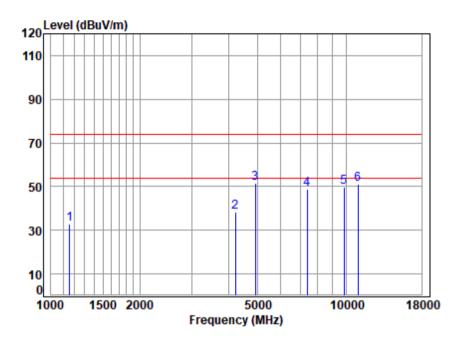


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2462 TX RSE

: 2.4G Wi-Fi 11n20

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	7.15	25.39	54.70	54.81	32.65	74.00	-41.35	peak
2	4218.186	8.50	30.91	55.75	54.71	38.37	74.00	-35.63	peak
3	pp 4924.000	9.03	32.20	56.25	66.67	51.65	74.00	-22.35	peak
4	7386.000	11.19	36.73	56.39	57.43	48.96	74.00	-25.04	peak
5	9848.000	12.84	37.83	54.24	53.11	49.54	74.00	-24.46	peak
6	10948.780	13.91	39.35	53.53	51.48	51.21	74.00	-22.79	peak



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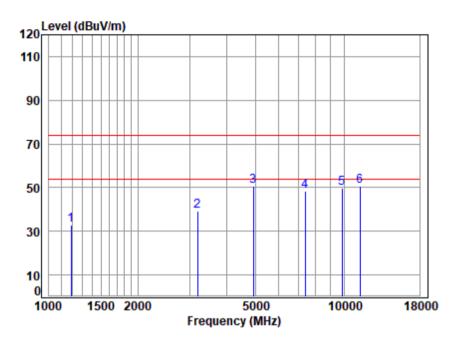


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Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2462 TX RSE

: 2.4G Wi-Fi 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	
1189.368	7.18	25.32	54.70	55.19	32.99	74.00	-41.01	peak
3186.869	7.70	29.20	55.11	57.54	39.33	74.00	-34.67	peak
4924.000	9.03	32.20	56.25	65.58	50.56	74.00	-23.44	peak
7386.000	11.19	36.73	56.39	56.64	48.17	74.00	-25.83	peak
9848.000	12.84	37.83	54.24	53.18	49.61	74.00	-24.39	peak
pp11302.480	14.39	39.70	53.59	50.12	50.62	74.00	-23.38	peak



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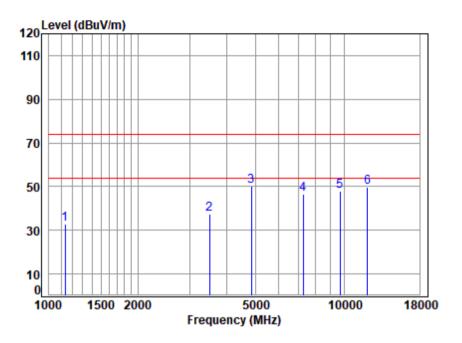


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2422 TX RSE

: 2.4G Wi-Fi 11n40

		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	1135.617	7.13	25.46	54.70	54.96	32.85	74.00	-41.15	peak
2	3505.809	7.73	29.62	55.30	55.57	37.62	74.00	-36.38	Peak
3	pp 4844.000	8.94	32.08	56.19	65.46	50.29	74.00	-23.71	peak
4	7266.000	11.10	36.63	56.49	55.16	46.40	74.00	-27.60	peak
5	9688.000	12.61	38.70	54.38	50.99	47.92	74.00	-26.08	peak
6	12009.760	14.35	39.79	53.81	49.50	49.83	74.00	-24.17	peak



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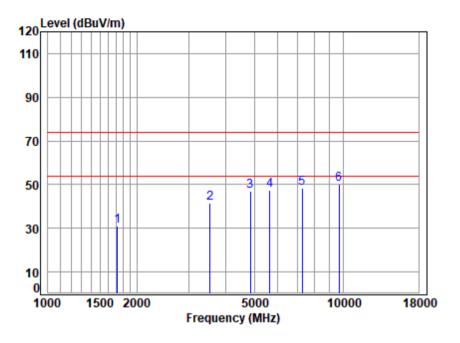


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Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2422 TX RSE

: 2.4G Wi-Fi 11n40

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	4D				dD:///m	dD.M/m	dB	
		МПZ	uв	ub/m	dB	abuv	ubuv/m	ubuv/m	ub	
1		1721.834	7.21	25.19	54.70	53.41	31.11	74.00	-42.89	Peak
2		3546.577	7.74	29.79	55.33	59.50	41.70	74.00	-32.30	Peak
3		4844.000	8.94	32.08	56.19	62.29	47.12	74.00	-26.88	peak
4		5648.176	9.73	33.10	56.69	61.13	47.27	74.00	-26.73	Peak
5		7266.000	11.10	36.63	56.49	57.26	48.50	74.00	-25.50	peak
6	pp	9688.000	12.61	38.70	54.38	53.21	50.14	74.00	-23.86	peak



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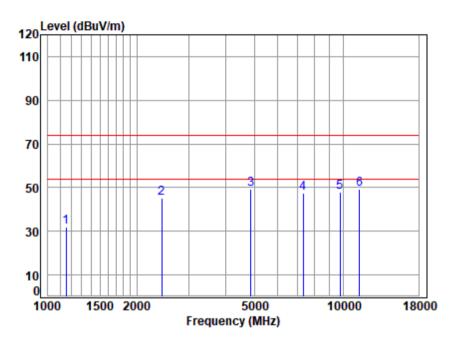


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Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2437 TX RSE

: 2.4G Wi-Fi 11n40

		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	1152.148	7.15	25.40	54.70	54.03	31.88	74.00	-42.12	peak
2	2428.671	7.37	27.56	54.83	65.18	45.28	74.00	-28.72	peak
3	pp 4874.000	8.97	32.15	56.21	64.50	49.41	74.00	-24.59	peak
4	7311.000	11.11	36.72	56.45	56.21	47.59	74.00	-26.41	peak
5	9748.000	12.80	38.60	54.33	50.96	48.03	74.00	-25.97	peak
6	11335.190	14.29	39.70	53.60	48.67	49.06	74.00	-24.94	peak



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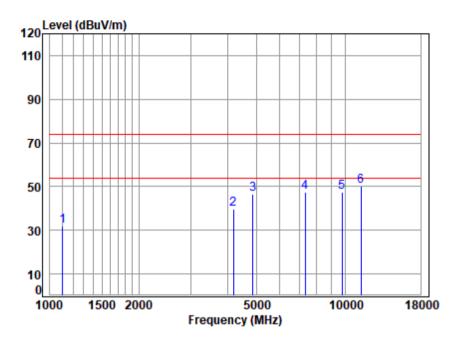


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2437 TX RSE

: 2.4G Wi-Fi 11n40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1106.457	7.11	25.57	54.70	53.83	31.81	74.00	-42.19	peak
2	4181.768	8.48	30.69	55.73	56.38	39.82	74.00	-34.18	Peak
3	4874.000	8.97	32.15	56.21	61.82	46.73	74.00	-27.27	peak
4	7311.000	11.11	36.72	56.45	56.10	47.48	74.00	-26.52	peak
5	9748.000	12.80	38.60	54.33	50.17	47.24	74.00	-26.76	peak
6	pp11302.480	14.39	39.70	53.59	49.69	50.19	74.00	-23.81	peak



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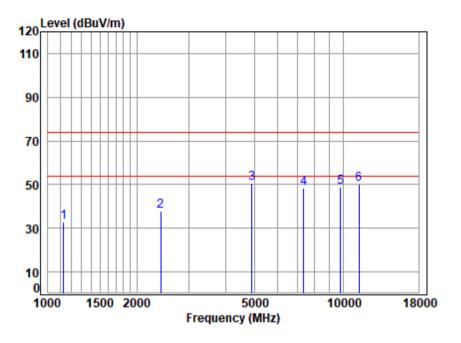


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Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2452 TX RSE

: 2.4G Wi-Fi 11n40

		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		
	4430 340	7.43	25 47	F4 70	FF 07	20.07	74.00	44 02		
	1132.340	7.13	25.4/	54.70	55.07	32.97	74.00	-41.03	peak	
•	2414.672	7.38	27.53	54.82	57.86	37.95	74.00	-36.05	peak	
,	pp 4904.000	9.00	32.20	56.23	65.51	50.48	74.00	-23.52	peak	
Ļ	7356.000	11.16	36.79	56.42	56.73	48.26	74.00	-25.74	peak	
,	9808.000	12.96	38.47	54.27	51.62	48.78	74.00	-25.22	peak	
,	11302.480	14.39	39.70	53.59	49.86	50.36	74.00	-23.64	peak	



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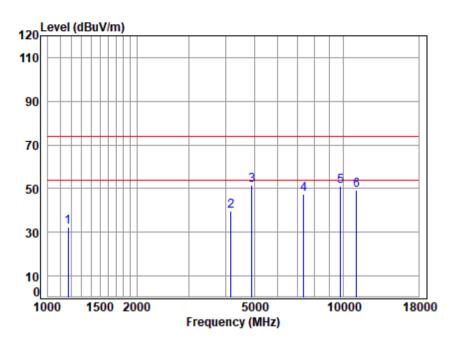


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2452 TX RSE

: 2.4G Wi-Fi 11n40

		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	1168.920	7.16	25.36	54.70	54.52	32.34	74.00	-41.66	peak
2	4169.698								•
3	pp 4904.000	9.00	32.20	56.23	66.39	51.36	74.00	-22.64	peak
4	7356.000	11.16	36.79	56.42	56.07	47.60	74.00	-26.40	peak
5	9808.000	12.96	38.47	54.27	53.91	51.07	74.00	-22.93	peak
6	11108.160	14.13	39.51	53.53	49.35	49.46	74.00	-24.54	peak



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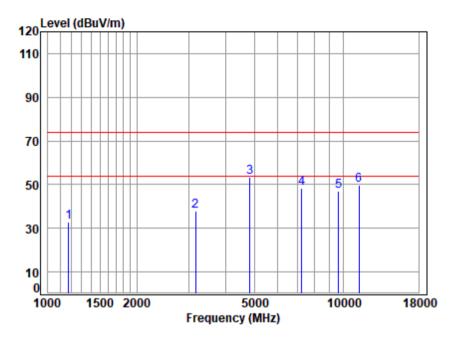


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 85 of 212

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2412 TX RSE

: 2.4G Wi-Fi 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	1175.697	7.17	25.35	54.70	54.92	32.74	74.00	-41.26	peak
2	3159.355	7.70	29.20	55.10	55.96	37.76	74.00	-36.24	peak
3	pp 4824.000	8.92	32.00	56.18	68.71	53.45	74.00	-20.55	peak
4	7236.000	11.10	36.60	56.51	57.10	48.29	74.00	-25.71	peak
5	9648.000	12.49	38.70	54.42	50.45	47.22	74.00	-26.78	peak
6	11302.480	14.39	39.70	53.59	49.07	49.57	74.00	-24.43	peak



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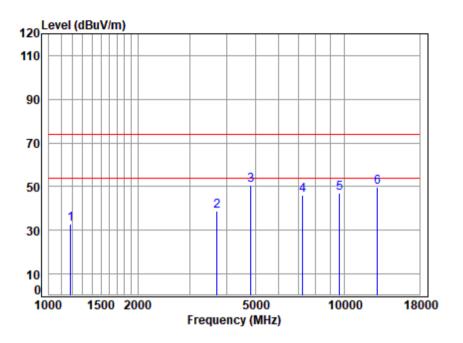


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2412 TX RSE

: 2.4G Wi-Fi 11ax20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1182.513	7.17	25.33	54.70	55.06	32.86	74.00	-41.14	peak
2	3714.443	7.91	29.83	55.43	56.42	38.73	74.00	-35.27	peak
3	pp 4824.000	8.92	32.00	56.18	66.12	50.86	74.00	-23.14	peak
4	7236.000	11.10	36.60	56.51	54.69	45.88	74.00	-28.12	peak
5	9648.000	12.49	38.70	54.42	50.14	46.91	74.00	-27.09	peak
6	12947.070	15.25	40.35	54.46	48.62	49.76	74.00	-24.24	peak



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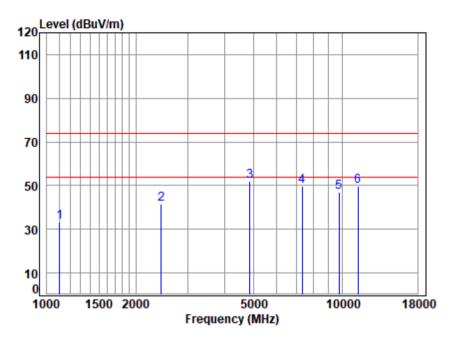


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

Page: 87 of 212

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2437 TX RSE

: 2.4G Wi-Fi 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	1106.457	7.11	25.57	54.70	55.30	33.28	74.00	-40.72	peak
2	2435.701	7.37	27.57	54.83	61.39	41.50	74.00	-32.50	peak
3	pp 4874.000	8.97	32.15	56.21	67.22	52.13	74.00	-21.87	peak
4	7311.000	11.11	36.72	56.45	58.23	49.61	74.00	-24.39	peak
5	9748.000	12.80	38.60	54.33	50.07	47.14	74.00	-26.86	peak
6	11302.480	14.39	39.70	53.59	49.17	49.67	74.00	-24.33	peak



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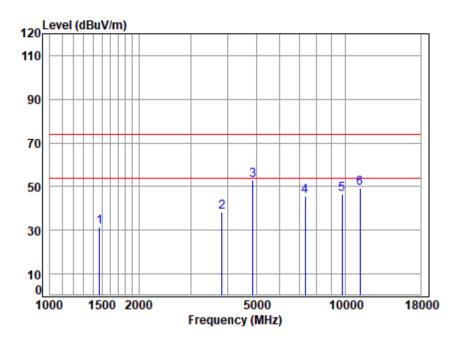


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2437 TX RSE

: 2.4G Wi-Fi 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	1473.013	7.22	25.01	54.70	54.15	31.68	74.00	-42.32	Peak
2	3823.371	8.02	29.85	55.49	56.01	38.39	74.00	-35.61	Peak
3	pp 4874.000	8.97	32.15	56.21	67.93	52.84	74.00	-21.16	peak
4	7311.000	11.11	36.72	56.45	54.13	45.51	74.00	-28.49	peak
5	9748.000	12.80	38.60	54.33	49.54	46.61	74.00	-27.39	peak
6	11237.330	14.30	39.64	53.57	48.94	49.31	74.00	-24.69	Peak



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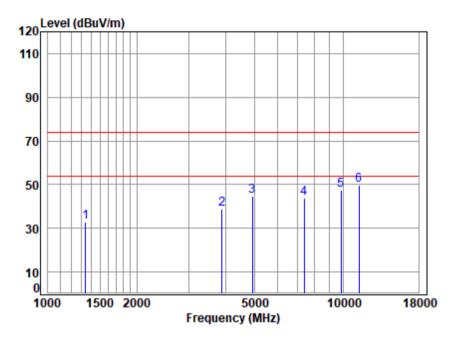


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Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2462 TX RSE

: 2.4G Wi-Fi 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	
	4242 000						<b></b>		
1	1342.882	/.18	25.11	54.70	55.15	32./4	/4.00	-41.26	peak
2	3890.255	8.06	29.88	55.53	56.25	38.66	74.00	-35.34	peak
3	4924.000	9.03	32.20	56.25	59.61	44.59	74.00	-29.41	peak
4	7386.000	11.19	36.73	56.39	52.33	43.86	74.00	-30.14	peak
5	9848.000	12.84	37.83	54.24	50.88	47.31	74.00	-26.69	peak
6	pp11302.480	14.39	39.70	53.59	49.30	49.80	74.00	-24.20	peak



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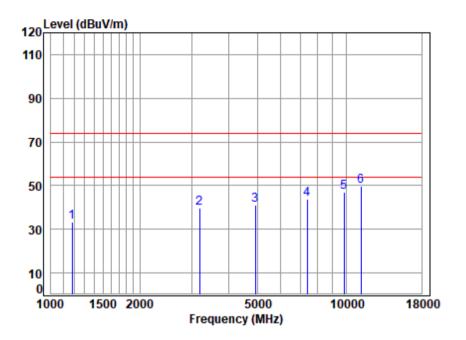


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Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2462 TX RSE

: 2.4G Wi-Fi 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	1179.100	7.17	25.34	54.70	55.62	33.43	74.00	-40.57	peak
2	3186.869	7.70	29.20	55.11	58.05	39.84	74.00	-34.16	peak
3	4924.000	9.03	32.20	56.25	56.20	41.18	74.00	-32.82	peak
4	7386.000	11.19	36.73	56.39	52.30	43.83	74.00	-30.17	peak
5	9848.000	12.84	37.83	54.24	50.52	46.95	74.00	-27.05	peak
6	pp11204.900	14.25	39.60	53.56	49.41	49.70	74.00	-24.30	peak



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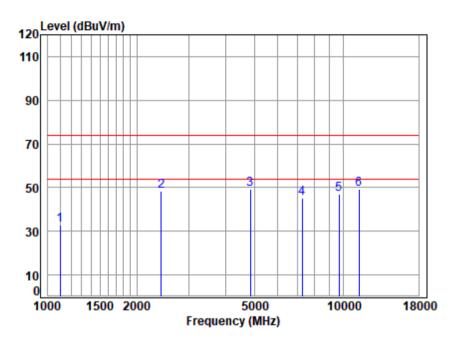


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Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2422 TX RSE

: 2.4G Wi-Fi 11ax40

		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	1100.079	7.10	25.60	54.70	54.84	32.84	74.00	-41.16	peak
2	2421.661	7.38	27.54	54.83	68.39	48.48	74.00	-25.52	peak
3	4844.000	8.94	32.08	56.19	64.23	49.06	74.00	-24.94	peak
4	7266.000	11.10	36.63	56.49	53.89	45.13	74.00	-28.87	peak
5	9688.000	12.61	38.70	54.38	50.24	47.17	74.00	-26.83	peak
6	pp11302.480	14.39	39.70	53.59	48.93	49.43	74.00	-24.57	peak



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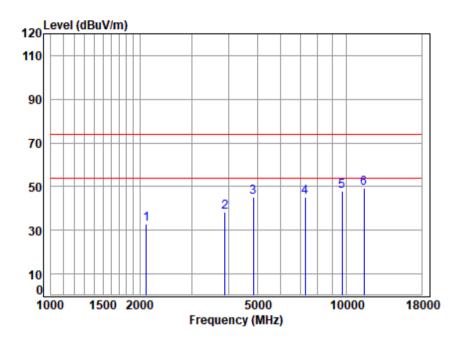


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Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2422 TX RSE

: 2.4G Wi-Fi 11ax40

		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	2107.950	7.28	27.18	54.73	53.05	32.78	74.00	-41.22	Peak
2	3890.255	8.06	29.88	55.53	56.06	38.47	74.00	-35.53	Peak
3	4844.000	8.94	32.08	56.19	60.53	45.36	74.00	-28.64	peak
4	7266.000	11.10	36.63	56.49	53.72	44.96	74.00	-29.04	peak
5	9688.000	12.61	38.70	54.38	50.87	47.80	74.00	-26.20	peak
6	pp11467.000	14.19	39.63	53.64	49.18	49.36	74.00	-24.64	Peak



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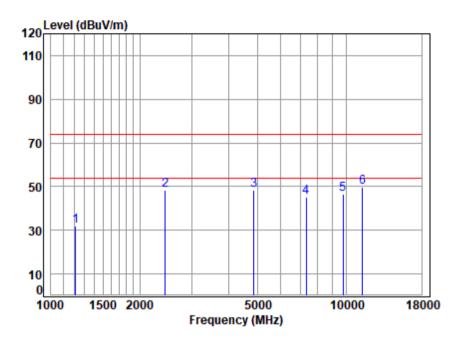


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Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2437 TX RSE

: 2.4G Wi-Fi 11ax40

	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	
1213.677	7.18	25.30	54.70	54.36	32.14	74.00	-41.86	peak
2435.701	7.37	27.57	54.83	68.46	48.57	74.00	-25.43	peak
4874.000	8.97	32.15	56.21	63.55	48.46	74.00	-25.54	peak
7311.000	11.11	36.72	56.45	53.92	45.30	74.00	-28.70	peak
9748.000	12.80	38.60	54.33	49.66	46.73	74.00	-27.27	peak
pp11335.190	14.29	39.70	53.60	49.22	49.61	74.00	-24.39	peak



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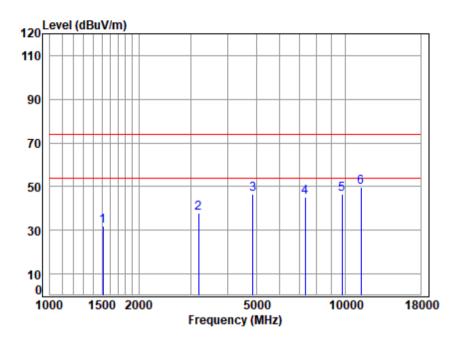


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Report No.: SZCR241200471904

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Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2437 TX RSE

: 2.4G Wi-Fi 11ax40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	ав	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1511.833	7.21	24.92	54.70	54.39	31.82	74.00	-42.18	Peak
2	3186.869	7.70	29.20	55.11	55.96	37.75	74.00	-36.25	Peak
3	4874.000	8.97	32.15	56.21	61.57	46.48	74.00	-27.52	peak
4	7311.000	11.11	36.72	56.45	53.64	45.02	74.00	-28.98	peak
5	9748.000	12.80	38.60	54.33	49.70	46.77	74.00	-27.23	peak
6	pp11302.480	14.39	39.70	53.59	49.16	49.66	74.00	-24.34	peak



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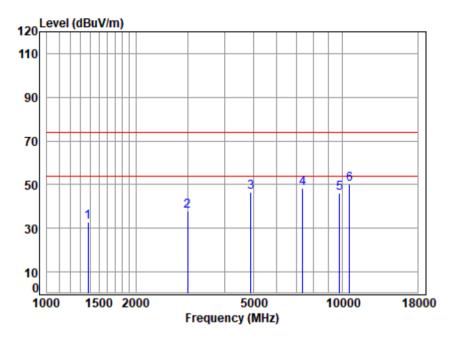


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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2452 TX RSE

: 2.4G Wi-Fi 11ax40

	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	
1378.273	7.20	25.04	54.70	55.43	32.97	74.00	-41.03	peak
2999.187	8.18	29.00	55.00	55.69	37.87	74.00	-36.13	peak
4904.000	9.00	32.20	56.23	61.45	46.42	74.00	-27.58	peak
7356.000	11.16	36.79	56.42	56.74	48.27	74.00	-25.73	peak
9808.000	12.96	38.47	54.27	48.90	46.06	74.00	-27.94	peak
pp10606.150	13.38	39.31	53.74	51.09	50.04	74.00	-23.96	peak



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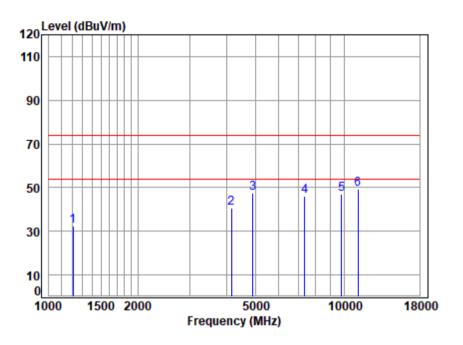


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Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2452 TX RSE

: 2.4G Wi-Fi 11ax40

		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		
	4206 602	7.40	25.20	E4 70	F4 60	20.40	74.00	44 50		
	1206.682								•	
•	4157.664	8.45	30.55	55.71	57.20	40.49	74.00	-33.51	peak	
,	4904.000	9.00	32.20	56.23	62.70	47.67	74.00	-26.33	peak	
Ļ	7356.000	11.16	36.79	56.42	54.47	46.00	74.00	-28.00	peak	
,	9808.000	12.96	38.47	54.27	49.99	47.15	74.00	-26.85	peak	
,	pp11140.310	14.17	39.54	53.54	49.22	49.39	74.00	-24.61	peak	



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### 7.5 Conducted Peak Output Power

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

#### Limit:

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

### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C Humidity: 46.8 % RH Atmospheric Pressure: 1020 mbar

### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.



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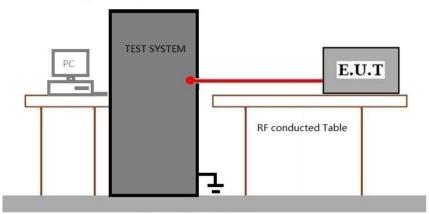


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#### 7.5.3 Test Setup Diagram



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

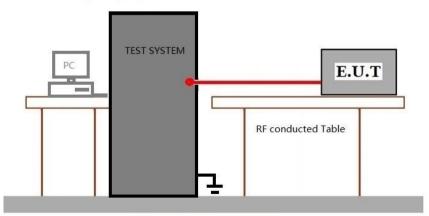
Operating Environment:

Temperature: 21.4 °C Atmospheric Pressure: 1020 mbar Humidity: 46.8 % RH

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

### 7.6.3 Test Setup Diagram



Ground Reference Plane

#### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.7 Power Spectrum Density

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

Limit:

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

### 7.7.1 E.U.T. Operation

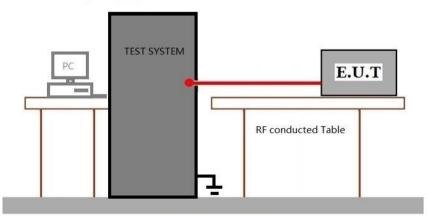
Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 21.4 °C Humidity: 46.8 % RH

#### 7.7.2 Test Mode Description

the same and the same same same same same same same sam							
Pre-scan / Final test	Mode Code	Description					
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.					

### 7.7.3 Test Setup Diagram



Ground Reference Plane

#### 7.7.4 Measurement Procedure and Data

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: 21.4 °C Humidity: 46.8 % 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 continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.



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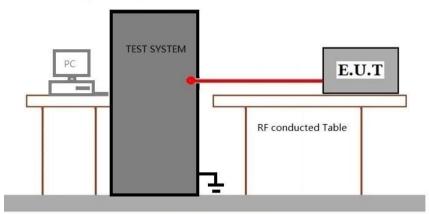


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### 7.8.3 Test Setup Diagram



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: 21.4 °C Humidity: 46.8 % 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 continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.



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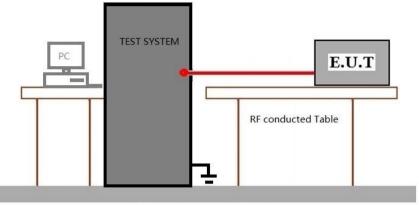
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#### 7.9.3 Test Setup Diagram



Ground Reference Plane

#### 7.9.4 Measurement Procedure and Data

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## **Test Setup Photo**

Refer to Setup Photo for SZCR2412004719AT

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

Refer to External and Internal Photos for SZCR2412004719AT



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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 (%)
		2412	/	/	0.235	0.249	94.38	0.25	0.08
802.11b	SISO	2437	/	/	0.235	0.249	94.38	0.25	0.03
		2462	/	/	0.235	0.249	94.38	0.25	0.08
	SISO	2412	/	/	2.096	2.112	99.24	0.03	0.03
802.11g		2437	/	/	2.096	2.112	99.24	0.03	0.03
		2462	/	/	2.097	2.113	99.24	0.03	0.03
000.44	MIMO	2412	/	/	5.328	5.344	99.70	0.01	0.03
802.11n (HT20)		2437	/	/	5.328	5.345	99.68	0.01	0.03
(11120)		2462	/	/	5.328	5.345	99.68	0.01	0.03
000.44	MIMO	2422	/	/	5.412	5.429	99.69	0.01	0.03
802.11n (HT40)		2437	/	/	5.412	5.428	99.71	0.01	0.04
		2452	/	/	5.412	5.428	99.71	0.01	0.04
000 44	MIMO	2412	SU	/	5.338	5.354	99.70	0.01	0.04
802.11ax (HEW20)		2437	SU	/	5.337	5.354	99.68	0.01	0.03
(1127720)		2462	SU	/	5.337	5.353	99.70	0.01	0.03
	МІМО	2422	SU	/	5.390	5.406	99.70	0.01	0.04
802.11ax (HEW40)		2437	SU	/	5.391	5.406	99.72	0.01	0.00
(1120070)		2452	SU	/	5.391	5.406	99.72	0.01	0.00



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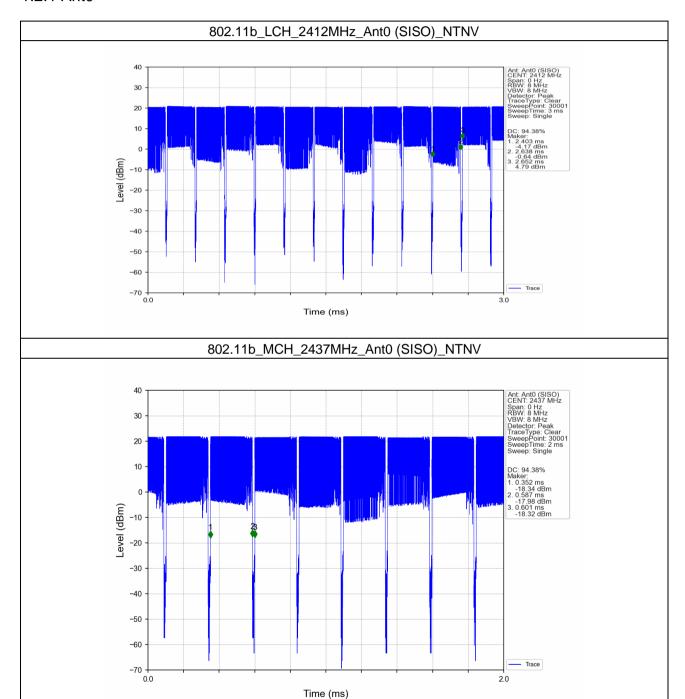
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### 1.2 Test Graph

#### 1.2.1 Ant0





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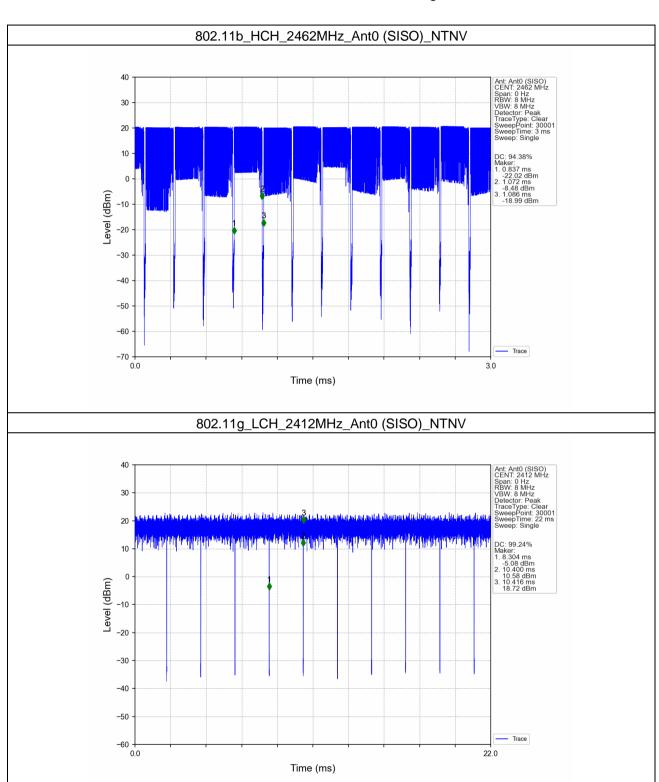
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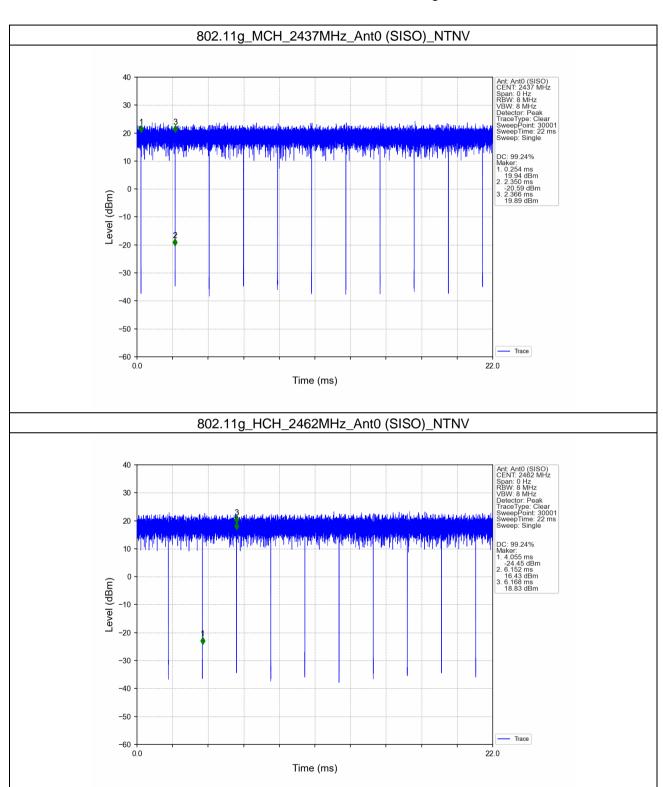
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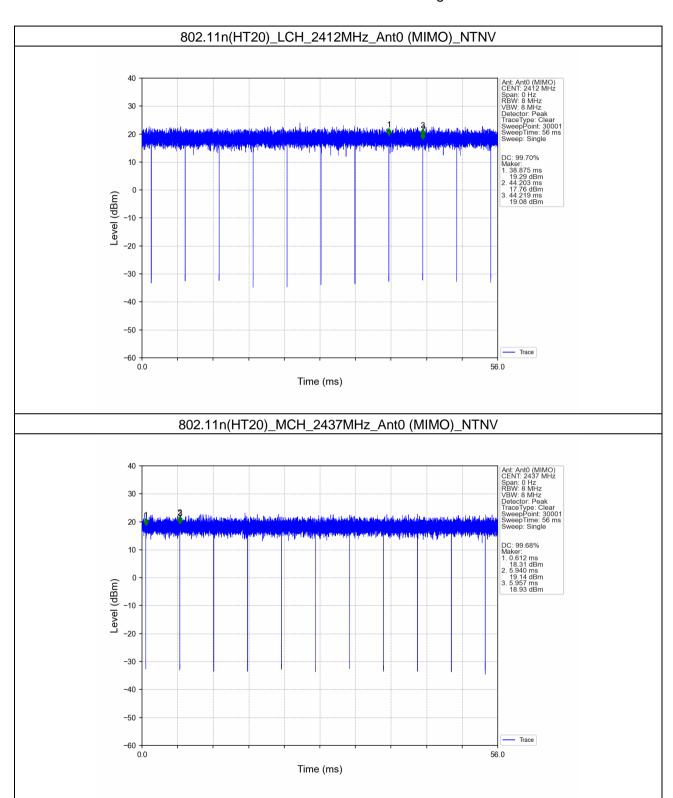
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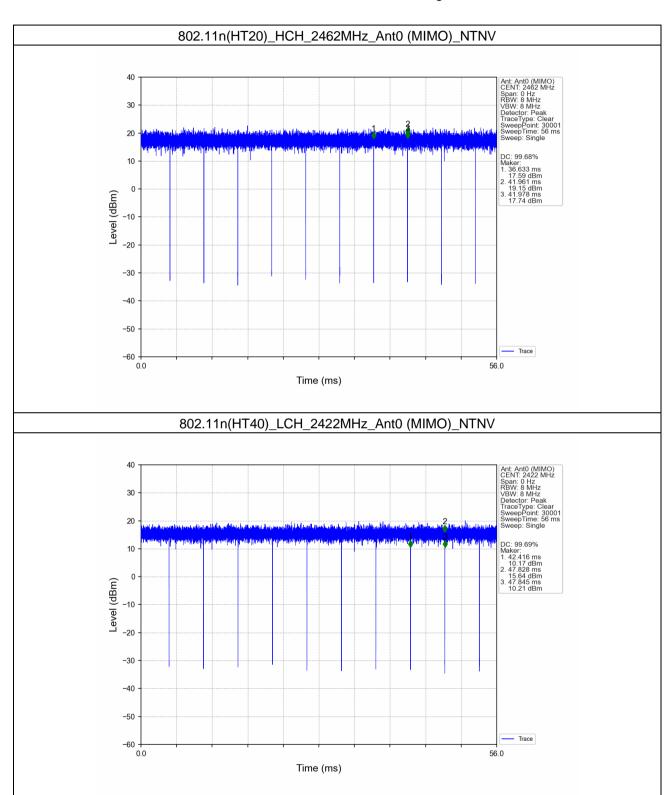
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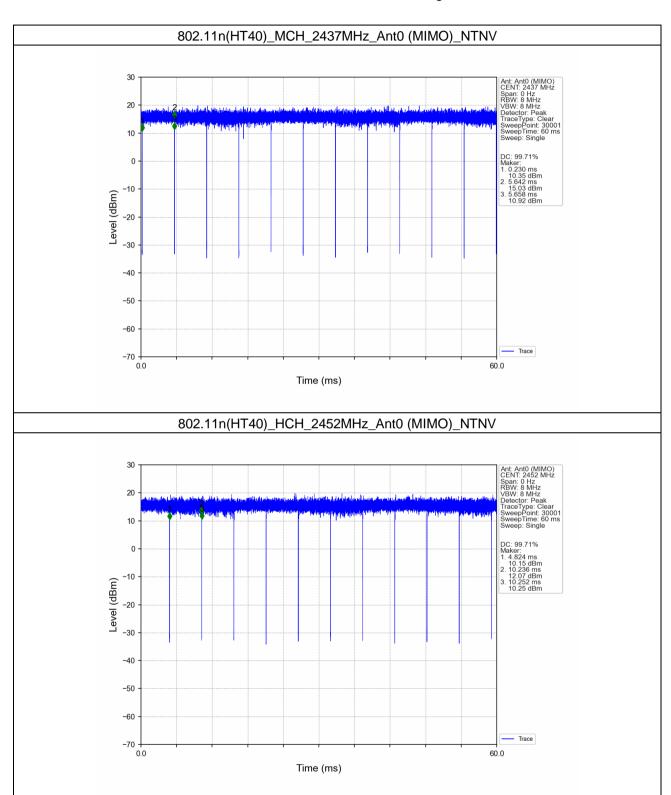
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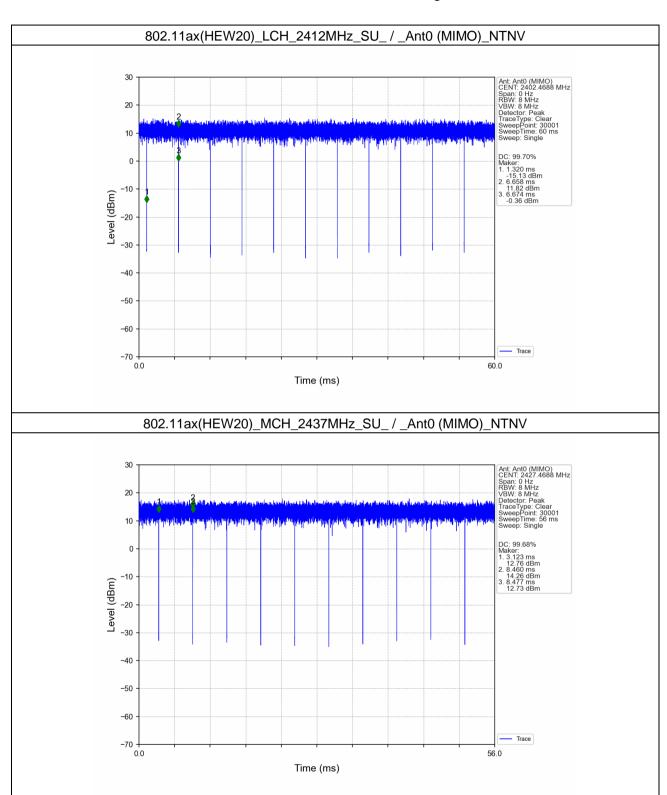
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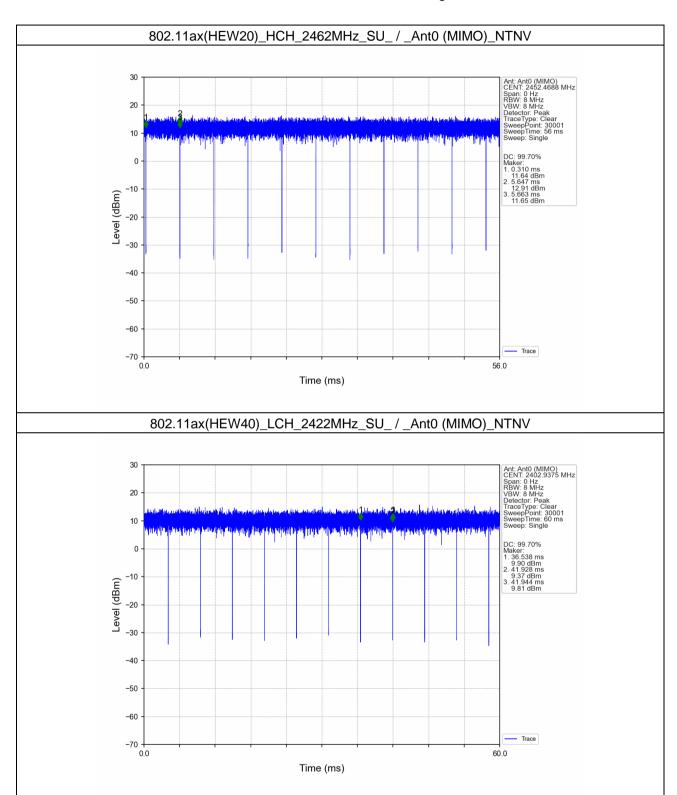
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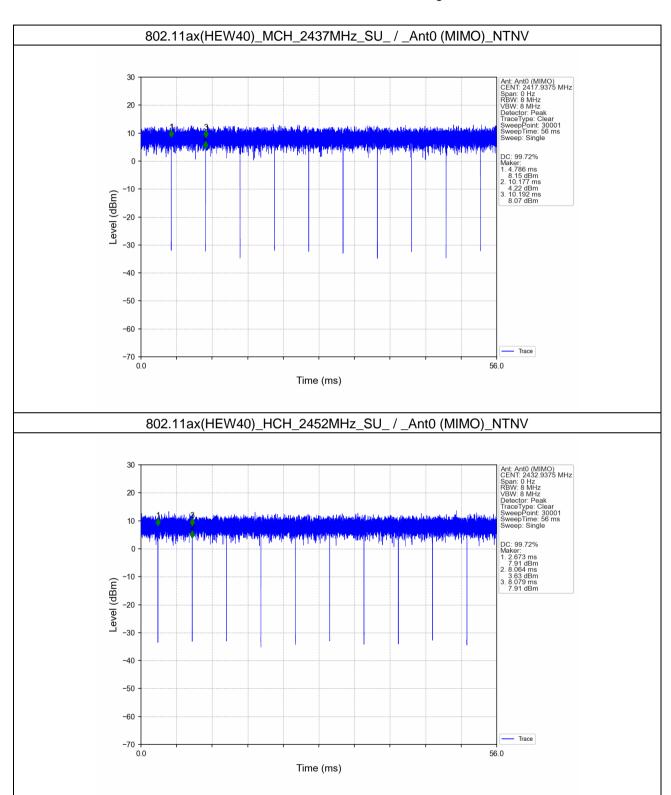
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### 2. Bandwidth

### 2.1 Test Result

### 2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		\
						Result	Limit	Verdict
802.11b	SISO	2412	/	/	0	13.092	/	Pass
		2437	/	/	0	12.987	/	Pass
		2462	/	/	0	13.077	/	Pass
802.11g	SISO	2412	/	/	0	16.633	/	Pass
		2437	/	/	0	16.773	/	Pass
		2462	/	/	0	16.634	/	Pass
802.11n (HT20)	MIMO	2412	/	/	0	17.791	/	Pass
		2437	/	/	0	17.766	/	Pass
		2462	/	/	0	17.804	/	Pass
802.11n (HT40)	MIMO	2422	/	/	0	36.452	/	Pass
		2437	/	/	0	36.180	/	Pass
		2452	/	/	0	35.719	/	Pass
802.11ax (HEW20)	MIMO	2412	SU	/	0	18.971	/	Pass
		2437	SU	/	0	18.986	/	Pass
		2462	SU	/	0	19.031	/	Pass
802.11ax (HEW40)	MIMO	2422	SU	/	0	38.191	/	Pass
		2437	SU	/	0	37.876	/	Pass
		2452	SU	/	0	37.428	/	Pass



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### 2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Vardiat
						Result	Limit	Verdict
802.11b	SISO	2412	/	/	0	8.108	>=0.5	Pass
		2437	/	/	0	8.111	>=0.5	Pass
		2462	/	/	0	8.112	>=0.5	Pass
802.11g	SISO	2412	/	/	0	15.146	>=0.5	Pass
		2437	/	/	0	15.152	>=0.5	Pass
		2462	/	/	0	15.157	>=0.5	Pass
802.11n (HT20)	МІМО	2412	/	/	0	15.143	>=0.5	Pass
		2437	/	/	0	15.153	>=0.5	Pass
		2462	/	/	0	15.138	>=0.5	Pass
000.44	МІМО	2422	/	/	0	35.509	>=0.5	Pass
802.11n (HT40)		2437	/	/	0	35.128	>=0.5	Pass
		2452	/	/	0	32.583	>=0.5	Pass
802.11ax (HEW20)	MIMO	2412	SU	/	0	15.156	>=0.5	Pass
		2437	SU	/	0	15.528	>=0.5	Pass
		2462	SU	/	0	16.522	>=0.5	Pass
802.11ax (HEW40)	MIMO	2422	SU	/	0	37.331	>=0.5	Pass
		2437	SU	/	0	36.990	>=0.5	Pass
		2452	SU	/	0	33.842	>=0.5	Pass



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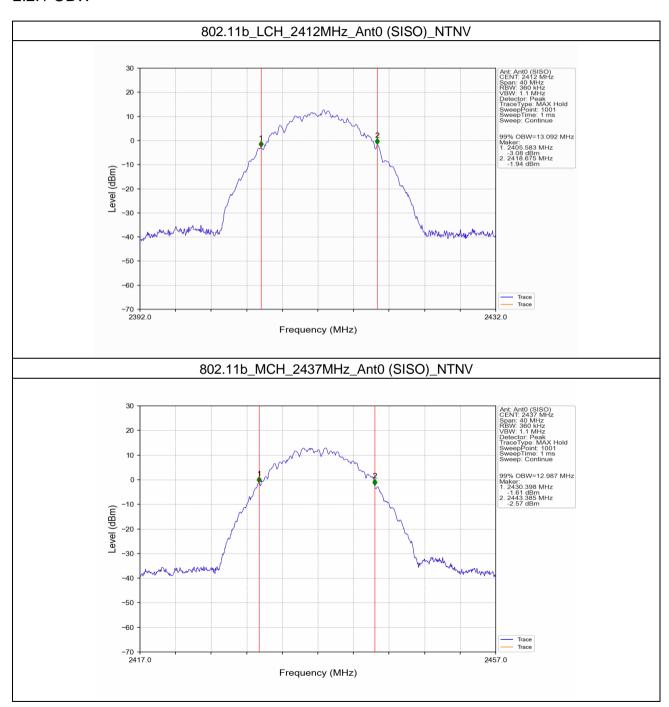
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### 2.2 Test Graph

### 2.2.1 OBW





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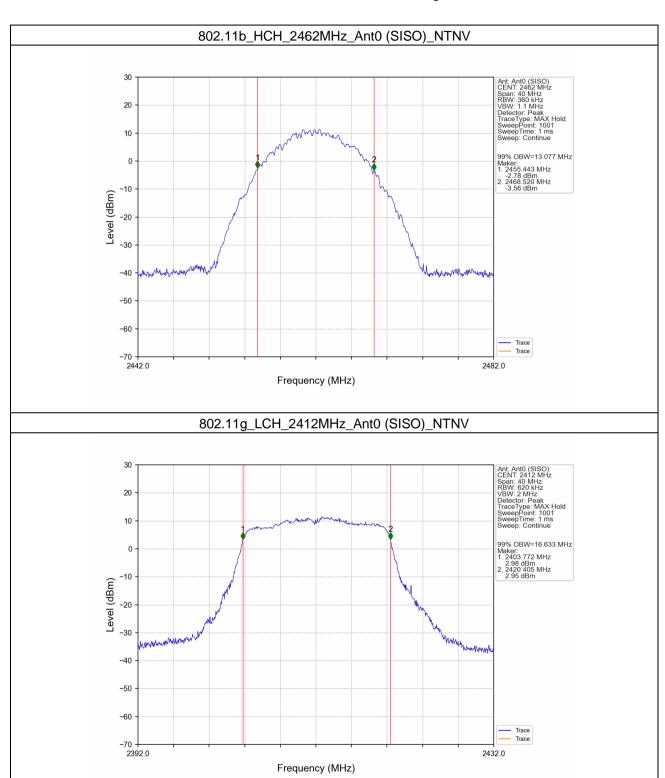
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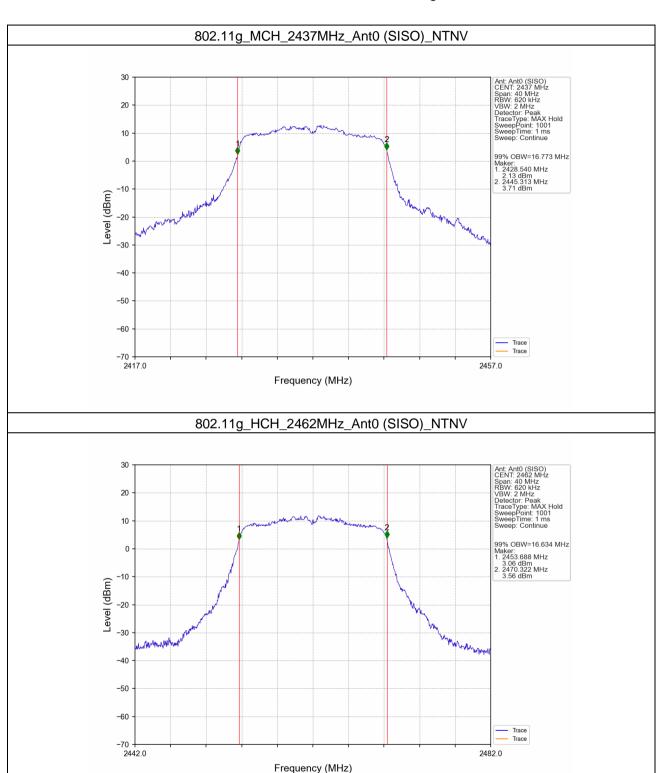
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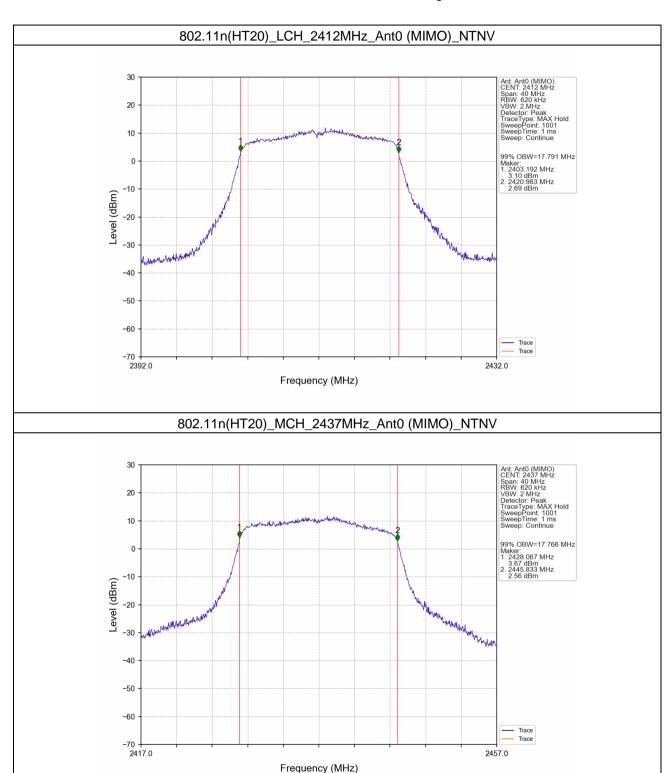
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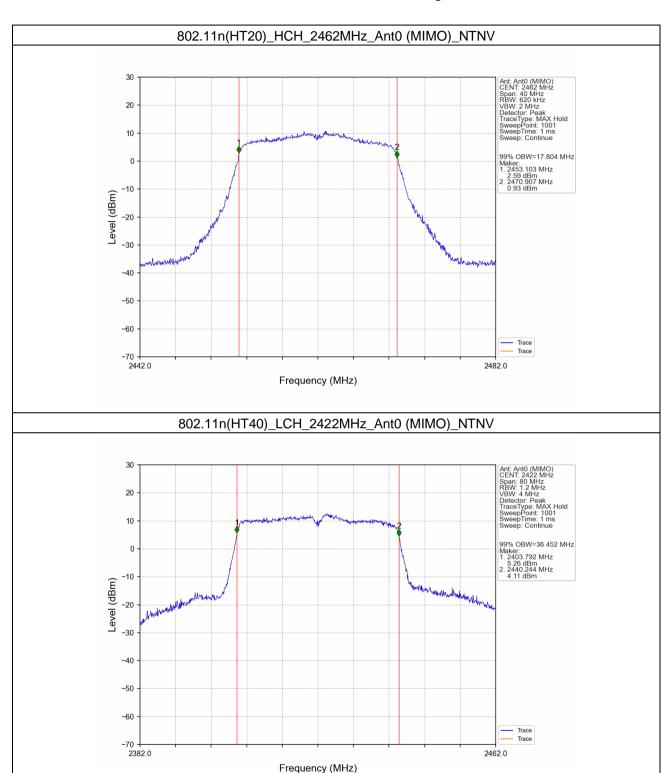
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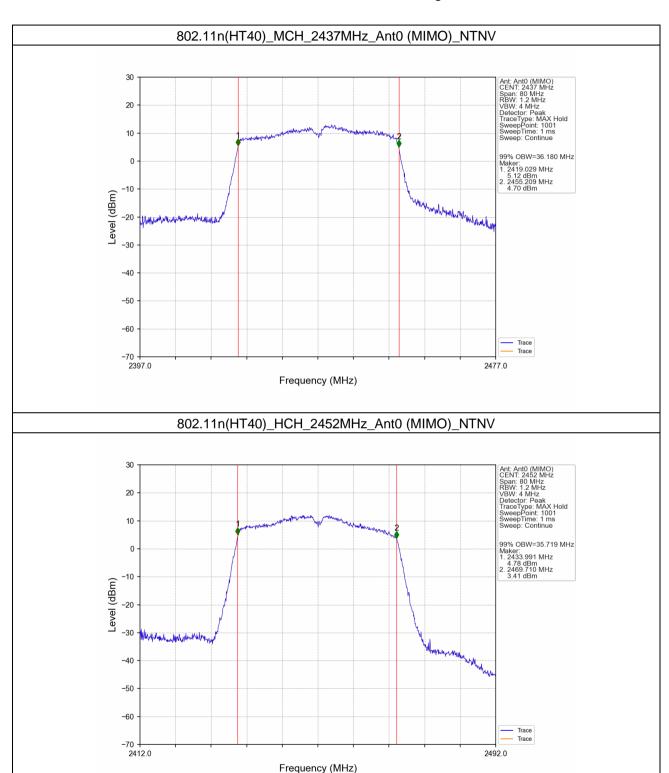
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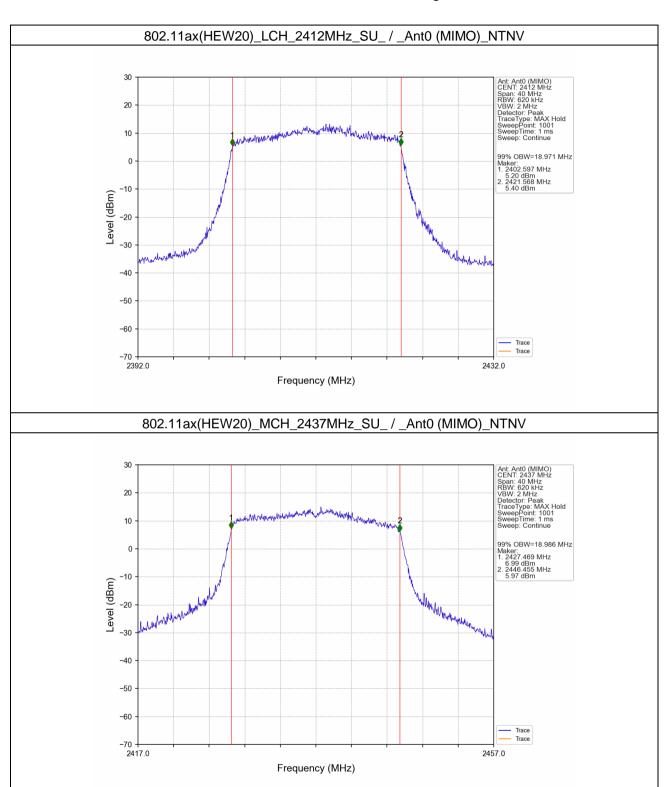
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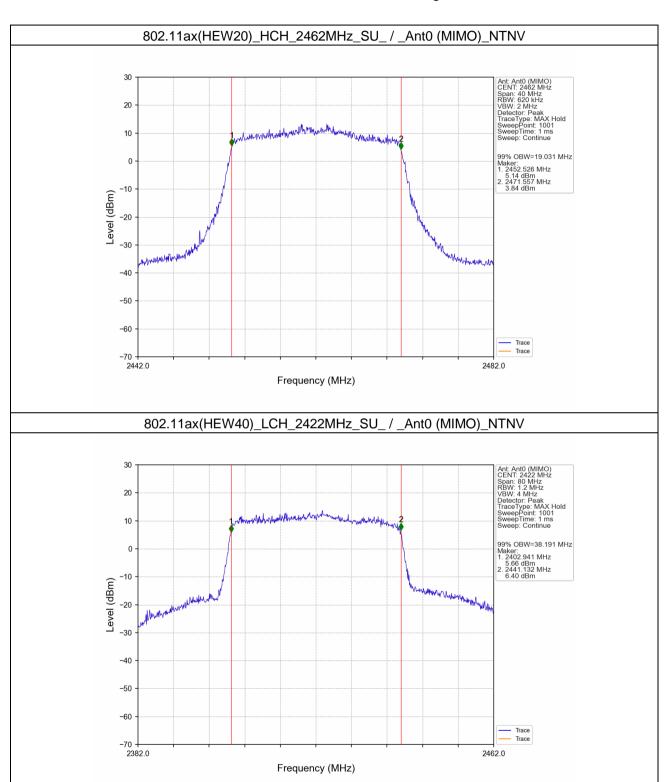
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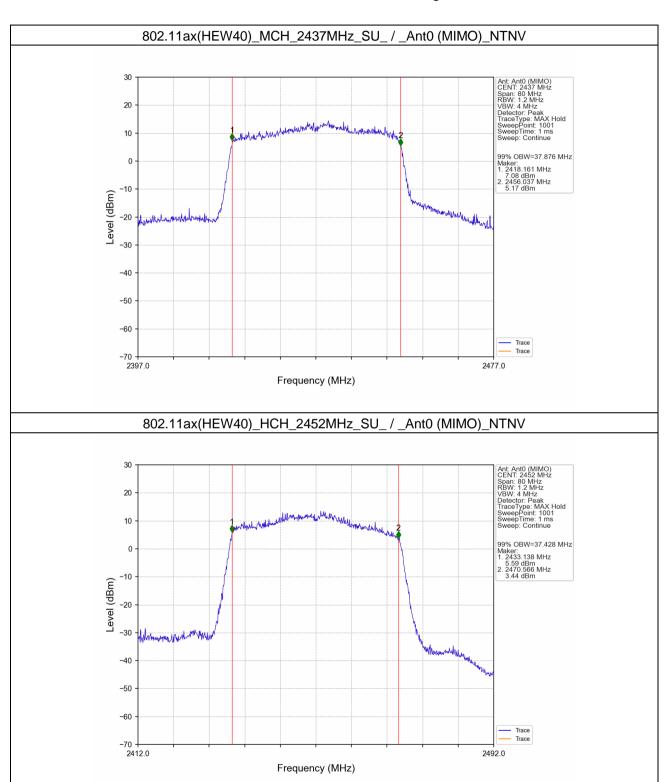
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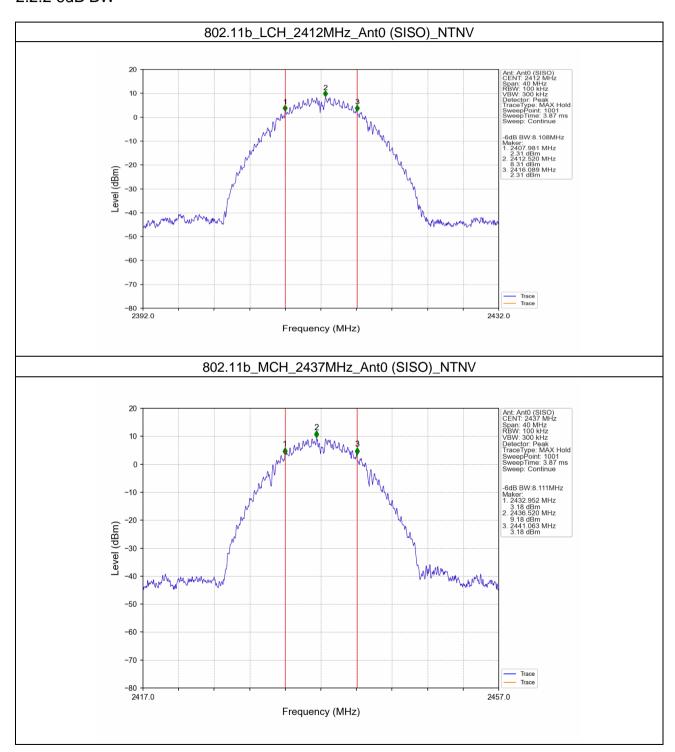


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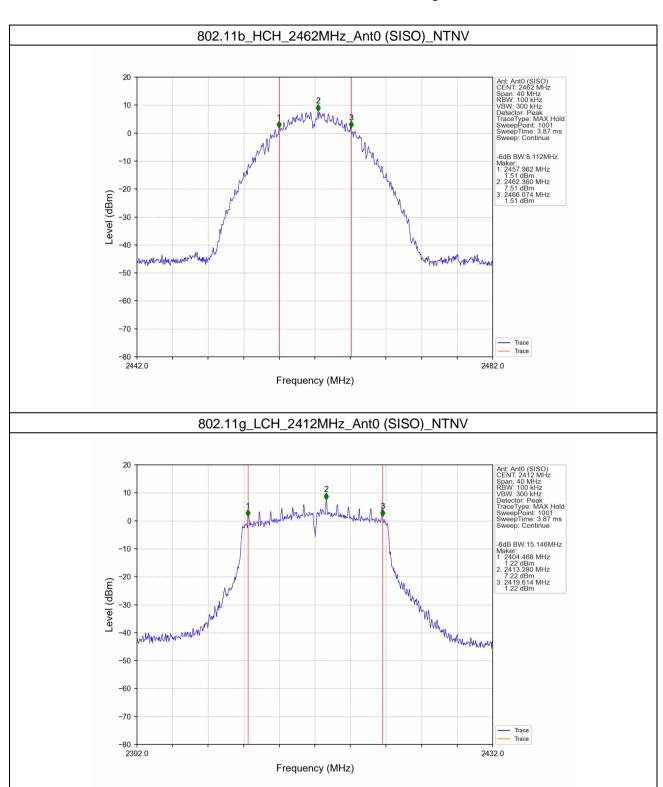
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