

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230200048902

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TEST REPORT

Application No.: SZCR2302000489AT **Applicant:** Ruijie Networks Co., Ltd.

Address of Applicant: Building 19, Juyuanzhou Industrial Park, No. 618 Jinshan Road, Cangshan

District, Fuzhou, Fujian 350002 China

Manufacturer: Ruijie Networks Co., Ltd.

Address of Manufacturer: Building 19, Juyuanzhou Industrial Park, No. 618 Jinshan Road, Cangshan

District, Fuzhou, Fujian 350002 China

Equipment Under Test (EUT):

EUT Name: Wireless Access Point

Model No.: RG-RAP2266

Trade Mark: Reyee Ruije Reyee Ruije Reyee

FCC ID: 2AX5J-RAP2266

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

Date of Receipt: 2023-02-28

Date of Test: 2023-02-28 to 2023-03-15

Date of Issue: 2023-03-20

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2023-03-20		Original			

Authorized for issue by:		
	Gebin Sun	
	Gebin Sun/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		
Conducted Average 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	47 CFR Part 15,	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Conducted Spurious Emissions	Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	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		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		



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4 General Information

4.1 Details of E.U.T.

Power supply:	12V 2.0A, PoE
Operation Frequency:	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:	802.11 g/n: OFDM(16QAM, 64QAM, QPSK, BPSK)
	802.11 ax: OFDMA(16QAM, 64QAM, 256QAM, 1024QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n(HT20)/ax(HEW20): 11
Number of Channels.	802.11n(HT40)/ax(HEW40):7
Antenna Type:	PIFA Antenna
Antonna Cain:	Ant1: 3.14dBi
Antenna Gain:	Ant2: 3.53dBi

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

4.2 Description of Support Units

Description Manufacturer		Model No.	Serial No.	
Adapter	Supplied by SGS	DC12V	REF. No.SEA25C00	

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.0dB (150kHz to 30MHz)
Conducted Average Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 4.5dB
Radiated Spurious Emissions Above 1GHz	± 4.8dB

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/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, Shenzhen, Guangdong, China. 518057.

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

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.

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

Abnormalities from Standard Conditions

None



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Equipment List 5

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13	
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2022-03-23	2023-03-22	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2022-07-08	2023-07-07	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2022-09-20	2023-09-19	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2022-03-23	2023-03-22	

Conducted Average Output Power						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Power Sensor	TST PASS	TSPS2023R	SEM009-22	2022-09-21	2023-09-20	
Power Sensor	TST PASS	TSPS2023R	SEM009-23	2022-09-21	2023-09-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022-04-07	2023-04-06	

Minimum 6dB Bandwidt	th				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2022-03-23	2023-03-22
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022-04-07	2023-04-06

Power Spectrum Density							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2022-03-23	2023-03-22		
Measurement Software	surement Software TST PASS V2.0		N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07		
Attenuator Huber+Suhner		6620_SMA-50- 1	SEM021-09	2022-04-07	2023-04-06		



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Conducted Band Edges Measurement							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2022-03-23	2023-03-22		
Measurement Software	TST PASS TST PASS V2.0 N/A		N/A	N/A	N/A		
Coaxial Cable	Coaxial Cable SGS		SEM031-01	2022-07-08	2023-07-07		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022-04-07	2023-04-06		

Conducted Spurious Emissions							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2022-03-23	2023-03-22		
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A		
Coaxial Cable	Coaxial Cable SGS		SEM031-01	2022-07-08	2023-07-07		
Attenuator Huber+Suhner		6620_SMA-50- 1	SEM021-09	2022-04-07	2023-04-06		

Radiated Emissions which fall in the restricted bands							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01		
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2022-03-23	2023-03-22		
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23		
Microwave system amplifier	γ Ι ΔΛΙΙΔΝΙ		SEM005-25	2022-09-21	2023-09-20		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07		
Broad-Band Horn Antenna	Schwarzbeck		SEM003-15	2022-08-10	2024-08-09		
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2022-03-22	2023-03-21		



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Radiated Spurious Emissions Below 1GHz							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18		
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2022-10-20	2023-10-19		
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2021-09-17	2023-09-16		
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29		
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2022-03-22	2023-03-21		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM025-01	2022-07-08	2023-07-07		

Radiated Spurious Emissions Above 1GHz							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01		
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2022-03-23	2023-03-22		
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23		
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20		
Measurement Software AUDIX		e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07		

General used equipmen	t					
Equipment	Manufacturer	Model No. Inventory		Cal Date	Cal Due Date	
Humidity/ Temperature Indicator	Mingle	N/A	N/A SEM002-08		2023-09-03	
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022-09-04	2023-09-03	
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2022-03-28	2023-03-27	



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Radio Spectrum Technical Requirement 6

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is Ant1: 3.14dBi; Ant2: 3.53dBi

The EUT supports CDD, and all antenna gains are not equal, according to KDB662911 D01 2) f) (iii) guidelines:

Directional gain = G_{ANT} + Array Gain

the Directional gain = 3.53dBi(N_{ANT}≤ 4, Array Gain=0dB)

Antenna location: Refer to internal photo.



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Radio Spectrum Matter Test Results

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

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

Limit:

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 50.5 % RH Atmospheric Pressure: 1015 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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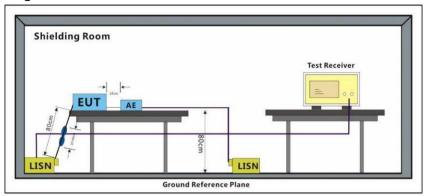


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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

Remark:

- 1)Level=Read Level+ Cable Loss+ LISN Factor
- 2) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.



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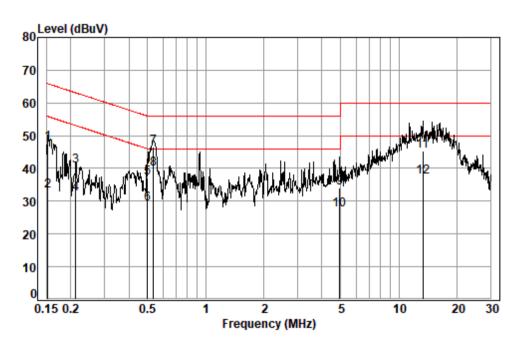


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Test Mode: 00; Line: Live line; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



: Shielding Room

Condition: Line Job No. : 00489AT

Test mode: 00

: DC 12V

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1524	0.03	9.65	38.13	47.81	65.87	-18.06	QP
2	0.1524	0.03	9.65	23.41	33.09	55.87	-22.78	Average
3	0.2128	0.04	9.65	31.06	40.75	63.10	-22.35	QP
4	0.2128	0.04	9.65	22.50	32.19	53.10	-20.91	Average
5	0.4994	0.05	9.64	27.41	37.10	56.01	-18.91	QP
6	0.4994	0.05	9.64	19.66	29.35	46.01	-16.66	Average
7 *	0.5378	0.06	9.64	36.80	46.50	56.00	-9.50	QP
8 *	0.5378	0.06	9.64	30.01	39.71	46.00	-6.29	Average
9	4.9519	0.15	9.70	24.12	33.97	56.00	-22.03	QP
10	4.9519	0.15	9.70	17.46	27.31	46.00	-18.69	Average
11	13.3372	0.15	9.85	35.38	45.38	60.00	-14.62	QP
12	13.3372	0.15	9.85	27.39	37.39	50.00	-12.61	Average



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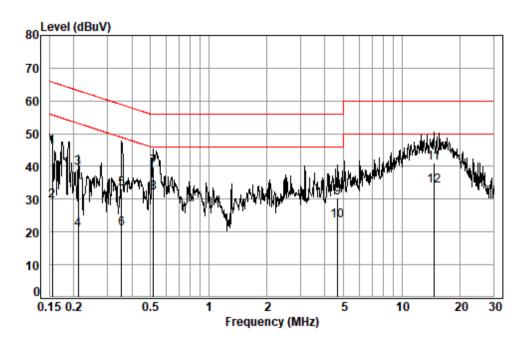


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Test Mode: 00; Line: Neutral Line; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



: Shielding Room

Condition: Neutral Job No. : 00489AT

Test mode: 00

: DC 12V

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1548	0.03	9.70	36.30	46.03	65.74	-19.71	QP
2	0.1548	0.03	9.70	19.64	29.37	55.74	-26.37	Average
3	0.2117	0.04	9.70	29.87	39.61	63.14	-23.53	QP
4	0.2117	0.04	9.70	11.02	20.76	53.14	-32.38	Average
5	0.3539	0.05	9.70	23.27	33.02	58.87	-25.85	QP
6	0.3539	0.05	9.70	11.17	20.92	48.87	-27.95	Average
7 *	0.5182	0.06	9.69	30.15	39.90	56.00	-16.10	QP
8 *	0.5182	0.06	9.69	22.32	32.07	46.00	-13.93	Average
9	4.6715	0.15	9.76	20.65	30.56	56.00	-25.44	QP
10	4.6715	0.15	9.76	13.61	23.52	46.00	-22.48	Average
11	14.6718	0.13	9.97	30.93	41.03	60.00	-18.97	QP
12	14.6718	0.13	9.97	24.08	34.18	50.00	-15.82	Average



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7.2 Conducted Average 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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C Humidity: 40.9 % RH Atmospheric Pressure: 1015 mbar

7.2.2 Test Mode Description

1.2.2 163t W		
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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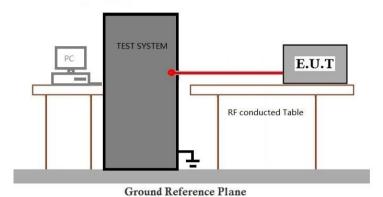


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7.2.3 Test Setup Diagram



7.2.4 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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7.3 Minimum 6dB Bandwidth

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

Limit:

≥500 kHz

7.3.1 E.U.T. Operation

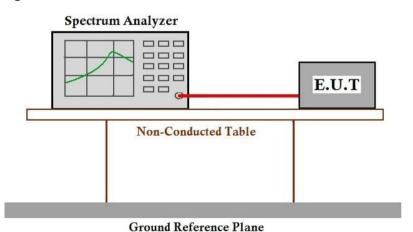
Operating Environment:

Temperature: 23.3 °C Humidity: 40.9 % RH Atmospheric Pressure: 1015 mbar

7.3.2 Test Mode Description

		· · · · · · · · · · · · · · · · · · ·
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.4 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

7.4.1 E.U.T. Operation

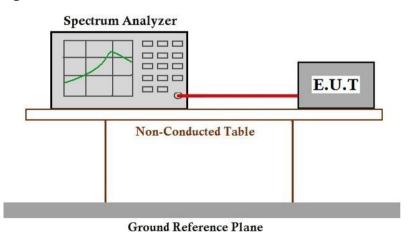
Operating Environment:

Temperature: 23.3 °C Humidity: 40.9 % RH Atmospheric Pressure: 1015 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.5 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15. Subpart C 15.247(d) ANSI C63.10 (2013) Section 11.13.3.2 Test Method:

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).

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C Atmospheric Pressure: 1015 mbar Humidity: 40.9 % RH

7.5.2 Test Mode Description

7.0.2 Test mede bescription								
Pre-scan / Final test	Mode Code	Description						
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested 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 @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.						



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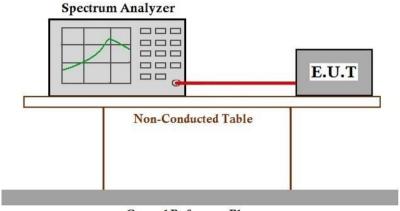


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7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 Conducted Spurious Emissions

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

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).

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C Atmospheric Pressure: 1015 mbar Humidity: 40.9 % RH

7.6.2 Test Mode Description

1.0.2 Test made Beschption								
Pre-scan / Final test	Mode Code	Description						
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.						



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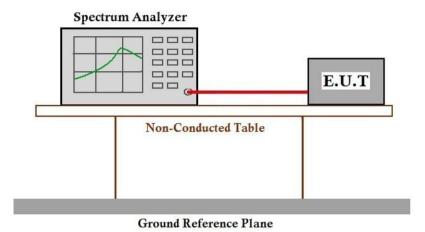


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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 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

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.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.8 °C Humidity: 47.7 % RH Atmospheric Pressure: 1015 mbar

7.7.2 Test Mode Description

7.7.2 Tool Mode Description								
Pre-scan / Final test	Mode Code	Description						
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.						



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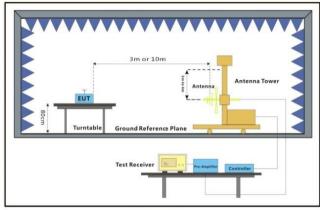


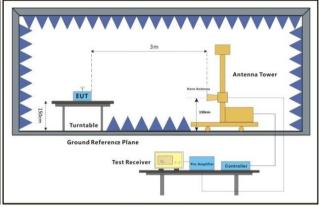
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7.7.3 Test Setup Diagram





30MHz-1GHz Above 1GHz



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7.7.4 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.
- j. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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

Remark 3:For the tests were conducted in all transmitted mode(including ANT1, ANT2 and MIMO) and only the worst-case MIMO mode is recorded in the test report.



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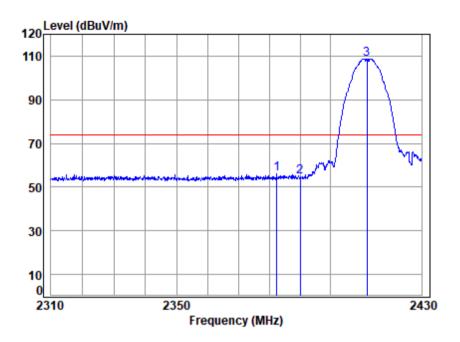


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2412 Band edge : 2.4G WIFI 11B Note

	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
2382.355	4.24	28.73	35.21	58.27	56.03	74.00	-17.97	peak	
2390.000	4.25	28.76	35.21	57.13	54.93	74.00	-19.07	peak	
2412.000	4.27	28.87	35.20	110.88	108.82	74.00	34.82	peak	



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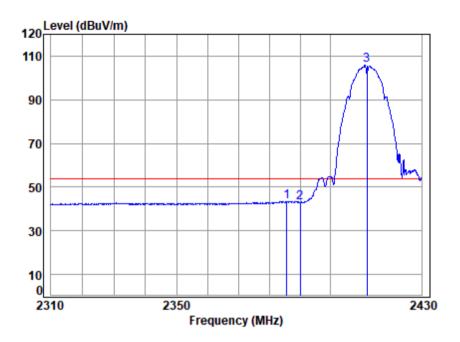


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2412 Band edge : 2.4G WIFI 11B Note

	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
2385.736	4.24	28.74	35.21	45.61	43.38	54.00	-10.62	Average	
2390.000	4.25	28.76	35.21	45.09	42.89	54.00	-11.11	Average	
. 2412.000	4.27	28.87	35.20	107.75	105.69	54.00	51.69	Average	



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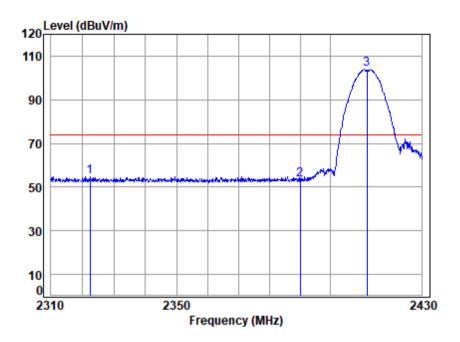


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2412 Band edge : 2.4G WIFI 11B Note

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2322.316	4.18	28.49	35.24	57.39	54.82	74.00	-19.18	Peak
2390.000	4.25	28.76	35.21	55.66	53.46	74.00	-20.54	Peak
2412.000	4.27	28.87	35.20	106.00	103.94	74.00	29.94	Peak



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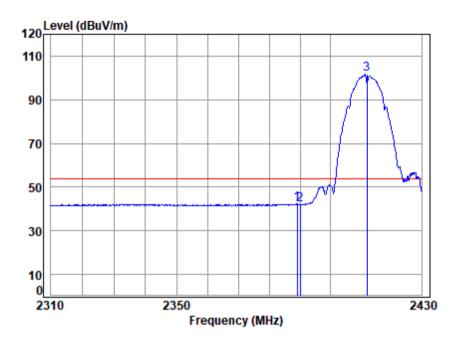


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Report No.: SZCR230200048902

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2412 Band edge : 2.4G WIFI 11B Note

_									
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2389.000	4.25	28.76	35.21	44.55	42.35	54.00	-11.65	Average
	2390.000	4.25	28.76	35.21	44.17	41.97	54.00	-12.03	Average
	2412 000	4 27	28 87	35 20	103 59	101 53	54 00	47 53	Average



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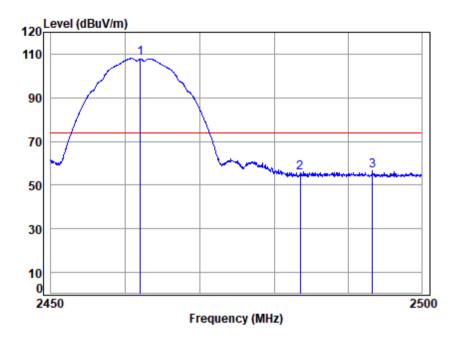


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Report No.: SZCR230200048902

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2462 Band edge : 2.4G WIFI 11B Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1.	2462.000	4.32	29.17	35.17	109.62	107.94	74.00	33.94	peak
2	2483.500	4.34	29.30	35.17	57.02	55.49	74.00	-18.51	peak
	2493.342								•



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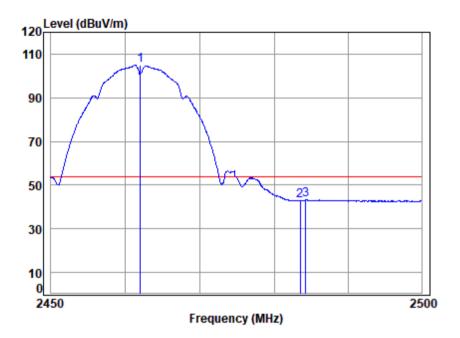


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2462 Band edge : 2.4G WIFI 11B Note

		Freq				Read Level				Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		2462.000	4.32	29.17	35.17	106.49	104.81	54.00	50.81	Average	
2		2483.500	4.34	29.30	35.17	44.37	42.84	54.00	-11.16	Average	
3		2484.292	4.34	29.31	35.16	44.99	43.48	54.00	-10.52	Average	



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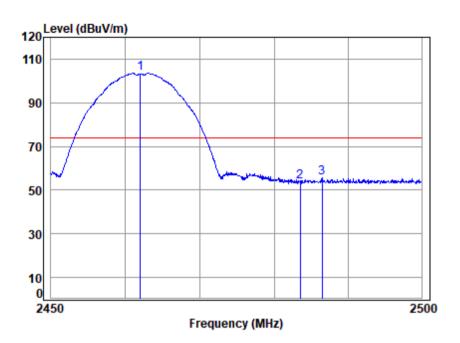


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2462 Band edge : 2.4G WIFI 11B Note

	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1.	2462.000	4.32	29.17	35.17	105.23	103.55	74.00	29.55	Peak
2	2483.500	4.34	29.30	35.17	55.19	53.66	74.00	-20.34	Peak
3	2486.501	4.35	29.32	35.16	56.97	55.48	74.00	-18.52	Peak



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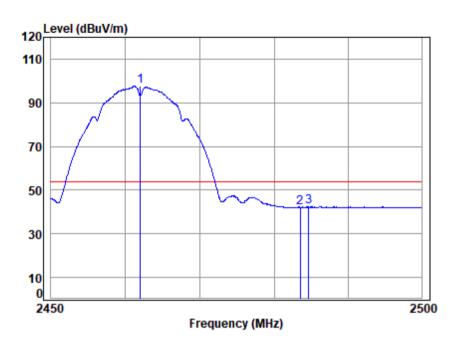


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2462 Band edge : 2.4G WIFI 11B Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1.	2462.000								_
2	2483.500	4.34	29.30	35.17	43.70	42.17	54.00	-11.83	Average
3	2484.643	4.35	29.31	35.16	43.83	42.33	54.00	-11.67	Average



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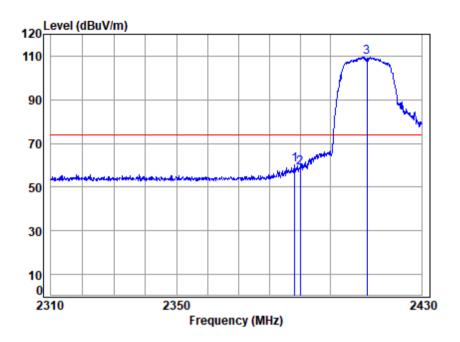


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00489AT\00490AT Job No Mode : 2412 Band edge : 2.4G WIFI 11G Note

	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
						-			
2388.274	4.25	28.75	35.21	62.58	60.37	74.00	-13.63	peak	
2390.000	4.25	28.76	35.21	60.92	58.72	74.00	-15.28	peak	
2412.000								•	



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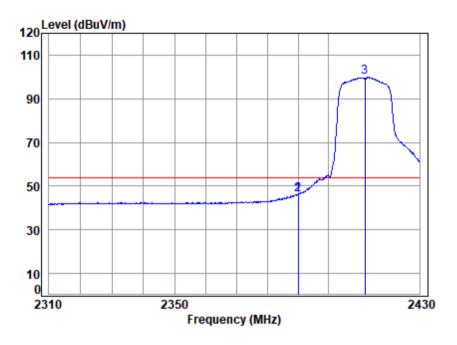


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2412 Band edge : 2.4G WIFI 11G Note

	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
									_
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
2389.968	4.25	28.76	35.21	48.29	46.09	54.00	-7.91	Average	
2390.000	4.25	28.76	35.21	48.29	46.09	54.00	-7.91	Average	
2412.000	4.27	28.87	35.20	101.94	99.88	54.00	45.88	Average	



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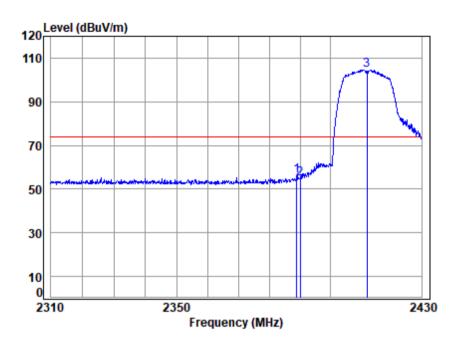


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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2412 Band edge : 2.4G WIFI 11G Note

_									
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2388.879	4.25	28.76	35.21	58.17	55.97	74.00	-18.03	Peak
	2390.000	4.25	28.76	35.21	56.96	54.76	74.00	-19.24	Peak
	2412 000	4 27	28 87	35 20	106 76	104 70	74 00	30 70	Peak



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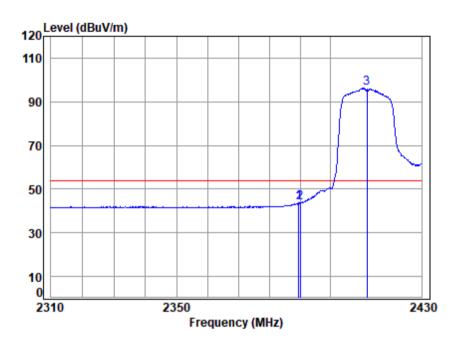


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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2412 Band edge : 2.4G WIFI 11G Note

_		TO MILI	1 110							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2389.484	4.25	28.76	35.21	46.00	43.80	54.00	-10.20	Average	
2	2390.000	4.25	28.76	35.21	45.90	43.70	54.00	-10.30	Average	
	2412.000	4.27	28.87	35.20	98.26	96.20	54.00	42.20	Average	



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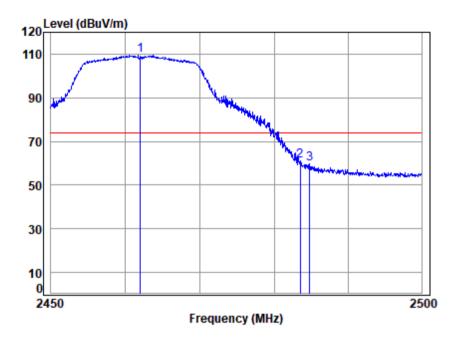


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2462 Band edge : 2.4G WIFI 11G Note

			Ant							
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB		
			,							
1.	2462.000	4.32	29.17	35.17	111.21	109.53	74.00	35.53	peak	
2	2483.500	4.34	29.30	35.17	62.62	61.09	74.00	-12.91	peak	
3	2484.793	4.35	29.31	35.16	61.24	59.74	74.00	-14.26	peak	



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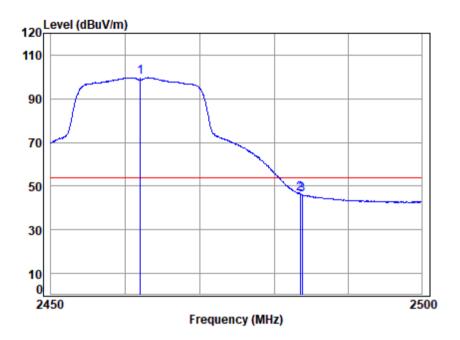


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2462 Band edge : 2.4G WIFI 11G Note

Freq						Limit Line		Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
2462.000	4.32	29.17	35.17	101.40	99.72	54.00	45.72	Average	
2483.500	4.34	29.30	35.17	47.92	46.39	54.00	-7.61	Average	
2483.790	4.34	29.30	35.16	47.52	46.00	54.00	-8.00	Average	



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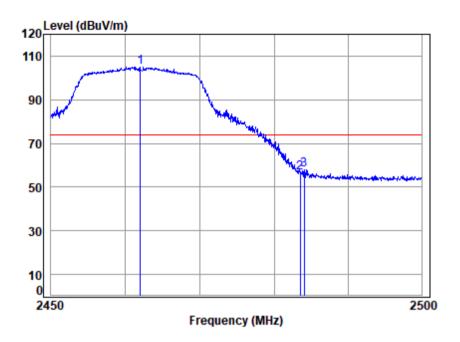


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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2462 Band edge : 2.4G WIFI 11G Note

	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1.	2462.000	4.32	29.17	35.17	106.81	105.13	74.00	31.13	Peak
2	2483.500	4.34	29.30	35.17	58.21	56.68	74.00	-17.32	Peak
3	2484.041	4.34	29.30	35.16	59.59	58.07	74.00	-15.93	Peak



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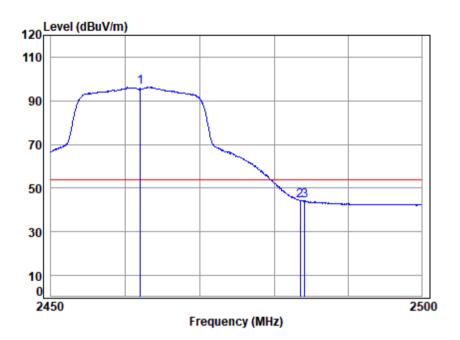


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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2462 Band edge : 2.4G WIFI 11G Note

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	4.34	29.30	35.17	45.70	44.17	54.00	-9.83	Average Average Average



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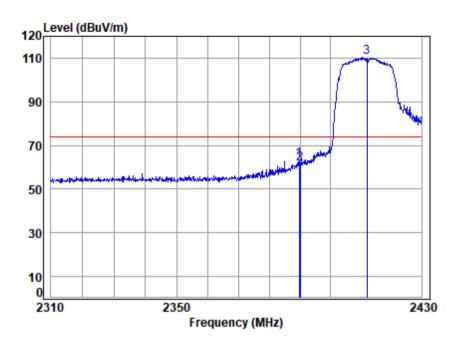


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2412 Band edge : 2.4G WIFI 11N20 Note

	Freq				Read Level				Remark
•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.726	4.25	28.76	35.21	65.55	63.35	74.00	-10.65	peak
2	2390.000	4.25	28.76	35.21	63.95	61.75	74.00	-12.25	peak
3.	2412.000	4.27	28.87	35.20	112.28	110.22	74.00	36.22	peak



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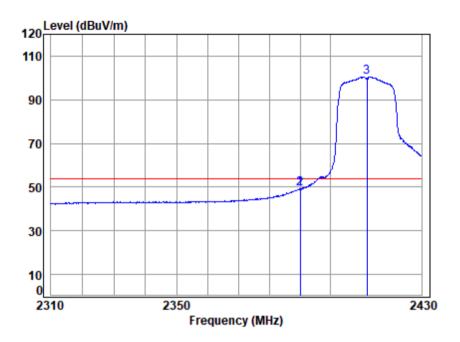


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2412 Band edge : 2.4G WIFI 11N20 Note

	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
						•			
2389.968	4.25	28.76	35.21	51.49	49.29	54.00	-4.71	Average	
								Average	
2412.000								_	



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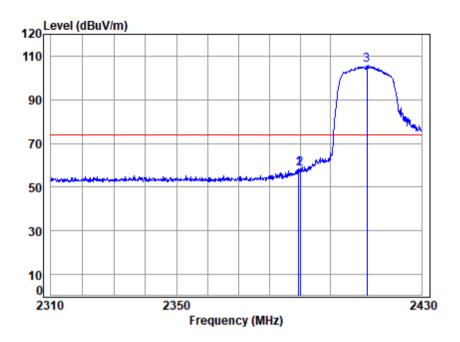


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2412 Band edge : 2.4G WIFI 11N20 Note

	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.605	4.25	28.76	35.21	60.62	58.42	74.00	-15.58	Peak
2	2390.000	4.25	28.76	35.21	60.60	58.40	74.00	-15.60	Peak
3.	2412.000	4.27	28.87	35.20	107.80	105.74	74.00	31.74	Peak



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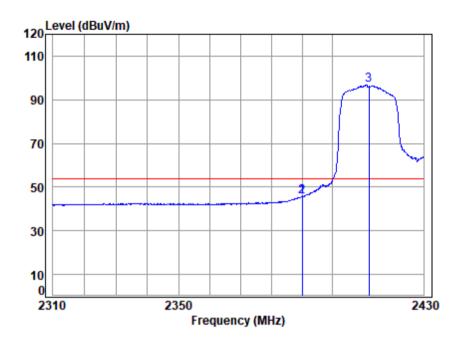


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2412 Band edge : 2.4G WIFI 11N20 Note

Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2389.968								_
2390.000	4.25	28.76	35.21	47.82	45.62	54.00	-8.38	Average
2412.000	4.27	28.87	35.20	98.71	96.65	54.00	42.65	Average



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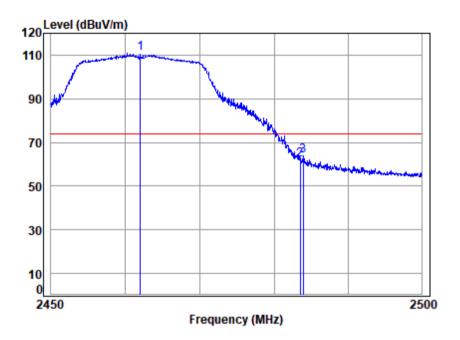


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2462 Band edge : 2.4G WIFI 11N20 Note

	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1.	2462.000	4.32	29.17	35.17	112.35	110.67	74.00	36.67	peak
2	2483.500	4.34	29.30	35.17	63.46	61.93	74.00	-12.07	peak
3	2483.940	4.34	29.30	35.16	65.39	63.87	74.00	-10.13	peak



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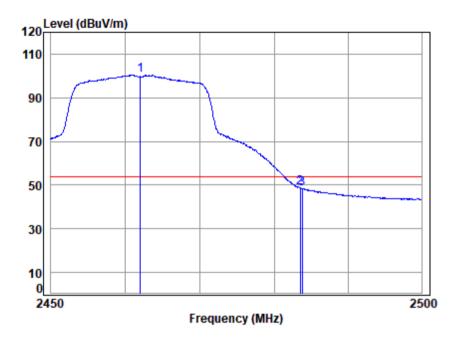


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2462 Band edge : 2.4G WIFI 11N20 Note

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Level Level Limit Remark Freq Line MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 1 . 2462.000 4.32 29.17 35.17 102.03 100.35 54.00 46.35 Average 2483.500 4.34 29.30 35.17 50.25 48.72 54.00 -5.28 Average 4.34 29.30 35.16 49.97 48.45 54.00 -5.55 Average 2483.790



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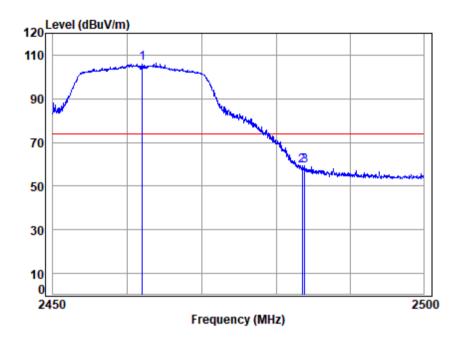


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2462 Band edge : 2.4G WIFI 11N20 Note

_	. 2.	TO WILL	1 11112							
		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		
	0.450 000		00.47	25.47	407.06	406.00	74.00	20.00		
•	2462.000	4.32	29.1/	35.1/	107.96	106.28	/4.00	32.28	Peak	
	2483.500	4.34	29.30	35.17	60.69	59.16	74.00	-14.84	Peak	
	2483.890	4.34	29.30	35.16	60.83	59.31	74.00	-14.69	Peak	



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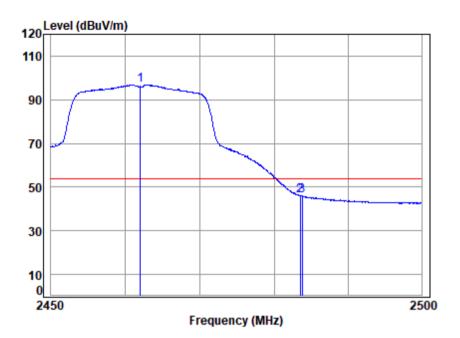


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2462 Band edge : 2.4G WIFI 11N20 Note

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1.	2462.000	4.32	29.17	35.17	98.50	96.82	54.00	42.82	Average
2	2483.500	4.34	29.30	35.17	47.56	46.03	54.00	-7.97	Average
3	2483.790	4.34	29.30	35.16	47.57	46.05	54.00	-7.95	Average



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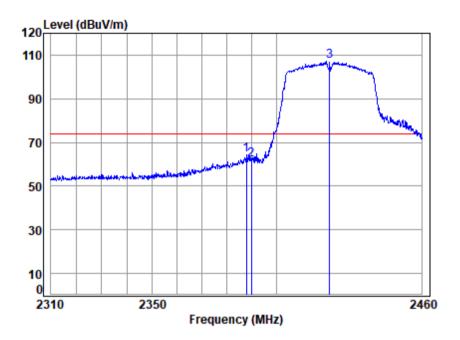


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2422 Band edge : 2.4G WIFI 11N40 Note

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1	2387.873	4.25	28.75	35.21	66.47	64.26	74.00	-9.74	peak	
2	2390.000	4.25	28.76	35.21	64.31	62.11	74.00	-11.89	peak	
3	. 2422.000	4.28	28.93	35.19	109.12	107.14	74.00	33.14	peak	



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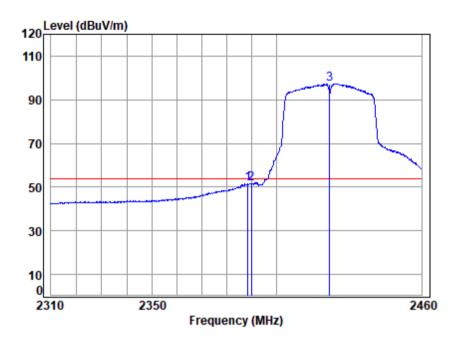


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2422 Band edge : 2.4G WIFI 11N40 Note

	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
									_
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
2388.625	4.25	28.75	35.21	53.96	51.75	54.00	-2.25	Average	
2390.000	4.25	28.76	35.21	53.80	51.60	54.00	-2.40	Average	
2422.000	4.28	28.93	35.19	99.38	97.40	54.00	43.40	Average	



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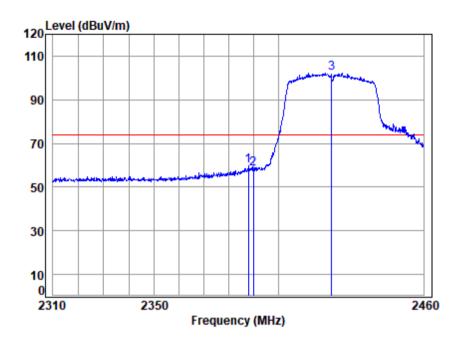


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2422 Band edge : 2.4G WIFI 11N40 Note

	Freq						Limit Line		Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	2387.873	4.25	28.75	35.21	61.91	59.70	74.00	-14.30	Peak	
2	2390.000	4.25	28.76	35.21	60.69	58.49	74.00	-15.51	Peak	
}	. 2422.000	4.28	28.93	35.19	104.28	102.30	74.00	28.30	Peak	



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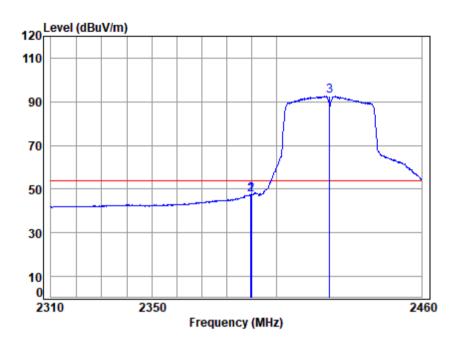


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2422 Band edge : 2.4G WIFI 11N40 Note

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.677	4.25	28.76	35.21	49.76	47.56	54.00	-6.44	Average
2	2390.000	4.25	28.76	35.21	49.65	47.45	54.00	-6.55	Average
3.	2422.000	4.28	28.93	35.19	94.41	92.43	54.00	38.43	Average



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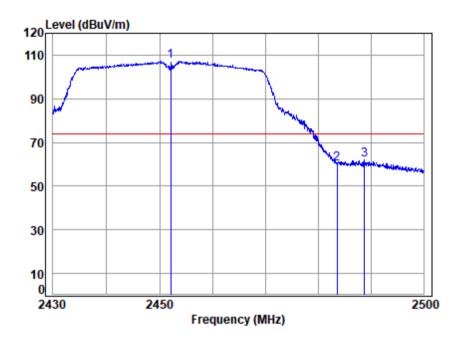


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2452 Band edge : 2.4G WIFI 11N40 Note

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2452.000	4.31	29.11	35.18	109.05	107.29	74.00	33.29	peak
2	2483.500	4.34	29.30	35.17	61.87	60.34	74.00	-13.66	peak
3	2488.737	4.35	29.33	35.16	63.37	61.89	74.00	-12.11	peak



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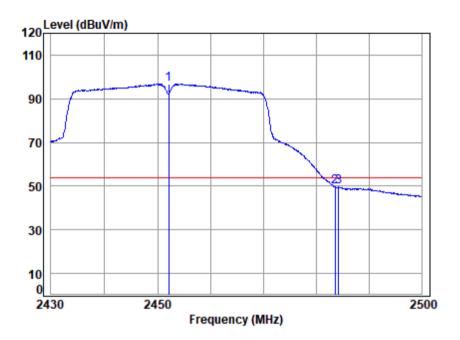


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2452 Band edge : 2.4G WIFI 11N40 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1.	2452.000	4.31	29.11	35.18	98.60	96.84	54.00	42.84	Average
2	2483.500	4.34	29.30	35.17	51.21	49.68	54.00	-4.32	Average
3	2484.147	4.34	29.31	35.16	51.32	49.81	54.00	-4.19	Average



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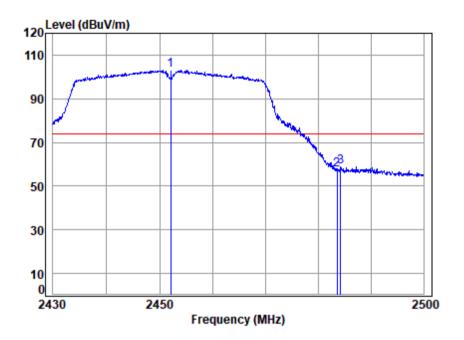


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2452 Band edge : 2.4G WIFI 11N40 Note

	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
2452.000	4.31	29.11	35.18	105.05	103.29	74.00	29.29	Peak	
2483.500	4.34	29.30	35.17	59.10	57.57	74.00	-16.43	Peak	
2484 147	4.34	29.31	35.16	60.39	58.88	74.00	-15.12	Peak	



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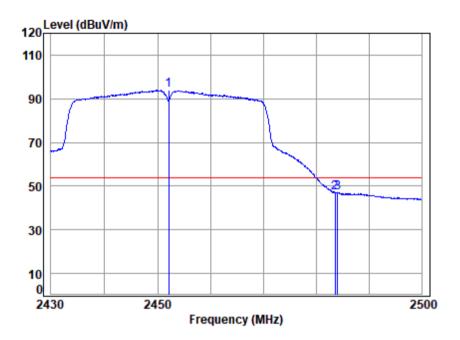


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2452 Band edge : 2.4G WIFI 11N40 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1.	2452.000 2483.500								_
_	2483.935								_



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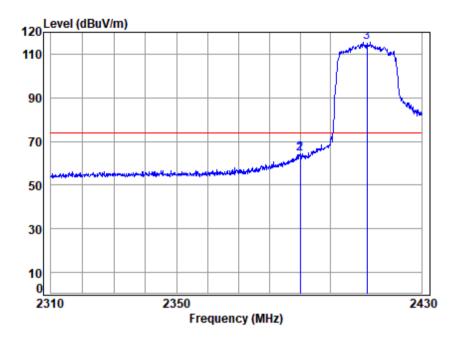


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2412 Band edge : 2.4G WIFI 11AX20 Note

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	4.25	28.76	35.21	66.62	64.42	74.00	-9.58	peak
2	2390.000	4.25	28.76	35.21	66.62	64.42	74.00	-9.58	peak
3	. 2412.000	4.27	28.87	35.20	117.63	115.57	74.00	41.57	peak



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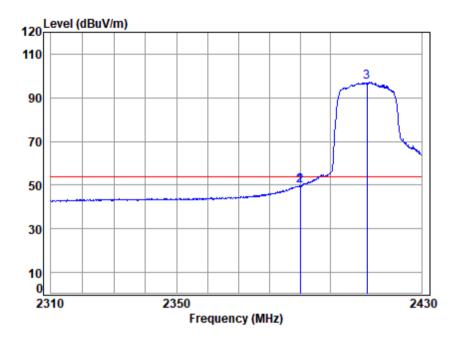


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2412 Band edge : 2.4G WIFI 11AX20 Note

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	4 25	28 76	35 21	52 15	/Q Q5	54 00	1 05	Avenage
1									_
2	2390.000	4.25	28.76	35.21	52.15	49.95	54.00	-4.05	Average
3.	2412.000	4.27	28.87	35.20	99.10	97.04	54.00	43.04	Average



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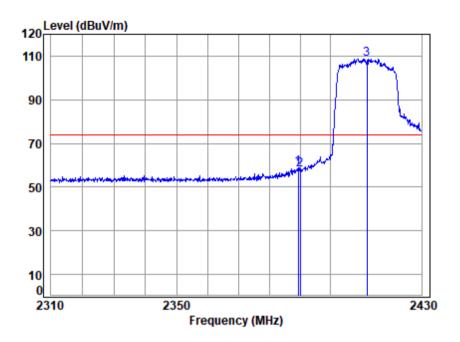


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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2412 Band edge : 2.4G WIFI 11AX20 Note

	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
									_
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
2389.363	4.25	28.76	35.21	61.00	58.80	74.00	-15.20	Peak	
2390.000	4.25	28.76	35.21	60.03	57.83	74.00	-16.17	Peak	
2412.000	4.27	28.87	35.20	110.81	108.75	74.00	34.75	Peak	



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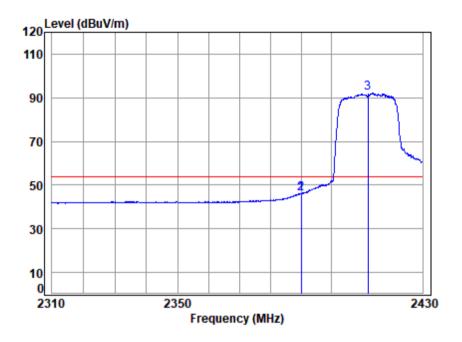


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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2412 Band edge : 2.4G WIFI 11AX20 Note

	Freq						Limit Line		Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
	2389.968	4.25	28.76	35.21	48.42	46.22	54.00	-7.78	Average	
	2390.000	4.25	28.76	35.21	48.42	46.22	54.00	-7.78	Average	
,	2412.000	4.27	28.87	35.20	94.34	92.28	54.00	38.28	Average	



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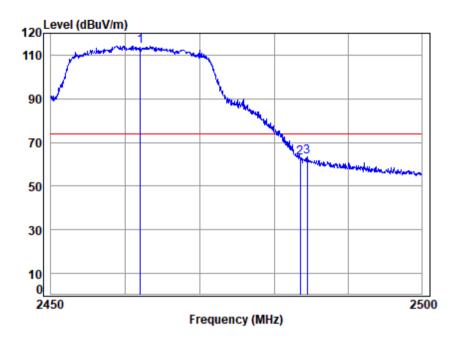


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2462 Band edge : 2.4G WIFI 11AX20 Note

		Freq				Read Level				Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2462.000	4.32	29.17	35.17	115.77	114.09	74.00	40.09	peak
2		2483.500	4.34	29.30	35.17	64.30	62.77	74.00	-11.23	peak
3		2484.442	4.34	29.31	35.16	64.75	63.24	74.00	-10.76	peak



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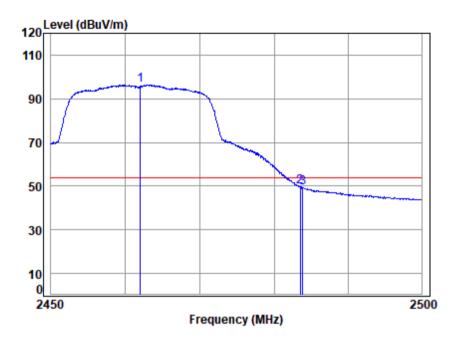


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2462 Band edge : 2.4G WIFI 11AX20 Note

	Fred						Limit Line		Remark	
									Kellidi K	_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	. 2462.000	4.32	29.17	35.17	98.06	96.38	54.00	42.38	Average	
2	2483.500	4.34	29.30	35.17	51.28	49.75	54.00	-4.25	Average	
,	2483.890	4.34	29.30	35.16	50.90	49.38	54.00	-4.62	Average	



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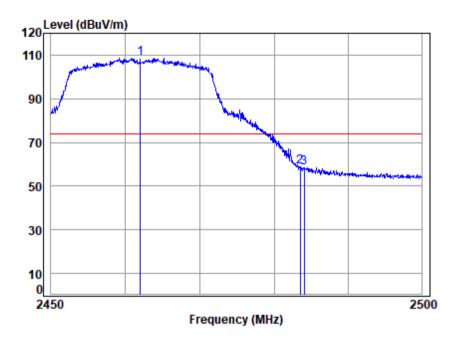


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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2462 Band edge : 2.4G WIFI 11AX20 Note

_										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2462.000	4.32	29.17	35.17	110.14	108.46	74.00	34.46	Peak	
	2483.500	4.34	29.30	35.17	60.58	59.05	74.00	-14.95	Peak	
	2484 . 091	4.34	29.31	35.16	60.05	58.54	74.00	-15.46	Peak	



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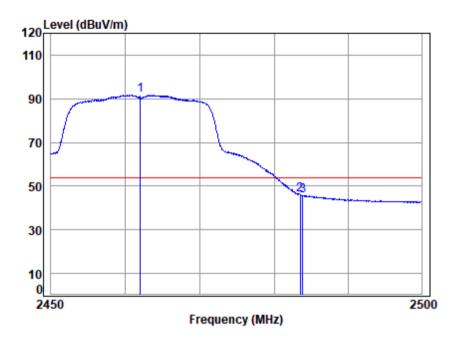


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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2462 Band edge : 2.4G WIFI 11AX20 Note

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2462.000	4.32	29.17	35.17	93.32	91.64	54.00	37.64	Average
2		2483.500	4.34	29.30	35.17	47.58	46.05	54.00	-7.95	Average
3		2483.840	4.34	29.30	35.16	47.17	45.65	54.00	-8.35	Average



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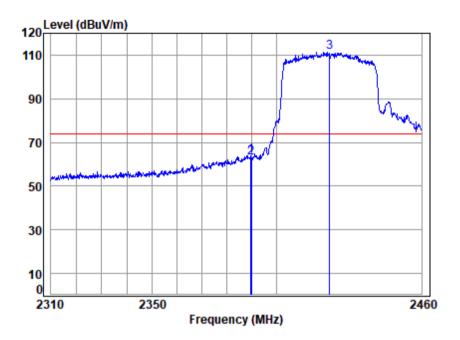


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2422 Band edge : 2.4G WIFI 11AX40 Note

	Freq						Limit Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.677	4.25	28.76	35.21	66.13	63.93	74.00	-10.07	peak
2	2390.000	4.25	28.76	35.21	65.03	62.83	74.00	-11.17	peak
3	. 2422.000	4.28	28.93	35.19	113.21	111.23	74.00	37.23	peak



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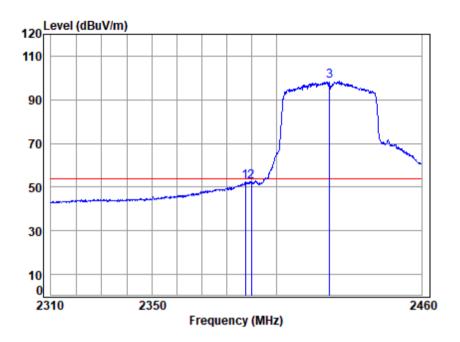


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2422 Band edge : 2.4G WIFI 11AX40 Note

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2387.573	4.25	28.75	35.21	54.56	52.35	54.00	-1.65	Average	
2	2390.000	4.25	28.76	35.21	54.66	52.46	54.00	-1.54	Average	
	2422.000	4.28	28.93	35.19	100.66	98.68	54.00	44.68	Average	



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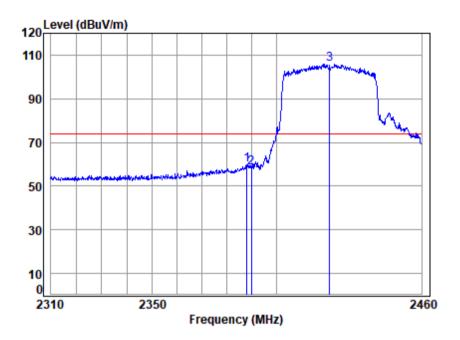


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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2422 Band edge : 2.4G WIFI 11AX40 Note

	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
									_
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
2388.174	4.25	28.75	35.21	61.91	59.70	74.00	-14.30	Peak	
2390.000	4.25	28.76	35.21	60.80	58.60	74.00	-15.40	Peak	
2422.000	4.28	28.93	35.19	107.94	105.96	74.00	31.96	Peak	



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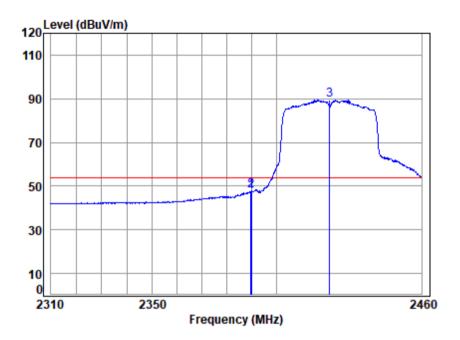


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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2422 Band edge : 2.4G WIFI 11AX40 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.677	4.25	28.76	35.21	49.81	47.61	54.00	-6.39	Average
2	2390.000	4.25	28.76	35.21	49.91	47.71	54.00	-6.29	Average
3.	2422.000	4.28	28.93	35.19	91.44	89.46	54.00	35.46	Average



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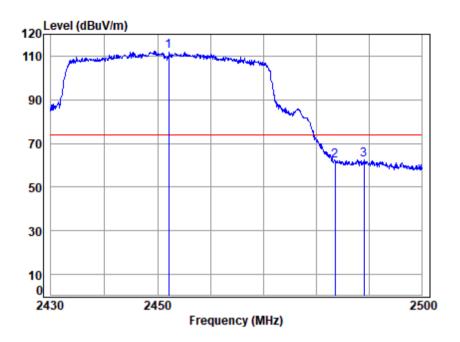


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2452 Band edge : 2.4G WIFI 11AX40 Note

		_				Read					
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1		2452.000	4.31	29.11	35.18	113.84	112.08	74.00	38.08	peak	
2		2483.500	4.34	29.30	35.17	63.60	62.07	74.00	-11.93	peak	
3		2488.949	4.35	29.33	35.16	64.08	62.60	74.00	-11.40	peak	



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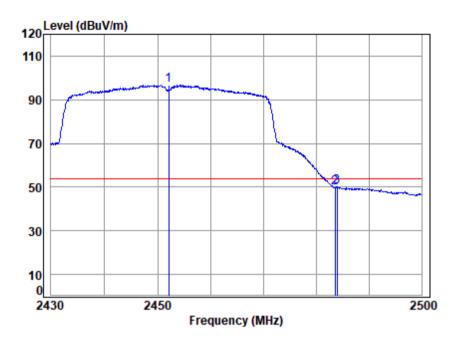


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2452 Band edge : 2.4G WIFI 11AX40 Note

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2452.000	4.31	29.11	35.18	98.57	96.81	54.00	42.81	Average
2		2483.500	4.34	29.30	35.17	51.41	49.88	54.00	-4.12	Average
3		2483.865	4.34	29.30	35.16	51.50	49.98	54.00	-4.02	Average



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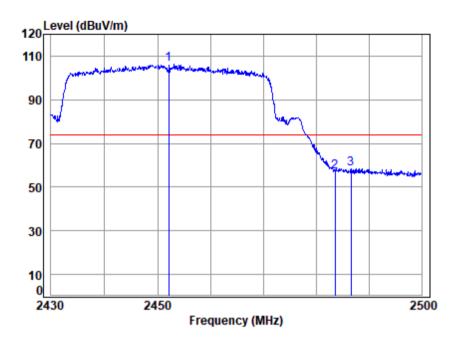


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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2452 Band edge : 2.4G WIFI 11AX40 Note

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1.	2452.000	4.31	29.11	35.18	108.03	106.27	74.00	32.27	Peak
2	2483.500	4.34	29.30	35.17	58.61	57.08	74.00	-16.92	Peak
3	2486.547	4.35	29.32	35.16	59.88	58.39	74.00	-15.61	Peak



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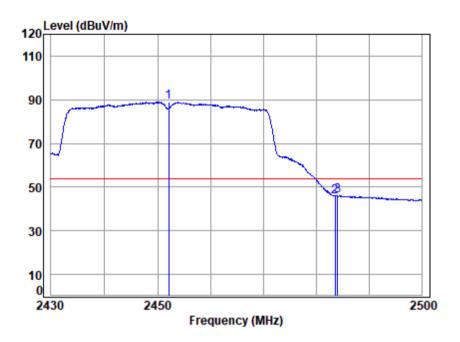


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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT Mode : 2452 Band edge : 2.4G WIFI 11AX40 Note

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1.	2452.000 2483.500								_
_	2484.006								_



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7.8 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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 47.8 % RH Atmospheric Pressure: 1015 mbar

7.8.2 Test Mode Description

	Total Total Mode Book Income						
Pre-scan / Final test	Mode Code	Description					
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.					



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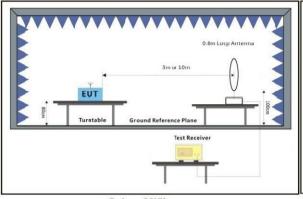


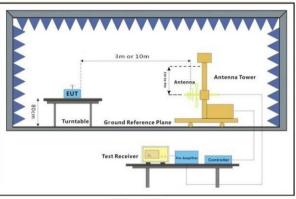
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7.8.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



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7.8.4 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) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

3) Scan from 9kHz to 1 GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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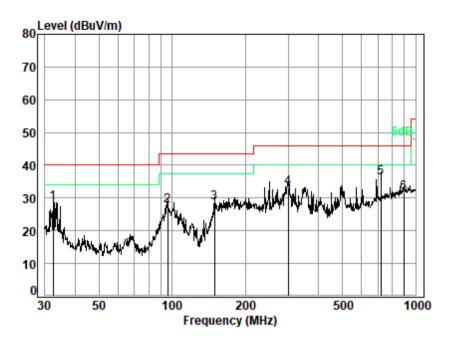


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 00489AT

Test Mode: 00

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	32.41	19.94	0.64	27.23	35.31	28.66	40.00	-11.34	QP
2	96.10	12.83	1.12	27.01	40.85	27.79	43.50	-15.71	QP
3	149.49	13.07	1.41	26.80	40.78	28.46	43.50	-15.04	QP
4	300.37	18.70	2.12	26.20	38.42	33.04	46.00	-12.96	QP
5 q	721.73	26.82	3.48	26.61	32.38	36.07	46.00	-9.93	QP
6	893.86	28.94	4.01	25.92	24.46	31.49	46.00	-14.51	QP



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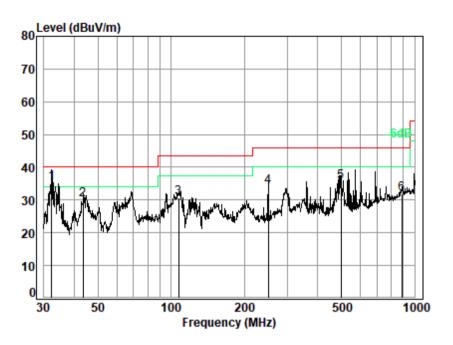


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No. : 00489AT

Test Mode: 00

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	32.29	20.02	0.64	27.23	41.95	35.38	40.00	-4.62	QP
2	43.51	14.07	0.71	27.19	42.43	30.02	40.00	-9.98	QP
3	107.51	12.76	1.18	26.97	43.71	30.68	43.50	-12.82	QP
4	250.30	17.86	1.91	26.40	40.66	34.03	46.00	-11.97	QP
5	497.68	23.02	2.80	26.79	36.51	35.54	46.00	-10.46	QP
6	887.61	28.86	3.98	25.95	25.12	32.01	46.00	-13.99	QP



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7.9 Radiated Spurious Emissions Above 1GHz

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

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

Limit:

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

7.9.1 E.U.T. Operation

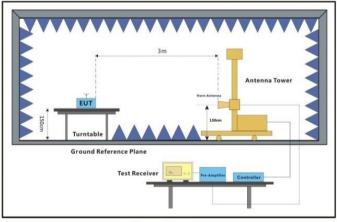
Operating Environment:

Temperature: 22.8 °C Humidity: 47.7 % RH Atmospheric Pressure: 1015 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



Above 1GHz



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7.9.4 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. For the tests were conducted in all transmitted mode(including ANT1, ANT2 and MIMO) and only the worst-case MIMO mode is recorded in the test report.
- 5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



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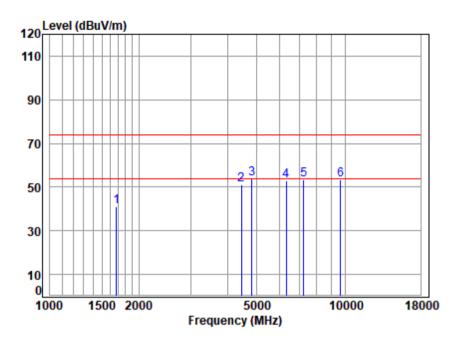


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2412 TX RSE

: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.477	3.47	26.77	36.08	47.01	41.17	74.00	-32.83	peak
2	4456.315	6.73	33.50	34.52	45.50	51.21	74.00	-22.79	peak
3	4824.000	7.06	33.90	34.42	47.24	53.78	74.00	-20.22	peak
4	6322.136	8.21	35.20	34.88	44.54	53.07	74.00	-20.93	peak
5	7236.000	8.54	35.80	35.44	44.35	53.25	74.00	-20.75	peak
6	9648.000	10.41	37.10	35.15	41.03	53.39	74.00	-20.61	peak



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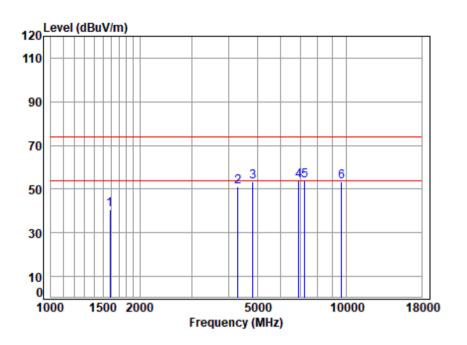


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT

Mode : 2412 TX RSE

: 2.4G WIFI 11B

	. 2.	TO WILL	1 110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1583.392	3.35	26.30	36.32	47.41	40.74	74.00	-33.26	peak
2	4304.400	6.59	33.60	34.57	45.39	51.01	74.00	-22.99	peak
3	4824.000	7.06	33.90	34.42	47.07	53.61	74.00	-20.39	peak
4	6894.806	8.30	35.60	35.31	45.14	53.73	74.00	-20.27	peak
5	7236.000	8.54	35.80	35.44	45.06	53.96	74.00	-20.04	peak
6	9648 000	10 41	37 10	35 15	41 12	53 48	74 99	-20 52	neak



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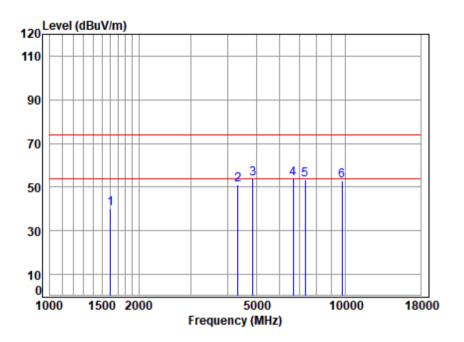


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2437 TX RSE

: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			-				-		
1	1606.441	3.38	26.53	36.26	46.45	40.10	74.00	-33.90	peak
2	4341.886	6.62	33.60	34.56	45.59	51.25	74.00	-22.75	peak
3	4874.000	7.10	34.05	34.41	47.12	53.86	74.00	-20.14	peak
4	6679.040	8.27	35.60	35.16	45.19	53.90	74.00	-20.10	peak
5	7311.000	8.61	35.90	35.46	44.37	53.42	74.00	-20.58	peak
6	9748.000	10.45	37.20	35.17	40.52	53.00	74.00	-21.00	peak



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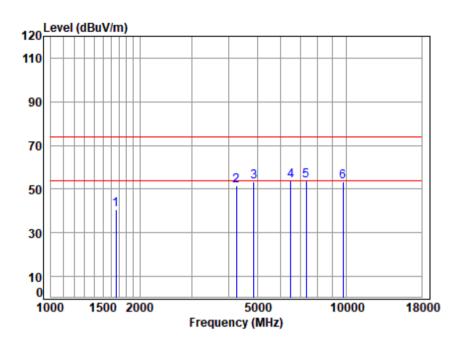


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT

Mode : 2437 TX RSE

· 2 4G WTFT 11B

	. 2	+Q MIL	1 110							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1658.337	3.44	26.72	36.14	46.68	40.70	74.00	-33.30	peak	
2	4242.641	6.53	33.57	34.59	46.26	51.77	74.00	-22.23	peak	
3	4874.000	7.10	34.05	34.41	46.76	53.50	74.00	-20.50	peak	
4	6488.754	8.24	35.48	35.01	45.21	53.92	74.00	-20.08	peak	
5	7311.000	8.61	35.90	35.46	44.81	53.86	74.00	-20.14	peak	
6	9748.000	10.45	37.20	35.17	41.12	53.60	74.00	-20.40	peak	



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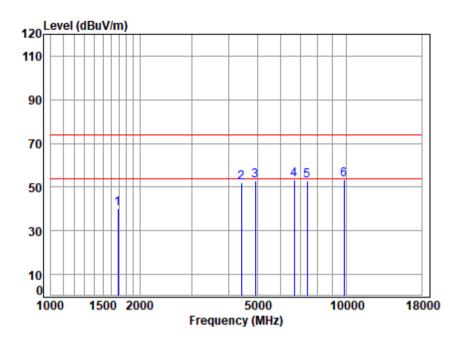


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2462 TX RSE

: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1687.347	3.47	26.77	36.07	45.87	40.04	74.00	-33.96	peak
2	4417.841	6.69	33.50	34.54	46.17	51.82	74.00	-22.18	peak
3	4924.000	7.15	34.15	34.40	46.12	53.02	74.00	-20.98	peak
4	6659.763	8.27	35.60	35.14	44.63	53.36	74.00	-20.64	peak
5	7386.000	8.68	35.90	35.48	43.94	53.04	74.00	-20.96	peak
6	9848.000	10.49	37.30	35.19	40.87	53.47	74.00	-20.53	peak



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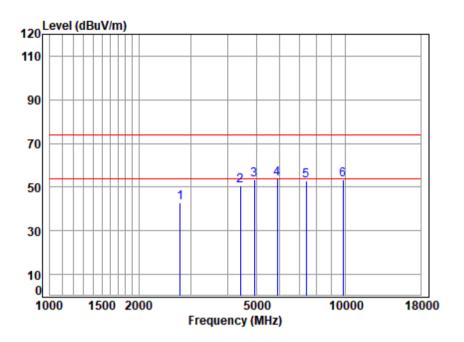


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT

Mode : 2462 TX RSE

: 2.4G WIFI 11B

	. 2.	TO WILL	1 110							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2766.024	4.61	29.50	35.05	43.88	42.94	74.00	-31.06	Peak	
2	4417.841	6.69	33.50	34.54	45.22	50.87	74.00	-23.13	peak	
3	4924.000	7.15	34.15	34.40	46.41	53.31	74.00	-20.69	peak	
4	5898.442	8.07	34.80	34.60	45.56	53.83	74.00	-20.17	peak	
5	7386.000	8.68	35.90	35.48	43.95	53.05	74.00	-20.95	peak	
6	9848 000	10 49	37 30	35 19	40 85	53 45	74 00	-20 55	neak	



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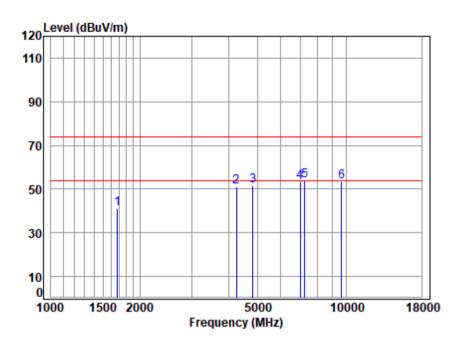


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Report No.: SZCR230200048902

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2412 TX RSE

: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.477	3.47	26.77	36.08	46.73	40.89	74.00	-33.11	peak
2	4254.921	6.54	33.60	34.58	45.63	51.19	74.00	-22.81	peak
3	4824.000	7.06	33.90	34.42	44.87	51.41	74.00	-22.59	peak
4	6974.982	8.32	35.75	35.37	44.52	53.22	74.00	-20.78	peak
5	7236.000	8.54	35.80	35.44	44.84	53.74	74.00	-20.26	peak
6	9648.000	10.41	37.10	35.15	41.04	53.40	74.00	-20.60	peak



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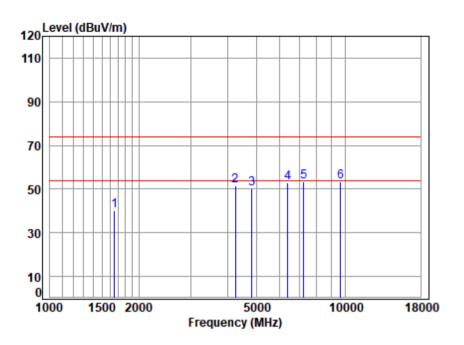


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Report No.: SZCR230200048902

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT

Mode : 2412 TX RSE

: 2.4G WIFI 11G

	Freq	Cable Loss		Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1653.550	3.43	26.71	36.15	46.16	40.15	74.00	-33.85	peak
2	4254.921	6.54	33.60	34.58	46.20	51.76	74.00	-22.24	peak
3	4824.000	7.06	33.90	34.42	43.73	50.27	74.00	-23.73	peak
4	6395.654	8.23	35.29	34.94	44.42	53.00	74.00	-21.00	peak
5	7236.000	8.54	35.80	35.44	44.60	53.50	74.00	-20.50	peak
6	9648.000	10.41	37.10	35.15	40.86	53.22	74.00	-20.78	peak



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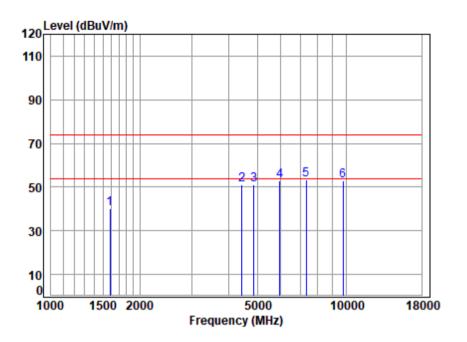


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2437 TX RSE

: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1583.392	3.35	26.30	36.32	46.82	40.15	74.00	-33.85	peak
2	4443.453	6.72	33.50	34.53	45.48	51.17	74.00	-22.83	peak
3	4874.000	7.10	34.05	34.41	44.29	51.03	74.00	-22.97	peak
4	5949.811	8.12	34.90	34.61	44.66	53.07	74.00	-20.93	peak
5	7311.000	8.61	35.90	35.46	44.39	53.44	74.00	-20.56	peak
6	9748.000	10.45	37.20	35.17	40.61	53.09	74.00	-20.91	peak



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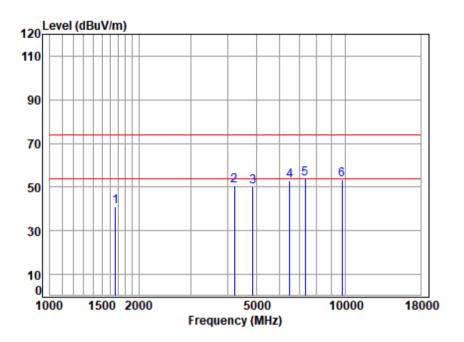


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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT

Mode : 2437 TX RSE

· 2 /G WTET 11G

	. 2.4	+G MIL	1 110							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1667.951	3.45	26.74	36.11	46.76	40.84	74.00	-33.16	peak	
2	4218.186	6.50	33.47	34.59	45.19	50.57	74.00	-23.43	peak	
3	4874.000	7.10	34.05	34.41	43.31	50.05	74.00	-23.95	peak	
4	6488.754	8.24	35.48	35.01	44.38	53.09	74.00	-20.91	peak	
5	7311.000	8.61	35.90	35.46	44.66	53.71	74.00	-20.29	peak	
6	9748.000	10.45	37.20	35.17	40.73	53.21	74.00	-20.79	peak	



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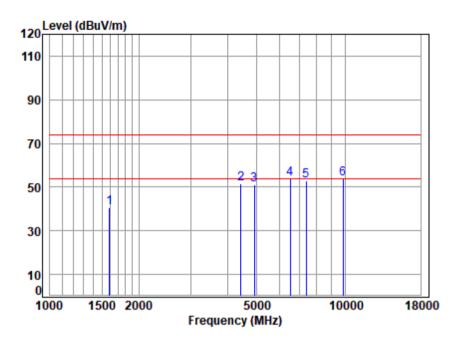


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT Mode : 2462 TX RSE

: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.571	3.36	26.41	36.29	47.01	40.49	74.00	-33.51	peak
2	4443.453	6.72	33.50	34.53	45.85	51.54	74.00	-22.46	peak
3	4924.000	7.15	34.15	34.40	44.42	51.32	74.00	-22.68	peak
4	6526.373	8.25	35.55	35.04	45.11	53.87	74.00	-20.13	peak
5	7386.000	8.68	35.90	35.48	44.01	53.11	74.00	-20.89	peak
6	9848.000	10.49	37.30	35.19	41.29	53.89	74.00	-20.11	peak



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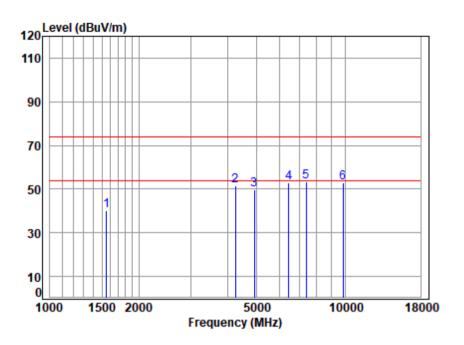


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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT

Mode : 2462 TX RSE

: 2.4G WIFI 11G

1 2140 MIT 110										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1556.169	3.31	25.98	36.38	47.31	40.22	74.00	-33.78	peak	
2	4254.921	6.54	33.60	34.58	45.89	51.45	74.00	-22.55	peak	
3	4924.000	7.15	34.15	34.40	43.03	49.93	74.00	-24.07	peak	
4	6451.353	8.24	35.40	34.98	44.49	53.15	74.00	-20.85	peak	
5	7386.000	8.68	35.90	35.48	44.20	53.30	74.00	-20.70	peak	
6	98/18 000	10 /9	37 30	35 19	10 19	53 09	7/ 00	-20 91	neak	



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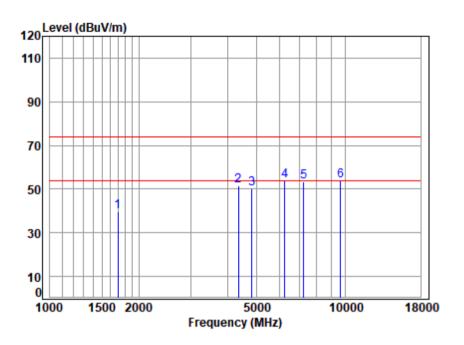


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT

Mode : 2412 TX RSE

: 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.129	3.49	26.79	36.04	45.44	39.68	74.00	-34.32	peak
2	4354.454	6.63	33.59	34.55	45.69	51.36	74.00	-22.64	peak
3	4824.000	7.06	33.90	34.42	43.61	50.15	74.00	-23.85	peak
4	6249.464	8.20	35.20	34.82	45.18	53.76	74.00	-20.24	peak
5	7236.000	8.54	35.80	35.44	44.65	53.55	74.00	-20.45	peak
6	9648.000	10.41	37.10	35.15	41.31	53.67	74.00	-20.33	peak



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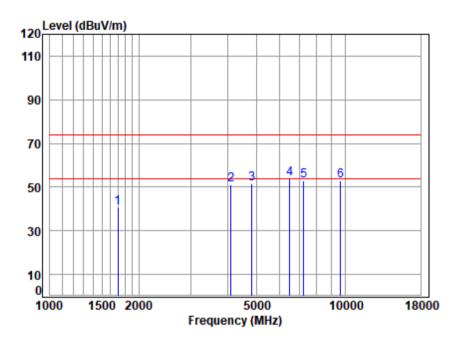


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT

Mode : 2412 TX RSE

: 2.4G WIFI 11N20

	Freq	Cable Loss		Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.129	3.49	26.79	36.04	46.16	40.40	74.00	-33.60	peak
2	4098.010	6.38	33.00	34.63	46.56	51.31	74.00	-22.69	peak
3	4824.000	7.06	33.90	34.42	45.21	51.75	74.00	-22.25	peak
4	6488.754	8.24	35.48	35.01	45.14	53.85	74.00	-20.15	peak
5	7236.000	8.54	35.80	35.44	44.09	52.99	74.00	-21.01	peak
6	9648.000	10.41	37.10	35.15	40.67	53.03	74.00	-20.97	peak



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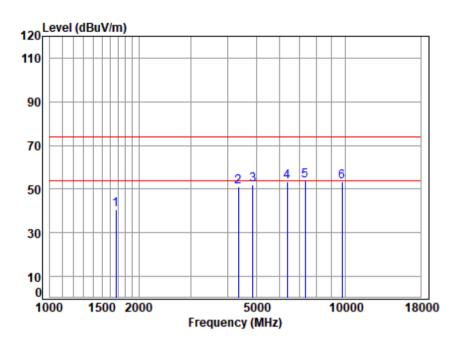


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT

Mode : 2437 TX RSE

: 2.4G WIFI 11N20

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	3.46	26.75	36.10	46.28	40.39	74.00	-33.61	peak
2	4354.454	6.63	33.59	34.55	45.47	51.14	74.00	-22.86	peak
3	4874.000	7.10	34.05	34.41	45.18	51.92	74.00	-22.08	peak
4	6377.195	8.22	35.25	34.92	44.70	53.25	74.00	-20.75	peak
5	7311.000	8.61	35.90	35.46	44.57	53.62	74.00	-20.38	peak
6	9748.000	10.45	37.20	35.17	40.79	53.27	74.00	-20.73	peak



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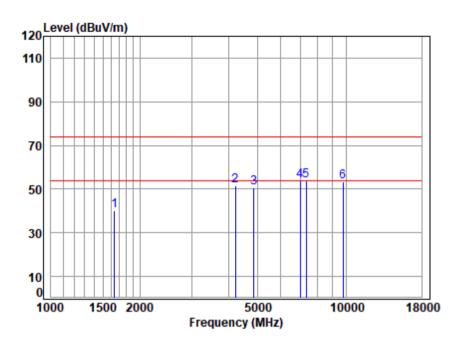


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT

Mode : 2437 TX RSE

: 2.4G WIFI 11N20

				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			•			•	•		
1	1639.274	3.42	26.66	36.18	46.33	40.23	74.00	-33.77	peak
2	4218.186	6.50	33.47	34.59	46.01	51.39	74.00	-22.61	peak
3	4874.000	7.10	34.05	34.41	43.83	50.57	74.00	-23.43	peak
4	6974.982								•
5									•
6	97/18 000								•



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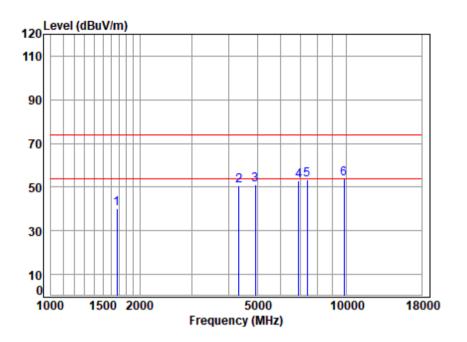


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT

Mode : 2462 TX RSE

: 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	3.46	26.75	36.10	45.99	40.10	74.00	-33.90	peak
2	4329.354	6.61	33.60	34.56	44.77	50.42	74.00	-23.58	peak
3	4924.000	7.15	34.15	34.40	44.23	51.13	74.00	-22.87	peak
4	6914.763	8.31	35.63	35.33	44.42	53.03	74.00	-20.97	peak
5	7386.000	8.68	35.90	35.48	44.26	53.36	74.00	-20.64	peak
6	9848.000	10.49	37.30	35.19	41.08	53.68	74.00	-20.32	peak



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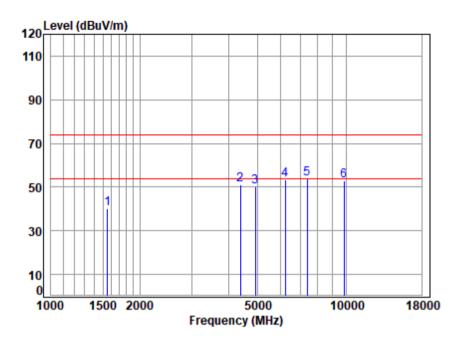


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT

Mode : 2462 TX RSE

: 2.4G WIFI 11N20

				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
							•		
1	1556.169	3.31	25.98	36.38	47.40	40.31	74.00	-33.69	peak
2	4392.376	6.67	33.52	34.54	45.51	51.16	74.00	-22.84	peak
3	4924.000	7.15	34.15	34.40	43.14	50.04	74.00	-23.96	peak
4	6213.441	8.20	35.20	34.79	44.88	53.49	74.00	-20.51	peak
5	7386.000								•
6	9848 000								•



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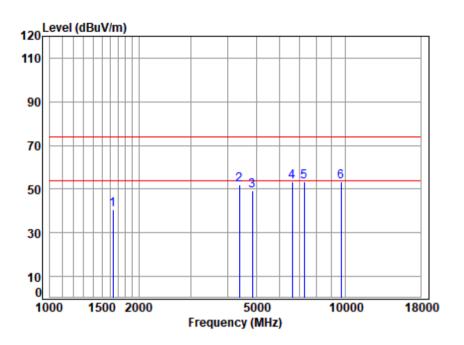


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL
Job No : 00489AT\00490AT
Mode : 2422 TX RSE

: 2.4G WIFI 11N40

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dB dBuV dBuV/m dBuV/m 1634.543 3.41 26.64 36.19 46.91 40.77 74.00 -33.23 peak 4392.376 6.67 33.52 34.54 46.55 52.20 74.00 -21.80 peak 7.08 33.98 34.42 42.82 49.46 74.00 -24.54 peak 4844.000 6621.375 8.26 35.60 35.11 44.47 53.22 74.00 -20.78 peak 8.57 35.83 35.45 44.31 53.26 74.00 -20.74 peak 7266.000 9688.000 10.42 37.10 35.15 40.94 53.31 74.00 -20.69 peak



1

2

5

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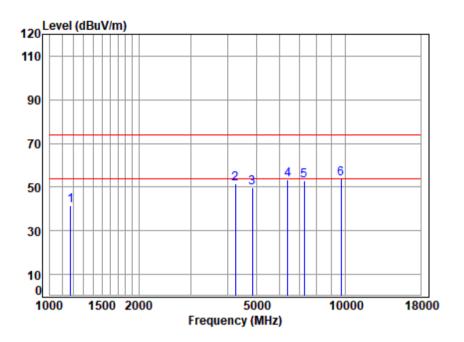


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT

Mode : 2422 TX RSE

: 2.4G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1175.697	2.76	24.30	37.48	52.07	41.65	74.00	-32.35	peak
2	4242.641	6.53	33.57	34.59	45.86	51.37	74.00	-22.63	peak
3	4844.000	7.08	33.98	34.42	42.90	49.54	74.00	-24.46	peak
4	6395.654	8.23	35.29	34.94	44.62	53.20	74.00	-20.80	peak
5	7266.000	8.57	35.83	35.45	43.84	52.79	74.00	-21.21	peak
6	9688.000	10.42	37.10	35.15	41.52	53.89	74.00	-20.11	peak



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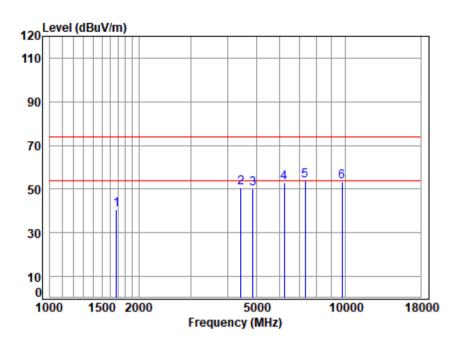


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT

Mode : 2437 TX RSE

: 2.4G WIFI 11N40

		Cable		Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	3.46	26.76	36.09	46.53	40.66	74.00	-33.34	peak
2	4443.453	6.72	33.50	34.53	45.16	50.85	74.00	-23.15	peak
3	4874.000	7.10	34.05	34.41	43.62	50.36	74.00	-23.64	peak
4	6231.427	8.20	35.20	34.81	44.16	52.75	74.00	-21.25	peak
5	7311.000	8.61	35.90	35.46	44.77	53.82	74.00	-20.18	peak
6	9748.000	10.45	37.20	35.17	40.80	53.28	74.00	-20.72	peak



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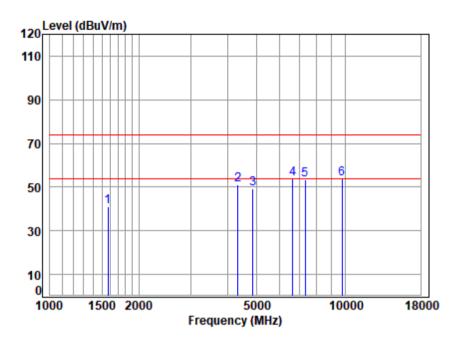


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT

Mode : 2437 TX RSE

: 2.4G WIFI 11N40

	. 2.	TO WILL	T TT114-						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1574.265	3.34	26.19	36.34	47.72	40.91	74.00	-33.09	peak
2	4329.354	6.61	33.60	34.56	45.66	51.31	74.00	-22.69	peak
3	4874.000	7.10	34.05	34.41	42.76	49.50	74.00	-24.50	peak
4	6640.542	8.27	35.60	35.13	45.14	53.88	74.00	-20.12	peak
5	7311.000	8.61	35.90	35.46	44.25	53.30	74.00	-20.70	peak
	9748 000	10 45	37 20	35 17	41 22	53 70	74 00	-20 30	neak



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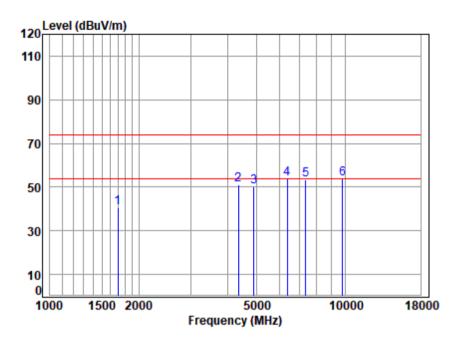


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT

Mode : 2452 TX RSE

: 2.4G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1697.129	3.49	26.79	36.04	46.41	40.65	74.00	-33.35	peak
2	4354.454	6.63	33.59	34.55	45.41	51.08	74.00	-22.92	peak
3	4904.000	7.13	34.11	34.40	43.22	50.06	74.00	-23.94	peak
4	6377.195	8.22	35.25	34.92	45.17	53.72	74.00	-20.28	peak
5	7356.000	8.65	35.90	35.47	44.46	53.54	74.00	-20.46	peak
6	9808.000	10.47	37.22	35.18	41.19	53.70	74.00	-20.30	peak



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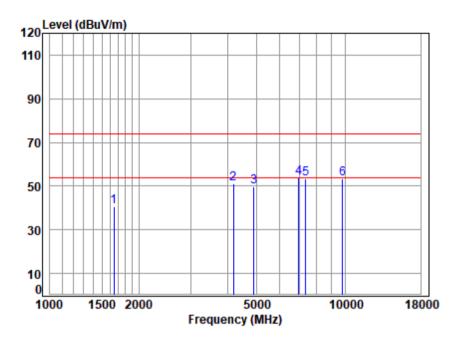


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT

Mode : 2452 TX RSE

: 2.4G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1648.778	3.43	26.70	36.16	46.73	40.70	74.00	-33.30	peak
2	4181.768	6.47	33.29	34.60	45.86	51.02	74.00	-22.98	peak
3	4904.000	7.13	34.11	34.40	42.73	49.57	74.00	-24.43	peak
4	6954.852	8.31	35.71	35.36	45.13	53.79	74.00	-20.21	peak
5	7356.000	8.65	35.90	35.47	44.52	53.60	74.00	-20.40	peak
6	9808.000	10.47	37.22	35.18	41.00	53.51	74.00	-20.49	peak



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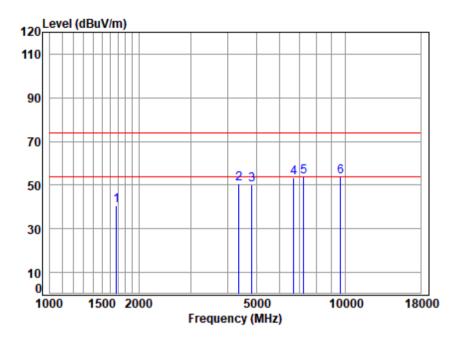


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT

Mode : 2412 TX RSE

: 2.4G WIFI 11AX20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.477	3.47	26.77	36.08	46.39	40.55	74.00	-33.45	peak
2	4367.058	6.65	33.57	34.55	44.91	50.58	74.00	-23.42	peak
3	4824.000	7.06	33.90	34.42	43.52	50.06	74.00	-23.94	peak
4	6698.373	8.27	35.60	35.17	44.54	53.24	74.00	-20.76	peak
5	7236.000	8.54	35.80	35.44	44.92	53.82	74.00	-20.18	peak
6	9648.000	10.41	37.10	35.15	41.57	53.93	74.00	-20.07	peak



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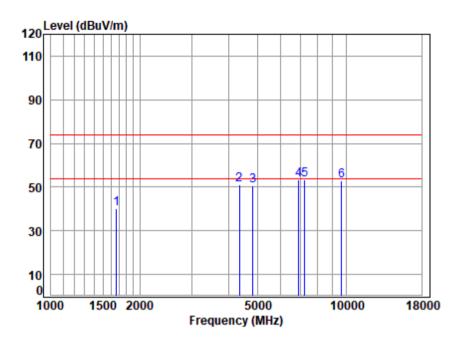


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Report No.: SZCR230200048902

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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT

Mode : 2412 TX RSE

: 2.4G WIFI 11AX20

	. 2.	TO WILL	T TT///	20					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1667.951	3.45	26.74	36.11	45.96	40.04	74.00	-33.96	peak
2	4354.454	6.63	33.59	34.55	45.26	50.93	74.00	-23.07	peak
3	4824.000	7.06	33.90	34.42	43.99	50.53	74.00	-23.47	peak
4	6894.806	8.30	35.60	35.31	44.64	53.23	74.00	-20.77	peak
5	7236.000	8.54	35.80	35.44	44.68	53.58	74.00	-20.42	peak
6	9648 000	10 41	37 10	35 15	40 69	53 05	74 00	-20 95	neak



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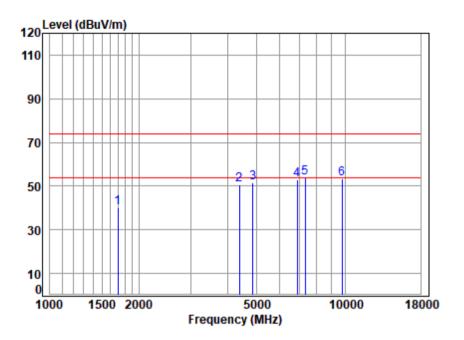


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT

Mode : 2437 TX RSE

: 2.4G WIFI 11AX20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						JD: 377-	JD: 3//		
	MHz	dB	ab/m	dB	abuv	abuv/m	abuv/m	dB	
1	1697.129	3.49	26.79	36.04	46.09	40.33	74.00	-33.67	peak
2	4392.376	6.67	33.52	34.54	44.86	50.51	74.00	-23.49	peak
3	4874.000	7.10	34.05	34.41	44.67	51.41	74.00	-22.59	peak
4	6874.906	8.30	35.60	35.30	44.47	53.07	74.00	-20.93	peak
5	7311.000	8.61	35.90	35.46	44.90	53.95	74.00	-20.05	peak
6	9748.000	10.45	37.20	35.17	40.93	53.41	74.00	-20.59	peak



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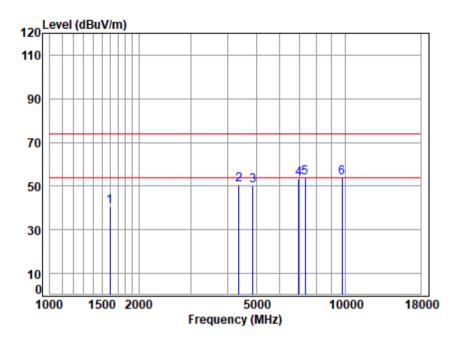


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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT

Mode : 2437 TX RSE

: 2.4G WIFI 11AX20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1597.181	3.37	26.47	36.28	47.23	40.79	74.00	-33.21	peak
2	4367.058	6.65	33.57	34.55	44.76	50.43	74.00	-23.57	peak
3	4874.000	7.10	34.05	34.41	43.38	50.12	74.00	-23.88	peak
4	6954.852	8.31	35.71	35.36	44.86	53.52	74.00	-20.48	peak
5	7311.000	8.61	35.90	35.46	44.83	53.88	74.00	-20.12	peak
6	9748.000	10.45	37.20	35.17	41.28	53.76	74.00	-20.24	peak



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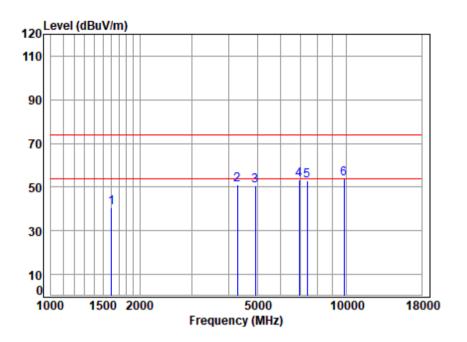


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT

Mode : 2462 TX RSE

: 2.4G WIFI 11AX20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	d Bu V/m	dBuV/m	dB	
1	1601.804	3.37	26.51	36.27	46.89	40.50	74.00	-33.50	peak
2	4279.589	6.56	33.60	34.58	45.42	51.00	74.00	-23.00	peak
3	4924.000	7.15	34.15	34.40	43.83	50.73	74.00	-23.27	peak
4	6934.778	8.31	35.67	35.34	44.84	53.48	74.00	-20.52	peak
5	7386.000	8.68	35.90	35.48	43.94	53.04	74.00	-20.96	peak
6	9848.000	10.49	37.30	35.19	41.10	53.70	74.00	-20.30	peak



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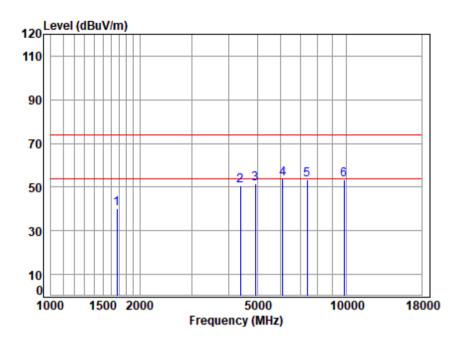


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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT

Mode : 2462 TX RSE

: 2.4G WIFI 11AX20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	3.46	26.75	36.10	45.85	39.96	74.00	-34.04	peak
2	4379.699	6.66	33.54	34.55	45.14	50.79	74.00	-23.21	peak
3	4924.000	7.15	34.15	34.40	44.66	51.56	74.00	-22.44	peak
4	6088.991	8.18	35.08	34.69	45.35	53.92	74.00	-20.08	peak
5	7386.000	8.68	35.90	35.48	44.47	53.57	74.00	-20.43	peak
6	98/18 000								•



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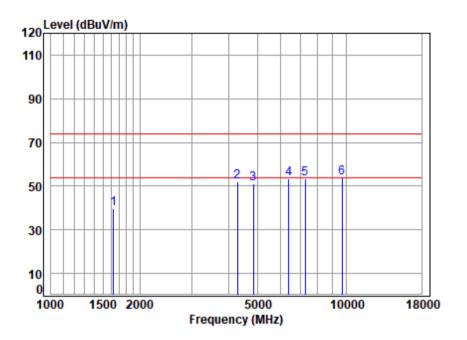


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT

Mode : 2422 TX RSE

: 2.4G WIFI 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	1629.825	3.41	26.62	36.20	45.94	39.77	74.00	-34.23	peak
2	4291.977	6.57	33.60	34.57	46.34	51.94	74.00	-22.06	peak
3	4844.000	7.08	33.98	34.42	44.64	51.28	74.00	-22.72	peak
4	6395.654	8.23	35.29	34.94	44.81	53.39	74.00	-20.61	peak
5	7266.000	8.57	35.83	35.45	44.50	53.45	74.00	-20.55	peak
6	9688.000	10.42	37.10	35.15	41.29	53.66	74.00	-20.34	peak



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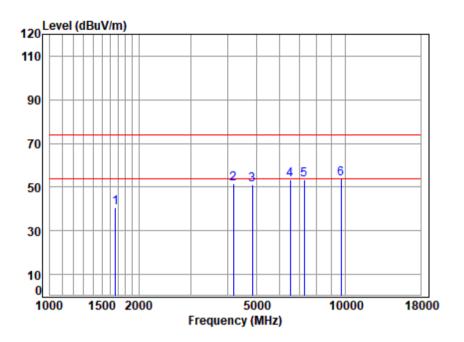


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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT

Mode : 2422 TX RSE

: 2.4G WIFI 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	1667.951	3.45	26.74	36.11	46.48	40.56	74.00	-33.44	peak
2	4181.768	6.47	33.29	34.60	46.50	51.66	74.00	-22.34	peak
3	4844.000	7.08	33.98	34.42	44.41	51.05	74.00	-22.95	peak
4	6507.536	8.24	35.52	35.03	44.54	53.27	74.00	-20.73	peak
5	7266.000	8.57	35.83	35.45	44.24	53.19	74.00	-20.81	peak
6	9688 000	10 /12	37 10	35 15	41 62	53 99	7/ 00	-20 01	neak



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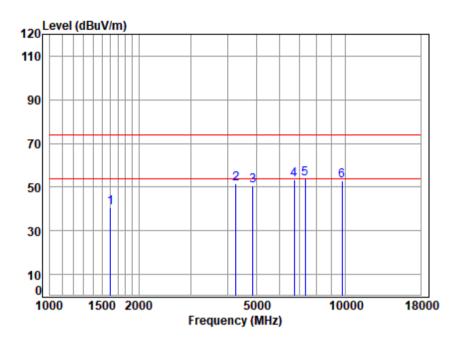


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT

Mode : 2437 TX RSE

: 2.4G WIFI 11AX40

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	d B	dBuV	dBuV/m	dBuV/m	——dB	
1	1606.441	3.38	26.53	36.26	46.96	40.61	74.00	-33.39	peak
2	4267.237	6.55	33.60	34.58	45.90	51.47	74.00	-22.53	peak
3	4874.000	7.10	34.05	34.41	44.06	50.80	74.00	-23.20	peak
4	6717.762	8.28	35.56	35.18	44.62	53.28	74.00	-20.72	peak
5	7311.000	8.61	35.90	35.46	44.61	53.66	74.00	-20.34	peak
6	9748.000	10.45	37.20	35.17	40.55	53.03	74.00	-20.97	peak



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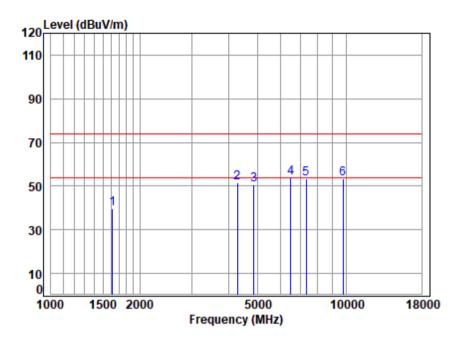


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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT

Mode : 2437 TX RSE

: 2.4G WIFI 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	1615.754	3.39	26.56	36.24	46.09	39.80	74.00	-34.20	peak	
2	4291.977	6.57	33.60	34.57	45.73	51.33	74.00	-22.67	peak	
3	4874.000	7.10	34.05	34.41	43.76	50.50	74.00	-23.50	peak	
4	6488.754	8.24	35.48	35.01	45.05	53.76	74.00	-20.24	peak	
5	7311.000	8.61	35.90	35.46	44.12	53.17	74.00	-20.83	peak	
6	97/18 000	10 /5	37 20	35 17	40 75	53 23	7/ 00	-20 77	nesk	



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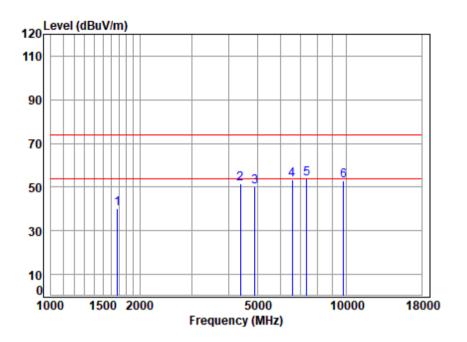


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 00489AT\00490AT

Mode : 2452 TX RSE

: 2.4G WIFI 11AX40

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB		——dB		dBul//m	dBul//m	dB	
	PILIZ	ub	ub/III	ub	ubuv	ubuv/III	ubuv/III	ub	
1	1682.477	3.47	26.77	36.08	46.12	40.28	74.00	-33.72	peak
2	4392.376	6.67	33.52	34.54	45.86	51.51	74.00	-22.49	peak
3	4904.000	7.13	34.11	34.40	43.42	50.26	74.00	-23.74	peak
4	6564.209	8.25	35.60	35.07	44.38	53.16	74.00	-20.84	peak
5	7356.000	8.65	35.90	35.47	44.73	53.81	74.00	-20.19	peak
6	9808.000	10.47	37.22	35.18	40.51	53.02	74.00	-20.98	peak



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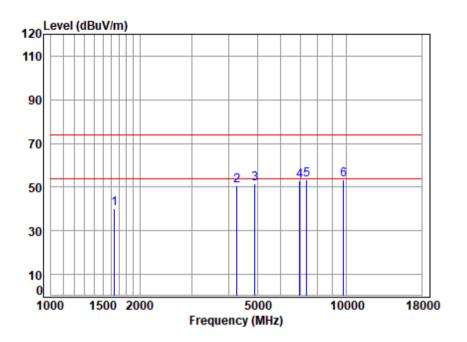


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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00489AT\00490AT

Mode : 2452 TX RSE

: 2.4G WIFI 11AX40

	. 2.	TO WILL	T TT///						
		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	1644.019	3.42	26.68	36.17	46.07	40.00	74.00	-34.00	peak
2	4267.237	6.55	33.60	34.58	45.27	50.84	74.00	-23.16	peak
3	4904.000	7.13	34.11	34.40	44.54	51.38	74.00	-22.62	peak
4	6954.852	8.31	35.71	35.36	44.34	53.00	74.00	-21.00	peak
5	7356.000	8.65	35.90	35.47	44.52	53.60	74.00	-20.40	peak
6	9808 000	10 47	37 22	35 18	40 91	53 42	74 00	-20 58	neak



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8 **Test Setup Photo**

Refer to Appendix - Test Setup Photo for SZCR2302000489AT

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2302000489AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

	Ant1											
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)			
		2412	/	/	1.396	1.454	96.01	0.18	0.07			
802.11b	MIMO	2437	/	/	8.417	8.473	99.34	0.03	0.04			
		2462	/	/	8.414	8.470	99.34	0.03	0.00			
		2412	/	/	1.395	1.452	96.07	0.17	0.04			
802.11g	MIMO	2437	/	/	1.395	1.452	96.07	0.17	0.03			
		2462	/	/	1.396	1.453	96.08	0.17	0.07			
000 44		2412	/	/	1.308	1.365	95.82	0.19	0.03			
802.11n (HT20)	MIMO	2437	/	/	1.308	1.365	95.82	0.19	0.07			
(11120)		2462	/	/	1.308	1.365	95.82	0.19	0.07			
000.44		2422	/	/	0.648	0.705	91.91	0.37	0.06			
802.11n (HT40)	MIMO	2437	/	/	0.648	0.705	91.91	0.37	0.07			
(11140)		2452	/	/	0.648	0.705	91.91	0.37	0.03			
000 44		2412	RU242	Left	0.311	0.368	84.51	0.73	0.07			
802.11ax (HEW20)	MIMO	2437	RU242	Left	0.313	0.369	84.82	0.71	0.06			
(112 7720)		2462	RU242	Left	0.312	0.369	84.55	0.73	0.04			
000 44		2422	RU484	Left	0.312	0.369	84.55	0.73	0.07			
802.11ax (HEW40)	MIMO	2437	RU484	Left	0.312	0.369	84.55	0.73	0.04			
(1127740)		2452	RU484	Left	0.312	0.369	84.55	0.73	0.04			

Note: All the ANTS were conducted the tests. only the worst-case ATN1 is recorded in the test report.



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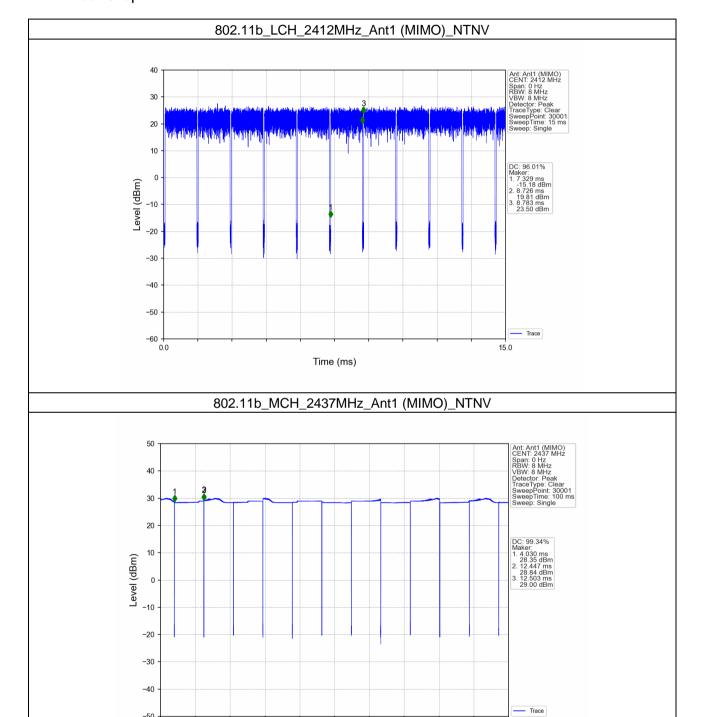


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1.1.2 Test Graph





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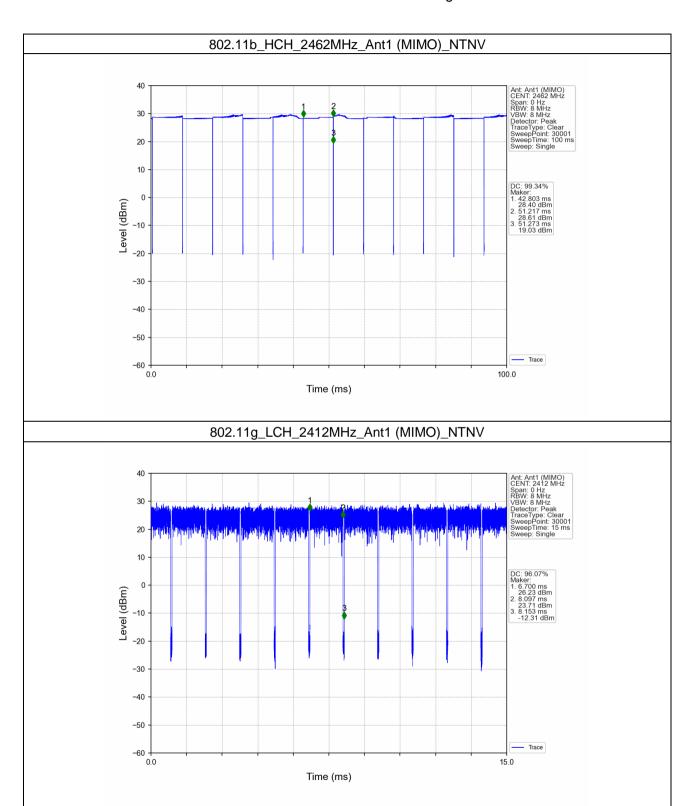
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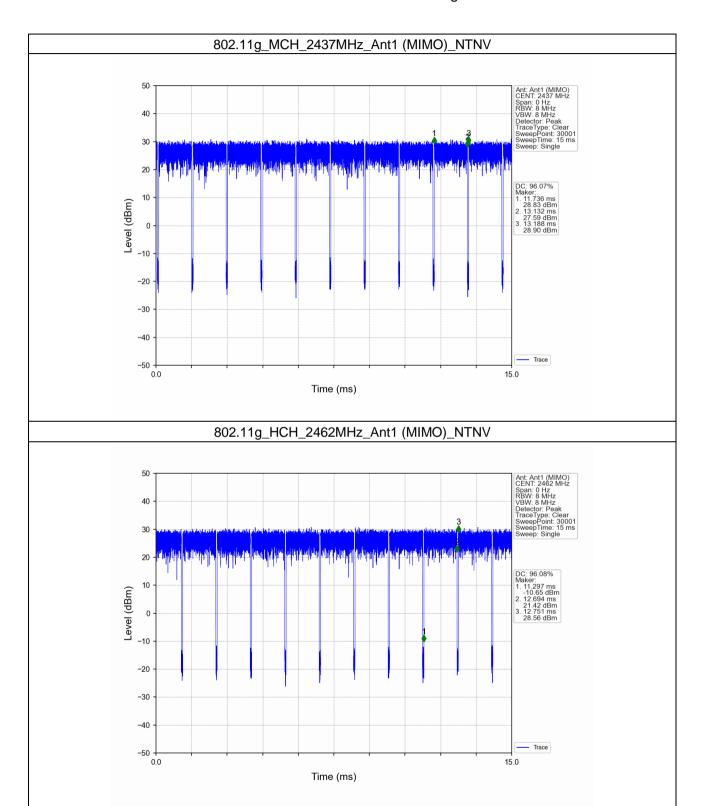
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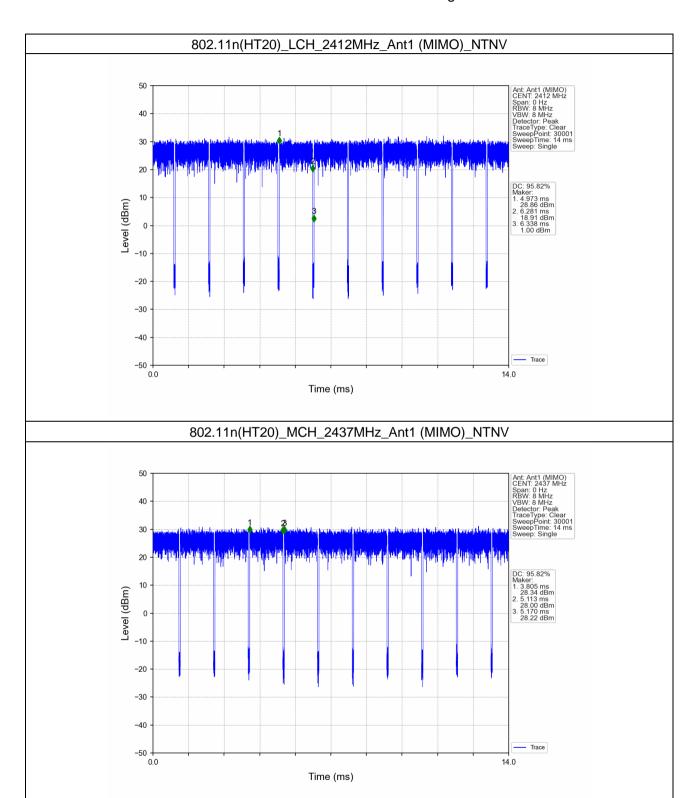
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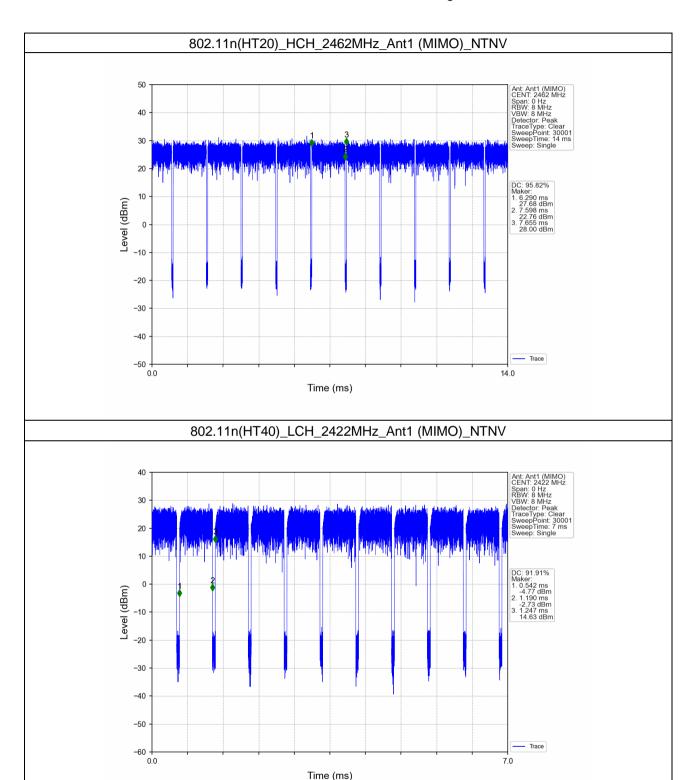
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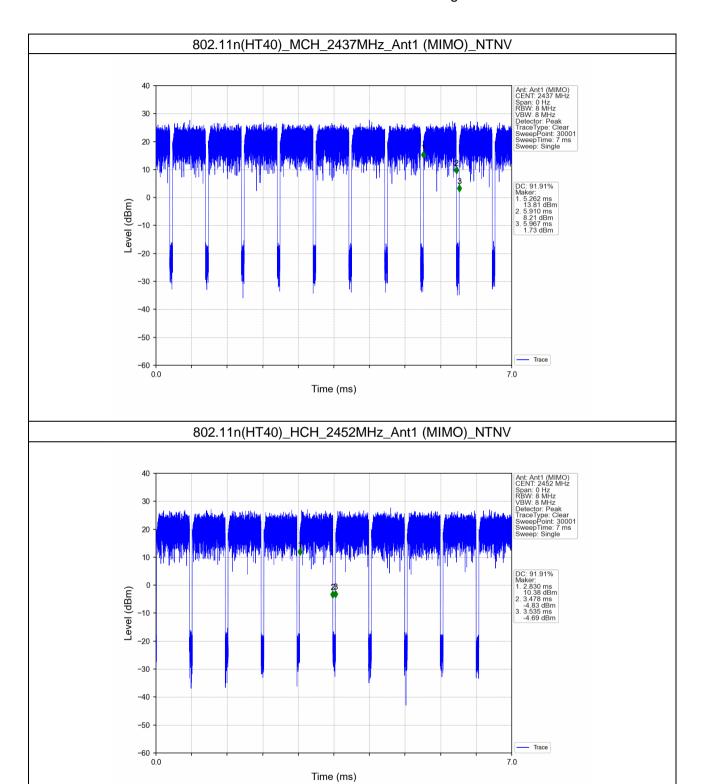
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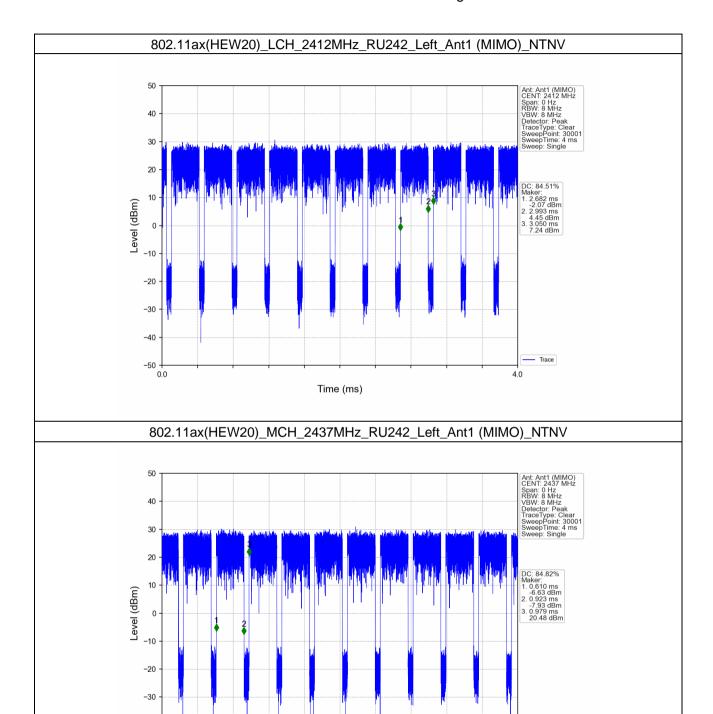
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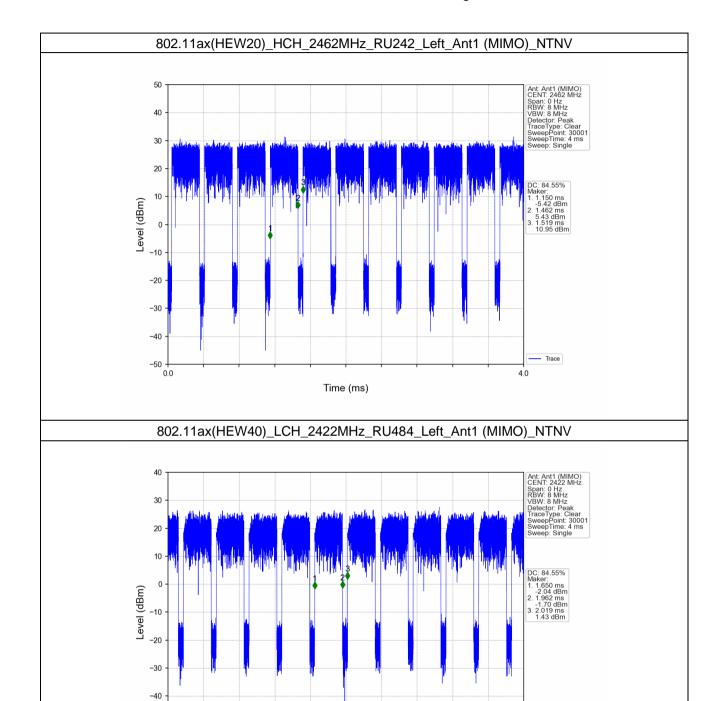
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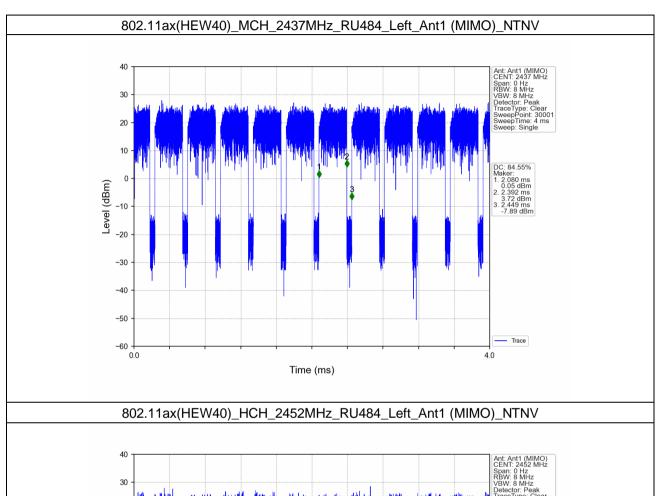
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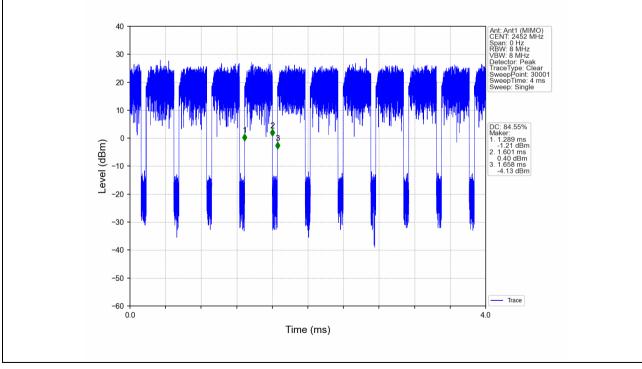


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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)	Verdict
	Турс	(1711 12)		1 03		Result	
		2412	/	/	1	16.904	Pass
802.11b	MIMO	2437	/	/	1	12.957	Pass
		2462	/	/	1	12.615	Pass
		2412	/	/	1	18.038	Pass
802.11g	MIMO	2437	/	/	1	21.090	Pass
		2462	/	/	1	19.870	Pass
		2412	/	/	1	20.995	Pass
802.11n (HT20)	MIMO	2437	/	/	1	21.454	Pass
(11120)		2462	/	/	1	20.766	Pass
		2422	/	/	1	37.564	Pass
802.11n (HT40)	MIMO	2437	/	/	1	37.415	Pass
(11140)		2452	/	/	1	37.300	Pass
		2412	RU242	Left	1	19.097	Pass
802.11ax (HEW20)	MIMO	2437	RU242	Left	1	19.632	Pass
(1127720)		2462	RU242	Left	1	19.607	Pass
		2422	RU484	Left	1	38.151	Pass
802.11ax (HEW40)	MIMO	2437	RU484	Left	1	38.181	Pass
(1127740)		2452	RU484	Left	1	38.197	Pass

Note: All the ANTS were conducted the tests. only the worst-case ATN1 is recorded in the test report.



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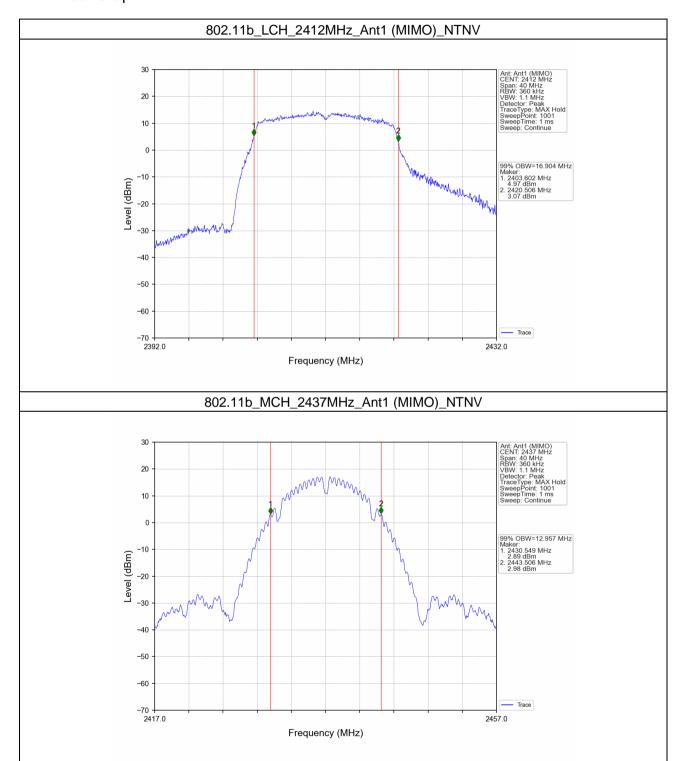


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2.1.2 Test Graph





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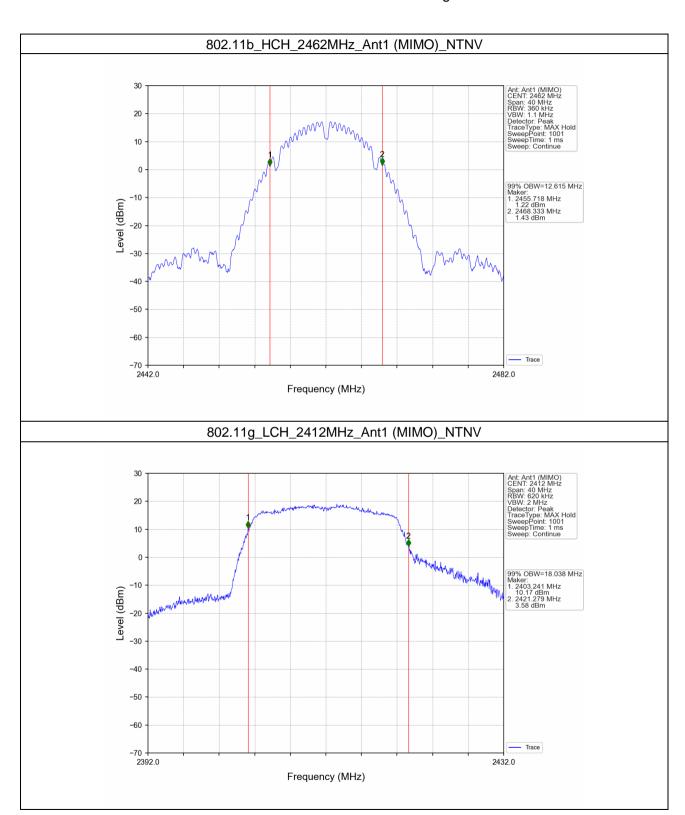
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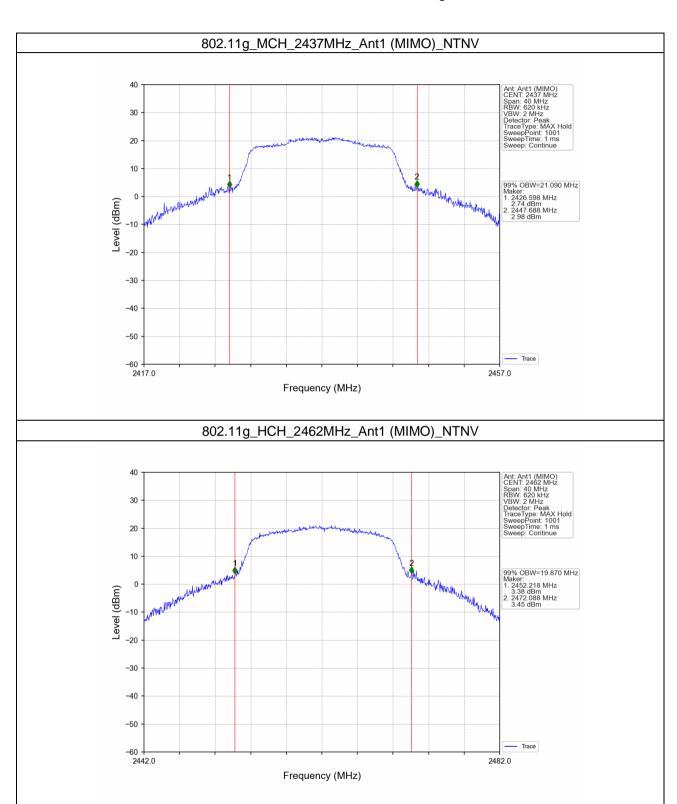
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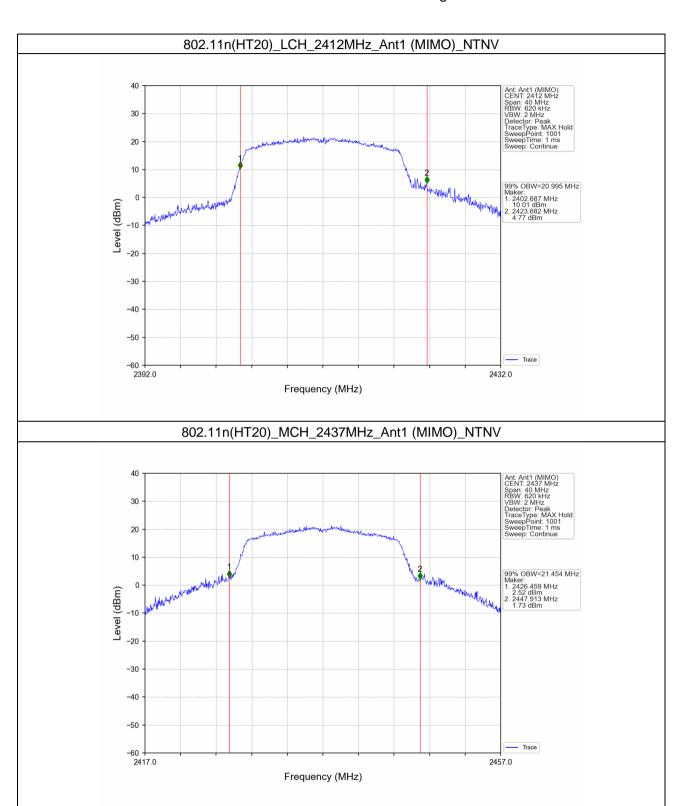
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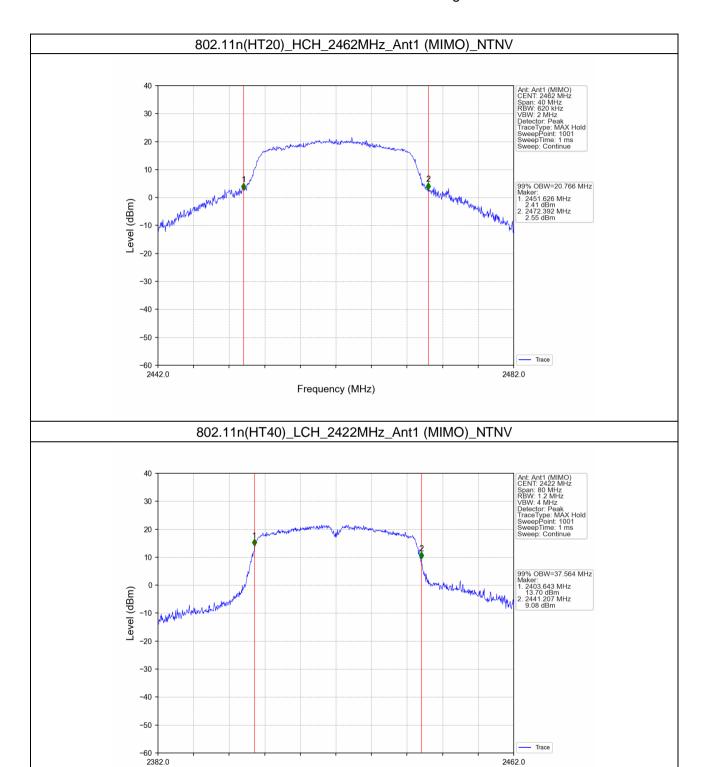
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Frequency (MHz)

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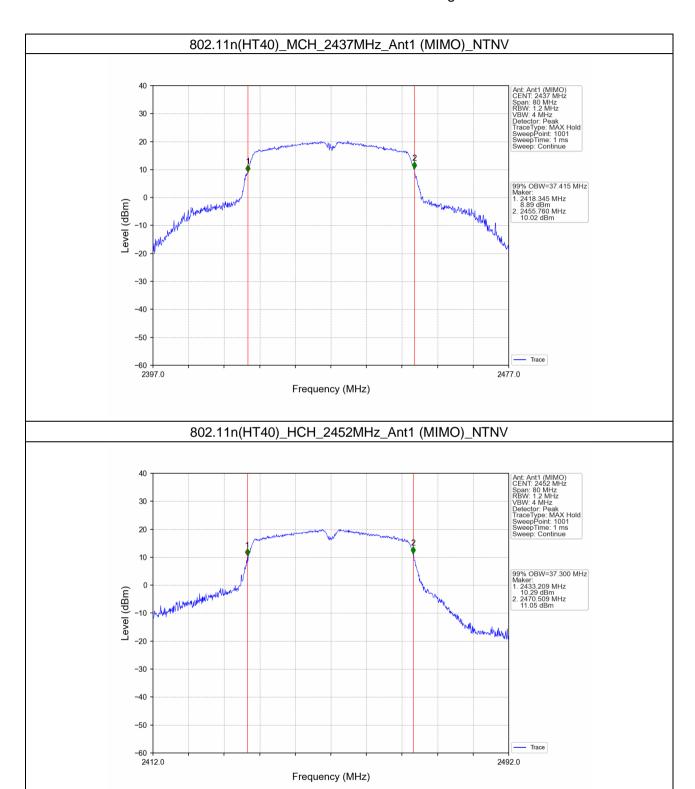
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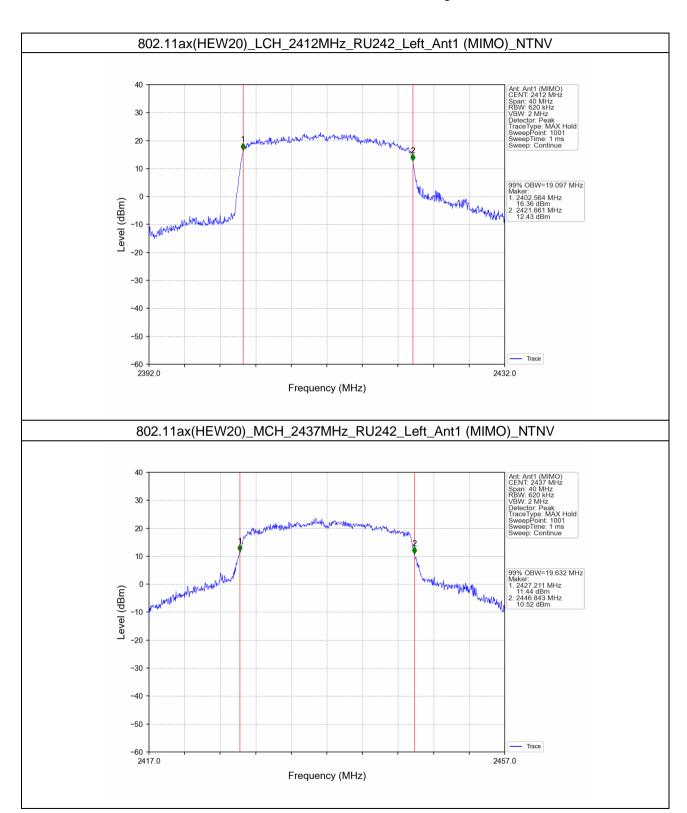
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