

TEST REPORT

Application No.: SZCR2607003431AT
Applicant: AltoBeam Inc.
Address of Applicant: B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian Beijing China
Manufacturer: AltoBeam Inc.
Address of Manufacturer: B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian Beijing China
Factory: AltoBeam Inc.
Address of Factory: C234, Research Institute of Tsinghua University, Shenzhen High-Tech Industrial Park, China

Equipment Under Test (EUT):

EUT Name: AB6031X-44PF-03 Wi-Fi and BLE module
Model No.: AB6031X-44PF-03
Trade Mark: AltoBeam
FCC ID: 2BAVS-AB6031X44PF03
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2026-07-28
Date of Test: 2026-08-17 to 2026-08-20
Date of Issue: 2026-08-24

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager



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SZEMC-TRF-01 Rev. A/2

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-08-24		Original

Authorized for issue by:				
		Tree Zhan		
		Tree Zhan/Project Engineer		
		Eric 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
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10-2020+Cor.1-2023 Section 6.10.5 & 11.12	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10-2020+Cor.1-2023 Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10-2020+Cor.1-2023 Section 6.6 & 11.12	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Remark:

Model No.: AB6031X-44PF-03

This test report (Ref. No.: SZCR260700343102) is only valid with the original test report (Ref. No.: SZCR250700336402).

According to the declaration from the applicant, the models in this report and models in original report were identical, only difference on the antenna.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report of section 2 were fully retested on model and shown the data in this report, other tests please refer to original report SZCR250700336402.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5V
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz; 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (DBPSK, DQPSK, CCK); 802.11g/n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
Number of Channels:	802.11b/g/n(HT20):11;802.11n(HT40):7
Channel Spacing:	5MHz
Antenna Type:	FPC
Antenna Gain:	4.11 dBi

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	HUAWEI	HW-050200E01	REF. No.SEA05E03F

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Spurious Emissions Above 1GHz	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (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.
- the measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



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4.4 Test Location

All tests were performed at:

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

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-12-16	2026-12-15
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025-12-16	2026-12-15
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2025-12-13	2026-12-12
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Coaxial Cable	SGS	N/A	SEM039-01	2026-07-04	2027-07-03

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2026-03-29	2029-03-28
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2026-03-31	2027-03-30
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2026-02-02	2027-02-01
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2026-07-04	2027-07-03

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-12-16	2026-12-15
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-12-16	2026-12-15
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025-12-16	2026-12-15
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2025-12-13	2026-12-12
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2025-12-13	2026-12-12
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A



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Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Coaxial Cable	SGS	N/A	SEM039-01	2026-07-04	2027-07-03

General used equipment

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2026-07-08	2027-07-07
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2026-04-01	2027-03-31
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2026-02-14	2027-02-13



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 4.11 dBi.

Antenna location: Refer to internal photo.



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7 Radio Spectrum Matter Test Results

7.1 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.10.5 & 11.12
Measurement Distance: 3m
Test Engineer: Xing Guo

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.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 43.4 % 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



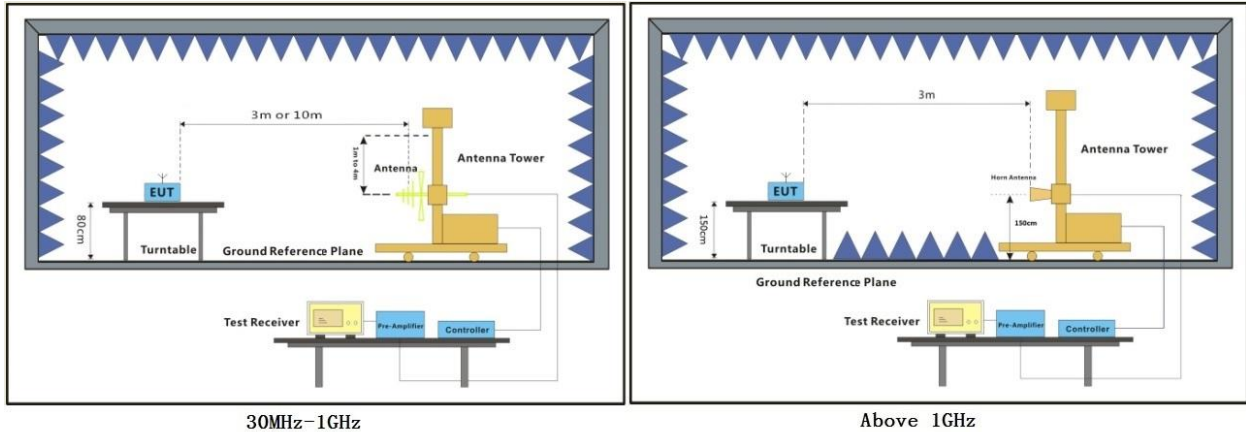
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7.1.3 Test Setup Diagram



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

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



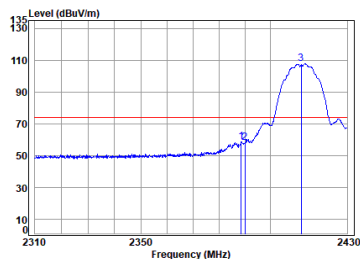
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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

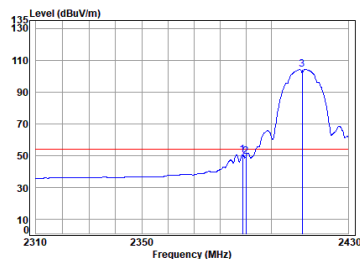
11b_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2388.637	6.82	27.68	30.60	54.55	58.45	74.00	-15.55	Peak	0.00
2	2390.000	6.83	27.68	30.60	54.01	57.92	74.00	-16.08	Peak	0.00
3 pp	2412.000	6.91	27.72	30.60	103.61	107.64	74.00	33.64	Peak	0.00

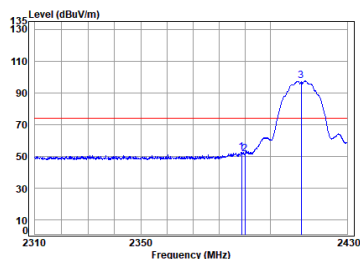
11b_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2388.758	6.82	27.68	30.60	46.44	50.34	54.00	-3.66	Average	0.00
2	2390.000	6.83	27.68	30.60	45.52	49.43	54.00	-4.57	Average	0.00
3 pp	2412.000	6.91	27.72	30.60	100.20	104.23	54.00	50.23	Average	0.00

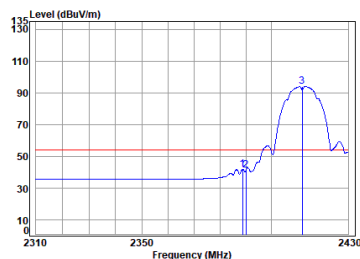
11b_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2388.758	6.82	27.68	30.60	48.41	52.31	74.00	-21.69	Peak	0.00
2	2390.000	6.83	27.68	30.60	47.58	51.49	74.00	-22.51	Peak	0.00
3 pp	2412.000	6.91	27.72	30.60	93.28	97.31	74.00	23.31	Peak	0.00

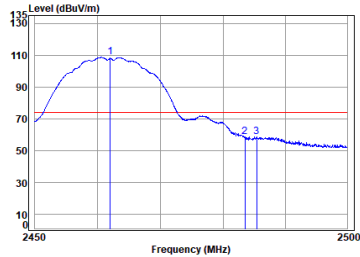
11b_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2388.758	6.82	27.68	30.60	37.67	41.57	54.00	-12.43	Average	0.00
2	2390.000	6.83	27.68	30.60	37.03	40.94	54.00	-13.06	Average	0.00
3 pp	2412.000	6.91	27.72	30.60	89.88	93.91	54.00	39.91	Average	0.00

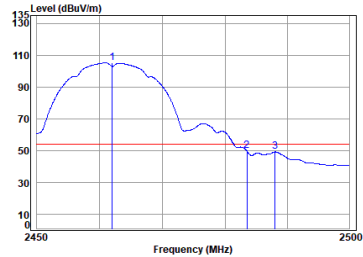
11b_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11b

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 2462.000	7.25	27.85	30.60		104.06	108.58	74.00	34.58	Peak	0.00
2 2483.500	7.40	27.93	30.60		53.75	58.48	74.00	-15.52	Peak	0.00
3 2485.396	7.41	27.94	30.60		53.69	58.44	74.00	-15.56	Peak	0.00

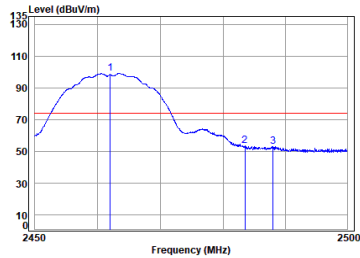
11b_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11b

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 2462.000	7.25	27.85	30.60		100.64	105.14	54.00	51.14	Average	0.00
2 2483.500	7.40	27.93	30.60		44.88	49.61	54.00	-4.39	Average	0.00
3 2488.059	7.43	27.95	30.60		44.26	49.04	54.00	-4.96	Average	0.00

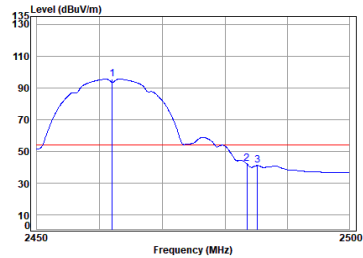
11b_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11b

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 2462.000	7.25	27.85	30.60		94.39	98.89	74.00	24.89	Peak	0.00
2 2483.500	7.40	27.93	30.60		48.55	53.28	74.00	-20.72	Peak	0.00
3 2488.059	7.43	27.95	30.60		48.14	52.92	74.00	-21.08	Peak	0.00

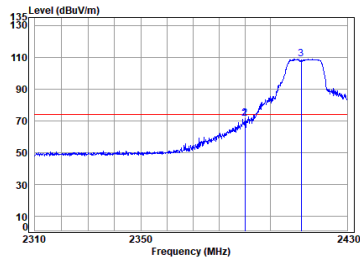
11b_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11b

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 2462.000	7.25	27.85	30.60		90.95	95.45	54.00	41.45	Average	0.00
2 2483.500	7.40	27.93	30.60		37.21	41.94	54.00	-12.06	Average	0.00
3 2485.195	7.41	27.94	30.60		36.14	40.89	54.00	-13.11	Average	0.00

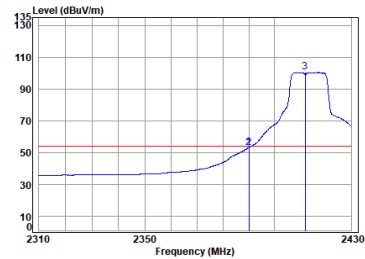
11g_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2389.968	6.83	27.68	30.60		67.58	71.49	74.00	-2.51	Peak	0.00
2	2390.000	6.83	27.68	30.60		67.58	71.49	74.00	-2.51	Peak	0.00
3 pp	2412.000	6.91	27.72	30.60		104.94	108.97	74.00	34.97	Peak	0.00

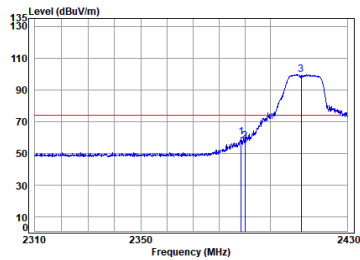
11g_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2389.968	6.83	27.68	30.60		49.15	53.06	54.00	-0.94	Average	0.00
2	2390.000	6.83	27.68	30.60		49.15	53.06	54.00	-0.94	Average	0.00
3 pp	2412.000	6.91	27.72	30.60		96.32	100.35	54.00	46.35	Average	0.00

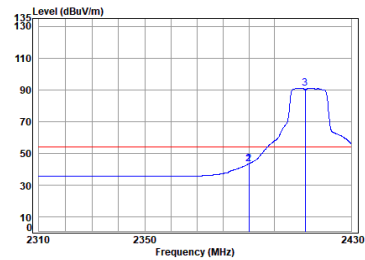
11g_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2388.516	6.82	27.68	30.60		56.17	60.07	74.00	-13.93	Peak	0.00
2	2390.000	6.83	27.68	30.60		53.00	57.71	74.00	-16.29	Peak	0.00
3 pp	2412.000	6.91	27.72	30.60		95.79	99.82	74.00	25.82	Peak	0.00

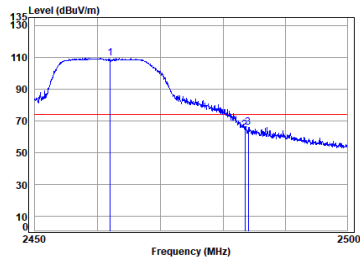
11g_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2389.968	6.83	27.68	30.60		39.29	43.20	54.00	-10.80	Average	0.00
2	2390.000	6.83	27.68	30.60		39.29	43.20	54.00	-10.80	Average	0.00
3 pp	2412.000	6.91	27.72	30.60		86.82	90.85	54.00	36.85	Average	0.00

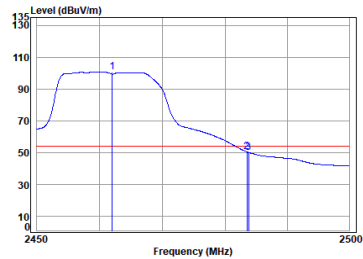
11g_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 2462.000	7.25	27.85	30.60		104.96	109.46	74.00	35.46	Peak	0.00
2	2483.500	7.40	27.93	30.60		59.25	63.98	74.00	-10.02	Peak	0.00
3	2484.041	7.40	27.94	30.60		61.22	65.96	74.00	-8.04	Peak	0.00

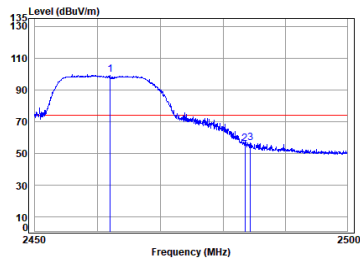
11g_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 2462.000	7.25	27.85	30.60		96.13	100.63	54.00	46.63	Average	0.00
2	2483.500	7.40	27.93	30.60		45.61	50.34	54.00	-3.66	Average	0.00
3	2483.790	7.40	27.94	30.60		45.19	49.93	54.00	-4.07	Average	0.00

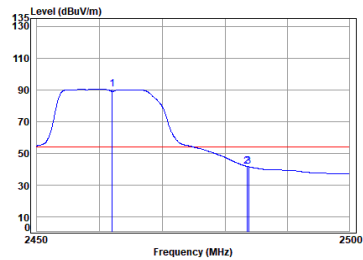
11g_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 2462.000	7.25	27.85	30.60		94.88	99.38	74.00	25.38	Peak	0.00
2	2483.500	7.40	27.93	30.60		51.23	55.96	74.00	-18.04	Peak	0.00
3	2484.392	7.41	27.94	30.60		51.68	56.43	74.00	-17.57	Peak	0.00

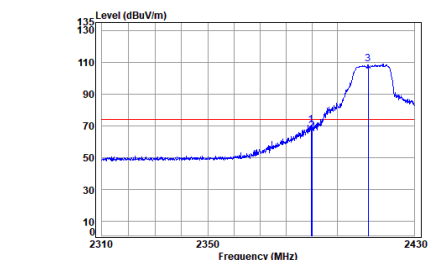
11g_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 2462.000	7.25	27.85	30.60		85.83	90.33	54.00	36.33	Average	0.00
2	2483.500	7.40	27.93	30.60		36.88	41.61	54.00	-12.39	Average	0.00
3	2483.790	7.40	27.94	30.60		36.59	41.33	54.00	-12.67	Average	0.00

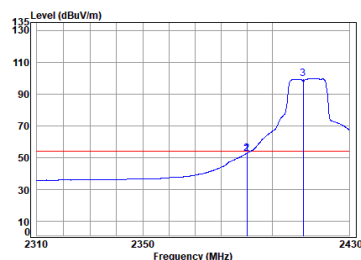
11n_HT(20M)_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	2389.726	6.82	27.68	30.60	66.58	70.48	74.00	-3.52	Peak		0.00
2	2390.000	6.83	27.68	30.60	63.02	66.93	74.00	-7.07	Peak		0.00
3 pp	2412.000	6.91	27.72	30.60	104.79	108.82	74.00	34.82	Peak		0.00

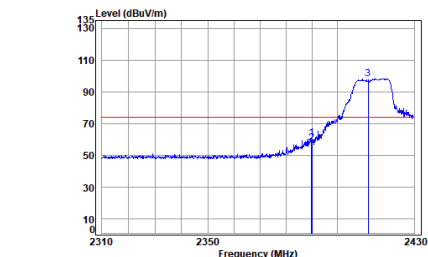
11n_HT(20M)_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	2389.968	6.83	27.68	30.60	48.61	52.52	54.00	-1.48	Average		0.00
2	2390.000	6.83	27.68	30.60	48.61	52.52	54.00	-1.48	Average		0.00
3 pp	2412.000	6.91	27.72	30.60	95.59	99.62	54.00	45.62	Average		0.00

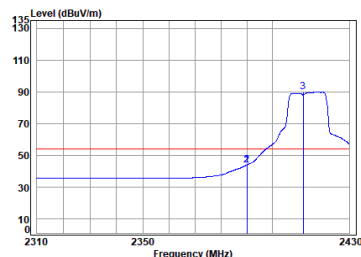
11n_HT(20M)_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	2389.847	6.83	27.68	30.60	56.56	60.47	74.00	-13.53	Peak		0.00
2	2390.000	6.83	27.68	30.60	53.33	57.24	74.00	-16.76	Peak		0.00
3 pp	2412.000	6.91	27.72	30.60	94.14	98.17	74.00	24.17	Peak		0.00

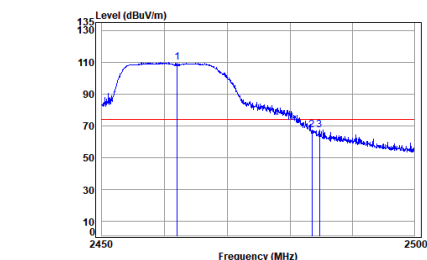
11n_HT(20M)_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	2389.968	6.83	27.68	30.60	39.82	43.73	54.00	-10.27	Average		0.00
2	2390.000	6.83	27.68	30.60	39.82	43.73	54.00	-10.27	Average		0.00
3 pp	2412.000	6.91	27.72	30.60	85.88	89.91	54.00	35.91	Average		0.00

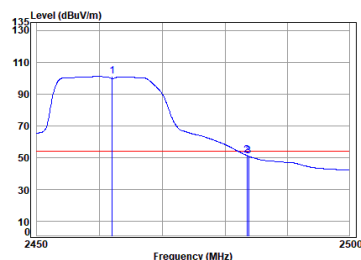
11n_HT(20M)_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2462 Band edge
Cable : 2.46 Wi-Fi 11n20

Freq	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 pp 2462.000	7.25	27.85	30.60	105.44	109.94	74.00	35.94	Peak	0.00
2 2483.500	7.40	27.93	30.60	62.66	67.39	74.00	-6.61	Peak	0.00
3 2484.743	7.41	27.94	30.60	62.69	67.44	74.00	-6.56	Peak	0.00

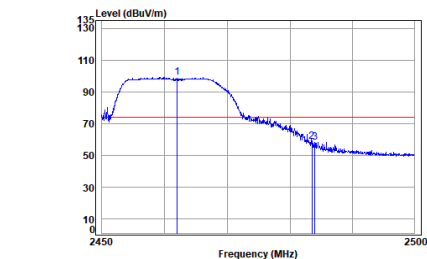
11n_HT(20M)_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2462 Band edge
Cable : 2.46 Wi-Fi 11n20

Freq	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 pp 2462.000	7.25	27.85	30.60	96.45	100.95	54.00	46.95	Average	0.00
2 2483.500	7.40	27.93	30.60	46.45	51.18	54.00	-2.82	Average	0.00
3 2483.790	7.40	27.94	30.60	45.98	50.72	54.00	-3.28	Average	0.00

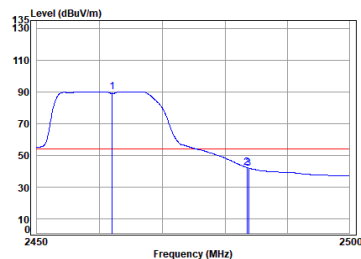
11n_HT(20M)_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2462 Band edge
Cable : 2.46 Wi-Fi 11n20

Freq	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 pp 2462.000	7.25	27.85	30.60	94.67	99.17	74.00	25.17	Peak	0.00
2 2483.500	7.40	27.93	30.60	53.63	58.36	74.00	-15.64	Peak	0.00
3 2483.998	7.40	27.94	30.60	53.28	58.02	74.00	-15.98	Peak	0.00

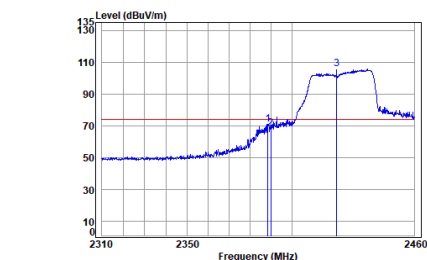
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Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2462 Band edge
Cable : 2.46 Wi-Fi 11n20

Freq	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 pp 2462.000	7.25	27.85	30.60	85.51	90.01	54.00	36.01	Average	0.00
2 2483.500	7.40	27.93	30.60	37.45	42.18	54.00	-11.82	Average	0.00
3 2483.790	7.40	27.94	30.60	37.08	41.82	54.00	-12.18	Average	0.00

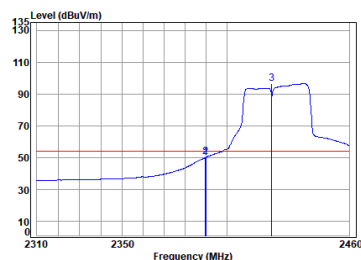
11n_HT(40M)_TX_CH_03_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2422 Band edge
: 2.4G Wi-Fi 11n40

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2388.625	6.82	27.68	30.60		67.10	71.00	74.00	-3.00	Peak	0.00
2	2390.000	6.83	27.68	30.60		64.38	68.29	74.00	-5.71	Peak	0.00
3 pp	2422.000	6.98	27.74	30.60		101.41	105.53	74.00	31.53	Peak	0.00

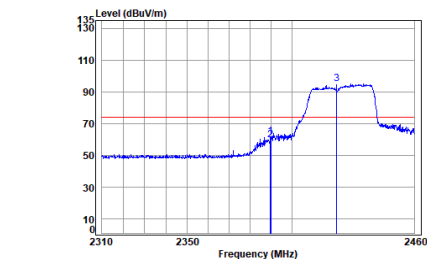
11n_HT(40M)_TX_CH_03_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2422 Band edge
: 2.4G Wi-Fi 11n40

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2389.827	6.83	27.68	30.60		46.06	49.97	54.00	-4.03	Average	0.00
2	2390.000	6.83	27.68	30.60		46.15	50.06	54.00	-3.94	Average	0.00
3 pp	2422.000	6.98	27.74	30.60		92.39	96.51	54.00	42.51	Average	0.00

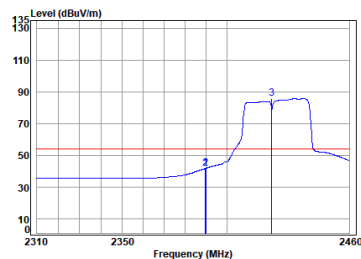
11n_HT(40M)_TX_CH_03_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2422 Band edge
: 2.4G Wi-Fi 11n40

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2389.827	6.83	27.68	30.60		57.72	61.63	74.00	-12.37	Peak	0.00
2	2390.000	6.83	27.68	30.60		55.49	59.40	74.00	-14.60	Peak	0.00
3 pp	2422.000	6.98	27.74	30.60		90.63	94.75	74.00	20.75	Peak	0.00

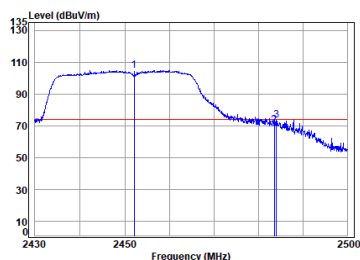
11n_HT(40M)_TX_CH_03_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2422 Band edge
: 2.4G Wi-Fi 11n40

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2389.827	6.83	27.68	30.60		37.66	41.51	54.00	-12.49	Average	0.00
2	2390.000	6.83	27.68	30.60		37.66	41.57	54.00	-12.43	Average	0.00
3 pp	2422.000	6.98	27.74	30.60		81.66	85.78	54.00	31.78	Average	0.00

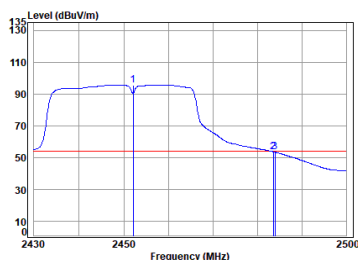
11n_HT(40M)_TX_CH_09_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2452 Band edge
: 2.4G Wi-Fi 11n40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 2452.000	7.19	27.81	30.60	100.55	104.95	74.00	30.95	Peak	0.00
2 2483.500	7.40	27.93	30.60	65.73	70.46	74.00	-3.54	Peak	0.00
3 2484.000	7.40	27.94	30.60	68.77	73.51	74.00	-0.49	Peak	0.00

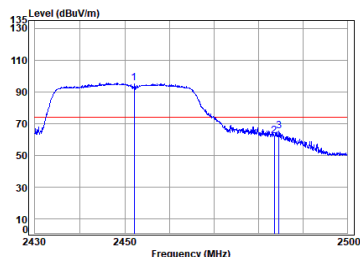
11n_HT(40M)_TX_CH_09_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2452 Band edge
: 2.4G Wi-Fi 11n40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 2452.000	7.19	27.81	30.60	81.30	95.70	54.00	41.70	Average	0.00
2 2483.500	7.40	27.93	30.60	48.83	53.56	54.00	-0.44	Average	0.00
3 2483.865	7.40	27.94	30.60	48.59	53.33	54.00	-0.67	Average	0.00

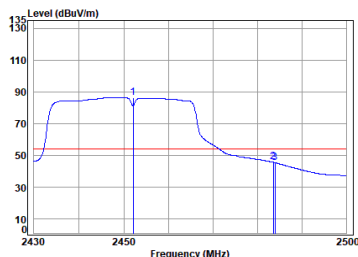
11n_HT(40M)_TX_CH_09_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2452 Band edge
: 2.4G Wi-Fi 11n40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 2452.000	7.19	27.81	30.60	91.21	95.61	74.00	21.61	Peak	0.00
2 2483.500	7.40	27.93	30.60	57.54	62.27	74.00	-11.73	Peak	0.00
3 2484.578	7.41	27.94	30.60	60.40	65.15	74.00	-8.85	Peak	0.00

11n_HT(40M)_TX_CH_09_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2452 Band edge
: 2.4G Wi-Fi 11n40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 2452.000	7.19	27.81	30.60	81.94	86.34	54.00	32.34	Average	0.00
2 2483.500	7.40	27.93	30.60	40.70	45.43	54.00	-8.57	Average	0.00
3 2483.865	7.40	27.94	30.60	40.47	45.21	54.00	-8.79	Average	0.00

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7.2 Radiated Spurious Emissions Below 1GHz

Test Requirement: 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.4,6.5
 Measurement Distance: 3m
 Test Engineer: Mason Wu

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

Note

1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.4 °C Humidity: 42.8 % RH Atmospheric Pressure: 1015 mbar



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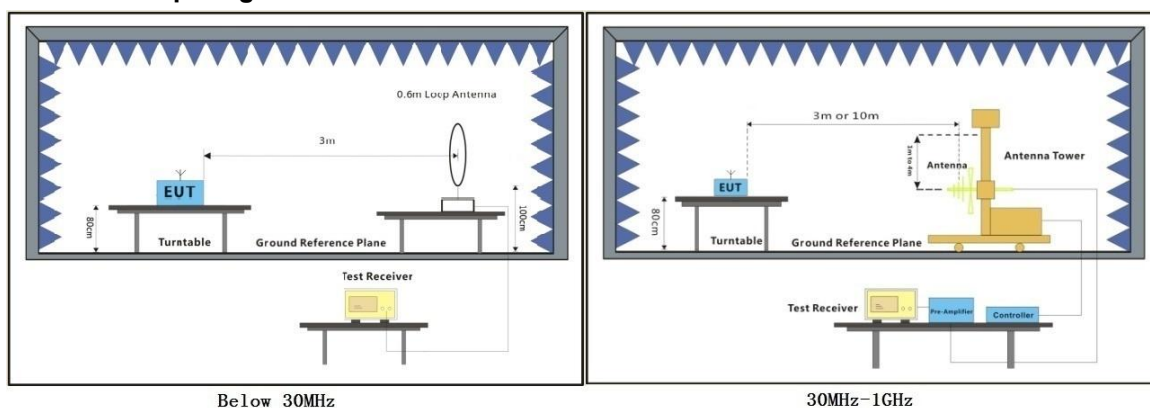
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7.2.2 Test Mode Description

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

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- c. The antenna height is varied from 1m to 4m 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 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) 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 Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
2. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.



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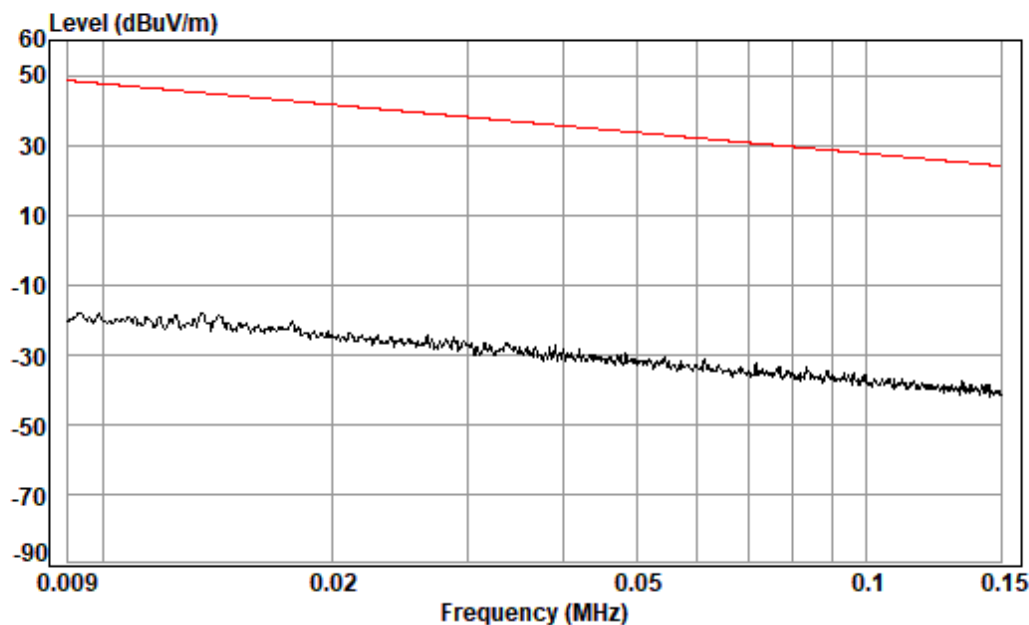
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Test Mode: 00



Condition: 3m

Job No. : 03431AT

Test Mode: 00

: coaxial



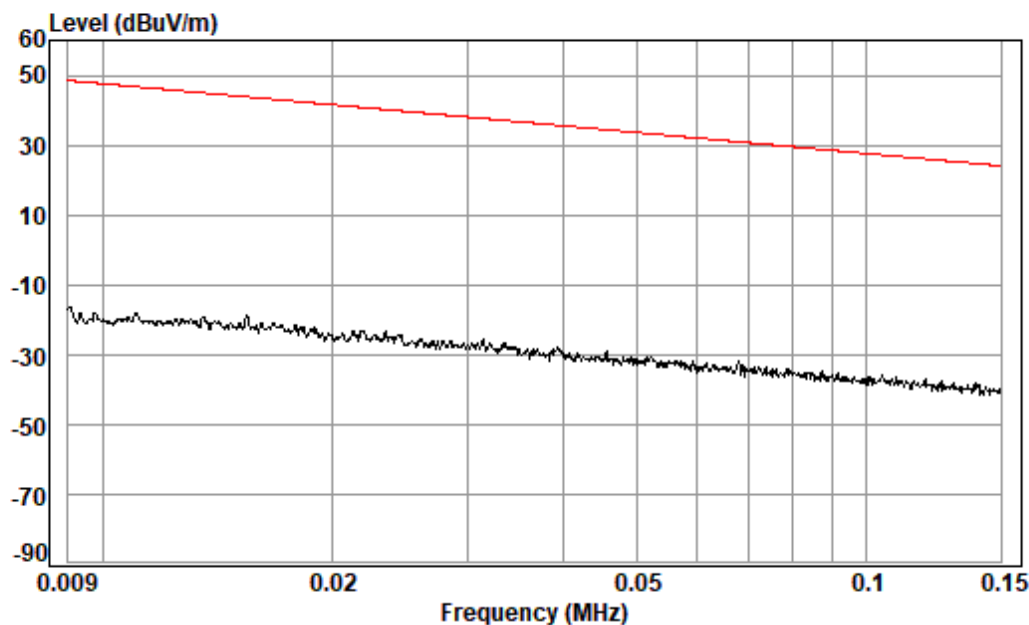
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Test Mode: 00



Condition: 3m

Job No. : 03431AT

Test Mode: 00

: coplanar



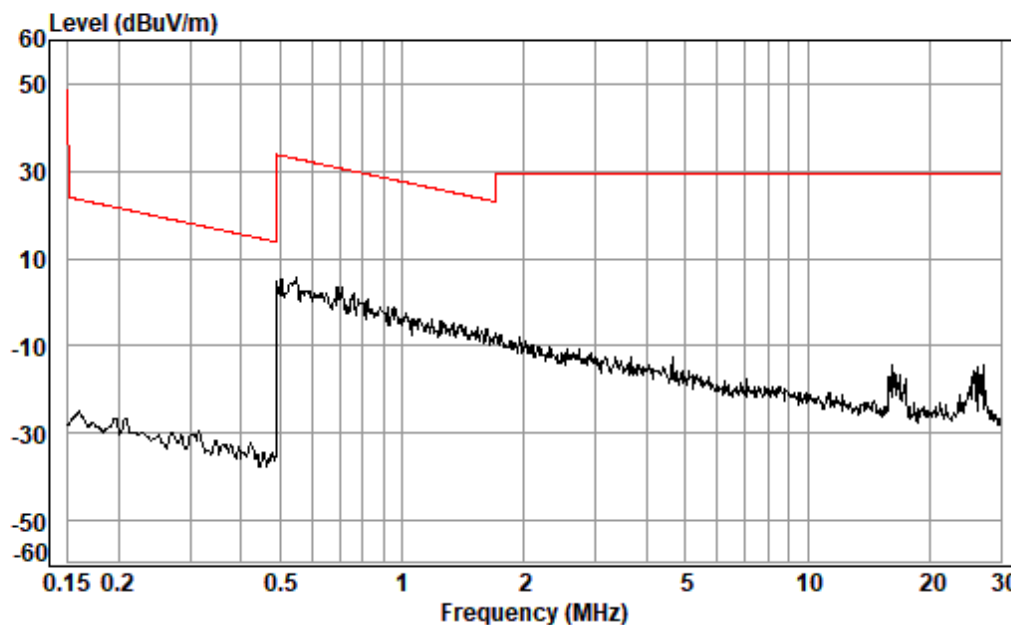
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Test Mode: 00



Condition: 3m

Job No. : 03431AT

Test Mode: 00

: coaxial



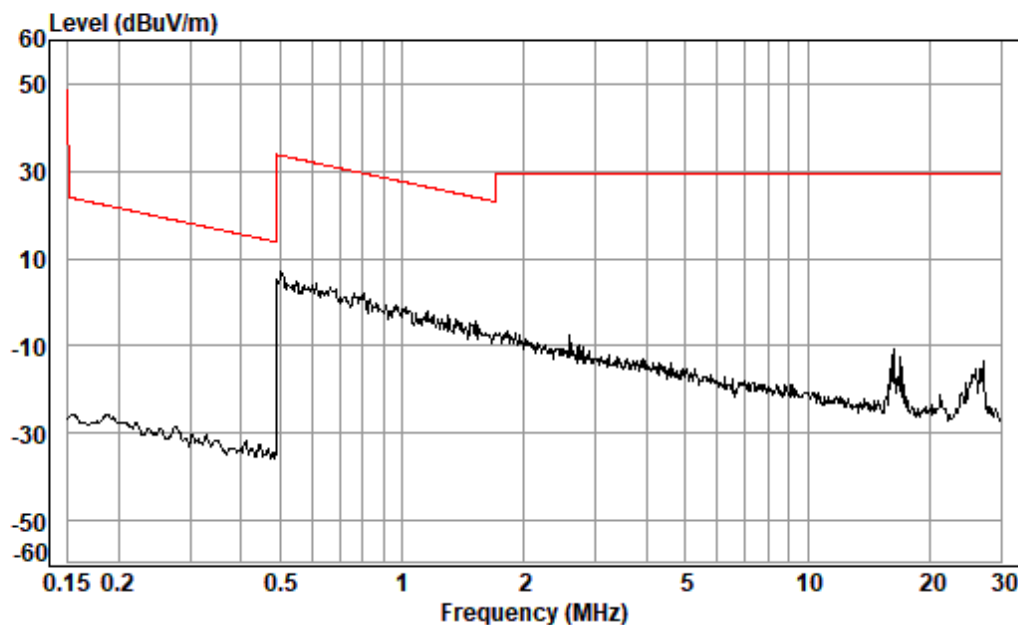
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Test Mode: 00



Condition: 3m

Job No. : 03431AT

Test Mode: 00

: coplanar



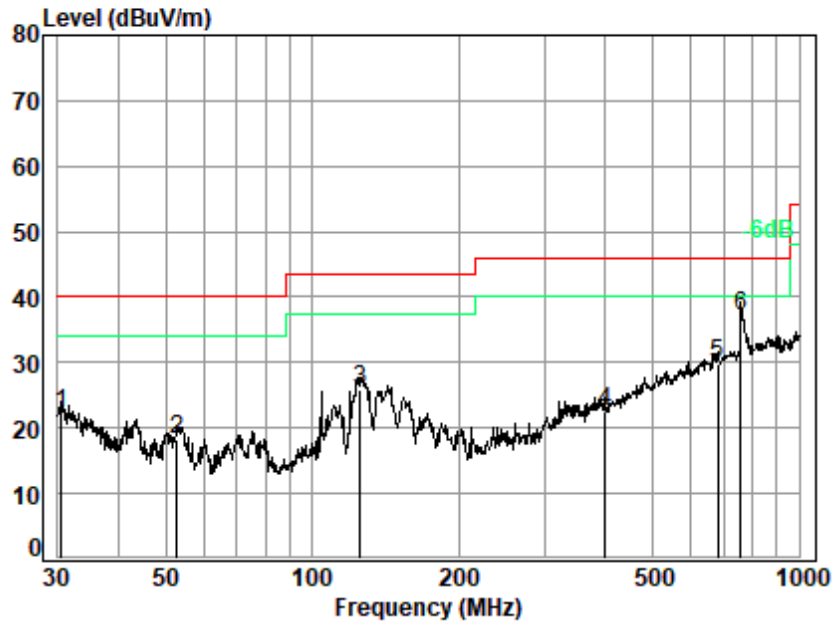
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Test Mode: 00; Polarity: Horizontal



Condition: 3m HORIZONTAL

Job No. : 03431AT/03432AT

Test Mode: 00

		Ant	Cable	Preamp	Read	Limit	Over	
	Freq	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.531	21.44	0.74	27.54	27.45	22.09	40.00	-17.91 QP
2	52.760	12.61	0.91	26.88	31.57	18.21	40.00	-21.79 QP
3	125.446	11.22	1.38	26.95	40.13	25.78	43.50	-17.72 QP
4	399.030	20.36	2.49	27.87	27.57	22.55	46.00	-23.45 QP
5	679.960	25.51	3.35	27.10	28.00	29.76	46.00	-16.24 QP
6 q	758.041	26.10	3.58	26.83	34.30	37.15	46.00	-8.85 QP



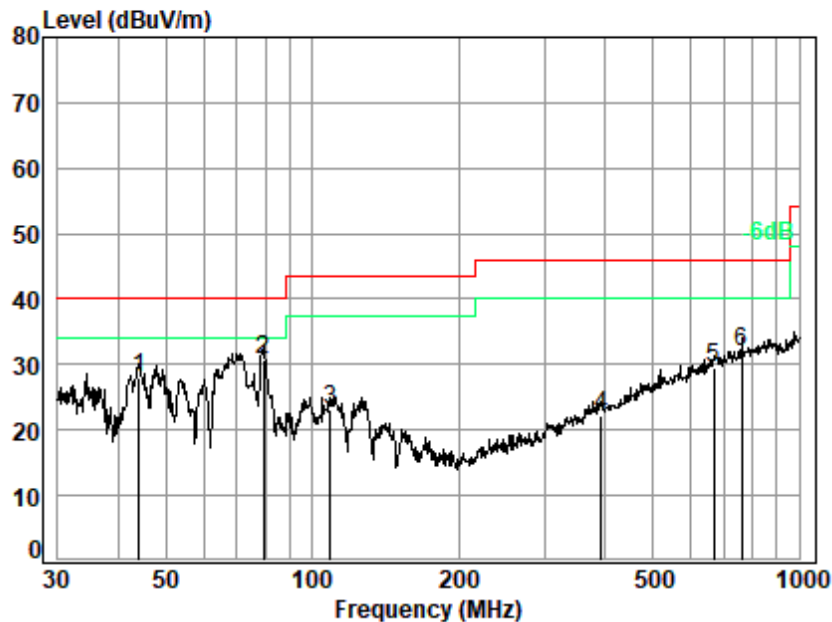
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Test Mode: 00; Polarity: Vertical



Condition: 3m VERTICAL

Job No. : 03431AT/03432AT

Test Mode: 00

		Ant	Cable	Preamp	Read	Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	43.966	14.92	0.85	27.10	39.36	28.03	40.00	-11.97 QP
2 q	79.243	10.68	1.09	26.38	45.34	30.73	40.00	-9.27 QP
3	109.029	12.09	1.28	26.42	36.12	23.07	43.50	-20.43 QP
4	392.095	20.46	2.46	27.89	27.22	22.25	46.00	-23.75 QP
5	668.142	25.39	3.32	27.14	27.83	29.40	46.00	-16.60 QP
6	763.376	26.25	3.59	26.81	29.06	32.09	46.00	-13.91 QP



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Shenzhen Branch Calibration Laboratory

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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260700343102

Page: 30 of 39

7.3 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.6 & 11.12
 Measurement Distance: 3m
 Test Engineer: Xing Guo

Limit:

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

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(1/3) = -9.54\text{dB}$ (for 1m test distance).

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 43.0 % 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

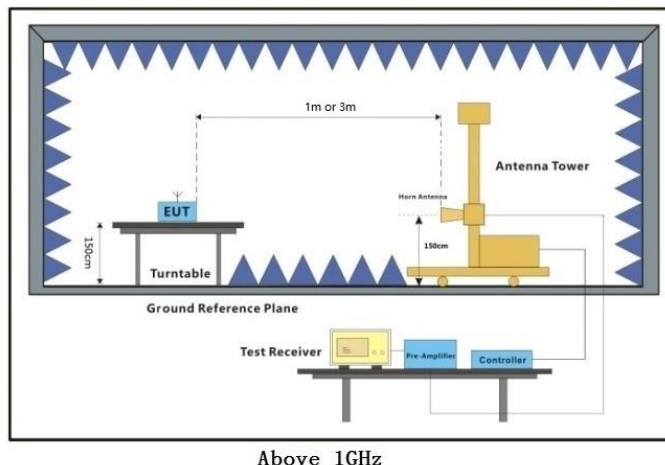


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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

- For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.
- The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.
- The antenna height is varied from 1m to 4m 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.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

Remark:

- Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.
- 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.
- For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.
- For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s).



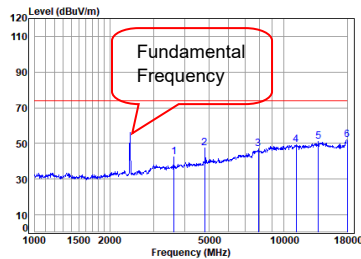
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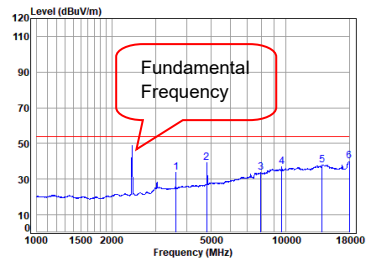
11b_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11b

Freq	Cable	Loss	Ant	Preamp	Read	Limit	Over	Aux
MHz	dB	Factor	Factor	Level	Level	Line	Limit	Factor
				dBuV	dBuV/m	dBuV/m	dB	
1	3619.064	7.78	29.91	54.93	59.89	42.65	74.00	-31.35 Peak
2	4818.016	8.92	32.67	55.93	61.87	47.53	74.00	-26.47 Peak
3	7920.911	11.48	37.30	55.94	54.33	47.17	74.00	-26.83 Peak
4	11237.330	14.30	39.46	53.43	49.12	49.45	74.00	-24.55 Peak
5	13797.090	15.61	40.30	54.04	49.19	51.06	74.00	-22.94 Peak
6	pp18000.000	18.64	42.60	54.30	45.24	52.18	74.00	-21.82 Peak

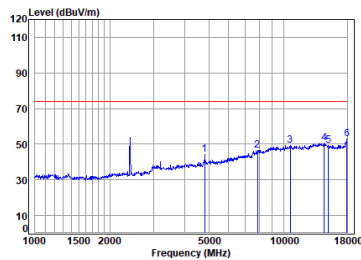
11b_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11b

Freq	Cable	Loss	Ant	Preamp	Read	Limit	Over	Aux
MHz	dB	Factor	Factor	Level	Level	Line	Limit	Factor
				dBuV	dBuV/m	dBuV/m	dB	
1	3619.064	7.78	29.91	54.93	51.13	33.89	54.00	-20.11 Average
2	4818.016	8.92	32.67	55.93	53.73	39.39	54.00	-14.61 Average
3	7943.838	11.48	37.30	55.93	40.84	33.69	54.00	-20.31 Average
4	9641.257	12.48	38.63	53.98	39.94	37.07	54.00	-16.93 Average
5	13997.930	16.53	40.59	54.10	34.97	37.99	54.00	-16.01 Average
6	pp18000.000	18.64	42.60	54.30	33.29	40.23	54.00	-13.77 Average

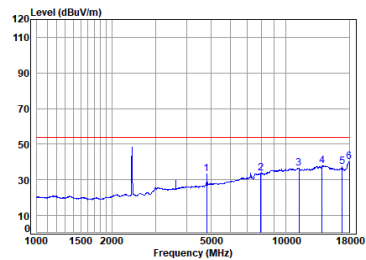
11b_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11b

Freq	Cable	Loss	Ant	Preamp	Read	Limit	Over	Aux
MHz	dB	Factor	Factor	Level	Level	Line	Limit	Factor
				dBuV	dBuV/m	dBuV/m	dB	
1	4818.016	8.92	32.67	55.93	58.67	44.33	74.00	-29.67 Peak
2	7852.524	11.36	37.11	55.98	54.19	46.68	74.00	-27.32 Peak
3	10636.850	13.44	39.30	53.54	50.04	49.24	74.00	-24.76 Peak
4	14575.970	16.46	40.20	54.10	48.19	50.75	74.00	-23.25 Peak
5	15134.000	16.85	39.37	54.04	47.29	49.47	74.00	-24.53 Peak
6	pp17948.050	18.75	42.29	54.28	45.98	52.74	74.00	-21.26 Peak

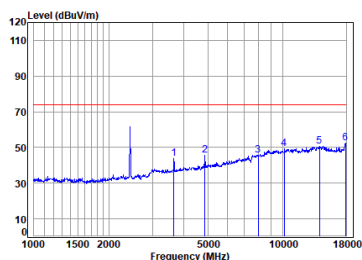
11b_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11b

Freq	Cable	Loss	Ant	Preamp	Read	Limit	Over	Aux
MHz	dB	Factor	Factor	Level	Level	Line	Limit	Factor
				dBuV	dBuV/m	dBuV/m	dB	
1	4818.016	8.92	32.67	55.93	47.72	33.38	54.00	-20.62 Average
2	7943.838	11.48	37.30	55.93	41.00	33.85	54.00	-20.15 Average
3	11302.400	14.39	39.40	53.41	36.26	36.64	54.00	-17.36 Average
4	13997.930	16.53	40.59	54.10	34.94	37.96	54.00	-16.04 Average
5	16891.040	19.64	38.60	53.88	33.23	37.59	54.00	-16.41 Average
6	pp18000.000	18.64	42.60	54.30	33.38	40.32	54.00	-13.68 Average

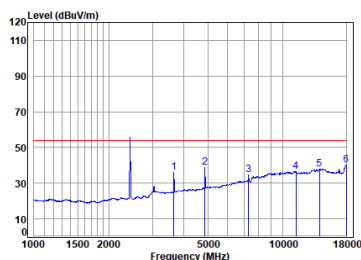
11b_TX_CH_06_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit	Remark
1	3650.582	7.83	30.10	54.94	60.72	43.71	74.00	-30.29	Peak	0.00
2	4874.043	8.97	32.85	55.99	59.94	45.77	74.00	-28.23	Peak	0.00
3	7966.832	11.47	37.27	55.92	52.98	45.08	74.00	-28.20	Peak	0.00
4	10156.140	12.86	39.01	53.58	50.99	49.28	74.00	-24.72	Peak	0.00
5	14038.450	16.47	40.52	54.10	47.83	50.72	74.00	-23.28	Peak	0.00
6	pp17896.258	18.87	41.97	54.26	45.76	52.34	74.00	-21.66	Peak	0.00

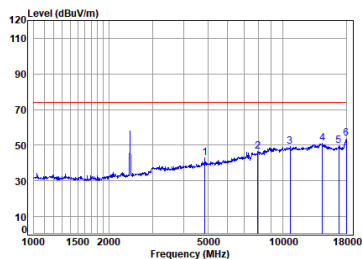
11b_TX_CH_06_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit	Remark
1	3650.582	7.83	30.10	54.94	53.06	36.05	54.00	-17.95	Average	0.00
2	4874.043	8.97	32.85	55.99	52.80	38.63	54.00	-15.37	Average	0.00
3	7966.832	11.11	36.90	56.31	42.76	34.46	54.00	-19.54	Average	0.00
4	11302.400	14.39	39.40	53.41	36.27	36.65	54.00	-17.35	Average	0.00
5	14038.450	16.47	40.52	54.10	35.14	38.63	54.00	-15.97	Average	0.00
6	pp18000.000	18.64	42.60	54.30	33.18	40.12	54.00	-13.88	Average	0.00

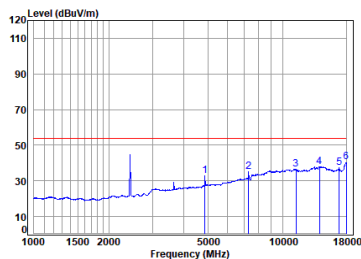
11b_TX_CH_06_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit	Remark
1	4874.043	8.97	32.85	55.99	57.15	42.98	74.00	-31.02	Peak	0.00
2	7943.838	11.48	37.30	55.93	53.77	46.62	74.00	-27.38	Peak	0.00
3	10729.400	13.53	39.33	53.53	49.74	49.07	74.00	-24.93	Peak	0.00
4	14450.130	16.62	40.30	54.10	48.17	50.99	74.00	-23.01	Peak	0.00
5	16842.290	18.46	38.60	53.87	46.53	49.72	74.00	-24.28	Peak	0.00
6	pp18000.000	18.64	42.60	54.30	46.84	53.78	74.00	-20.22	Peak	0.00

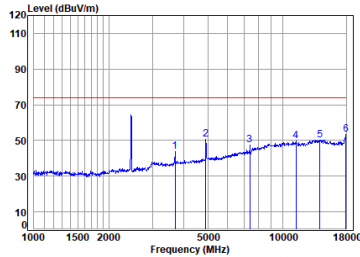
11b_TX_CH_06_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit	Remark
1	4874.043	8.97	32.85	55.99	46.81	32.64	54.00	-21.36	Average	0.00
2	7966.832	11.11	36.90	56.31	43.53	35.23	54.00	-18.77	Average	0.00
3	11302.400	14.39	39.40	53.41	36.32	36.70	54.00	-17.30	Average	0.00
4	14079.080	16.38	40.44	54.10	35.18	37.90	54.00	-16.10	Average	0.00
5	16891.040	19.64	38.60	53.88	33.27	37.63	54.00	-15.37	Average	0.00
6	pp18000.000	18.64	42.60	54.30	33.52	40.46	54.00	-13.54	Average	0.00

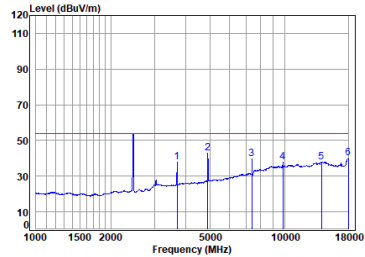
11b_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	3693.033	7.88	30.10	54.96	60.60	43.62	74.00	-30.38	Peak	0.00	
2	4916.490	9.02	32.97	56.02	64.75	50.72	74.00	-23.28	Peak	0.00	
3	7390.070	11.19	36.74	56.26	55.69	47.36	74.00	-26.64	Peak	0.00	
4	11302.400	14.39	39.40	53.41	49.26	49.64	74.00	-24.36	Peak	0.00	
5	14119.830	16.40	40.42	54.10	47.57	50.29	74.00	-23.71	Peak	0.00	
6	pp17948.050	18.75	42.29	54.28	46.57	53.33	74.00	-20.67	Peak	0.00	

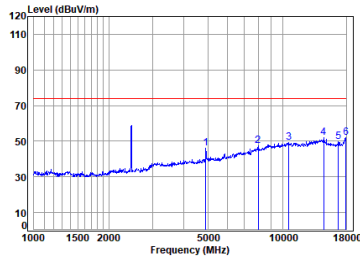
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Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	3693.033	7.88	30.10	54.96	54.97	37.99	54.00	-16.01	Average	0.00	
2	pp 4916.490	9.02	32.97	56.02	56.77	42.74	54.00	-11.26	Average	0.00	
3	7390.070	11.19	36.74	56.26	48.06	39.73	54.00	-14.27	Average	0.00	
4	9830.312	12.87	38.50	53.77	40.24	37.84	54.00	-16.16	Average	0.00	
5	14038.450	16.47	40.52	54.10	35.11	38.00	54.00	-16.00	Average	0.00	
6	18000.000	18.64	42.60	54.30	33.41	40.35	54.00	-13.65	Average	0.00	

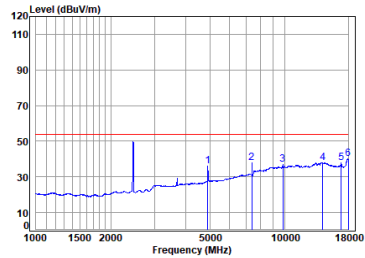
11b_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	4916.490	9.02	32.97	56.02	60.06	46.03	74.00	-27.97	Peak	0.00	
2	7966.832	11.47	37.27	55.92	54.48	47.30	74.00	-26.70	Peak	0.00	
3	10606.150	13.38	39.30	53.54	49.91	49.05	74.00	-24.95	Peak	0.00	
4	14618.170	16.62	40.20	54.10	49.18	51.90	74.00	-22.10	Peak	0.00	
5	16745.210	17.62	38.55	53.85	47.32	49.64	74.00	-24.36	Peak	0.00	
6	pp17948.050	18.75	42.29	54.28	45.46	52.22	74.00	-21.78	Peak	0.00	

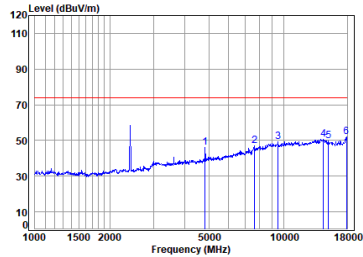
11b_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	4916.490	9.02	32.97	56.02	50.00	35.97	54.00	-18.03	Average	0.00	
2	7390.070	11.19	36.74	56.26	46.33	38.00	54.00	-16.00	Average	0.00	
3	9830.312	12.87	38.50	53.77	39.41	37.01	54.00	-16.99	Average	0.00	
4	14242.800	16.83	40.46	54.10	34.73	37.92	54.00	-16.08	Average	0.00	
5	16891.040	19.64	38.60	53.88	33.43	37.79	54.00	-16.21	Average	0.00	
6	pp18000.000	18.64	42.60	54.30	33.23	40.17	54.00	-13.83	Average	0.00	

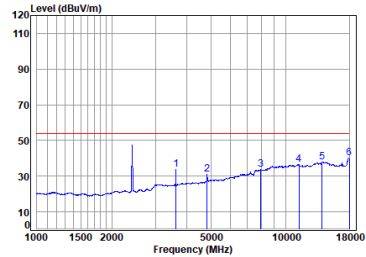
11n_20M_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11n20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1	4831.962	8.93	32.73	55.95	60.43	46.14	74.00 -27.86 Peak 0.00
2	7628.006	11.08	36.68	56.11	55.26	46.91	74.00 -27.09 Peak 0.00
3	9502.925	12.49	38.71	54.13	52.33	49.40	74.00 -24.60 Peak 0.00
4	14450.130	16.62	40.30	54.10	47.69	50.51	74.00 -23.49 Peak 0.00
5	15134.080	16.85	39.37	54.04	47.52	49.70	74.00 -24.30 Peak 0.00
6	pp17896.258	18.87	41.97	54.26	45.58	52.16	74.00 -21.84 Peak 0.00

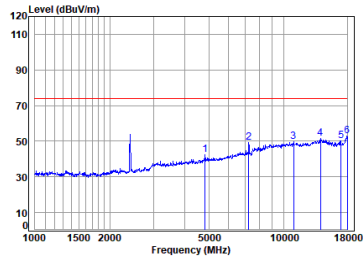
11n_20M_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11n20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1	3619.064	7.78	29.91	54.93	51.13	33.89	54.00 -20.11 Average 0.00
2	4831.962	8.93	32.73	55.95	45.34	31.05	54.00 -22.95 Average 0.00
3	7943.038	11.48	37.30	55.93	40.97	33.82	54.00 -20.18 Average 0.00
4	11302.400	14.39	39.40	53.41	36.16	36.54	54.00 -17.46 Average 0.00
5	13997.930	16.53	40.59	54.10	34.96	37.98	54.00 -16.02 Average 0.00
6	pp18000.000	18.64	42.60	54.30	33.32	40.26	54.00 -13.74 Average 0.00

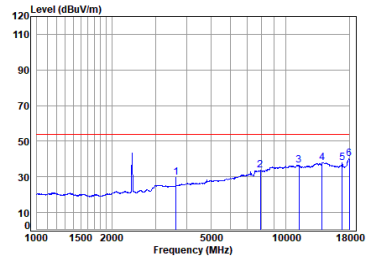
11n_20M_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11n20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1	4831.962	8.93	32.73	55.95	56.67	42.38	74.00 -31.62 Peak 0.00
2	7242.052	11.10	36.92	56.35	57.42	49.09	74.00 -24.91 Peak 0.00
3	10940.700	13.91	39.40	53.50	50.03	49.04	74.00 -24.16 Peak 0.00
4	14038.450	16.47	40.52	54.10	48.45	51.34	74.00 -22.66 Peak 0.00
5	16988.970	18.45	38.78	53.90	46.90	50.23	74.00 -23.77 Peak 0.00
6	pp18000.000	18.64	42.60	54.30	46.15	53.09	74.00 -20.91 Peak 0.00

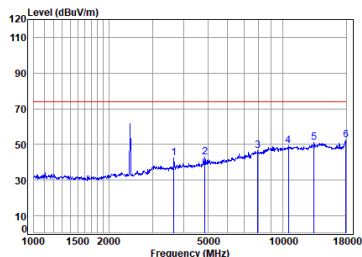
11n_20M_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11n20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1	3619.064	7.78	29.91	54.93	46.82	29.58	54.00 -24.42 Average 0.00
2	7920.911	11.48	37.30	55.94	40.97	33.81	54.00 -20.19 Average 0.00
3	11302.400	14.39	39.40	53.41	36.32	36.70	54.00 -17.30 Average 0.00
4	13997.930	16.53	40.59	54.10	35.01	38.03	54.00 -15.97 Average 0.00
5	16891.040	19.64	38.60	53.88	33.45	37.81	54.00 -16.19 Average 0.00
6	pp18000.000	18.64	42.60	54.30	33.42	40.36	54.00 -13.64 Average 0.00

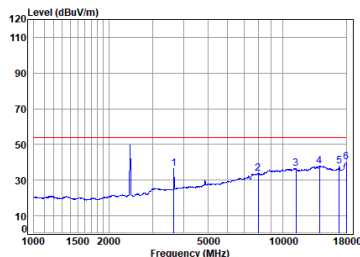
11n_20M_TX_CH_06_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit	Remark
1	3650.582	7.83	30.10	54.94	59.59	42.58	74.00	-31.42	Peak	0.00
2	4874.043	8.97	32.85	55.99	56.86	42.69	74.00	-31.31	Peak	0.00
3	7943.838	11.48	37.30	55.93	53.85	46.70	74.00	-27.30	Peak	0.00
4	10545.010	13.33	39.30	53.54	49.98	49.07	74.00	-24.93	Peak	0.00
5	13365.320	15.79	40.40	53.91	48.84	51.12	74.00	-22.88	Peak	0.00
6	pp17948.050	18.75	42.29	54.28	45.54	52.30	74.00	-21.70	Peak	0.00

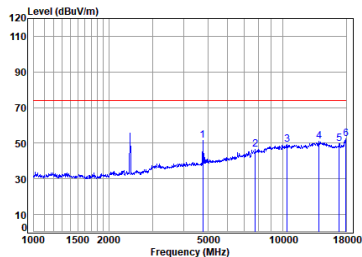
11n_20M_TX_CH_06_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit	Remark
1	3650.582	7.83	30.10	54.94	53.72	36.71	54.00	-17.29	Average	0.00
2	7966.832	11.47	37.27	55.92	40.98	33.80	54.00	-20.20	Average	0.00
3	11302.400	14.39	39.40	53.41	36.20	36.58	54.00	-17.42	Average	0.00
4	14038.450	16.47	40.52	54.10	35.04	37.93	54.00	-16.07	Average	0.00
5	16891.040	19.64	38.60	53.88	33.30	37.66	54.00	-16.34	Average	0.00
6	pp18000.000	18.64	42.60	54.30	33.33	40.27	54.00	-13.73	Average	0.00

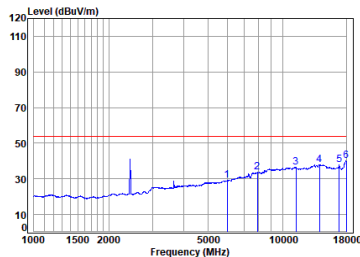
11n_20M_TX_CH_06_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit	Remark
1	4776.419	8.87	32.51	55.89	66.05	51.54	74.00	-22.46	Peak	0.00
2	7762.260	11.22	37.00	56.04	54.36	46.54	74.00	-27.46	Peak	0.00
3	10423.800	13.45	39.22	53.56	50.26	49.37	74.00	-24.63	Peak	0.00
4	13997.930	16.53	40.59	54.10	48.29	51.31	74.00	-22.69	Peak	0.00
5	16891.040	19.64	38.60	53.88	45.28	49.64	74.00	-24.36	Peak	0.00
6	pp17948.050	18.75	42.29	54.28	45.73	52.49	74.00	-21.51	Peak	0.00

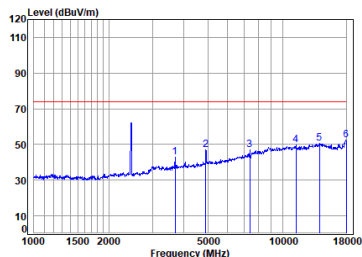
11n_20M_TX_CH_06_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit	Remark
1	5984.305	10.04	34.34	56.59	41.24	29.03	54.00	-24.97	Average	0.00
2	7920.911	11.48	37.30	55.94	40.90	33.74	54.00	-20.26	Average	0.00
3	11302.400	14.39	39.40	53.41	36.32	36.70	54.00	-17.30	Average	0.00
4	14038.450	16.47	40.52	54.10	35.05	37.94	54.00	-16.06	Average	0.00
5	16891.040	19.64	38.60	53.88	33.43	37.79	54.00	-16.21	Average	0.00
6	pp18000.000	18.64	42.60	54.30	33.27	40.21	54.00	-13.79	Average	0.00

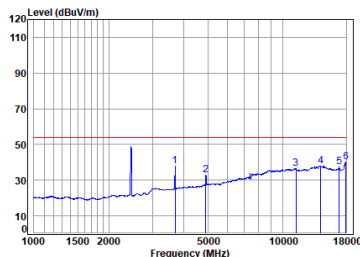
11n_20M_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit	Remark
1	3693.033	7.88	30.10	54.96	59.81	42.83	74.00	-31.17	Peak	0.00
2	4916.490	9.02	32.97	56.02	61.04	47.01	74.00	-26.99	Peak	0.00
3	7390.070	11.19	36.74	56.26	55.20	46.07	74.00	-27.13	Peak	0.00
4	11302.400	14.39	39.40	53.41	49.16	49.56	74.00	-24.44	Peak	0.00
5	14079.080	16.38	40.44	54.10	48.04	50.76	74.00	-23.24	Peak	0.00
6	pp18000.000	18.64	42.60	54.30	45.71	52.65	74.00	-21.35	Peak	0.00

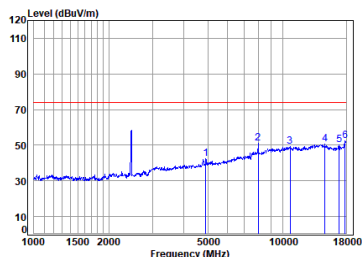
11n_20M_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 03431AT/03432AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit	Remark
1	3693.033	7.88	30.10	54.96	54.94	37.96	54.00	-16.04	Average	0.00
2	4916.490	9.02	32.97	56.02	46.74	32.71	54.00	-21.29	Average	0.00
3	11302.400	14.39	39.40	53.41	36.09	36.47	54.00	-17.53	Average	0.00
4	14242.800	16.83	40.46	54.10	34.78	37.97	54.00	-16.03	Average	0.00
5	16891.040	19.64	38.60	53.88	33.28	37.64	54.00	-16.36	Average	0.00
6	pp17948.050	18.75	42.29	54.28	33.48	40.24	54.00	-13.76	Average	0.00

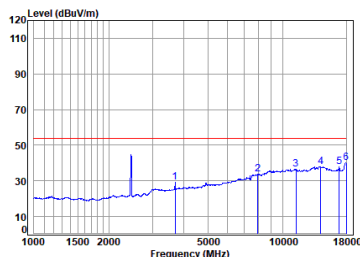
11n_20M_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11n20

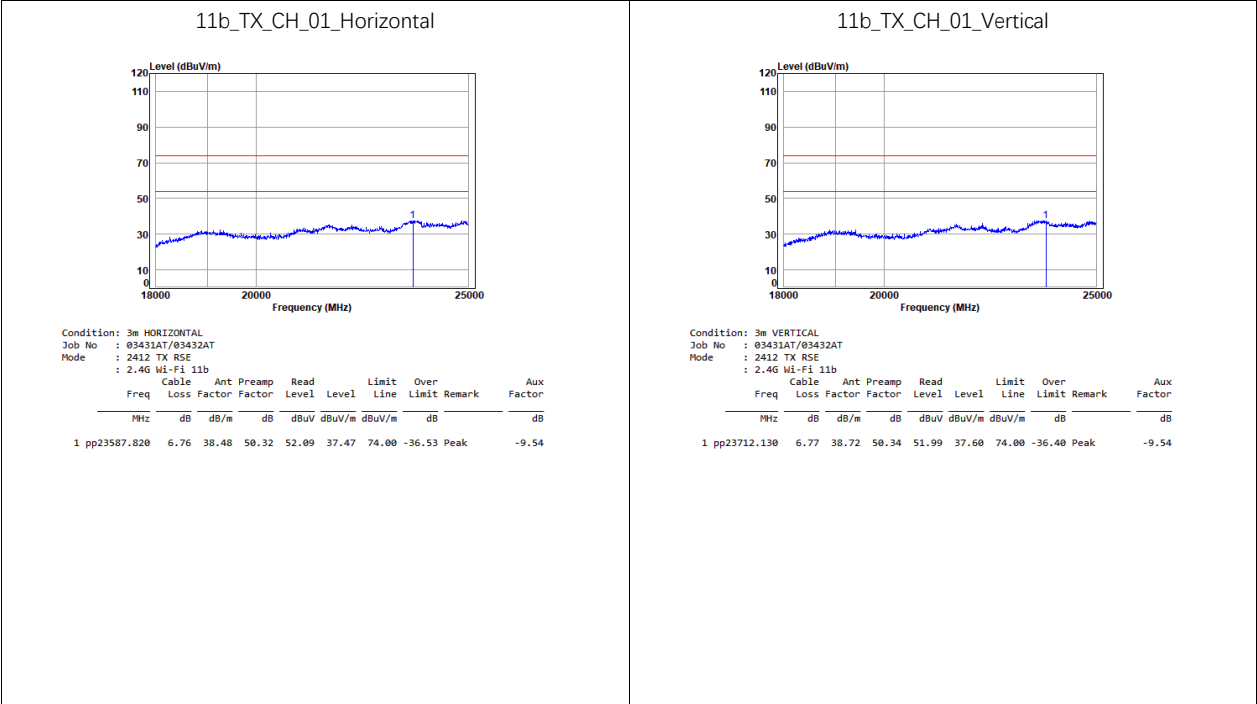
	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit	Remark
1	4916.490	9.02	32.97	56.02	56.49	42.46	74.00	-31.54	Peak	0.00
2	7999.893	11.46	37.22	55.91	58.13	50.90	74.00	-23.10	Peak	0.00
3	10729.400	13.53	39.33	53.53	49.73	49.06	74.00	-24.94	Peak	0.00
4	14788.150	16.75	40.11	54.10	48.00	50.76	74.00	-23.24	Peak	0.00
5	16891.040	19.64	38.60	53.88	45.80	50.16	74.00	-23.84	Peak	0.00
6	pp17844.590	19.02	41.56	54.24	46.05	52.39	74.00	-21.61	Peak	0.00

11n_20M_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 03431AT/03432AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit	Remark
1	3693.033	7.88	30.10	54.96	46.34	29.36	54.00	-24.64	Average	0.00
2	7943.038	11.48	37.30	55.93	41.01	33.86	54.00	-20.14	Average	0.00
3	11302.400	14.39	39.40	53.41	36.23	36.61	54.00	-17.39	Average	0.00
4	14242.800	16.83	40.46	54.10	34.91	38.10	54.00	-15.90	Average	0.00
5	16891.040	19.64	38.60	53.88	33.32	37.68	54.00	-16.32	Average	0.00
6	pp18000.000	18.64	42.60	54.30	33.36	40.30	54.00	-13.70	Average	0.00



Remark: Emissions exceeding the limits are considered fundamental emissions and are therefore exempt from testing.



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8 Test Setup Photo

Refer to Setup Photo for SZCR2607003431AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2607003431AT

10 Appendix

- End of the Report -



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