

# TEST REPORT

<b>Application No.:</b>	SZCR2504001476AT
<b>Applicant:</b>	Harman Connected Services Inc.,
<b>Address of Applicant:</b>	445 Indio Way, Sunnyvale, California 94085, United States
<b>Manufacturer:</b>	Harman Connected Services Inc.,
<b>Address of Manufacturer:</b>	445 Indio Way, Sunnyvale, California 94085, United States
<b>Factory:</b>	Invendis Technologies India Pvt Ltd
<b>Address of Factory:</b>	#230, KAS Officers Colony, BTM Stage 2, Bengaluru, Karnataka 560068, India
<b>Equipment Under Test (EUT):</b>	
<b>EUT Name:</b>	Harman Edge Compute Platform
<b>Model No.:</b>	HAR-DTS-EC-IA018-2024
<b>Trade Mark:</b>	HARMAN(© HARMAN INTERNATIONAL INDUSTRIES, INCORPORATED)
<b>FCC ID:</b>	2BO4C-HARECP018
<b>Standard(s) :</b>	47 CFR Part 15, Subpart C 15.247
<b>Date of Receipt:</b>	2025-04-14
<b>Date of Test:</b>	2025-05-13 to 2025-06-10
<b>Date of Issue:</b>	2025-06-10`
<b>Test Result:</b>	<b>Pass*</b>

\* In the configuration tested, the EUT complied with the standards specified above.

*Keny Xu*

Keny Xu  
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch EMC Laboratory

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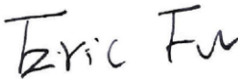
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250400147605

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-06-10		Original

Authorized for issue by:				
				
		Charlie Dai/Project Engineer		
				
		Eric Fu/Reviewer		



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## 2 Test Summary

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 (2013) Section 6.10.5	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

### Remark:

Model No.: HAR-DTS-EC-IA018-2024

This test report (Ref. No.: SZCR250400147605) is only valid with the modular test report (Ref. FCC ID: TKZAW7915-NPD)

According to the declaration from the applicant, the WIFI module used in this report and the one in original report were identical (FCC ID: TKZAW7915-NPD, model No.: AW7915-AED). Only replaced the new WIFI antenna.

Therefore in this report Radiated Emissions which fall in the restricted bands, Radiated Spurious Emissions Above 1GHz were fully retested on model and shown the data in this report, other tests please refer to modular test report.



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## 4 General Information

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

Power supply:	Power by switching adapter Model No.: GST90A19 Input: AC 100-240V, 50/60Hz, 1.3A Output: DC 19.0V, 4.74A, 90W
Cable(s):	AC Cable 3pin 172cm unshielded
Operation Frequency:	802.11b/g/n(HT20)/VHT20/ax(HEW20): 2412MHz to 2462MHz, 802.11n(HT40)/VHT40/ax(HEW40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK), 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK), 802.11VHT20/ VHT40: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK), 802.11HEW20/ HEW40: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK),
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n(HT20)/VHT20/ax(HEW20): 11, 802.11n(HT40)/VHT40/ax(HEW40):7
Antenna Type:	RP-SMA Dipole Antenna
Antenna Gain:	4.71dBi

Remark 1: 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.

Remark 2: Please only retain the worst-case data of 802.11b, 802.11n, and 802.11ax in this report.

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.

### 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 Above 1GHz	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)

Remark:

The  $U_{\text{lab}}$  (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.

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### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

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

No tests were sub-contracted.

### 4.5 Test Facility

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

#### • A2LA (Certificate No. 3816.01)

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

#### • VCCI (Member No. 1937)

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

#### • FCC –Designation Number: CN1336

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

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

#### • Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

### 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

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

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-01-07	2026-01-06
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-01-07	2026-01-06
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025-01-08	2026-01-07
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23



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General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02



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## 6 Radio Spectrum Matter Test Results

### 6.1 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 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

Humidity: 51.9 % RH

Atmospheric Pressure: 1020 mbar

#### 6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11 ac(VHT40).data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). data rate @ final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



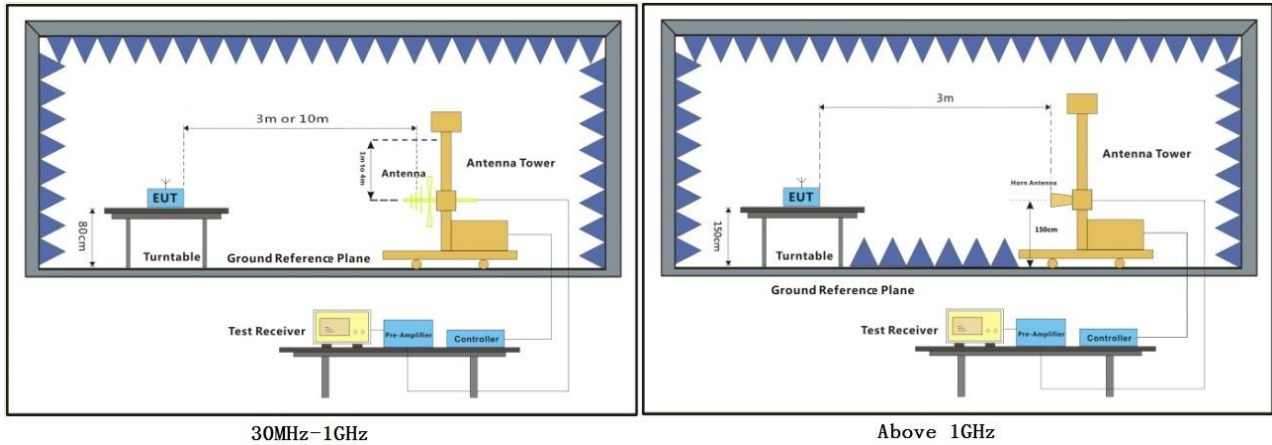
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### 6.1.3 Test Setup Diagram



## 6.1.4 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

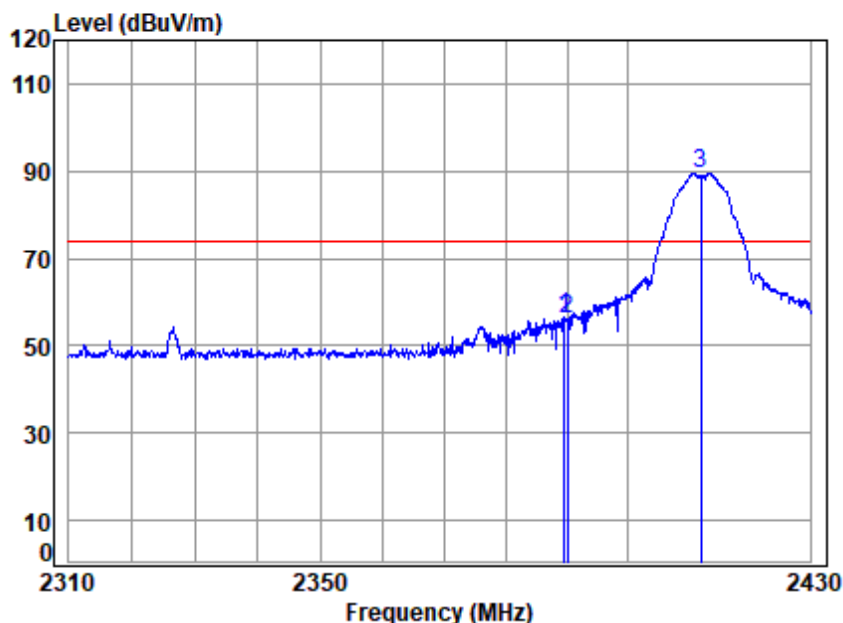
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level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



Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 01476AT

Mode : 2412 Band edge

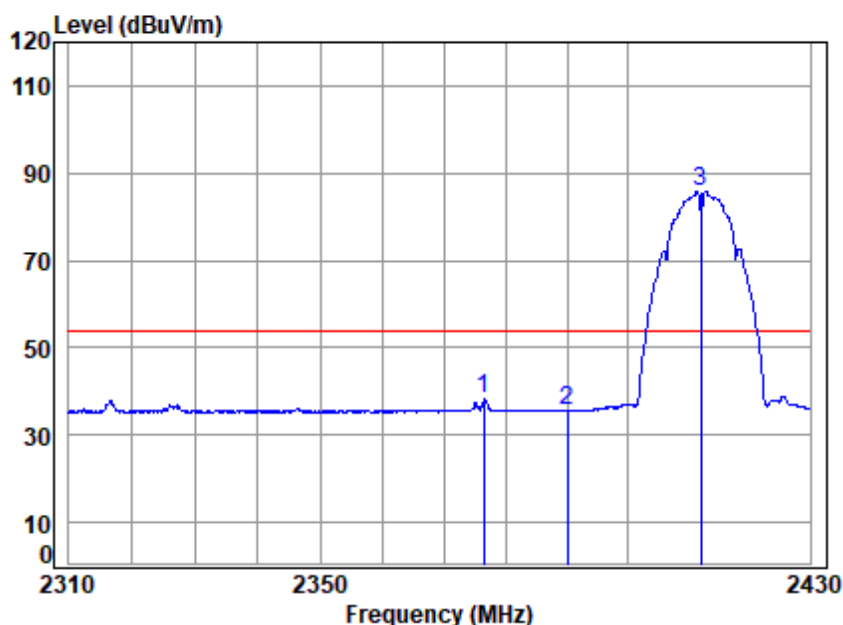
: 2.4G Wi-Fi 11b

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.605	6.82	27.46	31.54	53.87	56.61	74.00	-17.39	peak
2	2390.000	6.82	27.46	31.54	53.55	56.29	74.00	-17.71	peak
3 pp	2412.000	6.91	27.52	31.54	86.57	89.46	74.00	15.46	peak





Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 01476AT

Mode : 2412 Band edge

: 2.4G Wi-Fi 11b

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2376.451	6.82	27.41	31.54	35.62	38.31	54.00	-15.69	Average
2	2390.000	6.82	27.46	31.54	32.87	35.61	54.00	-18.39	Average
3 pp	2412.000	6.91	27.52	31.54	82.89	85.78	54.00	31.78	Average



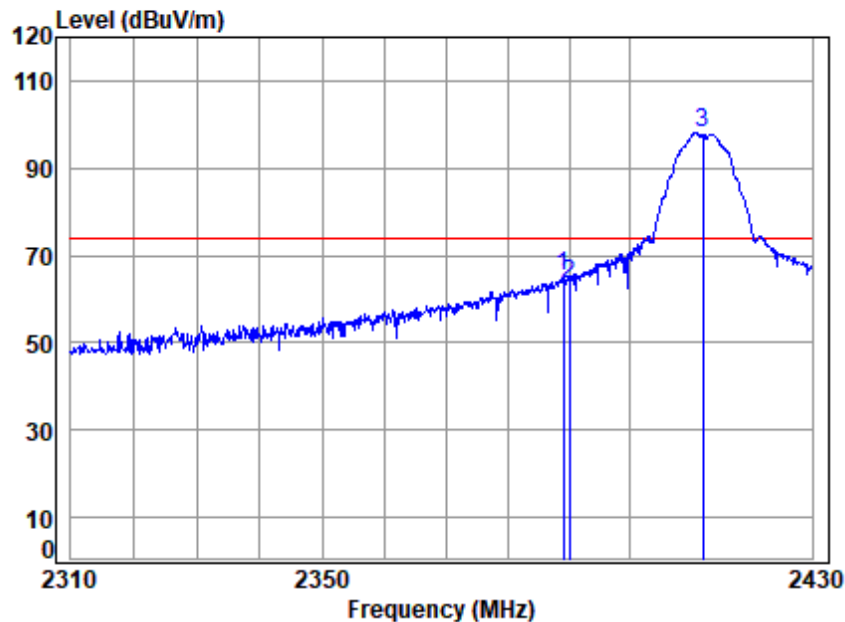
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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

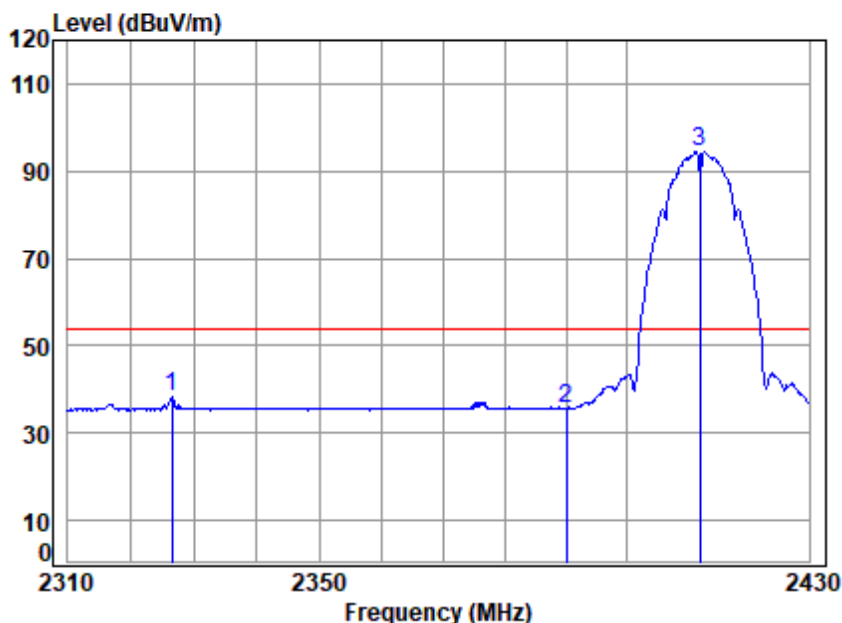
Job No : 01476AT

Mode : 2412 Band edge  
: 2.4G Wi-Fi 11b

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.121	6.82	27.46	31.54	62.43	65.17	74.00 -8.83 Peak
2	2390.000	6.82	27.46	31.54	60.70	63.44	74.00 -10.56 Peak
3	pp 2412.000	6.91	27.52	31.54	95.05	97.94	74.00 23.94 Peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

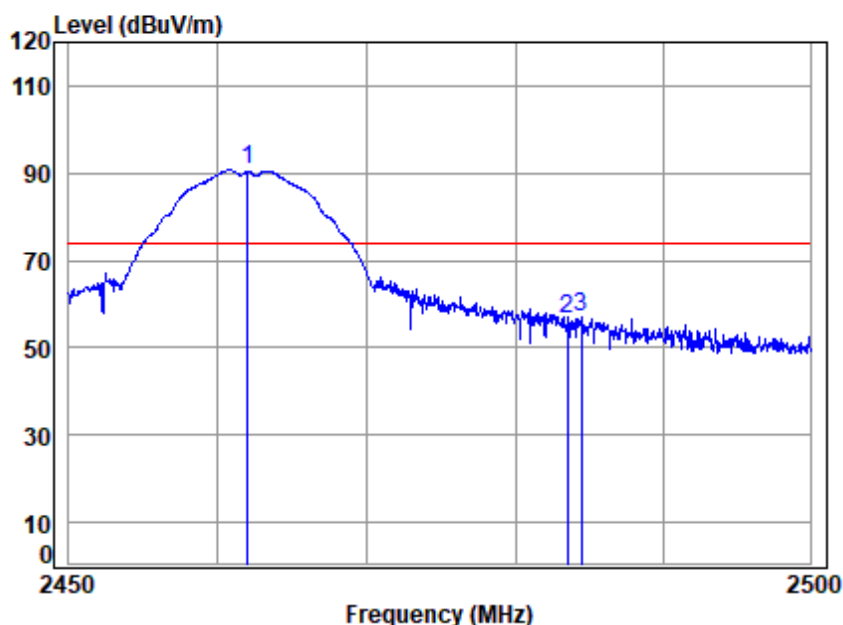
Job No : 01476AT

Mode : 2412 Band edge  
: 2.4G Wi-Fi 11b

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2326.554	6.79	27.25	31.53	35.84	38.35	54.00	-15.65	Average
2	2390.000	6.82	27.46	31.54	33.00	35.74	54.00	-18.26	Average
3 pp	2412.000	6.91	27.52	31.54	91.57	94.46	54.00	40.46	Average



Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 01476AT

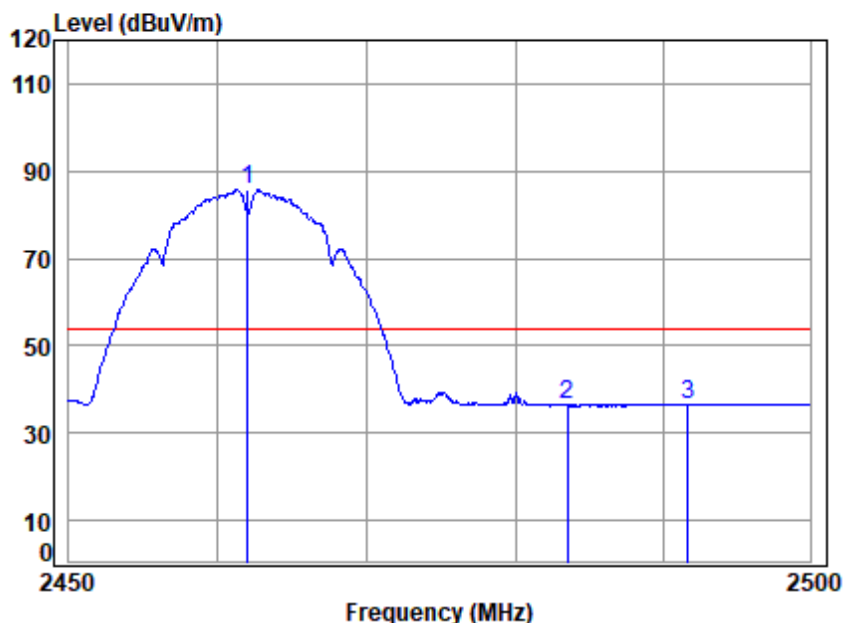
Mode : 2462 Band edge  
: 2.4G Wi-Fi 11b

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2462.000	7.25	27.67	31.55	87.28	90.65	74.00	16.65 peak
2	2483.500	7.40	27.80	31.55	53.13	56.78	74.00	-17.22 peak
3	2484.492	7.40	27.81	31.55	53.39	57.05	74.00	-16.95 peak





Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 01476AT

Mode : 2462 Band edge  
: 2.4G Wi-Fi 11b

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	82.30	85.67	54.00	31.67	Average
2	2483.500	7.40	27.80	31.55	32.68	36.33	54.00	-17.67	Average
3	2491.680	7.45	27.85	31.55	32.96	36.71	54.00	-17.29	Average



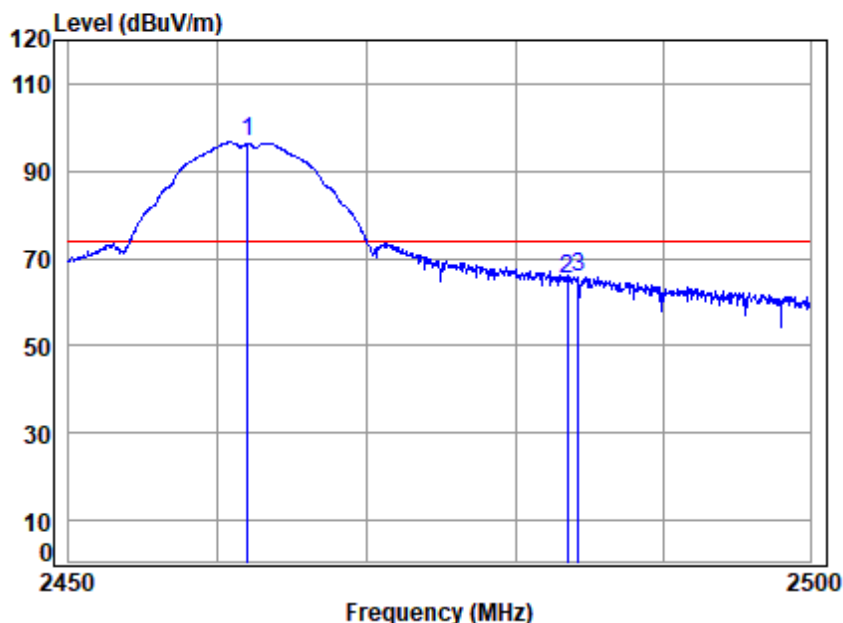
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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01476AT

Mode : 2462 Band edge

: 2.4G Wi-Fi 11b

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2462.000	7.25	27.67	31.55	93.17	96.54	74.00	22.54 Peak
2	2483.500	7.40	27.80	31.55	61.48	65.13	74.00	-8.87 Peak
3	2484.241	7.40	27.81	31.55	62.11	65.77	74.00	-8.23 Peak



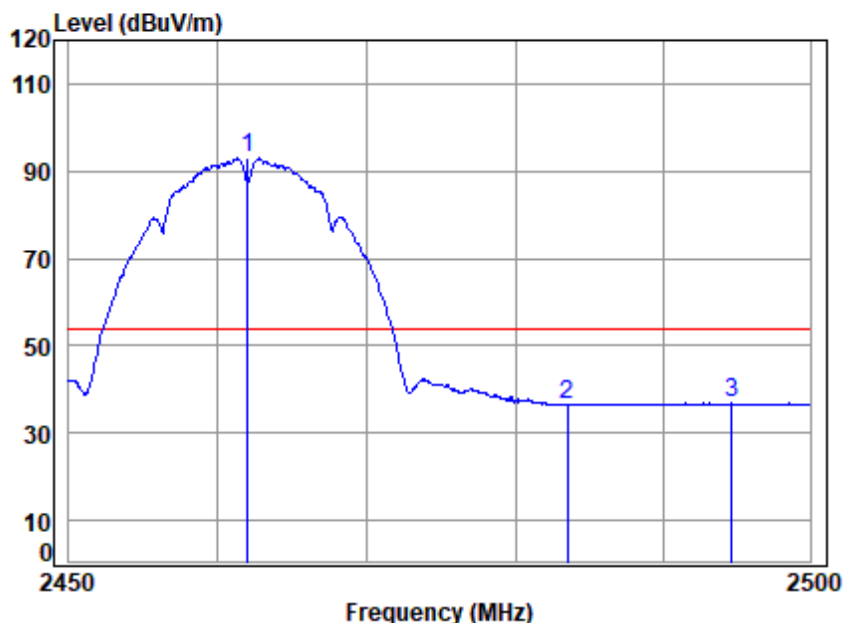
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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

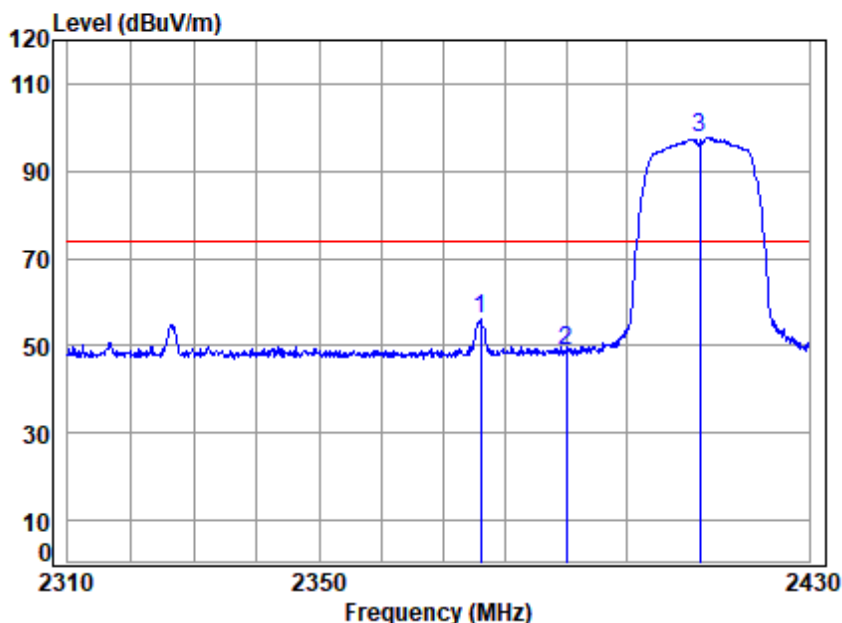
Job No : 01476AT

Mode : 2462 Band edge  
: 2.4G Wi-Fi 11b

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	89.52	92.89	54.00	38.89	Average
2	2483.500	7.40	27.80	31.55	32.73	36.38	54.00	-17.62	Average
3	2494.652	7.47	27.87	31.55	33.00	36.79	54.00	-17.21	Average



Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 01476AT

Mode : 2412 Band edge

: 2.4G Wi-Fi 11n20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2376.090	6.82	27.40	31.54	53.51	56.19	74.00	-17.81	peak
2	2390.000	6.82	27.46	31.54	46.00	48.74	74.00	-25.26	peak
3 pp	2412.000	6.91	27.52	31.54	94.77	97.66	74.00	23.66	peak

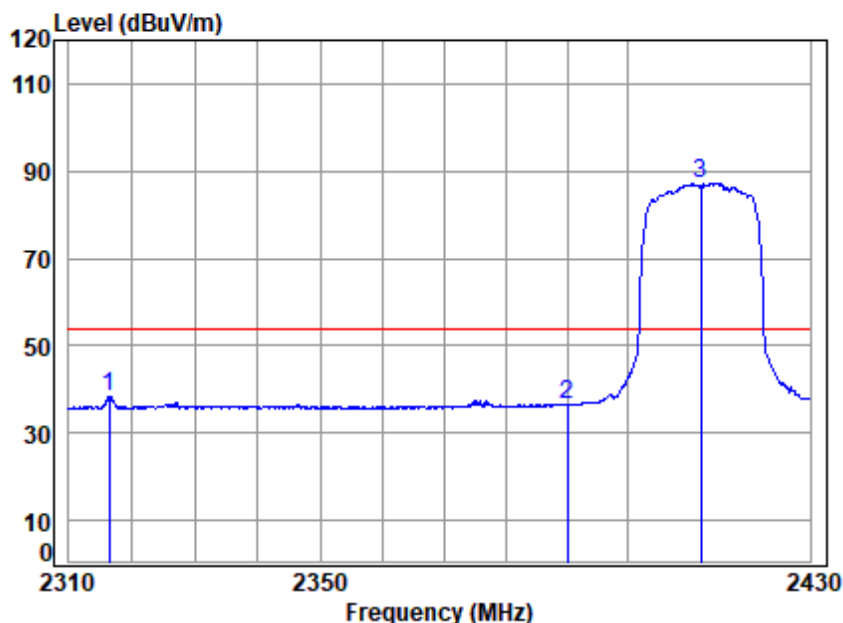


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 01476AT

Mode : 2412 Band edge

: 2.4G Wi-Fi 11n20

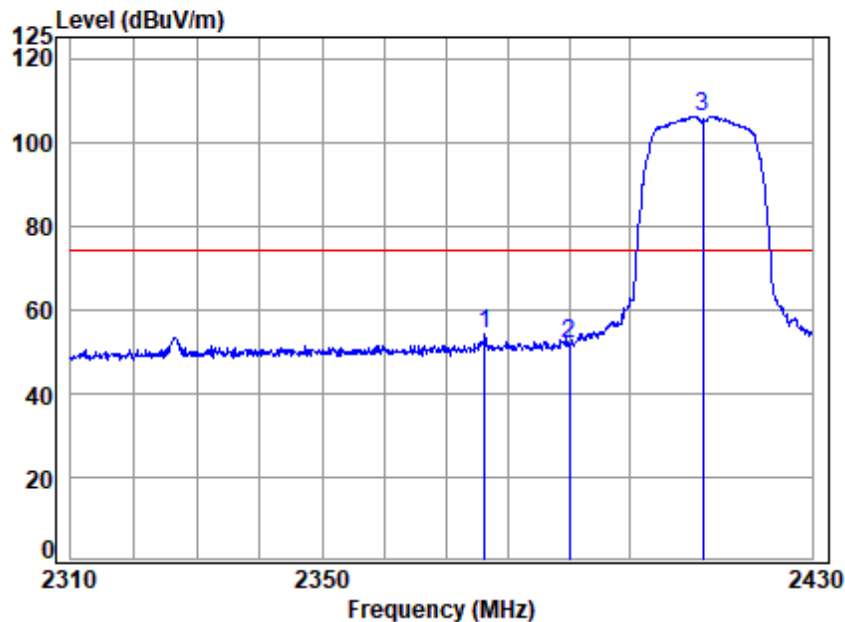
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2316.326	6.79	27.23	31.53	35.99	38.48	54.00	-15.52	Average
2 2390.000	6.82	27.46	31.54	33.74	36.48	54.00	-17.52	Average
3 pp 2412.000	6.91	27.52	31.54	84.46	87.35	54.00	33.35	Average



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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01476AT

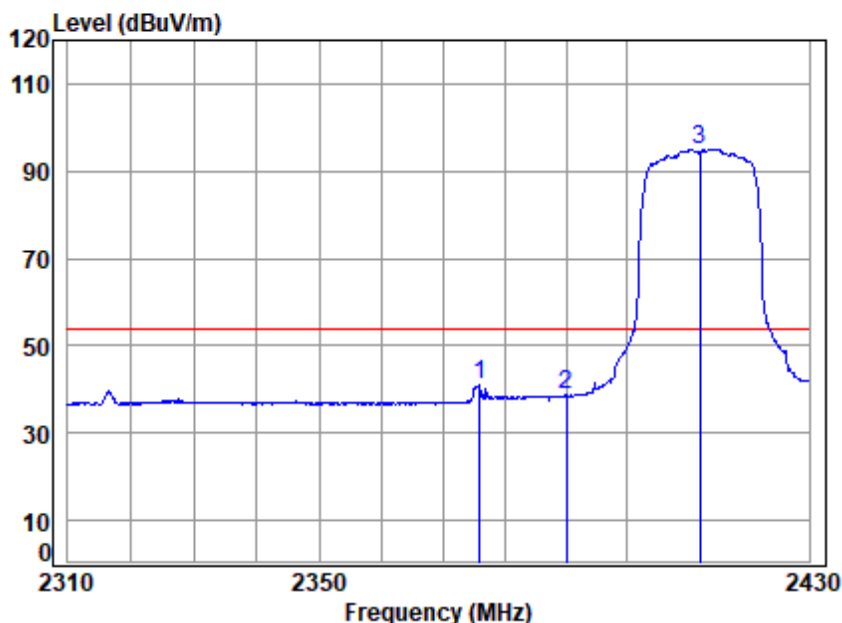
Mode : 2412 Band edge

: 2.4G Wi-Fi 11n20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2376.330	6.82	27.41	31.54	51.35	54.04	74.00	-19.96 Peak
2	2390.000	6.82	27.46	31.54	48.86	51.60	74.00	-22.40 Peak
3	pp 2412.000	6.91	27.52	31.54	103.16	106.05	74.00	32.05 Peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01476AT

Mode : 2412 Band edge

: 2.4G Wi-Fi 11n20

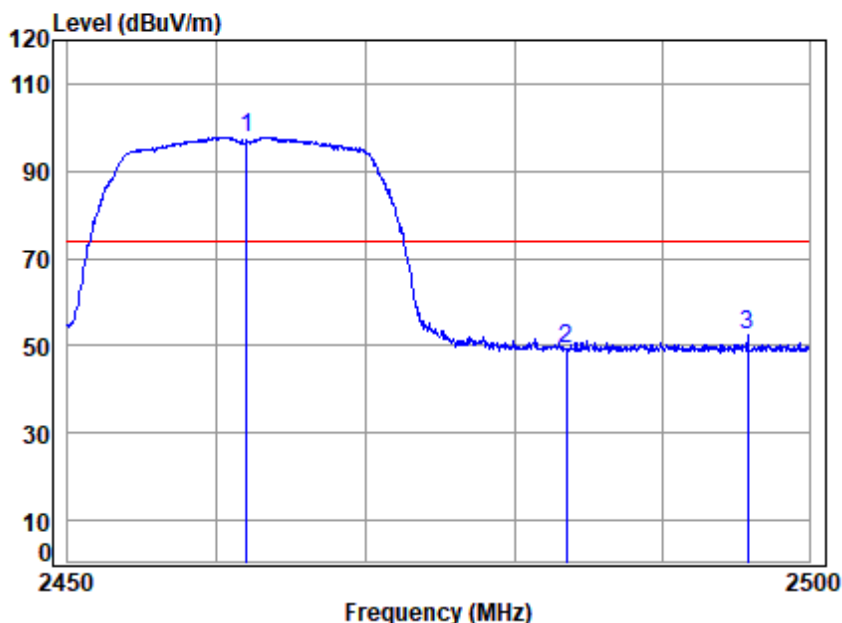
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2375.969	6.82	27.40	31.54	38.23	40.91	54.00	-13.09 Average
2	2390.000	6.82	27.46	31.54	35.90	38.64	54.00	-15.36 Average
3	pp 2412.000	6.91	27.52	31.54	92.20	95.09	54.00	41.09 Average



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 01476AT

Mode : 2462 Band edge

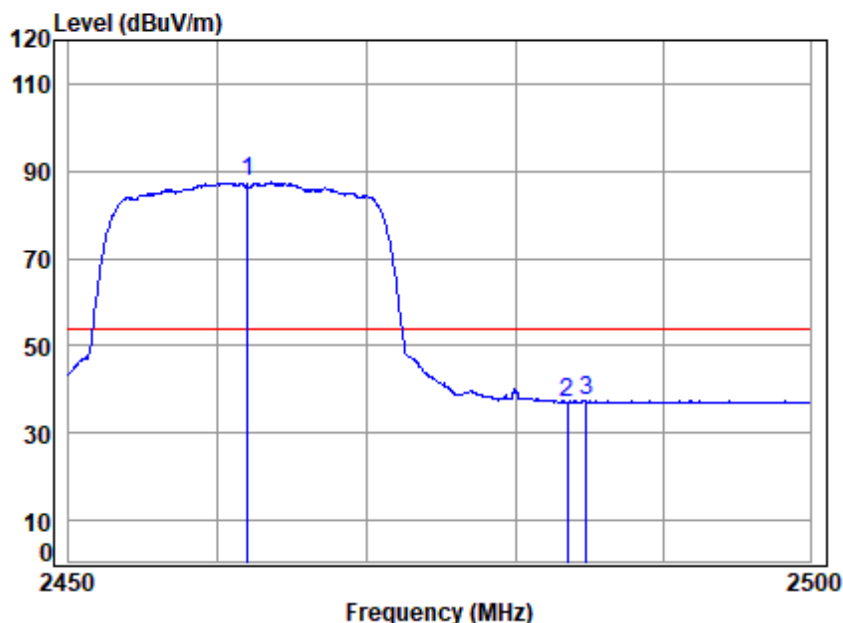
: 2.4G Wi-Fi 11n20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	94.46	97.83	74.00	23.83	peak
2	2483.500	7.40	27.80	31.55	45.43	49.08	74.00	-24.92	peak
3	2495.812	7.48	27.87	31.55	48.65	52.45	74.00	-21.55	peak





Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 01476AT

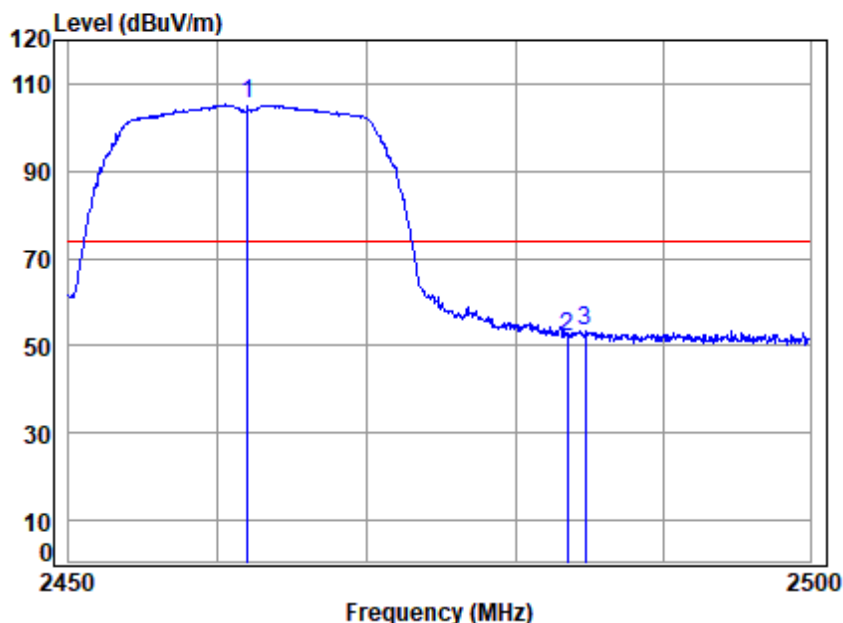
Mode : 2462 Band edge

: 2.4G Wi-Fi 11n20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	84.05	87.42	54.00	33.42	Average
2	2483.500	7.40	27.80	31.55	33.41	37.06	54.00	-16.94	Average
3	2484.793	7.41	27.81	31.55	33.85	37.52	54.00	-16.48	Average



Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01476AT

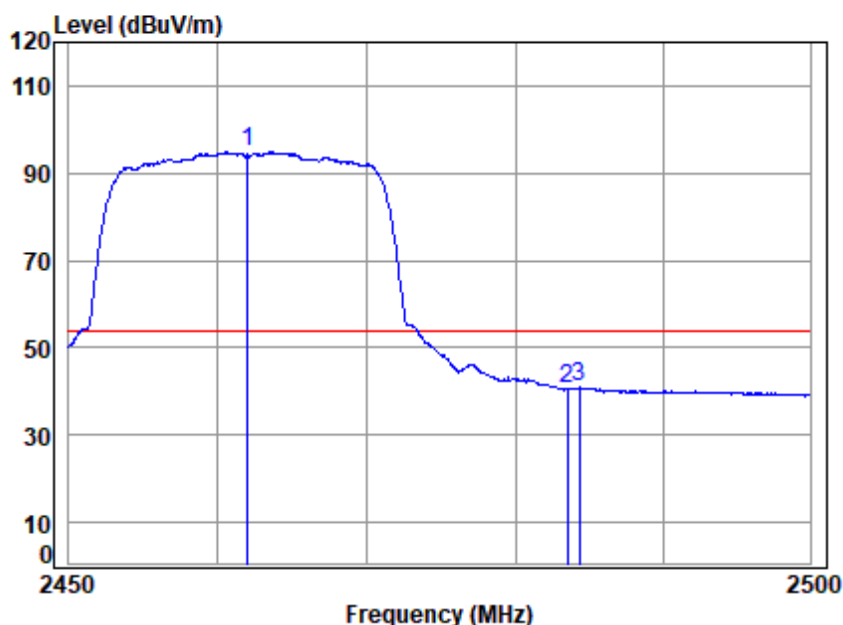
Mode : 2462 Band edge

: 2.4G Wi-Fi 11n20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	101.84	105.21	74.00	31.21	Peak
2	2483.500	7.40	27.80	31.55	48.46	52.11	74.00	-21.89	Peak
3	2484.743	7.41	27.81	31.55	49.90	53.57	74.00	-20.43	Peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01476AT

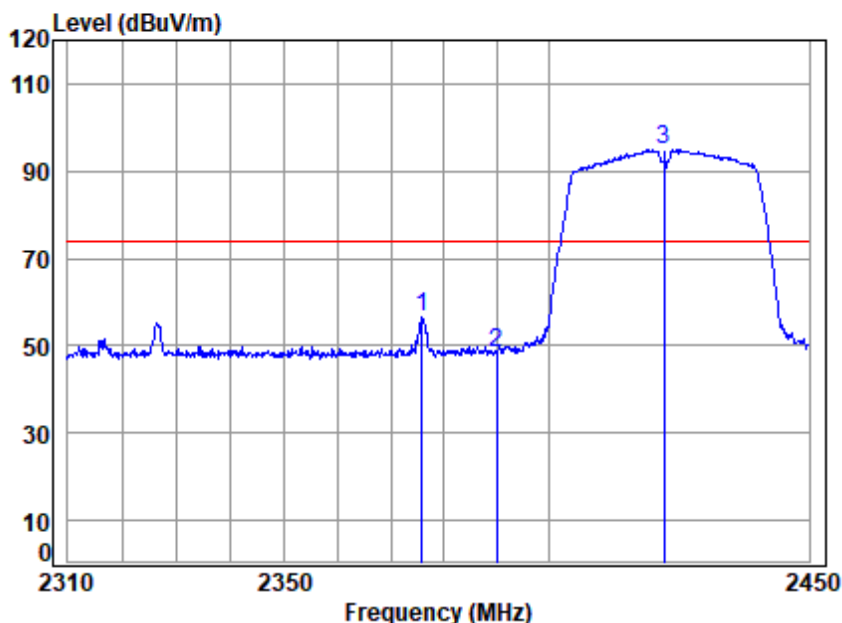
Mode : 2462 Band edge

: 2.4G Wi-Fi 11n20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	91.43	94.80	54.00	40.80	Average
2	2483.500	7.40	27.80	31.55	36.88	40.53	54.00	-13.47	Average
3	2484.342	7.40	27.81	31.55	37.35	41.01	54.00	-12.99	Average



Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 01476AT

Mode : 2422 Band edge

: 2.4G Wi-Fi 11n40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2375.893	6.82	27.40	31.54	54.11	56.79	74.00	-17.21	peak
2	2390.000	6.82	27.46	31.54	45.43	48.17	74.00	-25.83	peak
3 pp	2422.000	6.98	27.54	31.54	92.02	95.00	74.00	21.00	peak



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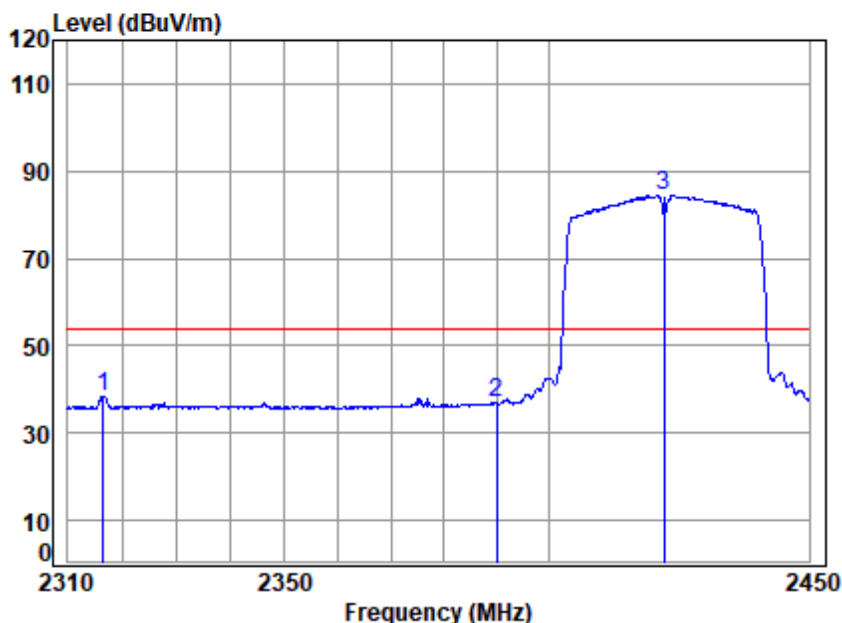
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 01476AT

Mode : 2422 Band edge

: 2.4G Wi-Fi 11n40

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2316.533	6.79	27.23	31.53	35.78	38.27	54.00	-15.73	Average
2 2390.000	6.82	27.46	31.54	34.03	36.77	54.00	-17.23	Average
3 pp 2422.000	6.98	27.54	31.54	81.47	84.45	54.00	30.45	Average



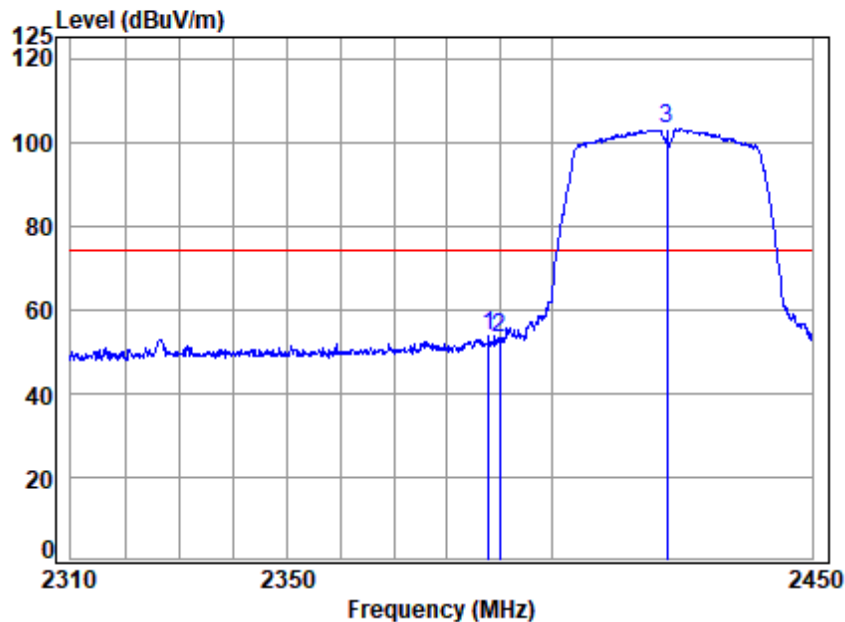
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01476AT

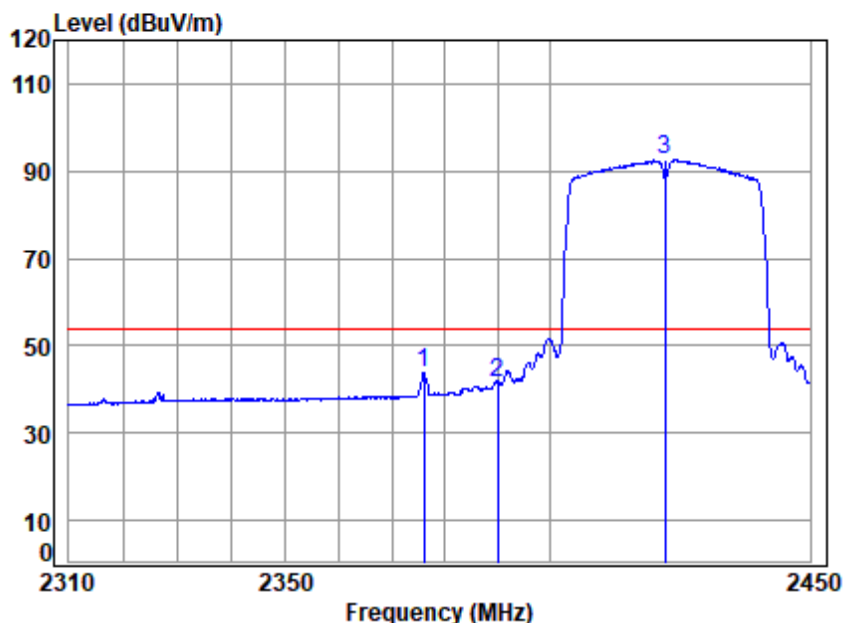
Mode : 2422 Band edge

: 2.4G Wi-Fi 11n40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.946	6.82	27.45	31.54	50.97	53.70	74.00	-20.30 Peak
2	2390.000	6.82	27.46	31.54	50.31	53.05	74.00	-20.95 Peak
3 pp	2422.000	6.98	27.54	31.54	100.09	103.07	74.00	29.07 Peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01476AT

Mode : 2422 Band edge

: 2.4G Wi-Fi 11n40

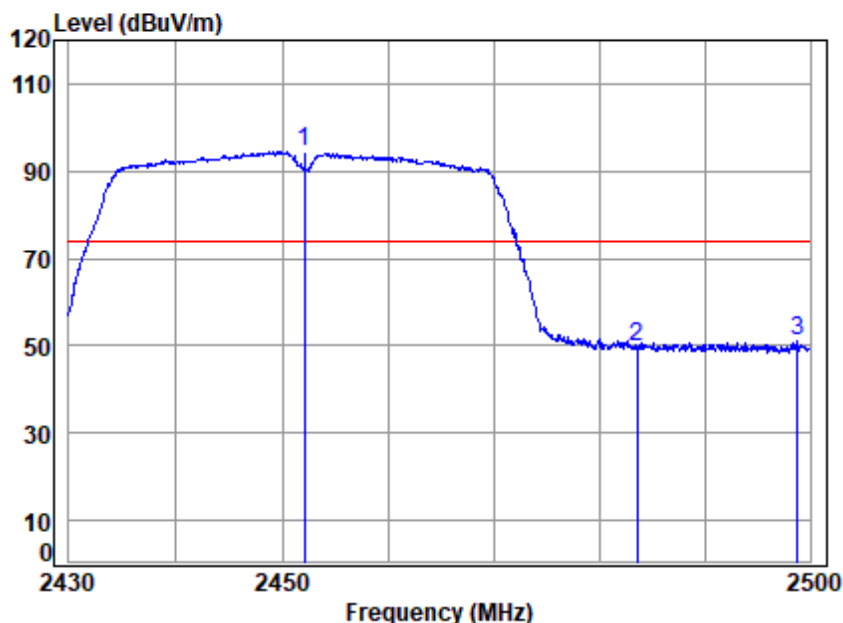
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2376.033	6.82	27.40	31.54	41.20	43.88	54.00	-10.12 Average
2	2390.000	6.82	27.46	31.54	38.66	41.40	54.00	-12.60 Average
3 pp	2422.000	6.98	27.54	31.54	89.61	92.59	54.00	38.59 Average



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 01476AT

Mode : 2452 Band edge  
: 2.4G Wi-Fi 11n40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	7.18	27.61	31.55	91.28	94.52	74.00	20.52	peak
2	2483.500	7.40	27.80	31.55	46.14	49.79	74.00	-24.21	peak
3	2498.793	7.50	27.89	31.55	47.26	51.10	74.00	-22.90	peak



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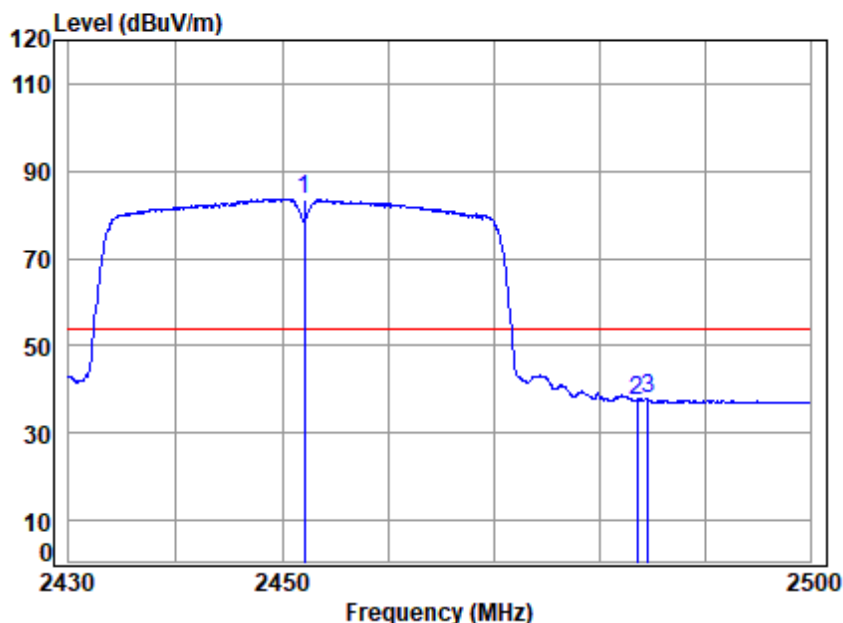
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 01476AT

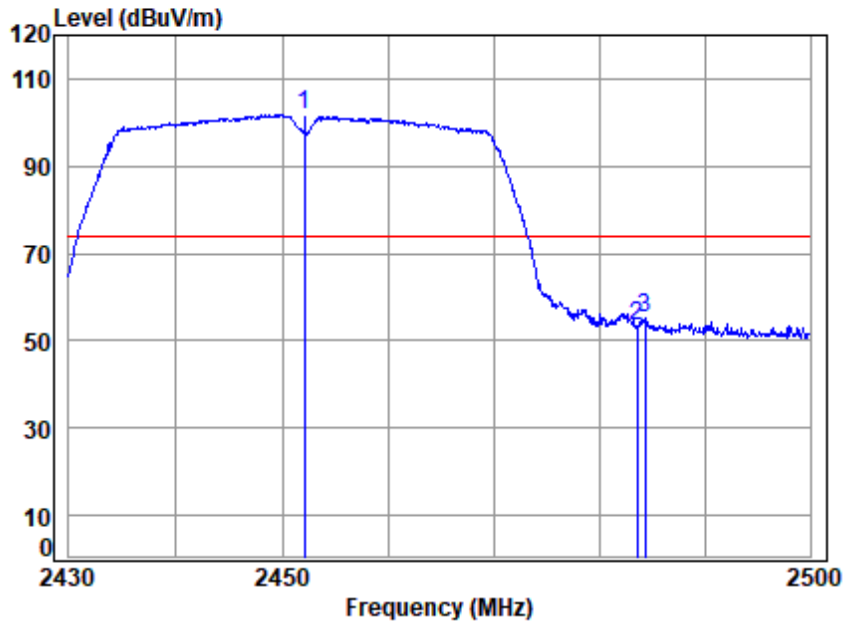
Mode : 2452 Band edge

: 2.4G Wi-Fi 11n40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	7.18	27.61	31.55	80.47	83.71	54.00	29.71	Average
2	2483.500	7.40	27.80	31.55	33.83	37.48	54.00	-16.52	Average
3	2484.500	7.40	27.81	31.55	34.26	37.92	54.00	-16.08	Average



Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01476AT

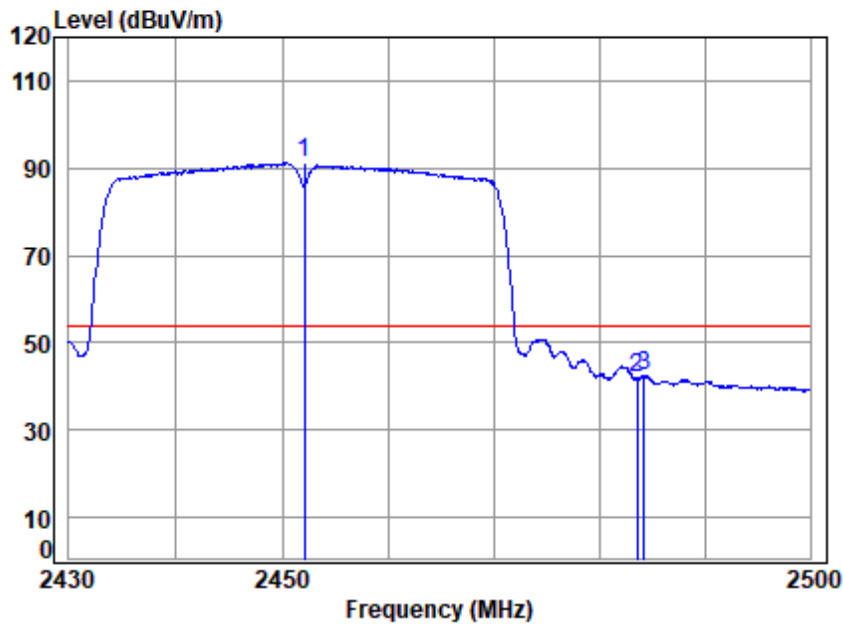
Mode : 2452 Band edge

: 2.4G Wi-Fi 11n40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	7.18	27.61	31.55	98.55	101.79	74.00	27.79	Peak
2	2483.500	7.40	27.80	31.55	49.59	53.24	74.00	-20.76	Peak
3	2484.217	7.40	27.81	31.55	51.36	55.02	74.00	-18.98	Peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01476AT

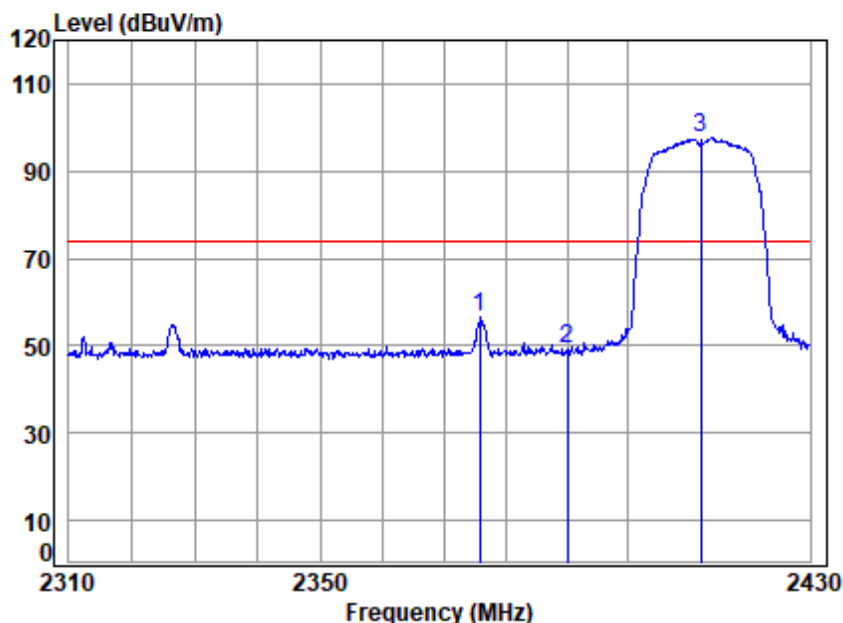
Mode : 2452 Band edge

: 2.4G Wi-Fi 11n40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	7.18	27.61	31.55	88.05	91.29	54.00	37.29	Average
2	2483.500	7.40	27.80	31.55	38.14	41.79	54.00	-12.21	Average
3	2484.147	7.40	27.80	31.55	38.91	42.56	54.00	-11.44	Average



Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 01476AT

Mode : 2412 Band edge

: 2.4G Wi-Fi 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2375.849	6.82	27.40	31.54	53.77	56.45	74.00	-17.55	peak
2	2390.000	6.82	27.46	31.54	46.61	49.35	74.00	-24.65	peak
3 pp	2412.000	6.91	27.52	31.54	94.83	97.72	74.00	23.72	peak

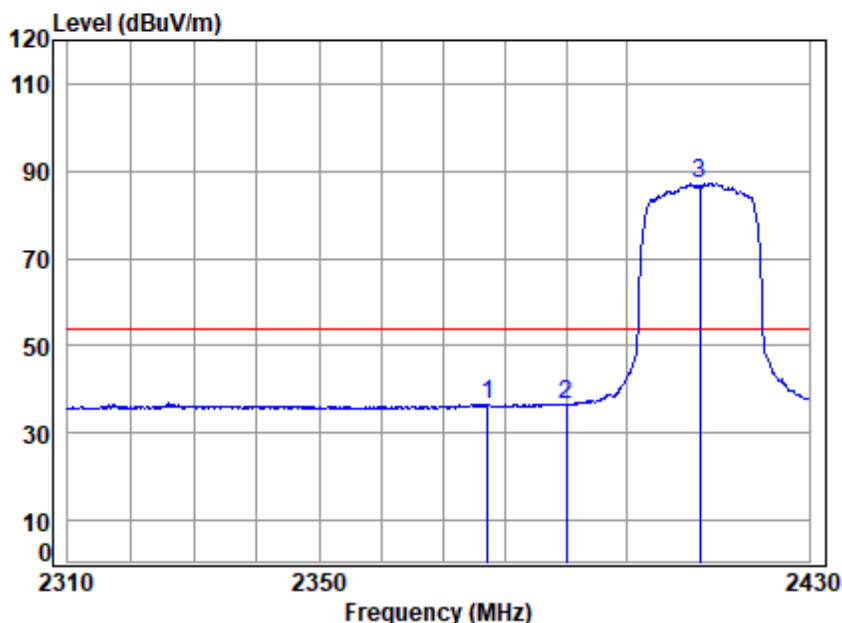


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 01476AT

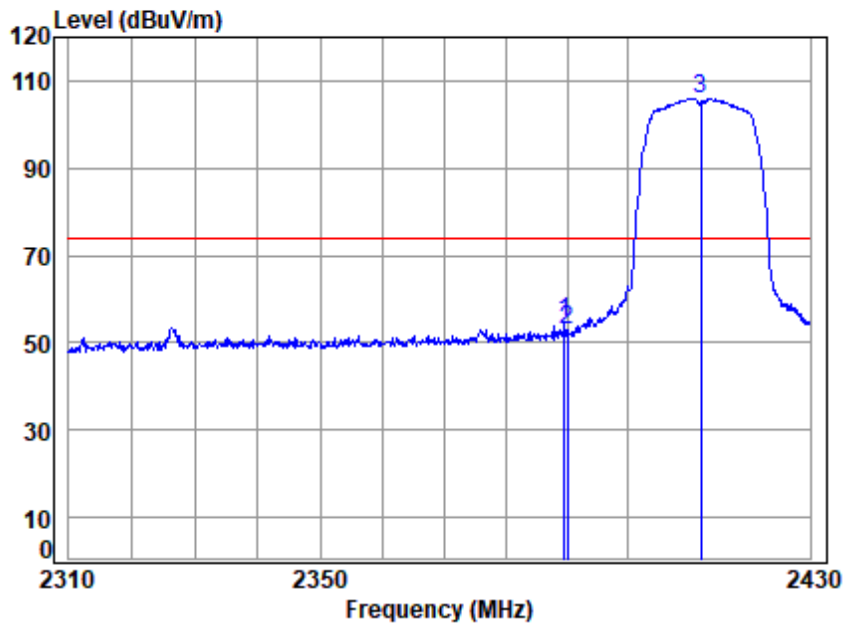
Mode : 2412 Band edge

: 2.4G Wi-Fi 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2377.173	6.82	27.41	31.54	34.03	36.72	54.00	-17.28	Average
2	2390.000	6.82	27.46	31.54	33.75	36.49	54.00	-17.51	Average
3 pp	2412.000	6.91	27.52	31.54	84.39	87.28	54.00	33.28	Average



Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01476AT

Mode : 2412 Band edge

: 2.4G Wi-Fi 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.605	6.82	27.46	31.54	52.17	54.91	74.00	-19.09	Peak
2	2390.000	6.82	27.46	31.54	50.10	52.84	74.00	-21.16	Peak
3 pp	2412.000	6.91	27.52	31.54	103.10	105.99	74.00	31.99	Peak



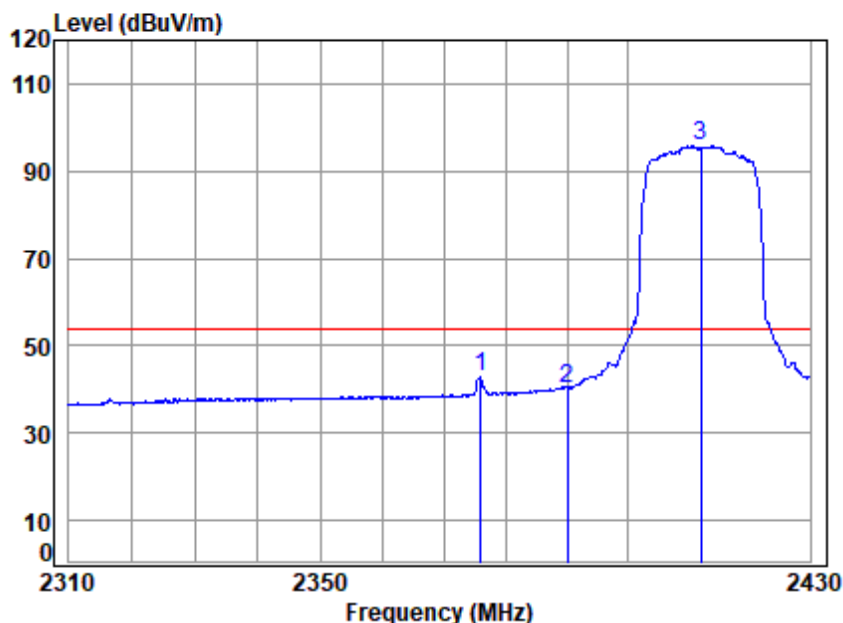
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01476AT

Mode : 2412 Band edge

: 2.4G Wi-Fi 11ax20

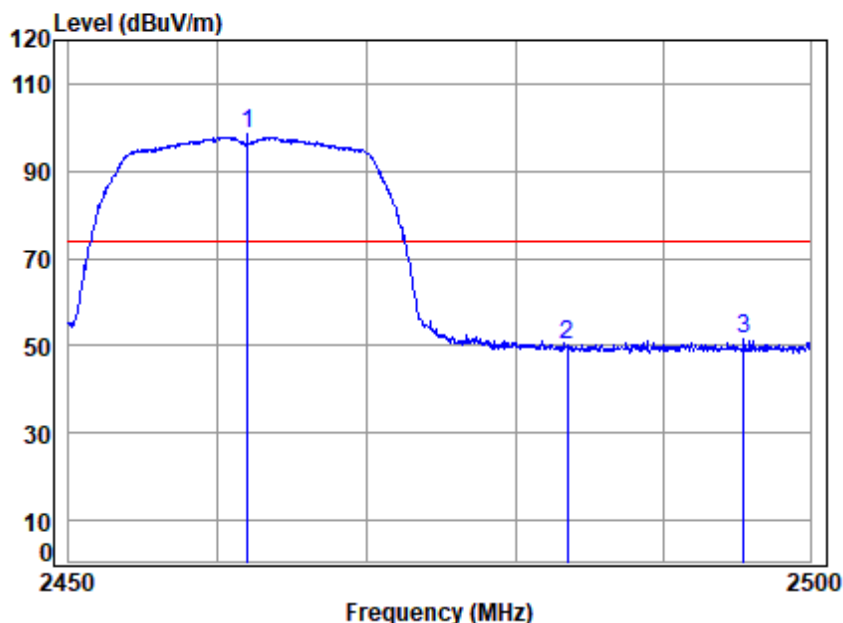
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2375.969	6.82	27.40	31.54	40.07	42.75	54.00	-11.25 Average
2	2390.000	6.82	27.46	31.54	37.64	40.38	54.00	-13.62 Average
3	pp 2412.000	6.91	27.52	31.54	92.89	95.78	54.00	41.78 Average



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 01476AT

Mode : 2462 Band edge

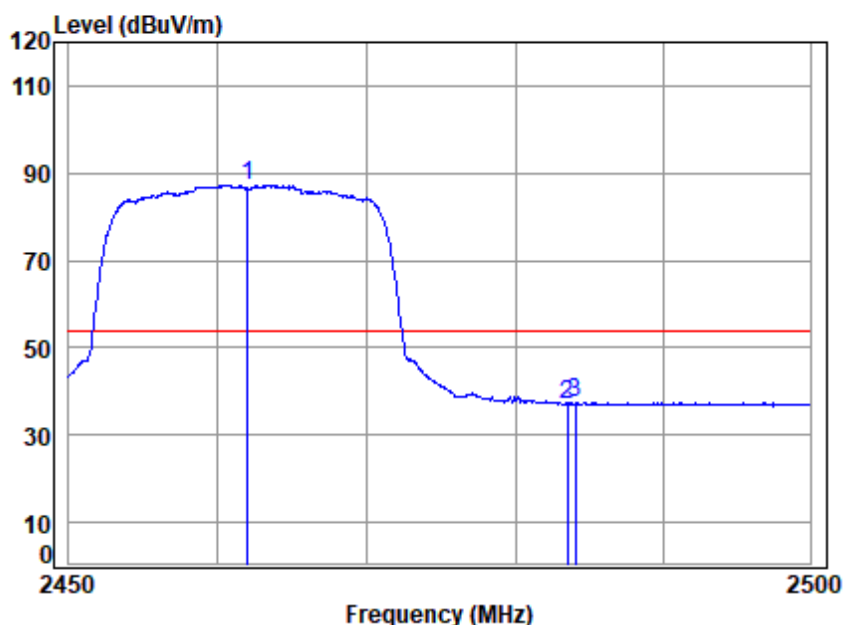
: 2.4G Wi-Fi 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	95.21	98.58	74.00	24.58	peak
2	2483.500	7.40	27.80	31.55	46.59	50.24	74.00	-23.76	peak
3	2495.509	7.48	27.87	31.55	47.68	51.48	74.00	-22.52	peak





Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 01476AT

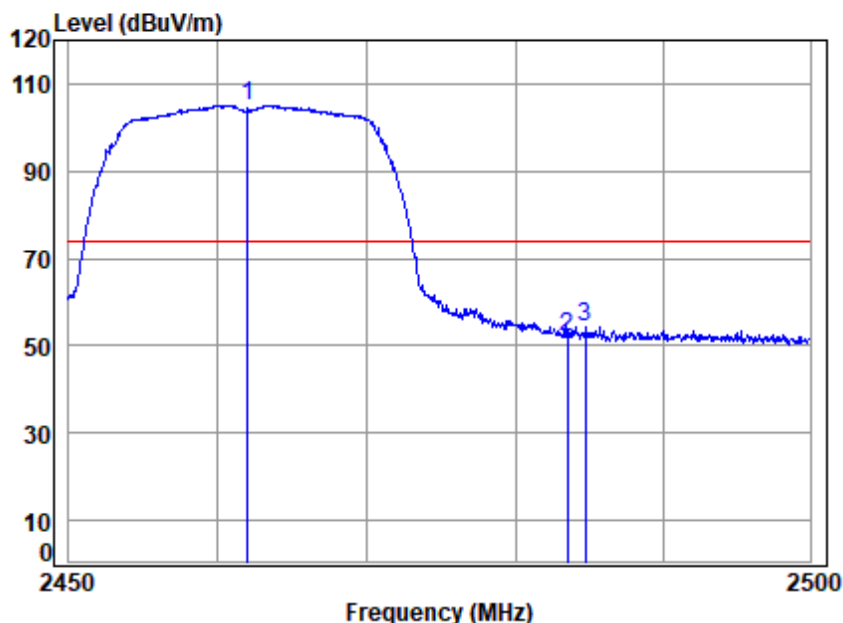
Mode : 2462 Band edge

: 2.4G Wi-Fi 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	83.92	87.29	54.00	33.29	Average
2	2483.500	7.40	27.80	31.55	33.40	37.05	54.00	-16.95	Average
3	2484.091	7.40	27.80	31.55	33.95	37.60	54.00	-16.40	Average



Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01476AT

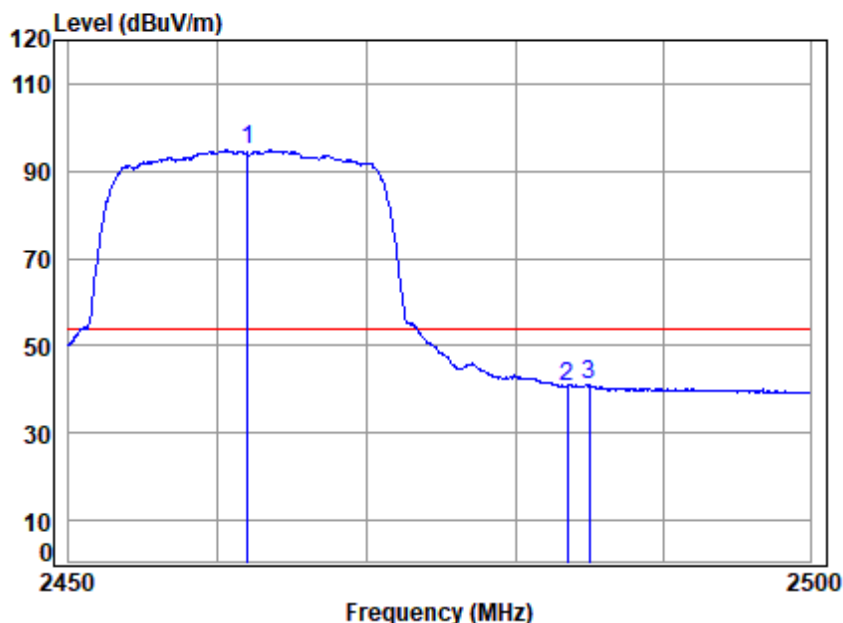
Mode : 2462 Band edge

: 2.4G Wi-Fi 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	101.71	105.08	74.00	31.08	Peak
2	2483.500	7.40	27.80	31.55	48.48	52.13	74.00	-21.87	Peak
3	2484.743	7.41	27.81	31.55	50.62	54.29	74.00	-19.71	Peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01476AT

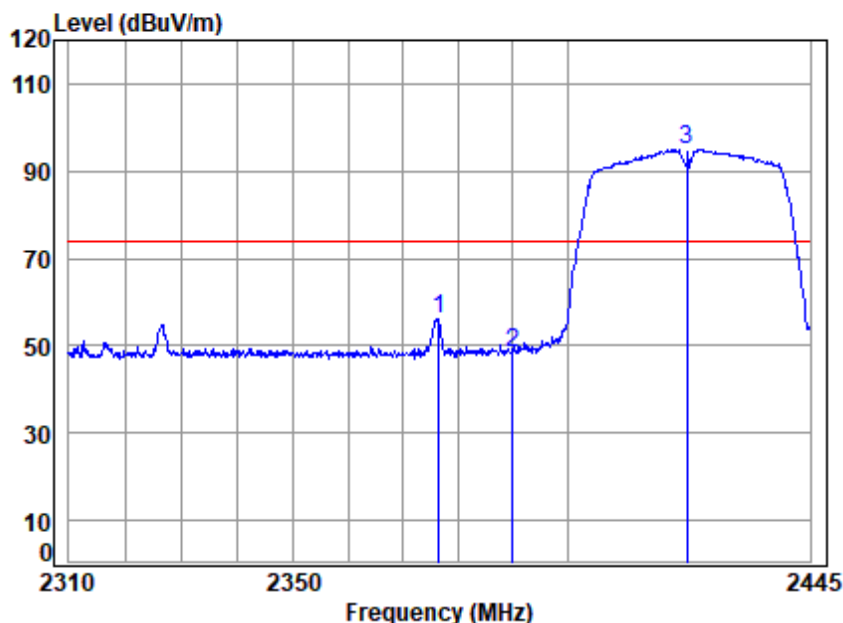
Mode : 2462 Band edge

: 2.4G Wi-Fi 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	91.40	94.77	54.00	40.77	Average
2	2483.500	7.40	27.80	31.55	37.16	40.81	54.00	-13.19	Average
3	2484.994	7.41	27.81	31.55	37.31	40.98	54.00	-13.02	Average



Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU); Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 01476AT

Mode : 2422 Band edge

: 2.4G Wi-Fi 11ax40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2376.407	6.82	27.41	31.54	53.58	56.27	74.00	-17.73	peak
2	2390.000	6.82	27.46	31.54	45.83	48.57	74.00	-25.43	peak
3 pp	2422.000	6.98	27.54	31.54	91.91	94.89	74.00	20.89	peak

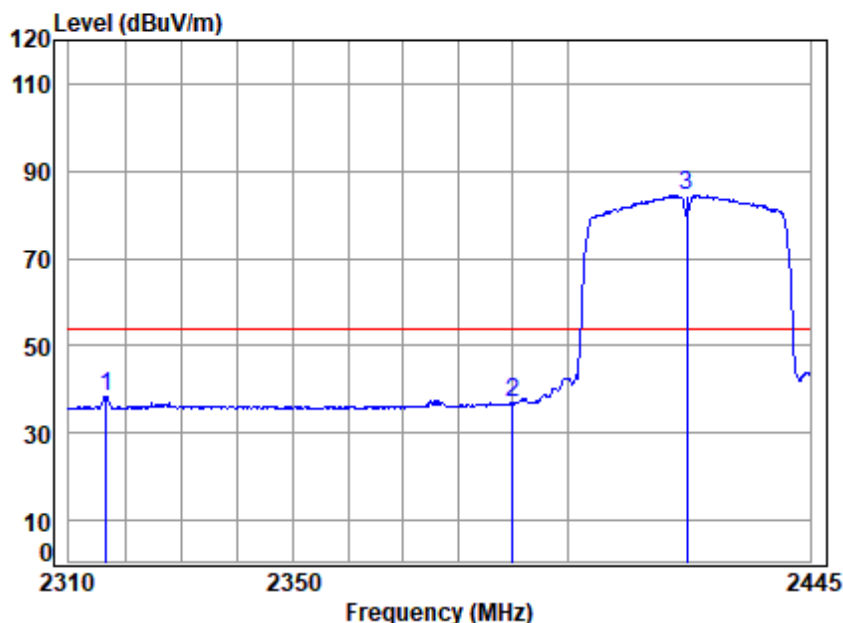


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU); Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 01476AT

Mode : 2422 Band edge

: 2.4G Wi-Fi 11ax40

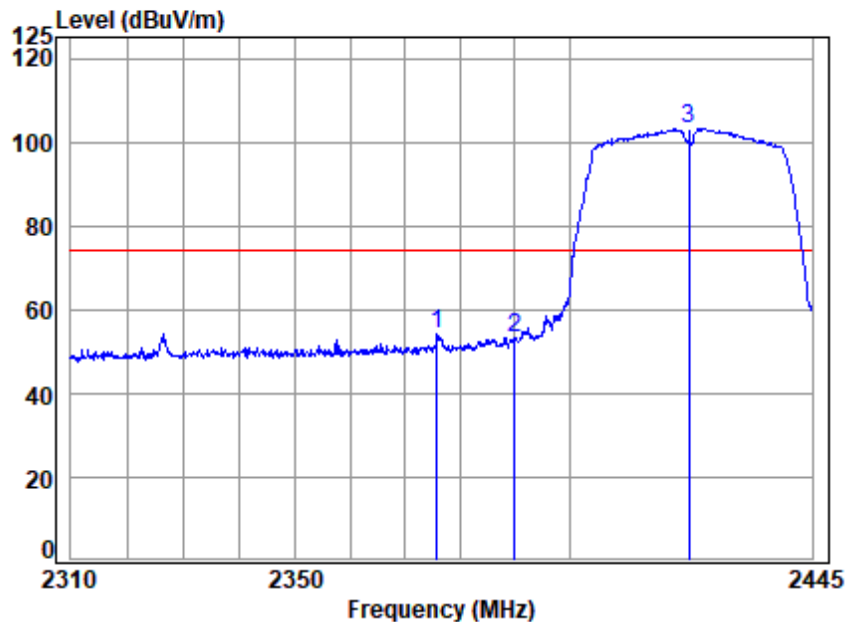
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2316.701	6.79	27.23	31.53	35.68	38.17	54.00	-15.83	Average
2	2390.000	6.82	27.46	31.54	34.05	36.79	54.00	-17.21	Average
3 pp	2422.000	6.98	27.54	31.54	81.51	84.49	54.00	30.49	Average



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Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU); Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01476AT

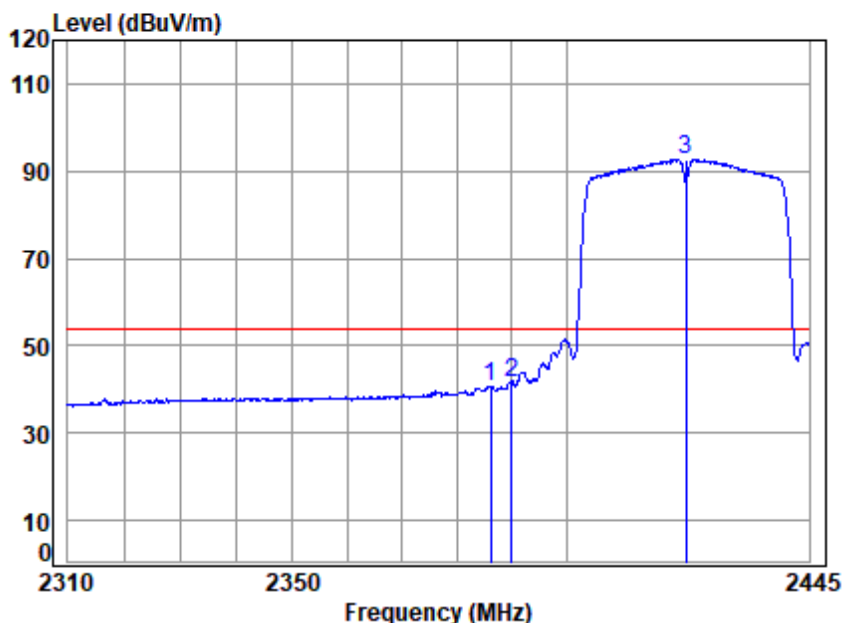
Mode : 2422 Band edge

: 2.4G Wi-Fi 11ax40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2375.732	6.82	27.40	31.54	51.57	54.25	74.00	-19.75	Peak
2 2390.000	6.82	27.46	31.54	50.59	53.33	74.00	-20.67	Peak
3 pp 2422.000	6.98	27.54	31.54	100.12	103.10	74.00	29.10	Peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU); Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01476AT

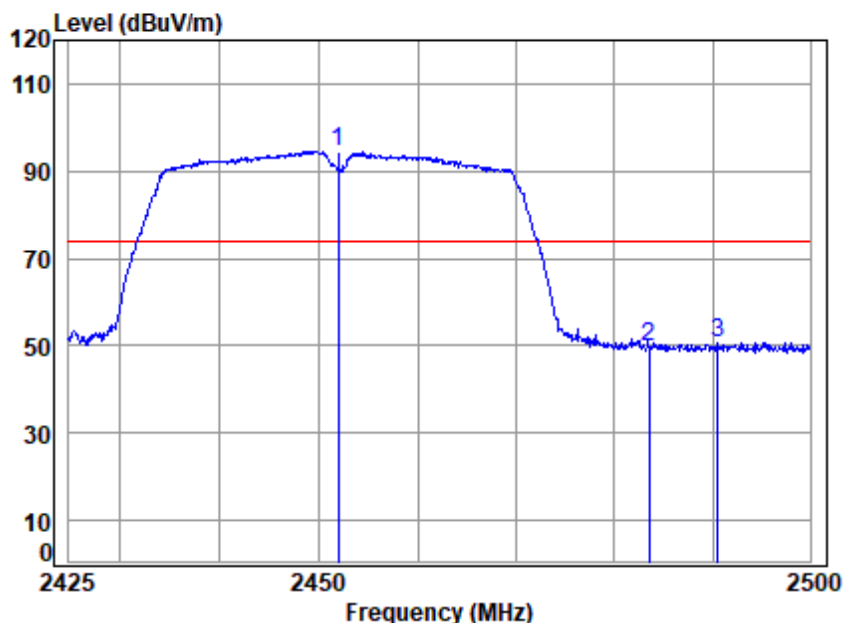
Mode : 2422 Band edge

: 2.4G Wi-Fi 11ax40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2386.145	6.82	27.44	31.54	37.97	40.69	54.00	-13.31	Average
2	2390.000	6.82	27.46	31.54	38.91	41.65	54.00	-12.35	Average
3 pp	2422.000	6.98	27.54	31.54	89.71	92.69	54.00	38.69	Average



Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU); Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 01476AT

Mode : 2452 Band edge

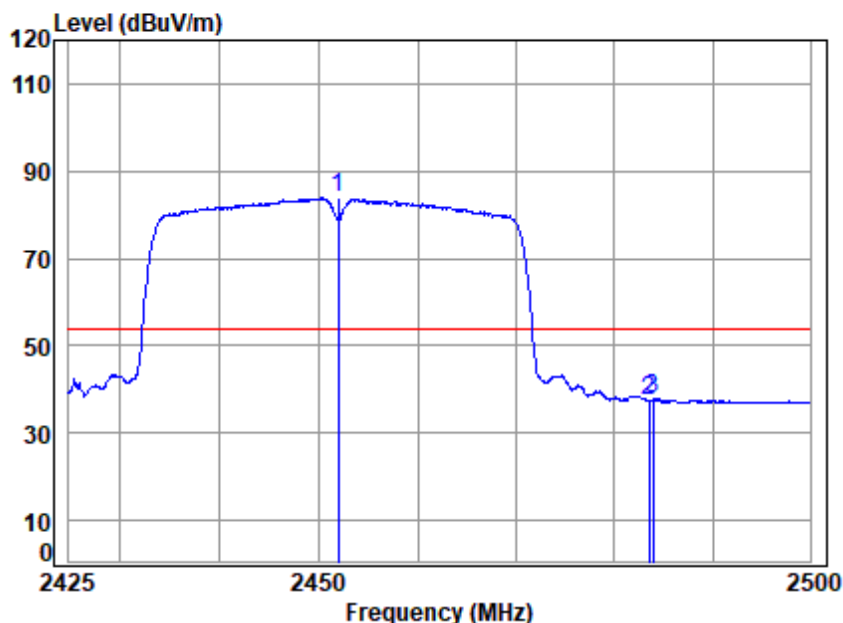
: 2.4G Wi-Fi 11ax40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	7.18	27.61	31.55	91.29	94.53	74.00	20.53	peak
2	2483.500	7.40	27.80	31.55	45.90	49.55	74.00	-24.45	peak
3	2490.575	7.45	27.84	31.55	47.08	50.82	74.00	-23.18	peak





Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU); Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 01476AT

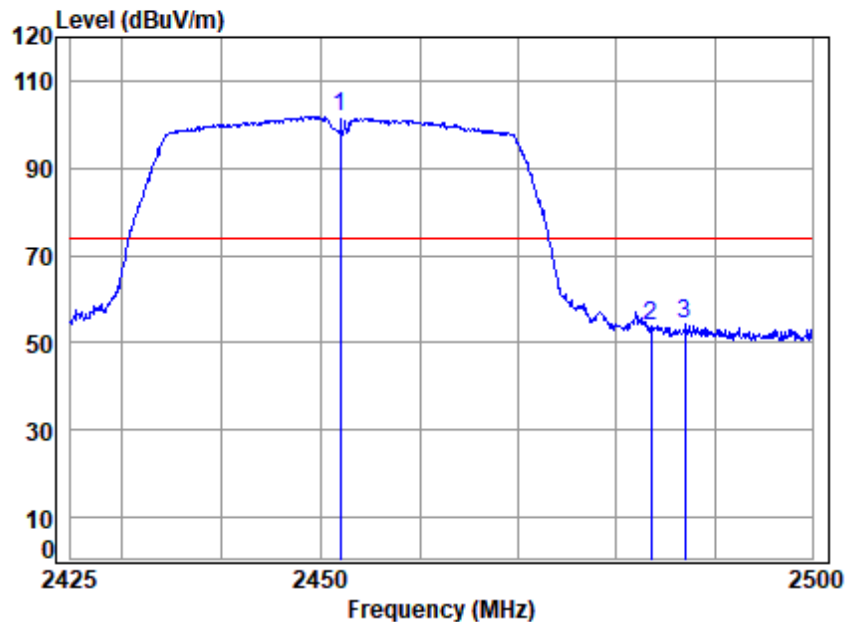
Mode : 2452 Band edge

: 2.4G Wi-Fi 11ax40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 2452.000	7.18	27.61	31.55	80.66	83.90	54.00	29.90	Average
2 2483.500	7.40	27.80	31.55	33.72	37.37	54.00	-16.63	Average
3 2483.909	7.40	27.80	31.55	34.17	37.82	54.00	-16.18	Average



Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU); Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01476AT

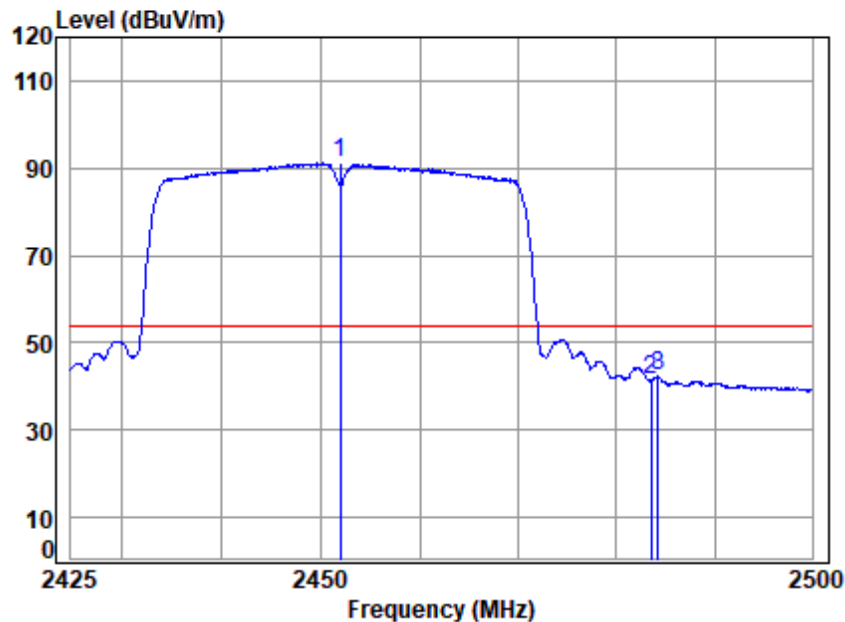
Mode : 2452 Band edge

: 2.4G Wi-Fi 11ax40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	7.18	27.61	31.55	98.65	101.89	74.00	27.89	Peak
2	2483.500	7.40	27.80	31.55	50.00	53.65	74.00	-20.35	Peak
3	2487.012	7.42	27.82	31.55	50.50	54.19	74.00	-19.81	Peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU); Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01476AT

Mode : 2452 Band edge

: 2.4G Wi-Fi 11ax40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	7.18	27.61	31.55	88.01	91.25	54.00	37.25	Average
2	2483.500	7.40	27.80	31.55	37.70	41.35	54.00	-12.65	Average
3	2484.211	7.40	27.81	31.55	38.57	42.23	54.00	-11.77	Average



### 6.2 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

Limit:

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

#### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C

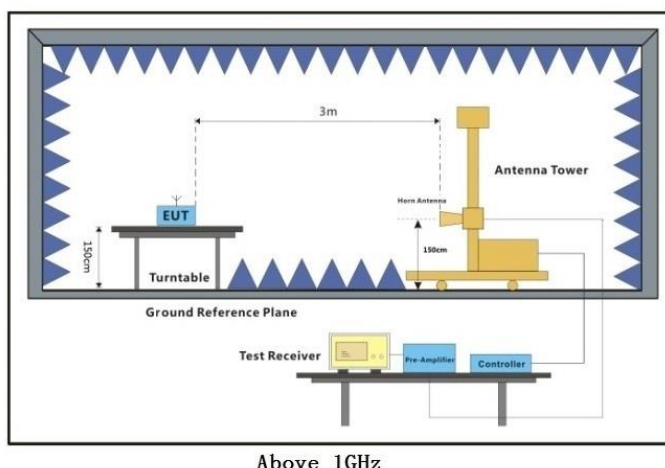
Humidity: 50.5 % RH

Atmospheric Pressure: 1020 mbar

#### 6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11 ac(VHT40).data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

#### 6.2.3 Test Setup Diagram





## 6.2.4 Measurement Procedure and Data

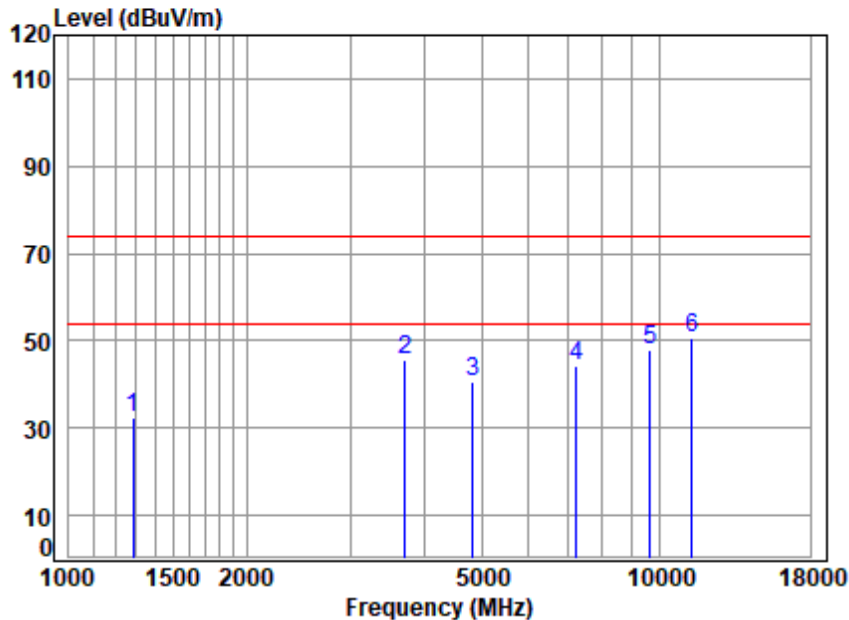
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which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

Remark:

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



Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 01476AT

Mode : 2412 TX RSE

: 2.4G Wi-Fi 11b

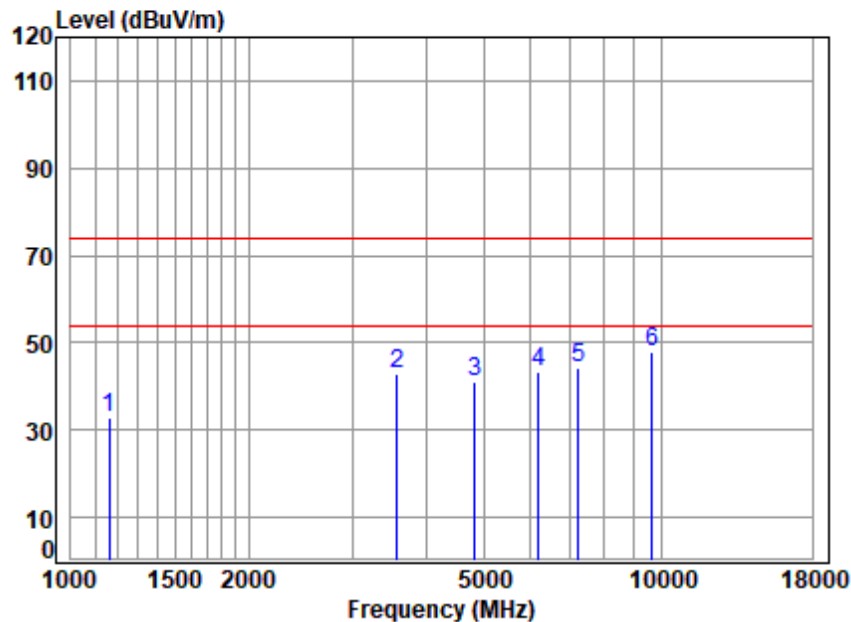
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1285.904	7.16	25.23	54.70	54.82	32.51	74.00	-41.49 peak
2	3714.443	7.91	29.83	55.43	63.25	45.56	74.00	-28.44 peak
3	4824.000	8.92	32.00	56.18	55.90	40.64	74.00	-33.36 peak
4	7236.000	11.10	36.60	56.51	53.26	44.45	74.00	-29.55 peak
5	9648.000	12.49	38.70	54.42	51.28	48.05	74.00	-25.95 peak
6	pp11368.000	14.20	39.70	53.61	50.58	50.87	74.00	-23.13 Peak



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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01476AT

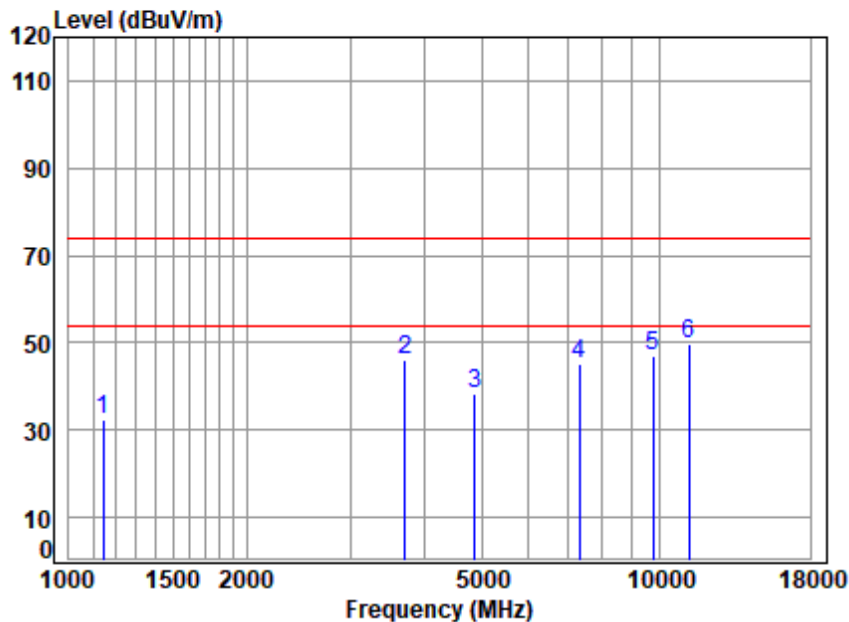
Mode : 2412 TX RSE

: 2.4G Wi-Fi 11b

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7.16	25.38	54.70	55.07	32.91	74.00	-41.09	peak
2	7.75	29.83	55.34	60.76	43.00	74.00	-31.00	peak
3	8.92	32.00	56.18	56.16	40.90	74.00	-33.10	peak
4	10.46	34.11	56.86	55.64	43.35	74.00	-30.65	Peak
5	11.10	36.60	56.51	52.94	44.13	74.00	-29.87	peak
6 pp	12.49	38.70	54.42	51.20	47.97	74.00	-26.03	peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 01476AT

Mode : 2437 TX RSE

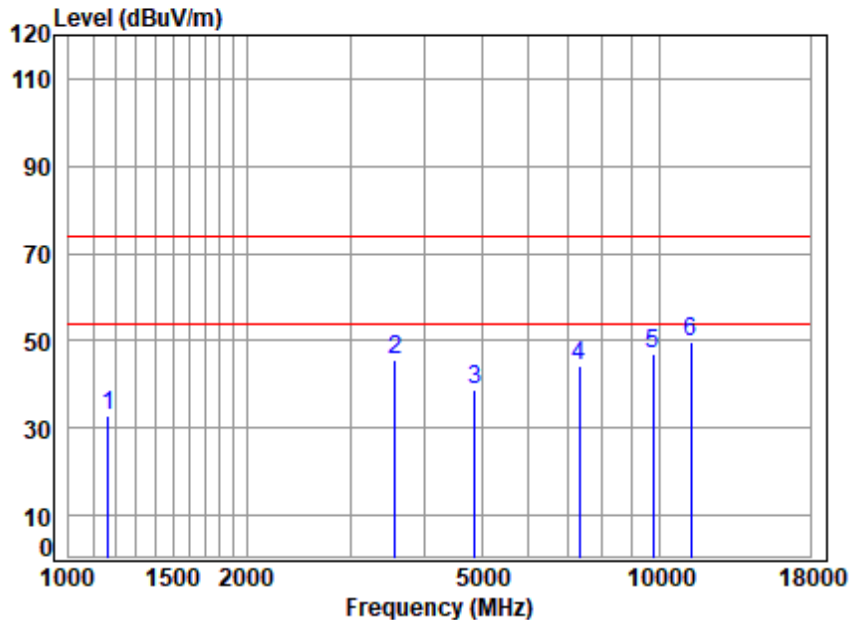
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	7.14	25.42	54.70	54.34	32.20	74.00	-41.80	peak
2	3714.443	7.91	29.83	55.43	64.00	46.31	74.00	-27.69	peak
3	4874.000	8.97	32.15	56.21	53.56	38.47	74.00	-35.53	peak
4	7311.000	11.11	36.72	56.45	53.81	45.19	74.00	-28.81	peak
5	9748.000	12.80	38.60	54.33	49.73	46.80	74.00	-27.20	peak
6	pp11204.900	14.25	39.60	53.56	49.23	49.52	74.00	-24.48	peak





Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 01476AT

Mode : 2437 TX RSE

: 2.4G Wi-Fi 11b

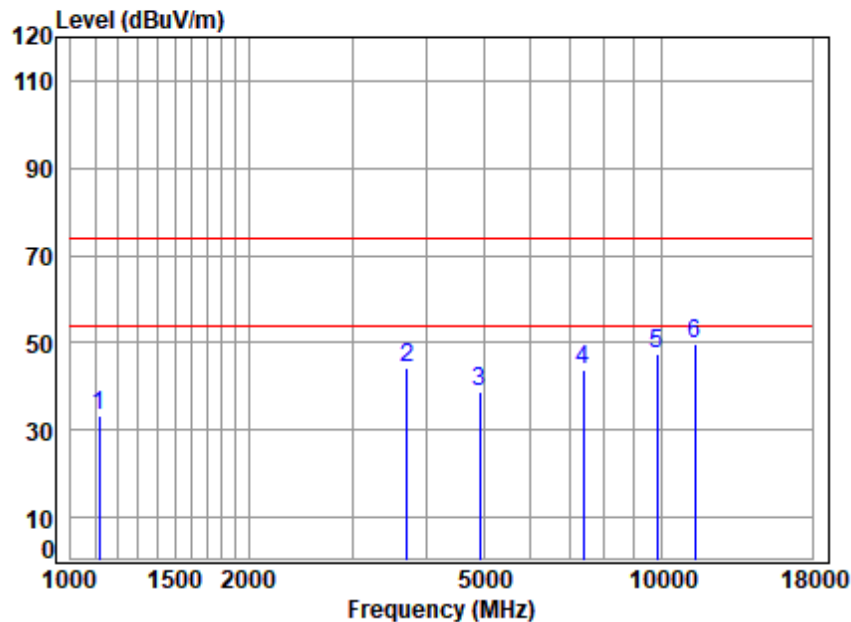
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1165.546	7.16	25.37	54.70	54.83	32.66	74.00	-41.34 peak
2	3567.138	7.75	29.83	55.34	63.21	45.45	74.00	-28.55 peak
3	4874.000	8.97	32.15	56.21	53.91	38.82	74.00	-35.18 peak
4	7311.000	11.11	36.72	56.45	52.87	44.25	74.00	-29.75 peak
5	9748.000	12.80	38.60	54.33	49.77	46.84	74.00	-27.16 peak
6	pp11302.480	14.39	39.70	53.59	49.41	49.91	74.00	-24.09 peak



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 01476AT

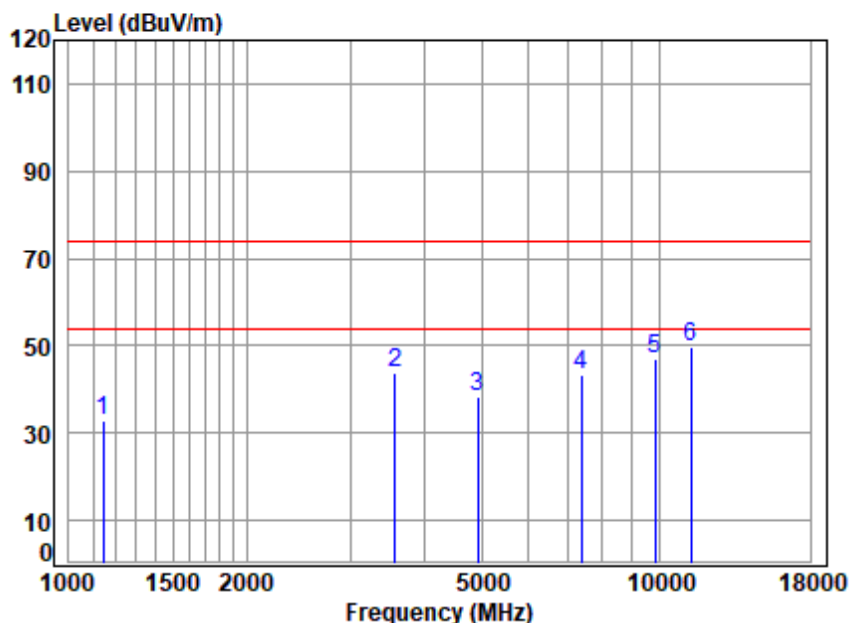
Mode : 2462 TX RSE

: 2.4G Wi-Fi 11b

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1116.093	7.11	25.54	54.70	55.35	33.30	74.00	-40.70 peak
2	3714.443	7.91	29.83	55.43	61.78	44.09	74.00	-29.91 peak
3	4924.000	9.03	32.20	56.25	53.91	38.89	74.00	-35.11 peak
4	7386.000	11.19	36.73	56.39	52.07	43.60	74.00	-30.40 peak
5	9848.000	12.84	37.83	54.24	50.88	47.31	74.00	-26.69 peak
6	pp11400.910	14.10	39.70	53.62	49.45	49.63	74.00	-24.37 peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01476AT

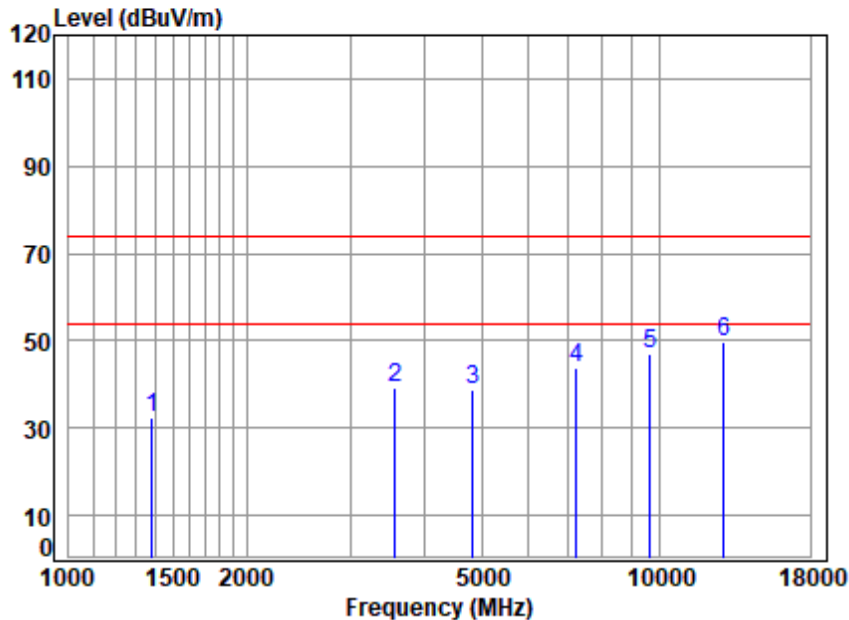
Mode : 2462 TX RSE

: 2.4G Wi-Fi 11b

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	7.14	25.42	54.70	55.16	33.02	74.00	-40.98 peak
2	3567.138	7.75	29.83	55.34	61.43	43.67	74.00	-30.33 peak
3	4924.000	9.03	32.20	56.25	53.44	38.42	74.00	-35.58 peak
4	7386.000	11.19	36.73	56.39	51.60	43.13	74.00	-30.87 peak
5	9848.000	12.84	37.83	54.24	50.68	47.11	74.00	-26.89 peak
6	pp11302.480	14.39	39.70	53.59	49.39	49.89	74.00	-24.11 peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 01476AT

Mode : 2412 TX RSE

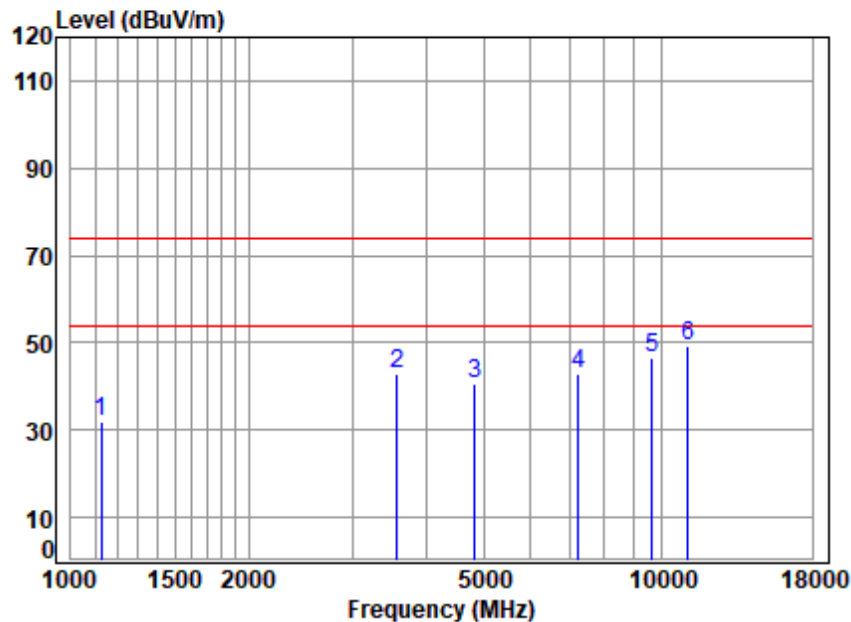
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1382.262	7.20	25.04	54.70	54.76	32.30	74.00	-41.70	peak
2	3567.138	7.75	29.83	55.34	56.78	39.02	74.00	-34.98	peak
3	4824.000	8.92	32.00	56.18	53.82	38.56	74.00	-35.44	peak
4	7236.000	11.10	36.60	56.51	52.59	43.78	74.00	-30.22	peak
5	9648.000	12.49	38.70	54.42	50.09	46.86	74.00	-27.14	peak
6	pp12872.440	15.22	40.37	54.41	48.77	49.95	74.00	-24.05	peak





Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01476AT

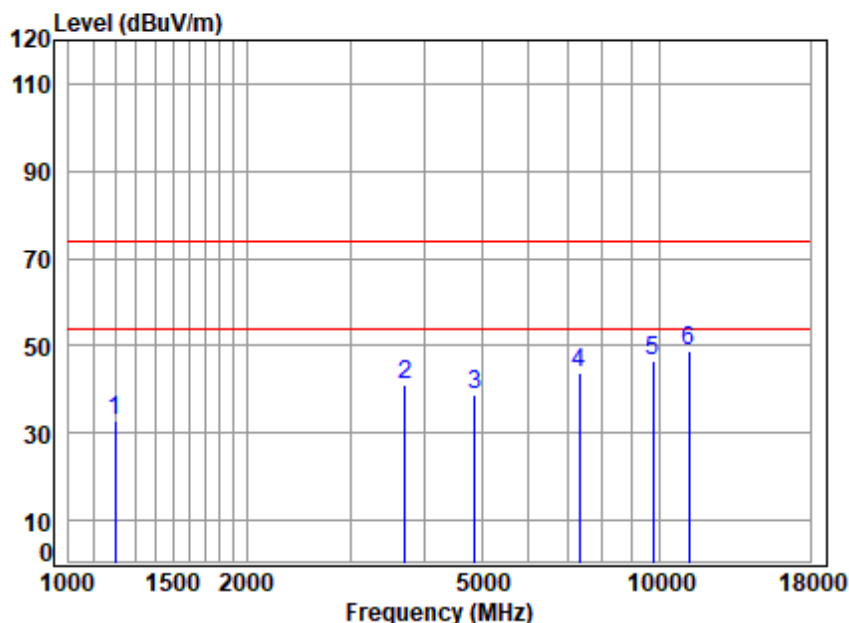
Mode : 2412 TX RSE

: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1125.813	7.12	25.50	54.70	53.91	31.83	74.00	-42.17	peak
2	3567.138	7.75	29.83	55.34	60.46	42.70	74.00	-31.30	peak
3	4824.000	8.92	32.00	56.18	55.90	40.64	74.00	-33.36	peak
4	7236.000	11.10	36.60	56.51	51.87	43.06	74.00	-30.94	peak
5	9648.000	12.49	38.70	54.42	49.75	46.52	74.00	-27.48	peak
6	pp11108.160	14.13	39.51	53.53	49.04	49.15	74.00	-24.85	peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 01476AT

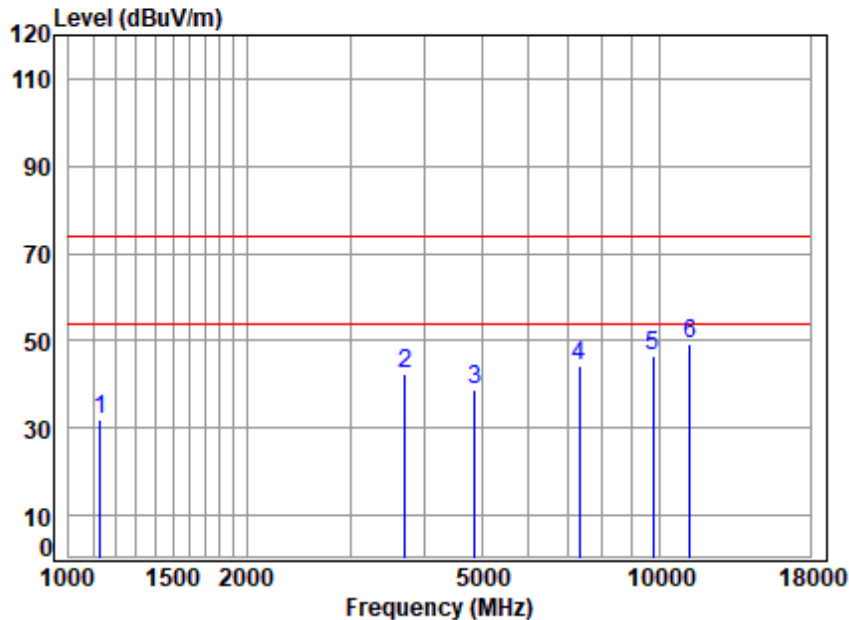
Mode : 2437 TX RSE

: 2.4G Wi-Fi 11n20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	7.19	25.31	54.70	55.26	33.06	74.00	-40.94 peak
2	3714.443	7.91	29.83	55.43	58.92	41.23	74.00	-32.77 peak
3	4874.000	8.97	32.15	56.21	53.77	38.68	74.00	-35.32 peak
4	7311.000	11.11	36.72	56.45	52.58	43.96	74.00	-30.04 peak
5	9748.000	12.80	38.60	54.33	49.26	46.33	74.00	-27.67 peak
6	pp11204.900	14.25	39.60	53.56	48.59	48.88	74.00	-25.12 peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 01476AT

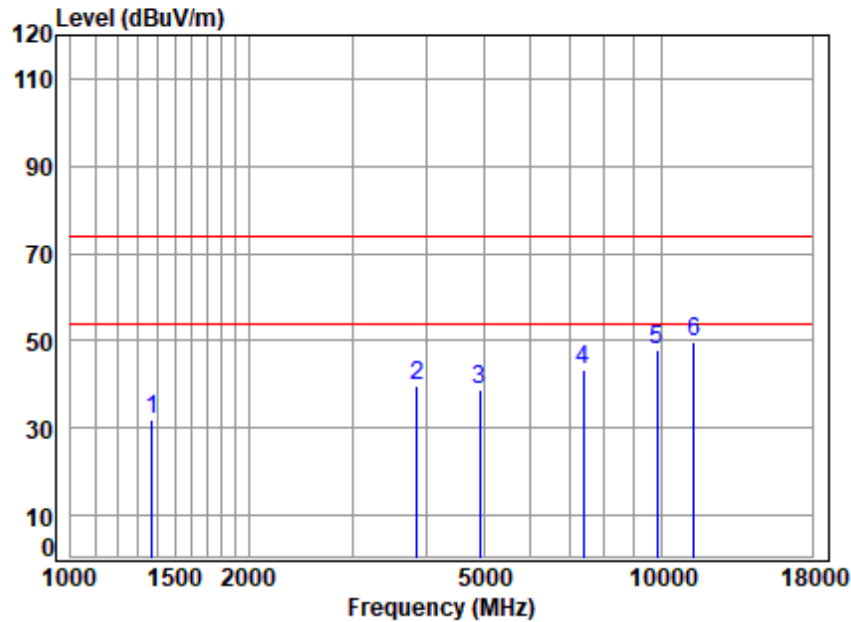
Mode : 2437 TX RSE

: 2.4G Wi-Fi 11n20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1132.340	7.13	25.47	54.70	54.13	32.03	74.00	-41.97 peak
2	3714.443	7.91	29.83	55.43	59.97	42.28	74.00	-31.72 peak
3	4874.000	8.97	32.15	56.21	54.07	38.98	74.00	-35.02 peak
4	7311.000	11.11	36.72	56.45	52.91	44.29	74.00	-29.71 peak
5	9748.000	12.80	38.60	54.33	49.26	46.33	74.00	-27.67 peak
6	pp11269.860	14.35	39.67	53.58	48.91	49.35	74.00	-24.65 peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 01476AT

Mode : 2462 TX RSE

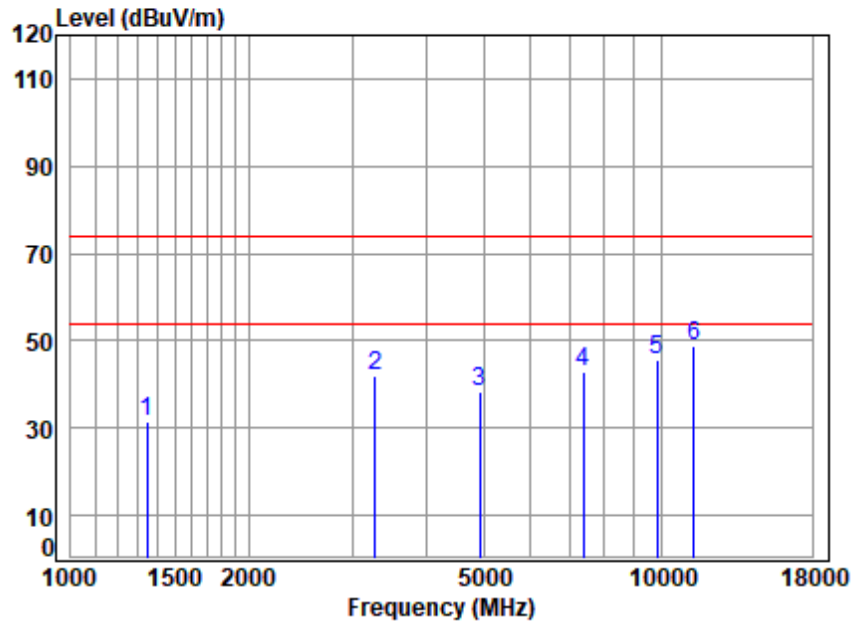
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1374.295	7.19	25.05	54.70	54.50	32.04	74.00	-41.96	peak
2	3856.668	8.04	29.81	55.51	57.24	39.58	74.00	-34.42	peak
3	4924.000	9.03	32.20	56.25	53.65	38.63	74.00	-35.37	peak
4	7386.000	11.19	36.73	56.39	51.61	43.14	74.00	-30.86	peak
5	9848.000	12.84	37.83	54.24	51.26	47.69	74.00	-26.31	peak
6	pp11335.190	14.29	39.70	53.60	49.41	49.80	74.00	-24.20	peak





Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01476AT

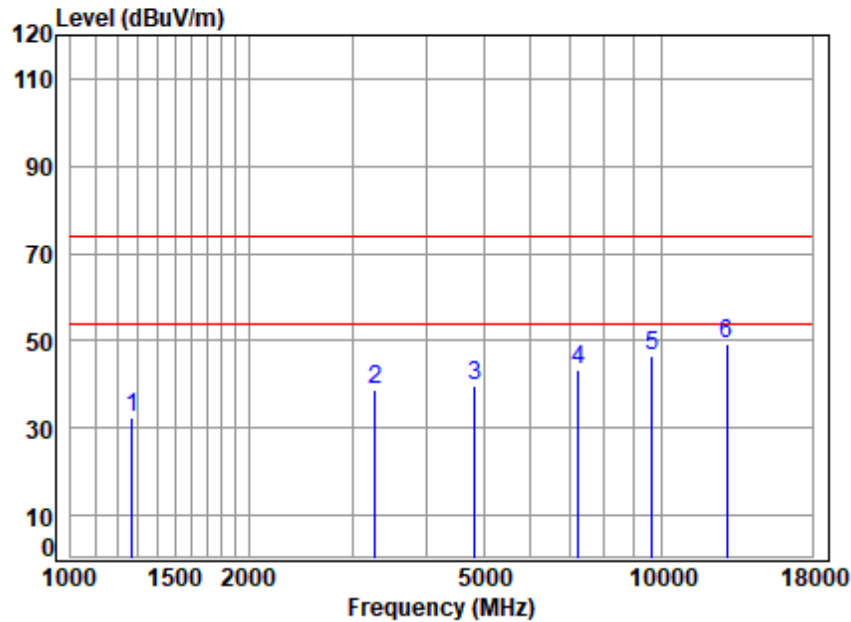
Mode : 2462 TX RSE

: 2.4G Wi-Fi 11n20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1346.769	7.18	25.11	54.70	53.98	31.57	74.00	-42.43 peak
2	3270.858	7.61	29.26	55.16	60.25	41.96	74.00	-32.04 peak
3	4924.000	9.03	32.20	56.25	53.42	38.40	74.00	-35.60 peak
4	7386.000	11.19	36.73	56.39	51.45	42.98	74.00	-31.02 peak
5	9848.000	12.84	37.83	54.24	49.11	45.54	74.00	-28.46 peak
6	pp11368.000	14.20	39.70	53.61	48.73	49.02	74.00	-24.98 peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 01476AT

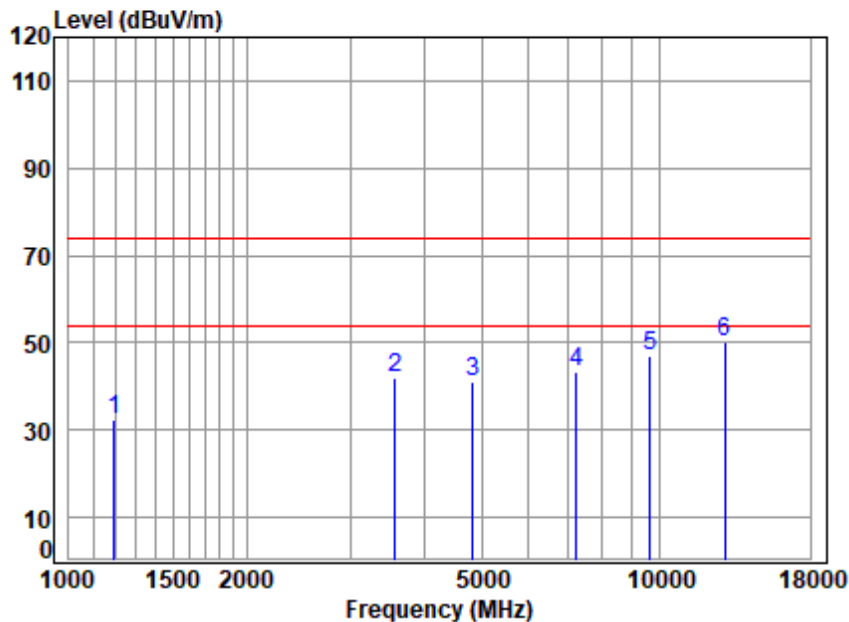
Mode : 2412 TX RSE

: 2.4G Wi-Fi 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1271.123	7.16	25.26	54.70	54.59	32.31	74.00	-41.69	peak
2	3270.858	7.61	29.26	55.16	57.10	38.81	74.00	-35.19	peak
3	4824.000	8.92	32.00	56.18	54.75	39.49	74.00	-34.51	peak
4	7236.000	11.10	36.60	56.51	52.31	43.50	74.00	-30.50	peak
5	9648.000	12.49	38.70	54.42	49.69	46.46	74.00	-27.54	peak
6	pp12909.700	15.24	40.39	54.44	47.88	49.07	74.00	-24.93	peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01476AT

Mode : 2412 TX RSE

: 2.4G Wi-Fi 11ax20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1192.811	7.18	25.31	54.70	54.61	32.40	74.00 -41.60 peak
2	3567.138	7.75	29.83	55.34	59.89	42.13	74.00 -31.87 peak
3	4824.000	8.92	32.00	56.18	56.48	41.22	74.00 -32.78 peak
4	7236.000	11.10	36.60	56.51	52.31	43.50	74.00 -30.50 peak
5	9648.000	12.49	38.70	54.42	50.17	46.94	74.00 -27.06 peak
6	pp12909.700	15.24	40.39	54.44	48.97	50.16	74.00 -23.84 peak



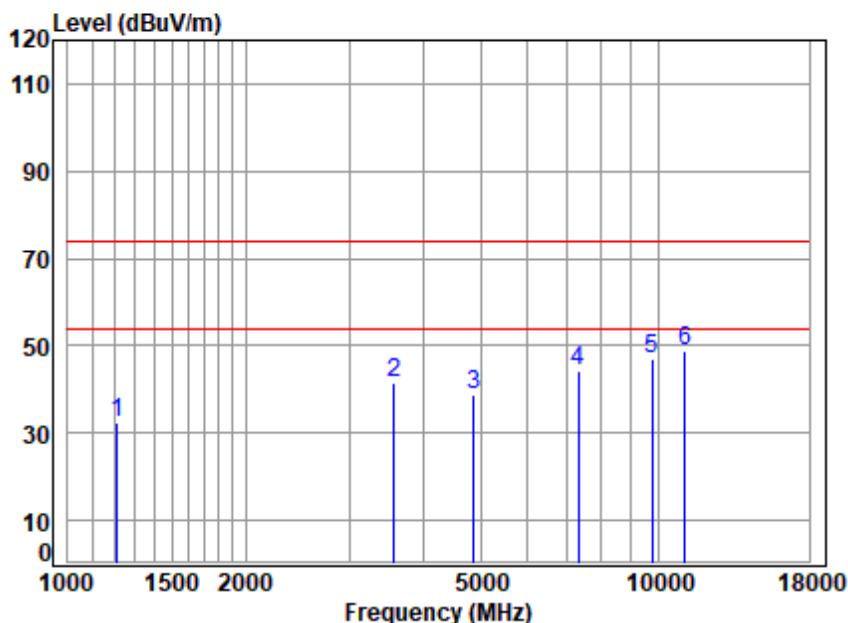
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU); Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 01476AT

Mode : 2437 TX RSE

: 2.4G Wi-Fi 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1213.677	7.18	25.30	54.70	54.76	32.54	74.00	-41.46	peak
2	3567.138	7.75	29.83	55.34	59.09	41.33	74.00	-32.67	peak
3	4874.000	8.97	32.15	56.21	54.05	38.96	74.00	-35.04	peak
4	7311.000	11.11	36.72	56.45	53.03	44.41	74.00	-29.59	peak
5	9748.000	12.80	38.60	54.33	49.79	46.86	74.00	-27.14	peak
6	pp11076.100	14.14	39.48	53.52	48.88	48.98	74.00	-25.02	peak



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Laboratory

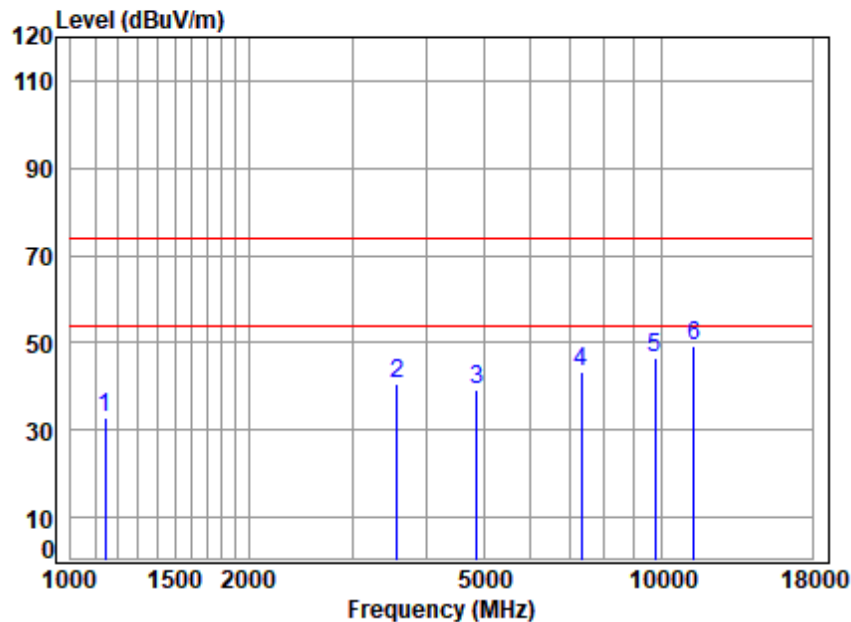
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU); Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 01476AT

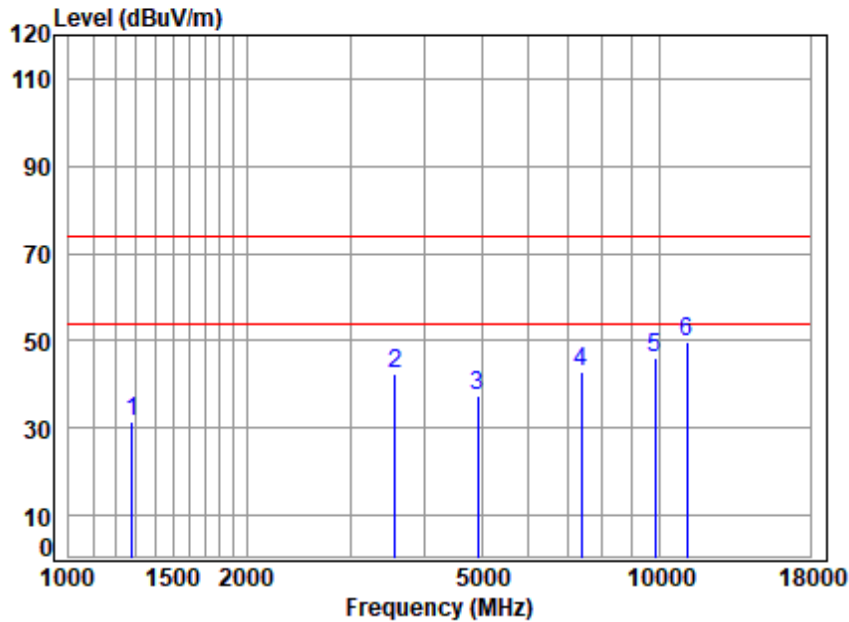
Mode : 2437 TX RSE

: 2.4G Wi-Fi 11ax20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1142.201	7.14	25.43	54.70	55.20	33.07	74.00	-40.93 peak
2	3567.138	7.75	29.83	55.34	58.45	40.69	74.00	-33.31 peak
3	4874.000	8.97	32.15	56.21	54.33	39.24	74.00	-34.76 peak
4	7311.000	11.11	36.72	56.45	52.03	43.41	74.00	-30.59 peak
5	9748.000	12.80	38.60	54.33	49.64	46.71	74.00	-27.29 peak
6	pp11335.190	14.29	39.70	53.60	48.86	49.25	74.00	-24.75 peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 01476AT

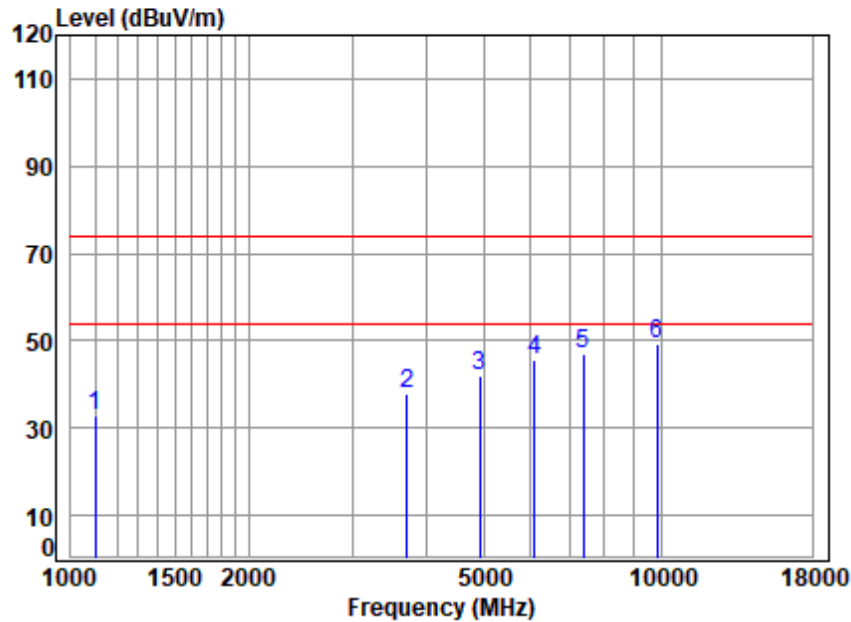
Mode : 2462 TX RSE

: 2.4G Wi-Fi 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1278.492	7.16	25.24	54.70	53.98	31.68	74.00	-42.32	peak
2	3567.138	7.75	29.83	55.34	60.02	42.26	74.00	-31.74	peak
3	4924.000	9.03	32.20	56.25	52.49	37.47	74.00	-36.53	peak
4	7386.000	11.19	36.73	56.39	51.31	42.84	74.00	-31.16	peak
5	9848.000	12.84	37.83	54.24	49.65	46.08	74.00	-27.92	peak
6	pp11140.310	14.17	39.54	53.54	49.37	49.54	74.00	-24.46	peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01476AT

Mode : 2462 TX RSE

: 2.4G Wi-Fi 11ax20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1100.079	7.10	25.60	54.70	54.86	32.86	74.00	-41.14 peak
2	3714.443	7.91	29.83	55.43	55.46	37.77	74.00	-36.23 peak
3	4924.000	9.03	32.20	56.25	56.88	41.86	74.00	-32.14 peak
4	6088.991	10.32	33.74	56.88	58.37	45.55	74.00	-28.45 Peak
5	7386.000	11.19	36.73	56.39	55.57	47.10	74.00	-26.90 peak
6 pp	9848.000	12.84	37.83	54.24	52.66	49.09	74.00	-24.91 peak



## 7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2504001476AT

## 8 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2504001476AT

- End of the Report -

