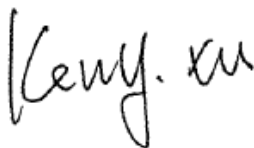


TEST REPORT

Application No.: SZCR2508003778AT
Applicant: Shenzhen RF-star Technology Co., Ltd.
Address of Applicant: A503, Podium Building No. 12, shenzhen Bay Science and Technology Ecological Park, Nanshan District Shenzhen 518063 China
Manufacturer: Shenzhen RF-star Technology Co., Ltd.
Address of Manufacturer: A503, Podium Building No. 12, shenzhen Bay Science and Technology Ecological Park, Nanshan District Shenzhen 518063 China
Factory: SHENZHEN XUYUXIN TECHNOLOGY CO.,LTD
Address of Factory: 4th Floor, Building C2, Hengfeng Industrial City, Baoan Zone, Shenzhen, Guangdong, China
Equipment Under Test (EUT):
EUT Name: Wi-Fi Module
Model No.: RF-WM-3220B1
Trade Mark: RF-star
FCC ID: 2ABN2-RS3220B1
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2025-08-27
Date of Test: 2025-09-03 to 2025-09-04
Date of Issue: 2025-09-08

Test Result:	Pass*
---------------------	--------------

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



Keny Xu
EMC Laboratory Manager





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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800377801

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-09-08		Original

Authorized for issue by:				
		Donjon . Huang		
		Donjon Huang/Project Engineer		
		Eric Fu		
		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 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2020) 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) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Remark:

Model No.: RF-WM-3220B1

This test report (Ref. No.: SZCR250800377801) is only valid with the modular test report (Ref. No.: GTS201808000035F01)

According to the declaration from the applicant, the WIFI module used in this report and the one in original report were identical (WIFI module, model No.: RF-WM-3220B1). Only the antenna was replaced.

Therefore in this report Radiated Emissions which fall in the restricted bands, Radiated Spurious Emissions Below 1GHz and 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 GTS201808000035F01.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.3V
Cable Loss (for RF conducted test):	0.7dB
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type:	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Number of Channels:	802.11b/g/n(HT20):11
Channel Spacing:	5MHz
Antenna Type:	Chip Antenna
Antenna Gain:	2.41dBi
Antenna Number:	1

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.
Laptop	Lenovo	L480	REF. No.SEA18C00E

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 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.

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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	2025-07-23	2026-07-22

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04

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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	2025-07-23	2026-07-22

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
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 (2020) 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: 24.5 °C

Humidity: 50.8 % RH

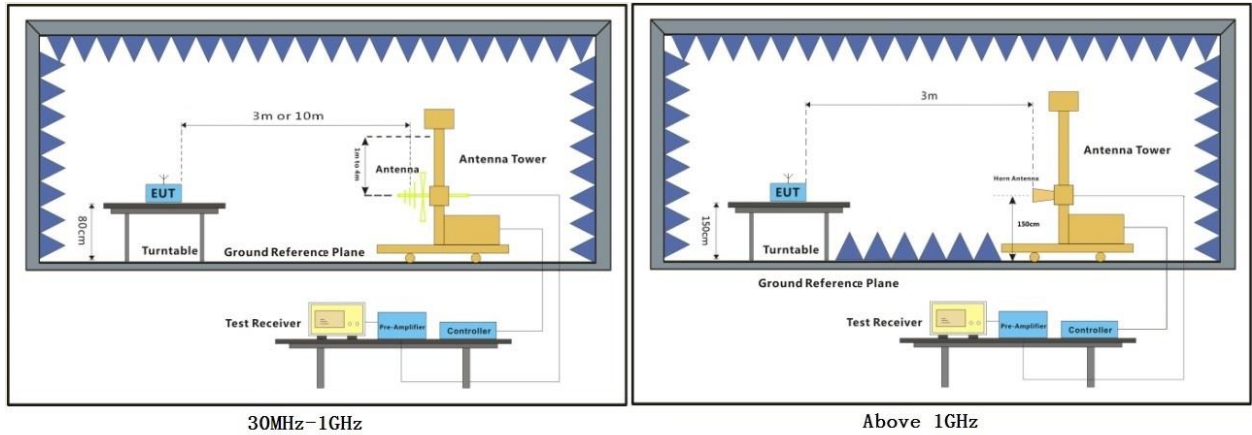
Atmospheric Pressure: 1020 mbar

6.1.2 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); final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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.

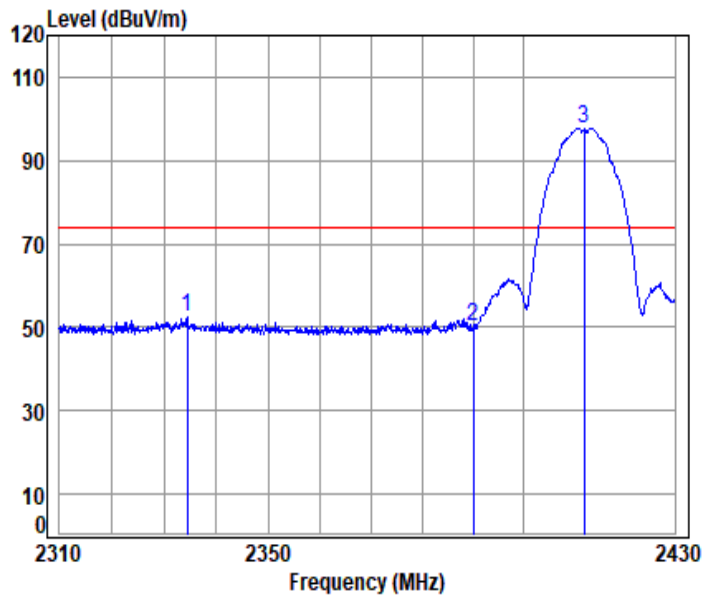
Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

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: 2.4G; Bandwidth:160MHz; Channel:144

11b_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03778AT/03779AT

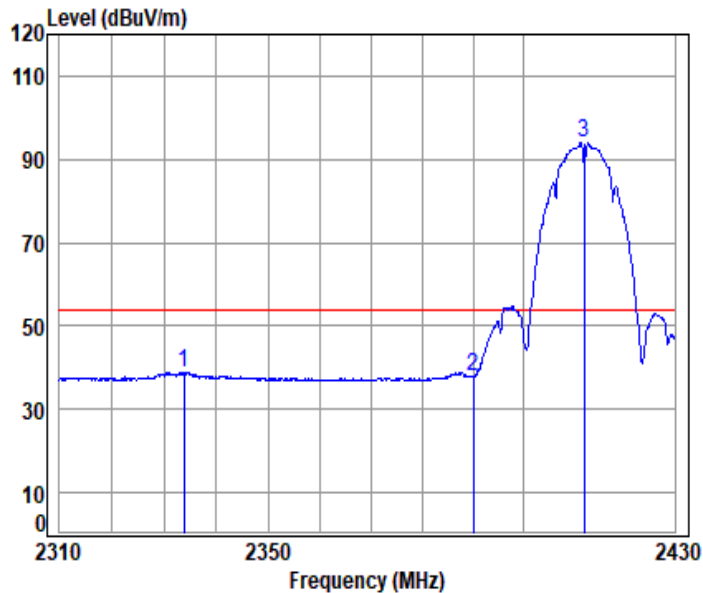
Mode : 2412 Band edge

: 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	2334.462	6.80	27.27	30.68	49.19	52.58	74.00 -21.42 peak
2	2390.000	6.83	27.46	30.69	46.40	50.00	74.00 -24.00 peak
3 pp	2412.000	6.91	27.52	30.69	94.08	97.82	74.00 23.82 peak



11b_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03778AT/03779AT

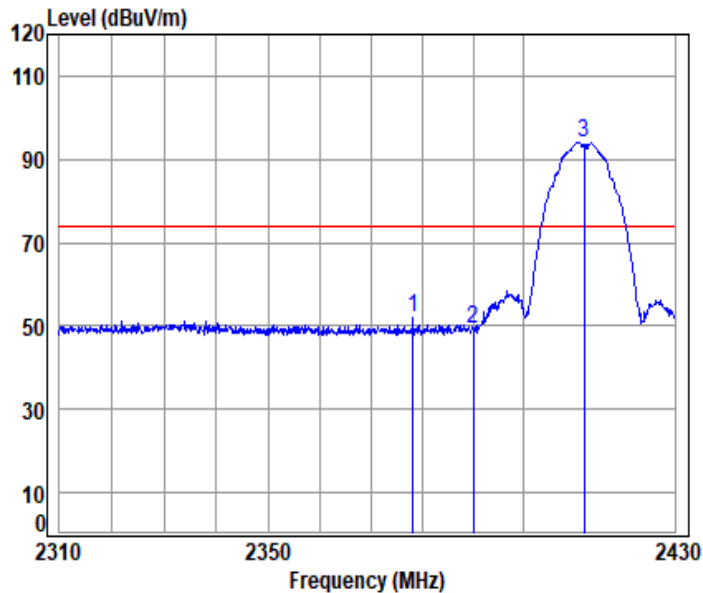
Mode : 2412 Band edge

: 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	2333.871	6.80	27.27	30.68	35.62	39.01	54.00	-14.99 Average
2	2390.000	6.83	27.46	30.69	34.24	37.84	54.00	-16.16 Average
3 pp	2412.000	6.91	27.52	30.69	90.17	93.91	54.00	39.91 Average



11b_TX_CH_01_Verical-Peak



Condition: 3m VERTICAL

Job No : 03778AT/03779AT

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	2378.136	6.82	27.41	30.69	48.55	52.09	74.00	-21.91 peak
2	2390.000	6.83	27.46	30.69	45.75	49.35	74.00	-24.65 peak
3	2412.000	6.91	27.52	30.69	90.33	94.07	74.00	20.07 peak



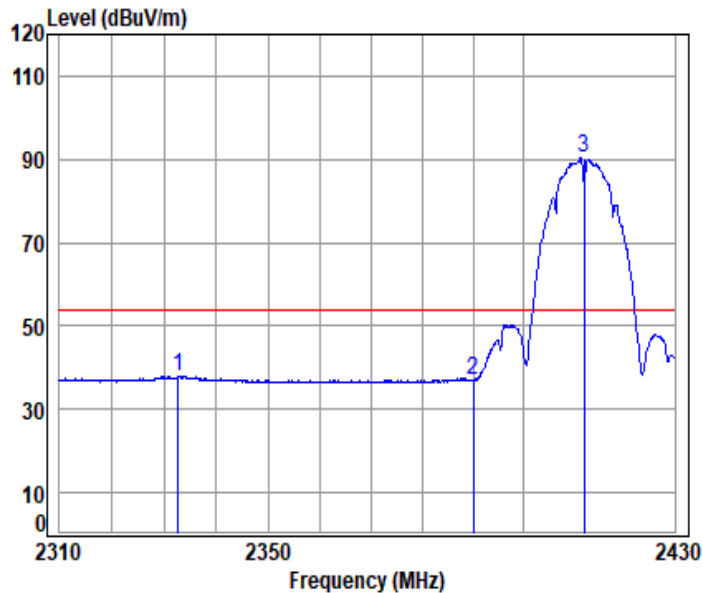
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11b_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL

Job No : 03778AT/03779AT

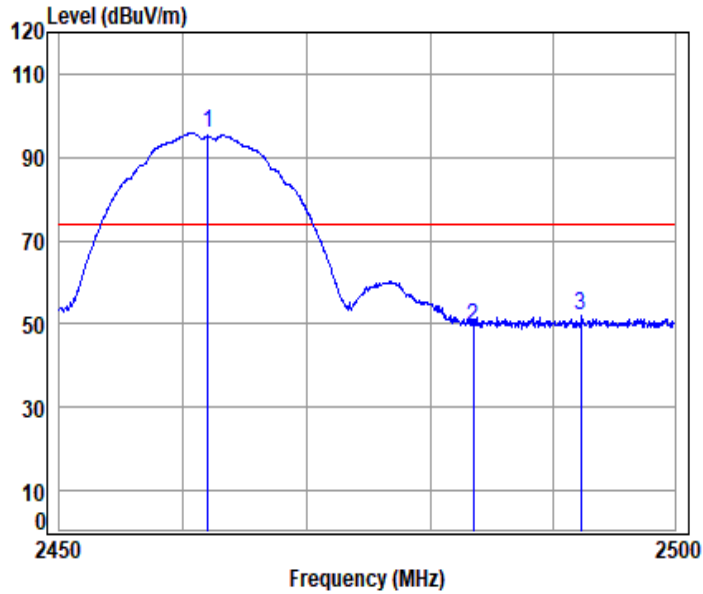
Mode : 2412 Band edge

: 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	2332.689	6.80	27.27	30.68	34.62	38.01	54.00	-15.99	Average
2	2390.000	6.83	27.46	30.69	33.43	37.03	54.00	-16.97	Average
3 pp	2412.000	6.91	27.52	30.69	86.50	90.24	54.00	36.24	Average



11b_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03778AT/03779AT

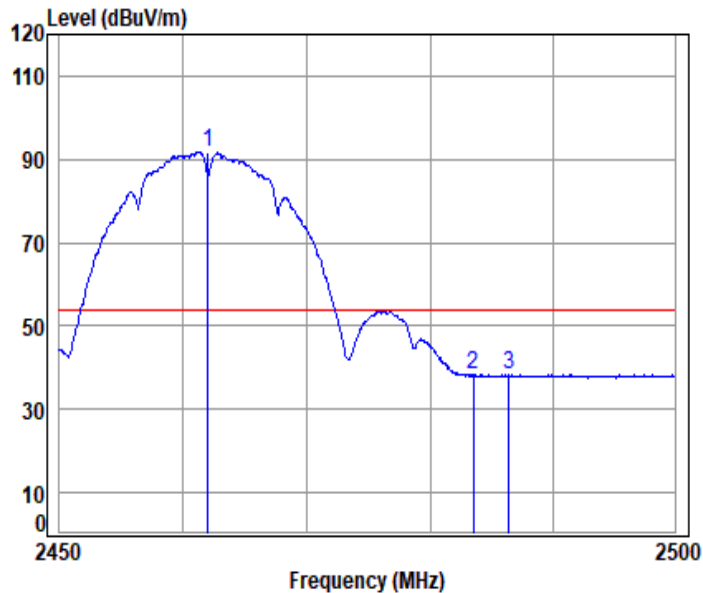
Mode : 2462 Band edge

: 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 pp	2462.000	7.25	27.67	30.70	91.49	95.71	74.00	21.71 peak
2	2483.500	7.40	27.80	30.71	44.70	49.19	74.00	-24.81 peak
3	2492.335	7.46	27.85	30.71	47.32	51.92	74.00	-22.08 peak



11b_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03778AT/03779AT

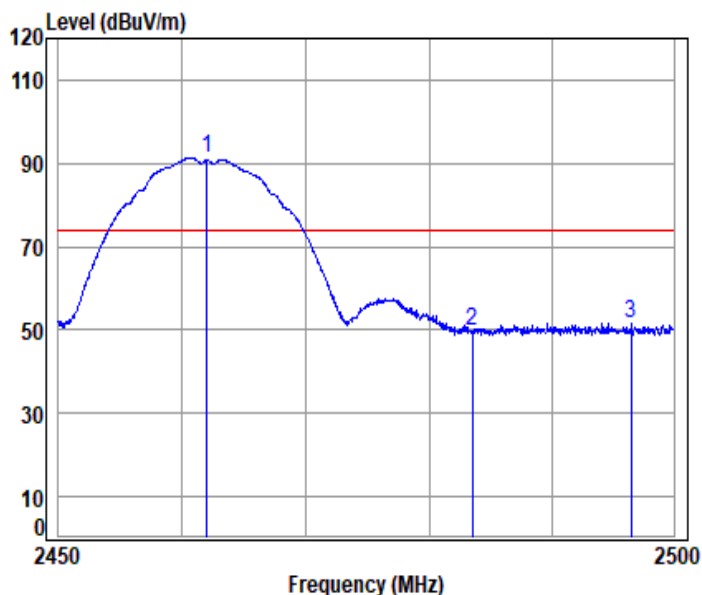
Mode : 2462 Band edge

: 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 pp	2462.000	7.25	27.67	30.70	87.53	91.75	54.00	37.75 Average
2	2483.500	7.40	27.80	30.71	33.77	38.26	54.00	-15.74 Average
3	2486.450	7.42	27.82	30.71	33.85	38.38	54.00	-15.62 Average



11b_TX_CH_11_Verical-Peak



Condition: 3m VERTICAL

Job No : 03778AT/03779AT

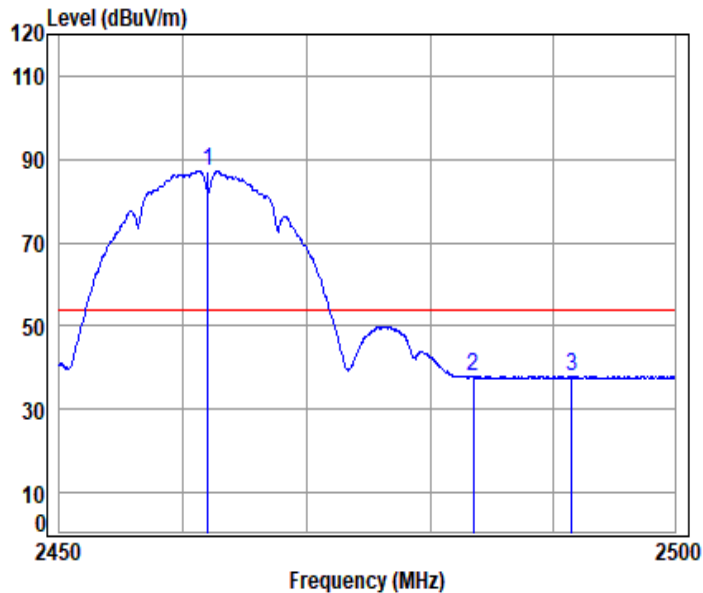
Mode : 2462 Band edge

: 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 pp	2462.000	7.25	27.67	30.70	87.02	91.24	74.00	17.24 peak
2	2483.500	7.40	27.80	30.71	45.16	49.65	74.00	-24.35 peak
3	2496.467	7.49	27.88	30.71	47.00	51.66	74.00	-22.34 peak



11b_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL

Job No : 03778AT/03779AT

Mode : 2462 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 pp	2462.000	7.25	27.67	30.70	83.12	87.34	54.00	33.34 Average
2	2483.500	7.40	27.80	30.71	33.32	37.81	54.00	-16.19 Average
3	2491.529	7.45	27.85	30.71	33.34	37.93	54.00	-16.07 Average



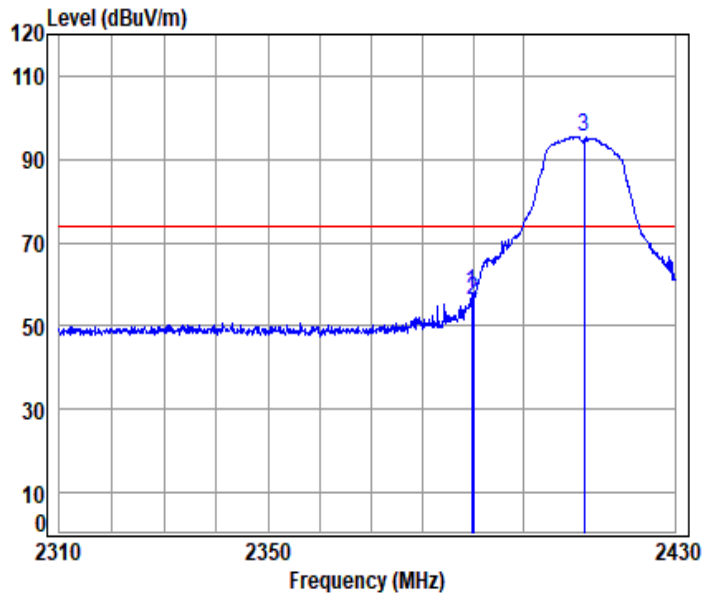
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11g_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03778AT/03779AT

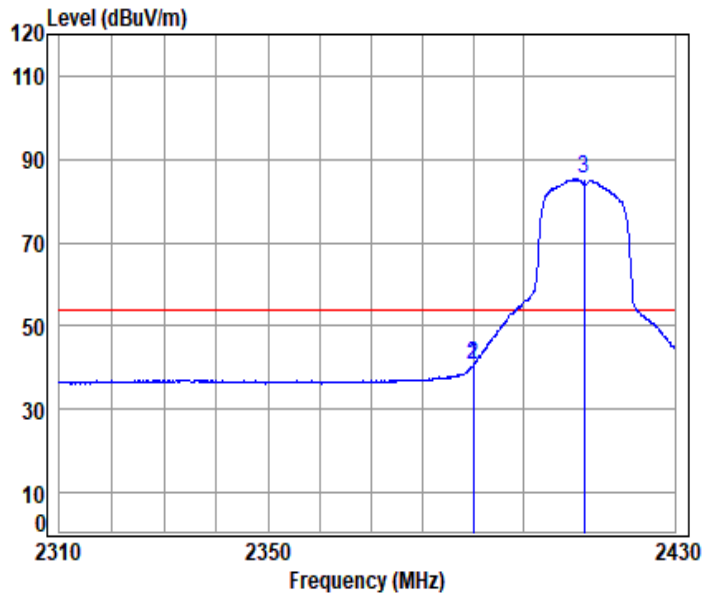
Mode : 2412 Band edge

: 2.4G Wi-Fi 11g

		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	2389.726	6.82	27.46	30.69	54.30	57.89	74.00	-16.11	peak
2	2390.000	6.83	27.46	30.69	52.41	56.01	74.00	-17.99	peak
3 pp	2412.000	6.91	27.52	30.69	91.66	95.40	74.00	21.40	peak



11g_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03778AT/03779AT

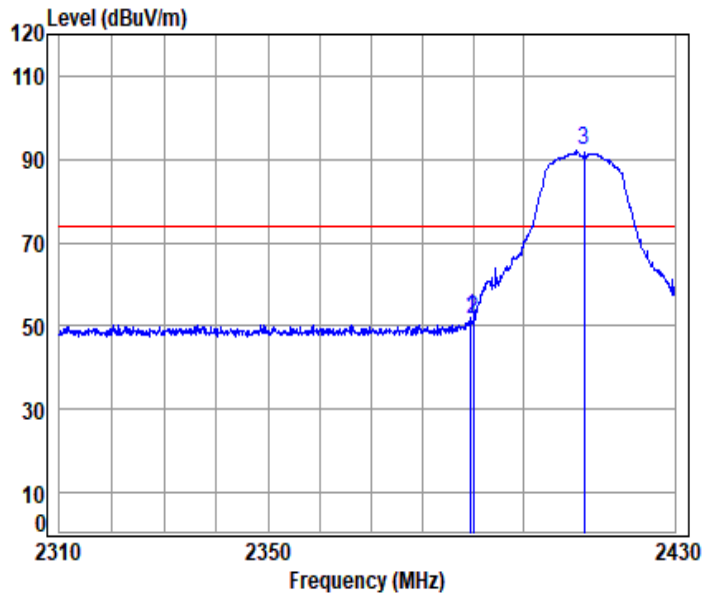
Mode : 2412 Band edge

: 2.4G Wi-Fi 11g

		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	2389.968	6.83	27.46	30.69	37.18	40.78	54.00	-13.22	Average
2	2390.000	6.83	27.46	30.69	37.18	40.78	54.00	-13.22	Average
3	2412.000	6.91	27.52	30.69	81.49	85.23	54.00	31.23	Average



11g_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03778AT/03779AT

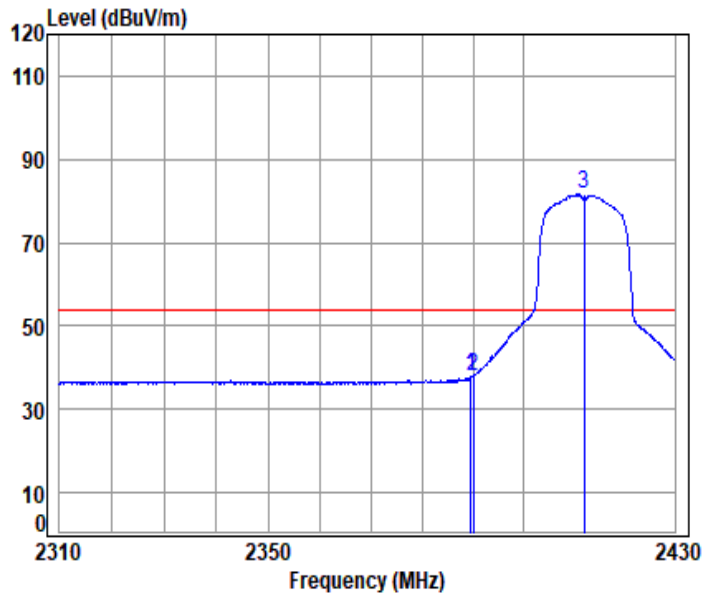
Mode : 2412 Band edge

: 2.4G Wi-Fi 11g

		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	2389.605	6.82	27.46	30.69	48.40	51.99	74.00	-22.01 peak
2	2390.000	6.83	27.46	30.69	47.79	51.39	74.00	-22.61 peak
3 pp	2412.000	6.91	27.52	30.69	88.26	92.00	74.00	18.00 peak



11g_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL

Job No : 03778AT/03779AT

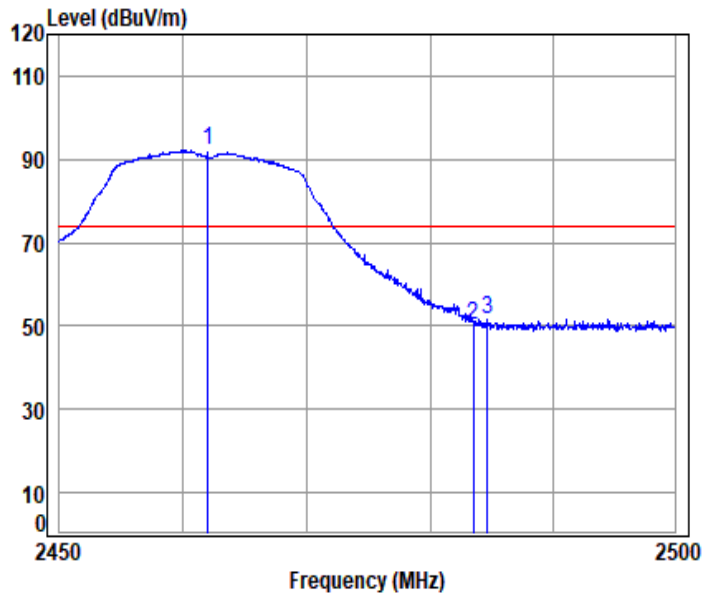
Mode : 2412 Band edge

: 2.4G Wi-Fi 11g

		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	2389.605	6.82	27.46	30.69	34.43	38.02	54.00	-15.98 Average
2	2390.000	6.83	27.46	30.69	34.24	37.84	54.00	-16.16 Average
3	2412.000	6.91	27.52	30.69	77.80	81.54	54.00	27.54 Average



11g_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03778AT/03779AT

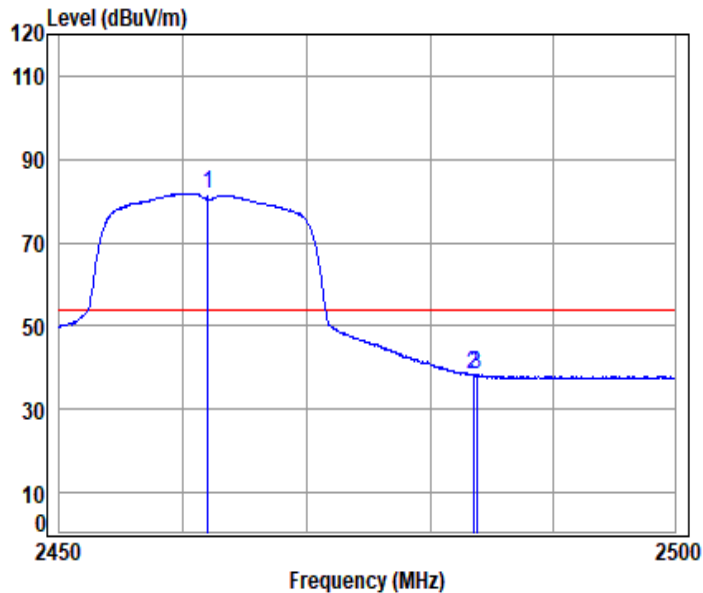
Mode : 2462 Band edge

: 2.4G Wi-Fi 11g

		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 pp	2462.000	7.25	27.67	30.70	87.88	92.10	74.00	18.10 peak
2	2483.500	7.40	27.80	30.71	45.91	50.40	74.00	-23.60 peak
3	2484.643	7.41	27.81	30.71	47.10	51.61	74.00	-22.39 peak



11g_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03778AT/03779AT

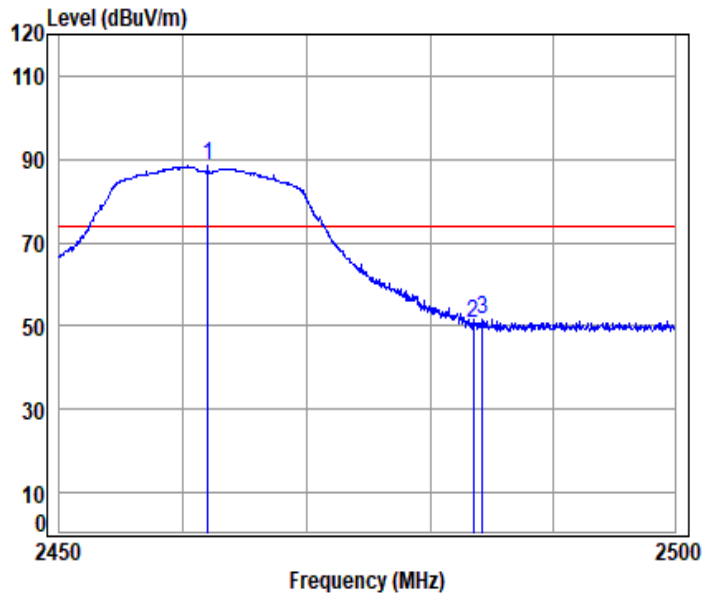
Mode : 2462 Band edge

: 2.4G Wi-Fi 11g

		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 pp	2462.000	7.25	27.67	30.70	77.63	81.85	54.00	27.85 Average
2	2483.500	7.40	27.80	30.71	33.63	38.12	54.00	-15.88 Average
3	2483.790	7.40	27.80	30.71	33.92	38.41	54.00	-15.59 Average



11g_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03778AT/03779AT

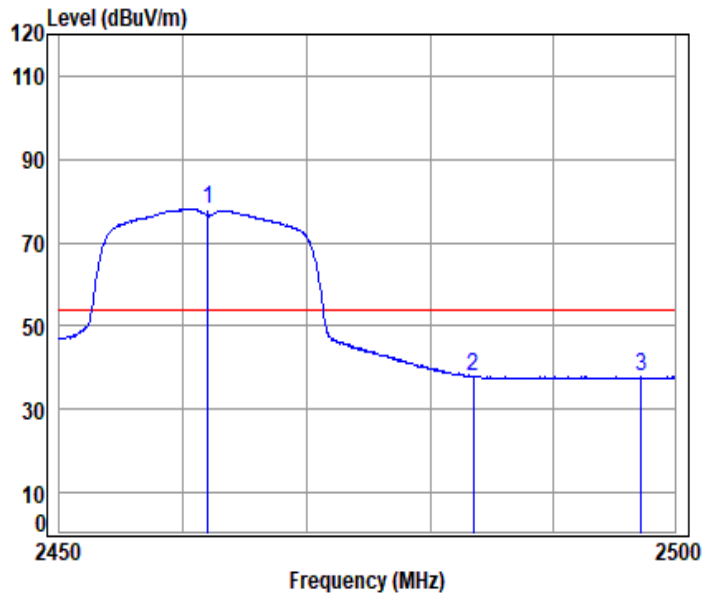
Mode : 2462 Band edge

: 2.4G Wi-Fi 11g

		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 pp	2462.000	7.25	27.67	30.70	84.36	88.58	74.00	14.58 peak
2	2483.500	7.40	27.80	30.71	46.27	50.76	74.00	-23.24 peak
3	2484.292	7.41	27.81	30.71	47.28	51.79	74.00	-22.21 peak



11g_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL

Job No : 03778AT/03779AT

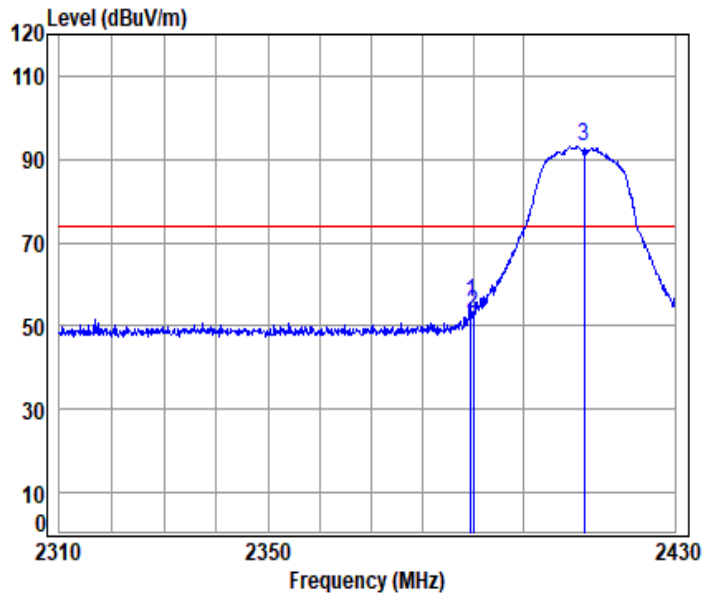
Mode : 2462 Band edge

: 2.4G Wi-Fi 11g

		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 pp	2462.000	7.25	27.67	30.70	73.89	78.11	54.00	24.11 Average
2	2483.500	7.40	27.80	30.71	33.40	37.89	54.00	-16.11 Average
3	2497.224	7.49	27.88	30.71	33.20	37.86	54.00	-16.14 Average



11n_HT(20M)_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03778AT/03779AT

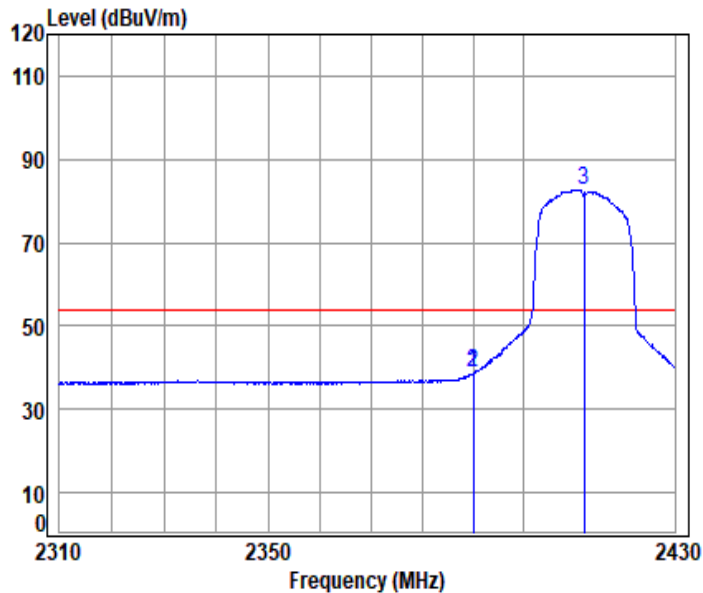
Mode : 2412 Band edge

: 2.4G Wi-Fi 11n20

		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	2389.605	6.82	27.46	30.69	51.86	55.45	74.00	-18.55 peak
2	2390.000	6.83	27.46	30.69	49.36	52.96	74.00	-21.04 peak
3	2412.000	6.91	27.52	30.69	89.44	93.18	74.00	19.18 peak



11n_HT(20M)_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03778AT/03779AT

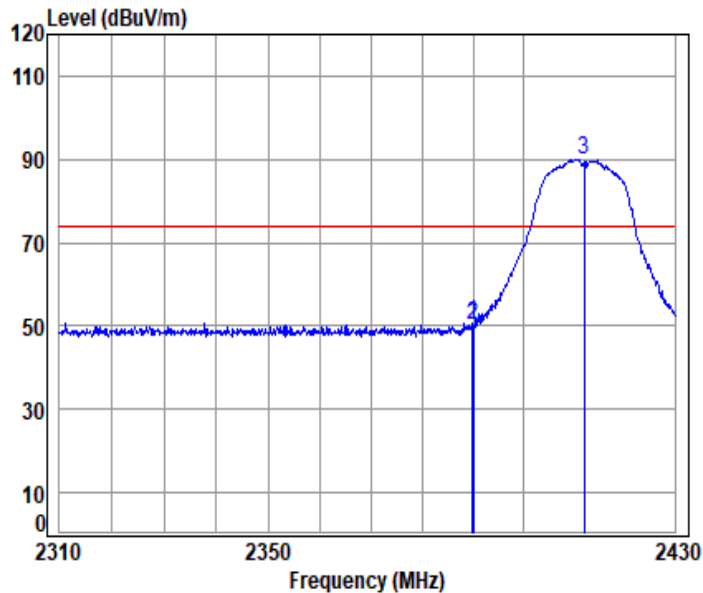
Mode : 2412 Band edge

: 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	2389.968	6.83	27.46	30.69	35.01	38.61	54.00	-15.39	Average
2	2390.000	6.83	27.46	30.69	35.01	38.61	54.00	-15.39	Average
3	2412.000	6.91	27.52	30.69	79.00	82.74	54.00	28.74	Average



11n_HT(20M)_TX_CH_01_Verical-Peak



Condition: 3m VERTICAL

Job No : 03778AT/03779AT

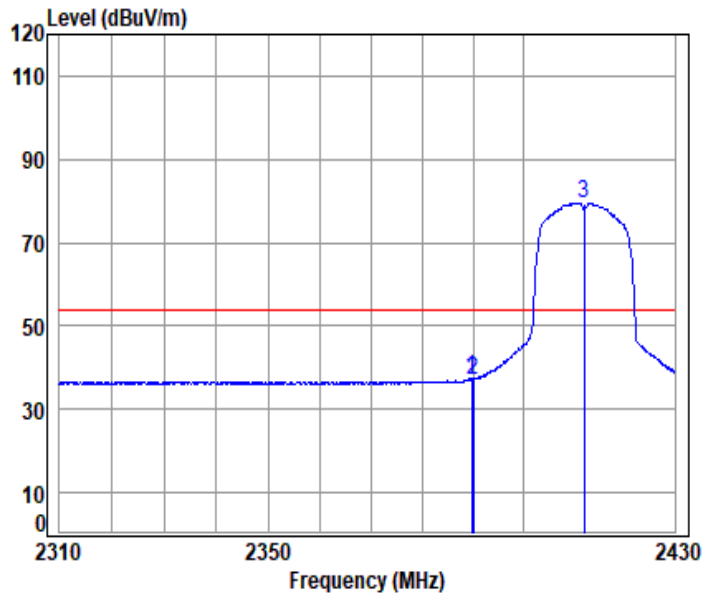
Mode : 2412 Band edge

: 2.4G Wi-Fi 11n20

	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	2389.847	6.83	27.46	30.69	47.19	50.79	74.00 -23.21 peak
2	2390.000	6.83	27.46	30.69	46.49	50.09	74.00 -23.91 peak
3	2412.000	6.91	27.52	30.69	86.24	89.98	74.00 15.98 peak



11n_HT(20M)_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL

Job No : 03778AT/03779AT

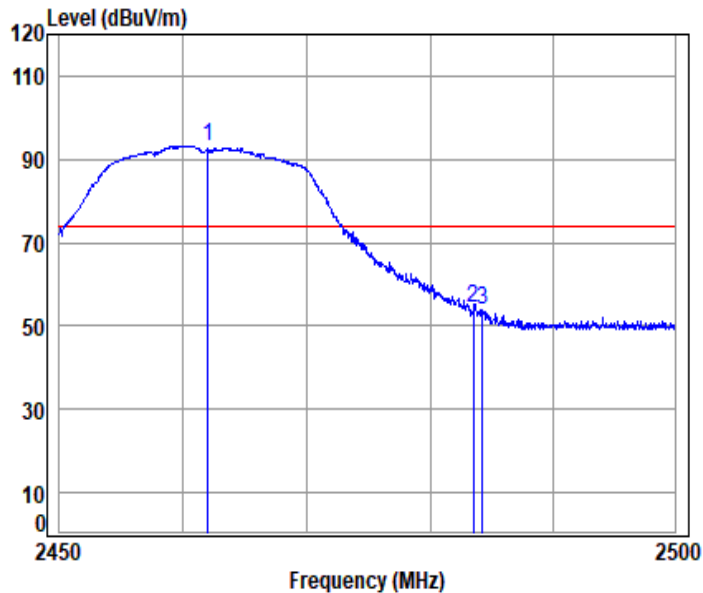
Mode : 2412 Band edge

: 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	2389.726	6.82	27.46	30.69	33.68	37.27	54.00	-16.73	Average
2	2390.000	6.83	27.46	30.69	33.41	37.01	54.00	-16.99	Average
3	2412.000	6.91	27.52	30.69	75.78	79.52	54.00	25.52	Average



11n_HT(20M)_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03778AT/03779AT

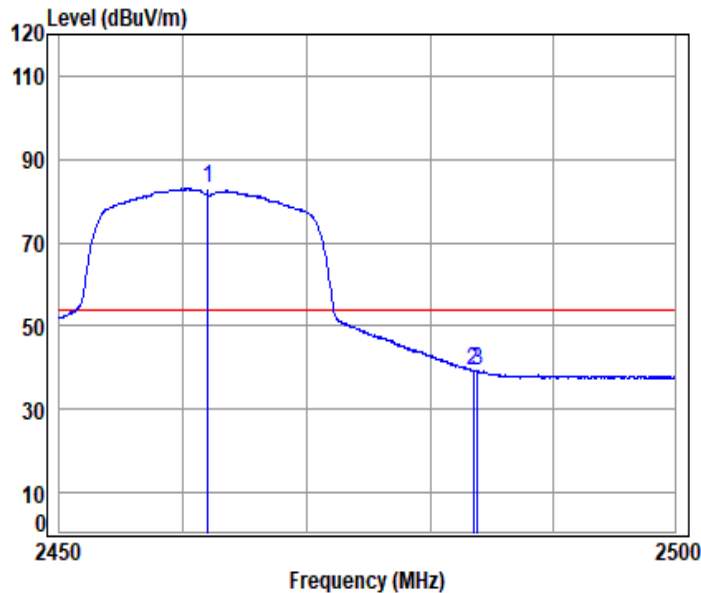
Mode : 2462 Band edge

: 2.4G Wi-Fi 11n20

		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 pp	2462.000	7.25	27.67	30.70	89.01	93.23	74.00	19.23 peak
2	2483.500	7.40	27.80	30.71	49.99	54.48	74.00	-19.52 peak
3	2484.292	7.41	27.81	30.71	49.54	54.05	74.00	-19.95 peak



11n_HT(20M)_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03778AT/03779AT

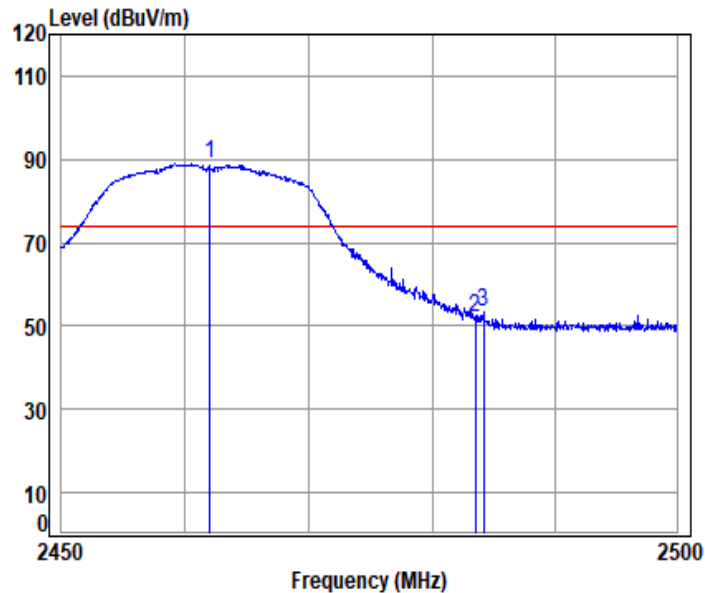
Mode : 2462 Band edge

: 2.4G Wi-Fi 11n20

		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 pp	2462.000	7.25	27.67	30.70	78.73	82.95	54.00	28.95 Average
2	2483.500	7.40	27.80	30.71	34.93	39.42	54.00	-14.58 Average
3	2483.840	7.40	27.80	30.71	34.72	39.21	54.00	-14.79 Average



11n_HT(20M)_TX_CH_11_Verical-Peak



Condition: 3m VERTICAL

Job No : 03778AT/03779AT

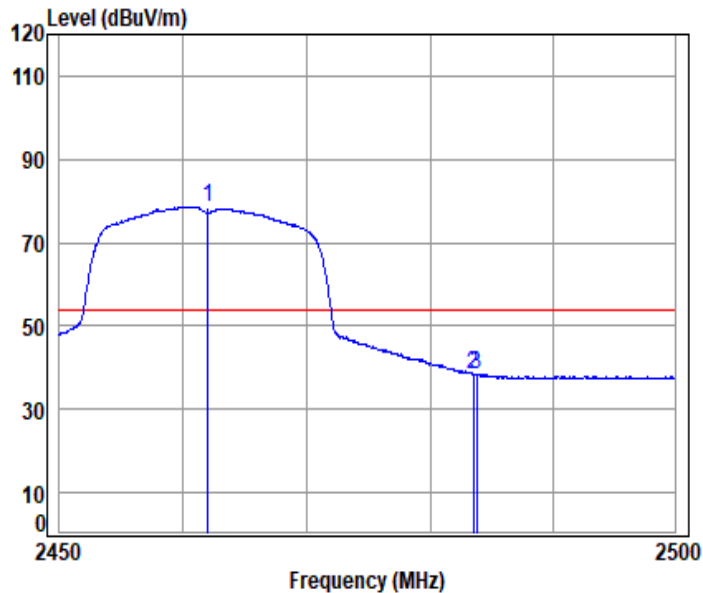
Mode : 2462 Band edge

: 2.4G Wi-Fi 11n20

		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 pp	2462.000	7.25	27.67	30.70	84.65	88.87	74.00	14.87 peak
2	2483.500	7.40	27.80	30.71	47.42	51.91	74.00	-22.09 peak
3	2484.191	7.40	27.81	30.71	49.08	53.58	74.00	-20.42 peak



11n_HT(20M)_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL

Job No : 03778AT/03779AT

Mode : 2462 Band edge

: 2.4G Wi-Fi 11n20

		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 pp	2462.000	7.25	27.67	30.70	74.37	78.59	54.00	24.59 Average
2	2483.500	7.40	27.80	30.71	33.95	38.44	54.00	-15.56 Average
3	2483.790	7.40	27.80	30.71	34.01	38.50	54.00	-15.50 Average



6.2 Radiated Spurious Emissions Below 1GHz

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

Test Method: ANSI C63.10 (2020) Section 6.4,6.5

Measurement Distance: 3m

Limit:

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

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C

Humidity: 45.6 % RH

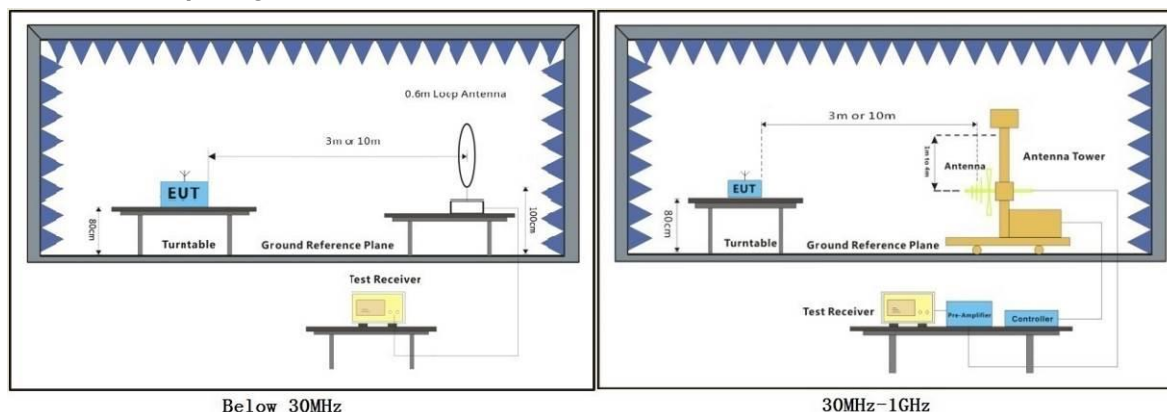
Atmospheric Pressure: 1020 mbar

6.2.2 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); final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



6.2.3 Test Setup Diagram



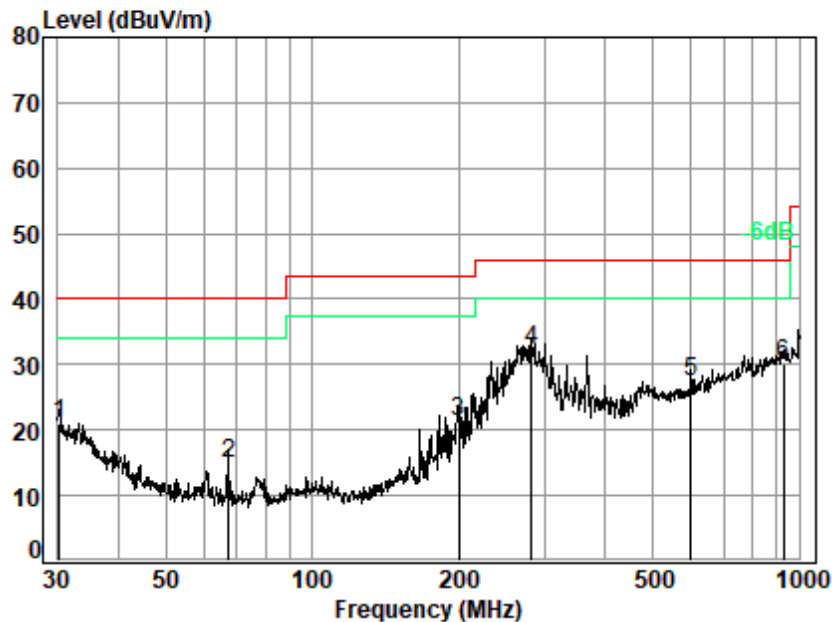
6.2.4 Measurement Procedure and Data

- 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.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- 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:

- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

Test Mode: 00; Polarity: Horizontal

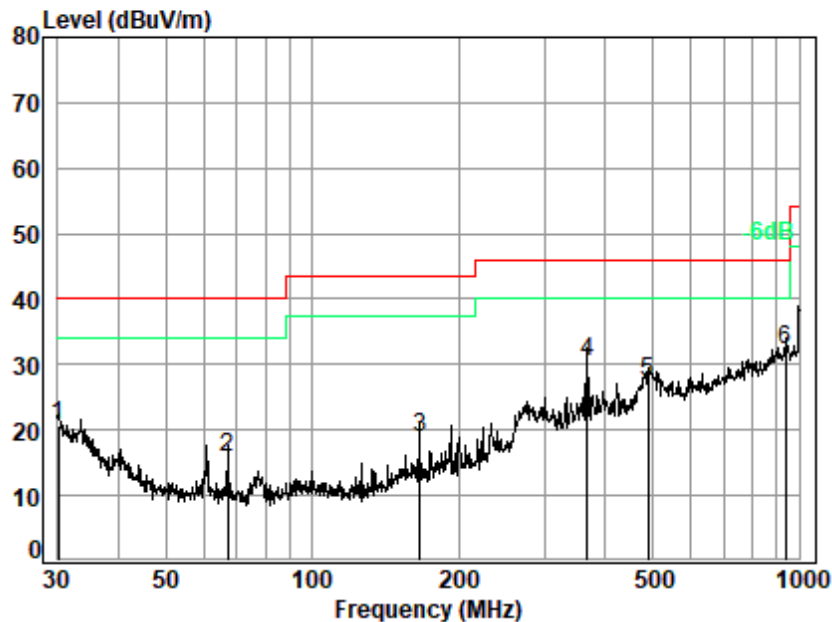


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 03778AT
Test Mode: 00

	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	30.211	21.10	0.74	27.65	26.81	21.00	40.00	-19.00 QP
2	67.202	10.79	0.96	27.62	30.78	14.91	40.00	-25.09 QP
3	199.986	14.10	1.70	27.80	33.44	21.44	43.50	-22.06 QP
4 q	281.995	16.91	2.05	27.55	40.81	32.22	46.00	-13.78 QP
5	599.321	24.42	3.10	28.10	27.87	27.29	46.00	-18.71 QP
6	929.008	28.16	4.04	26.80	24.83	30.23	46.00	-15.77 QP



Test Mode: 00; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 03778AT
Test Mode: 00

	Ant Freq	Cable Factor	Preamp Loss	Read Factor	Level dBuV	Limit dBuV/m	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dB	
1	30.105	21.15	0.74	27.65	26.32	20.56	40.00	-19.44 QP
2	66.967	10.81	0.96	27.62	31.58	15.73	40.00	-24.27 QP
3	166.068	13.16	1.57	27.75	31.94	18.92	43.50	-24.58 QP
4	366.823	20.35	2.38	27.67	35.40	30.46	46.00	-15.54 QP
5	489.027	22.85	2.78	27.92	29.69	27.40	46.00	-18.60 QP
6 q	938.833	28.15	4.06	26.74	26.67	32.14	46.00	-13.86 QP



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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

6.3 Radiated Spurious Emissions Above 1GHz

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

Test Method: ANSI C63.10 (2020) Section 6.6

Measurement Distance: 3m

Limit:

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

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C

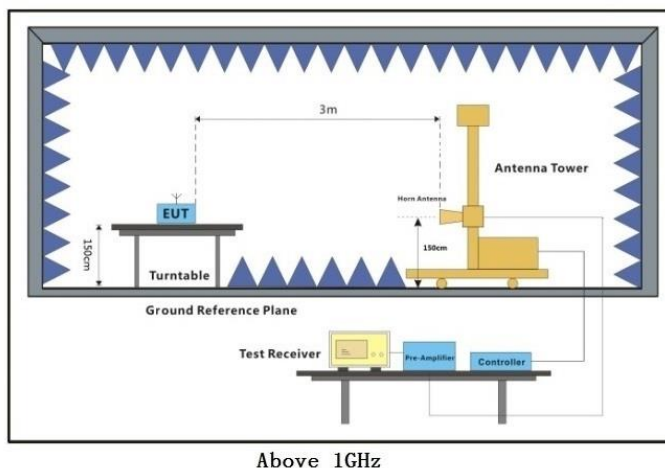
Humidity: 50.9 % RH

Atmospheric Pressure: 1020 mbar

6.3.2 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); final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

6.3.3 Test Setup Diagram



6.3.4 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.

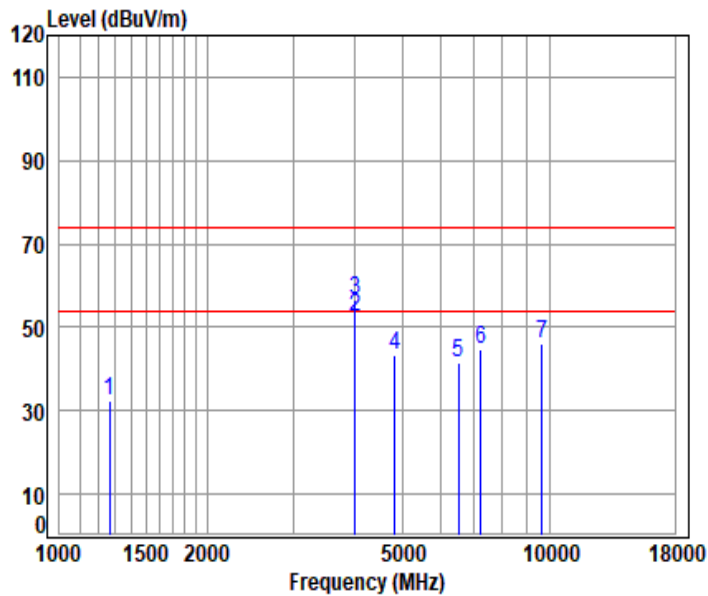
Remark:

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<98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



Test Mode: 2.4G; Bandwidth:160MHz; Channel:144

11b_TX_CH_01_Horizontal



Condition: 3m HORIZONTAL

Job No : 03778AT/03779AT

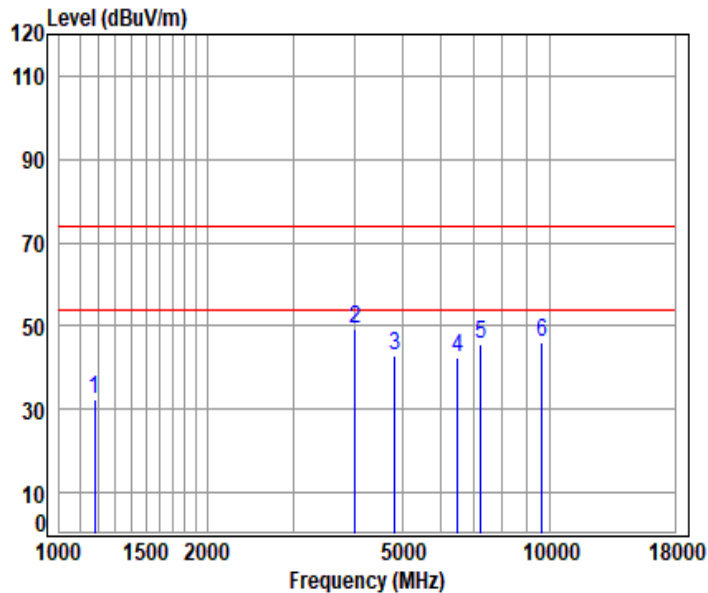
Mode : 2412 TX RSE

: 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	1263.796	7.16	25.27	54.77	54.70	32.36	74.00	-41.64	peak
2	4015.929	8.16	30.23	55.01	69.28	52.66	54.00	-1.34	Average
3	4015.929	8.16	30.23	55.01	73.20	56.58	74.00	-17.42	peak
4	4824.000	8.92	32.00	55.42	57.92	43.42	74.00	-30.58	peak
5	6526.373	10.72	34.95	56.39	52.18	41.46	74.00	-32.54	Peak
6	7236.000	11.10	36.60	56.73	53.59	44.56	74.00	-29.44	peak
7	9648.000	12.49	38.70	55.91	50.64	45.92	74.00	-28.08	peak



11b_TX_CH_01_Vertical



Condition: 3m VERTICAL

Job No : 03778AT/03779AT

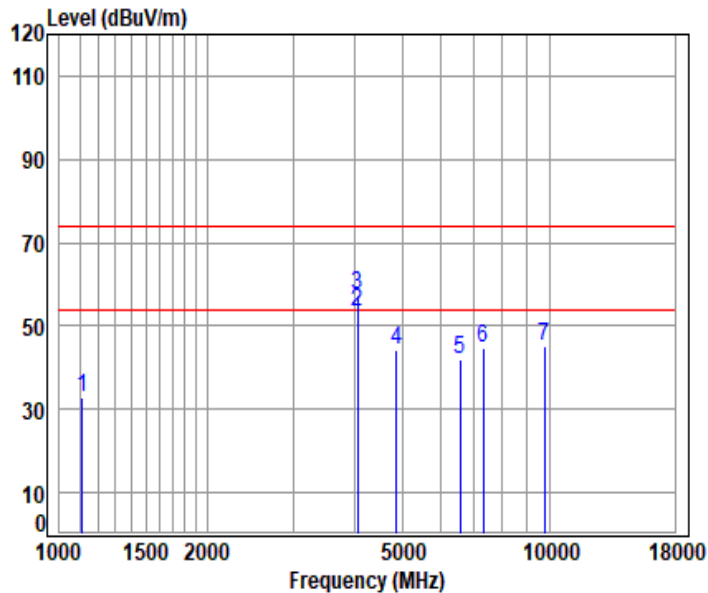
Mode : 2412 TX RSE

: 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	1179.100	7.17	25.34	54.78	54.56	32.29	74.00	-41.71 peak
2	4015.929	8.16	30.23	55.01	65.82	49.20	74.00	-24.80 peak
3	4824.000	8.92	32.00	55.42	57.49	42.99	74.00	-31.01 peak
4	6488.754	10.64	34.88	56.36	53.45	42.61	74.00	-31.39 Peak
5	7236.000	11.10	36.60	56.73	54.48	45.45	74.00	-28.55 peak
6	9648.000	12.49	38.70	55.91	50.64	45.92	74.00	-28.08 peak



11b_TX_CH_06_Horizontal



Condition: 3m HORIZONTAL

Job No : 03778AT/03779AT

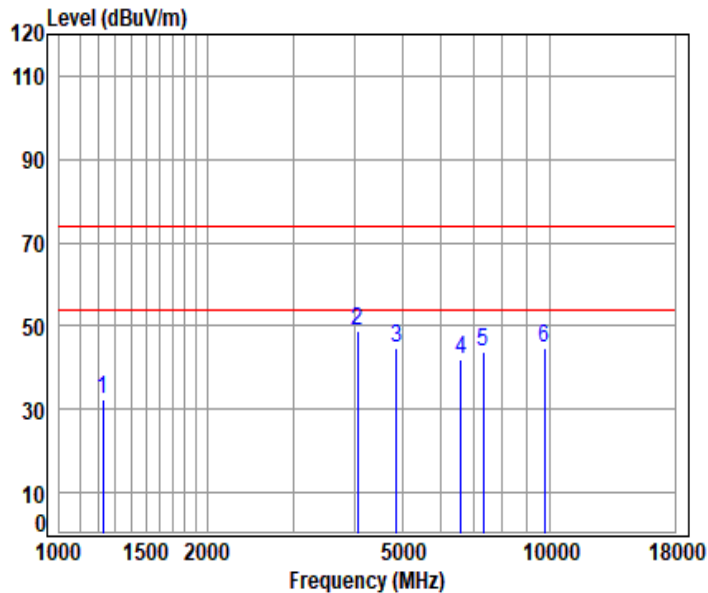
Mode : 2437 TX RSE

: 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	1112.872	7.11	25.55	54.78	55.12	33.00	74.00	-41.00	peak
2	4062.629	8.27	30.33	55.03	70.02	53.59	54.00	-0.41	Average
3	4062.629	8.27	30.33	55.03	74.14	57.71	74.00	-16.29	peak
4	4874.000	8.97	32.15	55.44	58.73	44.41	74.00	-29.59	peak
5	6564.209	10.80	35.06	56.42	52.39	41.83	74.00	-32.17	Peak
6	7311.000	11.11	36.72	56.70	53.76	44.89	74.00	-29.11	peak
7	9748.000	12.80	38.60	55.88	49.45	44.97	74.00	-29.03	peak



11b_TX_CH_06_Vertical



Condition: 3m VERTICAL

Job No : 03778AT/03779AT

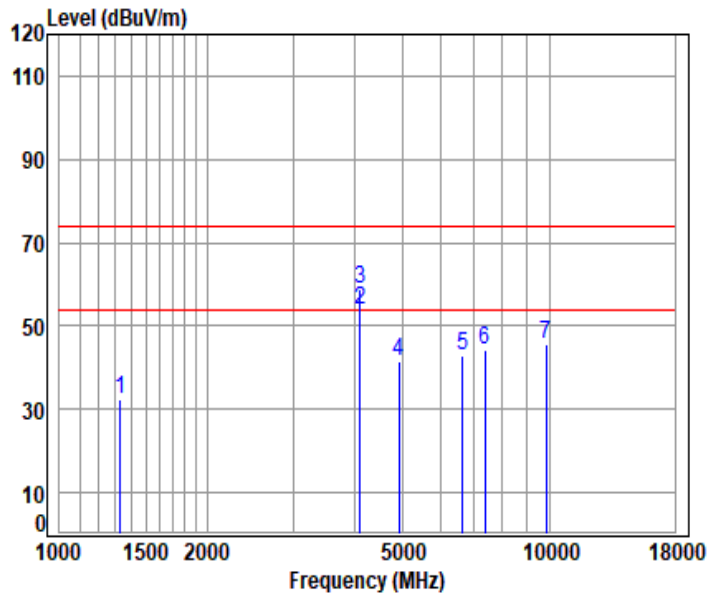
Mode : 2437 TX RSE

: 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	1227.791	7.18	25.30	54.77	54.73	32.44	74.00	-41.56	peak
2	4062.629	8.27	30.33	55.03	65.09	48.66	74.00	-25.34	peak
3	4874.000	8.97	32.15	55.44	59.08	44.76	74.00	-29.24	peak
4	6602.265	10.88	35.21	56.46	52.45	42.08	74.00	-31.92	Peak
5	7311.000	11.11	36.72	56.70	52.89	44.02	74.00	-29.98	peak
6	9748.000	12.80	38.60	55.88	49.05	44.57	74.00	-29.43	peak



11b_TX_CH_11_Horizontal



Condition: 3m HORIZONTAL

Job No : 03778AT/03779AT

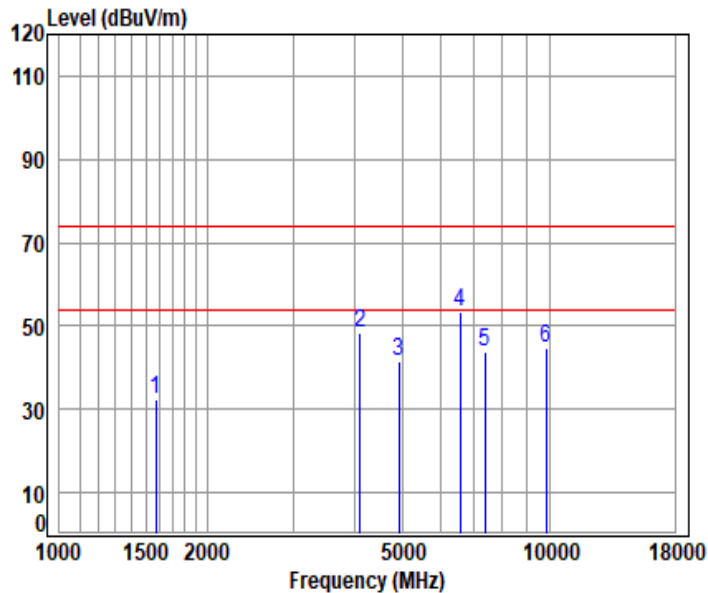
Mode : 2462 TX RSE

: 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	1331.288	7.17	25.14	54.76	54.86	32.41	74.00	-41.59	peak
2	4109.872	8.37	30.42	55.06	70.17	53.90	54.00	-0.10	Average
3	4109.872	8.37	30.42	55.06	74.90	58.63	74.00	-15.37	peak
4	4924.000	9.03	32.20	55.47	55.59	41.35	74.00	-32.65	peak
5	6640.542	10.85	35.44	56.49	53.23	43.03	74.00	-30.97	Peak
6	7386.000	11.19	36.73	56.68	52.84	44.08	74.00	-29.92	peak
7	9848.000	12.84	37.83	55.85	50.98	45.80	74.00	-28.20	peak



11b_TX_CH_11_Vertical



Condition: 3m VERTICAL

Job No : 03778AT/03779AT

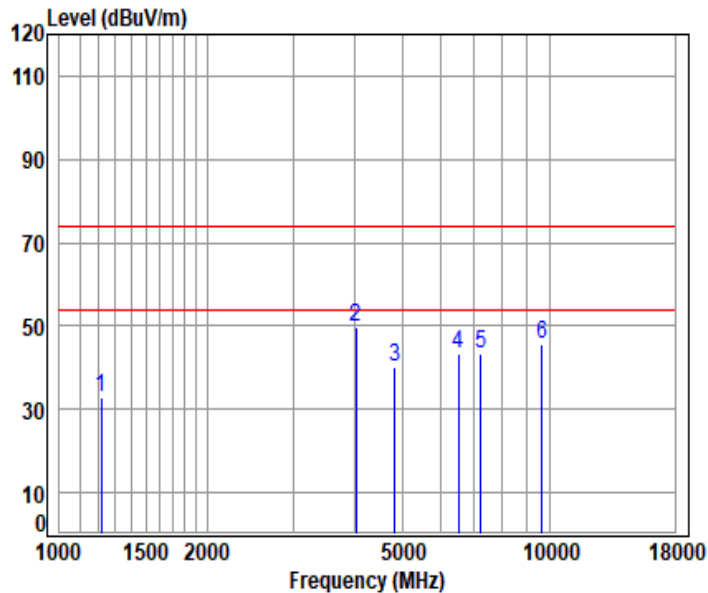
Mode : 2462 TX RSE

: 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	1574.265	7.13	25.05	54.73	54.82	32.27	74.00	-41.73 peak
2	4098.010	8.36	30.40	55.05	64.62	48.33	74.00	-25.67 peak
3	4924.000	9.03	32.20	55.47	55.94	41.70	74.00	-32.30 peak
4	6564.209	10.80	35.06	56.42	64.10	53.54	74.00	-20.46 peak
5	7386.000	11.19	36.73	56.68	52.71	43.95	74.00	-30.05 peak
6	9848.000	12.84	37.83	55.85	49.97	44.79	74.00	-29.21 peak



11n_20M_TX_CH_01_Horizontal



Condition: 3m HORIZONTAL

Job No : 03778AT/03779AT

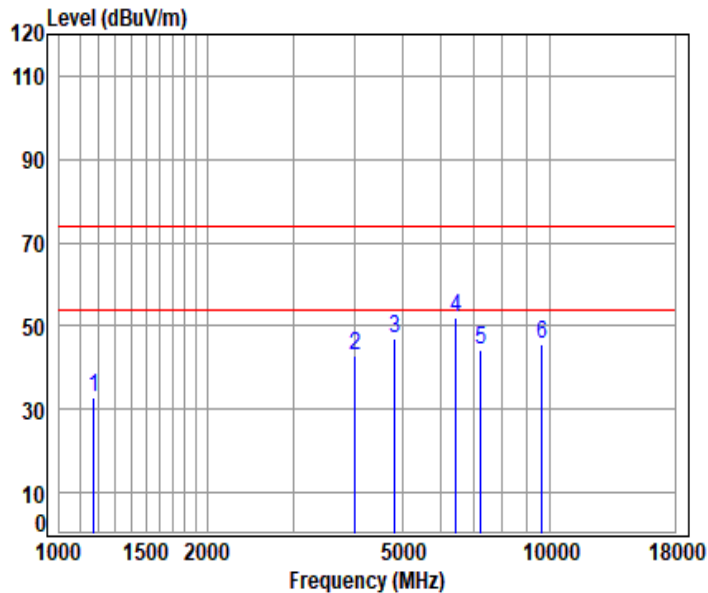
Mode : 2412 TX RSE

: 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	1217.190	7.18	25.30	54.77	54.99	32.70	74.00	-41.30	peak
2	4027.554	8.19	30.26	55.02	66.09	49.52	74.00	-24.48	peak
3	4824.000	8.92	32.00	55.42	54.80	40.30	74.00	-33.70	peak
4	6526.373	10.72	34.95	56.39	53.88	43.16	74.00	-30.84	Peak
5	7236.000	11.10	36.60	56.73	52.15	43.12	74.00	-30.88	peak
6	9648.000	12.49	38.70	55.91	50.28	45.56	74.00	-28.44	peak



11n_20M_TX_CH_01_Vertical



Condition: 3m VERTICAL

Job No : 03778AT/03779AT

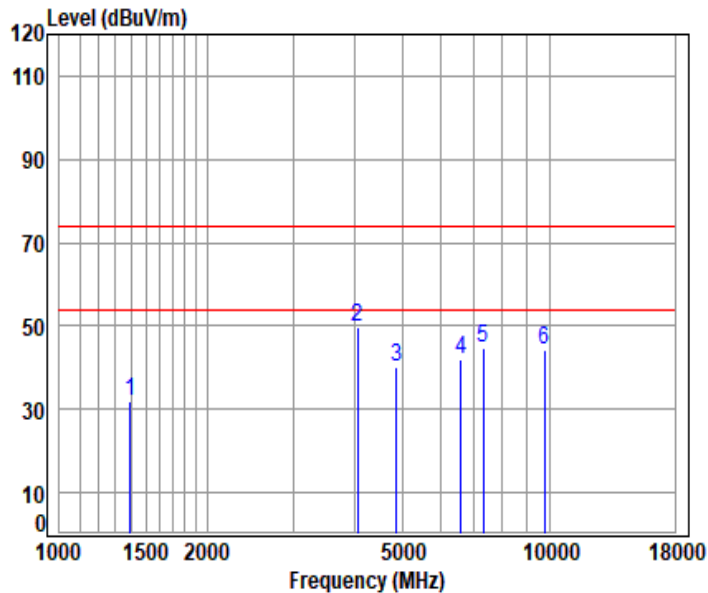
Mode : 2412 TX RSE

: 2.4G Wi-Fi 11n20

	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	1175.697	7.17	25.35	54.78	55.05	32.79	74.00 -41.21 peak
2	4015.929	8.16	30.23	55.01	59.52	42.90	74.00 -31.10 peak
3	4824.000	8.92	32.00	55.42	61.48	46.98	74.00 -27.02 peak
4	6432.732	10.56	34.80	56.31	63.16	52.21	74.00 -21.79 peak
5	7236.000	11.10	36.60	56.73	53.43	44.40	74.00 -29.60 peak
6	9648.000	12.49	38.70	55.91	50.13	45.41	74.00 -28.59 peak



11n_20M_TX_CH_06_Horizontal



Condition: 3m HORIZONTAL

Job No : 03778AT/03779AT

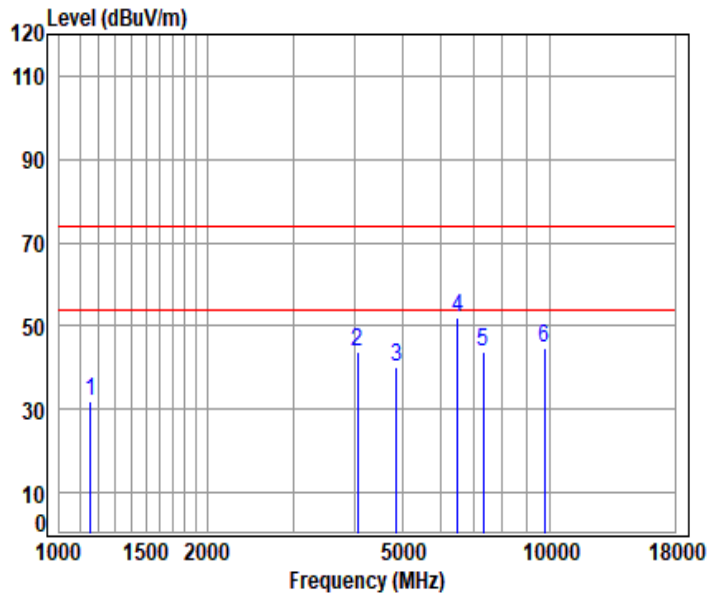
Mode : 2437 TX RSE

: 2.4G Wi-Fi 11n20

	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	1394.300	7.21	25.01	54.75	54.45	31.92	74.00 -42.08 peak
2	4062.629	8.27	30.33	55.03	66.18	49.75	74.00 -24.25 peak
3	4874.000	8.97	32.15	55.44	54.31	39.99	74.00 -34.01 peak
4	6583.209	10.84	35.13	56.44	52.60	42.13	74.00 -31.87 Peak
5	7311.000	11.11	36.72	56.70	53.52	44.65	74.00 -29.35 peak
6	9748.000	12.80	38.60	55.88	48.81	44.33	74.00 -29.67 peak



11n_20M_TX_CH_06_Vertical



Condition: 3m VERTICAL

Job No : 03778AT/03779AT

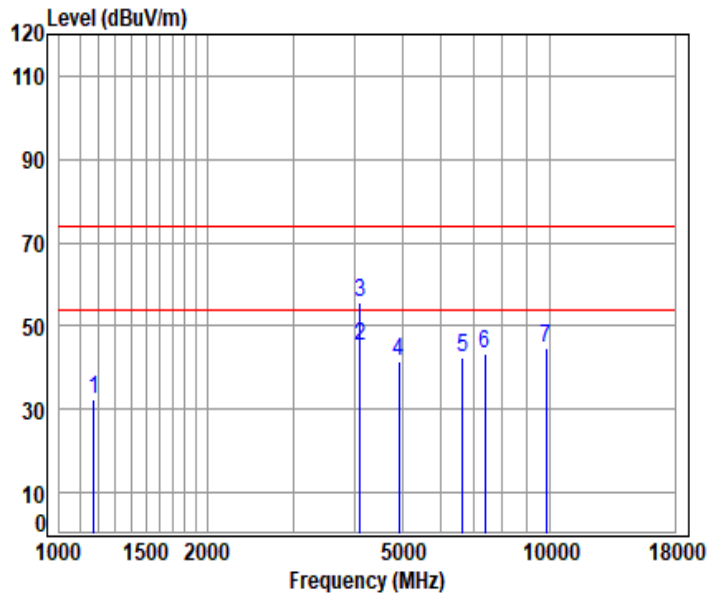
Mode : 2437 TX RSE

: 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	1158.828	7.15	25.38	54.78	54.31	32.06	74.00 -41.94 peak
2	4062.629	8.27	30.33	55.03	60.17	43.74	74.00 -30.26 peak
3	4874.000	8.97	32.15	55.44	54.39	40.07	74.00 -33.93 peak
4 pp	6488.754	10.64	34.88	56.36	63.06	52.22	74.00 -21.78 peak
5	7311.000	11.11	36.72	56.70	52.51	43.64	74.00 -30.36 peak
6	9748.000	12.80	38.60	55.88	49.34	44.86	74.00 -29.14 peak



11n_20M_TX_CH_11_Horizontal



Condition: 3m HORIZONTAL

Job No : 03778AT/03779AT

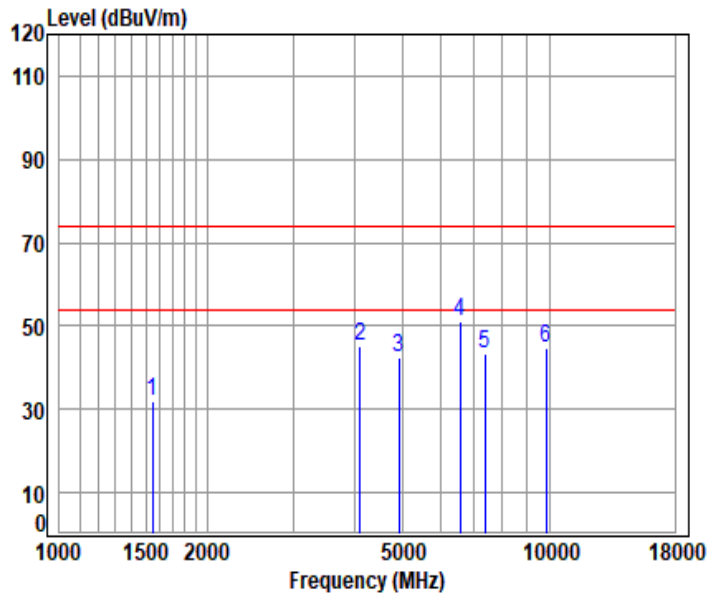
Mode : 2462 TX RSE

: 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	1175.697	7.17	25.35	54.78	54.54	32.28	74.00	-41.72	peak
2	4098.010	8.36	30.40	55.05	61.46	45.17	54.00	-8.83	Average
3	4098.010	8.36	30.40	55.05	72.07	55.78	74.00	-18.22	peak
4	4924.000	9.03	32.20	55.47	55.75	41.51	74.00	-32.49	peak
5	6640.542	10.85	35.44	56.49	52.81	42.61	74.00	-31.39	Peak
6	7386.000	11.19	36.73	56.68	51.97	43.21	74.00	-30.79	peak
7	9848.000	12.84	37.83	55.85	49.85	44.67	74.00	-29.33	peak



11n_20M_TX_CH_11_Vertical



Condition: 3m VERTICAL

Job No : 03778AT/03779AT

Mode : 2462 TX RSE

: 2.4G Wi-Fi 11n20

	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	1547.199	7.16	24.99	54.74	54.34	31.75	74.00 -42.25 peak
2	4098.010	8.36	30.40	55.05	61.33	45.04	74.00 -28.96 peak
3	4924.000	9.03	32.20	55.47	56.69	42.45	74.00 -31.55 peak
4 pp	6564.209	10.80	35.06	56.42	61.63	51.07	74.00 -22.93 peak
5	7386.000	11.19	36.73	56.68	51.89	43.13	74.00 -30.87 peak
6	9848.000	12.84	37.83	55.85	50.02	44.84	74.00 -29.16 peak



7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2508003778AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2508003778AT

- End of the Report -

