

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800366304

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TEST REPORT

Application No.: SZCR2508003663AT
Applicant: PAX Technology Limited
Address of Applicant: FLAT/RM 2504, 25/F, SUN HUNG KAI CENTRE, 30 HARBOUR ROAD, WANCHAI, HK, China
Manufacturer: PAX Computer Technology(Shenzhen) Co., Ltd.
Address of Manufacturer: Room 701, PAX Technology Building, Shanxia Community, Pinghu Sub district, Longgang District, Shenzhen, China
Equipment Under Test (EUT):
EUT Name: Smart Payment Terminal
Model No.: A800
Trade Mark: PAX
FCC ID: V5PA800
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2025-08-20
Date of Test: 2025-08-21 to 2025-08-29
Date of Issue: 2025-09-01

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

Kenx. Xu

Keny Xu
EMC Laboratory Manager



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Shenzhen Branch (EMC Laboratory)

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

Authorized for issue by:				
		Calvin Weng		
		Calvin Weng/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2020) 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
Conducted Output Power		ANSI C63.10 (2020) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass

Remark: This report is based on SZCR210502109904, to modify configuration as below:

- 1.The BOT surface RF PA chip model has been changed, but it's pin to pin compatible and remains the same function.
- 2.The CPU on the TOP side has been upgraded, with a new model and the same packaging.
- 3.New incell screen added.
- 4.Screen FPC flat cable changed.
- 5.Update antenna gain.

Therefore in this report the section 2 items were fully retested on model and shown the data in this report, other tests please refer to original report SZCR210502109904.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC7.2V by li-ion battery(2300mAh) Battery M/N:IS1099G Battery Manufacturer:ICON ENERGY SYSTEM(SHENZHEN) CO.,LTD. Recharged by AC/DC power adapter Adapter M/N: GLH-PD18W-U Adapter input: AC100-240V, 50/60Hz, 0.5A Adapter output: DC5V/3A, 9V/2A, 12V/1.5A Adapter Manufacturer: Shenzhen Sorghum red Electronic Technology Co.,Ltd.
Cable(s):	USB cable:1m unshielded cable without ferrite core
Cable Loss (for RF conducted test):	0.7dB
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (DBPSK, DQPSK, CCK); 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Number of Channels:	802.11b/g/n(HT20):11;802.11n(HT40):7
Channel Spacing:	5MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	-1.26dBi

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.
--	--	--	--

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)
Conducted Output Power	$\pm 0.75\text{dB}$
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:

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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



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

RF Conducted Test

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2025-03-04	2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2025-03-04	2026-03-03
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2025-03-04	2026-03-03
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-03	2026-03-02

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 Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

15.203 requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -1.26dBi.

Antenna location: Refer to internal photos



7 Radio Spectrum Matter Test Results

7.1 Radiated Emissions which fall in the restricted bands

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

Test Method: ANSI C63.10 (2020) Section 6.10.5

Measurement Distance: 3m

Limit:

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

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

Humidity: 52.0 % RH

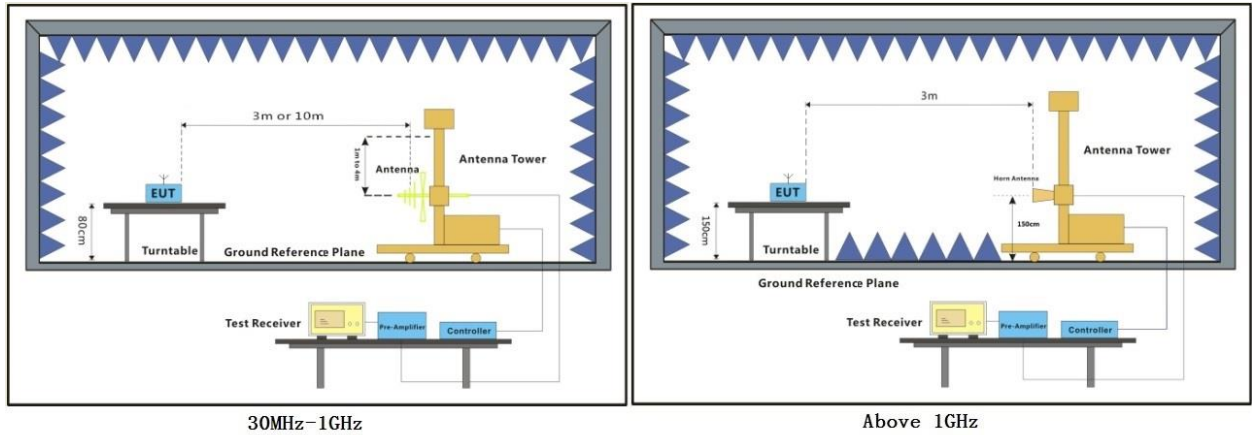
Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.



7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

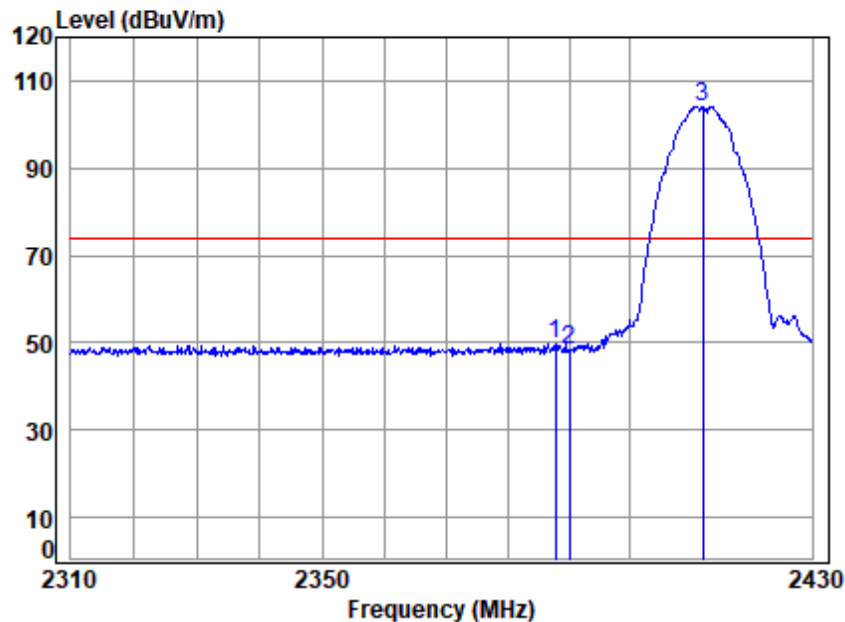
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level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

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

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



Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

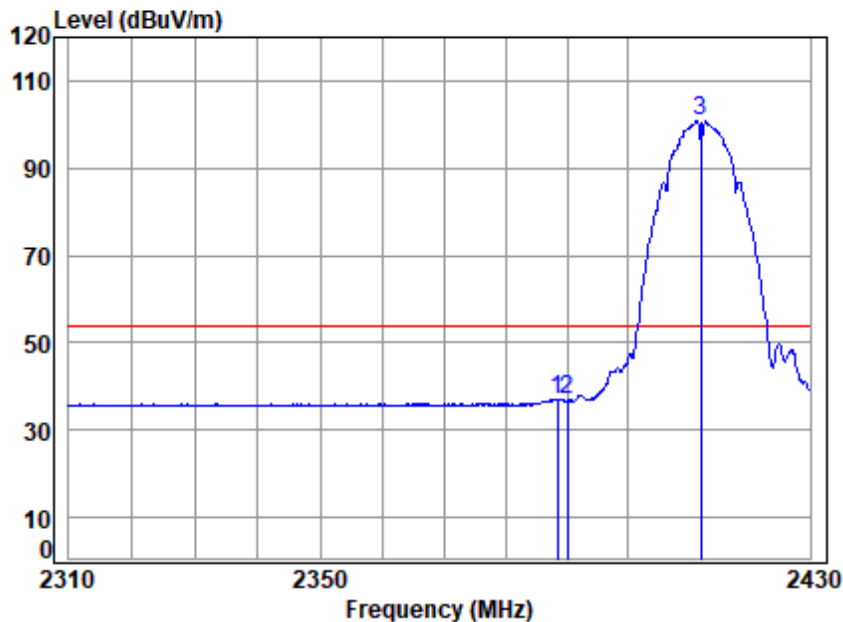
Job No : 03663AT/03664AT

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	2387.791	6.82	27.45	31.54	47.21	49.94	74.00	-24.06	peak
2	2390.000	6.83	27.46	31.54	45.67	48.42	74.00	-25.58	peak
3 pp	2412.000	6.91	27.52	31.54	101.26	104.15	74.00	30.15	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 03663AT/03664AT

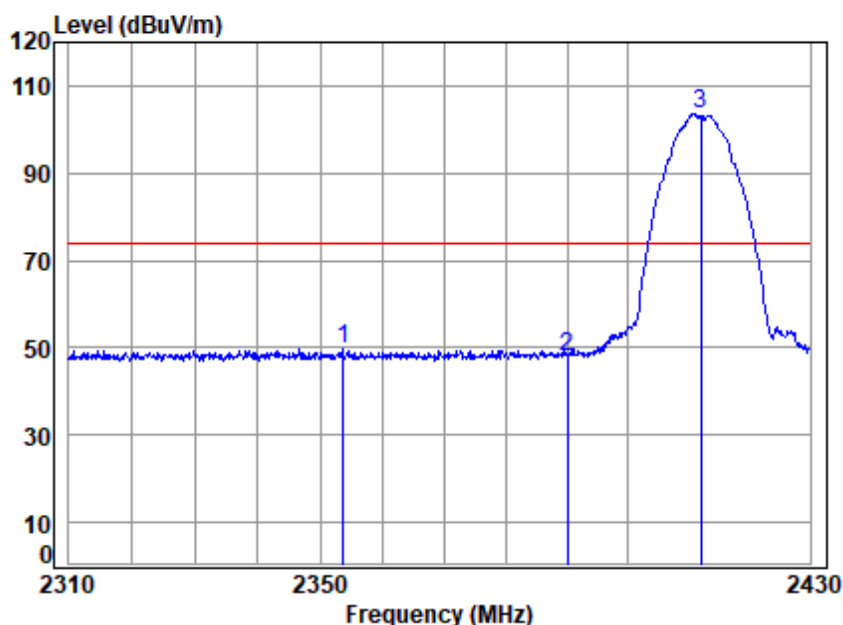
Mode : 2412 Band edge

: 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	2388.395	6.82	27.45	31.54	34.30	37.03	54.00	-16.97	Average
2	2390.000	6.83	27.46	31.54	34.00	36.75	54.00	-17.25	Average
3 pp	2412.000	6.91	27.52	31.54	97.92	100.81	54.00	46.81	Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 03663AT/03664AT

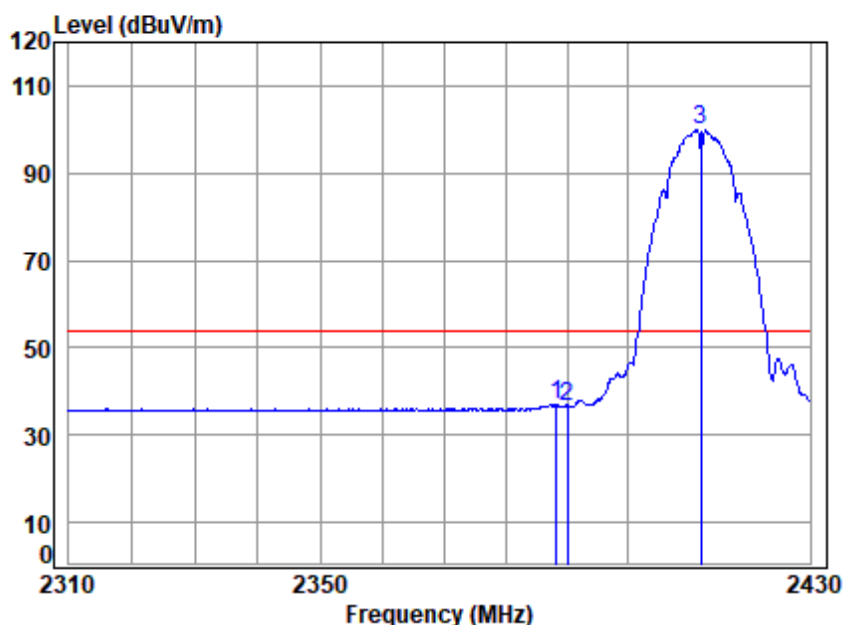
Mode : 2412 Band edge

: 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 2353.693	6.81	27.31	31.54	47.32	49.90	74.00	-24.10 Peak
2 2390.000	6.83	27.46	31.54	45.36	48.11	74.00	-25.89 Peak
3 pp 2412.000	6.91	27.52	31.54	100.60	103.49	74.00	29.49 Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 03663AT/03664AT

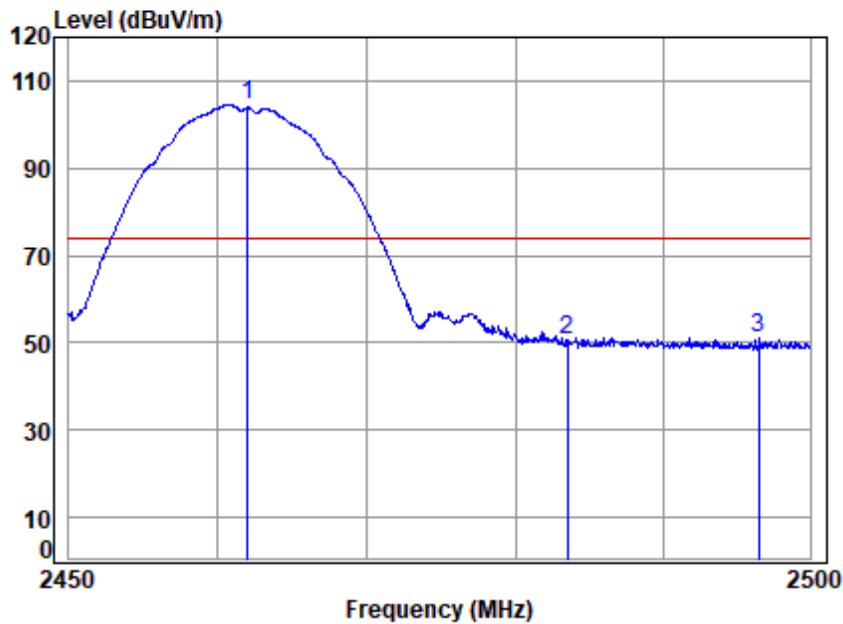
Mode : 2412 Band edge

: 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	2388.274	6.82	27.45	31.54	34.20	36.93	54.00	-17.07 Average
2	2390.000	6.83	27.46	31.54	33.84	36.59	54.00	-17.41 Average
3 pp	2412.000	6.91	27.52	31.54	97.21	100.10	54.00	46.10 Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

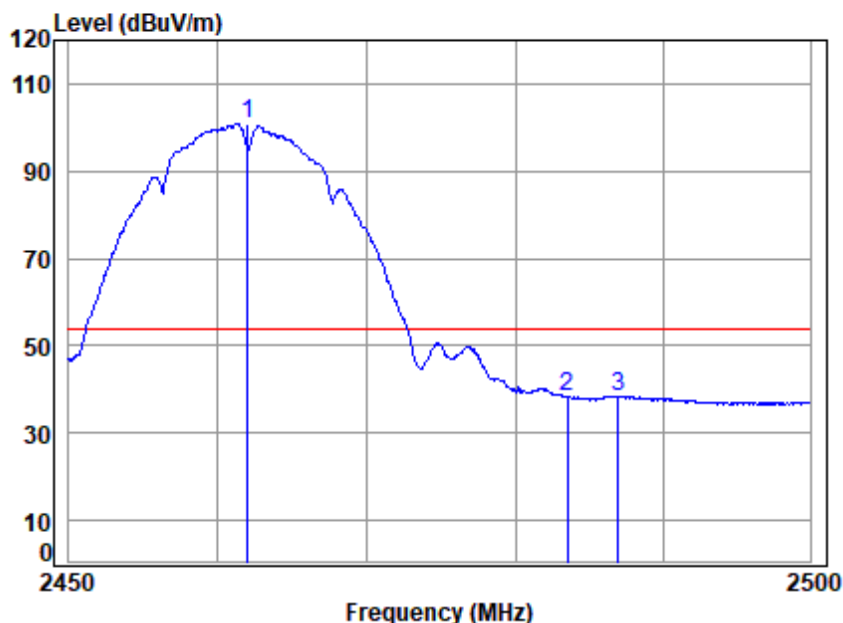
Job No : 03663AT/03664AT

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	101.09	104.46	74.00	30.46	peak
2	2483.500	7.40	27.80	31.55	47.02	50.67	74.00	-23.33	peak
3	2496.518	7.49	27.88	31.55	47.34	51.16	74.00	-22.84	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 03663AT/03664AT

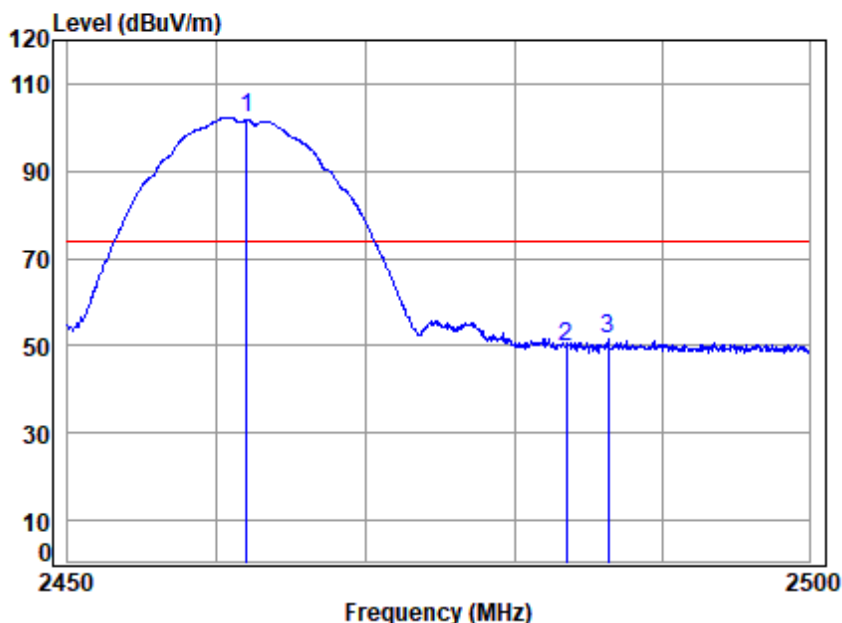
Mode : 2462 Band edge

: 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	97.47	100.84	54.00	46.84	Average
2	2483.500	7.40	27.80	31.55	34.89	38.54	54.00	-15.46	Average
3	2486.953	7.42	27.82	31.55	34.86	38.55	54.00	-15.45	Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 03663AT/03664AT

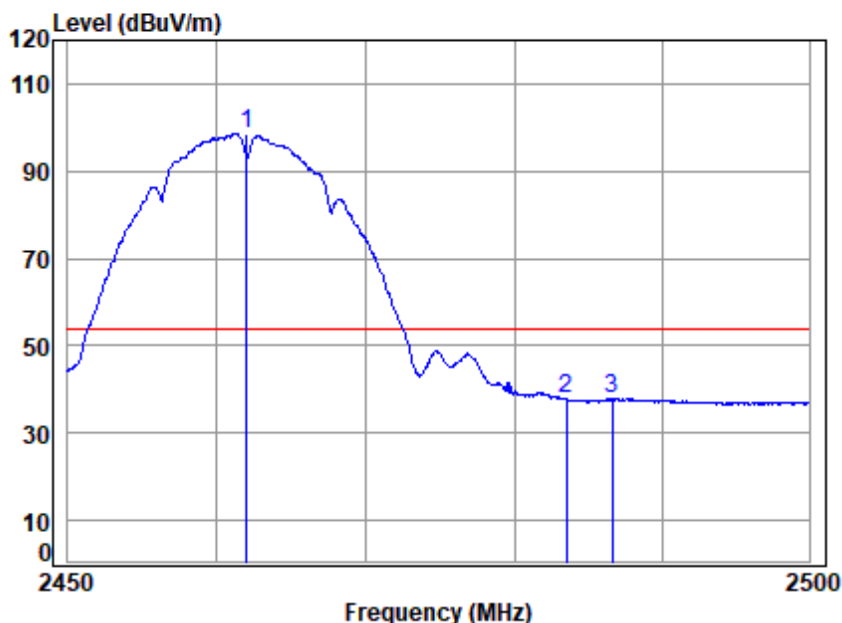
Mode : 2462 Band edge

: 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	98.93	102.30	74.00	28.30	Peak
2	2483.500	7.40	27.80	31.55	46.14	49.79	74.00	-24.21	Peak
3	2486.350	7.42	27.82	31.55	47.76	51.45	74.00	-22.55	Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 03663AT/03664AT

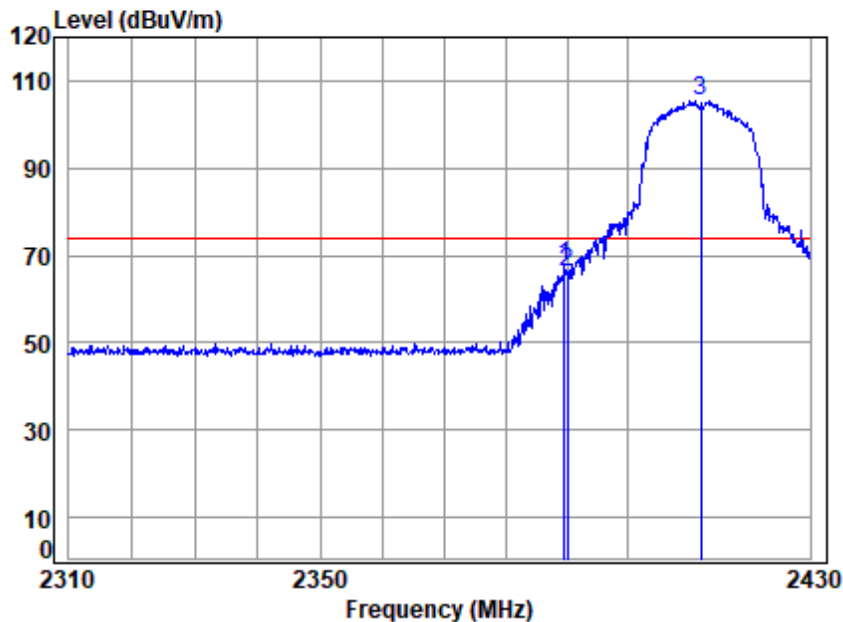
Mode : 2462 Band edge

: 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	95.30	98.67	54.00	44.67	Average
2	2483.500	7.40	27.80	31.55	34.11	37.76	54.00	-16.24	Average
3	2486.651	7.42	27.82	31.55	34.32	38.01	54.00	-15.99	Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 03663AT/03664AT

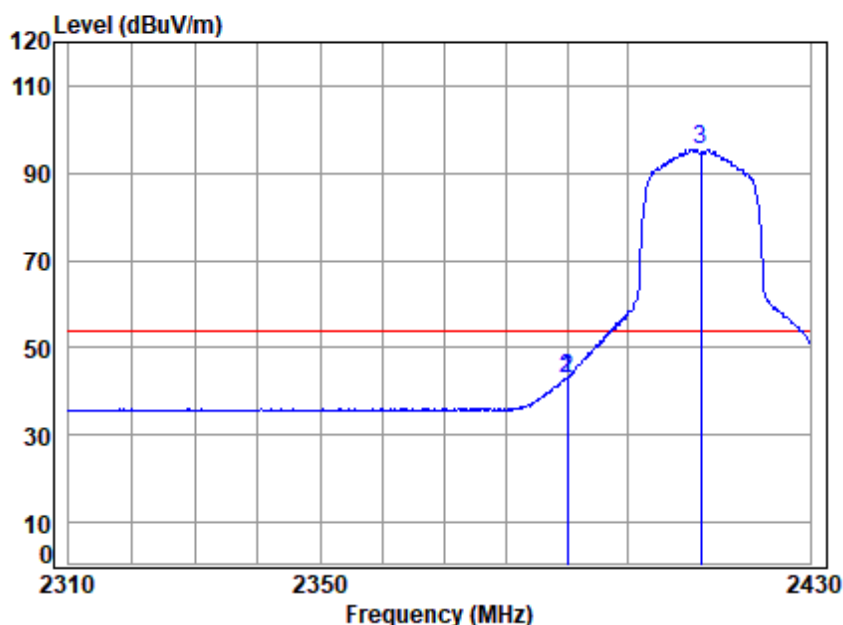
Mode : 2412 Band edge

: 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	2389.605	6.82	27.46	31.54	64.97	67.71	74.00	-6.29	peak
2	2390.000	6.83	27.46	31.54	63.33	66.08	74.00	-7.92	peak
3 pp	2412.000	6.91	27.52	31.54	102.38	105.27	74.00	31.27	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 03663AT/03664AT

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	31.54	40.26	43.01	54.00	-10.99	Average
2 2390.000	6.83	27.46	31.54	40.26	43.01	54.00	-10.99	Average
3 pp 2412.000	6.91	27.52	31.54	92.57	95.46	54.00	41.46	Average



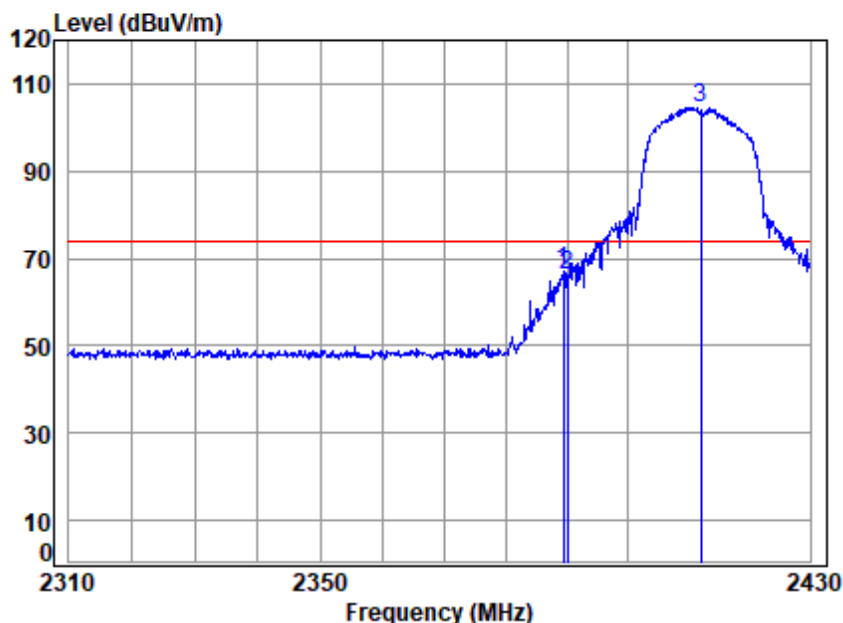
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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 03663AT/03664AT

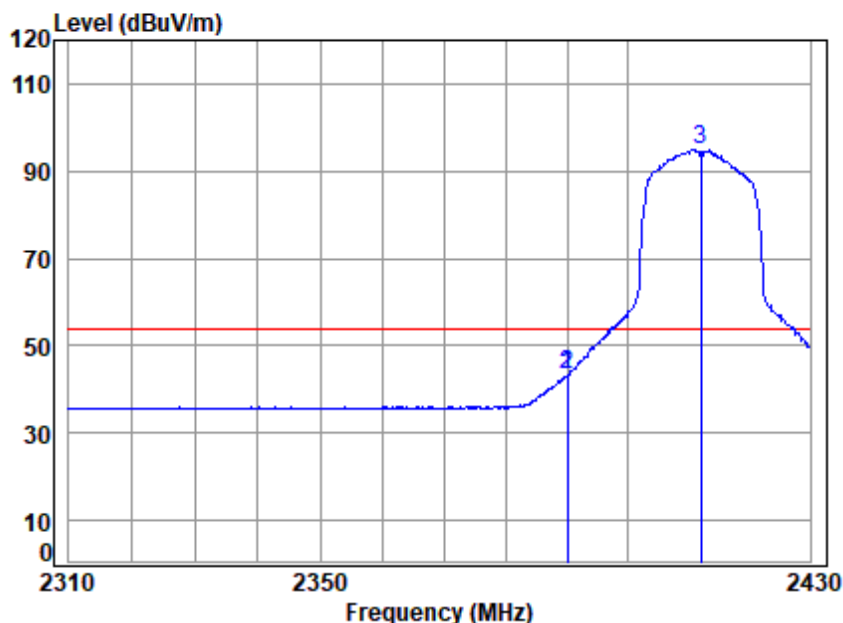
Mode : 2412 Band edge

: 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	2389.363	6.82	27.46	31.54	64.33	67.07	74.00	-6.93	Peak
2	2390.000	6.83	27.46	31.54	63.26	66.01	74.00	-7.99	Peak
3 pp	2412.000	6.91	27.52	31.54	101.63	104.52	74.00	30.52	Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 03663AT/03664AT

Mode : 2412 Band edge

: 2.4G Wi-Fi 11N20

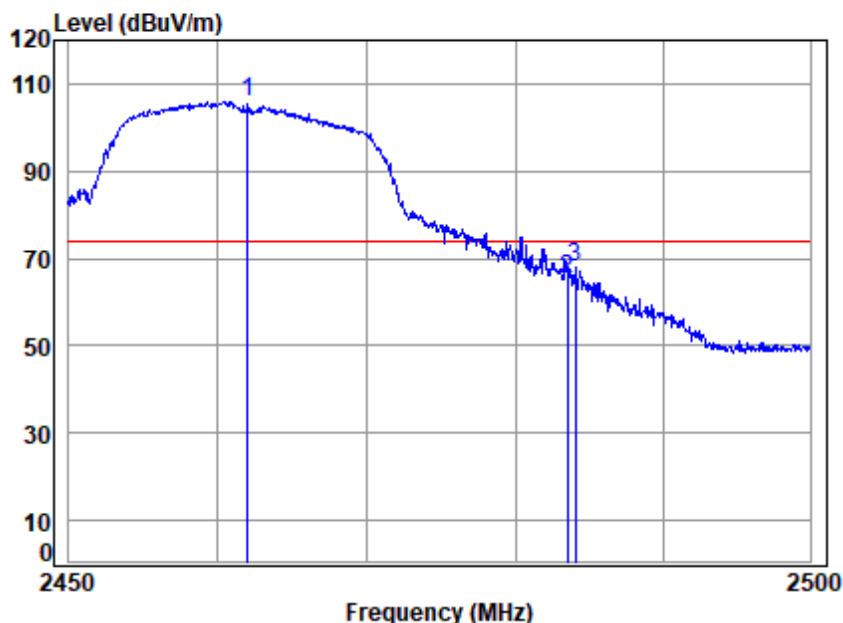
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.968	6.83	27.46	31.54	40.43	43.18	54.00	-10.82 Average
2	2390.000	6.83	27.46	31.54	40.43	43.18	54.00	-10.82 Average
3 pp	2412.000	6.91	27.52	31.54	92.12	95.01	54.00	41.01 Average



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 03663AT/03664AT

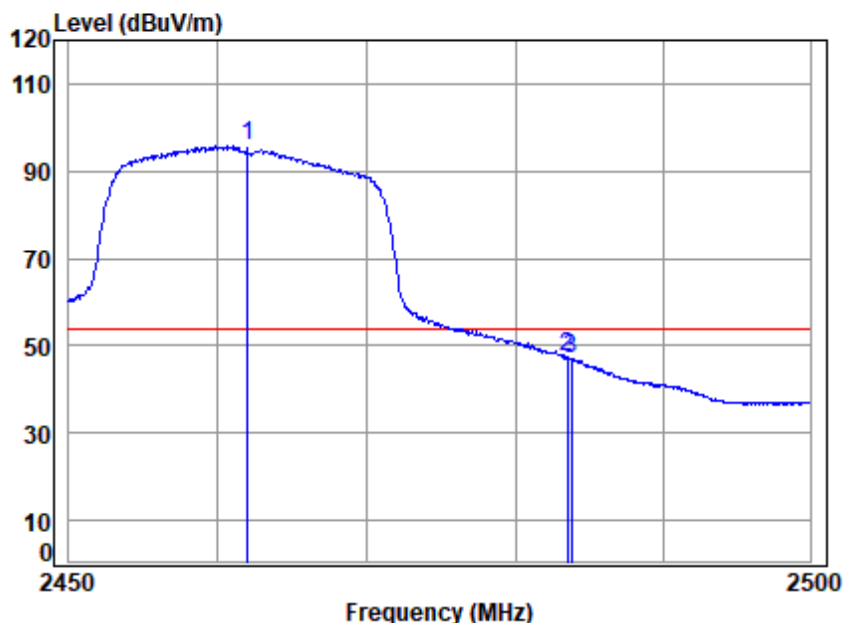
Mode : 2462 Band edge

: 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	102.60	105.97	74.00	31.97	peak
2	2483.500	7.40	27.80	31.55	61.60	65.25	74.00	-8.75	peak
3	2484.041	7.40	27.80	31.55	64.35	68.00	74.00	-6.00	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 03663AT/03664AT

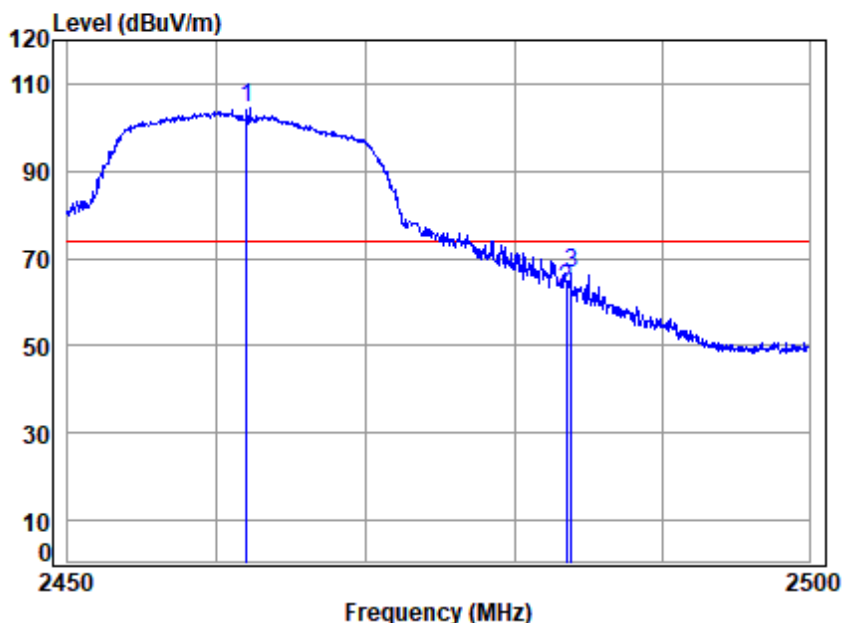
Mode : 2462 Band edge

: 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	92.37	95.74	54.00	41.74	Average
2	2483.500	7.40	27.80	31.55	43.83	47.48	54.00	-6.52	Average
3	2483.790	7.40	27.80	31.55	43.43	47.08	54.00	-6.92	Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 03663AT/03664AT

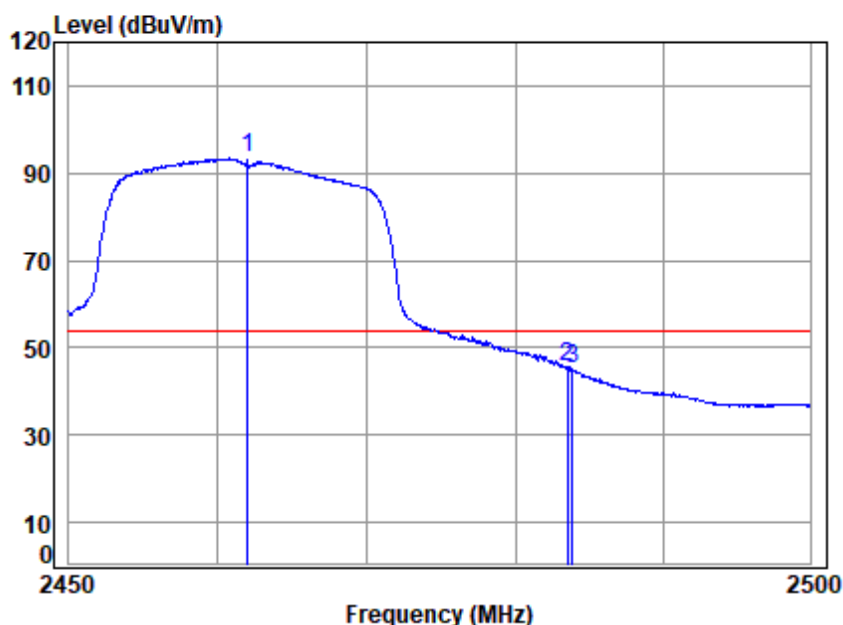
Mode : 2462 Band edge

: 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	100.98	104.35	74.00	30.35	Peak
2	2483.500	7.40	27.80	31.55	59.29	62.94	74.00	-11.06	Peak
3	2483.840	7.40	27.80	31.55	62.99	66.64	74.00	-7.36	Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 03663AT/03664AT

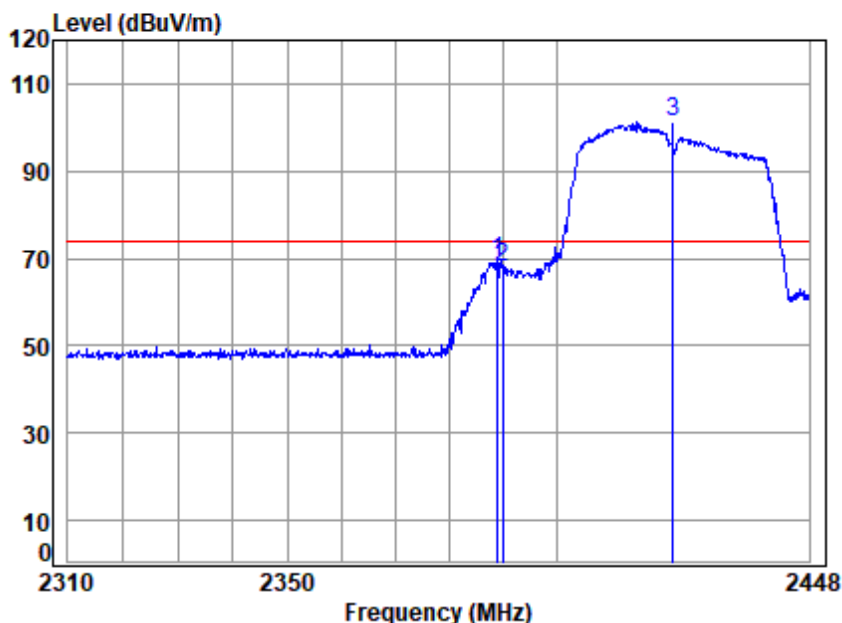
Mode : 2462 Band edge

: 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	90.01	93.38	54.00	39.38	Average
2	2483.500	7.40	27.80	31.55	41.83	45.48	54.00	-8.52	Average
3	2483.840	7.40	27.80	31.55	41.60	45.25	54.00	-8.75	Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 03663AT/03664AT

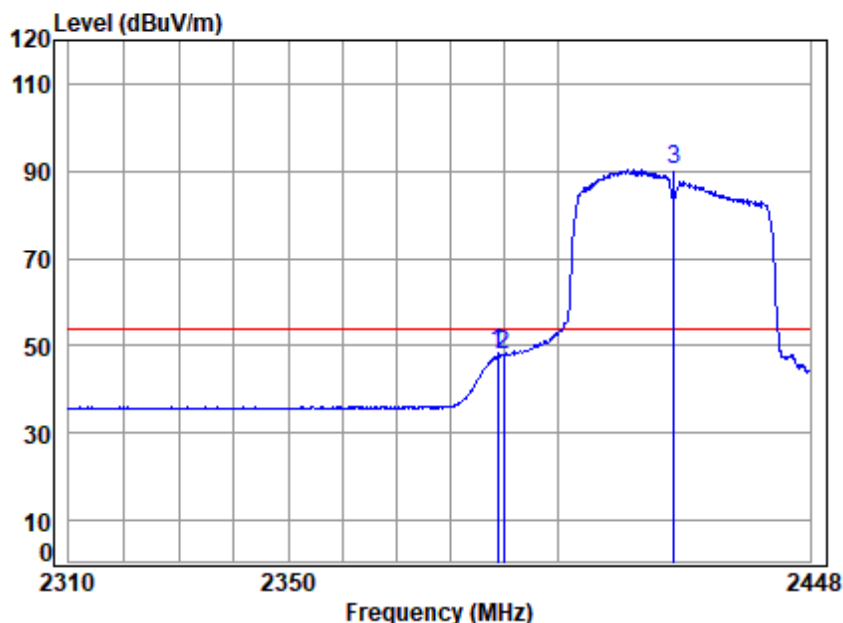
Mode : 2422 Band edge

: 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	2389.063	6.82	27.46	31.54	66.84	69.58	74.00	-4.42	peak
2	2390.000	6.83	27.46	31.54	65.34	68.09	74.00	-5.91	peak
3 pp	2422.000	6.98	27.54	31.54	98.26	101.24	74.00	27.24	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 03663AT/03664AT

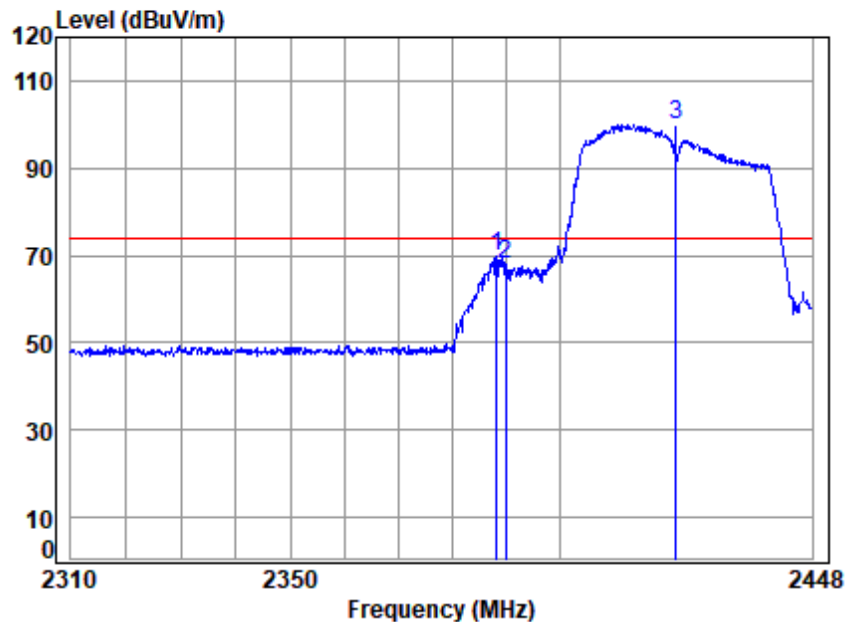
Mode : 2422 Band edge

: 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	2388.925	6.82	27.46	31.54	45.46	48.20	54.00	-5.80	Average
2	2390.000	6.83	27.46	31.54	45.30	48.05	54.00	-5.95	Average
3	2422.000	6.98	27.54	31.54	87.20	90.18	54.00	36.18	Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 03663AT/03664AT

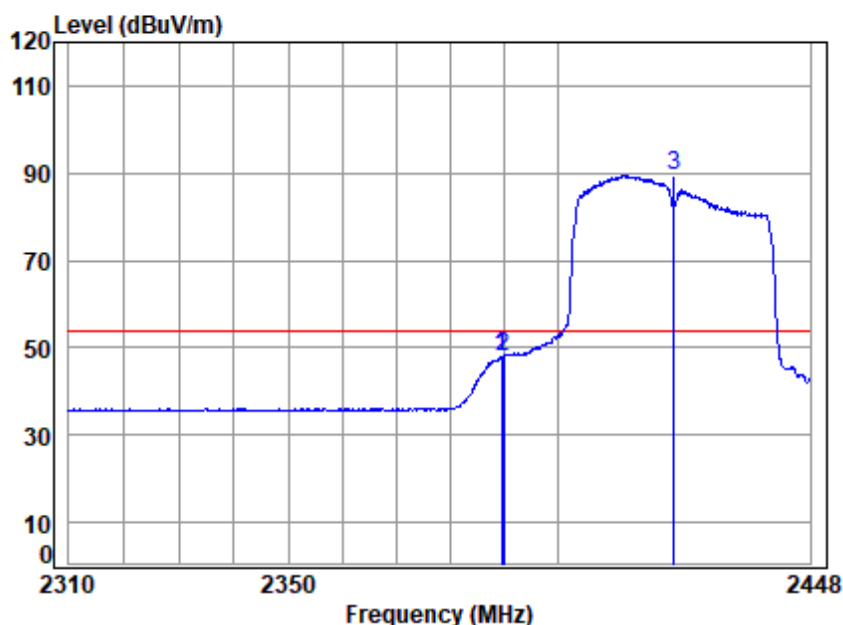
Mode : 2422 Band edge

: 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	2388.232	6.82	27.45	31.54	67.12	69.85	74.00 -4.15 Peak
2	2390.000	6.83	27.46	31.54	65.10	67.85	74.00 -6.15 Peak
3 pp	2422.000	6.98	27.54	31.54	97.04	100.02	74.00 26.02 Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 03663AT/03664AT

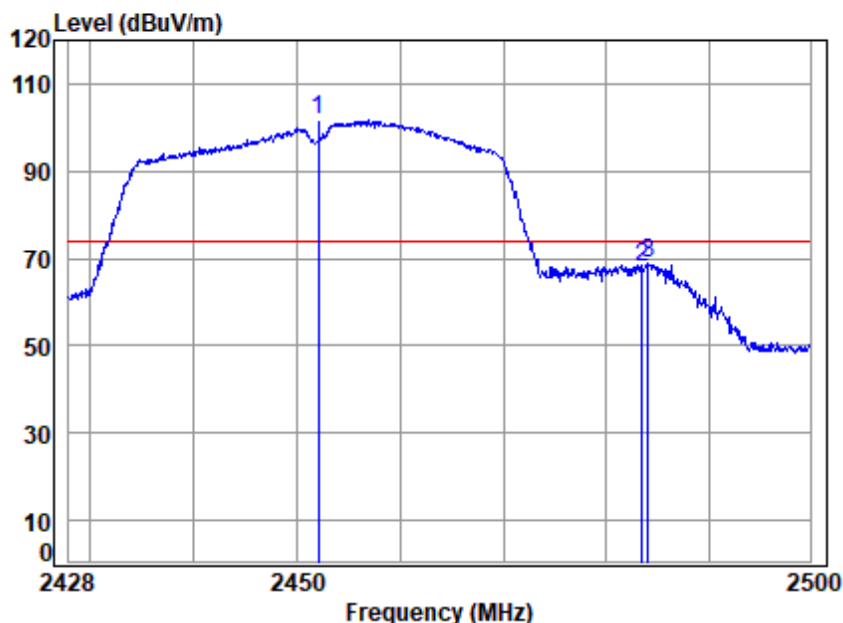
Mode : 2422 Band edge

: 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 2389.618	6.82	27.46	31.54	45.11	47.85	54.00	-6.15 Average
2 2390.000	6.83	27.46	31.54	45.32	48.07	54.00	-5.93 Average
3 pp 2422.000	6.98	27.54	31.54	86.53	89.51	54.00	35.51 Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 03663AT/03664AT

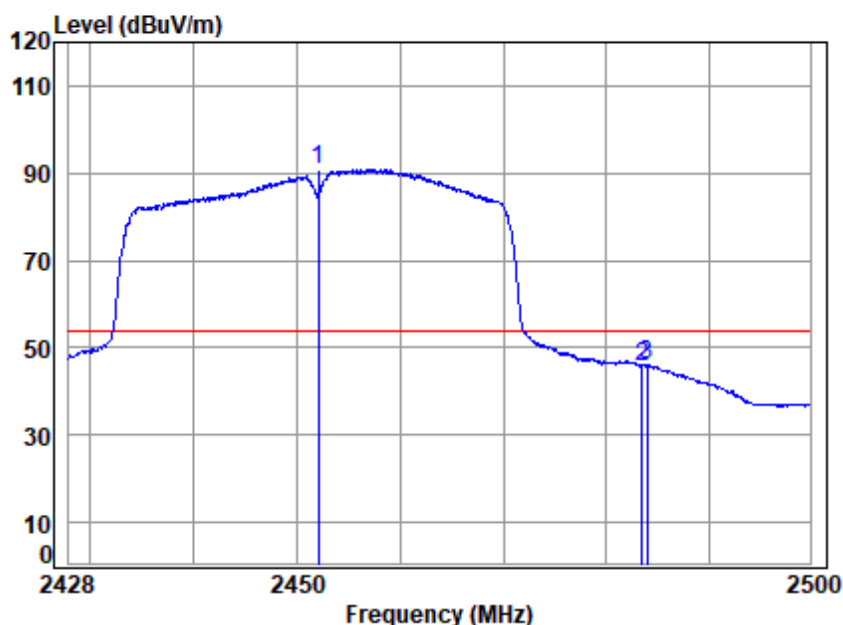
Mode : 2452 Band edge

: 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	7.19	27.61	31.55	98.32	101.57	74.00	27.57	peak
2	2483.500	7.40	27.80	31.55	64.33	67.98	74.00	-6.02	peak
3	2484.124	7.40	27.80	31.55	65.12	68.77	74.00	-5.23	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 03663AT/03664AT

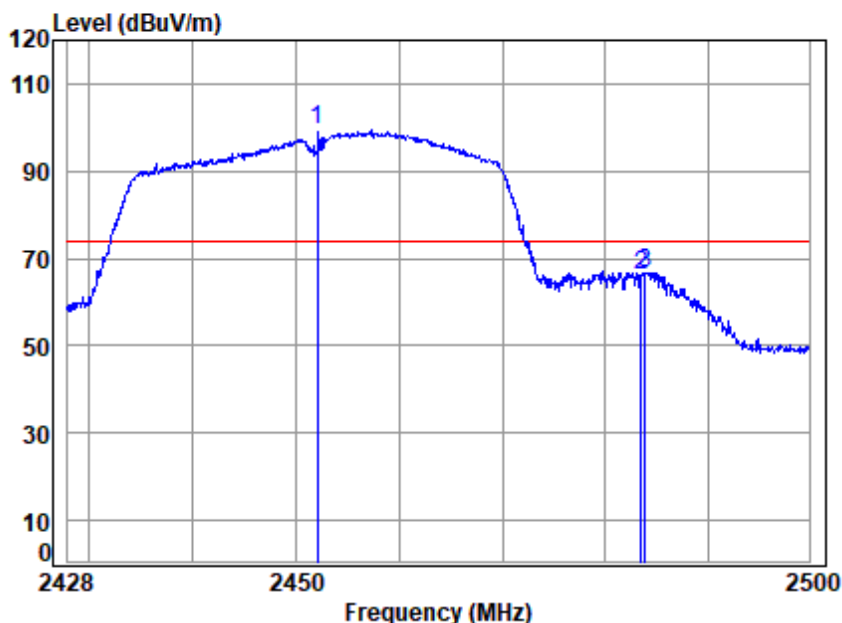
Mode : 2452 Band edge

: 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	7.19	27.61	31.55	87.75	91.00	54.00	37.00	Average
2	2483.500	7.40	27.80	31.55	42.15	45.80	54.00	-8.20	Average
3	2483.979	7.40	27.80	31.55	42.34	45.99	54.00	-8.01	Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 03663AT/03664AT

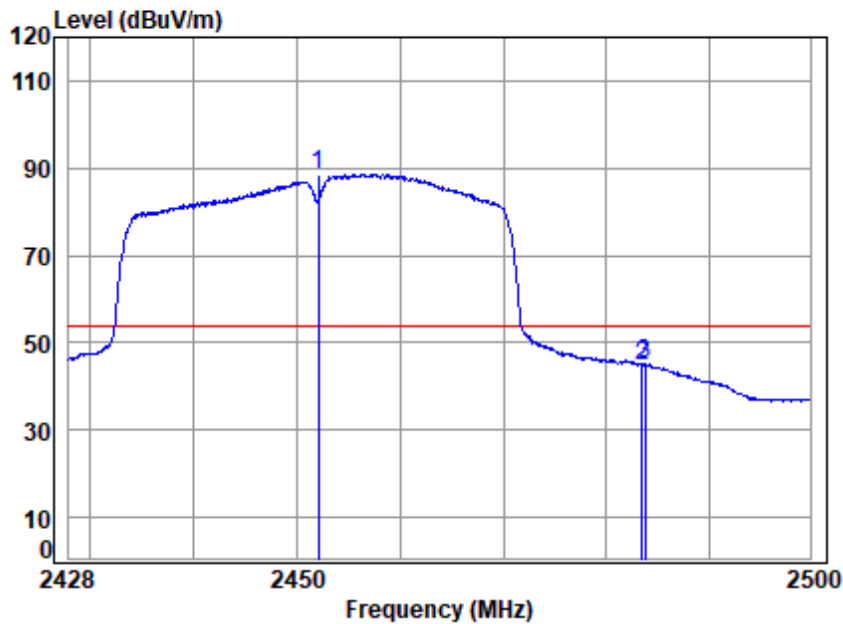
Mode : 2452 Band edge

: 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	7.19	27.61	31.55	96.16	99.41	74.00	25.41	Peak
2	2483.500	7.40	27.80	31.55	62.60	66.25	74.00	-7.75	Peak
3	2483.906	7.40	27.80	31.55	63.18	66.83	74.00	-7.17	Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 03663AT/03664AT

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	7.19	27.61	31.55	85.43	88.68	54.00	34.68	Average
2	2483.500	7.40	27.80	31.55	41.28	44.93	54.00	-9.07	Average
3	2483.834	7.40	27.80	31.55	41.59	45.24	54.00	-8.76	Average



7.2 Radiated Spurious Emissions Below 1GHz

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

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

Measurement Distance: 3m

Limit:

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

Humidity: 42.6 % RH

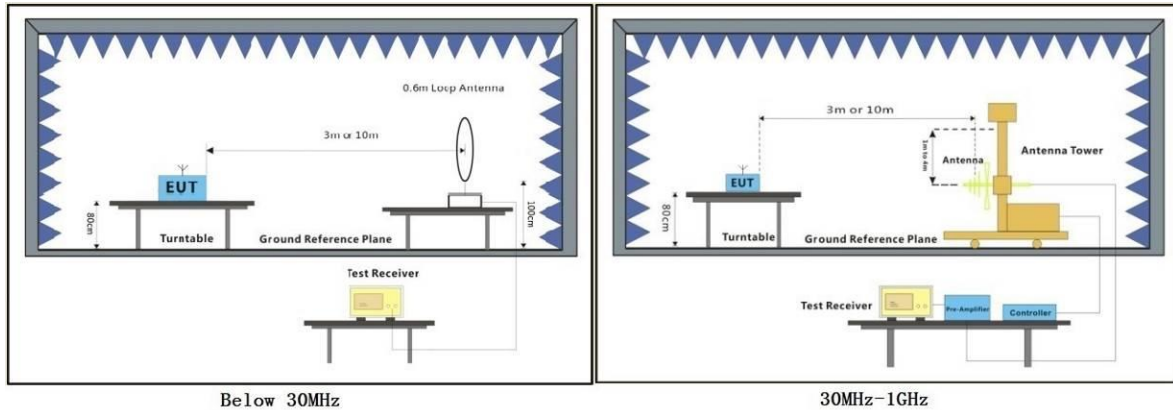
Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.



7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

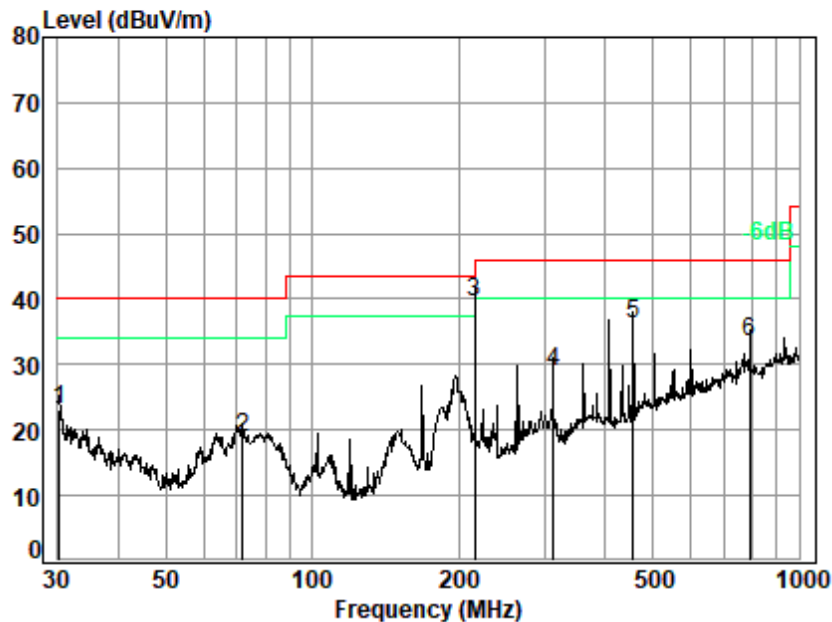
- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, 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: 03; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

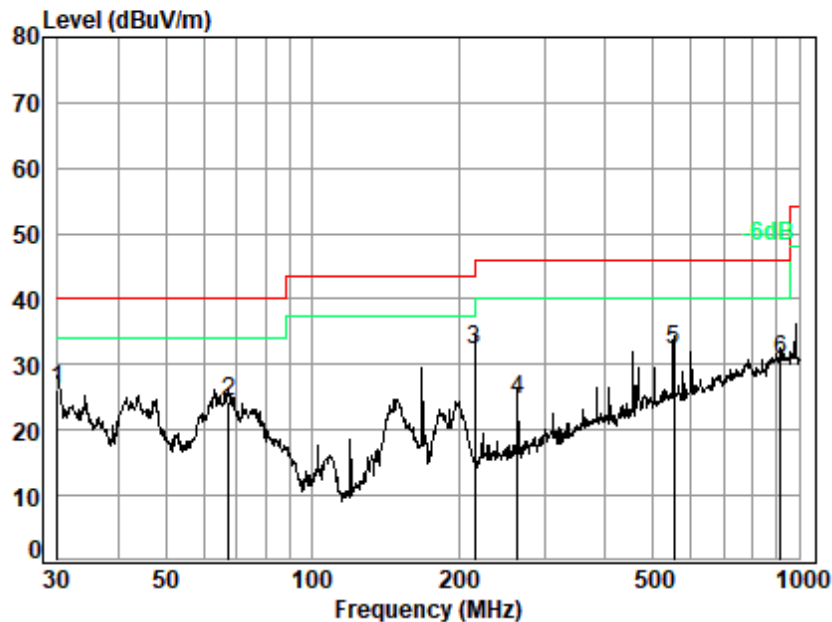
Job No. : 03663AT/03664AT

Test Mode: 03

	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	28.92	23.11	40.00	-16.89 QP
2	72.084	10.48	1.01	27.61	35.05	18.93	40.00	-21.07 QP
3 q	216.024	14.87	1.78	27.74	50.67	39.58	46.00	-6.42 QP
4	312.179	18.41	2.16	27.53	36.00	29.04	46.00	-16.96 QP
5	455.906	21.25	2.68	27.86	40.05	36.12	46.00	-9.88 QP
6	793.396	27.06	3.67	27.61	30.20	33.32	46.00	-12.68 QP



Test Mode: 03; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 03663AT/03664AT

Test Mode: 03

	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	30.000	21.20	0.74	27.65	31.90	26.19	40.00	-13.81 QP
2	67.202	10.79	0.96	27.62	40.08	24.21	40.00	-15.79 QP
3	216.024	14.87	1.78	27.74	43.39	32.30	46.00	-13.70 QP
4	263.819	17.11	1.98	27.60	33.09	24.58	46.00	-21.42 QP
5 q	552.883	23.71	2.97	28.03	33.74	32.39	46.00	-13.61 QP
6	916.069	28.06	4.01	26.87	25.38	30.58	46.00	-15.42 QP



7.3 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

Limit:

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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C

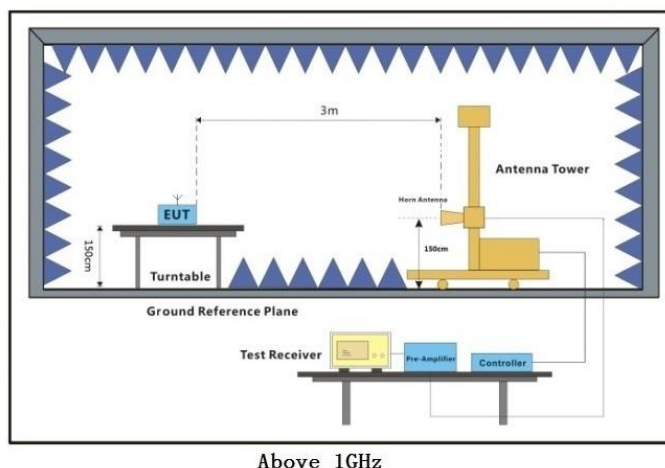
Humidity: 55.0 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

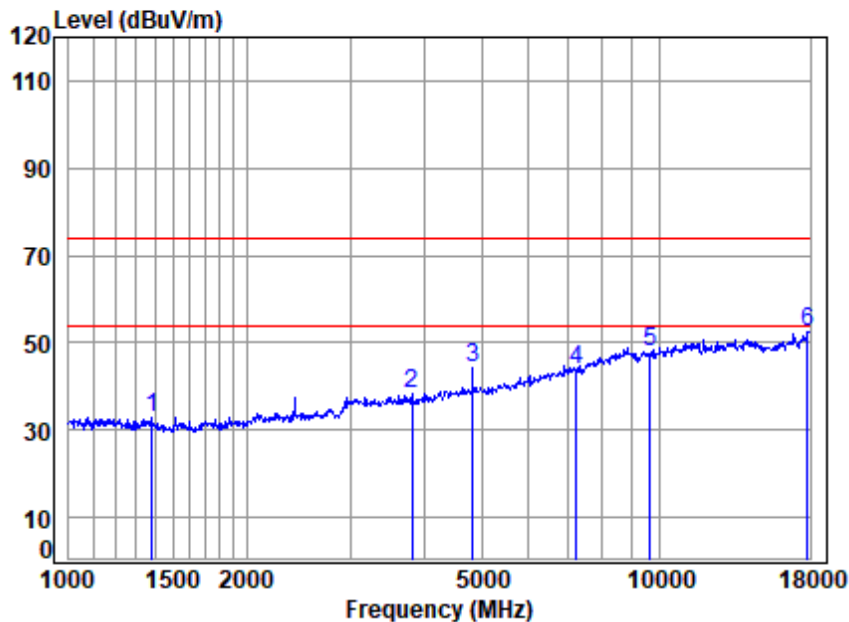
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which 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: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 03663AT/03664AT

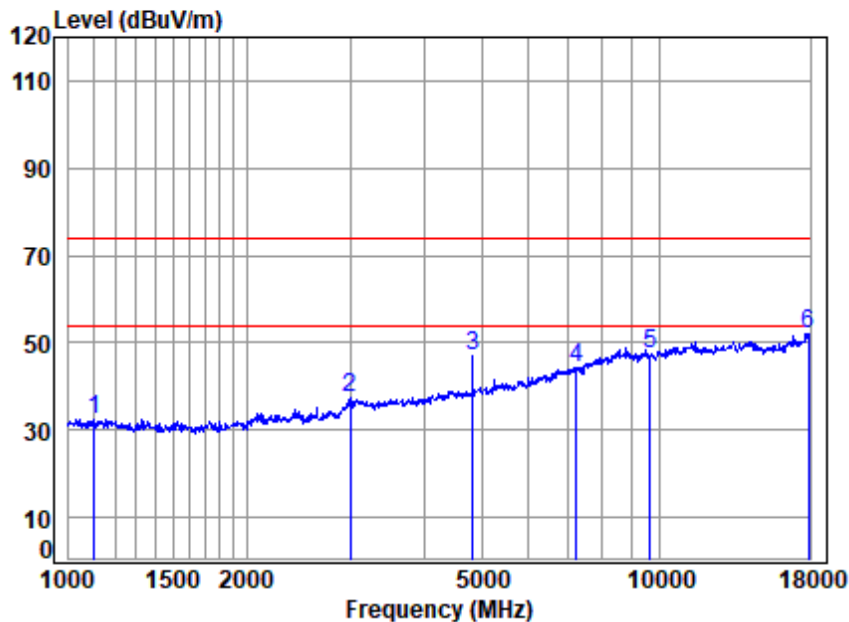
Mode : 2412 TX RSE

: 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	1386.264	7.20	25.03	54.70	55.11	32.64	74.00	-41.36 peak
2	3812.336	8.01	29.88	55.49	55.89	38.29	74.00	-35.71 peak
3	4824.000	8.92	32.00	56.18	59.41	44.15	74.00	-29.85 peak
4	7236.000	11.10	36.60	56.51	52.63	43.82	74.00	-30.18 peak
5	9648.000	12.49	38.70	54.42	50.93	47.70	74.00	-26.30 peak
6	pp17844.590	19.02	42.77	54.47	44.94	52.26	74.00	-21.74 Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 03663AT/03664AT

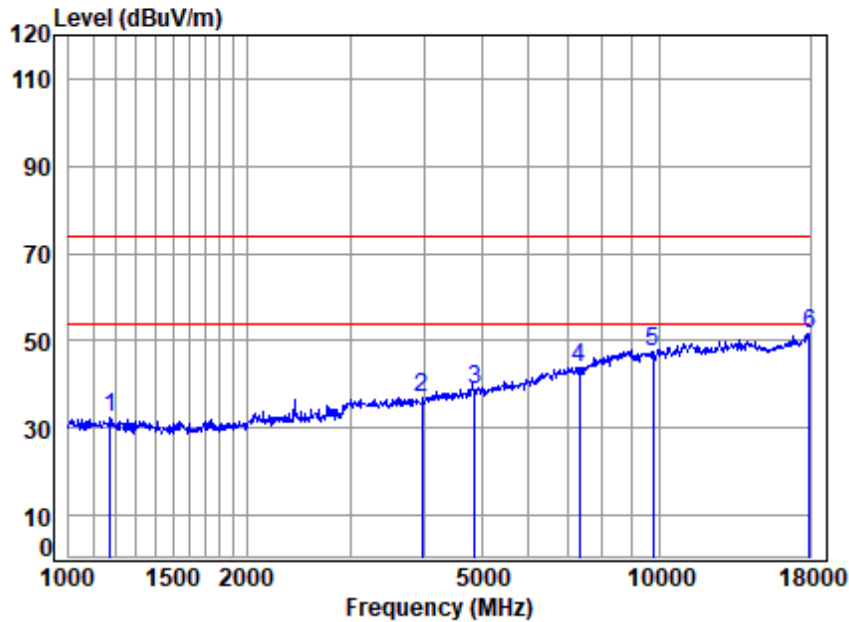
Mode : 2412 TX RSE

: 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	1106.457	7.11	25.57	54.70	54.32	32.30	74.00	-41.70 peak
2	2999.187	8.18	29.00	55.00	55.42	37.60	74.00	-36.40 peak
3	4824.000	8.92	32.00	56.18	62.27	47.01	74.00	-26.99 peak
4	7236.000	11.10	36.60	56.51	53.00	44.19	74.00	-29.81 peak
5	9648.000	12.49	38.70	54.42	50.69	47.46	74.00	-26.54 peak
6	pp17896.250	18.87	43.08	54.48	44.64	52.11	74.00	-21.89 Peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 03663AT/03664AT

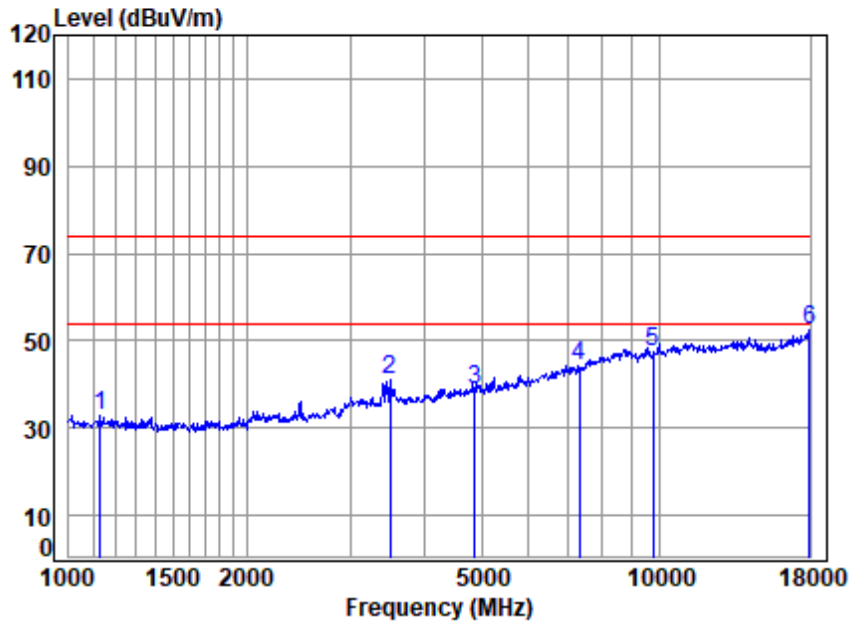
Mode : 2437 TX RSE

: 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	1175.697	7.17	25.35	54.70	54.50	32.32	74.00	-41.68 peak
2	3969.767	8.10	30.14	55.58	54.25	36.91	74.00	-37.09 peak
3	4874.000	8.97	32.15	56.21	53.93	38.84	74.00	-35.16 peak
4	7311.000	11.11	36.72	56.45	52.37	43.75	74.00	-30.25 peak
5	9748.000	12.80	38.60	54.33	50.29	47.36	74.00	-26.64 peak
6	pp17948.050	18.75	43.44	54.49	43.92	51.62	74.00	-22.38 Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 03663AT/03664AT

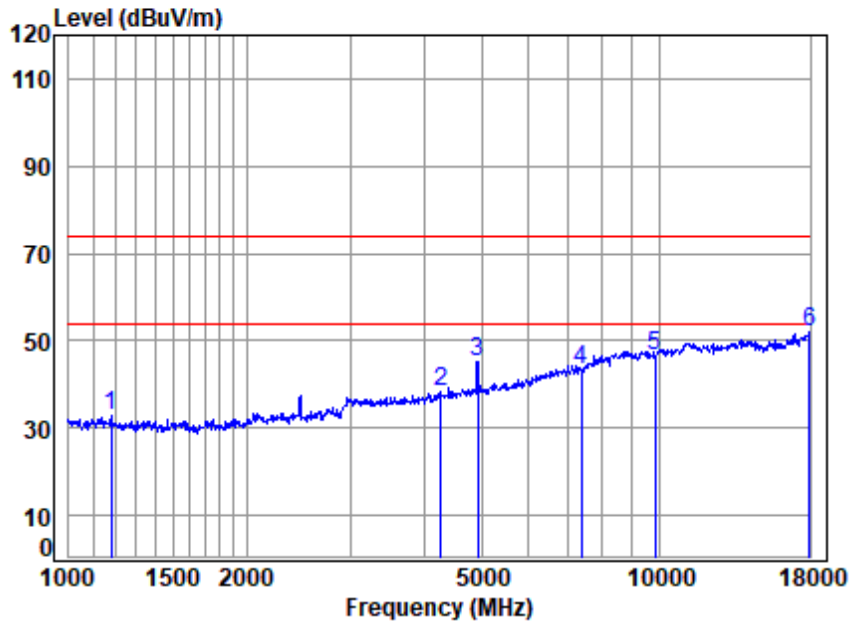
Mode : 2437 TX RSE

: 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	1129.072	7.13	25.48	54.70	54.85	32.76	74.00	-41.24 peak
2	3495.691	7.73	29.58	55.30	58.94	40.95	74.00	-33.05 peak
3	4874.000	8.97	32.15	56.21	53.83	38.74	74.00	-35.26 peak
4	7311.000	11.11	36.72	56.45	52.70	44.08	74.00	-29.92 peak
5	9748.000	12.80	38.60	54.33	50.59	47.66	74.00	-26.34 peak
6	pp17948.050	18.75	43.44	54.49	44.68	52.38	74.00	-21.62 Peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 03663AT/03664AT

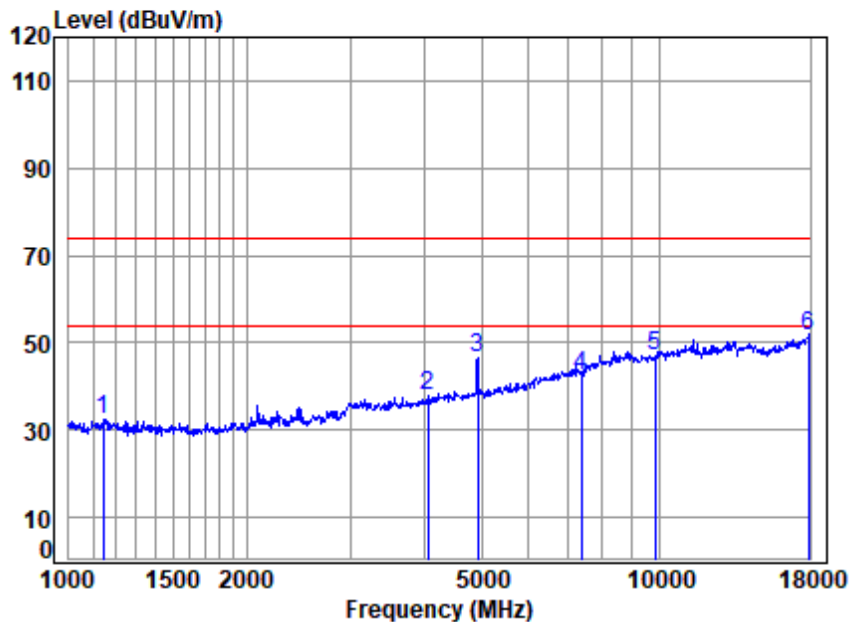
Mode : 2462 TX RSE

: 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	1179.100	7.17	25.34	54.70	55.13	32.94	74.00	-41.06 peak
2	4267.237	8.47	31.17	55.79	54.36	38.21	74.00	-35.79 peak
3	4924.000	9.03	32.20	56.25	60.41	45.39	74.00	-28.61 peak
4	7386.000	11.19	36.73	56.39	51.79	43.32	74.00	-30.68 peak
5	9848.000	12.84	37.83	54.24	50.28	46.71	74.00	-27.29 peak
6	pp17948.050	18.75	43.44	54.49	44.42	52.12	74.00	-21.88 Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 03663AT/03664AT

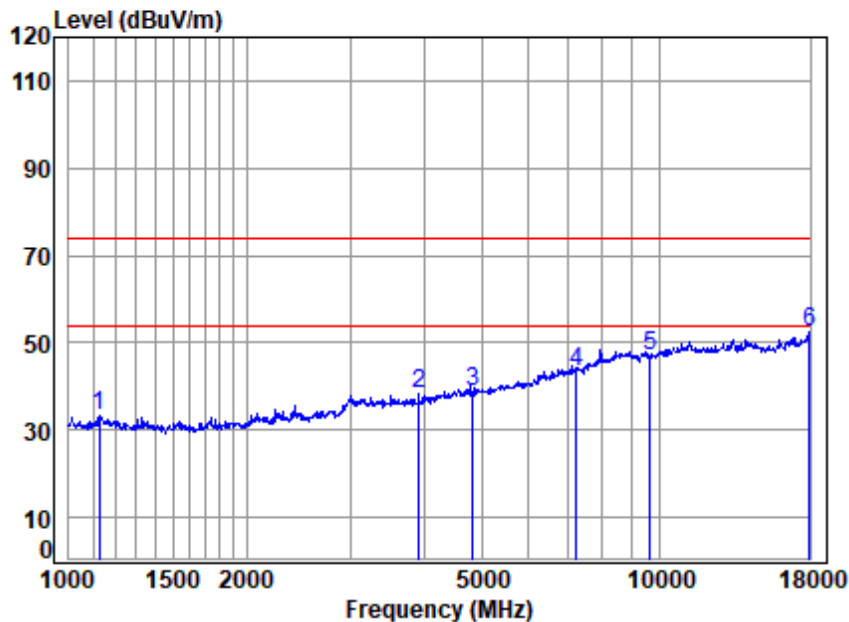
Mode : 2462 TX RSE

: 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	1142.201	7.14	25.43	54.70	54.46	32.33	74.00	-41.67 peak
2	4062.629	8.27	30.33	55.64	54.81	37.77	74.00	-36.23 peak
3	4924.000	9.03	32.20	56.25	61.59	46.57	74.00	-27.43 peak
4	7386.000	11.19	36.73	56.39	50.81	42.34	74.00	-31.66 peak
5	9848.000	12.84	37.83	54.24	50.44	46.87	74.00	-27.13 peak
6	pp17896.250	18.87	43.08	54.48	44.28	51.75	74.00	-22.25 Peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 03663AT/03664AT

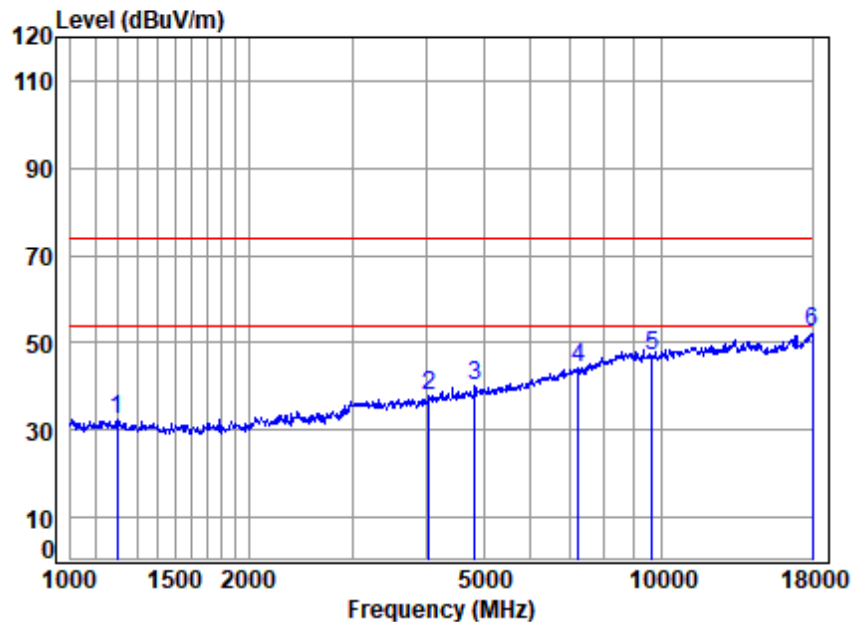
Mode : 2412 TX RSE

: 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	1125.813	7.12	25.50	54.70	55.29	33.21	74.00	-40.79 peak
2	3912.809	8.08	29.95	55.55	56.05	38.53	74.00	-35.47 peak
3	4824.000	8.92	32.00	56.18	53.99	38.73	74.00	-35.27 peak
4	7236.000	11.10	36.60	56.51	52.10	43.29	74.00	-30.71 peak
5	9648.000	12.49	38.70	54.42	50.35	47.12	74.00	-26.88 peak
6	pp17948.050	18.75	43.44	54.49	44.64	52.34	74.00	-21.66 Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 03663AT/03664AT

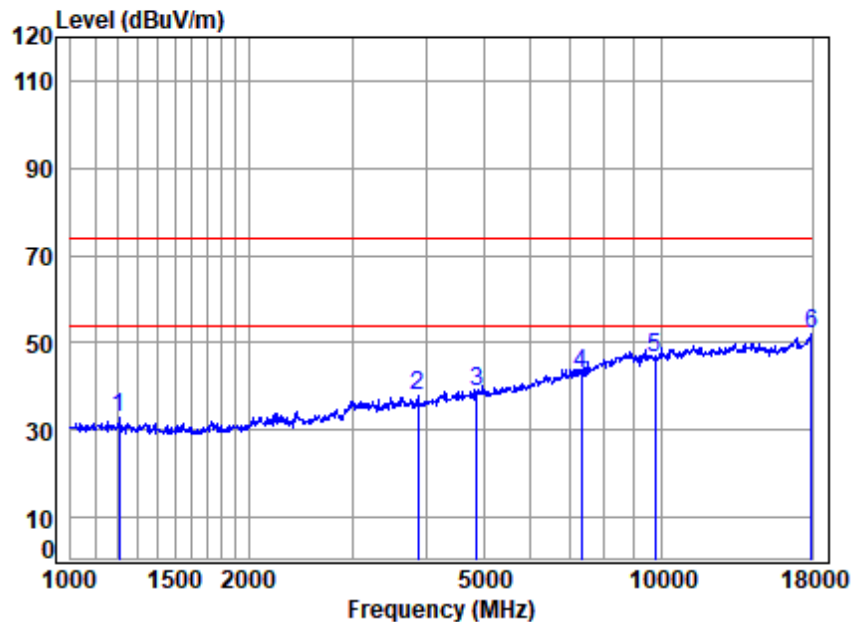
Mode : 2412 TX RSE

: 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	1199.726	7.19	25.30	54.70	54.45	32.24	74.00	-41.76 peak
2	4039.212	8.21	30.28	55.63	55.08	37.94	74.00	-36.06 peak
3	4824.000	8.92	32.00	56.18	55.24	39.98	74.00	-34.02 peak
4	7236.000	11.10	36.60	56.51	52.96	44.15	74.00	-29.85 peak
5	9648.000	12.49	38.70	54.42	50.19	46.96	74.00	-27.04 peak
6	pp18000.000	18.64	43.80	54.50	44.65	52.59	74.00	-21.41 Peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 03663AT/03664AT

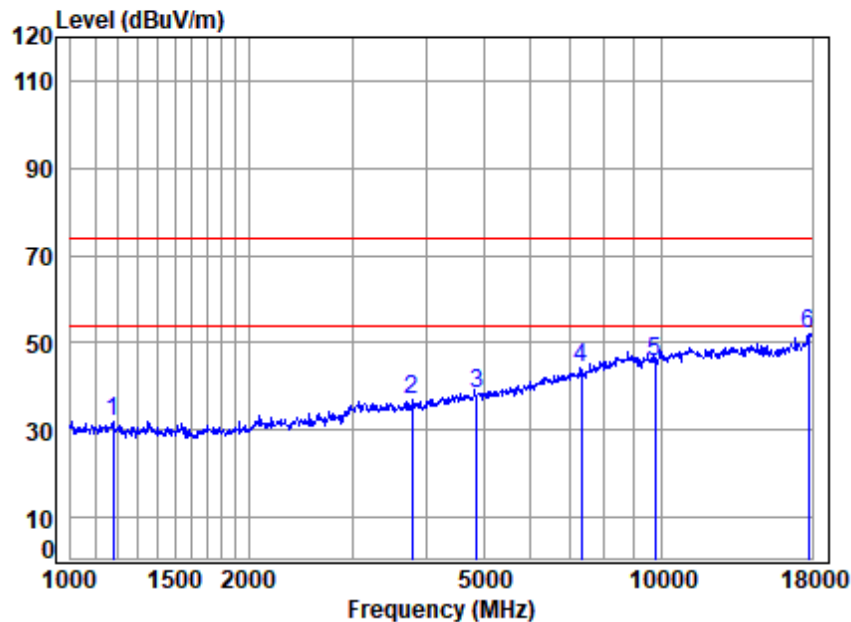
Mode : 2437 TX RSE

: 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	1206.682	7.19	25.30	54.70	55.08	32.87	74.00	-41.13 peak
2	3879.027	8.06	29.86	55.53	55.45	37.84	74.00	-36.16 peak
3	4874.000	8.97	32.15	56.21	53.65	38.56	74.00	-35.44 peak
4	7311.000	11.11	36.72	56.45	51.63	43.01	74.00	-30.99 peak
5	9748.000	12.80	38.60	54.33	49.58	46.65	74.00	-27.35 peak
6	pp17948.050	18.75	43.44	54.49	44.54	52.24	74.00	-21.76 Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 03663AT/03664AT

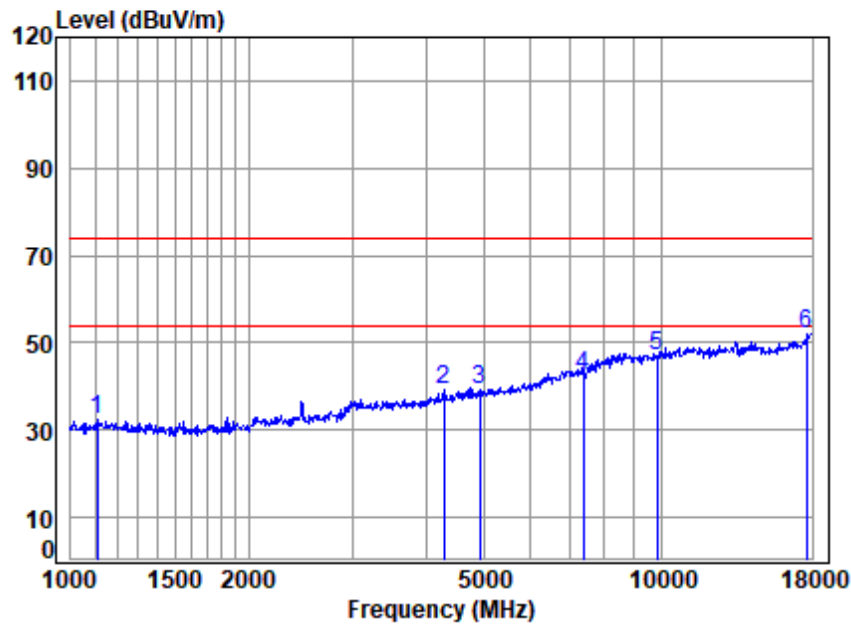
Mode : 2437 TX RSE

: 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	1179.100	7.17	25.34	54.70	54.35	32.16	74.00	-41.84 peak
2	3790.361	7.99	29.90	55.47	54.42	36.84	74.00	-37.16 peak
3	4874.000	8.97	32.15	56.21	53.20	38.11	74.00	-35.89 peak
4	7311.000	11.11	36.72	56.45	53.01	44.39	74.00	-29.61 peak
5	9748.000	12.80	38.60	54.33	48.72	45.79	74.00	-28.21 peak
6	pp17741.740	19.02	42.09	54.45	45.24	51.90	74.00	-22.10 Peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 03663AT/03664AT

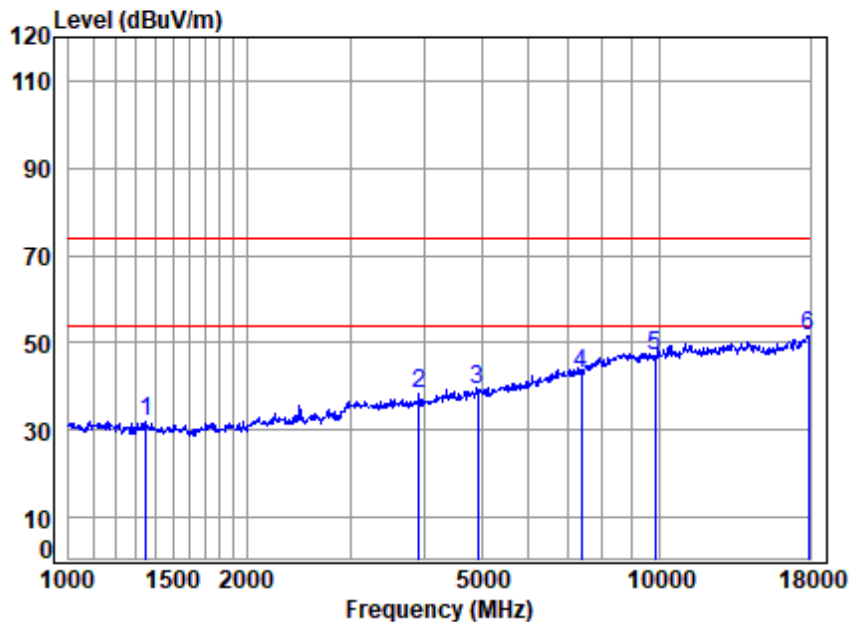
Mode : 2462 TX RSE

: 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	1109.660	7.11	25.56	54.70	54.43	32.40	74.00	-41.60 peak
2	4279.589	8.46	31.22	55.80	55.22	39.10	74.00	-34.90 peak
3	4924.000	9.03	32.20	56.25	54.11	39.09	74.00	-34.91 peak
4	7386.000	11.19	36.73	56.39	50.83	42.36	74.00	-31.64 peak
5	9848.000	12.84	37.83	54.24	50.40	46.83	74.00	-27.17 peak
6	pp17639.470	18.53	40.89	54.43	47.01	52.00	74.00	-22.00 Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 03663AT/03664AT

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	1350.667	7.18	25.10	54.70	54.34	31.92	74.00	-42.08 peak
2	3924.135	8.08	30.00	55.55	55.73	38.26	74.00	-35.74 peak
3	4924.000	9.03	32.20	56.25	54.15	39.13	74.00	-34.87 peak
4	7386.000	11.19	36.73	56.39	51.18	42.71	74.00	-31.29 peak
5	9848.000	12.84	37.83	54.24	50.74	47.17	74.00	-26.83 peak
6	pp17896.250	18.87	43.08	54.48	44.31	51.78	74.00	-22.22 Peak



7.4 Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2020) Section 11.9.2

Limit:

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

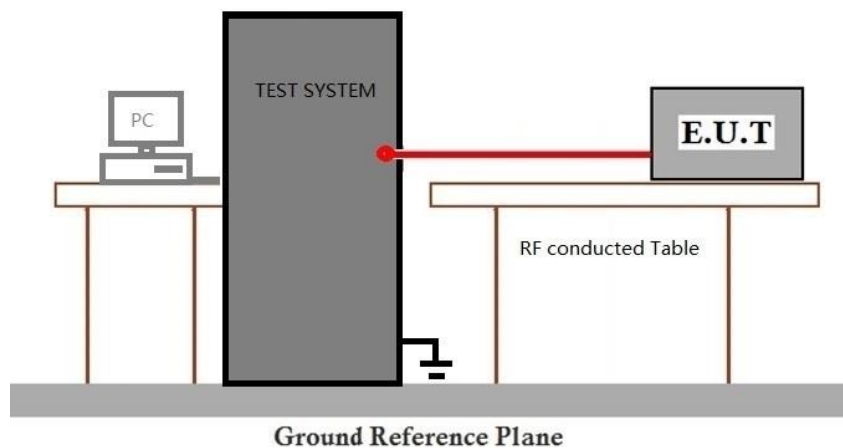
Humidity: 48.6 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



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7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

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

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2508003663AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2508003663AT



10 Appendix

1. Duty Cycle

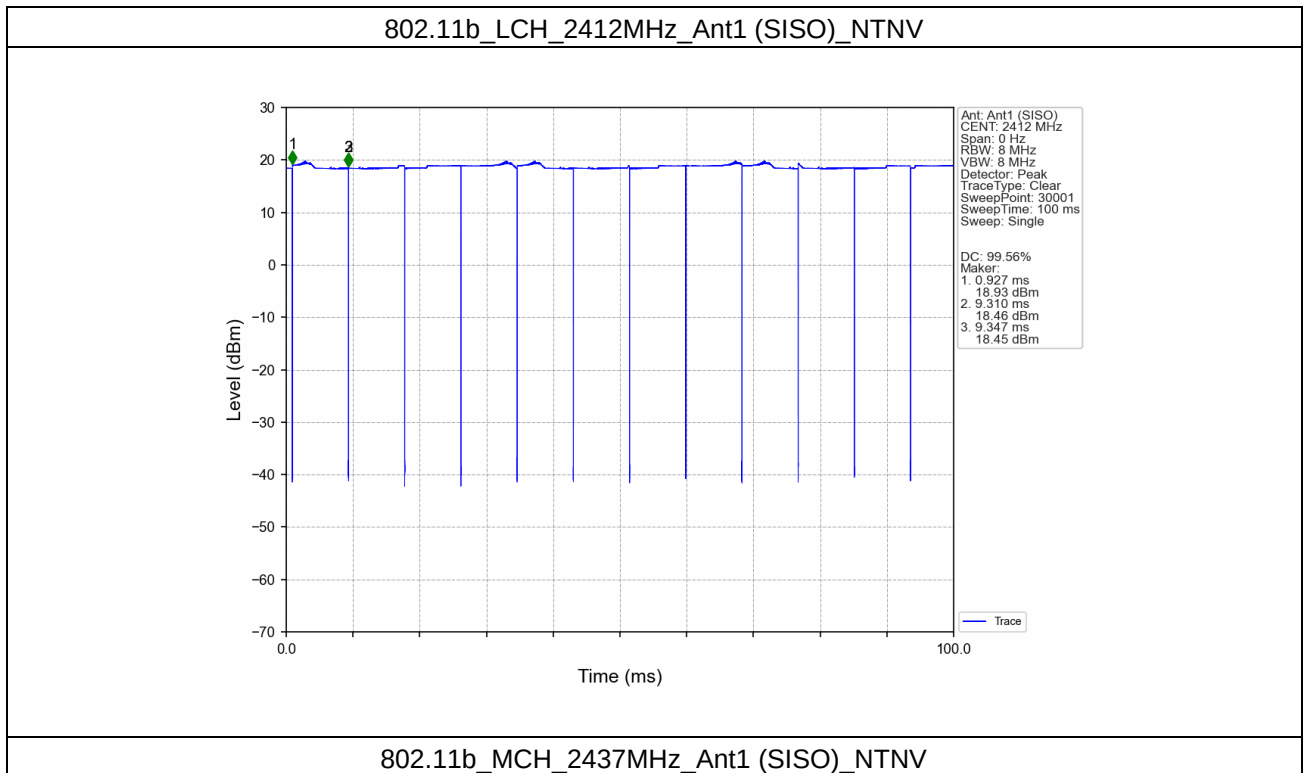
1.1 Test Result

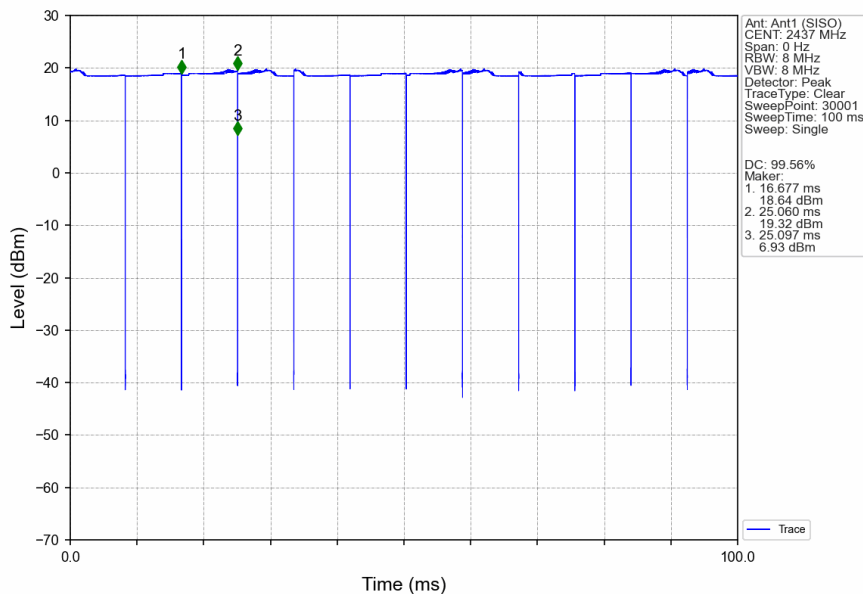
1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.383	8.420	99.56	0.02	0.04
		2437	8.383	8.420	99.56	0.02	0.00
		2462	8.383	8.420	99.56	0.02	0.04
802.11g	SISO	2412	1.394	1.437	97.01	0.13	0.00
		2437	1.394	1.436	97.08	0.13	0.00
		2462	1.394	1.436	97.08	0.13	0.00
802.11n (HT20)	SISO	2412	1.302	1.344	96.88	0.14	0.00
		2437	1.302	1.344	96.88	0.14	0.00
		2462	1.302	1.344	96.88	0.14	0.03
802.11n (HT40)	SISO	2422	0.649	0.692	93.79	0.28	0.00
		2437	0.650	0.692	93.93	0.27	0.03
		2452	0.650	0.692	93.93	0.27	0.00

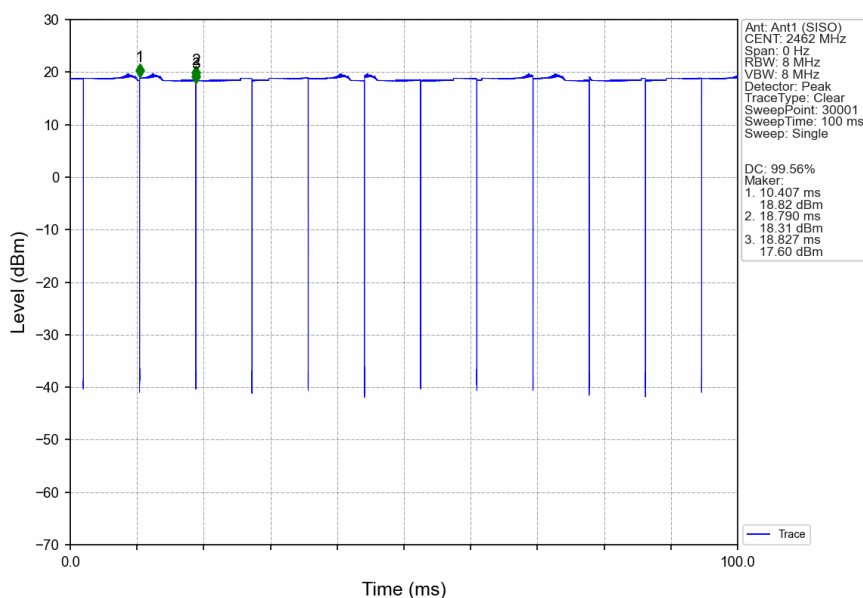
1.2 Test Graph

1.2.1 Ant1

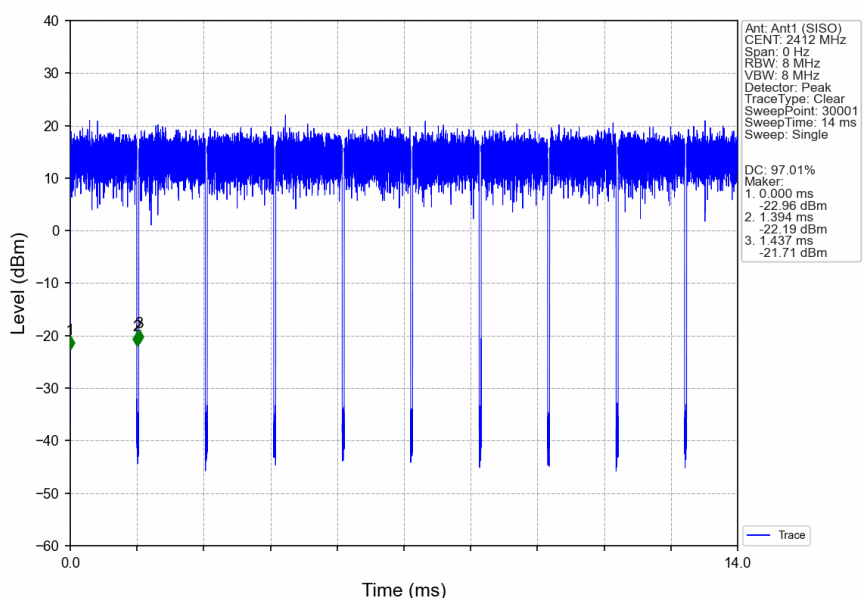




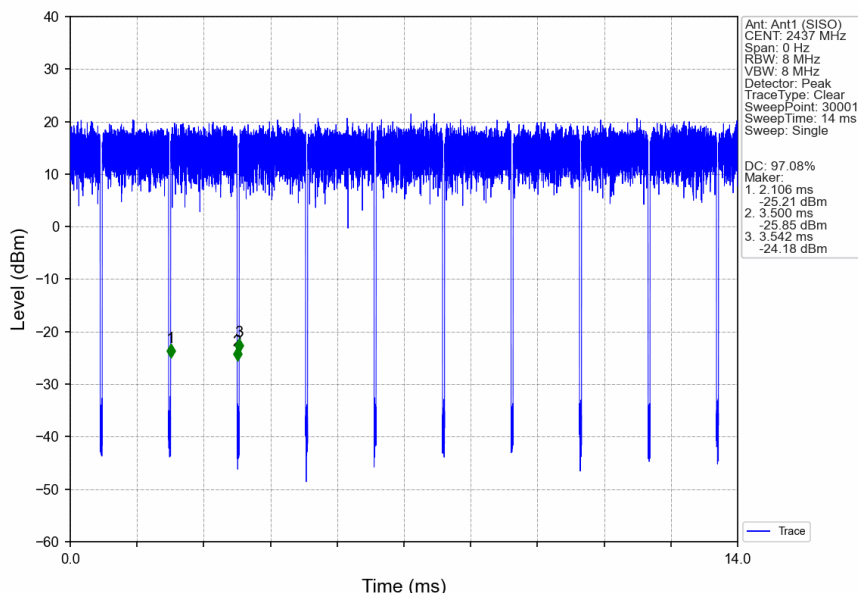
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



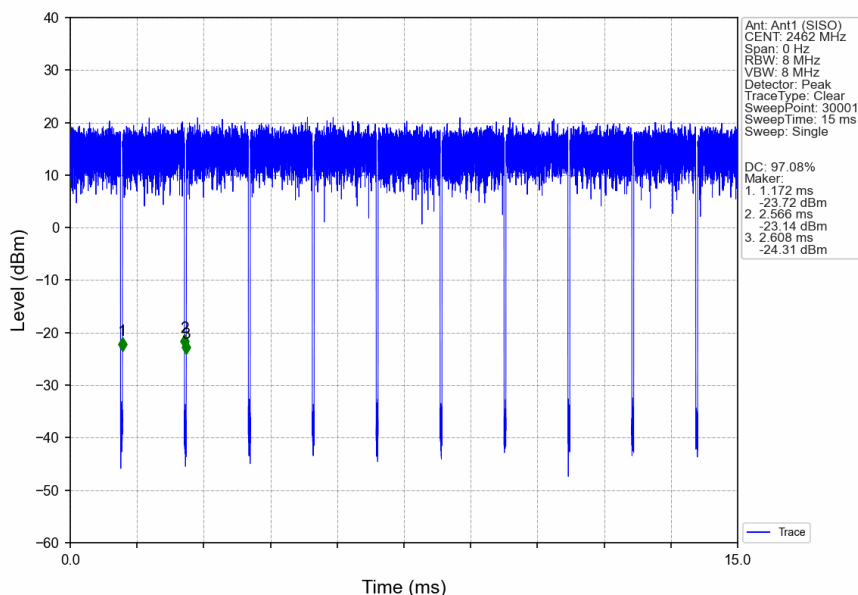
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



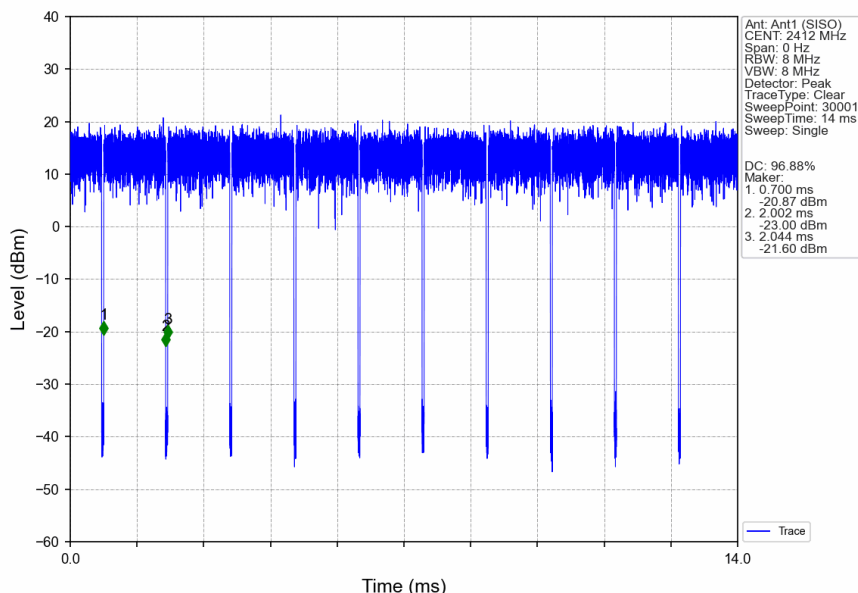
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



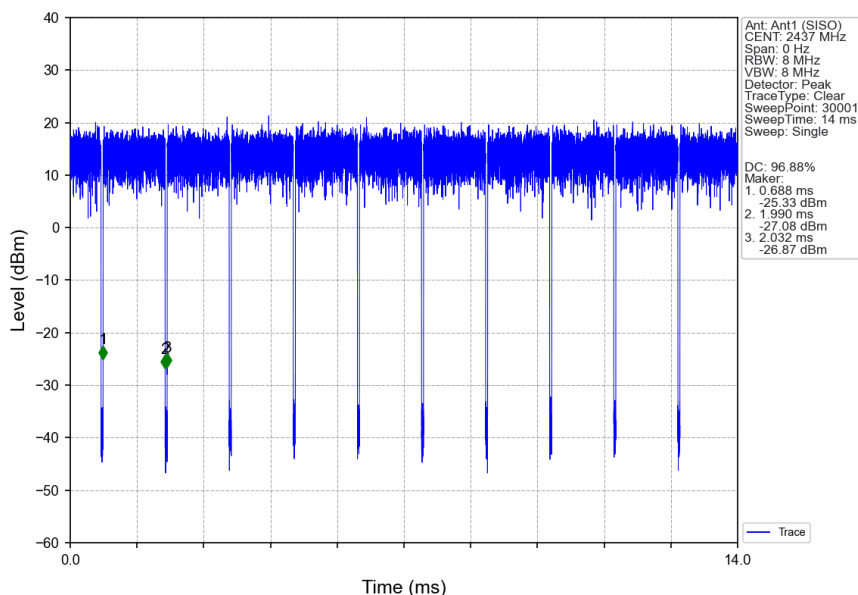
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



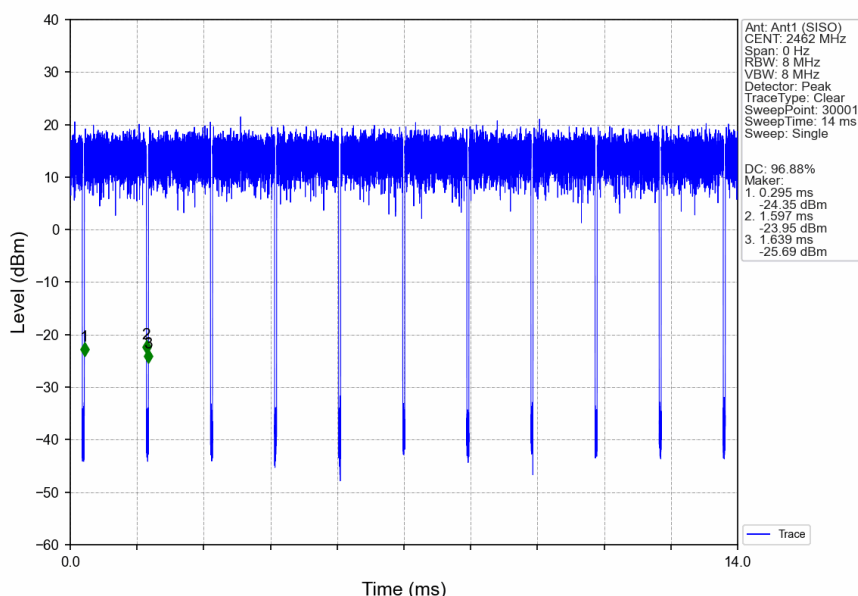
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



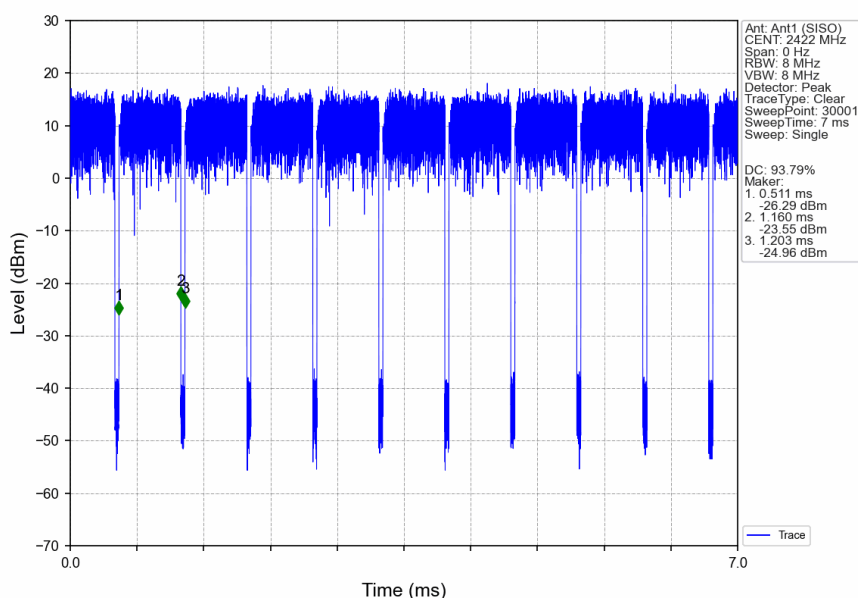
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



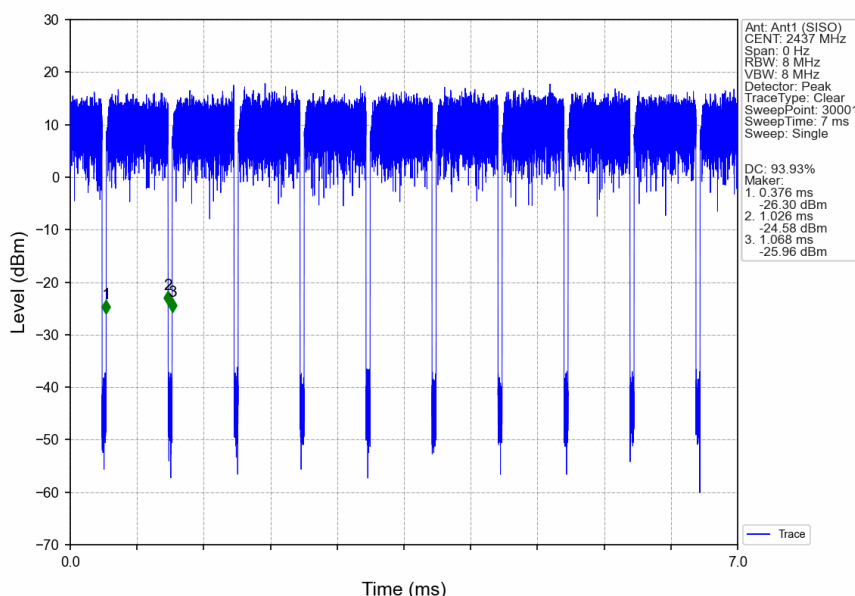
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



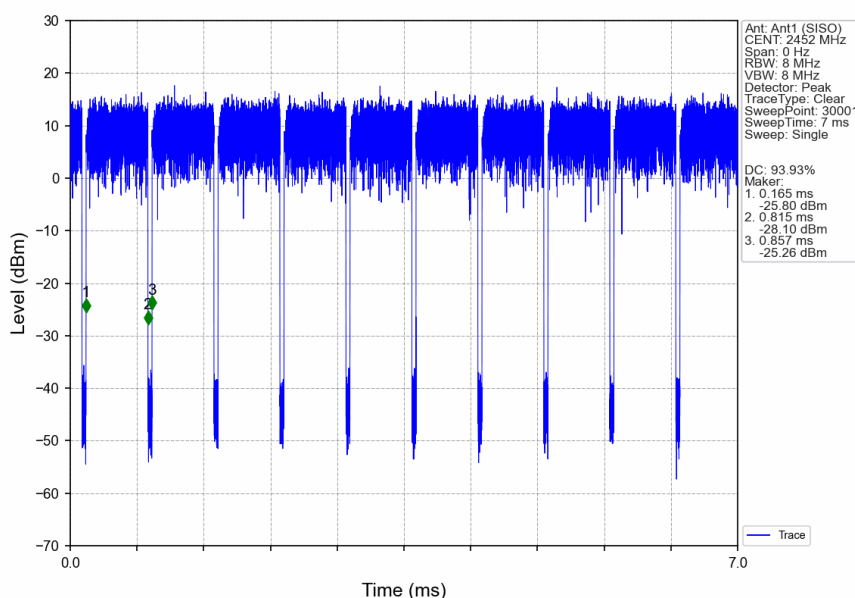
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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2. Maximum Conducted Output Power

2.1 Test Result

2.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	15.99	<=30	Pass
		2437	15.97	<=30	Pass
		2462	15.86	<=30	Pass
802.11g	SISO	2412	13.64	<=30	Pass
		2437	13.92	<=30	Pass
		2462	13.80	<=30	Pass
802.11n (HT20)	SISO	2412	13.54	<=30	Pass
		2437	13.73	<=30	Pass
		2462	13.83	<=30	Pass
802.11n (HT40)	SISO	2422	13.31	<=30	Pass
		2437	13.41	<=30	Pass
		2452	13.39	<=30	Pass

Note1: Antenna Gain: Ant1: -1.26dBi;

- End of the Report -