

TEST REPORT

Application No.: SHCR2307001454AT
FCC ID: 2AH25T6810
IC: 22621-T6810
Applicant: Shanghai Sunmi Technology Co.,Ltd.
Address of Applicant: Room 505, No.388, Song Hu Road, Yang Pu District, Shanghai, China
Manufacturer: Shanghai Sunmi Technology Co.,Ltd.
Address of Manufacturer: Room 505, No.388, Song Hu Road, Yang Pu District, Shanghai, China
Equipment Under Test (EUT):
EUT Name: Smart POS system
Model No.: 2001-100
HVIN: 2001-100
Trade Mark: TOSHIBA
Standard(s) : 47 CFR Part 15, Subpart E 15.407
RSS-247 Issue 2, February 2017
RSS-Gen Issue 5 Amendment 2 (February 2021)
Date of Receipt: 2023-06-07
Date of Test: 2023-06-26 to 2023-07-01
Date of Issue: 2023-07-03

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

Parlan Zhan

Parlan Zhan
Laboratory Manager



Revision Record			
Version	Description	Date	Remark
00	Change model name, trade mark and color	2023-07-18	Based on KSCR221000185704

Authorized for issue by:			
			
		<hr/> Micheal Niu / Project Engineer	
			
		<hr/> Parlam Zhan / Reviewer	



2 Test Summary

Radio Spectrum Matter Part				
Item	FCC Requirement	IC Requirement	Method	Result
Radiated Emissions (Above 1GHz)	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	KDB 789033 D02 II G	Pass
Radiated Emissions (Below 1GHz)	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	KDB 789033 D02 II G	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	KDB 789033 D02 II G	Pass

Note: This report based on report KSCR221000185704, just changing the model name, trade mark and color. The new model 2001-100 added alternative screen, battery compared with original SKU1 (HVIN: T6810H). Considering the differences, only Radiated Emissions which fall in the restricted bands, Radiated Spurious Emissions Below 1GHz and Radiated Spurious Emissions Above 1GHz were tested in this report, other test data please refer to original report.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5V 1A; DC 5V 2A
Adapter information:	Adapter 1: Model: TPA-46B050100UU Input: 100-240V~ 50/60Hz 0.2A Output: 5.0V 1.0A Adapter 2: Model: TPA-23A050200UU01 Input: 100-240V~ 50/60Hz 0.3A Output: 5.0V 2.0A Adapter 3: Model No.: UC11US PRI: 100-240V~50/60Hz 0.2A SEC: 5.0V 1.0A 5.0W
Battery information:	Model 1: TMPA 1ICP6/59/63 Nominal Voltage: 3.8V Limited Charge Voltage: 4.35V Rated Capacity: 2900mAh Model 2: TMPC 1ICP6/59/63 Nominal Voltage: 3.8V Limited Charge Voltage: 4.35V Rated Capacity: 2900mAh
Operation Frequency (20MHz):	U-NII-1: 5180-5240MHz U-NII-3: 5745-5825MHz
Operation Frequency (40MHz):	U-NII-1: 5190-5230MHz U-NII-3: 5755-5795MHz
Operation Frequency (80MHz):	U-NII-1: 5210MHz U-NII-3: 5775MHz
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Data Rate:	802.11a: 6/9/12/18/24/36/48/54 Mbps 802.11n: MCS0~7 802.11ac: MCS0~9
Channel Spacing:	802.11a/n(HT20)/ac(HT20): 20MHz; 802.11n(HT40)/ac(HT40): 40MHz 802.11ac(HT80): 80MHz
DFS Function:	Without DFS function
TPC Function:	Without TPC function
Antenna Type:	FPC Antenna
Antenna Gain:	-0.6dBi (Provided by the manufacturer)
SN:	PC17D37R10018
Firmware version:	V1.0.0



4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
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The EUT has been tested as an independent unit.			

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab
 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China
 Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

4.5 Test Facility

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

• A2LA (Certificate No. 6332.01)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• FCC (Designation Number: CN1301)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• ISED (CAB Identifier: CN0020)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

• VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2022-12-20	2023-12-19
Spectrum Analyzer	Keysight	N9020B	SHEM241-1	2022-12-20	2023-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2022-08-02	2023-08-01
Signal Generator	R&S	SMR20	SHEM006-1	2022-08-02	2023-08-01
Signal Generator	Agilent	N5182A	SHEM182-1	2022-08-02	2023-08-01
Communication Tester	R&S	CMW270	SHEM183-1	2023-06-01	2024-05-31
Communication Tester	R&S	CMW500	SHEM268-1	2023-06-01	2024-05-31
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2022-08-02	2023-08-01
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2022-11-08	2024-11-07
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2022-12-20	2023-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2022-12-20	2023-12-19
Conducted test Cable	/	RF01~RF04	/	2022-12-20	2023-12-19
Switcher	Tonscend	JS0806	SHEM184-1	2022-08-02	2023-08-01
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	/
Coaxial Cable	TST		SHEM263-1	2022-08-02	2023-08-01
Test software	TST	TST PASS	Version: 2.0	/	/
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2022-12-20	2023-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2022-12-20	2023-12-19
Communication Tester	R&S	CMW500	SHEM268-1	2023-06-01	2024-05-31
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2022-12-20	2023-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2021-09-11	2023-09-10
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2022-05-07	2024-05-06
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2022-08-11	2024-08-10
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2021-09-18	2023-09-17
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2021-09-18	2023-09-17
Pre-Amplifier	HP	8447D	SHEM236-1	2022-08-02	2023-08-01
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2022-12-20	2023-12-19
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2021-05-25	2024-05-24
RE test Cable	/	RE01, RE02, RE06	/	2023-01-07	2024-01-06
Test software	ESE	E3	Version: 6.111221a	/	/



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6 Radio Spectrum Matter Test Results

6.1 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3
<p>*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(4) For transmitters operating in the 5.725-5.85 GHz band:</p> <p>(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <p>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.</p>		

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

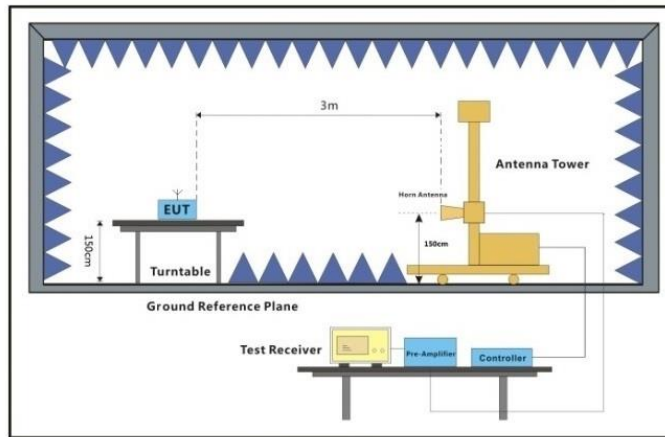
6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20,n40,ac20,ac40,ac80, Only the data of worst case is recorded in the report.



Final test	06	TX mode (U-NII-3) _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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20,n40,ac20,ac40,ac80, Only the data of worst case is recorded in the report.
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6.1.3 Test Setup Diagram



Above 1GHz



6.1.4 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:

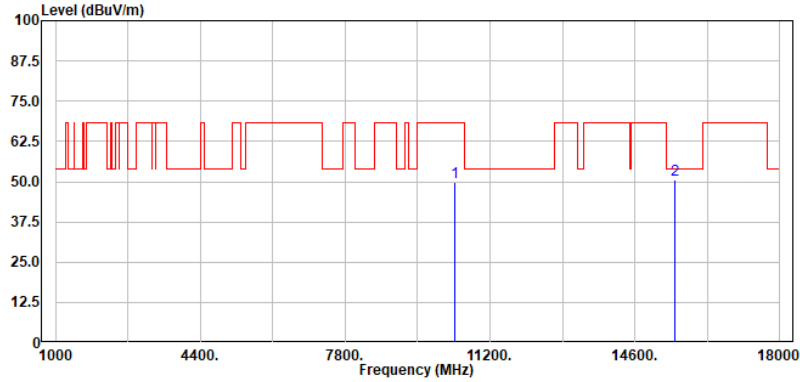
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions 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 disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
- 6: We have evaluated different adapters and battery modes. The battery mode is the worst, and only the battery mode is tested finally.



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



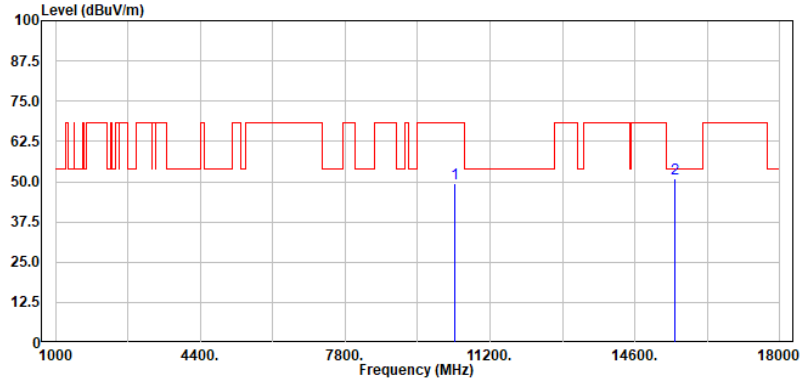
Antenna Polarity :Horizontal

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	10360.00	50.33	38.97	6.10	45.72	49.68	68.30	-18.62	Peak
	15540.00	50.06	37.97	7.44	45.03	50.44	54.00	-3.56	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Vertical

No.	Read Freq MHz	Read level dBuV	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark
	10360.00	50.17	38.97	6.10	45.72	49.52	68.30	-18.78	Peak
	15540.00	50.39	37.97	7.44	45.03	50.77	54.00	-3.23	Peak

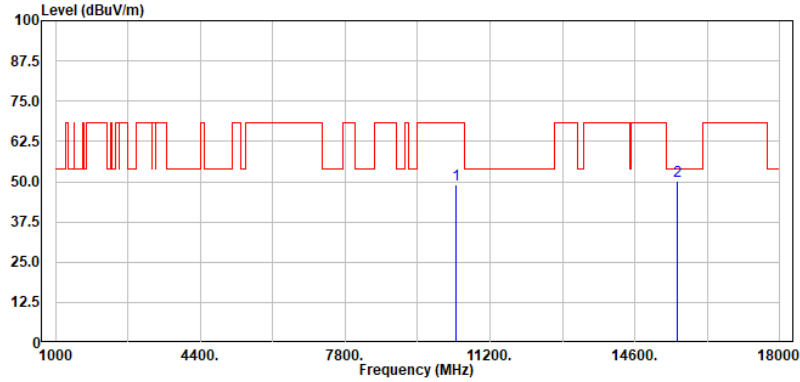
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



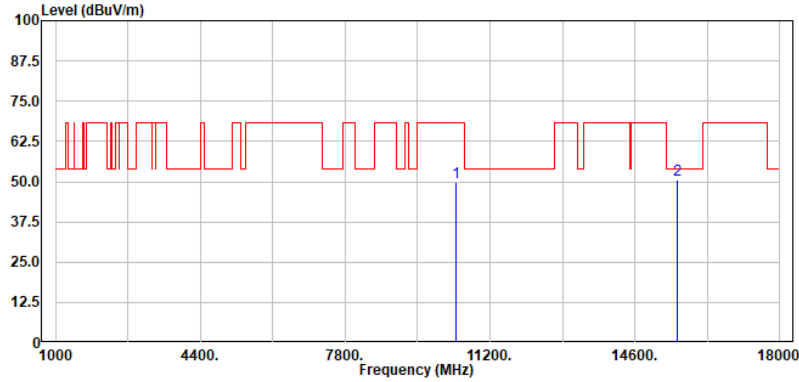
Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	10400.00	49.64	39.01	6.12	45.69	49.08	68.30	-19.22	Peak
	15600.00	49.97	37.79	7.45	45.00	50.21	54.00	-3.79	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Antenna Polarity :Vertical

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	10400.00	50.29	39.01	6.12	45.69	49.73	68.30	-18.57	Peak
	15600.00	50.20	37.79	7.45	45.00	50.44	54.00	-3.56	Peak

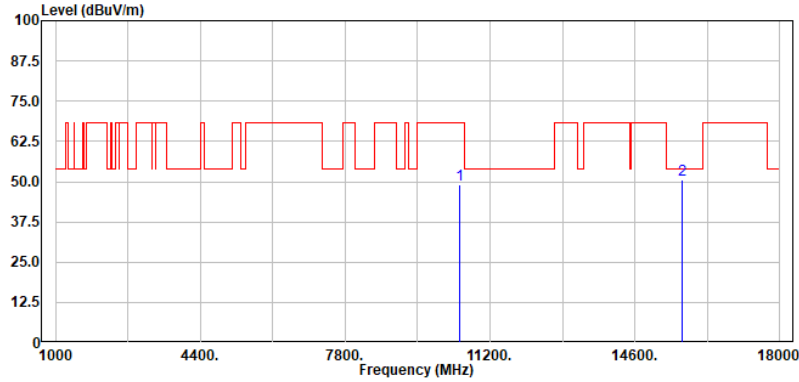
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



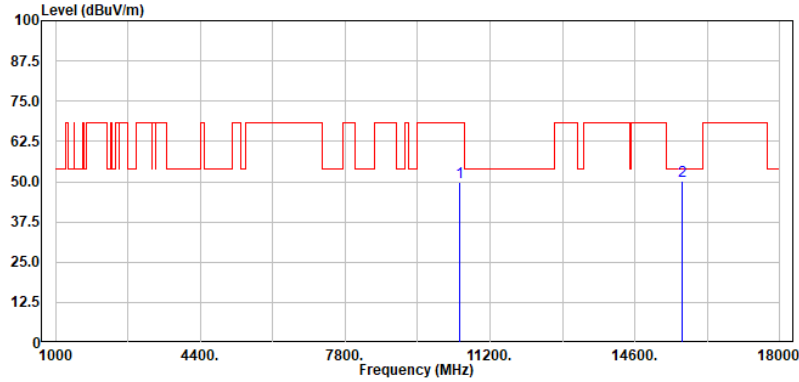
Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	10480.00	49.40	39.09	6.17	45.63	49.03	68.30	-19.27	Peak
	15720.00	50.72	37.44	7.46	44.95	50.67	54.00	-3.33	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



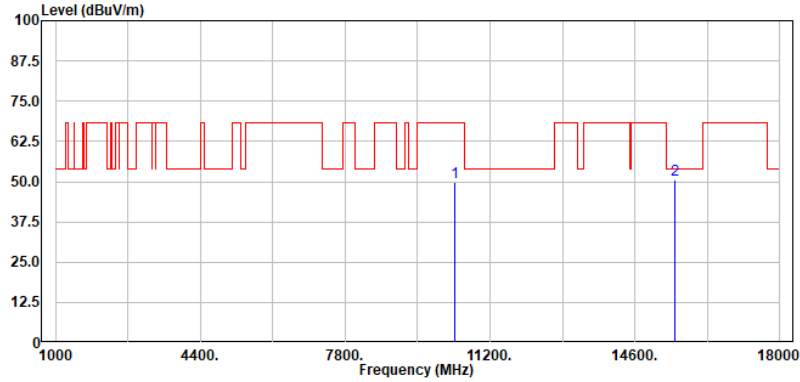
Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	10480.00	50.16	39.09	6.17	45.63	49.79	68.30	-18.51	Peak
	15720.00	50.27	37.44	7.46	44.95	50.22	54.00	-3.78	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



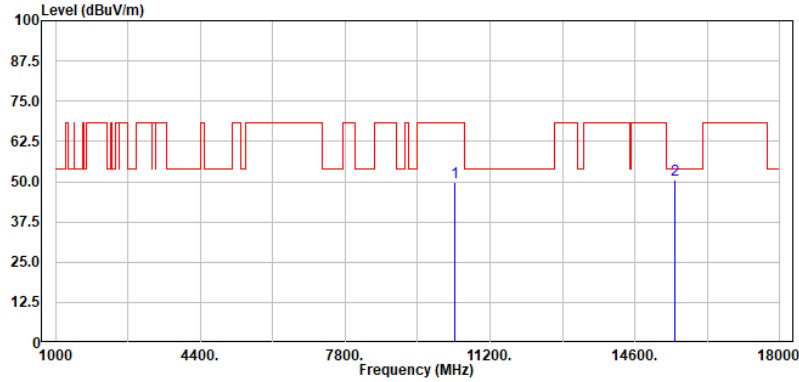
Antenna Polarity :Horizontal

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	10360.00	50.36	38.97	6.10	45.72	49.71	68.30	-18.59	Peak
	15540.00	50.20	37.97	7.44	45.03	50.58	54.00	-3.42	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



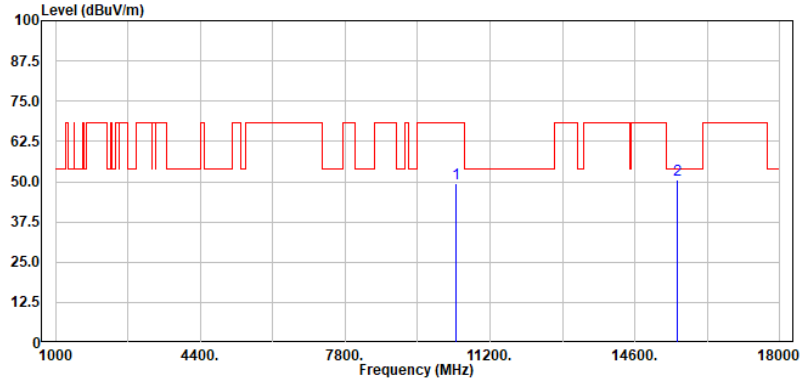
Antenna Polarity :Vertical

No.	Read Freq	Antenna level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB		
	10360.00	50.38	38.97	6.10	45.72	49.73	68.30	-18.57	Peak
	15540.00	50.19	37.97	7.44	45.03	50.57	54.00	-3.43	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



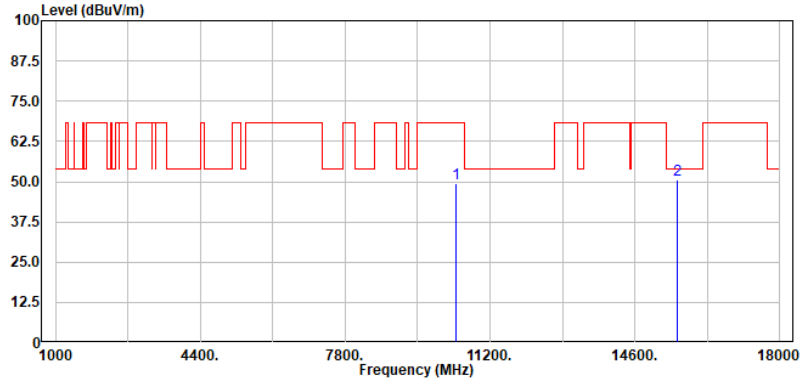
Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	10400.00	49.87	39.01	6.12	45.69	49.31	68.30	-18.99	Peak
	15600.00	50.45	37.79	7.45	45.00	50.69	54.00	-3.31	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



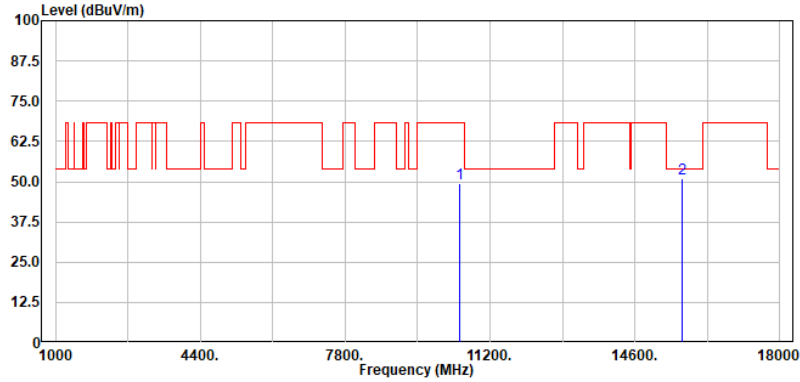
Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	10400.00	50.01	39.01	6.12	45.69	49.45	68.30	-18.85	Peak
	15600.00	50.43	37.79	7.45	45.00	50.67	54.00	-3.33	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :Horizontal

No.	Read Freq	Antenna level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB		
	10480.00	49.88	39.09	6.17	49.51	68.30	-18.79	Peak	
	15720.00	50.92	37.44	7.46	50.87	54.00	-3.13	Peak	

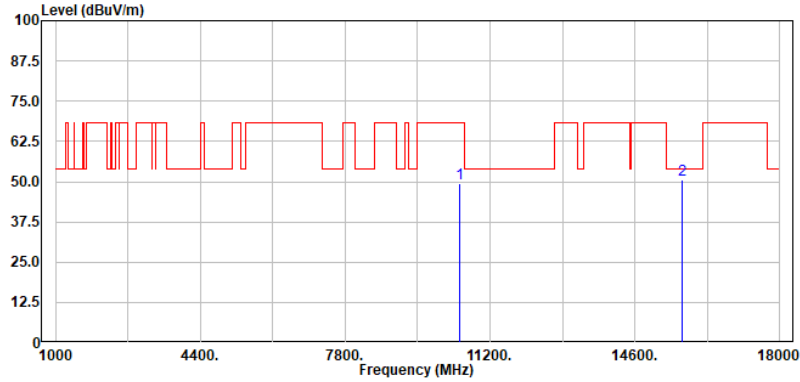
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



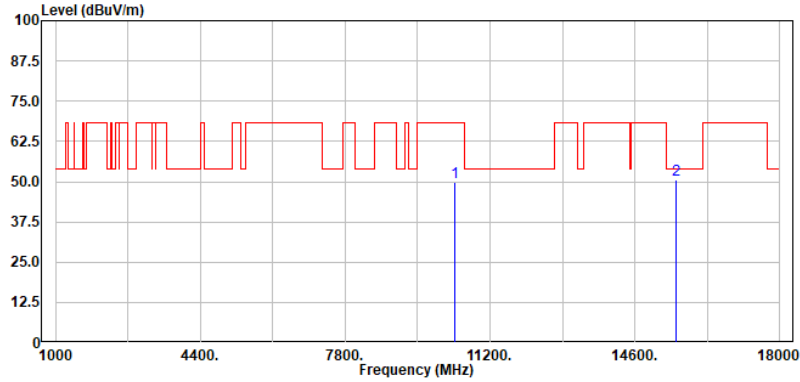
Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	10480.00	49.72	39.09	6.17	45.63	49.35	68.30	-18.95	Peak
	15720.00	50.65	37.44	7.46	44.95	50.60	54.00	-3.40	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



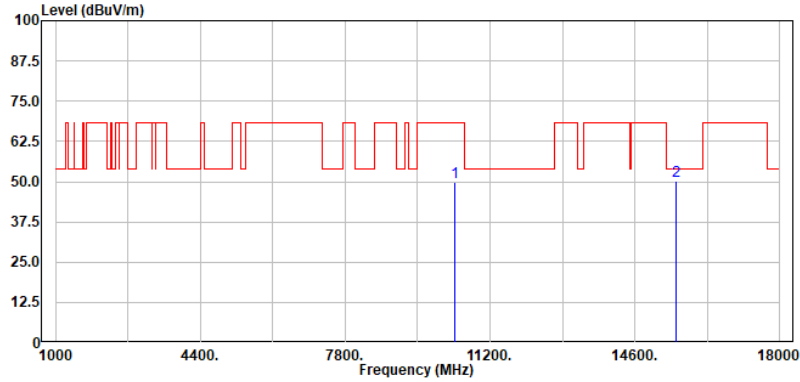
Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	10380.00	50.53	38.99	6.11	45.71	49.92	68.30	-18.38	Peak
	15570.00	50.42	37.88	7.44	45.02	50.72	54.00	-3.28	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



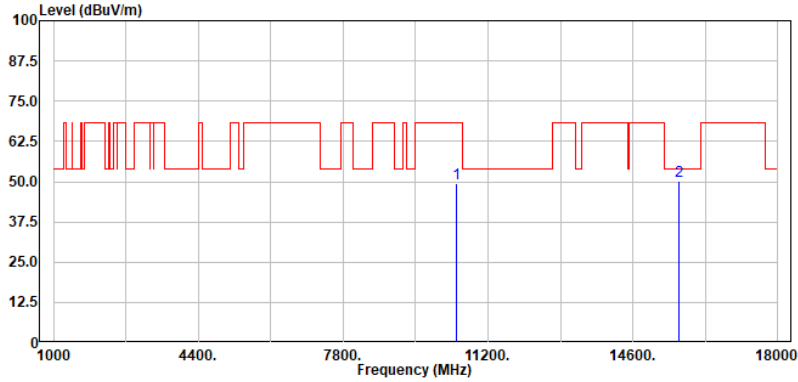
Antenna Polarity :Vertical

No.	Read Freq	Antenna level	Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	10380.00	50.40	38.99	6.11	45.71	49.79	68.30	-18.51	Peak
	15570.00	50.02	37.88	7.44	45.02	50.32	54.00	-3.68	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	10460.00	49.80	39.07	6.16	45.65	49.38	68.30	-18.92	Peak
	15690.00	50.20	37.52	7.46	44.96	50.22	54.00	-3.78	Peak

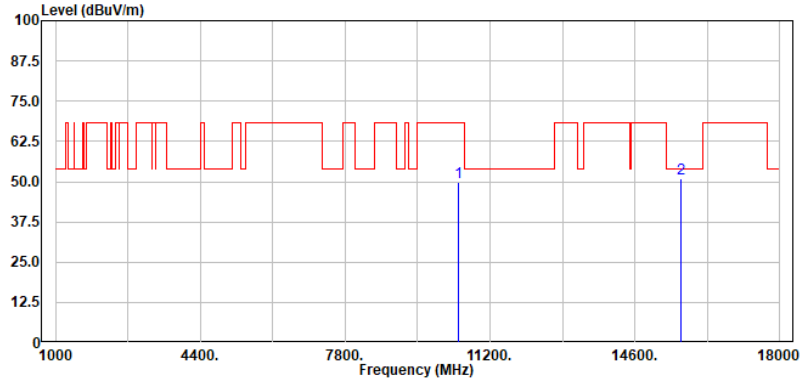
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



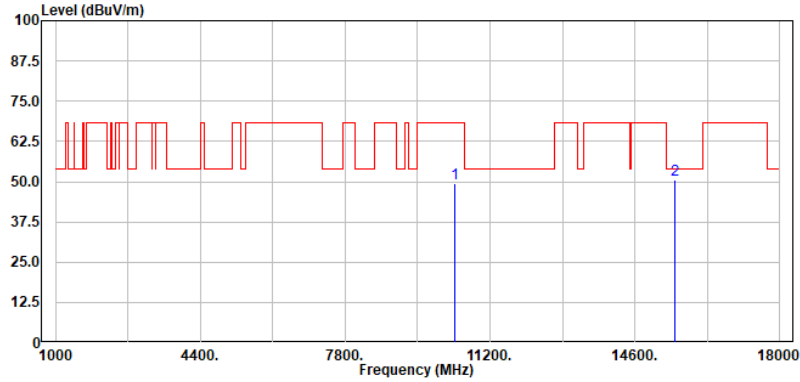
Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	10460.00	50.25	39.07	6.16	45.65	49.83	68.30	-18.47	Peak
	15690.00	50.75	37.52	7.46	44.96	50.77	54.00	-3.23	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



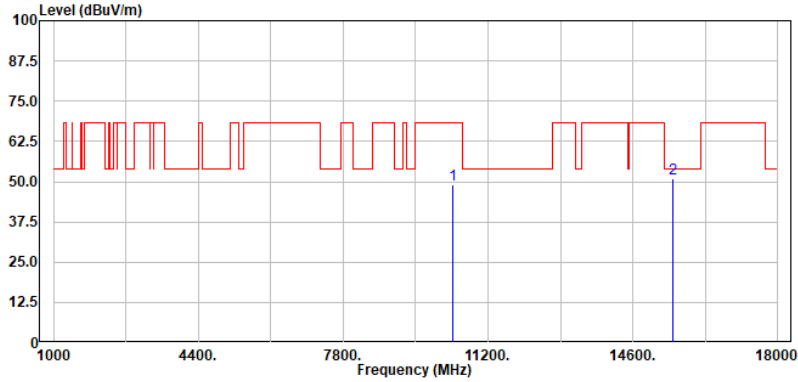
Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	10360.00	50.08	38.97	6.10	45.72	49.43	68.30	-18.87	Peak
	15540.00	50.30	37.97	7.44	45.03	50.68	54.00	-3.32	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	10360.00	49.69	38.97	6.10	45.72	49.04	68.30	-19.26	Peak
	15540.00	50.54	37.97	7.44	45.03	50.92	54.00	-3.08	Peak

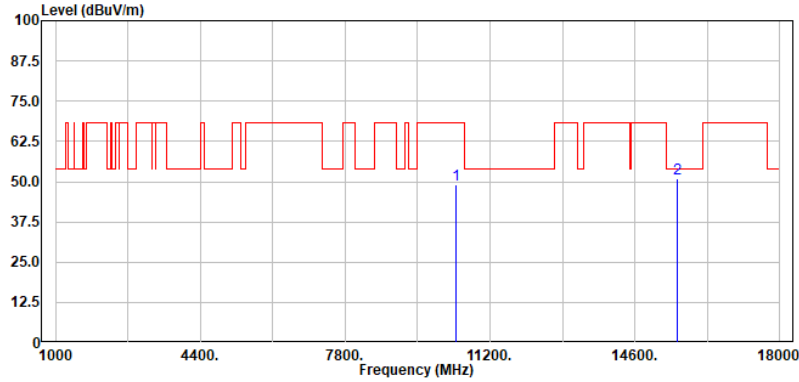
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11 ac; Bandwidth:20MHz; Channel:middle



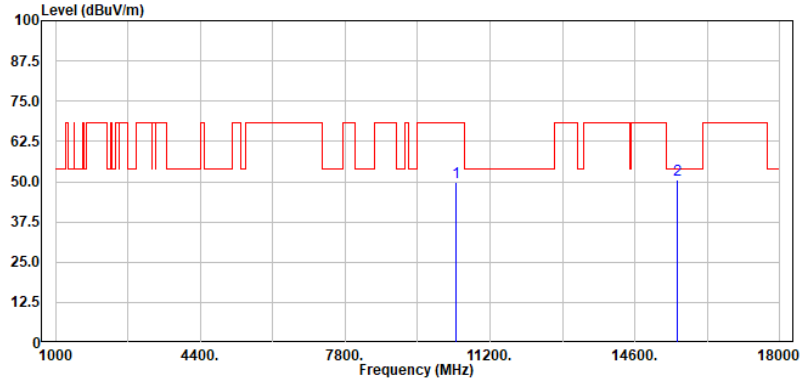
Antenna Polarity :Horizontal

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	10400.00	49.72	39.01	6.12	45.69	49.16	68.30	-19.14	Peak
	15600.00	50.74	37.79	7.45	45.00	50.98	54.00	-3.02	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



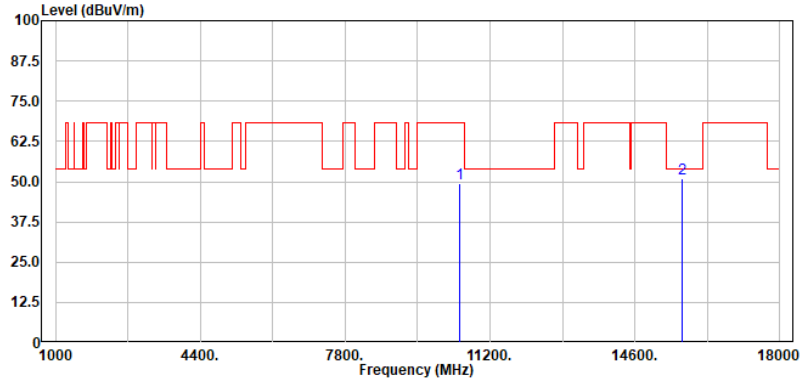
Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	10400.00	50.27	39.01	6.12	45.69	49.71	68.30	-18.59	Peak
	15600.00	50.41	37.79	7.45	45.00	50.65	54.00	-3.35	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



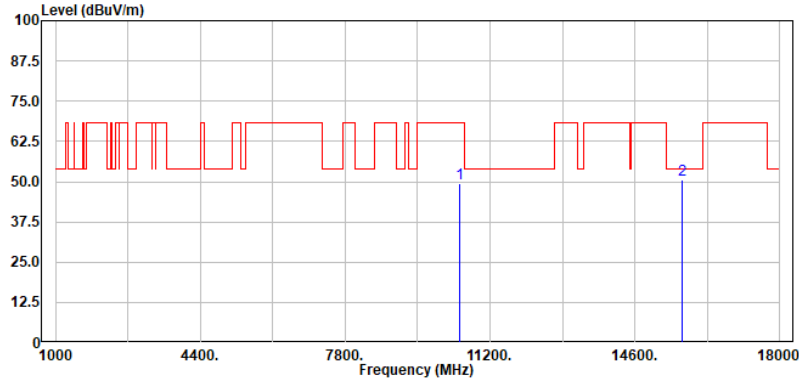
Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	10480.00	49.84	39.09	6.17	45.63	49.47	68.30	-18.83	Peak
	15720.00	50.84	37.44	7.46	44.95	50.79	54.00	-3.21	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Antenna Polarity :Vertical

No.	Read Freq	Antenna level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB		
	10480.00	49.74	39.09	6.17	49.37	68.30	-18.93	Peak	
	15720.00	50.53	37.44	7.46	50.48	54.00	-3.52	Peak	

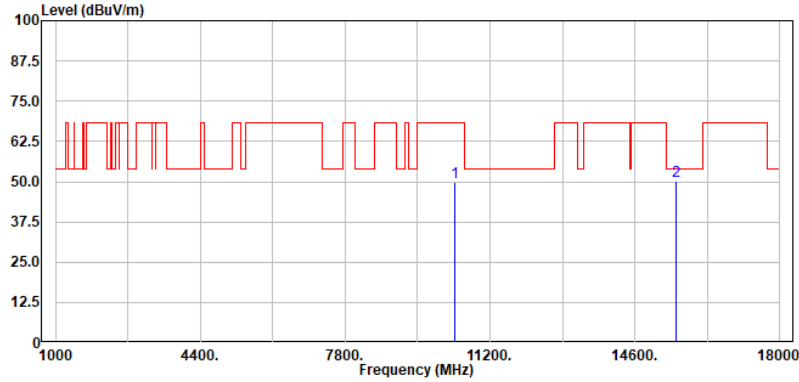
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



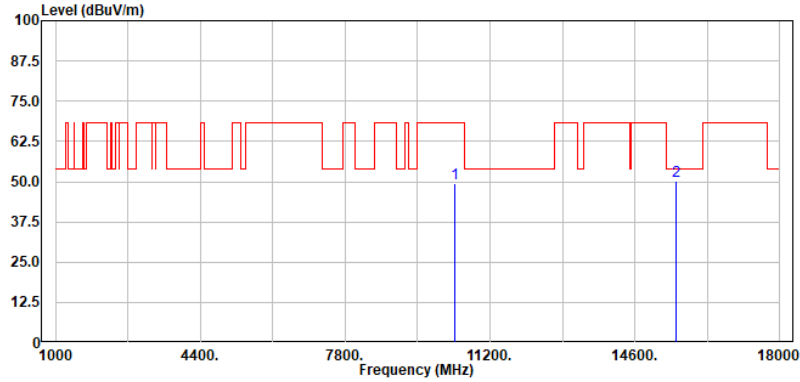
Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	10380.00	50.27	38.99	6.11	45.71	49.66	68.30	-18.64	Peak
	15570.00	49.82	37.88	7.44	45.02	50.12	54.00	-3.88	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



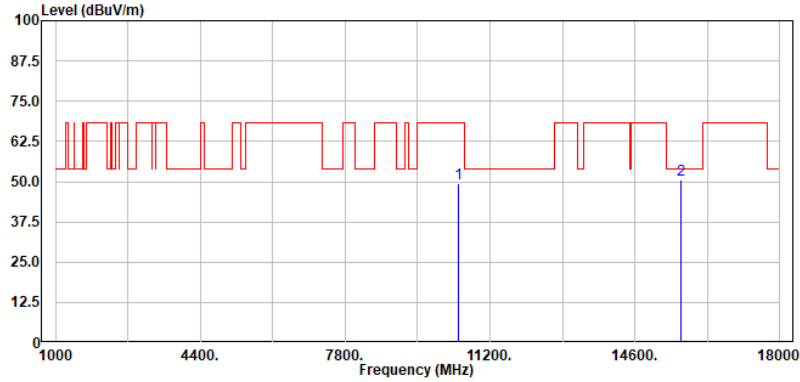
Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	10380.00	50.01	38.99	6.11	45.71	49.40	68.30	-18.90	Peak
	15570.00	49.91	37.88	7.44	45.02	50.21	54.00	-3.79	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



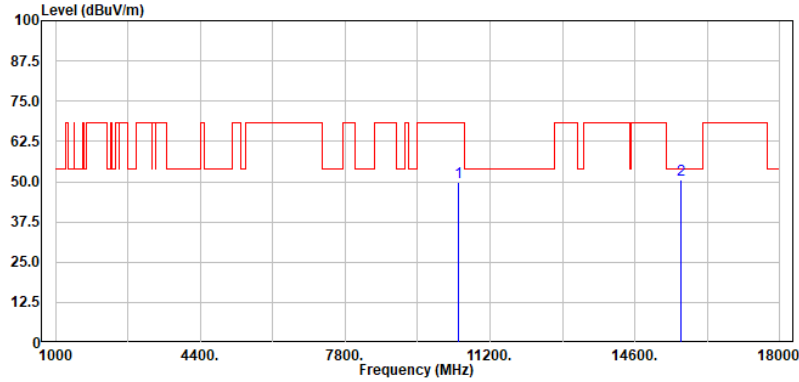
Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	10460.00	50.00	39.07	6.16	45.65	49.58	68.30	-18.72	Peak
	15690.00	50.58	37.52	7.46	44.96	50.60	54.00	-3.40	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



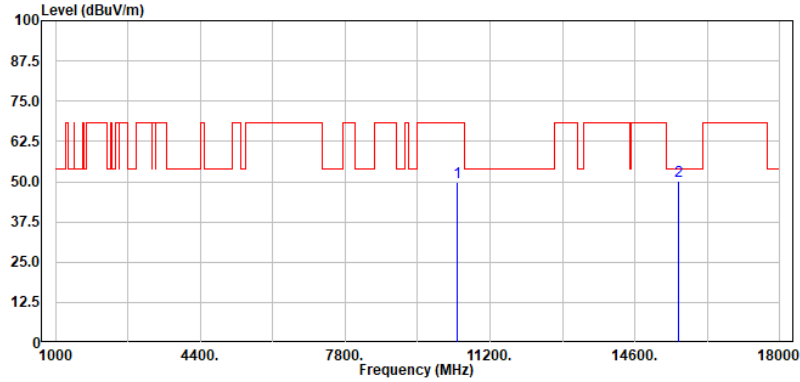
Antenna Polarity :Vertical

No.	Read Freq	Antenna level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	10460.00	50.28	39.07	6.16	45.65	49.86	68.30	-18.44	Peak
	15690.00	50.44	37.52	7.46	44.96	50.46	54.00	-3.54	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Horizontal; Modulation:802.11 ac; Bandwidth:80MHz; Channel:middle



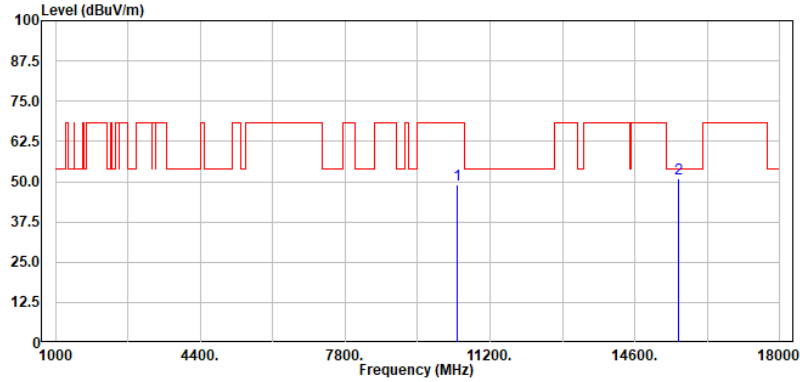
Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	10420.00	50.37	39.03	6.13	45.68	49.85	68.30	-18.45	Peak
	15630.00	50.20	37.70	7.45	44.99	50.36	54.00	-3.64	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



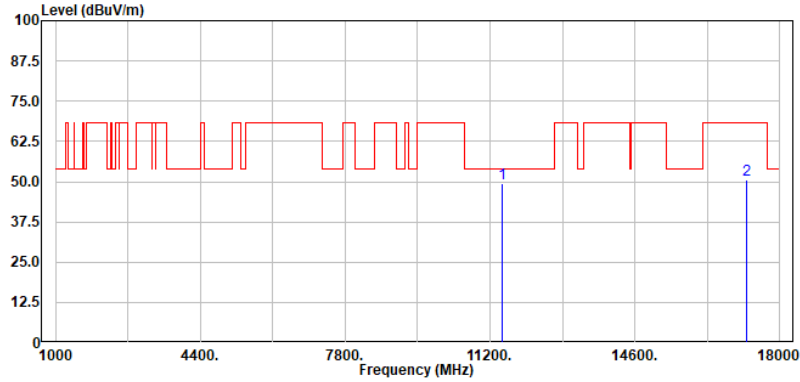
Antenna Polarity :Vertical

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	10420.00	49.54	39.03	6.13	45.68	49.02	68.30	-19.28	Peak
	15630.00	50.67	37.70	7.45	44.99	50.83	54.00	-3.17	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



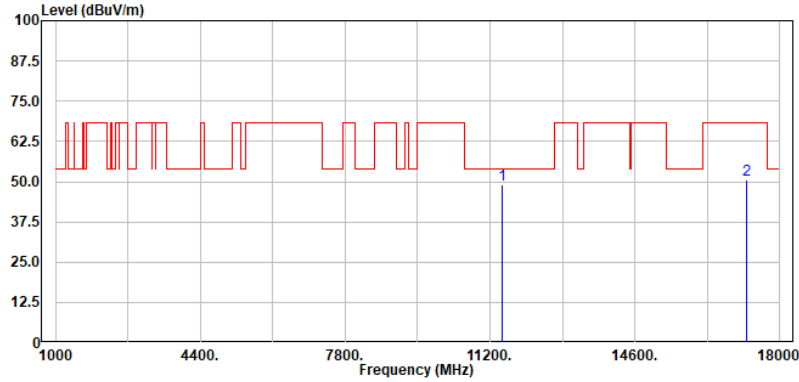
Antenna Polarity :Horizontal

No.	Read Freq	Antenna level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	11490.00	49.47	39.15	6.55	45.70	49.47	54.00	-4.53	Peak
	17235.00	46.20	40.56	8.15	44.27	50.64	68.30	-17.66	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



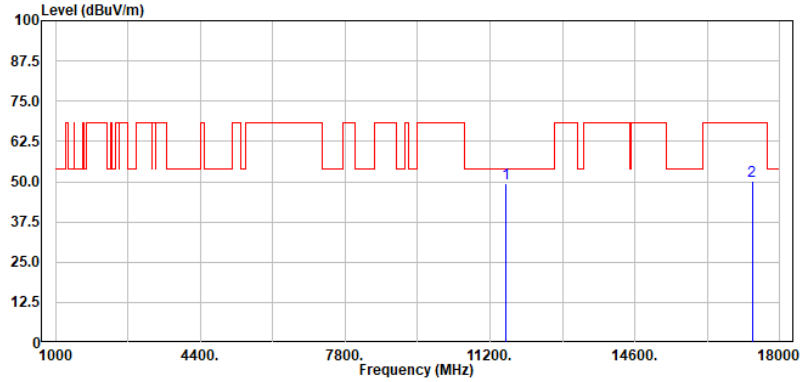
Antenna Polarity :Vertical

No.	Read Freq	Antenna level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dB	
	11490.00	49.18	39.15	6.55	45.70	54.00	-4.82	Peak
	17235.00	45.97	40.56	8.15	44.27	68.30	-17.89	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



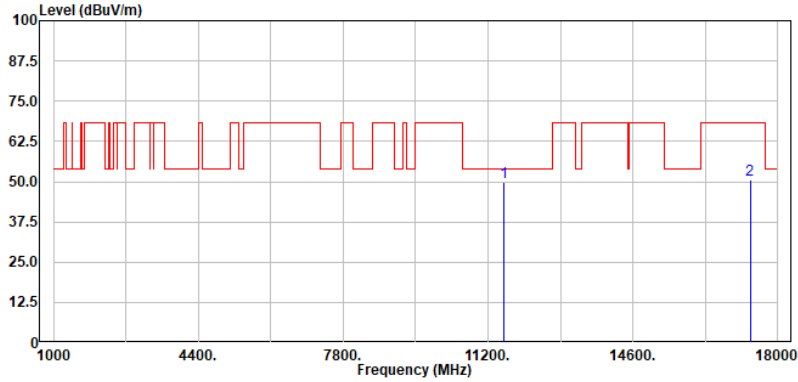
Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	11570.00	49.37	39.11	6.56	45.71	49.33	54.00	-4.67	Peak
	17355.00	45.49	40.88	8.21	44.23	50.35	68.30	-17.95	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



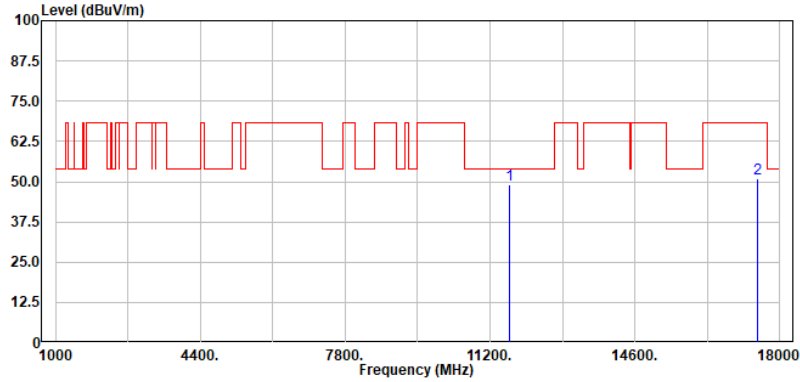
Antenna Polarity :Vertical

No.	Read Freq	Antenna level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	11570.00	49.91	39.11	6.56	45.71	49.87	54.00	-4.13	Peak
	17355.00	45.83	40.88	8.21	44.23	50.69	68.30	-17.61	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



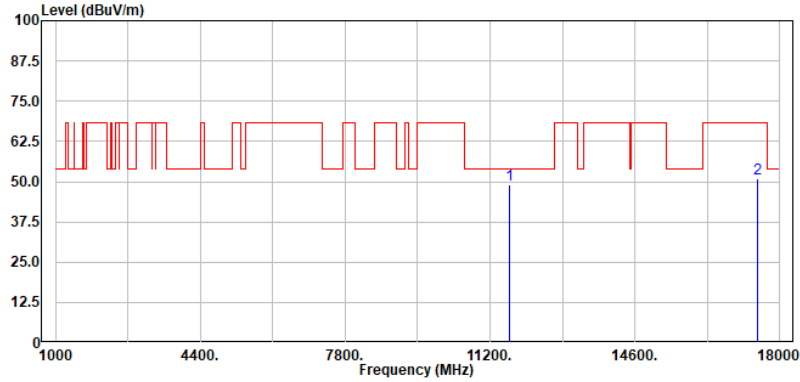
Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	11650.00	49.33	39.07	6.58	45.75	49.23	54.00	-4.77	Peak
	17475.00	45.29	41.35	8.37	44.18	50.83	68.30	-17.47	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



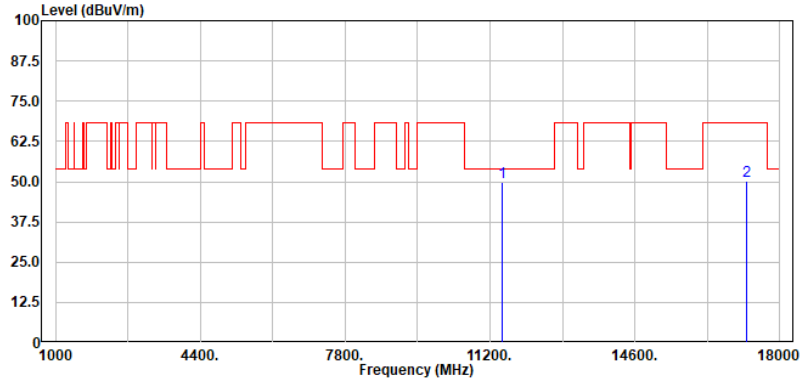
Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	11650.00	49.27	39.07	6.58	45.75	49.17	54.00	-4.83	Peak
	17475.00	45.35	41.35	8.37	44.18	50.89	68.30	-17.41	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



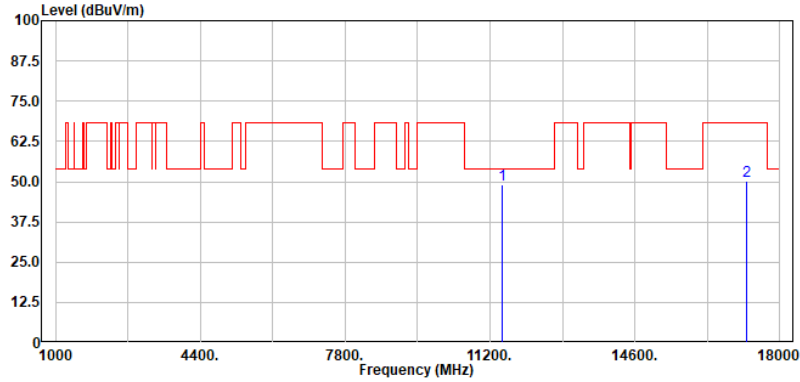
Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	11490.00	49.77	39.15	6.55	45.70	49.77	54.00	-4.23	Peak
	17235.00	45.82	40.56	8.15	44.27	50.26	68.30	-18.04	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Vertical

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	11490.00	49.07	39.15	6.55	45.70	49.07	54.00	-4.93	Peak
	17235.00	45.60	40.56	8.15	44.27	50.04	68.30	-18.26	Peak

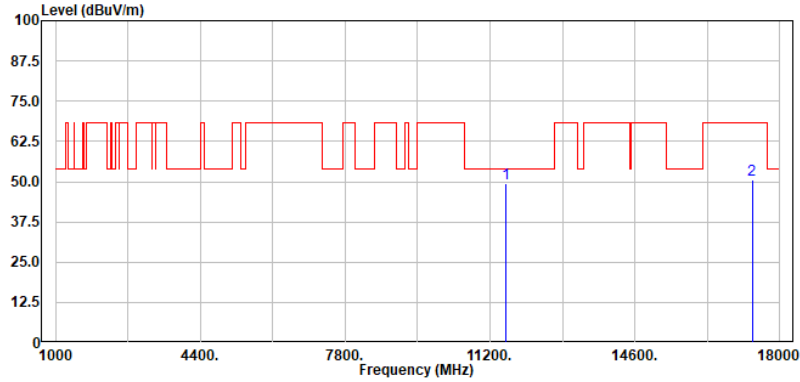
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



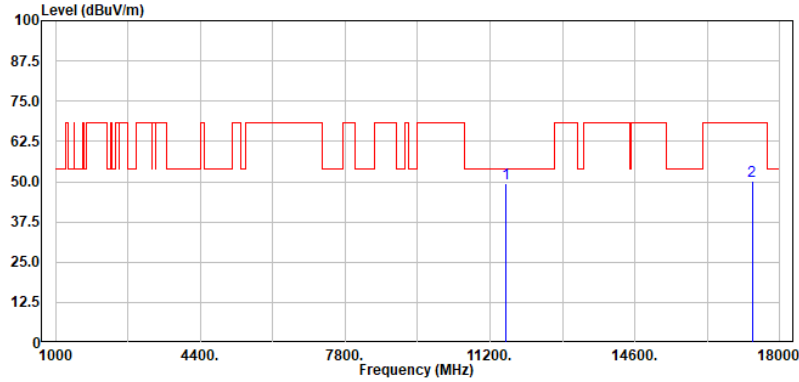
Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	11570.00	49.51	39.11	6.56	45.71	49.47	54.00	-4.53	Peak
	17355.00	45.84	40.88	8.21	44.23	50.70	68.30	-17.60	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



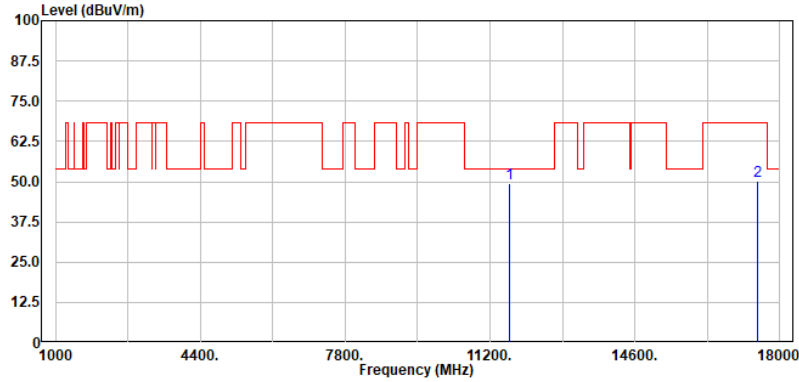
Antenna Polarity :Vertical

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	11570.00	49.57	39.11	6.56	45.71	49.53	54.00	-4.47	Peak
	17355.00	45.48	40.88	8.21	44.23	50.34	68.30	-17.96	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	11650.00	49.72	39.07	6.58	45.75	49.62	54.00	-4.38	Peak
	17475.00	44.62	41.35	8.37	44.18	50.16	68.30	-18.14	Peak

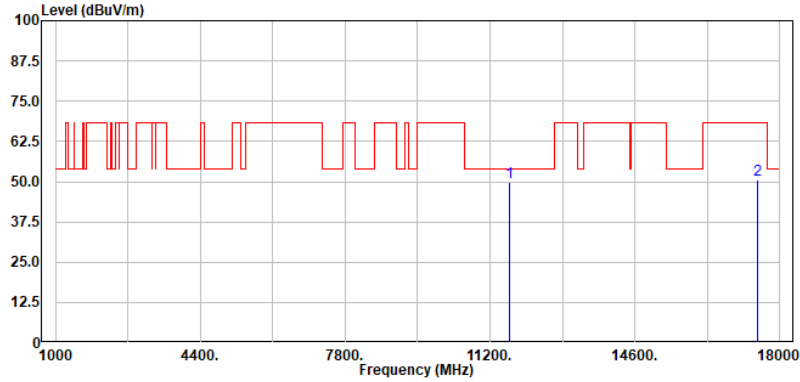
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



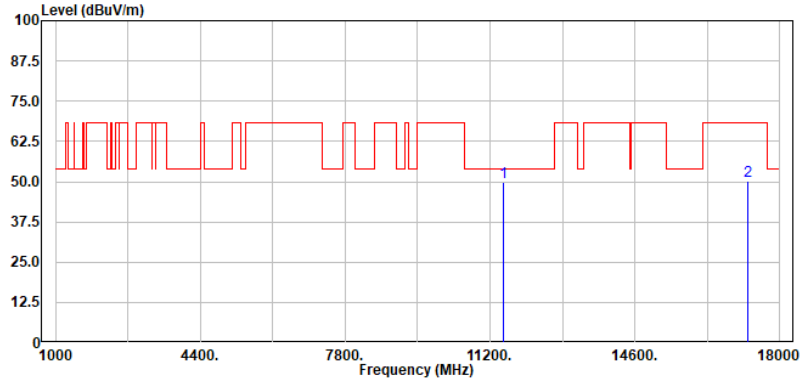
Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	11650.00	49.92	39.07	6.58	45.75	49.82	54.00	-4.18	Peak
	17475.00	45.14	41.35	8.37	44.18	50.68	68.30	-17.62	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



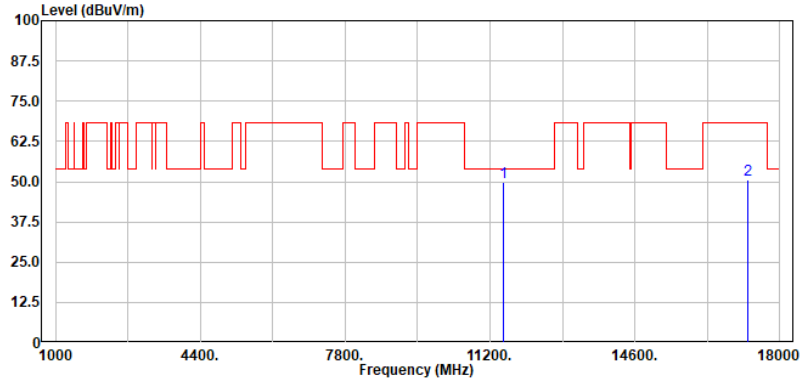
Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	11510.00	49.85	39.14	6.55	45.68	49.86	54.00	-4.14	Peak
	17265.00	45.73	40.64	8.17	44.26	50.28	68.30	-18.02	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



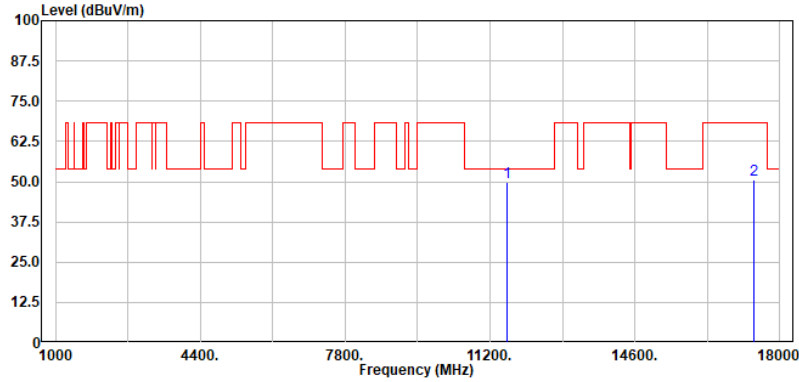
Antenna Polarity :Vertical

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	11510.00	49.76	39.14	6.55	45.68	49.77	54.00	-4.23	Peak
	17265.00	46.08	40.64	8.17	44.26	50.63	68.30	-17.67	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	11590.00	49.81	39.10	6.57	45.72	49.76	54.00	-4.24	Peak
	17385.00	45.56	40.95	8.23	44.21	50.53	68.30	-17.77	Peak

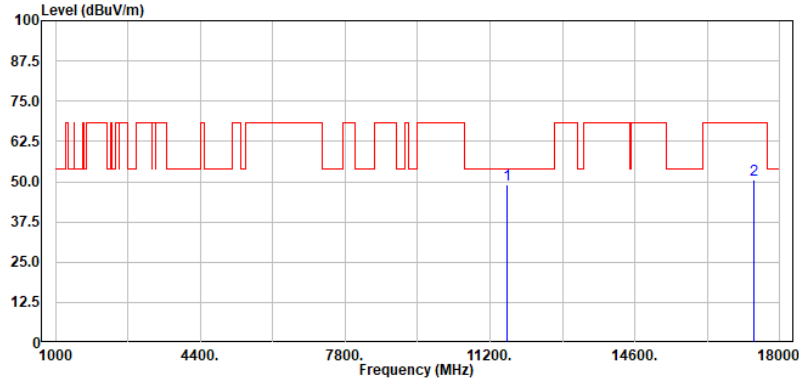
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



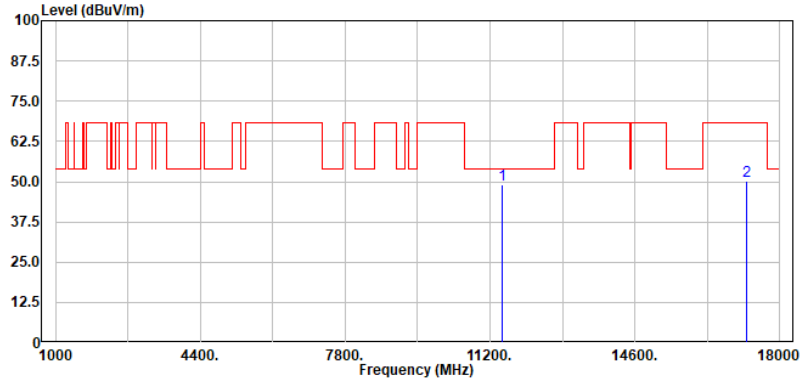
Antenna Polarity :Vertical

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	11590.00	49.08	39.10	6.57	45.72	49.03	54.00	-4.97	Peak
	17385.00	45.74	40.95	8.23	44.21	50.71	68.30	-17.59	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



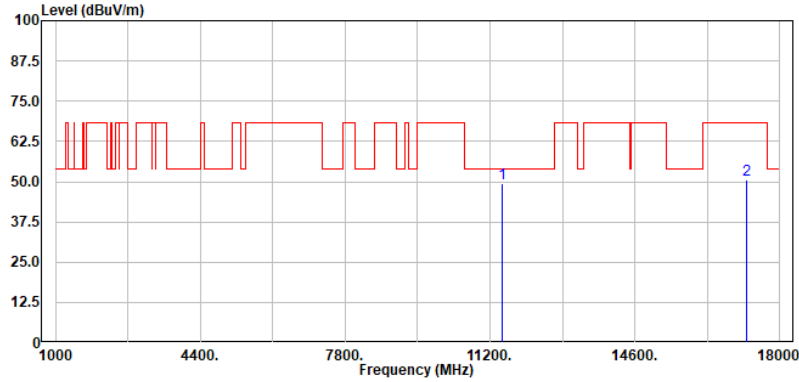
Antenna Polarity :Horizontal

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	11490.00	49.21	39.15	6.55	45.70	49.21	54.00	-4.79	Peak
	17235.00	45.62	40.56	8.15	44.27	50.06	68.30	-18.24	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



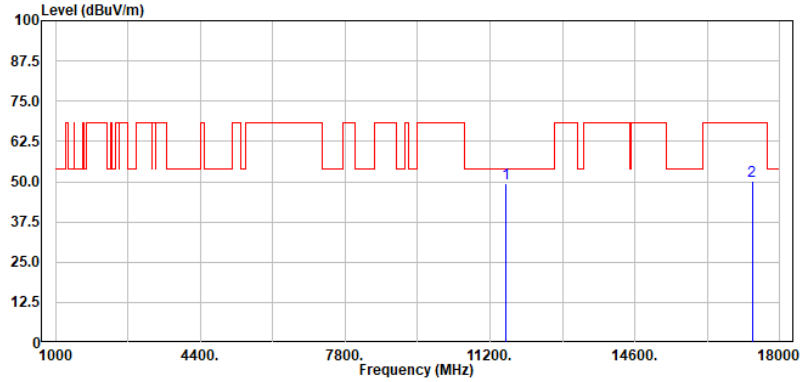
Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	11490.00	49.41	39.15	6.55	45.70	49.41	54.00	-4.59	Peak
	17235.00	46.15	40.56	8.15	44.27	50.59	68.30	-17.71	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Antenna Polarity :Horizontal

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	11570.00	49.63	39.11	6.56	45.71	49.59	54.00	-4.41	Peak
	17355.00	45.23	40.88	8.21	44.23	50.09	68.30	-18.21	Peak

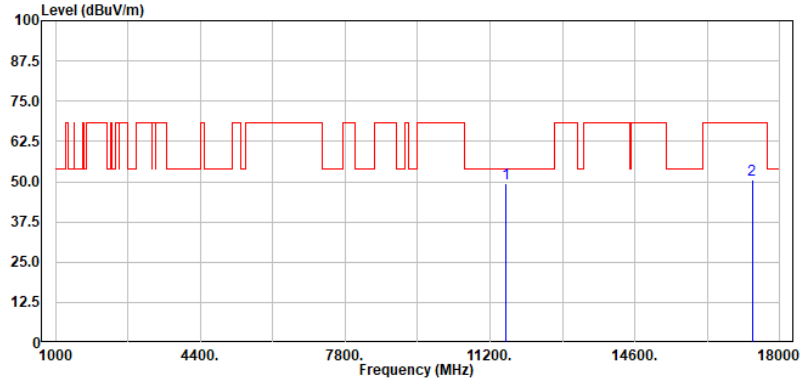
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



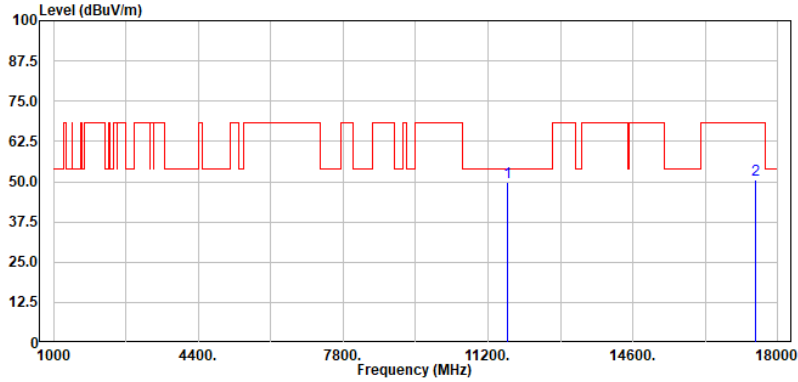
Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	11570.00	49.29	39.11	6.56	45.71	49.25	54.00	-4.75	Peak
	17355.00	45.59	40.88	8.21	44.23	50.45	68.30	-17.85	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Antenna Polarity :Horizontal

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	11650.00	49.75	39.07	6.58	45.75	49.65	54.00	-4.35	Peak
	17475.00	45.16	41.35	8.37	44.18	50.70	68.30	-17.60	Peak

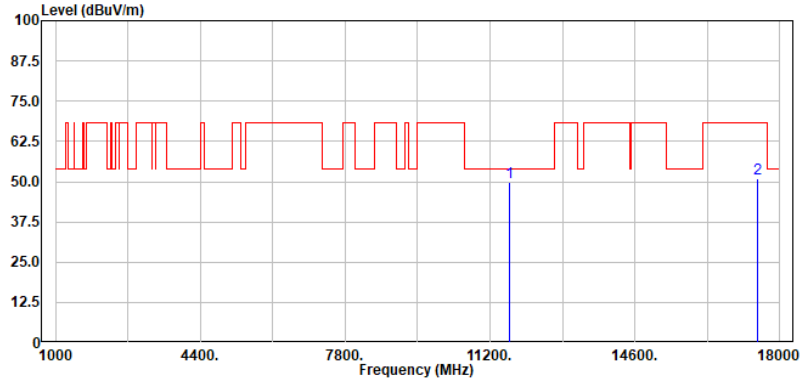
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



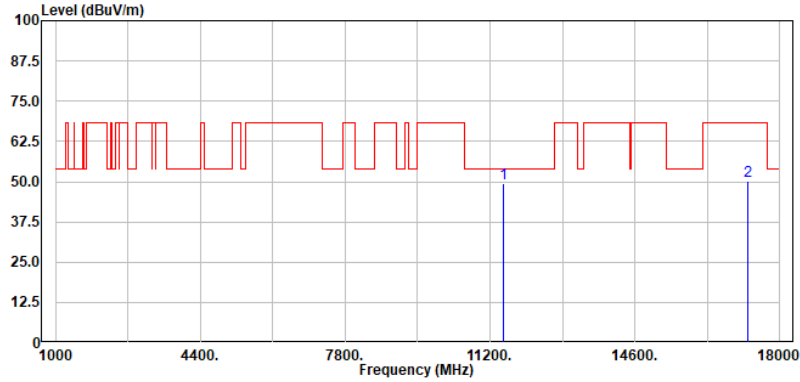
Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	11650.00	49.89	39.07	6.58	45.75	49.79	54.00	-4.21	Peak
	17475.00	45.24	41.35	8.37	44.18	50.78	68.30	-17.52	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



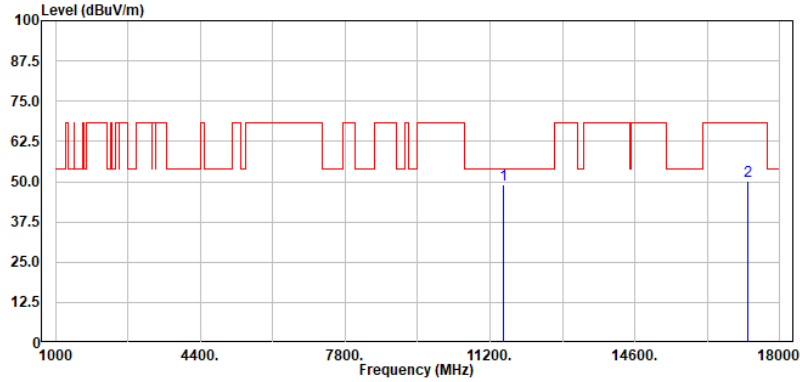
Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	11510.00	49.55	39.14	6.55	45.68	49.56	54.00	-4.44	Peak
	17265.00	45.51	40.64	8.17	44.26	50.06	68.30	-18.24	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



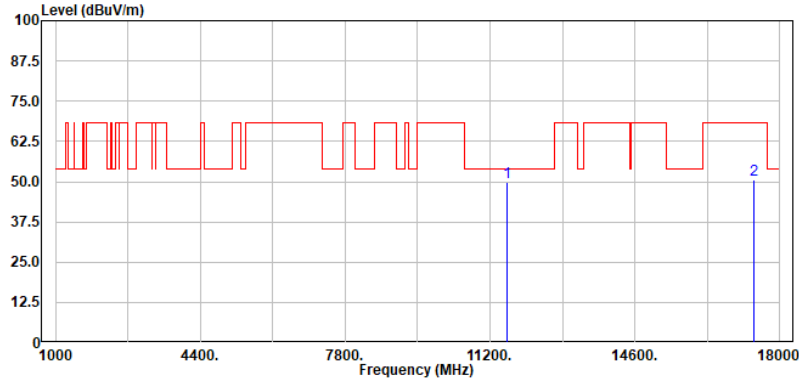
Antenna Polarity :Vertical

No.	Read Freq	Antenna level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	11510.00	49.18	39.14	6.55	45.68	49.19	54.00	-4.81	Peak
	17265.00	45.66	40.64	8.17	44.26	50.21	68.30	-18.09	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



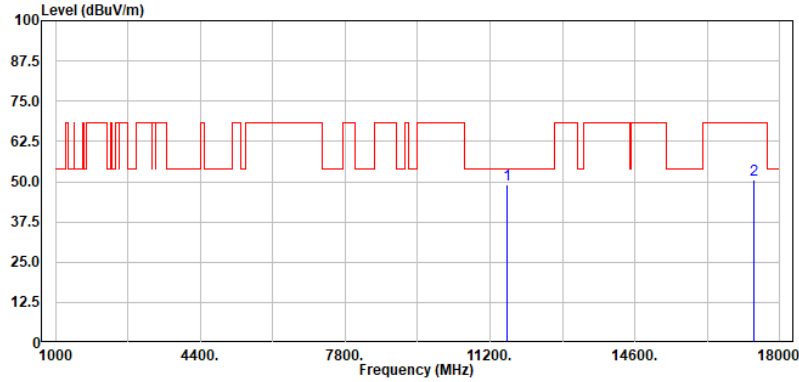
Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	11590.00	49.92	39.10	6.57	45.72	49.87	54.00	-4.13	Peak
	17385.00	45.67	40.95	8.23	44.21	50.64	68.30	-17.66	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



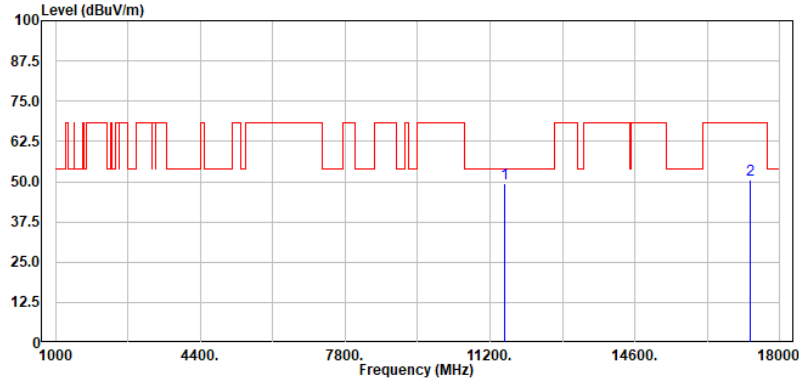
Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	11590.00	49.08	39.10	6.57	45.72	49.03	54.00	-4.97	Peak
	17385.00	45.50	40.95	8.23	44.21	50.47	68.30	-17.83	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



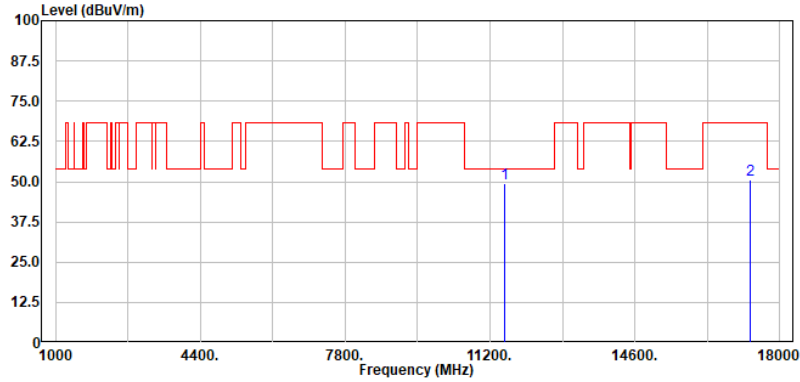
Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	11550.00	49.61	39.12	6.56	45.70	49.59	54.00	-4.41	Peak
	17325.00	45.65	40.80	8.20	44.24	50.41	68.30	-17.89	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Antenna Polarity :Vertical

No.	Read Freq	Antenna level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
	MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
	11550.00	49.44	39.12	6.56	45.70	54.00	-4.58	Peak
	17325.00	45.94	40.80	8.20	44.24	68.30	-17.60	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



6.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

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

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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.

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and

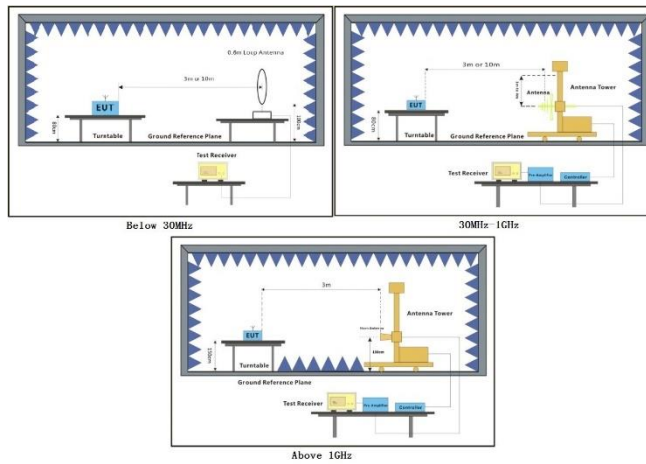


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		found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20,n40,ac20,ac40,ac80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20,n40,ac20,ac40,ac80, Only the data of worst case is recorded in the report.

6.2.3 Test Setup Diagram



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6.2.4 Measurement Procedure and Data

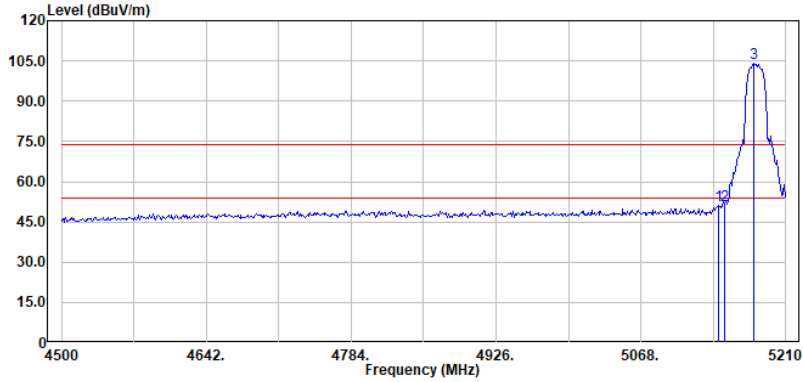
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 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

2: We have evaluated different adapters and battery modes. The battery mode is the worst, and only the battery mode is tested finally.



Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



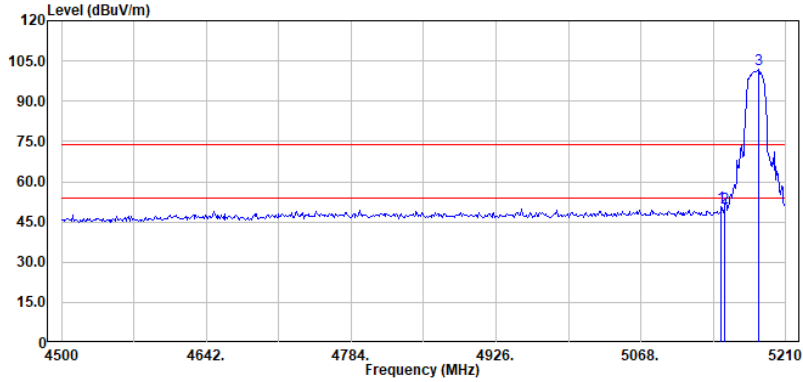
Antenna Polarity :Horizontal

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5144.15	63.07	31.82	4.30	47.86	51.33	74.00	-22.67	Peak
	5150.00	63.06	31.82	4.31	47.87	51.32	74.00	-22.68	Peak
	5179.13	115.98	31.83	4.32	47.84	104.29	74.00	30.29	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5147.23	62.27	31.82	4.31	47.87	50.53	74.00	-23.47	Peak
	5150.00	62.12	31.82	4.31	47.87	50.38	74.00	-23.62	Peak
	5183.25	113.42	31.84	4.33	47.83	101.76	74.00	27.76	Peak

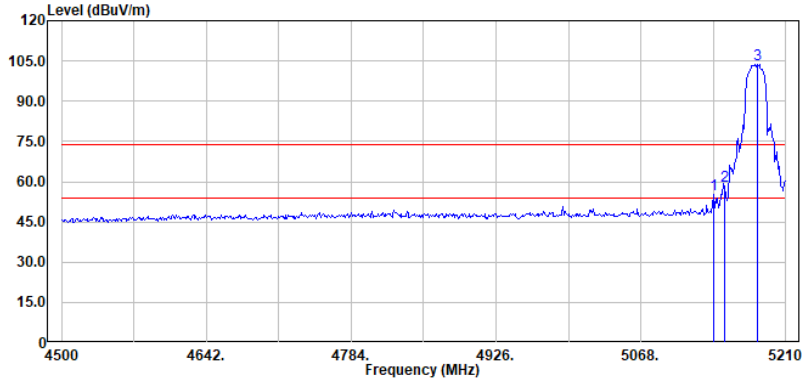
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5140.03	67.06	31.82	4.30	47.86	55.32	74.00	-18.68	Peak
	5150.00	70.34	31.82	4.31	47.87	58.60	74.00	-15.40	Peak
	5182.22	115.54	31.84	4.33	47.83	103.88	74.00	29.88	Peak

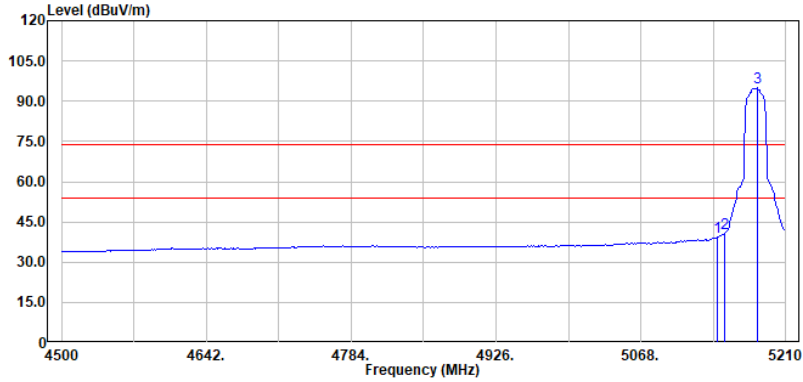
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5143.12	51.09	31.82	4.30	47.86	39.35	74.00	-34.65	Average
	5150.00	52.62	31.82	4.31	47.87	40.88	74.00	-33.12	Average
	5182.22	106.56	31.84	4.33	47.83	94.90	74.00	20.90	Average

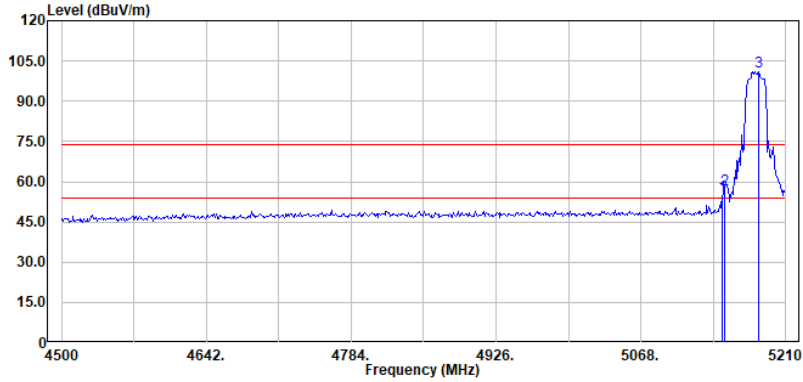
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5148.26	66.59	31.82	4.31	47.87	54.85	74.00	-19.15	Peak
	5150.00	68.94	31.82	4.31	47.87	57.20	74.00	-16.80	Peak
	5183.25	112.76	31.84	4.33	47.83	101.10	74.00	27.10	Peak

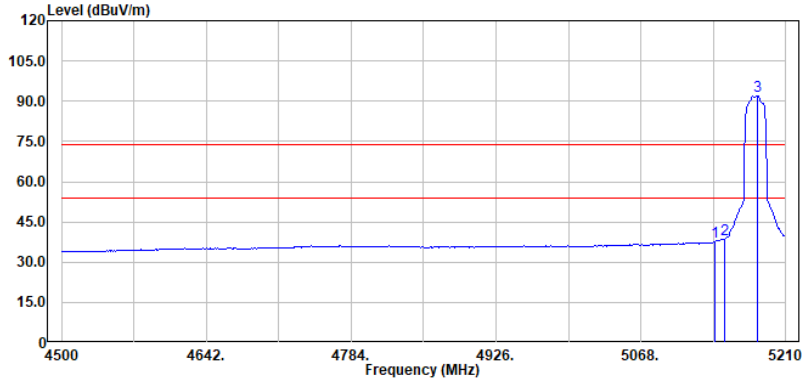
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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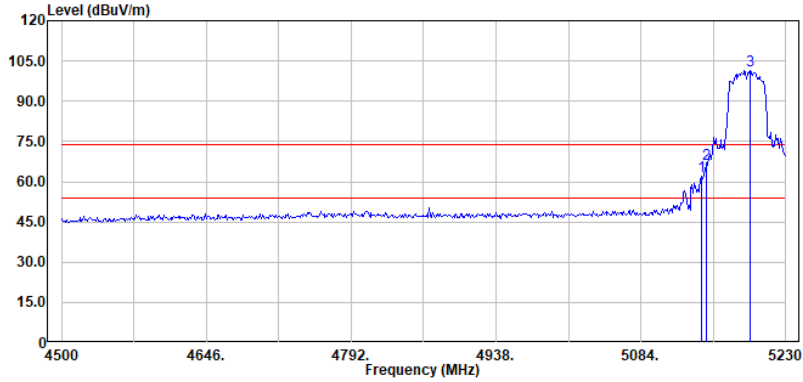
Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5141.06	49.51	31.82	4.30	47.86	37.77	74.00	-36.23	Average
	5150.00	50.41	31.82	4.31	47.87	38.67	74.00	-35.33	Average
	5182.22	103.77	31.84	4.33	47.83	92.11	74.00	18.11	Average

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5145.36	73.96	31.82	4.30	47.86	62.22	74.00	-11.78	Peak
	5150.00	78.22	31.82	4.31	47.87	66.48	74.00	-7.52	Peak
	5194.03	113.04	31.84	4.33	47.82	101.39	74.00	27.39	Peak

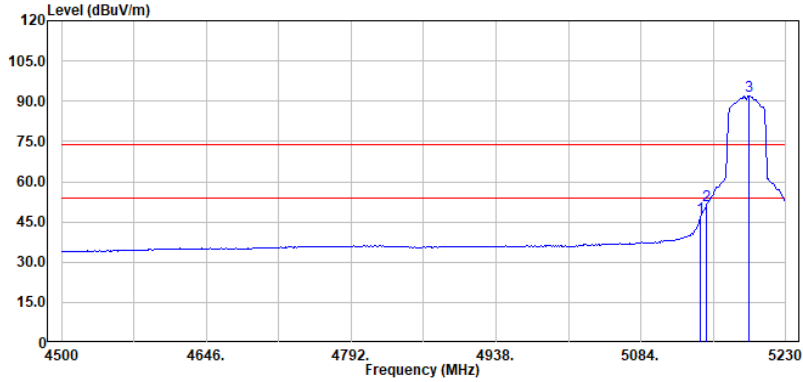
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5144.30	58.18	31.82	4.30	47.86	46.44	74.00	-27.56	Average
	5150.00	62.74	31.82	4.31	47.87	51.00	74.00	-23.00	Average
	5192.97	103.64	31.84	4.33	47.82	91.99	74.00	17.99	Average

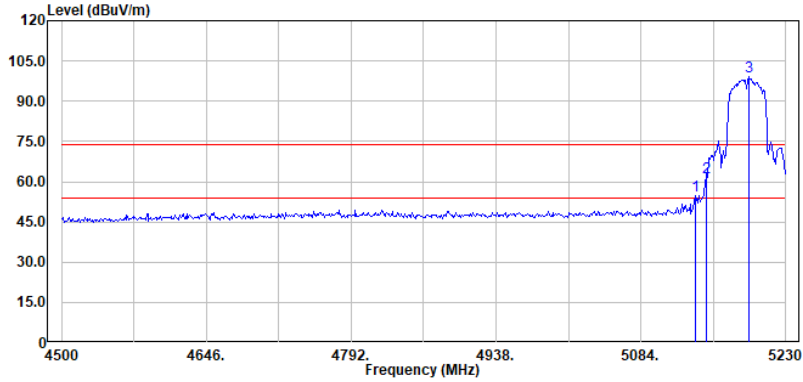
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5139.02	66.70	31.82	4.30	47.86	54.96	74.00	-19.04	Peak
	5150.00	73.10	31.82	4.31	47.87	61.36	74.00	-12.64	Peak
	5192.97	110.70	31.84	4.33	47.82	99.05	74.00	25.05	Peak

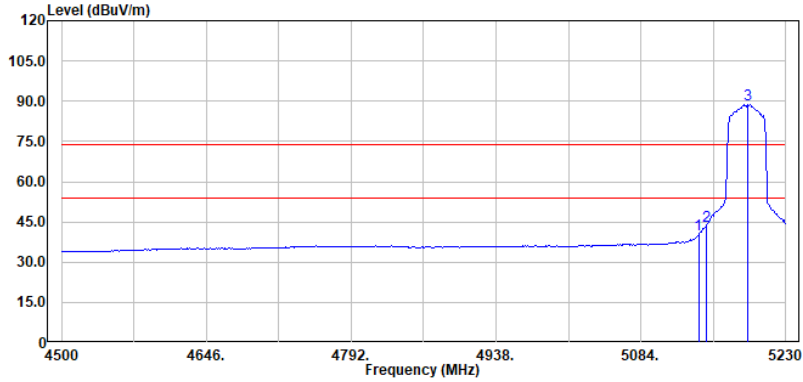
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5142.19	52.17	31.82	4.30	47.86	40.43	74.00	-33.57	Average
	5150.00	55.26	31.82	4.31	47.87	43.52	74.00	-30.48	Average
	5191.91	100.46	31.84	4.33	47.82	88.81	74.00	14.81	Average

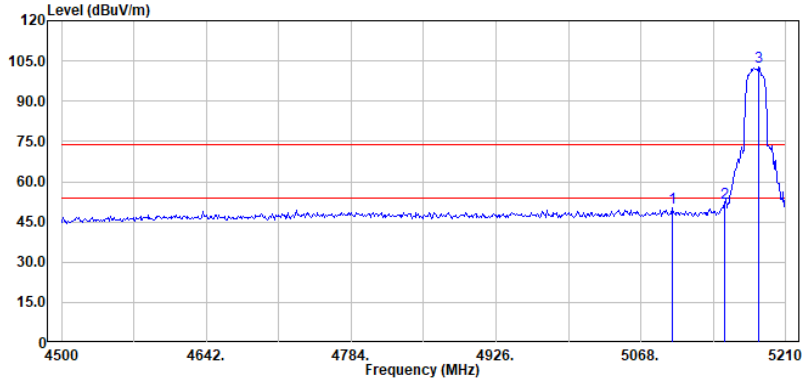
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



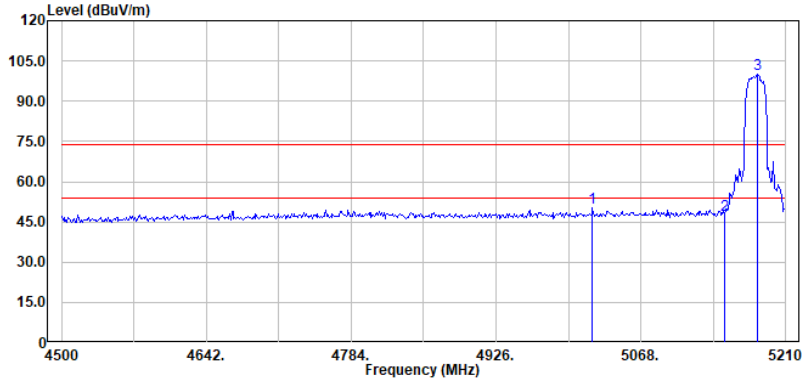
Antenna Polarity :Horizontal

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5098.87	61.95	31.80	4.28	47.81	50.22	74.00	-23.78	Peak
	5150.00	63.72	31.82	4.31	47.87	51.98	74.00	-22.02	Peak
	5183.25	114.31	31.84	4.33	47.83	102.65	74.00	28.65	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5020.67	61.91	31.71	4.23	47.72	50.13	74.00	-23.87	Peak
	5150.00	59.23	31.82	4.31	47.87	47.49	74.00	-26.51	Peak
	5182.22	111.63	31.84	4.33	47.83	99.97	74.00	25.97	Peak

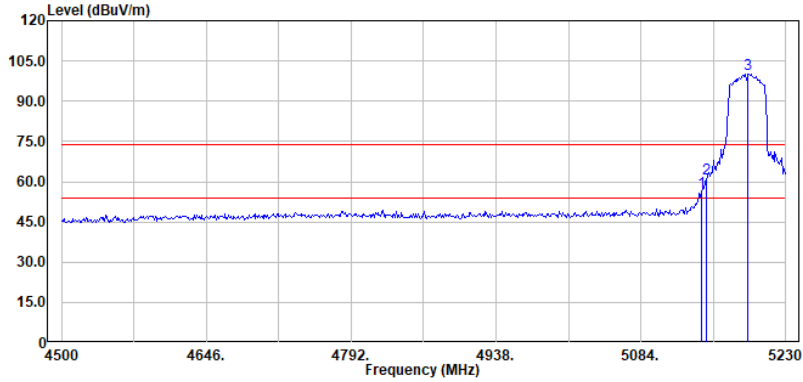
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



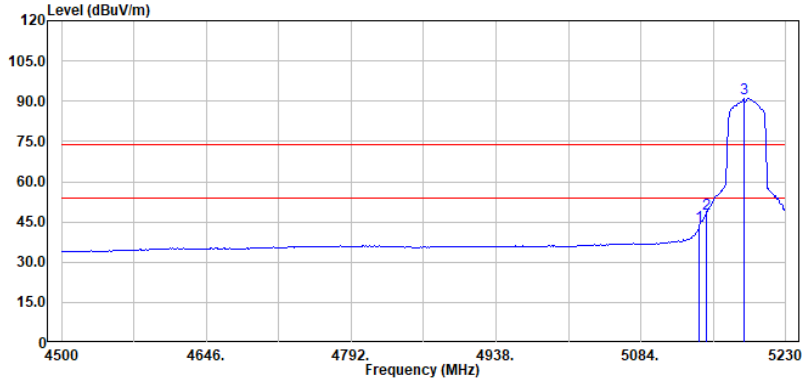
Antenna Polarity :Horizontal

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5145.36	67.97	31.82	4.30	47.86	56.23	74.00	-17.77	Peak
	5150.00	72.82	31.82	4.31	47.87	61.08	74.00	-12.92	Peak
	5191.91	111.83	31.84	4.33	47.82	100.18	74.00	26.18	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5143.25	55.00	31.82	4.30	47.86	43.26	74.00	-30.74	Average
	5150.00	59.96	31.82	4.31	47.87	48.22	74.00	-25.78	Average
	5187.68	102.84	31.84	4.33	47.83	91.18	74.00	17.18	Average

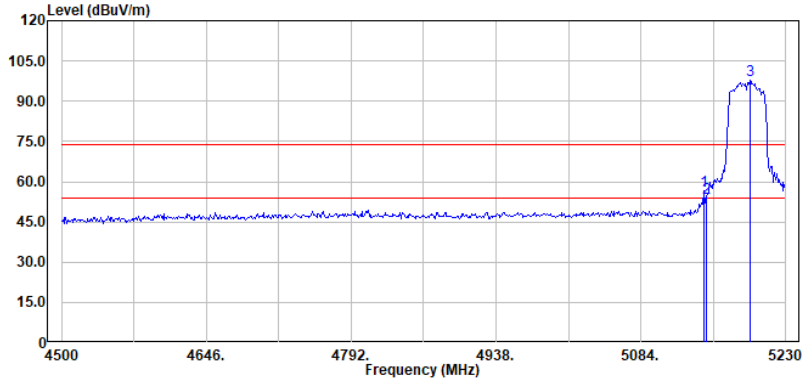
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5147.48	68.42	31.82	4.31	47.87	56.68	74.00	-17.32	Peak
	5150.00	65.48	31.82	4.31	47.87	53.74	74.00	-20.26	Peak
	5194.03	109.25	31.84	4.33	47.82	97.60	74.00	23.60	Peak

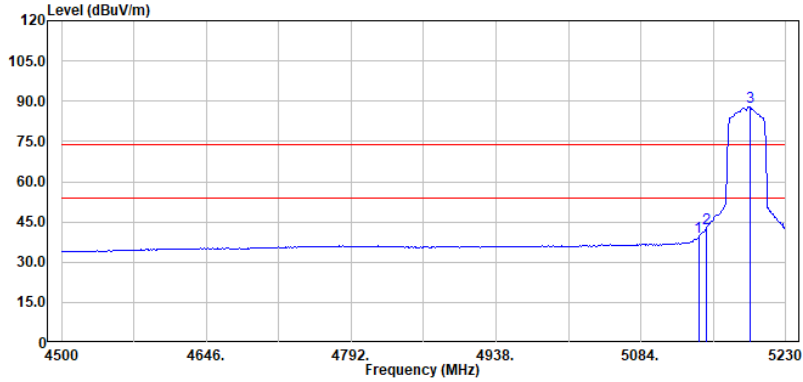
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5142.19	51.10	31.82	4.30	47.86	39.36	74.00	-34.64	Average
	5150.00	54.15	31.82	4.31	47.87	42.41	74.00	-31.59	Average
	5194.03	99.39	31.84	4.33	47.82	87.74	74.00	13.74	Average

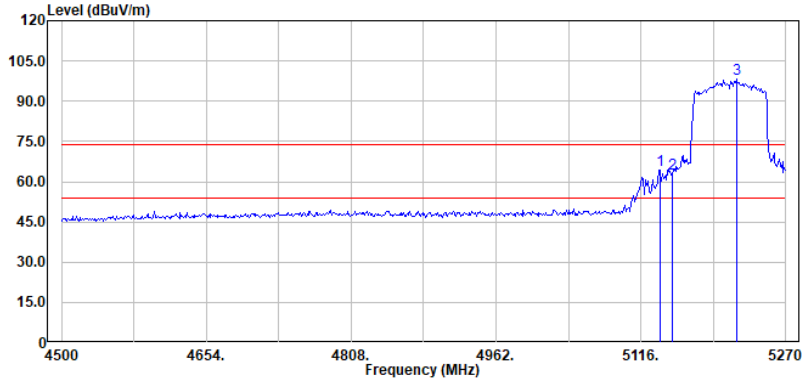
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



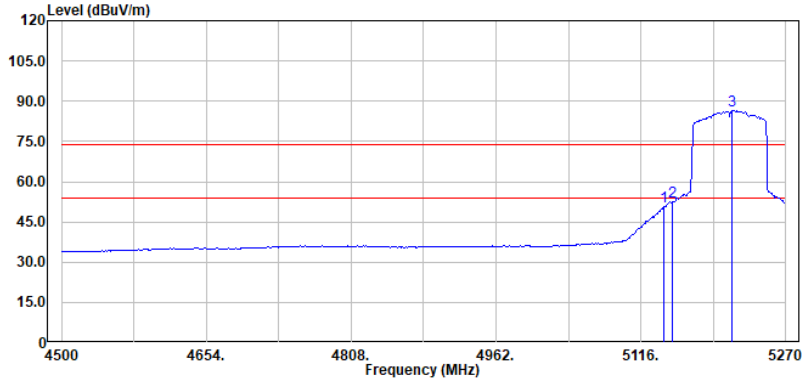
Antenna Polarity :Horizontal

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5136.09	76.01	31.82	4.30	47.85	64.28	74.00	-9.72	Peak
	5150.00	74.65	31.82	4.31	47.87	62.91	74.00	-11.09	Peak
	5217.55	109.69	31.85	4.35	47.80	98.09	74.00	24.09	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5140.55	62.28	31.82	4.30	47.86	50.54	74.00	-23.46	Average
	5150.00	64.41	31.82	4.31	47.87	52.67	74.00	-21.33	Average
	5213.09	98.11	31.85	4.34	47.80	86.50	74.00	12.50	Average

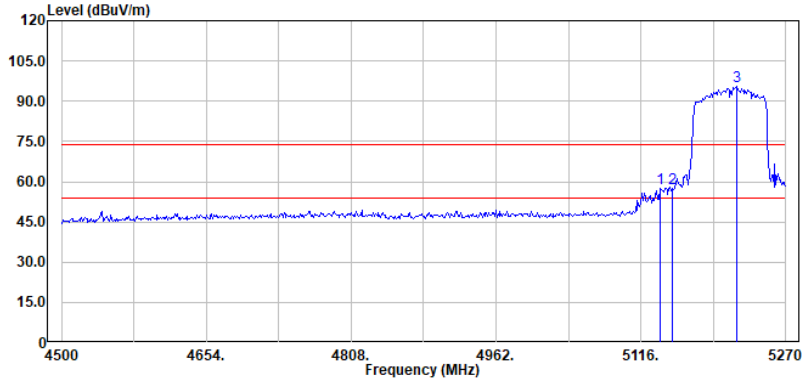
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



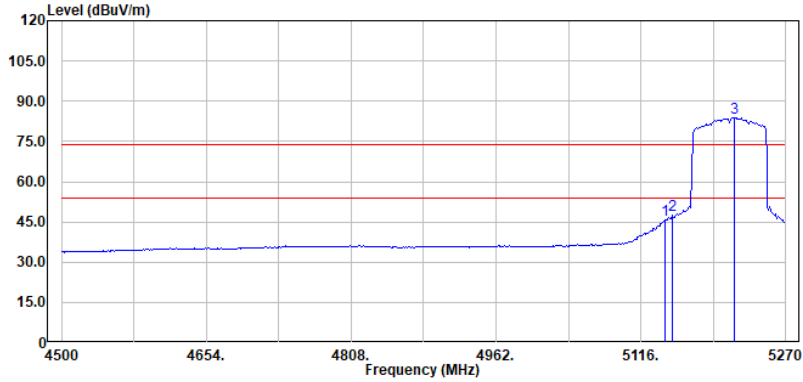
Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5136.09	69.42	31.82	4.30	47.85	57.69	74.00	-16.31	Peak
	5150.00	69.34	31.82	4.31	47.87	57.60	74.00	-16.40	Peak
	5217.55	107.19	31.85	4.35	47.80	95.59	74.00	21.59	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5141.67	57.59	31.82	4.30	47.86	45.85	74.00	-28.15	Average
	5150.00	59.07	31.82	4.31	47.87	47.33	74.00	-26.67	Average
	5215.32	95.52	31.85	4.35	47.80	83.92	74.00	9.92	Average

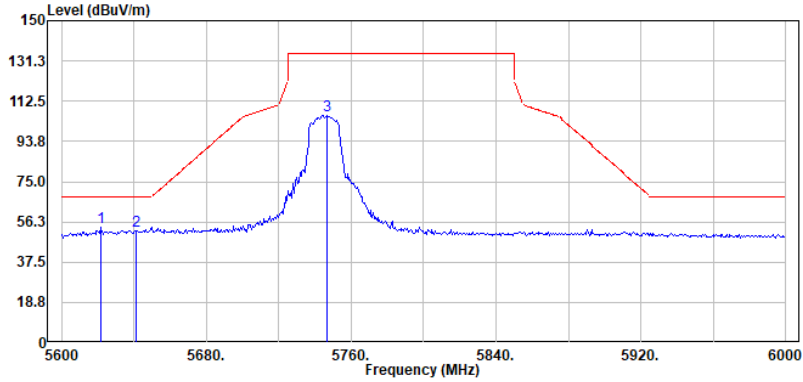
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	5621.45	64.52	32.08	4.55	47.39	53.76	68.20	-14.44	Peak
	5641.16	62.96	32.11	4.55	47.38	52.24	68.20	-15.96	Peak
	5746.67	116.59	32.26	4.55	47.29	106.11	135.00	-28.89	Peak

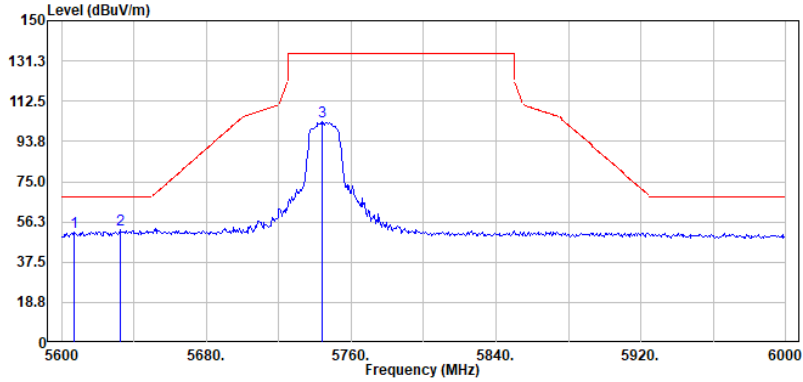
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



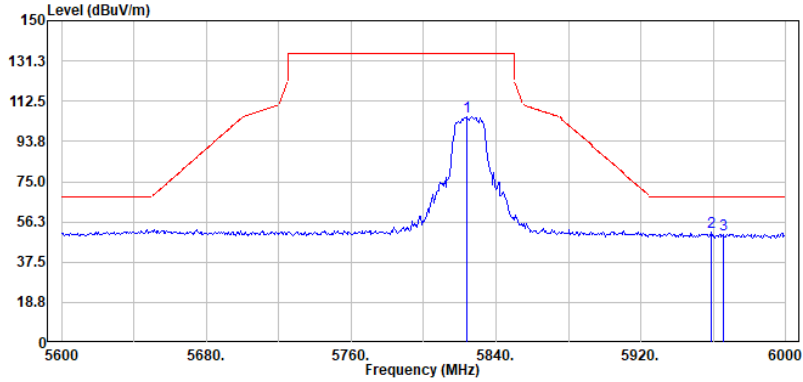
Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5606.96	62.42	32.06	4.55	47.39	51.64	68.20	-16.56	Peak
	5632.46	63.21	32.10	4.55	47.38	52.48	68.20	-15.72	Peak
	5743.77	113.79	32.25	4.55	47.29	103.30	135.00	-31.70	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Antenna Polarity :Horizontal

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5823.77	115.52	32.36	4.55	47.14	105.29	135.00	-29.71	Peak
	5958.84	61.87	32.55	4.54	47.66	51.30	68.20	-16.90	Peak
	5965.80	61.09	32.55	4.54	47.69	50.49	68.20	-17.71	Peak

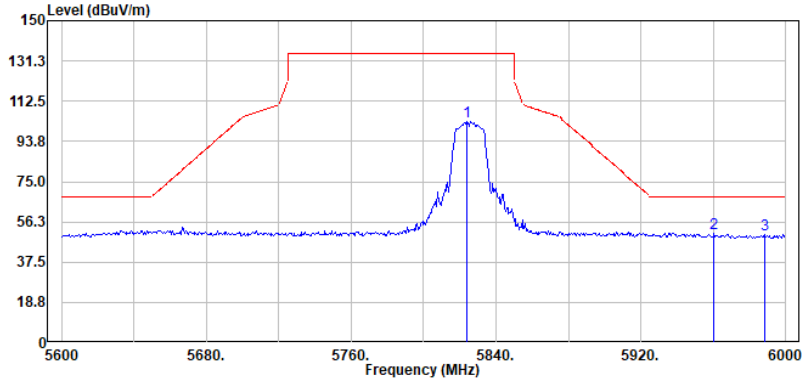
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



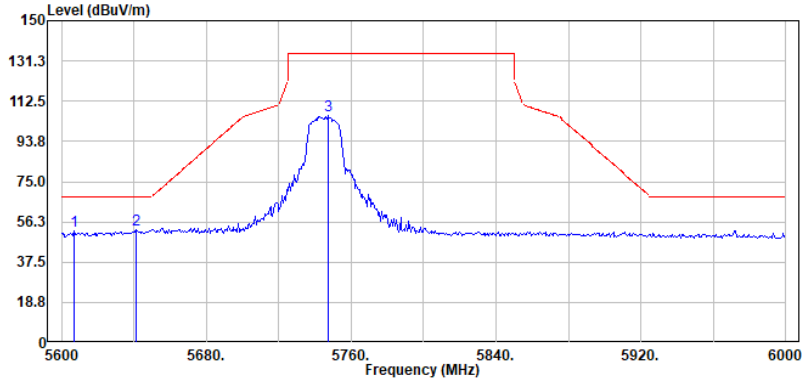
Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5823.77	113.18	32.36	4.55	47.14	102.95	135.00	-32.05	Peak
	5960.58	61.80	32.55	4.54	47.67	51.22	68.20	-16.98	Peak
	5988.41	61.07	32.59	4.54	47.81	50.39	68.20	-17.81	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	5606.96	63.08	32.06	4.55	47.39	52.30	68.20	-15.90	Peak
	5641.16	63.38	32.11	4.55	47.38	52.66	68.20	-15.54	Peak
	5747.25	116.13	32.26	4.55	47.29	105.65	135.00	-29.35	Peak

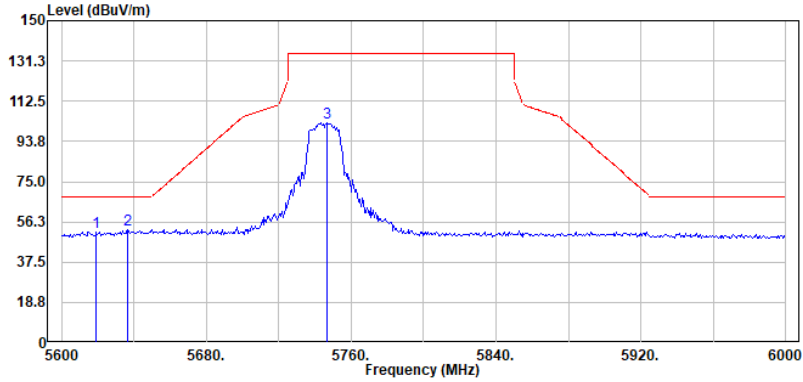
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



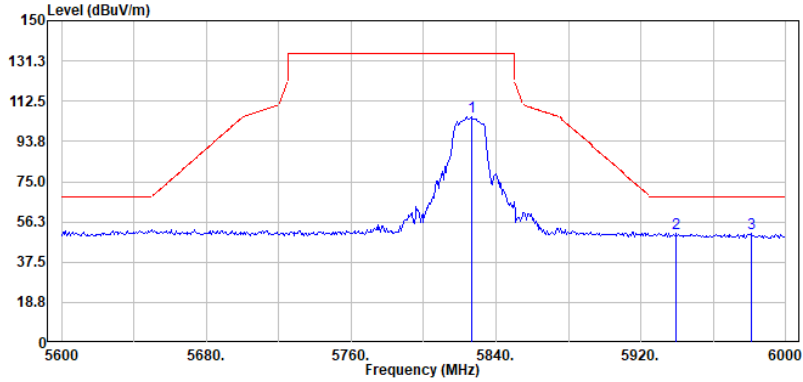
Antenna Polarity :Vertical

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	5619.13	62.47	32.08	4.55	47.39	51.71	68.20	-16.49	Peak
	5636.52	63.43	32.10	4.55	47.38	52.70	68.20	-15.50	Peak
	5746.67	113.10	32.26	4.55	47.29	102.62	135.00	-32.38	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :Horizontal

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5826.67	115.47	32.36	4.55	47.13	105.25	135.00	-29.75	Peak
	5939.71	61.22	32.52	4.54	47.56	50.72	68.20	-17.48	Peak
	5980.87	61.60	32.58	4.54	47.77	50.95	68.20	-17.25	Peak

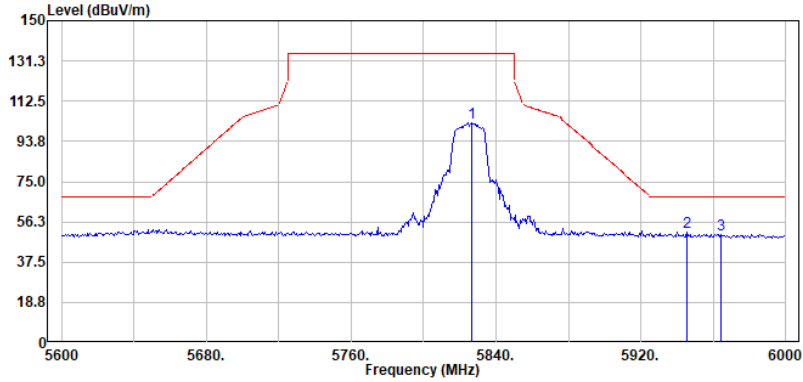
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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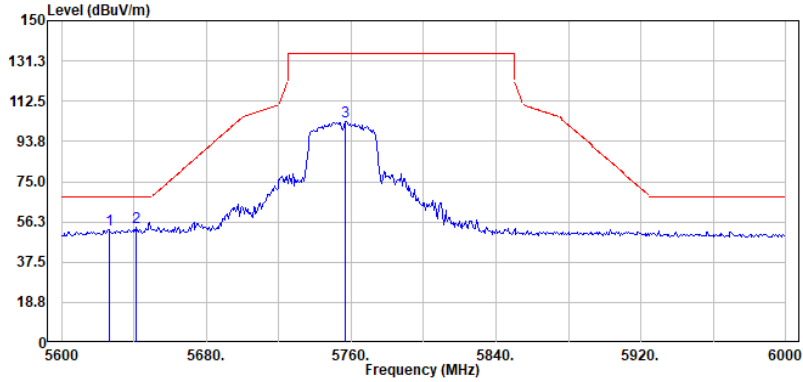
Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5826.67	112.83	32.36	4.55	47.13	102.61	135.00	-32.39	Peak
	5945.51	62.18	32.53	4.54	47.59	51.66	68.20	-16.54	Peak
	5964.06	61.14	32.55	4.54	47.68	50.55	68.20	-17.65	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	5626.09	63.26	32.09	4.55	47.38	52.52	68.20	-15.68	Peak
	5641.16	64.25	32.11	4.55	47.38	53.53	68.20	-14.67	Peak
	5756.52	113.35	32.27	4.55	47.27	102.90	135.00	-32.10	Peak

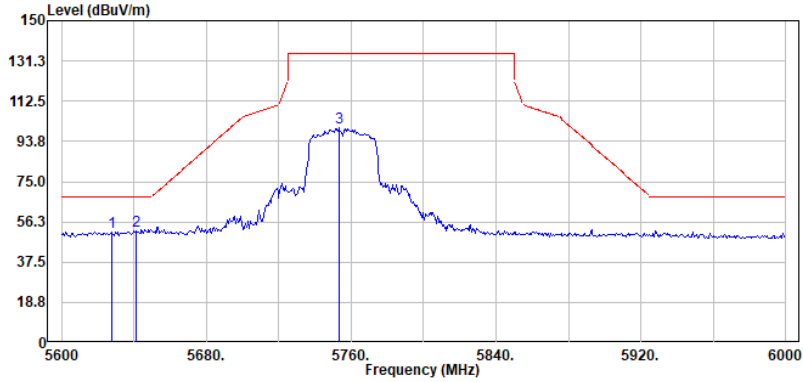
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



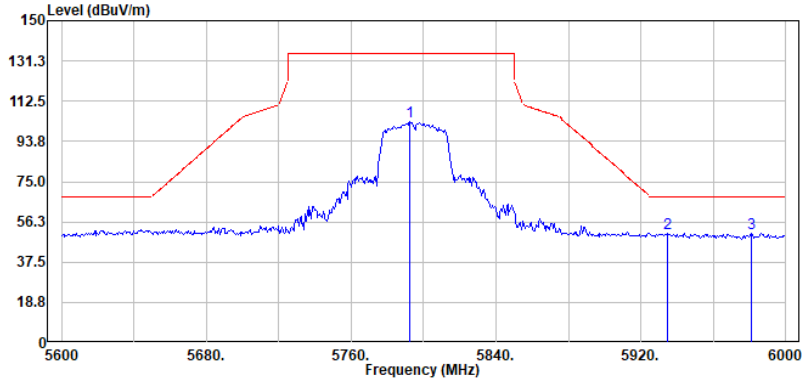
Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5627.83	62.40	32.09	4.55	47.38	51.66	68.20	-16.54	Peak
	5641.16	62.95	32.11	4.55	47.38	52.23	68.20	-15.97	Peak
	5753.04	110.40	32.26	4.55	47.28	99.93	135.00	-35.07	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	5792.46	113.26	32.32	4.55	47.20	102.93	135.00	-32.07	Peak
	5934.49	61.53	32.51	4.54	47.53	51.05	68.20	-17.15	Peak
	5981.45	61.82	32.58	4.54	47.77	51.17	68.20	-17.03	Peak

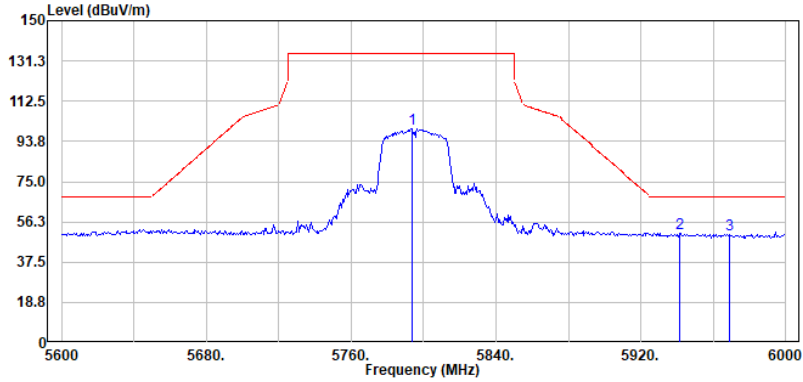
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



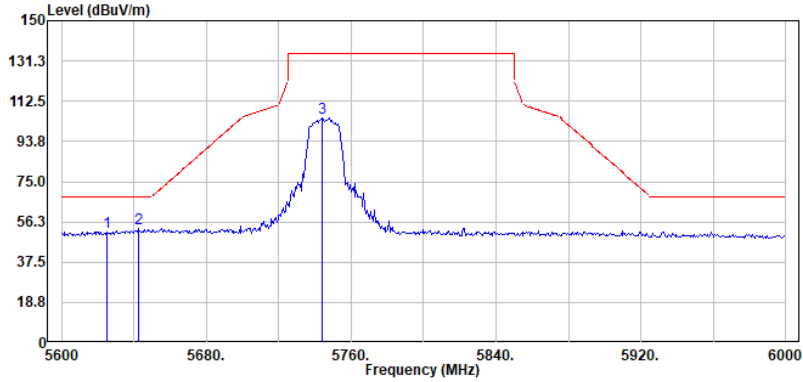
Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5793.62	110.08	32.32	4.55	47.20	99.75	135.00	-35.25	Peak
	5941.45	61.64	32.52	4.54	47.57	51.13	68.20	-17.07	Peak
	5969.28	61.14	32.56	4.54	47.71	50.53	68.20	-17.67	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



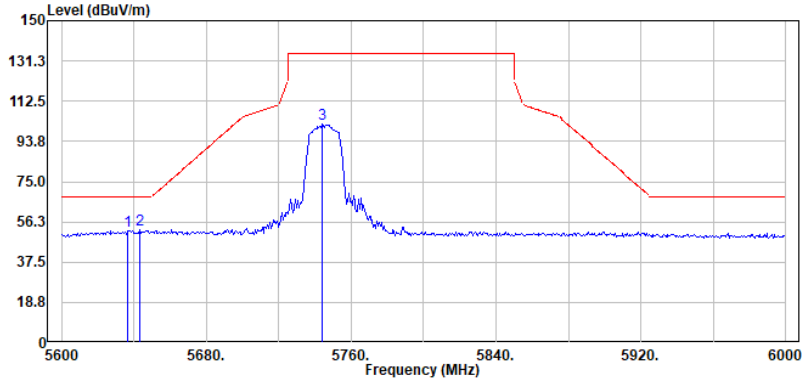
Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	5624.93	62.38	32.09	4.55	47.38	51.64	68.20	-16.56	Peak
	5642.32	64.00	32.11	4.55	47.38	53.28	68.20	-14.92	Peak
	5743.77	115.49	32.25	4.55	47.29	105.00	135.00	-30.00	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Vertical

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	5636.52	63.00	32.10	4.55	47.38	52.27	68.20	-15.93	Peak
	5642.90	63.64	32.11	4.55	47.38	52.92	68.20	-15.28	Peak
	5743.77	112.13	32.25	4.55	47.29	101.64	135.00	-33.36	Peak

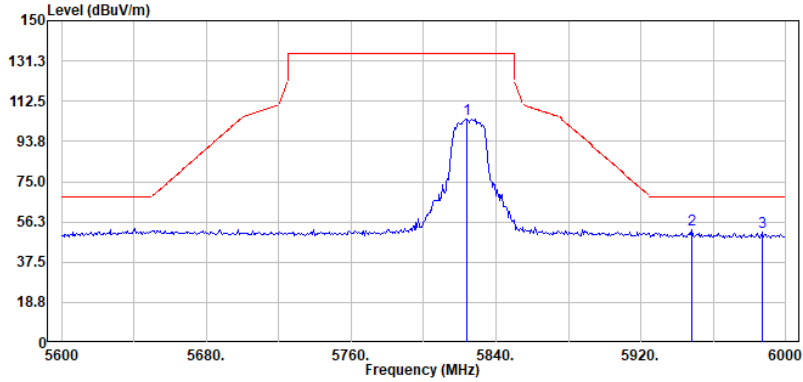
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



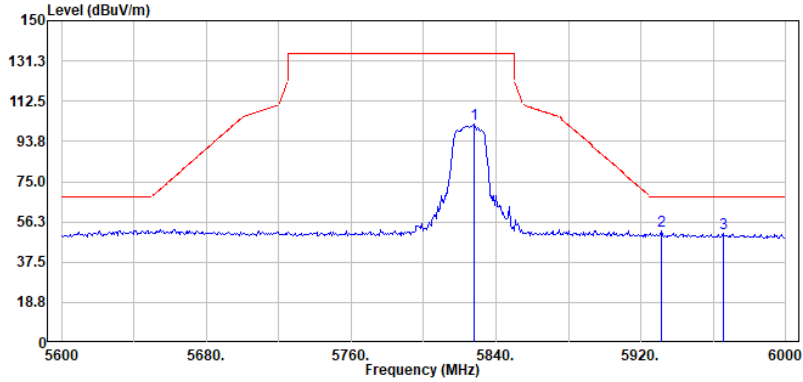
Antenna Polarity :Horizontal

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5823.77	114.48	32.36	4.55	47.14	104.25	135.00	-30.75	Peak
	5948.41	63.02	32.53	4.54	47.60	52.49	68.20	-15.71	Peak
	5987.25	61.99	32.58	4.54	47.80	51.31	68.20	-16.89	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



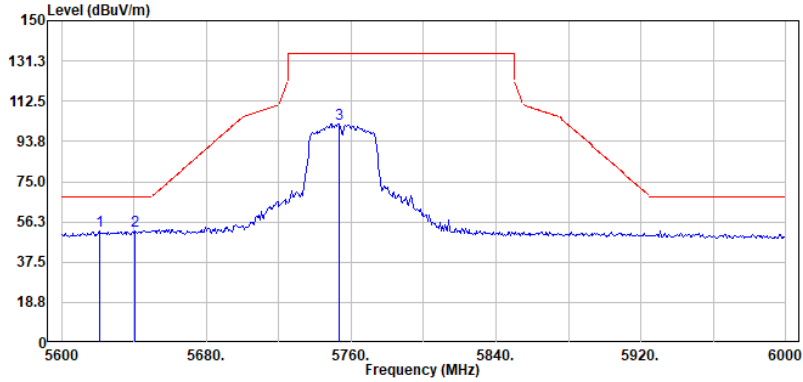
Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5827.83	111.99	32.37	4.55	47.13	101.78	135.00	-33.22	Peak
	5931.59	62.33	32.51	4.54	47.51	51.87	68.20	-16.33	Peak
	5965.80	61.33	32.55	4.54	47.69	50.73	68.20	-17.47	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



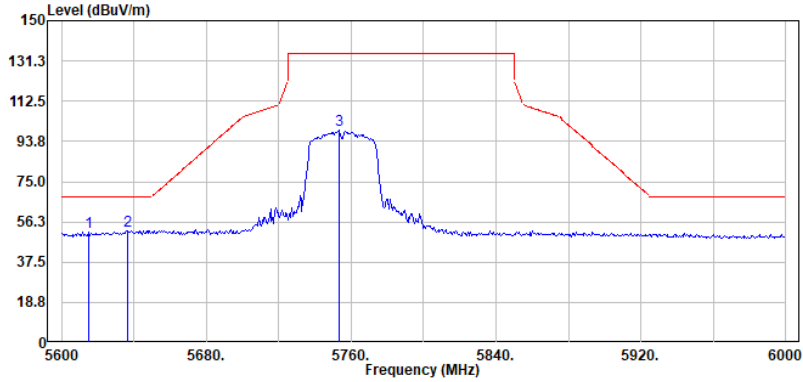
Antenna Polarity :Horizontal

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5620.87	62.97	32.08	4.55	47.39	52.21	68.20	-15.99	Peak
	5640.58	62.96	32.11	4.55	47.38	52.24	68.20	-15.96	Peak
	5753.04	112.36	32.26	4.55	47.28	101.89	135.00	-33.11	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



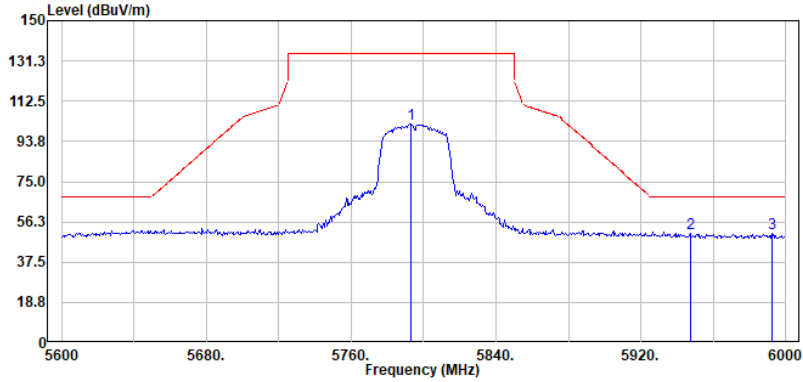
Antenna Polarity :Vertical

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
	5615.07	62.33	32.08	4.55	47.39	51.57	68.20	-16.63	Peak
	5636.52	63.06	32.10	4.55	47.38	52.33	68.20	-15.87	Peak
	5753.04	109.39	32.26	4.55	47.28	98.92	135.00	-36.08	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



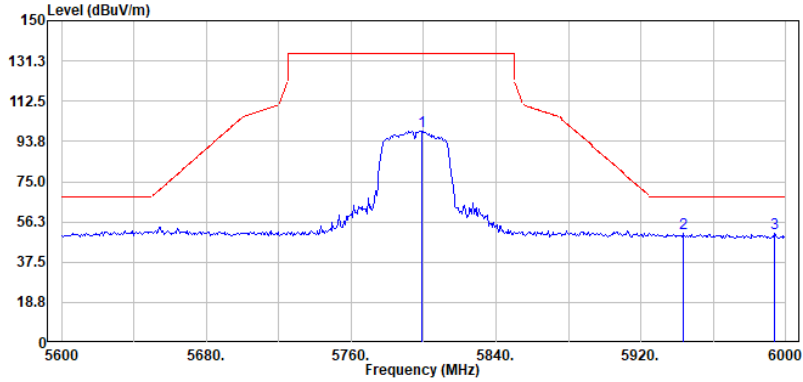
Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	5793.04	112.23	32.32	4.55	47.20	101.90	135.00	-33.10	Peak
	5947.25	61.37	32.53	4.54	47.60	50.84	68.20	-17.36	Peak
	5992.46	61.66	32.59	4.54	47.83	50.96	68.20	-17.24	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



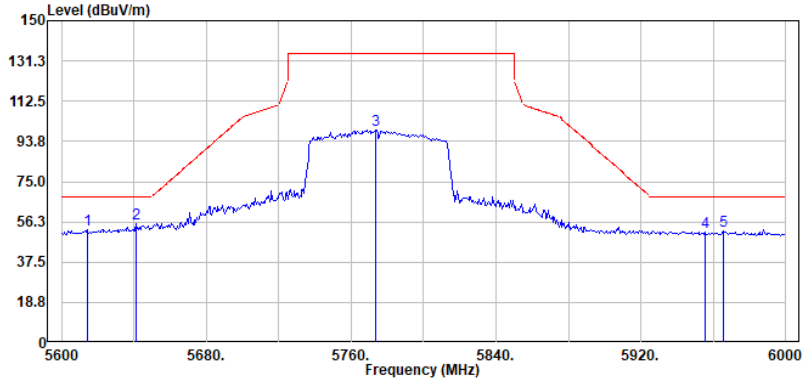
Antenna Polarity :Vertical

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	5798.84	109.01	32.33	4.55	47.19	98.70	135.00	-36.30	Peak
	5943.19	61.55	32.52	4.54	47.57	51.04	68.20	-17.16	Peak
	5993.62	61.90	32.59	4.54	47.84	51.19	68.20	-17.01	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



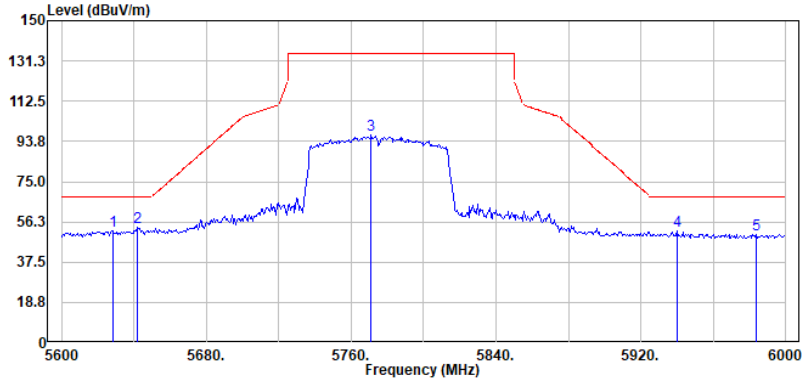
Antenna Polarity :Horizontal

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	5613.91	63.65	32.07	4.55	47.39	52.88	68.20	-15.32	Peak
	5641.16	66.42	32.11	4.55	47.38	55.70	68.20	-12.50	Peak
	5773.33	109.58	32.29	4.55	47.24	99.18	135.00	-35.82	Peak
	5955.36	61.99	32.54	4.54	47.64	51.43	68.20	-16.77	Peak
	5965.80	62.66	32.55	4.54	47.69	52.06	68.20	-16.14	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Antenna Polarity :Vertical

No.	Read Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
	5628.41	62.60	32.09	4.55	47.38	51.86	68.20	-16.34	Peak
	5641.74	64.33	32.11	4.55	47.38	53.61	68.20	-14.59	Peak
	5771.02	107.02	32.29	4.55	47.24	96.62	135.00	-38.38	Peak
	5940.29	62.31	32.52	4.54	47.56	51.81	68.20	-16.39	Peak
	5983.77	61.30	32.58	4.54	47.79	50.63	68.20	-17.57	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



6.3 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

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

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 50.6 % RH Atmospheric Pressure: 1010 mbar

6.3.2 Test Mode Description

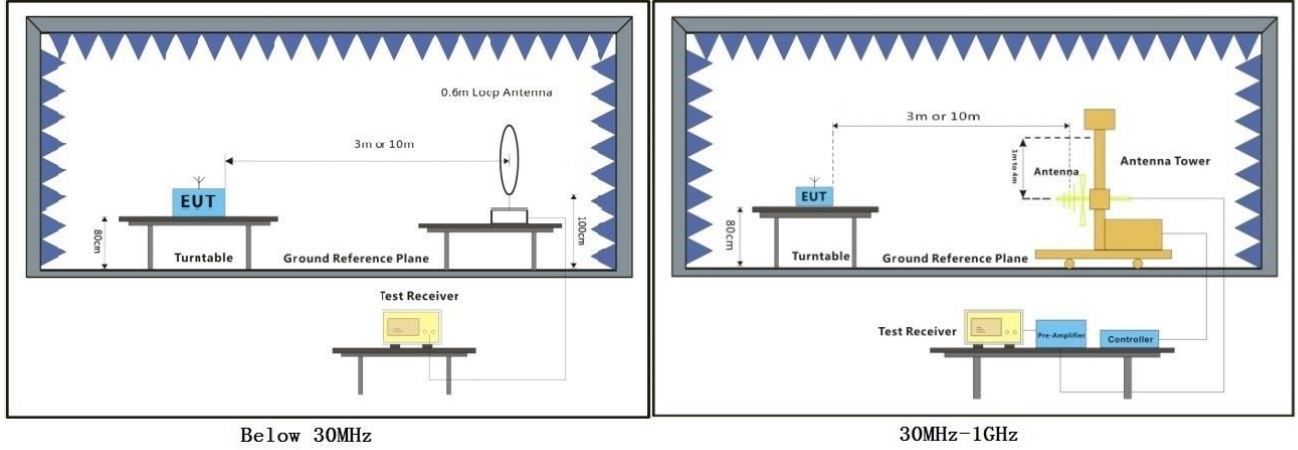
Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20,n40,ac20,ac40,ac80, Only the data of worst case is recorded in the report.



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6.3.3 Test Setup Diagram



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

Remark:

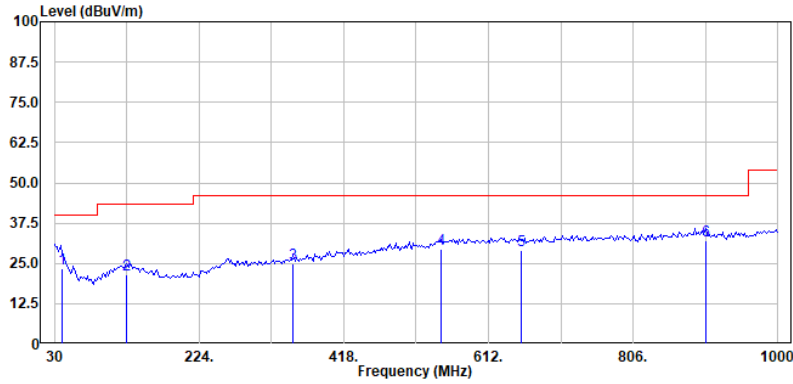
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
- 3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points 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.
- 4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 5: We have evaluated different adapters and battery modes. The battery mode is the worst, and only the battery mode is tested finally.



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Test Mode: 05; Polarity: Horizontal



Antenna Polarity :Horizontal

No.	Read Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	39.70	1.04	22.02	0.38	0.00	23.44	40.00	-16.56	QP
	2127.00	2.17	18.50	1.00	0.00	21.67	43.50	-21.83	QP
	3350.10	3.01	20.47	1.30	0.00	24.78	46.00	-21.22	QP
	4547.98	2.21	25.01	2.24	0.00	29.46	46.00	-16.54	QP
	5656.62	1.67	25.03	2.41	0.00	29.11	46.00	-16.89	QP
	6903.00	2.57	27.02	2.50	0.00	32.09	46.00	-13.91	QP

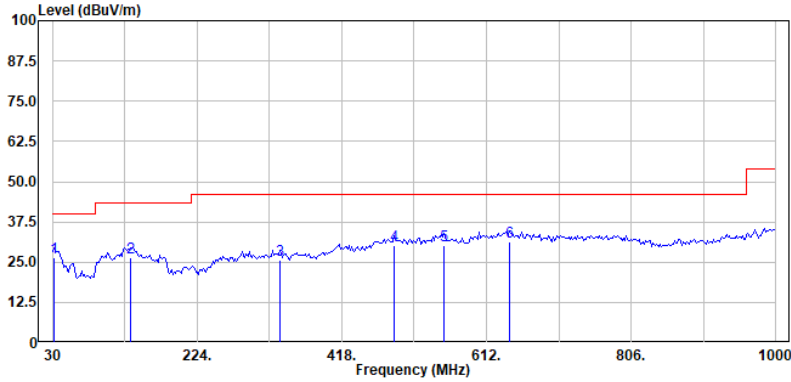
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 05; Polarity: Vertical



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	31.94	1.11	24.91	0.31	0.00	26.33	40.00	-13.67	QP
	2134.76	7.27	18.10	1.05	0.00	26.42	43.50	-17.08	QP
	3334.58	4.42	19.97	1.29	0.00	25.68	46.00	-20.32	QP
	4487.84	4.54	23.37	2.14	0.00	30.05	46.00	-15.95	QP
	5555.74	2.81	25.02	2.26	0.00	30.09	46.00	-15.91	QP
	6643.04	3.38	25.44	2.40	0.00	31.22	46.00	-14.78	QP

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2307001454AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2307001454AT

- End of the Report -

