TEST REPORT

Application No.:	SZCR2404001307WM
Applicant:	vivo Mobile Communication Co., Ltd.
Address of Applicant:	No.1, vivo Road, Chang'an, Dongguan,Guangdong,China
Manufacturer:	vivo Mobile Communication Co., Ltd.
Address of Manufacturer:	No.1, vivo Road, Chang'an, Dongguan,Guangdong,China
Equipment Under Test (EUT):	
EUT Name:	Mobile phone
Model No.:	V2348
Trade Mark:	vivo
FCC ID:	2AUCY-V2348
Standard(s) :	47 CFR Part 15, Subpart E 15.407
Date of Receipt:	2024-04-15
Date of Test:	2024-05-18 to 2024-05-29
Date of Issue:	2024-05-30
Test Result:	**Pass***

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

Keny Xu
EMC Laboratory Manager

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Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2024-05-30		Original

Authorized for issue by:				
		Sherlock Fang **Sherlock Fang/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 E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass

Radio Spectrum Matter Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Duty Cycle		KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	N/A
Non-occupancy period		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass

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3 Contents

Page

1 Cover Page 1

2 Test Summary 3

3 Contents 4

4 General Information 7

4.1 Details of E.U.T. 7
4.2 Description of Support Units 8
4.3 Measurement Uncertainty 8
4.4 Test Location 9
4.5 Test Facility 9
4.6 Deviation from Standards 9
4.7 Abnormalities from Standard Conditions 9

5 Equipment List 10

6 Radio Spectrum Technical Requirement 13

6.1 Antenna Requirement 13
6.1.1 Test Requirement: 13
6.1.2 Conclusion 13
6.2 Transmission in the Absence of Data 14
6.2.1 Test Requirement: 14
6.2.2 Conclusion 14

7 Radio Spectrum Matter Test Results 15

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz) 15
7.1.1 E.U.T. Operation 15
7.1.2 Test Mode Description 15
7.1.3 Test Setup Diagram 16
7.1.4 Measurement Procedure and Data 16
7.2 Maximum Conducted output power 19
7.2.1 E.U.T. Operation 19
7.2.2 Test Mode Description 19
7.2.3 Test Setup Diagram 20
7.2.4 Measurement Procedure and Data 20
7.3 Radiated Emissions (Below 1GHz) 21
7.3.1 E.U.T. Operation 21
7.3.2 Test Mode Description 21
7.3.3 Test Setup Diagram 22
7.3.4 Measurement Procedure and Data 23
7.4 Radiated Emissions (Above 1GHz) 26
7.4.1 E.U.T. Operation 26
7.4.2 Test Mode Description 26
7.4.3 Test Setup Diagram 27

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7.4.4 Measurement Procedure and Data 28
7.5 Radiated Emissions which fall in the restricted bands 133
7.5.1 E.U.T. Operation 133
7.5.2 Test Mode Description 134
7.5.3 Test Setup Diagram 134
7.5.4 Measurement Procedure and Data 135
7.6 Channel Move Time 250
7.6.1 E.U.T. Operation 250
7.6.2 Test Setup Diagram 251
7.6.3 Measurement Procedure and Data 252
7.7 Duty Cycle 253
7.7.1 E.U.T. Operation 253
7.7.2 Test Mode Description 253
7.7.3 Test Setup Diagram 254
7.7.4 Measurement Procedure and Data 254
7.8 99% Bandwidth 255
7.8.1 E.U.T. Operation 255
7.8.2 Test Mode Description 255
7.8.3 Test Setup Diagram 256
7.8.4 Measurement Procedure and Data 256
7.9 26dB Emission bandwidth 257
7.9.1 E.U.T. Operation 257
7.9.2 Test Mode Description 257
7.9.3 Test Setup Diagram 258
7.9.4 Measurement Procedure and Data 258
7.10 Minimum 6 dB bandwidth (5.725-5.85 GHz band) 259
7.10.1 E.U.T. Operation 259
7.10.2 Test Mode Description 259
7.10.3 Test Setup Diagram 259
7.10.4 Measurement Procedure and Data 259
7.11 Peak Power spectrum density 260
7.11.1 E.U.T. Operation 260
7.11.2 Test Mode Description 260
7.11.3 Test Setup Diagram 261
7.11.4 Measurement Procedure and Data 261
7.12 Frequency Stability 262
7.12.1 Measurement Procedure and Data 262
7.13 Non-occupancy period 263
7.13.1 E.U.T. Operation 263
7.13.2 Test Mode Description 264
7.13.3 Test Setup Diagram 264
7.13.4 Measurement Procedure and Data 265
7.14 Channel Closing Transmission Time 266
7.14.1 E.U.T. Operation 266
7.14.2 Test Mode Description 266
7.14.3 Test Setup Diagram 267
7.14.4 Measurement Procedure and Data 268

8 Test Setup Photo 269

9 EUT Constructional Details (EUT Photos) 269

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10 Appendix.....270

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4 General Information

4.1 Details of E.U.T.

EUT Description:	Mobile phone	
Model No.:	V2348	
Trade Mark:	vivo	
Hardware Version:	MP_0.1	
Software Version:	PD2363JF_EX_A_14.0.5.5.W30	
Power supply:	DC 3.86V from internal rechargeable battery which can be charged by AC/DC adapter	
WLAN Mode Supported:	802.11a:	20 MHz channel bandwidth
	802.11n:	20 MHz / 40 MHz channel bandwidth
	802.11ac:	20 MHz / 40 MHz / 80 MHz / 160 MHz channel bandwidth
	802.11ax:	20 MHz / 40 MHz / 80 MHz / 160 MHz channel bandwidth
Operation Frequency:	5150MHz to 5250MHz 5250MHz to 5350MHz 5470MHz to 5725MHz 5725MHz to 5850MHz	
Modulation Type:	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
	802.11ax:	OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Channel Spacing:	20MHz:	802.11a/n(HT20)/ac(VHT20)/ax(HE20)
	40MHz:	802.11n(HT40)/ac(VHT40)/ax(HE40)
	80MHz:	802.11ac(VHT80)/ax(HE80)
	160MHz:	802.11ac(VHT160)/ax(HE160)
Antenna Type:	IFA Antenna	
Antenna Gain:	5150MHz to 5250MHz: -0.23dBi(Ant21A); 1.51dBi(Ant23); 5250MHz to 5350MHz: 0.04dBi(Ant21A); 1.01dBi(Ant23); 5470MHz to 5725MHz: 1.79dBi(Ant21A); 0.6dBi(Ant23); 5725MHz to 5850MHz: 1.16dBi(Ant21A); -0.03dBi(Ant23);	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
Smart System:	☒ SISO	802.11a/n/ac/ax
	☒ MIMO	802.11n/ac/ax: 2Tx & 2Rx

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	☒ Diversity	CDD: 802.11a: 2Tx & 2Rx
TPC Function:	☒Support, ☐Not Support	
DFS Function:	☐Master	
	☐Slave with radar detection	☒Slave without radar detection
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4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Router	NETGEAR	R7800	--

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Maximum Conducted output power	± 0.75dB
Radiated Emissions (Below 1GHz)	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions (Above 1GHz)	± 4.6dB (1-18GHz);± 4.8dB (18-40GHz)
Radiated Emissions which fall in the restricted bands	± 6.0dB (below 1GHz); ± 4.6dB (above 1GHz);
Duty Cycle	± 0.37%
99% Bandwidth	± 3%
26dB Emission bandwidth	± 3%
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	± 3%
Peak Power spectrum density	± 2.84dB
Frequency Stability	± 7.25 x 10-8

Remark:
The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (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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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

• VCCI (Member No. 1937)

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

• FCC –Designation Number: CN1336

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2024-03-14	2025-03-13
Matching Pad	N/A	N/A	SEM021-23	2024-03-20	2025-03-19
Matching Pad	N/A	N/A	SEM021-24	2024-03-20	2025-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2023-07-07	2024-07-06
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-09-19	2024-09-18
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13

RF Conducted Test					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-012	2024/01/30	2025/01/29
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

Radiated 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	2023-10-19	2024-10-18
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

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Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06

Radiated Emissions (Above 1GHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2024-01-30	2025-01-29
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2024-01-30	2025-01-29
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2024-01-30	2025-01-29
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	Tonscend	JS32-RSE V4.0.0	SZ-WRG-S-058	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022-01-05	2025-01-04
Humidity/ Temperature Indicator	Deli	8838	SEM002-46	2023/7/28	2024/7/27

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	2024-01-30	2025-01-29
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2024-01-30	2025-01-29
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	Tonscend	JS32-RSE V4.0.0	SZ-WRG-S-058	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022-01-05	2025-01-04
Humidity/ Temperature Indicator	Deli	8838	SEM002-46	2023/7/28	2024/7/27

DFS Test					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18

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Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18
Spectrum Analyzer	Keysight	N9020A	SZ-WRG-M-002	2023-09-14	2024-09-13
Signal Generator	Keysight	N5181A	SZ-WRG-M-005	2023-09-14	2024-09-13
DC power supply	Tonscend	TS0806-4ADC	SZ-WRG-A-007	NCR	NCR
RF Control Unit	Tonscend	JS0806-2	SZ-WRG-M-008	2023-09-14	2024-09-13
Test Software	Tonscend	JS1120 V3.2.22	N/A	NCR	NCR
Router	NETGEAR	R7800	SZ-WRG-A-072	NCR	NCR
Signal Generator	Rohde & Schwarz	SMM100A	SZ-WRG-M-011	2024-01-30	2025-01-29

General used equipment					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17

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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

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an 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 device and no consideration of replacement. The best case gain of the antenna is

5150MHz to 5250MHz: -0.23dBi(Ant21A); 1.51dBi(Ant23);

5250MHz to 5350MHz: 0.04dBi(Ant21A); 1.01dBi(Ant23);

5470MHz to 5725MHz: 1.79dBi(Ant21A); 0.6dBi(Ant23);

5725MHz to 5850MHz: 1.16dBi(Ant21A); -0.03dBi(Ant23);.

Antenna location: Refer to internal photo.

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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detected absence of information to transmit or operational failure, it will be automatically shut off.

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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)
Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dB μV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		

7.1.1 E.U.T. Operation

Operating Environment:
Temperature: 23.8 °C Humidity: 53.2 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	10	TX mode (U-NII-2A) _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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	11	TX mode (U-NII-2C) _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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	12	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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is

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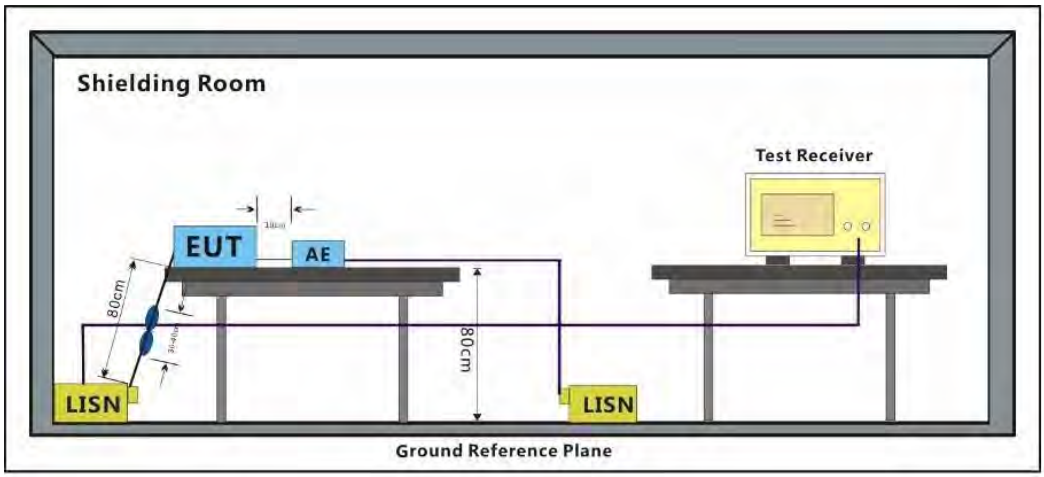
		recorded in the report.

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor

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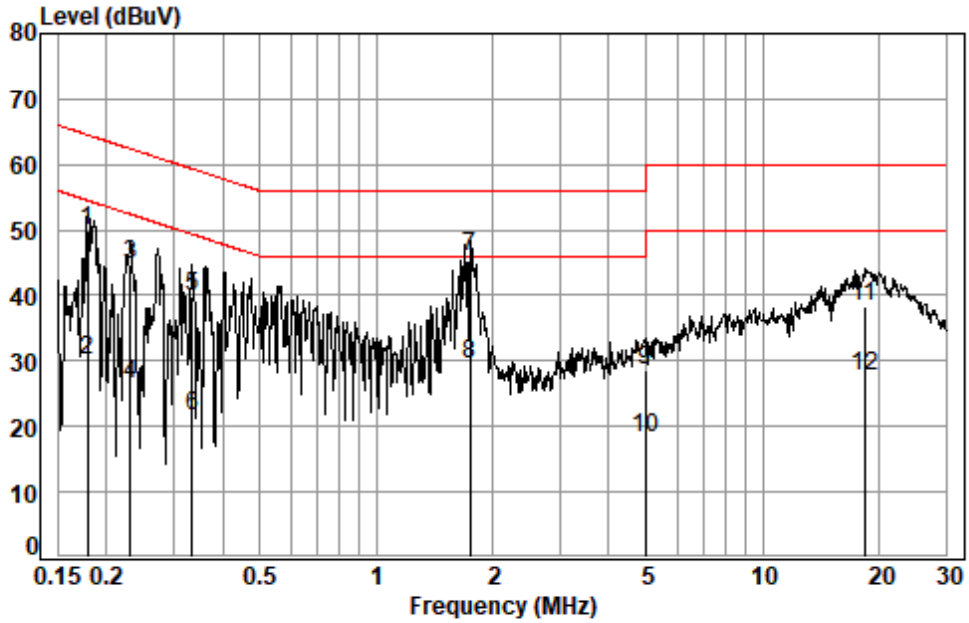
Test Mode: 09; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 01307WM
Test mode: 09

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1		0.1787	0.02	10.91	39.01	49.94	64.55	-14.61	QP
2		0.1787	0.02	10.91	19.14	30.07	54.55	-24.48	Average
3		0.2304	0.03	10.75	34.07	44.85	62.44	-17.59	QP
4		0.2304	0.03	10.75	15.74	26.52	52.44	-25.92	Average
5		0.3338	0.03	10.77	29.01	39.81	59.35	-19.54	QP
6		0.3338	0.03	10.77	10.94	21.74	49.35	-27.61	Average
7	*	1.7529	0.07	10.65	35.13	45.85	56.00	-10.15	QP
8	*	1.7529	0.07	10.65	18.84	29.56	46.00	-16.44	Average
9		4.9782	0.09	10.33	18.15	28.57	56.00	-27.43	QP
10		4.9782	0.09	10.33	7.70	18.12	46.00	-27.88	Average
11		18.3284	0.26	10.91	27.24	38.41	60.00	-21.59	QP
12		18.3284	0.26	10.91	16.40	27.57	50.00	-22.43	Average

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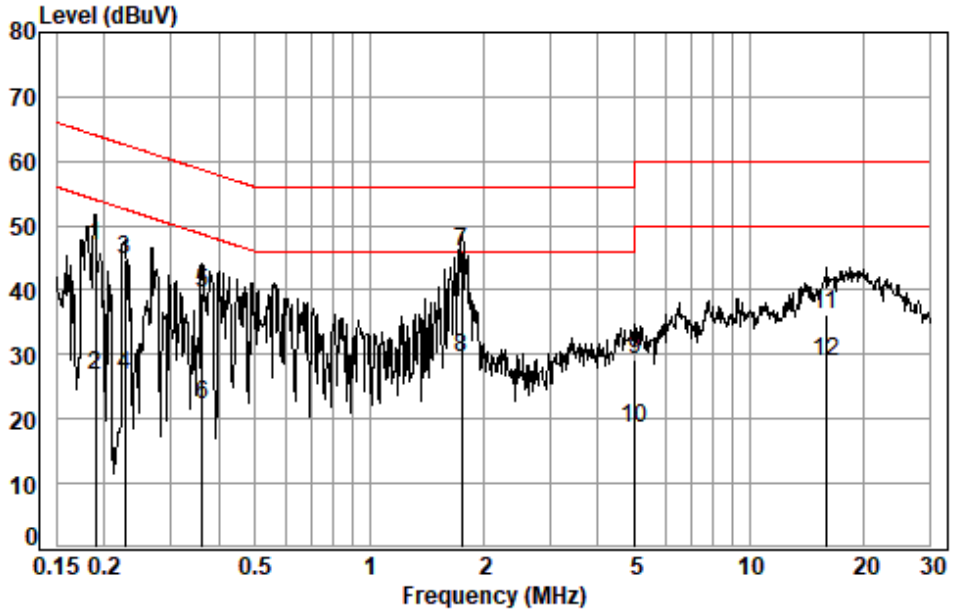
Test Mode: 09; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 01307WM
Test mode: 09

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1894	0.02	10.83	35.91	46.76	64.06	-17.30	QP
2	0.1894	0.02	10.83	15.78	26.63	54.06	-27.43	Average
3	0.2268	0.03	10.78	33.80	44.61	62.57	-17.96	QP
4	0.2268	0.03	10.78	15.86	26.67	52.57	-25.90	Average
5	0.3634	0.03	10.54	29.12	39.69	58.65	-18.96	QP
6	0.3634	0.03	10.54	11.61	22.18	48.65	-26.47	Average
7 *	1.7529	0.07	10.97	35.03	46.07	56.00	-9.93	QP
8 *	1.7529	0.07	10.97	18.39	29.43	46.00	-16.57	Average
9	5.0046	0.09	11.11	17.88	29.08	60.00	-30.92	QP
10	5.0046	0.09	11.11	7.24	18.44	50.00	-31.56	Average
11	15.9698	0.24	10.42	25.54	36.20	60.00	-23.80	QP
12	15.9698	0.24	10.42	18.17	28.83	50.00	-21.17	Average

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7.2 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) or 11dBm+10logB*
5470-5725	≤250mW(24dBm) or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.0 °C Humidity: 45.7 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	12	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

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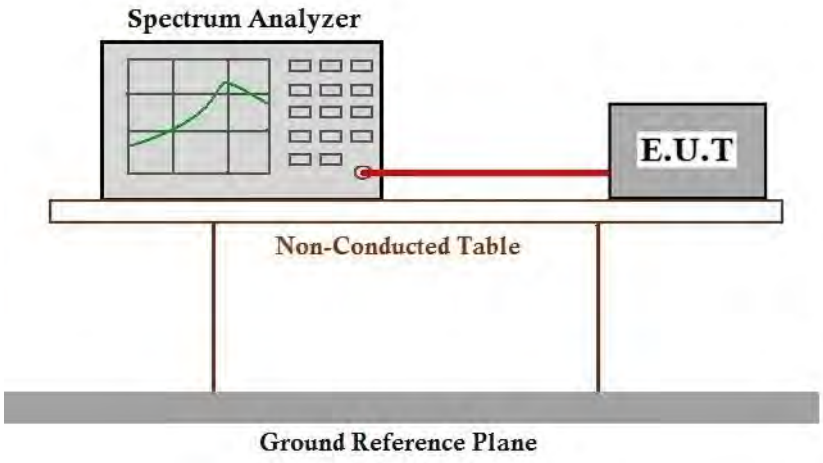
		found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details

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7.3 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
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

7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 23.5 °C Humidity: 47.5 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a;

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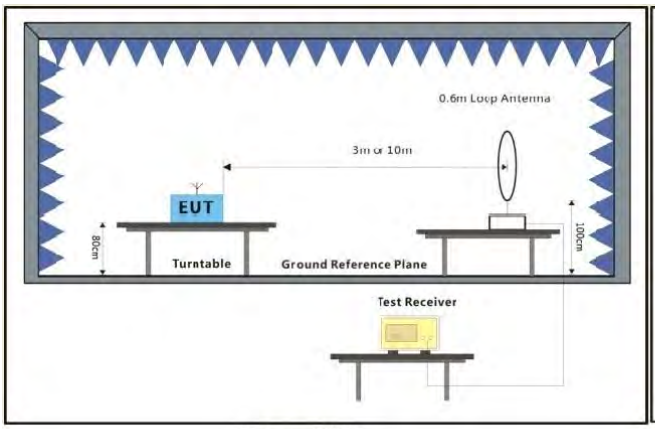
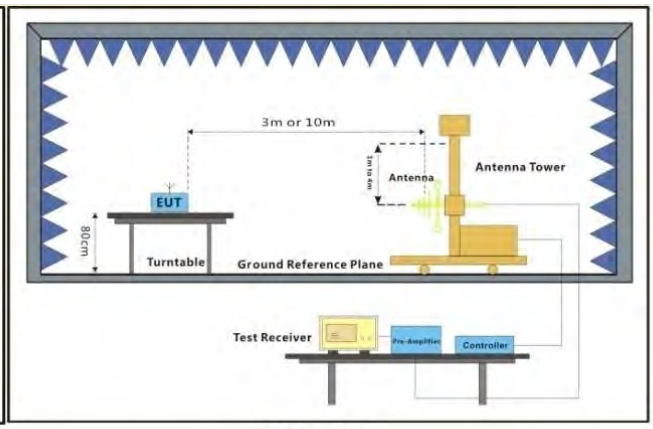
		data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



Below 30MHz



30MHz-1GHz

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7.3.4 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.

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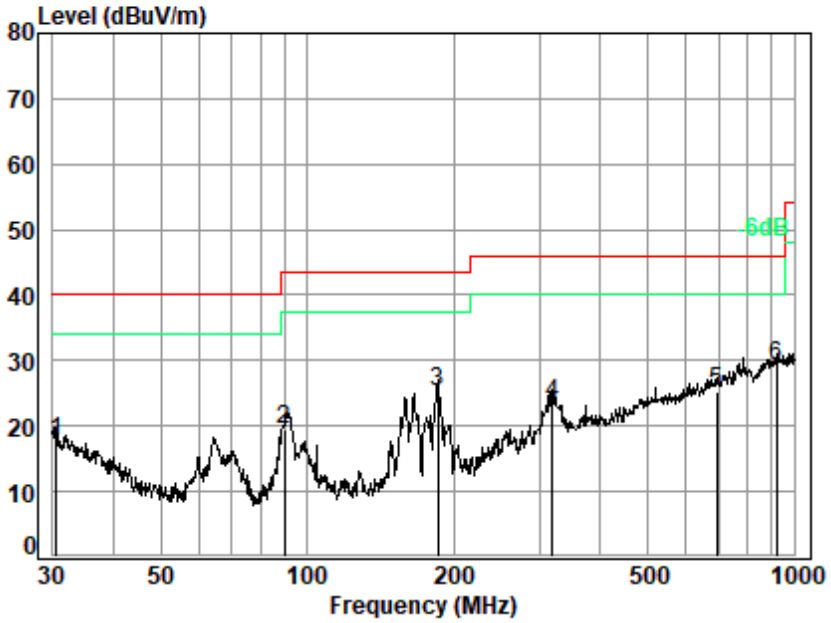
Test Mode: 14; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 01307WM
Test Mode: 14

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.53	20.95	0.65	27.79	23.90	17.71	40.00	-22.29	QP
2	89.90	11.72	1.13	27.62	34.34	19.57	43.50	-23.93	QP
3	185.79	14.29	1.65	27.23	36.39	25.10	43.50	-18.40	QP
4	318.82	18.48	2.24	26.83	29.60	23.49	46.00	-22.51	QP
5	694.42	25.82	3.49	27.74	23.82	25.39	46.00	-20.61	QP
6 q	919.29	28.17	4.14	26.63	23.41	29.09	46.00	-16.91	QP

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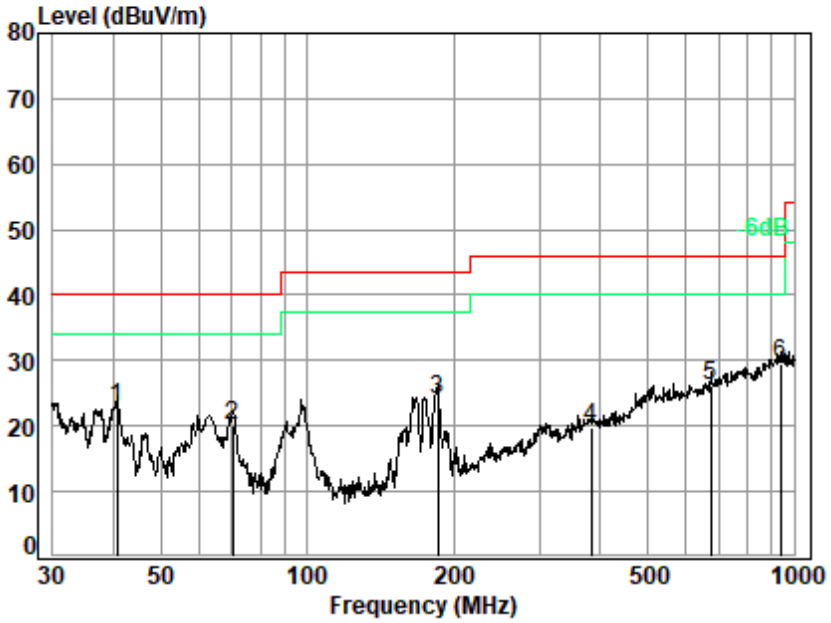
Test Mode: 14; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 01307WM
Test Mode: 14

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	40.70	16.05	0.76	27.76	33.70	22.75	40.00	-17.25	QP
2	70.34	10.59	0.99	27.68	36.23	20.13	40.00	-19.87	QP
3	185.14	14.27	1.65	27.23	35.45	24.14	43.50	-19.36	QP
4	382.59	20.90	2.48	27.09	23.43	19.72	46.00	-26.28	QP
5	672.84	25.64	3.43	27.79	24.92	26.20	46.00	-19.80	QP
6 q	938.83	28.15	4.19	26.49	23.52	29.37	46.00	-16.63	QP

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7.4 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
Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	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.

7.4.1 E.U.T. Operation

Operating Environment:
Temperature: 21.8 °C Humidity: 50.7 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.

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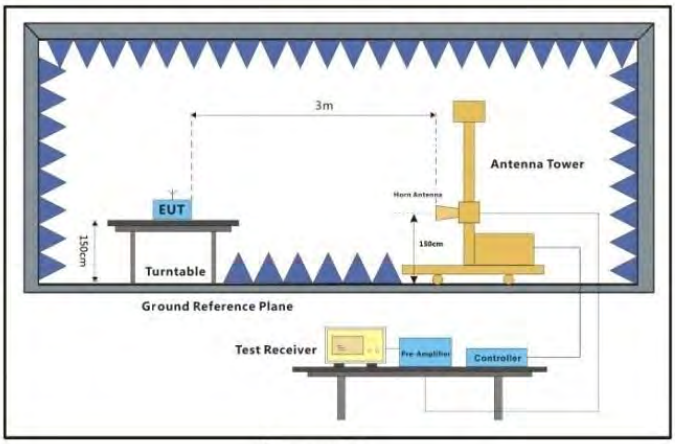
Final test	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



Above 1GHz

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7.4.4 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.

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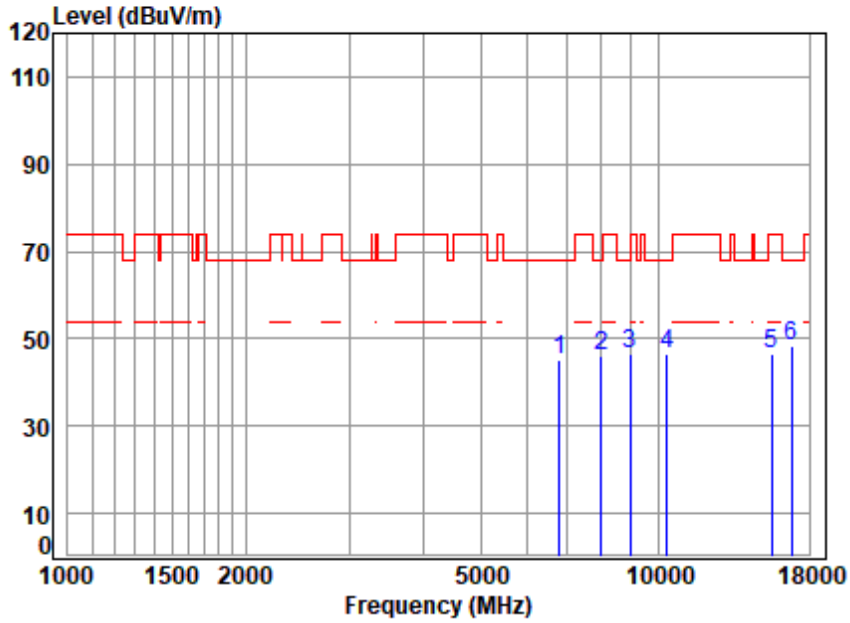
Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5180 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6811.800	11.37	35.92	56.74	54.64	45.19	68.20	-23.01	peak
2	7993.045	11.56	37.79	55.91	52.70	46.14	68.20	-22.06	peak
3	8949.816	12.19	38.50	55.05	50.93	46.57	68.20	-21.63	peak
4	10360.000	13.60	39.00	53.88	48.03	46.75	68.20	-21.45	peak
5	15540.000	17.00	38.56	54.14	44.95	46.37	74.00	-27.63	peak
6	pp16829.720	17.67	39.60	54.25	45.54	48.56	68.20	-19.64	peak

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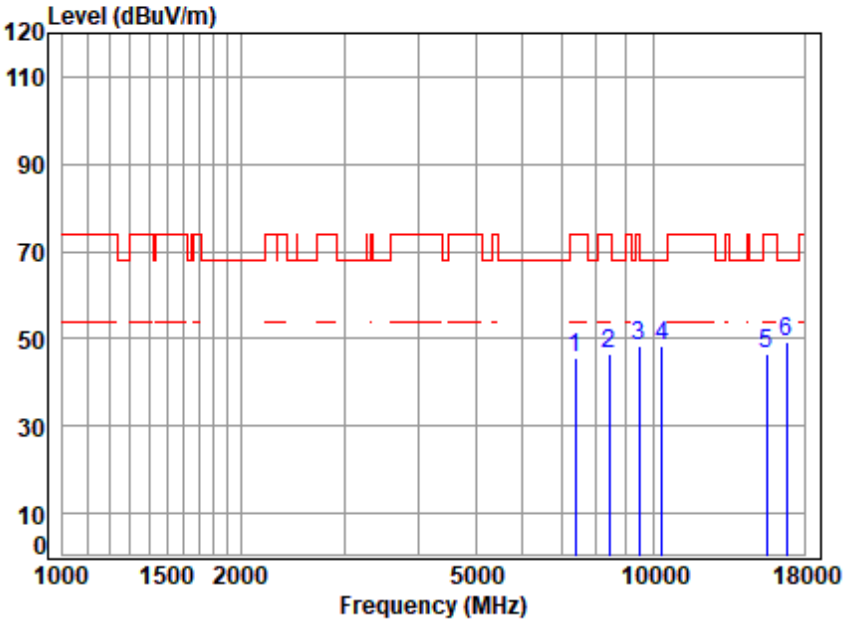
Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5180 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7382.582	11.50	36.73	56.39	53.94	45.78	74.00	-28.22	peak
2	8410.663	11.70	38.56	55.53	51.89	46.62	74.00	-27.38	peak
3	9446.244	12.42	38.80	54.60	51.71	48.33	74.00	-25.67	peak
4	10360.000	13.60	39.00	53.88	49.43	48.15	68.20	-20.05	peak
5	15540.000	17.00	38.56	54.14	45.24	46.66	74.00	-27.34	peak
6	pp16795.470	17.47	39.59	54.24	46.26	49.08	68.20	-19.12	peak

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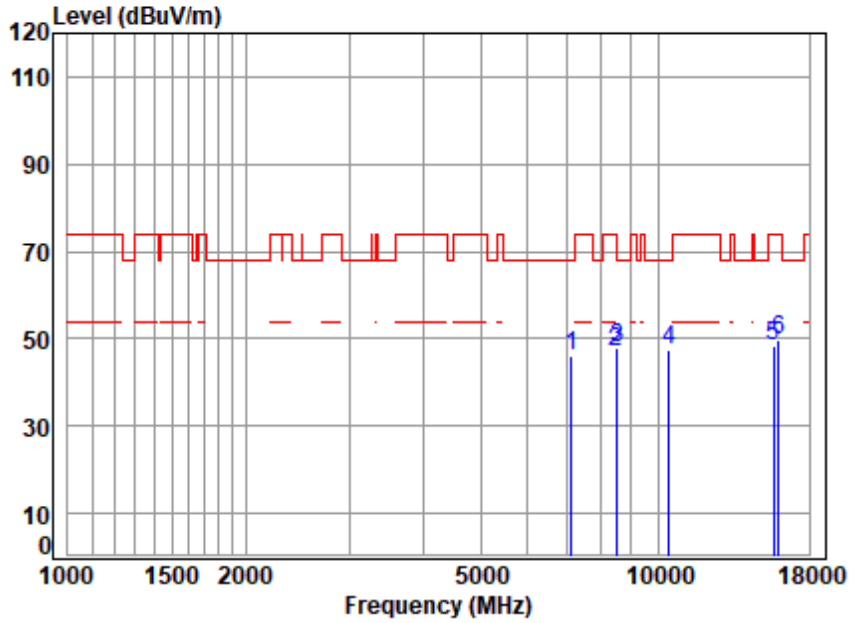
Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5220 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7124.029	11.88	36.45	56.60	54.40	46.13	68.20	-22.07	peak
2	8488.119	12.23	38.32	55.46	51.98	47.07	74.00	-26.93	peak
3 pp	8514.096	12.26	38.30	55.44	52.57	47.69	68.20	-20.51	peak
4	10440.000	13.63	39.04	53.84	48.77	47.60	68.20	-20.60	peak
5	15660.000	17.23	38.56	54.10	46.74	48.43	74.00	-25.57	peak
6	16010.360	17.14	38.59	54.00	48.19	49.92	74.00	-24.08	peak

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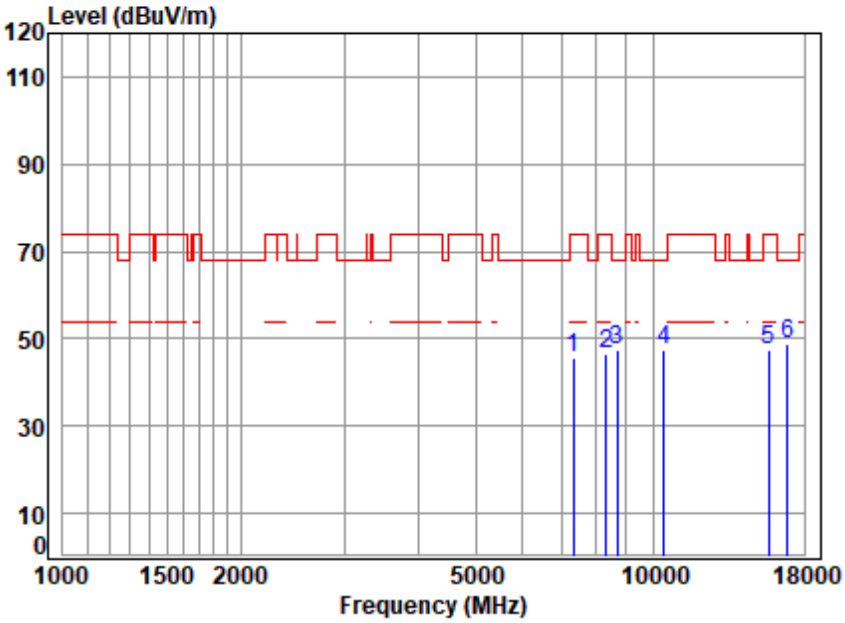
Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5220 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7330.131	11.51	36.76	56.44	53.60	45.43	74.00	-28.57	peak
2	8325.429	11.73	38.31	55.61	51.94	46.37	74.00	-27.63	peak
3	8689.318	12.08	38.56	55.28	52.15	47.51	68.20	-20.69	peak
4	10440.000	13.63	39.04	53.84	48.43	47.26	68.20	-20.94	peak
5	15660.000	17.23	38.56	54.10	45.95	47.64	74.00	-26.36	peak
6	pp16881.220	18.04	39.60	54.26	45.57	48.95	68.20	-19.25	peak

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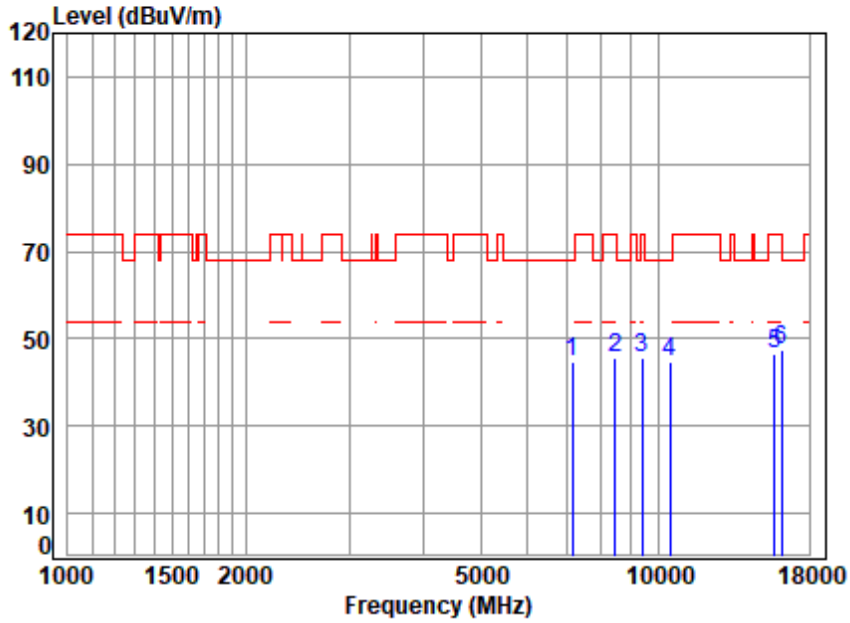

Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5240 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7145.831	11.77	36.49	56.58	52.86	44.54	68.20	-23.66	peak
2	8453.606	11.99	38.39	55.49	50.66	45.55	74.00	-28.45	peak
3	9379.132	12.27	38.80	54.66	49.42	45.83	74.00	-28.17	peak
4	pp10480.000	13.64	39.08	53.81	45.87	44.78	68.20	-23.42	peak
5	15720.000	17.22	38.58	54.08	44.98	46.70	74.00	-27.30	peak
6	16190.760	17.19	38.50	54.06	45.96	47.59	74.00	-26.41	peak

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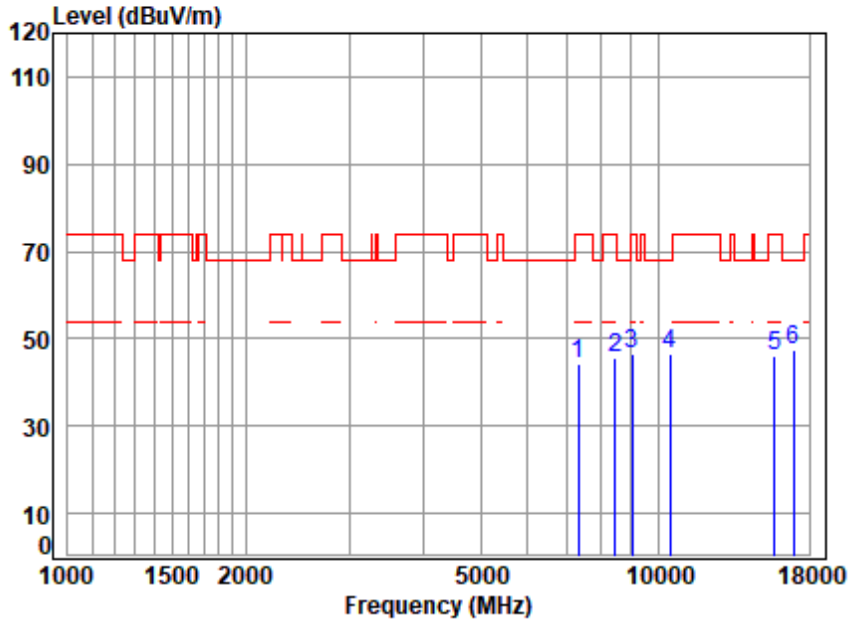
Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5240 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7307.767	11.51	36.72	56.45	52.31	44.09	74.00	-29.91	peak
2	8462.222	12.05	38.38	55.48	50.49	45.44	74.00	-28.56	peak
3	9032.237	12.14	38.60	54.97	50.88	46.65	74.00	-27.35	peak
4	10480.000	13.64	39.08	53.81	47.71	46.62	68.20	-21.58	peak
5	15720.000	17.22	38.58	54.08	44.16	45.88	74.00	-28.12	peak
6	pp16915.650	18.16	39.62	54.27	43.90	47.41	68.20	-20.79	peak

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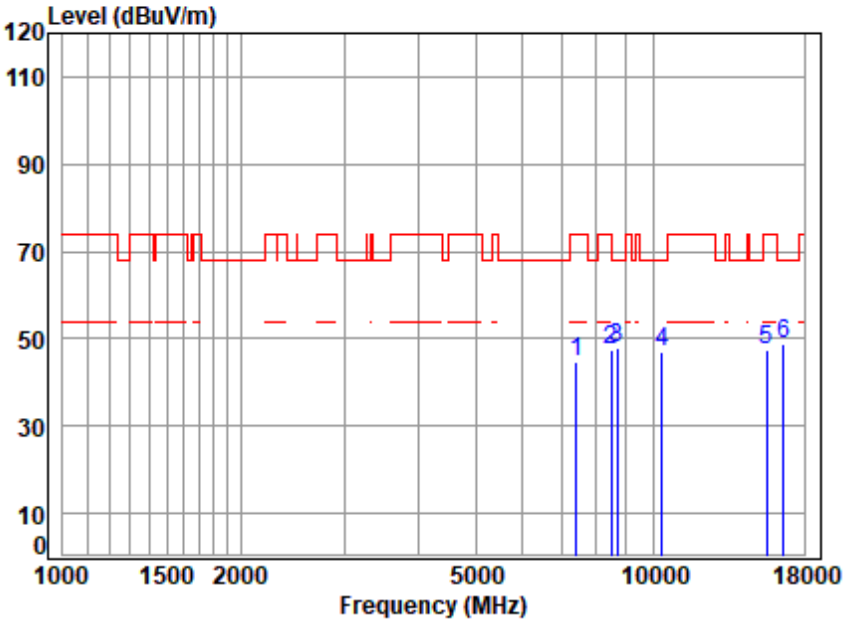
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5180 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7405.175	11.49	36.71	56.38	52.99	44.81	74.00	-29.19	peak
2	8479.478	12.17	38.34	55.47	52.40	47.44	74.00	-26.56	peak
3	8671.635	12.05	38.49	55.30	52.79	48.03	68.20	-20.17	peak
4	10360.000	13.60	39.00	53.88	48.50	47.22	68.20	-20.98	peak
5	15540.000	17.00	38.56	54.14	46.26	47.68	74.00	-26.32	peak
6	pp16625.260	17.63	39.25	54.19	46.09	48.78	68.20	-19.42	peak

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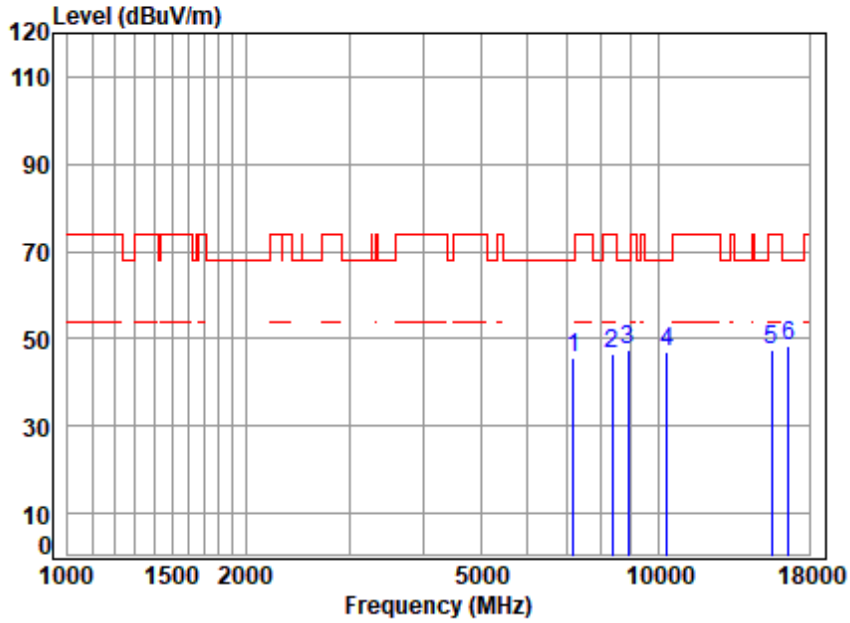
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5180 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7167.700	11.67	36.54	56.57	54.14	45.78	68.20	-22.42	peak
2	8342.406	11.70	38.58	55.59	51.98	46.67	74.00	-27.33	peak
3	8904.353	12.22	38.59	55.09	51.95	47.67	68.20	-20.53	peak
4	10360.000	13.60	39.00	53.88	48.09	46.81	68.20	-21.39	peak
5	15540.000	17.00	38.56	54.14	46.06	47.48	74.00	-26.52	peak
6	pp16642.210	17.62	39.28	54.19	45.87	48.58	68.20	-19.62	peak

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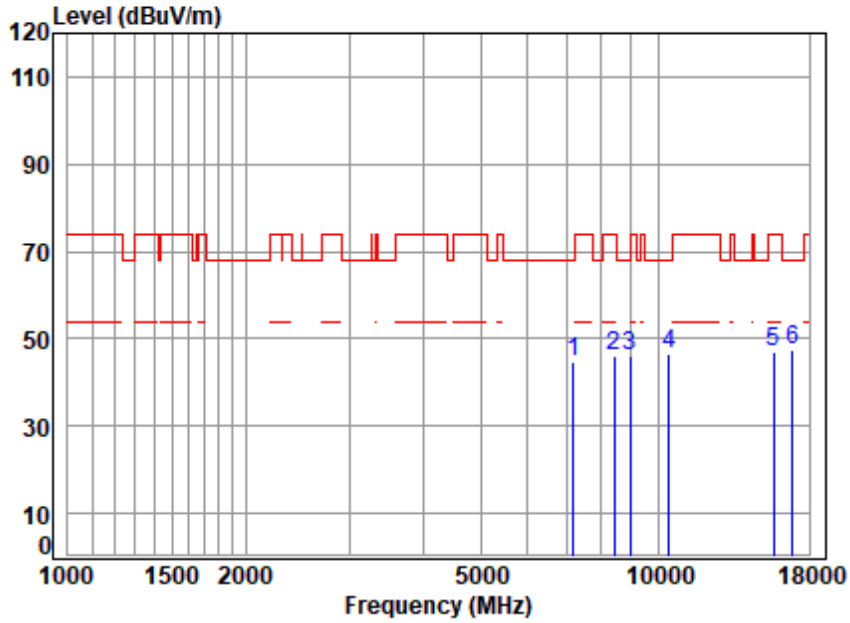
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5220 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7175.005	11.64	36.55	56.56	52.93	44.56	68.20	-23.64	peak
2	8419.234	11.76	38.52	55.52	51.15	45.91	74.00	-28.09	peak
3	8949.816	12.19	38.50	55.05	50.33	45.97	68.20	-22.23	peak
4	10440.000	13.63	39.04	53.84	47.85	46.68	68.20	-21.52	peak
5	15660.000	17.23	38.56	54.10	45.22	46.91	74.00	-27.09	peak
6	pp16898.430	18.17	39.60	54.27	43.99	47.49	68.20	-20.71	peak

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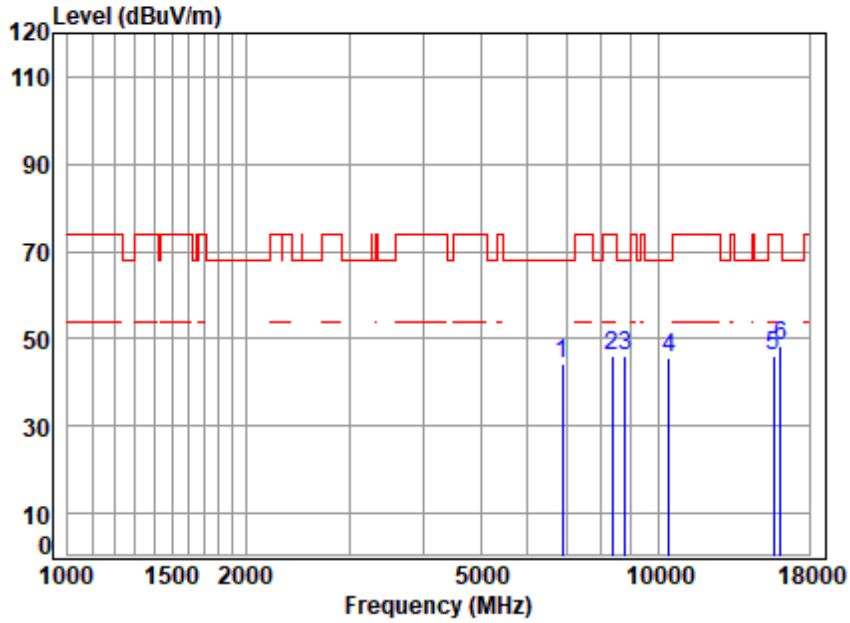
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5220 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6888.550	11.37	36.15	56.72	53.49	44.29	68.20	-23.91	peak
2	8359.419	11.68	38.68	55.58	51.16	45.94	74.00	-28.06	peak
3 pp	8796.179	12.24	38.50	55.18	50.41	45.97	68.20	-22.23	peak
4	10440.000	13.63	39.04	53.84	46.71	45.54	68.20	-22.66	peak
5	15660.000	17.23	38.56	54.10	44.23	45.92	74.00	-28.08	peak
6	16075.730	17.09	38.52	54.02	46.82	48.41	74.00	-25.59	peak

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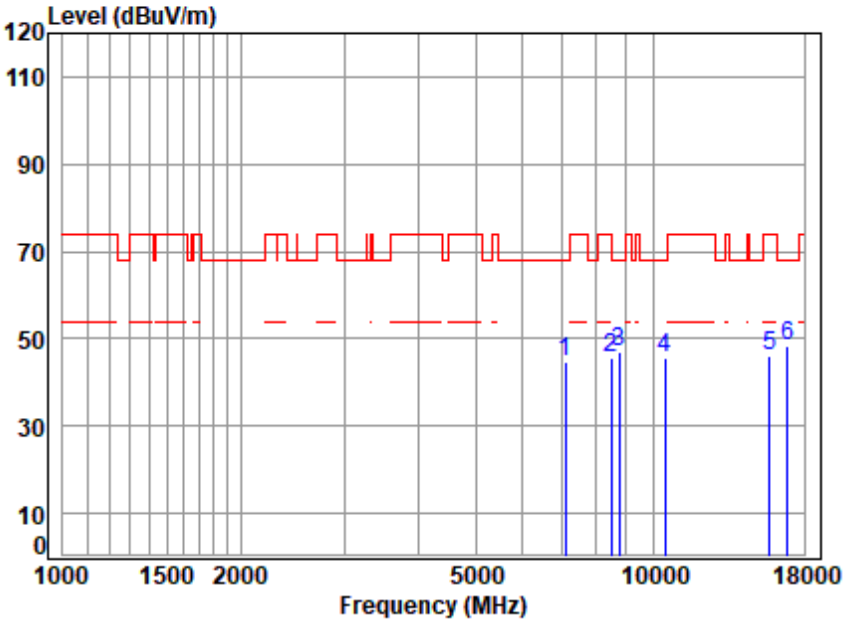
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5240 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7095.063	11.96	36.39	56.62	53.09	44.82	68.20	-23.38	peak
2	8496.769	12.29	38.31	55.45	50.61	45.76	74.00	-28.24	peak
3	8751.494	12.17	38.50	55.22	51.51	46.96	68.20	-21.24	peak
4	10480.000	13.64	39.08	53.81	46.54	45.45	68.20	-22.75	peak
5	15720.000	17.22	38.58	54.08	44.53	46.25	74.00	-27.75	peak
6	pp16846.870	17.80	39.60	54.25	45.15	48.30	68.20	-19.90	peak

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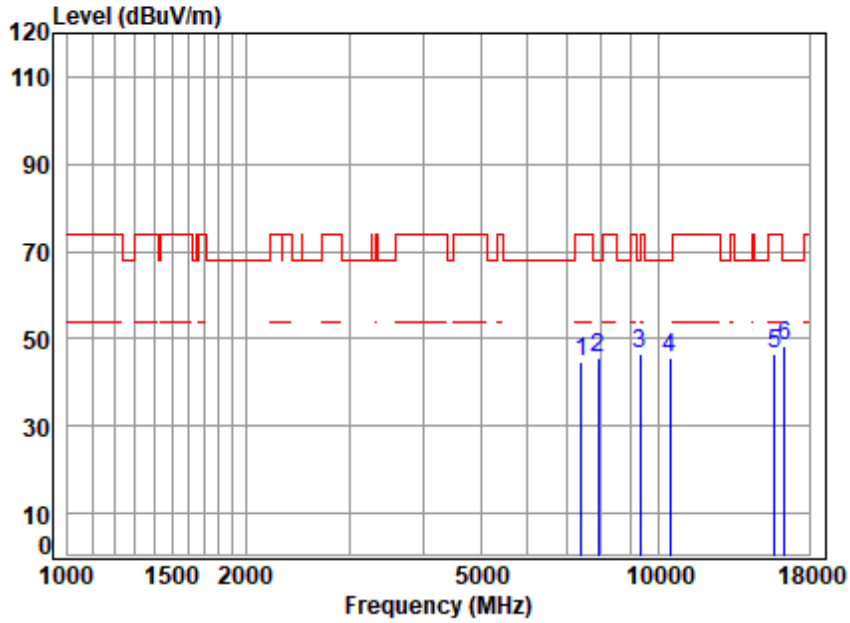
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5240 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7397.636	11.50	36.70	56.38	52.95	44.77	74.00	-29.23	peak
2	7912.043	11.54	37.62	55.97	52.26	45.45	68.20	-22.75	peak
3	9303.017	12.17	38.80	54.73	50.32	46.56	74.00	-27.44	peak
4	10480.000	13.64	39.08	53.81	46.88	45.79	68.20	-22.41	peak
5	15720.000	17.22	38.58	54.08	44.96	46.68	74.00	-27.32	peak
6	pp16389.870	17.17	38.78	54.12	46.60	48.43	68.20	-19.77	peak

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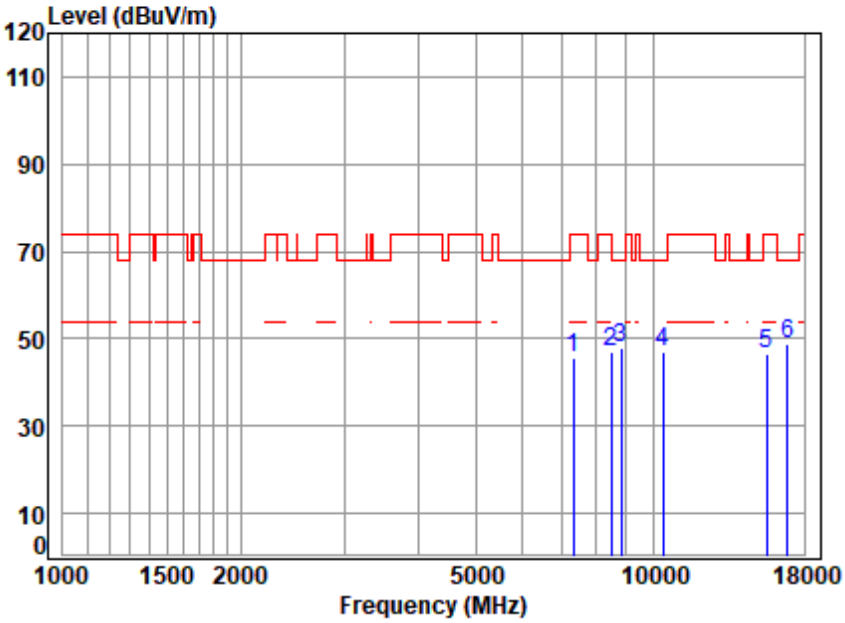
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5190 TX RSE
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7307.767	11.51	36.72	56.45	53.65	45.43	74.00	-28.57	peak
2	8496.769	12.29	38.31	55.45	52.02	47.17	74.00	-26.83	peak
3	8832.090	12.24	38.50	55.15	52.27	47.86	68.20	-20.34	peak
4	10380.000	13.61	39.00	53.87	48.30	47.04	68.20	-21.16	peak
5	15570.000	17.09	38.53	54.13	45.06	46.55	74.00	-27.45	peak
6	pp16898.430	18.17	39.60	54.27	45.48	48.98	68.20	-19.22	peak

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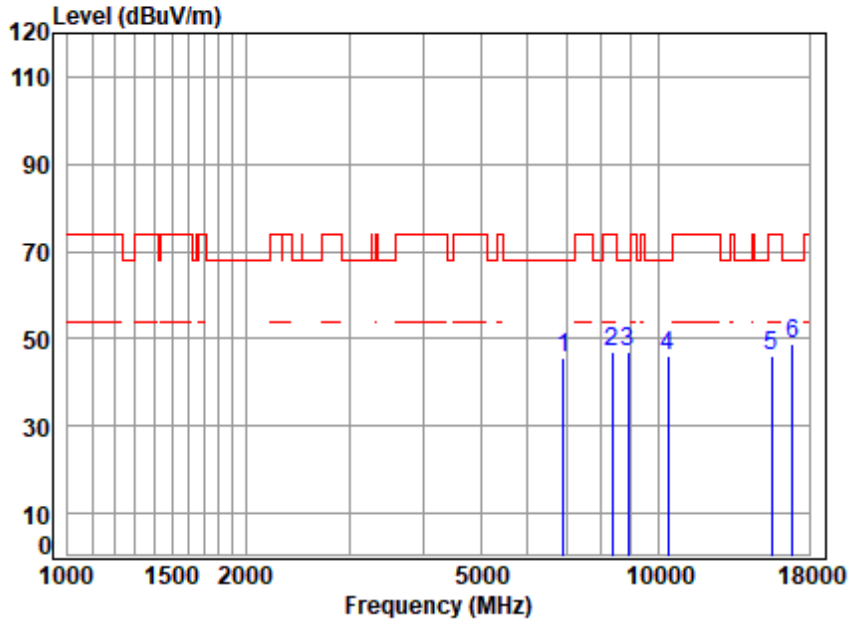
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5190 TX RSE
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6916.673	11.37	36.17	56.72	54.63	45.45	68.20	-22.75	peak
2	8342.406	11.70	38.58	55.59	52.32	47.01	74.00	-26.99	peak
3	8895.287	12.22	38.59	55.09	51.22	46.94	68.20	-21.26	peak
4	10380.000	13.61	39.00	53.87	47.32	46.06	68.20	-22.14	peak
5	15570.000	17.09	38.53	54.13	44.71	46.20	74.00	-27.80	peak
6	pp16881.220	18.04	39.60	54.26	45.65	49.03	68.20	-19.17	peak

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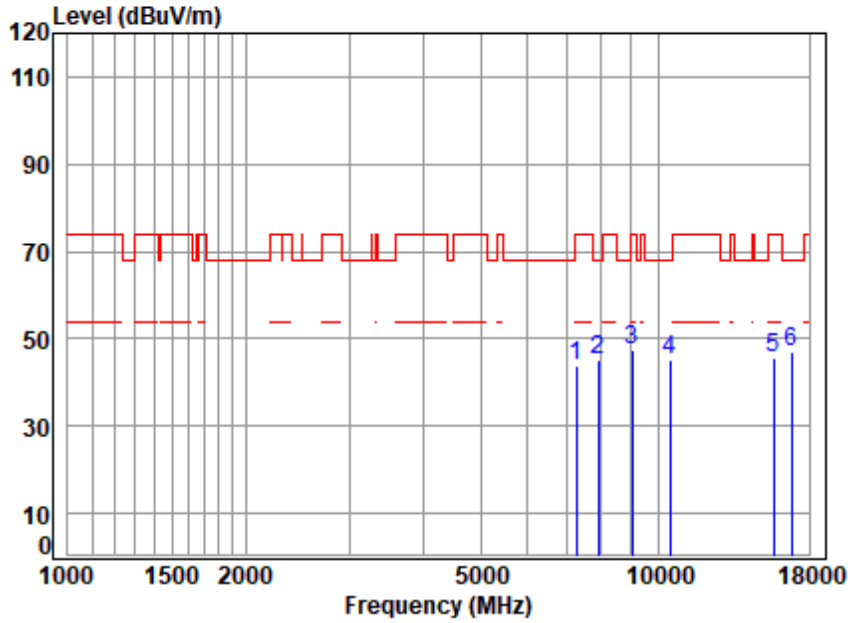
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5230 TX RSE
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7270.644	11.51	36.64	56.48	52.00	43.67	74.00	-30.33	peak
2	7928.178	11.55	37.66	55.96	52.11	45.36	68.20	-22.84	peak
3	9023.043	12.14	38.60	54.98	51.89	47.65	74.00	-26.35	peak
4	10460.000	13.63	39.06	53.82	46.52	45.39	68.20	-22.81	peak
5	15690.000	17.26	38.59	54.09	44.02	45.78	74.00	-28.22	peak
6	pp16795.470	17.47	39.59	54.24	44.37	47.19	68.20	-21.01	peak

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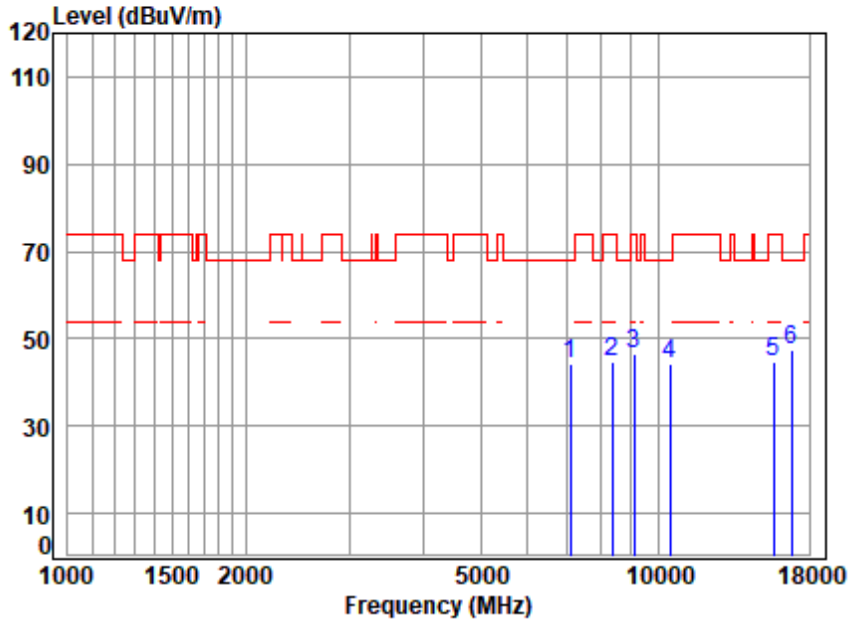
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5230 TX RSE
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7095.063	11.96	36.39	56.62	52.38	44.11	68.20	-24.09	peak
2	8350.908	11.69	38.70	55.58	49.86	44.67	74.00	-29.33	peak
3	9096.867	12.12	38.60	54.91	50.55	46.36	74.00	-27.64	peak
4	10460.000	13.63	39.06	53.82	45.30	44.17	68.20	-24.03	peak
5	15690.000	17.26	38.59	54.09	42.91	44.67	74.00	-29.33	peak
6	pp16778.370	17.49	39.56	54.23	44.81	47.63	68.20	-20.57	peak

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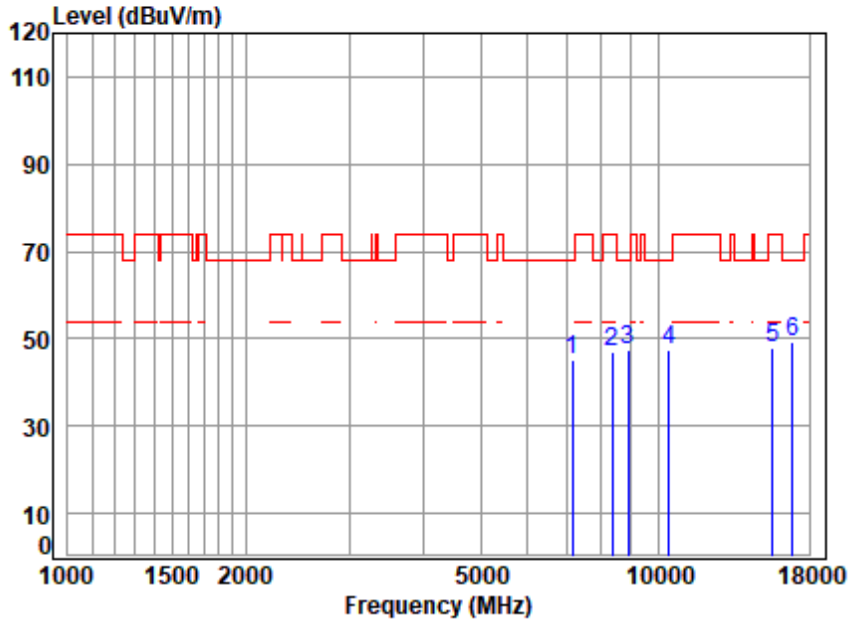
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5210 TX RSE
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7153.113	11.74	36.51	56.58	53.71	45.38	68.20	-22.82	peak
2	8359.419	11.68	38.68	55.58	52.12	46.90	74.00	-27.10	peak
3	8895.287	12.22	38.59	55.09	51.72	47.44	68.20	-20.76	peak
4	10420.000	13.62	39.02	53.85	48.72	47.51	68.20	-20.69	peak
5	15630.000	17.20	38.53	54.11	46.45	48.07	74.00	-25.93	peak
6	pp16864.040	17.92	39.60	54.26	45.95	49.21	68.20	-18.99	peak

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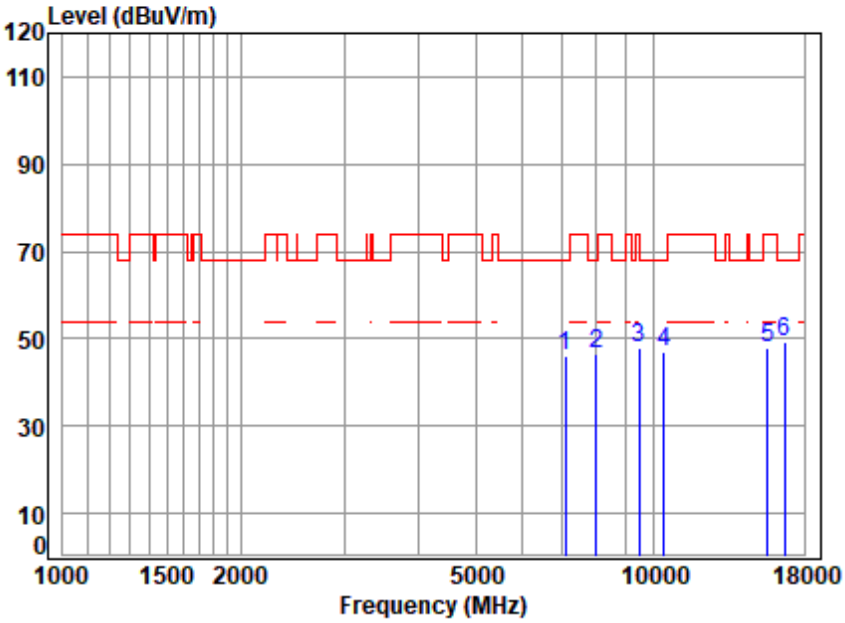
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5210 TX RSE
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7095.063	11.96	36.39	56.62	54.57	46.30	68.20	-21.90	peak
2	8009.345	11.55	37.80	55.89	53.09	46.55	68.20	-21.65	peak
3	9446.244	12.42	38.80	54.60	51.12	47.74	74.00	-26.26	peak
4	10420.000	13.62	39.02	53.85	48.16	46.95	68.20	-21.25	peak
5	15630.000	17.20	38.53	54.11	46.15	47.77	74.00	-26.23	peak
6	pp16693.140	17.59	39.39	54.21	46.35	49.12	68.20	-19.08	peak

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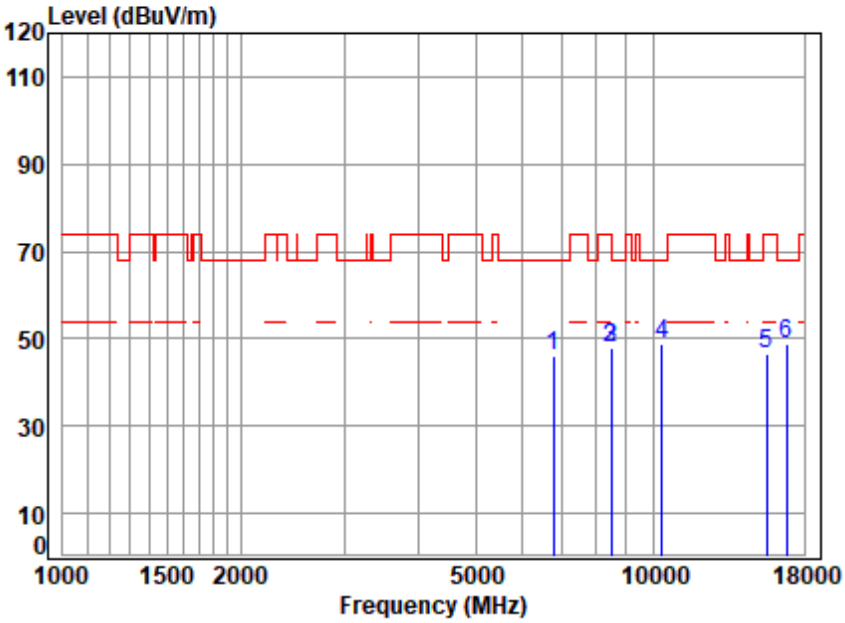
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5180 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6763.404	11.38	35.75	56.75	55.84	46.22	68.20	-21.98	peak
2	8496.769	12.29	38.31	55.45	52.75	47.90	74.00	-26.10	peak
3	8496.769	12.29	38.31	55.45	52.75	47.90	74.00	-26.10	peak
4	10360.000	13.60	39.00	53.88	50.04	48.76	68.20	-19.44	peak
5	15540.000	17.00	38.56	54.14	44.92	46.34	74.00	-27.66	peak
6	pp16795.470	17.47	39.59	54.24	45.98	48.80	68.20	-19.40	peak

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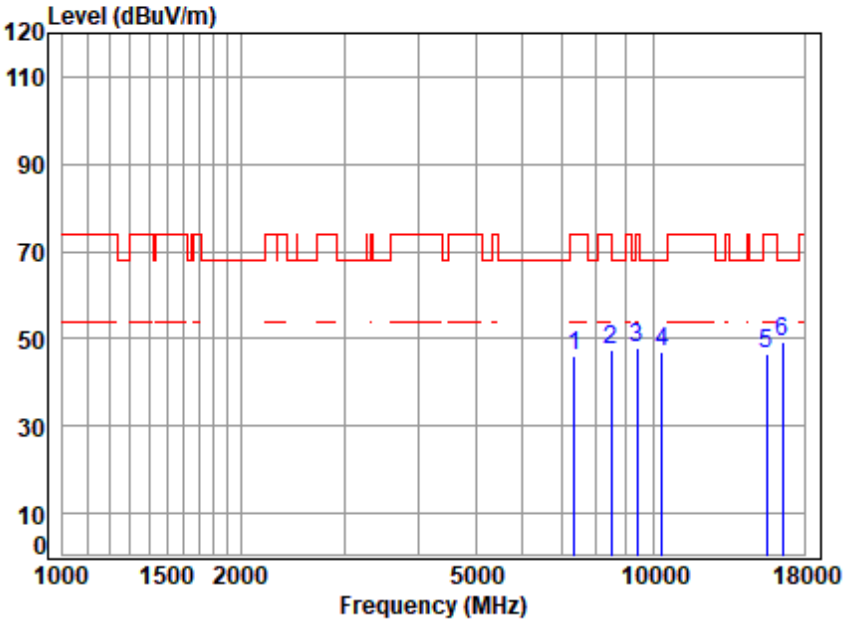
Test Mode: 14; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5180 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7352.564	11.50	36.79	56.42	54.25	46.12	74.00	-27.88	peak
2	8479.478	12.17	38.34	55.47	52.19	47.23	74.00	-26.77	peak
3	9379.132	12.27	38.80	54.66	51.32	47.73	74.00	-26.27	peak
4	10360.000	13.60	39.00	53.88	48.17	46.89	68.20	-21.31	peak
5	15540.000	17.00	38.56	54.14	45.25	46.67	74.00	-27.33	peak
6	pp16540.810	17.70	39.02	54.16	46.82	49.38	68.20	-18.82	peak

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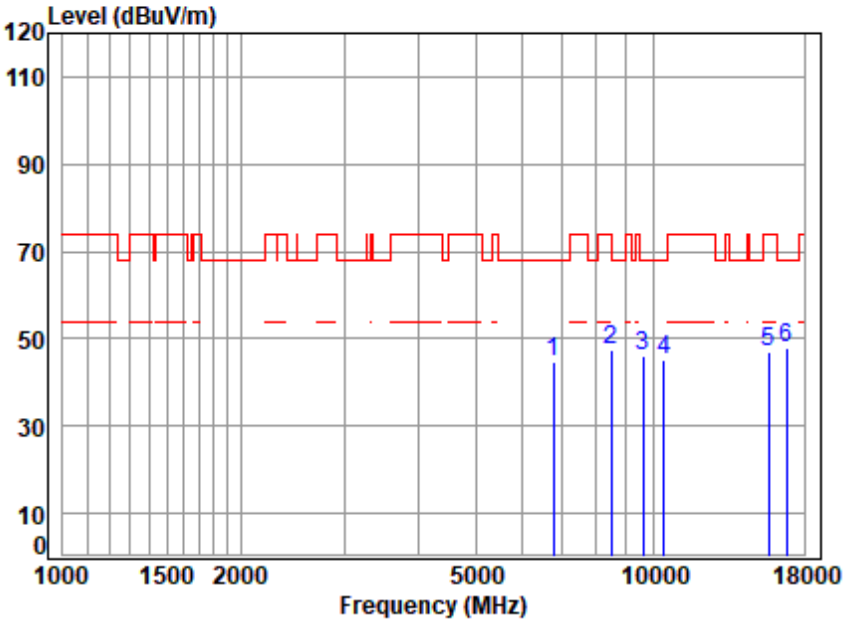
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5220 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6763.404	11.38	35.75	56.75	54.15	44.53	68.20	-23.67	peak
2	8496.769	12.29	38.31	55.45	52.18	47.33	74.00	-26.67	peak
3	9621.031	12.49	38.76	54.44	49.24	46.05	68.20	-22.15	Peak
4	10440.000	13.63	39.04	53.84	46.38	45.21	68.20	-22.99	peak
5	15660.000	17.23	38.56	54.10	45.11	46.80	74.00	-27.20	peak
6	pp16795.470	17.47	39.59	54.24	45.05	47.87	68.20	-20.33	peak

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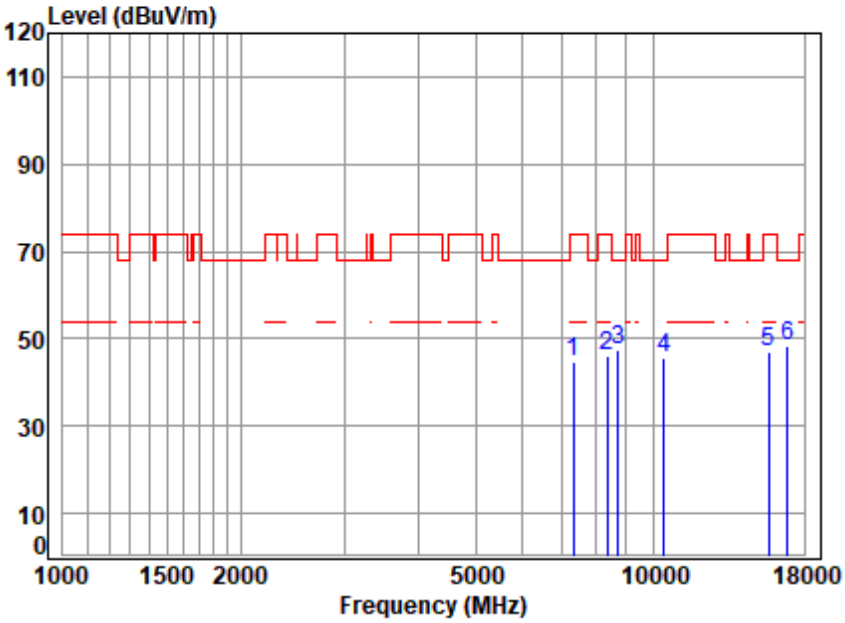
Test Mode: 14; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5220 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7307.767	11.51	36.72	56.45	53.06	44.84	74.00	-29.16	peak
2	8342.406	11.70	38.58	55.59	51.40	46.09	74.00	-27.91	peak
3	8707.038	12.10	38.59	55.26	51.88	47.31	68.20	-20.89	peak
4	10440.000	13.63	39.04	53.84	46.76	45.59	68.20	-22.61	peak
5	15660.000	17.23	38.56	54.10	45.11	46.80	74.00	-27.20	peak
6	pp16898.430	18.17	39.60	54.27	45.07	48.57	68.20	-19.63	peak

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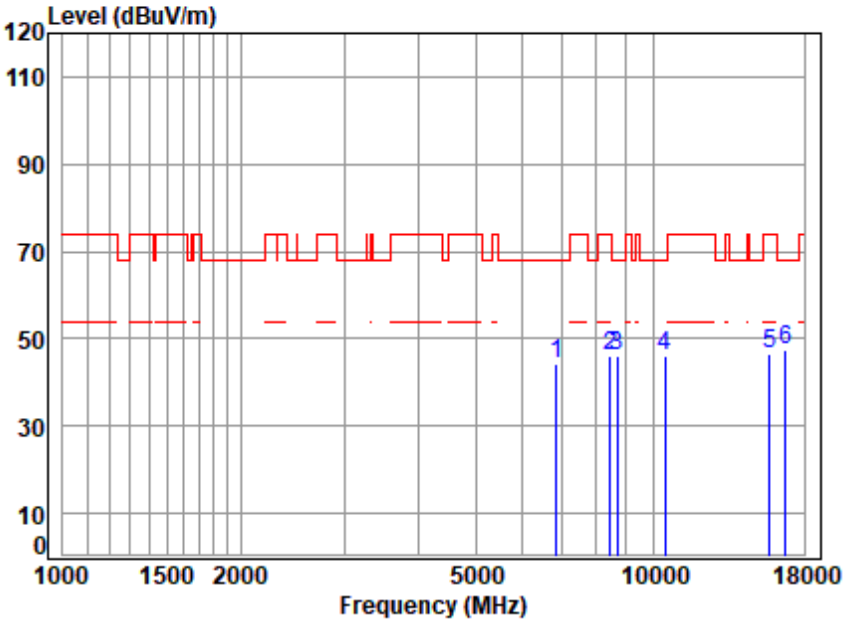
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5240 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6846.580	11.37	35.99	56.73	53.80	44.43	68.20	-23.77	peak
2	8453.606	11.99	38.39	55.49	51.03	45.92	74.00	-28.08	peak
3	8689.318	12.08	38.56	55.28	50.89	46.25	68.20	-21.95	peak
4	10480.000	13.64	39.08	53.81	47.21	46.12	68.20	-22.08	peak
5	15720.000	17.22	38.58	54.08	44.75	46.47	74.00	-27.53	peak
6	pp16727.180	17.55	39.45	54.22	44.77	47.55	68.20	-20.65	peak

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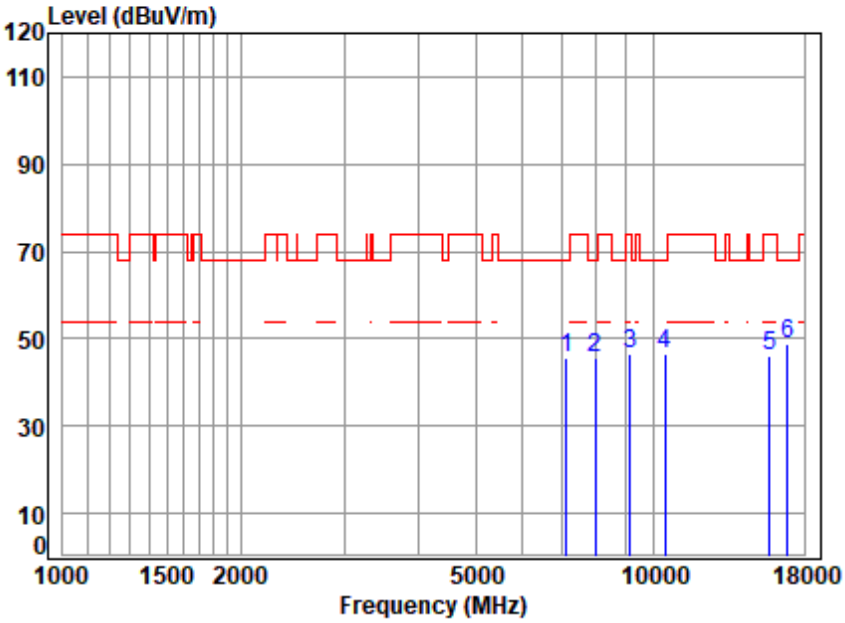
Test Mode: 14; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5240 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7124.029	11.88	36.45	56.60	53.77	45.50	68.20	-22.70	peak
2	7960.545	11.55	37.72	55.93	52.51	45.85	68.20	-22.35	peak
3	9124.708	12.17	38.65	54.89	50.55	46.48	74.00	-27.52	peak
4	10480.000	13.64	39.08	53.81	47.56	46.47	68.20	-21.73	peak
5	15720.000	17.22	38.58	54.08	44.58	46.30	74.00	-27.70	peak
6	pp16864.040	17.92	39.60	54.26	45.39	48.65	68.20	-19.55	peak

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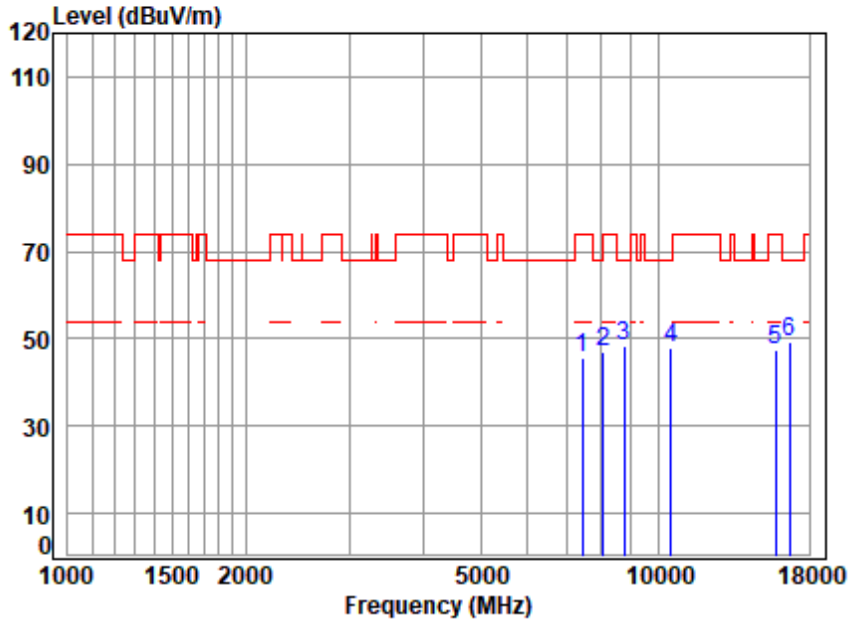
Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5260 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7442.985	11.38	36.79	56.35	53.61	45.43	74.00	-28.57	peak
2	8074.876	11.48	37.80	55.83	53.70	47.15	74.00	-26.85	peak
3	8742.585	12.16	38.51	55.23	52.79	48.23	68.20	-19.97	peak
4	10520.000	13.63	39.14	53.79	49.02	48.00	68.20	-20.20	peak
5	15780.000	17.08	38.52	54.07	45.91	47.44	74.00	-26.56	peak
6	pp16710.150	17.58	39.42	54.21	46.58	49.37	68.20	-18.83	peak

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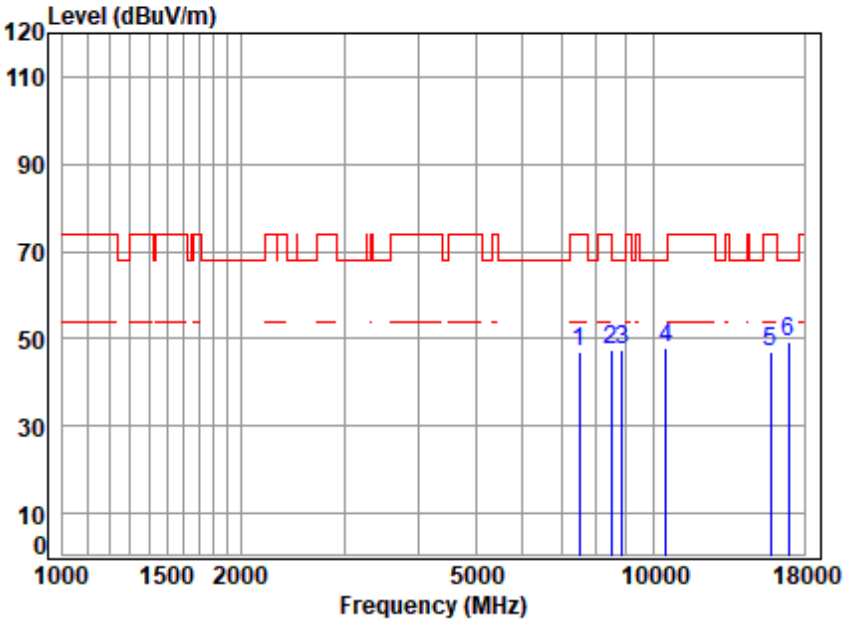
Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5260 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7488.611	11.26	36.80	56.31	55.35	47.10	74.00	-26.90	peak
2	8488.119	12.23	38.32	55.46	52.47	47.56	74.00	-26.44	peak
3	8868.147	12.23	38.54	55.12	51.85	47.50	68.20	-20.70	peak
4	10520.000	13.63	39.14	53.79	48.79	47.77	68.20	-20.43	peak
5	15780.000	17.08	38.52	54.07	45.56	47.09	74.00	-26.91	peak
6	pp16950.140	18.12	39.65	54.29	45.90	49.38	68.20	-18.82	peak

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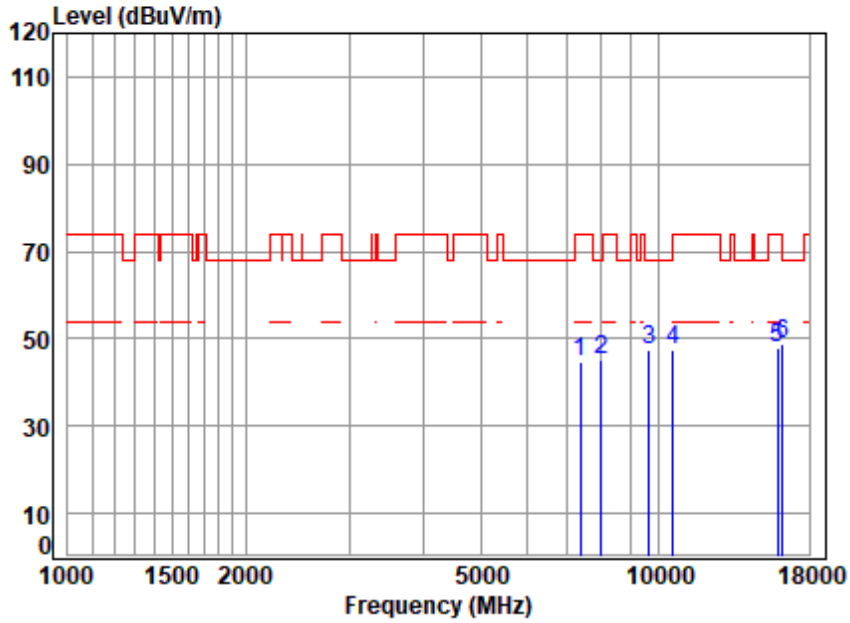
Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5300 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7382.582	11.50	36.73	56.39	53.01	44.85	74.00	-29.15	peak
2	8017.507	11.54	37.80	55.88	51.94	45.40	68.20	-22.80	peak
3	9630.836	12.51	38.74	54.43	50.50	47.32	68.20	-20.88	peak
4	10600.000	13.59	39.30	53.74	48.20	47.35	68.20	-20.85	peak
5	15900.000	17.28	38.70	54.03	45.80	47.75	74.00	-26.25	peak
6	pp16223.770	17.20	38.52	54.07	47.10	48.75	68.20	-19.45	peak

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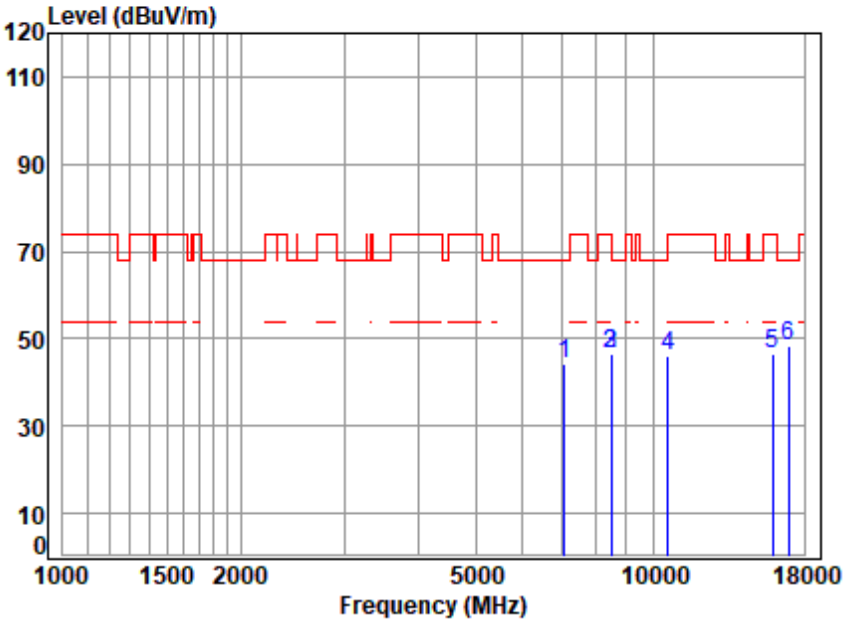
Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5300 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7066.214	11.78	36.33	56.65	53.02	44.48	68.20	-23.72	peak
2	8496.769	12.29	38.31	55.45	51.35	46.50	74.00	-27.50	peak
3	8496.769	12.29	38.31	55.45	51.35	46.50	74.00	-27.50	peak
4	10600.000	13.59	39.30	53.74	47.02	46.17	68.20	-22.03	peak
5	15900.000	17.28	38.70	54.03	44.75	46.70	74.00	-27.30	peak
6	pp16915.650	18.16	39.62	54.27	44.75	48.26	68.20	-19.94	peak

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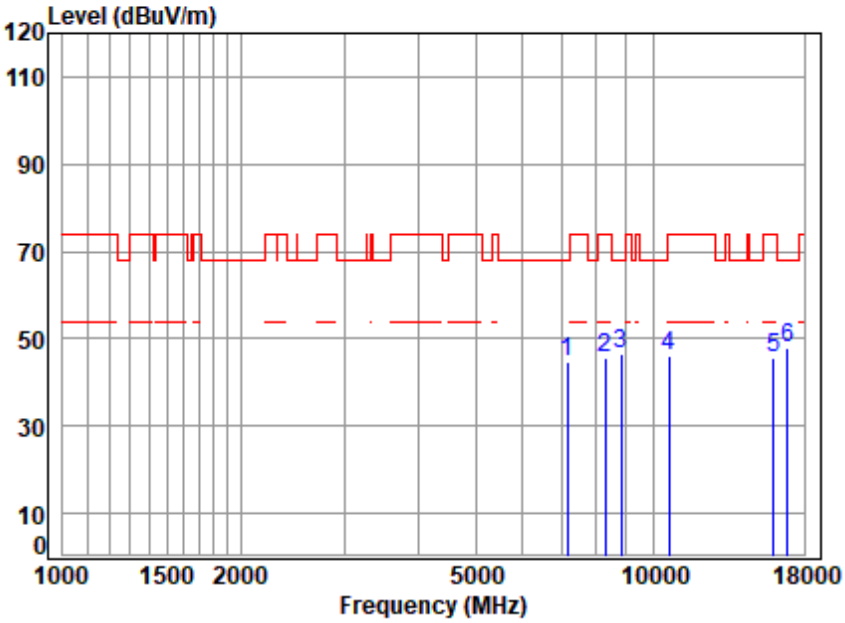
Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5320 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7153.113	11.74	36.51	56.58	53.00	44.67	68.20	-23.53	peak
2	8291.578	11.74	37.88	55.64	51.43	45.41	74.00	-28.59	peak
3	8832.090	12.24	38.50	55.15	50.96	46.55	68.20	-21.65	peak
4	10640.000	13.77	39.34	53.72	46.67	46.06	74.00	-27.94	peak
5	15960.000	17.20	38.64	54.01	43.97	45.80	74.00	-28.20	peak
6	pp16864.040	17.92	39.60	54.26	44.62	47.88	68.20	-20.32	peak

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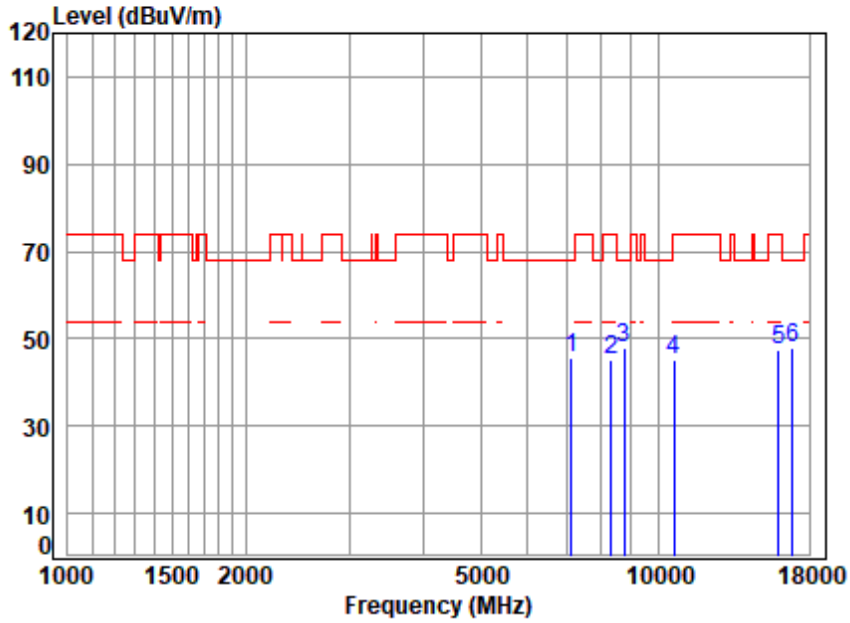
Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5320 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7131.289	11.84	36.46	56.59	53.76	45.47	68.20	-22.73	peak
2	8325.429	11.73	38.31	55.61	50.86	45.29	74.00	-28.71	peak
3 pp	8769.341	12.20	38.50	55.21	52.38	47.87	68.20	-20.33	peak
4	10640.000	13.77	39.34	53.72	45.86	45.25	74.00	-28.75	peak
5	15960.000	17.20	38.64	54.01	45.50	47.33	74.00	-26.67	peak
6	16898.430	18.17	39.60	54.27	44.28	47.78	68.20	-20.42	peak

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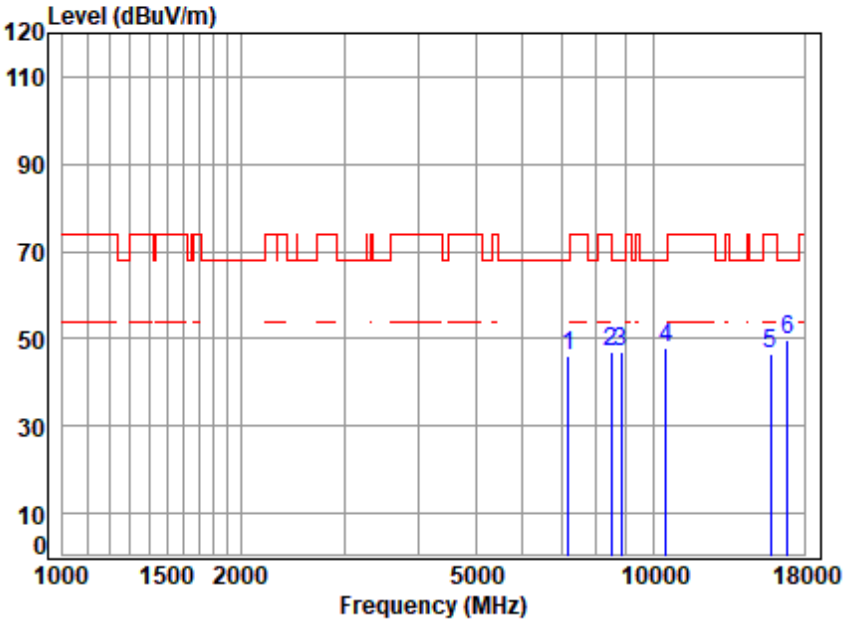
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5260 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7175.005	11.64	36.55	56.56	54.35	45.98	68.20	-22.22	peak
2	8496.769	12.29	38.31	55.45	51.63	46.78	74.00	-27.22	peak
3	8823.098	12.24	38.50	55.16	51.62	47.20	68.20	-21.00	peak
4	10520.000	13.63	39.14	53.79	48.91	47.89	68.20	-20.31	peak
5	15780.000	17.08	38.52	54.07	45.22	46.75	74.00	-27.25	peak
6	pp16881.220	18.04	39.60	54.26	46.18	49.56	68.20	-18.64	peak

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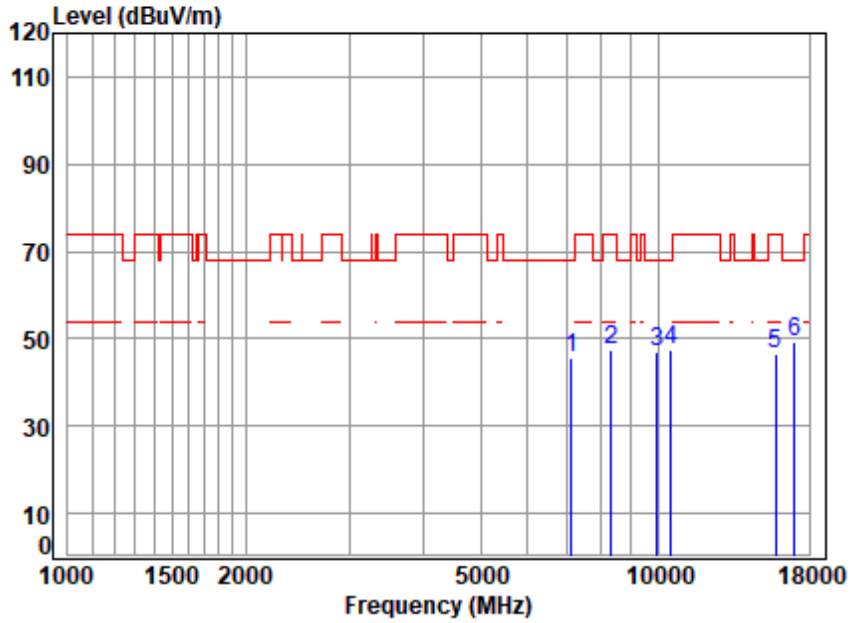

Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5260 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7131.289	11.84	36.46	56.59	53.76	45.47	68.20	-22.73	peak
2	8325.429	11.73	38.31	55.61	52.98	47.41	74.00	-26.59	peak
3	9939.788	12.88	38.90	54.15	49.58	47.21	68.20	-20.99	peak
4	10520.000	13.63	39.14	53.79	48.61	47.59	68.20	-20.61	peak
5	15780.000	17.08	38.52	54.07	44.79	46.32	74.00	-27.68	peak
6	pp16984.710	18.09	39.68	54.30	45.59	49.06	68.20	-19.14	peak

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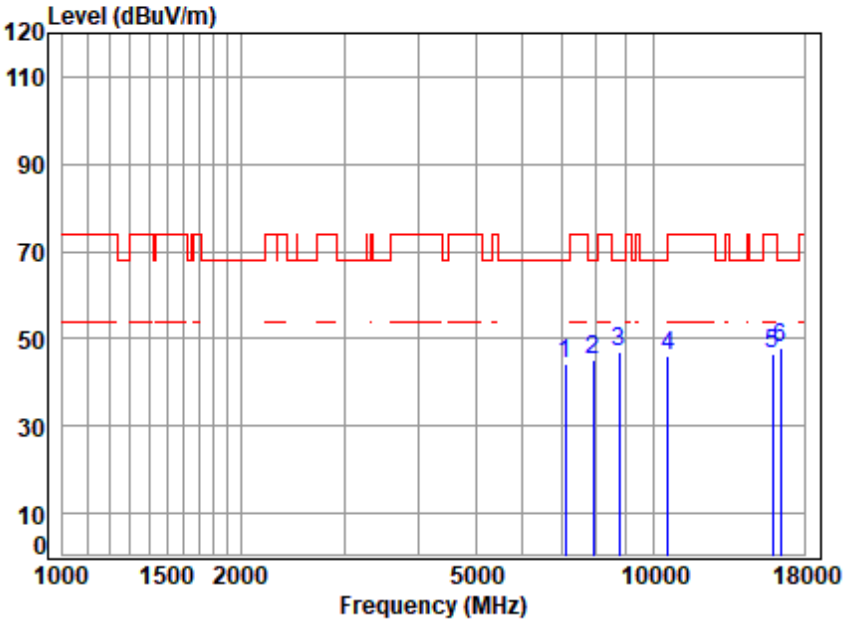
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5300 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7095.063	11.96	36.39	56.62	52.42	44.15	68.20	-24.05	peak
2	7903.989	11.54	37.61	55.98	52.14	45.31	68.20	-22.89	peak
3	8742.585	12.16	38.51	55.23	51.47	46.91	68.20	-21.29	peak
4	10600.000	13.59	39.30	53.74	47.05	46.20	68.20	-22.00	peak
5	15900.000	17.28	38.70	54.03	44.38	46.33	74.00	-27.67	peak
6	pp16406.570	17.20	38.81	54.12	45.96	47.85	68.20	-20.35	peak

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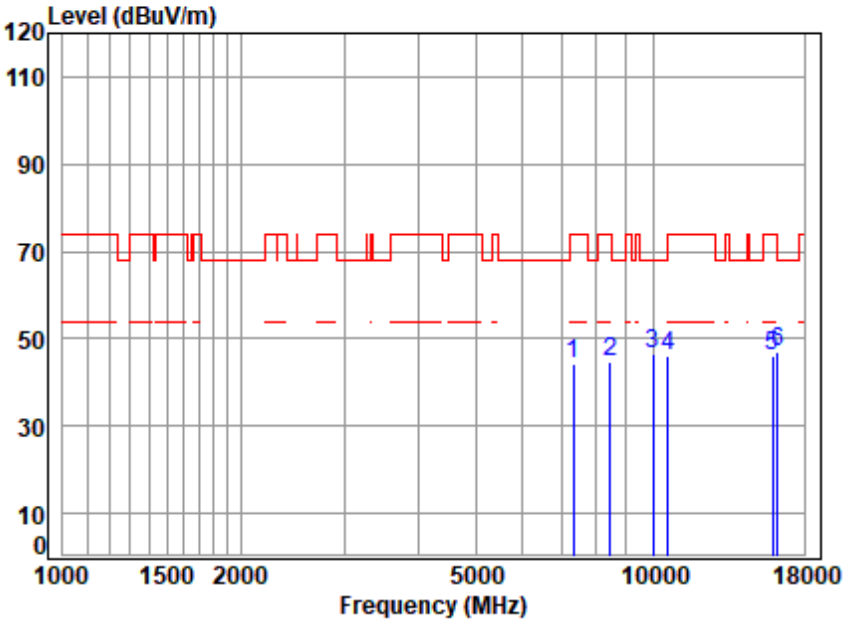
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5300 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7330.131	11.51	36.76	56.44	52.50	44.33	74.00	-29.67	peak
2	8445.000	11.94	38.42	55.50	49.87	44.73	74.00	-29.27	peak
3	10000.720	13.01	38.90	54.10	48.58	46.39	68.20	-21.81	peak
4	10600.000	13.59	39.30	53.74	46.86	46.01	68.20	-22.19	peak
5	15900.000	17.28	38.70	54.03	44.05	46.00	74.00	-28.00	peak
6	pp16256.860	17.21	38.56	54.08	45.47	47.16	68.20	-21.04	peak

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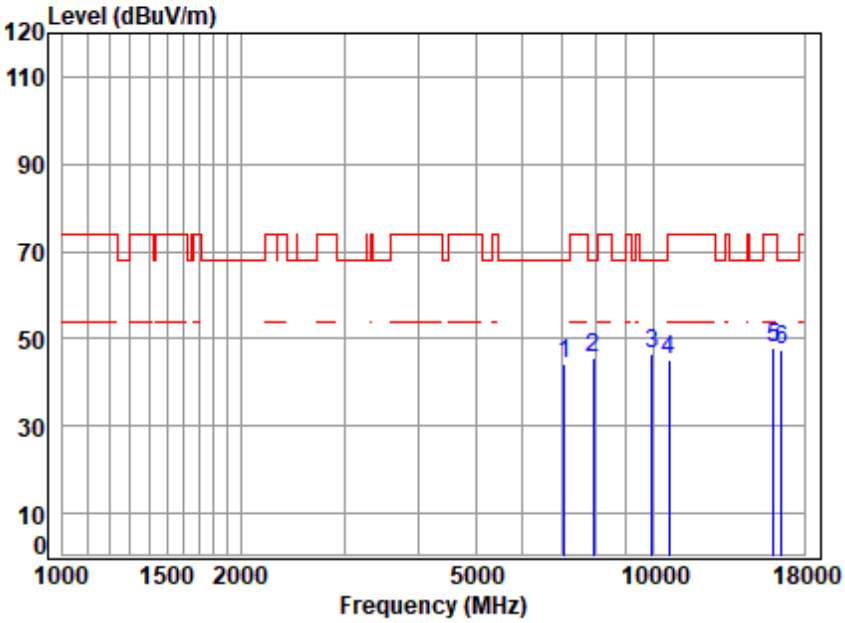
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5320 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7073.416	11.83	36.35	56.64	52.63	44.17	68.20	-24.03	peak
2	7928.178	11.55	37.66	55.96	52.29	45.54	68.20	-22.66	peak
3	9949.918	12.90	38.90	54.15	48.90	46.55	68.20	-21.65	peak
4	10640.000	13.77	39.34	53.72	45.96	45.35	74.00	-28.65	peak
5	15960.000	17.20	38.64	54.01	46.23	48.06	74.00	-25.94	peak
6	pp16456.780	17.49	38.86	54.14	45.32	47.53	68.20	-20.67	peak

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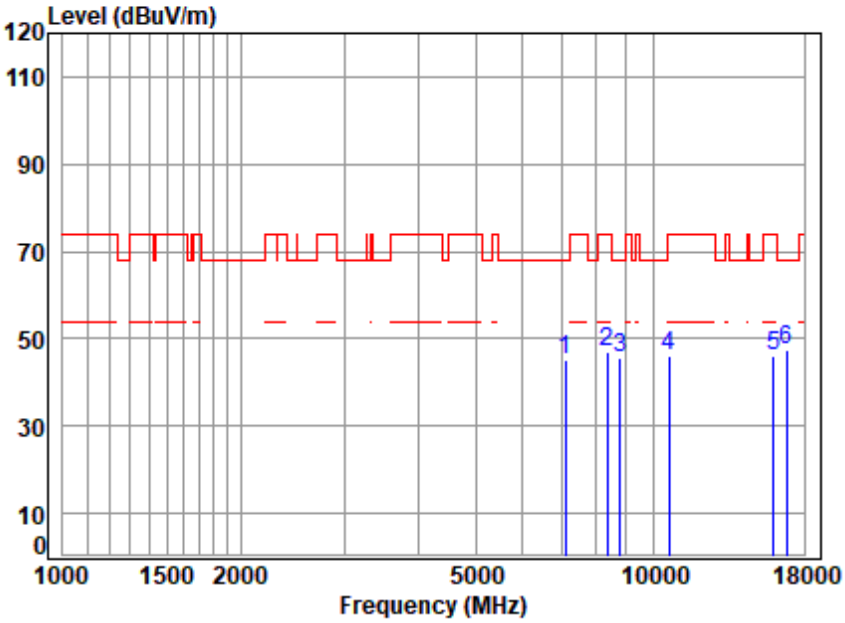
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5320 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7095.063	11.96	36.39	56.62	53.28	45.01	68.20	-23.19	peak
2	8359.419	11.68	38.68	55.58	52.13	46.91	74.00	-27.09	peak
3	8796.179	12.24	38.50	55.18	49.90	45.46	68.20	-22.74	peak
4	10640.000	13.77	39.34	53.72	46.67	46.06	74.00	-27.94	peak
5	15960.000	17.20	38.64	54.01	44.27	46.10	74.00	-27.90	peak
6	pp16829.720	17.67	39.60	54.25	44.46	47.48	68.20	-20.72	peak

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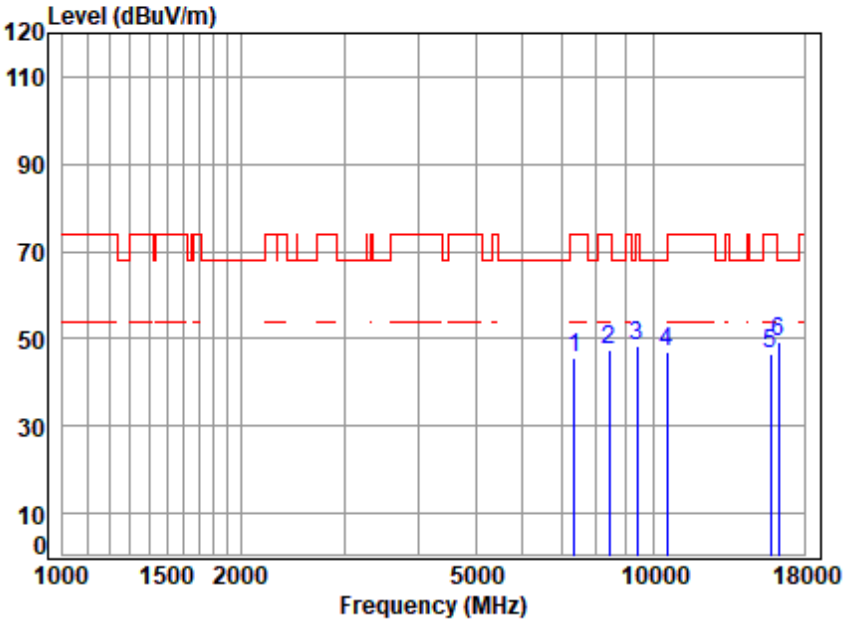
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5270 TX RSE
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7337.601	11.51	36.78	56.43	53.96	45.82	74.00	-28.18	peak
2	8427.813	11.82	38.49	55.51	52.52	47.32	74.00	-26.68	peak
3	9388.690	12.29	38.80	54.65	51.76	48.20	74.00	-25.80	peak
4	10540.000	13.62	39.18	53.78	48.20	47.22	68.20	-20.98	peak
5	15810.000	17.06	38.52	54.06	45.14	46.66	74.00	-27.34	peak
6	pp16290.010	17.22	38.59	54.09	47.49	49.21	68.20	-18.99	peak

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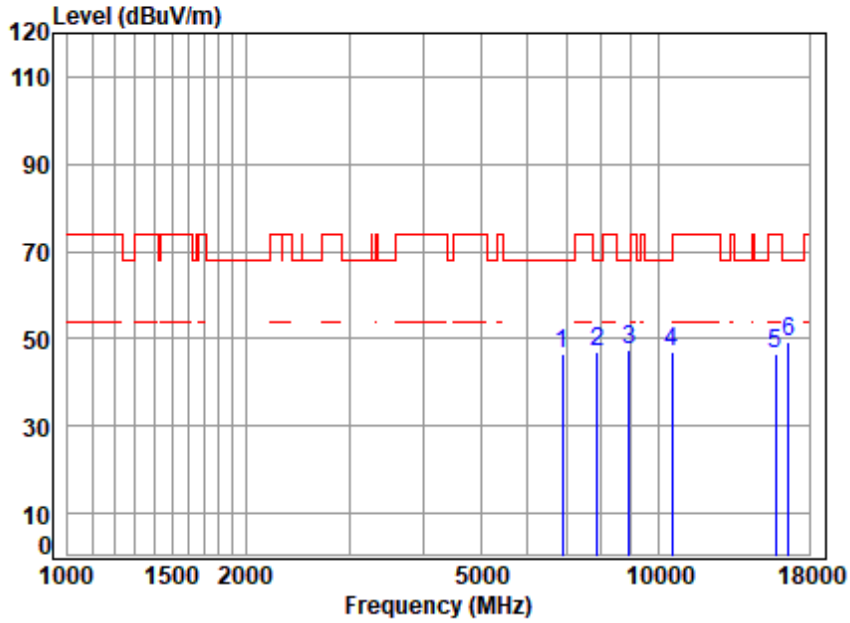
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5270 TX RSE
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6881.537	11.37	36.13	56.72	55.97	46.75	68.20	-21.45	peak
2	7887.904	11.51	37.55	55.99	54.11	47.18	68.20	-21.02	peak
3	8940.705	12.19	38.52	55.05	51.77	47.43	68.20	-20.77	peak
4	10540.000	13.62	39.18	53.78	47.99	47.01	68.20	-21.19	peak
5	15810.000	17.06	38.52	54.06	45.20	46.72	74.00	-27.28	peak
6	pp16608.340	17.64	39.22	54.18	46.60	49.28	68.20	-18.92	peak

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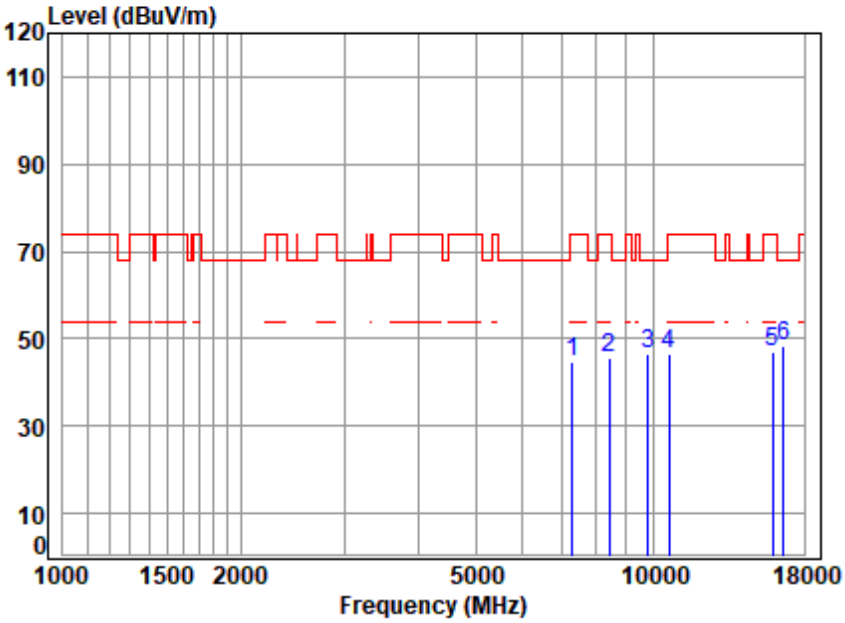
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5310 TX RSE
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7285.470	11.51	36.67	56.47	53.21	44.92	74.00	-29.08	peak
2	8419.234	11.76	38.52	55.52	50.89	45.65	74.00	-28.35	peak
3	9799.053	13.09	38.60	54.28	49.34	46.75	68.20	-21.45	peak
4	10620.000	13.68	39.32	53.73	47.23	46.50	74.00	-27.50	peak
5	15930.000	17.24	38.67	54.02	45.22	47.11	74.00	-26.89	peak
6	pp16625.260	17.63	39.25	54.19	45.45	48.14	68.20	-20.06	peak

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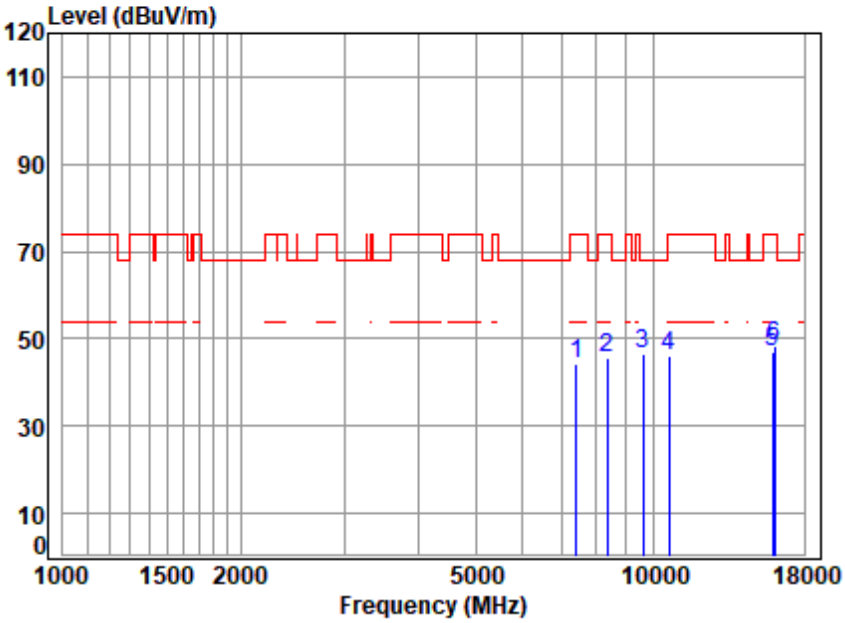

Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5310 TX RSE
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7397.636	11.50	36.70	56.38	52.63	44.45	74.00	-29.55	peak
2	8350.908	11.69	38.70	55.58	50.91	45.72	74.00	-28.28	peak
3 pp	9591.677	12.44	38.80	54.47	49.72	46.49	68.20	-21.71	peak
4	10620.000	13.68	39.32	53.73	46.81	46.08	74.00	-27.92	peak
5	15930.000	17.24	38.67	54.02	44.98	46.87	74.00	-27.13	peak
6	16043.010	17.12	38.56	54.01	46.60	48.27	74.00	-25.73	peak

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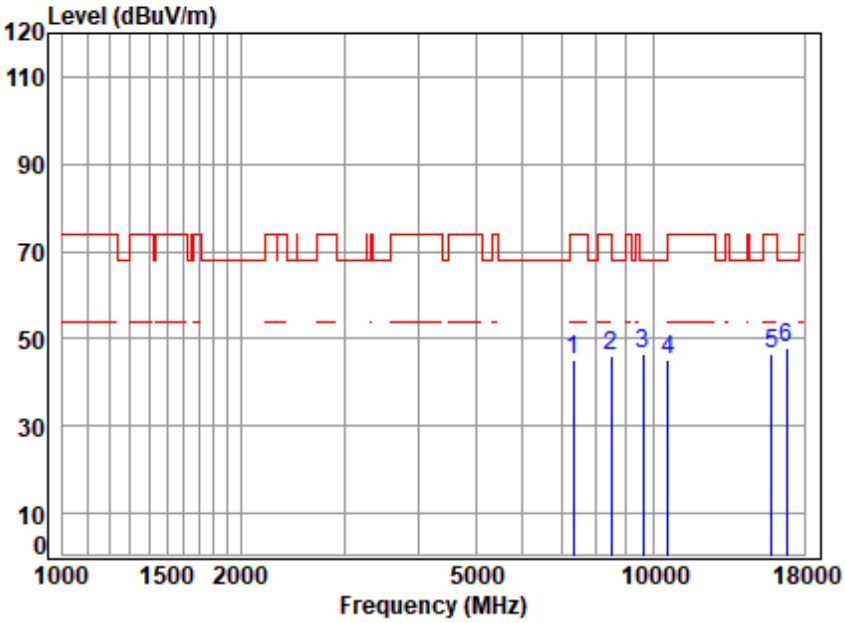
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5290 TX RSE
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7315.214	11.51	36.73	56.45	53.24	45.03	74.00	-28.97	peak
2	8496.769	12.29	38.31	55.45	50.98	46.13	74.00	-27.87	peak
3	9591.677	12.44	38.80	54.47	49.93	46.70	68.20	-21.50	peak
4	10580.000	13.60	39.26	53.75	45.90	45.01	68.20	-23.19	peak
5	15870.000	17.20	38.64	54.04	44.81	46.61	74.00	-27.39	peak
6	pp16778.370	17.49	39.56	54.23	45.24	48.06	68.20	-20.14	peak

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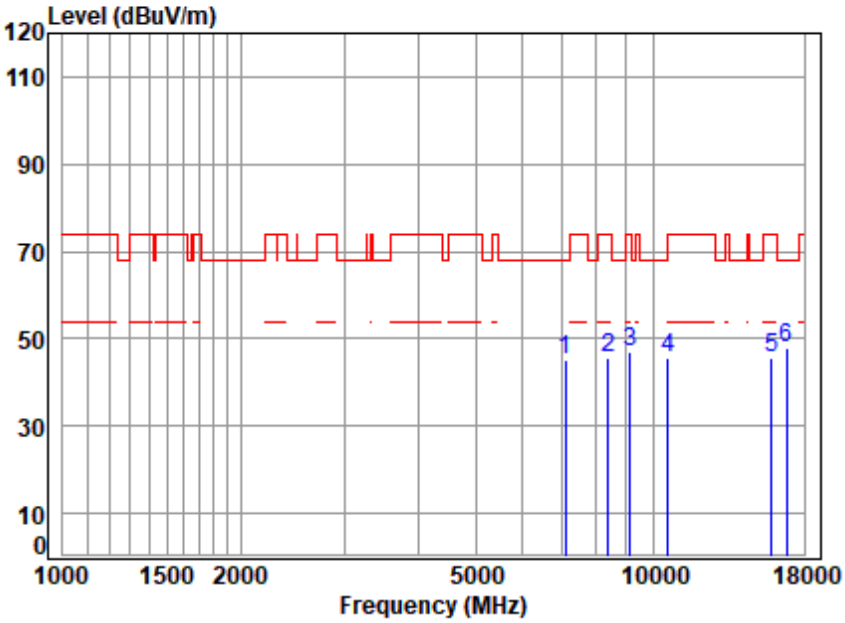
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5290 TX RSE
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7095.063	11.96	36.39	56.62	53.40	45.13	68.20	-23.07	peak
2	8385.002	11.65	38.63	55.55	50.95	45.68	74.00	-28.32	peak
3	9143.314	12.21	38.69	54.87	51.12	47.15	74.00	-26.85	peak
4	10580.000	13.60	39.26	53.75	46.48	45.59	68.20	-22.61	peak
5	15870.000	17.20	38.64	54.04	43.94	45.74	74.00	-28.26	peak
6	pp16795.470	17.47	39.59	54.24	45.31	48.13	68.20	-20.07	peak

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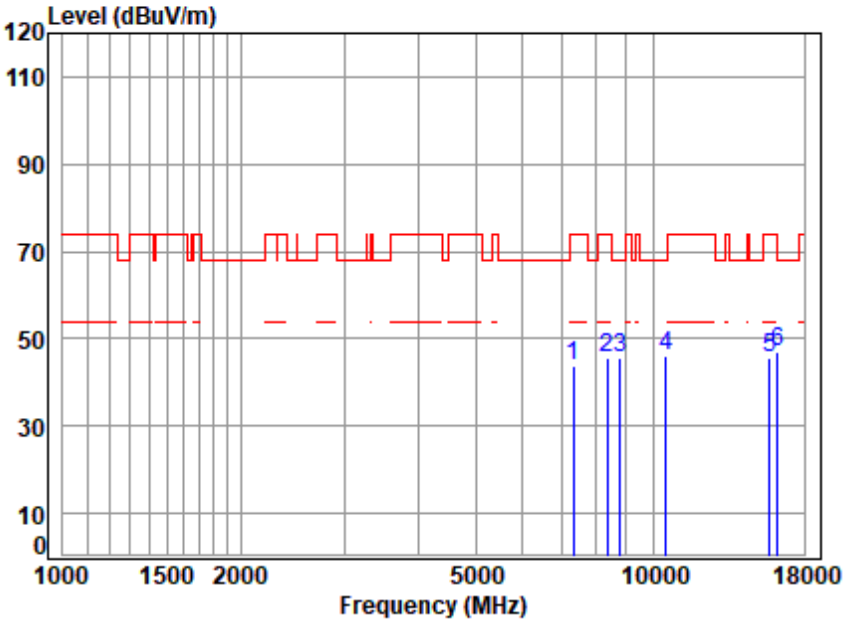
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5250 TX RSE
: 5GWIFI 11AC160

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7315.214	11.51	36.73	56.45	52.20	43.99	74.00	-30.01	peak
2	8359.419	11.68	38.68	55.58	50.90	45.68	74.00	-28.32	peak
3	8778.277	12.22	38.50	55.20	50.27	45.79	68.20	-22.41	peak
4	10500.000	13.64	39.10	53.80	46.98	45.92	68.20	-22.28	peak
5	15750.000	17.15	38.55	54.08	43.81	45.43	74.00	-28.57	peak
6	pp16240.310	17.21	38.54	54.07	45.46	47.14	68.20	-21.06	peak

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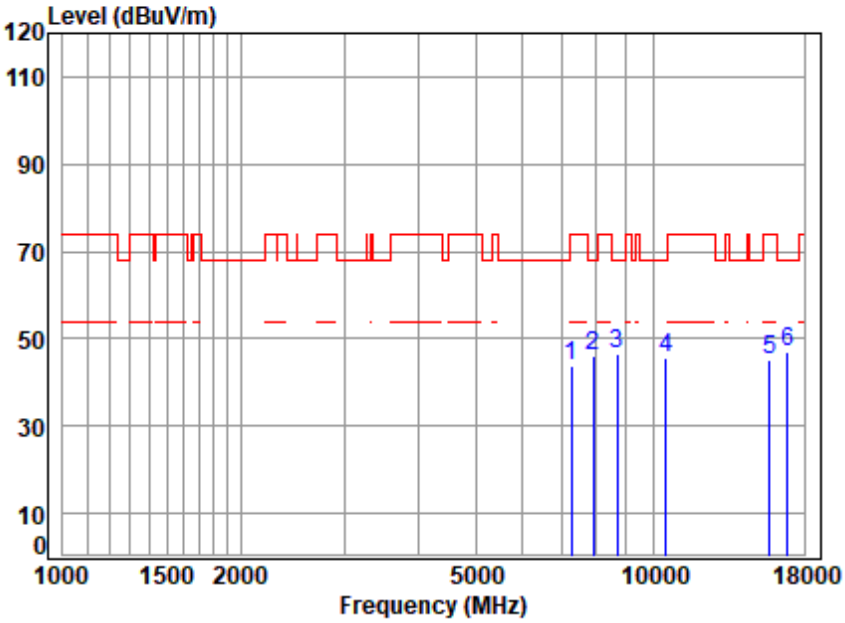
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5250 TX RSE
: 5GWIFI 11AC160

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7270.644	11.51	36.64	56.48	52.24	43.91	74.00	-30.09	peak
2	7928.178	11.55	37.66	55.96	52.61	45.86	68.20	-22.34	peak
3	8698.174	12.09	38.59	55.27	50.92	46.33	68.20	-21.87	peak
4	10500.000	13.64	39.10	53.80	46.77	45.71	68.20	-22.49	peak
5	15750.000	17.15	38.55	54.08	43.38	45.00	74.00	-29.00	peak
6	pp16864.040	17.92	39.60	54.26	43.84	47.10	68.20	-21.10	peak

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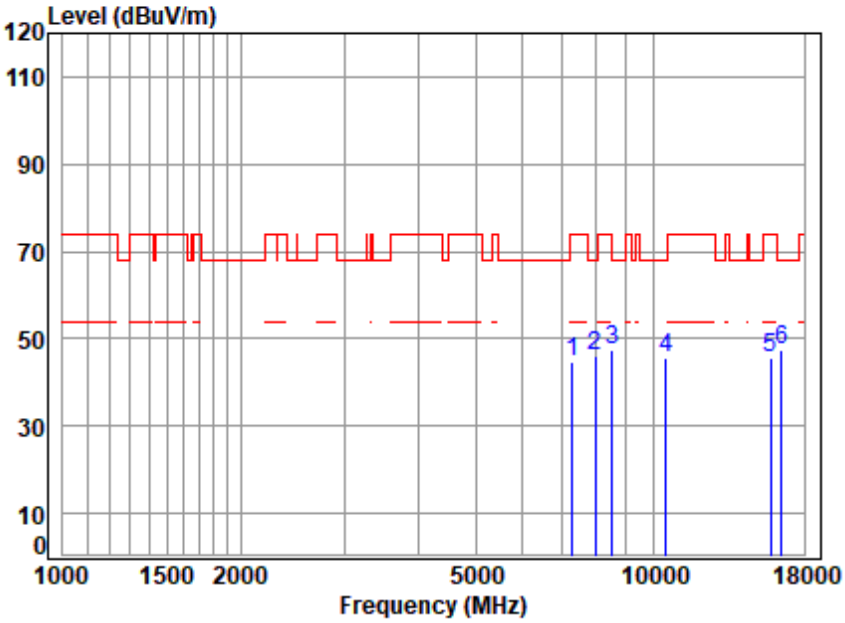
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5260 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7285.470	11.51	36.67	56.47	52.89	44.60	74.00	-29.40	peak
2	7984.908	11.56	37.77	55.91	52.54	45.96	68.20	-22.24	peak
3	8522.772	12.23	38.30	55.43	52.31	47.41	68.20	-20.79	peak
4	10520.000	13.63	39.14	53.79	46.86	45.84	68.20	-22.36	peak
5	15780.000	17.08	38.52	54.07	44.05	45.58	74.00	-28.42	peak
6	pp16490.340	17.68	38.89	54.15	45.22	47.64	68.20	-20.56	peak

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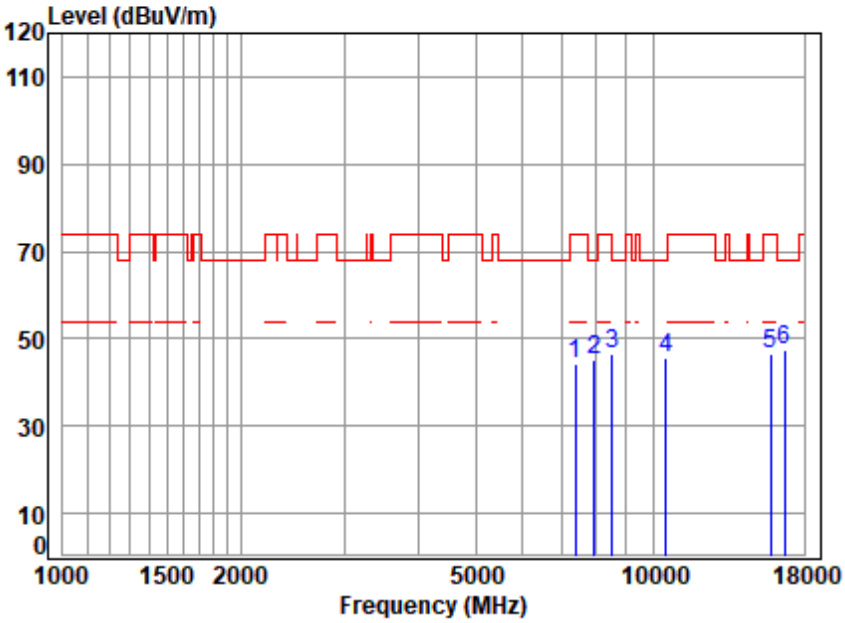
Test Mode: 15; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5260 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7375.065	11.50	36.75	56.40	52.30	44.15	74.00	-29.85	peak
2	7936.257	11.55	37.67	55.95	52.06	45.33	68.20	-22.87	peak
3	8522.772	12.23	38.30	55.43	51.36	46.46	68.20	-21.74	peak
4	10520.000	13.63	39.14	53.79	46.73	45.71	68.20	-22.49	peak
5	15780.000	17.08	38.52	54.07	44.81	46.34	74.00	-27.66	peak
6	pp16710.150	17.58	39.42	54.21	44.66	47.45	68.20	-20.75	peak

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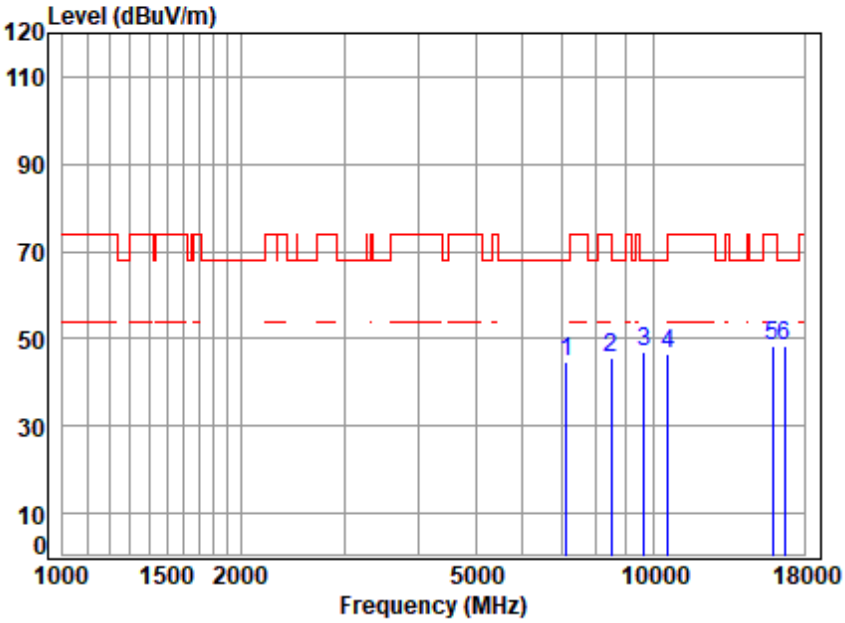
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5300 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7131.289	11.84	36.46	56.59	52.83	44.54	68.20	-23.66	peak
2	8496.769	12.29	38.31	55.45	50.34	45.49	74.00	-28.51	peak
3	9660.310	12.59	38.70	54.41	49.95	46.83	68.20	-21.37	peak
4	10600.000	13.59	39.30	53.74	47.53	46.68	68.20	-21.52	peak
5	15900.000	17.28	38.70	54.03	46.26	48.21	74.00	-25.79	peak
6	pp16710.150	17.58	39.42	54.21	45.52	48.31	68.20	-19.89	peak

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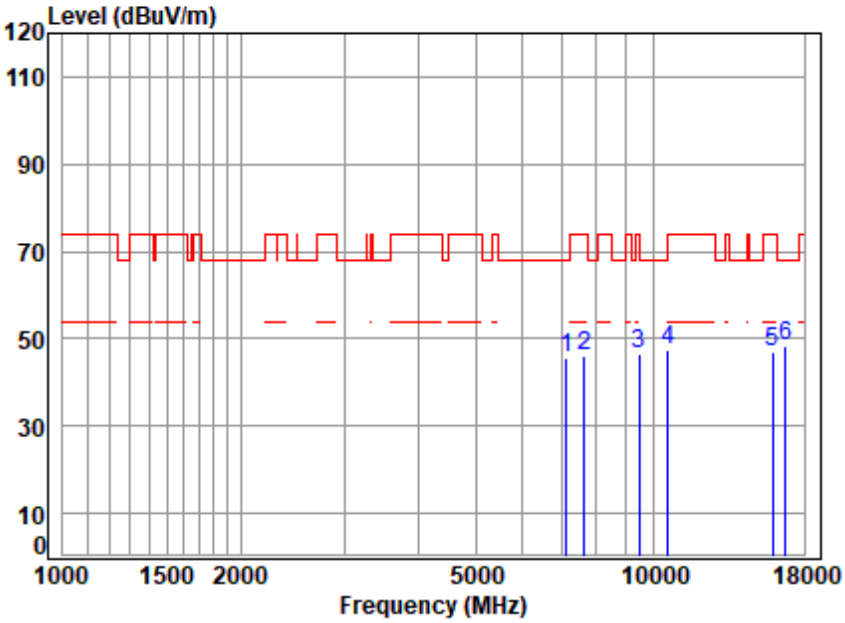
Test Mode: 15; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5300 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7124.029	11.88	36.45	56.60	53.94	45.67	68.20	-22.53	peak
2	7634.948	11.22	36.87	56.19	54.18	46.08	74.00	-27.92	peak
3	9446.244	12.42	38.80	54.60	50.01	46.63	74.00	-27.37	peak
4	10600.000	13.59	39.30	53.74	48.14	47.29	68.20	-20.91	peak
5	15900.000	17.28	38.70	54.03	44.88	46.83	74.00	-27.17	peak
6	pp16761.290	17.51	39.52	54.23	45.52	48.32	68.20	-19.88	peak

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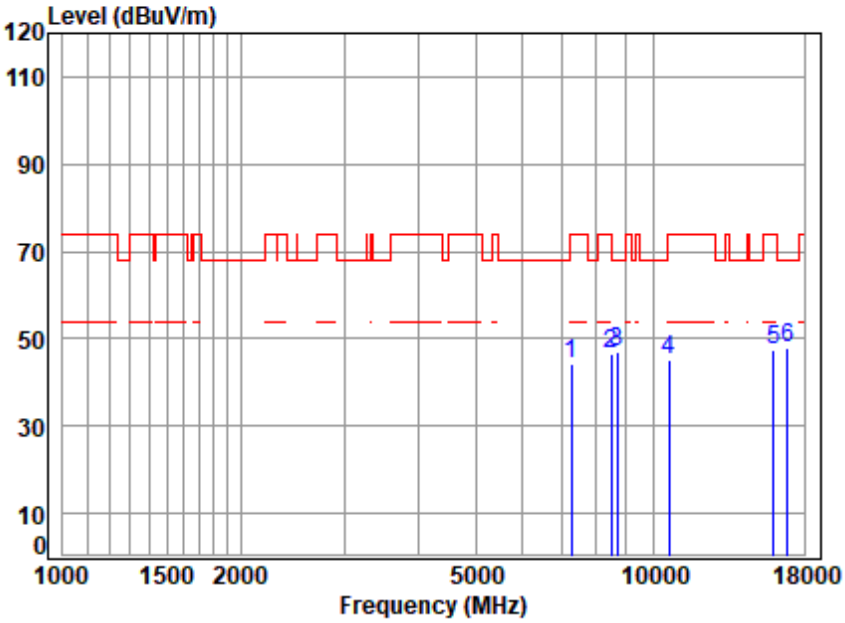
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5320 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7255.848	11.51	36.61	56.50	52.77	44.39	74.00	-29.61	peak
2	8496.769	12.29	38.31	55.45	51.55	46.70	74.00	-27.30	peak
3	8689.318	12.08	38.56	55.28	51.86	47.22	68.20	-20.98	peak
4	10640.000	13.77	39.34	53.72	45.91	45.30	74.00	-28.70	peak
5	15960.000	17.20	38.64	54.01	45.43	47.26	74.00	-26.74	peak
6	pp16846.870	17.80	39.60	54.25	44.93	48.08	68.20	-20.12	peak

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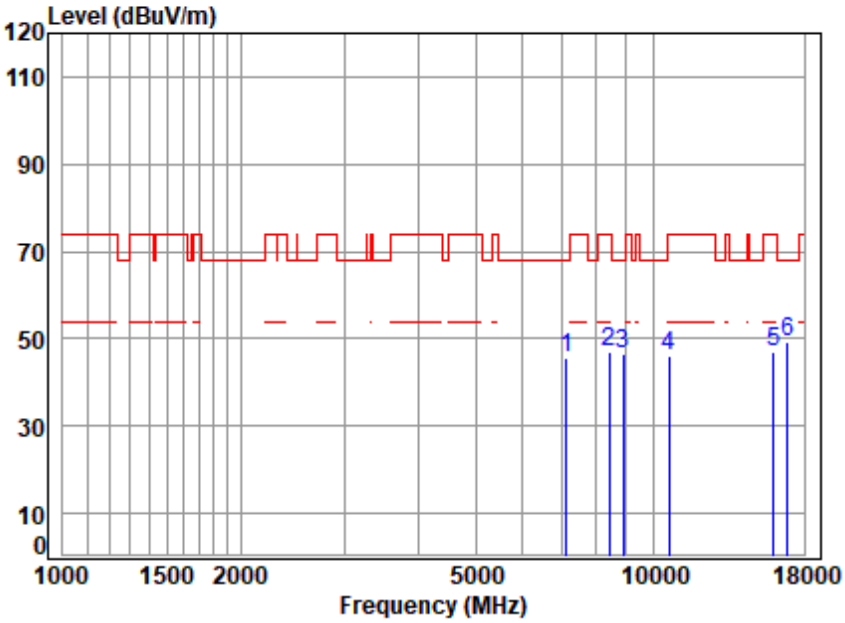
Test Mode: 15; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5320 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7124.029	11.88	36.45	56.60	53.77	45.50	68.20	-22.70	peak
2	8410.663	11.70	38.56	55.53	52.06	46.79	74.00	-27.21	peak
3	8895.287	12.22	38.59	55.09	50.84	46.56	68.20	-21.64	peak
4	10640.000	13.77	39.34	53.72	46.54	45.93	74.00	-28.07	peak
5	15960.000	17.20	38.64	54.01	45.03	46.86	74.00	-27.14	peak
6	pp16864.040	17.92	39.60	54.26	46.25	49.51	68.20	-18.69	peak

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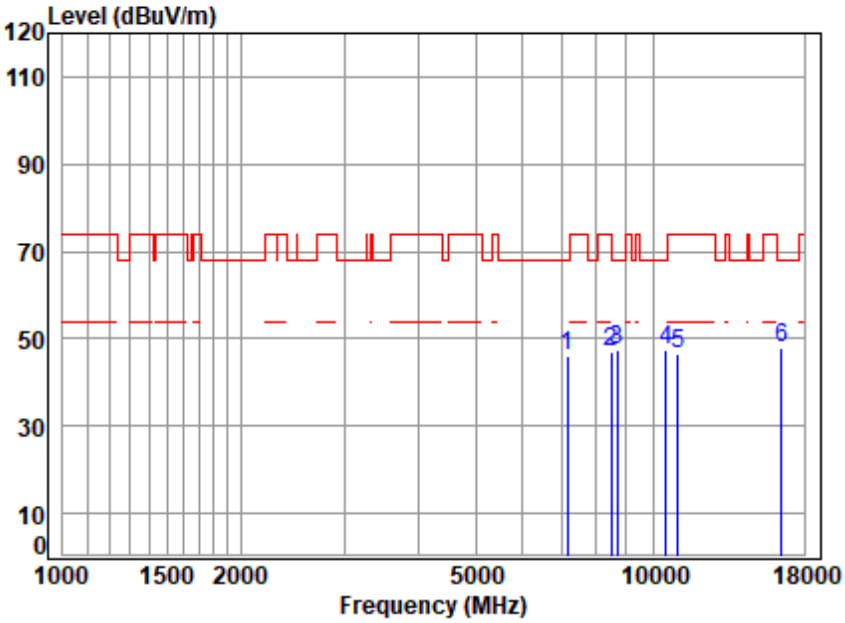
Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5500 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7153.113	11.74	36.51	56.58	54.27	45.94	68.20	-22.26	peak
2	8488.119	12.23	38.32	55.46	52.02	47.11	74.00	-26.89	peak
3	8698.174	12.09	38.59	55.27	52.20	47.61	68.20	-20.59	peak
4	10501.820	13.64	39.10	53.80	48.47	47.41	68.20	-20.79	peak
5	11000.000	14.17	39.40	53.50	46.52	46.59	74.00	-27.41	peak
6	pp16500.000	17.74	38.90	54.15	45.33	47.82	68.20	-20.38	peak

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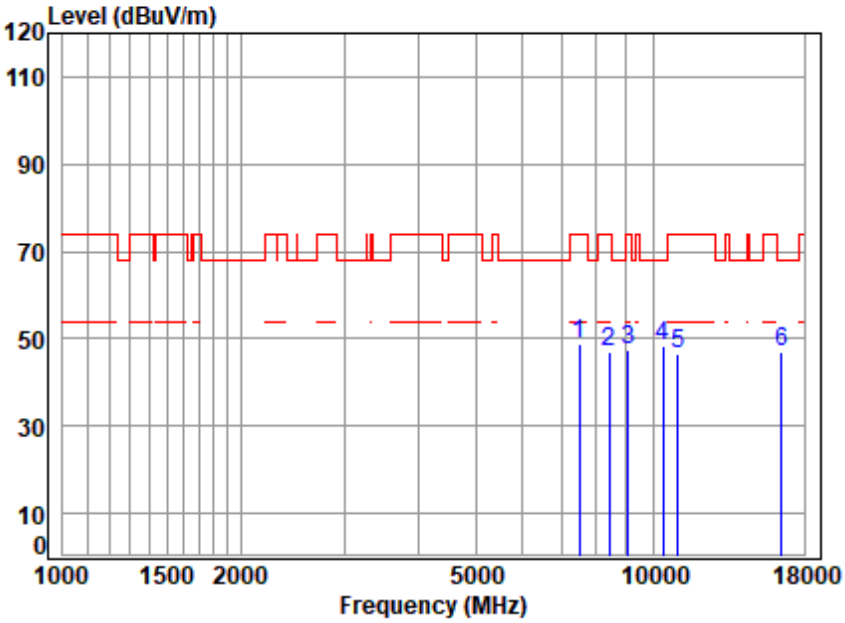
Member of the SGS Group (SGS SA)

Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5500 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7488.611	11.26	36.80	56.31	56.87	48.62	74.00	-25.38	peak
2	8427.813	11.82	38.49	55.51	52.04	46.84	74.00	-27.16	peak
3	9050.656	12.13	38.60	54.95	51.72	47.50	74.00	-26.50	peak
4	pp10395.390	13.62	39.00	53.86	49.64	48.40	68.20	-19.80	peak
5	11000.000	14.17	39.40	53.50	46.30	46.37	74.00	-27.63	peak
6	16500.000	17.74	38.90	54.15	44.60	47.09	68.20	-21.11	peak

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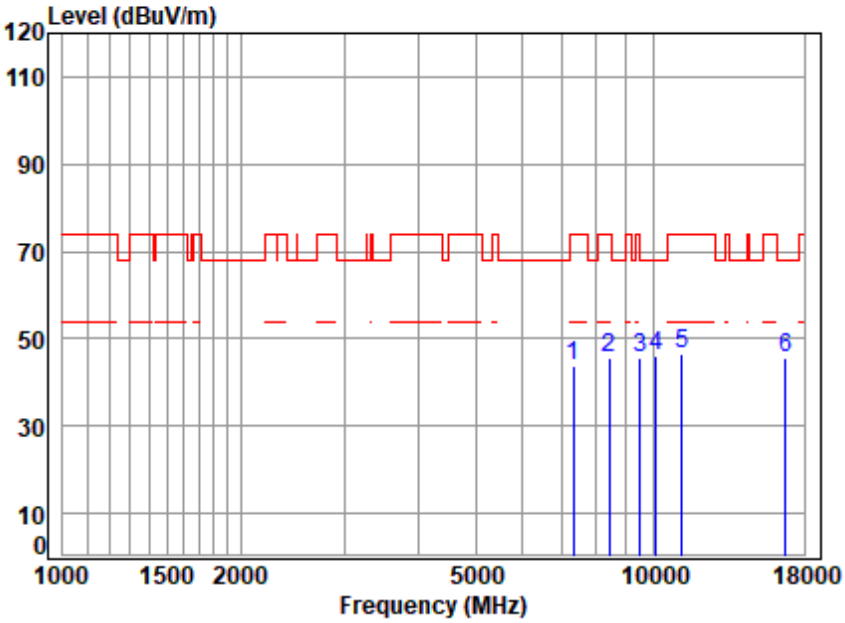
Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5580 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7330.131	11.51	36.76	56.44	52.07	43.90	74.00	-30.10	peak
2	8410.663	11.70	38.56	55.53	50.91	45.64	74.00	-28.36	peak
3	9504.150	12.55	38.89	54.55	48.92	45.81	68.20	-22.39	peak
4	pp10113.400	13.25	39.10	54.03	47.66	45.98	68.20	-22.22	peak
5	11160.000	14.72	39.56	53.55	45.67	46.40	74.00	-27.60	peak
6	16740.000	17.54	39.48	54.22	42.96	45.76	68.20	-22.44	peak

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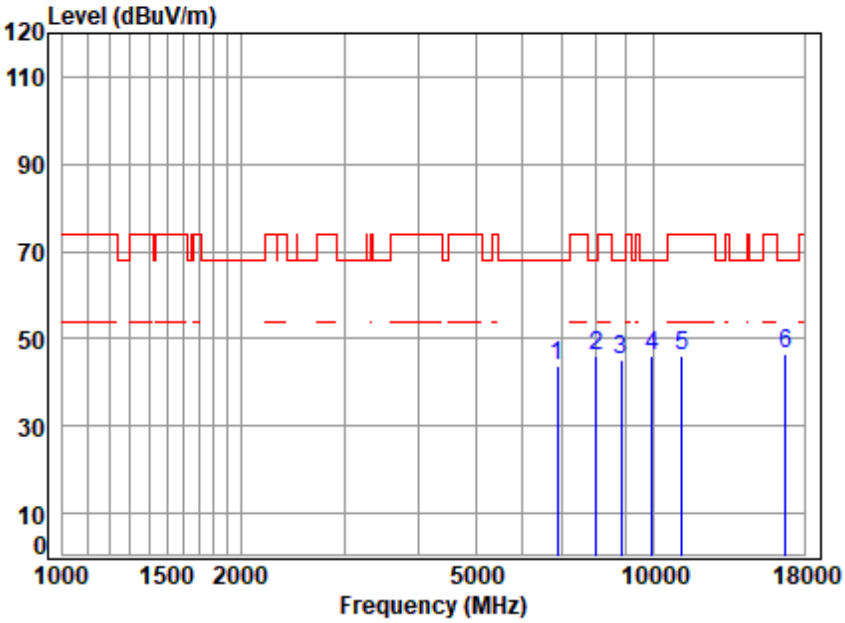
Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5580 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6867.533	11.37	36.07	56.73	53.28	43.99	68.20	-24.21	peak
2	8009.345	11.55	37.80	55.89	52.56	46.02	68.20	-22.18	peak
3	8814.115	12.25	38.50	55.17	49.60	45.18	68.20	-23.02	peak
4	9949.918	12.90	38.90	54.15	48.45	46.10	68.20	-22.10	peak
5	11160.000	14.72	39.56	53.55	45.21	45.94	74.00	-28.06	peak
6	pp16740.000	17.54	39.48	54.22	43.69	46.49	68.20	-21.71	peak

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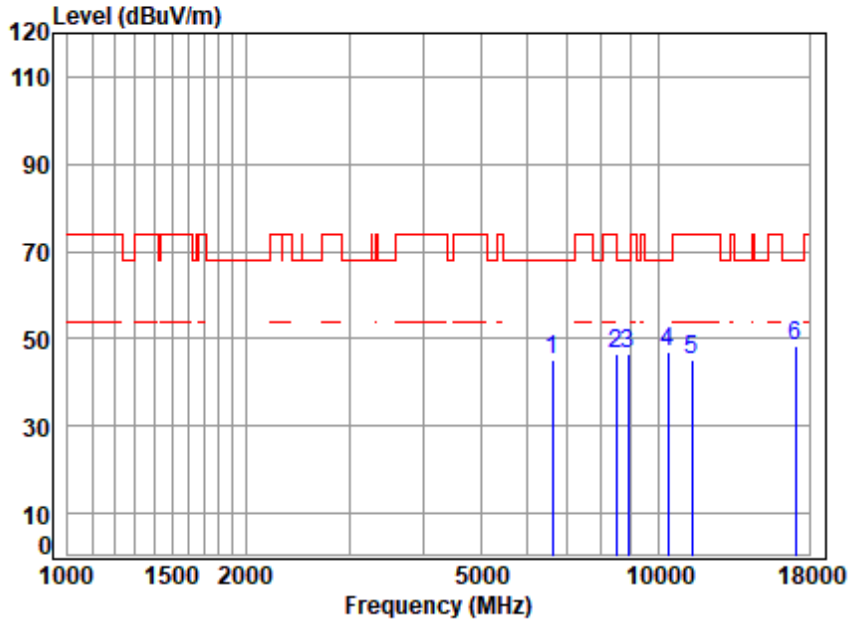
Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5700 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6627.019	11.55	35.36	56.77	55.12	45.26	68.20	-22.94	peak
2	8479.478	12.17	38.34	55.47	51.30	46.34	74.00	-27.66	peak
3	8895.287	12.22	38.59	55.09	50.92	46.64	68.20	-21.56	peak
4	10384.810	13.61	39.00	53.87	48.45	47.19	68.20	-21.01	peak
5	11400.000	14.21	39.70	53.62	44.97	45.26	74.00	-28.74	peak
6	pp17100.000	18.47	39.80	54.32	44.52	48.47	68.20	-19.73	peak

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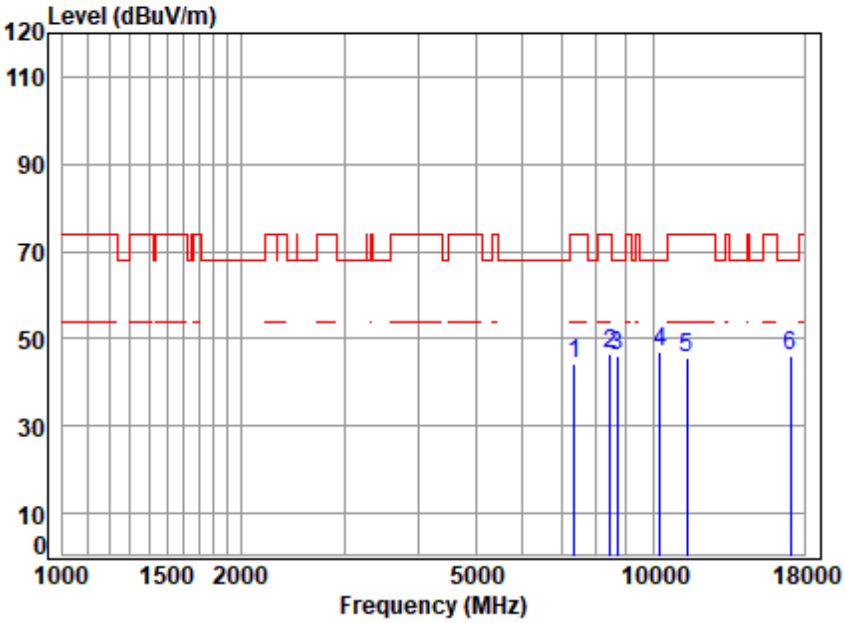
Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5700 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7337.601	11.51	36.78	56.43	52.52	44.38	74.00	-29.62	peak
2	8453.606	11.99	38.39	55.49	51.77	46.66	74.00	-27.34	peak
3	8698.174	12.09	38.59	55.27	50.50	45.91	68.20	-22.29	peak
4	pp10269.110	13.43	39.03	53.94	48.65	47.17	68.20	-21.03	peak
5	11400.000	14.21	39.70	53.62	45.23	45.52	74.00	-28.48	peak
6	17100.000	18.47	39.80	54.32	42.32	46.27	68.20	-21.93	peak

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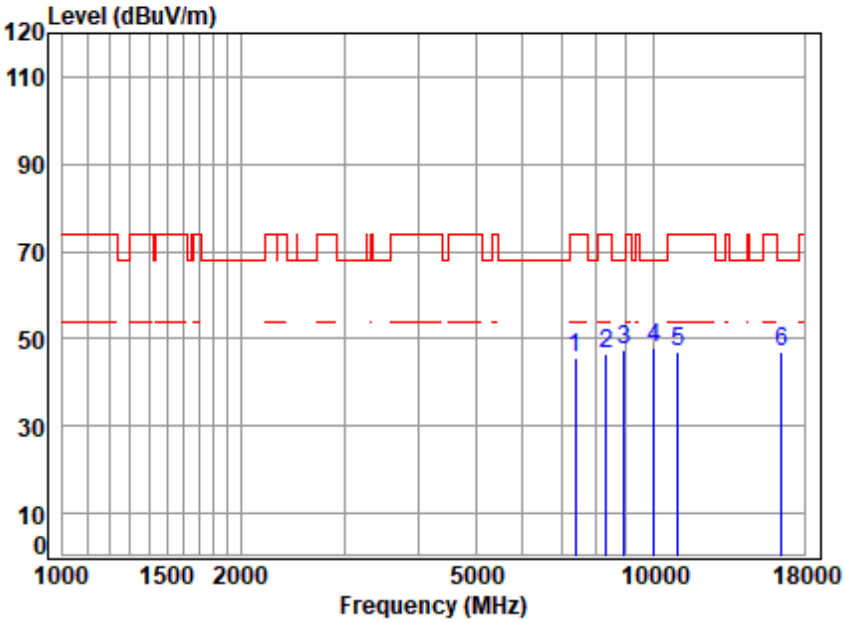
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5500 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7382.582	11.50	36.73	56.39	53.89	45.73	74.00	-28.27	peak
2	8316.953	11.74	38.17	55.61	52.09	46.39	74.00	-27.61	peak
3	8913.427	12.21	38.57	55.08	51.58	47.28	68.20	-20.92	peak
4	pp10021.110	13.06	38.94	54.09	50.00	47.91	68.20	-20.29	peak
5	11000.000	14.17	39.40	53.50	46.74	46.81	74.00	-27.19	peak
6	16500.000	17.74	38.90	54.15	44.45	46.94	68.20	-21.26	peak

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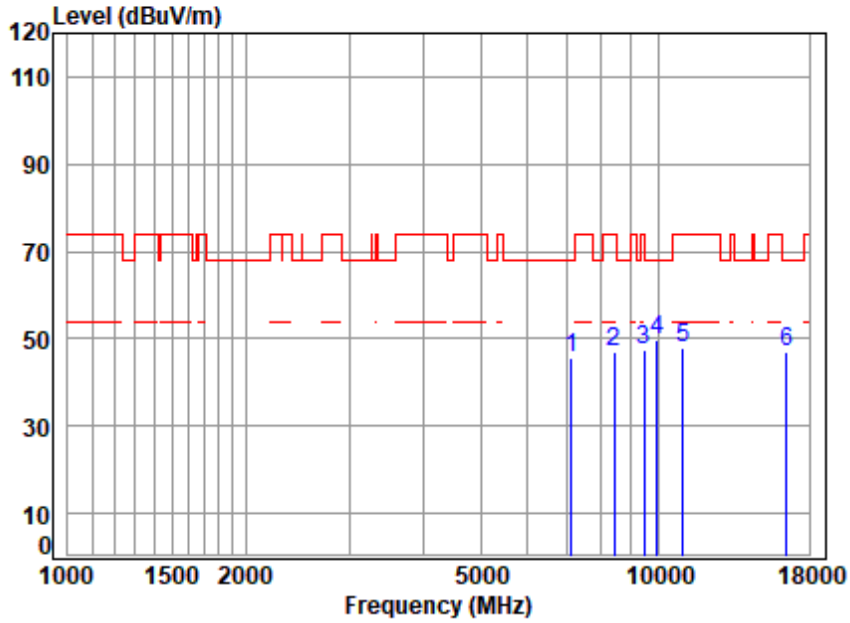
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5500 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7124.029	11.88	36.45	56.60	53.84	45.57	68.20	-22.63	peak
2	8419.234	11.76	38.52	55.52	52.38	47.14	74.00	-26.86	peak
3	9446.244	12.42	38.80	54.60	50.75	47.37	74.00	-26.63	peak
4 pp	9960.058	12.93	38.90	54.14	51.86	49.55	68.20	-18.65	peak
5	11000.000	14.17	39.40	53.50	47.93	48.00	74.00	-26.00	peak
6	16500.000	17.74	38.90	54.15	44.47	46.96	68.20	-21.24	peak

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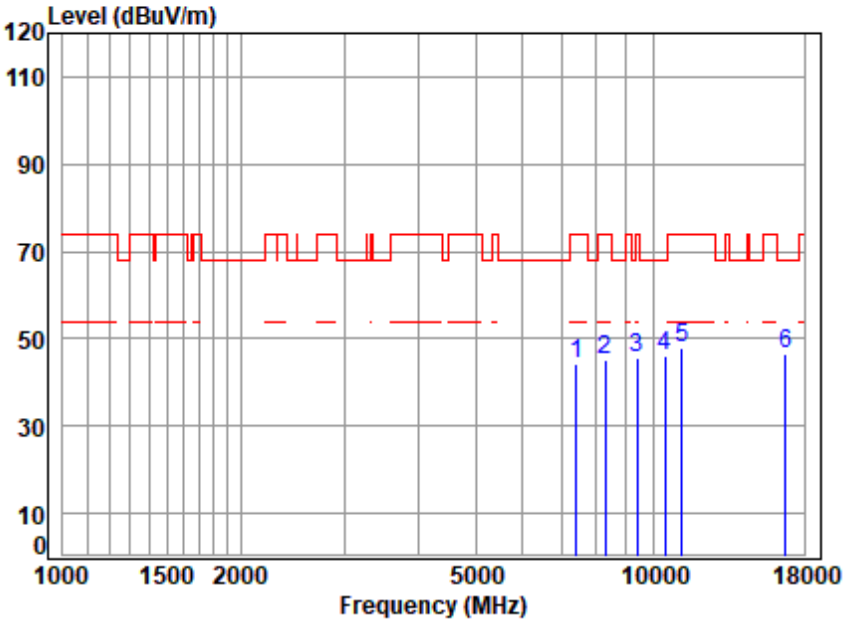
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5580 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7420.276	11.45	36.74	56.36	52.29	44.12	74.00	-29.88	peak
2	8283.137	11.73	37.87	55.65	51.31	45.26	74.00	-28.74	peak
3	9398.258	12.30	38.80	54.64	49.19	45.65	74.00	-28.35	peak
4	10459.120	13.63	39.06	53.82	47.27	46.14	68.20	-22.06	peak
5	11160.000	14.72	39.56	53.55	47.00	47.73	74.00	-26.27	peak
6	pp16740.000	17.54	39.48	54.22	43.85	46.65	68.20	-21.55	peak

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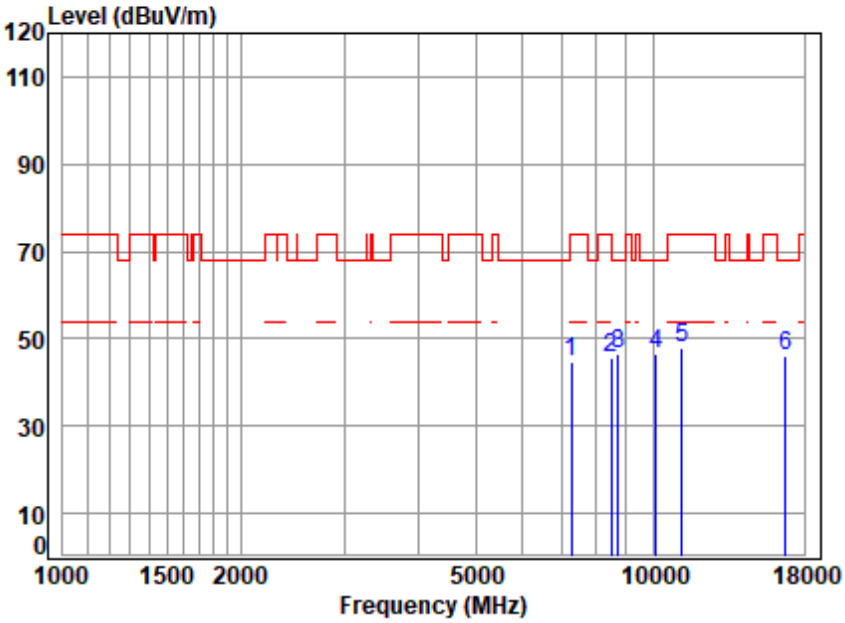
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5580 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7255.848	11.51	36.61	56.50	53.09	44.71	74.00	-29.29	peak
2	8496.769	12.29	38.31	55.45	50.30	45.45	74.00	-28.55	peak
3	8733.685	12.14	38.53	55.24	50.94	46.37	68.20	-21.83	peak
4	pp10103.110	13.26	39.10	54.04	48.19	46.51	68.20	-21.69	peak
5	11160.000	14.72	39.56	53.55	47.23	47.96	74.00	-26.04	peak
6	16740.000	17.54	39.48	54.22	43.09	45.89	68.20	-22.31	peak

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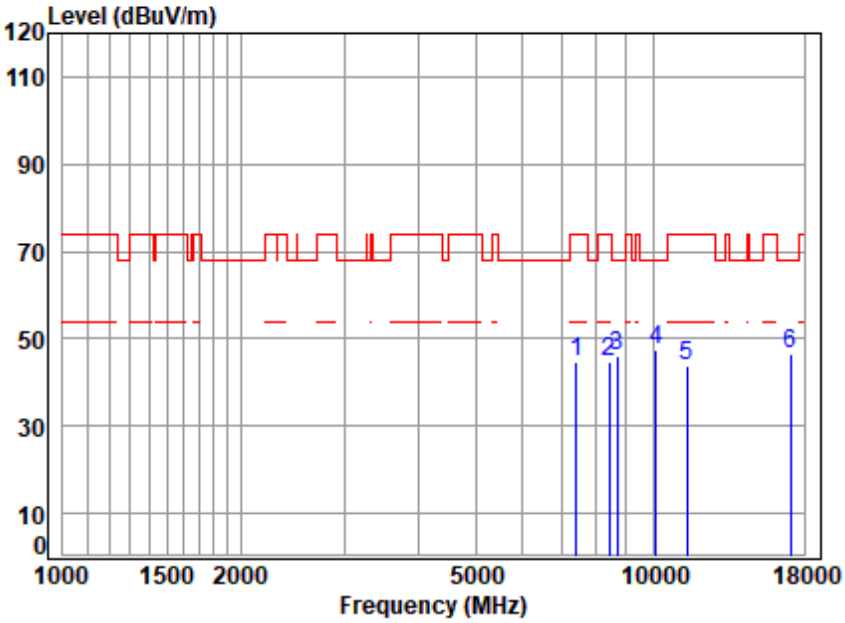
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5700 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7420.276	11.45	36.74	56.36	53.02	44.85	74.00	-29.15	peak
2	8419.234	11.76	38.52	55.52	50.09	44.85	74.00	-29.15	peak
3	8689.318	12.08	38.56	55.28	50.67	46.03	68.20	-22.17	peak
4	pp10092.820	13.25	39.09	54.04	49.19	47.49	68.20	-20.71	peak
5	11400.000	14.21	39.70	53.62	43.53	43.82	74.00	-30.18	peak
6	17100.000	18.47	39.80	54.32	42.70	46.65	68.20	-21.55	peak

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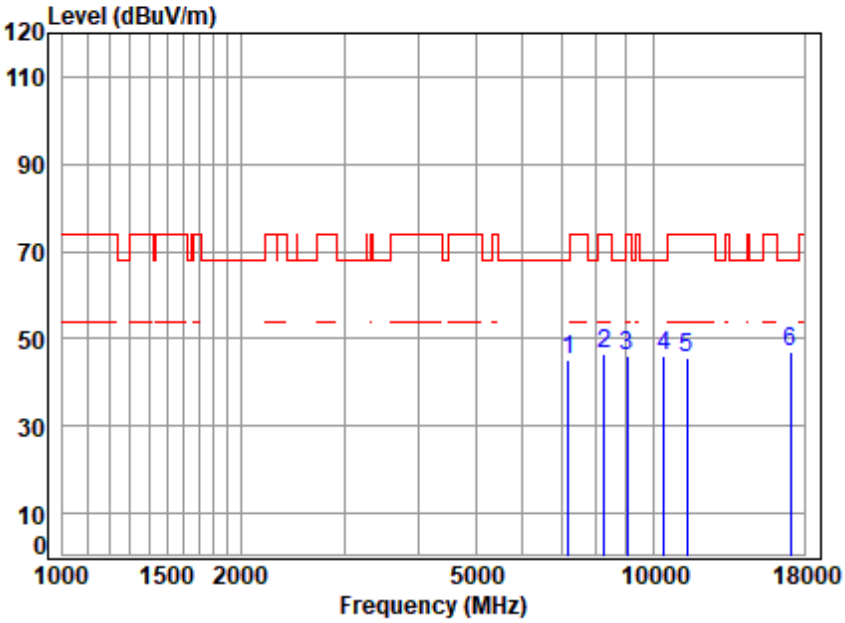
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5700 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7189.636	11.57	36.58	56.55	53.46	45.06	68.20	-23.14	peak
2	8257.864	11.68	37.82	55.67	52.76	46.59	74.00	-27.41	peak
3	9023.043	12.14	38.60	54.98	50.40	46.16	74.00	-27.84	peak
4	10437.830	13.63	39.04	53.84	47.41	46.24	68.20	-21.96	peak
5	11400.000	14.21	39.70	53.62	45.44	45.73	74.00	-28.27	peak
6	pp17100.000	18.47	39.80	54.32	43.18	47.13	68.20	-21.07	peak

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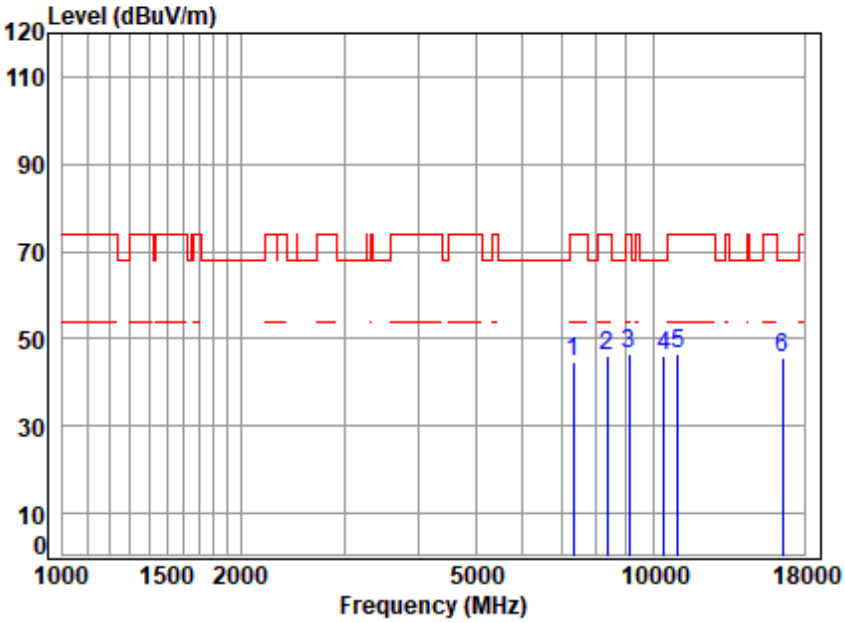
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5510 TX RSE
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7315.214	11.51	36.73	56.45	52.72	44.51	74.00	-29.49	peak
2	8350.908	11.69	38.70	55.58	51.30	46.11	74.00	-27.89	peak
3	9087.606	12.12	38.60	54.92	50.82	46.62	74.00	-27.38	peak
4	pp10416.590	13.62	39.02	53.85	47.39	46.18	68.20	-22.02	peak
5	11020.000	14.27	39.42	53.51	46.29	46.47	74.00	-27.53	peak
6	16530.000	17.71	38.99	54.16	43.29	45.83	68.20	-22.37	peak

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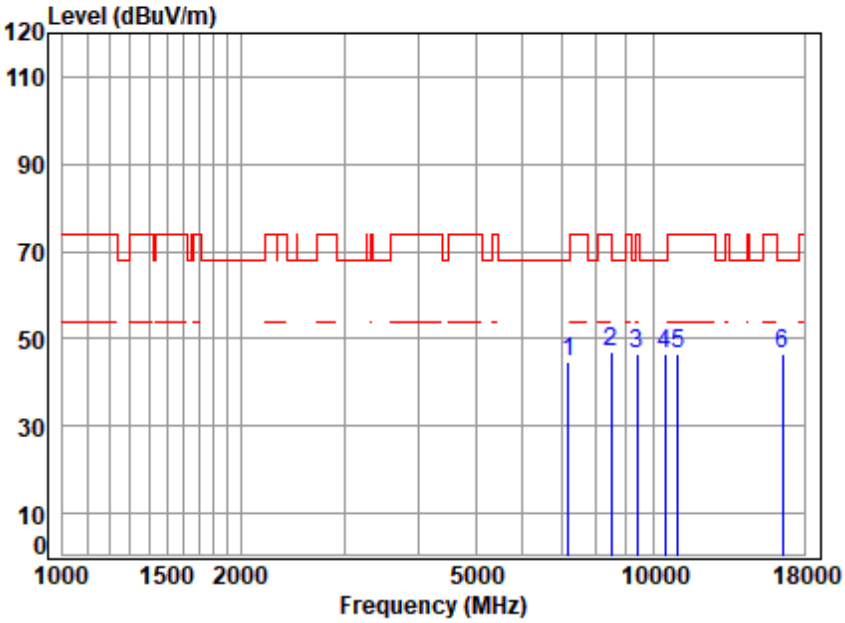
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5510 TX RSE
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7175.005	11.64	36.55	56.56	53.05	44.68	68.20	-23.52	peak
2	8488.119	12.23	38.32	55.46	51.94	47.03	74.00	-26.97	peak
3	9388.690	12.29	38.80	54.65	50.19	46.63	74.00	-27.37	peak
4	pp10459.120	13.63	39.06	53.82	47.78	46.65	68.20	-21.55	peak
5	11020.000	14.27	39.42	53.51	46.31	46.49	74.00	-27.51	peak
6	16530.000	17.71	38.99	54.16	44.00	46.54	68.20	-21.66	peak

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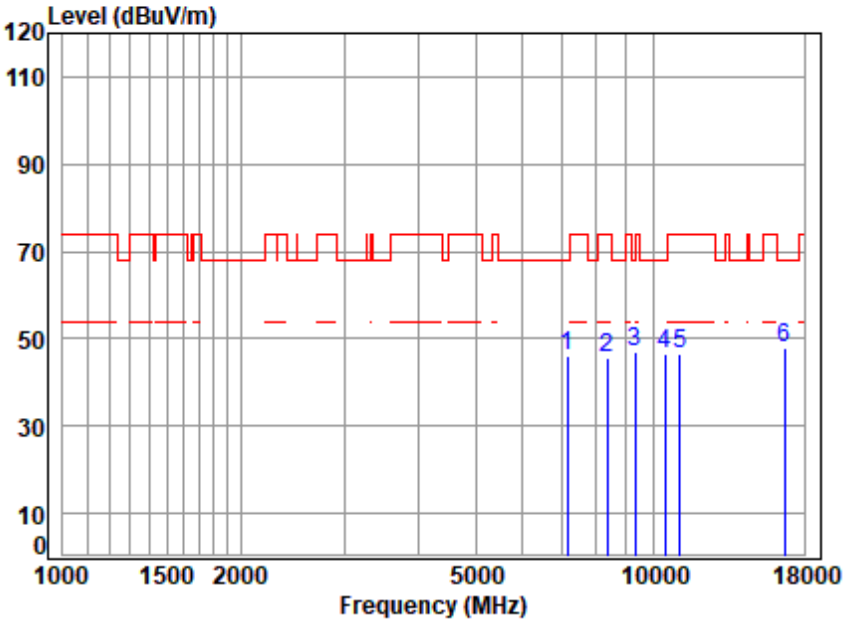
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5550 TX RSE
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7153.113	11.74	36.51	56.58	54.22	45.89	68.20	-22.31	peak
2	8359.419	11.68	38.68	55.58	50.73	45.51	74.00	-28.49	peak
3	9303.017	12.17	38.80	54.73	50.58	46.82	74.00	-27.18	peak
4	10469.780	13.63	39.07	53.82	47.65	46.53	68.20	-21.67	peak
5	11100.000	14.66	39.50	53.53	45.82	46.45	74.00	-27.55	peak
6	pp16650.000	17.62	39.30	54.19	45.23	47.96	68.20	-20.24	peak

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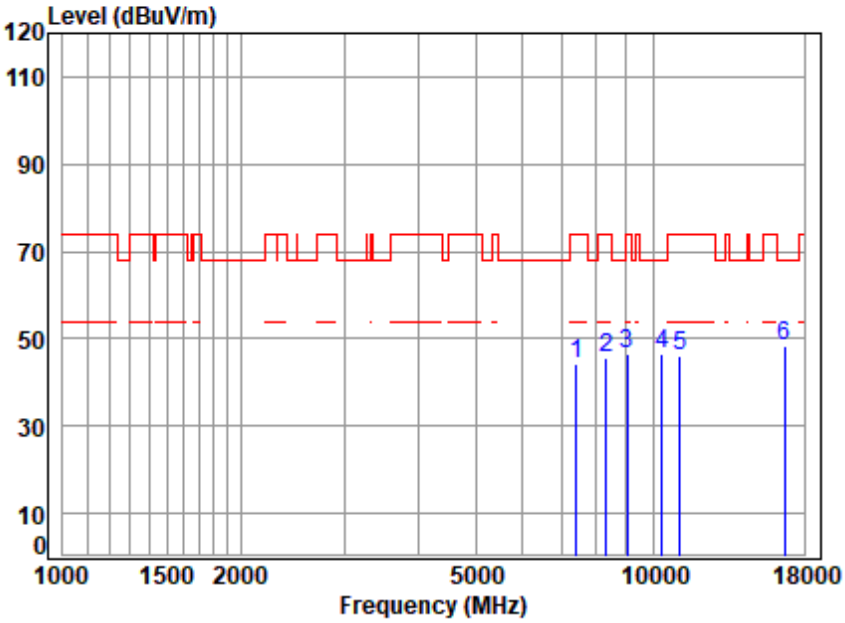
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5550 TX RSE
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7397.636	11.50	36.70	56.38	52.37	44.19	74.00	-29.81	peak
2	8316.953	11.74	38.17	55.61	51.42	45.72	74.00	-28.28	peak
3	9032.237	12.14	38.60	54.97	50.60	46.37	74.00	-27.63	peak
4	10363.680	13.61	39.00	53.88	47.81	46.54	68.20	-21.66	peak
5	11100.000	14.66	39.50	53.53	45.32	45.95	74.00	-28.05	peak
6	pp16650.000	17.62	39.30	54.19	45.61	48.34	68.20	-19.86	peak

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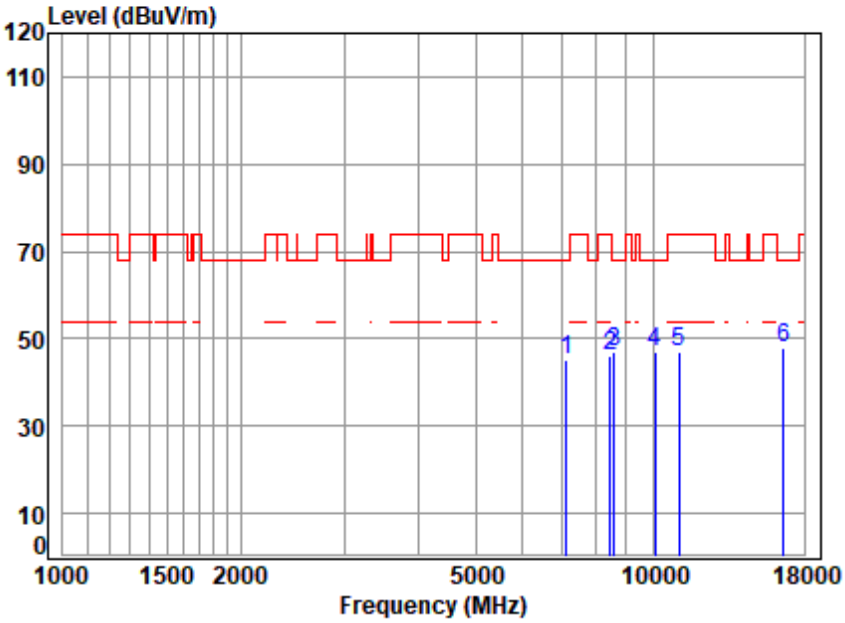
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5530 TX RSE
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7131.289	11.84	36.46	56.59	53.63	45.34	68.20	-22.86	peak
2	8445.000	11.94	38.42	55.50	51.24	46.10	74.00	-27.90	peak
3	8592.505	11.99	38.47	55.37	52.01	47.10	68.20	-21.10	peak
4	10051.780	13.14	39.00	54.07	49.07	47.14	68.20	-21.06	peak
5	11060.000	14.46	39.46	53.52	46.55	46.95	74.00	-27.05	peak
6	pp16590.000	17.66	39.17	54.18	45.31	47.96	68.20	-20.24	peak

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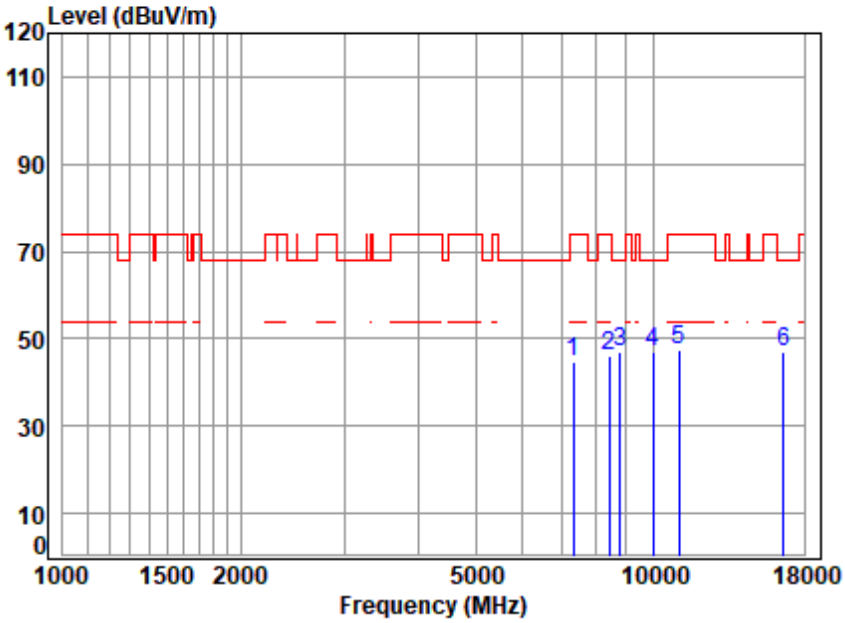
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5530 TX RSE
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7307.767	11.51	36.72	56.45	52.84	44.62	74.00	-29.38	peak
2	8419.234	11.76	38.52	55.52	51.38	46.14	74.00	-27.86	peak
3	8796.179	12.24	38.50	55.18	51.22	46.78	68.20	-21.42	peak
4 pp	9970.208	12.95	38.90	54.13	49.32	47.04	68.20	-21.16	peak
5	11060.000	14.46	39.46	53.52	46.87	47.27	74.00	-26.73	peak
6	16590.000	17.66	39.17	54.18	44.22	46.87	68.20	-21.33	peak

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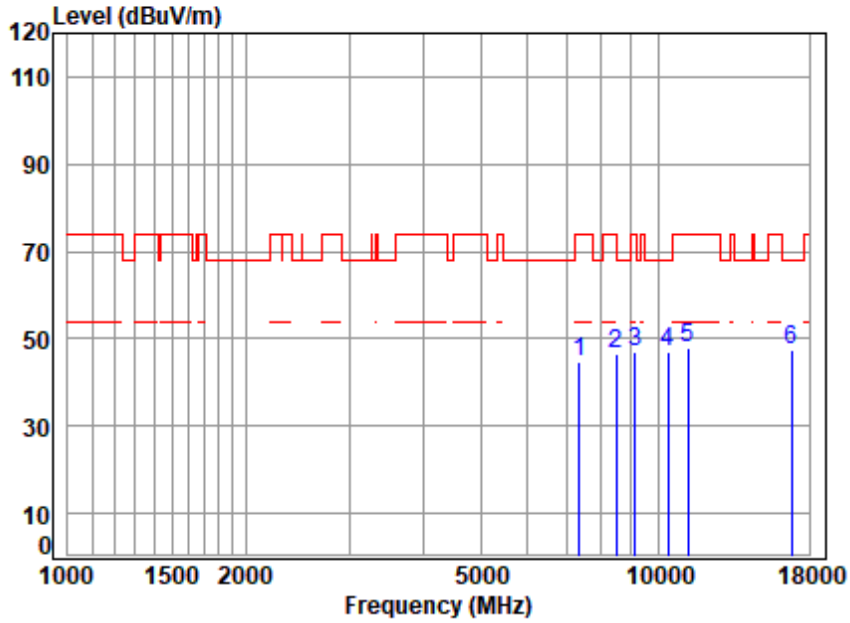
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5610 TX RSE
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7337.601	11.51	36.78	56.43	52.82	44.68	74.00	-29.32	peak
2	8496.769	12.29	38.31	55.45	51.38	46.53	74.00	-27.47	peak
3	9134.007	12.19	38.67	54.88	51.08	47.06	74.00	-26.94	peak
4	10374.240	13.61	39.00	53.88	48.31	47.04	68.20	-21.16	peak
5	11220.000	14.74	39.62	53.57	46.95	47.74	74.00	-26.26	peak
6	pp16830.000	17.68	39.60	54.25	44.60	47.63	68.20	-20.57	peak

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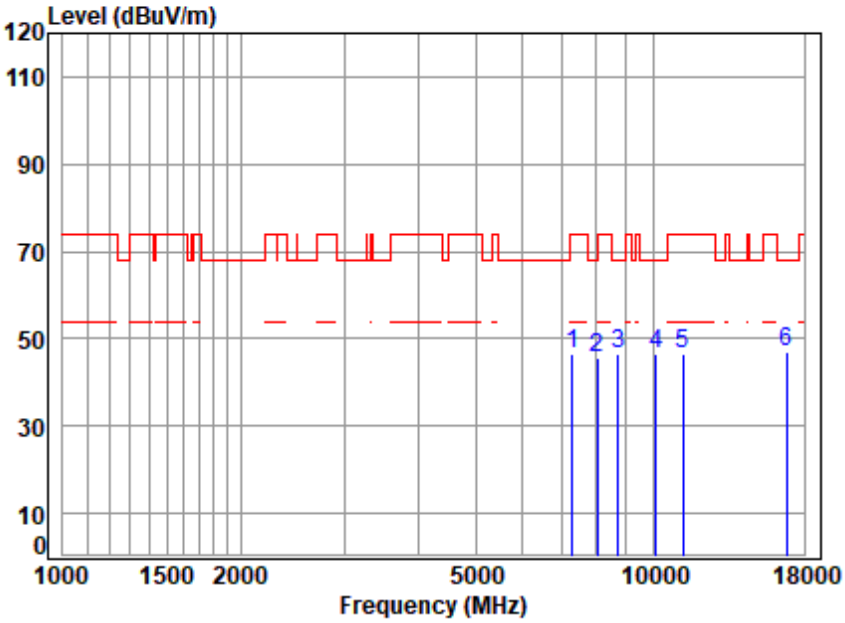
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5610 TX RSE
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7285.470	11.51	36.67	56.47	54.89	46.60	74.00	-27.40	peak
2	8050.239	11.50	37.80	55.85	52.25	45.70	74.00	-28.30	peak
3	8707.038	12.10	38.59	55.26	51.16	46.59	68.20	-21.61	peak
4	10103.110	13.26	39.10	54.04	48.13	46.45	68.20	-21.75	peak
5	11220.000	14.74	39.62	53.57	45.76	46.55	74.00	-27.45	peak
6	pp16830.000	17.68	39.60	54.25	43.93	46.96	68.20	-21.24	peak

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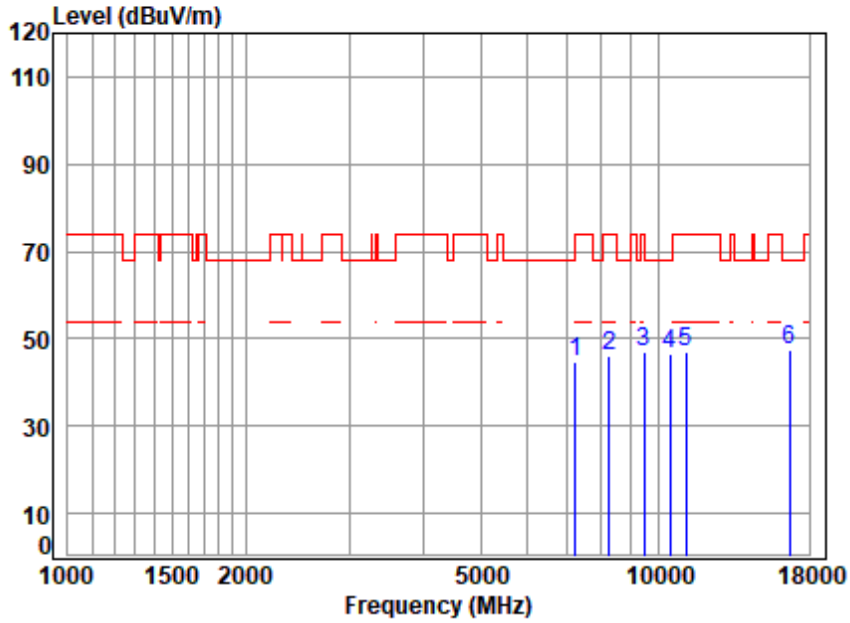
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5570 TX RSE
: 5GWIFI 11AC160

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7248.460	11.52	36.60	56.50	53.21	44.83	68.20	-23.37	peak
2	8249.458	11.66	37.80	55.68	52.22	46.00	74.00	-28.00	peak
3	9475.153	12.50	38.85	54.57	50.36	47.14	74.00	-26.86	peak
4	10469.780	13.63	39.07	53.82	47.55	46.43	68.20	-21.77	peak
5	11140.000	14.70	39.54	53.54	46.44	47.14	74.00	-26.86	peak
6	pp16710.000	17.58	39.42	54.21	44.70	47.49	68.20	-20.71	peak

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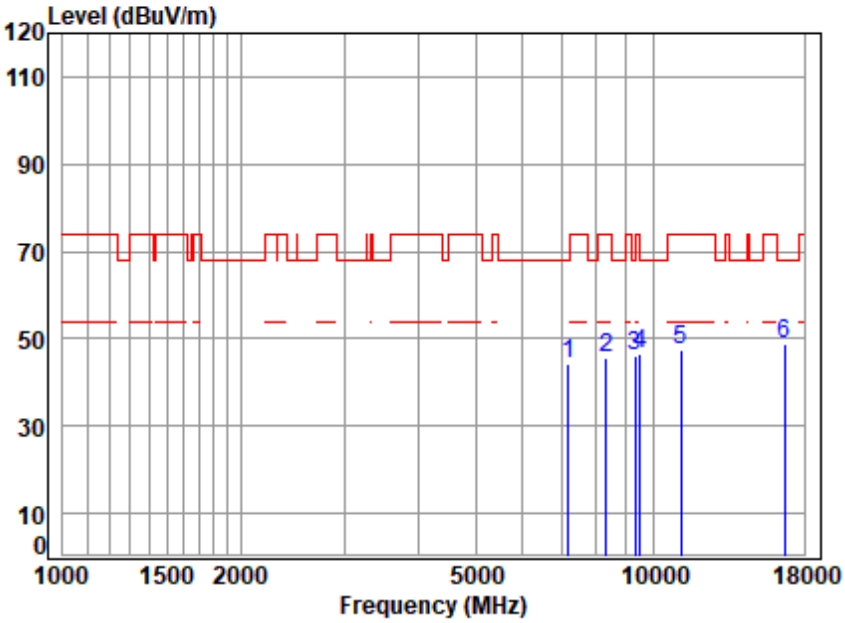
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5570 TX RSE
: 5GWIFI 11AC160

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7167.700	11.67	36.54	56.57	52.77	44.41	68.20	-23.79	peak
2	8325.429	11.73	38.31	55.61	51.08	45.51	74.00	-28.49	peak
3	9303.017	12.17	38.80	54.73	50.05	46.29	74.00	-27.71	peak
4	9513.836	12.54	38.87	54.54	49.83	46.70	68.20	-21.50	peak
5	11140.000	14.70	39.54	53.54	46.63	47.33	74.00	-26.67	peak
6	pp16710.000	17.58	39.42	54.21	46.03	48.82	68.20	-19.38	peak

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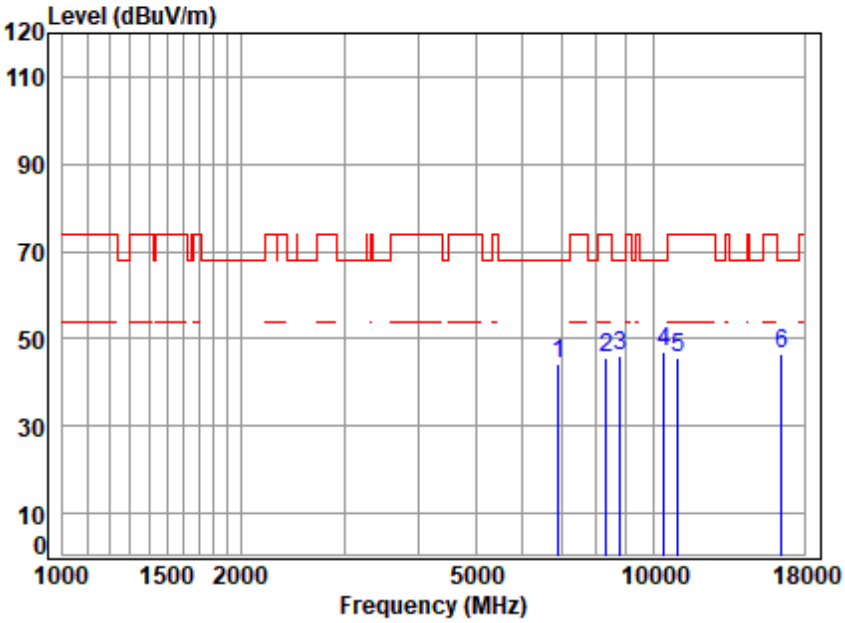
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5500 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6916.673	11.37	36.17	56.72	53.63	44.45	68.20	-23.75	peak
2	8316.953	11.74	38.17	55.61	51.50	45.80	74.00	-28.20	peak
3	8787.224	12.23	38.50	55.19	50.62	46.16	68.20	-22.04	peak
4	pp10416.590	13.62	39.02	53.85	48.22	47.01	68.20	-21.19	peak
5	11000.000	14.17	39.40	53.50	45.52	45.59	74.00	-28.41	peak
6	16500.000	17.74	38.90	54.15	44.21	46.70	68.20	-21.50	peak

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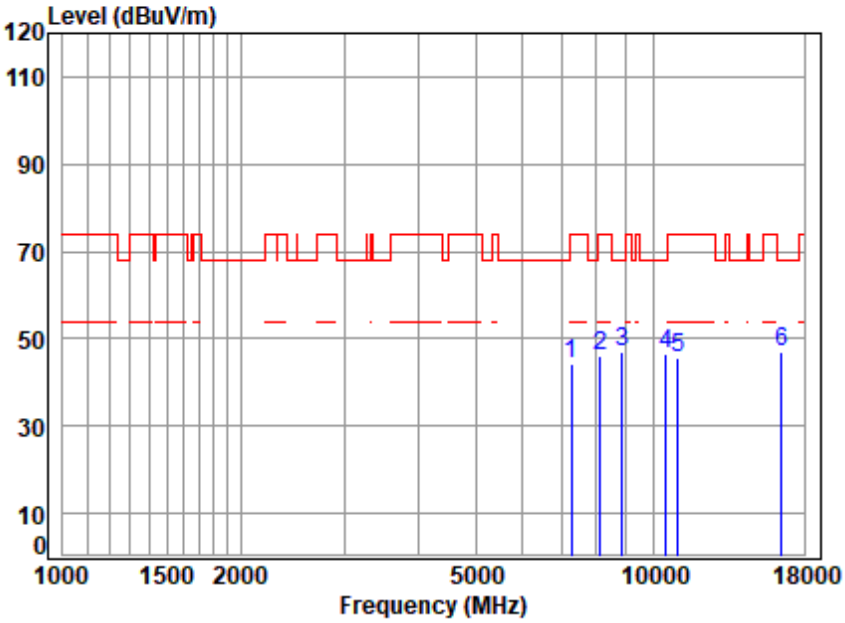
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5500 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7270.644	11.51	36.64	56.48	52.72	44.39	74.00	-29.61	peak
2	8124.376	11.48	37.85	55.79	52.38	45.92	74.00	-28.08	peak
3	8859.119	12.23	38.52	55.13	51.24	46.86	68.20	-21.34	peak
4	10501.820	13.64	39.10	53.80	47.48	46.42	68.20	-21.78	peak
5	11000.000	14.17	39.40	53.50	45.67	45.74	74.00	-28.26	peak
6	pp16500.000	17.74	38.90	54.15	44.49	46.98	68.20	-21.22	peak

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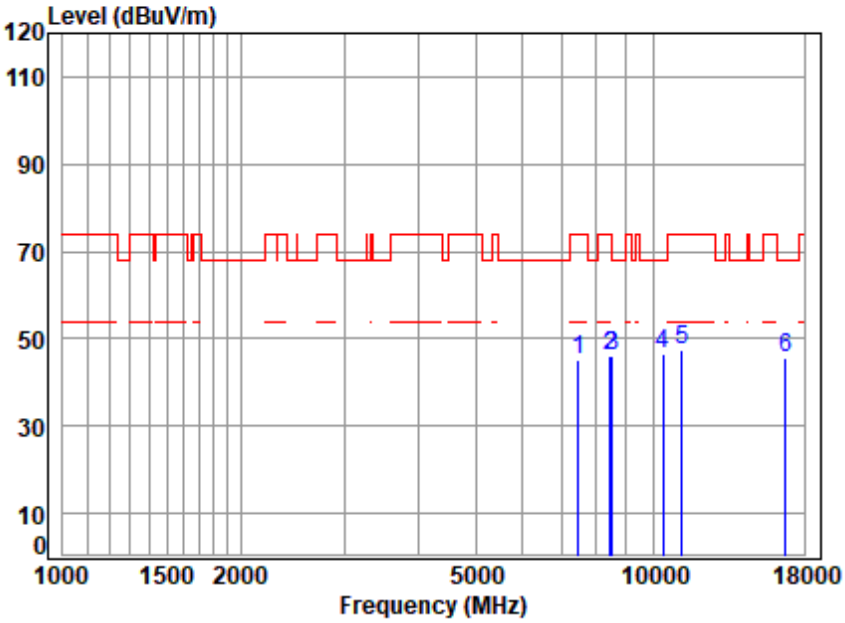
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5580 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7458.163	11.34	36.80	56.33	53.20	45.01	74.00	-28.99	peak
2	8453.606	11.99	38.39	55.49	50.98	45.87	74.00	-28.13	peak
3	8522.772	12.23	38.30	55.43	51.04	46.14	68.20	-22.06	peak
4	pp10374.240	13.61	39.00	53.88	47.83	46.56	68.20	-21.64	peak
5	11160.000	14.72	39.56	53.55	46.51	47.24	74.00	-26.76	peak
6	16740.000	17.54	39.48	54.22	42.84	45.64	68.20	-22.56	peak

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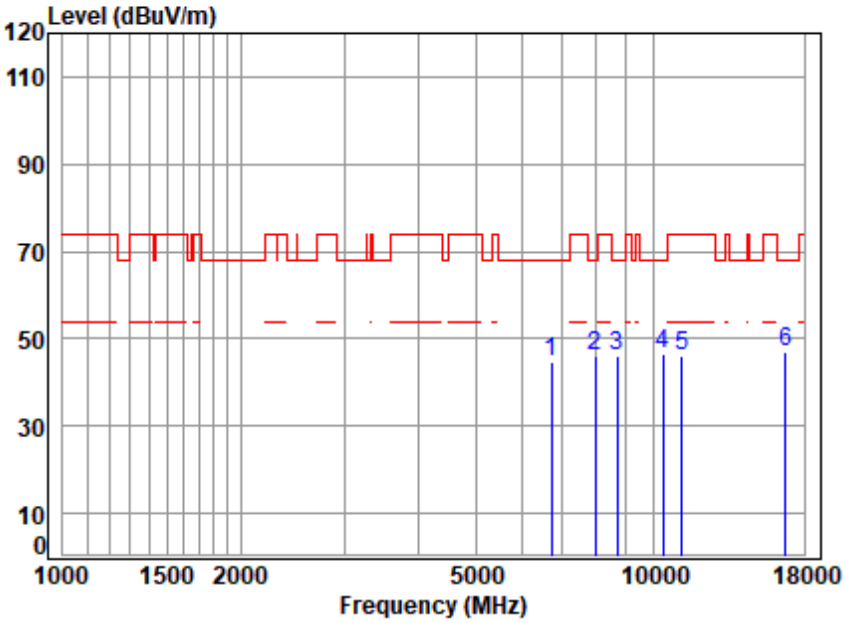
Test Mode: 16; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5580 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6729.047	11.40	35.57	56.75	54.57	44.79	68.20	-23.41	peak
2	7968.658	11.55	37.74	55.93	52.55	45.91	68.20	-22.29	peak
3	8671.635	12.05	38.49	55.30	50.95	46.19	68.20	-22.01	peak
4	10395.390	13.62	39.00	53.86	47.68	46.44	68.20	-21.76	peak
5	11160.000	14.72	39.56	53.55	45.52	46.25	74.00	-27.75	peak
6	pp16740.000	17.54	39.48	54.22	44.26	47.06	68.20	-21.14	peak

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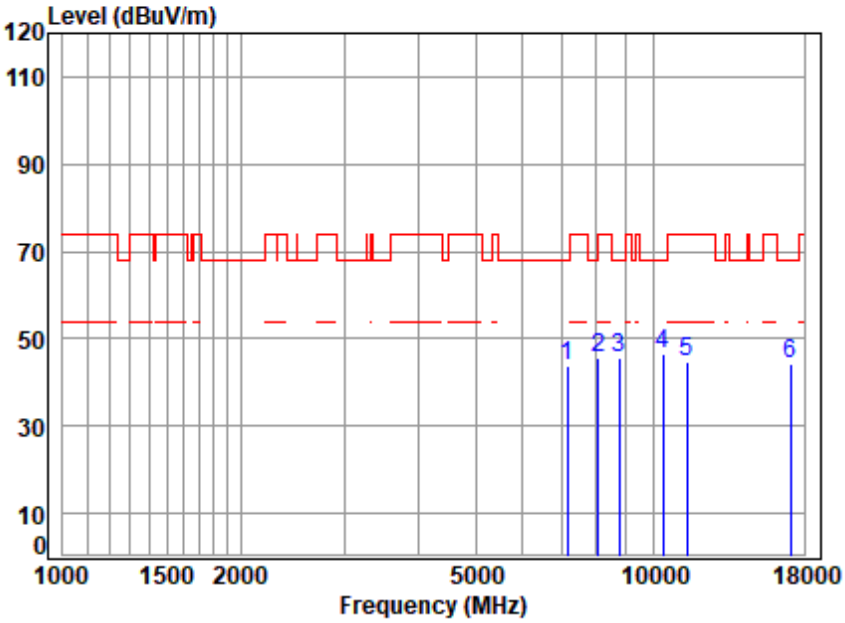
Member of the SGS Group (SGS SA)

Test Mode: 16; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5700 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7145.831	11.77	36.49	56.58	52.34	44.02	68.20	-24.18	peak
2	8074.876	11.48	37.80	55.83	52.17	45.62	74.00	-28.38	peak
3	8742.585	12.16	38.51	55.23	49.97	45.41	68.20	-22.79	peak
4	pp10374.240	13.61	39.00	53.88	47.88	46.61	68.20	-21.59	peak
5	11400.000	14.21	39.70	53.62	44.59	44.88	74.00	-29.12	peak
6	17100.000	18.47	39.80	54.32	40.47	44.42	68.20	-23.78	peak

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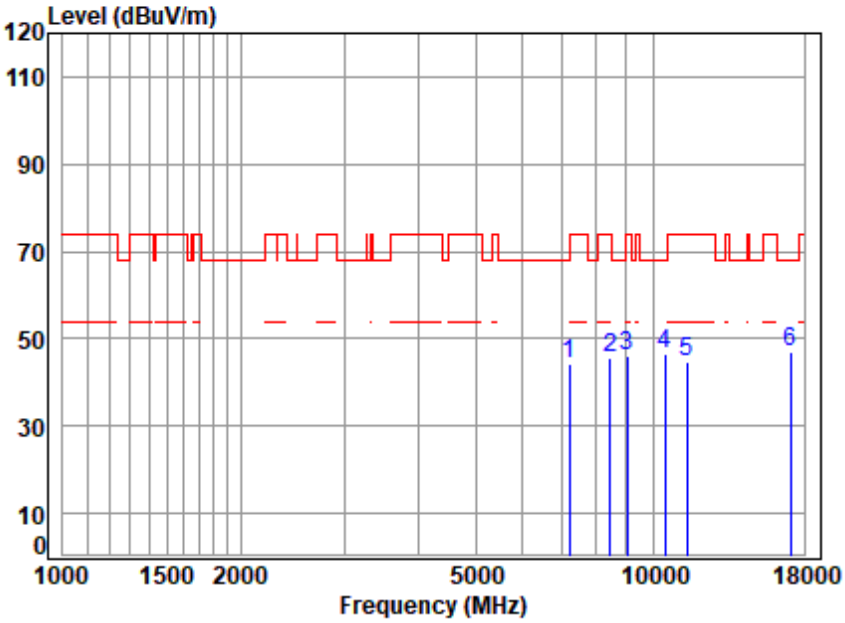
Test Mode: 16; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5700 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7211.639	11.52	36.60	56.53	52.75	44.34	68.20	-23.86	peak
2	8453.606	11.99	38.39	55.49	50.57	45.46	74.00	-28.54	peak
3	9032.237	12.14	38.60	54.97	50.13	45.90	74.00	-28.10	peak
4	10459.120	13.63	39.06	53.82	47.86	46.73	68.20	-21.47	peak
5	11400.000	14.21	39.70	53.62	44.46	44.75	74.00	-29.25	peak
6	pp17100.000	18.47	39.80	54.32	43.23	47.18	68.20	-21.02	peak

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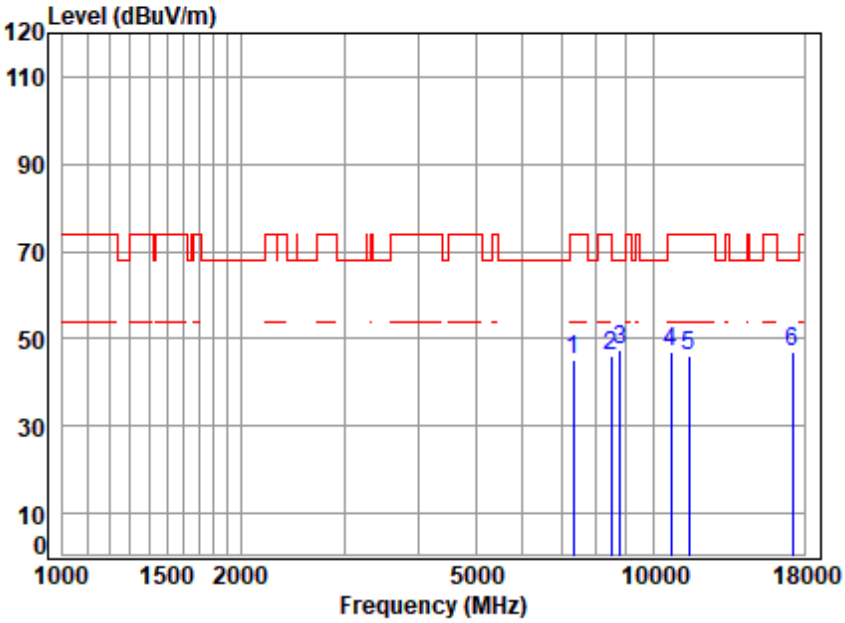
Member of the SGS Group (SGS SA)

Test Mode: 16; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5745 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7307.767	11.51	36.72	56.45	53.35	45.13	74.00	-28.87	peak
2	8488.119	12.23	38.32	55.46	51.07	46.16	74.00	-27.84	peak
3 pp	8787.224	12.23	38.50	55.19	51.97	47.51	68.20	-20.69	peak
4	10717.950	13.98	39.38	53.67	47.40	47.09	74.00	-26.91	peak
5	11490.000	14.97	39.61	53.65	44.94	45.87	74.00	-28.13	peak
6	17235.000	17.83	40.01	54.35	43.44	46.93	68.20	-21.27	peak

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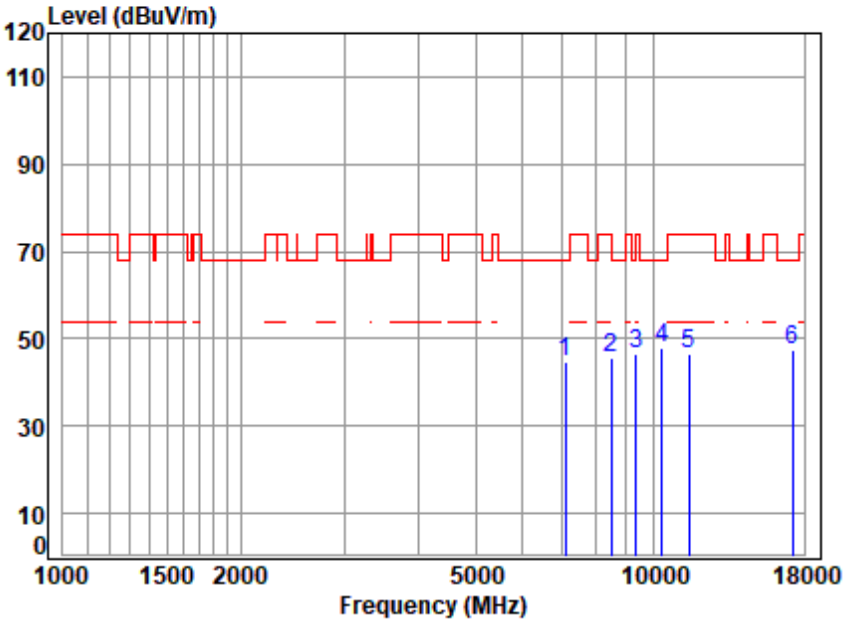
Test Mode: 16; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5745 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7109.531	11.95	36.42	56.61	53.00	44.76	68.20	-23.44	peak
2	8479.478	12.17	38.34	55.47	50.72	45.76	74.00	-28.24	peak
3	9360.045	12.25	38.80	54.68	50.20	46.57	74.00	-27.43	peak
4	pp10363.680	13.61	39.00	53.88	49.38	48.11	68.20	-20.09	peak
5	11490.000	14.97	39.61	53.65	45.45	46.38	74.00	-27.62	peak
6	17235.000	17.83	40.01	54.35	44.14	47.63	68.20	-20.57	peak

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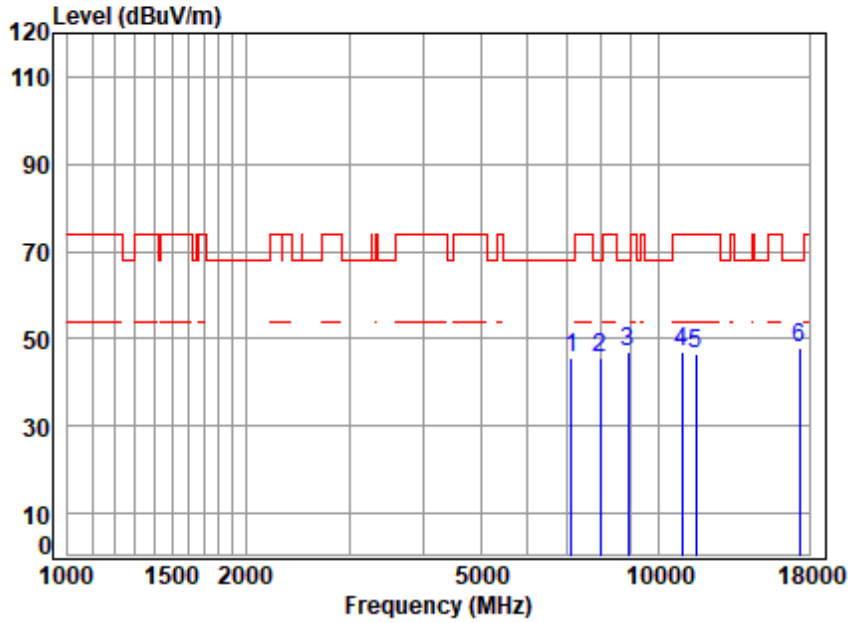
Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5785 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7131.289	11.84	36.46	56.59	53.78	45.49	68.20	-22.71	peak
2	7984.908	11.56	37.77	55.91	52.34	45.76	68.20	-22.44	peak
3	8904.353	12.22	38.59	55.09	51.23	46.95	68.20	-21.25	peak
4	10983.190	14.13	39.38	53.51	46.91	46.91	74.00	-27.09	peak
5	11570.000	14.78	39.60	53.67	45.98	46.69	74.00	-27.31	peak
6	pp17355.000	18.00	40.31	54.37	43.75	47.69	68.20	-20.51	peak

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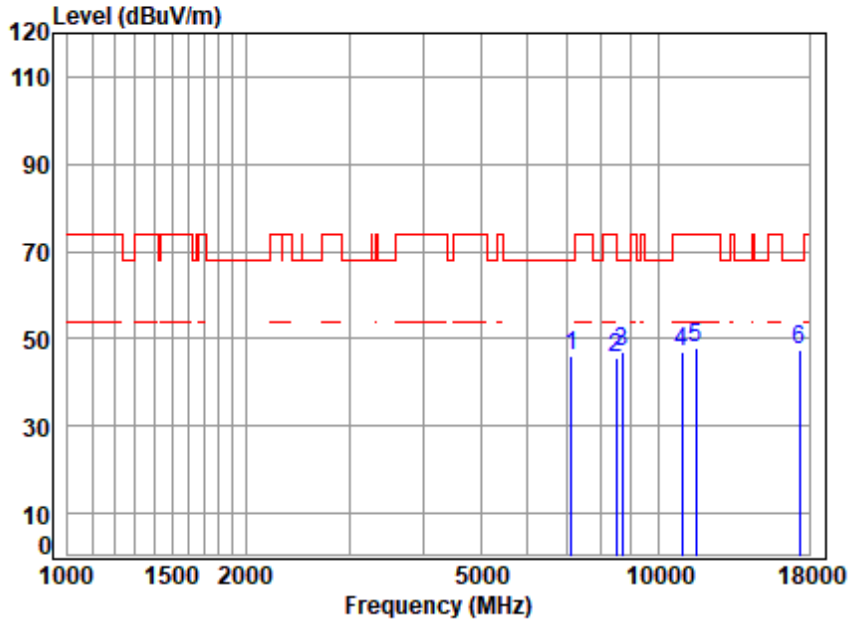
Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5785 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7124.029	11.88	36.45	56.60	54.23	45.96	68.20	-22.24	peak
2	8496.769	12.29	38.31	55.45	50.66	45.81	74.00	-28.19	peak
3	8671.635	12.05	38.49	55.30	51.96	47.20	68.20	-21.00	peak
4	10960.830	14.09	39.36	53.52	47.07	47.00	74.00	-27.00	peak
5	11570.000	14.78	39.60	53.67	47.31	48.02	74.00	-25.98	peak
6	pp17355.000	18.00	40.31	54.37	43.30	47.24	68.20	-20.96	peak

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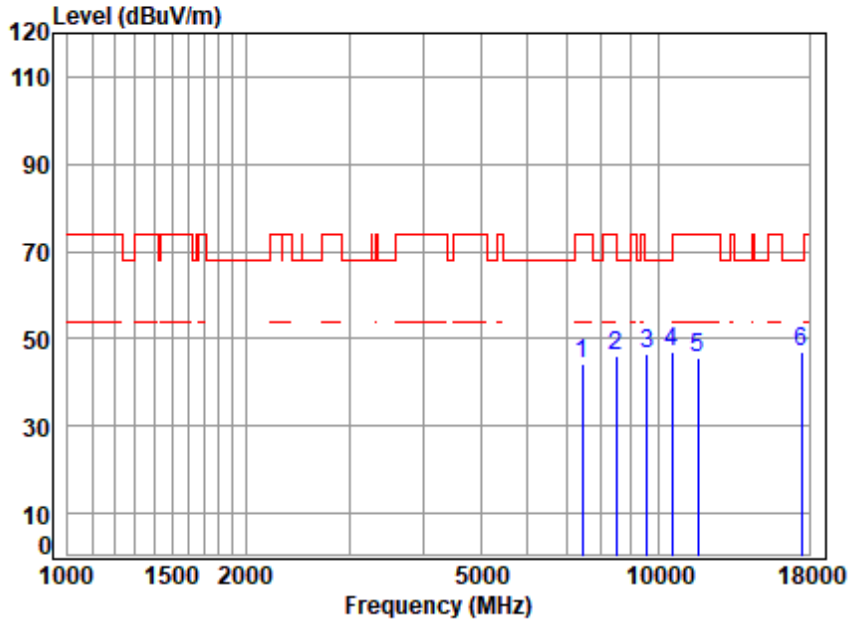
Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5825 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7427.838	11.42	36.76	56.36	52.50	44.32	74.00	-29.68	peak
2	8488.119	12.23	38.32	55.46	50.91	46.00	74.00	-28.00	peak
3	9581.912	12.45	38.80	54.48	49.74	46.51	68.20	-21.69	peak
4	pp10555.440	13.61	39.21	53.77	47.98	47.03	68.20	-21.17	peak
5	11650.000	14.69	39.55	53.69	45.14	45.69	74.00	-28.31	peak
6	17475.000	18.35	40.78	54.40	42.09	46.82	68.20	-21.38	peak

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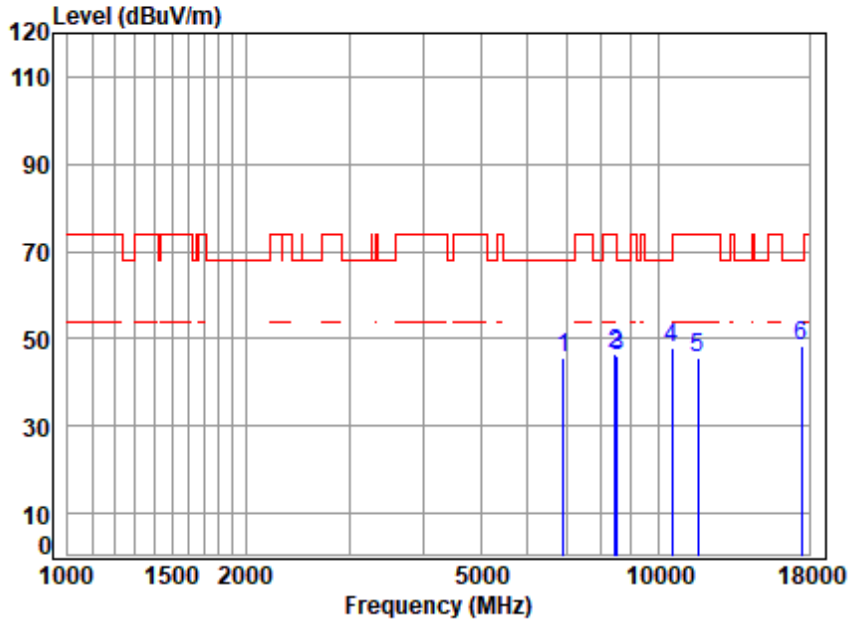
Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5825 TX RSE
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6916.673	11.37	36.17	56.72	54.95	45.77	68.20	-22.43	peak
2	8445.000	11.94	38.42	55.50	51.62	46.48	74.00	-27.52	peak
3	8531.458	12.20	38.30	55.42	50.97	46.05	68.20	-22.15	peak
4	10544.690	13.62	39.19	53.77	48.68	47.72	68.20	-20.48	peak
5	11650.000	14.69	39.55	53.69	44.93	45.48	74.00	-28.52	peak
6	pp17475.000	18.35	40.78	54.40	43.44	48.17	68.20	-20.03	peak

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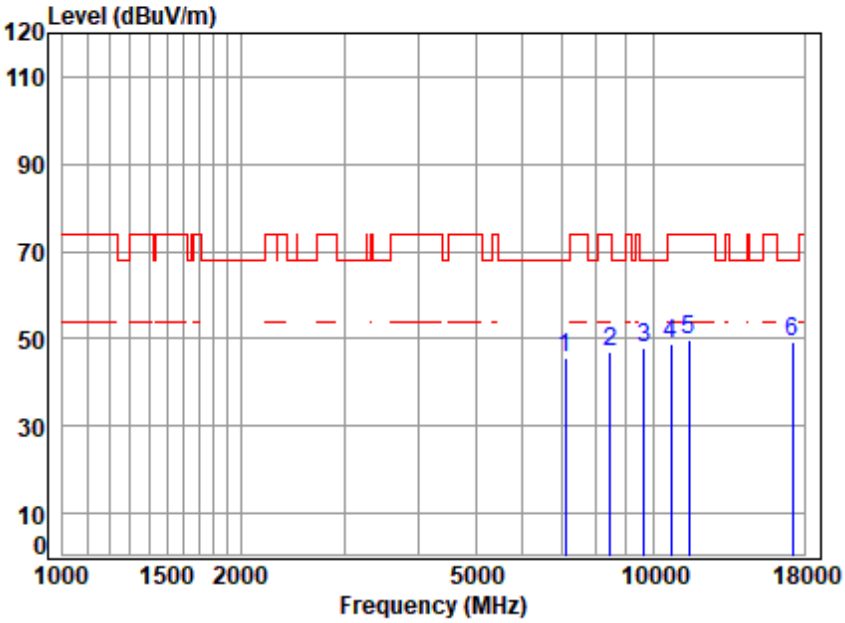
Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5745 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7109.531	11.95	36.42	56.61	53.80	45.56	68.20	-22.64	peak
2	8445.000	11.94	38.42	55.50	52.04	46.90	74.00	-27.10	peak
3	9630.836	12.51	38.74	54.43	50.93	47.75	68.20	-20.45	peak
4	10717.950	13.98	39.38	53.67	49.04	48.73	74.00	-25.27	peak
5	11490.000	14.97	39.61	53.65	48.66	49.59	74.00	-24.41	peak
6	pp17235.000	17.83	40.01	54.35	45.79	49.28	68.20	-18.92	peak

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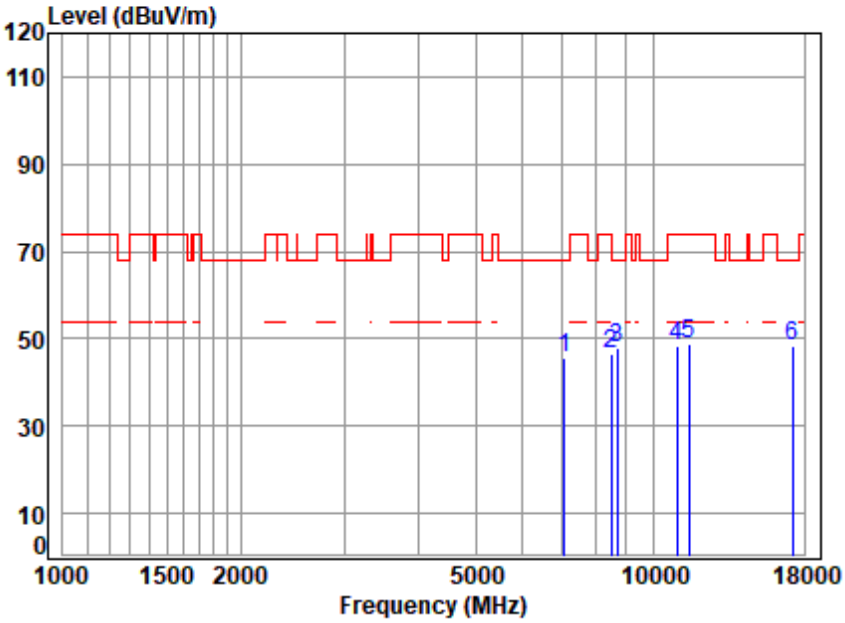
Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5745 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7073.416	11.83	36.35	56.64	54.00	45.54	68.20	-22.66	peak
2	8479.478	12.17	38.34	55.47	51.63	46.67	74.00	-27.33	peak
3	8698.174	12.09	38.59	55.27	52.48	47.89	68.20	-20.31	peak
4	10983.190	14.13	39.38	53.51	48.22	48.22	74.00	-25.78	peak
5	11490.000	14.97	39.61	53.65	47.96	48.89	74.00	-25.11	peak
6	pp17235.000	17.83	40.01	54.35	44.80	48.29	68.20	-19.91	peak

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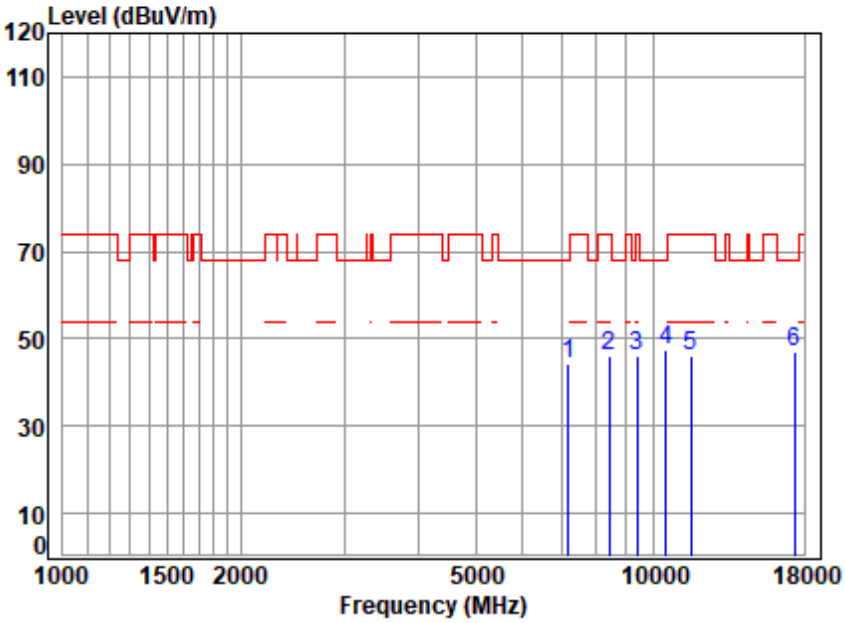
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5785 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7175.005	11.64	36.55	56.56	52.54	44.17	68.20	-24.03	peak
2	8410.663	11.70	38.56	55.53	51.17	45.90	74.00	-28.10	peak
3	9379.132	12.27	38.80	54.66	49.64	46.05	74.00	-27.95	peak
4	pp10501.820	13.64	39.10	53.80	48.52	47.46	68.20	-20.74	peak
5	11570.000	14.78	39.60	53.67	45.50	46.21	74.00	-27.79	peak
6	17355.000	18.00	40.31	54.37	43.18	47.12	68.20	-21.08	peak

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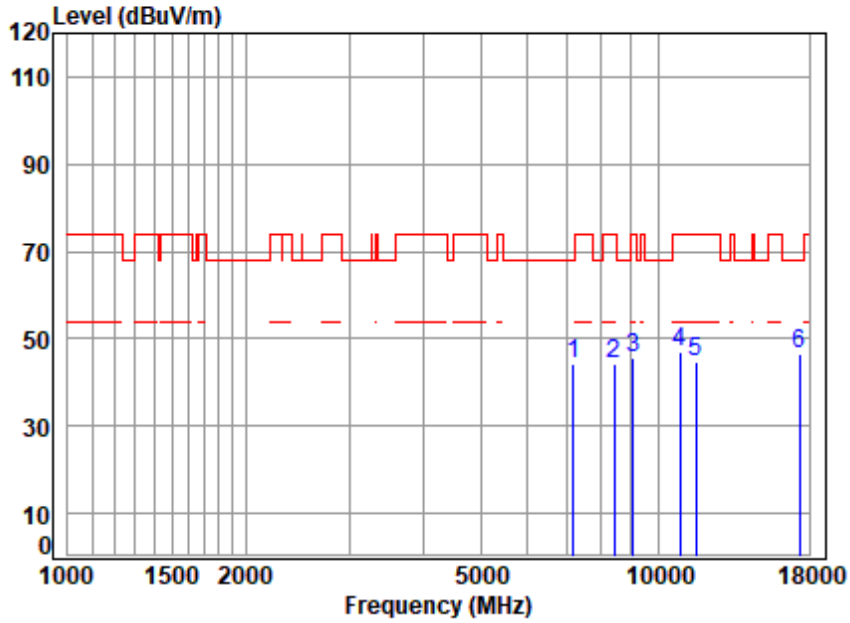
Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5785 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7189.636	11.57	36.58	56.55	52.55	44.15	68.20	-24.05	peak
2	8419.234	11.76	38.52	55.52	49.70	44.46	74.00	-29.54	peak
3	9069.112	12.13	38.60	54.94	49.82	45.61	74.00	-28.39	peak
4	10871.880	13.88	39.30	53.58	47.26	46.86	74.00	-27.14	peak
5	11570.000	14.78	39.60	53.67	44.06	44.77	74.00	-29.23	peak
6	pp17355.000	18.00	40.31	54.37	42.68	46.62	68.20	-21.58	peak

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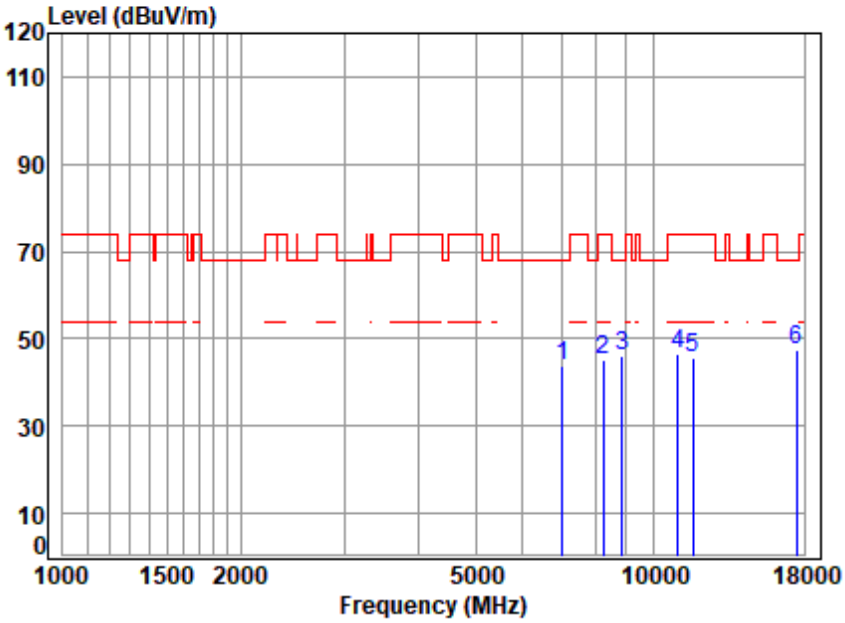
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5825 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7016.012	11.47	36.23	56.69	52.96	43.97	68.20	-24.23	peak
2	8215.915	11.60	37.94	55.71	51.55	45.38	74.00	-28.62	peak
3	8850.100	12.23	38.50	55.13	50.63	46.23	68.20	-21.97	peak
4	11005.580	14.20	39.41	53.50	46.43	46.54	74.00	-27.46	peak
5	11650.000	14.69	39.55	53.69	44.92	45.47	74.00	-28.53	peak
6	pp17475.000	18.35	40.78	54.40	42.61	47.34	68.20	-20.86	peak

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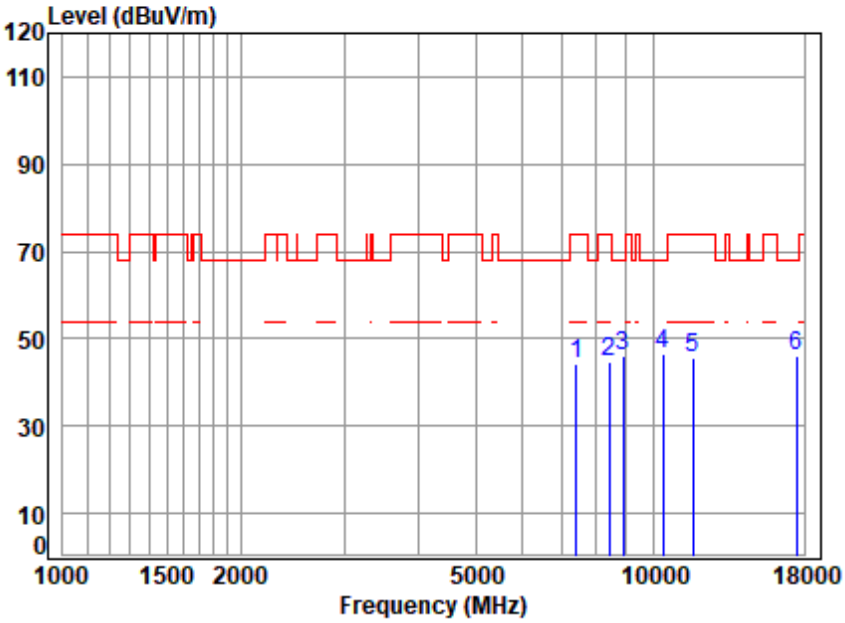
Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5825 TX RSE
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7405.175	11.49	36.71	56.38	52.33	44.15	74.00	-29.85	peak
2	8410.663	11.70	38.56	55.53	50.21	44.94	74.00	-29.06	peak
3	8904.353	12.22	38.59	55.09	50.29	46.01	68.20	-22.19	peak
4	pp10374.240	13.61	39.00	53.88	47.94	46.67	68.20	-21.53	peak
5	11650.000	14.69	39.55	53.69	45.24	45.79	74.00	-28.21	peak
6	17475.000	18.35	40.78	54.40	41.48	46.21	68.20	-21.99	peak

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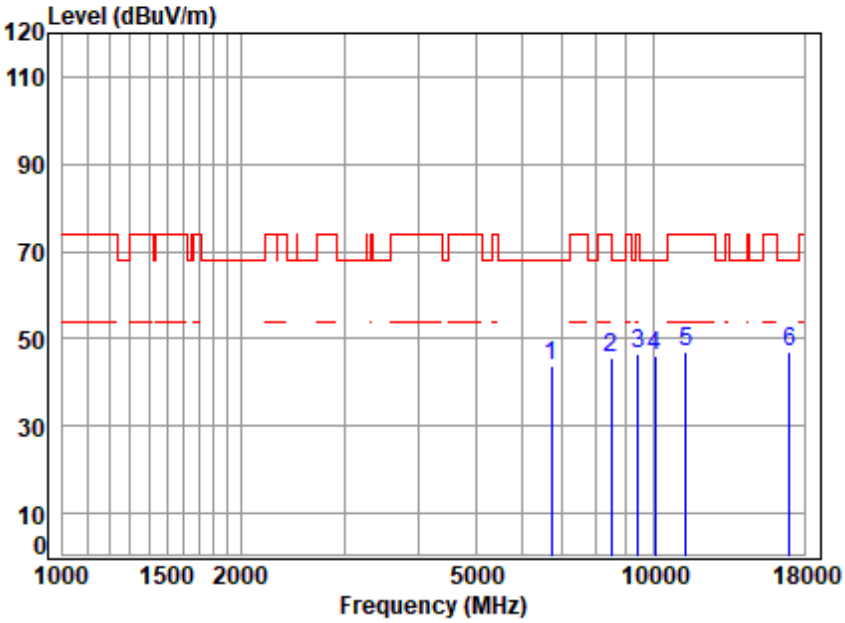
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5670 TX RSE
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6715.353	11.40	35.49	56.76	53.80	43.93	68.20	-24.27	peak
2	8488.119	12.23	38.32	55.46	50.49	45.58	74.00	-28.42	peak
3	9407.836	12.32	38.80	54.63	49.85	46.34	74.00	-27.66	peak
4	10072.280	13.20	39.04	54.06	47.83	46.01	68.20	-22.19	peak
5	11340.000	14.47	39.70	53.60	46.27	46.84	74.00	-27.16	peak
6	pp17010.000	18.11	39.71	54.30	43.28	46.80	68.20	-21.40	peak

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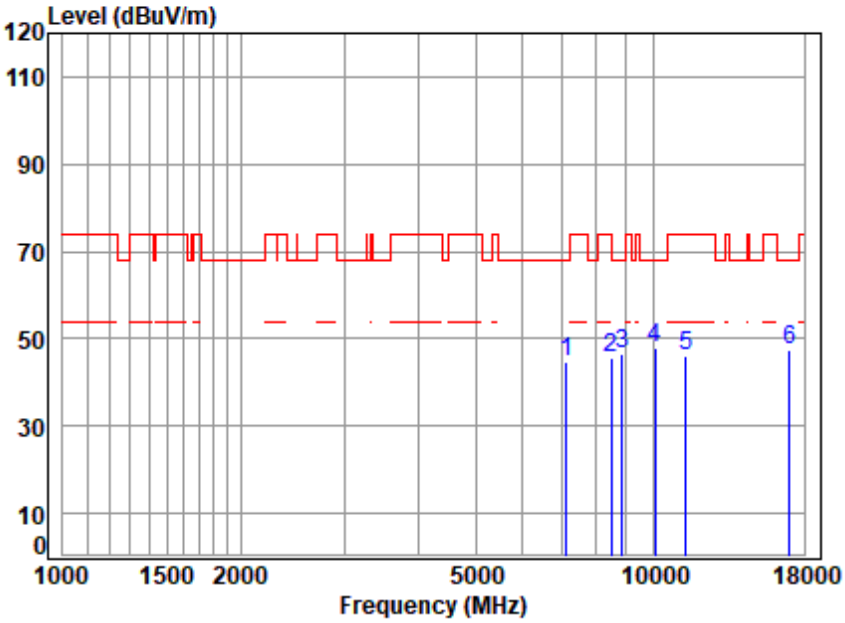

Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5670 TX RSE
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7124.029	11.88	36.45	56.60	52.94	44.67	68.20	-23.53	peak
2	8488.119	12.23	38.32	55.46	50.46	45.55	74.00	-28.45	peak
3	8859.119	12.23	38.52	55.13	50.96	46.58	68.20	-21.62	peak
4	pp10072.280	13.20	39.04	54.06	49.68	47.86	68.20	-20.34	peak
5	11340.000	14.47	39.70	53.60	45.57	46.14	74.00	-27.86	peak
6	17010.000	18.11	39.71	54.30	44.02	47.54	68.20	-20.66	peak

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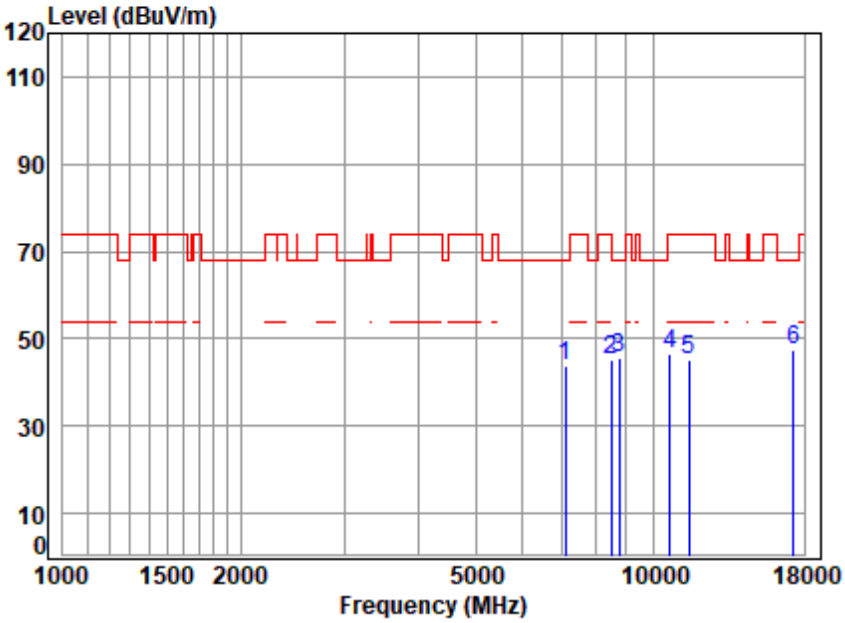
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5755 TX RSE
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7087.840	11.91	36.38	56.63	51.94	43.60	68.20	-24.60	peak
2	8479.478	12.17	38.34	55.47	49.91	44.95	74.00	-29.05	peak
3	8742.585	12.16	38.51	55.23	50.26	45.70	68.20	-22.50	peak
4	10663.500	13.88	39.36	53.70	47.20	46.74	74.00	-27.26	peak
5	11510.000	15.01	39.60	53.65	44.32	45.28	74.00	-28.72	peak
6	pp17265.000	17.83	40.10	54.35	43.75	47.33	68.20	-20.87	peak

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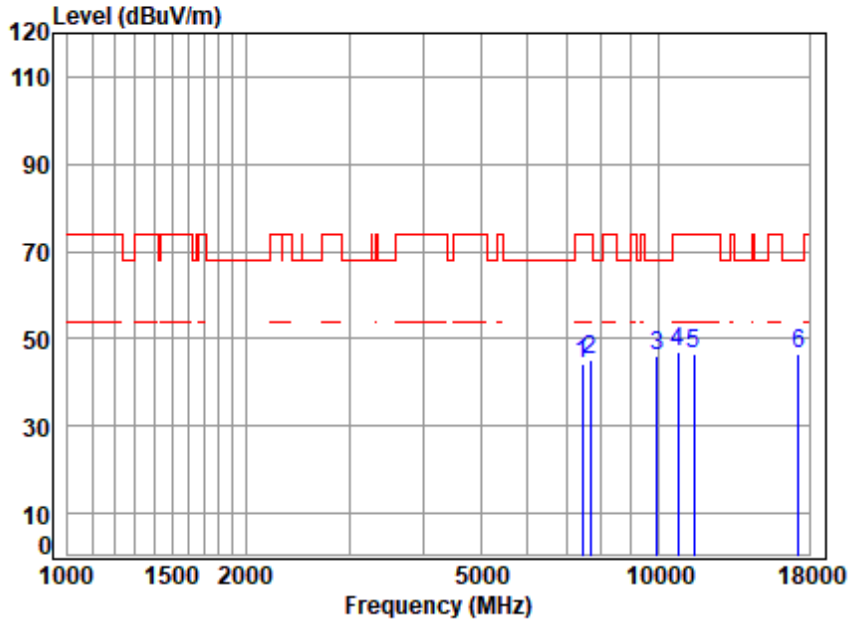
Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5755 TX RSE
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7427.838	11.42	36.76	56.36	52.32	44.14	74.00	-29.86	peak
2	7658.314	11.30	36.90	56.17	53.03	45.06	74.00	-28.94	peak
3	9960.058	12.93	38.90	54.14	48.59	46.28	68.20	-21.92	peak
4	10794.640	13.70	39.31	53.62	47.58	46.97	74.00	-27.03	peak
5	11510.000	15.01	39.60	53.65	45.65	46.61	74.00	-27.39	peak
6	pp17265.000	17.83	40.10	54.35	43.07	46.65	68.20	-21.55	peak

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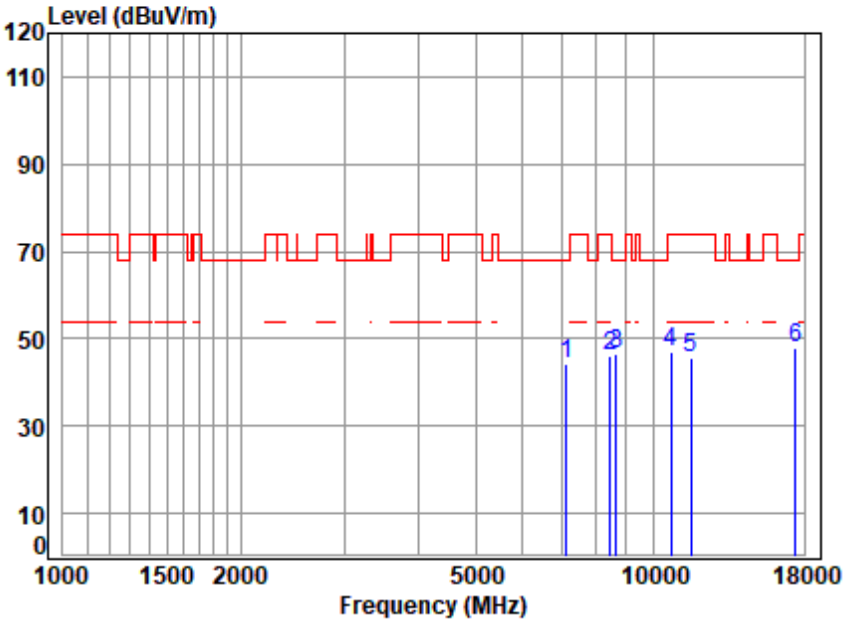
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5795 TX RSE
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7124.029	11.88	36.45	56.60	52.47	44.20	68.20	-24.00	peak
2	8445.000	11.94	38.42	55.50	51.10	45.96	74.00	-28.04	peak
3	8653.987	12.03	38.42	55.31	51.45	46.59	68.20	-21.61	peak
4	10707.040	14.01	39.39	53.68	47.23	46.95	74.00	-27.05	peak
5	11590.000	14.70	39.60	53.68	44.99	45.61	74.00	-28.39	peak
6	pp17385.000	18.09	40.37	54.38	43.98	48.06	68.20	-20.14	peak

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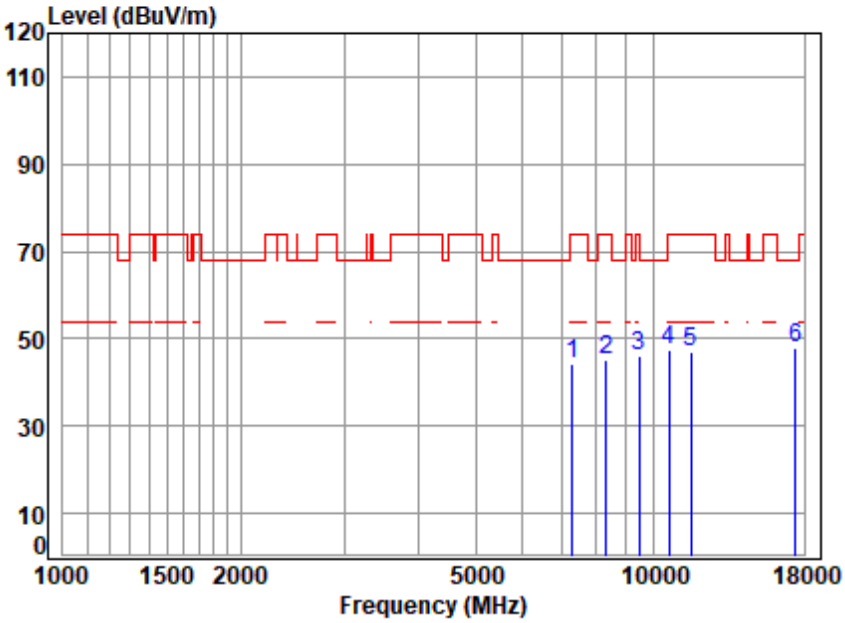
Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5795 TX RSE
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7292.895	11.51	36.69	56.47	52.52	44.25	74.00	-29.75	peak
2	8316.953	11.74	38.17	55.61	51.06	45.36	74.00	-28.64	peak
3	9465.507	12.47	38.83	54.58	49.42	46.14	74.00	-27.86	peak
4	10630.970	13.73	39.33	53.72	47.97	47.31	74.00	-26.69	peak
5	11590.000	14.70	39.60	53.68	46.27	46.89	74.00	-27.11	peak
6	pp17385.000	18.09	40.37	54.38	44.01	48.09	68.20	-20.11	peak

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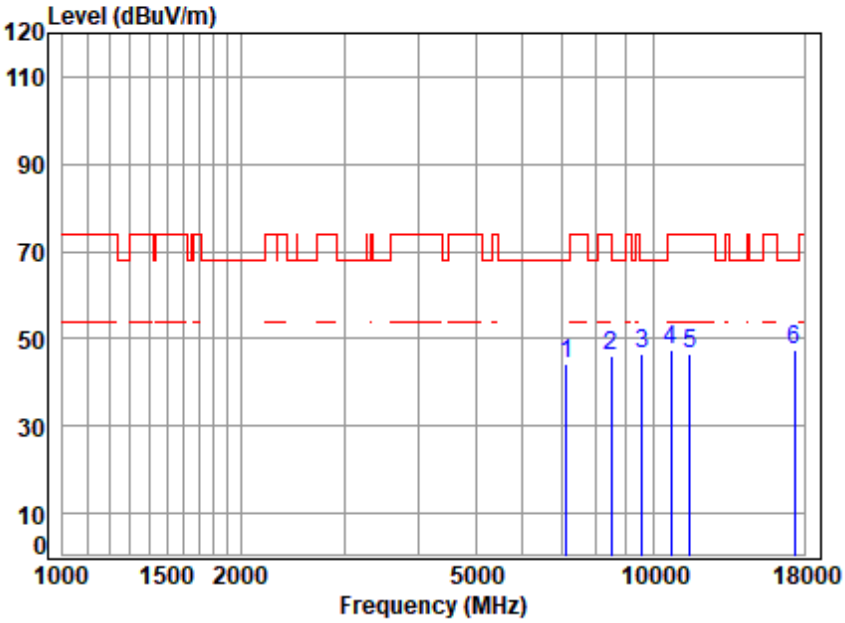
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5775 TX RSE
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7124.029	11.88	36.45	56.60	52.63	44.36	68.20	-23.84	peak
2	8488.119	12.23	38.32	55.46	50.99	46.08	74.00	-27.92	peak
3	9581.912	12.45	38.80	54.48	49.77	46.54	68.20	-21.66	peak
4	10696.140	14.02	39.40	53.68	47.93	47.67	74.00	-26.33	peak
5	11550.000	14.85	39.60	53.67	45.98	46.76	74.00	-27.24	peak
6	pp17325.000	17.92	40.25	54.36	43.52	47.33	68.20	-20.87	peak

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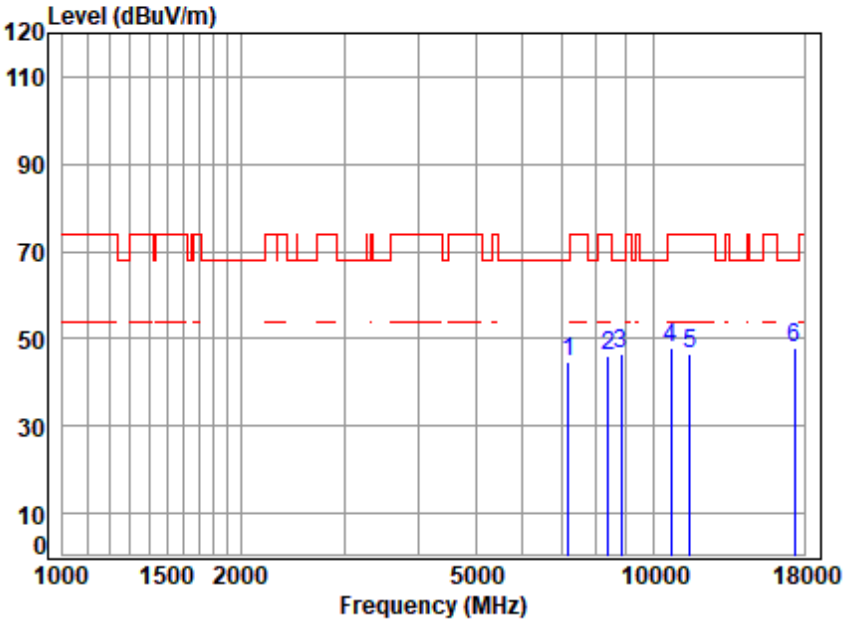
Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5775 TX RSE
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7189.636	11.57	36.58	56.55	53.14	44.74	68.20	-23.46	peak
2	8376.465	11.66	38.65	55.56	51.20	45.95	74.00	-28.05	peak
3	8832.090	12.24	38.50	55.15	51.03	46.62	68.20	-21.58	peak
4	10707.040	14.01	39.39	53.68	48.26	47.98	74.00	-26.02	peak
5	11550.000	14.85	39.60	53.67	45.94	46.72	74.00	-27.28	peak
6	pp17325.000	17.92	40.25	54.36	44.14	47.95	68.20	-20.25	peak

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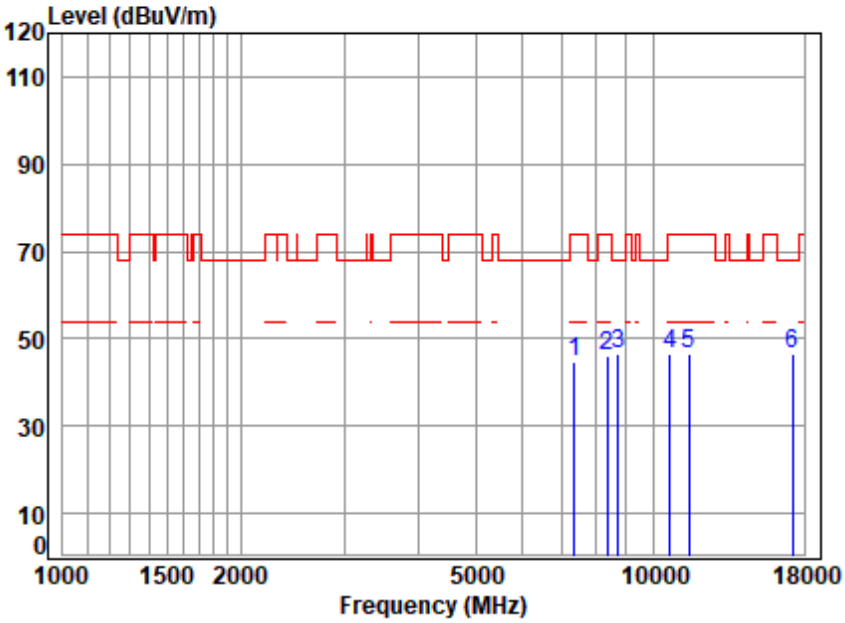
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5745 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7360.057	11.50	36.78	56.41	52.78	44.65	74.00	-29.35	peak
2	8350.908	11.69	38.70	55.58	51.40	46.21	74.00	-27.79	peak
3	8733.685	12.14	38.53	55.24	51.02	46.45	68.20	-21.75	peak
4	10652.650	13.83	39.35	53.71	47.27	46.74	74.00	-27.26	peak
5	11490.000	14.97	39.61	53.65	45.80	46.73	74.00	-27.27	peak
6	pp17235.000	17.83	40.01	54.35	43.22	46.71	68.20	-21.49	peak

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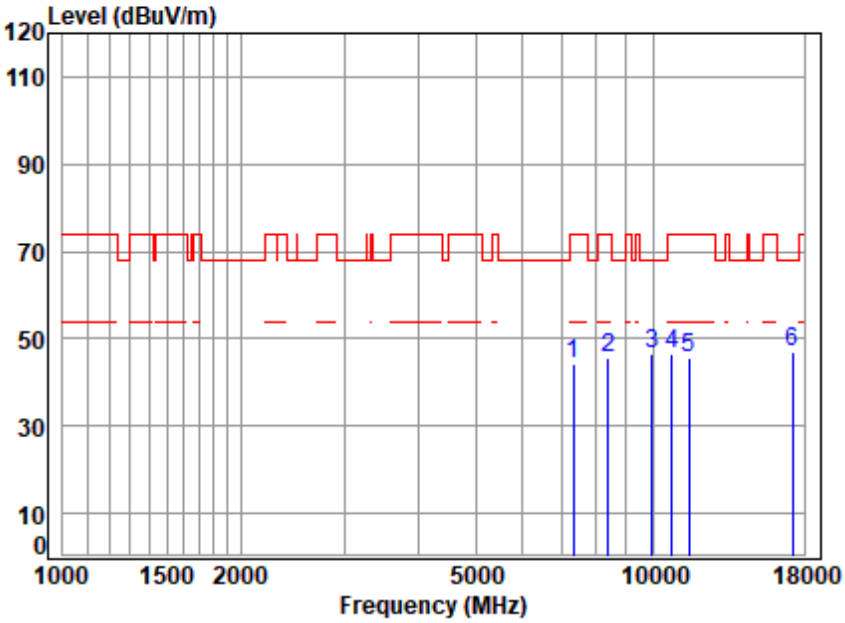
Test Mode: 17; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5745 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7330.131	11.51	36.76	56.44	52.27	44.10	74.00	-29.90	peak
2	8376.465	11.66	38.65	55.56	50.84	45.59	74.00	-28.41	peak
3	9939.788	12.88	38.90	54.15	48.92	46.55	68.20	-21.65	peak
4	10750.750	13.86	39.35	53.65	47.09	46.65	74.00	-27.35	peak
5	11490.000	14.97	39.61	53.65	44.48	45.41	74.00	-28.59	peak
6	pp17235.000	17.83	40.01	54.35	43.70	47.19	68.20	-21.01	peak

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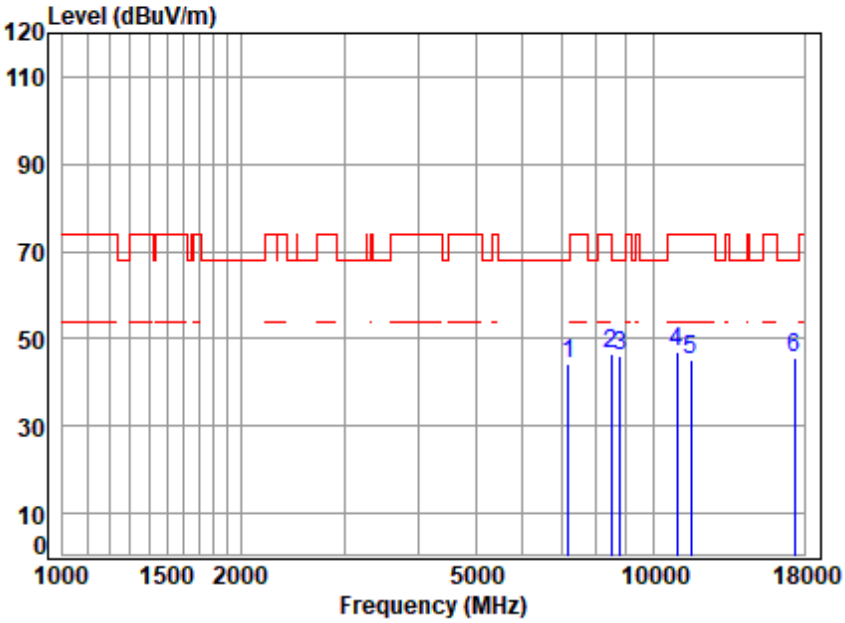
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5785 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7189.636	11.57	36.58	56.55	52.70	44.30	68.20	-23.90	peak
2	8488.119	12.23	38.32	55.46	51.48	46.57	74.00	-27.43	peak
3 pp	8787.224	12.23	38.50	55.19	50.47	46.01	68.20	-22.19	peak
4	10972.000	14.11	39.37	53.52	46.93	46.89	74.00	-27.11	peak
5	11570.000	14.78	39.60	53.67	44.54	45.25	74.00	-28.75	peak
6	17355.000	18.00	40.31	54.37	41.86	45.80	68.20	-22.40	peak

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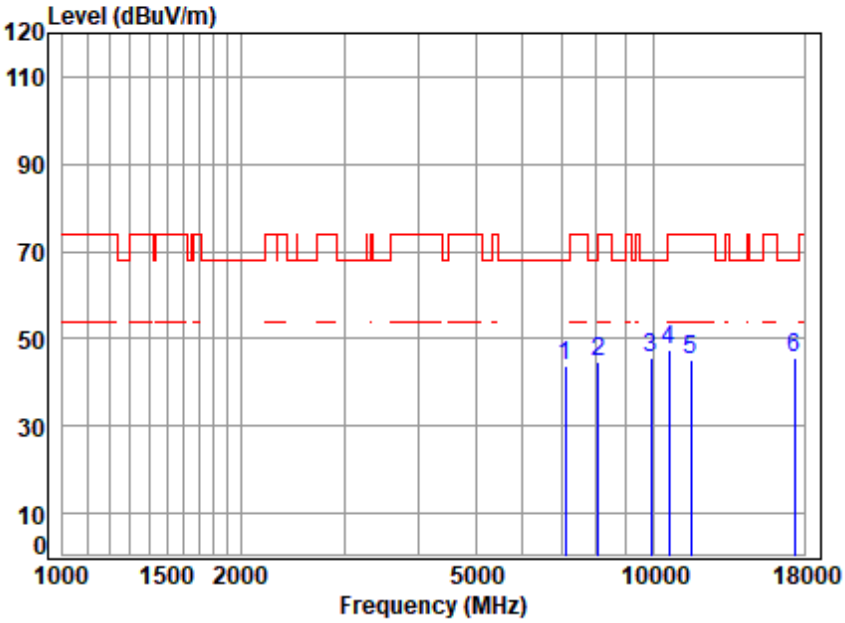
Test Mode: 17; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5785 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7095.063	11.96	36.39	56.62	51.99	43.72	68.20	-24.48	peak
2	8066.655	11.49	37.80	55.84	51.36	44.81	74.00	-29.19	peak
3	9899.373	12.80	38.89	54.19	48.06	45.56	68.20	-22.64	peak
4	10620.150	13.68	39.32	53.73	48.11	47.38	74.00	-26.62	peak
5	11570.000	14.78	39.60	53.67	44.39	45.10	74.00	-28.90	peak
6	pp17355.000	18.00	40.31	54.37	41.81	45.75	68.20	-22.45	peak

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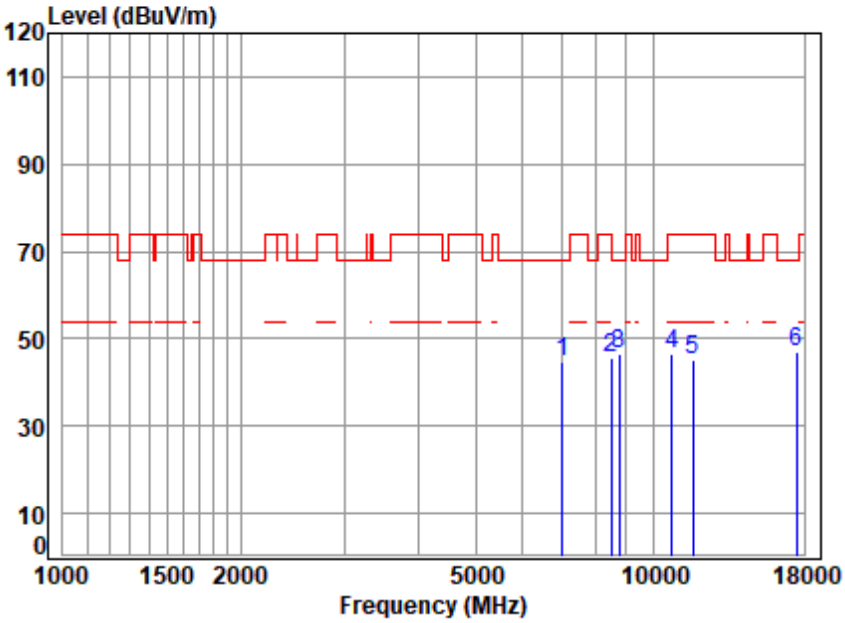
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5825 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7016.012	11.47	36.23	56.69	53.73	44.74	68.20	-23.46	peak
2	8488.119	12.23	38.32	55.46	50.35	45.44	74.00	-28.56	peak
3	8769.341	12.20	38.50	55.21	50.87	46.36	68.20	-21.84	peak
4	10761.710	13.82	39.34	53.64	46.85	46.37	74.00	-27.63	peak
5	11650.000	14.69	39.55	53.69	44.67	45.22	74.00	-28.78	peak
6	pp17475.000	18.35	40.78	54.40	42.28	47.01	68.20	-21.19	peak

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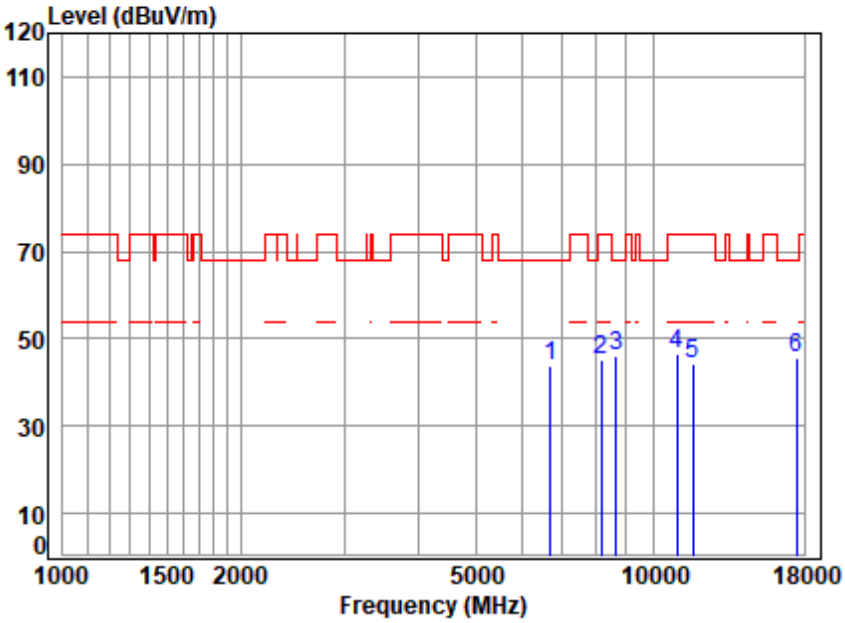
Test Mode: 17; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5825 TX RSE
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6708.517	11.41	35.45	56.76	53.67	43.77	68.20	-24.43	peak
2	8157.544	11.52	37.92	55.76	51.38	45.06	74.00	-28.94	peak
3 pp	8662.807	12.04	38.45	55.30	51.06	46.25	68.20	-21.95	peak
4	10949.680	14.06	39.35	53.53	46.44	46.32	74.00	-27.68	peak
5	11650.000	14.69	39.55	53.69	43.89	44.44	74.00	-29.56	peak
6	17475.000	18.35	40.78	54.40	41.10	45.83	68.20	-22.37	peak

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7.5 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
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

*(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.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

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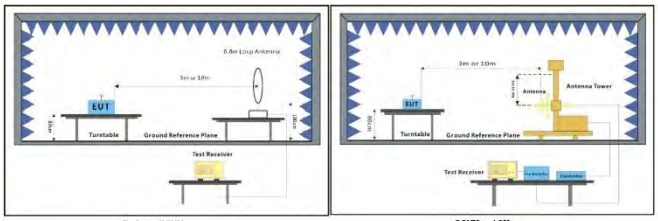
7.5.2 Test Mode Description

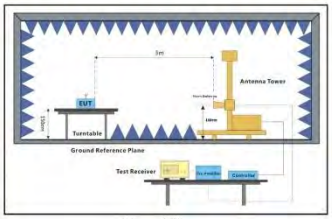
Pre-scan / Final test	Mode Code	Description
Final test	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



Below 30MHz

30MHz~1GHz



Above 1GHz

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7.5.4 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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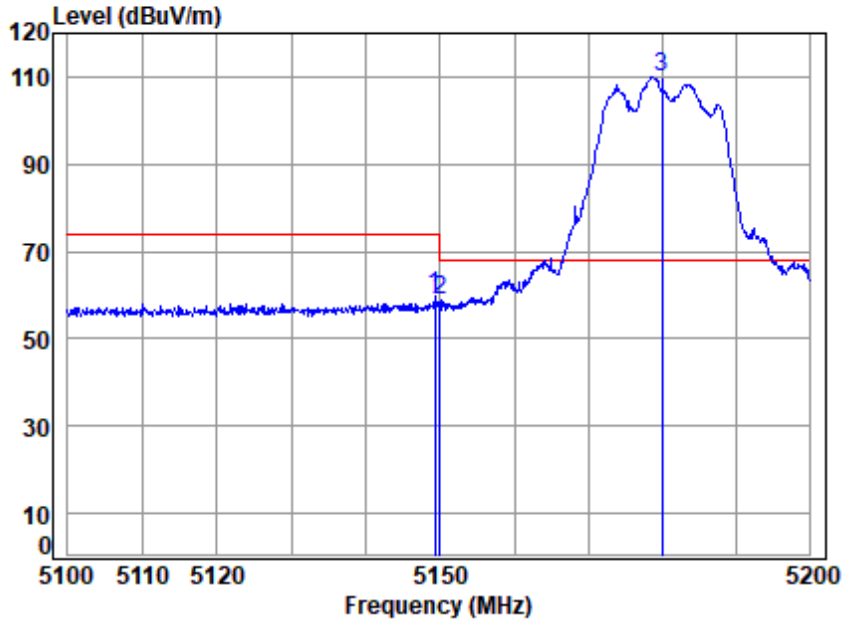
Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5180 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.257	10.14	32.40	30.84	48.09	59.79	74.00	-14.21	peak
2	5149.980	10.14	32.40	30.84	47.07	58.77	74.00	-15.23	peak
3 pp	5180.000	10.25	32.46	30.83	98.10	109.98	68.20	41.78	peak

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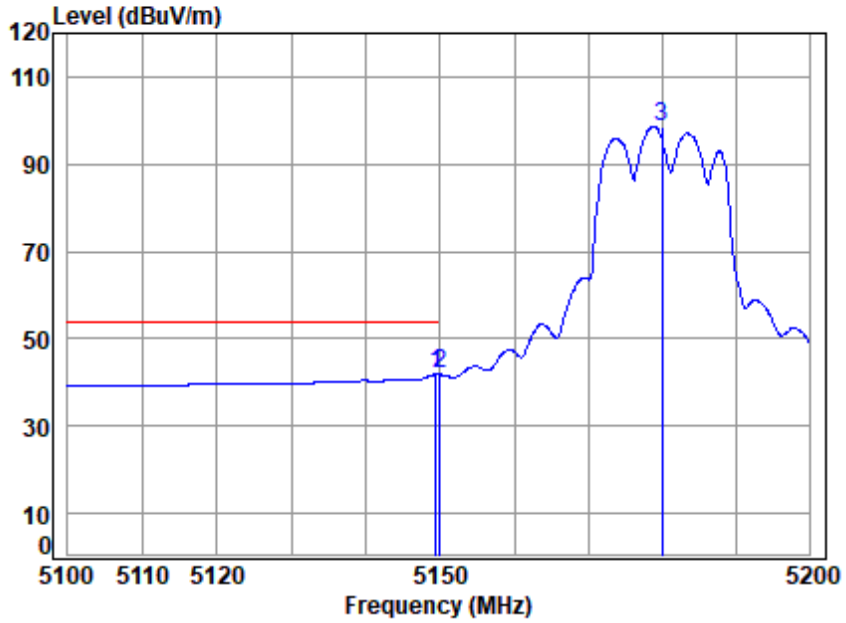

Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5180 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.458	10.14	32.40	30.84	30.18	41.88	54.00	-12.12	Average
2 pp	5149.980	10.14	32.40	30.84	30.19	41.89	54.00	-12.11	Average
3	5180.000	10.25	32.46	30.83	86.71	98.59	------	------	Average

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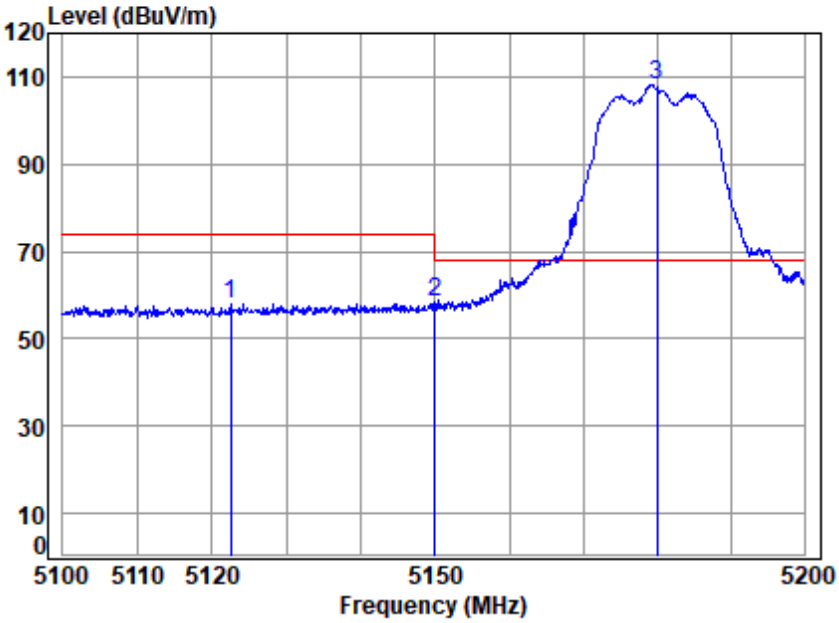
Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5180 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5122.530	10.04	32.35	30.85	46.57	58.11	74.00	-15.89	peak
2	5149.980	10.14	32.40	30.84	46.57	58.27	74.00	-15.73	peak
3 pp	5180.000	10.25	32.46	30.83	96.32	108.20	68.20	40.00	peak

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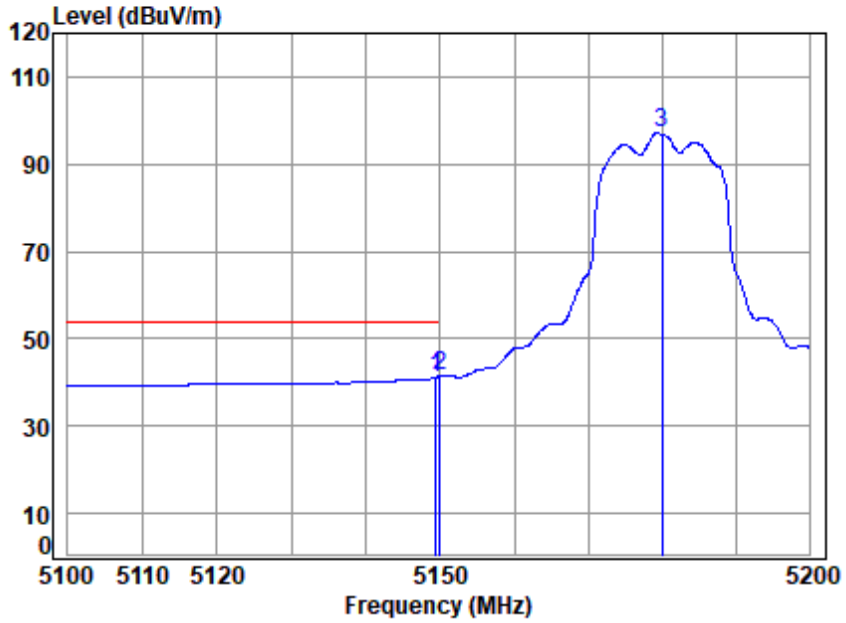
Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5180 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.458	10.14	32.40	30.84	29.50	41.20	54.00	-12.80	Average
2 pp	5149.980	10.14	32.40	30.84	29.78	41.48	54.00	-12.52	Average
3	5180.000	10.25	32.46	30.83	85.31	97.19	------	------	Average

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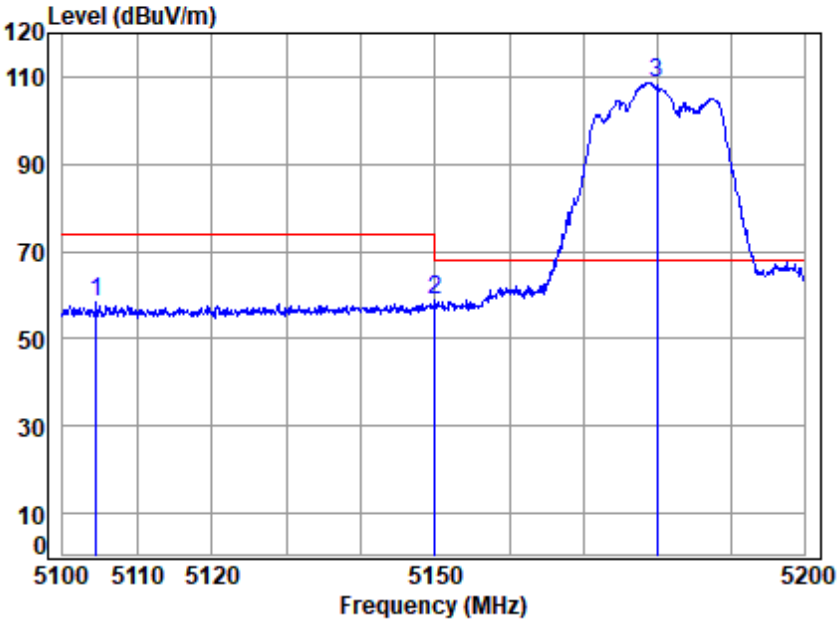
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5180 Band edge
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5104.458	9.97	32.31	30.86	46.89	58.31	74.00	-15.69	peak
2	5149.980	10.14	32.40	30.84	47.14	58.84	74.00	-15.16	peak
3 pp	5180.000	10.25	32.46	30.83	96.92	108.80	68.20	40.60	peak

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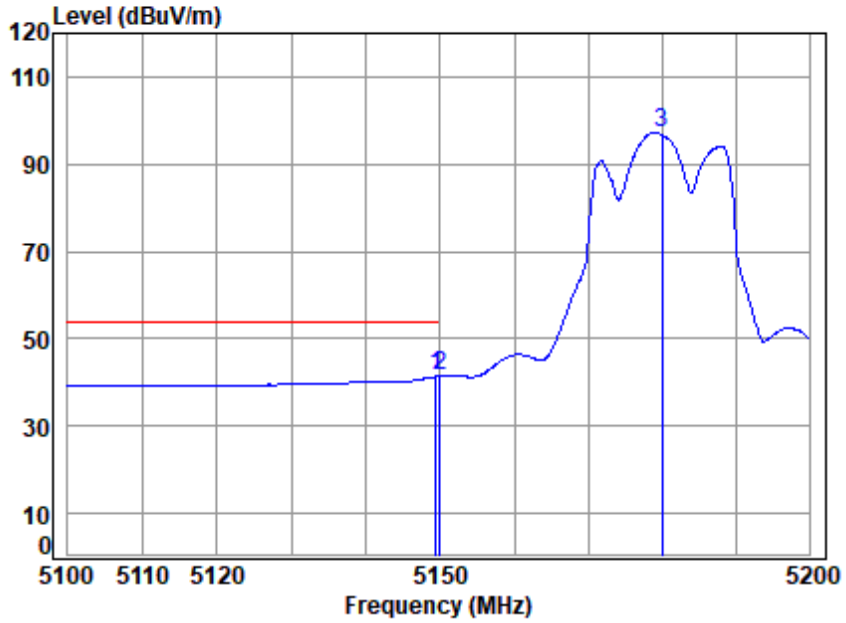
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5180 Band edge
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.458	10.14	32.40	30.84	29.66	41.36	54.00	-12.64	Average
2 pp	5149.980	10.14	32.40	30.84	29.82	41.52	54.00	-12.48	Average
3	5180.000	10.25	32.46	30.83	85.35	97.23	------	------	Average

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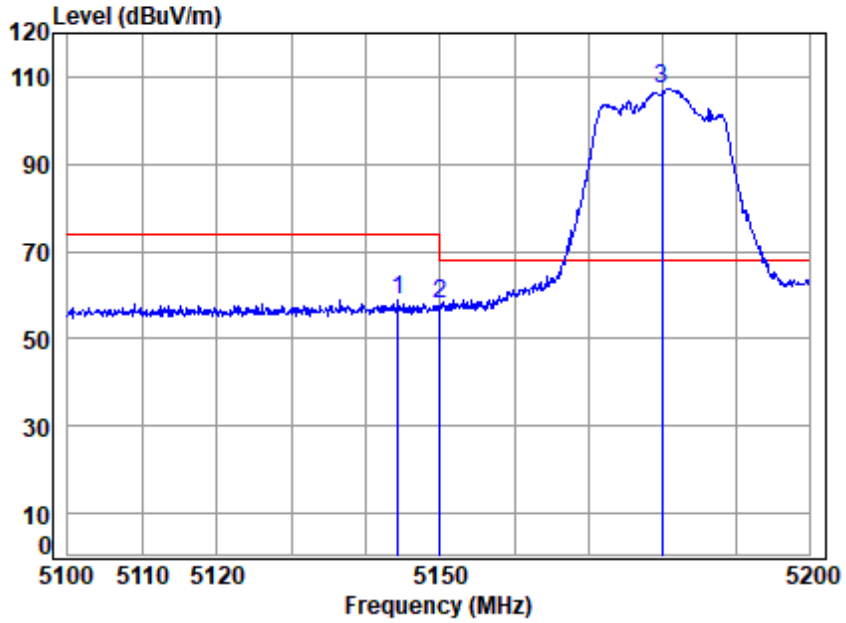
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5180 Band edge
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5144.360	10.12	32.39	30.84	47.37	59.04	74.00	-14.96	peak
2	5149.980	10.14	32.40	30.84	46.42	58.12	74.00	-15.88	peak
3 pp	5180.000	10.25	32.46	30.83	95.31	107.19	68.20	38.99	peak

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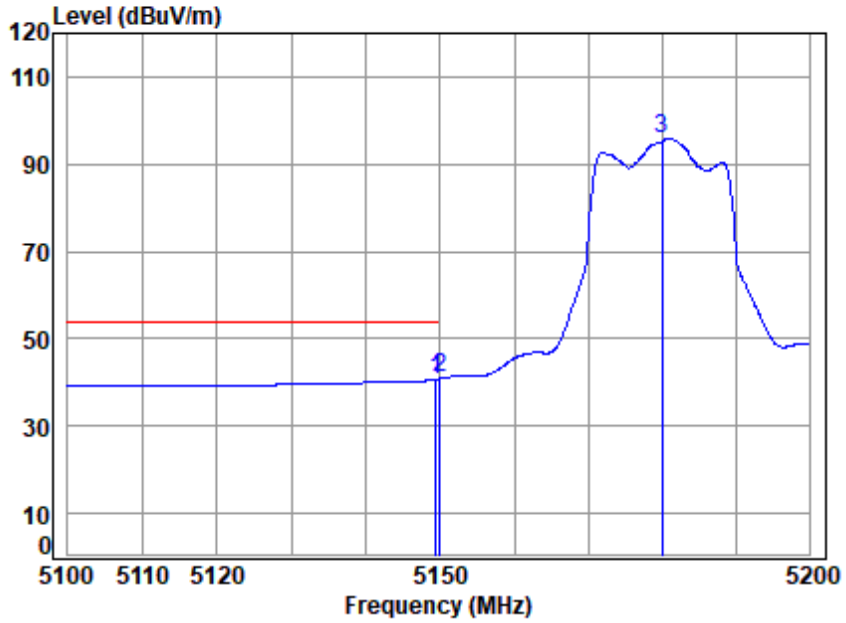
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5180 Band edge
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.458	10.14	32.40	30.84	28.99	40.69	54.00	-13.31	Average
2 pp	5149.980	10.14	32.40	30.84	29.25	40.95	54.00	-13.05	Average
3	5180.000	10.25	32.46	30.83	83.90	95.78	------	------	Average

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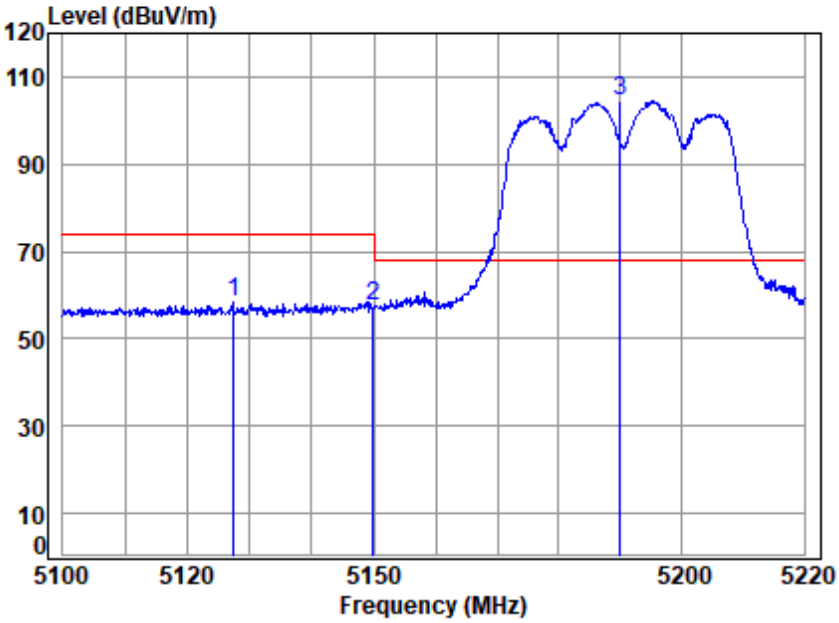
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5190 Band edge
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5127.354	10.05	32.35	30.85	47.02	58.57	74.00	-15.43	peak
2	5149.980	10.14	32.40	30.84	45.78	57.48	74.00	-16.52	peak
3 pp	5190.000	10.29	32.48	30.82	92.43	104.38	68.20	36.18	peak

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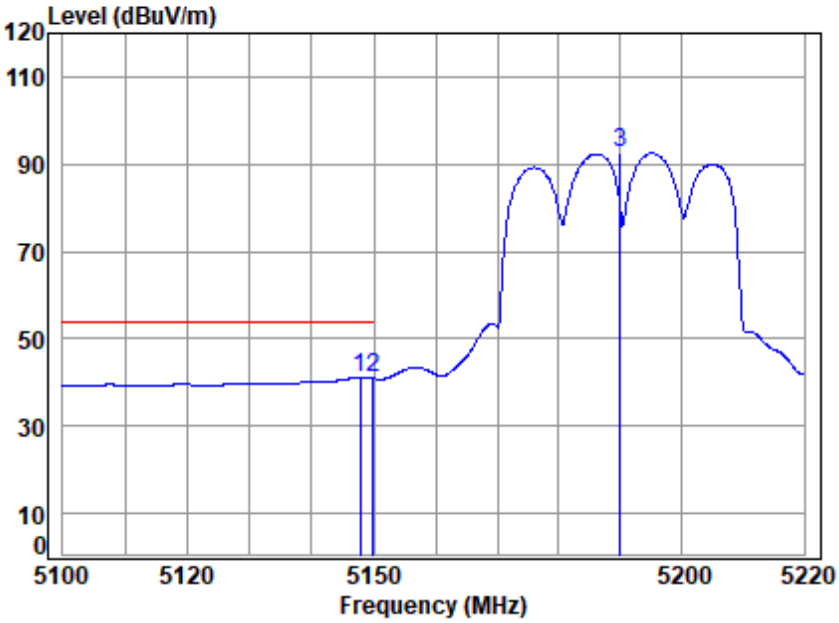
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5190 Band edge
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5147.785	10.13	32.40	30.84	29.46	41.15	54.00	-12.85	Average
2	5149.980	10.14	32.40	30.84	29.24	40.94	54.00	-13.06	Average
3	5190.000	10.29	32.48	30.82	80.51	92.46	------	------	Average

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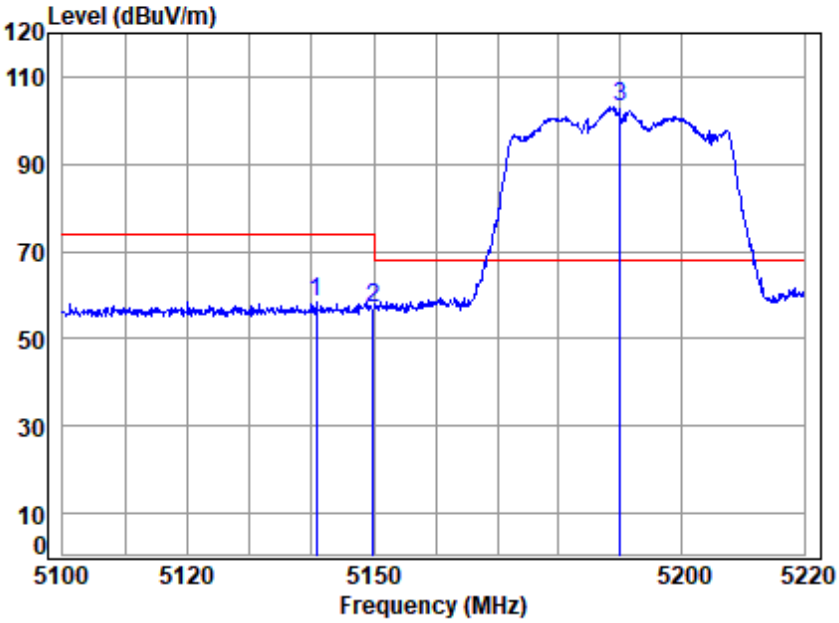
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5190 Band edge
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5140.727	10.10	32.38	30.84	46.88	58.52	74.00	-15.48	peak
2	5149.980	10.14	32.40	30.84	45.37	57.07	74.00	-16.93	peak
3 pp	5190.000	10.29	32.48	30.82	90.99	102.94	68.20	34.74	peak

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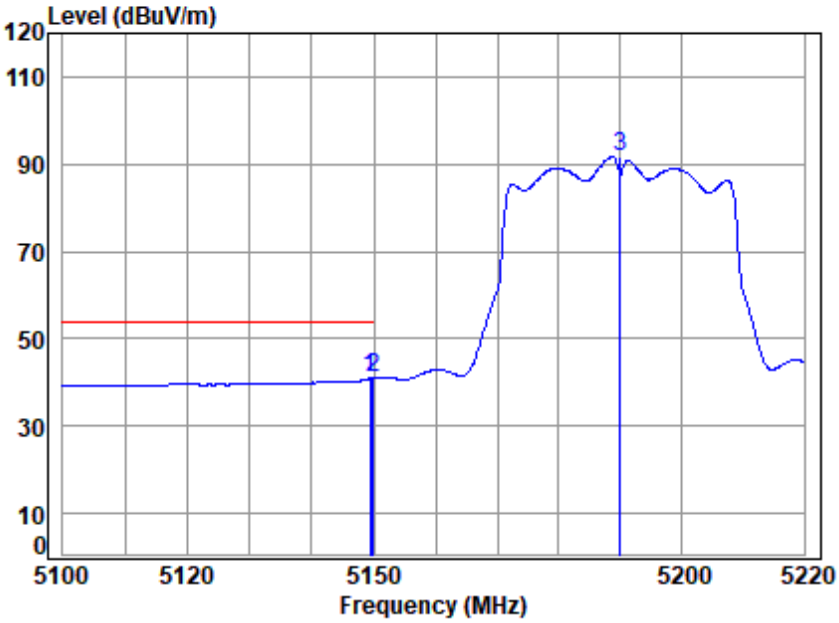
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5190 Band edge
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.461	10.14	32.40	30.84	29.22	40.92	54.00	-13.08	Average
2 pp	5149.980	10.14	32.40	30.84	29.40	41.10	54.00	-12.90	Average
3	5190.000	10.29	32.48	30.82	79.76	91.71	------	------	Average

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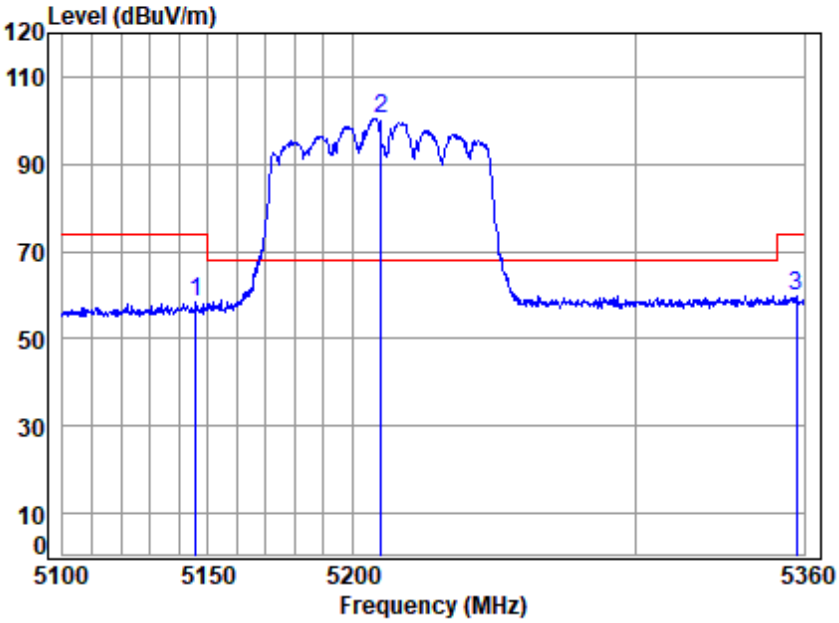
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5210 Band edge
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5145.851	10.12	32.39	30.84	46.91	58.58	74.00	-15.42	peak
2 pp	5210.000	10.32	32.52	30.82	88.49	100.51	68.20	32.31	peak
3	5357.335	10.47	32.80	30.76	47.23	59.74	74.00	-14.26	peak

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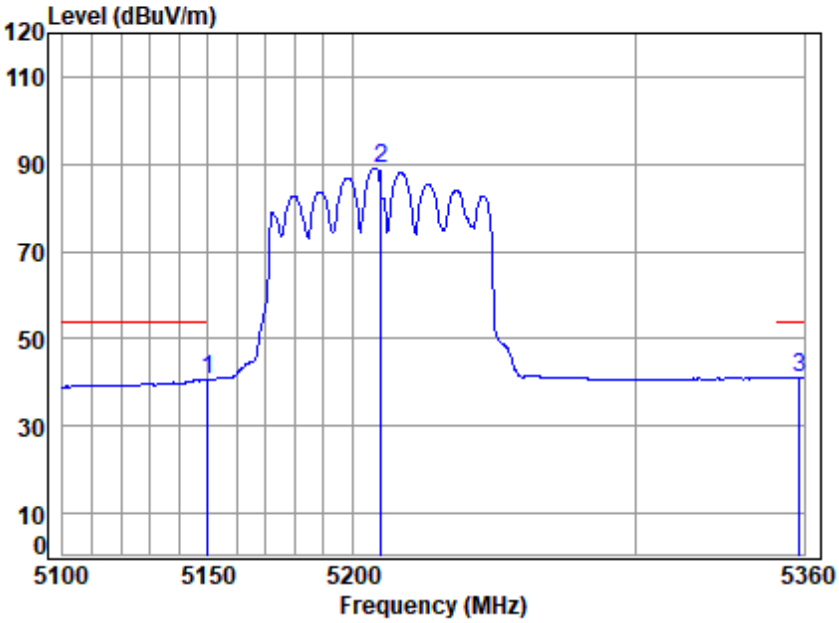
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5210 Band edge
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.690	10.14	32.40	30.84	28.78	40.48	54.00	-13.52	Average
2	5210.000	10.32	32.52	30.82	77.06	89.08	------	------	Average
3 pp	5358.401	10.48	32.80	30.76	28.59	41.11	54.00	-12.89	Average

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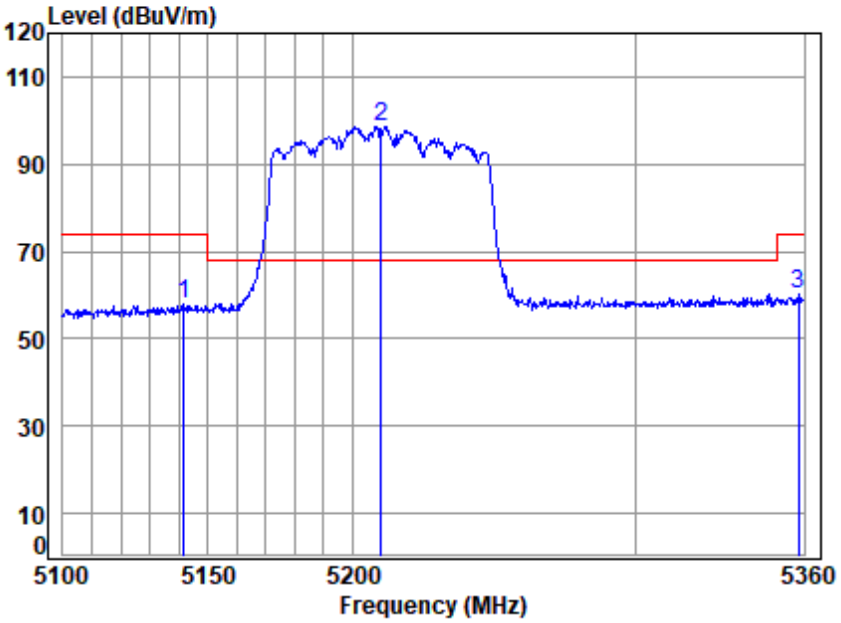
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5210 Band edge
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5141.503	10.11	32.38	30.84	46.15	57.80	74.00	-16.20	peak
2 pp	5210.000	10.32	32.52	30.82	86.70	98.72	68.20	30.52	peak
3	5357.868	10.48	32.80	30.76	47.83	60.35	74.00	-13.65	peak

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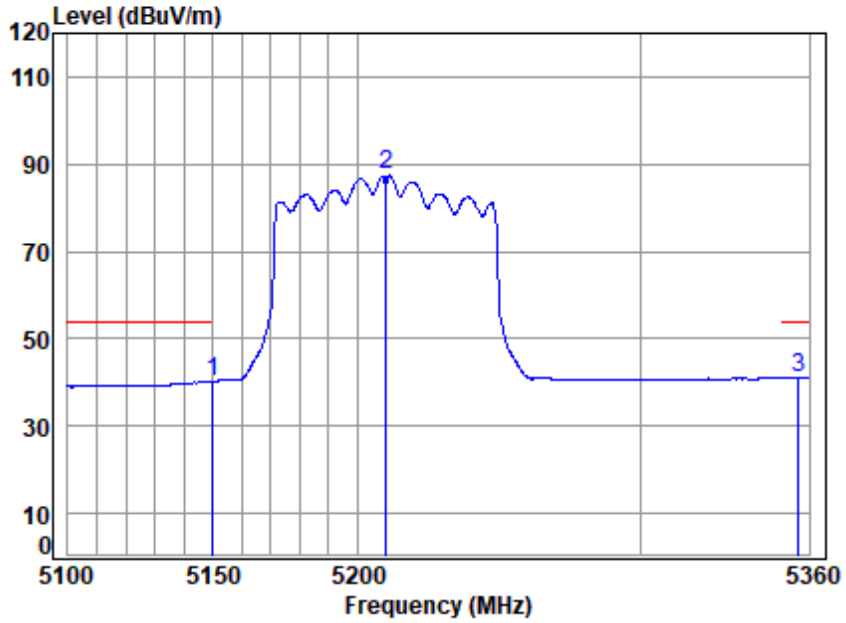
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5210 Band edge
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.947	10.14	32.40	30.84	28.52	40.22	54.00	-13.78	Average
2	5210.000	10.32	32.52	30.82	75.42	87.44	------	------	Average
3 pp	5356.270	10.47	32.80	30.76	28.60	41.11	54.00	-12.89	Average

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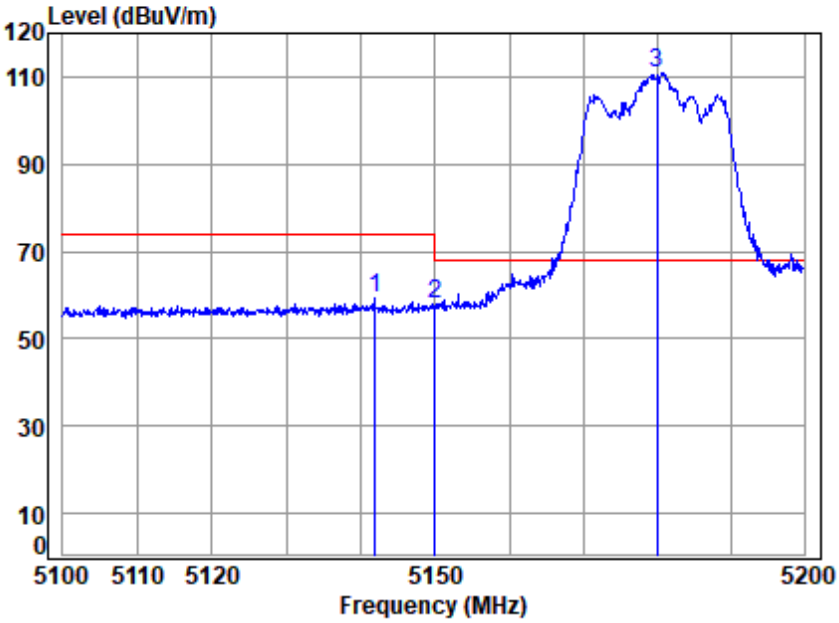
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5180 Band edge
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5141.863	10.11	32.38	30.84	47.74	59.39	74.00	-14.61	peak
2	5149.980	10.14	32.40	30.84	46.39	58.09	74.00	-15.91	peak
3 pp	5180.000	10.25	32.46	30.83	99.04	110.92	68.20	42.72	peak

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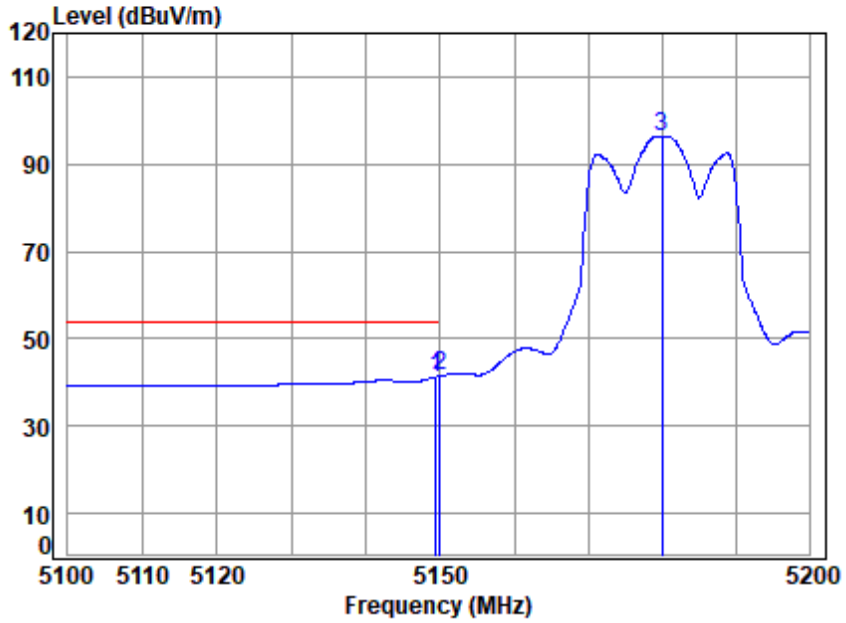
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5180 Band edge
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.458	10.14	32.40	30.84	29.58	41.28	54.00	-12.72	Average
2 pp	5149.980	10.14	32.40	30.84	29.86	41.56	54.00	-12.44	Average
3	5180.000	10.25	32.46	30.83	84.41	96.29	------	------	Average

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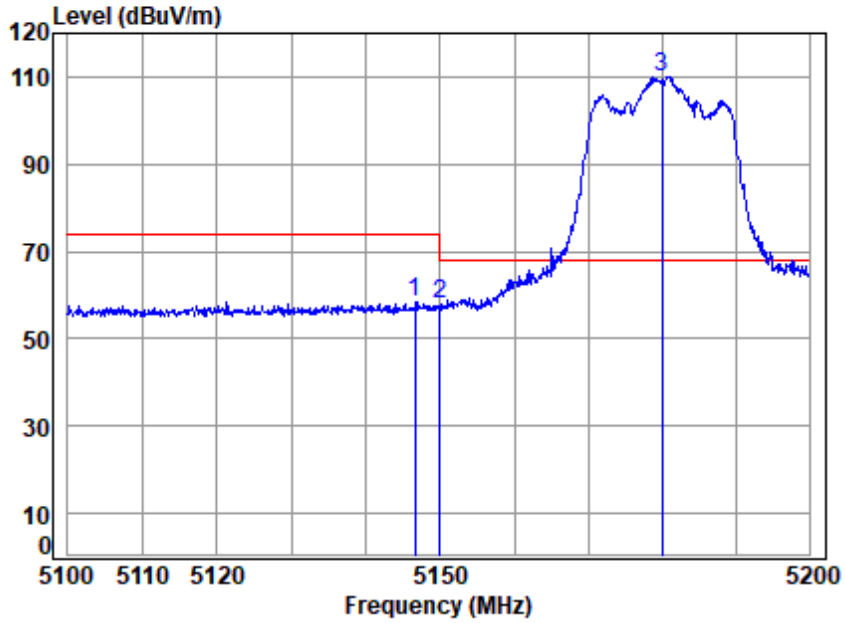
Test Mode: 14; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5180 Band edge
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.658	10.13	32.39	30.84	46.88	58.56	74.00	-15.44	peak
2	5149.980	10.14	32.40	30.84	46.17	57.87	74.00	-16.13	peak
3 pp	5180.000	10.25	32.46	30.83	98.13	110.01	68.20	41.81	peak

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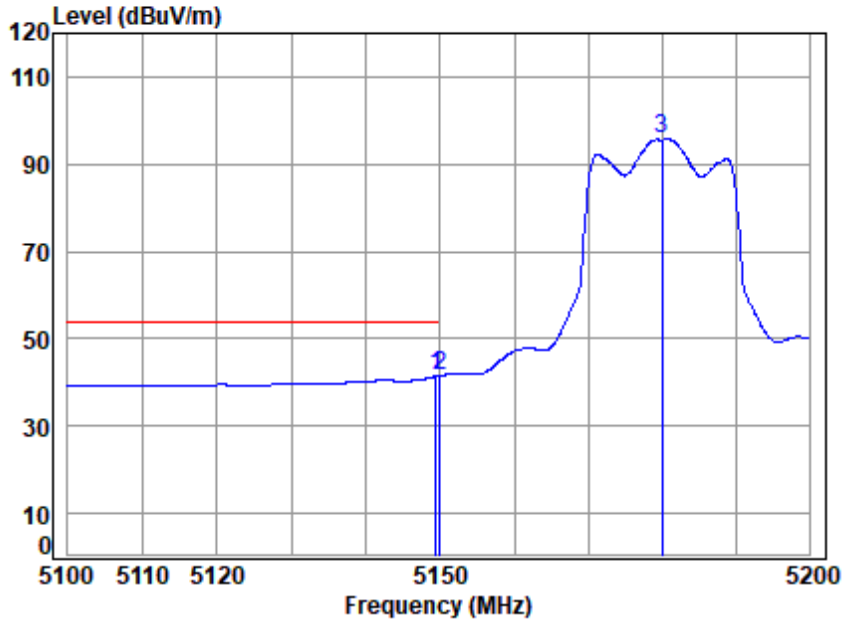
Test Mode: 14; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5180 Band edge
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.458	10.14	32.40	30.84	29.72	41.42	54.00	-12.58	Average
2 pp	5149.980	10.14	32.40	30.84	29.98	41.68	54.00	-12.32	Average
3	5180.000	10.25	32.46	30.83	83.85	95.73	------	------	Average

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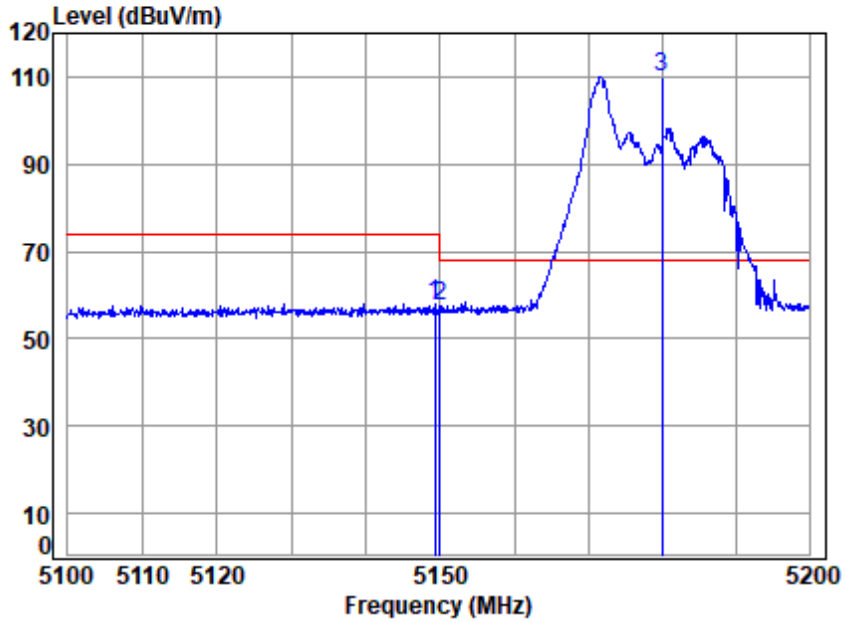
Test Mode: 14; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5180 Band edge
: 5GWIFI 11AX20_RU26_0

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.257	10.14	32.40	30.84	46.43	58.13	74.00	-15.87	peak
2	5149.980	10.14	32.40	30.84	45.59	57.29	74.00	-16.71	peak
3 pp	5180.000	10.25	32.46	30.83	98.16	110.04	68.20	41.84	peak

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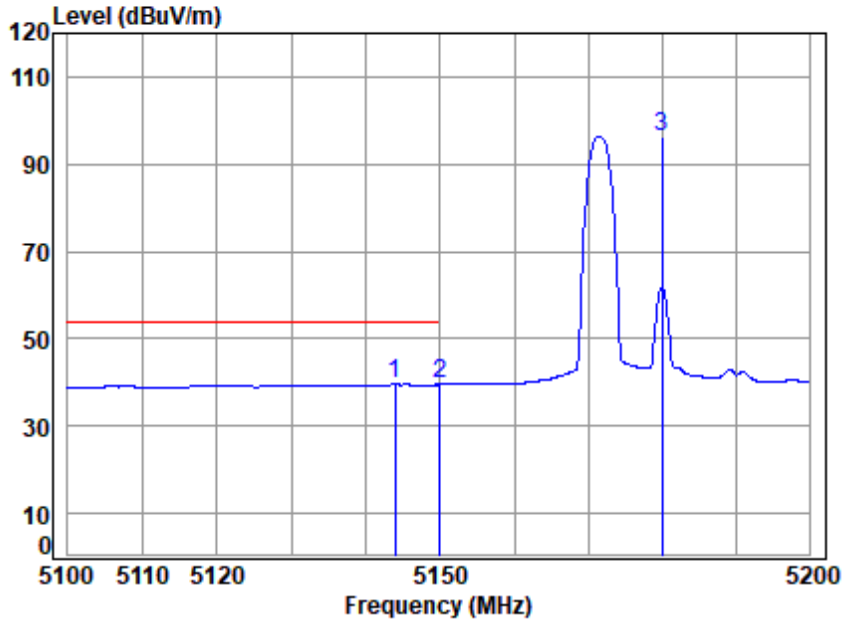
Test Mode: 14; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5180 Band edge
: 5GWIFI 11AX20_RU26_0

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5143.960	10.12	32.39	30.84	27.84	39.51	54.00	-14.49	Average
2	5149.980	10.14	32.40	30.84	27.79	39.49	54.00	-14.51	Average
3	5180.000	10.25	32.46	30.83	84.37	96.25	------	------	Average

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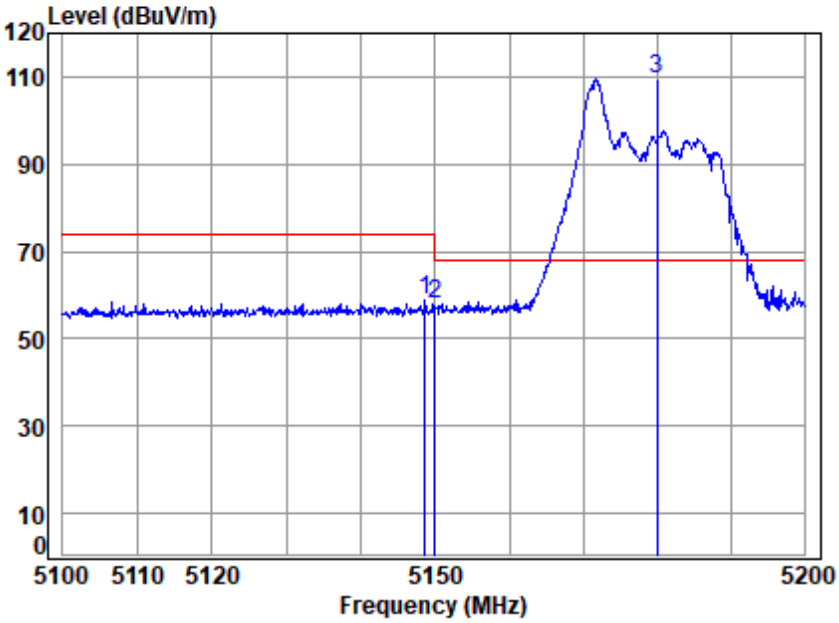
Test Mode: 14; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5180 Band edge
: 5GWIFI 11AX20_RU26_0

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.657	10.13	32.40	30.84	47.09	58.78	74.00	-15.22	peak
2	5149.980	10.14	32.40	30.84	46.33	58.03	74.00	-15.97	peak
3 pp	5180.000	10.25	32.46	30.83	97.61	109.49	68.20	41.29	peak

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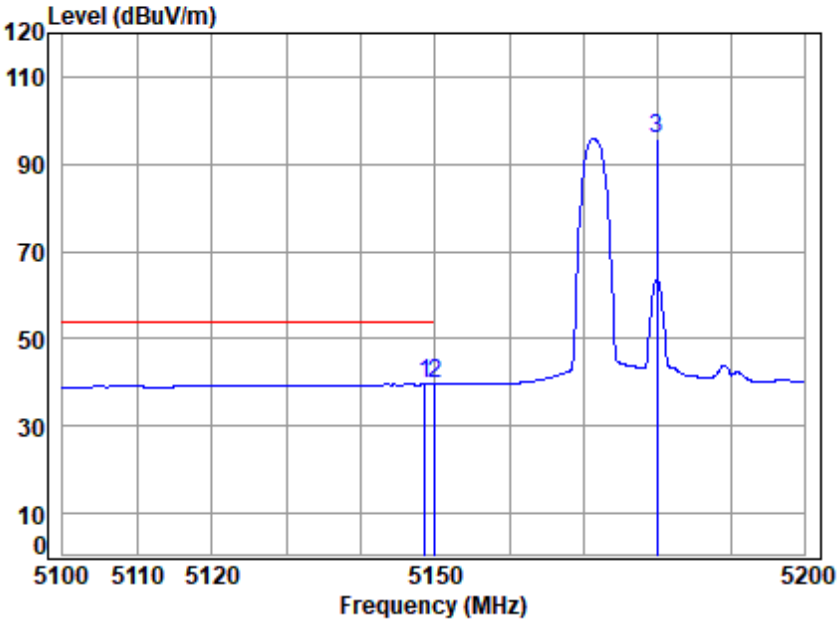
Test Mode: 14; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5180 Band edge
: 5GWIFI 11AX20_RU26_0

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.657	10.13	32.40	30.84	27.82	39.51	54.00	-14.49	Average
2 pp	5149.980	10.14	32.40	30.84	27.82	39.52	54.00	-14.48	Average
3	5180.000	10.25	32.46	30.83	83.86	95.74	------	------	Average

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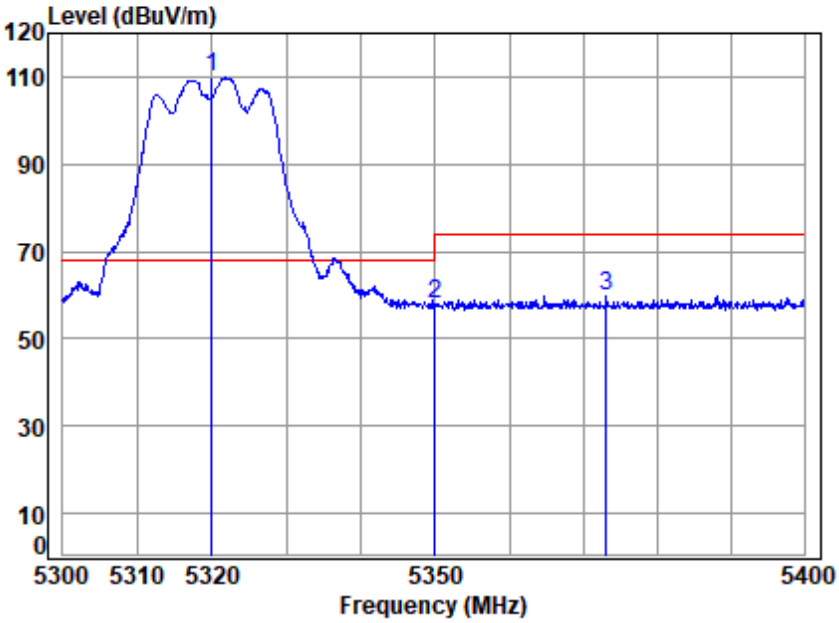
Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5320 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	97.76	110.08	68.20	41.88	peak
2	5350.020	10.45	32.80	30.76	45.43	57.92	74.00	-16.08	peak
3	5373.117	10.53	32.80	30.75	47.21	59.79	74.00	-14.21	peak

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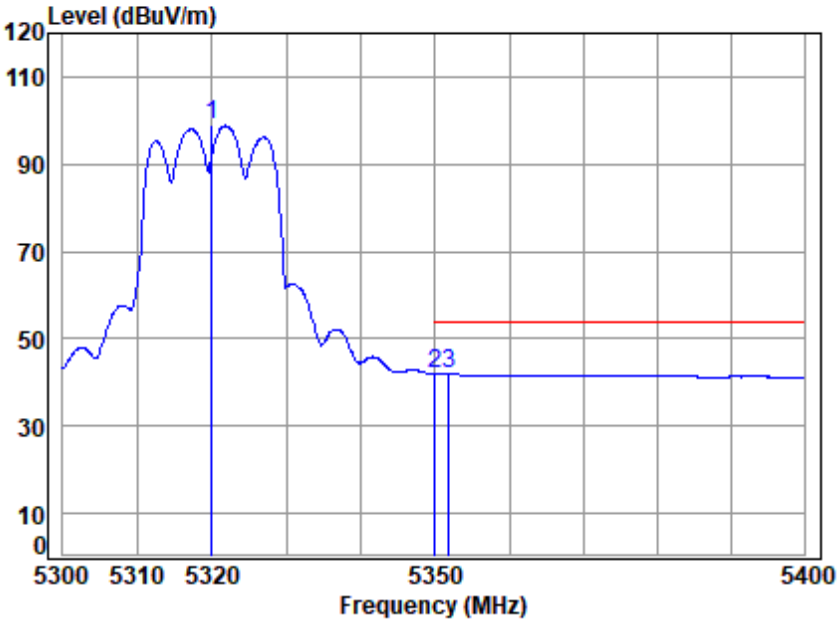
Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5320 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	86.48	98.80	------	------	Average
2	5350.020	10.45	32.80	30.76	29.33	41.82	54.00	-12.18	Average
3 pp	5351.867	10.46	32.80	30.76	29.47	41.97	54.00	-12.03	Average

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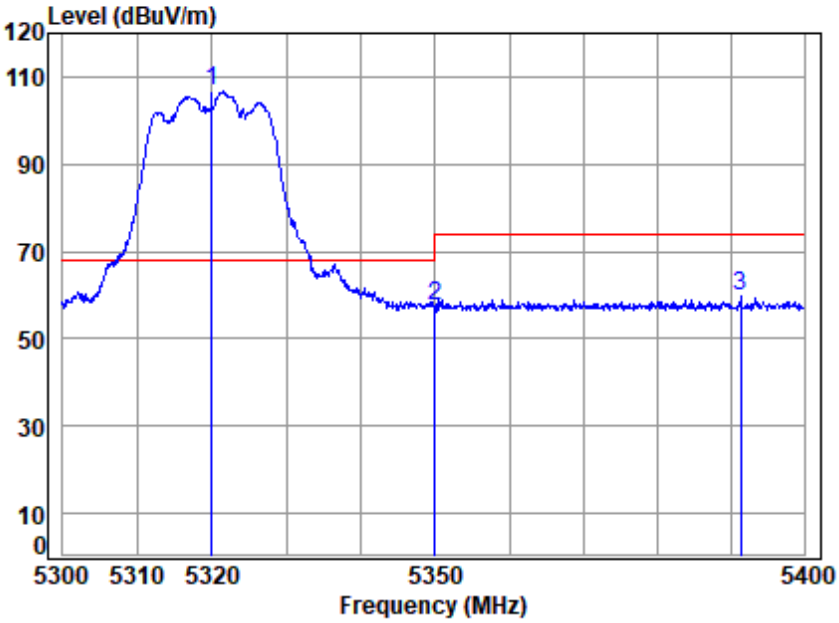
Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5320 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	94.26	106.58	68.20	38.38	peak
2	5350.020	10.45	32.80	30.76	44.86	57.35	74.00	-16.65	peak
3	5391.427	10.59	32.80	30.74	46.92	59.57	74.00	-14.43	peak

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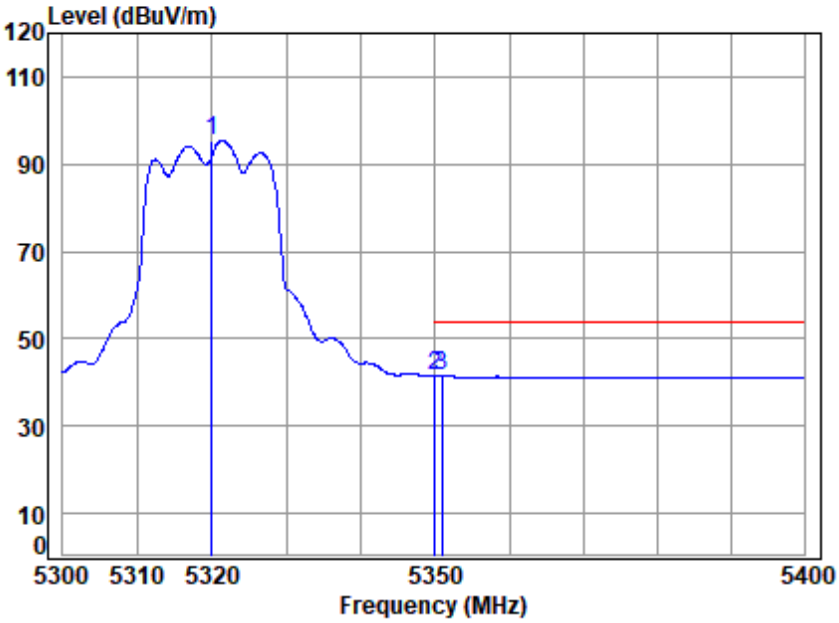
Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5320 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	83.02	95.34	------	------	Average
2	5350.020	10.45	32.80	30.76	28.84	41.33	54.00	-12.67	Average
3 pp	5350.966	10.45	32.80	30.76	28.87	41.36	54.00	-12.64	Average

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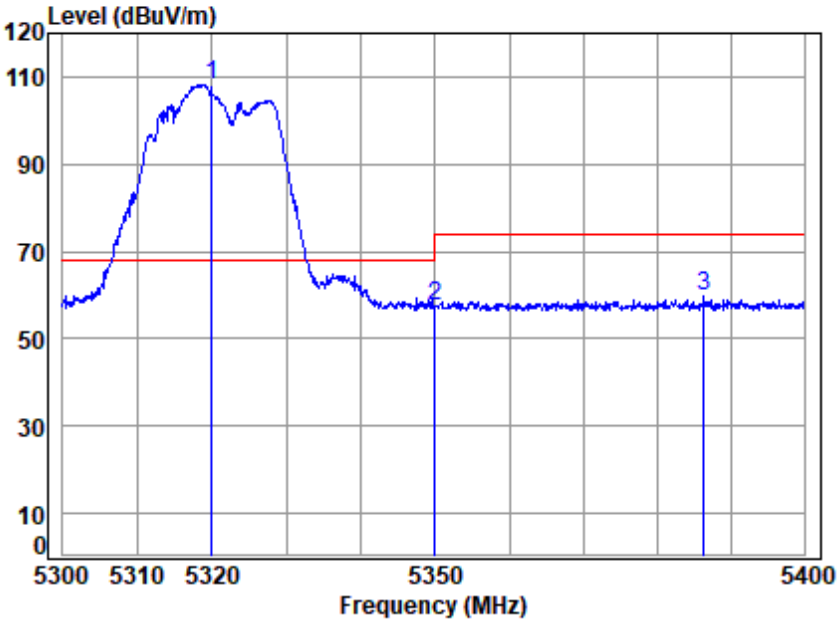
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5320 Band edge
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	95.99	108.31	68.20	40.11	peak
2	5350.020	10.45	32.80	30.76	45.13	57.62	74.00	-16.38	peak
3	5386.391	10.57	32.80	30.75	46.98	59.60	74.00	-14.40	peak

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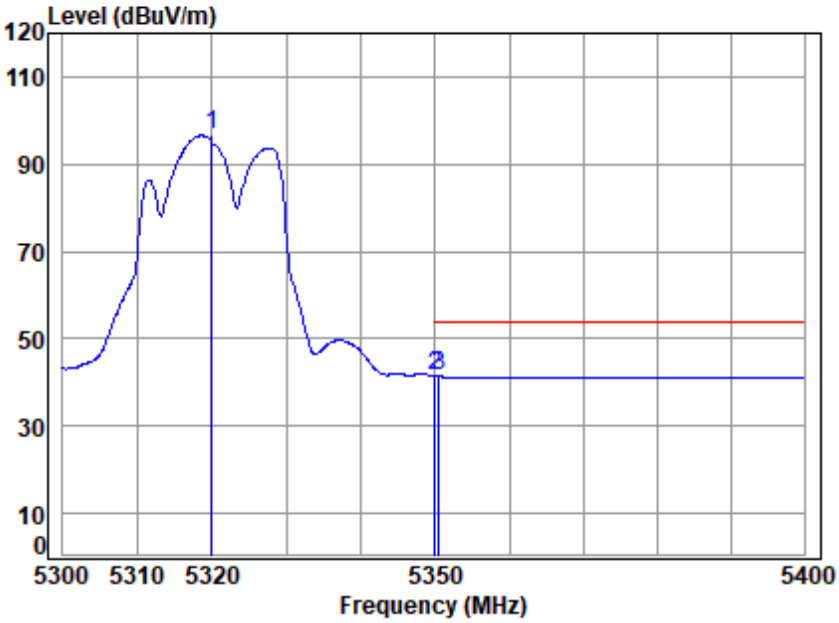

Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5320 Band edge
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	84.34	96.66	------	------	Average
2 pp	5350.020	10.45	32.80	30.76	29.06	41.55	54.00	-12.45	Average
3	5350.566	10.45	32.80	30.76	28.92	41.41	54.00	-12.59	Average

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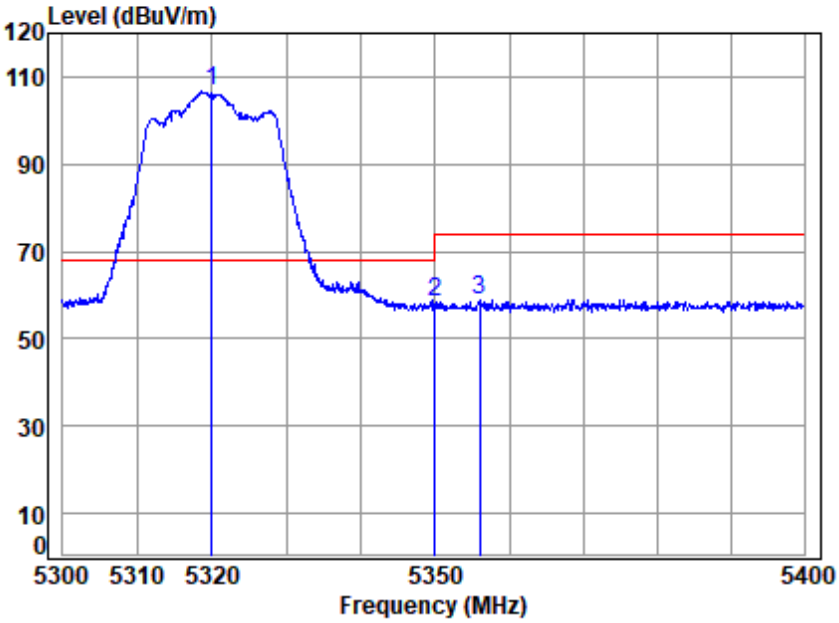
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5320 Band edge
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	94.33	106.65	68.20	38.45	peak
2	5350.020	10.45	32.80	30.76	45.75	58.24	74.00	-15.76	peak
3	5356.070	10.47	32.80	30.76	46.40	58.91	74.00	-15.09	peak

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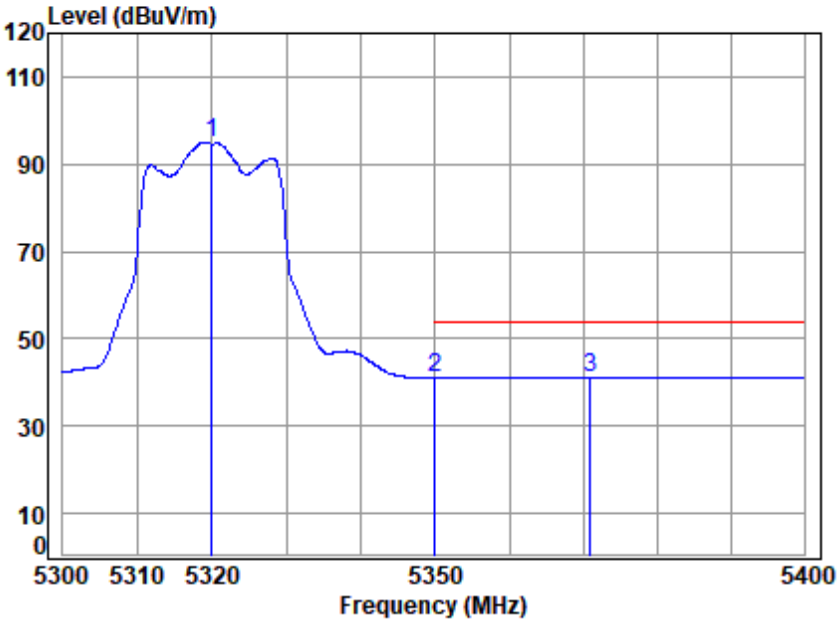
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5320 Band edge
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	82.76	95.08	------	------	Average
2 pp	5350.020	10.45	32.80	30.76	28.72	41.21	54.00	-12.79	Average
3	5371.008	10.52	32.80	30.75	28.55	41.12	54.00	-12.88	Average

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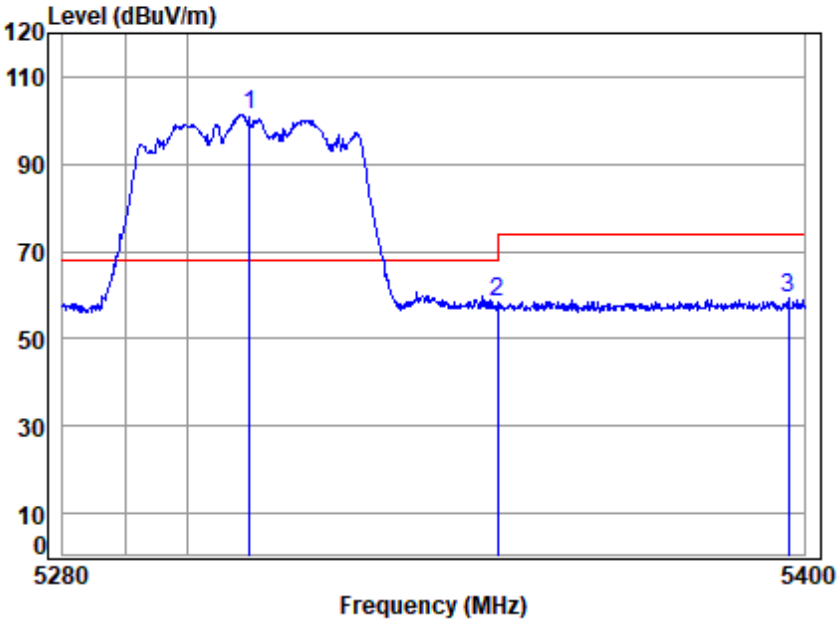
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5310 Band edge
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5310.000	10.31	32.72	30.78	89.08	101.33	68.20	33.13	peak
2	5350.020	10.45	32.80	30.76	46.01	58.50	74.00	-15.50	peak
3	5397.452	10.61	32.80	30.74	46.81	59.48	74.00	-14.52	peak

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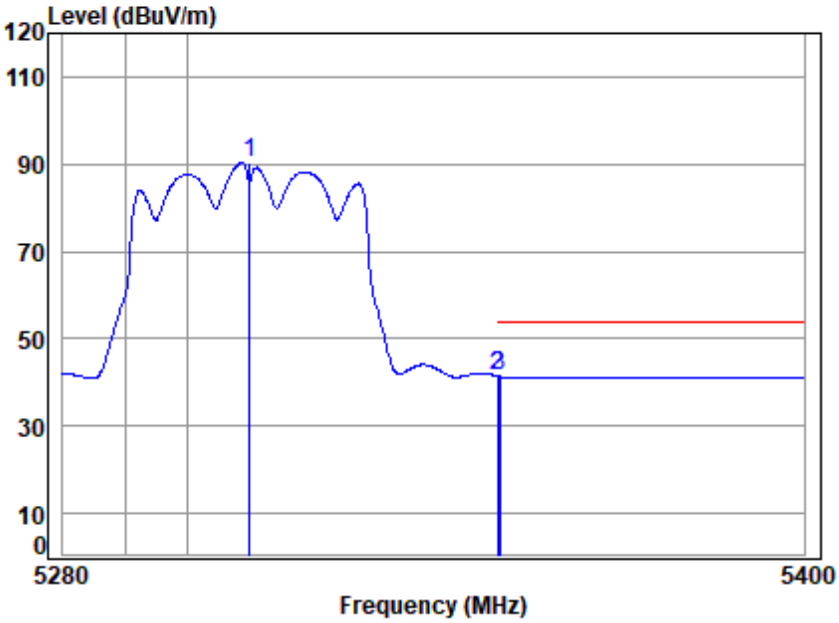
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5310 Band edge
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	10.31	32.72	30.78	78.07	90.32	------	------	Average
2 pp	5350.020	10.45	32.80	30.76	29.02	41.51	54.00	-12.49	Average
3	5350.474	10.45	32.80	30.76	28.81	41.30	54.00	-12.70	Average

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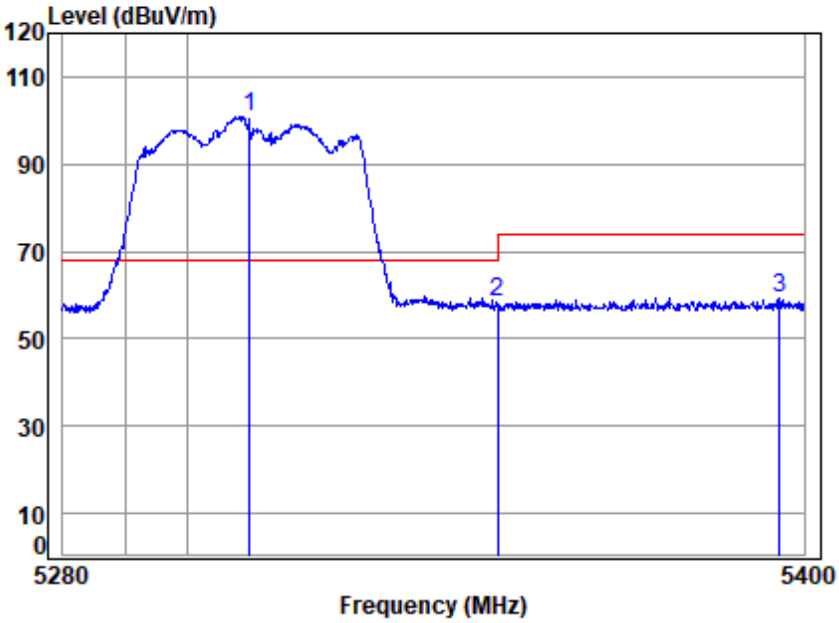
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5310 Band edge
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5310.000	10.31	32.72	30.78	88.68	100.93	68.20	32.73	peak
2	5350.020	10.45	32.80	30.76	46.11	58.60	74.00	-15.40	peak
3	5395.997	10.61	32.80	30.74	46.79	59.46	74.00	-14.54	peak

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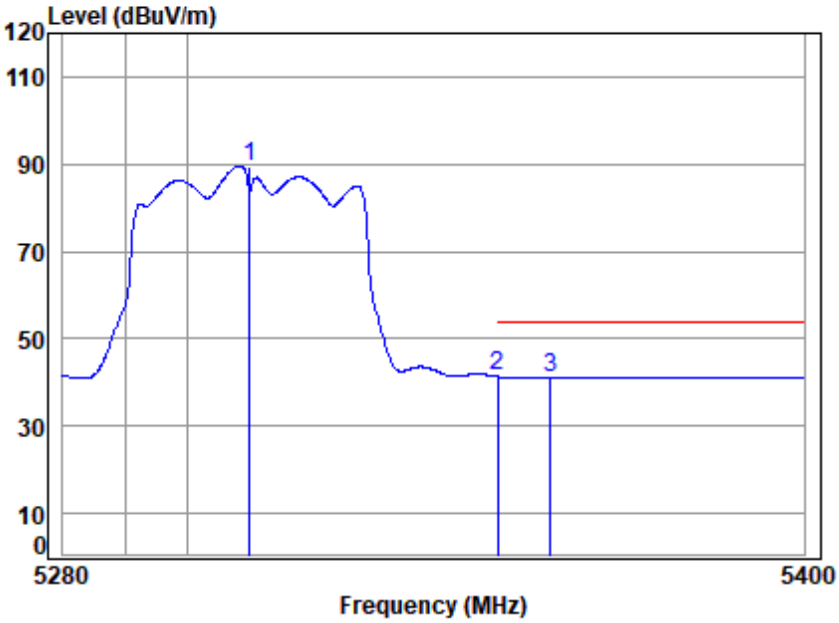
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5310 Band edge
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	10.31	32.72	30.78	77.28	89.53	------	------	Average
2 pp	5350.020	10.45	32.80	30.76	28.87	41.36	54.00	-12.64	Average
3	5358.656	10.48	32.80	30.76	28.66	41.18	54.00	-12.82	Average

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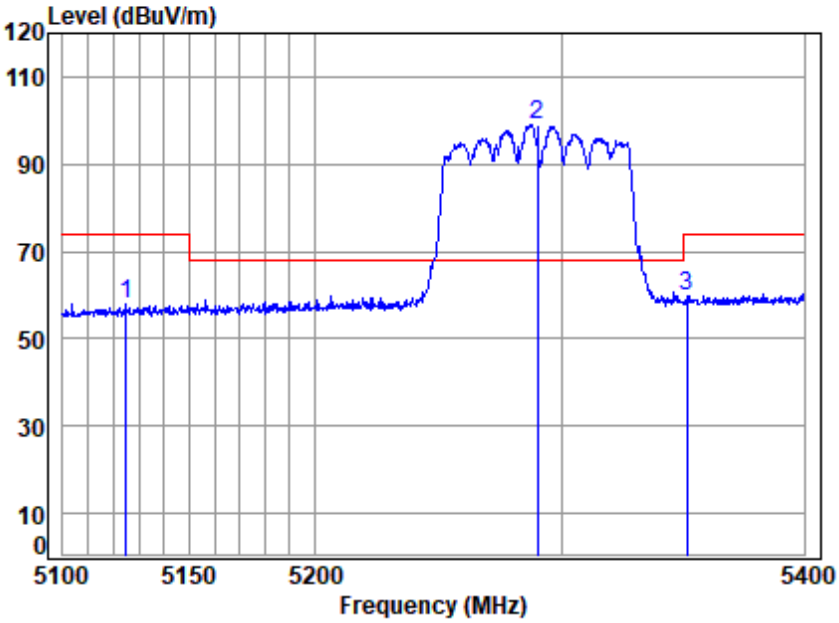
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5290 Band edge
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5125.131	10.05	32.35	30.85	46.45	58.00	74.00	-16.00	peak
2 pp	5290.000	10.28	32.68	30.78	86.94	99.12	68.20	30.92	peak
3	5351.452	10.45	32.80	30.76	47.24	59.73	74.00	-14.27	peak

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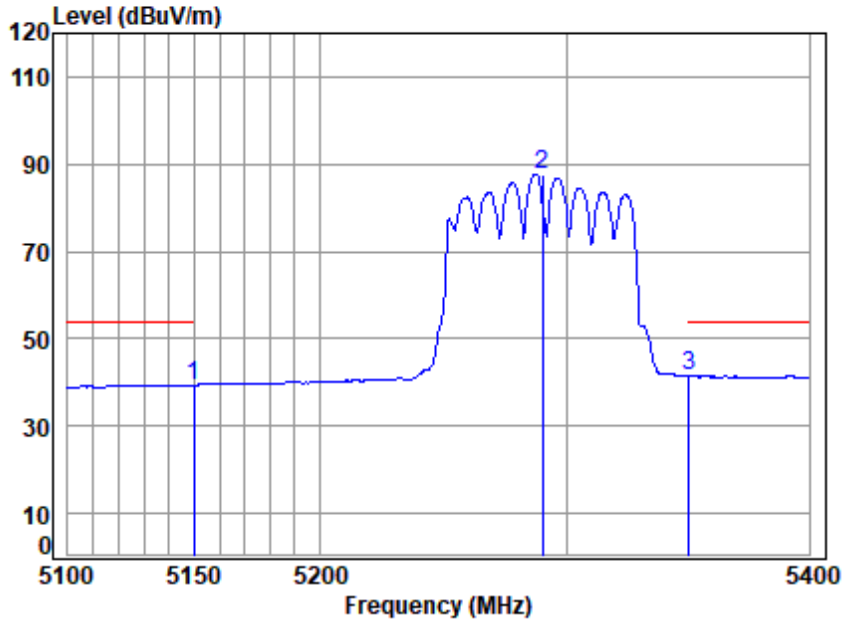
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5290 Band edge
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.798	10.14	32.40	30.84	27.72	39.42	54.00	-14.58	Average
2	5290.000	10.28	32.68	30.78	75.57	87.75	------	------	Average
3 pp	5350.229	10.45	32.80	30.76	29.01	41.50	54.00	-12.50	Average

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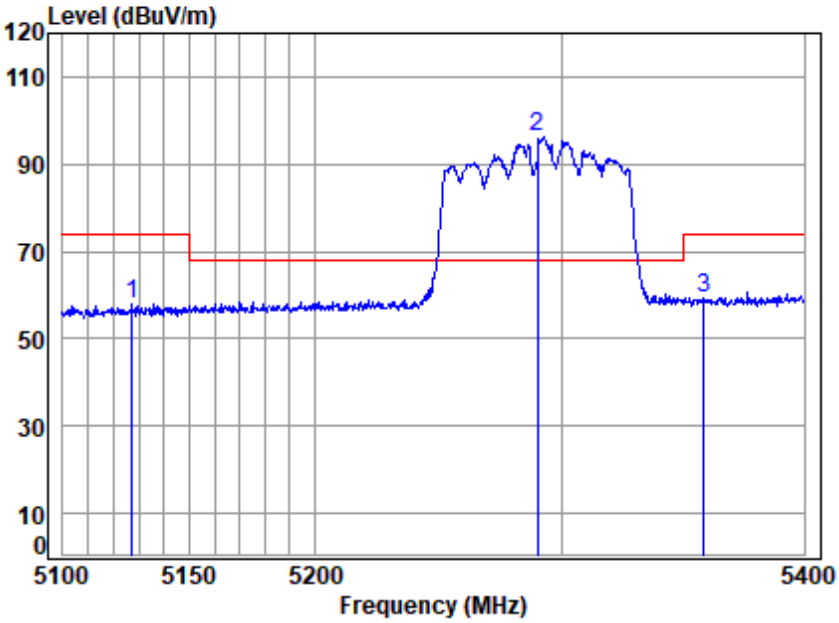
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5290 Band edge
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5127.476	10.05	32.35	30.85	46.53	58.08	74.00	-15.92	peak
2 pp	5290.000	10.28	32.68	30.78	84.01	96.19	68.20	27.99	peak
3	5358.492	10.48	32.80	30.76	46.97	59.49	74.00	-14.51	peak

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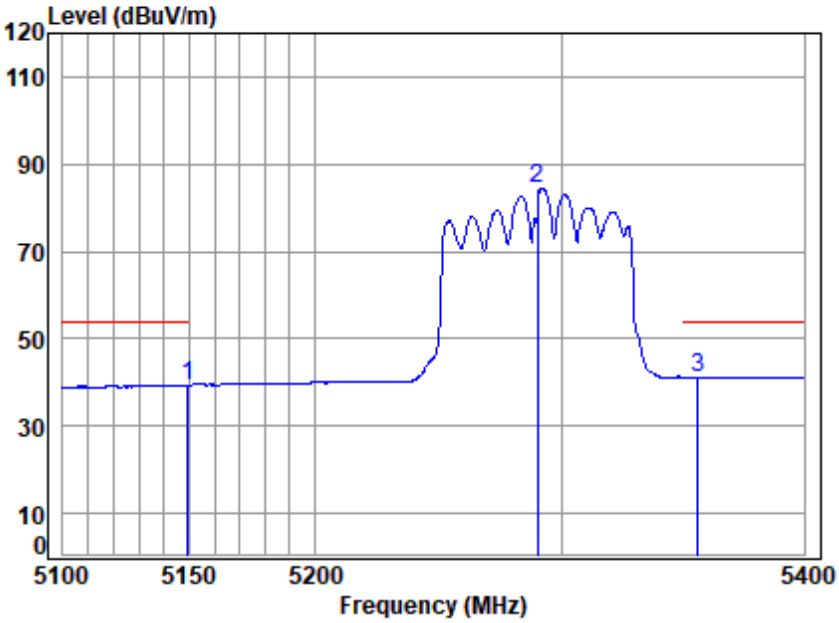

Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5290 Band edge
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.503	10.14	32.40	30.84	27.64	39.34	54.00	-14.66	Average
2	5290.000	10.28	32.68	30.78	72.27	84.45	------	------	Average
3 pp	5356.042	10.47	32.80	30.76	28.70	41.21	54.00	-12.79	Average

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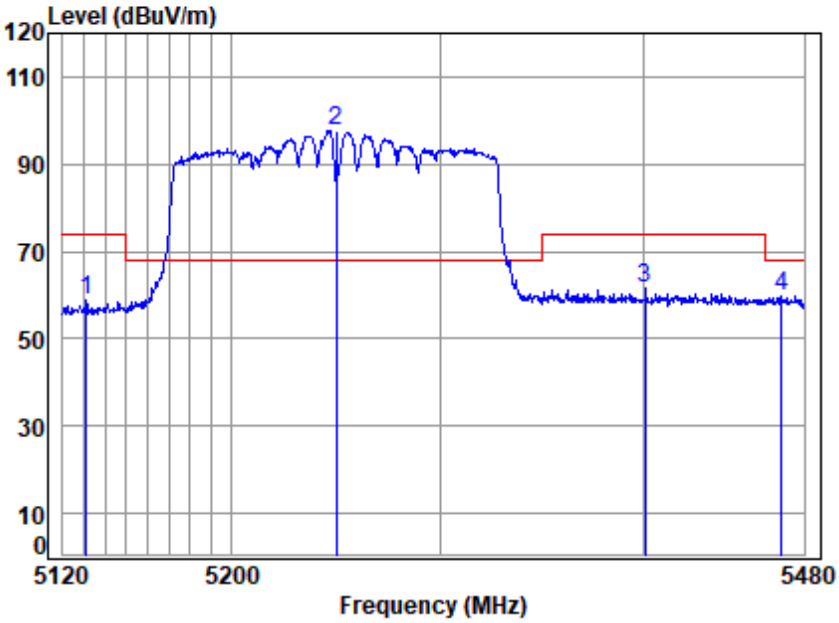
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5250 Band edge
: 5GWIFI 11AC160

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5131.145	10.07	32.36	30.85	47.10	58.68	74.00	-15.32	peak
2 pp	5250.000	10.31	32.60	30.80	85.65	97.76	68.20	29.56	peak
3	5400.890	10.62	32.80	30.74	49.02	61.70	74.00	-12.30	peak
4	5468.840	10.59	32.90	30.71	46.88	59.66	68.20	-8.54	peak

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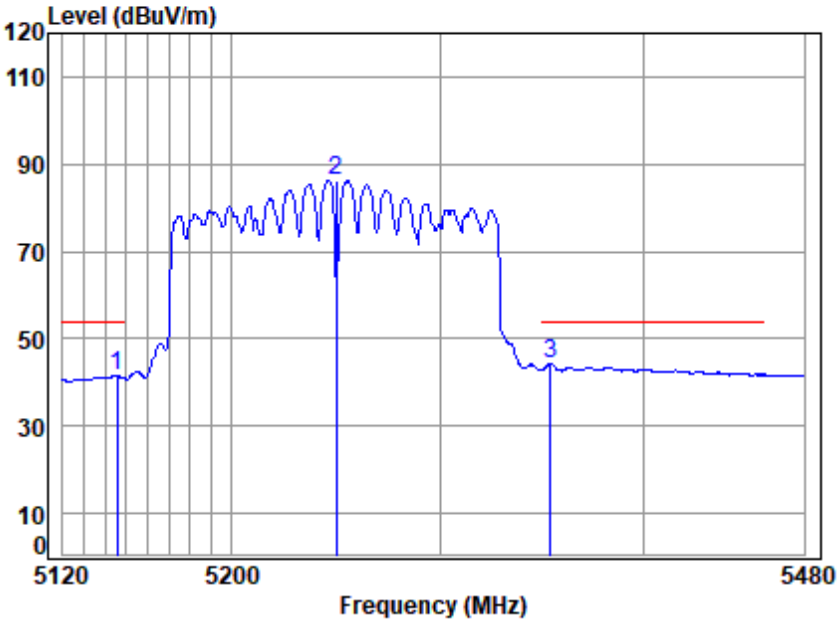
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5250 Band edge
: 5GWIFI 11AC160

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5145.460	10.12	32.39	30.84	29.91	41.58	54.00	-12.42	Average
2	5250.000	10.31	32.60	30.80	74.09	86.20	------	------	Average
3 pp	5354.118	10.46	32.80	30.76	31.84	44.34	54.00	-9.66	Average

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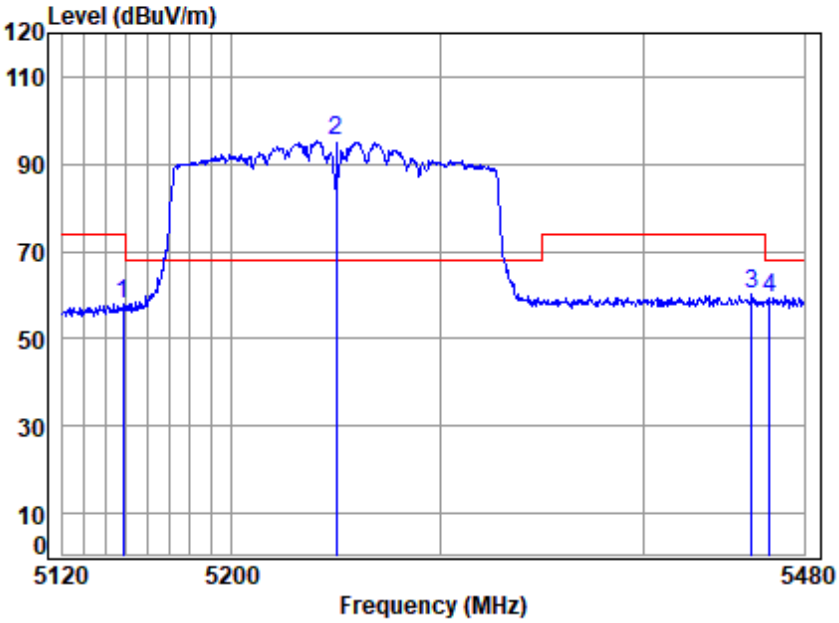
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5250 Band edge
: 5GWIFI 11AC160

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.608	10.13	32.40	30.84	46.34	58.03	74.00	-15.97	peak
2 pp	5250.000	10.31	32.60	30.80	83.09	95.20	68.20	27.00	peak
3	5453.625	10.60	32.90	30.72	47.38	60.16	74.00	-13.84	peak
4	5462.898	10.59	32.90	30.71	46.75	59.53	68.20	-8.67	peak

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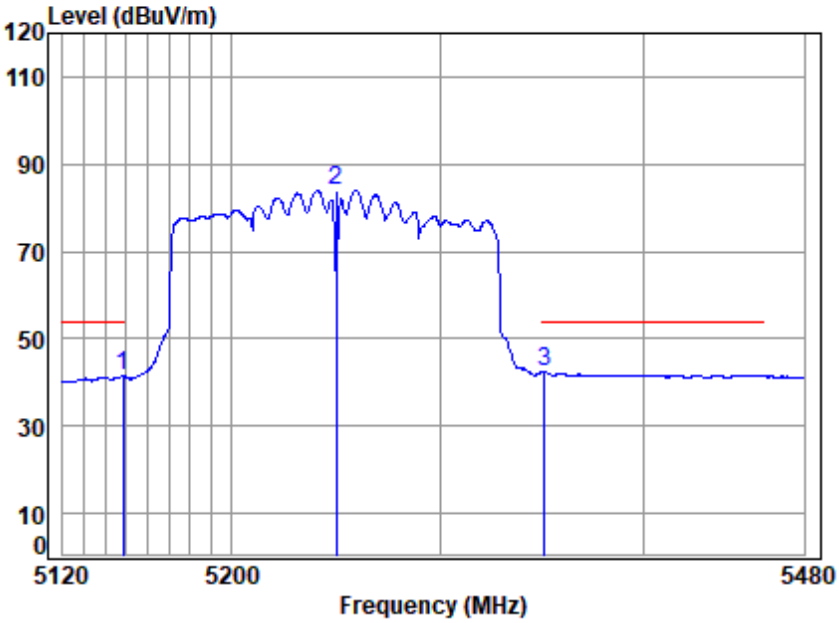

Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5250 Band edge
: 5GWIFI 11AC160

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.608	10.13	32.40	30.84	29.78	41.47	54.00	-12.53	Average
2	5250.000	10.31	32.60	30.80	71.76	83.87	------	------	Average
3 pp	5351.208	10.45	32.80	30.76	29.97	42.46	54.00	-11.54	Average

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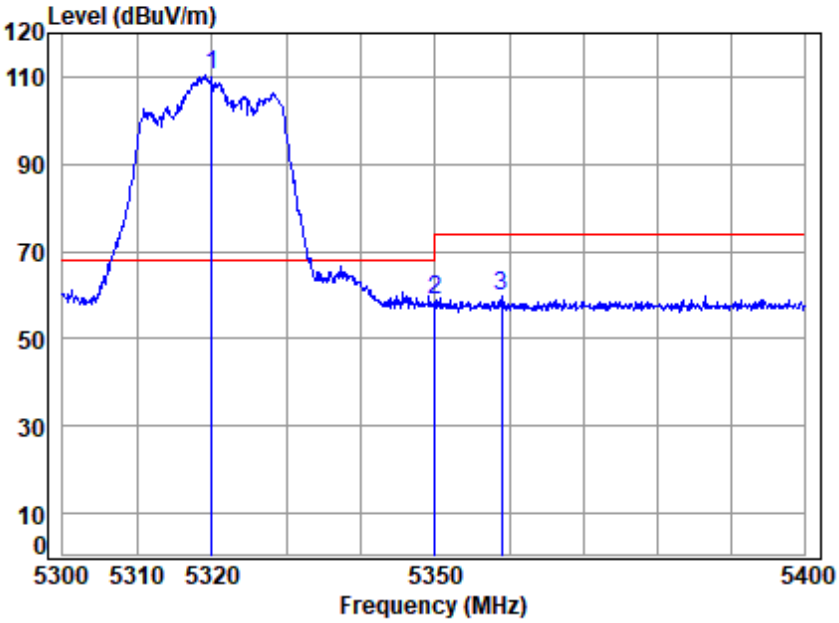
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5320 Band edge
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	97.90	110.22	68.20	42.02	peak
2	5350.020	10.45	32.80	30.76	46.34	58.83	74.00	-15.17	peak
3	5358.974	10.48	32.80	30.76	47.36	59.88	74.00	-14.12	peak

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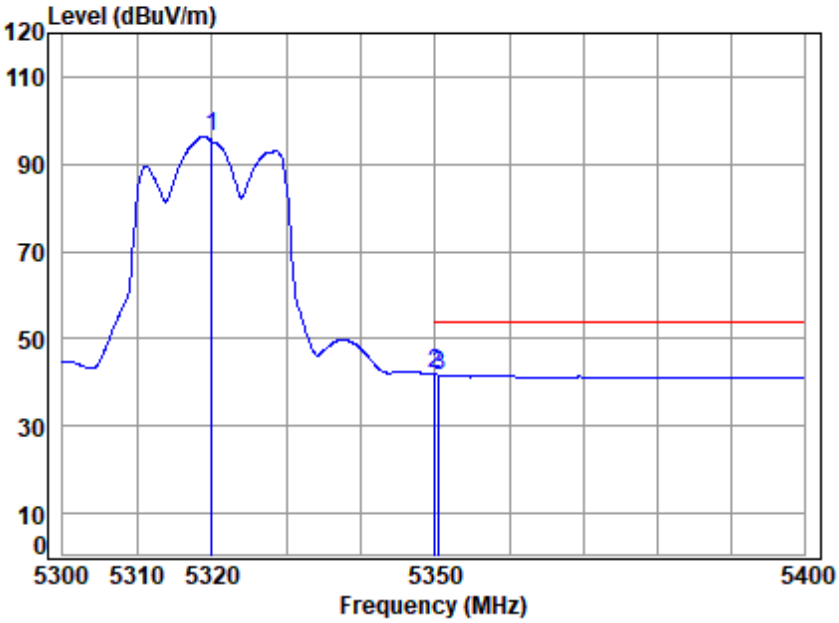
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5320 Band edge
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	83.96	96.28	------	------	Average
2 pp	5350.020	10.45	32.80	30.76	29.35	41.84	54.00	-12.16	Average
3	5350.566	10.45	32.80	30.76	29.21	41.70	54.00	-12.30	Average

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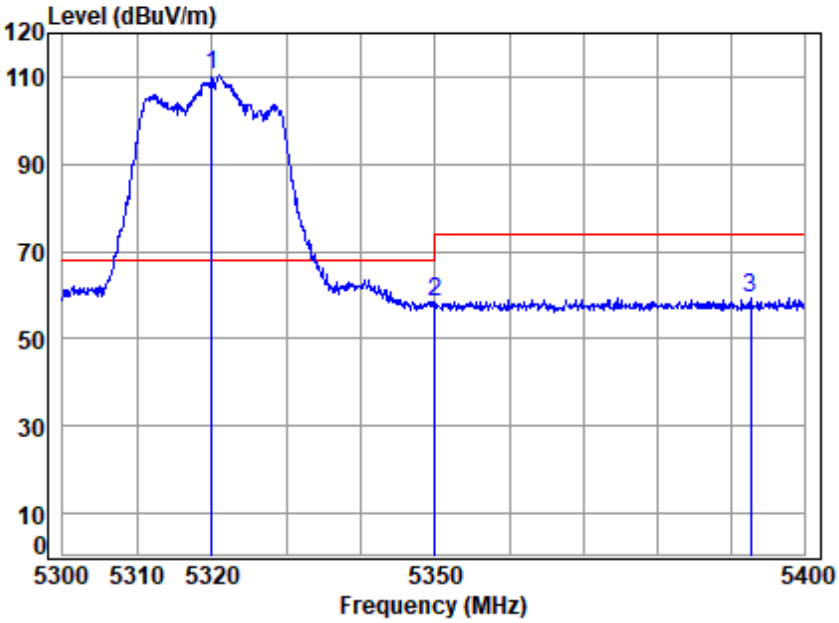
Test Mode: 15; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5320 Band edge
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	97.94	110.26	68.20	42.06	peak
2	5350.020	10.45	32.80	30.76	45.92	58.41	74.00	-15.59	peak
3	5392.737	10.60	32.80	30.74	46.71	59.37	74.00	-14.63	peak

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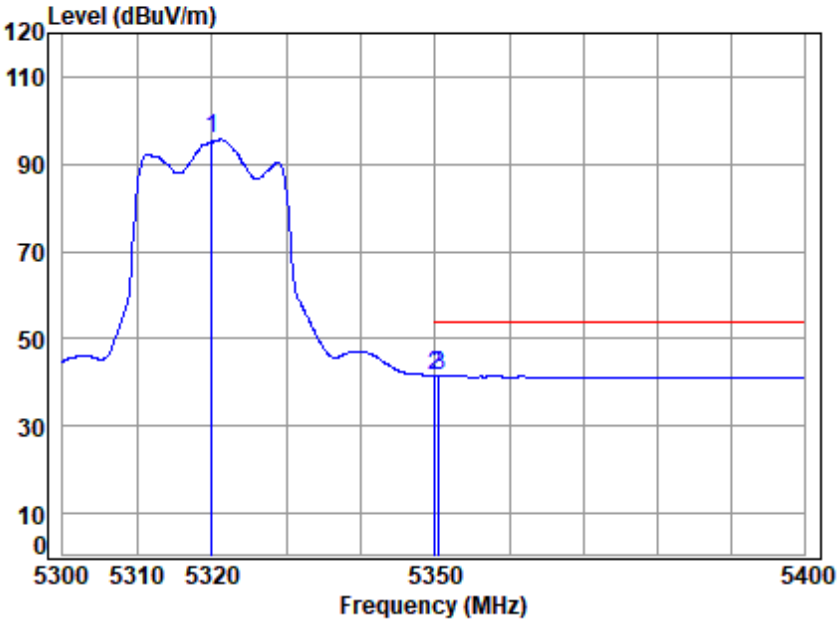
Test Mode: 15; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5320 Band edge
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	83.30	95.62	------	------	Average
2 pp	5350.020	10.45	32.80	30.76	29.17	41.66	54.00	-12.34	Average
3	5350.566	10.45	32.80	30.76	29.10	41.59	54.00	-12.41	Average

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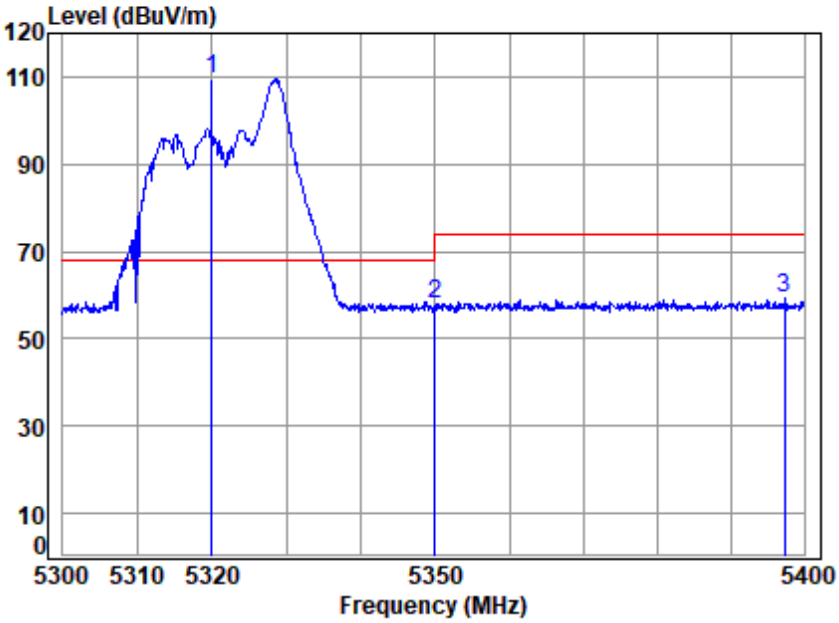
Test Mode: 15; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5320 Band edge
: 5GWIFI 11AX20_RU26_8

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	97.31	109.63	68.20	41.43	peak
2	5350.020	10.45	32.80	30.76	45.44	57.93	74.00	-16.07	peak
3	5397.275	10.61	32.80	30.74	46.44	59.11	74.00	-14.89	peak

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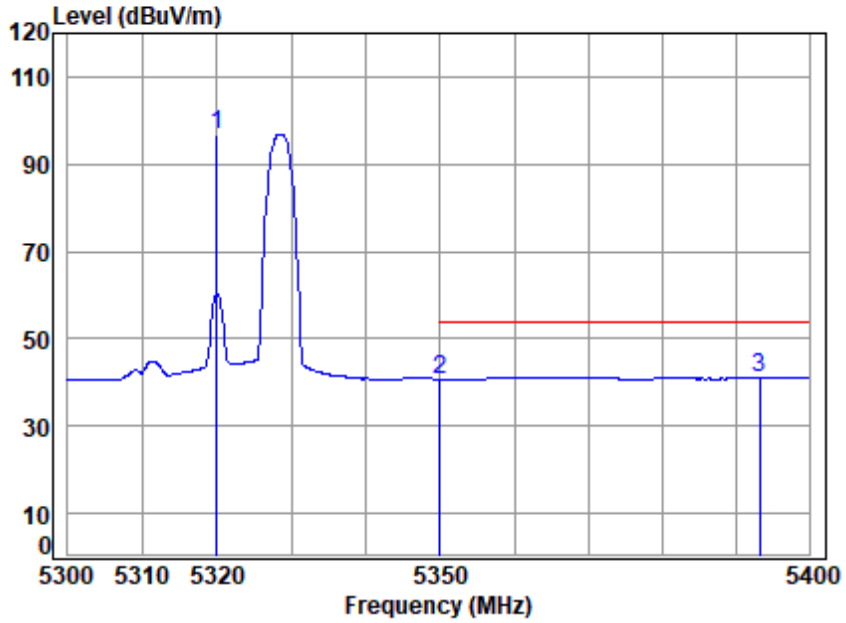
Test Mode: 15; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5320 Band edge
: 5GWIFI 11AX20_RU26_8

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	84.62	96.94	------	------	Average
2	5350.020	10.45	32.80	30.76	28.30	40.79	54.00	-13.21	Average
3 pp	5393.241	10.60	32.80	30.74	28.34	41.00	54.00	-13.00	Average

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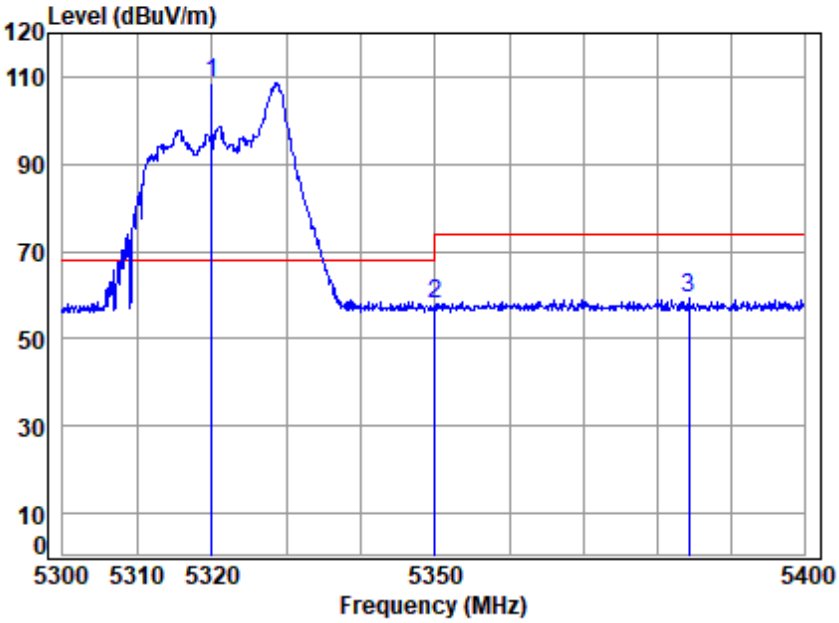
Test Mode: 15; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5320 Band edge
: 5GWIFI 11AX20_RU26_8

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	96.32	108.64	68.20	40.44	peak
2	5350.020	10.45	32.80	30.76	45.39	57.88	74.00	-16.12	peak
3	5384.277	10.57	32.80	30.75	46.67	59.29	74.00	-14.71	peak

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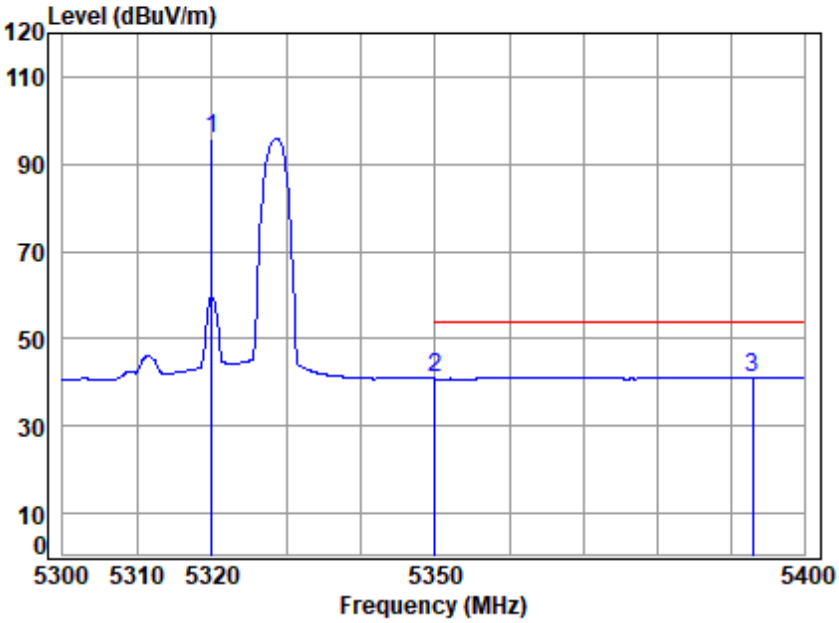
Test Mode: 15; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5320 Band edge
: 5GWIFI 11AX20_RU26_8

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	83.44	95.76	------	------	Average
2	5350.020	10.45	32.80	30.76	28.35	40.84	54.00	-13.16	Average
3 pp	5392.939	10.60	32.80	30.74	28.38	41.04	54.00	-12.96	Average

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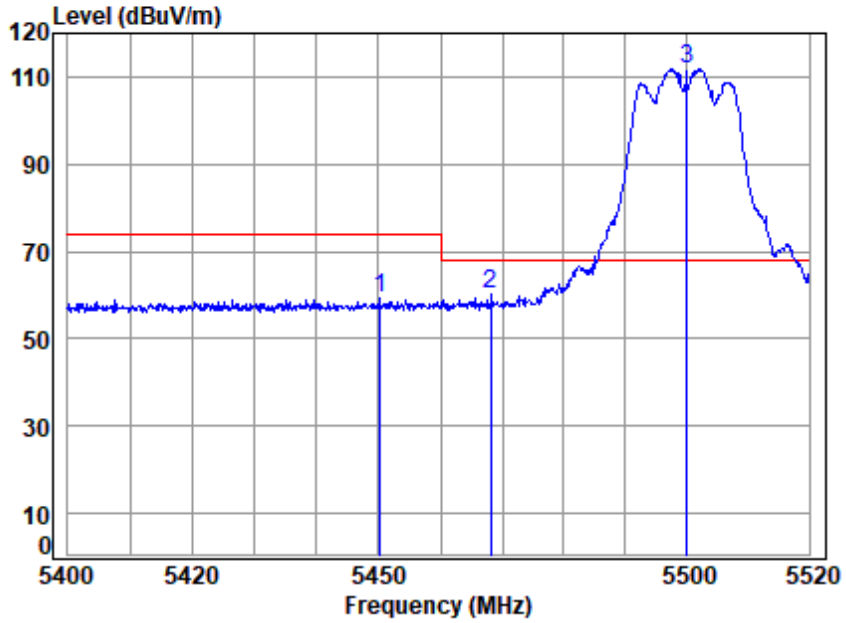
Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5500 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5450.199	10.60	32.90	30.72	46.66	59.44	74.00	-14.56	peak
2	5468.197	10.59	32.90	30.71	47.26	60.04	68.20	-8.16	peak
3 pp	5500.000	10.58	32.90	30.70	99.11	111.89	68.20	43.69	peak

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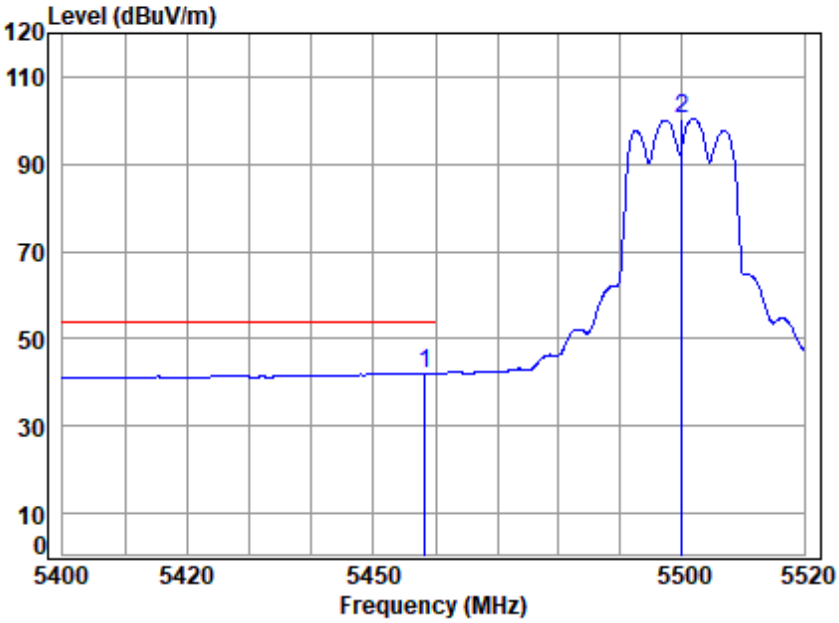
Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5500 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5458.230	10.60	32.90	30.72	29.28	42.06	54.00	-11.94	Average
2	5500.000	10.58	32.90	30.70	87.60	100.38	------	------	Average

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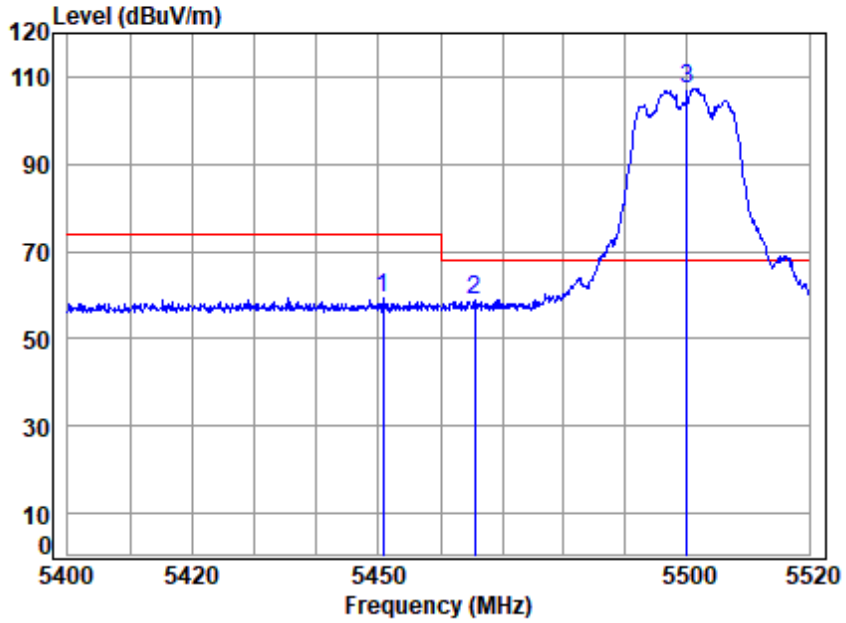
Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5500 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5450.678	10.60	32.90	30.72	46.52	59.30	74.00	-14.70	peak
2	5465.553	10.59	32.90	30.71	46.10	58.88	68.20	-9.32	peak
3 pp	5500.000	10.58	32.90	30.70	94.51	107.29	68.20	39.09	peak

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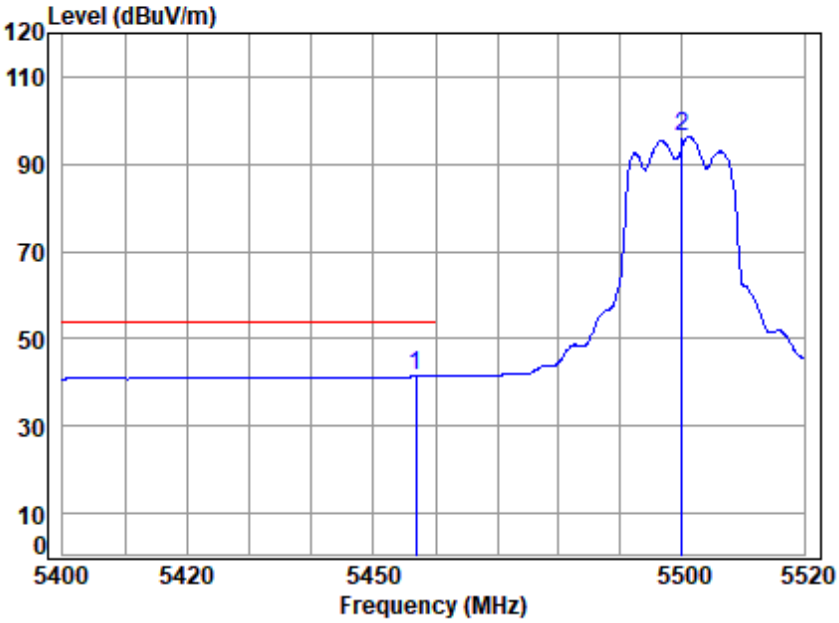
Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5500 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5456.911	10.60	32.90	30.72	28.64	41.42	54.00	-12.58	Average
2	5500.000	10.58	32.90	30.70	83.51	96.29	------	------	Average

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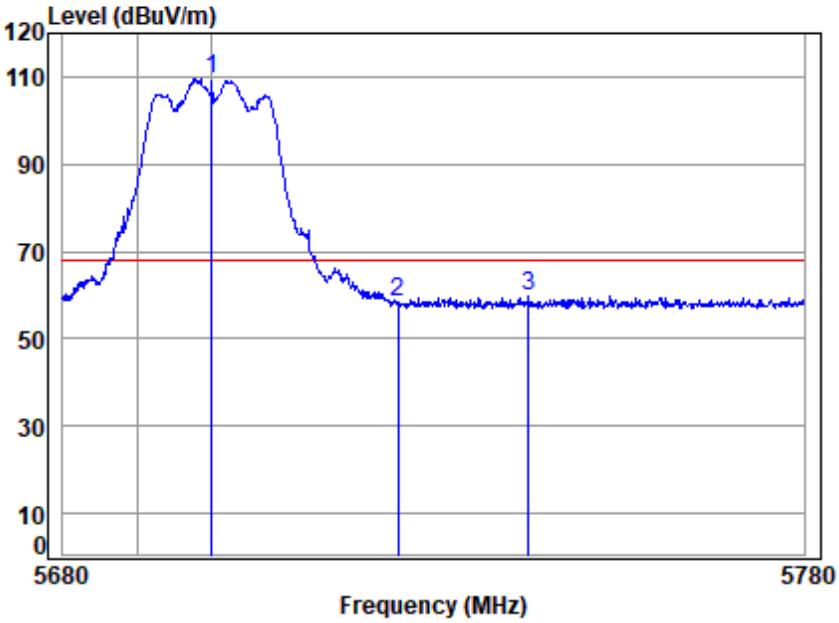
Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5700 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	96.26	109.40	68.20	41.20	peak
2	5725.000	10.68	33.25	30.61	45.16	58.48	68.20	-9.72	peak
3	5742.596	10.76	33.29	30.60	46.28	59.73	68.20	-8.47	peak

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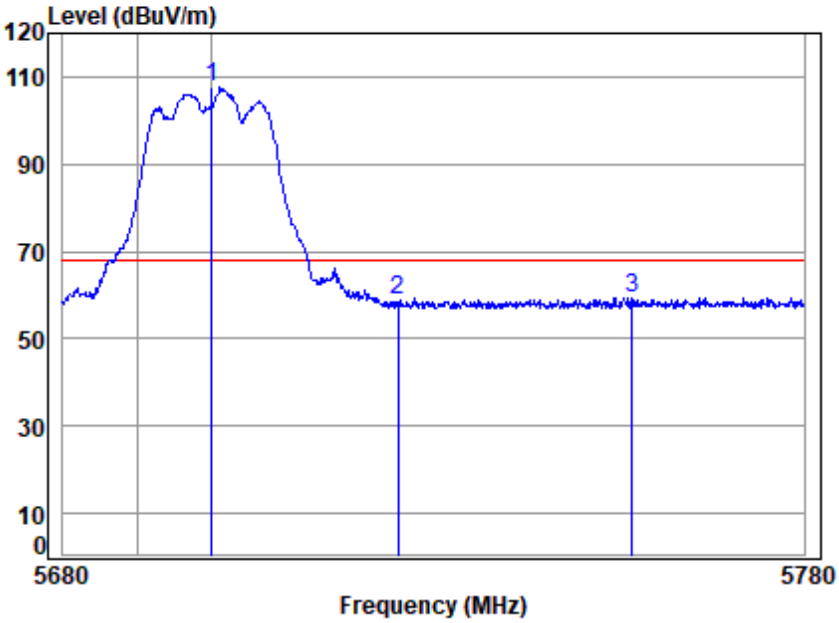
Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5700 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	94.34	107.48	68.20	39.28	peak
2	5725.000	10.68	33.25	30.61	45.45	58.77	68.20	-9.43	peak
3	5756.644	10.82	33.31	30.60	45.91	59.44	68.20	-8.76	peak

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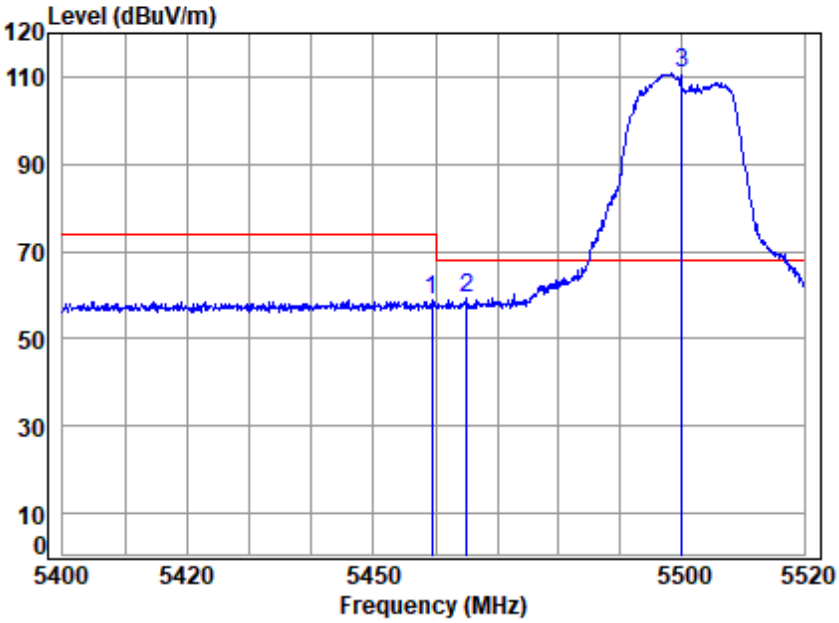
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5500 Band edge
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5459.430	10.60	32.90	30.72	46.00	58.78	74.00	-15.22	peak
2	5465.073	10.59	32.90	30.71	46.63	59.41	68.20	-8.79	peak
3 pp	5500.000	10.58	32.90	30.70	97.88	110.66	68.20	42.46	peak

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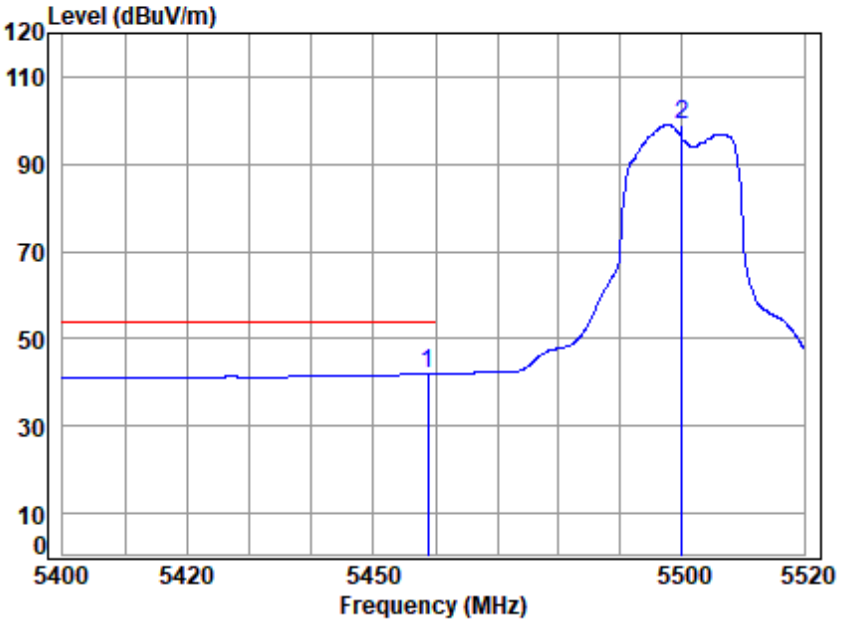
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5500 Band edge
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5458.710	10.60	32.90	30.72	29.18	41.96	54.00	-12.04	Average
2	5500.000	10.58	32.90	30.70	86.17	98.95	------	------	Average

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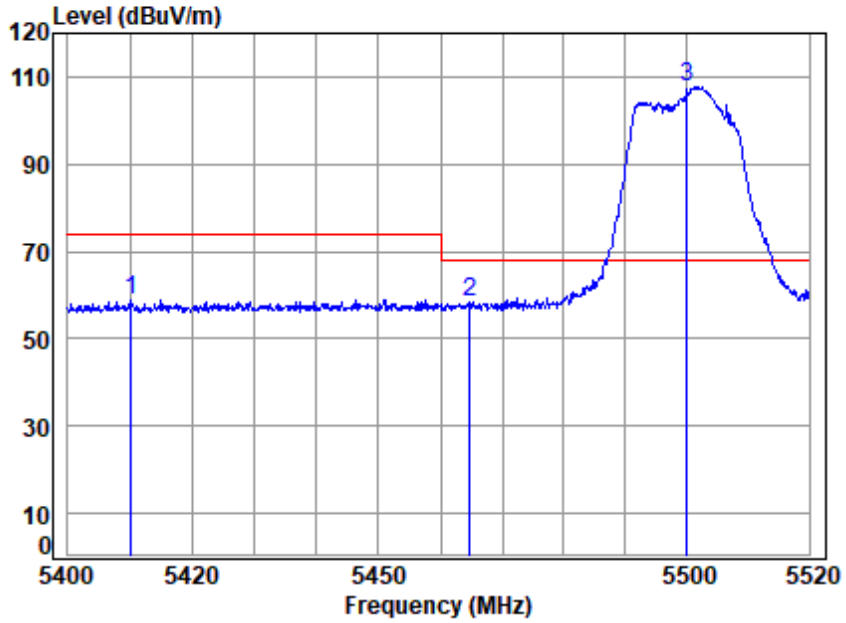
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5500 Band edge
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5410.217	10.62	32.82	30.74	46.19	58.89	74.00	-15.11	peak
2	5464.712	10.59	32.90	30.71	45.66	58.44	68.20	-9.76	peak
3 pp	5500.000	10.58	32.90	30.70	94.82	107.60	68.20	39.40	peak

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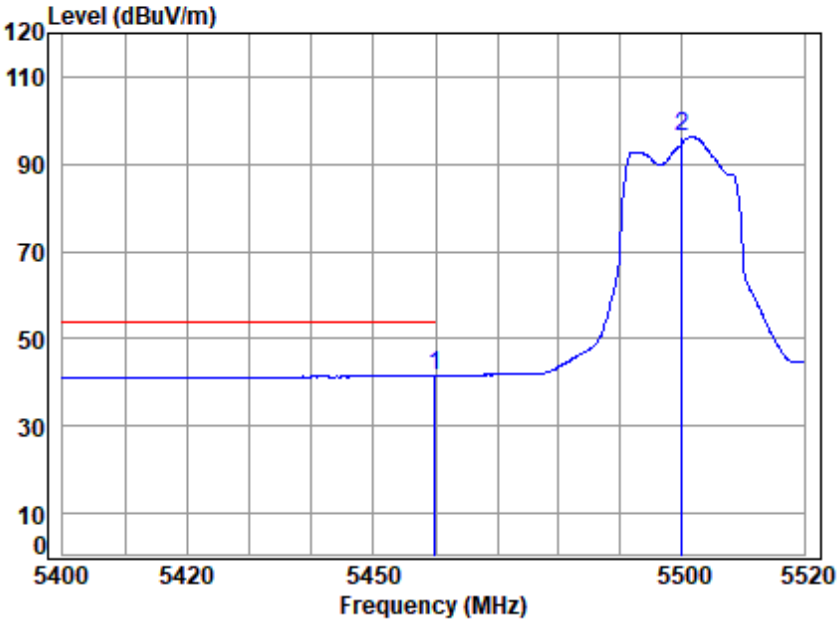
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5500 Band edge
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.910	10.60	32.90	30.72	28.86	41.64	54.00	-12.36	Average
2	5500.000	10.58	32.90	30.70	83.50	96.28	------	------	Average

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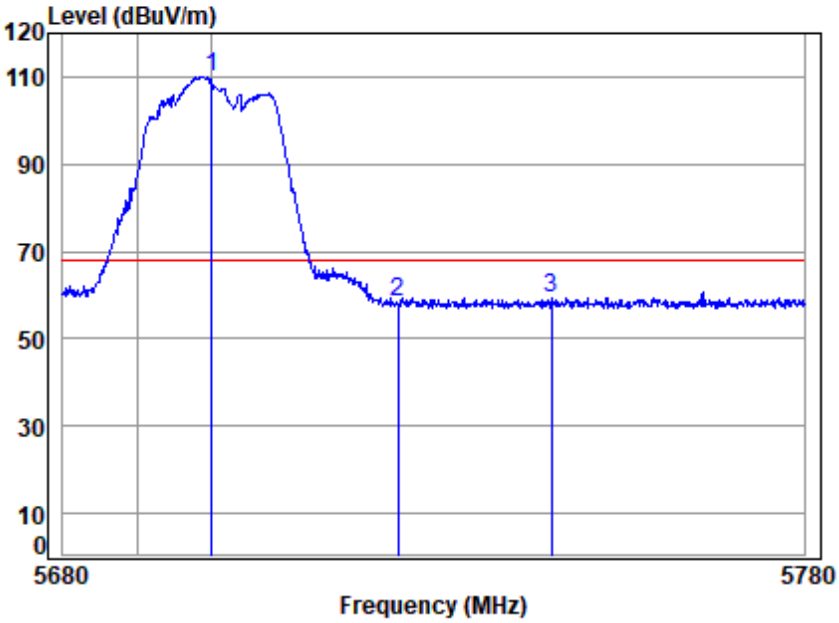
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5700 Band edge
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	96.96	110.10	68.20	41.90	peak
2	5725.000	10.68	33.25	30.61	45.04	58.36	68.20	-9.84	peak
3	5745.704	10.77	33.29	30.60	46.07	59.53	68.20	-8.67	peak

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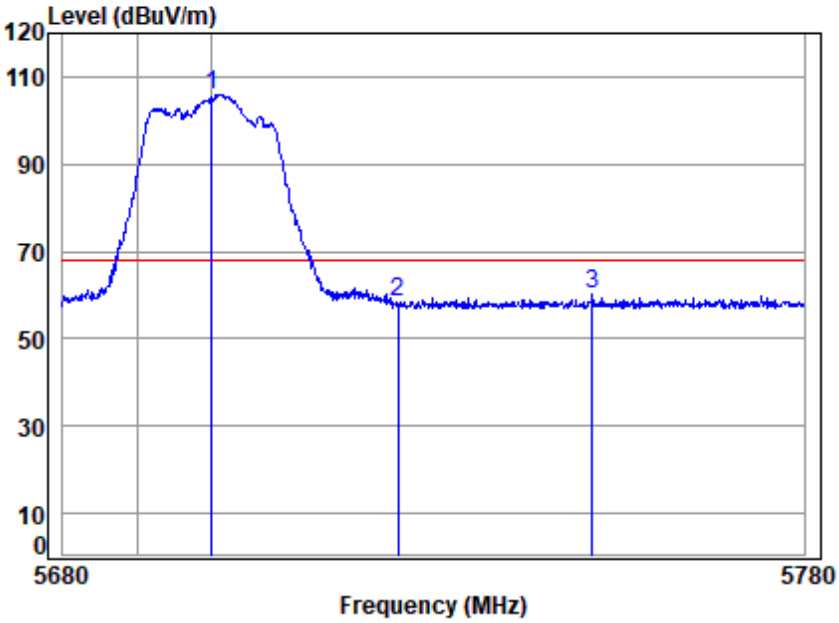

Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5700 Band edge
: 5GWIFI 11AC20

		Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	5700.000	10.56	33.20	30.62	92.79	105.93	68.20	37.73	peak
2		5725.000	10.68	33.25	30.61	45.08	58.40	68.20	-9.80	peak
3		5751.222	10.80	33.30	30.60	46.79	60.29	68.20	-7.91	peak

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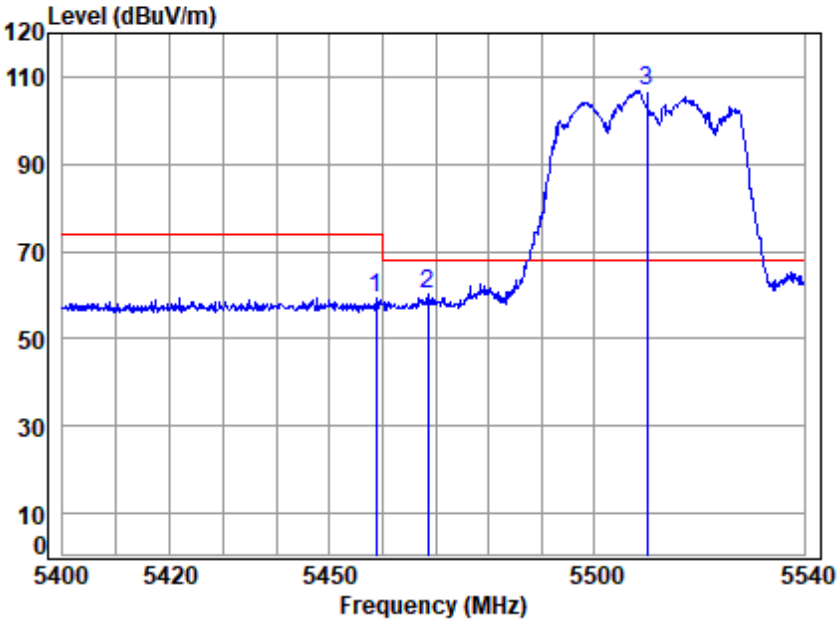
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5510 Band edge
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5458.783	10.60	32.90	30.72	46.54	59.32	74.00	-14.68	peak
2	5468.432	10.59	32.90	30.71	47.56	60.34	68.20	-7.86	peak
3 pp	5510.000	10.56	32.90	30.70	94.13	106.89	68.20	38.69	peak

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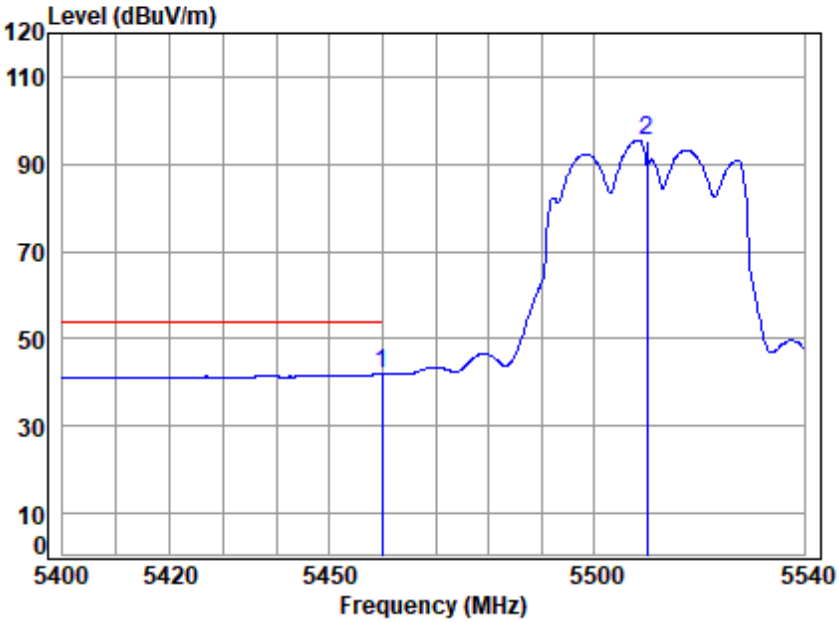
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5510 Band edge
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.901	10.60	32.90	30.72	29.19	41.97	54.00	-12.03	Average
2	5510.000	10.56	32.90	30.70	82.65	95.41	------	------	Average

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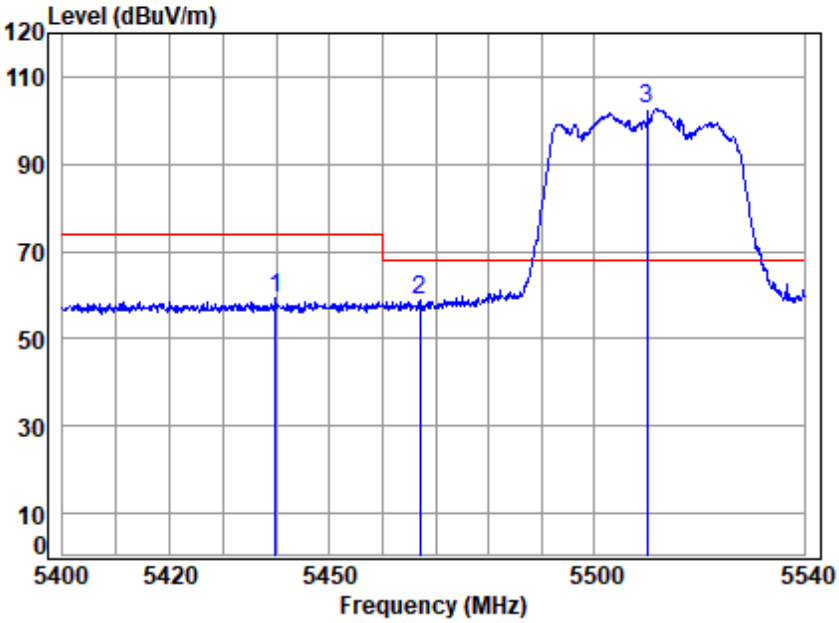
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5510 Band edge
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5439.814	10.60	32.88	30.72	46.61	59.37	74.00	-14.63	peak
2	5467.033	10.59	32.90	30.71	46.13	58.91	68.20	-9.29	peak
3 pp	5510.000	10.56	32.90	30.70	89.90	102.66	68.20	34.46	peak

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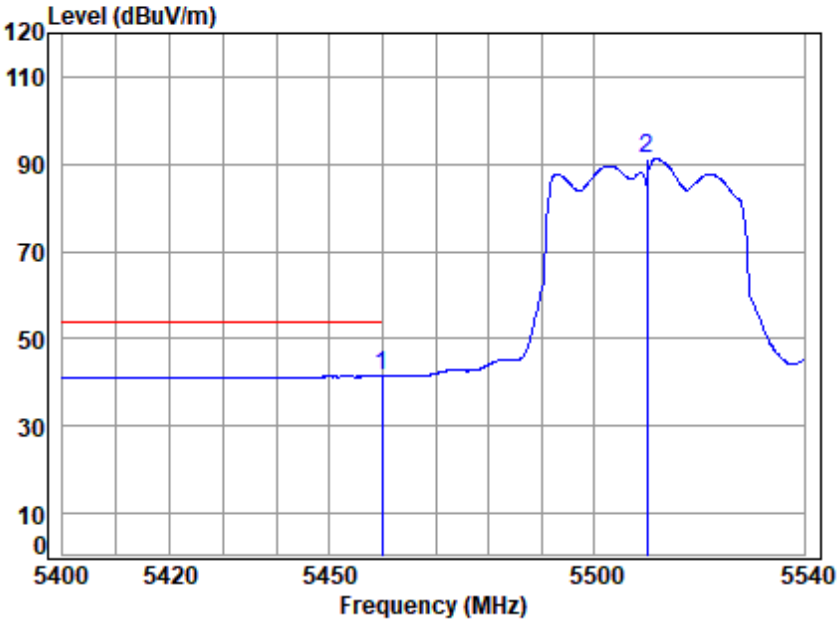
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5510 Band edge
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.901	10.60	32.90	30.72	28.67	41.45	54.00	-12.55	Average
2	5510.000	10.56	32.90	30.70	78.40	91.16	------	------	Average

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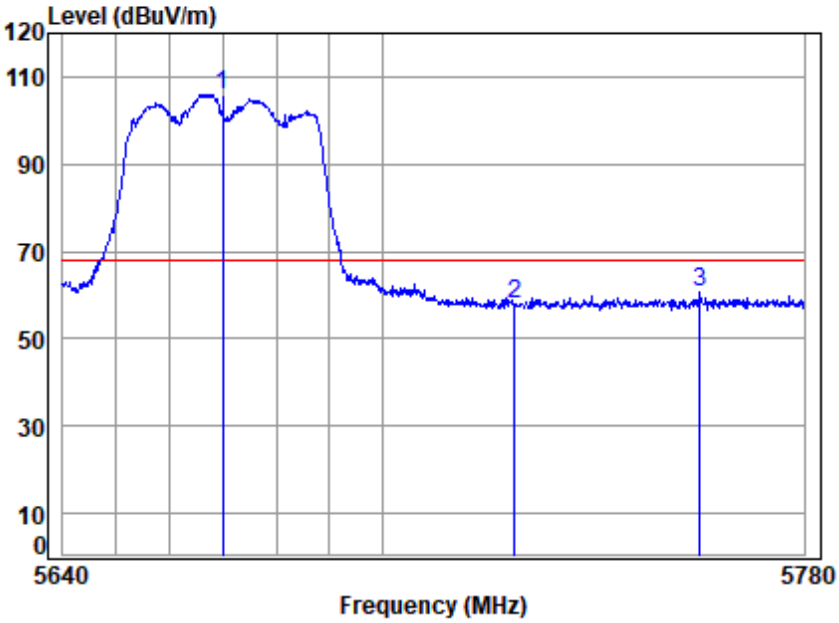
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5670 Band edge
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5670.000	10.52	33.14	30.63	92.91	105.94	68.20	37.74	peak
2	5725.000	10.68	33.25	30.61	44.67	57.99	68.20	-10.21	peak
3	5760.193	10.84	33.32	30.60	47.07	60.63	68.20	-7.57	peak

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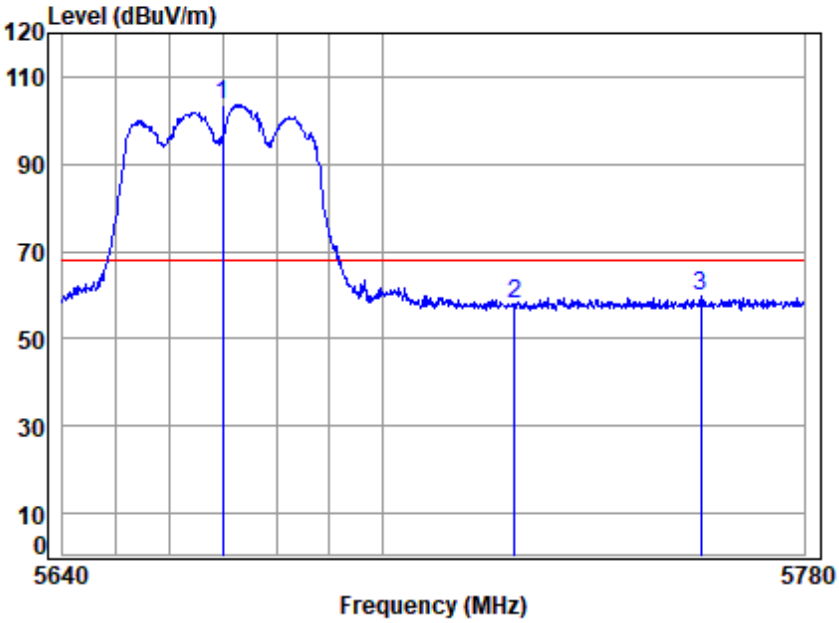
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5670 Band edge
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5670.000	10.52	33.14	30.63	90.77	103.80	68.20	35.60	peak
2	5725.000	10.68	33.25	30.61	44.77	58.09	68.20	-10.11	peak
3	5760.334	10.84	33.32	30.60	46.15	59.71	68.20	-8.49	peak

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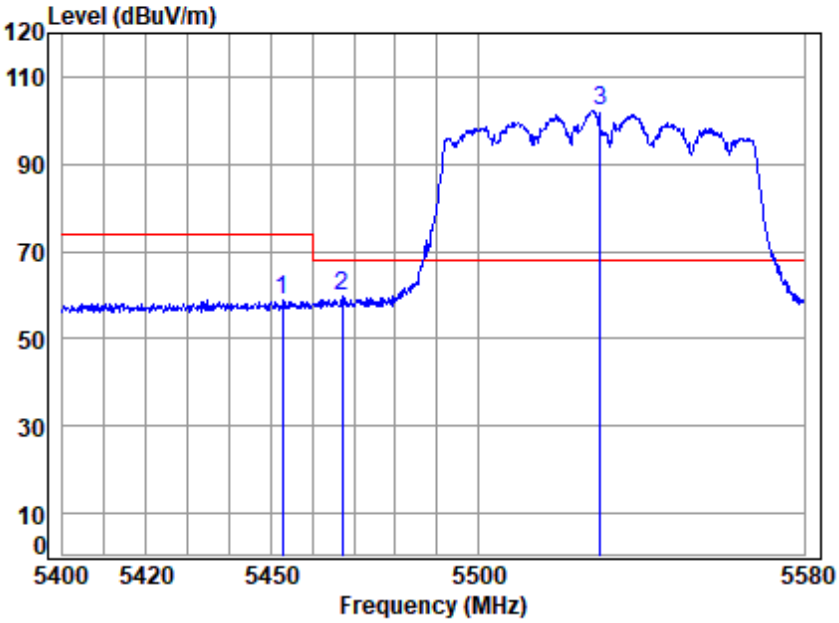
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5530 Band edge
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5452.845	10.60	32.90	30.72	45.94	58.72	74.00	-15.28	peak
2	5467.168	10.59	32.90	30.71	47.03	59.81	68.20	-8.39	peak
3 pp	5530.000	10.53	32.90	30.69	89.37	102.11	68.20	33.91	peak

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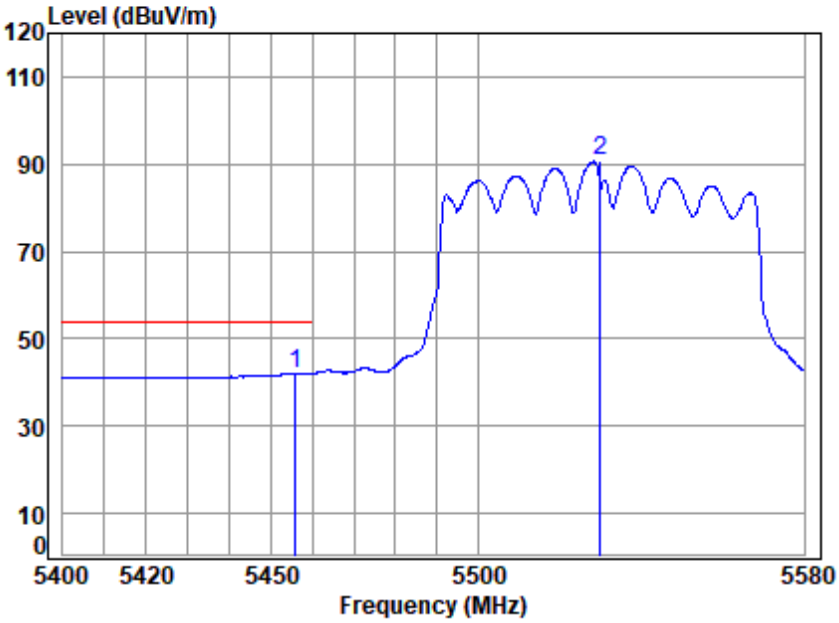
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5530 Band edge
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5455.886	10.60	32.90	30.72	29.33	42.11	54.00	-11.89	Average
2	5530.000	10.53	32.90	30.69	77.86	90.60	------	------	Average

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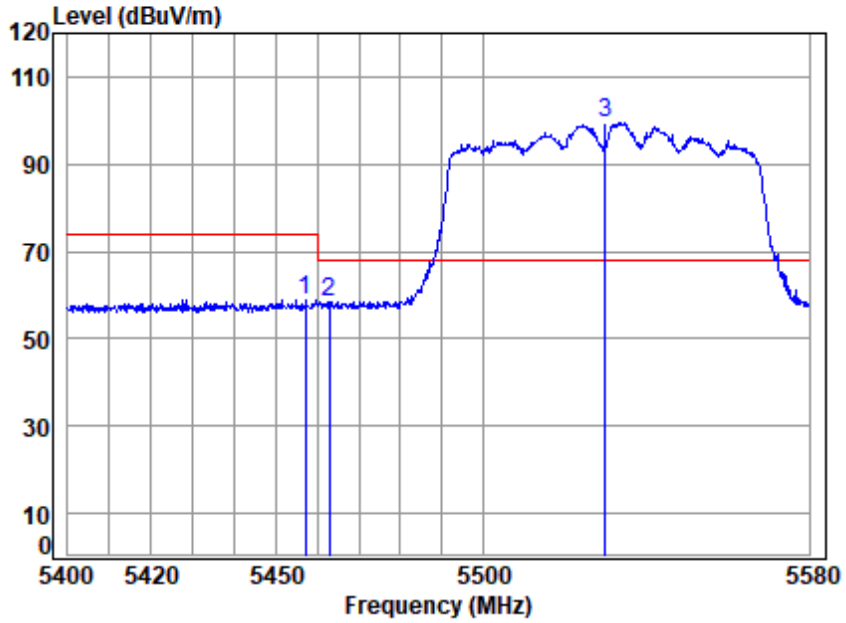
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5530 Band edge
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5457.138	10.60	32.90	30.72	46.21	58.99	74.00	-15.01	peak
2	5462.867	10.59	32.90	30.71	45.77	58.55	68.20	-9.65	peak
3 pp	5530.000	10.53	32.90	30.69	86.67	99.41	68.20	31.21	peak

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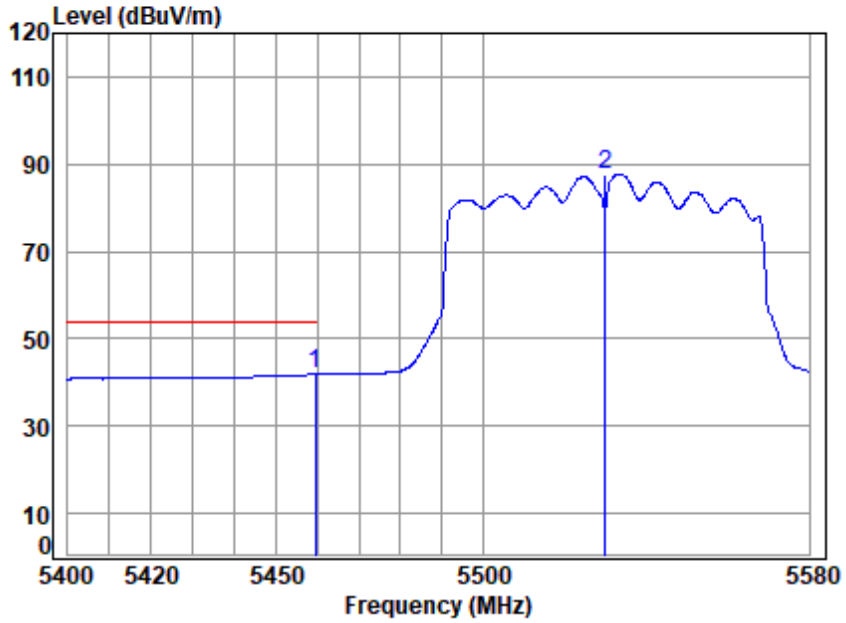
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5530 Band edge
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.465	10.60	32.90	30.72	29.05	41.83	54.00	-12.17	Average
2	5530.000	10.53	32.90	30.69	75.00	87.74	------	------	Average

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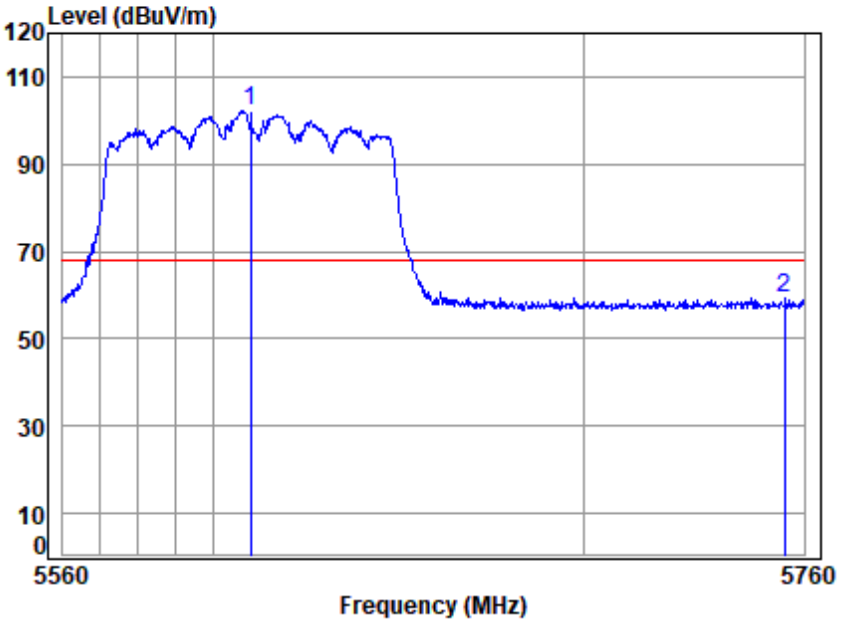
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5610 Band edge
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5610.000	10.43	33.02	30.66	89.42	102.21	68.20	34.01	peak
2	5754.710	10.81	33.31	30.60	45.69	59.21	68.20	-8.99	peak

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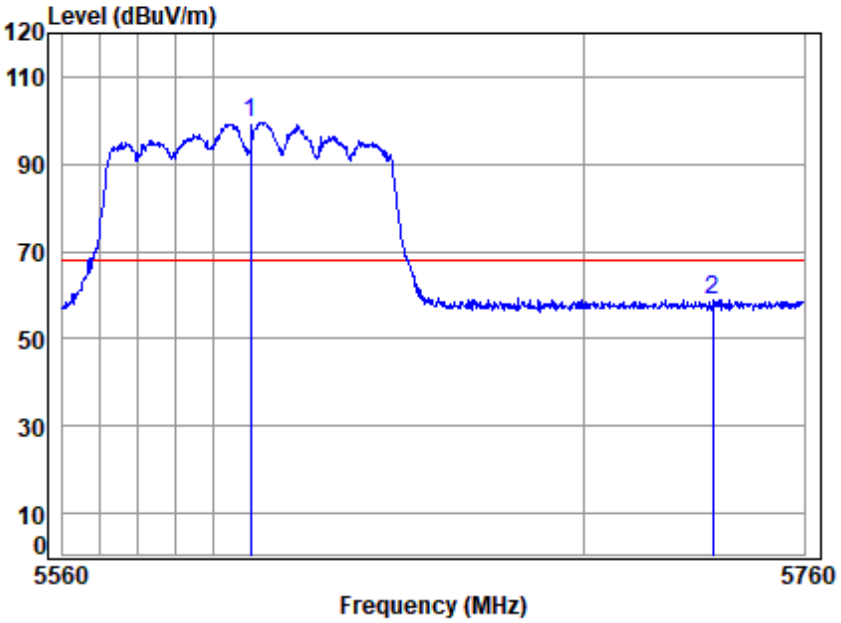
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5610 Band edge
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5610.000	10.43	33.02	30.66	86.85	99.64	68.20	31.44	peak
2	5735.017	10.72	33.27	30.61	45.43	58.81	68.20	-9.39	peak

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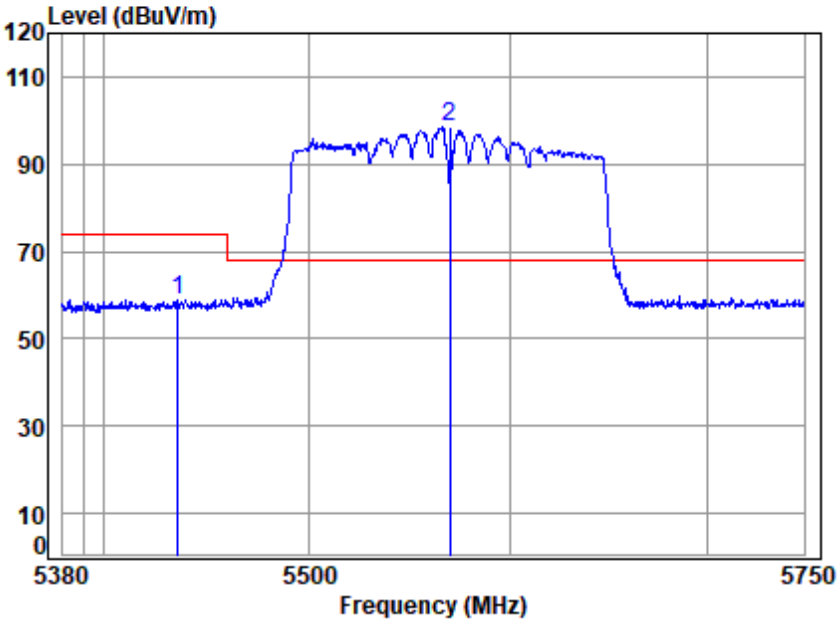
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5570 Band edge
: 5GWIFI 11AC160

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5436.112	10.61	32.87	30.73	46.26	59.01	74.00	-14.99	peak
2 pp	5570.000	10.46	32.94	30.67	85.91	98.64	68.20	30.44	peak

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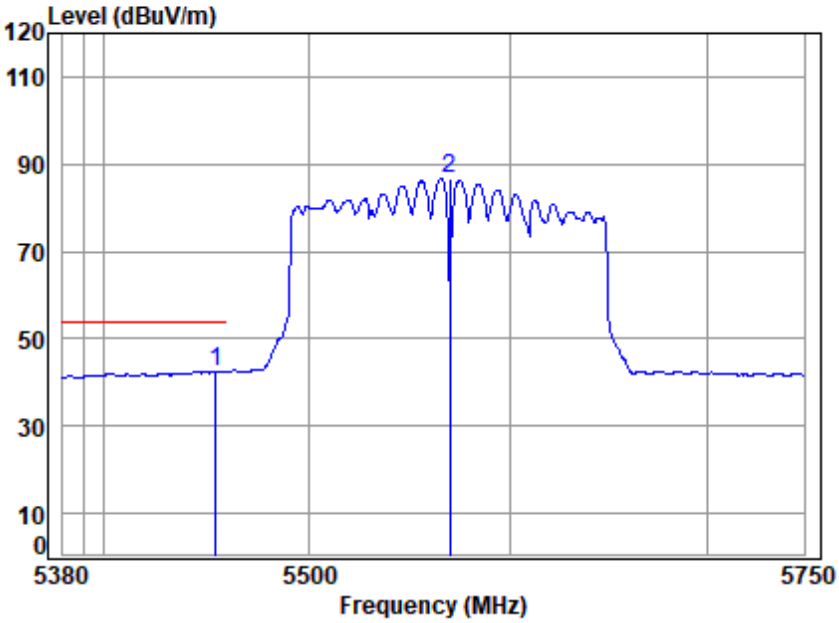
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5570 Band edge
: 5GWIFI 11AC160

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5454.221	10.60	32.90	30.72	29.64	42.42	54.00	-11.58	Average
2	5570.000	10.46	32.94	30.67	73.82	86.55	------	------	Average

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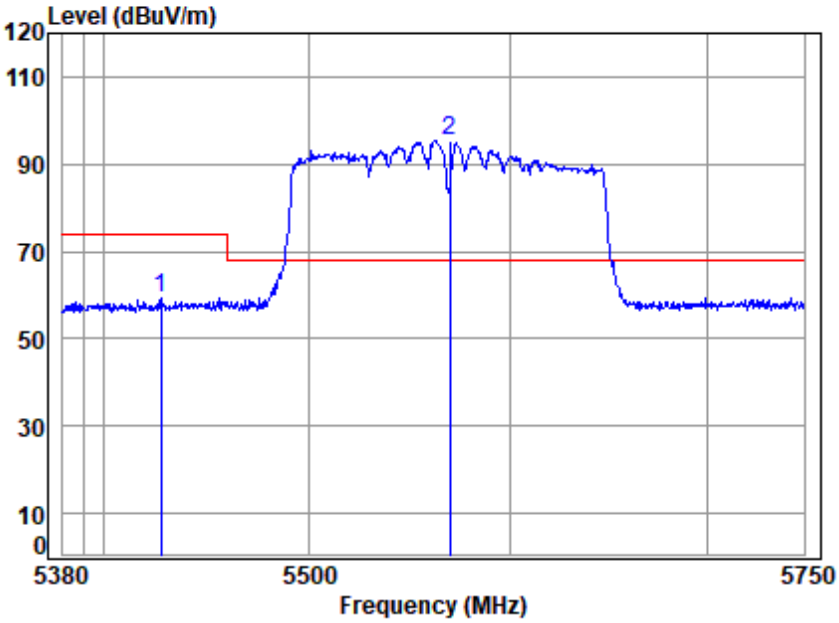
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5570 Band edge
: 5GWIFI 11AC160

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5427.442	10.61	32.85	30.73	46.75	59.48	74.00	-14.52	peak
2 pp	5570.000	10.46	32.94	30.67	82.76	95.49	68.20	27.29	peak

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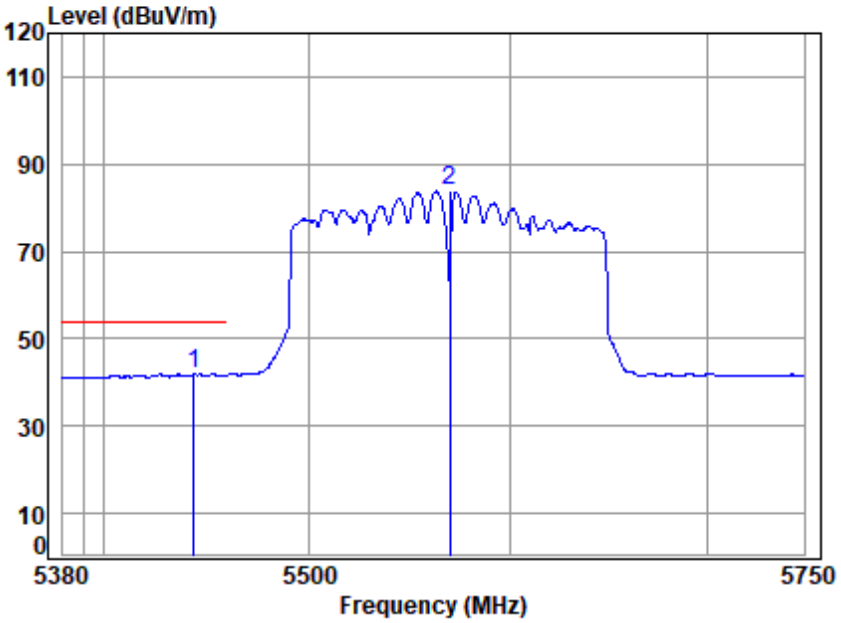
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5570 Band edge
: 5GWIFI 11AC160

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5443.710	10.60	32.89	30.72	29.06	41.83	54.00	-12.17	Average
2	5570.000	10.46	32.94	30.67	71.01	83.74	------	------	Average

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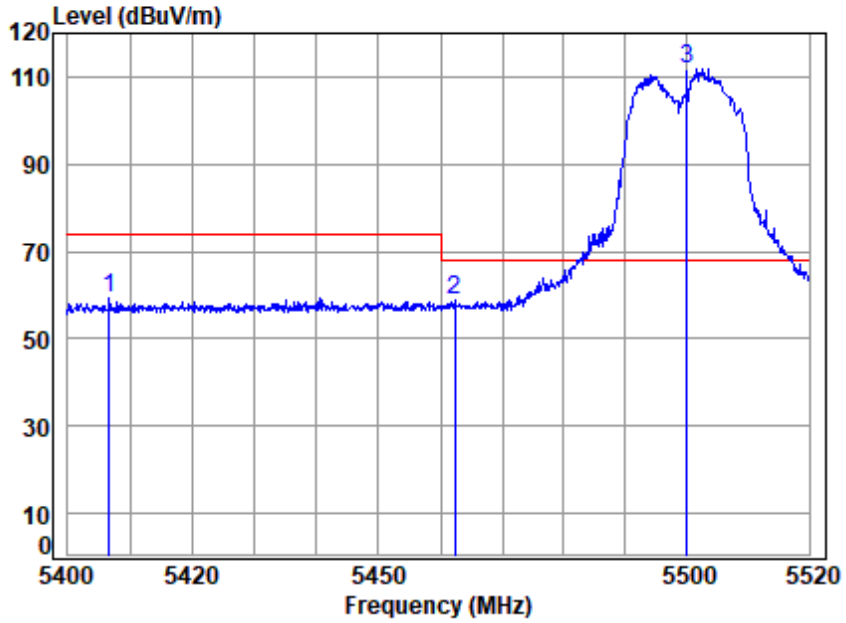
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5500 Band edge
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5406.650	10.62	32.81	30.74	46.67	59.36	74.00	-14.64	peak
2	5462.311	10.60	32.90	30.72	46.21	58.99	68.20	-9.21	peak
3 pp	5500.000	10.58	32.90	30.70	99.15	111.93	68.20	43.73	peak

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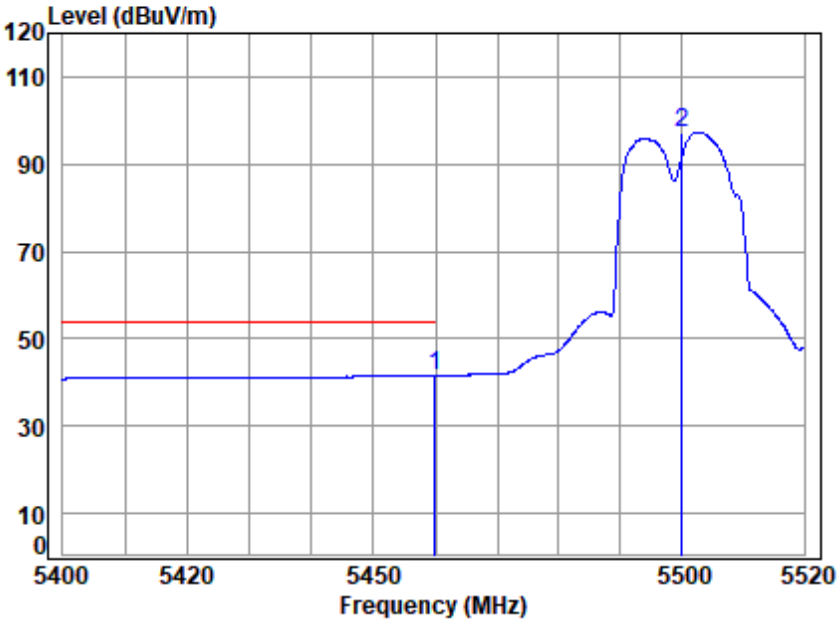
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5500 Band edge
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.910	10.60	32.90	30.72	28.80	41.58	54.00	-12.42	Average
2	5500.000	10.58	32.90	30.70	84.63	97.41	------	------	Average

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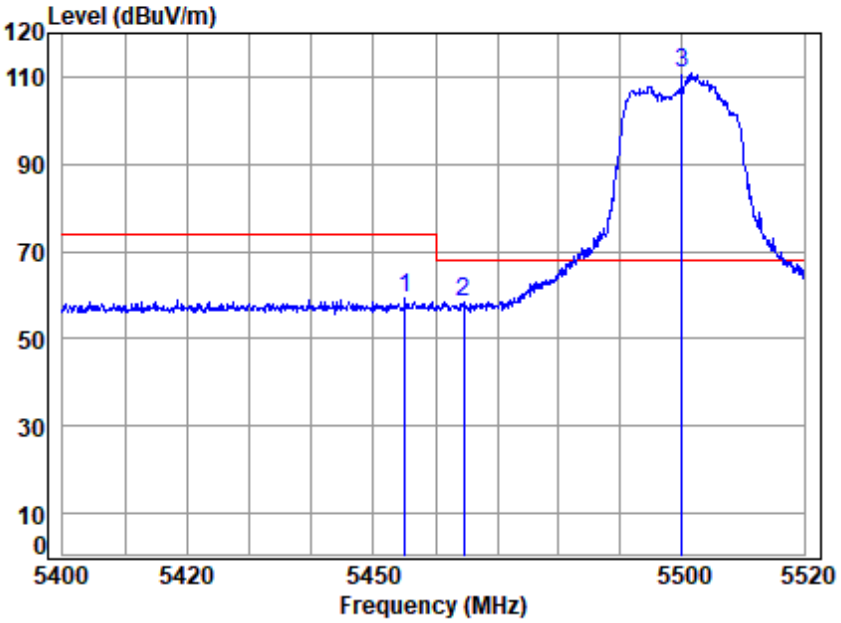
Test Mode: 16; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5500 Band edge
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5455.112	10.60	32.90	30.72	46.39	59.17	74.00	-14.83	peak
2	5464.592	10.59	32.90	30.71	45.50	58.28	68.20	-9.92	peak
3 pp	5500.000	10.58	32.90	30.70	98.08	110.86	68.20	42.66	peak

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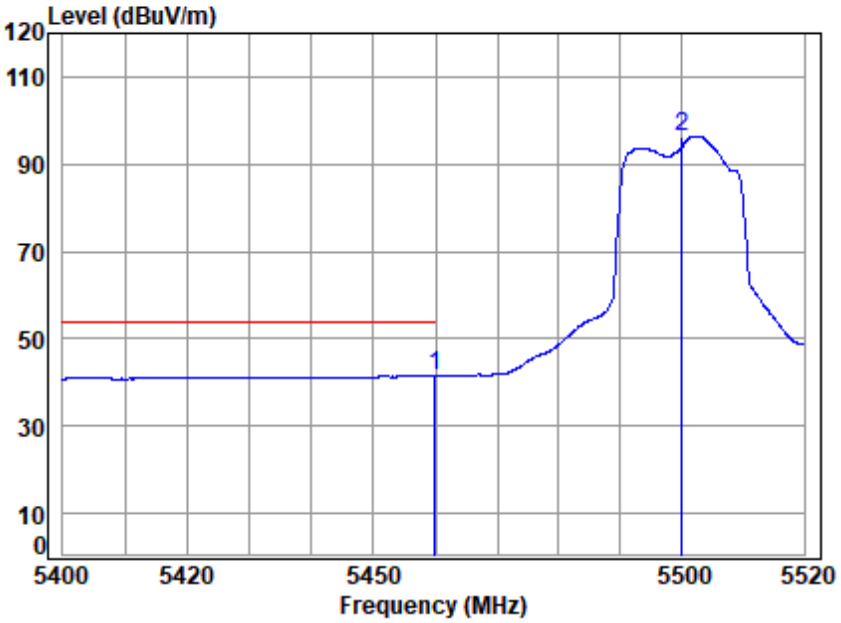
Test Mode: 16; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5500 Band edge
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.910	10.60	32.90	30.72	28.70	41.48	54.00	-12.52	Average
2	5500.000	10.58	32.90	30.70	83.70	96.48	------	------	Average

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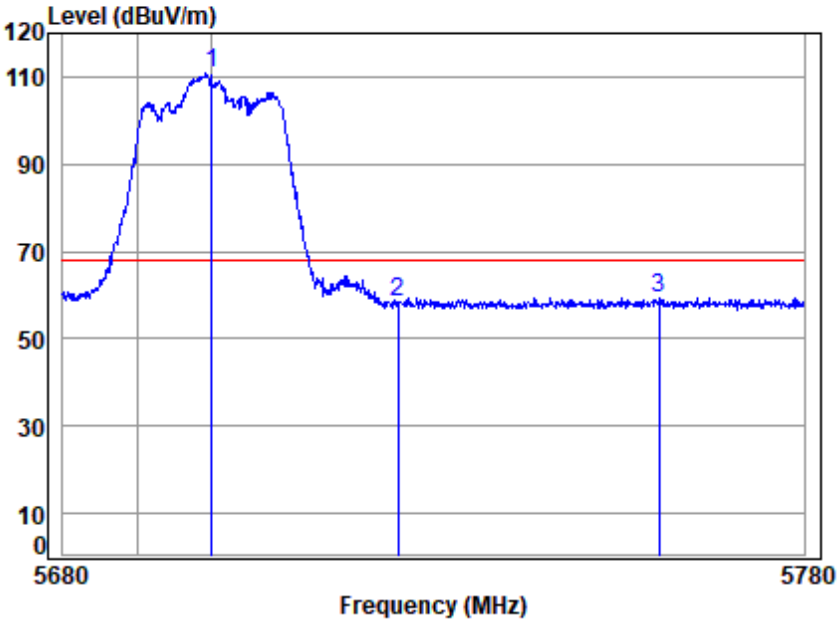
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5700 Band edge
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	97.66	110.80	68.20	42.60	peak
2	5725.000	10.68	33.25	30.61	45.00	58.32	68.20	-9.88	peak
3	5760.363	10.84	33.32	30.60	45.90	59.46	68.20	-8.74	peak

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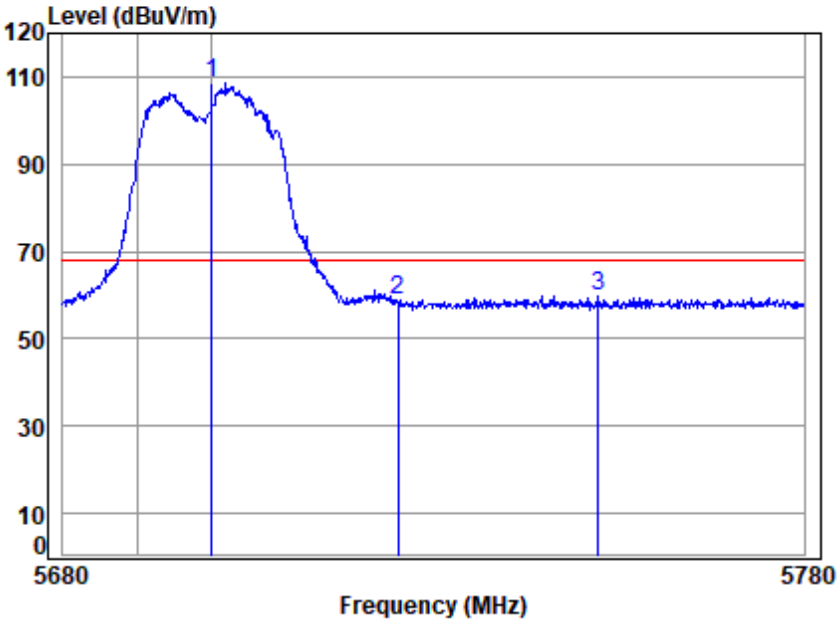
Test Mode: 16; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5700 Band edge
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	95.34	108.48	68.20	40.28	peak
2	5725.000	10.68	33.25	30.61	45.64	58.96	68.20	-9.24	peak
3	5752.125	10.80	33.30	30.60	46.15	59.65	68.20	-8.55	peak

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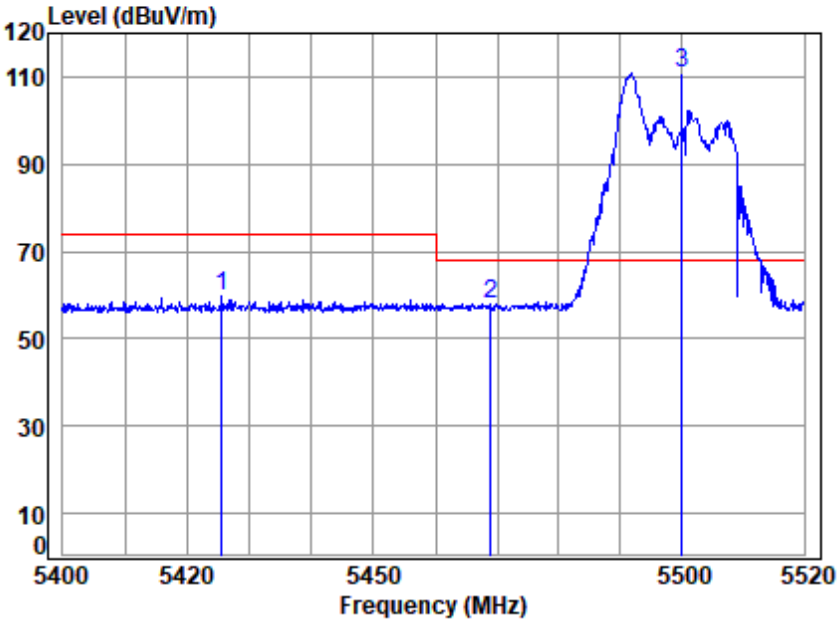
Test Mode: 16; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5500 Band edge
: 5GWIFI 11AX20_RU26_0

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5425.578	10.61	32.85	30.73	47.07	59.80	74.00	-14.20	peak
2	5468.918	10.59	32.90	30.71	45.34	58.12	68.20	-10.08	peak
3 pp	5500.000	10.58	32.90	30.70	98.12	110.90	68.20	42.70	peak

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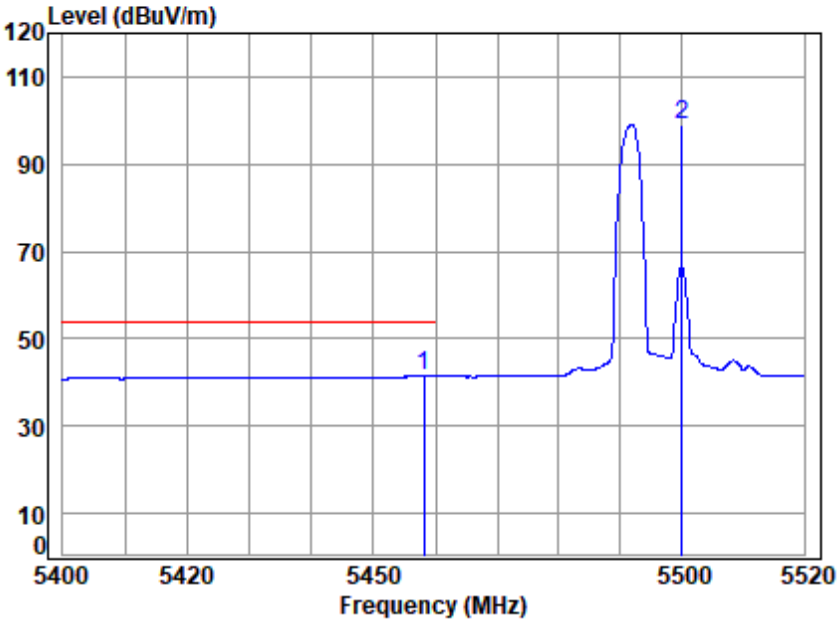
Test Mode: 16; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5500 Band edge
: 5GWIFI 11AX20_RU26_0

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5458.110	10.60	32.90	30.72	28.68	41.46	54.00	-12.54	Average
2	5500.000	10.58	32.90	30.70	86.26	99.04	------	------	Average

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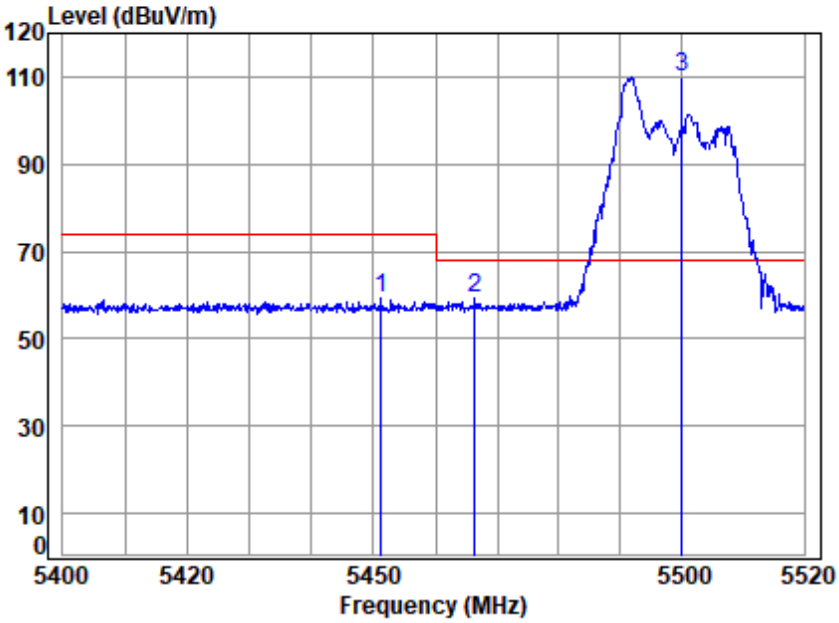
Test Mode: 16; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5500 Band edge
: 5GWIFI 11AX20_RU26_0

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5451.157	10.60	32.90	30.72	46.38	59.16	74.00	-14.84	peak
2	5466.395	10.59	32.90	30.71	46.60	59.38	68.20	-8.82	peak
3 pp	5500.000	10.58	32.90	30.70	97.16	109.94	68.20	41.74	peak

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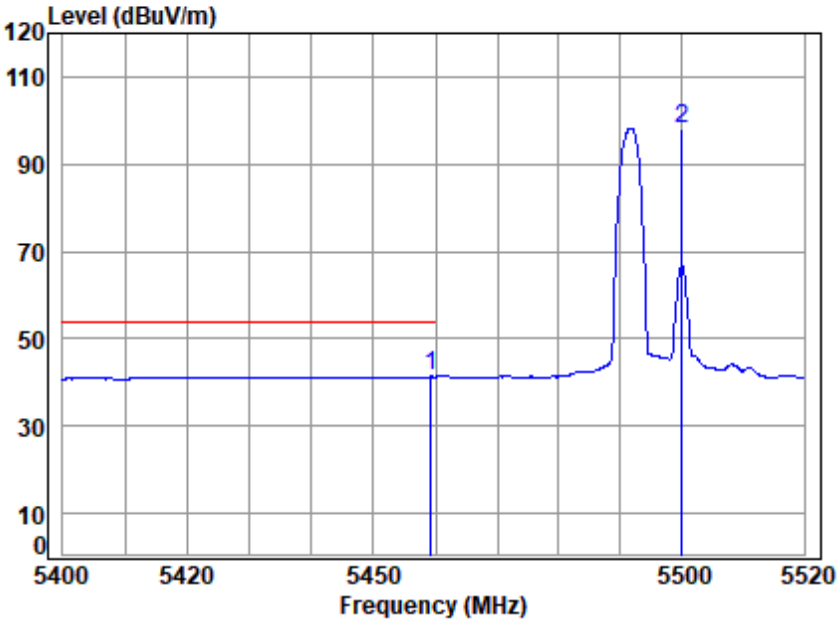
Test Mode: 16; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5500 Band edge
: 5GWIFI 11AX20_RU26_0

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.311	10.60	32.90	30.72	28.53	41.31	54.00	-12.69	Average
2	5500.000	10.58	32.90	30.70	85.45	98.23	------	------	Average

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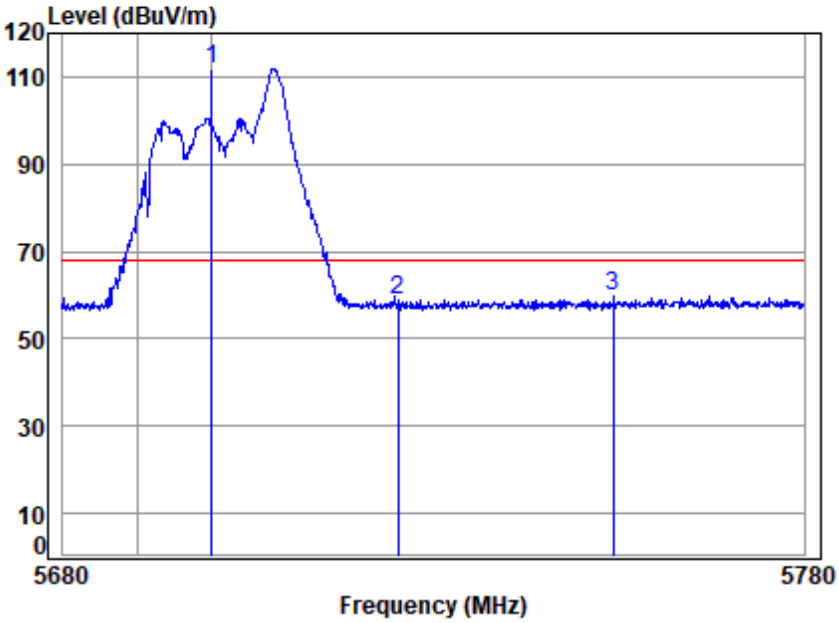
Test Mode: 16; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5700 Band edge
: 5GWIFI 11AX20_RU26_8

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	98.85	111.99	68.20	43.79	peak
2	5725.000	10.68	33.25	30.61	45.42	58.74	68.20	-9.46	peak
3	5754.133	10.81	33.31	30.60	46.20	59.72	68.20	-8.48	peak

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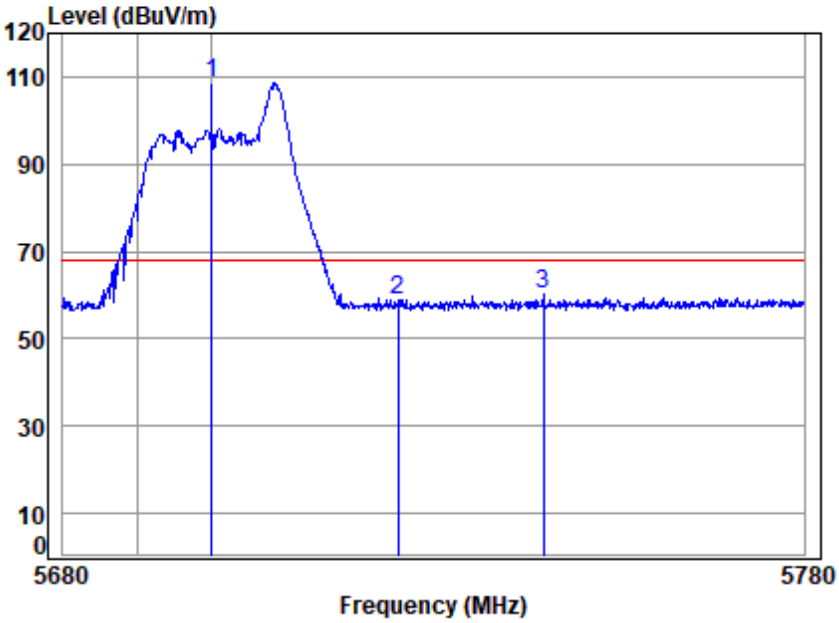
Test Mode: 16; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5700 Band edge
: 5GWIFI 11AX20_RU26_8

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	95.65	108.79	68.20	40.59	peak
2	5725.000	10.68	33.25	30.61	45.72	59.04	68.20	-9.16	peak
3	5744.601	10.77	33.29	30.60	46.57	60.03	68.20	-8.17	peak

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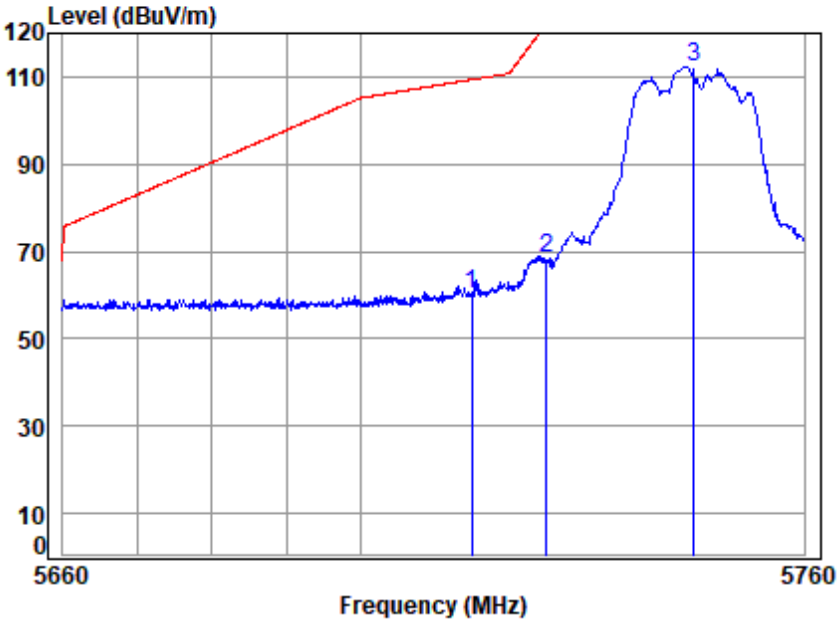
Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5745 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5715.000	10.63	33.23	30.61	47.03	60.28	109.40	-49.12	peak
2	5725.000	10.68	33.25	30.61	54.92	68.24	122.20	-53.96	peak
3	5745.000	10.76	33.29	30.60	98.89	112.34	------	------	Peak

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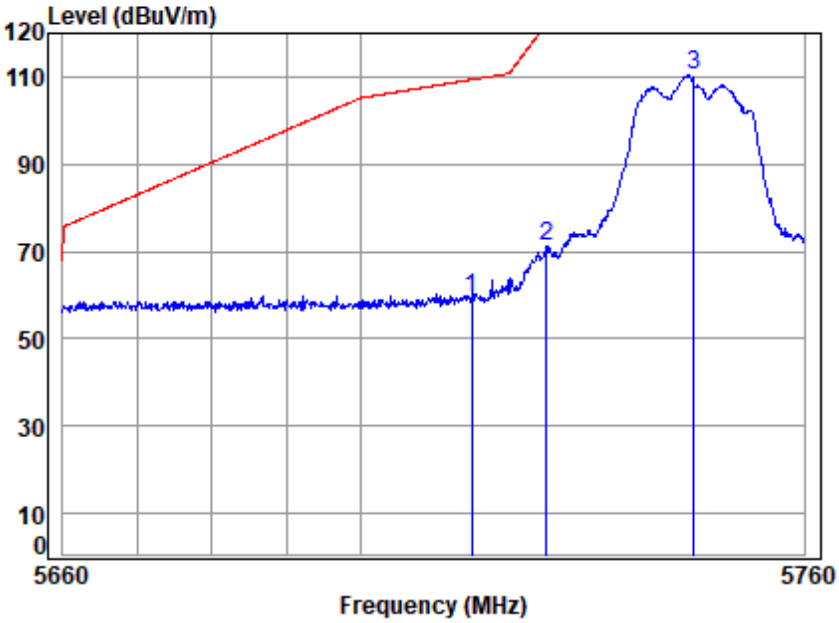
Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5745 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5715.000	10.63	33.23	30.61	46.24	59.49	109.40	-49.91	peak
2	5725.000	10.68	33.25	30.61	57.80	71.12	122.20	-51.08	peak
3	5745.000	10.77	33.29	30.60	96.90	110.36	------	------	peak

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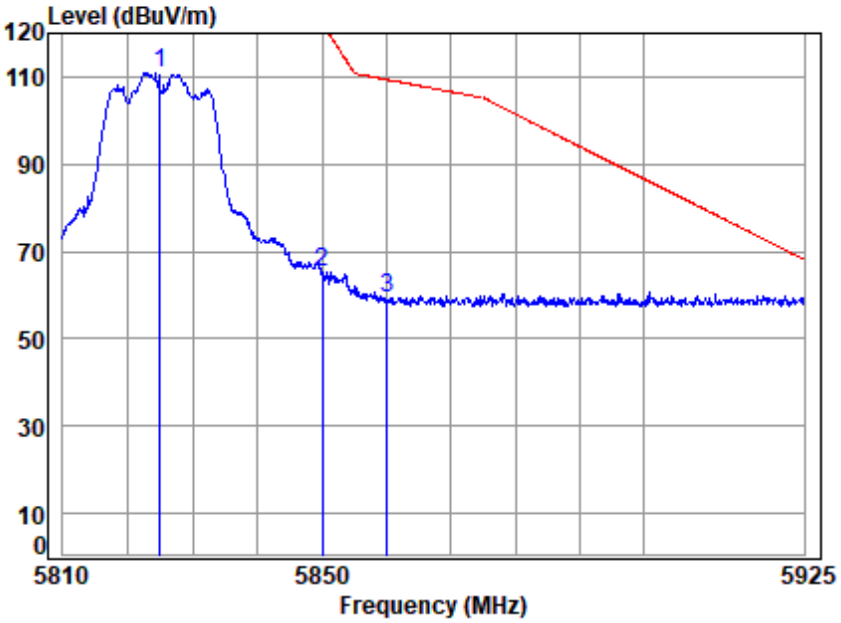
Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5825 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	96.96	110.88	------	------	peak
2	5850.000	10.95	33.60	30.56	51.06	65.05	122.20	-57.15	peak
3 pp	5860.000	10.94	33.58	30.56	45.27	59.23	109.40	-50.17	peak

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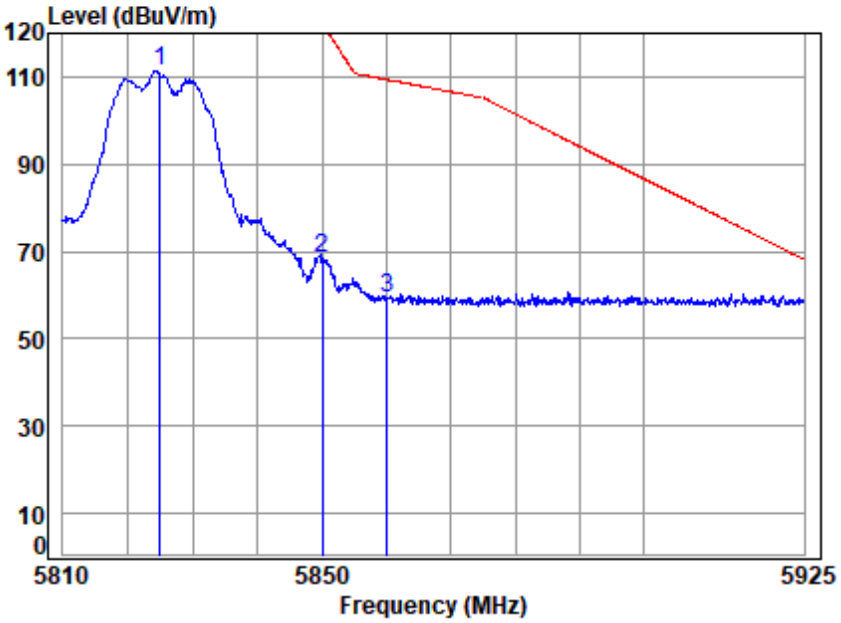
Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5825 Band edge
: 5GWIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	97.59	111.51	------	------	peak
2	5850.000	10.95	33.60	30.56	54.44	68.43	122.20	-53.77	peak
3 pp	5860.000	10.94	33.58	30.56	45.45	59.41	109.40	-49.99	peak

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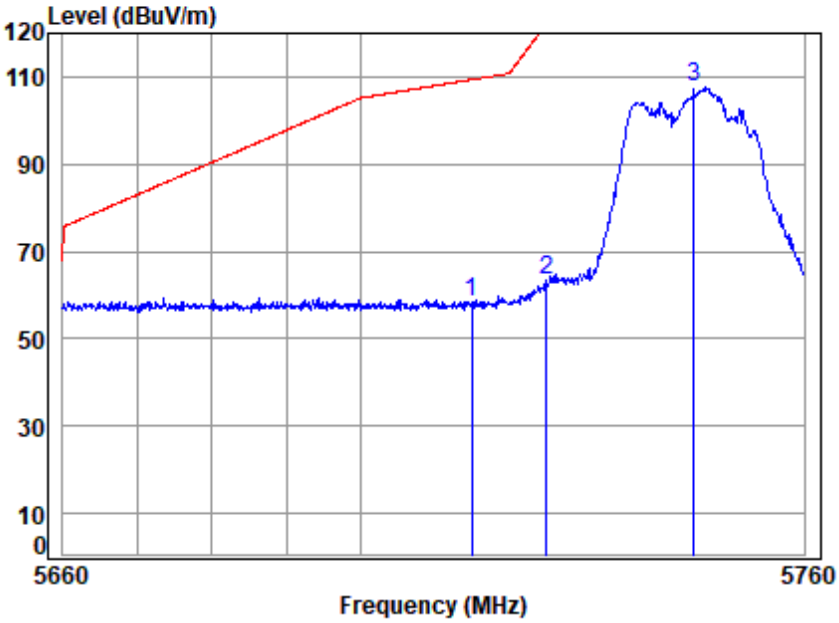
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5745 Band edge
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5715.000	10.63	33.23	30.61	45.21	58.46	109.40	-50.94	peak
2	5725.000	10.68	33.25	30.61	50.02	63.34	122.20	-58.86	peak
3	5745.000	10.77	33.29	30.60	94.21	107.67	------	------	peak

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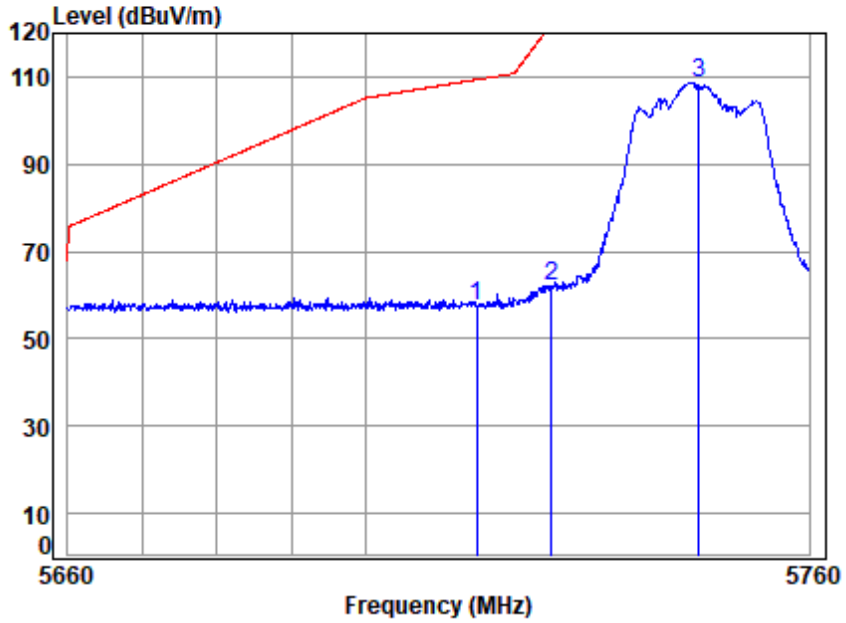
Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5745 Band edge
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5715.000	10.63	33.23	30.61	44.35	57.60	109.40	-51.80	peak
2	5725.000	10.68	33.25	30.61	48.92	62.24	122.20	-59.96	peak
3	5745.000	10.77	33.29	30.60	95.30	108.76	------	------	peak

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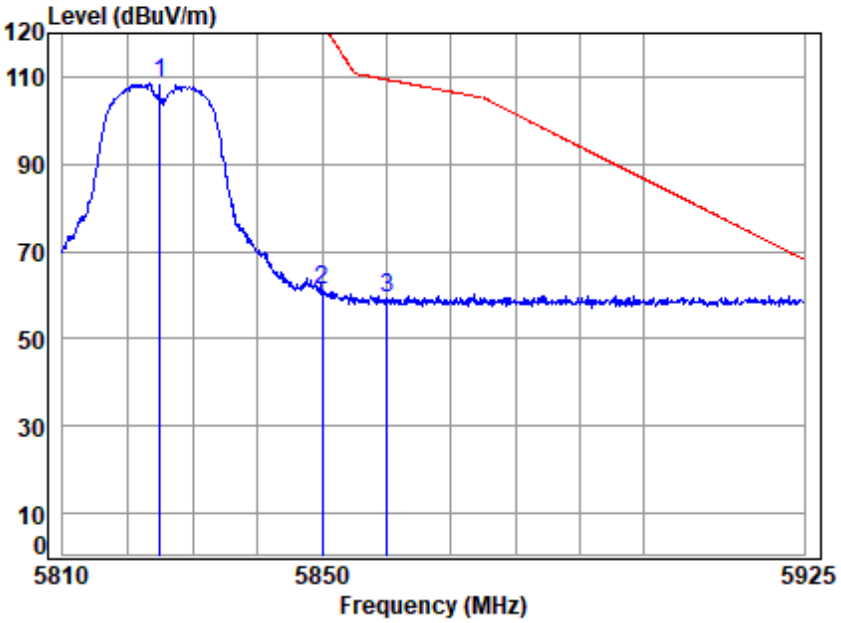
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5825 Band edge
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	94.45	108.37	------	------	peak
2	5850.000	10.95	33.60	30.56	46.95	60.94	122.20	-61.26	peak
3 pp	5860.000	10.94	33.58	30.56	45.13	59.09	109.40	-50.31	peak

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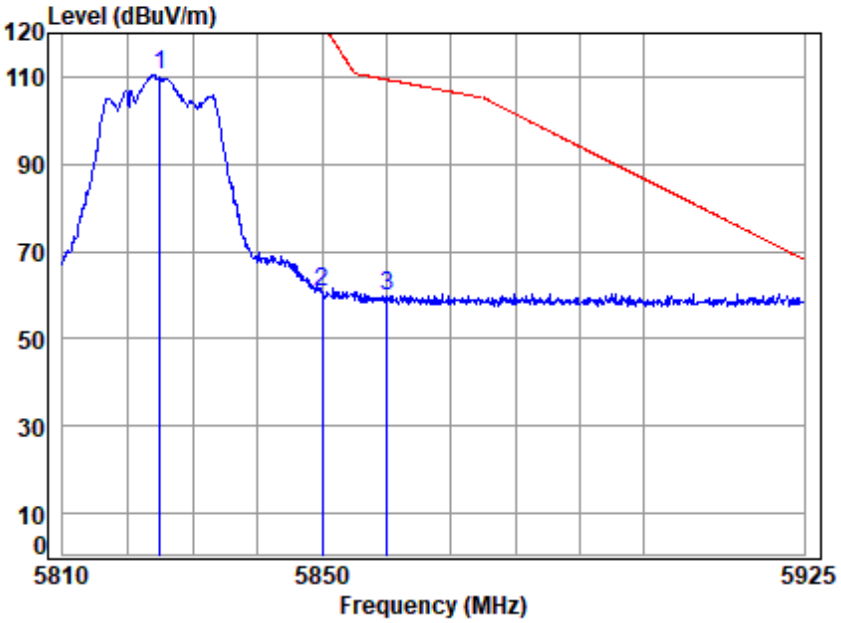
Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5825 Band edge
: 5GWIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	96.43	110.35	------	------	peak
2	5850.000	10.95	33.60	30.56	46.55	60.54	122.20	-61.66	peak
3 pp	5860.000	10.94	33.58	30.56	45.75	59.71	109.40	-49.69	peak

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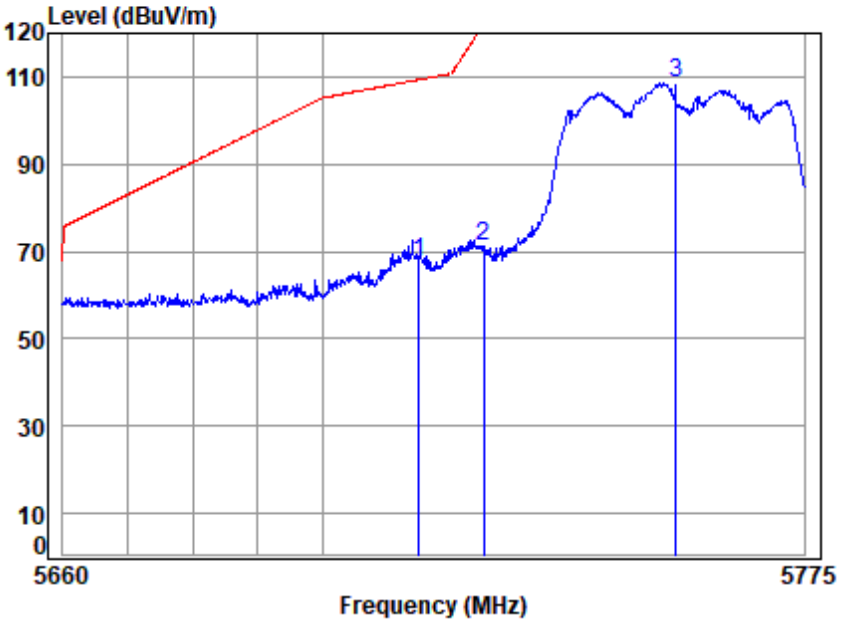
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5755 Band edge
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5715.000	10.63	33.23	30.61	54.40	67.65	109.40	-41.75	peak
2	5725.000	10.68	33.25	30.61	57.99	71.31	122.20	-50.89	peak
3	5755.000	10.81	33.31	30.60	94.87	108.39	------	------	peak

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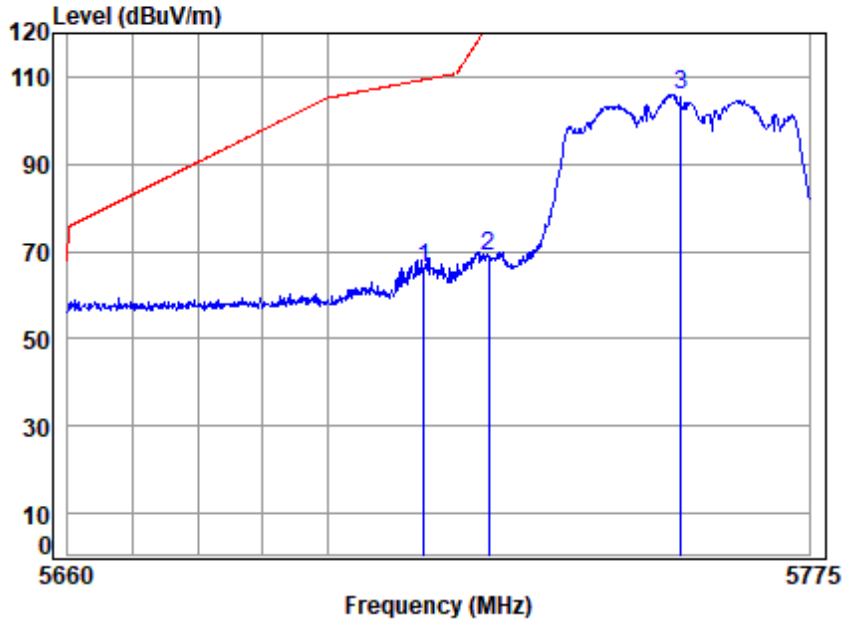
Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5755 Band edge
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5715.000	10.63	33.23	30.61	52.72	65.97	109.40	-43.43	peak
2	5725.000	10.68	33.25	30.61	55.58	68.90	122.20	-53.30	peak
3	5755.000	10.81	33.31	30.60	92.43	105.95	------	------	peak

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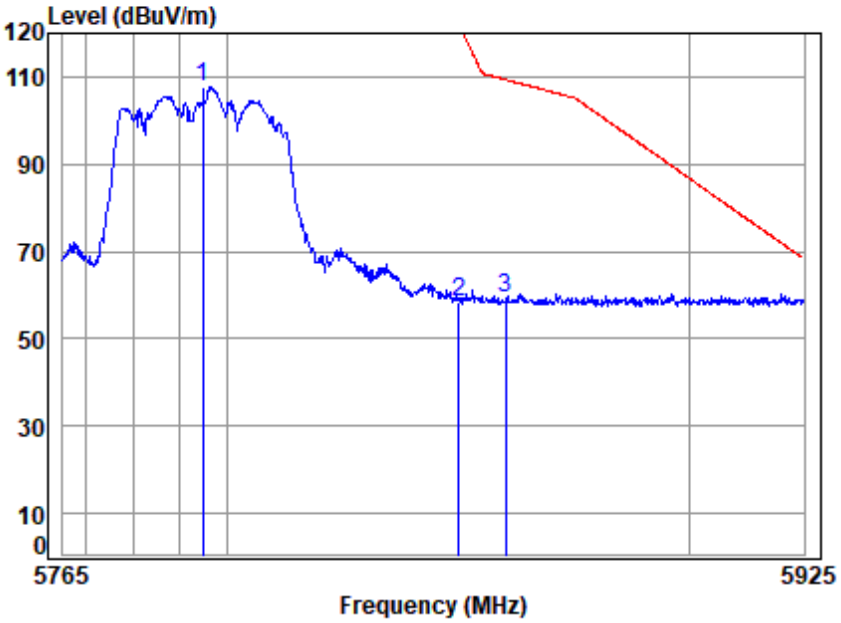
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5795 Band edge
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	93.81	107.62	------	------	peak
2	5850.000	10.95	33.60	30.56	44.50	58.49	122.20	-63.71	peak
3 pp	5860.000	10.94	33.58	30.56	45.30	59.26	109.40	-50.14	peak

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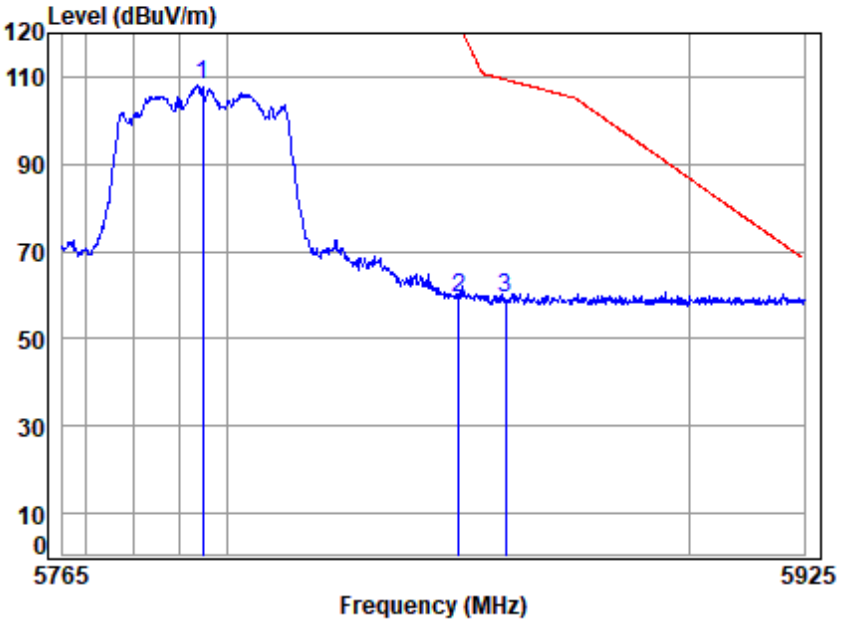
Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5795 Band edge
: 5GWIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	94.12	107.93	------	------	peak
2	5850.000	10.95	33.60	30.56	45.20	59.19	122.20	-63.01	peak
3 pp	5860.000	10.94	33.58	30.56	45.14	59.10	109.40	-50.30	peak

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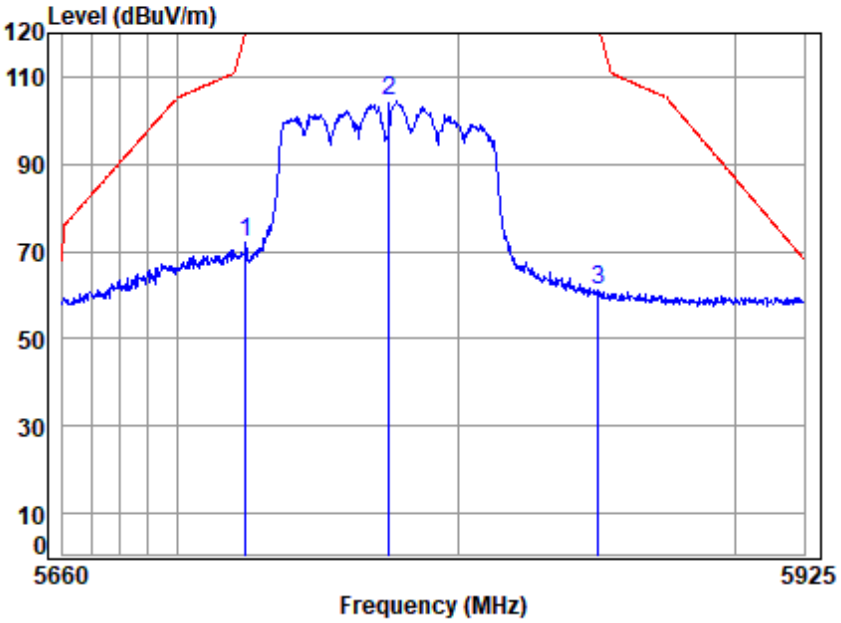
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5775 Band edge
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5724.332	10.67	33.25	30.61	58.99	72.30	120.68	-48.38	peak
2	5775.000	10.91	33.35	30.59	90.83	104.50	------	------	peak
3	5850.377	10.95	33.60	30.56	46.94	60.93	121.34	-60.41	peak

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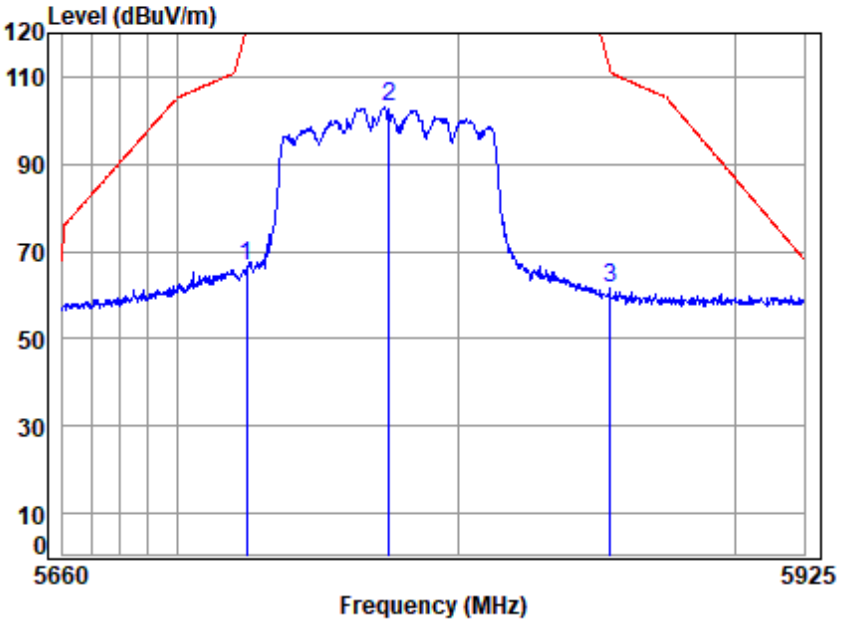
Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5775 Band edge
: 5GWIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5724.594	10.67	33.25	30.61	53.20	66.51	121.27	-54.76	peak
2	5775.000	10.91	33.35	30.59	89.53	103.20	------	------	peak
3 pp	5854.394	10.95	33.59	30.56	47.52	61.50	112.18	-50.68	peak

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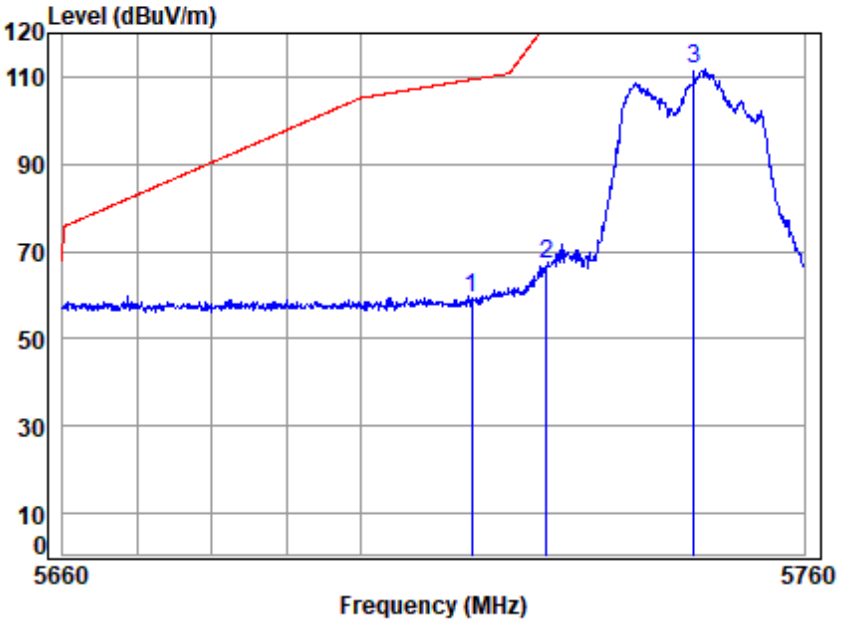
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5745 Band edge
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5715.000	10.63	33.23	30.61	45.89	59.14	109.40	-50.26	peak
2	5725.000	10.68	33.25	30.61	53.82	67.14	122.20	-55.06	peak
3	5745.000	10.77	33.29	30.60	98.27	111.73	------	------	peak

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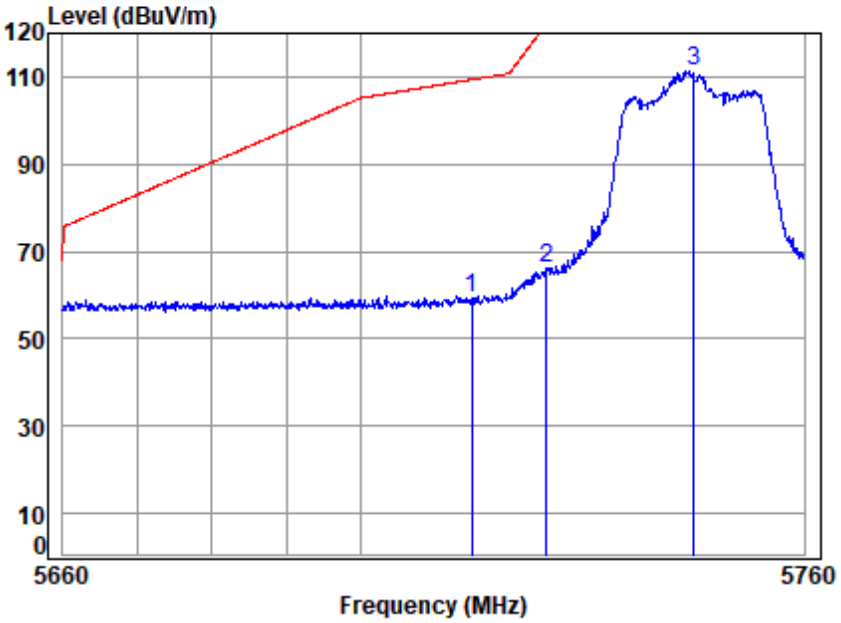
Test Mode: 17; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5745 Band edge
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5715.000	10.63	33.23	30.61	45.88	59.13	109.40	-50.27	peak
2	5725.000	10.68	33.25	30.61	52.84	66.16	122.20	-56.04	peak
3	5745.000	10.77	33.29	30.60	97.76	111.22	------	------	peak

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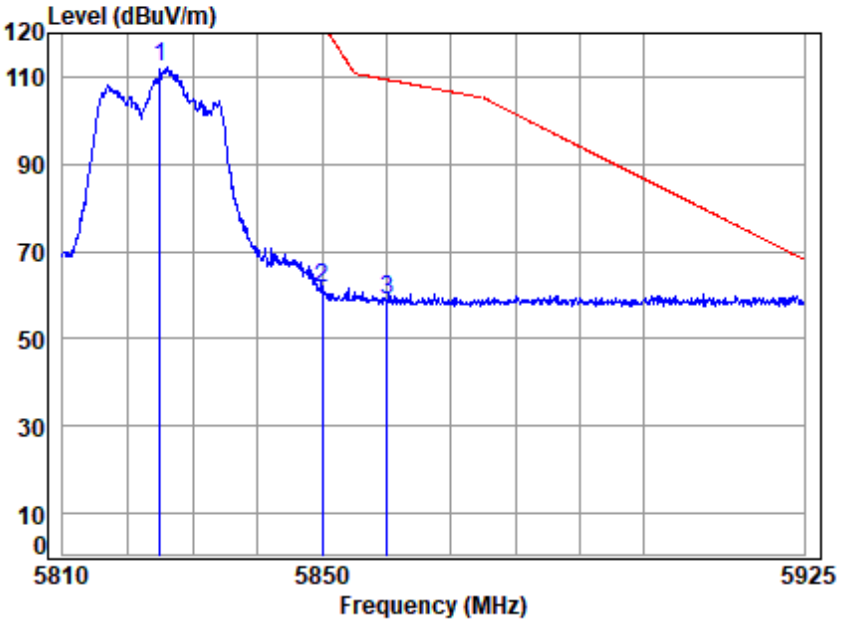
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5825 Band edge
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	98.12	112.04	------	------	peak
2	5850.000	10.95	33.60	30.56	47.67	61.66	122.20	-60.54	peak
3 pp	5860.000	10.94	33.58	30.56	45.12	59.08	109.40	-50.32	peak

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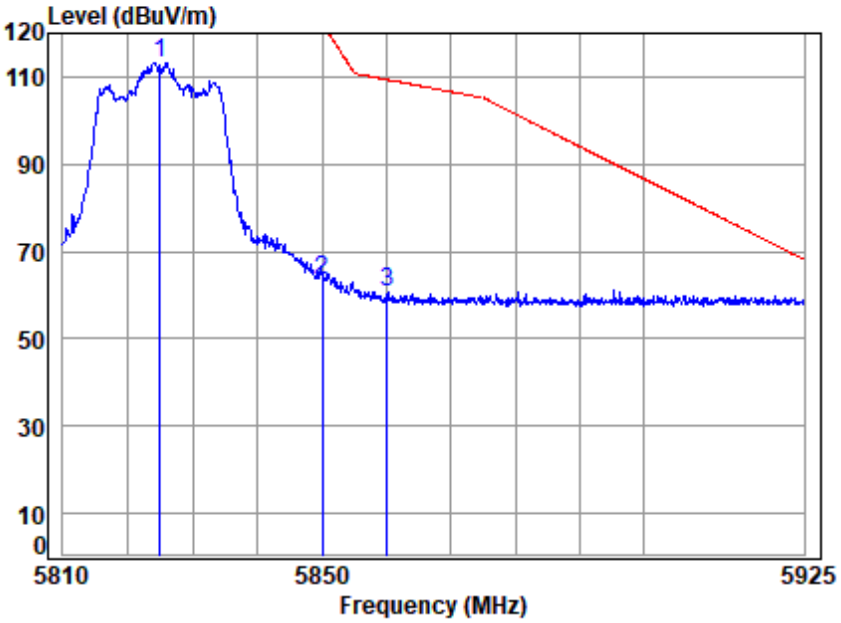
Test Mode: 17; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5825 Band edge
: 5GWIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	99.11	113.03	------	------	peak
2	5850.000	10.95	33.60	30.56	49.50	63.49	122.20	-58.71	peak
3 pp	5860.000	10.94	33.58	30.56	46.89	60.85	109.40	-48.55	peak

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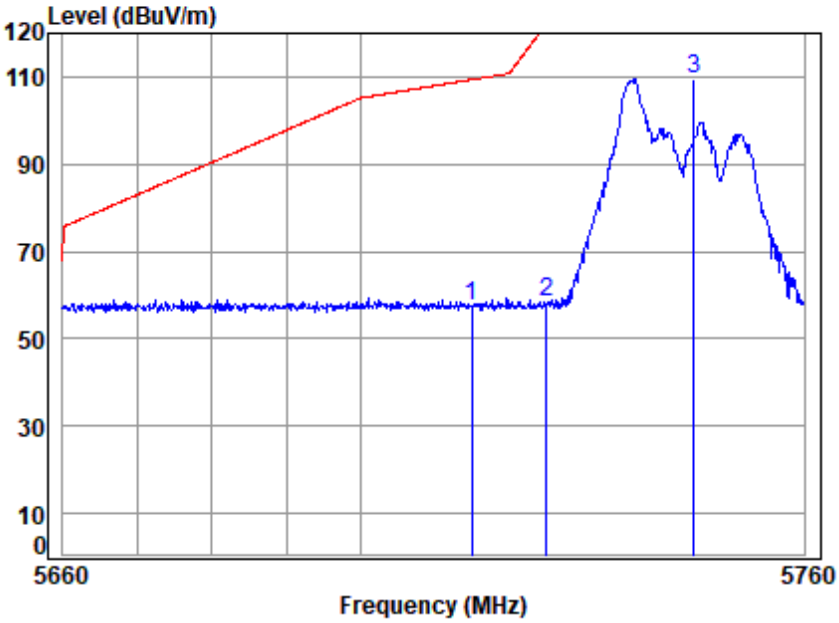
Test Mode: 17; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5745 Band edge
: 5GWIFI 11AX20_RU26_0

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5715.000	10.63	33.23	30.61	44.14	57.39	109.40	-52.01	peak
2	5725.000	10.68	33.25	30.61	45.20	58.52	122.20	-63.68	peak
3	5745.000	10.77	33.29	30.60	95.93	109.39	------	------	peak

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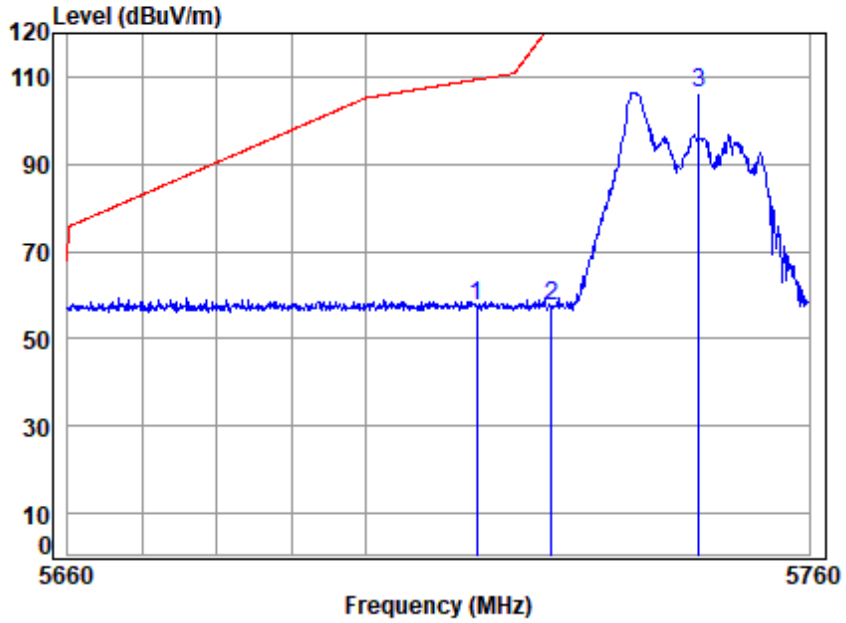
Test Mode: 17; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5745 Band edge
: 5GWIFI 11AX20_RU26_0

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5715.000	10.63	33.23	30.61	44.11	57.36	109.40	-52.04	peak
2	5725.000	10.68	33.25	30.61	44.39	57.71	122.20	-64.49	peak
3	5745.000	10.77	33.29	30.60	92.86	106.32	------	------	peak

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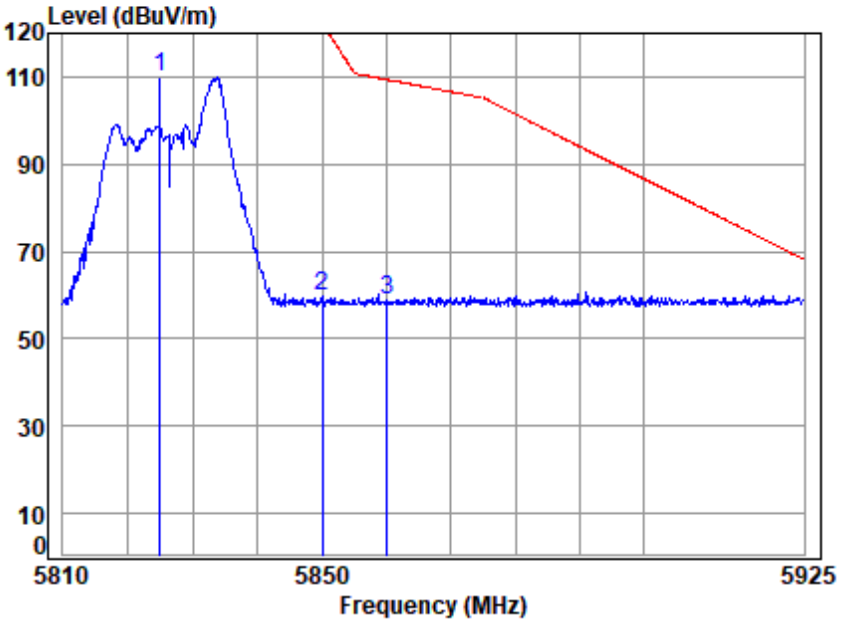
Test Mode: 17; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL
Job No : 01307WM
Mode : 5825 Band edge
: 5GWIFI 11AX20_RU26_8

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	95.87	109.79	------	------	peak
2	5850.000	10.95	33.60	30.56	45.89	59.88	122.20	-62.32	peak
3 pp	5860.000	10.94	33.58	30.56	44.69	58.65	109.40	-50.75	peak

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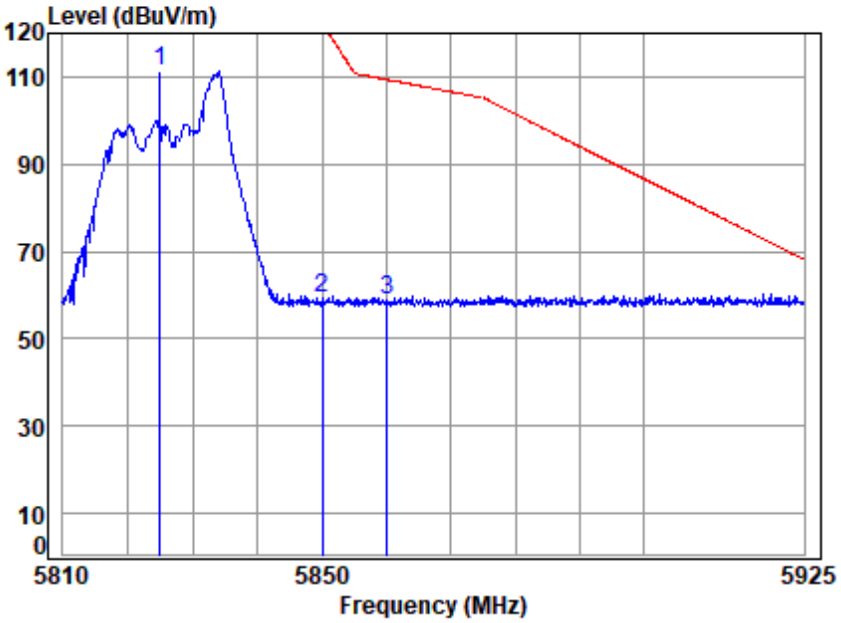
Test Mode: 17; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL
Job No : 01307WM
Mode : 5825 Band edge
: 5GWIFI 11AX20_RU26_8

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	97.33	111.25	------	------	peak
2	5850.000	10.95	33.60	30.56	45.35	59.34	122.20	-62.86	peak
3 pp	5860.000	10.94	33.58	30.56	44.71	58.67	109.40	-50.73	peak

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7.6 Channel Move Time

Test Requirement KDB 905462 D02 Section 5.1

Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: °C Humidity: % RH Atmospheric Pressure: mbar

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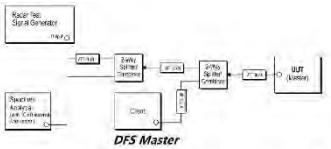
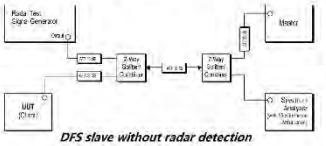
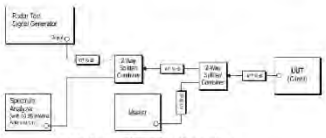
7.6.2 Test Setup Diagram



DFS Master



DFS slave without radar detection



DFS slave with radar detection

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7.6.3 Measurement Procedure and Data

1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.

2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.

3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.

4) EUT will associate with the master at channel. The file “iperf.exe” specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.

5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.

6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.

7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.

8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

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7.7 Duty Cycle

Test Requirement KDB 789033 D02 II B 1
Test Method: KDB 789033 II B 1

7.7.1 E.U.T. Operation

Operating Environment:
Temperature: 22.0 °C Humidity: 45.7 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	12	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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.

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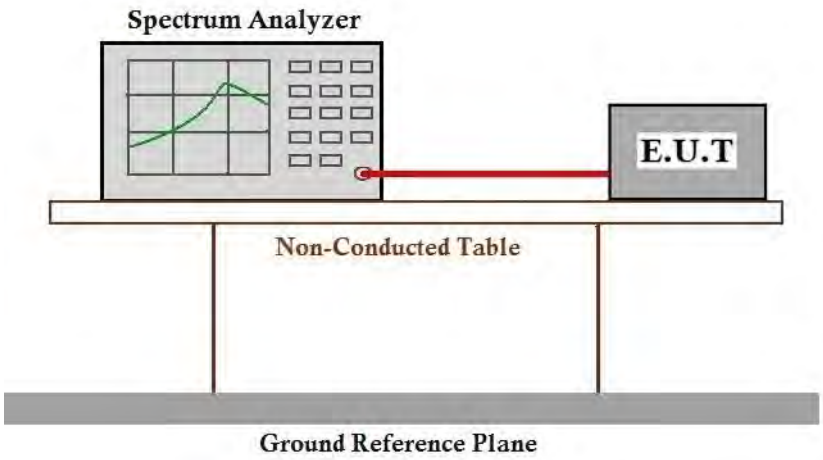
7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

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7.8 99% Bandwidth

Test Requirement N/A

Test Method: KDB 789033 II D

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.0 °C Humidity: 45.7 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	12	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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.

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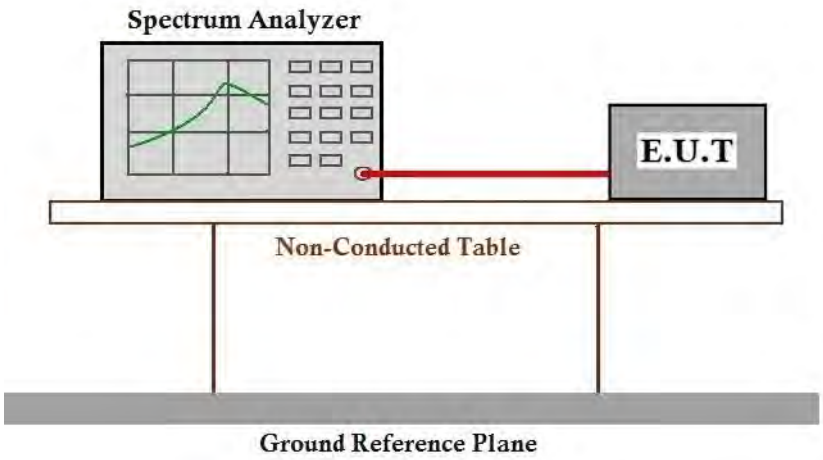
7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

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7.9 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II C 1

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.0 °C Humidity: 45.7 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	12	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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.

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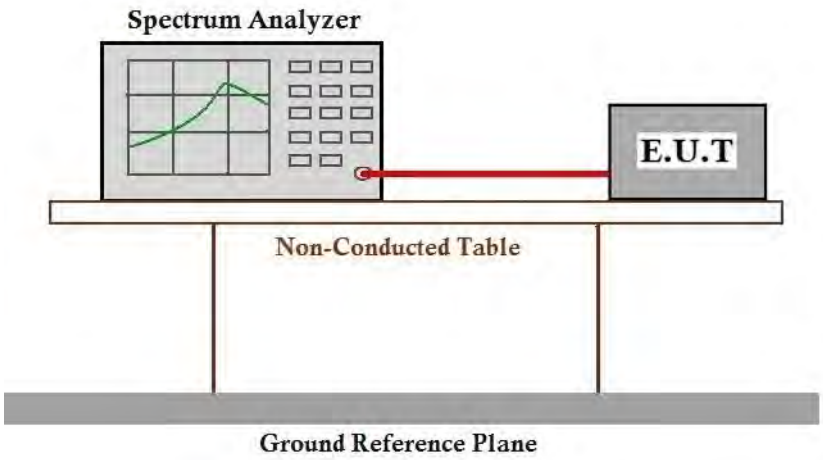
7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

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7.10 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)
Test Method: KDB 789033 D02 II C 2

Limit:

Frequency band(MHz)	Limit
5725-5850	⩾500 kHz

7.10.1 E.U.T. Operation

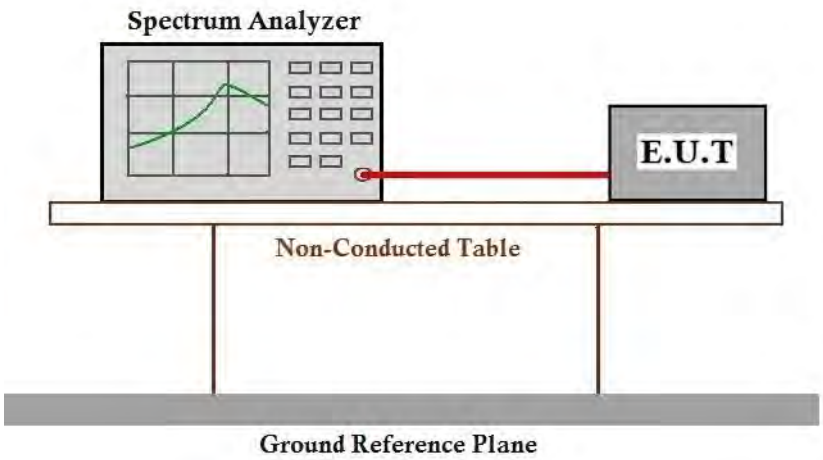
Operating Environment:

Temperature: 22.0 °C Humidity: 45.7 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	12	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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

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7.11 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II F

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 22.0 °C Humidity: 45.7 % RH Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	12	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 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.

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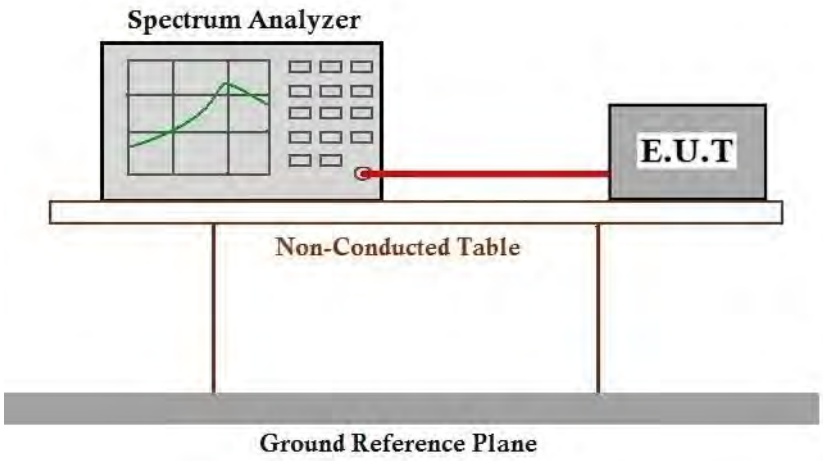
7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.12 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

7.12.1 Measurement Procedure and Data

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

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7.13 Non-occupancy period

Test Requirement KDB 905462 D02 Section 5.1

Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 22.4 °C Humidity: 37.0 % RH Atmospheric Pressure: 1020 mbar

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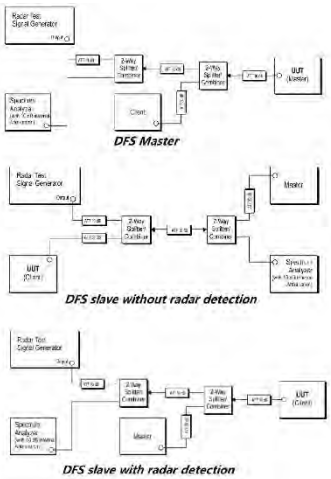
7.13.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	Normal operating_Keep the EUT communication with the companion device.

7.13.3 Test Setup Diagram



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7.13.4 Measurement Procedure and Data

1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.

2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.

3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.

4) EUT will associate with the master at channel. The file “iperf.exe” specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.

5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.

6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.

7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.

8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details

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7.14 Channel Closing Transmission Time

Test Requirement KDB 905462 D02 Section 5.1

Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.14.1 E.U.T. Operation

Operating Environment:

Temperature: 22.4 °C Humidity: 36.8 % RH Atmospheric Pressure: 1020 mbar

7.14.2 Test Mode Description

Pre-scan /	Mode	Description

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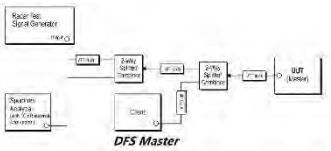
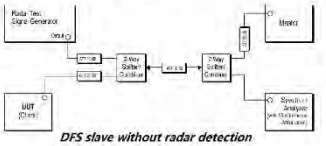
Final test	Code	
Final test	13	Normal operating_Keep the EUT communication with the companion device.

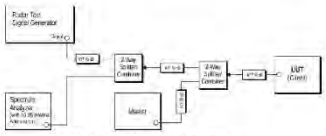
7.14.3 Test Setup Diagram



DFS Master



DFS slave without radar detection



DFS slave with radar detection

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7.14.4 Measurement Procedure and Data

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2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.

3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.

4) EUT will associate with the master at channel. The file “iperf.exe” specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.

5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.

6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.

7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.

8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

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8 Test Setup Photo

Refer to Appendix A.2 WLAN Setup Photos.

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos

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10 Appendix

1. Duty Cycle

1.1 Ant21

1.1.1 Test Result

Ant21									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	MIMO	5180	/	/	2.086	2.104	99.14	0.04	0.03
		5200	/	/	2.093	2.110	99.19	0.04	0.07
		5240	/	/	2.093	2.111	99.15	0.04	0.03
		5260	/	/	2.088	2.104	99.24	0.03	0.03
		5300	/	/	2.093	2.111	99.15	0.04	0.03
		5320	/	/	2.093	2.110	99.19	0.04	0.03
		5500	/	/	2.093	2.111	99.15	0.04	0.07
		5580	/	/	2.095	2.112	99.20	0.04	0.04
		5700	/	/	2.087	2.104	99.19	0.04	0.07
		5745	/	/	2.087	2.105	99.14	0.04	0.07
		5785	/	/	2.093	2.111	99.15	0.04	0.07
		5825	/	/	2.093	2.110	99.19	0.04	0.07
		5720	/	/	2.093	2.110	99.19	0.04	0.07
802.11n (HT20)	MIMO	5180	/	/	5.426	5.445	99.65	0.02	0.03
		5200	/	/	5.422	5.440	99.67	0.01	0.04
		5240	/	/	5.422	5.440	99.67	0.01	0.04
		5260	/	/	5.422	5.439	99.69	0.01	0.04
		5300	/	/	5.422	5.440	99.67	0.01	0.04
		5320	/	/	5.423	5.440	99.69	0.01	0.04
		5500	/	/	5.426	5.443	99.69	0.01	0.00
		5580	/	/	5.426	5.443	99.69	0.01	0.00
		5700	/	/	5.422	5.439	99.69	0.01	0.04
		5745	/	/	5.422	5.440	99.67	0.01	0.04
		5785	/	/	5.422	5.439	99.69	0.01	0.04
		5825	/	/	5.423	5.440	99.69	0.01	0.04
		5720	/	/	5.422	5.439	99.69	0.01	0.04
802.11n (HT40)	MIMO	5190	/	/	5.426	5.443	99.69	0.01	0.03
		5230	/	/	5.426	5.443	99.69	0.01	0.03
		5270	/	/	5.422	5.440	99.67	0.01	0.04
		5310	/	/	5.427	5.443	99.71	0.01	0.03
		5510	/	/	5.422	5.440	99.67	0.01	0.04
		5550	/	/	5.422	5.439	99.69	0.01	0.04
		5670	/	/	5.426	5.443	99.69	0.01	0.03

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		5755	/	/	5.427	5.443	99.71	0.01	0.03
		5795	/	/	5.422	5.440	99.67	0.01	0.04
		5710	/	/	5.427	5.443	99.71	0.01	0.03
802.11ac (VHT20)	MIMO	5180	/	/	5.422	5.440	99.67	0.01	0.04
		5200	/	/	5.422	5.440	99.67	0.01	0.04
		5240	/	/	5.427	5.445	99.67	0.01	0.03
		5260	/	/	5.397	5.414	99.69	0.01	0.00
		5300	/	/	5.422	5.439	99.69	0.01	0.04
		5320	/	/	5.422	5.440	99.67	0.01	0.04
		5500	/	/	5.422	5.440	99.67	0.01	0.04
		5580	/	/	5.422	5.440	99.67	0.01	0.04
		5700	/	/	5.422	5.440	99.67	0.01	0.04
		5745	/	/	5.426	5.445	99.65	0.02	0.03
		5785	/	/	5.428	5.445	99.69	0.01	0.03
		5825	/	/	5.426	5.445	99.65	0.02	0.03
		5720	/	/	5.422	5.440	99.67	0.01	0.04
802.11ac (VHT40)	MIMO	5190	/	/	5.422	5.440	99.67	0.01	0.04
		5230	/	/	5.427	5.444	99.69	0.01	0.00
		5270	/	/	5.422	5.440	99.67	0.01	0.04
		5310	/	/	5.422	5.439	99.69	0.01	0.04
		5510	/	/	5.422	5.440	99.67	0.01	0.04
		5550	/	/	5.422	5.438	99.71	0.01	0.00
		5670	/	/	5.422	5.437	99.72	0.01	0.00
		5755	/	/	5.427	5.443	99.71	0.01	0.00
		5795	/	/	5.422	5.440	99.67	0.01	0.04
		5710	/	/	5.426	5.443	99.69	0.01	0.03
802.11ac (VHT80)	MIMO	5210	/	/	5.422	5.440	99.67	0.01	0.04
		5290	/	/	5.422	5.438	99.71	0.01	0.00
		5530	/	/	5.428	5.444	99.71	0.01	0.02
		5610	/	/	5.428	5.444	99.71	0.01	0.02
		5775	/	/	5.428	5.444	99.71	0.01	0.02
		5690	/	/	5.428	5.444	99.71	0.01	0.02
802.11ac (VHT160)	MIMO	5570	/	/	5.422	5.438	99.71	0.01	0.00
		5250	/	/	5.422	5.438	99.71	0.01	0.04
802.11ax (HE20)	MIMO	5180	RU242	Left	5.444	5.462	99.67	0.01	0.03
		5200	RU242	Left	5.444	5.462	99.67	0.01	0.03
		5240	RU242	Left	5.438	5.455	99.69	0.01	0.04
		5260	RU242	Left	5.438	5.455	99.69	0.01	0.04
		5300	RU242	Left	5.444	5.460	99.71	0.01	0.03
		5320	RU242	Left	5.437	5.455	99.67	0.01	0.04
		5500	RU242	Left	5.437	5.455	99.67	0.01	0.04
		5580	RU242	Left	5.440	5.455	99.73	0.01	0.00
		5700	RU242	Left	5.438	5.455	99.69	0.01	0.04
		5745	RU242	Left	5.440	5.458	99.67	0.01	0.04
		5785	RU242	Left	5.439	5.457	99.67	0.01	0.04
		5825	RU242	Left	5.443	5.461	99.67	0.01	0.07
		5720	RU242	Left	5.443	5.462	99.65	0.02	0.03

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802.11ax (HE40)	MIMO	5190	RU484	Left	5.443	5.460	99.69	0.01	0.03
		5230	RU484	Left	5.440	5.456	99.71	0.01	0.00
		5270	RU484	Left	5.438	5.455	99.69	0.01	0.04
		5310	RU484	Left	5.438	5.455	99.69	0.01	0.04
		5510	RU484	Left	5.439	5.455	99.71	0.01	0.00
		5550	RU484	Left	5.440	5.455	99.73	0.01	0.00
		5670	RU484	Left	5.440	5.457	99.69	0.01	0.04
		5755	RU484	Left	5.440	5.455	99.73	0.01	0.00
		5795	RU484	Left	5.438	5.455	99.69	0.01	0.04
		5710	RU484	Left	5.438	5.455	99.69	0.01	0.04
802.11ax (HE80)	MIMO	5210	RU996	Left	5.445	5.461	99.71	0.01	0.02
		5290	RU996	Left	5.445	5.461	99.71	0.01	0.02
		5530	RU996	Left	5.445	5.461	99.71	0.01	0.02
		5610	RU996	Left	5.445	5.461	99.71	0.01	0.00
		5775	RU996	Left	5.445	5.461	99.71	0.01	0.02
		5690	RU996	Left	5.445	5.461	99.71	0.01	0.00
802.11ax (HE160)	MIMO	5570	2xRU996	Left	5.445	5.461	99.71	0.01	0.00
		5250	2xRU996	Left	5.445	5.461	99.71	0.01	0.00

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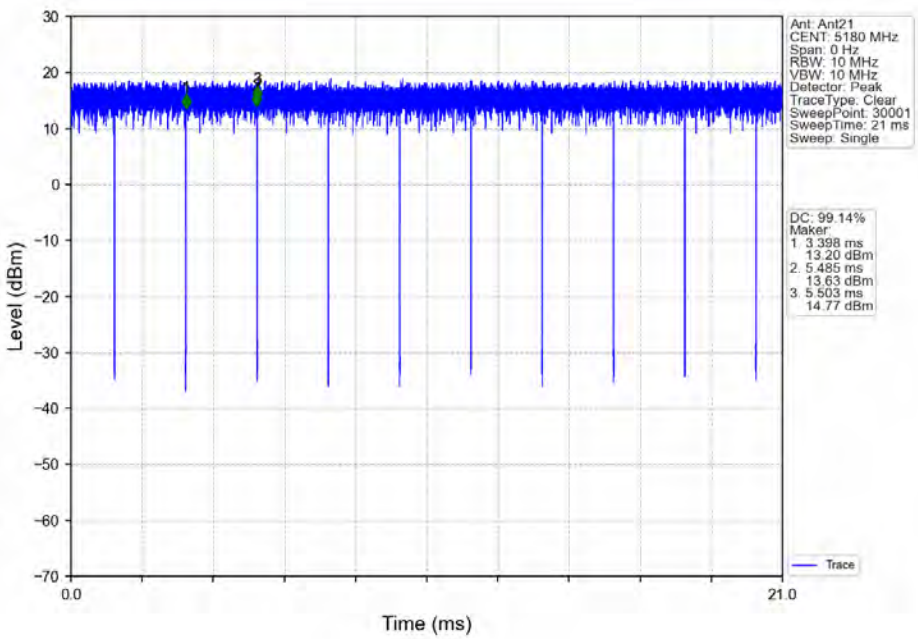
1.1.2 Test Graph

802.11a_LCH_5180MHz_Ant21_NTNV

802.11a_MCH_5200MHz_Ant21_NTNV

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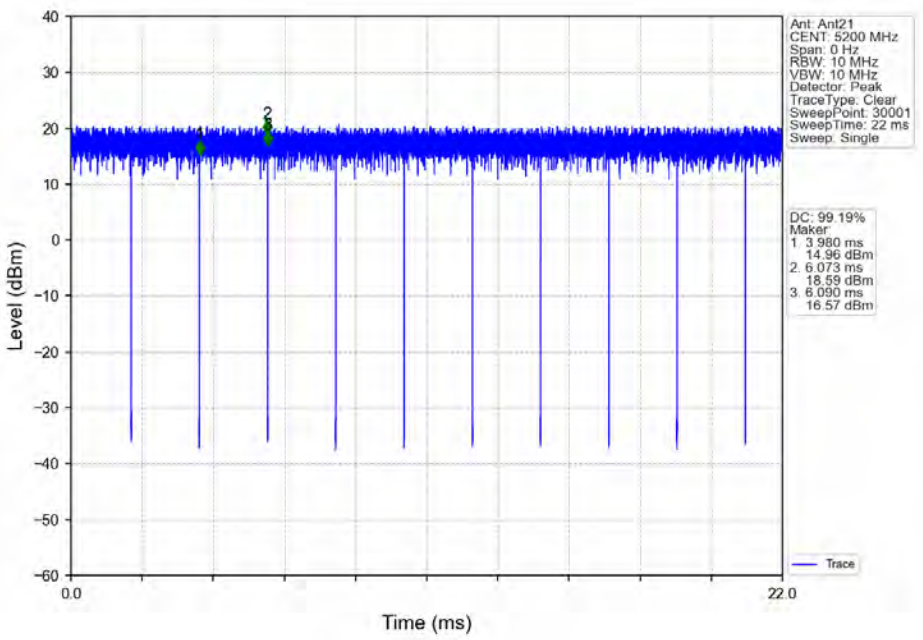

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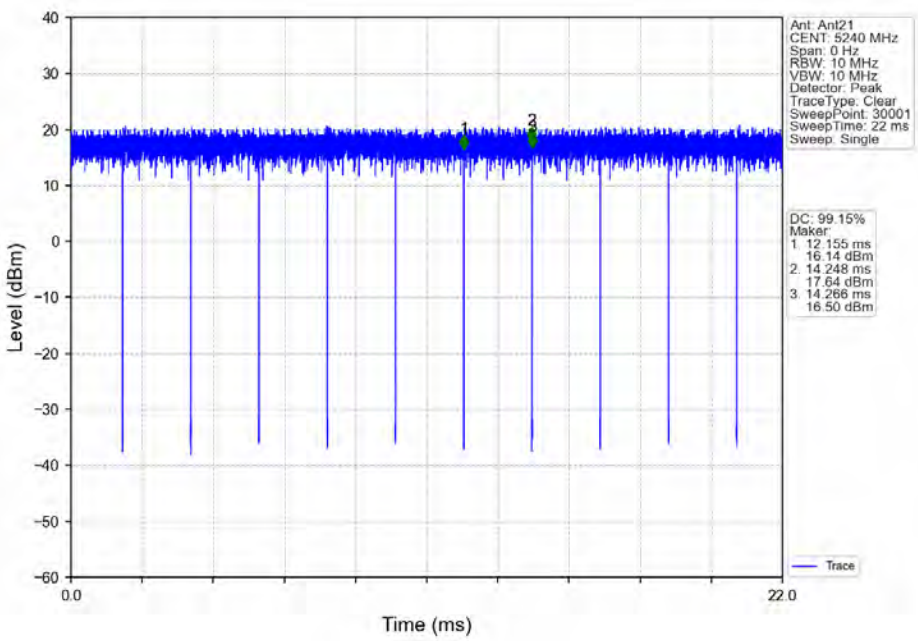
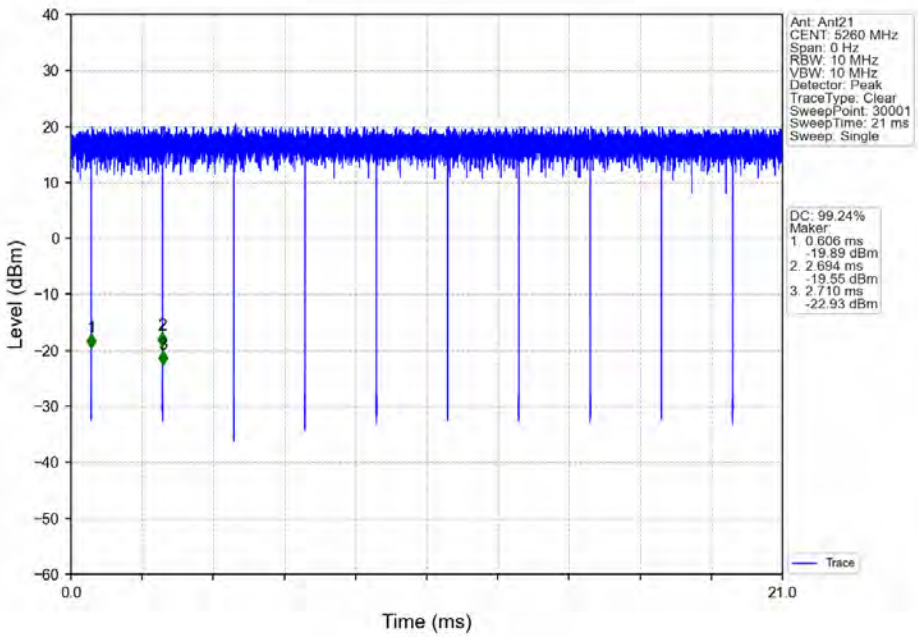
802.11a_HCH_5240MHz_Ant21_NTNV



802.11a_LCH_5260MHz_Ant21_NTNV



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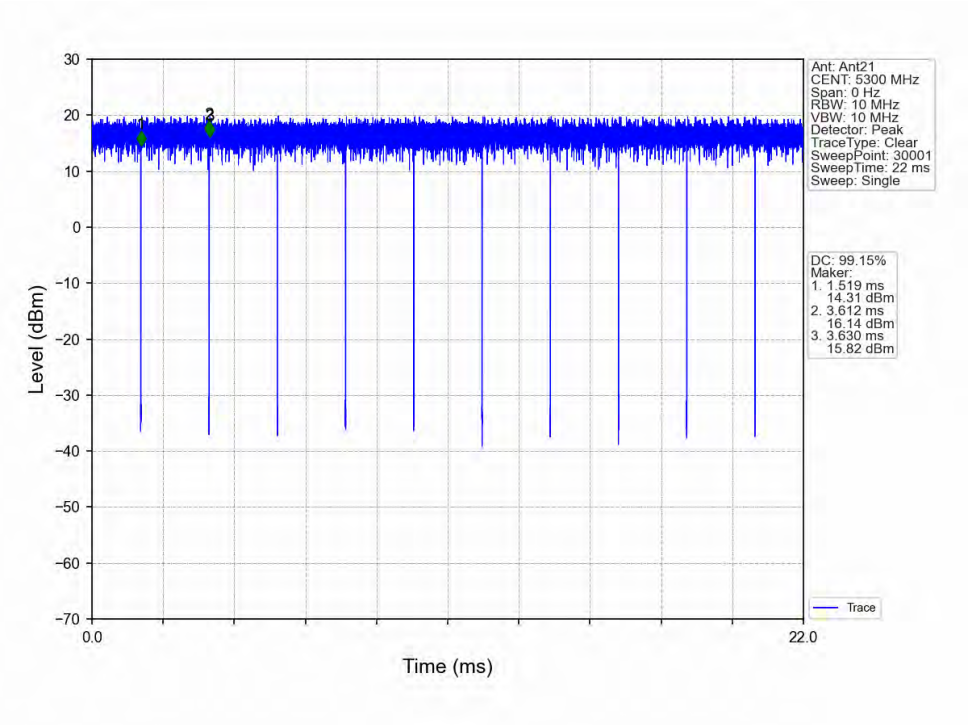
802.11a_MCH_5300MHz_Ant21_NTNV



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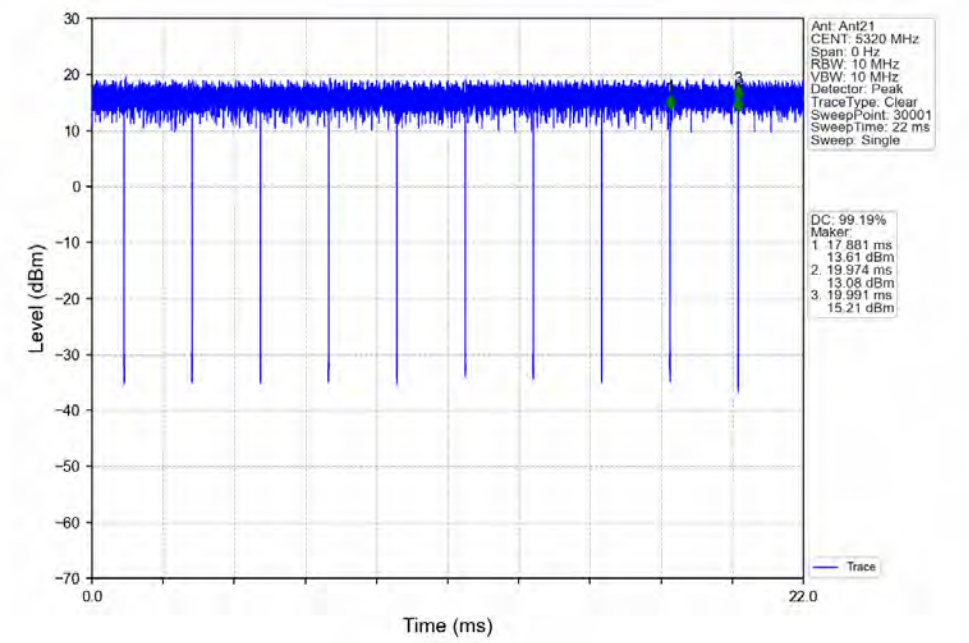

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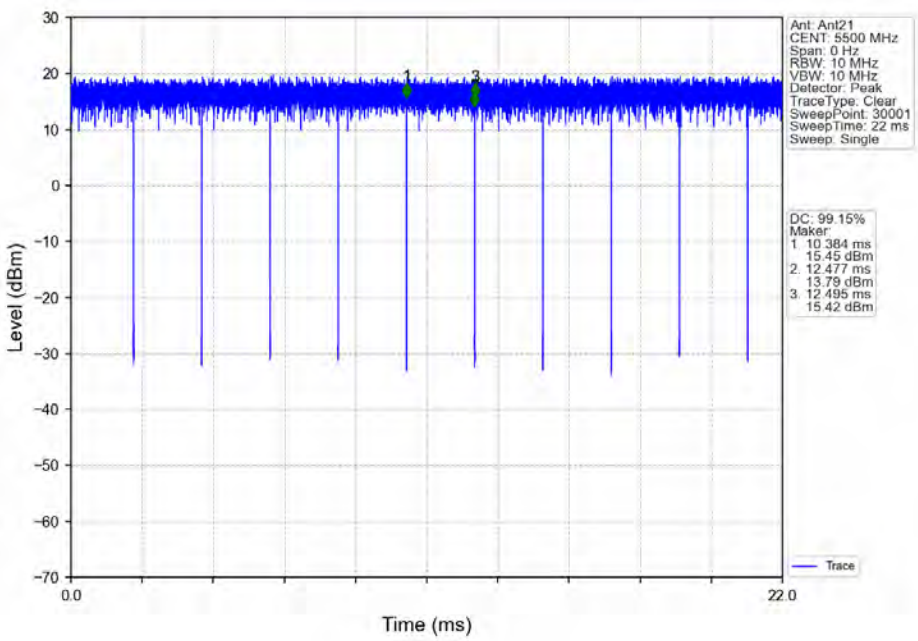
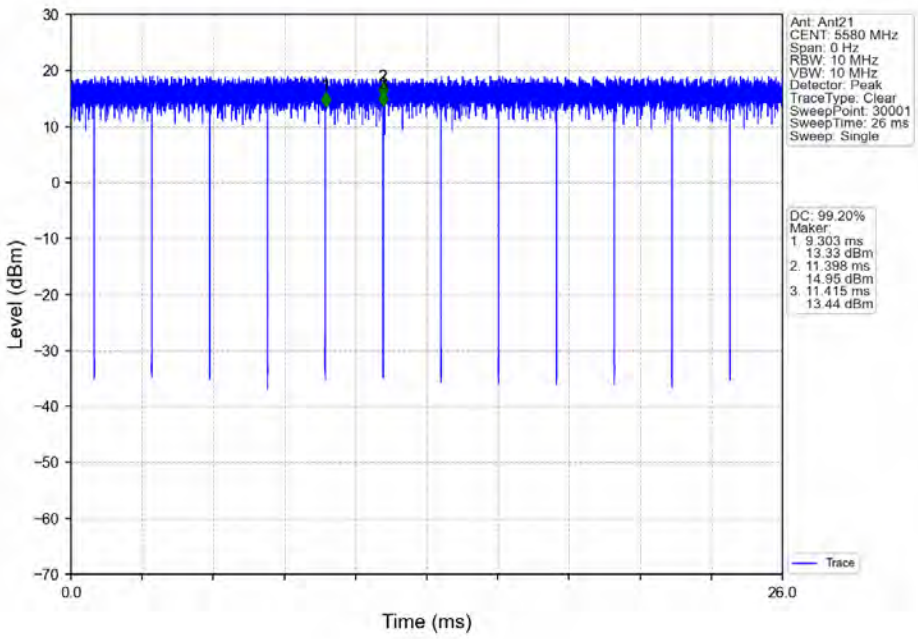
802.11a_LCH_5500MHz_Ant21_NTNV



802.11a_MCH_5580MHz_Ant21_NTNV



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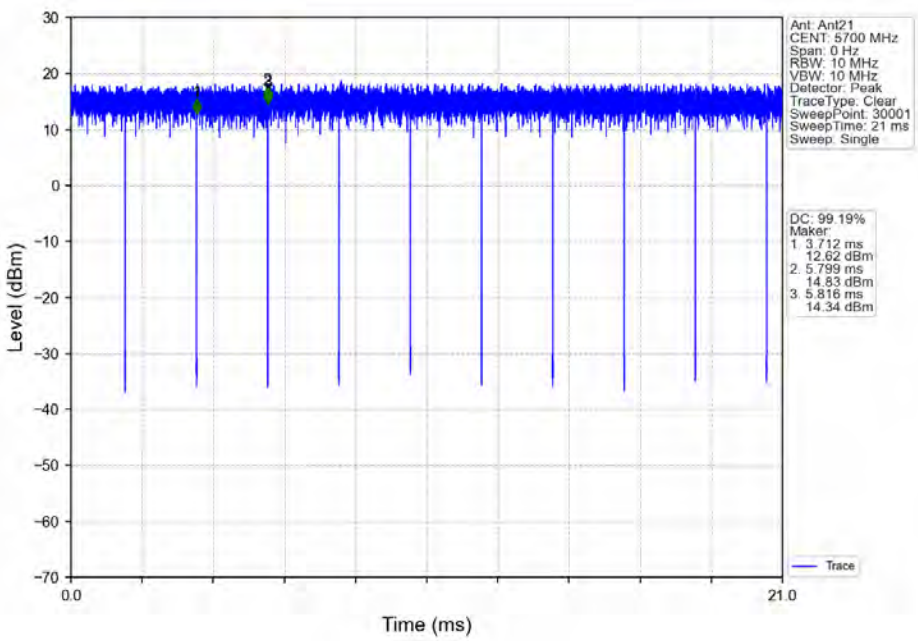
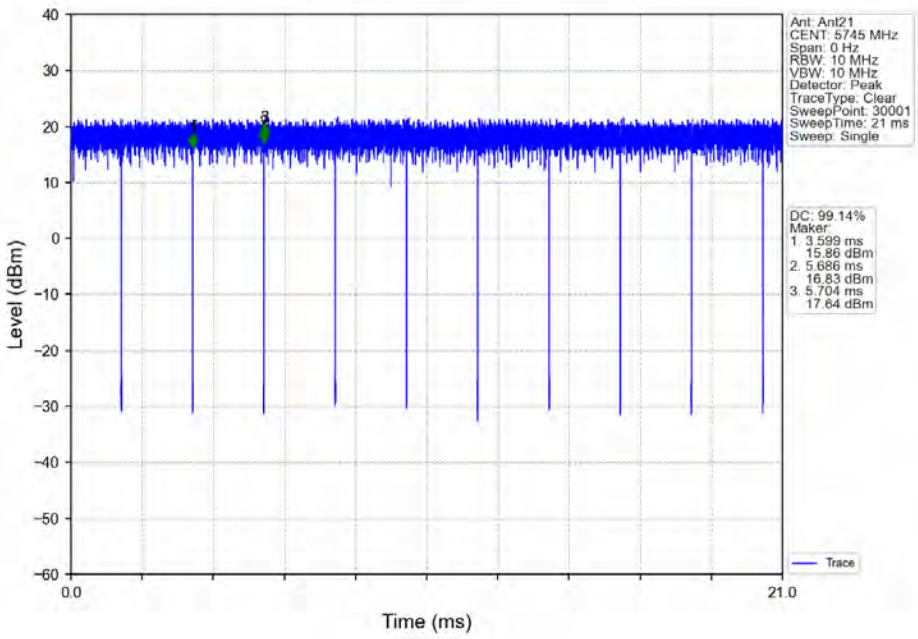
802.11a_HCH_5700MHz_Ant21_NTNV



802.11a_LCH_5745MHz_Ant21_NTNV



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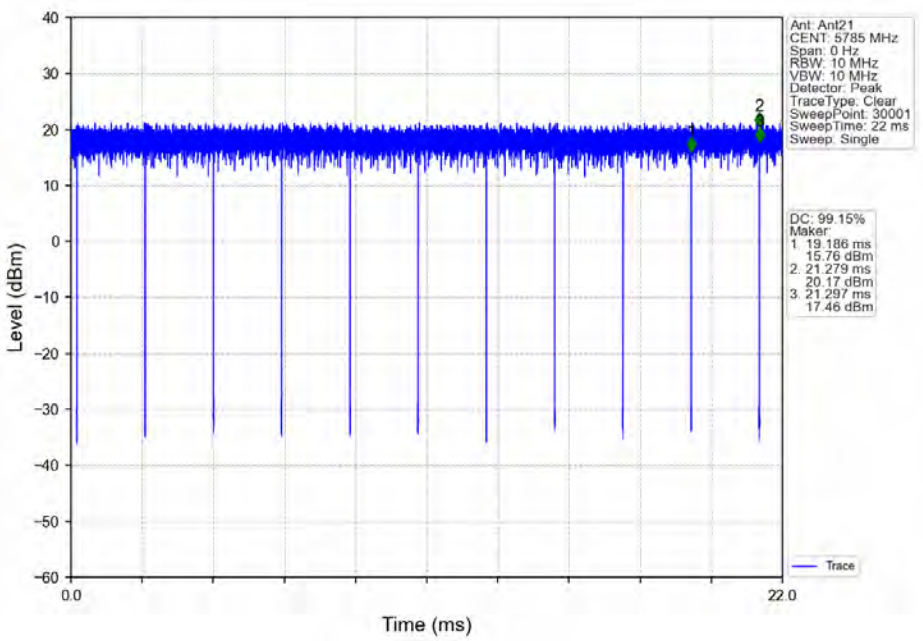
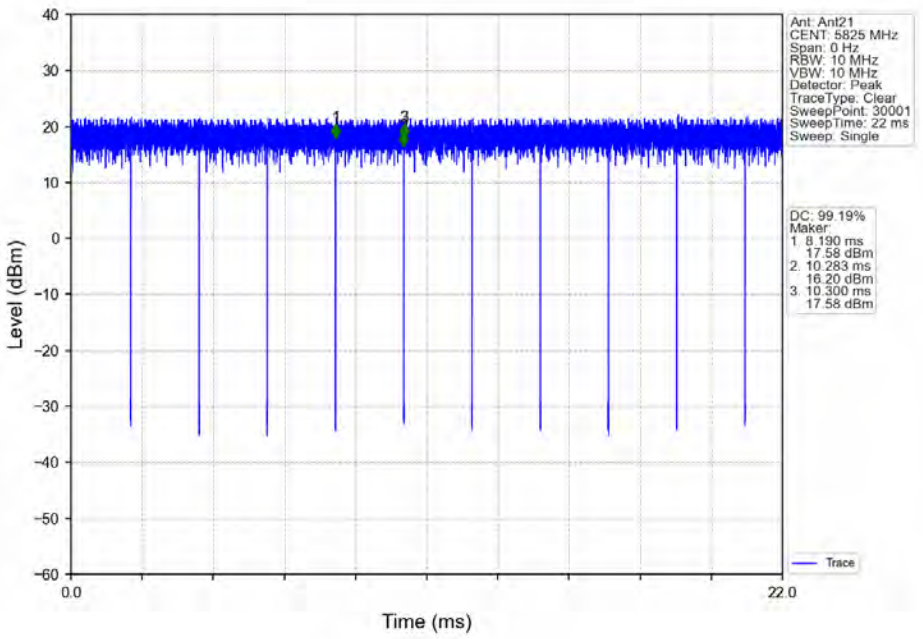
802.11a_MCH_5785MHz_Ant21_NTNV



802.11a_HCH_5825MHz_Ant21_NTNV



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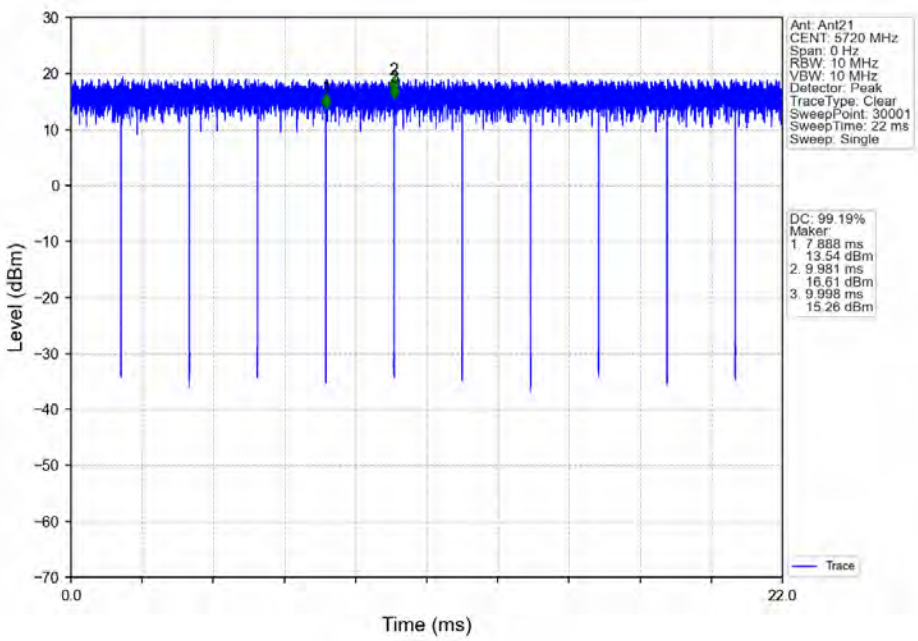
802.11a_HCH_5720MHz_Ant21_NTNV



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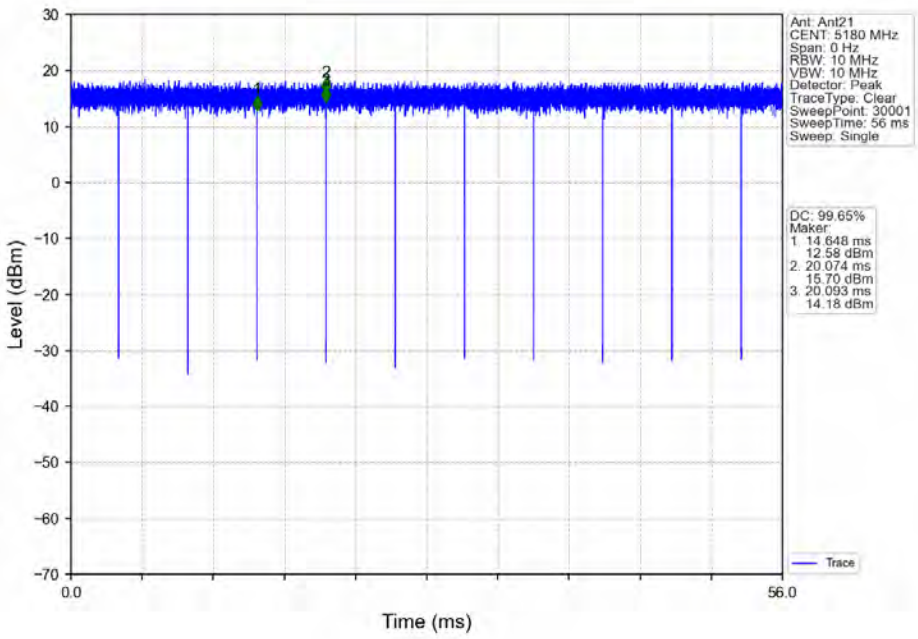

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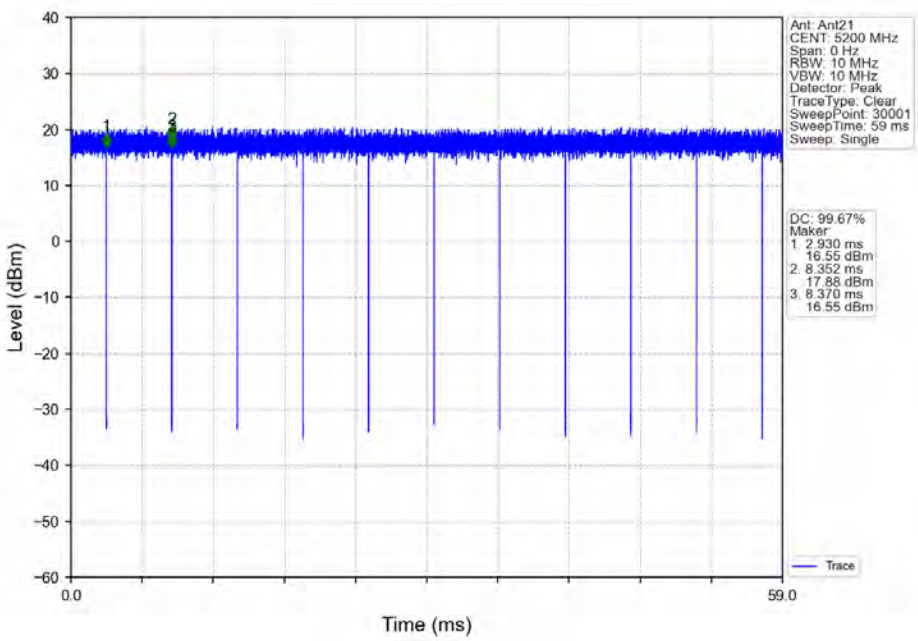
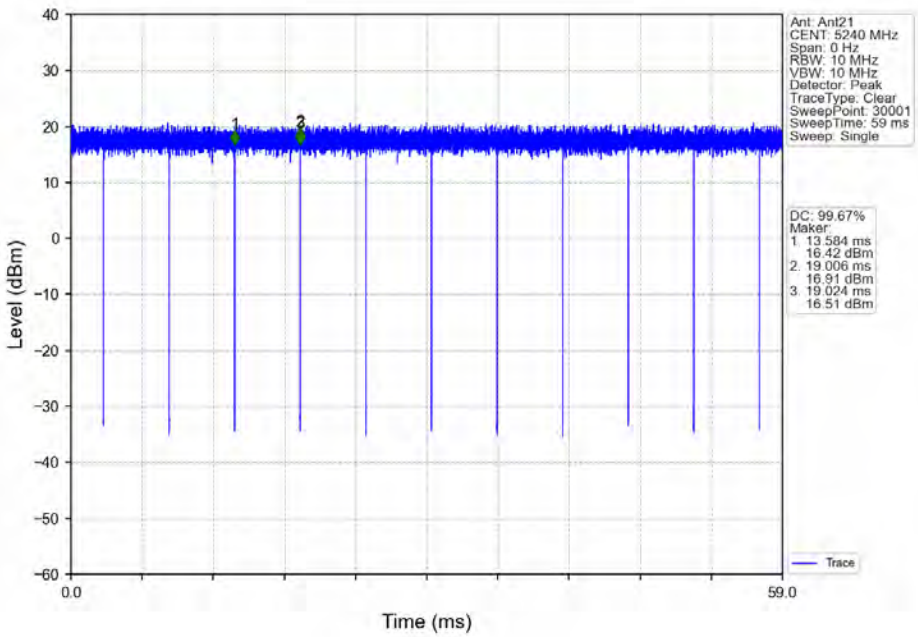
802.11n(HT20)_MCH_5200MHz_Ant21_NTNV



802.11n(HT20)_HCH_5240MHz_Ant21_NTNV



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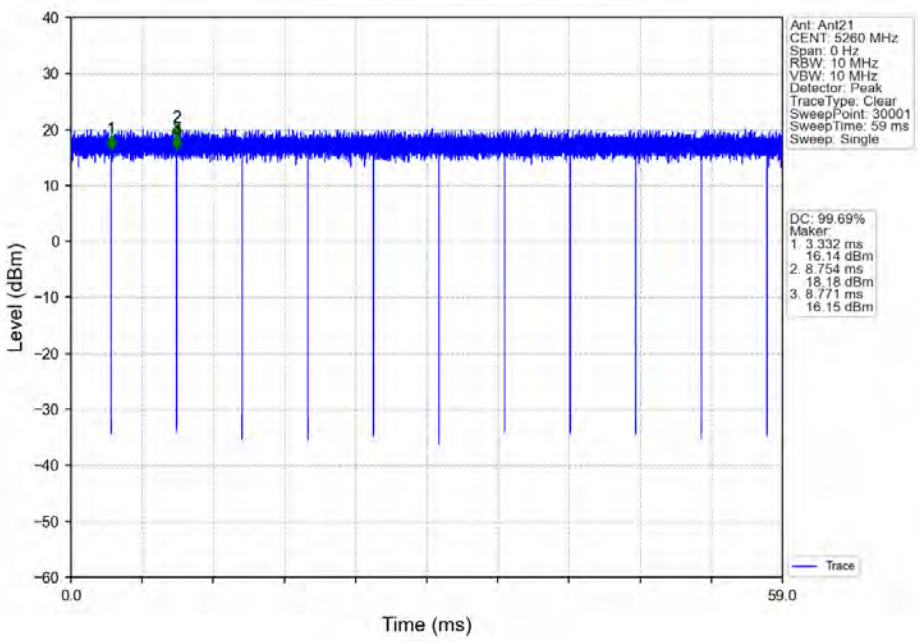
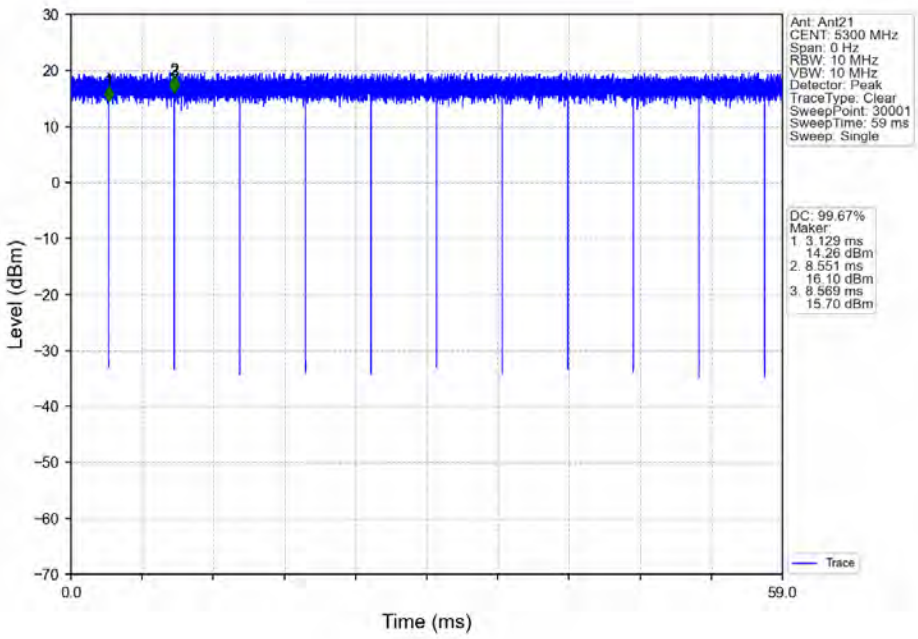
802.11n(HT20)_LCH_5260MHz_Ant21_NTNV



802.11n(HT20)_MCH_5300MHz_Ant21_NTNV



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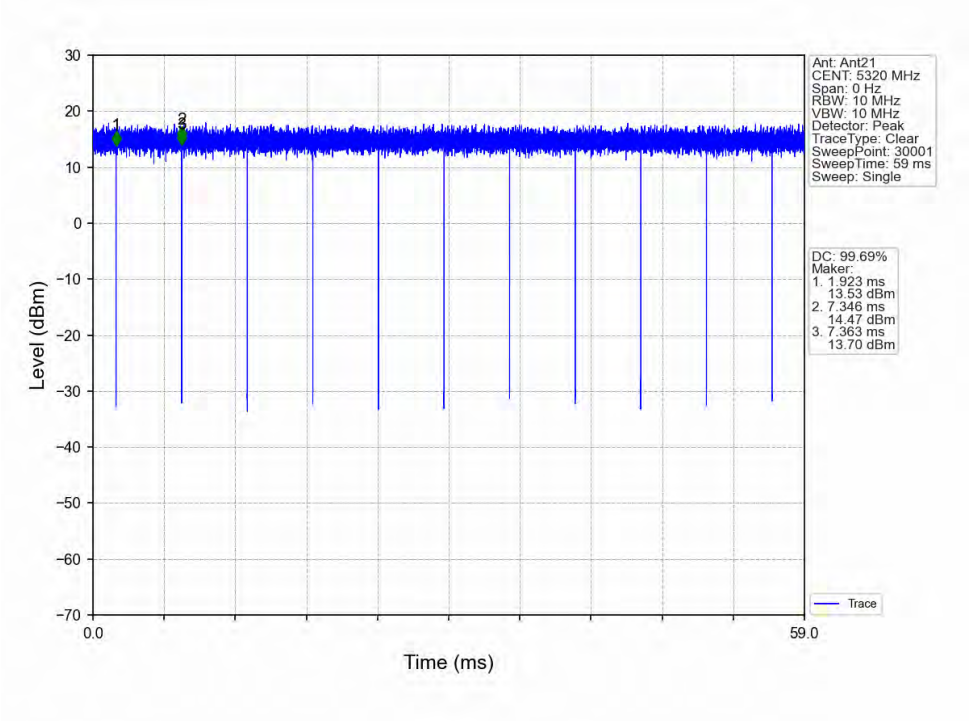
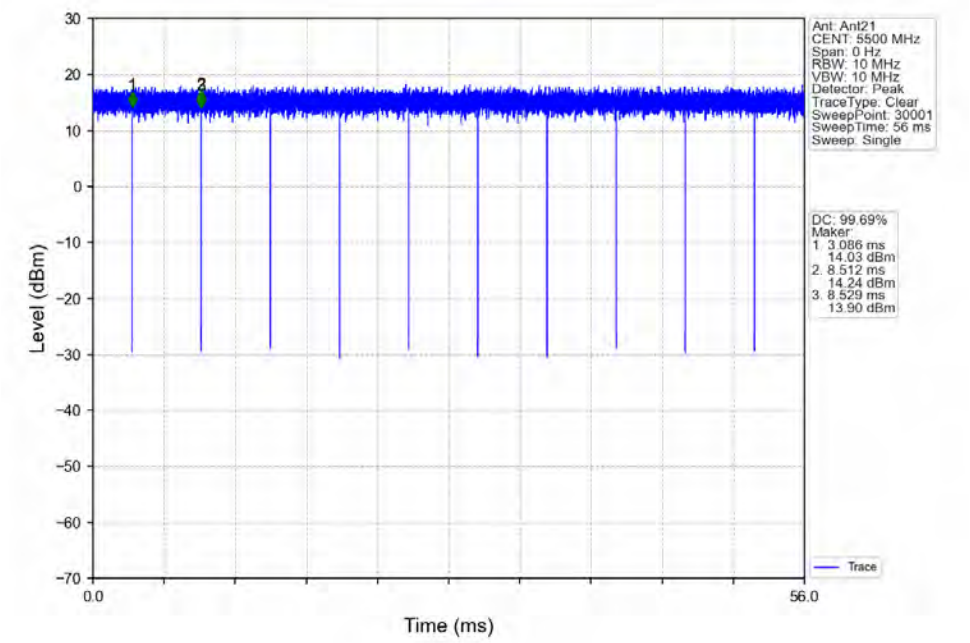
802.11n(HT20)_HCH_5320MHz_Ant21_NTNV



802.11n(HT20)_LCH_5500MHz_Ant21_NTNV



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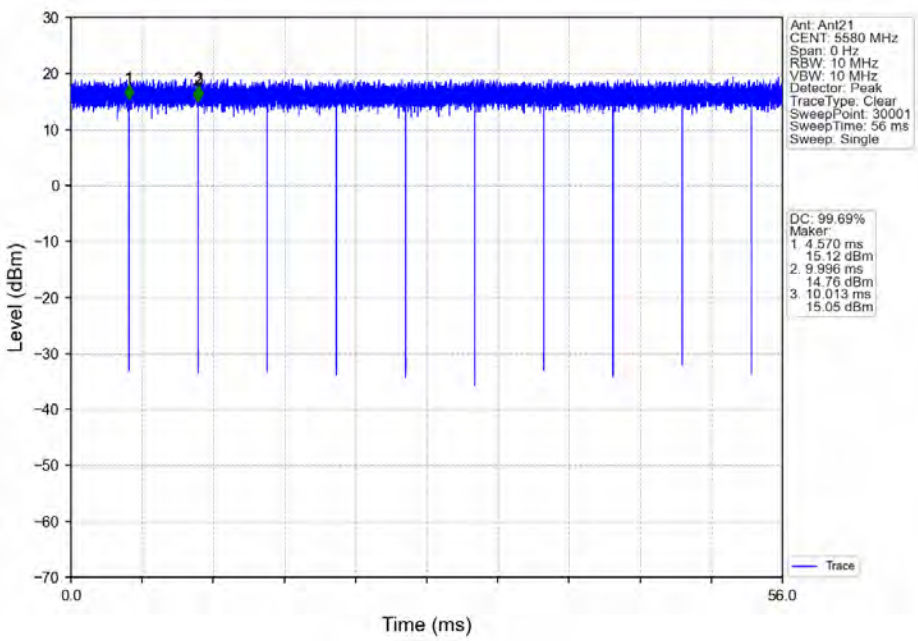
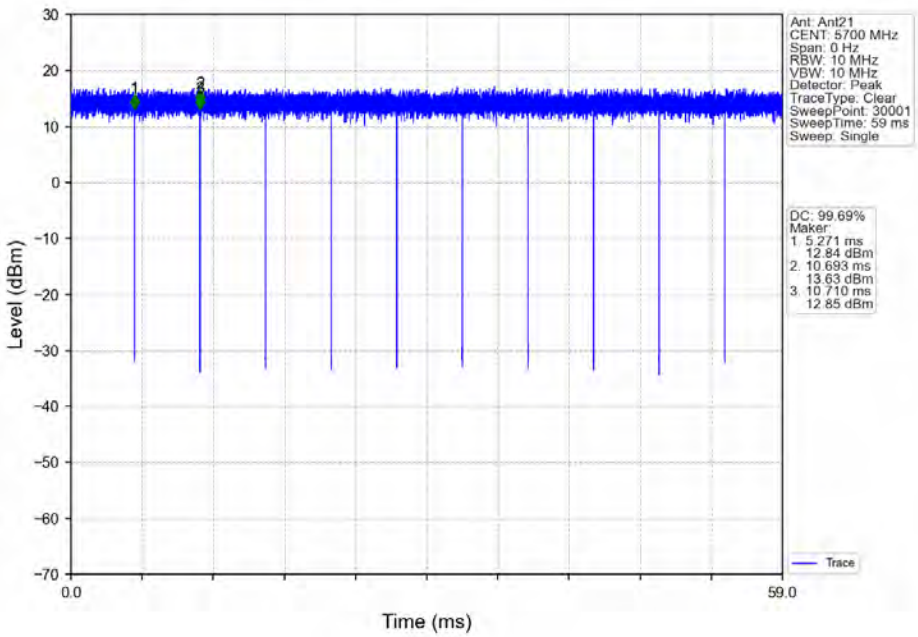
802.11n(HT20)_MCH_5580MHz_Ant21_NTNV



802.11n(HT20)_HCH_5700MHz_Ant21_NTNV



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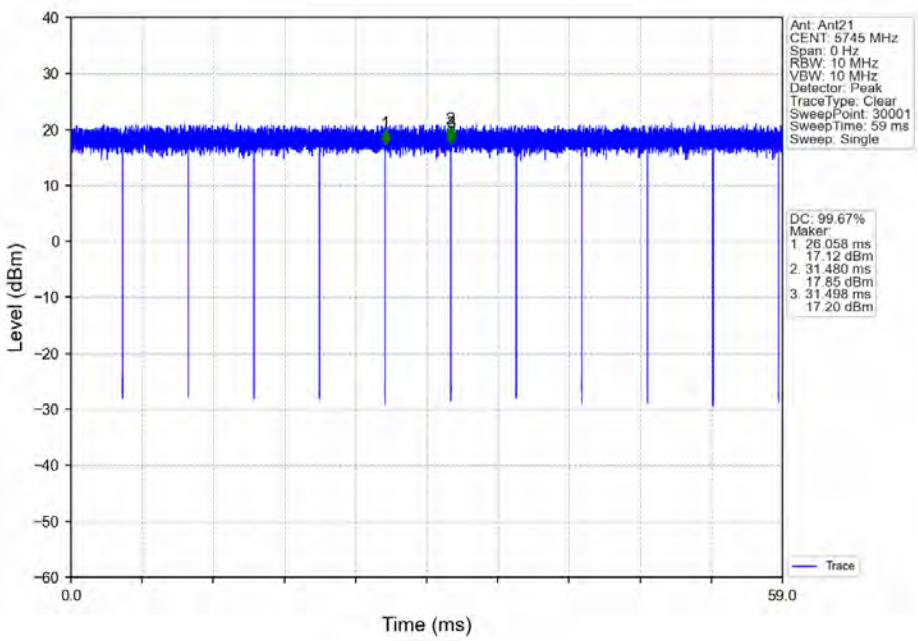
802.11n(HT20)_LCH_5745MHz_Ant21_NTNV



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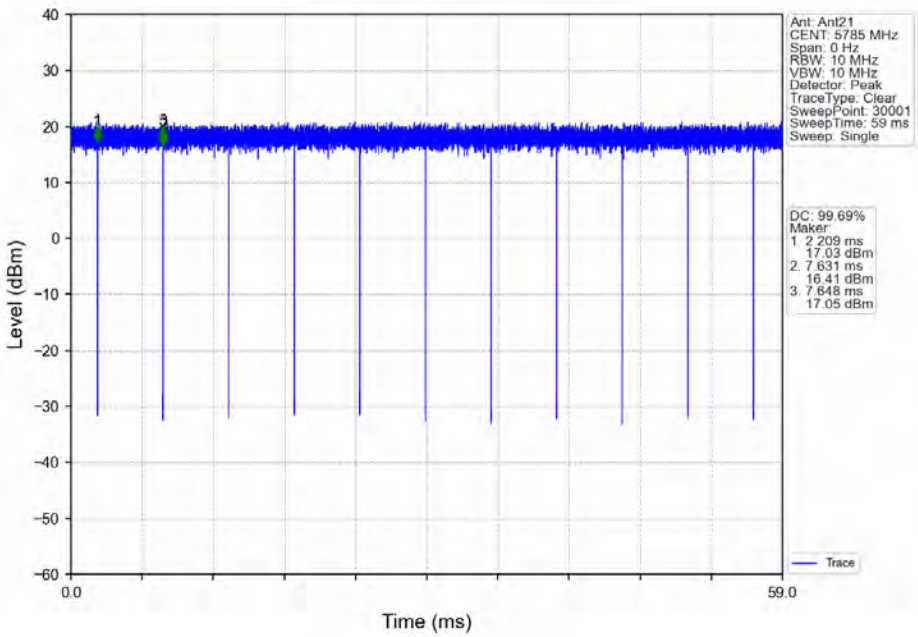

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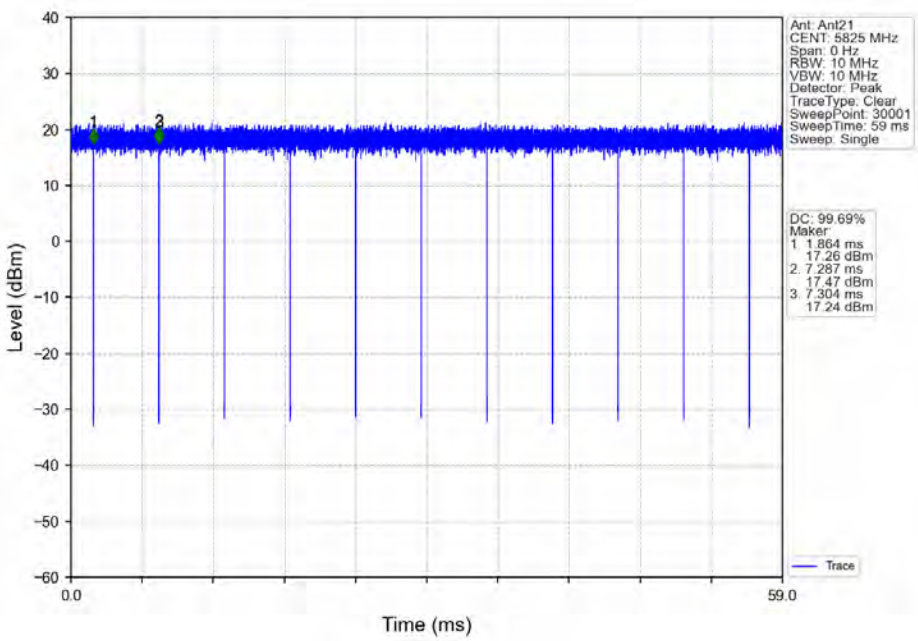
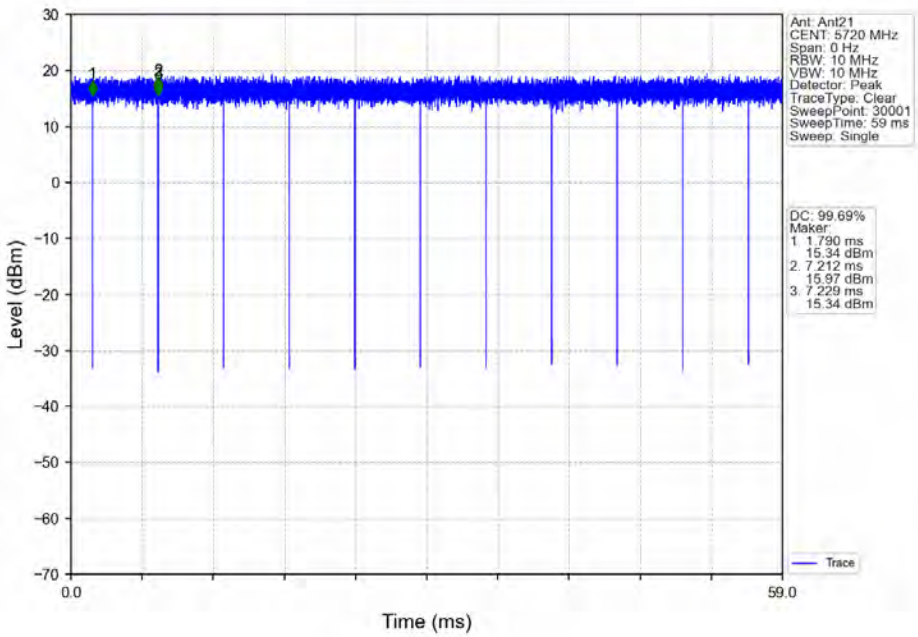
802.11n(HT20)_HCH_5825MHz_Ant21_NTNV



802.11n(HT20)_HCH_5720MHz_Ant21_NTNV



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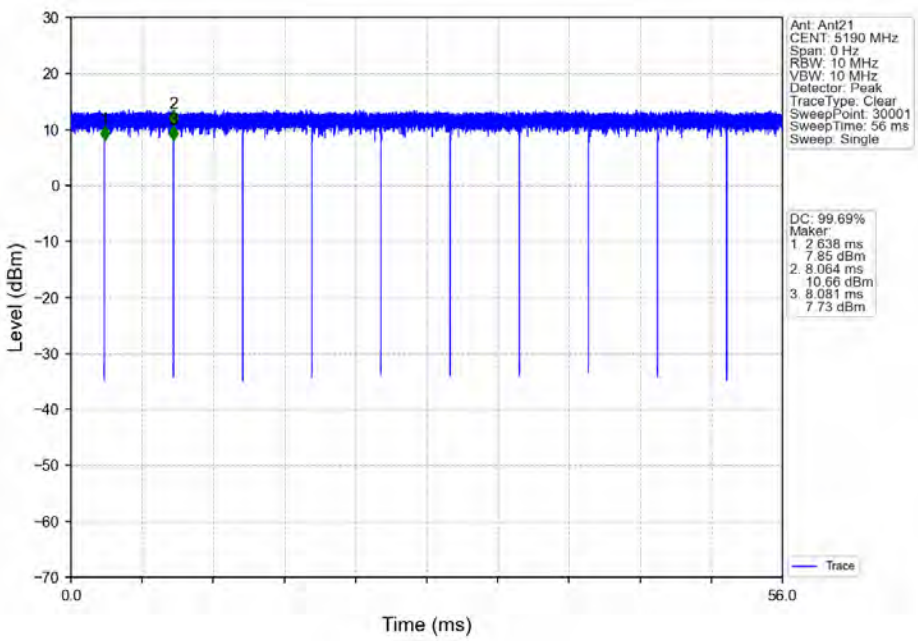
802.11n(HT40)_LCH_5190MHz_Ant21_NTNV



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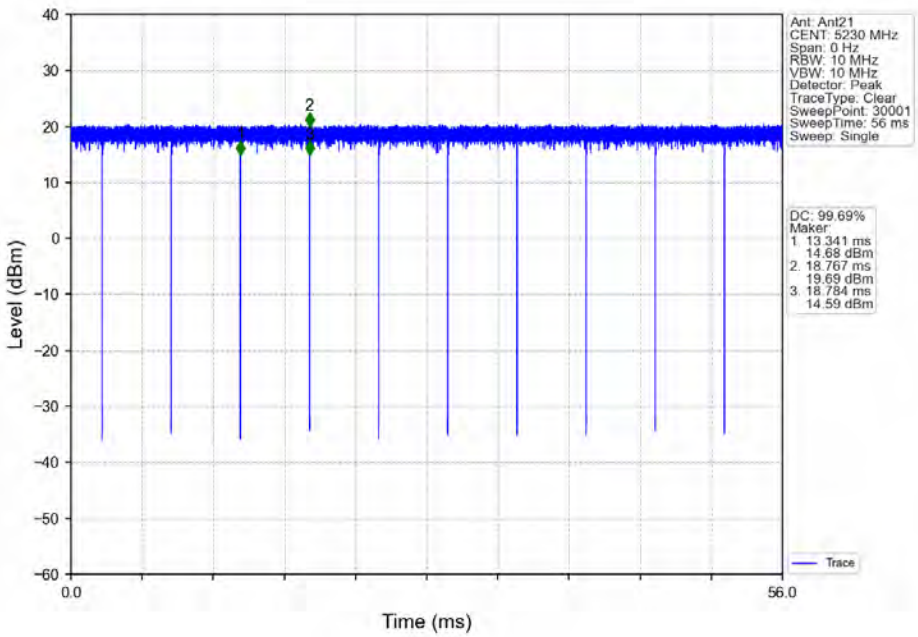

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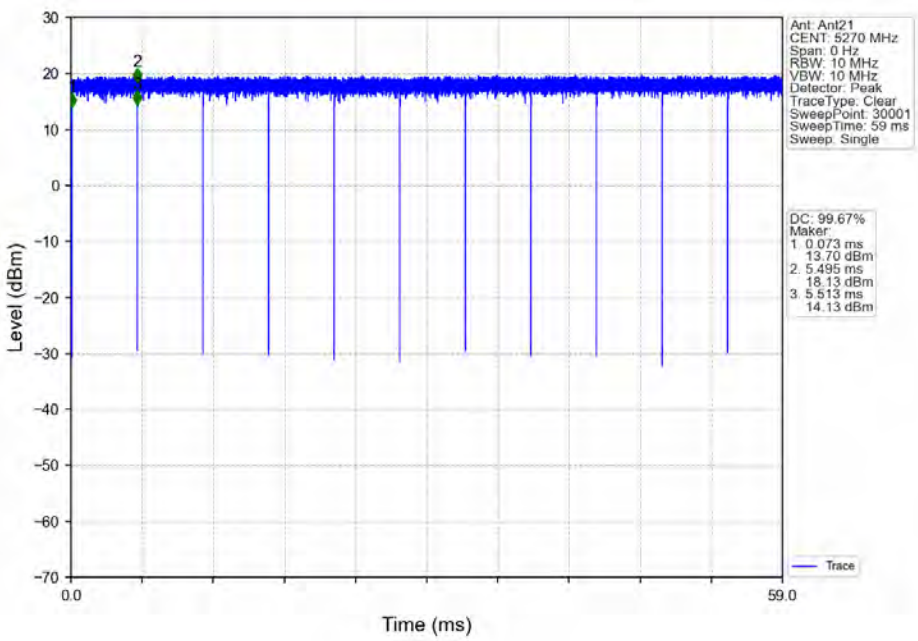
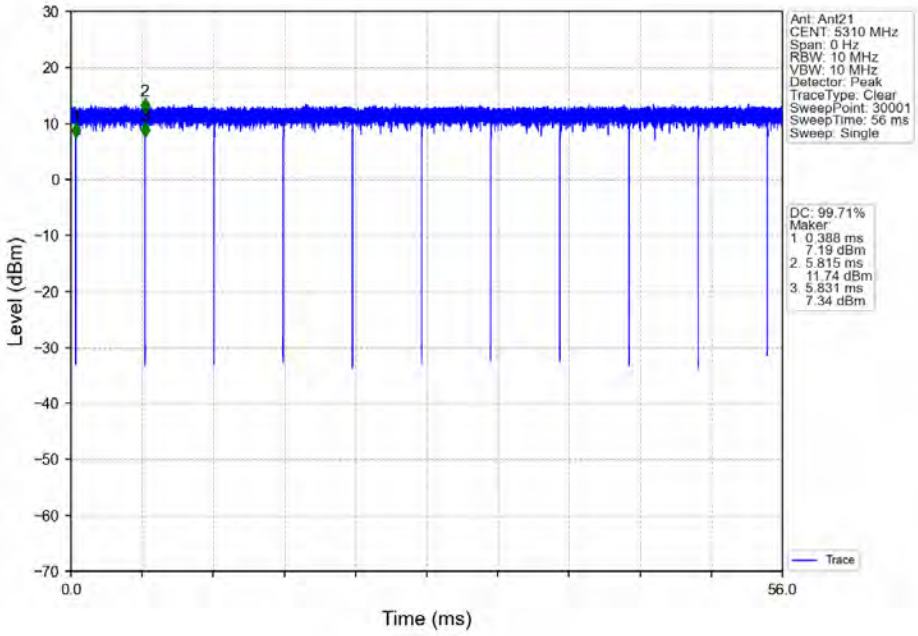
802.11n(HT40)_LCH_5270MHz_Ant21_NTNV



802.11n(HT40)_HCH_5310MHz_Ant21_NTNV



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