TEST REPORT

Application No:	SZCR2404001497WM
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
EUT Description:	Mobile phone
Model No.:	V2351
Trade Mark:	vivo
FCC ID:	2AUCY-V2351
Standard(s) :	47 CFR Part 15, Subpart E 15.407
Date of Receipt:	2024-04-24
Date of Test:	2024-05-18 to 2024-05-31
Date of Issue:	2024-05-31
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		*2024-05-31*		*Original*

Authorized for issue by:		
		Sherlock Fang **Sherlock Fang/Project Engineer**
		Eric Fu **Eric Fu/Reviewer**

通标标准技术服务有限公司深圳分公司
检验检测专用章
Inspection & Testing Services
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
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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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4 General Information

4.1 Details of E.U.T.

EUT Description:	Mobile phone	
Model No.:	V2351	
Trade Mark:	vivo	
Hardware Version:	MP_0.1	
Software Version:	PD2357GF_EX_A_14.0.5.9.W30	
Power supply:	DC 3.91V 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 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)
Channel Spacing:	20MHz:	802.11a/n(HT20)/ac(VHT20)
	40MHz:	802.11n(HT40)/ac(VHT40)
	80MHz:	802.11ac(VHT80)
Antenna Type:	PIFA Antenna	
Antenna Gain:	5150MHz to 5250MHz: 0.27dBi (Ant22); 5250MHz to 5350MHz: -0.44dBi (Ant22); 5470MHz to 5725MHz: 1.93dBi (Ant22); 5725MHz to 5850MHz: 1.94dBi (Ant22);	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
Smart System:	☒ SISO	802.11a/n/ac
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

Maximum Conducted output power					
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

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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
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	2023-07-28	2024-07-27

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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	2023-07-28	2024-07-27

Channel Move Time					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
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
Signal Generator	Rohde & Schwarz	SMM100A	SZ-WRG-M-011	2024-01-30	2025-01-29
Test Software	Tonscend	JS1120 V3.2.22	N/A	NCR	NCR
Router	NETGEAR	R7800	SZ-WRG-A-072	NCR	NCR
Humidity/ Temperature Indicator	Deli	8838	SEM002-46	2023-07-28	2024-07-27

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RF Conducted 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
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
Humidity/ Temperature Indicator	Deli	8838	SEM002-46	2023-07-28	2024-07-27
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

Remark: NCR=No Calibration Requirement

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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 PIFA Antenna on the device and no consideration of replacement.

The best case gain of the antenna is

5150MHz to 5250MHz: 0.27dBi (Ant22);

5250MHz to 5350MHz: -0.44dBi (Ant22);

5470MHz to 5725MHz: 1.93dBi (Ant22);

5725MHz to 5850MHz: 1.94dBi (Ant22);

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 detect 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(dBμV)	
	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: 23.2 °C Humidity: 50.5 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	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.
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

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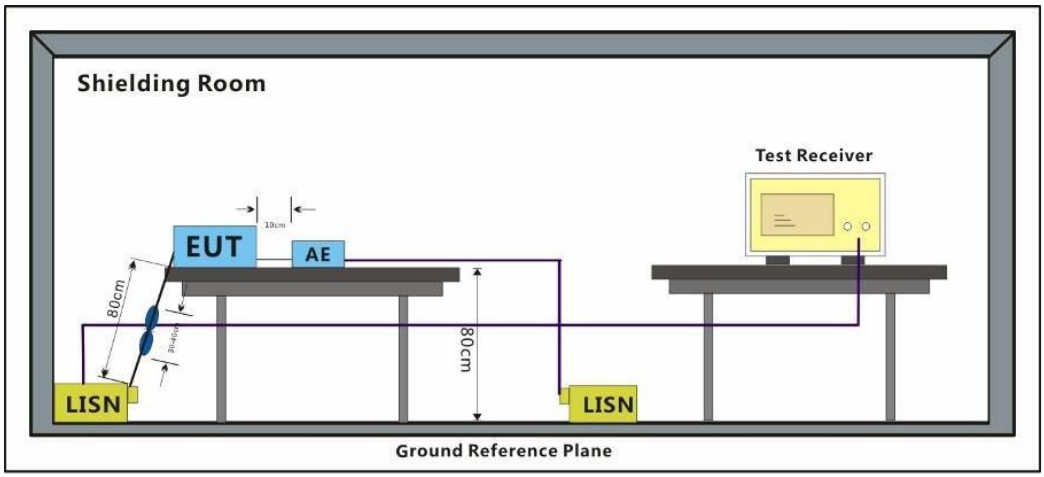
		data of worst case is recorded in the report.

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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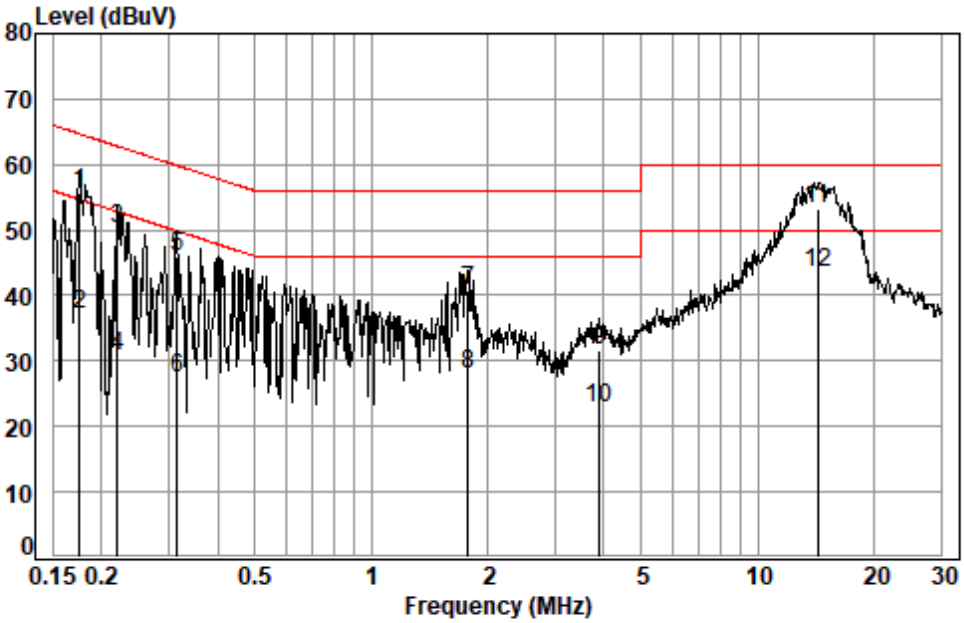
Test Mode: 17; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 01497WM
Test mode: 17

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1		0.1758	0.02	10.94	44.71	55.67	64.68	-9.01	QP
2		0.1758	0.02	10.94	26.19	37.15	54.68	-17.53	Average
3		0.2197	0.03	10.75	39.30	50.08	62.83	-12.75	QP
4		0.2197	0.03	10.75	20.09	30.87	52.83	-21.96	Average
5		0.3149	0.03	10.77	35.13	45.93	59.84	-13.91	QP
6		0.3149	0.03	10.77	16.71	27.51	49.84	-22.33	Average
7		1.7810	0.07	10.64	29.97	40.68	56.00	-15.32	QP
8		1.7810	0.07	10.64	17.42	28.13	46.00	-17.87	Average
9		3.9014	0.08	10.59	20.84	31.51	56.00	-24.49	QP
10		3.9014	0.08	10.59	12.12	22.79	46.00	-23.21	Average
11	*	14.2882	0.22	10.55	42.36	53.13	60.00	-6.87	QP
12	*	14.2882	0.22	10.55	32.79	43.56	50.00	-6.44	Average

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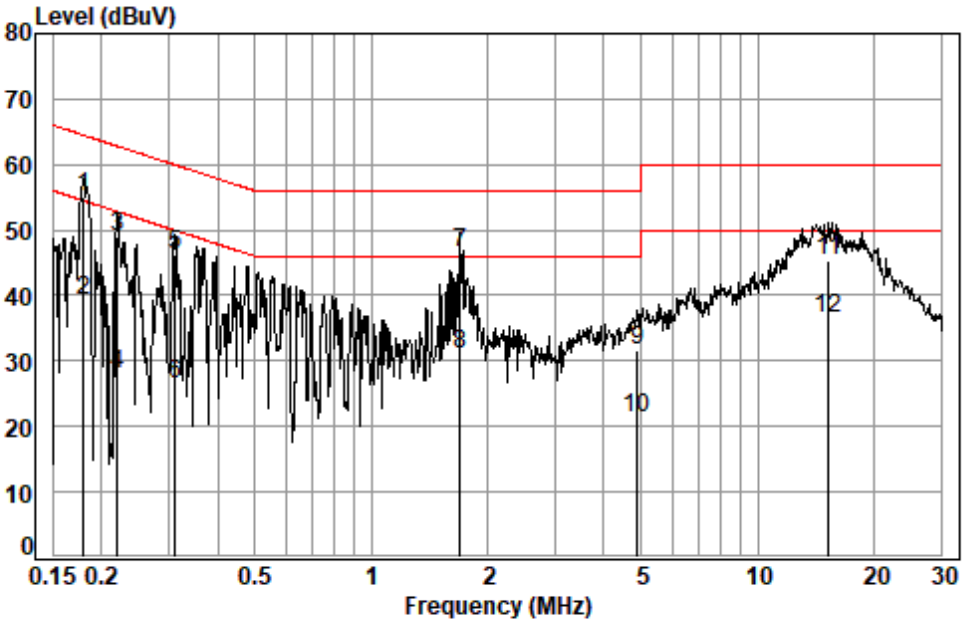
Test Mode: 17; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 01497WM
Test mode: 17

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1796	0.02	10.83	44.07	54.92	64.50	-9.58	QP
2	0.1796	0.02	10.83	28.43	39.28	54.50	-15.22	Average
3	0.2197	0.03	10.80	38.14	48.97	62.83	-13.86	QP
4	0.2197	0.03	10.80	17.19	28.02	52.83	-24.81	Average
5	0.3116	0.03	10.65	35.44	46.12	59.93	-13.81	QP
6	0.3116	0.03	10.65	15.88	26.56	49.93	-23.37	Average
7 *	1.6981	0.07	10.96	35.53	46.56	56.00	-9.44	QP
8	1.6981	0.07	10.96	20.01	31.04	46.00	-14.96	Average
9	4.8738	0.09	11.09	20.53	31.71	56.00	-24.29	QP
10	4.8738	0.09	11.09	10.16	21.34	46.00	-24.66	Average
11	15.3070	0.23	10.39	34.63	45.25	60.00	-14.75	QP
12 *	15.3070	0.23	10.39	25.98	36.60	50.00	-13.40	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: 22.9 °C Humidity: 45.6 % 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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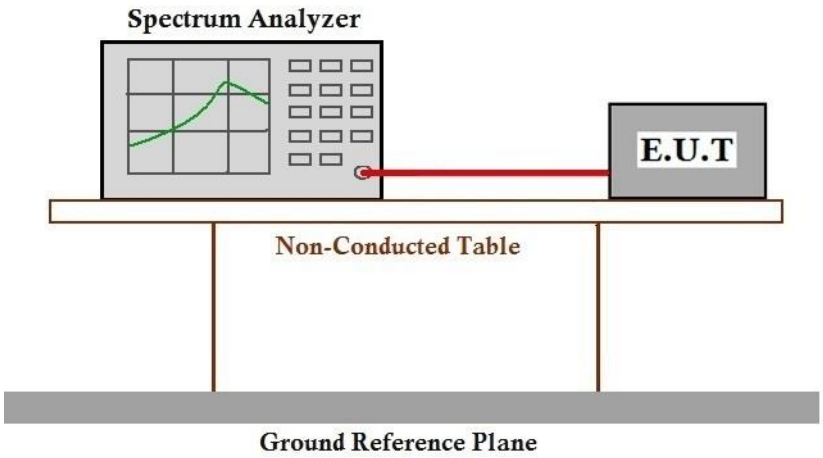
		found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.

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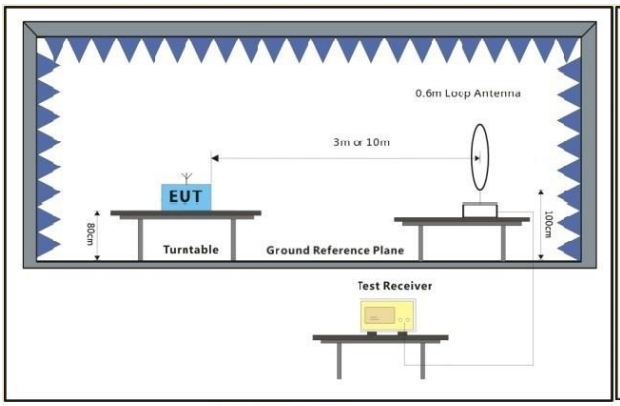
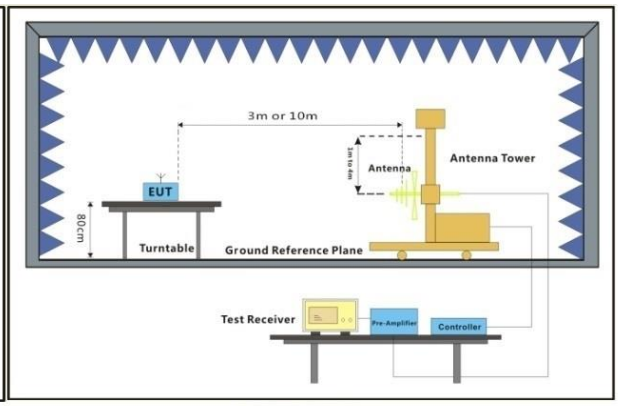
		data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.

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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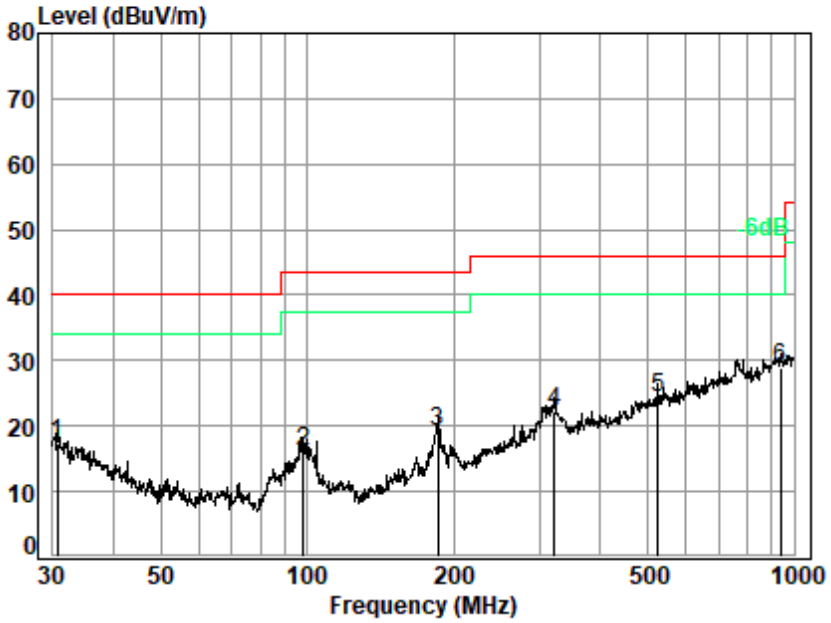
Test Mode: 14; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 01497WM
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	30.64	20.90	0.65	27.79	23.70	17.46	40.00	-22.54	QP
2	98.14	12.21	1.18	27.60	30.38	16.17	43.50	-27.33	QP
3	185.14	14.27	1.65	27.23	30.62	19.31	43.50	-24.19	QP
4	322.19	18.55	2.25	26.84	28.24	22.20	46.00	-23.80	QP
5	526.40	23.24	2.97	27.67	25.83	24.37	46.00	-21.63	QP
6 q	938.83	28.15	4.19	26.49	23.13	28.98	46.00	-17.02	QP

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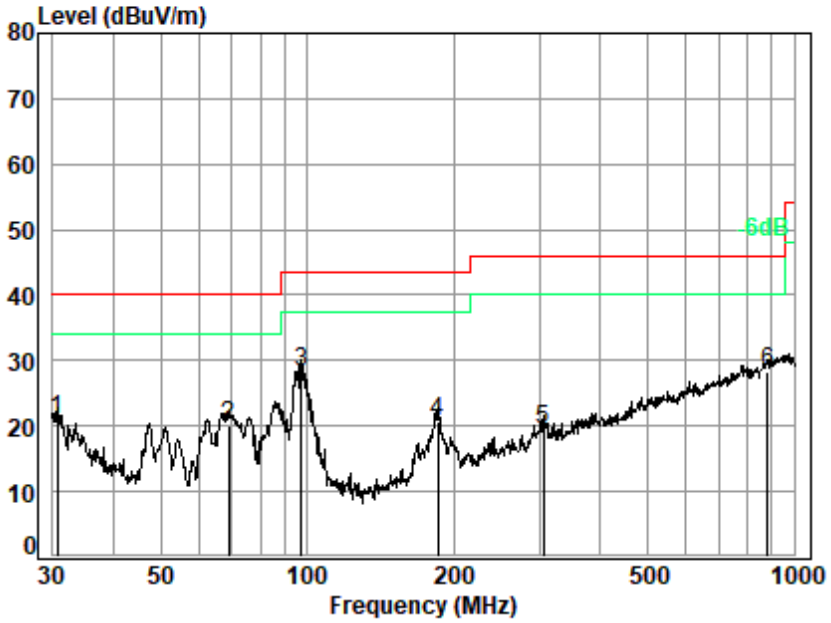
Test Mode: 14; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 01497WM
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	30.64	20.90	0.65	27.79	27.08	20.84	40.00	-19.16	QP
2	68.87	10.67	0.98	27.68	36.22	20.19	40.00	-19.81	QP
3 q	97.11	12.19	1.17	27.60	42.42	28.18	43.50	-15.32	QP
4	185.14	14.27	1.65	27.23	32.11	20.80	43.50	-22.70	QP
5	305.68	18.42	2.19	26.77	25.67	19.51	46.00	-26.49	QP
6	881.41	27.76	4.04	26.90	23.31	28.21	46.00	-17.79	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

* Frequency in CFR 15.205 Restricted Band.

Note: Frequency in non-Restricted Band:

(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: 23.5 °C Humidity: 51.8 % 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;

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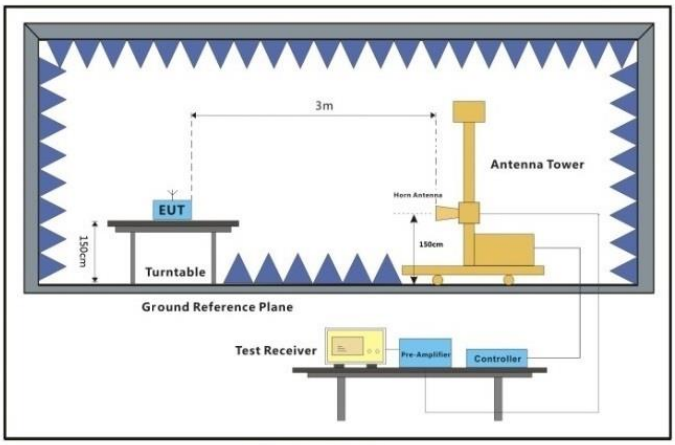
		data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have 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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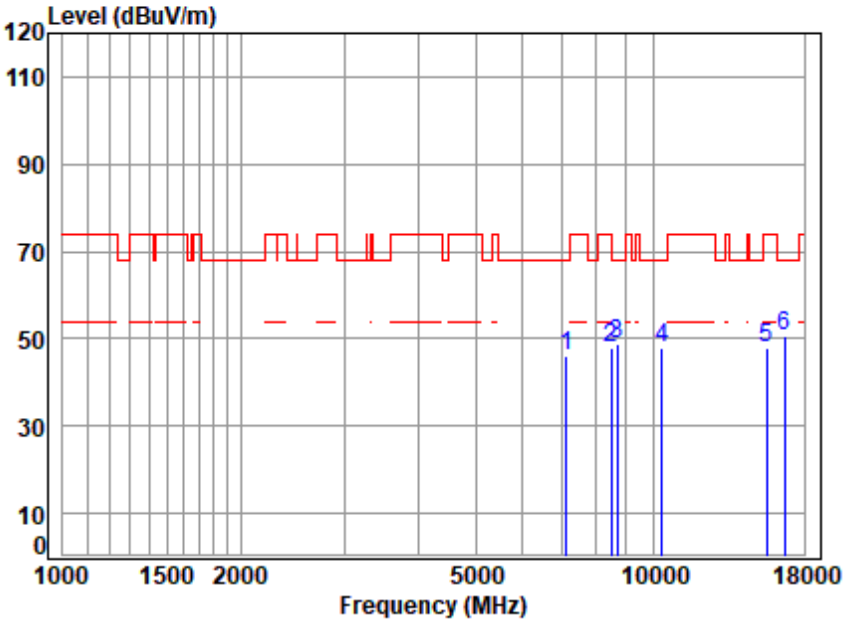
Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5180 TX RSE
: 5G WIFI 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	54.44	46.17	68.20	-22.03	peak
2	8496.769	12.29	38.31	55.45	52.61	47.76	74.00	-26.24	peak
3	8671.635	12.05	38.49	55.30	53.48	48.72	68.20	-19.48	peak
4	10360.000	13.60	39.00	53.88	49.10	47.82	68.20	-20.38	peak
5	15540.000	17.00	38.56	54.14	46.57	47.99	74.00	-26.01	peak
6	pp16710.150	17.58	39.42	54.21	47.93	50.72	68.20	-17.48	peak

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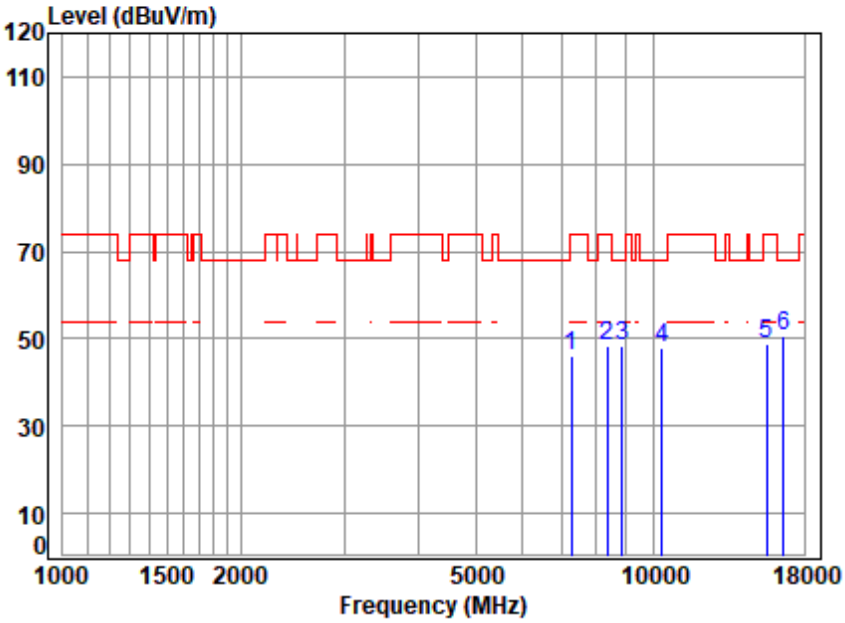
Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5180 TX RSE
: 5G WIFI 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	7270.644	11.51	36.64	56.48	54.54	46.21	74.00	-27.79	peak
2	8342.406	11.70	38.58	55.59	53.49	48.18	74.00	-25.82	peak
3	8868.147	12.23	38.54	55.12	52.59	48.24	68.20	-19.96	peak
4	10360.000	13.60	39.00	53.88	49.37	48.09	68.20	-20.11	peak
5	15540.000	17.00	38.56	54.14	47.18	48.60	74.00	-25.40	peak
6	pp16591.430	17.66	39.17	54.18	48.02	50.67	68.20	-17.53	peak

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Inspection & Testing Services
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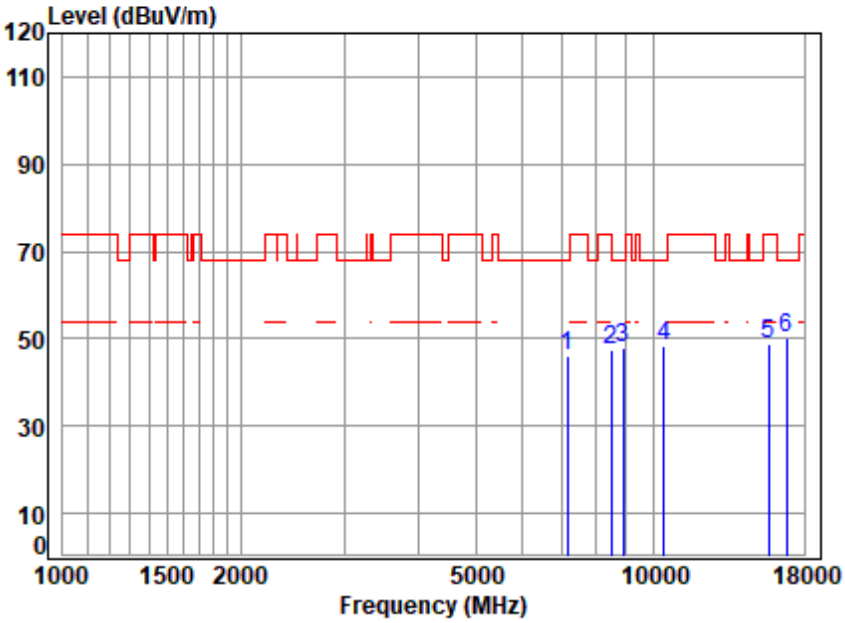
Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5220 TX RSE
: 5G WIFI 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	54.41	46.09	68.20	-22.11	peak
2	8479.478	12.17	38.34	55.47	52.30	47.34	74.00	-26.66	peak
3	8904.353	12.22	38.59	55.09	52.26	47.98	68.20	-20.22	peak
4	10440.000	13.63	39.04	53.84	49.62	48.45	68.20	-19.75	peak
5	15660.000	17.23	38.56	54.10	47.15	48.84	74.00	-25.16	peak
6	pp16778.370	17.49	39.56	54.23	47.53	50.35	68.20	-17.85	peak

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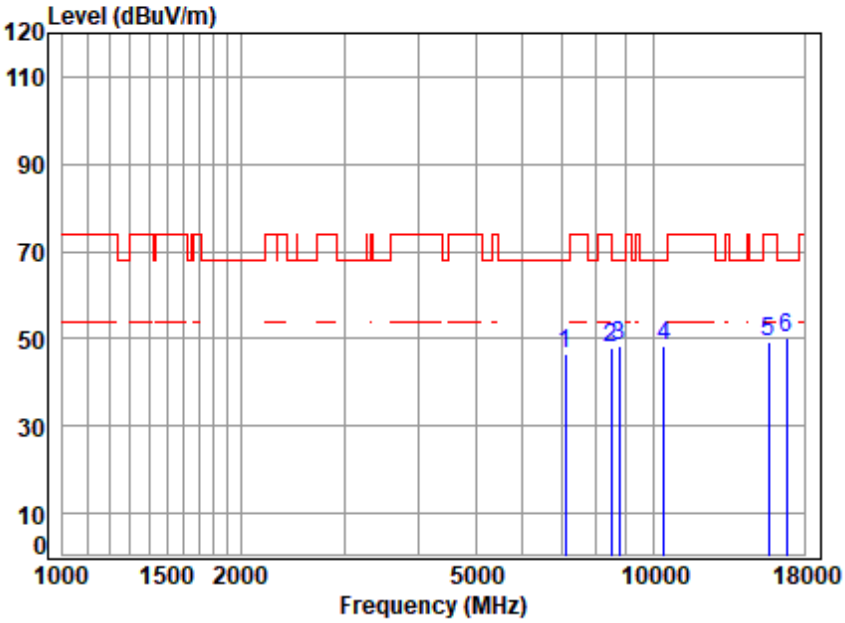
Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5220 TX RSE
: 5G WIFI 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	7095.063	11.96	36.39	56.62	54.66	46.39	68.20	-21.81	peak
2	8488.119	12.23	38.32	55.46	52.96	48.05	74.00	-25.95	peak
3	8751.494	12.17	38.50	55.22	52.78	48.23	68.20	-19.97	peak
4	10440.000	13.63	39.04	53.84	49.62	48.45	68.20	-19.75	peak
5	15660.000	17.23	38.56	54.10	47.53	49.22	74.00	-24.78	peak
6	pp16795.470	17.47	39.59	54.24	47.43	50.25	68.20	-17.95	peak

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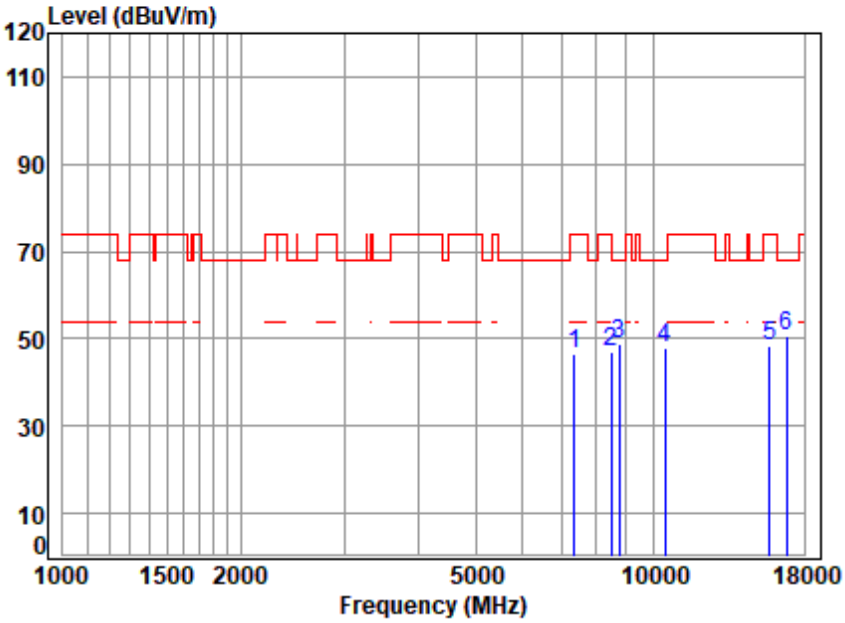
Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5240 TX RSE
: 5G WIFI 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	54.49	46.35	74.00	-27.65	peak
2	8496.769	12.29	38.31	55.45	52.07	47.22	74.00	-26.78	peak
3	8751.494	12.17	38.50	55.22	53.16	48.61	68.20	-19.59	peak
4	10480.000	13.64	39.08	53.81	48.97	47.88	68.20	-20.32	peak
5	15720.000	17.22	38.58	54.08	46.60	48.32	74.00	-25.68	peak
6	pp16829.720	17.67	39.60	54.25	47.72	50.74	68.20	-17.46	peak

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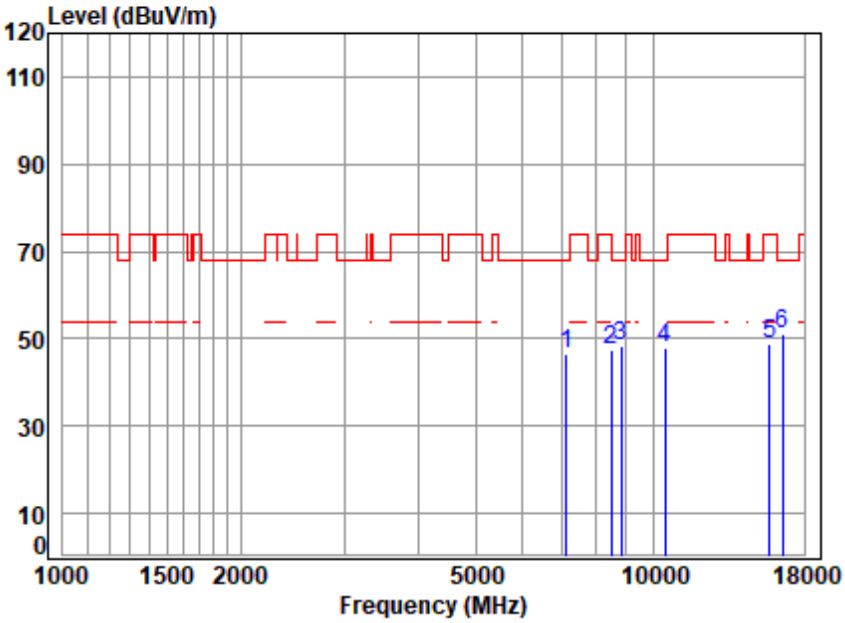
Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5240 TX RSE
: 5G WIFI 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	54.97	46.70	68.20	-21.50	peak
2	8479.478	12.17	38.34	55.47	52.37	47.41	74.00	-26.59	peak
3	8832.090	12.24	38.50	55.15	52.63	48.22	68.20	-19.98	peak
4	10480.000	13.64	39.08	53.81	49.05	47.96	68.20	-20.24	peak
5	15720.000	17.22	38.58	54.08	47.05	48.77	74.00	-25.23	peak
6	pp16557.660	17.69	39.07	54.17	48.34	50.93	68.20	-17.27	peak

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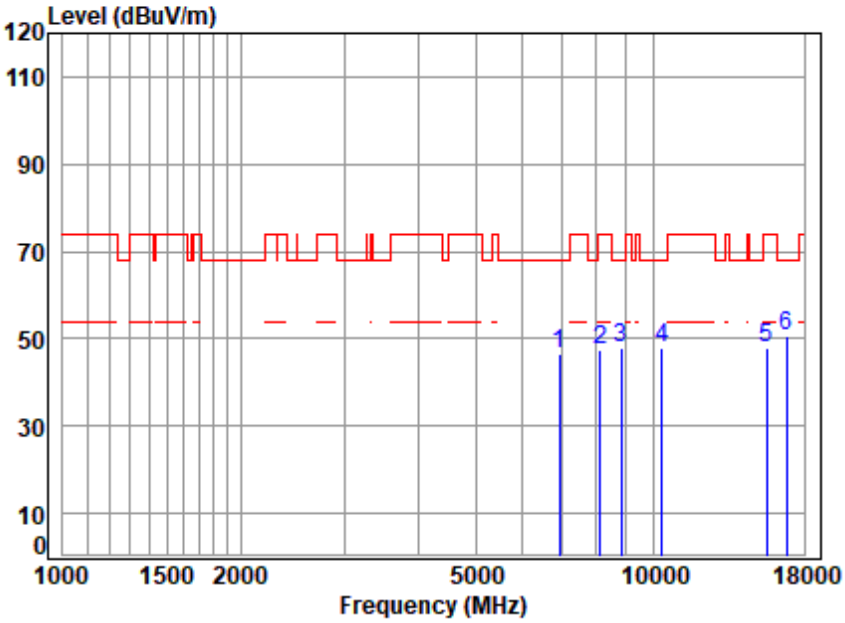
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5180 TX RSE
: 5G WIFI 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	6937.841	11.37	36.12	56.71	55.58	46.36	68.20	-21.84	peak
2	8132.655	11.49	37.87	55.78	53.75	47.33	74.00	-26.67	peak
3	8823.098	12.24	38.50	55.16	52.27	47.85	68.20	-20.35	peak
4	10360.000	13.60	39.00	53.88	49.41	48.13	68.20	-20.07	peak
5	15540.000	17.00	38.56	54.14	46.57	47.99	74.00	-26.01	peak
6	pp16829.720	17.67	39.60	54.25	47.43	50.45	68.20	-17.75	peak

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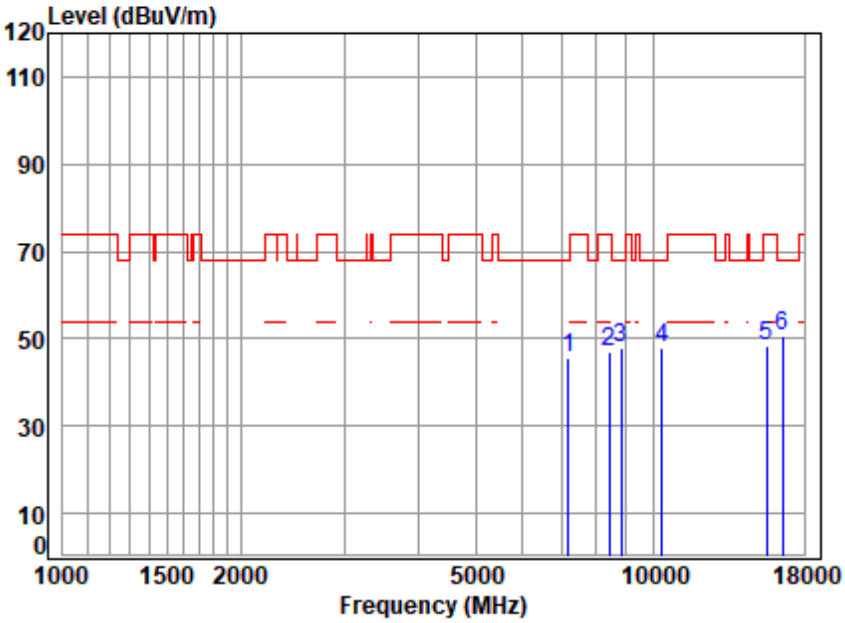
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5180 TX RSE
: 5G WIFI 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	54.09	45.73	68.20	-22.47	peak
2	8410.663	11.70	38.56	55.53	52.04	46.77	74.00	-27.23	peak
3	8814.115	12.25	38.50	55.17	52.17	47.75	68.20	-20.45	peak
4	10360.000	13.60	39.00	53.88	49.25	47.97	68.20	-20.23	peak
5	15540.000	17.00	38.56	54.14	47.10	48.52	74.00	-25.48	peak
6	pp16523.970	17.72	38.97	54.16	48.20	50.73	68.20	-17.47	peak

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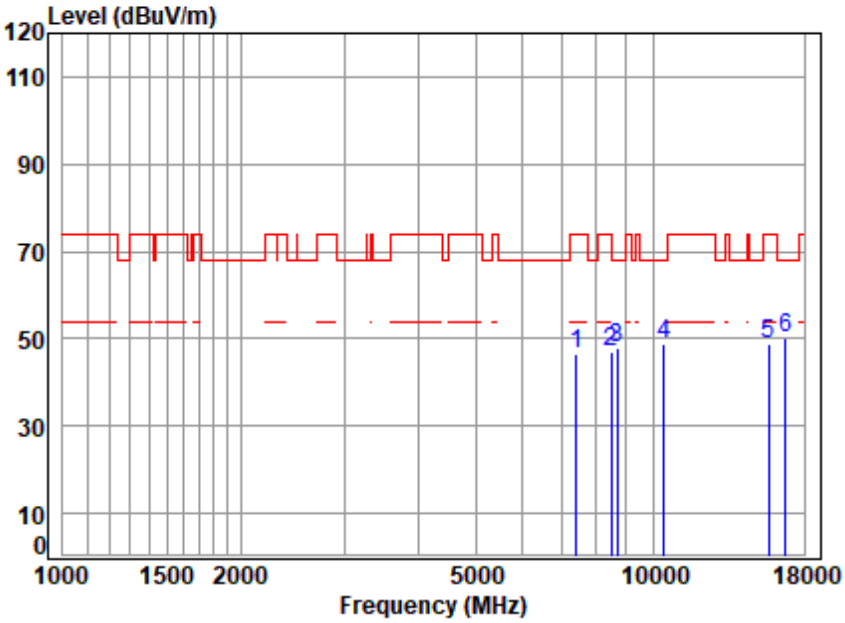
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5220 TX RSE
: 5G WIFI 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	54.54	46.36	74.00	-27.64	peak
2	8488.119	12.23	38.32	55.46	51.79	46.88	74.00	-27.12	peak
3	8671.635	12.05	38.49	55.30	52.63	47.87	68.20	-20.33	peak
4	10440.000	13.63	39.04	53.84	49.87	48.70	68.20	-19.50	peak
5	15660.000	17.23	38.56	54.10	47.16	48.85	74.00	-25.15	peak
6	pp16761.290	17.51	39.52	54.23	47.53	50.33	68.20	-17.87	peak

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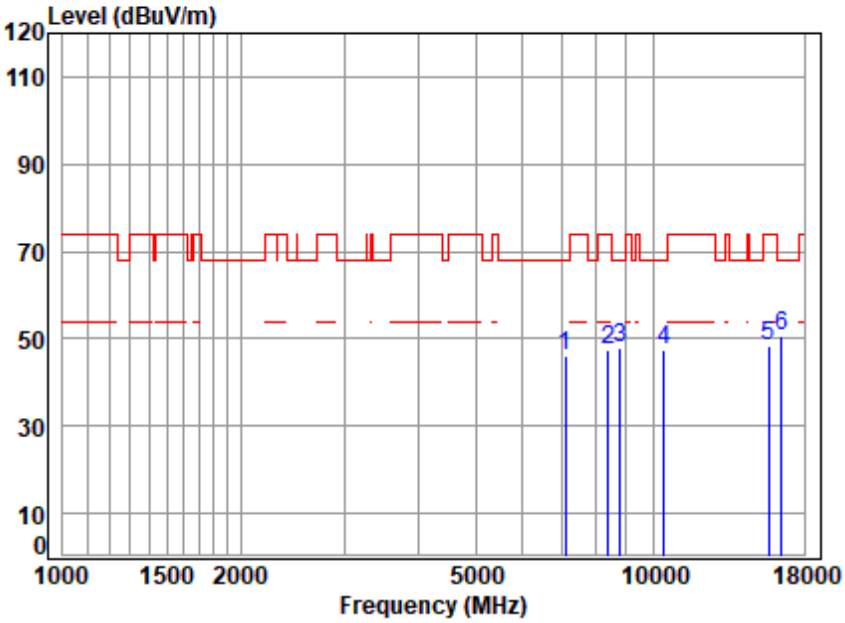
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5220 TX RSE
: 5G WIFI 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	54.27	46.03	68.20	-22.17	peak
2	8393.547	11.64	38.61	55.55	52.61	47.31	74.00	-26.69	peak
3	8796.179	12.24	38.50	55.18	52.37	47.93	68.20	-20.27	peak
4	10440.000	13.63	39.04	53.84	48.55	47.38	68.20	-20.82	peak
5	15660.000	17.23	38.56	54.10	46.85	48.54	74.00	-25.46	peak
6	pp16507.140	17.73	38.92	54.15	48.21	50.71	68.20	-17.49	peak

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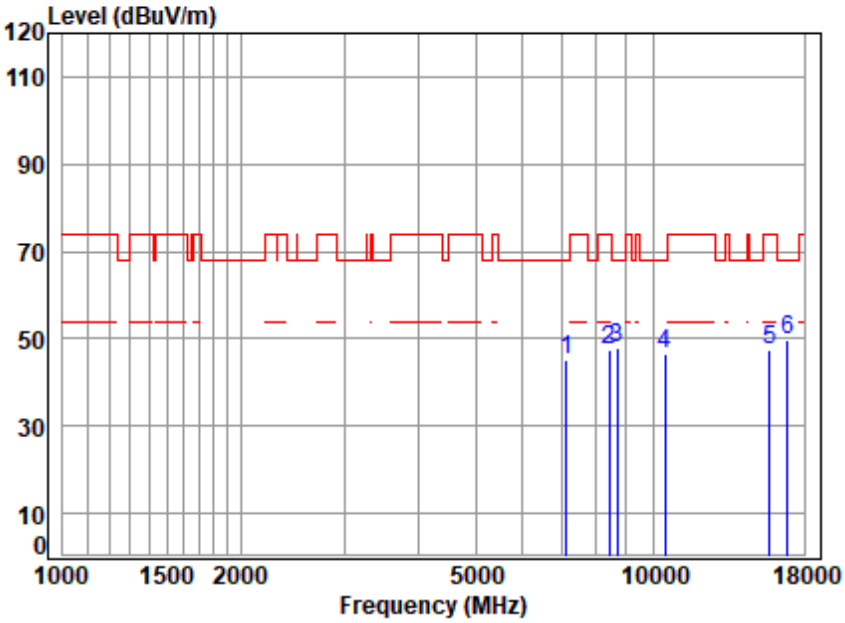
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5240 TX RSE
: 5G WIFI 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	53.33	45.04	68.20	-23.16	peak
2	8410.663	11.70	38.56	55.53	52.79	47.52	74.00	-26.48	peak
3	8671.635	12.05	38.49	55.30	52.66	47.90	68.20	-20.30	peak
4	10480.000	13.64	39.08	53.81	47.52	46.43	68.20	-21.77	peak
5	15720.000	17.22	38.58	54.08	45.68	47.40	74.00	-26.60	peak
6	pp16846.870	17.80	39.60	54.25	46.72	49.87	68.20	-18.33	peak

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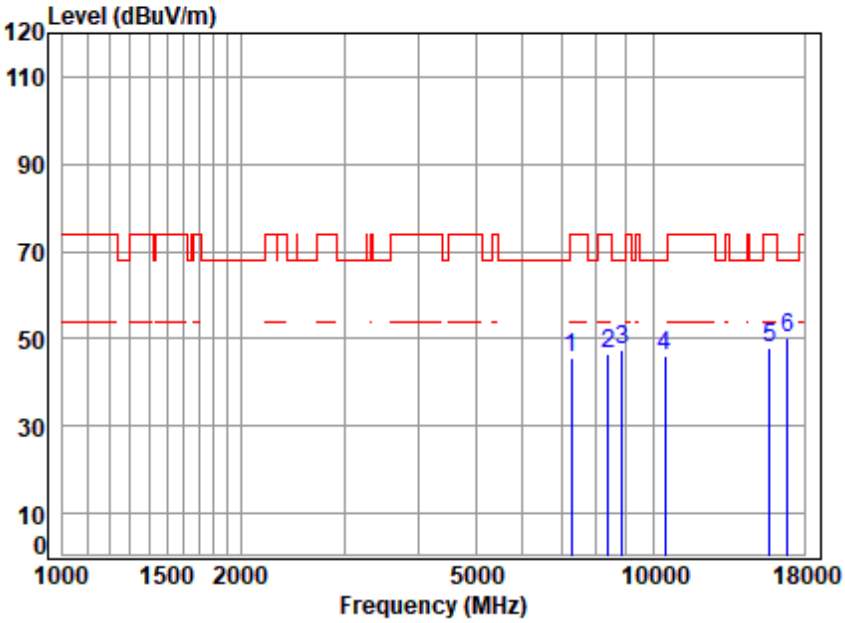
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5240 TX RSE
: 5G WIFI 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	7270.644	11.51	36.64	56.48	54.16	45.83	74.00	-28.17	peak
2	8393.547	11.64	38.61	55.55	51.75	46.45	74.00	-27.55	peak
3	8868.147	12.23	38.54	55.12	51.73	47.38	68.20	-20.82	peak
4	10480.000	13.64	39.08	53.81	47.20	46.11	68.20	-22.09	peak
5	15720.000	17.22	38.58	54.08	46.09	47.81	74.00	-26.19	peak
6	pp16881.220	18.04	39.60	54.26	46.72	50.10	68.20	-18.10	peak

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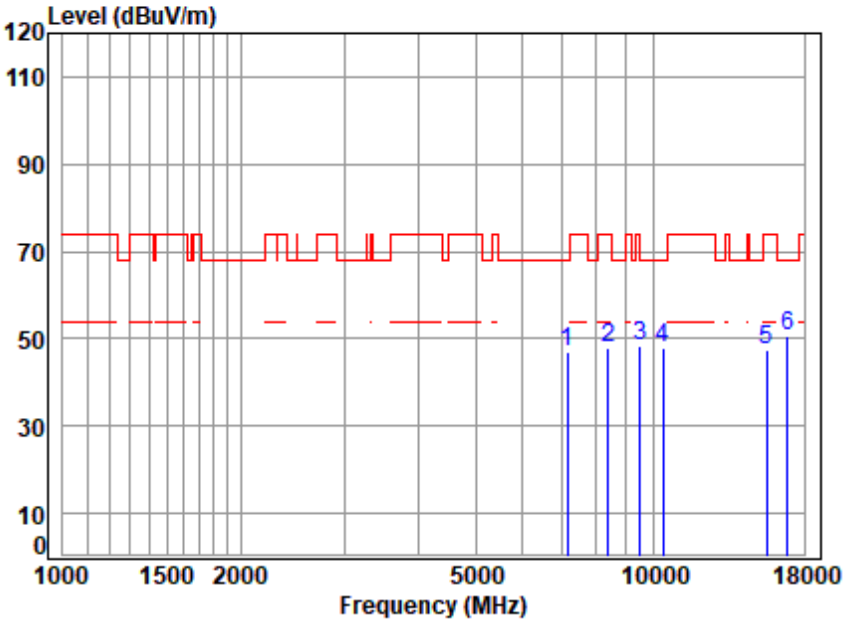
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5190 TX RSE
: 5G WIFI 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	55.47	47.14	68.20	-21.06	peak
2	8385.002	11.65	38.63	55.55	53.04	47.77	74.00	-26.23	peak
3	9494.476	12.55	38.89	54.55	51.44	48.33	74.00	-25.67	peak
4	10380.000	13.61	39.00	53.87	48.96	47.70	68.20	-20.50	peak
5	15570.000	17.09	38.53	54.13	45.98	47.47	74.00	-26.53	peak
6	pp16898.430	18.17	39.60	54.27	47.30	50.80	68.20	-17.40	peak

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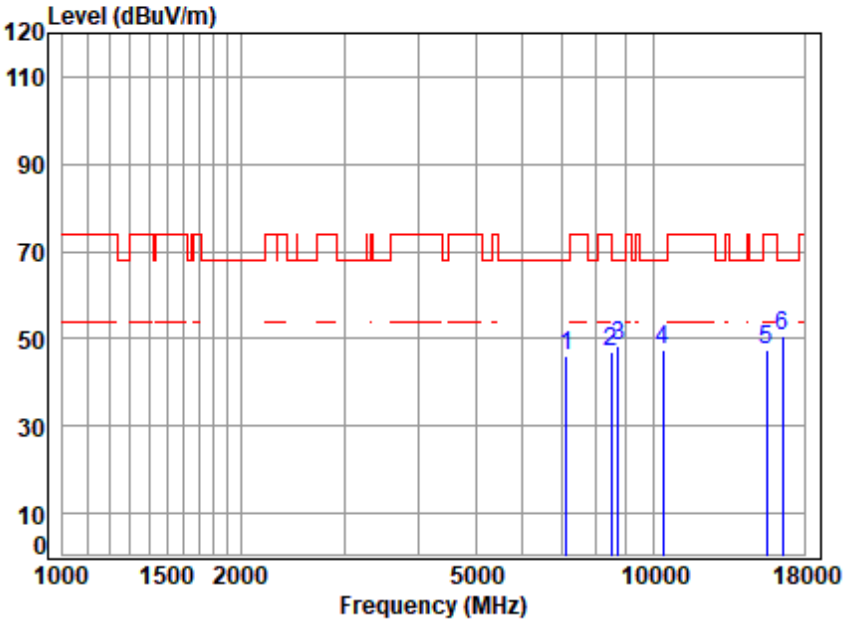
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5190 TX RSE
: 5G WIFI 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	7131.289	11.84	36.46	56.59	54.32	46.03	68.20	-22.17	peak
2	8496.769	12.29	38.31	55.45	51.83	46.98	74.00	-27.02	peak
3	8707.038	12.10	38.59	55.26	52.86	48.29	68.20	-19.91	peak
4	10380.000	13.61	39.00	53.87	48.86	47.60	68.20	-20.60	peak
5	15570.000	17.09	38.53	54.13	46.01	47.50	74.00	-26.50	peak
6	pp16557.660	17.69	39.07	54.17	48.15	50.74	68.20	-17.46	peak

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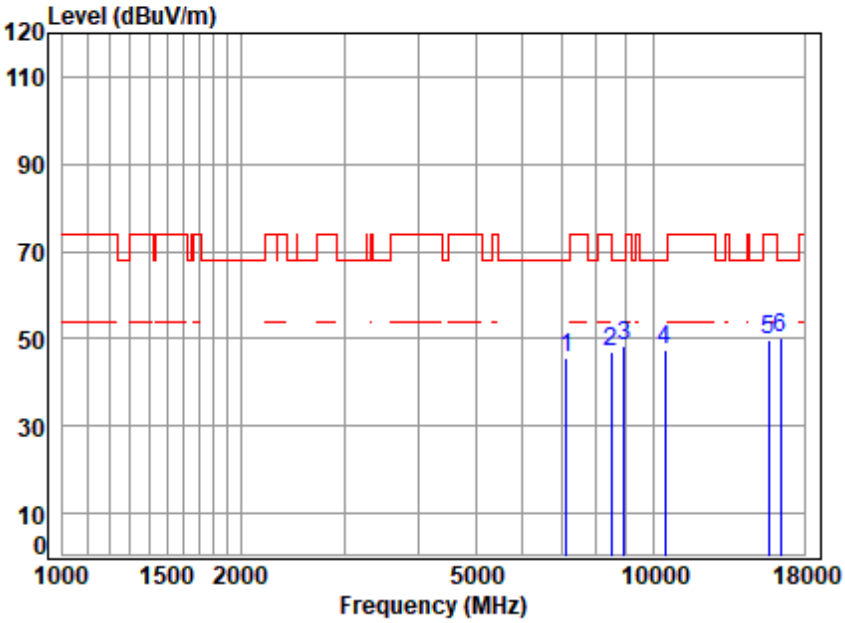
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5230 TX RSE
: 5G WIFI 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	53.91	45.64	68.20	-22.56	peak
2	8496.769	12.29	38.31	55.45	51.89	47.04	74.00	-26.96	peak
3	8913.427	12.21	38.57	55.08	52.57	48.27	68.20	-19.93	peak
4	10460.000	13.63	39.06	53.82	48.77	47.64	68.20	-20.56	peak
5	15690.000	17.26	38.59	54.09	47.82	49.58	74.00	-24.42	peak
6	pp16440.030	17.39	38.84	54.13	48.26	50.36	68.20	-17.84	peak

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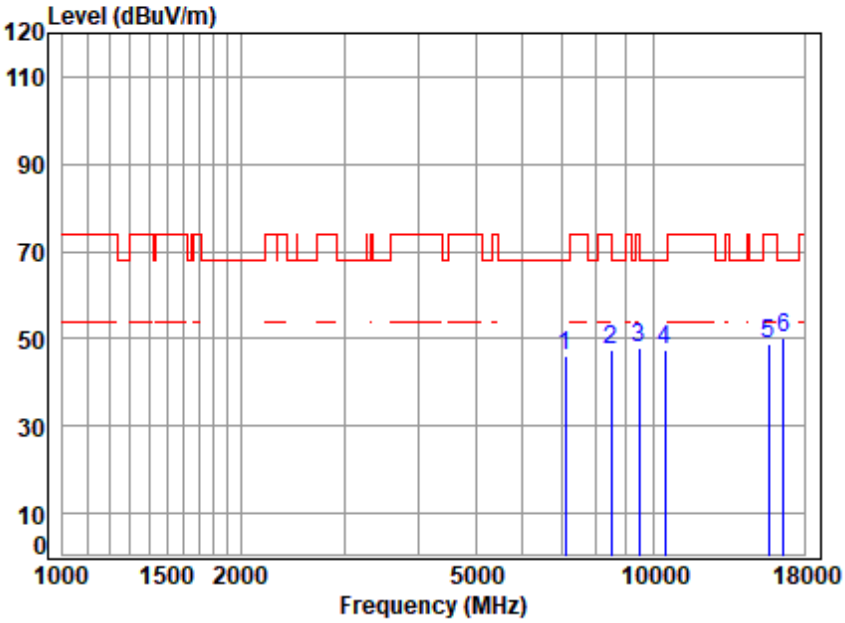
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5230 TX RSE
: 5G WIFI 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	7109.531	11.95	36.42	56.61	54.52	46.28	68.20	-21.92	peak
2	8496.769	12.29	38.31	55.45	52.19	47.34	74.00	-26.66	peak
3	9446.244	12.42	38.80	54.60	51.21	47.83	74.00	-26.17	peak
4	10460.000	13.63	39.06	53.82	48.73	47.60	68.20	-20.60	peak
5	15690.000	17.26	38.59	54.09	47.07	48.83	74.00	-25.17	peak
6	pp16591.430	17.66	39.17	54.18	47.69	50.34	68.20	-17.86	peak

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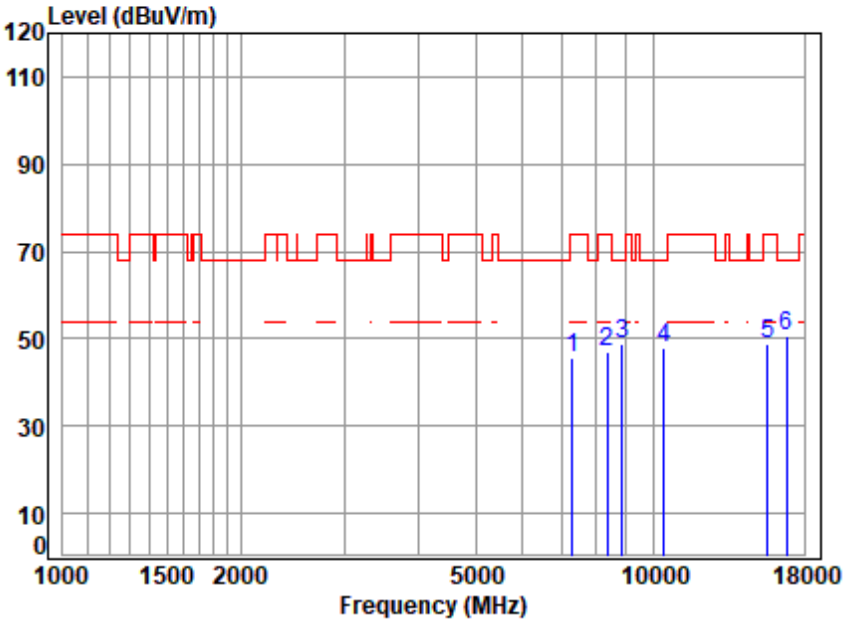
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5210 TX RSE
: 5G WIFI 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	54.09	45.80	74.00	-28.20	peak
2	8350.908	11.69	38.70	55.58	52.38	47.19	74.00	-26.81	peak
3	8850.100	12.23	38.50	55.13	53.20	48.80	68.20	-19.40	peak
4	10420.000	13.62	39.02	53.85	48.92	47.71	68.20	-20.49	peak
5	15630.000	17.20	38.53	54.11	47.38	49.00	74.00	-25.00	peak
6	pp16795.470	17.47	39.59	54.24	47.99	50.81	68.20	-17.39	peak

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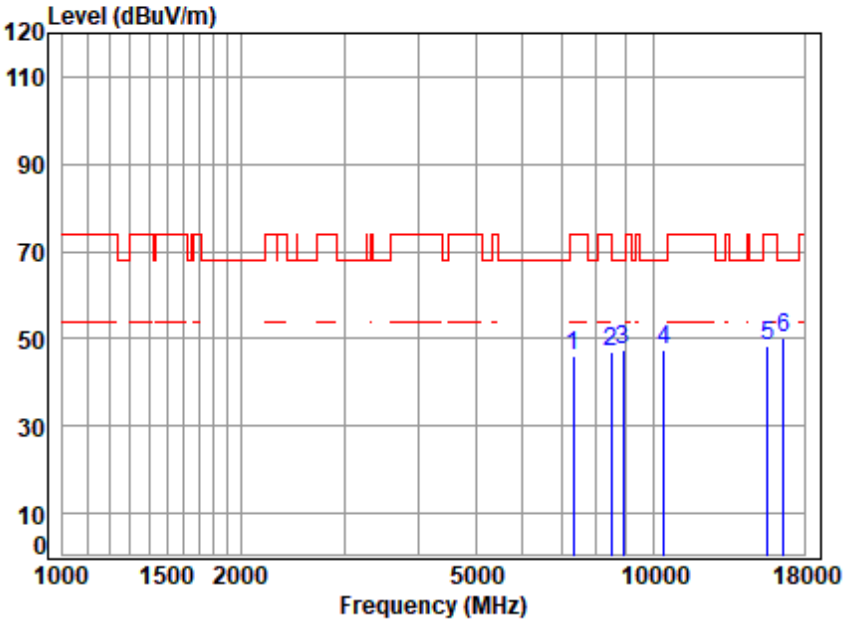
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5210 TX RSE
: 5G WIFI 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	54.25	46.04	74.00	-27.96	peak
2	8488.119	12.23	38.32	55.46	51.98	47.07	74.00	-26.93	peak
3	8877.185	12.23	38.55	55.11	51.84	47.51	68.20	-20.69	peak
4	10420.000	13.62	39.02	53.85	48.44	47.23	68.20	-20.97	peak
5	15630.000	17.20	38.53	54.11	46.83	48.45	74.00	-25.55	peak
6	pp16591.430	17.66	39.17	54.18	47.69	50.34	68.20	-17.86	peak

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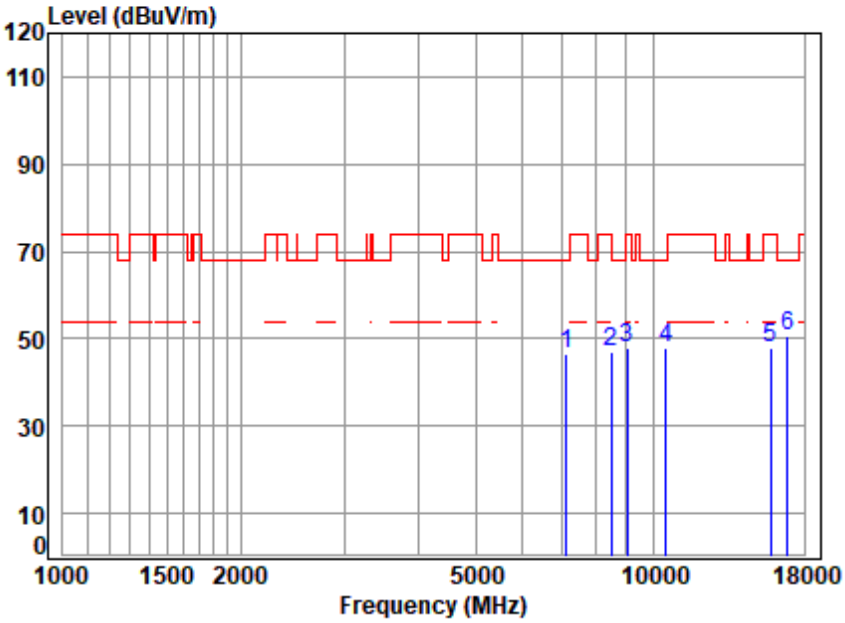
Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5260 TX RSE
: 5G WIFI 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	54.69	46.42	68.20	-21.78	peak
2	8488.119	12.23	38.32	55.46	52.10	47.19	74.00	-26.81	peak
3	9032.237	12.14	38.60	54.97	52.28	48.05	74.00	-25.95	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	46.27	47.80	74.00	-26.20	peak
6	pp16846.870	17.80	39.60	54.25	47.58	50.73	68.20	-17.47	peak

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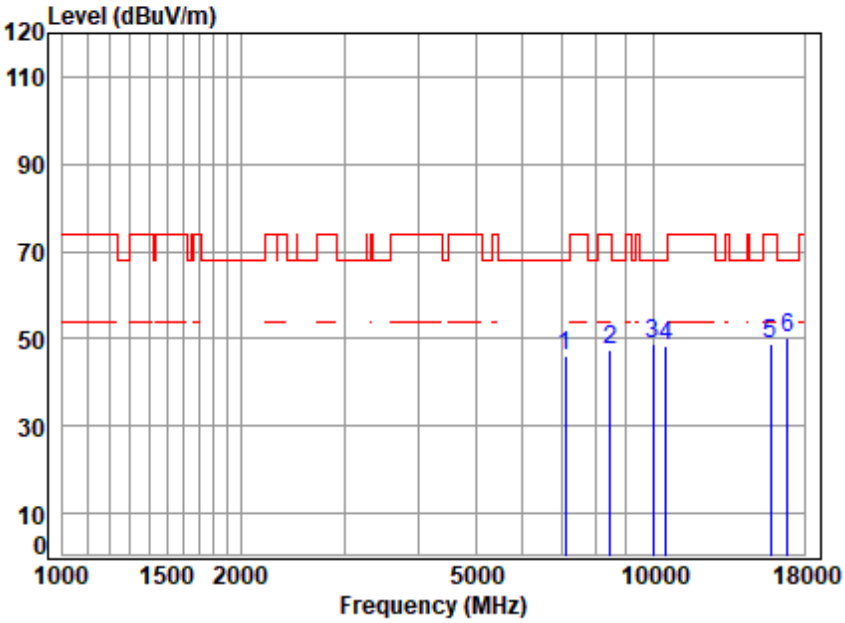
Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5260 TX RSE
: 5G WIFI 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	54.30	46.06	68.20	-22.14	peak
2	8453.606	11.99	38.39	55.49	52.57	47.46	74.00	-26.54	peak
3	9970.208	12.95	38.90	54.13	50.92	48.64	68.20	-19.56	peak
4	10520.000	13.63	39.14	53.79	49.23	48.21	68.20	-19.99	peak
5	15780.000	17.08	38.52	54.07	47.22	48.75	74.00	-25.25	peak
6	pp16898.430	18.17	39.60	54.27	46.78	50.28	68.20	-17.92	peak

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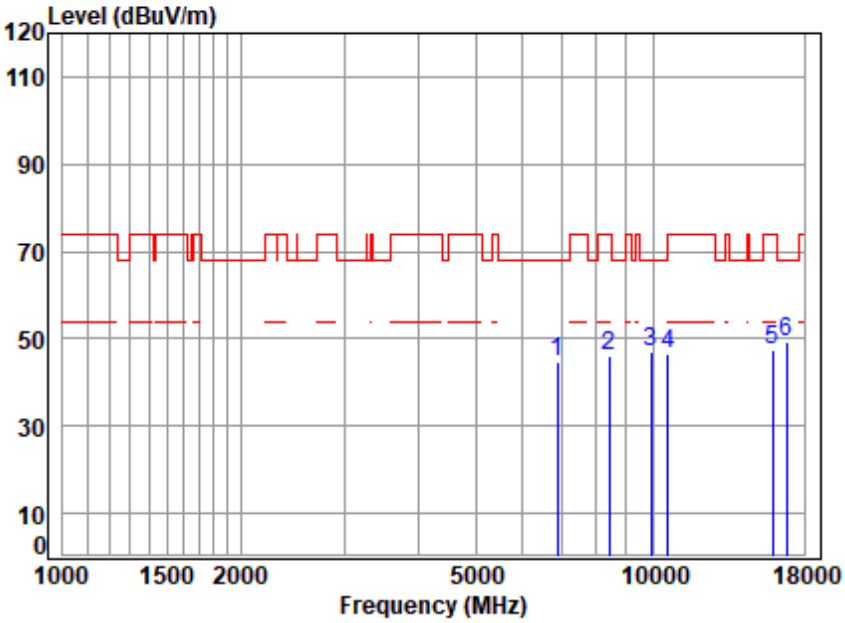
Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5300 TX RSE
: 5G WIFI 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	6888.550	11.37	36.15	56.72	54.06	44.86	68.20	-23.34	peak
2	8419.234	11.76	38.52	55.52	51.44	46.20	74.00	-27.80	peak
3	9919.560	12.84	38.90	54.17	49.42	46.99	68.20	-21.21	peak
4	10600.000	13.59	39.30	53.74	47.60	46.75	68.20	-21.45	peak
5	15900.000	17.28	38.70	54.03	45.69	47.64	74.00	-26.36	peak
6	pp16778.370	17.49	39.56	54.23	46.58	49.40	68.20	-18.80	peak

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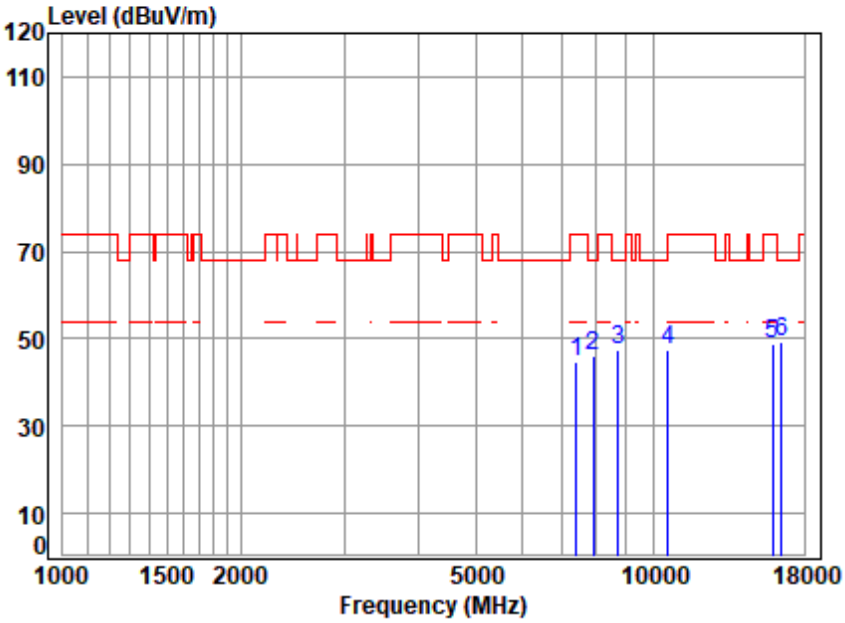
Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5300 TX RSE
: 5G WIFI 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	7405.175	11.49	36.71	56.38	53.11	44.93	74.00	-29.07	peak
2	7928.178	11.55	37.66	55.96	53.05	46.30	68.20	-21.90	peak
3	8715.911	12.12	38.57	55.26	52.05	47.48	68.20	-20.72	peak
4	10600.000	13.59	39.30	53.74	48.13	47.28	68.20	-20.92	peak
5	15900.000	17.28	38.70	54.03	46.85	48.80	74.00	-25.20	peak
6	pp16507.140	17.73	38.92	54.15	46.96	49.46	68.20	-18.74	peak

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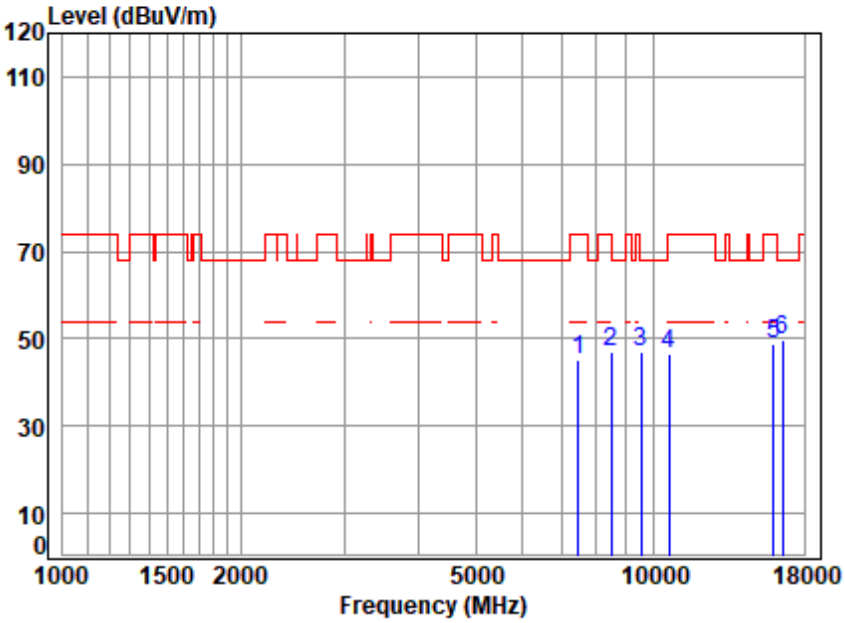
Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5320 TX RSE
: 5G WIFI 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	7465.763	11.32	36.80	56.33	53.21	45.00	74.00	-29.00	peak
2	8488.119	12.23	38.32	55.46	51.79	46.88	74.00	-27.12	peak
3	9542.952	12.50	38.81	54.51	50.32	47.12	68.20	-21.08	peak
4	10640.000	13.77	39.34	53.72	47.06	46.45	74.00	-27.55	peak
5	15960.000	17.20	38.64	54.01	47.07	48.90	74.00	-25.10	peak
6	pp16540.810	17.70	39.02	54.16	46.96	49.52	68.20	-18.68	peak

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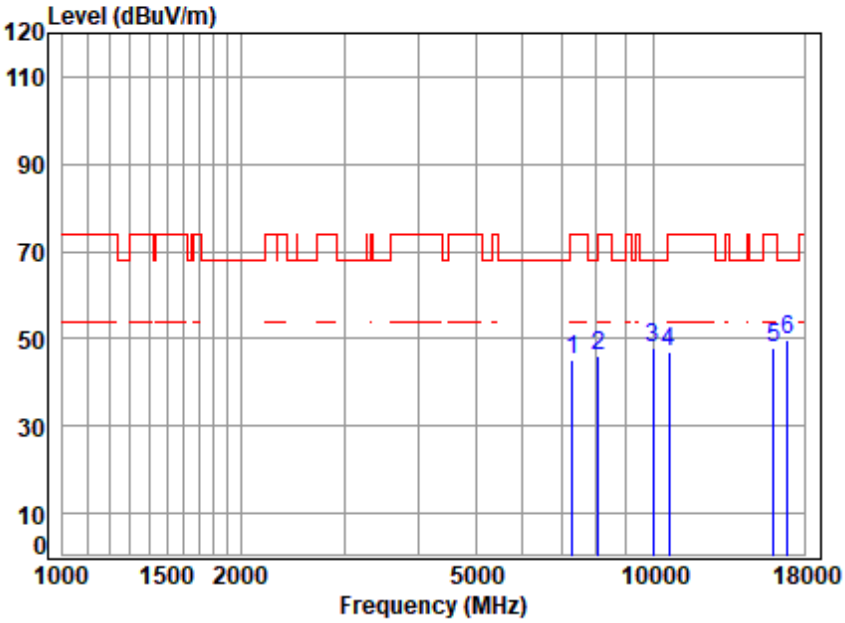
Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5320 TX RSE
: 5G WIFI 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	7285.470	11.51	36.67	56.47	53.57	45.28	74.00	-28.72	peak
2	8074.876	11.48	37.80	55.83	52.76	46.21	74.00	-27.79	peak
3	10000.720	13.01	38.90	54.10	50.14	47.95	68.20	-20.25	peak
4	10640.000	13.77	39.34	53.72	47.49	46.88	74.00	-27.12	peak
5	15960.000	17.20	38.64	54.01	46.02	47.85	74.00	-26.15	peak
6	pp16898.430	18.17	39.60	54.27	46.15	49.65	68.20	-18.55	peak

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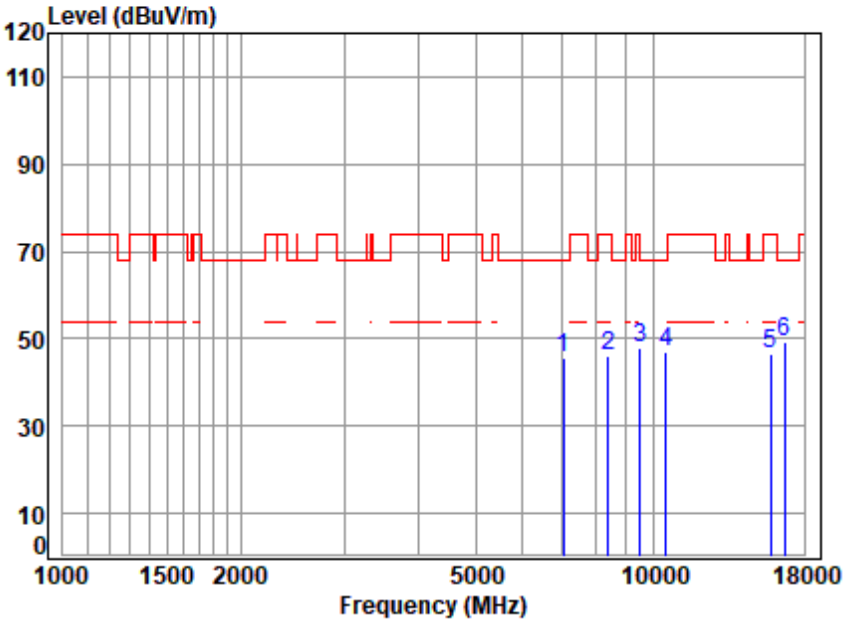
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5260 TX RSE
: 5G WIFI 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	7037.483	11.60	36.27	56.67	54.26	45.46	68.20	-22.74	peak
2	8376.465	11.66	38.65	55.56	51.53	46.28	74.00	-27.72	peak
3	9494.476	12.55	38.89	54.55	50.80	47.69	74.00	-26.31	peak
4	10520.000	13.63	39.14	53.79	47.92	46.90	68.20	-21.30	peak
5	15780.000	17.08	38.52	54.07	45.03	46.56	74.00	-27.44	peak
6	pp16659.160	17.61	39.32	54.20	46.72	49.45	68.20	-18.75	peak

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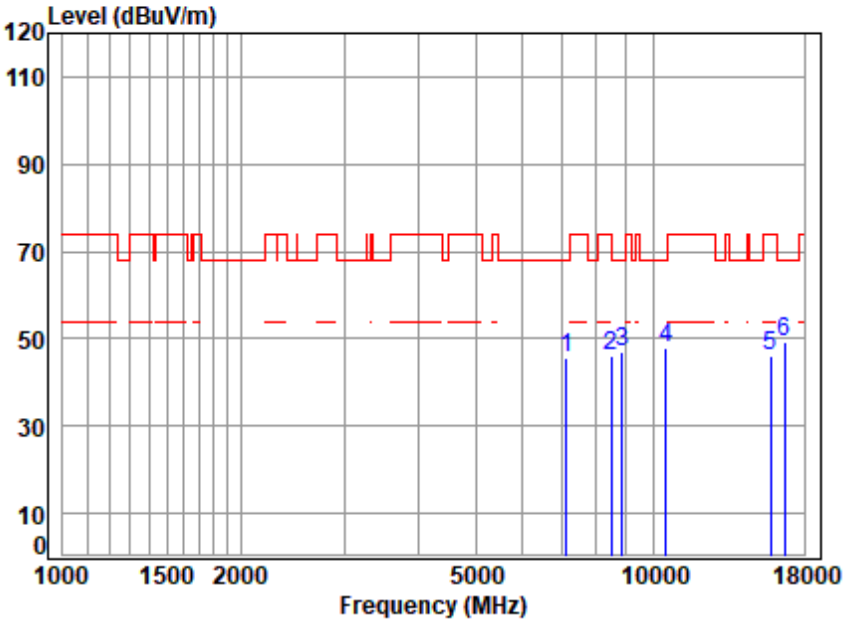
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5260 TX RSE
: 5G WIFI 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	53.76	45.49	68.20	-22.71	peak
2	8488.119	12.23	38.32	55.46	51.13	46.22	74.00	-27.78	peak
3	8859.119	12.23	38.52	55.13	51.45	47.07	68.20	-21.13	peak
4	10520.000	13.63	39.14	53.79	48.95	47.93	68.20	-20.27	peak
5	15780.000	17.08	38.52	54.07	44.38	45.91	74.00	-28.09	peak
6	pp16693.140	17.59	39.39	54.21	46.67	49.44	68.20	-18.76	peak

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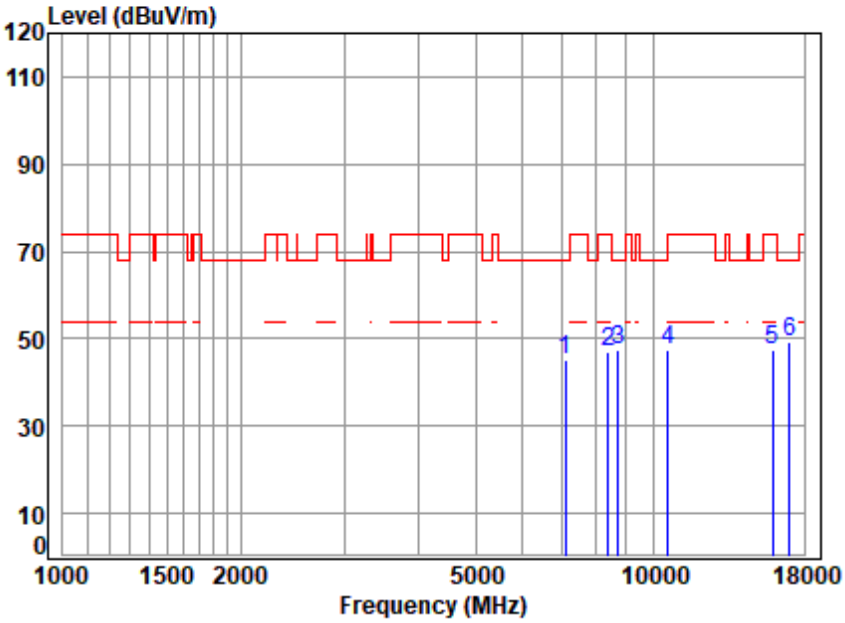
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5300 TX RSE
: 5G WIFI 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	53.45	45.21	68.20	-22.99	peak
2	8376.465	11.66	38.65	55.56	52.39	47.14	74.00	-26.86	peak
3	8707.038	12.10	38.59	55.26	52.01	47.44	68.20	-20.76	peak
4	10600.000	13.59	39.30	53.74	48.18	47.33	68.20	-20.87	peak
5	15900.000	17.28	38.70	54.03	45.59	47.54	74.00	-26.46	peak
6	pp17002.020	18.08	39.70	54.30	45.93	49.41	68.20	-18.79	peak

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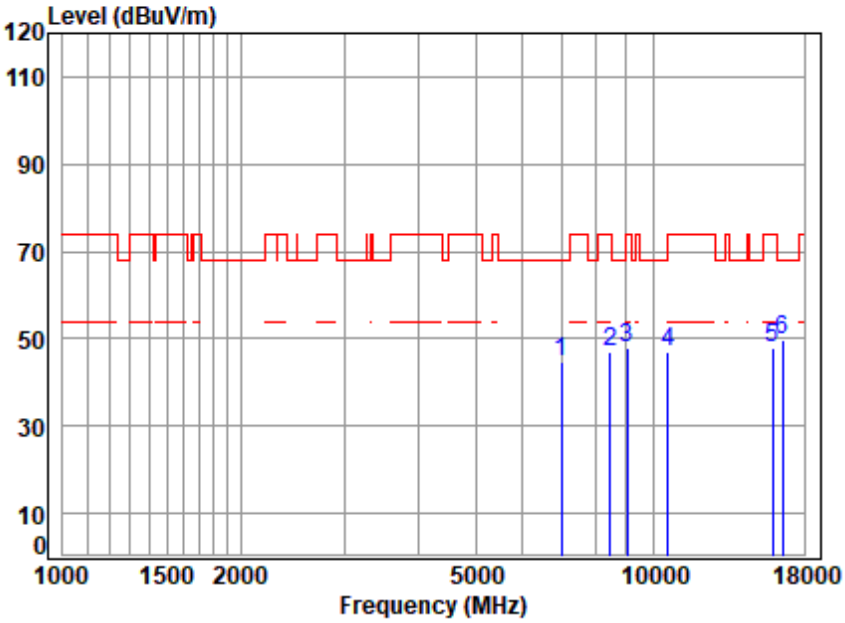
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5300 TX RSE
: 5G WIFI 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	6994.605	11.37	36.19	56.70	53.91	44.77	68.20	-23.43	peak
2	8453.606	11.99	38.39	55.49	52.20	47.09	74.00	-26.91	peak
3	9041.442	12.14	38.60	54.96	52.24	48.02	74.00	-25.98	peak
4	10600.000	13.59	39.30	53.74	47.64	46.79	68.20	-21.41	peak
5	15900.000	17.28	38.70	54.03	45.96	47.91	74.00	-26.09	peak
6	pp16557.660	17.69	39.07	54.17	47.18	49.77	68.20	-18.43	peak

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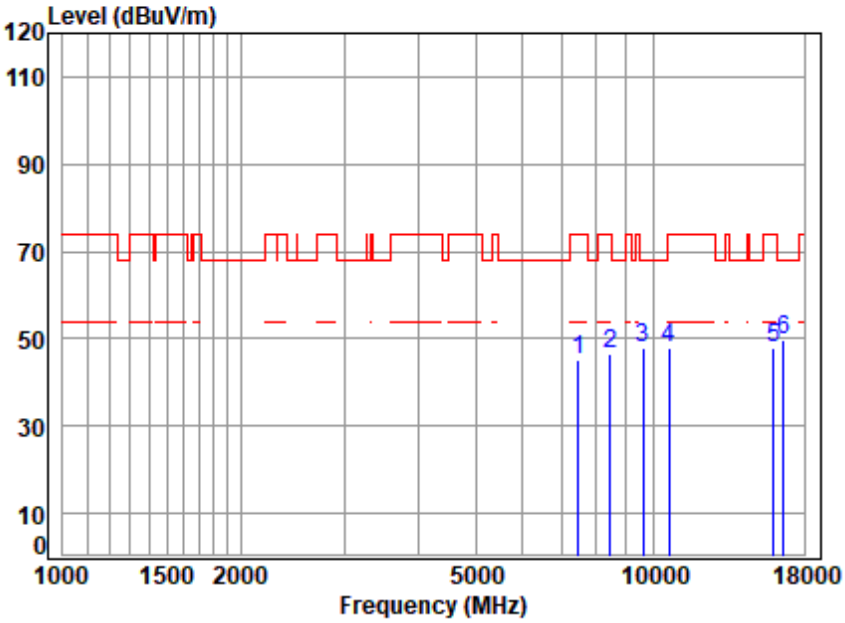
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5320 TX RSE
: 5G WIFI 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	7458.163	11.34	36.80	56.33	53.16	44.97	74.00	-29.03	peak
2	8445.000	11.94	38.42	55.50	51.78	46.64	74.00	-27.36	peak
3	9621.031	12.49	38.76	54.44	51.15	47.96	68.20	-20.24	peak
4	10640.000	13.77	39.34	53.72	48.63	48.02	74.00	-25.98	peak
5	15960.000	17.20	38.64	54.01	45.92	47.75	74.00	-26.25	peak
6	pp16608.340	17.64	39.22	54.18	46.92	49.60	68.20	-18.60	peak

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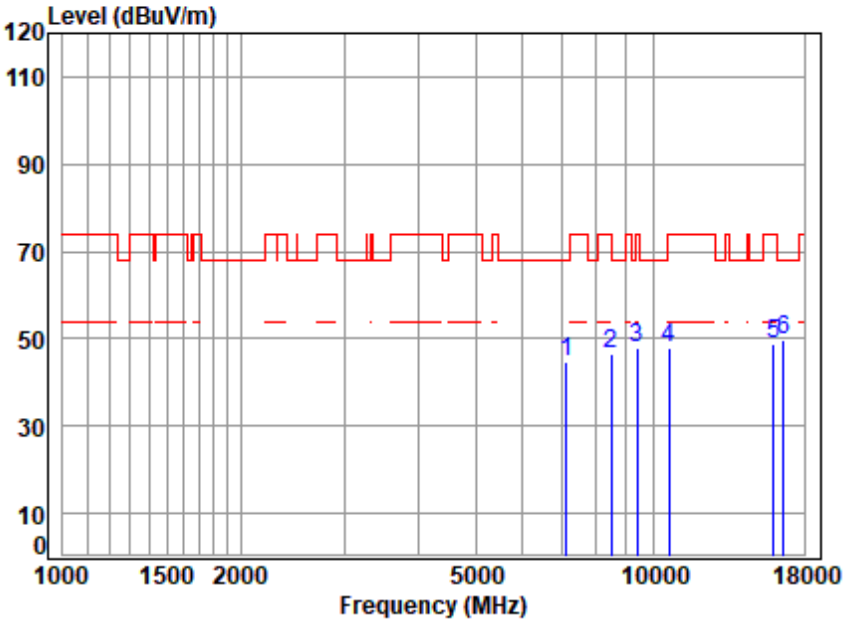
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5320 TX RSE
: 5G WIFI 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	53.20	44.93	68.20	-23.27	peak
2	8488.119	12.23	38.32	55.46	51.30	46.39	74.00	-27.61	peak
3	9398.258	12.30	38.80	54.64	51.64	48.10	74.00	-25.90	peak
4	10640.000	13.77	39.34	53.72	48.42	47.81	74.00	-26.19	peak
5	15960.000	17.20	38.64	54.01	46.90	48.73	74.00	-25.27	peak
6	pp16608.340	17.64	39.22	54.18	47.08	49.76	68.20	-18.44	peak

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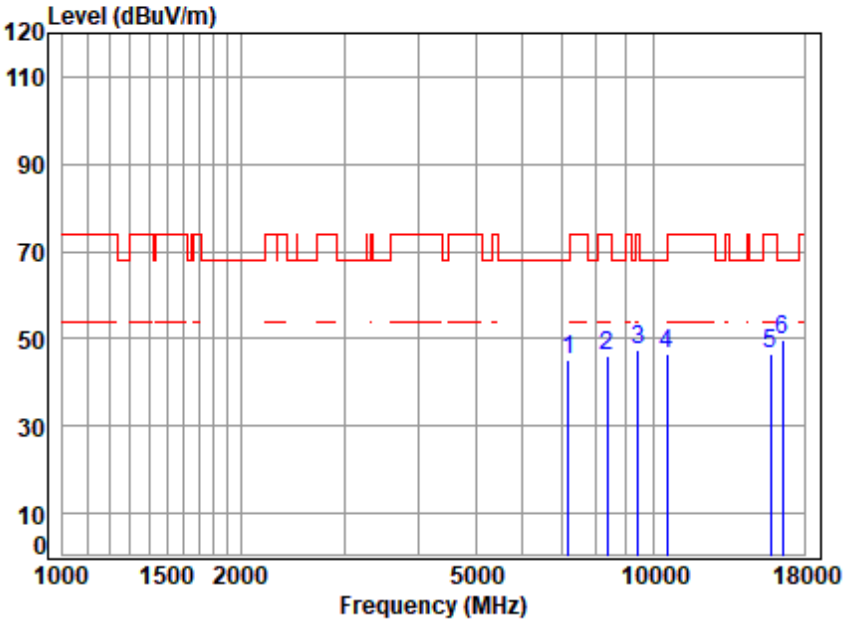
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5270 TX RSE
: 5G WIFI 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	53.46	45.09	68.20	-23.11	peak
2	8342.406	11.70	38.58	55.59	51.43	46.12	74.00	-27.88	peak
3	9436.627	12.40	38.80	54.61	50.68	47.27	74.00	-26.73	peak
4	10540.000	13.62	39.18	53.78	47.56	46.58	68.20	-21.62	peak
5	15810.000	17.06	38.52	54.06	44.99	46.51	74.00	-27.49	peak
6	pp16523.970	17.72	38.97	54.16	47.12	49.65	68.20	-18.55	peak

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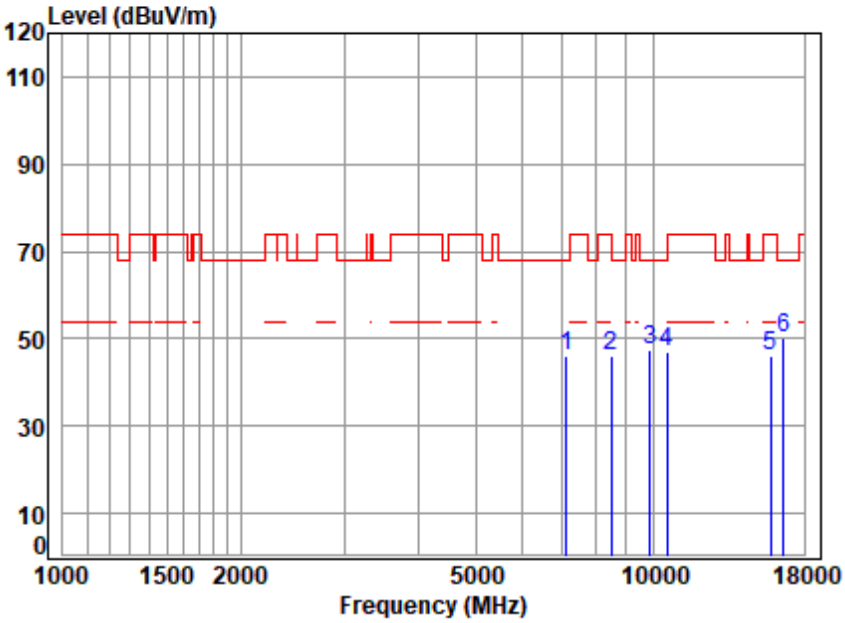
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5270 TX RSE
: 5G WIFI 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	54.48	46.21	68.20	-21.99	peak
2	8488.119	12.23	38.32	55.46	50.79	45.88	74.00	-28.12	peak
3	9859.122	12.92	38.00	54.23	50.82	47.51	68.20	-20.69	peak
4	10540.000	13.62	39.18	53.78	47.82	46.84	68.20	-21.36	peak
5	15810.000	17.06	38.52	54.06	44.58	46.10	74.00	-27.90	peak
6	pp16625.260	17.63	39.25	54.19	47.60	50.29	68.20	-17.91	peak

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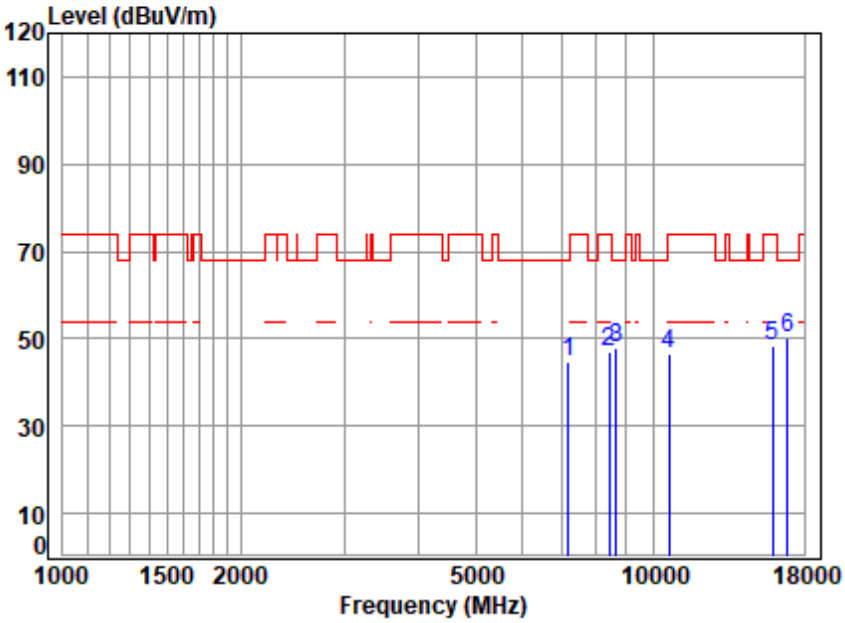
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5310 TX RSE
: 5G WIFI 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	53.17	44.80	68.20	-23.40	peak
2	8427.813	11.82	38.49	55.51	52.39	47.19	74.00	-26.81	peak
3	8662.807	12.04	38.45	55.30	52.84	48.03	68.20	-20.17	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	46.36	48.25	74.00	-25.75	peak
6	pp16898.430	18.17	39.60	54.27	46.89	50.39	68.20	-17.81	peak

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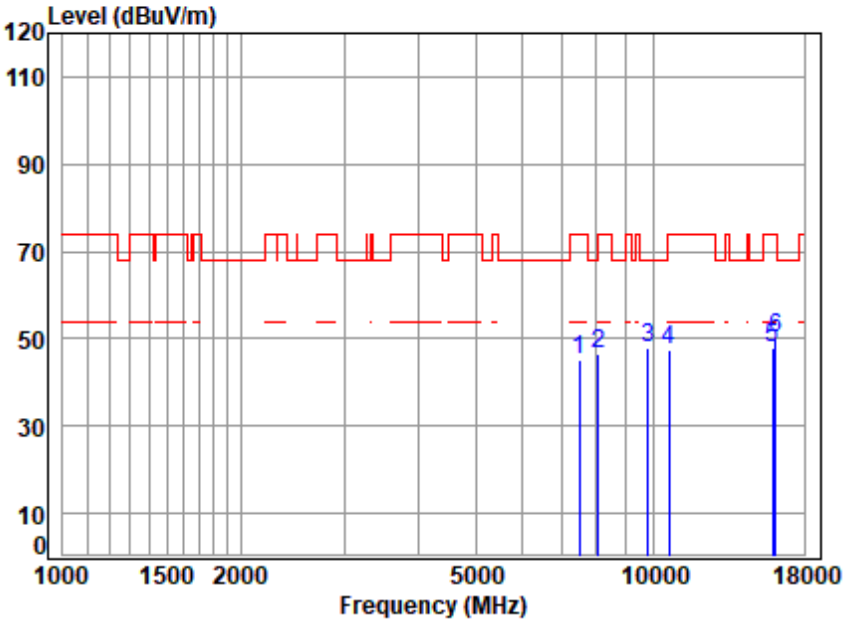
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5310 TX RSE
: 5G WIFI 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	7488.611	11.26	36.80	56.31	53.43	45.18	74.00	-28.82	peak
2	8074.876	11.48	37.80	55.83	52.97	46.42	74.00	-27.58	peak
3	pp 9789.077	13.05	38.60	54.29	50.36	47.72	68.20	-20.48	peak
4	10620.000	13.68	39.32	53.73	48.01	47.28	74.00	-26.72	peak
5	15930.000	17.24	38.67	54.02	46.25	48.14	74.00	-25.86	peak
6	16092.110	17.08	38.51	54.03	48.54	50.10	74.00	-23.90	peak

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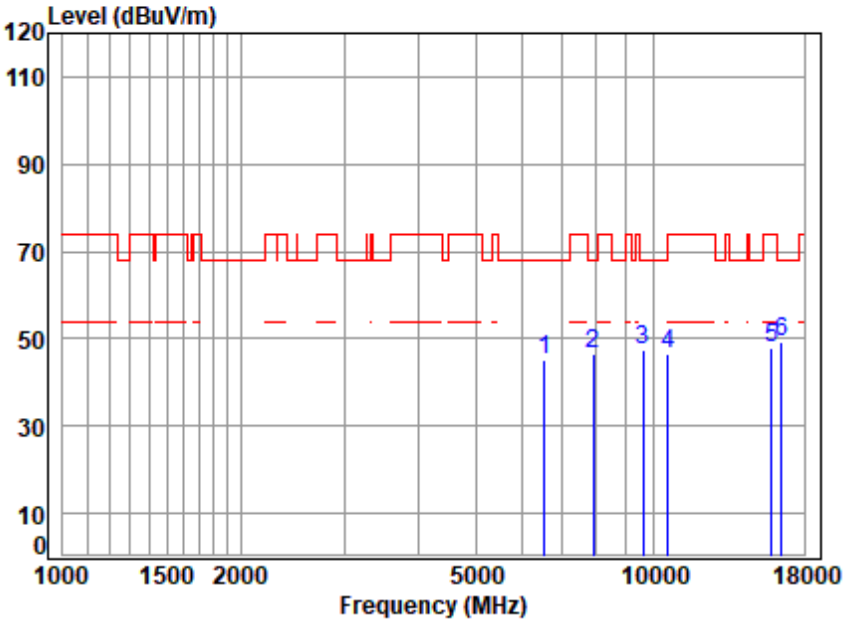
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5290 TX RSE
: 5G WIFI 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	6546.511	11.64	34.99	56.79	55.37	45.21	68.20	-22.99	peak
2	7928.178	11.55	37.66	55.96	53.18	46.43	68.20	-21.77	peak
3	9621.031	12.49	38.76	54.44	50.75	47.56	68.20	-20.64	peak
4	10580.000	13.60	39.26	53.75	47.54	46.65	68.20	-21.55	peak
5	15870.000	17.20	38.64	54.04	45.99	47.79	74.00	-26.21	peak
6	pp16490.340	17.68	38.89	54.15	46.77	49.19	68.20	-19.01	peak

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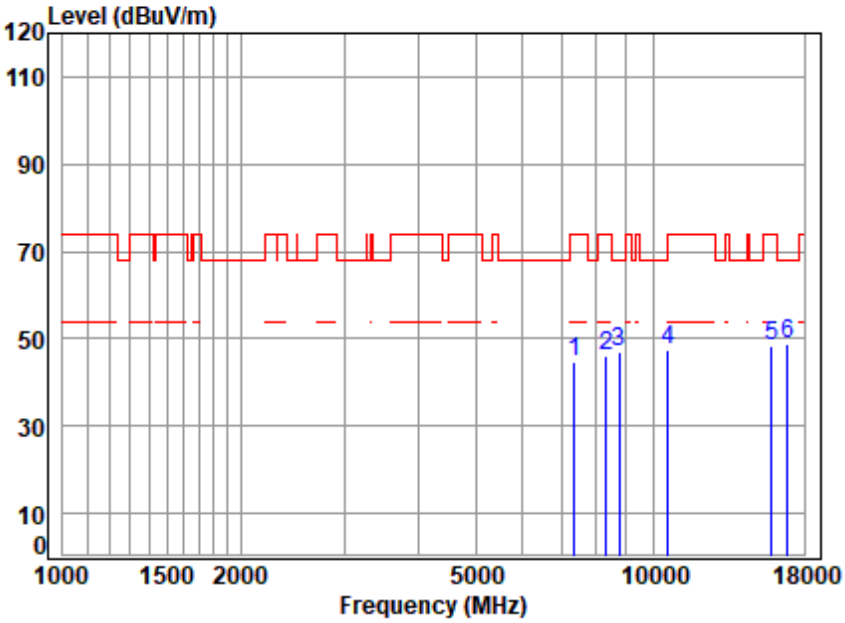
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5290 TX RSE
: 5G WIFI 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	7352.564	11.50	36.79	56.42	52.89	44.76	74.00	-29.24	peak
2	8325.429	11.73	38.31	55.61	51.70	46.13	74.00	-27.87	peak
3	8742.585	12.16	38.51	55.23	51.53	46.97	68.20	-21.23	peak
4	10580.000	13.60	39.26	53.75	48.21	47.32	68.20	-20.88	peak
5	15870.000	17.20	38.64	54.04	46.50	48.30	74.00	-25.70	peak
6	pp16881.220	18.04	39.60	54.26	45.51	48.89	68.20	-19.31	peak

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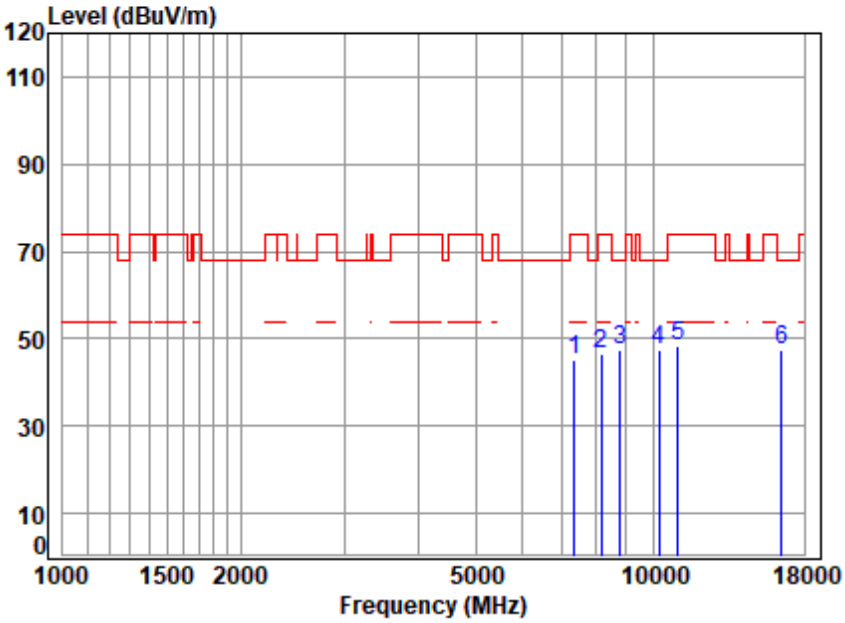
Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5500 TX RSE
: 5G WIFI 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	53.31	45.17	74.00	-28.83	peak
2	8157.544	11.52	37.92	55.76	52.74	46.42	74.00	-27.58	peak
3	8787.224	12.23	38.50	55.19	51.70	47.24	68.20	-20.96	peak
4	10227.350	13.22	39.07	53.96	48.90	47.23	68.20	-20.97	peak
5	11000.000	14.17	39.40	53.50	48.15	48.22	74.00	-25.78	peak
6	pp16500.000	17.74	38.90	54.15	45.18	47.67	68.20	-20.53	peak

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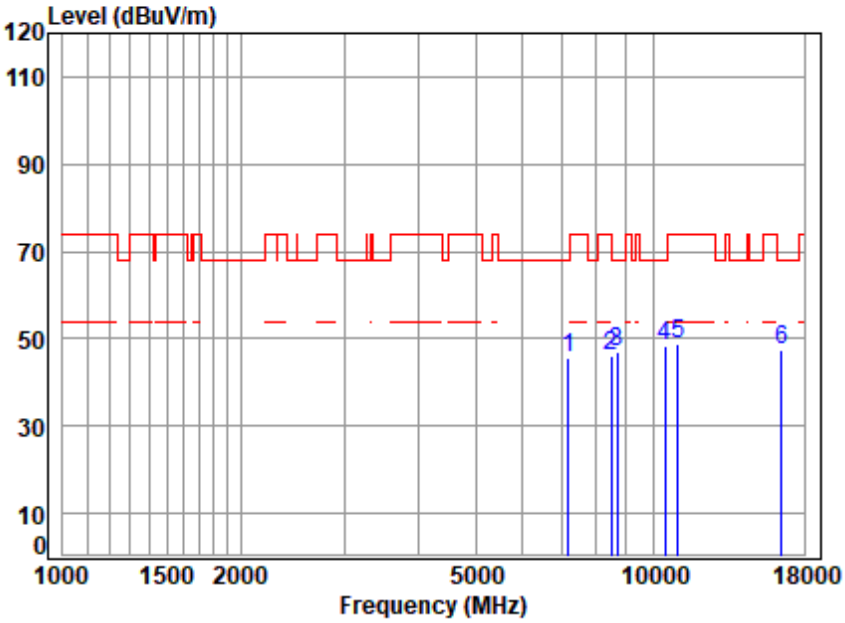
Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5500 TX RSE
: 5G WIFI 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	7175.005	11.64	36.55	56.56	54.22	45.85	68.20	-22.35	peak
2	8488.119	12.23	38.32	55.46	51.07	46.16	74.00	-27.84	peak
3	8689.318	12.08	38.56	55.28	51.82	47.18	68.20	-21.02	peak
4	pp10448.470	13.63	39.05	53.83	49.55	48.40	68.20	-19.80	peak
5	11000.000	14.17	39.40	53.50	48.66	48.73	74.00	-25.27	peak
6	16500.000	17.74	38.90	54.15	44.93	47.42	68.20	-20.78	peak

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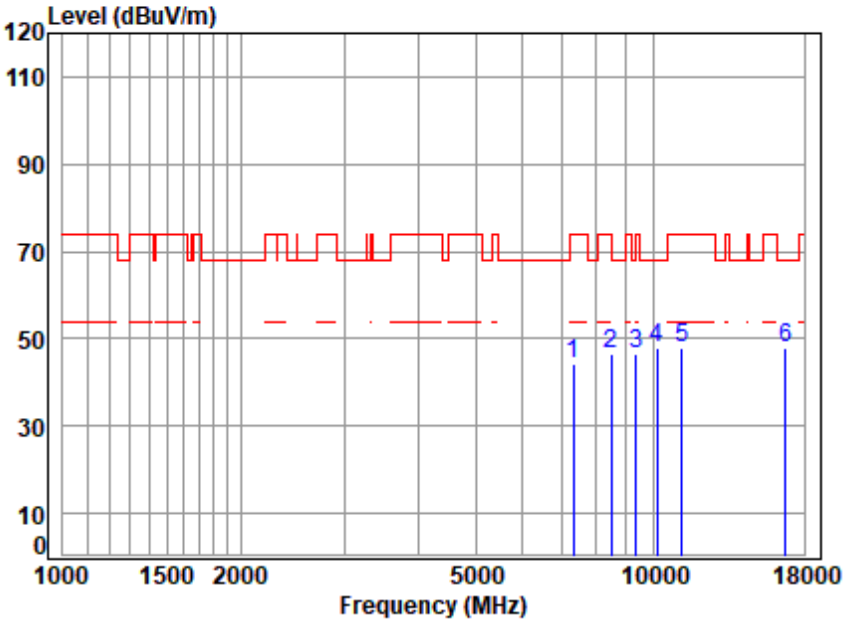
Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5580 TX RSE
: 5G WIFI 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	52.64	44.42	74.00	-29.58	peak
2	8479.478	12.17	38.34	55.47	51.62	46.66	74.00	-27.34	peak
3	9350.516	12.24	38.80	54.68	50.25	46.61	74.00	-27.39	peak
4	10165.040	13.15	39.10	54.00	49.47	47.72	68.20	-20.48	peak
5	11160.000	14.72	39.56	53.55	47.02	47.75	74.00	-26.25	peak
6	pp16740.000	17.54	39.48	54.22	45.33	48.13	68.20	-20.07	peak

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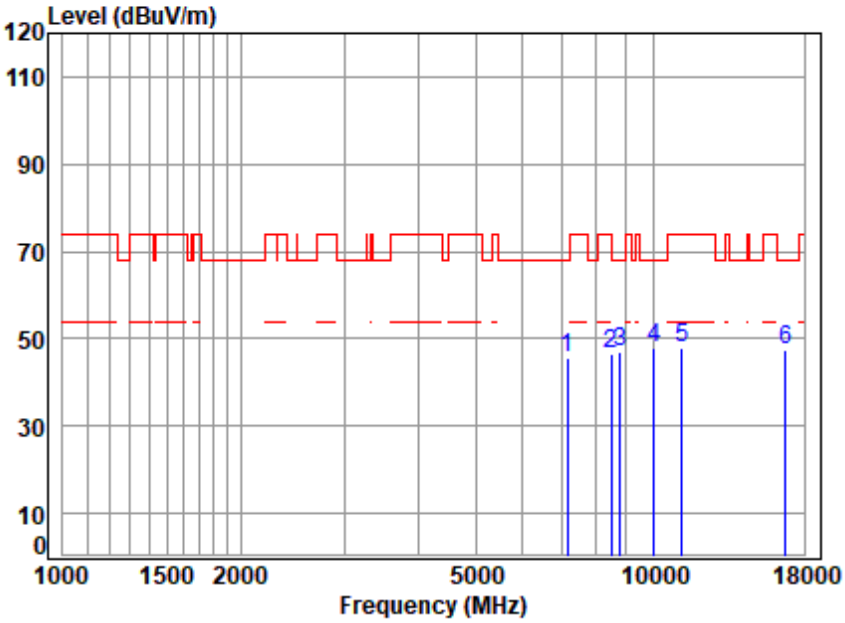
Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5580 TX RSE
: 5G WIFI 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	54.06	45.73	68.20	-22.47	peak
2	8479.478	12.17	38.34	55.47	51.66	46.70	74.00	-27.30	peak
3	8787.224	12.23	38.50	55.19	51.49	47.03	68.20	-21.17	peak
4	pp10021.110	13.06	38.94	54.09	49.96	47.87	68.20	-20.33	peak
5	11160.000	14.72	39.56	53.55	47.37	48.10	74.00	-25.90	peak
6	16740.000	17.54	39.48	54.22	44.47	47.27	68.20	-20.93	peak

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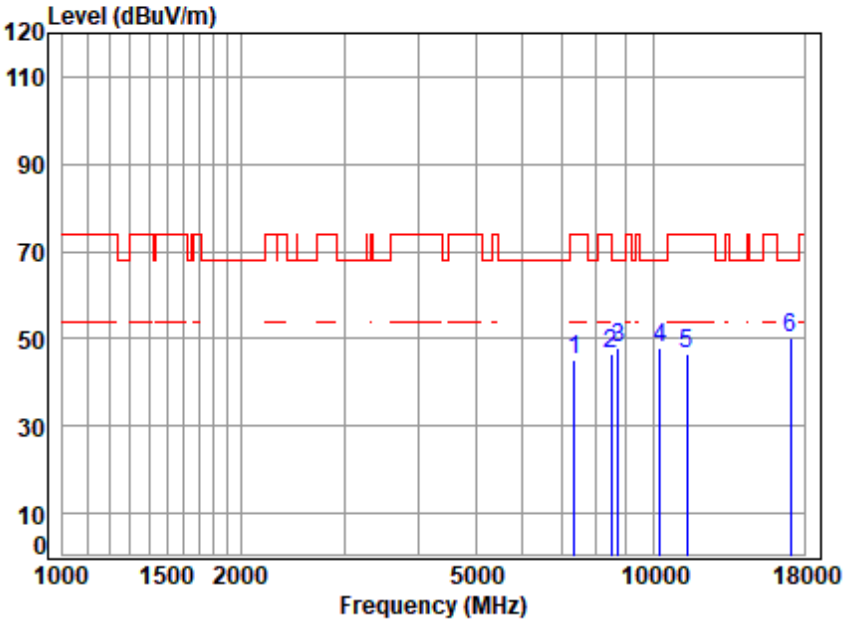
Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5700 TX RSE
: 5G WIFI 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	7352.564	11.50	36.79	56.42	53.38	45.25	74.00	-28.75	peak
2	8496.769	12.29	38.31	55.45	51.32	46.47	74.00	-27.53	peak
3	8707.038	12.10	38.59	55.26	52.26	47.69	68.20	-20.51	peak
4	10279.570	13.48	39.02	53.93	49.55	48.12	68.20	-20.08	peak
5	11400.000	14.21	39.70	53.62	46.46	46.75	74.00	-27.25	peak
6	pp17100.000	18.47	39.80	54.32	46.11	50.06	68.20	-18.14	peak

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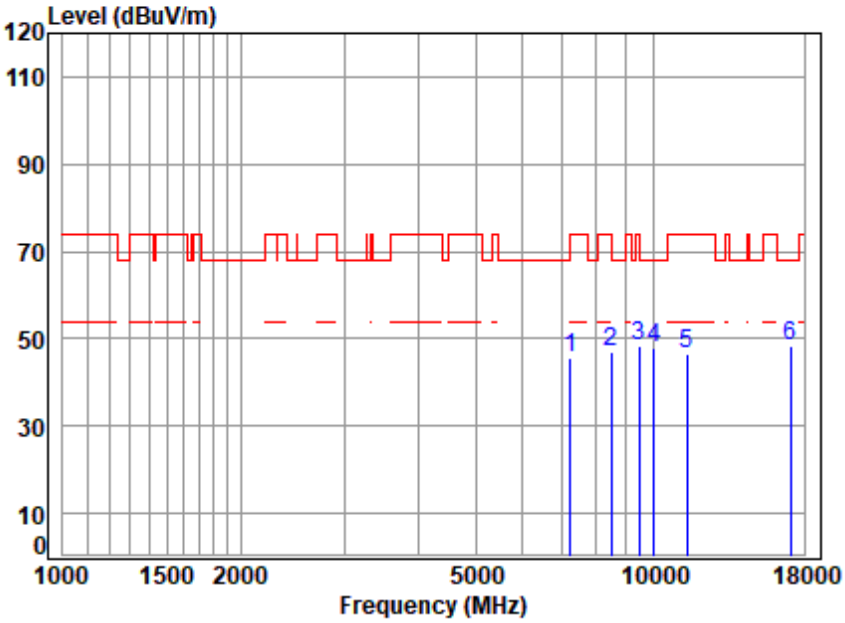
Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5700 TX RSE
: 5G WIFI 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	7233.709	11.52	36.60	56.51	53.90	45.51	68.20	-22.69	peak
2	8496.769	12.29	38.31	55.45	51.85	47.00	74.00	-27.00	peak
3	9455.871	12.45	38.81	54.59	51.67	48.34	74.00	-25.66	peak
4	10010.910	13.04	38.92	54.09	50.12	47.99	68.20	-20.21	peak
5	11400.000	14.21	39.70	53.62	46.33	46.62	74.00	-27.38	peak
6	pp17100.000	18.47	39.80	54.32	44.46	48.41	68.20	-19.79	peak

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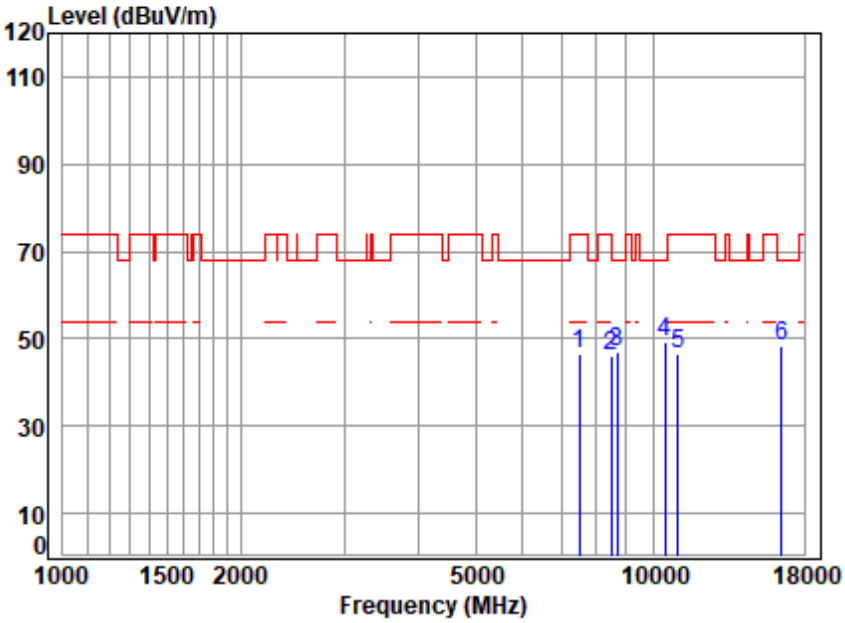
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5500 TX RSE
: 5G WIFI 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	7488.611	11.26	36.80	56.31	54.64	46.39	74.00	-27.61	peak
2	8479.478	12.17	38.34	55.47	51.08	46.12	74.00	-27.88	peak
3	8698.174	12.09	38.59	55.27	51.66	47.07	68.20	-21.13	peak
4	pp10448.470	13.63	39.05	53.83	50.58	49.43	68.20	-18.77	peak
5	11000.000	14.17	39.40	53.50	46.50	46.57	74.00	-27.43	peak
6	16500.000	17.74	38.90	54.15	45.71	48.20	68.20	-20.00	peak

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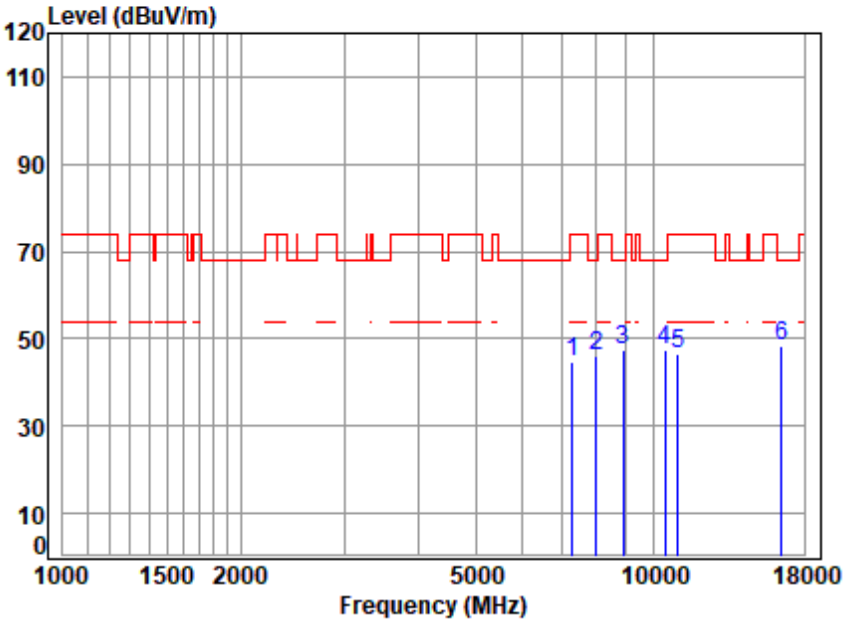
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5500 TX RSE
: 5G WIFI 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	7285.470	11.51	36.67	56.47	53.21	44.92	74.00	-29.08	peak
2	8017.507	11.54	37.80	55.88	52.83	46.29	68.20	-21.91	peak
3	8904.353	12.22	38.59	55.09	51.65	47.37	68.20	-20.83	peak
4	10469.780	13.63	39.07	53.82	48.54	47.42	68.20	-20.78	peak
5	11000.000	14.17	39.40	53.50	46.41	46.48	74.00	-27.52	peak
6	pp16500.000	17.74	38.90	54.15	45.71	48.20	68.20	-20.00	peak

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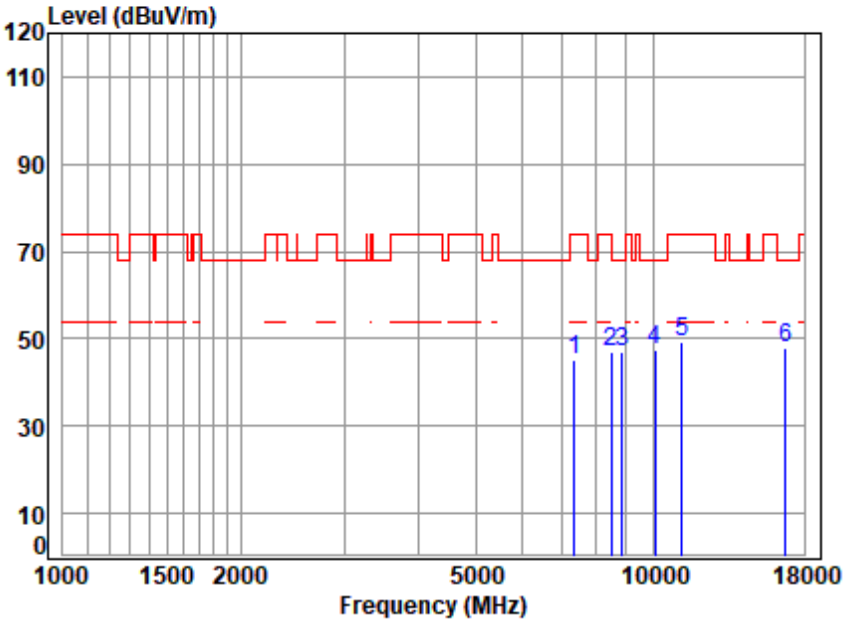
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5580 TX RSE
: 5G WIFI 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	7352.564	11.50	36.79	56.42	53.34	45.21	74.00	-28.79	peak
2	8488.119	12.23	38.32	55.46	51.91	47.00	74.00	-27.00	peak
3	8868.147	12.23	38.54	55.12	51.50	47.15	68.20	-21.05	peak
4	10062.030	13.17	39.02	54.06	49.27	47.40	68.20	-20.80	peak
5	11160.000	14.72	39.56	53.55	48.54	49.27	74.00	-24.73	peak
6	pp16740.000	17.54	39.48	54.22	44.95	47.75	68.20	-20.45	peak

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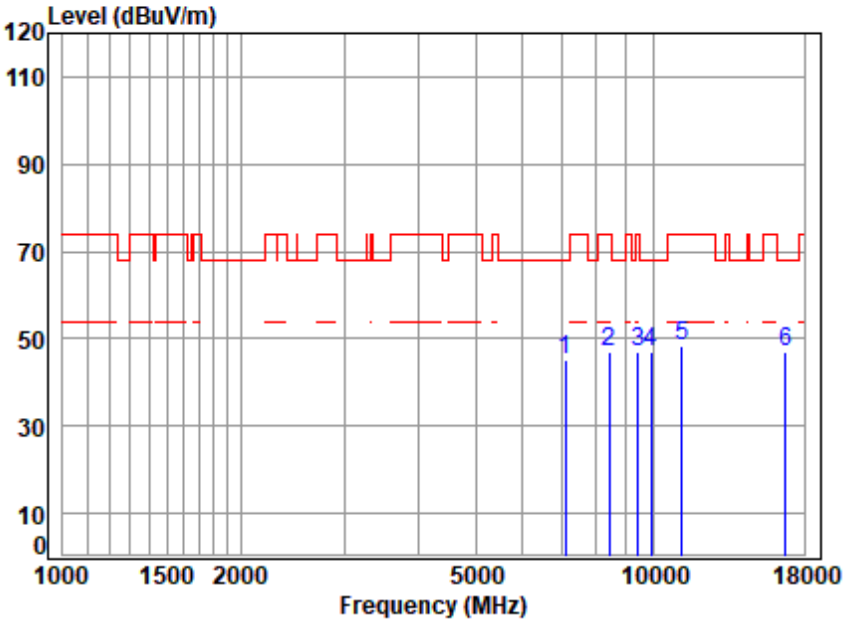
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5580 TX RSE
: 5G WIFI 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	53.50	45.23	68.20	-22.97	peak
2	8419.234	11.76	38.52	55.52	52.12	46.88	74.00	-27.12	peak
3	9407.836	12.32	38.80	54.63	50.47	46.96	74.00	-27.04	peak
4 pp	9919.560	12.84	38.90	54.17	49.51	47.08	68.20	-21.12	peak
5	11160.000	14.72	39.56	53.55	47.68	48.41	74.00	-25.59	peak
6	16740.000	17.54	39.48	54.22	44.10	46.90	68.20	-21.30	peak

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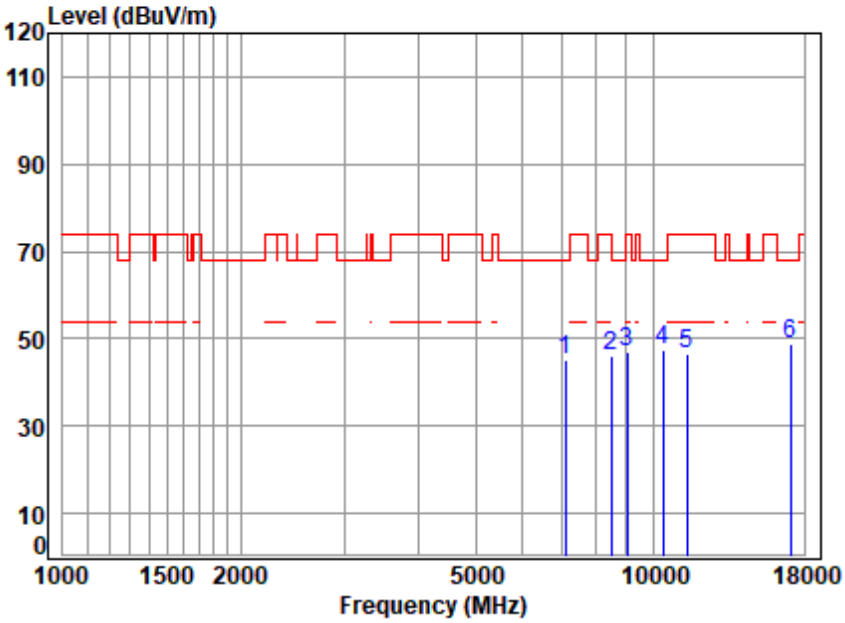
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5700 TX RSE
: 5G WIFI 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	53.29	45.02	68.20	-23.18	peak
2	8479.478	12.17	38.34	55.47	51.21	46.25	74.00	-27.75	peak
3	9041.442	12.14	38.60	54.96	51.10	46.88	74.00	-27.12	peak
4	10395.390	13.62	39.00	53.86	48.73	47.49	68.20	-20.71	peak
5	11400.000	14.21	39.70	53.62	46.10	46.39	74.00	-27.61	peak
6	pp17100.000	18.47	39.80	54.32	44.94	48.89	68.20	-19.31	peak

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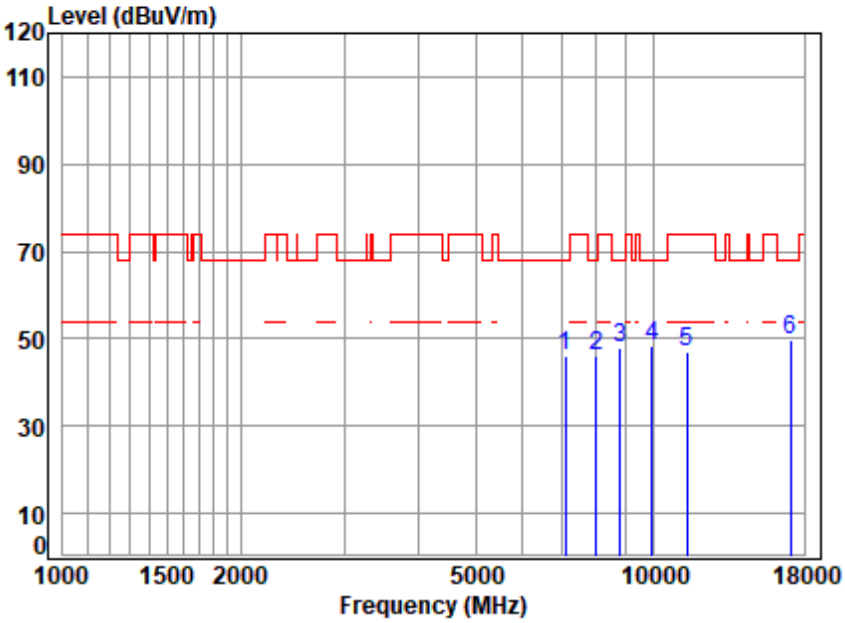

Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5700 TX RSE
: 5G WIFI 11AC20

	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	54.34	46.07	68.20	-22.13	peak
2	7993.045	11.56	37.79	55.91	52.72	46.16	68.20	-22.04	peak
3	8787.224	12.23	38.50	55.19	52.59	48.13	68.20	-20.07	peak
4	9939.788	12.88	38.90	54.15	50.56	48.19	68.20	-20.01	peak
5	11400.000	14.21	39.70	53.62	46.73	47.02	74.00	-26.98	peak
6	pp17100.000	18.47	39.80	54.32	45.68	49.63	68.20	-18.57	peak

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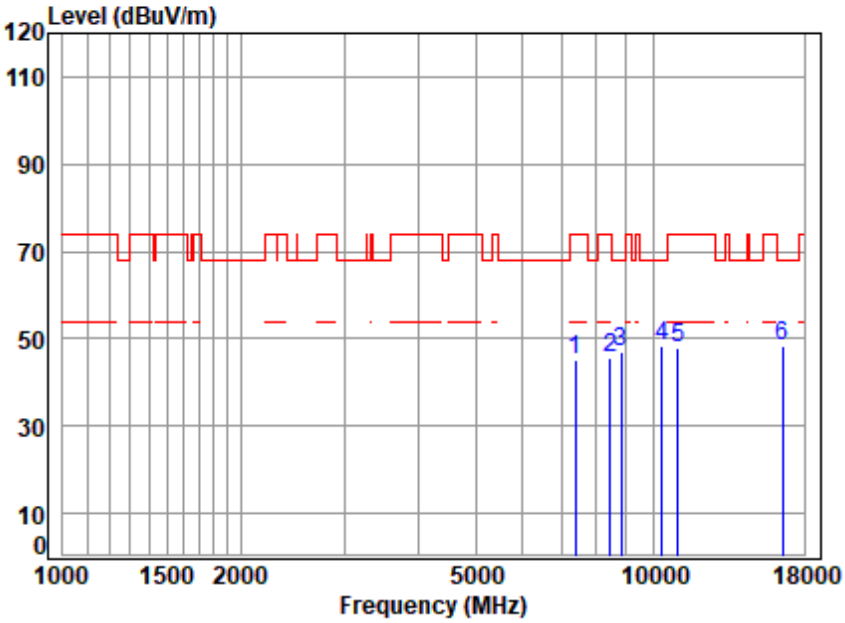
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5510 TX RSE
: 5G WIFI 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	7382.582	11.50	36.73	56.39	53.35	45.19	74.00	-28.81	peak
2	8453.606	11.99	38.39	55.49	50.82	45.71	74.00	-28.29	peak
3	8814.115	12.25	38.50	55.17	51.58	47.16	68.20	-21.04	peak
4	pp10363.680	13.61	39.00	53.88	49.43	48.16	68.20	-20.04	peak
5	11020.000	14.27	39.42	53.51	47.70	47.88	74.00	-26.12	peak
6	16530.000	17.71	38.99	54.16	45.60	48.14	68.20	-20.06	peak

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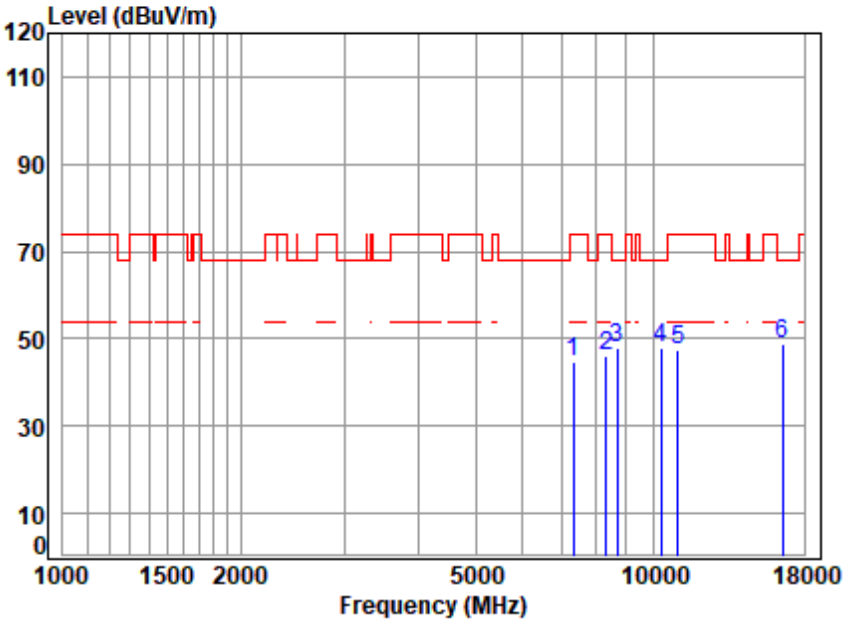
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5510 TX RSE
: 5G WIFI 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	7330.131	11.51	36.76	56.44	53.08	44.91	74.00	-29.09	peak
2	8308.486	11.75	38.04	55.62	52.11	46.28	74.00	-27.72	peak
3	8671.635	12.05	38.49	55.30	52.46	47.70	68.20	-20.50	peak
4	10311.030	13.58	39.00	53.91	49.31	47.98	68.20	-20.22	peak
5	11020.000	14.27	39.42	53.51	47.17	47.35	74.00	-26.65	peak
6	pp16530.000	17.71	38.99	54.16	46.47	49.01	68.20	-19.19	peak

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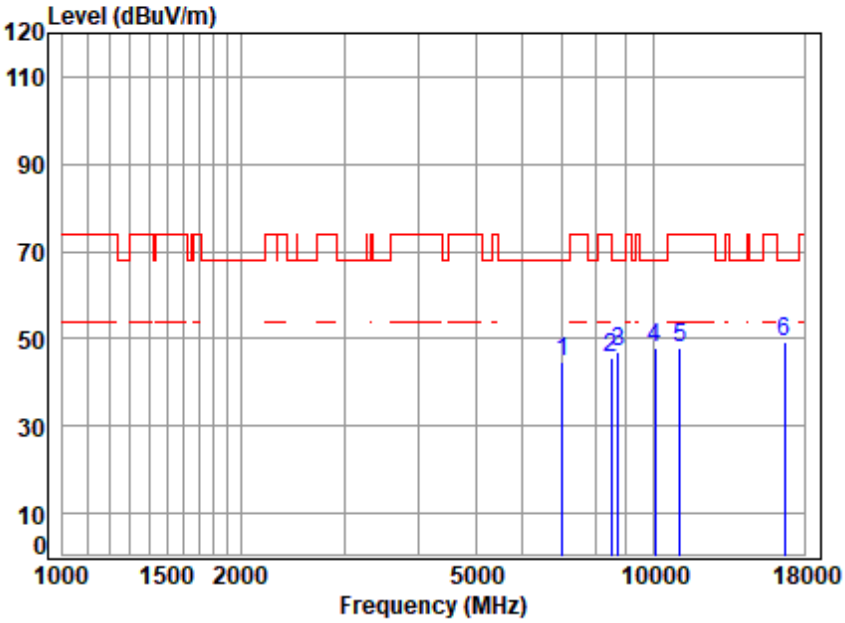
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5550 TX RSE
: 5G WIFI 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	7008.869	11.42	36.22	56.69	53.75	44.70	68.20	-23.50	peak
2	8488.119	12.23	38.32	55.46	50.66	45.75	74.00	-28.25	peak
3	8707.038	12.10	38.59	55.26	51.45	46.88	68.20	-21.32	peak
4	10051.780	13.14	39.00	54.07	49.62	47.69	68.20	-20.51	peak
5	11100.000	14.66	39.50	53.53	47.20	47.83	74.00	-26.17	peak
6	pp16650.000	17.62	39.30	54.19	46.34	49.07	68.20	-19.13	peak

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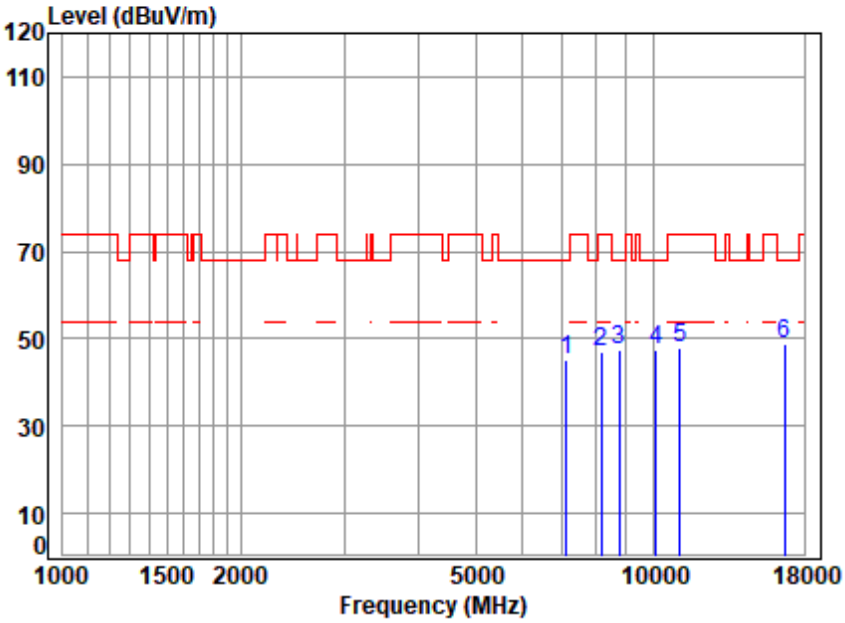
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5550 TX RSE
: 5G WIFI 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	7131.289	11.84	36.46	56.59	53.52	45.23	68.20	-22.97	peak
2	8157.544	11.52	37.92	55.76	53.27	46.95	74.00	-27.05	peak
3	8769.341	12.20	38.50	55.21	51.90	47.39	68.20	-20.81	peak
4	10103.110	13.26	39.10	54.04	49.34	47.66	68.20	-20.54	peak
5	11100.000	14.66	39.50	53.53	47.22	47.85	74.00	-26.15	peak
6	pp16650.000	17.62	39.30	54.19	45.95	48.68	68.20	-19.52	peak

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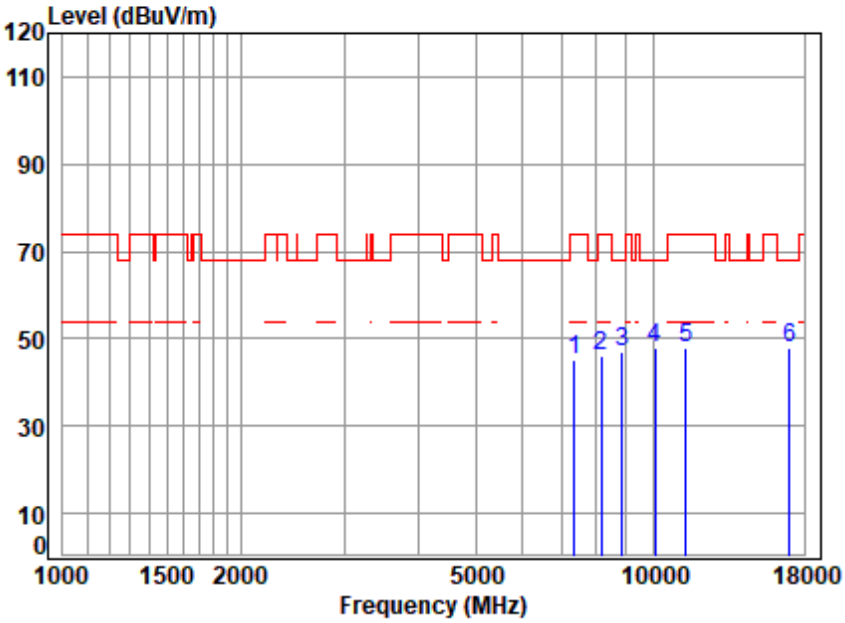
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5670 TX RSE
: 5G WIFI 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	53.52	45.38	74.00	-28.62	peak
2	8165.858	11.53	37.93	55.75	52.48	46.19	74.00	-27.81	peak
3	8868.147	12.23	38.54	55.12	51.15	46.80	68.20	-21.40	peak
4	10062.030	13.17	39.02	54.06	49.75	47.88	68.20	-20.32	peak
5	11340.000	14.47	39.70	53.60	47.51	48.08	74.00	-25.92	peak
6	pp17010.000	18.11	39.71	54.30	44.61	48.13	68.20	-20.07	peak

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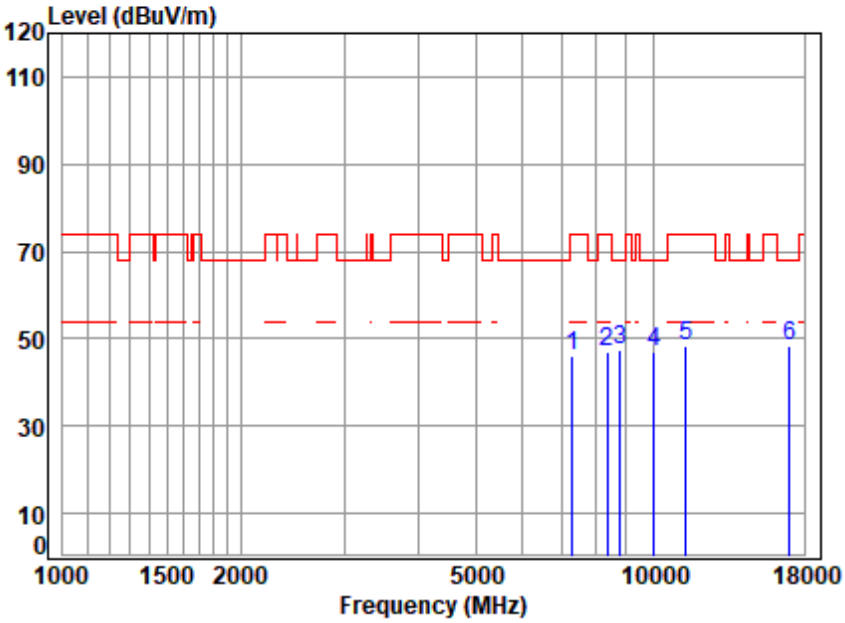
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5670 TX RSE
: 5G WIFI 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	54.33	46.04	74.00	-27.96	peak
2	8342.406	11.70	38.58	55.59	52.28	46.97	74.00	-27.03	peak
3	8778.277	12.22	38.50	55.20	52.07	47.59	68.20	-20.61	peak
4	10031.330	13.09	38.96	54.08	49.06	47.03	68.20	-21.17	peak
5	11340.000	14.47	39.70	53.60	47.64	48.21	74.00	-25.79	peak
6	pp17010.000	18.11	39.71	54.30	44.71	48.23	68.20	-19.97	peak

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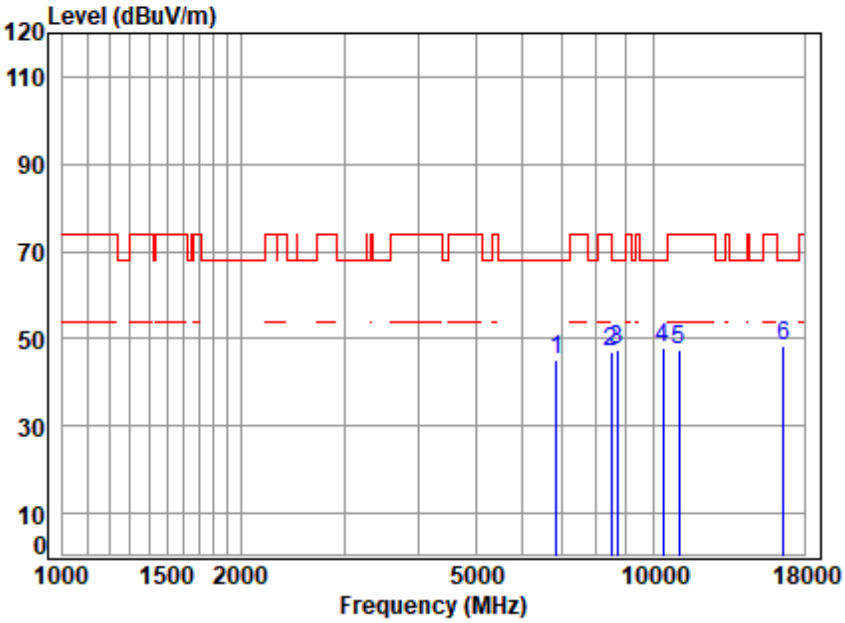
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5530 TX RSE
: 5G WIFI 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	6853.557	11.37	36.01	56.73	54.49	45.14	68.20	-23.06	peak
2	8488.119	12.23	38.32	55.46	51.79	46.88	74.00	-27.12	peak
3	8698.174	12.09	38.59	55.27	51.87	47.28	68.20	-20.92	peak
4	10395.390	13.62	39.00	53.86	49.04	47.80	68.20	-20.40	peak
5	11060.000	14.46	39.46	53.52	47.06	47.46	74.00	-26.54	peak
6	pp16590.000	17.66	39.17	54.18	45.49	48.14	68.20	-20.06	peak

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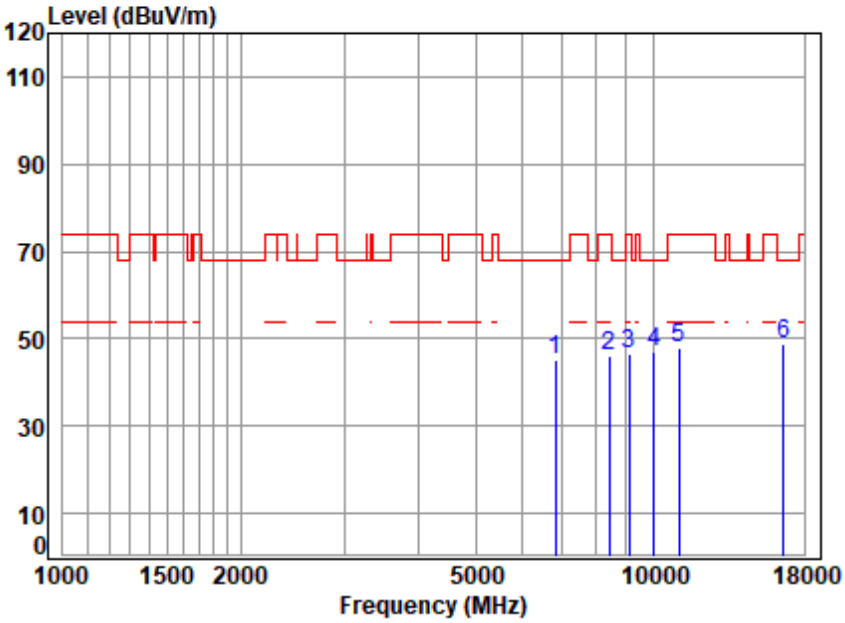
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5530 TX RSE
: 5G WIFI 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	6832.646	11.37	35.97	56.73	54.62	45.23	68.20	-22.97	peak
2	8427.813	11.82	38.49	55.51	51.46	46.26	74.00	-27.74	peak
3	9096.867	12.12	38.60	54.91	50.90	46.71	74.00	-27.29	peak
4	10031.330	13.09	38.96	54.08	49.18	47.15	68.20	-21.05	peak
5	11060.000	14.46	39.46	53.52	47.63	48.03	74.00	-25.97	peak
6	pp16590.000	17.66	39.17	54.18	46.23	48.88	68.20	-19.32	peak

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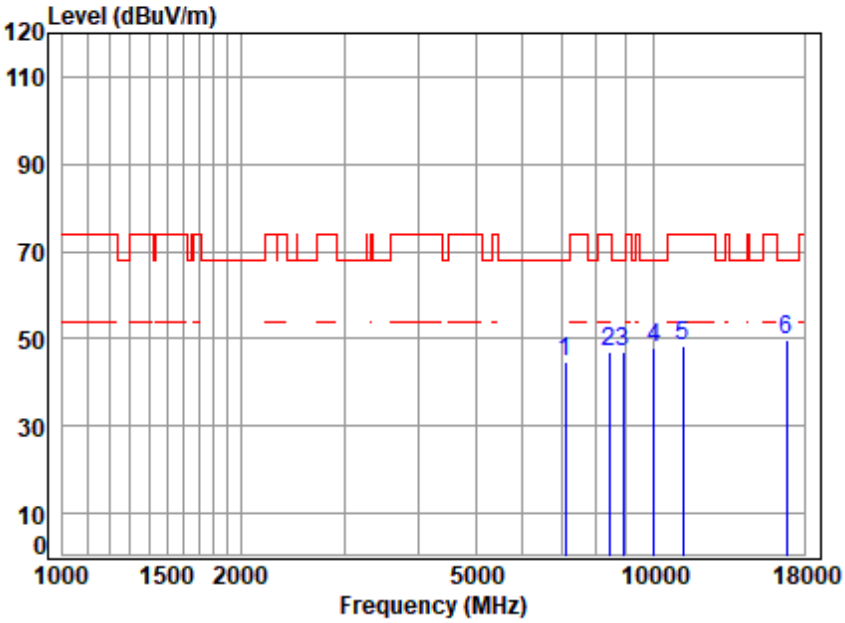
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5610 TX RSE
: 5G WIFI 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	7087.840	11.91	36.38	56.63	53.03	44.69	68.20	-23.51	peak
2	8427.813	11.82	38.49	55.51	52.10	46.90	74.00	-27.10	peak
3	8895.287	12.22	38.59	55.09	51.37	47.09	68.20	-21.11	peak
4	10010.910	13.04	38.92	54.09	50.26	48.13	68.20	-20.07	peak
5	11220.000	14.74	39.62	53.57	47.75	48.54	74.00	-25.46	peak
6	pp16830.000	17.68	39.60	54.25	46.67	49.70	68.20	-18.50	peak

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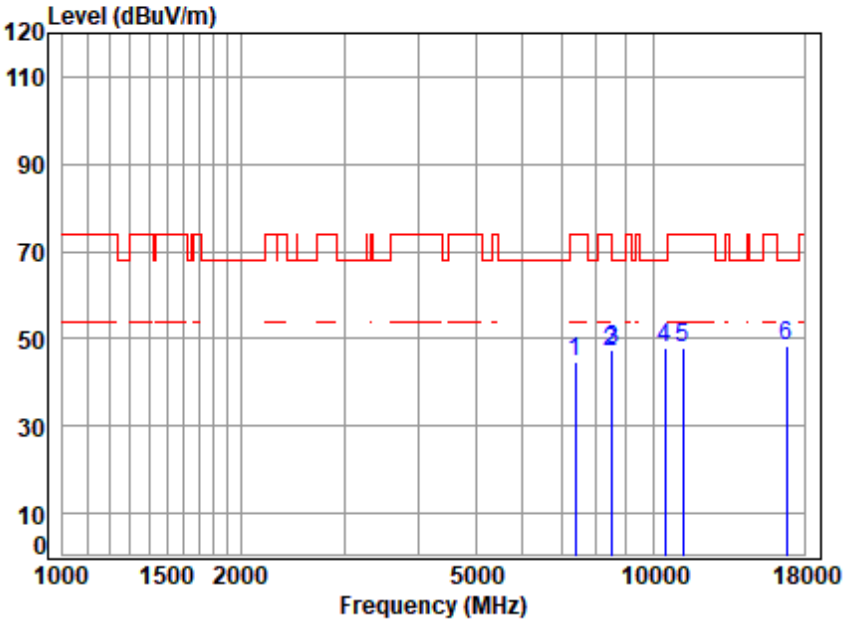
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5610 TX RSE
: 5G WIFI 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	7375.065	11.50	36.75	56.40	52.99	44.84	74.00	-29.16	peak
2	8488.119	12.23	38.32	55.46	51.70	46.79	74.00	-27.21	peak
3	8522.772	12.23	38.30	55.43	52.24	47.34	68.20	-20.86	peak
4	10459.120	13.63	39.06	53.82	49.05	47.92	68.20	-20.28	peak
5	11220.000	14.74	39.62	53.57	46.94	47.73	74.00	-26.27	peak
6	pp16830.000	17.68	39.60	54.25	45.37	48.40	68.20	-19.80	peak

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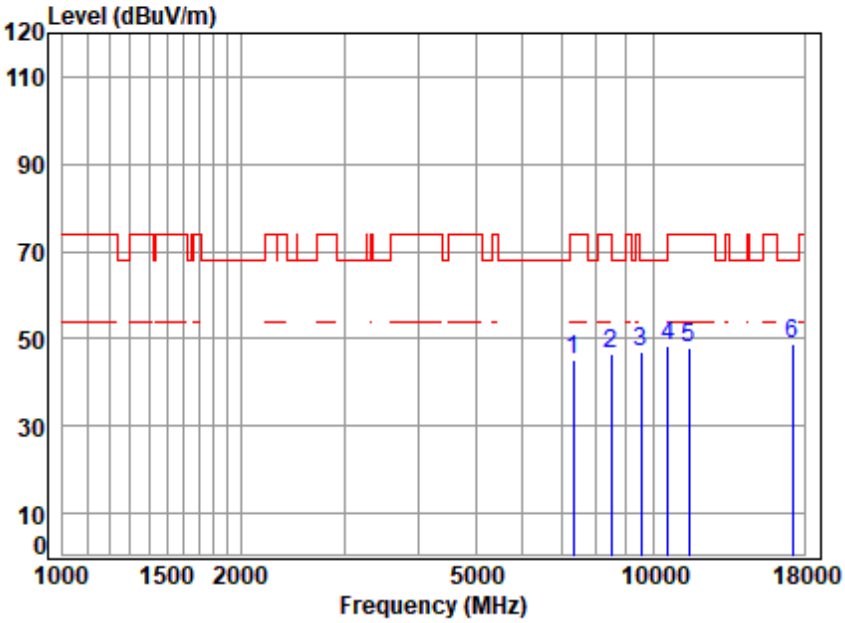
Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5745 TX RSE
: 5G WIFI 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	7315.214	11.51	36.73	56.45	53.55	45.34	74.00	-28.66	peak
2	8496.769	12.29	38.31	55.45	51.55	46.70	74.00	-27.30	peak
3	9523.532	12.53	38.85	54.53	50.30	47.15	68.20	-21.05	peak
4	10587.740	13.60	39.28	53.75	49.18	48.31	68.20	-19.89	peak
5	11490.000	14.97	39.61	53.65	47.18	48.11	74.00	-25.89	peak
6	pp17235.000	17.83	40.01	54.35	45.54	49.03	68.20	-19.17	peak

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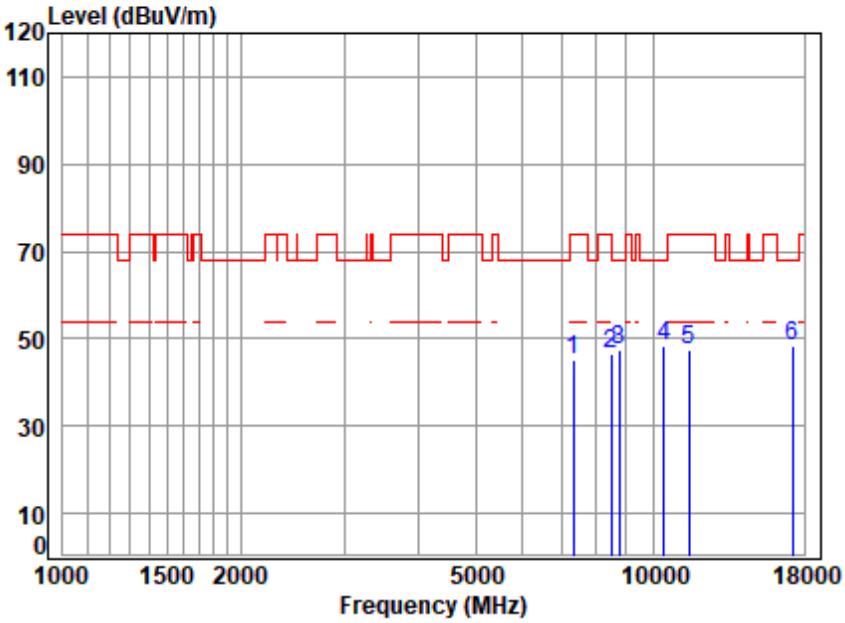
Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5745 TX RSE
: 5G WIFI 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	7315.214	11.51	36.73	56.45	53.34	45.13	74.00	-28.87	peak
2	8479.478	12.17	38.34	55.47	51.70	46.74	74.00	-27.26	peak
3	8742.585	12.16	38.51	55.23	52.02	47.46	68.20	-20.74	peak
4	pp10405.990	13.62	39.01	53.86	49.62	48.39	68.20	-19.81	peak
5	11490.000	14.97	39.61	53.65	46.52	47.45	74.00	-26.55	peak
6	17235.000	17.83	40.01	54.35	44.81	48.30	68.20	-19.90	peak

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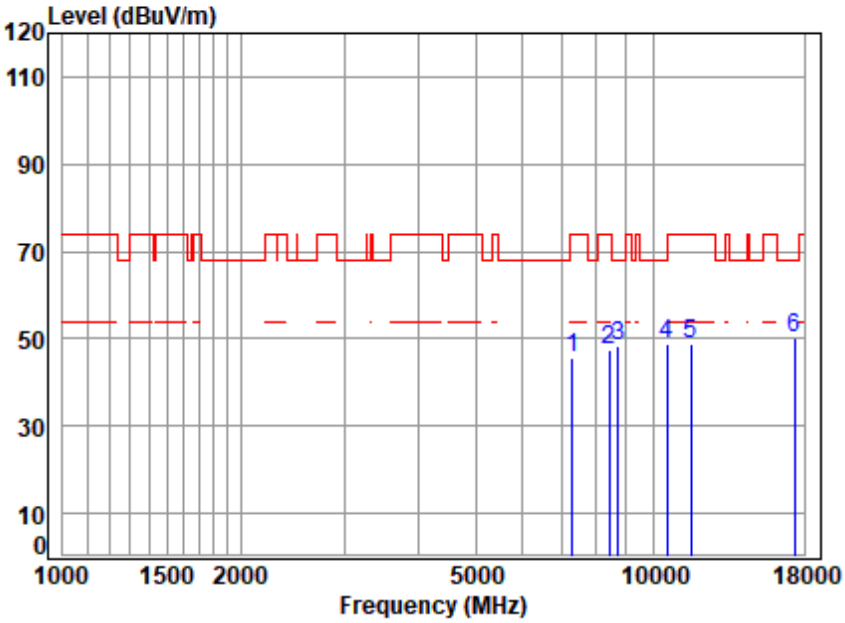
Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5785 TX RSE
: 5G WIFI 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	7285.470	11.51	36.67	56.47	53.99	45.70	74.00	-28.30	peak
2	8419.234	11.76	38.52	55.52	52.76	47.52	74.00	-26.48	peak
3	8707.038	12.10	38.59	55.26	52.85	48.28	68.20	-19.92	peak
4	10544.690	13.62	39.19	53.77	49.88	48.92	68.20	-19.28	peak
5	11570.000	14.78	39.60	53.67	48.11	48.82	74.00	-25.18	peak
6	pp17355.000	18.00	40.31	54.37	46.41	50.35	68.20	-17.85	peak

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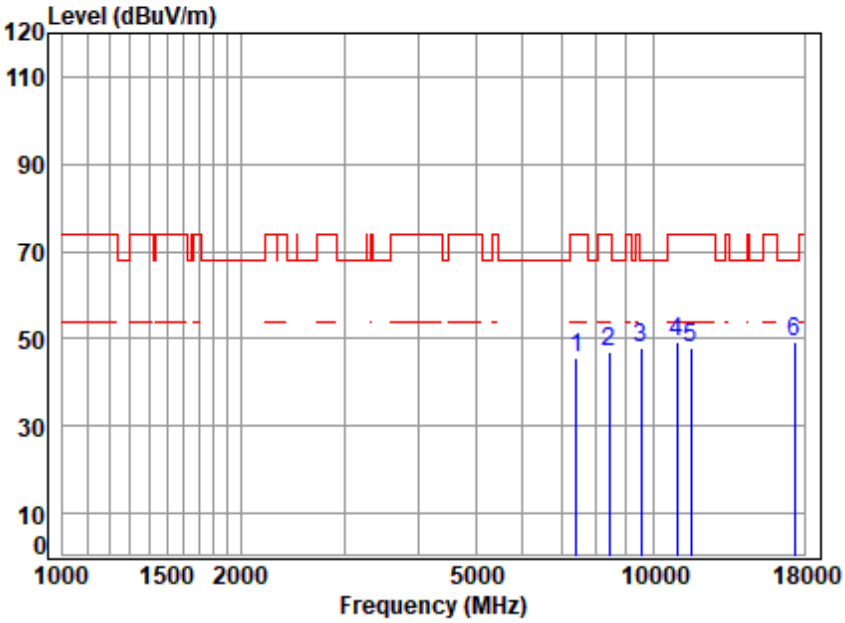
Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5785 TX RSE
: 5G WIFI 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	7420.276	11.45	36.74	56.36	53.91	45.74	74.00	-28.26	peak
2	8427.813	11.82	38.49	55.51	52.31	47.11	74.00	-26.89	peak
3	9533.237	12.52	38.83	54.52	51.08	47.91	68.20	-20.29	peak
4	10949.680	14.06	39.35	53.53	49.21	49.09	74.00	-24.91	peak
5	11570.000	14.78	39.60	53.67	47.37	48.08	74.00	-25.92	peak
6	pp17355.000	18.00	40.31	54.37	45.37	49.31	68.20	-18.89	peak

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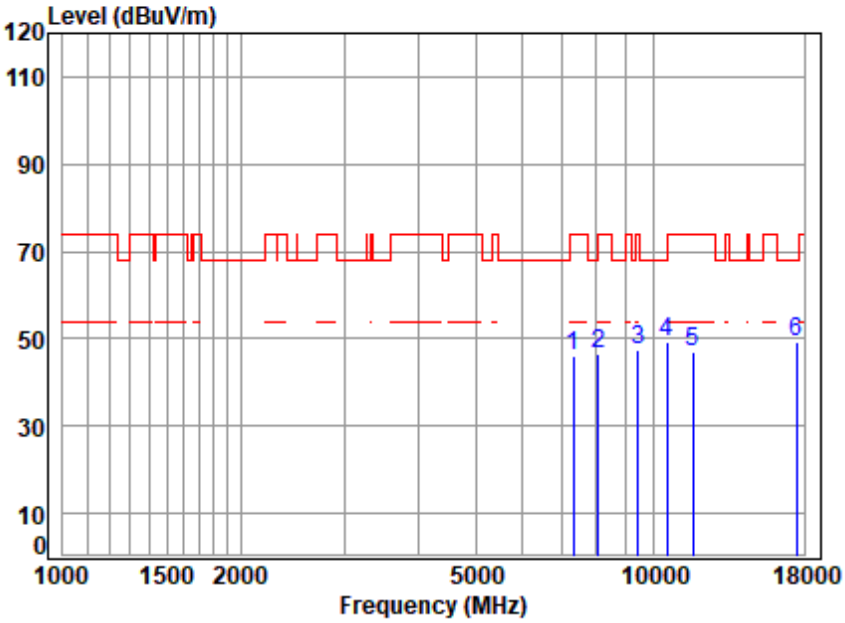
Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5825 TX RSE
: 5G WIFI 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	7315.214	11.51	36.73	56.45	54.19	45.98	74.00	-28.02	peak
2	8066.655	11.49	37.80	55.84	53.14	46.59	74.00	-27.41	peak
3	9407.836	12.32	38.80	54.63	51.14	47.63	74.00	-26.37	peak
4	pp10555.440	13.61	39.21	53.77	50.32	49.37	68.20	-18.83	peak
5	11650.000	14.69	39.55	53.69	46.44	46.99	74.00	-27.01	peak
6	17475.000	18.35	40.78	54.40	44.45	49.18	68.20	-19.02	peak

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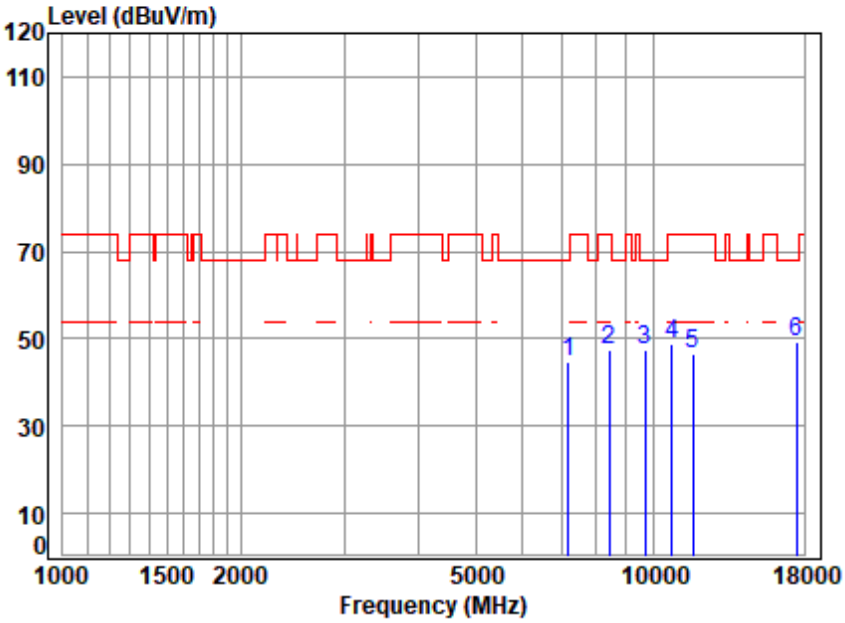
Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5825 TX RSE
: 5G WIFI 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	7167.700	11.67	36.54	56.57	53.25	44.89	68.20	-23.31	peak
2	8427.813	11.82	38.49	55.51	52.83	47.63	74.00	-26.37	peak
3	9699.749	12.70	38.70	54.37	50.59	47.62	68.20	-20.58	peak
4	10739.810	13.90	39.36	53.66	49.02	48.62	74.00	-25.38	peak
5	11650.000	14.69	39.55	53.69	46.13	46.68	74.00	-27.32	peak
6	pp17475.000	18.35	40.78	54.40	44.53	49.26	68.20	-18.94	peak

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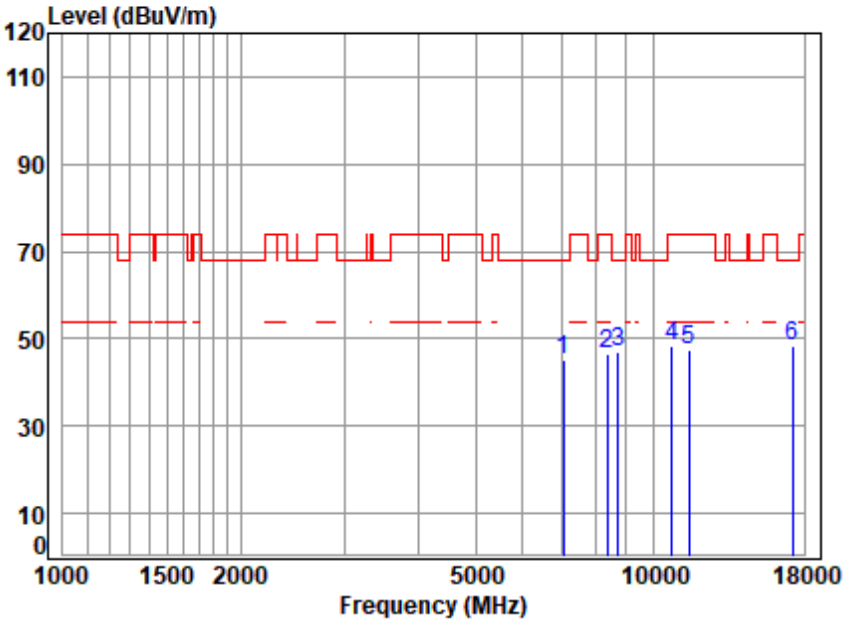
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5745 TX RSE
: 5G WIFI 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	7051.834	11.69	36.30	56.66	53.76	45.09	68.20	-23.11	peak
2	8350.908	11.69	38.70	55.58	51.89	46.70	74.00	-27.30	peak
3	8733.685	12.14	38.53	55.24	51.67	47.10	68.20	-21.10	peak
4	10739.810	13.90	39.36	53.66	48.64	48.24	74.00	-25.76	peak
5	11490.000	14.97	39.61	53.65	46.62	47.55	74.00	-26.45	peak
6	pp17235.000	17.83	40.01	54.35	44.87	48.36	68.20	-19.84	peak

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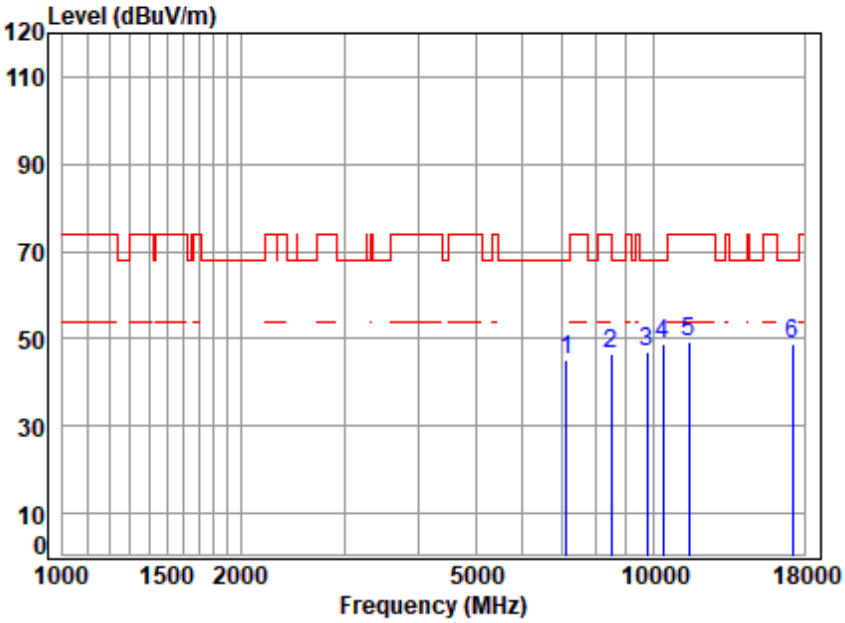
Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5745 TX RSE
: 5G WIFI 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	53.54	45.27	68.20	-22.93	peak
2	8496.769	12.29	38.31	55.45	51.26	46.41	74.00	-27.59	peak
3	9759.210	12.93	38.60	54.32	49.88	47.09	68.20	-21.11	peak
4	pp10374.240	13.61	39.00	53.88	50.05	48.78	68.20	-19.42	peak
5	11490.000	14.97	39.61	53.65	48.41	49.34	74.00	-24.66	peak
6	17235.000	17.83	40.01	54.35	45.17	48.66	68.20	-19.54	peak

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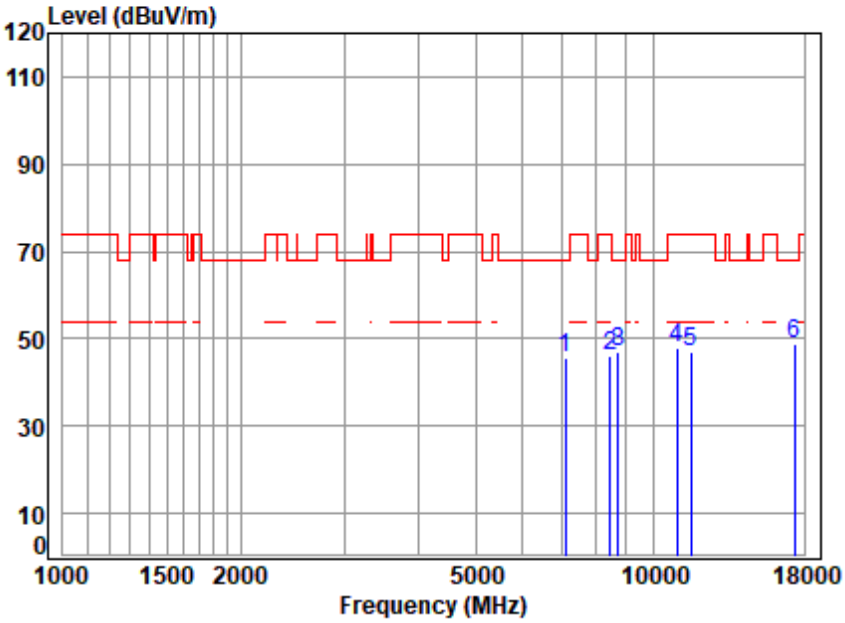
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5785 TX RSE
: 5G WIFI 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	53.65	45.41	68.20	-22.79	peak
2	8462.222	12.05	38.38	55.48	51.34	46.29	74.00	-27.71	peak
3	8733.685	12.14	38.53	55.24	51.76	47.19	68.20	-21.01	peak
4	10949.680	14.06	39.35	53.53	47.89	47.77	74.00	-26.23	peak
5	11570.000	14.78	39.60	53.67	46.41	47.12	74.00	-26.88	peak
6	pp17355.000	18.00	40.31	54.37	44.68	48.62	68.20	-19.58	peak

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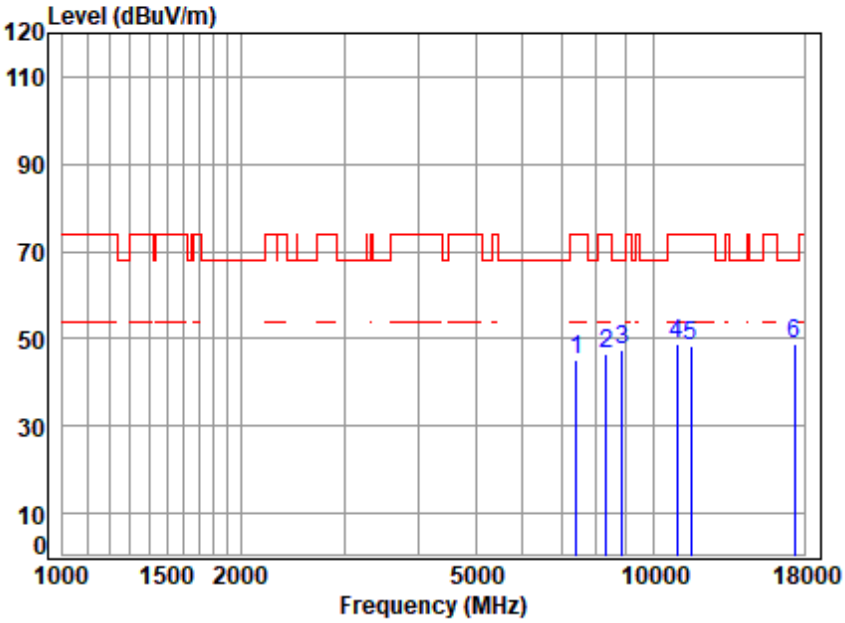
Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5785 TX RSE
: 5G WIFI 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	53.23	45.05	74.00	-28.95	peak
2	8325.429	11.73	38.31	55.61	52.22	46.65	74.00	-27.35	peak
3	8868.147	12.23	38.54	55.12	51.60	47.25	68.20	-20.95	peak
4	10972.000	14.11	39.37	53.52	48.67	48.63	74.00	-25.37	peak
5	11570.000	14.78	39.60	53.67	47.49	48.20	74.00	-25.80	peak
6	pp17355.000	18.00	40.31	54.37	44.83	48.77	68.20	-19.43	peak

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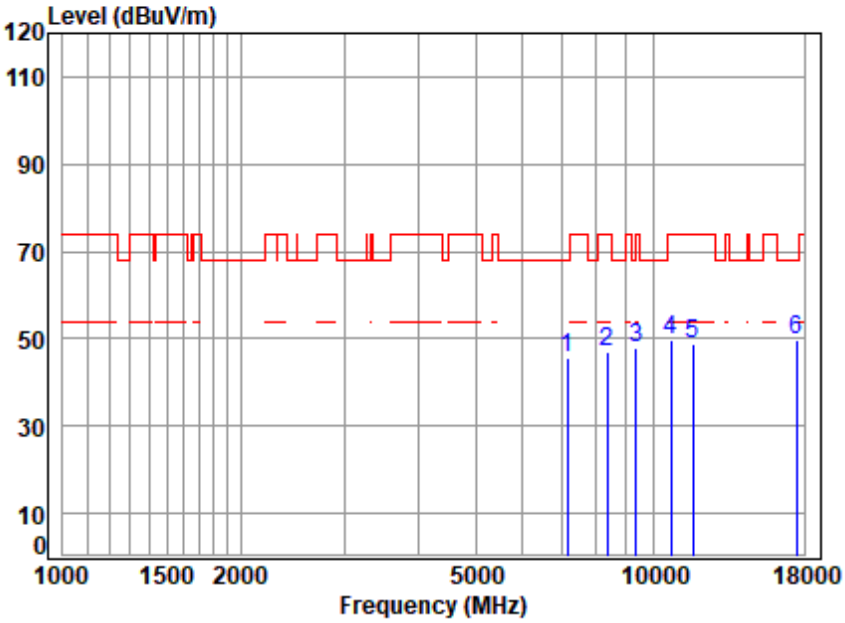
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5825 TX RSE
: 5G WIFI 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	7145.831	11.77	36.49	56.58	53.94	45.62	68.20	-22.58	peak
2	8350.908	11.69	38.70	55.58	52.38	47.19	74.00	-26.81	peak
3	9340.997	12.22	38.80	54.69	51.61	47.94	74.00	-26.06	peak
4	10707.040	14.01	39.39	53.68	49.94	49.66	74.00	-24.34	peak
5	11650.000	14.69	39.55	53.69	48.29	48.84	74.00	-25.16	peak
6	pp17475.000	18.35	40.78	54.40	45.10	49.83	68.20	-18.37	peak

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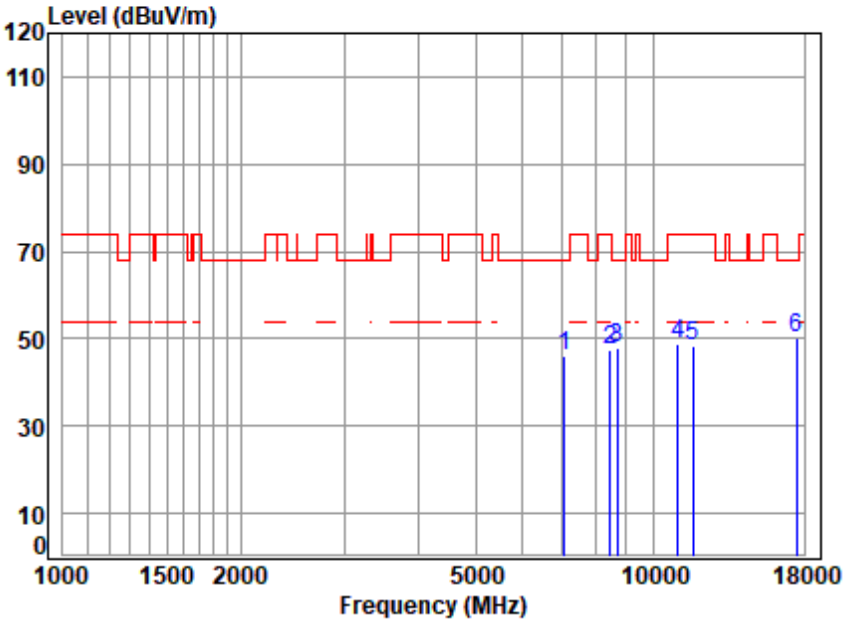
Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5825 TX RSE
: 5G WIFI 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	54.32	45.86	68.20	-22.34	peak
2	8462.222	12.05	38.38	55.48	52.65	47.60	74.00	-26.40	peak
3	8671.635	12.05	38.49	55.30	52.88	48.12	68.20	-20.08	peak
4	10994.380	14.16	39.39	53.50	48.55	48.60	74.00	-25.40	peak
5	11650.000	14.69	39.55	53.69	47.69	48.24	74.00	-25.76	peak
6	pp17475.000	18.35	40.78	54.40	45.38	50.11	68.20	-18.09	peak

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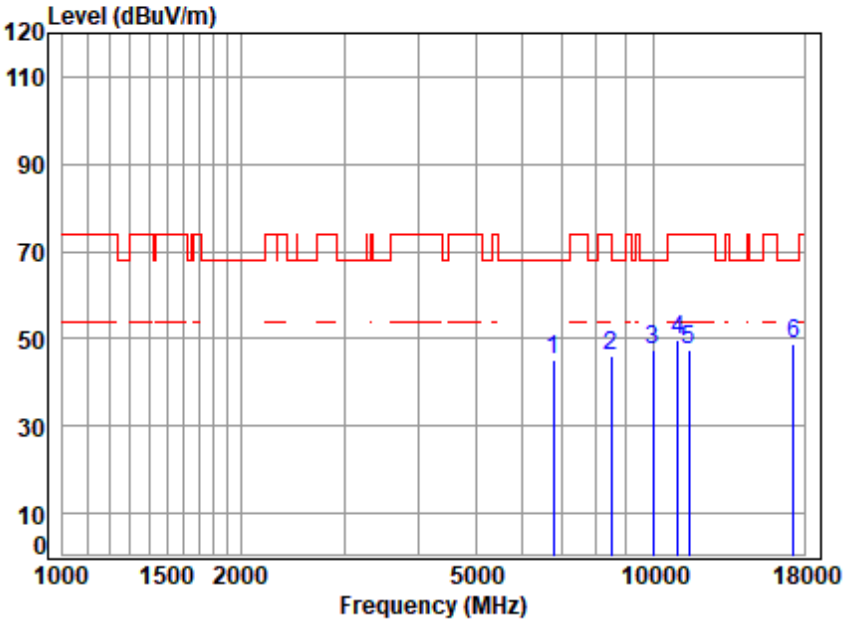
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5755 TX RSE
: 5G WIFI 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	6777.197	11.38	35.81	56.74	54.66	45.11	68.20	-23.09	peak
2	8496.769	12.29	38.31	55.45	51.11	46.26	74.00	-27.74	peak
3	10000.720	13.01	38.90	54.10	49.55	47.36	68.20	-20.84	peak
4	11005.580	14.20	39.41	53.50	49.66	49.77	74.00	-24.23	peak
5	11510.000	15.01	39.60	53.65	46.57	47.53	74.00	-26.47	peak
6	pp17265.000	17.83	40.10	54.35	45.27	48.85	68.20	-19.35	peak

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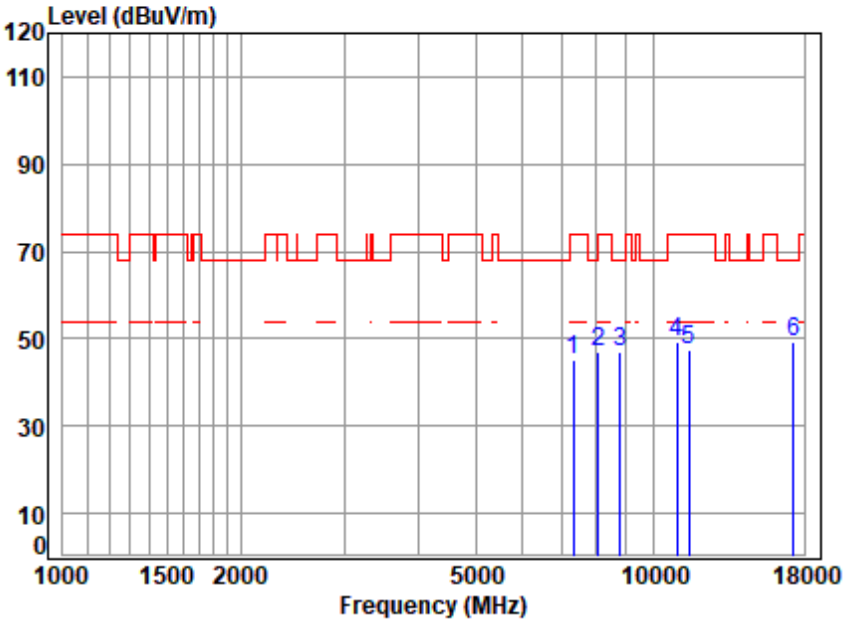
Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5755 TX RSE
: 5G WIFI 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	7330.131	11.51	36.76	56.44	53.53	45.36	74.00	-28.64	peak
2	8074.876	11.48	37.80	55.83	53.54	46.99	74.00	-27.01	peak
3	8787.224	12.23	38.50	55.19	51.60	47.14	68.20	-21.06	peak
4	10972.000	14.11	39.37	53.52	49.35	49.31	74.00	-24.69	peak
5	11510.000	15.01	39.60	53.65	46.59	47.55	74.00	-26.45	peak
6	pp17265.000	17.83	40.10	54.35	45.84	49.42	68.20	-18.78	peak

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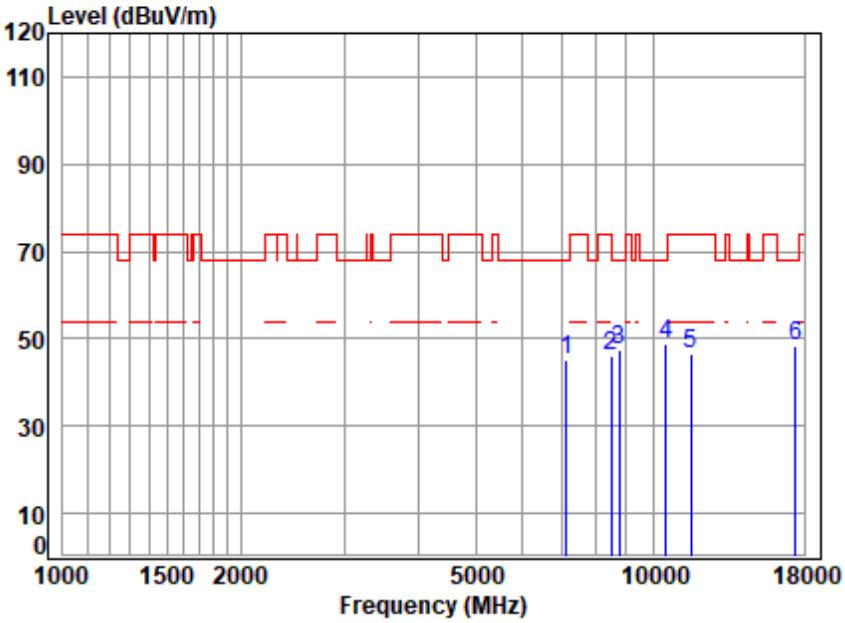
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5795 TX RSE
: 5G WIFI 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	7131.289	11.84	36.46	56.59	53.53	45.24	68.20	-22.96	peak
2	8496.769	12.29	38.31	55.45	50.85	46.00	74.00	-28.00	peak
3	8742.585	12.16	38.51	55.23	52.14	47.58	68.20	-20.62	peak
4	pp10512.520	13.63	39.13	53.79	49.82	48.79	68.20	-19.41	peak
5	11590.000	14.70	39.60	53.68	45.95	46.57	74.00	-27.43	peak
6	17385.000	18.09	40.37	54.38	44.44	48.52	68.20	-19.68	peak

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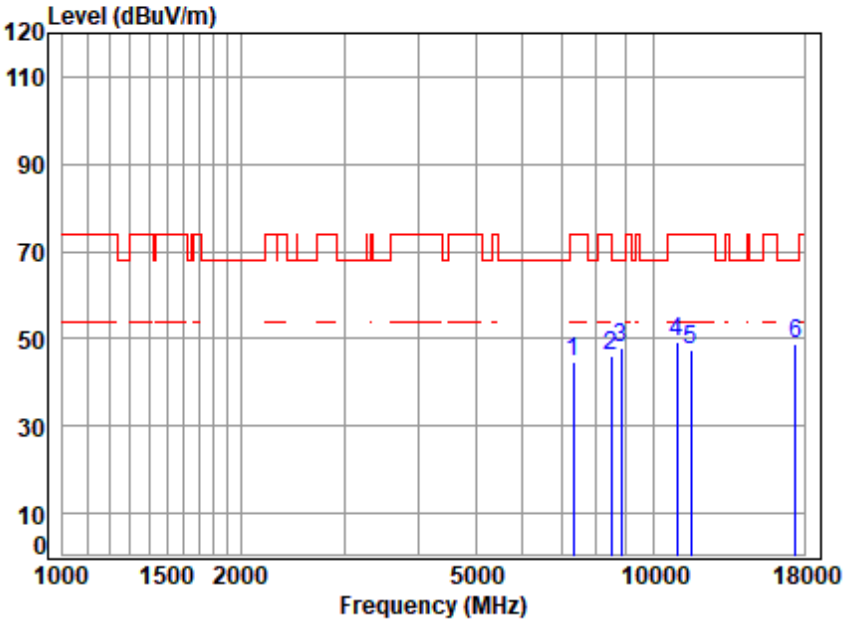
Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5795 TX RSE
: 5G WIFI 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	52.86	44.65	74.00	-29.35	peak
2	8496.769	12.29	38.31	55.45	50.90	46.05	74.00	-27.95	peak
3	8832.090	12.24	38.50	55.15	52.46	48.05	68.20	-20.15	peak
4	10960.830	14.09	39.36	53.52	49.24	49.17	74.00	-24.83	peak
5	11590.000	14.70	39.60	53.68	46.80	47.42	74.00	-26.58	peak
6	pp17385.000	18.09	40.37	54.38	44.70	48.78	68.20	-19.42	peak

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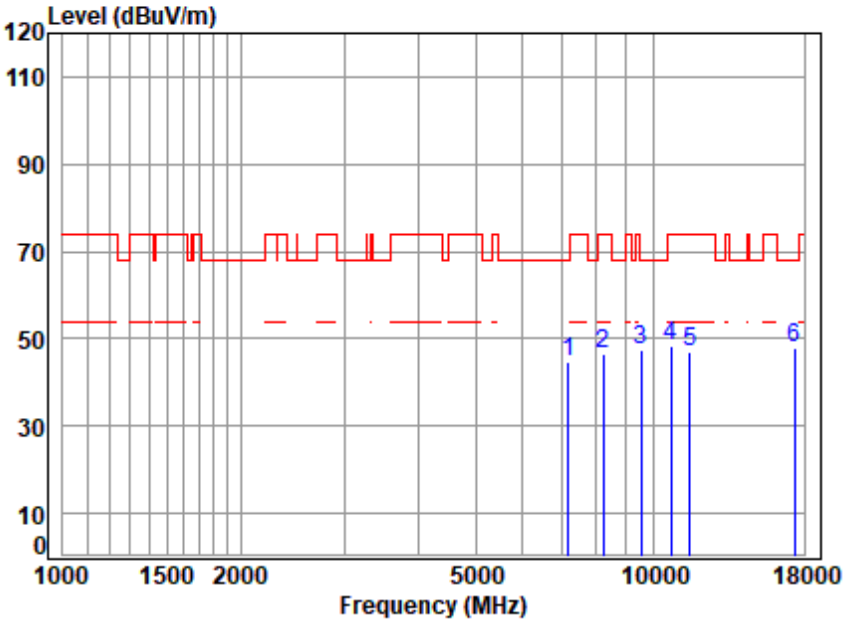
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5775 TX RSE
: 5G WIFI 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	7167.700	11.67	36.54	56.57	53.15	44.79	68.20	-23.41	peak
2	8224.288	11.62	37.90	55.70	52.62	46.44	74.00	-27.56	peak
3	9533.237	12.52	38.83	54.52	50.44	47.27	68.20	-20.93	peak
4	10728.870	13.94	39.37	53.66	48.76	48.41	74.00	-25.59	peak
5	11550.000	14.85	39.60	53.67	46.30	47.08	74.00	-26.92	peak
6	pp17325.000	17.92	40.25	54.36	44.21	48.02	68.20	-20.18	peak

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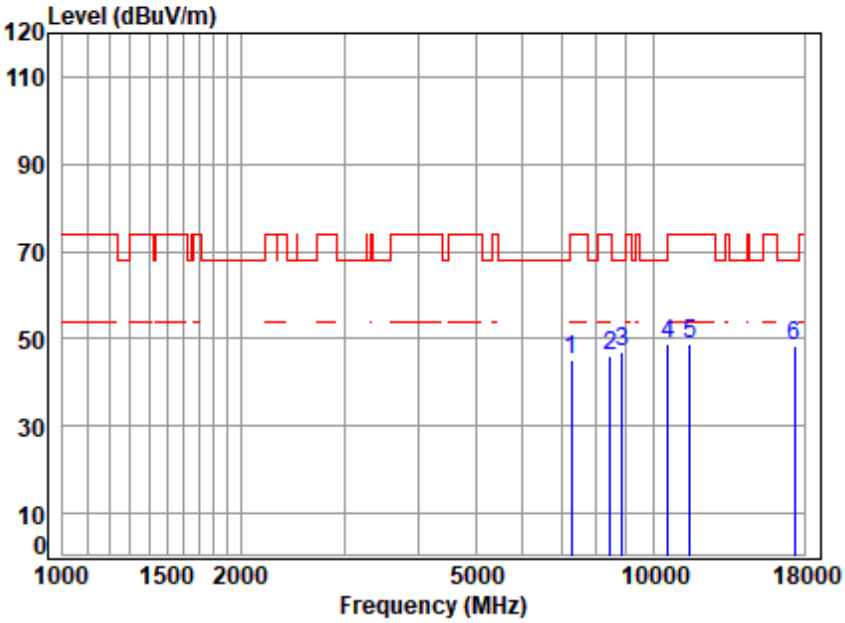
Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5775 TX RSE
: 5G WIFI 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	7255.848	11.51	36.61	56.50	53.35	44.97	74.00	-29.03	peak
2	8445.000	11.94	38.42	55.50	51.36	46.22	74.00	-27.78	peak
3	8859.119	12.23	38.52	55.13	51.48	47.10	68.20	-21.10	peak
4	10609.330	13.63	39.31	53.73	49.63	48.84	74.00	-25.16	peak
5	11550.000	14.85	39.60	53.67	47.86	48.64	74.00	-25.36	peak
6	pp17325.000	17.92	40.25	54.36	44.60	48.41	68.20	-19.79	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

* Frequency in CFR 15.205 Restricted Band.

Note: Frequency in non-Restricted Band:

(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.

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7.5.1 E.U.T. Operation

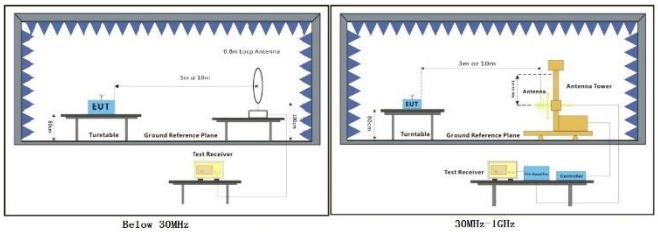
Operating Environment:

Temperature: 23.5 °C Humidity: 51.2 % RH Atmospheric Pressure: 1020 mbar

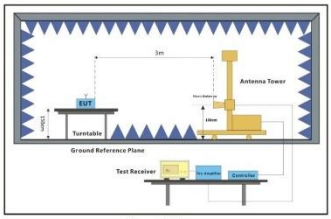
7.5.2 Test Mode Description

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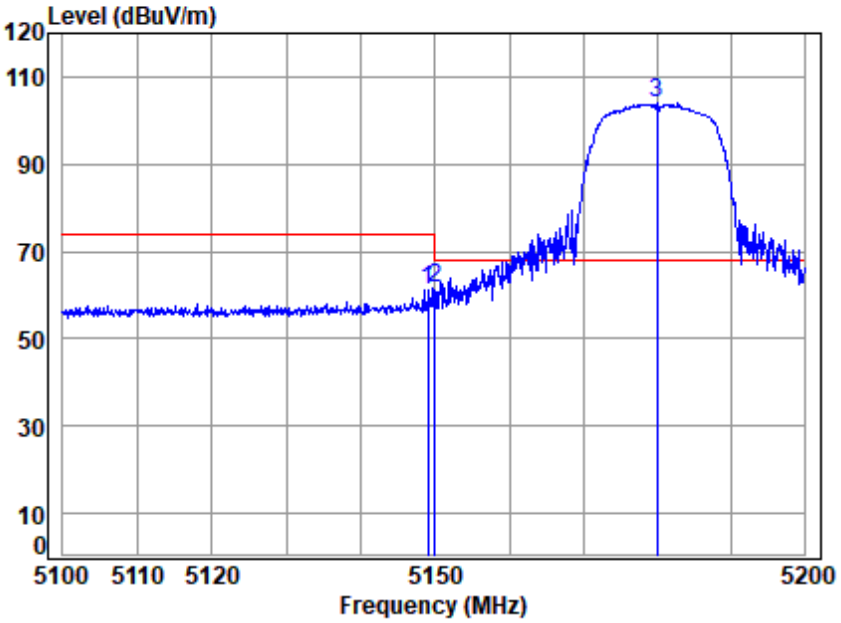
Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
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	5149.057	10.14	32.40	30.84	49.46	61.16	74.00	-12.84	peak
2	5149.980	10.14	32.40	30.84	49.82	61.52	74.00	-12.48	peak
3 pp	5180.000	10.25	32.46	30.83	92.35	104.23	68.20	36.03	peak

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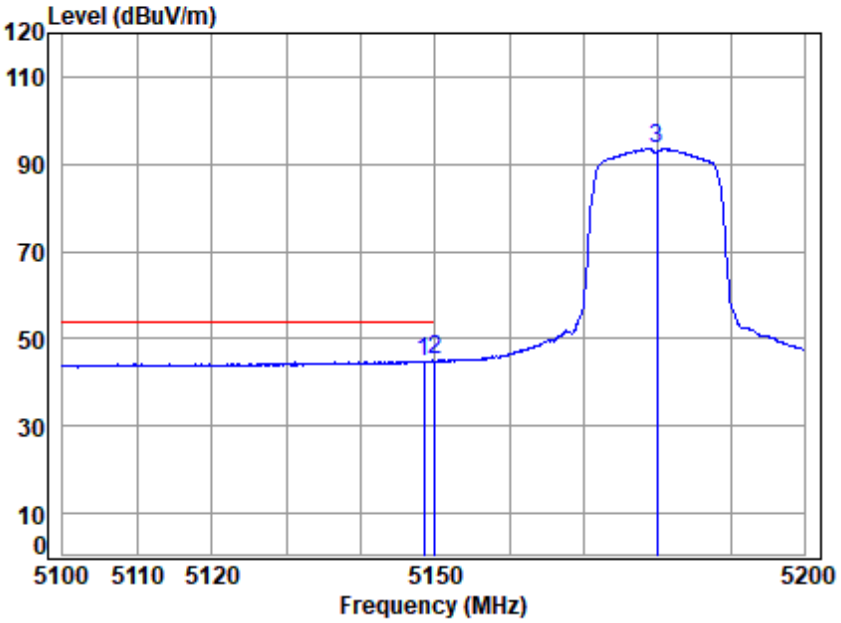

Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5180 Band edge
: 5GWIFI 11A

	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	5148.458	10.13	32.40	30.84	33.15	44.84	54.00	-9.16	Average
2 pp	5149.980	10.14	32.40	30.84	33.29	44.99	54.00	-9.01	Average
3	5180.000	10.25	32.46	30.83	81.77	93.65	------	------	Average

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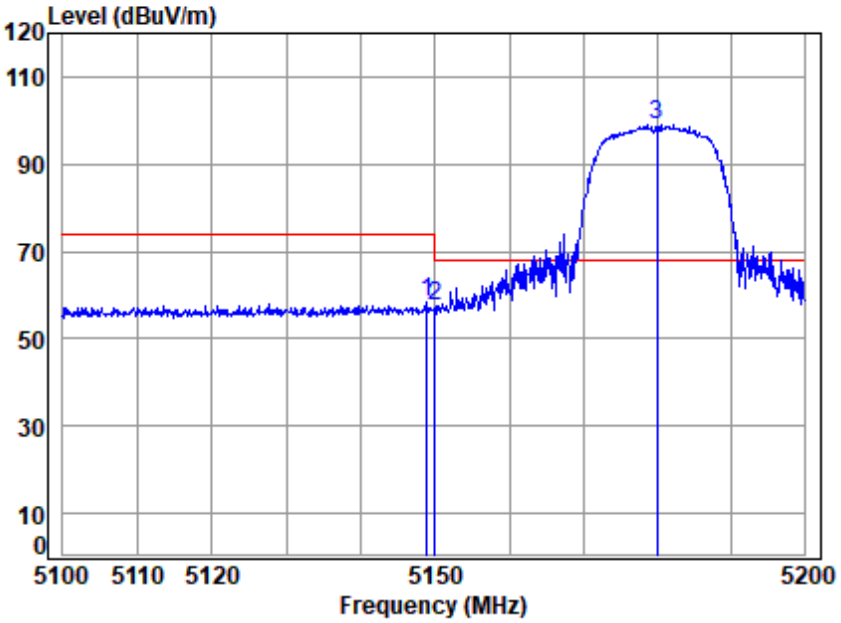

Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5180 Band edge
: 5GWIFI 11A

	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	5148.857	10.14	32.40	30.84	46.64	58.34	74.00	-15.66	peak
2	5149.980	10.14	32.40	30.84	45.77	57.47	74.00	-16.53	peak
3 pp	5180.000	10.25	32.46	30.83	87.21	99.09	68.20	30.89	peak

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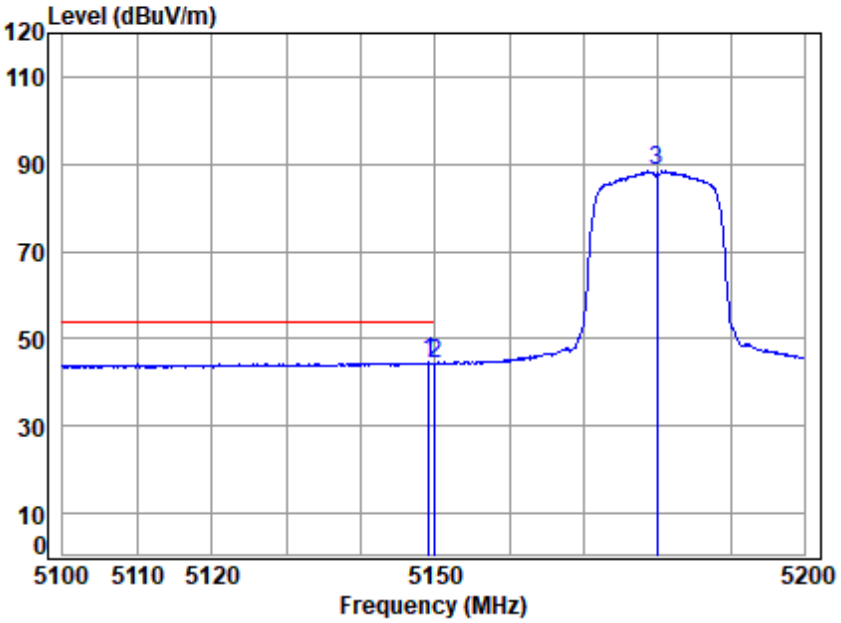
Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
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 pp	5149.157	10.14	32.40	30.84	32.81	44.51	54.00	-9.49	Average
2	5149.980	10.14	32.40	30.84	32.77	44.47	54.00	-9.53	Average
3	5180.000	10.25	32.46	30.83	76.50	88.38	------	------	Average

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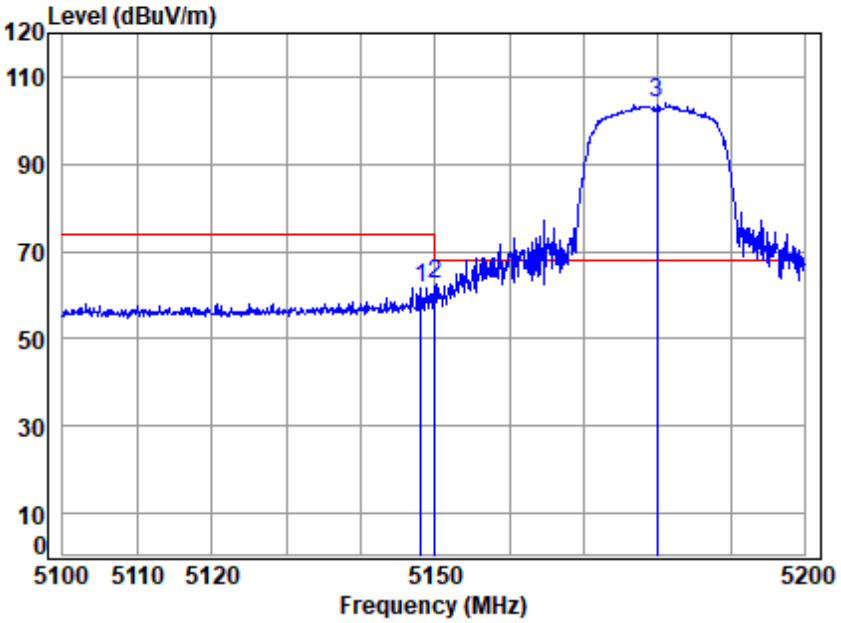
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
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	5148.058	10.13	32.40	30.84	50.07	61.76	74.00	-12.24	peak
2	5149.980	10.14	32.40	30.84	50.75	62.45	74.00	-11.55	peak
3 pp	5180.000	10.25	32.46	30.83	92.13	104.01	68.20	35.81	peak

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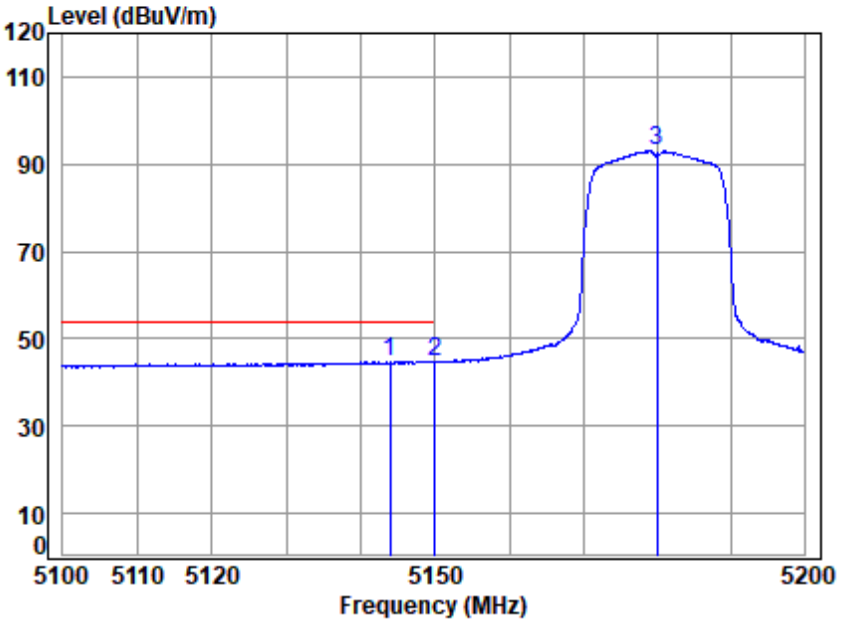
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
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 pp	5143.861	10.12	32.39	30.84	33.14	44.81	54.00	-9.19	Average
2	5149.980	10.14	32.40	30.84	33.04	44.74	54.00	-9.26	Average
3	5180.000	10.25	32.46	30.83	81.12	93.00	------	------	Average

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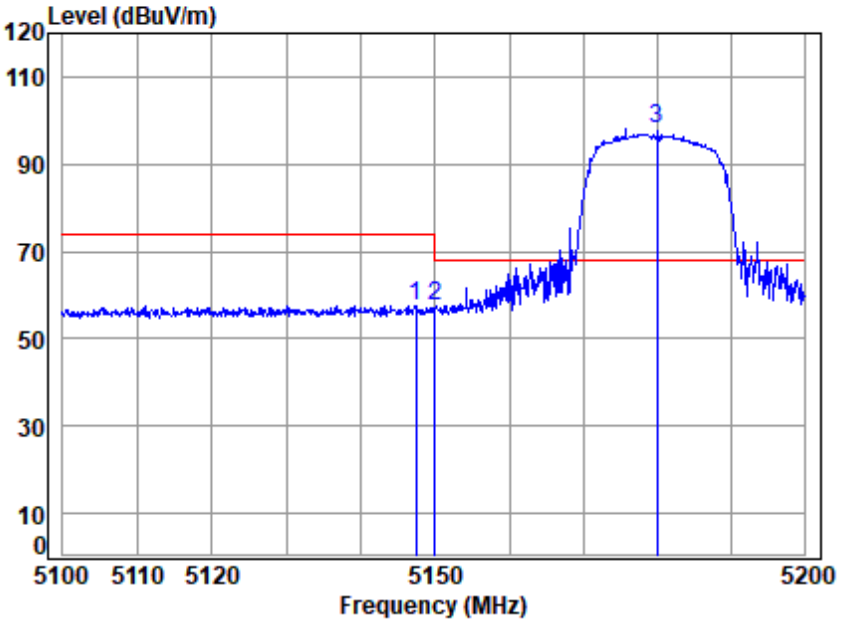
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
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	5147.458	10.13	32.39	30.84	45.96	57.64	74.00	-16.36	peak
2	5149.980	10.14	32.40	30.84	45.67	57.37	74.00	-16.63	peak
3 pp	5180.000	10.25	32.46	30.83	86.00	97.88	68.20	29.68	peak

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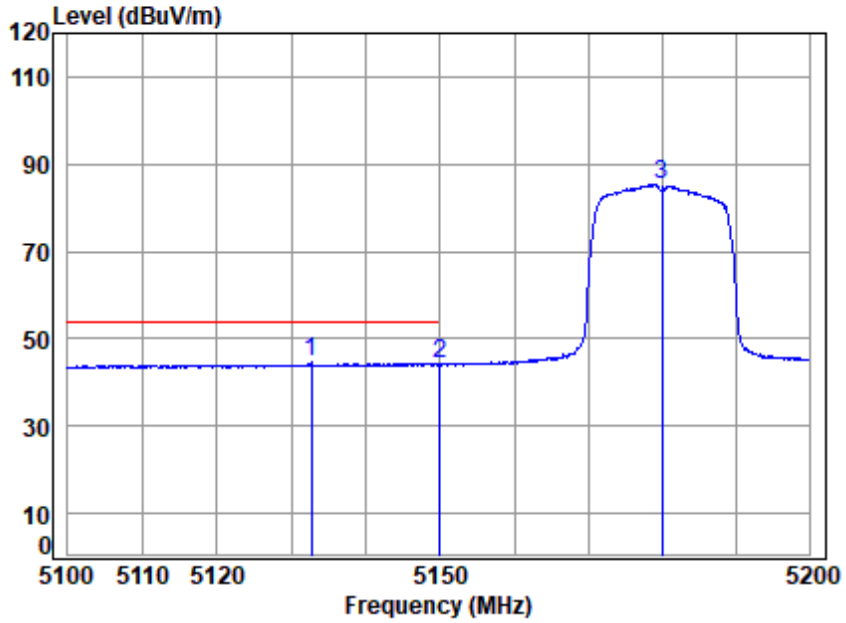
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
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 pp	5132.686	10.07	32.37	30.85	32.91	44.50	54.00	-9.50	Average
2	5149.980	10.14	32.40	30.84	32.51	44.21	54.00	-9.79	Average
3	5180.000	10.25	32.46	30.83	73.51	85.39	------	------	Average

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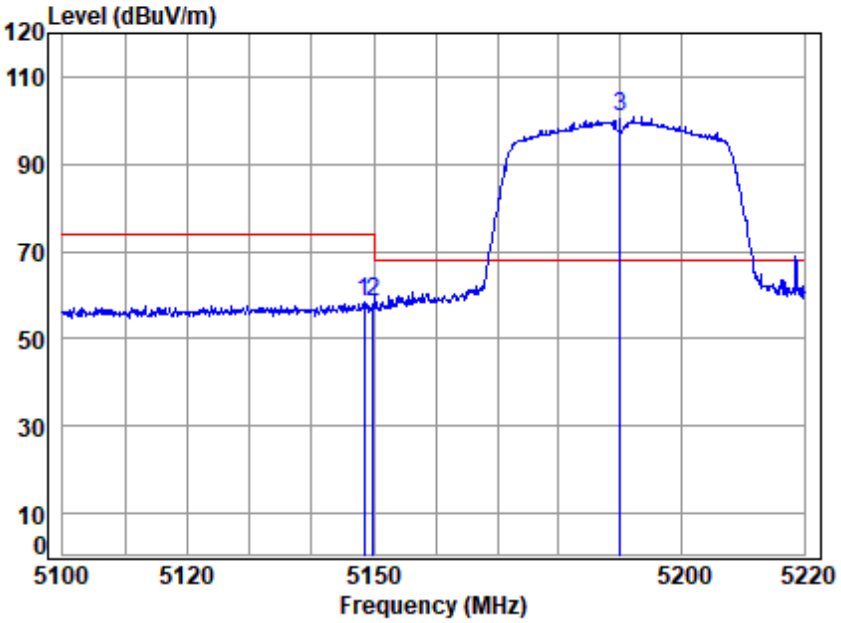
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
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	5148.384	10.13	32.40	30.84	46.57	58.26	74.00	-15.74	peak
2	5149.980	10.14	32.40	30.84	46.83	58.53	74.00	-15.47	peak
3 pp	5190.000	10.29	32.48	30.82	88.80	100.75	68.20	32.55	peak

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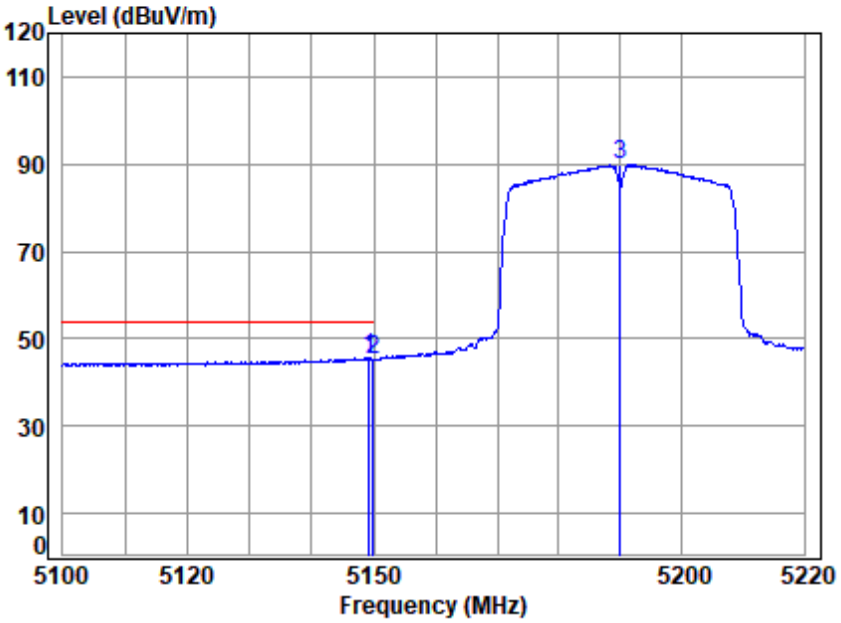
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
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	5149.342	10.14	32.40	30.84	33.80	45.50	54.00	-8.50	Average
2	5149.980	10.14	32.40	30.84	33.68	45.38	54.00	-8.62	Average
3	5190.000	10.29	32.48	30.82	77.89	89.84	------	------	Average

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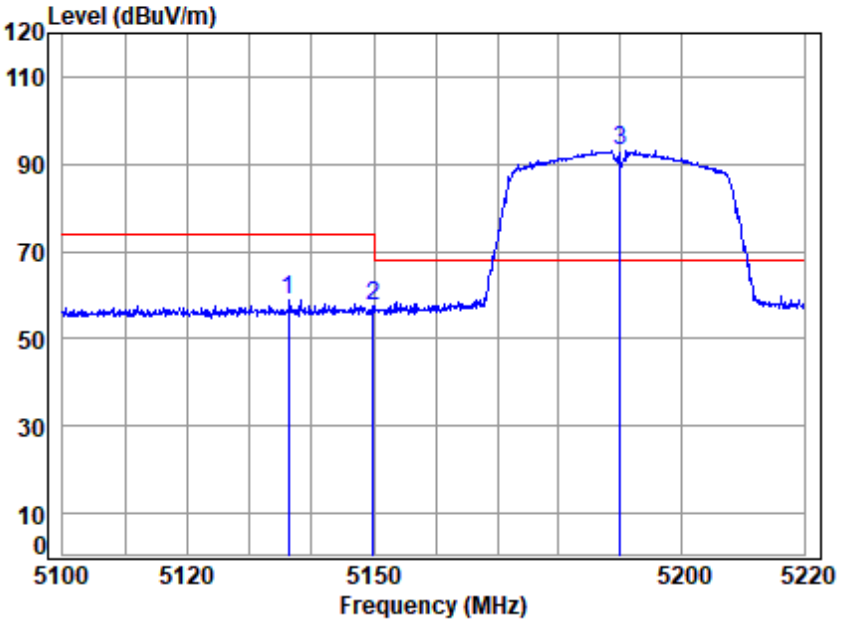
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
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	5136.305	10.09	32.37	30.85	47.21	58.82	74.00	-15.18	peak
2	5149.980	10.14	32.40	30.84	45.84	57.54	74.00	-16.46	peak
3 pp	5190.000	10.29	32.48	30.82	81.35	93.30	68.20	25.10	peak

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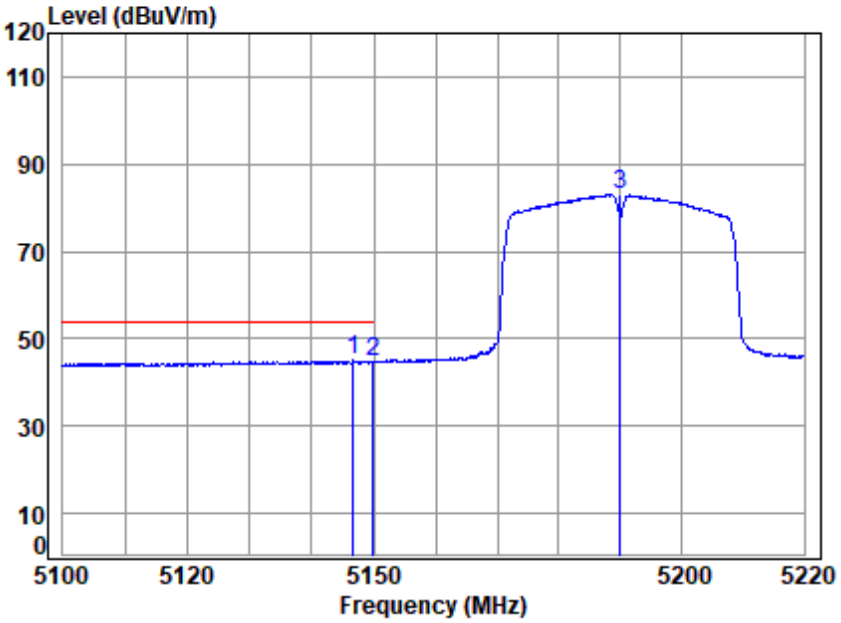
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
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	5146.708	10.13	32.39	30.84	33.28	44.96	54.00	-9.04	Average
2	5149.980	10.14	32.40	30.84	33.21	44.91	54.00	-9.09	Average
3	5190.000	10.29	32.48	30.82	70.95	82.90	------	------	Average

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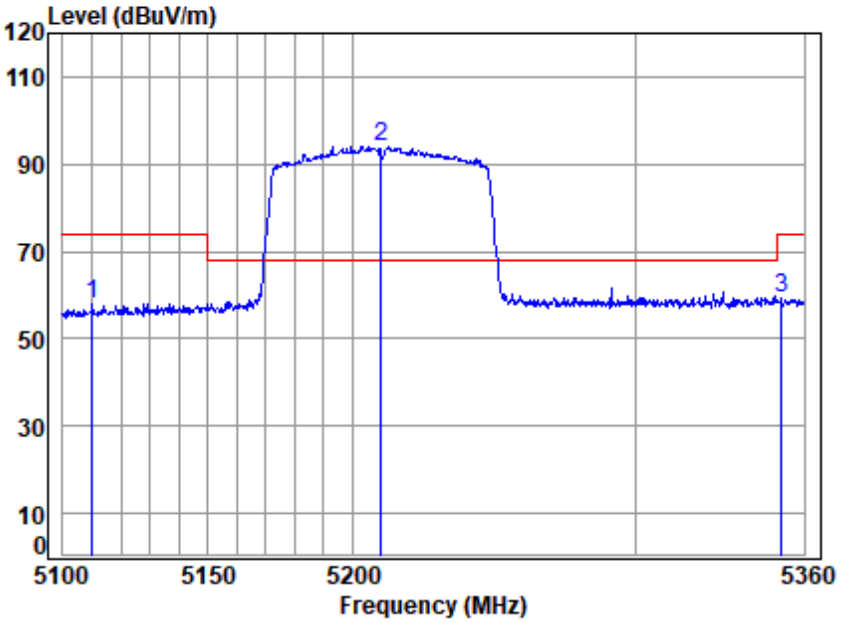
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01497WM
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	5110.154	9.99	32.32	30.86	46.55	58.00	74.00	-16.00	peak
2 pp	5210.000	10.32	32.52	30.82	81.99	94.01	68.20	25.81	peak
3	5351.744	10.46	32.80	30.76	46.89	59.39	74.00	-14.61	peak

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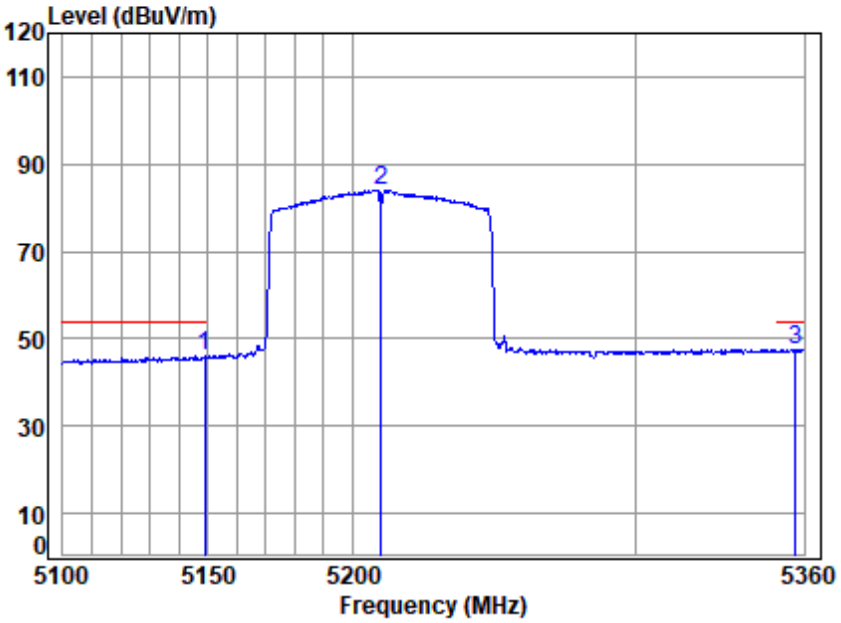
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01497WM
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	5148.922	10.14	32.40	30.84	34.43	46.13	54.00	-7.87	Average
2	5210.000	10.32	32.52	30.82	72.06	84.08	------	------	Average
3 pp	5357.069	10.47	32.80	30.76	35.02	47.53	54.00	-6.47	Average

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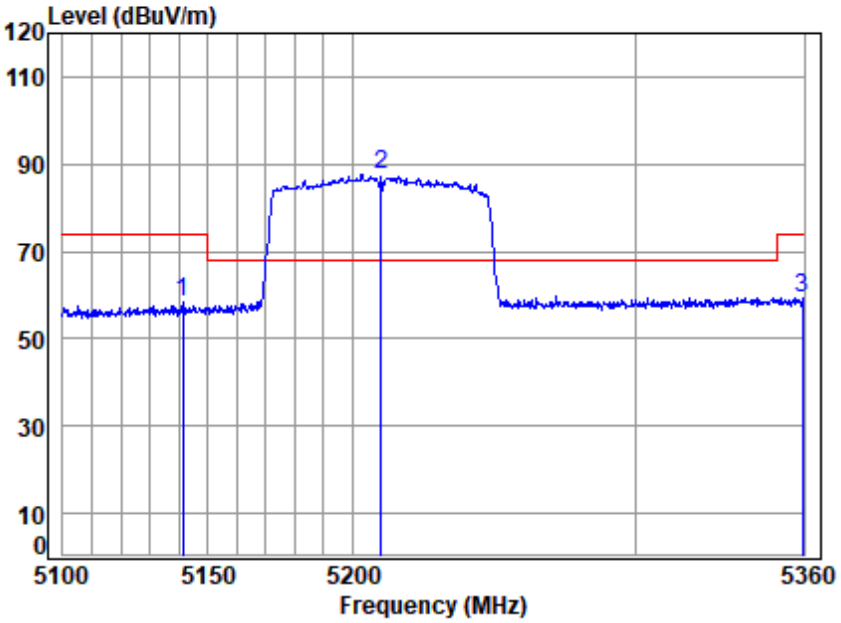
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01497WM
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	5141.248	10.11	32.38	30.84	46.80	58.45	74.00	-15.55	peak
2 pp	5210.000	10.32	32.52	30.82	75.51	87.53	68.20	19.33	peak
3	5359.467	10.48	32.80	30.76	46.76	59.28	74.00	-14.72	peak

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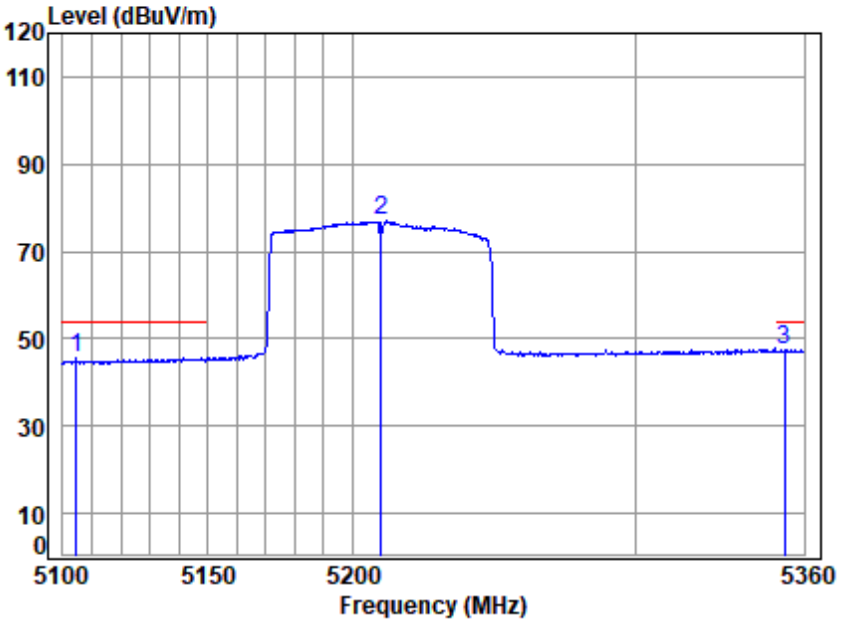
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01497WM
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	5104.567	9.97	32.31	30.86	34.17	45.59	54.00	-8.41	Average
2	5210.000	10.32	32.52	30.82	65.03	77.05	------	------	Average
3 pp	5352.809	10.46	32.80	30.76	35.17	47.67	54.00	-6.33	Average

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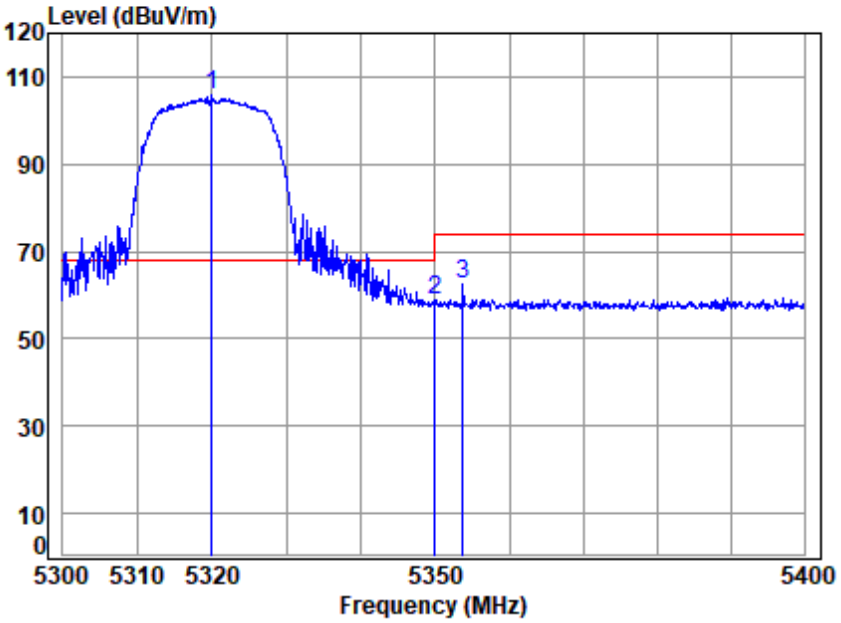
Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
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	93.76	106.08	68.20	37.88	peak
2	5350.020	10.45	32.80	30.76	46.48	58.97	74.00	-15.03	peak
3	5353.768	10.46	32.80	30.76	50.08	62.58	74.00	-11.42	peak

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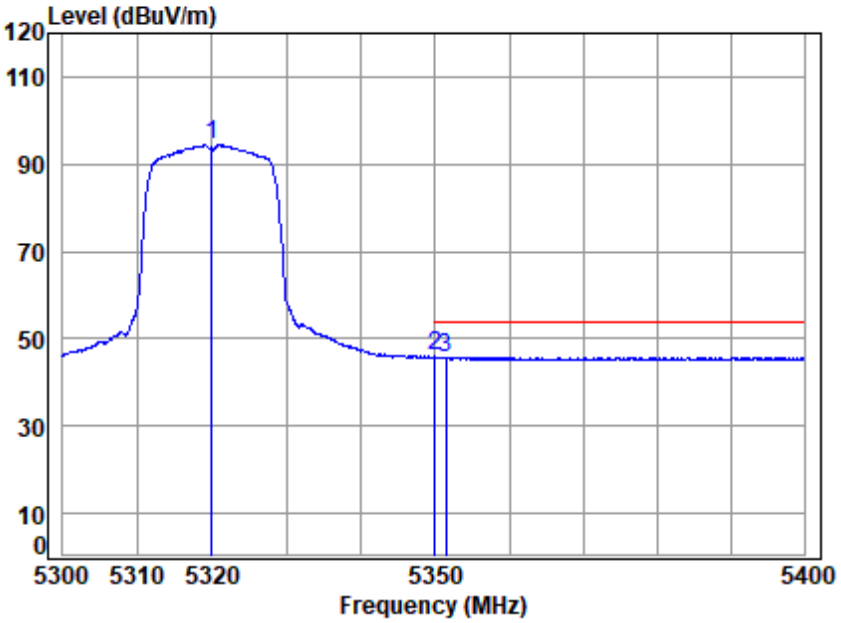
Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
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	82.14	94.46	------	------	Average
2 pp	5350.020	10.45	32.80	30.76	33.40	45.89	54.00	-8.11	Average
3	5351.467	10.45	32.80	30.76	33.30	45.79	54.00	-8.21	Average

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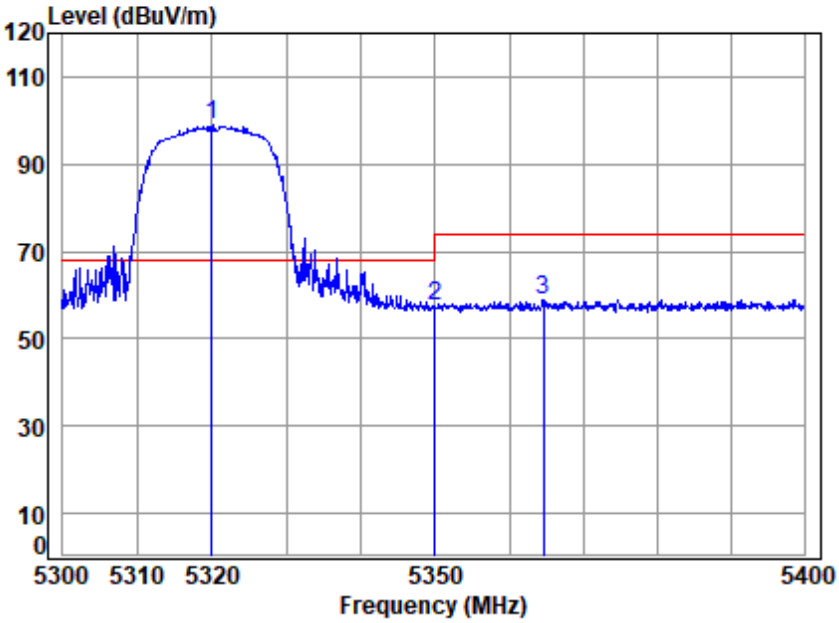
Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
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	86.91	99.23	68.20	31.03	peak
2	5350.020	10.45	32.80	30.76	45.10	57.59	74.00	-16.41	peak
3	5364.586	10.50	32.80	30.75	46.50	59.05	74.00	-14.95	peak

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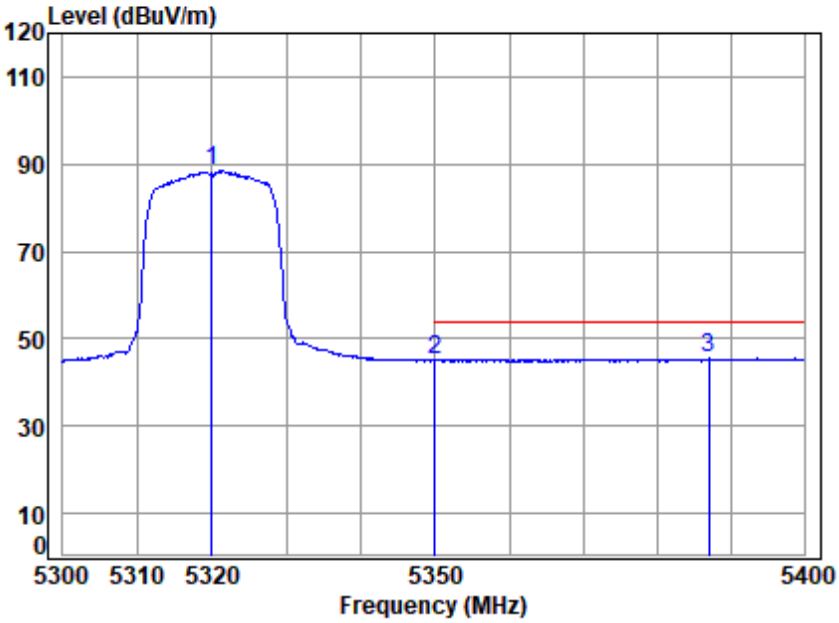
Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
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	76.13	88.45	------	------	Average
2	5350.020	10.45	32.80	30.76	32.63	45.12	54.00	-8.88	Average
3 pp	5387.095	10.58	32.80	30.75	32.86	45.49	54.00	-8.51	Average

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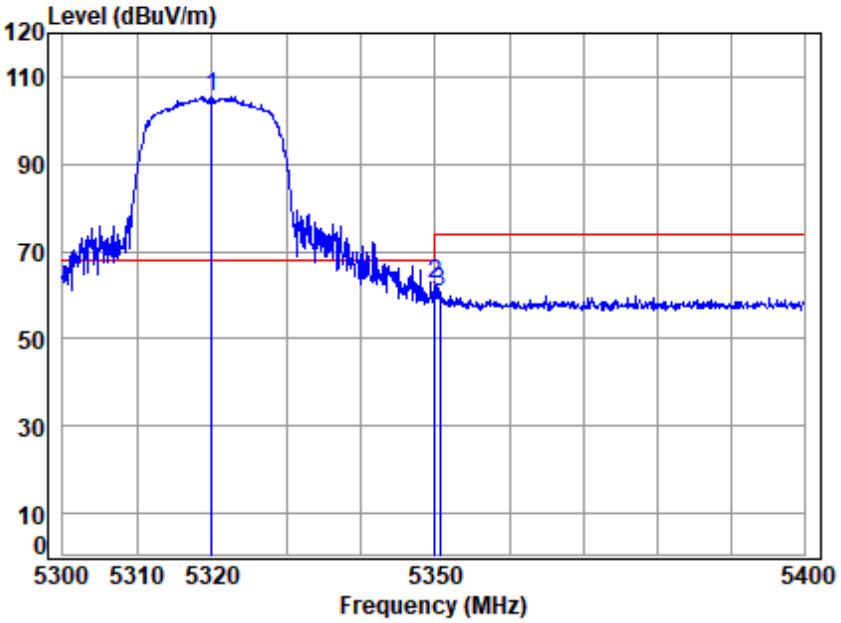
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
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	93.06	105.38	68.20	37.18	peak
2	5350.020	10.45	32.80	30.76	49.95	62.44	74.00	-11.56	peak
3	5350.667	10.45	32.80	30.76	48.22	60.71	74.00	-13.29	peak

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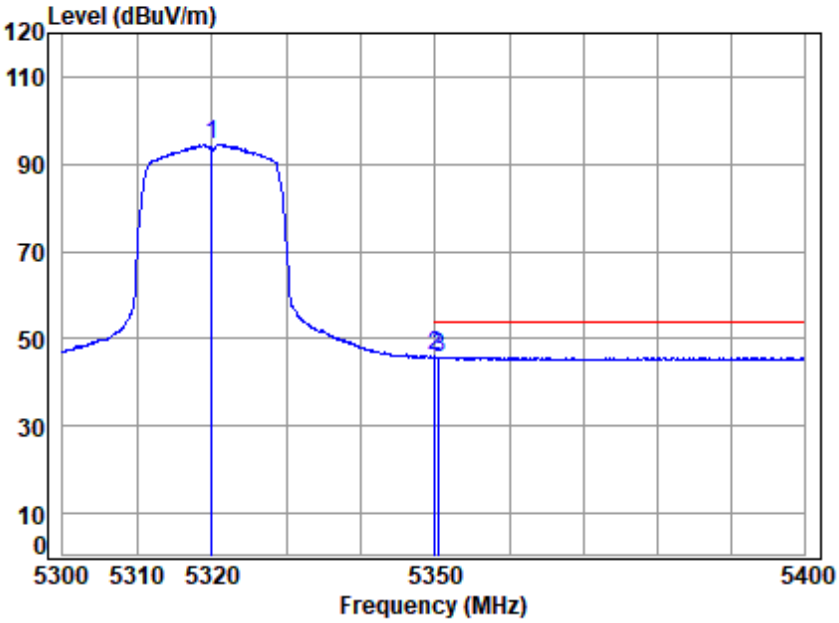
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
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	82.17	94.49	------	------	Average
2 pp	5350.020	10.45	32.80	30.76	33.46	45.95	54.00	-8.05	Average
3	5350.566	10.45	32.80	30.76	33.33	45.82	54.00	-8.18	Average

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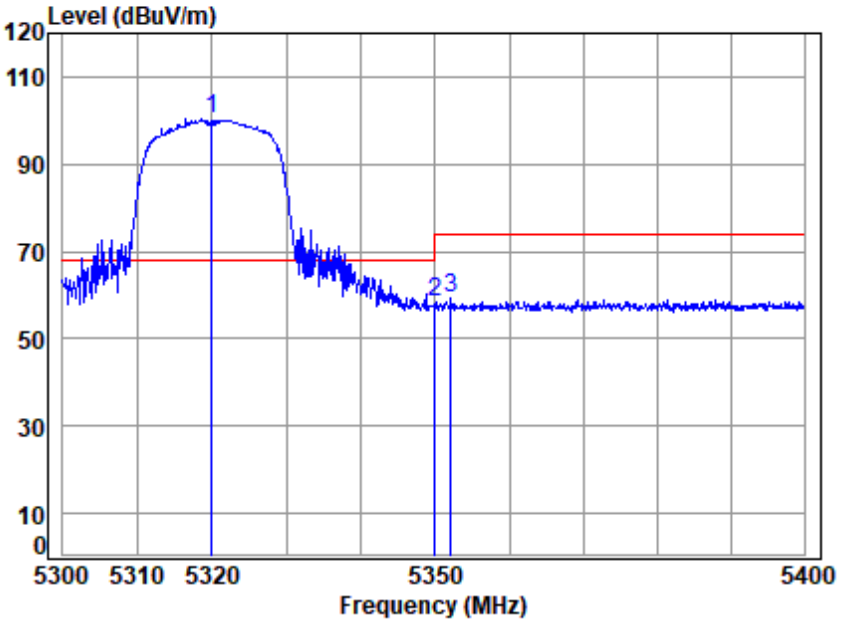
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
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	88.17	100.49	68.20	32.29	peak
2	5350.020	10.45	32.80	30.76	45.72	58.21	74.00	-15.79	peak
3	5352.167	10.46	32.80	30.76	46.70	59.20	74.00	-14.80	peak

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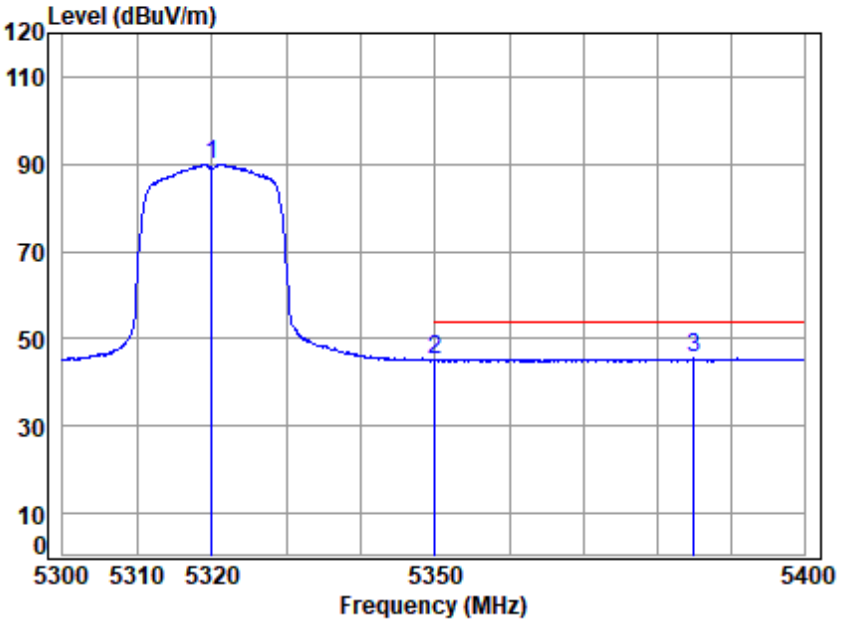
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
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	77.71	90.03	------	------	Average
2	5350.020	10.45	32.80	30.76	32.63	45.12	54.00	-8.88	Average
3 pp	5384.981	10.57	32.80	30.75	32.84	45.46	54.00	-8.54	Average

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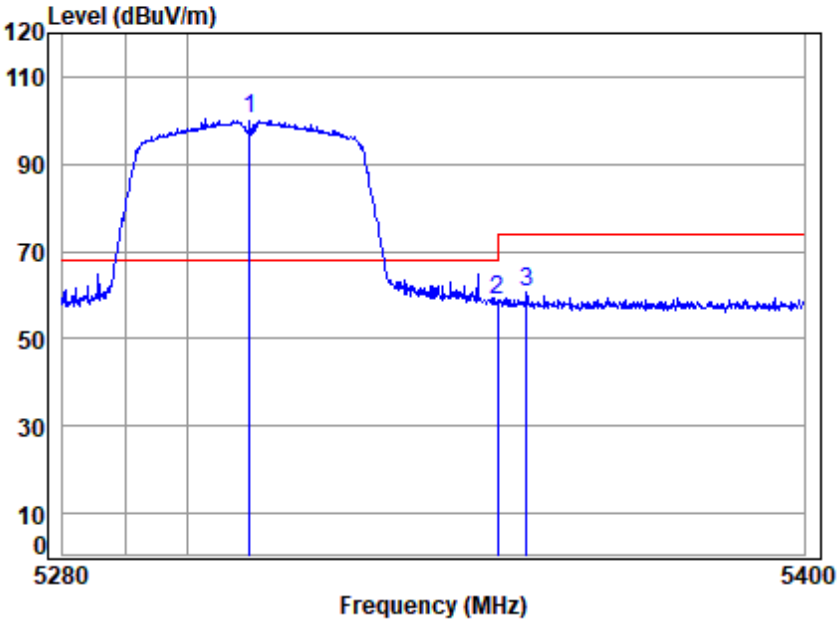
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
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	88.28	100.53	68.20	32.33	peak
2	5350.020	10.45	32.80	30.76	46.42	58.91	74.00	-15.09	peak
3	5354.804	10.47	32.80	30.76	47.96	60.47	74.00	-13.53	peak

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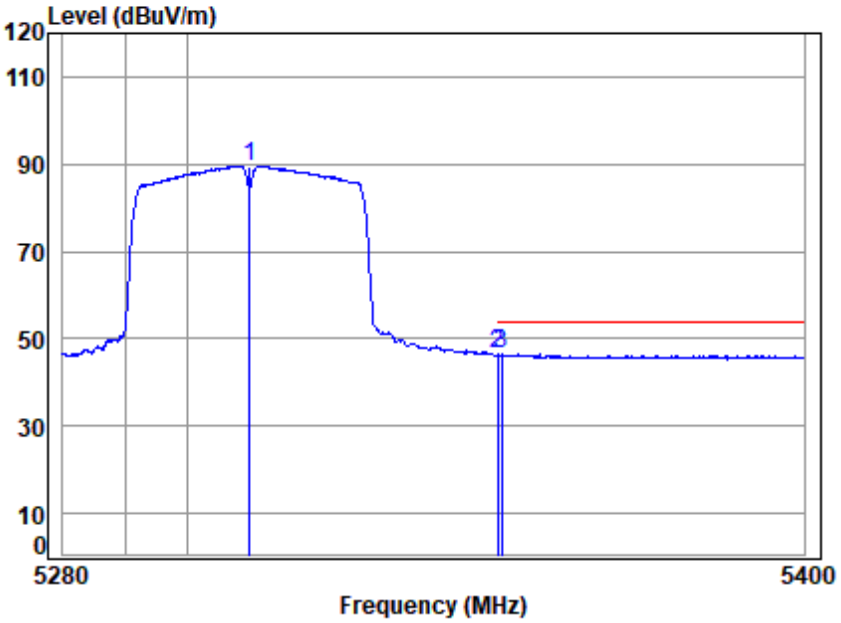
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
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	77.39	89.64	------	------	Average
2 pp	5350.020	10.45	32.80	30.76	33.91	46.40	54.00	-7.60	Average
3	5350.714	10.45	32.80	30.76	33.90	46.39	54.00	-7.61	Average

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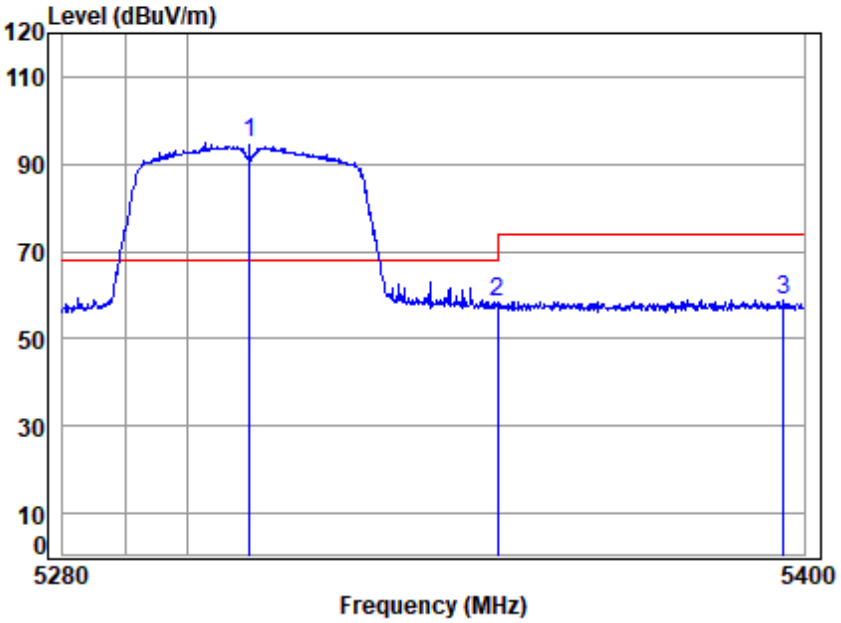
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
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	82.43	94.68	68.20	26.48	peak
2	5350.020	10.45	32.80	30.76	45.72	58.21	74.00	-15.79	peak
3	5396.603	10.61	32.80	30.74	46.33	59.00	74.00	-15.00	peak

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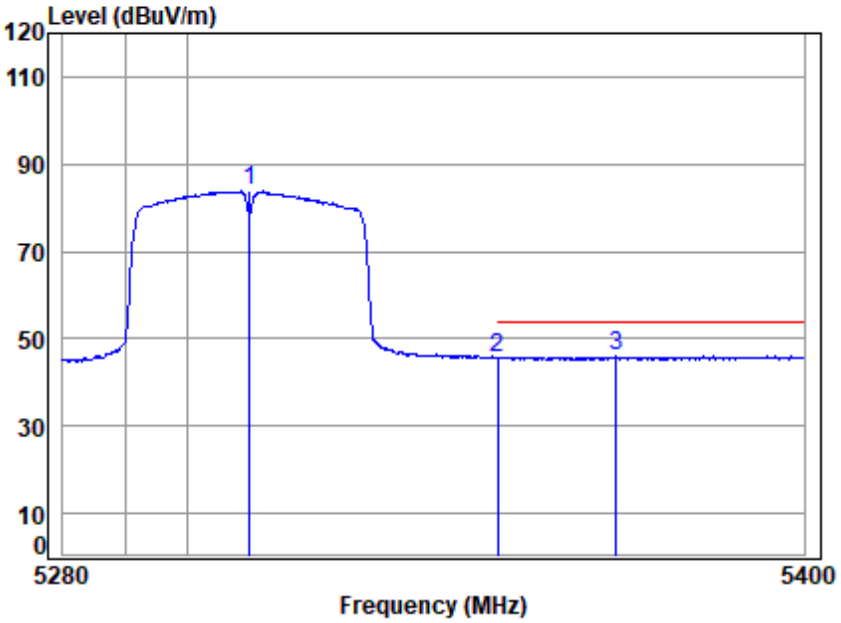
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
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	71.61	83.86	------	------	Average
2	5350.020	10.45	32.80	30.76	33.23	45.72	54.00	-8.28	Average
3 pp	5369.385	10.52	32.80	30.75	33.50	46.07	54.00	-7.93	Average

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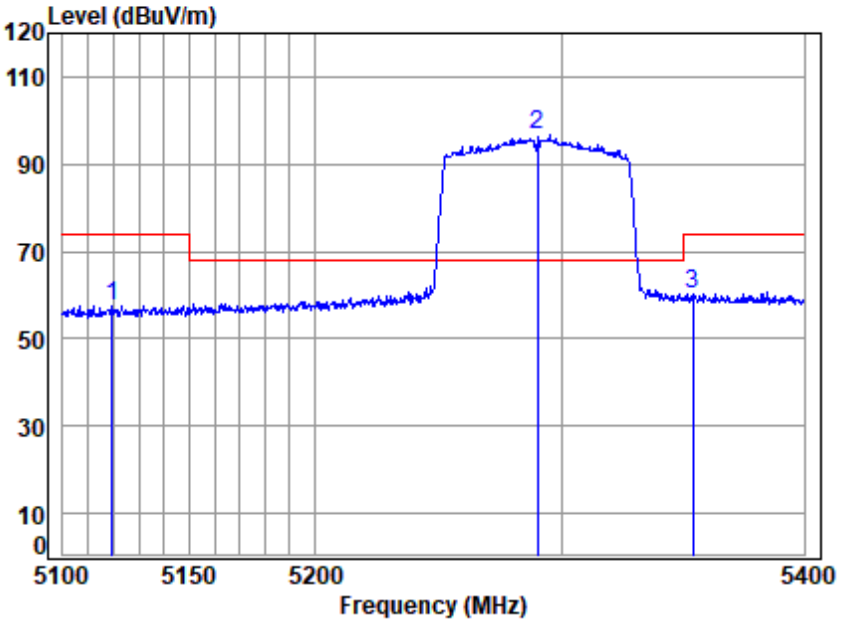
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01497WM
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	5119.568	10.02	32.34	30.85	46.18	57.69	74.00	-16.31	peak
2 pp	5290.000	10.28	32.68	30.78	84.36	96.54	68.20	28.34	peak
3	5353.899	10.46	32.80	30.76	47.75	60.25	74.00	-13.75	peak

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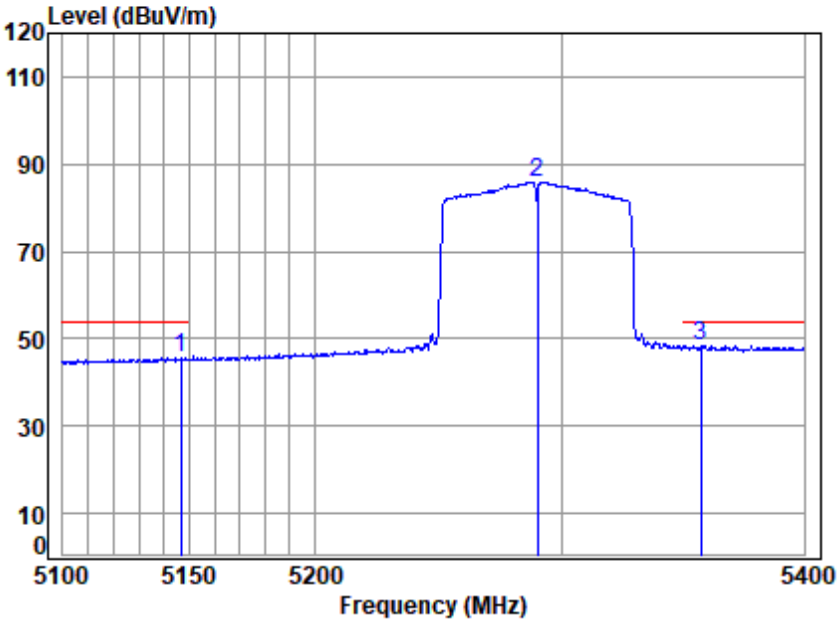
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01497WM
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	5146.855	10.13	32.39	30.84	33.84	45.52	54.00	-8.48	Average
2	5290.000	10.28	32.68	30.78	73.73	85.91	------	------	Average
3 pp	5357.267	10.47	32.80	30.76	35.78	48.29	54.00	-5.71	Average

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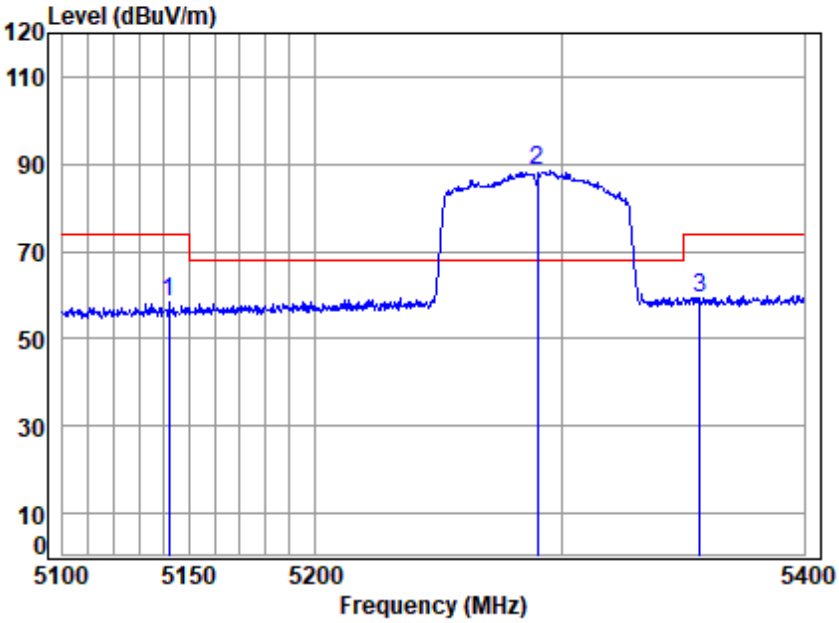
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01497WM
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	5141.856	10.11	32.38	30.84	46.65	58.30	74.00	-15.70	peak
2 pp	5290.000	10.28	32.68	30.78	76.54	88.72	68.20	20.52	peak
3	5356.654	10.47	32.80	30.76	46.98	59.49	74.00	-14.51	peak

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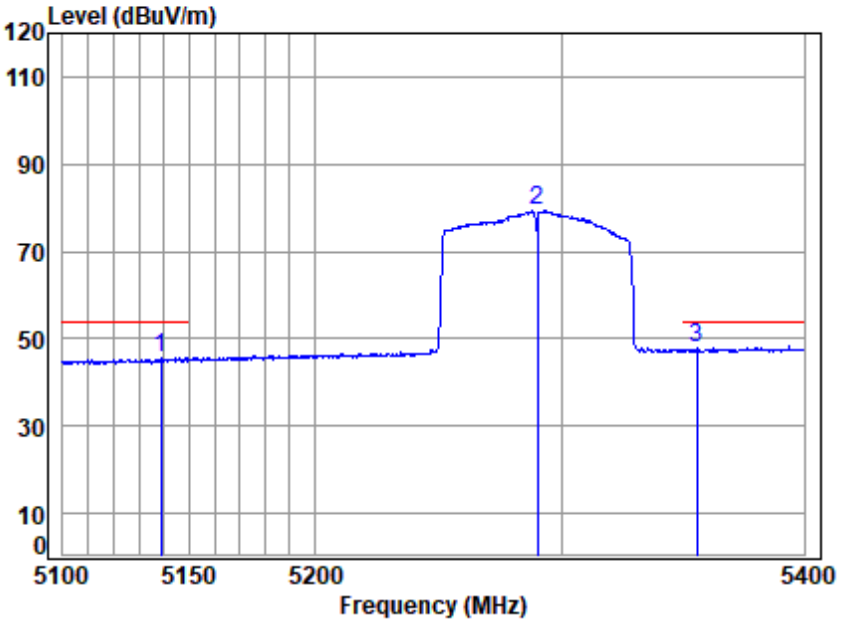

Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5290 Band edge
: 5GWIFI 11AC80

	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	5138.918	10.10	32.38	30.84	33.94	45.58	54.00	-8.42	Average
2	5290.000	10.28	32.68	30.78	67.15	79.33	------	------	Average
3 pp	5355.736	10.47	32.80	30.76	35.37	47.88	54.00	-6.12	Average

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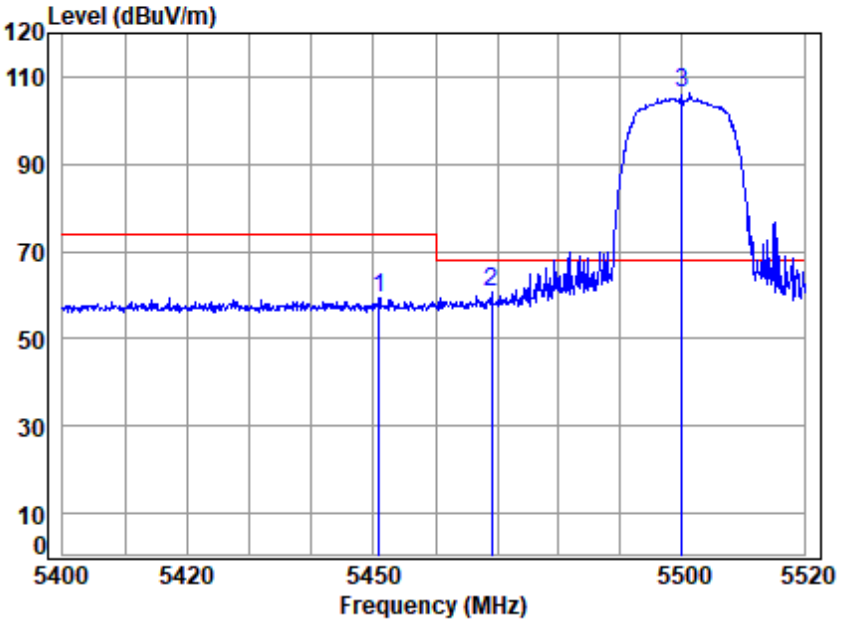
Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
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	5450.917	10.60	32.90	30.72	46.53	59.31	74.00	-14.69	peak
2	5469.038	10.59	32.90	30.71	47.85	60.63	68.20	-7.57	peak
3 pp	5500.000	10.58	32.90	30.70	93.31	106.09	68.20	37.89	peak

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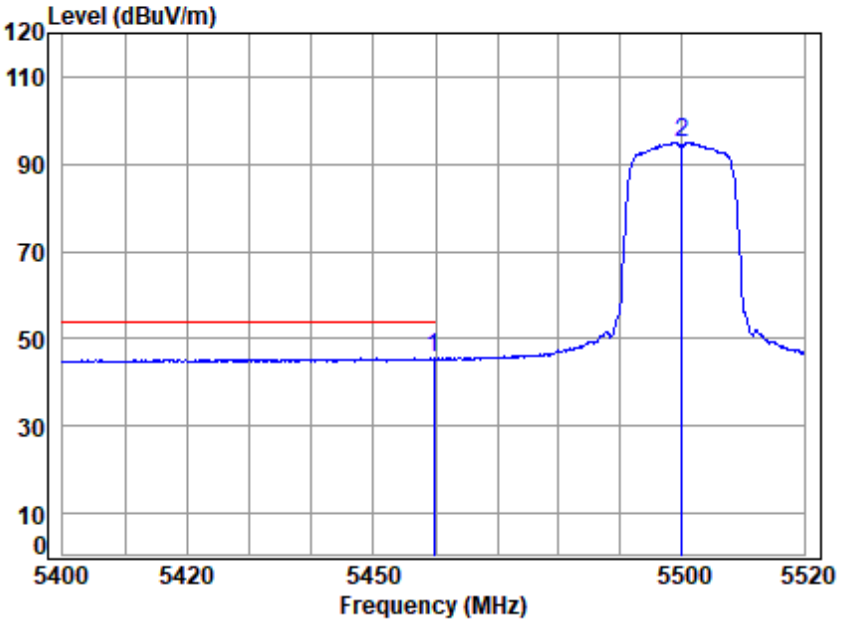
Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
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	5459.791	10.60	32.90	30.72	32.80	45.58	54.00	-8.42	Average
2	5500.000	10.58	32.90	30.70	82.32	95.10	------	------	Average

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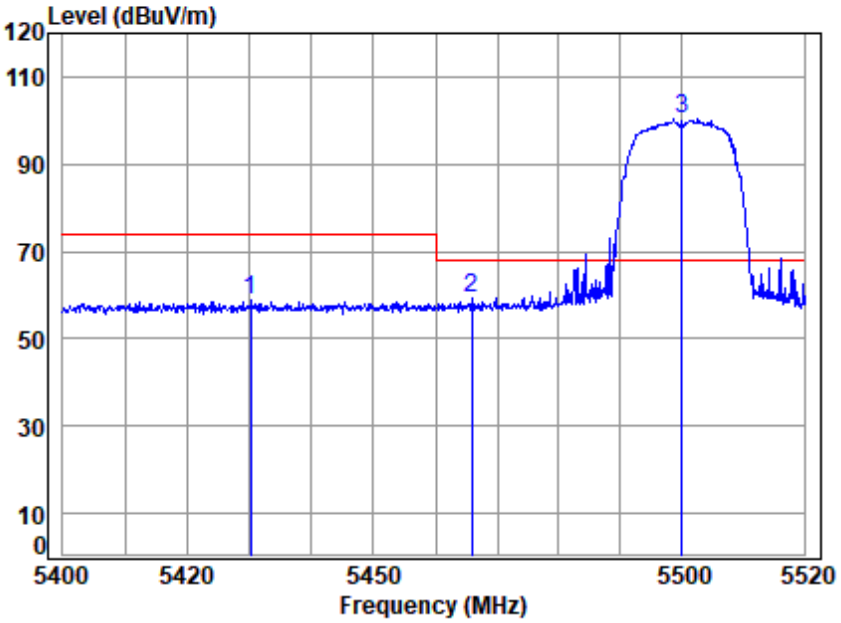

Condition: 3m VERTICAL
Job No : 01497WM
Mode : 5500 Band edge
: 5GWIFI 11A

	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	5430.230	10.61	32.86	30.73	46.10	58.84	74.00	-15.16	peak
2	5465.914	10.59	32.90	30.71	46.40	59.18	68.20	-9.02	peak
3 pp	5500.000	10.58	32.90	30.70	87.68	100.46	68.20	32.26	peak

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中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com
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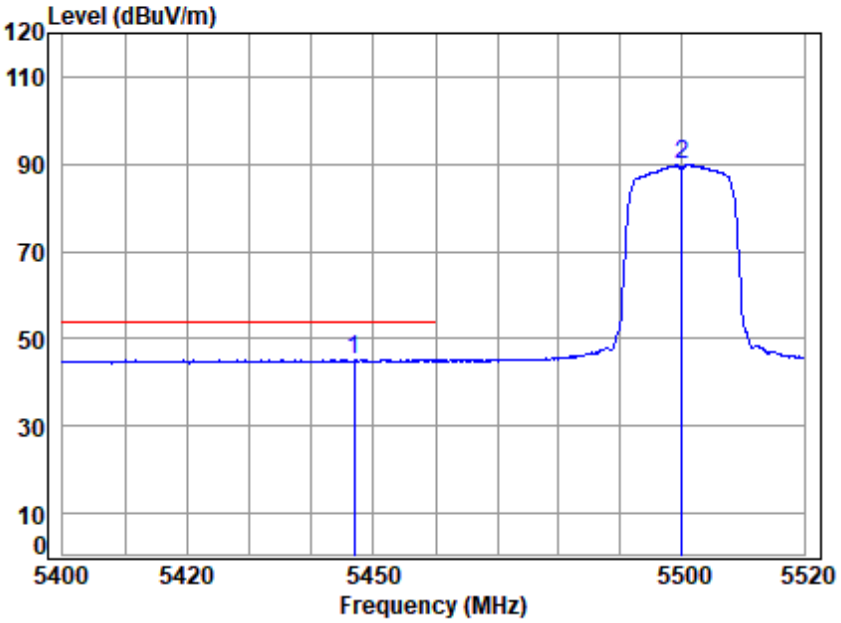
Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
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	5446.846	10.60	32.89	30.72	32.51	45.28	54.00	-8.72	Average
2	5500.000	10.58	32.90	30.70	77.23	90.01	------	------	Average

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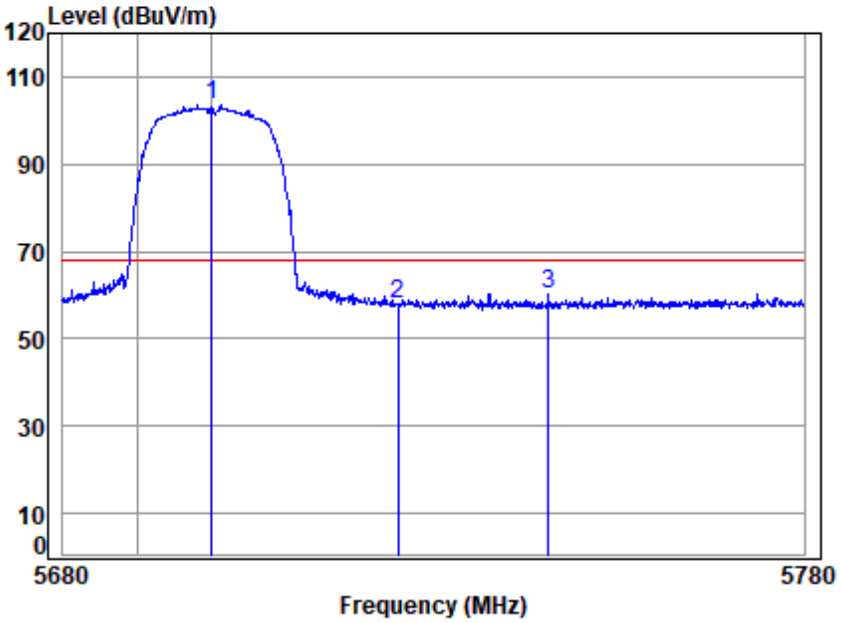
Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
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	90.34	103.48	68.20	35.28	peak
2	5725.000	10.68	33.25	30.61	44.64	57.96	68.20	-10.24	peak
3	5745.303	10.77	33.29	30.60	46.71	60.17	68.20	-8.03	peak

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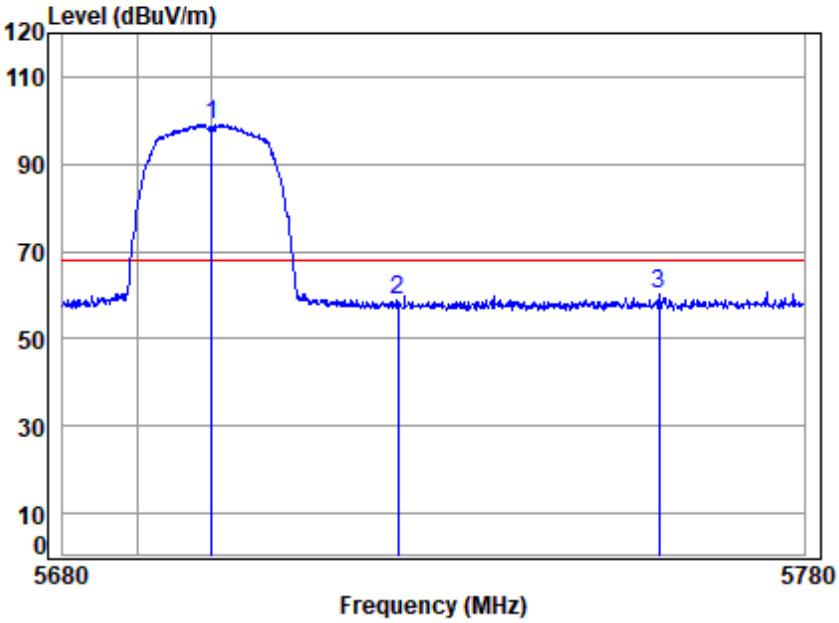
Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
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	86.02	99.16	68.20	30.96	peak
2	5725.000	10.68	33.25	30.61	45.32	58.64	68.20	-9.56	peak
3	5760.262	10.84	33.32	30.60	46.66	60.22	68.20	-7.98	peak

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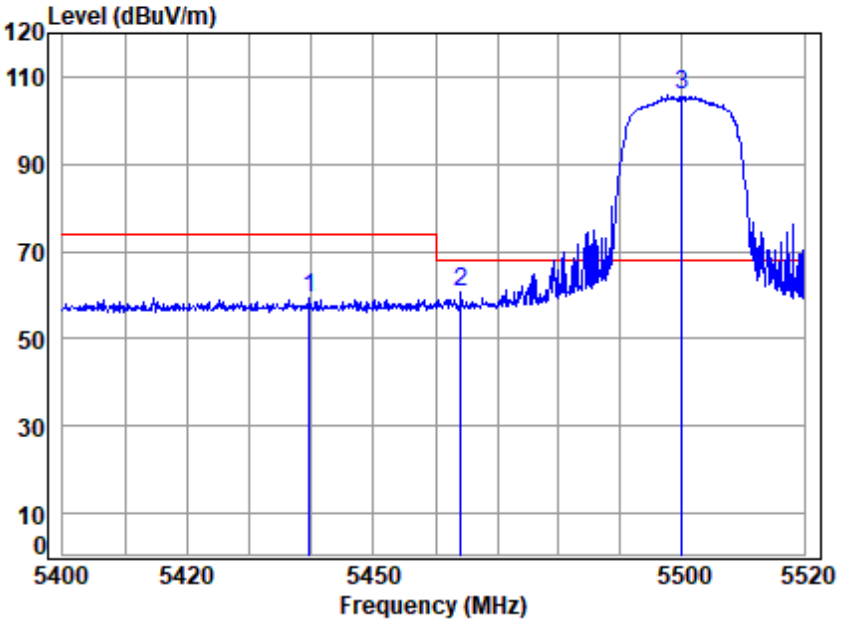
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
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	5439.667	10.60	32.88	30.72	46.44	59.20	74.00	-14.80	peak
2	5464.112	10.59	32.90	30.71	47.96	60.74	68.20	-7.46	peak
3 pp	5500.000	10.58	32.90	30.70	92.99	105.77	68.20	37.57	peak

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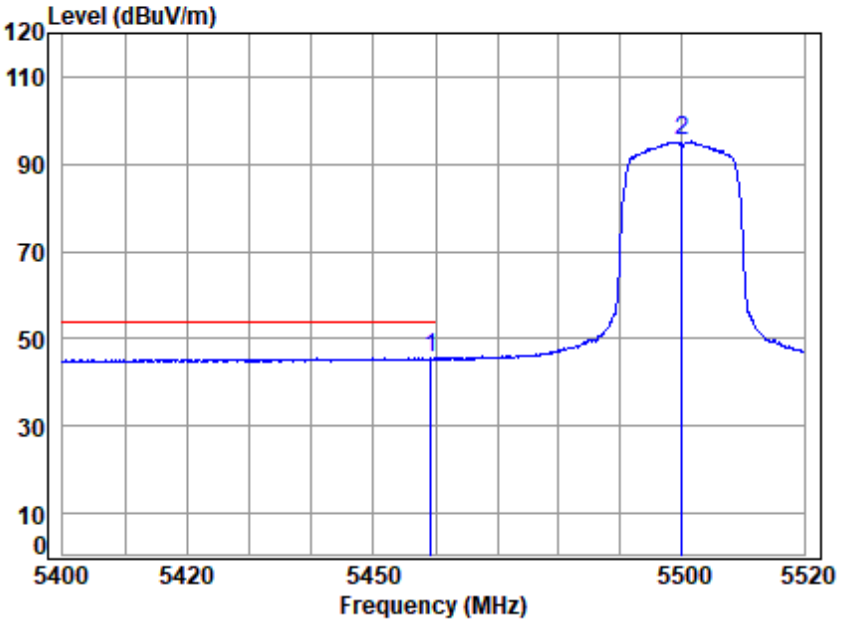
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
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	5459.190	10.60	32.90	30.72	32.86	45.64	54.00	-8.36	Average
2	5500.000	10.58	32.90	30.70	82.39	95.17	------	------	Average

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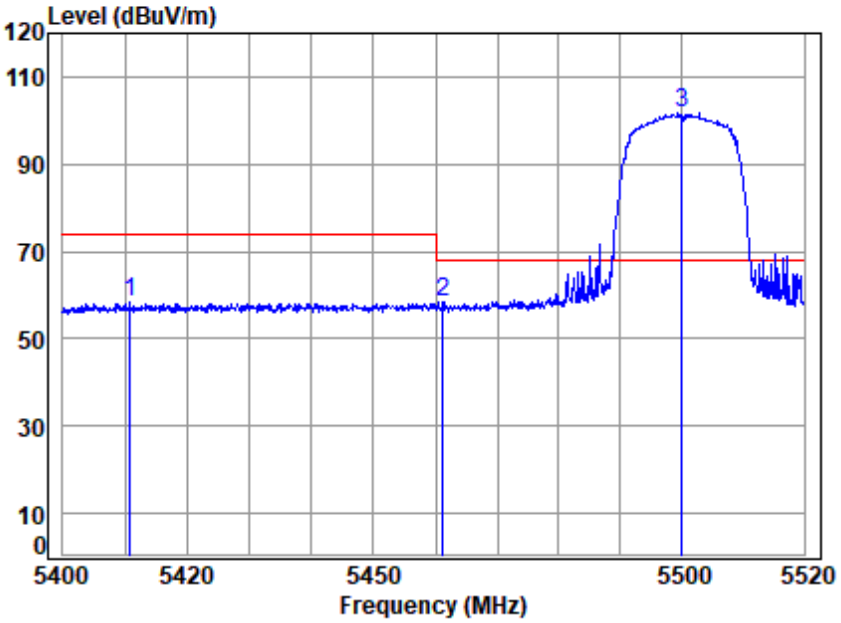
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
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	5410.811	10.62	32.82	30.74	45.51	58.21	74.00	-15.79	peak
2	5461.230	10.60	32.90	30.72	45.85	58.63	68.20	-9.57	peak
3 pp	5500.000	10.58	32.90	30.70	89.03	101.81	68.20	33.61	peak

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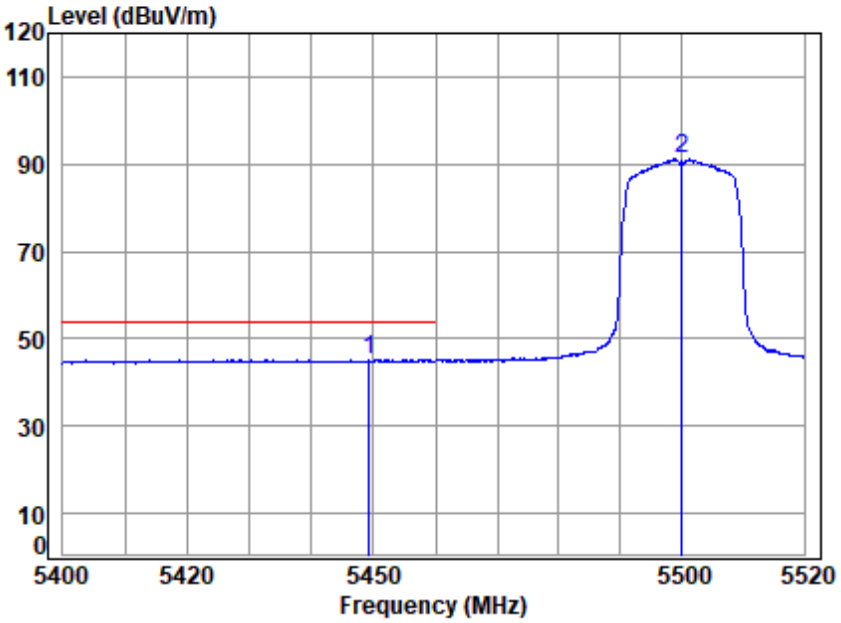
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
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	5449.241	10.60	32.90	30.72	32.38	45.16	54.00	-8.84	Average
2	5500.000	10.58	32.90	30.70	78.37	91.15	------	------	Average

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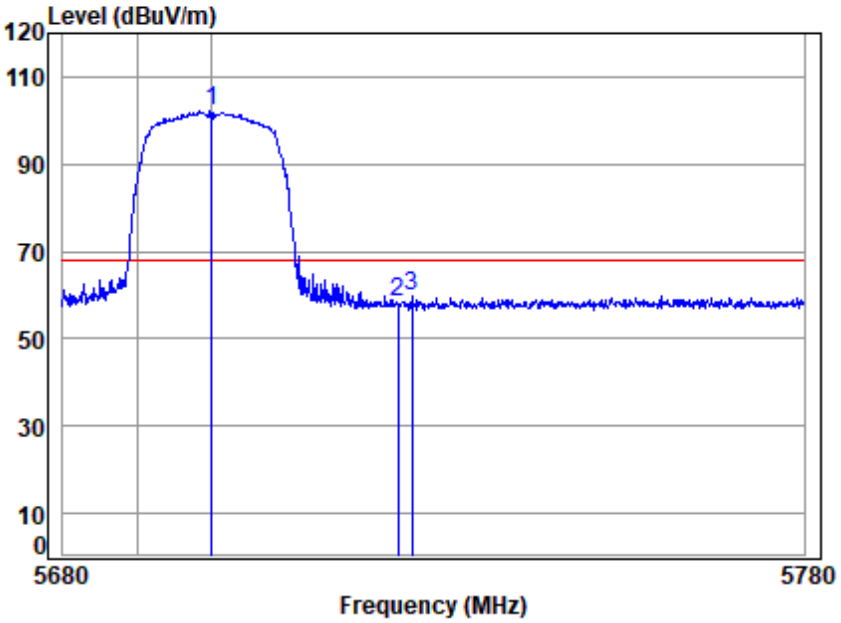
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
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	89.19	102.33	68.20	34.13	peak
2	5725.000	10.68	33.25	30.61	45.19	58.51	68.20	-9.69	peak
3	5726.883	10.68	33.25	30.61	46.50	59.82	68.20	-8.38	peak

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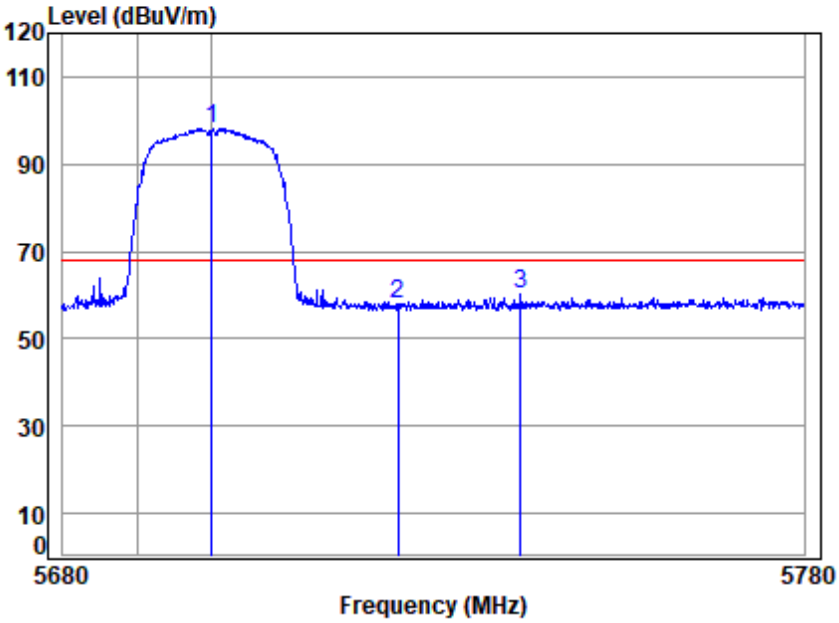
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
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	85.01	98.15	68.20	29.95	peak
2	5725.000	10.68	33.25	30.61	44.50	57.82	68.20	-10.38	peak
3	5741.594	10.75	33.28	30.60	46.95	60.38	68.20	-7.82	peak

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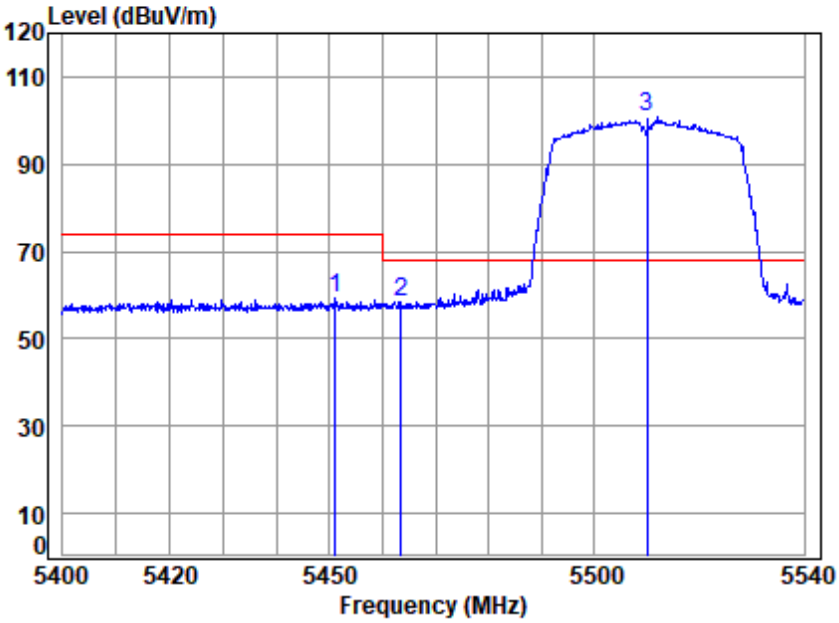
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
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	5450.964	10.60	32.90	30.72	46.42	59.20	74.00	-14.80	peak
2	5463.396	10.59	32.90	30.71	45.81	58.59	68.20	-9.61	peak
3 pp	5510.000	10.56	32.90	30.70	87.94	100.70	68.20	32.50	peak

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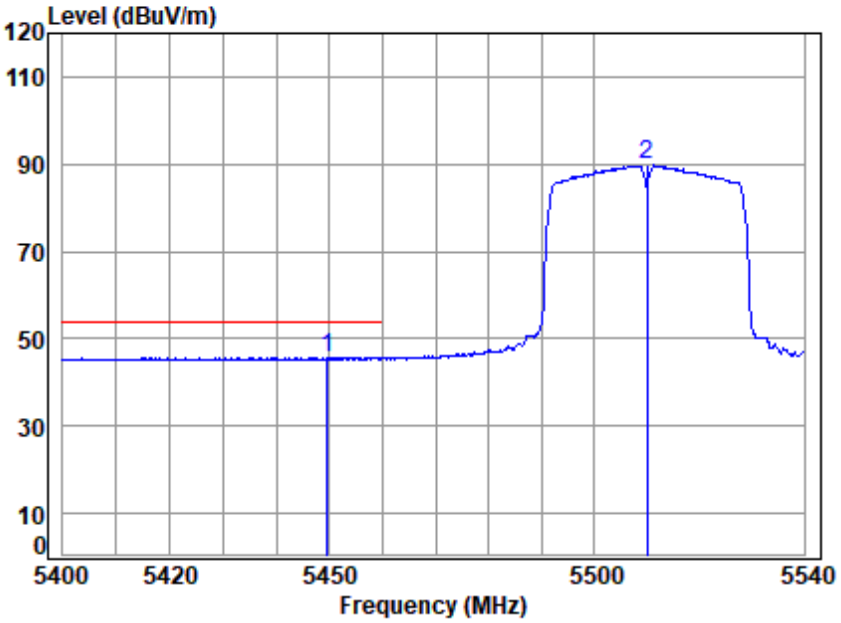
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
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	5449.569	10.60	32.90	30.72	33.00	45.78	54.00	-8.22	Average
2	5510.000	10.56	32.90	30.70	77.00	89.76	------	------	Average

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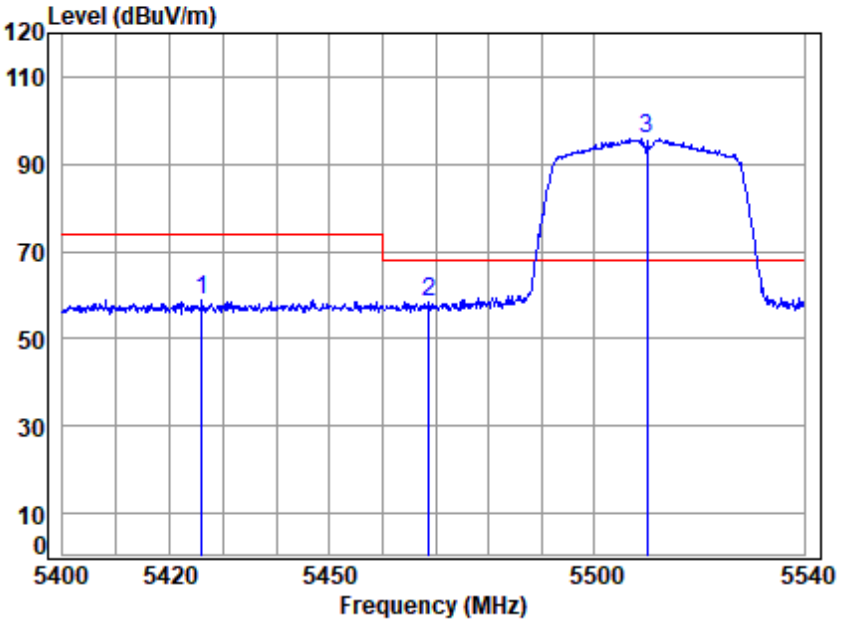
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
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	5426.047	10.61	32.85	30.73	46.20	58.93	74.00	-15.07	peak
2	5468.712	10.59	32.90	30.71	45.63	58.41	68.20	-9.79	peak
3 pp	5510.000	10.56	32.90	30.70	82.97	95.73	68.20	27.53	peak

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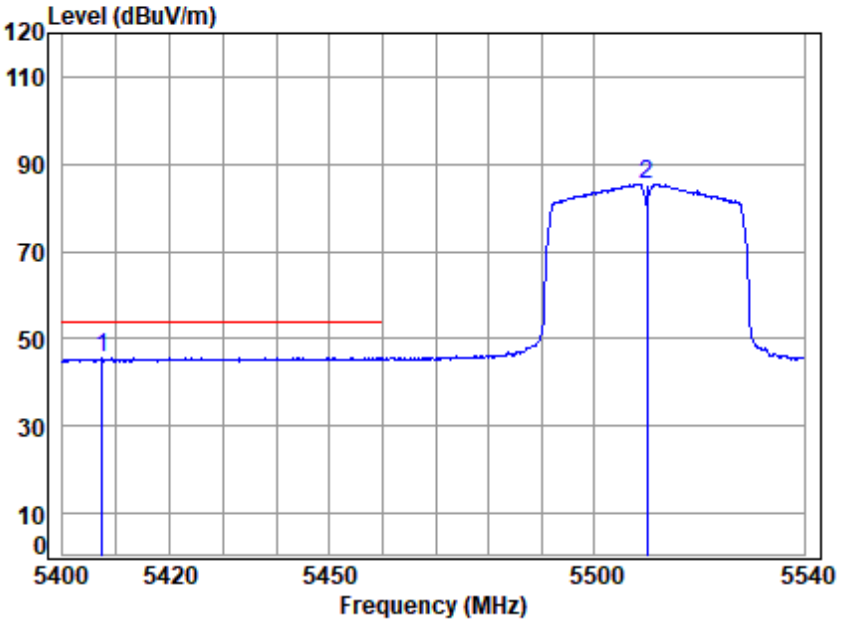
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
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	5407.331	10.62	32.81	30.74	32.97	45.66	54.00	-8.34	Average
2	5510.000	10.56	32.90	30.70	72.72	85.48	------	------	Average

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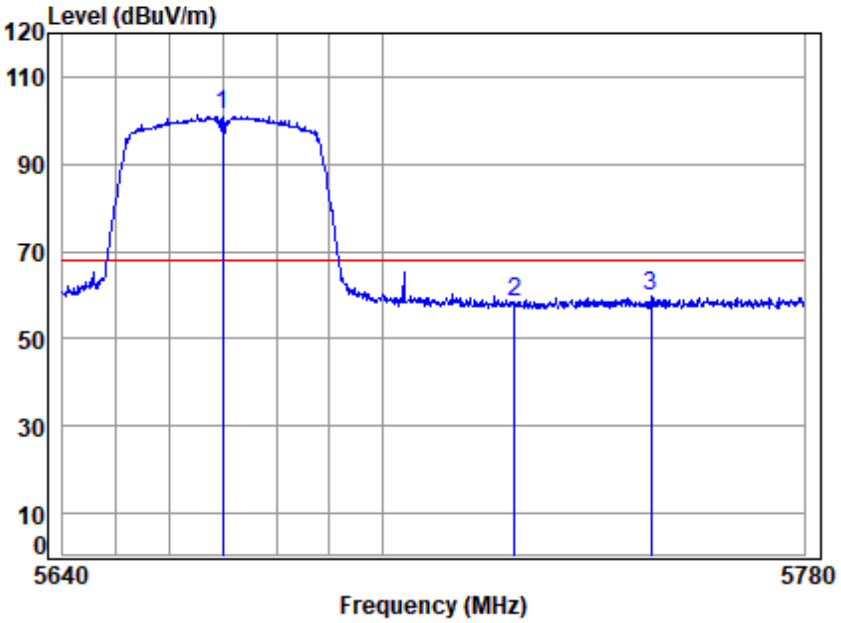
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
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	88.37	101.40	68.20	33.20	peak
2	5725.000	10.68	33.25	30.61	45.19	58.51	68.20	-9.69	peak
3	5750.878	10.79	33.30	30.60	46.17	59.66	68.20	-8.54	peak

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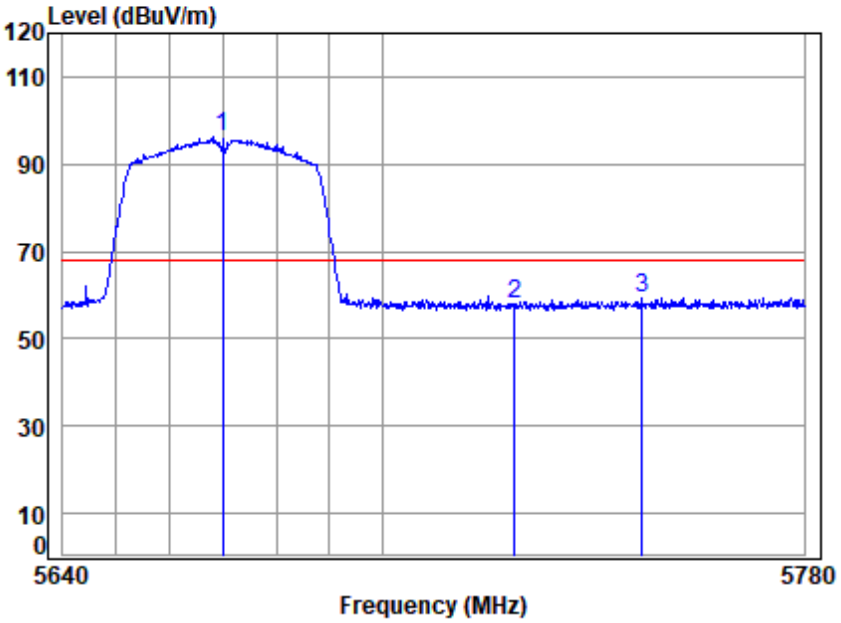
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
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	83.13	96.16	68.20	27.96	peak
2	5725.000	10.68	33.25	30.61	44.82	58.14	68.20	-10.06	peak
3	5749.187	10.79	33.30	30.60	45.73	59.22	68.20	-8.98	peak

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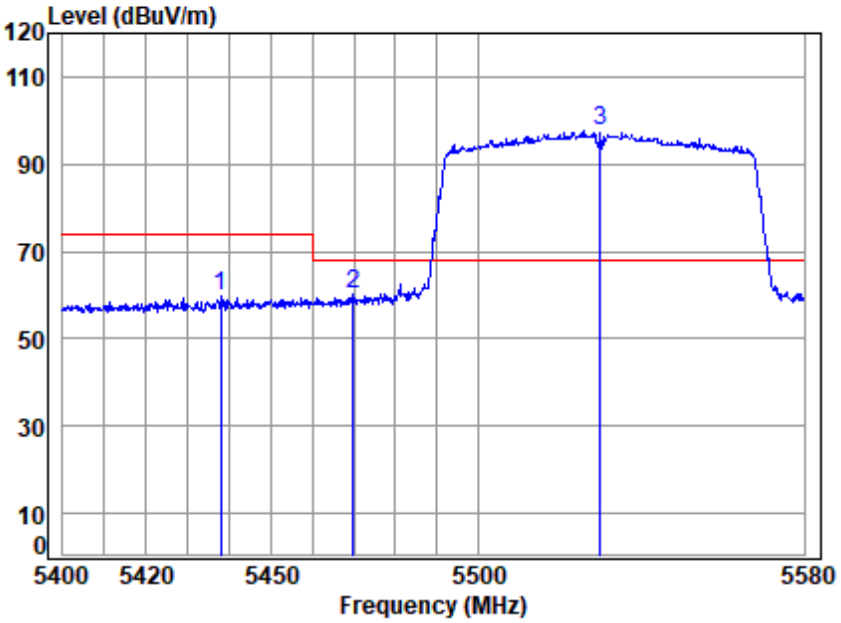
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
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	5437.847	10.60	32.88	30.72	46.83	59.59	74.00	-14.41	peak
2	5469.857	10.59	32.90	30.71	47.55	60.33	68.20	-7.87	peak
3 pp	5530.000	10.53	32.90	30.69	84.75	97.49	68.20	29.29	peak

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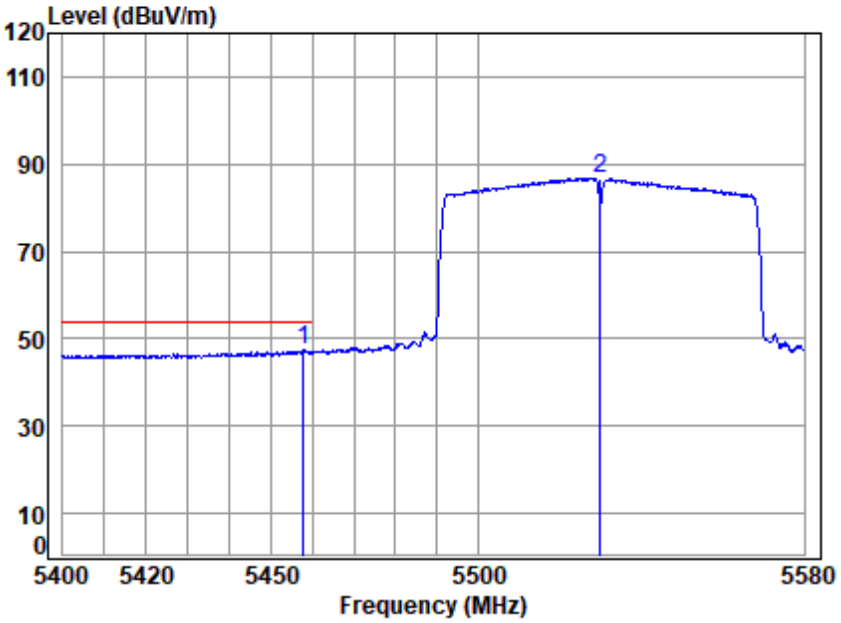
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
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	5457.675	10.60	32.90	30.72	34.60	47.38	54.00	-6.62	Average
2	5530.000	10.53	32.90	30.69	74.17	86.91	------	------	Average

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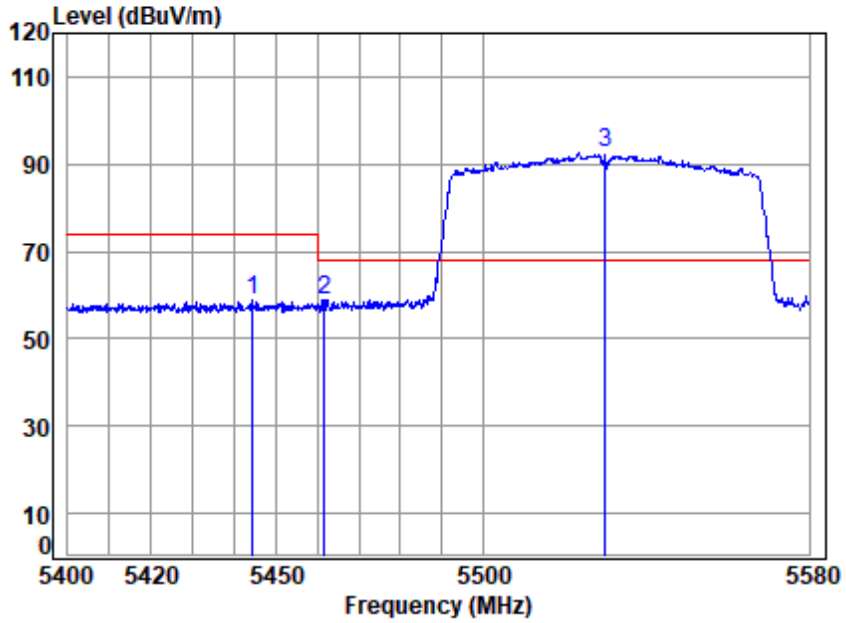
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
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	5444.448	10.60	32.89	30.72	46.13	58.90	74.00	-15.10	peak
2	5461.613	10.60	32.90	30.72	46.14	58.92	68.20	-9.28	peak
3 pp	5530.000	10.53	32.90	30.69	79.70	92.44	68.20	24.24	peak

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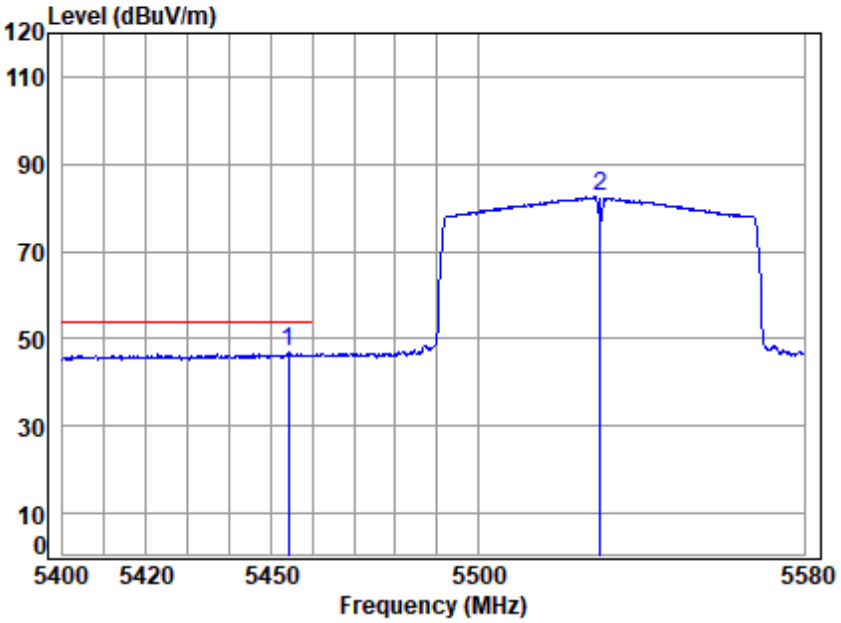
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
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	5454.097	10.60	32.90	30.72	34.10	46.88	54.00	-7.12	Average
2	5530.000	10.53	32.90	30.69	69.82	82.56	------	------	Average

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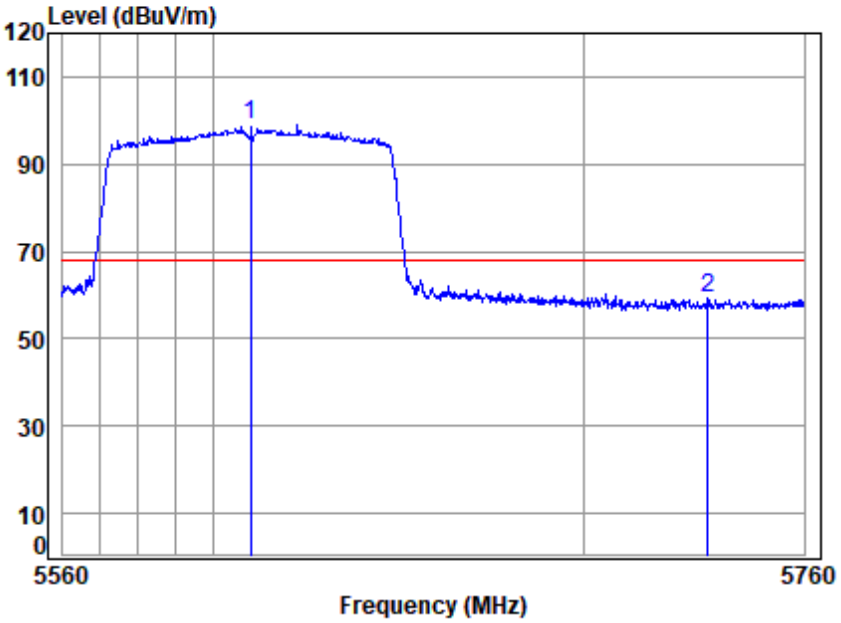

Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 5610 Band edge
: 5GWIFI 11AC80

	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	86.03	98.82	68.20	30.62	peak
2	5733.599	10.71	33.27	30.61	46.06	59.43	68.20	-8.77	peak

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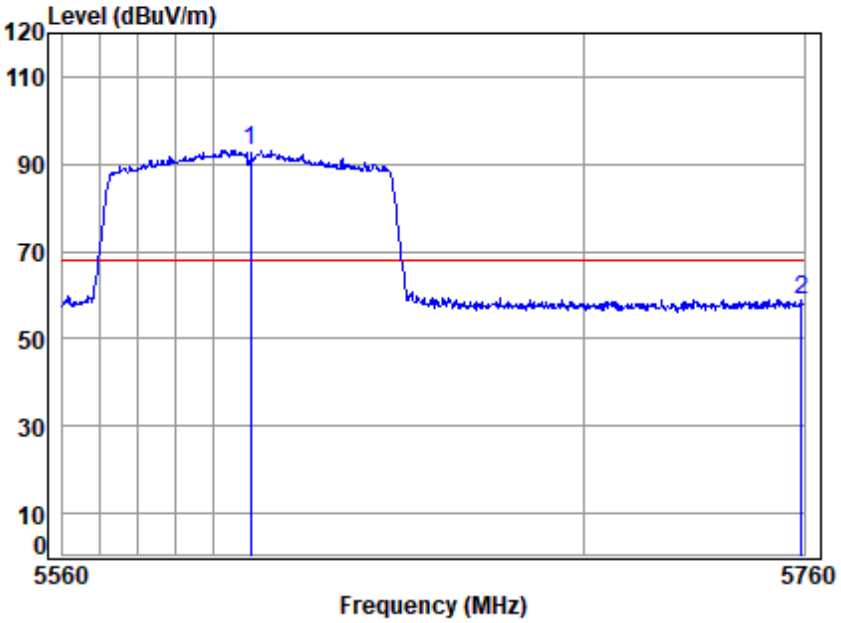
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
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	80.50	93.29	68.20	25.09	peak
2	5759.389	10.83	33.32	30.60	45.46	59.01	68.20	-9.19	peak

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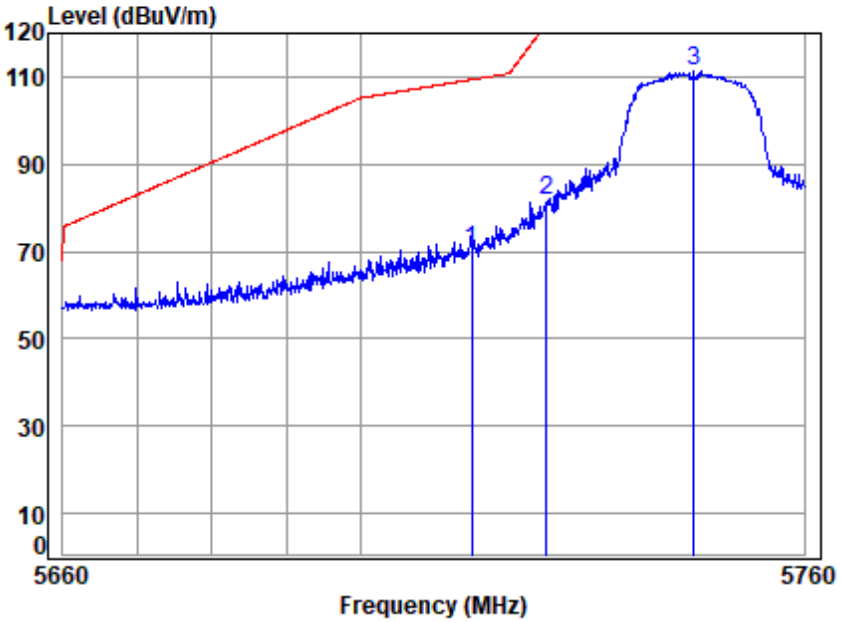
Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
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	56.88	70.13	109.40	-39.27	peak
2	5725.000	10.68	33.25	30.61	68.39	81.71	122.20	-40.49	peak
3	5745.000	10.77	33.29	30.60	97.93	111.39	------	------	peak

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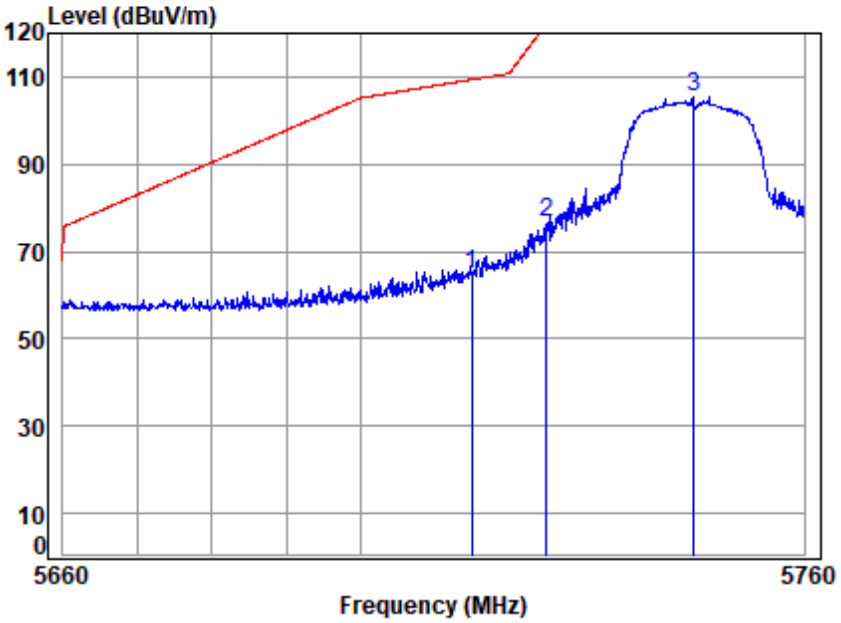
Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
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	51.45	64.70	109.40	-44.70	peak
2	5725.000	10.68	33.25	30.61	63.52	76.84	122.20	-45.36	peak
3	5745.000	10.77	33.29	30.60	91.80	105.26	------	------	peak

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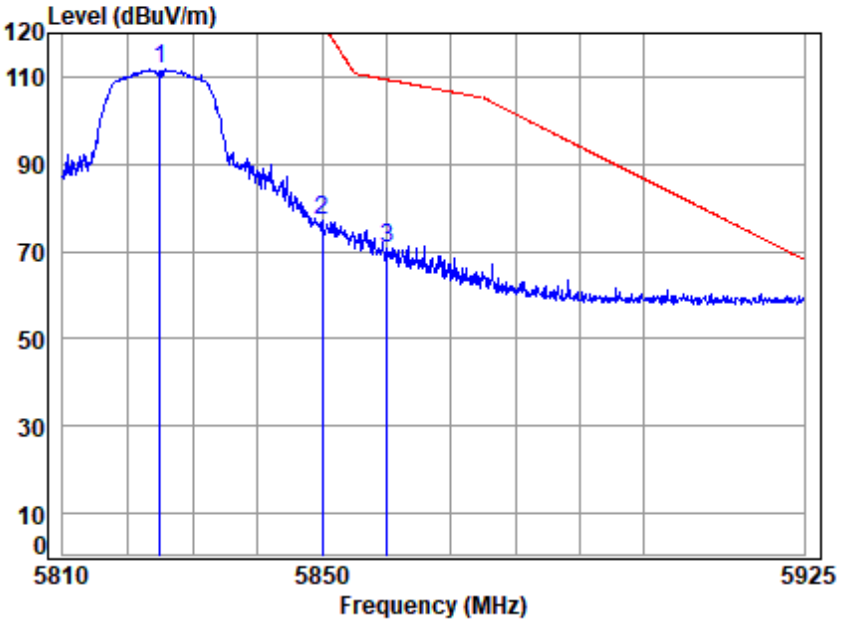
Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
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	97.73	111.65	------	------	peak
2	5850.000	10.95	33.60	30.56	63.07	77.06	122.20	-45.14	peak
3 pp	5860.000	10.94	33.58	30.56	56.78	70.74	109.40	-38.66	peak

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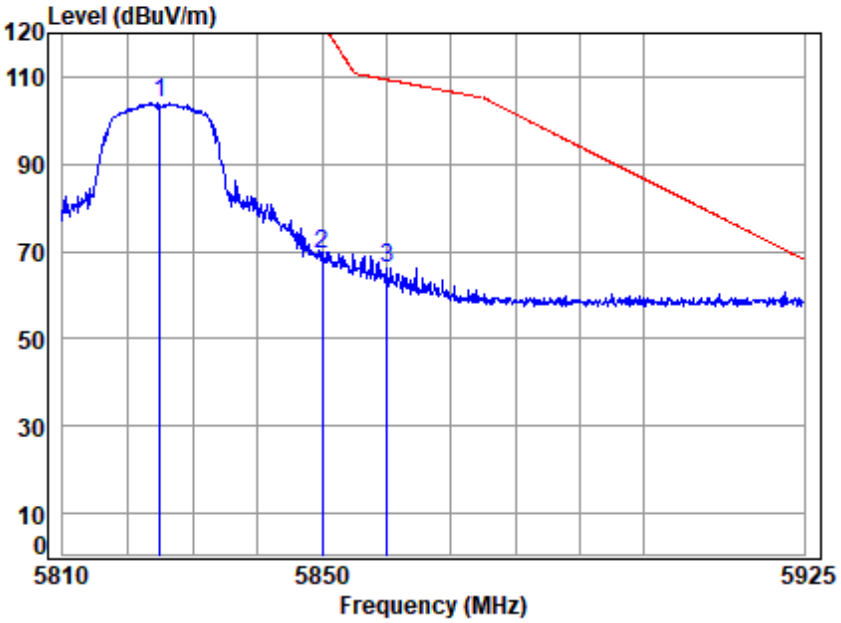
Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
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	90.08	104.00	------	------	peak
2	5850.000	10.95	33.60	30.56	55.32	69.31	122.20	-52.89	peak
3 pp	5860.000	10.94	33.58	30.56	52.31	66.27	109.40	-43.13	peak

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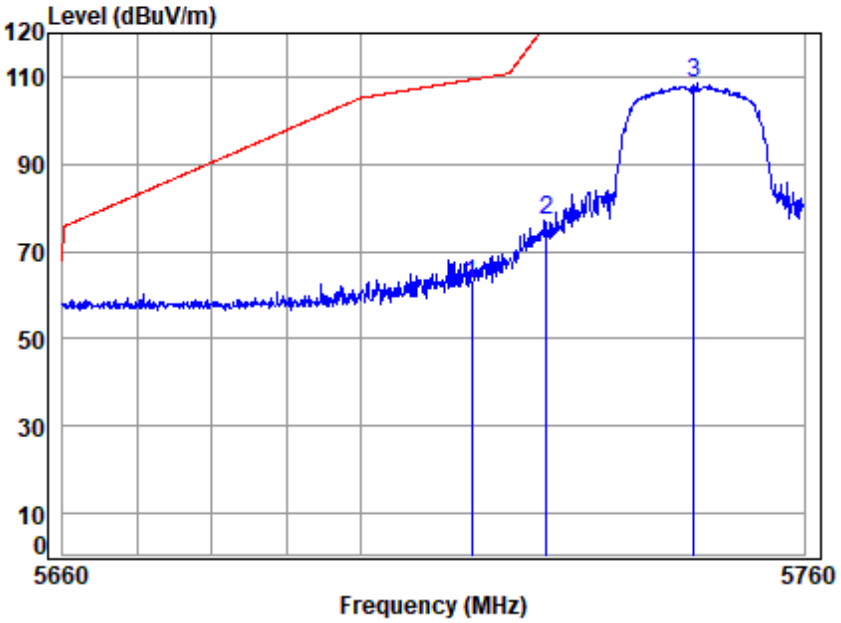
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
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	5715.000	10.63	33.23	30.61	49.15	62.40	109.40	-47.00	peak
2 pp	5725.000	10.68	33.25	30.61	63.73	77.05	122.20	-45.15	peak
3	5745.000	10.77	33.29	30.60	94.93	108.39	------	------	peak

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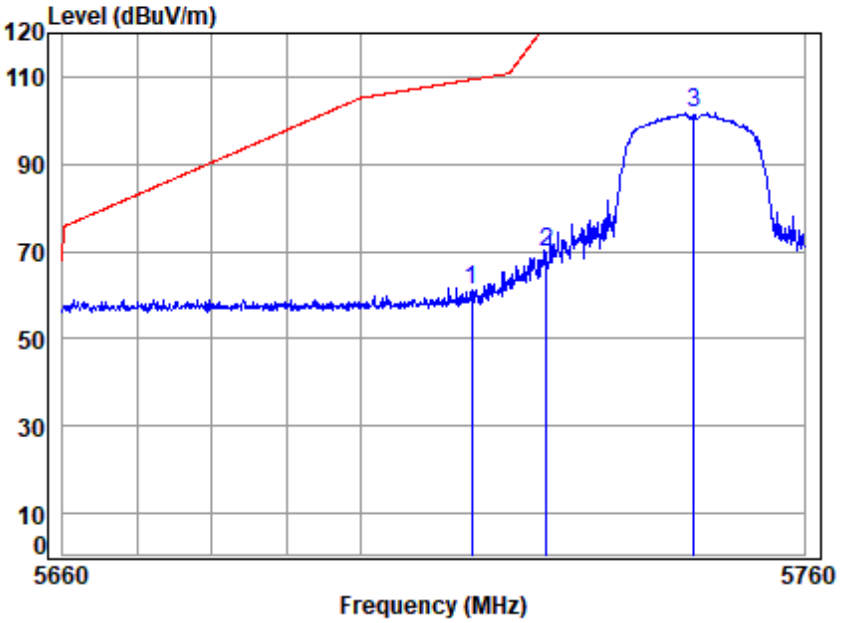
Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
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	48.04	61.29	109.40	-48.11	peak
2	5725.000	10.68	33.25	30.61	56.43	69.75	122.20	-52.45	peak
3	5745.000	10.77	33.29	30.60	88.40	101.86	------	------	peak

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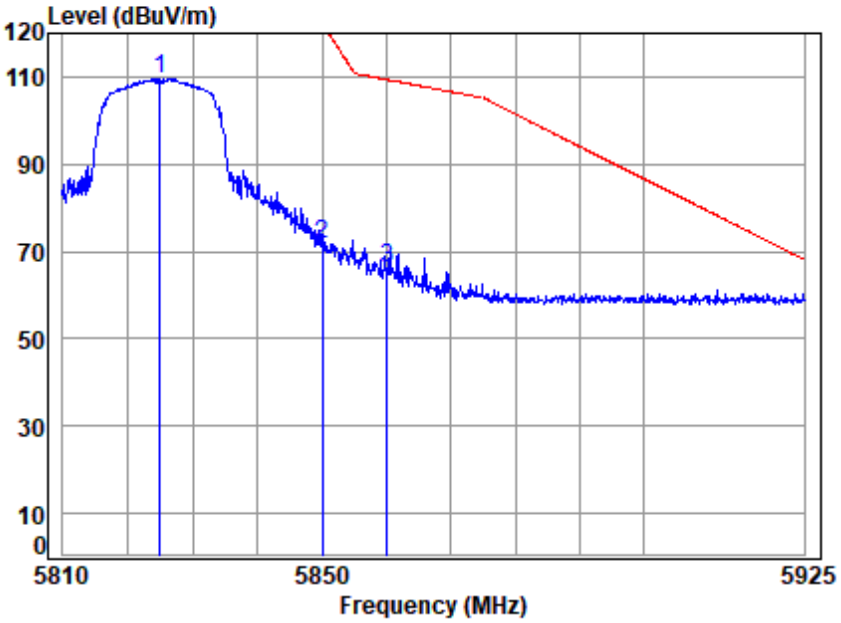
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
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	95.80	109.72	------	------	peak
2	5850.000	10.95	33.60	30.56	57.54	71.53	122.20	-50.67	peak
3 pp	5860.000	10.94	33.58	30.56	52.10	66.06	109.40	-43.34	peak

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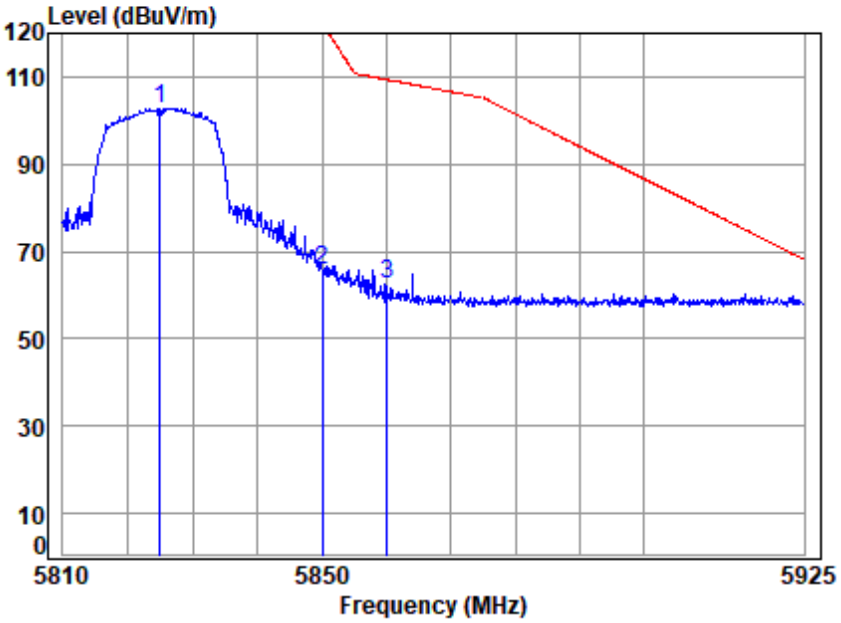
Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
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	88.94	102.86	------	------	peak
2	5850.000	10.95	33.60	30.56	51.69	65.68	122.20	-56.52	peak
3 pp	5860.000	10.94	33.58	30.56	48.34	62.30	109.40	-47.10	peak

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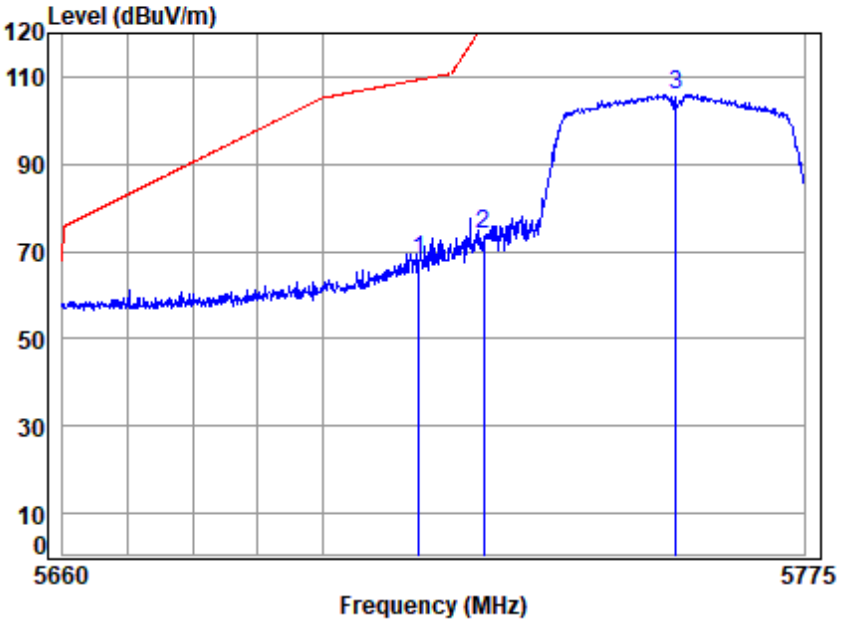
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01497WM
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	54.79	68.04	109.40	-41.36	peak
2	5725.000	10.68	33.25	30.61	60.47	73.79	122.20	-48.41	peak
3	5755.000	10.81	33.31	30.60	92.48	106.00	------	------	peak

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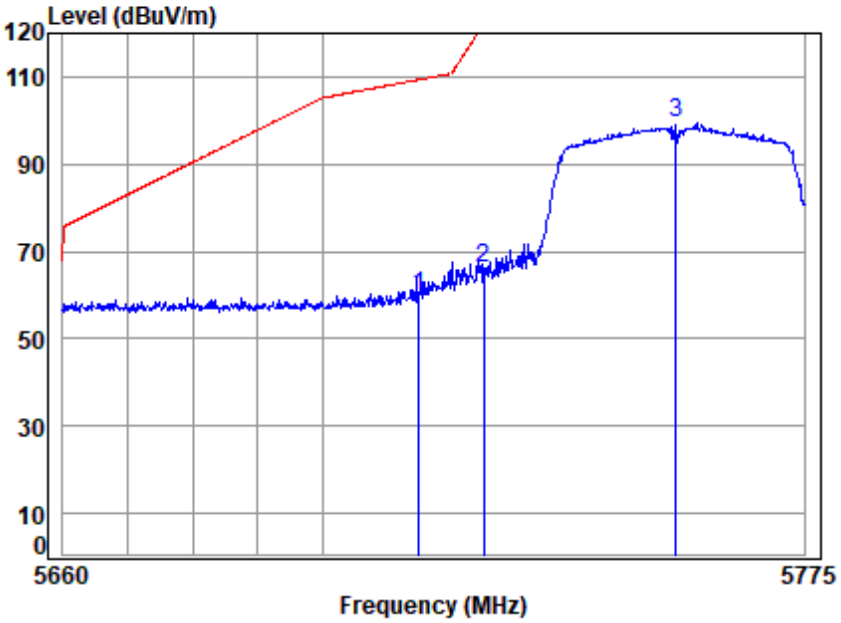
Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 01497WM
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	46.38	59.63	109.40	-49.77	peak
2	5725.000	10.68	33.25	30.61	52.86	66.18	122.20	-56.02	peak
3	5755.000	10.81	33.31	30.60	85.89	99.41	------	------	peak

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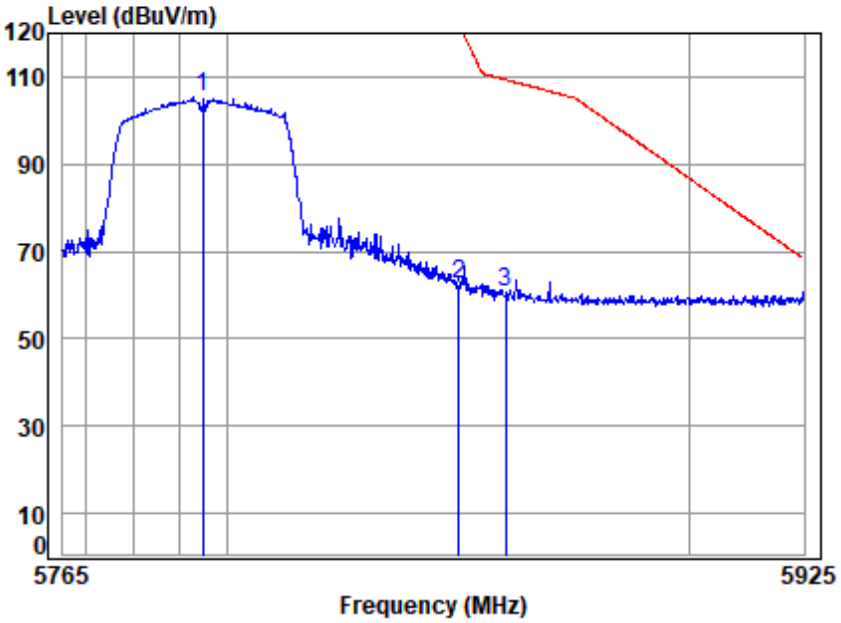
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01497WM
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	91.49	105.30	------	------	peak
2	5850.000	10.95	33.60	30.56	48.33	62.32	122.20	-59.88	peak
3 pp	5860.000	10.94	33.58	30.56	46.67	60.63	109.40	-48.77	peak

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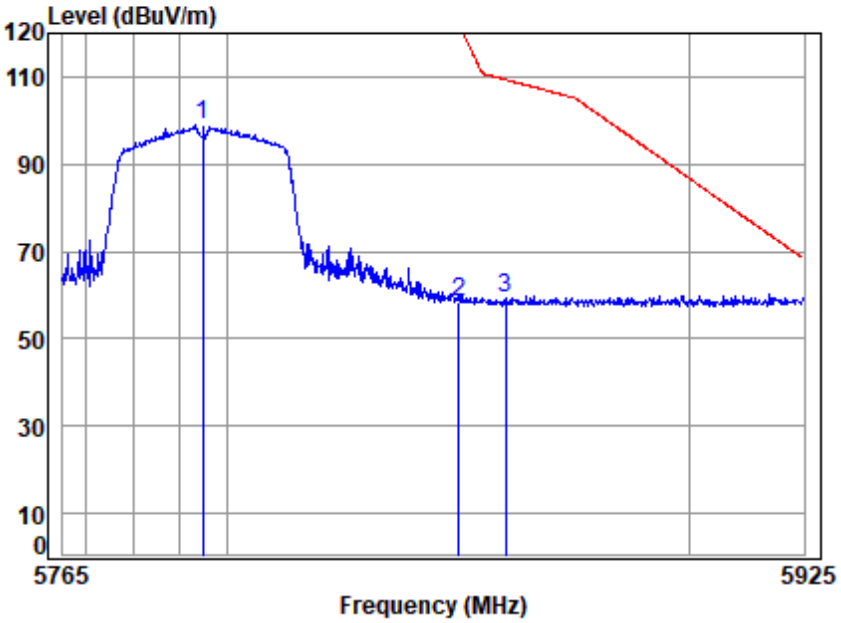
Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 01497WM
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	85.41	99.22	------	------	peak
2	5850.000	10.95	33.60	30.56	44.44	58.43	122.20	-63.77	peak
3 pp	5860.000	10.94	33.58	30.56	45.19	59.15	109.40	-50.25	peak

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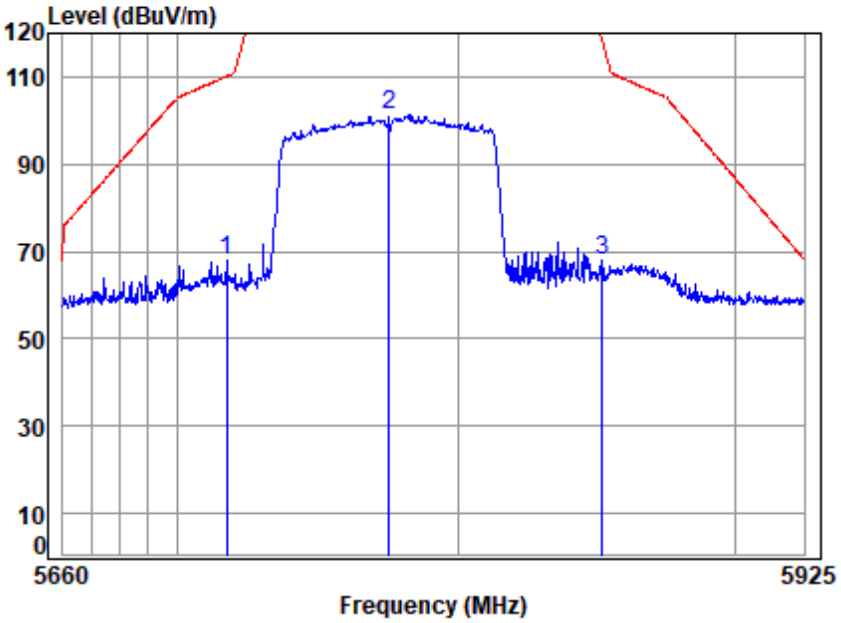
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01497WM
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	5717.526	10.64	33.24	30.61	54.75	68.02	110.11	-42.09	peak
2	5775.000	10.91	33.35	30.59	87.42	101.09	------	------	peak
3	5851.715	10.95	33.60	30.56	53.84	67.83	118.29	-50.46	peak

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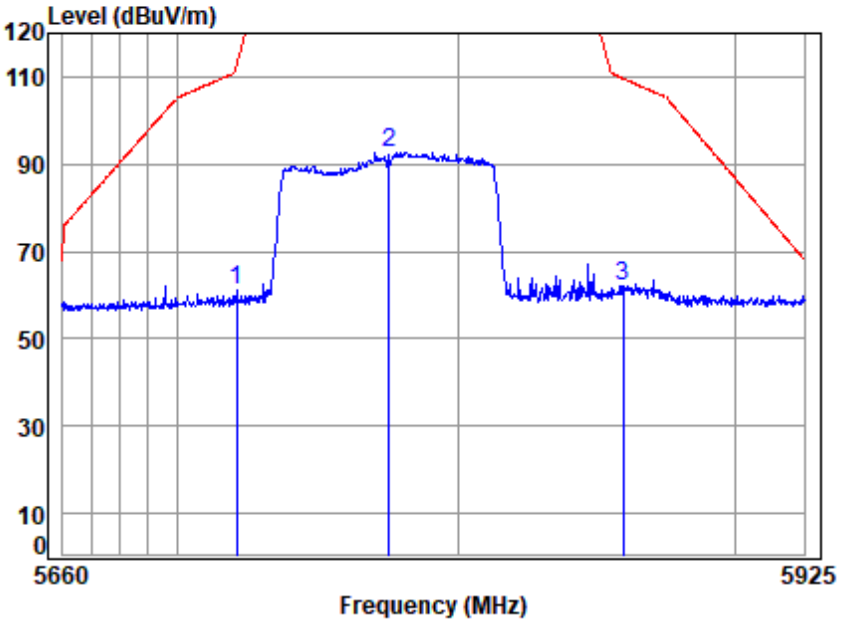
Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 01497WM
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	5720.928	10.66	33.24	30.61	48.00	61.29	112.92	-51.63	peak
2	5775.000	10.91	33.35	30.59	78.98	92.65	------	------	peak
3 pp	5859.217	10.94	33.58	30.56	48.32	62.28	109.62	-47.34	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: 22 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

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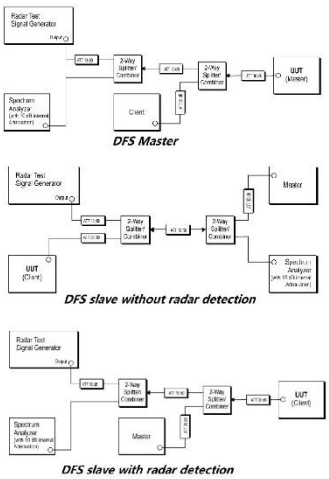
7.6.2 Test Mode Description

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

7.6.3 Test Setup Diagram



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7.6.4 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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7.7 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: 22.8 °C Humidity: 45.4 % 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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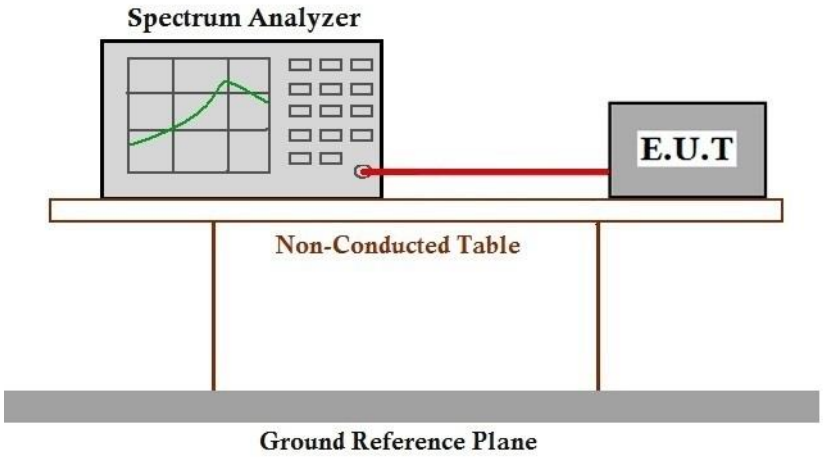
7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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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: 22.9 °C Humidity: 45.6 % 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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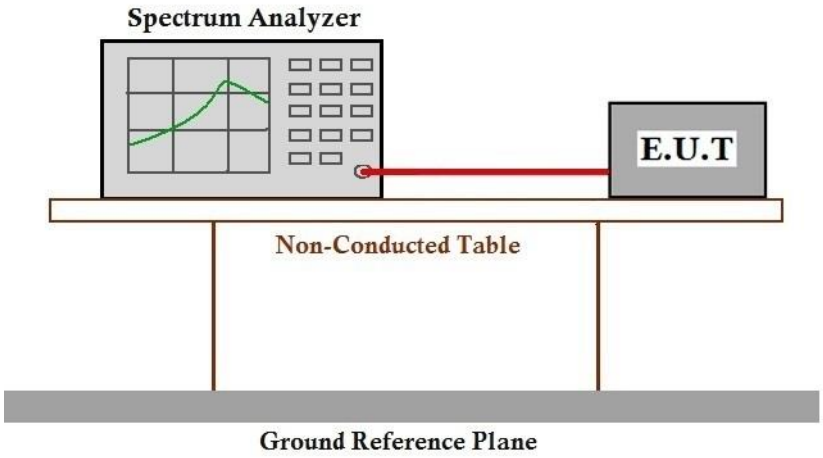
7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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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: 22.9 °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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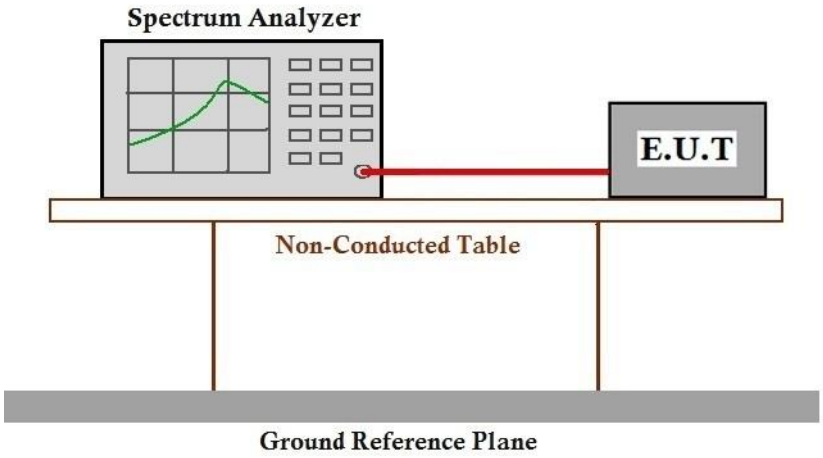
7.9.3 Test Setup Diagram



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

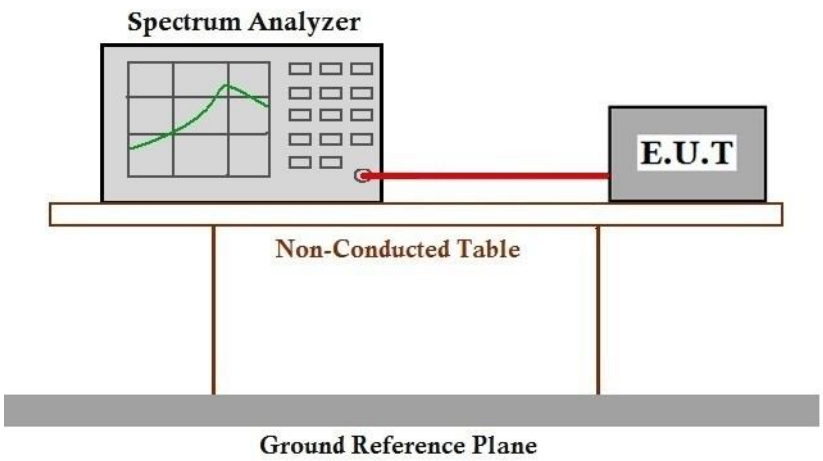
Operating Environment:

Temperature: 22.9 °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

Please Refer to Appendix for Details

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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: 22.9 °C Humidity: 45.6 % 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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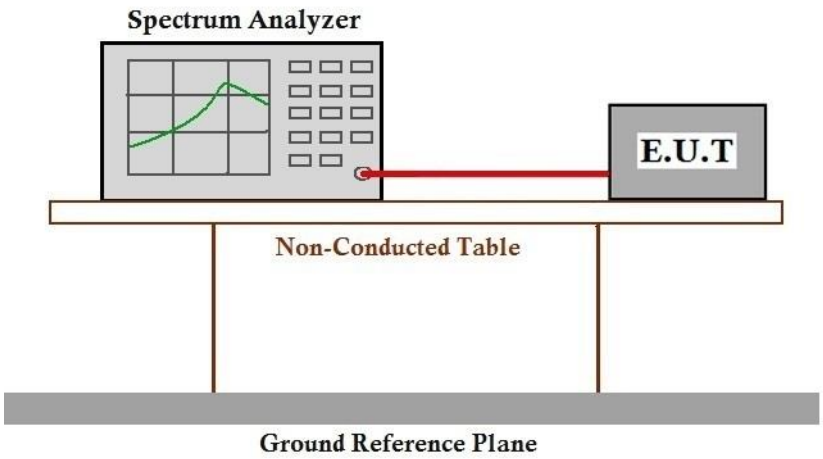
7.11.3 Test Setup Diagram



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 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

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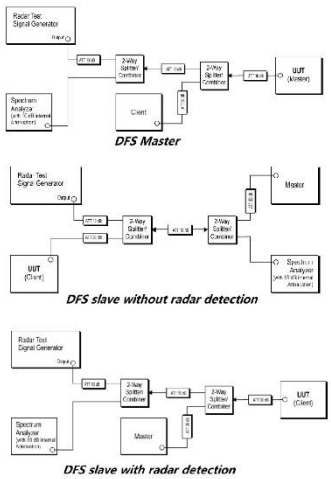
7.13.2 Test Mode Description

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.

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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 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

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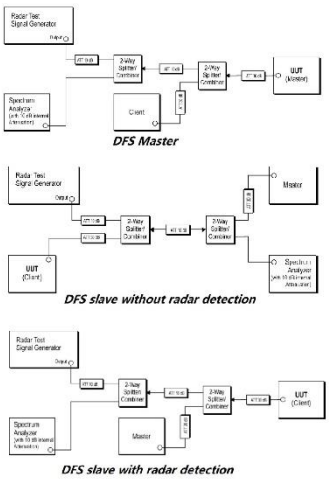
7.14.2 Test Mode Description

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

7.14.3 Test Setup Diagram



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7.14.4 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.

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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 Ant22

1.1.1 Test Result

Ant22							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.386	1.422	97.47	0.11	0.00
		5200	1.386	1.421	97.54	0.11	0.00
		5240	1.386	1.422	97.47	0.11	0.03
		5260	1.386	1.422	97.47	0.11	0.00
		5300	1.386	1.421	97.54	0.11	0.03
		5320	1.386	1.422	97.47	0.11	0.03
		5500	1.386	1.422	97.47	0.11	0.07
		5580	1.386	1.422	97.47	0.11	0.06
		5700	1.385	1.421	97.47	0.11	0.03
		5745	1.386	1.422	97.47	0.11	0.03
		5785	1.386	1.422	97.47	0.11	0.03
		5825	1.386	1.422	97.47	0.11	0.06
		5720	1.386	1.421	97.54	0.11	0.13
802.11n (HT20)	SISO	5180	1.294	1.330	97.29	0.12	0.04
		5200	1.294	1.329	97.37	0.12	0.00
		5240	1.294	1.330	97.29	0.12	0.04
		5260	1.294	1.329	97.37	0.12	0.04
		5300	1.295	1.330	97.37	0.12	0.07
		5320	1.294	1.330	97.29	0.12	0.04
		5500	1.294	1.330	97.29	0.12	0.04
		5580	1.295	1.330	97.37	0.12	0.03
		5700	1.294	1.329	97.37	0.12	0.04
		5745	1.294	1.330	97.29	0.12	0.07
		5785	1.294	1.329	97.37	0.12	0.00
		5825	1.294	1.330	97.29	0.12	0.07
		5720	1.294	1.330	97.29	0.12	0.04
802.11n (HT40)	SISO	5190	0.645	0.680	94.85	0.23	0.00
		5230	0.646	0.680	95.00	0.22	0.00
		5270	0.645	0.680	94.85	0.23	0.03
		5310	0.646	0.680	95.00	0.22	0.00
		5510	0.646	0.680	95.00	0.22	0.03
		5550	0.646	0.680	95.00	0.22	0.00
		5670	0.646	0.680	95.00	0.22	0.00

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		5755	0.646	0.680	95.00	0.22	0.00
		5795	0.645	0.679	94.99	0.22	0.03
		5710	0.645	0.680	94.85	0.23	0.03
802.11ac (VHT20)	SISO	5180	1.306	1.342	97.32	0.12	0.03
		5200	1.306	1.342	97.32	0.12	0.04
		5240	1.306	1.342	97.32	0.12	0.03
		5260	1.306	1.341	97.39	0.11	0.00
		5300	1.306	1.342	97.32	0.12	0.03
		5320	1.306	1.342	97.32	0.12	0.03
		5500	1.306	1.342	97.32	0.12	0.07
		5580	1.306	1.342	97.32	0.12	0.10
		5700	1.306	1.342	97.32	0.12	0.03
		5745	1.306	1.342	97.32	0.12	0.07
		5785	1.306	1.342	97.32	0.12	0.03
		5825	1.307	1.342	97.39	0.11	0.03
		5720	1.306	1.342	97.32	0.12	0.07
802.11ac (VHT40)	SISO	5190	0.649	0.684	94.88	0.23	0.03
		5230	0.649	0.684	94.88	0.23	0.03
		5270	0.650	0.684	95.03	0.22	0.00
		5310	0.649	0.684	94.88	0.23	0.00
		5510	0.649	0.683	95.02	0.22	0.00
		5550	0.649	0.684	94.88	0.23	0.03
		5670	0.650	0.684	95.03	0.22	0.00
		5755	0.649	0.684	94.88	0.23	0.00
		5795	0.649	0.684	94.88	0.23	0.03
		5710	0.650	0.684	95.03	0.22	0.03
802.11ac (VHT80)	SISO	5210	0.324	0.359	90.25	0.45	0.04
		5290	0.324	0.359	90.25	0.45	0.00
		5530	0.324	0.358	90.50	0.43	0.04
		5610	0.324	0.359	90.25	0.45	0.04
		5775	0.324	0.359	90.25	0.45	0.04
		5690	0.324	0.359	90.25	0.45	0.04

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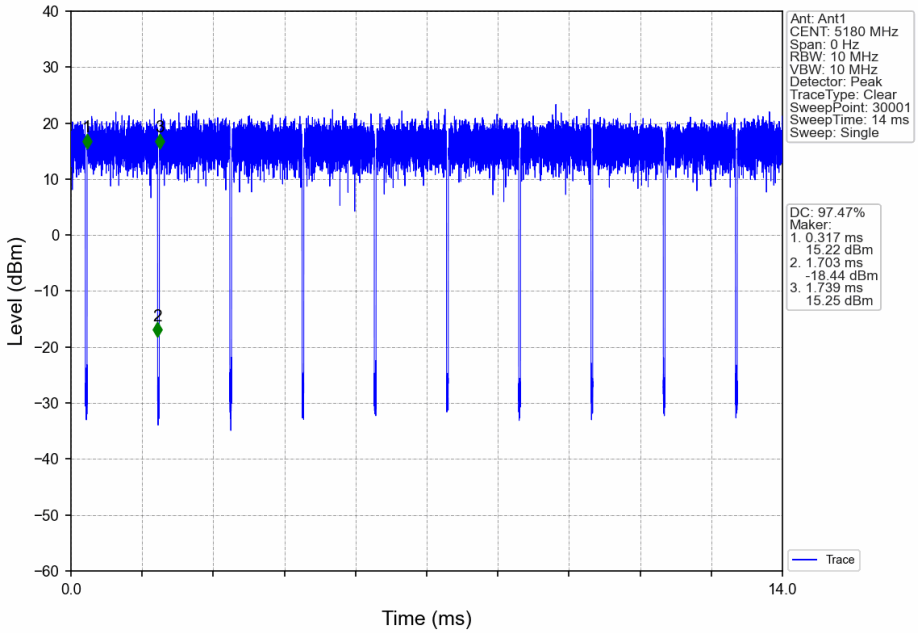
1.1.2 Test Graph

802.11a_LCH_5180MHz_Ant22_NTNV



802.11a_MCH_5200MHz_Ant22_NTNV

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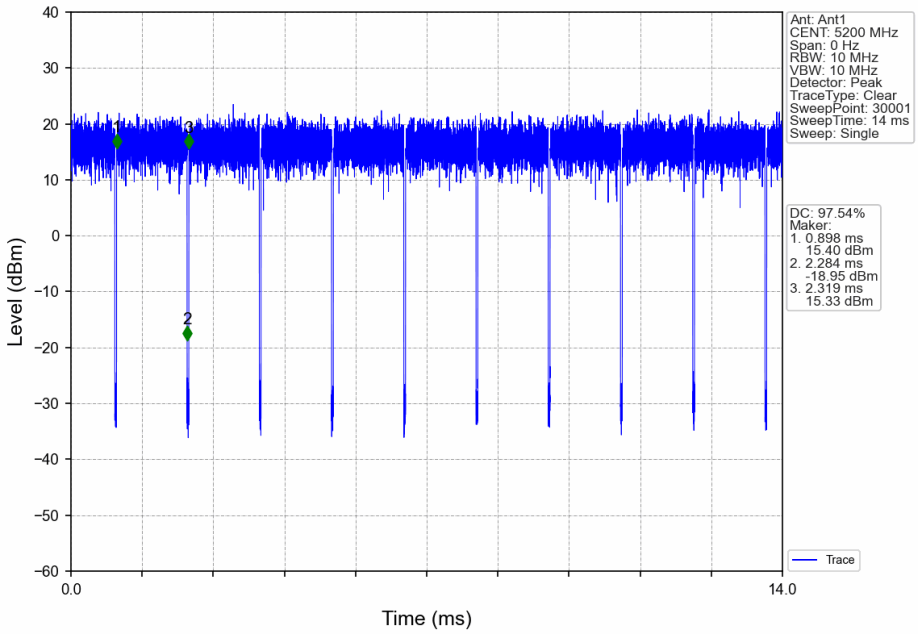

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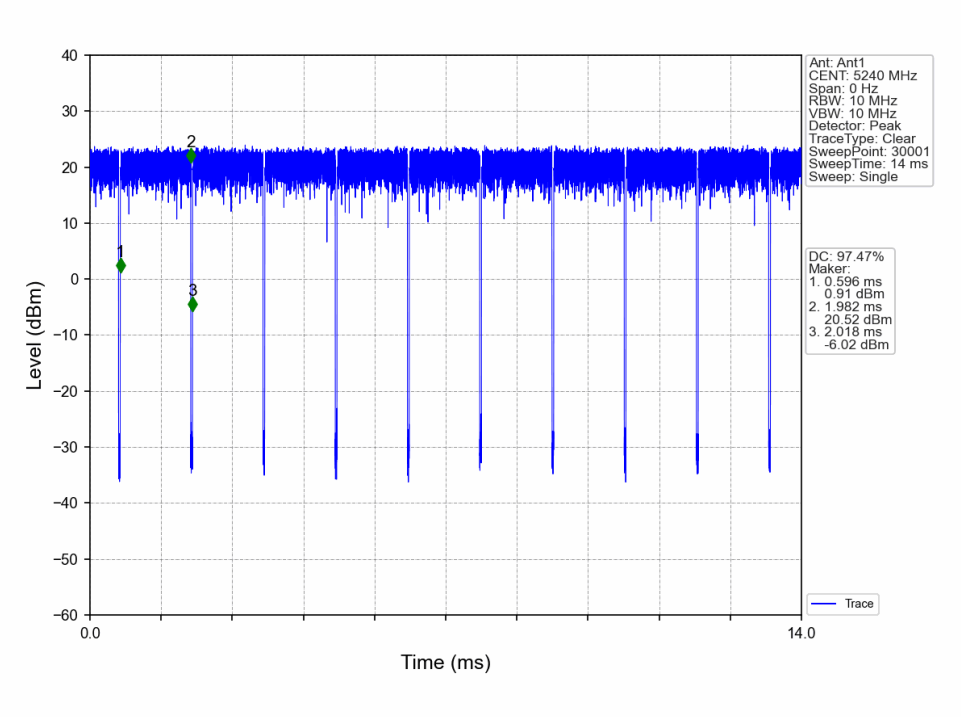

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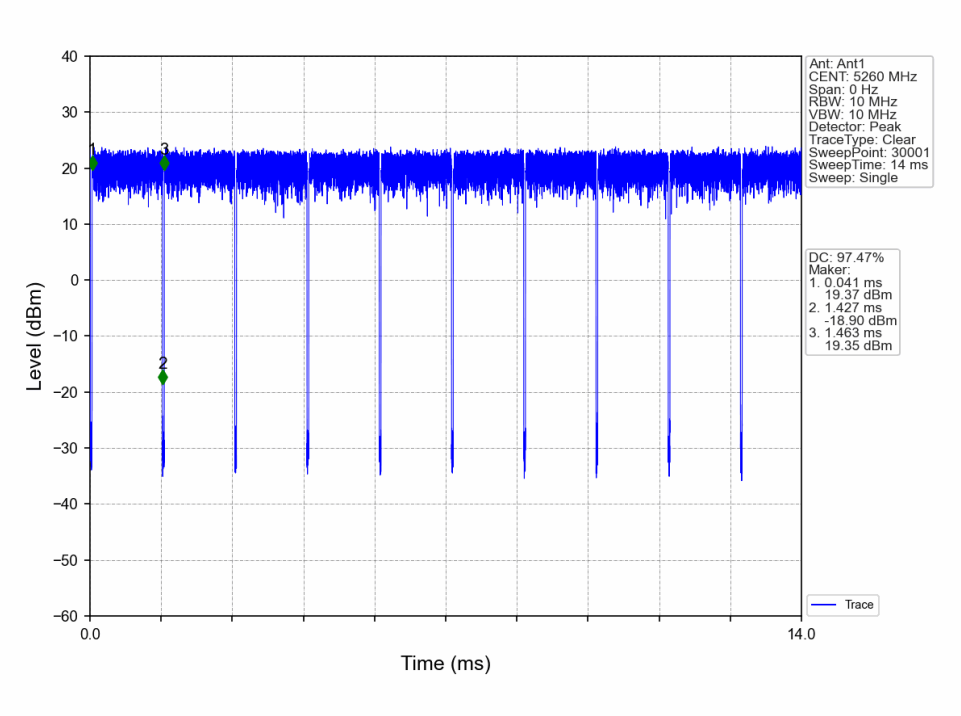

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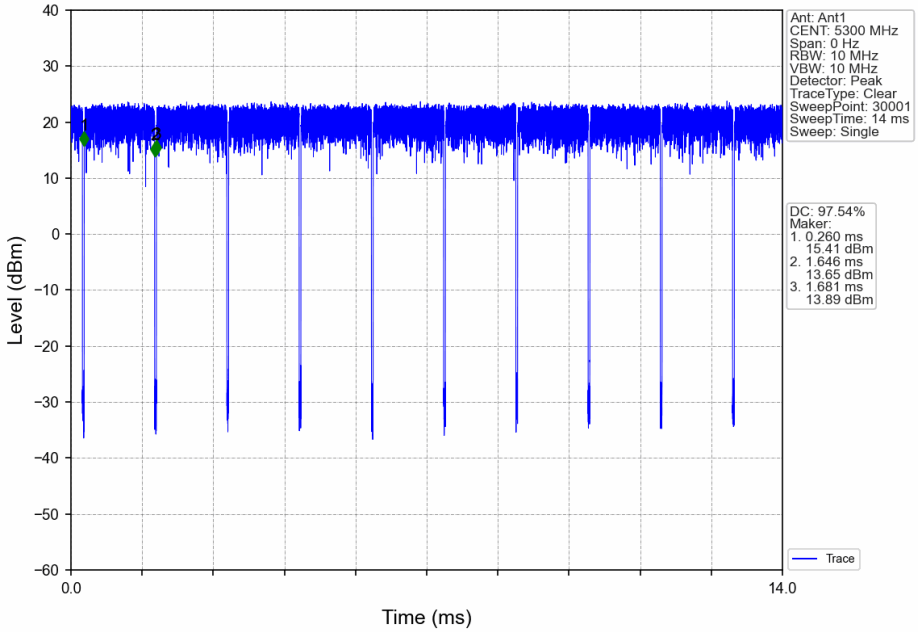
802.11a_MCH_5300MHz_Ant22_NTNV



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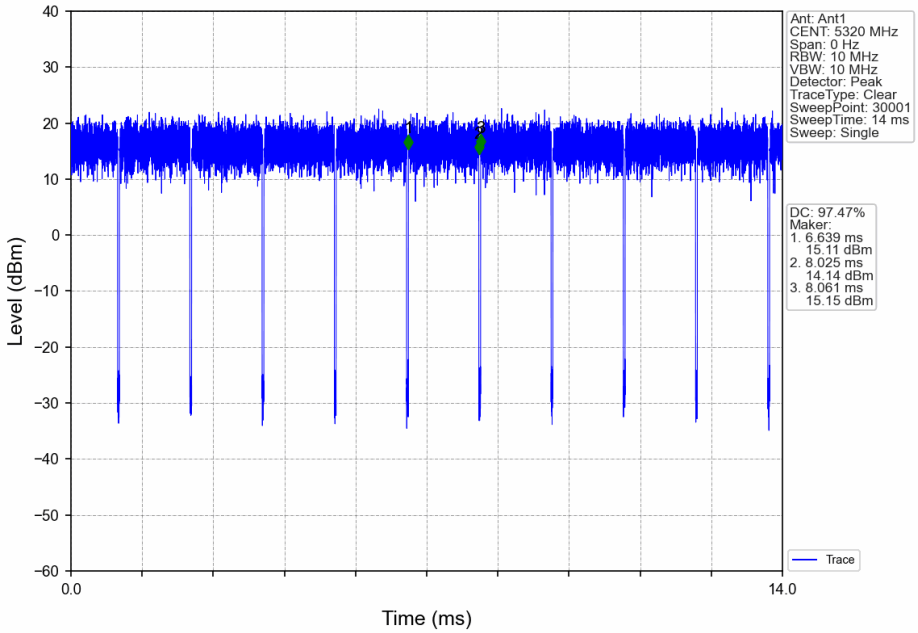

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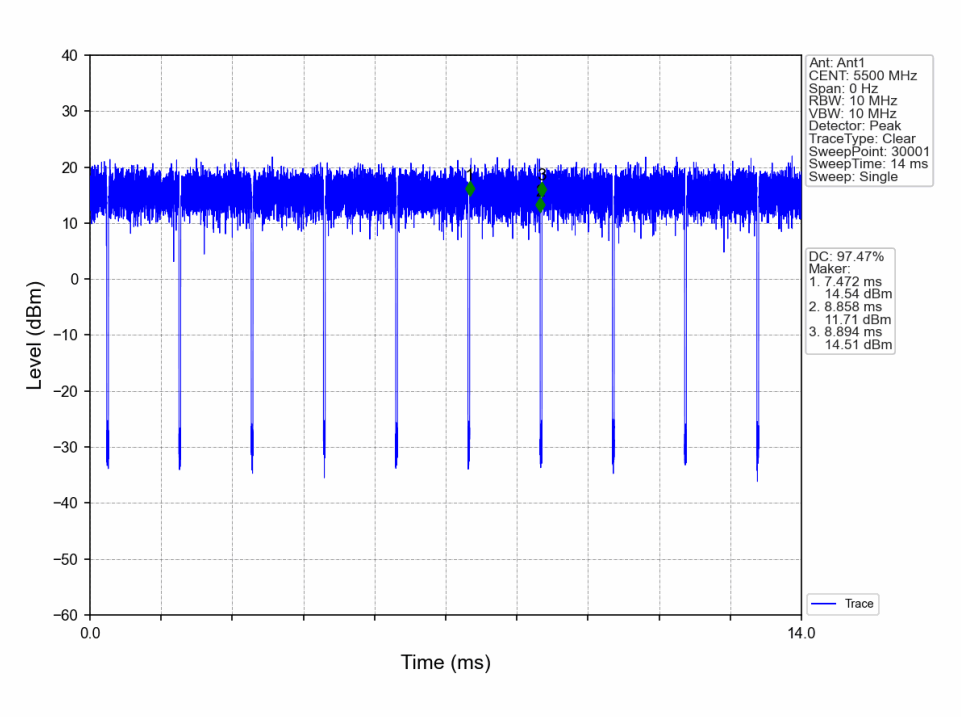
802.11a_LCH_5500MHz_Ant22_NTNV



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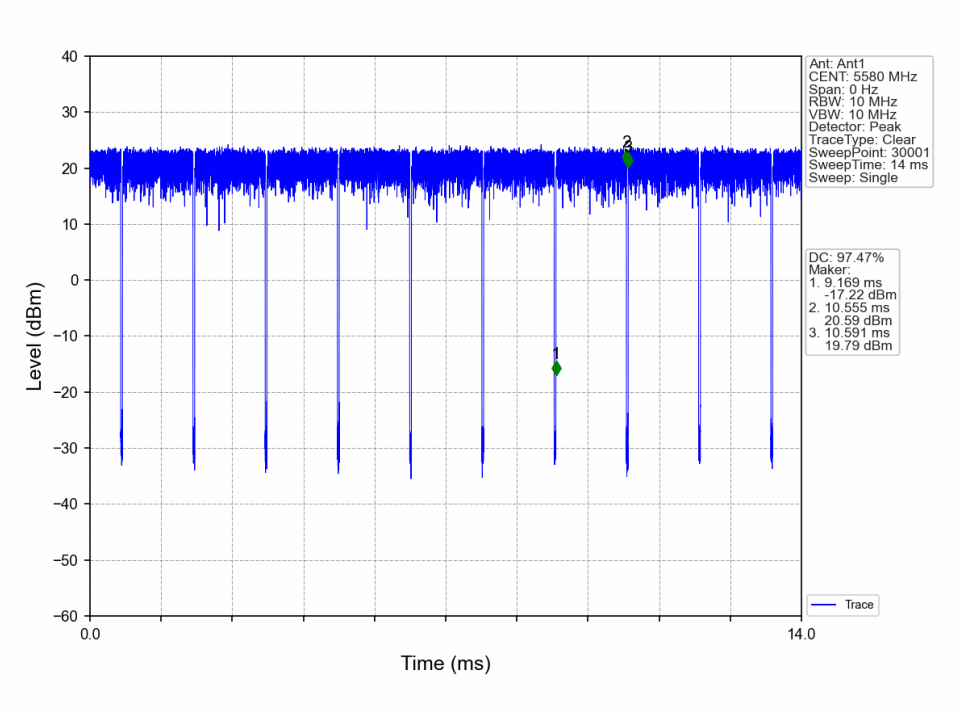

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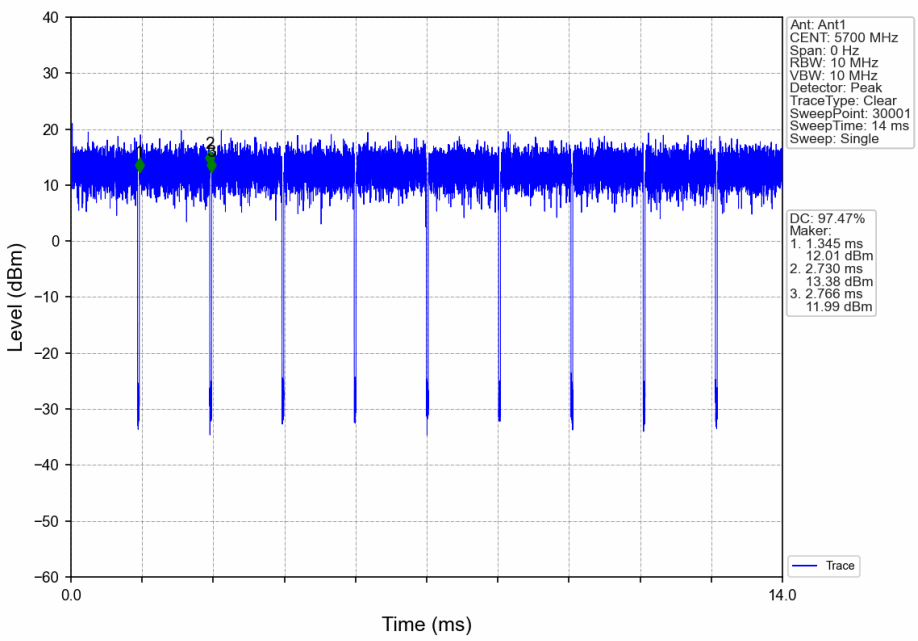
802.11a_HCH_5700MHz_Ant22_NTNV



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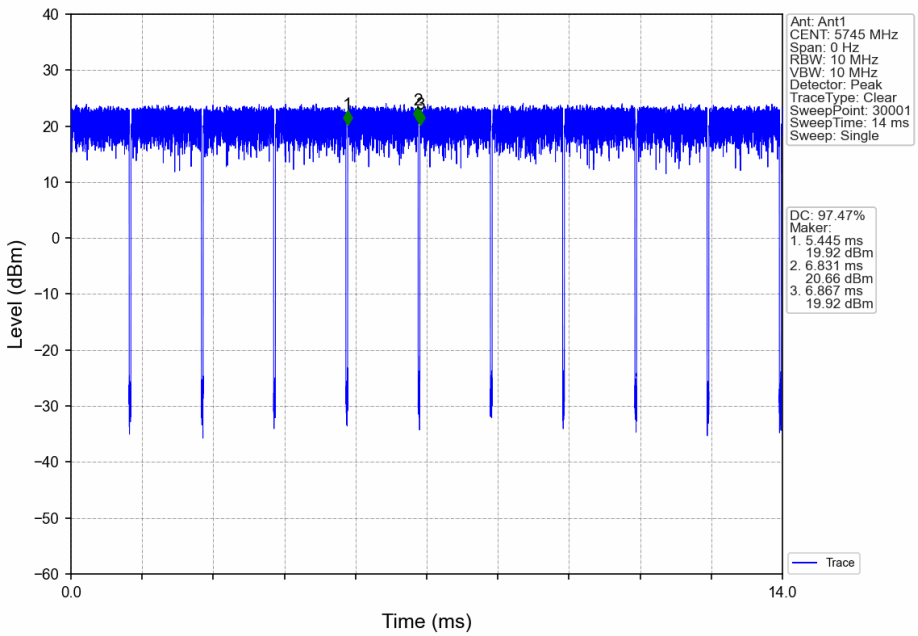

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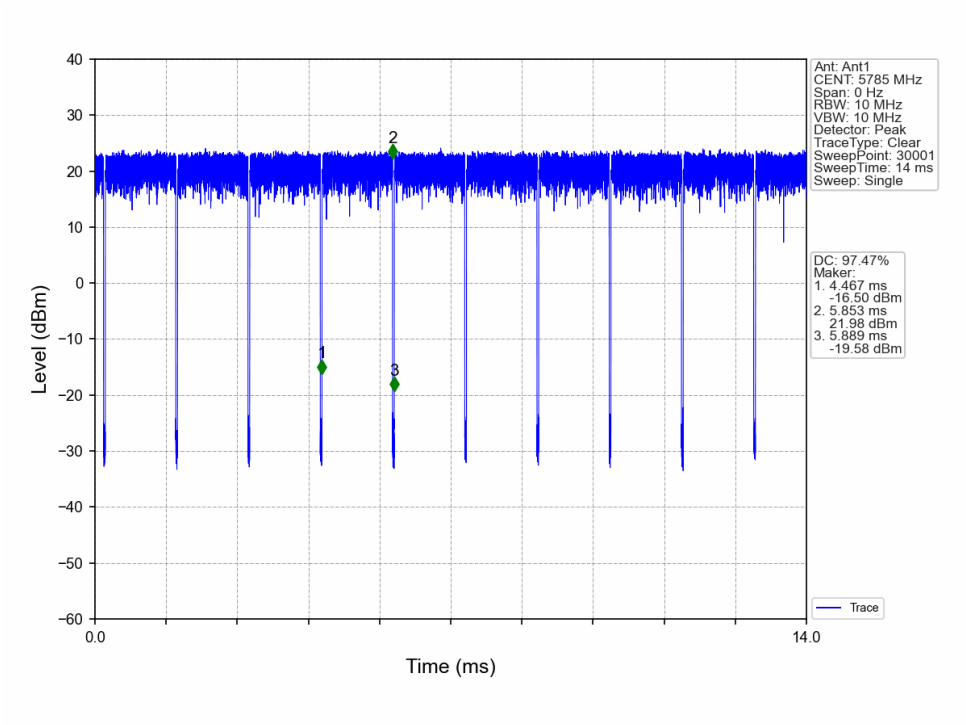
802.11a_MCH_5785MHz_Ant22_NTNV



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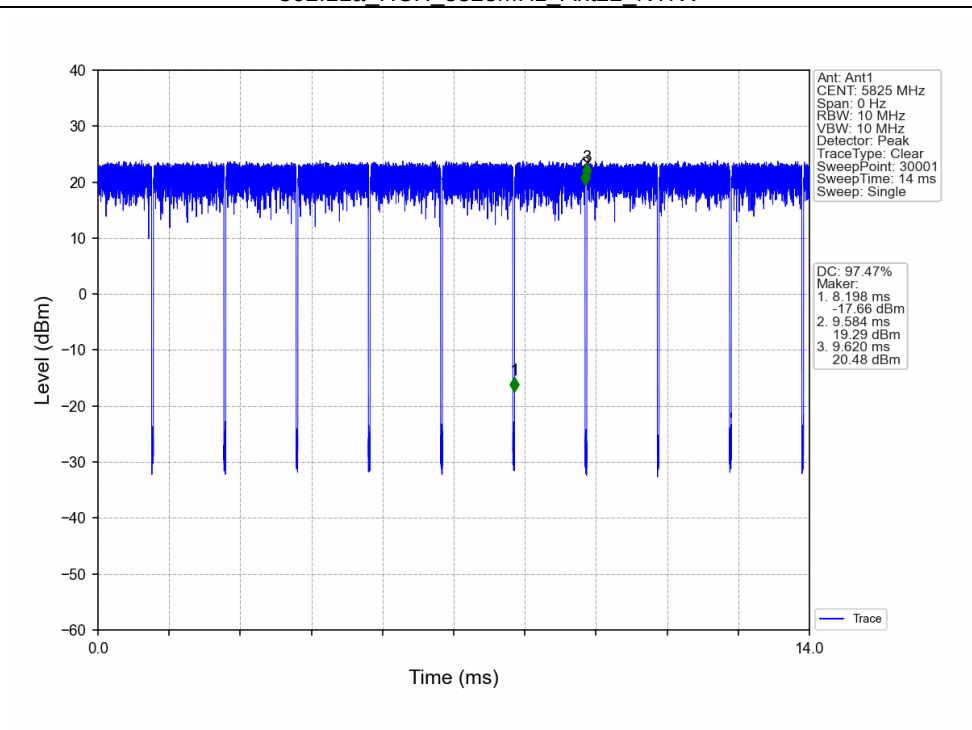

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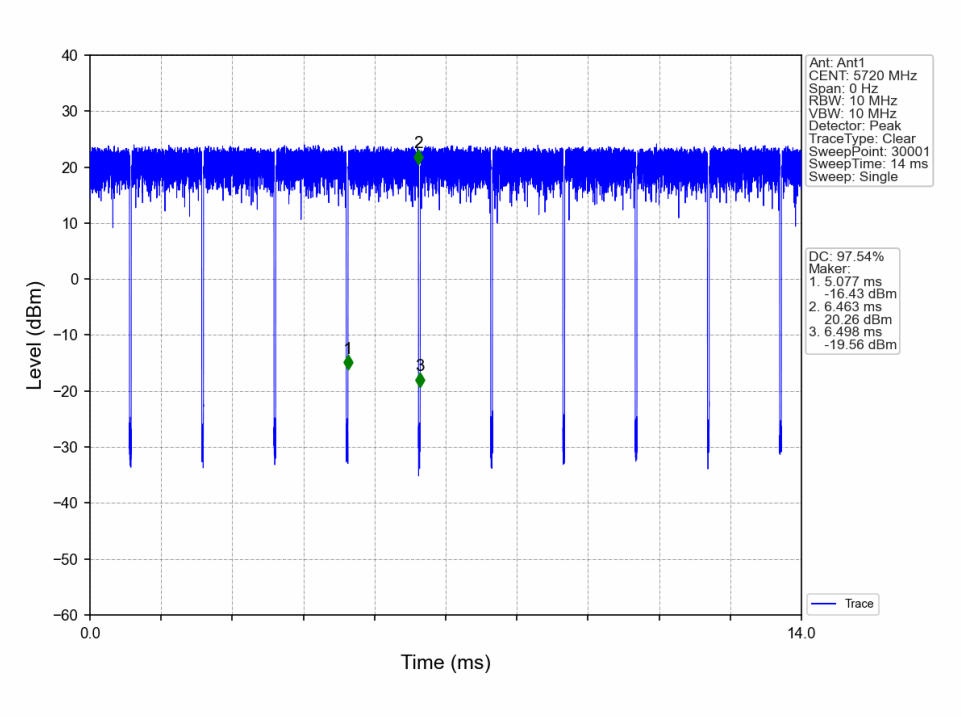
802.11a_HCH_5720MHz_Ant22_NTNV



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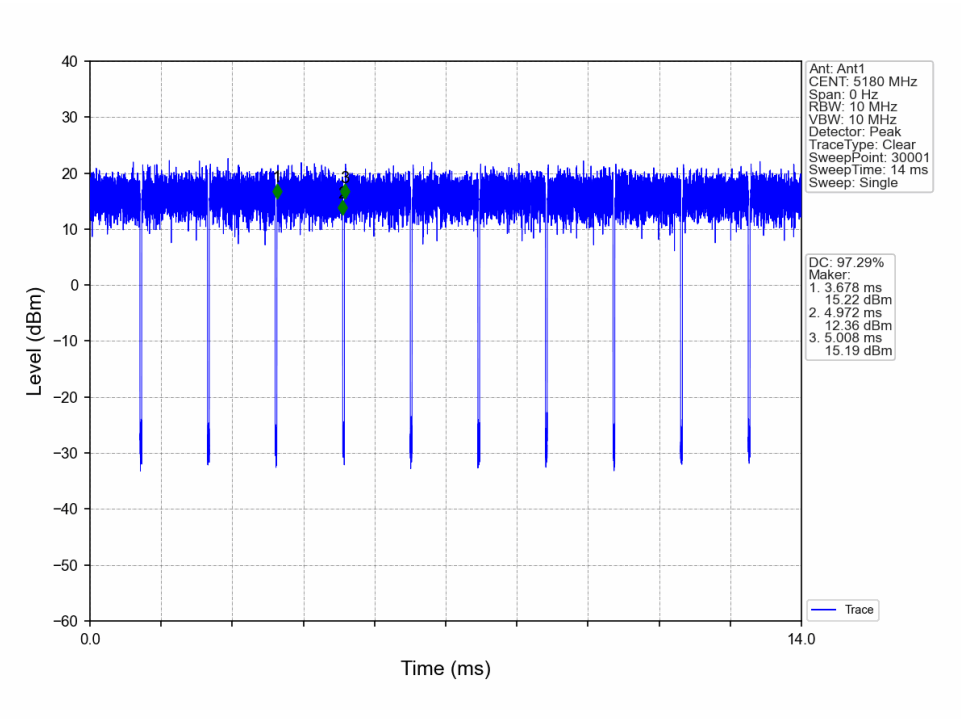

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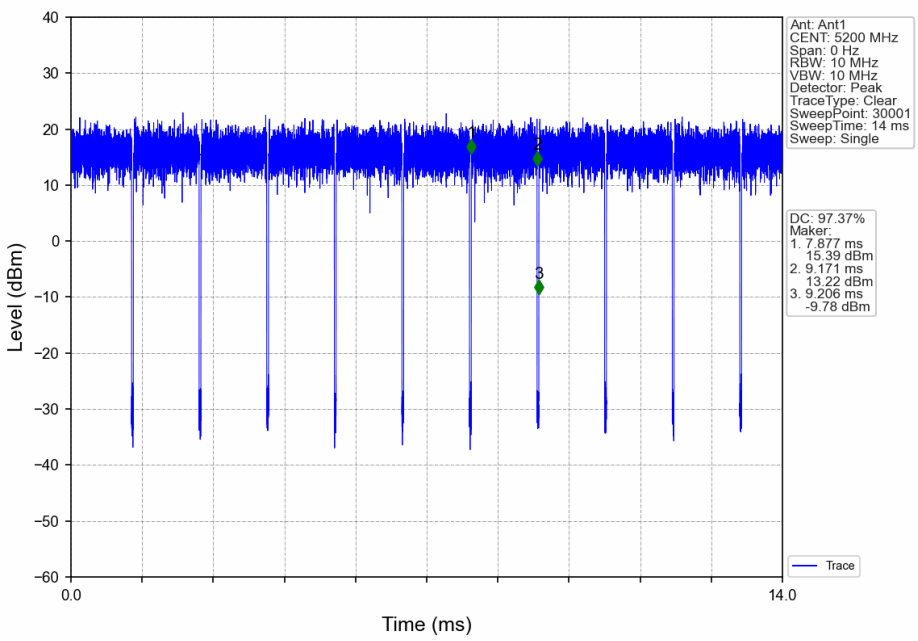
802.11n(HT20)_MCH_5200MHz_Ant22_NTNV



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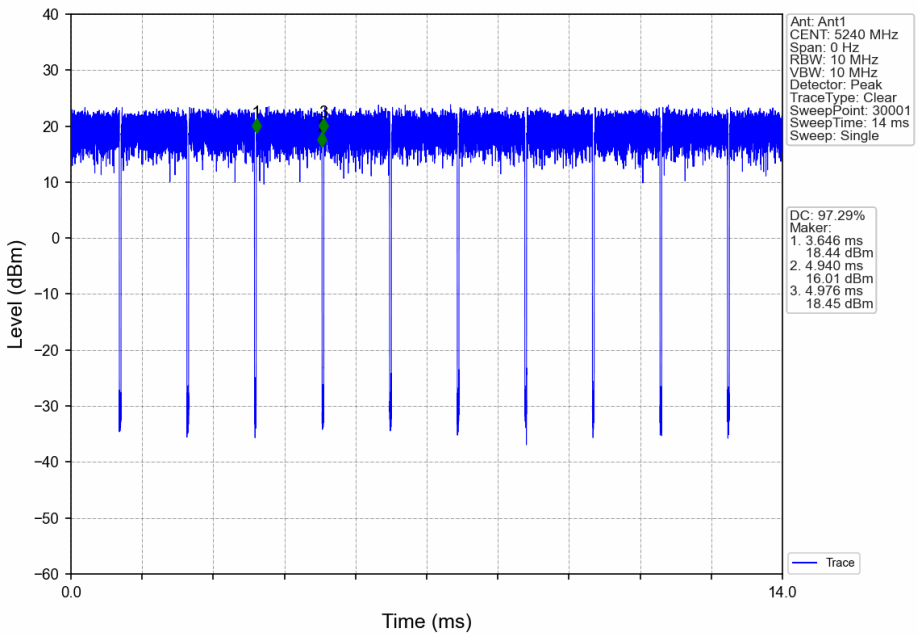

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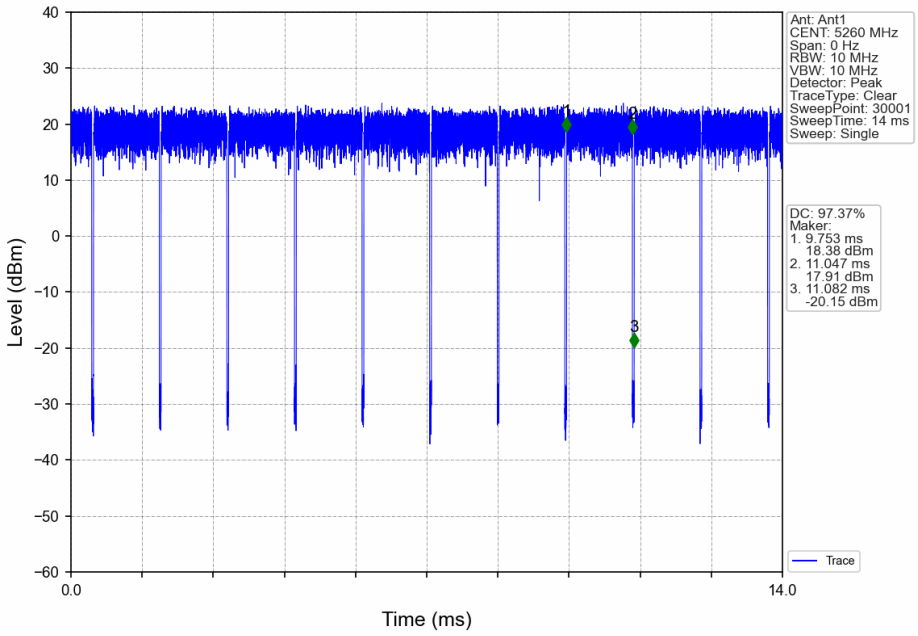
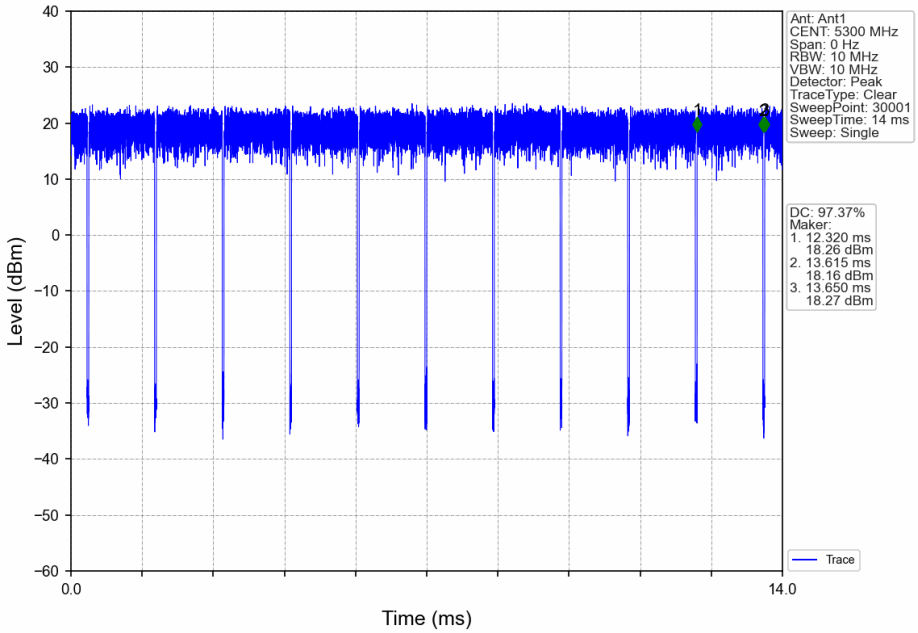
802.11n(HT20)_LCH_5260MHz_Ant22_NTNV



802.11n(HT20)_MCH_5300MHz_Ant22_NTNV



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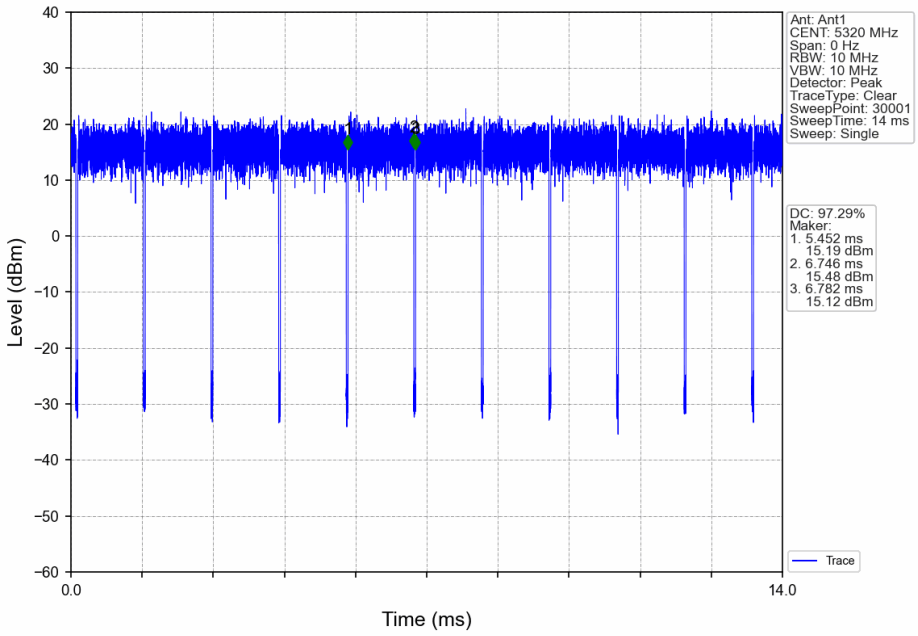
802.11n(HT20)_HCH_5320MHz_Ant22_NTNV



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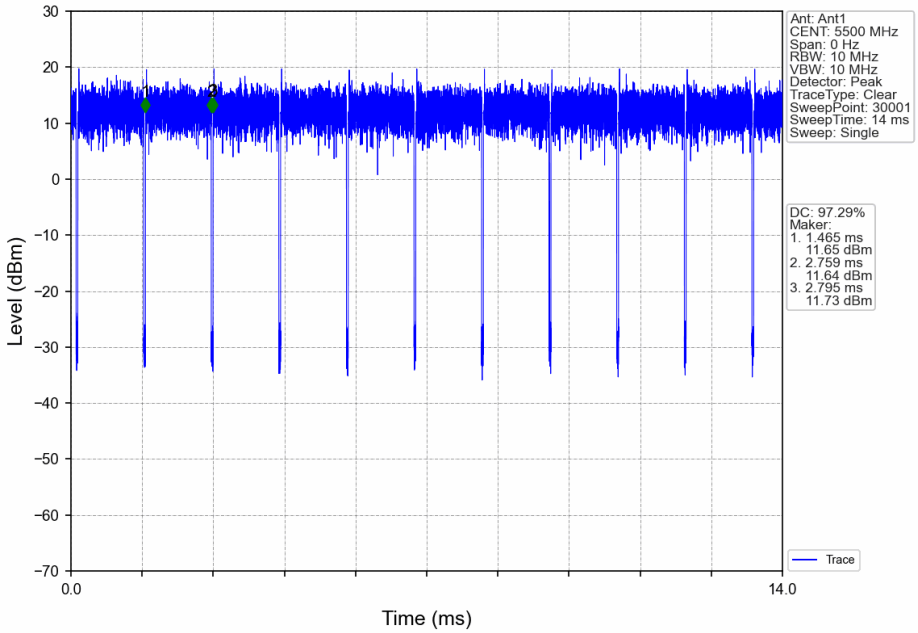

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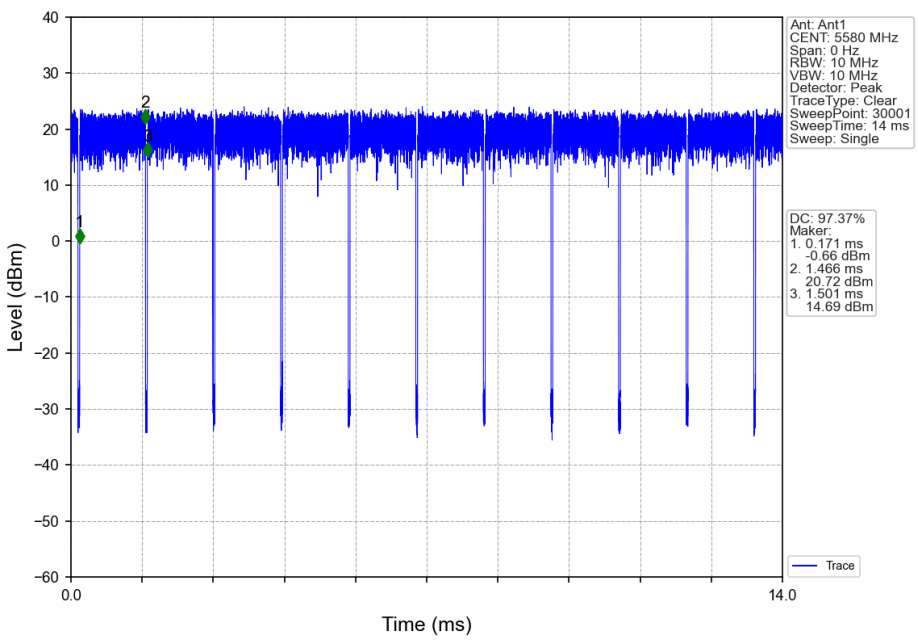

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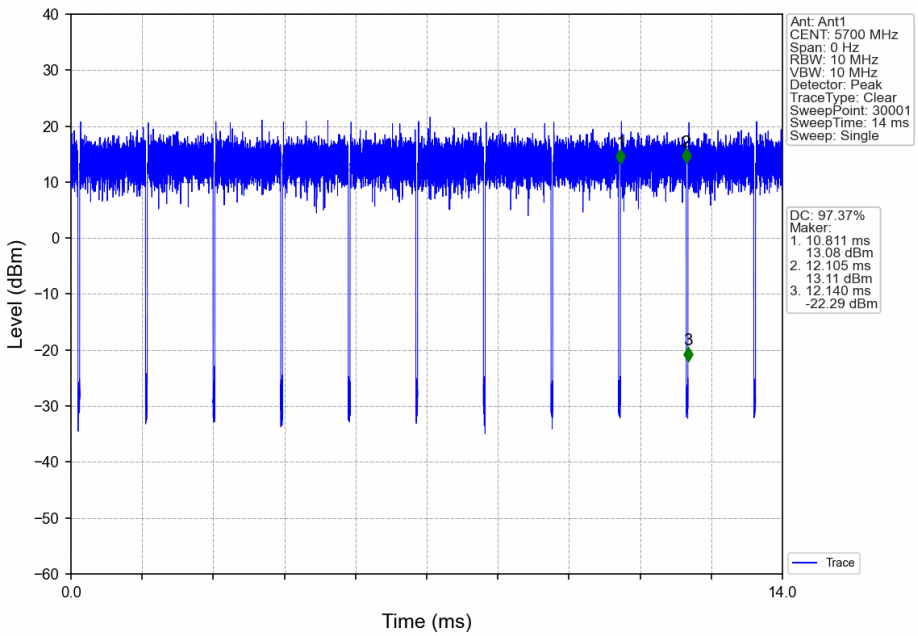

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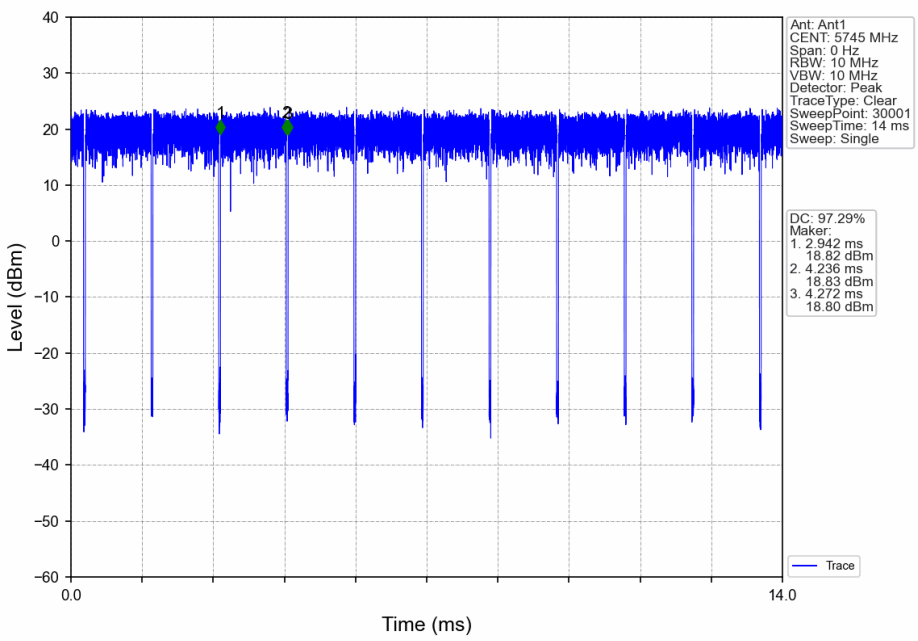
802.11n(HT20)_LCH_5745MHz_Ant22_NTNV



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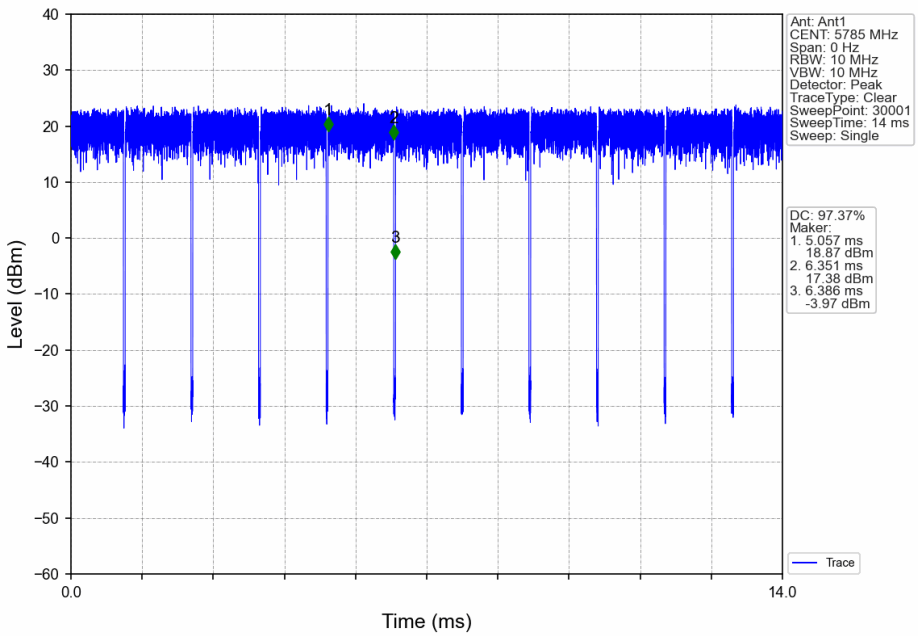

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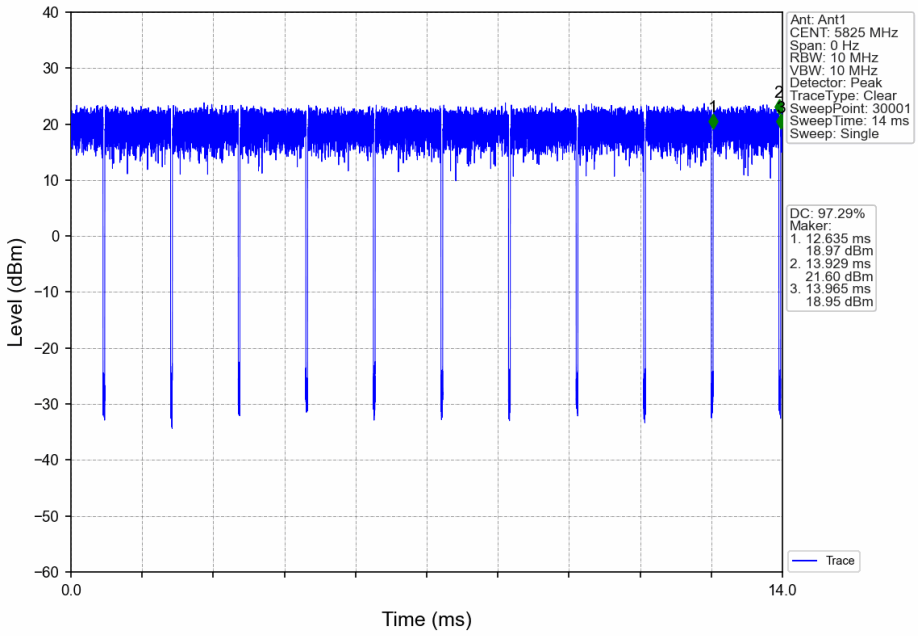
802.11n(HT20)_HCH_5825MHz_Ant22_NTNV



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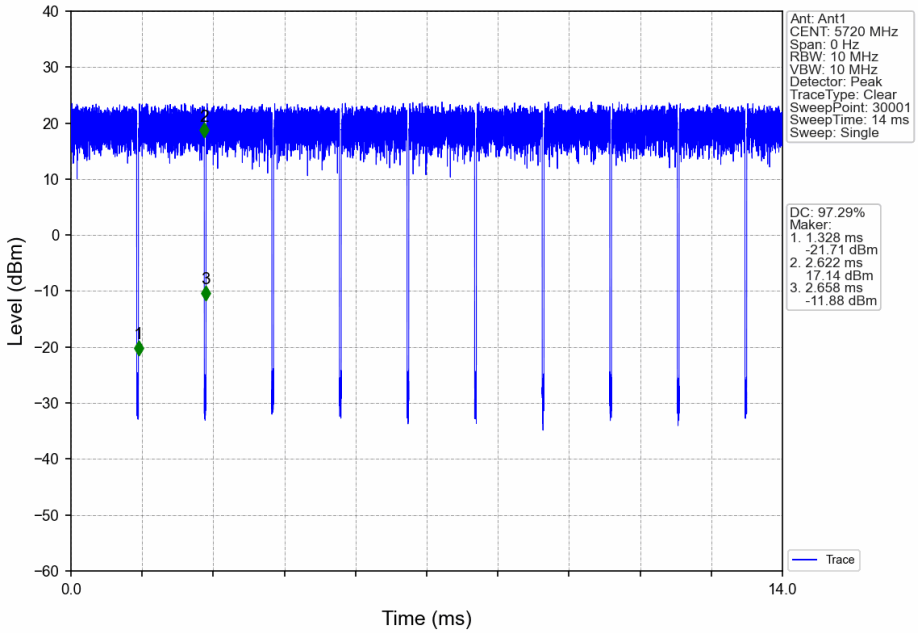

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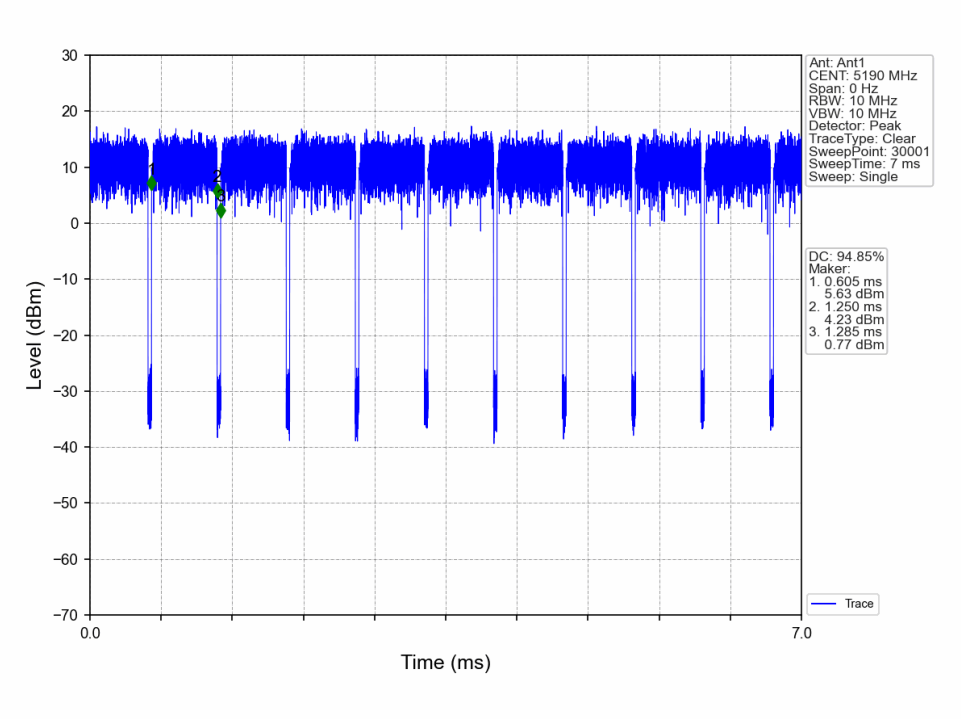
802.11n(HT40)_LCH_5190MHz_Ant22_NTNV



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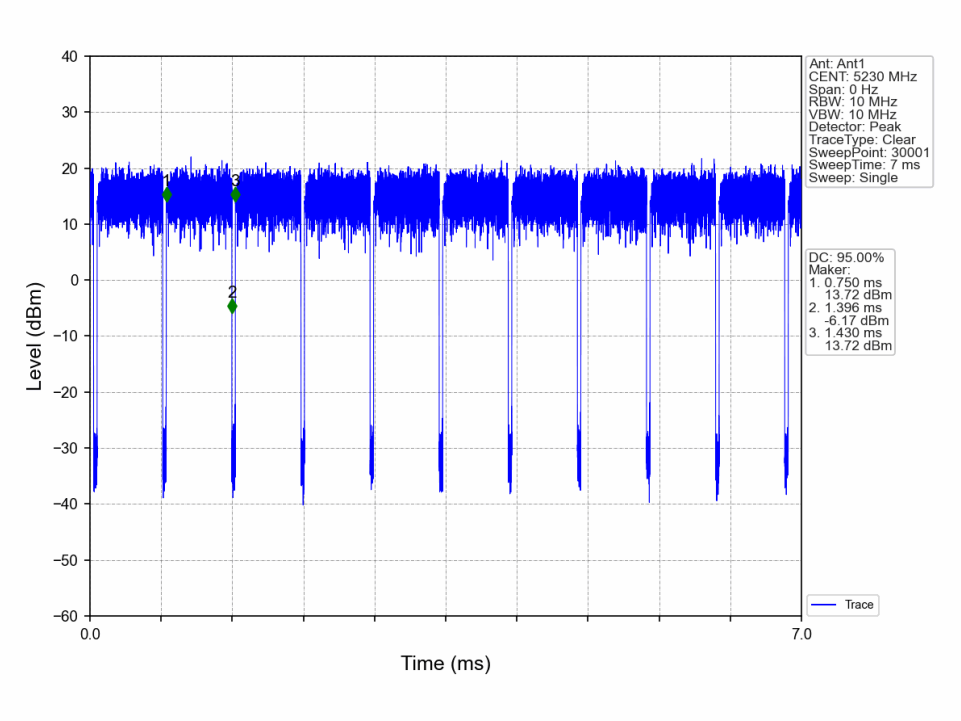

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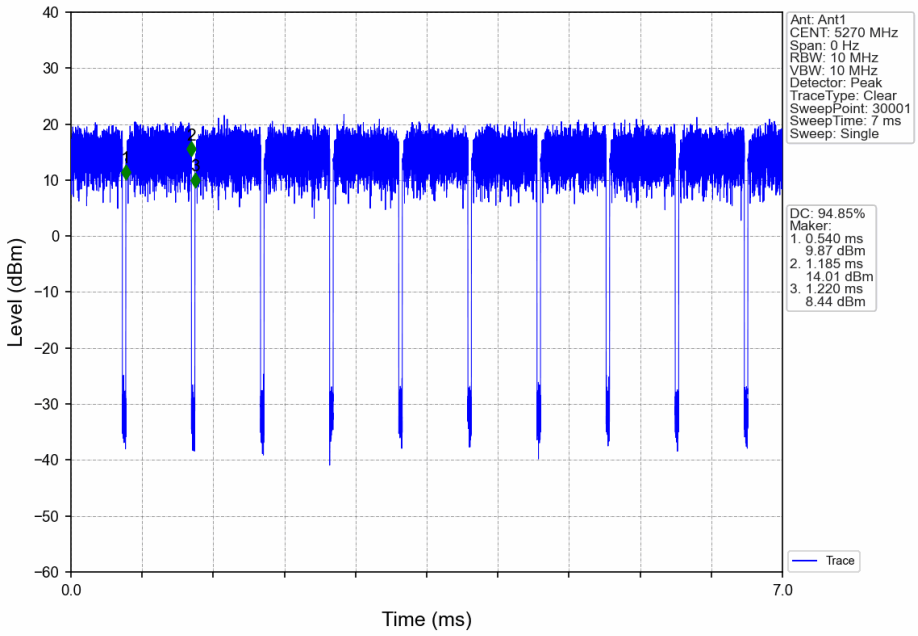
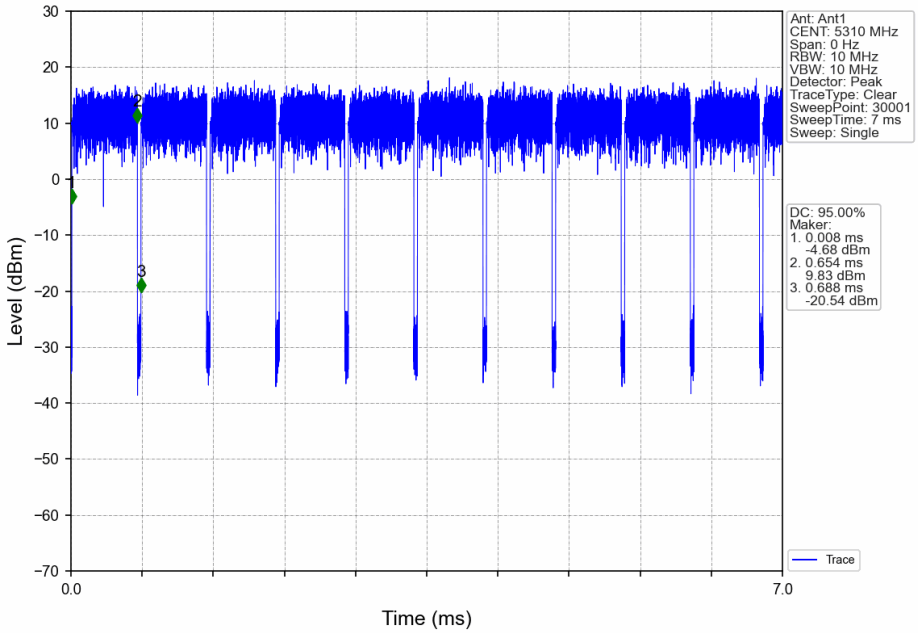
802.11n(HT40)_LCH_5270MHz_Ant22_NTNV



802.11n(HT40)_HCH_5310MHz_Ant22_NTNV



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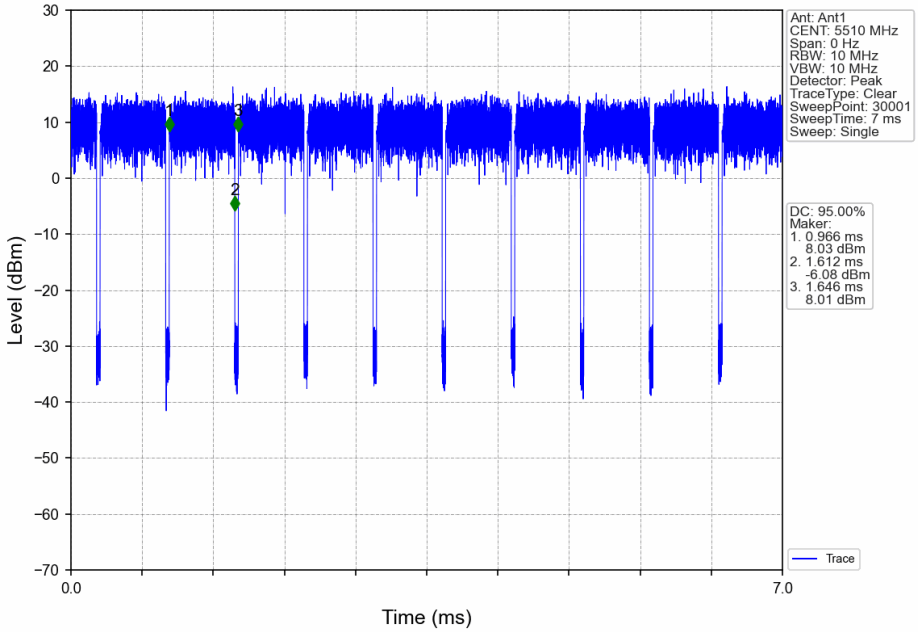
802.11n(HT40)_LCH_5510MHz_Ant22_NTNV



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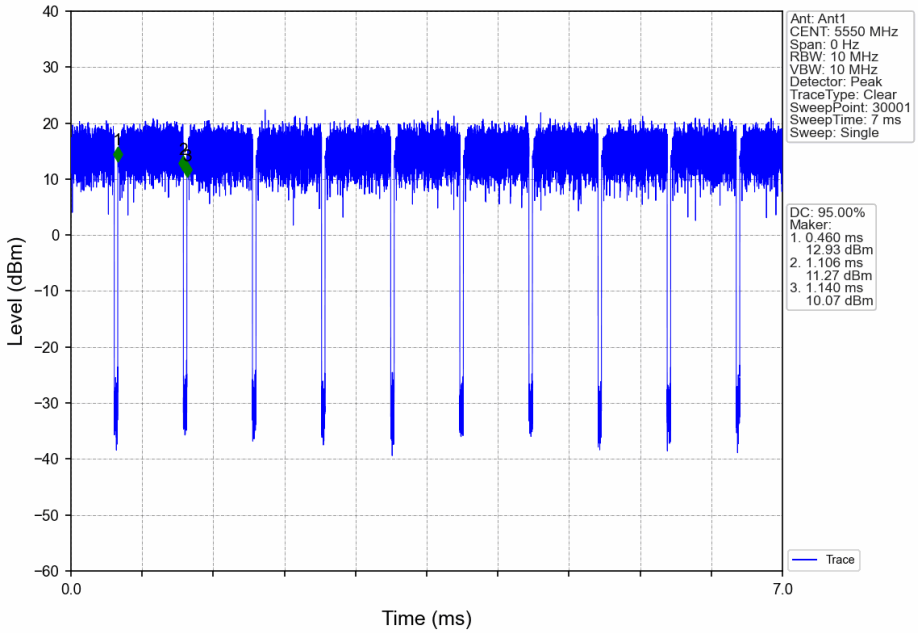

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