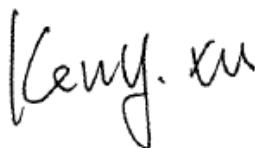


**TEST REPORT**

<b>Application No.:</b>	SZCR2504001232AT
<b>Applicant:</b>	ZK Technology LLC DBA ZK Teco
<b>Address of Applicant:</b>	200 Centennial Ave, Suite 211 New Jersey 08854 United States
<b>Manufacturer:</b>	ZK Technology LLC DBA ZK Teco
<b>Address of Manufacturer:</b>	200 Centennial Ave, Suite 211 New Jersey 08854 United States
<b>Equipment Under Test (EUT):</b>	
<b>EUT Name:</b>	DATA COLLECTION TERMINAL
<b>Model No.:</b>	ULTIMA 7P
<b>Trade Mark:</b>	
<b>FCC ID:</b>	2AUC7-ULT7PG2
<b>Standard(s) :</b>	47 CFR Part 15, Subpart E 15.407
<b>Date of Receipt:</b>	2025-04-01
<b>Date of Test:</b>	2025-04-03 to 2025-04-22
<b>Date of Issue:</b>	2025-04-28
<b>Test Result:</b>	<b>Pass*</b>

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



Keny Xu

EMC Laboratory Manager

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

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250400123203

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-04-28		Original

Authorized for issue by:			
		<b>Edison Li/Project Engineer</b>	
		<b>Eric Fu/Reviewer</b>	



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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		ANSI C63.10 (2013) Section 12.3	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Below 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Duty Cycle		ANSI C63.10 (2013) Section 12.2	ANSI C63.10 (2013) Section 12.2	Pass
99% Bandwidth		ANSI C63.10 (2013) Section 12.4.2	ANSI C63.10 (2013) Section 12.4.2	Pass
26dB Emission bandwidth		ANSI C63.10 (2013) Section 12.4.1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		ANSI C63.10 (2013) Section 6.9.2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Peak Power spectrum density		ANSI C63.10 (2013) Section 12.5	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)	Pass
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
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.

Power supply:	Powered by Lithium-ion Polymer Battery Model: 786166P Capacity: 7.4V, 7600mAh, 56.24Wh Charging by DC 12V from external power supply
	Switching Adapter Model: FJ-SW20261203000 Input: AC 100-240V, 50/60Hz, 1.5A Max Output: DC 12.0V, 3.0A, 36.0W
Cable(s):	DC Cable from adapter 1.8m unshielded with one core AC Cable from adapter 1.5m unshielded
Operation Frequency / Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels); U-NII-2A: 5260-5320MHz (4 Channels); U-NII-2C: 5500-5700MHz (11 Channels); U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency / Number of channels (40MHz):	U-NII-1: 5190-5230MHz (2 Channels); U-NII-2A: 5270-5310MHz (2 Channels); U-NII-2C: 5510-5670MHz (5 Channels); U-NII-3: 5755-5795MHz (2 Channels)
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Bandwidth:	802.11a/n/ac 20: 20MHz 802.11n/ac 40: 40MHz 802.11ac 80: 80MHz
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	FPC Antenna
Antenna Gain:	2.72dBi

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### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
RF Cable	SGS	N/A(cable loss:0.8dB)	N/A

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### 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 which fall in the restricted bands	± 6.0dB (below 1GHz); ± 4.6dB (above 1GHz);
Radiated Emissions (Below 1GHz)	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions (Above 1GHz)	± 4.6dB (1-18GHz);± 4.8dB (18-40GHz)
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	ESR	SZ-WRG-M-047	2025-01-08	2026-01-07
Matching Pad	N/A	N/A	SEM021-23	2025-03-19	2026-03-18
Matching Pad	N/A	N/A	SEM021-24	2025-03-19	2026-03-18
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14
LISN	ETS-LINDGREN	3816/2	SEM007-02	2025-03-03	2026-03-02

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2025-03-04	2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2025-03-04	2026-03-03
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2025-03-04	2026-03-03
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2024-09-14	2025-09-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-03	2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25

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Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05

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	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2025-03-21	2026-03-20



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<b>DFS</b>						
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Inventory No.</b>	<b>Cal Date</b>	<b>Cal Due Date</b>	
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2025/3/3	2026/3/2	
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2025/3/3	2026/3/2	
Measurement Software	KEYSIGHT	Signal Studio for DFS Radar Profiles V2.2.0.0	N/A	N/A	N/A	
Measurement Software	Agilent	ISMonitor10	N/A	N/A	N/A	
MXG Vector Signal Generator	Agilent	N5182A	SEM006-21	2025/3/3	2026/3/2	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-22	2025/3/4	2026/3/3	

<b>General used equipment</b>						
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Inventory No.</b>	<b>Cal Date</b>	<b>Cal Due Date</b>	
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23	
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23	
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02	

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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

#### 6.1.2 Conclusion

Standard Requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.72dBi.

Antenna location: Refer to internal photo.

### 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

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 &amp; Subpart E 15.407 b(9)

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dB $\mu$ V)	
	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: 22.0 °C Humidity: 49.7 % RH Atmospheric Pressure: 1020 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	15	Charge + TX mode (U-NII-1) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	16	Charge + TX mode (U-NII-2A) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	17	Charge + TX mode (U-NII-2C) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	18	Charge + TX mode (U-NII-3) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.

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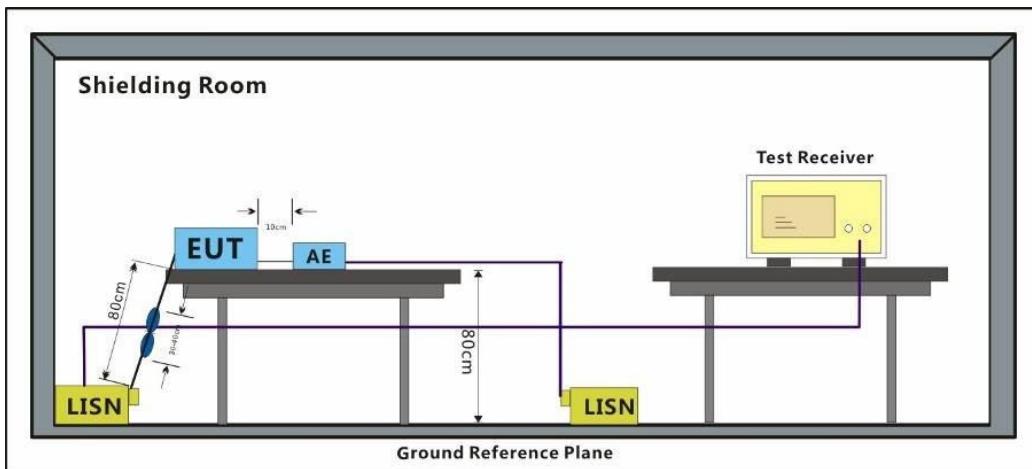
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### 7.1.3 Test Setup Diagram



### 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/50 $\mu$ H + 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 1: Level=Read Level+ Cable Loss+ LISN Factor

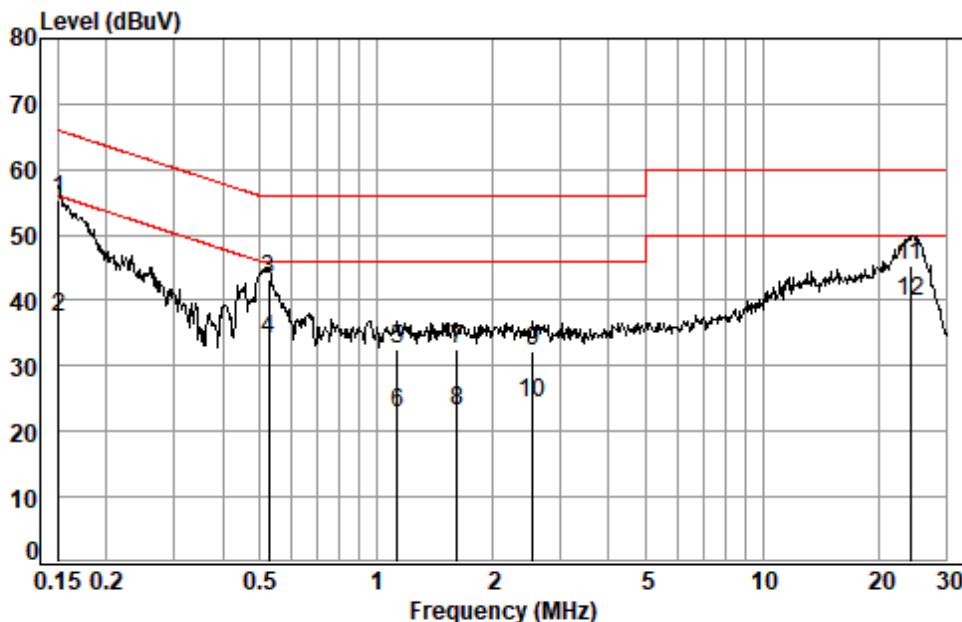
Remark 2: Pre-test AC 120V/50-60Hz&AC 240V/50-60Hz then choose the AC 120/60Hz as worst case.

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Test Mode: 15; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 01232AT

Test mode: 15

Freq	Cable	LISN	Read	Limit		Over	Remark
	Freq	Loss	Factor	Level	Level	Line	
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1 *	0.1508	0.06	10.19	44.97	55.22	65.96	-10.74 QP
2	0.1508	0.06	10.19	27.22	37.47	55.96	-18.49 Average
3	0.5265	0.08	9.56	33.66	43.30	56.00	-12.70 QP
4	0.5265	0.08	9.56	24.46	34.10	46.00	-11.90 Average
5	1.1352	0.09	9.58	23.00	32.67	56.00	-23.33 QP
6	1.1352	0.09	9.58	13.03	22.70	46.00	-23.30 Average
7	1.6190	0.10	9.58	22.94	32.62	56.00	-23.38 QP
8	1.6190	0.10	9.58	13.54	23.22	46.00	-22.78 Average
9	2.5400	0.11	9.62	22.42	32.15	56.00	-23.85 QP
10	2.5400	0.11	9.62	14.62	24.35	46.00	-21.65 Average
11	24.1423	0.33	10.26	34.69	45.28	60.00	-14.72 QP
12 *	24.1423	0.33	10.26	29.15	39.74	50.00	-10.26 Average

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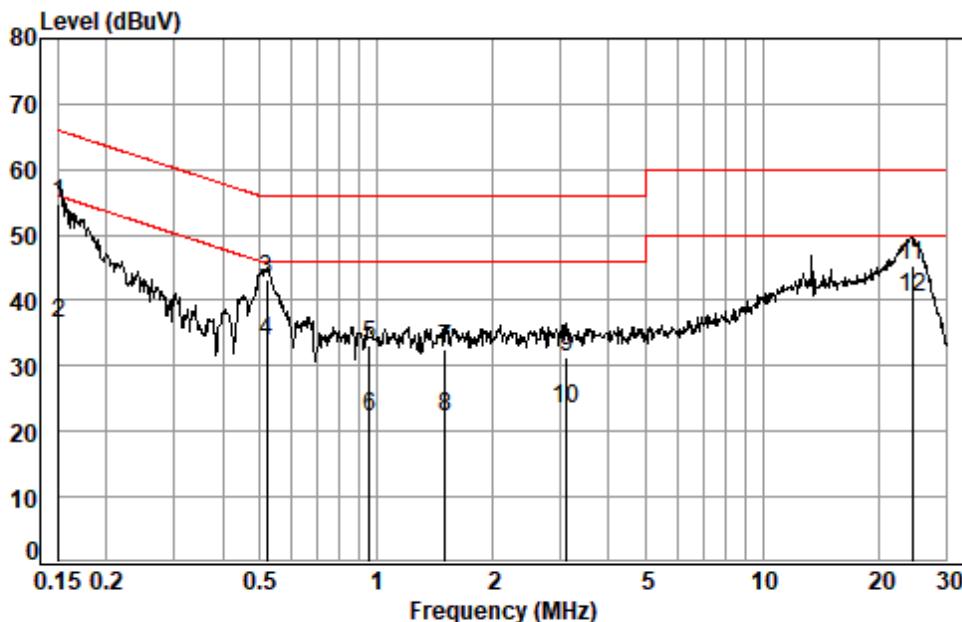
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Test Mode: 15; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 01232AT

Test mode: 15

Freq	Cable	LISN	Read	Limit		Over	Remark
	Loss	Factor	Level	Level	Line	Limit	
	MHz	dB	dB	dBuV	dBuV	dB	
1 *	0.1508	0.06	10.15	44.44	54.65	65.96	-11.31 QP
2	0.1508	0.06	10.15	26.43	36.64	55.96	-19.32 Average
3	0.5210	0.08	9.70	33.36	43.14	56.00	-12.86 QP
4	0.5210	0.08	9.70	23.98	33.76	46.00	-12.24 Average
5	0.9582	0.09	9.55	23.49	33.13	56.00	-22.87 QP
6	0.9582	0.09	9.55	12.56	22.20	46.00	-23.80 Average
7	1.5113	0.10	9.55	23.00	32.65	56.00	-23.35 QP
8	1.5113	0.10	9.55	12.43	22.08	46.00	-23.92 Average
9	3.1066	0.11	9.54	21.63	31.28	56.00	-24.72 QP
10	3.1066	0.11	9.54	13.75	23.40	46.00	-22.60 Average
11	24.3995	0.34	10.41	34.70	45.45	60.00	-14.55 QP
12 *	24.3995	0.34	10.41	29.56	40.31	50.00	-9.69 Average

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**7.2 Radiated Emissions which fall in the restricted bands**

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

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

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

**\*(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.

**7.2.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.5 °C      Humidity: 56.3 % RH      Atmospheric Pressure: 1020 mbar

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**7.2.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Pre-scan	10	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	11	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	12	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	13	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 20/40/80, Only the data of worst case is recorded in the report.
Final test	15	Charge + TX mode (U-NII-1) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2A) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-2C) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Final test	18	Charge + TX mode (U-NII-3) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.

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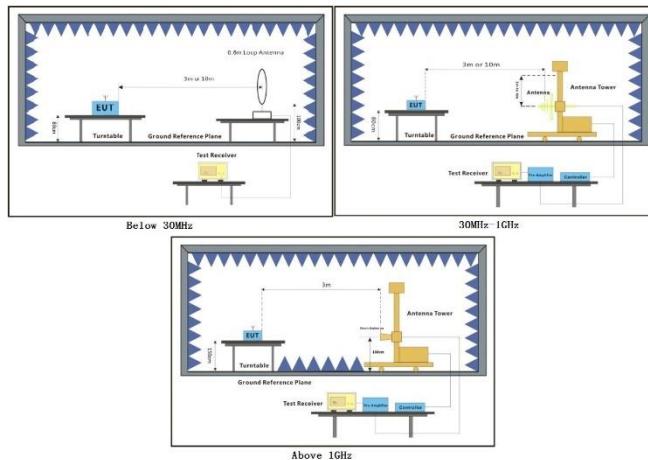
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### 7.2.3 Test Setup Diagram



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**7.2.4 Measurement Procedure and Data**

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

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

Remark 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 3. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle  $< 98\%$ ) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.



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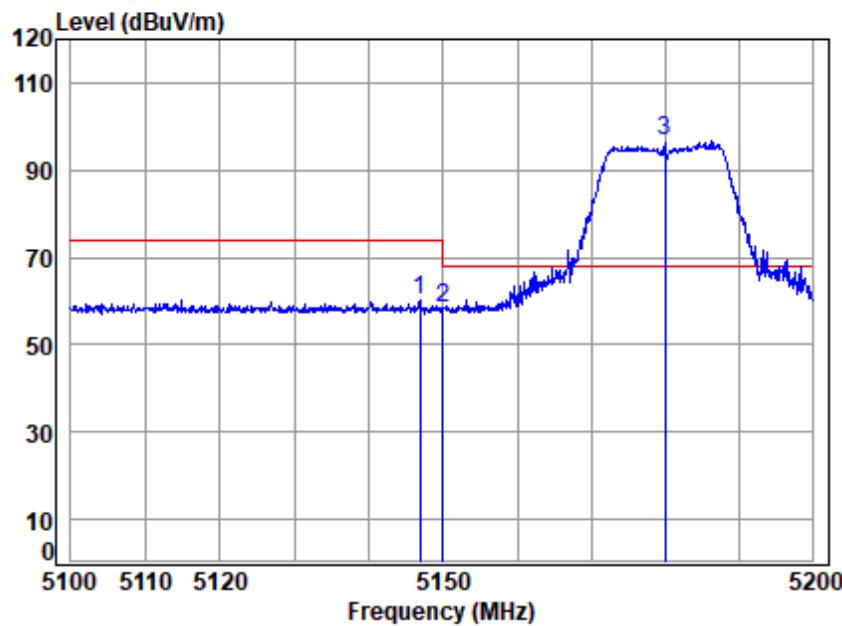
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5180 Band edge  
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m
1 5146.858	18.83	33.91	31.28	38.98	60.44	74.00	-13.56 peak
2 5149.980	18.83	33.90	31.28	37.17	58.62	74.00	-15.38 peak
3 p 5180.000	18.88	33.96	31.30	74.96	96.50	68.20	28.30 peak

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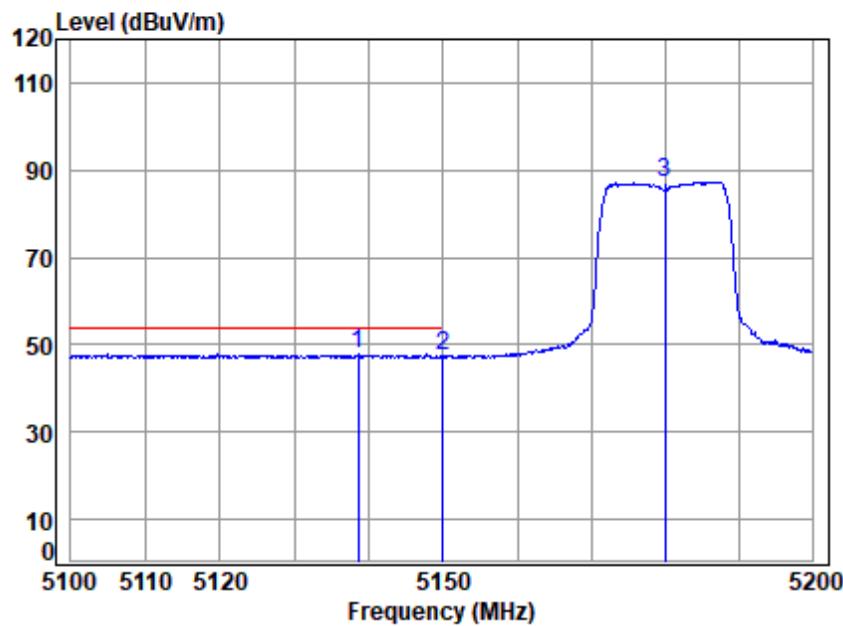
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5180 Band edge  
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5138.570	18.82	33.92	31.27	26.30	47.77	54.00	-6.23 Average
2 5149.980	18.83	33.90	31.28	25.93	47.38	54.00	-6.62 Average
3 5180.000	18.88	33.96	31.30	65.81	87.35	-----	Average

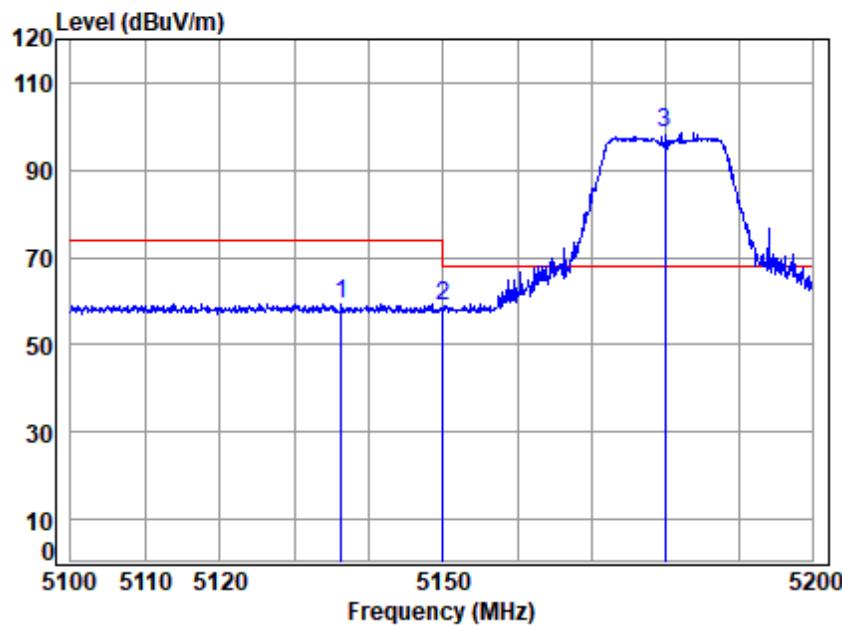
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Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5180 Band edge  
: 5G WIFI 11A

		Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5136.275	18.81	33.93	31.27	37.99	59.46	74.00	-14.54	Peak
2	5149.980	18.83	33.90	31.28	37.24	58.69	74.00	-15.31	Peak
3 p	5180.000	18.88	33.96	31.30	76.93	98.47	68.20	30.27	Peak

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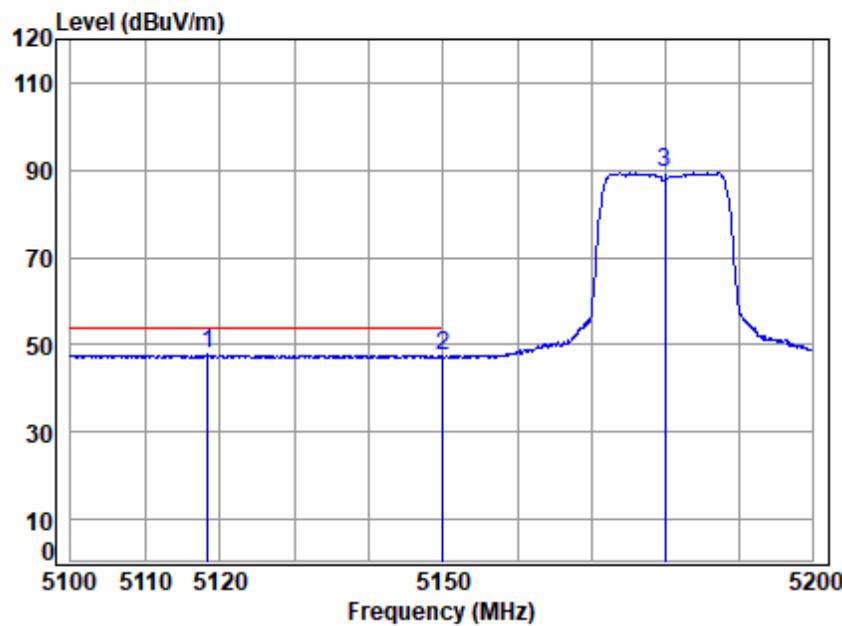
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Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5180 Band edge  
: 5G WIFI 11A

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5118.354	18.79	33.96	31.26	26.24	47.73	54.00	-6.27 Average
2 5149.980	18.83	33.90	31.28	26.07	47.52	54.00	-6.48 Average
3 5180.000	18.88	33.96	31.30	67.97	89.51	-----	----- Average

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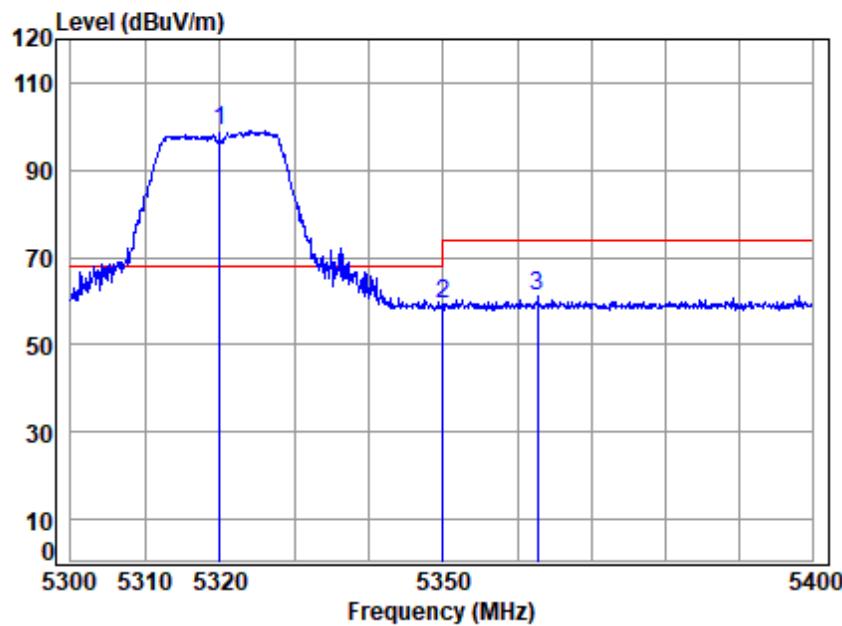
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Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5320 Band edge  
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5320.000	19.07	34.28	31.37	76.91	98.89	68.20	30.69	peak
2 5350.020	19.11	34.40	31.39	37.01	59.13	74.00	-14.87	peak
3 5362.782	19.13	34.45	31.39	38.97	61.16	74.00	-12.84	peak

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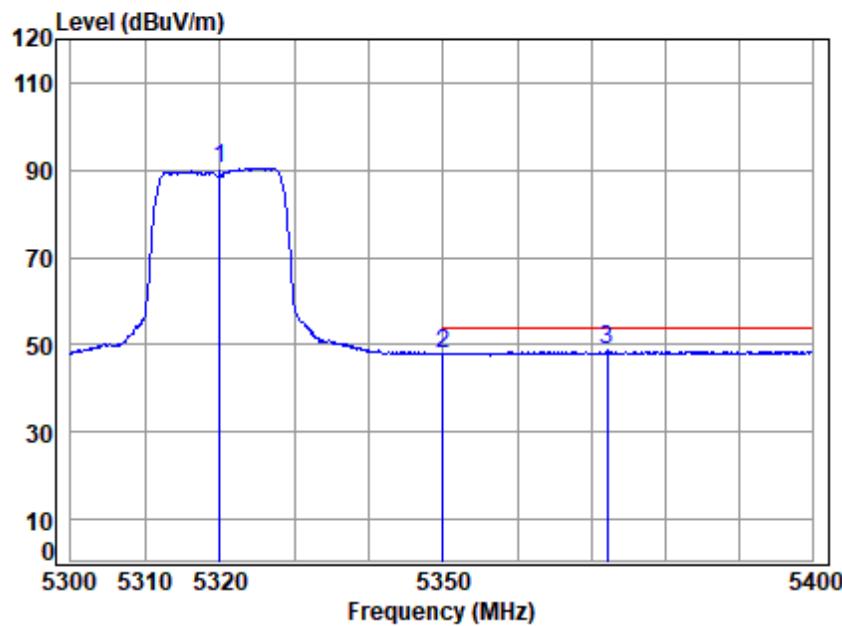
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Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5320 Band edge  
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5320.000	19.07	34.28	31.37	68.57	90.55	-----	-----	Average
2 5350.020	19.11	34.40	31.39	25.86	47.98	54.00	-6.02	Average
3 q 5372.213	19.14	34.49	31.40	26.46	48.69	54.00	-5.31	Average

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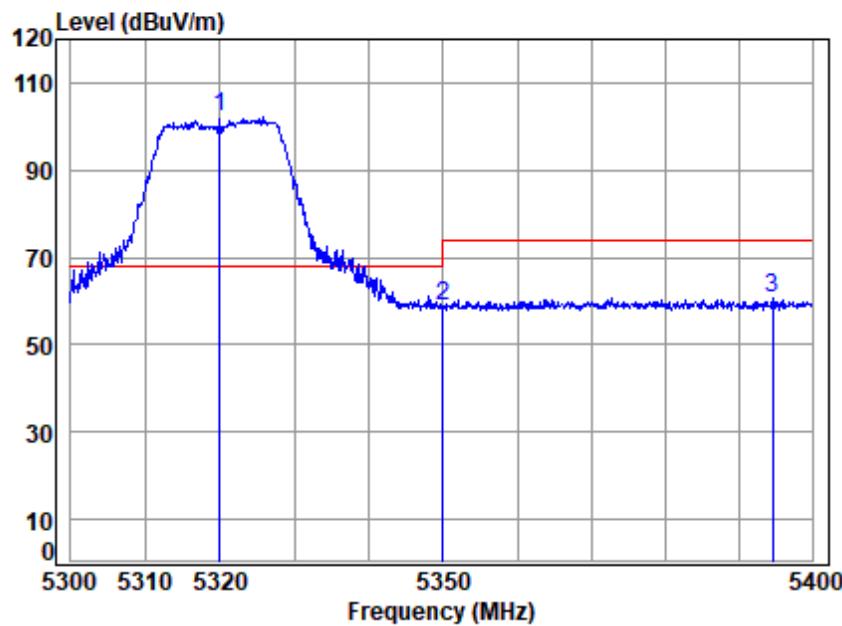
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Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5320 Band edge  
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5320.000	19.07	34.28	31.37	80.06	102.04	68.20	33.84	Peak
2 5350.020	19.11	34.40	31.39	36.89	59.01	74.00	-14.99	Peak
3 5394.653	19.17	34.58	31.41	38.18	60.52	74.00	-13.48	Peak

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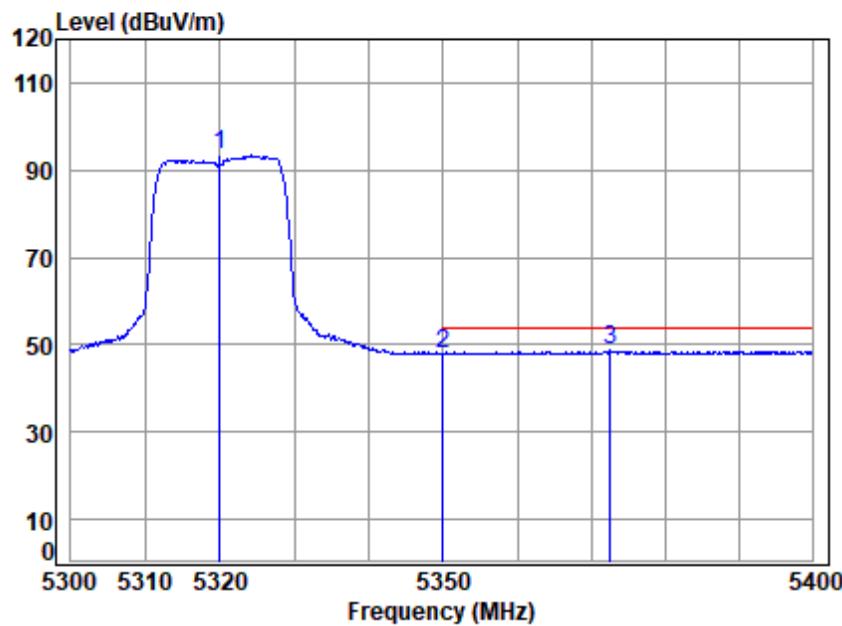
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Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5320 Band edge  
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5320.000	19.07	34.28	31.37	71.43	93.41	-----	-----	Average
2 5350.020	19.11	34.40	31.39	25.90	48.02	54.00	-5.98	Average
3 q 5372.615	19.14	34.49	31.40	26.39	48.62	54.00	-5.38	Average

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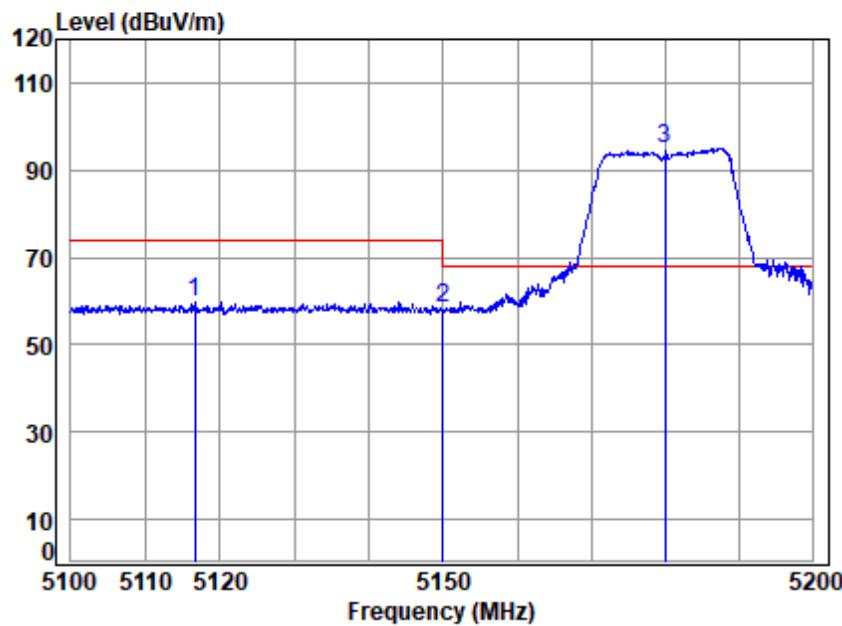
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5180 Band edge  
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	5116.565	18.79	33.97	31.26	38.16	59.66	74.00	-14.34 peak
2	5149.980	18.83	33.90	31.28	36.95	58.40	74.00	-15.60 peak
3 p	5180.000	18.88	33.96	31.30	73.56	95.10	68.20	26.90 peak

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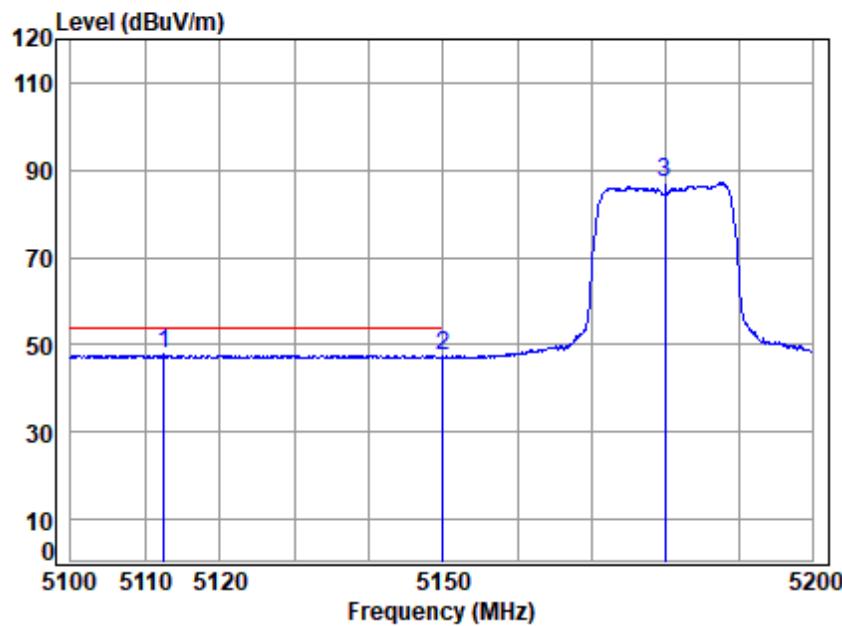
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5180 Band edge  
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 q 5112.493	18.78	33.98	31.26	26.23	47.73	54.00	-6.27 Average
2 5149.980	18.83	33.90	31.28	25.86	47.31	54.00	-6.69 Average
3 5180.000	18.88	33.96	31.30	65.49	87.03	-----	Average

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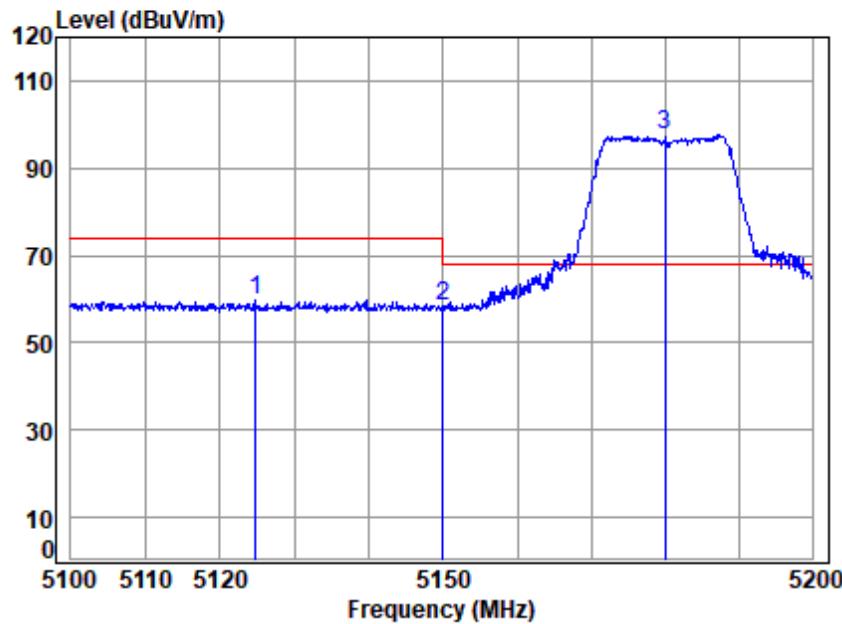
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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5180 Band edge  
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	5124.719	18.80	33.95	31.27	38.43	59.91	74.00	-14.09 Peak
2	5149.980	18.83	33.90	31.28	37.03	58.48	74.00	-15.52 Peak
3 p	5180.000	18.88	33.96	31.30	75.95	97.49	68.20	29.29 Peak

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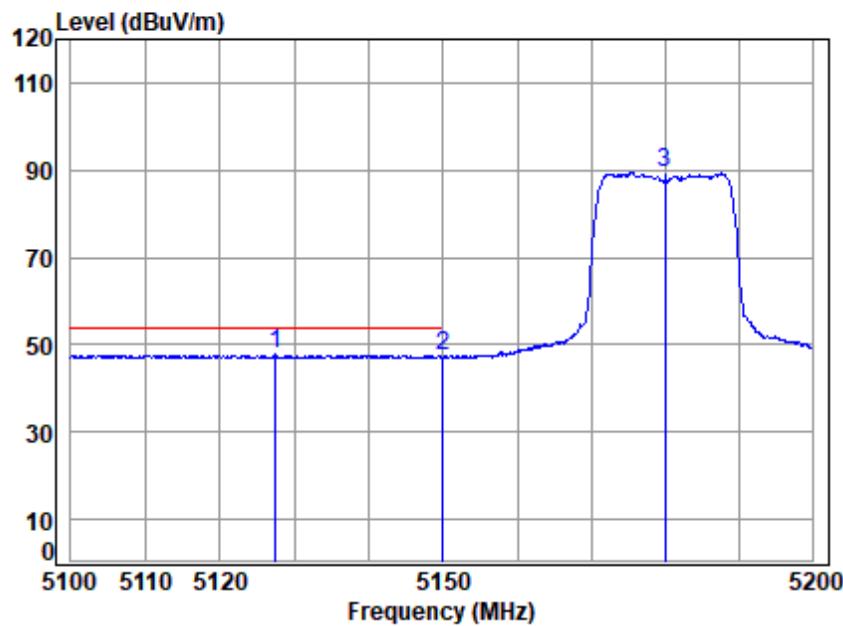
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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5180 Band edge  
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m
1 q 5127.406	18.80	33.95	31.27	26.21	47.69	54.00	-6.31 Average
2 5149.980	18.83	33.90	31.28	25.86	47.31	54.00	-6.69 Average
3 5180.000	18.88	33.96	31.30	68.11	89.65	-----	----- Average

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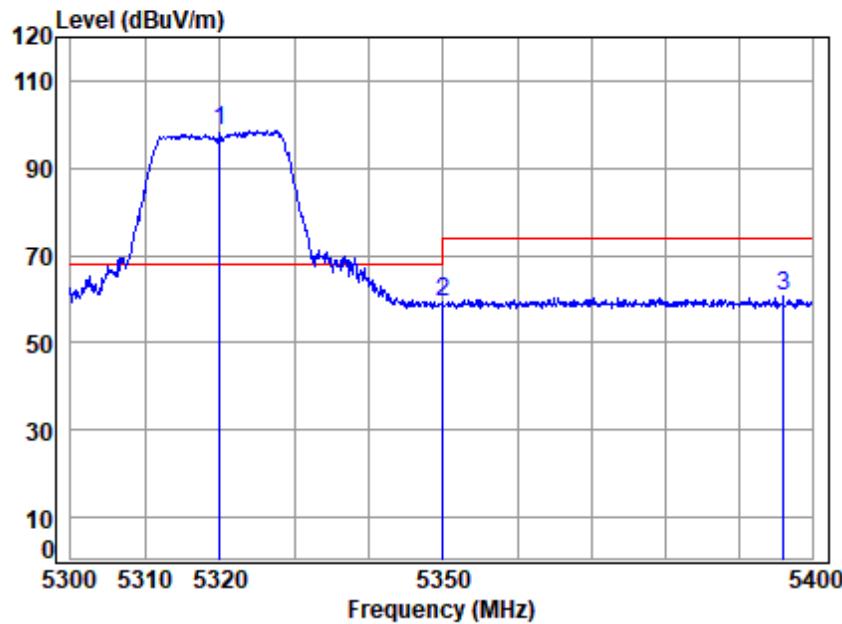
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Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5320 Band edge  
: 5G WIFI 11AC20

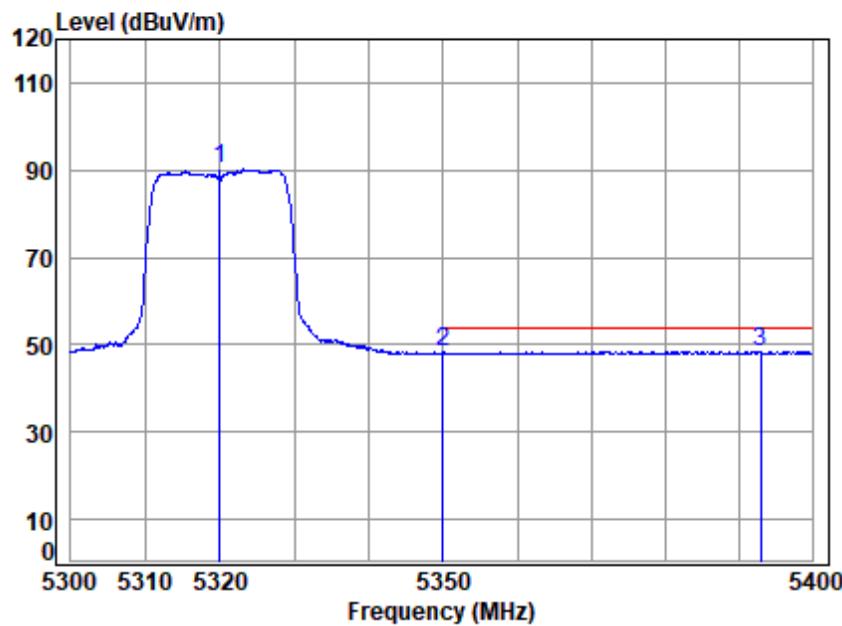
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m
1 p 5320.000	19.07	34.28	31.37	76.59	98.57	68.20	30.37 peak
2 5350.020	19.11	34.40	31.39	37.06	59.18	74.00	-14.82 peak
3 5396.065	19.17	34.58	31.41	38.23	60.57	74.00	-13.43 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5320 Band edge  
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	5320.000	19.07	34.28	31.37	68.17	90.15	-----	Average
2	q 5350.020	19.11	34.40	31.39	26.47	48.59	54.00	-5.41 Average
3	5393.040	19.17	34.57	31.41	26.14	48.47	54.00	-5.53 Average

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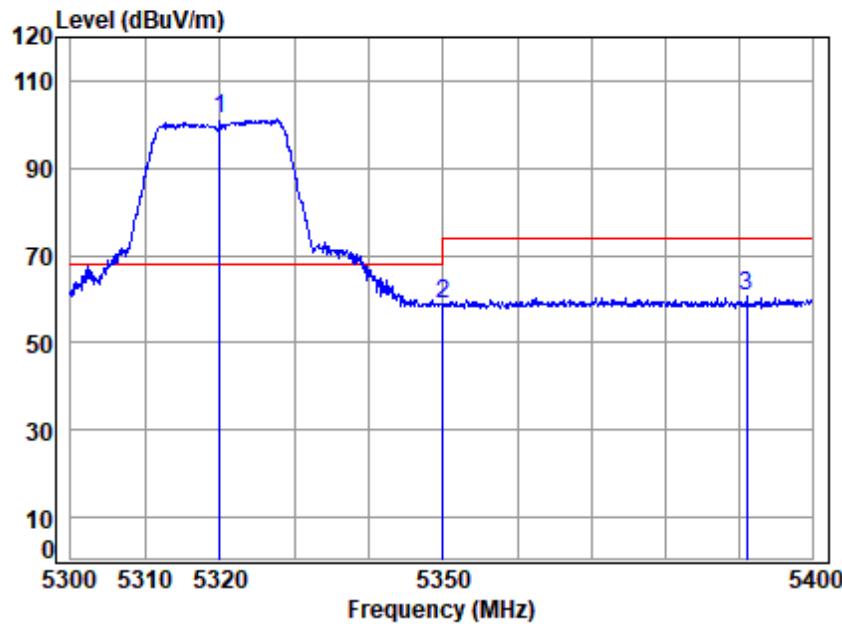
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Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5320 Band edge  
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 p 5320.000	19.07	34.28	31.37	79.42	101.40	68.20	33.20 Peak
2 5350.020	19.11	34.40	31.39	36.95	59.07	74.00	-14.93 Peak
3 5391.125	19.17	34.56	31.41	38.21	60.53	74.00	-13.47 Peak

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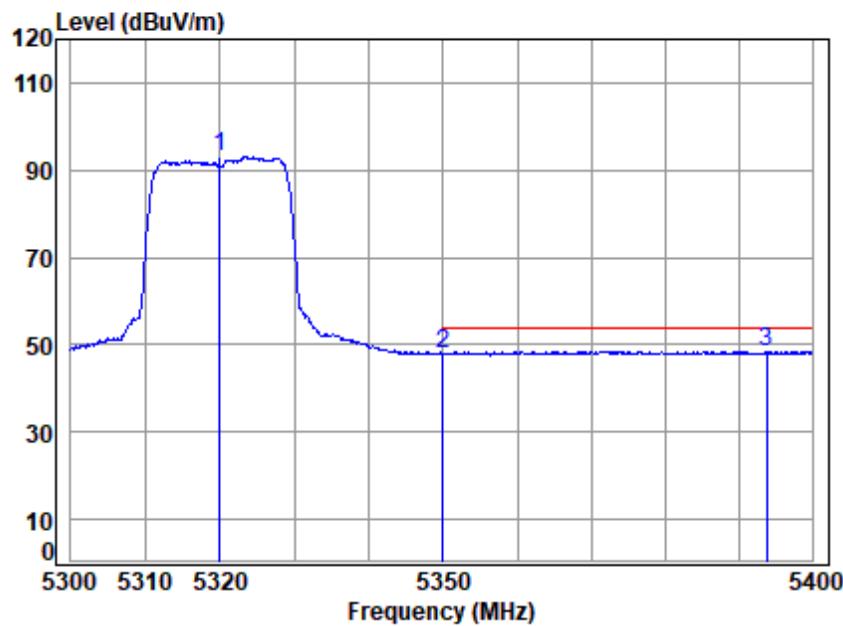
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Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5320 Band edge  
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5320.000	19.07	34.28	31.37	71.15	93.13	-----	Average
2 5350.020	19.11	34.40	31.39	25.90	48.02	54.00	-5.98 Average
3 q 5393.846	19.17	34.58	31.41	26.20	48.54	54.00	-5.46 Average

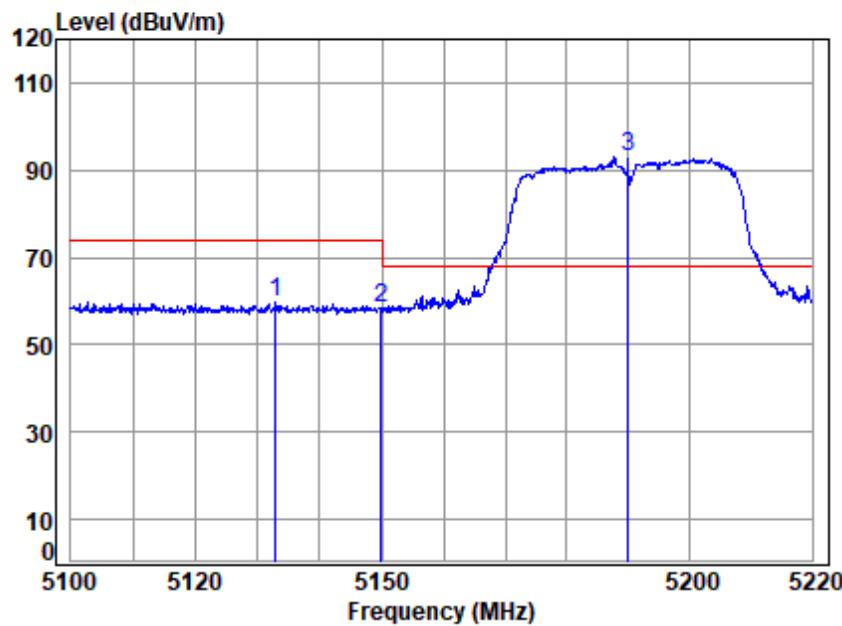
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5190 Band edge  
: 5G WIFI 11AC40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5132.842	18.81	33.93	31.27	38.39	59.86	74.00 -14.14 peak
2	5149.980	18.83	33.90	31.28	37.03	58.48	74.00 -15.52 peak
3 p	5190.000	18.89	33.98	31.30	71.32	92.89	68.20 24.69 peak

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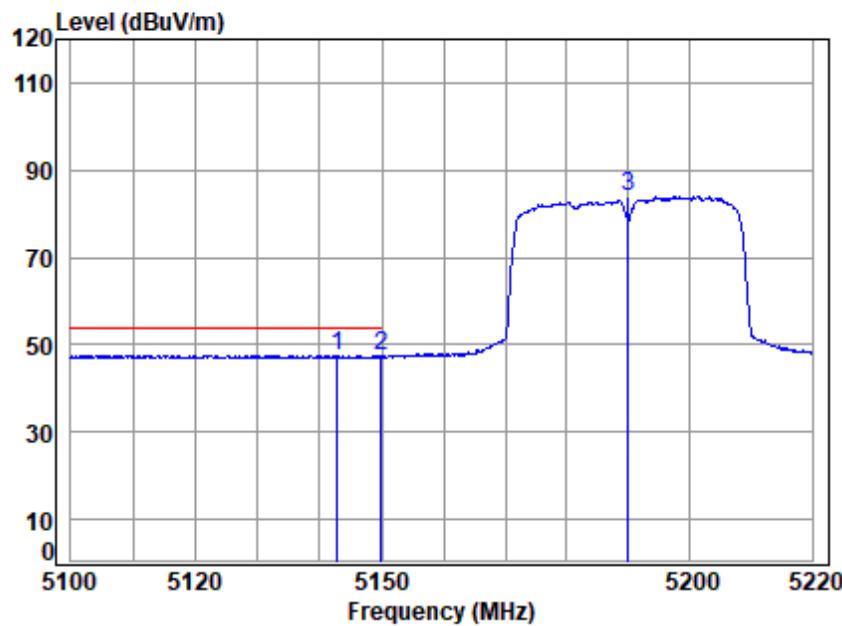
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5190 Band edge  
: 5G WIFI 11AC40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5142.879	18.82	33.91	31.28	26.11	47.56	54.00	-6.44 Average
2 5149.980	18.83	33.90	31.28	26.06	47.51	54.00	-6.49 Average
3 5190.000	18.89	33.98	31.30	62.49	84.06	-----	----- Average

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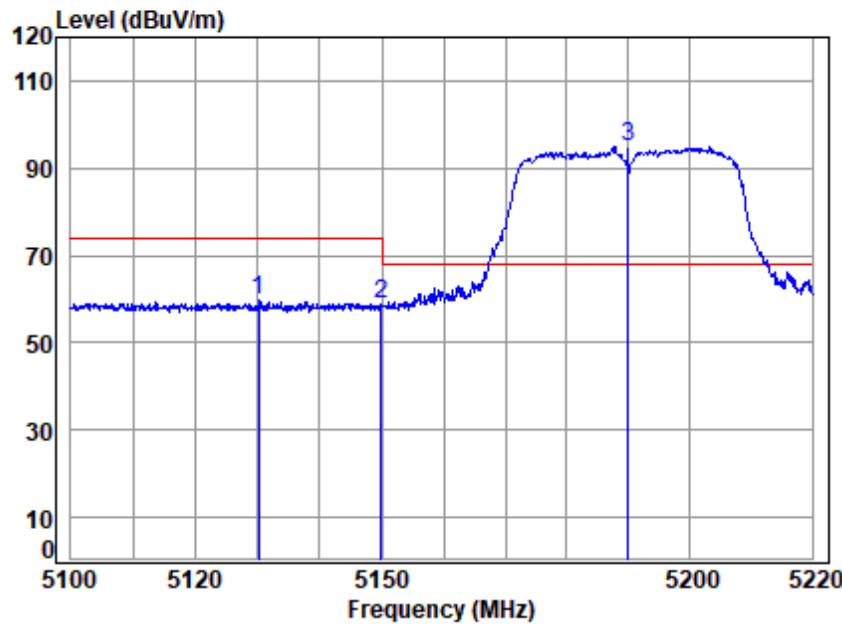
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Shenzhen Branch Laboratory

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



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5190 Band edge  
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m
1 5130.097	18.81	33.94	31.27	38.25	59.73	74.00	-14.27 Peak
2 5149.980	18.83	33.90	31.28	37.25	58.70	74.00	-15.30 Peak
3 p 5190.000	18.89	33.98	31.30	73.42	94.99	68.20	26.79 Peak

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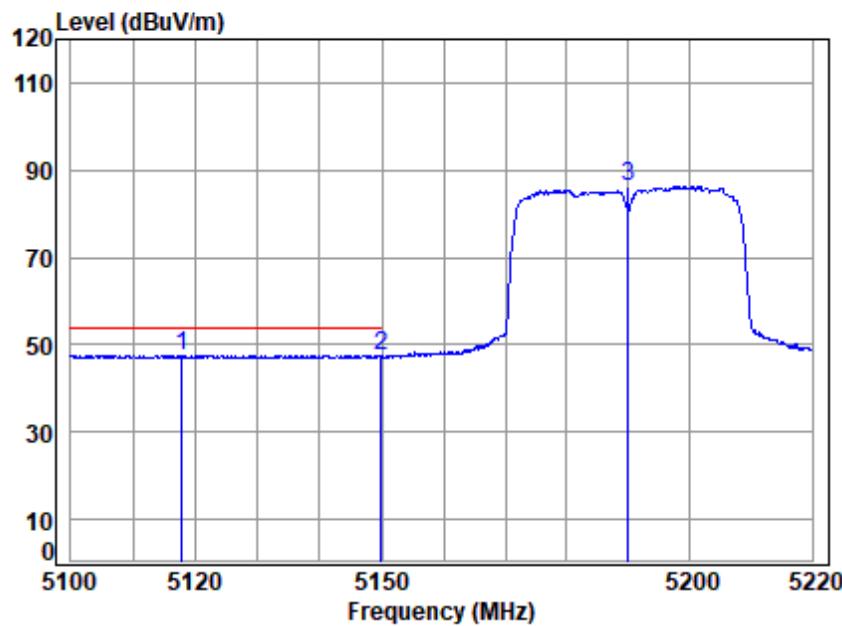
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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5190 Band edge  
: 5G WIFI 11AC40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5117.823	18.79	33.96	31.26	26.13	47.62	54.00	-6.38 Average
2 5149.980	18.83	33.90	31.28	26.00	47.45	54.00	-6.55 Average
3 5190.000	18.89	33.98	31.30	64.68	86.25	-----	Average

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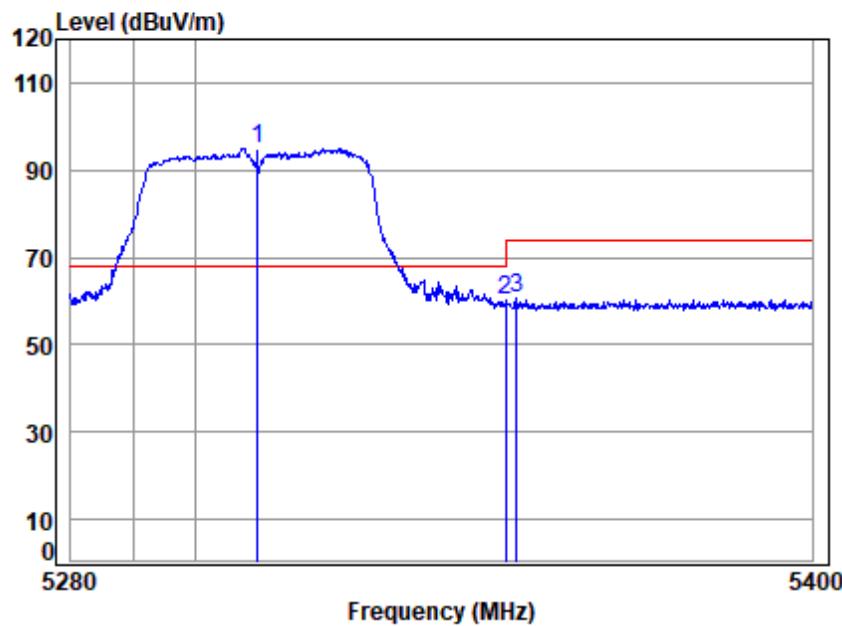
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Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5310 Band edge  
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5310.000	19.06	34.24	31.36	73.12	95.06	68.20	26.86	peak
2 5350.020	19.11	34.40	31.39	38.24	60.36	74.00	-13.64	peak
3 5351.917	19.11	34.41	31.39	38.34	60.47	74.00	-13.53	peak

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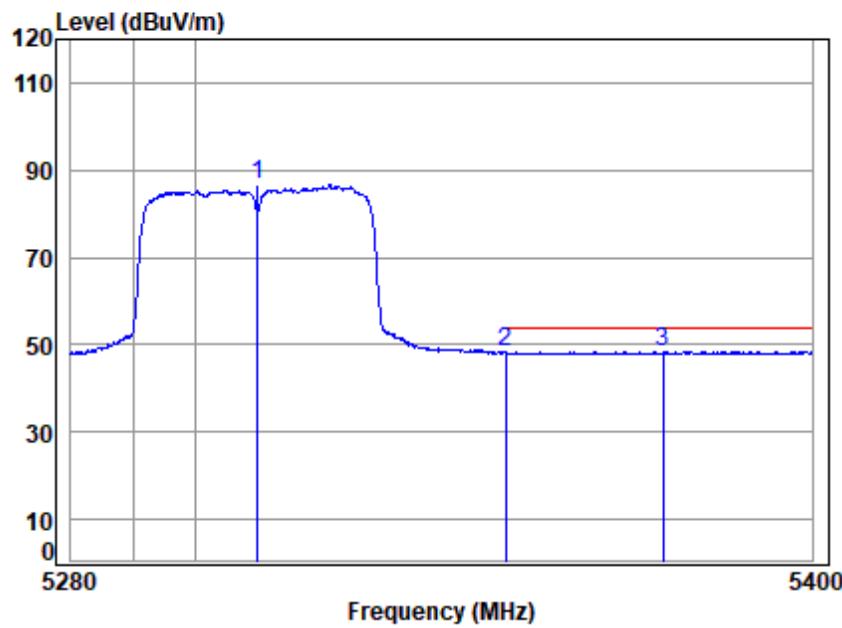
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Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5310 Band edge  
: 5G WIFI 11AC40

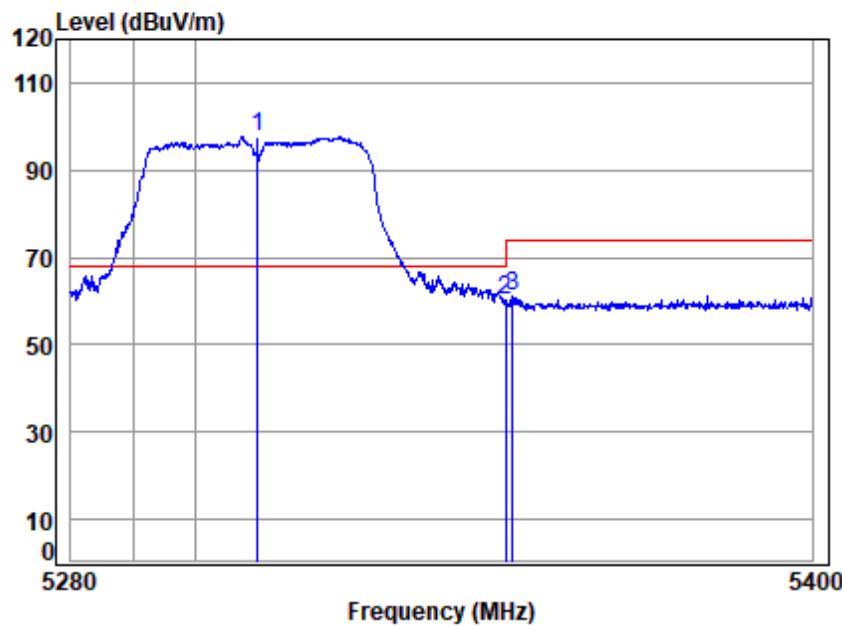
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 5310.000	19.06	34.24	31.36	64.57	86.51	-----	Average
2 5350.020	19.11	34.40	31.39	26.29	48.41	54.00	-5.59 Average
3 q 5375.663	19.14	34.50	31.40	26.23	48.47	54.00	-5.53 Average

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



Site : chamber  
Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5310 Band edge  
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5310.000	19.06	34.24	31.36	75.71	97.65	68.20	29.45	Peak
2 5350.020	19.11	34.40	31.39	38.21	60.33	74.00	-13.67	Peak
3 5351.195	19.11	34.40	31.39	39.23	61.35	74.00	-12.65	Peak

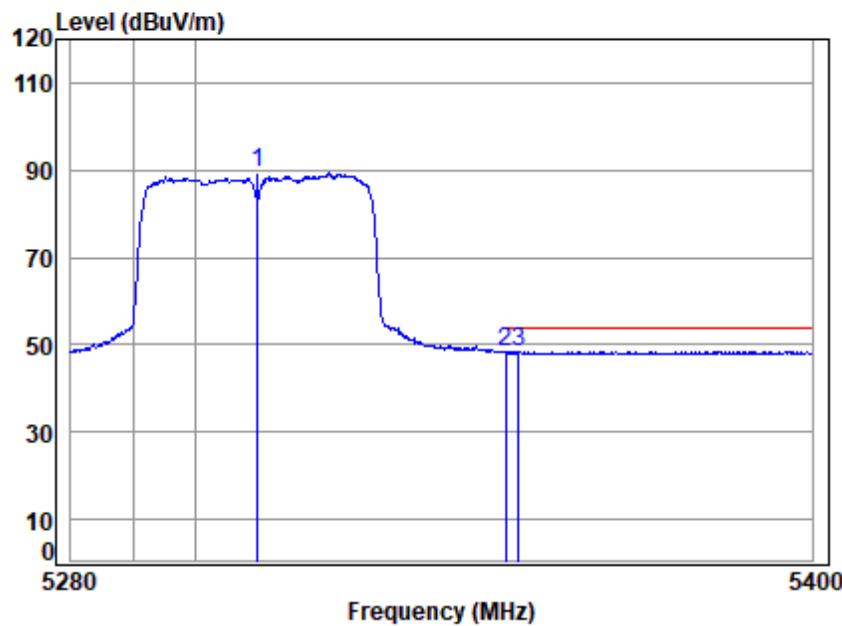
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Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5310 Band edge  
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 5310.000	19.06	34.24	31.36	67.28	89.22	-----	-----	Average
2 5350.020	19.11	34.40	31.39	26.37	48.49	54.00	-5.51	Average
3 q 5352.157	19.11	34.41	31.39	26.41	48.54	54.00	-5.46	Average

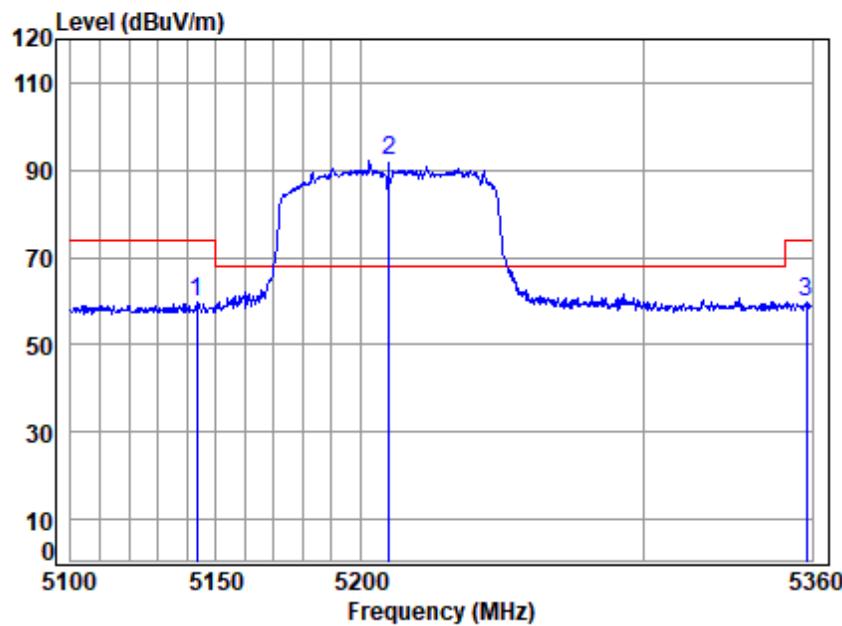
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5210 Band edge  
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Line	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5143.293	18.82	33.91	31.28	38.35	59.80	74.00	-14.20 peak
2 p	5210.000	18.92	34.02	31.31	70.38	92.01	68.20	23.81 peak
3	5358.135	19.12	34.43	31.39	37.70	59.86	74.00	-14.14 peak

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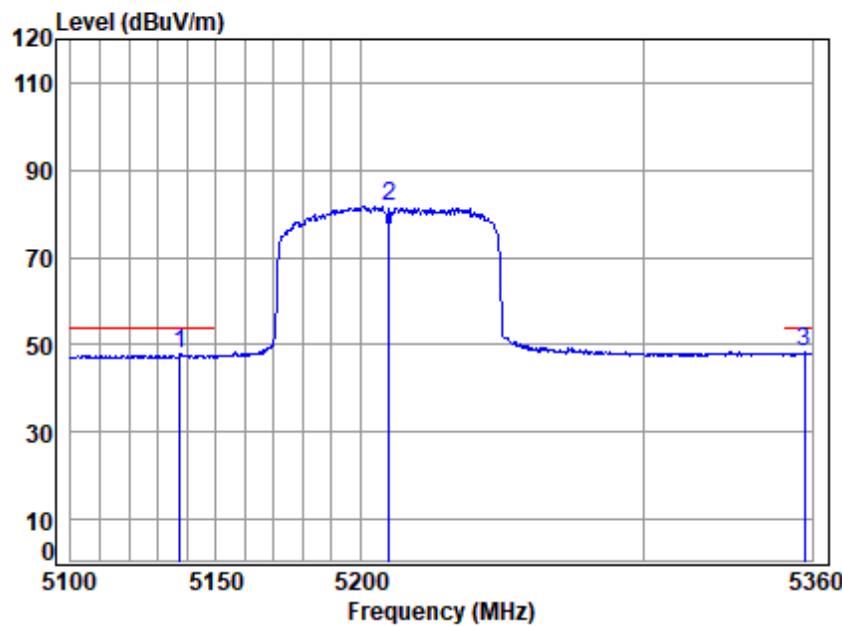
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5210 Band edge  
: 5G WIFI 11AC80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m
1 5137.414	18.82	33.93	31.27	26.29	47.77	54.00	-6.23 Average
2 5210.000	18.92	34.02	31.31	60.21	81.84	-----	----- Average
3 q 5357.335	19.12	34.43	31.39	26.01	48.17	54.00	-5.83 Average

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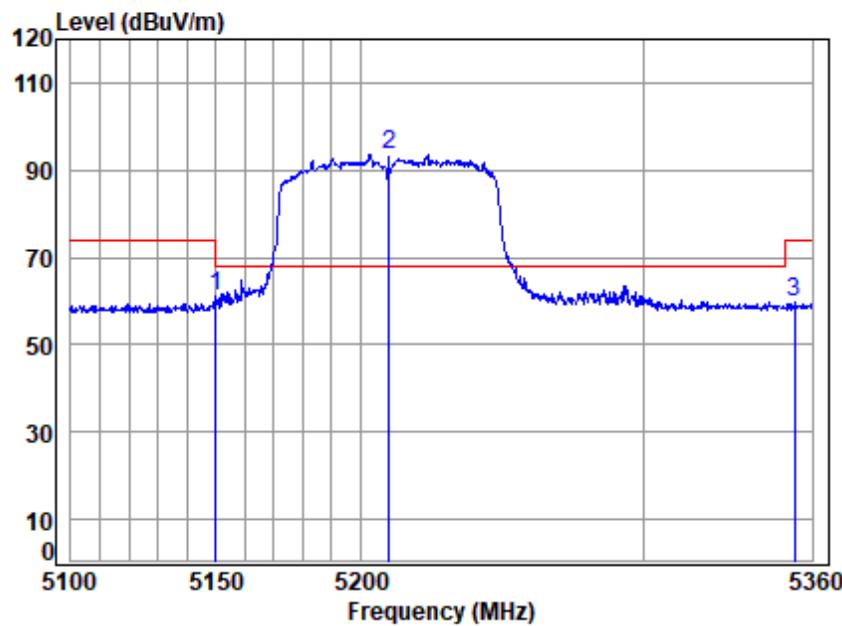
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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5210 Band edge  
: 5G WIFI 11AC80

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5149.690	18.83	33.90	31.28	39.91	61.36	74.00	-12.64 Peak
2 p 5210.000	18.92	34.02	31.31	72.06	93.69	68.20	25.49 Peak
3 5353.607	19.11	34.41	31.39	37.56	59.69	74.00	-14.31 Peak

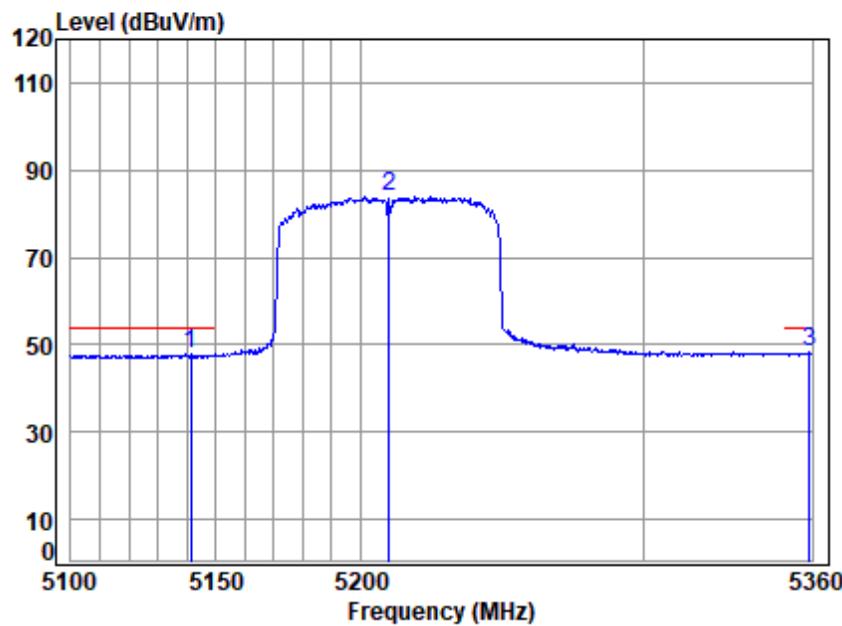
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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5210 Band edge  
: 5G WIFI 11AC80

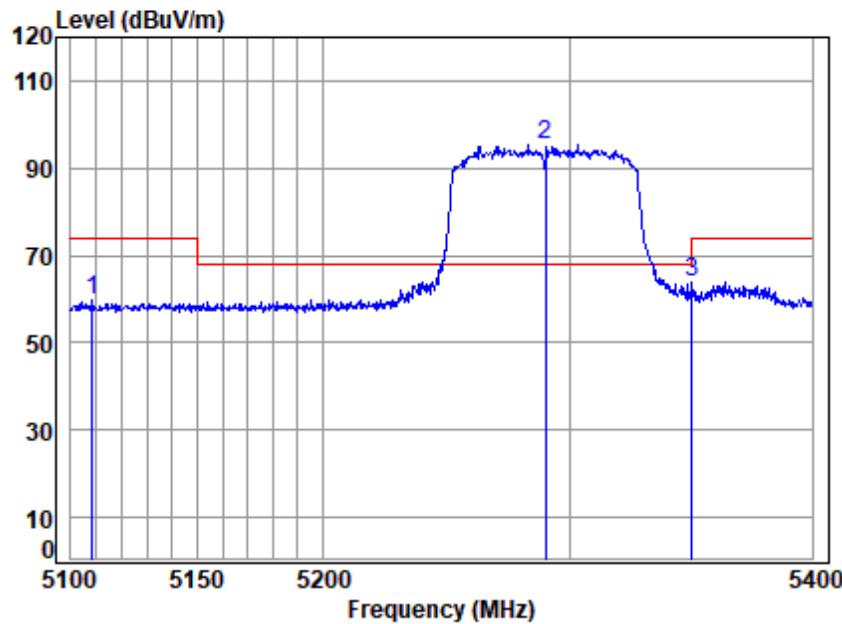
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5141.248	18.82	33.92	31.28	26.23	47.69	54.00	-6.31	Average
2 5210.000	18.92	34.02	31.31	62.24	83.87	-----	-----	Average
3 q 5358.934	19.12	34.44	31.39	26.17	48.34	54.00	-5.66	Average

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5290 Band edge  
: 5G WIFI 11AC80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	5108.461	18.78	33.98	31.26	38.16	59.66	74.00	-14.34 peak
2	p 5290.000	19.03	34.18	31.35	73.51	95.37	68.20	27.17 peak
3	5350.229	19.11	34.40	31.39	41.53	63.65	74.00	-10.35 peak

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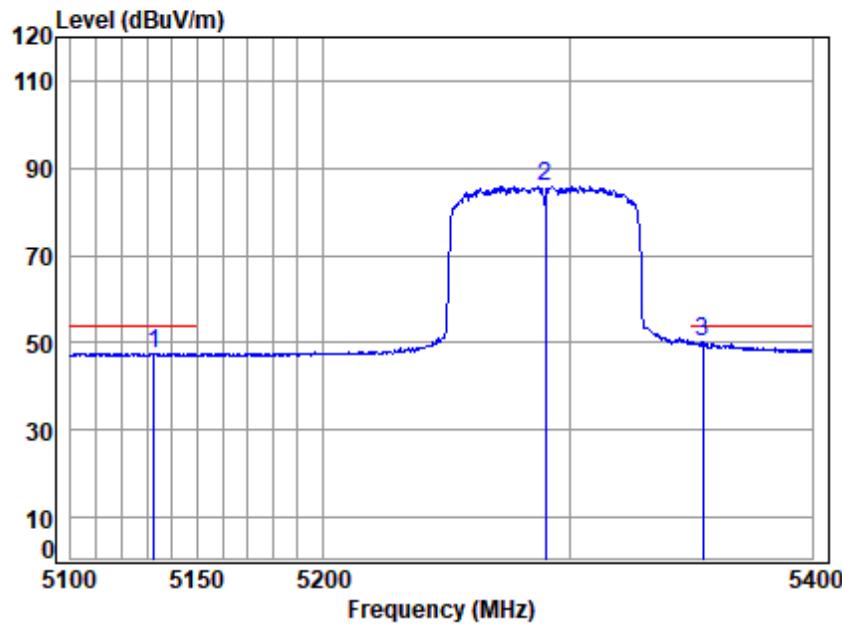
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Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5290 Band edge  
: 5G WIFI 11AC80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5132.753	18.81	33.93	31.27	26.11	47.58	54.00	-6.42	Average
2 5290.000	19.03	34.18	31.35	63.92	85.78	-----	-----	Average
3 q 5354.818	19.12	34.42	31.39	28.13	50.28	54.00	-3.72	Average

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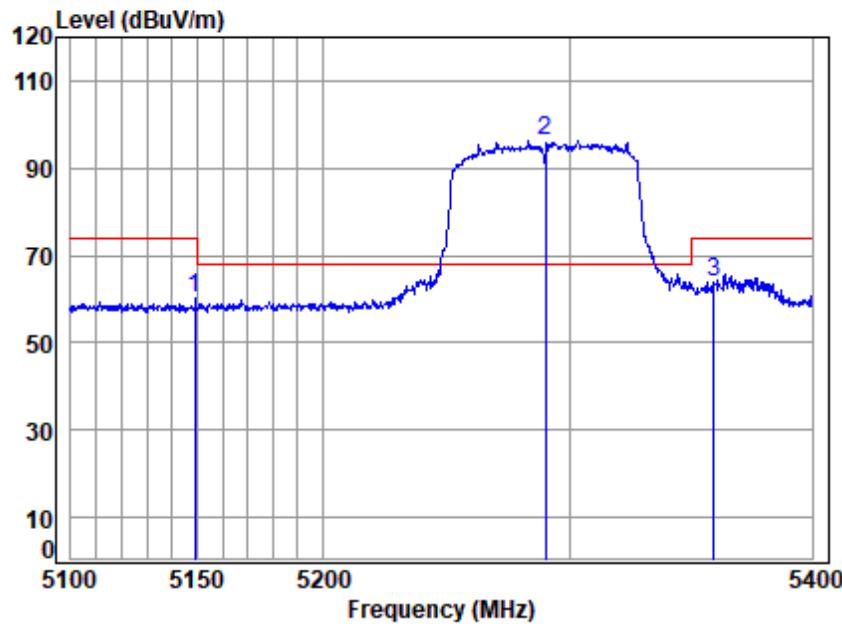
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Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5290 Band edge  
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.209	18.83	33.90	31.28	38.78	60.23	74.00	-13.77 Peak
2 p	5290.000	19.03	34.18	31.35	74.59	96.45	68.20	28.25 Peak
3	5359.104	19.12	34.44	31.39	41.93	64.10	74.00	-9.90 Peak

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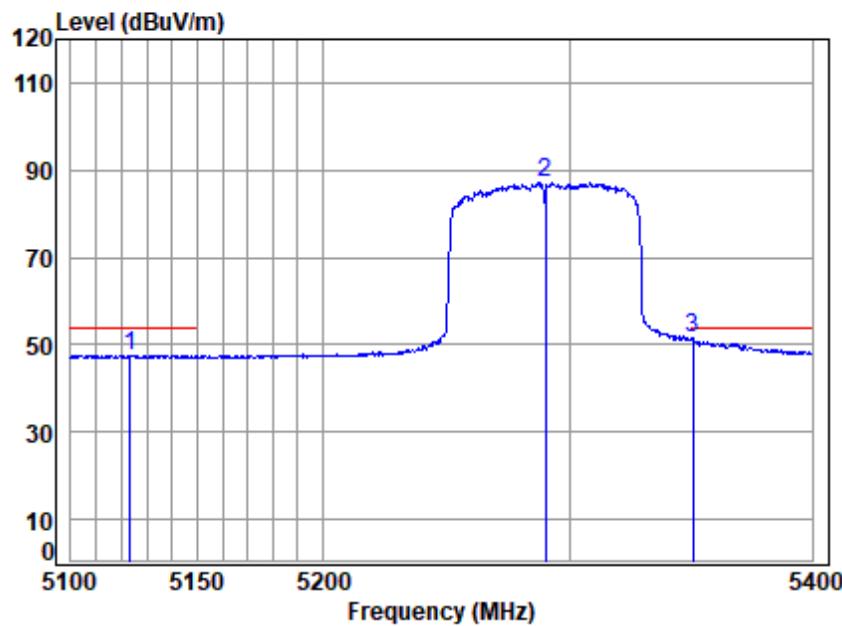
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Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5290 Band edge  
: 5G WIFI 11AC80

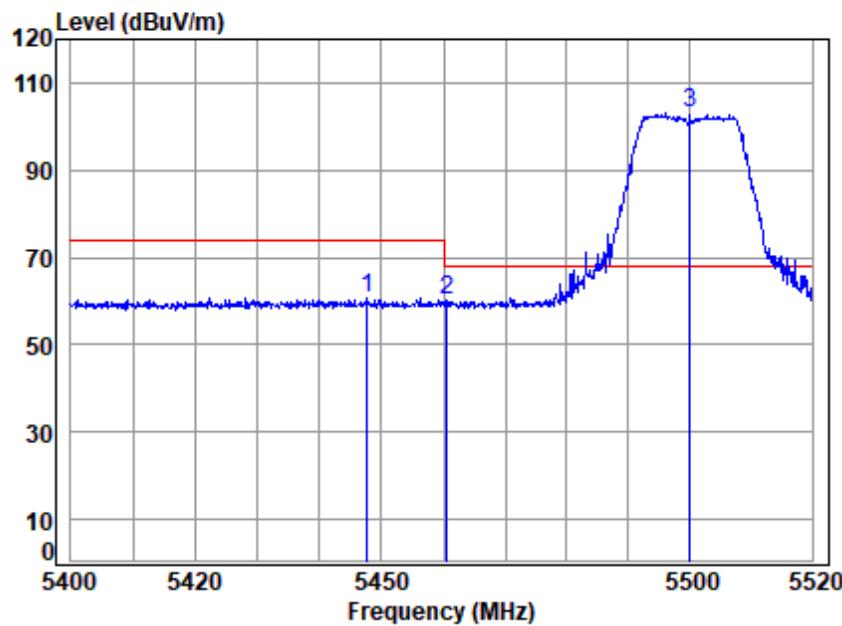
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m
1 5123.374	18.80	33.95	31.27	26.11	47.59	54.00	-6.41 Average
2 5290.000	19.03	34.18	31.35	65.36	87.22	-----	----- Average
3 q 5350.535	19.11	34.40	31.39	29.54	51.66	54.00	-2.34 Average

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5500 Band edge  
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1	5447.684	19.24	34.70	31.44	38.33	60.83	74.00 -13.17 peak
2	5460.510	19.26	34.66	31.44	37.90	60.38	68.20 -7.82 peak
3 p	5500.000	19.31	34.50	31.46	80.56	102.91	68.20 34.71 peak

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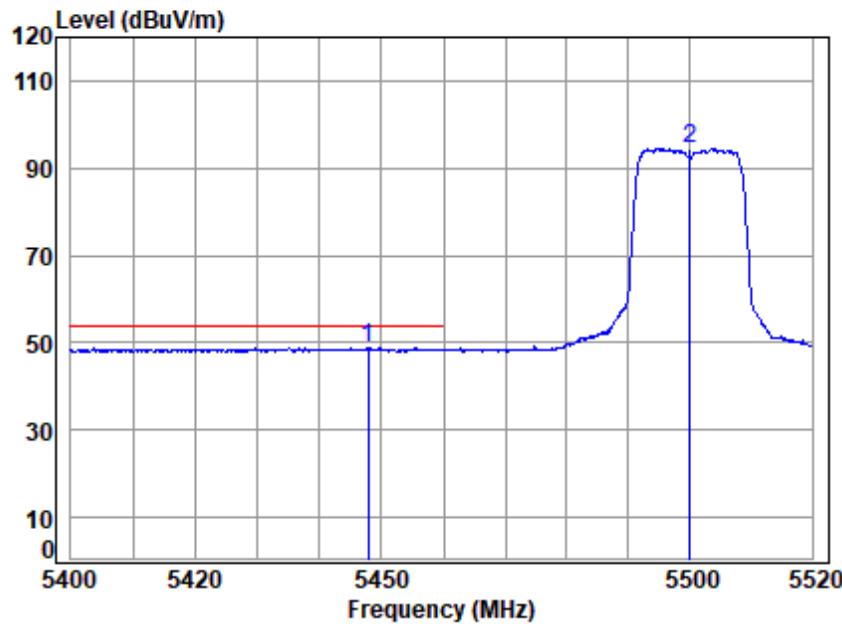
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5500 Band edge  
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5447.804	19.24	34.70	31.44	26.31	48.81	54.00	-5.19	Average
2 5500.000	19.31	34.50	31.46	72.12	94.47	-----	-----	Average

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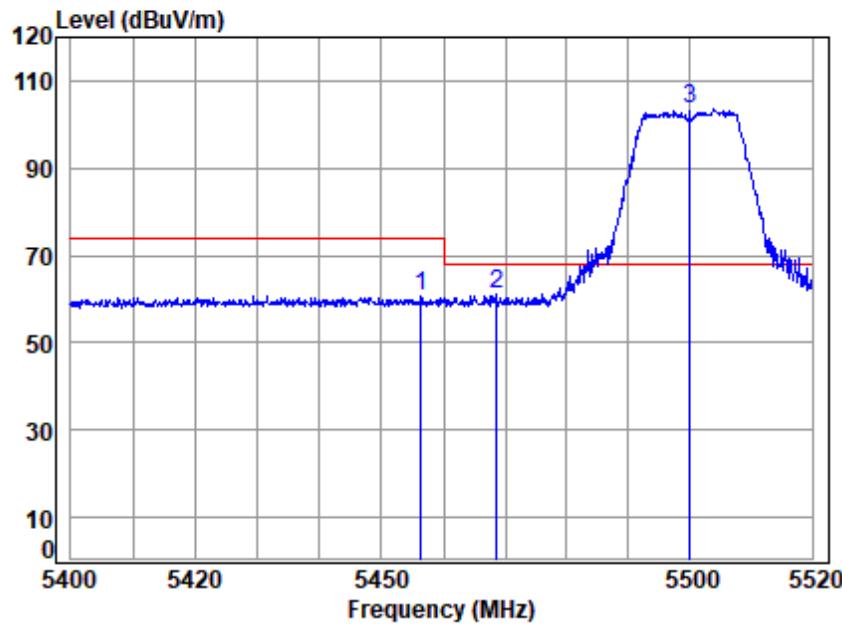
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Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5500 Band edge  
: 5G WIFI 11A

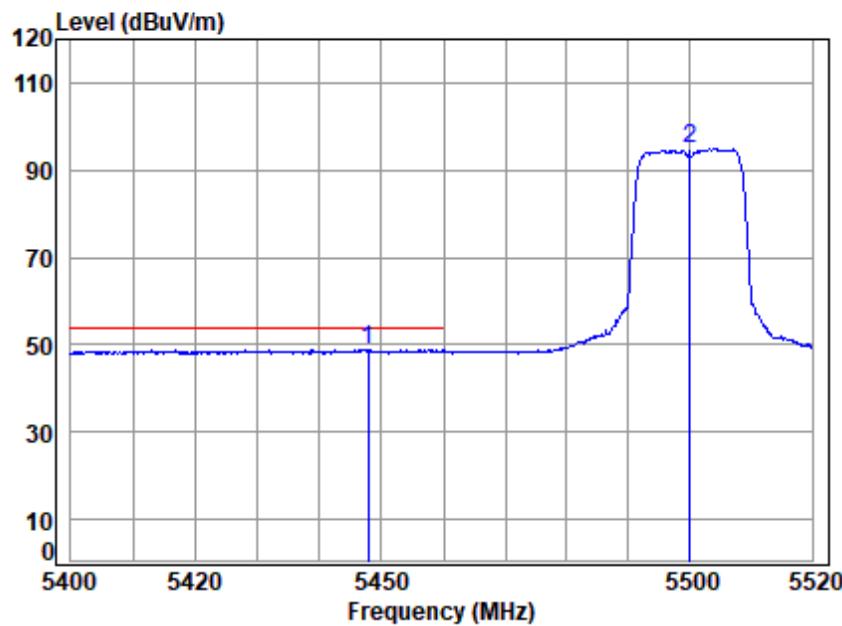
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1	5456.431	19.25	34.67	31.44	38.34	60.82	74.00 -13.18 Peak
2	5468.678	19.27	34.63	31.45	38.76	61.21	68.20 -6.99 peak
3 p	5500.000	19.31	34.50	31.46	81.41	103.76	68.20 35.56 Peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5500 Band edge  
: 5G WIFI 11A

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5447.804	19.24	34.70	31.44	26.36	48.86	54.00	-5.14 Average
2 5500.000	19.31	34.50	31.46	72.63	94.98	-----	----- Average



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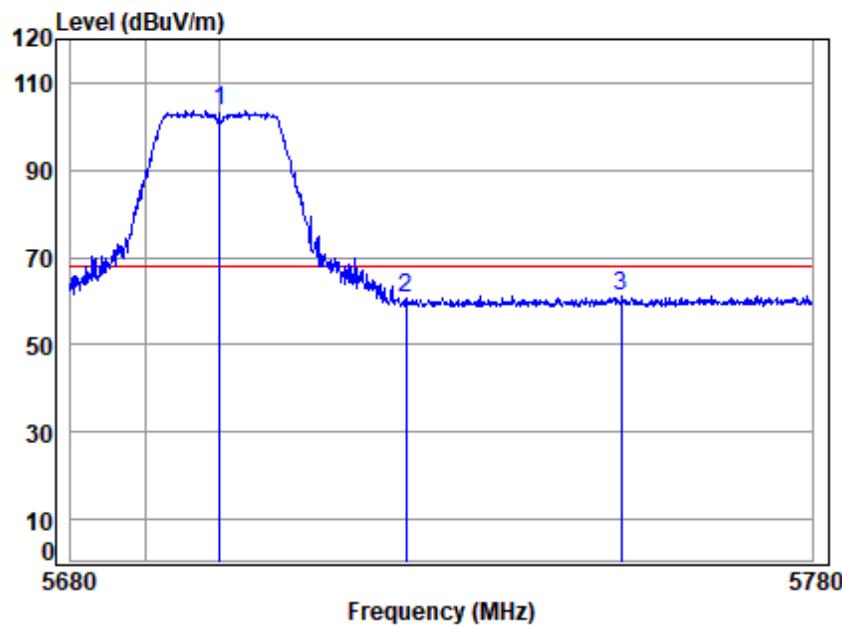
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5700 Band edge  
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5700.000	19.44	34.30	31.56	81.35	103.53	68.20	35.33	peak
2 5725.000	19.46	34.25	31.57	38.61	60.75	68.20	-7.45	peak
3 5754.133	19.48	34.21	31.59	38.87	60.97	68.20	-7.23	peak

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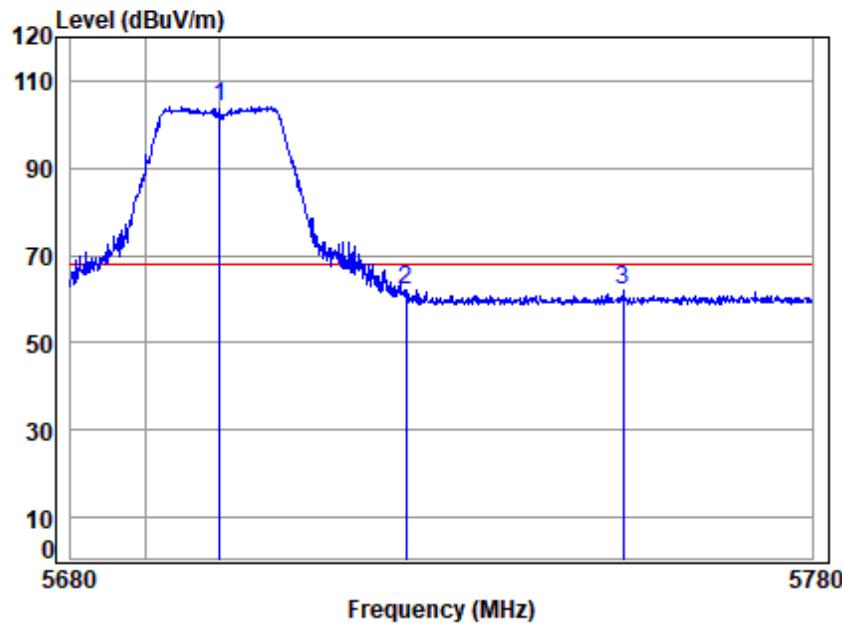
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Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5700 Band edge  
: 5G WIFI 11A

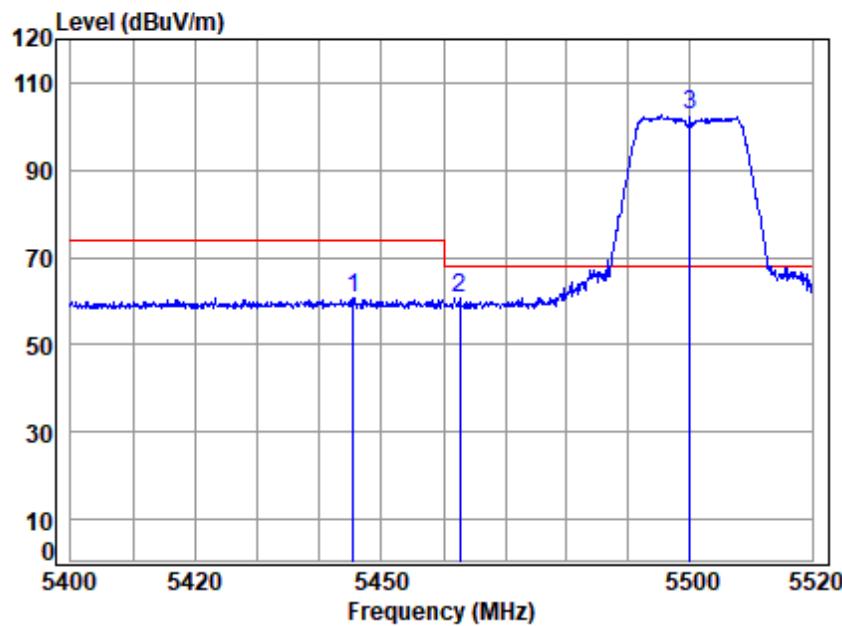
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5700.000	19.44	34.30	31.56	82.05	104.23	68.20	36.03 Peak
2 5725.000	19.46	34.25	31.57	40.07	62.21	68.20	-5.99 Peak
3 5754.334	19.48	34.21	31.59	40.12	62.22	68.20	-5.98 Peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5500 Band edge  
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark	
				dB	dB/m	dB	dBuV	dBuV/m	dBuV/m
1	5445.409	19.24	34.69	31.43	38.30	60.80	74.00	-13.20	peak
2	5462.671	19.26	34.65	31.44	38.38	60.85	68.20	-7.35	peak
3 p	5500.000	19.31	34.50	31.46	80.22	102.57	68.20	34.37	peak

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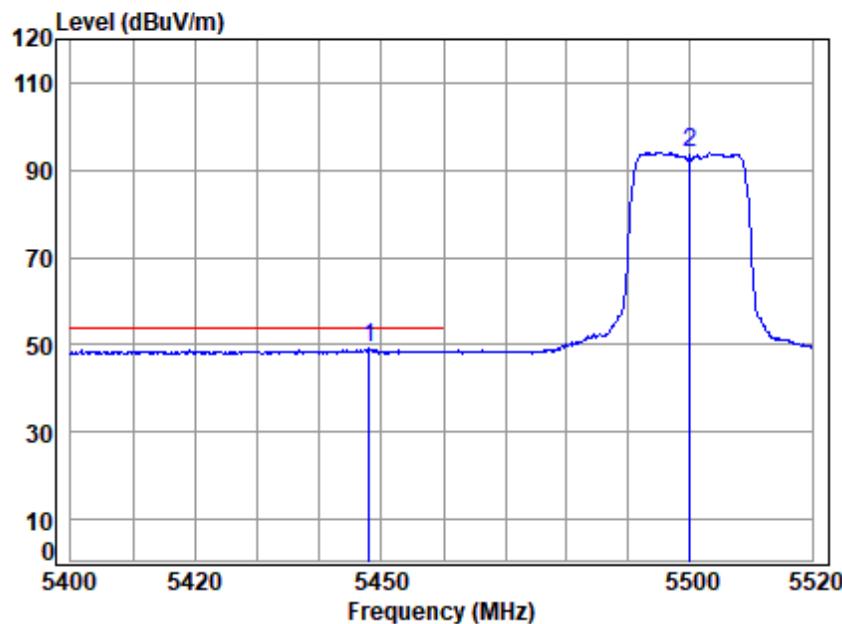
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5500 Band edge  
: 5G WIFI 11AC20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5448.043	19.24	34.70	31.44	26.61	49.11	54.00	-4.89 Average
2 5500.000	19.31	34.50	31.46	71.79	94.14	-----	----- Average

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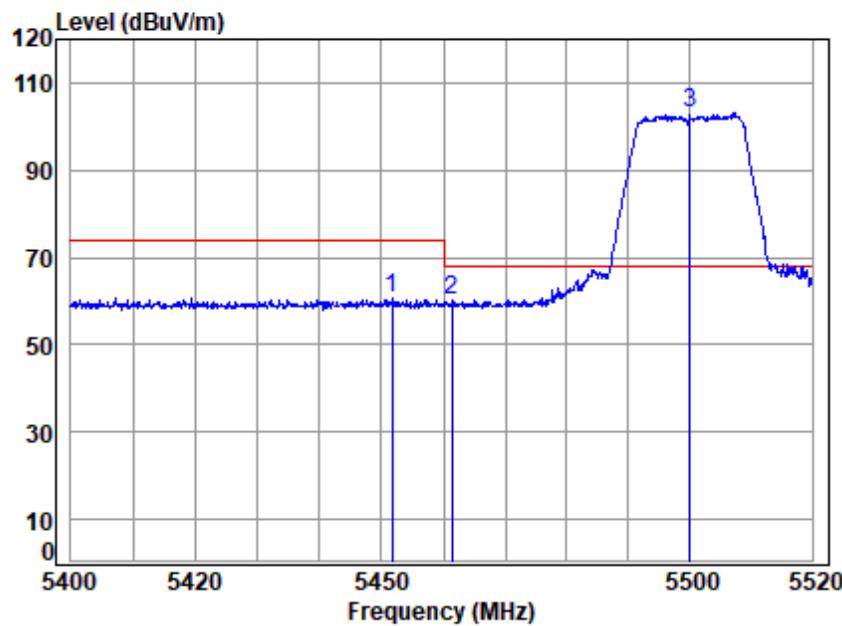
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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5500 Band edge  
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Line	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5451.636	19.25	34.69	31.44	38.38	60.88	74.00	-13.12	Peak
2	5461.351	19.26	34.65	31.44	37.68	60.15	68.20	-8.05	peak
3 p	5500.000	19.31	34.50	31.46	80.63	102.98	68.20	34.78	Peak



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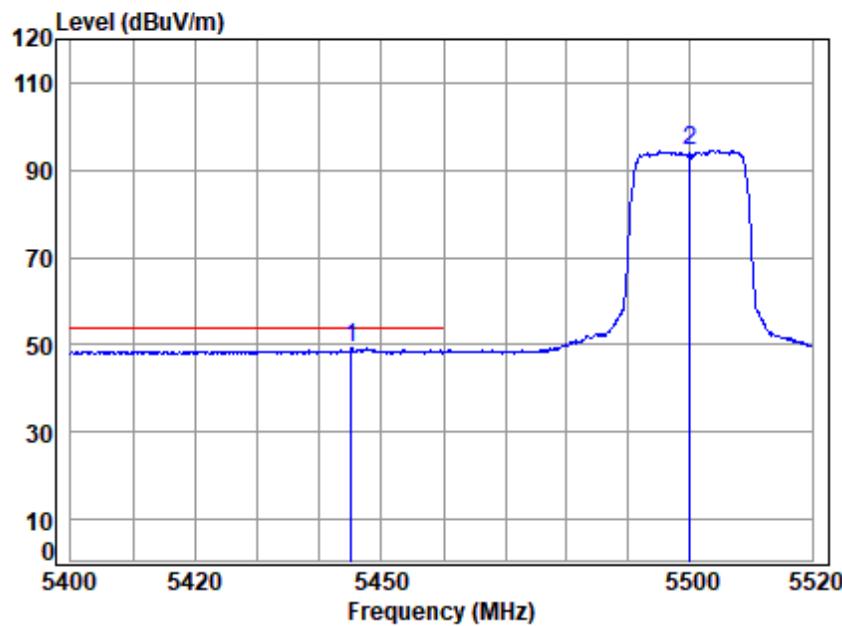
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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5500 Band edge  
: 5G WIFI 11AC20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5445.170	19.24	34.69	31.43	26.77	49.27	54.00	-4.73 Average
2 5500.000	19.31	34.50	31.46	72.09	94.44	-----	----- Average

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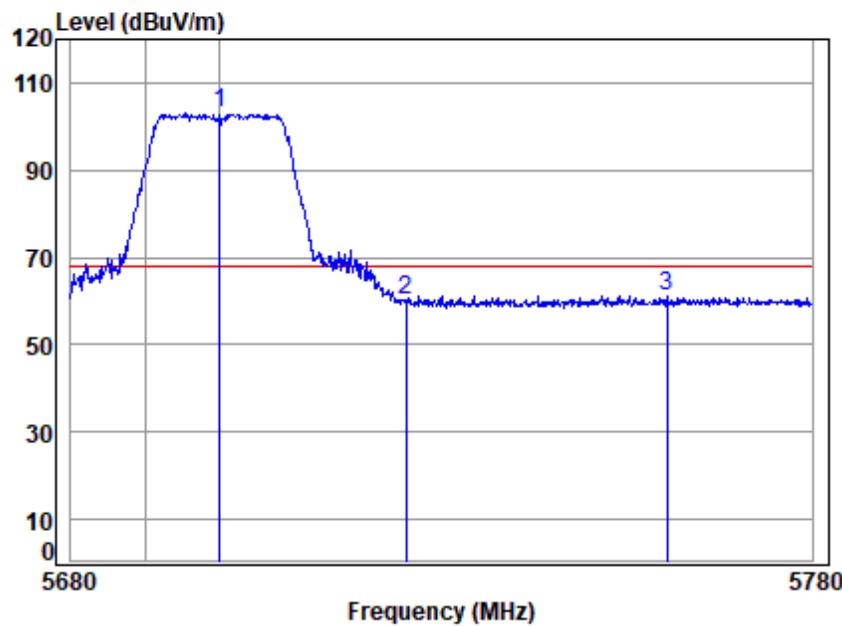
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5700 Band edge  
: 5G WIFI 11AC20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5700.000	19.44	34.30	31.56	80.87	103.05	68.20	34.85 peak
2 5725.000	19.46	34.25	31.57	38.28	60.42	68.20	-7.78 peak
3 5760.262	19.48	34.22	31.59	39.18	61.29	68.20	-6.91 peak

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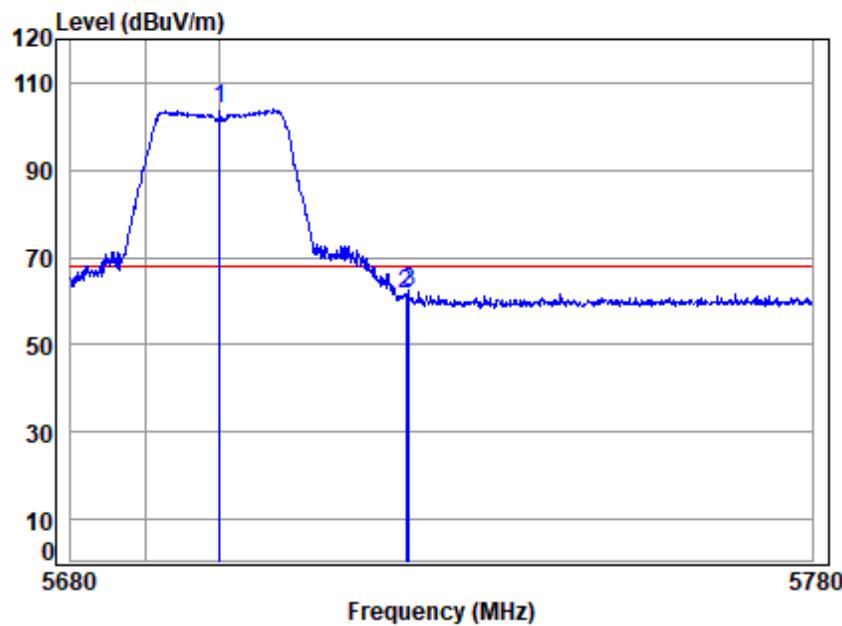
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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5700 Band edge  
: 5G WIFI 11AC20

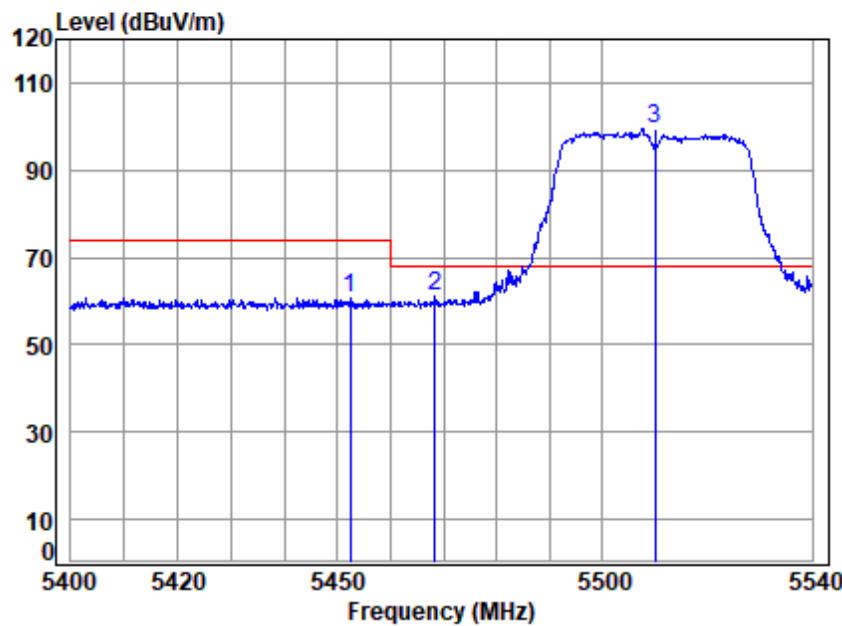
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5700.000	19.44	34.30	31.56	81.73	103.91	68.20	35.71 Peak
2 5725.000	19.46	34.25	31.57	39.53	61.67	68.20	-6.53 Peak
3 5725.483	19.46	34.25	31.57	40.08	62.22	68.20	-5.98 Peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5510 Band edge  
: 5G WIFI 11AC40

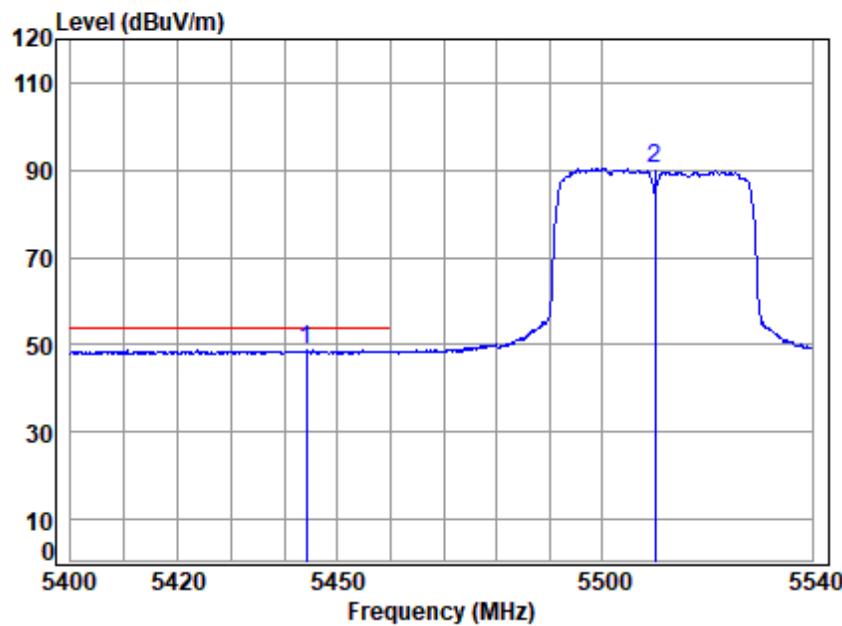
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	5452.360	19.25	34.69	31.44	38.23	60.73	74.00	-13.27 peak
2	5468.292	19.27	34.63	31.45	38.55	61.00	68.20	-7.20 peak
3 p	5510.000	19.32	34.54	31.47	77.21	99.60	68.20	31.40 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5510 Band edge  
: 5G WIFI 11AC40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5444.132	19.24	34.69	31.43	26.40	48.90	54.00	-5.10 Average
2 5510.000	19.32	34.54	31.47	68.10	90.49	-----	----- Average

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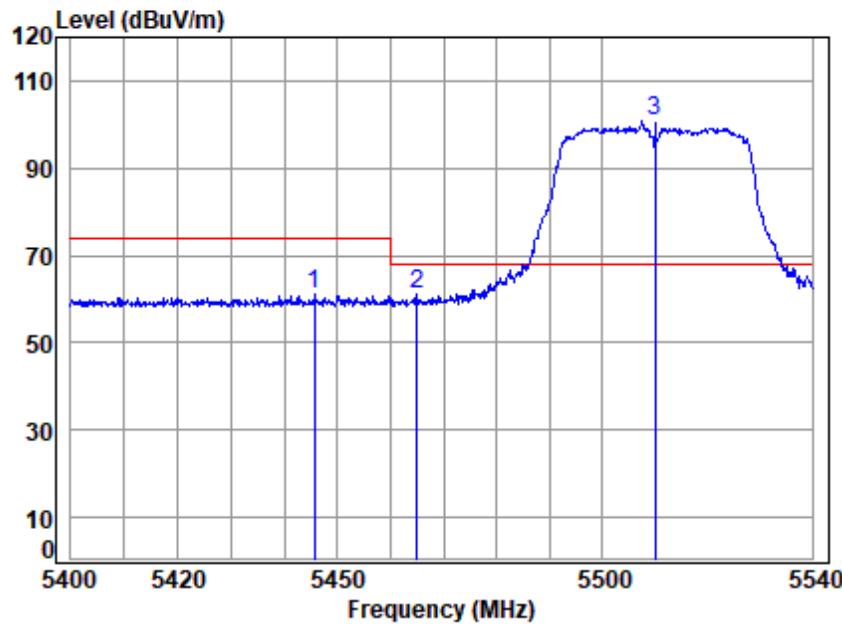
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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5510 Band edge  
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5445.665	19.24	34.69	31.43	38.63	61.13	74.00	-12.87	Peak
2	5464.934	19.26	34.64	31.44	38.49	60.95	68.20	-7.25	peak
3 p	5510.000	19.32	34.54	31.47	78.44	100.83	68.20	32.63	Peak

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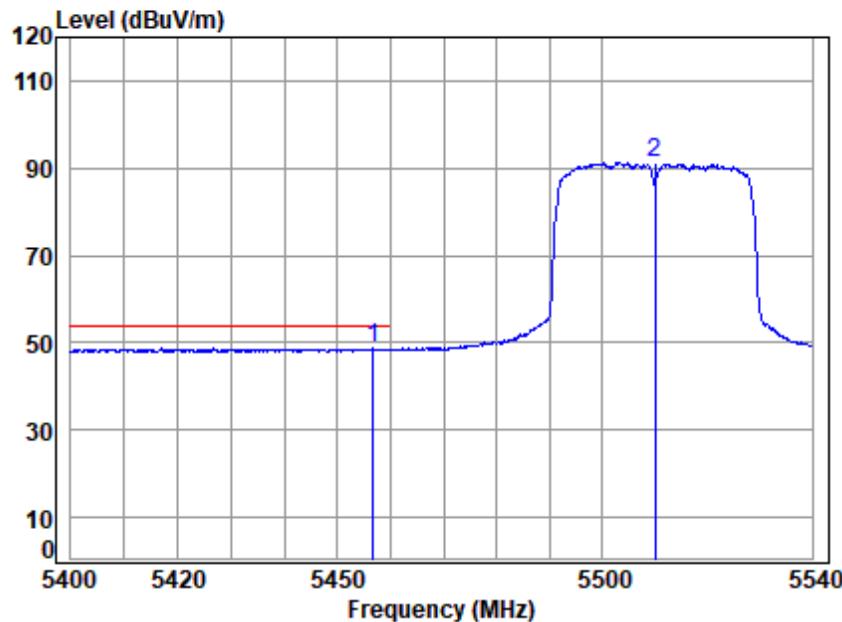
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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5510 Band edge  
: 5G WIFI 11AC40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5456.688	19.25	34.67	31.44	26.21	48.69	54.00	-5.31 Average
2 5510.000	19.32	34.54	31.47	68.78	91.17	-----	----- Average

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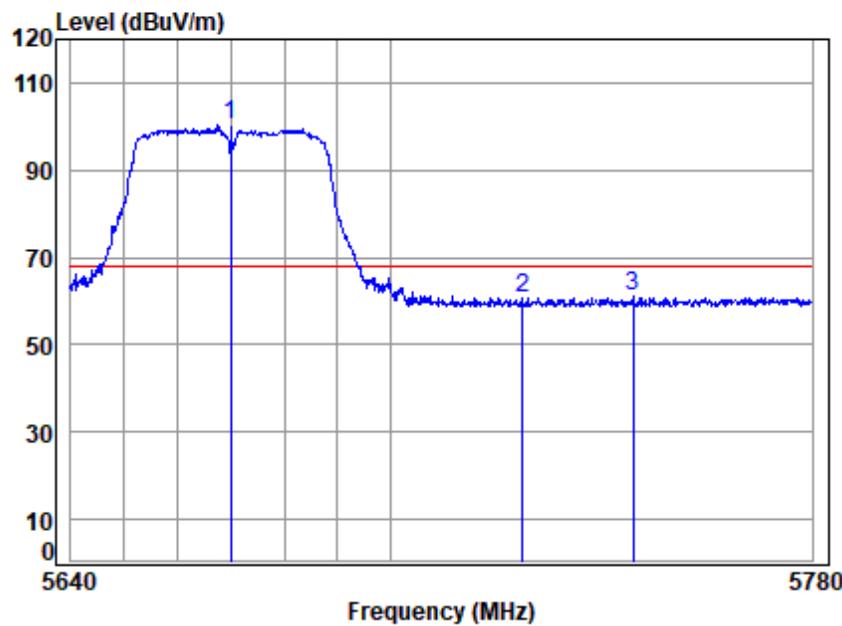
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5670 Band edge  
: 5G WIFI 11AC40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5670.000	19.42	34.36	31.54	78.00	100.24	68.20	32.04 peak
2 5725.000	19.46	34.25	31.57	38.70	60.84	68.20	-7.36 peak
3 5745.805	19.47	34.21	31.58	38.84	60.94	68.20	-7.26 peak

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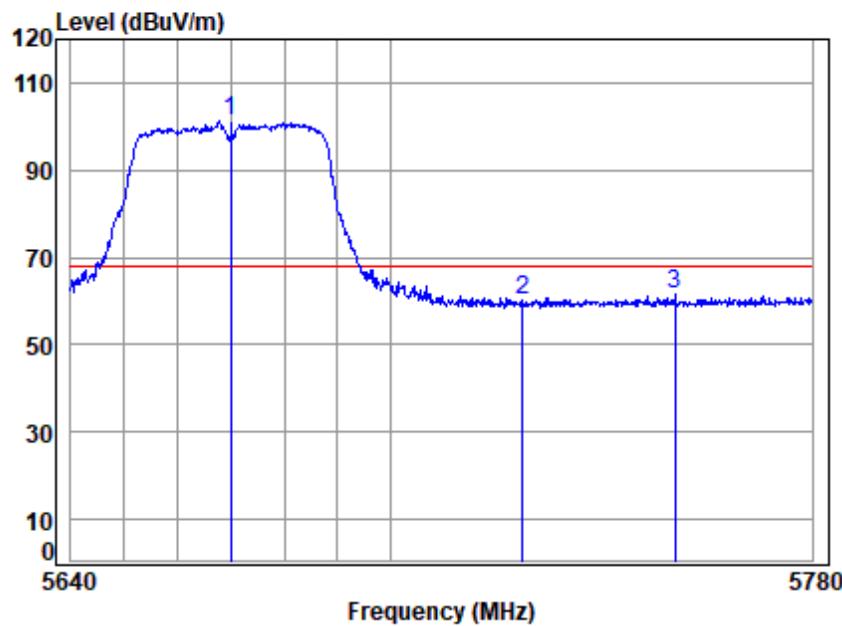
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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5670 Band edge  
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5670.000	19.42	34.36	31.54	79.10	101.34	68.20	33.14	Peak
2 5725.000	19.46	34.25	31.57	38.25	60.39	68.20	-7.81	Peak
3 5753.840	19.48	34.21	31.59	39.52	61.62	68.20	-6.58	Peak

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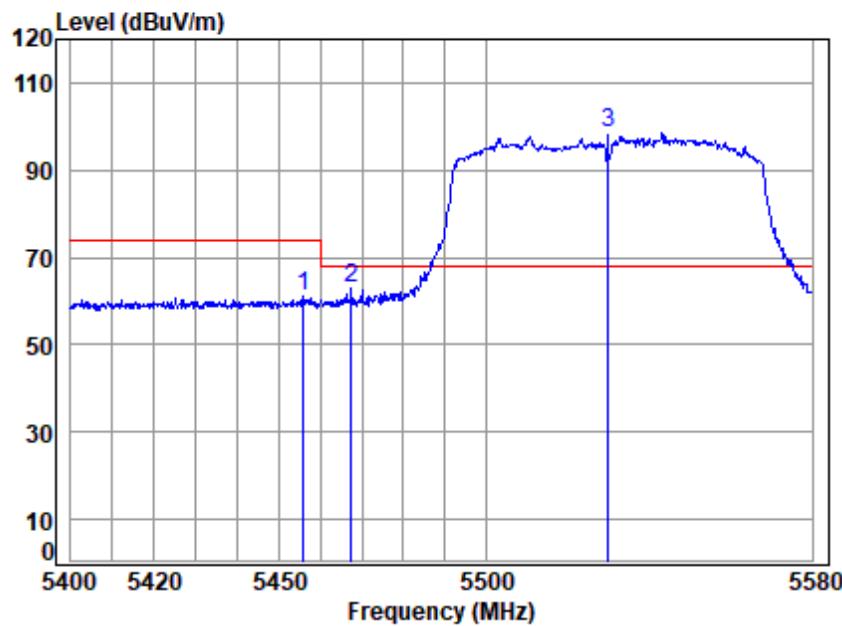
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5530 Band edge  
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Line	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5455.886	19.25	34.68	31.44	38.79	61.28	74.00	-12.72 peak
2	5467.526	19.27	34.63	31.45	40.44	62.89	68.20	-5.31 peak
3 p	5530.000	19.33	34.62	31.48	76.16	98.63	68.20	30.43 peak

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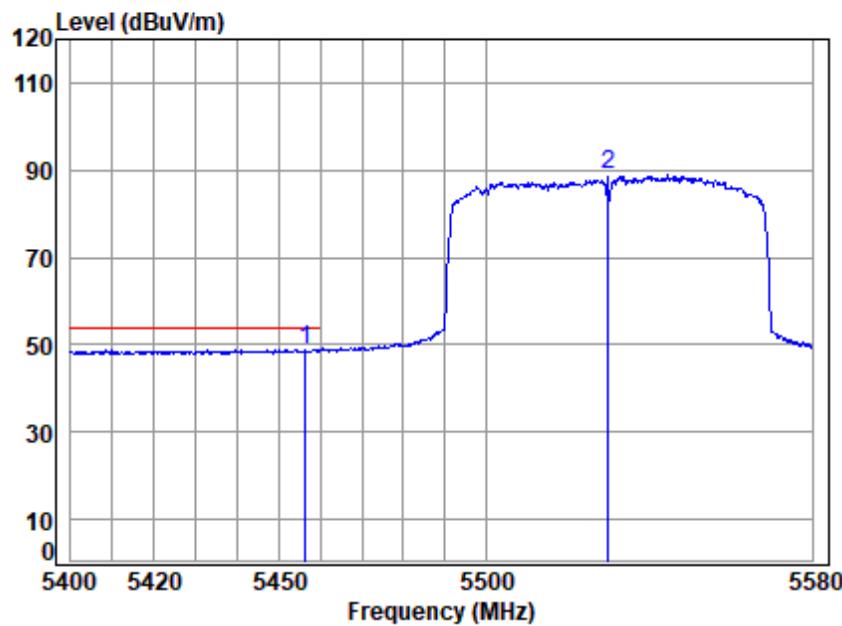
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5530 Band edge  
: 5G WIFI 11AC80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5456.422	19.25	34.67	31.44	26.46	48.94	54.00	-5.06	Average
2 5530.000	19.33	34.62	31.48	66.28	88.75	-----	-----	Average

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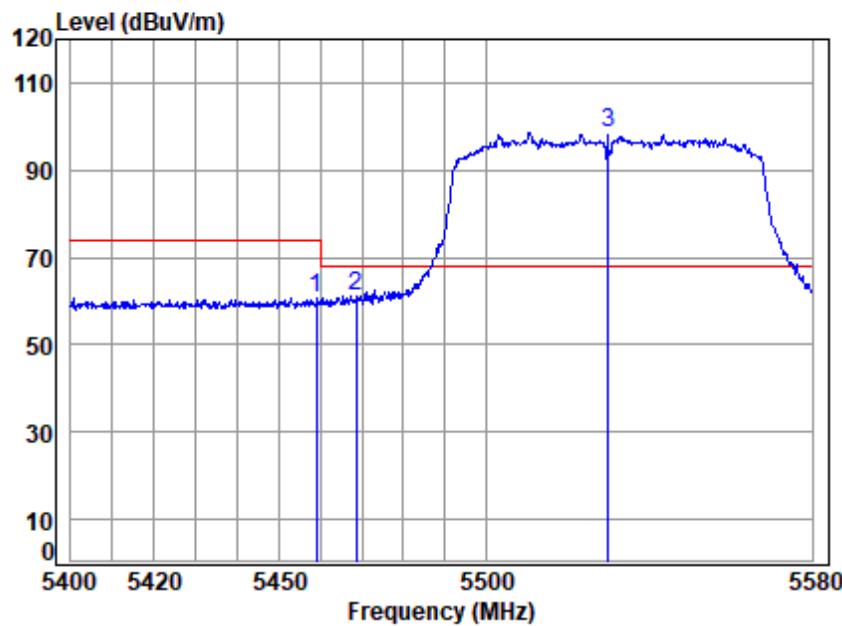
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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5530 Band edge  
: 5G WIFI 11AC80

		Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5459.107	19.26	34.66	31.44	38.25	60.73	74.00	-13.27	Peak
2	5468.602	19.27	34.63	31.45	38.87	61.32	68.20	-6.88	peak
3 p	5530.000	19.33	34.62	31.48	76.04	98.51	68.20	30.31	Peak

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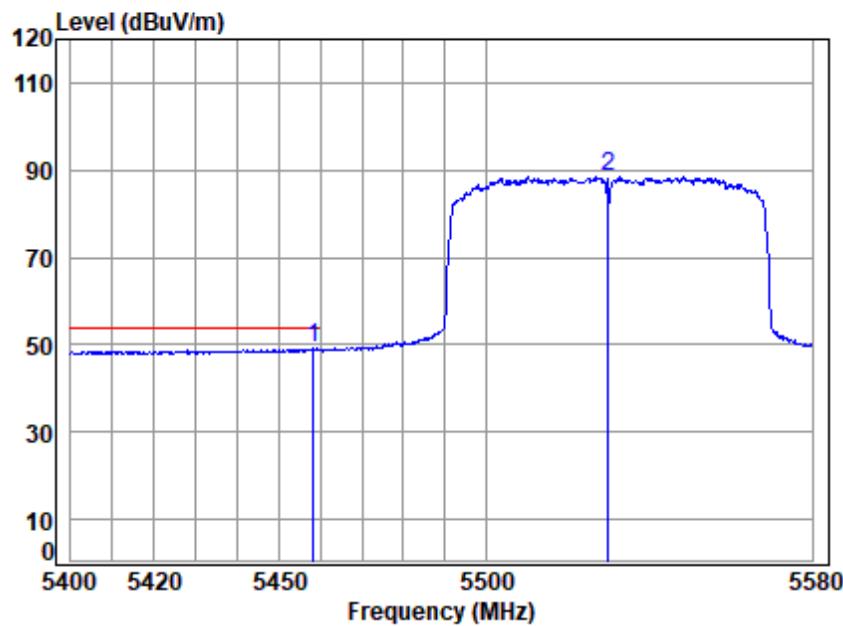
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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5530 Band edge  
: 5G WIFI 11AC80

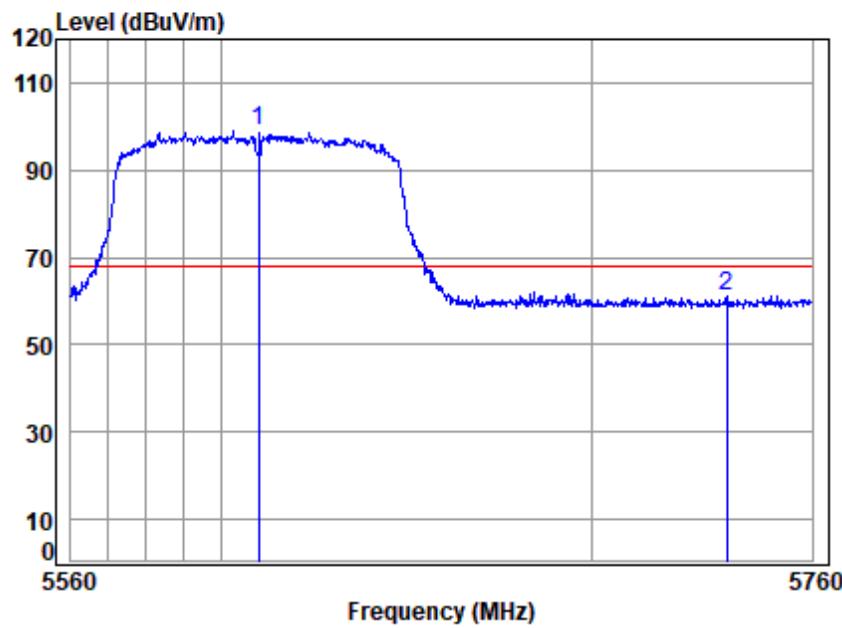
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 q 5458.391	19.26	34.67	31.44	26.81	49.30	54.00	-4.70 Average
2 5530.000	19.33	34.62	31.48	65.89	88.36	-----	----- Average

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5610 Band edge  
: 5G WIFI 11AC80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5610.000	19.38	34.64	31.52	76.60	99.10	68.20	30.90	peak
2 5736.639	19.46	34.23	31.58	38.94	61.05	68.20	-7.15	peak

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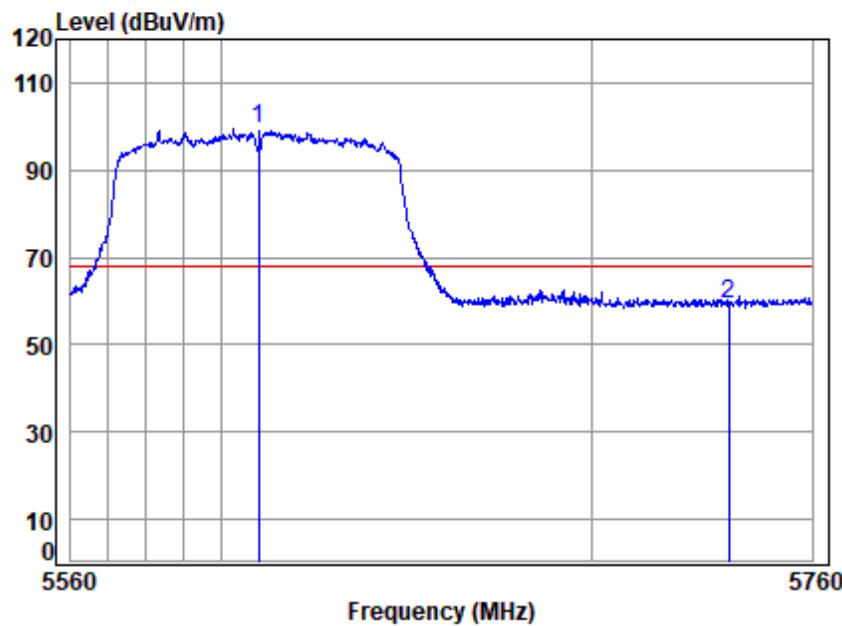
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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5610 Band edge  
: 5G WIFI 11AC80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5610.000	19.38	34.64	31.52	77.17	99.67	68.20	31.47	Peak
2 5737.044	19.47	34.23	31.58	37.37	59.49	68.20	-8.71	Peak

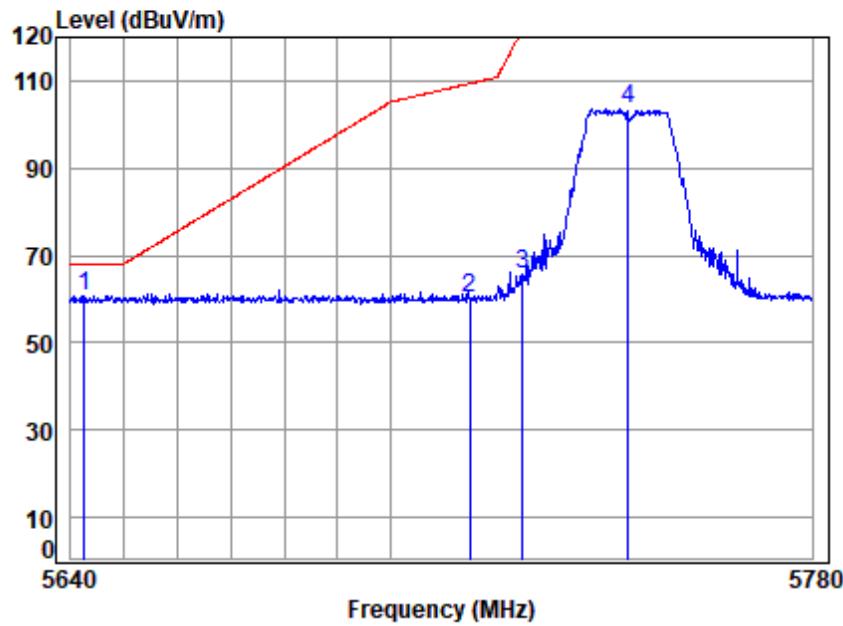
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5745 Band edge  
: 5G WIFI 11A

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5642.490	19.40	34.45	31.53	38.46	60.78	68.20	-7.42 peak
2 5715.000	19.45	34.27	31.57	37.99	60.14	109.40	-49.26 peak
3 5725.000	19.46	34.25	31.57	43.78	65.92	122.20	-56.28 peak
4 5745.000	19.47	34.21	31.58	81.55	103.65	-----	----- peak

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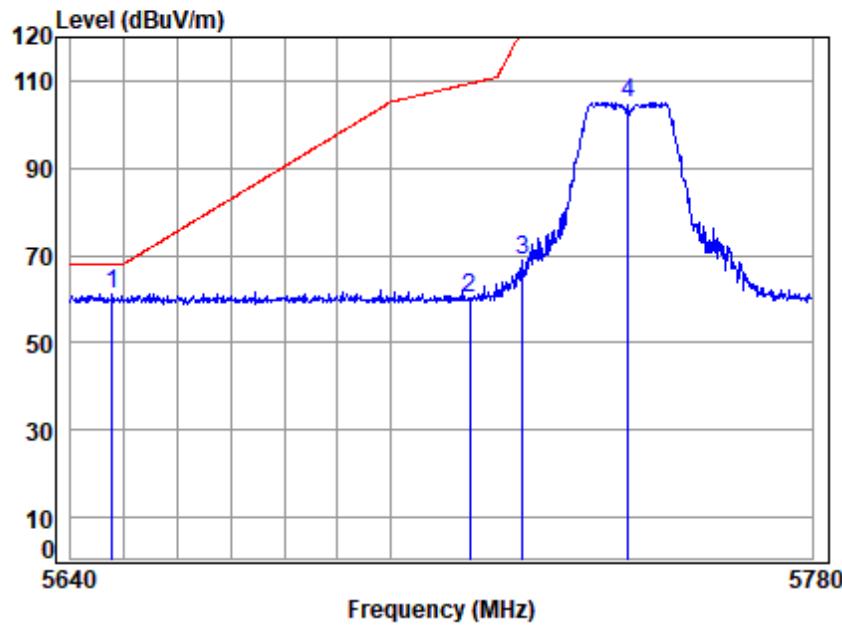
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Test Mode: 18; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5745 Band edge  
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level	Level	dBuV	dBuV/m	dBuV/m
1 p 5647.750	19.41	34.41	31.53	38.74	61.03	68.20	-7.17	peak
2 5715.000	19.45	34.27	31.57	37.92	60.07	109.40	-49.33	peak
3 5725.000	19.46	34.25	31.57	46.65	68.79	122.20	-53.41	peak
4 5745.000	19.47	34.21	31.58	82.93	105.03	-----	-----	peak

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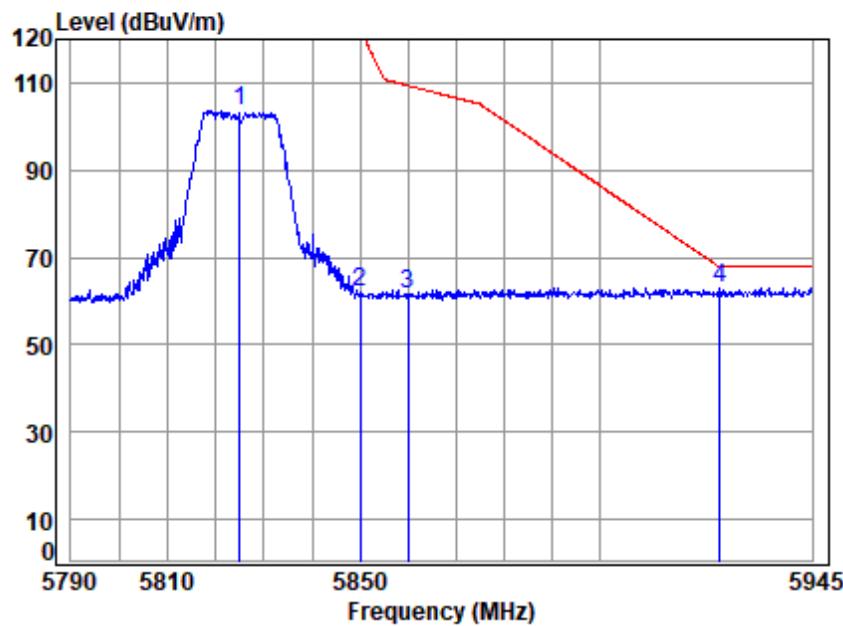
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5825 Band edge  
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5825.000	19.52	34.35	31.62	81.32	103.57	-----	-----	peak
2 5850.000	19.54	34.40	31.63	39.69	62.00	122.20	-60.20	peak
3 5860.000	19.54	34.44	31.64	39.37	61.71	109.40	-47.69	peak
4 p 5925.400	19.58	34.65	31.67	40.51	63.07	68.20	-5.13	peak

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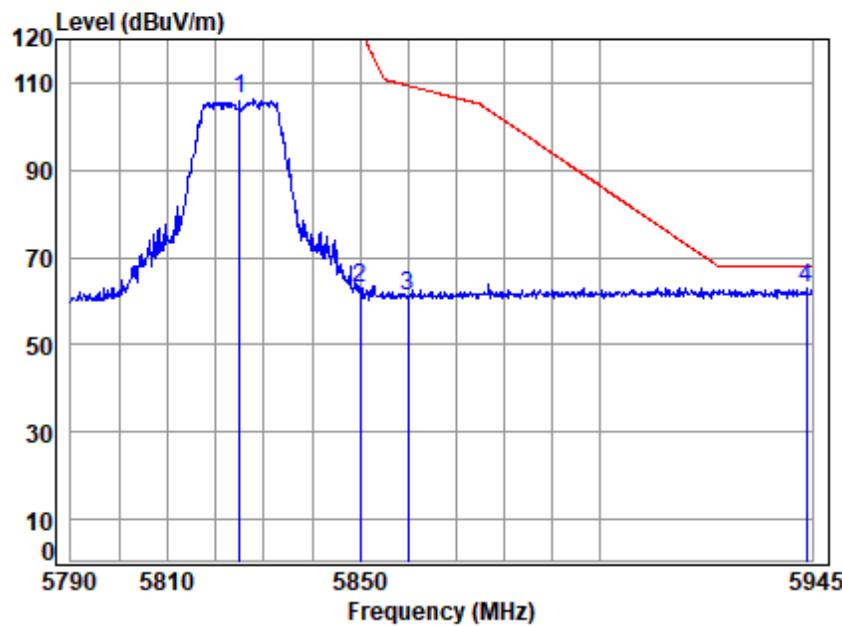
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Test Mode: 18; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5825 Band edge  
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
MHz									
1	5825.000	19.52	34.35	31.62	83.91	106.16	-----	-----	peak
2	5850.000	19.54	34.40	31.63	40.81	63.12	122.20	-59.08	peak
3	5860.000	19.54	34.44	31.64	38.77	61.11	109.40	-48.29	peak
4 p	5943.744	19.60	34.69	31.67	40.35	62.97	68.20	-5.23	peak

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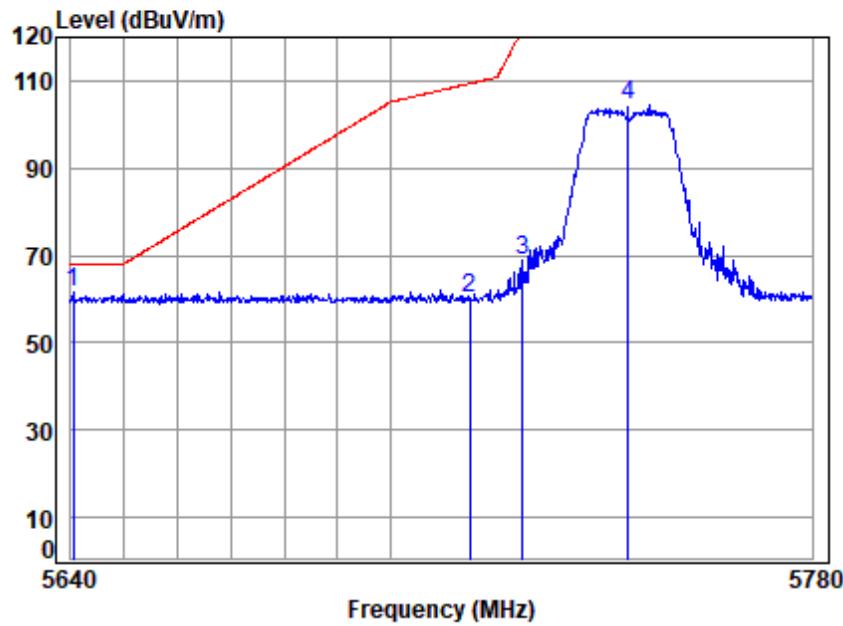
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5745 Band edge  
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5640.553	19.40	34.46	31.53	39.08	61.41	68.20	-6.79	peak
2 5715.000	19.45	34.27	31.57	38.00	60.15	109.40	-49.25	peak
3 5725.000	19.46	34.25	31.57	46.84	68.98	122.20	-53.22	peak
4 5745.000	19.47	34.21	31.58	82.18	104.28	-----	-----	peak

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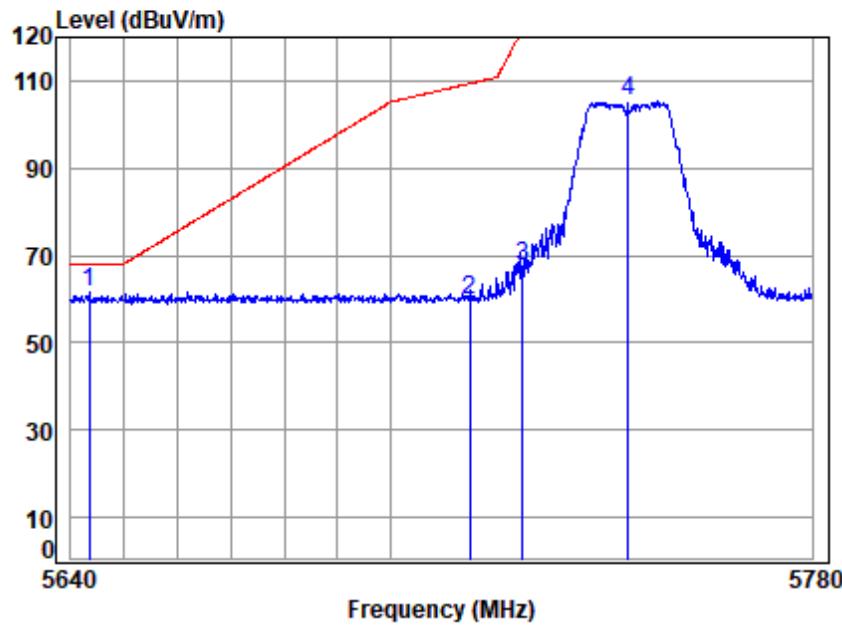
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5745 Band edge  
: 5G WIFI 11AC20

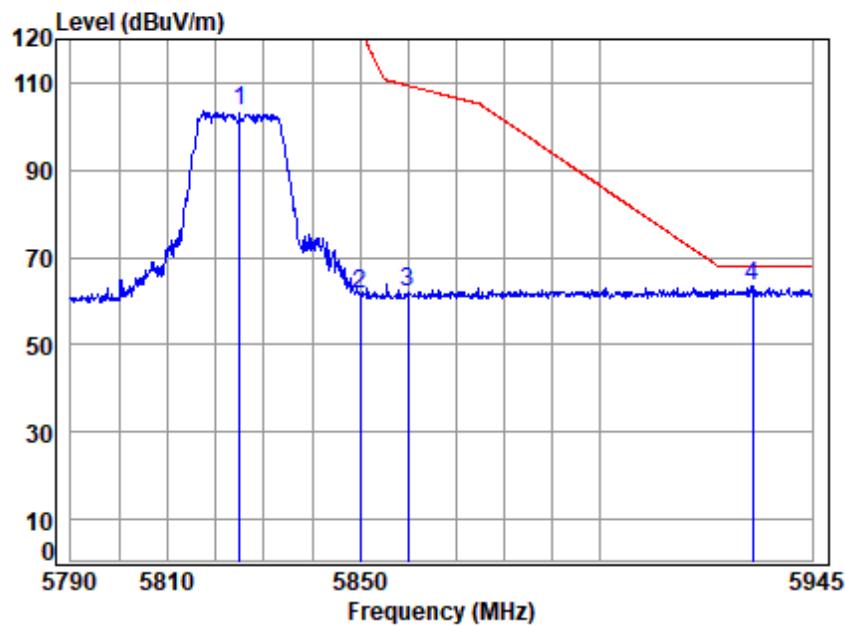
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5643.458	19.40	34.44	31.53	39.11	61.42	68.20	-6.78 peak
2 5715.000	19.45	34.27	31.57	37.63	59.78	109.40	-49.62 peak
3 5725.000	19.46	34.25	31.57	45.35	67.49	122.20	-54.71 peak
4 5745.000	19.47	34.21	31.58	83.19	105.29	-----	----- peak

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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5825 Band edge  
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
MHz									
1	5825.000	19.52	34.35	31.62	81.34	103.59	-----	-----	peak
2	5850.000	19.54	34.40	31.63	39.31	61.62	122.20	-60.58	peak
3	5860.000	19.54	34.44	31.64	39.51	61.85	109.40	-47.55	peak
4 p	5932.449	19.59	34.66	31.67	40.70	63.28	68.20	-4.92	peak

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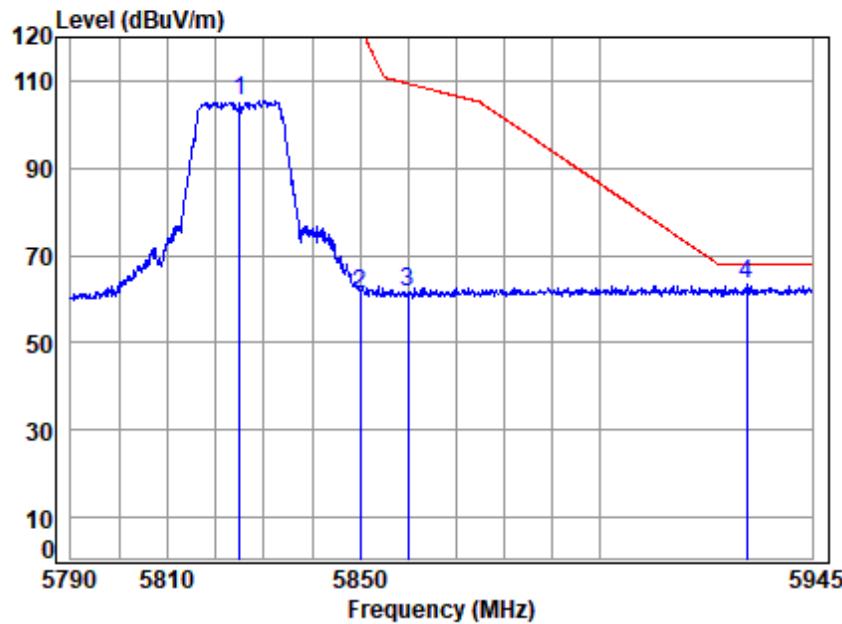
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5825 Band edge  
: 5G WIFI 11AC20

		Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	Freq MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	19.52	34.35	31.62	83.08	105.33	-----	-----	peak
2	5850.000	19.54	34.40	31.63	38.99	61.30	122.20	-60.90	peak
3	5860.000	19.54	34.44	31.64	39.04	61.38	109.40	-48.02	peak
4 p	5931.195	19.59	34.66	31.67	40.66	63.24	68.20	-4.96	peak

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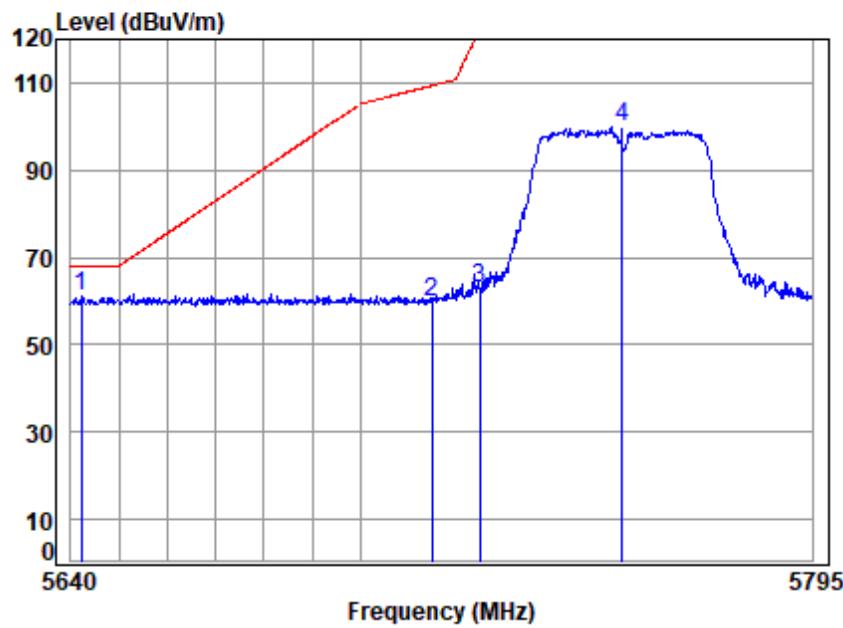
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5755 Band edge  
: 5G WIFI 11AC40

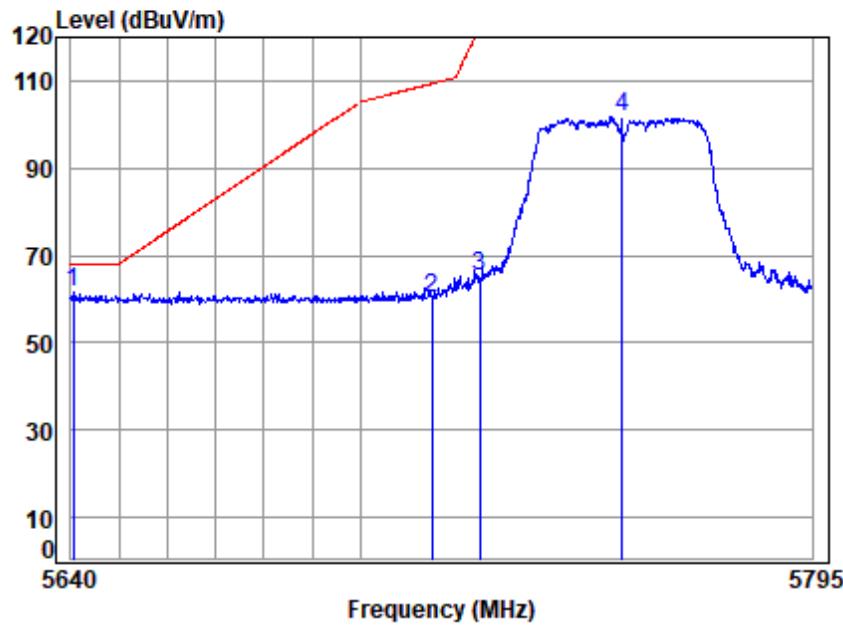
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5642.141	19.40	34.45	31.53	38.92	61.24	68.20	-6.96 peak
2 5715.000	19.45	34.27	31.57	37.42	59.57	109.40	-49.83 peak
3 5725.000	19.46	34.25	31.57	41.03	63.17	122.20	-59.03 peak
4 5755.000	19.48	34.21	31.59	77.90	100.00	-----	----- peak

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Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

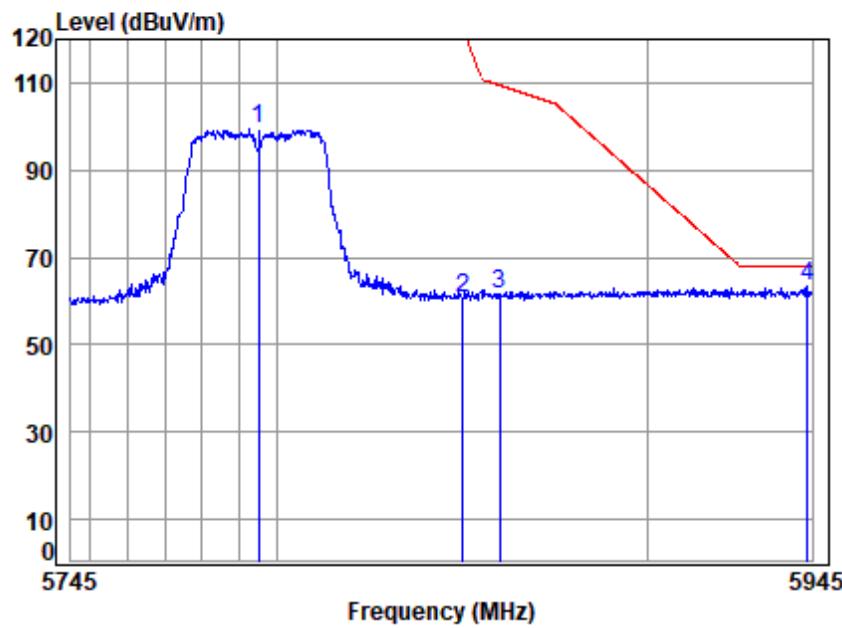
Job No : 01232AT

Mode : 5755 Band edge  
: 5G WIFI 11AC40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5640.459	19.40	34.46	31.53	39.09	61.42	68.20	-6.78 peak
2 5715.000	19.45	34.27	31.57	37.92	60.07	109.40	-49.33 peak
3 5725.000	19.46	34.25	31.57	43.20	65.34	122.20	-56.86 peak
4 5755.000	19.48	34.21	31.59	79.69	101.79	-----	----- peak



Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5795 Band edge  
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5795.000	19.50	34.29	31.60	77.10	99.29	-----	-----	peak
2 5850.000	19.54	34.40	31.63	38.40	60.71	122.20	-61.49	peak
3 5860.000	19.54	34.44	31.64	39.24	61.58	109.40	-47.82	peak
4 p 5943.779	19.60	34.69	31.67	40.65	63.27	68.20	-4.93	peak

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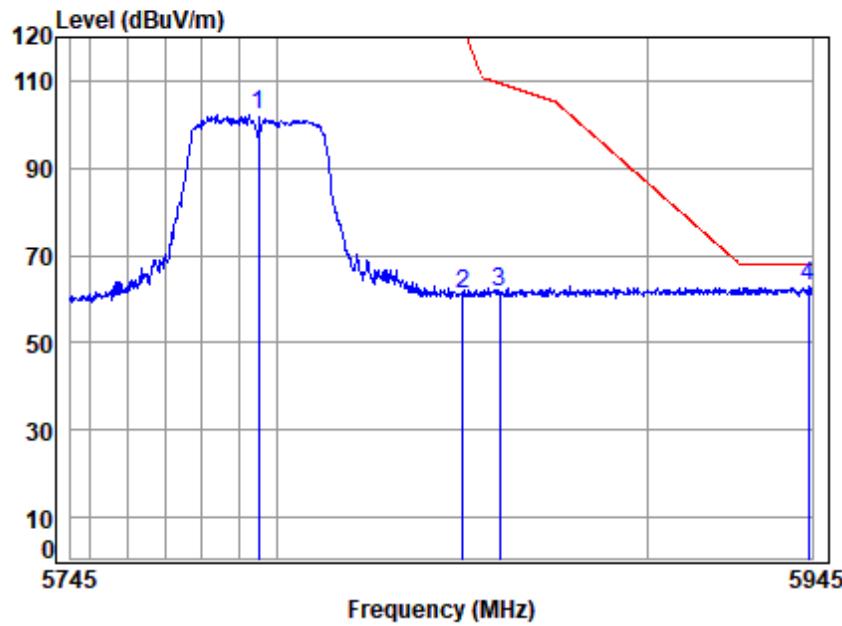
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5795 Band edge  
: 5G WIFI 11AC40

		Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.000	19.50	34.29	31.60	80.04	102.23	-----	-----	peak
2	5850.000	19.54	34.40	31.63	38.61	60.92	122.20	-61.28	peak
3	5860.000	19.54	34.44	31.64	39.03	61.37	109.40	-48.03	peak
4 p	5943.983	19.60	34.69	31.67	40.13	62.75	68.20	-5.45	peak

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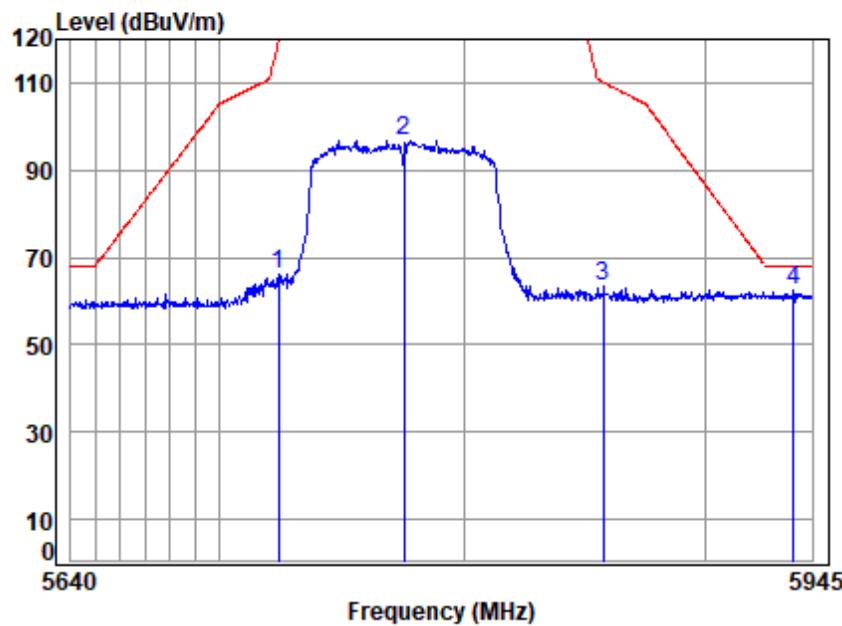
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5775 Band edge  
: 5G WIFI 11AC80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
MHz									
1	5723.787	19.46	34.25	31.57	44.07	66.21	119.44	-53.23	peak
2	5775.000	19.49	34.25	31.60	74.81	96.95	-----	-----	peak
3	5857.666	19.54	34.43	31.63	41.20	63.54	110.05	-46.51	peak
4 p	5937.178	19.59	34.67	31.67	39.96	62.55	68.20	-5.65	peak

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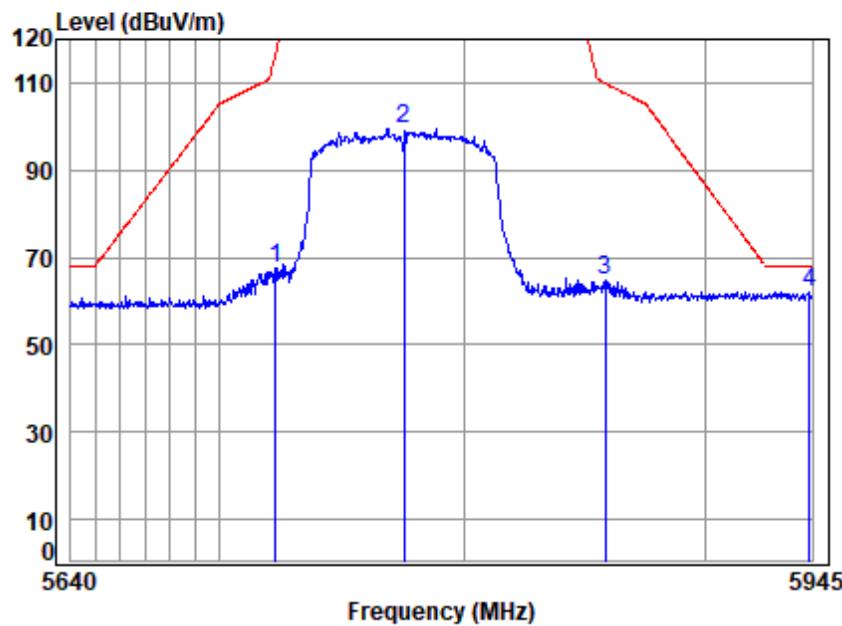
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 01232AT

Mode : 5775 Band edge  
: 5G WIFI 11AC80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
1	5722.582	19.46	34.25	31.57	45.58	67.72	116.69	-48.97	peak
2	5775.000	19.49	34.25	31.60	77.44	99.58	-----	-----	peak
3	5858.283	19.54	34.43	31.63	42.41	64.75	109.88	-45.13	peak
4 p	5943.748	19.60	34.69	31.67	39.27	61.89	68.20	-6.31	peak

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**7.3 Radiated Emissions (Below 1GHz)**

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

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Measurement Distance: 3m

Limit:

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

**7.3.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.1 °C      Humidity: 45.1 % RH      Atmospheric Pressure: 1020 mbar

**7.3.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Pre-scan	10	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	11	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	12	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	13	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 20/40/80, Only the data of worst case is recorded in the report.
Final test	15	Charge + TX mode (U-NII-1) _Keep the EUT in charging and continuously transmitting mode with all modulation types and being charged. All data rates for

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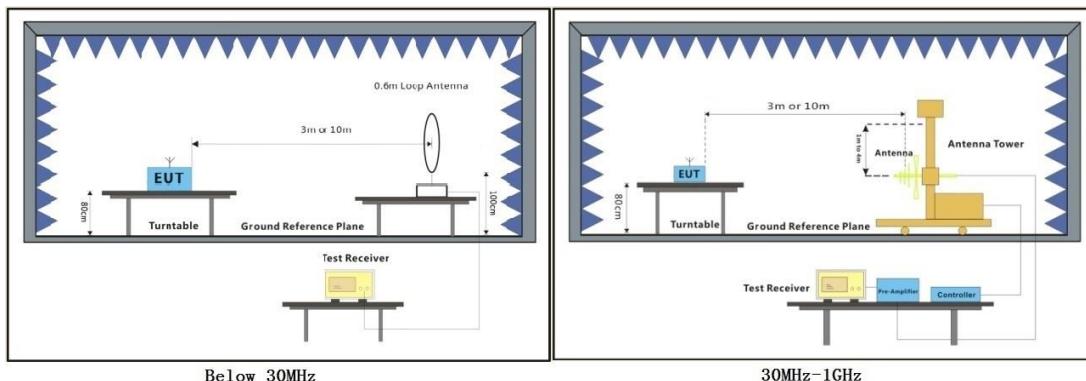
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		each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	16	Charge + TX mode (U-NII-2A) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	17	Charge + TX mode (U-NII-2C) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	18	Charge + TX mode (U-NII-3) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.

### 7.3.3 Test Setup Diagram



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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.

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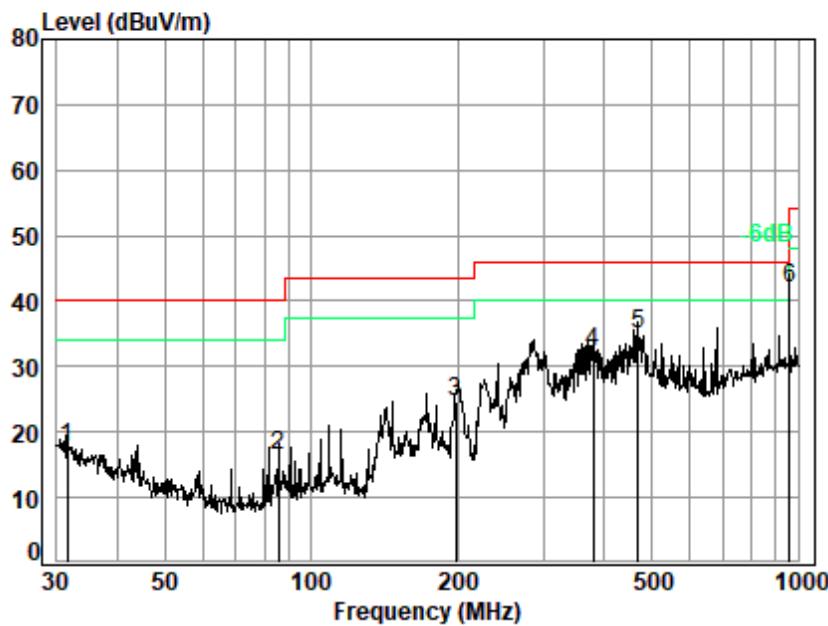
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Test Mode: 15; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 01232AT  
Test Mode: 15

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark	
					dB	dBuV	dBuV/m	dBuV/m	
MHz	dB/m	dB	dB	dB	dB	dB	dB	dB	
1	31.510	20.50	0.69	27.79	24.19	17.59	40.00	-22.41	QP
2	85.598	11.11	1.13	27.63	31.76	16.37	40.00	-23.63	QP
3	197.893	14.08	1.75	27.18	35.90	24.55	43.50	-18.95	QP
4	379.914	20.91	2.51	27.07	35.77	32.12	46.00	-13.88	QP
5	468.876	22.12	2.82	27.44	37.35	34.85	46.00	-11.15	QP
6 q	958.794	28.10	4.28	26.34	35.92	41.96	46.00	-4.04	QP

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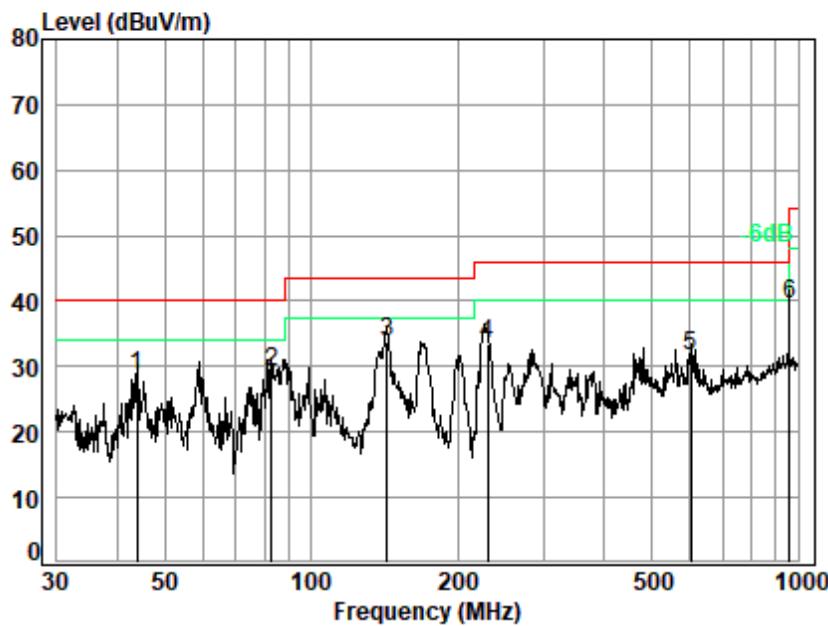
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Test Mode: 15; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 01232AT  
Test Mode: 15

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark
					MHz	dB/m	dB	dB
1	43.812	14.62	0.81	27.75	40.79	28.47	40.00	-11.53 QP
2	82.938	10.72	1.11	27.64	44.98	29.17	40.00	-10.83 QP
3	143.326	12.19	1.50	27.41	47.56	33.84	43.50	-9.66 QP
4	230.099	16.46	1.91	27.04	42.08	33.41	46.00	-12.59 QP
5	601.427	24.43	3.24	27.97	31.84	31.54	46.00	-14.46 QP
6 q	958.794	28.10	4.28	26.34	33.60	39.64	46.00	-6.36 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: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

Limit:

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

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

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

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

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

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

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

### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C      Humidity: 56.3 % RH      Atmospheric Pressure: 1020 mbar



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## 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	10	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	11	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	12	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	13	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 20/40/80, Only the data of worst case is recorded in the report.
Final test	15	Charge + TX mode (U-NII-1) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2A) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-2C) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Final test	18	Charge + TX mode (U-NII-3) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.

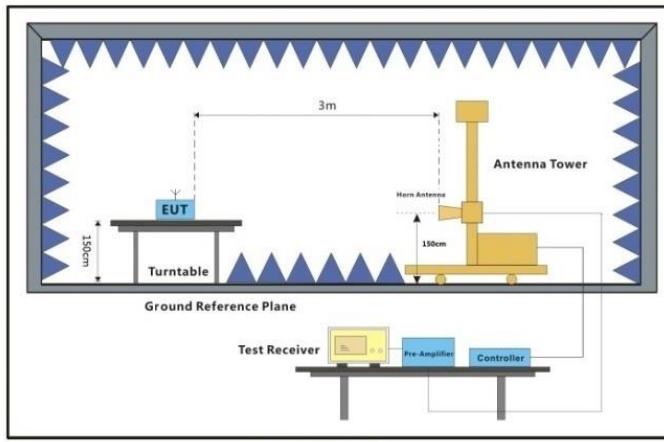
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### 7.4.3 Test Setup Diagram



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.
6. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
7. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle  $< 98\%$ ) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.

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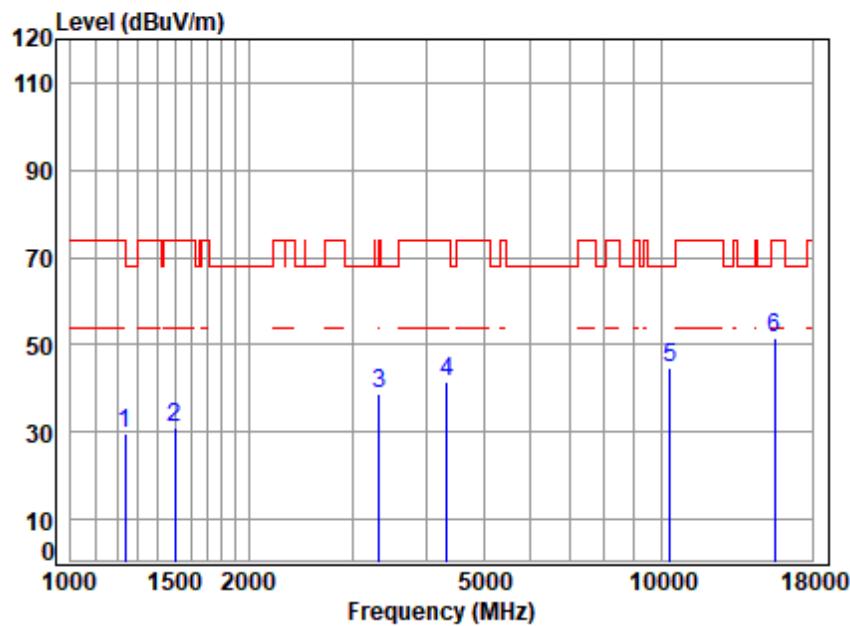
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5180 TX RSE  
Note : 5G WIFI 11A

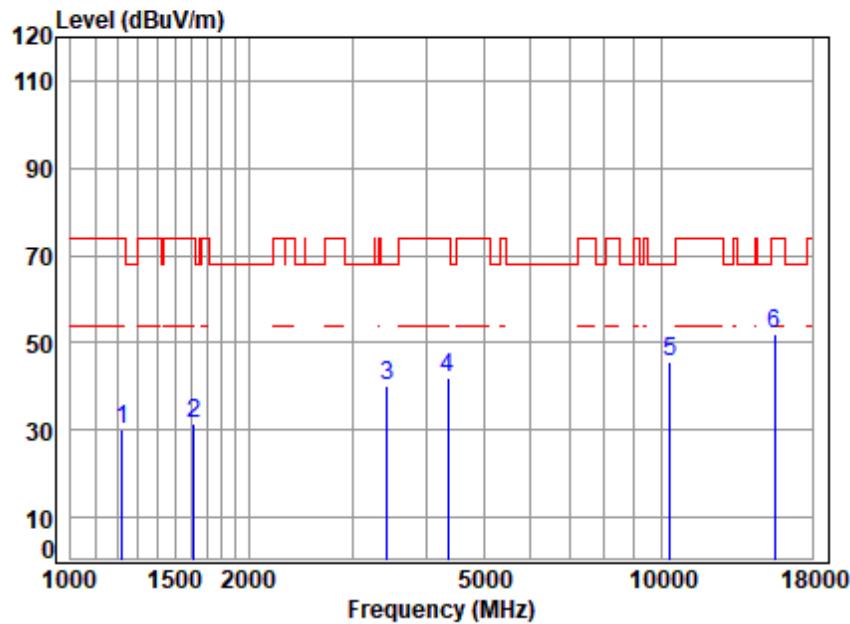
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1234.909	3.73	24.89	54.69	55.93	29.86	74.00	-44.14 peak
2	1503.119	4.04	26.81	54.78	55.10	31.17	74.00	-42.83 peak
3	3328.077	6.37	31.71	54.75	55.45	38.78	68.20	-29.42 peak
4	4341.886	7.07	34.34	54.26	54.58	41.73	74.00	-32.27 peak
5	10360.000	11.14	37.10	53.13	49.51	44.62	68.20	-23.58 peak
6	p15540.000	13.79	41.10	52.16	48.66	51.39	74.00	-22.61 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5180 TX RSE  
Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1220.714	3.71	24.69	54.69	56.41	30.12	74.00	-43.88 peak
2	1615.754	4.21	26.64	54.81	55.34	31.38	74.00	-42.62 peak
3	3435.590	6.47	31.97	54.67	56.48	40.25	68.20	-27.95 peak
4	4354.454	7.08	34.44	54.26	54.55	41.81	74.00	-32.19 peak
5	10360.000	11.14	37.10	53.13	50.45	45.56	68.20	-22.64 peak
6	p15540.000	13.79	41.10	52.16	49.24	51.97	74.00	-22.03 peak

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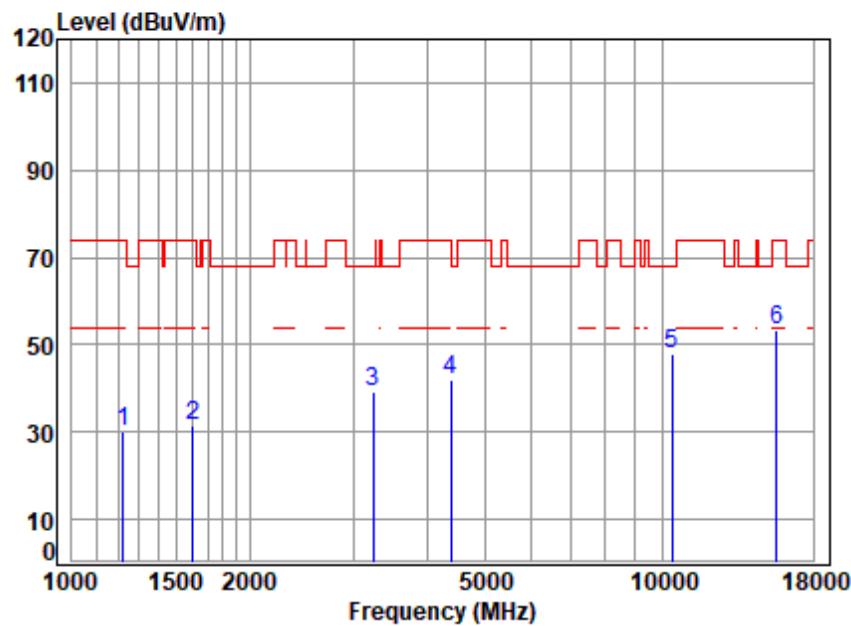
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5200 TX RSE  
Note : 5G WIFI 11A

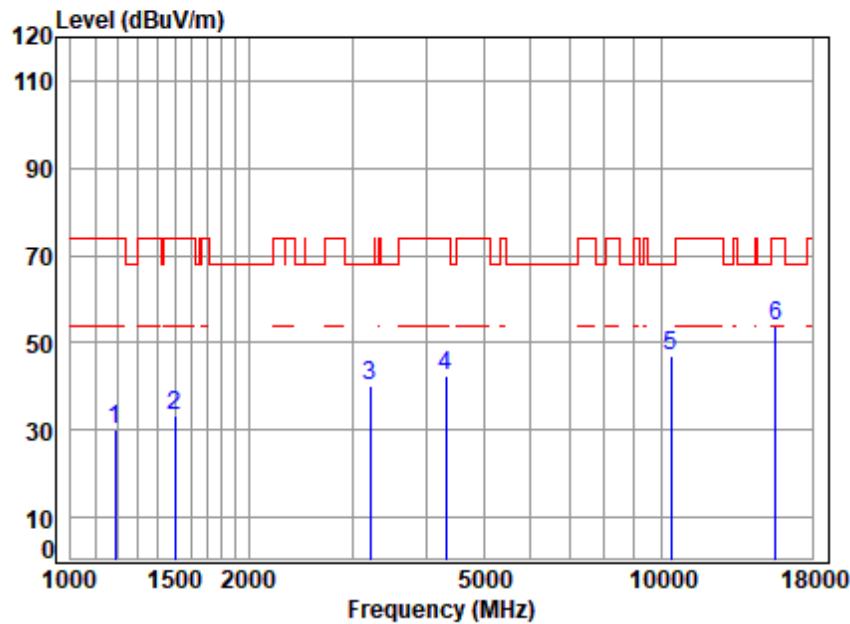
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1224.247	3.71	24.74	54.69	56.25	30.01	74.00	-43.99 peak
2	1601.804	4.19	26.78	54.80	55.35	31.52	74.00	-42.48 peak
3	3233.260	6.29	32.37	54.82	55.52	39.36	68.20	-28.84 peak
4	4379.699	7.11	34.64	54.26	54.37	41.86	74.00	-32.14 peak
5	10400.000	11.20	37.10	53.12	52.51	47.69	68.20	-20.51 peak
6	15600.000	13.86	41.10	52.11	50.41	53.26	74.00	-20.74 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5200 TX RSE  
Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1189.368	3.67	24.29	54.68	56.93	30.21	74.00	-43.79 peak
2	1503.119	4.04	26.81	54.78	57.39	33.46	74.00	-40.54 peak
3	3214.623	6.27	32.67	54.83	56.20	40.31	68.20	-27.89 peak
4	4316.859	7.04	34.13	54.27	55.61	42.51	74.00	-31.49 peak
5	10400.000	11.20	37.10	53.12	51.94	47.12	68.20	-21.08 peak
6	p15600.000	13.86	41.10	52.11	50.79	53.64	74.00	-20.36 peak

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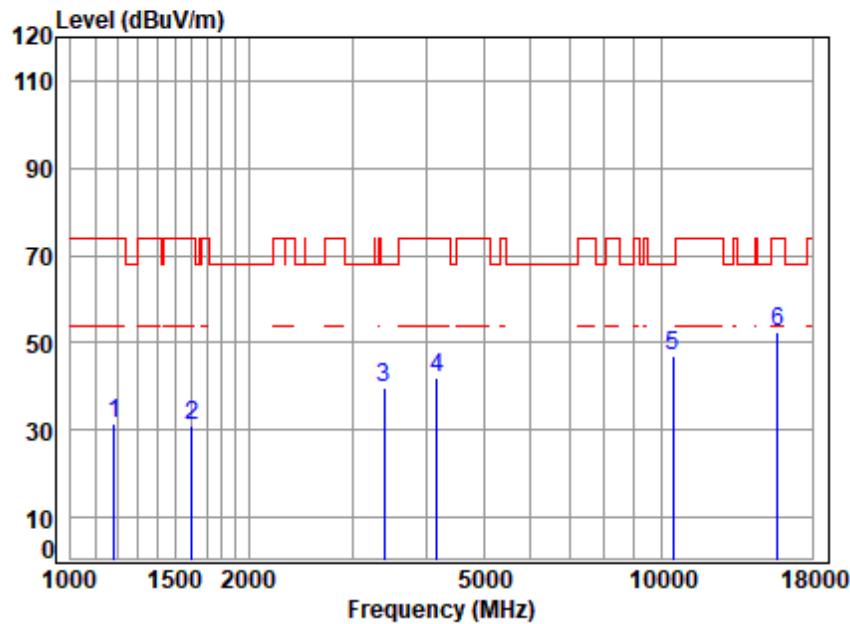
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5240 TX RSE  
Note : 5G WIFI 11A

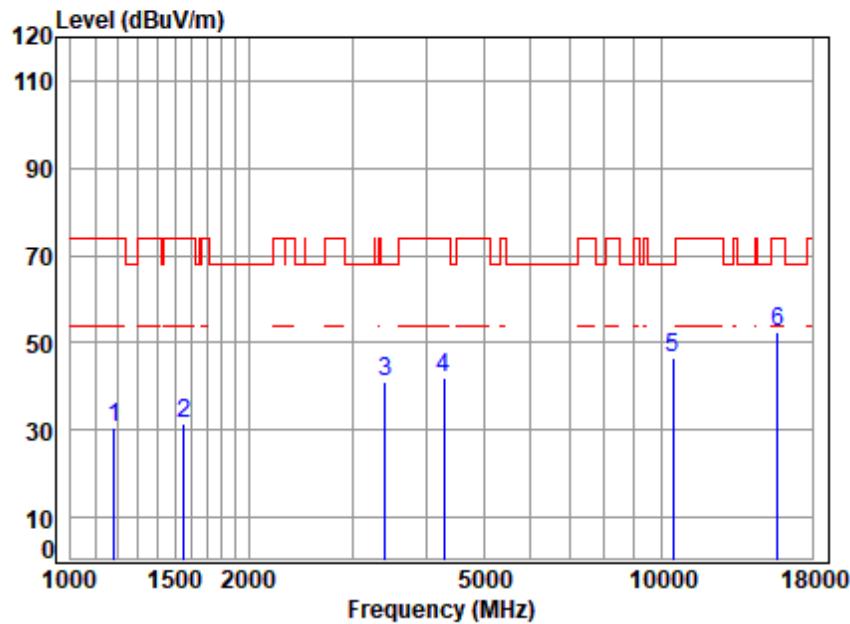
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1182.513	3.66	24.23	54.67	58.30	31.52	74.00	-42.48 peak
2	1606.441	4.19	26.74	54.81	55.09	31.21	74.00	-42.79 peak
3	3396.098	6.43	32.38	54.70	55.36	39.47	68.20	-28.73 peak
4	4169.698	6.86	33.80	54.28	55.56	41.94	74.00	-32.06 peak
5	10480.000	11.33	37.26	53.10	51.60	47.09	68.20	-21.11 peak
6	15720.000	14.01	41.22	52.02	49.30	52.51	74.00	-21.49 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5240 TX RSE  
Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1185.936	3.66	24.26	54.67	57.32	30.57	74.00	-43.43 peak
2	1556.169	4.12	26.98	54.79	55.39	31.70	74.00	-42.30 peak
3	3405.929	6.44	32.33	54.69	57.08	41.16	68.20	-27.04 peak
4	4291.977	7.01	33.97	54.27	55.30	42.01	74.00	-31.99 peak
5	10480.000	11.33	37.26	53.10	51.07	46.56	68.20	-21.64 peak
6	p15720.000	14.01	41.22	52.02	49.21	52.42	74.00	-21.58 peak

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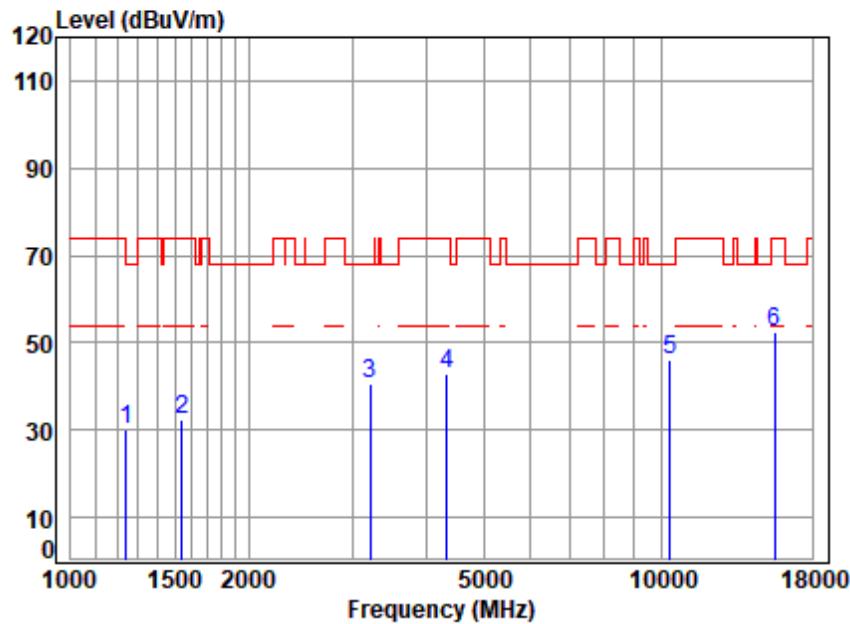
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5180 TX RSE  
Note : 5G WIFI 11AC20

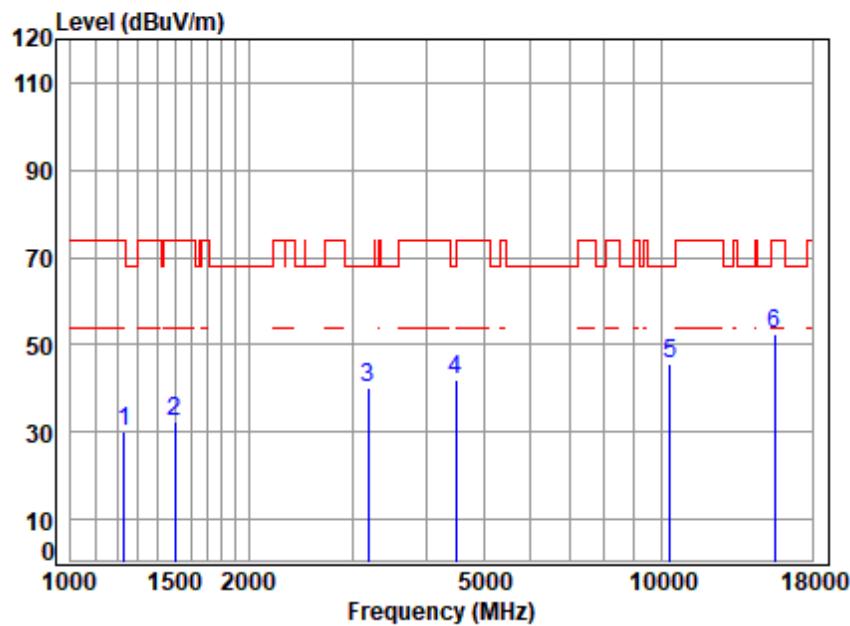
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1242.068	3.74	24.99	54.69	56.07	30.11	68.20	-38.09 peak
2	1542.733	4.10	26.97	54.79	55.95	32.23	74.00	-41.77 peak
3	3214.623	6.27	32.67	54.83	56.36	40.47	68.20	-27.73 peak
4	4329.354	7.05	34.23	54.26	55.67	42.69	74.00	-31.31 peak
5	10360.000	11.14	37.10	53.13	50.80	45.91	68.20	-22.29 peak
6	p15540.000	13.79	41.10	52.16	49.66	52.39	74.00	-21.61 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5180 TX RSE  
Note : 5G WIFI 11AC20

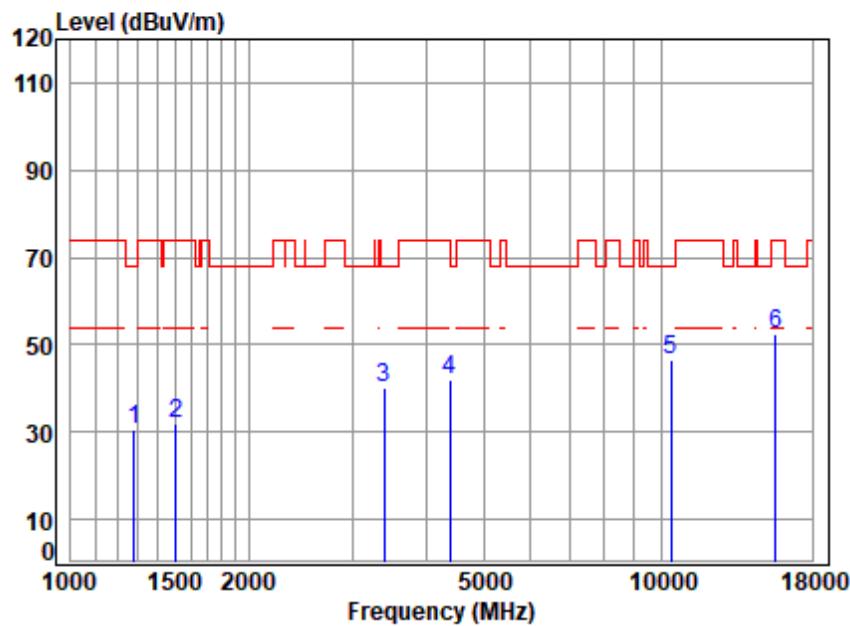
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1231.345	3.72	24.84	54.69	56.16	30.03	74.00	-43.97 peak
2	1498.781	4.04	26.77	54.78	56.17	32.20	74.00	-41.80 peak
3	3186.869	6.25	32.79	54.85	55.75	39.94	68.20	-28.26 peak
4	4482.150	7.23	33.81	54.25	55.32	42.11	68.20	-26.09 peak
5	10360.000	11.14	37.10	53.13	50.56	45.67	68.20	-22.53 peak
6	p15540.000	13.79	41.10	52.16	49.83	52.56	74.00	-21.44 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5200 TX RSE  
Note : 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1278.492	3.78	24.93	54.71	56.47	30.47	68.20	-37.73 peak
2 1507.470	4.05	26.83	54.78	55.69	31.79	74.00	-42.21 peak
3 3396.098	6.43	32.38	54.70	56.27	40.38	68.20	-27.82 peak
4 4392.376	7.13	34.74	54.26	54.42	42.03	74.00	-31.97 peak
5 10400.000	11.20	37.10	53.12	51.30	46.48	68.20	-21.72 peak
6 p15600.000	13.86	41.10	52.11	49.71	52.56	74.00	-21.44 peak

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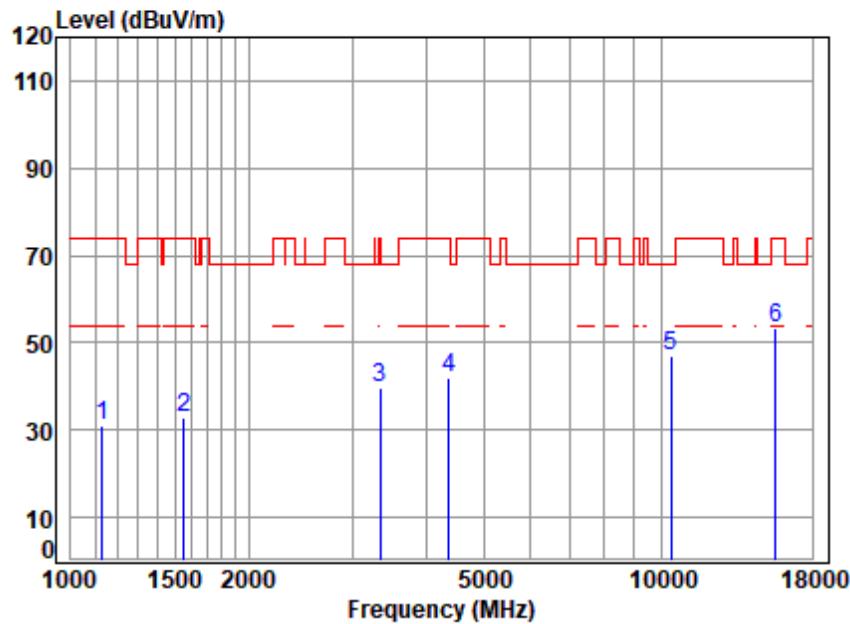
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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5200 TX RSE  
Note : 5G WIFI 11AC20

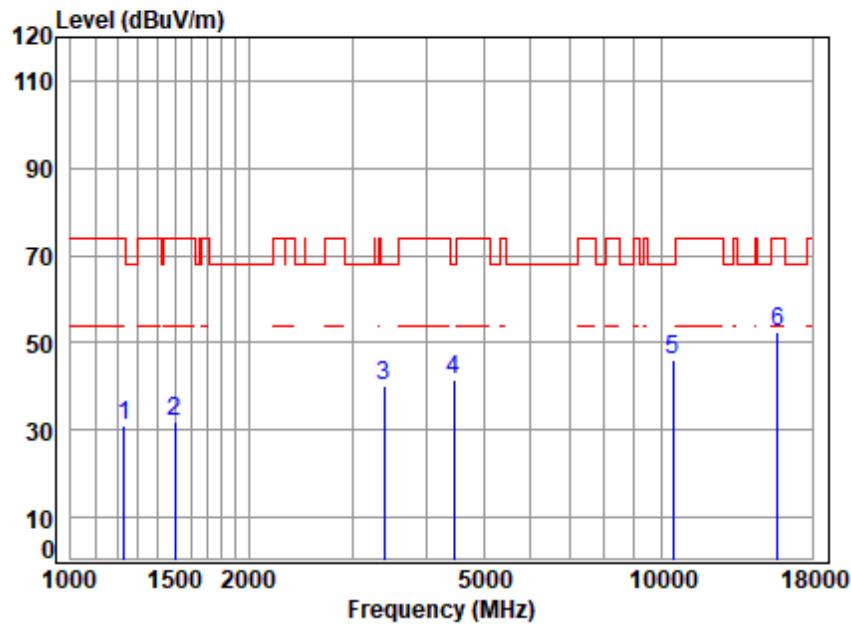
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1132.340	3.59	23.83	54.65	58.16	30.93	74.00	-43.07 peak
2	1551.677	4.12	26.99	54.79	56.58	32.90	74.00	-41.10 peak
3	3347.371	6.39	32.05	54.73	55.87	39.58	74.00	-34.42 peak
4	4367.058	7.10	34.54	54.26	54.71	42.09	74.00	-31.91 peak
5	10400.000	11.20	37.10	53.12	51.67	46.85	68.20	-21.35 peak
6	p15600.000	13.86	41.10	52.11	50.50	53.35	74.00	-20.65 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5240 TX RSE  
Note : 5G WIFI 11AC20

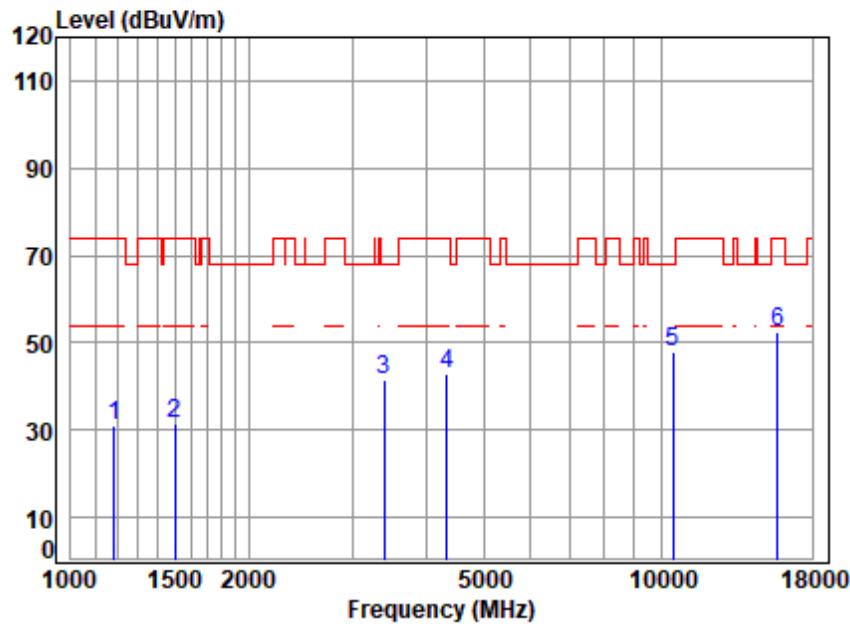
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1231.345	3.72	24.84	54.69	57.04	30.91	74.00	-43.09 peak
2	1503.119	4.04	26.81	54.78	55.69	31.76	74.00	-42.24 peak
3	3396.098	6.43	32.38	54.70	56.07	40.18	68.20	-28.02 peak
4	4456.315	7.20	34.12	54.25	54.52	41.59	68.20	-26.61 peak
5	10480.000	11.33	37.26	53.10	50.52	46.01	68.20	-22.19 peak
6	p15720.000	14.01	41.22	52.02	49.12	52.33	74.00	-21.67 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5240 TX RSE  
Note : 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1182.513	3.66	24.23	54.67	57.72	30.94	74.00	-43.06 peak
2 1503.119	4.04	26.81	54.78	55.37	31.44	74.00	-42.56 peak
3 3396.098	6.43	32.38	54.70	57.31	41.42	68.20	-26.78 peak
4 4329.354	7.05	34.23	54.26	55.74	42.76	74.00	-31.24 peak
5 p10480.000	11.33	37.26	53.10	52.40	47.89	68.20	-20.31 peak
6 15720.000	14.01	41.22	52.02	49.47	52.68	74.00	-21.32 peak

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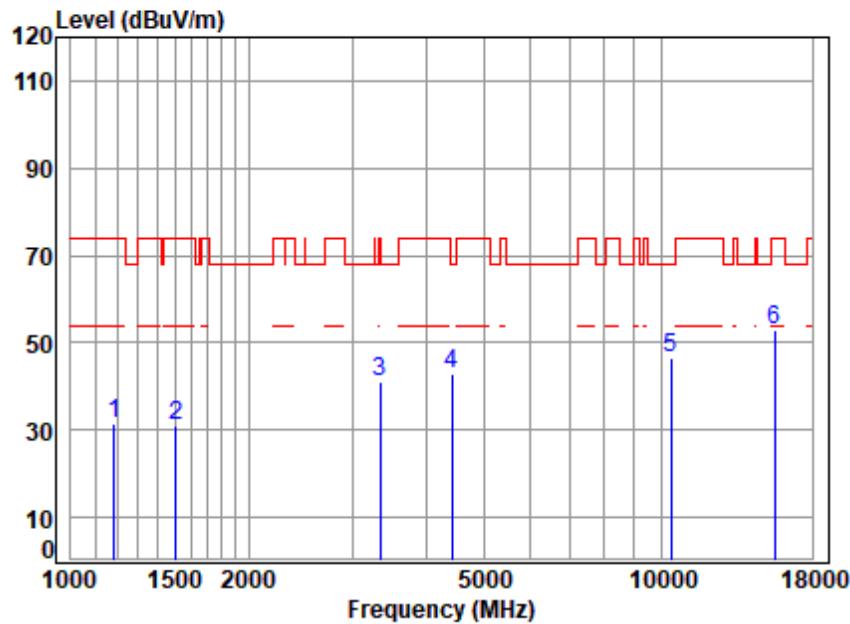
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5190 TX RSE  
Note : 5G WIFI 11AC40

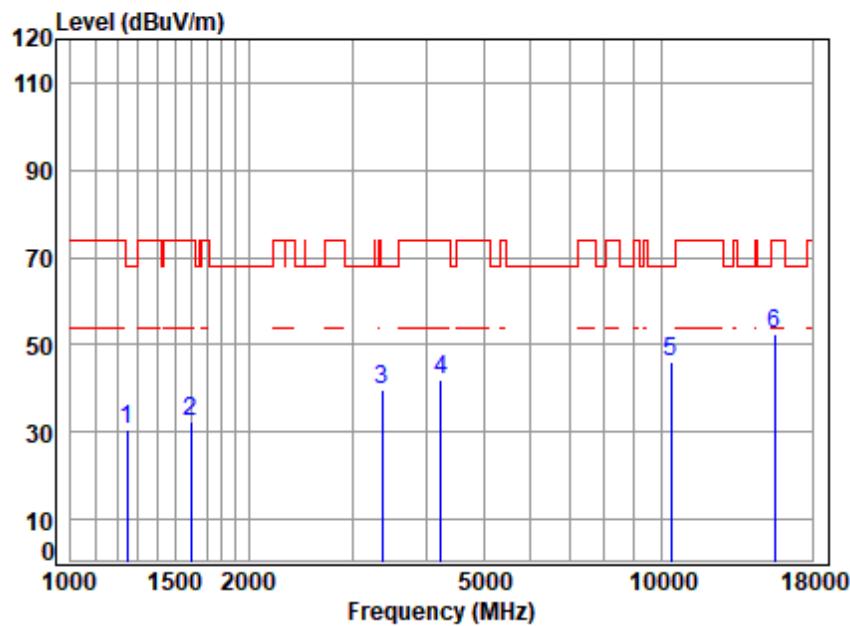
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1185.936	3.66	24.26	54.67	58.02	31.27	74.00	-42.73 peak
2	1507.470	4.05	26.83	54.78	55.13	31.23	74.00	-42.77 peak
3	3347.371	6.39	32.05	54.73	57.37	41.08	74.00	-32.92 peak
4	4417.841	7.16	34.59	54.26	55.30	42.79	68.20	-25.41 peak
5	10380.000	11.17	37.10	53.12	51.25	46.40	68.20	-21.80 peak
6	p15570.000	13.83	41.10	52.14	50.30	53.09	74.00	-20.91 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5190 TX RSE  
Note : 5G WIFI 11AC40

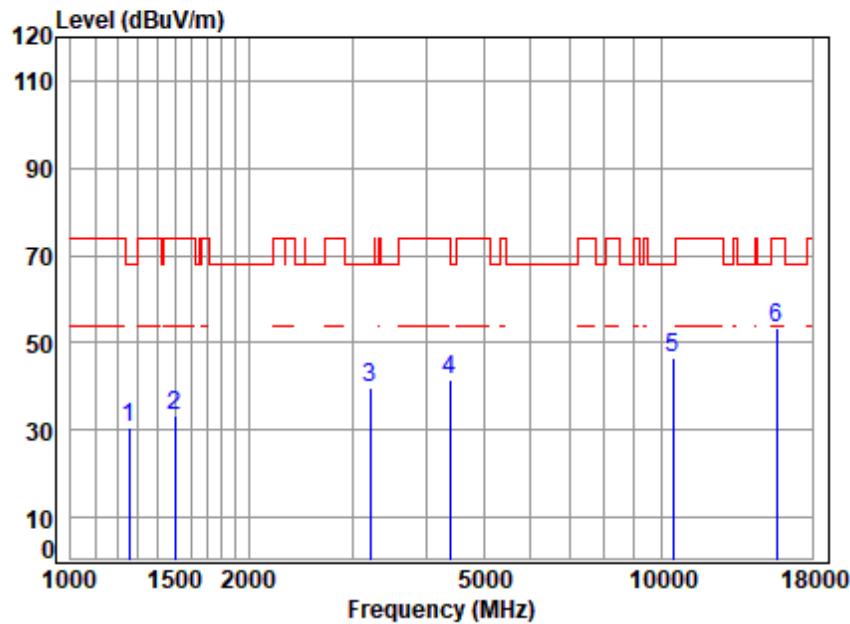
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1245.663	3.74	25.04	54.70	56.34	30.42	68.20	-37.78 peak
2	1597.181	4.18	26.81	54.80	56.09	32.28	74.00	-41.72 peak
3	3366.778	6.41	32.20	54.72	55.95	39.84	68.20	-28.36 peak
4	4230.396	6.94	33.80	54.27	55.64	42.11	74.00	-31.89 peak
5	10380.000	11.17	37.10	53.12	50.96	46.11	68.20	-22.09 peak
6	p15570.000	13.83	41.10	52.14	49.48	52.27	74.00	-21.73 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5230 TX RSE  
Note : 5G WIFI 11AC40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1256.512	3.76	25.06	54.70	56.44	30.56	68.20	-37.64 peak
2	1503.119	4.04	26.81	54.78	57.06	33.13	74.00	-40.87 peak
3	3214.623	6.27	32.67	54.83	55.69	39.80	68.20	-28.40 peak
4	4392.376	7.13	34.74	54.26	53.78	41.39	74.00	-32.61 peak
5	10460.000	11.30	37.22	53.11	51.13	46.54	68.20	-21.66 peak
6	p15690.000	13.97	41.19	52.04	50.42	53.54	74.00	-20.46 peak

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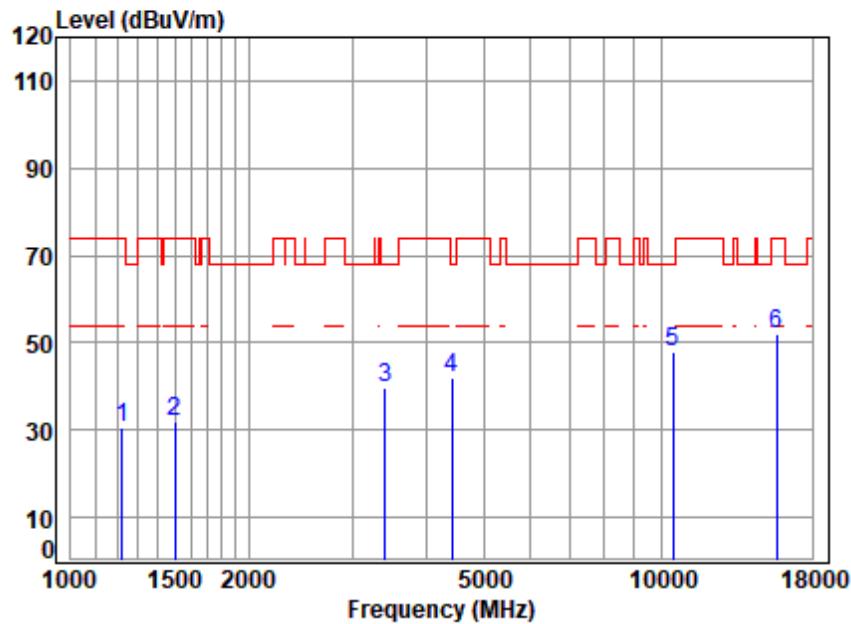
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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5230 TX RSE  
Note : 5G WIFI 11AC40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1224.247	3.71	24.74	54.69	56.77	30.53	74.00	-43.47 peak
2	1503.119	4.04	26.81	54.78	55.75	31.82	74.00	-42.18 peak
3	3405.929	6.44	32.33	54.69	55.57	39.65	68.20	-28.55 peak
4	4417.841	7.16	34.59	54.26	54.69	42.18	68.20	-26.02 peak
5	p10460.000	11.30	37.22	53.11	52.34	47.75	68.20	-20.45 peak
6	15690.000	13.97	41.19	52.04	48.93	52.05	74.00	-21.95 peak

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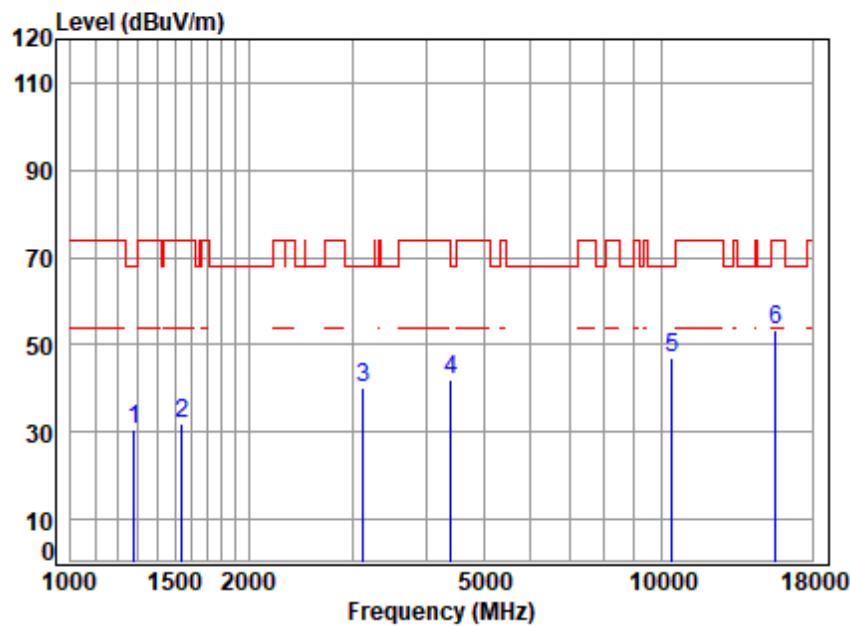
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5210 TX RSE  
Note : 5G WIFI 11AC80

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1282.193	3.79	24.91	54.71	56.78	30.77	68.20	-37.43 peak
2	1542.733	4.10	26.97	54.79	55.54	31.82	74.00	-42.18 peak
3	3132.079	6.20	32.18	54.90	56.55	40.03	68.20	-28.17 peak
4	4405.090	7.14	34.74	54.26	54.31	41.93	68.20	-26.27 peak
5	10420.000	11.23	37.14	53.11	51.56	46.82	68.20	-21.38 peak
6	p15630.000	13.90	41.13	52.09	50.33	53.27	74.00	-20.73 peak

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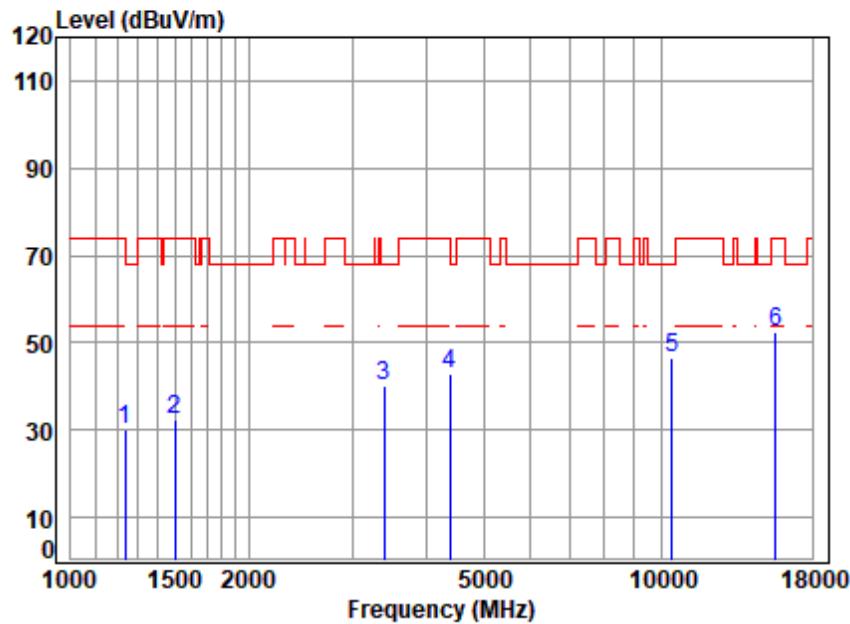
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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5210 TX RSE  
Note : 5G WIFI 11AC80

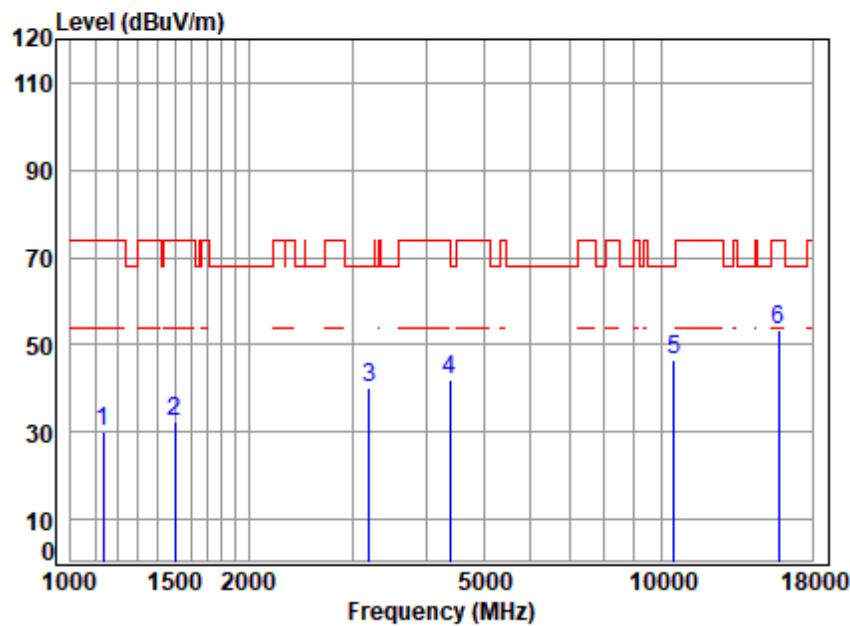
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1234.909	3.73	24.89	54.69	56.26	30.19	74.00	-43.81 peak
2	1503.119	4.04	26.81	54.78	56.15	32.22	74.00	-41.78 peak
3	3396.098	6.43	32.38	54.70	56.14	40.25	68.20	-27.95 peak
4	4379.699	7.11	34.64	54.26	55.35	42.84	74.00	-31.16 peak
5	10420.000	11.23	37.14	53.11	51.39	46.65	68.20	-21.55 peak
6	p15630.000	13.90	41.13	52.09	49.63	52.57	74.00	-21.43 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5260 TX RSE  
Note : 5G WIFI 11A

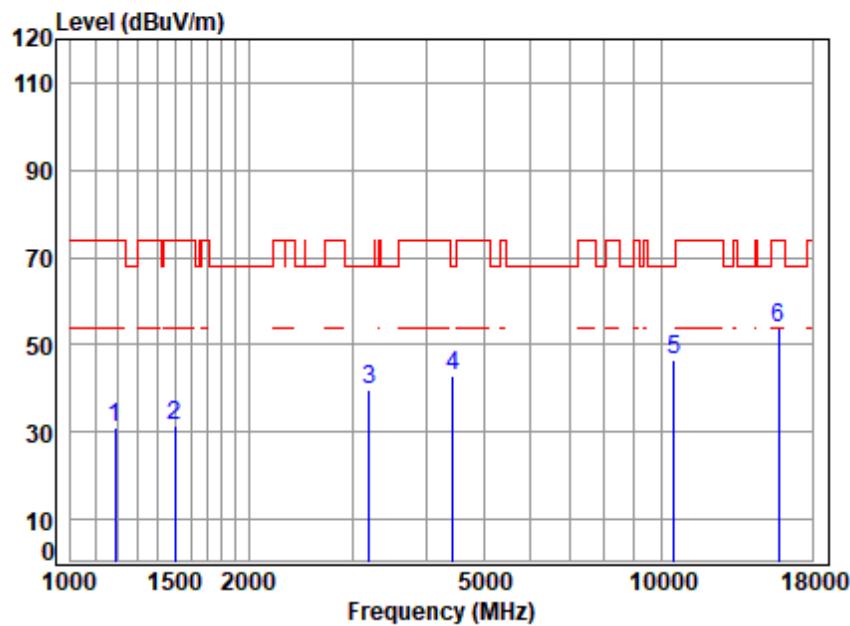
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1135.617	3.59	23.84	54.66	57.55	30.32	74.00	-43.68 peak
2	1503.119	4.04	26.81	54.78	56.44	32.51	74.00	-41.49 peak
3	3196.094	6.25	32.87	54.85	56.07	40.34	68.20	-27.86 peak
4	4392.376	7.13	34.74	54.26	54.18	41.79	74.00	-32.21 peak
5	10520.000	11.37	37.30	53.09	51.10	46.68	68.20	-21.52 peak
6	p15780.000	14.08	41.28	51.97	49.78	53.17	74.00	-20.83 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5260 TX RSE  
Note : 5G WIFI 11A

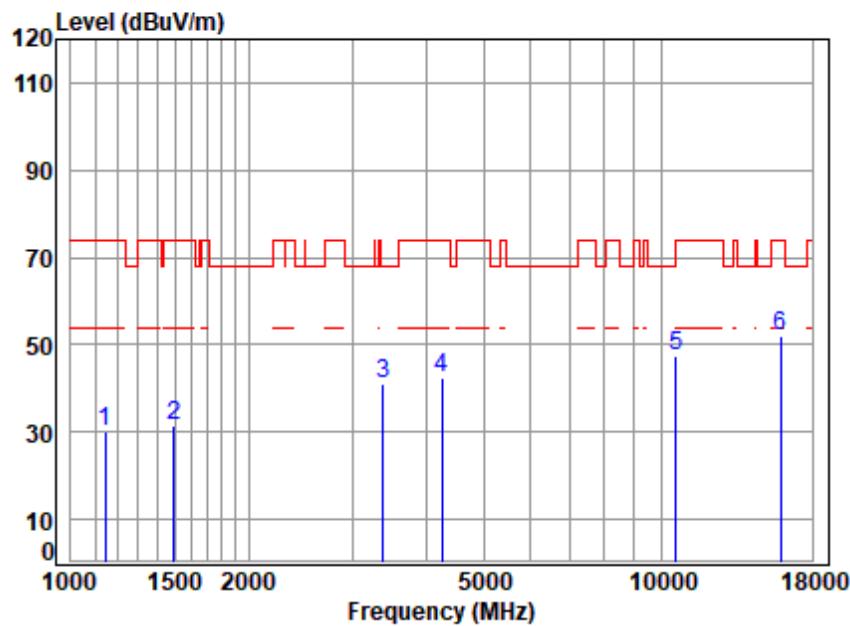
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1189.368	3.67	24.29	54.68	57.80	31.08	74.00	-42.92 peak
2	1498.781	4.04	26.77	54.78	55.53	31.56	74.00	-42.44 peak
3	3205.345	6.26	32.81	54.84	55.61	39.84	68.20	-28.36 peak
4	4430.628	7.17	34.43	54.25	55.75	43.10	68.20	-25.10 peak
5	10520.000	11.37	37.30	53.09	50.81	46.39	68.20	-21.81 peak
6	p15780.000	14.08	41.28	51.97	50.61	54.00	74.00	-20.00 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5300 TX RSE  
Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1142.201	3.60	23.87	54.66	57.51	30.32	74.00	-43.68 peak
2	1494.455	4.03	26.64	54.77	55.64	31.54	74.00	-42.46 peak
3	3376.523	6.42	32.26	54.71	56.93	40.90	68.20	-27.30 peak
4	4254.921	6.96	33.82	54.27	55.86	42.37	74.00	-31.63 peak
5	p10600.000	11.43	37.30	53.08	51.92	47.57	68.20	-20.63 peak
6	15900.000	14.23	41.40	51.88	48.22	51.97	74.00	-22.03 peak

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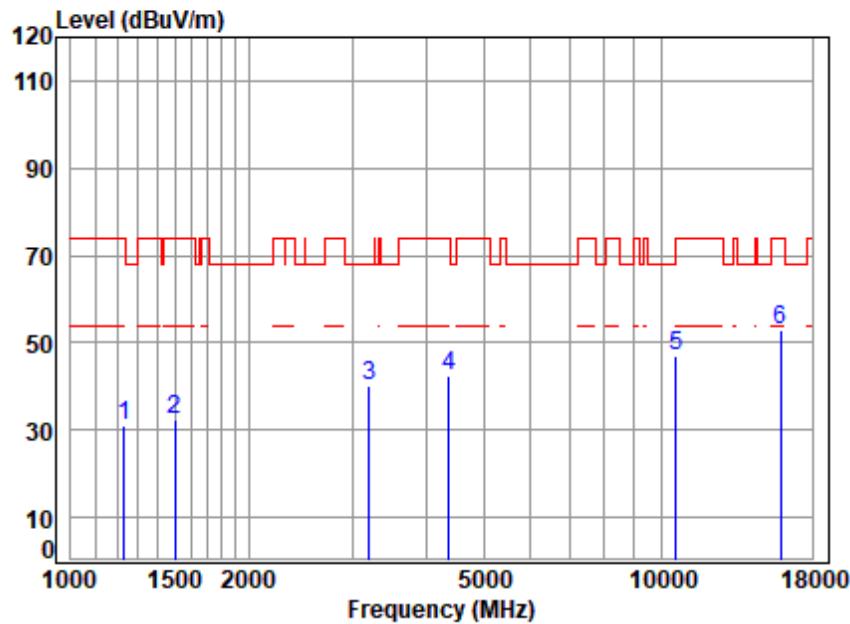
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SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch is a member of SGS Group LLC Laboratory.



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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5300 TX RSE  
Note : 5G WIFI 11A

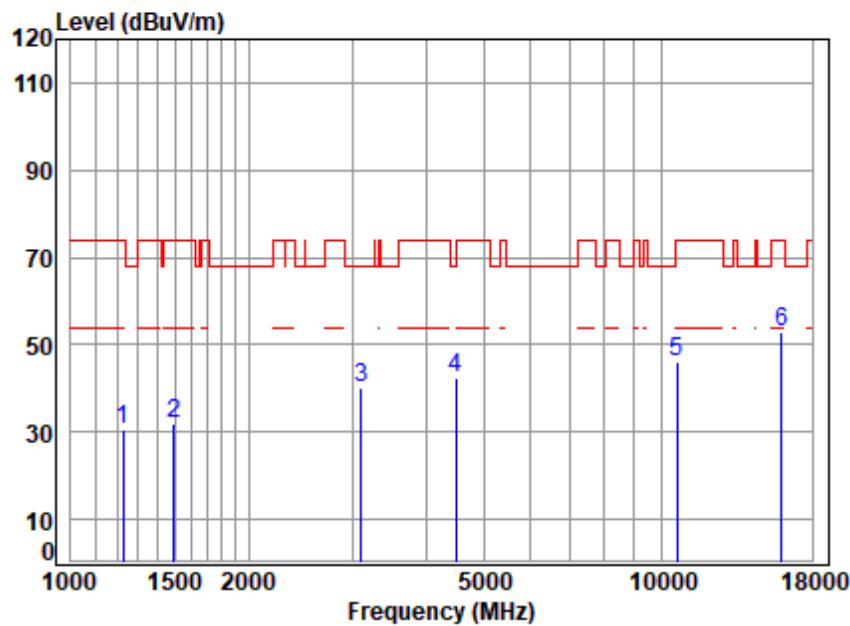
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1231.345	3.72	24.84	54.69	57.04	30.91	74.00	-43.09 peak
2	1498.781	4.04	26.77	54.78	56.47	32.50	74.00	-41.50 peak
3	3205.345	6.26	32.81	54.84	55.71	39.94	68.20	-28.26 peak
4	4367.058	7.10	34.54	54.26	54.84	42.22	74.00	-31.78 peak
5	10600.000	11.43	37.30	53.08	51.52	47.17	68.20	-21.03 peak
6	p15900.000	14.23	41.40	51.88	49.27	53.02	74.00	-20.98 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5320 TX RSE  
Note : 5G WIFI 11A

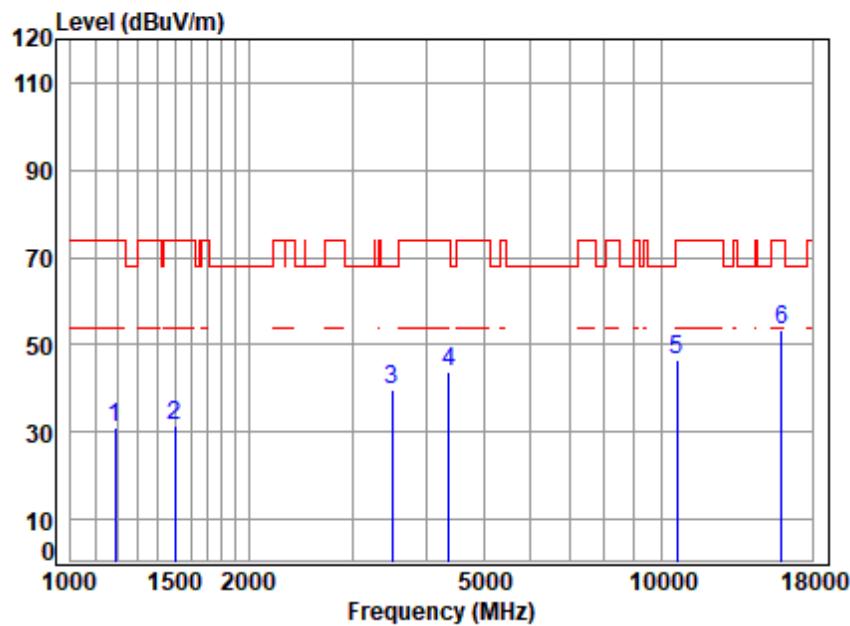
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1227.791	3.72	24.79	54.69	56.93	30.75	74.00	-43.25 peak
2	1494.455	4.03	26.64	54.77	55.83	31.73	74.00	-42.27 peak
3	3105.037	6.17	31.69	54.92	57.33	40.27	68.20	-27.93 peak
4	4482.150	7.23	33.81	54.25	55.58	42.37	68.20	-25.83 peak
5	10640.000	11.45	37.22	53.07	50.66	46.26	74.00	-27.74 peak
6	p15960.000	14.30	41.52	51.83	49.08	53.07	74.00	-20.93 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5320 TX RSE  
Note : 5G WIFI 11A

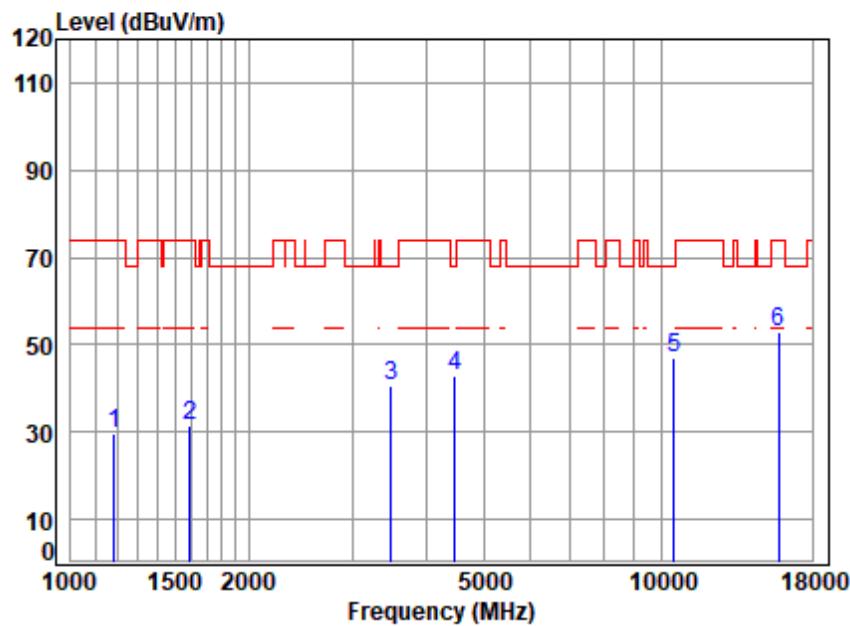
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1189.368	3.67	24.29	54.68	57.59	30.87	74.00	-43.13 peak
2	1503.119	4.04	26.81	54.78	55.51	31.58	74.00	-42.42 peak
3	3495.691	6.52	31.62	54.63	55.98	39.49	68.20	-28.71 peak
4	4367.058	7.10	34.54	54.26	56.37	43.75	74.00	-30.25 peak
5	10640.000	11.45	37.22	53.07	50.98	46.58	74.00	-27.42 peak
6	p15960.000	14.30	41.52	51.83	49.38	53.37	74.00	-20.63 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5260 TX RSE  
Note : 5G WIFI 11AC20

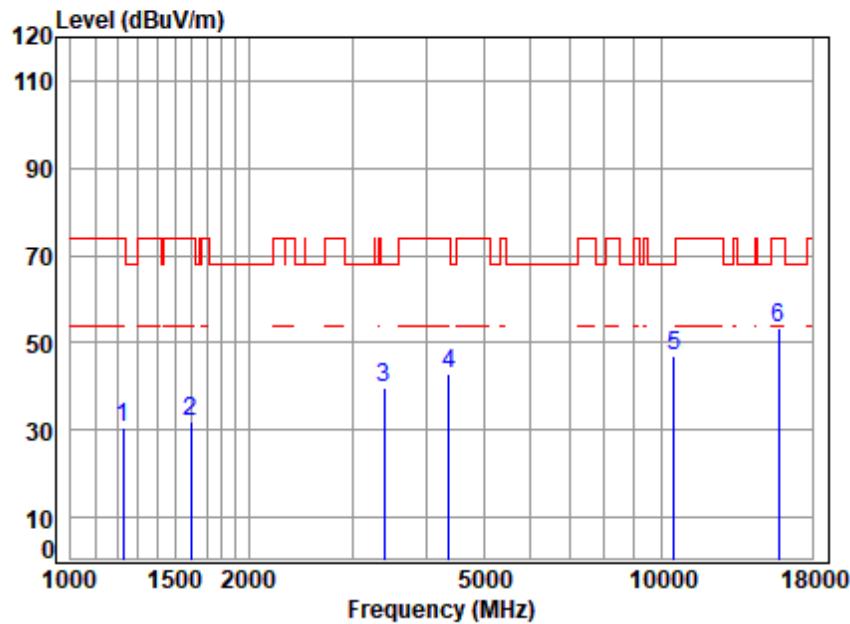
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1185.936	3.66	24.26	54.67	56.47	29.72	74.00	-44.28 peak
2	1592.571	4.18	26.83	54.80	55.44	31.65	74.00	-42.35 peak
3	3485.601	6.51	31.66	54.63	57.27	40.81	68.20	-27.39 peak
4	4469.214	7.22	33.97	54.25	55.95	42.89	68.20	-25.31 peak
5	10520.000	11.37	37.30	53.09	51.36	46.94	68.20	-21.26 peak
6	p15780.000	14.08	41.28	51.97	49.61	53.00	74.00	-21.00 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5260 TX RSE  
Note : 5G WIFI 11AC20

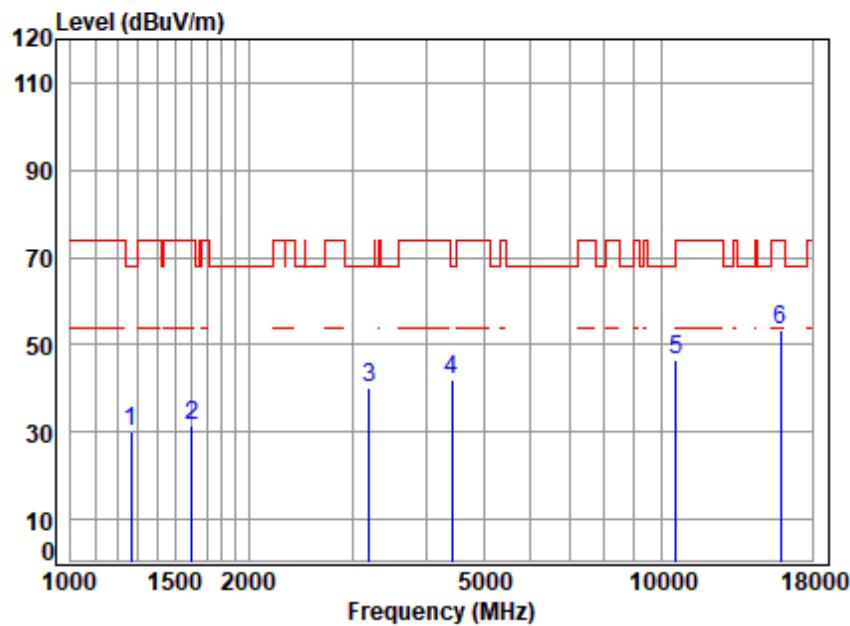
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1227.791	3.72	24.79	54.69	56.78	30.60	74.00	-43.40 peak
2	1597.181	4.18	26.81	54.80	55.60	31.79	74.00	-42.21 peak
3	3396.098	6.43	32.38	54.70	55.53	39.64	68.20	-28.56 peak
4	4367.058	7.10	34.54	54.26	55.63	43.01	74.00	-30.99 peak
5	10520.000	11.37	37.30	53.09	51.33	46.91	68.20	-21.29 peak
6	p15780.000	14.08	41.28	51.97	50.12	53.51	74.00	-20.49 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5300 TX RSE  
Note : 5G WIFI 11AC20

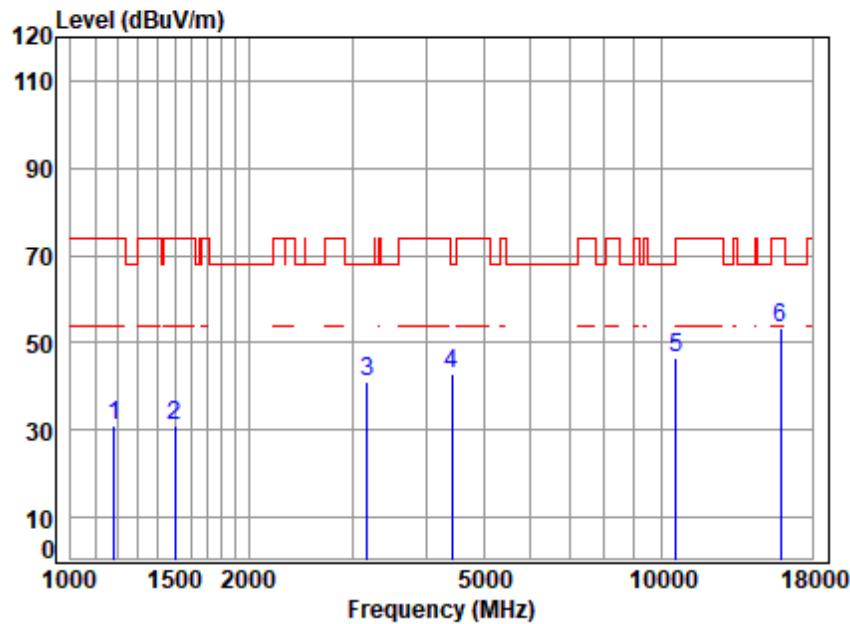
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1263.796	3.77	25.02	54.70	55.99	30.08	68.20	-38.12 peak
2	1606.441	4.19	26.74	54.81	55.31	31.43	74.00	-42.57 peak
3	3196.094	6.25	32.87	54.85	56.10	40.37	68.20	-27.83 peak
4	4417.841	7.16	34.59	54.26	54.49	41.98	68.20	-26.22 peak
5	10600.000	11.43	37.30	53.08	50.97	46.62	68.20	-21.58 peak
6	p15900.000	14.23	41.40	51.88	49.52	53.27	74.00	-20.73 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5300 TX RSE  
Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1182.513	3.66	24.23	54.67	57.87	31.09	74.00	-42.91 peak
2	1503.119	4.04	26.81	54.78	54.83	30.90	74.00	-43.10 peak
3	3177.672	6.24	32.72	54.86	56.74	40.84	68.20	-27.36 peak
4	4417.841	7.16	34.59	54.26	55.58	43.07	68.20	-25.13 peak
5	10600.000	11.43	37.30	53.08	51.02	46.67	68.20	-21.53 peak
6	p15900.000	14.23	41.40	51.88	49.80	53.55	74.00	-20.45 peak

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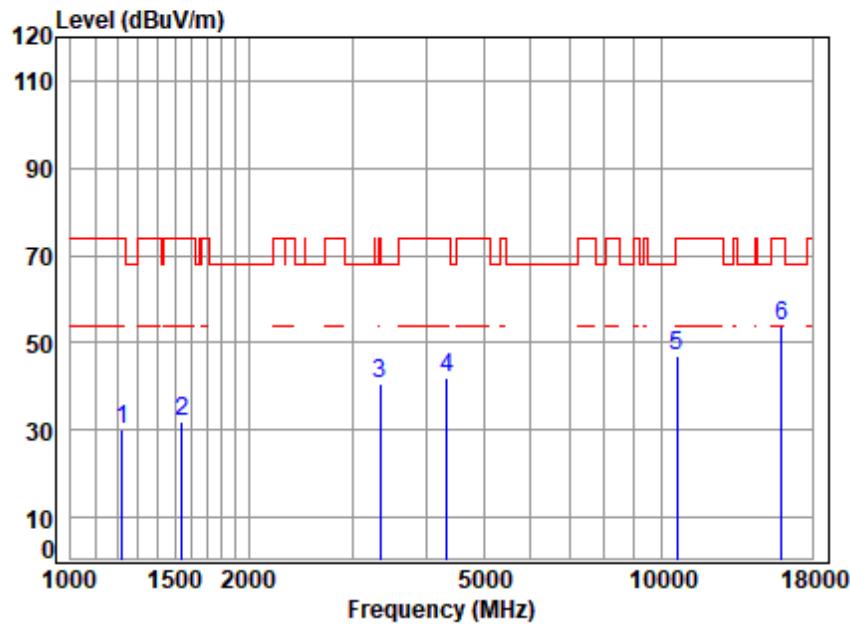
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Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5320 TX RSE  
Note : 5G WIFI 11AC20

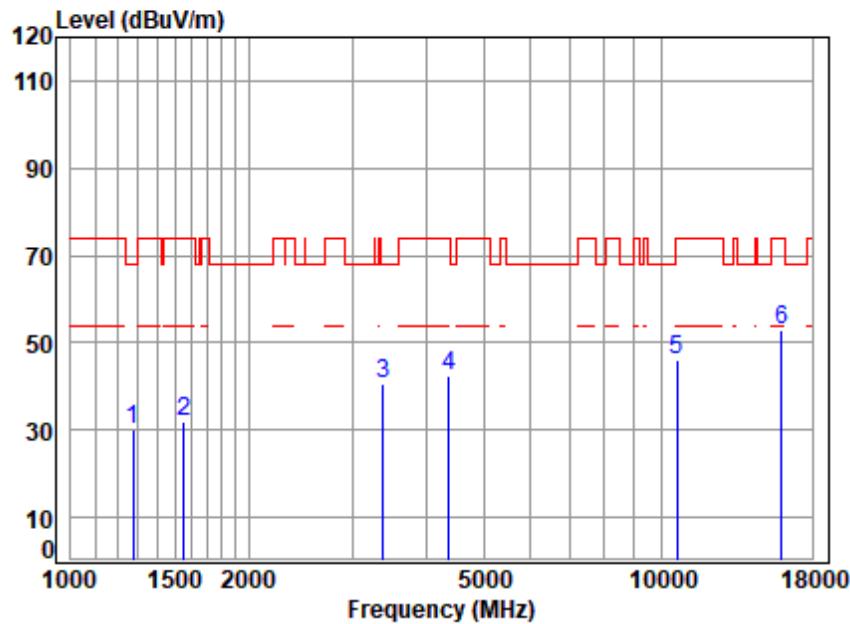
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1224.247	3.71	24.74	54.69	56.45	30.21	74.00	-43.79 peak
2	1542.733	4.10	26.97	54.79	55.58	31.86	74.00	-42.14 peak
3	3347.371	6.39	32.05	54.73	56.88	40.59	74.00	-33.41 peak
4	4341.886	7.07	34.34	54.26	54.96	42.11	74.00	-31.89 peak
5	10640.000	11.45	37.22	53.07	51.32	46.92	74.00	-27.08 peak
6	p15960.000	14.30	41.52	51.83	49.69	53.68	74.00	-20.32 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5320 TX RSE  
Note : 5G WIFI 11AC20

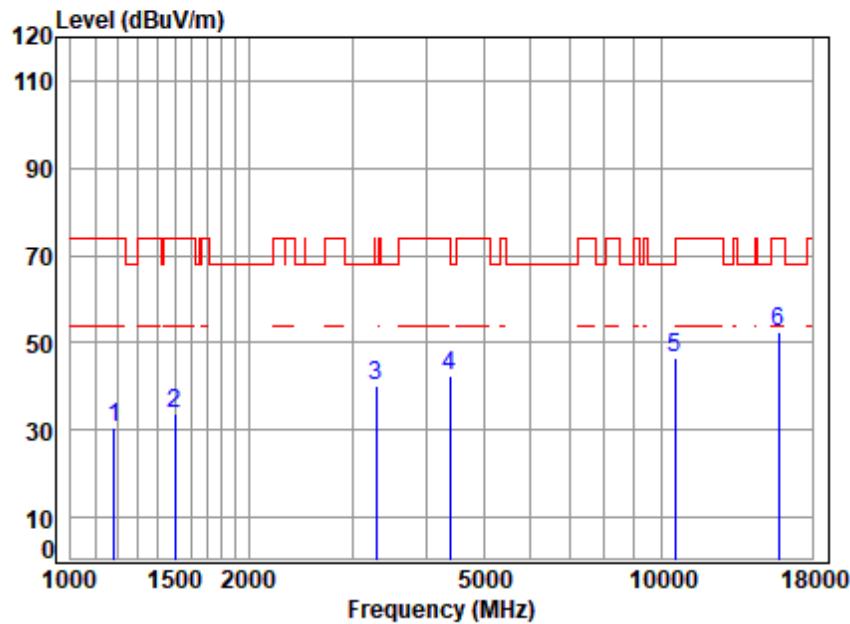
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1274.802	3.78	24.95	54.71	56.07	30.09	68.20	-38.11 peak
2	1556.169	4.12	26.98	54.79	55.80	32.11	74.00	-41.89 peak
3	3386.297	6.42	32.32	54.71	56.68	40.71	68.20	-27.49 peak
4	4367.058	7.10	34.54	54.26	54.94	42.32	74.00	-31.68 peak
5	10640.000	11.45	37.22	53.07	50.65	46.25	74.00	-27.75 peak
6	p15960.000	14.30	41.52	51.83	49.14	53.13	74.00	-20.87 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5270 TX RSE  
Note : 5G WIFI 11AC40

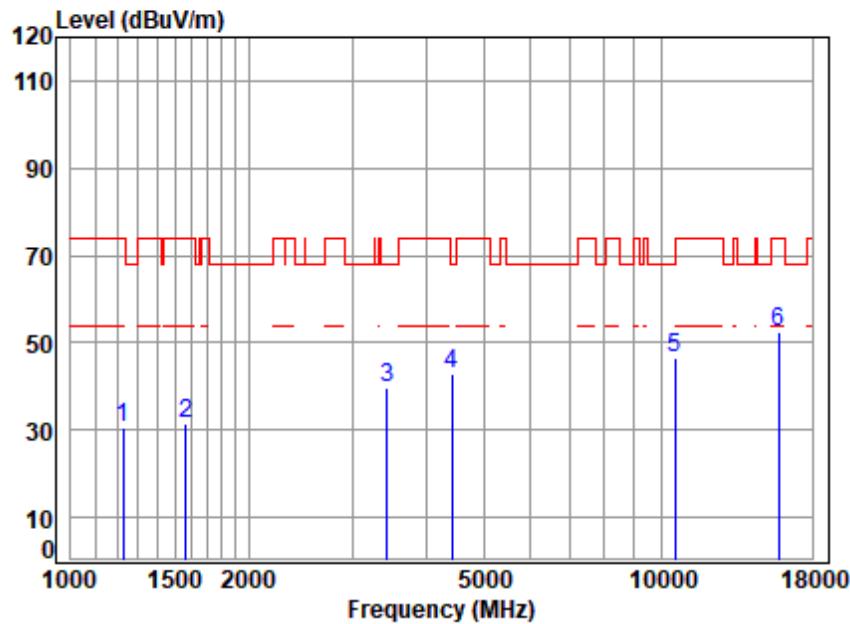
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1185.936	3.66	24.26	54.67	57.42	30.67	74.00	-43.33 peak
2	1503.119	4.04	26.81	54.78	57.53	33.60	74.00	-40.40 peak
3	3289.821	6.34	31.38	54.78	57.18	40.12	68.20	-28.08 peak
4	4379.699	7.11	34.64	54.26	54.81	42.30	74.00	-31.70 peak
5	10540.000	11.39	37.30	53.09	50.80	46.40	68.20	-21.80 peak
6	p15810.000	14.12	41.31	51.95	48.94	52.42	74.00	-21.58 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5270 TX RSE  
Note : 5G WIFI 11AC40

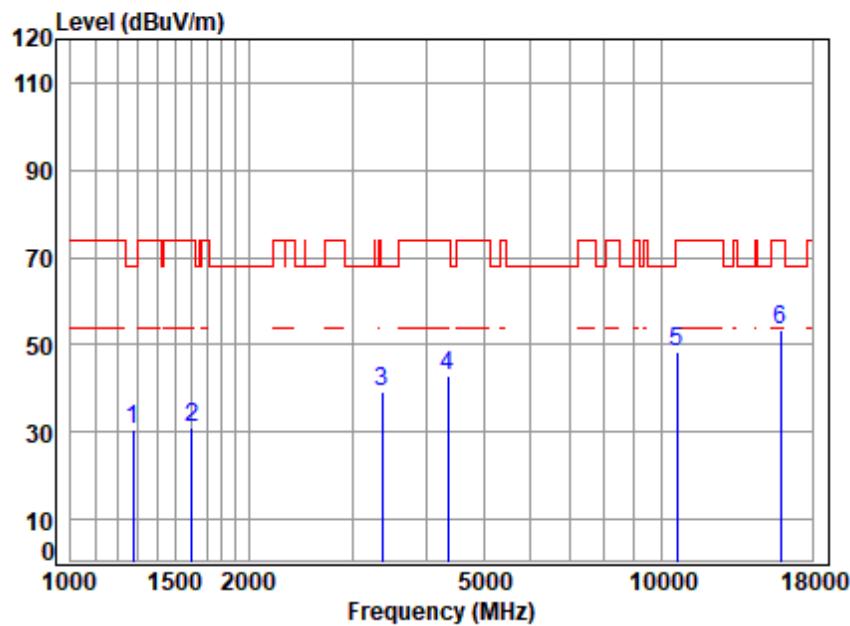
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
							dB	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1227.791	3.72	24.79	54.69	56.55	30.37	74.00	-43.63	peak
2 1569.721	4.14	26.92	54.80	55.34	31.60	74.00	-42.40	peak
3 3435.590	6.47	31.97	54.67	55.99	39.76	68.20	-28.44	peak
4 4417.841	7.16	34.59	54.26	55.29	42.78	68.20	-25.42	peak
5 10540.000	11.39	37.30	53.09	50.91	46.51	68.20	-21.69	peak
6 p15810.000	14.12	41.31	51.95	49.22	52.70	74.00	-21.30	peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5310 TX RSE  
Note : 5G WIFI 11AC40

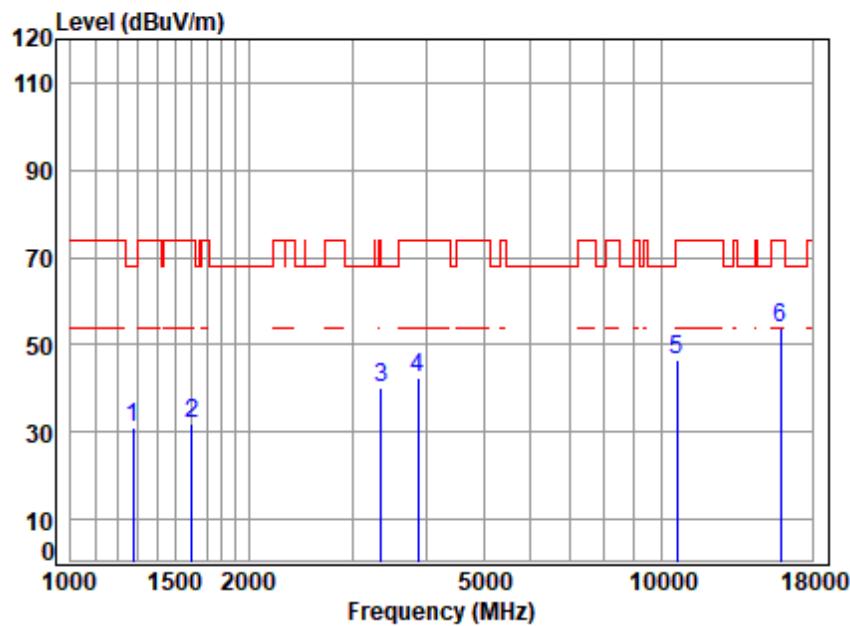
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1274.802	3.78	24.95	54.71	56.35	30.37	68.20	-37.83 peak
2	1601.804	4.19	26.78	54.80	54.95	31.12	74.00	-42.88 peak
3	3366.778	6.41	32.20	54.72	55.36	39.25	68.20	-28.95 peak
4	4354.454	7.08	34.44	54.26	55.43	42.69	74.00	-31.31 peak
5	10620.000	11.44	37.26	53.07	52.67	48.30	74.00	-25.70 peak
6	p15930.000	14.27	41.46	51.85	49.35	53.23	74.00	-20.77 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5310 TX RSE  
Note : 5G WIFI 11AC40

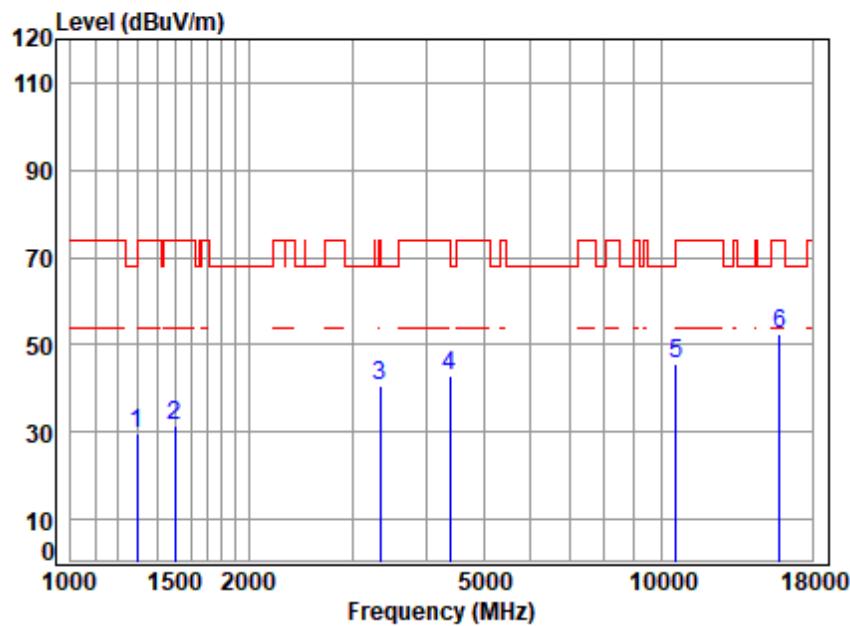
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1274.802	3.78	24.95	54.71	56.94	30.96	68.20	-37.24 peak
2	1601.804	4.19	26.78	54.80	55.76	31.93	74.00	-42.07 peak
3	3357.061	6.40	32.14	54.73	56.15	39.96	74.00	-34.04 peak
4	3879.027	6.62	33.51	54.37	56.64	42.40	74.00	-31.60 peak
5	10620.000	11.44	37.26	53.07	50.71	46.34	74.00	-27.66 peak
6	p15930.000	14.27	41.46	51.85	49.83	53.71	74.00	-20.29 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5290 TX RSE  
Note : 5G WIFI 11AC80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1297.103	3.81	24.82	54.71	55.74	29.66	68.20	-38.54 peak
2 1503.119	4.04	26.81	54.78	55.27	31.34	74.00	-42.66 peak
3 3347.371	6.39	32.05	54.73	56.72	40.43	74.00	-33.57 peak
4 4379.699	7.11	34.64	54.26	55.43	42.92	74.00	-31.08 peak
5 10580.000	11.41	37.30	53.08	50.08	45.71	68.20	-22.49 peak
6 p15870.000	14.19	41.37	51.90	48.72	52.38	74.00	-21.62 peak

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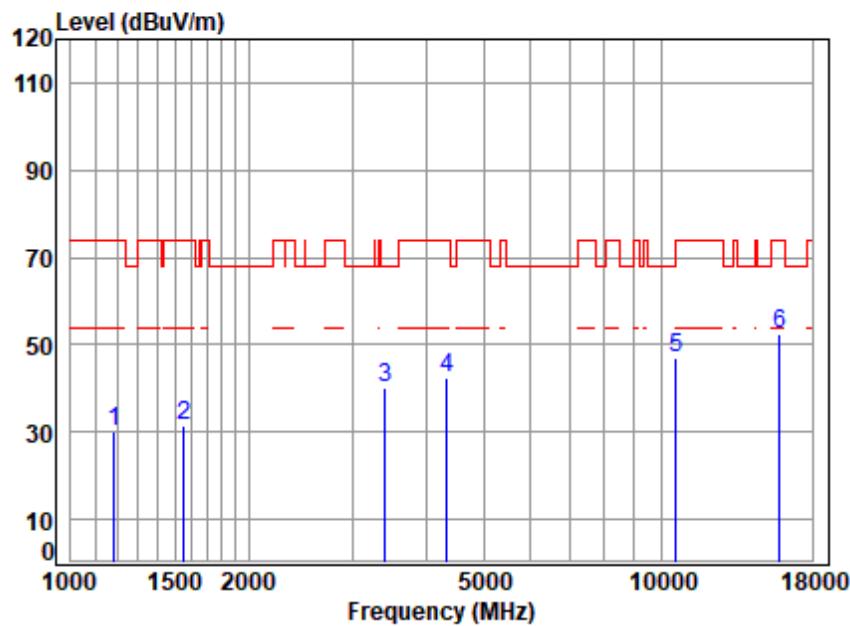
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Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5290 TX RSE  
Note : 5G WIFI 11AC80

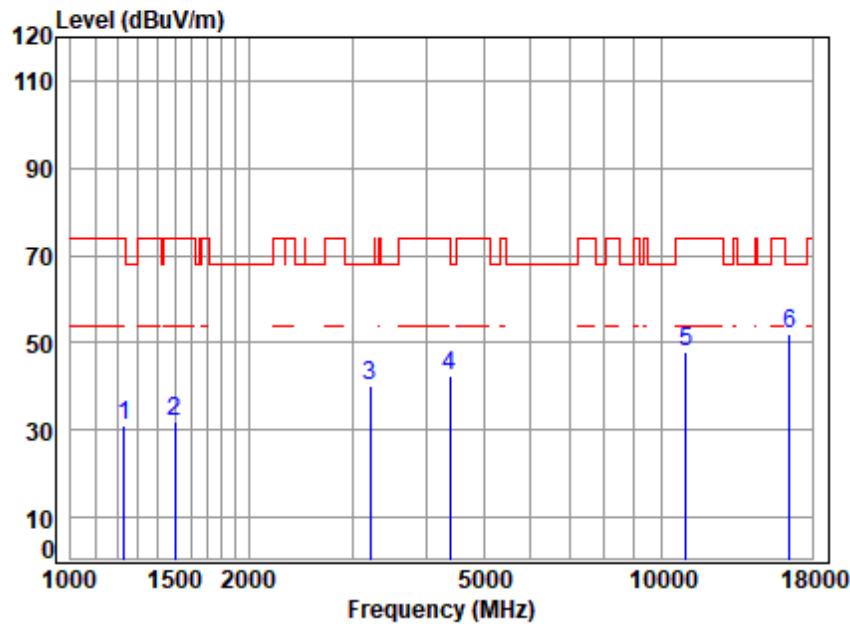
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
							dB	Remark
1 1182.513	3.66	24.23	54.67	57.01	30.23	74.00	-43.77	peak
2 1551.677	4.12	26.99	54.79	55.10	31.42	74.00	-42.58	peak
3 3405.929	6.44	32.33	54.69	55.96	40.04	68.20	-28.16	peak
4 4341.886	7.07	34.34	54.26	55.16	42.31	74.00	-31.69	peak
5 p10580.000	11.41	37.30	53.08	51.27	46.90	68.20	-21.30	peak
6 15870.000	14.19	41.37	51.90	48.91	52.57	74.00	-21.43	peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5500 TX RSE  
Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1231.345	3.72	24.84	54.69	57.05	30.92	74.00	-43.08 peak
2	1503.119	4.04	26.81	54.78	55.90	31.97	74.00	-42.03 peak
3	3214.623	6.27	32.67	54.83	55.94	40.05	68.20	-28.15 peak
4	4379.699	7.11	34.64	54.26	55.05	42.54	74.00	-31.46 peak
5	11000.000	11.68	37.50	53.00	51.70	47.88	74.00	-26.12 peak
6	p16500.000	13.99	42.10	52.36	48.49	52.22	68.20	-15.98 peak

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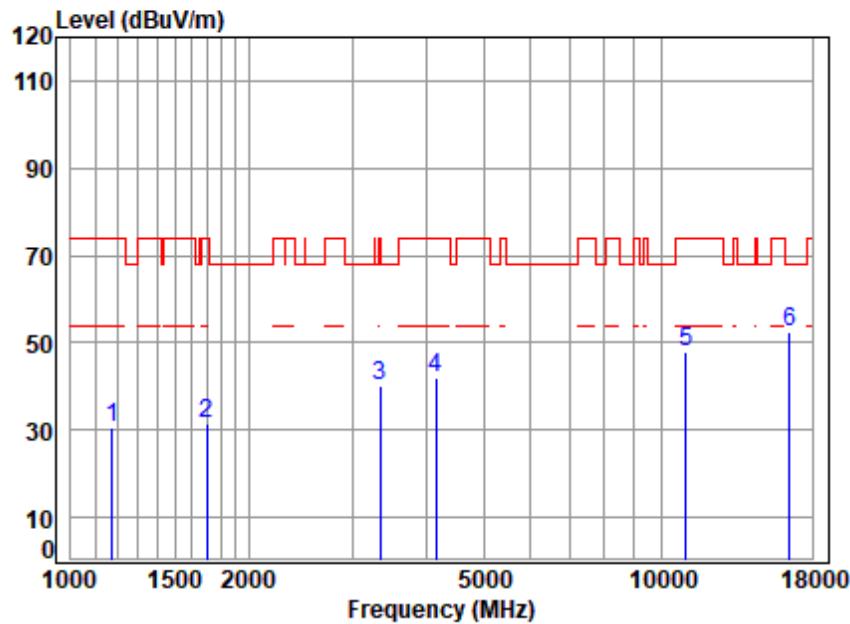
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Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5500 TX RSE  
Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1175.697	3.65	24.16	54.67	57.21	30.35	74.00	-43.65 peak
2	1702.042	4.33	26.22	54.83	55.66	31.38	74.00	-42.62 peak
3	3347.371	6.39	32.05	54.73	56.53	40.24	74.00	-33.76 peak
4	4157.664	6.85	33.80	54.28	55.73	42.10	74.00	-31.90 peak
5	11000.000	11.68	37.50	53.00	51.52	47.70	74.00	-26.30 peak
6	p16500.000	13.99	42.10	52.36	48.55	52.28	68.20	-15.92 peak

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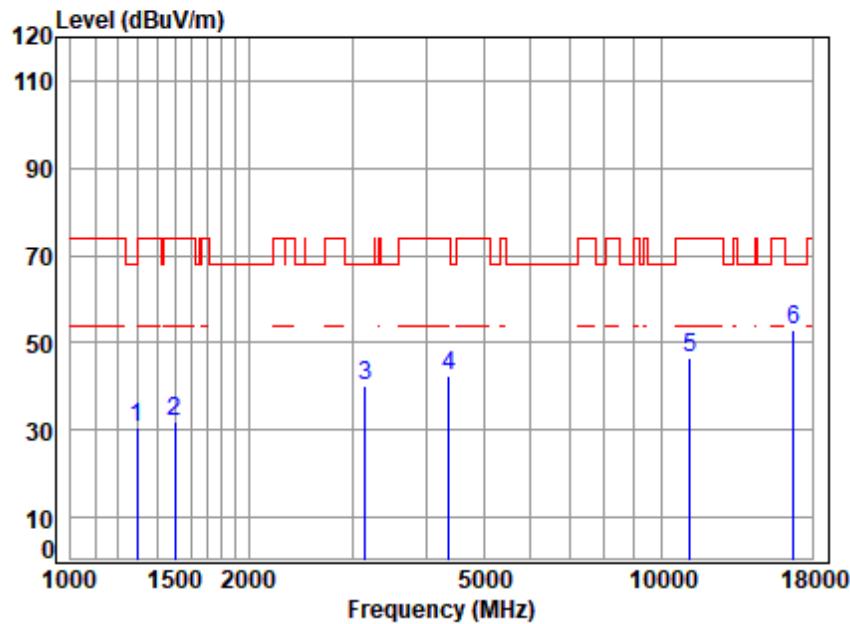
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5580 TX RSE  
Note : 5G WIFI 11A

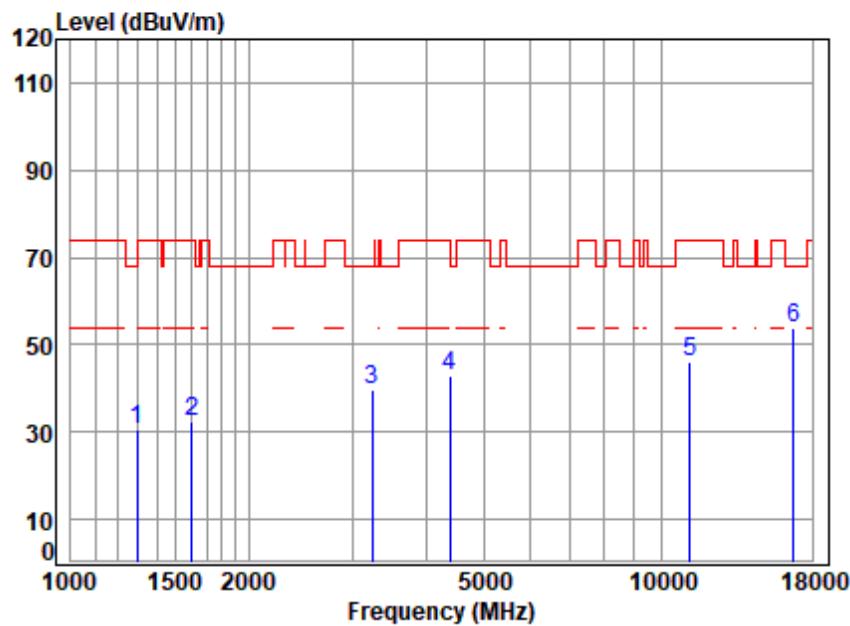
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1293.359	3.80	24.84	54.71	56.85	30.78	68.20	-37.42 peak
2	1503.119	4.04	26.81	54.78	55.74	31.81	74.00	-42.19 peak
3	3150.237	6.21	32.50	54.88	56.47	40.30	68.20	-27.90 peak
4	4367.058	7.10	34.54	54.26	55.22	42.60	74.00	-31.40 peak
5	11160.000	11.77	37.62	53.03	50.22	46.58	74.00	-27.42 peak
6	p16740.000	14.15	42.78	52.62	48.83	53.14	68.20	-15.06 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5580 TX RSE  
Note : 5G WIFI 11A

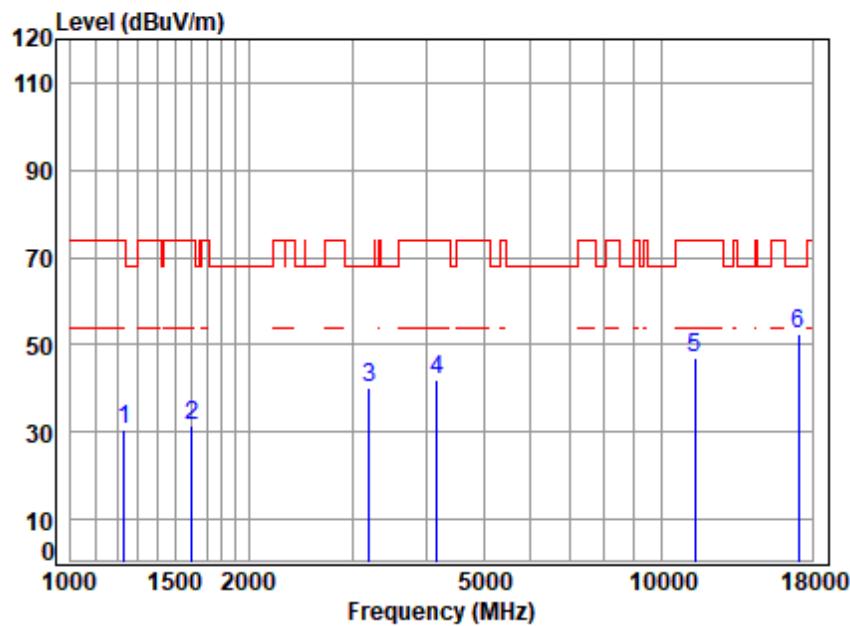
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1293.359	3.80	24.84	54.71	56.48	30.41	68.20	-37.79 peak
2	1606.441	4.19	26.74	54.81	56.18	32.30	74.00	-41.70 peak
3	3242.619	6.30	32.22	54.81	56.07	39.78	68.20	-28.42 peak
4	4379.699	7.11	34.64	54.26	55.54	43.03	74.00	-30.97 peak
5	11160.000	11.77	37.62	53.03	49.82	46.18	74.00	-27.82 peak
6	p16740.000	14.15	42.78	52.62	49.65	53.96	68.20	-14.24 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5700 TX RSE  
Note : 5G WIFI 11A

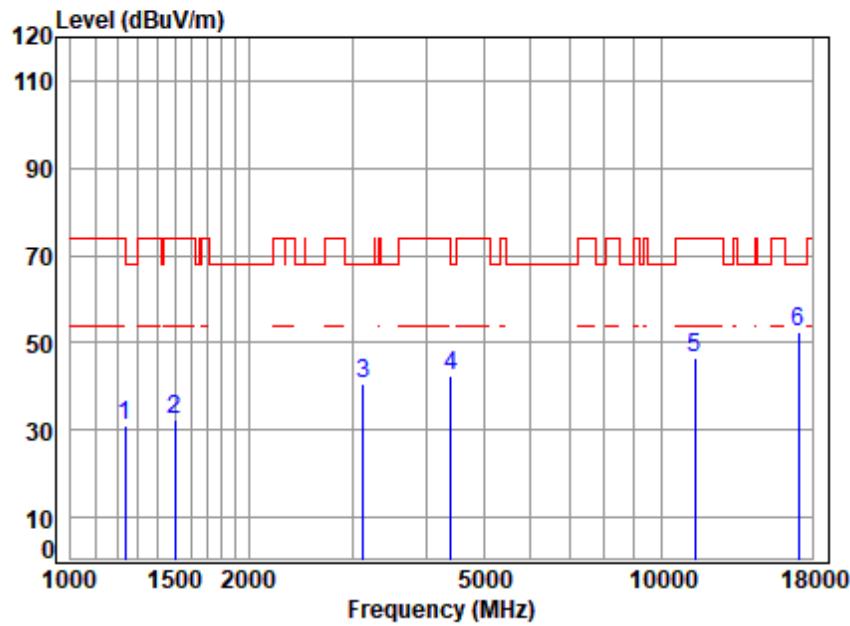
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1231.345	3.72	24.84	54.69	56.52	30.39	74.00	-43.61 peak
2	1606.441	4.19	26.74	54.81	55.44	31.56	74.00	-42.44 peak
3	3205.345	6.26	32.81	54.84	55.80	40.03	68.20	-28.17 peak
4	4169.698	6.86	33.80	54.28	55.49	41.87	74.00	-32.13 peak
5	11400.000	11.90	37.70	53.08	50.26	46.78	74.00	-27.22 peak
6	p17100.000	14.44	43.10	52.85	47.90	52.59	68.20	-15.61 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5700 TX RSE  
Note : 5G WIFI 11A

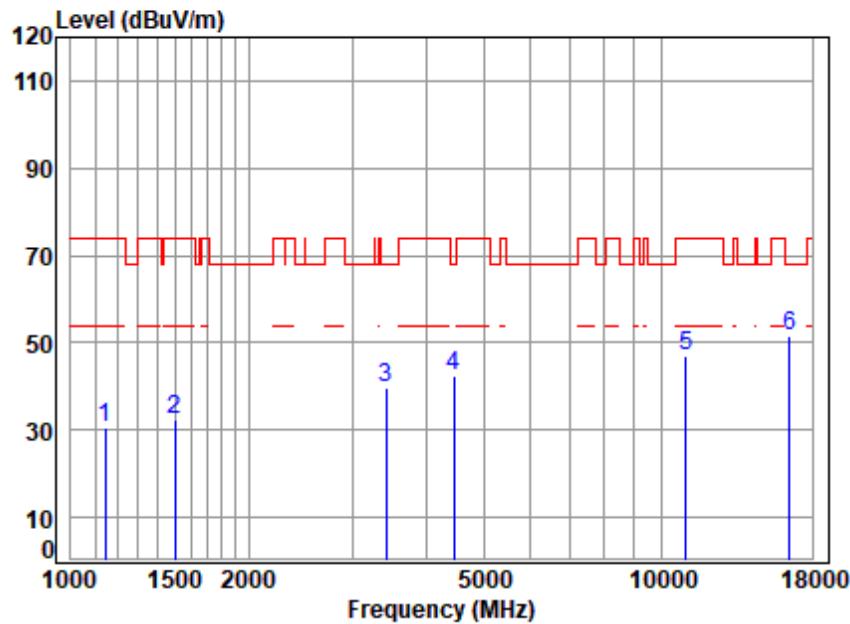
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1234.909	3.73	24.89	54.69	57.03	30.96	74.00	-43.04 peak
2	1498.781	4.04	26.77	54.78	56.20	32.23	74.00	-41.77 peak
3	3132.079	6.20	32.18	54.90	56.93	40.41	68.20	-27.79 peak
4	4405.090	7.14	34.74	54.26	54.60	42.22	68.20	-25.98 peak
5	11400.000	11.90	37.70	53.08	50.09	46.61	74.00	-27.39 peak
6	p17100.000	14.44	43.10	52.85	47.72	52.41	68.20	-15.79 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5500 TX RSE  
Note : 5G WIFI 11AC20

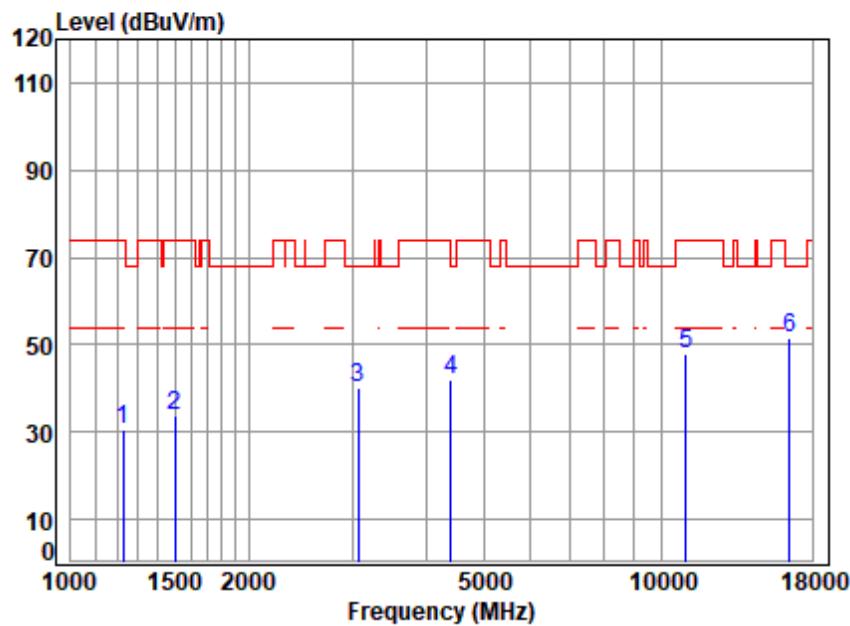
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1142.201	3.60	23.87	54.66	57.63	30.44	74.00	-43.56 peak
2	1503.119	4.04	26.81	54.78	56.31	32.38	74.00	-41.62 peak
3	3425.675	6.46	32.09	54.68	55.67	39.54	68.20	-28.66 peak
4	4456.315	7.20	34.12	54.25	55.31	42.38	68.20	-25.82 peak
5	11000.000	11.68	37.50	53.00	50.75	46.93	74.00	-27.07 peak
6	p16500.000	13.99	42.10	52.36	47.69	51.42	68.20	-16.78 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5500 TX RSE  
Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1227.791	3.72	24.79	54.69	56.95	30.77	74.00	-43.23 peak
2	1503.119	4.04	26.81	54.78	57.51	33.58	74.00	-40.42 peak
3	3069.345	6.14	30.74	54.94	58.05	39.99	68.20	-28.21 peak
4	4405.090	7.14	34.74	54.26	54.36	41.98	68.20	-26.22 peak
5	11000.000	11.68	37.50	53.00	51.51	47.69	74.00	-26.31 peak
6	p16500.000	13.99	42.10	52.36	47.97	51.70	68.20	-16.50 peak

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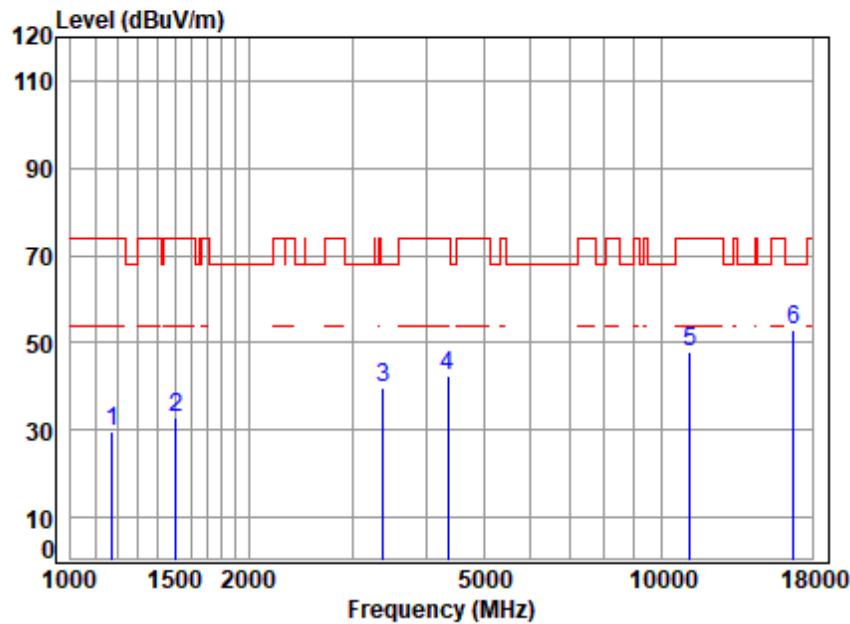
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5580 TX RSE  
Note : 5G WIFI 11AC20

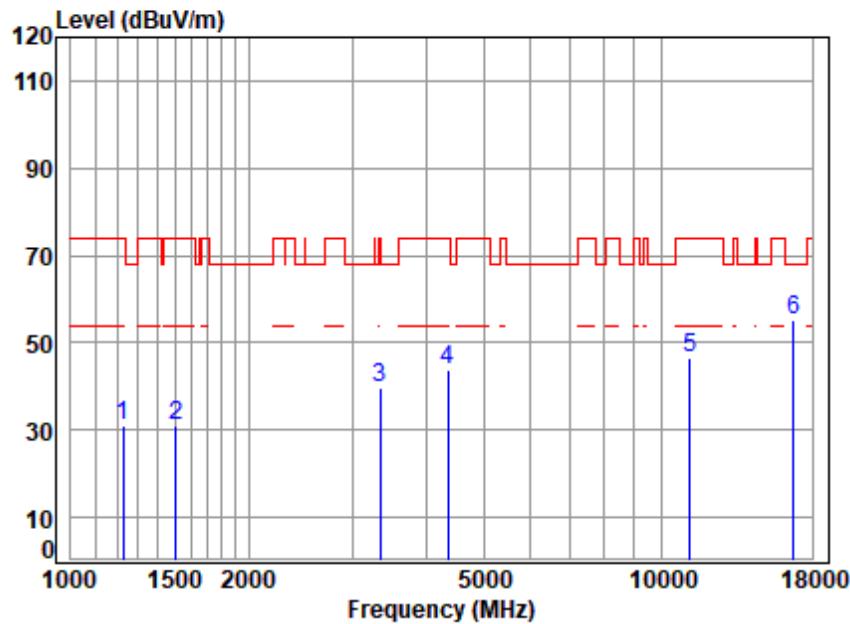
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1175.697	3.65	24.16	54.67	56.49	29.63	74.00	-44.37 peak
2	1507.470	4.05	26.83	54.78	56.86	32.96	74.00	-41.04 peak
3	3376.523	6.42	32.26	54.71	55.58	39.55	68.20	-28.65 peak
4	4354.454	7.08	34.44	54.26	55.09	42.35	74.00	-31.65 peak
5	11160.000	11.77	37.62	53.03	51.33	47.69	74.00	-26.31 peak
6	p16740.000	14.15	42.78	52.62	48.67	52.98	68.20	-15.22 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5580 TX RSE  
Note : 5G WIFI 11AC20

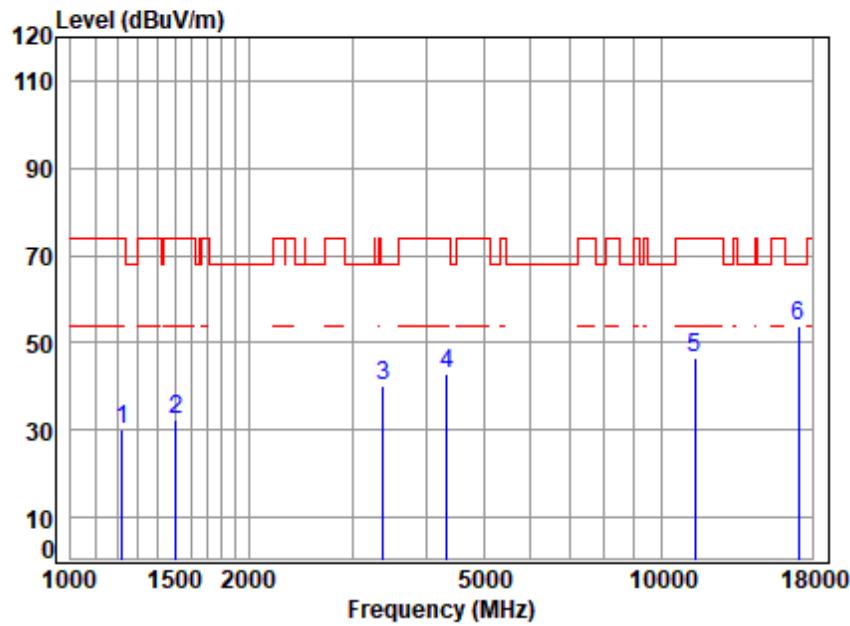
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1227.791	3.72	24.79	54.69	57.09	30.91	74.00	-43.09 peak
2	1507.470	4.05	26.83	54.78	54.95	31.05	74.00	-42.95 peak
3	3337.710	6.38	31.88	54.74	56.32	39.84	74.00	-34.16 peak
4	4354.454	7.08	34.44	54.26	56.48	43.74	74.00	-30.26 peak
5	11160.000	11.77	37.62	53.03	50.36	46.72	74.00	-27.28 peak
6	p16740.000	14.15	42.78	52.62	51.09	55.40	68.20	-12.80 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5700 TX RSE  
Note : 5G WIFI 11AC20

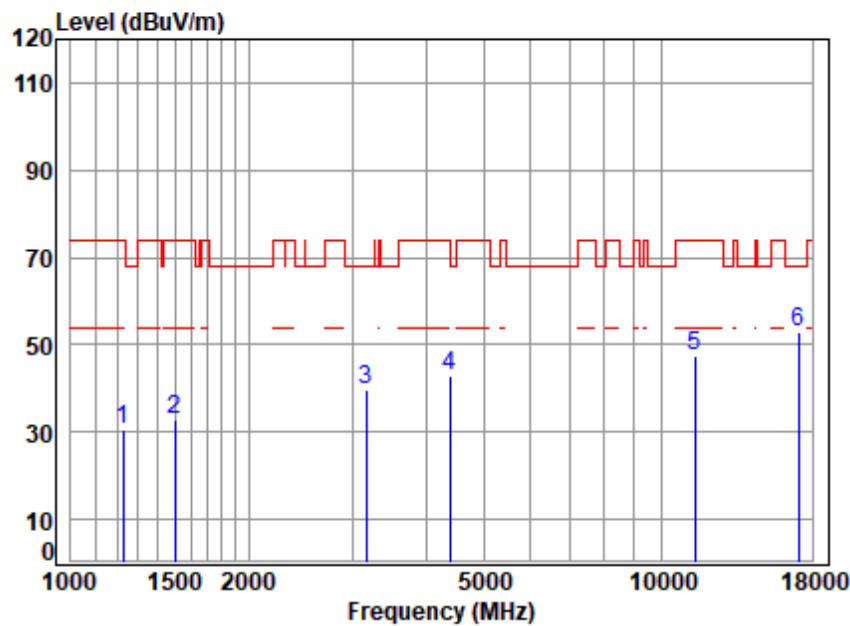
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1220.714	3.71	24.69	54.69	56.31	30.02	74.00	-43.98 peak
2	1507.470	4.05	26.83	54.78	56.36	32.46	74.00	-41.54 peak
3	3386.297	6.42	32.32	54.71	55.93	39.96	68.20	-28.24 peak
4	4341.886	7.07	34.34	54.26	55.62	42.77	74.00	-31.23 peak
5	11400.000	11.90	37.70	53.08	50.19	46.71	74.00	-27.29 peak
6	p17100.000	14.44	43.10	52.85	48.92	53.61	68.20	-14.59 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5700 TX RSE  
Note : 5G WIFI 11AC20

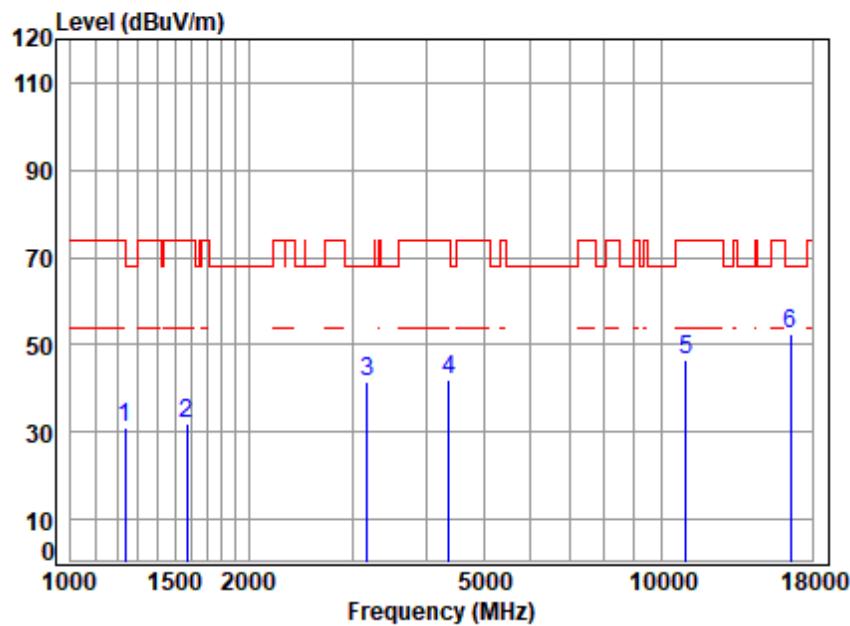
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1227.791	3.72	24.79	54.69	56.76	30.58	74.00	-43.42 peak
2	1503.119	4.04	26.81	54.78	56.71	32.78	74.00	-41.22 peak
3	3168.500	6.23	32.65	54.87	55.72	39.73	68.20	-28.47 peak
4	4392.376	7.13	34.74	54.26	55.48	43.09	74.00	-30.91 peak
5	11400.000	11.90	37.70	53.08	50.75	47.27	74.00	-26.73 peak
6	p17100.000	14.44	43.10	52.85	48.46	53.15	68.20	-15.05 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5510 TX RSE  
Note : 5G WIFI 11AC40

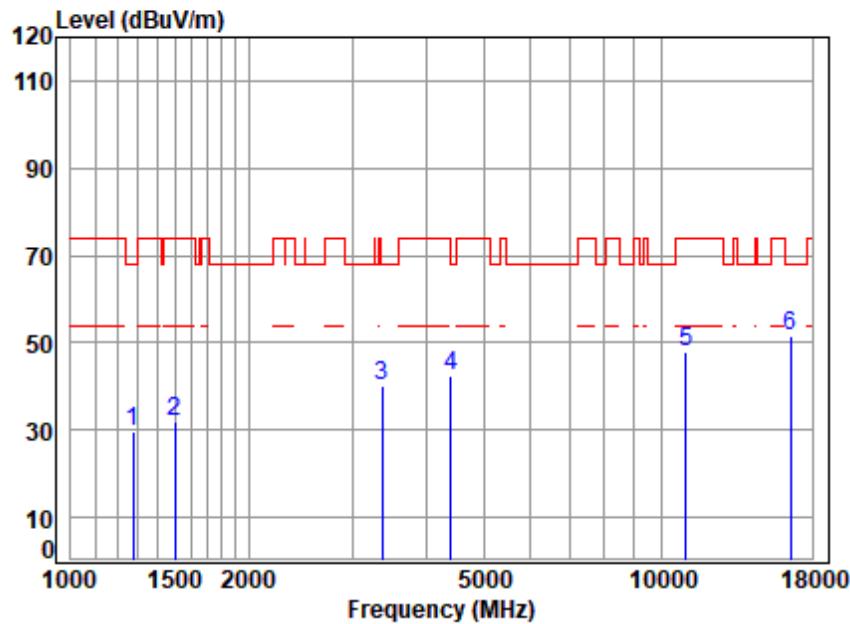
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1238.483	3.73	24.94	54.69	56.87	30.85	74.00	-43.15 peak
2	1574.265	4.15	26.90	54.80	55.50	31.75	74.00	-42.25 peak
3	3177.672	6.24	32.72	54.86	57.23	41.33	68.20	-26.87 peak
4	4367.058	7.10	34.54	54.26	54.82	42.20	74.00	-31.80 peak
5	11020.000	11.69	37.50	53.00	50.29	46.48	74.00	-27.52 peak
6	p16530.000	14.01	42.16	52.39	48.76	52.54	68.20	-15.66 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5510 TX RSE  
Note : 5G WIFI 11AC40

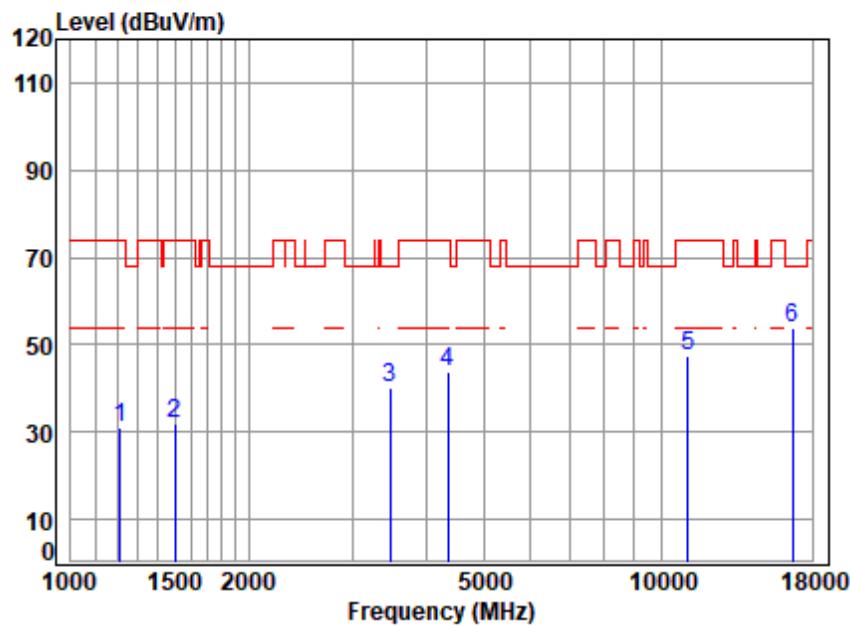
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1274.802	3.78	24.95	54.71	55.80	29.82	68.20	-38.38 peak
2	1503.119	4.04	26.81	54.78	55.98	32.05	74.00	-41.95 peak
3	3366.778	6.41	32.20	54.72	56.43	40.32	68.20	-27.88 peak
4	4405.090	7.14	34.74	54.26	54.65	42.27	68.20	-25.93 peak
5	11020.000	11.69	37.50	53.00	51.50	47.69	74.00	-26.31 peak
6	p16530.000	14.01	42.16	52.39	47.69	51.47	68.20	-16.73 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5550 TX RSE  
Note : 5G WIFI 11AC40

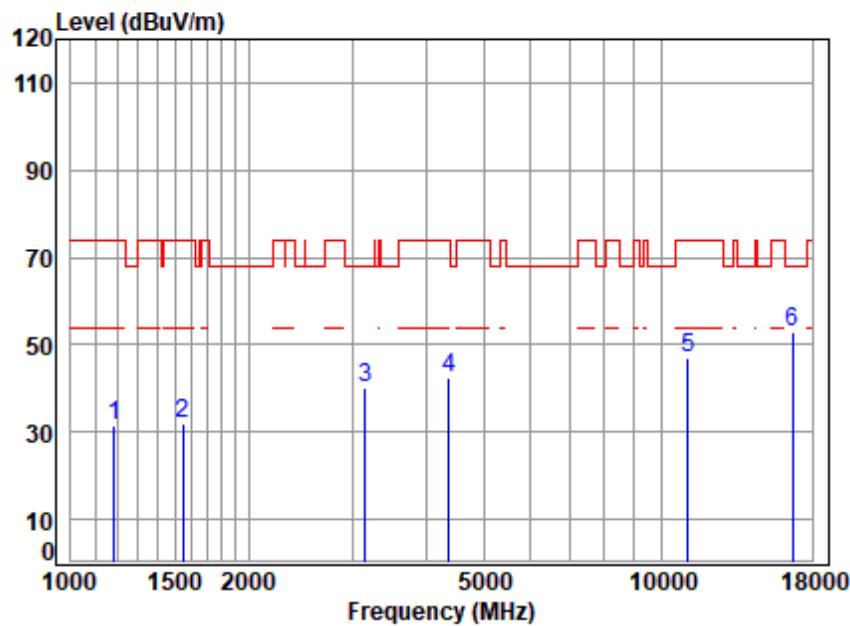
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1210.174	3.70	24.54	54.68	57.51	31.07	74.00	-42.93	peak	
2 1498.781	4.04	26.77	54.78	55.79	31.82	74.00	-42.18	peak	
3 3475.541	6.50	31.70	54.64	56.52	40.08	68.20	-28.12	peak	
4 4354.454	7.08	34.44	54.26	56.47	43.73	74.00	-30.27	peak	
5 11100.000	11.73	37.50	53.02	51.04	47.25	74.00	-26.75	peak	
6 p16650.000	14.09	42.50	52.52	49.64	53.71	68.20	-14.49	peak	

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5550 TX RSE  
Note : 5G WIFI 11AC40

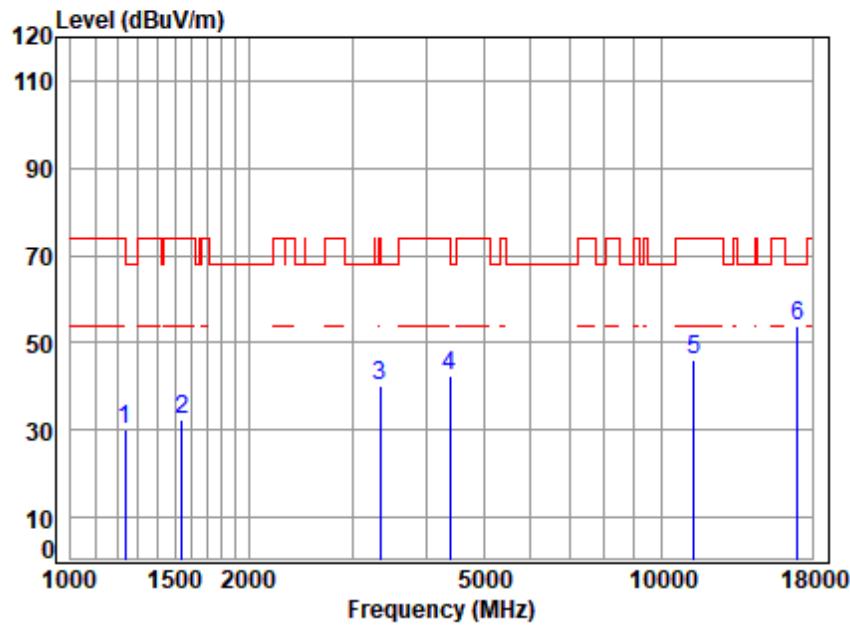
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1185.936	3.66	24.26	54.67	58.09	31.34	74.00	-42.66 peak
2	1547.199	4.11	26.99	54.79	55.62	31.93	74.00	-42.07 peak
3	3150.237	6.21	32.50	54.88	56.36	40.19	68.20	-28.01 peak
4	4367.058	7.10	34.54	54.26	54.88	42.26	74.00	-31.74 peak
5	11100.000	11.73	37.50	53.02	50.92	47.13	74.00	-26.87 peak
6	p16650.000	14.09	42.50	52.52	49.05	53.12	68.20	-15.08 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5670 TX RSE  
Note : 5G WIFI 11AC40

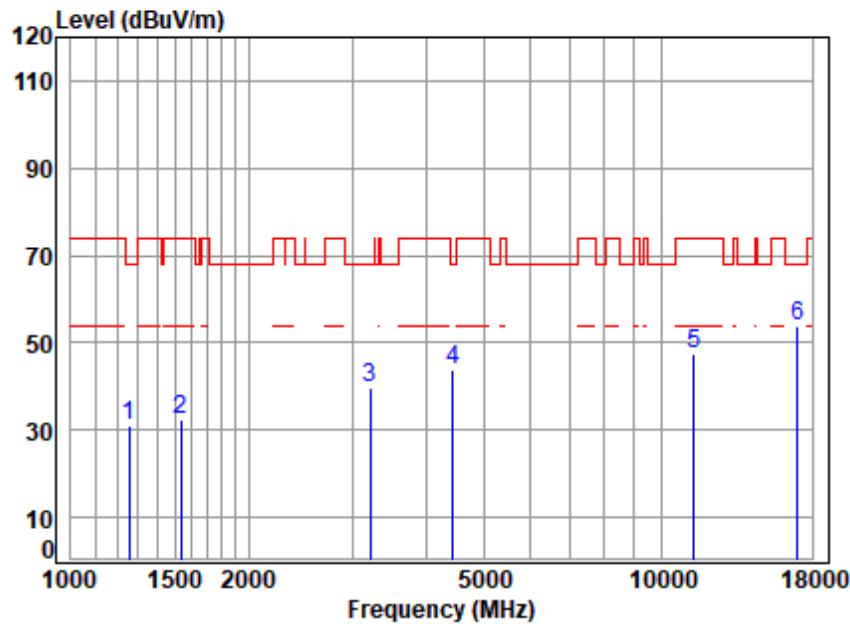
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1234.909	3.73	24.89	54.69	56.05	29.98	74.00	-44.02 peak
2	1542.733	4.10	26.97	54.79	56.33	32.61	74.00	-41.39 peak
3	3347.371	6.39	32.05	54.73	56.50	40.21	74.00	-33.79 peak
4	4379.699	7.11	34.64	54.26	55.05	42.54	74.00	-31.46 peak
5	11340.000	11.86	37.76	53.07	49.55	46.10	74.00	-27.90 peak
6	p17010.000	14.33	43.10	52.89	49.20	53.74	68.20	-14.46 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5670 TX RSE  
Note : 5G WIFI 11AC40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1256.512	3.76	25.06	54.70	57.01	31.13	68.20	-37.07 peak
2	1533.841	4.09	26.94	54.79	55.99	32.23	74.00	-41.77 peak
3	3214.623	6.27	32.67	54.83	55.73	39.84	68.20	-28.36 peak
4	4430.628	7.17	34.43	54.25	56.31	43.66	68.20	-24.54 peak
5	11340.000	11.86	37.76	53.07	50.96	47.51	74.00	-26.49 peak
6	p17010.000	14.33	43.10	52.89	49.34	53.88	68.20	-14.32 peak

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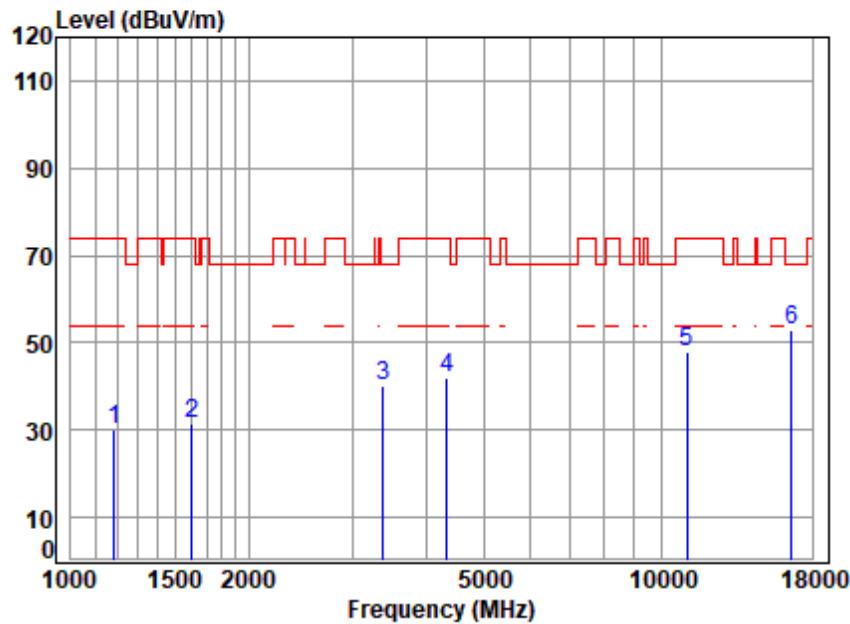
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5530 TX RSE  
Note : 5G WIFI 11AC80

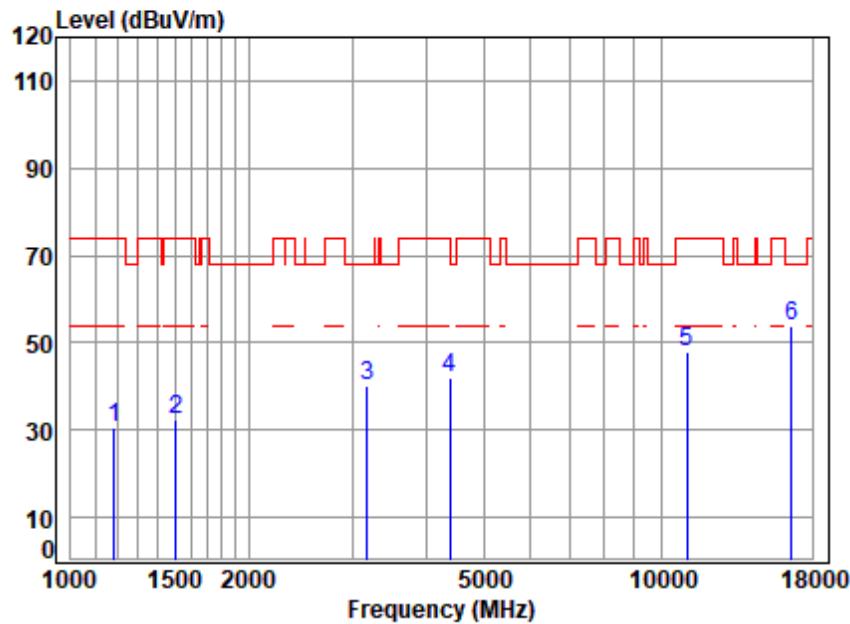
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1182.513	3.66	24.23	54.67	57.03	30.25	74.00	-43.75 peak
2	1601.804	4.19	26.78	54.80	55.54	31.71	74.00	-42.29 peak
3	3386.297	6.42	32.32	54.71	56.03	40.06	68.20	-28.14 peak
4	4341.886	7.07	34.34	54.26	54.80	41.95	74.00	-32.05 peak
5	11060.000	11.71	37.50	53.01	51.59	47.79	74.00	-26.21 peak
6	p16590.000	14.05	42.28	52.46	49.18	53.05	68.20	-15.15 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5530 TX RSE  
Note : 5G WIFI 11AC80

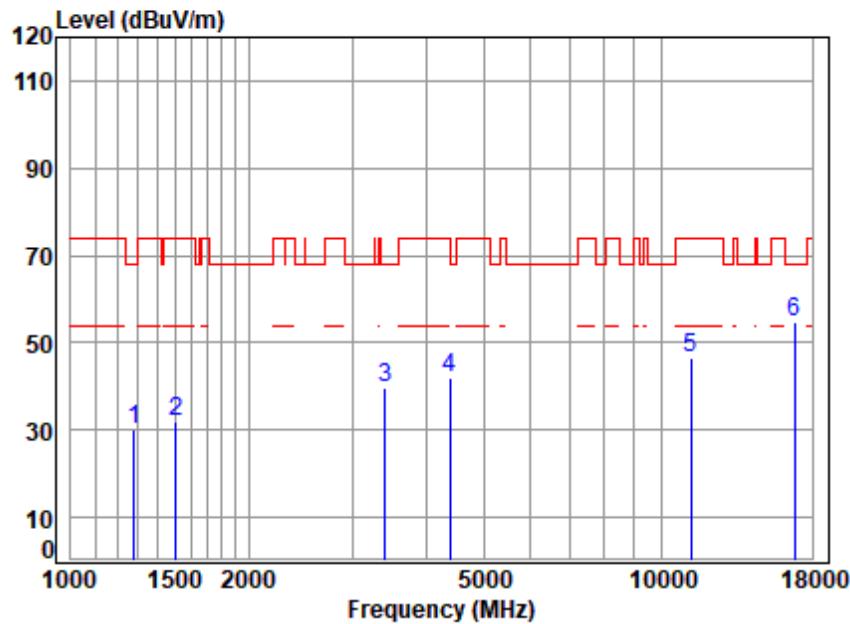
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1182.513	3.66	24.23	54.67	57.56	30.78	74.00	-43.22 peak
2	1507.470	4.05	26.83	54.78	56.45	32.55	74.00	-41.45 peak
3	3177.672	6.24	32.72	54.86	55.85	39.95	68.20	-28.25 peak
4	4392.376	7.13	34.74	54.26	54.52	42.13	74.00	-31.87 peak
5	11060.000	11.71	37.50	53.01	51.51	47.71	74.00	-26.29 peak
6	p16590.000	14.05	42.28	52.46	49.79	53.66	68.20	-14.54 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5610 TX RSE  
Note : 5G WIFI 11AC80

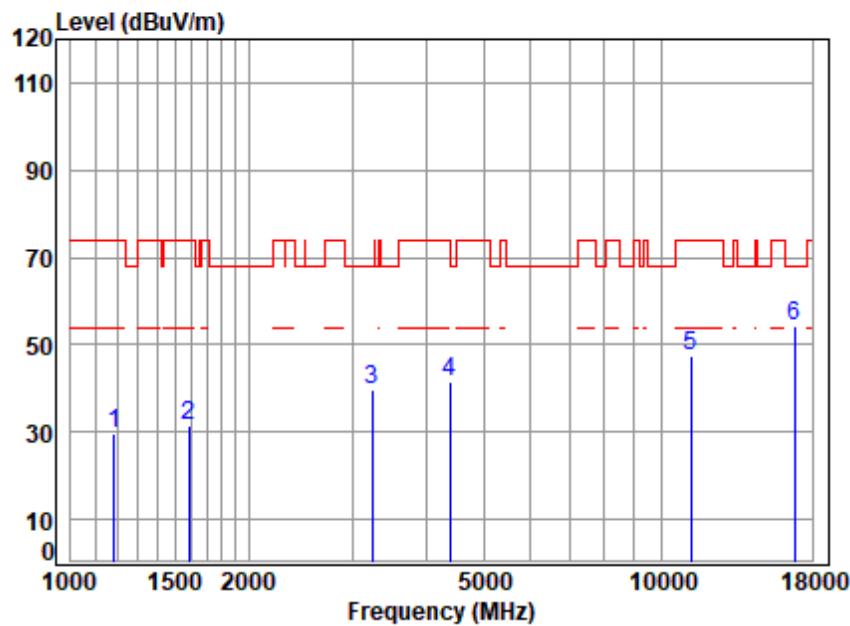
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1278.492	3.78	24.93	54.71	56.21	30.21	68.20	-37.99 peak
2	1507.470	4.05	26.83	54.78	55.74	31.84	74.00	-42.16 peak
3	3405.929	6.44	32.33	54.69	55.64	39.72	68.20	-28.48 peak
4	4392.376	7.13	34.74	54.26	54.41	42.02	74.00	-31.98 peak
5	11220.000	11.80	37.72	53.05	50.01	46.48	74.00	-27.52 peak
6	p16830.000	14.21	42.99	52.72	50.22	54.70	68.20	-13.50 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5610 TX RSE  
Note : 5G WIFI 11AC80

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1185.936	3.66	24.26	54.67	56.50	29.75	74.00	-44.25 peak
2	1587.975	4.17	26.85	54.80	55.14	31.36	74.00	-42.64 peak
3	3233.260	6.29	32.37	54.82	55.89	39.73	68.20	-28.47 peak
4	4392.376	7.13	34.74	54.26	54.05	41.66	74.00	-32.34 peak
5	11220.000	11.80	37.72	53.05	50.95	47.42	74.00	-26.58 peak
6	p16830.000	14.21	42.99	52.72	49.90	54.38	68.20	-13.82 peak

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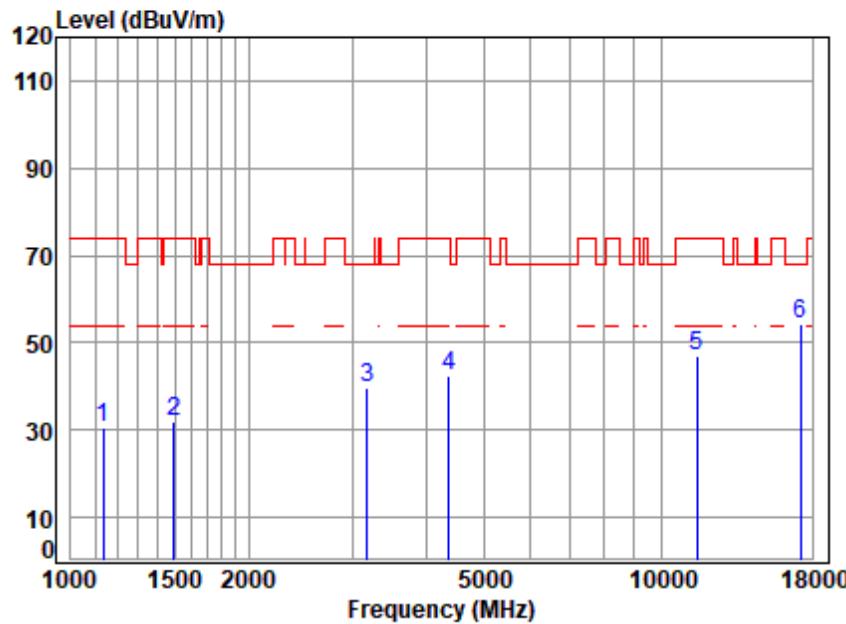
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5745 TX RSE  
Note : 5G WIFI 11A

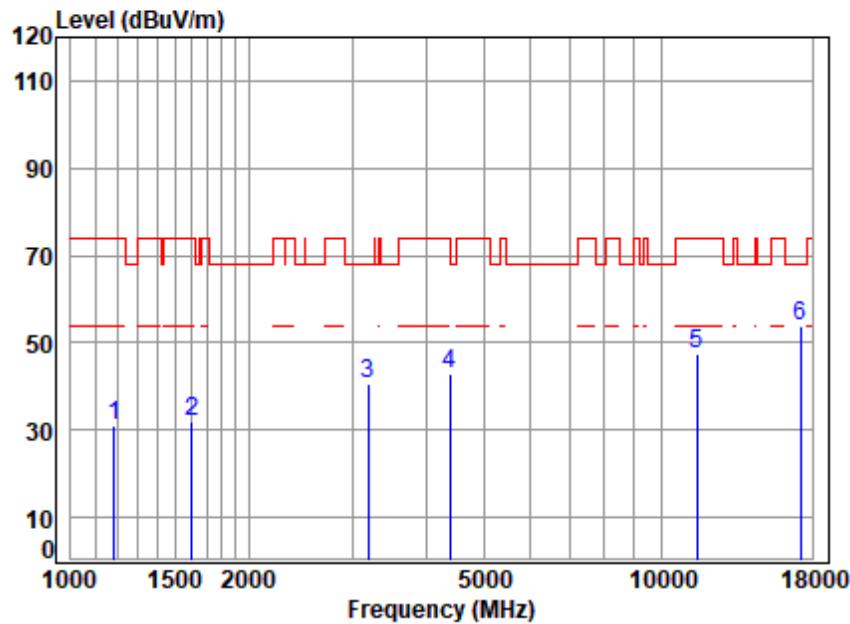
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1135.617	3.59	23.84	54.66	57.98	30.75	74.00	-43.25 peak
2	1494.455	4.03	26.64	54.77	55.96	31.86	74.00	-42.14 peak
3	3177.672	6.24	32.72	54.86	55.81	39.91	68.20	-28.29 peak
4	4367.058	7.10	34.54	54.26	55.06	42.44	74.00	-31.56 peak
5	11490.000	11.94	37.79	53.10	50.33	46.96	74.00	-27.04 peak
6	p17235.000	14.59	43.03	52.78	49.24	54.08	68.20	-14.12 peak

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Test Mode: 18; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5745 TX RSE  
Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1182.513	3.66	24.23	54.67	57.58	30.80	74.00	-43.20 peak
2	1606.441	4.19	26.74	54.81	55.68	31.80	74.00	-42.20 peak
3	3186.869	6.25	32.79	54.85	56.43	40.62	68.20	-27.58 peak
4	4392.376	7.13	34.74	54.26	55.28	42.89	74.00	-31.11 peak
5	11490.000	11.94	37.79	53.10	50.63	47.26	74.00	-26.74 peak
6	p17235.000	14.59	43.03	52.78	48.89	53.73	68.20	-14.47 peak

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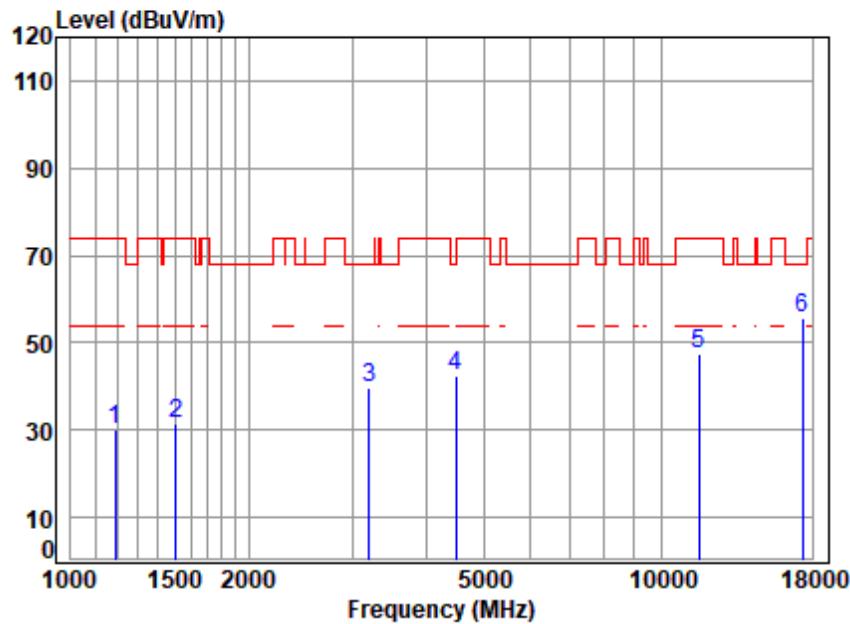
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5785 TX RSE  
Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1189.368	3.67	24.29	54.68	56.74	30.02	74.00	-43.98 peak
2	1507.470	4.05	26.83	54.78	55.40	31.50	74.00	-42.50 peak
3	3205.345	6.26	32.81	54.84	55.53	39.76	68.20	-28.44 peak
4	4495.125	7.24	33.66	54.25	55.69	42.34	68.20	-25.86 peak
5	11570.000	11.95	37.73	53.12	51.02	47.58	74.00	-26.42 peak
6	p17355.000	14.73	43.26	52.72	50.47	55.74	68.20	-12.46 peak

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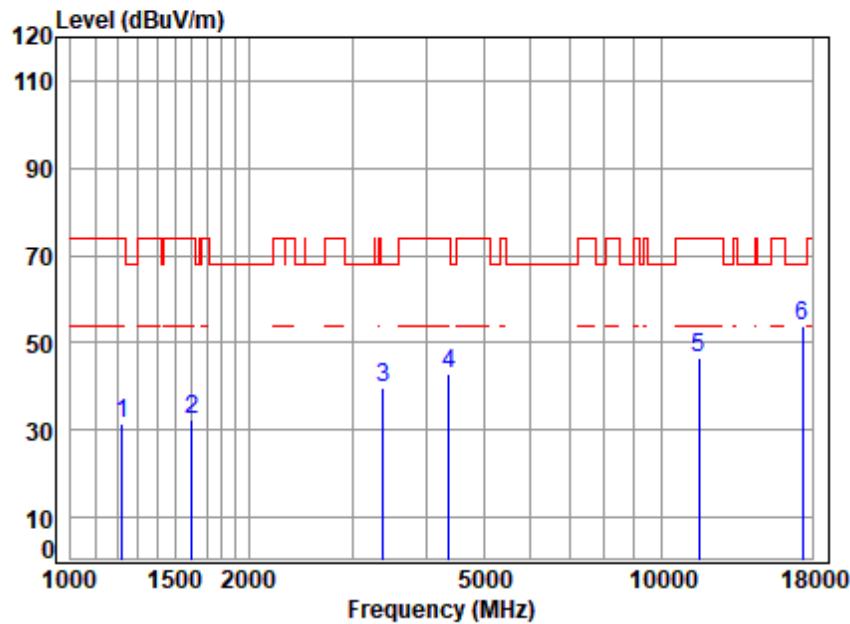
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Test Mode: 18; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5785 TX RSE  
Note : 5G WIFI 11A

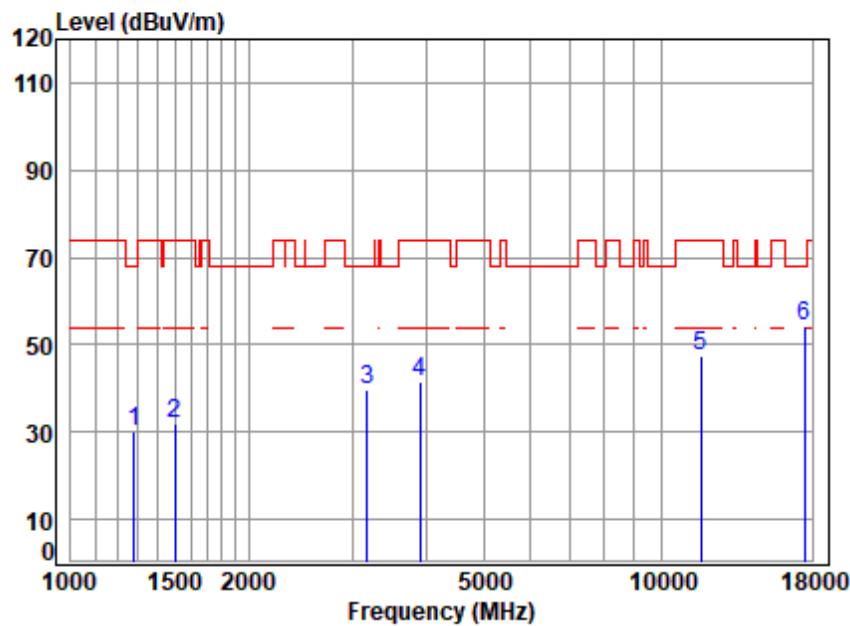
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1220.714	3.71	24.69	54.69	57.75	31.46	74.00	-42.54 peak
2	1601.804	4.19	26.78	54.80	56.30	32.47	74.00	-41.53 peak
3	3376.523	6.42	32.26	54.71	55.91	39.88	68.20	-28.32 peak
4	4367.058	7.10	34.54	54.26	55.57	42.95	74.00	-31.05 peak
5	11570.000	11.95	37.73	53.12	49.92	46.48	74.00	-27.52 peak
6	p17355.000	14.73	43.26	52.72	48.66	53.93	68.20	-14.27 peak

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Test Mode: 18; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5825 TX RSE  
Note : 5G WIFI 11A

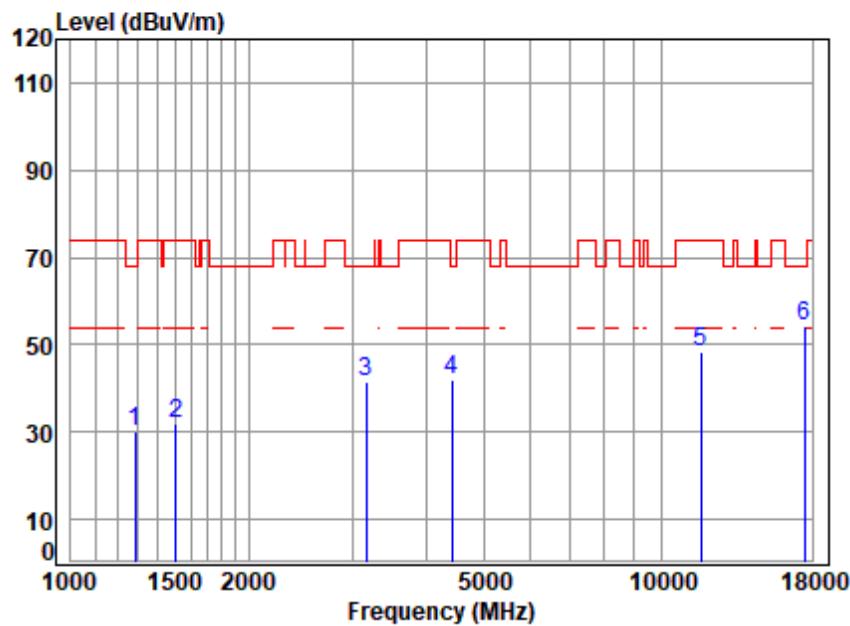
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1278.492	3.78	24.93	54.71	56.17	30.17	68.20	-38.03 peak
2	1498.781	4.04	26.77	54.78	55.68	31.71	74.00	-42.29 peak
3	3177.672	6.24	32.72	54.86	55.40	39.50	68.20	-28.70 peak
4	3901.516	6.63	33.79	54.36	55.43	41.49	74.00	-32.51 peak
5	11650.000	11.95	37.80	53.13	50.86	47.48	74.00	-26.52 peak
6	p17475.000	14.86	43.40	52.66	48.87	54.47	68.20	-13.73 peak

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Test Mode: 18; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5825 TX RSE  
Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1285.904	3.79	24.88	54.71	56.16	30.12	68.20	-38.08 peak
2	1507.470	4.05	26.83	54.78	55.92	32.02	74.00	-41.98 peak
3	3159.355	6.22	32.57	54.87	57.48	41.40	68.20	-26.80 peak
4	4417.841	7.16	34.59	54.26	54.67	42.16	68.20	-26.04 peak
5	11650.000	11.95	37.80	53.13	51.64	48.26	74.00	-25.74 peak
6	p17475.000	14.86	43.40	52.66	48.92	54.52	68.20	-13.68 peak

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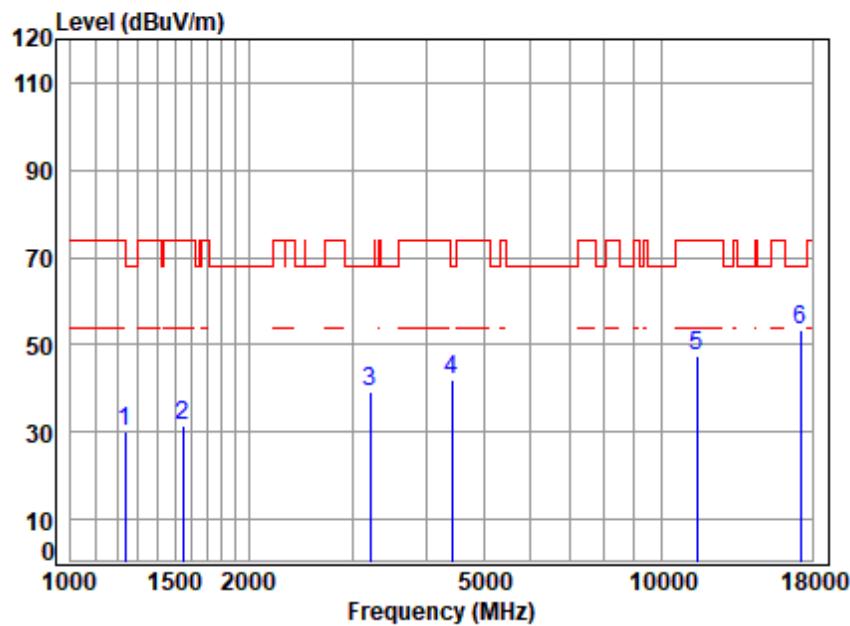
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5745 TX RSE  
Note : 5G WIFI 11AC20

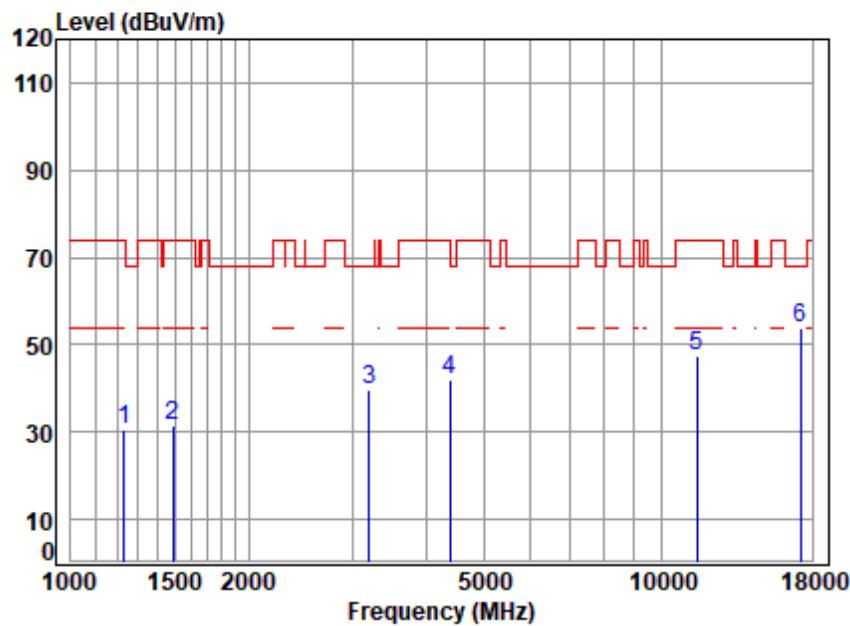
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1238.483	3.73	24.94	54.69	56.23	30.21	74.00	-43.79 peak
2	1547.199	4.11	26.99	54.79	55.28	31.59	74.00	-42.41 peak
3	3214.623	6.27	32.67	54.83	55.33	39.44	68.20	-28.76 peak
4	4417.841	7.16	34.59	54.26	54.51	42.00	68.20	-26.20 peak
5	11490.000	11.94	37.79	53.10	51.00	47.63	74.00	-26.37 peak
6	p17235.000	14.59	43.03	52.78	48.58	53.42	68.20	-14.78 peak

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Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5745 TX RSE  
Note : 5G WIFI 11AC20

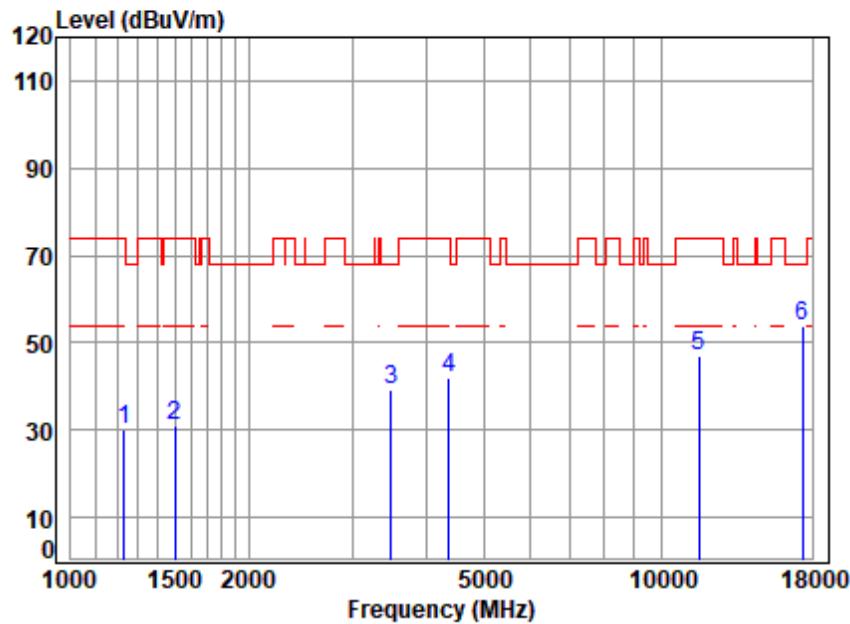
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1231.345	3.72	24.84	54.69	56.48	30.35	74.00	-43.65 peak
2	1490.142	4.03	26.52	54.77	55.71	31.49	74.00	-42.51 peak
3	3196.094	6.25	32.87	54.85	55.31	39.58	68.20	-28.62 peak
4	4379.699	7.11	34.64	54.26	54.70	42.19	74.00	-31.81 peak
5	11490.000	11.94	37.79	53.10	50.67	47.30	74.00	-26.70 peak
6	p17235.000	14.59	43.03	52.78	48.83	53.67	68.20	-14.53 peak

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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5785 TX RSE  
Note : 5G WIFI 11AC20

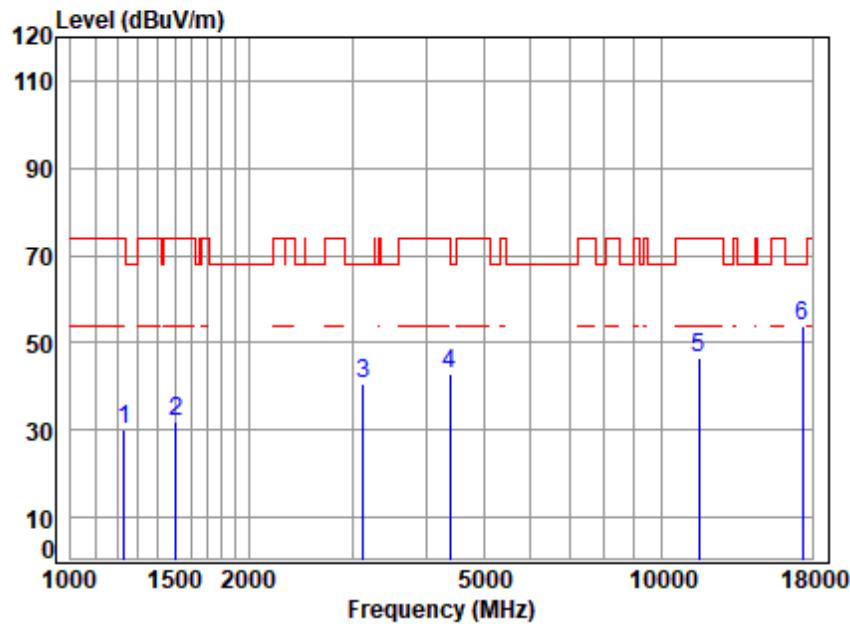
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1231.345	3.72	24.84	54.69	56.27	30.14	74.00	-43.86 peak
2	1503.119	4.04	26.81	54.78	54.99	31.06	74.00	-42.94 peak
3	3485.601	6.51	31.66	54.63	55.57	39.11	68.20	-29.09 peak
4	4367.058	7.10	34.54	54.26	54.81	42.19	74.00	-31.81 peak
5	11570.000	11.95	37.73	53.12	50.48	47.04	74.00	-26.96 peak
6	p17355.000	14.73	43.26	52.72	48.35	53.62	68.20	-14.58 peak

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Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5785 TX RSE  
Note : 5G WIFI 11AC20

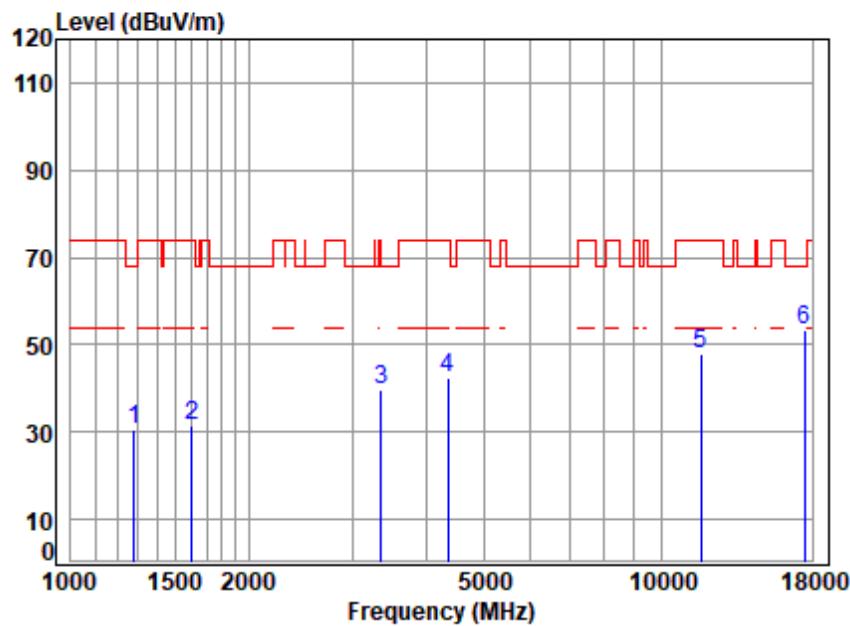
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1231.345	3.72	24.84	54.69	56.35	30.22	74.00	-43.78 peak
2	1507.470	4.05	26.83	54.78	55.76	31.86	74.00	-42.14 peak
3	3132.079	6.20	32.18	54.90	57.19	40.67	68.20	-27.53 peak
4	4392.376	7.13	34.74	54.26	55.28	42.89	74.00	-31.11 peak
5	11570.000	11.95	37.73	53.12	50.13	46.69	74.00	-27.31 peak
6	p17355.000	14.73	43.26	52.72	48.75	54.02	68.20	-14.18 peak

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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5825 TX RSE  
Note : 5G WIFI 11AC20

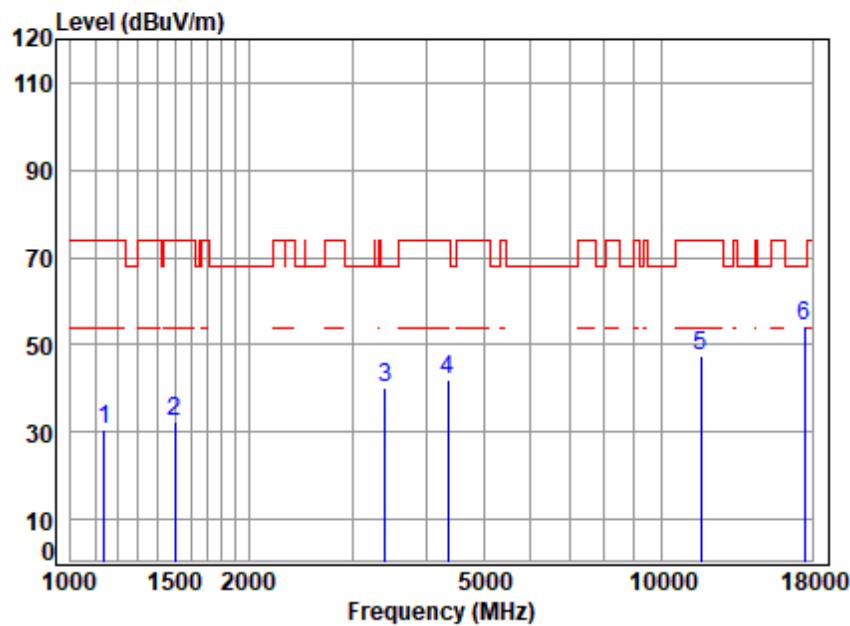
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1278.492	3.78	24.93	54.71	56.60	30.60	68.20	-37.60 peak
2	1606.441	4.19	26.74	54.81	55.35	31.47	74.00	-42.53 peak
3	3357.061	6.40	32.14	54.73	55.95	39.76	74.00	-34.24 peak
4	4354.454	7.08	34.44	54.26	54.98	42.24	74.00	-31.76 peak
5	11650.000	11.95	37.80	53.13	51.09	47.71	74.00	-26.29 peak
6	p17475.000	14.86	43.40	52.66	47.68	53.28	68.20	-14.92 peak

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Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5825 TX RSE  
Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1138.904	3.60	23.86	54.66	57.55	30.35	74.00	-43.65 peak
2	1503.119	4.04	26.81	54.78	56.21	32.28	74.00	-41.72 peak
3	3405.929	6.44	32.33	54.69	55.86	39.94	68.20	-28.26 peak
4	4354.454	7.08	34.44	54.26	54.84	42.10	74.00	-31.90 peak
5	11650.000	11.95	37.80	53.13	50.96	47.58	74.00	-26.42 peak
6	p17475.000	14.86	43.40	52.66	48.59	54.19	68.20	-14.01 peak

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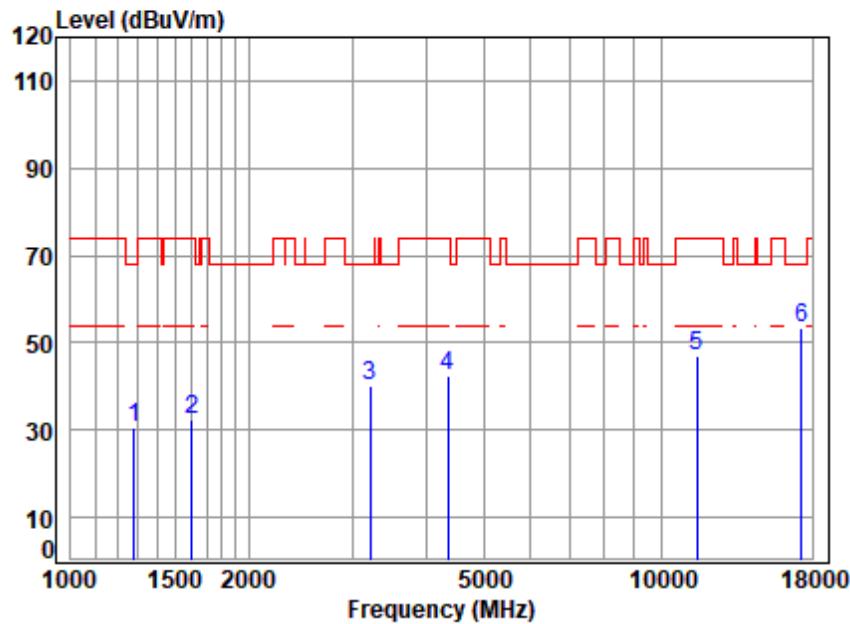
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5755 TX RSE  
Note : 5G WIFI 11AC40

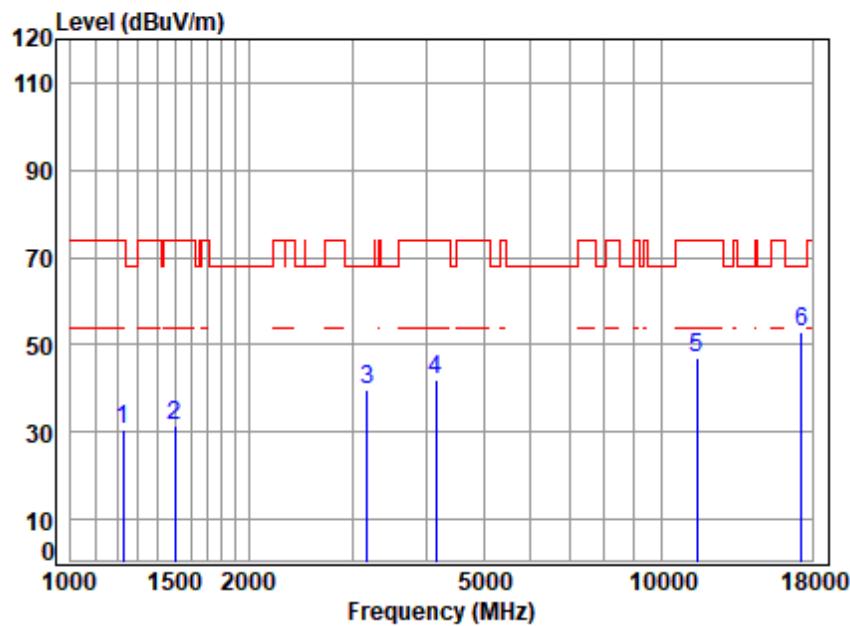
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1278.492	3.78	24.93	54.71	56.51	30.51	68.20	-37.69 peak
2	1606.441	4.19	26.74	54.81	56.07	32.19	74.00	-41.81 peak
3	3214.623	6.27	32.67	54.83	55.90	40.01	68.20	-28.19 peak
4	4354.454	7.08	34.44	54.26	55.19	42.45	74.00	-31.55 peak
5	11510.000	11.95	37.79	53.10	50.27	46.91	74.00	-27.09 peak
6	p17265.000	14.62	43.06	52.76	48.63	53.55	68.20	-14.65 peak

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Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5755 TX RSE  
Note : 5G WIFI 11AC40

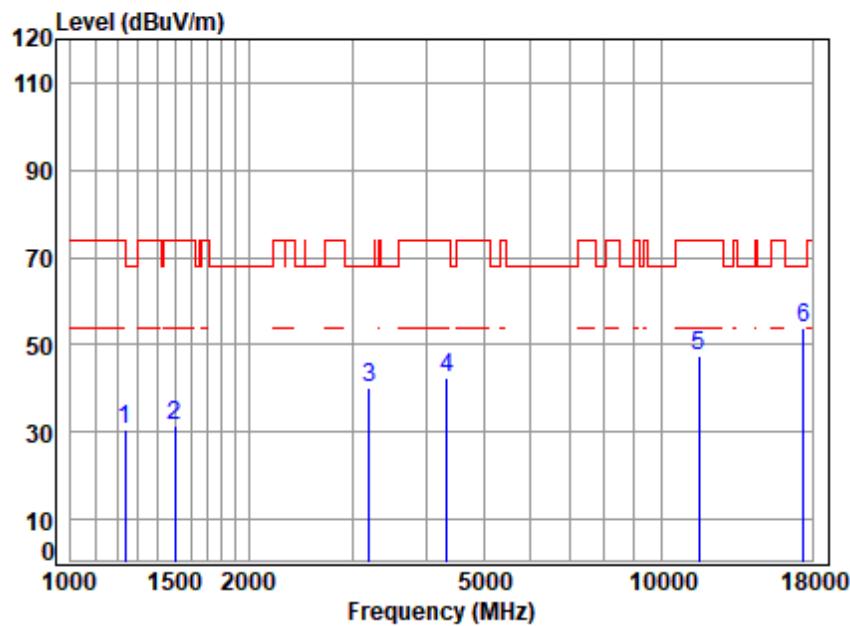
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1227.791	3.72	24.79	54.69	56.91	30.73	74.00	-43.27 peak
2	1503.119	4.04	26.81	54.78	55.55	31.62	74.00	-42.38 peak
3	3177.672	6.24	32.72	54.86	55.45	39.55	68.20	-28.65 peak
4	4145.664	6.83	33.73	54.28	55.56	41.84	74.00	-32.16 peak
5	11510.000	11.95	37.79	53.10	50.18	46.82	74.00	-27.18 peak
6	p17265.000	14.62	43.06	52.76	48.04	52.96	68.20	-15.24 peak

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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5795 TX RSE  
Note : 5G WIFI 11AC40

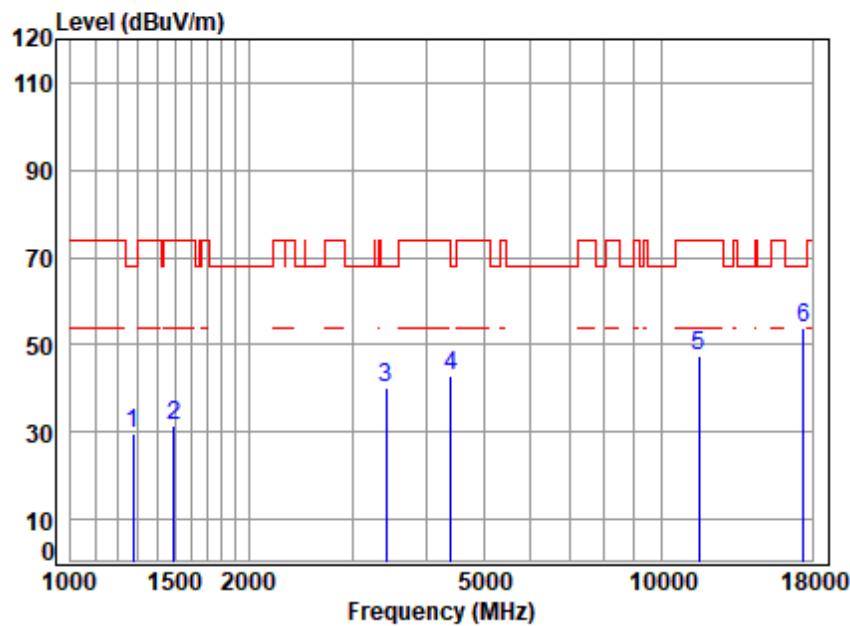
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1238.483	3.73	24.94	54.69	56.37	30.35	74.00	-43.65 peak
2	1503.119	4.04	26.81	54.78	55.47	31.54	74.00	-42.46 peak
3	3205.345	6.26	32.81	54.84	55.72	39.95	68.20	-28.25 peak
4	4329.354	7.05	34.23	54.26	55.57	42.59	74.00	-31.41 peak
5	11590.000	11.95	37.71	53.12	50.71	47.25	74.00	-26.75 peak
6	p17385.000	14.76	43.35	52.70	48.64	54.05	68.20	-14.15 peak

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Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5795 TX RSE  
Note : 5G WIFI 11AC40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1274.802	3.78	24.95	54.71	55.80	29.82	68.20	-38.38 peak
2	1494.455	4.03	26.64	54.77	55.52	31.42	74.00	-42.58 peak
3	3415.787	6.45	32.21	54.68	56.39	40.37	68.20	-27.83 peak
4	4405.090	7.14	34.74	54.26	55.20	42.82	68.20	-25.38 peak
5	11590.000	11.95	37.71	53.12	51.00	47.54	74.00	-26.46 peak
6	p17385.000	14.76	43.35	52.70	48.38	53.79	68.20	-14.41 peak

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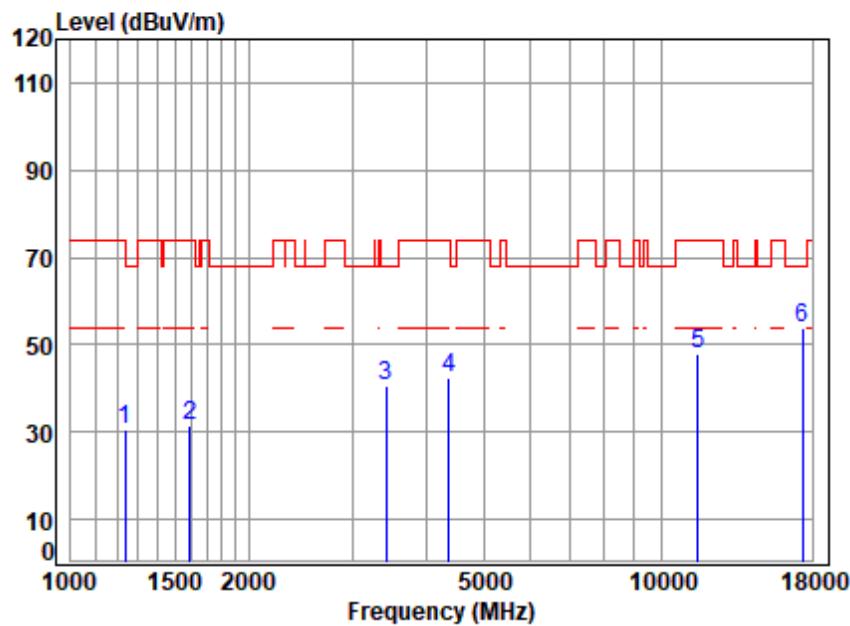
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01232AT  
Mode : 5775 TX RSE  
Note : 5G WIFI 11AC80

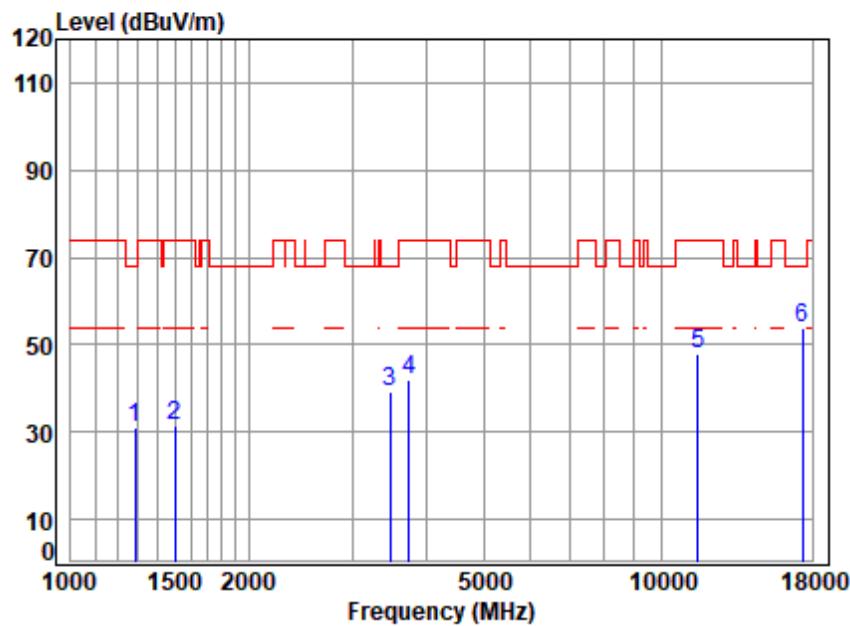
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1238.483	3.73	24.94	54.69	56.56	30.54	74.00	-43.46 peak
2	1592.571	4.18	26.83	54.80	55.30	31.51	74.00	-42.49 peak
3	3415.787	6.45	32.21	54.68	56.57	40.55	68.20	-27.65 peak
4	4367.058	7.10	34.54	54.26	54.90	42.28	74.00	-31.72 peak
5	11550.000	11.95	37.75	53.11	51.17	47.76	74.00	-26.24 peak
6	p17325.000	14.69	43.17	52.73	48.89	54.02	68.20	-14.18 peak

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Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01232AT  
Mode : 5775 TX RSE  
Note : 5G WIFI 11AC80

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1285.904	3.79	24.88	54.71	57.15	31.11	68.20	-37.09 peak
2	1503.119	4.04	26.81	54.78	55.49	31.56	74.00	-42.44 peak
3	3475.541	6.50	31.70	54.64	55.88	39.44	68.20	-28.76 peak
4	3735.978	6.58	32.93	54.47	57.06	42.10	74.00	-31.90 peak
5	11550.000	11.95	37.75	53.11	51.21	47.80	74.00	-26.20 peak
6	p17325.000	14.69	43.17	52.73	48.82	53.95	68.20	-14.25 peak

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## 7.5 Duty Cycle

Test Requirement      ANSI C63.10 (2013) Section 12.2  
Test Method:            ANSI C63.10 (2013) Section 12.2

### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C      Humidity: 40.3 % RH      Atmospheric Pressure: 1020 mbar

### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	10	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	11	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	12	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	13	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 20/40/80, Only the data of worst case is recorded in the report.
Final test	15	Charge + TX mode (U-NII-1) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2A) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-2C) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.

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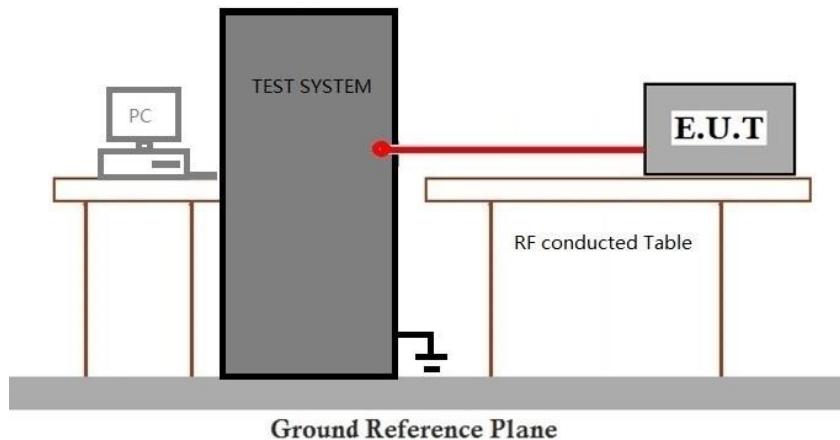
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Final test	18	Charge + TX mode (U-NII-3) _Keep the EUT in charging and continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
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### 7.5.3 Test Setup Diagram



### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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**7.6 99% Bandwidth**

Test Requirement ANSI C63.10 (2013) Section 12.4.2

Test Method: ANSI C63.10 (2013) Section 12.4.2

**7.6.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.4 °C      Humidity: 40.3 % RH      Atmospheric Pressure: 1020 mbar

**7.6.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Pre-scan	10	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	11	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	12	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	13	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 20/40/80, Only the data of worst case is recorded in the report.
Final test	15	Charge + TX mode (U-NII-1) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2A) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-2C) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.

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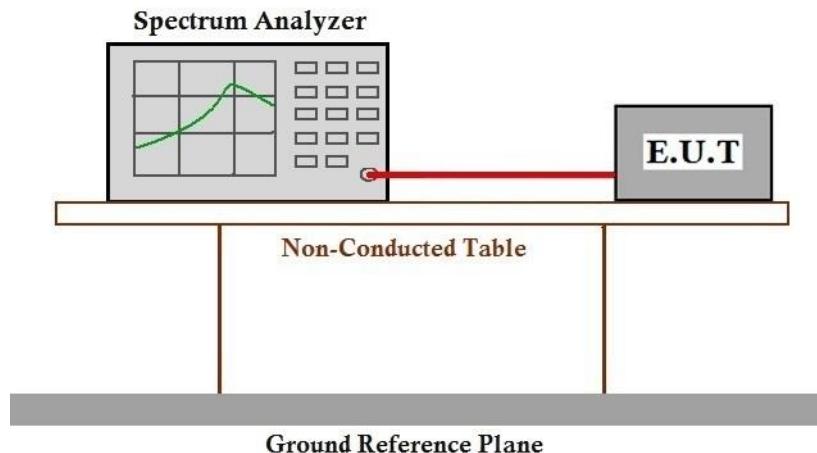
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Final test	18	Charge + TX mode (U-NII-3) _Keep the EUT in charging and continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
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### 7.6.3 Test Setup Diagram



### 7.6.4 Measurement Procedure and Data

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## 7.7 26dB Emission bandwidth

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

Test Method: ANSI C63.10 (2013) Section 12.4.1

### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C      Humidity: 40.3 % RH      Atmospheric Pressure: 1020 mbar

### 7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	10	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	11	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	12	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	13	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 20/40/80, Only the data of worst case is recorded in the report.
Final test	15	Charge + TX mode (U-NII-1) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2A) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-2C) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.

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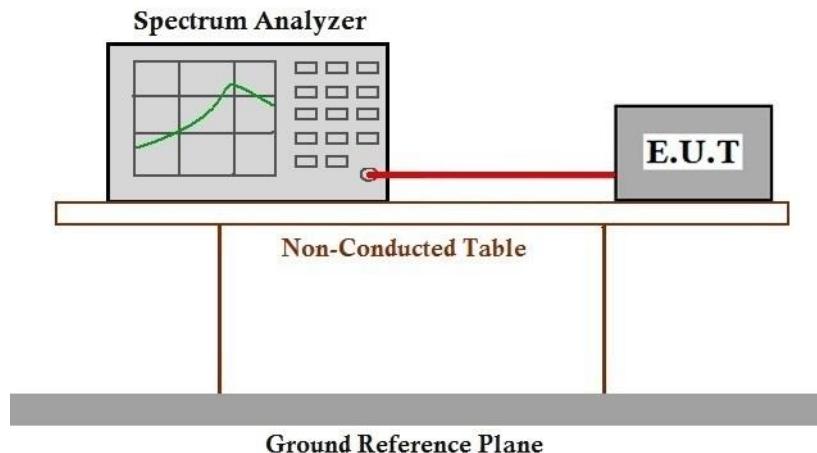
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Final test	18	Charge + TX mode (U-NII-3) _Keep the EUT in charging and continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 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 Minimum 6 dB bandwidth (5.725-5.85 GHz band )**

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

Test Method: ANSI C63.10 (2013) Section 6.9.2

Limit:

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

**7.8.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.4 °C Humidity: 40.3 % RH Atmospheric Pressure: 1020 mbar

**7.8.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Pre-scan	10	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	11	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	12	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	13	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 20/40/80, Only the data of worst case is recorded in the report.
Final test	15	Charge + TX mode (U-NII-1) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2A) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-2C) _Keep the EUT in charging and continuously

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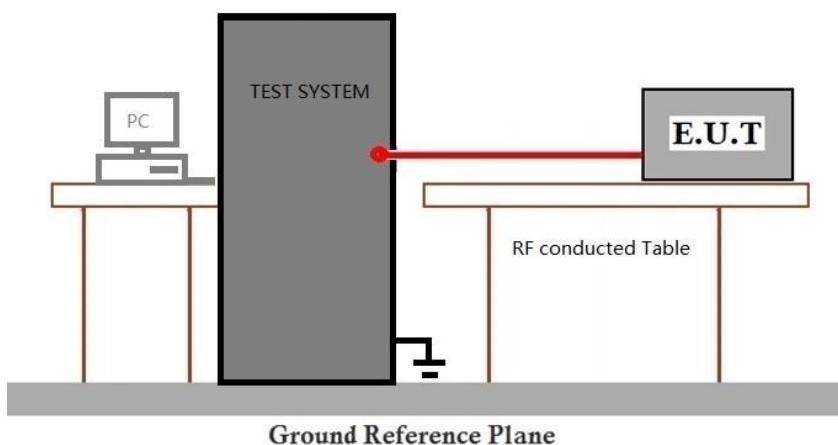
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		transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	18	Charge + TX mode (U-NII-3) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.

### 7.8.3 Test Setup Diagram



### 7.8.4 Measurement Procedure and Data

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**7.9 Maximum Conducted output power**

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

Test Method: ANSI C63.10 (2013) Section 12.3

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.

**7.9.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.4 °C

Humidity: 40.3 % RH

Atmospheric Pressure: 1020 mbar

**7.9.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Pre-scan	10	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	11	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	12	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	13	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 20/40/80, Only the data of worst case is recorded in the report.

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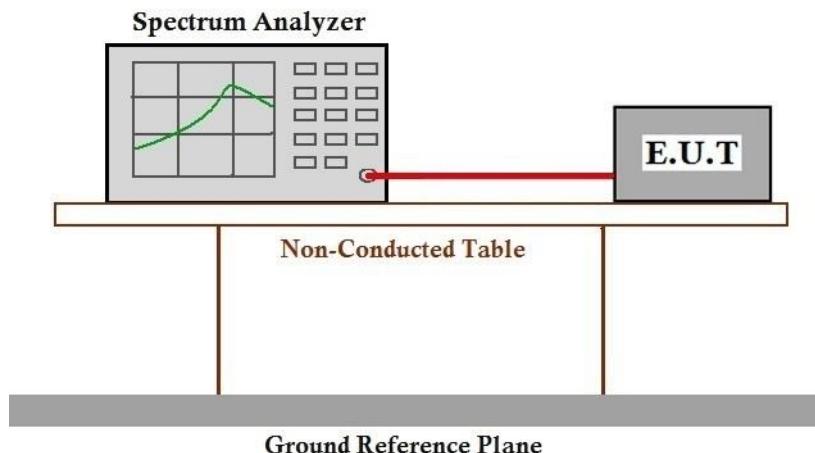
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Final test	15	Charge + TX mode (U-NII-1) _Keep the EUT in charging and continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2A) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-2C) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Final test	18	Charge + TX mode (U-NII-3) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.

### 7.9.3 Test Setup Diagram



### 7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 7.10 Peak Power spectrum density

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

Test Method: ANSI C63.10 (2013) Section 12.5

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.

### 7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

Humidity: 40.3 % RH

Atmospheric Pressure: 1020 mbar

### 7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	10	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	11	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	12	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	13	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 20/40/80, Only the data of worst case is recorded in the report.
Final test	15	Charge + TX mode (U-NII-1) _Keep the EUT in charging and 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

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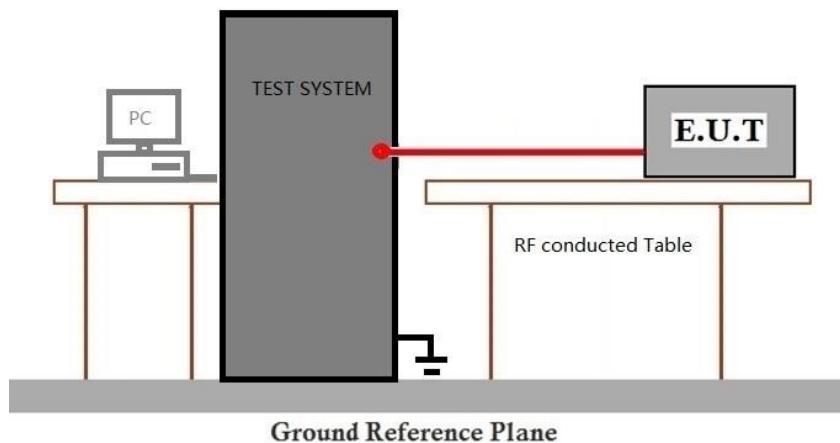
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		worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2A) _Keep the EUT in charging and continuously transmitting mode 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 20/40/80, Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-2C) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Final test	18	Charge + TX mode (U-NII-3) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.

#### 7.10.3 Test Setup Diagram



#### 7.10.4 Measurement Procedure and Data

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## 7.11 Frequency Stability

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

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

### 7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C      Humidity: 40.3 % RH      Atmospheric Pressure: 1020 mbar

### 7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	10	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	11	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	12	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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	13	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 20/40/80, Only the data of worst case is recorded in the report.
Final test	15	Charge + TX mode (U-NII-1) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2A) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-2C) _Keep the EUT in charging and 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 20/40/80, Only the data of worst case is recorded in the report.

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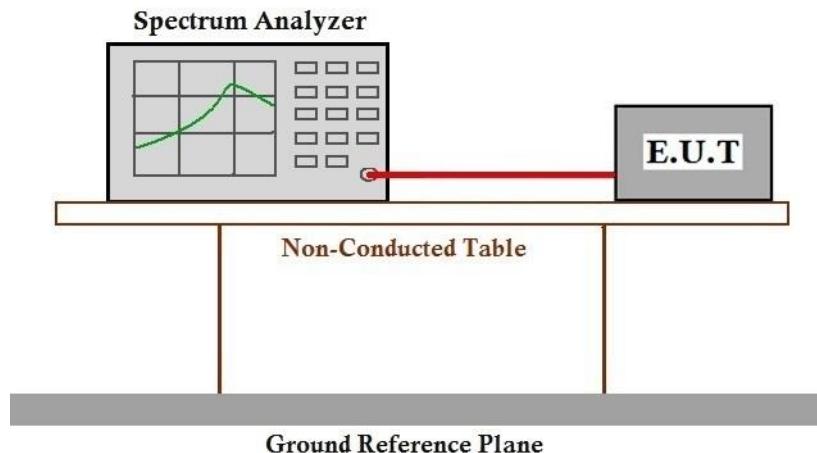
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Final test	18	Charge + TX mode (U-NII-3) _Keep the EUT in charging and continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 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 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.

**7.12.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.4 °C      Humidity: 40.3 % RH      Atmospheric Pressure: 1020 mbar

**7.12.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	25	Normal operating_Keep the EUT communication with the companion device.



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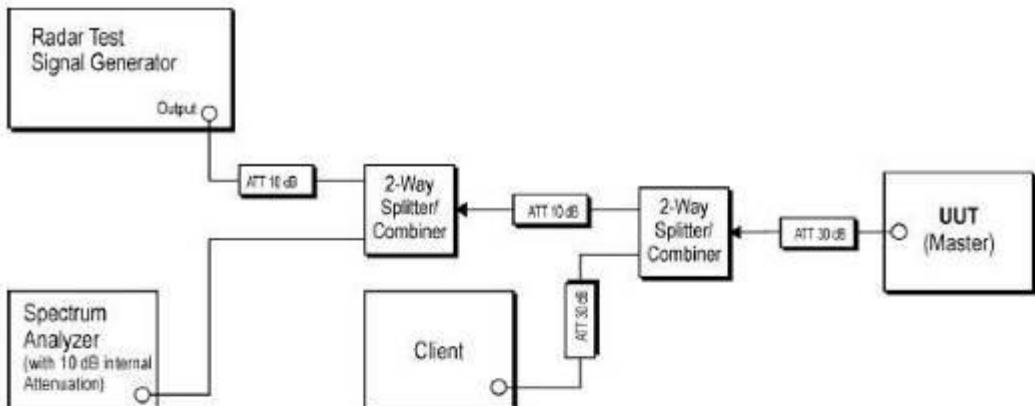
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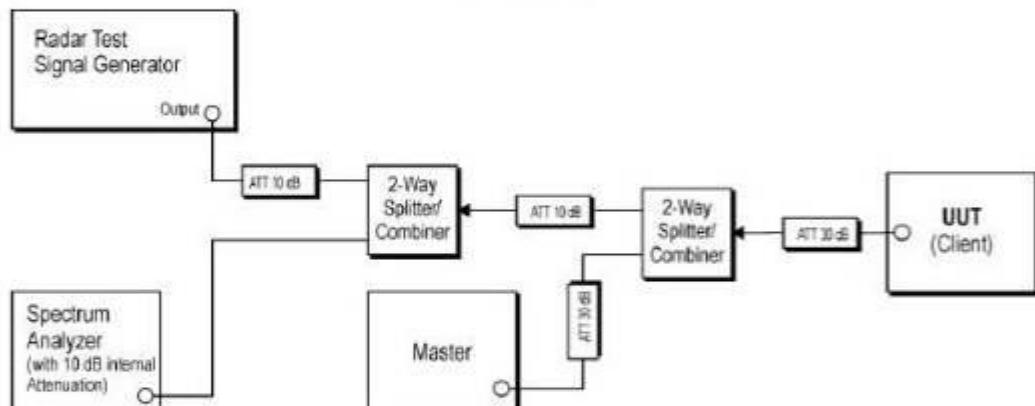
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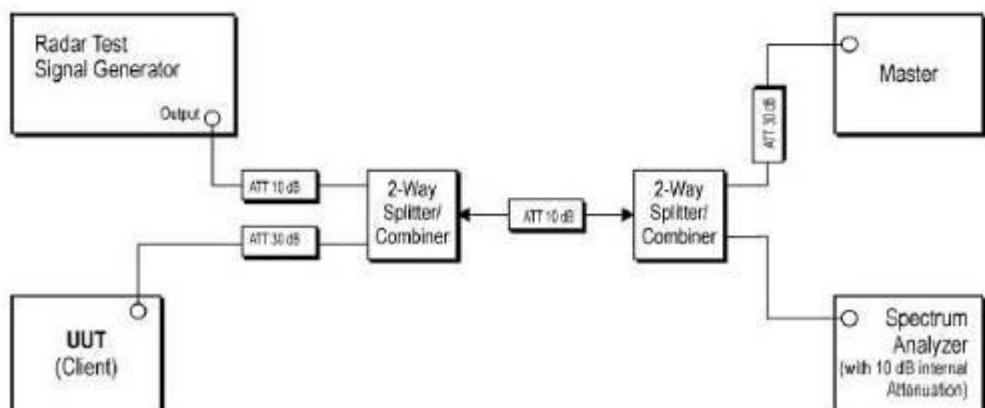
## 7.12.3 Test Setup Diagram



DFS master



DFS slave with radar detection



DFS slave without radar detection

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**7.12.4 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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**7.13 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: 23.4 °C      Humidity: 40.3 % RH      Atmospheric Pressure: 1020 mbar

**7.13.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	25	Normal operating_Keep the EUT communication with the companion device.



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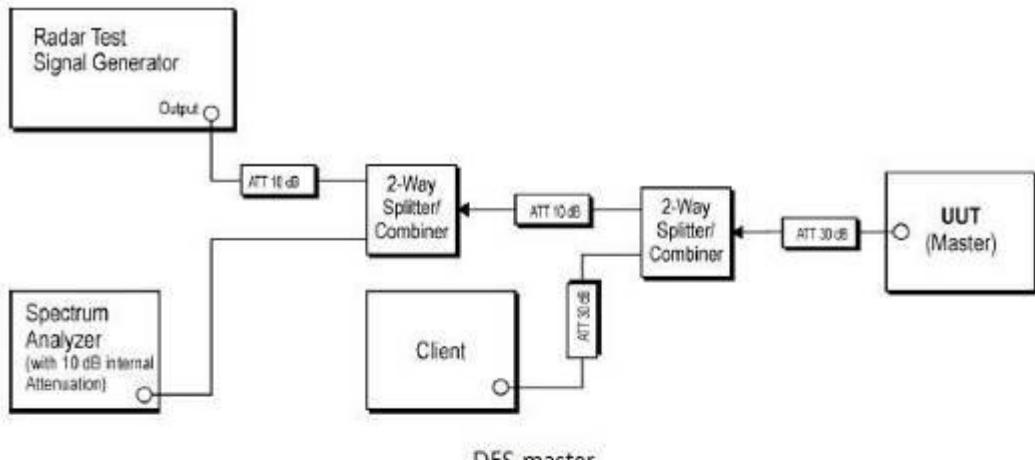
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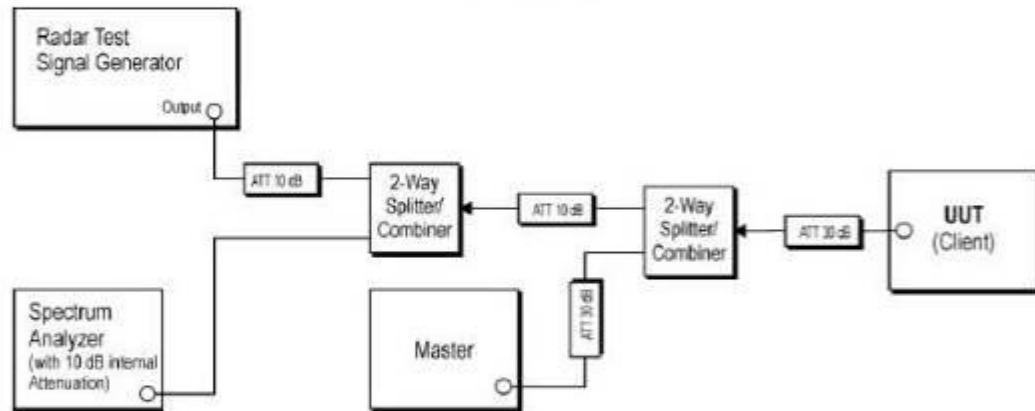
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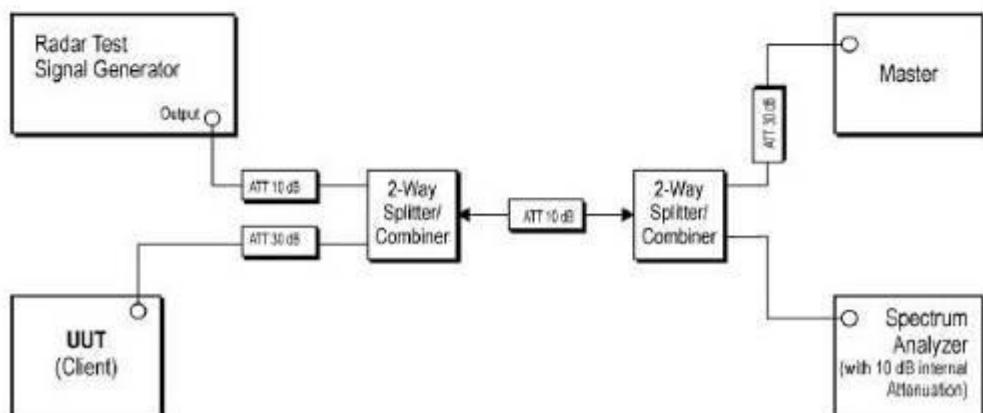
## 7.13.3 Test Setup Diagram



DFS master



DFS slave with radar detection



DFS slave without radar detection

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**7.13.4 Measurement Procedure and Data**

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =  $S$  (12000ms) /  $B$  (4000); where Dwell is the dwell time per spectrum analyzer sampling bin,  $S$  is sweep time and  $B$  is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by:  $C$  (ms) =  $N$  X Dwell (0.3ms); where  $C$  is the Closing Time,  $N$  is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



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**7.14 Channel Closing Transmission Time**

Test Requirement KDB 905462 D02 Section 5.1

Test Method: KDB 905462 D02 Section 7.8.3

Limit:

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

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

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

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

**7.14.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.4 °C

Humidity: 40.3 % RH

Atmospheric Pressure: 1020 mbar

**7.14.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	25	Normal operating_Keep the EUT communication with the companion device.

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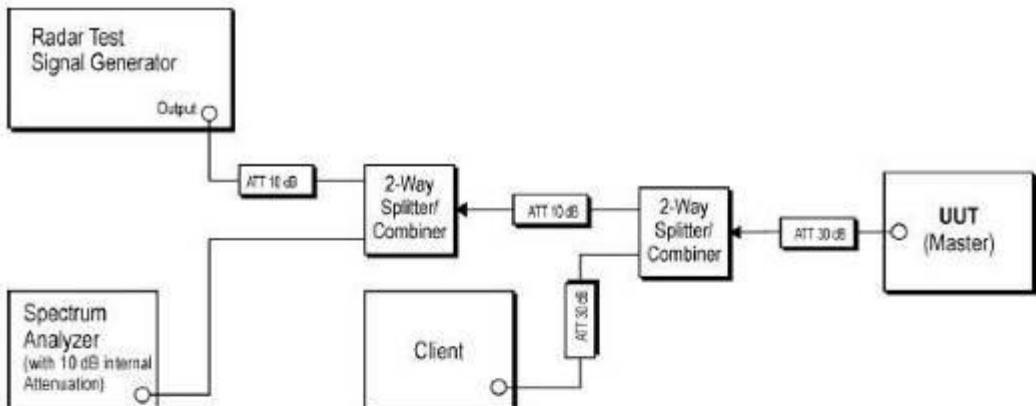


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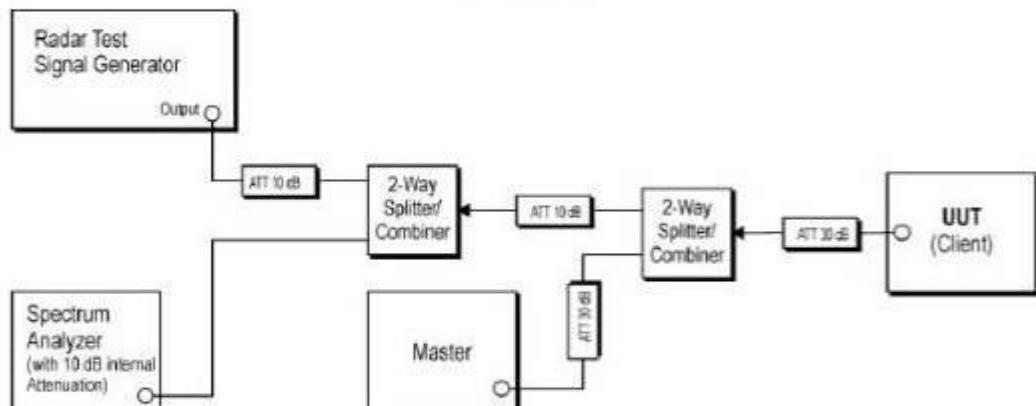
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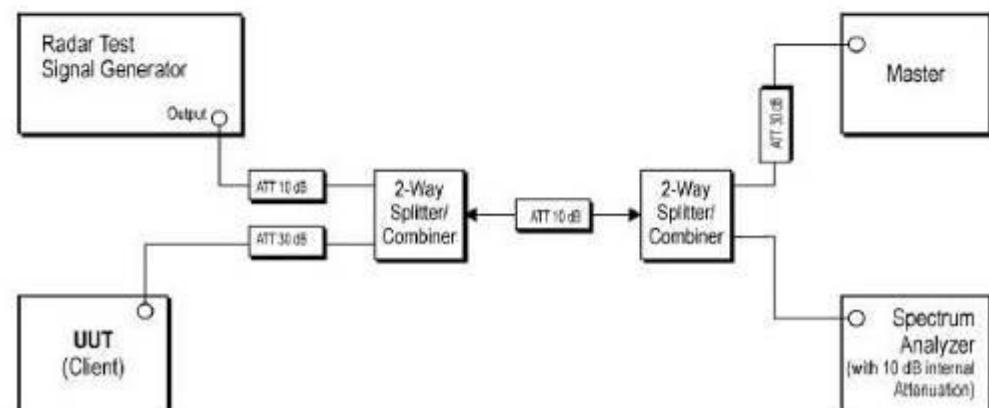
## 7.14.3 Test Setup Diagram



DFS master



DFS slave with radar detection



DFS slave without radar detection

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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.
- 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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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2504001232AT

## 9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2504001232AT



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## 10 Appendix

### 1. Duty Cycle

#### 1.1 Test Result

##### 1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.362	1.558	87.42	0.58	0.03
		5200	1.360	1.558	87.29	0.59	0.03
		5240	1.362	1.558	87.42	0.58	0.03
		5260	1.361	1.558	87.36	0.59	0.03
		5300	1.361	1.558	87.36	0.59	0.03
		5320	1.361	1.557	87.41	0.58	0.03
		5500	1.360	1.558	87.29	0.59	0.03
		5580	1.361	1.558	87.36	0.59	0.03
		5700	1.361	1.558	87.36	0.59	0.03
		5745	1.362	1.558	87.42	0.58	0.03
		5785	1.362	1.558	87.42	0.58	0.03
		5825	1.362	1.558	87.42	0.58	0.03
802.11n (HT20)	SISO	5180	1.273	1.470	86.60	0.62	0.03
		5200	1.273	1.470	86.60	0.62	0.03
		5240	1.274	1.470	86.67	0.62	0.03
		5260	1.271	1.470	86.46	0.63	0.03
		5300	1.274	1.470	86.67	0.62	0.00
		5320	1.272	1.470	86.53	0.63	0.03
		5500	1.274	1.470	86.67	0.62	0.03
		5580	1.273	1.470	86.60	0.62	0.03
		5700	1.274	1.470	86.67	0.62	0.03
		5745	1.273	1.471	86.54	0.63	0.03
		5785	1.272	1.470	86.53	0.63	0.03
		5825	1.272	1.470	86.53	0.63	0.03
802.11n (HT40)	SISO	5190	0.490	0.687	71.32	1.47	0.03
		5230	0.490	0.687	71.32	1.47	0.03
		5270	0.489	0.688	71.08	1.48	0.07
		5310	0.490	0.687	71.32	1.47	0.03

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SZEMC-TRF-01 Rev. A/1

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		5510	0.488	0.687	71.03	1.49	0.03
		5550	0.488	0.687	71.03	1.49	0.03
		5670	0.488	0.687	71.03	1.49	0.06
		5755	0.488	0.688	70.93	1.49	0.03
		5795	0.488	0.687	71.03	1.49	0.06
802.11ac (VHT20)	SISO	5180	0.976	1.174	83.13	0.80	0.03
		5200	0.978	1.174	83.30	0.79	0.03
		5240	0.978	1.174	83.30	0.79	0.03
		5260	0.978	1.175	83.23	0.80	0.06
		5300	0.976	1.174	83.13	0.80	0.03
		5320	0.978	1.174	83.30	0.79	0.00
		5500	0.977	1.175	83.15	0.80	0.03
		5580	0.976	1.174	83.13	0.80	0.00
		5700	0.976	1.174	83.13	0.80	0.03
		5745	0.976	1.174	83.13	0.80	0.03
		5785	0.976	1.174	83.13	0.80	0.00
		5825	0.976	1.174	83.13	0.80	0.03
		5190	0.492	0.691	71.20	1.48	0.03
802.11ac (VHT40)	SISO	5230	0.494	0.691	71.49	1.46	0.03
		5270	0.492	0.692	71.10	1.48	0.06
		5310	0.492	0.691	71.20	1.48	0.03
		5510	0.492	0.691	71.20	1.48	0.03
		5550	0.494	0.691	71.49	1.46	0.04
		5670	0.495	0.692	71.53	1.46	0.06
		5755	0.494	0.691	71.49	1.46	0.02
		5795	0.495	0.691	71.64	1.45	0.04
		5210	0.256	0.448	57.14	2.43	0.10
802.11ac (VHT80)	SISO	5290	0.250	0.448	55.80	2.53	0.02
		5530	0.248	0.448	55.36	2.57	0.07
		5610	0.249	0.448	55.58	2.55	0.04
		5775	0.248	0.447	55.48	2.56	0.06

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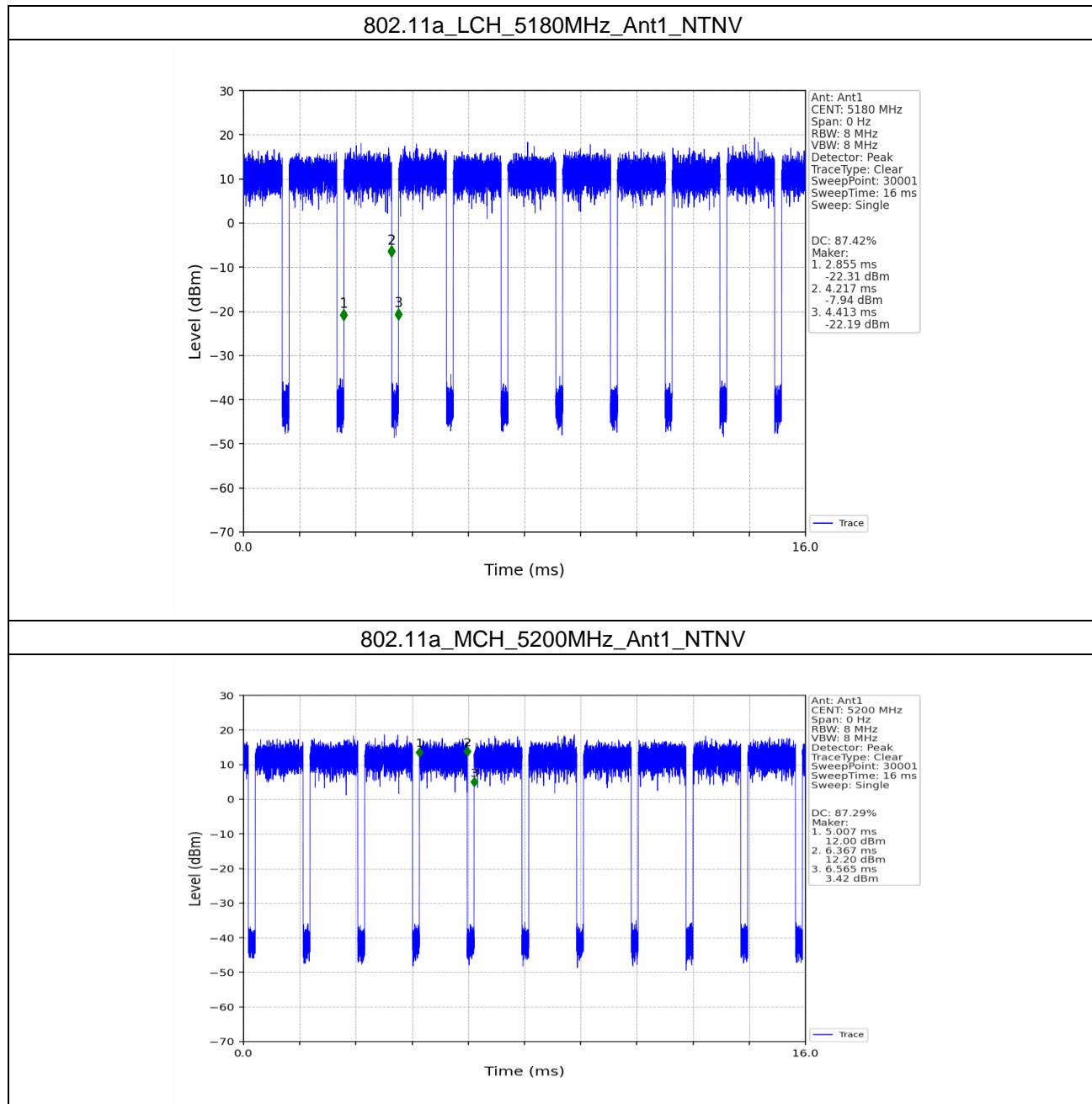
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### 1.2 Test Graph

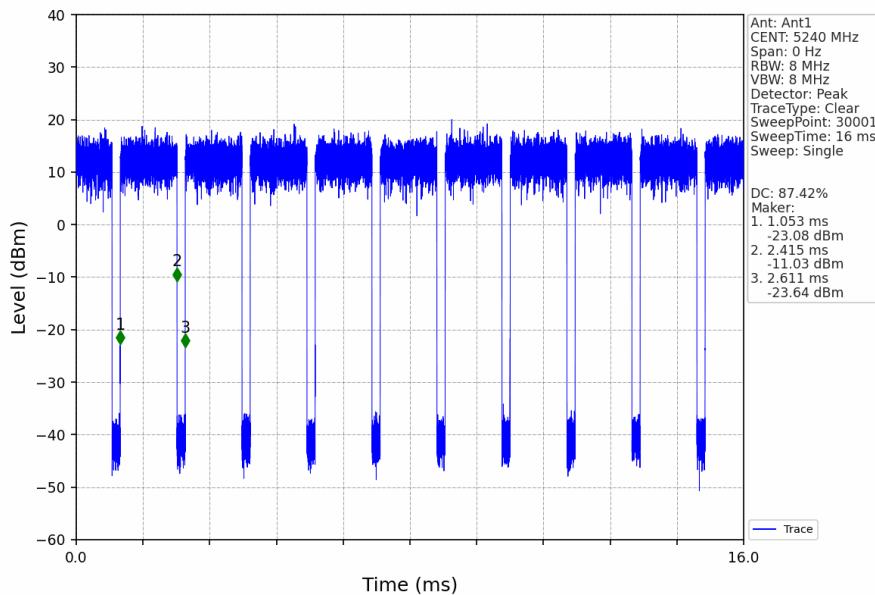
#### 1.2.1 Ant1



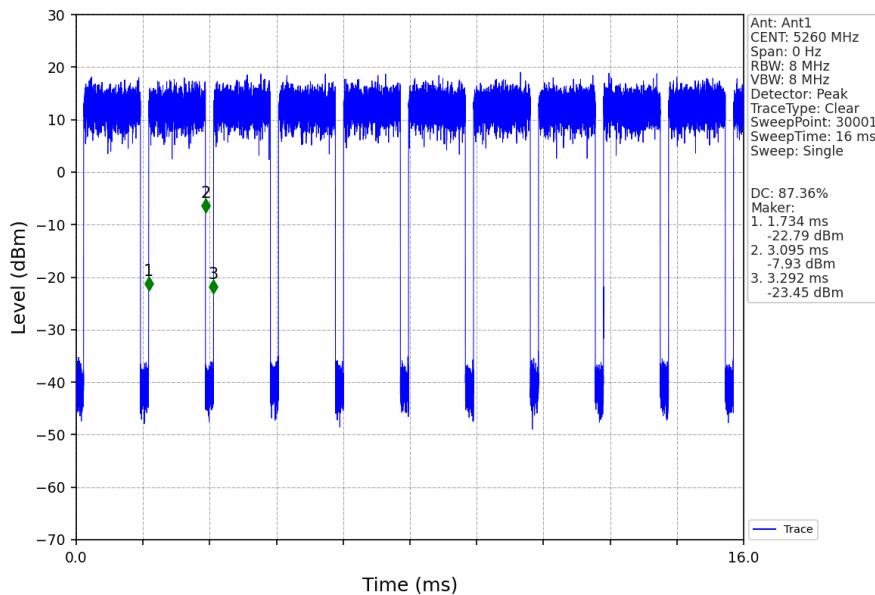
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### 802.11a\_HCH\_5240MHz\_Ant1\_NTNV



### 802.11a\_LCH\_5260MHz\_Ant1\_NTNV



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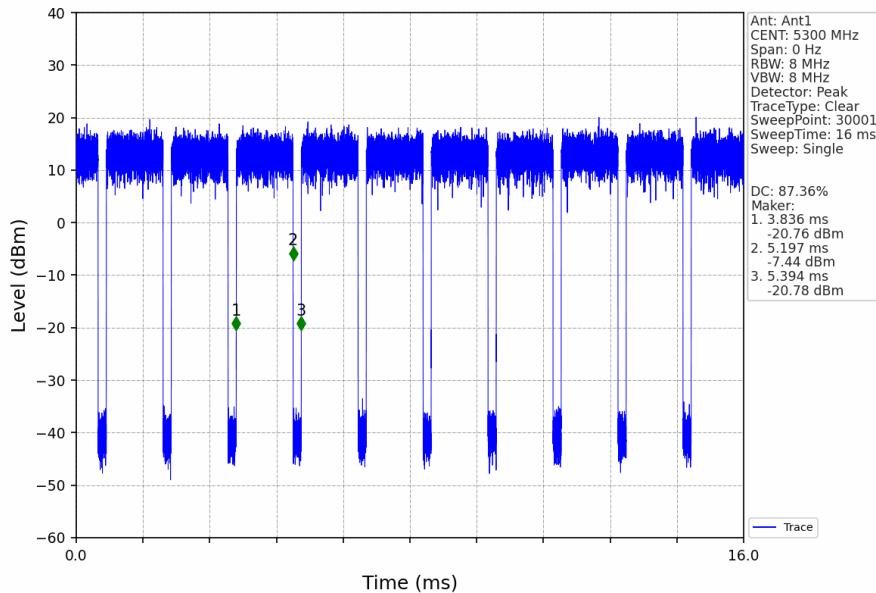
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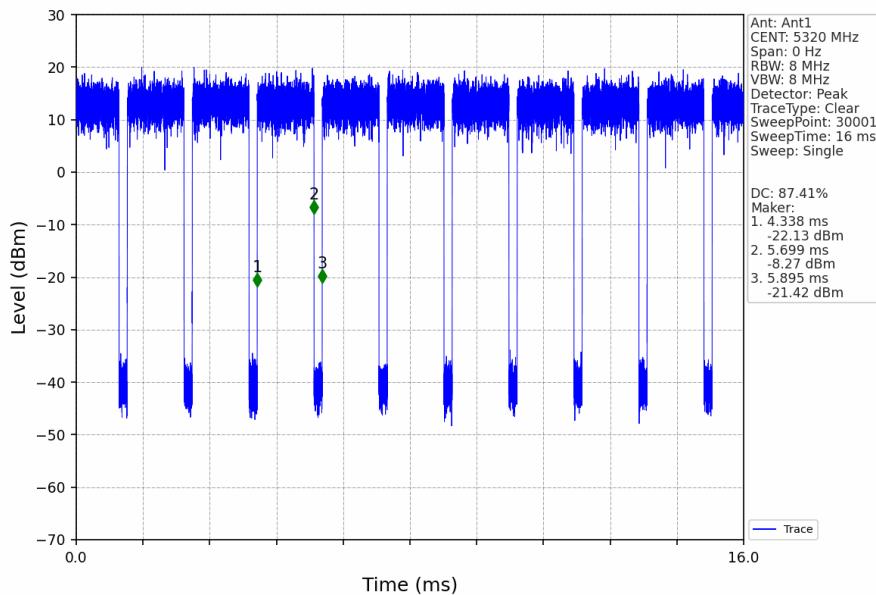
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### 802.11a\_MCH\_5300MHz\_Ant1\_NTNV



### 802.11a\_HCH\_5320MHz\_Ant1\_NTNV



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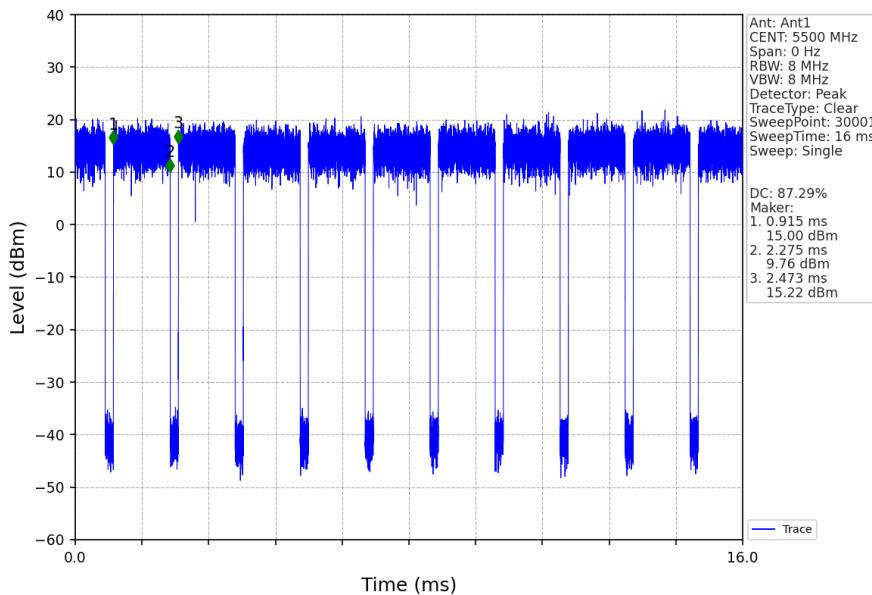
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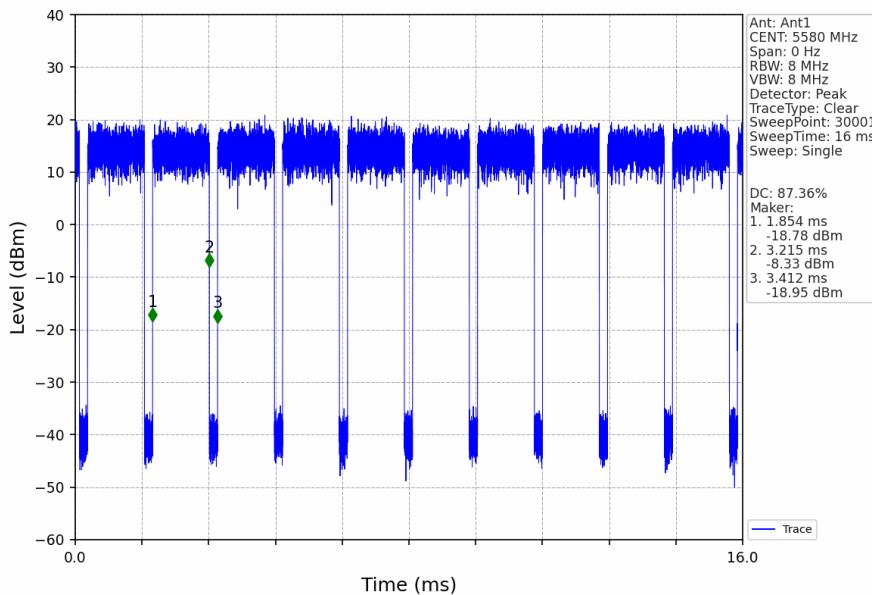
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### 802.11a\_LCH\_5500MHz\_Ant1\_NTNV

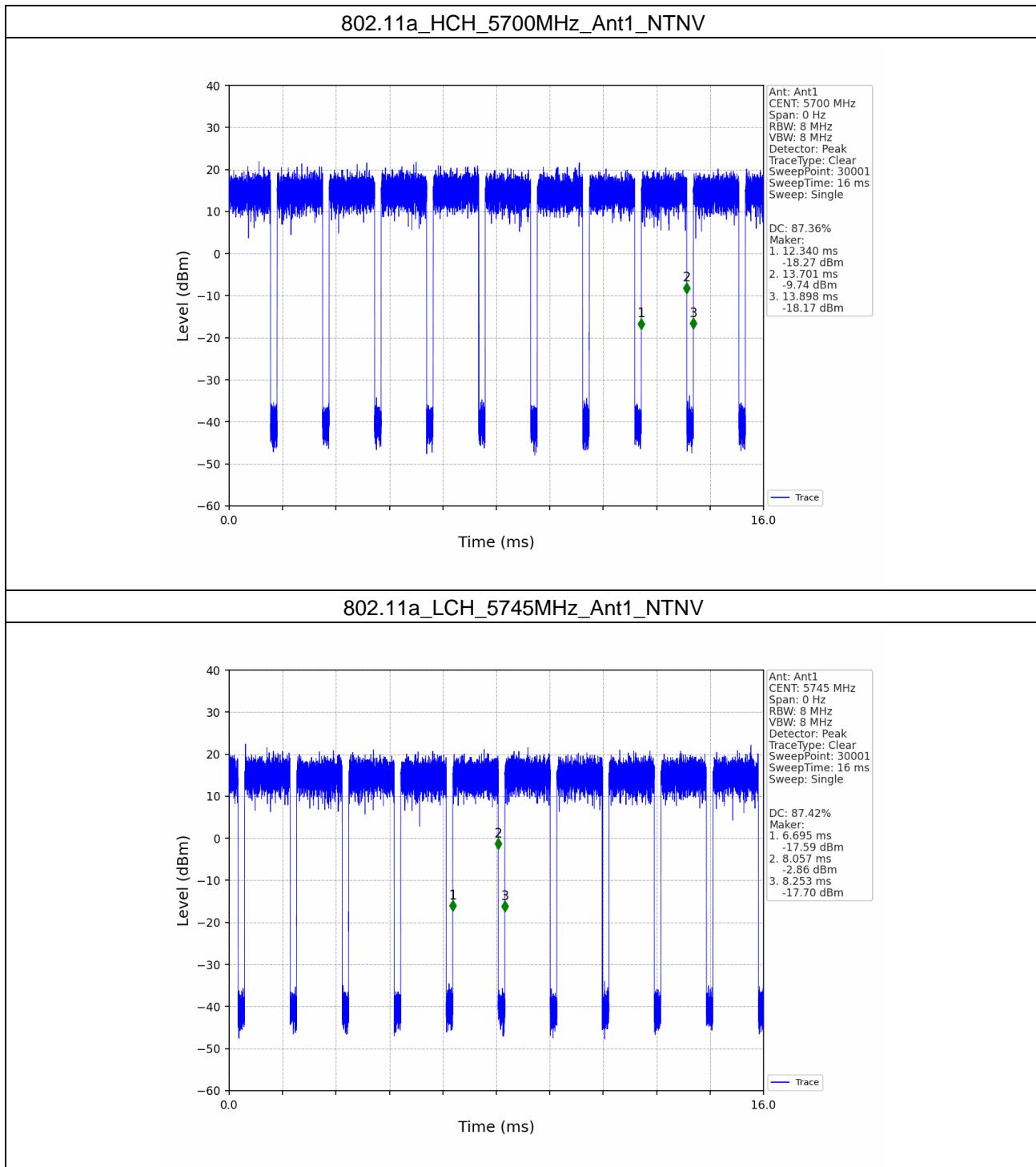


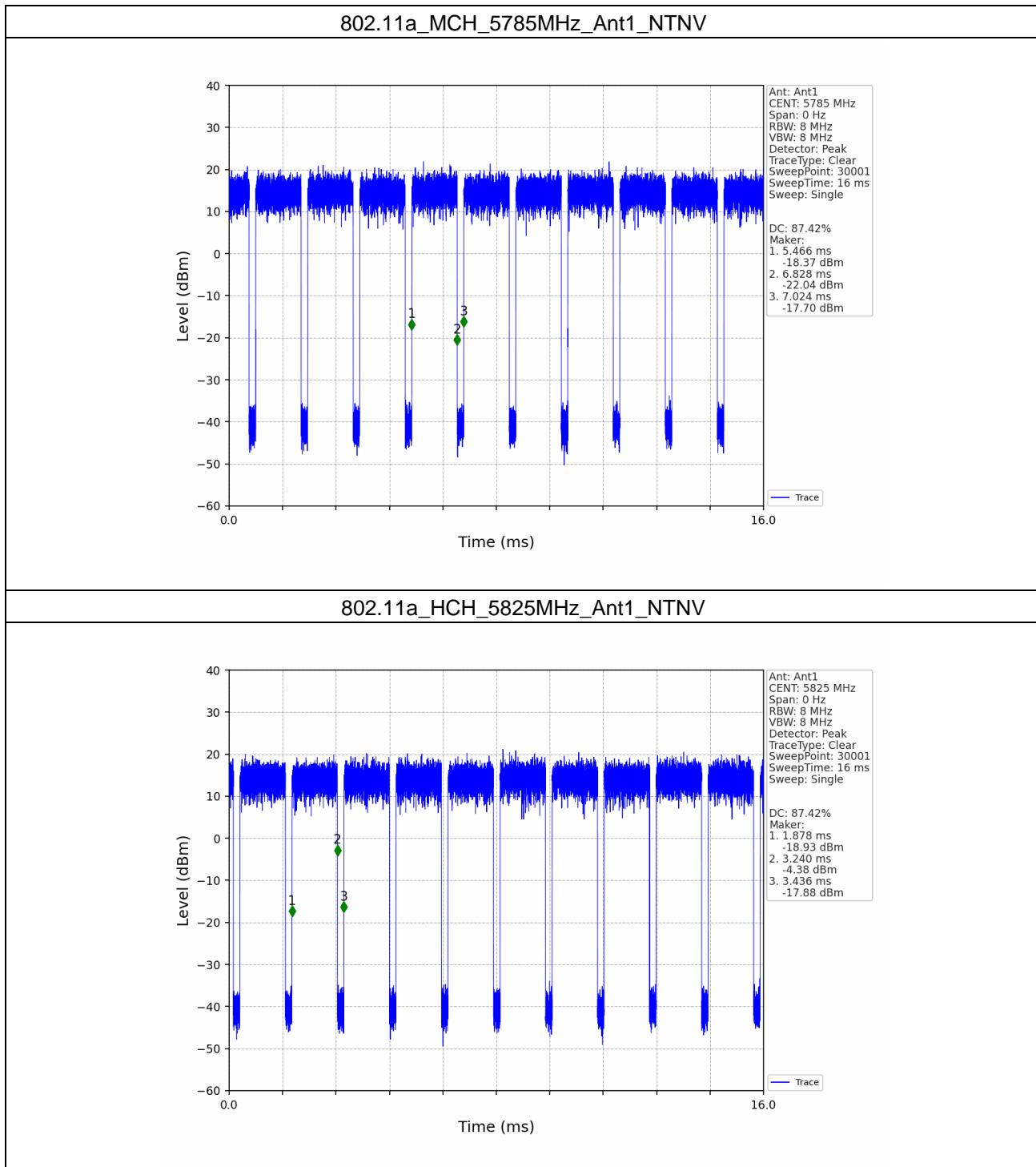
### 802.11a\_MCH\_5580MHz\_Ant1\_NTNV



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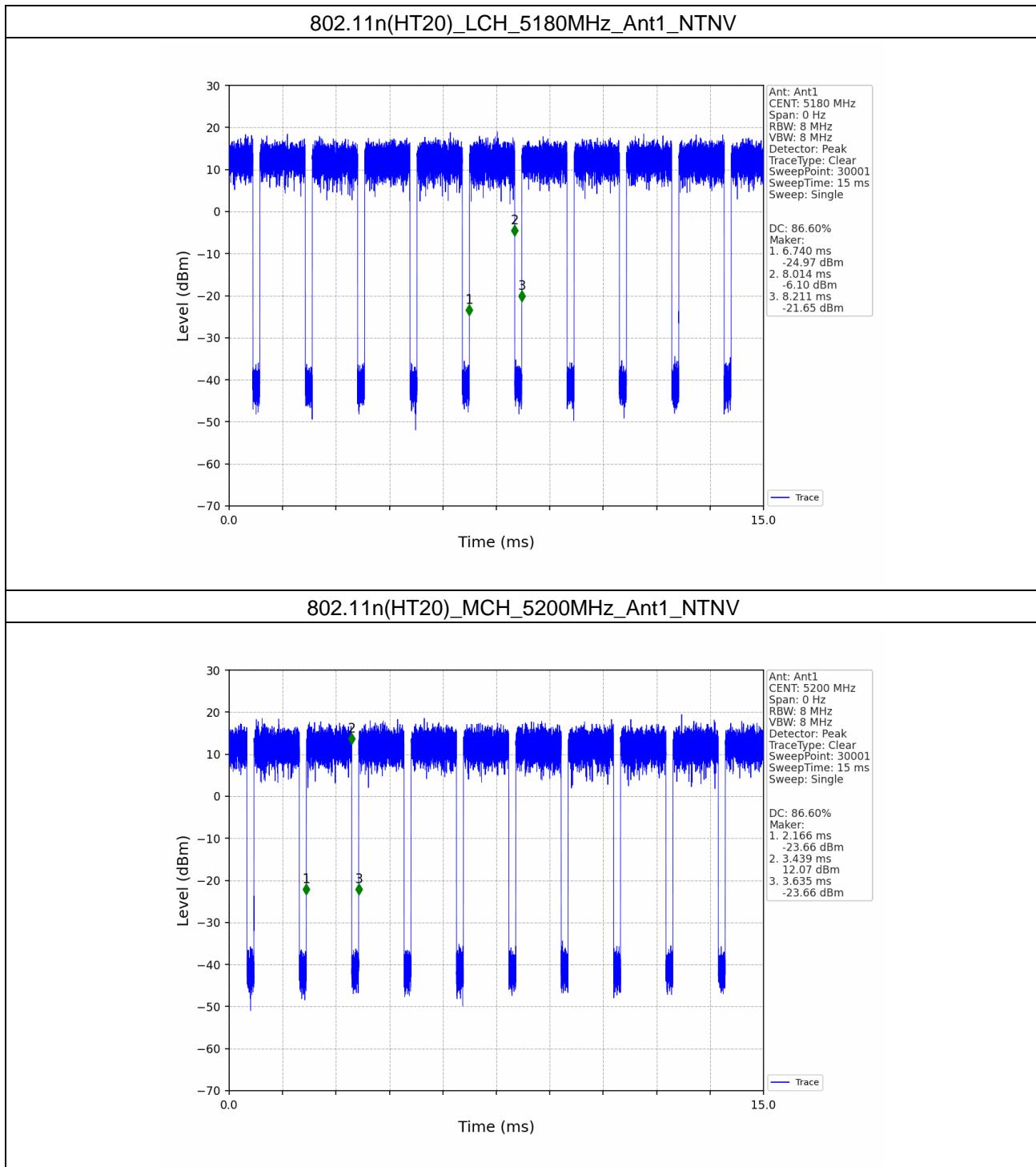
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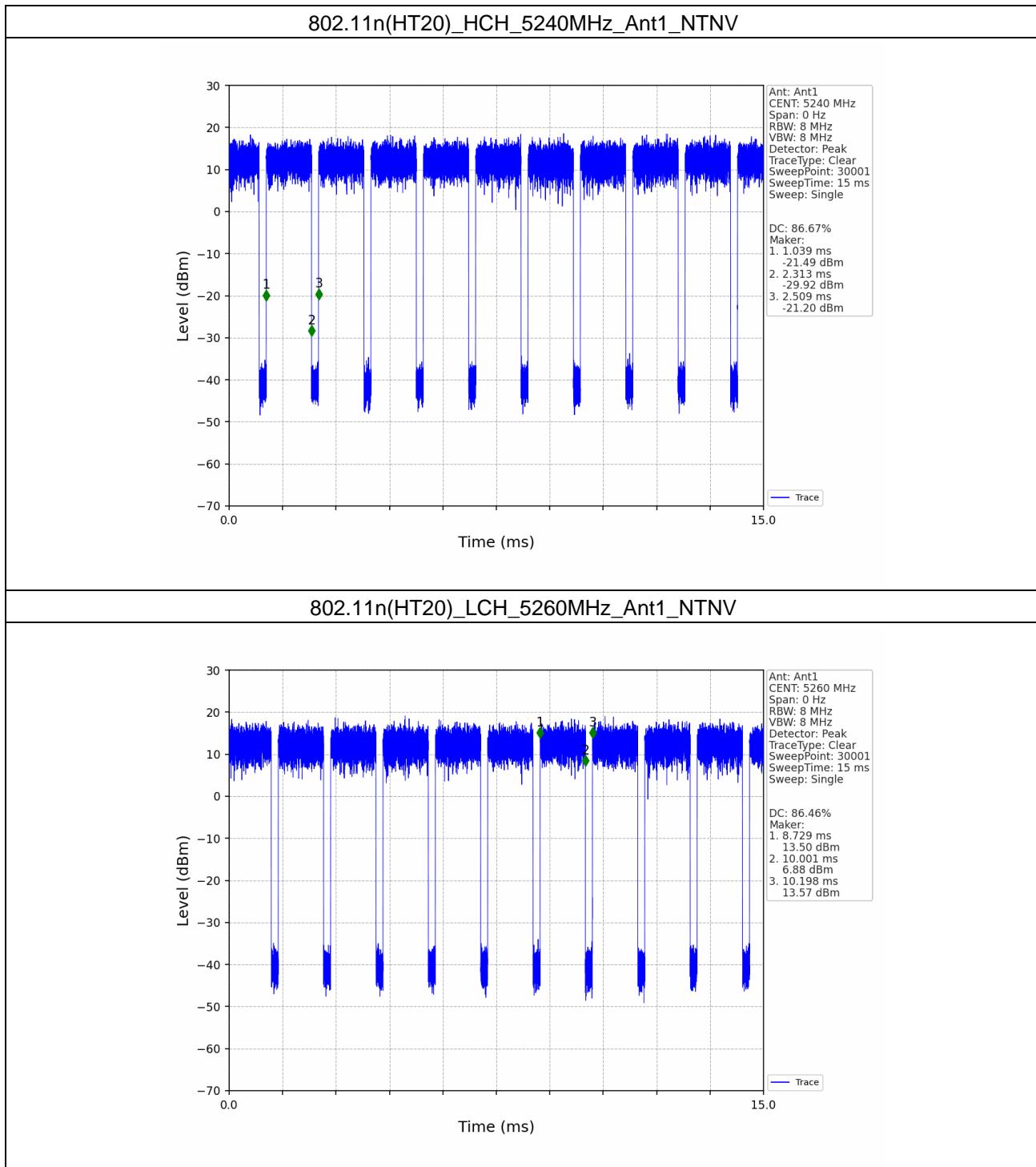
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