

TEST REPORT

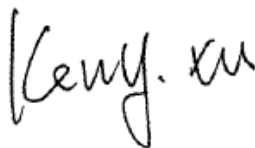
Application No.: SZCR2404001176AT
Applicant: Grab Technology LLC
Address of Applicant: 113 Cherry ST PMB 78120 Seattle, WA 98104 USA
Manufacturer: GrabTaxi Holdings Pte. Ltd.
Address of Manufacturer: 3 Media Cl, Singapore 138498
Factory: SKY LIGHT Electronic (ShenZhen) Limited
Address of Factory: No. 8 & 9 Building, AnTuoShan High-tech Industrial Area, Xinsha Road, ShaJing, Bao'An, Shenzhen, China.

Equipment Under Test (EUT):

EUT Name: KartaDashcam
Model No.: GSP
FCC ID: 2BB5A-GSP
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2024-04-03
Date of Test: 2024-04-12 to 2024-04-28
Date of Issue: 2024-04-29

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



Keny Xu
EMC Laboratory Manager



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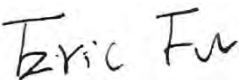
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400117605

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-04-29		Original

Authorized for issue by:				
				
		Leo Lai/Project Engineer		
				
		Eric Fu/Reviewer		



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Duty Cycle	47 CFR Part 15, Subpart E 15.407	KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass
Non-occupancy period		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Move Time		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:	DC 12-24V
Tested Voltage:	DC 12V
Cable Loss (for RF conducted test):	1.5dB
Operation Frequency/Number of channels (20MHz):	U-NII-I: 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-I: 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)
Operation Frequency/Number of channels (80MHz):	U-NII-I: 5210MHz (1 Channel); U-NII-2A: 5290MHz (1 Channels); U-NII-2C: 5530-5610MHz (2 Channels); U-NII-3: 5775MHz (1 Channel)
Operation Frequency/Number of channels (160MHz):	U-NII-2A: 5250MHz (1 Channels); U-NII-2C: 5570MHz (1 Channels)
Modulation Type:	OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM); 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024-QAM)
Channel Spacing:	802.11a/n/ac/ax 20: 20MHz; 802.11n/ac/ax 40: 40MHz; 802.11ac/ax 80: 80MHz; 802.11ac/ax 160: 160MHz
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	PIFA Antenna
Antenna Gain:	ANT1: 2.78dBi, ANT2: 2.78dBi

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4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
DC Source	Zhaoxin	PS-3005D	REF. No.SEM011-10



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Duty Cycle	$\pm 0.37\%$
99% Bandwidth	$\pm 3\%$
26dB Emission bandwidth	$\pm 3\%$
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	$\pm 3\%$
Maximum Conducted output power	$\pm 0.75\text{dB}$
Peak Power spectrum density	$\pm 2.84\text{dB}$
Radiated Emissions (Below 1GHz)	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Emissions (Above 1GHz)	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (below 1GHz); $\pm 4.6\text{dB}$ (above 1GHz);
Frequency Stability	$\pm 7.25 \times 10^{-8}$

Remark:
The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

4.4 Test Location

All tests were performed at:

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No tests were sub-contracted.

4.5 Test Facility

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



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• 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

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

• Innovation, Science and Economic Development Canada

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IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Duty Cycle					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

99% Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18



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26dB Emission bandwidth

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18



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Maximum Conducted output power

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

Peak Power spectrum density

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

Radiated Emissions (Below 1GHz)

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2023-10-19	2024-10-18
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06



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Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14

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	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06

Frequency Stability					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18



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Non-occupancy period					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2024-03-27	2025-03-26
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2024-03-27	2025-03-26
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	2024-03-27	2025-03-26
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-22	2024-03-14	2025-03-13

Channel Move Time					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2024-03-27	2025-03-26
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2024-03-27	2025-03-26
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	2024-03-27	2025-03-26
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-22	2024-03-14	2025-03-13

Channel Closing Transmission Time					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2024-03-27	2025-03-26
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2024-03-27	2025-03-26
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	2024-03-27	2025-03-26
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-22	2024-03-14	2025-03-13



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



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

15.203 requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is ANT1: 2.78dBi, ANT2: 2.78dBi

Antenna location: Refer to internal photos

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.

7 Radio Spectrum Matter Test Results

7.1 Duty Cycle

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 41.4 % RH

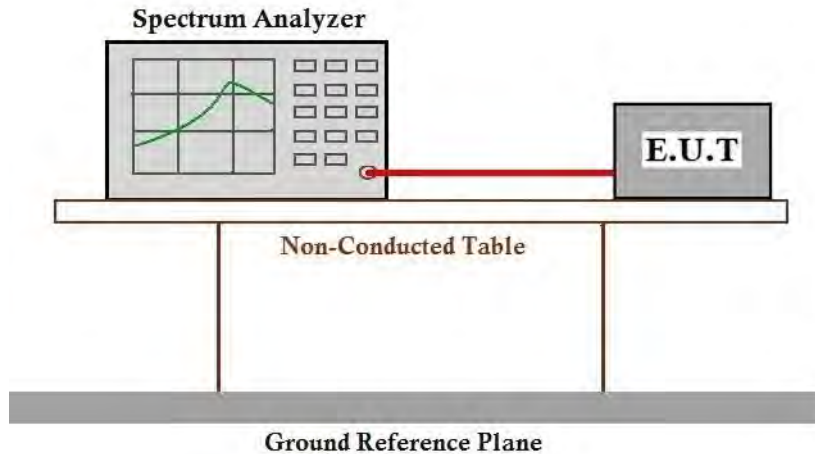
Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	08	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.



7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.2 99% Bandwidth

Test Requirement N/A
Test Method: KDB 789033 II D

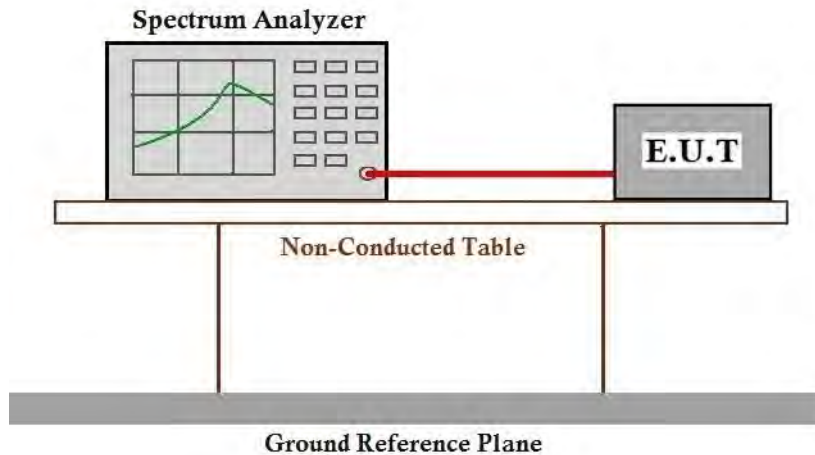
7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 23.5 °C Humidity: 41.4 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	08	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.3 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

7.3.1 E.U.T. Operation

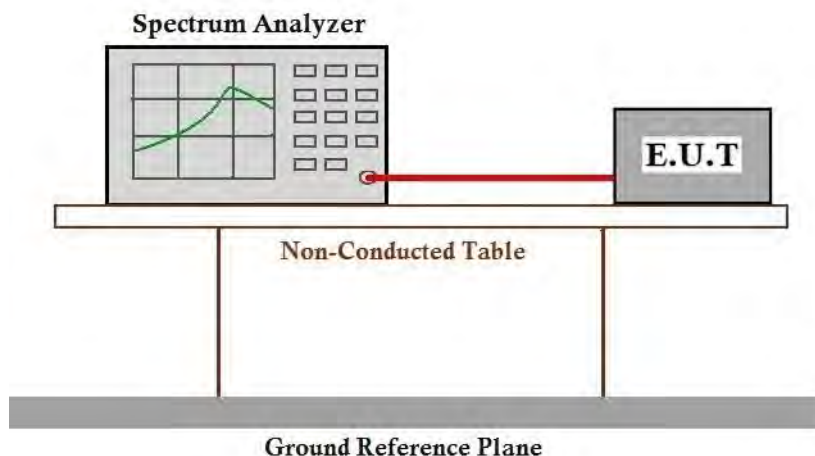
Operating Environment:

Temperature: 23.5 °C Humidity: 41.4 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	08	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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

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

Test Method: KDB 789033 D02 II C 2

Limit:

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

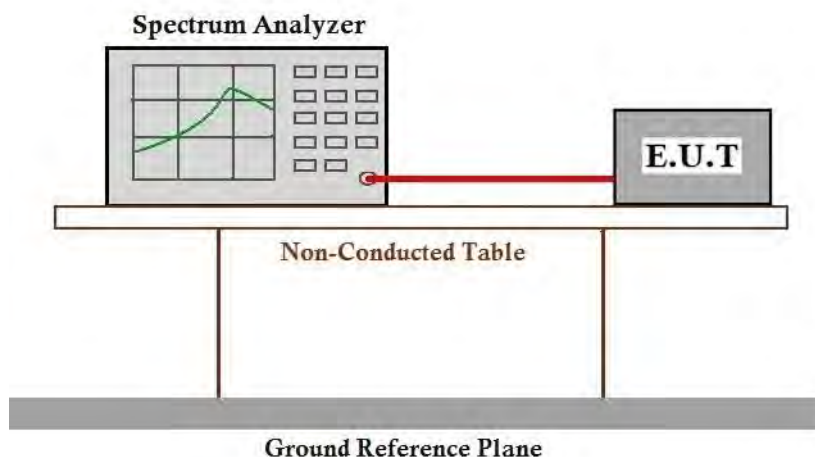
Humidity: 41.4 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.5 Maximum Conducted output power

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

Test Method: KDB 789033 D02 II E

Limit:

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 41.4 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	08	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and



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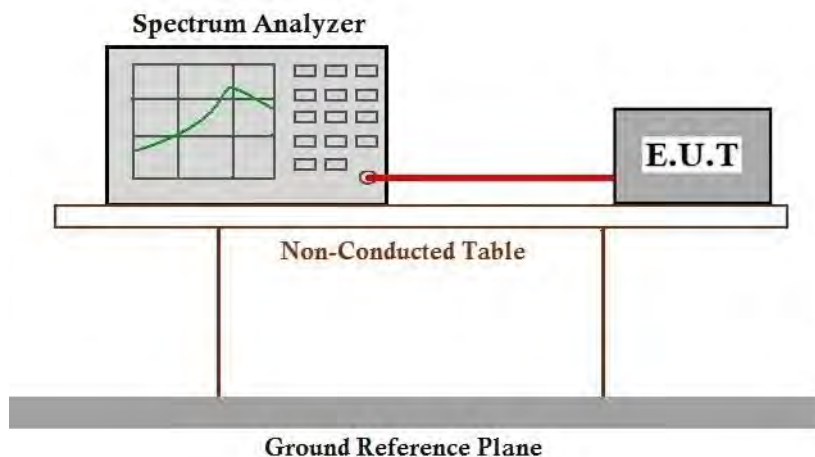
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		found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
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7.5.3 Test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



7.5.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details

7.6 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

Limit:

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 41.4 % RH

Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	08	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.



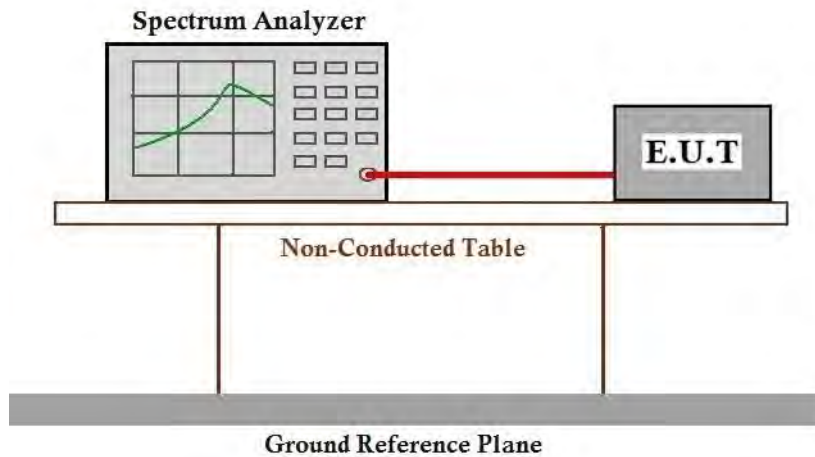
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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.7 Radiated Emissions (Below 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 45.8 % RH

Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	06	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	07	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	08	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.



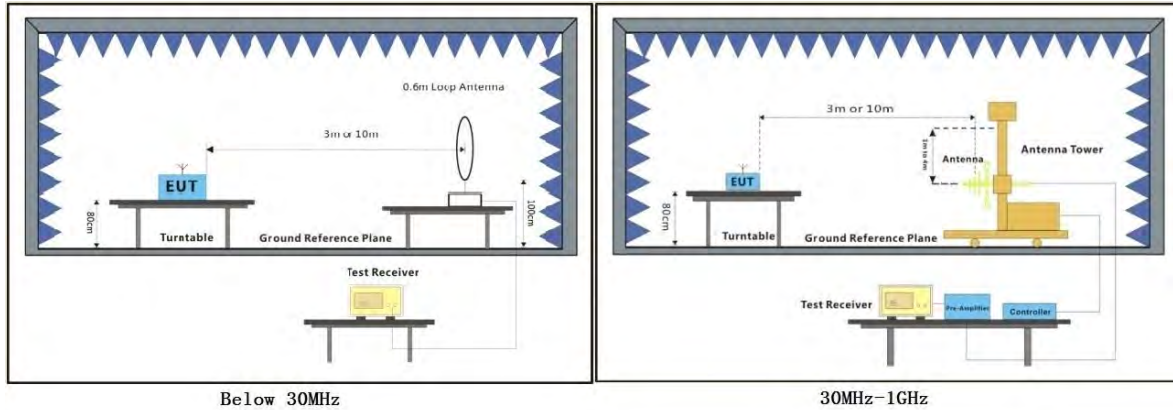
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7.7.3 Test Setup Diagram



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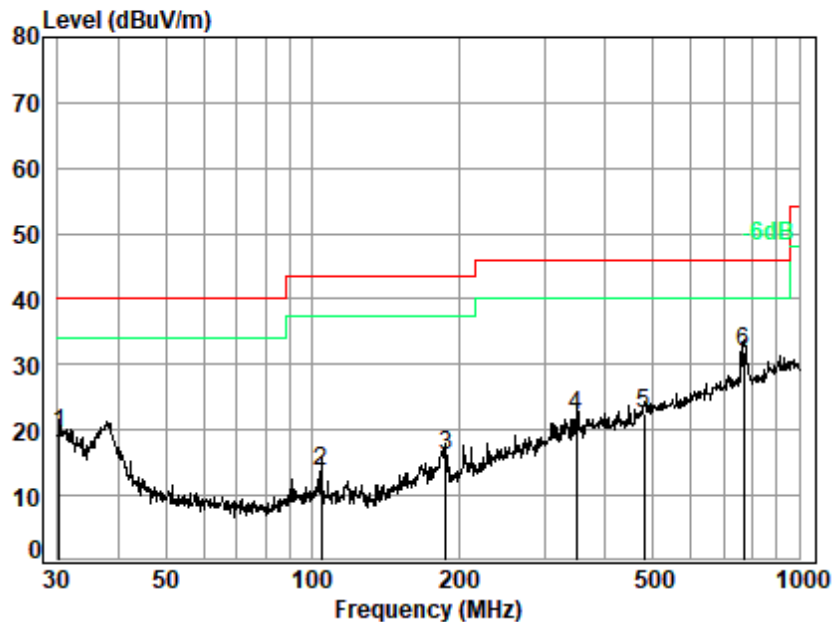
7.7.4 Measurement Procedure and Data

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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

Test Mode: 05; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 01176AT
Test Mode: 05

	Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.21	21.10	0.64	27.80	25.66	19.60	40.00	-20.40 QP
2	104.17	12.22	1.21	27.59	27.99	13.83	43.50	-29.67 QP
3	187.75	14.30	1.66	27.29	27.35	16.02	43.50	-27.48 QP
4	348.03	19.77	2.35	27.10	27.04	22.06	46.00	-23.94 QP
5	480.53	22.75	2.82	27.70	24.52	22.39	46.00	-23.61 QP
6 q	768.75	26.68	3.73	27.71	29.21	31.91	46.00	-14.09 QP



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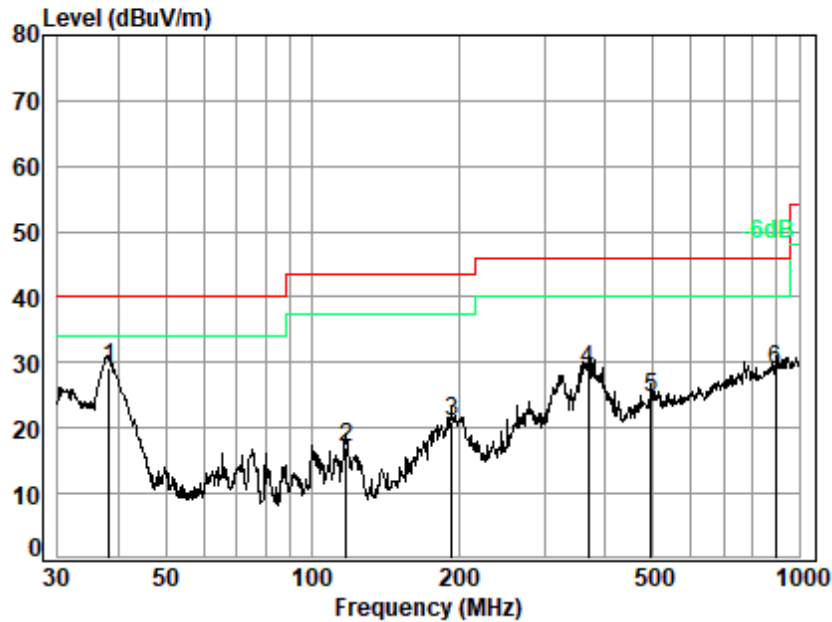
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Test Mode: 05; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 01176AT
Test Mode: 05

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q	38.35	17.13	0.73	27.78	39.01	29.09	40.00	-10.91 QP
2		117.36	11.23	1.28	27.55	32.10	17.06	43.50	-26.44 QP
3		193.09	14.21	1.69	27.27	32.39	21.02	43.50	-22.48 QP
4		369.40	20.41	2.43	27.20	33.33	28.97	46.00	-17.03 QP
5		495.93	22.84	2.88	27.77	26.78	24.73	46.00	-21.27 QP
6		893.86	28.02	4.07	27.16	23.97	28.90	46.00	-17.10 QP



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7.8 Radiated Emissions (Above 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3
*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (4) For transmitters operating in the 5.725-5.85 GHz band: (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.		

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7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.4 °C

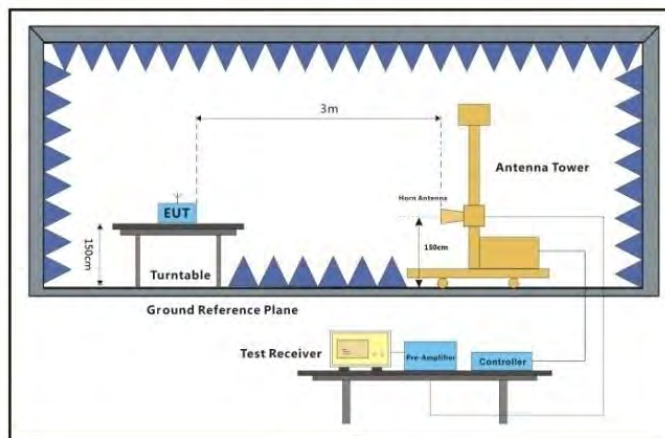
Humidity: 50.8 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	08	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



Above 1GHz



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7.8.4 Measurement Procedure and Data

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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



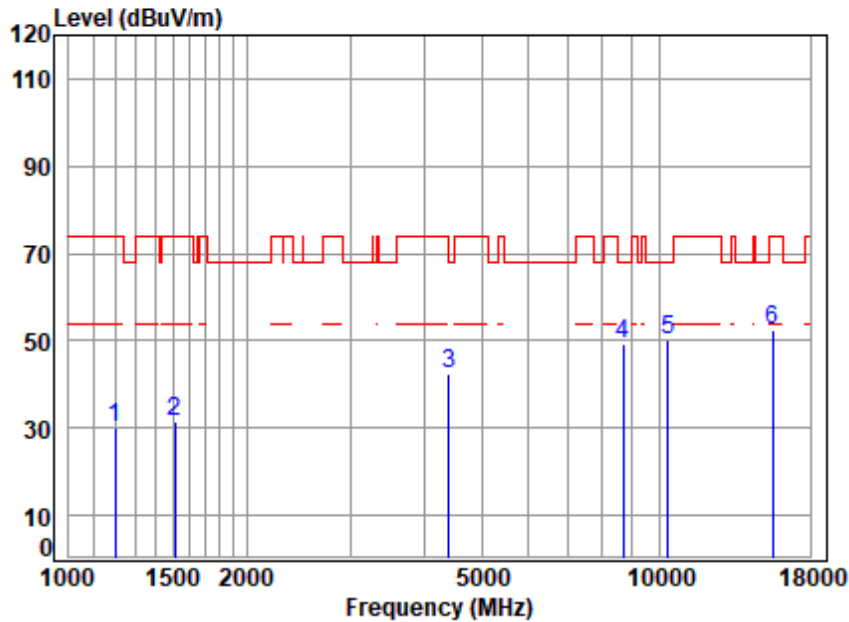
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

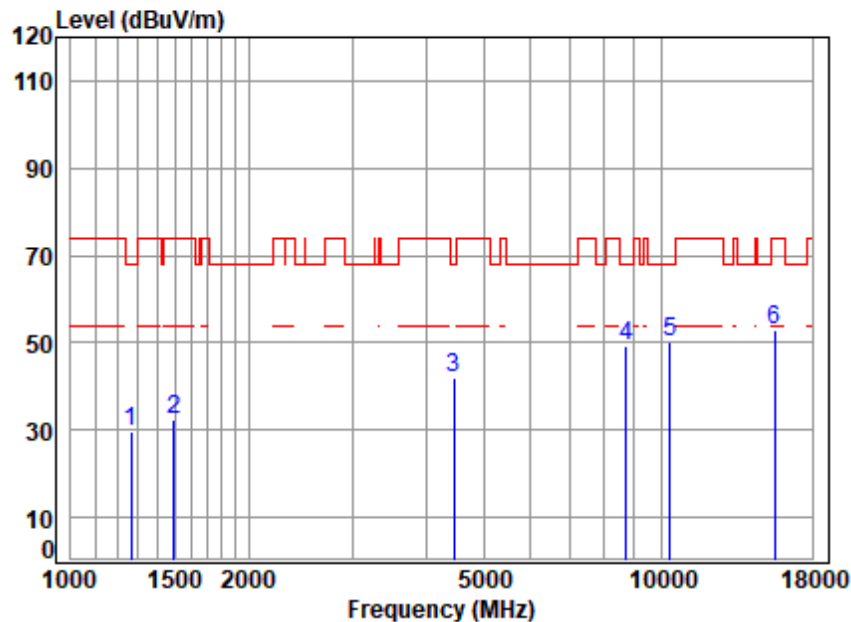


Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5180 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.726	3.58	24.40	38.34	40.40	30.04	74.00	-43.96	peak
2	1511.833	4.08	26.85	38.39	39.08	31.62	74.00	-42.38	peak
3	4405.090	7.06	34.74	35.79	36.42	42.43	68.20	-25.77	peak
4	8688.480	11.38	36.90	37.30	38.51	49.49	68.20	-18.71	peak
5	10360.000	12.73	37.10	37.54	38.03	50.32	68.20	-17.88	peak
6	15540.000	14.23	41.10	37.23	34.41	52.51	74.00	-21.49	peak



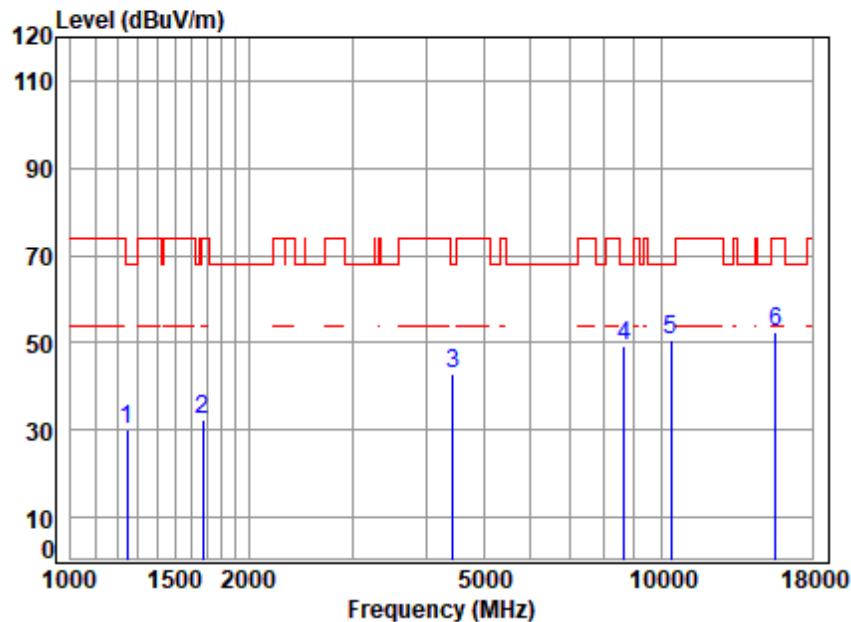
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Site : chamber
 Condition: 3m VERTICAL
 Job No : 01176AT
 Mode : 5180 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1267.454	3.70	25.00	38.35	39.42	29.77	68.20	-38.43	peak
2	1494.455	4.05	26.64	38.39	40.07	32.37	74.00	-41.63	peak
3	4456.315	7.09	34.12	35.76	36.59	42.04	68.20	-26.16	peak
4	8713.630	11.42	36.90	37.32	38.47	49.47	68.20	-18.73	peak
5	10360.000	12.73	37.10	37.54	38.06	50.35	68.20	-17.85	peak
6	15540.000	14.23	41.10	37.23	34.79	52.89	74.00	-21.11	peak

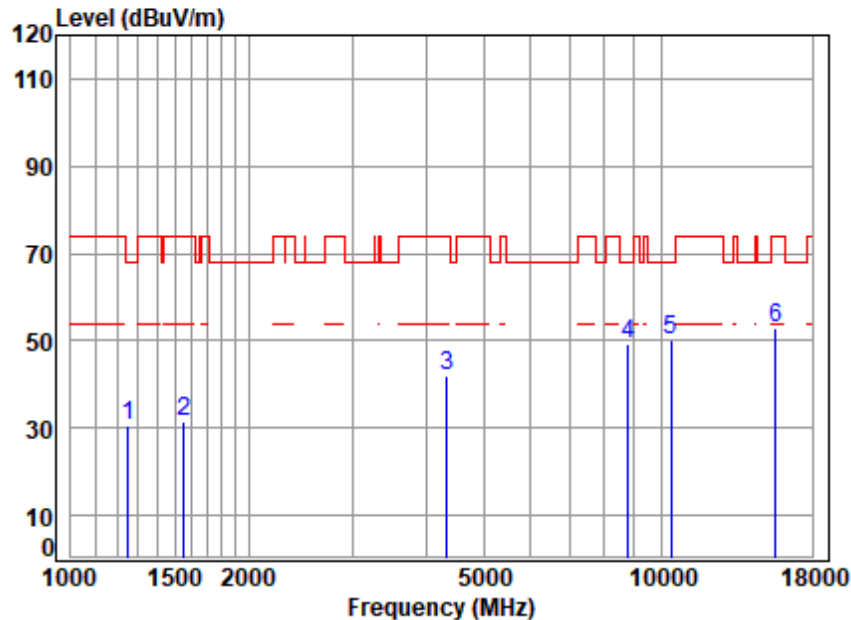
Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5200 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	3.66	25.04	38.35	39.98	30.33	68.20	-37.87	peak
2	1672.779	4.30	26.25	38.41	40.20	32.34	74.00	-41.66	peak
3	4430.628	7.08	34.43	35.77	37.16	42.90	68.20	-25.30	peak
4	8663.404	11.33	36.90	37.27	38.44	49.40	68.20	-18.80	peak
5	10400.000	12.74	37.10	37.56	38.15	50.43	68.20	-17.77	peak
6	15600.000	14.25	41.10	37.26	34.36	52.45	74.00	-21.55	peak

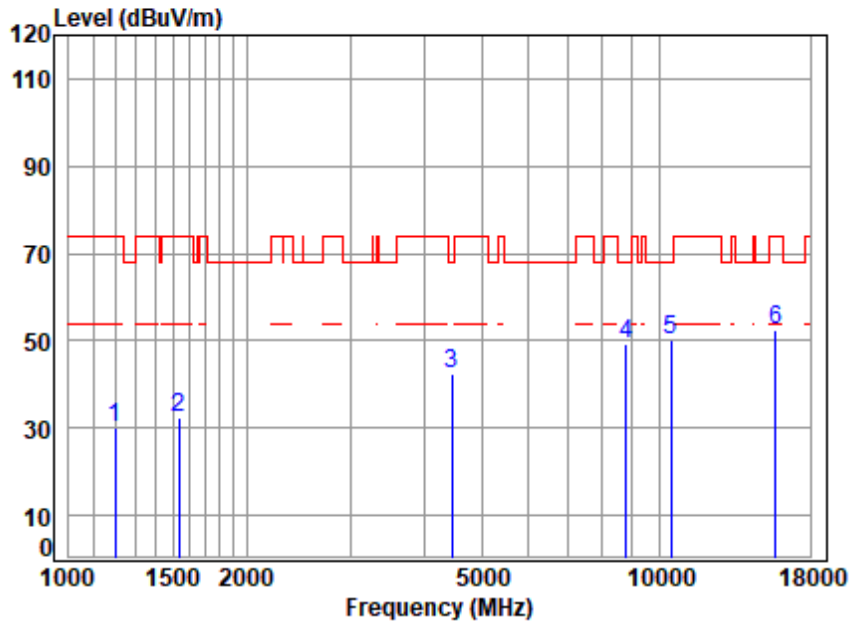
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Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5200 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.67	25.09	38.35	39.99	30.40	68.20	-37.80	peak
2	1556.169	4.14	26.98	38.40	38.96	31.68	74.00	-42.32	peak
3	4329.354	7.01	34.23	35.85	36.77	42.16	74.00	-31.84	peak
4	8789.516	11.55	37.06	37.40	38.15	49.36	68.20	-18.84	peak
5	10400.000	12.74	37.10	37.56	38.10	50.38	68.20	-17.82	peak
6	15600.000	14.25	41.10	37.26	34.79	52.88	74.00	-21.12	peak

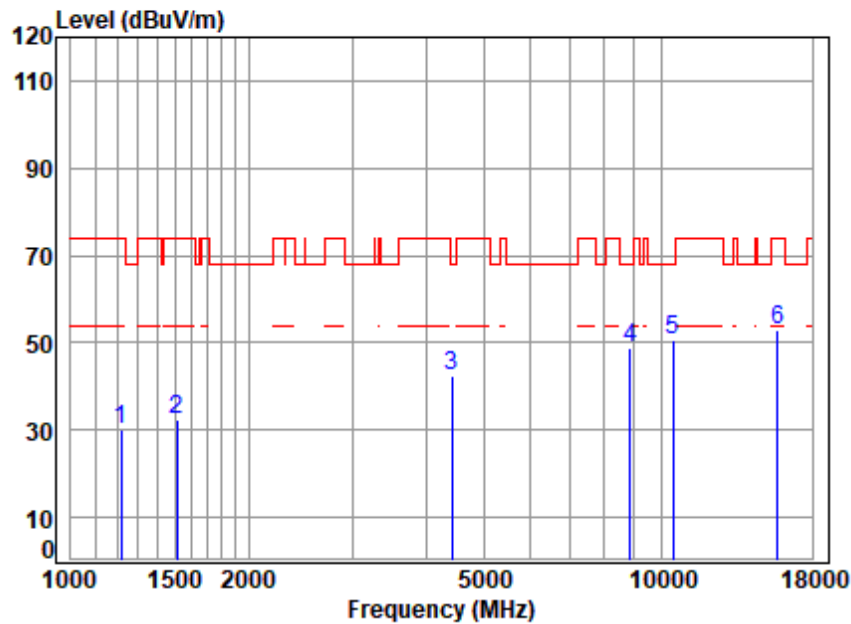
Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01176AT
 Mode : 5240 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	3.58	24.36	38.34	40.56	30.16	74.00	-43.84	peak
2	1533.841	4.11	26.94	38.39	39.57	32.23	74.00	-41.77	peak
3	4456.315	7.09	34.12	35.76	36.84	42.29	68.20	-25.91	peak
4	8789.516	11.55	37.06	37.40	38.07	49.28	68.20	-18.92	peak
5	10480.000	12.76	37.26	37.60	37.91	50.33	68.20	-17.87	peak
6	15720.000	14.29	41.22	37.31	34.26	52.46	74.00	-21.54	peak

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

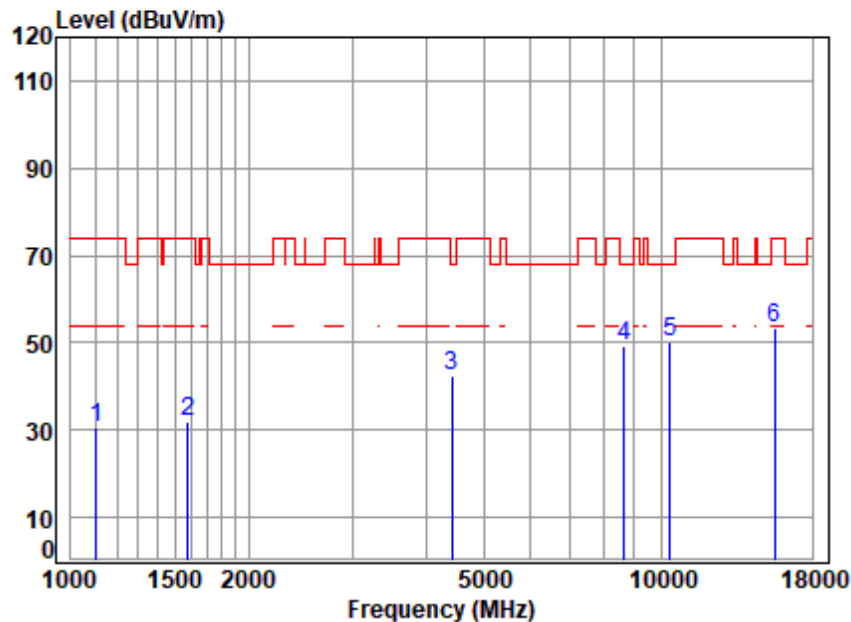


Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5240 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1217.190	3.61	24.64	38.34	40.26	30.17	74.00	-43.83	peak
2	1511.833	4.08	26.85	38.39	39.78	32.32	74.00	-41.68	peak
3	4417.841	7.07	34.59	35.78	36.75	42.63	68.20	-25.57	peak
4	8840.473	11.64	37.18	37.45	37.51	48.88	68.20	-19.32	peak
5	10480.000	12.76	37.26	37.60	38.08	50.50	68.20	-17.70	peak
6	15720.000	14.29	41.22	37.31	34.76	52.96	74.00	-21.04	peak



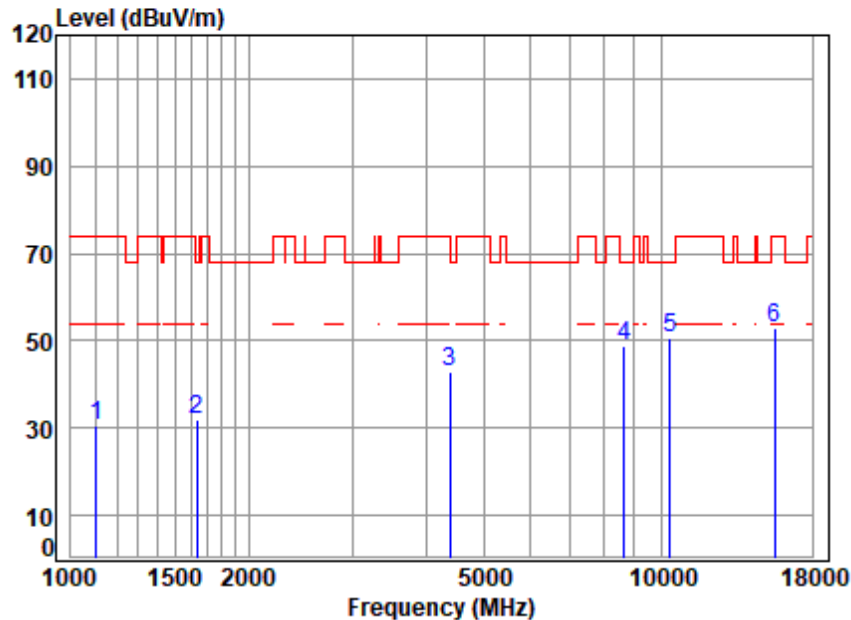
Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5180 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1103.264	3.40	23.71	38.32	41.61	30.40	74.00	-43.60	peak
2	1578.822	4.17	26.88	38.40	39.17	31.82	74.00	-42.18	peak
3	4417.841	7.07	34.59	35.78	36.62	42.50	68.20	-25.70	peak
4	8663.404	11.33	36.90	37.27	38.31	49.27	68.20	-18.93	peak
5	10360.000	12.73	37.10	37.54	38.00	50.29	68.20	-17.91	peak
6	15540.000	14.23	41.10	37.23	35.34	53.44	74.00	-20.56	peak

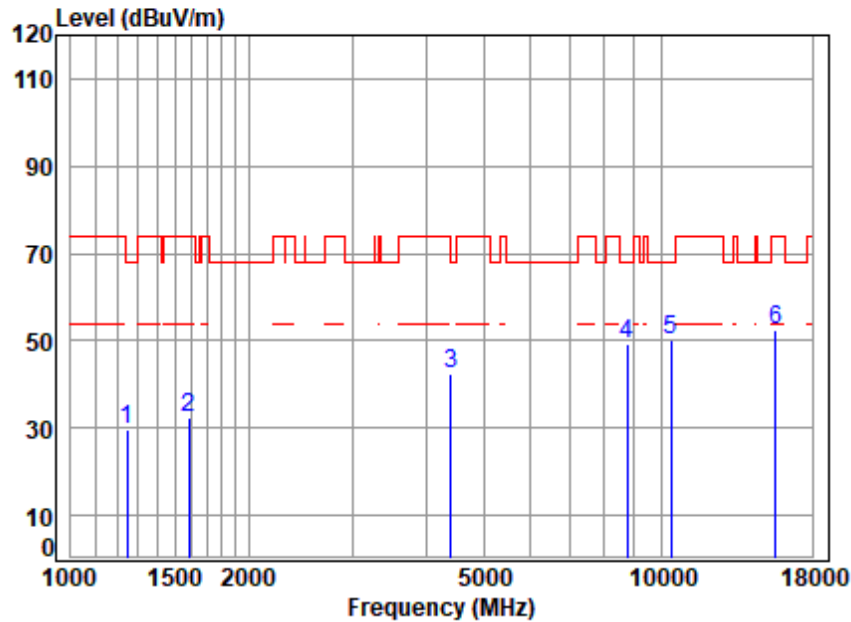
Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5180 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1106.457	3.41	23.73	38.32	41.76	30.58	74.00	-43.42	peak
2	1634.543	4.25	26.45	38.41	39.57	31.86	68.20	-36.34	peak
3	4379.699	7.04	34.64	35.81	37.04	42.91	74.00	-31.09	peak
4	8663.404	11.33	36.90	37.27	38.04	49.00	68.20	-19.20	peak
5	10360.000	12.73	37.10	37.54	38.19	50.48	68.20	-17.72	peak
6	15540.000	14.23	41.10	37.23	34.83	52.93	74.00	-21.07	peak

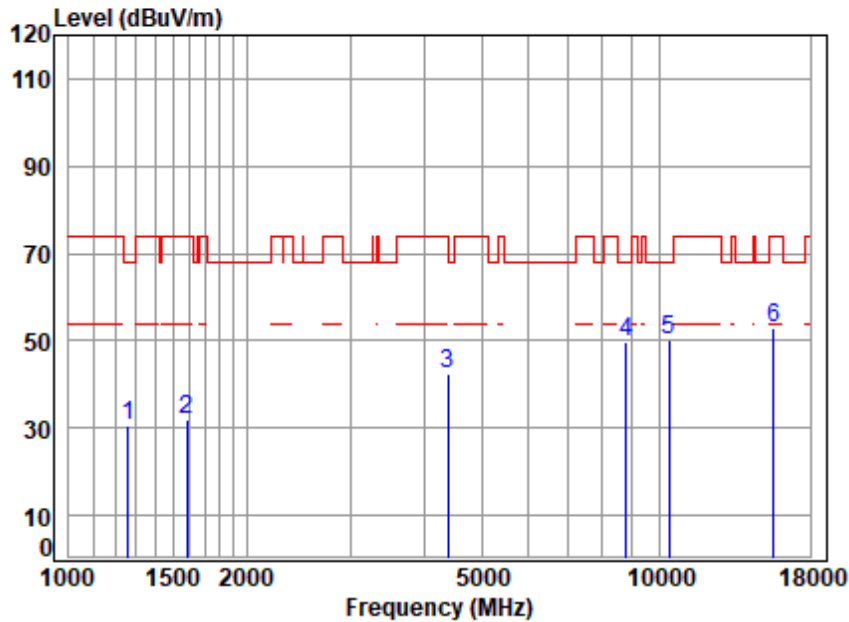
Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01176AT
 Mode : 5200 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	3.66	25.04	38.35	39.49	29.84	68.20	-38.36	peak
2	1587.975	4.18	26.85	38.40	39.64	32.27	74.00	-41.73	peak
3	4405.090	7.06	34.74	35.79	36.51	42.52	68.20	-25.68	peak
4	8738.852	11.47	36.90	37.35	38.18	49.20	68.20	-19.00	peak
5	10400.000	12.74	37.10	37.56	37.91	50.19	68.20	-18.01	peak
6	15600.000	14.25	41.10	37.26	34.31	52.40	74.00	-21.60	peak

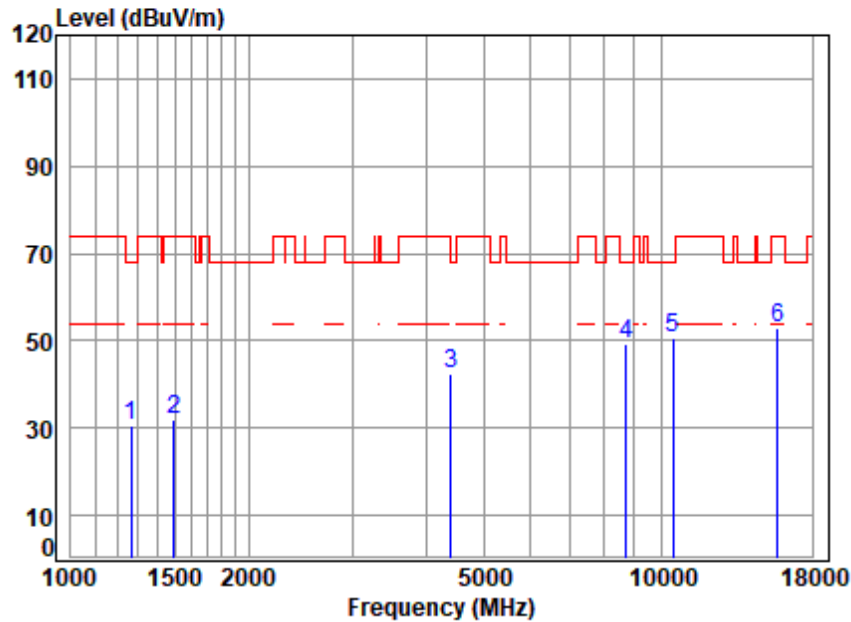
Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5200 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	3.69	25.04	38.35	40.11	30.49	68.20	-37.71	peak
2	1583.392	4.18	26.87	38.40	39.35	32.00	74.00	-42.00	peak
3	4379.699	7.04	34.64	35.81	36.74	42.61	74.00	-31.39	peak
4	8789.516	11.55	37.06	37.40	38.65	49.86	68.20	-18.34	peak
5	10400.000	12.74	37.10	37.56	38.08	50.36	68.20	-17.84	peak
6	15600.000	14.25	41.10	37.26	34.94	53.03	74.00	-20.97	peak

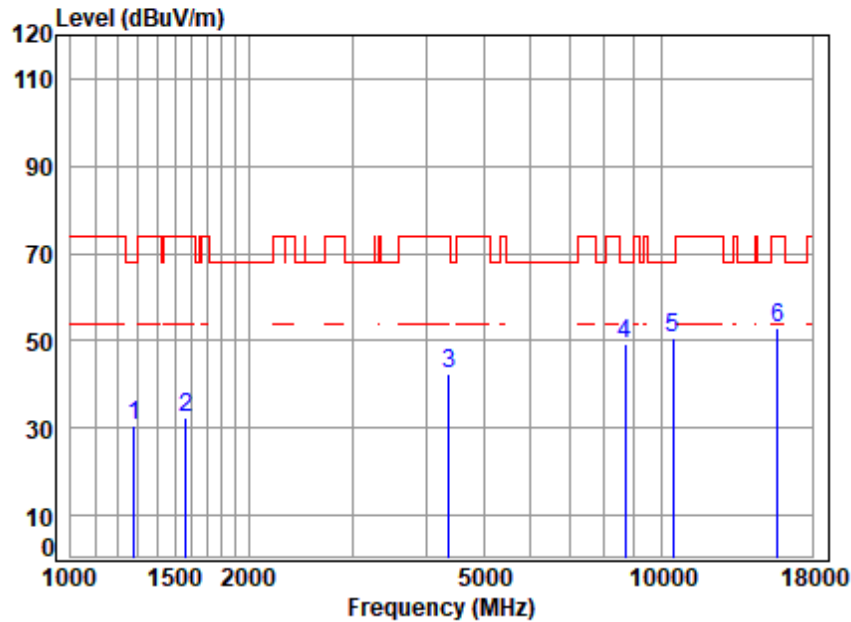
Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01176AT
 Mode : 5240 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1267.454	3.70	25.00	38.35	40.07	30.42	68.20	-37.78	peak
2	1494.455	4.05	26.64	38.39	39.49	31.79	74.00	-42.21	peak
3	4405.090	7.06	34.74	35.79	36.23	42.24	68.20	-25.96	peak
4	8713.630	11.42	36.90	37.32	38.50	49.50	68.20	-18.70	peak
5	10480.000	12.76	37.26	37.60	38.04	50.46	68.20	-17.74	peak
6	15720.000	14.29	41.22	37.31	34.92	53.12	74.00	-20.88	peak

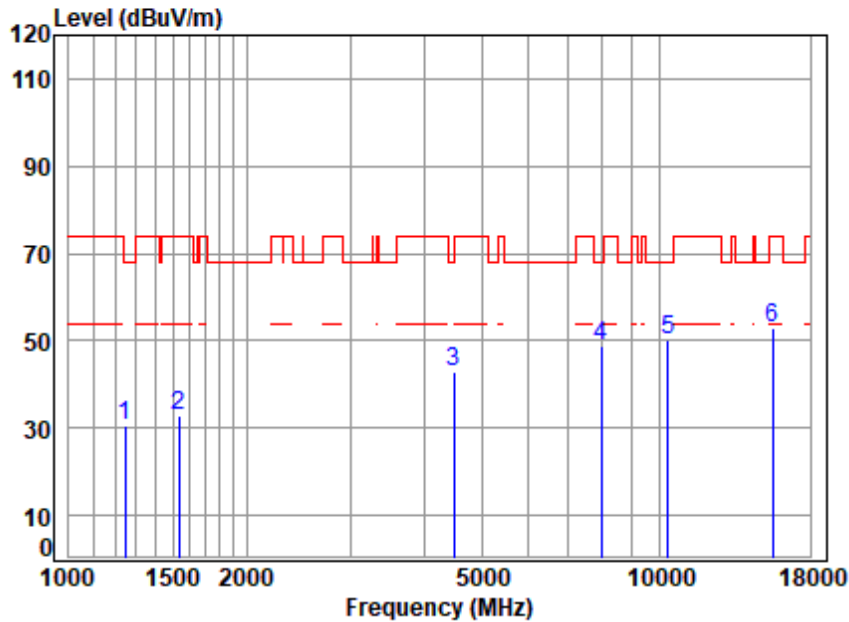
Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5240 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	3.72	24.91	38.35	40.28	30.56	68.20	-37.64	peak
2	1565.191	4.15	26.94	38.40	39.77	32.46	74.00	-41.54	peak
3	4367.058	7.04	34.54	35.82	36.45	42.21	74.00	-31.79	peak
4	8688.480	11.38	36.90	37.30	38.43	49.41	68.20	-18.79	peak
5	10480.000	12.76	37.26	37.60	38.15	50.57	68.20	-17.63	peak
6	15720.000	14.29	41.22	37.31	34.93	53.13	74.00	-20.87	peak

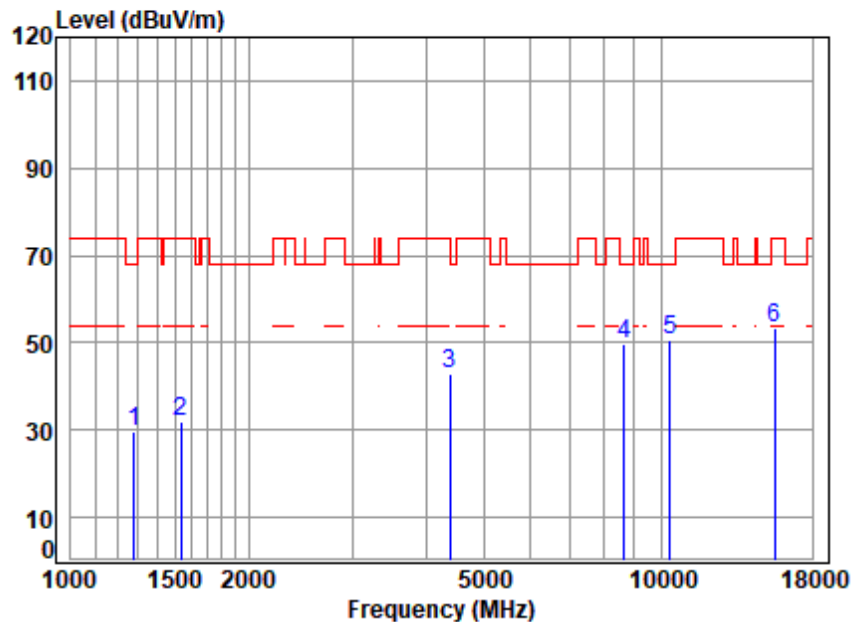
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5180 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	3.66	25.04	38.35	40.28	30.63	68.20	-37.57	peak
2	1538.281	4.12	26.95	38.39	40.18	32.86	74.00	-41.14	peak
3	4495.125	7.12	33.66	35.73	37.65	42.70	68.20	-25.50	peak
4	7989.893	10.09	36.40	36.55	39.00	48.94	68.20	-19.26	peak
5	10360.000	12.73	37.10	37.54	38.13	50.42	68.20	-17.78	peak
6	15540.000	14.23	41.10	37.23	34.79	52.89	74.00	-21.11	peak

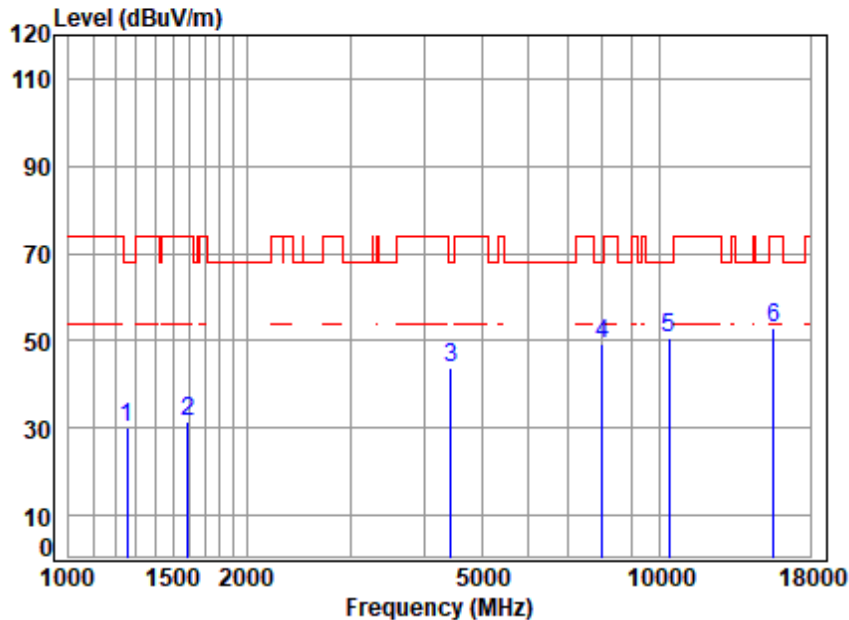
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5180 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	3.72	24.91	38.35	39.58	29.86	68.20	-38.34	peak
2	1538.281	4.12	26.95	38.39	39.22	31.90	74.00	-42.10	peak
3	4392.376	7.05	34.74	35.80	36.83	42.82	74.00	-31.18	peak
4	8663.404	11.33	36.90	37.27	38.58	49.54	68.20	-18.66	peak
5	10360.000	12.73	37.10	37.54	38.20	50.49	68.20	-17.71	peak
6	15540.000	14.23	41.10	37.23	35.19	53.29	74.00	-20.71	peak

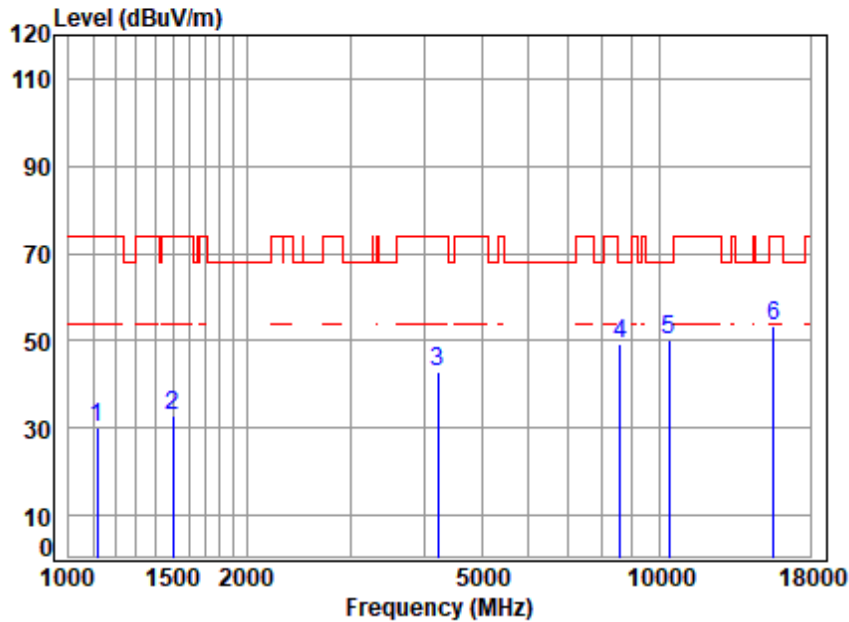
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01176AT
 Mode : 5200 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	3.68	25.06	38.35	39.87	30.26	68.20	-37.94	peak
2	1592.571	4.19	26.83	38.40	38.97	31.59	74.00	-42.41	peak
3	4430.628	7.08	34.43	35.77	37.90	43.64	68.20	-24.56	peak
4	8013.020	10.13	36.40	36.57	39.17	49.13	68.20	-19.07	peak
5	10400.000	12.74	37.10	37.56	38.15	50.43	68.20	-17.77	peak
6	15600.000	14.25	41.10	37.26	34.94	53.03	74.00	-20.97	peak

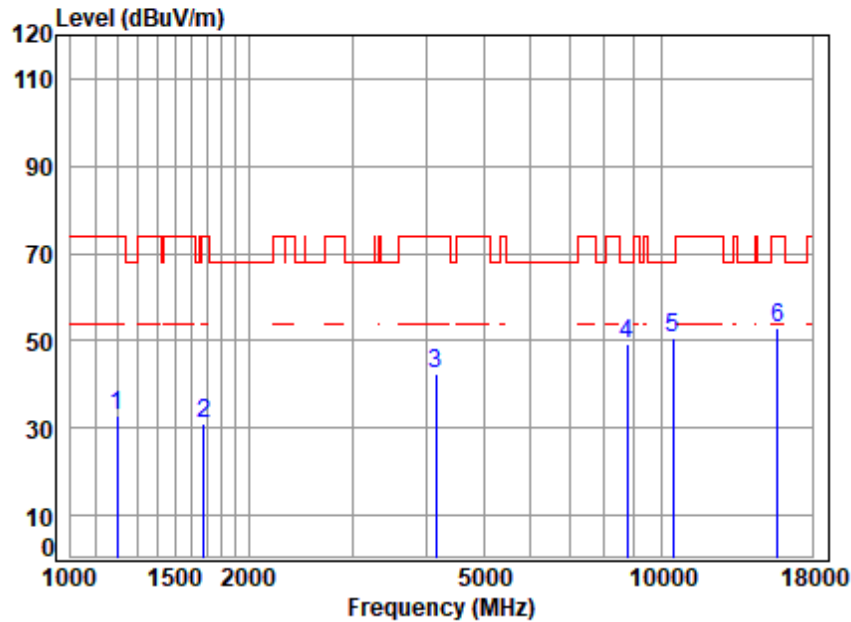
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01176AT
 Mode : 5200 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1116.093	3.43	23.76	38.32	41.35	30.22	74.00	-43.78	peak
2	1503.119	4.07	26.81	38.39	40.48	32.97	74.00	-41.03	peak
3	4218.186	6.93	33.80	35.93	37.99	42.79	74.00	-31.21	peak
4	8588.607	11.20	36.88	37.19	38.23	49.12	68.20	-19.08	peak
5	10400.000	12.74	37.10	37.56	37.90	50.18	68.20	-18.02	peak
6	15600.000	14.25	41.10	37.26	35.07	53.16	74.00	-20.84	peak

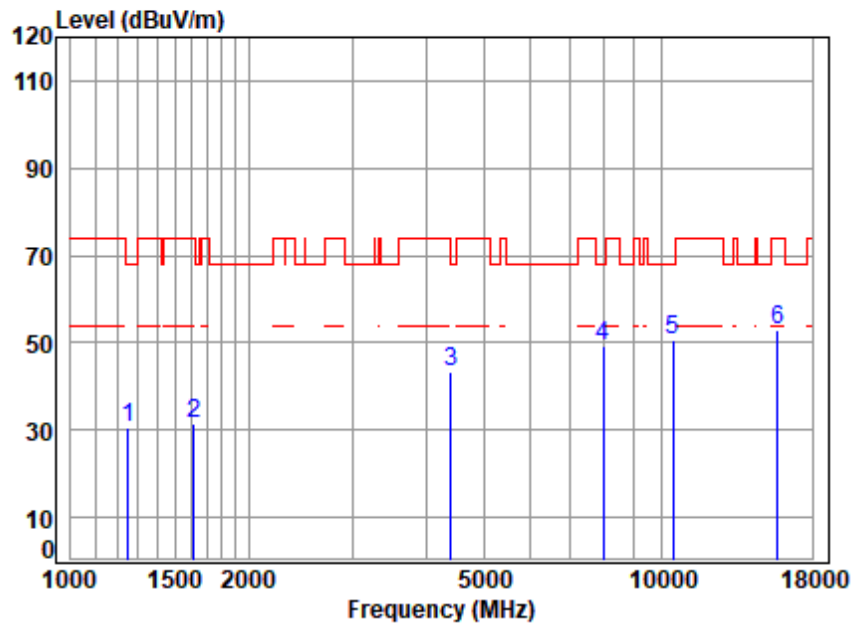
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5240 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	3.58	24.36	38.34	43.11	32.71	74.00	-41.29	peak
2	1682.477	4.31	26.24	38.41	39.03	31.17	74.00	-42.83	peak
3	4157.664	6.89	33.80	35.98	37.65	42.36	74.00	-31.64	peak
4	8764.146	11.51	36.96	37.37	38.06	49.16	68.20	-19.04	peak
5	10480.000	12.76	37.26	37.60	38.28	50.70	68.20	-17.50	peak
6	15720.000	14.29	41.22	37.31	34.68	52.88	74.00	-21.12	peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5240 TX RSE
Note : 5G WIFI 11AC20

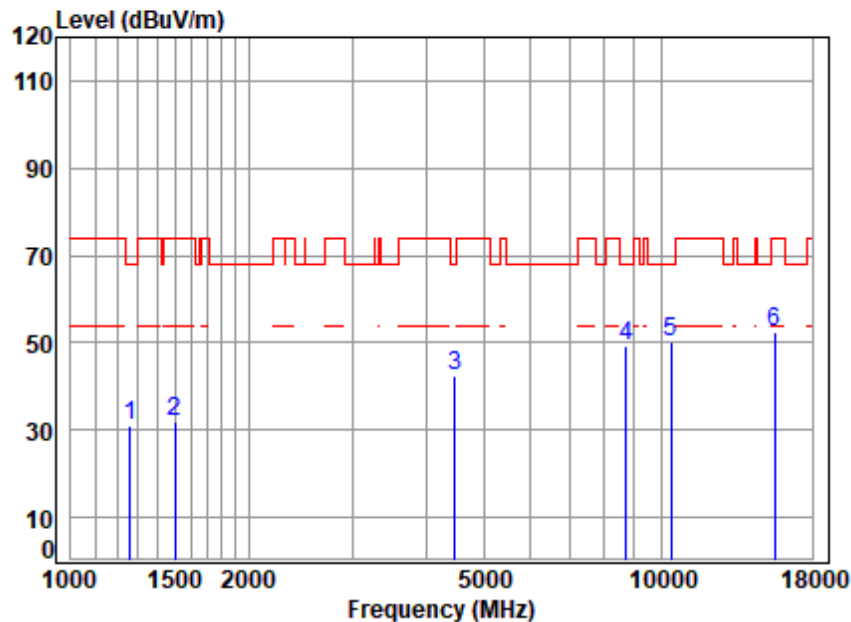
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.67	25.08	38.35	40.03	30.43	68.20	-37.77	peak
2	1615.754	4.22	26.64	38.40	39.09	31.55	74.00	-42.45	peak
3	4405.090	7.06	34.74	35.79	37.54	43.55	68.20	-24.65	peak
4	7989.893	10.09	36.40	36.55	39.48	49.42	68.20	-18.78	peak
5	10480.000	12.76	37.26	37.60	38.21	50.63	68.20	-17.57	peak
6	15720.000	14.29	41.22	37.31	34.55	52.75	74.00	-21.25	peak



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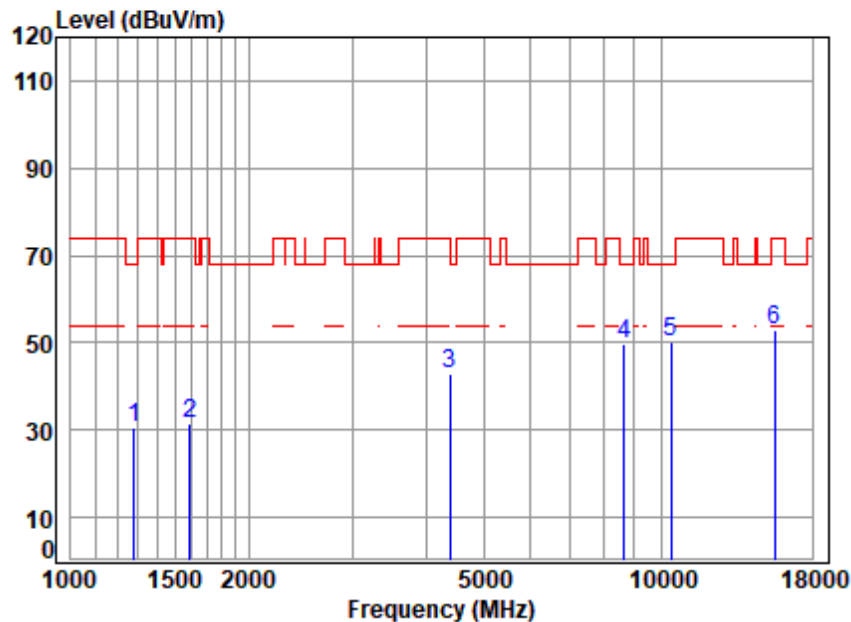
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5190 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	3.69	25.04	38.35	40.47	30.85	68.20	-37.35	peak
2	1498.781	4.06	26.77	38.39	39.71	32.15	74.00	-41.85	peak
3	4469.214	7.10	33.97	35.75	37.13	42.45	68.20	-25.75	peak
4	8713.630	11.42	36.90	37.32	38.34	49.34	68.20	-18.86	peak
5	10380.000	12.74	37.10	37.55	38.05	50.34	68.20	-17.86	peak
6	15570.000	14.24	41.10	37.25	34.38	52.47	74.00	-21.53	peak

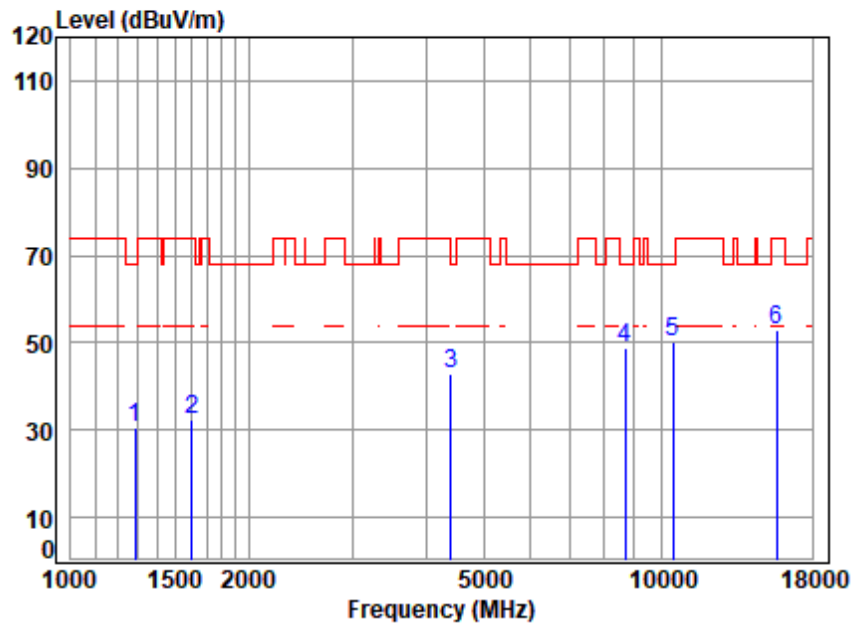
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5190 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1278.492	3.72	24.93	38.35	40.46	30.76	68.20	-37.44	peak
2	1592.571	4.19	26.83	38.40	39.01	31.63	74.00	-42.37	peak
3	4379.699	7.04	34.64	35.81	37.17	43.04	74.00	-30.96	peak
4	8663.404	11.33	36.90	37.27	38.85	49.81	68.20	-18.39	peak
5	10380.000	12.74	37.10	37.55	37.87	50.16	68.20	-18.04	peak
6	15570.000	14.24	41.10	37.25	34.87	52.96	74.00	-21.04	peak

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5230 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1285.904	3.73	24.88	38.35	40.18	30.44	68.20	-37.76	peak
2	1601.804	4.20	26.78	38.40	39.91	32.49	74.00	-41.51	peak
3	4405.090	7.06	34.74	35.79	36.87	42.88	68.20	-25.32	peak
4	8688.480	11.38	36.90	37.30	37.90	48.88	68.20	-19.32	peak
5	10460.000	12.76	37.22	37.59	37.67	50.06	68.20	-18.14	peak
6	15690.000	14.28	41.19	37.30	34.97	53.14	74.00	-20.86	peak



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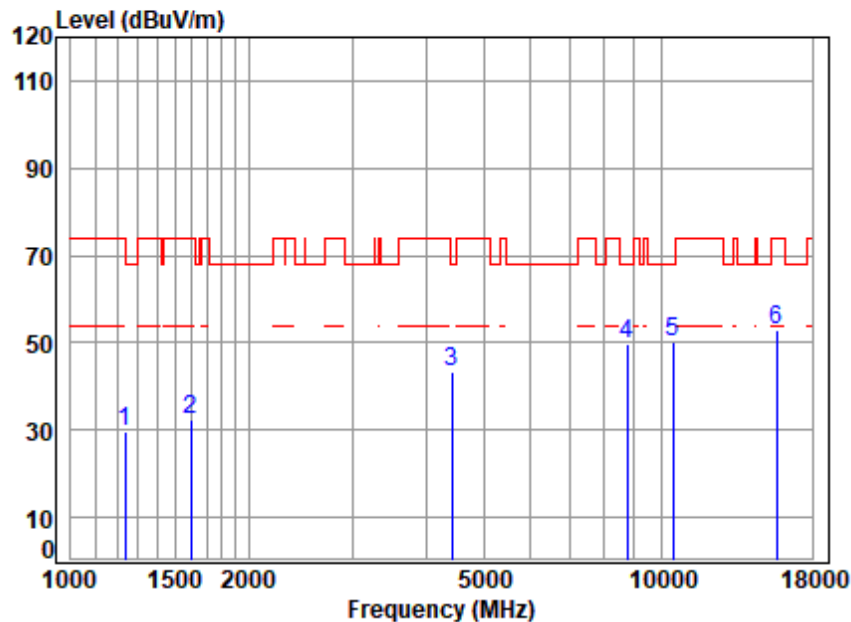
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400117605

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



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5230 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1234.909	3.64	24.89	38.35	39.68	29.86	74.00	-44.14	peak
2	1597.181	4.20	26.81	38.40	39.81	32.42	74.00	-41.58	peak
3	4417.841	7.07	34.59	35.78	37.67	43.55	68.20	-24.65	peak
4	8764.146	11.51	36.96	37.37	38.52	49.62	68.20	-18.58	peak
5	10460.000	12.76	37.22	37.59	37.91	50.30	68.20	-17.90	peak
6	15690.000	14.28	41.19	37.30	34.59	52.76	74.00	-21.24	peak



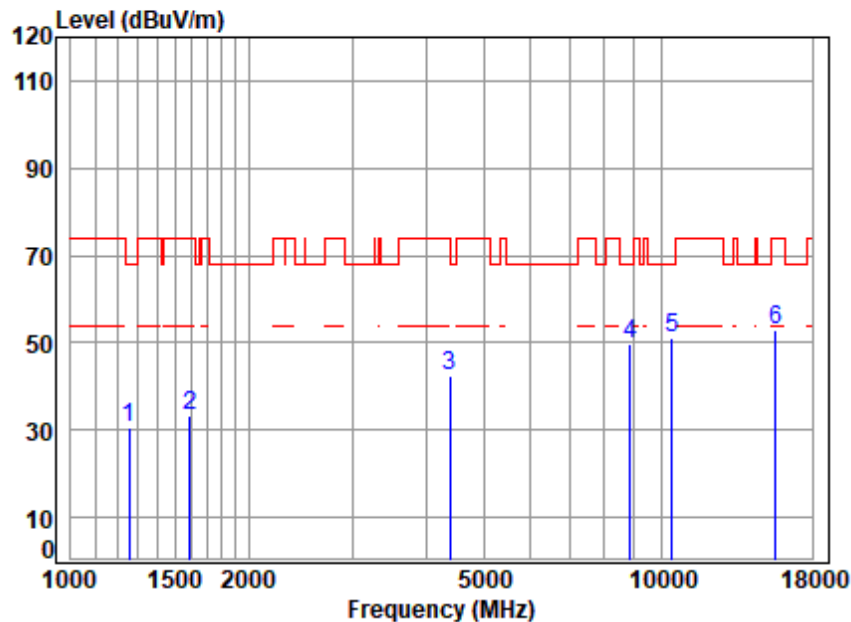
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle

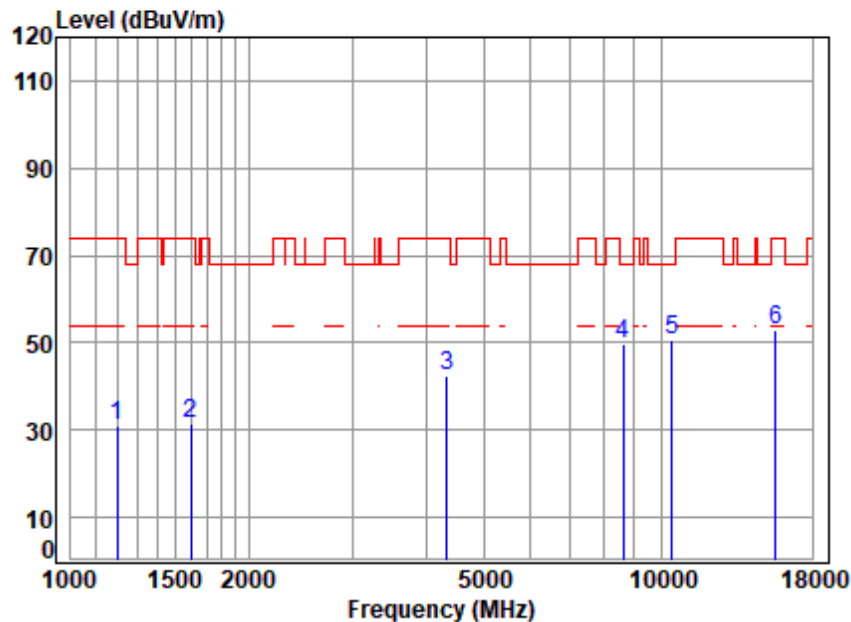


Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01176AT
 Mode : 5210 TX RSE
 Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	3.68	25.06	38.35	39.97	30.36	68.20	-37.84	peak
2	1592.571	4.19	26.83	38.40	40.50	33.12	74.00	-40.88	peak
3	4379.699	7.04	34.64	35.81	36.46	42.33	74.00	-31.67	peak
4	8866.062	11.69	37.20	37.48	38.41	49.82	68.20	-18.38	peak
5	10420.000	12.75	37.14	37.57	38.59	50.91	68.20	-17.29	peak
6	15630.000	14.26	41.13	37.27	34.70	52.82	74.00	-21.18	peak



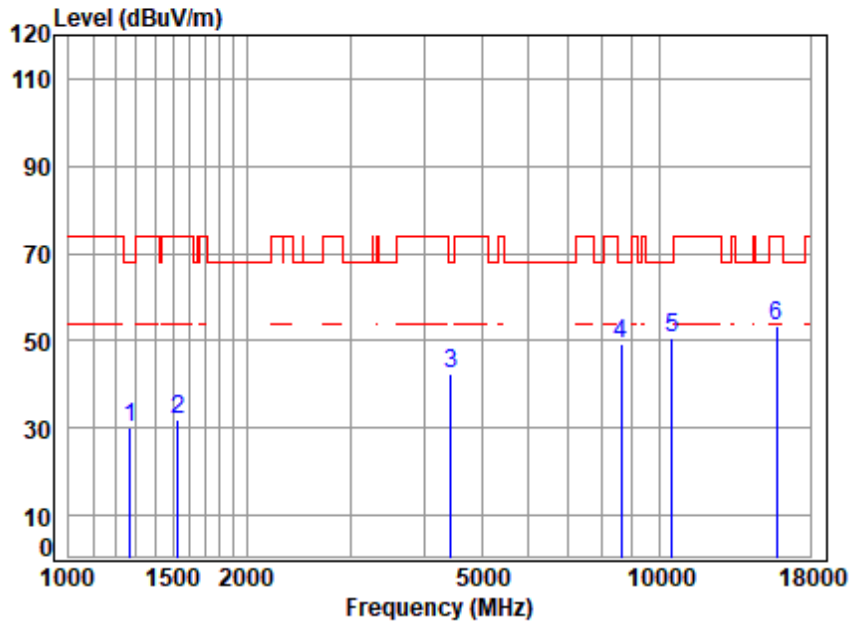
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5210 TX RSE
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	3.58	24.36	38.34	41.31	30.91	74.00	-43.09	peak
2	1597.181	4.20	26.81	38.40	38.73	31.34	74.00	-42.66	peak
3	4341.886	7.02	34.34	35.84	36.89	42.41	74.00	-31.59	peak
4	8613.468	11.24	36.90	37.22	38.80	49.72	68.20	-18.48	peak
5	10420.000	12.75	37.14	37.57	38.42	50.74	68.20	-17.46	peak
6	15630.000	14.26	41.13	37.27	34.64	52.76	74.00	-21.24	peak

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

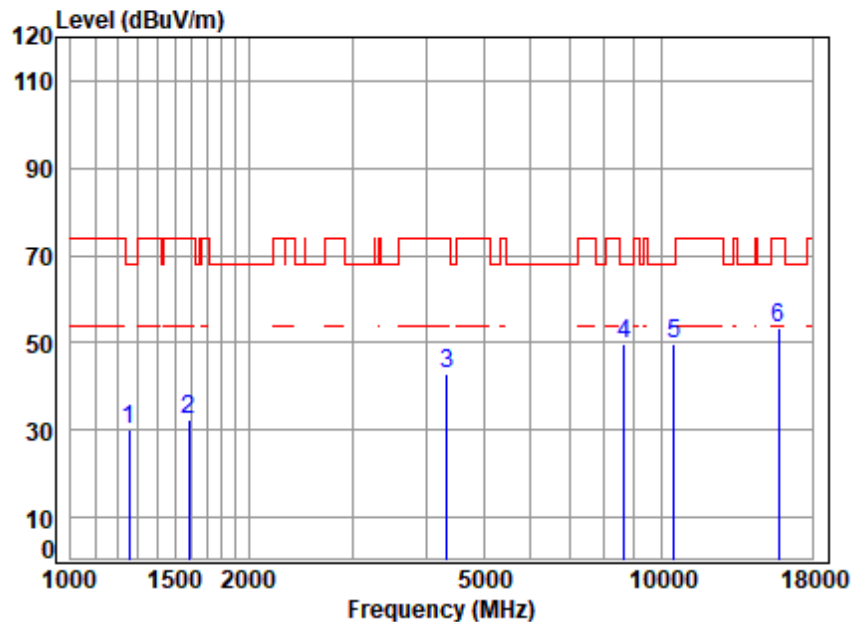


Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5260 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1271.123	3.71	24.97	38.35	39.69	30.02	68.20	-38.18	peak
2	1529.414	4.10	26.92	38.39	39.36	31.99	74.00	-42.01	peak
3	4430.628	7.08	34.43	35.77	36.75	42.49	68.20	-25.71	peak
4	8613.468	11.24	36.90	37.22	38.24	49.16	68.20	-19.04	peak
5	10520.000	12.77	37.30	37.62	38.21	50.66	68.20	-17.54	peak
6	15780.000	14.31	41.28	37.33	34.96	53.22	74.00	-20.78	peak



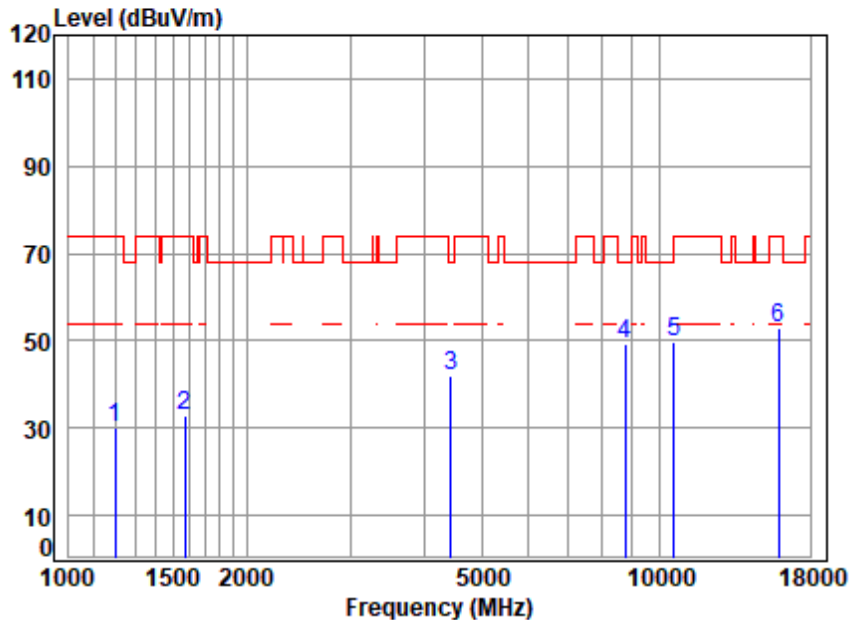
Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5260 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	3.68	25.06	38.35	39.66	30.05	68.20	-38.15	peak
2	1583.392	4.18	26.87	38.40	39.75	32.40	74.00	-41.60	peak
3	4341.886	7.02	34.34	35.84	37.29	42.81	74.00	-31.19	peak
4	8638.399	11.29	36.90	37.24	38.59	49.54	68.20	-18.66	peak
5	10520.000	12.77	37.30	37.62	37.31	49.76	68.20	-18.44	peak
6	15780.000	14.31	41.28	37.33	35.02	53.28	74.00	-20.72	peak

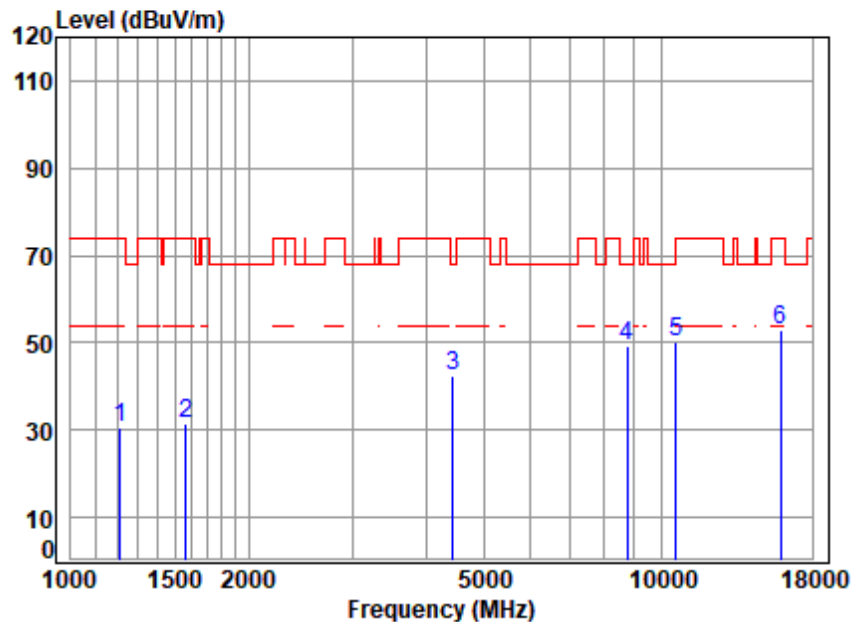
Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5300 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.726	3.58	24.40	38.34	40.62	30.26	74.00	-43.74	peak
2	1574.265	4.17	26.90	38.40	40.05	32.72	74.00	-41.28	peak
3	4430.628	7.08	34.43	35.77	36.28	42.02	68.20	-26.18	peak
4	8764.146	11.51	36.96	37.37	38.23	49.33	68.20	-18.87	peak
5	10600.000	12.80	37.30	37.66	37.49	49.93	68.20	-18.27	peak
6	15900.000	14.35	41.40	37.38	34.67	53.04	74.00	-20.96	peak

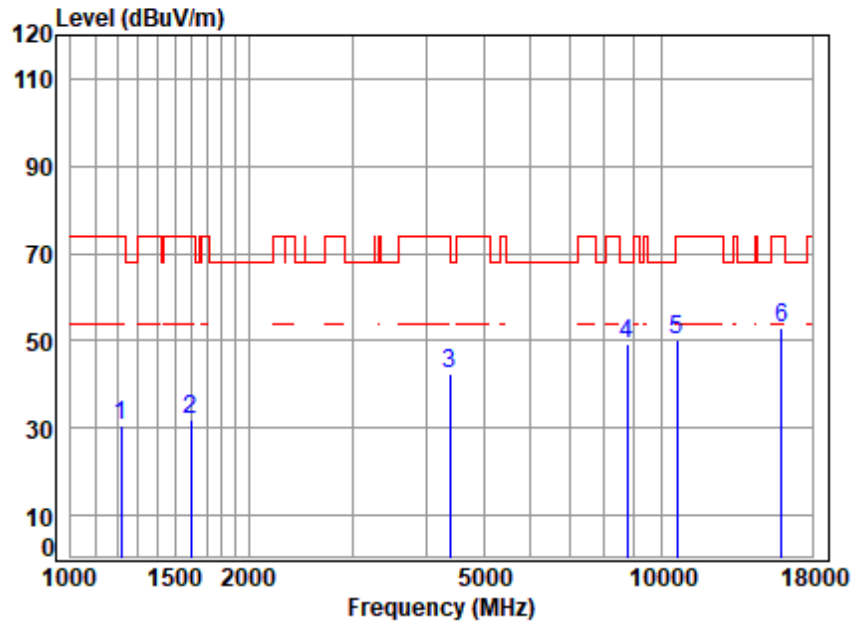
Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5300 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1213.677	3.61	24.59	38.34	40.52	30.38	74.00	-43.62	peak
2	1569.721	4.16	26.92	38.40	38.82	31.50	74.00	-42.50	peak
3	4430.628	7.08	34.43	35.77	36.56	42.30	68.20	-25.90	peak
4	8738.852	11.47	36.90	37.35	38.18	49.20	68.20	-19.00	peak
5	10600.000	12.80	37.30	37.66	37.54	49.98	68.20	-18.22	peak
6	15900.000	14.35	41.40	37.38	34.62	52.99	74.00	-21.01	peak

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

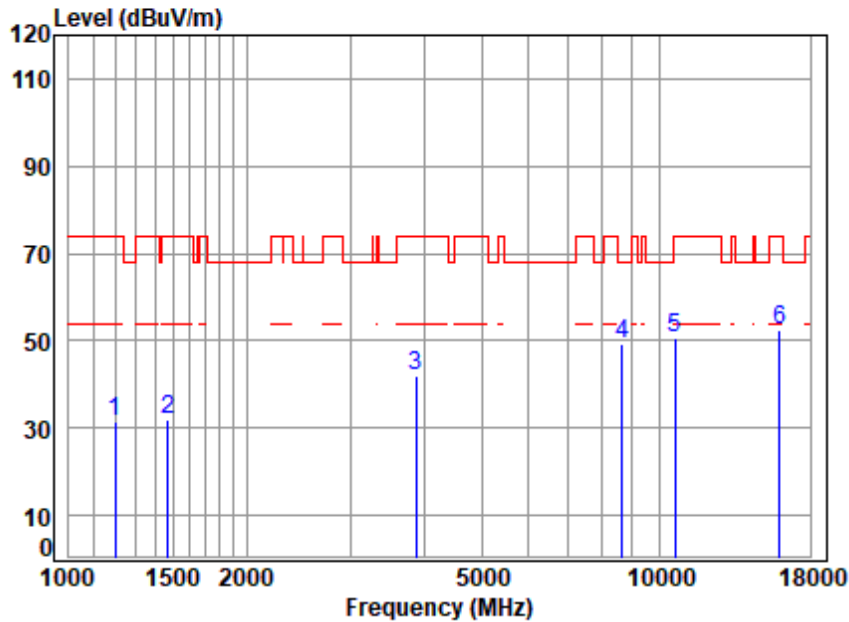


Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5320 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1217.190	3.61	24.64	38.34	40.46	30.37	74.00	-43.63	peak
2	1597.181	4.20	26.81	38.40	39.35	31.96	74.00	-42.04	peak
3	4379.699	7.04	34.64	35.81	36.78	42.65	74.00	-31.35	peak
4 p	8738.852	11.47	36.90	37.35	38.39	49.41	68.20	-18.79	peak
5	10640.000	12.81	37.22	37.68	37.67	50.02	74.00	-23.98	peak
6	15960.000	14.37	41.52	37.40	34.28	52.77	74.00	-21.23	peak



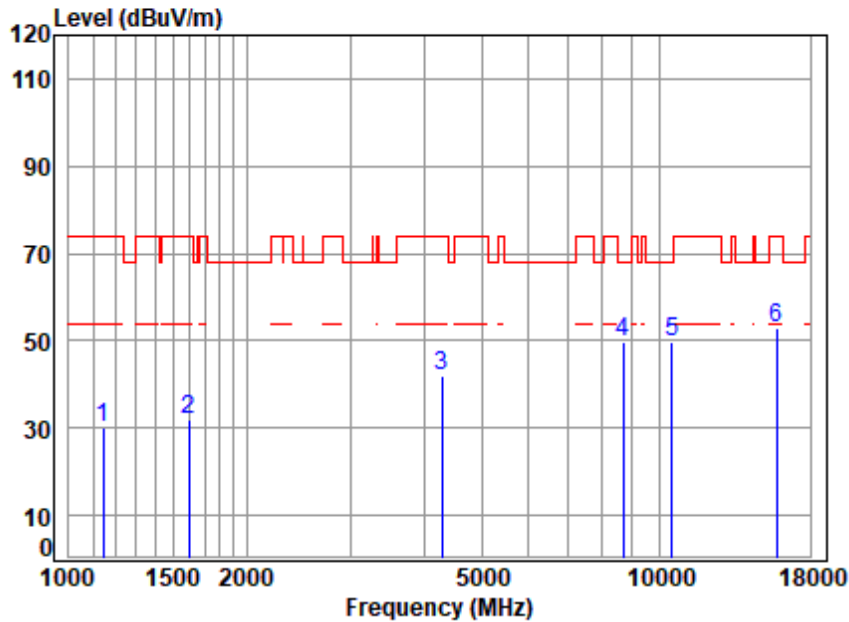
Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5320 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.726	3.58	24.40	38.34	42.00	31.64	74.00	-42.36	peak
2	1473.013	4.02	26.04	38.38	40.19	31.87	74.00	-42.13	peak
3	3879.027	6.65	33.51	36.10	37.80	41.86	74.00	-32.14	peak
4 p	8663.404	11.33	36.90	37.27	38.29	49.25	68.20	-18.95	peak
5	10640.000	12.81	37.22	37.68	38.09	50.44	74.00	-23.56	peak
6	15960.000	14.37	41.52	37.40	34.13	52.62	74.00	-21.38	peak

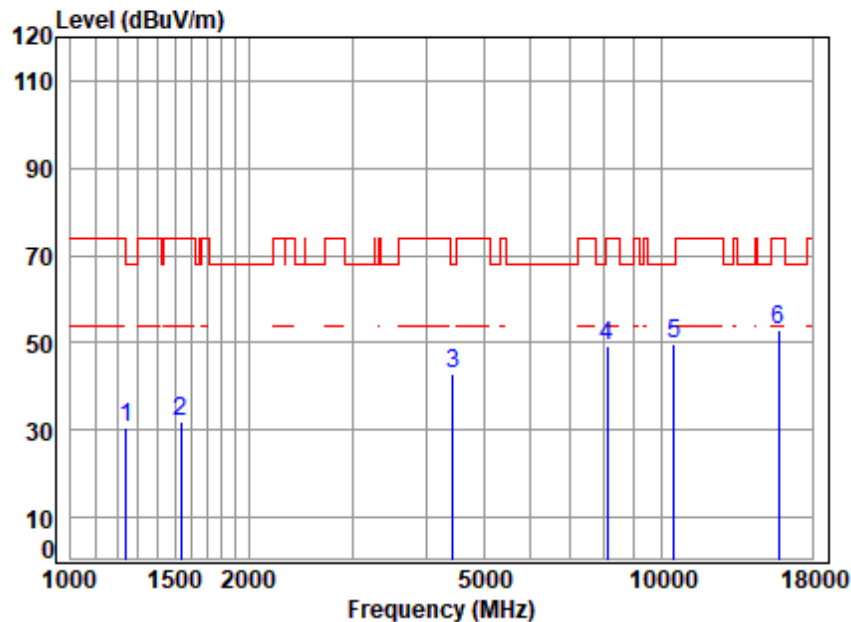
Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5260 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	3.48	23.88	38.33	41.22	30.25	74.00	-43.75	peak
2	1597.181	4.20	26.81	38.40	39.14	31.75	74.00	-42.25	peak
3	4279.589	6.98	33.92	35.89	37.07	42.08	74.00	-31.92	peak
4	8688.480	11.38	36.90	37.30	38.56	49.54	68.20	-18.66	peak
5	10520.000	12.77	37.30	37.62	37.33	49.78	68.20	-18.42	peak
6	15780.000	14.31	41.28	37.33	34.69	52.95	74.00	-21.05	peak

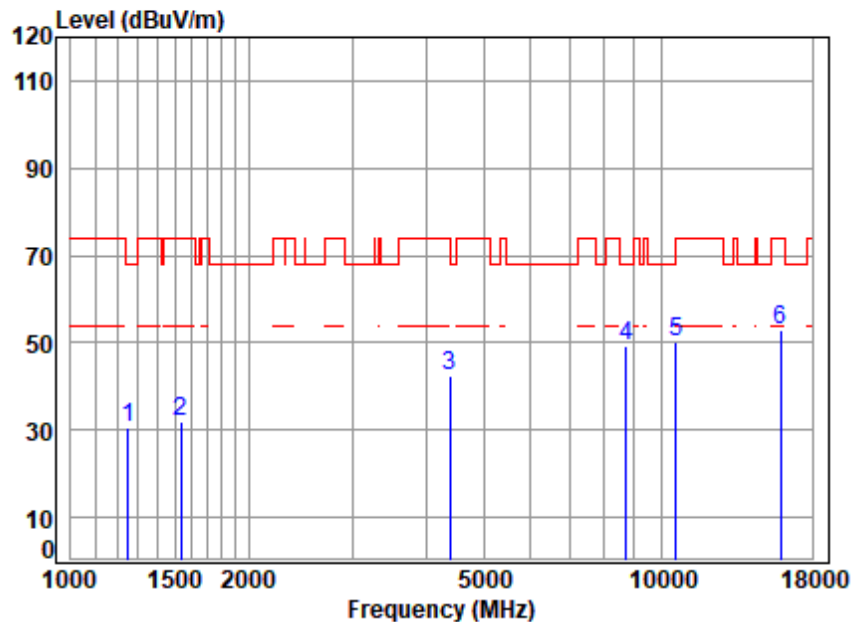
Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5260 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1242.068	3.66	24.99	38.35	40.05	30.35	68.20	-37.85	peak
2	1538.281	4.12	26.95	38.39	39.17	31.85	74.00	-42.15	peak
3	4443.453	7.09	34.28	35.77	37.23	42.83	68.20	-25.37	peak
4	8106.200	10.30	36.50	36.68	39.07	49.19	74.00	-24.81	peak
5	10520.000	12.77	37.30	37.62	37.37	49.82	68.20	-18.38	peak
6	15780.000	14.31	41.28	37.33	34.74	53.00	74.00	-21.00	peak

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5300 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.67	25.08	38.35	40.18	30.58	68.20	-37.62	peak
2	1533.841	4.11	26.94	38.39	39.13	31.79	74.00	-42.21	peak
3	4392.376	7.05	34.74	35.80	36.37	42.36	74.00	-31.64	peak
4	8713.630	11.42	36.90	37.32	38.42	49.42	68.20	-18.78	peak
5	10600.000	12.80	37.30	37.66	37.69	50.13	68.20	-18.07	peak
6	15900.000	14.35	41.40	37.38	34.64	53.01	74.00	-20.99	peak

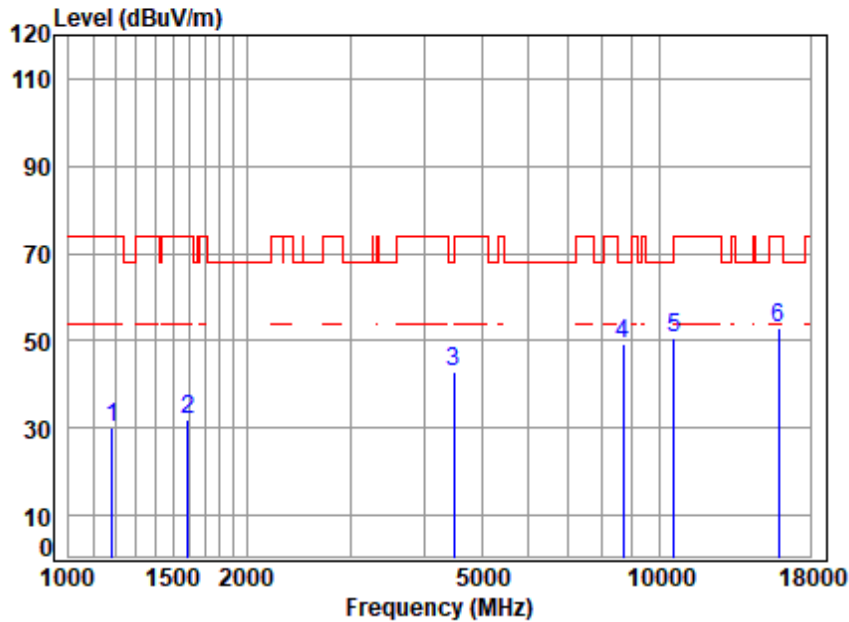
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SZEMC-TRF-01 Rev. A/1

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



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5300 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1182.513	3.55	24.23	38.34	40.47	29.91	74.00	-44.09	peak
2	1592.571	4.19	26.83	38.40	39.47	32.09	74.00	-41.91	peak
3	4495.125	7.12	33.66	35.73	37.89	42.94	68.20	-25.26	peak
4	8688.480	11.38	36.90	37.30	38.40	49.38	68.20	-18.82	peak
5	10600.000	12.80	37.30	37.66	38.05	50.49	68.20	-17.71	peak
6	15900.000	14.35	41.40	37.38	34.40	52.77	74.00	-21.23	peak



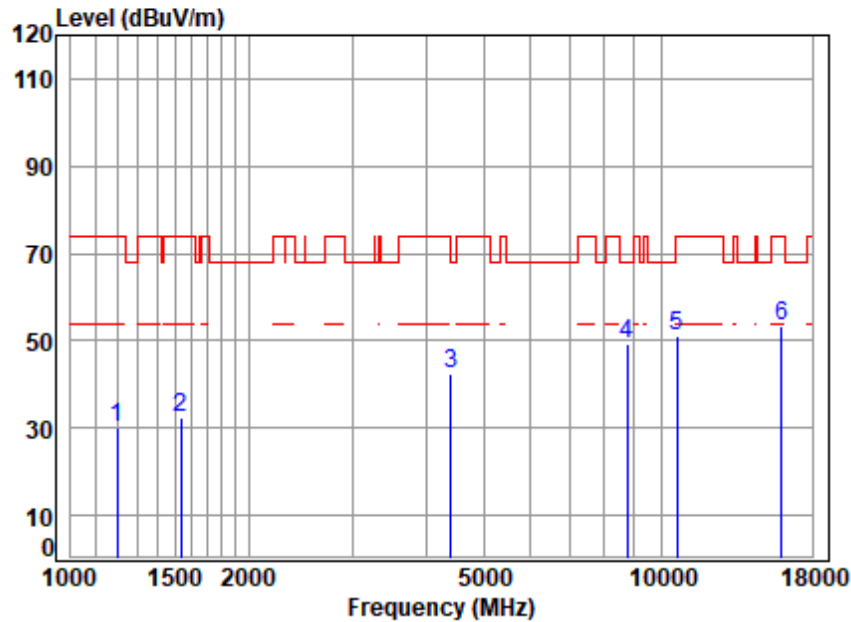
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

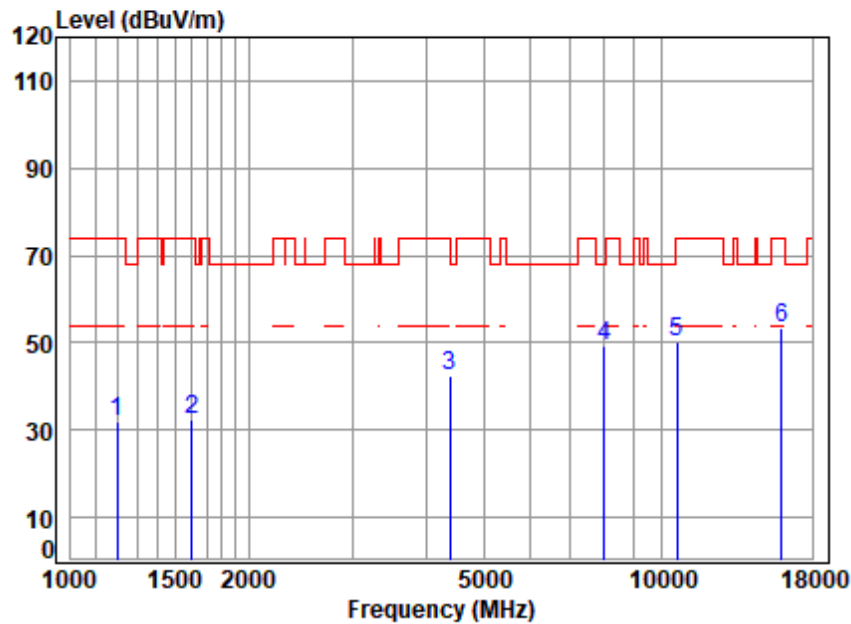


Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5320 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.726	3.58	24.40	38.34	40.56	30.20	74.00	-43.80	peak
2	1533.841	4.11	26.94	38.39	39.83	32.49	74.00	-41.51	peak
3	4405.090	7.06	34.74	35.79	36.47	42.48	68.20	-25.72	peak
4 p	8764.146	11.51	36.96	37.37	38.24	49.34	68.20	-18.86	peak
5	10640.000	12.81	37.22	37.68	38.56	50.91	74.00	-23.09	peak
6	15960.000	14.37	41.52	37.40	34.76	53.25	74.00	-20.75	peak



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

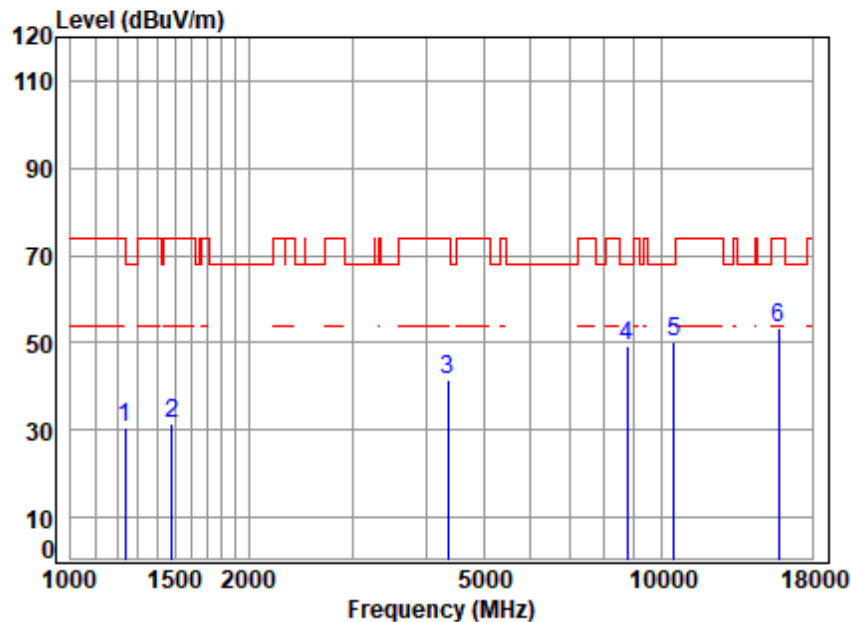


Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5320 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	3.58	24.36	38.34	42.21	31.81	74.00	-42.19	peak
2	1601.804	4.20	26.78	38.40	39.86	32.44	74.00	-41.56	peak
3	4392.376	7.05	34.74	35.80	36.32	42.31	74.00	-31.69	peak
4 p	8013.020	10.13	36.40	36.57	39.41	49.37	68.20	-18.83	peak
5	10640.000	12.81	37.22	37.68	37.83	50.18	74.00	-23.82	peak
6	15960.000	14.37	41.52	37.40	35.05	53.54	74.00	-20.46	peak



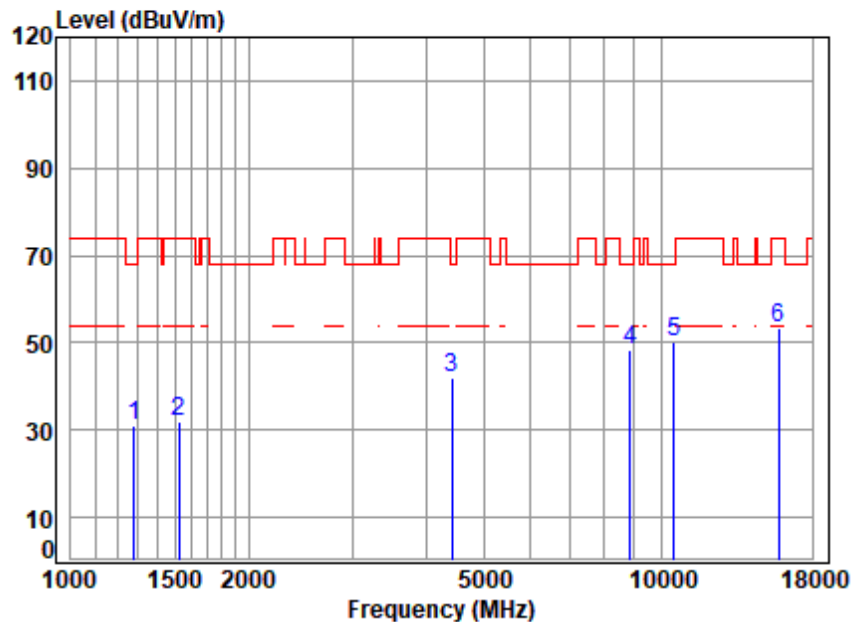
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5260 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1234.909	3.64	24.89	38.35	40.41	30.59	74.00	-43.41	peak
2	1485.841	4.04	26.40	38.39	39.38	31.43	74.00	-42.57	peak
3	4354.454	7.03	34.44	35.83	36.01	41.65	74.00	-32.35	peak
4	8764.146	11.51	36.96	37.37	38.40	49.50	68.20	-18.70	peak
5	10520.000	12.77	37.30	37.62	37.66	50.11	68.20	-18.09	peak
6	15780.000	14.31	41.28	37.33	35.03	53.29	74.00	-20.71	peak

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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01176AT
 Mode : 5260 TX RSE
 Note : 5G WIFI 11AC20

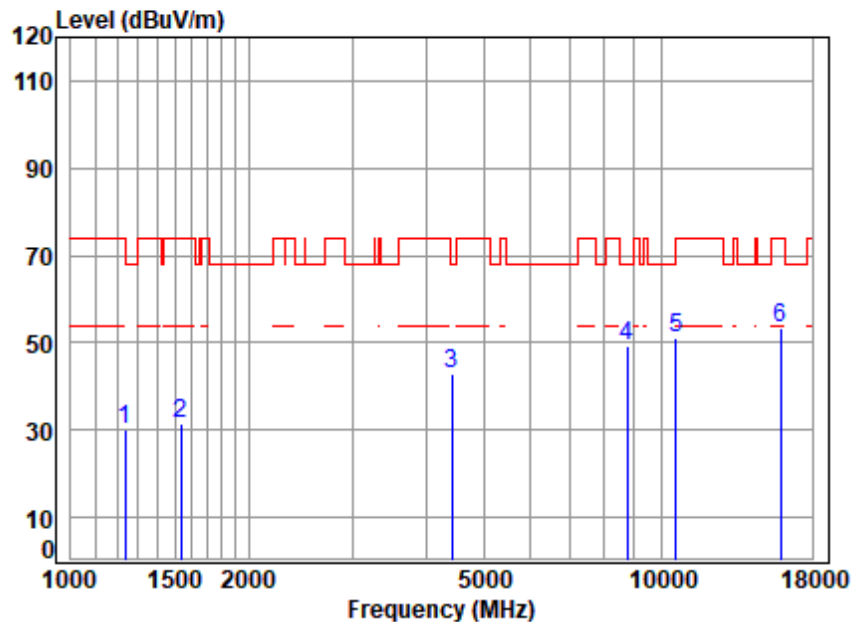
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1278.492	3.72	24.93	38.35	40.80	31.10	68.20	-37.10	peak
2	1525.000	4.10	26.90	38.39	39.33	31.94	74.00	-42.06	peak
3	4417.841	7.07	34.59	35.78	36.22	42.10	68.20	-26.10	peak
4	8866.062	11.69	37.20	37.48	37.09	48.50	68.20	-19.70	peak
5	10520.000	12.77	37.30	37.62	37.65	50.10	68.20	-18.10	peak
6	15780.000	14.31	41.28	37.33	34.90	53.16	74.00	-20.84	peak



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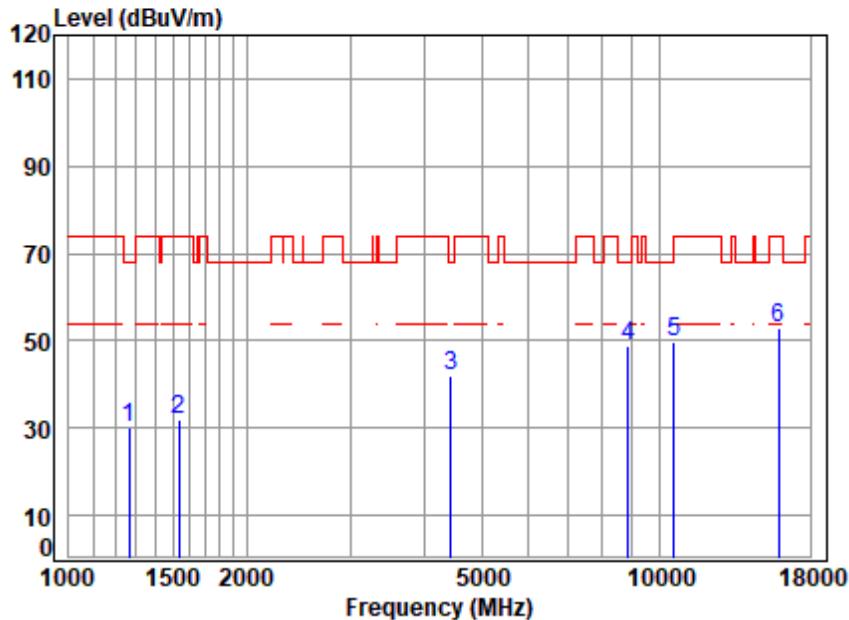
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5300 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1234.909	3.64	24.89	38.35	39.95	30.13	74.00	-43.87	peak
2	1533.841	4.11	26.94	38.39	38.88	31.54	74.00	-42.46	peak
3	4417.841	7.07	34.59	35.78	36.80	42.68	68.20	-25.52	peak
4	8764.146	11.51	36.96	37.37	38.27	49.37	68.20	-18.83	peak
5	10600.000	12.80	37.30	37.66	38.49	50.93	68.20	-17.27	peak
6	15900.000	14.35	41.40	37.38	34.83	53.20	74.00	-20.80	peak

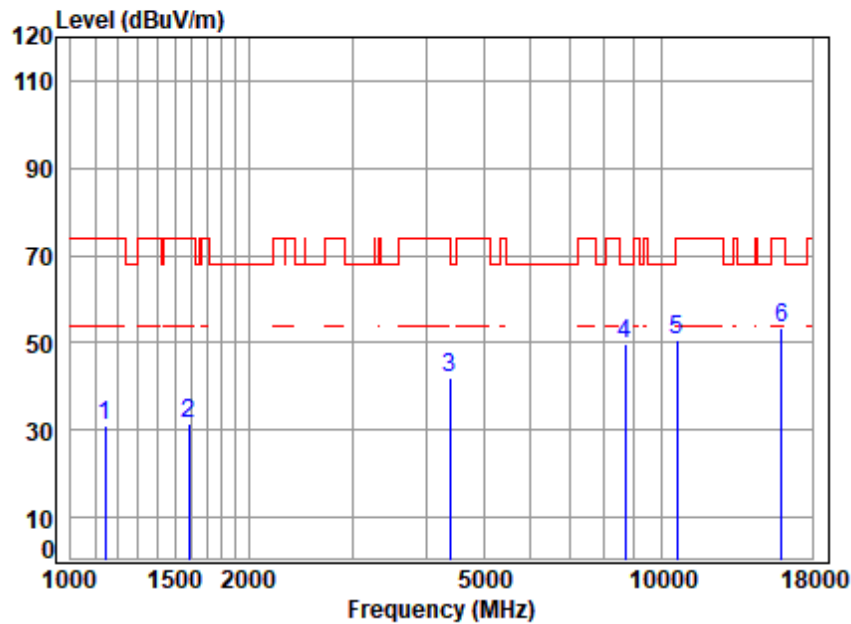
Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5300 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	3.69	25.02	38.35	39.72	30.08	68.20	-38.12	peak
2	1533.841	4.11	26.94	38.39	39.27	31.93	74.00	-42.07	peak
3	4430.628	7.08	34.43	35.77	36.02	41.76	68.20	-26.44	peak
4	8840.473	11.64	37.18	37.45	37.65	49.02	68.20	-19.18	peak
5	10600.000	12.80	37.30	37.66	37.44	49.88	68.20	-18.32	peak
6	15900.000	14.35	41.40	37.38	34.37	52.74	74.00	-21.26	peak

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

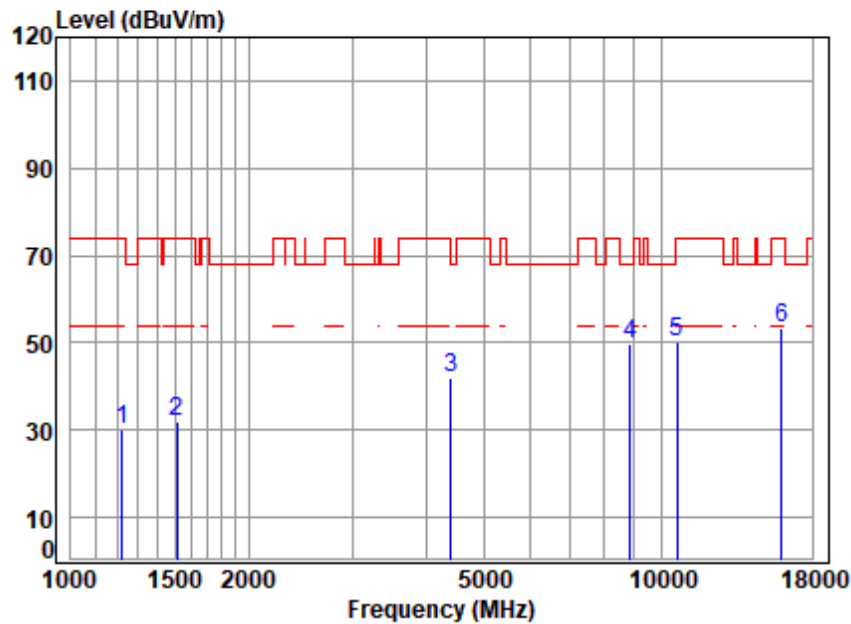


Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5320 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	3.48	23.88	38.33	41.89	30.92	74.00	-43.08	peak
2	1583.392	4.18	26.87	38.40	39.02	31.67	74.00	-42.33	peak
3	4392.376	7.05	34.74	35.80	36.09	42.08	74.00	-31.92	peak
4 p	8688.480	11.38	36.90	37.30	38.64	49.62	68.20	-18.58	peak
5	10640.000	12.81	37.22	37.68	38.26	50.61	74.00	-23.39	peak
6	15960.000	14.37	41.52	37.40	34.87	53.36	74.00	-20.64	peak



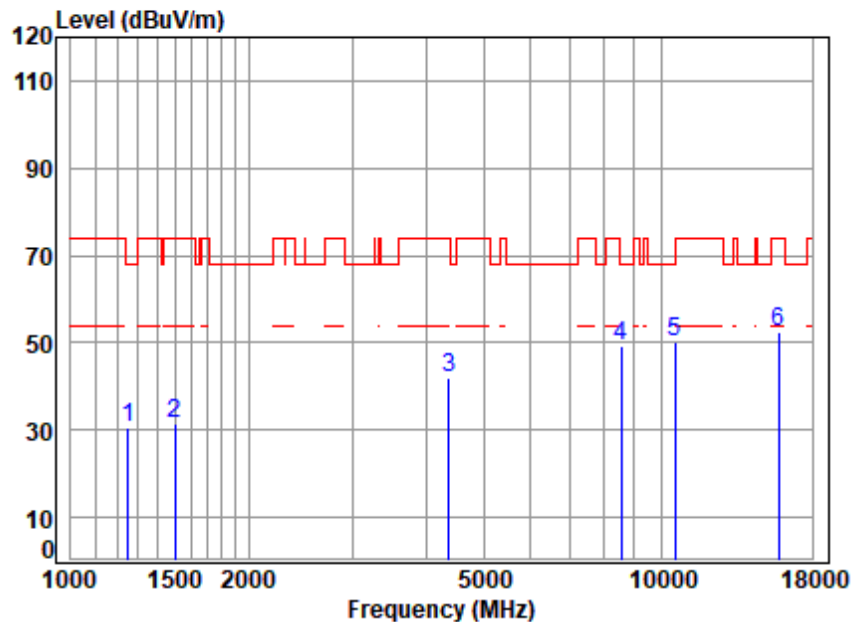
Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5320 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.247	3.62	24.74	38.34	40.06	30.08	74.00	-43.92	peak
2	1511.833	4.08	26.85	38.39	39.18	31.72	74.00	-42.28	peak
3	4405.090	7.06	34.74	35.79	36.07	42.08	68.20	-26.12	peak
4 p	8866.062	11.69	37.20	37.48	38.15	49.56	68.20	-18.64	peak
5	10640.000	12.81	37.22	37.68	37.73	50.08	74.00	-23.92	peak
6	15960.000	14.37	41.52	37.40	34.67	53.16	74.00	-20.84	peak

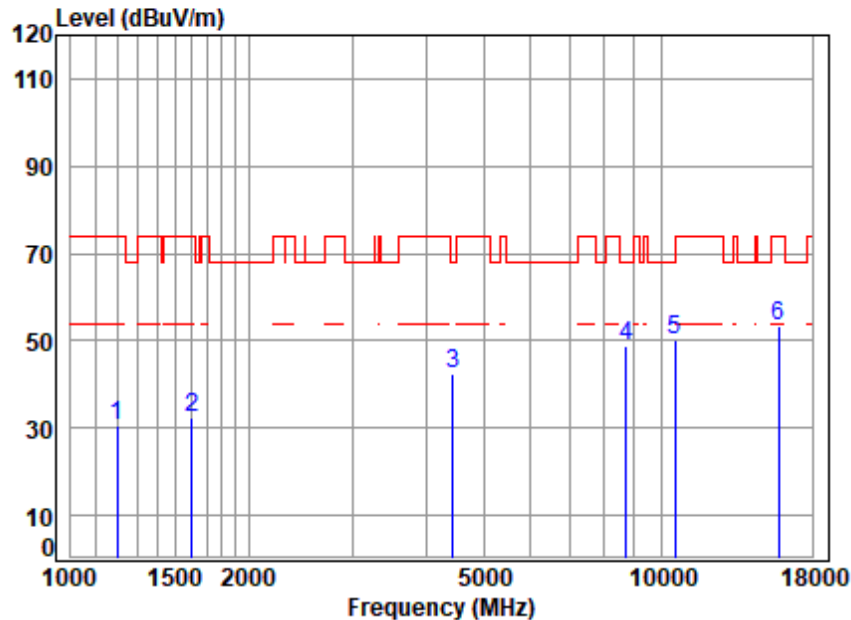
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01176AT
 Mode : 5270 TX RSE
 Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.67	25.08	38.35	39.95	30.35	68.20	-37.85	peak
2	1498.781	4.06	26.77	38.39	38.90	31.34	74.00	-42.66	peak
3	4367.058	7.04	34.54	35.82	36.05	41.81	74.00	-32.19	peak
4	8563.818	11.15	36.83	37.17	38.44	49.25	68.20	-18.95	peak
5	10540.000	12.78	37.30	37.63	37.71	50.16	68.20	-18.04	peak
6	15810.000	14.32	41.31	37.34	34.23	52.52	74.00	-21.48	peak

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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01176AT
 Mode : 5270 TX RSE
 Note : 5G WIFI 11AC40

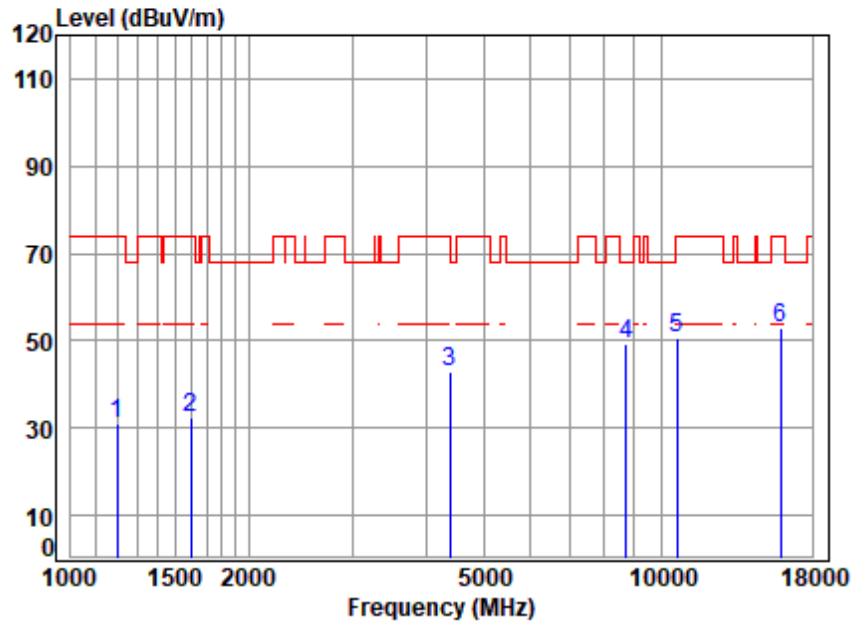
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	3.58	24.36	38.34	41.01	30.61	74.00	-43.39	peak
2	1601.804	4.20	26.78	38.40	39.87	32.45	74.00	-41.55	peak
3	4443.453	7.09	34.28	35.77	36.90	42.50	68.20	-25.70	peak
4	8713.630	11.42	36.90	37.32	37.86	48.86	68.20	-19.34	peak
5	10540.000	12.78	37.30	37.63	37.76	50.21	68.20	-17.99	peak
6	15810.000	14.32	41.31	37.34	34.98	53.27	74.00	-20.73	peak



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

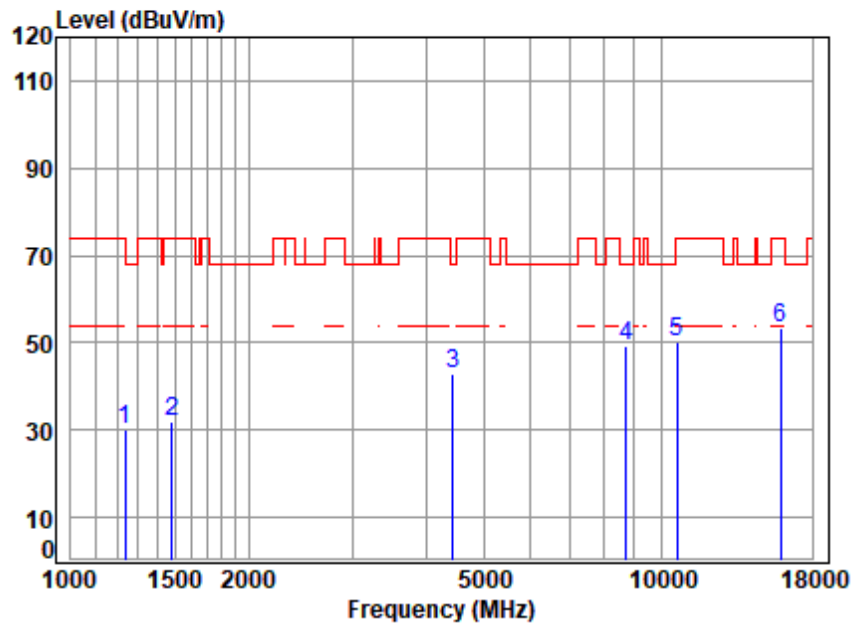


Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5310 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	3.58	24.36	38.34	41.21	30.81	74.00	-43.19	peak
2	1597.181	4.20	26.81	38.40	39.76	32.37	74.00	-41.63	peak
3	4392.376	7.05	34.74	35.80	36.69	42.68	74.00	-31.32	peak
4 p	8713.630	11.42	36.90	37.32	38.07	49.07	68.20	-19.13	peak
5	10620.000	12.80	37.26	37.67	38.32	50.71	74.00	-23.29	peak
6	15930.000	14.36	41.46	37.39	34.35	52.78	74.00	-21.22	peak



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

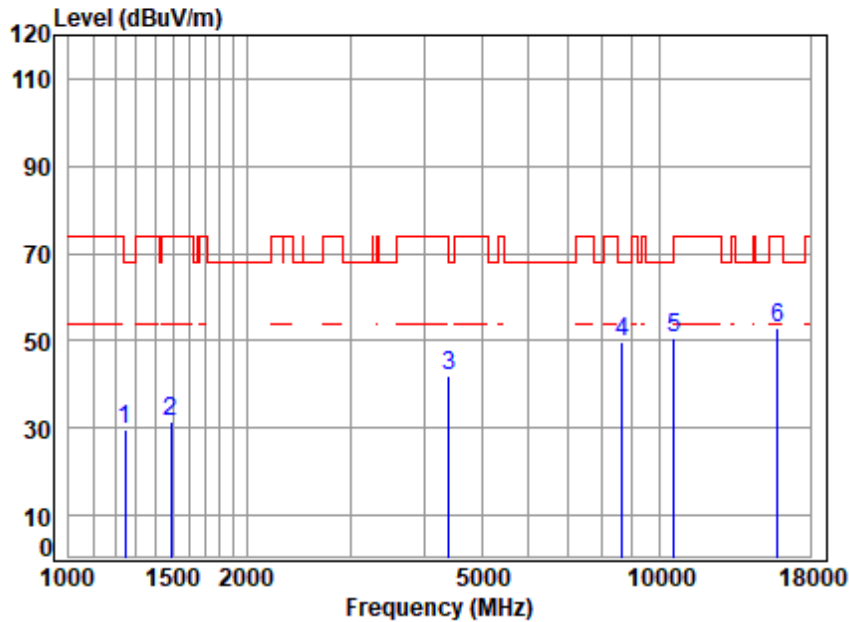


Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5310 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1234.909	3.64	24.89	38.35	40.13	30.31	74.00	-43.69	peak
2	1485.841	4.04	26.40	38.39	39.73	31.78	74.00	-42.22	peak
3	4443.453	7.09	34.28	35.77	37.45	43.05	68.20	-25.15	peak
4 p	8713.630	11.42	36.90	37.32	38.21	49.21	68.20	-18.99	peak
5	10620.000	12.80	37.26	37.67	37.69	50.08	74.00	-23.92	peak
6	15930.000	14.36	41.46	37.39	34.88	53.31	74.00	-20.69	peak



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



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01176AT
 Mode : 5290 TX RSE
 Note : 5G WIFI 11AC80

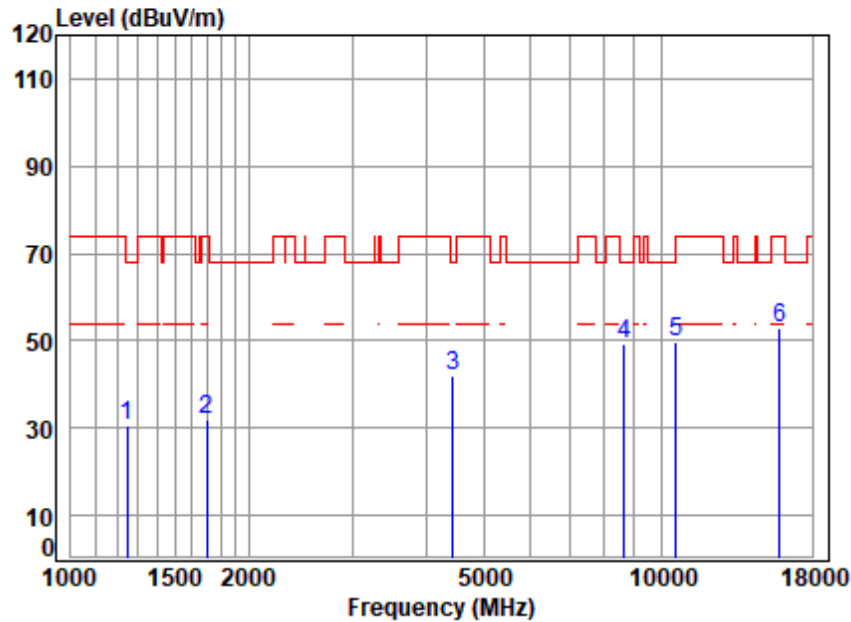
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	3.66	25.04	38.35	39.49	29.84	68.20	-38.36	peak
2	1490.142	4.05	26.52	38.39	39.32	31.50	74.00	-42.50	peak
3	4405.090	7.06	34.74	35.79	36.08	42.09	68.20	-26.11	peak
4	8663.404	11.33	36.90	37.27	38.58	49.54	68.20	-18.66	peak
5	10580.000	12.79	37.30	37.65	38.26	50.70	68.20	-17.50	peak
6	15870.000	14.34	41.37	37.37	34.52	52.86	74.00	-21.14	peak



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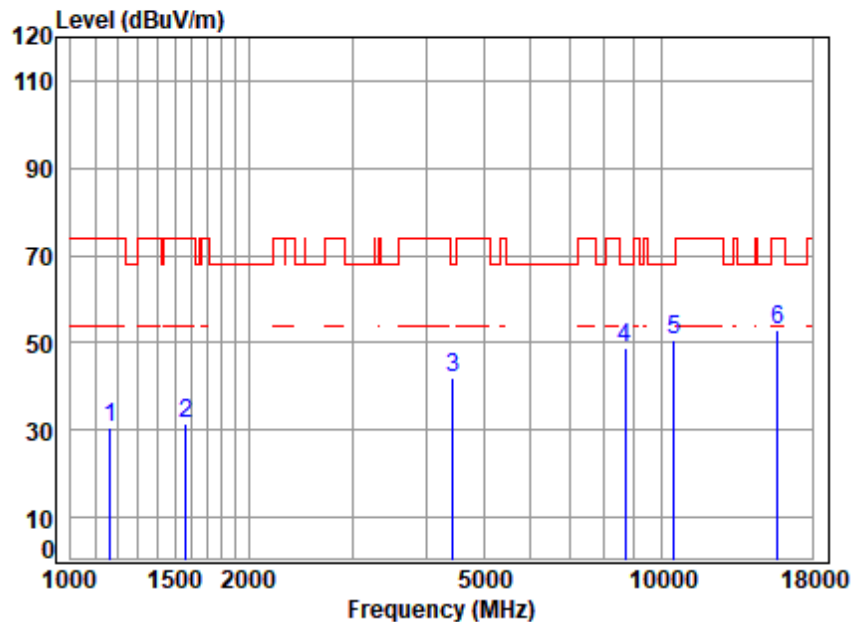
Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5290 TX RSE
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	3.66	25.04	38.35	40.12	30.47	68.20	-37.73	peak
2	1697.129	4.33	26.21	38.41	39.94	32.07	74.00	-41.93	peak
3	4430.628	7.08	34.43	35.77	36.23	41.97	68.20	-26.23	peak
4	8638.399	11.29	36.90	37.24	38.19	49.14	68.20	-19.06	peak
5	10580.000	12.79	37.30	37.65	37.16	49.60	68.20	-18.60	peak
6	15870.000	14.34	41.37	37.37	34.71	53.05	74.00	-20.95	peak

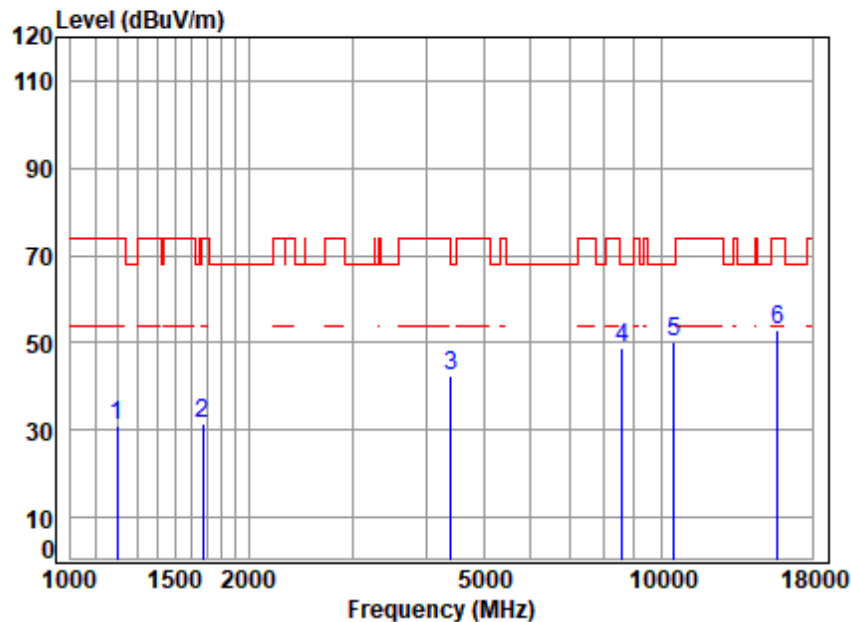
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01176AT
 Mode : 5250 TX RSE
 Note : 5G WIFI 11AC160

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1165.546	3.52	24.06	38.33	41.53	30.78	74.00	-43.22	peak
2	1569.721	4.16	26.92	38.40	38.97	31.65	74.00	-42.35	peak
3	4443.453	7.09	34.28	35.77	36.30	41.90	68.20	-26.30	peak
4	8688.480	11.38	36.90	37.30	37.90	48.88	68.20	-19.32	peak
5	10500.000	12.77	37.30	37.61	38.08	50.54	68.20	-17.66	peak
6	15750.000	14.30	41.25	37.32	34.69	52.92	74.00	-21.08	peak

Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle

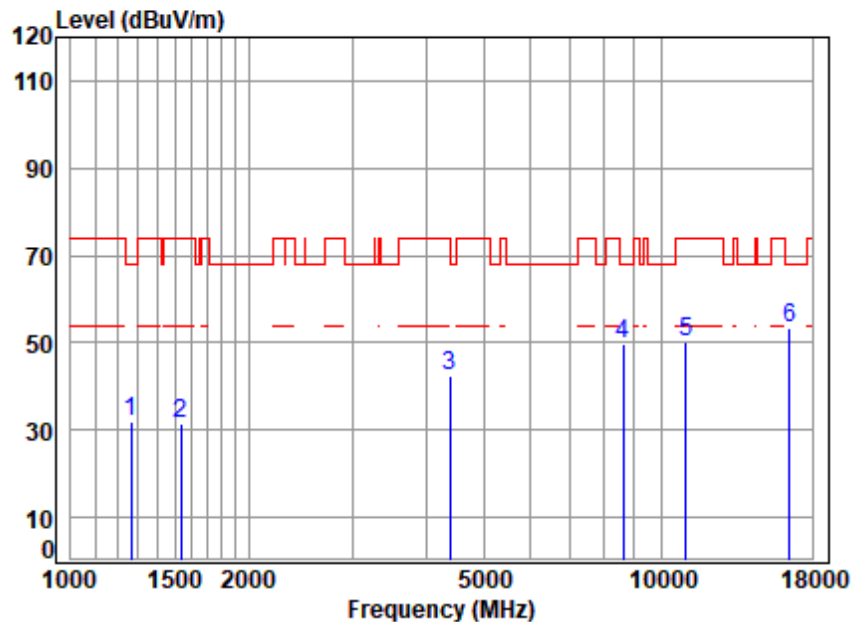


Site : chamber
 Condition: 3m VERTICAL
 Job No : 01176AT
 Mode : 5250 TX RSE
 Note : 5G WIFI 11AC160

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.726	3.58	24.40	38.34	41.60	31.24	74.00	-42.76	peak
2	1672.779	4.30	26.25	38.41	39.56	31.70	74.00	-42.30	peak
3	4405.090	7.06	34.74	35.79	36.39	42.40	68.20	-25.80	peak
4	8588.607	11.20	36.88	37.19	38.11	49.00	68.20	-19.20	peak
5	10500.000	12.77	37.30	37.61	37.71	50.17	68.20	-18.03	peak
6	15750.000	14.30	41.25	37.32	34.91	53.14	74.00	-20.86	peak



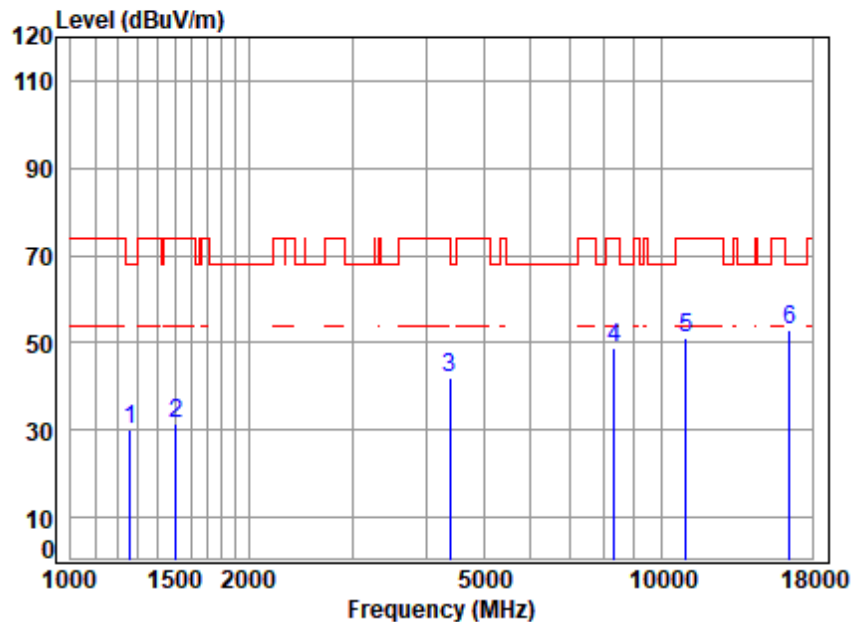
Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01176AT
 Mode : 5500 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	3.69	25.02	38.35	41.52	31.88	68.20	-36.32	peak
2	1533.841	4.11	26.94	38.39	38.97	31.63	74.00	-42.37	peak
3	4392.376	7.05	34.74	35.80	36.61	42.60	74.00	-31.40	peak
4	8613.468	11.24	36.90	37.22	38.98	49.90	68.20	-18.30	peak
5	11000.000	12.90	37.50	37.84	37.58	50.14	74.00	-23.86	peak
6	16500.000	14.47	42.10	37.47	34.17	53.27	68.20	-14.93	peak

Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5500 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	3.69	25.04	38.35	39.91	30.29	68.20	-37.91	peak
2	1507.470	4.07	26.83	38.39	38.96	31.47	74.00	-42.53	peak
3	4392.376	7.05	34.74	35.80	36.11	42.10	74.00	-31.90	peak
4	8319.836	10.71	36.70	36.91	38.28	48.78	74.00	-25.22	peak
5	11000.000	12.90	37.50	37.84	38.58	51.14	74.00	-22.86	peak
6	16500.000	14.47	42.10	37.47	33.72	52.82	68.20	-15.38	peak

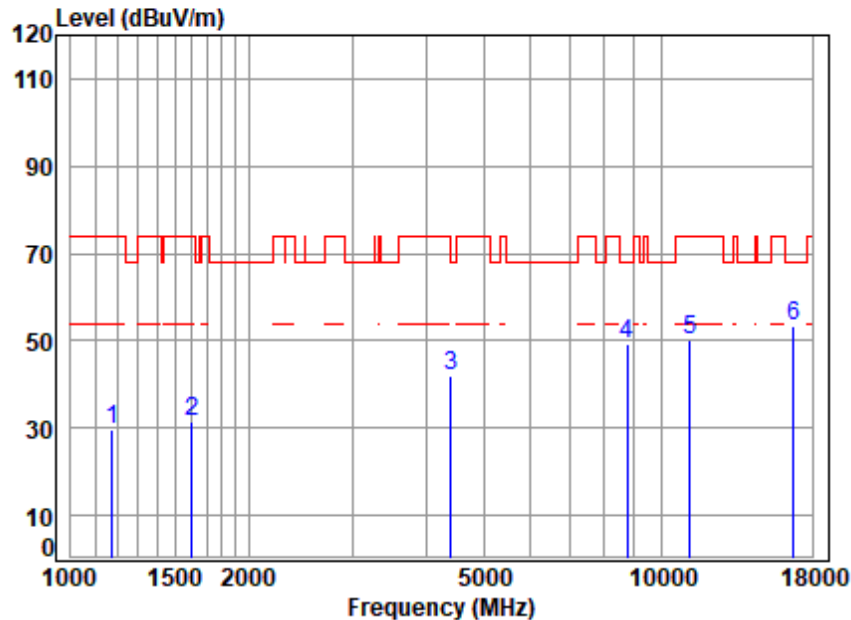
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5580 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1175.697	3.54	24.16	38.34	40.34	29.70	74.00	-44.30	peak
2	1601.804	4.20	26.78	38.40	39.11	31.69	74.00	-42.31	peak
3	4405.090	7.06	34.74	35.79	35.93	41.94	68.20	-26.26	peak
4	8764.146	11.51	36.96	37.37	38.31	49.41	68.20	-18.79	peak
5	11160.000	12.93	37.62	37.79	37.39	50.15	74.00	-23.85	peak
6	p16740.000	14.51	42.78	37.49	33.68	53.48	68.20	-14.72	peak



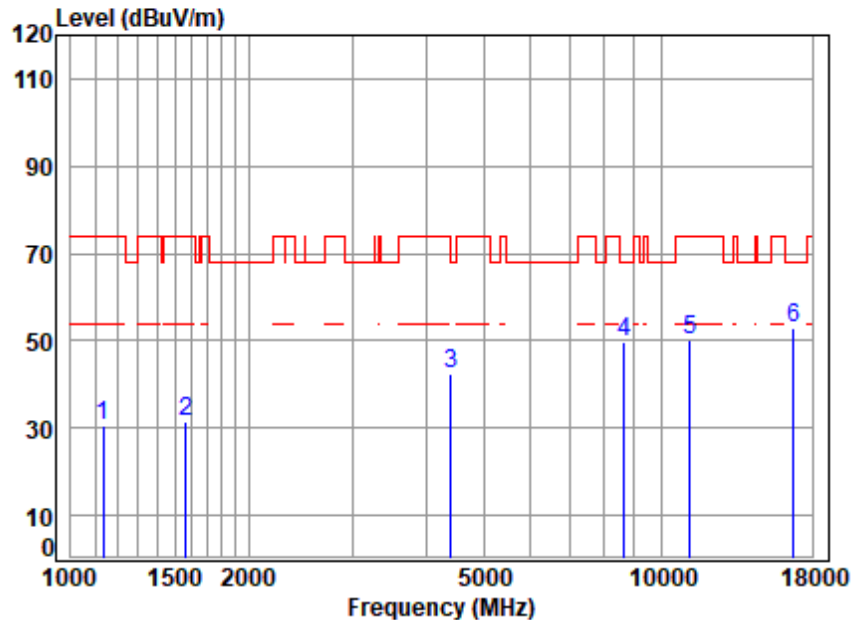
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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01176AT
 Mode : 5580 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1135.617	3.46	23.84	38.33	41.38	30.35	74.00	-43.65	peak
2	1565.191	4.15	26.94	38.40	38.84	31.53	74.00	-42.47	peak
3	4405.090	7.06	34.74	35.79	36.58	42.59	68.20	-25.61	peak
4	8638.399	11.29	36.90	37.24	38.62	49.57	68.20	-18.63	peak
5	11160.000	12.93	37.62	37.79	37.29	50.05	74.00	-23.95	peak
6	16740.000	14.51	42.78	37.49	33.05	52.85	68.20	-15.35	peak

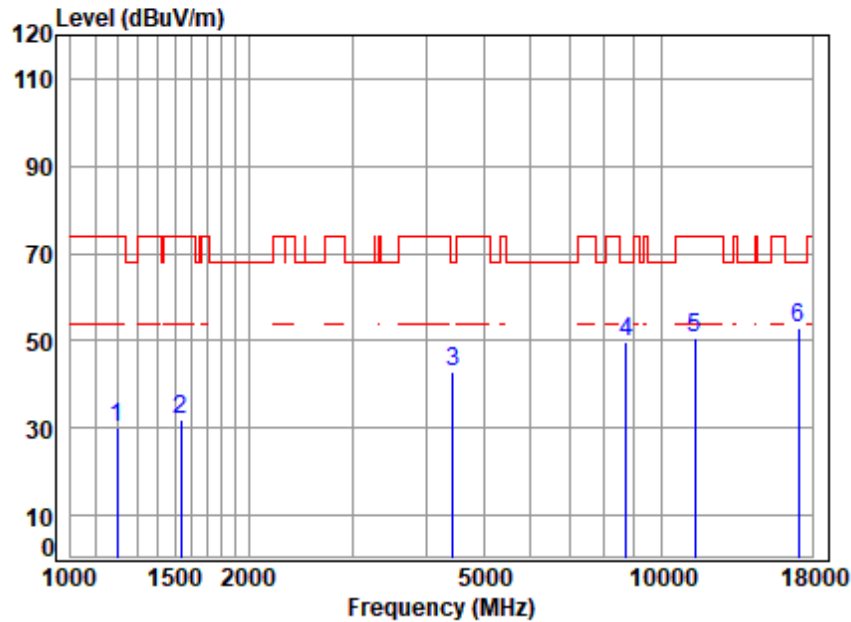
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5700 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.726	3.58	24.40	38.34	40.54	30.18	74.00	-43.82	peak
2	1538.281	4.12	26.95	38.39	39.11	31.79	74.00	-42.21	peak
3	4443.453	7.09	34.28	35.77	37.23	42.83	68.20	-25.37	peak
4	8713.630	11.42	36.90	37.32	38.53	49.53	68.20	-18.67	peak
5	11400.000	12.98	37.70	37.72	37.74	50.70	74.00	-23.30	peak
6	17100.000	14.62	43.10	37.53	32.89	53.08	68.20	-15.12	peak



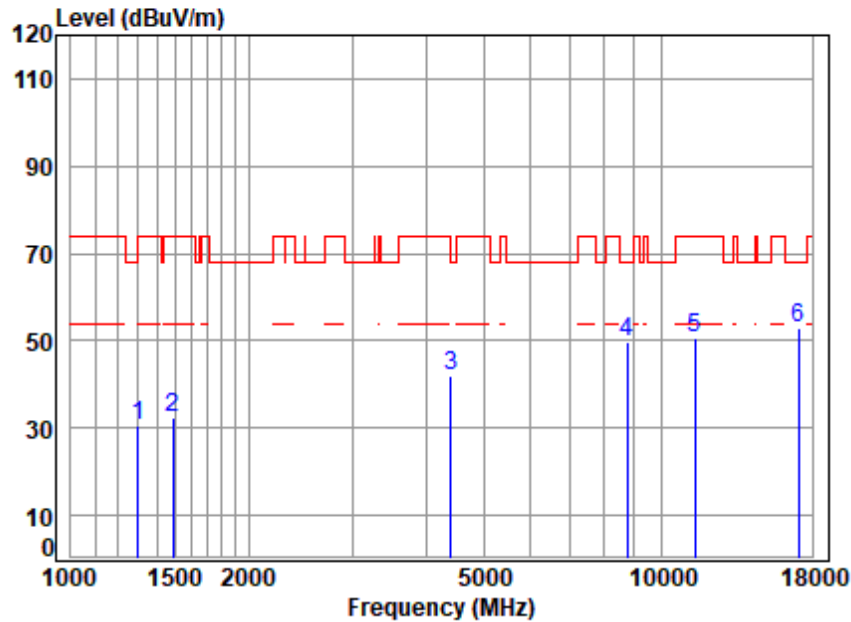
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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

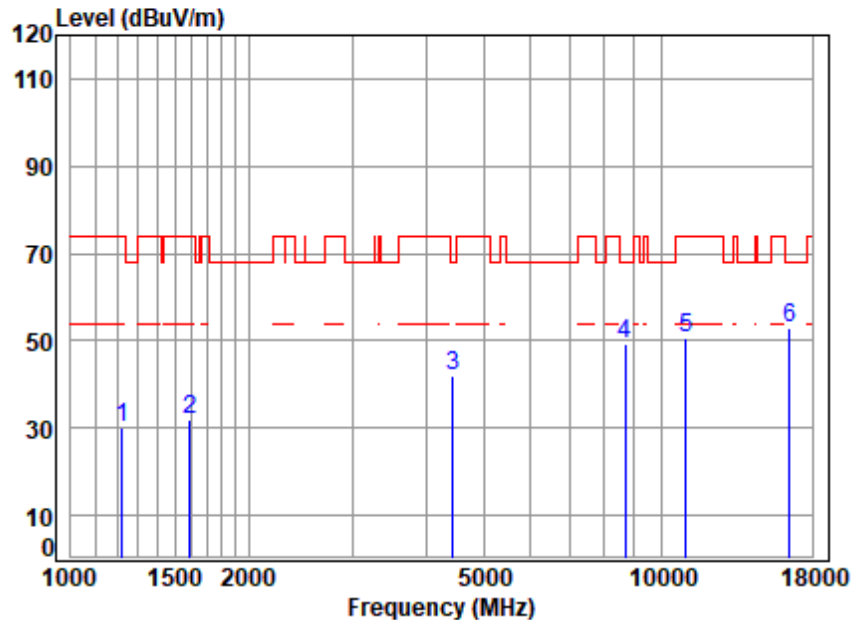


Site : chamber
 Condition: 3m VERTICAL
 Job No : 01176AT
 Mode : 5700 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	3.76	24.79	38.36	40.16	30.35	74.00	-43.65	peak
2	1490.142	4.05	26.52	38.39	40.26	32.44	74.00	-41.56	peak
3	4405.090	7.06	34.74	35.79	35.86	41.87	68.20	-26.33	peak
4	8764.146	11.51	36.96	37.37	38.49	49.59	68.20	-18.61	peak
5	11400.000	12.98	37.70	37.72	37.52	50.48	74.00	-23.52	peak
6	17100.000	14.62	43.10	37.53	32.84	53.03	68.20	-15.17	peak



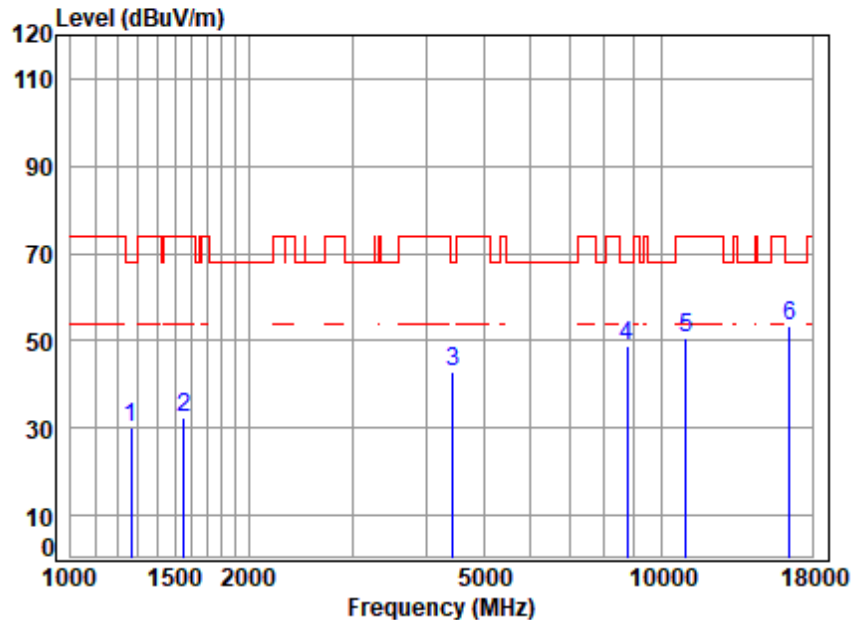
Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5500 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.247	3.62	24.74	38.34	40.08	30.10	74.00	-43.90	peak
2	1592.571	4.19	26.83	38.40	39.45	32.07	74.00	-41.93	peak
3	4443.453	7.09	34.28	35.77	36.29	41.89	68.20	-26.31	peak
4	8688.480	11.38	36.90	37.30	38.36	49.34	68.20	-18.86	peak
5	11000.000	12.90	37.50	37.84	38.07	50.63	74.00	-23.37	peak
6	p16500.000	14.47	42.10	37.47	33.74	52.84	68.20	-15.36	peak

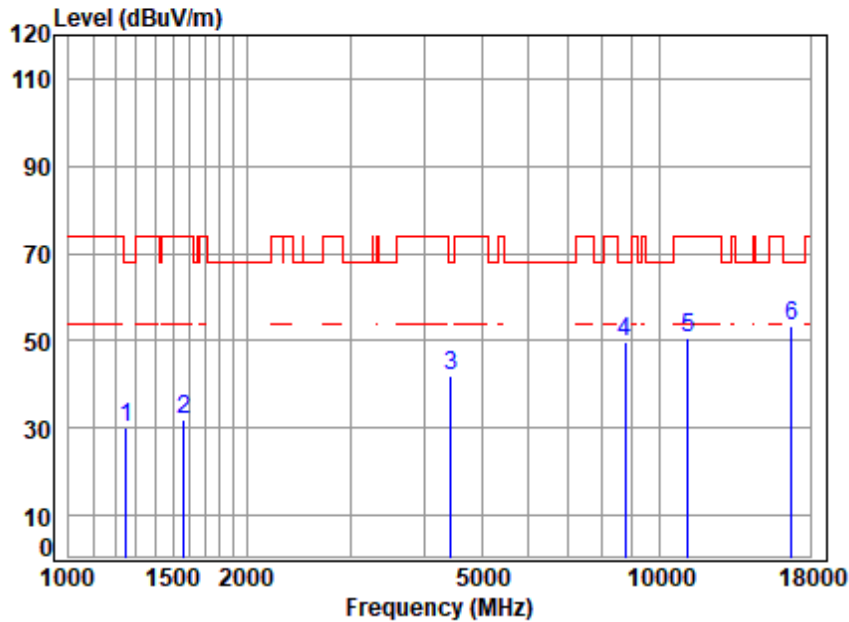
Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5500 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	3.69	25.02	38.35	39.92	30.28	68.20	-37.92	peak
2	1551.677	4.13	26.99	38.40	39.81	32.53	74.00	-41.47	peak
3	4443.453	7.09	34.28	35.77	37.20	42.80	68.20	-25.40	peak
4	8738.852	11.47	36.90	37.35	37.64	48.66	68.20	-19.54	peak
5	11000.000	12.90	37.50	37.84	37.92	50.48	74.00	-23.52	peak
6	p16500.000	14.47	42.10	37.47	34.15	53.25	68.20	-14.95	peak

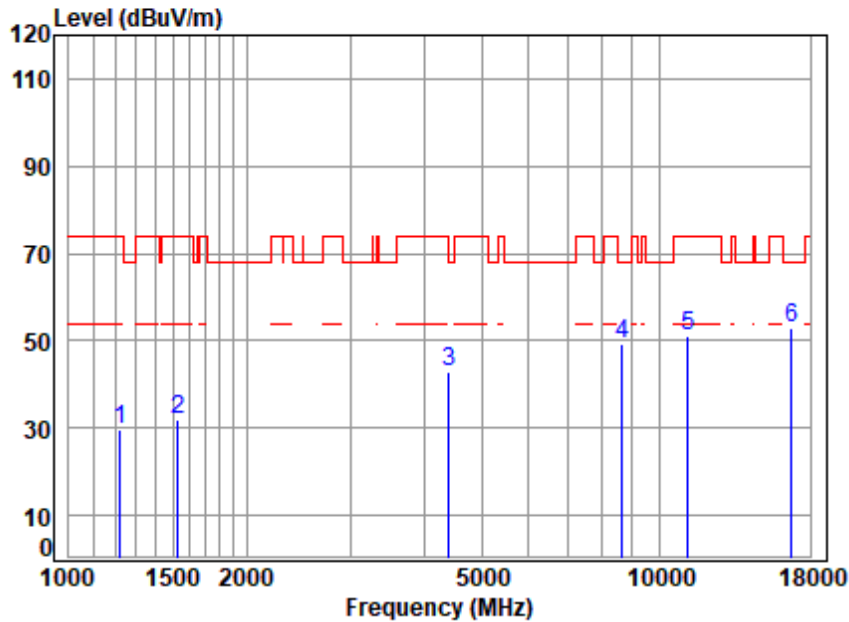
Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5580 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.67	25.08	38.35	39.72	30.12	68.20	-38.08	peak
2	1569.721	4.16	26.92	38.40	39.12	31.80	74.00	-42.20	peak
3	4430.628	7.08	34.43	35.77	36.27	42.01	68.20	-26.19	peak
4	8764.146	11.51	36.96	37.37	38.81	49.91	68.20	-18.29	peak
5	11160.000	12.93	37.62	37.79	38.08	50.84	74.00	-23.16	peak
6	p16740.000	14.51	42.78	37.49	33.49	53.29	68.20	-14.91	peak

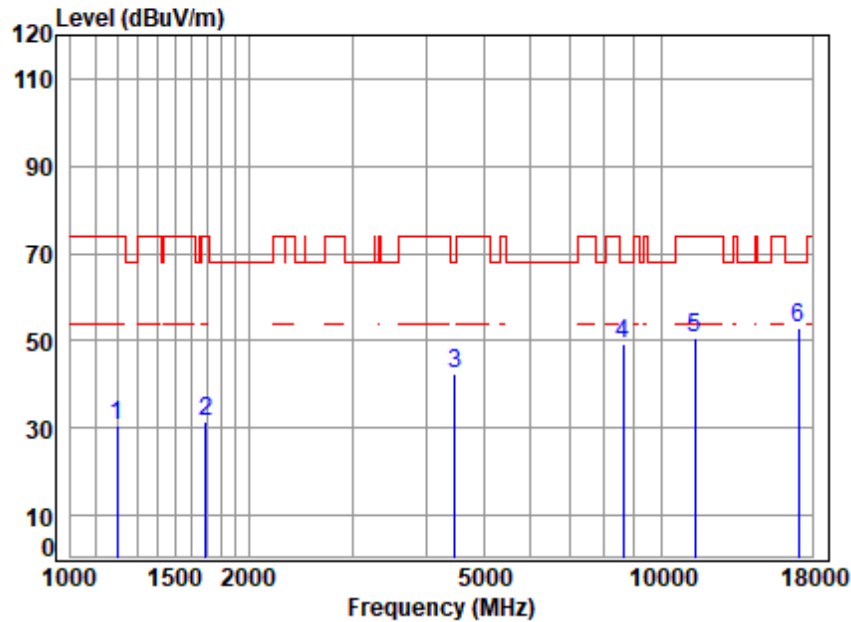
Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5580 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.247	3.62	24.74	38.34	39.74	29.76	74.00	-44.24	peak
2	1529.414	4.10	26.92	38.39	39.18	31.81	74.00	-42.19	peak
3	4405.090	7.06	34.74	35.79	36.93	42.94	68.20	-25.26	peak
4	8638.399	11.29	36.90	37.24	38.25	49.20	68.20	-19.00	peak
5	11160.000	12.93	37.62	37.79	38.25	51.01	74.00	-22.99	peak
6	p16740.000	14.51	42.78	37.49	33.22	53.02	68.20	-15.18	peak

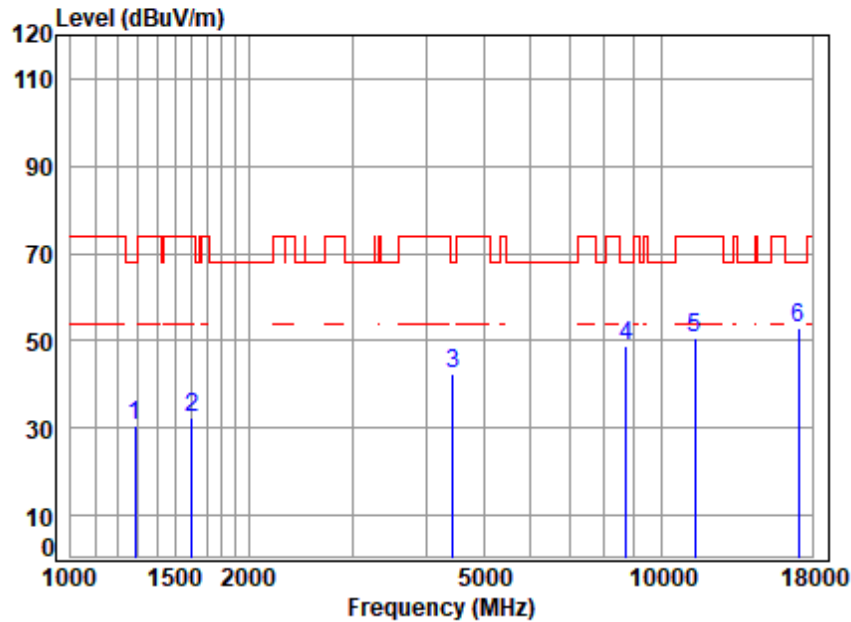
Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5700 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.726	3.58	24.40	38.34	41.16	30.80	74.00	-43.20	peak
2	1692.231	4.32	26.22	38.41	39.50	31.63	74.00	-42.37	peak
3	4469.214	7.10	33.97	35.75	36.99	42.31	68.20	-25.89	peak
4	8613.468	11.24	36.90	37.22	38.36	49.28	68.20	-18.92	peak
5	11400.000	12.98	37.70	37.72	37.67	50.63	74.00	-23.37	peak
6	p17100.000	14.62	43.10	37.53	32.55	52.74	68.20	-15.46	peak

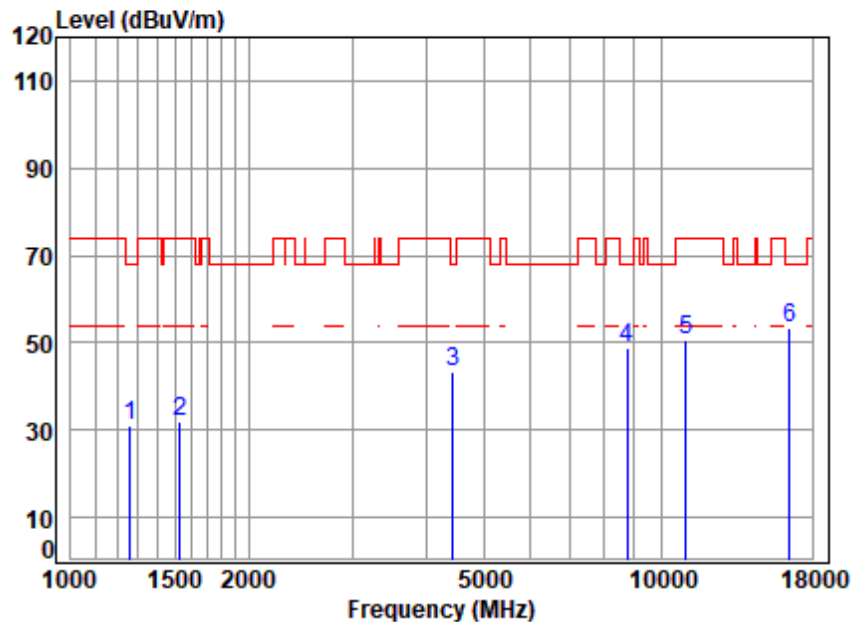
Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5700 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1285.904	3.73	24.88	38.35	40.39	30.65	68.20	-37.55	peak
2	1601.804	4.20	26.78	38.40	39.70	32.28	74.00	-41.72	peak
3	4443.453	7.09	34.28	35.77	36.85	42.45	68.20	-25.75	peak
4	8713.630	11.42	36.90	37.32	37.69	48.69	68.20	-19.51	peak
5	11400.000	12.98	37.70	37.72	37.73	50.69	74.00	-23.31	peak
6	p17100.000	14.62	43.10	37.53	32.84	53.03	68.20	-15.17	peak

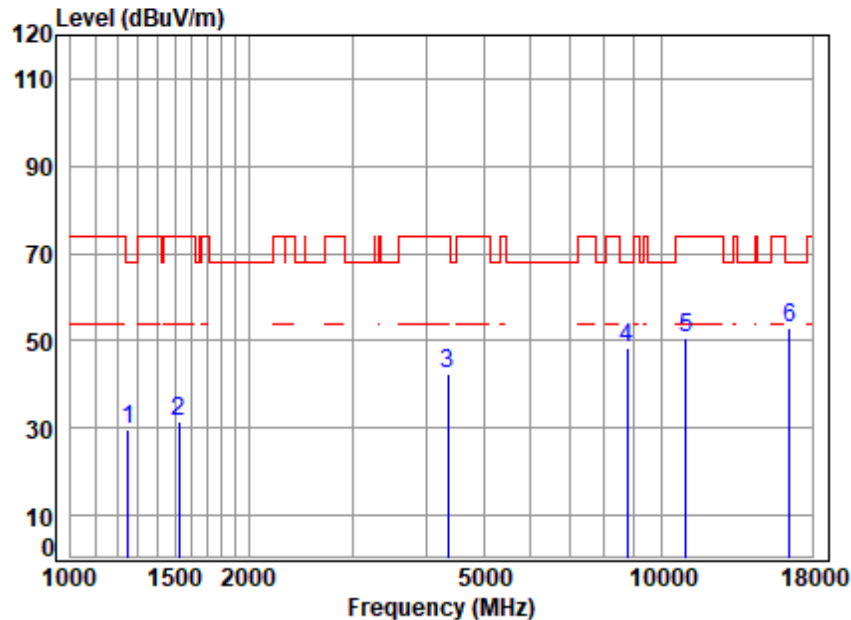
Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01176AT
 Mode : 5500 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	3.69	25.04	38.35	40.45	30.83	68.20	-37.37	peak
2	1529.414	4.10	26.92	38.39	39.53	32.16	74.00	-41.84	peak
3	4443.453	7.09	34.28	35.77	37.74	43.34	68.20	-24.86	peak
4	8764.146	11.51	36.96	37.37	37.93	49.03	68.20	-19.17	peak
5	11000.000	12.90	37.50	37.84	37.88	50.44	74.00	-23.56	peak
6	p16500.000	14.47	42.10	37.47	34.41	53.51	68.20	-14.69	peak

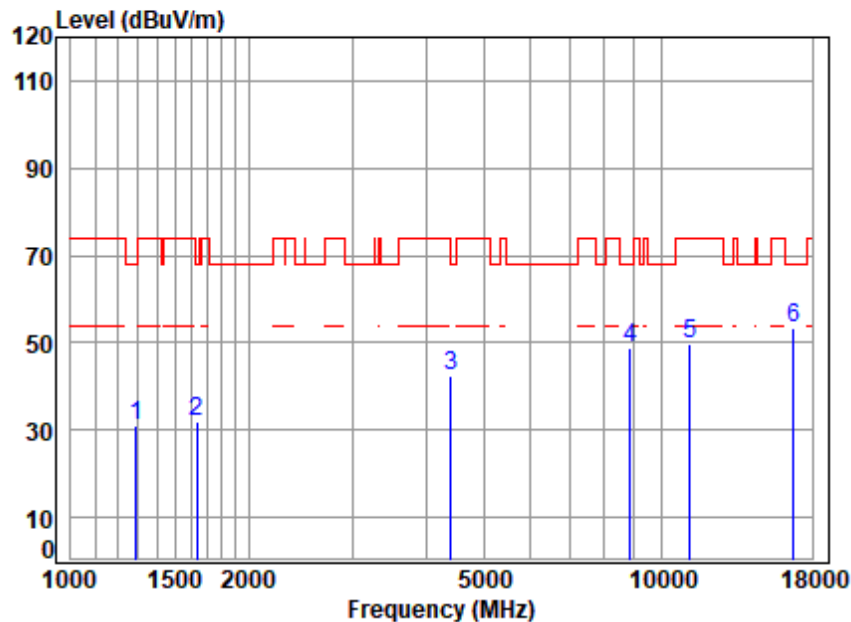
Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01176AT
 Mode : 5500 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.67	25.09	38.35	39.31	29.72	68.20	-38.48	peak
2	1525.000	4.10	26.90	38.39	39.08	31.69	74.00	-42.31	peak
3	4354.454	7.03	34.44	35.83	36.76	42.40	74.00	-31.60	peak
4	8738.852	11.47	36.90	37.35	37.34	48.36	68.20	-19.84	peak
5	11000.000	12.90	37.50	37.84	38.11	50.67	74.00	-23.33	peak
6	16500.000	14.47	42.10	37.47	33.70	52.80	68.20	-15.40	peak

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle

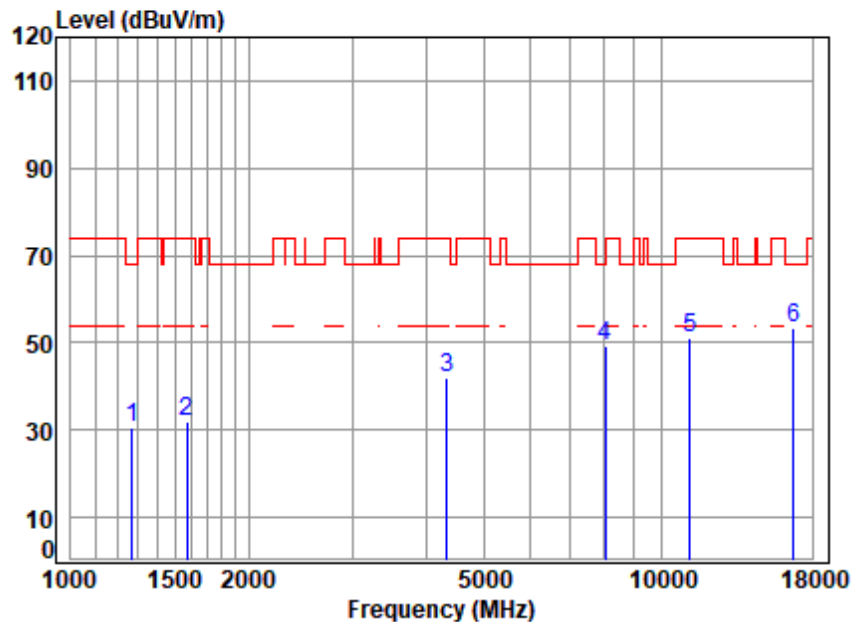


Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5580 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	3.74	24.86	38.36	40.82	31.06	68.20	-37.14	peak
2	1634.543	4.25	26.45	38.41	39.81	32.10	68.20	-36.10	peak
3	4405.090	7.06	34.74	35.79	36.45	42.46	68.20	-25.74	peak
4	8866.062	11.69	37.20	37.48	37.19	48.60	68.20	-19.60	peak
5	11160.000	12.93	37.62	37.79	36.83	49.59	74.00	-24.41	peak
6	p16740.000	14.51	42.78	37.49	33.53	53.33	68.20	-14.87	peak



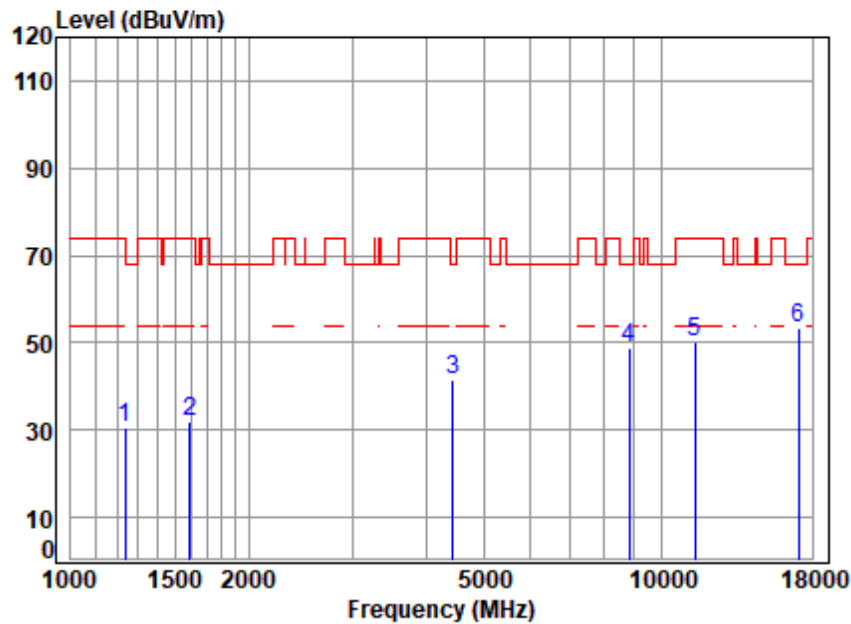
Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01176AT
 Mode : 5580 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1271.123	3.71	24.97	38.35	40.43	30.76	68.20	-37.44	peak
2	1574.265	4.17	26.90	38.40	39.49	32.16	74.00	-41.84	peak
3	4329.354	7.01	34.23	35.85	36.77	42.16	74.00	-31.84	peak
4	8036.214	10.17	36.40	36.60	39.10	49.07	74.00	-24.93	peak
5	11160.000	12.93	37.62	37.79	38.41	51.17	74.00	-22.83	peak
6	p16740.000	14.51	42.78	37.49	33.69	53.49	68.20	-14.71	peak

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

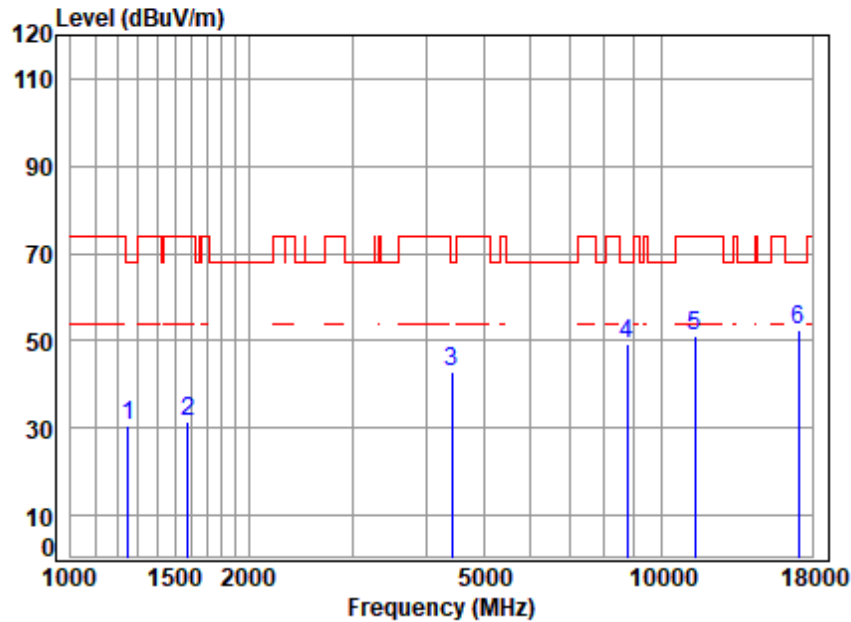


Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5700 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1234.909	3.64	24.89	38.35	40.45	30.63	74.00	-43.37	peak
2	1592.571	4.19	26.83	38.40	39.32	31.94	74.00	-42.06	peak
3	4430.628	7.08	34.43	35.77	35.89	41.63	68.20	-26.57	peak
4	8814.957	11.60	37.13	37.42	37.48	48.79	68.20	-19.41	peak
5	11400.000	12.98	37.70	37.72	37.41	50.37	74.00	-23.63	peak
6	p17100.000	14.62	43.10	37.53	33.08	53.27	68.20	-14.93	peak



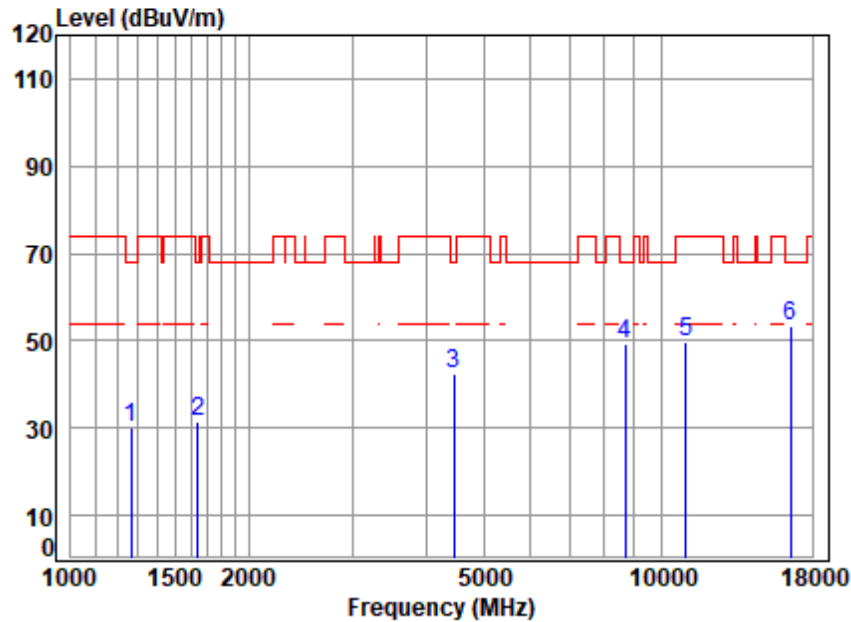
Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01176AT
 Mode : 5700 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.67	25.08	38.35	40.28	30.68	68.20	-37.52	peak
2	1578.822	4.17	26.88	38.40	38.96	31.61	74.00	-42.39	peak
3	4417.841	7.07	34.59	35.78	36.82	42.70	68.20	-25.50	peak
4	8738.852	11.47	36.90	37.35	38.39	49.41	68.20	-18.79	peak
5	11400.000	12.98	37.70	37.72	38.23	51.19	74.00	-22.81	peak
6	17100.000	14.62	43.10	37.53	32.48	52.67	68.20	-15.53	peak

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

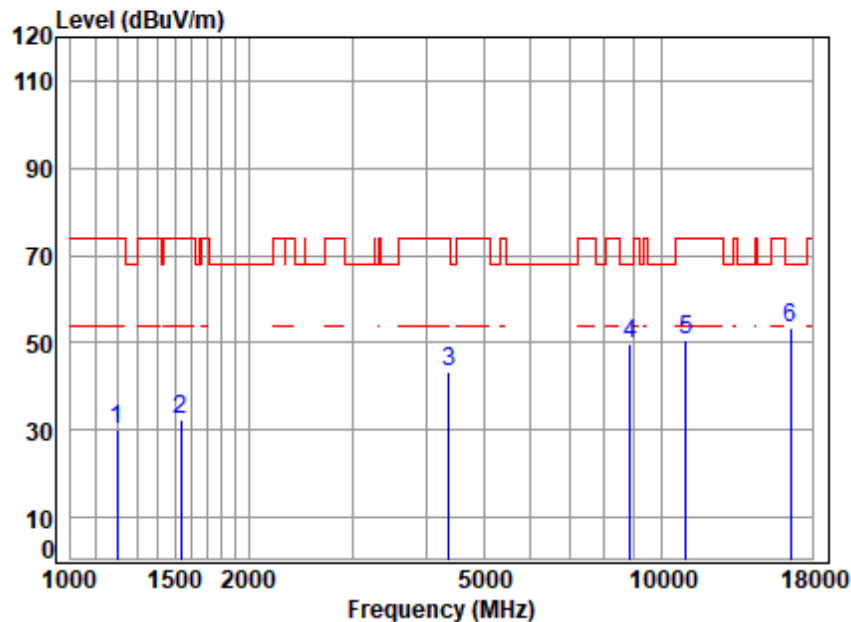


Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5510 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	3.69	25.02	38.35	39.84	30.20	68.20	-38.00	peak
2	1639.274	4.25	26.41	38.41	39.40	31.65	68.20	-36.55	peak
3	4456.315	7.09	34.12	35.76	36.77	42.22	68.20	-25.98	peak
4	8688.480	11.38	36.90	37.30	38.50	49.48	68.20	-18.72	peak
5	11020.000	12.90	37.50	37.83	36.97	49.54	74.00	-24.46	peak
6	p16530.000	14.48	42.16	37.47	34.11	53.28	68.20	-14.92	peak



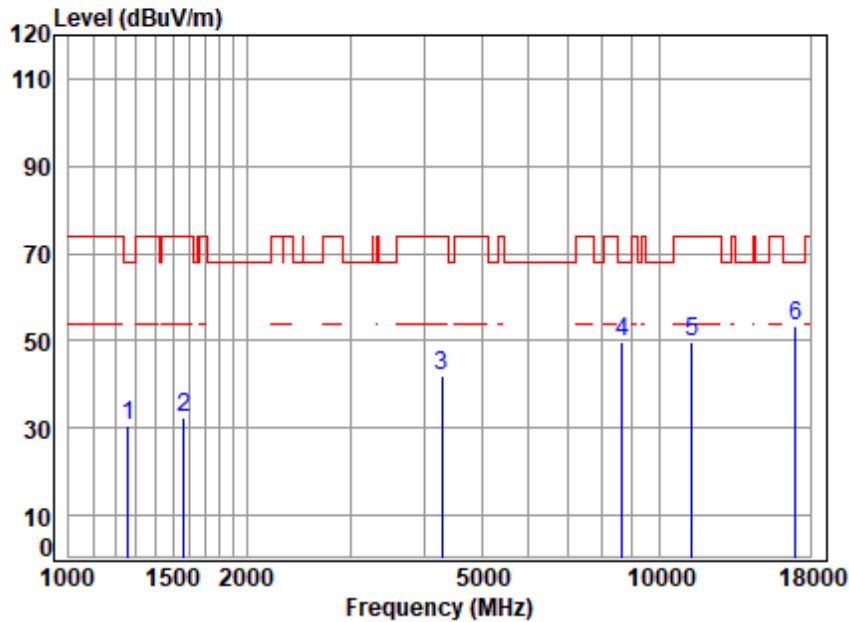
Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01176AT
 Mode : 5510 TX RSE
 Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.726	3.58	24.40	38.34	40.67	30.31	74.00	-43.69	peak
2	1533.841	4.11	26.94	38.39	39.52	32.18	74.00	-41.82	peak
3	4367.058	7.04	34.54	35.82	37.36	43.12	74.00	-30.88	peak
4	8866.062	11.69	37.20	37.48	38.32	49.73	68.20	-18.47	peak
5	11020.000	12.90	37.50	37.83	38.18	50.75	74.00	-23.25	peak
6	16530.000	14.48	42.16	37.47	34.21	53.38	68.20	-14.82	peak

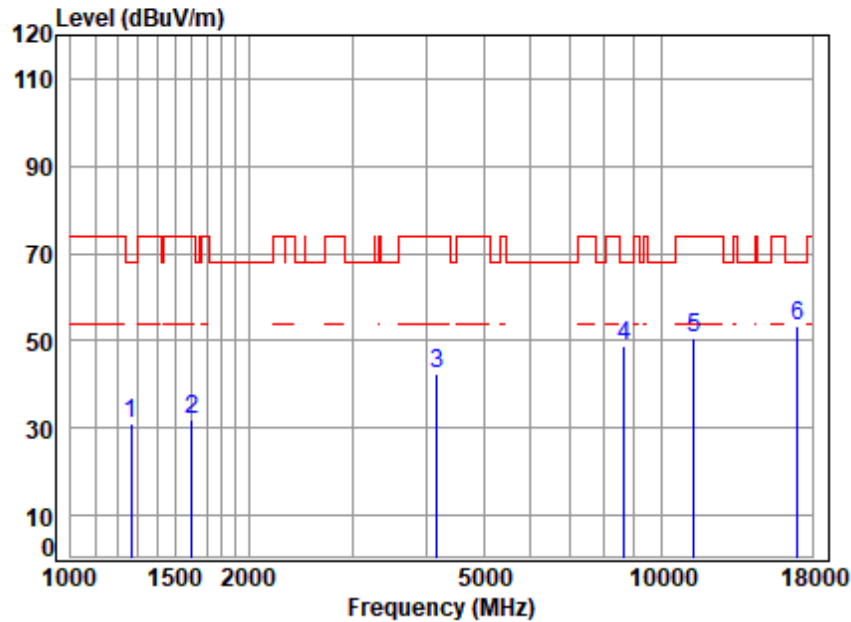
Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5670 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	3.69	25.04	38.35	40.34	30.72	68.20	-37.48	peak
2	1569.721	4.16	26.92	38.40	39.67	32.35	74.00	-41.65	peak
3	4291.977	6.99	33.97	35.88	36.90	41.98	74.00	-32.02	peak
4	8638.399	11.29	36.90	37.24	38.64	49.59	68.20	-18.61	peak
5	11340.000	12.97	37.76	37.74	36.90	49.89	74.00	-24.11	peak
6	17010.000	14.57	43.10	37.51	33.20	53.36	68.20	-14.84	peak

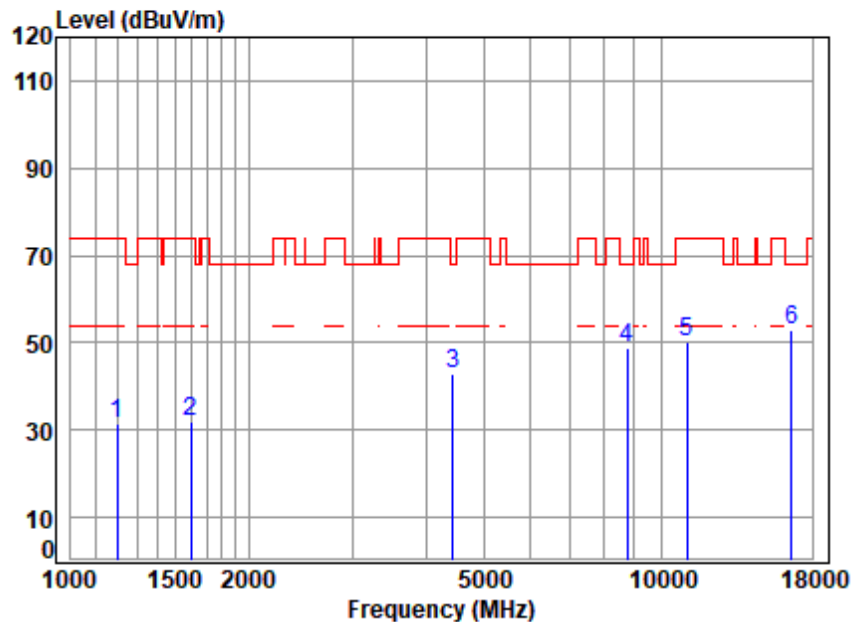
Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5670 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1267.454	3.70	25.00	38.35	40.62	30.97	68.20	-37.23	peak
2	1606.441	4.21	26.74	38.40	39.22	31.77	74.00	-42.23	peak
3	4169.698	6.90	33.80	35.97	37.48	42.21	74.00	-31.79	peak
4	8663.404	11.33	36.90	37.27	37.96	48.92	68.20	-19.28	peak
5	11340.000	12.97	37.76	37.74	37.57	50.56	74.00	-23.44	peak
6	17010.000	14.57	43.10	37.51	33.20	53.36	68.20	-14.84	peak

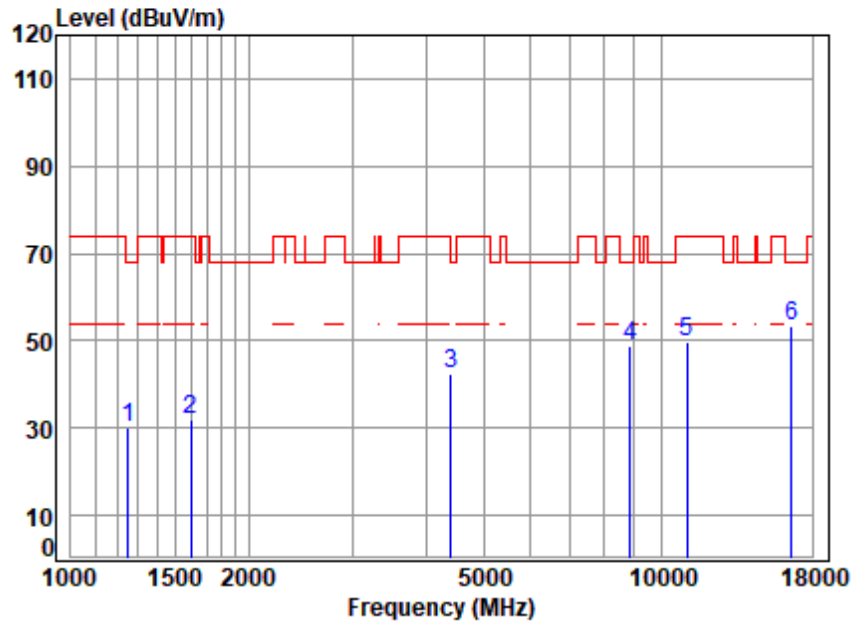
Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5530 TX RSE
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	3.58	24.36	38.34	41.73	31.33	74.00	-42.67	peak
2	1597.181	4.20	26.81	38.40	39.35	31.96	74.00	-42.04	peak
3	4430.628	7.08	34.43	35.77	37.16	42.90	68.20	-25.30	peak
4	8764.146	11.51	36.96	37.37	37.82	48.92	68.20	-19.28	peak
5	11060.000	12.91	37.50	37.82	37.73	50.32	74.00	-23.68	peak
6	p16590.000	14.49	42.28	37.47	33.79	53.09	68.20	-15.11	peak

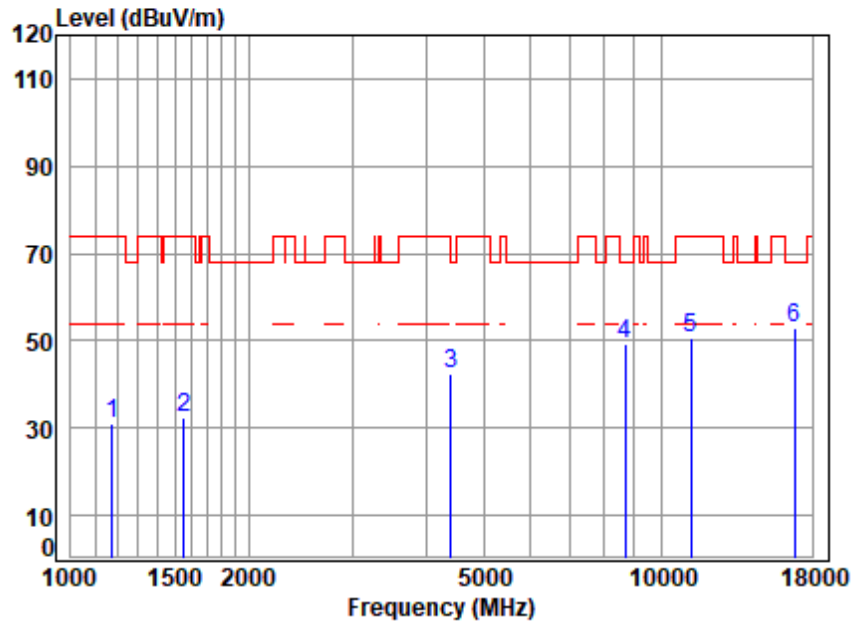
Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5530 TX RSE
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.67	25.09	38.35	39.86	30.27	68.20	-37.93	peak
2	1597.181	4.20	26.81	38.40	39.12	31.73	74.00	-42.27	peak
3	4405.090	7.06	34.74	35.79	36.45	42.46	68.20	-25.74	peak
4	8866.062	11.69	37.20	37.48	37.62	49.03	68.20	-19.17	peak
5	11060.000	12.91	37.50	37.82	36.99	49.58	74.00	-24.42	peak
6	p16590.000	14.49	42.28	37.47	33.88	53.18	68.20	-15.02	peak

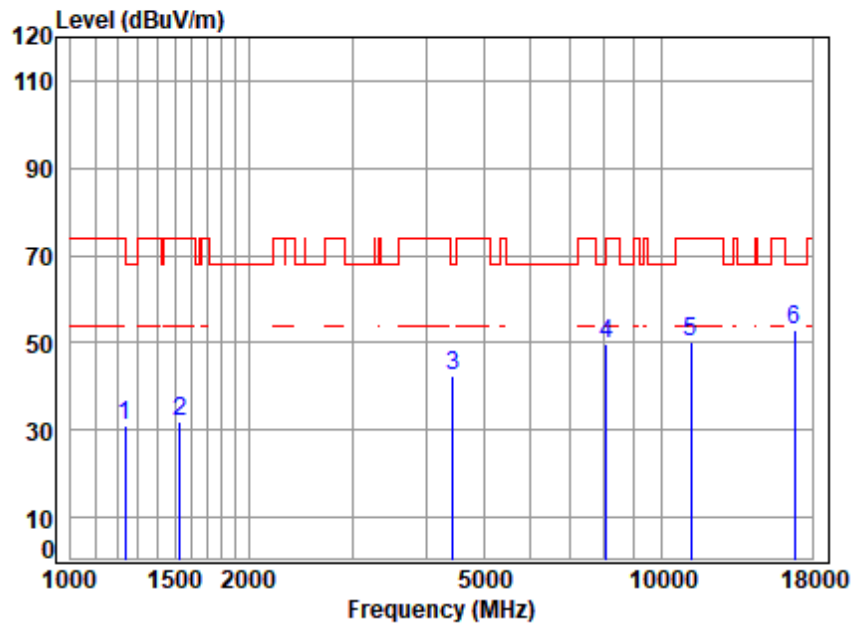
Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01176AT
 Mode : 5610 TX RSE
 Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1175.697	3.54	24.16	38.34	41.53	30.89	74.00	-43.11	peak
2	1556.169	4.14	26.98	38.40	39.66	32.38	74.00	-41.62	peak
3	4405.090	7.06	34.74	35.79	36.20	42.21	68.20	-25.99	peak
4	8688.480	11.38	36.90	37.30	38.27	49.25	68.20	-18.95	peak
5	11220.000	12.94	37.72	37.77	37.86	50.75	74.00	-23.25	peak
6	16830.000	14.53	42.99	37.50	32.98	53.00	68.20	-15.20	peak

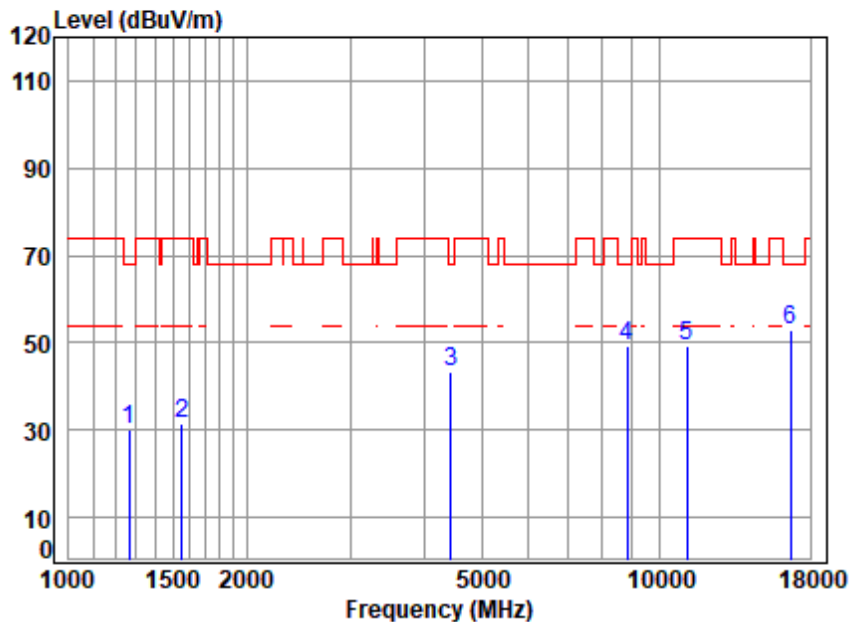
Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5610 TX RSE
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1234.909	3.64	24.89	38.35	40.67	30.85	74.00	-43.15	peak
2	1529.414	4.10	26.92	38.39	39.49	32.12	74.00	-41.88	peak
3	4430.628	7.08	34.43	35.77	36.57	42.31	68.20	-25.89	peak
4	8082.804	10.26	36.47	36.65	39.62	49.70	74.00	-24.30	peak
5	11220.000	12.94	37.72	37.77	37.42	50.31	74.00	-23.69	peak
6	p16830.000	14.53	42.99	37.50	32.85	52.87	68.20	-15.33	peak

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01176AT
 Mode : 5570 TX RSE
 Note : 5G WIFI 11AC160

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1267.454	3.70	25.00	38.35	39.71	30.06	68.20	-38.14	peak
2	1551.677	4.13	26.99	38.40	38.55	31.27	74.00	-42.73	peak
3	4430.628	7.08	34.43	35.77	37.73	43.47	68.20	-24.73	peak
4	8814.957	11.60	37.13	37.42	37.79	49.10	68.20	-19.10	peak
5	11140.000	12.93	37.58	37.80	36.78	49.49	74.00	-24.51	peak
6	16710.000	14.51	42.72	37.48	33.14	52.89	68.20	-15.31	peak

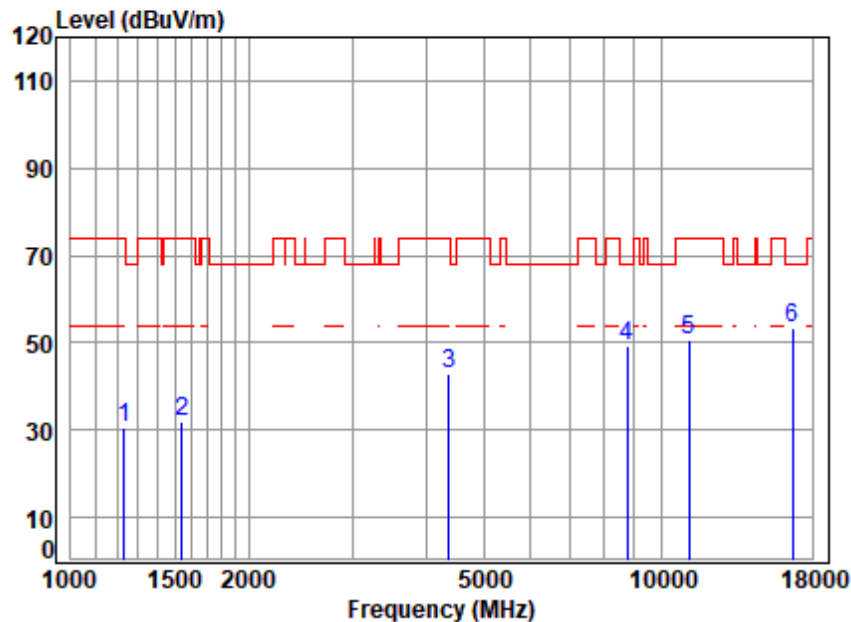
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5570 TX RSE
Note : 5G WIFI 11AC160

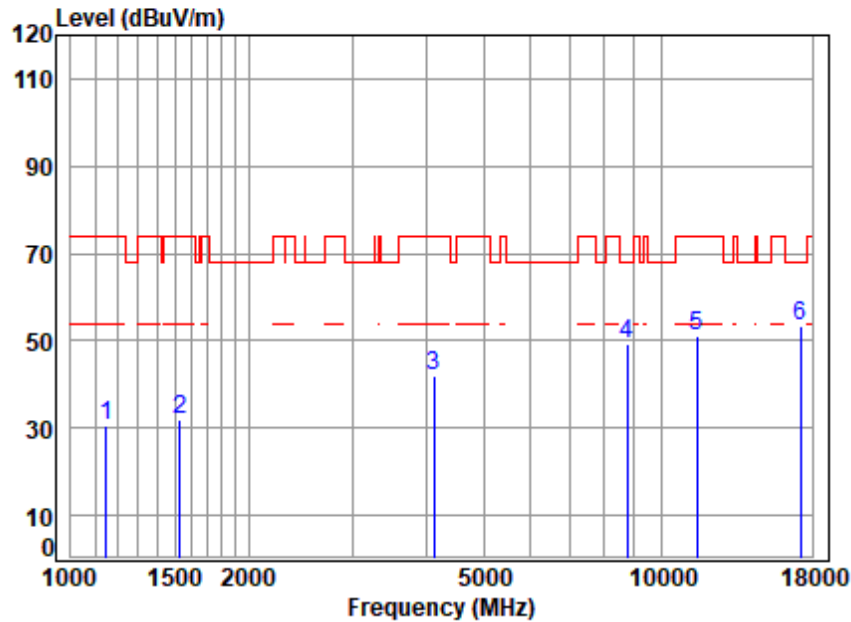
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1231.345	3.64	24.84	38.35	40.36	30.49	74.00	-43.51	peak
2	1542.733	4.12	26.97	38.39	39.16	31.86	74.00	-42.14	peak
3	4367.058	7.04	34.54	35.82	37.21	42.97	74.00	-31.03	peak
4	8764.146	11.51	36.96	37.37	38.25	49.35	68.20	-18.85	peak
5	11140.000	12.93	37.58	37.80	37.99	50.70	74.00	-23.30	peak
6	p16710.000	14.51	42.72	37.48	33.68	53.43	68.20	-14.77	peak



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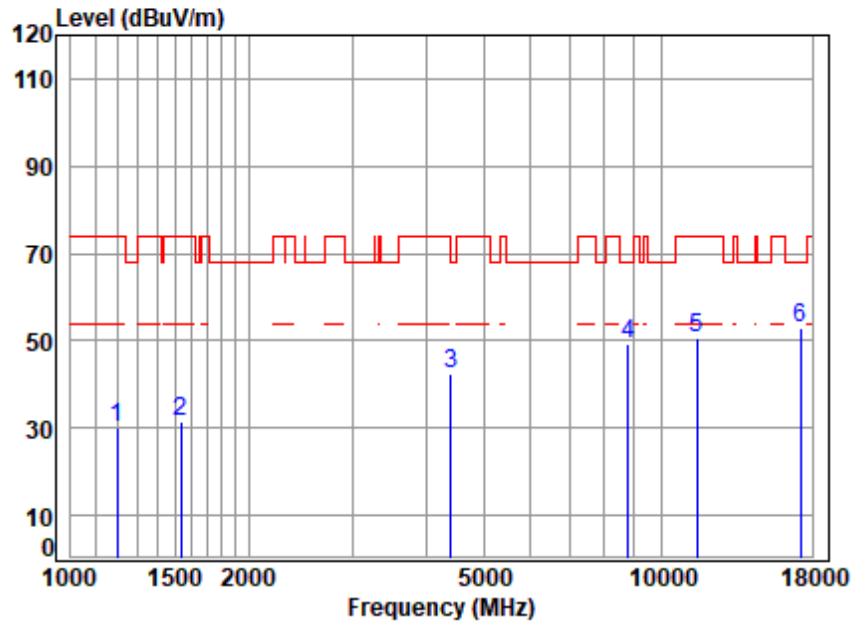
Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01176AT
 Mode : 5745 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1148.823	3.49	23.90	38.33	41.38	30.44	74.00	-43.56	peak
2	1529.414	4.10	26.92	38.39	39.39	32.02	74.00	-41.98	peak
3	4121.768	6.87	33.35	36.00	37.82	42.04	74.00	-31.96	peak
4	8764.146	11.51	36.96	37.37	38.13	49.23	68.20	-18.97	peak
5	11490.000	13.00	37.79	37.69	37.95	51.05	74.00	-22.95	peak
6	17235.000	14.70	43.03	37.55	33.20	53.38	68.20	-14.82	peak

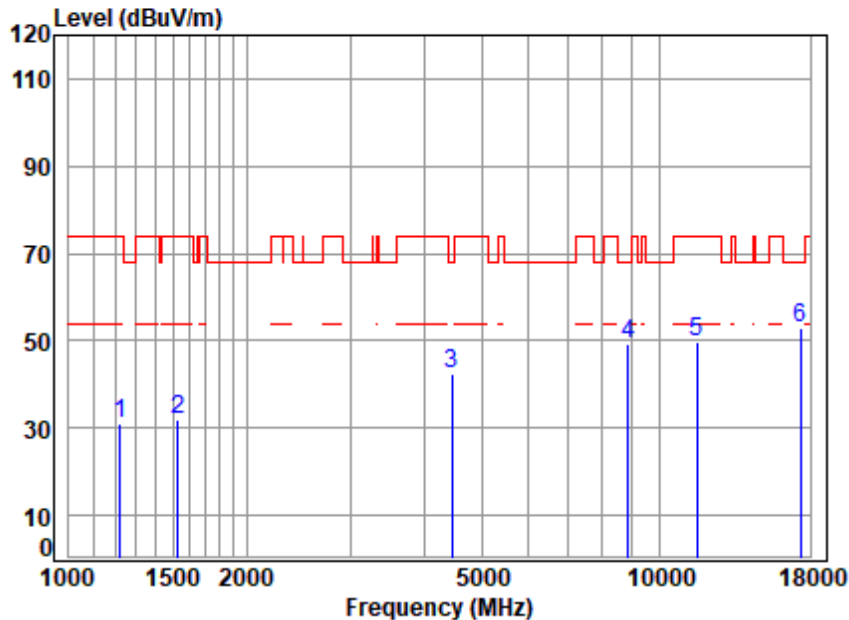
Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01176AT
 Mode : 5745 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	3.58	24.36	38.34	40.38	29.98	74.00	-44.02	peak
2	1533.841	4.11	26.94	38.39	38.84	31.50	74.00	-42.50	peak
3	4405.090	7.06	34.74	35.79	36.40	42.41	68.20	-25.79	peak
4	8789.516	11.55	37.06	37.40	38.20	49.41	68.20	-18.79	peak
5	11490.000	13.00	37.79	37.69	37.43	50.53	74.00	-23.47	peak
6	17235.000	14.70	43.03	37.55	32.77	52.95	68.20	-15.25	peak

Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5785 TX RSE
Note : 5G WIFI 11A

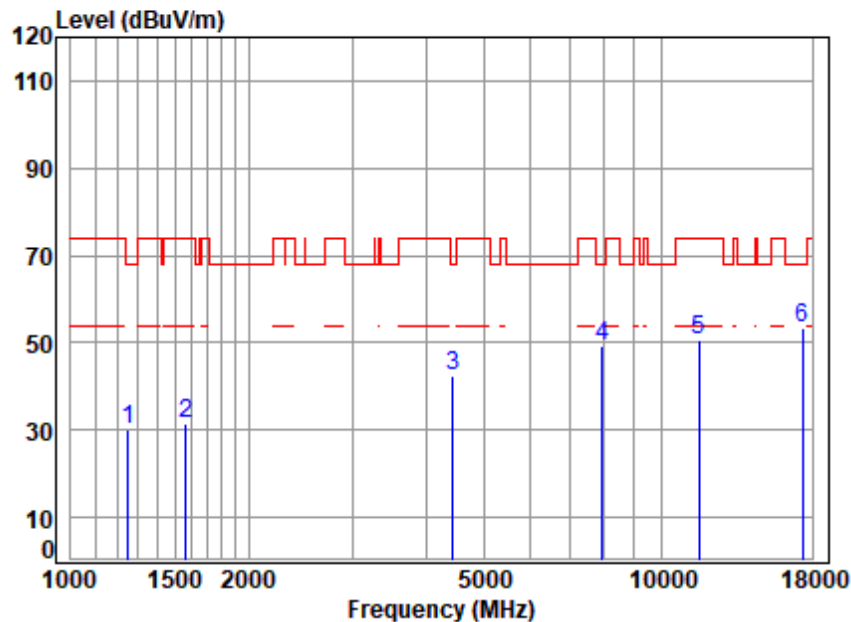
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.247	3.62	24.74	38.34	41.22	31.24	74.00	-42.76	peak
2	1529.414	4.10	26.92	38.39	39.12	31.75	74.00	-42.25	peak
3	4456.315	7.09	34.12	35.76	37.18	42.63	68.20	-25.57	peak
4	8866.062	11.69	37.20	37.48	38.06	49.47	68.20	-18.73	peak
5	11570.000	13.01	37.73	37.67	36.88	49.95	74.00	-24.05	peak
6	17355.000	14.77	43.26	37.56	32.48	52.95	68.20	-15.25	peak



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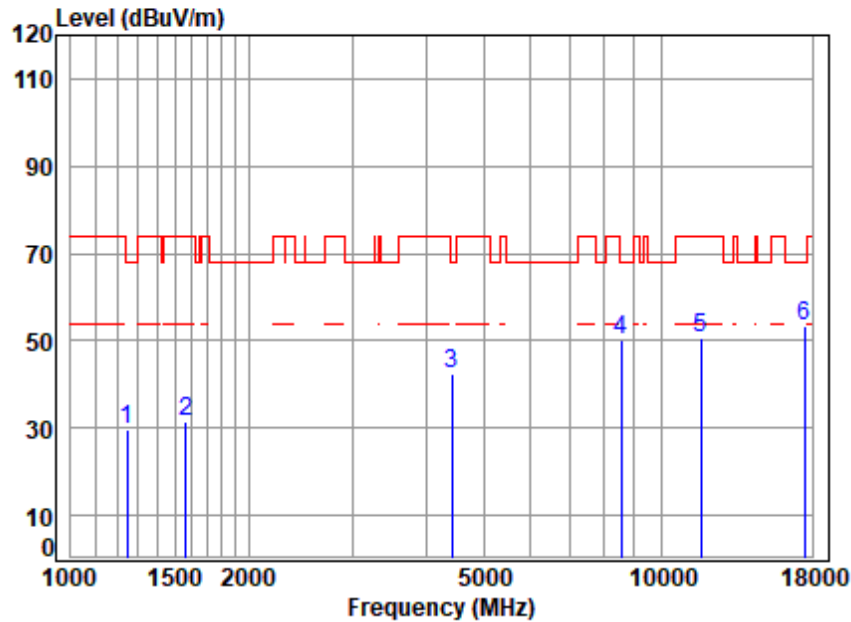
Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5785 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.67	25.08	38.35	39.78	30.18	68.20	-38.02	peak
2	1565.191	4.15	26.94	38.40	38.97	31.66	74.00	-42.34	peak
3	4430.628	7.08	34.43	35.77	36.54	42.28	68.20	-25.92	peak
4	7943.838	10.04	36.41	36.51	39.56	49.50	68.20	-18.70	peak
5	11570.000	13.01	37.73	37.67	37.71	50.78	74.00	-23.22	peak
6	17355.000	14.77	43.26	37.56	32.81	53.28	68.20	-14.92	peak

Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5825 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	3.66	25.04	38.35	39.32	29.67	68.20	-38.53	peak
2	1569.721	4.16	26.92	38.40	38.83	31.51	74.00	-42.49	peak
3	4417.841	7.07	34.59	35.78	36.56	42.44	68.20	-25.76	peak
4	8563.818	11.15	36.83	37.17	39.35	50.16	68.20	-18.04	peak
5	11650.000	13.03	37.80	37.65	37.46	50.64	74.00	-23.36	peak
6	17475.000	14.84	43.40	37.58	32.62	53.28	68.20	-14.92	peak

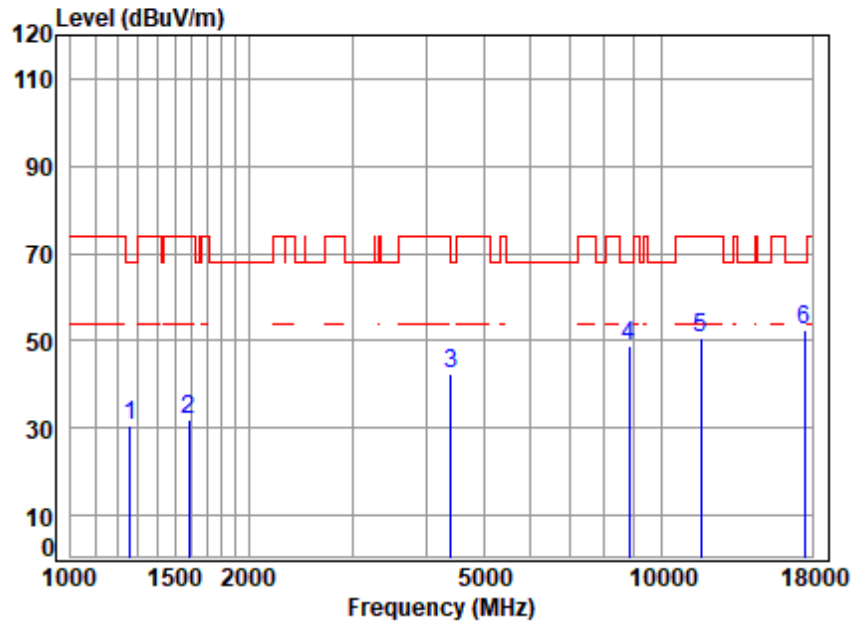
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Report No.: SZCR240400117605

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Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5825 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	3.69	25.04	38.35	40.18	30.56	68.20	-37.64	peak
2	1587.975	4.18	26.85	38.40	39.09	31.72	74.00	-42.28	peak
3	4405.090	7.06	34.74	35.79	36.64	42.65	68.20	-25.55	peak
4	8814.957	11.60	37.13	37.42	37.61	48.92	68.20	-19.28	peak
5	11650.000	13.03	37.80	37.65	37.40	50.58	74.00	-23.42	peak
6	p17475.000	14.84	43.40	37.58	31.83	52.49	68.20	-15.71	peak



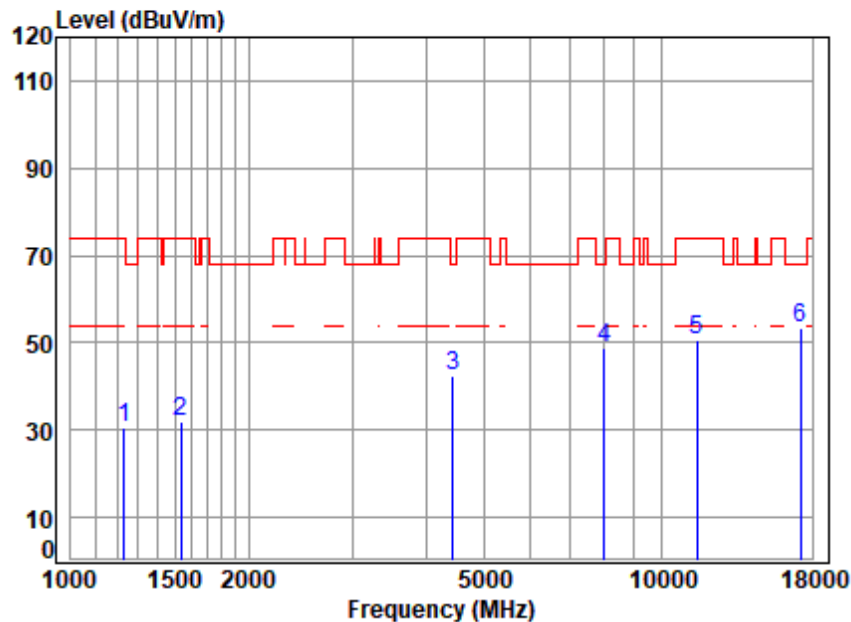
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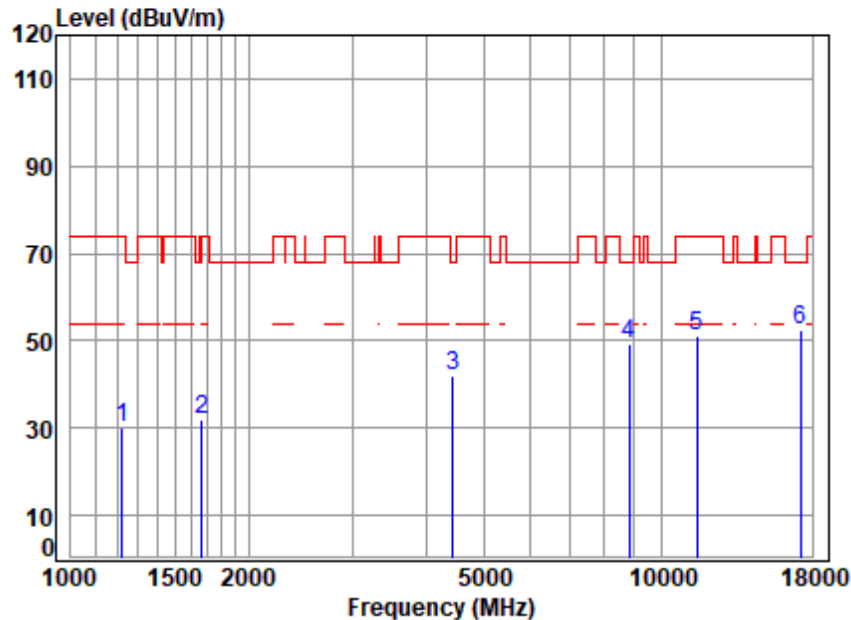
Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5745 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1231.345	3.64	24.84	38.35	40.48	30.61	74.00	-43.39	peak
2	1538.281	4.12	26.95	38.39	39.23	31.91	74.00	-42.09	peak
3	4430.628	7.08	34.43	35.77	36.87	42.61	68.20	-25.59	peak
4	8013.020	10.13	36.40	36.57	39.02	48.98	68.20	-19.22	peak
5	11490.000	13.00	37.79	37.69	37.62	50.72	74.00	-23.28	peak
6	17235.000	14.70	43.03	37.55	32.99	53.17	68.20	-15.03	peak

Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

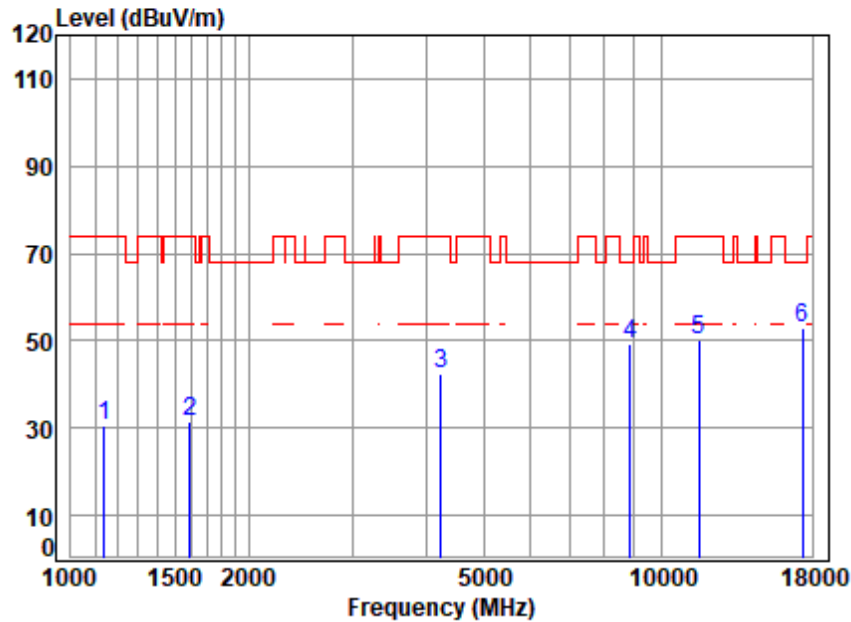


Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5745 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.247	3.62	24.74	38.34	40.29	30.31	74.00	-43.69	peak
2	1667.951	4.29	26.26	38.41	39.71	31.85	74.00	-42.15	peak
3	4443.453	7.09	34.28	35.77	36.44	42.04	68.20	-26.16	peak
4	8814.957	11.60	37.13	37.42	38.09	49.40	68.20	-18.80	peak
5	11490.000	13.00	37.79	37.69	37.78	50.88	74.00	-23.12	peak
6	17235.000	14.70	43.03	37.55	32.51	52.69	68.20	-15.51	peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

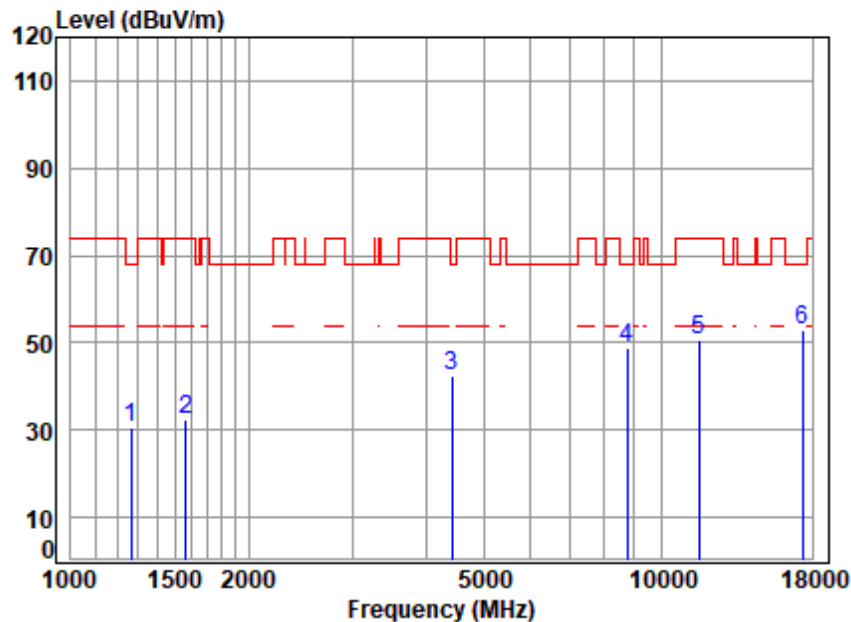


Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01176AT
 Mode : 5785 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	3.47	23.86	38.33	41.54	30.54	74.00	-43.46	peak
2	1592.571	4.19	26.83	38.40	38.81	31.43	74.00	-42.57	peak
3	4230.396	6.94	33.80	35.92	37.52	42.34	74.00	-31.66	peak
4	8840.473	11.64	37.18	37.45	37.80	49.17	68.20	-19.03	peak
5	11570.000	13.01	37.73	37.67	37.17	50.24	74.00	-23.76	peak
6	17355.000	14.77	43.26	37.56	32.55	53.02	68.20	-15.18	peak



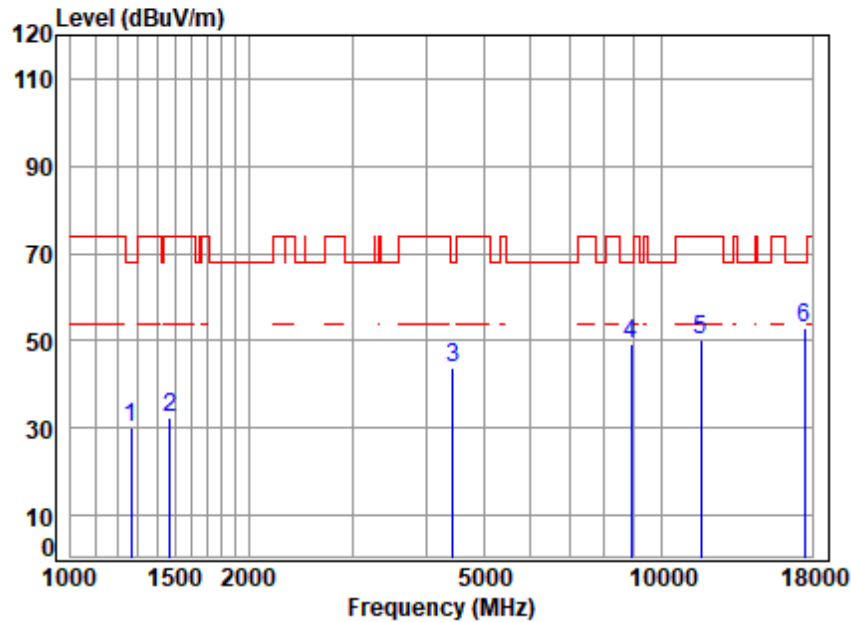
Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5785 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	3.69	25.02	38.35	40.43	30.79	68.20	-37.41	peak
2	1565.191	4.15	26.94	38.40	39.71	32.40	74.00	-41.60	peak
3	4417.841	7.07	34.59	35.78	36.40	42.28	68.20	-25.92	peak
4	8738.852	11.47	36.90	37.35	38.00	49.02	68.20	-19.18	peak
5	11570.000	13.01	37.73	37.67	37.55	50.62	74.00	-23.38	peak
6	17355.000	14.77	43.26	37.56	32.44	52.91	68.20	-15.29	peak

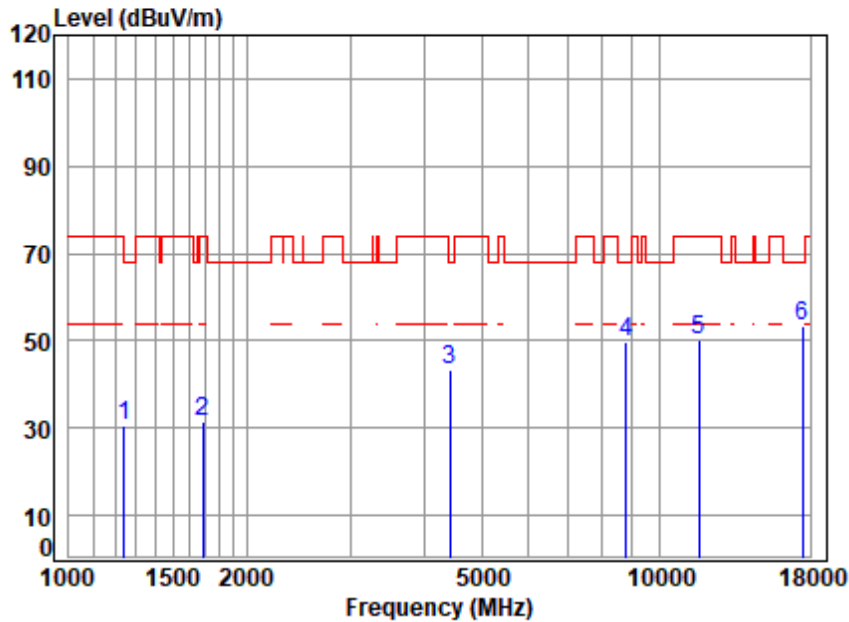
Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01176AT
 Mode : 5825 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	3.69	25.02	38.35	39.66	30.02	68.20	-38.18	peak
2	1473.013	4.02	26.04	38.38	40.87	32.55	74.00	-41.45	peak
3	4430.628	7.08	34.43	35.77	37.87	43.61	68.20	-24.59	peak
4	8891.725	11.73	37.20	37.50	37.65	49.08	68.20	-19.12	peak
5	11650.000	13.03	37.80	37.65	36.88	50.06	74.00	-23.94	peak
6	17475.000	14.84	43.40	37.58	32.17	52.83	68.20	-15.37	peak

Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5825 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1242.068	3.66	24.99	38.35	40.31	30.61	68.20	-37.59	peak
2	1687.347	4.31	26.23	38.41	39.47	31.60	74.00	-42.40	peak
3	4417.841	7.07	34.59	35.78	37.24	43.12	68.20	-25.08	peak
4	8789.516	11.55	37.06	37.40	38.45	49.66	68.20	-18.54	peak
5	11650.000	13.03	37.80	37.65	37.14	50.32	74.00	-23.68	peak
6	p17475.000	14.84	43.40	37.58	32.51	53.17	68.20	-15.03	peak

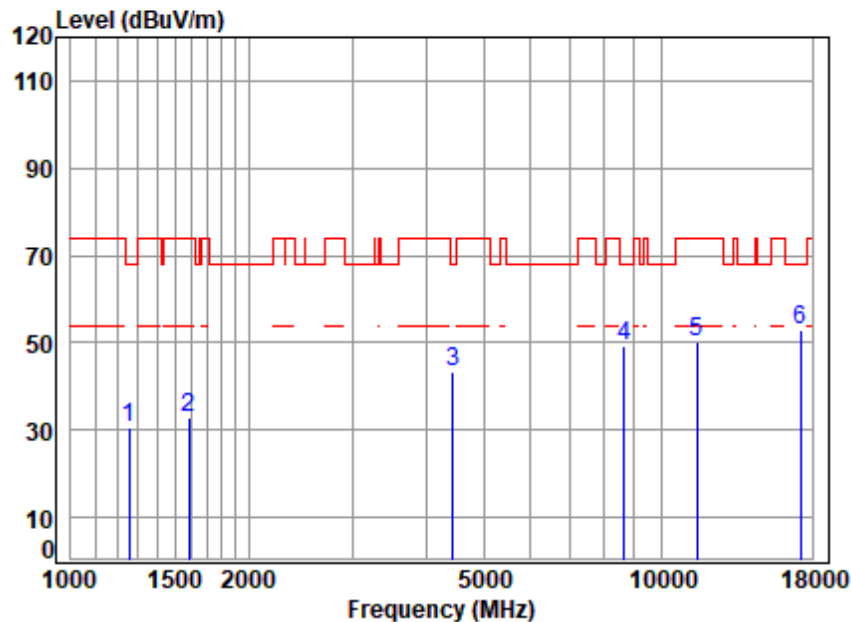
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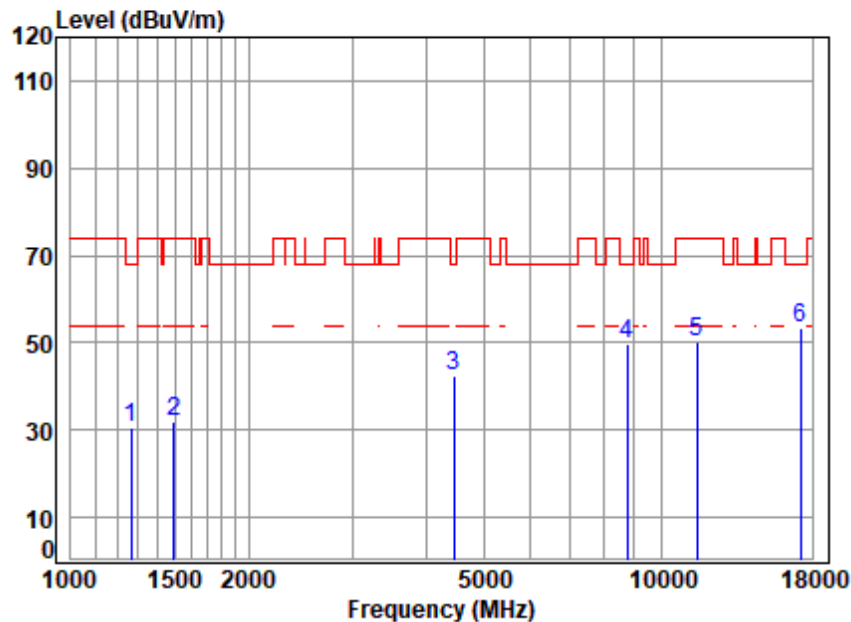
Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01176AT
 Mode : 5745 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	3.68	25.06	38.35	40.24	30.63	68.20	-37.57	peak
2	1583.392	4.18	26.87	38.40	40.19	32.84	74.00	-41.16	peak
3	4430.628	7.08	34.43	35.77	37.55	43.29	68.20	-24.91	peak
4	8638.399	11.29	36.90	37.24	38.23	49.18	68.20	-19.02	peak
5	11490.000	13.00	37.79	37.69	37.23	50.33	74.00	-23.67	peak
6	17235.000	14.70	43.03	37.55	32.63	52.81	68.20	-15.39	peak

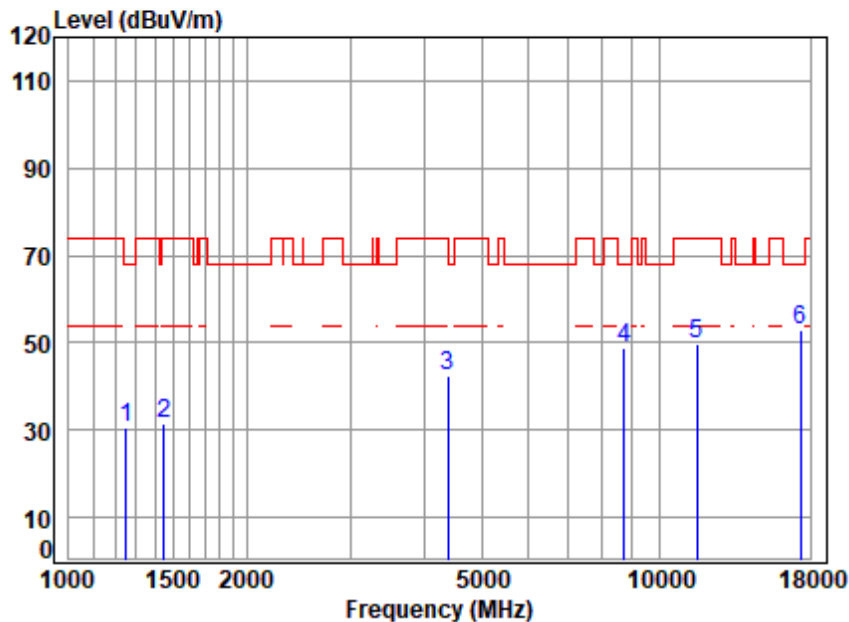
Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01176AT
 Mode : 5745 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	3.69	25.02	38.35	40.40	30.76	68.20	-37.44	peak
2	1494.455	4.05	26.64	38.39	39.51	31.81	74.00	-42.19	peak
3	4456.315	7.09	34.12	35.76	36.94	42.39	68.20	-25.81	peak
4	8738.852	11.47	36.90	37.35	38.53	49.55	68.20	-18.65	peak
5	11490.000	13.00	37.79	37.69	37.24	50.34	74.00	-23.66	peak
6	17235.000	14.70	43.03	37.55	33.20	53.38	68.20	-14.82	peak

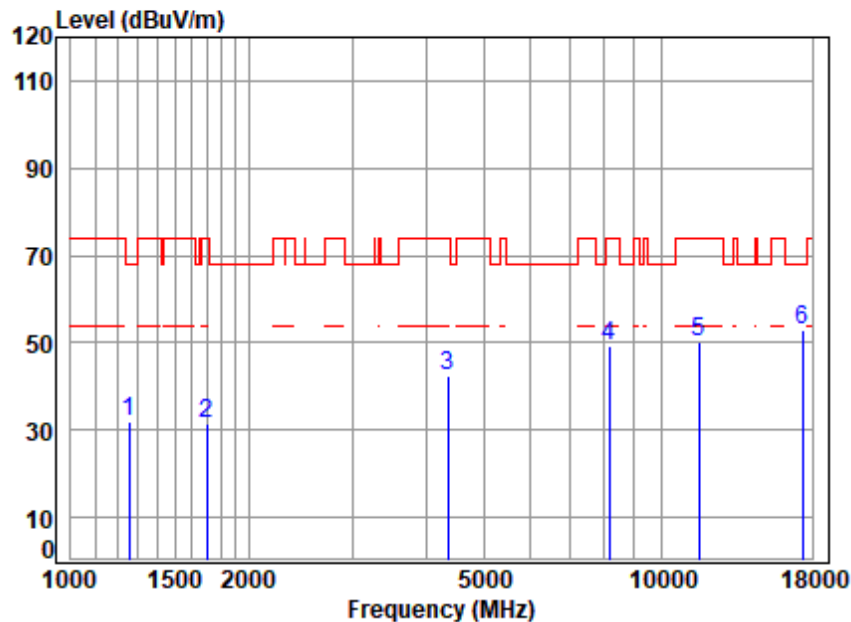
Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01176AT
 Mode : 5785 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.67	25.08	38.35	40.24	30.64	68.20	-37.56	peak
2	1451.878	3.99	25.45	38.38	40.47	31.53	74.00	-42.47	peak
3	4392.376	7.05	34.74	35.80	36.27	42.26	74.00	-31.74	peak
4	8713.630	11.42	36.90	37.32	37.93	48.93	68.20	-19.27	peak
5	11570.000	13.01	37.73	37.67	36.85	49.92	74.00	-24.08	peak
6	17355.000	14.77	43.26	37.56	32.34	52.81	68.20	-15.39	peak

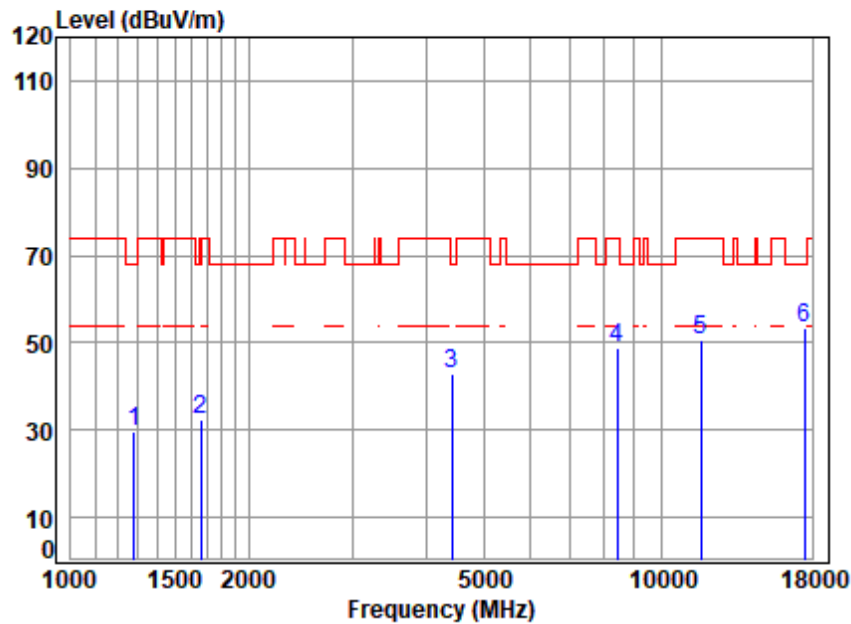
Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01176AT
 Mode : 5785 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	3.68	25.06	38.35	41.59	31.98	68.20	-36.22	peak
2	1702.042	4.33	26.22	38.42	39.58	31.71	74.00	-42.29	peak
3	4354.454	7.03	34.44	35.83	36.88	42.52	74.00	-31.48	peak
4	8176.795	10.44	36.55	36.75	38.99	49.23	74.00	-24.77	peak
5	11570.000	13.01	37.73	37.67	37.15	50.22	74.00	-23.78	peak
6	17355.000	14.77	43.26	37.56	32.52	52.99	68.20	-15.21	peak

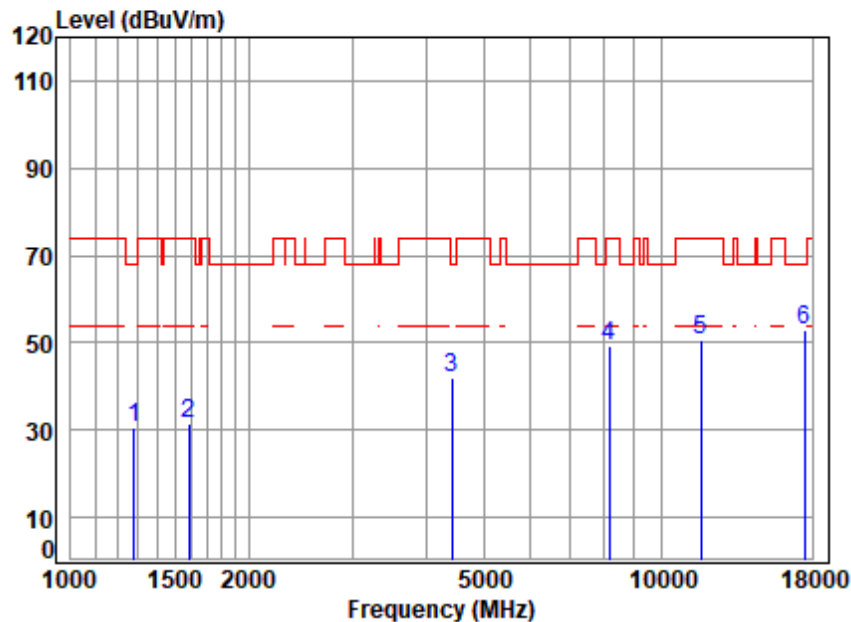
Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5825 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	3.72	24.91	38.35	39.51	29.79	68.20	-38.41	peak
2	1658.337	4.28	26.28	38.41	40.12	32.27	68.20	-35.93	peak
3	4417.841	7.07	34.59	35.78	36.94	42.82	68.20	-25.38	peak
4	8416.584	10.88	36.67	37.01	38.28	48.82	74.00	-25.18	peak
5	11650.000	13.03	37.80	37.65	37.55	50.73	74.00	-23.27	peak
6	p17475.000	14.84	43.40	37.58	32.91	53.57	68.20	-14.63	peak

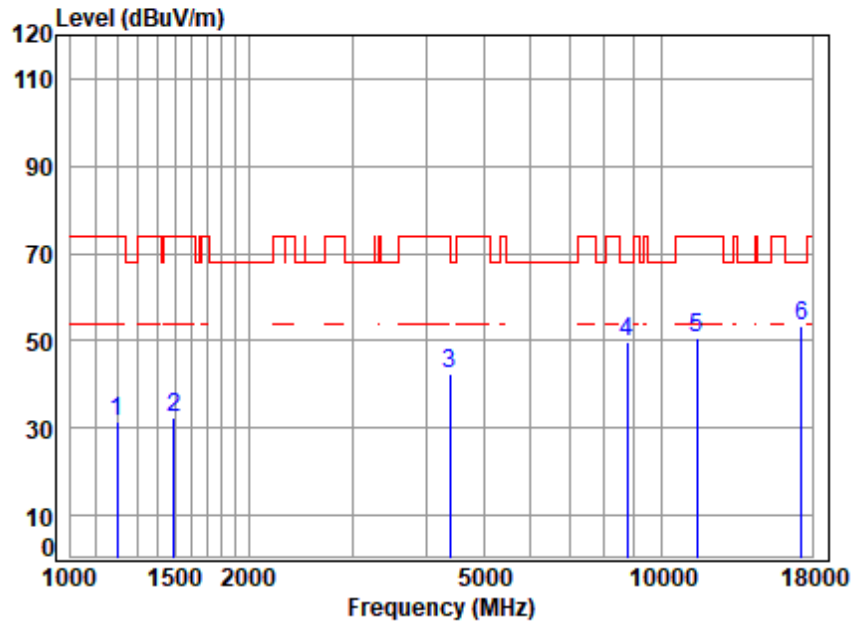
Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01176AT
 Mode : 5825 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	3.72	24.91	38.35	40.19	30.47	68.20	-37.73	peak
2	1583.392	4.18	26.87	38.40	38.90	31.55	74.00	-42.45	peak
3	4417.841	7.07	34.59	35.78	36.31	42.19	68.20	-26.01	peak
4	8176.795	10.44	36.55	36.75	38.90	49.14	74.00	-24.86	peak
5	11650.000	13.03	37.80	37.65	37.35	50.53	74.00	-23.47	peak
6	17475.000	14.84	43.40	37.58	32.26	52.92	68.20	-15.28	peak

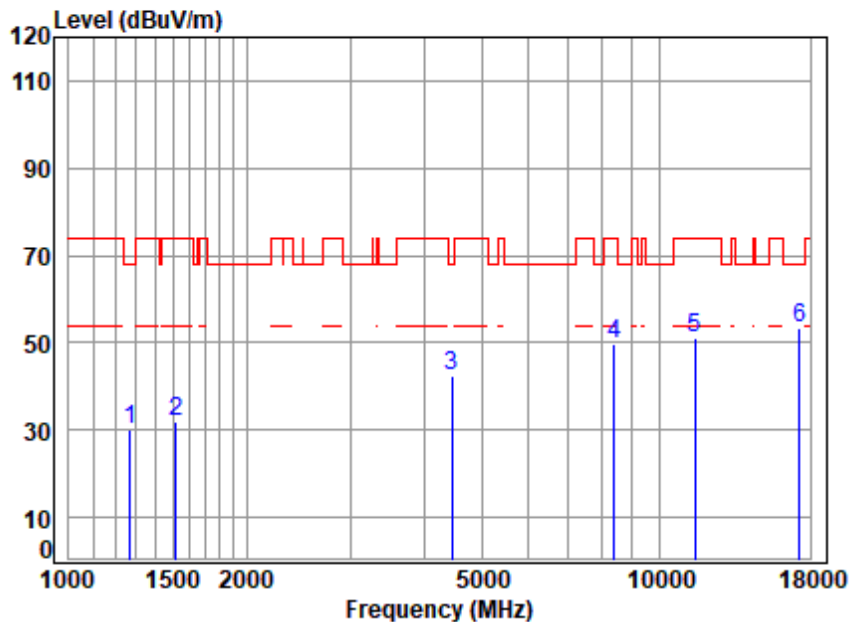
Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5755 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	3.58	24.36	38.34	41.94	31.54	74.00	-42.46	peak
2	1494.455	4.05	26.64	38.39	40.14	32.44	74.00	-41.56	peak
3	4392.376	7.05	34.74	35.80	36.27	42.26	74.00	-31.74	peak
4	8764.146	11.51	36.96	37.37	38.82	49.92	68.20	-18.28	peak
5	11510.000	13.00	37.79	37.69	37.37	50.47	74.00	-23.53	peak
6	17265.000	14.72	43.06	37.55	33.11	53.34	68.20	-14.86	peak

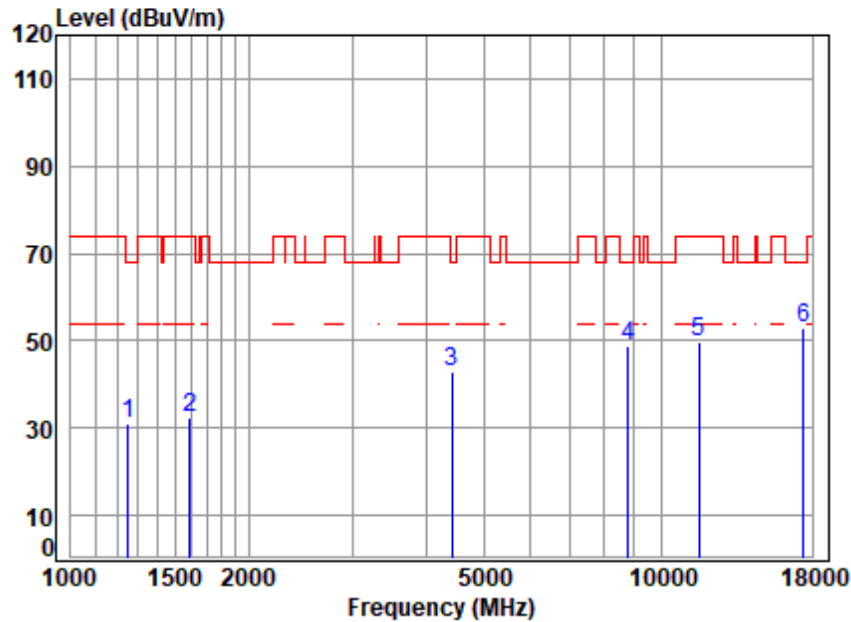
Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5755 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1271.123	3.71	24.97	38.35	39.88	30.21	68.20	-37.99	peak
2	1516.210	4.08	26.86	38.39	39.44	31.99	74.00	-42.01	peak
3	4456.315	7.09	34.12	35.76	37.17	42.62	68.20	-25.58	peak
4	8392.292	10.84	36.70	36.99	39.10	49.65	74.00	-24.35	peak
5	11510.000	13.00	37.79	37.69	37.80	50.90	74.00	-23.10	peak
6	p17265.000	14.72	43.06	37.55	33.16	53.39	68.20	-14.81	peak

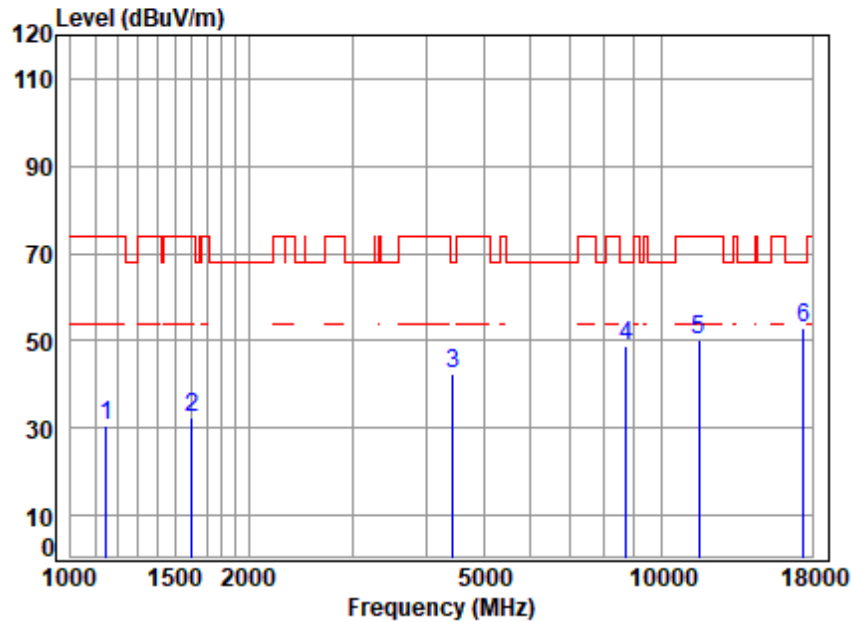
Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01176AT
 Mode : 5795 TX RSE
 Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.67	25.08	38.35	40.42	30.82	68.20	-37.38	peak
2	1592.571	4.19	26.83	38.40	39.66	32.28	74.00	-41.72	peak
3	4417.841	7.07	34.59	35.78	37.03	42.91	68.20	-25.29	peak
4	8789.516	11.55	37.06	37.40	37.57	48.78	68.20	-19.42	peak
5	11590.000	13.01	37.71	37.67	36.79	49.84	74.00	-24.16	peak
6	17385.000	14.79	43.35	37.57	32.21	52.78	68.20	-15.42	peak

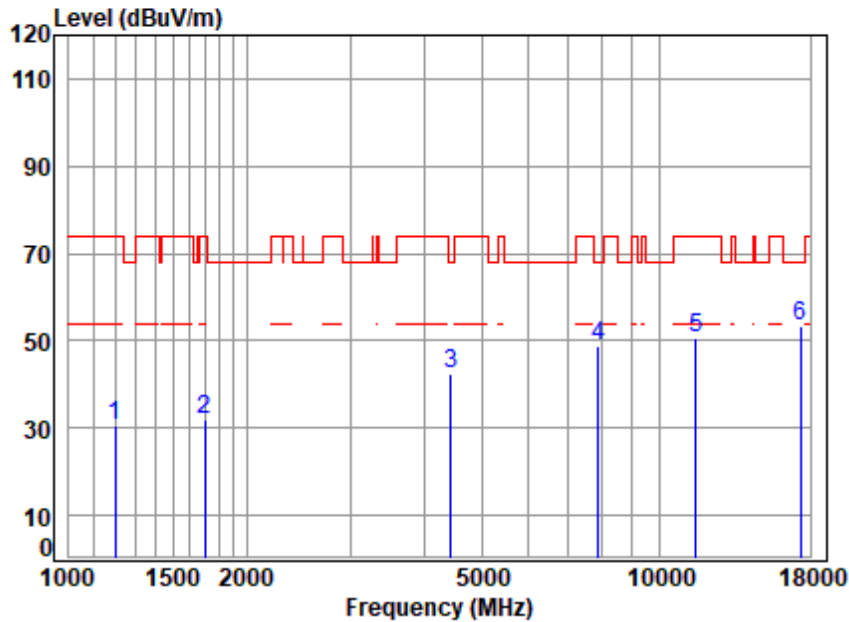
Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5795 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1148.823	3.49	23.90	38.33	41.30	30.36	74.00	-43.64	peak
2	1601.804	4.20	26.78	38.40	39.91	32.49	74.00	-41.51	peak
3	4443.453	7.09	34.28	35.77	36.93	42.53	68.20	-25.67	peak
4	8713.630	11.42	36.90	37.32	38.04	49.04	68.20	-19.16	peak
5	11590.000	13.01	37.71	37.67	37.12	50.17	74.00	-23.83	peak
6	p17385.000	14.79	43.35	37.57	32.50	53.07	68.20	-15.13	peak

Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle

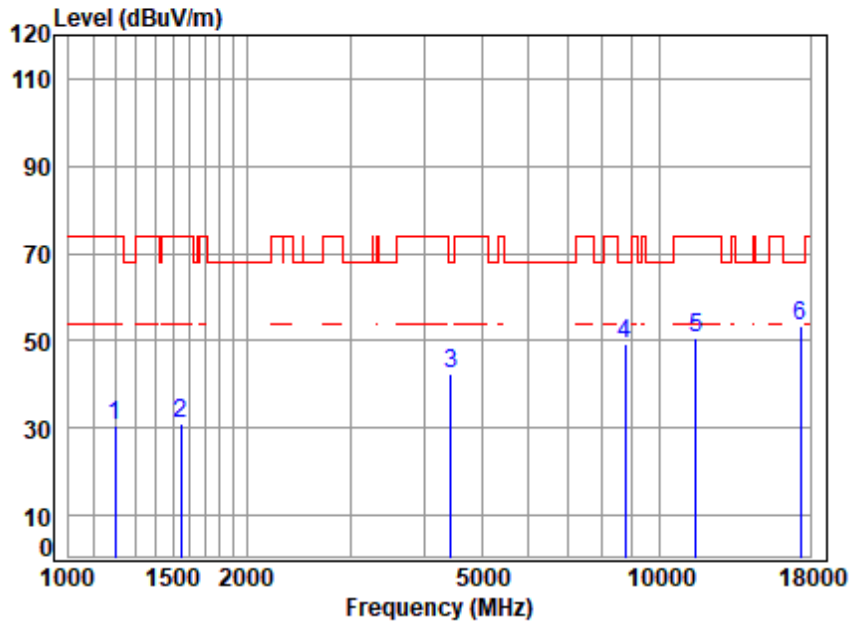


Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5775 TX RSE
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	3.58	24.36	38.34	41.07	30.67	74.00	-43.33	peak
2	1702.042	4.33	26.22	38.42	39.76	31.89	74.00	-42.11	peak
3	4430.628	7.08	34.43	35.77	36.58	42.32	68.20	-25.88	peak
4	7875.254	9.96	36.45	36.44	38.96	48.93	68.20	-19.27	peak
5	11550.000	13.01	37.75	37.68	37.67	50.75	74.00	-23.25	peak
6	p17325.000	14.76	43.17	37.56	32.82	53.19	68.20	-15.01	peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5775 TX RSE
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	3.58	24.36	38.34	40.79	30.39	74.00	-43.61	peak
2	1547.199	4.13	26.99	38.39	38.48	31.21	74.00	-42.79	peak
3	4430.628	7.08	34.43	35.77	36.67	42.41	68.20	-25.79	peak
4	8738.852	11.47	36.90	37.35	38.35	49.37	68.20	-18.83	peak
5	11550.000	13.01	37.75	37.68	37.34	50.42	74.00	-23.58	peak
6	17325.000	14.76	43.17	37.56	33.07	53.44	68.20	-14.76	peak

7.9 Radiated Emissions which fall in the restricted bands

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

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

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

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

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

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

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

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

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7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.4 °C

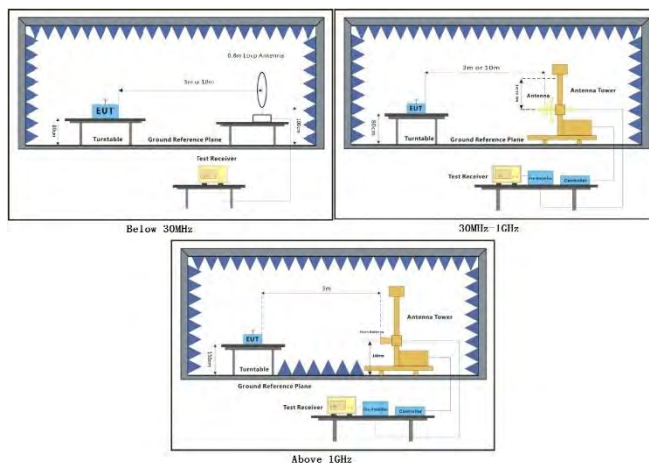
Humidity: 50.3 % RH

Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	08	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 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

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

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



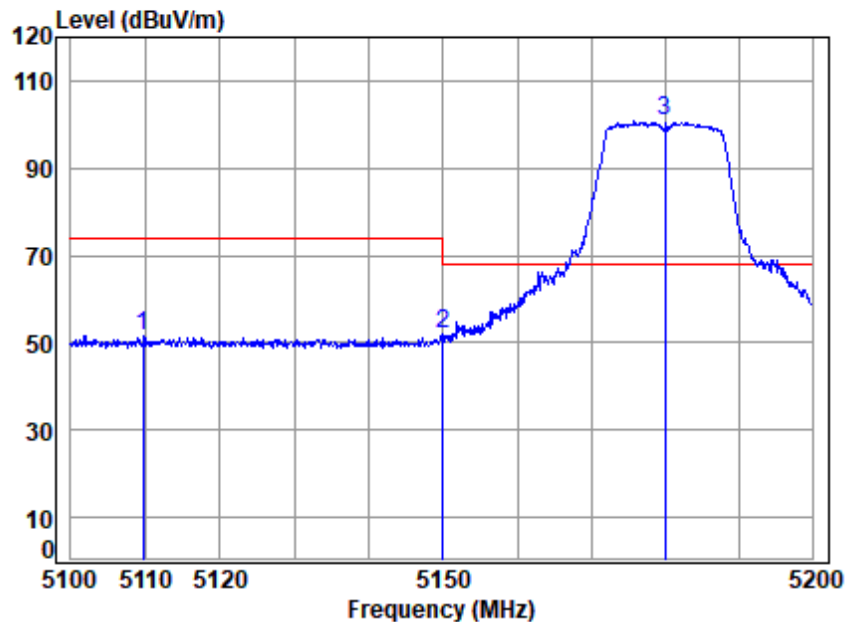
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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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Shenzhen Branch Testing Laboratory

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

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

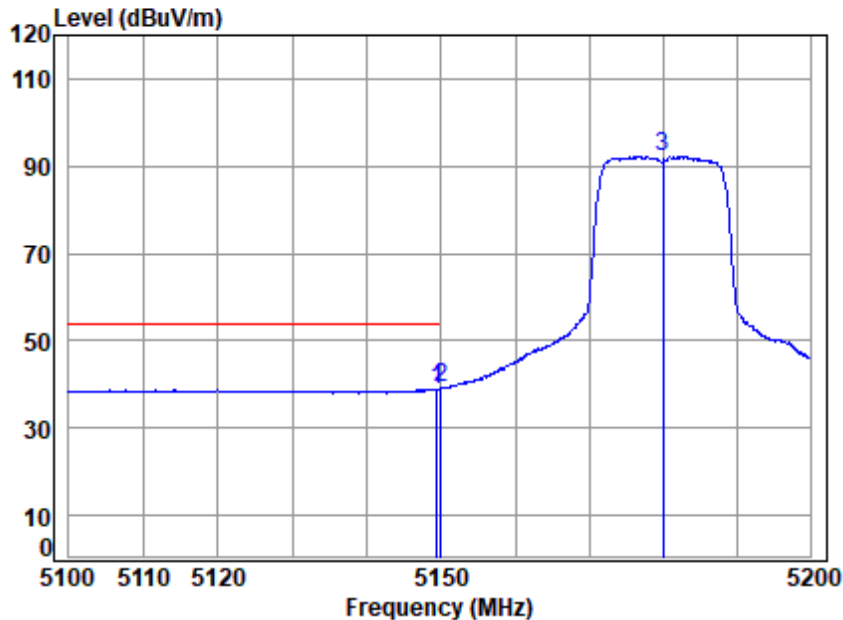


Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5109.714	7.52	33.98	35.33	45.42	51.59	74.00	-22.41 peak
2	5149.980	7.55	33.90	35.31	45.80	51.94	74.00	-22.06 peak
3 p	5180.000	7.57	33.96	35.29	94.79	101.03	68.20	32.83 peak



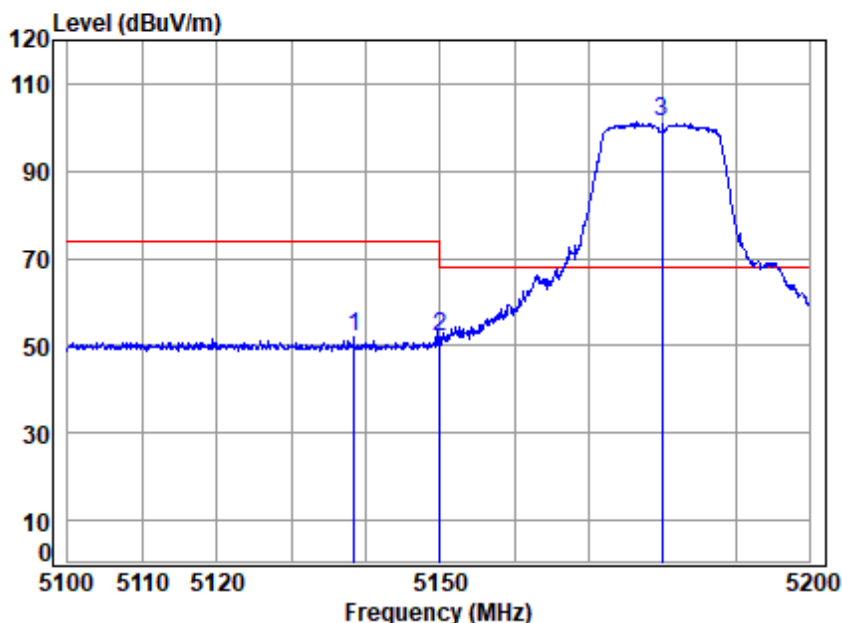
Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.458	7.55	33.90	35.31	32.87	39.01	54.00	-14.99 Average
2 q	5149.980	7.55	33.90	35.31	33.01	39.15	54.00	-14.85 Average
3	5180.000	7.57	33.96	35.29	85.92	92.16	-----	----- Average

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



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5180 Band edge
: 5G WIFI 11A

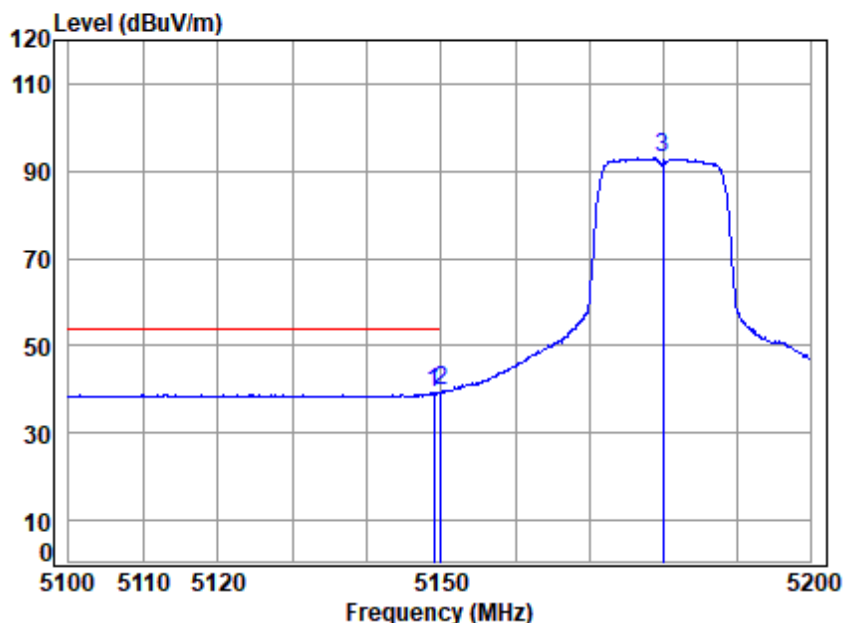
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5138.370	7.54	33.92	35.32	45.75	51.89	74.00	-22.11 Peak
2	5149.980	7.55	33.90	35.31	45.92	52.06	74.00	-21.94 Peak
3 p	5180.000	7.57	33.96	35.29	95.02	101.26	68.20	33.06 Peak



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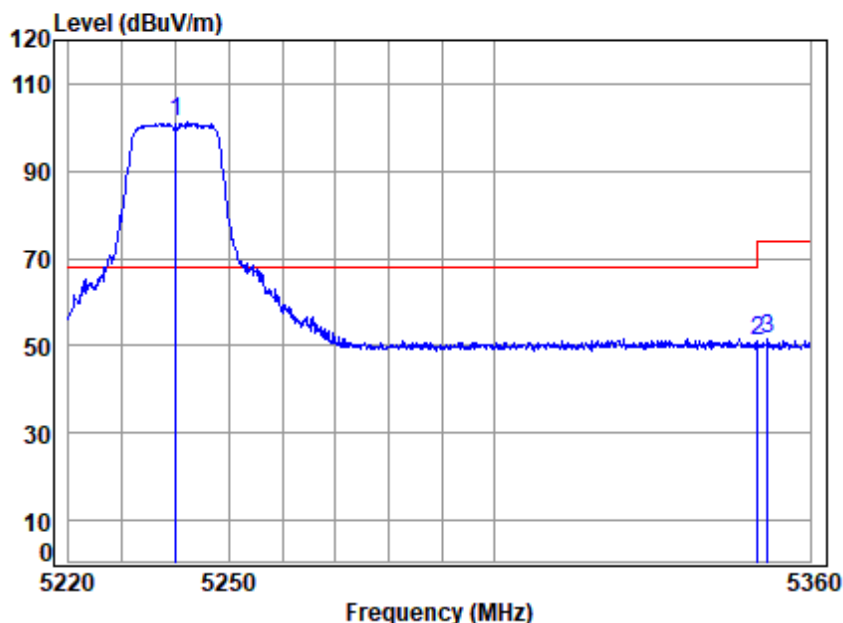
Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.958	7.55	33.90	35.31	33.29	39.43	54.00	-14.57 Average
2 q	5149.980	7.55	33.90	35.31	33.36	39.50	54.00	-14.50 Average
3	5180.000	7.57	33.96	35.29	86.72	92.96	-----	----- Average

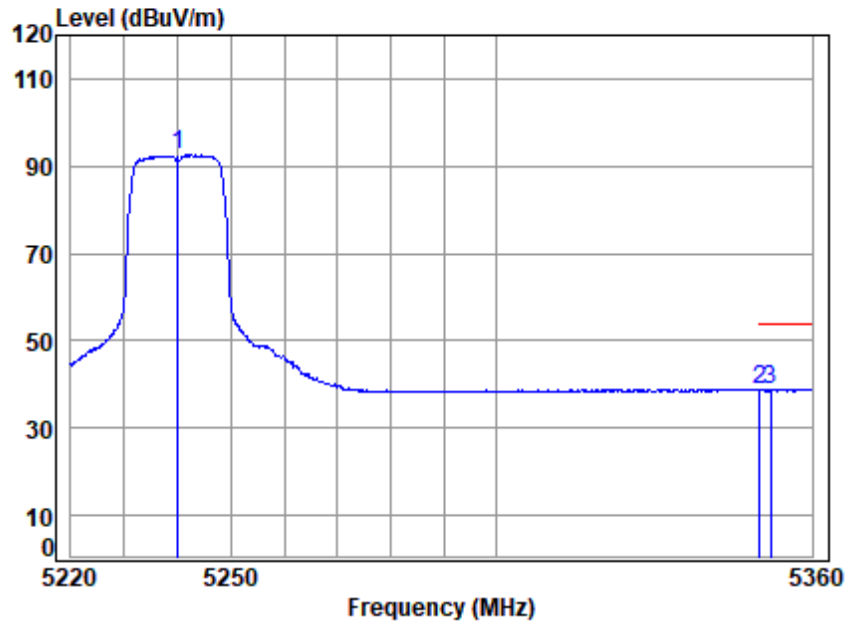
Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5240 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5240.000	7.62	34.08	35.26	94.81	101.25	68.20	33.05	peak
2 5350.020	7.70	34.40	35.21	43.99	50.88	74.00	-23.12	peak
3 5351.920	7.71	34.41	35.21	44.44	51.35	74.00	-22.65	peak

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

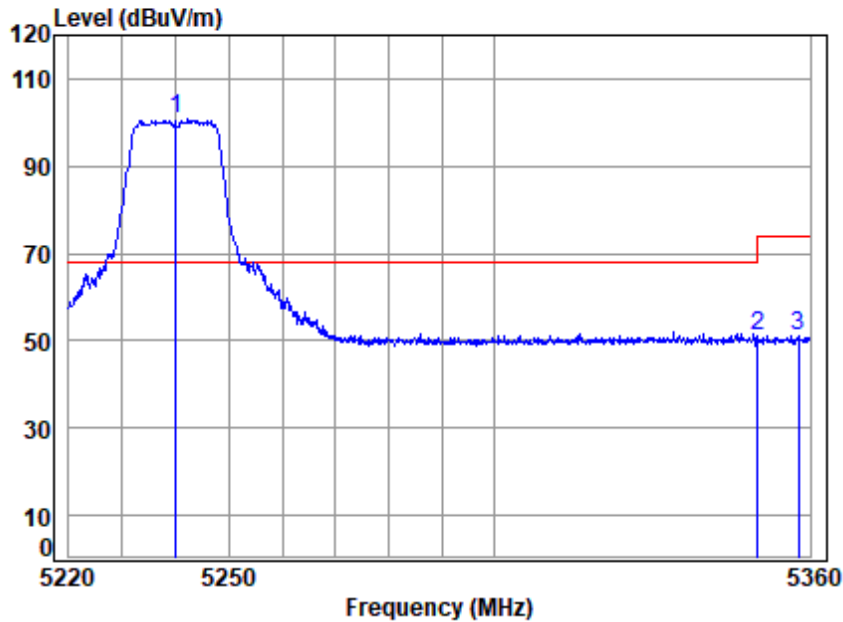


Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5240 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	7.62	34.08	35.26	86.12	92.56	-----	Average
2	5350.020	7.70	34.40	35.21	31.81	38.70	54.00	-15.30 Average
3 q	5352.062	7.71	34.41	35.21	31.90	38.81	54.00	-15.19 Average



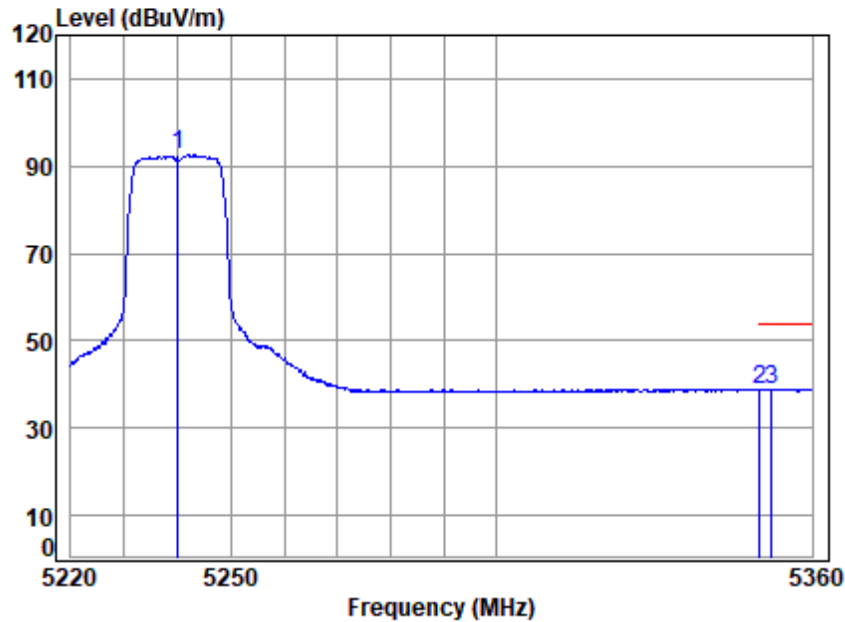
Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5240 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5240.000	7.62	34.08	35.26	94.43	100.87	68.20	32.67	Peak
2 5350.020	7.70	34.40	35.21	44.33	51.22	74.00	-22.78	Peak
3 5357.873	7.71	34.43	35.20	44.32	51.26	74.00	-22.74	Peak

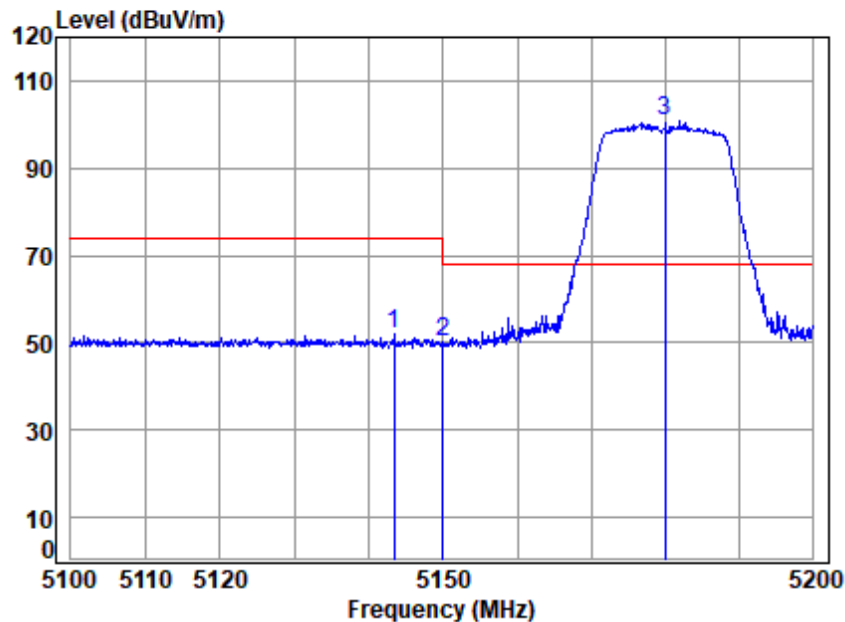
Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5240 Band edge
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	7.62	34.08	35.26	86.07	92.51	-----	-----	Average
2	5350.020	7.70	34.40	35.21	31.88	38.77	54.00	-15.23	Average
3 q	5352.203	7.71	34.41	35.21	32.04	38.95	54.00	-15.05	Average

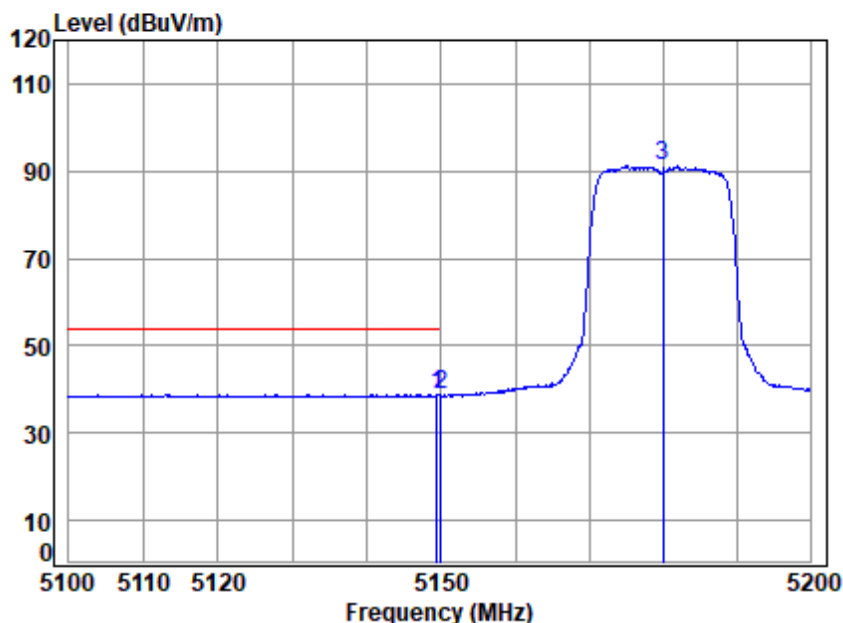
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5180 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5143.361	7.54	33.91	35.31	45.93	52.07	74.00	-21.93	peak
2	5149.980	7.55	33.90	35.31	44.17	50.31	74.00	-23.69	peak
3 p	5180.000	7.57	33.96	35.29	94.60	100.84	68.20	32.64	peak

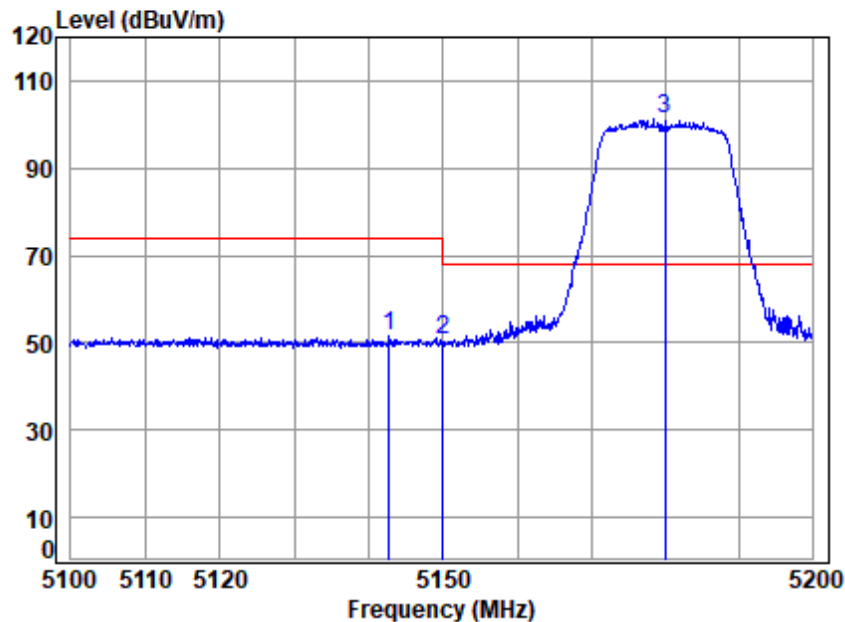
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5180 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.357	7.55	33.90	35.31	32.60	38.74	54.00	-15.26 Average
2 q	5149.980	7.55	33.90	35.31	32.60	38.74	54.00	-15.26 Average
3	5180.000	7.57	33.96	35.29	84.88	91.12	-----	----- Average

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

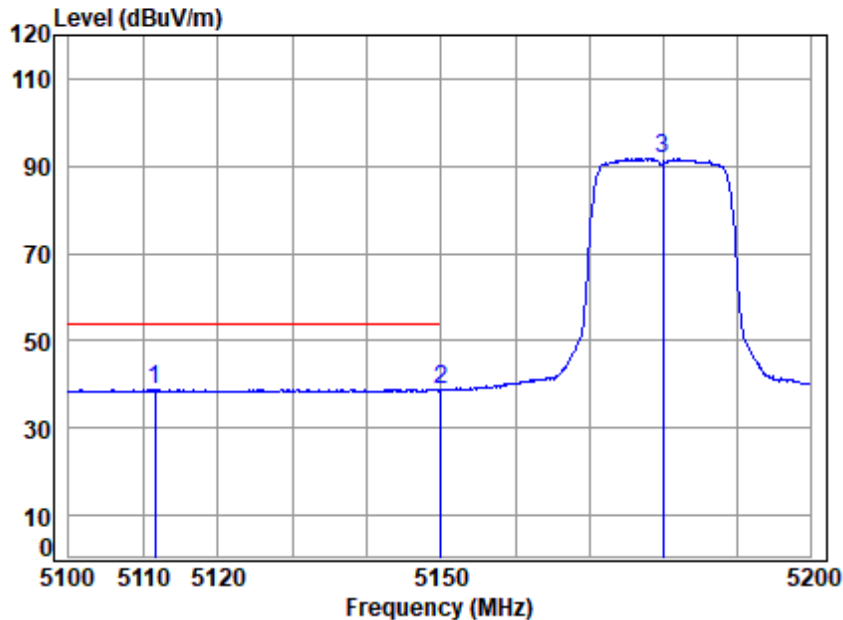


Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5180 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5142.762	7.54	33.91	35.31	45.49	51.63	74.00	-22.37 Peak
2	5149.980	7.55	33.90	35.31	44.54	50.68	74.00	-23.32 Peak
3 p	5180.000	7.57	33.96	35.29	94.86	101.10	68.20	32.90 Peak



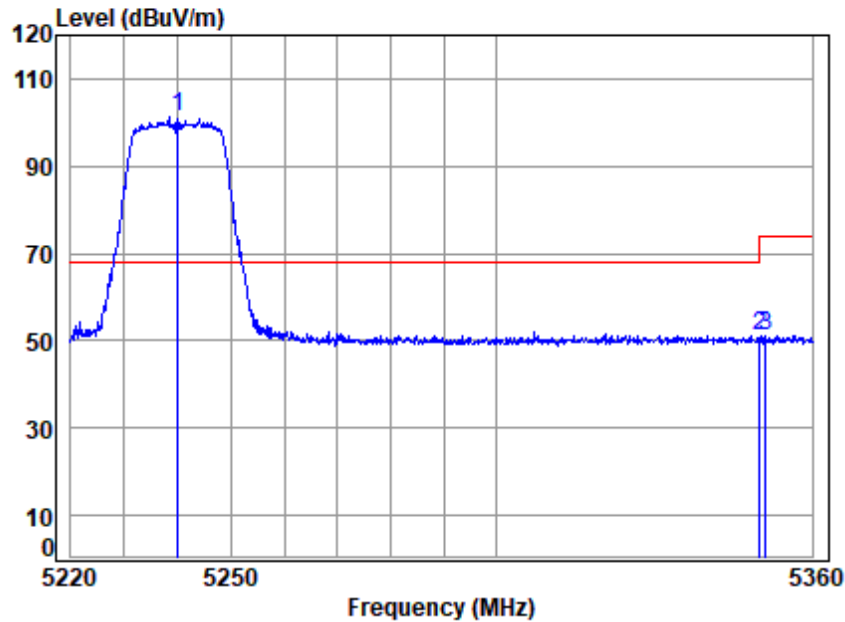
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5180 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5111.600	7.52	33.98	35.33	32.66	38.83	54.00	-15.17	Average
2 5149.980	7.55	33.90	35.31	32.61	38.75	54.00	-15.25	Average
3 5180.000	7.57	33.96	35.29	85.41	91.65	-----	-----	Average

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5240 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5240.000	7.62	34.08	35.26	94.69	101.13	68.20	32.93 peak
2	5350.020	7.70	34.40	35.21	44.24	51.13	74.00	-22.87 peak
3	5351.070	7.71	34.40	35.21	44.23	51.13	74.00	-22.87 peak

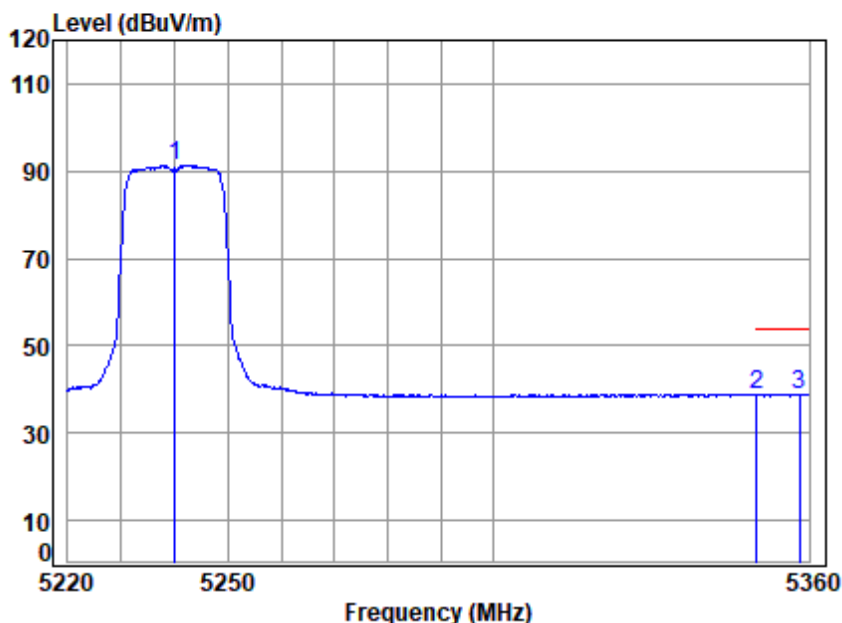
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5240 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	7.62	34.08	35.26	84.92	91.36	-----	----- Average
2	5350.020	7.70	34.40	35.21	31.89	38.78	54.00	-15.22 Average
3 q	5358.156	7.71	34.43	35.20	31.97	38.91	54.00	-15.09 Average



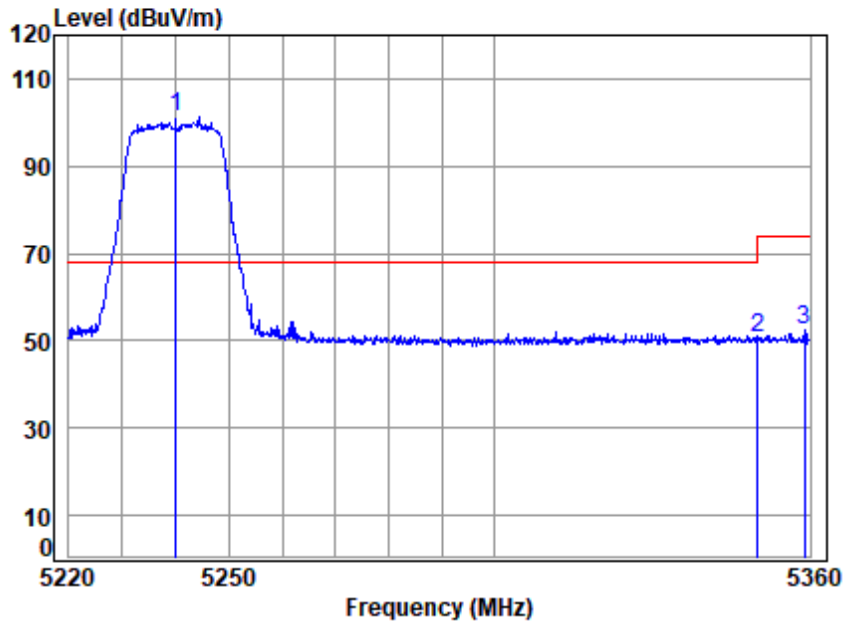
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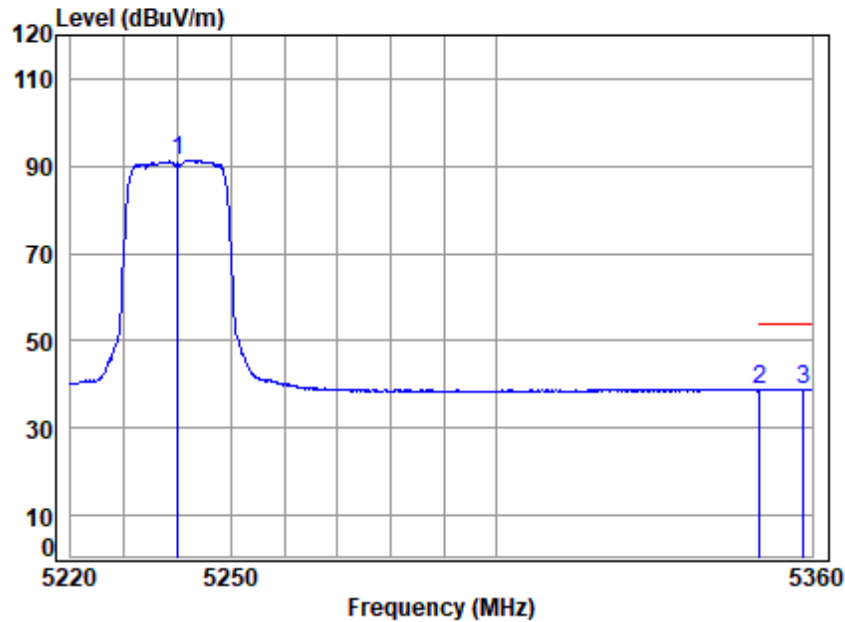
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5240 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5240.000	7.62	34.08	35.26	94.73	101.17	68.20	32.97 Peak
2	5350.020	7.70	34.40	35.21	43.70	50.59	74.00	-23.41 Peak
3	5358.865	7.71	34.44	35.20	45.44	52.39	74.00	-21.61 Peak

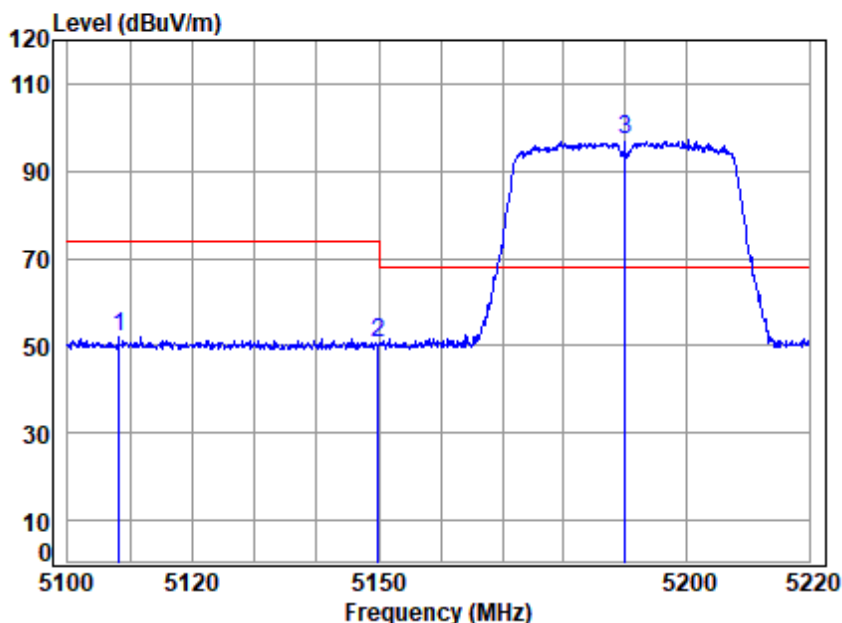
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5240 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	7.62	34.08	35.26	84.90	91.34	-----	----- Average
2	5350.020	7.70	34.40	35.21	31.87	38.76	54.00	-15.24 Average
3 q	5358.298	7.71	34.43	35.20	32.01	38.95	54.00	-15.05 Average

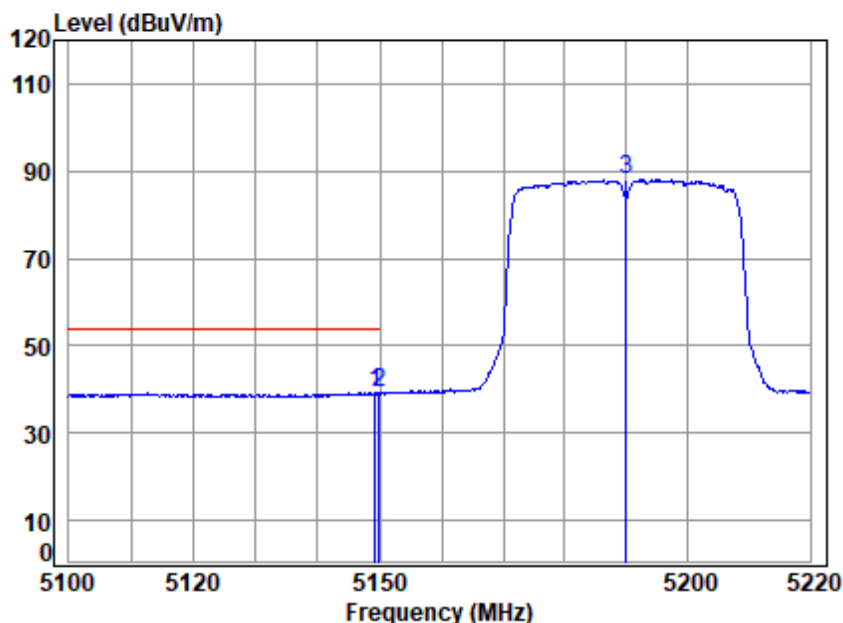
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5108.190	7.52	33.98	35.33	45.93	52.10	74.00	-21.90	peak
2	5149.980	7.55	33.90	35.31	44.38	50.52	74.00	-23.48	peak
3 p	5190.000	7.58	33.98	35.29	90.78	97.05	68.20	28.85	peak

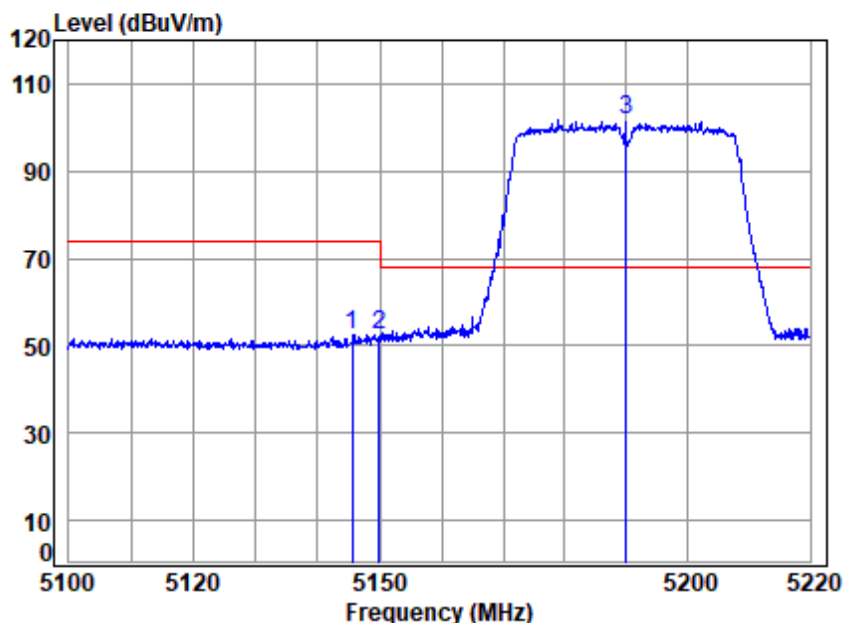
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	5149.222	7.55	33.90	35.31	33.32	39.46	54.00	-14.54 Average
2	5149.980	7.55	33.90	35.31	32.98	39.12	54.00	-14.88 Average
3	5190.000	7.58	33.98	35.29	81.69	87.96	-----	----- Average

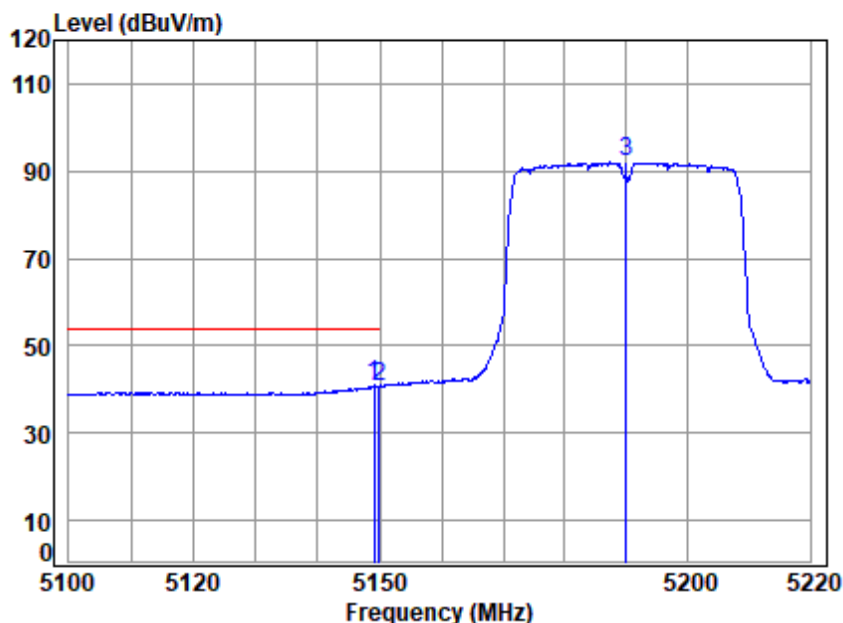
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5145.630	7.55	33.91	35.31	46.53	52.68	74.00	-21.32 Peak
2	5149.980	7.55	33.90	35.31	46.22	52.36	74.00	-21.64 Peak
3 p	5190.000	7.58	33.98	35.29	95.59	101.86	68.20	33.66 Peak

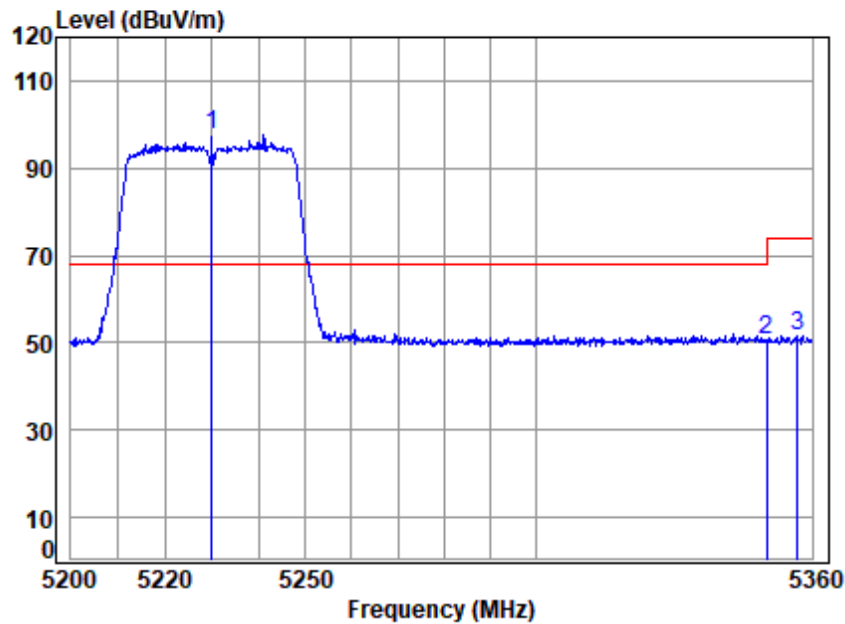
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5149.102	7.55	33.90	35.31	34.75	40.89	54.00	-13.11	Average
2 5149.980	7.55	33.90	35.31	34.67	40.81	54.00	-13.19	Average
3 5190.000	7.58	33.98	35.29	85.70	91.97	-----	-----	Average

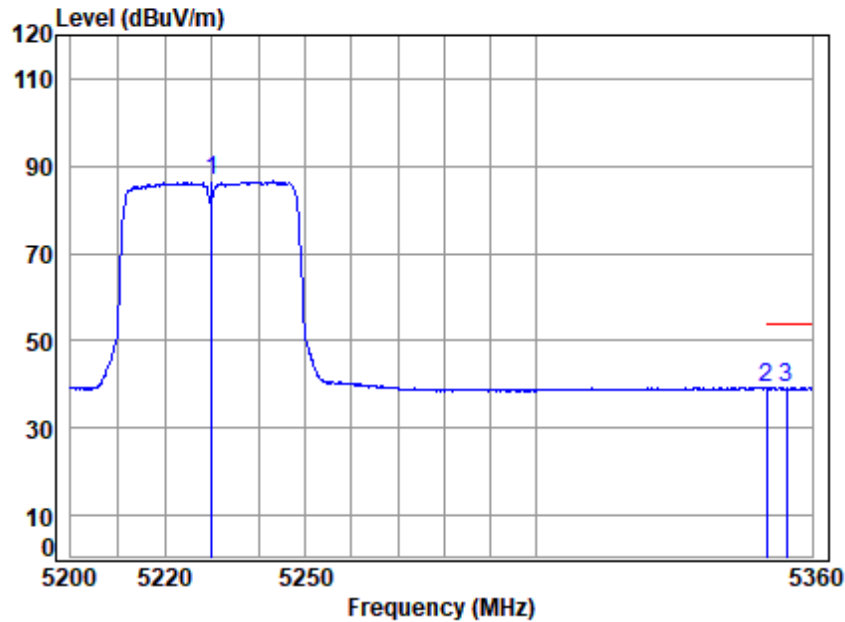
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5230 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5230.000	7.61	34.06	35.27	91.02	97.42	68.20	29.22 peak
2	5350.020	7.70	34.40	35.21	43.83	50.72	74.00	-23.28 peak
3	5356.915	7.71	34.43	35.20	44.71	51.65	74.00	-22.35 peak

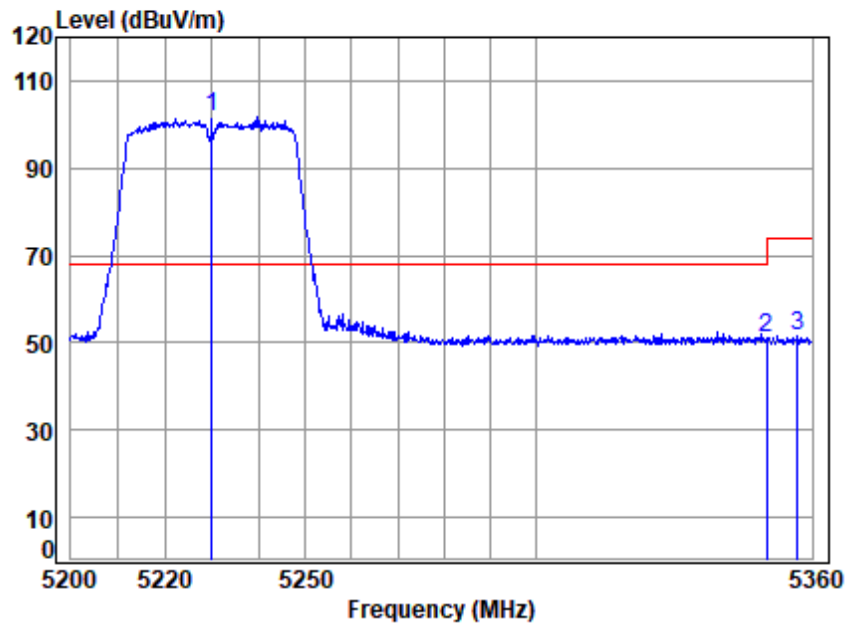
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5230 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5230.000	7.61	34.06	35.27	80.12	86.52	-----	----- Average
2	5350.020	7.70	34.40	35.21	32.20	39.09	54.00	-14.91 Average
3 q	5354.480	7.71	34.42	35.21	32.39	39.31	54.00	-14.69 Average

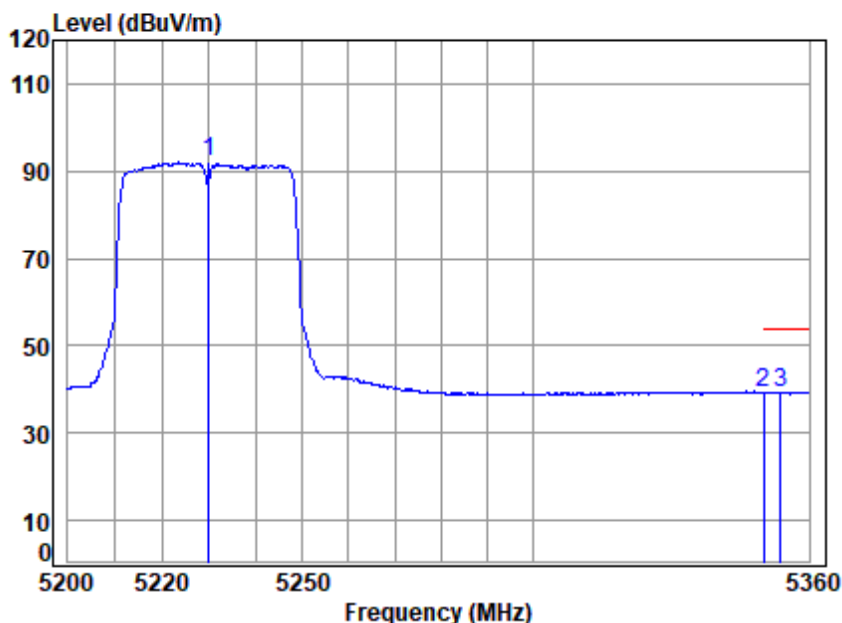
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5230 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5230.000	7.61	34.06	35.27	95.29	101.69	68.20	33.49 Peak
2	5350.020	7.70	34.40	35.21	44.05	50.94	74.00	-23.06 Peak
3	5356.752	7.71	34.43	35.20	44.63	51.57	74.00	-22.43 Peak

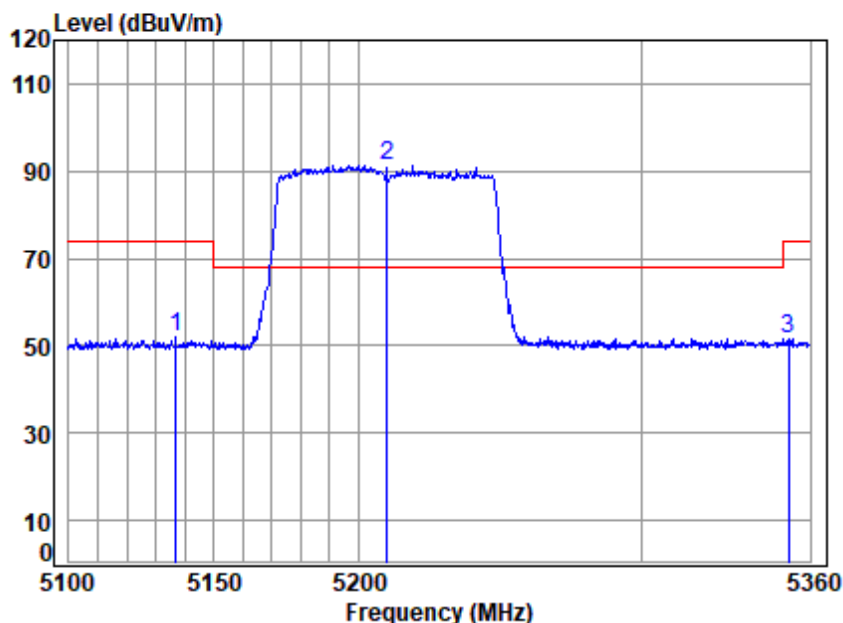
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5230 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5230.000	7.61	34.06	35.27	85.56	91.96	-----	----- Average
2	5350.020	7.70	34.40	35.21	32.36	39.25	54.00	-14.75 Average
3 q	5353.831	7.71	34.42	35.21	32.47	39.39	54.00	-14.61 Average

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5136.648	7.54	33.93	35.32	45.87	52.02	74.00	-21.98	peak
2 p	5210.000	7.60	34.02	35.28	84.97	91.31	68.20	23.11	peak
3	5352.276	7.71	34.41	35.21	44.67	51.58	74.00	-22.42	peak

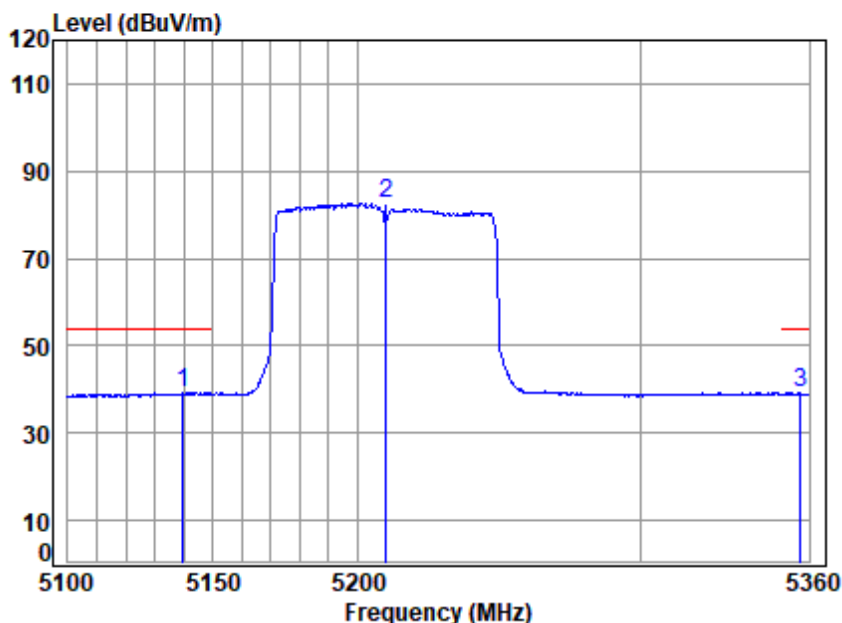
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	5139.458	7.54	33.92	35.32	33.11	39.25	54.00	-14.75 Average
2	5210.000	7.60	34.02	35.28	76.45	82.79	-----	----- Average
3	5357.069	7.71	34.43	35.20	32.21	39.15	54.00	-14.85 Average



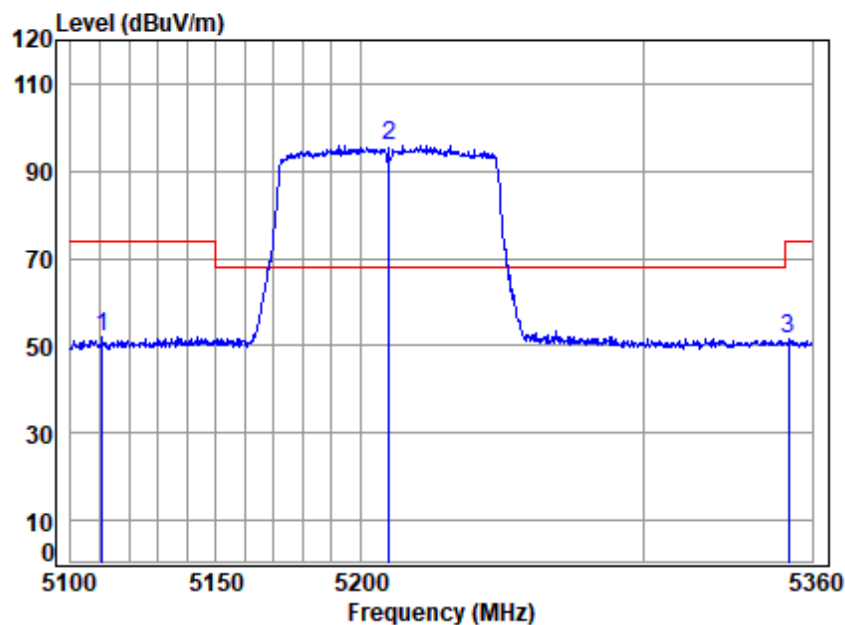
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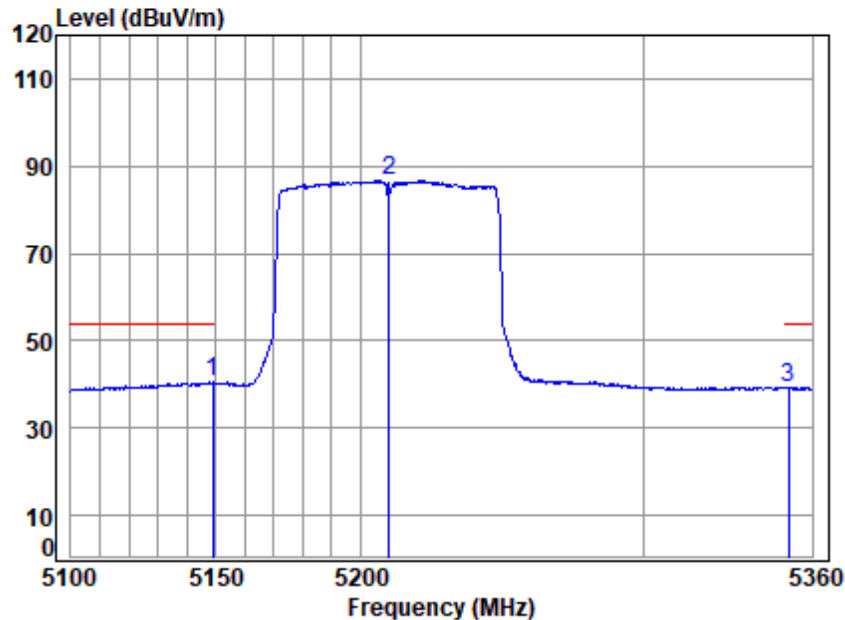
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5110.662	7.52	33.98	35.33	46.05	52.22	74.00	-21.78 Peak
2 p	5210.000	7.60	34.02	35.28	89.64	95.98	68.20	27.78 Peak
3	5351.478	7.71	34.41	35.21	44.52	51.43	74.00	-22.57 Peak

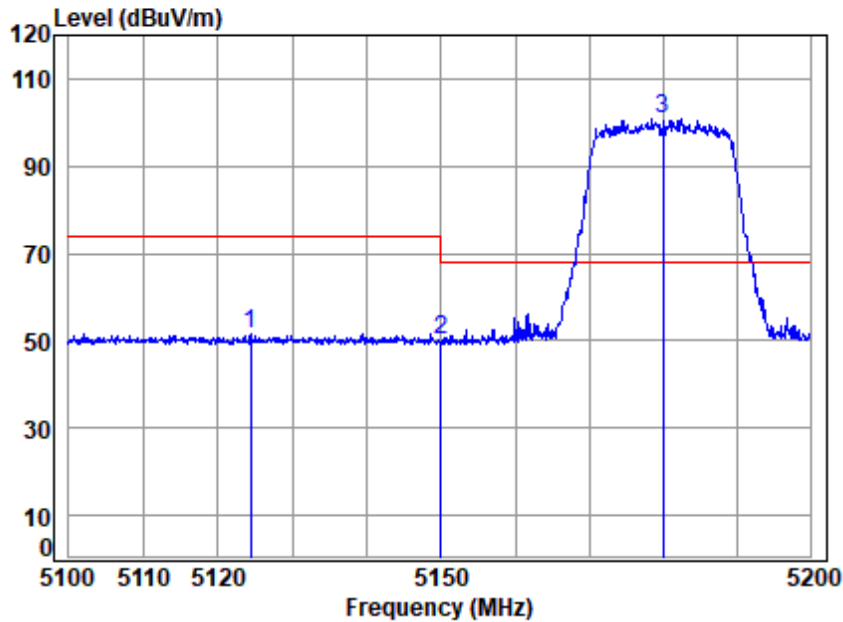
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01176AT
 Mode : 5210 Band edge
 : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	5148.922	7.55	33.90	35.31	34.34	40.48	54.00	-13.52	Average
2	5210.000	7.60	34.02	35.28	80.38	86.72	-----	-----	Average
3	5351.478	7.71	34.41	35.21	32.38	39.29	54.00	-14.71	Average

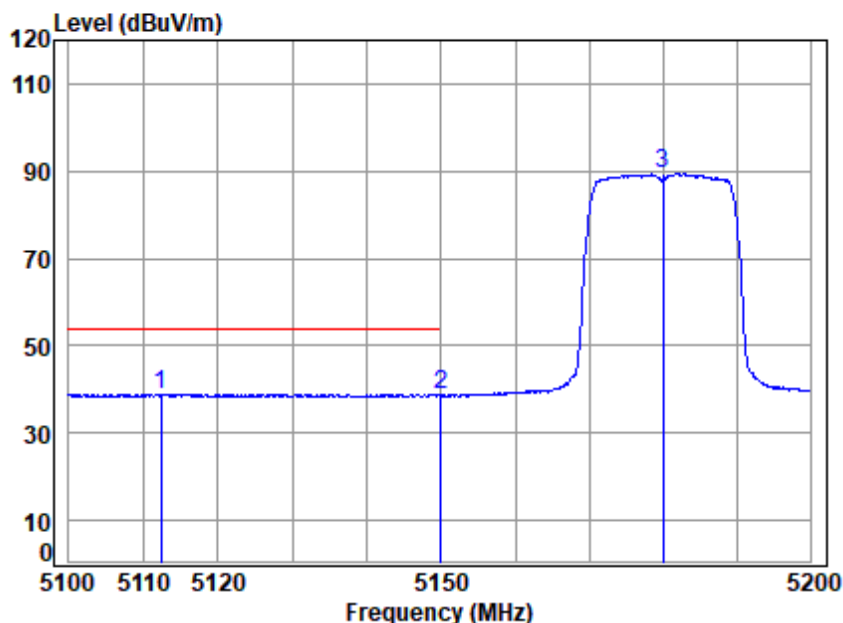
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5180 Band edge
: 5G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5124.321	7.53	33.95	35.32	45.50	51.66	74.00	-22.34 peak
2	5149.980	7.55	33.90	35.31	44.22	50.36	74.00	-23.64 peak
3 p	5180.000	7.57	33.96	35.29	94.80	101.04	68.20	32.84 peak

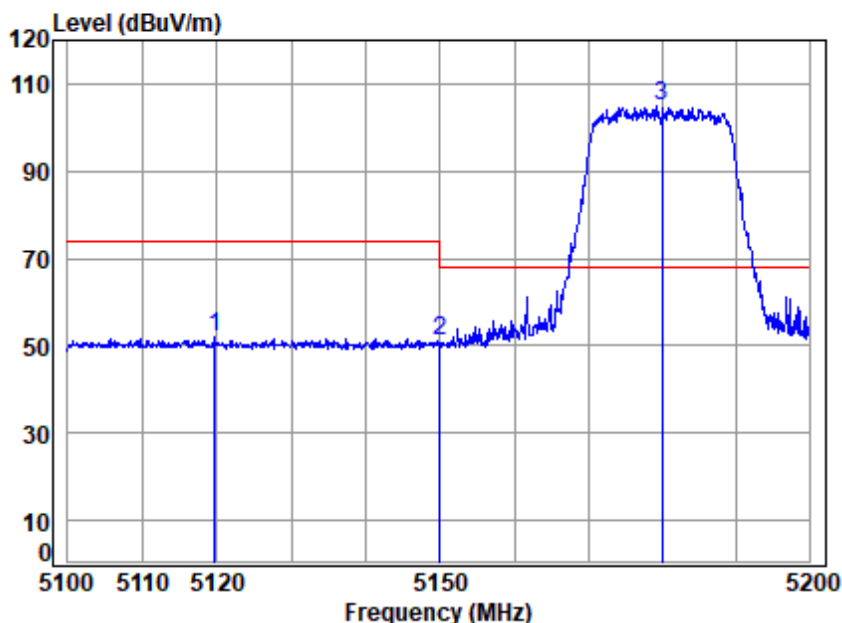
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5180 Band edge
: 5G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5112.394	7.52	33.98	35.33	32.70	38.87	54.00	-15.13	Average
2 5149.980	7.55	33.90	35.31	32.52	38.66	54.00	-15.34	Average
3 5180.000	7.57	33.96	35.29	83.25	89.49	-----	-----	Average

Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low

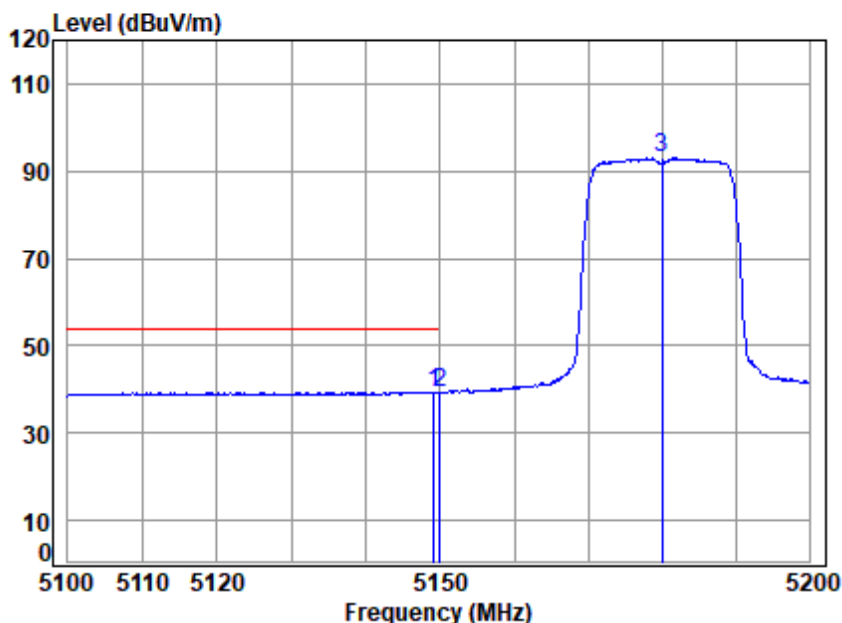


Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5180 Band edge
: 5G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5119.646	7.53	33.96	35.33	45.74	51.90	74.00	-22.10 Peak
2	5149.980	7.55	33.90	35.31	45.03	51.17	74.00	-22.83 Peak
3 p	5180.000	7.57	33.96	35.29	98.68	104.92	68.20	36.72 Peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5180 Band edge
: 5G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.157	7.55	33.90	35.31	33.21	39.35	54.00	-14.65 Average
2 q	5149.980	7.55	33.90	35.31	33.26	39.40	54.00	-14.60 Average
3	5180.000	7.57	33.96	35.29	86.72	92.96	-----	----- Average

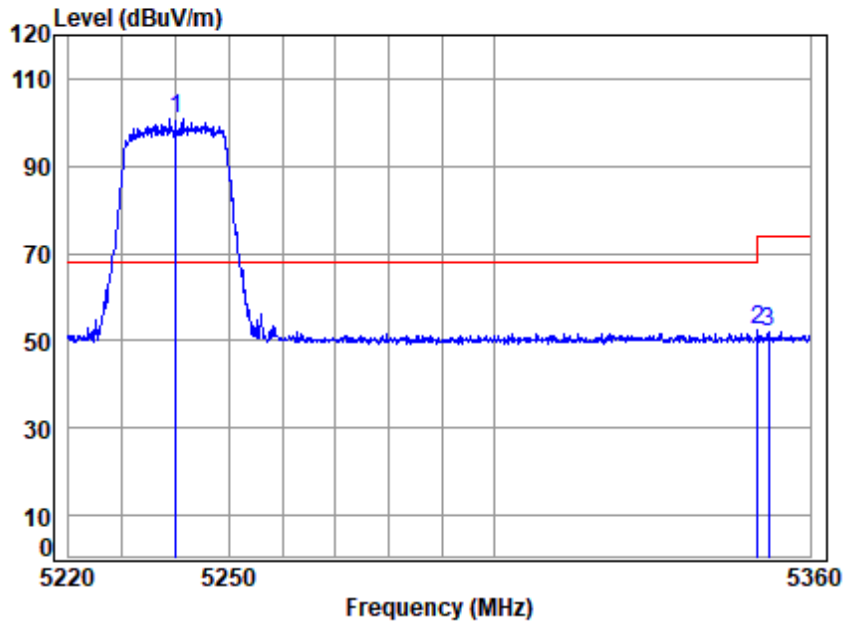
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Report No.: SZCR240400117605

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5240 Band edge
: 5G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5240.000	7.62	34.08	35.26	94.37	100.81	68.20	32.61 peak
2	5350.020	7.70	34.40	35.21	45.59	52.48	74.00	-21.52 peak
3	5352.062	7.71	34.41	35.21	45.18	52.09	74.00	-21.91 peak



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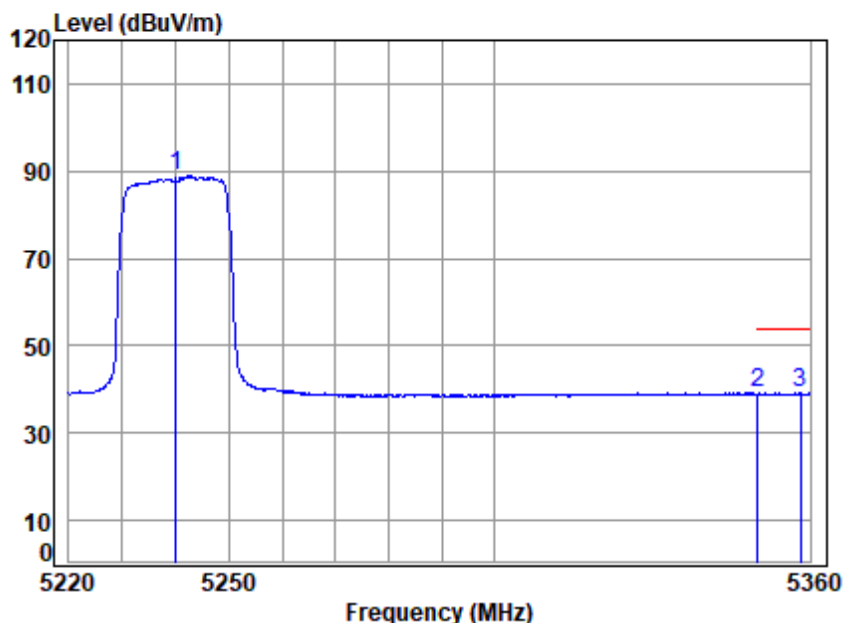
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400117605

Page: 175 of 588

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5240 Band edge
: 5G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5240.000	7.62	34.08	35.26	82.36	88.80	-----	-----	Average
2 5350.020	7.70	34.40	35.21	32.13	39.02	54.00	-14.98	Average
3 q 5358.156	7.71	34.43	35.20	32.17	39.11	54.00	-14.89	Average



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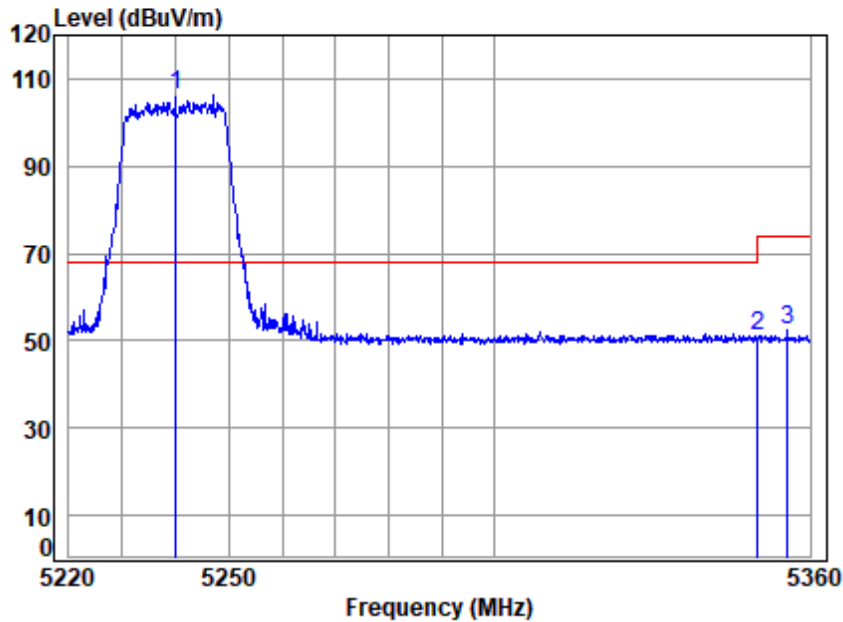
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400117605

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Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5240 Band edge
: 5G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5240.000	7.62	34.08	35.26	99.80	106.24	68.20	38.04	Peak
2 5350.020	7.70	34.40	35.21	44.18	51.07	74.00	-22.93	Peak
3 5355.604	7.71	34.42	35.21	45.51	52.43	74.00	-21.57	Peak



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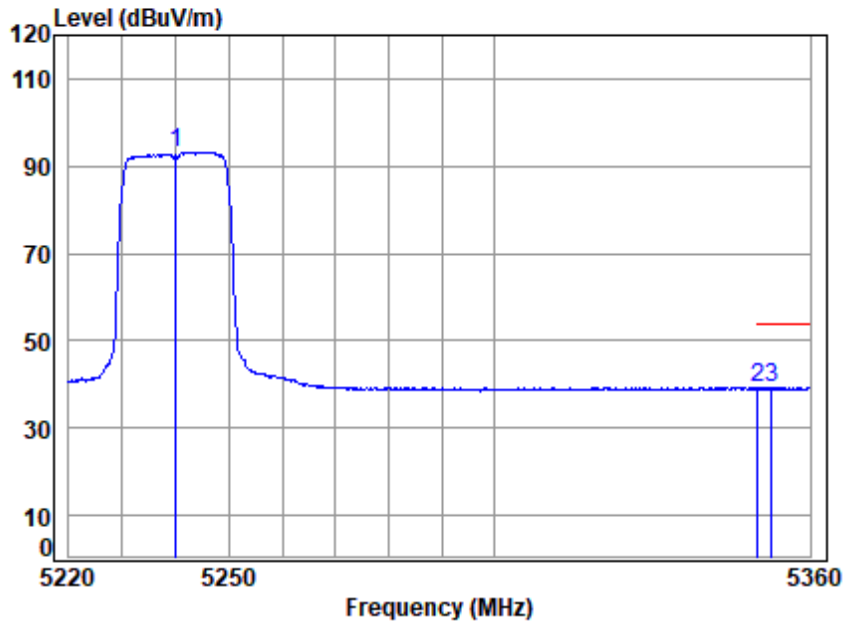
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Report No.: SZCR240400117605

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Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5240 Band edge
: 5G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	7.62	34.08	35.26	86.87	93.31	-----	----- Average
2	5350.020	7.70	34.40	35.21	32.21	39.10	54.00	-14.90 Average
3 q	5352.628	7.71	34.41	35.21	32.28	39.19	54.00	-14.81 Average



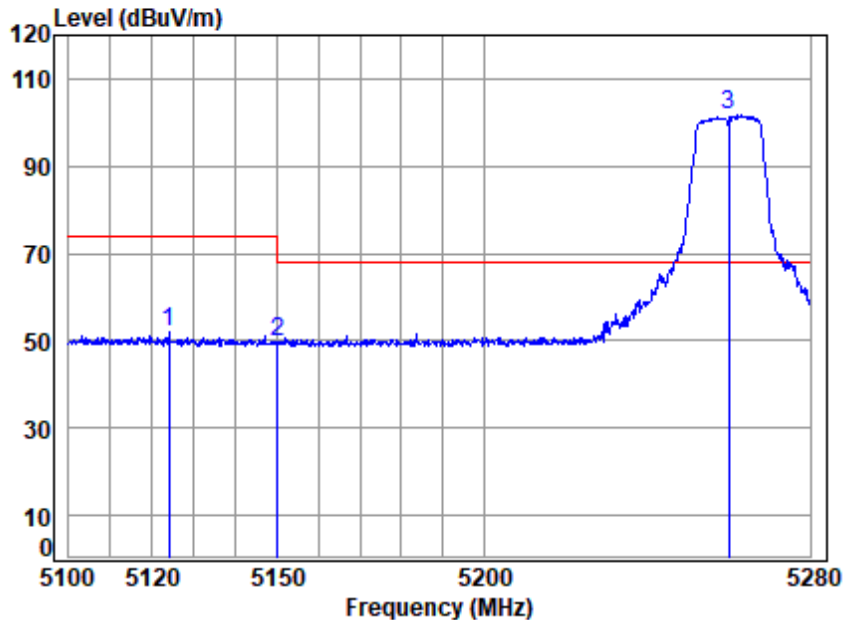
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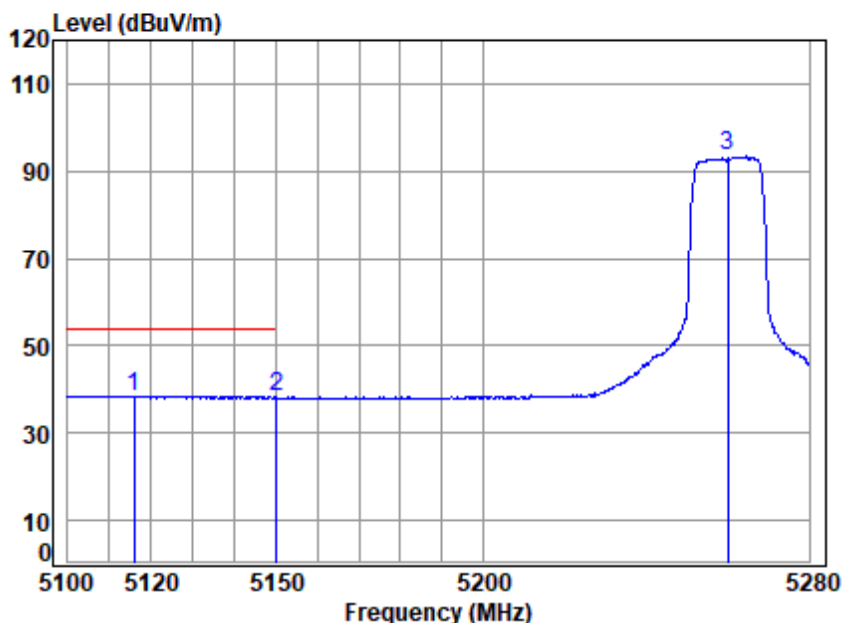
Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5260 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5123.937	7.53	33.95	35.32	45.67	51.83	74.00	-22.17	peak
2	5149.980	7.55	33.90	35.31	43.69	49.83	74.00	-24.17	peak
3 p	5260.000	7.64	34.12	35.25	95.34	101.85	68.20	33.65	peak

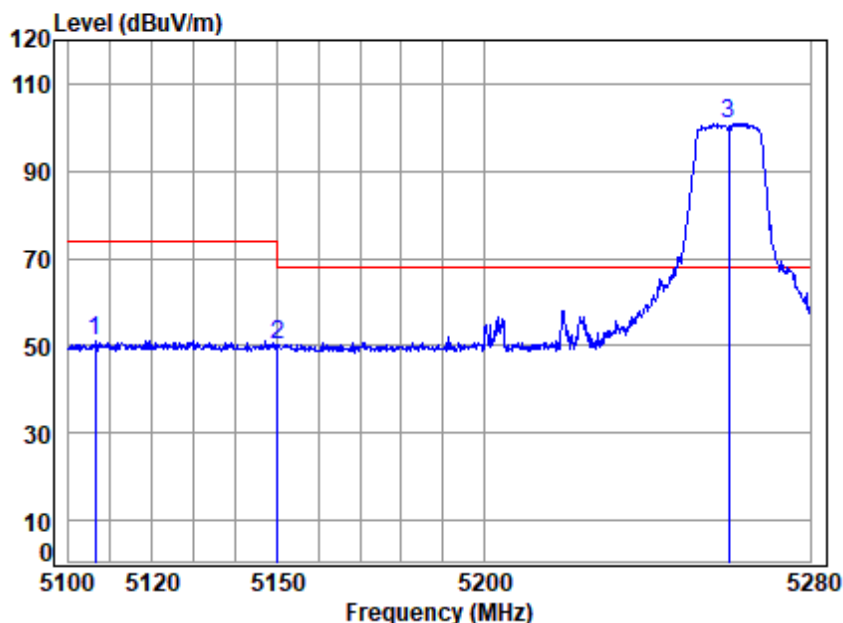
Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5260 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5115.768	7.52	33.97	35.33	32.34	38.50	54.00	-15.50	Average
2 5149.980	7.55	33.90	35.31	32.21	38.35	54.00	-15.65	Average
3 5260.000	7.64	34.12	35.25	86.82	93.33	-----	-----	Average

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



Site : chamber

Condition: 3m VERTICAL

Job No : 01176AT

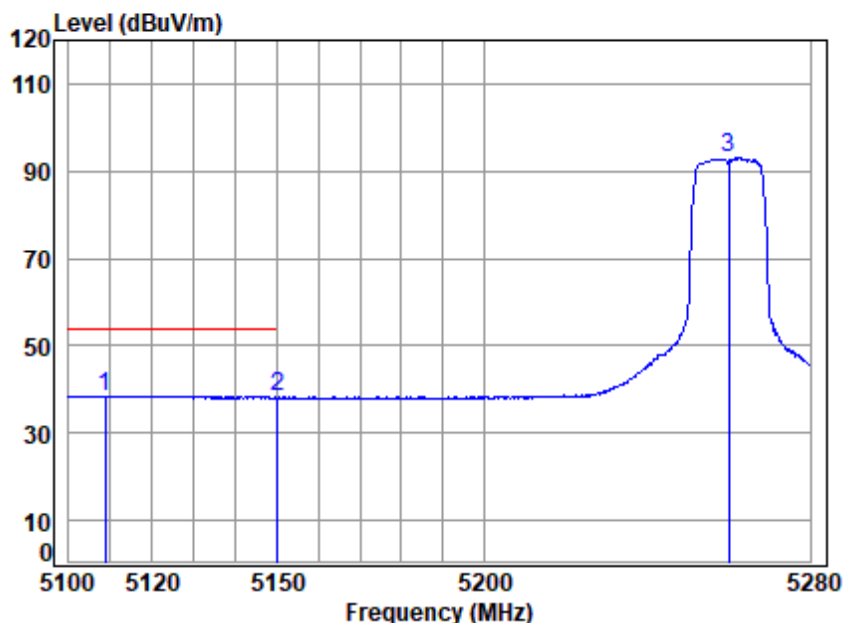
Mode : 5260 Band edge

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5106.372	7.52	33.99	35.33	44.90	51.08	74.00	-22.92	Peak
2	5149.980	7.55	33.90	35.31	43.97	50.11	74.00	-23.89	Peak
3 p	5260.000	7.64	34.12	35.25	94.41	100.92	68.20	32.72	Peak



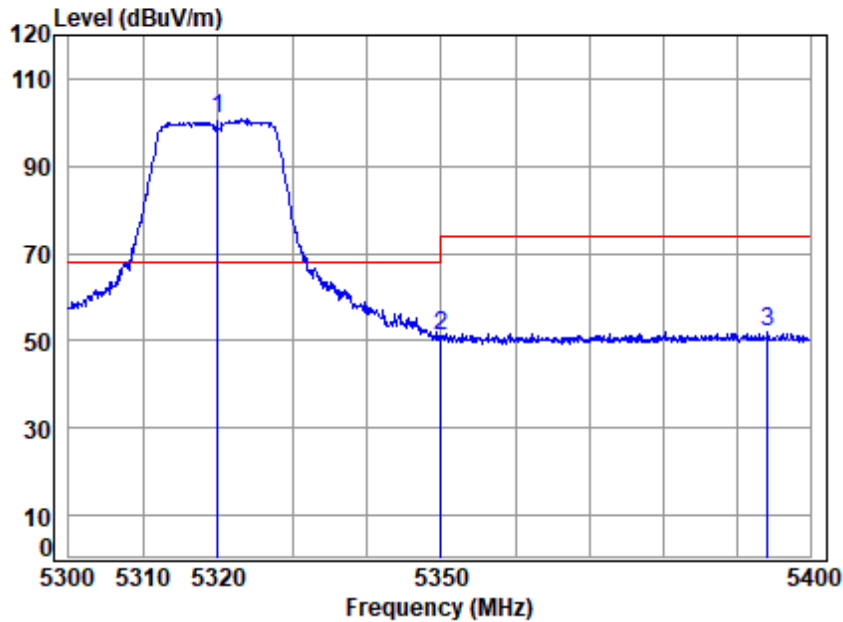
Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5260 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	5108.675	7.52	33.98	35.33	32.30	38.47	54.00	-15.53 Average
2	5149.980	7.55	33.90	35.31	32.02	38.16	54.00	-15.84 Average
3	5260.000	7.64	34.12	35.25	86.54	93.05	-----	----- Average

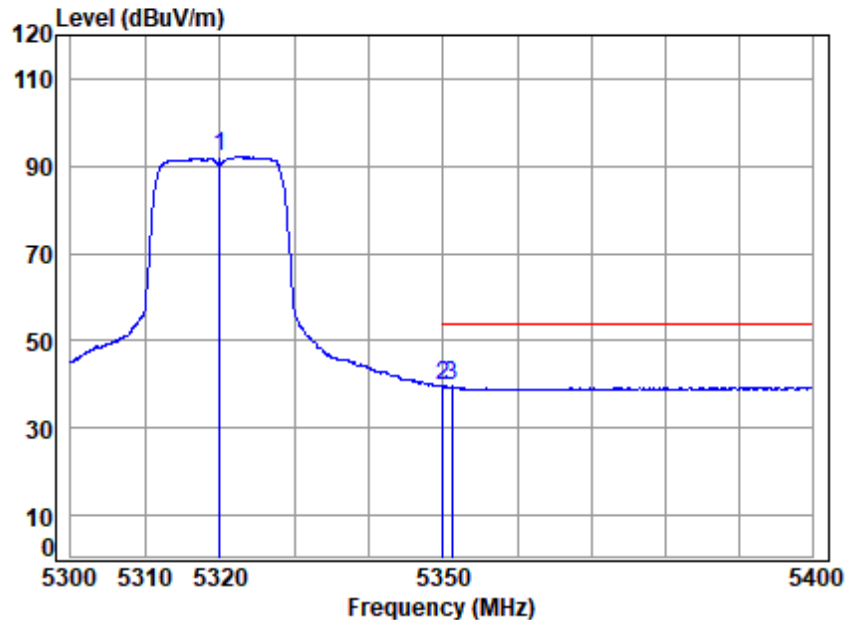
Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5320 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5320.000	7.68	34.28	35.22	93.91	100.65	68.20	32.45	peak
2 5350.020	7.70	34.40	35.21	44.23	51.12	74.00	-22.88	peak
3 5394.250	7.74	34.58	35.19	44.86	51.99	74.00	-22.01	peak

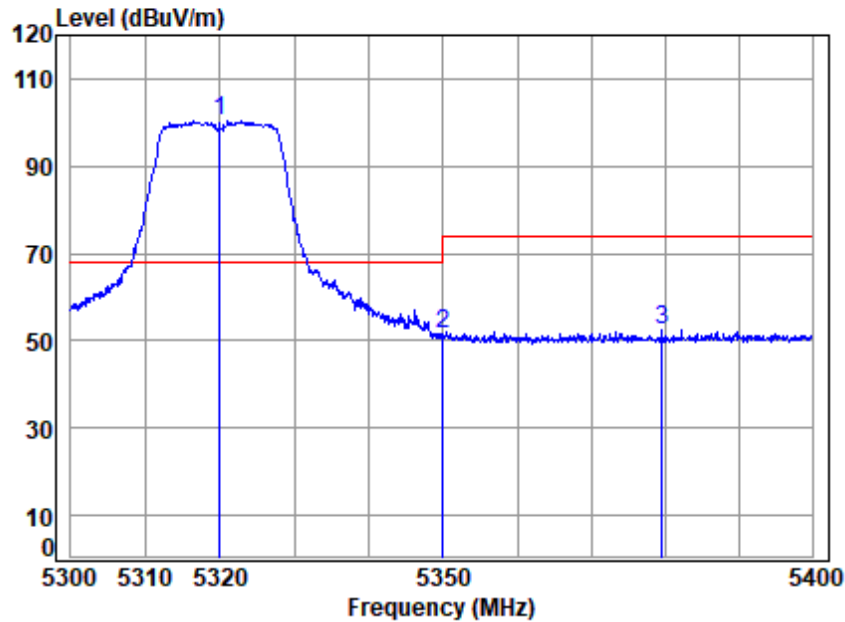
Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5320 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5320.000	7.68	34.28	35.22	85.44	92.18	-----	-----	Average
2 q 5350.020	7.70	34.40	35.21	32.69	39.58	54.00	-14.42	Average
3 5351.167	7.71	34.40	35.21	32.57	39.47	54.00	-14.53	Average

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



Site : chamber

Condition: 3m VERTICAL

Job No : 01176AT

Mode : 5320 Band edge

: 5G WIFI 11A

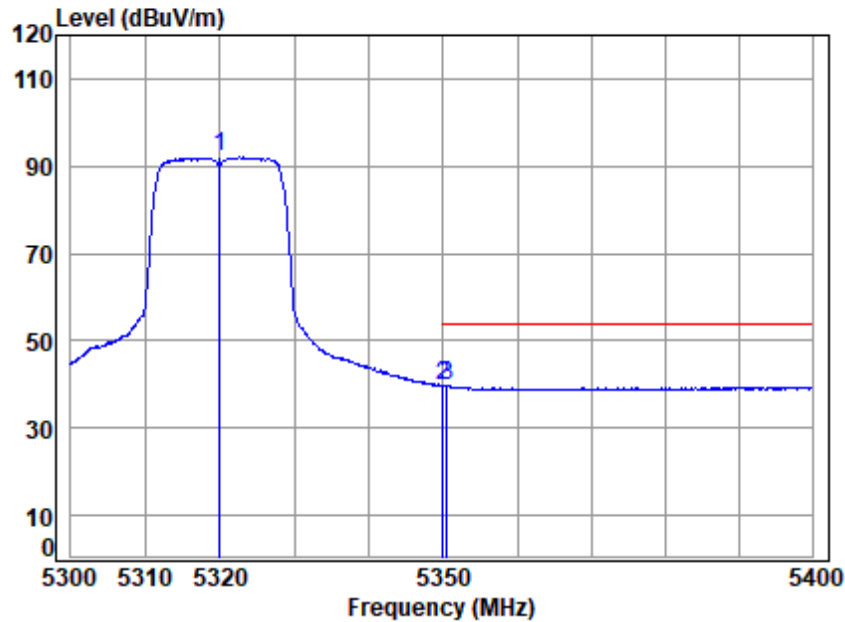
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5320.000	7.68	34.28	35.22	93.57	100.31	68.20	32.11	Peak
2 5350.020	7.70	34.40	35.21	44.70	51.59	74.00	-22.41	Peak
3 5379.649	7.73	34.52	35.19	45.27	52.33	74.00	-21.67	Peak



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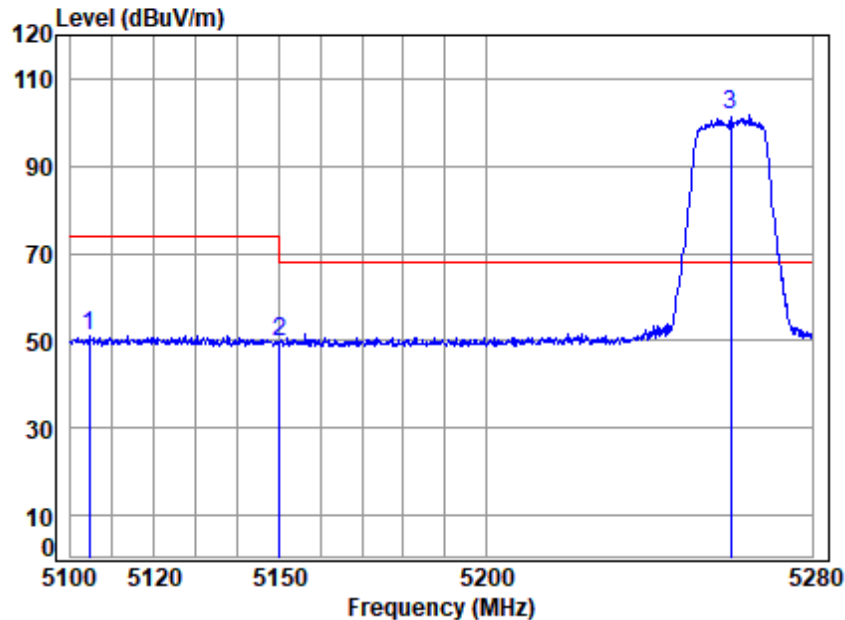
Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01176AT
 Mode : 5320 Band edge
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	7.68	34.28	35.22	85.33	92.07	-----	-----	Average
2	5350.020	7.70	34.40	35.21	32.79	39.68	54.00	-14.32	Average
3 q	5350.566	7.71	34.40	35.21	32.84	39.74	54.00	-14.26	Average

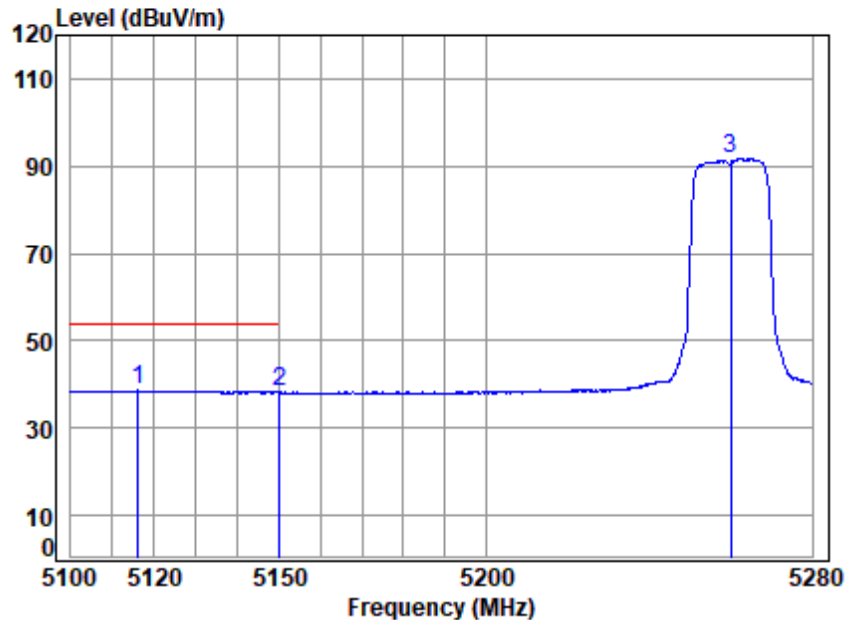
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5260 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5104.424	7.51	33.99	35.33	45.00	51.17	74.00	-22.83	peak
2	5149.980	7.55	33.90	35.31	43.68	49.82	74.00	-24.18	peak
3 p	5260.000	7.64	34.12	35.25	95.03	101.54	68.20	33.34	peak

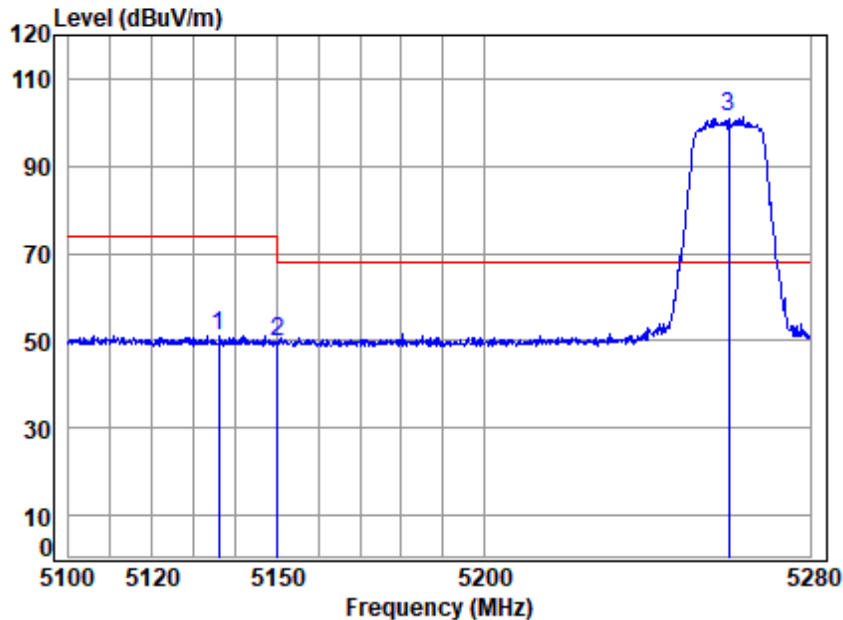
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5260 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5116.123	7.52	33.97	35.33	32.42	38.58	54.00	-15.42	Average
2 5149.980	7.55	33.90	35.31	32.11	38.25	54.00	-15.75	Average
3 5260.000	7.64	34.12	35.25	85.36	91.87	-----	-----	Average

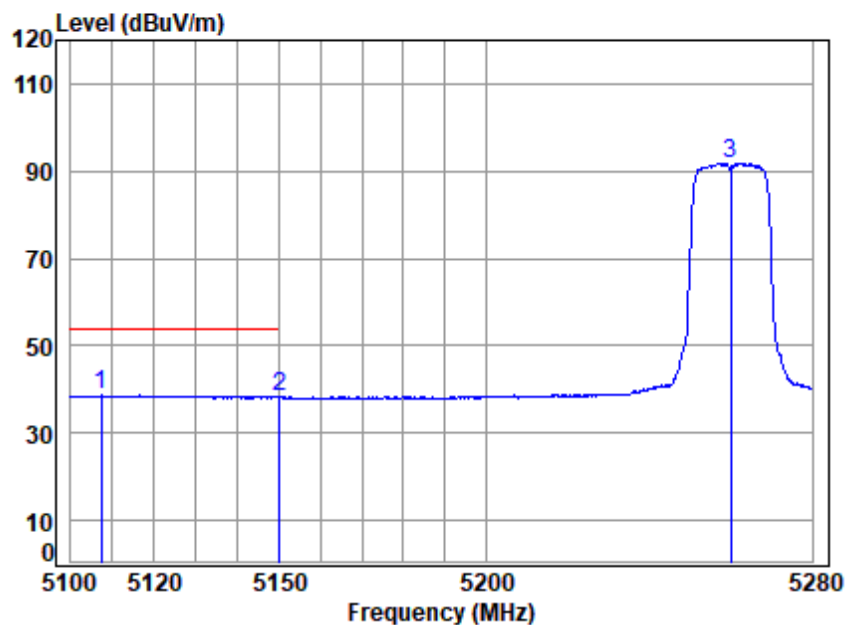
Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5260 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5136.037	7.54	33.93	35.32	45.13	51.28	74.00	-22.72	Peak
2	5149.980	7.55	33.90	35.31	43.67	49.81	74.00	-24.19	Peak
3 p	5260.000	7.64	34.12	35.25	94.86	101.37	68.20	33.17	Peak

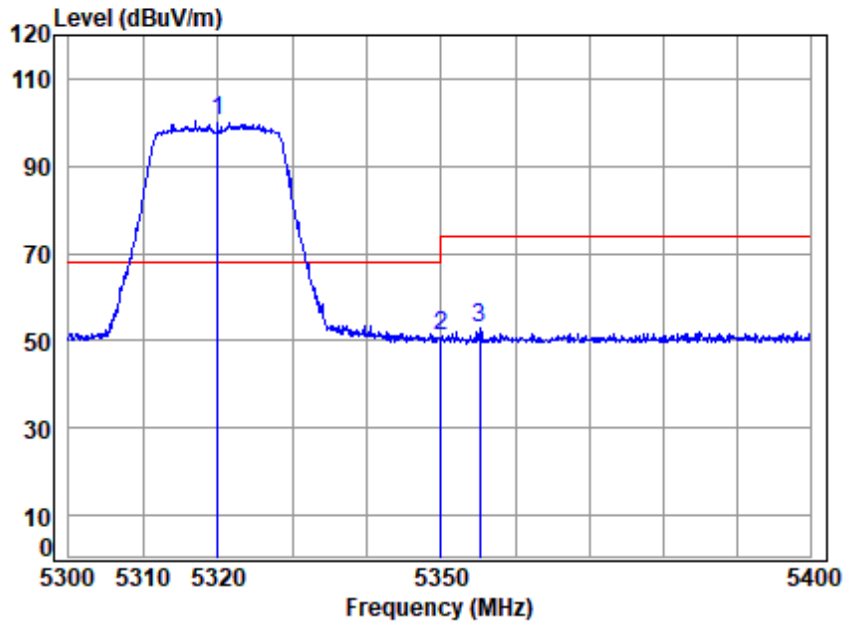
Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5260 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	5107.258	7.52	33.99	35.33	32.40	38.58	54.00	-15.42	Average
2	5149.980	7.55	33.90	35.31	32.27	38.41	54.00	-15.59	Average
3	5260.000	7.64	34.12	35.25	85.31	91.82	-----	-----	Average

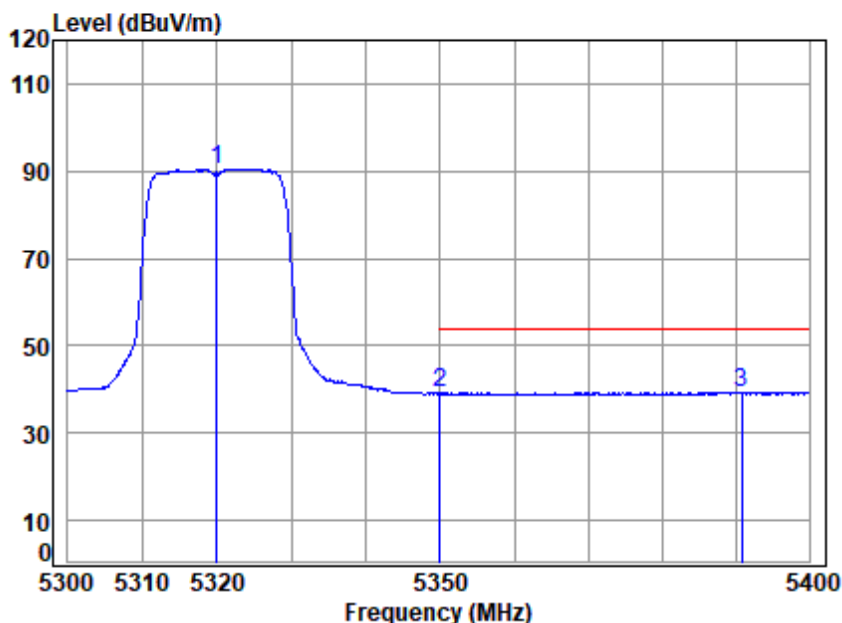
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5320 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5320.000	7.68	34.28	35.22	93.60	100.34	68.20	32.14	peak
2 5350.020	7.70	34.40	35.21	44.12	51.01	74.00	-22.99	peak
3 5355.169	7.71	34.42	35.21	45.85	52.77	74.00	-21.23	peak

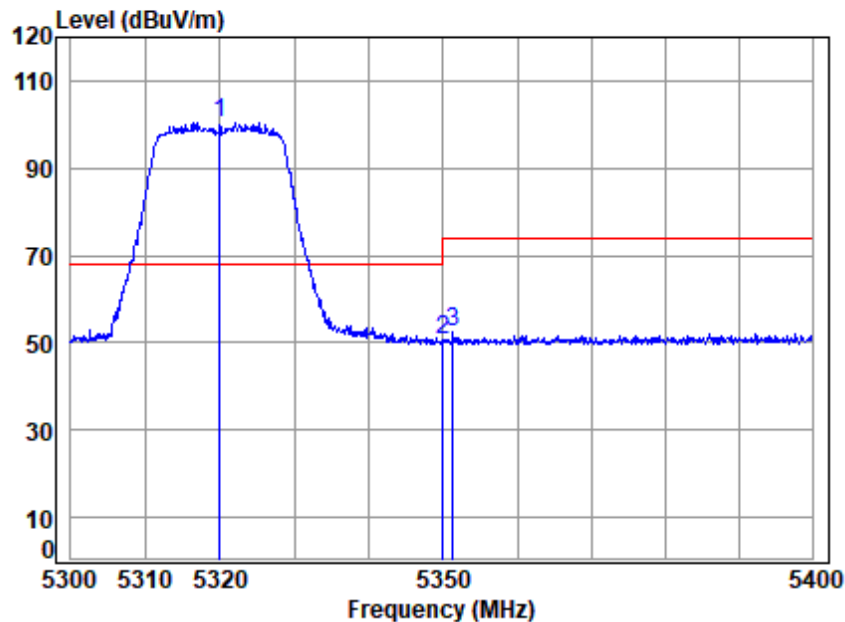
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5320 Band edge
: 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	7.68	34.28	35.22	83.82	90.56	-----	-----	Average
2	5350.020	7.70	34.40	35.21	32.17	39.06	54.00	-14.94	Average
3 q	5390.822	7.74	34.56	35.19	32.21	39.32	54.00	-14.68	Average

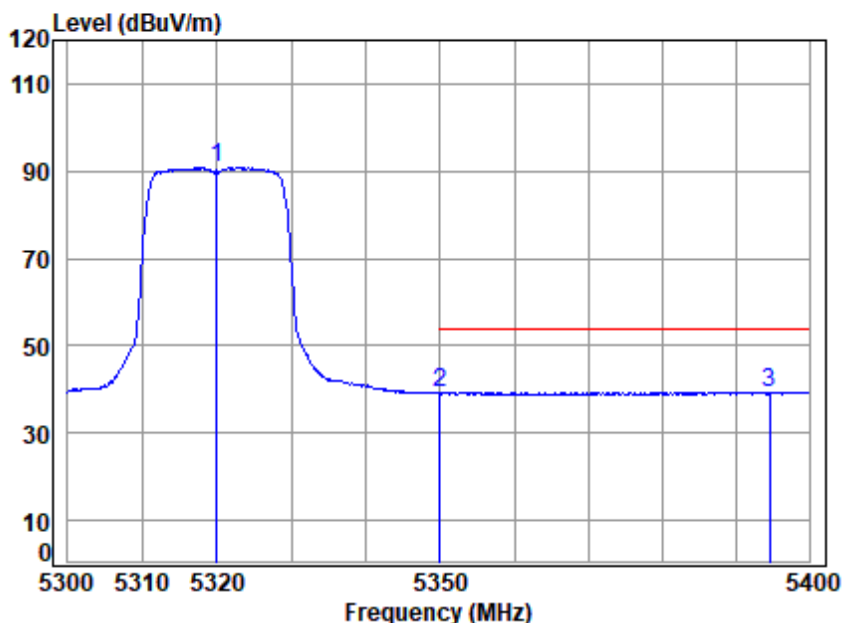
Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5320 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5320.000	7.68	34.28	35.22	93.52	100.26	68.20	32.06 Peak
2	5350.020	7.70	34.40	35.21	43.84	50.73	74.00	-23.27 Peak
3	5351.367	7.71	34.41	35.21	45.72	52.63	74.00	-21.37 Peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5320 Band edge
: 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	7.68	34.28	35.22	84.12	90.86	-----	-----	Average
2	5350.020	7.70	34.40	35.21	32.38	39.27	54.00	-14.73	Average
3 q	5394.653	7.74	34.58	35.19	32.24	39.37	54.00	-14.63	Average

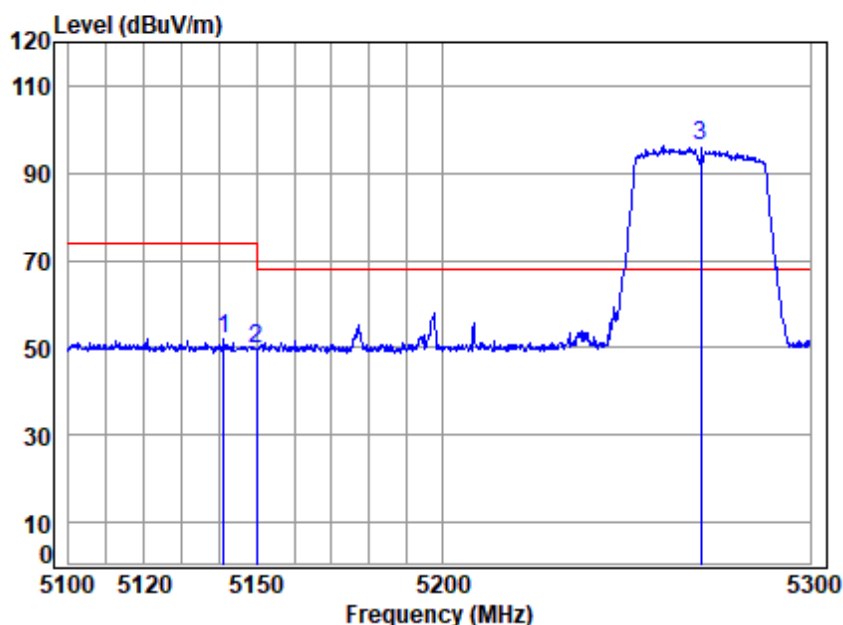
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5270 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5141.167	7.54	33.92	35.32	45.96	52.10	74.00	-21.90	peak
2	5149.980	7.55	33.90	35.31	43.71	49.85	74.00	-24.15	peak
3 p	5270.000	7.64	34.14	35.25	89.55	96.08	68.20	27.88	peak



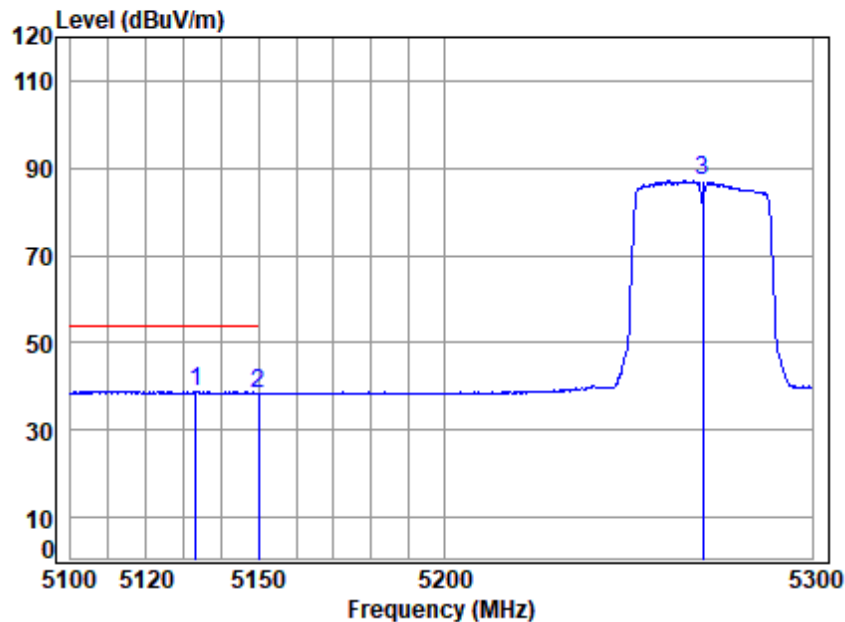
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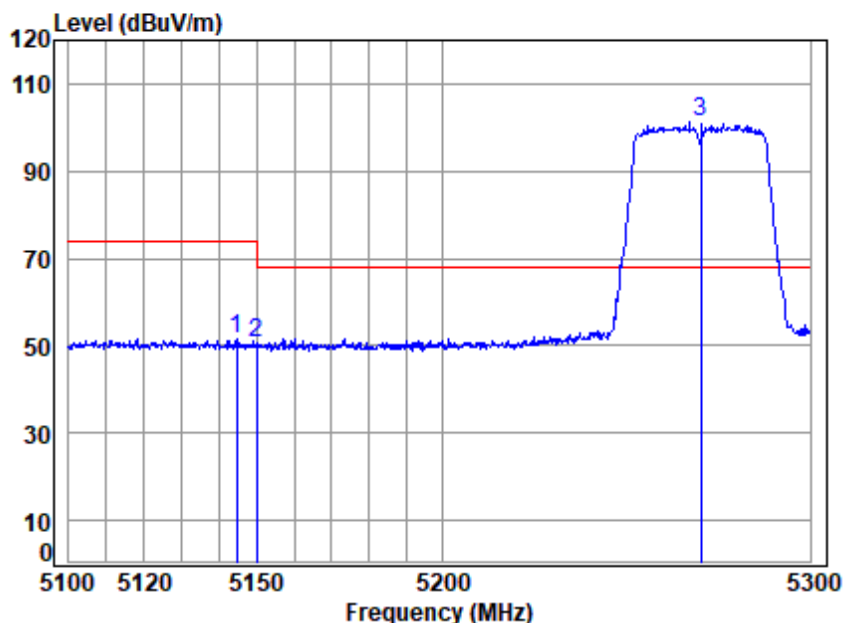
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5270 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5133.262	7.54	33.93	35.32	32.63	38.78	54.00	-15.22	Average
2 5149.980	7.55	33.90	35.31	32.38	38.52	54.00	-15.48	Average
3 5270.000	7.64	34.14	35.25	80.54	87.07	-----	-----	Average

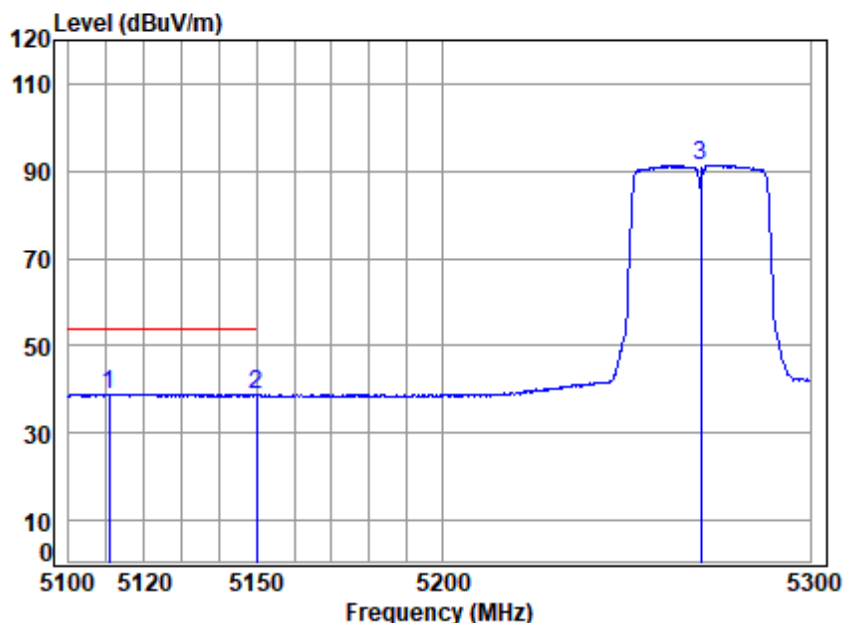
Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5270 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5144.529	7.55	33.91	35.31	45.35	51.50	74.00	-22.50	Peak
2	5149.980	7.55	33.90	35.31	44.64	50.78	74.00	-23.22	Peak
3 p	5270.000	7.64	34.14	35.25	94.60	101.13	68.20	32.93	Peak

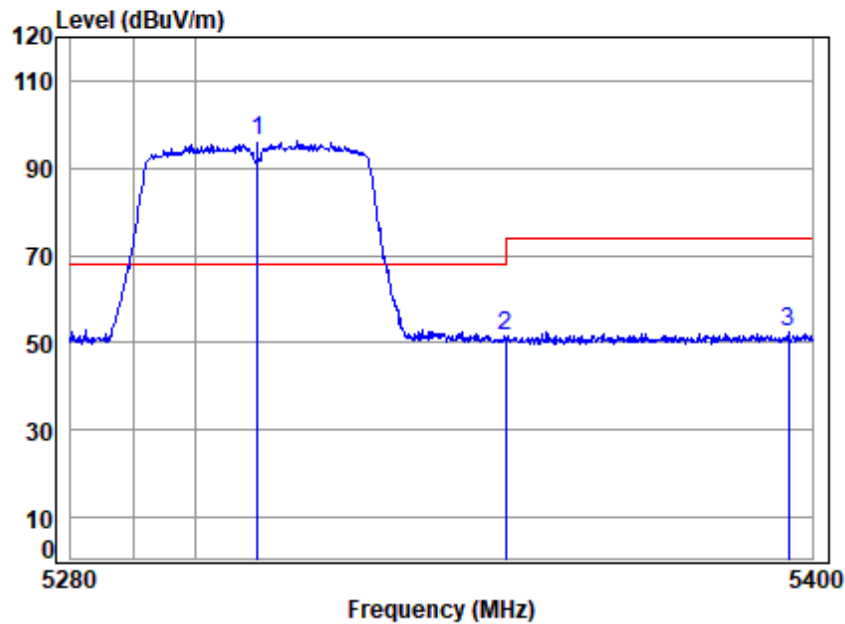
Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5270 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5110.604	7.52	33.98	35.33	32.79	38.96	54.00	-15.04	Average
2 5149.980	7.55	33.90	35.31	32.68	38.82	54.00	-15.18	Average
3 5270.000	7.64	34.14	35.25	84.89	91.42	-----	-----	Average

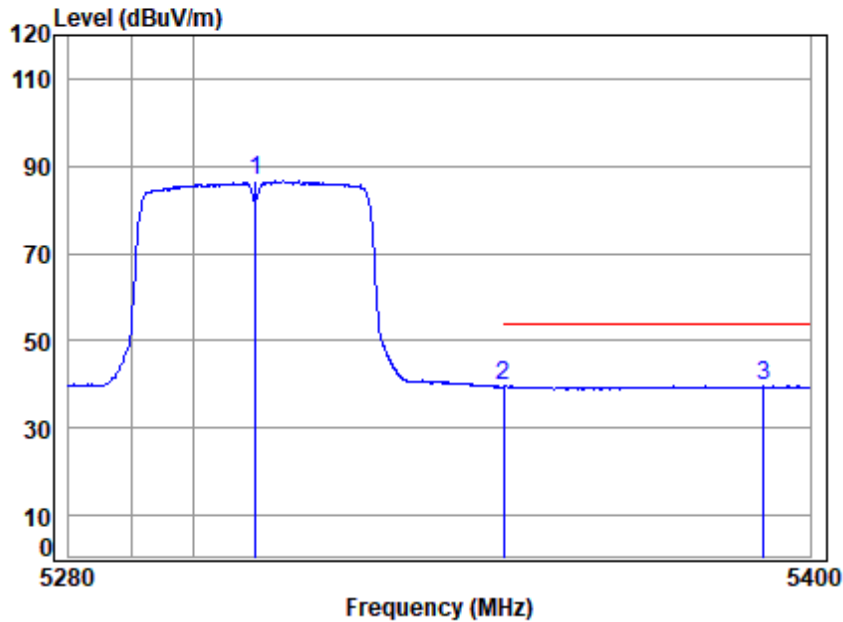
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5310 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5310.000	7.67	34.24	35.23	89.55	96.23	68.20	28.03	peak
2 5350.020	7.70	34.40	35.21	44.82	51.71	74.00	-22.29	peak
3 5396.118	7.74	34.58	35.19	45.39	52.52	74.00	-21.48	peak

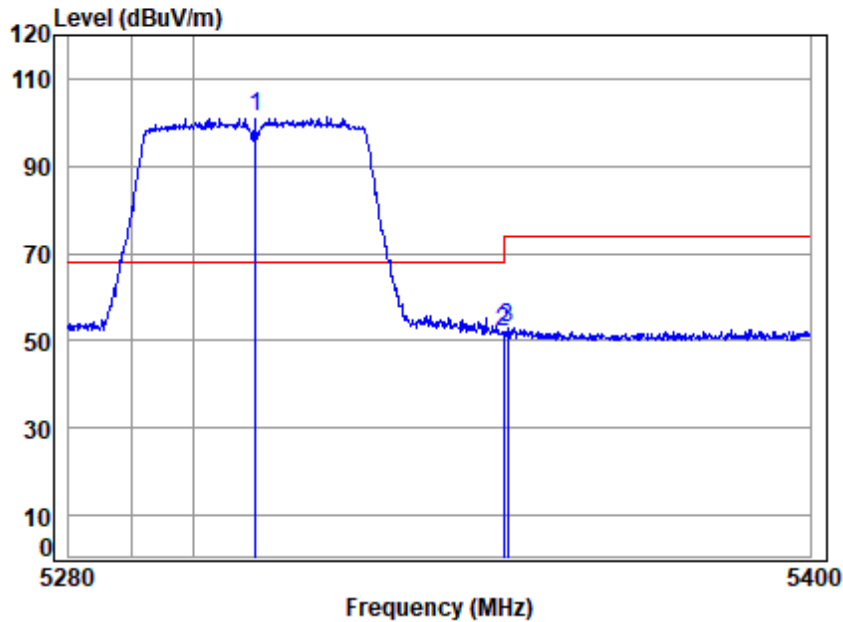
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5310 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	7.67	34.24	35.23	79.86	86.54	-----	-----	Average
2	5350.020	7.70	34.40	35.21	32.65	39.54	54.00	-14.46	Average
3 q	5392.360	7.74	34.57	35.19	32.56	39.68	54.00	-14.32	Average

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



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5310 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5310.000	7.67	34.24	35.23	94.43	101.11	68.20	32.91	Peak
2 5350.020	7.70	34.40	35.21	45.29	52.18	74.00	-21.82	Peak
3 5350.714	7.71	34.40	35.21	45.91	52.81	74.00	-21.19	Peak

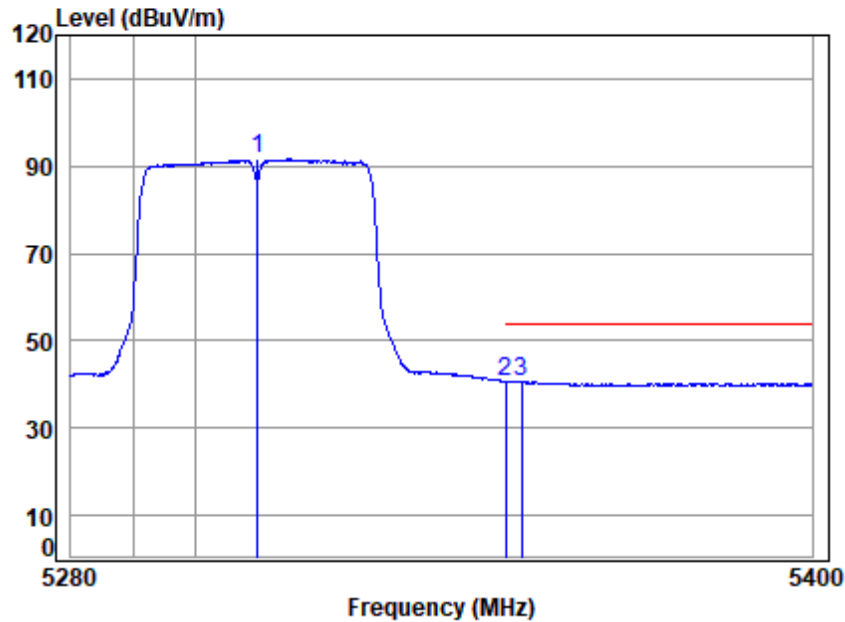
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Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5310 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	7.67	34.24	35.23	84.87	91.55	-----	Average
2 q	5350.020	7.70	34.40	35.21	33.87	40.76	54.00	-13.24 Average
3	5352.638	7.71	34.41	35.21	33.85	40.76	54.00	-13.24 Average



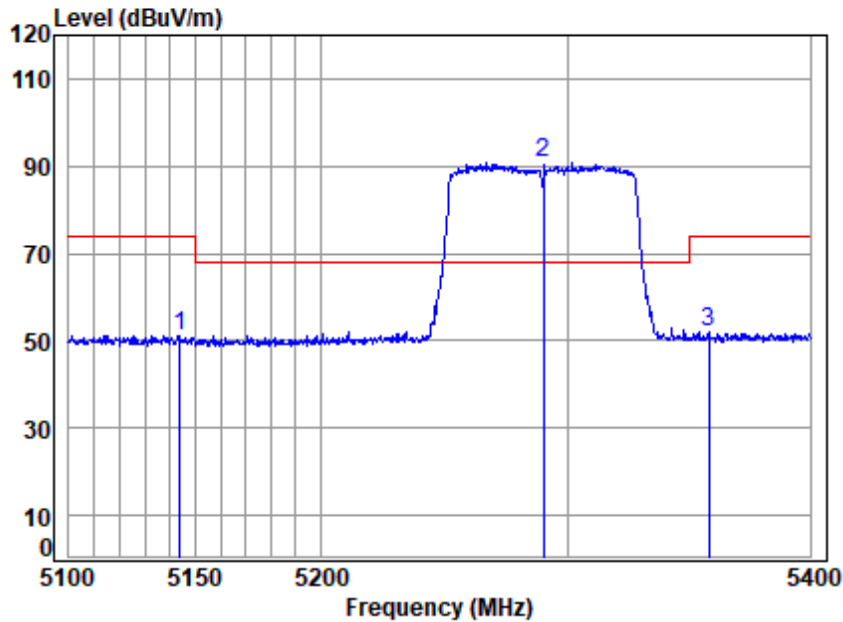
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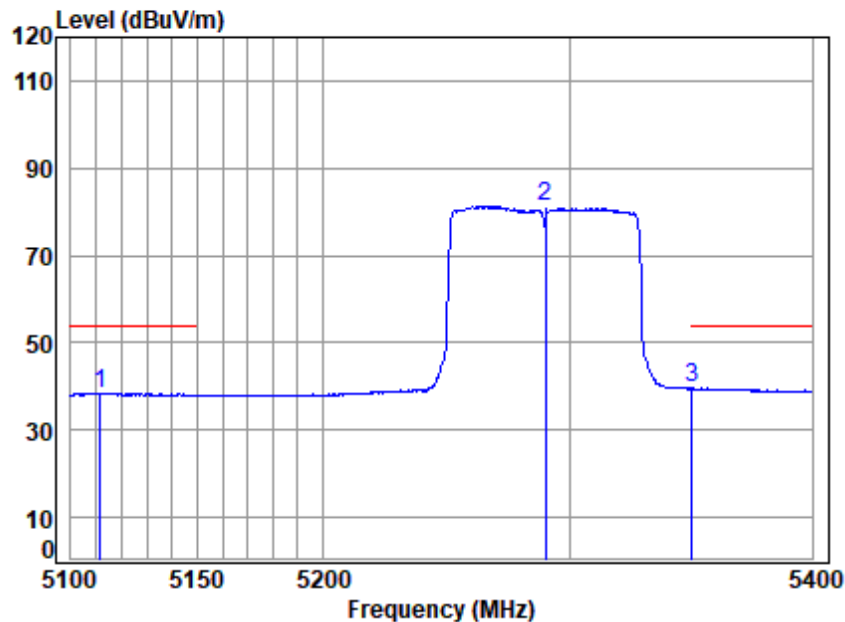
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5290 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5143.914	7.55	33.91	35.31	44.97	51.12	74.00	-22.88 peak
2 p	5290.000	7.66	34.18	35.24	84.15	90.75	68.20	22.55 peak
3	5357.879	7.71	34.43	35.20	45.29	52.23	74.00	-21.77 peak

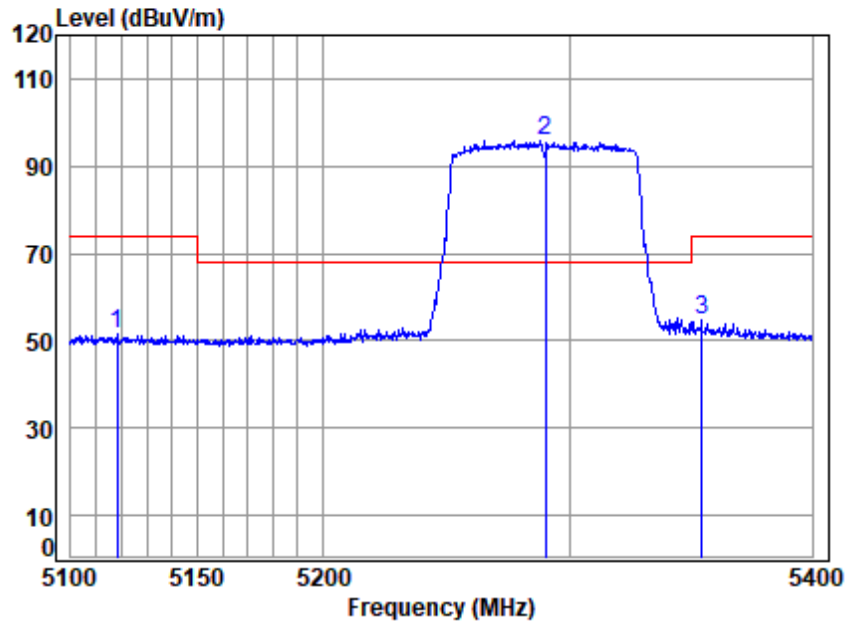
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5290 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5111.674	7.52	33.98	35.33	32.20	38.37	54.00	-15.63 Average
2	5290.000	7.66	34.18	35.24	74.81	81.41	-----	----- Average
3 q	5350.229	7.70	34.40	35.21	32.67	39.56	54.00	-14.44 Average

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

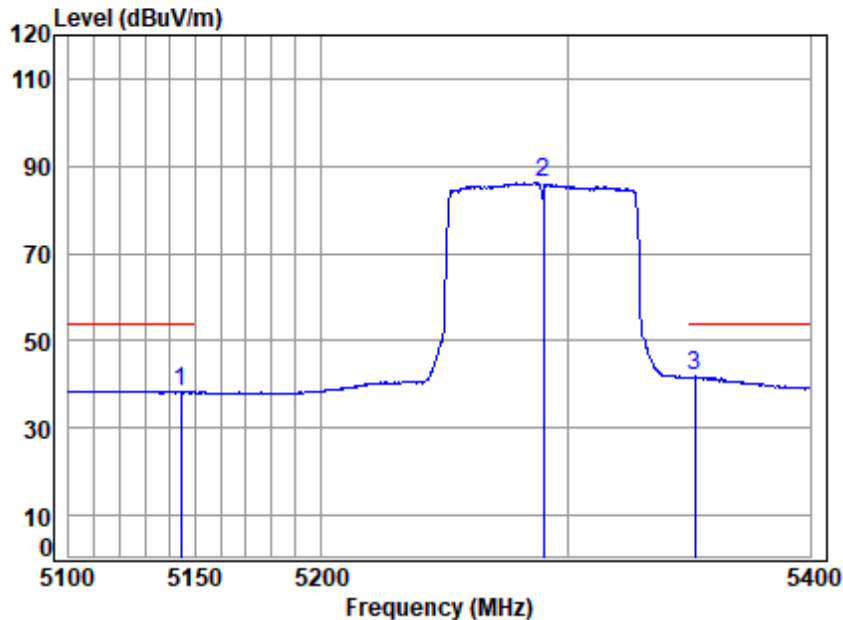


Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5290 Band edge
: 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5118.105	7.52	33.96	35.33	45.34	51.49	74.00	-22.51	Peak
2 p	5290.000	7.66	34.18	35.24	89.42	96.02	68.20	27.82	Peak
3	5354.206	7.71	34.42	35.21	47.70	54.62	74.00	-19.38	Peak



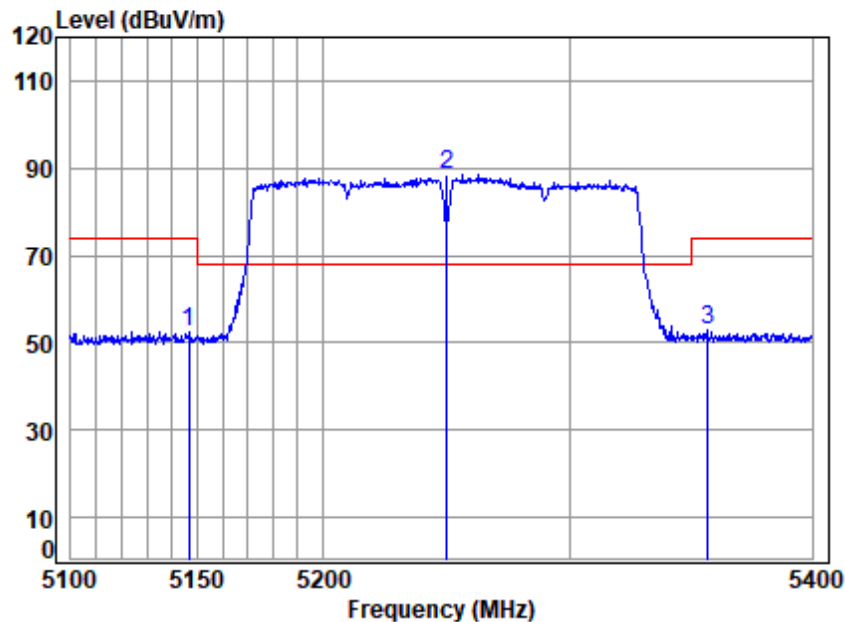
Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5290 Band edge
: 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5144.208	7.55	33.91	35.31	32.30	38.45	54.00	-15.55	Average
2	5290.000	7.66	34.18	35.24	79.63	86.23	-----	-----	Average
3 q	5352.370	7.71	34.41	35.21	34.86	41.77	54.00	-12.23	Average

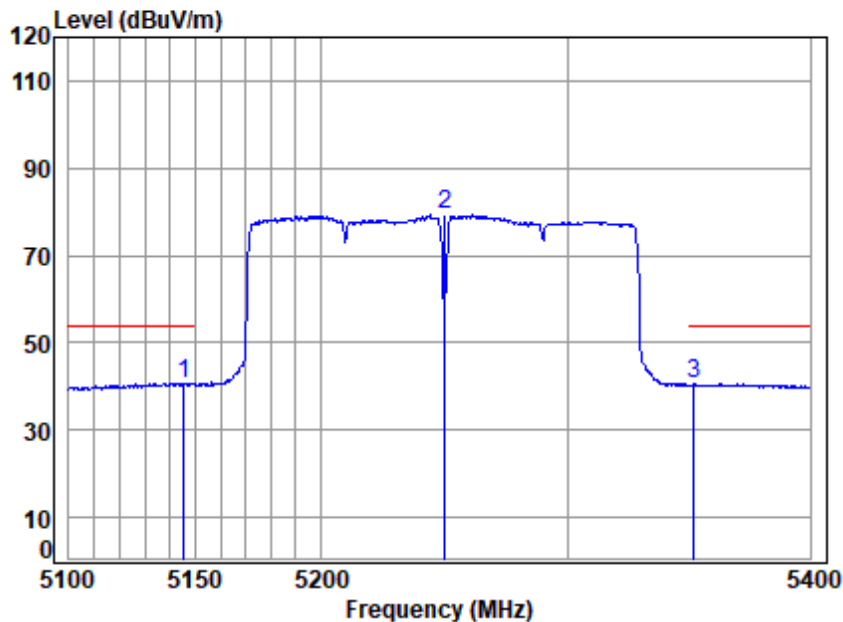
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5250 Band edge
: 5G WIFI 11AC160

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5146.561	7.55	33.91	35.31	46.53	52.68	74.00	-21.32	peak
2 p 5250.000	7.63	34.10	35.26	82.06	88.53	68.20	20.33	peak
3 5356.654	7.71	34.43	35.20	45.89	52.83	74.00	-21.17	peak

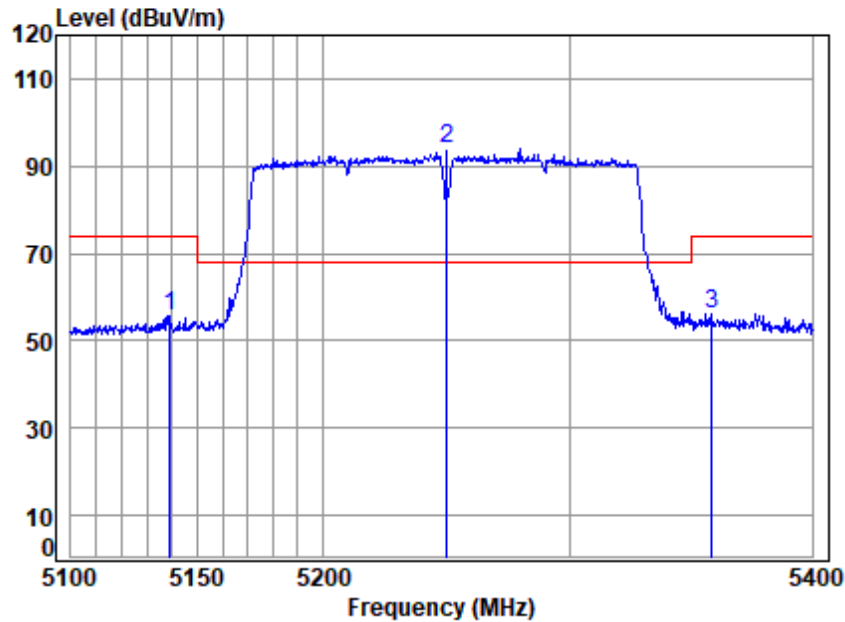
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5250 Band edge
: 5G WIFI 11AC160

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5145.384	7.55	33.91	35.31	34.61	40.76	54.00	-13.24	Average
2 5250.000	7.63	34.10	35.26	72.70	79.17	-----	-----	Average
3 5351.758	7.71	34.41	35.21	33.59	40.50	54.00	-13.50	Average

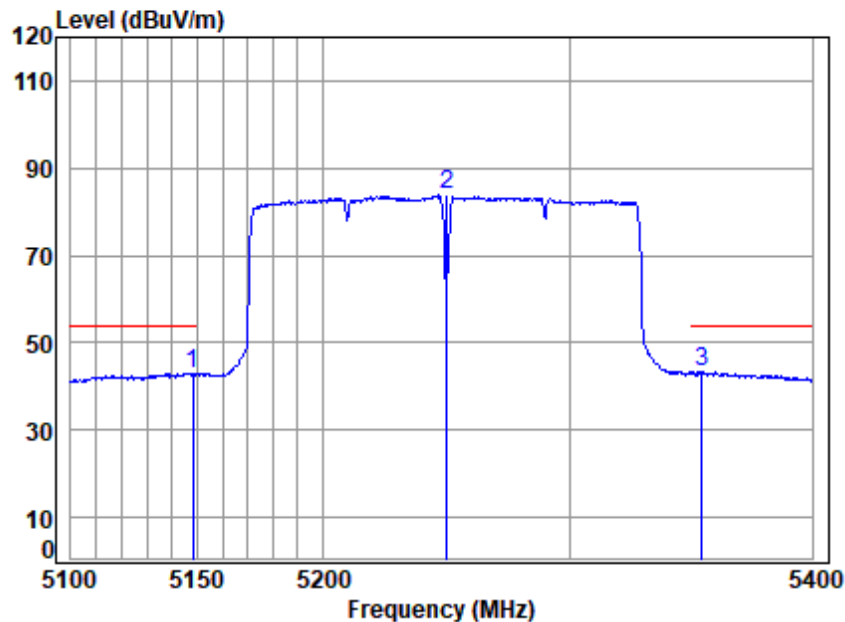
Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5250 Band edge
: 5G WIFI 11AC160

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5139.212	7.54	33.92	35.32	49.65	55.79	74.00	-18.21	Peak
2 p 5250.000	7.63	34.10	35.26	87.57	94.04	68.20	25.84	Peak
3 5358.492	7.71	34.43	35.20	49.34	56.28	74.00	-17.72	Peak

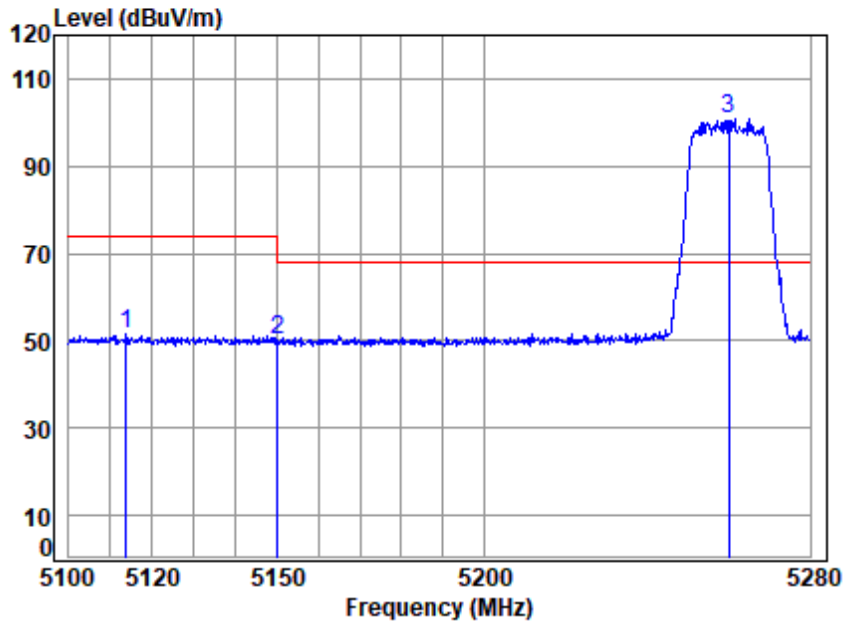
Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5250 Band edge
: 5G WIFI 11AC160

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.326	7.55	33.90	35.31	36.85	42.99	54.00	-11.01 Average
2	5250.000	7.63	34.10	35.26	77.30	83.77	-----	----- Average
3 q	5354.512	7.71	34.42	35.21	36.55	43.47	54.00	-10.53 Average

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5260 Band edge
: 5G WIFI 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5113.639	7.52	33.97	35.33	45.23	51.39	74.00	-22.61	peak
2	5149.980	7.55	33.90	35.31	44.20	50.34	74.00	-23.66	peak
3 p	5260.000	7.64	34.12	35.25	94.30	100.81	68.20	32.61	peak



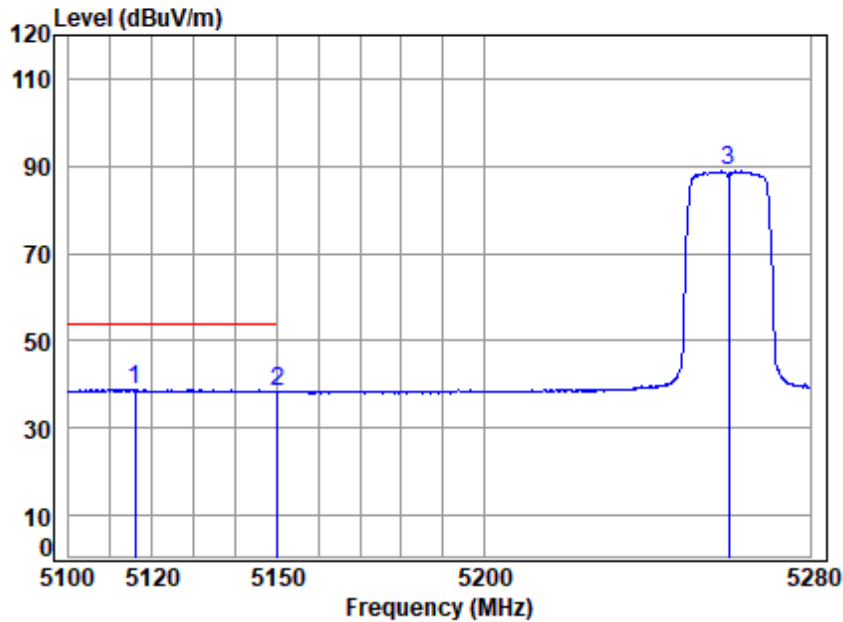
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Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5260 Band edge
: 5G WIFI 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5115.768		7.52	33.97	35.33	32.60	38.76	54.00	-15.24	Average
2 5149.980		7.55	33.90	35.31	32.17	38.31	54.00	-15.69	Average
3 5260.000		7.64	34.12	35.25	82.34	88.85	-----	-----	Average



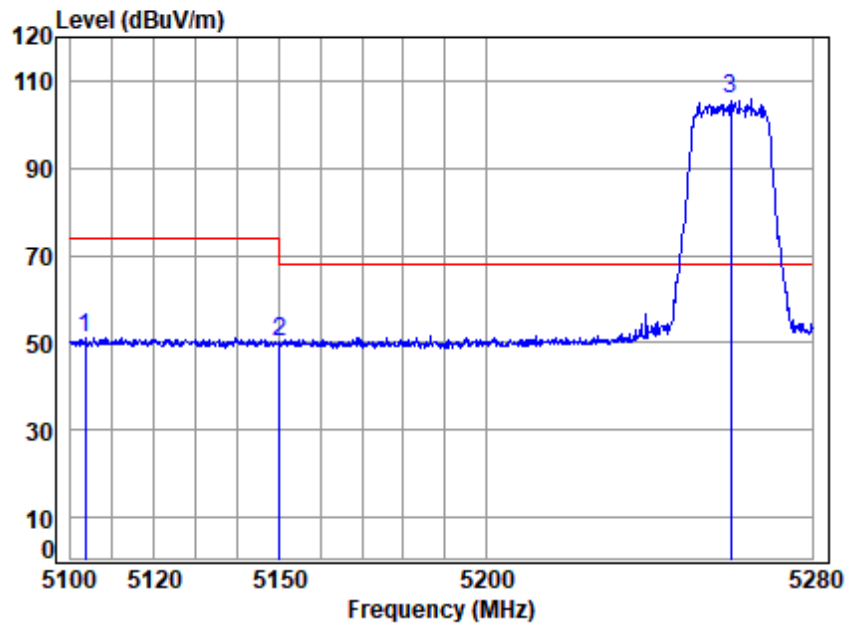
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Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5260 Band edge
: 5G WIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5103.362	7.51	33.99	35.34	45.16	51.32	74.00	-22.68	Peak
2	5149.980	7.55	33.90	35.31	43.93	50.07	74.00	-23.93	Peak
3 p	5260.000	7.64	34.12	35.25	99.18	105.69	68.20	37.49	Peak



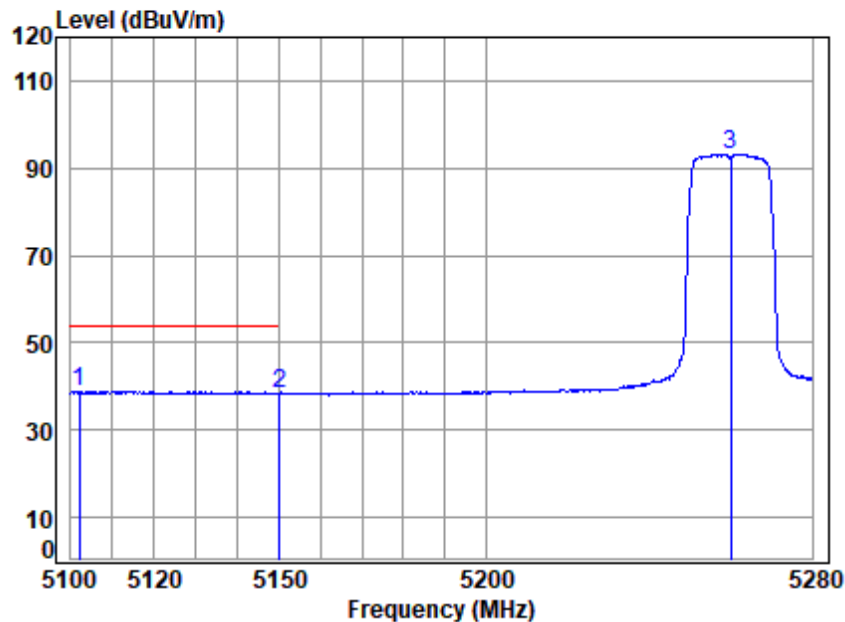
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Test Mode: 06; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5260 Band edge
: 5G WIFI 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5101.946		7.51	34.00	35.34	32.66	38.83	54.00	-15.17	Average
2 5149.980		7.55	33.90	35.31	32.32	38.46	54.00	-15.54	Average
3 5260.000		7.64	34.12	35.25	86.68	93.19	-----	-----	Average



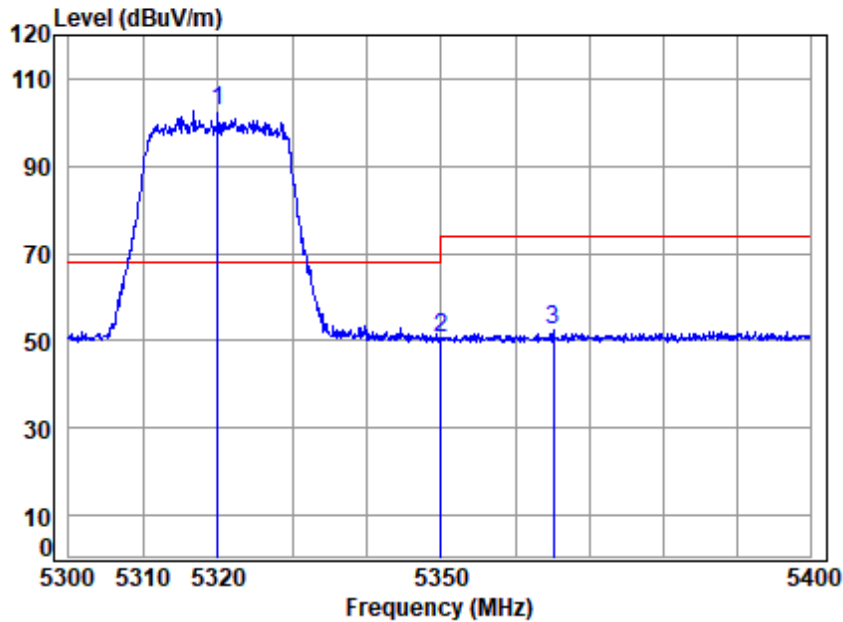
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5320 Band edge
: 5G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5320.000		7.68	34.28	35.22	95.77	102.51	68.20	34.31 peak
2 5350.020		7.70	34.40	35.21	43.94	50.83	74.00	-23.17 peak
3 5365.188		7.72	34.46	35.20	45.32	52.30	74.00	-21.70 peak

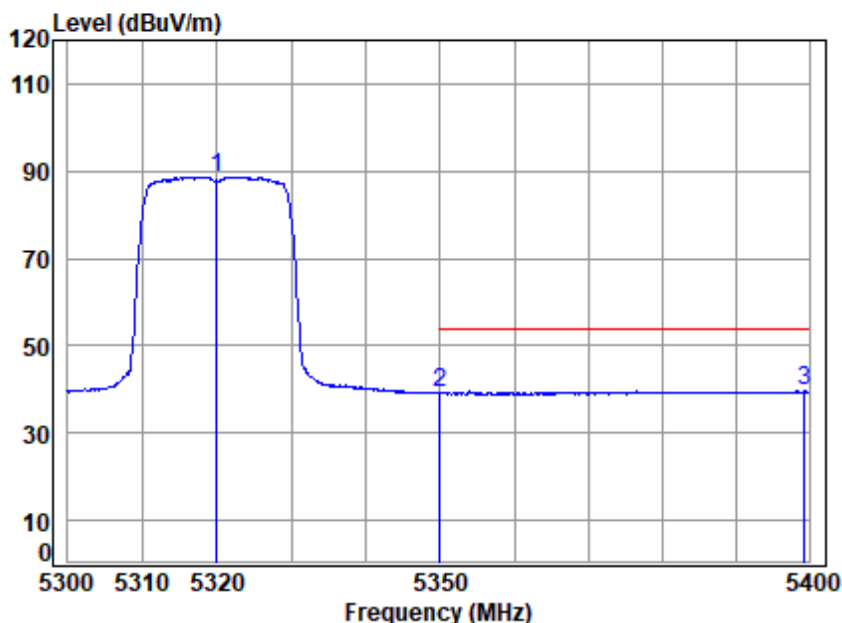
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5320 Band edge
: 5G WIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	7.68	34.28	35.22	81.99	88.73	-----	-----	Average
2	5350.020	7.70	34.40	35.21	32.39	39.28	54.00	-14.72	Average
3 q	5399.395	7.74	34.60	35.18	32.57	39.73	54.00	-14.27	Average



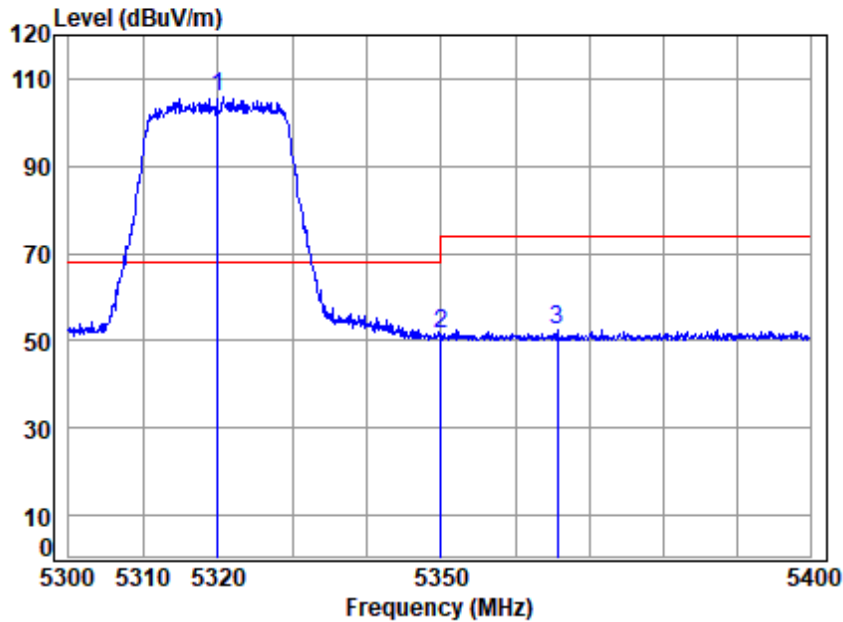
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Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5320 Band edge
: 5G WIFI 11AX20

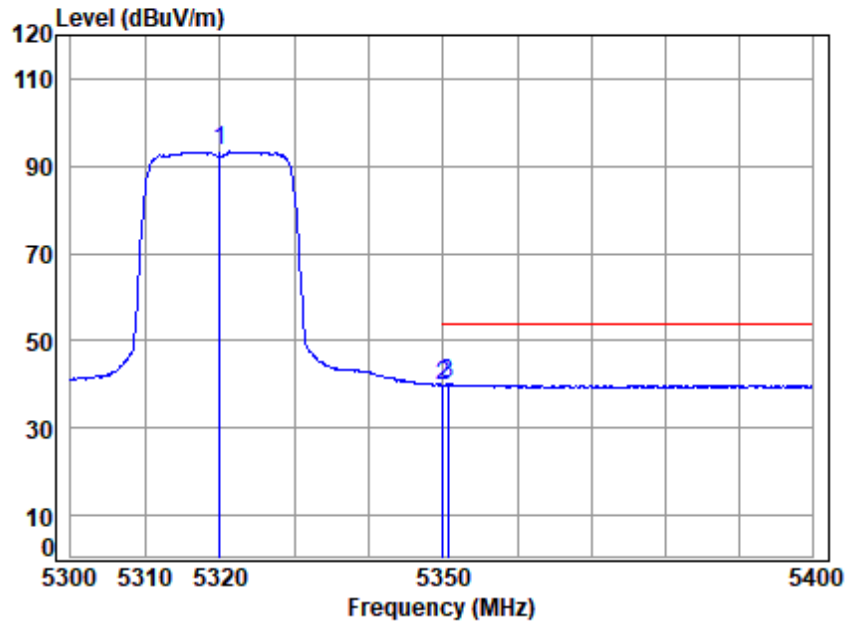
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5320.000	7.68	34.28	35.22	98.92	105.66	68.20	37.46 Peak
2	5350.020	7.70	34.40	35.21	44.49	51.38	74.00	-22.62 Peak
3	5365.690	7.72	34.46	35.20	45.55	52.53	74.00	-21.47 Peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

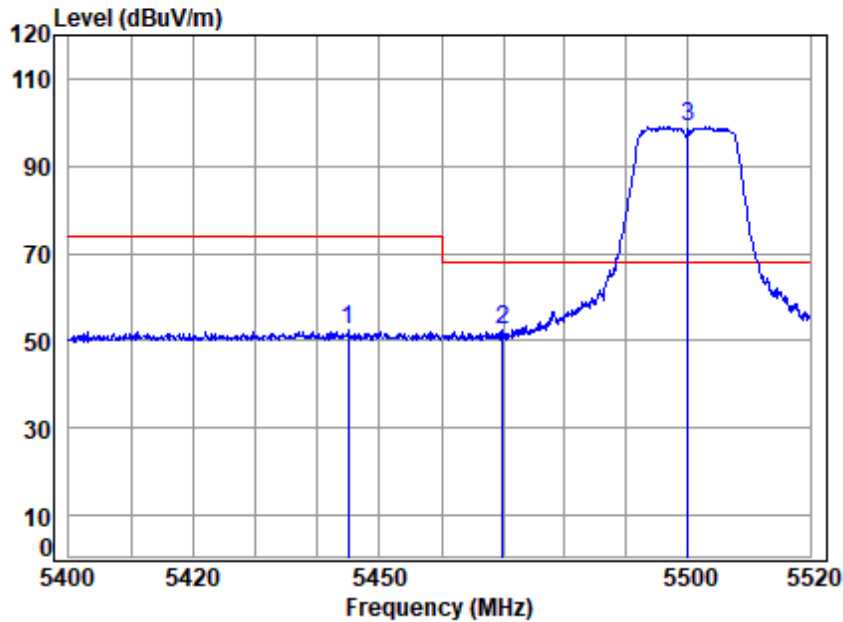


Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5320 Band edge
: 5G WIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	7.68	34.28	35.22	86.58	93.32	-----	-----	Average
2	5350.020	7.70	34.40	35.21	32.95	39.84	54.00	-14.16	Average
3 q	5350.667	7.71	34.40	35.21	33.26	40.16	54.00	-13.84	Average



Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

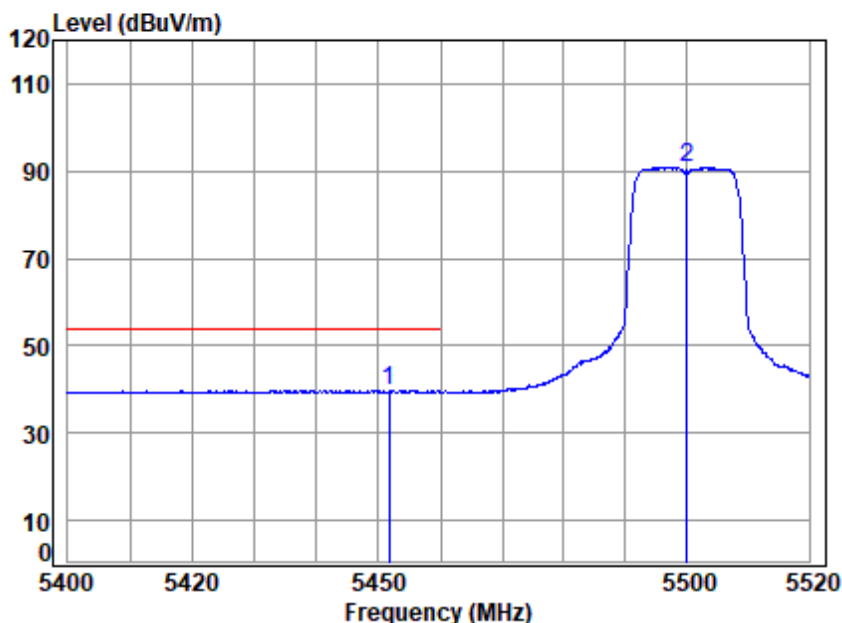


Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5500 Band edge
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5444.931	7.78	34.69	35.16	45.31	52.62	74.00	-21.38	peak
2	5469.880	7.79	34.62	35.15	45.26	52.52	68.20	-15.68	peak
3 p	5500.000	7.82	34.50	35.13	91.87	99.06	68.20	30.86	peak



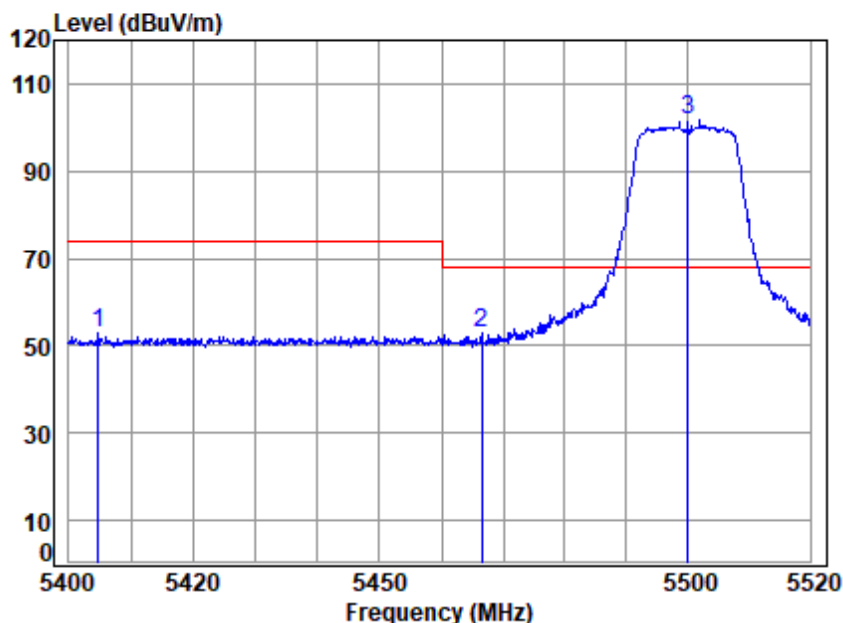
Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5500 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5451.756		7.78	34.69	35.16	32.44	39.75	54.00	-14.25 Average
2 5500.000		7.82	34.50	35.13	83.68	90.87	-----	----- Average

Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01176AT

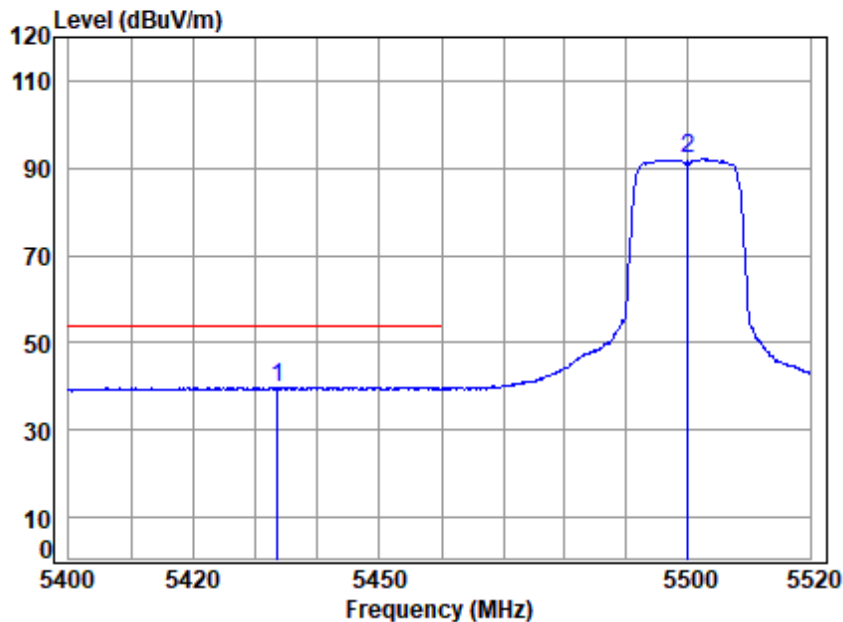
Mode : 5500 Band edge

: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5404.750	7.75	34.61	35.18	45.76	52.94	74.00	-21.06 Peak
2	5466.515	7.79	34.63	35.15	45.57	52.84	68.20	-15.36 peak
3 p	5500.000	7.82	34.50	35.13	94.61	101.80	68.20	33.60 Peak



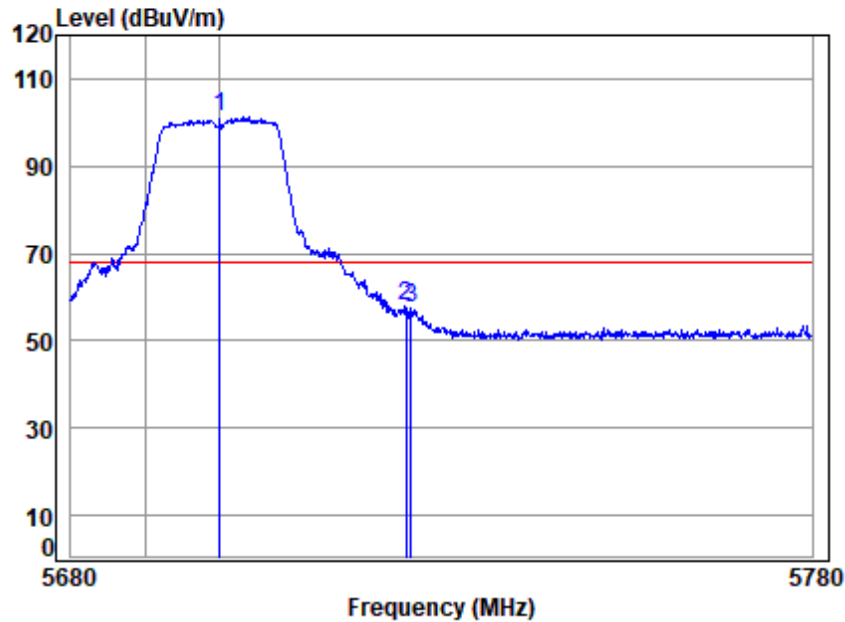
Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5500 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5433.573	7.77	34.67	35.17	32.47	39.74	54.00	-14.26	Average
2 5500.000	7.82	34.50	35.13	84.88	92.07	-----	-----	Average

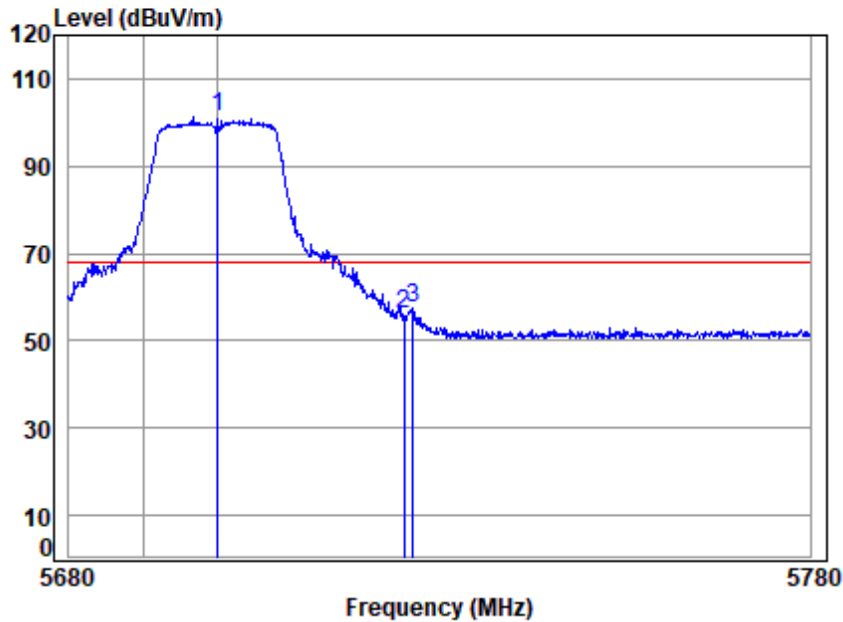
Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5700 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1 p	5700.000	7.96	34.30	35.04	93.95	101.17	68.20	32.97 peak
2	5725.000	7.98	34.25	35.03	50.74	57.94	68.20	-10.26 peak
3	5725.684	7.98	34.25	35.03	50.37	57.57	68.20	-10.63 peak

Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5700 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5700.000	7.96	34.30	35.04	93.97	101.19	68.20	32.99	Peak
2 5725.000	7.98	34.25	35.03	49.04	56.24	68.20	-11.96	Peak
3 5726.283	7.98	34.25	35.03	50.11	57.31	68.20	-10.89	Peak

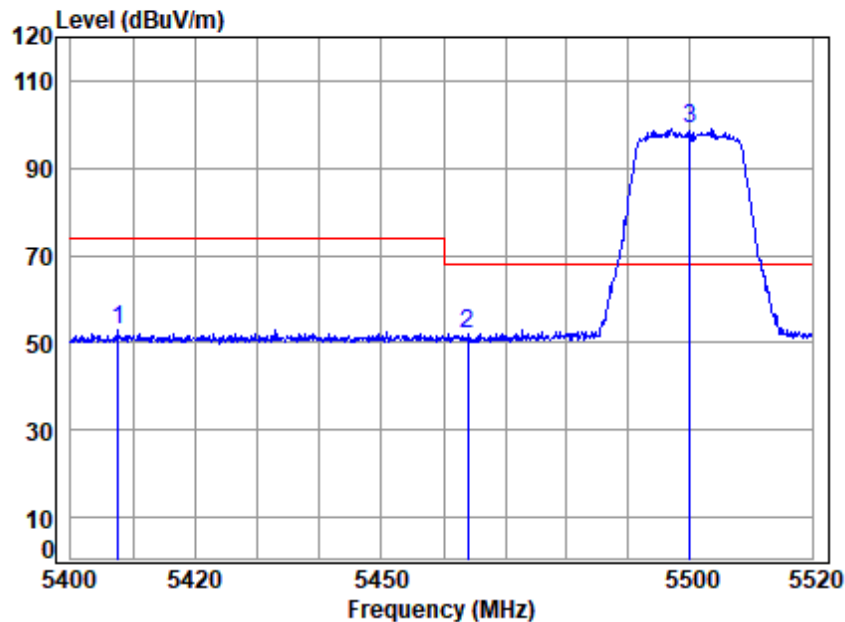
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01176AT
 Mode : 5500 Band edge
 : 5G WIFI 11AC20

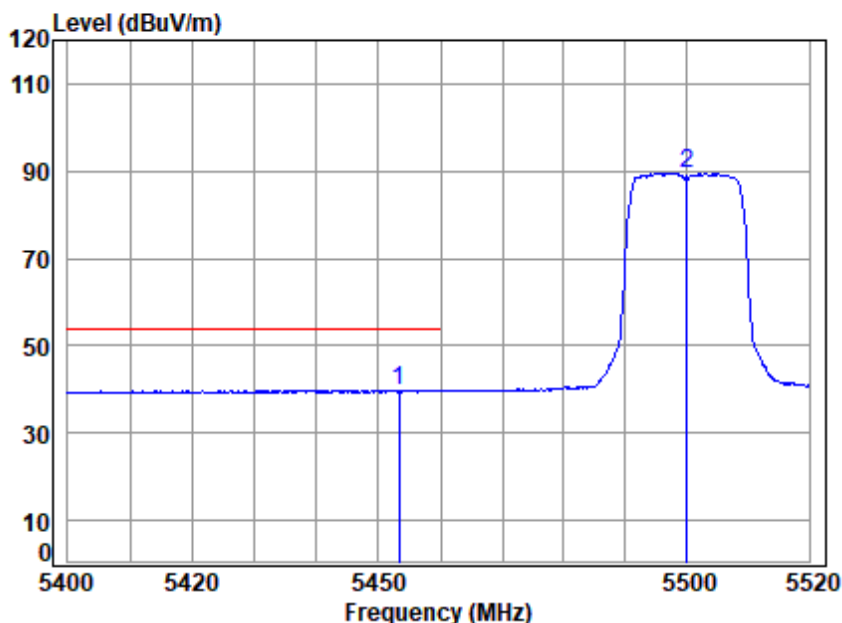
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5407.601	7.75	34.62	35.18	45.62	52.81	74.00	-21.19	peak
2	5463.992	7.79	34.64	35.15	44.90	52.18	68.20	-16.02	peak
3 p	5500.000	7.82	34.50	35.13	91.79	98.98	68.20	30.78	peak



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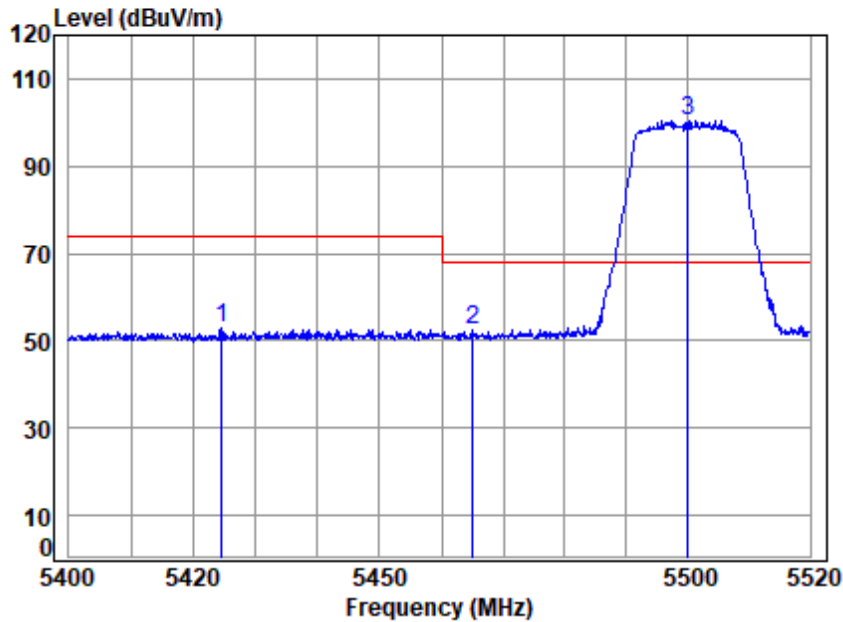
Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5500 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5453.314	7.78	34.69	35.16	32.53	39.84	54.00	-14.16	Average
2 5500.000	7.82	34.50	35.13	82.39	89.58	-----	-----	Average

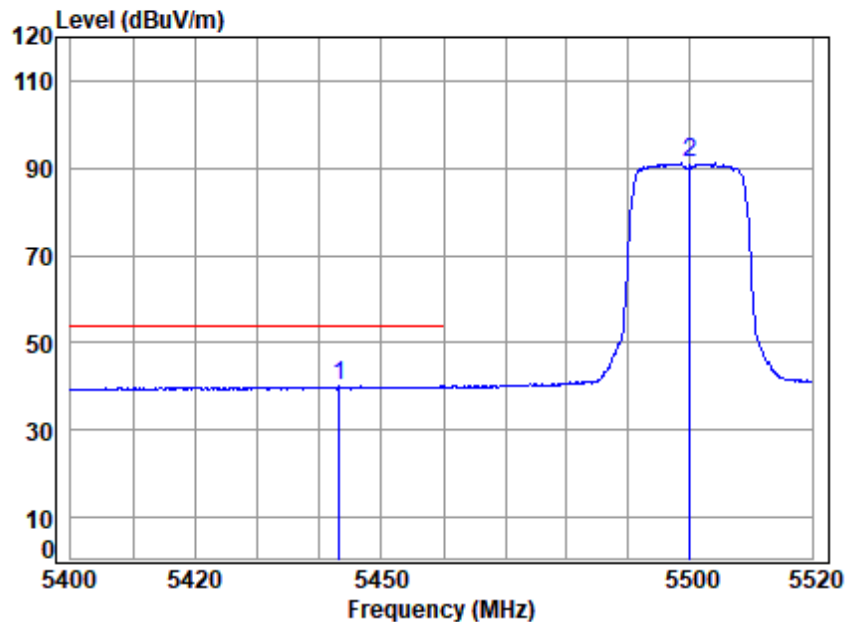
Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5500 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5424.624	7.76	34.65	35.17	45.60	52.84	74.00	-21.16	Peak
2	5465.073	7.79	34.64	35.15	44.98	52.26	68.20	-15.94	peak
3 p	5500.000	7.82	34.50	35.13	93.38	100.57	68.20	32.37	Peak

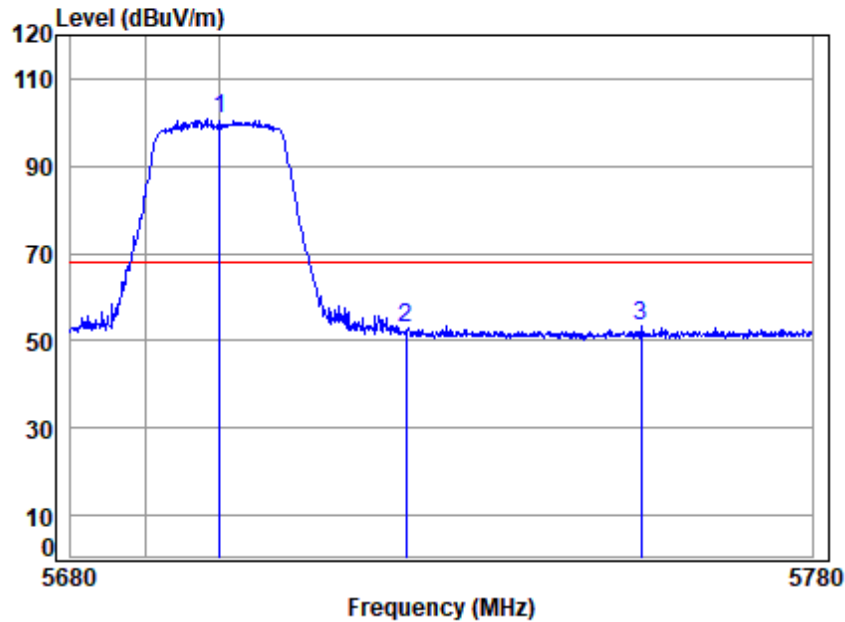
Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5500 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5443.136	7.77	34.69	35.16	32.69	39.99	54.00	-14.01	Average
2 5500.000	7.82	34.50	35.13	83.88	91.07	-----	-----	Average

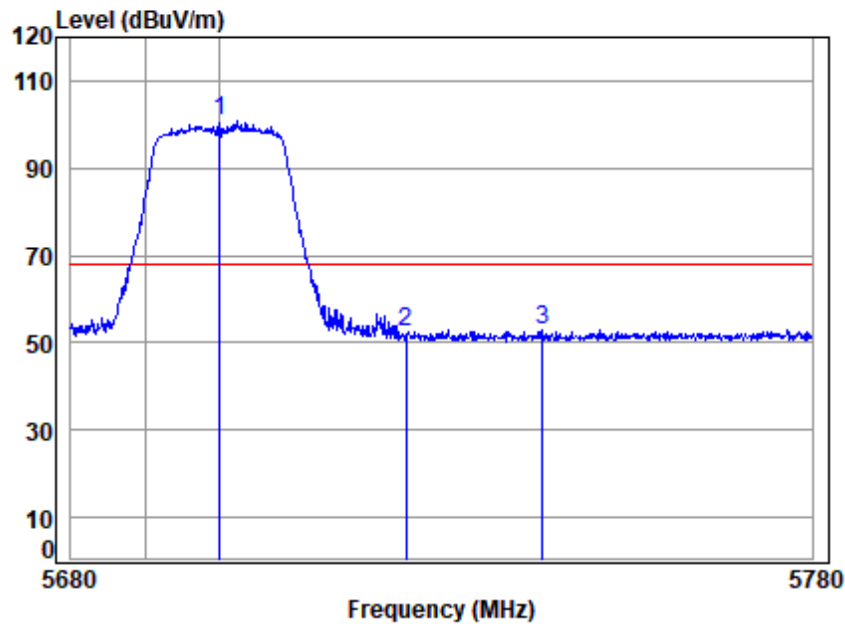
Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5700 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5700.000	7.96	34.30	35.04	93.55	100.77	68.20	32.57 peak
2	5725.000	7.98	34.25	35.03	45.74	52.94	68.20	-15.26 peak
3	5756.745	8.00	34.21	35.01	46.34	53.54	68.20	-14.66 peak

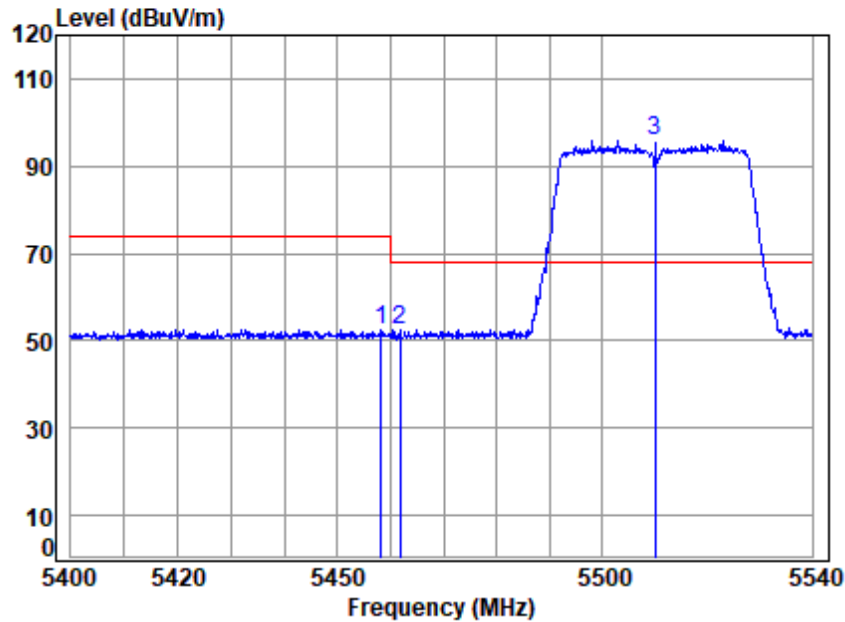
Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5700 Band edge
: 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5700.000	7.96	34.30	35.04	93.41	100.63	68.20	32.43	Peak
2	5725.000	7.98	34.25	35.03	45.22	52.42	68.20	-15.78	Peak
3	5743.398	7.99	34.21	35.02	45.85	53.03	68.20	-15.17	Peak

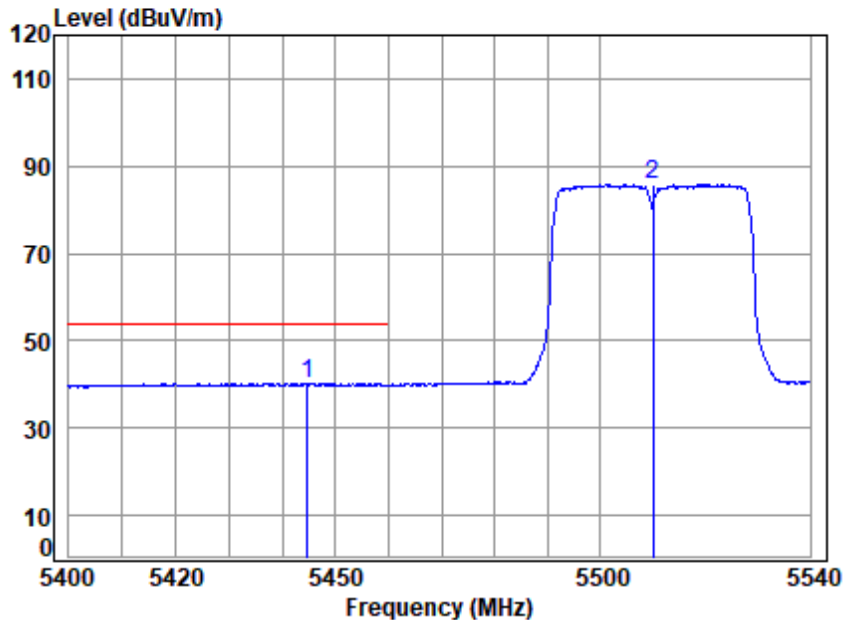
Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5510 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5458.224	7.79	34.67	35.15	45.36	52.67	74.00	-21.33 peak
2	5461.718	7.79	34.65	35.15	45.37	52.66	68.20	-15.54 peak
3 p	5510.000	7.82	34.54	35.13	88.71	95.94	68.20	27.74 peak

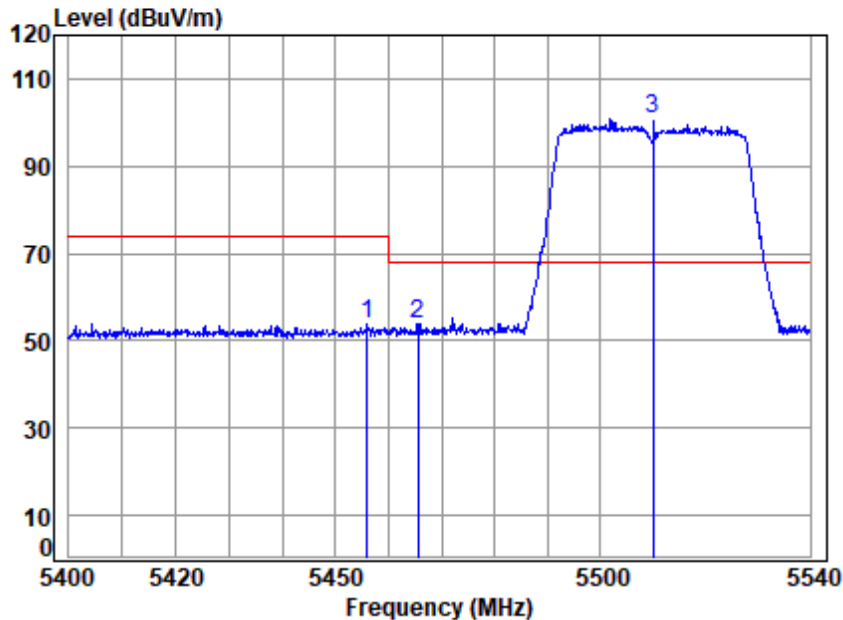
Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5510 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5444.689	7.78	34.69	35.16	32.90	40.21	54.00	-13.79	Average
2 5510.000	7.82	34.54	35.13	78.52	85.75	-----	-----	Average

Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5510 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5455.989	7.78	34.68	35.16	46.60	53.90	74.00	-20.10 Peak
2	5465.494	7.79	34.64	35.15	46.71	53.99	68.20	-14.21 peak
3 p	5510.000	7.82	34.54	35.13	93.42	100.65	68.20	32.45 Peak

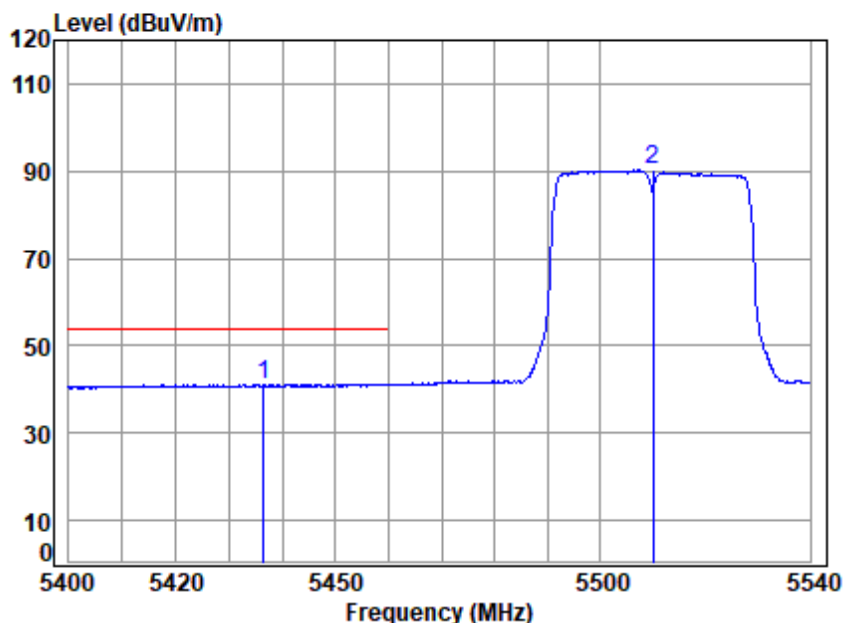
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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5510 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	5436.474	7.77	34.67	35.17	33.86	41.13	54.00	-12.87 Average
2	5510.000	7.82	34.54	35.13	82.95	90.18	-----	----- Average



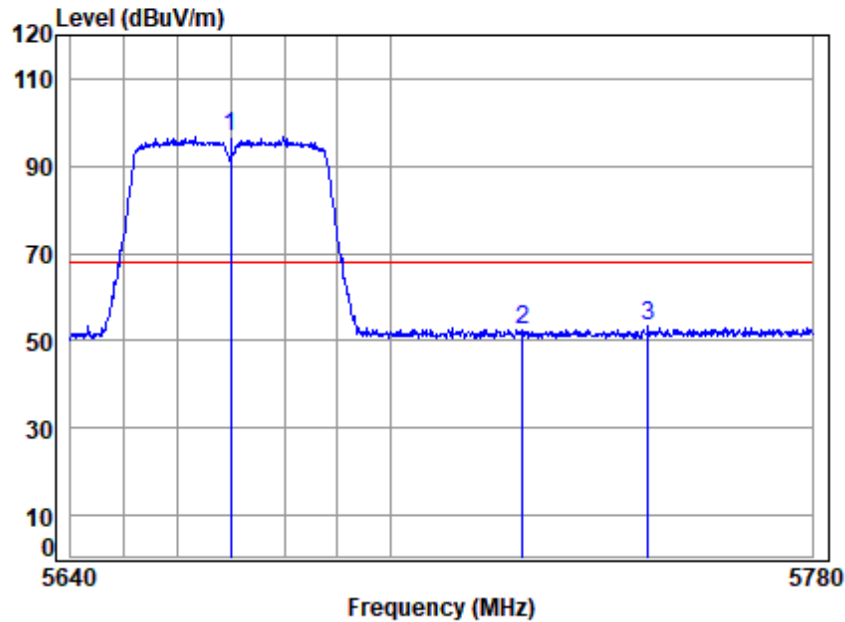
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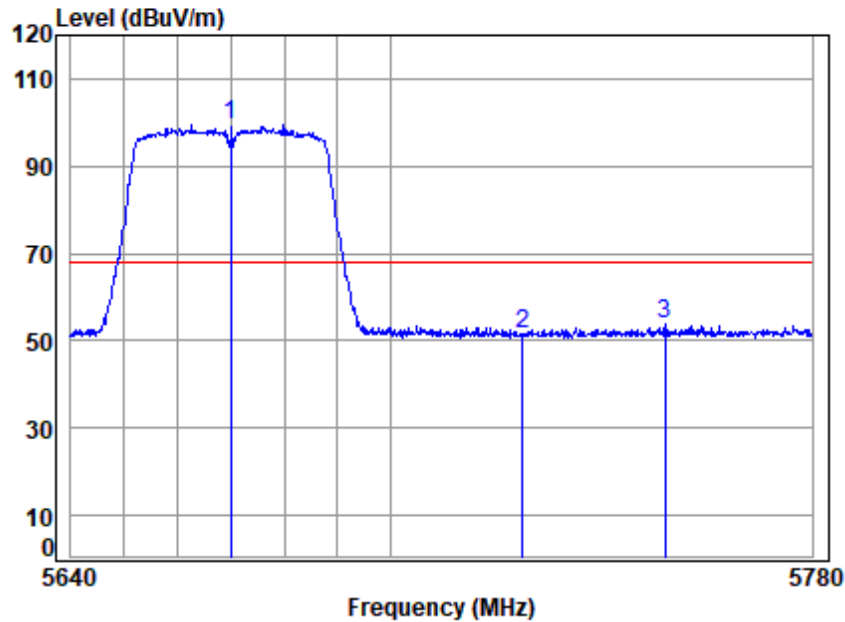
Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5670 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5670.000	7.94	34.36	35.05	89.59	96.84	68.20	28.64 peak
2	5725.000	7.98	34.25	35.03	45.36	52.56	68.20	-15.64 peak
3	5748.764	8.00	34.20	35.01	45.98	53.17	68.20	-15.03 peak

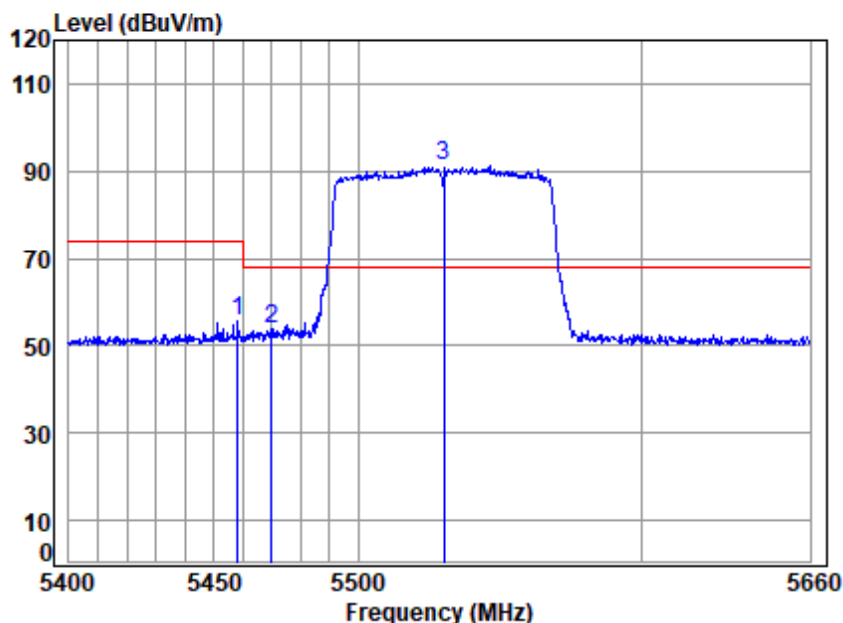
Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5670 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5670.000	7.94	34.36	35.05	92.19	99.44	68.20	31.24	Peak
2	5725.000	7.98	34.25	35.03	44.39	51.59	68.20	-16.61	Peak
3	5751.866	8.00	34.20	35.01	46.45	53.64	68.20	-14.56	Peak

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5530 Band edge
: 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5458.208	7.79	34.67	35.15	48.25	55.56	74.00	-18.44	peak
2	5470.028	7.79	34.62	35.15	46.52	53.78	68.20	-14.42	peak
3 p	5530.000	7.84	34.62	35.12	83.82	91.16	68.20	22.96	peak

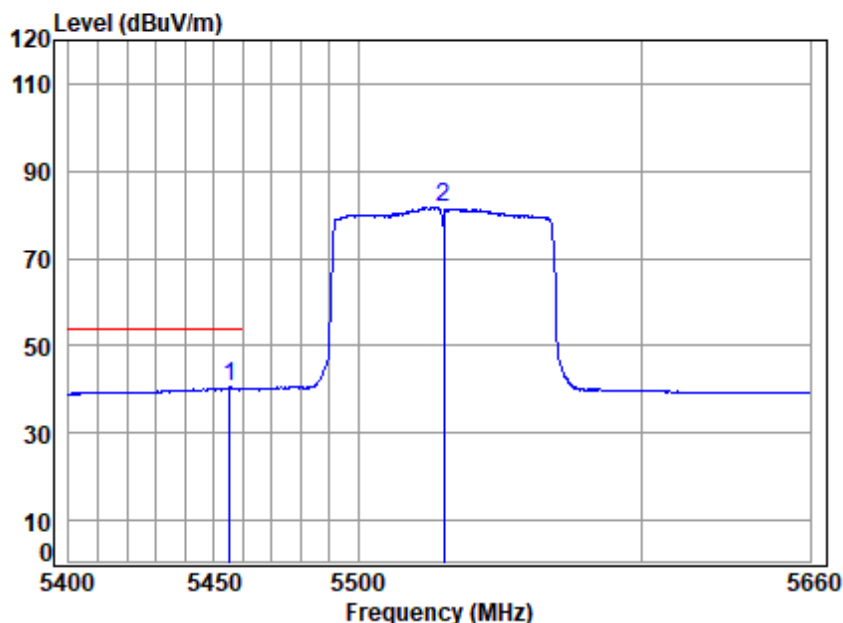
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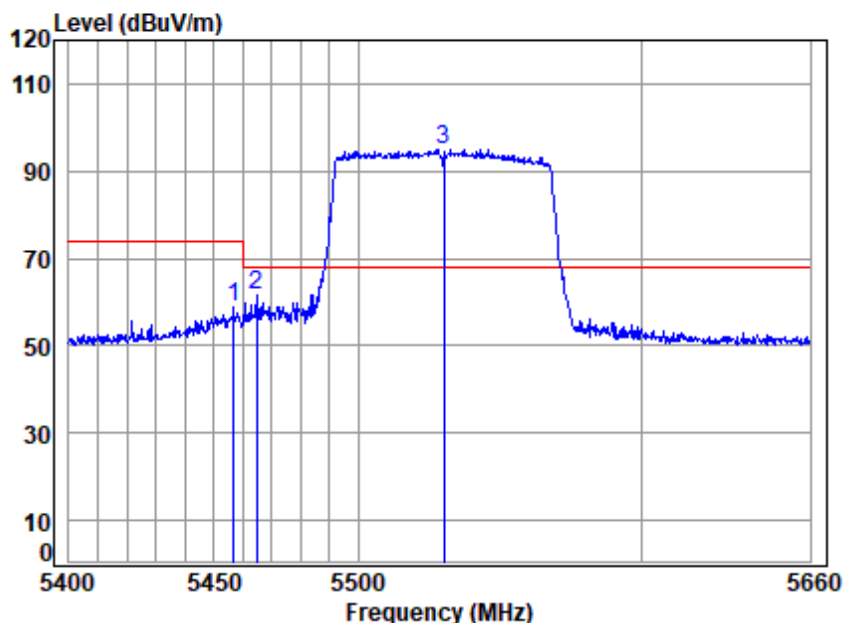
Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5530 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5455.386	7.78	34.68	35.16	33.16	40.46	54.00	-13.54	Average
2 5530.000	7.84	34.62	35.12	74.26	81.60	-----	-----	Average

Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low

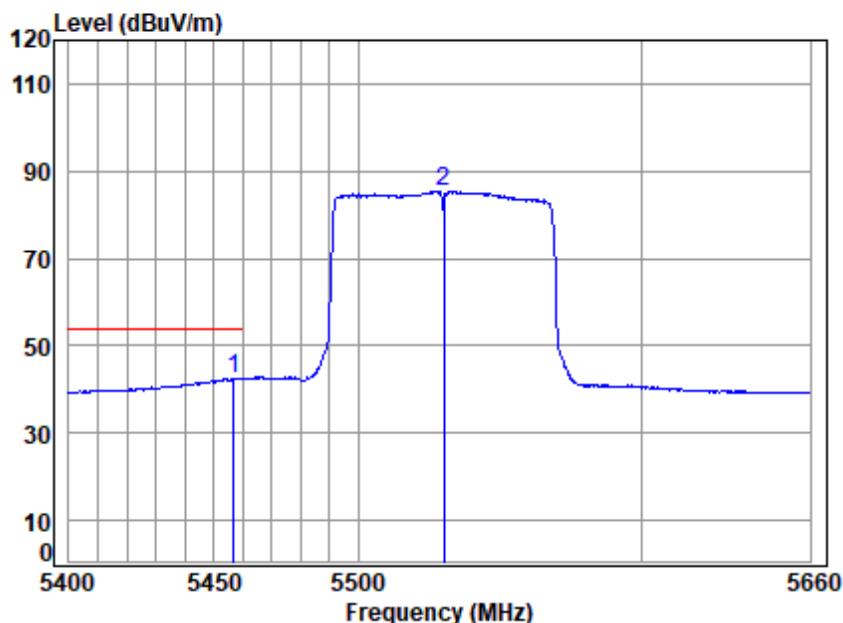


Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5530 Band edge
: 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5456.669	7.78	34.67	35.16	51.63	58.92	74.00	-15.08	Peak
2	5464.629	7.79	34.64	35.15	54.23	61.51	68.20	-6.69	peak
3 p	5530.000	7.84	34.62	35.12	87.67	95.01	68.20	26.81	Peak



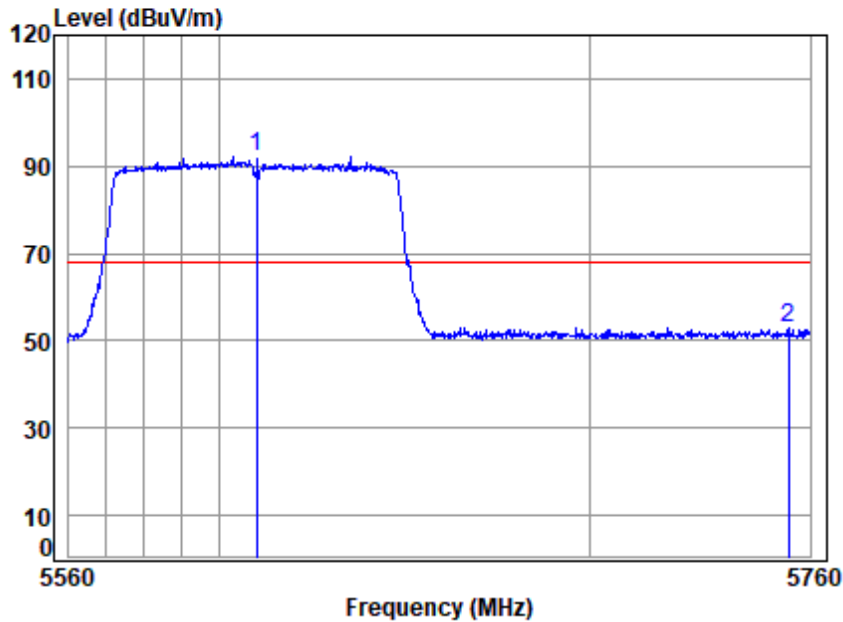
Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5530 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5456.925	7.78	34.67	35.15	35.24	42.54	54.00	-11.46	Average
2 5530.000	7.84	34.62	35.12	78.10	85.44	-----	-----	Average

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5610 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5610.000	7.90	34.64	35.08	84.72	92.18	68.20	23.98	peak
2 5754.100	8.00	34.21	35.01	45.60	52.80	68.20	-15.40	peak

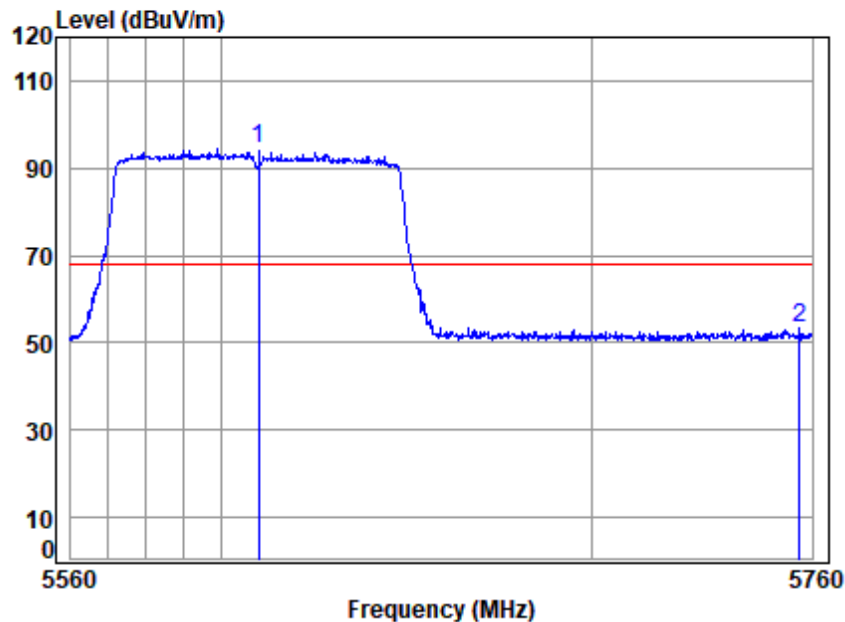
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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5610 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5610.000	7.90	34.64	35.08	86.89	94.35	68.20	26.15	Peak
2 5756.541	8.00	34.21	35.01	46.11	53.31	68.20	-14.89	Peak



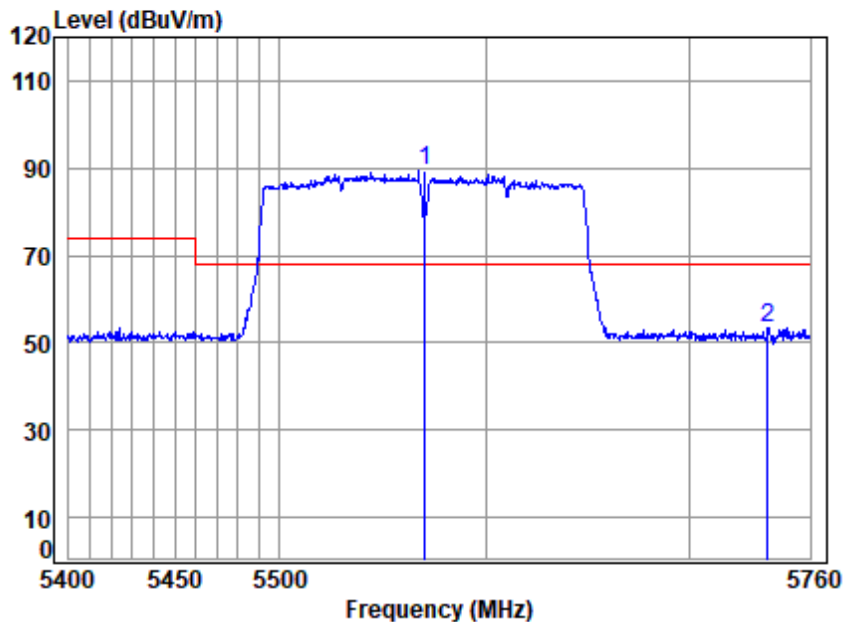
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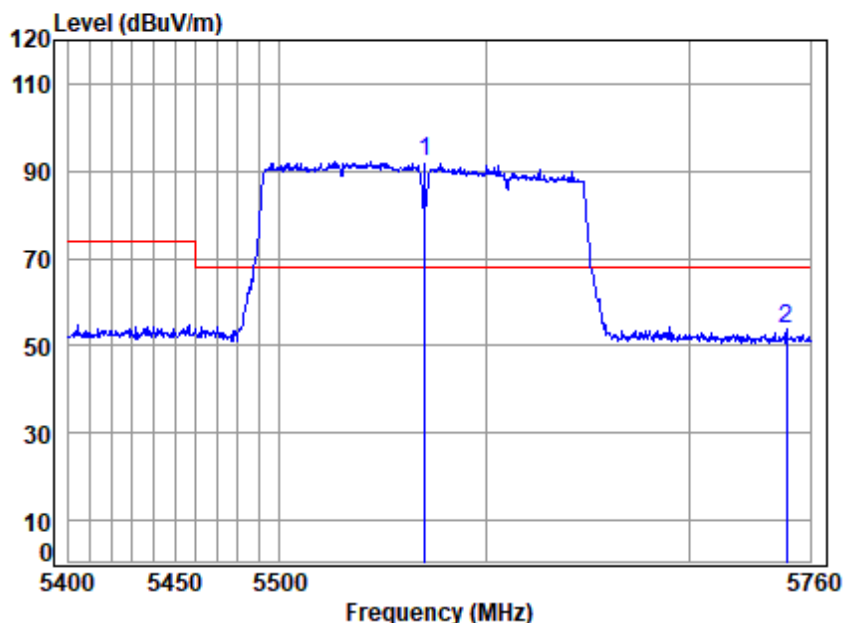
Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5570 Band edge
: 5G WIFI 11AC160

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 p 5570.000	7.87	34.70	35.10	81.79	89.26	68.20	21.06	peak	
2 5738.850	7.99	34.22	35.02	46.39	53.58	68.20	-14.62	peak	

Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5570 Band edge
: 5G WIFI 11AC160

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5570.000		7.87	34.70	35.10	84.75	92.22	68.20	24.02 Peak
2 5748.117		8.00	34.20	35.02	46.73	53.91	68.20	-14.29 Peak

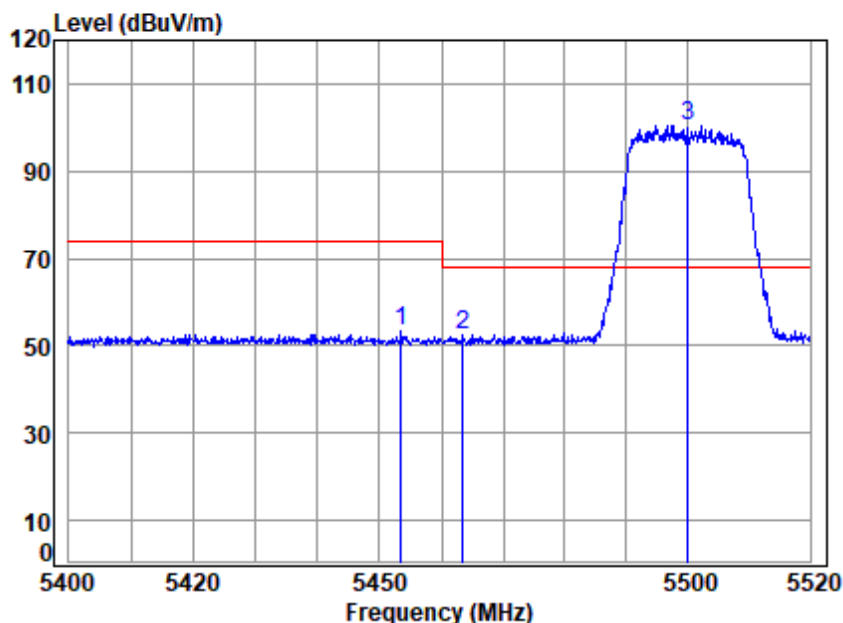
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Test Mode: 07; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5500 Band edge
: 5G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5453.434	7.78	34.69	35.16	45.88	53.19	74.00	-20.81 peak
2	5463.392	7.79	34.65	35.15	45.14	52.43	68.20	-15.77 peak
3 p	5500.000	7.82	34.50	35.13	93.19	100.38	68.20	32.18 peak



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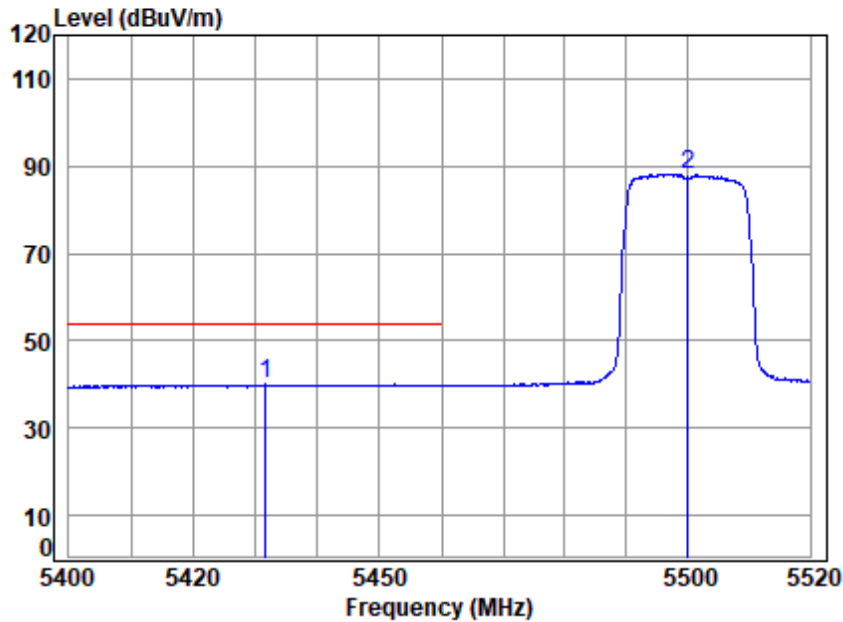
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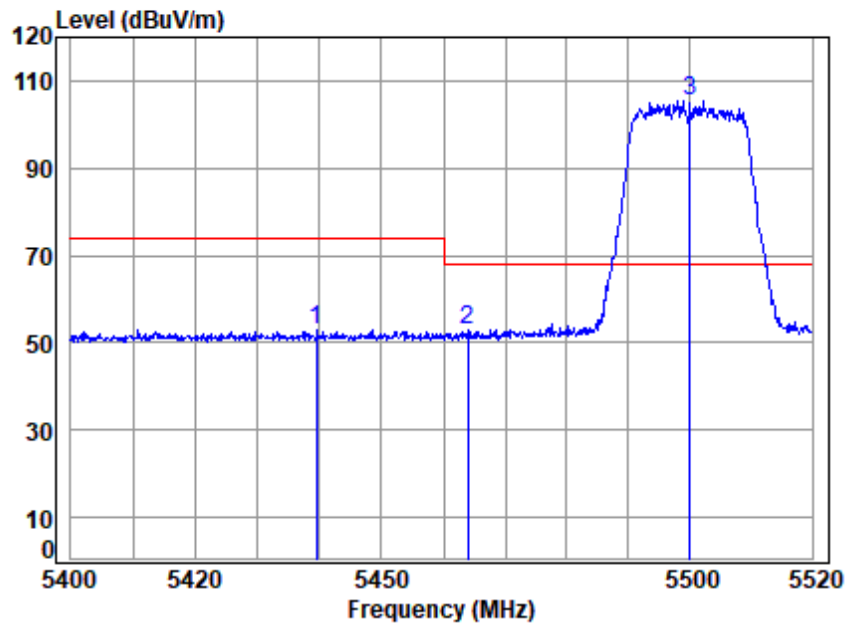
Test Mode: 07; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5500 Band edge
: 5G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	5431.543	7.77	34.66	35.17	32.73	39.99	54.00	-14.01 Average
2	5500.000	7.82	34.50	35.13	80.97	88.16	-----	----- Average

Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5500 Band edge
: 5G WIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5439.548	7.77	34.68	35.16	45.63	52.92	74.00	-21.08	Peak
2	5463.872	7.79	34.64	35.15	45.73	53.01	68.20	-15.19	peak
3 p	5500.000	7.82	34.50	35.13	98.32	105.51	68.20	37.31	Peak



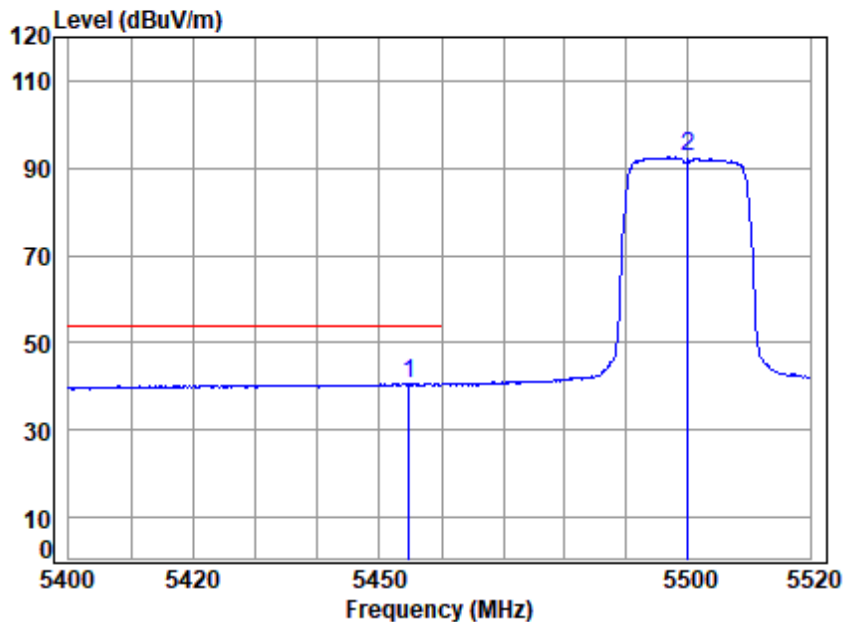
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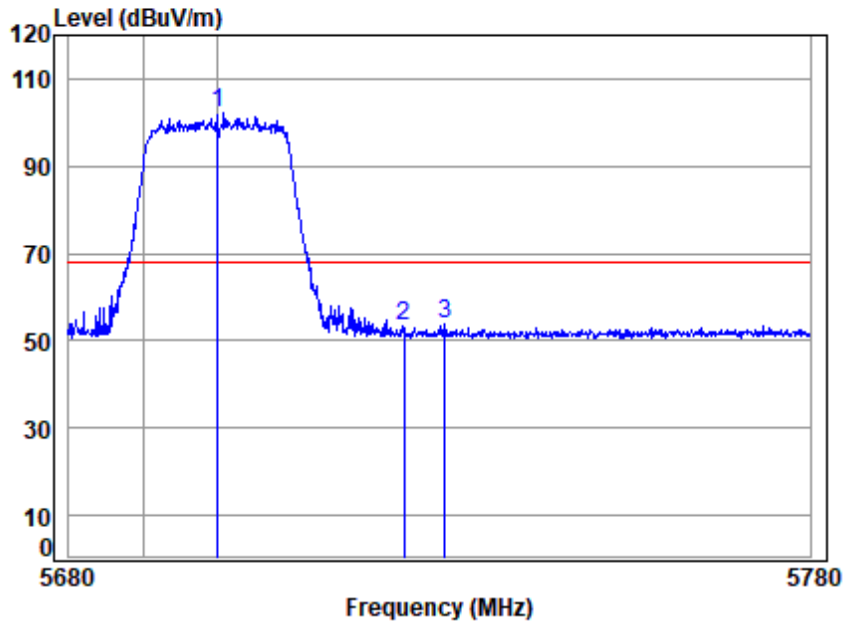
Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5500 Band edge
: 5G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5454.752	7.78	34.68	35.16	33.38	40.68	54.00	-13.32	Average
2 5500.000	7.82	34.50	35.13	85.24	92.43	-----	-----	Average

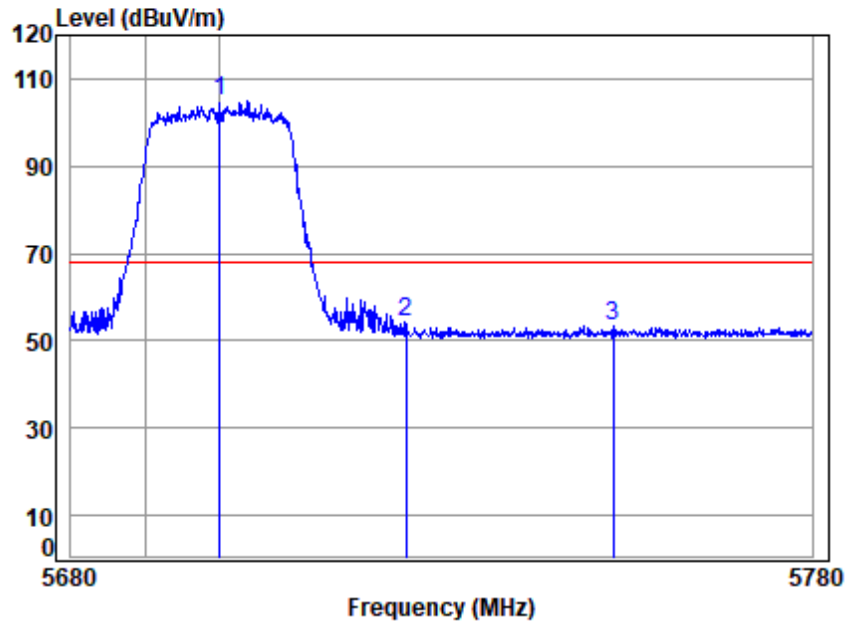
Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5700 Band edge
: 5G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5700.000	7.96	34.30	35.04	94.82	102.04	68.20	33.84 peak
2	5725.000	7.98	34.25	35.03	46.04	53.24	68.20	-14.96 peak
3	5730.582	7.98	34.24	35.02	46.53	53.73	68.20	-14.47 peak

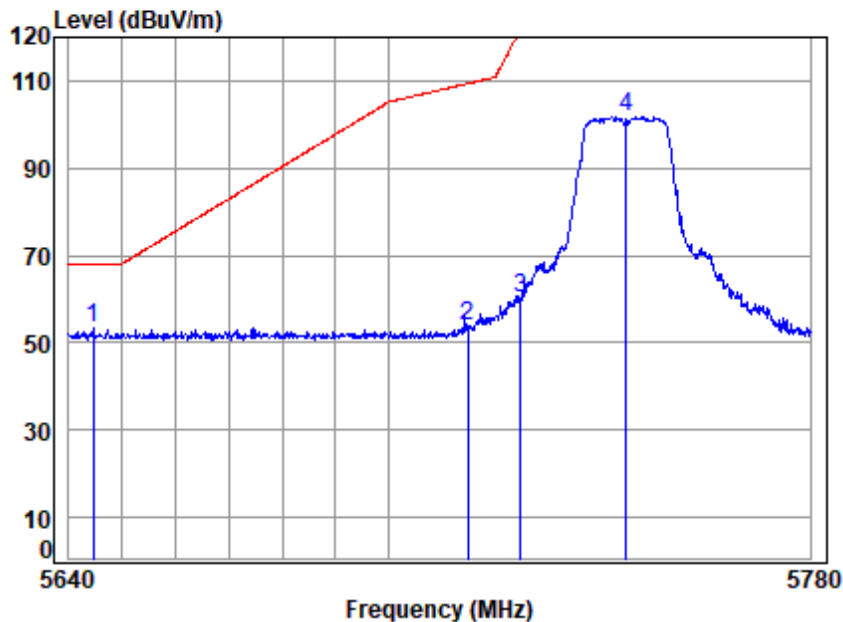
Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5700 Band edge
: 5G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5700.000	7.96	34.30	35.04	97.57	104.79	68.20	36.59 Peak
2	5725.000	7.98	34.25	35.03	47.24	54.44	68.20	-13.76 Peak
3	5753.029	8.00	34.21	35.01	46.11	53.31	68.20	-14.89 Peak

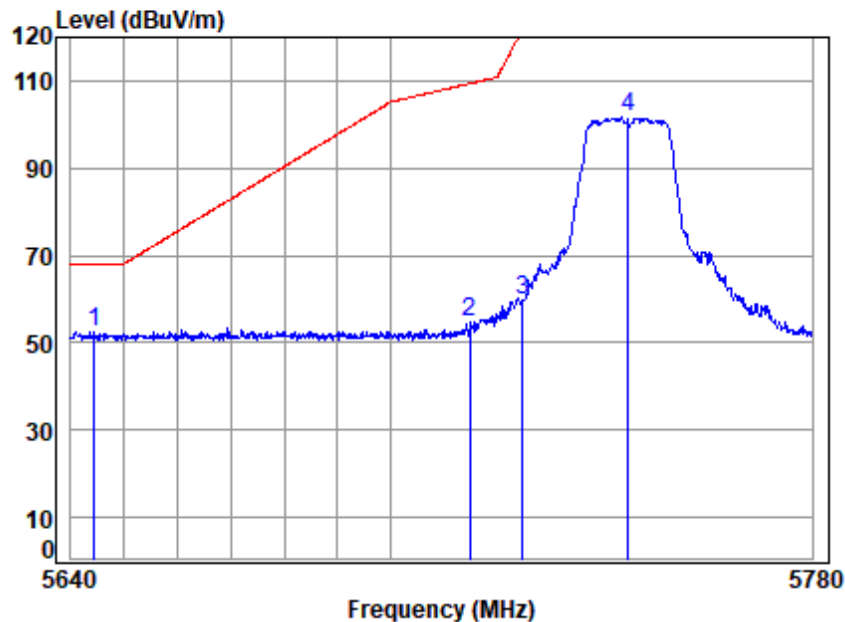
Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5745 Band edge
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5644.565	7.92	34.43	35.06	46.03	53.32	68.20	-14.88	peak
2	5715.000	7.97	34.27	35.03	46.53	53.74	109.40	-55.66	peak
3	5725.000	7.98	34.25	35.03	53.16	60.36	122.20	-61.84	peak
4	5745.000	7.99	34.21	35.02	94.48	101.66	-----	-----	peak

Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5745 Band edge
: 5G WIFI 11A

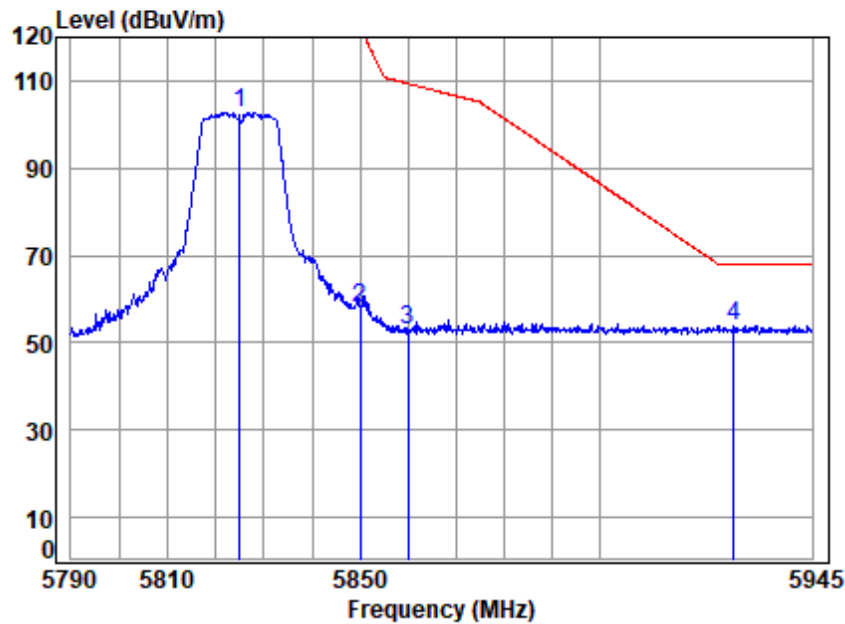
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5644.427	7.92	34.43	35.06	45.41	52.70	68.20	-15.50 peak
2	5715.000	7.97	34.27	35.03	47.70	54.91	109.40	-54.49 peak
3	5725.000	7.98	34.25	35.03	52.77	59.97	122.20	-62.23 peak
4	5745.000	7.99	34.21	35.02	94.51	101.69	-----	----- peak



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Test Mode: 08; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High

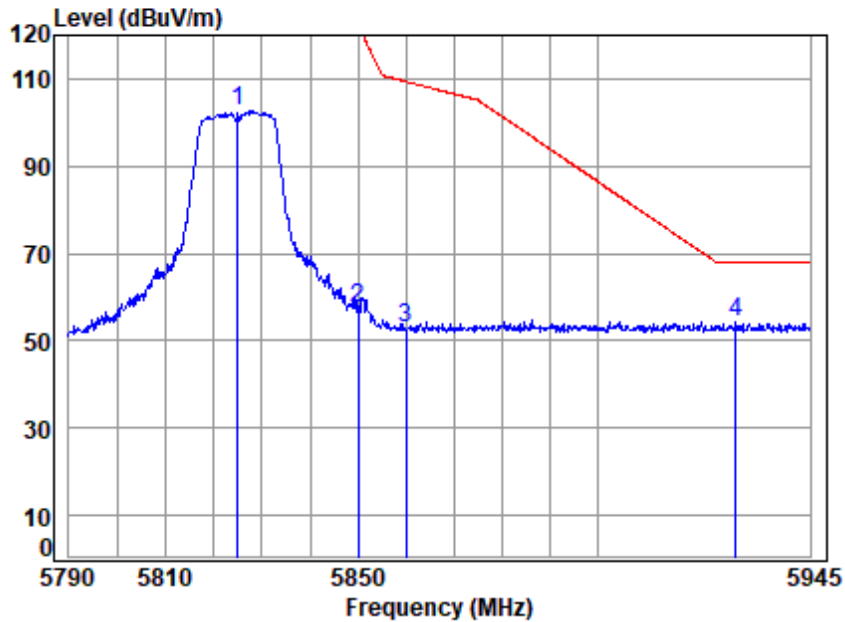


Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5825 Band edge
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.05	34.35	34.98	95.27	102.69	-----	-----	peak
2	5850.000	8.07	34.40	34.97	50.27	57.77	122.20	-64.43	peak
3	5860.000	8.07	34.44	34.96	45.50	53.05	109.40	-56.35	peak
4 p	5928.375	8.12	34.66	34.93	46.05	53.90	68.20	-14.30	peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5825 Band edge
: 5G WIFI 11A

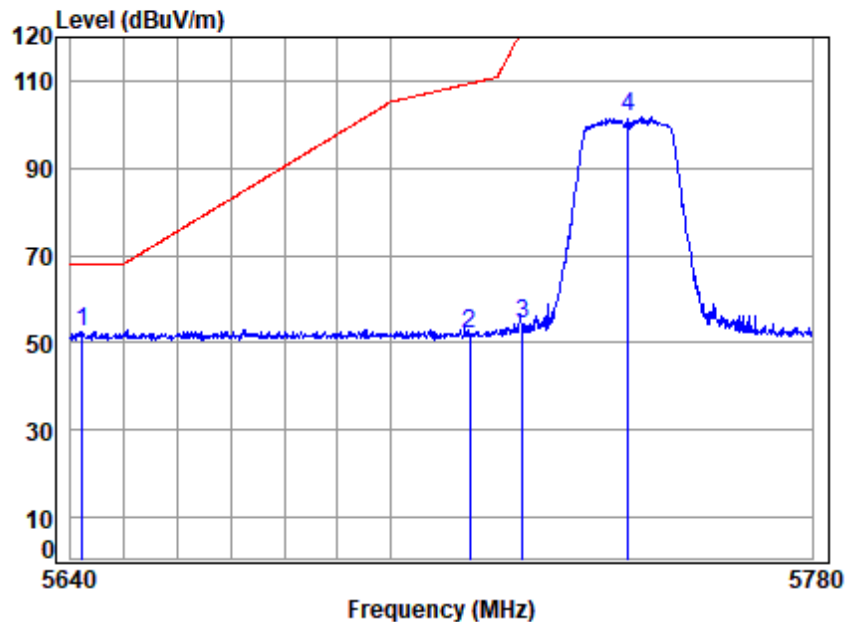
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.05	34.35	34.98	95.08	102.50	-----	-----	peak
2	5850.000	8.07	34.40	34.97	49.97	57.47	122.20	-64.73	peak
3	5860.000	8.07	34.44	34.96	45.22	52.77	109.40	-56.63	peak
4 p	5929.315	8.12	34.66	34.93	46.22	54.07	68.20	-14.13	peak



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

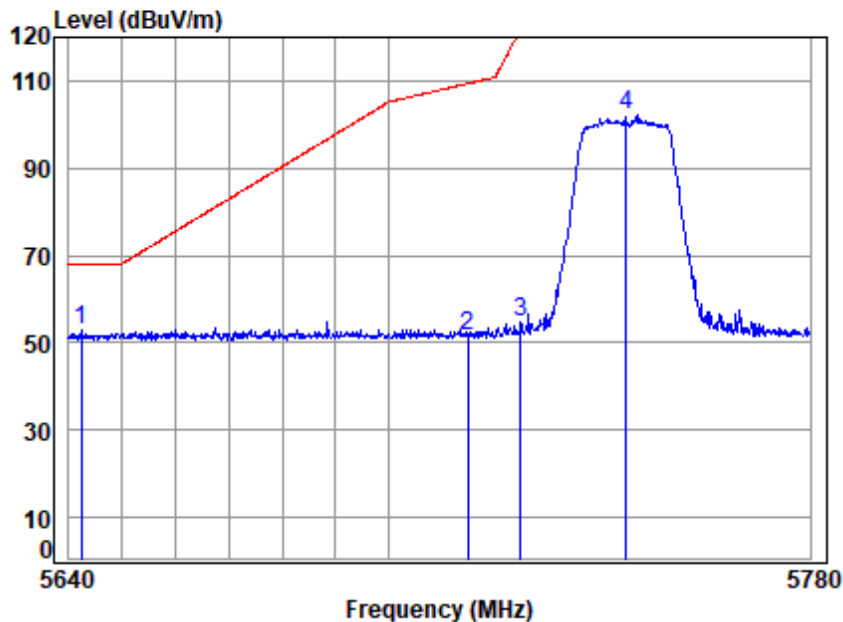


Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5745 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5642.075	7.92	34.45	35.07	45.32	52.62	68.20	-15.58 peak
2	5715.000	7.97	34.27	35.03	44.68	51.89	109.40	-57.51 peak
3	5725.000	7.98	34.25	35.03	47.26	54.46	122.20	-67.74 peak
4	5745.000	7.99	34.21	35.02	94.37	101.55	-----	----- peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

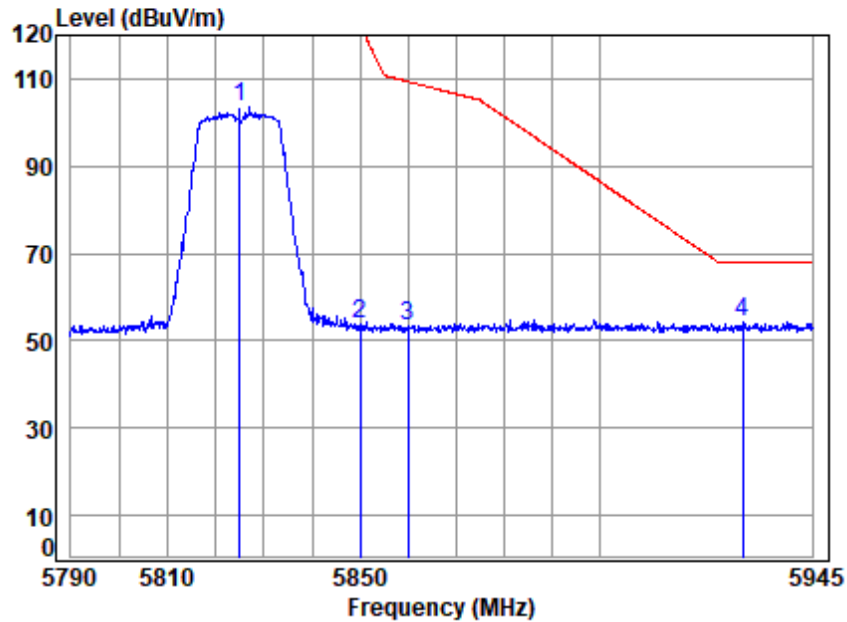


Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5745 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5642.352	7.92	34.45	35.07	45.55	52.85	68.20	-15.35	peak
2 5715.000	7.97	34.27	35.03	44.38	51.59	109.40	-57.81	peak
3 5725.000	7.98	34.25	35.03	47.36	54.56	122.20	-67.64	peak
4 5745.000	7.99	34.21	35.02	95.12	102.30	-----	-----	peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5825 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.05	34.35	34.98	95.94	103.36	-----	-----	peak
2	5850.000	8.07	34.40	34.97	46.26	53.76	122.20	-68.44	peak
3	5860.000	8.07	34.44	34.96	45.72	53.27	109.40	-56.13	peak
4 p	5930.255	8.12	34.66	34.93	46.31	54.16	68.20	-14.04	peak



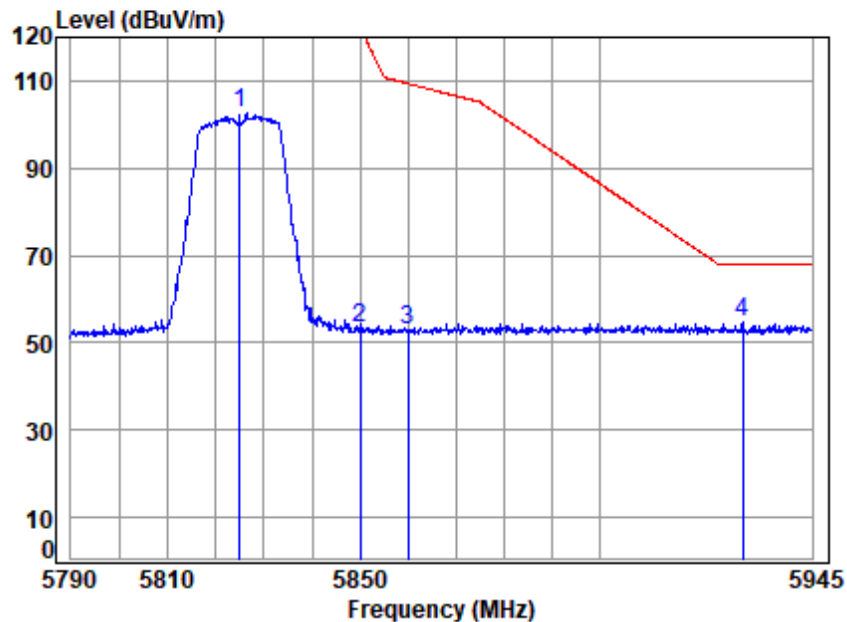
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

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Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5825 Band edge
: 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.05	34.35	34.98	95.44	102.86	-----	-----	peak
2	5850.000	8.07	34.40	34.97	46.11	53.61	122.20	-68.59	peak
3	5860.000	8.07	34.44	34.96	45.54	53.09	109.40	-56.31	peak
4 p	5930.255	8.12	34.66	34.93	47.01	54.86	68.20	-13.34	peak



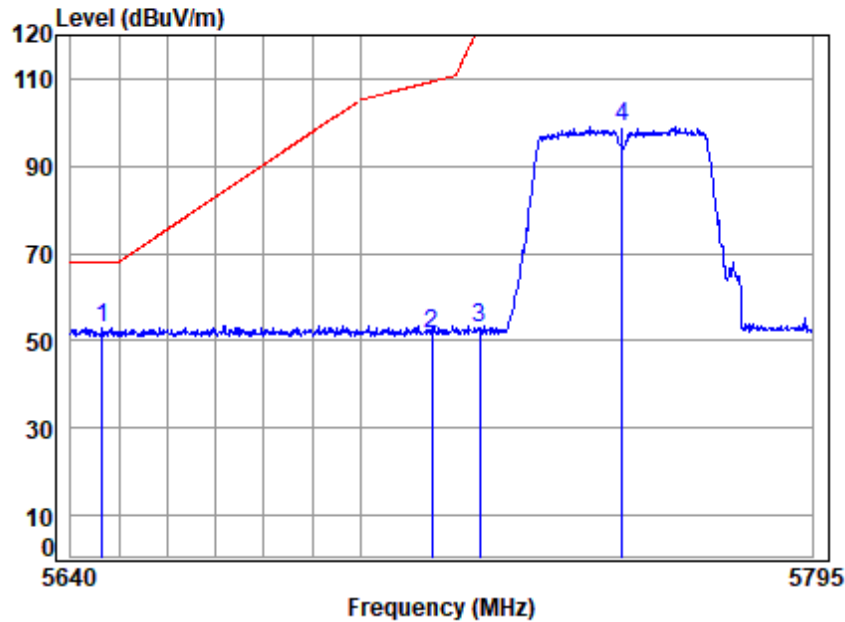
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Shenzhen Branch Testing Laboratory

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

Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5755 Band edge
: 5G WIFI 11AC40

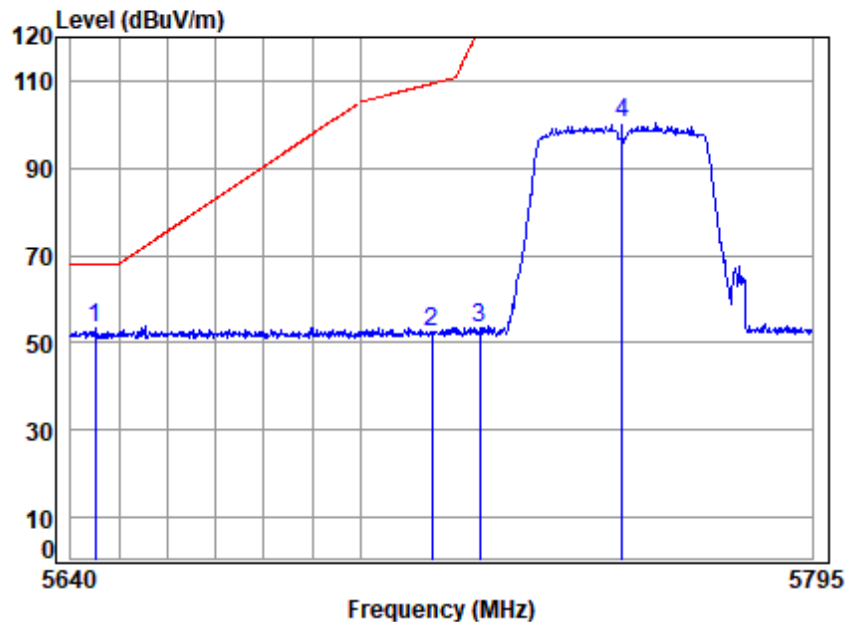
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5646.426	7.92	34.42	35.06	45.61	52.89	68.20	-15.31	peak
2	5715.000	7.97	34.27	35.03	44.47	51.68	109.40	-57.72	peak
3	5725.000	7.98	34.25	35.03	45.82	53.02	122.20	-69.18	peak
4	5755.000	8.00	34.21	35.01	92.00	99.20	-----	-----	peak



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Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

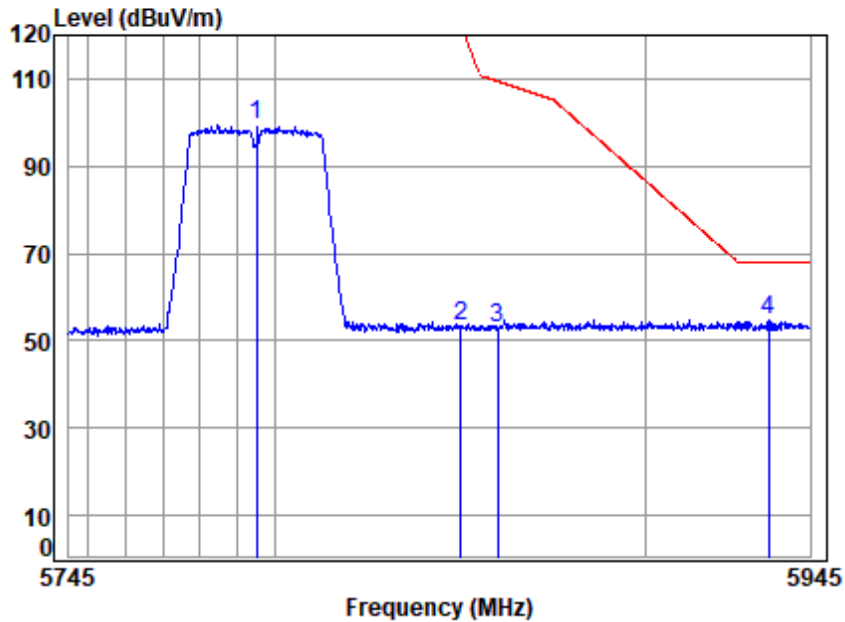


Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5755 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5645.048	7.92	34.43	35.06	46.03	53.32	68.20	-14.88	peak
2	5715.000	7.97	34.27	35.03	45.25	52.46	109.40	-56.94	peak
3	5725.000	7.98	34.25	35.03	45.99	53.19	122.20	-69.01	peak
4	5755.000	8.00	34.21	35.01	93.12	100.32	-----	-----	peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

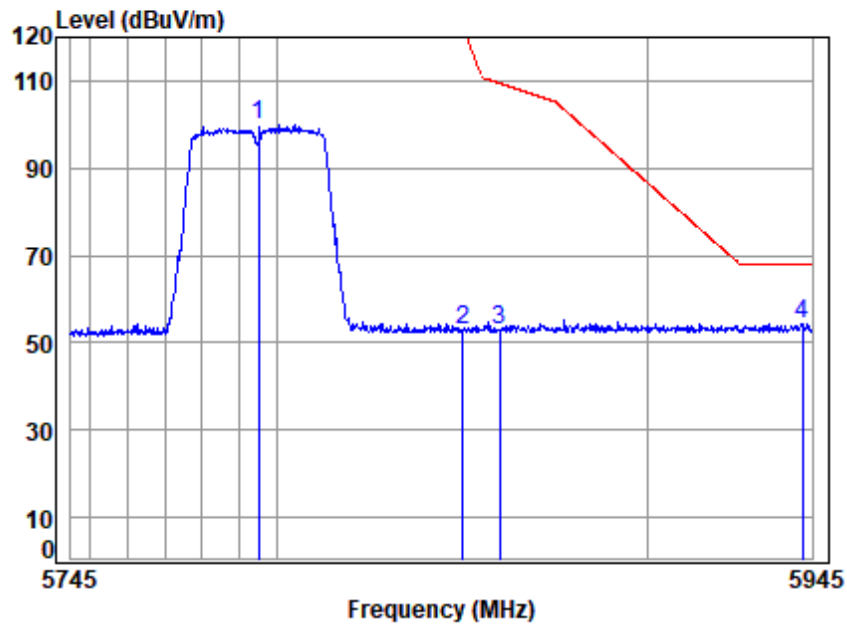


Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5795 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	8.03	34.29	34.99	92.29	99.62	-----	-----	peak
2	5850.000	8.07	34.40	34.97	46.10	53.60	122.20	-68.60	peak
3	5860.000	8.07	34.44	34.96	45.22	52.77	109.40	-56.63	peak
4 p	5933.618	8.12	34.67	34.93	46.68	54.54	68.20	-13.66	peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

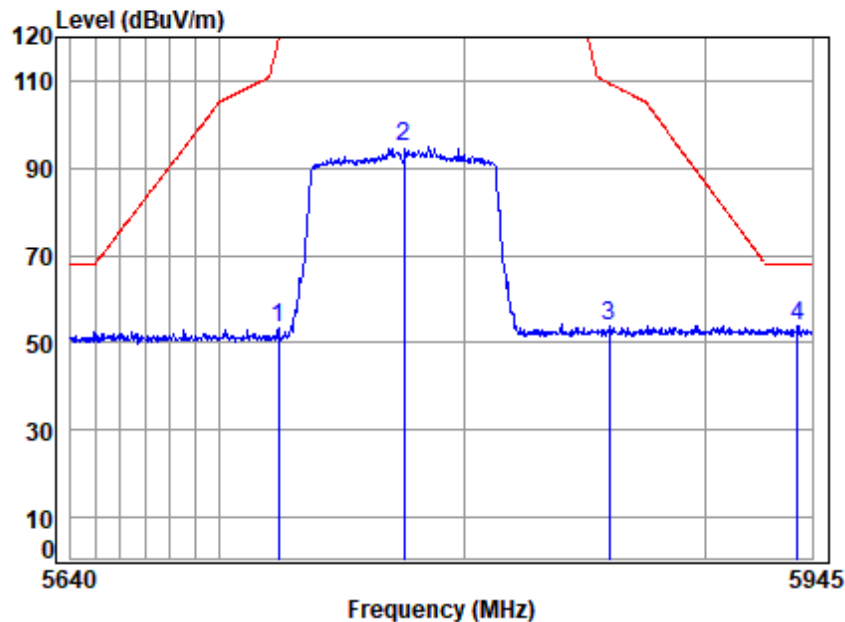


Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5795 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	8.03	34.29	34.99	92.73	100.06	-----	-----	peak
2	5850.000	8.07	34.40	34.97	45.26	52.76	122.20	-69.44	peak
3	5860.000	8.07	34.44	34.96	45.50	53.05	109.40	-56.35	peak
4 p	5942.356	8.13	34.68	34.93	46.64	54.52	68.20	-13.68	peak



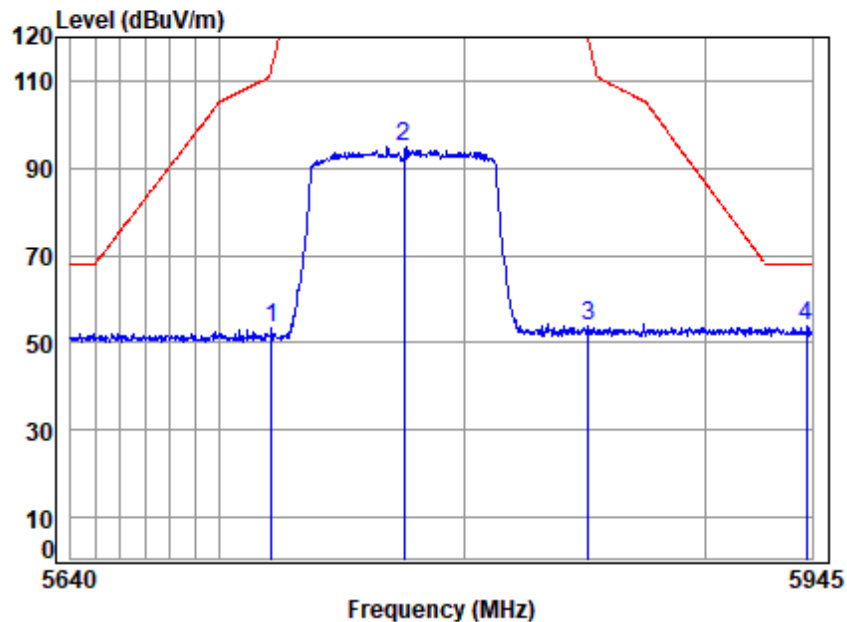
Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5775 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5723.787	7.98	34.25	35.03	46.15	53.35	119.44	-66.09 peak
2	5775.000	8.01	34.25	35.00	87.61	94.87	-----	----- peak
3	5860.135	8.07	34.44	34.96	46.38	53.93	109.36	-55.43 peak
4 p	5939.054	8.13	34.68	34.93	46.04	53.92	68.20	-14.28 peak

Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5775 Band edge
: 5G WIFI 11AC80

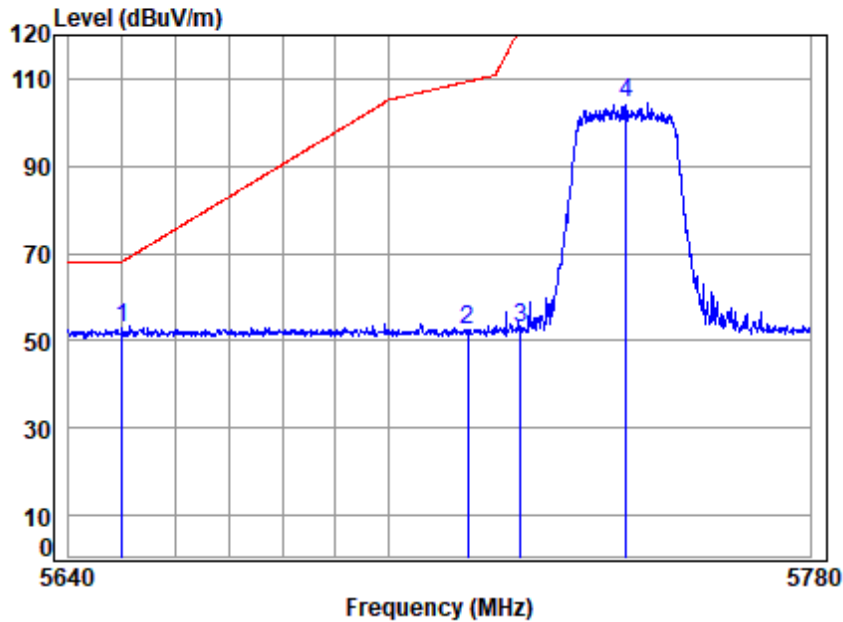
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5721.075	7.98	34.26	35.03	46.03	53.24	113.25	-60.01 peak
2	5775.000	8.01	34.25	35.00	87.69	94.95	-----	----- peak
3	5851.191	8.07	34.40	34.97	46.37	53.87	119.48	-65.61 peak
4 p	5942.809	8.13	34.69	34.93	45.94	53.83	68.20	-14.37 peak



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Test Mode: 08; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low

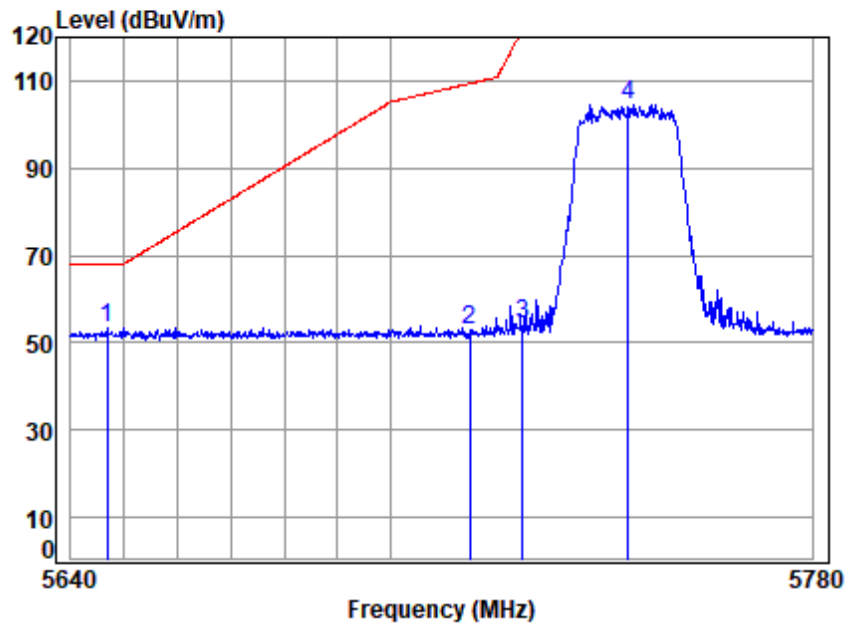


Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5745 Band edge
: 5G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5649.966		7.93	34.40	35.06	45.78	53.05	68.20	-15.15 peak
2 5715.000		7.97	34.27	35.03	45.46	52.67	109.40	-56.73 peak
3 5725.000		7.98	34.25	35.03	45.83	53.03	122.20	-69.17 peak
4 5745.000		7.99	34.21	35.02	97.11	104.29	-----	----- peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01176AT
Mode : 5745 Band edge
: 5G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5646.780	7.92	34.42	35.06	46.09	53.37	68.20	-14.83 peak
2	5715.000	7.97	34.27	35.03	45.92	53.13	109.40	-56.27 peak
3	5725.000	7.98	34.25	35.03	47.06	54.26	122.20	-67.94 peak
4	5745.000	7.99	34.21	35.02	97.33	104.51	-----	----- peak



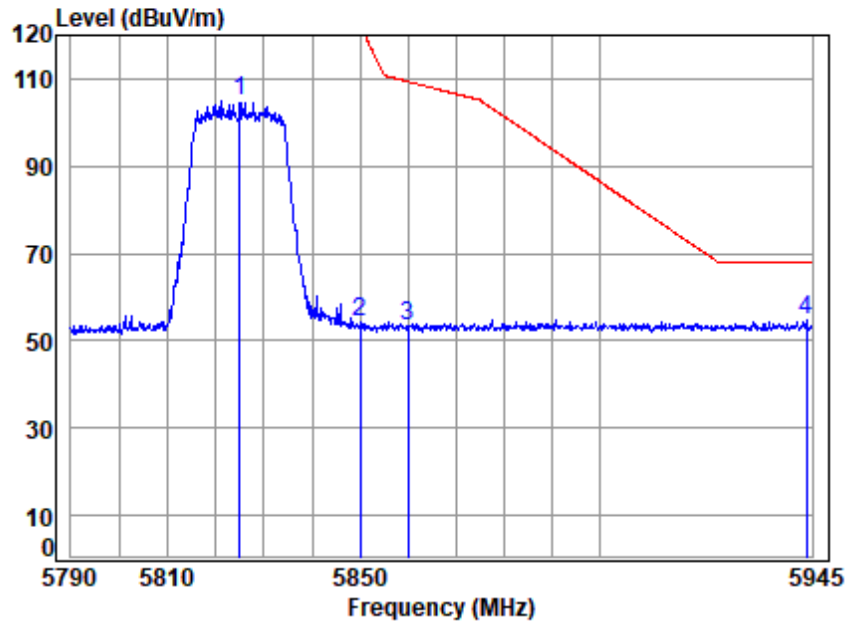
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01176AT
Mode : 5825 Band edge
: 5G WIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.05	34.35	34.98	97.46	104.88	-----	-----	peak
2	5850.000	8.07	34.40	34.97	46.71	54.21	122.20	-67.99	peak
3	5860.000	8.07	34.44	34.96	46.00	53.55	109.40	-55.85	peak
4 p	5943.744	8.13	34.69	34.93	47.02	54.91	68.20	-13.29	peak



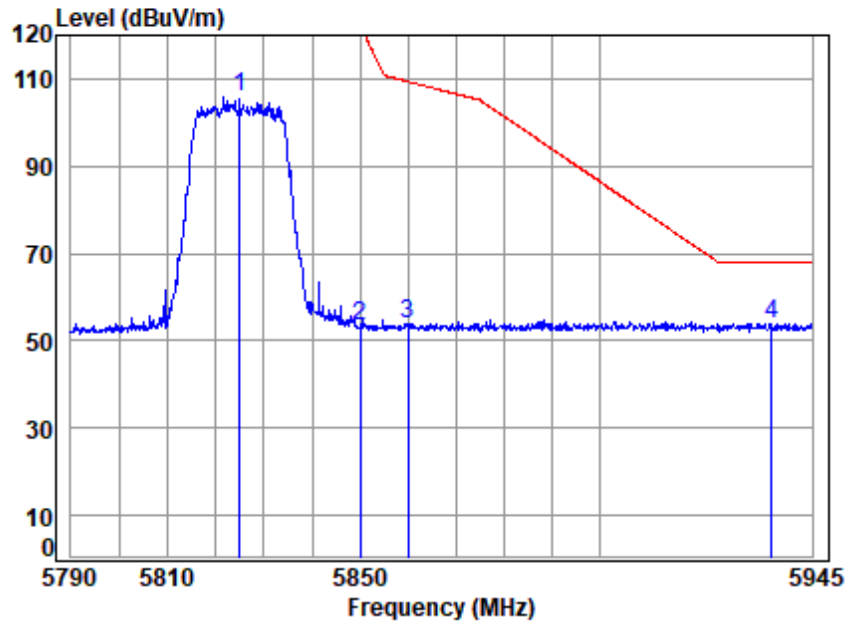
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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01176AT
 Mode : 5825 Band edge
 : 5G WIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.05	34.35	34.98	98.34	105.76	-----	-----	peak
2	5850.000	8.07	34.40	34.97	46.01	53.51	122.20	-68.69	peak
3	5860.000	8.07	34.44	34.96	46.41	53.96	109.40	-55.44	peak
4 p	5936.368	8.13	34.67	34.93	46.19	54.06	68.20	-14.14	peak



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7.10 Frequency Stability

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

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

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 41.4 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	08	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.



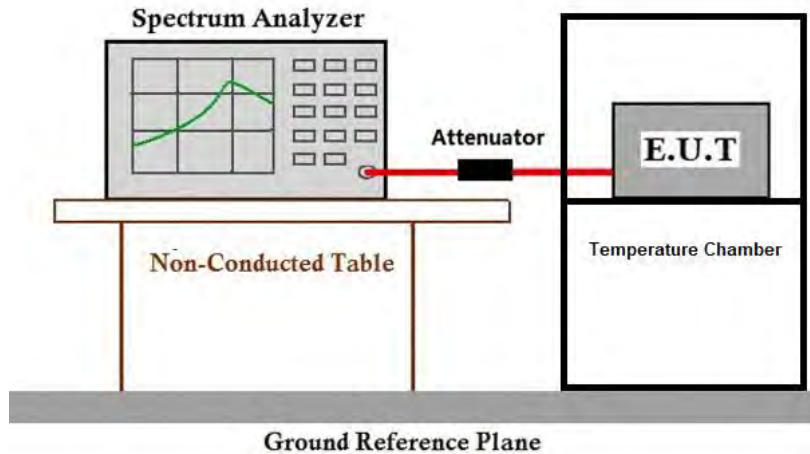
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7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.11 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.

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 41.4 % RH Atmospheric Pressure: 1020 mbar



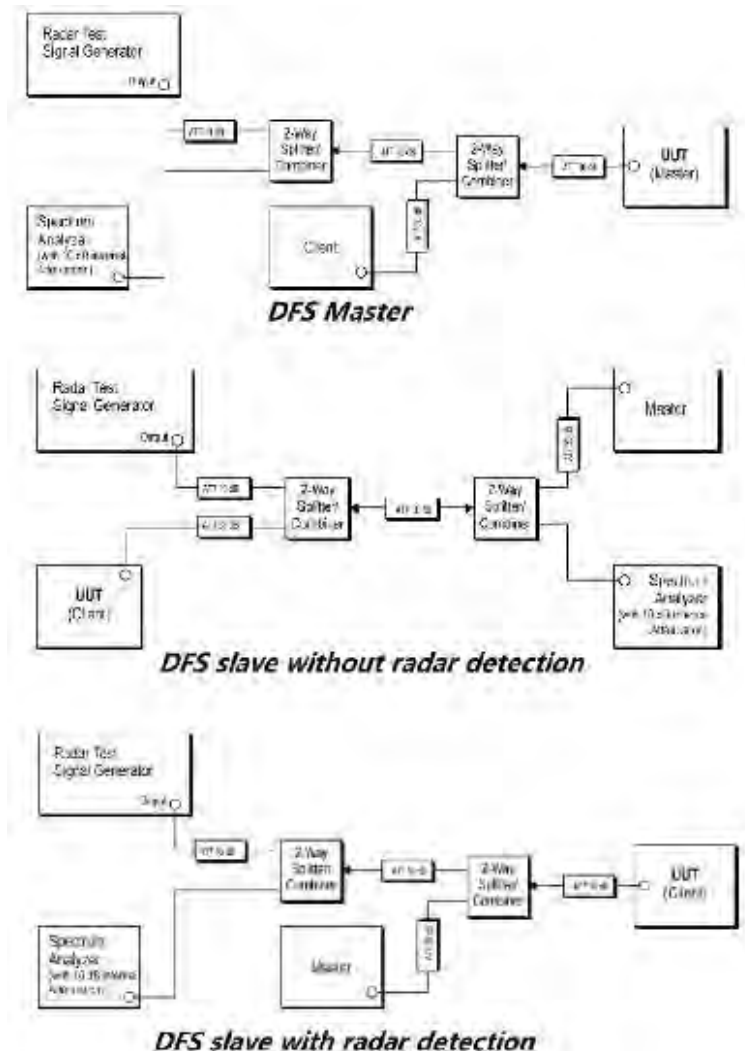
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7.11.2 Test Mode Description

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

7.11.3 Test Setup Diagram



7.11.4 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: $C (ms) = N \times Dwell (0.3ms)$; 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

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: 23.5 °C Humidity: 41.4 % RH Atmospheric Pressure: 1020 mbar



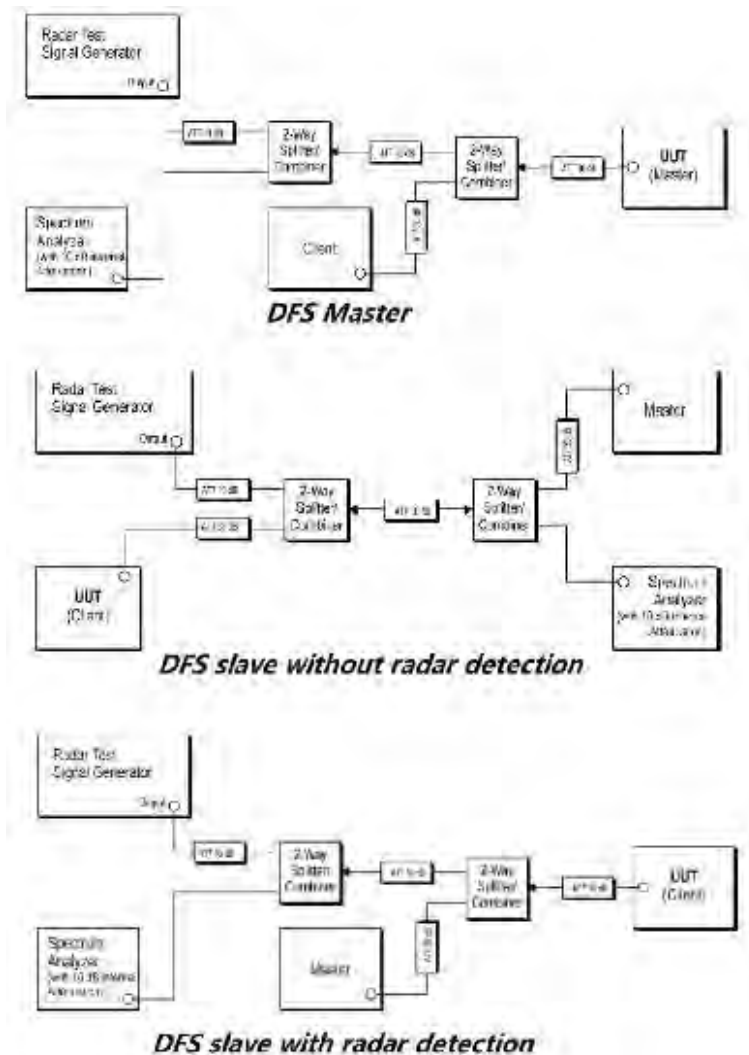
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7.12.1 Test Mode Description

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

7.12.2 Test Setup Diagram



7.12.3 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; 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

7.13 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.

7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 41.4 % RH Atmospheric Pressure: 1020 mbar



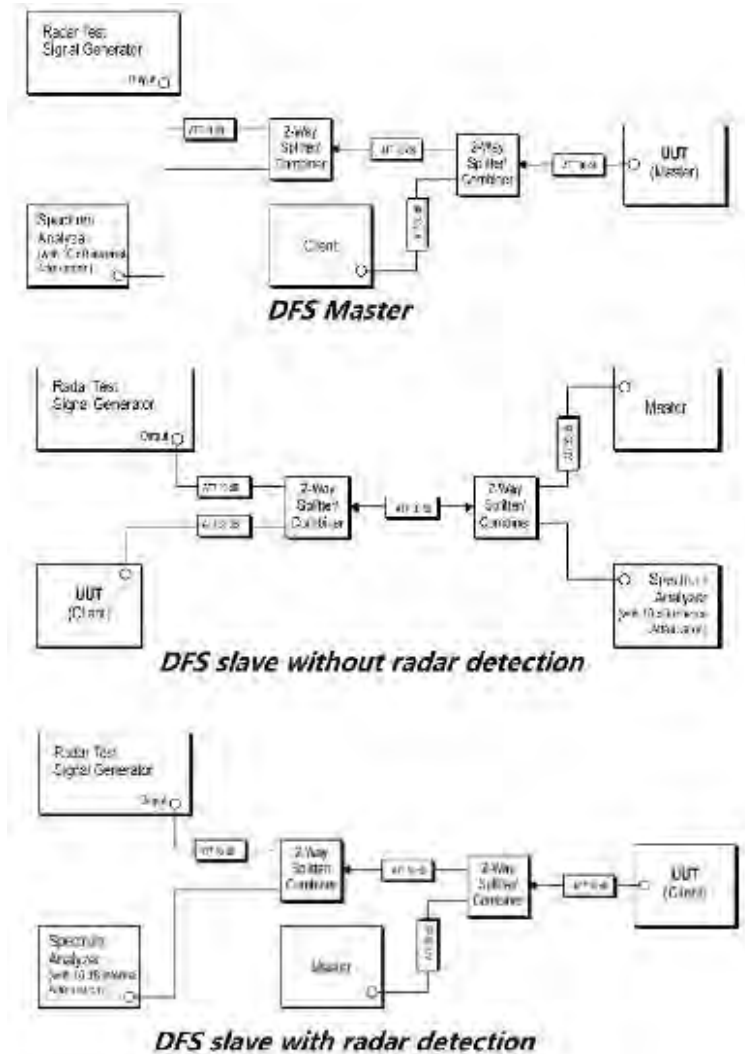
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7.13.2 Test Mode Description

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

7.13.3 Test Setup Diagram



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: $C (ms) = N \times Dwell (0.3ms)$; 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

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2404001176AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2404001176AT

10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	/	/	2.096	2.113	99.20	0.04	0.03
		5200	/	/	2.097	2.114	99.20	0.04	0.03
		5240	/	/	2.097	2.114	99.20	0.04	0.03
		5260	/	/	2.097	2.114	99.20	0.04	0.03
		5300	/	/	2.096	2.113	99.20	0.04	0.03
		5320	/	/	2.097	2.113	99.24	0.03	0.03
		5500	/	/	2.096	2.113	99.20	0.04	0.03
		5580	/	/	2.096	2.113	99.20	0.04	0.03
		5700	/	/	2.097	2.114	99.20	0.04	0.03
		5745	/	/	2.096	2.113	99.20	0.04	0.03
		5785	/	/	2.096	2.113	99.20	0.04	0.03
		5825	/	/	2.096	2.113	99.20	0.04	0.03
802.11n (HT20)	MIMO	5180	/	/	5.369	5.385	99.70	0.01	0.03
		5200	/	/	5.368	5.386	99.67	0.01	0.04
		5240	/	/	5.368	5.386	99.67	0.01	0.04
		5260	/	/	5.369	5.385	99.70	0.01	0.03
		5300	/	/	5.368	5.385	99.68	0.01	0.03
		5320	/	/	5.368	5.385	99.68	0.01	0.03
		5500	/	/	5.368	5.386	99.67	0.01	0.04
		5580	/	/	5.368	5.385	99.68	0.01	0.03
		5700	/	/	5.368	5.386	99.67	0.01	0.04
		5745	/	/	5.368	5.385	99.68	0.01	0.03
		5785	/	/	5.368	5.385	99.68	0.01	0.03
		5825	/	/	5.368	5.385	99.68	0.01	0.03
802.11n (HT40)	MIMO	5190	/	/	5.392	5.408	99.70	0.01	0.04
		5230	/	/	5.393	5.410	99.69	0.01	0.03
		5270	/	/	5.393	5.409	99.70	0.01	0.03
		5310	/	/	5.392	5.408	99.70	0.01	0.04

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		5510	/	/	5.393	5.409	99.70	0.01	0.03
		5550	/	/	5.392	5.408	99.70	0.01	0.04
		5670	/	/	5.392	5.408	99.70	0.01	0.00
		5755	/	/	5.392	5.408	99.70	0.01	0.04
		5795	/	/	5.392	5.408	99.70	0.01	0.04
802.11ac (VHT20)	MIMO	5180	/	/	5.372	5.389	99.68	0.01	0.03
		5200	/	/	5.372	5.390	99.67	0.01	0.04
		5240	/	/	5.372	5.390	99.67	0.01	0.04
		5260	/	/	5.372	5.390	99.67	0.01	0.04
		5300	/	/	5.372	5.390	99.67	0.01	0.04
		5320	/	/	5.373	5.389	99.70	0.01	0.03
		5500	/	/	5.373	5.389	99.70	0.01	0.03
		5580	/	/	5.373	5.390	99.68	0.01	0.00
		5700	/	/	5.372	5.390	99.67	0.01	0.04
		5745	/	/	5.372	5.390	99.67	0.01	0.04
		5785	/	/	5.372	5.389	99.68	0.01	0.00
		5825	/	/	5.373	5.389	99.70	0.01	0.03
802.11ac (VHT40)	MIMO	5190	/	/	5.372	5.390	99.67	0.01	0.04
		5230	/	/	5.396	5.412	99.70	0.01	0.04
		5270	/	/	5.397	5.413	99.70	0.01	0.03
		5310	/	/	5.397	5.413	99.70	0.01	0.03
		5510	/	/	5.396	5.412	99.70	0.01	0.00
		5550	/	/	5.397	5.414	99.69	0.01	0.03
		5670	/	/	5.396	5.412	99.70	0.01	0.04
		5755	/	/	5.396	5.412	99.70	0.01	0.04
		5795	/	/	5.396	5.413	99.69	0.01	0.03
802.11ac (VHT80)	MIMO	5210	/	/	3.120	3.136	99.49	0.02	0.03
		5290	/	/	3.120	3.136	99.49	0.02	0.03
		5530	/	/	3.121	3.136	99.52	0.02	0.00
		5610	/	/	3.121	3.136	99.52	0.02	0.00
		5775	/	/	3.120	3.136	99.49	0.02	0.03
802.11ac (VHT160)	MIMO	5570	/	/	2.204	2.220	99.28	0.03	0.04
		5250	/	/	2.205	2.220	99.32	0.03	0.04
802.11ax (HEW20)	MIMO	5180	RU242	Left	5.428	5.446	99.67	0.01	0.04
		5200	RU242	Left	5.428	5.445	99.69	0.01	0.03
		5240	RU242	Left	5.428	5.446	99.67	0.01	0.04
		5260	RU242	Left	5.428	5.446	99.67	0.01	0.04
		5300	RU242	Left	5.428	5.445	99.69	0.01	0.00
		5320	RU242	Left	5.428	5.445	99.69	0.01	0.03
		5500	RU242	Left	5.428	5.445	99.69	0.01	0.03



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		5580	RU242	Left	5.428	5.446	99.67	0.01	0.04
		5700	RU242	Left	5.428	5.446	99.67	0.01	0.04
		5745	RU242	Left	5.428	5.446	99.67	0.01	0.04
		5785	RU242	Left	5.428	5.445	99.69	0.01	0.03
		5825	RU242	Left	5.428	5.446	99.67	0.01	0.04
802.11ax (HEW40)	MIMO	5190	RU484	Left	4.817	4.833	99.67	0.01	0.03
		5230	RU484	Left	4.817	4.834	99.65	0.02	0.03
		5270	RU484	Left	4.817	4.833	99.67	0.01	0.03
		5310	RU484	Left	4.817	4.834	99.65	0.02	0.03
		5510	RU484	Left	4.817	4.833	99.67	0.01	0.03
		5550	RU484	Left	4.817	4.834	99.65	0.02	0.03
		5670	RU484	Left	4.817	4.834	99.65	0.02	0.03
		5755	RU484	Left	4.816	4.833	99.65	0.02	0.03
		5795	RU484	Left	4.817	4.834	99.65	0.02	0.03
802.11ax (HEW80)	MIMO	5210	RU996	Left	2.555	2.570	99.42	0.03	0.03
		5290	RU996	Left	2.555	2.571	99.38	0.03	0.03
		5530	RU996	Left	2.555	2.570	99.42	0.03	0.03
		5610	RU996	Left	2.554	2.570	99.38	0.03	0.03
		5775	RU996	Left	2.555	2.571	99.38	0.03	0.03
802.11ax (HEW160)	MIMO	5570	2xRU996	Left	2.207	2.222	99.32	0.03	0.04
		5250	2xRU996	Left	2.206	2.222	99.28	0.03	0.00



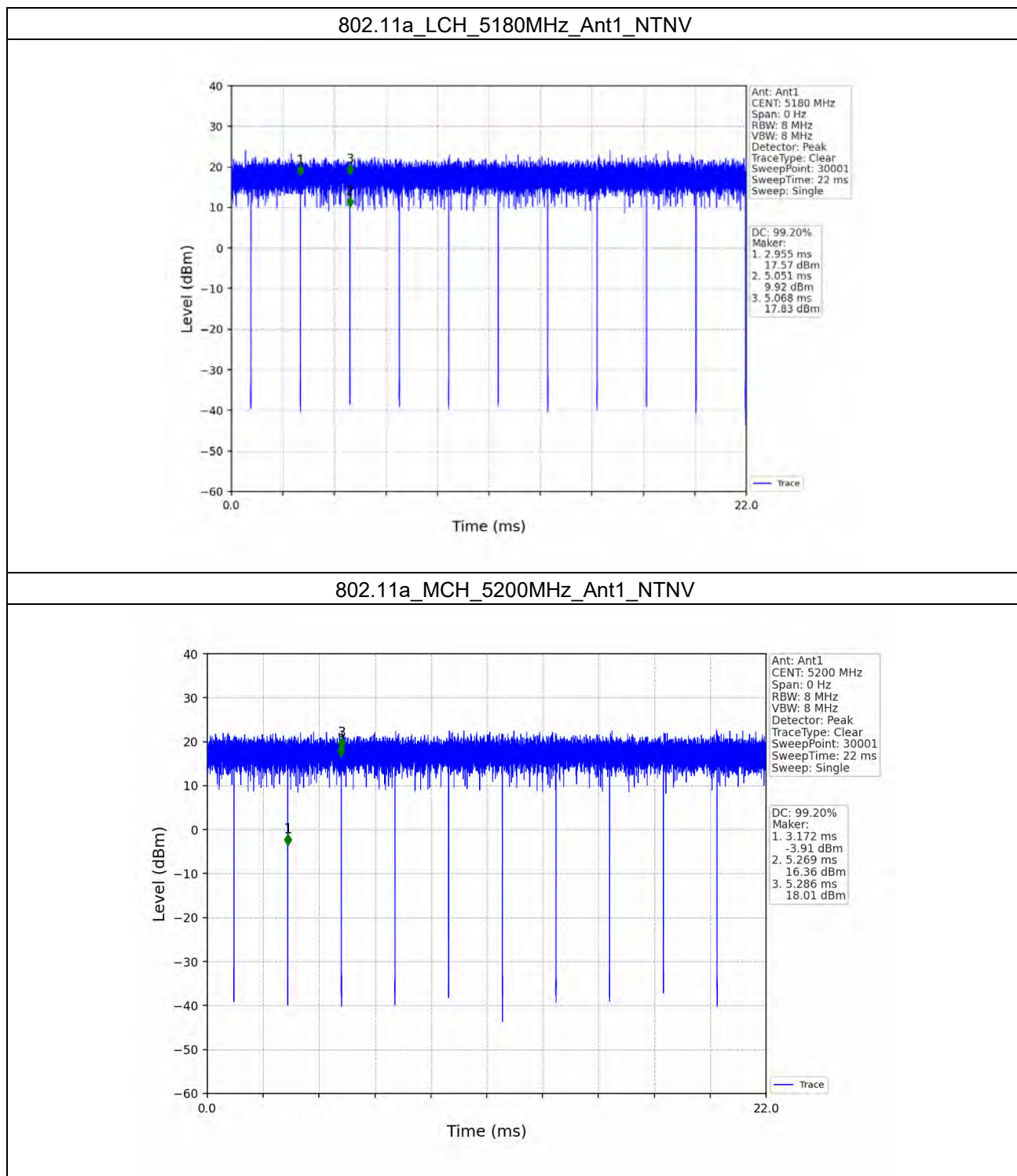
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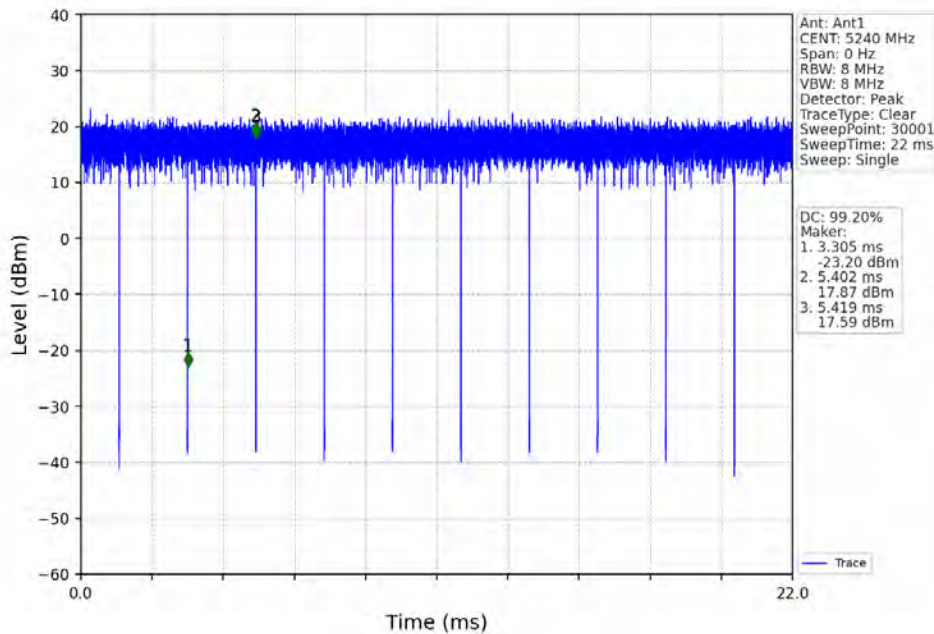
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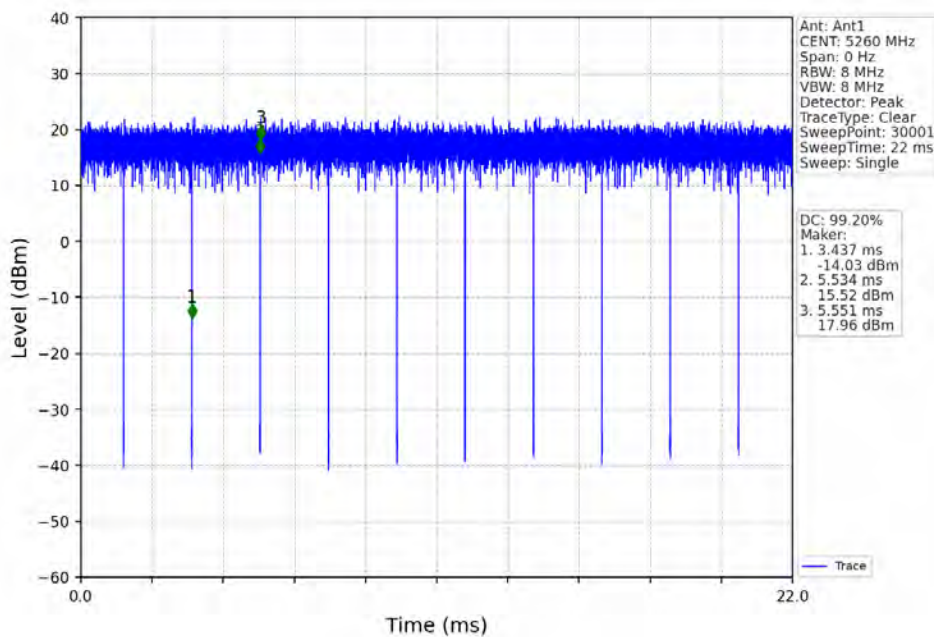
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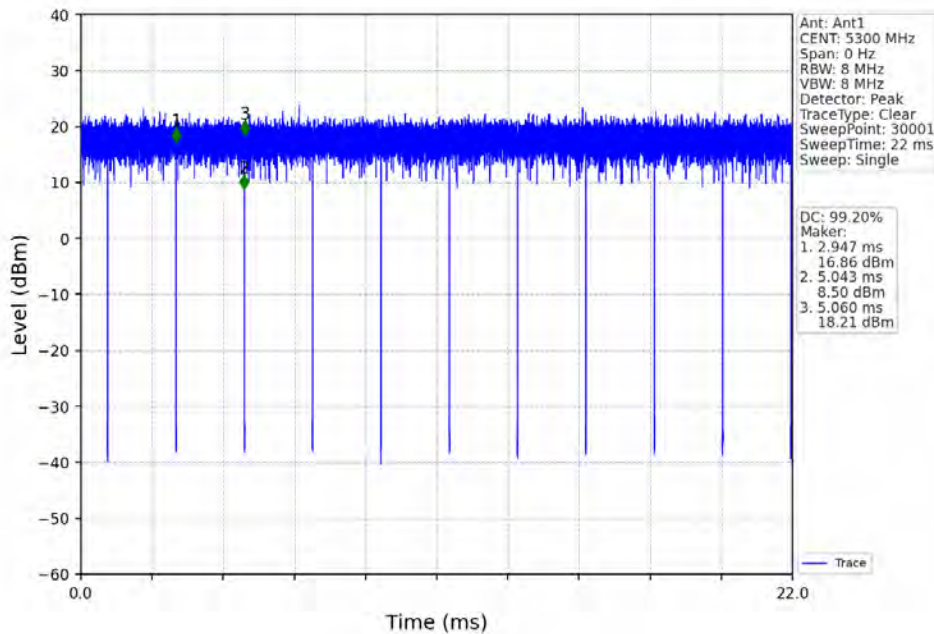
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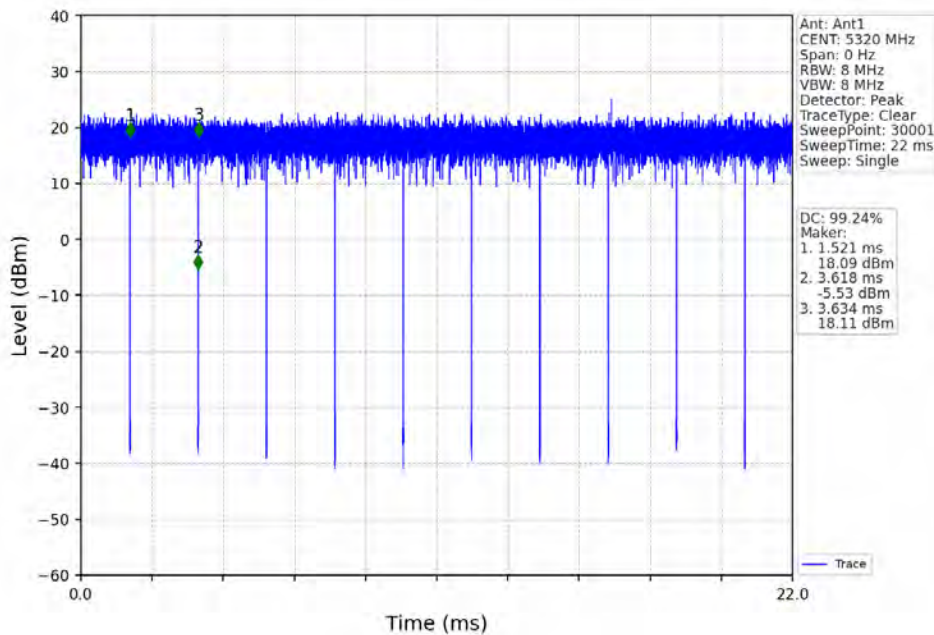
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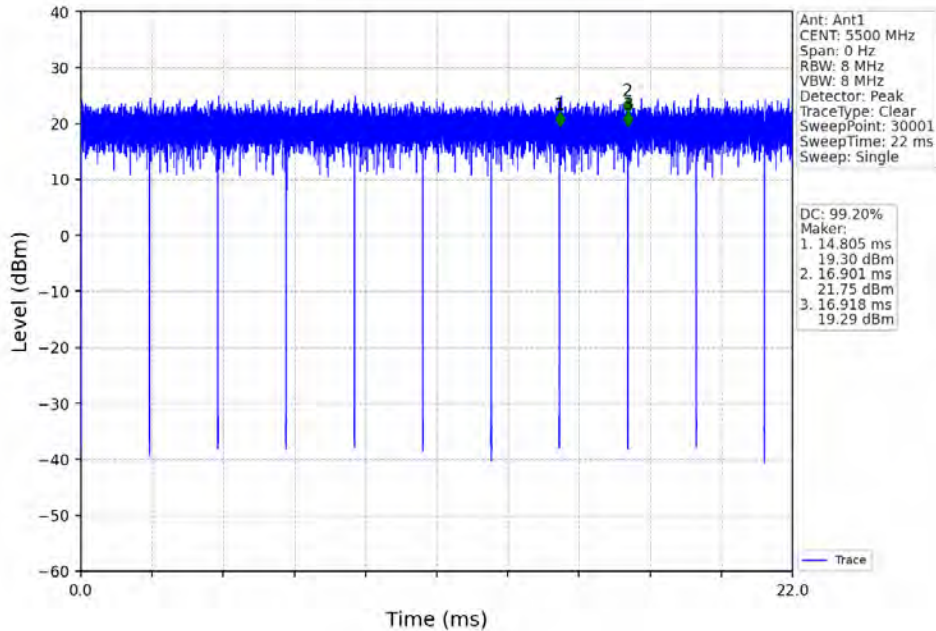
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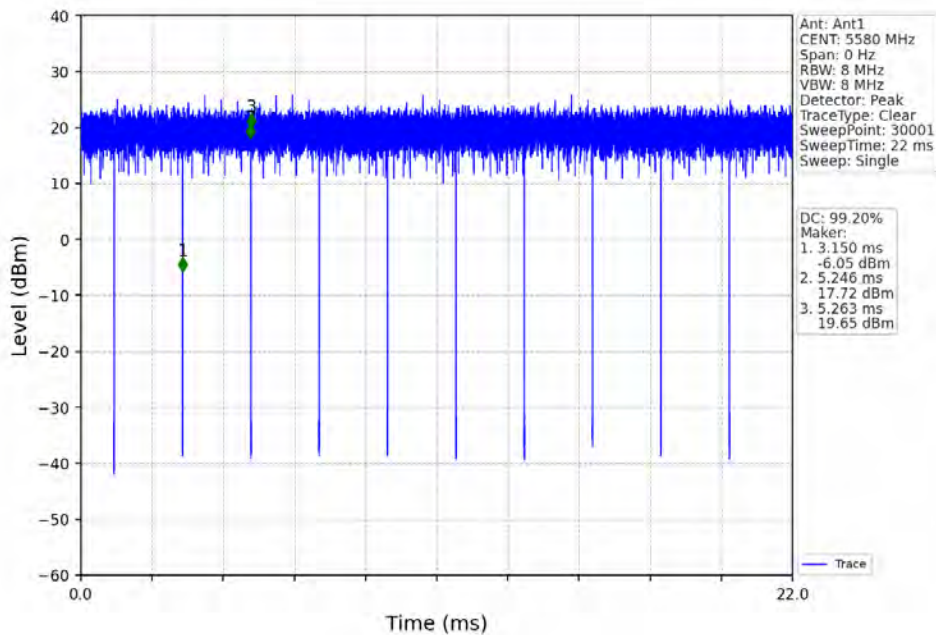
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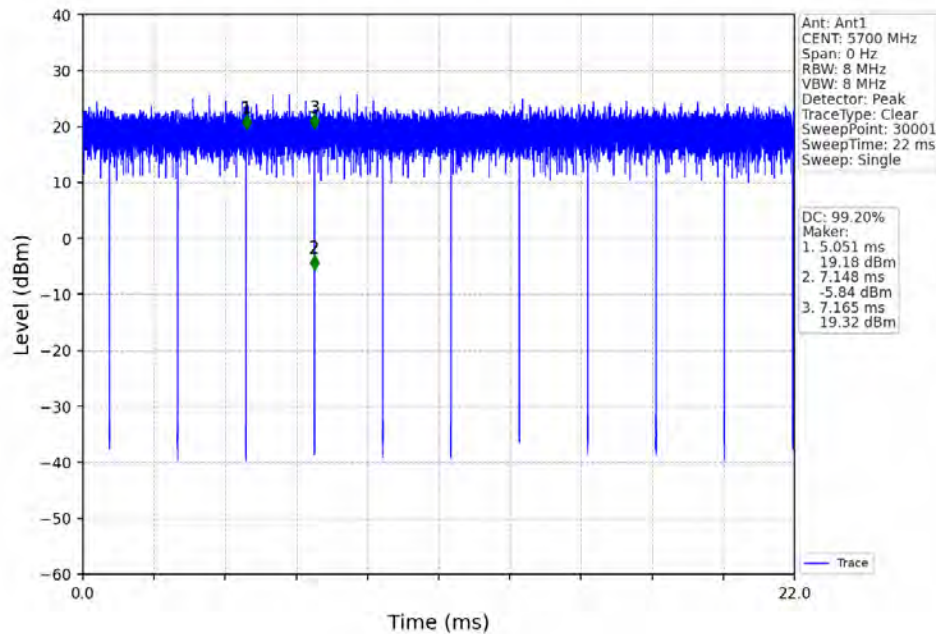
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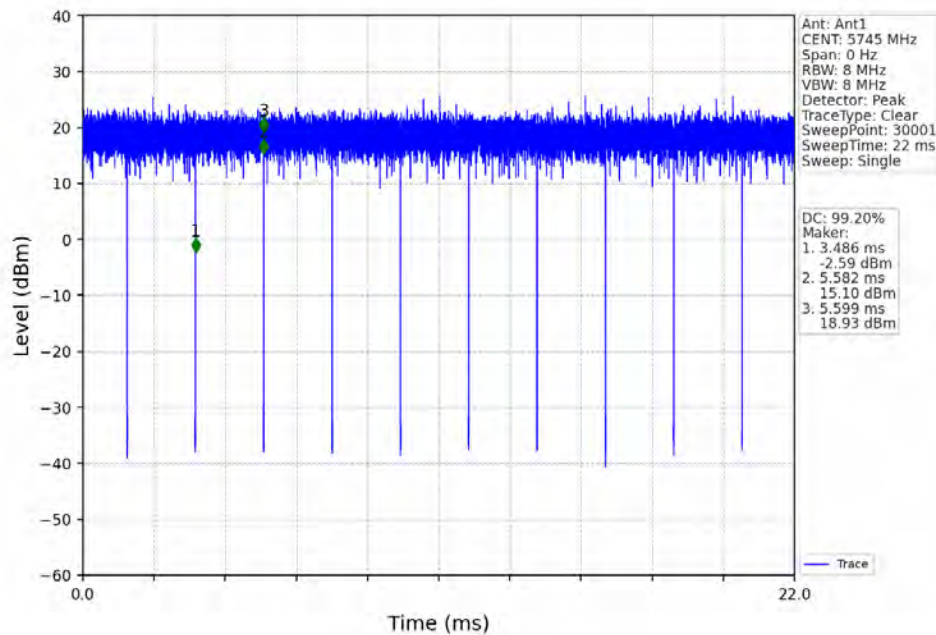
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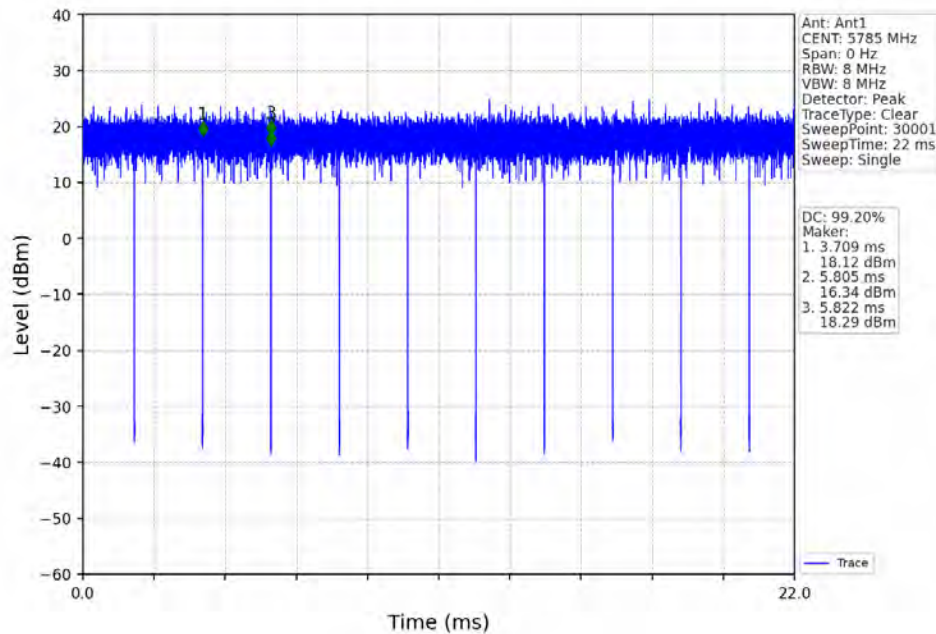
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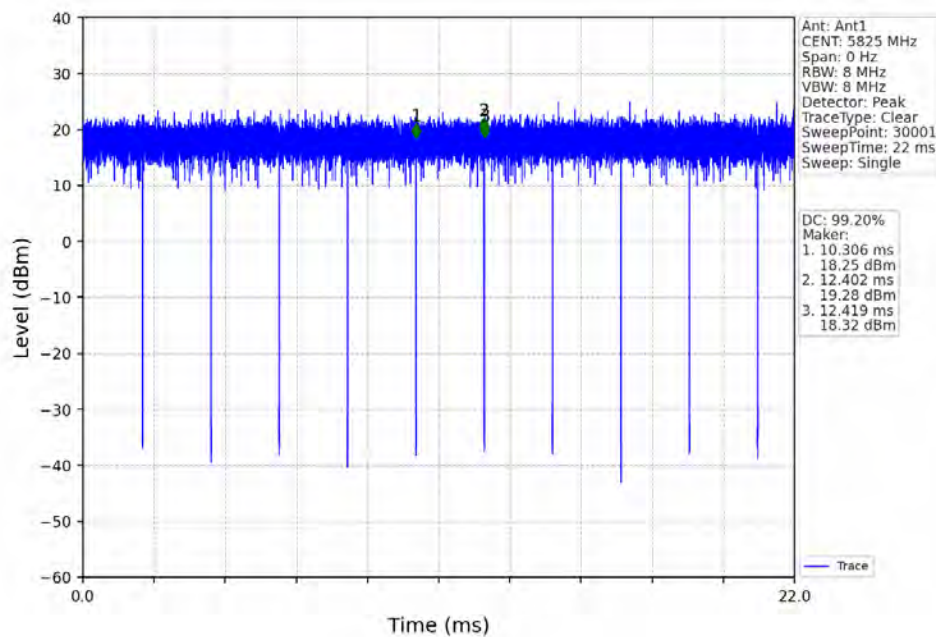
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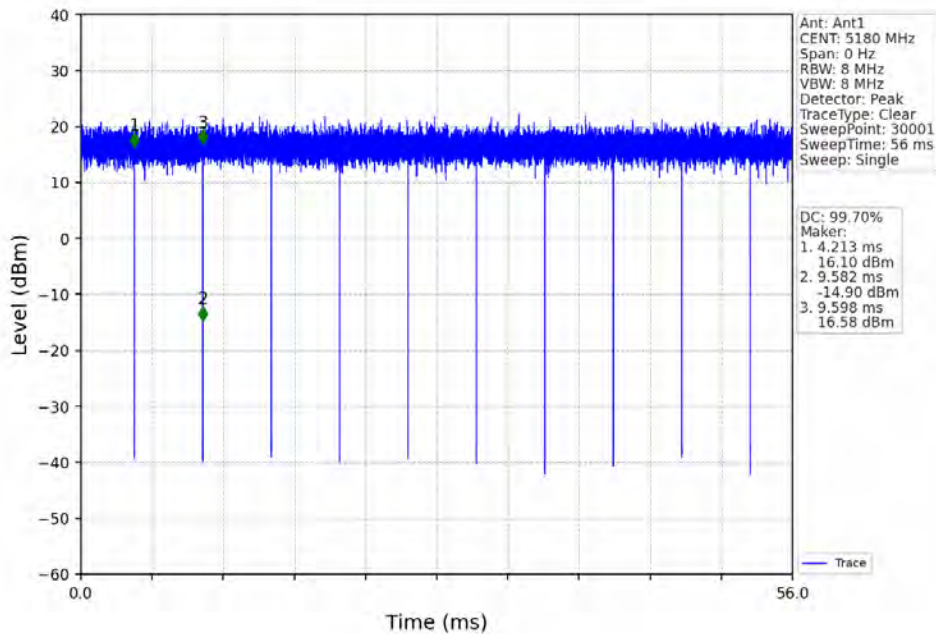
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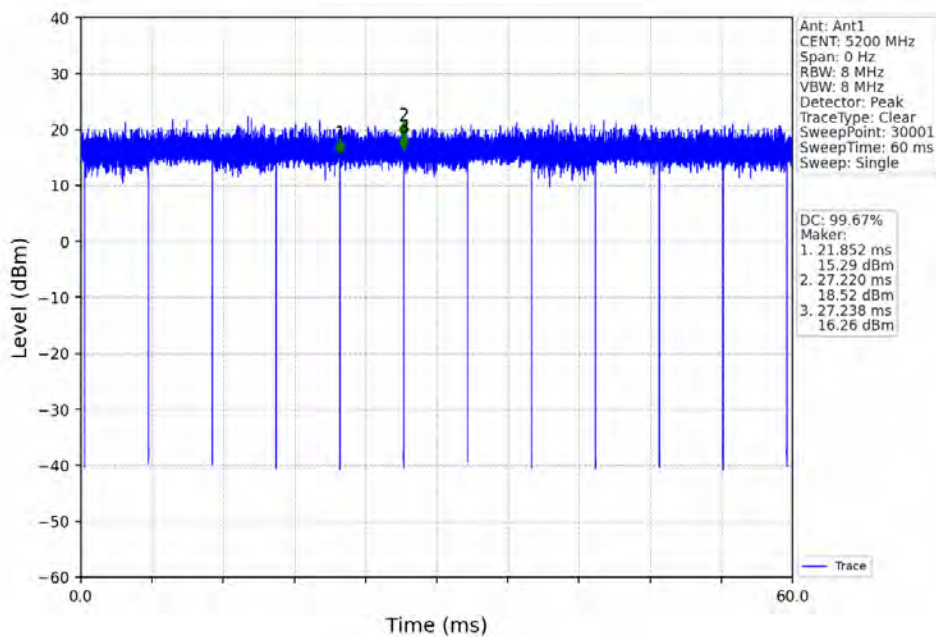
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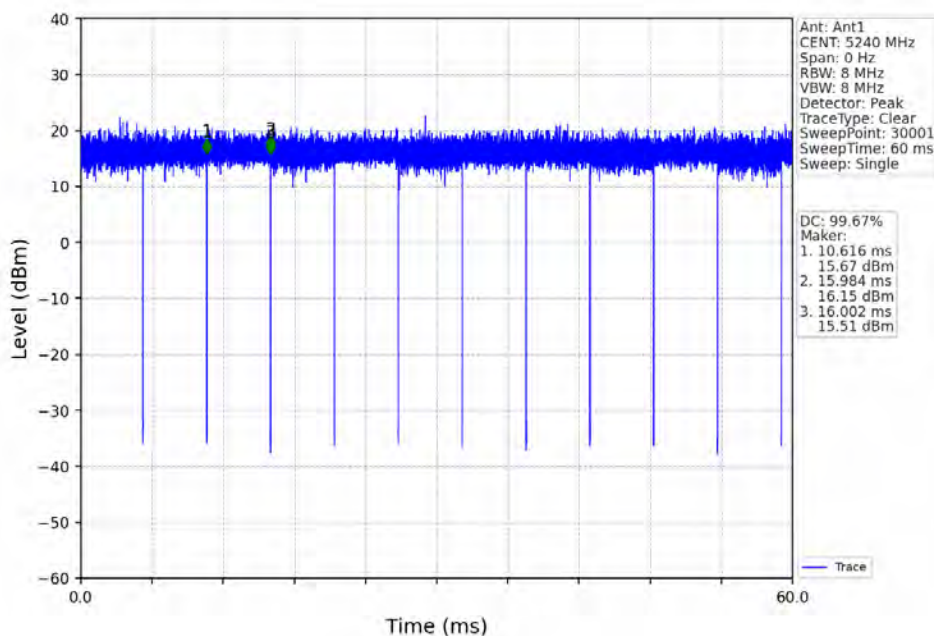
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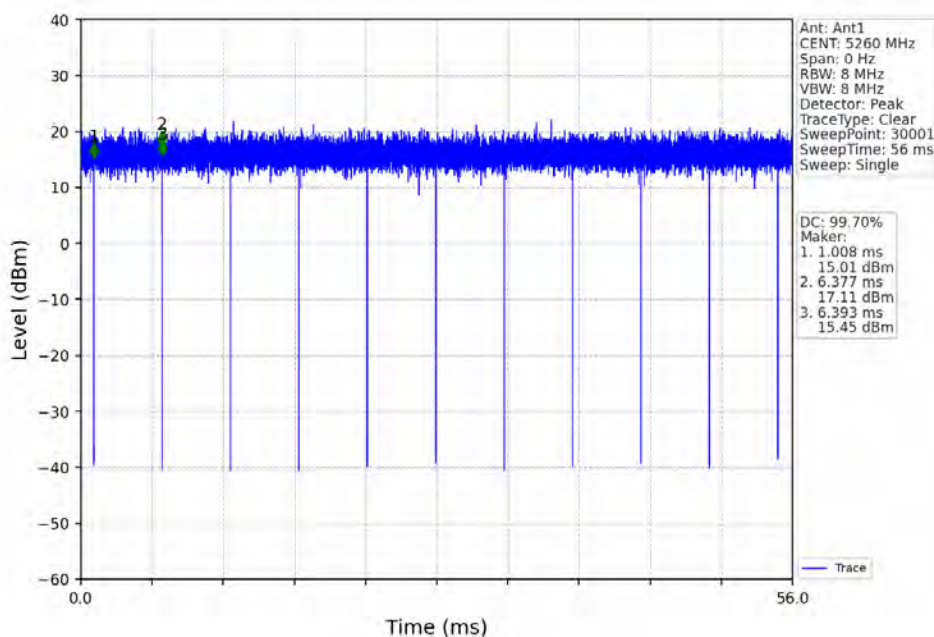
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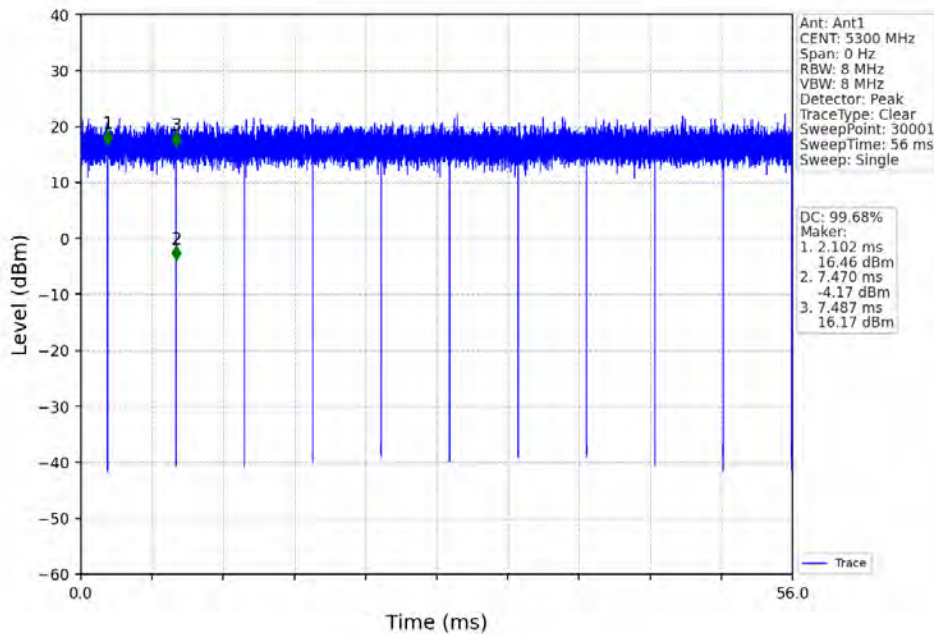
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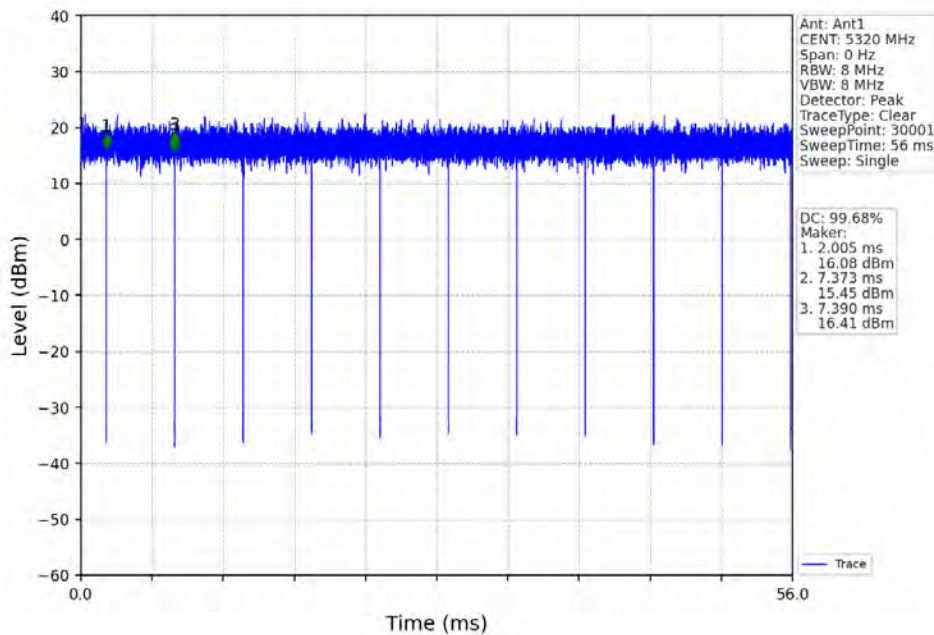
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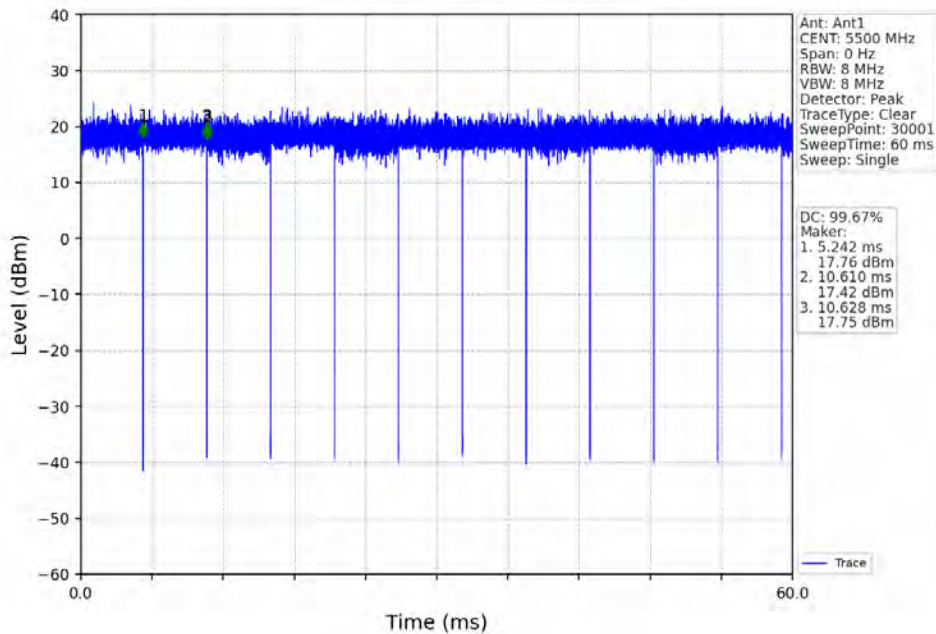
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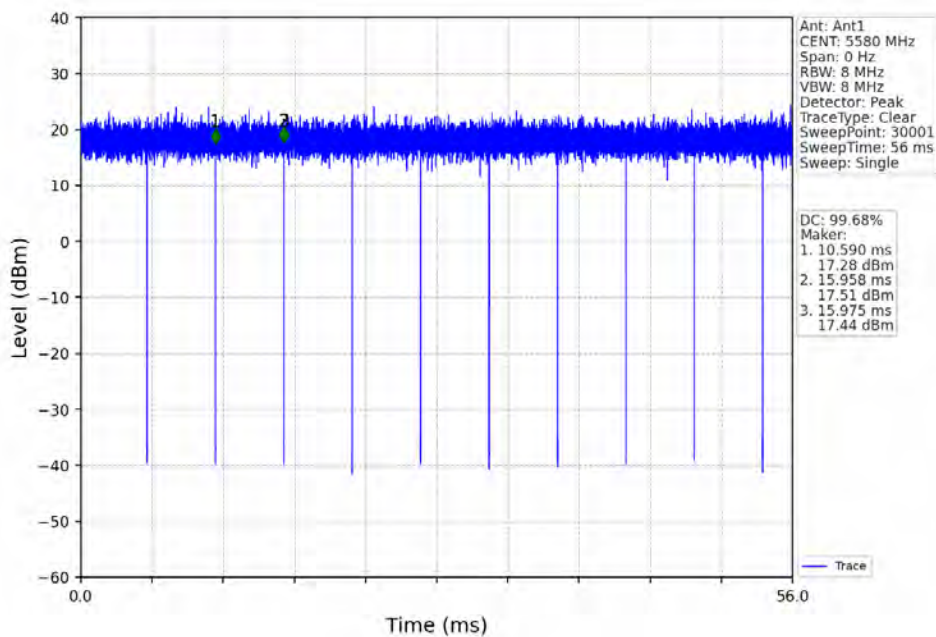
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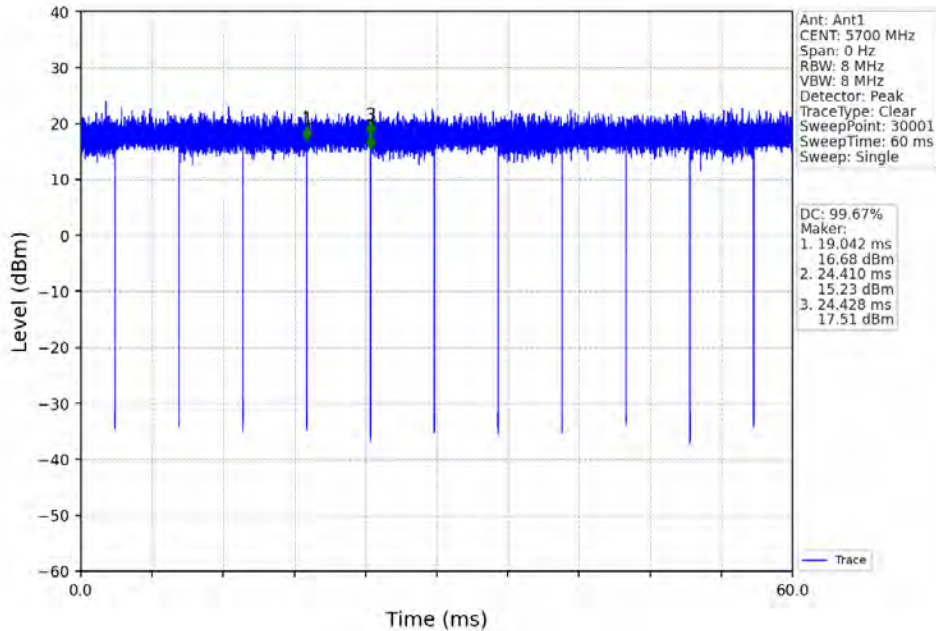
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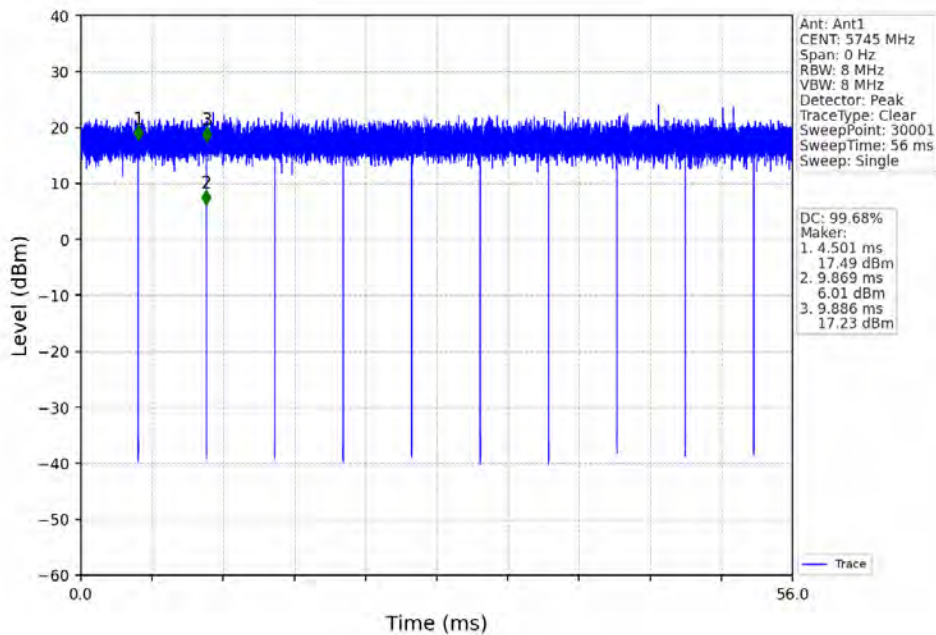
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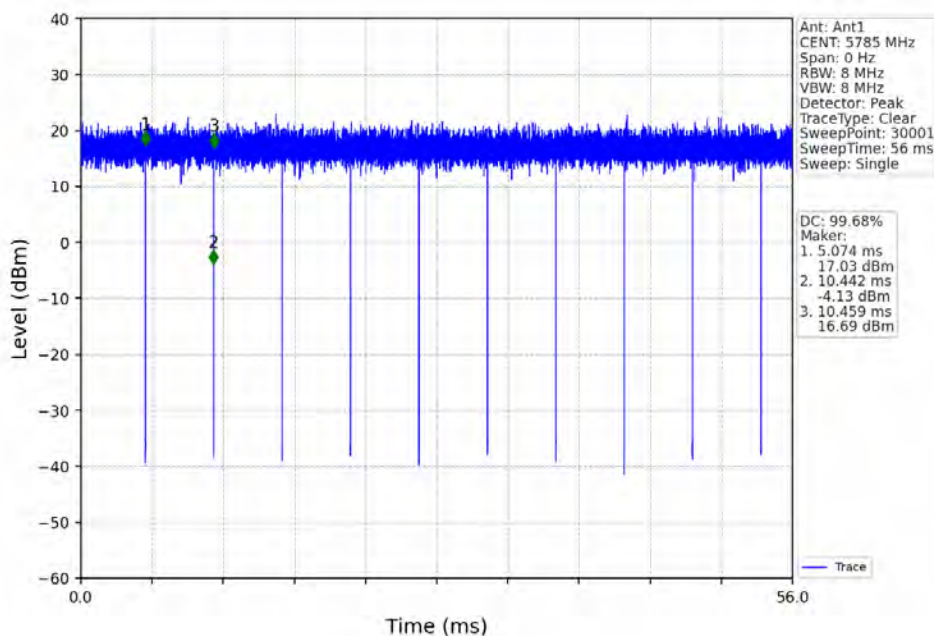
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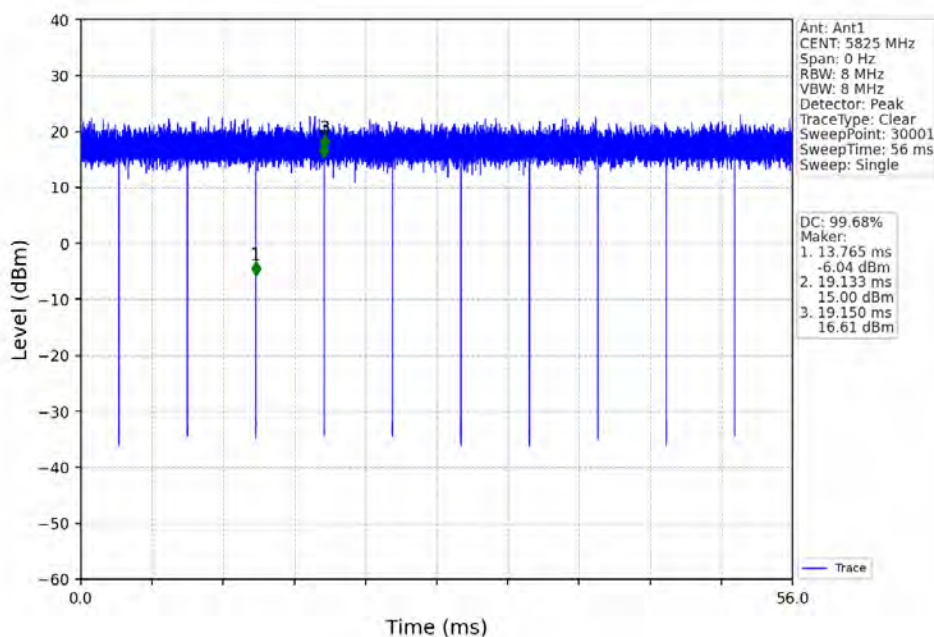
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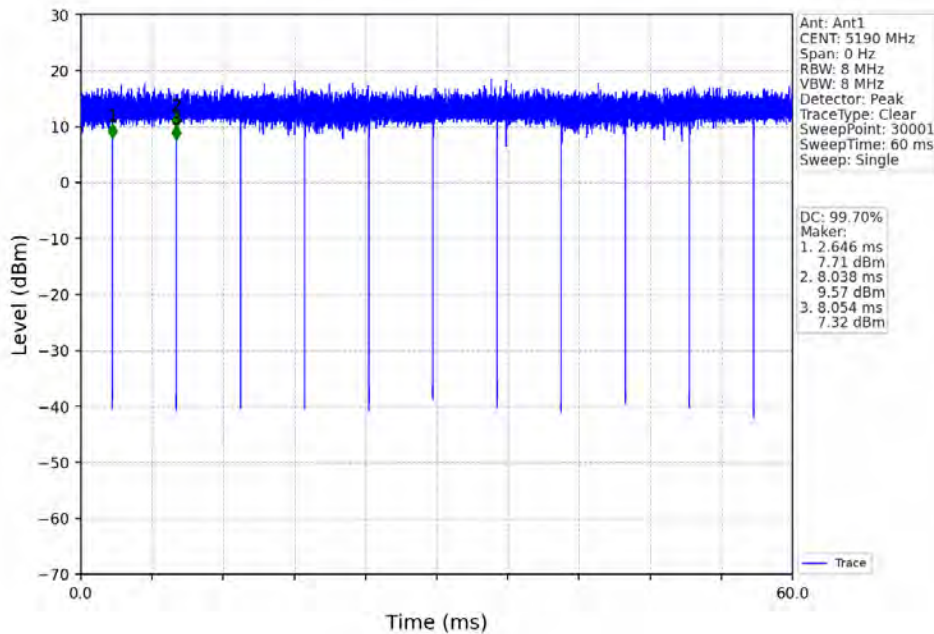
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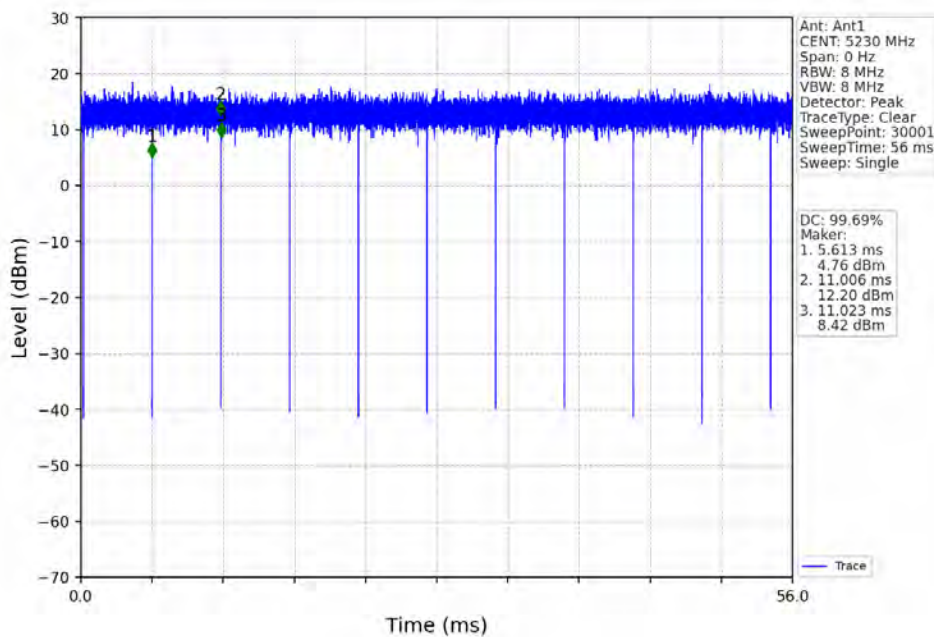
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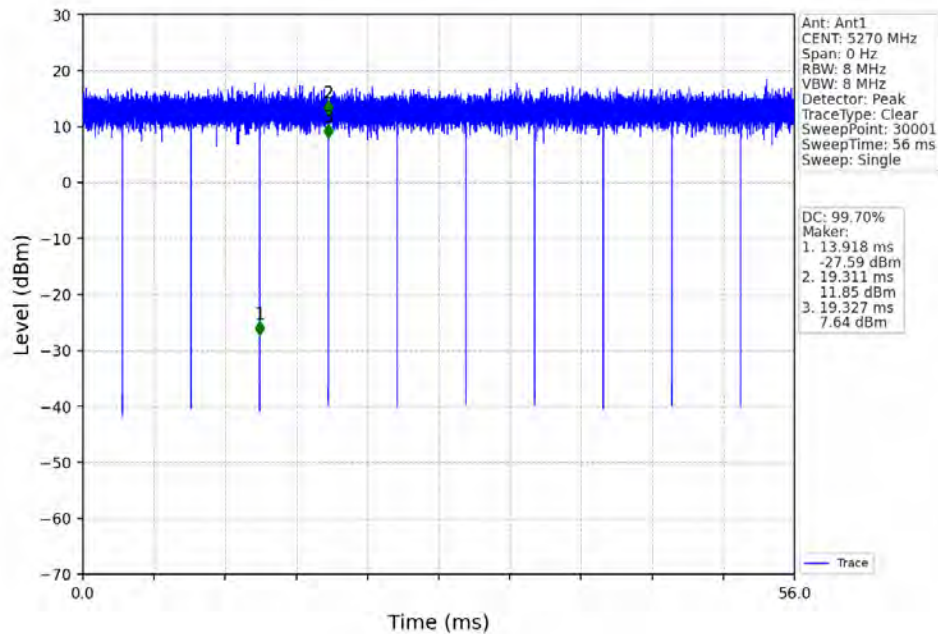
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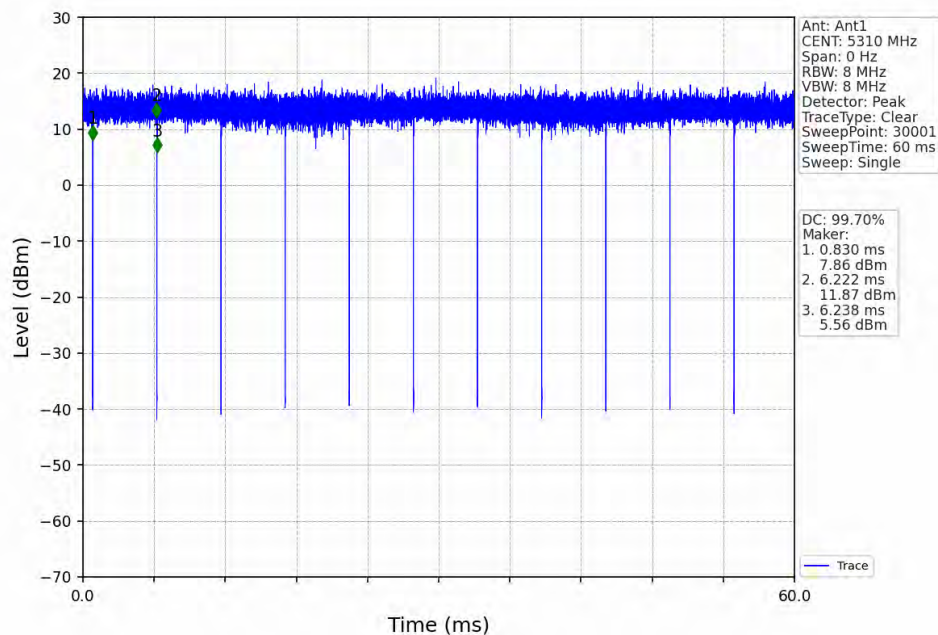
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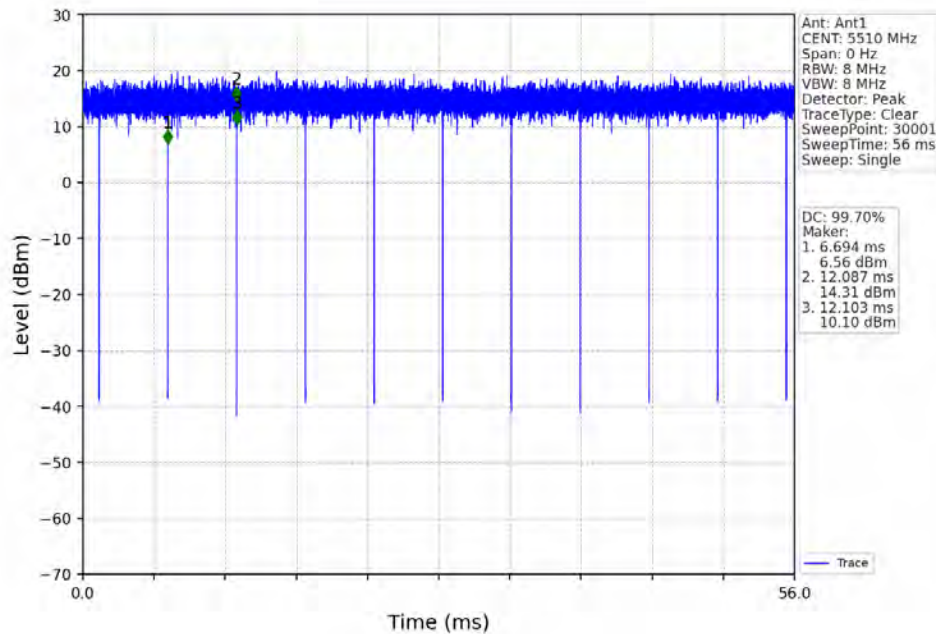
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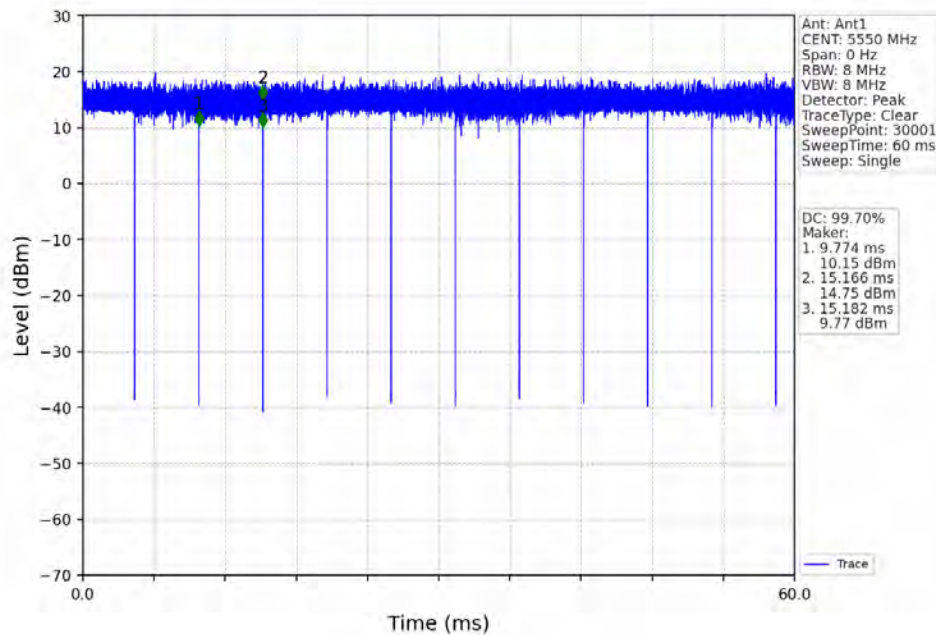
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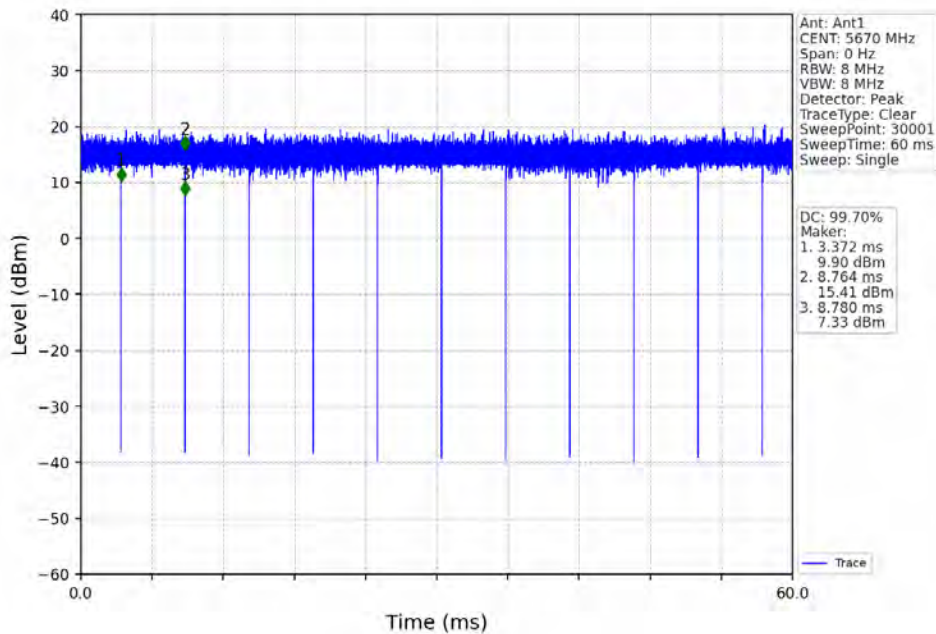
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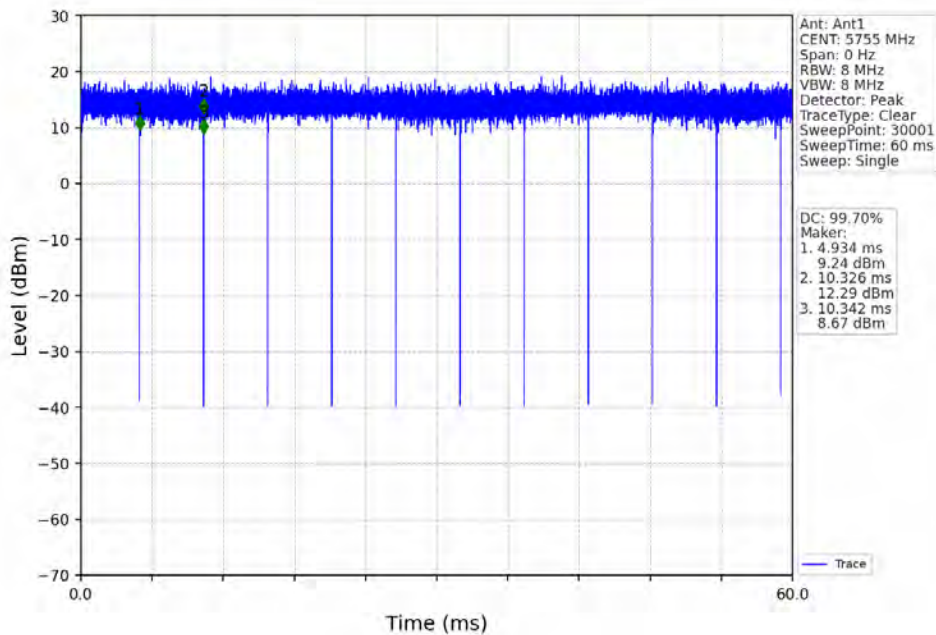
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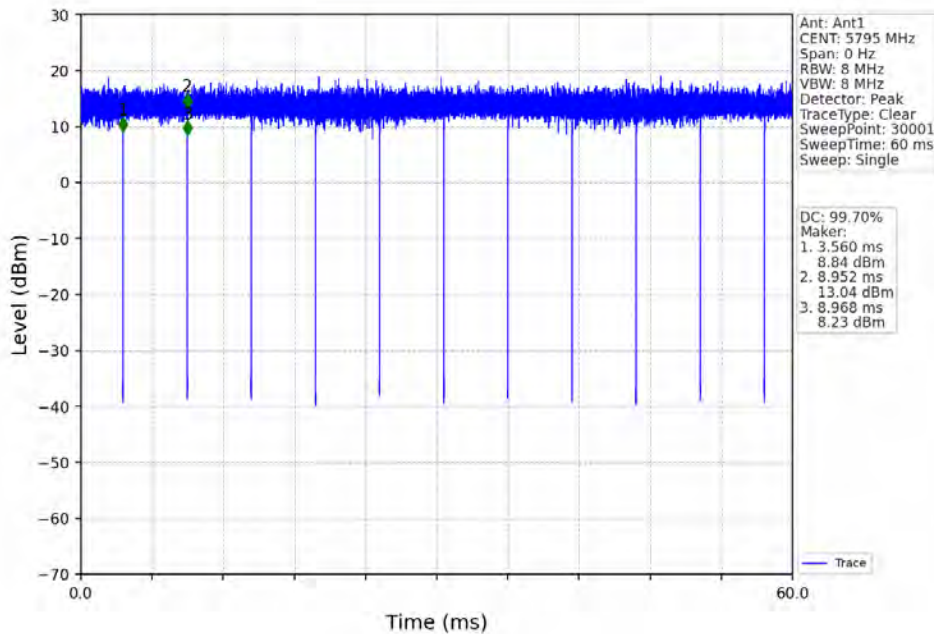
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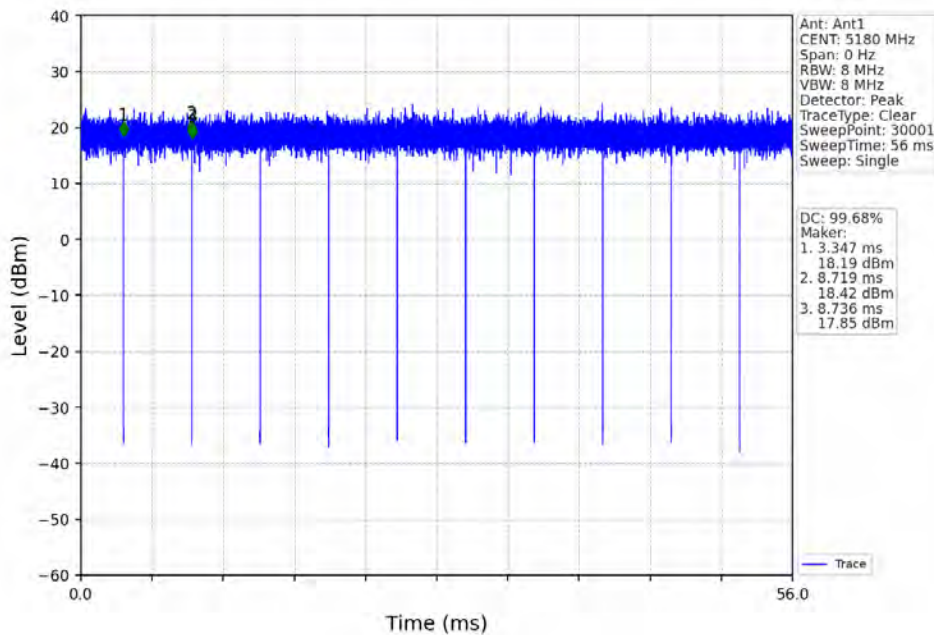
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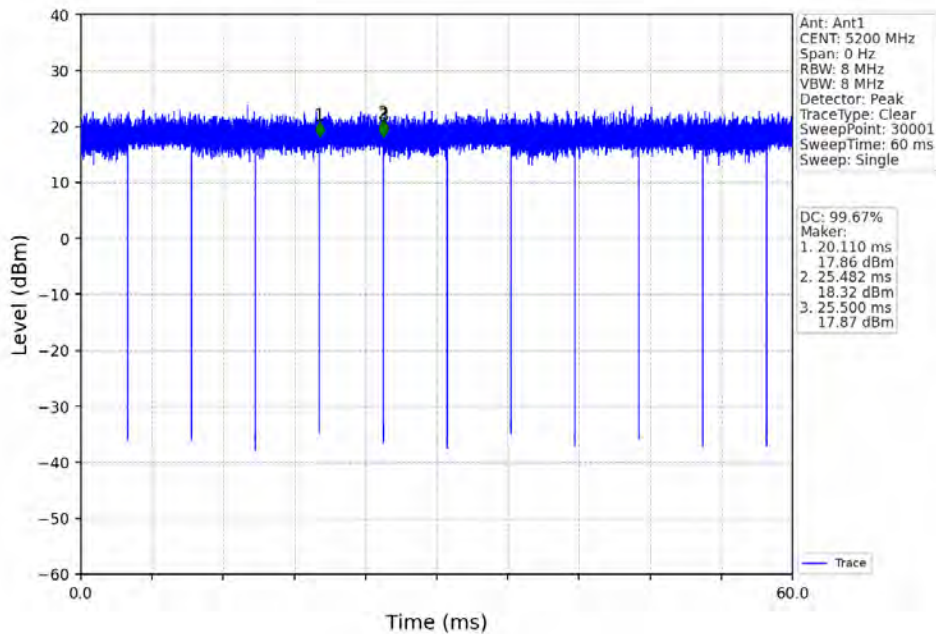
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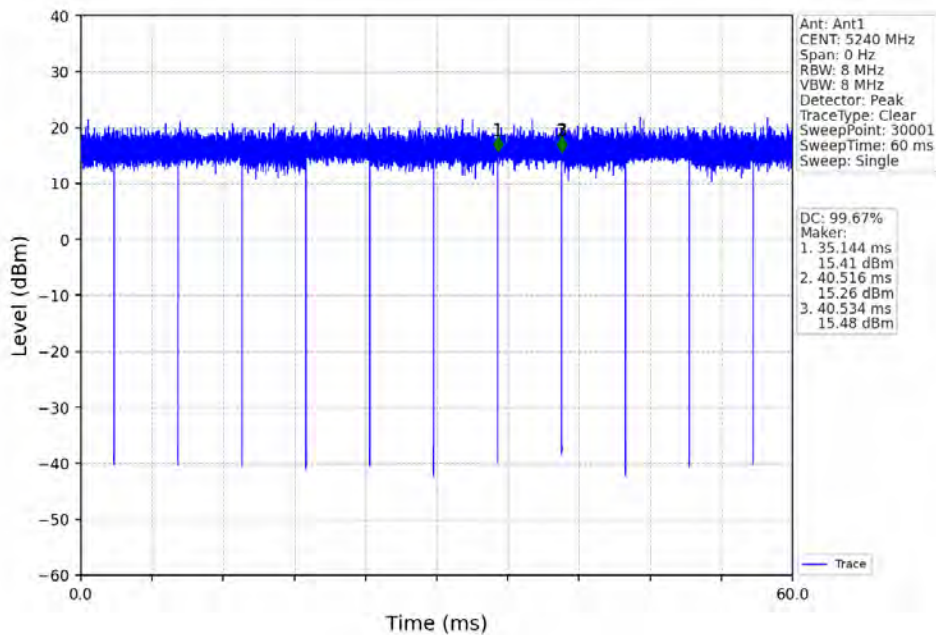
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



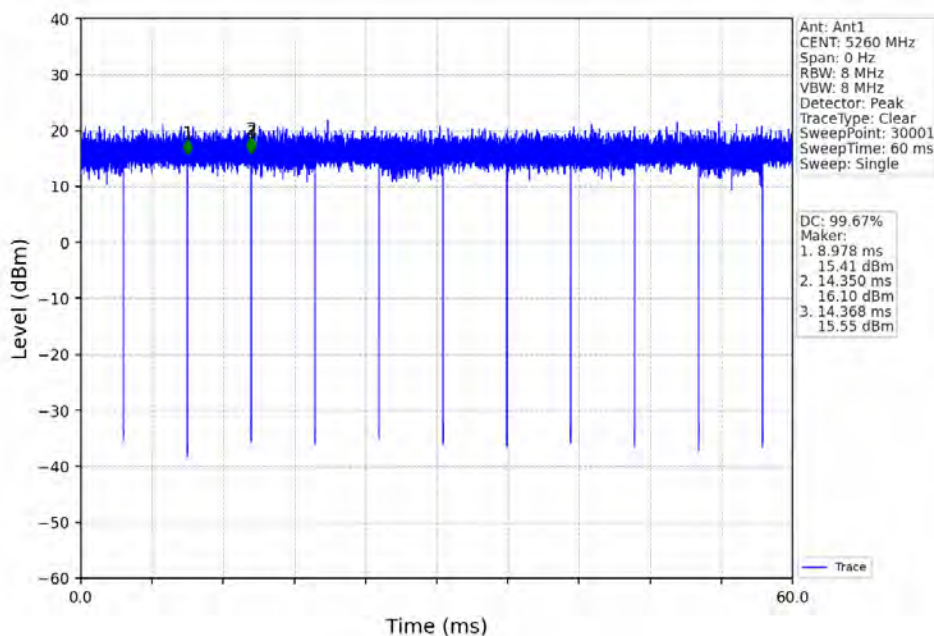
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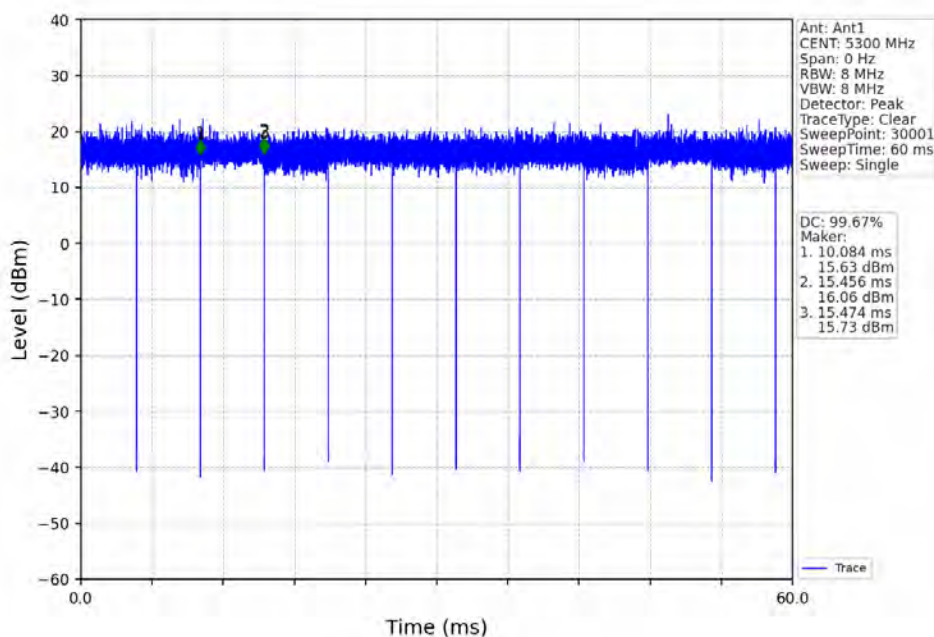
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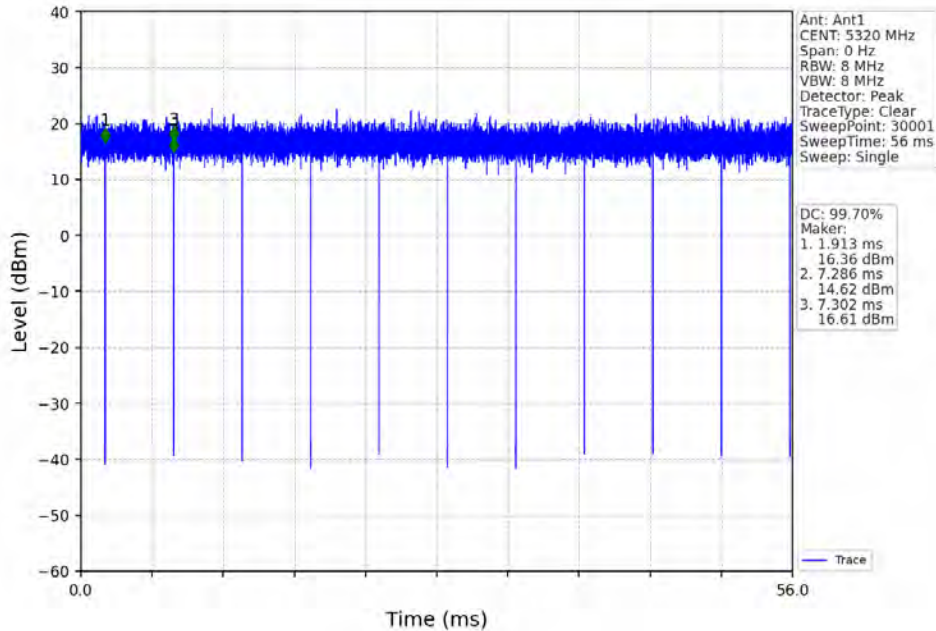
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



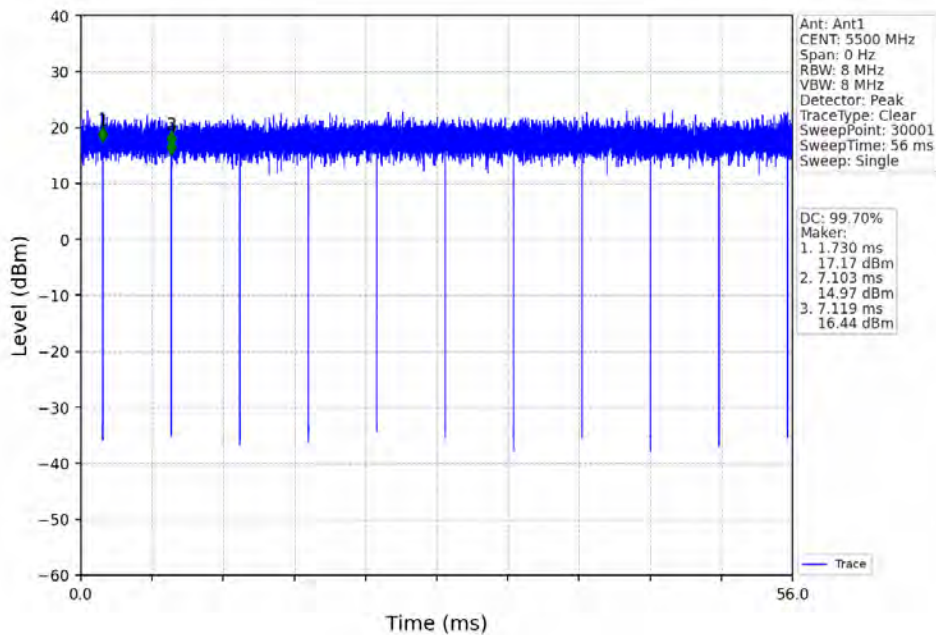
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802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



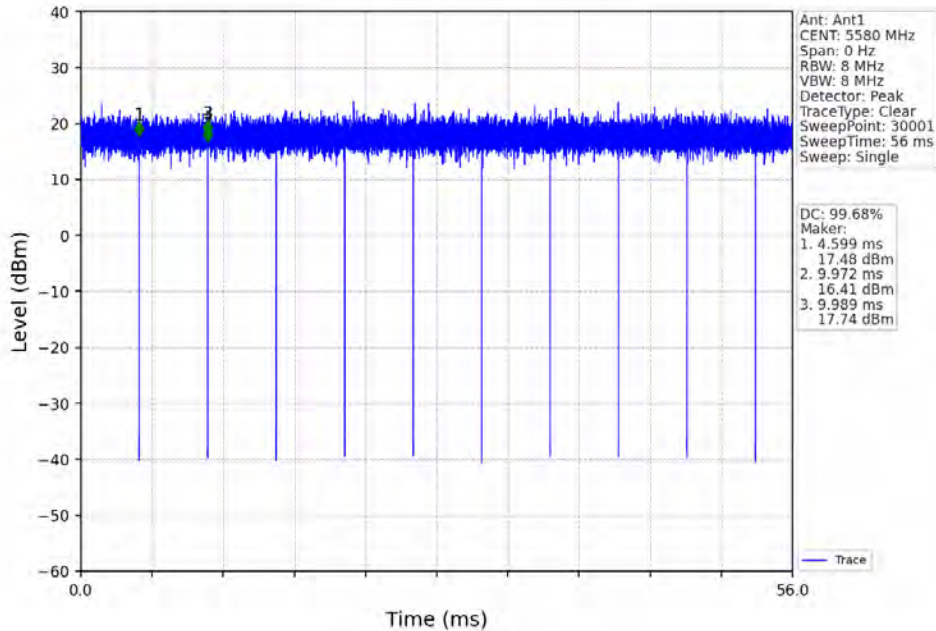
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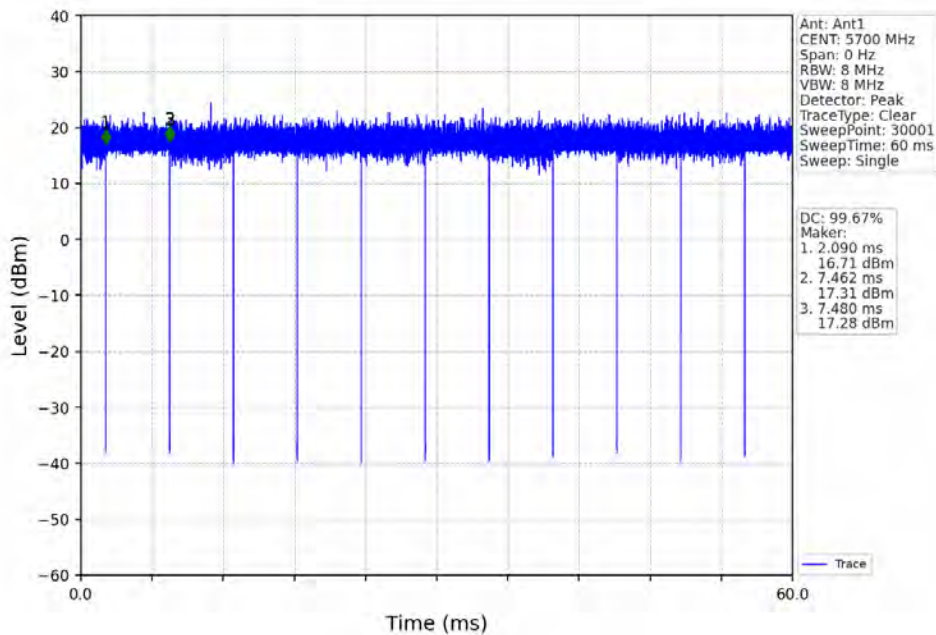
SGS-CSTC Standards Technical Services Co., Ltd.
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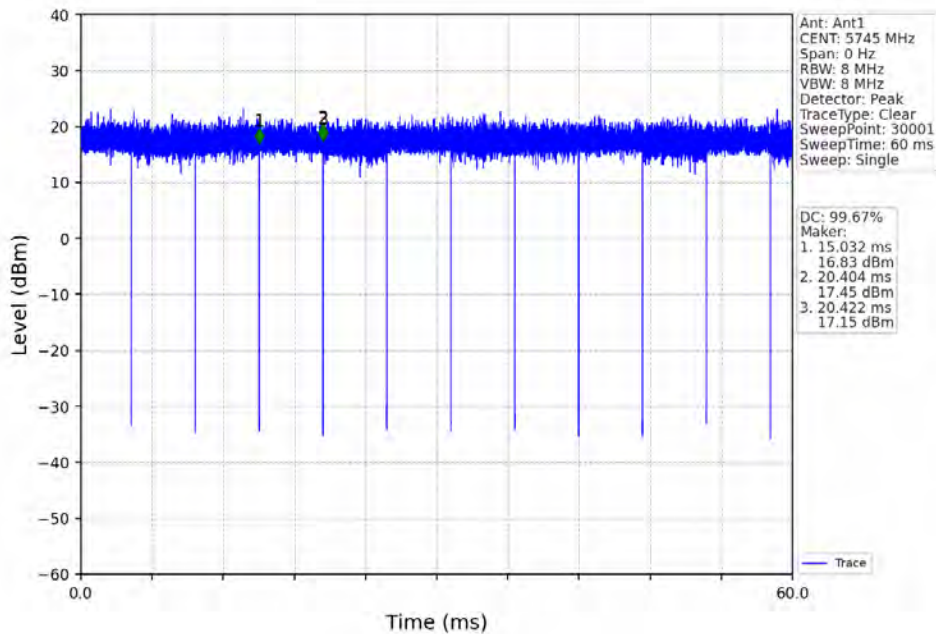
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802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV

