

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

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300073605

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TEST REPORT

Application No.: SZCR2303000736AT
Applicant: SZ DJI Osmo Technology Co., Ltd.
Address of Applicant: 4F, Jingkou Community Comprehensive Service Building, No. 83 Bishui Road North, Guangming Street, Guangming District, Shenzhen, China
Manufacturer: SZ DJI Osmo Technology Co., Ltd.
Address of Manufacturer: 4F, Jingkou Community Comprehensive Service Building, No. 83 Bishui Road North, Guangming Street, Guangming District, Shenzhen, China
Factory: SZ DJI Ronin Technology Co., Ltd.
Address of Factory: Floor 4-5, Block 13, Area 7, Baiwangxin Industrial Park, Songbai Rd, Nanshan District, Shenzhen City, Guangdong Province, P. R. China
Equipment Under Test (EUT):
EUT Name: Osmo Action 4
Model No.: AC003
Trade Mark: DJI
FCC ID: 2ANDR-AC0032023
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2023-03-20
Date of Test: 2023-03-31 to 2023-04-17
Date of Issue: 2023-05-16

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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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-05-16		Original

Authorized for issue by:				
		Darren Yuan		
		Darren Yuan/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Duty Cycle		KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
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 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
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 (Below 1GHz)		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

Remark: KDB 789033 D02 is not accredited by A2LA



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4 General Information

4.1 Details of E.U.T.

Power supply:	Powered by Lithium Ion Polymer Rechargeable Battery Battery information: Model: BCX202-1770-3.85 Nominal Voltage: 3.85V Rated Capacity: 1770mAh 6.81Wh
Cable(s):	Type-C Cable: 50cm unshielded
Operation Frequency/Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels) U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	U-NII-1: 5190-5230MHz (2 Channels) U-NII-3: 5755-5795MHz (2 Channels)
Operation Frequency/Number of channels (80MHz):	U-NII-1: 5210MHz (1 Channel) U-NII-3: 5775MHz (1 Channel)
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n(HT20)/ac(HT20): 20MHz 802.11n(HT40)/ac(HT40): 40MHz 802.11ac(HT80): 80MHz
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	Integral Antenna
Antenna Gain:	U-NII-1: 1dBi, U-NII-3: 0.7dBi

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	HUAWEI	HW-20032SBP0	N/A

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
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 which fall in the restricted bands	$\pm 4.5\text{dB}$ (below 1GHz); $\pm 4.8\text{dB}$ (above 1GHz);
Radiated Emissions (Above 1GHz)	$\pm 4.8\text{dB}$
Radiated Emissions (Below 1GHz)	$\pm 4.5\text{dB}$
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.

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4.4 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd.

Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2023-03-20	2024-03-19
Matching Pad	N/A	N/A	SEM021-23	2023-03-22	2024-03-21
Matching Pad	N/A	N/A	SEM021-24	2023-03-22	2024-03-21
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2022-07-08	2023-07-07
LISN	Rohde&Schwarz	ENV216	SEM007-01	2022-09-20	2023-09-19
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19

Duty Cycle					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2022-09-29	2023-09-28
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

99% Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2022-09-29	2023-09-28
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20



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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	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2022-09-29	2023-09-28
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

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	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2022-09-29	2023-09-28
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

Maximum Conducted output power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2022-09-29	2023-09-28
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20



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Peak Power spectrum density					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2022-09-29	2023-09-28
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07



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Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2022-10-20	2023-10-19
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2021-10-28	2023-10-27
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2023-03-31	2024-03-30
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2022-07-08	2023-07-07

Frequency Stability					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2022-09-29	2023-09-28
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2022-09-04	2023-09-03
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022-09-04	2023-09-03
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22



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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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of 15.211, 15.213, 15.217, 15.219, 15.221, or 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is U-NII-1: 1dBi, U-NII-3: 0.7dBi

Antenna location: Refer to internal photo.



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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details:

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



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7 Radio Spectrum Matter Test Results

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

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

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 50.1 % RH Atmospheric Pressure: 1015 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	Charge + TX mode (U-NII-1)_Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	12	Charge + TX mode (U-NII-3)_Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

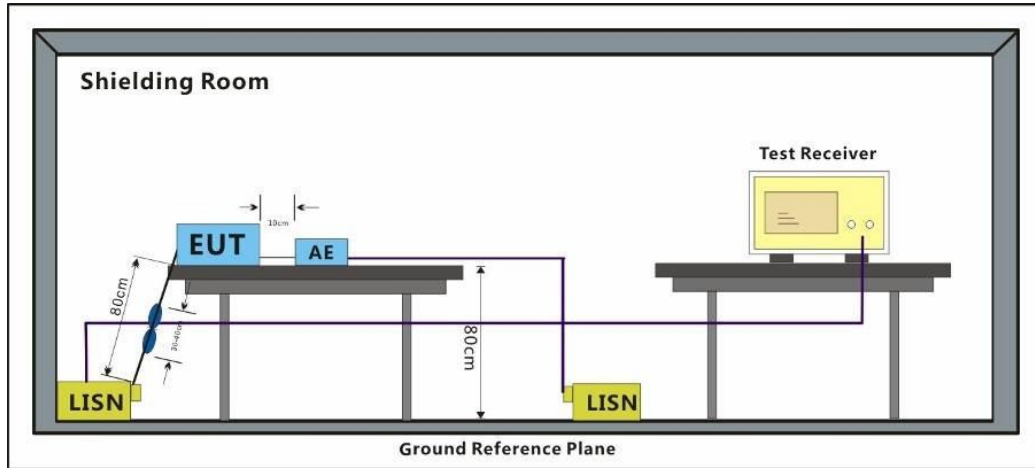


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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

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

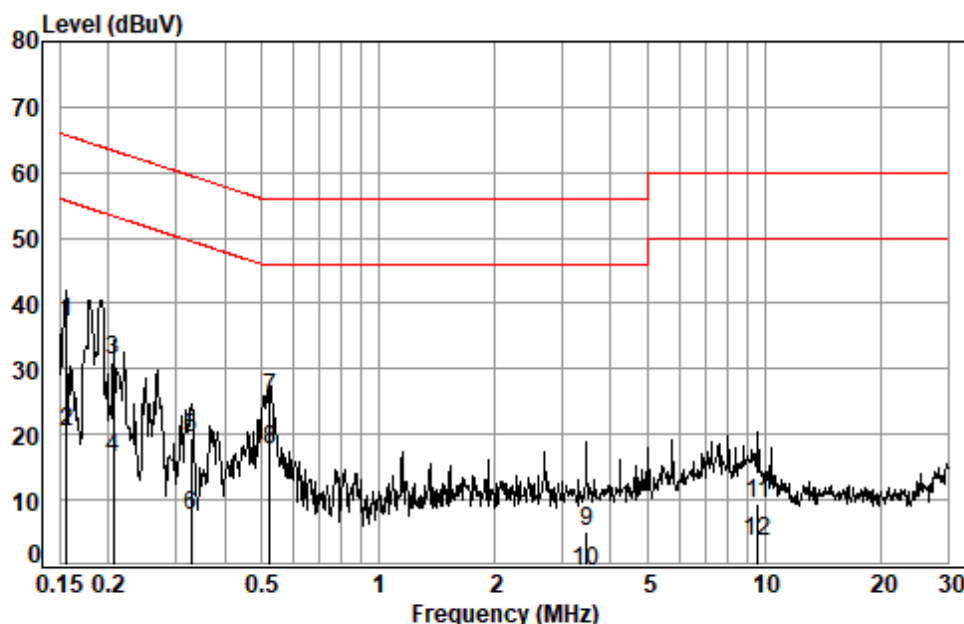
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Test Mode: 11; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 00736AT
Test mode: 11

		Cable	LISN	Read		Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1557	0.03	9.76	27.46	37.25	65.69	-28.44	QP
2	0.1557	0.03	9.76	10.66	20.45	55.69	-35.24	Average
3	0.2061	0.04	9.76	21.40	31.20	63.36	-32.16	QP
4	0.2061	0.04	9.76	6.66	16.46	53.36	-36.90	Average
5	0.3268	0.05	9.76	9.75	19.56	59.53	-39.97	QP
6	0.3268	0.05	9.76	-2.08	7.73	49.53	-41.80	Average
7	0.5238	0.06	9.76	15.75	25.57	56.00	-30.43	QP
8 *	0.5238	0.06	9.76	7.73	17.55	46.00	-28.45	Average
9	3.4538	0.13	9.85	-4.83	5.15	56.00	-50.85	QP
10	3.4538	0.13	9.85	-10.85	-0.87	46.00	-46.87	Average
11	9.6028	0.21	10.24	-1.13	9.32	60.00	-50.68	QP
12	9.6028	0.21	10.24	-6.74	3.71	50.00	-46.29	Average

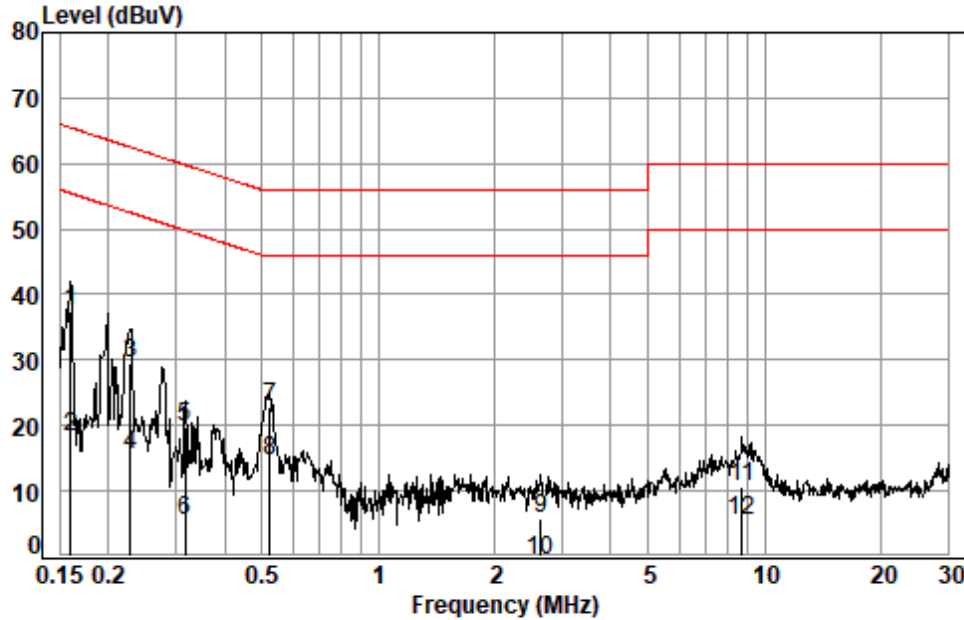


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Test Mode: 11; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00736AT
Test mode: 11

		Cable	LISN	Read		Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1598	0.03	9.73	27.68	37.44	65.47	-28.03	QP
2	0.1598	0.03	9.73	8.51	18.27	55.47	-37.20	Average
3	0.2280	0.04	9.73	19.72	29.49	62.52	-33.03	QP
4	0.2280	0.04	9.73	5.70	15.47	52.52	-37.05	Average
5	0.3166	0.05	9.73	9.94	19.72	59.80	-40.08	QP
6	0.3166	0.05	9.73	-4.25	5.53	49.80	-44.27	Average
7	0.5238	0.06	9.74	13.16	22.96	56.00	-33.04	QP
8 *	0.5238	0.06	9.74	4.78	14.58	46.00	-31.42	Average
9	2.6360	0.12	9.82	-4.23	5.71	56.00	-50.29	QP
10	2.6360	0.12	9.82	-10.69	-0.75	46.00	-46.75	Average
11	8.7293	0.20	10.21	0.24	10.65	60.00	-49.35	QP
12	8.7293	0.20	10.21	-4.93	5.48	50.00	-44.52	Average



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7.2 Duty Cycle

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

7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 25.5 °C Humidity: 55.2 % RH Atmospheric Pressure: 1015 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	10	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

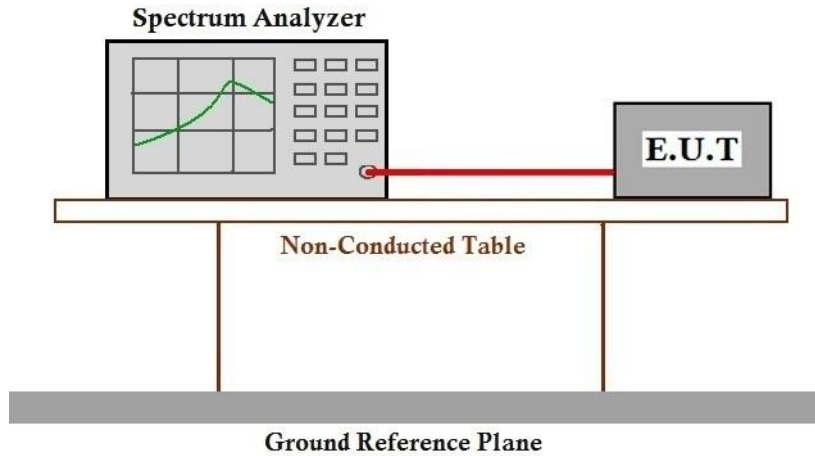


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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.3 99% Bandwidth

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

7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 25.5 °C Humidity: 55.2 % RH Atmospheric Pressure: 1015 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	10	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

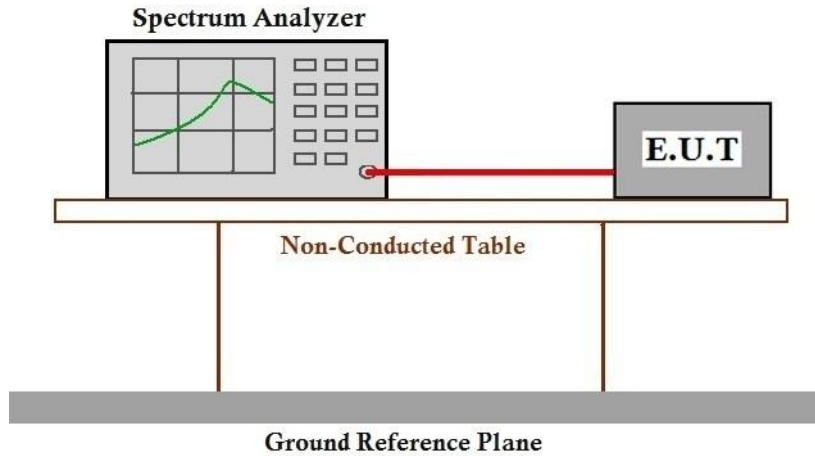


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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.4 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 55.2 % RH Atmospheric Pressure: 1015 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	10	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

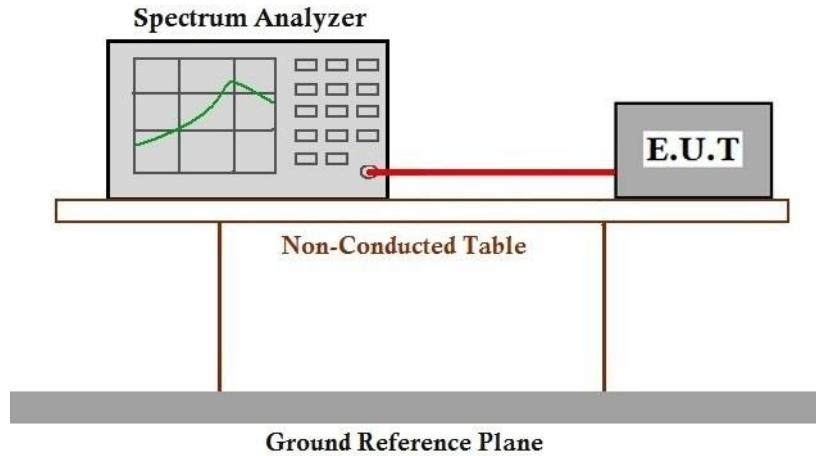


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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.5 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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 55.2 % RH Atmospheric Pressure: 1015 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

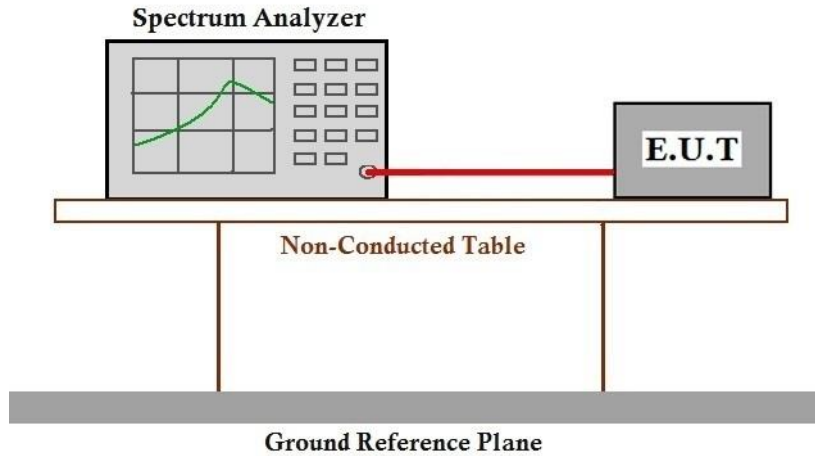


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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.6 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) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device 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.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 55.2 % RH Atmospheric Pressure: 1015 mbar



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7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	10	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

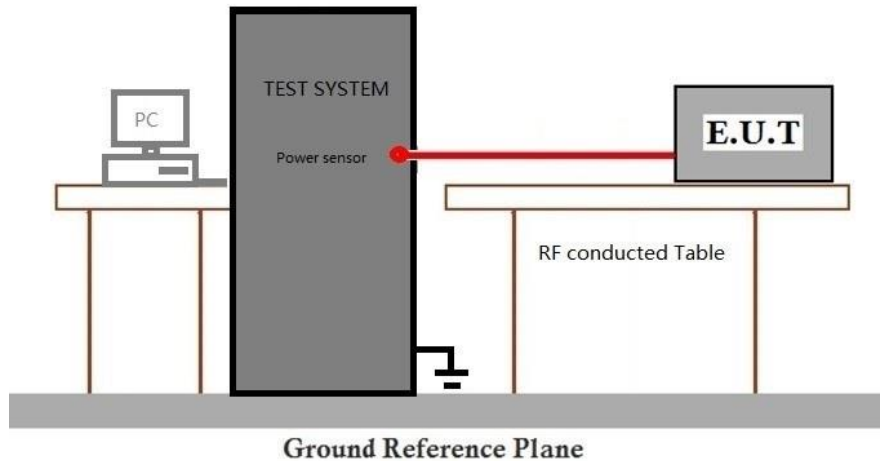


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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

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

7.7 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.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C

Humidity: 55.2 % RH

Atmospheric Pressure: 1015 mbar



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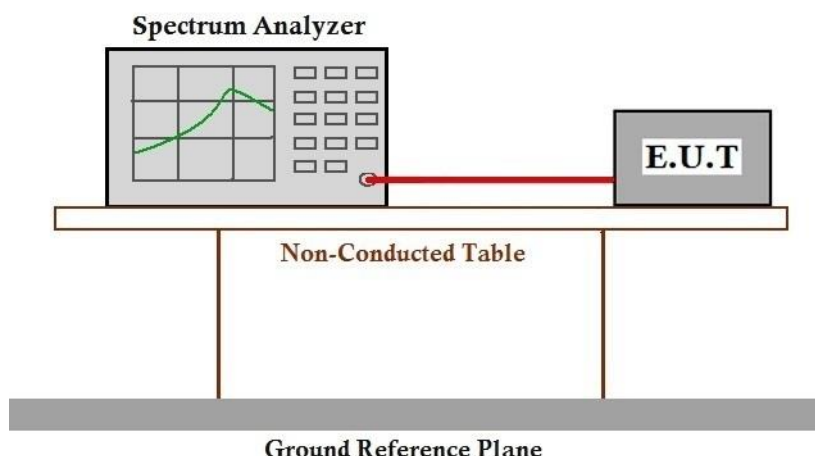
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7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	10	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.8 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
 Test Method: KDB 789033 D02 II G
 Measurement Distance: 3m

Limit:

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

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

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

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

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

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

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

7.8.1 E.U.T. Operation

Operating Environment:



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

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300073605

Page: 33 of 240

Temperature: 20.6 °C Humidity: 56.1 % RH Atmospheric Pressure: 1015 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	10	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	11	Charge + TX mode (U-NII-1)_Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	12	Charge + TX mode (U-NII-3)_Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



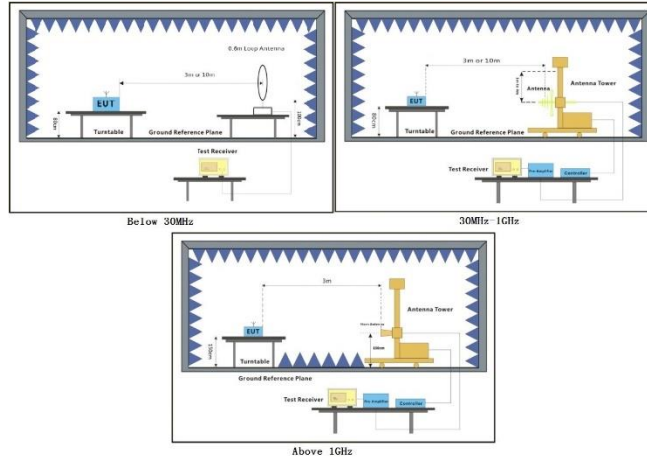
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SZEMC) EMC Laboratory

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7.8.3 Test Setup Diagram

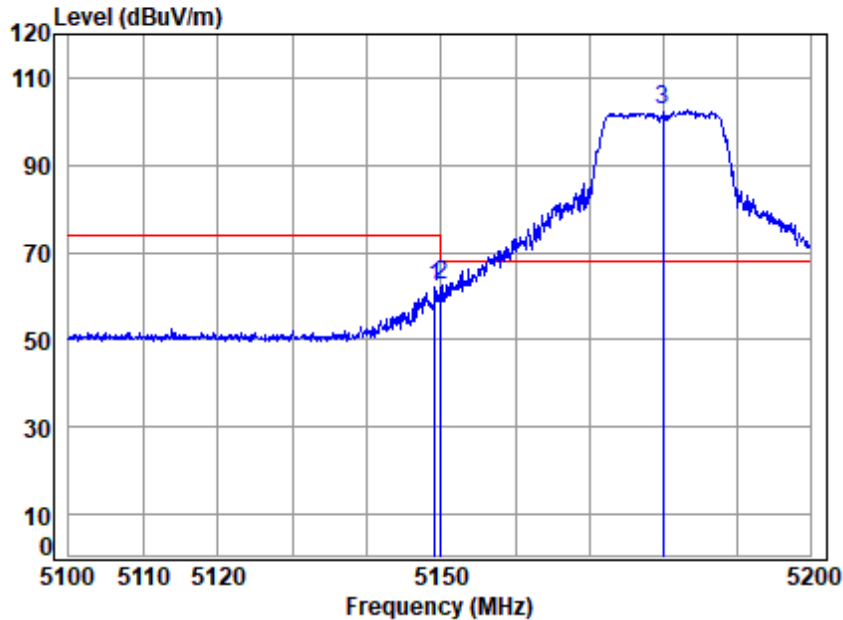


7.8.4 Measurement Procedure and Data

- 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.
- 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.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

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

Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
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	5149.157	7.36	34.00	34.99	55.69	62.06	74.00	-11.94 peak
2	5149.980	7.36	34.00	34.99	56.09	62.46	74.00	-11.54 peak
3 q	5180.000	7.39	34.00	34.99	96.10	102.50	68.20	34.30 peak

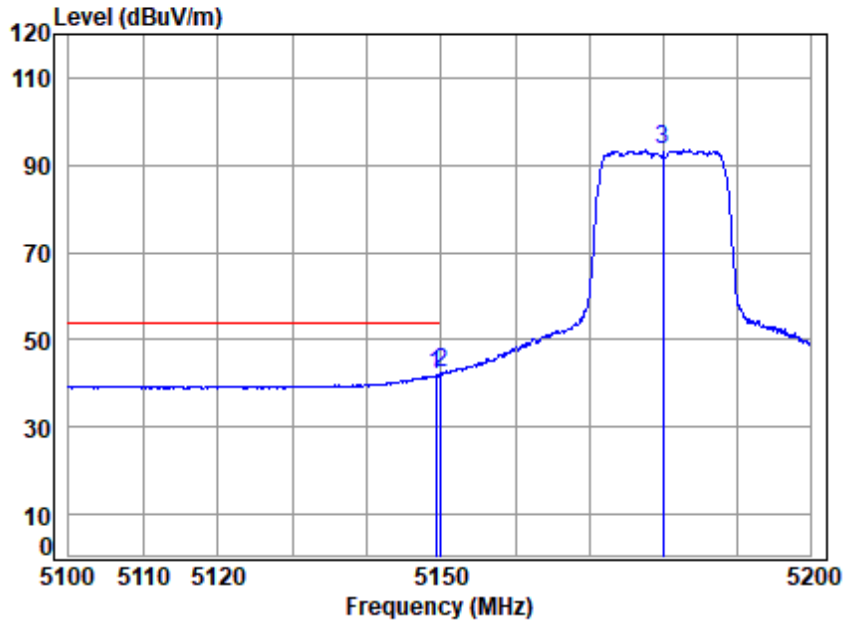


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
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	5149.257	7.36	34.00	34.99	35.43	41.80	54.00	-12.20 Average
2 q	5149.980	7.36	34.00	34.99	36.27	42.64	54.00	-11.36 Average
3	5180.000	7.39	34.00	34.99	86.98	93.38	-----	----- Average

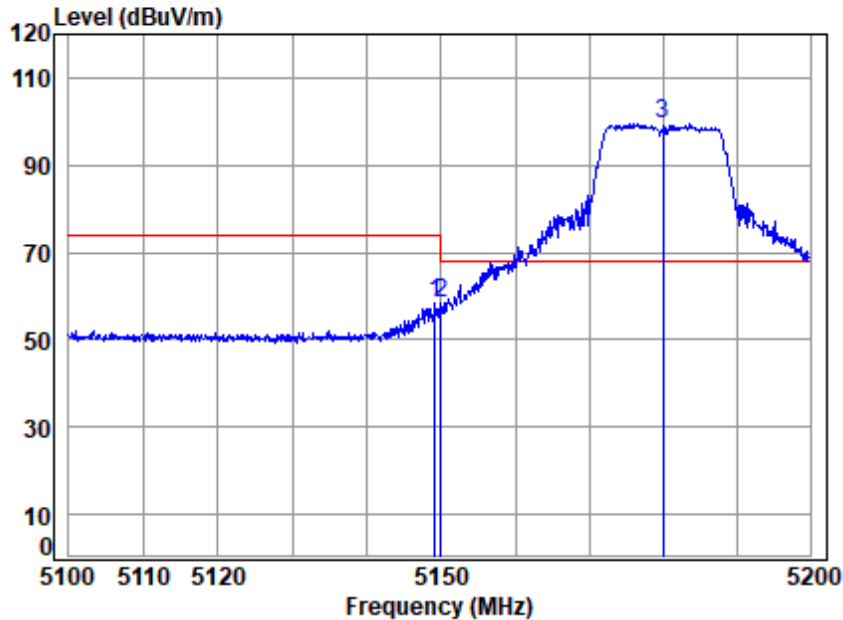


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Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
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	5149.157	7.36	34.00	34.99	52.12	58.49	74.00	-15.51 Peak
2	5149.980	7.36	34.00	34.99	51.84	58.21	74.00	-15.79 Peak
3 q	5180.000	7.39	34.00	34.99	93.19	99.59	68.20	31.39 Peak

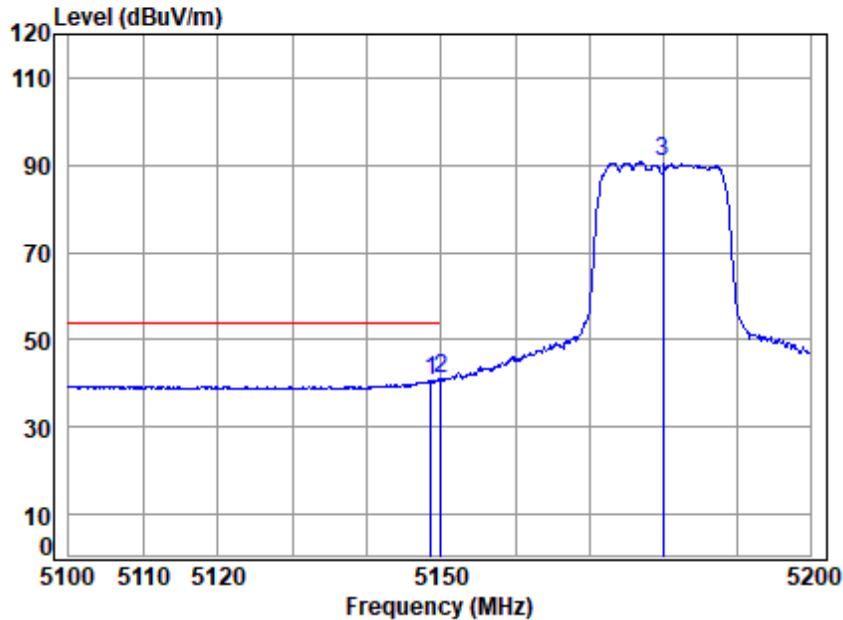


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Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
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	5148.558	7.36	34.00	34.99	34.12	40.49	54.00	-13.51 Average
2 q	5149.980	7.36	34.00	34.99	34.52	40.89	54.00	-13.11 Average
3	5180.000	7.39	34.00	34.99	84.28	90.68	-----	----- Average

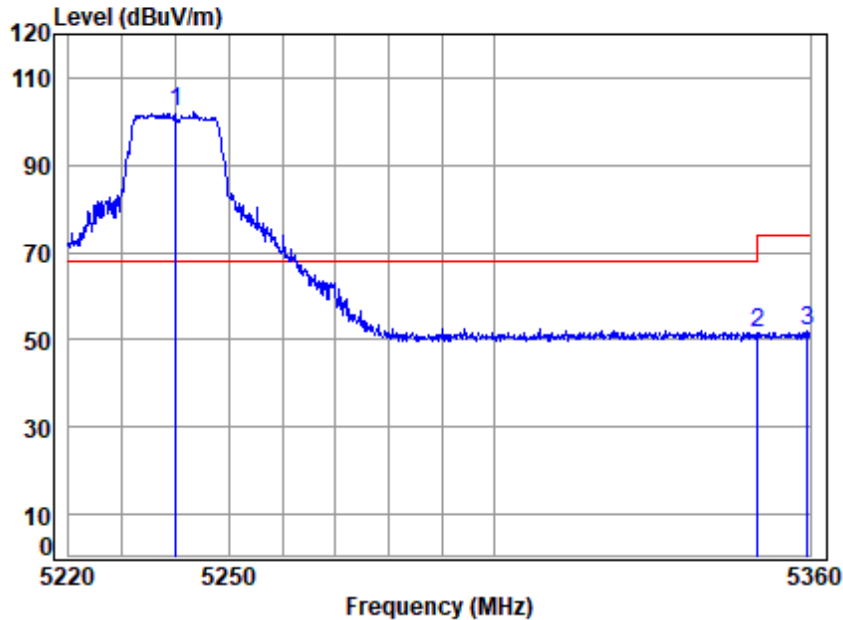


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
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 q 5240.000		7.45	34.00	35.00	95.84	102.29	68.20	34.09	peak
2 5350.020		7.56	34.30	35.00	44.63	51.49	74.00	-22.51	peak
3 5359.433		7.57	34.34	35.00	44.88	51.79	74.00	-22.21	peak

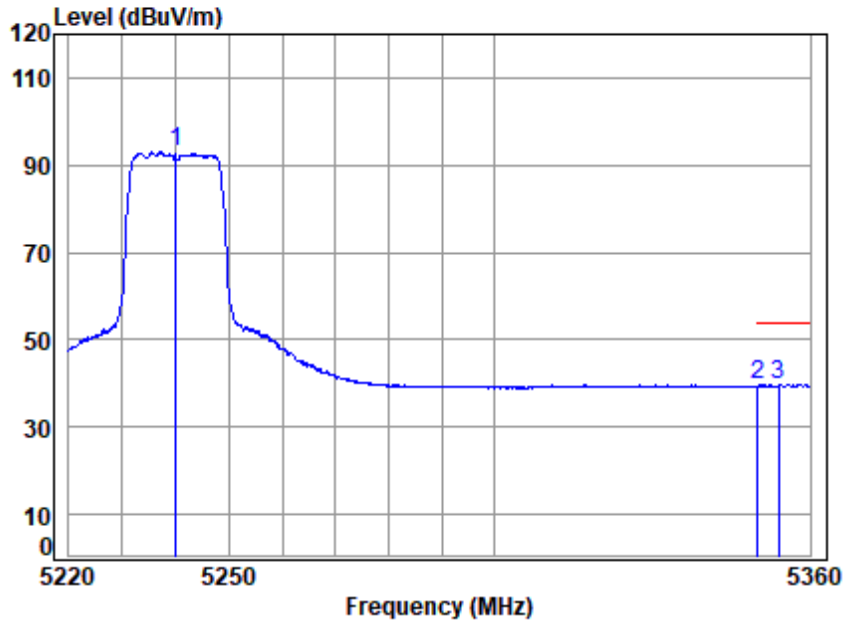


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
Mode : 5240 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	5240.000	7.45	34.00	35.00	86.55	93.00	-----	Average
2	5350.020	7.56	34.30	35.00	32.64	39.50	54.00	-14.50 Average
3 q	5354.045	7.57	34.32	35.00	32.81	39.70	54.00	-14.30 Average

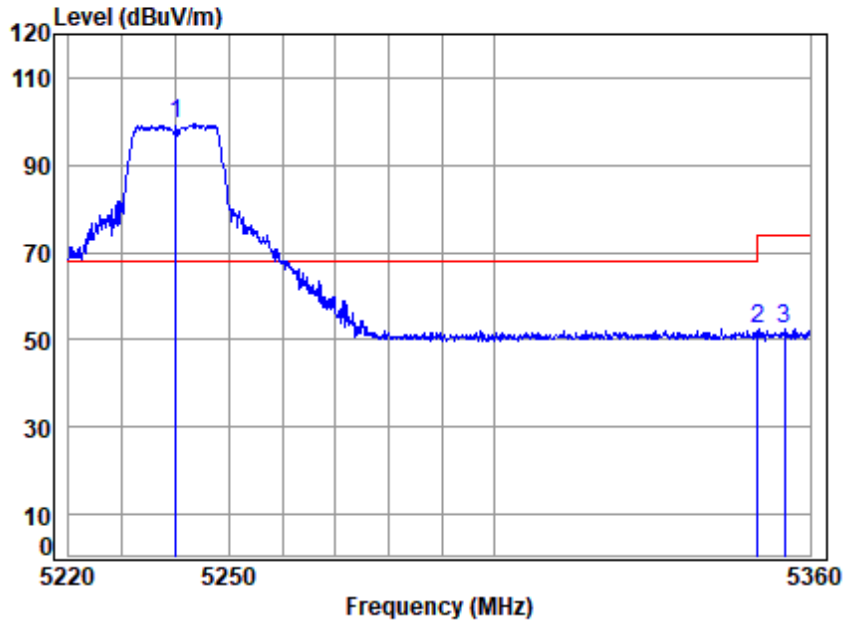


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Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
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 q	5240.000	7.45	34.00	35.00	92.99	99.44	68.20	31.24 Peak
2	5350.020	7.56	34.30	35.00	45.46	52.32	74.00	-21.68 Peak
3	5355.179	7.57	34.32	35.00	45.60	52.49	74.00	-21.51 Peak

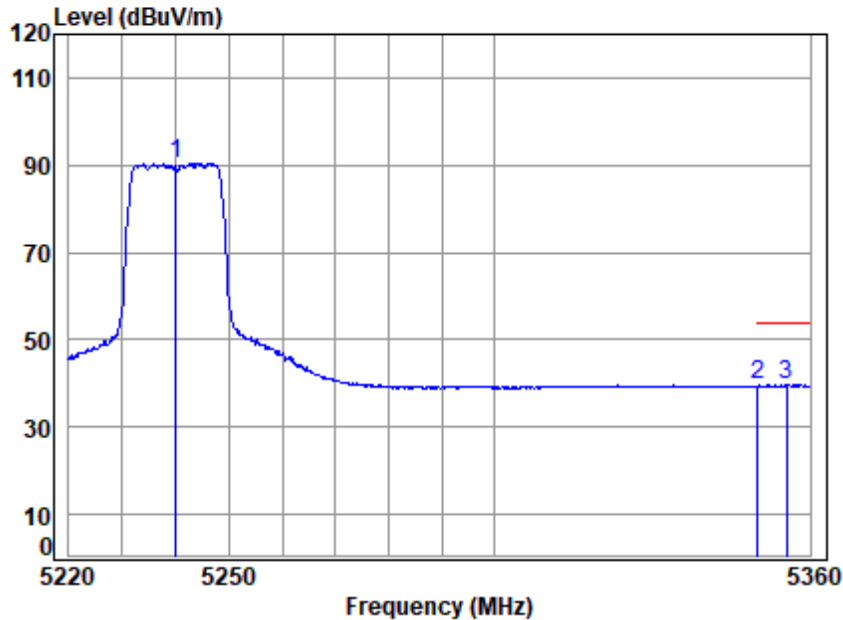


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Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
Mode : 5240 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	5240.000	7.45	34.00	35.00	83.94	90.39	-----	Average
2	5350.020	7.56	34.30	35.00	32.61	39.47	54.00	-14.53 Average
3 q	5355.462	7.57	34.32	35.00	32.73	39.62	54.00	-14.38 Average

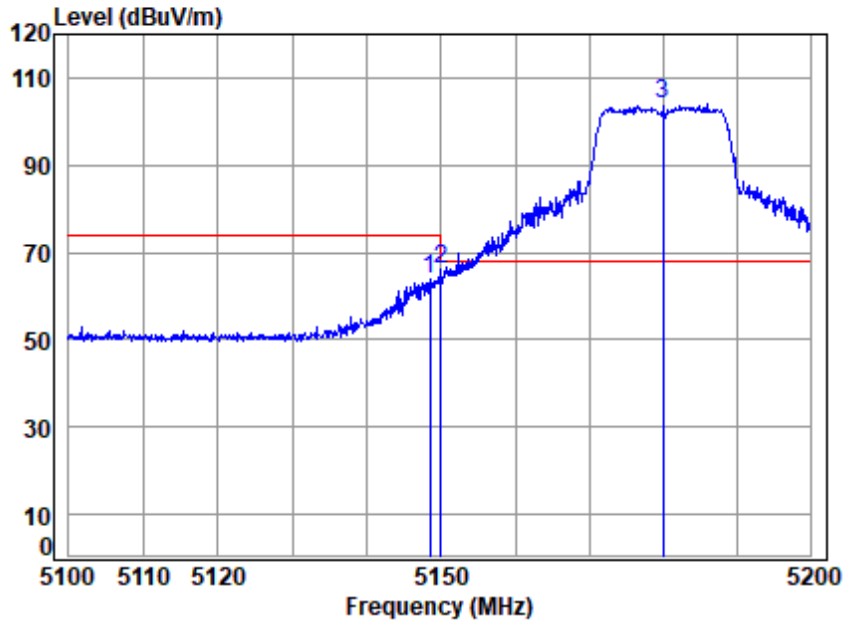


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
Mode : 5180 Band edge
: 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	5148.458	7.36	34.00	34.99	57.44	63.81	74.00	-10.19 peak
2	5149.980	7.36	34.00	34.99	59.86	66.23	74.00	-7.77 peak
3 q	5180.000	7.39	34.00	34.99	97.51	103.91	68.20	35.71 peak

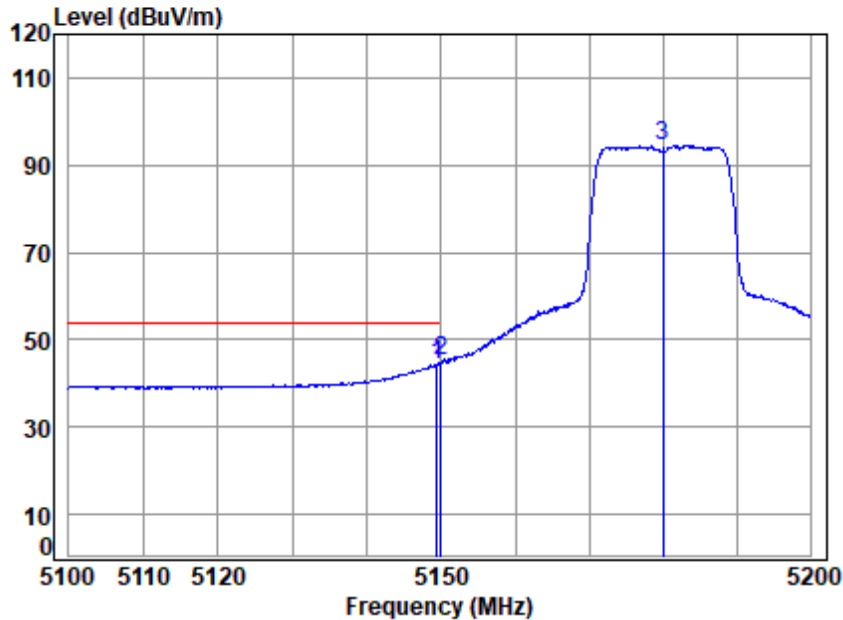


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
Mode : 5180 Band edge
: 5G WIFI 11N20

		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	5149.458	7.36	34.00	34.99	38.04	44.41	54.00	-9.59 Average
2 q	5149.980	7.36	34.00	34.99	38.71	45.08	54.00	-8.92 Average
3	5180.000	7.39	34.00	34.99	88.17	94.57	-----	----- Average

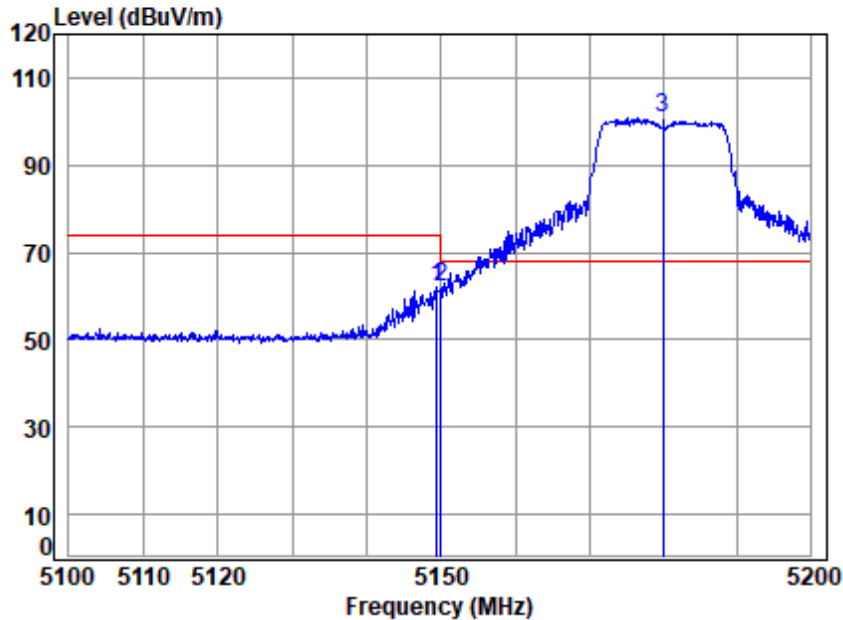


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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
Mode : 5180 Band edge
: 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	5149.458	7.36	34.00	34.99	55.85	62.22	74.00	-11.78 Peak
2	5149.980	7.36	34.00	34.99	55.57	61.94	74.00	-12.06 Peak
3 q	5180.000	7.39	34.00	34.99	94.38	100.78	68.20	32.58 Peak

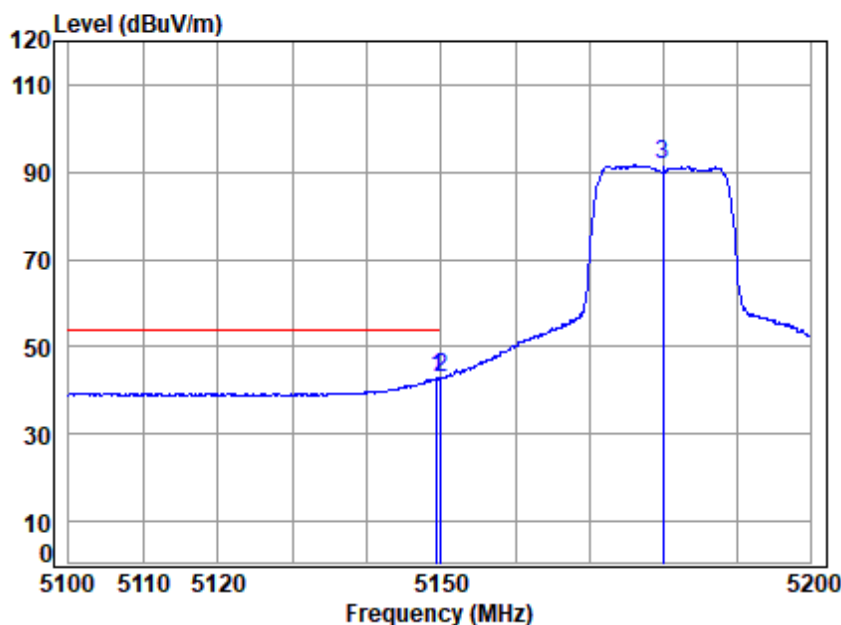


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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
Mode : 5180 Band edge
: 5G WIFI 11N20

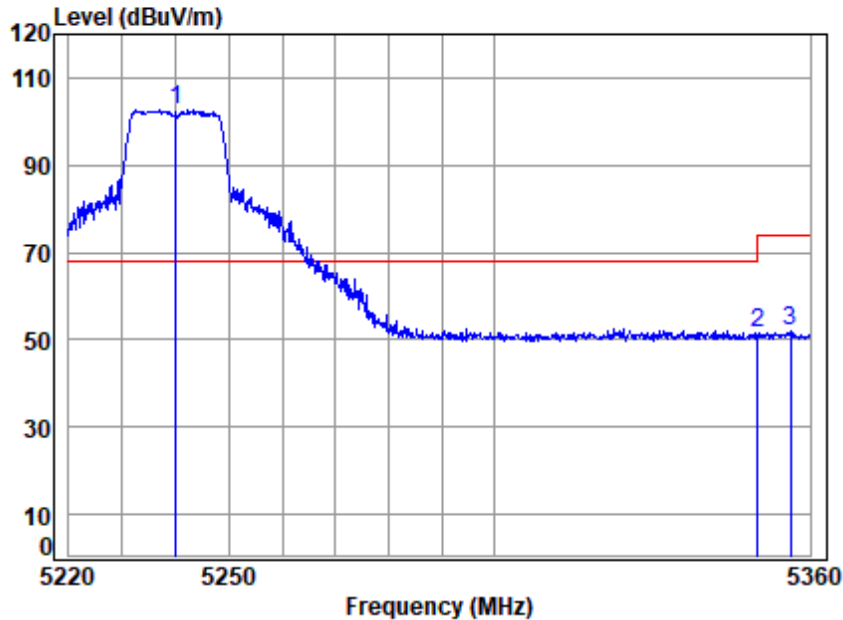
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.458	7.36	34.00	34.99	36.32	42.69	54.00	-11.31	Average
2 q	5149.980	7.36	34.00	34.99	36.64	43.01	54.00	-10.99	Average
3	5180.000	7.39	34.00	34.99	85.17	91.57	-----	-----	Average



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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
Mode : 5240 Band edge
: 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 q	5240.000	7.45	34.00	35.00	96.30	102.75	68.20	34.55 peak
2	5350.020	7.56	34.30	35.00	44.51	51.37	74.00	-22.63 peak
3	5356.171	7.57	34.32	35.00	44.92	51.81	74.00	-22.19 peak

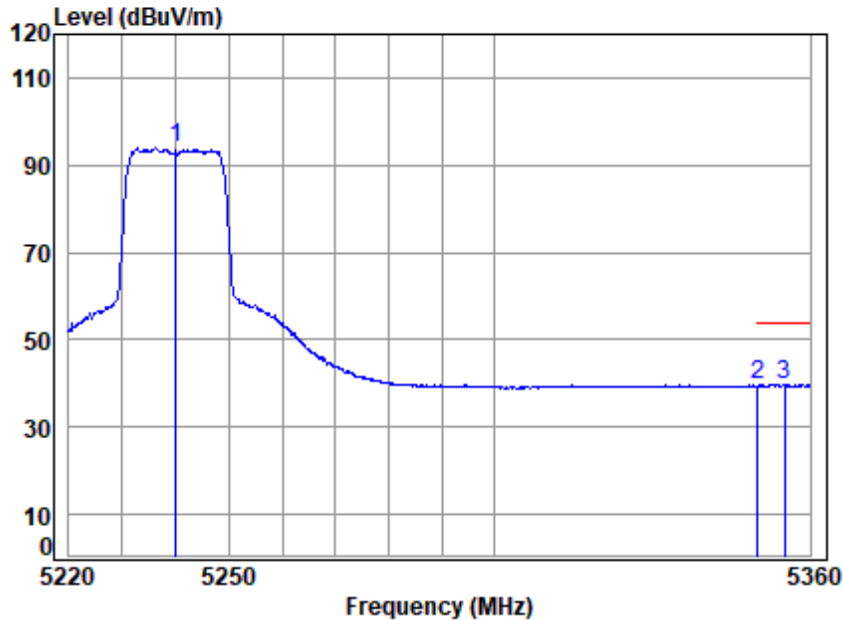


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
Mode : 5240 Band edge
: 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	5240.000	7.45	34.00	35.00	87.66	94.11	-----	----- Average
2	5350.020	7.56	34.30	35.00	32.62	39.48	54.00	-14.52 Average
3 q	5355.037	7.57	34.32	35.00	32.82	39.71	54.00	-14.29 Average

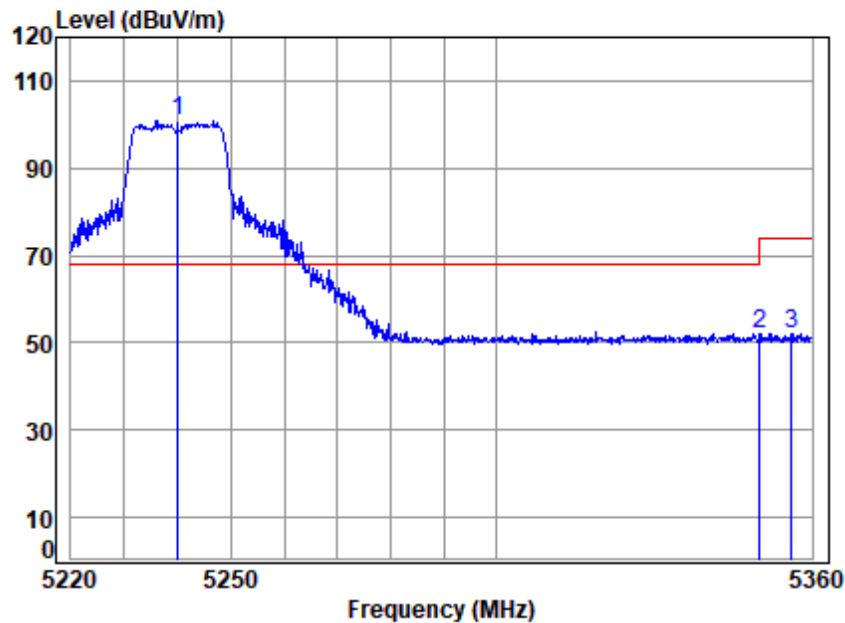


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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
Mode : 5240 Band edge
: 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 q 5240.000		7.45	34.00	35.00	94.48	100.93	68.20	32.73 Peak
2 5350.020		7.56	34.30	35.00	45.24	52.10	74.00	-21.90 Peak
3 5356.029		7.57	34.32	35.00	45.21	52.10	74.00	-21.90 Peak

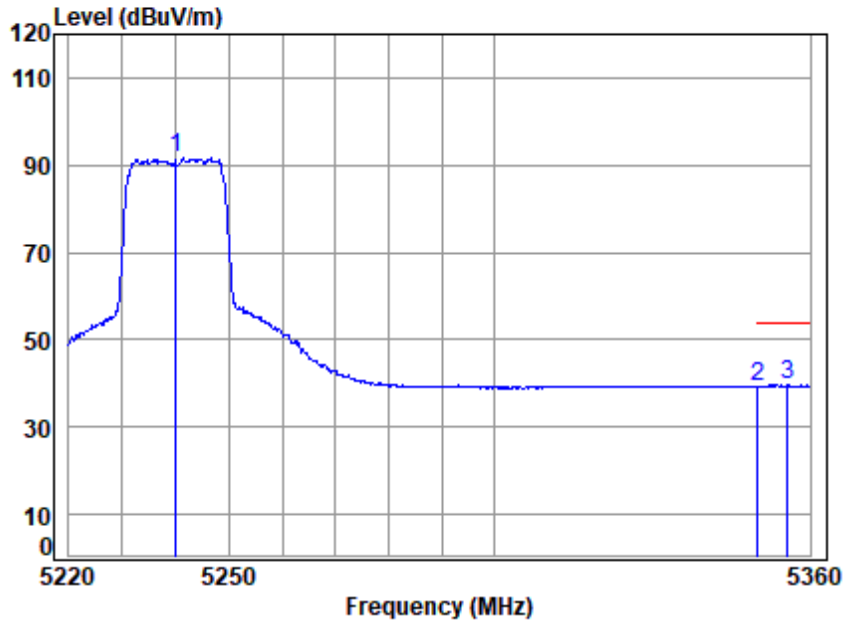


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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
Mode : 5240 Band edge
: 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	5240.000	7.45	34.00	35.00	85.14	91.59	-----	----- Average
2	5350.020	7.56	34.30	35.00	32.55	39.41	54.00	-14.59 Average
3 q	5355.604	7.57	34.32	35.00	32.81	39.70	54.00	-14.30 Average

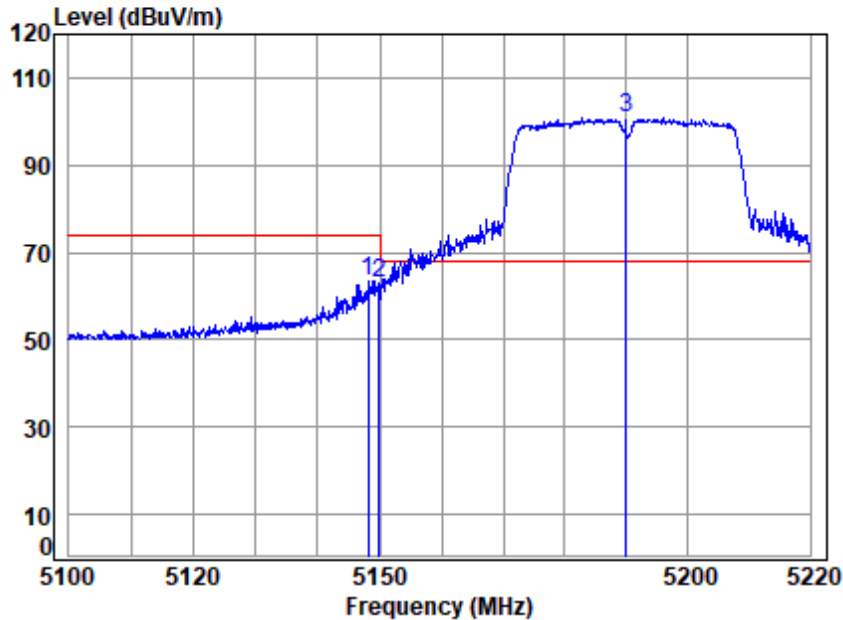


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
Mode : 5190 Band edge
: 5G WIFI 11N40

		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	5148.144	7.36	34.00	34.99	57.23	63.60	74.00	-10.40 peak
2	5149.980	7.36	34.00	34.99	56.65	63.02	74.00	-10.98 peak
3 q	5190.000	7.40	34.00	34.99	94.45	100.86	68.20	32.66 peak

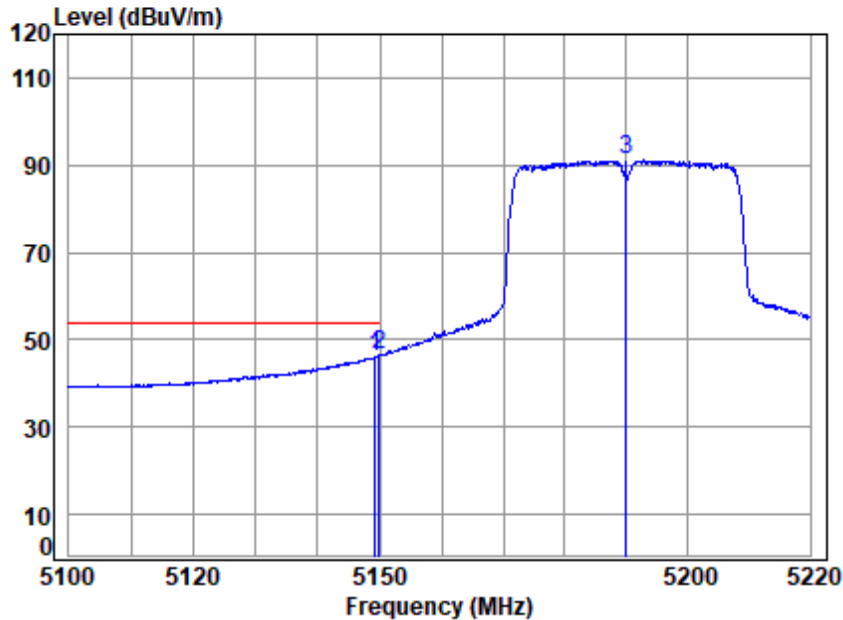


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
Mode : 5190 Band edge
: 5G WIFI 11N40

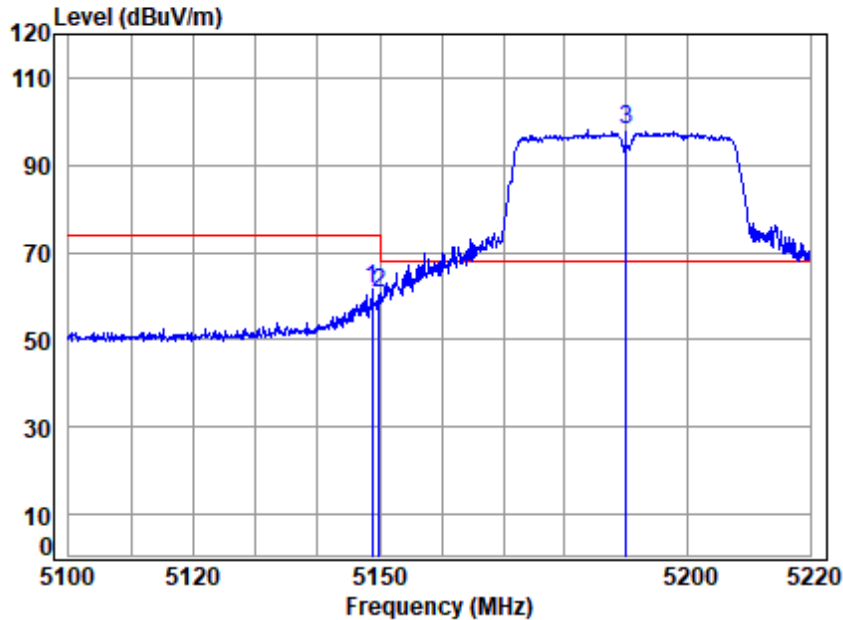
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.342	7.36	34.00	34.99	39.62	45.99	54.00	-8.01	Average
2 q	5149.980	7.36	34.00	34.99	40.23	46.60	54.00	-7.40	Average
3	5190.000	7.40	34.00	34.99	84.85	91.26	-----	-----	Average



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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
Mode : 5190 Band edge
: 5G WIFI 11N40

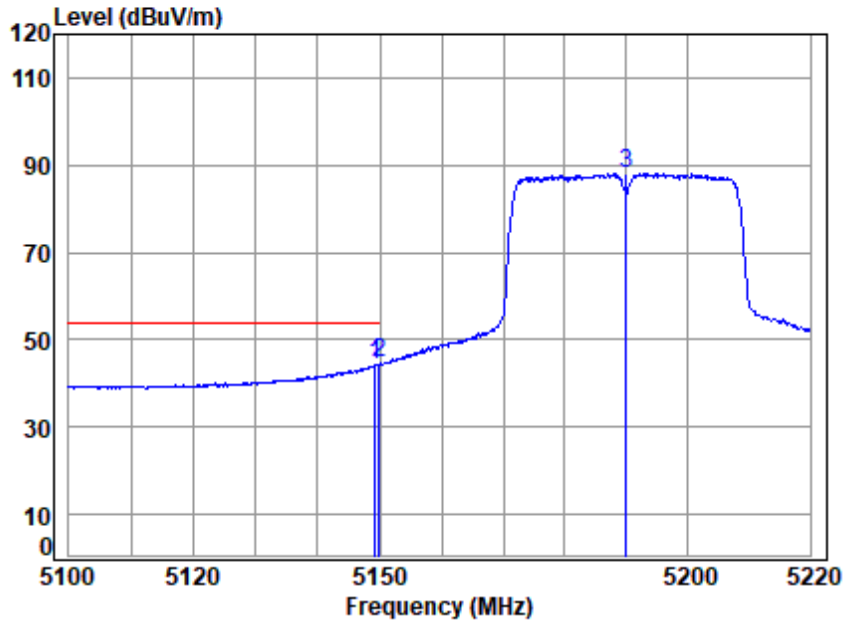
		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.743	7.36	34.00	34.99	55.20	61.57	74.00	-12.43 Peak
2	5149.980	7.36	34.00	34.99	54.40	60.77	74.00	-13.23 Peak
3 q	5190.000	7.40	34.00	34.99	91.77	98.18	68.20	29.98 Peak



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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
Mode : 5190 Band edge
: 5G WIFI 11N40

		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	5149.342	7.36	34.00	34.99	37.91	44.28	54.00	-9.72 Average
2 q	5149.980	7.36	34.00	34.99	38.24	44.61	54.00	-9.39 Average
3	5190.000	7.40	34.00	34.99	81.69	88.10	-----	----- Average

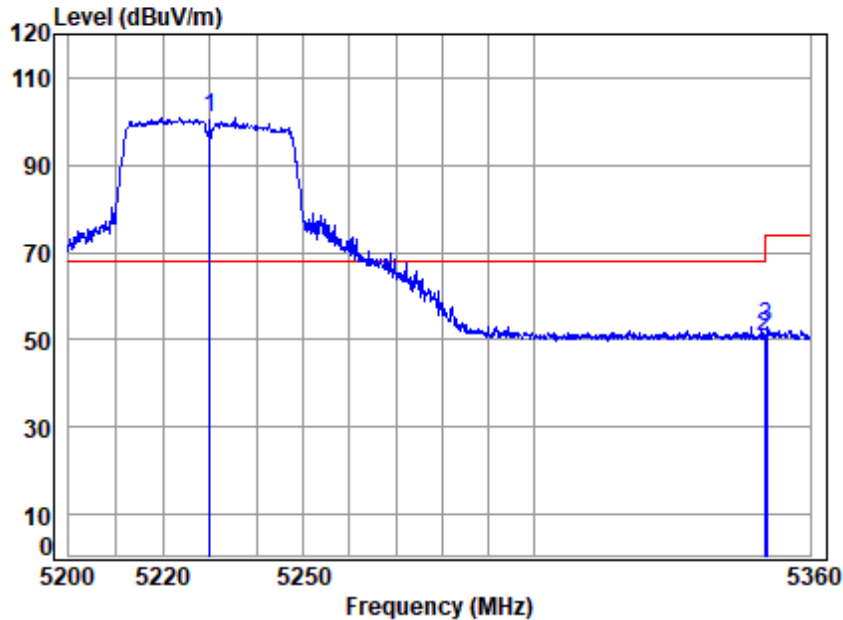


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
Mode : 5230 Band edge
: 5G WIFI 11N40

		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	5230.000	7.44	34.00	34.99	94.55	101.00	68.20	32.80	peak
2	5350.020	7.56	34.30	35.00	43.95	50.81	74.00	-23.19	peak
3	5350.587	7.56	34.30	35.00	45.94	52.80	74.00	-21.20	peak

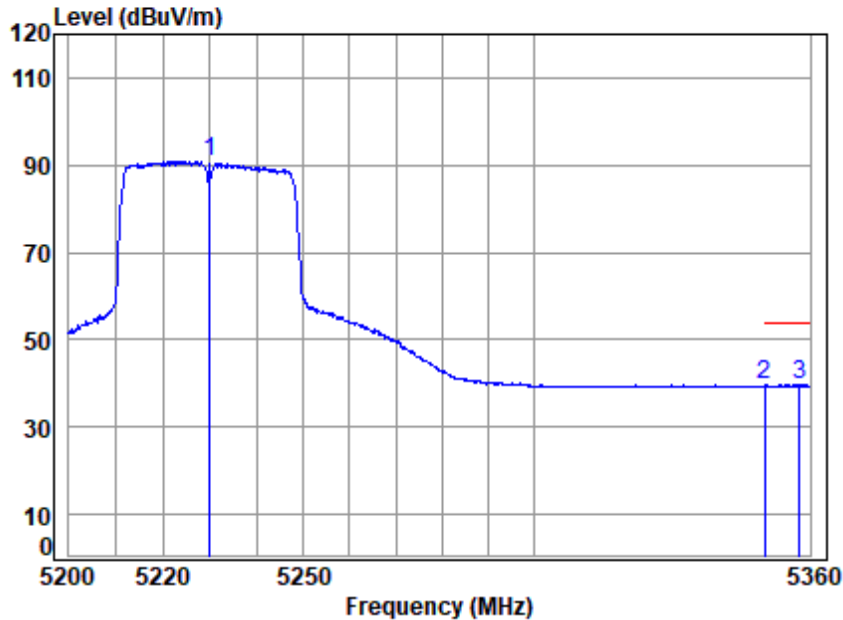


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
Mode : 5230 Band edge
: 5G WIFI 11N40

		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	7.44	34.00	34.99	84.52	90.97	-----	----- Average
2	5350.020	7.56	34.30	35.00	32.68	39.54	54.00	-14.46 Average
3 q	5357.727	7.57	34.33	35.00	32.67	39.57	54.00	-14.43 Average

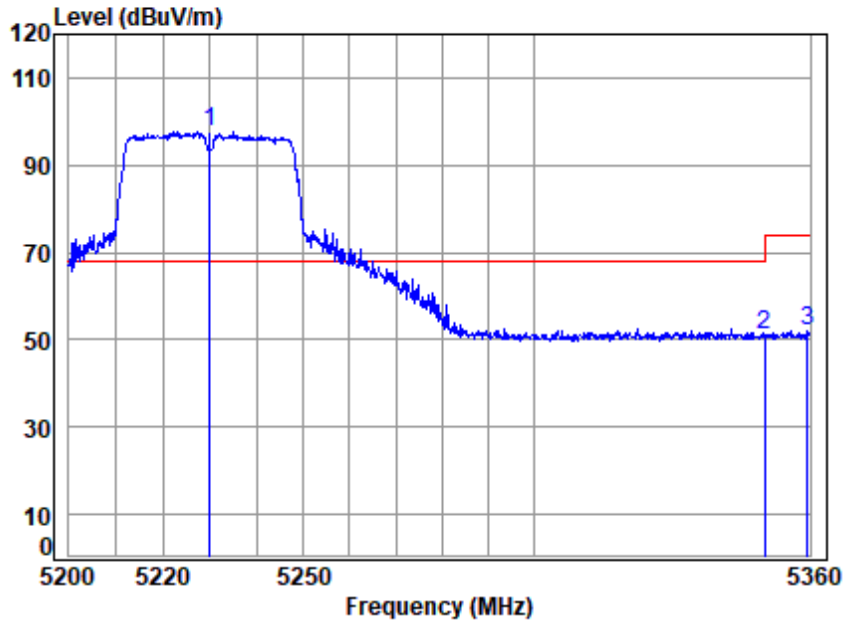


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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
Mode : 5230 Band edge
: 5G WIFI 11N40

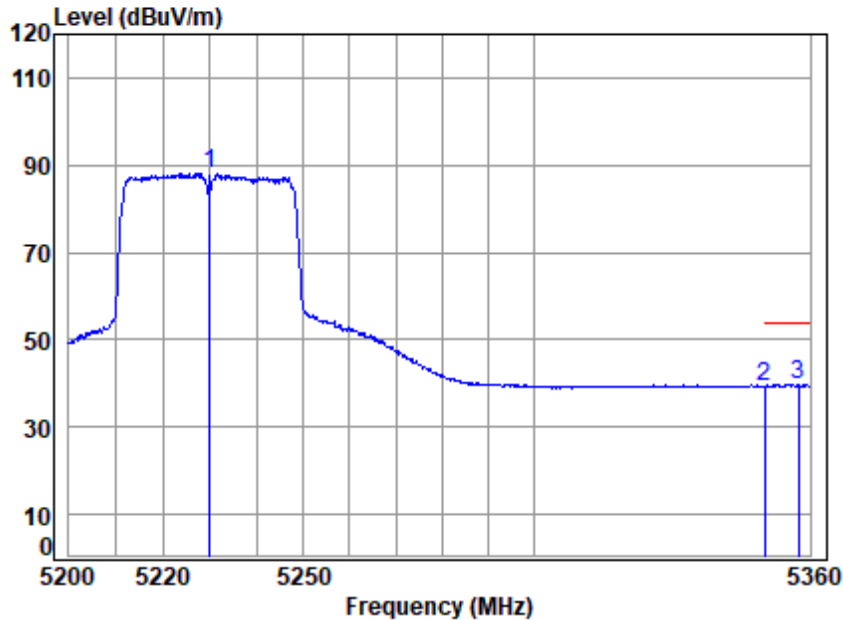
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	5230.000	7.44	34.00	34.99	91.11	97.56	68.20	29.36	Peak
2	5350.020	7.56	34.30	35.00	44.10	50.96	74.00	-23.04	Peak
3	5359.350	7.57	34.34	35.00	45.15	52.06	74.00	-21.94	Peak



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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
Mode : 5230 Band edge
: 5G WIFI 11N40

		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	7.44	34.00	34.99	81.74	88.19	-----	----- Average
2	5350.020	7.56	34.30	35.00	32.50	39.36	54.00	-14.64 Average
3 q	5357.402	7.57	34.33	35.00	32.87	39.77	54.00	-14.23 Average



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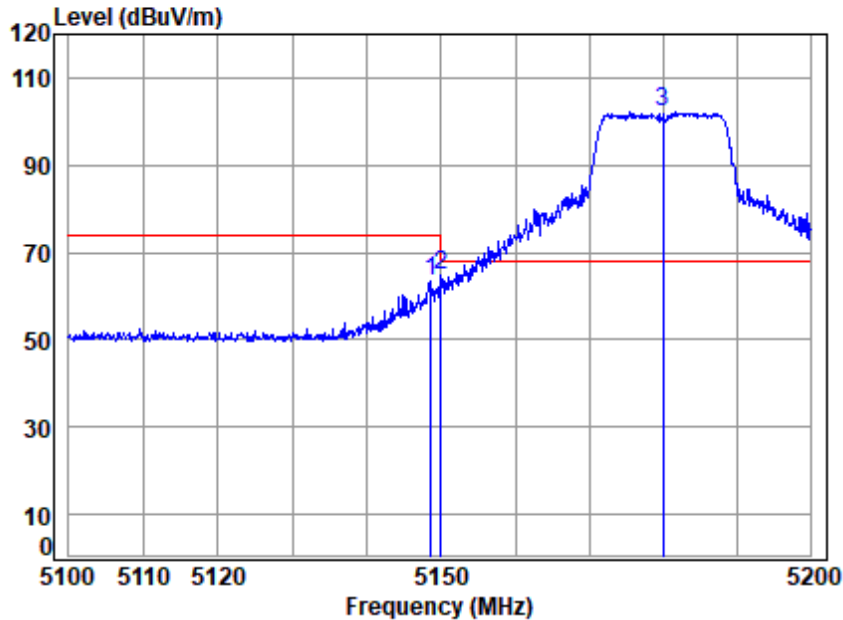
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
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	5148.657	7.36	34.00	34.99	57.07	63.44	74.00	-10.56	peak
2	5149.980	7.36	34.00	34.99	58.40	64.77	74.00	-9.23	peak
3 q	5180.000	7.39	34.00	34.99	95.68	102.08	68.20	33.88	peak

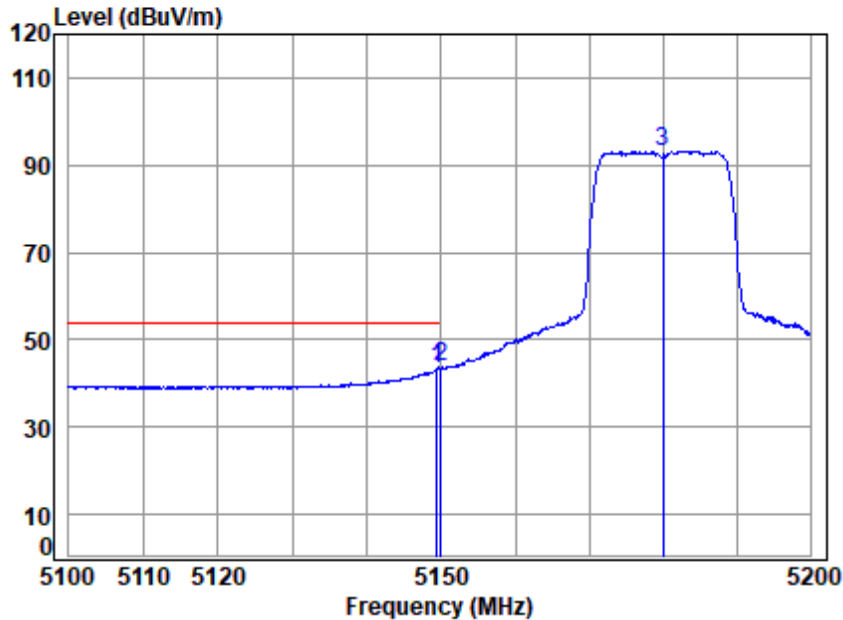


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
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	5149.357	7.36	34.00	34.99	36.95	43.32	54.00	-10.68 Average
2 q	5149.980	7.36	34.00	34.99	37.30	43.67	54.00	-10.33 Average
3	5180.000	7.39	34.00	34.99	86.83	93.23	-----	----- Average

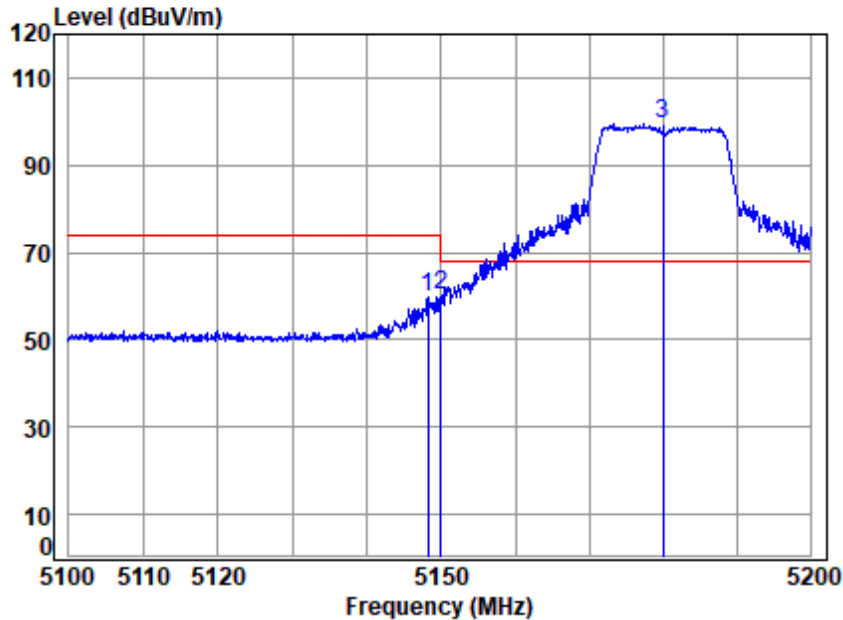


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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
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	5148.158	7.36	34.00	34.99	53.60	59.97	74.00	-14.03	Peak
2	5149.980	7.36	34.00	34.99	53.67	60.04	74.00	-13.96	Peak
3 q	5180.000	7.39	34.00	34.99	92.92	99.32	68.20	31.12	Peak

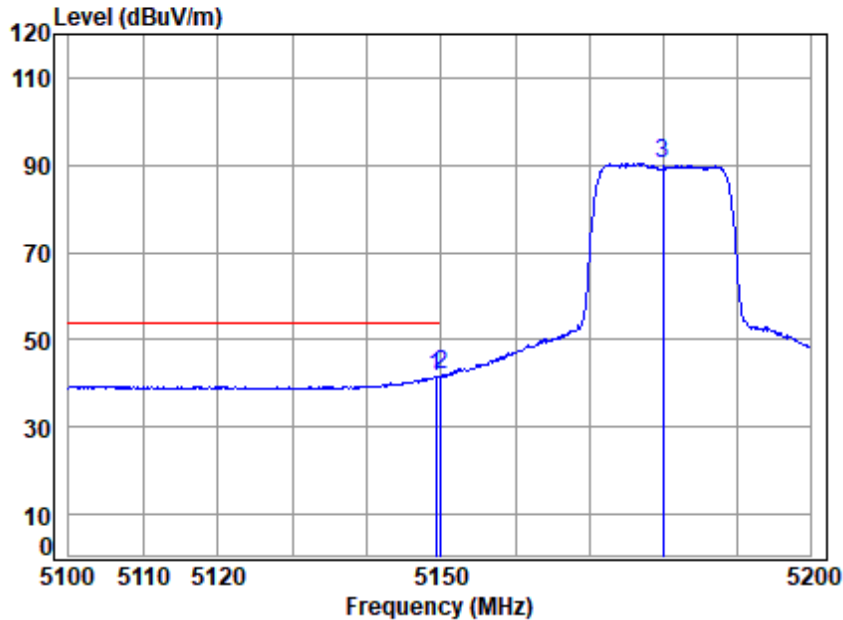


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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
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	5149.257	7.36	34.00	34.99	35.20	41.57	54.00	-12.43	Average
2 q	5149.980	7.36	34.00	34.99	35.46	41.83	54.00	-12.17	Average
3	5180.000	7.39	34.00	34.99	84.06	90.46	-----	-----	Average

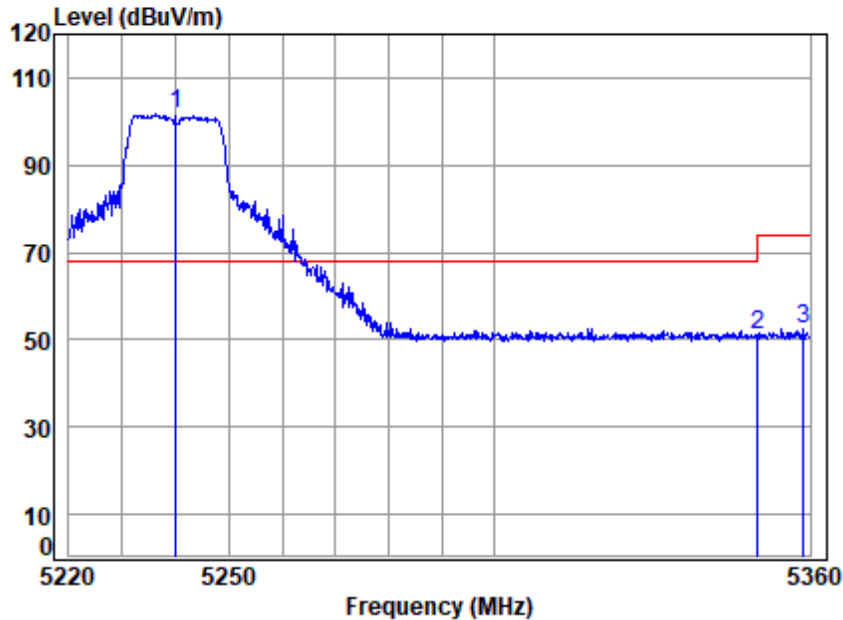


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
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 q 5240.000		7.45	34.00	35.00	95.51	101.96	68.20	33.76 peak
2 5350.020		7.56	34.30	35.00	44.26	51.12	74.00	-22.88 peak
3 5358.724		7.57	34.34	35.00	45.76	52.67	74.00	-21.33 peak

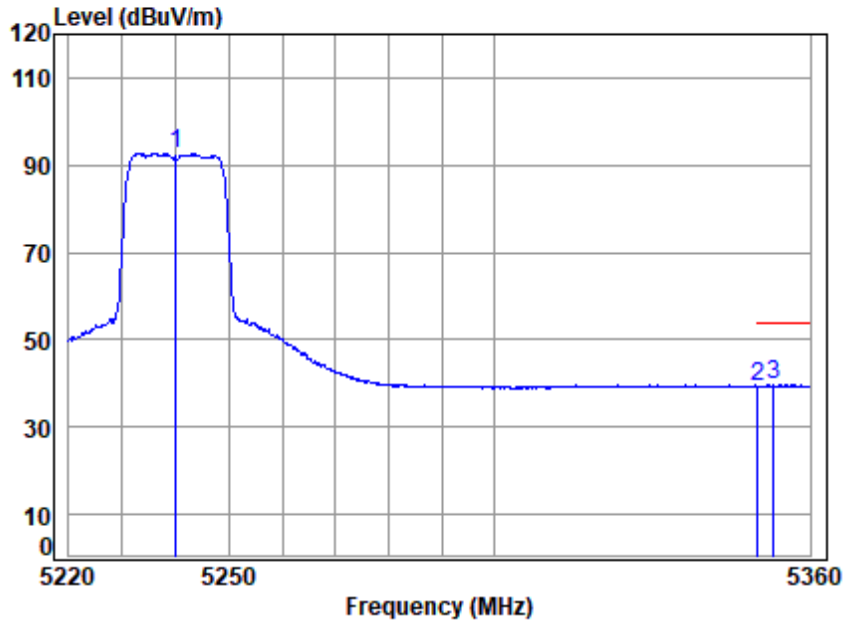


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
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	7.45	34.00	35.00	86.36	92.81	-----	----- Average
2	5350.020	7.56	34.30	35.00	32.56	39.42	54.00	-14.58 Average
3 q	5353.053	7.57	34.31	35.00	32.73	39.61	54.00	-14.39 Average

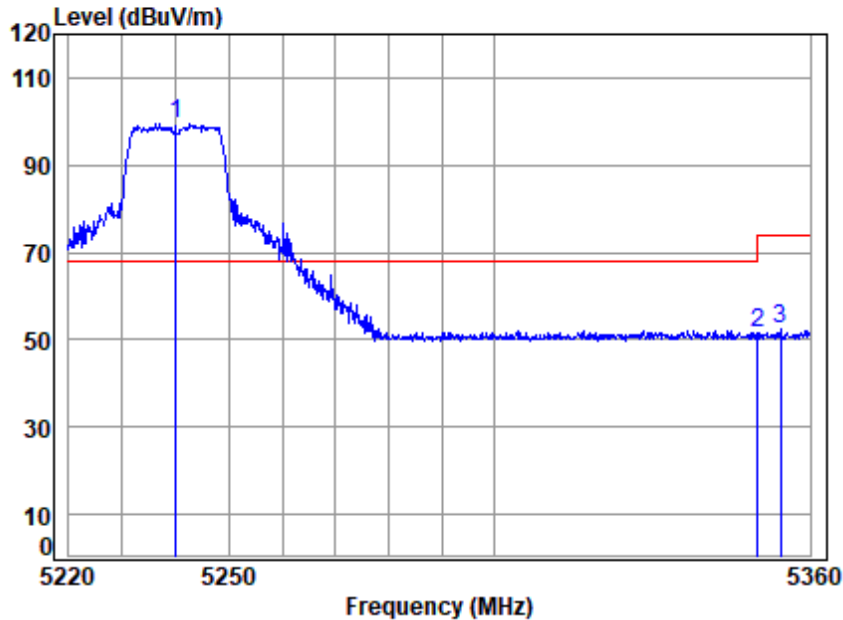


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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
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 q 5240.000		7.45	34.00	35.00	92.82	99.27	68.20	31.07 Peak
2 5350.020		7.56	34.30	35.00	44.64	51.50	74.00	-22.50 Peak
3 5354.329		7.57	34.32	35.00	45.36	52.25	74.00	-21.75 Peak

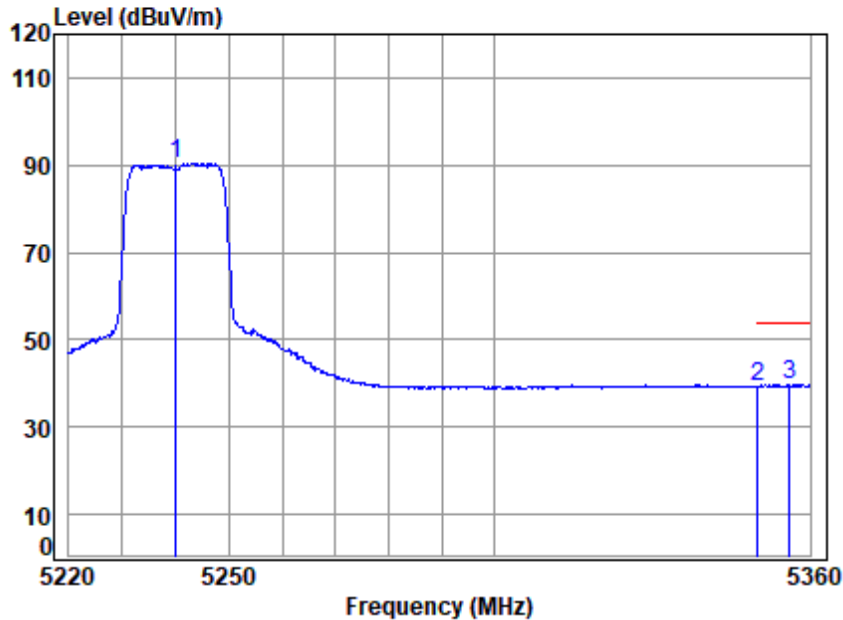


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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
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	7.45	34.00	35.00	84.06	90.51	-----	----- Average
2	5350.020	7.56	34.30	35.00	32.56	39.42	54.00	-14.58 Average
3 q	5356.029	7.57	34.32	35.00	32.74	39.63	54.00	-14.37 Average

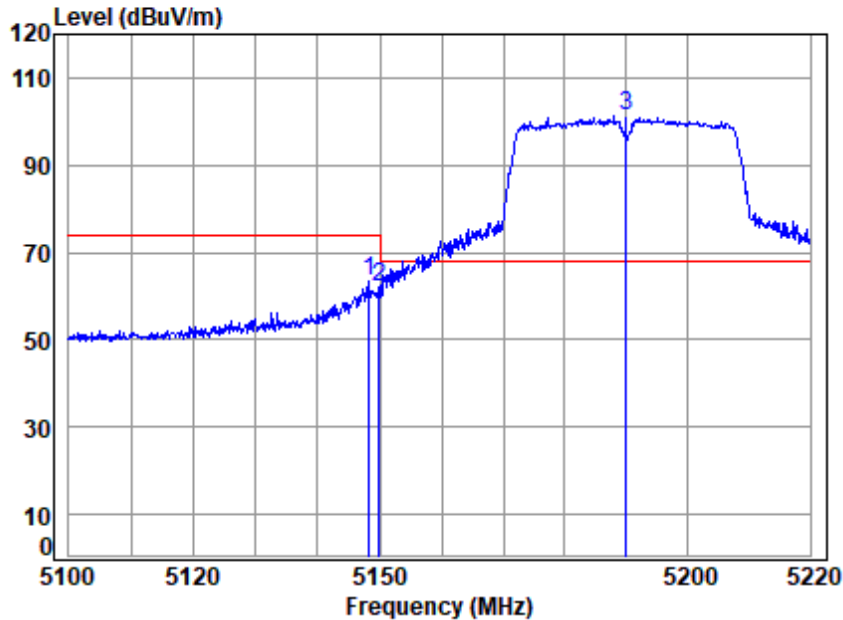


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

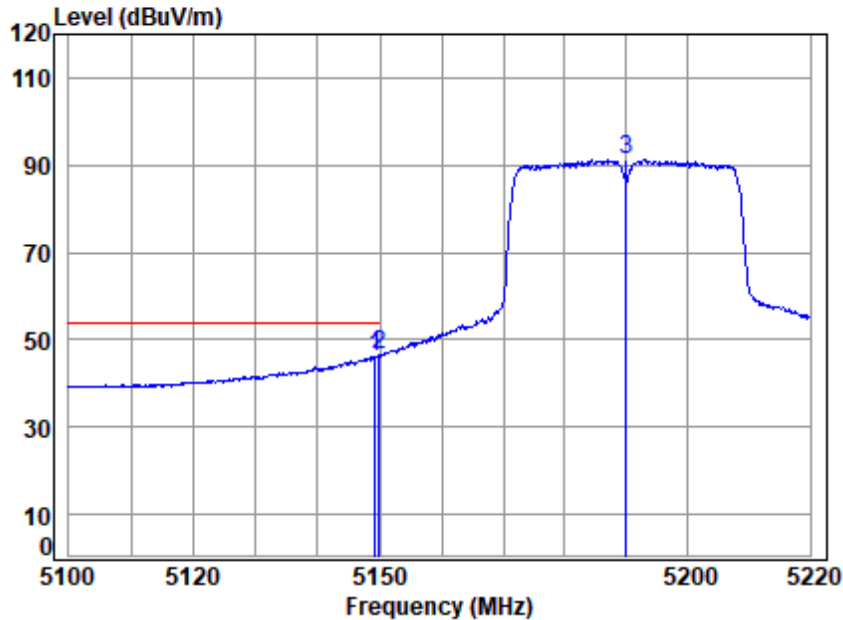
		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.264	7.36	34.00	34.99	56.90	63.27	74.00	-10.73 peak
2	5149.980	7.36	34.00	34.99	55.76	62.13	74.00	-11.87 peak
3 q	5190.000	7.40	34.00	34.99	94.76	101.17	68.20	32.97 peak



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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
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	5149.342	7.36	34.00	34.99	39.84	46.21	54.00	-7.79	Average
2 q	5149.980	7.36	34.00	34.99	40.12	46.49	54.00	-7.51	Average
3	5190.000	7.40	34.00	34.99	84.77	91.18	-----	-----	Average

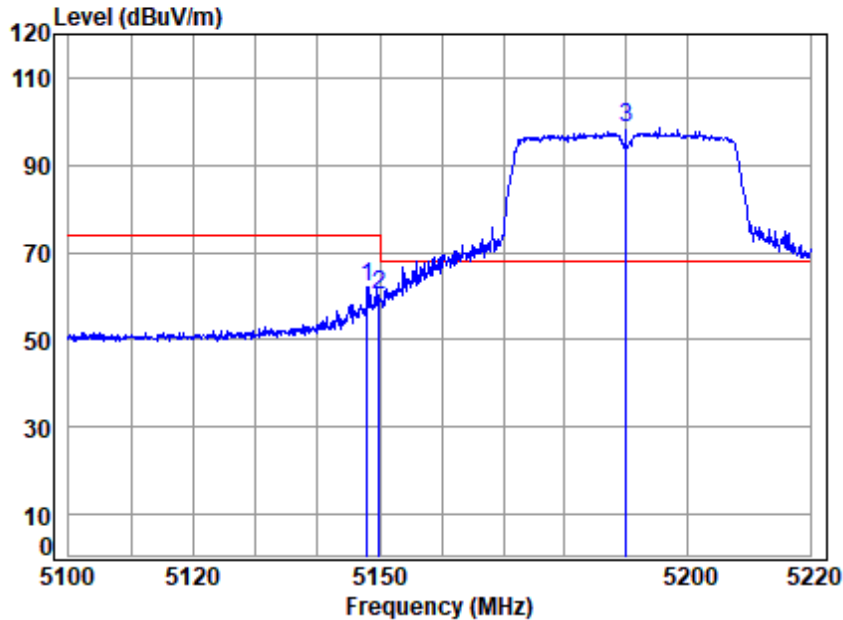


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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
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	5148.024	7.36	34.00	34.99	55.73	62.10	74.00	-11.90 Peak
2	5149.980	7.36	34.00	34.99	53.78	60.15	74.00	-13.85 Peak
3 q	5190.000	7.40	34.00	34.99	91.97	98.38	68.20	30.18 Peak

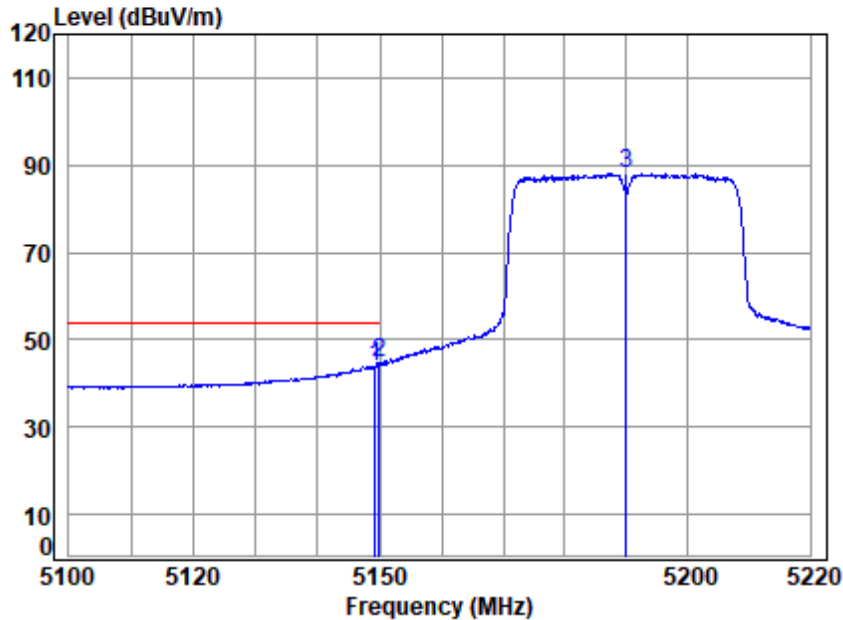


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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

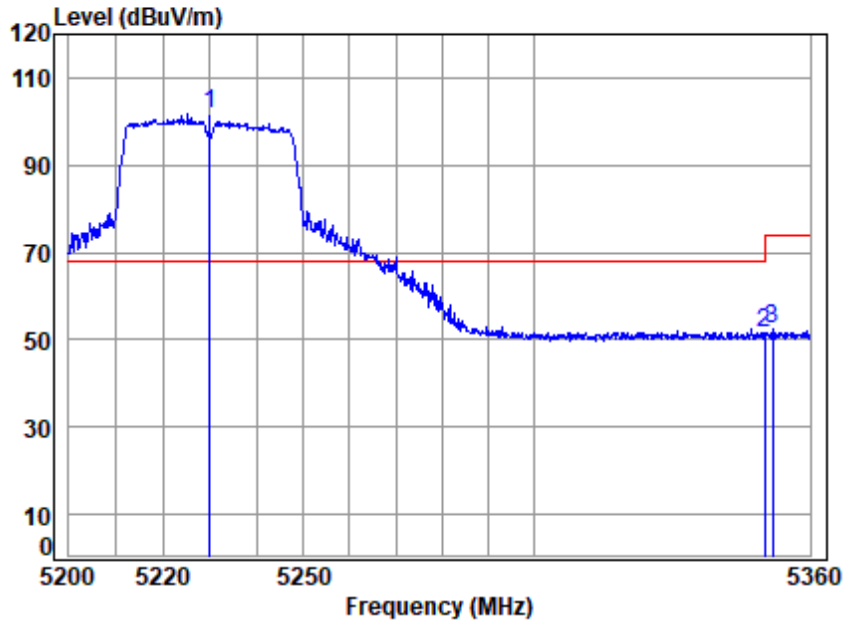
		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.222	7.36	34.00	34.99	37.62	43.99	54.00	-10.01 Average
2 q	5149.980	7.36	34.00	34.99	38.13	44.50	54.00	-9.50 Average
3	5190.000	7.40	34.00	34.99	81.61	88.02	-----	----- Average



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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
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 q 5230.000		7.44	34.00	34.99	95.40	101.85	68.20	33.65 peak
2 5350.020		7.56	34.30	35.00	44.63	51.49	74.00	-22.51 peak
3 5351.884		7.56	34.31	35.00	45.41	52.28	74.00	-21.72 peak

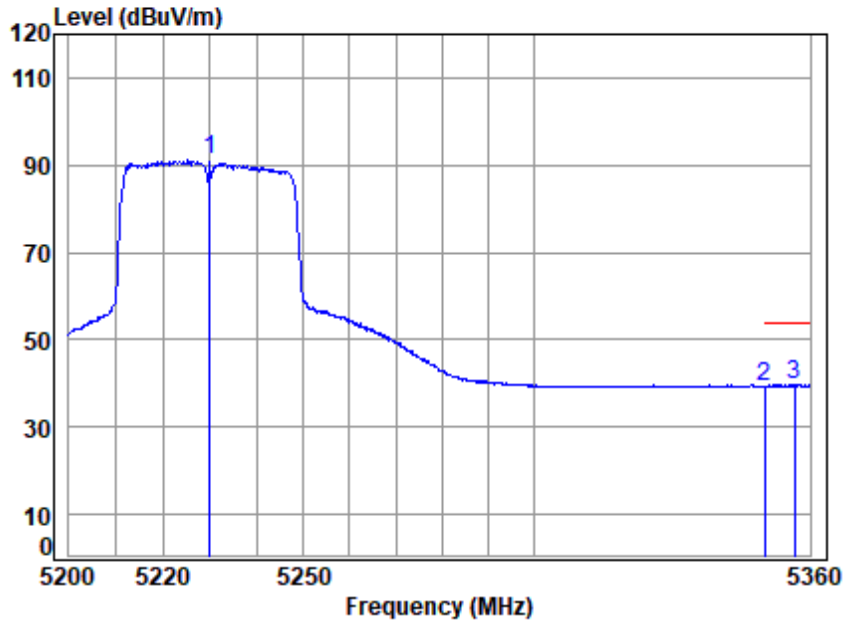


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
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	7.44	34.00	34.99	84.63	91.08	-----	-----	Average
2	5350.020	7.56	34.30	35.00	32.50	39.36	54.00	-14.64	Average
3 q	5356.590	7.57	34.33	35.00	32.69	39.59	54.00	-14.41	Average



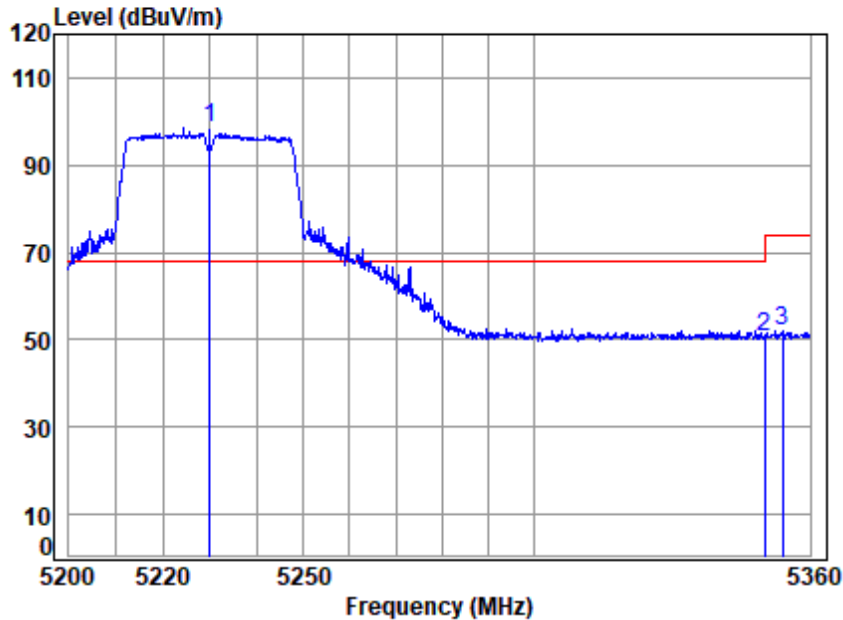
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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
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 q 5230.000		7.44	34.00	34.99	92.08	98.53	68.20	30.33 Peak
2 5350.020		7.56	34.30	35.00	43.78	50.64	74.00	-23.36 Peak
3 5353.993		7.57	34.32	35.00	45.06	51.95	74.00	-22.05 Peak

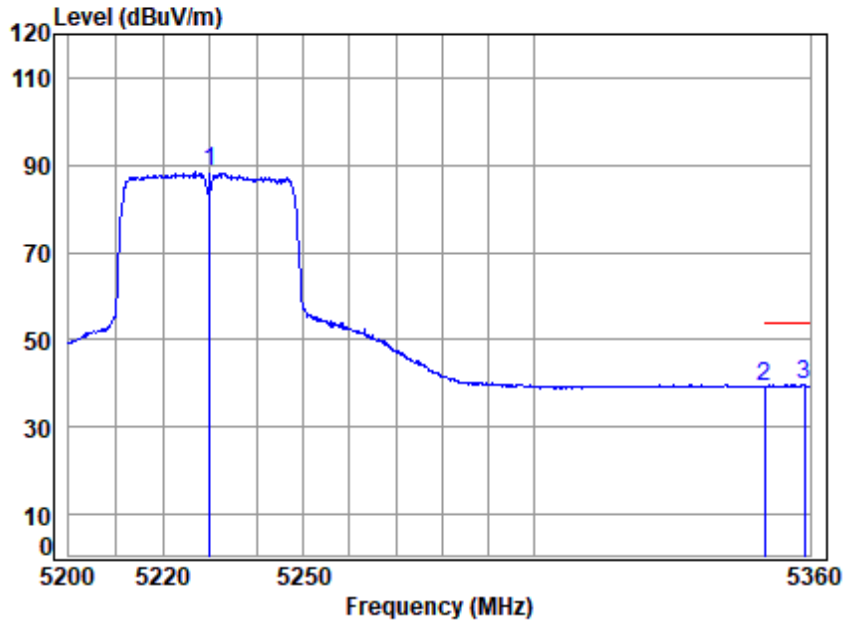


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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
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	7.44	34.00	34.99	81.85	88.30	-----	-----	Average
2	5350.020	7.56	34.30	35.00	32.59	39.45	54.00	-14.55	Average
3 q	5358.701	7.57	34.33	35.00	32.76	39.66	54.00	-14.34	Average

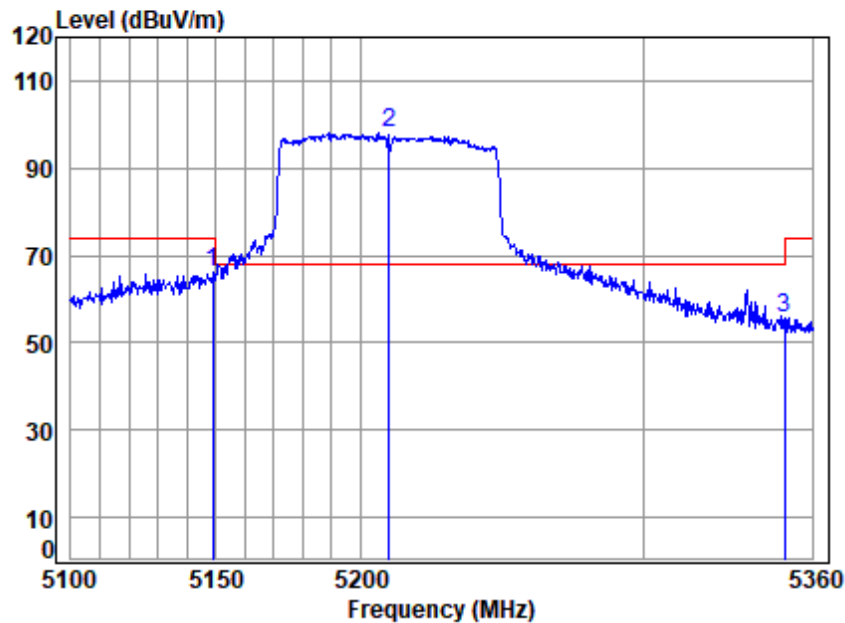


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle

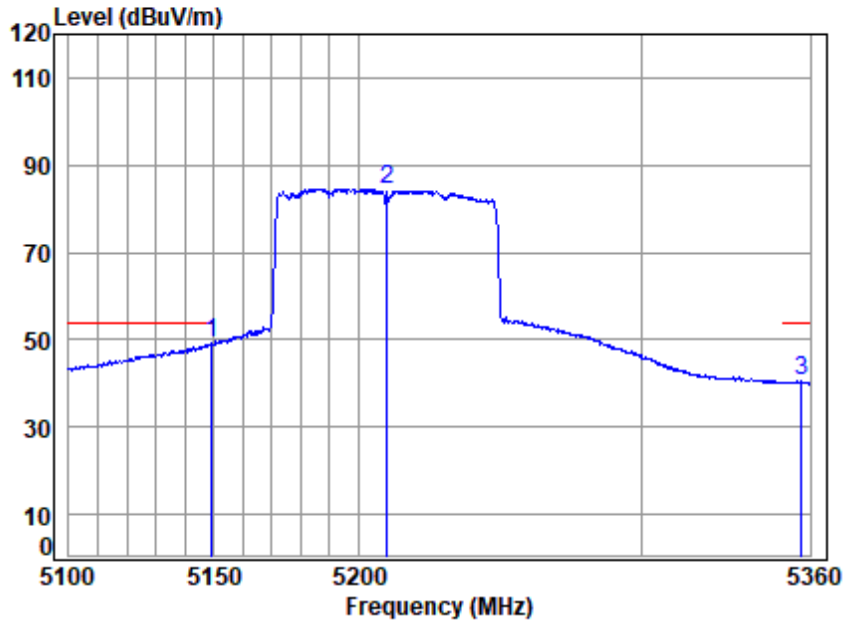


Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

		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	5148.667	7.36	34.00	34.99	59.64	66.01	74.00	-7.99	peak
2 q	5210.000	7.42	34.00	34.99	91.65	98.08	68.20	29.88	peak
3	5350.148	7.56	34.30	35.00	48.64	55.50	74.00	-18.50	peak



Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
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	5149.178	7.36	34.00	34.99	42.69	49.06	54.00	-4.94 Average
2	5210.000	7.42	34.00	34.99	78.18	84.61	-----	----- Average
3	5357.069	7.57	34.33	35.00	33.61	40.51	54.00	-13.49 Average

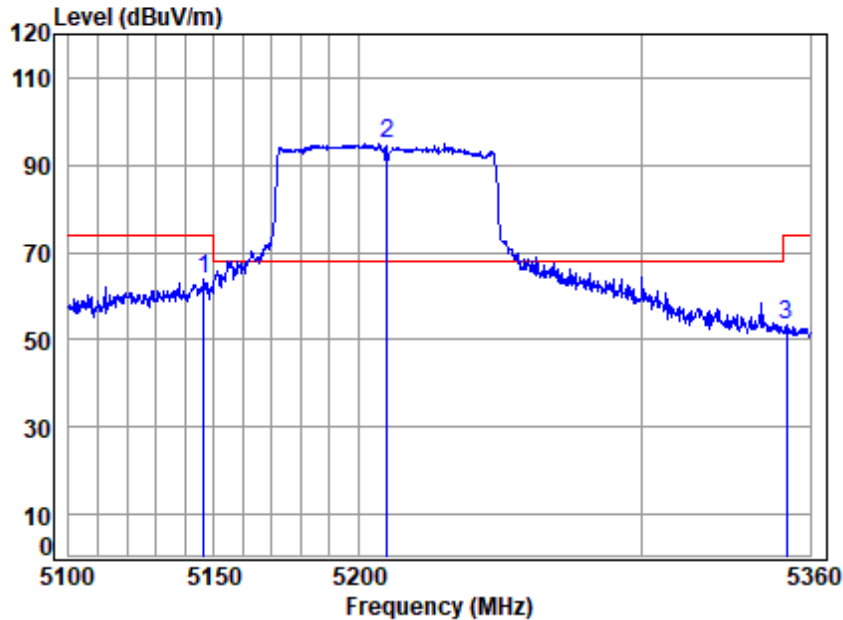


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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
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	5146.363	7.36	34.01	34.99	57.69	64.07	74.00	-9.93	Peak
2 q	5210.000	7.42	34.00	34.99	88.61	95.04	68.20	26.84	Peak
3	5351.478	7.56	34.31	35.00	46.32	53.19	74.00	-20.81	Peak

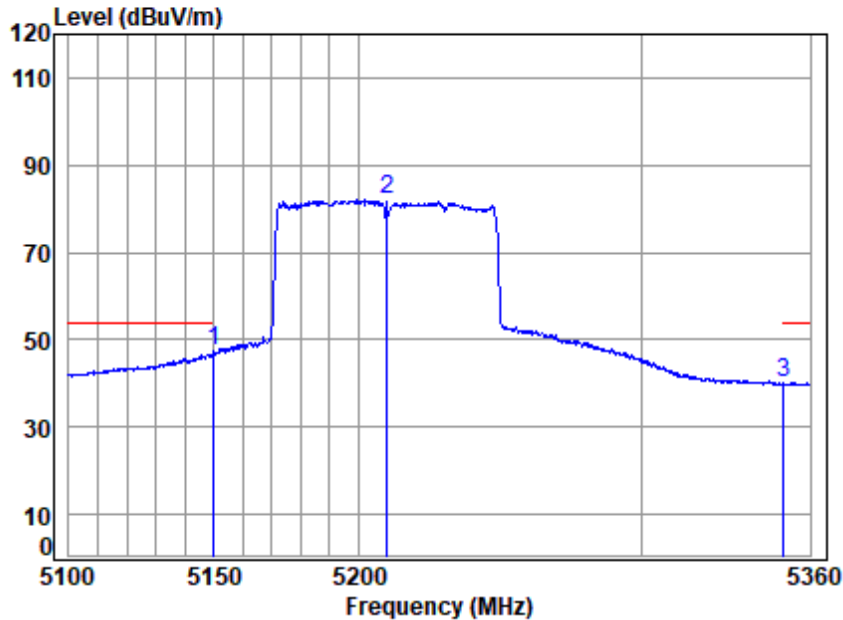


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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
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 5149.690		7.36	34.00	34.99	41.05	47.42	54.00	-6.58 Average
2 5210.000		7.42	34.00	34.99	75.61	82.04	-----	----- Average
3 5350.414		7.56	34.30	35.00	33.17	40.03	54.00	-13.97 Average

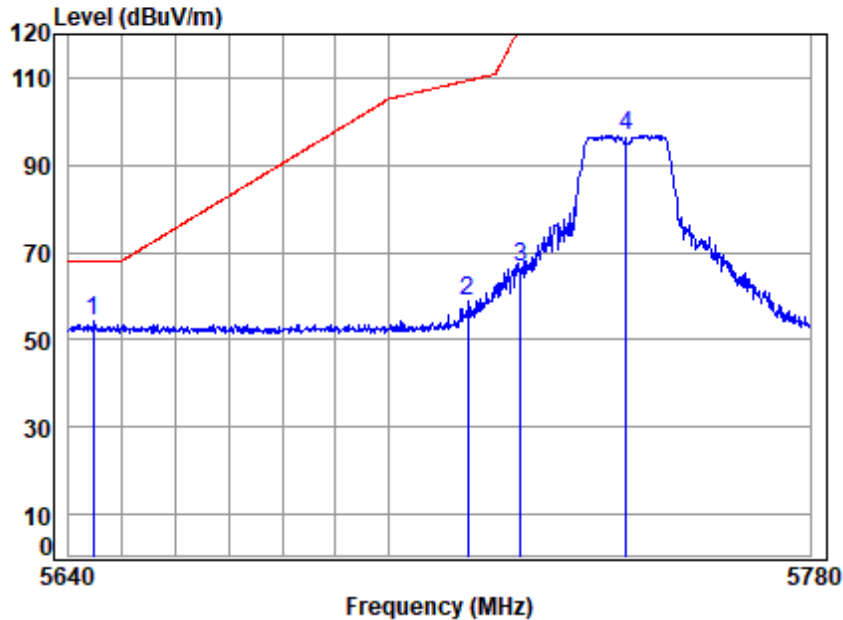


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Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
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 q 5644.565		7.84	34.50	35.02	47.15	54.47	68.20	-13.73 peak
2 5715.000		7.91	34.50	35.02	51.29	58.68	109.40	-50.72 peak
3 5725.000		7.92	34.50	35.02	59.18	66.58	122.20	-55.62 peak
4 5745.000		7.93	34.50	35.03	89.47	96.87	-----	----- peak

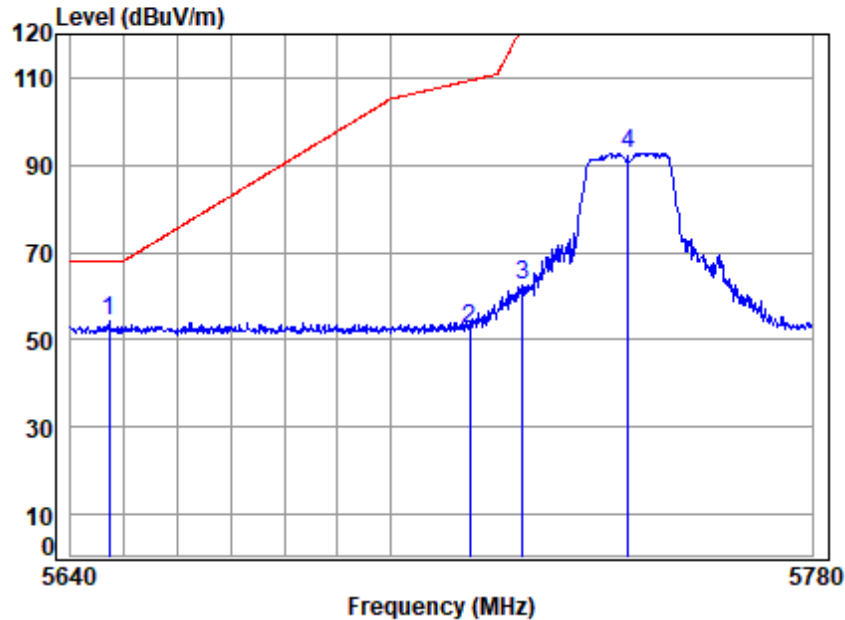


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Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
Mode : 5745 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	5647.196	7.84	34.50	35.02	46.92	54.24	68.20	-13.96 peak
2	5715.000	7.91	34.50	35.02	45.27	52.66	109.40	-56.74 peak
3	5725.000	7.92	34.50	35.02	54.95	62.35	122.20	-59.85 peak
4	5745.000	7.93	34.50	35.03	85.35	92.75	-----	----- peak

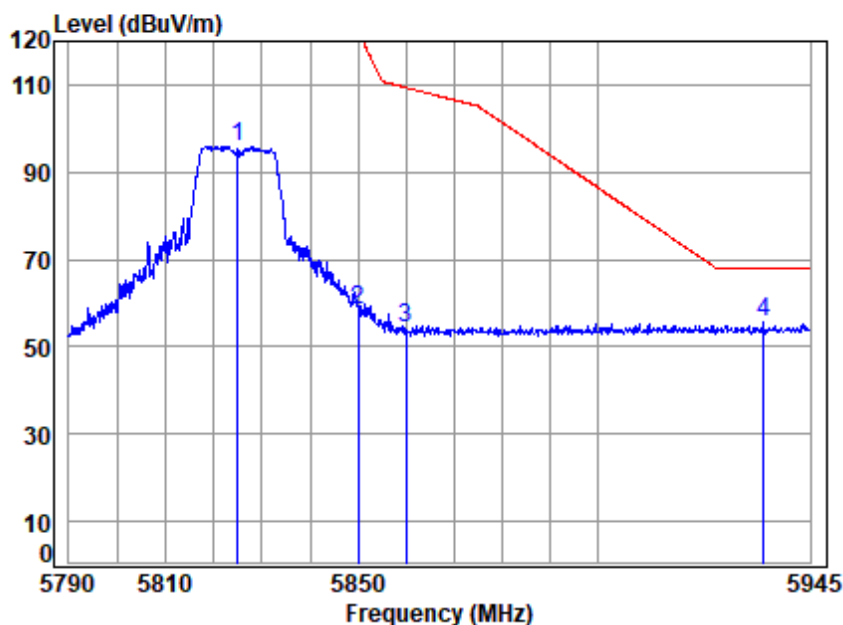


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Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
Mode : 5825 Band edge
: 5G WIFI 11A

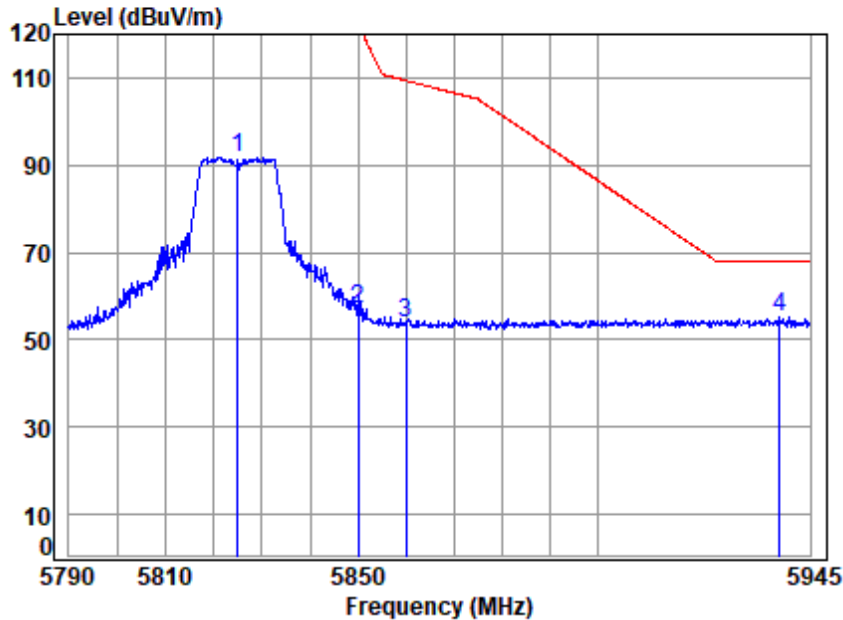
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.01	34.65	35.03	88.33	95.96	-----	-----	peak
2	5850.000	8.03	34.70	35.03	50.71	58.41	122.20	-63.79	peak
3	5860.000	8.04	34.72	35.03	46.64	54.37	109.40	-55.03	peak
4 q	5935.271	8.10	34.87	35.04	47.59	55.52	68.20	-12.68	peak



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Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: High

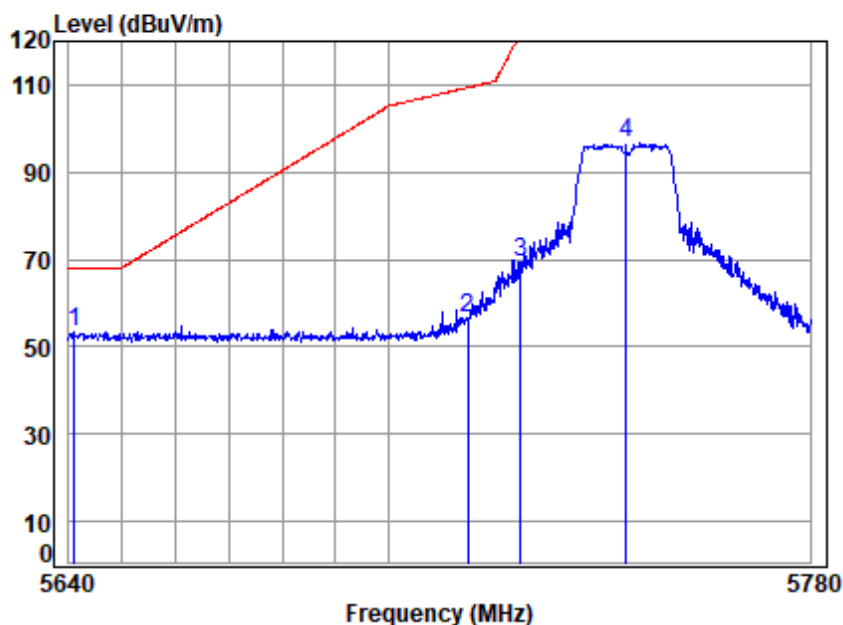


Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
Mode : 5825 Band edge
: 5G WIFI 11A

		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	5825.000	8.01	34.65	35.03	84.08	91.71	-----	-----	peak
2	5850.000	8.03	34.70	35.03	49.23	56.93	122.20	-65.27	peak
3	5860.000	8.04	34.72	35.03	46.27	54.00	109.40	-55.40	peak
4 q	5938.564	8.11	34.88	35.04	47.20	55.15	68.20	-13.05	peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
Mode : 5745 Band edge
: 5G WIFI 11N20

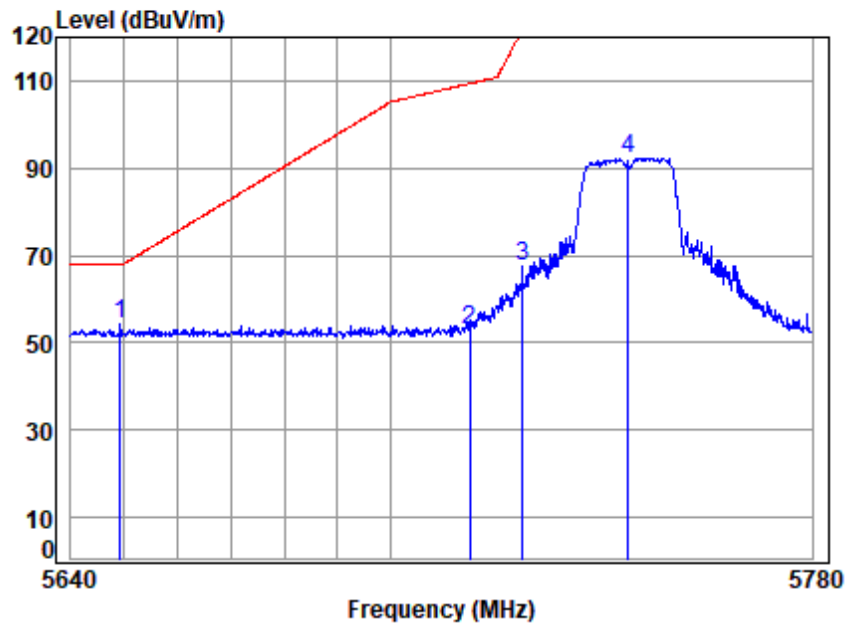
		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	5641.106	7.84	34.50	35.02	46.01	53.33	68.20	-14.87 peak
2	5715.000	7.91	34.50	35.02	49.40	56.79	109.40	-52.61 peak
3	5725.000	7.92	34.50	35.02	61.79	69.19	122.20	-53.01 peak
4	5745.000	7.93	34.50	35.03	89.16	96.56	-----	----- peak



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Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
Mode : 5745 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	5649.273	7.85	34.50	35.02	46.97	54.30	68.20	-13.90 peak
2	5715.000	7.91	34.50	35.02	45.63	53.02	109.40	-56.38 peak
3	5725.000	7.92	34.50	35.02	60.06	67.46	122.20	-54.74 peak
4	5745.000	7.93	34.50	35.03	84.92	92.32	-----	----- peak

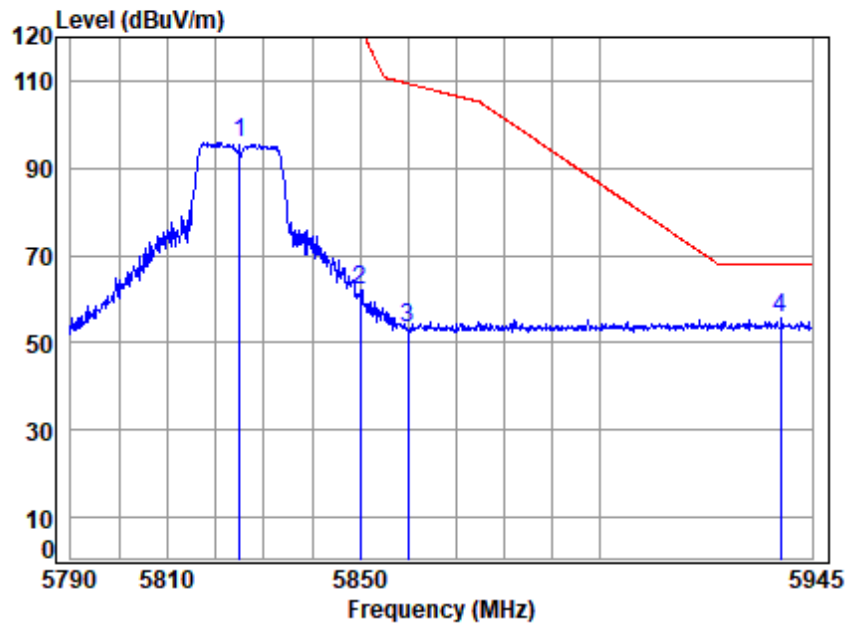


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Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
Mode : 5825 Band edge
: 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	5825.000	8.01	34.65	35.03	88.31	95.94	-----	-----	peak
2	5850.000	8.03	34.70	35.03	54.13	61.83	122.20	-60.37	peak
3	5860.000	8.04	34.72	35.03	45.54	53.27	109.40	-56.13	peak
4 q	5938.407	8.11	34.88	35.04	47.92	55.87	68.20	-12.33	peak

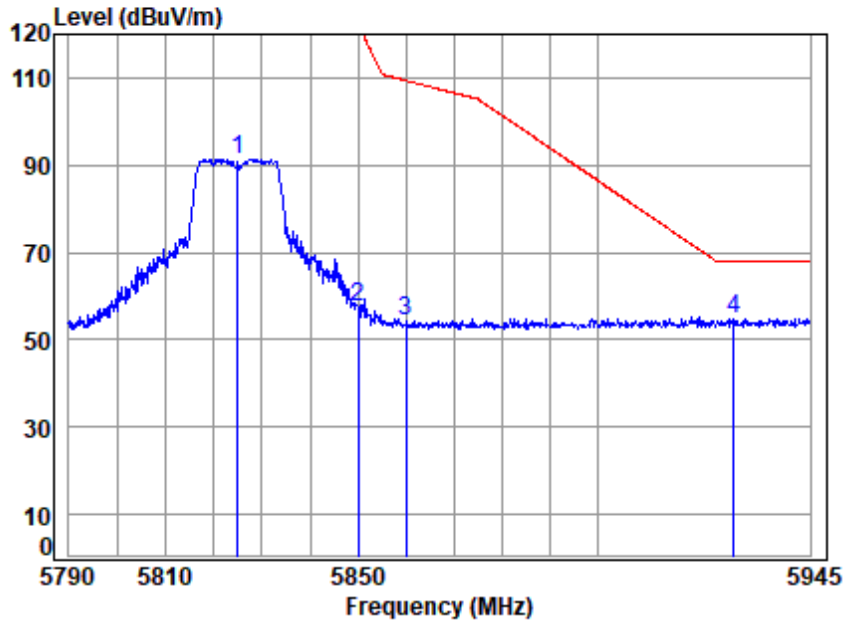


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Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
Mode : 5825 Band edge
: 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	5825.000	8.01	34.65	35.03	83.71	91.34	-----	-----	peak
2	5850.000	8.03	34.70	35.03	49.64	57.34	122.20	-64.86	peak
3	5860.000	8.04	34.72	35.03	46.54	54.27	109.40	-55.13	peak
4 q	5928.845	8.10	34.86	35.04	46.90	54.82	68.20	-13.38	peak

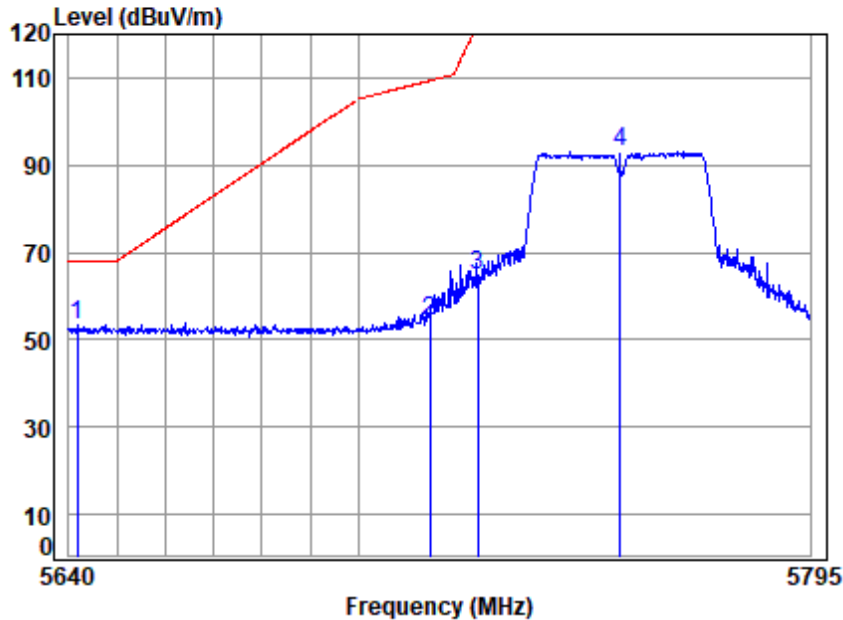


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Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
Mode : 5755 Band edge
: 5G WIFI 11N40

		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	5641.682	7.84	34.50	35.02	46.23	53.55	68.20	-14.65 peak
2	5715.000	7.91	34.50	35.02	47.11	54.50	109.40	-54.90 peak
3	5725.000	7.92	34.50	35.02	57.57	64.97	122.20	-57.23 peak
4	5755.000	7.94	34.51	35.03	85.57	92.99	-----	----- peak

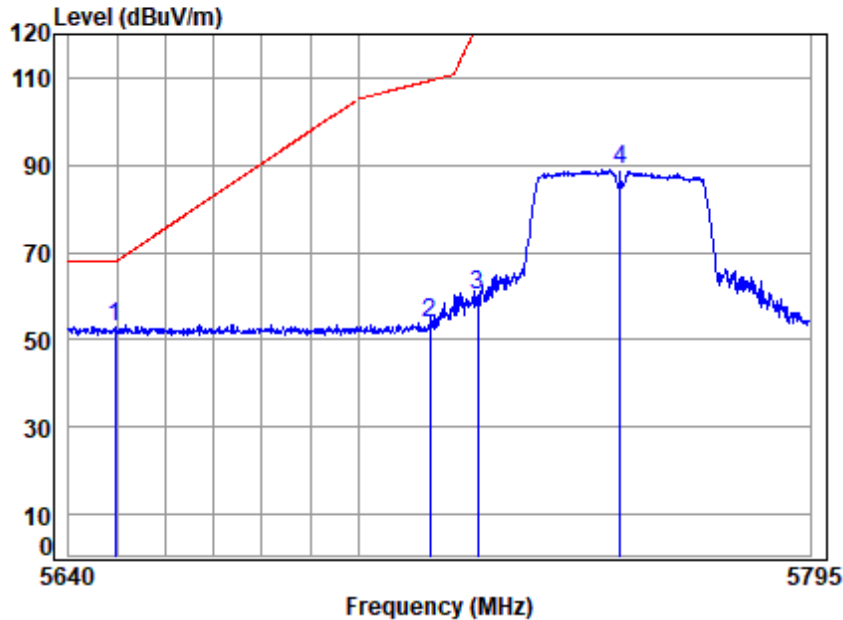


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Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
Mode : 5755 Band edge
: 5G WIFI 11N40

		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 5649.642		7.85	34.50	35.02	45.66	52.99	68.20	-15.21 peak
2 5715.000		7.91	34.50	35.02	46.52	53.91	109.40	-55.49 peak
3 5725.000		7.92	34.50	35.02	52.91	60.31	122.20	-61.89 peak
4 5755.000		7.94	34.51	35.03	81.77	89.19	-----	----- peak

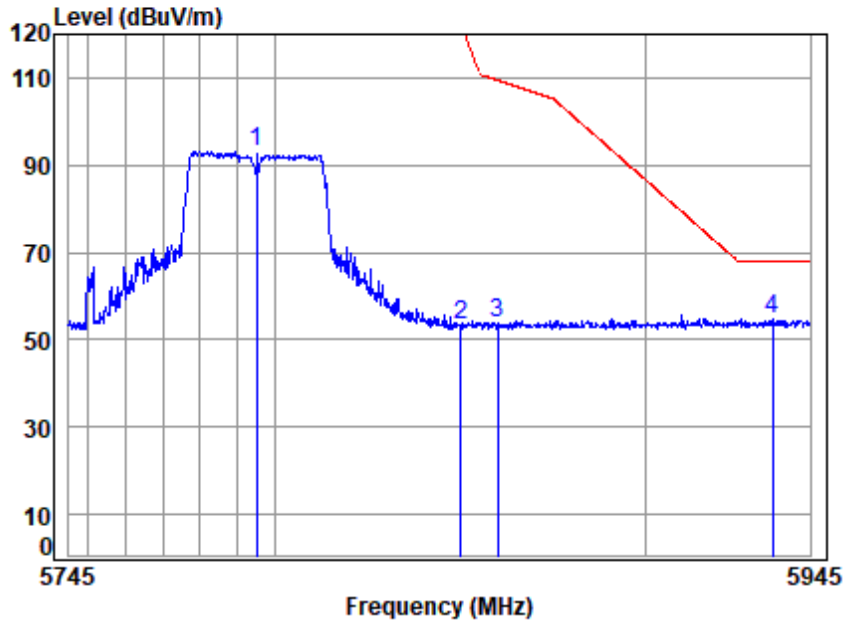


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Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
Mode : 5795 Band edge
: 5G WIFI 11N40

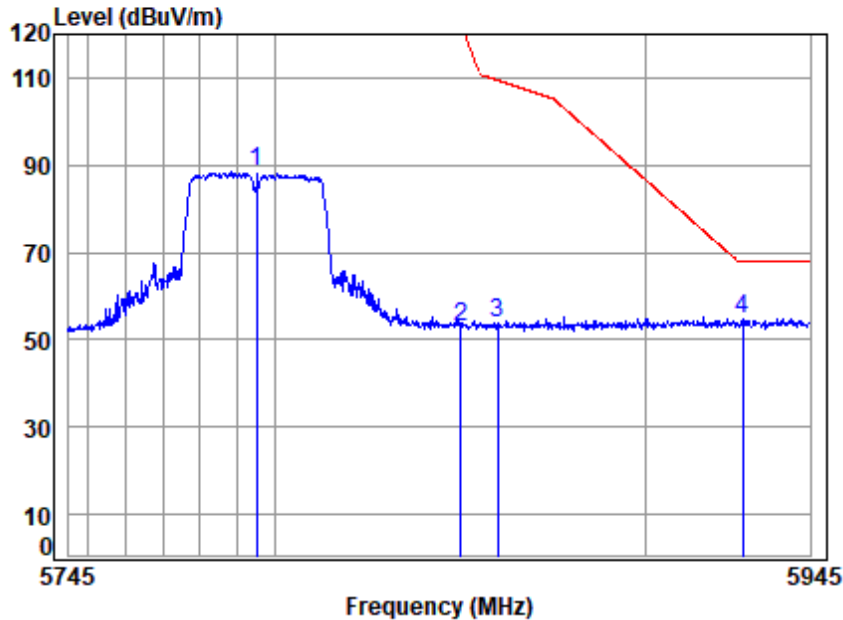
		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	7.98	34.59	35.03	85.54	93.08	-----	-----	peak
2	5850.000	8.03	34.70	35.03	45.86	53.56	122.20	-68.64	peak
3	5860.000	8.04	34.72	35.03	46.23	53.96	109.40	-55.44	peak
4 q	5934.836	8.10	34.87	35.04	46.87	54.80	68.20	-13.40	peak



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Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
Mode : 5795 Band edge
: 5G WIFI 11N40

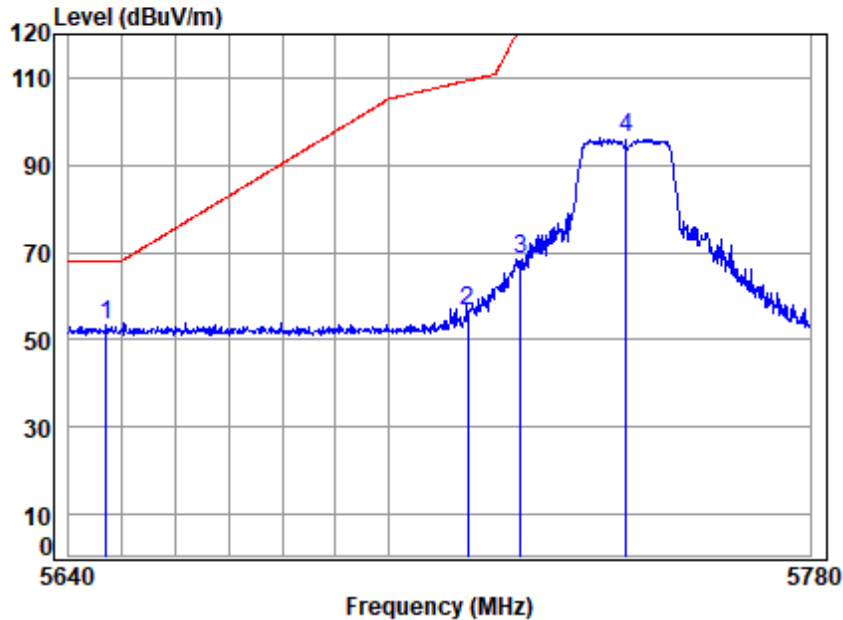
		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	7.98	34.59	35.03	81.17	88.71	-----	-----	peak
2	5850.000	8.03	34.70	35.03	45.41	53.11	122.20	-69.09	peak
3	5860.000	8.04	34.72	35.03	46.23	53.96	109.40	-55.44	peak
4 q	5926.516	8.10	34.85	35.04	46.79	54.70	68.20	-13.50	peak



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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
Mode : 5745 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	q 5647.057	7.84	34.50	35.02	45.94	53.26	68.20	-14.94 peak
2	5715.000	7.91	34.50	35.02	49.42	56.81	109.40	-52.59 peak
3	5725.000	7.92	34.50	35.02	61.19	68.59	122.20	-53.61 peak
4	5745.000	7.93	34.50	35.03	88.65	96.05	-----	----- peak

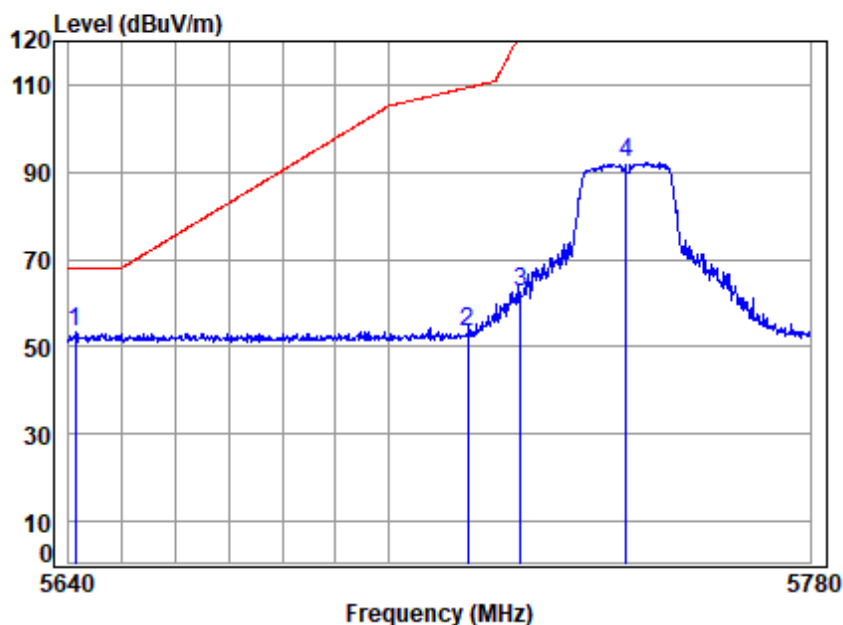


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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
Mode : 5745 Band edge
: 5G WIFI 11AC20

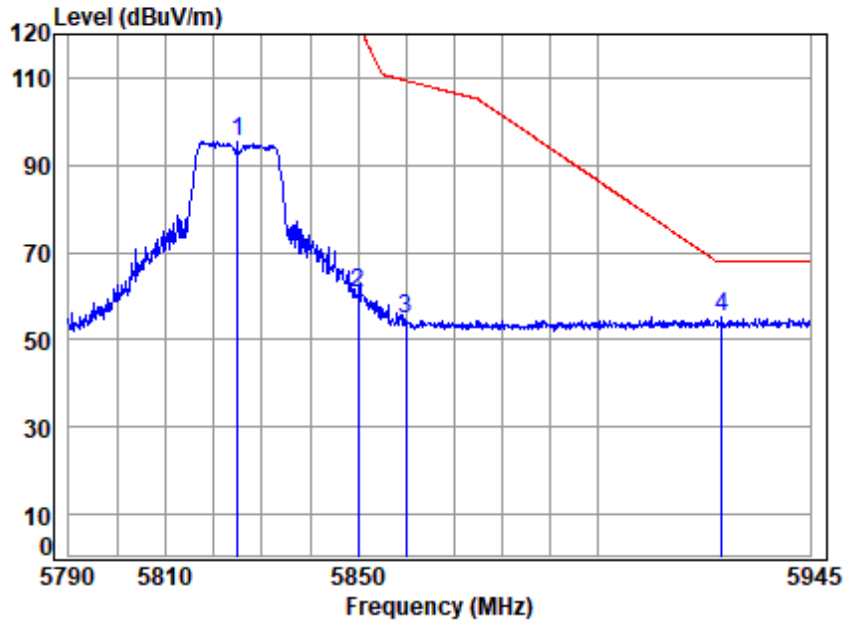
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	5641.245	7.84	34.50	35.02	45.85	53.17	68.20	-15.03 peak
2	5715.000	7.91	34.50	35.02	46.09	53.48	109.40	-55.92 peak
3	5725.000	7.92	34.50	35.02	55.00	62.40	122.20	-59.80 peak
4	5745.000	7.93	34.50	35.03	84.60	92.00	-----	----- peak



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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
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	8.01	34.65	35.03	87.73	95.36	-----	----- peak
2	5850.000	8.03	34.70	35.03	53.14	60.84	122.20	-61.36 peak
3	5860.000	8.04	34.72	35.03	47.10	54.83	109.40	-54.57 peak
4 q	5926.340	8.10	34.85	35.04	47.36	55.27	68.20	-12.93 peak

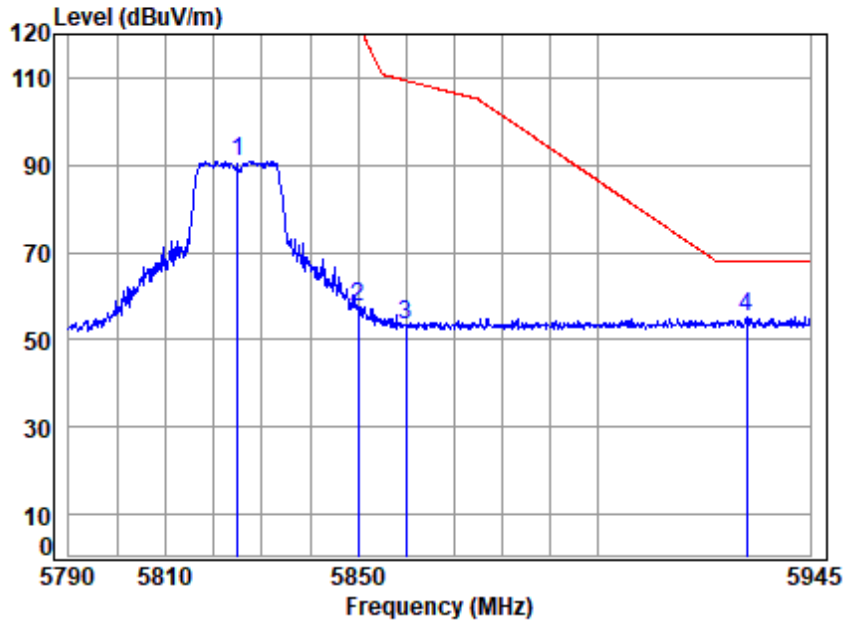


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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
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	8.01	34.65	35.03	83.13	90.76	-----	-----	peak
2	5850.000	8.03	34.70	35.03	49.88	57.58	122.20	-64.62	peak
3	5860.000	8.04	34.72	35.03	45.79	53.52	109.40	-55.88	peak
4 q	5931.508	8.10	34.86	35.04	47.49	55.41	68.20	-12.79	peak

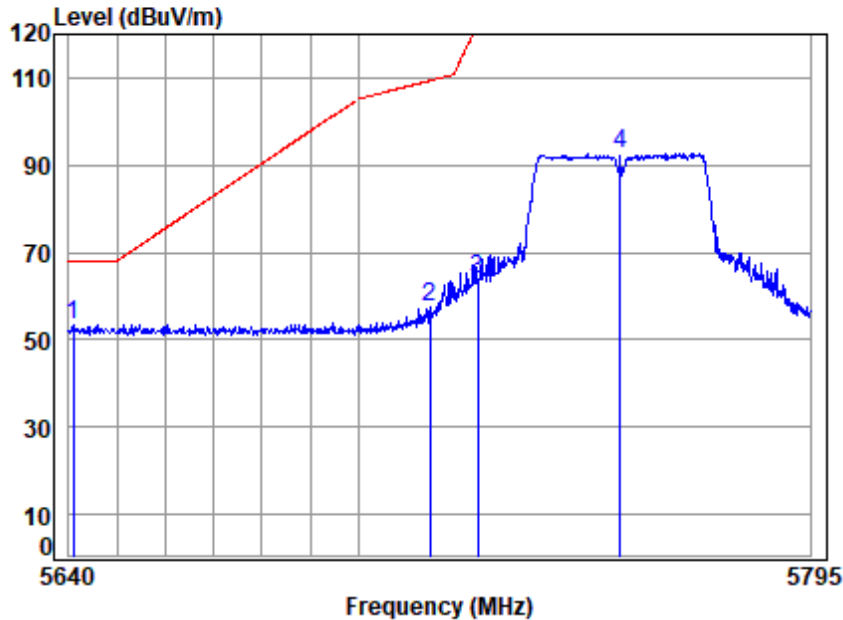


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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
Mode : 5755 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 5640.917		7.84	34.50	35.02	46.22	53.54	68.20	-14.66 peak
2 5715.000		7.91	34.50	35.02	50.06	57.45	109.40	-51.95 peak
3 5725.000		7.92	34.50	35.02	56.27	63.67	122.20	-58.53 peak
4 5755.000		7.94	34.51	35.03	85.22	92.64	-----	----- peak

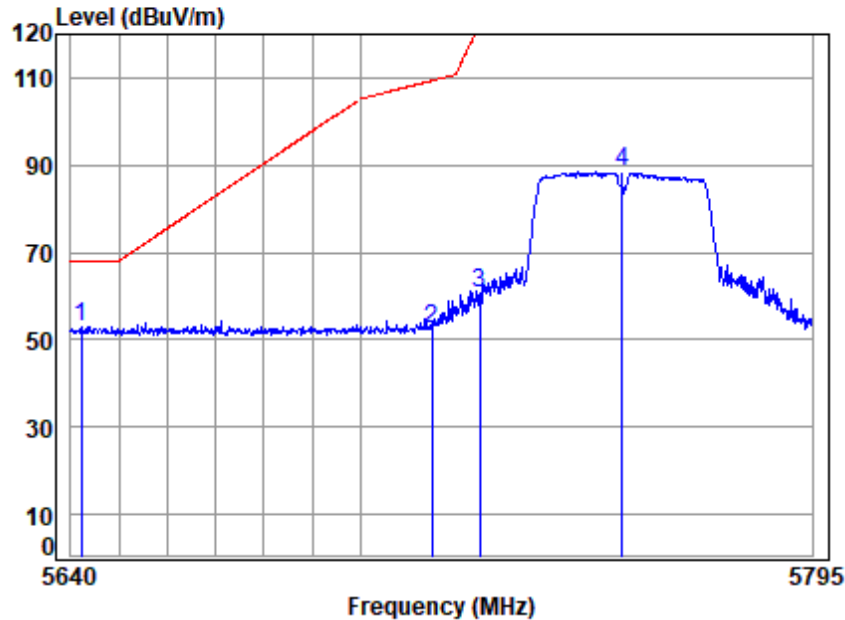


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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel: Low

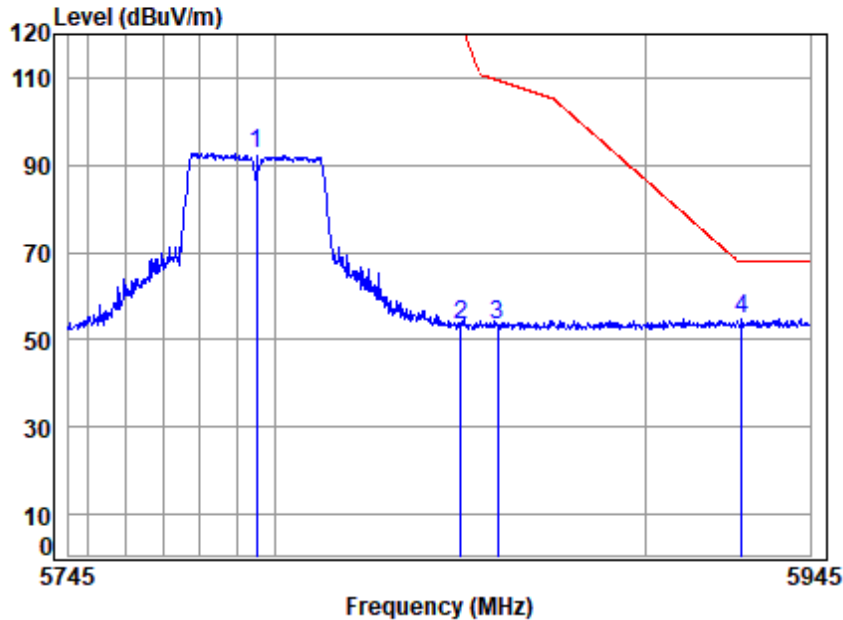


Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
Mode : 5755 Band edge
: 5G WIFI 11AC40

		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	5642.141	7.84	34.50	35.02	45.82	53.14	68.20	-15.06	peak
2	5715.000	7.91	34.50	35.02	45.15	52.54	109.40	-56.86	peak
3	5725.000	7.92	34.50	35.02	53.21	60.61	122.20	-61.59	peak
4	5755.000	7.94	34.51	35.03	80.90	88.32	-----	-----	peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
Mode : 5795 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	5795.000	7.98	34.59	35.03	85.29	92.83	-----	----- peak
2	5850.000	8.03	34.70	35.03	45.55	53.25	122.20	-68.95 peak
3	5860.000	8.04	34.72	35.03	45.46	53.19	109.40	-56.21 peak
4 q	5926.313	8.10	34.85	35.04	46.76	54.67	68.20	-13.53 peak

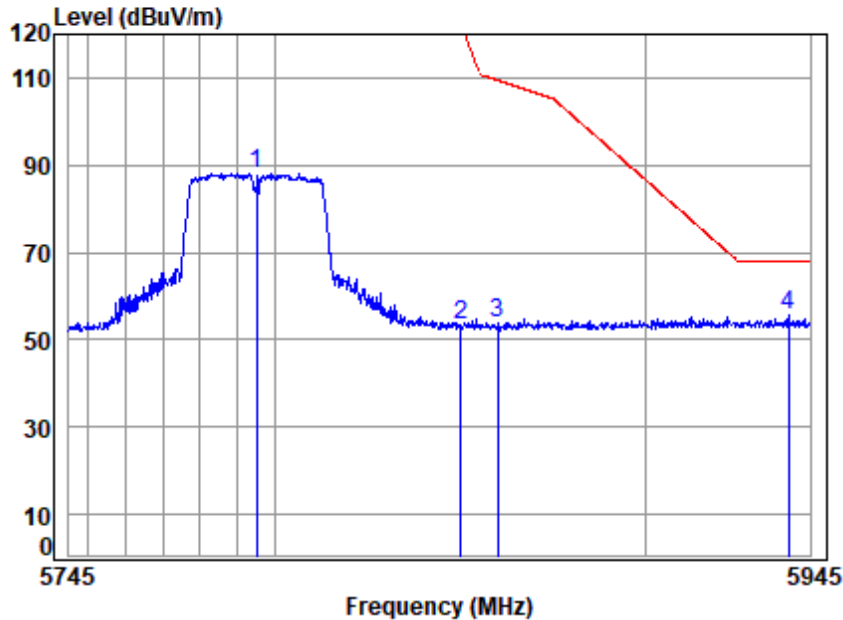


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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
Mode : 5795 Band edge
: 5G WIFI 11AC40

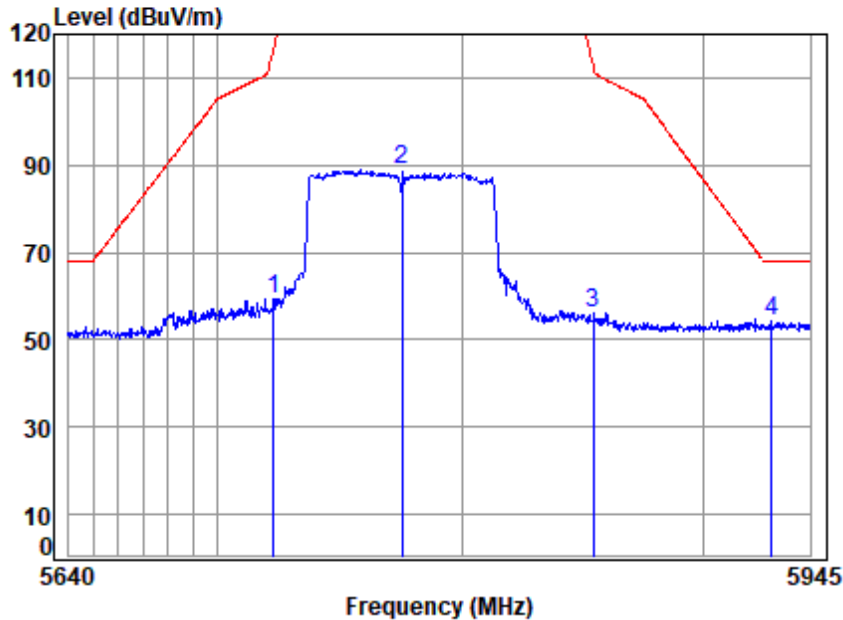
		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	7.98	34.59	35.03	80.54	88.08	-----	-----	peak
2	5850.000	8.03	34.70	35.03	45.86	53.56	122.20	-68.64	peak
3	5860.000	8.04	34.72	35.03	46.05	53.78	109.40	-55.62	peak
4 q	5939.103	8.11	34.88	35.04	47.72	55.67	68.20	-12.53	peak



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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
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	5722.582	7.91	34.50	35.02	52.10	59.49	116.69	-57.20 peak
2	5775.000	7.96	34.55	35.03	81.30	88.78	-----	----- peak
3	5854.273	8.03	34.71	35.03	48.47	56.18	112.46	-56.28 peak
4 q	5928.741	8.10	34.86	35.04	46.44	54.36	68.20	-13.84 peak

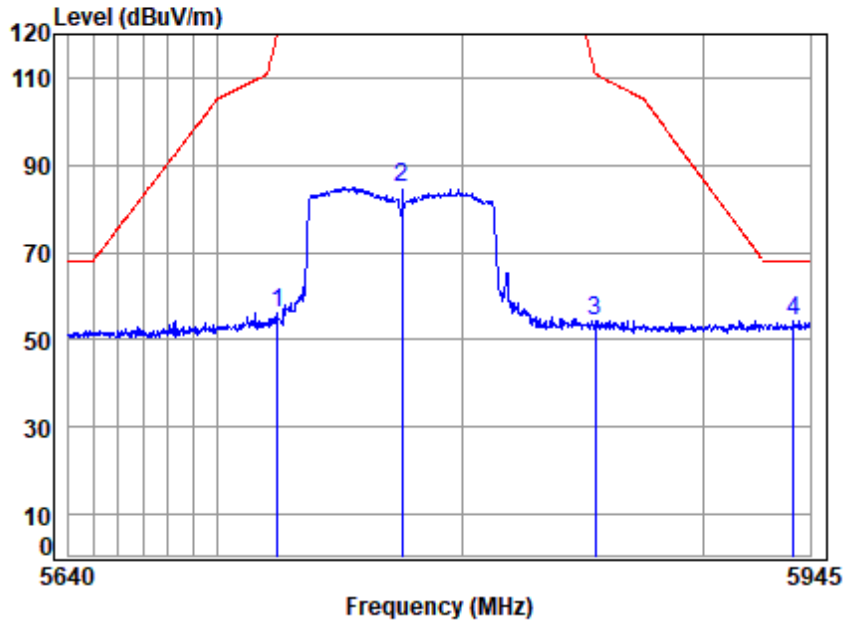


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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
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	5724.088	7.91	34.50	35.02	48.55	55.94	120.12	-64.18	peak
2	5775.000	7.96	34.55	35.03	77.41	84.89	-----	-----	peak
3	5854.890	8.03	34.71	35.03	46.59	54.30	111.05	-56.75	peak
4 q	5938.116	8.11	34.88	35.04	46.24	54.19	68.20	-14.01	peak



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Shenzhen Branch Test and Calibration Laboratory

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7.9 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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7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 20.6 °C Humidity: 55.9 % RH Atmospheric Pressure: 1015 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	10	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	11	Charge + TX mode (U-NII-1)_Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	12	Charge + TX mode (U-NII-3)_Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

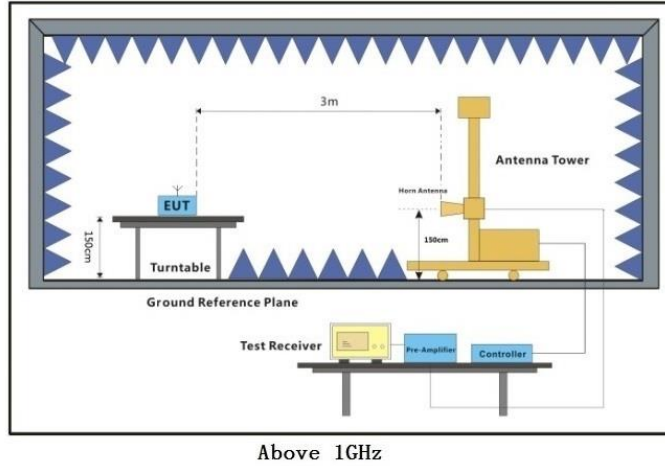


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7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

- 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.



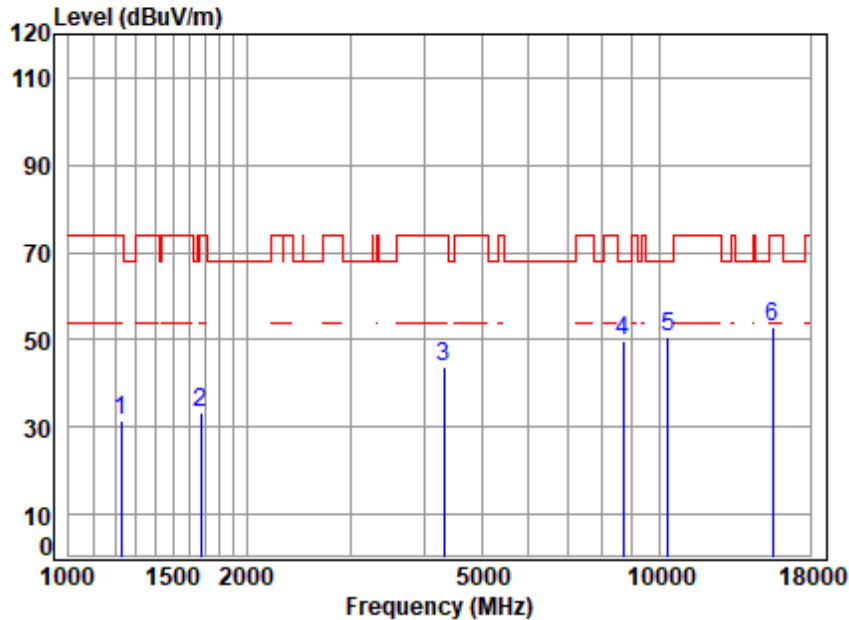
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300073605

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5180 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamplifier	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.791	2.85	24.46	37.63	41.77	31.45	74.00	-42.55	peak
2	1672.779	3.46	26.75	36.46	39.62	33.37	74.00	-40.63	peak
3	4316.859	6.60	33.60	34.55	38.35	44.00	74.00	-30.00	peak
4	8688.480	9.86	36.68	35.68	39.02	49.88	68.20	-18.32	peak
5	10360.000	10.81	37.46	35.74	38.33	50.86	68.20	-17.34	peak
6	15540.000	13.61	40.94	37.47	35.82	52.90	74.00	-21.10	peak

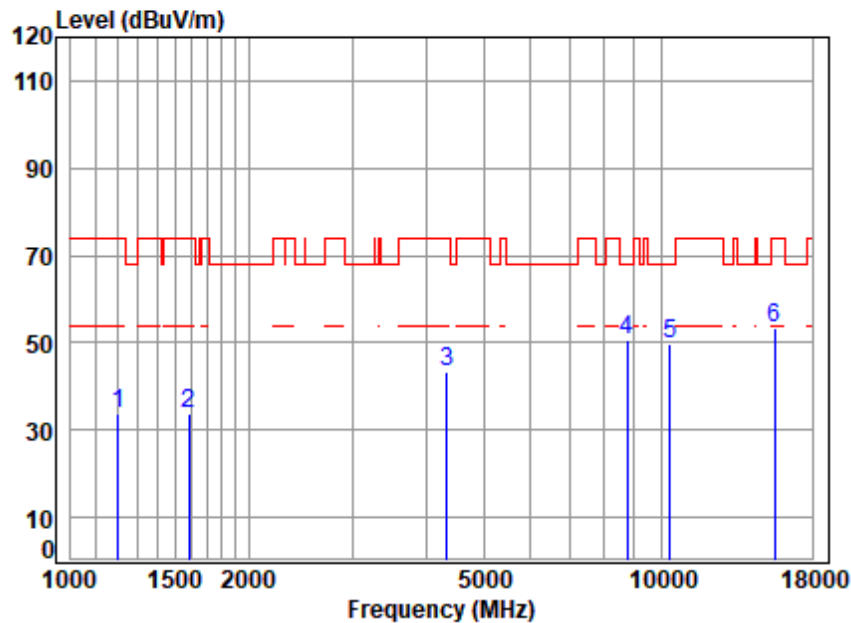


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Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5180 TX RSE
Note : 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	1203.199	2.81	24.41	37.70	44.16	33.68	74.00	-40.32	peak
2	1583.392	3.35	26.30	36.67	40.77	33.75	74.00	-40.25	peak
3	4341.886	6.62	33.60	34.57	37.81	43.46	74.00	-30.54	peak
4 q	8764.146	9.92	36.70	35.63	39.48	50.47	68.20	-17.73	peak
5	10360.000	10.81	37.46	35.74	37.33	49.86	68.20	-18.34	peak
6	15540.000	13.61	40.94	37.47	36.44	53.52	74.00	-20.48	peak

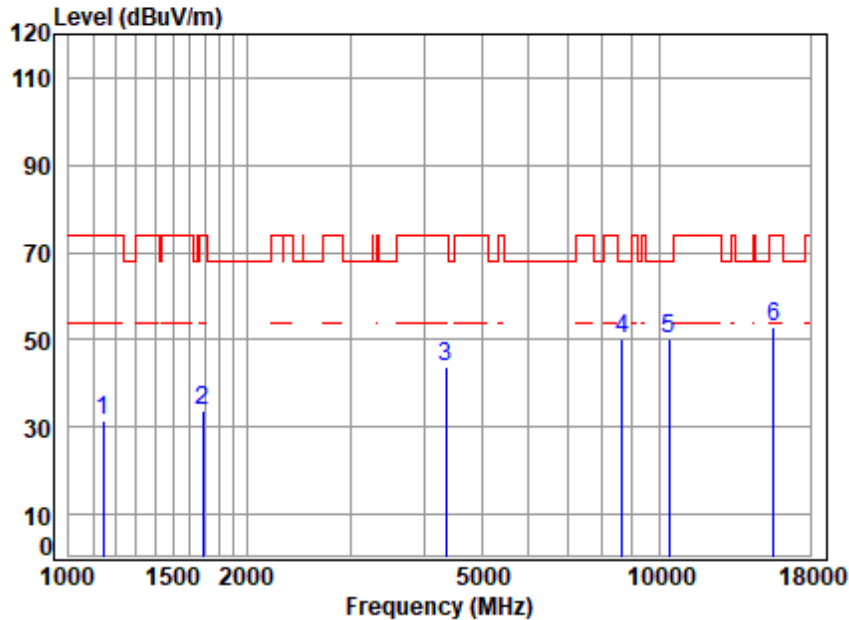


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5200 TX RSE
Note : 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	1142.201	2.70	24.17	37.90	42.48	31.45	74.00	-42.55	peak
2	1687.347	3.47	26.77	36.43	39.86	33.67	74.00	-40.33	peak
3	4354.454	6.63	33.59	34.58	38.28	43.92	74.00	-30.08	peak
4	8663.404	9.84	36.63	35.69	39.29	50.07	68.20	-18.13	peak
5	10400.000	10.84	37.50	35.75	37.79	50.38	68.20	-17.82	peak
6	15600.000	13.68	41.00	37.49	35.92	53.11	74.00	-20.89	peak

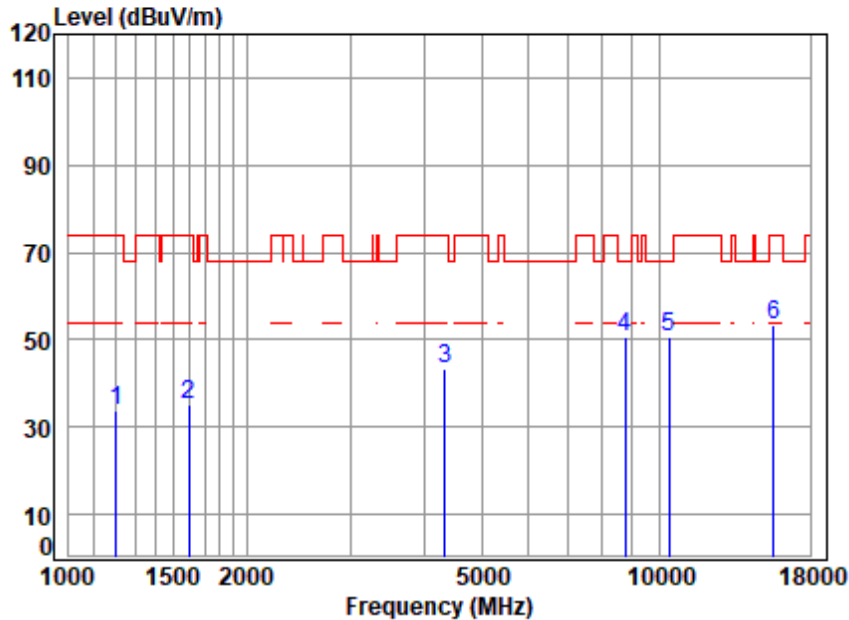


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Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5200 TX RSE
Note : 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	1203.199	2.81	24.41	37.70	44.42	33.94	74.00	-40.06	peak
2	1597.181	3.37	26.47	36.64	41.80	35.00	74.00	-39.00	peak
3	4329.354	6.61	33.60	34.56	37.68	43.33	74.00	-30.67	peak
4	8764.146	9.92	36.70	35.63	39.60	50.59	68.20	-17.61	peak
5	10400.000	10.84	37.50	35.75	38.02	50.61	68.20	-17.59	peak
6	15600.000	13.68	41.00	37.49	36.07	53.26	74.00	-20.74	peak

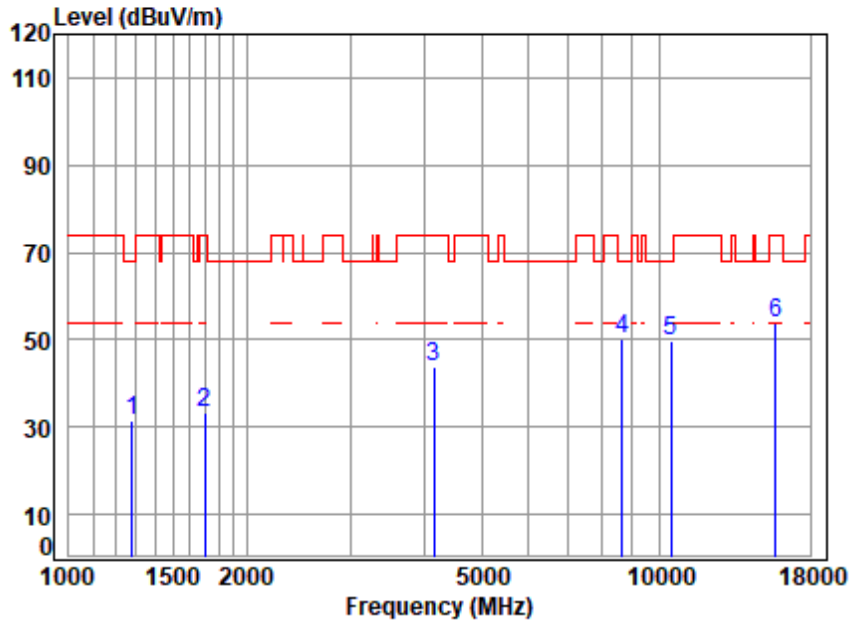


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5240 TX RSE
Note : 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	1282.193	2.93	24.63	37.46	41.19	31.29	68.20	-36.91	peak
2	1697.129	3.49	26.79	36.41	39.26	33.13	74.00	-40.87	peak
3	4157.664	6.44	33.15	34.44	38.82	43.97	74.00	-30.03	peak
4 q	8663.404	9.84	36.63	35.69	39.53	50.31	68.20	-17.89	peak
5	10480.000	10.90	37.50	35.79	37.04	49.65	68.20	-18.55	peak
6	15720.000	13.83	41.14	37.54	36.23	53.66	74.00	-20.34	peak

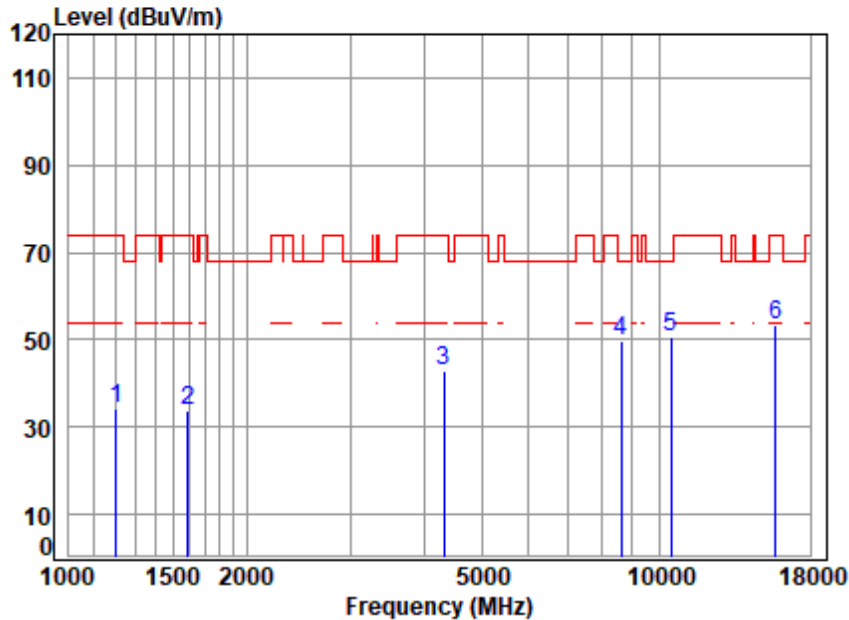


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Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5240 TX RSE
Note : 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	1203.199	2.81	24.41	37.70	44.92	34.44	74.00	-39.56	peak
2	1592.571	3.36	26.41	36.65	40.57	33.69	74.00	-40.31	peak
3	4316.859	6.60	33.60	34.55	37.37	43.02	74.00	-30.98	peak
4	8613.468	9.79	36.60	35.72	39.22	49.89	68.20	-18.31	peak
5	10480.000	10.90	37.50	35.79	38.25	50.86	68.20	-17.34	peak
6	15720.000	13.83	41.14	37.54	35.99	53.42	74.00	-20.58	peak

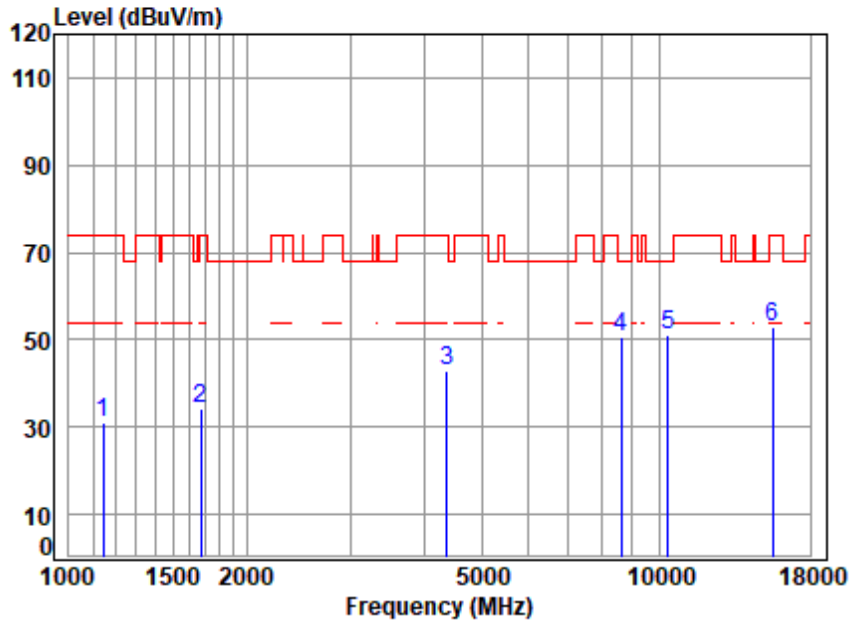


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
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	1145.507	2.71	24.18	37.89	41.88	30.88	74.00	-43.12	peak
2	1672.779	3.46	26.75	36.46	40.27	34.02	74.00	-39.98	peak
3	4367.058	6.65	33.57	34.59	37.45	43.08	74.00	-30.92	peak
4	8613.468	9.79	36.60	35.72	39.81	50.48	68.20	-17.72	peak
5	10360.000	10.81	37.46	35.74	38.68	51.21	68.20	-16.99	peak
6	15540.000	13.61	40.94	37.47	36.03	53.11	74.00	-20.89	peak

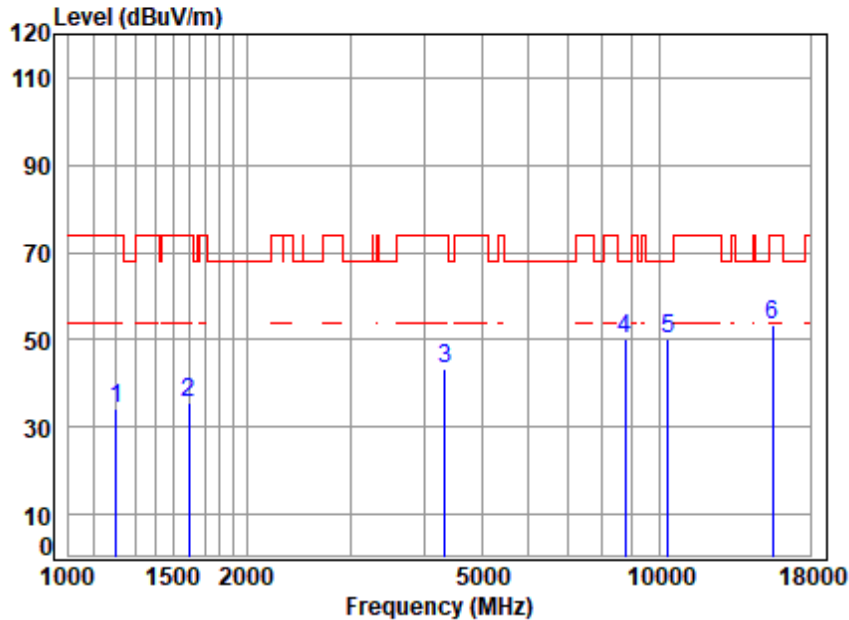


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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
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	1203.199	2.81	24.41	37.70	44.81	34.33	74.00	-39.67	peak
2	1597.181	3.37	26.47	36.64	42.52	35.72	74.00	-38.28	peak
3	4329.354	6.61	33.60	34.56	37.82	43.47	74.00	-30.53	peak
4	8764.146	9.92	36.70	35.63	39.20	50.19	68.20	-18.01	peak
5	10360.000	10.81	37.46	35.74	37.89	50.42	68.20	-17.78	peak
6	15540.000	13.61	40.94	37.47	36.09	53.17	74.00	-20.83	peak

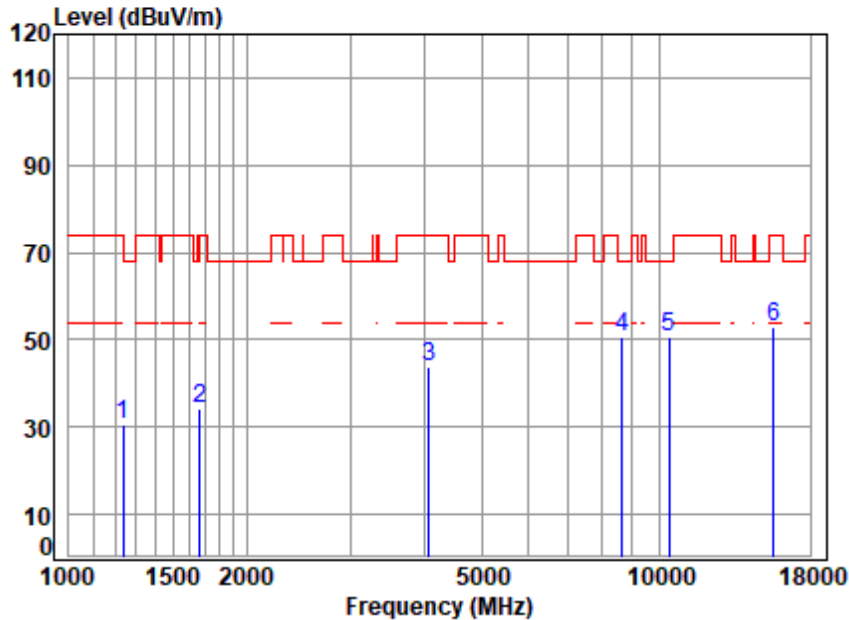


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: middle

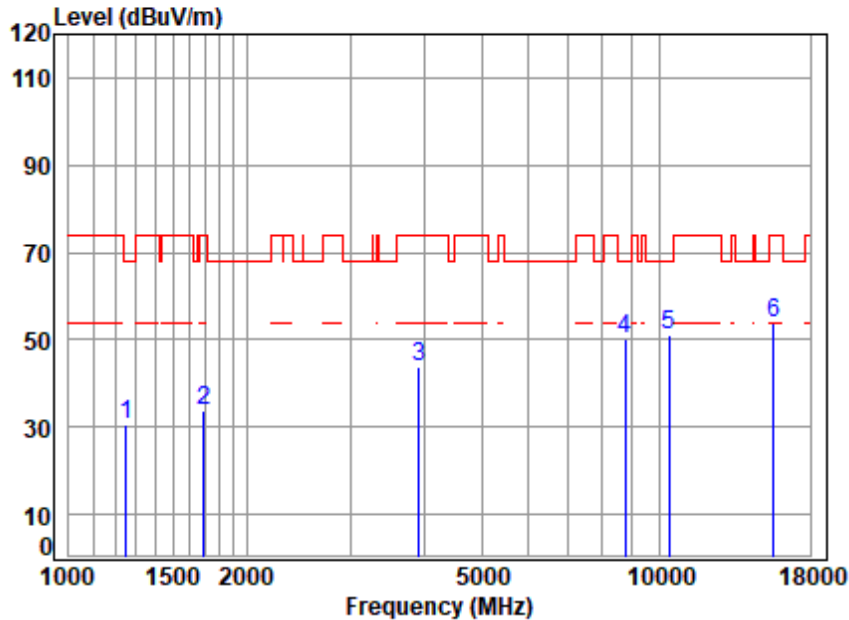


Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5200 TX RSE
Note : 5G WIFI 11N20

		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	1234.909	2.86	24.47	37.61	41.06	30.78	74.00	-43.22	peak
2	1667.951	3.45	26.74	36.47	40.38	34.10	74.00	-39.90	peak
3	4074.388	6.36	32.95	34.38	38.68	43.61	74.00	-30.39	peak
4 q	8638.399	9.81	36.60	35.71	39.99	50.69	68.20	-17.51	peak
5	10400.000	10.84	37.50	35.75	37.92	50.51	68.20	-17.69	peak
6	15600.000	13.68	41.00	37.49	35.54	52.73	74.00	-21.27	peak



Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5200 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	1252.885	2.89	24.51	37.55	40.90	30.75	68.20	-37.45	peak
2	1692.231	3.48	26.78	36.42	40.12	33.96	74.00	-40.04	peak
3	3912.809	6.17	32.60	34.42	39.35	43.70	74.00	-30.30	peak
4	8764.146	9.92	36.70	35.63	39.40	50.39	68.20	-17.81	peak
5	10400.000	10.84	37.50	35.75	38.45	51.04	68.20	-17.16	peak
6	15600.000	13.68	41.00	37.49	36.53	53.72	74.00	-20.28	peak

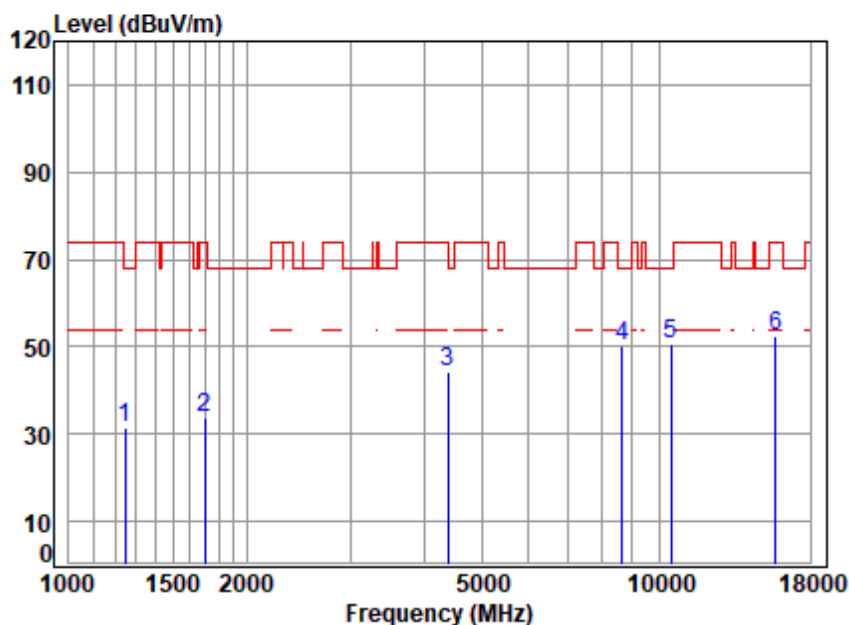


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5240 TX RSE
Note : 5G WIFI 11N20

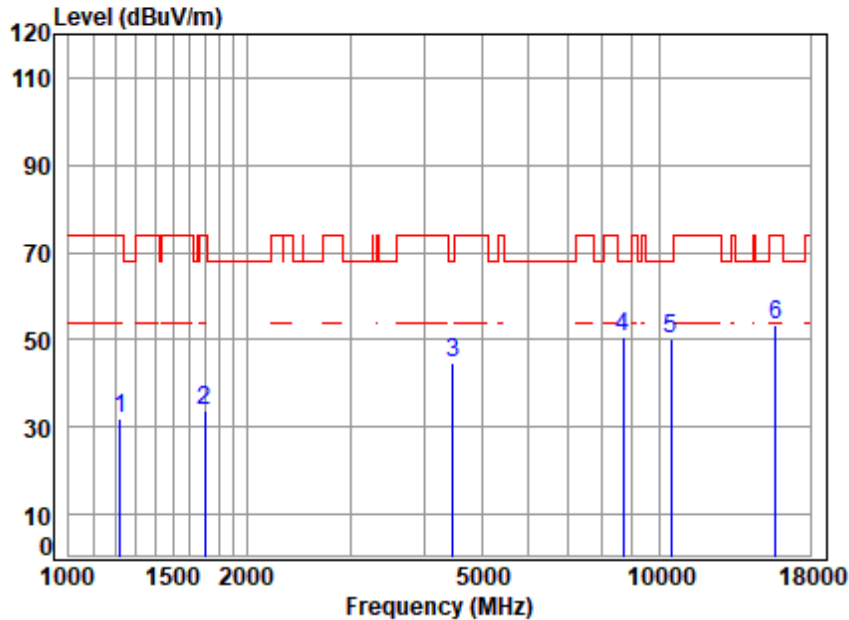
		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	2.87	24.49	37.57	41.57	31.36	68.20	-36.84	peak
2	1697.129	3.49	26.79	36.41	40.04	33.91	74.00	-40.09	peak
3	4392.376	6.67	33.52	34.60	38.77	44.36	74.00	-29.64	peak
4	8663.404	9.84	36.63	35.69	39.55	50.33	68.20	-17.87	peak
5	10480.000	10.90	37.50	35.79	37.90	50.51	68.20	-17.69	peak
6	15720.000	13.83	41.14	37.54	35.21	52.64	74.00	-21.36	peak



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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5240 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	1220.714	2.83	24.44	37.65	42.15	31.77	74.00	-42.23	peak
2	1697.129	3.49	26.79	36.41	40.11	33.98	74.00	-40.02	peak
3	4469.214	6.74	33.50	34.65	38.95	44.54	68.20	-23.66	peak
4 q	8688.480	9.86	36.68	35.68	39.83	50.69	68.20	-17.51	peak
5	10480.000	10.90	37.50	35.79	37.37	49.98	68.20	-18.22	peak
6	15720.000	13.83	41.14	37.54	36.16	53.59	74.00	-20.41	peak

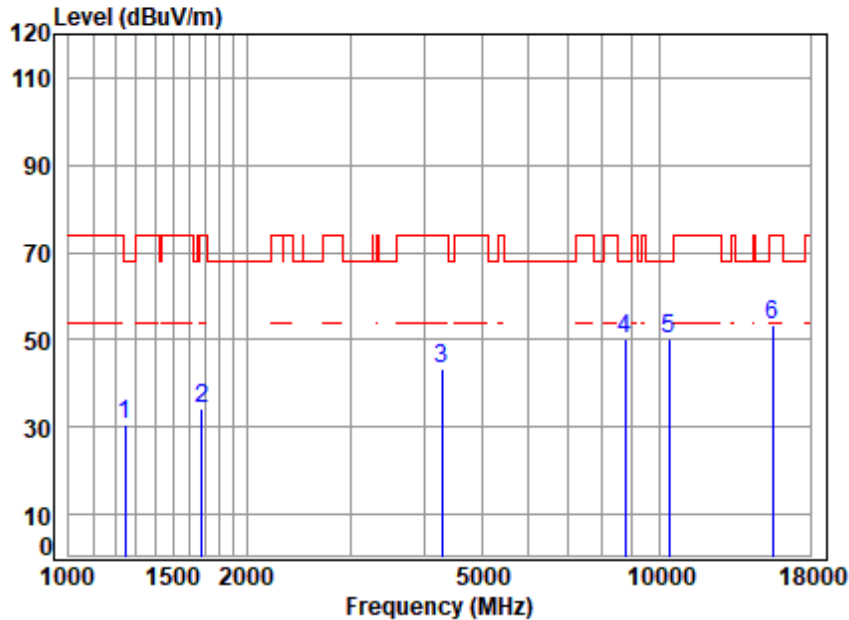


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5190 TX RSE
Note : 5G WIFI 11N40

		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	1245.663	2.87	24.49	37.57	40.94	30.73	68.20	-37.47	peak
2	1682.477	3.47	26.77	36.44	40.20	34.00	74.00	-40.00	peak
3	4291.977	6.57	33.60	34.54	37.81	43.44	74.00	-30.56	peak
4 q	8764.146	9.92	36.70	35.63	39.39	50.38	68.20	-17.82	peak
5	10380.000	10.83	37.48	35.74	37.54	50.11	68.20	-18.09	peak
6	15570.000	13.65	40.97	37.48	36.27	53.41	74.00	-20.59	peak

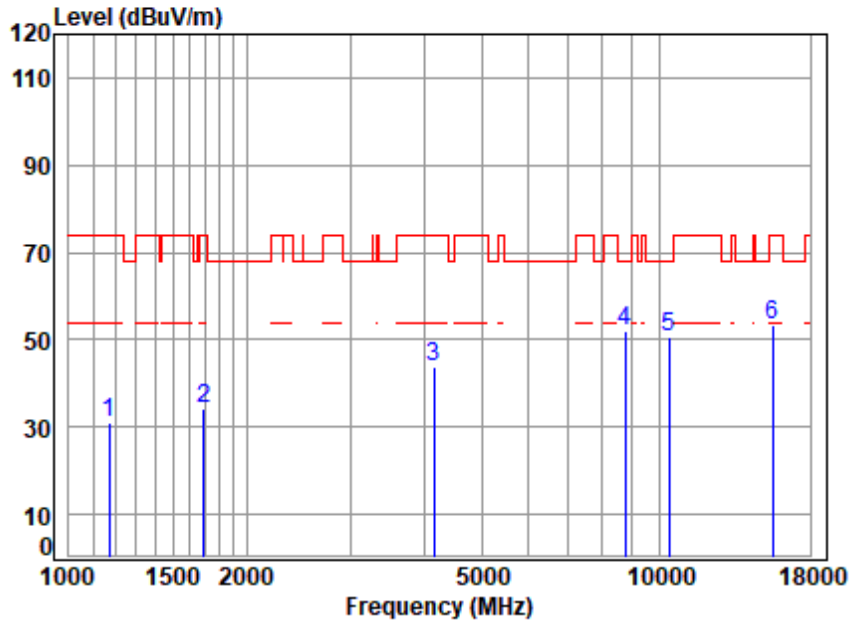


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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5190 TX RSE
Note : 5G WIFI 11N40

		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	1172.303	2.75	24.29	37.80	41.71	30.95	74.00	-43.05	peak
2	1692.231	3.48	26.78	36.42	40.18	34.02	74.00	-39.98	peak
3	4157.664	6.44	33.15	34.44	38.80	43.95	74.00	-30.05	peak
4 q	8764.146	9.92	36.70	35.63	40.81	51.80	68.20	-16.40	peak
5	10380.000	10.83	37.48	35.74	38.05	50.62	68.20	-17.58	peak
6	15570.000	13.65	40.97	37.48	36.40	53.54	74.00	-20.46	peak

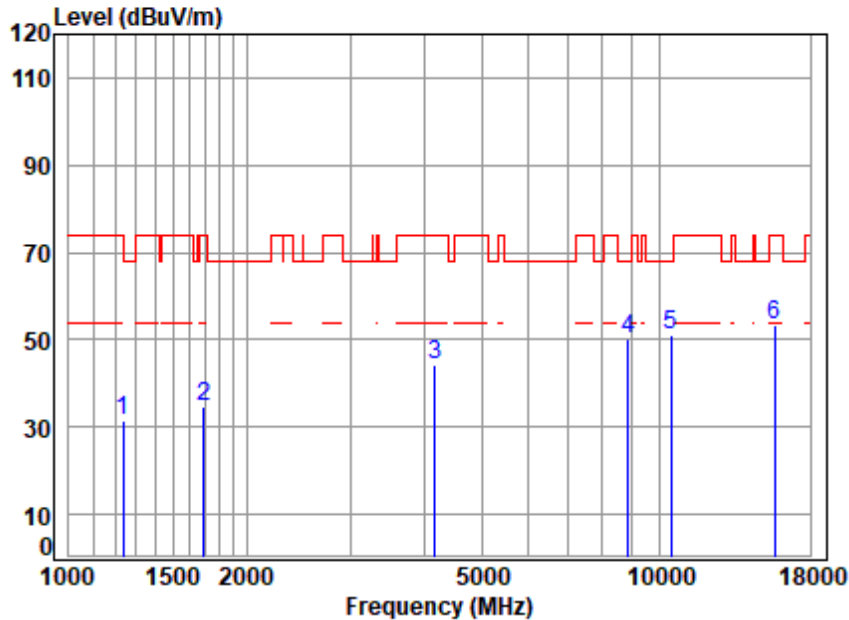


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5230 TX RSE
Note : 5G WIFI 11N40

		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	1234.909	2.86	24.47	37.61	41.82	31.54	74.00	-42.46	peak
2	1692.231	3.48	26.78	36.42	40.61	34.45	74.00	-39.55	peak
3	4169.698	6.45	33.22	34.45	39.22	44.44	74.00	-29.56	peak
4	8840.473	9.99	36.70	35.59	39.12	50.22	68.20	-17.98	peak
5	10460.000	10.89	37.50	35.78	38.71	51.32	68.20	-16.88	peak
6	15690.000	13.79	41.09	37.53	35.88	53.23	74.00	-20.77	peak



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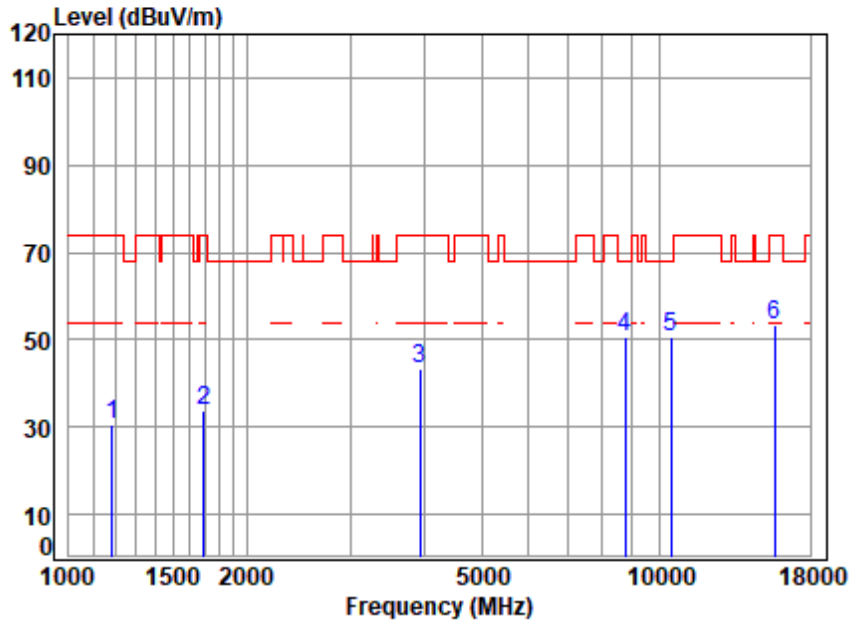
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300073605

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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5230 TX RSE
Note : 5G WIFI 11N40

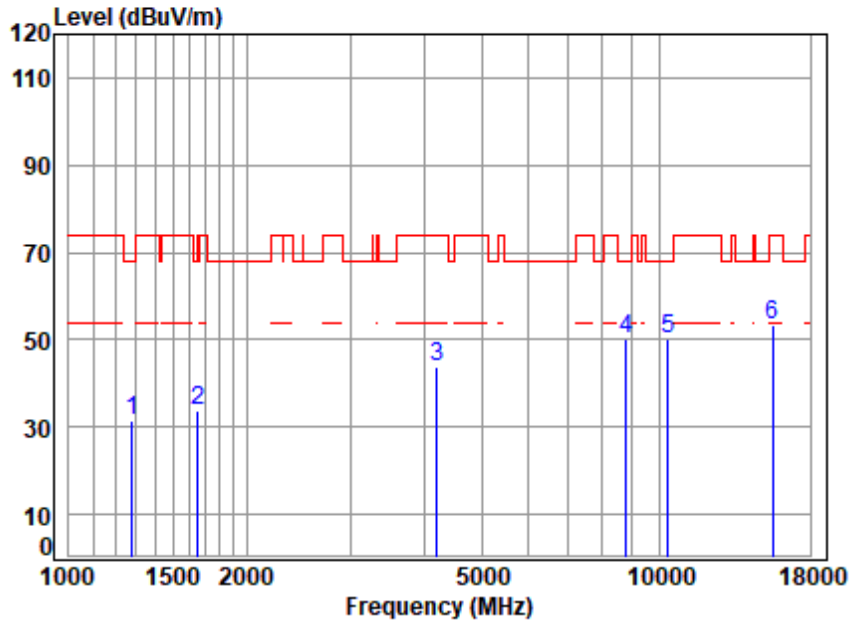
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1182.513	2.77	24.33	37.77	41.24	30.57	74.00	-43.43	peak
2	1692.231	3.48	26.78	36.42	39.96	33.80	74.00	-40.20	peak
3	3935.493	6.20	32.60	34.39	39.16	43.57	74.00	-30.43	peak
4	8738.852	9.90	36.70	35.65	39.65	50.60	68.20	-17.60	peak
5	10460.000	10.89	37.50	35.78	38.26	50.87	68.20	-17.33	peak
6	15690.000	13.79	41.09	37.53	35.89	53.24	74.00	-20.76	peak



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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5180 TX RSE
Note : 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	1278.492	2.93	24.61	37.47	41.29	31.36	68.20	-36.84	peak
2	1653.550	3.43	26.71	36.51	40.16	33.79	68.20	-34.41	peak
3	4206.011	6.49	33.42	34.48	38.21	43.64	74.00	-30.36	peak
4 q	8789.516	9.95	36.70	35.62	39.31	50.34	68.20	-17.86	peak
5	10360.000	10.81	37.46	35.74	37.64	50.17	68.20	-18.03	peak
6	15540.000	13.61	40.94	37.47	36.25	53.33	74.00	-20.67	peak



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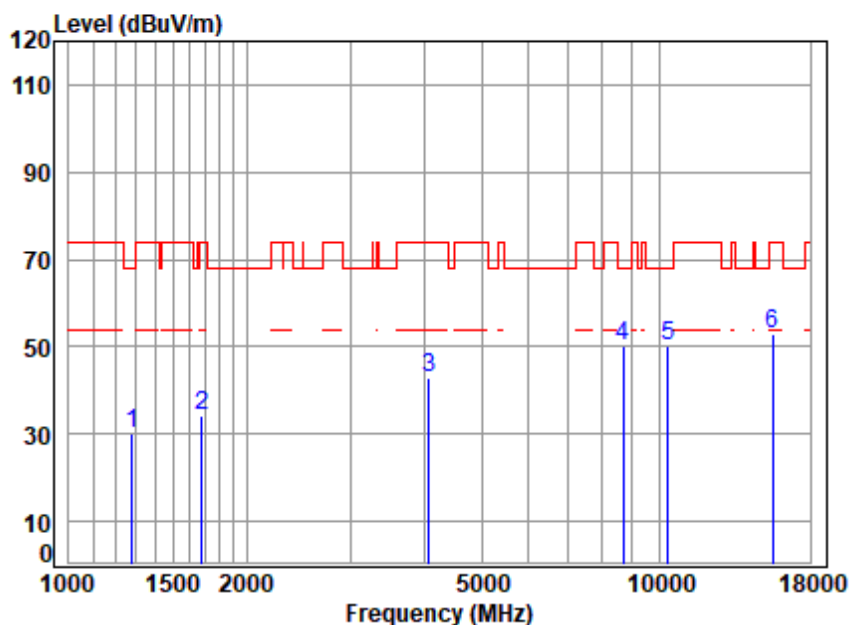
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300073605

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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5180 TX RSE
Note : 5G WIFI 11AC20

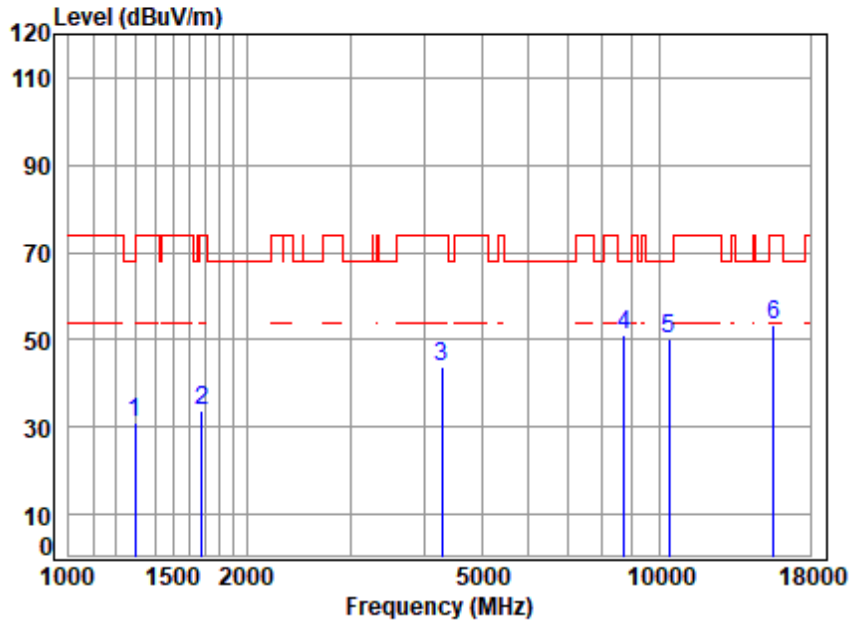
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	2.93	24.63	37.46	40.17	30.27	68.20	-37.93	peak
2	1682.477	3.47	26.77	36.44	40.56	34.36	74.00	-39.64	peak
3	4074.388	6.36	32.95	34.38	38.11	43.04	74.00	-30.96	peak
4	8688.480	9.86	36.68	35.68	39.40	50.26	68.20	-17.94	peak
5	10360.000	10.81	37.46	35.74	37.82	50.35	68.20	-17.85	peak
6	15540.000	13.61	40.94	37.47	36.04	53.12	74.00	-20.88	peak



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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5200 TX RSE
Note : 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	1293.359	2.95	24.67	37.43	40.63	30.82	68.20	-37.38	peak
2	1677.621	3.46	26.76	36.45	40.04	33.81	74.00	-40.19	peak
3	4279.589	6.56	33.60	34.53	38.02	43.65	74.00	-30.35	peak
4 q	8713.630	9.88	36.70	35.66	40.00	50.92	68.20	-17.28	peak
5	10400.000	10.84	37.50	35.75	37.42	50.01	68.20	-18.19	peak
6	15600.000	13.68	41.00	37.49	36.05	53.24	74.00	-20.76	peak

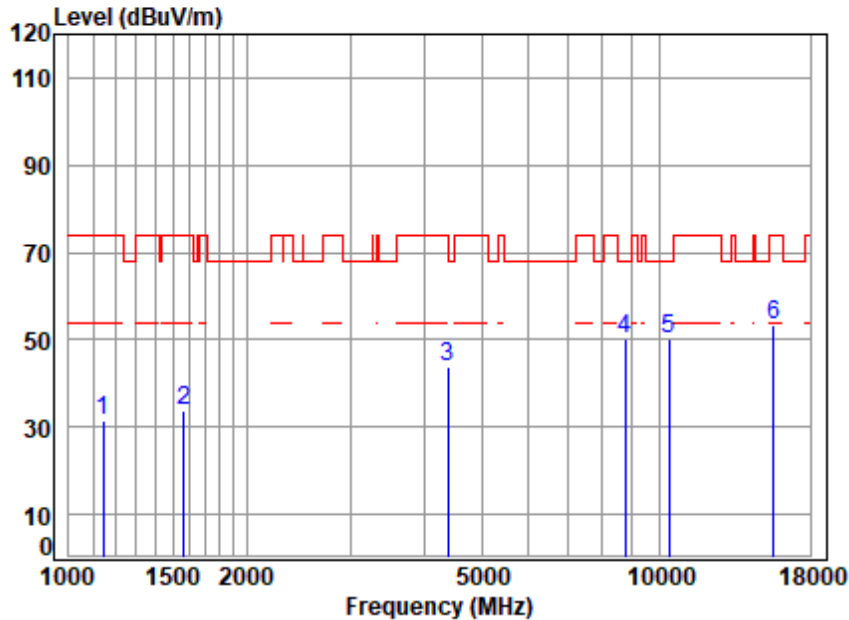


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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5200 TX RSE
Note : 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	1145.507	2.71	24.18	37.89	42.63	31.63	74.00	-42.37	peak
2	1565.191	3.33	26.08	36.71	41.05	33.75	74.00	-40.25	peak
3	4379.699	6.66	33.54	34.59	38.24	43.85	74.00	-30.15	peak
4 q	8764.146	9.92	36.70	35.63	39.12	50.11	68.20	-18.09	peak
5	10400.000	10.84	37.50	35.75	37.38	49.97	68.20	-18.23	peak
6	15600.000	13.68	41.00	37.49	35.99	53.18	74.00	-20.82	peak

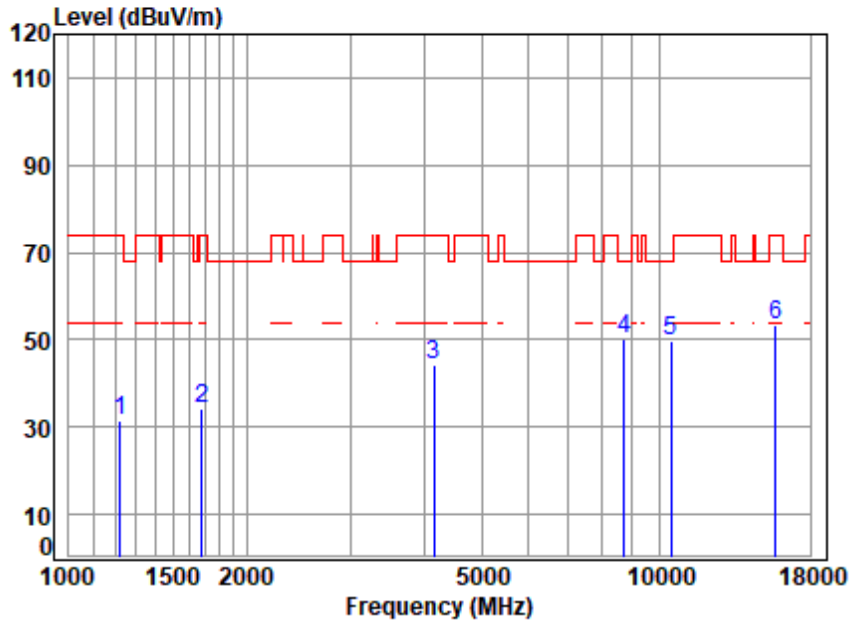


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5240 TX RSE
Note : 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	1220.714	2.83	24.44	37.65	41.93	31.55	74.00	-42.45	peak
2	1677.621	3.46	26.76	36.45	40.62	34.39	74.00	-39.61	peak
3	4157.664	6.44	33.15	34.44	38.95	44.10	74.00	-29.90	peak
4 q	8713.630	9.88	36.70	35.66	39.27	50.19	68.20	-18.01	peak
5	10480.000	10.90	37.50	35.79	37.27	49.88	68.20	-18.32	peak
6	15720.000	13.83	41.14	37.54	35.73	53.16	74.00	-20.84	peak

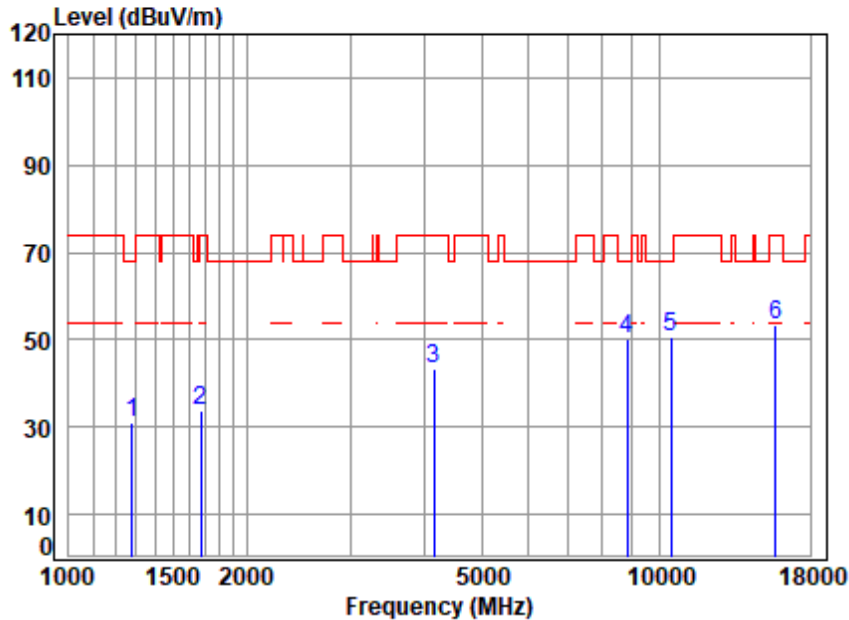


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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5240 TX RSE
Note : 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	1278.492	2.93	24.61	37.47	40.83	30.90	68.20	-37.30	peak
2	1672.779	3.46	26.75	36.46	39.85	33.60	74.00	-40.40	peak
3	4157.664	6.44	33.15	34.44	38.16	43.31	74.00	-30.69	peak
4	8814.957	9.97	36.70	35.60	38.91	49.98	68.20	-18.22	peak
5	10480.000	10.90	37.50	35.79	38.08	50.69	68.20	-17.51	peak
6	15720.000	13.83	41.14	37.54	35.92	53.35	74.00	-20.65	peak

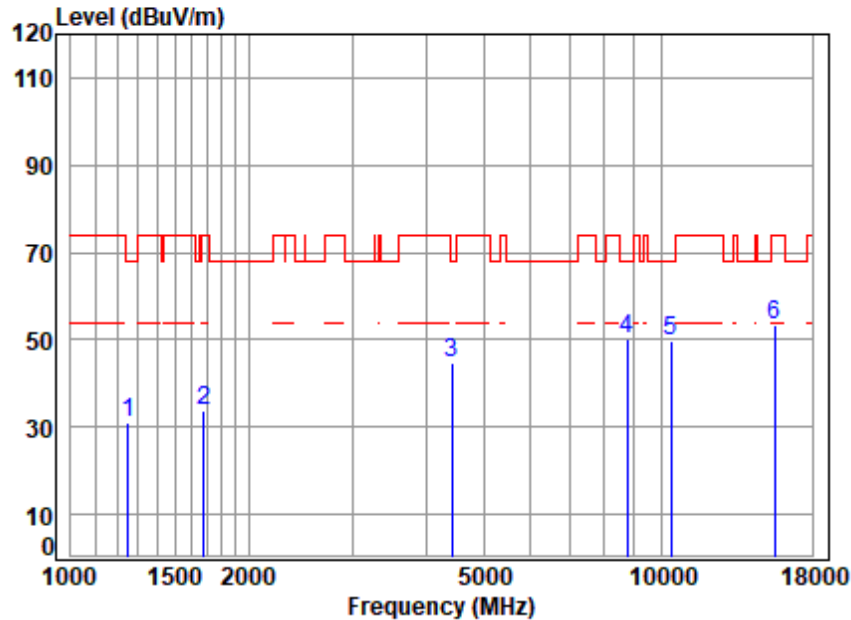


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5190 TX RSE
Note : 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	1249.269	2.88	24.50	37.56	41.42	31.24	68.20	-36.96	peak
2	1677.621	3.46	26.76	36.45	39.94	33.71	74.00	-40.29	peak
3	4417.841	6.69	33.50	34.62	39.19	44.76	68.20	-23.44	peak
4 q	8764.146	9.92	36.70	35.63	38.97	49.96	68.20	-18.24	peak
5	10380.000	10.83	37.48	35.74	37.30	49.87	68.20	-18.33	peak
6	15570.000	13.65	40.97	37.48	36.37	53.51	74.00	-20.49	peak

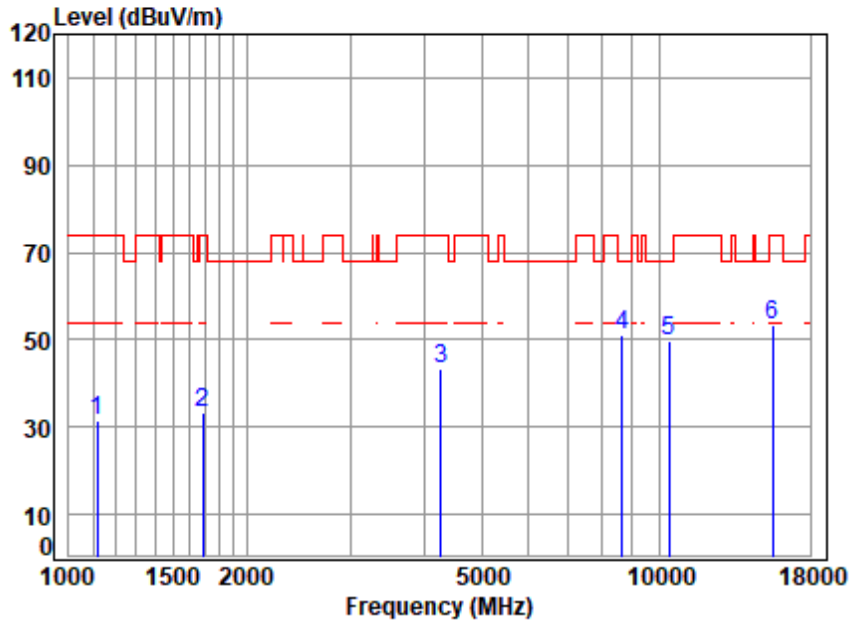


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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5190 TX RSE
Note : 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	1116.093	2.66	24.07	37.99	42.69	31.43	74.00	-42.57	peak
2	1687.347	3.47	26.77	36.43	39.68	33.49	74.00	-40.51	peak
3	4267.237	6.55	33.60	34.52	37.55	43.18	74.00	-30.82	peak
4 q	8663.404	9.84	36.63	35.69	40.50	51.28	68.20	-16.92	peak
5	10380.000	10.83	37.48	35.74	37.20	49.77	68.20	-18.43	peak
6	15570.000	13.65	40.97	37.48	36.24	53.38	74.00	-20.62	peak

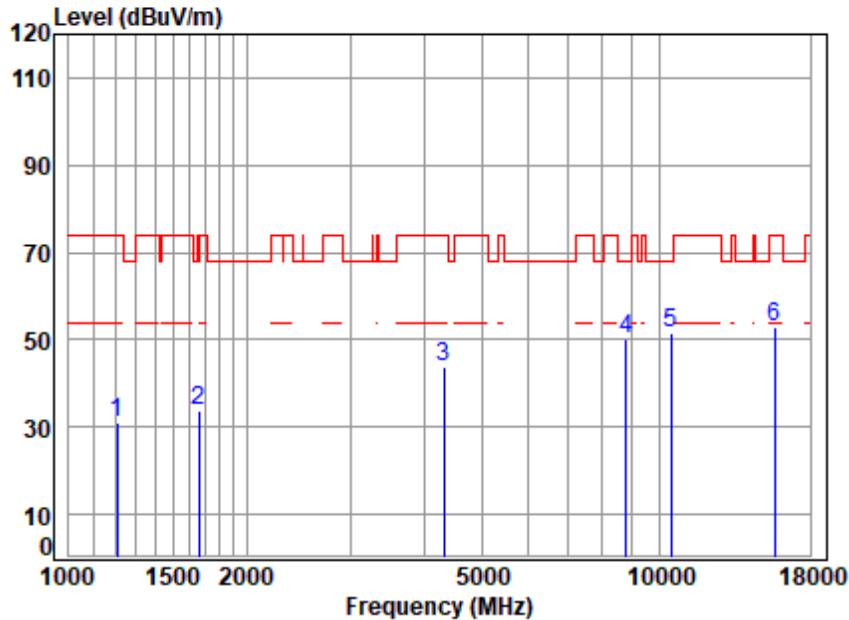


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5230 TX RSE
Note : 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	1206.682	2.81	24.41	37.69	41.35	30.88	74.00	-43.12	peak
2	1658.337	3.44	26.72	36.50	40.03	33.69	68.20	-34.51	peak
3	4316.859	6.60	33.60	34.55	38.15	43.80	74.00	-30.20	peak
4	8789.516	9.95	36.70	35.62	38.95	49.98	68.20	-18.22	peak
5	10460.000	10.89	37.50	35.78	38.78	51.39	68.20	-16.81	peak
6	15690.000	13.79	41.09	37.53	35.47	52.82	74.00	-21.18	peak

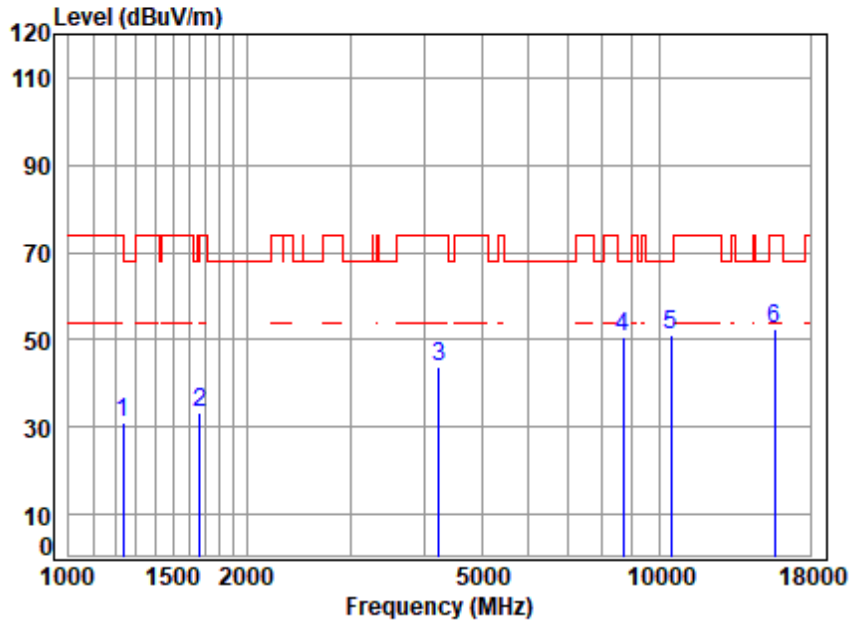


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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5230 TX RSE
Note : 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	1234.909	2.86	24.47	37.61	41.51	31.23	74.00	-42.77	peak
2	1667.951	3.45	26.74	36.47	39.79	33.51	74.00	-40.49	peak
3	4230.396	6.51	33.52	34.49	38.19	43.73	74.00	-30.27	peak
4	8688.480	9.86	36.68	35.68	39.56	50.42	68.20	-17.78	peak
5	10460.000	10.89	37.50	35.78	38.29	50.90	68.20	-17.30	peak
6	15690.000	13.79	41.09	37.53	35.35	52.70	74.00	-21.30	peak

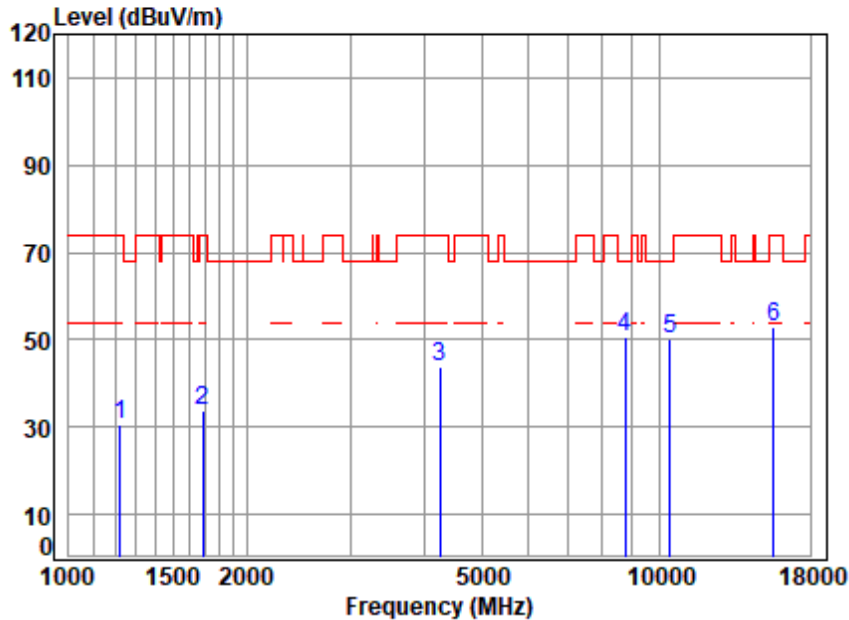


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5210 TX RSE
Note : 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	1224.247	2.84	24.45	37.64	40.93	30.58	74.00	-43.42	peak
2	1687.347	3.47	26.77	36.43	39.80	33.61	74.00	-40.39	peak
3	4254.921	6.54	33.60	34.51	38.19	43.82	74.00	-30.18	peak
4 q	8764.146	9.92	36.70	35.63	39.63	50.62	68.20	-17.58	peak
5	10420.000	10.86	37.50	35.76	37.42	50.02	68.20	-18.18	peak
6	15630.000	13.72	41.03	37.50	35.87	53.12	74.00	-20.88	peak

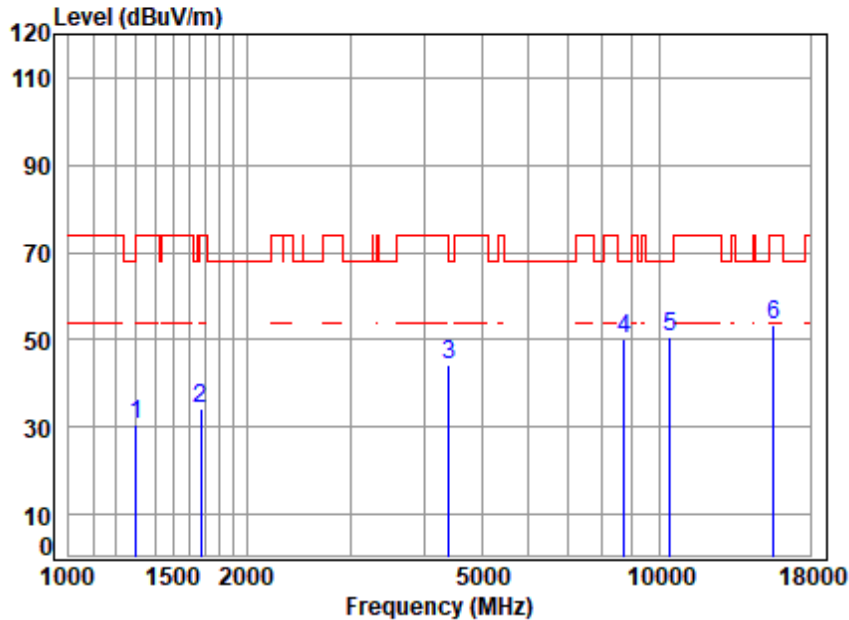


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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5210 TX RSE
Note : 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	1300.858	2.96	24.70	37.41	40.21	30.46	74.00	-43.54	peak
2	1672.779	3.46	26.75	36.46	40.41	34.16	74.00	-39.84	peak
3	4405.090	6.68	33.50	34.61	38.70	44.27	68.20	-23.93	peak
4	8713.630	9.88	36.70	35.66	39.17	50.09	68.20	-18.11	peak
5	10420.000	10.86	37.50	35.76	38.04	50.64	68.20	-17.56	peak
6	15630.000	13.72	41.03	37.50	36.18	53.43	74.00	-20.57	peak

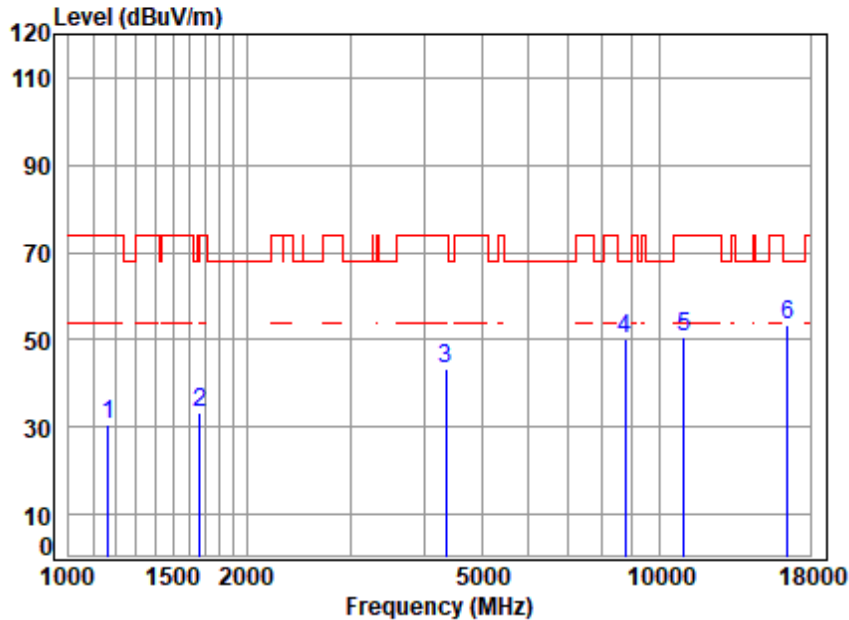


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Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5745 TX RSE
Note : 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	1165.546	2.74	24.26	37.82	41.57	30.75	74.00	-43.25	peak
2	1667.951	3.45	26.74	36.47	39.67	33.39	74.00	-40.61	peak
3	4354.454	6.63	33.59	34.58	37.83	43.47	74.00	-30.53	peak
4	8764.146	9.92	36.70	35.63	39.21	50.20	68.20	-18.00	peak
5	11000.000	11.26	37.70	36.00	37.51	50.47	74.00	-23.53	peak
6	q16500.000	14.16	42.40	37.56	34.58	53.58	68.20	-14.62	peak

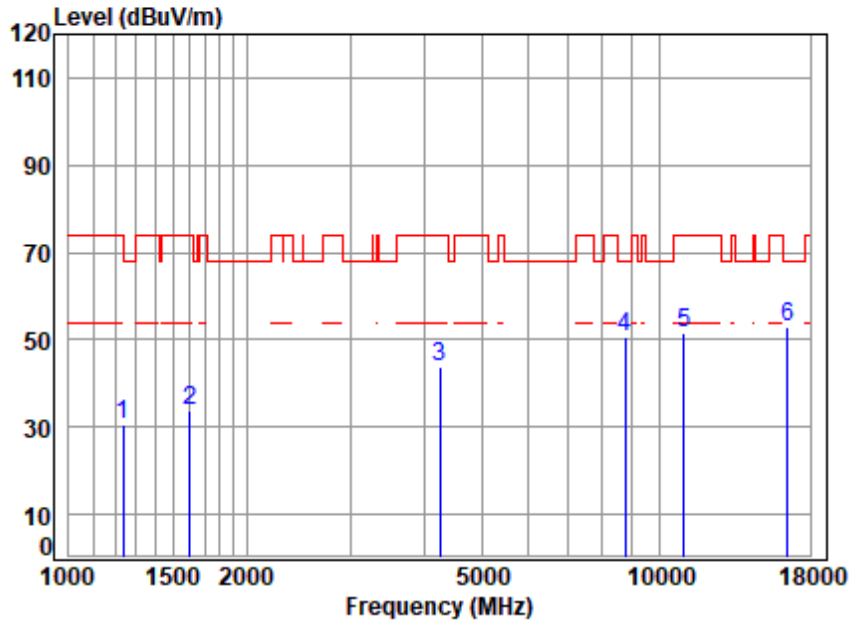


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Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5745 TX RSE
Note : 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	1234.909	2.86	24.47	37.61	41.04	30.76	74.00	-43.24	peak
2	1601.804	3.37	26.51	36.63	40.73	33.98	74.00	-40.02	peak
3	4254.921	6.54	33.60	34.51	38.28	43.91	74.00	-30.09	peak
4	8738.852	9.90	36.70	35.65	39.48	50.43	68.20	-17.77	peak
5	11000.000	11.26	37.70	36.00	38.69	51.65	74.00	-22.35	peak
6	16500.000	14.16	42.40	37.56	33.94	52.94	68.20	-15.26	peak



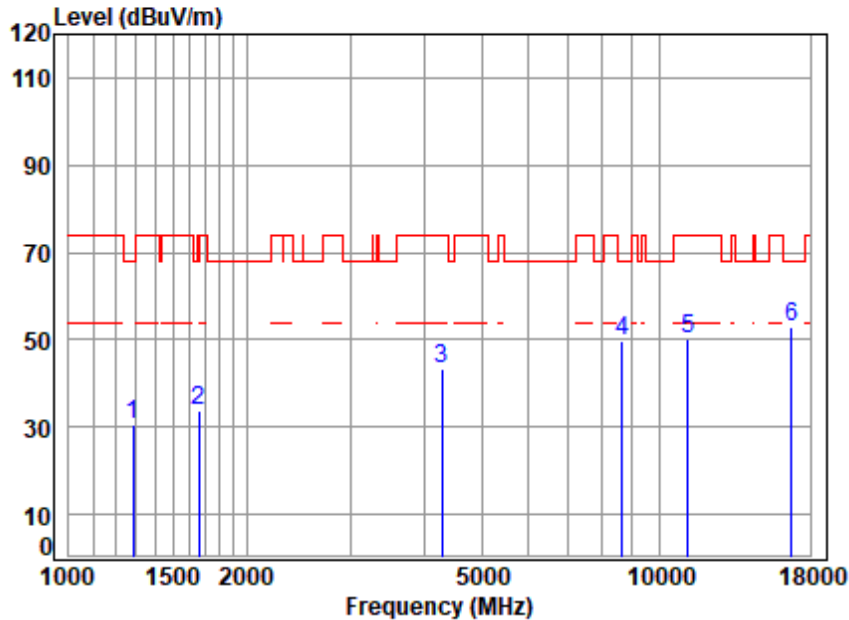
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Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5785 TX RSE
Note : 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	1285.904	2.94	24.64	37.45	40.53	30.66	68.20	-37.54	peak
2	1663.137	3.45	26.73	36.48	40.14	33.84	74.00	-40.16	peak
3	4279.589	6.56	33.60	34.53	37.52	43.15	74.00	-30.85	peak
4	8663.404	9.84	36.63	35.69	38.95	49.73	68.20	-18.47	peak
5	11160.000	11.36	37.80	36.10	37.35	50.41	74.00	-23.59	peak
6	q16740.000	14.16	42.80	37.52	33.47	52.91	68.20	-15.29	peak



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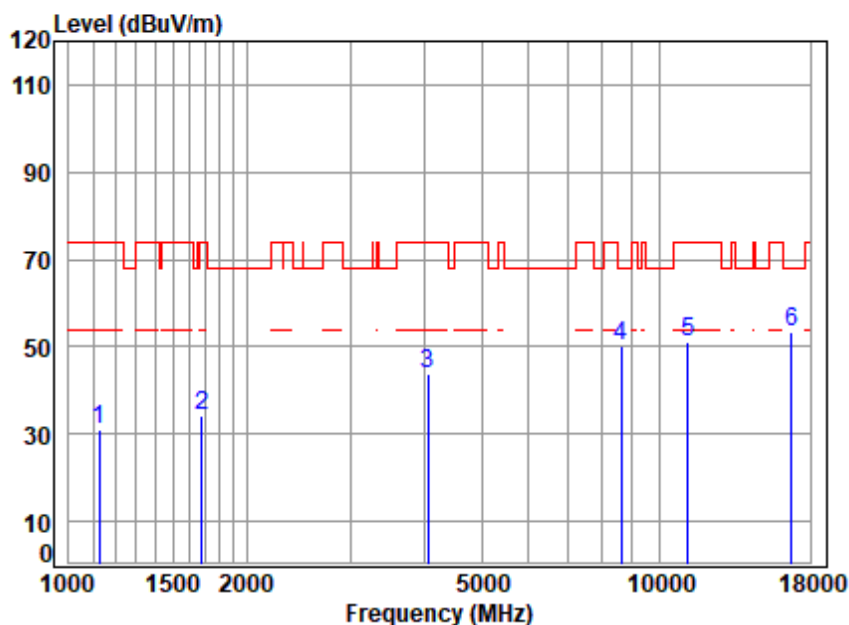
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300073605

Page: 136 of 240

Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5785 TX RSE
Note : 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	1125.813	2.67	24.10	37.95	42.18	31.00	74.00	-43.00	peak
2	1682.477	3.47	26.77	36.44	40.28	34.08	74.00	-39.92	peak
3	4050.904	6.33	32.90	34.37	38.91	43.77	74.00	-30.23	peak
4	8613.468	9.79	36.60	35.72	39.63	50.30	68.20	-17.90	peak
5	11160.000	11.36	37.80	36.10	38.07	51.13	74.00	-22.87	peak
6	16740.000	14.16	42.80	37.52	33.92	53.36	68.20	-14.84	peak



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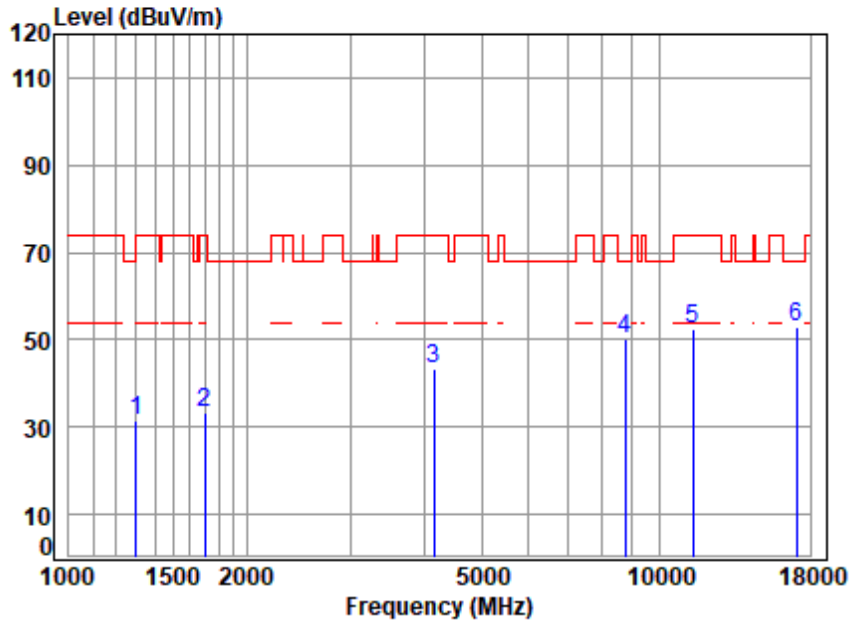
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300073605

Page: 137 of 240

Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5825 TX RSE
Note : 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	1300.858	2.96	24.70	37.41	41.07	31.32	74.00	-42.68	peak
2	1697.129	3.49	26.79	36.41	39.38	33.25	74.00	-40.75	peak
3	4145.664	6.43	33.09	34.43	38.30	43.39	74.00	-30.61	peak
4	8738.852	9.90	36.70	35.65	39.22	50.17	68.20	-18.03	peak
5	11400.000	11.52	37.90	36.24	39.25	52.43	74.00	-21.57	peak
6	17100.000	14.17	43.10	37.47	33.05	52.85	68.20	-15.35	peak

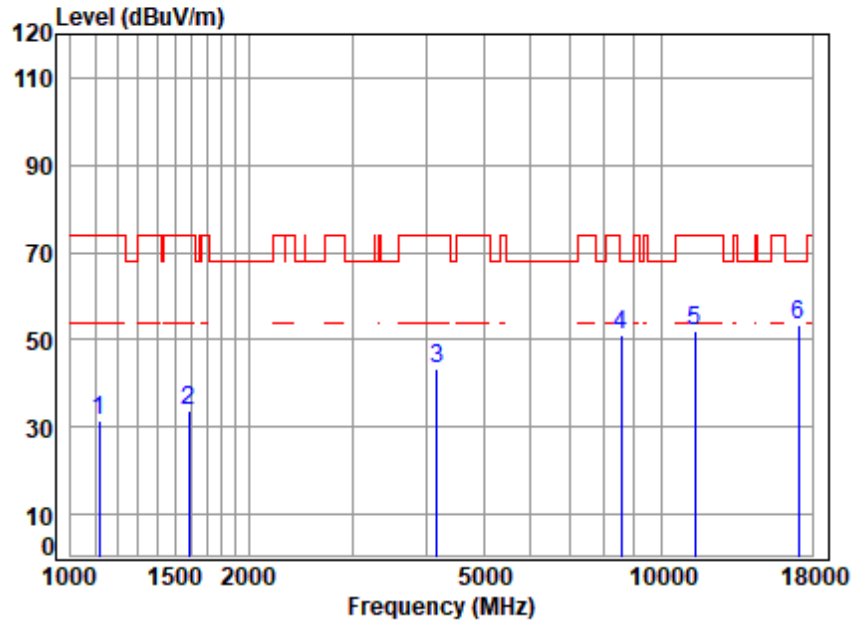


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Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5825 TX RSE
Note : 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	1116.093	2.66	24.07	37.99	42.73	31.47	74.00	-42.53	peak
2	1583.392	3.35	26.30	36.67	40.80	33.78	74.00	-40.22	peak
3	4169.698	6.45	33.22	34.45	38.11	43.33	74.00	-30.67	peak
4	8563.818	9.75	36.53	35.75	40.65	51.18	68.20	-17.02	peak
5	11400.000	11.52	37.90	36.24	38.62	51.80	74.00	-22.20	peak
6	17100.000	14.17	43.10	37.47	33.51	53.31	68.20	-14.89	peak

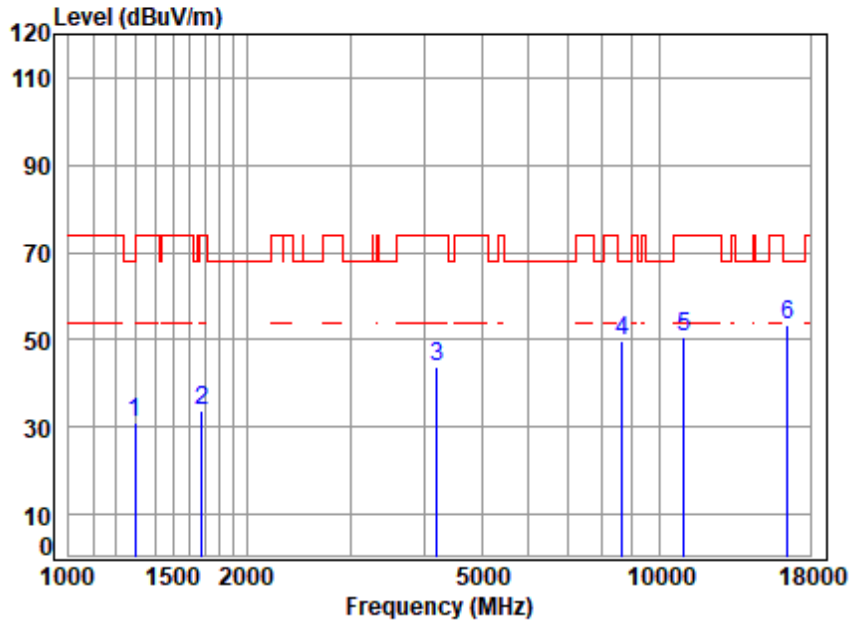


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Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5745 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	1293.359	2.95	24.67	37.43	40.98	31.17	68.20	-37.03	peak
2	1677.621	3.46	26.76	36.45	39.86	33.63	74.00	-40.37	peak
3	4193.872	6.48	33.36	34.47	38.49	43.86	74.00	-30.14	peak
4	8663.404	9.84	36.63	35.69	39.17	49.95	68.20	-18.25	peak
5	11000.000	11.26	37.70	36.00	37.89	50.85	74.00	-23.15	peak
6	q16500.000	14.16	42.40	37.56	34.43	53.43	68.20	-14.77	peak

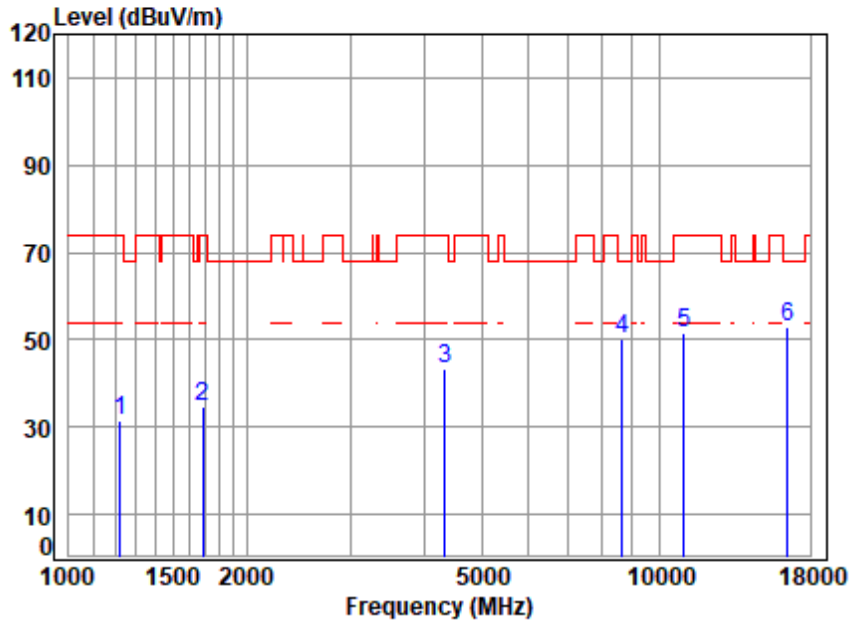


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Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5745 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	1224.247	2.84	24.45	37.64	41.62	31.27	74.00	-42.73	peak
2	1687.347	3.47	26.77	36.43	40.78	34.59	74.00	-39.41	peak
3	4329.354	6.61	33.60	34.56	37.76	43.41	74.00	-30.59	peak
4	8663.404	9.84	36.63	35.69	39.61	50.39	68.20	-17.81	peak
5	11000.000	11.26	37.70	36.00	38.69	51.65	74.00	-22.35	peak
6	q16500.000	14.16	42.40	37.56	33.74	52.74	68.20	-15.46	peak

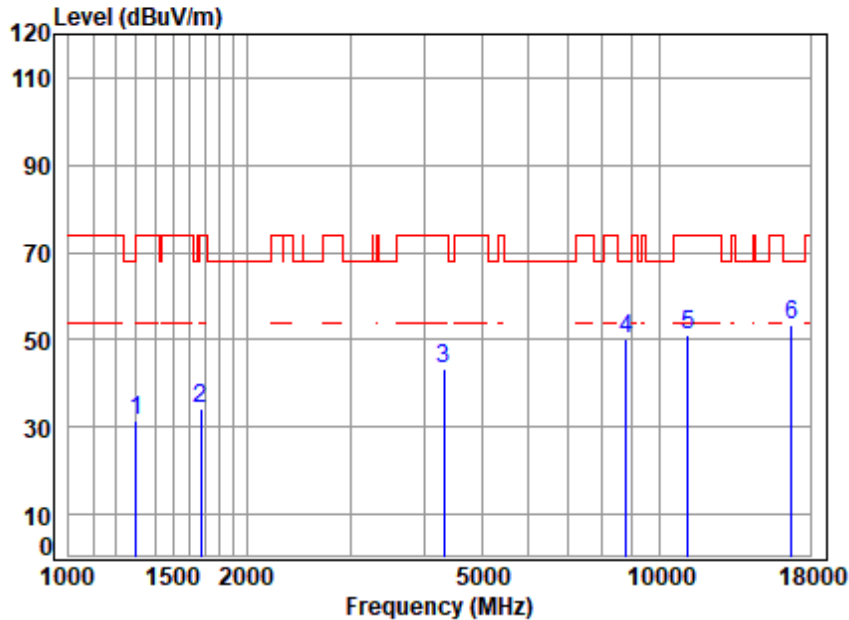


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Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5785 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	1300.858	2.96	24.70	37.41	41.03	31.28	74.00	-42.72	peak
2	1672.779	3.46	26.75	36.46	40.59	34.34	74.00	-39.66	peak
3	4316.859	6.60	33.60	34.55	37.63	43.28	74.00	-30.72	peak
4	8789.516	9.95	36.70	35.62	39.23	50.26	68.20	-17.94	peak
5	11160.000	11.36	37.80	36.10	37.91	50.97	74.00	-23.03	peak
6	q16740.000	14.16	42.80	37.52	34.14	53.58	68.20	-14.62	peak

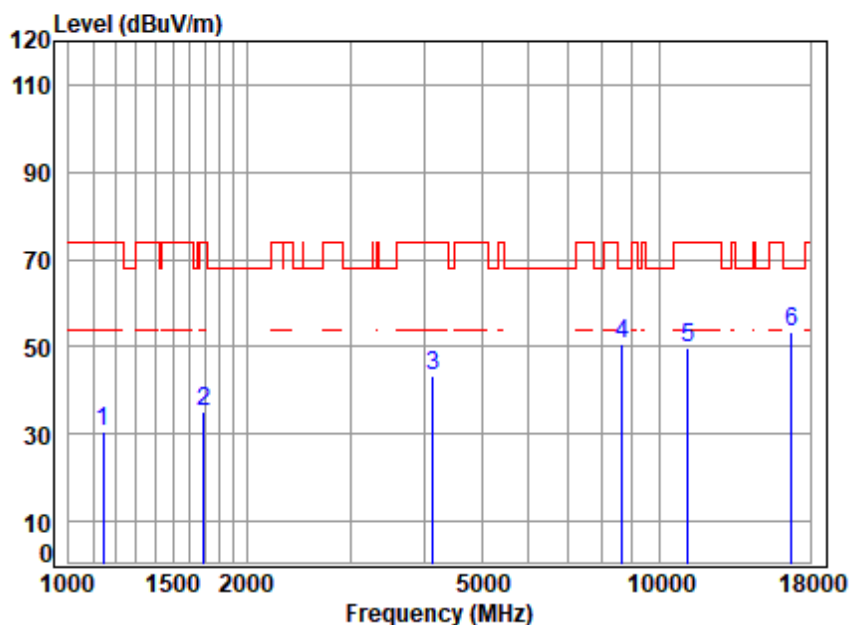


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Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5785 TX RSE
Note : 5G WIFI 11N20

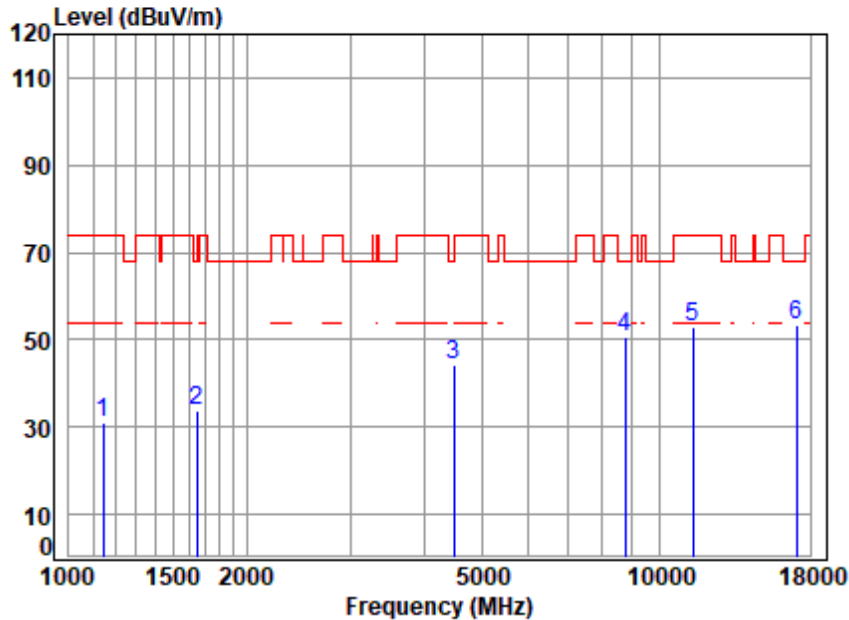
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1142.201	2.70	24.17	37.90	41.79	30.76	74.00	-43.24	peak
2	1692.231	3.48	26.78	36.42	41.42	35.26	74.00	-38.74	peak
3	4133.699	6.42	33.07	34.43	38.20	43.26	74.00	-30.74	peak
4	8663.404	9.84	36.63	35.69	39.98	50.76	68.20	-17.44	peak
5	11160.000	11.36	37.80	36.10	36.73	49.79	74.00	-24.21	peak
6	q16740.000	14.16	42.80	37.52	33.73	53.17	68.20	-15.03	peak



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Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5825 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	1142.201	2.70	24.17	37.90	42.20	31.17	74.00	-42.83	peak
2	1648.778	3.43	26.70	36.52	40.14	33.75	68.20	-34.45	peak
3	4482.150	6.75	33.50	34.66	38.84	44.43	68.20	-23.77	peak
4	8738.852	9.90	36.70	35.65	39.67	50.62	68.20	-17.58	peak
5	11400.000	11.52	37.90	36.24	39.58	52.76	74.00	-21.24	peak
6	17100.000	14.17	43.10	37.47	33.76	53.56	68.20	-14.64	peak

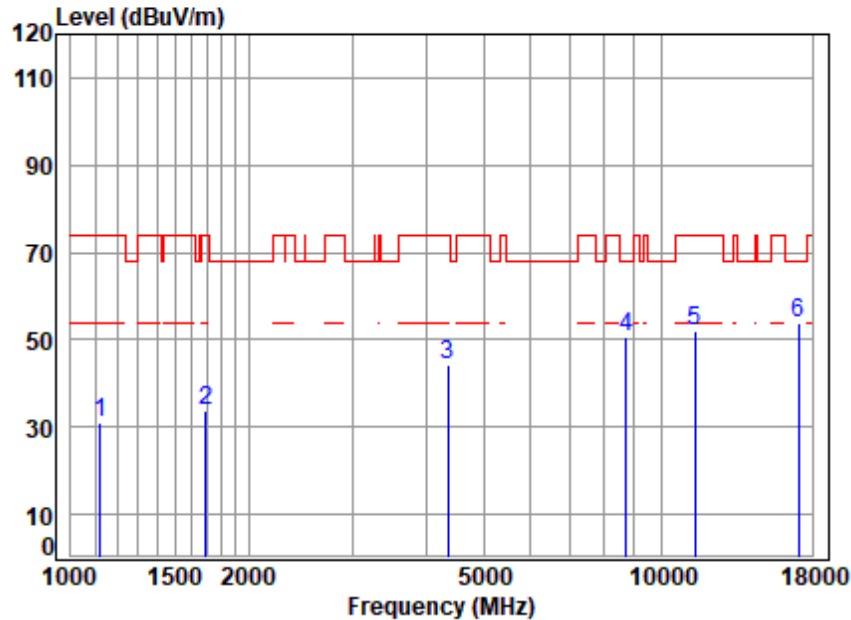


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Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5825 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	1122.563	2.67	24.09	37.96	42.12	30.92	74.00	-43.08	peak
2	1692.231	3.48	26.78	36.42	39.91	33.75	74.00	-40.25	peak
3	4354.454	6.63	33.59	34.58	38.46	44.10	74.00	-29.90	peak
4	8713.630	9.88	36.70	35.66	39.52	50.44	68.20	-17.76	peak
5	11400.000	11.52	37.90	36.24	38.80	51.98	74.00	-22.02	peak
6	q17100.000	14.17	43.10	37.47	33.95	53.75	68.20	-14.45	peak

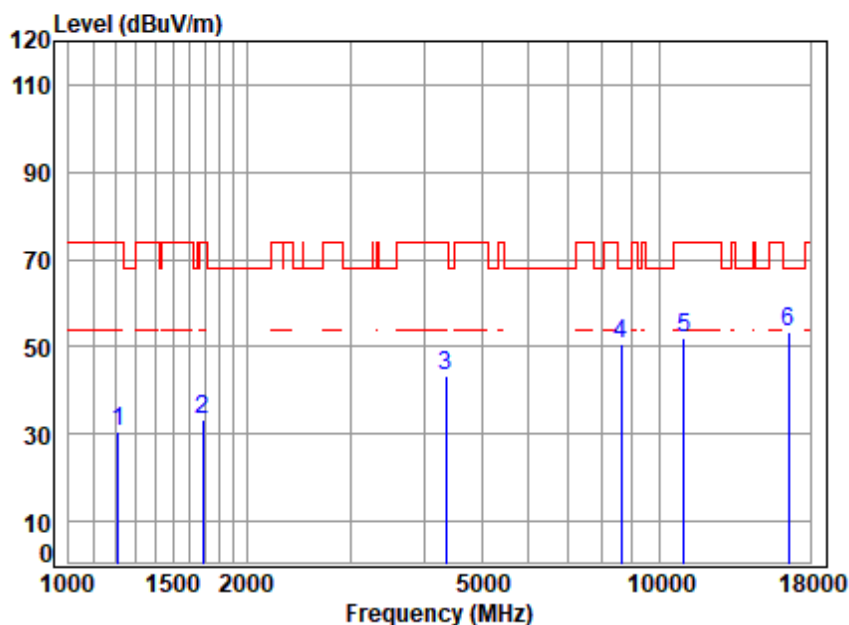


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Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5755 TX RSE
Note : 5G WIFI 11N40

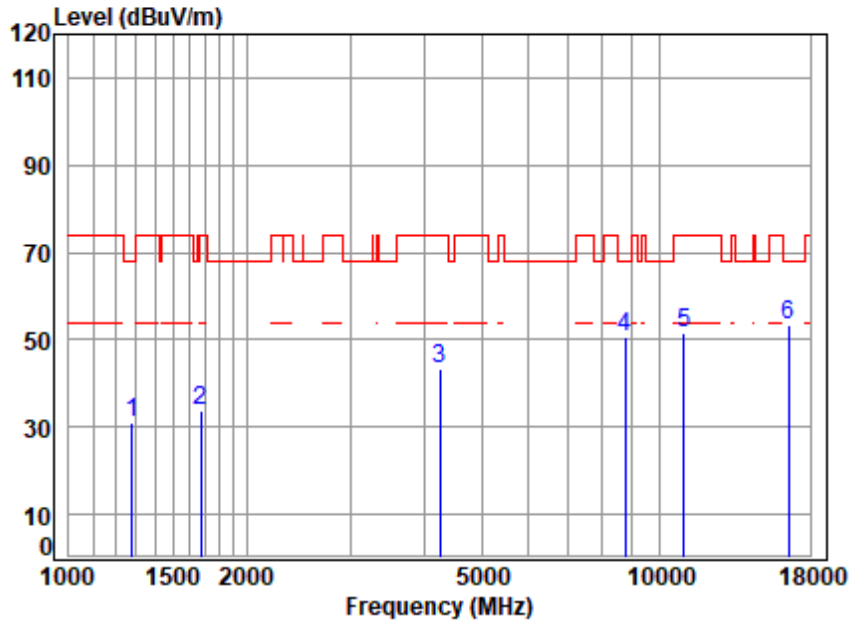
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1213.677	2.82	24.43	37.67	40.98	30.56	74.00	-43.44	peak
2	1687.347	3.47	26.77	36.43	39.35	33.16	74.00	-40.84	peak
3	4354.454	6.63	33.59	34.58	37.89	43.53	74.00	-30.47	peak
4	8613.468	9.79	36.60	35.72	39.81	50.48	68.20	-17.72	peak
5	11020.000	11.27	37.72	36.01	38.99	51.97	74.00	-22.03	peak
6	q16530.000	14.16	42.43	37.56	34.44	53.47	68.20	-14.73	peak



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Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5755 TX RSE
Note : 5G WIFI 11N40

		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	1282.193	2.93	24.63	37.46	41.04	31.14	68.20	-37.06	peak
2	1672.779	3.46	26.75	36.46	40.03	33.78	74.00	-40.22	peak
3	4254.921	6.54	33.60	34.51	37.84	43.47	74.00	-30.53	peak
4	8764.146	9.92	36.70	35.63	39.79	50.78	68.20	-17.42	peak
5	11020.000	11.27	37.72	36.01	38.57	51.55	74.00	-22.45	peak
6	16530.000	14.16	42.43	37.56	34.38	53.41	68.20	-14.79	peak



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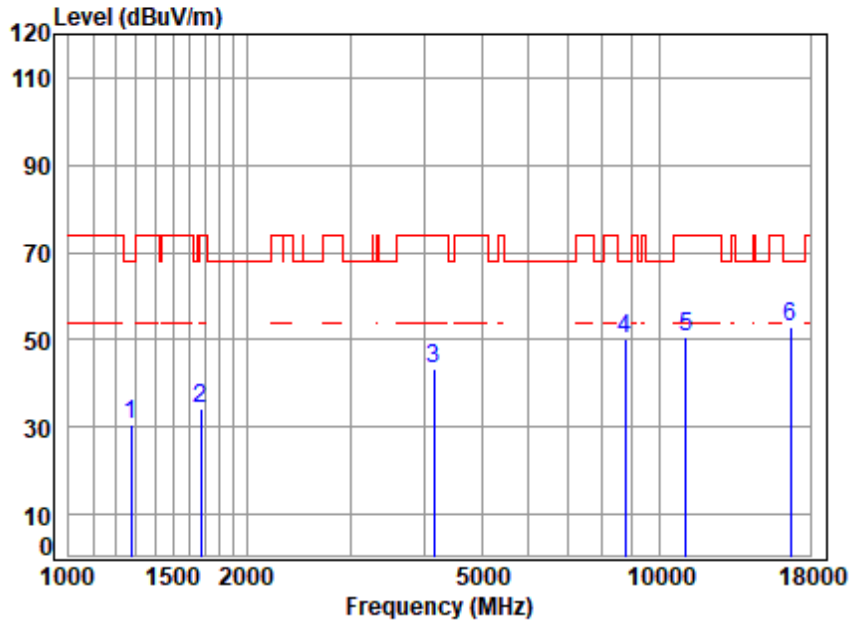
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300073605

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Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5795 TX RSE
Note : 5G WIFI 11N40

		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	1274.802	2.92	24.60	37.49	40.51	30.54	68.20	-37.66	peak
2	1672.779	3.46	26.75	36.46	40.48	34.23	74.00	-39.77	peak
3	4157.664	6.44	33.15	34.44	38.35	43.50	74.00	-30.50	peak
4	8764.146	9.92	36.70	35.63	39.01	50.00	68.20	-18.20	peak
5	11100.000	11.33	37.80	36.06	37.45	50.52	74.00	-23.48	peak
6	16650.000	14.16	42.65	37.54	33.58	52.85	68.20	-15.35	peak

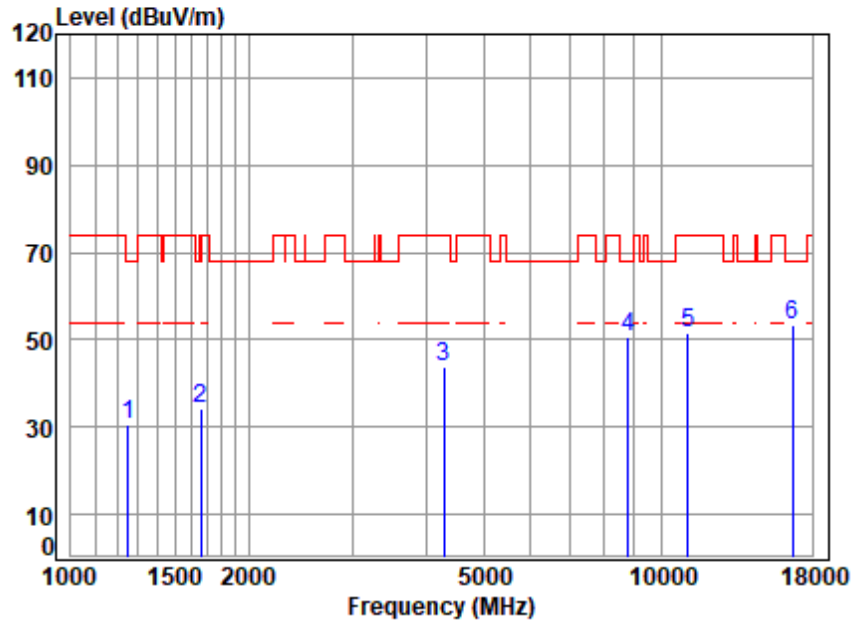


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Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5795 TX RSE
Note : 5G WIFI 11N40

		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	1252.885	2.89	24.51	37.55	40.90	30.75	68.20	-37.45	peak
2	1663.137	3.45	26.73	36.48	40.30	34.00	74.00	-40.00	peak
3	4279.589	6.56	33.60	34.53	38.21	43.84	74.00	-30.16	peak
4	8789.516	9.95	36.70	35.62	39.76	50.79	68.20	-17.41	peak
5	11100.000	11.33	37.80	36.06	38.44	51.51	74.00	-22.49	peak
6	q16650.000	14.16	42.65	37.54	34.08	53.35	68.20	-14.85	peak

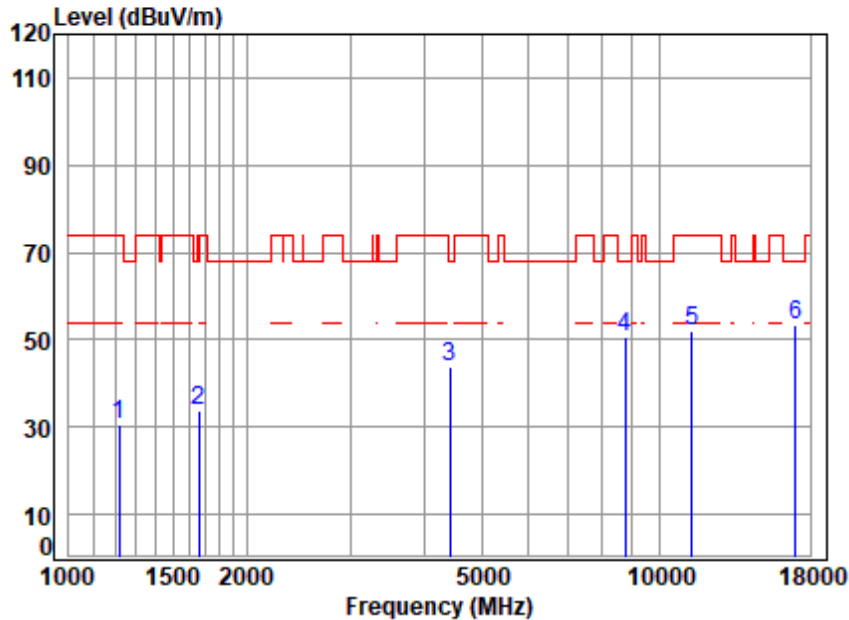


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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5745 TX RSE
Note : 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	1217.190	2.83	24.43	37.66	40.92	30.52	74.00	-43.48	peak
2	1663.137	3.45	26.73	36.48	39.96	33.66	74.00	-40.34	peak
3	4417.841	6.69	33.50	34.62	38.01	43.58	68.20	-24.62	peak
4	8764.146	9.92	36.70	35.63	39.72	50.71	68.20	-17.49	peak
5	11340.000	11.48	37.84	36.20	38.68	51.80	74.00	-22.20	peak
6	q17101.000	14.16	42.92	37.48	33.73	53.33	68.20	-14.87	peak



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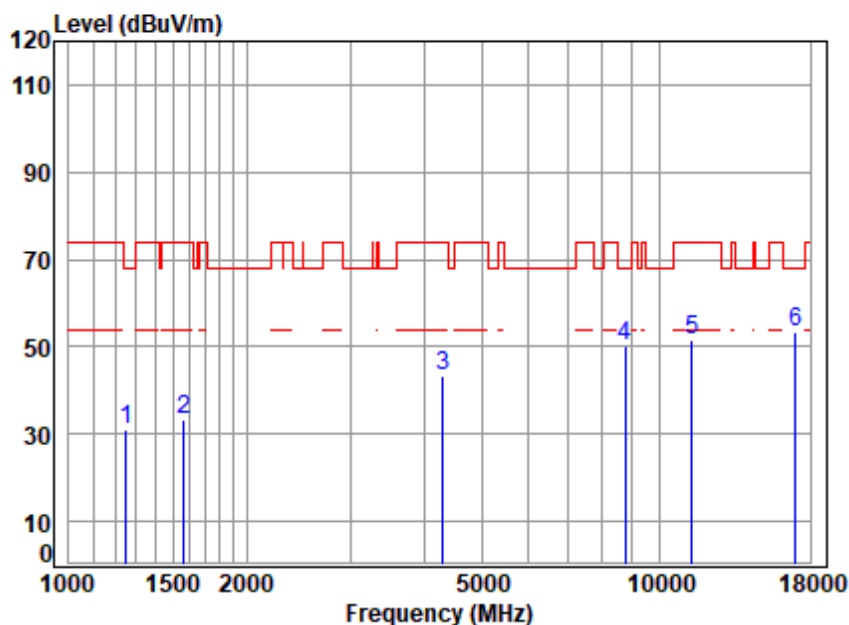
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300073605

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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5745 TX RSE
Note : 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	1249.269	2.88	24.50	37.56	41.32	31.14	68.20	-37.06	peak
2	1569.721	3.33	26.14	36.70	40.63	33.40	74.00	-40.60	peak
3	4304.400	6.59	33.60	34.54	37.83	43.48	74.00	-30.52	peak
4	8738.852	9.90	36.70	35.65	39.35	50.30	68.20	-17.90	peak
5	11340.000	11.48	37.84	36.20	38.54	51.66	74.00	-22.34	peak
6	q17101.000	14.16	42.92	37.48	33.77	53.37	68.20	-14.83	peak

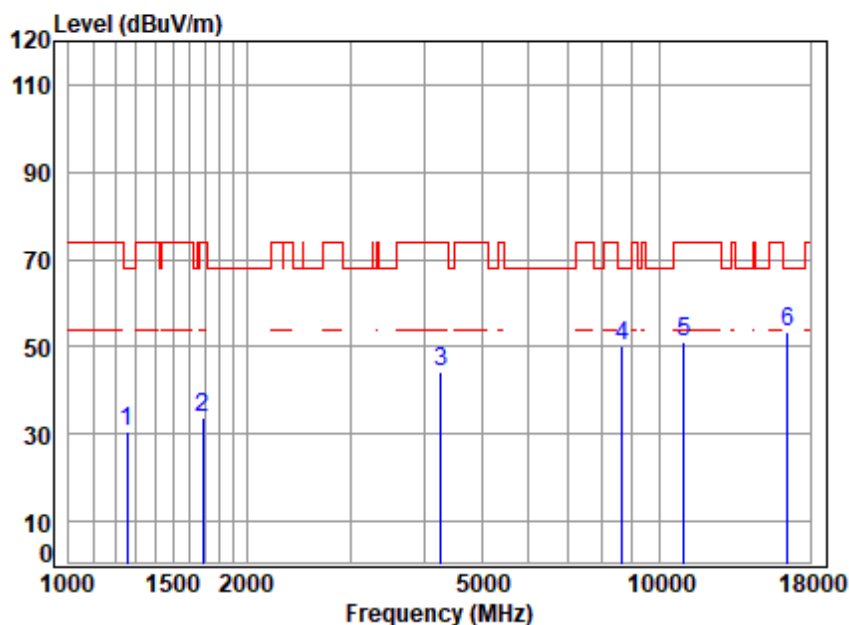


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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5785 TX RSE
Note : 5G WIFI 11AC20

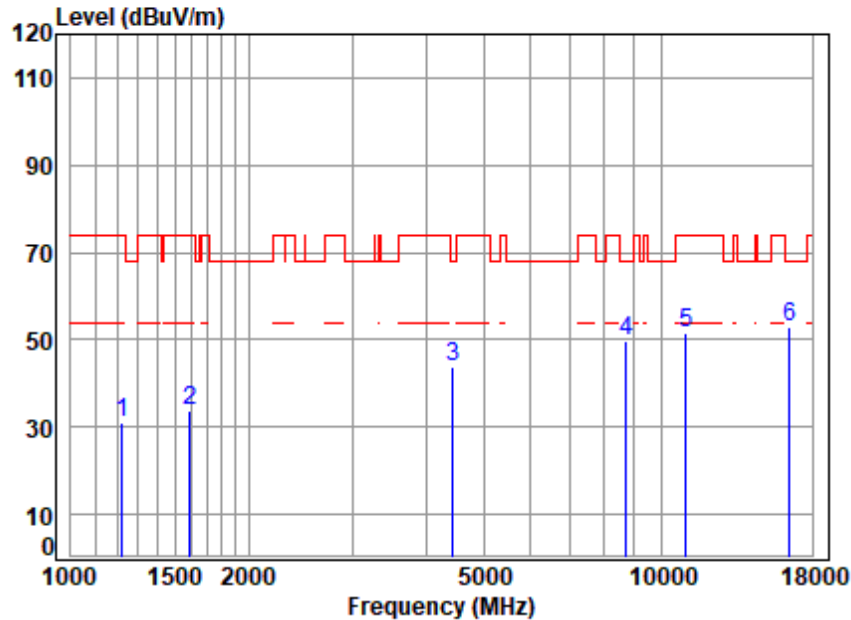
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	2.89	24.53	37.54	40.66	30.54	68.20	-37.66	peak
2	1687.347	3.47	26.77	36.43	39.95	33.76	74.00	-40.24	peak
3	4267.237	6.55	33.60	34.52	38.81	44.44	74.00	-29.56	peak
4	8638.399	9.81	36.60	35.71	39.33	50.03	68.20	-18.17	peak
5	11000.000	11.26	37.70	36.00	38.08	51.04	74.00	-22.96	peak
6	q16500.000	14.16	42.40	37.56	34.35	53.35	68.20	-14.85	peak



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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5785 TX RSE
Note : 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	1220.714	2.83	24.44	37.65	41.42	31.04	74.00	-42.96	peak
2	1592.571	3.36	26.41	36.65	40.70	33.82	74.00	-40.18	peak
3	4430.628	6.71	33.50	34.63	38.40	43.98	68.20	-24.22	peak
4	8713.630	9.88	36.70	35.66	38.76	49.68	68.20	-18.52	peak
5	11000.000	11.26	37.70	36.00	38.62	51.58	74.00	-22.42	peak
6	q16500.000	14.16	42.40	37.56	33.93	52.93	68.20	-15.27	peak

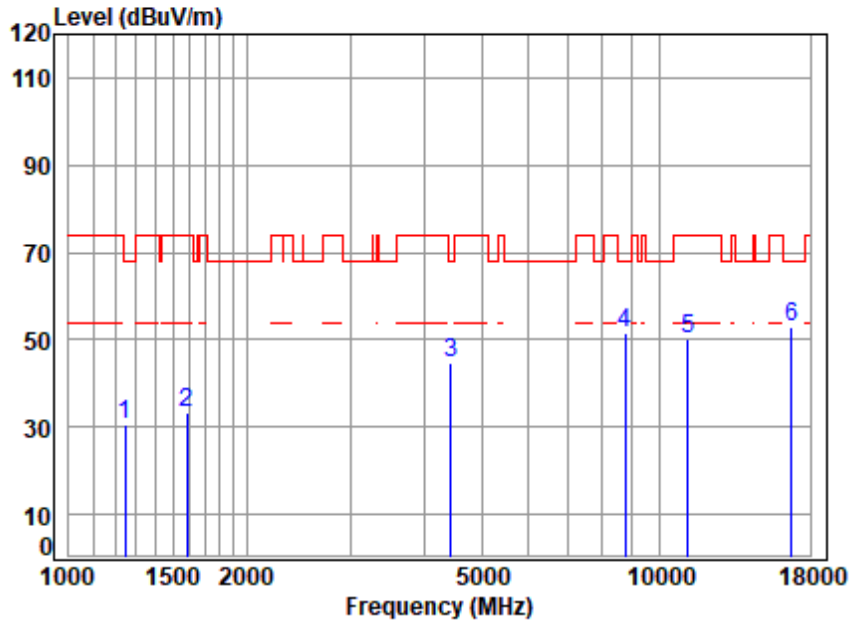


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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel: High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00736at/00737at
 Mode : 5825 TX RSE
 Note : 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	1245.663	2.87	24.49	37.57	40.58	30.37	68.20	-37.83	peak
2	1583.392	3.35	26.30	36.67	40.50	33.48	74.00	-40.52	peak
3	4430.628	6.71	33.50	34.63	38.96	44.54	68.20	-23.66	peak
4	8764.146	9.92	36.70	35.63	40.36	51.35	68.20	-16.85	peak
5	11160.000	11.36	37.80	36.10	37.03	50.09	74.00	-23.91	peak
6	16740.000	14.16	42.80	37.52	33.58	53.02	68.20	-15.18	peak



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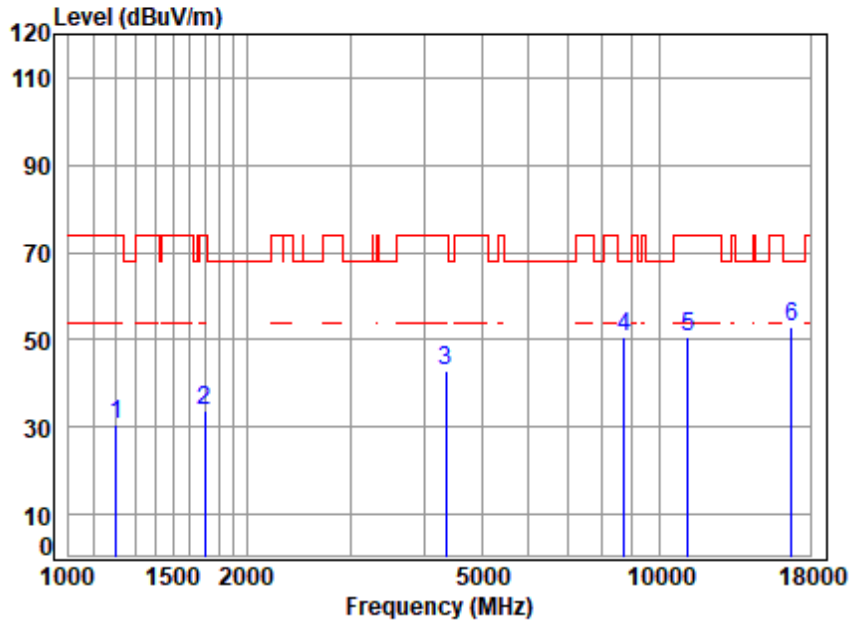
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5825 TX RSE
Note : 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	1203.199	2.81	24.41	37.70	41.24	30.76	74.00	-43.24	peak
2	1702.042	3.49	26.80	36.40	39.89	33.78	74.00	-40.22	peak
3	4354.454	6.63	33.59	34.58	37.36	43.00	74.00	-31.00	peak
4	8713.630	9.88	36.70	35.66	39.50	50.42	68.20	-17.78	peak
5	11160.000	11.36	37.80	36.10	37.44	50.50	74.00	-23.50	peak
6	q16740.000	14.16	42.80	37.52	33.64	53.08	68.20	-15.12	peak

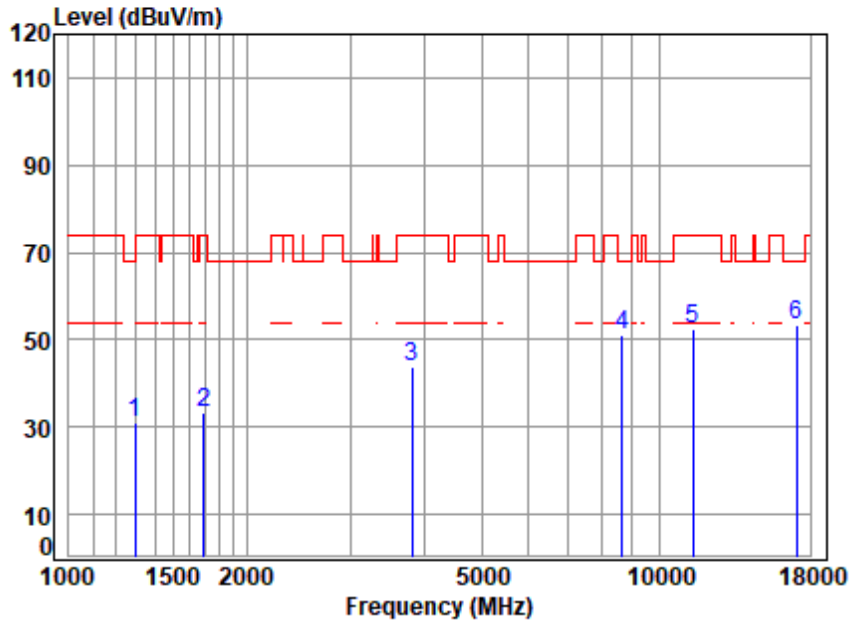


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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5755 TX RSE
Note : 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	1297.103	2.95	24.69	37.42	40.90	31.12	68.20	-37.08	peak
2	1692.231	3.48	26.78	36.42	39.69	33.53	74.00	-40.47	peak
3	3812.336	6.03	32.78	34.52	39.43	43.72	74.00	-30.28	peak
4	8663.404	9.84	36.63	35.69	40.20	50.98	68.20	-17.22	peak
5	11400.000	11.52	37.90	36.24	39.36	52.54	74.00	-21.46	peak
6	q17100.000	14.17	43.10	37.47	33.75	53.55	68.20	-14.65	peak

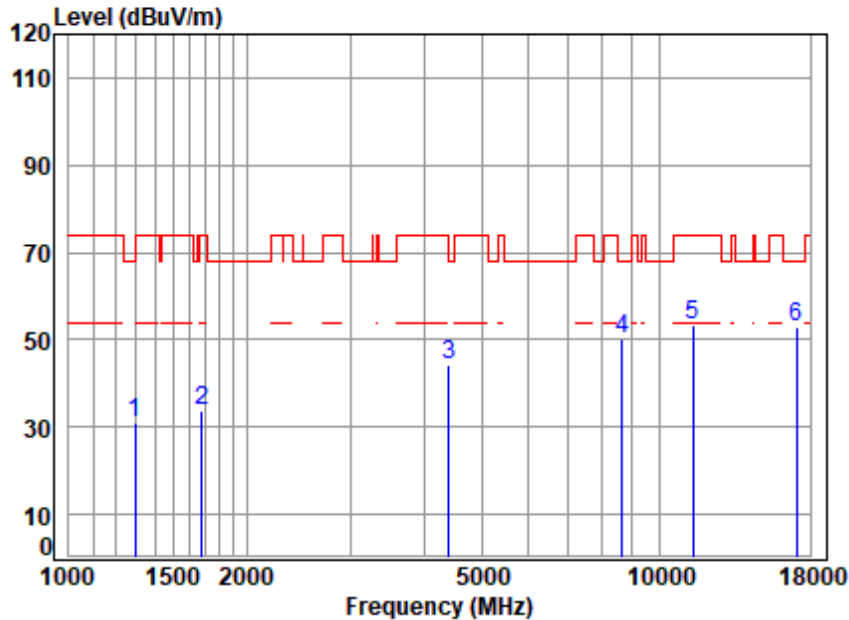


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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5755 TX RSE
Note : 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	1293.359	2.95	24.67	37.43	41.06	31.25	68.20	-36.95	peak
2	1677.621	3.46	26.76	36.45	39.89	33.66	74.00	-40.34	peak
3	4405.090	6.68	33.50	34.61	38.57	44.14	68.20	-24.06	peak
4	8638.399	9.81	36.60	35.71	39.44	50.14	68.20	-18.06	peak
5	11400.000	11.52	37.90	36.24	40.03	53.21	74.00	-20.79	peak
6	17100.000	14.17	43.10	37.47	33.23	53.03	68.20	-15.17	peak

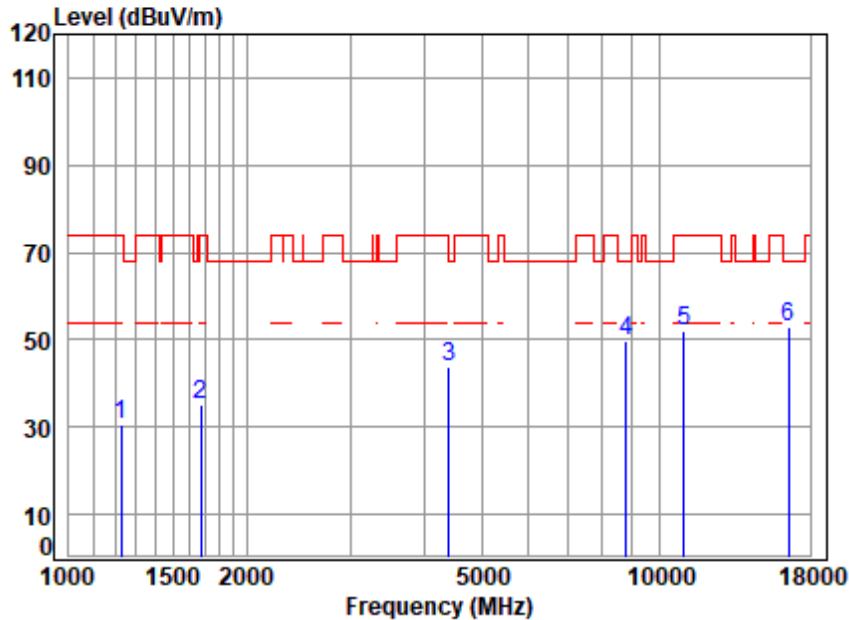


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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5795 TX RSE
Note : 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	1227.791	2.85	24.46	37.63	41.07	30.75	74.00	-43.25	peak
2	1672.779	3.46	26.75	36.46	41.20	34.95	74.00	-39.05	peak
3	4405.090	6.68	33.50	34.61	38.18	43.75	68.20	-24.45	peak
4	8789.516	9.95	36.70	35.62	38.80	49.83	68.20	-18.37	peak
5	11020.000	11.27	37.72	36.01	39.11	52.09	74.00	-21.91	peak
6	16530.000	14.16	42.43	37.56	34.05	53.08	68.20	-15.12	peak

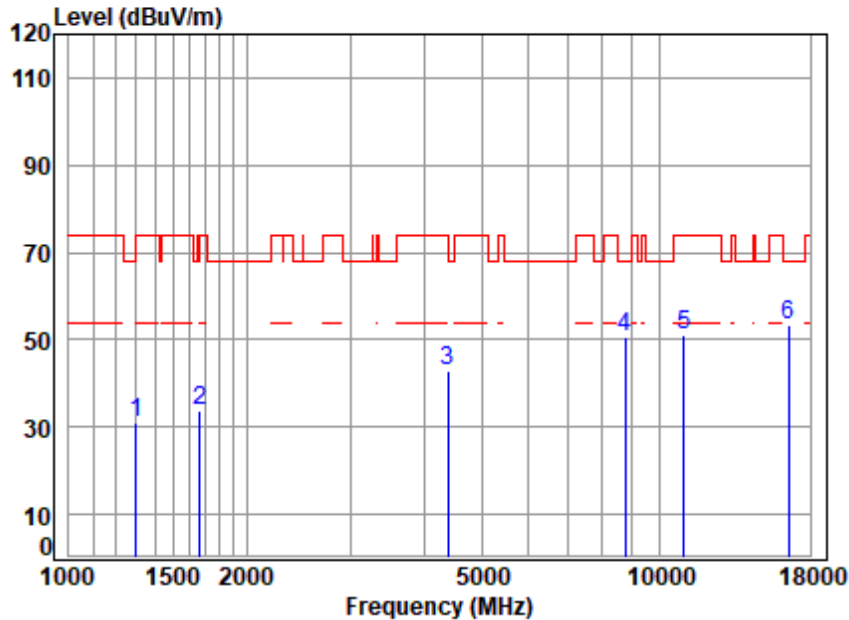


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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5795 TX RSE
Note : 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	1300.858	2.96	24.70	37.41	40.56	30.81	74.00	-43.19	peak
2	1667.951	3.45	26.74	36.47	40.05	33.77	74.00	-40.23	peak
3	4392.376	6.67	33.52	34.60	37.52	43.11	74.00	-30.89	peak
4	8738.852	9.90	36.70	35.65	39.69	50.64	68.20	-17.56	peak
5	11020.000	11.27	37.72	36.01	38.20	51.18	74.00	-22.82	peak
6	q16530.000	14.16	42.43	37.56	34.30	53.33	68.20	-14.87	peak



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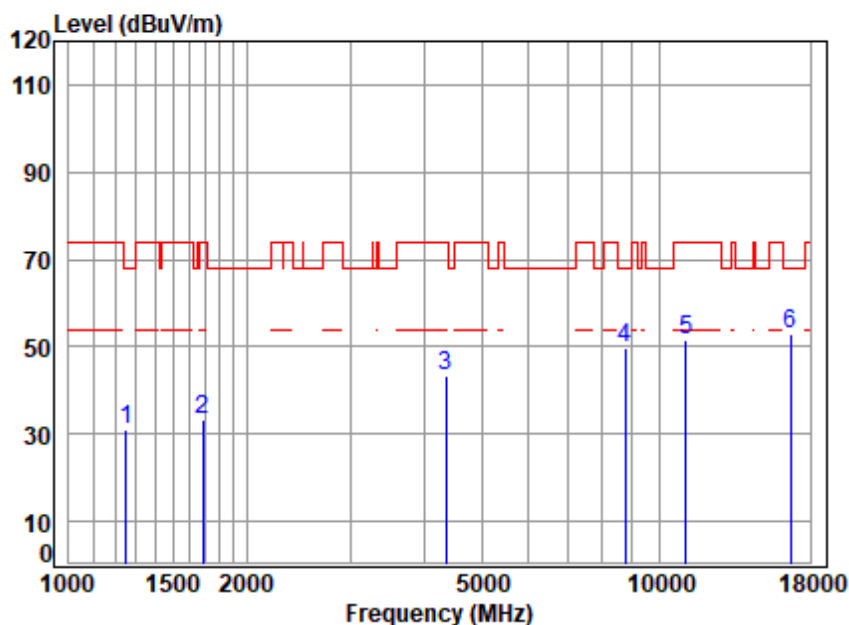
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300073605

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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736at/00737at
Mode : 5775 TX RSE
Note : 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	1252.885	2.89	24.51	37.55	41.38	31.23	68.20	-36.97	peak
2	1687.347	3.47	26.77	36.43	39.41	33.22	74.00	-40.78	peak
3	4354.454	6.63	33.59	34.58	37.70	43.34	74.00	-30.66	peak
4	8764.146	9.92	36.70	35.63	38.84	49.83	68.20	-18.37	peak
5	11100.000	11.33	37.80	36.06	38.62	51.69	74.00	-22.31	peak
6	q16650.000	14.16	42.65	37.54	33.81	53.08	68.20	-15.12	peak



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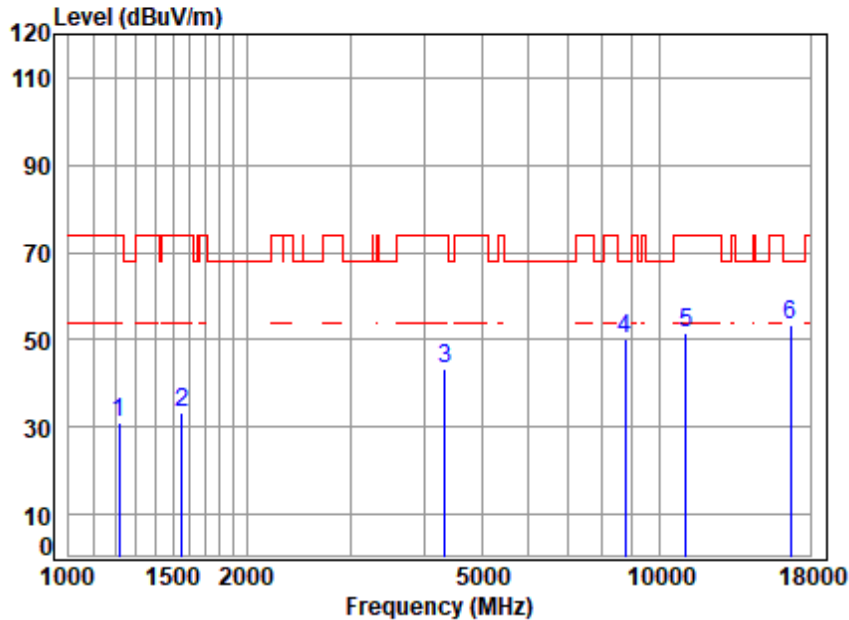
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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00736at/00737at
Mode : 5775 TX RSE
Note : 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	1217.190	2.83	24.43	37.66	41.39	30.99	74.00	-43.01	peak
2	1556.169	3.31	25.98	36.73	40.56	33.12	74.00	-40.88	peak
3	4341.886	6.62	33.60	34.57	37.73	43.38	74.00	-30.62	peak
4	8738.852	9.90	36.70	35.65	39.17	50.12	68.20	-18.08	peak
5	11100.000	11.33	37.80	36.06	38.57	51.64	74.00	-22.36	peak
6	16650.000	14.16	42.65	37.54	34.32	53.59	68.20	-14.61	peak



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7.10 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: 10m

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

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

Humidity: 52.5 % RH

Atmospheric Pressure: 1015 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	10	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



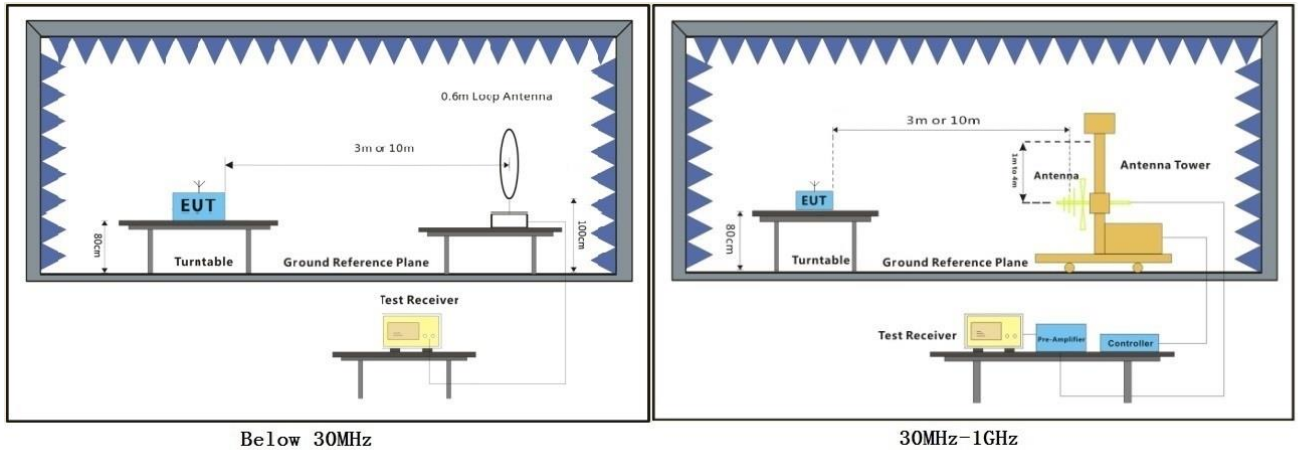
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Final test	11	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	12	Charge + TX mode (U-NII-3)_Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

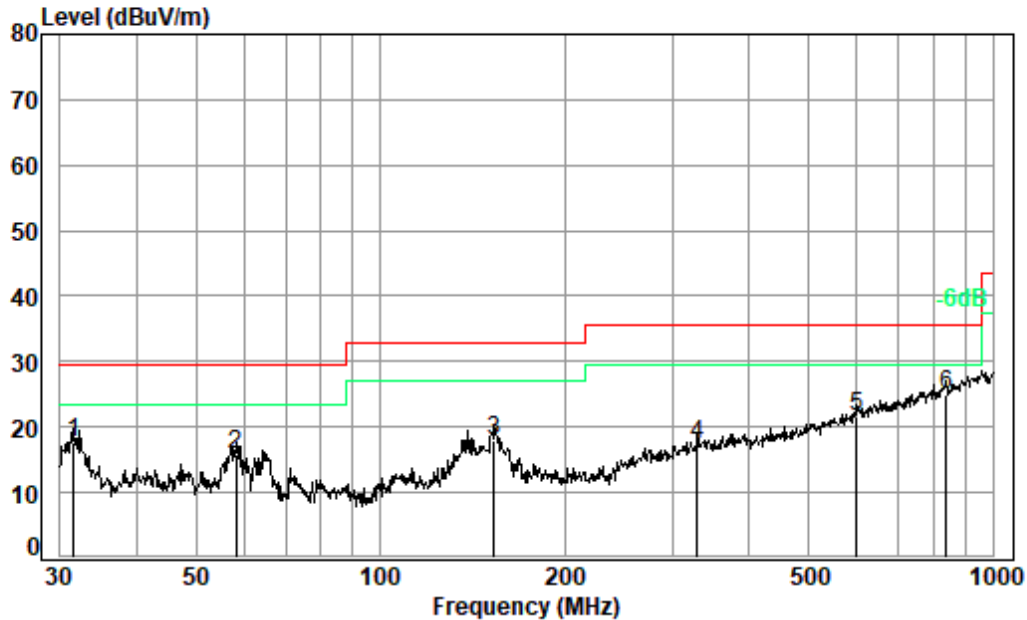
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, 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: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: middle



Condition: 10m HORIZONTAL
Job No. : 00736AT/00737AT
Test Mode: 11

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	31.620	33.28	16.27	0.67	32.46	17.76	29.50	-11.74	QP
2	58.203	30.27	17.24	0.65	32.40	15.76	29.50	-13.74	QP
3	153.200	31.55	17.83	1.02	32.40	18.00	33.00	-15.00	QP
4	329.039	29.82	18.39	1.49	32.40	17.30	35.60	-18.30	QP
5	599.321	28.08	23.90	2.03	32.50	21.51	35.60	-14.09	QP
6 pp	839.182	27.87	26.80	2.37	32.06	24.98	35.60	-10.62	QP

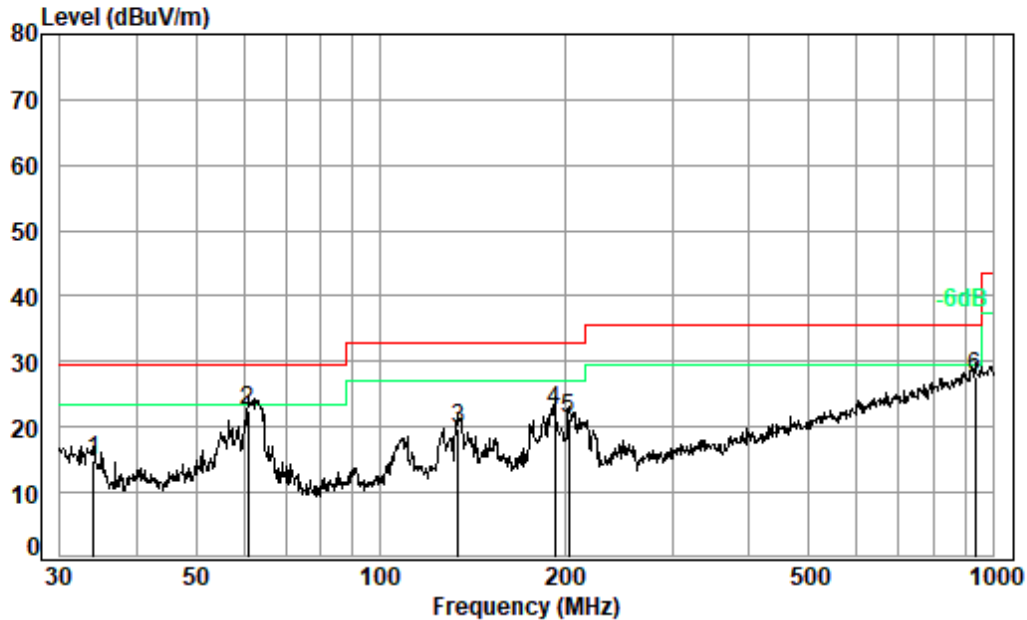


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Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: middle



Condition: 10m VERTICAL
Job No. : 00736AT/00737AT
Test Mode: 11

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	34.037	30.52	16.32	0.65	32.45	15.04	29.50	-14.46	QP
2	60.918	37.39	16.95	0.67	32.40	22.61	29.50	-6.89	QP
3	134.088	35.03	16.28	0.95	32.40	19.86	33.00	-13.14	QP
4	192.419	38.56	15.23	1.16	32.40	22.55	33.00	-10.45	QP
5	202.810	37.63	14.82	1.20	32.40	21.25	33.00	-11.75	QP
6	935.546	28.44	28.28	2.47	31.38	27.81	35.60	-7.79	QP



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$$L_3 / L_{10} = D_{10} / D_3$$

Note:

L₃: Level @ 3m distance. Unit: uV/m;

L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
31.620	17.76	7.73	25.76	28.22	40	-11.78	H
58.203	15.76	6.14	20.46	26.22	40	-13.78	H
153.200	18.00	7.94	26.48	28.46	43.5	-15.04	H
329.039	17.30	7.33	24.43	27.76	46	-18.24	H
599.321	21.51	11.90	39.66	31.97	46	-14.03	H
839.182	24.98	17.74	59.14	35.44	46	-10.56	H
34.037	15.04	5.65	18.83	25.50	40	-14.50	V
60.918	22.61	13.51	45.02	33.07	40	-6.93	V
134.088	19.86	9.84	32.80	30.32	43.5	-13.18	V
192.419	22.55	13.41	44.71	33.01	43.5	-10.49	V
202.810	21.25	11.55	38.49	31.71	43.5	-11.79	V
935.546	27.81	24.58	81.92	38.27	46	-7.73	V



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7.11 Frequency Stability

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

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

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 55.2 % RH Atmospheric Pressure: 1015 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	10	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.11.3 Test Setup Diagram

7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2303000736AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2303000736AT



10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.396	1.540	90.65	0.43	0.03
		5200	1.396	1.539	90.71	0.42	0.00
		5240	1.396	1.540	90.65	0.43	0.00
		5745	1.397	1.540	90.71	0.42	0.00
		5785	1.396	1.539	90.71	0.42	0.03
		5825	1.396	1.539	90.71	0.42	0.04
802.11n (HT20)	SISO	5180	1.309	1.452	90.15	0.45	0.03
		5200	1.309	1.452	90.15	0.45	0.03
		5240	1.308	1.452	90.08	0.45	0.03
		5745	1.308	1.452	90.08	0.45	0.03
		5785	1.309	1.452	90.15	0.45	0.03
		5825	1.308	1.451	90.14	0.45	0.03
802.11n (HT40)	SISO	5190	0.648	0.792	81.82	0.87	0.03
		5230	0.649	0.792	81.94	0.86	0.00
		5755	0.649	0.792	81.94	0.86	0.03
		5795	0.649	0.792	81.94	0.86	0.03
802.11ac (VHT20)	SISO	5180	1.317	1.460	90.21	0.45	0.03
		5200	1.316	1.460	90.14	0.45	0.03
		5240	1.317	1.460	90.21	0.45	0.03
		5745	1.317	1.460	90.21	0.45	0.03
		5785	1.317	1.461	90.14	0.45	0.07
		5825	1.317	1.460	90.21	0.45	0.03
802.11ac (VHT40)	SISO	5190	0.657	0.800	82.13	0.86	0.03
		5230	0.657	0.800	82.12	0.86	0.03
		5755	0.656	0.800	82.00	0.86	0.03
		5795	0.656	0.800	82.00	0.86	0.06
802.11ac (VHT80)	SISO	5210	0.325	0.467	69.59	1.57	0.07
		5775	0.331	0.467	70.88	1.49	0.13

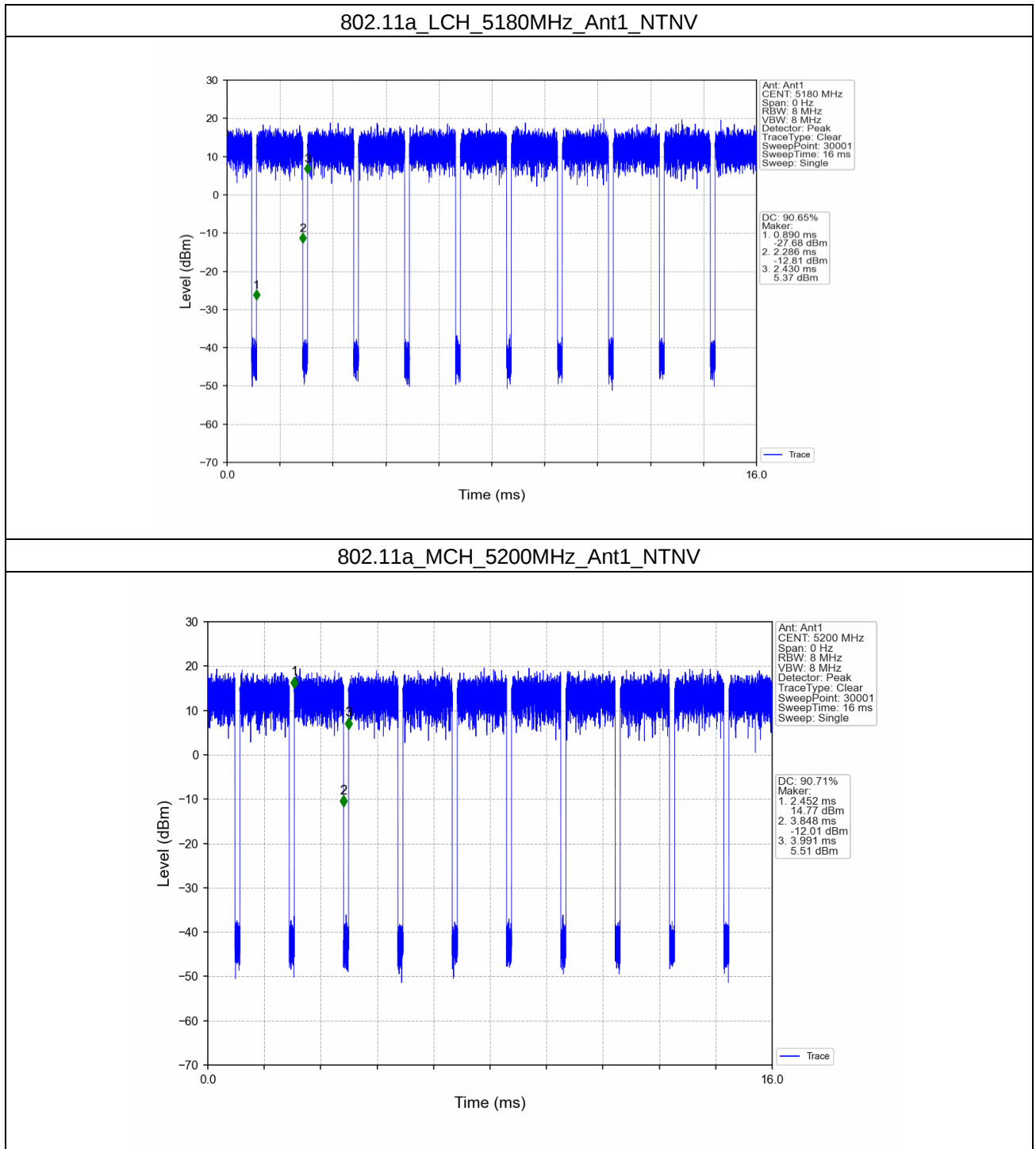


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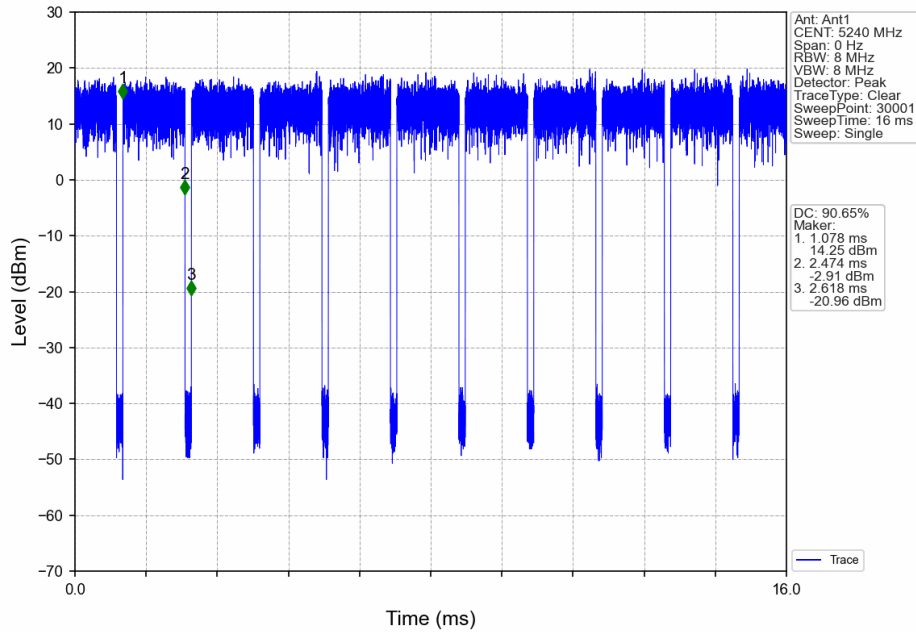
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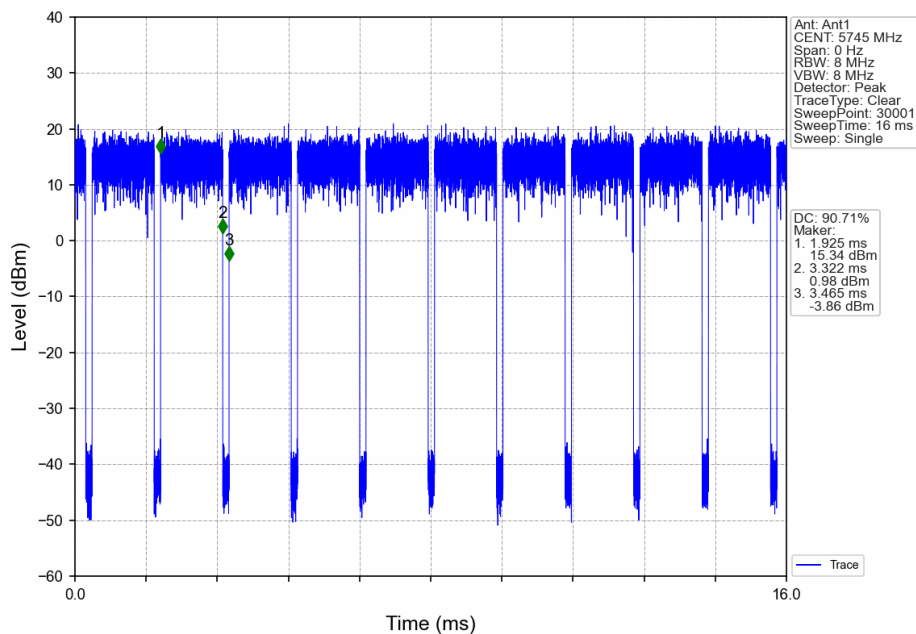
1.1.2 Test Graph



802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV

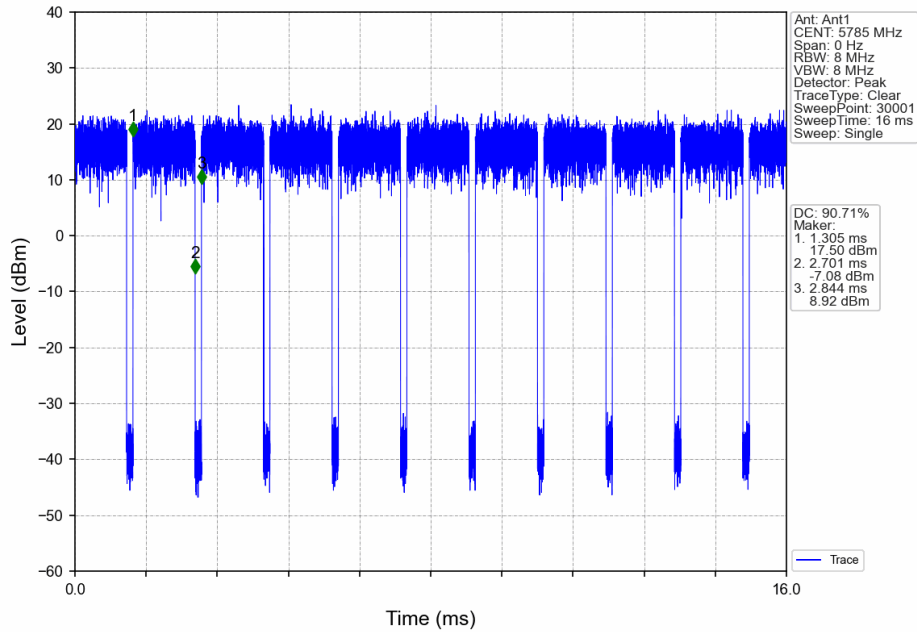


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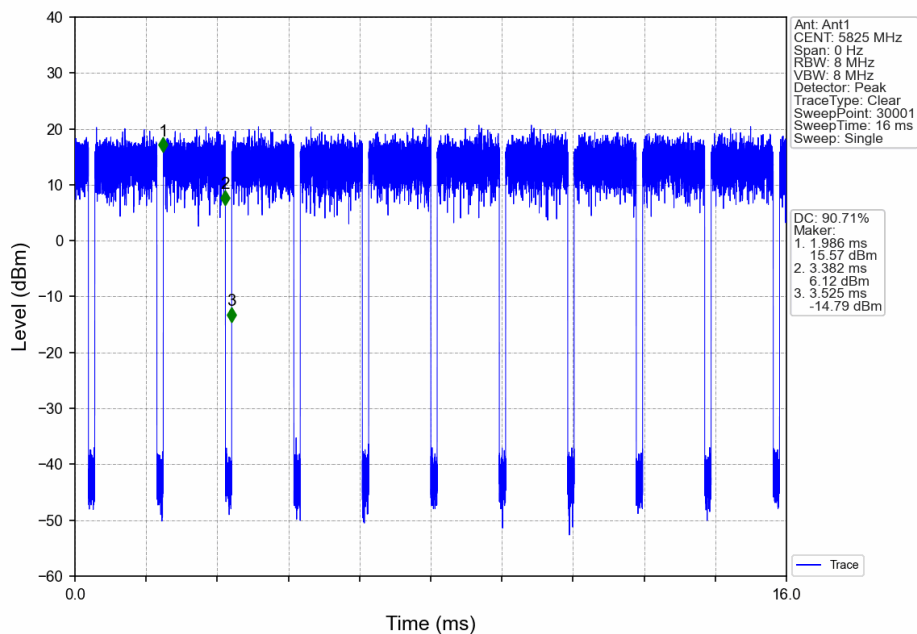
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



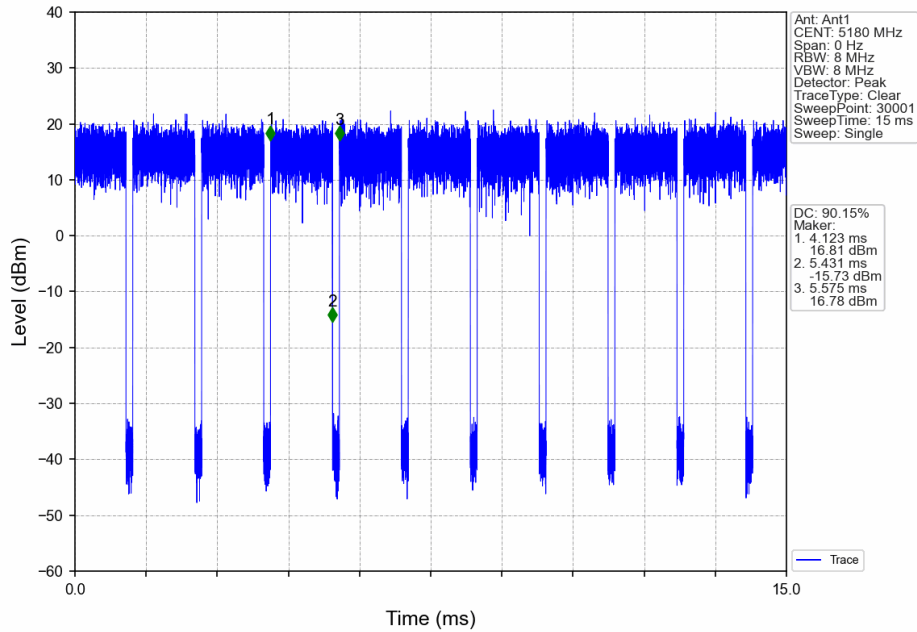
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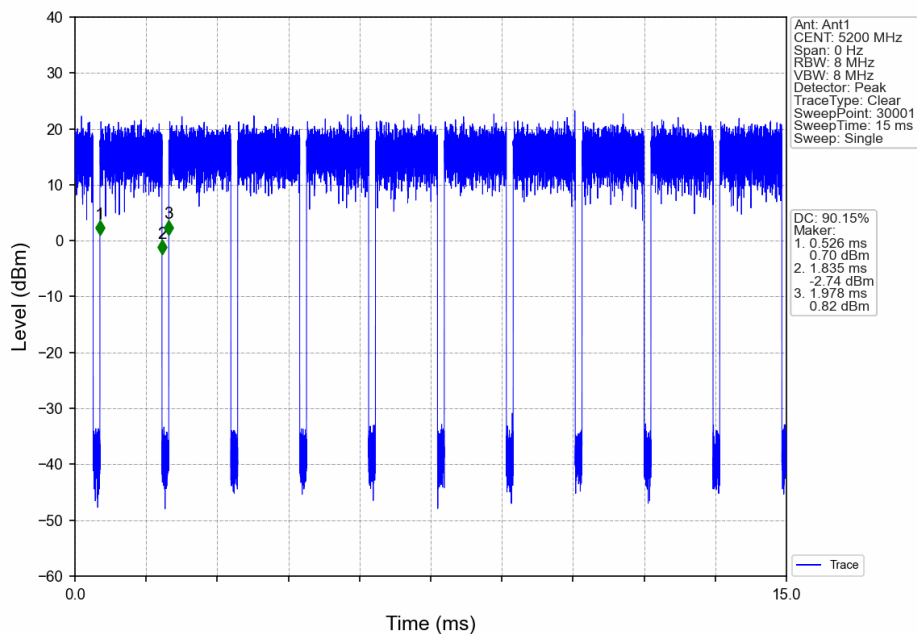
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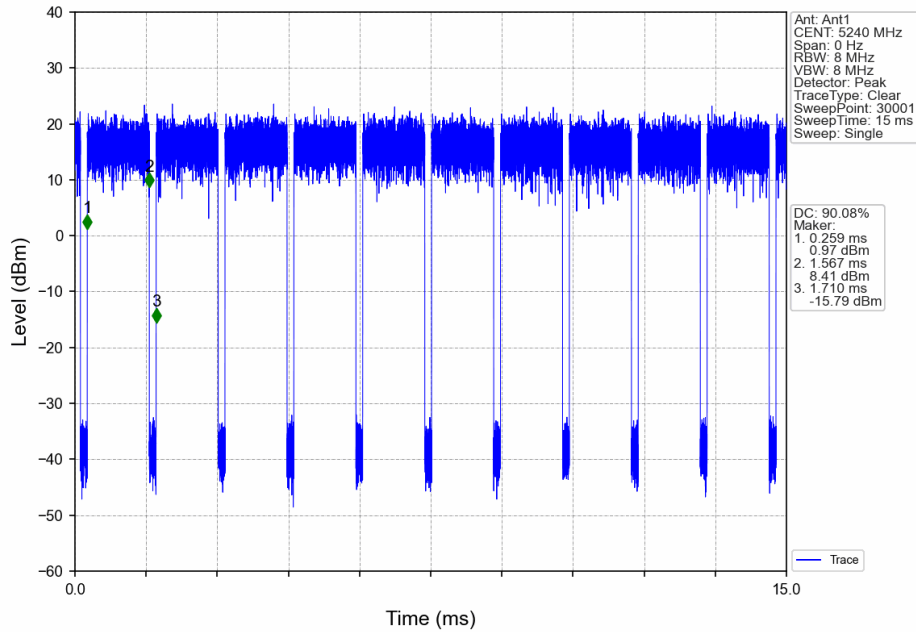
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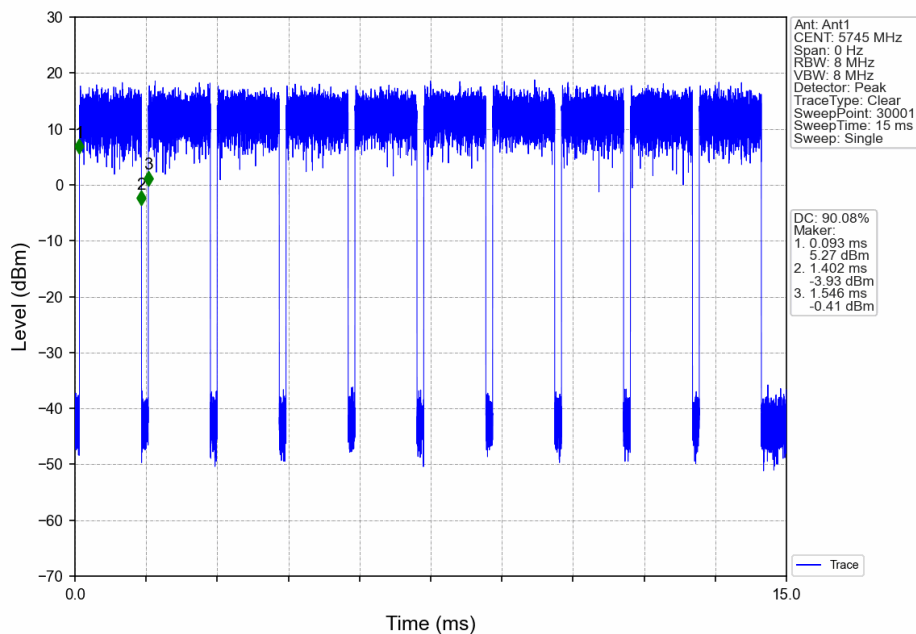
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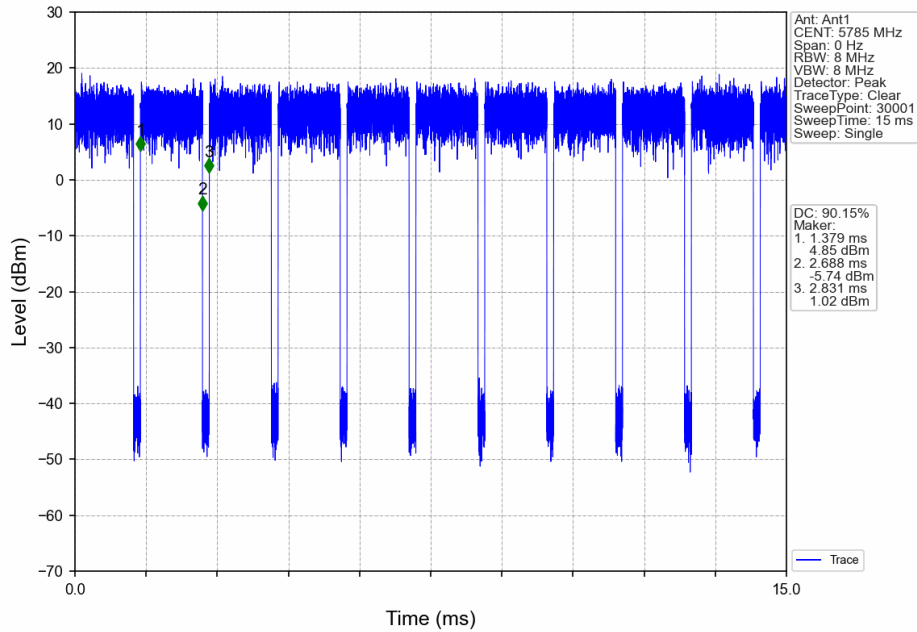
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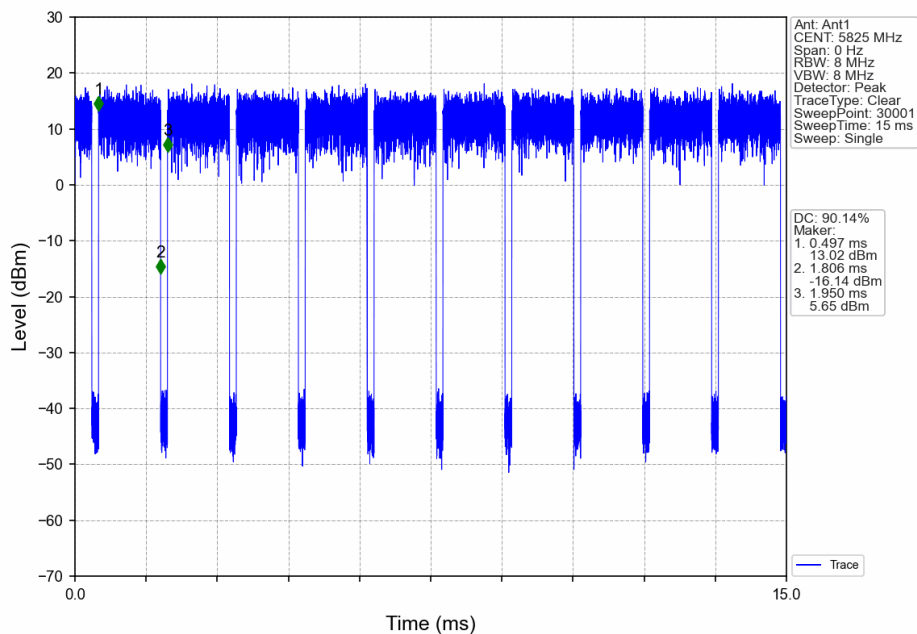
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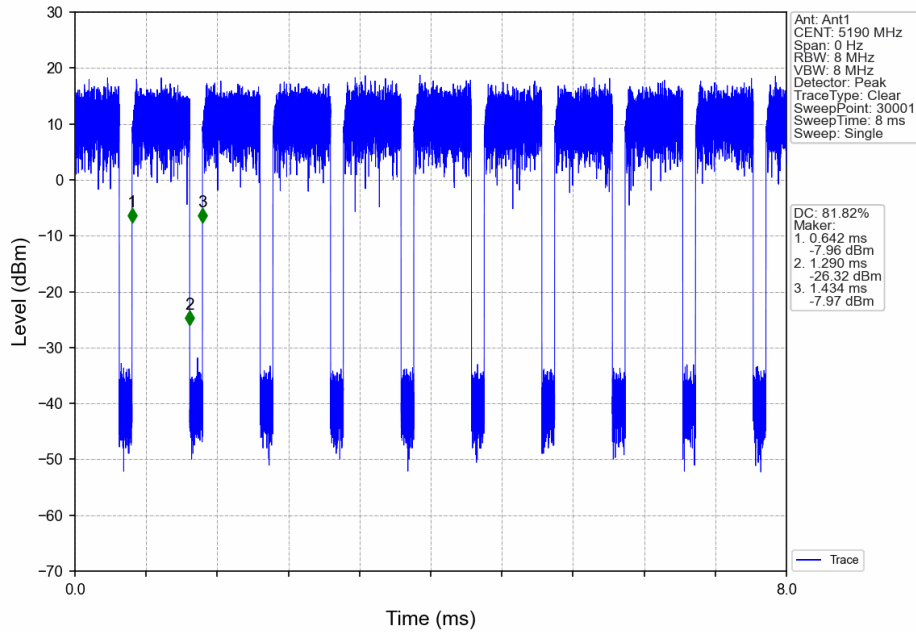
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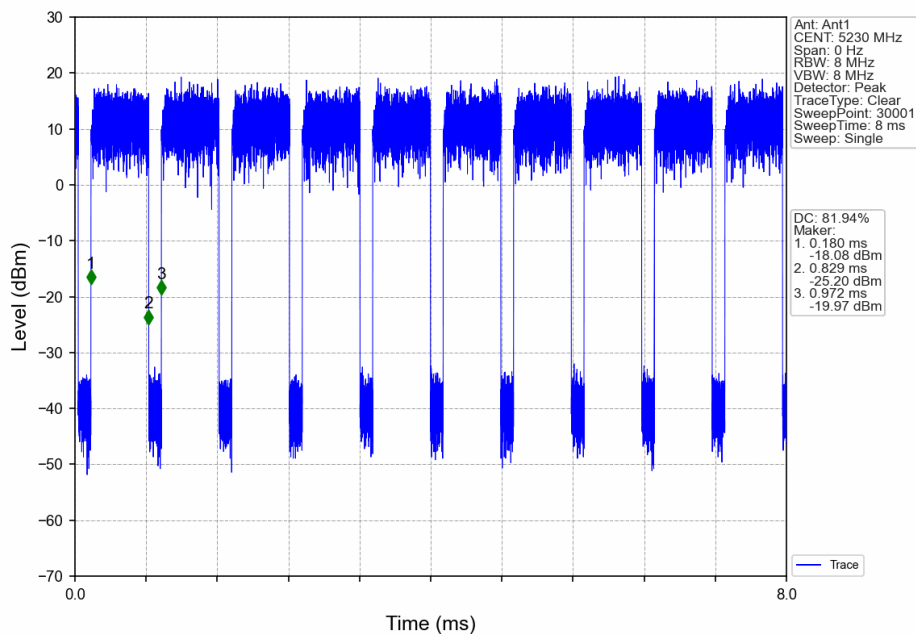
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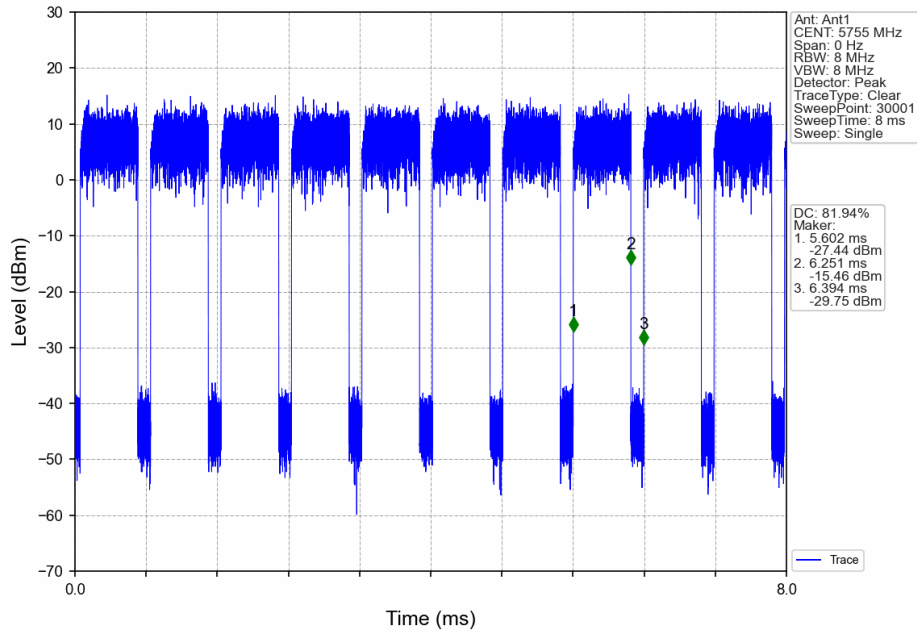
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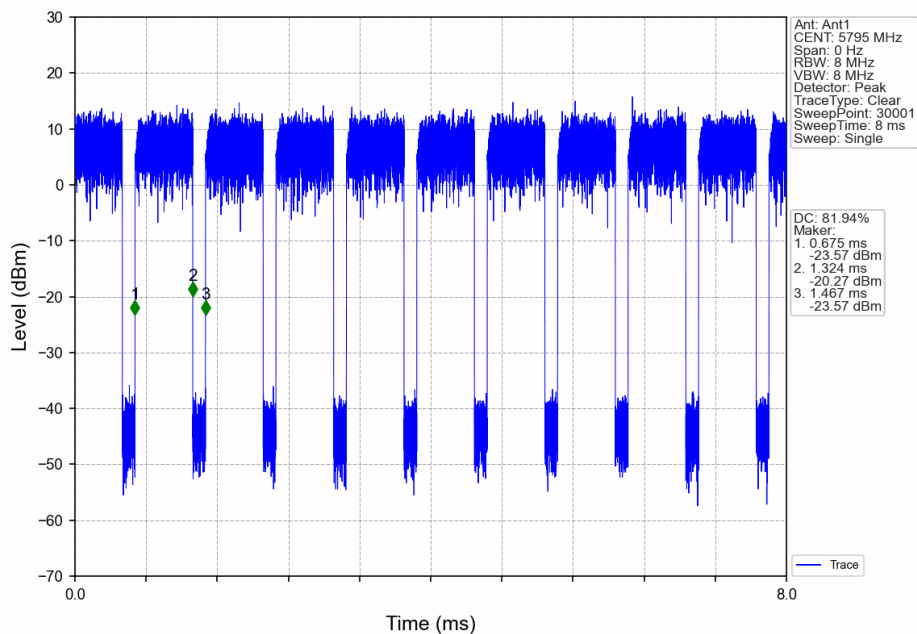
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

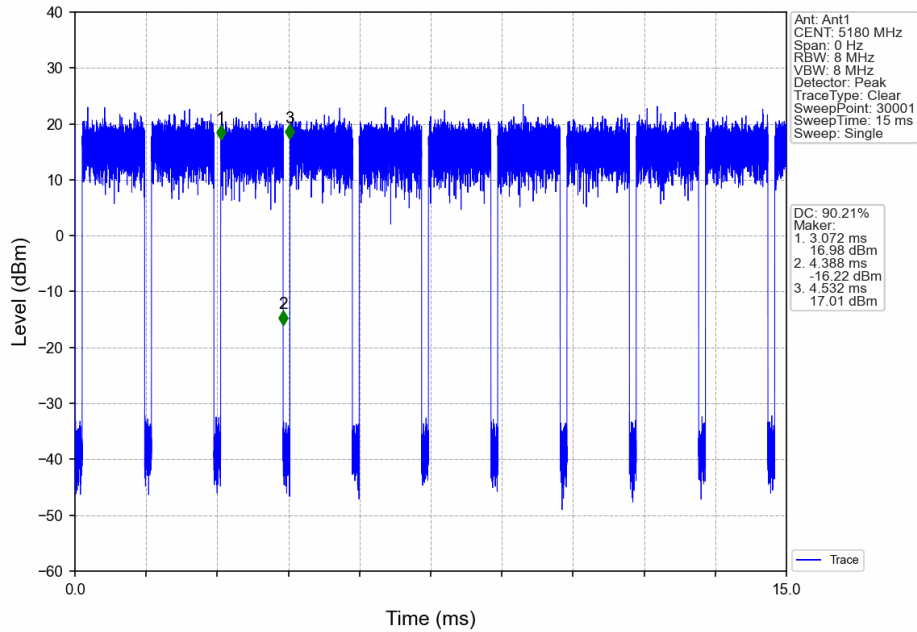


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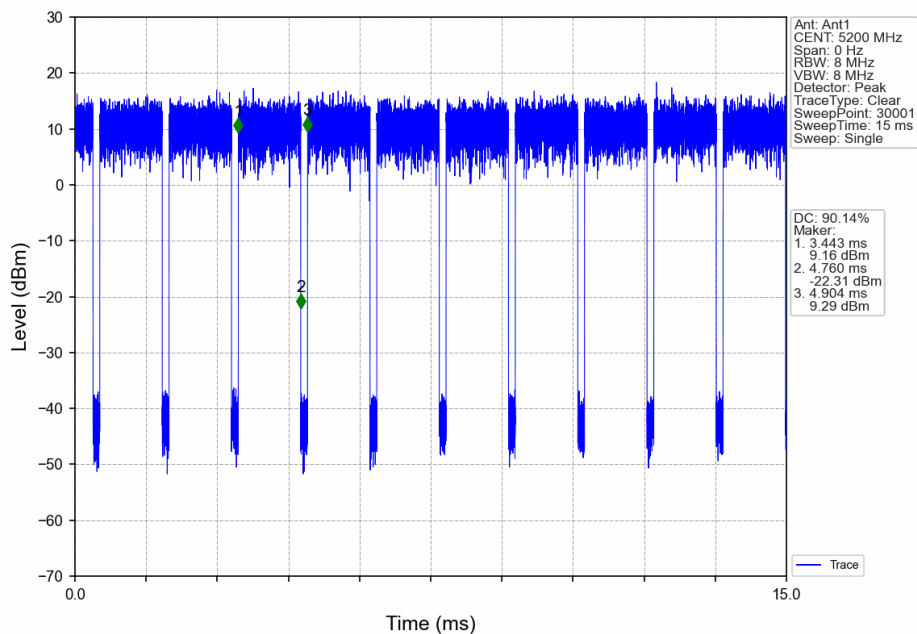
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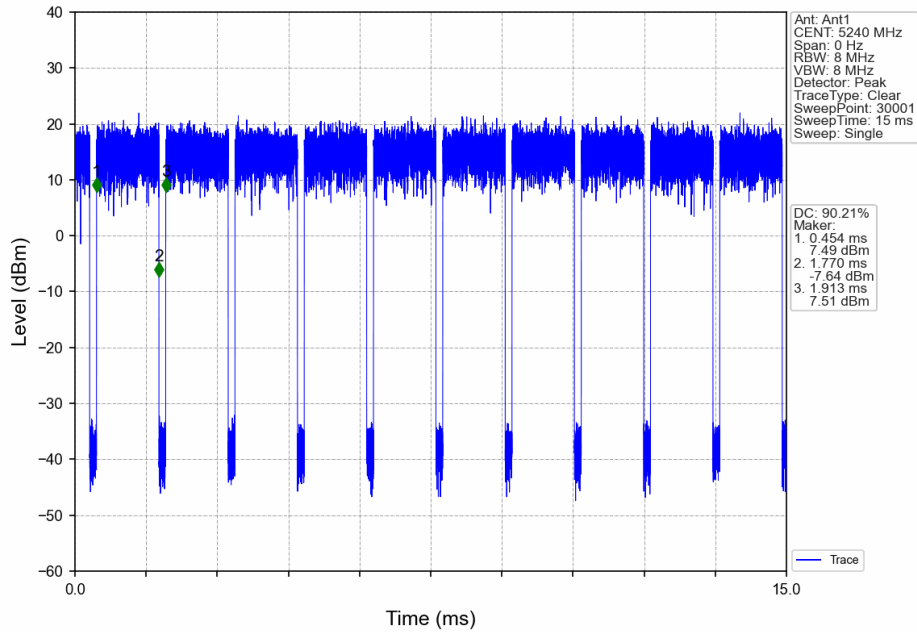
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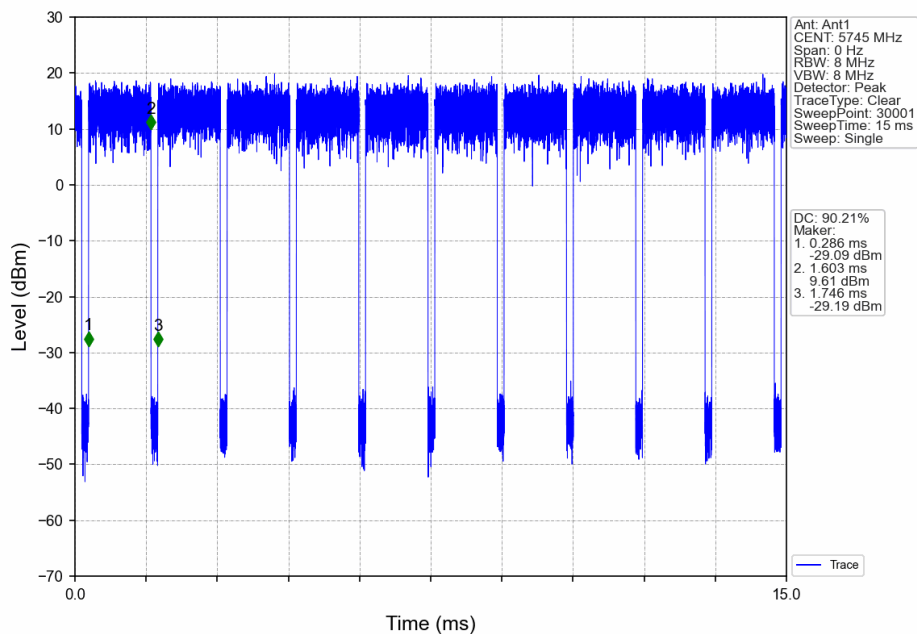
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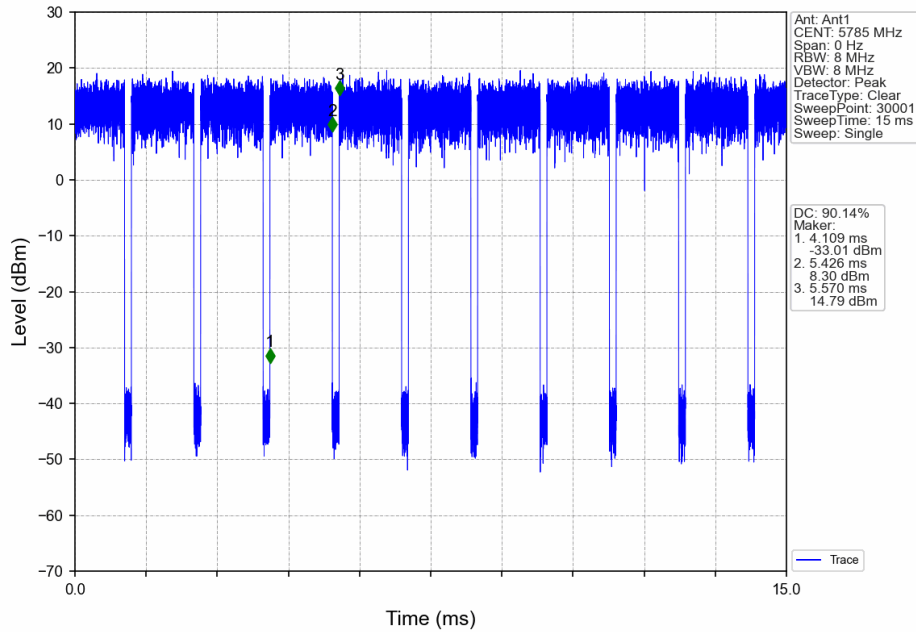
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



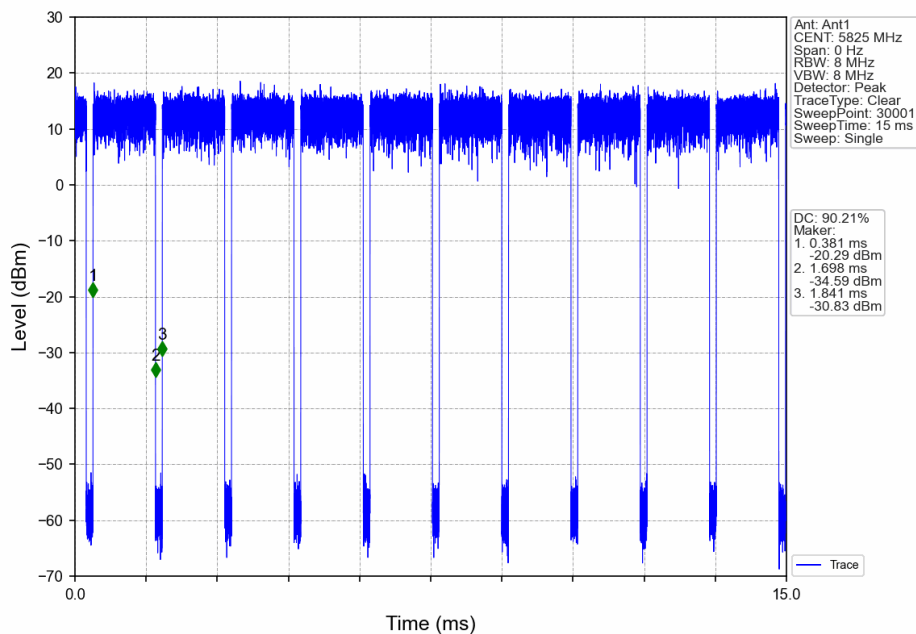
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



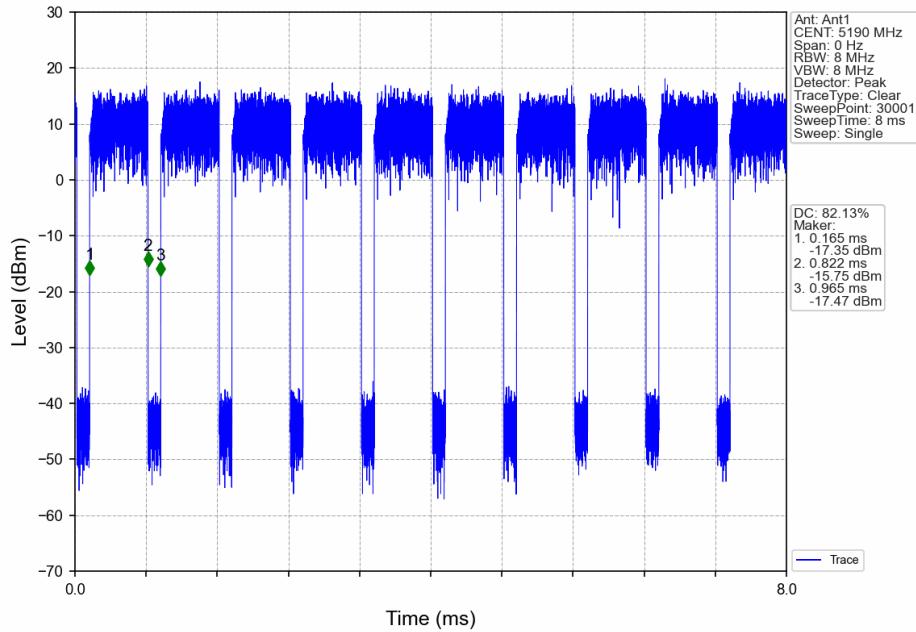
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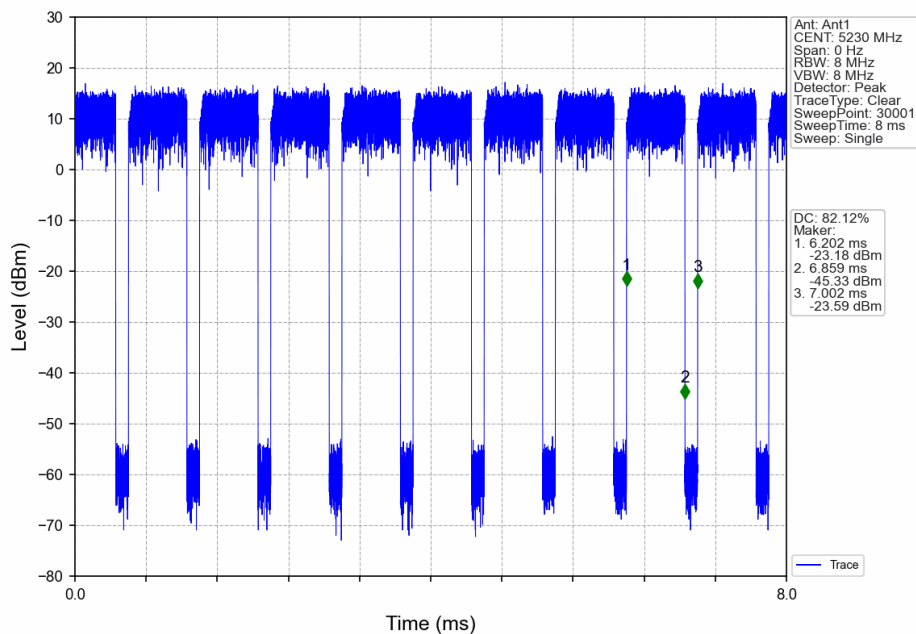
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



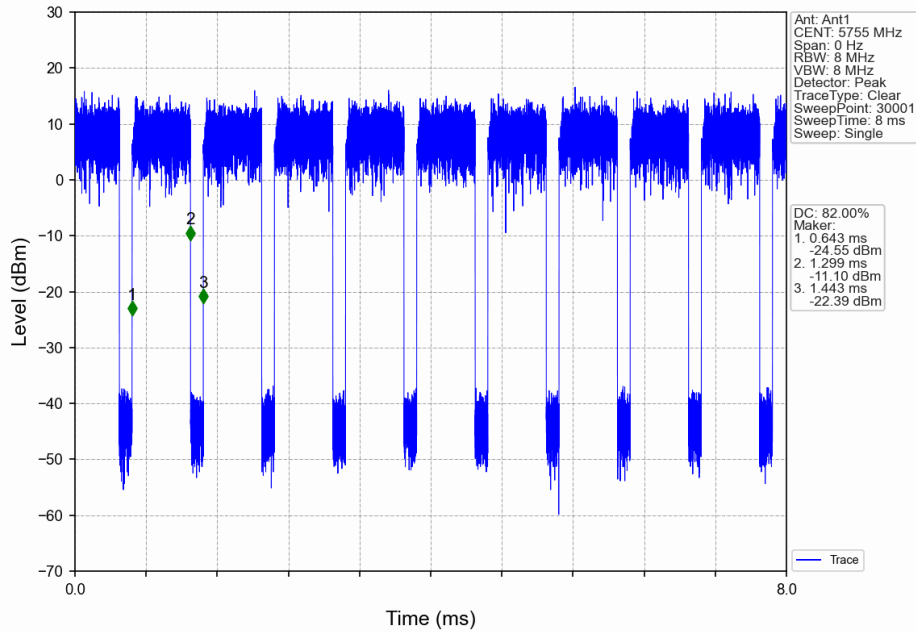
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



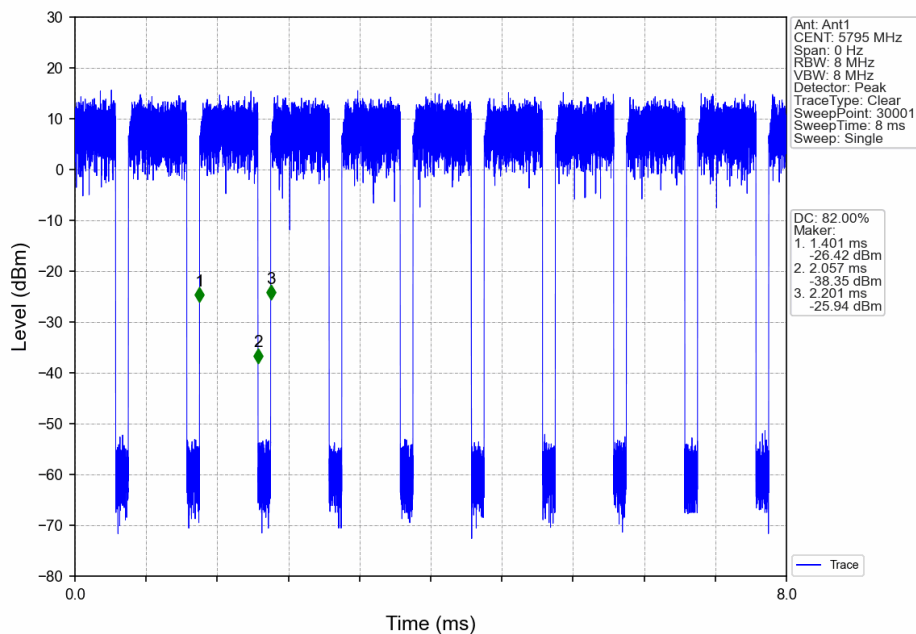
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



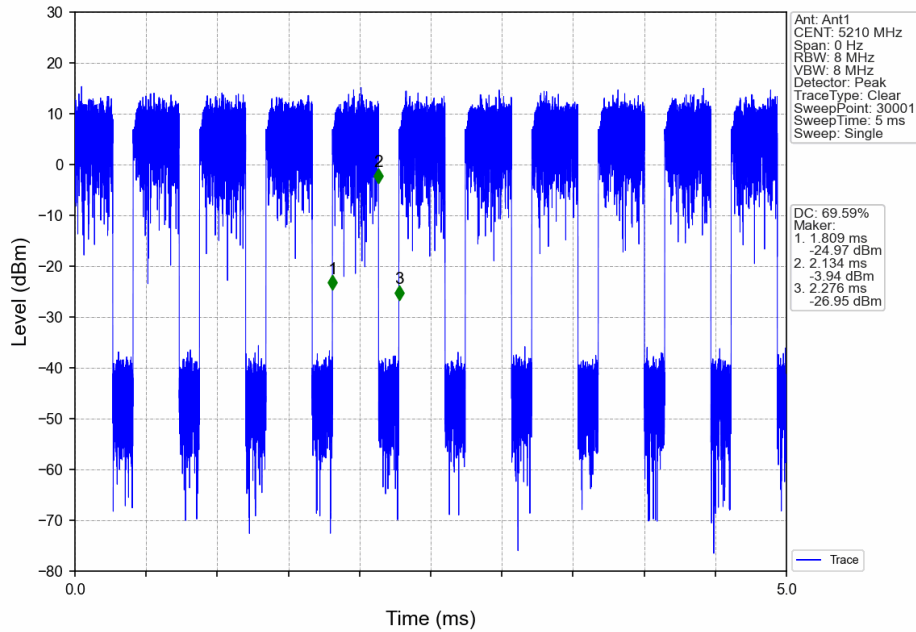
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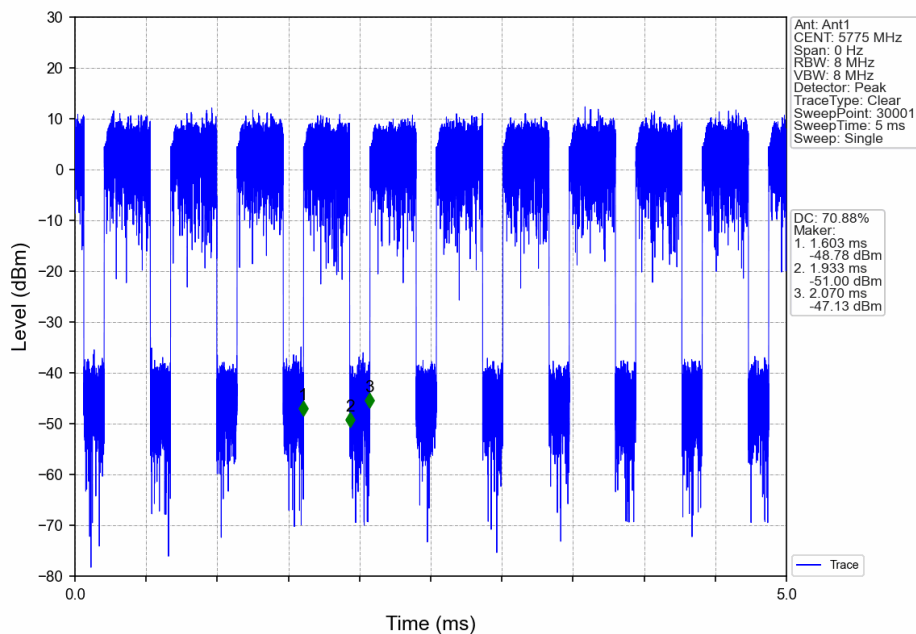
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	17.763	Pass
		5200	1	17.785	Pass
		5240	1	17.760	Pass
		5745	1	17.969	Pass
		5785	1	17.990	Pass
		5825	1	17.943	Pass
802.11n (HT20)	SISO	5180	1	18.760	Pass
		5200	1	18.760	Pass
		5240	1	18.661	Pass
		5745	1	18.679	Pass
		5785	1	18.624	Pass
		5825	1	18.742	Pass
802.11n (HT40)	SISO	5190	1	36.488	Pass
		5230	1	36.437	Pass
		5755	1	36.898	Pass
		5795	1	36.782	Pass
802.11ac (VHT20)	SISO	5180	1	18.810	Pass
		5200	1	18.816	Pass
		5240	1	18.654	Pass
		5745	1	18.955	Pass
		5785	1	18.827	Pass
		5825	1	18.843	Pass
802.11ac (VHT40)	SISO	5190	1	36.470	Pass
		5230	1	36.495	Pass
		5755	1	36.959	Pass
		5795	1	36.865	Pass
802.11ac (VHT80)	SISO	5210	1	76.382	Pass
		5775	1	76.253	Pass

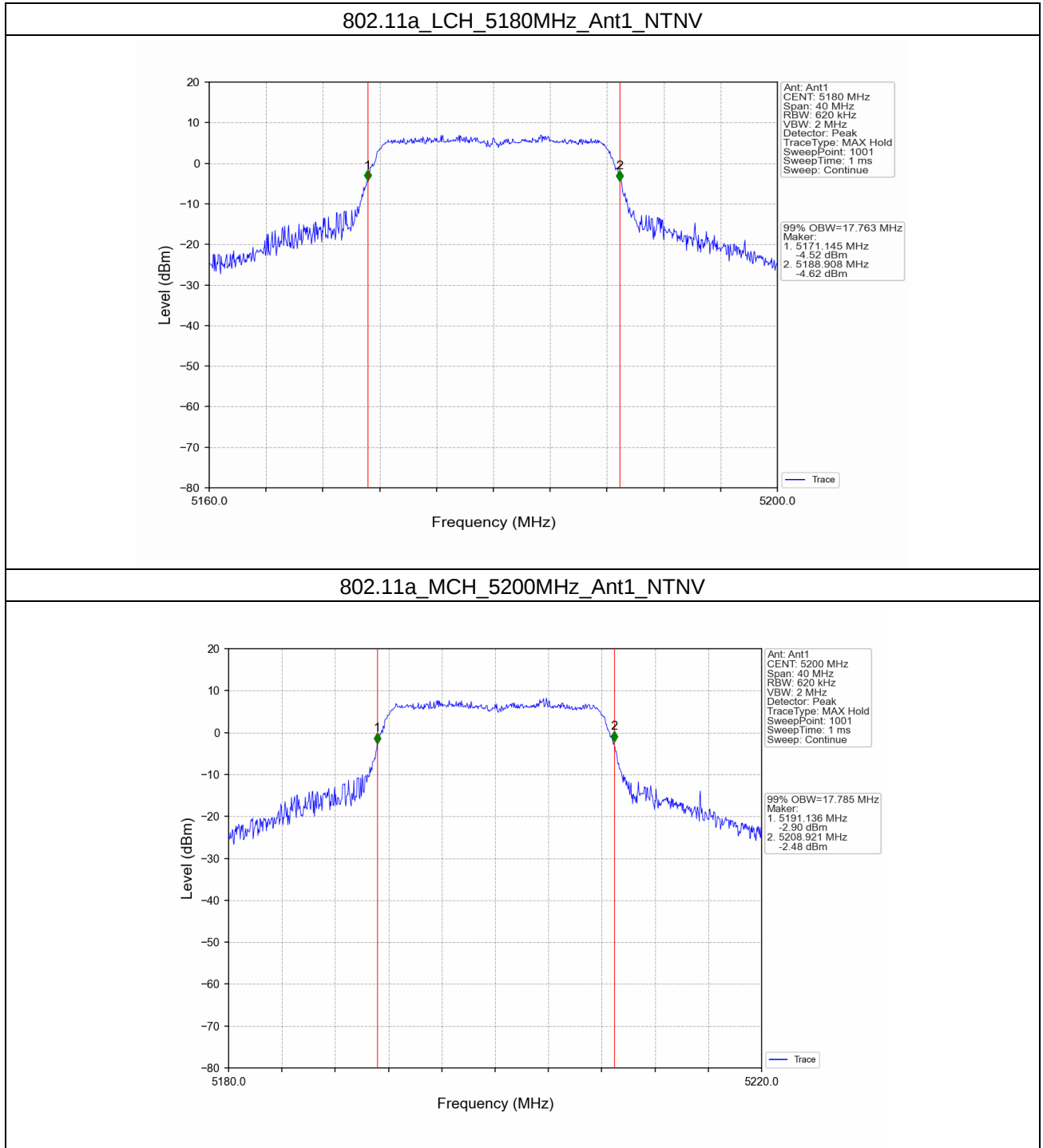


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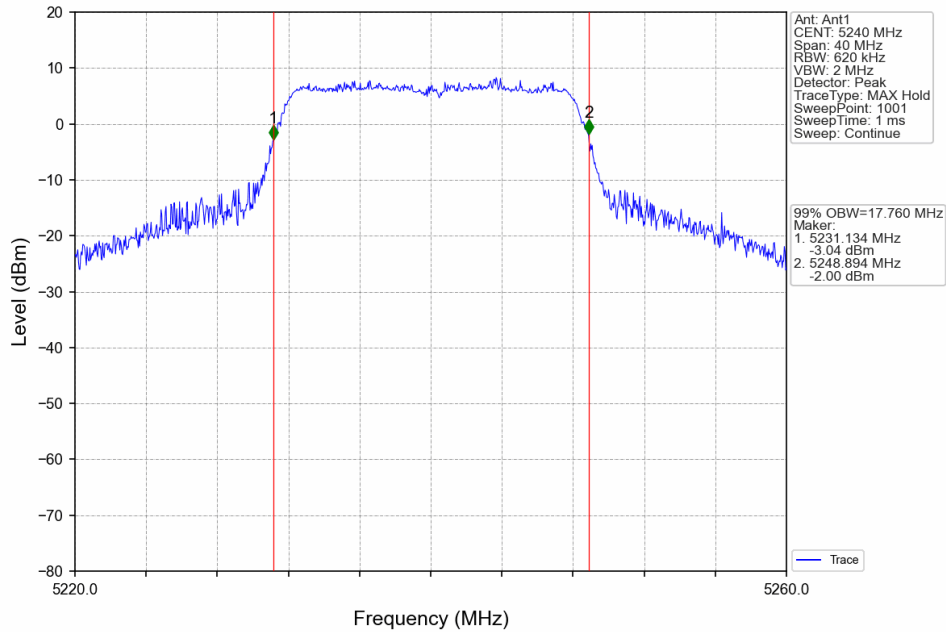
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2.1.2 Test Graph



802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV

