

Report No.: SZCR210402053904

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TEST REPORT

Application No.: SZCR2104020539AT

Applicant: UBTECH ROBOTICS CORP LTD

Address of Applicant: 16th and 22nd Floor, Block C1, Nanshan I Park, No.1001 Xueyuan Road,

Nanshan District, Shenzhen City, China

Manufacturer: UBTECH ROBOTICS CORP LTD

Address of Manufacturer: 16th and 22ND Floor, block C1 Nanshan I Park, NO.1001 Xueyuan Road,

Nanshan District, Shenzhen City, 518055, P.R.CHINA

Factory: UBTECH ROBOTICS CORP LTD BAOAN BRANCH

Address of Factory: 1-2Floor, Block B, Huilongda Industry Park, Shilongzai, Shiyan Street,

Baoan District, Shenzhen City, P.R.CHINA

Equipment Under Test (EUT):

EUT Name: ADIBOT-A
Model No.: ADAA201
Trade Mark: UBTECH

FCC ID: 2AHJX-ADAA201

Standard(s): 47 CFR Part 15, Subpart E 15.407

Date of Receipt: 2021-04-16

Date of Test: 2021-04-18 to 2021-06-05

Date of Issue: 2021-06-10

Test Result: Pass*

Keny Xu EMC Laboratory Manager



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



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2021-06-10		Original			

Authorized for issue by:		
	(eo-li	
	Leo Li/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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Test Summary

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

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)	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 C 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 C 15.407 (e)	Pass	
Maximum Conducted output power	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II E	47 CFR Part 15, Subpart C 15.407 (a)	Pass	
Peak Power spectrum density	0ubpart	KDB 789033 D02 II F	47 CFR Part 15, Subpart C 15.407 (a)	Pass	
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass	
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass	
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.407 (g)	Pass	
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass	



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General Information

4.1 Details of E.U.T.

Power supply:	DC 29V from adapter input AC 120V/60Hz
	Lithium Ion Battery: 25.6V 100Ah rechargeable battery which charged by adapter
Cable(s):	AC cable: 145cm unshielded
	DC cable:90cm shielded
Operation Frequency (20MHz):	U-NII-1: 5180-5240MHz; U-NII-3: 5745-5825MHz
Operation Frequency (40MHz):	U-NII-1: 5190-5230MHz; U-NII-3: 5755-5795MHz
Operation Frequency (80MHz):	U-NII-1: 5210MHz; U-NII-3: 5775MHz
Moudulation 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
Antenna Type:	Dipole Antenna
Antenna Gain:	ANT1: 3dBi; ANT2: 3dBi
Directional gain:	6.01dBi
Remark:	1 Two Antennas can simultaneous transmit WIFI signal at 802.11n(HT20), 802.11n(HT40), 802.11ac(HT20), 802.11ac(HT40), 802.11ac(HT80) modes. 2 Directional gain =GANT+10*log(NANT/NSS)= 3+10*log(2/1)=6.01dBi.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.			
The EUT has been tested as an independent unit.						



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.0dB (150kHz to 30MHz)
Duty Cycle	± 0.37%
99% Bandwidth	± 3%
26dB Emission bandwidth	± 3%
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	± 3%
Maximum Conducted output power	± 0.75dB
Peak Power spectrum density	± 2.84dB
Radiated Emissions (Above 1GHz)	± 4.8dB
Radiated Emissions which fall in the restricted bands	± 4.5dB (below 1GHz); ± 4.8dB (above 1GHz);
Frequency Stability	± 7.25 x 10-8
Radiated Emissions (Below 1GHz)	± 4.5dB

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR 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:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, 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: CN1178

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

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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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	2019-06-13	2022-06-12	
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2021-03-24	2022-03-23	
Switch	WEINSCHEL ENGINEERING	1506A	SEN009-01	N/A	N/A	
Matching Pad	anzac	PT-75	SEN009-02	N/A	N/A	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2020-09-23	2021-09-22	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2021-03-24	2022-03-25	

Duty Cycle					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22



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99% Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22

26dB Emission bandwidth							
Equipment	uipment Manufacturer Model No Inventory No		Cal Date	Cal Due Date			
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12		
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22		
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23		
Signal Generator	KEYSIGHT	N5173B	N5173B SEM006-05 2		2021-09-22		
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07		
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22		



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Minimum 6 dB bandwidth (5.725-5.85 GHz band)								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12			
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22			
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23			
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22			
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09			
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07			
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22			

Maximum Conducted output power							
Equipment	Manufacturer	Model No	Model No Inventory No		Cal Due Date		
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12		
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22		
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23		
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22		
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07		
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22		



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Peak Power spectrum density							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12		
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22		
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23		
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22		
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07		
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22		

Radiated Emissions (Above 1GHz)							
Equipment	Manufacturer Model No		Inventory No	Cal Date	Cal Due Date		
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-03-26	2024-03-25		
EXA Signal Analyzer	Agilent Technologies N9010A SEN		SEM004-12	2021-02-01	2022-01-31		
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2021-04-14	2024-04-13		
Pre-Amplifier	Compliance Directions Systems Inc.	tions Systems PAP-0126 SEM004-11		2020-09-23	2021-09-22		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09		

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	2021-03-26	2024-03-25			
EXA Signal Analyzer	ignal Analyzer Agilent Technologies N9010A		SEM004-12	2021-02-01	2022-01-31			
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2021-04-14	2024-04-13			
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09			



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Frequency Stability					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2021-04-08	2022-04-07
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22

Radiated Emissions (Below 1GHz)								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18			
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01			
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23			
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2021-03-24	2022-03-23			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09			

General used equipment								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14			
Humidity/ Temperature Indicator	· · · · · · · · · · · · · · · · · · ·		SEM002-08	2020-09-15	2021-09-14			
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2021-03-30	2022-03-29			



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Radio Spectrum Technical Requirement 6

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

The use of a permanently attached antenna or of an antenna that use an 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 for both ANT1 and ANT2 is 3dBi.

Antenna location: Refer to page 9 and page 10 of the internal photos and page 9 of the external photos.



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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 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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Radio Spectrum Matter Test Results 7

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

47 CFR Part 15, Subpart C 15.207 & 15.407 b(6) Test Requirement

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

Limit:

Evenue of emission/MU=)	Conducted limit(dB μ V)					
Frequency of emission(MHz)	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: 24.0 °C Humidity: 59.9 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

7.1.2 163t W		
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). 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). Only the data of worst case is recorded in the report.



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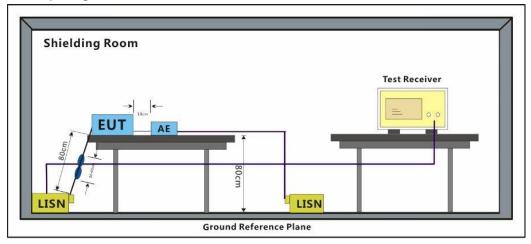
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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



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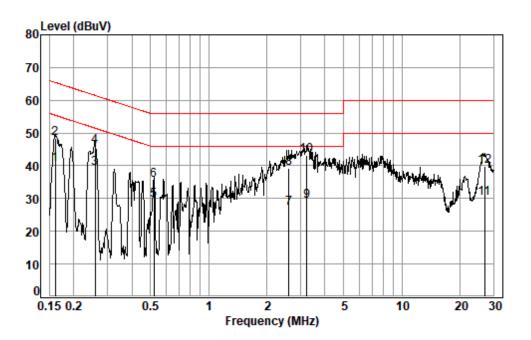
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Test Mode: 09; Line: Live line; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



: Shielding Room

Condition: Line Job No. : 20539AT

Test mode: 09

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
	0.4607	0.03	0.63	30.00	40 56	FF 43	44.07	
1	0.1607	0.03	9.63	30.90	40.56	55.43	-14.8/	Average
2	0.1607	0.03	9.63	38.80	48.46	65.43	-16.97	QP
3	0.2589	0.05	9.65	29.55	39.25	51.47	-12.22	Average
4	0.2589	0.05	9.65	36.33	46.03	61.47	-15.44	QP
5	0.5210	0.07	9.69	19.69	29.45	46.00	-16.55	Average
6	0.5210	0.07	9.69	25.69	35.45	56.00	-20.55	QP
7	2.6082	0.14	9.70	17.15	26.99	46.00	-19.01	Average
8	2.6082	0.14	9.70	29.43	39.27	56.00	-16.73	QP
9	3.2239	0.14	9.72	19.24	29.10	46.00	-16.90	Average
10	3.2239	0.14	9.72	33.41	43.27	56.00	-12.73	QP
11	26.8411	0.19	9.99	19.89	30.07	50.00	-19.93	Average
12	26.8411	0.19	9.99	29.58	39.76	60.00	-20.24	QP



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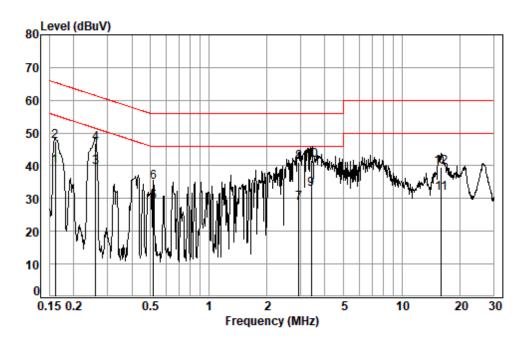
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Test Mode: 09; Line: Neutral Line; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



: Shielding Room

Condition: Neutral Job No. : 20539AT

Test mode: 09

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1607	0.03	9.63	30.16	39.82	55.43	-15.61	Average
2	0.1607	0.03	9.63	37.91	47.57	65.43	-17.86	QP
3	0.2603	0.05	9.65	29.85	39.55	51.42	-11.87	Average
4	0.2603	0.05	9.65	37.07	46.77	61.42	-14.65	QP
5	0.5182	0.07	9.67	19.08	28.82	46.00	-17.18	Average
6	0.5182	0.07	9.67	25.18	34.92	56.00	-21.08	QP
7	2.9307	0.14	9.70	18.73	28.57	46.00	-17.43	Average
8	2.9307	0.14	9.70	31.10	40.94	56.00	-15.06	QP
9	3.3994	0.15	9.71	22.89	32.75	46.00	-13.25	Average
10	3.3994	0.15	9.71	31.96	41.82	56.00	-14.18	QP
11	16.0546	0.16	9.99	21.37	31.52	50.00	-18.48	Average
12	16.0546	0.16	9.99	29.43	39.58	60.00	-20.42	QP



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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

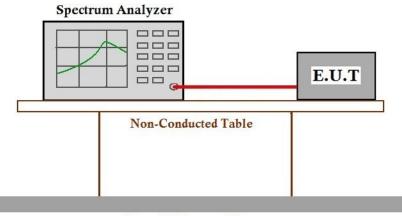
Operating Environment:

Temperature: 20.5 °C Humidity: 53.4 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

	7.2.2 Test mode bescription				
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). 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). Only the data of worst case is recorded in the report.			

7.2.3 Test Setup Diagram



Ground Reference Plane

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

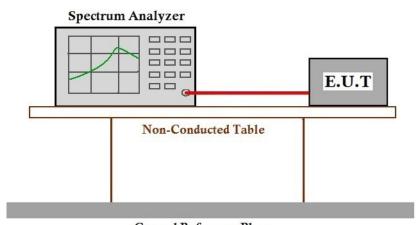
Operating Environment:

Temperature: 20.6 °C Humidity: 53.4 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

	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(VHT80). 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). Only the data of worst case is recorded in the report.			

7.3.3 Test Setup Diagram



Ground Reference Plane

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 C 15.407 (a)

Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

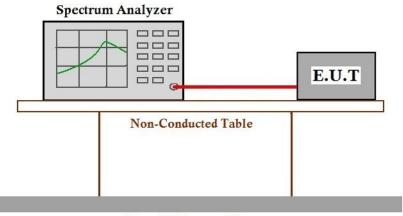
Operating Environment:

Temperature: 20.6 °C Humidity: 53.4 % RH Atmospheric Pressure: 1010 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(VHT80). Only the data of worst case is recorded in the report.
Final test	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode we modulation types. All data rates for each modulation type have been tested and the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20) rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded report.	

7.4.3 Test Setup Diagram



Ground Reference Plane

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 C 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

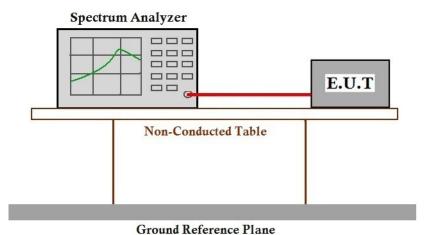
Operating Environment:

Temperature: 20.6 °C Humidity: 53.4 % RH Atmospheric Pressure: 1010 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). Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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7.6 Maximum Conducted output power

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

Test Method: KDB 789033 D02 II E

Limit:

Frequen	cy band(MHz)	Limit
5150	F250	≤1W(30dBm) for master device
5150-	5250	≤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	e 26dB emission bandwidth in MHz.
		conducted output power must be measured over any interval ransmission using instrumentation calibrated in terms of an voltage.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 20.6 °C Humidity: 52.6 % RH Atmospheric Pressure: 1010 mbar

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). 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). Only the data of worst case is recorded in the report.



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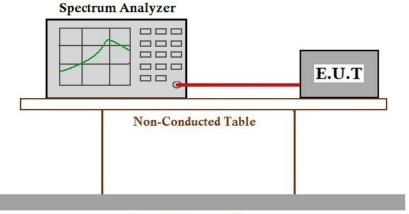
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7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

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7.7 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

Limit:

Frequenc	y band(MHz)	Limit
5150 F	250	≤17dBm in 1MHz for master device
5150-5250		≤11dBm in 1MHz for client device
5250-5	350	≤11dBm in 1MHz for client device
5470-5	725	≤11dBm in 1MHz for client device
5725-5	850	≤30dBm in 500 kHz
		power spectral density is measured as a conducted emission ection of a calibrated test instrument to the equipment under

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 20.6 °C Humidity: 52.3 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

	7.7.2 Test mode bescription				
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). 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). Only the data of worst case is recorded in the report.			



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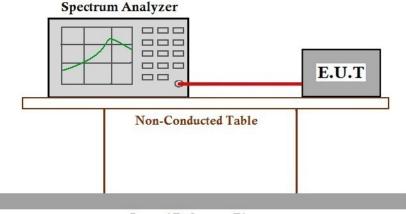
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7.7.3 Test Setup Diagram



Ground Reference Plane

7.7.4 Measurement Procedure and Data

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7.8 Radiated Emissions (Above 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)	
Above 1GHz	500	3	

- *(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
- (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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



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7.8.1 E.U.T. Operation

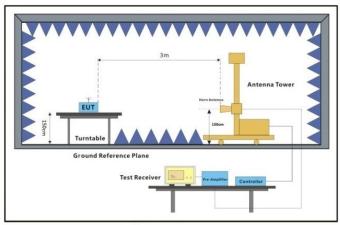
Operating Environment:

Temperature: 21.5 °C Humidity: 53.2 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

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

7.8.3 Test Setup Diagram



Above 1GHz



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7.8.4 Measurement Procedure and Data

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

- 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.



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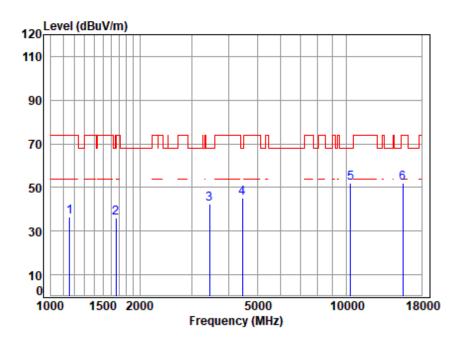
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5180 TX RSE Note : 5G WIFI 11A

	Freq	Cable Loss		Preamp Factor			Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	2.69	25.00	39.73	48.51	36.47	74.00	-37.53	peak
2	1658.337	3.40	26.50	40.04	46.30	36.16	68.20	-32.04	peak
3	3445.535	5.45	31.57	41.04	46.49	42.47	68.20	-25.73	peak
4	4456.315	6.72	32.97	41.84	47.24	45.09	68.20	-23.11	peak
5	10360.000	10.57	37.43	37.29	41.16	51.87	68.20	-16.33	peak
6	15540.000	13.97	40.73	40.38	37.88	52.20	74.00	-21.80	peak



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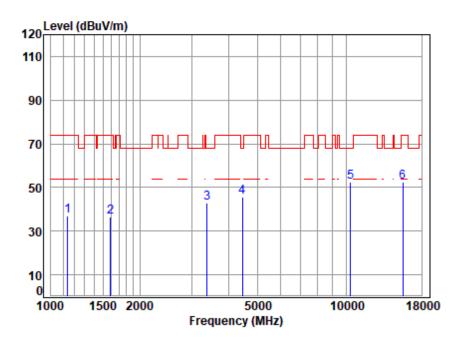
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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5180 TX RSE Note : 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.95	39.71	49.22	37.11	74.00	-36.89	peak
2	1592.571	3.34	26.18	40.00	47.07	36.59	74.00	-37.41	peak
3	3386.297	5.38	31.42	40.99	47.16	42.97	68.20	-25.23	peak
4	4456.315	6.72	32.97	41.84	47.77	45.62	68.20	-22.58	peak
5	10360.000	10.57	37.43	37.29	41.95	52.66	68.20	-15.54	peak
6	15540.000	13.97	40.73	40.38	38.35	52.67	74.00	-21.33	peak



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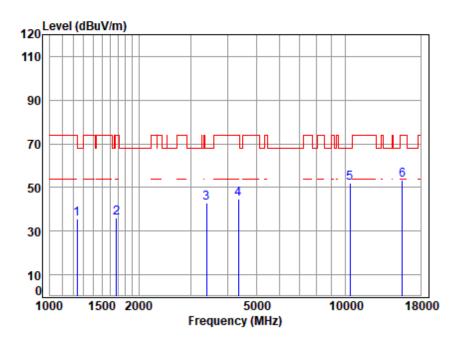
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5220 TX RSE Note : 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1234.909	2.83	25.17	39.78	47.26	35.48	74.00	-38.52	peak
2	1677.621								
3	3396.098	5.39	31.45	41.00	47.14	42.98	68.20	-25.22	peak
4	4354.454	6.63	32.89	41.74	47.14	44.92	74.00	-29.08	peak
5	10400.000	10.56	37.42	37.32	41.35	52.01	68.20	-16.19	peak
6	15600.000	13.99	40.78	40.41	38.88	53.24	74.00	-20.76	peak



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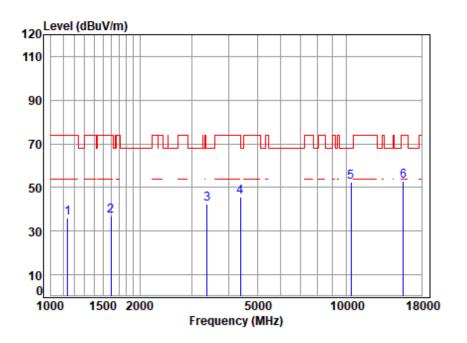
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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5220 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.95	39.71	48.13	36.02	74.00	-37.98	peak
2	1597.181	3.35	26.20	40.01	47.29	36.83	74.00	-37.17	peak
3	3376.523	5.37	31.40	40.99	46.53	42.31	68.20	-25.89	peak
4	4392.376	6.66	32.92	41.78	47.83	45.63	74.00	-28.37	peak
5	10400.000	10.56	37.42	37.32	41.63	52.29	68.20	-15.91	peak
6	15600.000	13.99	40.78	40.41	38.38	52.74	74.00	-21.26	peak
									•



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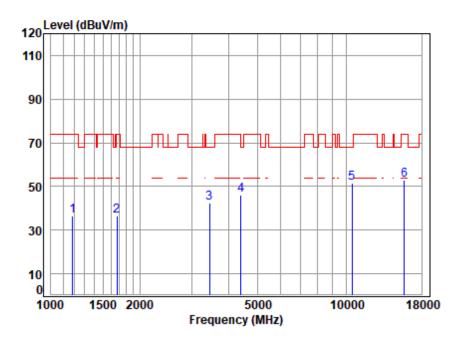
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5240 TX RSE Note : 5G WIFI 11A

	Freq		Ant Factor	Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1182.513	2.73	25.05	39.75	48.68	36.71	74.00	-37.29	peak
2	1672.779	3.41	26.57	40.05	46.38	36.31	74.00	-37.69	peak
3	3445.535	5.45	31.57	41.04	46.48	42.46	68.20	-25.74	peak
4	4405.090	6.67	32.93	41.79	48.31	46.12	68.20	-22.08	peak
5	10480.000	10.54	37.40	37.36	40.96	51.54	68.20	-16.66	peak
6	15720.000	14.04	40.88	40.47	38.68	53.13	74.00	-20.87	peak



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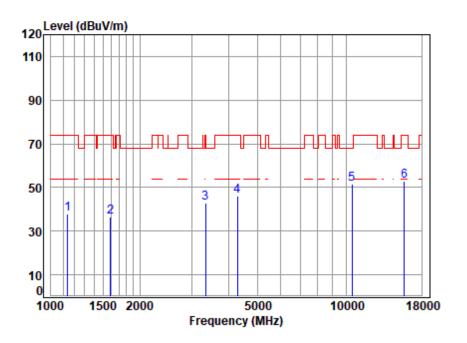
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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5240 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			,			,	,		
1	1138.904	2.65	24.95	39.71	49.89	37.78	74.00	-36.22	peak
2	1592.571	3.34	26.18	40.00	47.18	36.70	74.00	-37.30	peak
3	3337.710	5.32	31.30	40.96	47.14	42.80	74.00	-31.20	peak
4	4279.589	6.56	32.83	41.67	48.16	45.88	74.00	-28.12	peak
5	10480.000	10.54	37.40	37.36	40.86	51.44	68.20	-16.76	peak
6	15720.000	14.04	40.88	40.47	38.62	53.07	74.00	-20.93	peak



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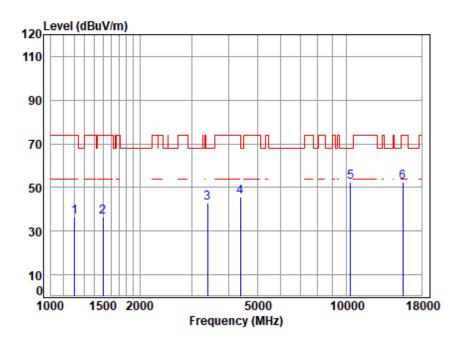
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5180 TX RSE Note : 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1203.199	2.77	25.10	39.76	48.18	36.29	74.00	-37.71	peak
2	1498.781	3.26	25.70	39.95	47.45	36.46	74.00	-37.54	peak
3	3396.098	5.39	31.45	41.00	46.84	42.68	68.20	-25.52	peak
4	4379.699	6.65	32.91	41.77	47.65	45.44	74.00	-28.56	peak
5	10360.000	10.57	37.43	37.29	41.71	52.42	68.20	-15.78	peak
6	15540.000	13.97	40.73	40.38	38.28	52.60	74.00	-21.40	peak



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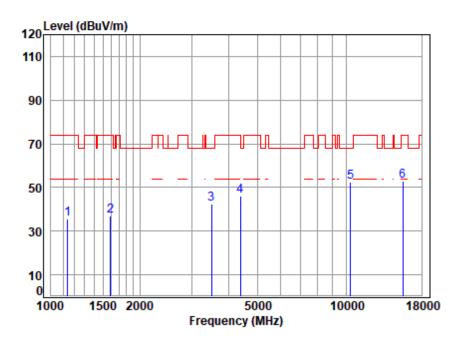
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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5180 TX RSE Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1138.904	2.65	24.95	39.71	47.88	35.77	74.00	-38.23	peak	
2	1592.571	3.34	26.18	40.00	47.43	36.95	74.00	-37.05	peak	
3	3495.691	5.51	31.69	41.07	46.46	42.59	68.20	-25.61	peak	
4	4392.376	6.66	32.92	41.78	48.51	46.31	74.00	-27.69	peak	
5	10360.000	10.57	37.43	37.29	41.88	52.59	68.20	-15.61	peak	
6	15540.000	13.97	40.73	40.38	38.45	52.77	74.00	-21.23	peak	



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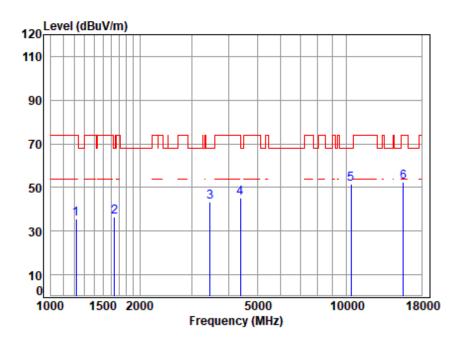
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5220 TX RSE Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1217.190	2.80	25.13	39.77	47.35	35.51	74.00	-38.49	peak
2	1639.274	3.38	26.41	40.03	46.58	36.34	68.20	-31.86	peak
3	3455.508	5.47	31.59	41.04	47.14	43.16	68.20	-25.04	peak
4	4379.699	6.65	32.91	41.77	47.46	45.25	74.00	-28.75	peak
5	10400.000	10.56	37.42	37.32	40.77	51.43	68.20	-16.77	peak
6	15600.000	13.99	40.78	40.41	38.29	52.65	74.00	-21.35	peak



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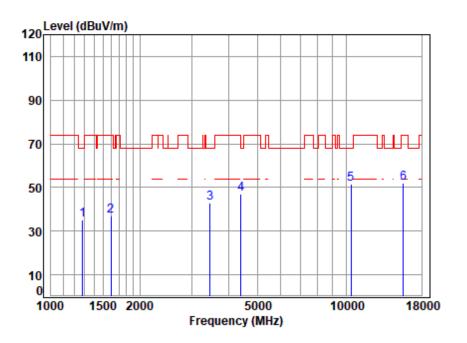
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5220 TX RSE Note 5G WTFT 11N20

ore	: 50	MTLT	111/20						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	2.91	25.27	39.82	46.95	35.31	68.20	-32.89	peak
2	1597.181	3.35	26.20	40.01	47.30	36.84	74.00	-37.16	peak
3	3465.510	5.48	31.62	41.05	46.94	42.99	68.20	-25.21	peak
4	4405.090	6.67	32.93	41.79	49.01	46.82	68.20	-21.38	peak
5	10400.000	10.56	37.42	37.32	40.69	51.35	68.20	-16.85	peak
6	15600.000	13.99	40.78	40.41	37.84	52.20	74.00	-21.80	peak



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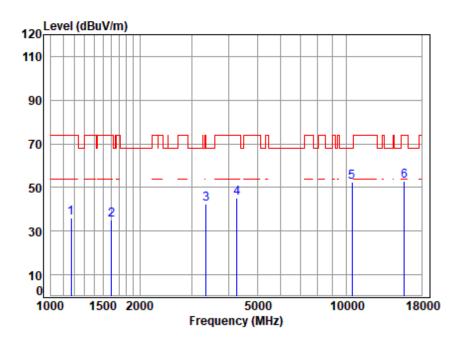
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5240 TX RSE Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	d Bu V/m	dB	
1	1172.303	2.71	25.03	39.74	48.04	36.04	74.00	-37.96	peak
2	1601.804	3.35	26.22	40.01	45.52	35.08	74.00	-38.92	peak
3	3357.061	5.34	31.35	40.97	46.82	42.54	74.00	-31.46	peak
4	4267.237	6.54	32.82	41.66	47.59	45.29	74.00	-28.71	peak
5	10480.000	10.54	37.40	37.36	41.93	52.51	68.20	-15.69	peak
6	15720.000	14.04	40.88	40.47	38.51	52.96	74.00	-21.04	peak



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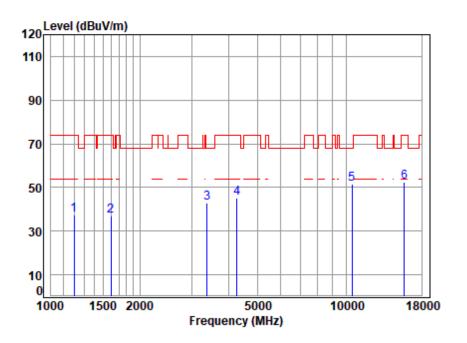
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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5240 TX RSE Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	2.76	25.09	39.76	49.28	37.37	74.00	-36.63	peak
2	1597.181	3.35	26.20	40.01	47.37	36.91	74.00	-37.09	peak
3	3376.523	5.37	31.40	40.99	47.16	42.94	68.20	-25.26	peak
4	4267.237	6.54	32.82	41.66	47.55	45.25	74.00	-28.75	peak
5	10480.000	10.54	37.40	37.36	41.21	51.79	68.20	-16.41	peak
6	15720.000	14.04	40.88	40.47	38.07	52.52	74.00	-21.48	peak
									•



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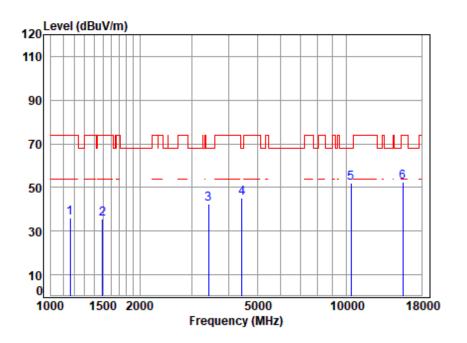
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5190 TX RSE Note : 5G WIFI 11N40

	Freq		Ant Factor	Preamp Factor			Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1162.182	2.69	25.01	39.73	48.21	36.18	74.00	-37.82	peak
2	1494.455	3.25	25.69	39.95	46.66	35.65	74.00	-38.35	peak
3	3425.675	5.43	31.52	41.02	46.32	42.25	68.20	-25.95	peak
4	4443.453	6.71	32.96	41.82	47.45	45.30	68.20	-22.90	peak
5	10380.000	10.57	37.42	37.30	41.46	52.15	68.20	-16.05	peak
6	15570.000	13.98	40.76	40.40	37.98	52.32	74.00	-21.68	peak



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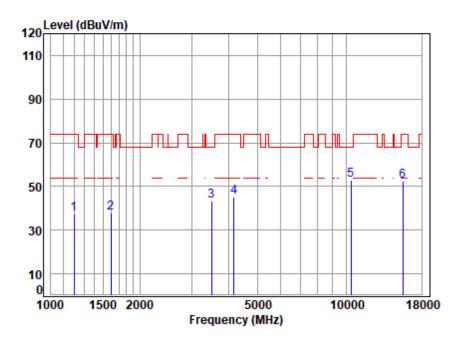
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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5190 TX RSE Note : 5G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	2.76	25.09	39.76	49.40	37.49	74.00	-36.51	peak
2	1597.181	3.35	26.20	40.01	48.22	37.76	74.00	-36.24	peak
3	3495.691	5.51	31.69	41.07	47.32	43.45	68.20	-24.75	peak
4	4169.698	6.45	32.74	41.57	47.64	45.26	74.00	-28.74	peak
5	10380.000	10.57	37.42	37.30	42.22	52.91	68.20	-15.29	peak
6	15570.000	13.98	40.76	40.40	37.98	52.32	74.00	-21.68	peak



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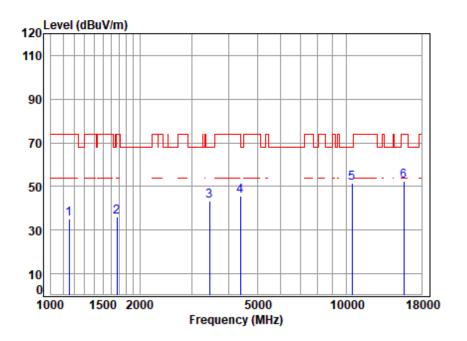
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5230 TX RSE Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
4	1152 140	2 67	24.00	20.72	47.00	25 24	74.00	20 70	
1	1152.148	2.0/	24.90	39.72	4/.20	35.21	74.00	-30.79	реак
2	1672.779	3.41	26.57	40.05	46.11	36.04	74.00	-37.96	peak
3	3445.535	5.45	31.57	41.04	47.24	43.22	68.20	-24.98	peak
4	4379.699	6.65	32.91	41.77	47.84	45.63	74.00	-28.37	peak
5	10460.000	10.54	37.41	37.35	40.78	51.38	68.20	-16.82	peak
6	15690.000	14.03	40.85	40.45	37.86	52.29	74.00	-21.71	peak



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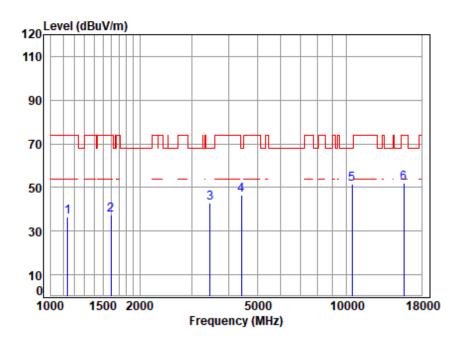
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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5230 TX RSE Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.95	39.71	48.66	36.55	74.00	-37.45	peak
2	1597.181	3.35	26.20	40.01	47.76	37.30	74.00	-36.70	peak
3	3465.510	5.48	31.62	41.05	47.01	43.06	68.20	-25.14	peak
4	4417.841	6.68	32.94	41.80	48.68	46.50	68.20	-21.70	peak
5	10460.000	10.54	37.41	37.35	41.13	51.73	68.20	-16.47	peak
6	15690.000	14.03	40.85	40.45	37.69	52.12	74.00	-21.88	peak



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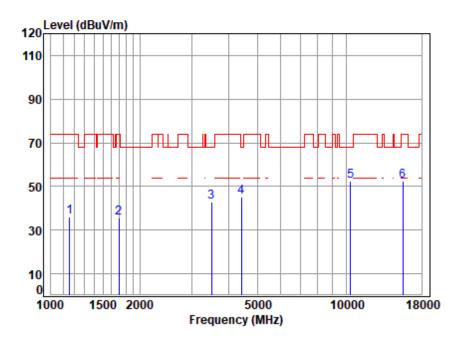
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

1

2

4

5

Mode : 5180 TX RSE Note : 5G WIFI 11AC20

> Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Freq Level Level Line MHz dBuV dBuV/m dBuV/m dB dB/m 25.00 39.73 47.96 35.92 74.00 -38.08 peak 1158.828 2.69 1697.129 3.43 26.69 40.06 45.32 35.38 74.00 -38.62 peak 3495.691 5.51 31.69 41.07 46.77 42.90 68.20 -25.30 peak 32.94 41.80 47.51 45.33 68.20 -22.87 peak 4417.841 6.68 10360.000 10.57 37.43 37.29 41.73 52.44 68.20 -15.76 peak 15540.000 13.97 40.73 40.38 38.36 52.68 74.00 -21.32 peak



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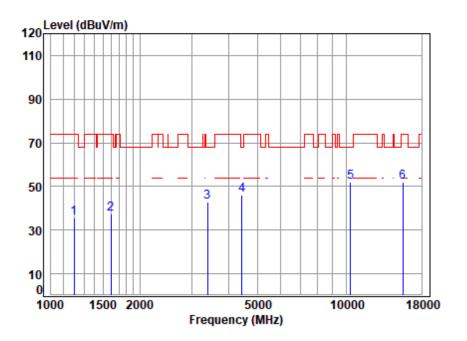
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5180 TX RSE Note : 5G WIFI 11AC20

ote		MILT	TIACZU							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1196.264	2.76	25.09	39.76	47.42	35.51	74.00	-38.49	peak	
2	1597.181	3.35	26.20	40.01	47.76	37.30	74.00	-36.70	peak	
3	3396.098	5.39	31.45	41.00	47.20	43.04	68.20	-25.16	peak	
4	4443.453	6.71	32.96	41.82	48.09	45.94	68.20	-22.26	peak	
5	10360.000	10.57	37.43	37.29	41.39	52.10	68.20	-16.10	peak	
6	15540.000	13.97	40.73	40.38	37.86	52.18	74.00	-21.82	peak	



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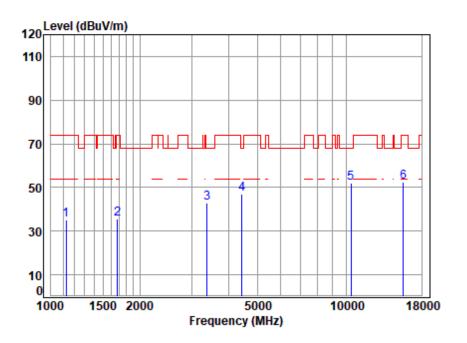
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Report No.: SZCR210402053904

Page: 49 of 278

Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5220 TX RSE

Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1125.813	2.62	24.92	39.70	47.25	35.09	74.00	-38.91	peak
2	1677.621	3.41	26.59	40.05	45.74	35.69	74.00	-38.31	peak
3	3386.297	5.38	31.42	40.99	46.87	42.68	68.20	-25.52	peak
4	4430.628	6.70	32.95	41.81	49.16	47.00	68.20	-21.20	peak
5	10400.000	10.56	37.42	37.32	41.56	52.22	68.20	-15.98	peak
6	15600.000	13.99	40.78	40.41	37.94	52.30	74.00	-21.70	peak



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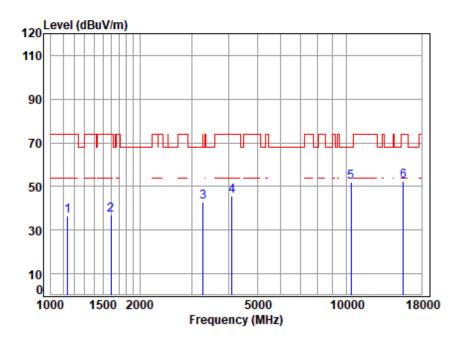
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5220 TX RSE

Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.95	39.71	48.61	36.50	74.00	-37.50	peak
2	1597.181	3.35	26.20	40.01	47.49	37.03	74.00	-36.97	peak
3	3270.858	5.23	31.13	40.91	47.22	42.67	68.20	-25.53	peak
4	4098.010	6.38	32.68	41.50	47.86	45.42	74.00	-28.58	peak
5	10400.000	10.56	37.42	37.32	41.13	51.79	68.20	-16.41	peak
6	15600.000	13.99	40.78	40.41	38.26	52.62	74.00	-21.38	peak



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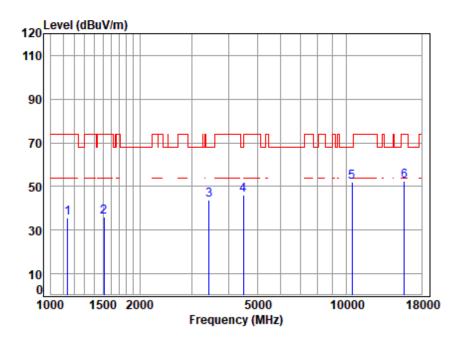
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5240 TX RSE Note : 5G WIFI 11AC20

> Cable Ant Preamp Limit 0ver Read Loss Factor Factor Level Level Limit Remark Freq Line

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1138.904	2.65	24.95	39.71	47.90	35.79	74.00	-38.21 peak
2	1511.833	3.27	25.76	39.96	47.01	36.08	74.00	-37.92 peak
3	3435.590	5.44	31.54	41.03	47.78	43.73	68.20	-24.47 peak
4	4482.150	6.74	32.99	41.86	48.20	46.07	68.20	-22.13 peak
5	10480.000	10.54	37.40	37.36	41.28	51.86	68.20	-16.34 peak
6	15720.000	14.04	40.88	40.47	37.82	52.27	74.00	-21.73 peak



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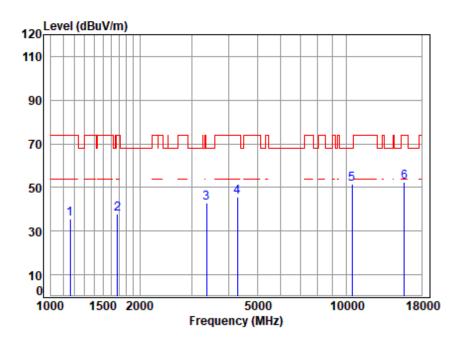
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5240 TX RSE Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1162.182	2.69	25.01	39.73	47.43	35.40	74.00	-38.60	peak
2	1677.621	3.41	26.59	40.05	47.80	37.75	74.00	-36.25	peak
3	3366.778	5.35	31.37	40.98	47.31	43.05	68.20	-25.15	peak
4	4291.977	6.57	32.84	41.68	47.79	45.52	74.00	-28.48	peak
5	10480.000	10.54	37.40	37.36	41.10	51.68	68.20	-16.52	peak
6	15720.000	14.04	40.88	40.47	38.07	52.52	74.00	-21.48	peak



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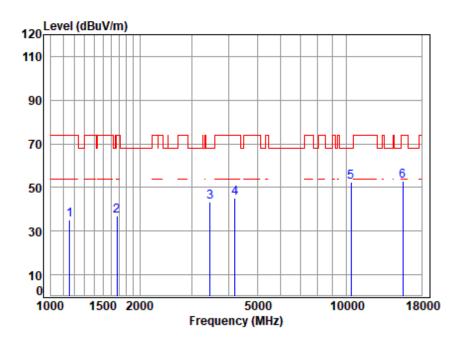
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

1

2

4

5

Mode : 5190 TX RSE Note : 5G WIFI 11AC40

> Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Freq Level Level Line MHz dB dB/m dBuV dBuV/m dBuV/m 24.99 1155.483 2.68 39.73 47.25 35.19 74.00 -38.81 peak 1672.779 3.41 26.57 40.05 46.84 36.77 74.00 -37.23 peak 3465.510 5.48 31.62 41.05 47.08 43.13 68.20 -25.07 peak 4193.872 6.47 32.76 41.59 47.36 45.00 74.00 -29.00 peak 10380.000 10.57 37.42 37.30 41.55 52.24 68.20 -15.96 peak 15570.000 13.98 40.76 40.40 38.56 52.90 74.00 -21.10 peak



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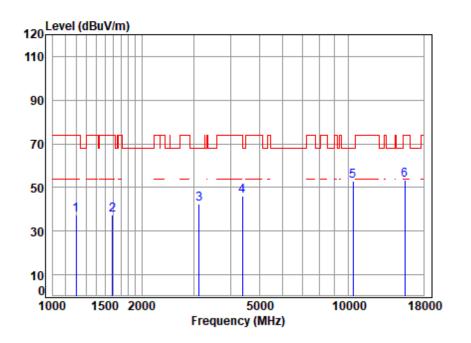
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5190 TX RSE

Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.726	2.76	25.09	39.76	49.17	37.26	74.00	-36.74	peak
2	1592.571	3.34	26.18	40.00	47.95	37.47	74.00	-36.53	peak
3	3132.079	5.04	30.76	40.80	47.46	42.46	68.20	-25.74	peak
4	4392.376	6.66	32.92	41.78	48.33	46.13	74.00	-27.87	peak
5	10380.000	10.57	37.42	37.30	42.33	53.02	68.20	-15.18	peak
6	15570.000	13.98	40.76	40.40	38.83	53.17	74.00	-20.83	peak



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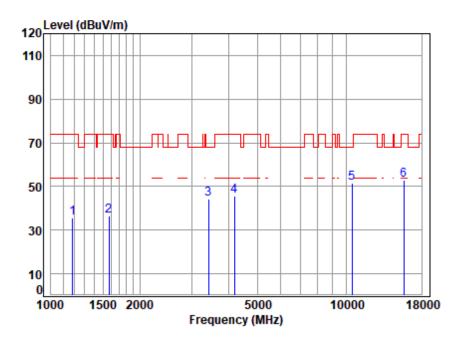
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

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	1182.513	2.73	25.05	39.75	47.70	35.73	74.00	-38.27	peak
2	1574.265	3.33	26.09	39.99	46.95	36.38	74.00	-37.62	peak
3	3425.675	5.43	31.52	41.02	48.16	44.09	68.20	-24.11	peak
4	4181.768	6.46	32.75	41.58	47.79	45.42	74.00	-28.58	peak
5	10460.000	10.54	37.41	37.35	41.03	51.63	68.20	-16.57	peak
6	15690.000	14.03	40.85	40.45	38.47	52.90	74.00	-21.10	peak



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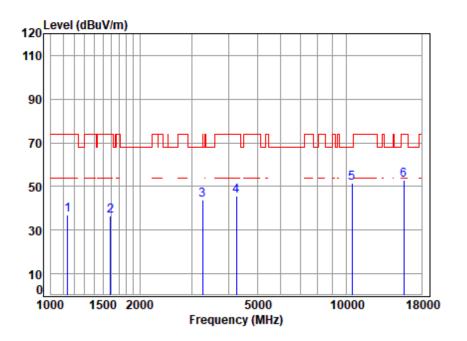
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5230 TX RSE

Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.95	39.71	48.89	36.78	74.00	-37.22	peak
2	1592.571	3.34	26.18	40.00	46.87	36.39	74.00	-37.61	peak
3	3261.418	5.22	31.10	40.90	48.41	43.83	74.00	-30.17	peak
4	4254.921	6.53	32.81	41.65	47.79	45.48	74.00	-28.52	peak
5	10460.000	10.54	37.41	37.35	40.81	51.41	68.20	-16.79	peak
6	15690.000	14.03	40.85	40.45	38.36	52.79	74.00	-21.21	peak
									-



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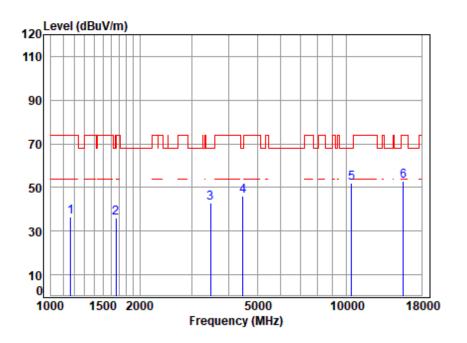
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5210 TX RSE

Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1165.546	2.70	25.02	39.73	48.63	36.62	74.00	-37.38	peak
2	1663.137	3.40	26.53	40.04	46.03	35.92	74.00	-38.08	peak
3	3475.541	5.49	31.64	41.06	46.81	42.88	68.20	-25.32	peak
4	4469.214	6.73	32.98	41.85	48.00	45.86	68.20	-22.34	peak
5	10420.000	10.56	37.42	37.33	41.21	51.86	68.20	-16.34	peak
6	15630.000	14.01	40.81	40.42	38.35	52.75	74.00	-21.25	peak



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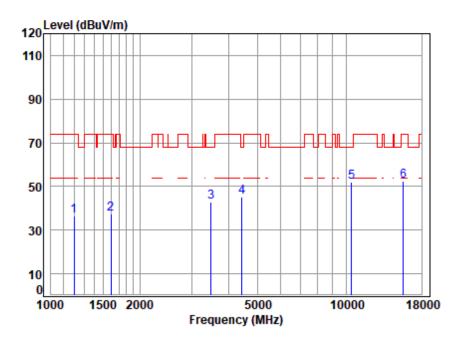
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5210 TX RSE Note : 5G WIFI 11AC80

	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
									_
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1199.726	2./6	25.09	39.76	48.42	36.51	/4.00	-3/.49	peak	
1597.181	3.35	26.20	40.01	47.98	37.52	74.00	-36.48	peak	
3485.601	5.50	31.67	41.07	46.71	42.81	68.20	-25.39	peak	
4443.453	6.71	32.96	41.82	47.30	45.15	68.20	-23.05	peak	
10420.000	10.56	37.42	37.33	41.49	52.14	68.20	-16.06	peak	
15630.000	14.01	40.81	40.42	37.97	52.37	74.00	-21.63	peak	



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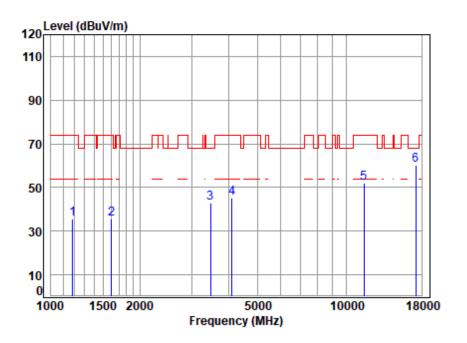
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Report No.: SZCR210402053904

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Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5745 TX RSE Note : 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1182.513	2.73	25.05	39.75	47.73	35.76	74.00	-38.24	peak
2	1601.804	3.35	26.22	40.01	45.92	35.48	74.00	-38.52	peak
3	3475.541	5.49	31.64	41.06	46.83	42.90	68.20	-25.30	peak
4	4109.872	6.39	32.69	41.51	47.68	45.25	74.00	-28.75	peak
5	11490.000	11.62	38.10	37.86	40.33	52.19	74.00	-21.81	peak
6	17235.000	14.09	42.64	40.28	44.00	60.45	68.20	-7.75	peak



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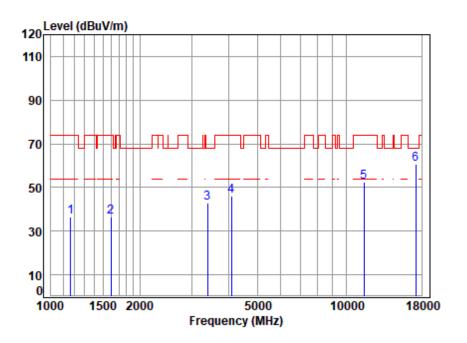
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Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5745 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						dD: 3// /==	dD: 3//m		
	MHz	dB	ub/m	dB	abuv	abuv/m	abuv/m	dB	
1	1165.546	2.70	25.02	39.73	48.36	36.35	74.00	-37.65	peak
2	1597.181	3.35	26.20	40.01	46.88	36.42	74.00	-37.58	peak
3	3396.098	5.39	31.45	41.00	46.82	42.66	68.20	-25.54	peak
4	4086.182	6.37	32.67	41.49	48.45	46.00	74.00	-28.00	peak
5	11490.000	11.62	38.10	37.86	40.64	52.50	74.00	-21.50	peak
6	17235.000	14.09	42.64	40.28	44.05	60.50	68.20	-7.70	peak



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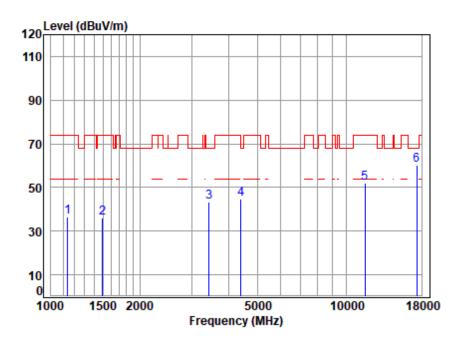
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5785 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.95	39.71	48.71	36.60	74.00	-37.40	peak
2	1494.455	3.25	25.69	39.95	47.10	36.09	74.00	-37.91	peak
3	3435.590	5.44	31.54	41.03	47.29	43.24	68.20	-24.96	peak
4	4405.090	6.67	32.93	41.79	46.94	44.75	68.20	-23.45	peak
5	11570.000	11.72	38.09	37.90	40.20	52.11	74.00	-21.89	peak
6	17355.000	14.06	42.76	40.25	43.78	60.35	68.20	-7.85	peak



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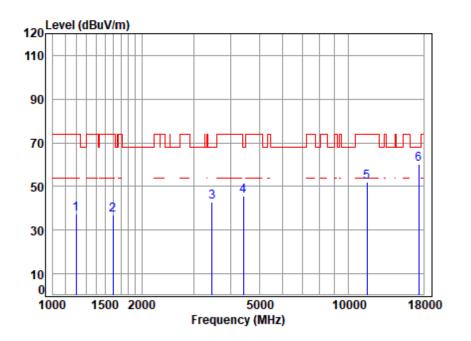
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Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5785 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	2.76	25.09	39.76	49.25	37.34	74.00	-36.66	peak
2	1597.181	3.35	26.20	40.01	47.23	36.77	74.00	-37.23	peak
3	3465.510	5.48	31.62	41.05	46.88	42.93	68.20	-25.27	peak
4	4417.841	6.68	32.94	41.80	48.00	45.82	68.20	-22.38	peak
5	11570.000	11.72	38.09	37.90	40.25	52.16	74.00	-21.84	peak
6	17355.000	14.06	42.76	40.25	43.79	60.36	68.20	-7.84	peak
									•



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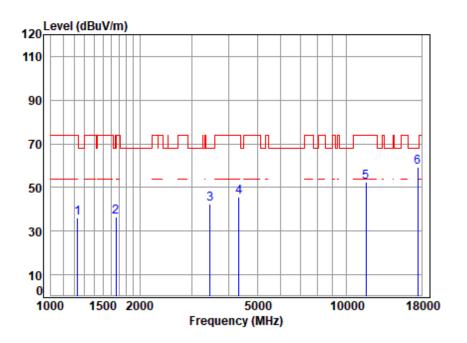
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5825 TX RSE Note : 5G WIFI 11A

	Freq			Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1231.345	2.82	25.16	39.78	47.97	36.17	74.00	-37.83	peak
2	1663.137	3.40	26.53	40.04	46.40	36.29	74.00	-37.71	peak
3	3455.508	5.47	31.59	41.04	46.26	42.28	68.20	-25.92	peak
4	4329.354	6.60	32.87	41.72	47.80	45.55	74.00	-28.45	peak
5	11650.000	11.82	38.07	37.94	40.43	52.38	74.00	-21.62	peak
6	17475.000	14.02	42.88	40.23	42.86	59.53	68.20	-8.67	peak



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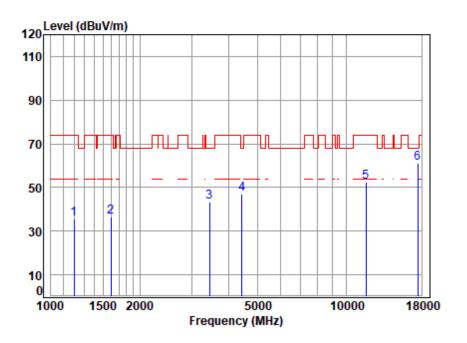
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Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5825 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			u.,			usur,	usur,		
1	1196.264	2 76	25 09	39 76	47 67	35 76	7/ 00	-38 2/	neak
_									•
2	1597.181	3.35	26.20	40.01	46.79	36.33	74.00	-37.67	peak
3	3445.535	5.45	31.57	41.04	47.21	43.19	68.20	-25.01	peak
4	4430.628	6.70	32.95	41.81	49.21	47.05	68.20	-21.15	peak
5	11650.000	11.82	38.07	37.94	40.39	52.34	74.00	-21.66	peak
6	17475.000	14.02	42.88	40.23	44.57	61.24	68.20	-6.96	peak



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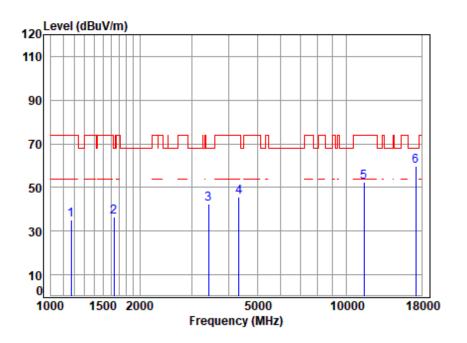
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5745 TX RSE Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1168.920	2.71	25.02	39.74	46.92	34.91	74.00	-39.09	peak
2	1634.543	3.38	26.39	40.03	46.54	36.28	68.20	-31.92	peak
3	3415.787	5.42	31.49	41.02	46.69	42.58	68.20	-25.62	peak
4	4341.886	6.61	32.88	41.73	47.83	45.59	74.00	-28.41	peak
5	11490.000	11.62	38.10	37.86	40.70	52.56	74.00	-21.44	peak
6	17235.000	14.09	42.64	40.28	43.18	59.63	68.20	-8.57	peak



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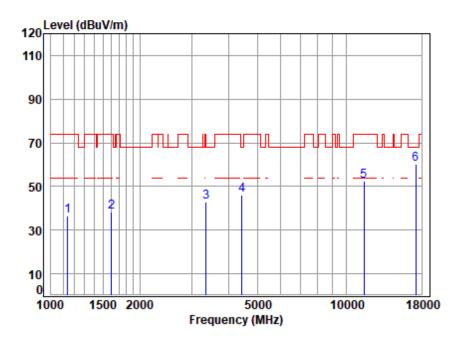
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Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5745 TX RSE Note : 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.95	39.71	48.63	36.52	74.00	-37.48	peak
2	1601.804	3.35	26.22	40.01	48.60	38.16	74.00	-35.84	peak
3	3357.061	5.34	31.35	40.97	47.33	43.05	74.00	-30.95	peak
4	4430.628	6.70	32.95	41.81	48.04	45.88	68.20	-22.32	peak
5	11490.000	11.62	38.10	37.86	40.81	52.67	74.00	-21.33	peak
6	17235.000	14.09	42.64	40.28	43.61	60.06	68.20	-8.14	peak



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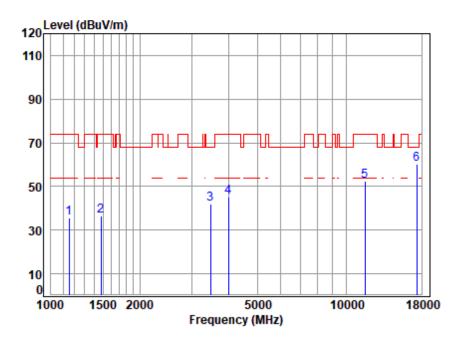
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5785 TX RSE Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	2.67	24.98	39.72	47.72	35.65	74.00	-38.35	peak
2	1477.276	3.23	25.66	39.94	47.60	36.55	74.00	-37.45	peak
3	3475.541	5.49	31.64	41.06	46.02	42.09	68.20	-26.11	peak
4	3992.781	6.27	32.59	41.40	47.58	45.04	74.00	-28.96	peak
5	11570.000	11.72	38.09	37.90	40.77	52.68	74.00	-21.32	peak
6	17355.000	14.06	42.76	40.25	43.53	60.10	68.20	-8.10	peak



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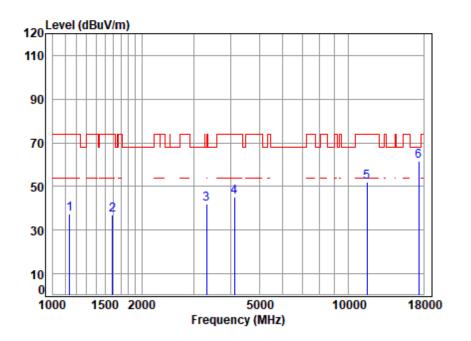
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Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5785 TX RSE Note : 5G WIFI 11N20

ote		MTLT	TIMZO						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.95	39.71	49.57	37.46	74.00	-36.54	peak
2	1592.571	3.34	26.18	40.00	47.49	37.01	74.00	-36.99	peak
3	3318.471	5.29	31.25	40.95	46.54	42.13	68.20	-26.07	peak
4	4121.768	6.40	32.70	41.52	47.42	45.00	74.00	-29.00	peak
5	11570.000	11.72	38.09	37.90	40.13	52.04	74.00	-21.96	peak
6	17355.000	14.06	42.76	40.25	44.81	61.38	68.20	-6.82	peak



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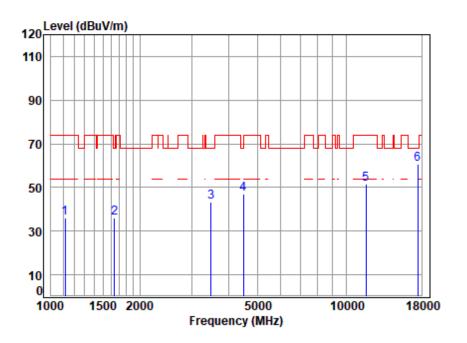
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5825 TX RSE Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
				dB	40.7/	dD:///m	dD.M/m	dB	
	MHz	dB	ub/m	ub	abuv	ubuv/m	ubuv/m	ub	
1	1116.093	2.60	24.90	39.70	48.28	36.08	74.00	-37.92	peak
2	1644.019	3.38	26.43	40.03	46.12	35.90	68.20	-32.30	peak
3	3485.601	5.50	31.67	41.07	47.29	43.39	68.20	-24.81	peak
4	4495.125	6.76	33.00	41.87	49.02	46.91	68.20	-21.29	peak
5	11650.000	11.82	38.07	37.94	39.68	51.63	74.00	-22.37	peak
6	17475.000	14.02	42.88	40.23	43.87	60.54	68.20	-7.66	peak



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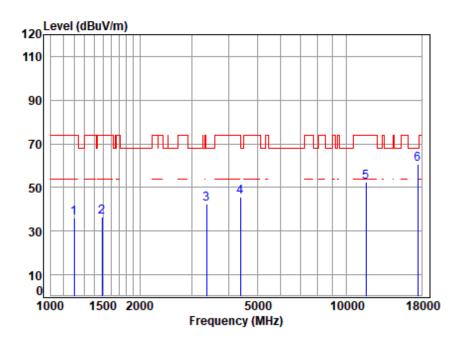
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Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5825 TX RSE : 5G WTFT 11N20 Note

Le		MTLT	TIMZO							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	1196.264	2.76	25.09	39.76	48.00	36.09	74.00	-37.91	peak	
	1490.142	3.25	25.68	39.95	47.42	36.40	74.00	-37.60	peak	
}	3366.778	5.35	31.37	40.98	46.52	42.26	68.20	-25.94	peak	
Ļ	4379.699	6.65	32.91	41.77	48.00	45.79	74.00	-28.21	peak	
,	11650.000	11.82	38.07	37.94	40.51	52.46	74.00	-21.54	peak	
,	17475.000	14.02	42.88	40.23	44.21	60.88	68.20	-7.32	peak	



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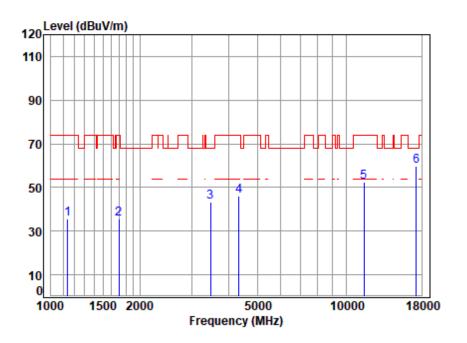
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5755 TX RSE Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.95	39.71	47.67	35.56	74.00	-38.44	peak
2	1702.042	3.43	26.71	40.06	45.49	35.57	74.00	-38.43	peak
3	3475.541	5.49	31.64	41.06	47.05	43.12	68.20	-25.08	peak
4	4329.354	6.60	32.87	41.72	48.18	45.93	74.00	-28.07	peak
5	11510.000	11.64	38.10	37.87	40.75	52.62	74.00	-21.38	peak
6	17265.000	14.08	42.67	40.28	43.41	59.88	68.20	-8.32	peak
									•



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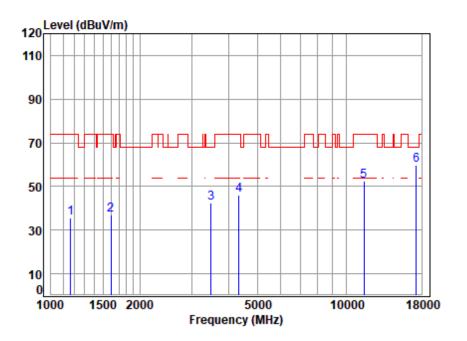
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Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5755 TX RSE Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1165.546	2.70	25.02	39.73	47.76	35.75	74.00	-38.25	peak	
2	1597.181	3.35	26.20	40.01	47.59	37.13	74.00	-36.87	peak	
3	3485.601	5.50	31.67	41.07	46.45	42.55	68.20	-25.65	peak	
4	4341.886	6.61	32.88	41.73	48.24	46.00	74.00	-28.00	peak	
5	11510.000	11.64	38.10	37.87	40.62	52.49	74.00	-21.51	peak	
6	17265.000	14.08	42.67	40.28	43.45	59.92	68.20	-8.28	peak	



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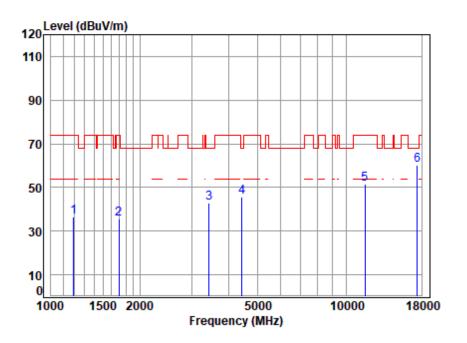
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5795 TX RSE Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1192.811	2.75	25.08	39.75	48.32	36.40	74.00	-37.60	peak
2	1697.129	3.43	26.69	40.06	45.47	35.53	74.00	-38.47	peak
3	3435.590	5.44	31.54	41.03	46.72	42.67	68.20	-25.53	peak
4	4443.453	6.71	32.96	41.82	47.81	45.66	68.20	-22.54	peak
5	11590.000	11.74	38.08	37.91	39.85	51.76	74.00	-22.24	peak
6	17385.000	14.05	42.79	40.25	43.82	60.41	68.20	-7.79	peak



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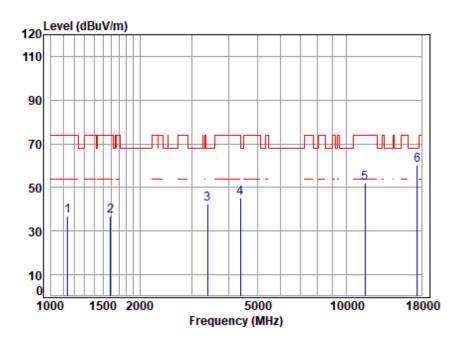
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Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT Mode

: 5795 TX RSE Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			-						
1	1138.904	2.65	24.95	39.71	48.97	36.86	74.00	-37.14	peak
2	1592.571	3.34	26.18	40.00	47.26	36.78	74.00	-37.22	peak
3	3396.098	5.39	31.45	41.00	46.58	42.42	68.20	-25.78	peak
4	4379.699	6.65	32.91	41.77	47.52	45.31	74.00	-28.69	peak
5	11590.000	11.74	38.08	37.91	40.23	52.14	74.00	-21.86	peak
6	17385.000	14.05	42.79	40.25	43.64	60.23	68.20	-7.97	peak



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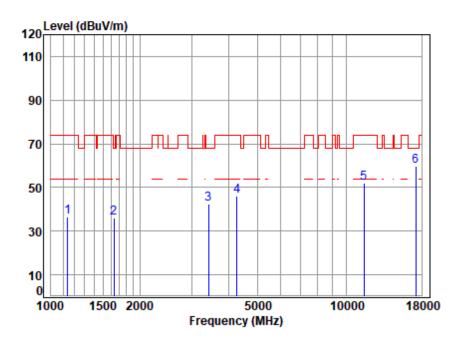
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5745 TX RSE Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.95	39.71	48.44	36.33	74.00	-37.67	peak
2	1634.543	3.38	26.39	40.03	46.23	35.97	68.20	-32.23	peak
3	3415.787	5.42	31.49	41.02	46.51	42.40	68.20	-25.80	peak
4	4267.237	6.54	32.82	41.66	48.21	45.91	74.00	-28.09	peak
5	11490.000	11.62	38.10	37.86	40.29	52.15	74.00	-21.85	peak
6	17235.000	14.09	42.64	40.28	43.35	59.80	68.20	-8.40	peak



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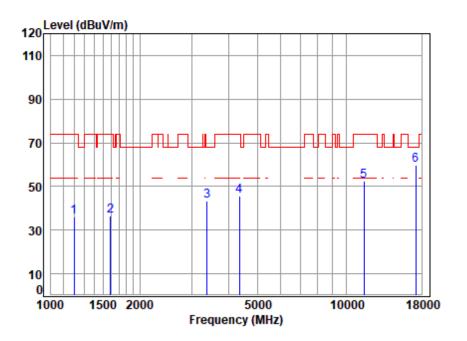
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5745 TX RSE

Note : 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	2.76	25.09	39.76	47.96	36.05	74.00	-37.95	peak
2	1592.571	3.34	26.18	40.00	46.87	36.39	74.00	-37.61	peak
3	3376.523	5.37	31.40	40.99	47.38	43.16	68.20	-25.04	peak
4	4354.454	6.63	32.89	41.74	48.00	45.78	74.00	-28.22	peak
5	11490.000	11.62	38.10	37.86	40.72	52.58	74.00	-21.42	peak
6	17235.000	14.09	42.64	40.28	43.50	59.95	68.20	-8.25	peak



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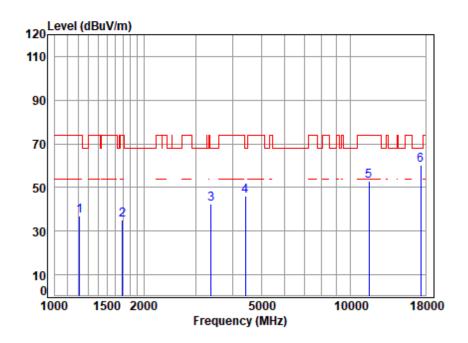
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5785 TX RSE

Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1213.677	2.79	25.13	39.77	48.66	36.81	74.00	-37.19	peak
2	1692.231	3.42	26.66	40.06	45.34	35.36	74.00	-38.64	peak
3	3376.523	5.37	31.40	40.99	46.45	42.23	68.20	-25.97	peak
4	4417.841	6.68	32.94	41.80	48.23	46.05	68.20	-22.15	peak
5	11570.000	11.72	38.09	37.90	40.81	52.72	74.00	-21.28	peak
6	17355.000	14.06	42.76	40.25	43.69	60.26	68.20	-7.94	peak



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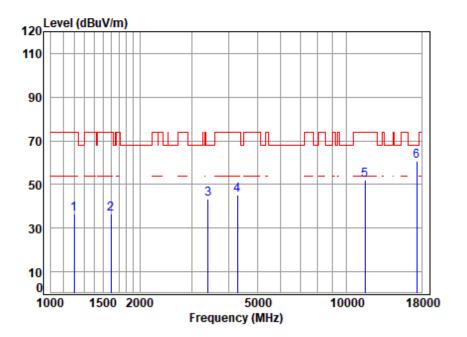
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Report No.: SZCR210402053904

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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5785 TX RSE Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	1196.264	2.76	25.09	39.76	48.36	36.45	74 00	-37.55	neak
									•
;	3405.929								•
Ļ	4279.589	6.56	32.83	41.67	47.41	45.13	74.00	-28.87	peak
,	11570.000	11.72	38.09	37.90	40.00	51.91	74.00	-22.09	peak
,	17355.000	14.06	42.76	40.25	44.16	60.73	68.20	-7.47	peak



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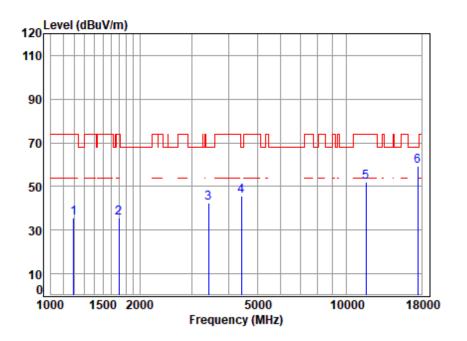
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

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	1192.811	2.75	25.08	39.75	47.44	35.52	74.00	-38.48	peak
2	1702.042	3.43	26.71	40.06	45.42	35.50	74.00	-38.50	peak
3	3415.787	5.42	31.49	41.02	46.52	42.41	68.20	-25.79	peak
4	4417.841	6.68	32.94	41.80	47.94	45.76	68.20	-22.44	peak
5	11650.000	11.82	38.07	37.94	40.22	52.17	74.00	-21.83	peak
6	17475.000	14.02	42.88	40.23	42.69	59.36	68.20	-8.84	peak



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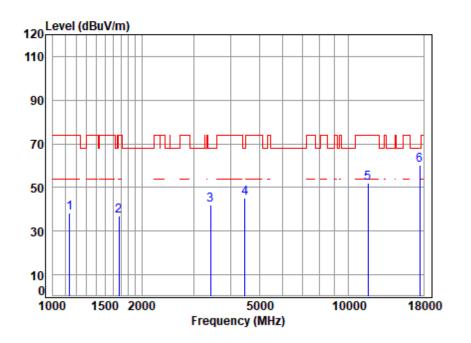
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5825 TX RSE Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.95	39.71	50.26	38.15	74.00	-35.85	peak
2	1672.779	3.41	26.57	40.05	47.13	37.06	74.00	-36.94	peak
3	3425.675	5.43	31.52	41.02	46.26	42.19	68.20	-26.01	peak
4	4469.214	6.73	32.98	41.85	47.33	45.19	68.20	-23.01	peak
5	11650.000	11.82	38.07	37.94	40.15	52.10	74.00	-21.90	peak
6	17475.000	14.02	42.88	40.23	43.75	60.42	68.20	-7.78	peak



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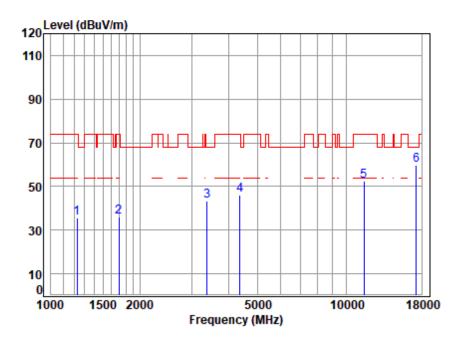
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5755 TX RSE

Note : 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB		——dB				——dB	
1	1227.791	2.82	25.16	39.78	47.27	35.47	74.00	-38.53	peak
2	1697.129	3.43	26.69	40.06	46.06	36.12	74.00	-37.88	peak
3	3386.297	5.38	31.42	40.99	47.34	43.15	68.20	-25.05	peak
4	4367.058	6.64	32.90	41.75	48.23	46.02	74.00	-27.98	peak
5	11510.000	11.64	38.10	37.87	40.44	52.31	74.00	-21.69	peak
6	17265.000	14.08	42.67	40.28	43.27	59.74	68.20	-8.46	peak



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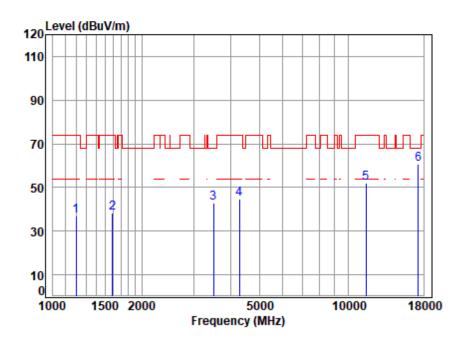
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5755 TX RSE Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			u.,				usur,		
1	1196.264	2 76	25 09	39 76	/18 81	36 90	7/ 00	-37 10	neak
_									•
2	1592.571	3.34	26.18	40.00	48.68	38.20	74.00	-35.80	peak
3	3495.691	5.51	31.69	41.07	46.87	43.00	68.20	-25.20	peak
4	4291.977	6.57	32.84	41.68	47.10	44.83	74.00	-29.17	peak
5	11510.000	11.64	38.10	37.87	40.33	52.20	74.00	-21.80	peak
6	17265.000	14.08	42.67	40.28	44.06	60.53	68.20	-7.67	peak



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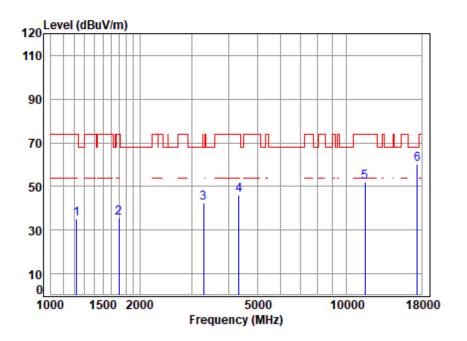
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5795 TX RSE Note

: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1220.714	2.80	25.14	39.77	47.15	35.32	74.00	-38.68	peak
2	1702.042	3.43	26.71	40.06	45.58	35.66	74.00	-38.34	peak
3	3289.821	5.25	31.18	40.92	46.77	42.28	68.20	-25.92	peak
4	4341.886	6.61	32.88	41.73	48.20	45.96	74.00	-28.04	peak
5	11590.000	11.74	38.08	37.91	40.15	52.06	74.00	-21.94	peak
6	17385.000	14.05	42.79	40.25	43.67	60.26	68.20	-7.94	peak



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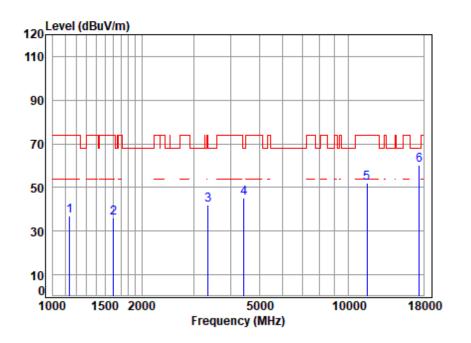
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5795 TX RSE

Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.95	39.71	48.88	36.77	74.00	-37.23	peak
2	1601.804	3.35	26.22	40.01	46.58	36.14	74.00	-37.86	peak
3	3357.061	5.34	31.35	40.97	46.36	42.08	74.00	-31.92	peak
4	4443.453	6.71	32.96	41.82	47.54	45.39	68.20	-22.81	peak
5	11590.000	11.74	38.08	37.91	40.19	52.10	74.00	-21.90	peak
6	17385.000	14.05	42.79	40.25	43.69	60.28	68.20	-7.92	peak



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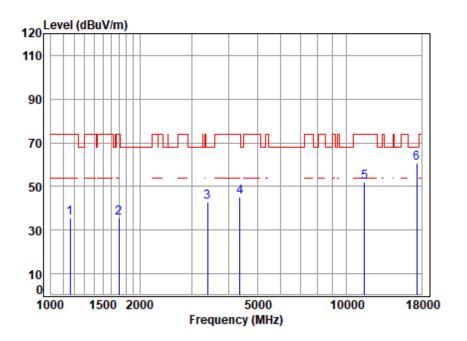
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Report No.: SZCR210402053904

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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5775 TX RSE

Note : 5G WIFI 11AC80

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1162.182	2.69	25.01	39.73	47.55	35.52	74.00	-38.48	peak
2	1702.042	3.43	26.71	40.06	45.43	35.51	74.00	-38.49	peak
3	3396.098	5.39	31.45	41.00	46.92	42.76	68.20	-25.44	peak
4	4367.058	6.64	32.90	41.75	47.61	45.40	74.00	-28.60	peak
5	11550.000	11.69	38.09	37.89	40.21	52.10	74.00	-21.90	peak
6	17325.000	14.07	42.73	40.26	44.15	60.69	68.20	-7.51	peak



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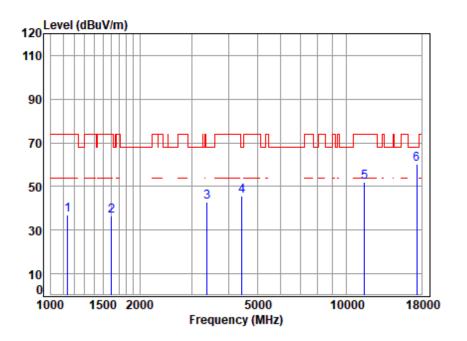
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5775 TX RSE Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.95	39.71	49.22	37.11	74.00	-36.89	peak
2	1601.804	3.35	26.22	40.01	47.00	36.56	74.00	-37.44	peak
3	3386.297	5.38	31.42	40.99	47.09	42.90	68.20	-25.30	peak
4	4443.453	6.71	32.96	41.82	47.61	45.46	68.20	-22.74	peak
5	11550.000	11.69	38.09	37.89	40.18	52.07	74.00	-21.93	peak
6	17325.000	14.07	42.73	40.26	43.76	60.30	68.20	-7.90	peak



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7.9 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 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.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C Humidity: 54.1 % RH Atmospheric Pressure: 1010 mbar



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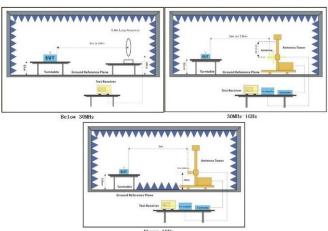
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7.9.2 Test Mode Description

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). 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). Only the data of worst case is recorded in the report.						

7.9.3 Test Setup Diagram





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7.9.4 Measurement Procedure and Data

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

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

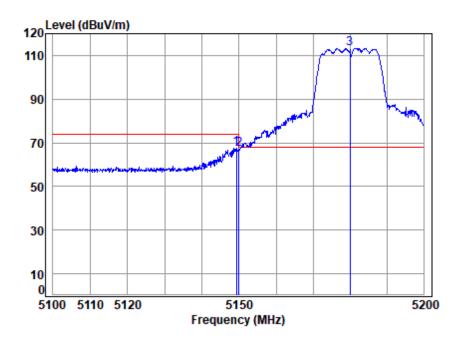




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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No

Mode : 5180 Band edge

: 5G WIFI 11A

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.257	7.57	34.06	42.32	68.37	67.68	74.00	-6.32	peak
2	5149.980	7.57	34.06	42.32	67.74	67.05	74.00	-6.95	peak
3 .	5180.000	7.63	34.07	42.32	113.92	113.30	68.20	45.10	peak



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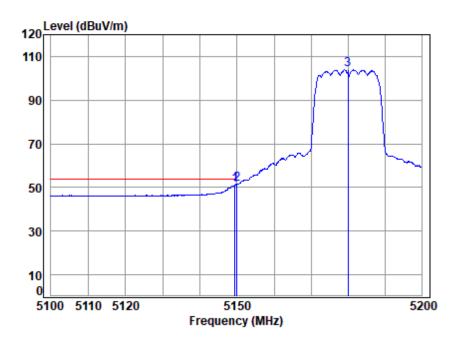
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

1 2 3

Mode : 5180 Band edge

: 5G WIFI 11A

Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5149.357								_
5149.980	7.57	34.06	42.32	52.10	51.41	54.00	-2.59	Average
5180.000	7.63	34.07	42.32	104.53	103.91			Average



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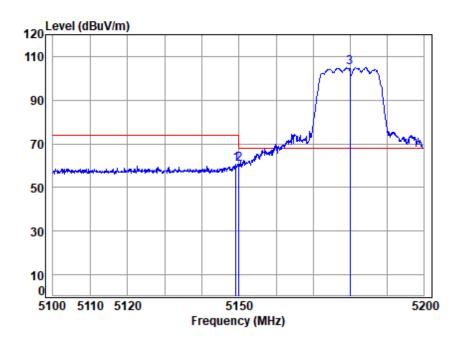
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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5180 Band edge

: 5G WIFI 11A

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.157	7.57	34.06	42.32	61.18	60.49	74.00	-13.51	peak
2	5149.980	7.57	34.06	42.32	61.56	60.87	74.00	-13.13	peak
3	. 5180.000	7.63	34.07	42.32	105.61	104.99	68.20	36.79	peak



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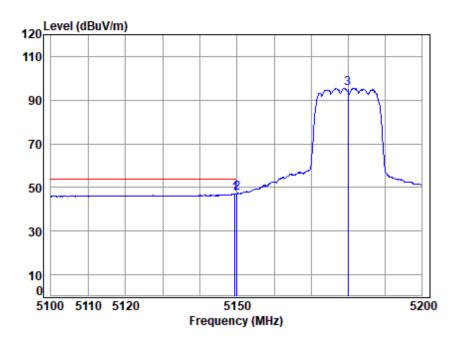
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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

1 2 3

Mode : 5180 Band edge

: 5G WIFI 11A

Freq			Preamp Factor					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5149.458 5149.980 5180.000	7.57	34.06	42.32	47.94	47.25	54.00	-6.75	Average



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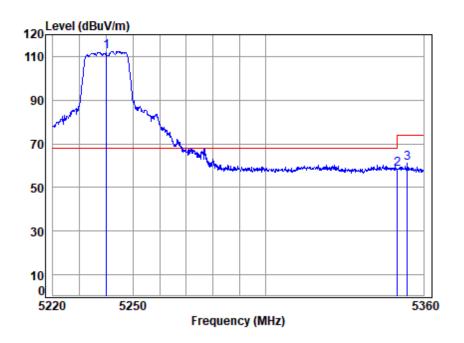
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

1 2 3

Mode : 5240 Band edge

: 5G WIFI 11A

Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5240.000	7.73	34.10	42.33	112.85	112.35	68.20	44.15	peak
5350.020	7.92	34.14	42.34	58.86	58.58	74.00	-15.42	peak
5353.762	7.93	34.14	42.34	61.27	61.00	74.00	-13.00	peak



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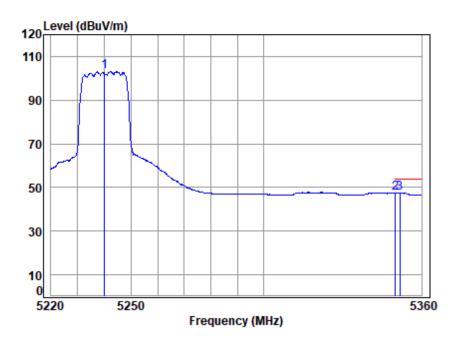
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

1 2 3

Mode : 5240 Band edge

: 5G WIFI 11A

Freq					Level			Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5240.000	7.73	34.10	42.33	103.64	103.14			Average
5350.020	7.92	34.14	42.34	47.70	47.42	54.00	-6.58	Average
5351.778	7.93	34.14	42.34	47.78	47.51	54.00	-6.49	Average



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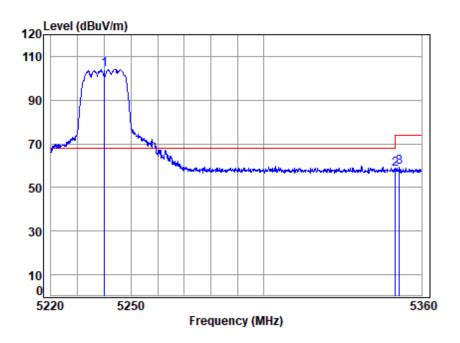
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

1 2 3

Mode : 5240 Band edge

: 5G WIFI 11A

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	. 5240.000	7.73	34.10	42.33	104.61	104.11	68.20	35.91	peak
	5350.020	7.92	34.14	42.34	58.67	58.39	74.00	-15.61	peak
;	5351.495	7.93	34.14	42.34	59.47	59.20	74.00	-14.80	peak



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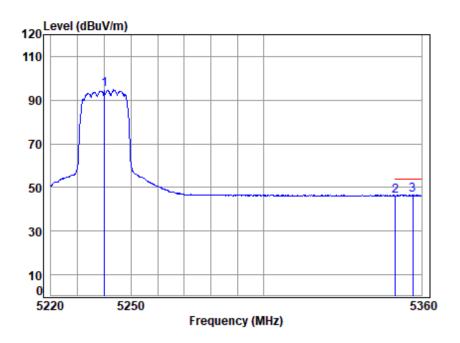
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Report No.: SZCR210402053904

Page: 97 of 278

Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Job No

1 2 3

Condition: 3m VERTICAL

: 20539AT Mode : 5240 Band edge

: 5G WIFI 11A

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5240.000								_
5350.020 5356.738								_



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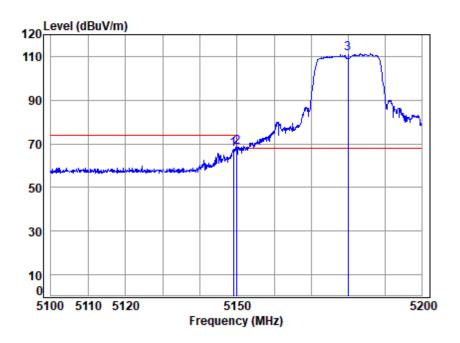
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No

Mode : 5180 Band edge

: 5G WIFI 11N20

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.057	7.57	34.06	42.32	68.28	67.59	74.00	-6.41	peak
2	5149.980	7.57	34.06	42.32	69.35	68.66	74.00	-5.34	peak
3	. 5180.000	7.63	34.07	42.32	111.86	111.24	68.20	43.04	peak



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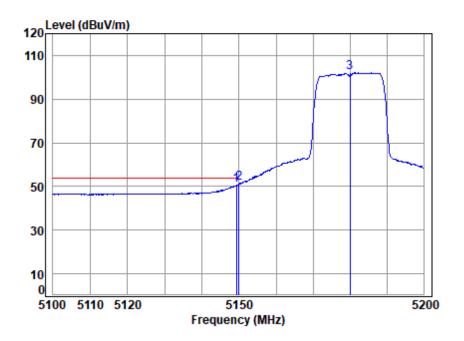
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No

Mode : 5180 Band edge

: 5G WIFI 11N20

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	5149.257 5149.980 5180.000	7.57	34.06	42.32	52.07	51.38	54.00	-2.62	Average



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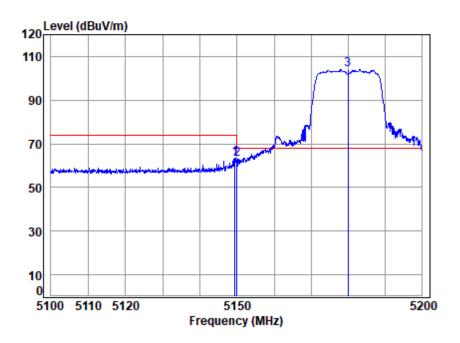
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5180 Band edge

: 5G WIFI 11N20

	_								
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	F140 2F7	7 [7	24.00	42.22	64.20	63.60	74.00	10 10	
	5149.357								•
	5149.980								•
3	. 5180.000	7.63	34.07	42.32	104.50	103.88	68.20	35.68	peak



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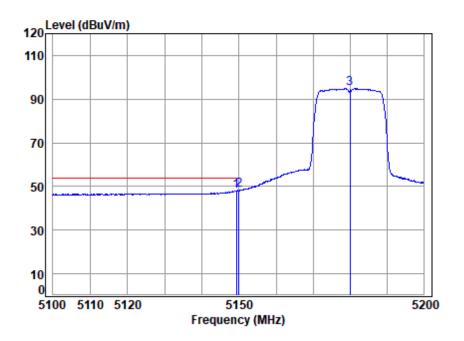
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5180 Band edge

: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5149.257	7.57	34.06	42.32	48.79	48.10	54.00	-5.90	Average	
2	5149.980	7.57	34.06	42.32	49.07	48.38	54.00	-5.62	Average	
3	5180.000	7.63	34.07	42.32	95.57	94.95			Average	



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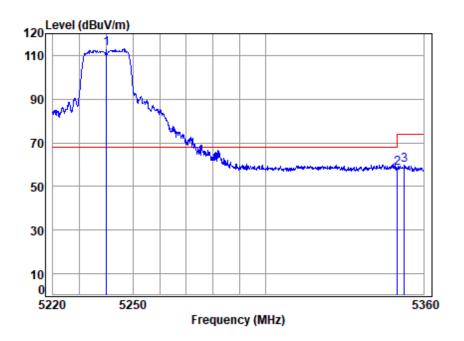
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No

1 2 3

Mode : 5240 Band edge

: 5G WIFI 11N20

Freq					Level			Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5240.000 5350.020								•
5352 628	7 93	3/1 1/1	12 31	60 11	59 8/	7/ 00	_1/ 16	neak



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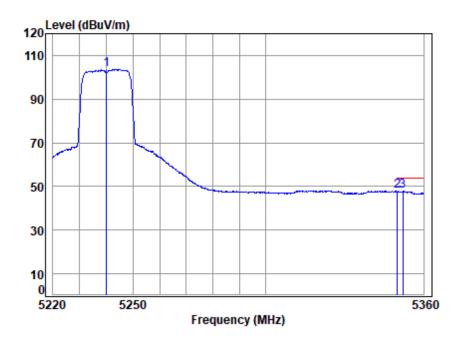
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5240 Band edge

: 5G WIFI 11N20

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	7.73	34.10	42.33	104.07	103.57			Average
2	5350.020	7.92	34.14	42.34	47.99	47.71	54.00	-6.29	Average
3	5352.062	7.93	34.14	42.34	48.01	47.74	54.00	-6.26	Average



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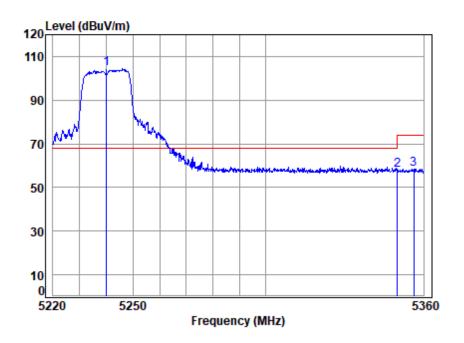
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5240 Band edge

: 5G WIFI 11N20

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	. 5240.000	7.73	34.10	42.33	104.79	104.29	68.20	36.09	peak
2	5350.020	7.92	34.14	42.34	58.33	58.05	74.00	-15.95	peak
3	5356.171	7.94	34.14	42.34	58.77	58.51	74.00	-15.49	peak



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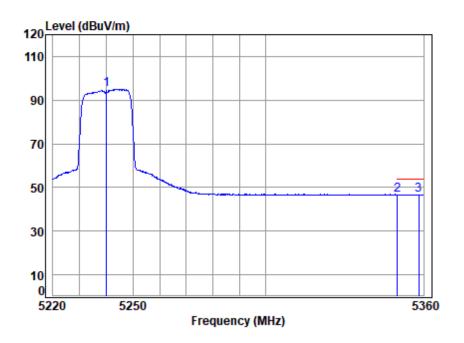
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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5240 Band edge

: 5G WIFI 11N20

			Preamp						
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
5240.000	7.73	34.10	42.33	95.40	94.90			Average	
5350.020	7.92	34.14	42.34	46.93	46.65	54.00	-7.35	Average	
5358 156	7 94	34 15	42 34	47 01	46 76	54 00	-7 24	Average	



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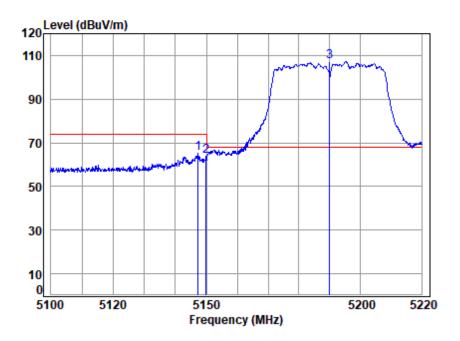
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No

Mode : 5190 Band edge

: 5G WIFI 11N40

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.306	7.57	34.06	42.32	65.93	65.24	74.00	-8.76	peak
2	5149.980	7.57	34.06	42.32	64.40	63.71	74.00	-10.29	peak
3	. 5190.000	7.64	34.08	42.32	107.94	107.34	68.20	39.14	peak



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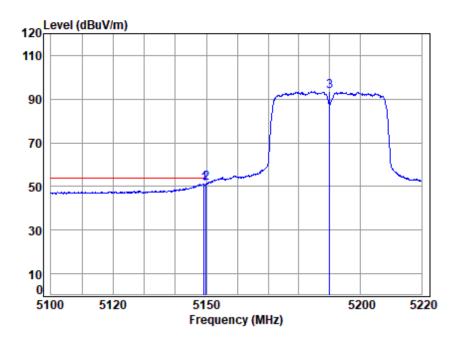
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Report No.: SZCR210402053904

Page: 107 of 278

Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No

1 2 3

Mode : 5190 Band edge

: 5G WIFI 11N40

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5149.342	7.57	34.06	42.32	51.97	51.28	54.00	-2.72	Average
5149.980	7.57	34.06	42.32	52.10	51.41	54.00	-2.59	Average
5190.000	7.64	34.08	42.32	94.03	93.43			Average



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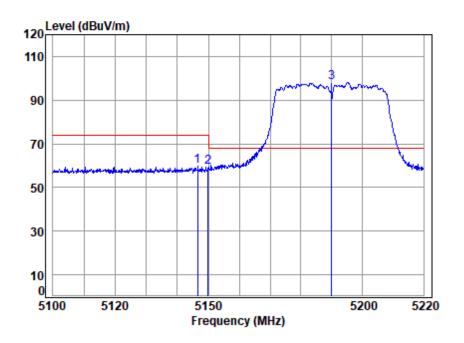
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Report No.: SZCR210402053904

Page: 108 of 278

Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

1 2

Mode : 5190 Band edge

: 5G WIFI 11N40

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
5146.588								-	
5149.980 5190 000								•	



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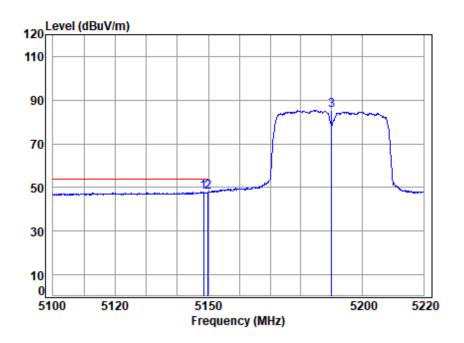
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT Mode : 5190 Band edge

: 5G WIFI 11N40

Cable Ant Preamp Freq Loss Factor Factor Level Level Limit Over Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dB dBuV dBuV/m dBuV/m										
MHz dB dB/m dB dBuV dBuV/m dBuV/m dB dBuV/m dB 5148.503 7.57 34.06 42.32 48.80 48.11 54.00 -5.89 Average 5149.980 7.57 34.06 42.32 48.64 47.95 54.00 -6.05 Average	_									
5148.503 7.57 34.06 42.32 48.80 48.11 54.00 -5.89 Average 5149.980 7.57 34.06 42.32 48.64 47.95 54.00 -6.05 Average	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Kemark	
5149.980 7.57 34.06 42.32 48.64 47.95 54.00 -6.05 Average	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
-	5148.503	7.57	34.06	42.32	48.80	48.11	54.00	-5.89	Average	
5190.000 7.64 34.08 42.32 85.93 85.33 Average	5149.980	7.57	34.06	42.32	48.64	47.95	54.00	-6.05	Average	
	5190.000	7.64	34.08	42.32	85.93	85.33			Average	



1 2 3

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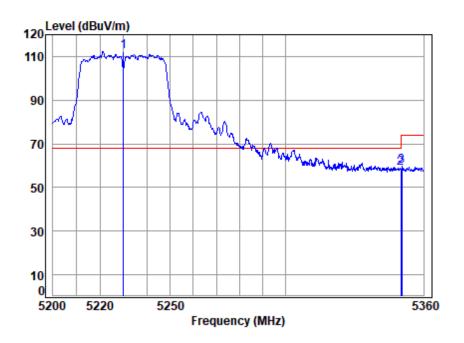
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Report No.: SZCR210402053904

Page: 110 of 278

Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

1 2 3

Mode : 5230 Band edge

: 5G WIFI 11N40

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	. 5230.000	7.72	34.09	42.32	112.71	112.20	68.20	44.00	peak
	5350.020	7.92	34.14	42.34	59.05	58.77	74.00	-15.23	peak
;	5350.587	7.93	34.14	42.34	59.96	59.69	74.00	-14.31	peak



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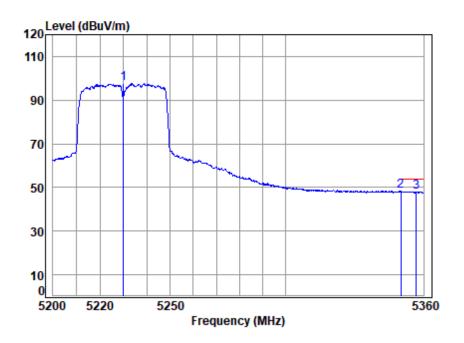
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

1 2 3

Mode : 5230 Band edge

: 5G WIFI 11N40

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
5230.000	7.72	34.09	42.32	98.05	97.54			Average	
5350.020	7.92	34.14	42.34	48.55	48.27	54.00	-5.73	Average	
5356.752	7.94	34.14	42.34	48.38	48.12	54.00	-5.88	Average	



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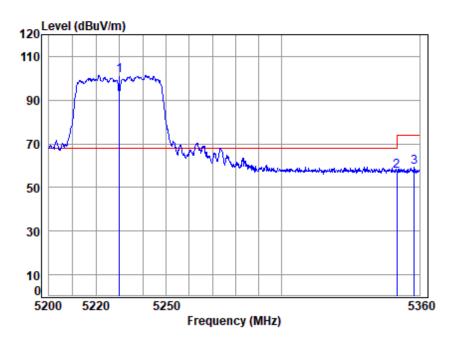
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Job No

1 2 3

Condition: 3m VERTICAL

: 20539AT Mode : 5230 Band edge

5G WTFT 11N40

. 30	MTLT	111140						
	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
. 5230.000	7.72	34.09	42.32	101.94	101.43	68.20	33.23	peak
5350.020	7.92	34.14	42.34	57.96	57.68	74.00	-16.32	peak
5357.727	7.94	34.15	42.34	59.69	59.44	74.00	-14.56	peak



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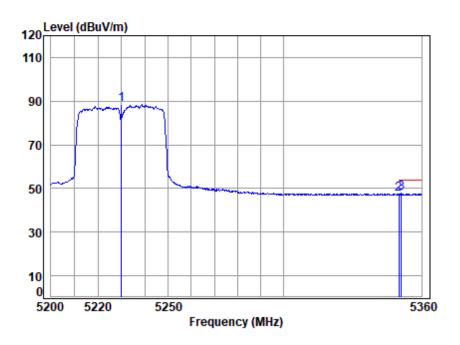
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5230 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	5230.000	7.72	34.09	42.32	88.93	88.42			Average
2	5350.020	7.92	34.14	42.34	47.59	47.31	54.00	-6.69	Average
3	5351,073	7.93	34.14	42.34	48 09	47 82	54 00	-6 18	Average



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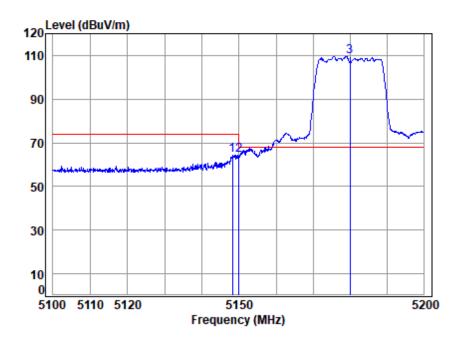
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No

Mode : 5180 Band edge

: 5G WIFI 11AC20

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.257	7.57	34.06	42.32	65.06	64.37	74.00	-9.63	peak
2	5149.980	7.57	34.06	42.32	64.87	64.18	74.00	-9.82	peak
3	. 5180.000	7.63	34.07	42.32	110.21	109.59	68.20	41.39	peak



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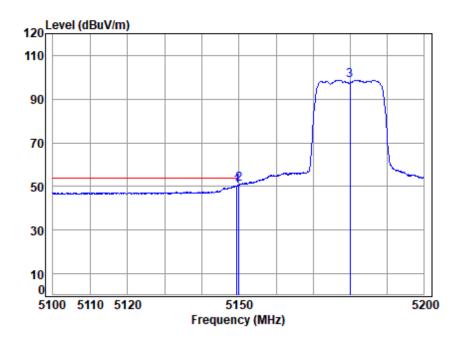
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No

1 2 3

Mode : 5180 Band edge

: 5G WIFI 11AC20

	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5149.357	7.57	34.06	42.32	51.03	50.34	54.00	-3.66	Average	
5149.980	7.57	34.06	42.32	51.90	51.21	54.00	-2.79	Average	
5180.000	7.63	34.07	42.32	99.37	98.75			Average	



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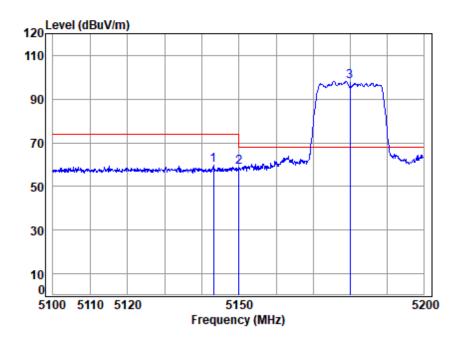
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5180 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5143.062	7.56	34.06	42.32	60.62	59.92	74.00	-14.08	peak
2	5149.980	7.57	34.06	42.32	59.55	58.86	74.00	-15.14	peak
3.	5180.000	7.63	34.07	42.32	98.65	98.03	68.20	29.83	peak



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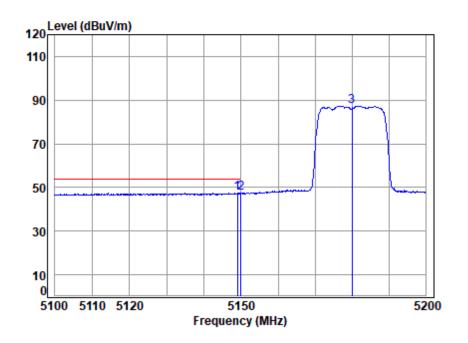
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5180 Band edge

: 5G WIFI 11AC20

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5149.057	7.57	34.06	42.32	48.27	47.58	54.00	-6.42	Average
5149.980	7.57	34.06	42.32	48.35	47.66	54.00	-6.34	Average
5180.000	7.63	34.07	42.32	87.96	87.34			Average



1 2 3

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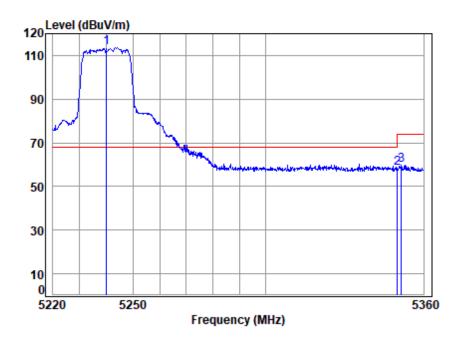
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No

Mode : 5240 Band edge

: 5G WIFI 11AC20

	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1.	5240.000	7.73	34.10	42.33	114.08	113.58	68.20	45.38	peak
2	5350.020	7.92	34.14	42.34	58.80	58.52	74.00	-15.48	peak
3	5351.495	7.93	34.14	42.34	60.25	59.98	74.00	-14.02	peak



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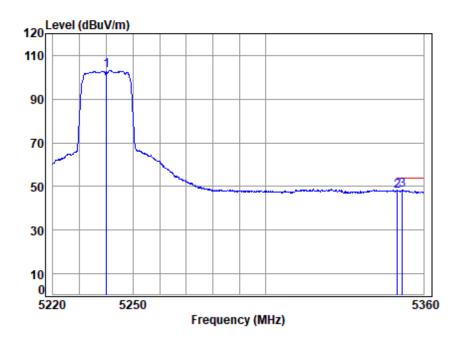
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No

1 2 3

Mode : 5240 Band edge

: 5G WIFI 11AC20

Freq						Limit Line		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5240.000	7.73	34.10	42.33	103.52	103.02			Average
5350.020	7.92	34.14	42.34	48.35	48.07	54.00	-5.93	Average
5351 920	7 93	3/1 1/1	12 3/	12 12	//2 21	5/ 00	_5 79	Avenage



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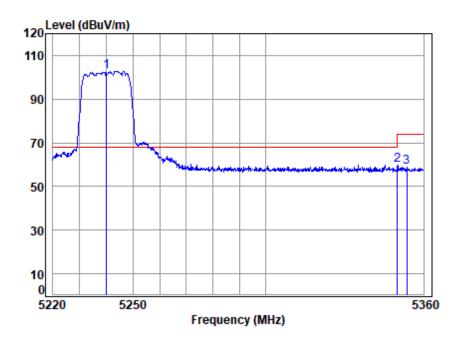
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5240 Band edge

: 5G WIFI 11AC20

Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5240.000	7.73	34.10	42.33	103.37	102.87	68.20	34.67	peak
5350.020	7.92	34.14	42.34	60.08	59.80	74.00	-14.20	peak
5353.620	7.93	34.14	42.34	59.15	58.88	74.00	-15.12	peak



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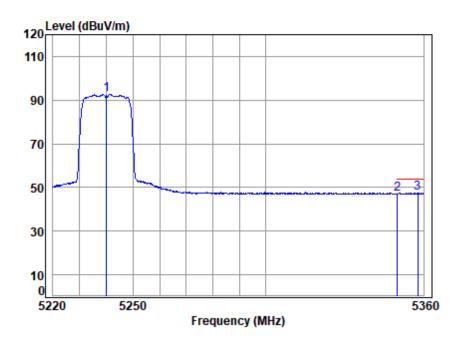
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5240 Band edge

: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5240.000	7.73	34.10	42.33	93.10	92.60			Average	
2	5350.020	7.92	34.14	42.34	47.47	47.19	54.00	-6.81	Average	
3	5357.730	7.94	34.15	42.34	47.91	47.66	54.00	-6.34	Average	



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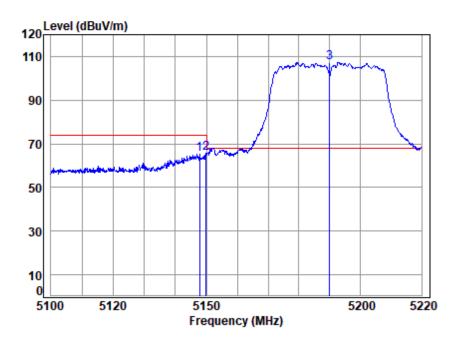
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No

Mode : 5190 Band edge

: 5G WIFI 11AC40

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.785	7.57	34.06	42.32	65.82	65.13	74.00	-8.87	peak
2	5149.980	7.57	34.06	42.32	66.42	65.73	74.00	-8.27	peak
3.	5190.000	7.64	34.08	42.32	108.03	107.43	68.20	39.23	peak



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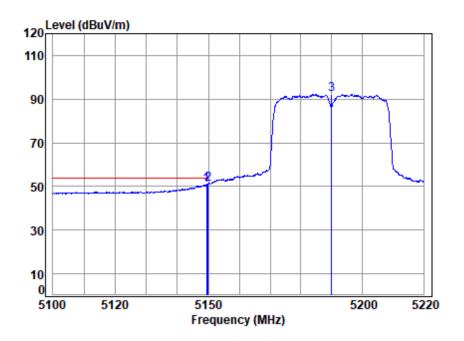
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No

1 2 3

Mode : 5190 Band edge

: 5G WIFI 11AC40

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
5149.461	7.57	34.06	42.32	51.37	50.68	54.00	-3.32	Average	
5149.980	7.57	34.06	42.32	51.95	51.26	54.00	-2.74	Average	
5190.000	7.64	34.08	42.32	92.91	92.31			Average	



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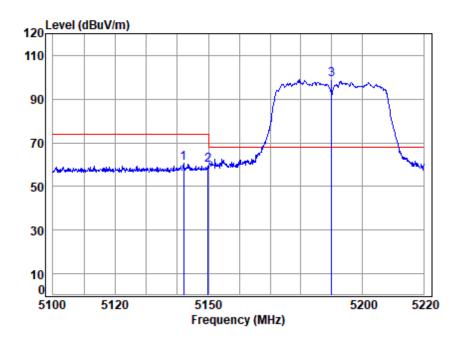
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5190 Band edge

: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5142.042	7.56	34.06	42.32	61.50	60.80	74.00	-13.20	peak
2	5149.980	7.57	34.06	42.32	60.37	59.68	74.00	-14.32	peak
3 .	. 5190.000	7.64	34.08	42.32	99.51	98.91	68.20	30.71	peak



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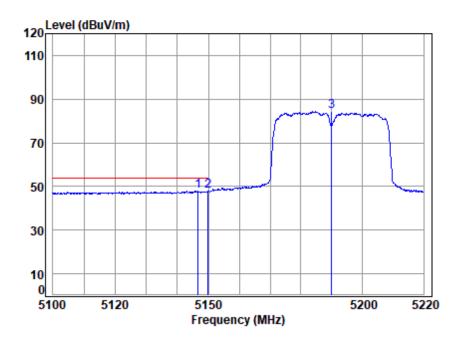
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

1 2 3

Mode : 5190 Band edge

: 5G WIFI 11AC40

Freq			Preamp Factor					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5146.708	7.57	34.06	42.32	48.50	47.81	54.00	-6.19	Average
5149.980	7.57	34.06	42.32	48.67	47.98	54.00	-6.02	Average
5190 000	7 64	3/1 08	12 32	8/1 97	8/1 37			Λυρρασο



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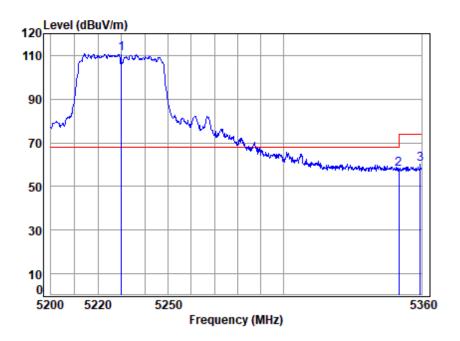
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No

1 2 3

Mode : 5230 Band edge

: 5G WIFI 11AC40

Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
. 5230.000								•
5350.020 5359.350								•



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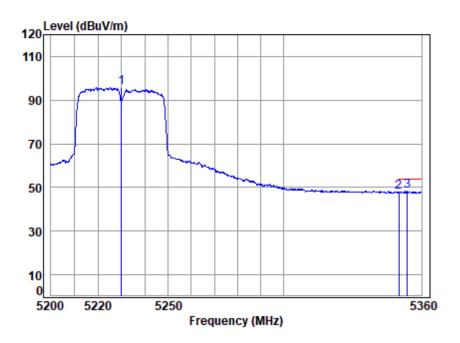
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No

1 2 3

Mode : 5230 Band edge

: 5G WIFI 11AC40

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5230.000	7.72	34.09	42.32	96.25	95.74			Average
5350.020	7.92	34.14	42.34	48.09	47.81	54.00	-6.19	Average
5353.669	7.93	34.14	42.34	48.54	48.27	54.00	-5.73	Average



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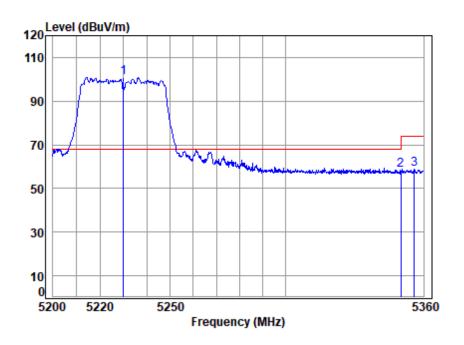
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5230 Band edge

: 5G WIFI 11AC40

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1.	5230.000	7.72	34.09	42.32	101.44	100.93	68.20	32.73	peak
2	5350.020	7.92	34.14	42.34	58.89	58.61	74.00	-15.39	peak
3	5355.940	7.93	34.14	42.34	59.13	58.86	74.00	-15.14	peak



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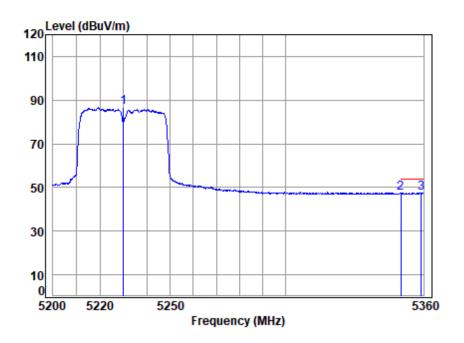
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5230 Band edge

: 5G WIFI 11AC40

			Preamp						
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
5230.000	7.72	34.09	42.32	86.99	86.48			Average	
5350.020	7.92	34.14	42.34	47.54	47.26	54.00	-6.74	Average	
5359,025	7 94	34 15	42 34	47 67	47 42	54 00	-6 58	Average	



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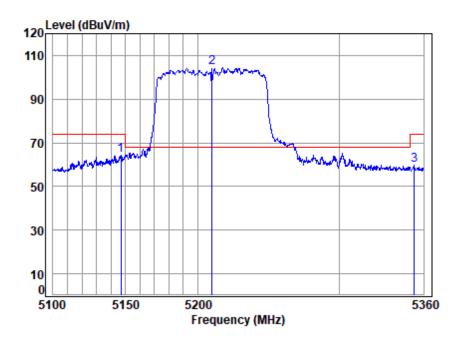
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No

1 2 3

Mode : 5210 Band edge

: 5G WIFI 11AC80

	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
5146.875	7.57	34.06	42.32	65.17	64.48	74.00	-9.52	peak	
5210.000	7.68	34.09	42.32	104.94	104.39	68.20	36.19	peak	
5353.341								-	



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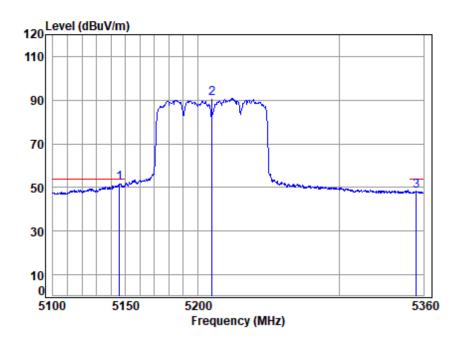
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

1 2 3

Mode : 5210 Band edge

: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	5145.851	7.57	34.06	42.32	52.63	51.94	54.00	-2.06	Average	
	5210.000	7.68	34.09	42.32	91.20	90.65			Average	
;	5354.672	7.93	34.14	42.34	48.47	48.20	54.00	-5.80	Average	



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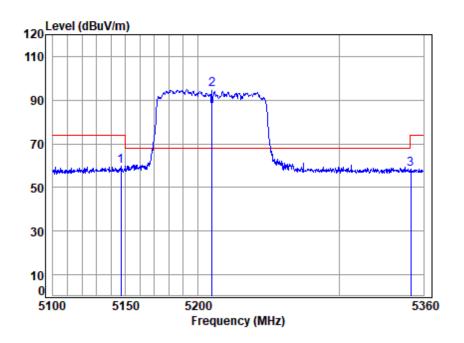
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Report No.: SZCR210402053904

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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5210 Band edge

: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.875	7.57	34.06	42.32	60.57	59.88	74.00	-14.12	peak
2	. 5210.000	7.68	34.09	42.32	95.38	94.83	68.20	26.63	peak
3	5350.946	7.93	34.14	42.34	58.76	58.49	74.00	-15.51	neak



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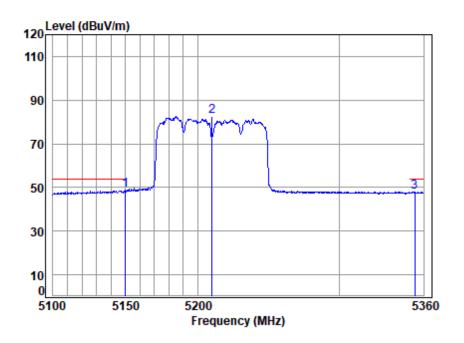
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5210 Band edge

: 5G WIFI 11AC80

F===			Preamp						
Freq	LOSS	Factor	Factor	revei	rever	Line	Limit	Kemark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5149.947	7.57	34.06	42.32	49.31	48.62	54.00	-5.38	Average	
5210.000	7.68	34.09	42.32	82.93	82.38			Average	
5353.607	7.93	34.14	42.34	48.31	48 04	54 00	-5 96	Average	



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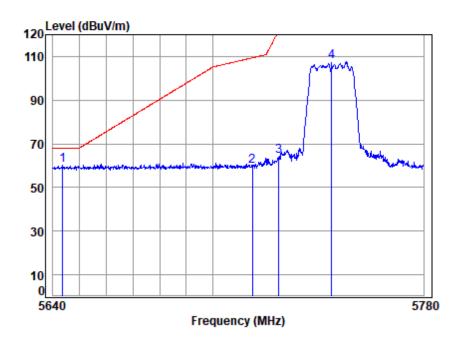
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5745 Band edge : 5G WIFI 11A Note

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5643.735	8.20	34.32	42.37	59.93	60.08	68.20	-8.12	peak
2	5715.000	8.22	34.38	42.37	59.69	59.92	109.40	-49.48	peak
3	5725.000	8.22	34.38	42.37	64.32	64.55	122.20	-57.65	peak
4	5745.000	8.22	34.40	42.38	107.30	107.54			peak



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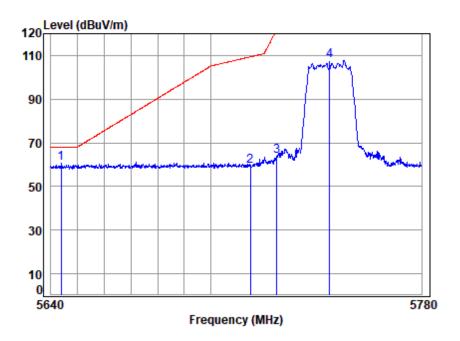
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Report No.: SZCR210402053904

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Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5745 Band edge Note : 5G WIFI 11A

	-				Read				ь .
	Freq	Loss	Factor	Factor	revel	revel	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5643.874	8.20	34.32	42.37	60.50	60.65	68.20	-7.55	peak
2	5715.000	8.22	34.38	42.37	59.12	59.35	109.40	-50.05	peak
3	5725.000	8.22	34.38	42.37	63.69	63.92	122.20	-58.28	peak
4	5745.000	8.22	34.40	42.38	107.36	107.60			peak



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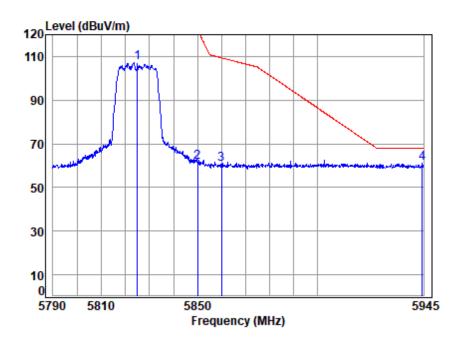
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5825 Band edge : 5G WIFI 11A Note

	. 50	AATI T	114							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	5825.000	8.23	34.46	42.38	106.81	107.12			peak	
2	5850.000	8.24	34.48	42.39	61.49	61.82	122.20	-60.38	peak	
}	5860.000	8.24	34.49	42.39	60.36	60.70	109.40	-48.70	peak	
L	5944.529	8.25	34.56	42.39	60.90	61.32	68.20	-6.88	peak	



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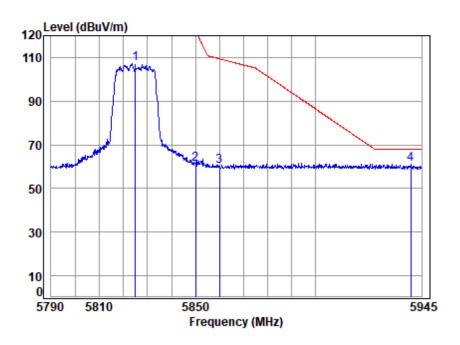
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Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5825 Band edge : 5G WIFI 11A Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.23	34.46	42.38	106.74	107.05			peak
2	5850.000	8.24	34.48	42.39	60.66	60.99	122.20	-61.21	peak
3	5860.000	8.24	34.49	42.39	60.02	60.36	109.40	-49.04	peak
4	5940.447	8.25	34.55	42.39	60.84	61.25	68.20	-6.95	peak



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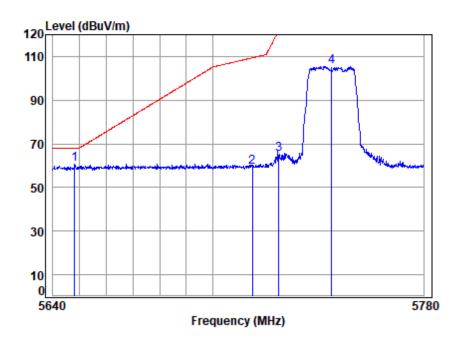
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Report No.: SZCR210402053904

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Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5745 Band edge : 5G WTFT 11N20 Note

ote	. 50	MTLT	TINZO							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	d Bu V/m	d Bu V/m	dB		
1	5648.026	8.20	34.32	42.37	60.46	60.61	68.20	-7.59	peak	
2	5715.000	8.22	34.38	42.37	59.11	59.34	109.40	-50.06	peak	
3	5725.000	8.22	34.38	42.37	64.98	65.21	122.20	-56.99	peak	
4	5745.000	8.22	34.40	42.38	105.25	105.49			peak	



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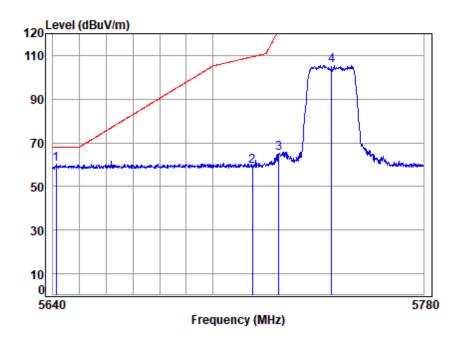
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Report No.: SZCR210402053904

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Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5745 Band edge : 5G WTFT 11N20 Note

ote	. 50	MILI	TINZO						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5641.245	8.20	34.32	42.37	59.99	60.14	68.20	-8.06	peak
2	5715.000	8.22	34.38	42.37	58.99	59.22	109.40	-50.18	peak
3	5725.000	8.22	34.38	42.37	65.20	65.43	122.20	-56.77	peak
4	5745.000	8.22	34.40	42.38	105.09	105.33			peak



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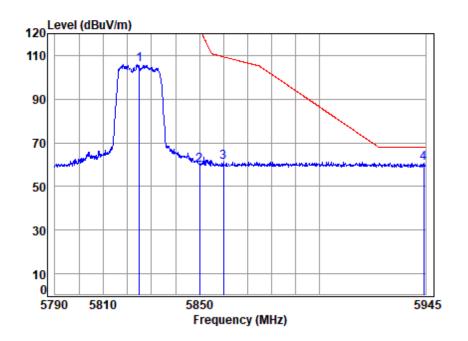
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5825 Band edge : 5G WIFI 11N20 Note

Freq						Limit Line		Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
5825.000								•	
5850.000	8.24	34.48	42.39	59.45	59.78	122.20	-62.42	peak	
5860.000	8.24	34.49	42.39	60.61	60.95	109.40	-48.45	peak	
5944.215								•	



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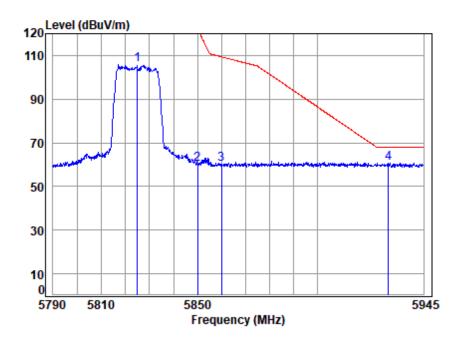
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Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5825 Band edge : 5G WTFT 11N20 Note

ote	. 50	MTLT	TINZO							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	d Bu V/m	dB		
1	5825.000	8.23	34.46	42.38	105.36	105.67			peak	
2	5850.000	8.24	34.48	42.39	59.97	60.30	122.20	-61.90	peak	
3	5860.000	8.24	34.49	42.39	59.84	60.18	109.40	-49.22	peak	
4	5930.098	8.25	34.55	42.39	60.37	60.78	68.20	-7.42	peak	



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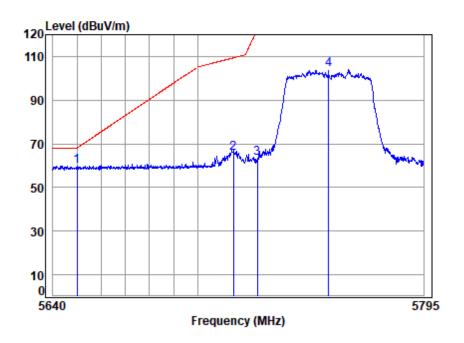
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No

Mode : 5755 Band edge : 5G WIFI 11N40 Note

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5649.948								•
	5715.000	8.22	34.38	42.37	65.46	65.69	109.40	-43.71	peak
}	5725.000	8.22	34.38	42.37	63.34	63.57	122.20	-58.63	peak
ļ	5755.000	8.22	34.41	42.38	103.83	104.08			peak



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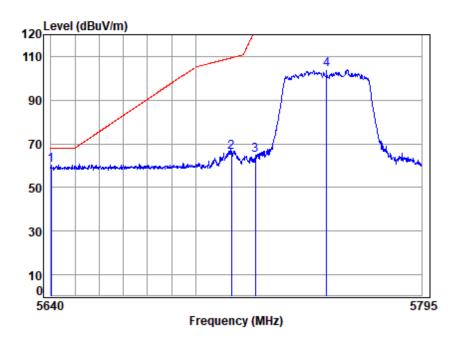
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Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5755 Band edge : 5G WIFI 11N40 Note

	. 50	AATIT	111140							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
						-	-			
	5640.153	8.20	34.32	42.37	60.08	60.23	68.20	-7.97	peak	
2	5715.000	8.22	34.38	42.37	66.12	66.35	109.40	-43.05	peak	
}	5725.000	8.22	34.38	42.37	64.45	64.68	122.20	-57.52	peak	
L	5755.000	8.22	34.41	42.38	103,60	103.85			peak	



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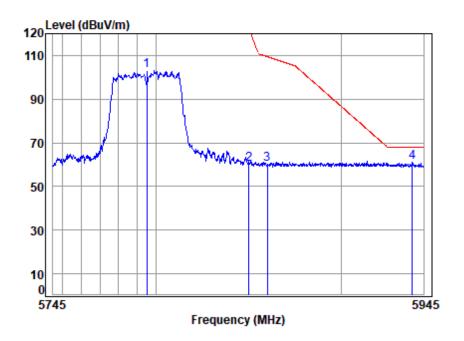
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Report No.: SZCR210402053904

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Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No

Mode : 5795 Band edge : 5G WIFI 11N40 Note

	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
									_
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
5795.000	8.23	34.44	42.38	102.63	102.92			peak	
5850.000	8.24	34.48	42.39	60.10	60.43	122.20	-61.77	peak	
5860.000	8.24	34.49	42.39	59.71	60.05	109.40	-49.35	peak	
5938.697	8.25	34.55	42.39	60.69	61.10	68.20	-7.10	peak	



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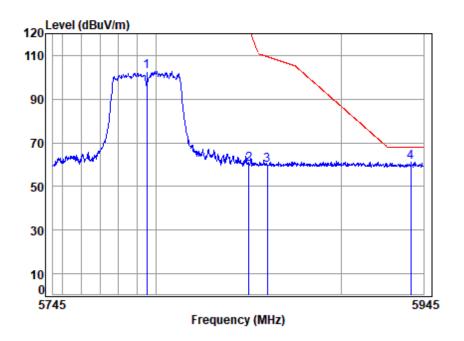
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Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5795 Band edge Note : 5G WIFI 11N40

Le	. 50	MILI	111140							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	5795.000	8.23	34.44	42.38	102.37	102.66			peak	
2	5850.000	8.24	34.48	42.39	59.90	60.23	122.20	-61.97	peak	
}	5860.000	8.24	34.49	42.39	59.37	59.71	109.40	-49.69	peak	
ļ	5938.087	8.25	34.55	42.39	60.92	61.33	68.20	-6.87	peak	



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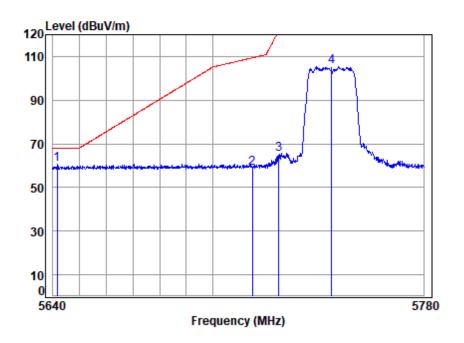
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

: 5745 Band edge Mode : 5G WIFI 11AC20 Note

_	. 50	MATIT	TIACZU							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	5641.521	8.20	34.32	42.37	60.44	60.59	68.20	-7.61	peak	
	5715.000	8.22	34.38	42.37	58.82	59.05	109.40	-50.35	peak	
	5725.000	8.22	34.38	42.37	64.89	65.12	122.20	-57.08	peak	
	5745.000	8.22	34.40	42.38	105.17	105.41			peak	



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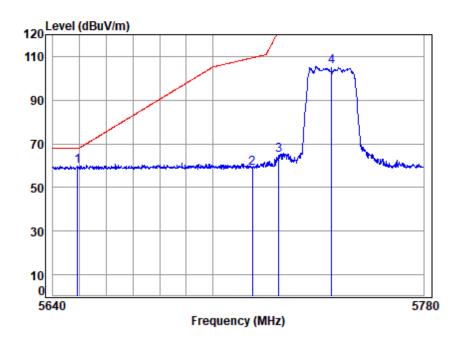
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5745 Band edge : 5G WTFT 11AC20 Note

		MATIT	TIACZU							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	5649.135	8.20	34.32	42.37	59.62	59.77	68.20	-8.43	peak	
2	5715.000	8.22	34.38	42.37	58.44	58.67	109.40	-50.73	peak	
}	5725.000	8.22	34.38	42.37	64.42	64.65	122.20	-57.55	peak	
ļ	5745.000	8.22	34.40	42.38	105.38	105.62			peak	



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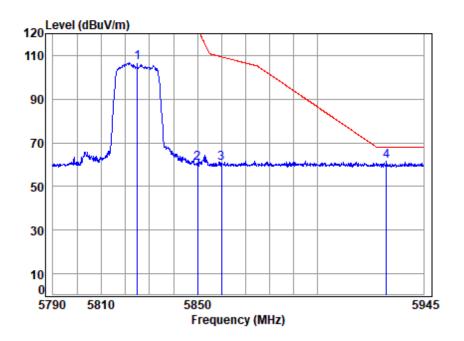
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20539AT

Mode : 5825 Band edge : 5G WIFI 11AC20 Note

	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
									_
MHz	ав	aB/m	ав	aBuv	aBuv/m	dBuV/m	ав		
5825.000	8.23	34.46	42.38	106.32	106.63			neak	
5850.000						122.20		•	
5860.000	8.24	34.49	42.39	60.15	60.49	109.40	-48.91	peak	
5929.315	8.25	34.55	42.39	60.98	61.39	68.20	-6.81	peak	



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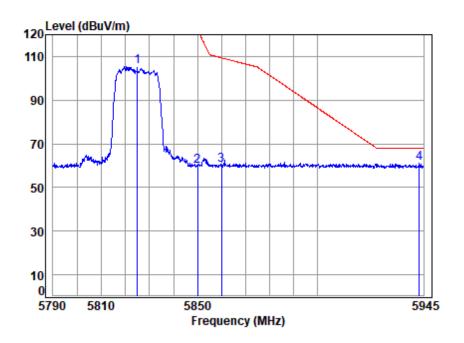
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5825 Band edge : 5G WIFI 11AC20 Note

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.23	34.46	42.38	105.11	105.42			peak
2	5850.000	8.24	34.48	42.39	59.60	59.93	122.20	-62.27	peak
3	5860.000	8.24	34.49	42.39	60.01	60.35	109.40	-49.05	peak
4	5943.116	8.25	34.56	42.39	60.55	60.97	68.20	-7.23	peak



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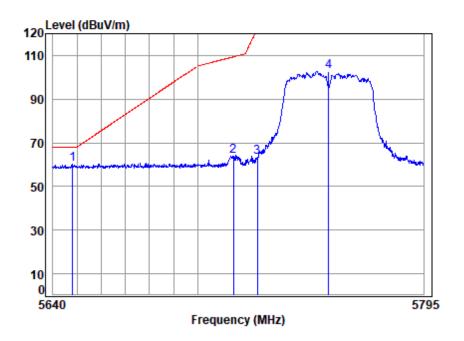
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No

Mode : 5755 Band edge : 5G WIFI 11AC40 Note

Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5648.110 5715.000						68.20 109.40		•
5725.000	8.22	34.38	42.37	63.33	63.56	122.20	-58.64	peak
5755.000	8.22	34.41	42.38	102.48	102.73			peak



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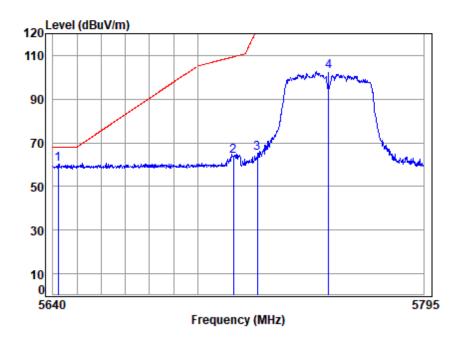
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

Mode : 5755 Band edge · 5G WTFT 11ΔC40 Note

ote	. 30	MTLT	TIAC40						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5642.141	8.20	34.32	42.37	59.96	60.11	68.20	-8.09	peak
2	5715.000	8.22	34.38	42.37	63.78	64.01	109.40	-45.39	peak
3	5725.000	8.22	34.38	42.37	65.13	65.36	122.20	-56.84	peak
4	5755.000	8.22	34.41	42.38	102.38	102.63			peak



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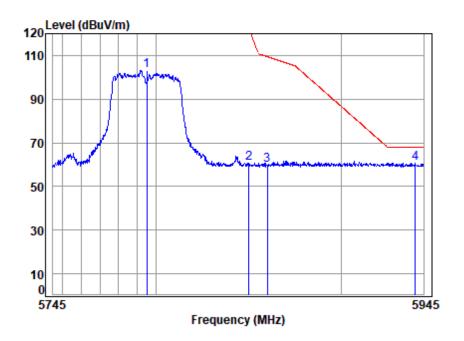
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No

Mode : 5795 Band edge : 5G WIFI 11AC40 Note

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5795.000			42.38					•
5850.000	8.24	34.48	42.39	60.29	60.62	122.20	-61.58	peak
5860.000	8.24	34.49	42.39	59.45	59.79	109.40	-49.61	peak
5940.323	8.25	34.55	42.39	60.43	60.84	68.20	-7.36	peak



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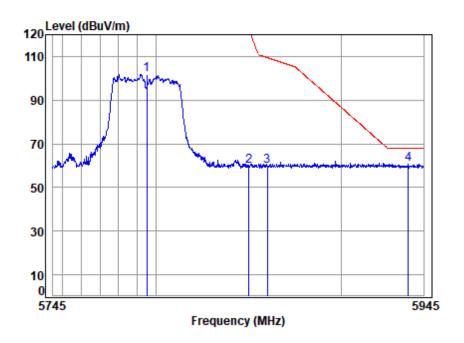
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

: 5795 Band edge Mode : 5G WIFI 11AC40 Note

	. 50	AATIT	TIACHO							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	5795.000	8.23	34.44	42.38	101.53	101.82			peak	
2	5850.000	8.24	34.48	42.39	59.50	59.83	122.20	-62.37	peak	
}	5860.000	8.24	34.49	42.39	59.59	59.93	109.40	-49.47	peak	
L	5936.665	8.25	34.55	42.39	60.27	60.68	68.20	-7.52	peak	



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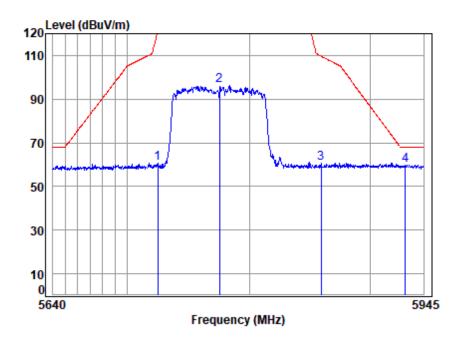
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No

Mode : 5775 Band edge : 5G WIFI 11AC80 Note

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5724.691	8.22	34.38	42.37	60.35	60.58	121.50	-60.92	peak
2	5775.000	8.22	34.42	42.38	95.81	96.07			peak
3	5859.209	8.24	34.49	42.39	60.20	60.54	109.62	-49.08	peak
4	5929.678	8.25	34.55	42.39	59.54	59.95	68.20	-8.25	peak



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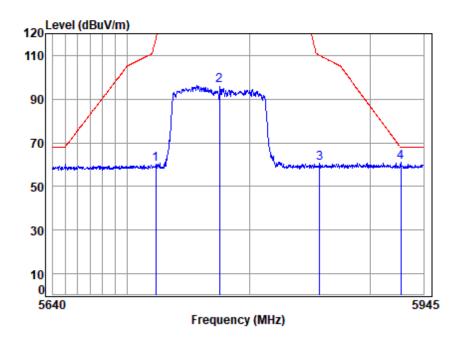
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 20539AT Job No

Mode : 5775 Band edge : 5G WIFI 11AC80 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5723.184	8.22	34.38	42.37	60.17	60.40	118.06	-57.66	peak
2	5775.000	8.22	34.42	42.38	95.86	96.12			peak
3	5857.975	8.24	34.49	42.39	60.36	60.70	109.97	-49.27	peak
4	5925.932	8.25	34.54	42.39	60.72	61.12	68.20	-7.08	peak
									•



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7.10 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart C 15.407 (g)
Test Method: ANSI C63.10 (2013) Section 6.8

7.10.1 E.U.T. Operation

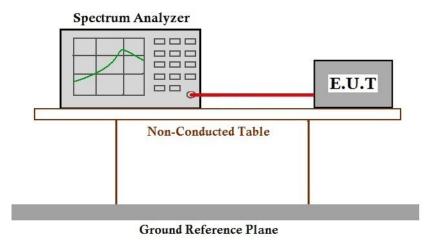
Operating Environment:

Temperature: 23.7 °C Humidity: 61.3 % RH Atmospheric Pressure: 1010 mbar

7.10.2 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(VHT80). 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). Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram





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7.10.4 Measurement Procedure and Data

The applicant declares that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual and meets Section 15.407(g) requirements.



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7.11 Radiated Emissions (Below 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 25.2 °C Atmospheric Pressure: 1010 mbar Humidity: 50.4 % RH

7.11.2 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). 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). Only the data of worst case is recorded in the report.



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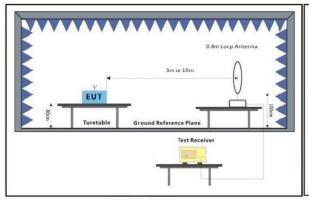
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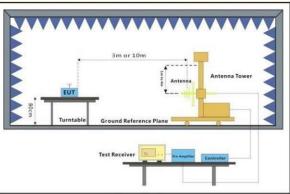


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7.11.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



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7.11.4 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.

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

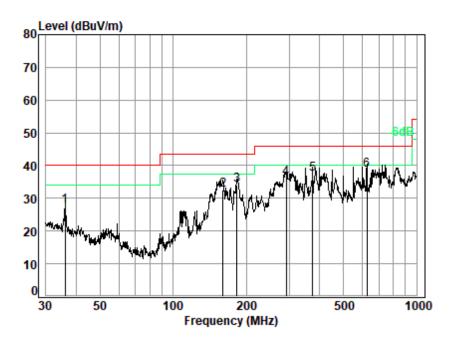




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Test Mode: 10; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

: 20539AT Job No.

Test Mode: 10

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
_									
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	36.00	35.16	19.70	0.66	27.72	27.80	40.00	-12.20	QP
2	160.35	43.28	15.41	1.17	27.29	32.57	43.50	-10.93	QP
3	182.56	44.55	15.43	1.19	27.20	33.97	43.50	-9.53	QP
4	291.04	42.66	18.38	1.94	26.89	36.09	46.00	-9.91	QP
5	374.62	40.27	22.20	2.23	27.27	37.43	46.00	-8.57	QP
6 a	625.08	37.28	26.60	2.75	28.07	38.56	46.00	-7.44	OP



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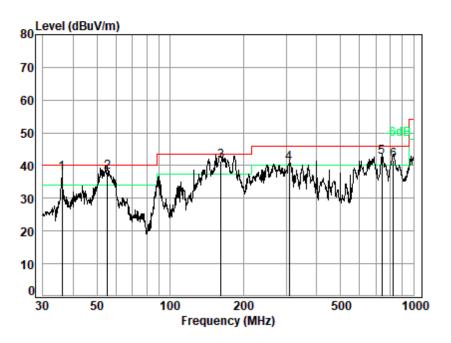
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Test Mode: 10; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

: 20539AT Job No.

Test Mode: 10

	louc. Io								
		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
_									
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	36.00	44.99	19.70	0.66	27.72	37.63	40.00	-2.37	QP
2 q	55.22	51.71	13.13	0.75	27.67	37.92	40.00	-2.08	QP
3	161.47	51.91	15.43	1.17	27.29	41.22	43.50	-2.28	QP
4	308.91	46.21	19.37	2.03	26.92	40.69	46.00	-5.31	QP
5	739.66	39.33	27.99	3.07	27.84	42.55	46.00	-3.45	QP
6	827.49	37.90	27.89	3.36	27.57	41.58	46.00	-4.42	OP



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Test Setup Photo 8

Refer to Setup Photos

EUT Constructional Details (EUT Photos) 9

Refer to EUT external and internal photos



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Appendix for 15.407

1. Duty Cycle

1.1 Test Result

Test Mode	Channel Frequency (MHz)	ТХ Туре	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
	5180	SISO	1	2.033	2.245	90.56	0.43
	5200	SISO	1	2.033	2.217	91.70	0.38
802.11a	5240	SISO	1	2.033	2.226	91.33	0.39
002.11a	5745	SISO	1	2.035	2.254	90.28	0.44
	5785	SISO	1	2.064	2.268	91.01	0.41
	5825	SISO	1	2.064	2.294	89.97	0.46
	5180	MIMO	1	1.893	2.111	89.67	0.47
	5200	MIMO	1	1.919	2.192	87.55	0.58
902 11 ₅ /UT20)	5240	MIMO	1	1.920	2.142	89.64	0.47
802.11n(HT20)	5745	MIMO	1	1.921	2.143	89.64	0.47
	5785	MIMO	1	1.919	2.123	90.39	0.44
	5825	MIMO	1	1.918	2.149	89.25	0.49
	5190	MIMO	1	0.917	1.141	80.37	0.95
902 11 ₅ /UT40)	5230	MIMO	1	0.916	1.141	80.28	0.95
802.11n(HT40)	5755	MIMO	1	0.917	1.132	81.01	0.91
	5795	MIMO	1	0.916	1.132	80.92	0.92
	5180	MIMO	1	1.932	2.189	88.26	0.54
	5200	MIMO	1	1.932	2.557	75.56	1.22
000 11 co(\/ IT00\	5240	MIMO	1	1.932	2.160	89.44	0.48
802.11ac(VHT20)	5745	MIMO	1	1.932	2.170	89.03	0.50
	5785	MIMO	1	1.931	2.186	88.33	0.54
	5825	MIMO	1	1.932	2.169	89.07	0.50
	5190	MIMO	1	0.951	1.207	78.79	1.04
902 11cc(\/\UT40\	5230	MIMO	1	0.951	1.231	77.25	1.12
802.11ac(VHT40)	5755	MIMO	1	0.952	1.190	80.00	0.97
	5795	MIMO	1	0.951	1.189	79.98	0.97
000 44 co/\/LIT00\	5210	MIMO	1	0.440	0.683	64.42	1.91
802.11ac(VHT80)	5775	MIMO	1	0.439	0.683	64.28	1.92



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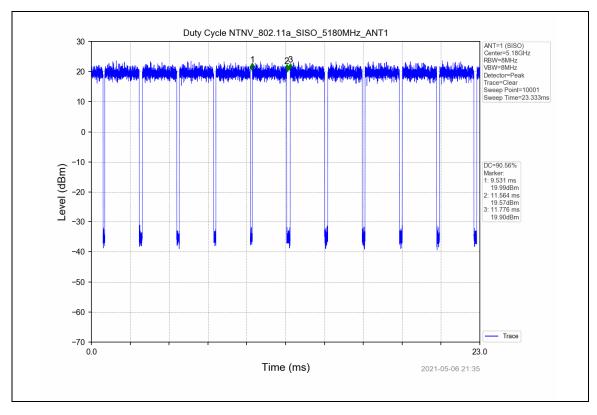
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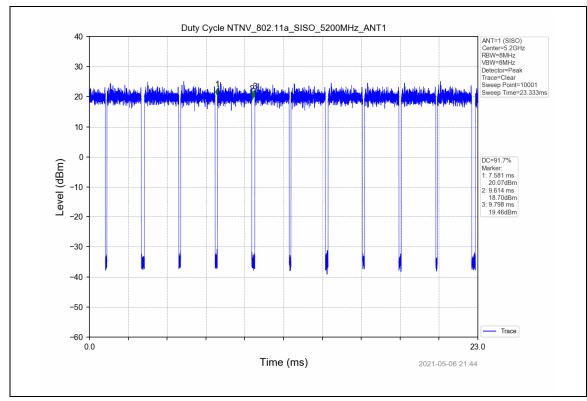


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1.2 Test Graph







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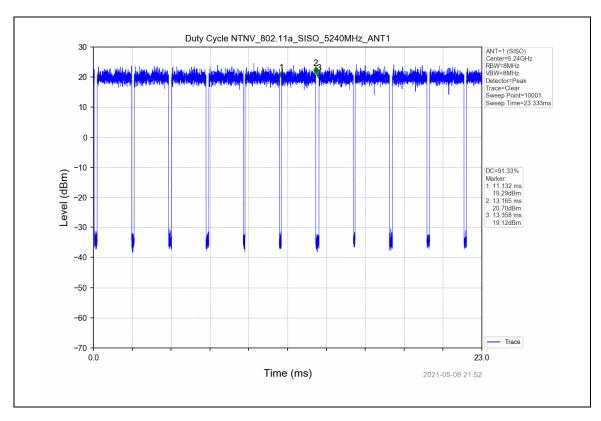
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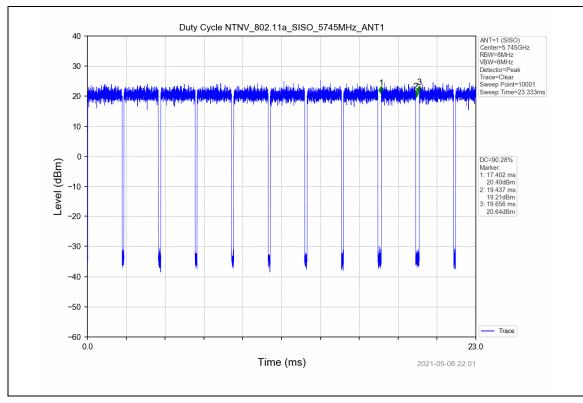
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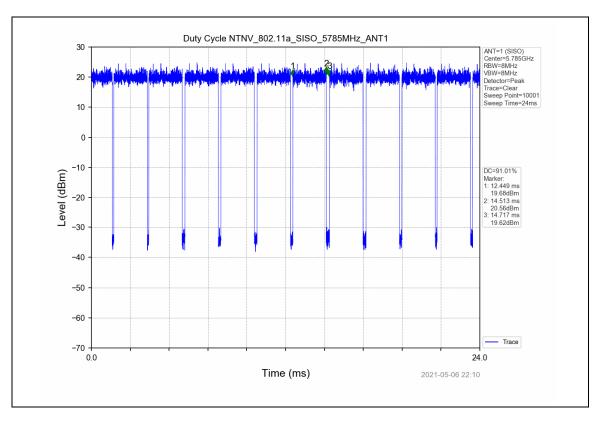
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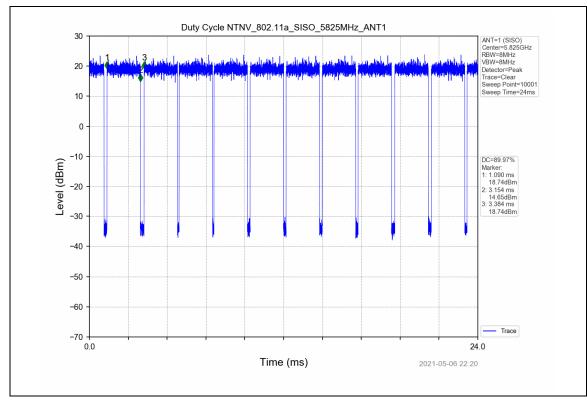
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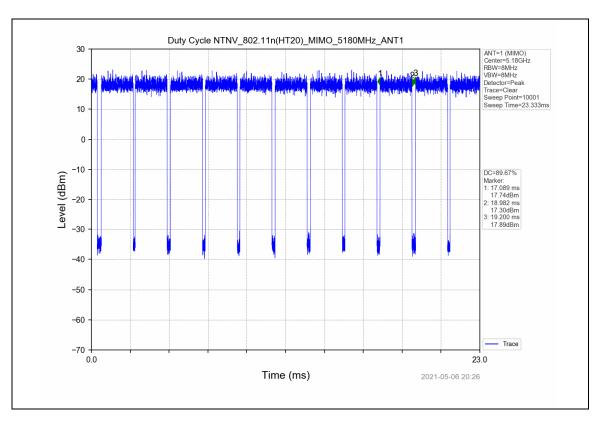
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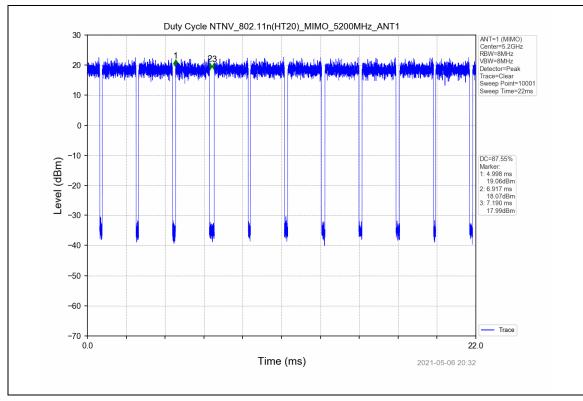
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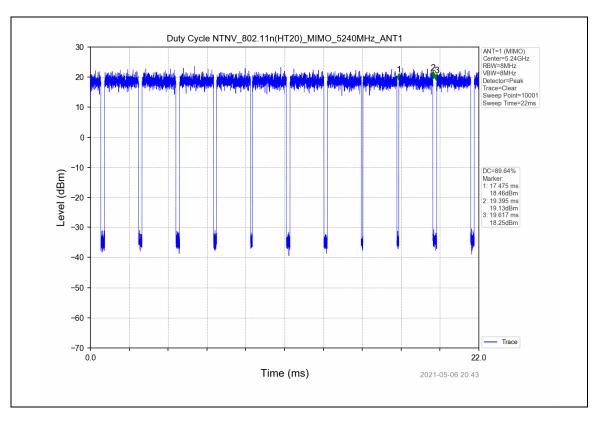
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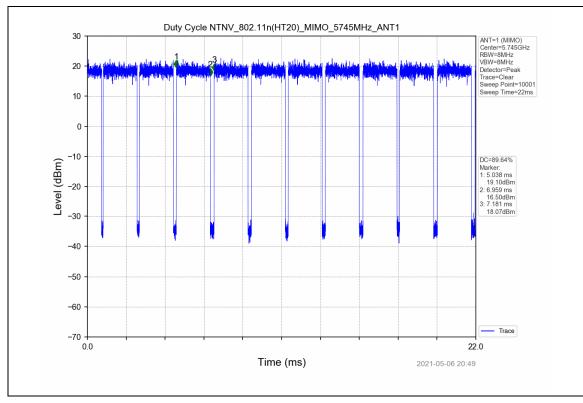
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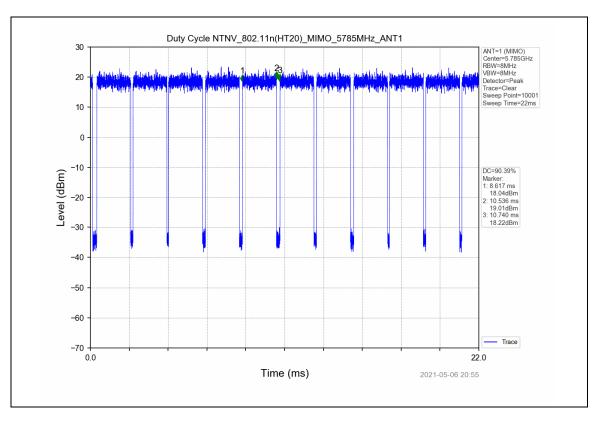
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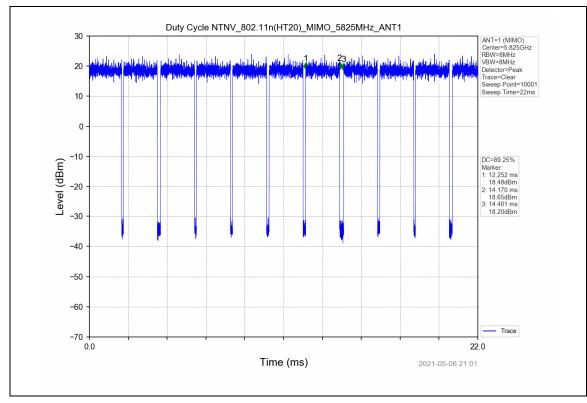
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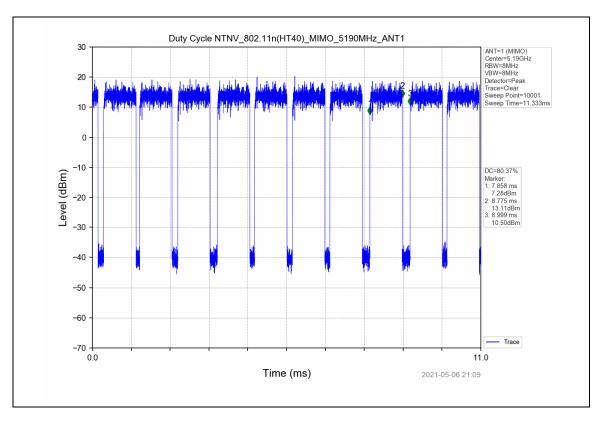
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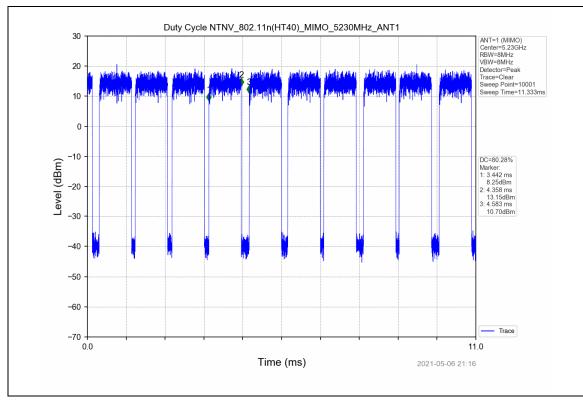
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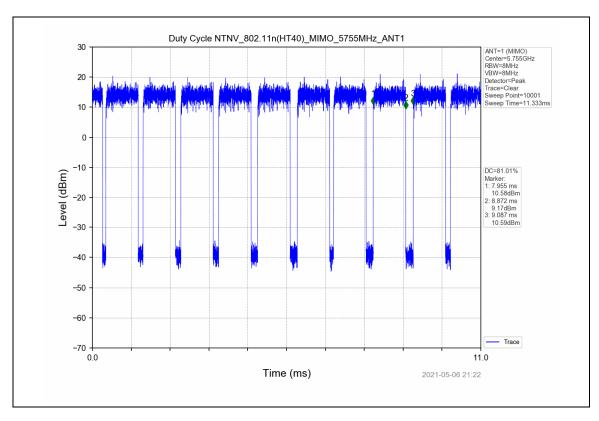
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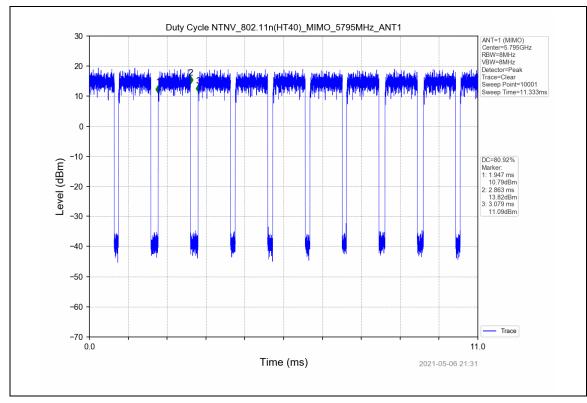
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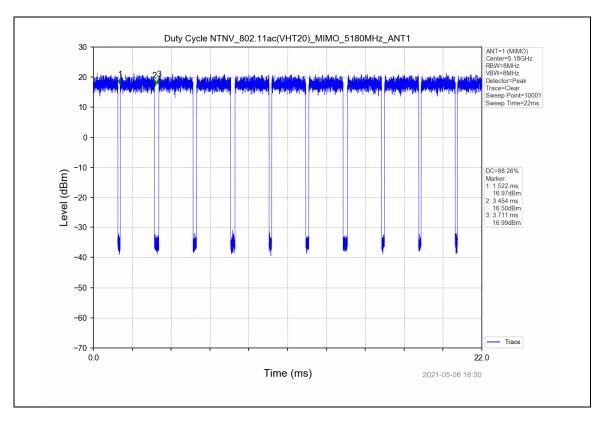
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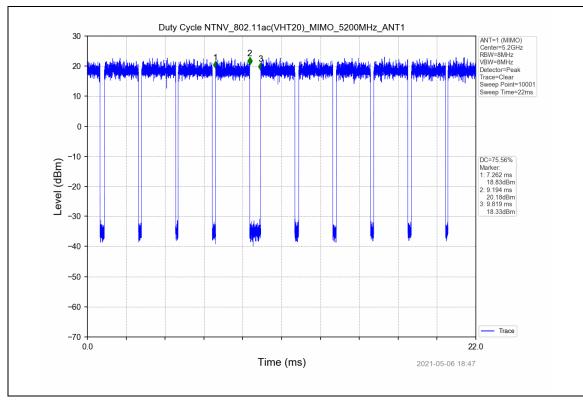
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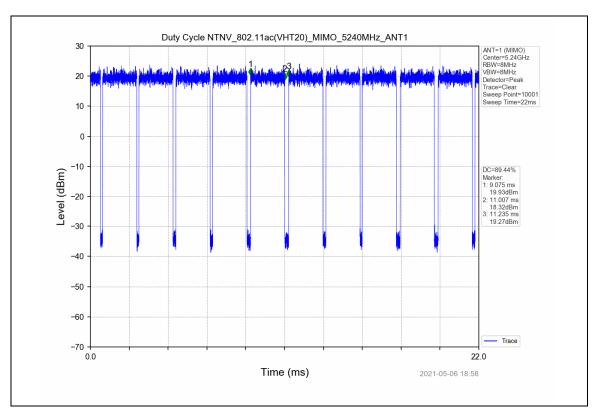
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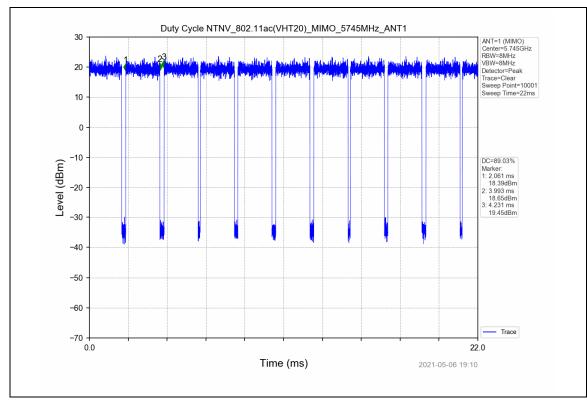
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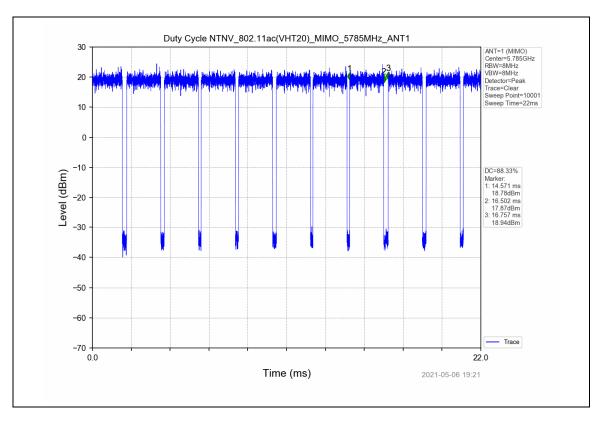
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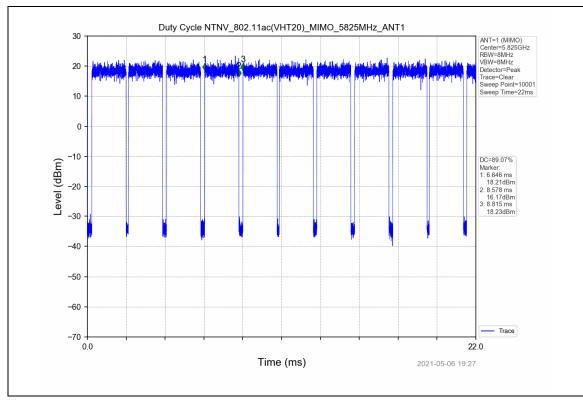
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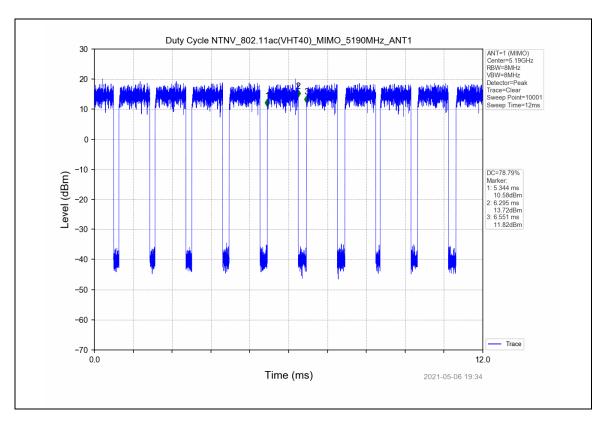
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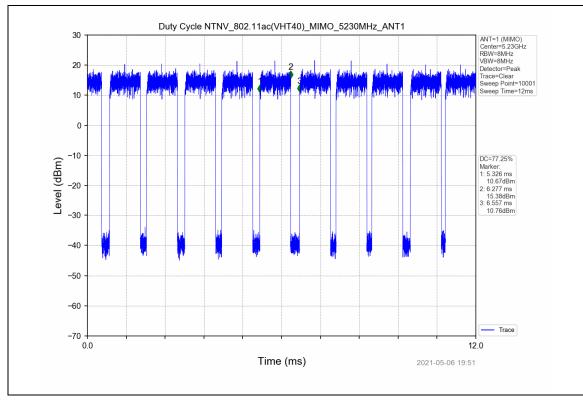
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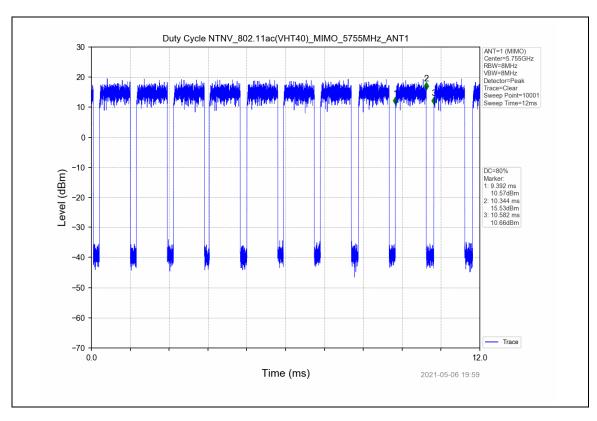
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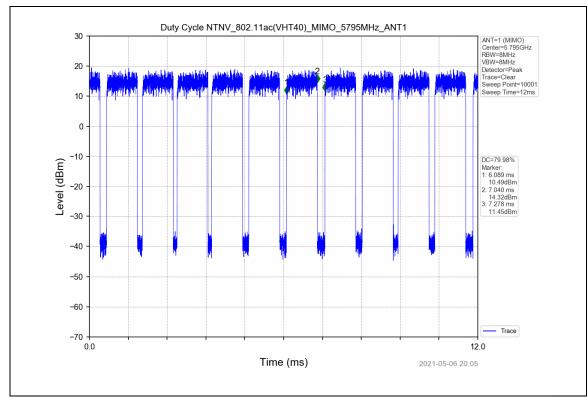
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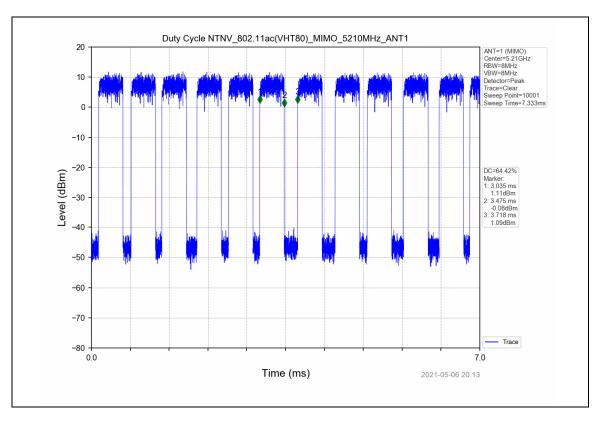
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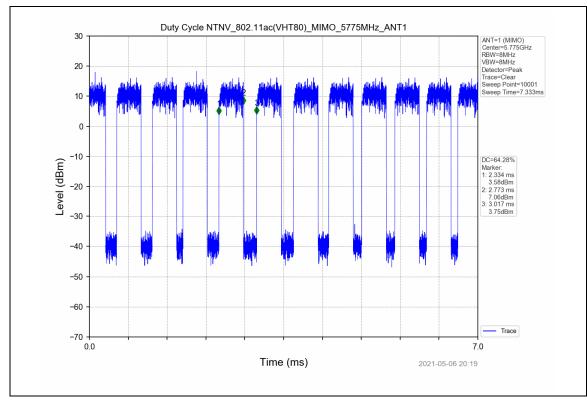
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2. Bandwidth

2.1 Test Result

Took Mode	Frequency	TV Turns	ANT No.	Emissior	\/oveliet	
Test Mode	(MHz)			Test Result (MHz)	Limits (MHz)	Verdict
	5180	SISO	1	32.674	Only for Report Use	PASS
802.11a	5200	SISO	1	28.617	Only for Report Use	PASS
	5240	SISO	1	26.724	Only for Report Use	PASS
	5180	MIMO	1	25.085	Only for Report Use	PASS
802.11n(HT20)	5200	MIMO	1	27.097	Only for Report Use	PASS
	5240	MIMO	1	21.533	Only for Report Use	PASS
902 11 ₅ /UT40)	5190	MIMO	1	52.053	Only for Report Use	PASS
802.11n(HT40)	5230	MIMO	1	45.308	Only for Report Use	PASS
	5180	MIMO	1	27.622	Only for Report Use	PASS
802.11ac(VHT20)	5200	MIMO	1	28.395	Only for Report Use	PASS
	5240	MIMO	1	26.973	Only for Report Use	PASS
000 44 () (5190	MIMO	1	49.258	Only for Report Use	PASS
802.11ac(VHT40)	5230	MIMO	1	41.332	Only for Report Use	PASS
802.11ac(VHT80)	5210	MIMO	1	81.016	Only for Report Use	PASS

Took Mode	Frequency	TV T	ANT No.	Emission E	Vardiat		
Test Mode	(MHz)	TX Type	ANT NO.	Test Result (MHz)	Limits (MHz)	Verdict	
	5745	SISO	1	16.392	≥0.5	PASS	
802.11a	5785	SISO	1	16.131	≥0.5	PASS	
	5825	SISO	1	16.332	≥0.5	PASS	
	5745	MIMO	1	17.015	≥0.5	PASS	
802.11n(HT20)	5785	MIMO	1	17.602	≥0.5	PASS	
	5825	MIMO	1	17.600	≥0.5	PASS	
902 11 ₅ /UT40)	5755	MIMO	1	35.215	≥0.5	PASS	
802.11n(HT40)	5795	MIMO	1	35.037	≥0.5	PASS	
	5745	MIMO	1	17.285	≥0.5	PASS	
802.11ac(VHT20)	5785	MIMO	1	17.289	≥0.5	PASS	
	5825	MIMO	1	17.605	≥0.5	PASS	
802.11ac(VHT40)	5755	MIMO	1	35.103	≥0.5	PASS	
	5795	MIMO	1	35.317	≥0.5	PASS	
802.11ac(VHT80)	5775	MIMO	1	74.033	≥0.5	PASS	



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Took Mode	Frequency	TV Tura	ANT No	99% Occupie	ed Bandwidth		
Test Mode	(MHz)	TX Type	ANT No.	Test Result (MHz)			
	5180	SISO	1	16.936	Only for Report Use		
	5200	SISO	1	16.789	Only for Report Use		
000 44-	5240	SISO	1	16.616	Only for Report Use		
802.11a	5745	SISO	1	16.702	Only for Report Use		
	5785	SISO	1	16.574	Only for Report Use		
	5825	SISO	1	16.535	Only for Report Use		
	5180	MIMO	1	17.723	Only for Report Use		
	5200	MIMO	1	17.730	Only for Report Use		
000 44~/LIT00\	5240	MIMO	1	17.679	Only for Report Use		
802.11n(HT20)	5745	MIMO	1	17.697	Only for Report Use		
	5785	MIMO	1	17.663	Only for Report Use		
	5825	MIMO	1	17.747	Only for Report Use		
	5190	MIMO	1	36.496	Only for Report Use		
000 44 m/LIT40)	5230	MIMO	1	36.548	Only for Report Use		
802.11n(HT40)	5755	MIMO	1	36.597	Only for Report Use		
	5795	MIMO	1	36.400	Only for Report Use		
	5180	MIMO	1	17.760	Only for Report Use		
	5200	MIMO	1	17.900	Only for Report Use		
000 44 co(\/ IT00\	5240	MIMO	1	17.834	Only for Report Use		
802.11ac(VHT20)	5745	MIMO	1	17.844	Only for Report Use		
	5785	MIMO	1	17.732	Only for Report Use		
	5825	MIMO	1	17.734	Only for Report Use		
	5190	MIMO	1	36.679	Only for Report Use		
900 11ac/\/\\\\\\\\	5230	MIMO	1	36.456	Only for Report Use		
802.11ac(VHT40)	5755	MIMO	1	36.711	Only for Report Use		
	5795	MIMO	1	36.437	Only for Report Use		
902 11cc(\/\UT00\	5210	MIMO	1	74.497	Only for Report Use		
802.11ac(VHT80)	5775	MIMO	1	74.914	Only for Report Use		



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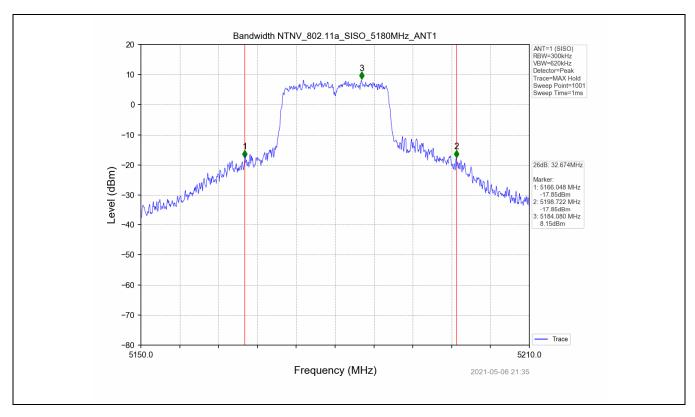
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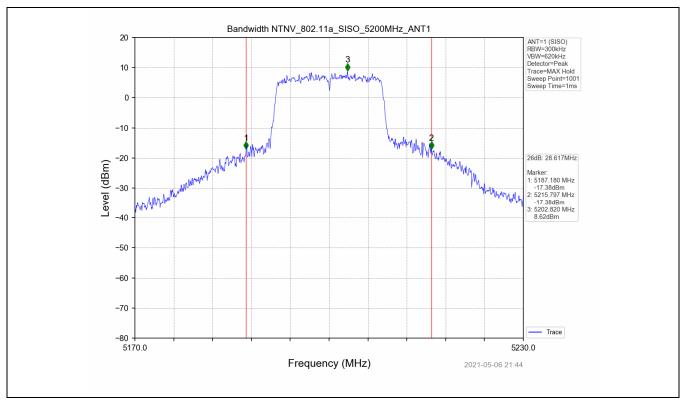


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2.2 Test Graph - Emission Bandwidth







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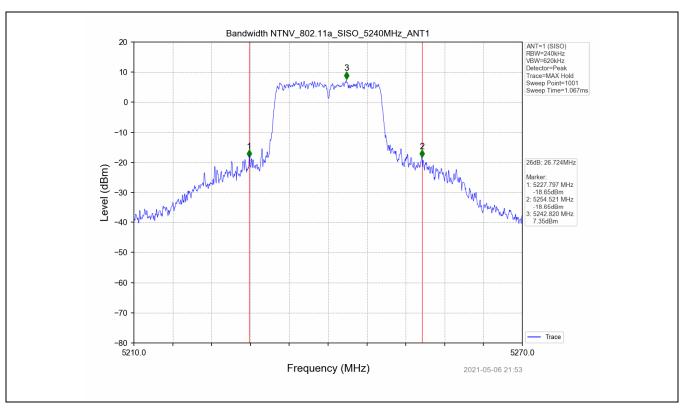
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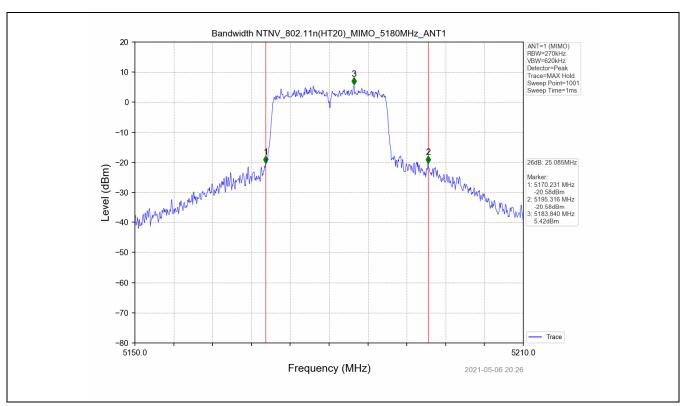
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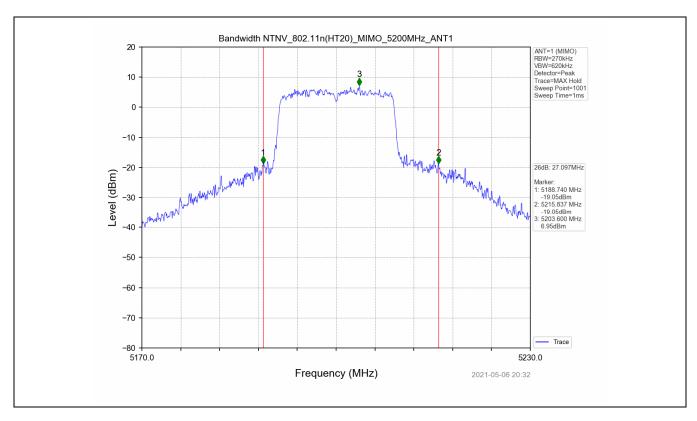
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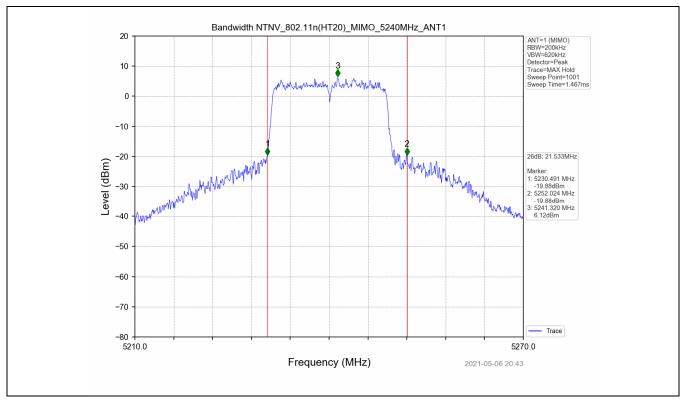
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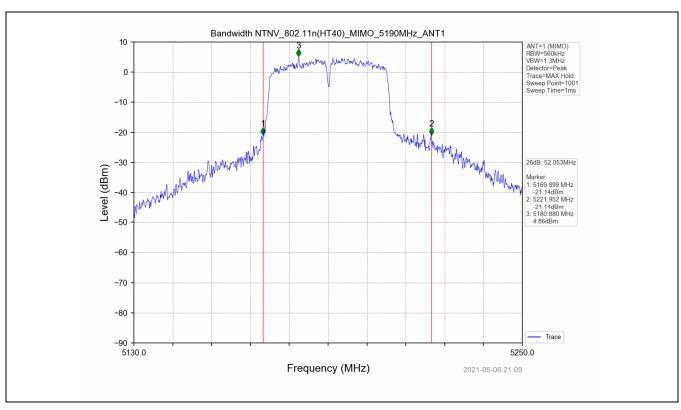
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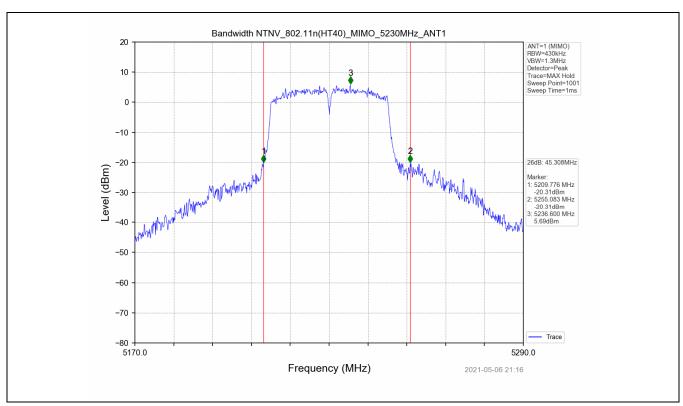
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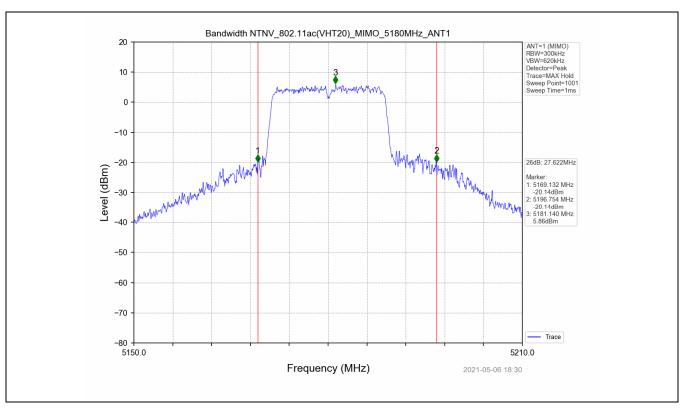
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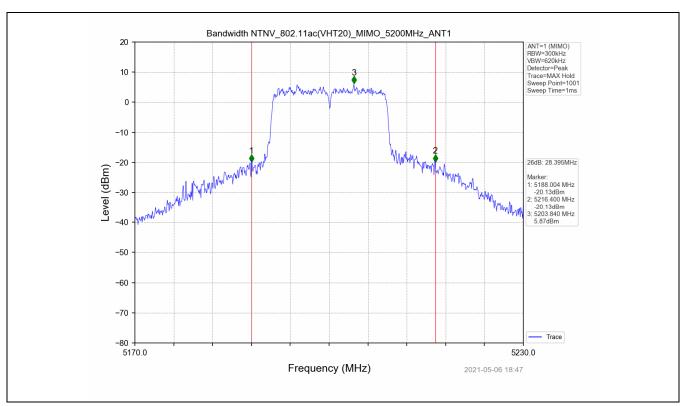
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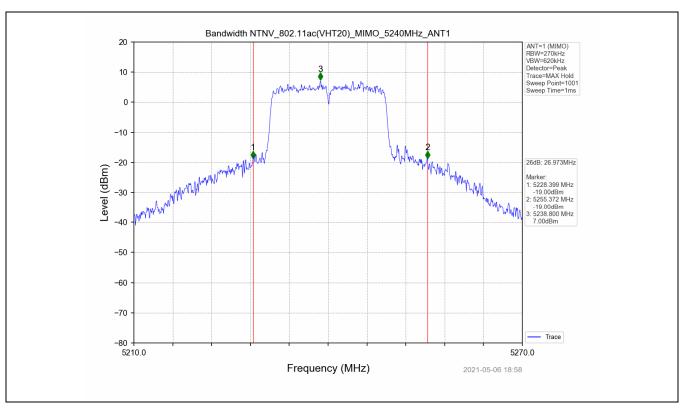
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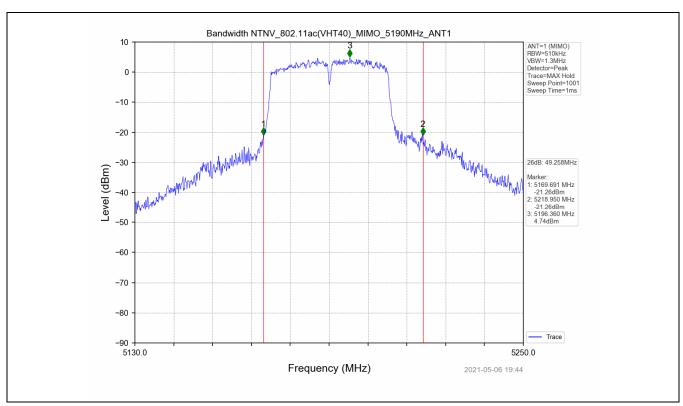
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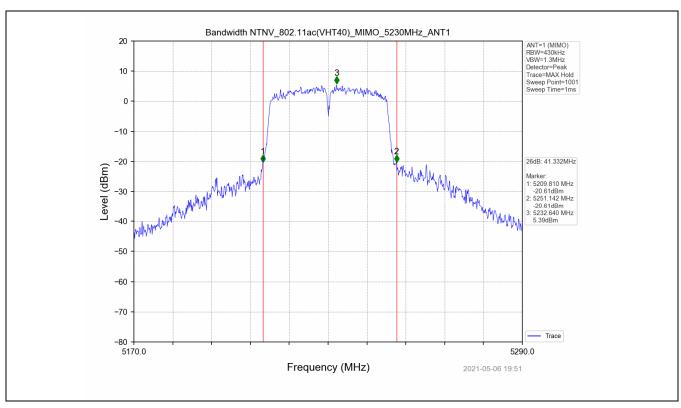
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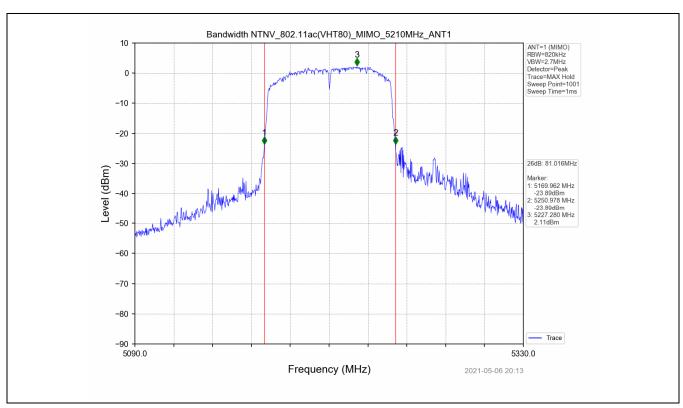
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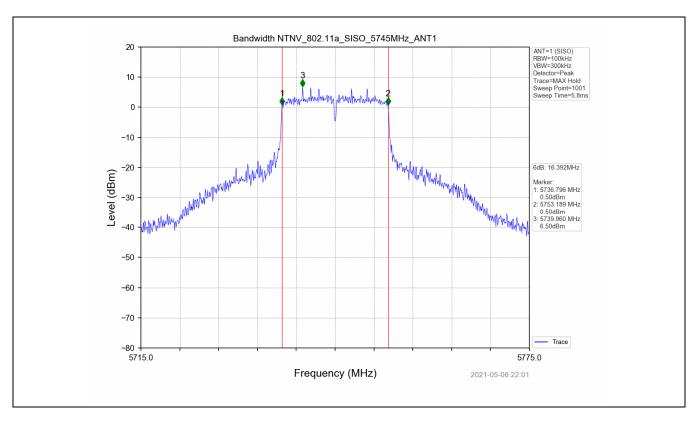
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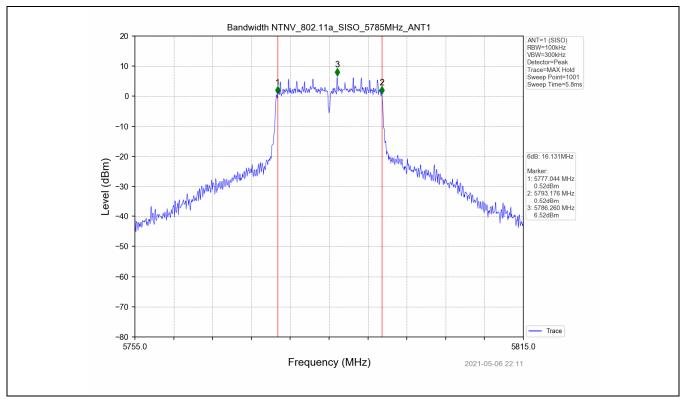
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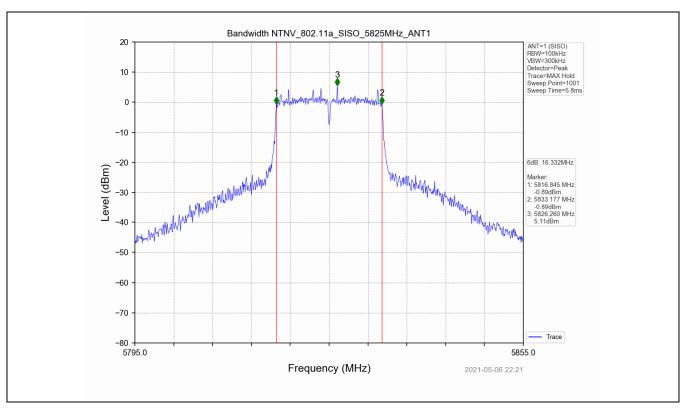
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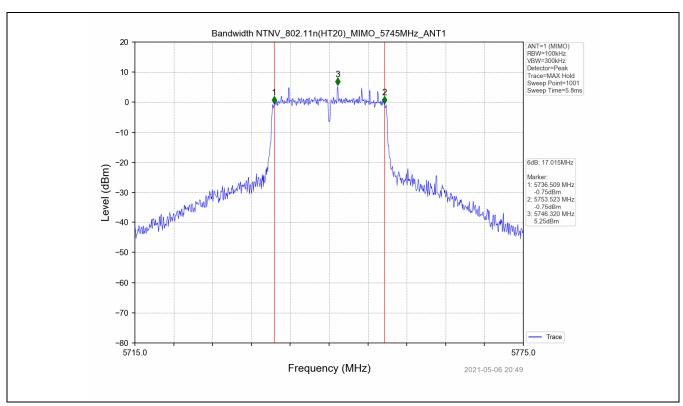
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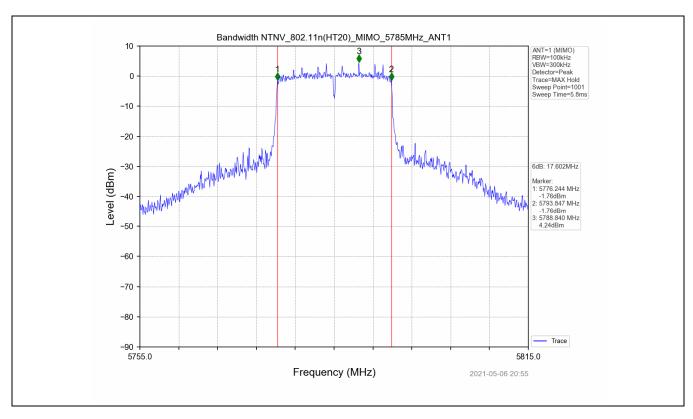
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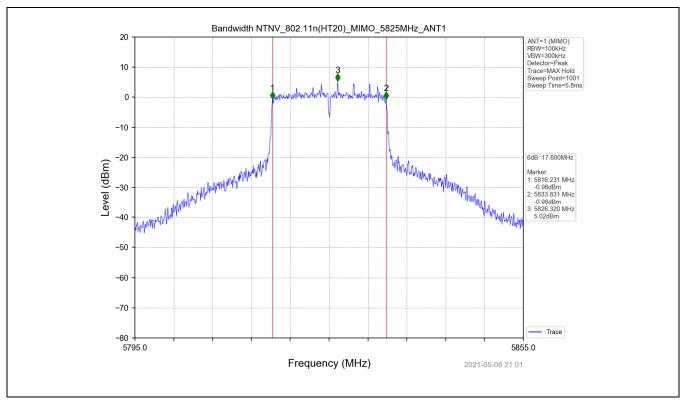
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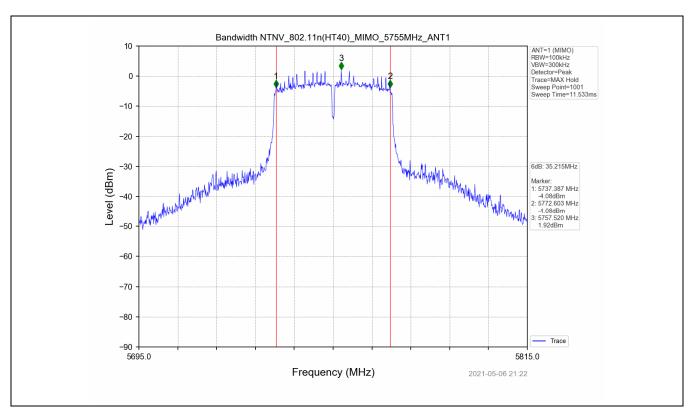
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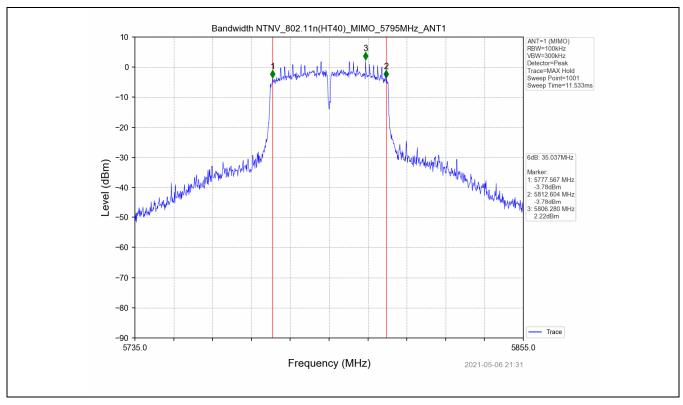
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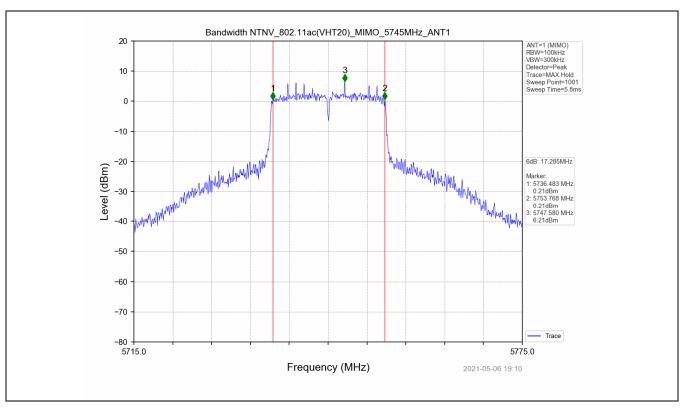
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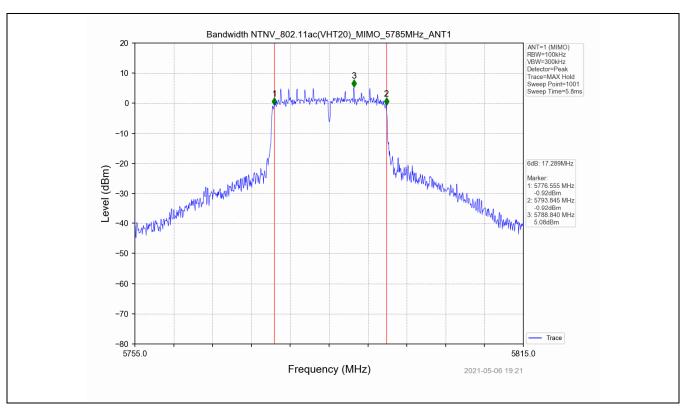
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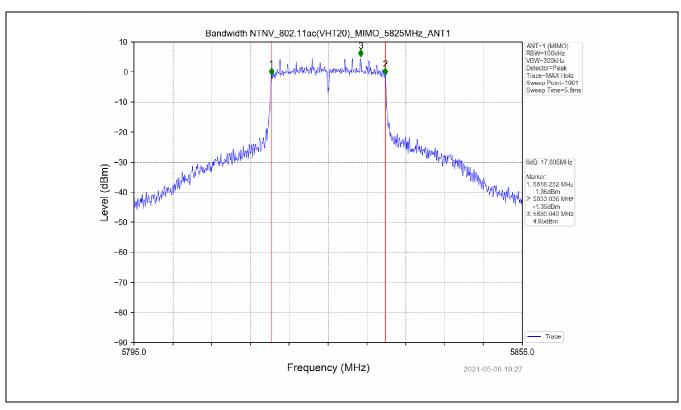
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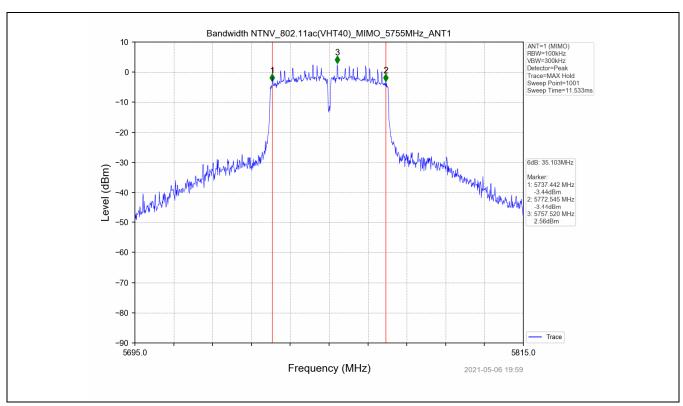
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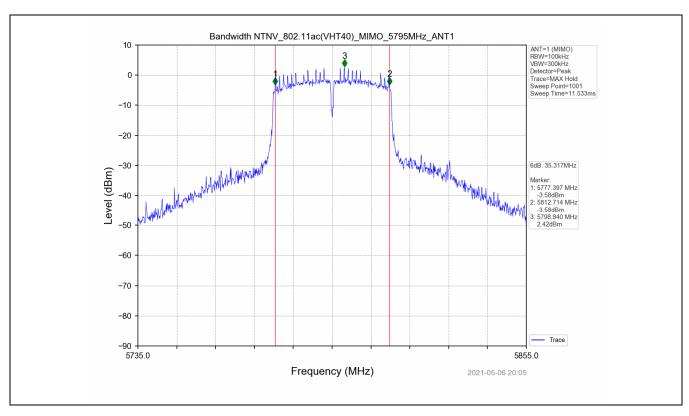
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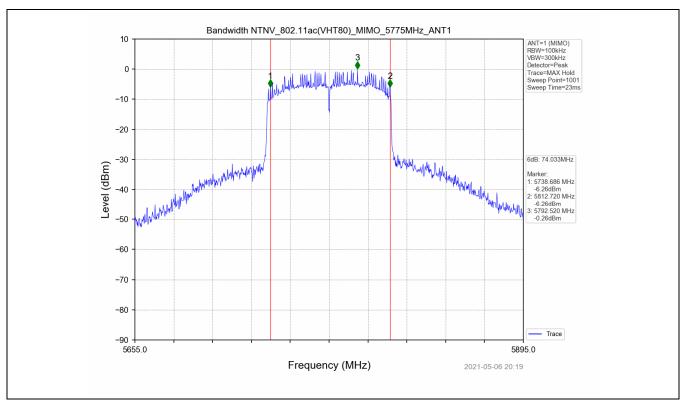
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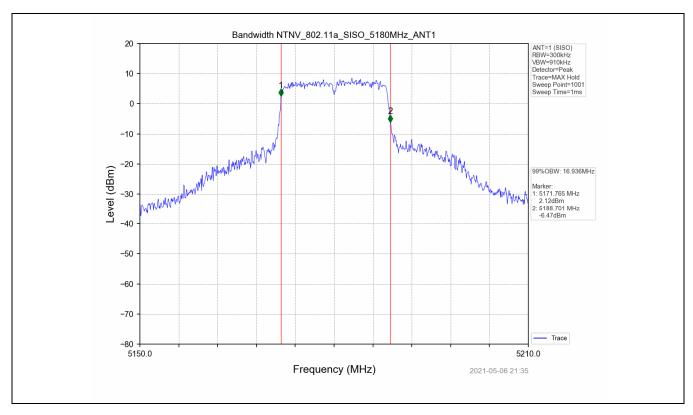
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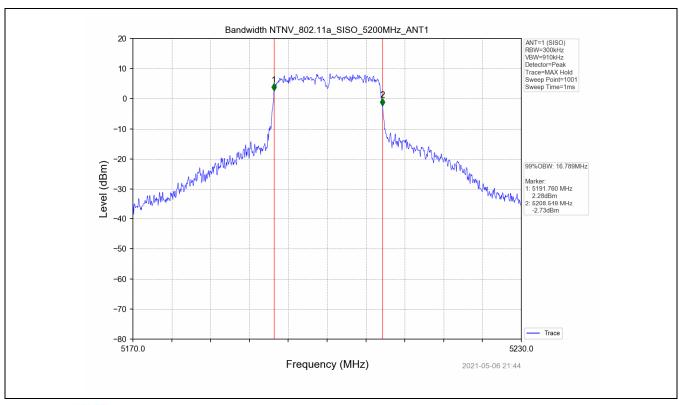


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2.3 Test Graph - 99% Occupied Bandwidth







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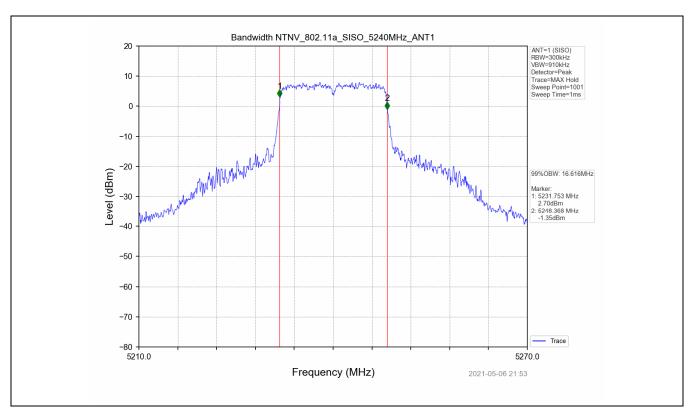
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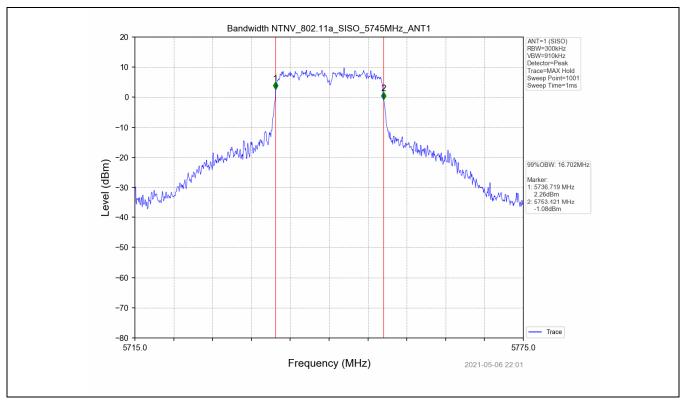
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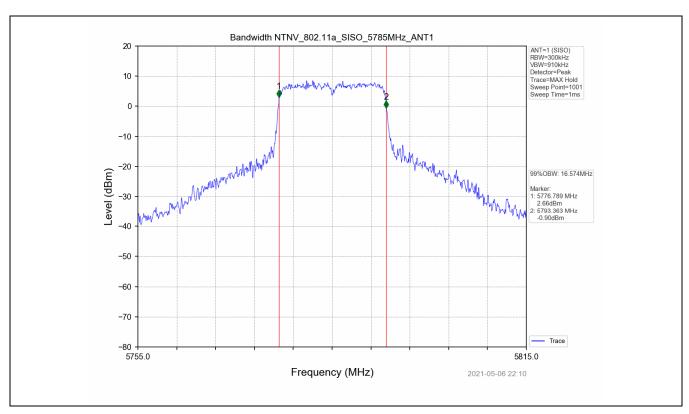
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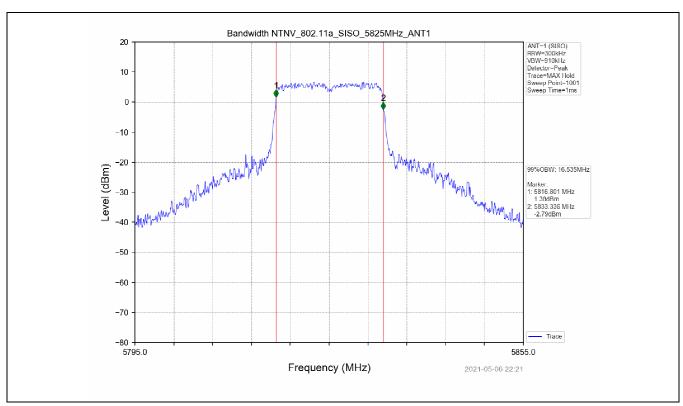
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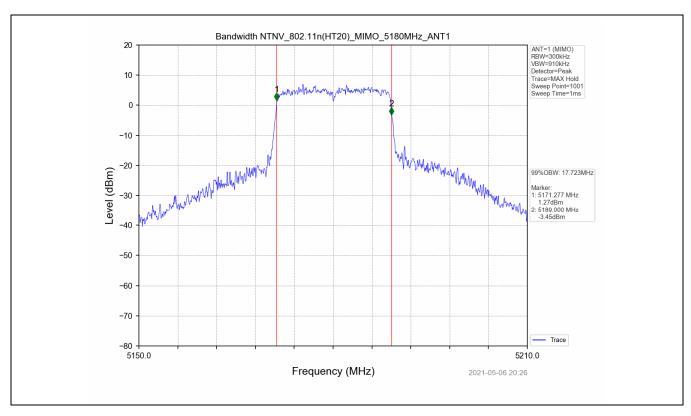
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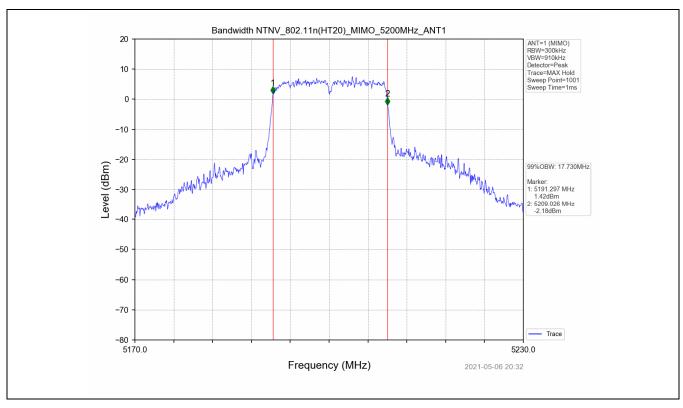
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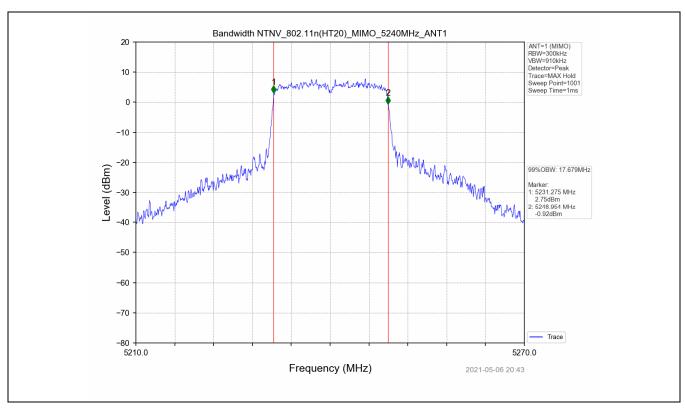
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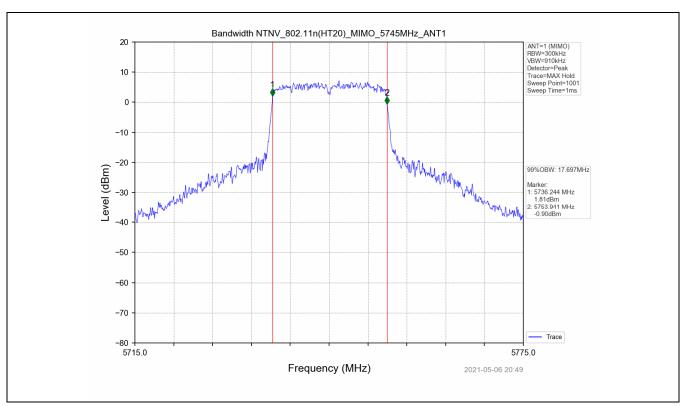
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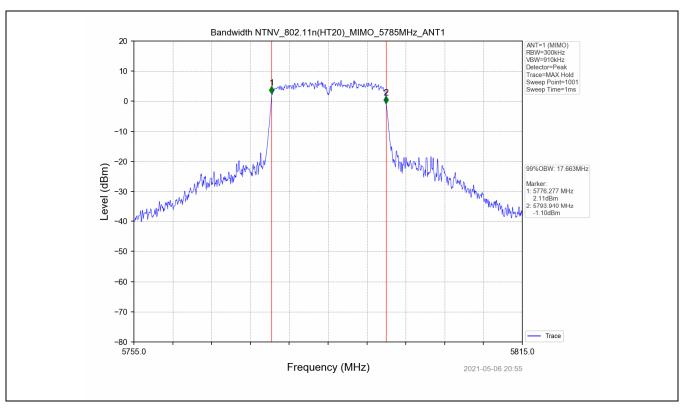
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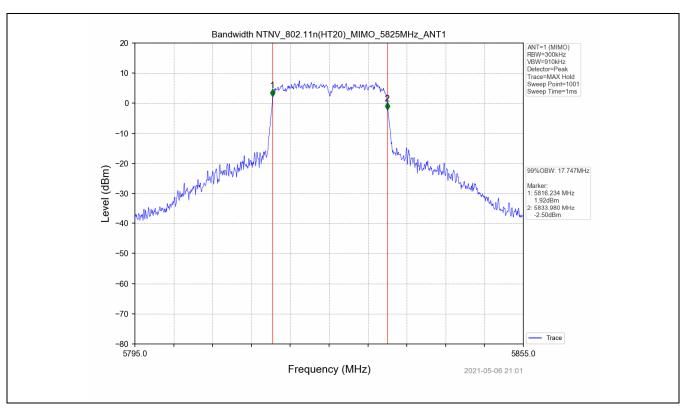
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