



## Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR221100047605

Page: 1 of 346

# TEST REPORT

**Application No.:** FYCR2211000476AT  
**Applicant:** Vanstone Electronic (Beijing) Co., Ltd.  
**Address of Applicant:** 3F No.2 Building, Aisino Corporation Park 18A, Xingshikou Road, Haidian District, Beijing, China 100195  
**Manufacturer:** Vanstone Electronic (Beijing) Co., Ltd.  
**Address of Manufacturer:** 3F No.2 Building, Aisino Corporation Park 18A, Xingshikou Road, Haidian District, Beijing, China 100195

**Equipment Under Test (EUT):**

**EUT Name:** Android POS Terminal  
**Model No.:** A75 Pro  
**FCC ID:** OWLA75-PRO-A  
**Standard(s) :** 47 CFR Part 15, Subpart E 15.407  
**Date of Receipt:** 2022-11-21  
**Date of Test:** 2022-12-05 to 2023-03-10  
**Date of Issue:** 2023-05-25

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Winkey Wang  
EMC Technical Manager



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**Revision Record**

<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
01		2023-05-25		Original

**Authorized for issue by:**

	 _____ <b>Tree Zhan/Project Engineer</b>		
	 _____ <b>Winkey Wang/Reviewer</b>		

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## 2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Duty Cycle		KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass

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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	Rechargeable Li-ion battery 1: (Charged by adapter) Battery Model: BT-901 Manufacturer: Zhuhai Greaton Electronic Technology Co., Ltd. Rated Capacity: 3.6V 5200mAh
	Rechargeable Li-ion battery 2: (Charged by adapter) Battery Model: BT-901 Manufacturer: Shenzhen Rishengzhi Electronics Technology Co., Ltd. Rated Capacity: 3.6V 5200mAh
	Adapter Model: SW-1772 Input: AC 100-240V 50/60Hz Output: DC 5V 2A
Cable(s):	USB Cable: 80cm unshielded
Operation Frequency (20MHz):	U-NII-1: 5180-5240MHz; U-NII-2A: 5260-5320MHz; U-NII-2C: 5500-5700MHz; U-NII-3: 5745-5825MHz
Operation Frequency (40MHz):	U-NII-1: 5190-5230MHz; U-NII-2A: 5270-5310MHz; U-NII-2C: 5510-5670MHz; U-NII-3: 5755-5795MHz
Operation Frequency (80MHz):	U-NII-1: 5210MHz; U-NII-2A: 5290MHz; U-NII-2C: 5530-5610MHz; U-NII-3: 5775MHz
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n(HT20)/ac(HT20): 20MHz; 802.11n(HT40)/ac(HT40): 40MHz; 802.11ac(HT80): 80MHz
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	Integral Antenna
Antenna Gain:	5.12dBi

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

### 4.2 Description of Support Units

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

### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
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Conducted Emissions at AC Power Line (150kHz-30MHz)	± 2.1 dB (9kHz to 30MHz)
Duty Cycle	± 0.3%
99% Bandwidth	± 0.3%
26dB Emission bandwidth	± 0.3%
Minimum 6 dB bandwidth (5.725-5.85 GHz band )	± 0.3%
Maximum Conducted output power	± 0.8dB
Peak Power spectrum density	± 0.4dB
Radiated Emissions (Above 1GHz)	± 4.4dB (Above 1GHz)
Radiated Emissions which fall in the restricted bands	± 4.4dB (Above 1GHz)
Frequency Stability	± 5.4 x 10-8
Non-occupancy period	± 0.8dB
Channel Move Time	± 0.8dB
Channel Closing Transmission Time	± 0.8dB
Radiated Emissions (Below 1GHz)	± 3.1dB (Below 1GHz)

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



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### 4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 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. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

- **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

- **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

### 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None

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# Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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## 5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	CRT	N/A	SEM001-14	2021/7/13	2024/7/12
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-01	2022/7/12	2023/7/11
Two-Line V-Network	Rohde & Schwarz	ENV216	SEM007-16	2022/7/12	2023/7/11
Two-Line V-Network	Rohde & Schwarz	ESH3-Z5	SEM007-22	2022/1/10 2023/1/9	2023/1/9 2024/1/8
Coaxial Cable	CCS	N/A	SEM033-02	2022/5/16	2023/5/15
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

RF Conducted					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/3/22	2023/3/21
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM037-01	2022/5/16	2023/5/15
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11

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Coaxial Cable	CCS	N/A	SEM035-01	2022/5/16	2023/5/15
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

**Radiated Spurious Emissions Above 1GHz**

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2022/3/21	2023/3/20
Coaxial Cable	CCS	N/A	SEM035-03	2022/5/16	2023/5/15
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/3/21	2023/3/20
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/3/21	2023/3/20
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

**General used equipment**

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022/7/12	2023/7/11
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022/7/12	2023/7/11
Barometer	DUMAI	DYM3	SEM002-24	2022/7/12	2023/7/11

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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

#### 6.1.2 Conclusion

Conclusion

Standard Requirement:

Measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 5.08dBi.

Antenna location: Refer to internal photos.

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## 6.2 Transmission in the Absence of Data

### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

### 6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details:

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



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## 7 Radio Spectrum Matter Test Results

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

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

Limit:

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

\*Decreases with the logarithm of the frequency.

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C      Humidity: 52.4 % RH      Atmospheric Pressure: 1020 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	15	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	16	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously

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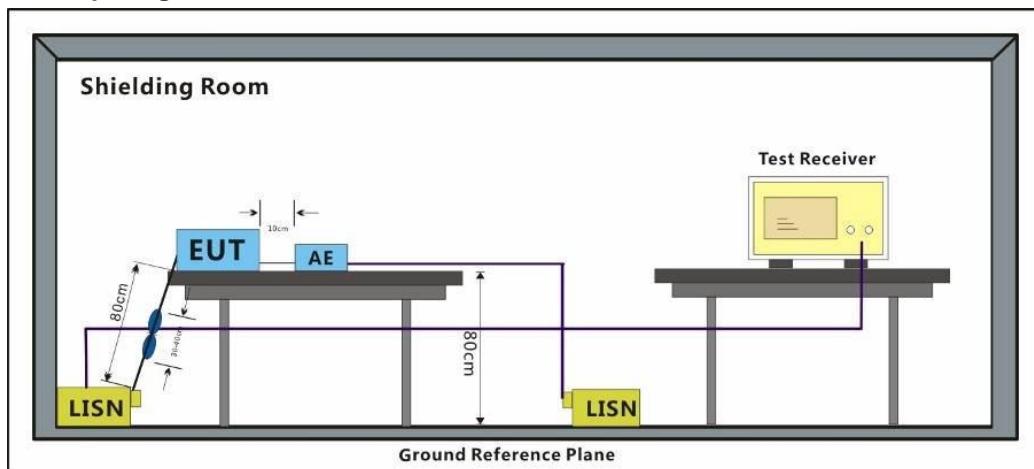
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		transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	17	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

**7.1.3 Test Setup Diagram**

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**7.1.4 Measurement Procedure and Data**

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

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

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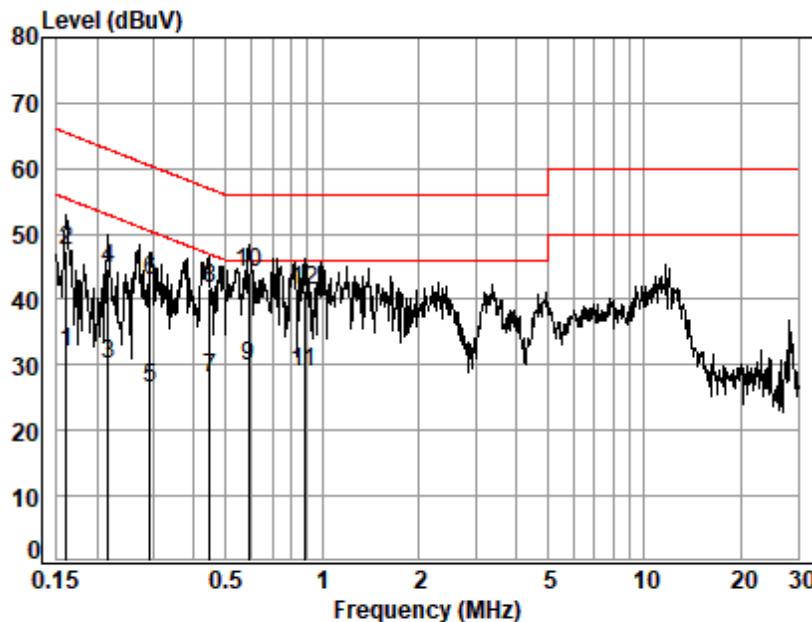
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Test Mode: 14; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 00476AT

Test mode: 14

Freq	Cable Loss	LISN Factor	Read	Limit Line	Over Limit	Remark
			Level			
MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.1607	0.02	0.25	31.79	32.06	55.43 -23.37 Average
2	0.1607	0.02	0.25	47.22	47.49	65.43 -17.94 QP
3	0.2174	0.02	0.26	29.98	30.26	52.92 -22.66 Average
4	0.2174	0.02	0.26	44.39	44.67	62.92 -18.25 QP
5	0.2924	0.03	0.26	26.22	26.51	50.46 -23.95 Average
6	0.2924	0.03	0.26	42.58	42.87	60.46 -17.59 QP
7	0.4468	0.02	0.27	27.83	28.12	46.93 -18.81 Average
8	0.4468	0.02	0.27	41.36	41.65	56.93 -15.28 QP
9	0.5916	0.05	0.24	29.54	29.83	46.00 -16.17 Average
10	0.5916	0.05	0.24	43.72	44.01	56.00 -11.99 QP
11	0.8803	0.02	0.20	28.66	28.88	46.00 -17.12 Average
12	0.8803	0.02	0.20	41.09	41.31	56.00 -14.69 QP



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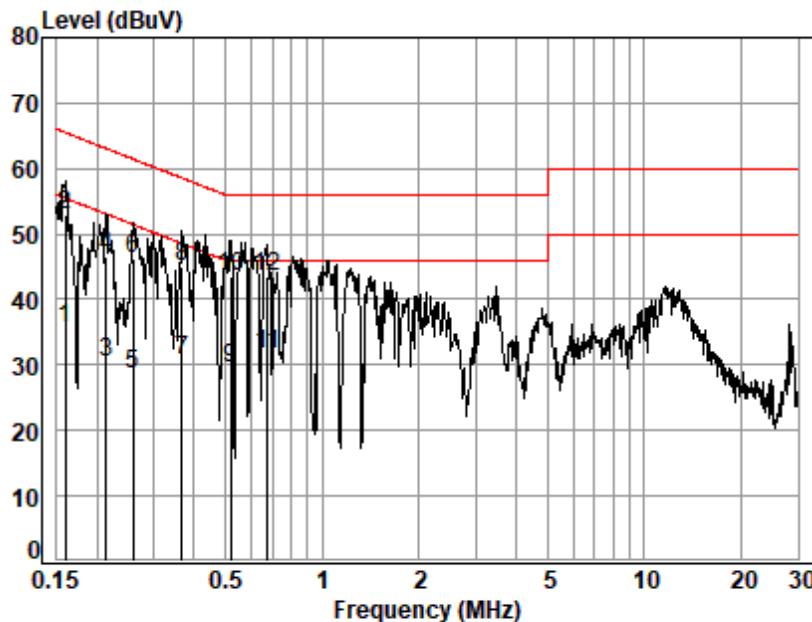
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

Report No.: FYCR221100047605

Page: 18 of 346

Test Mode: 14; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 00476AT

Test mode: 14

Freq	Cable	LISN	Read	Limit	Over	Remark
	Loss	Factor	Level	Level	Line	
	MHz	dB	dB	dBuV	dBuV	dB
1	0.1590	0.02	0.30	35.23	35.55	55.52 -19.97 Average
2	0.1590	0.02	0.30	52.53	52.85	65.52 -12.67 QP
3	0.2139	0.02	0.29	29.96	30.27	53.05 -22.78 Average
4	0.2139	0.02	0.29	46.38	46.69	63.05 -16.36 QP
5	0.2589	0.03	0.28	28.27	28.58	51.47 -22.89 Average
6	0.2589	0.03	0.28	45.87	46.18	61.47 -15.29 QP
7	0.3673	0.03	0.28	30.27	30.58	48.56 -17.98 Average
8	0.3673	0.03	0.28	44.60	44.91	58.56 -13.65 QP
9	0.5182	0.02	0.26	29.26	29.54	46.00 -16.46 Average
10	0.5182	0.02	0.26	43.32	43.60	56.00 -12.40 QP
11	0.6754	0.02	0.17	31.41	31.60	46.00 -14.40 Average
12	0.6754	0.02	0.17	43.36	43.55	56.00 -12.45 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: 24.5 °C      Humidity: 52.3 % RH      Atmospheric Pressure: 1020 mbar

### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

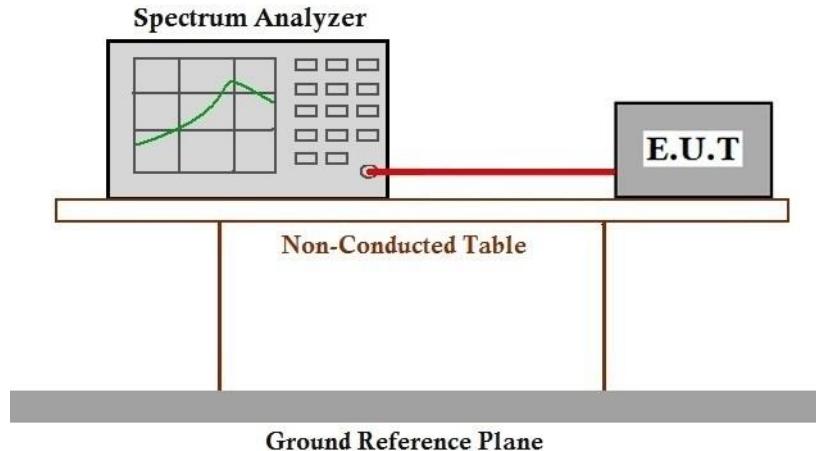
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**7.2.3 Test Setup Diagram****7.2.4 Measurement Procedure and Data**

Please Refer to Appendix for Details



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**7.3 99% Bandwidth**

Test Requirement N/A

Test Method: KDB 789033 II D

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

Operating Environment:

Temperature: 24.5 °C      Humidity: 52.3 % RH      Atmospheric Pressure: 1020 mbar

**7.3.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); final test modes are considering the modulation and worse data rates. Only the data of worst case is

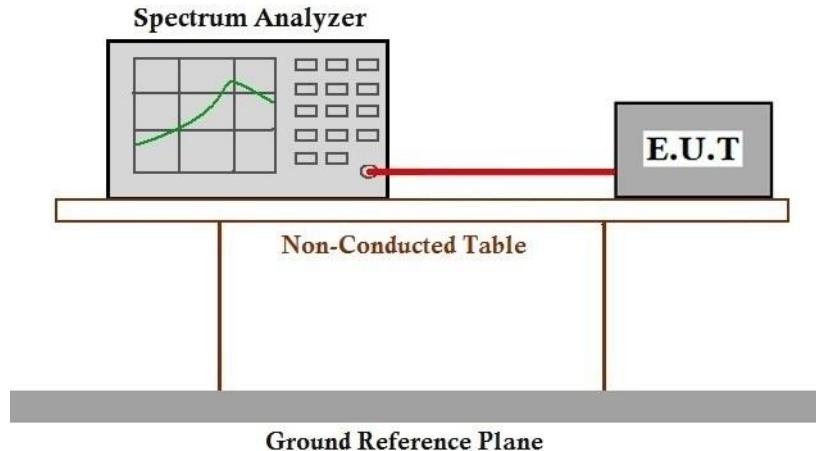
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**7.3.3 Test Setup Diagram****7.3.4 Measurement Procedure and Data**

Please Refer to Appendix for Details

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**7.4 26dB Emission bandwidth**

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

Test Method: KDB 789033 D02 II C 1

**7.4.1 E.U.T. Operation**

Operating Environment:

Temperature: 24.5 °C      Humidity: 52.3 % RH      Atmospheric Pressure: 1020 mbar

**7.4.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); final test modes are considering the modulation and worse data rates. Only the data of worst case is

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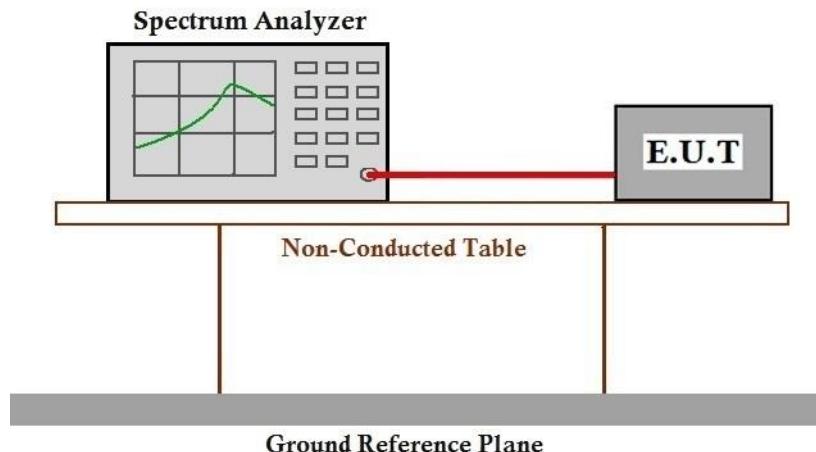
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**7.4.3 Test Setup Diagram****7.4.4 Measurement Procedure and Data**

Please Refer to Appendix for Details



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**7.5 Minimum 6 dB bandwidth (5.725-5.85 GHz band )**

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)  
Test Method: KDB 789033 D02 II C 2

Limit:

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

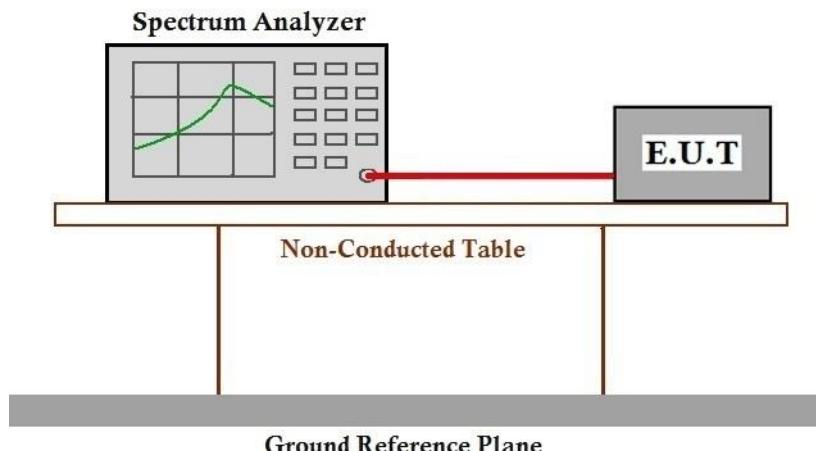
**7.5.1 E.U.T. Operation**

Operating Environment:

Temperature: 24.5 °C      Humidity: 52.3 % RH      Atmospheric Pressure: 1020 mbar

**7.5.2 Test Mode Description**

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

**7.5.3 Test Setup Diagram**

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### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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**7.6 Maximum Conducted output power**

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

Test Method: KDB 789033 D02 II E

Limit:

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

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

Operating Environment:

Temperature: 24.5 °C      Humidity: 52.3 % RH      Atmospheric Pressure: 1020 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are

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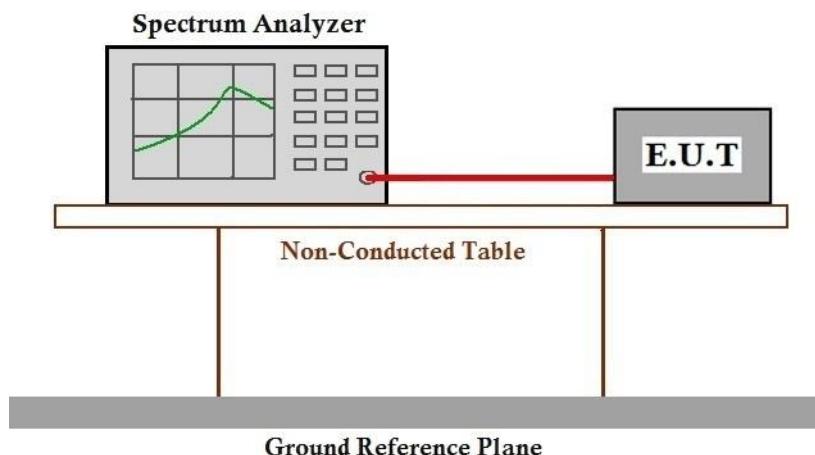
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		considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

### 7.6.3 Test Setup Diagram



### 7.6.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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### 7.7 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

Limit:

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

#### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

Humidity: 52.3 % RH

Atmospheric Pressure: 1020 mbar

#### 7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all

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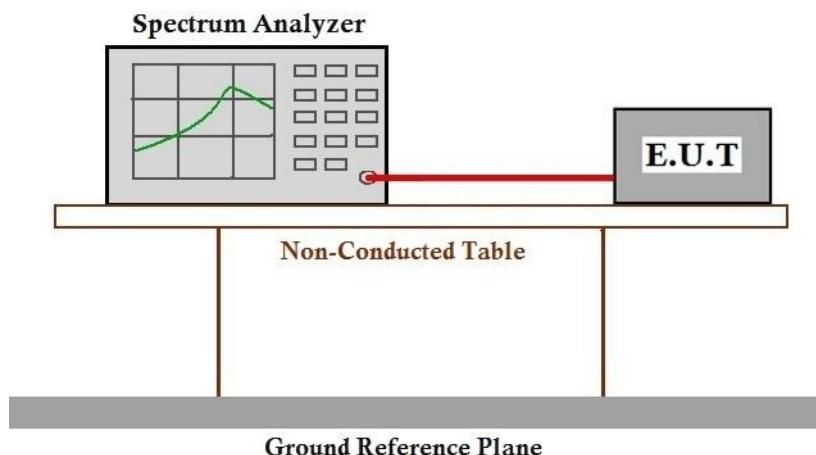
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		modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40);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

**7.7.3 Test Setup Diagram****7.7.4 Measurement Procedure and Data**

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**7.8 Radiated Emissions (Above 1GHz)**

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

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

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

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

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

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

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

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

Operating Environment:

Temperature: 24.5 °C

Humidity: 52.3 % RH

Atmospheric Pressure: 1020 mbar



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### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	10	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	11	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	12	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	14	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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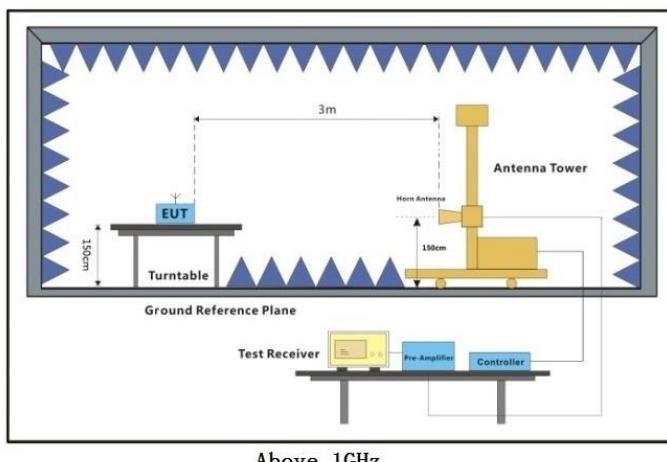
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Final test	15	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

### 7.8.3 Test Setup Diagram



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**7.8.4 Measurement Procedure and Data**

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

**Remark:**

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

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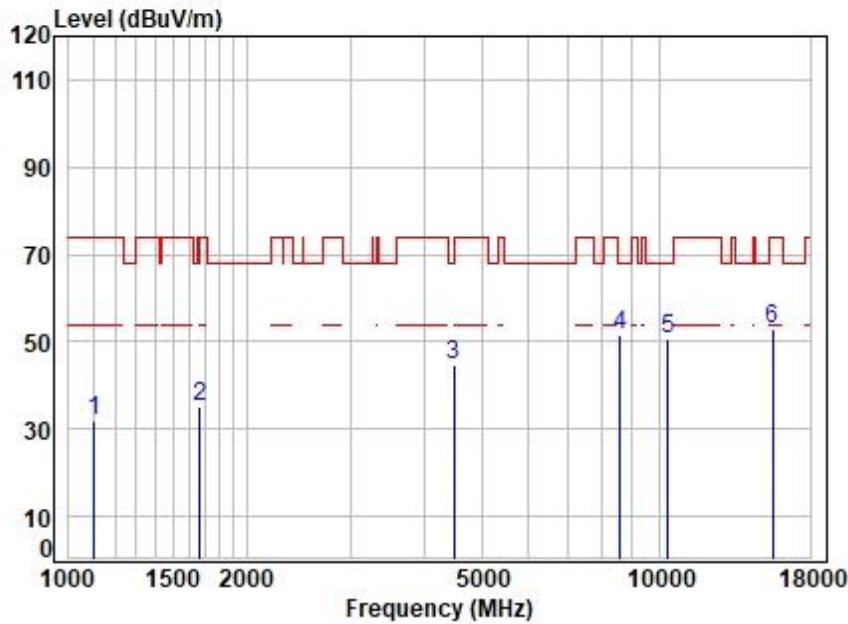
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Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00476AT  
 Mode : 5180 TX RSE  
 Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
								dB	dB/m
1 1103.264	2.91	24.21	52.59	57.28	31.81	74.00	-42.19	peak	
2 1667.951	4.13	24.94	52.94	59.10	35.23	74.00	-38.77	peak	
3 4482.150	7.47	30.18	52.95	59.90	44.60	68.20	-23.60	peak	
4 8588.607	9.87	36.14	53.96	59.70	51.75	68.20	-16.45	peak	
5 10360.000	11.08	38.85	53.35	54.20	50.78	68.20	-17.42	peak	
6 15540.000	13.49	39.74	53.43	53.10	52.90	74.00	-21.10	peak	

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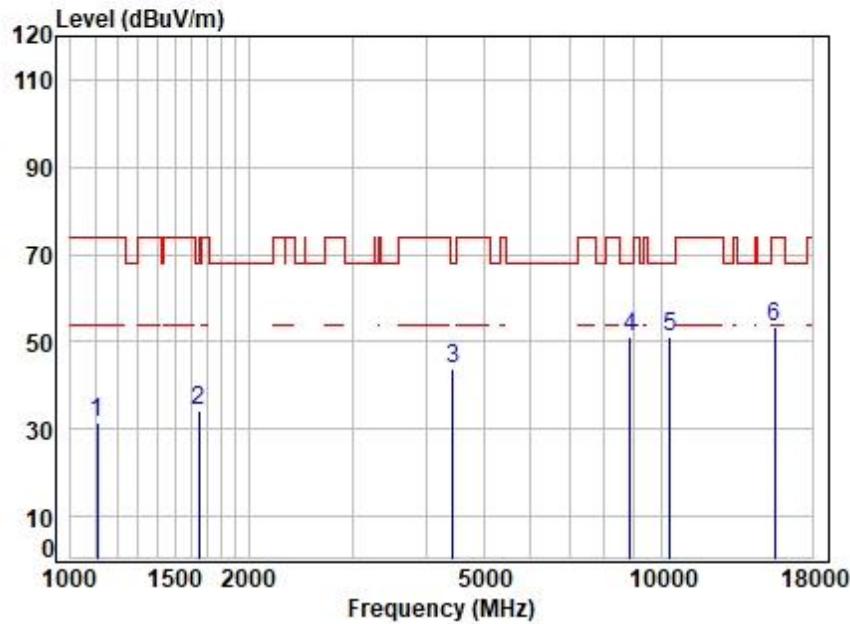
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Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5180 TX RSE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1109.660	2.93	24.21	52.59	56.82	31.37	74.00	-42.63 peak
2 1648.778	4.09	24.90	52.93	58.24	34.30	68.20	-33.90 peak
3 4430.628	7.47	30.11	52.94	58.97	43.61	68.20	-24.59 peak
4 8866.062	10.47	36.11	54.12	58.56	51.02	68.20	-17.18 peak
5 10360.000	11.08	38.85	53.35	54.62	51.20	68.20	-17.00 peak
6 15540.000	13.49	39.74	53.43	53.52	53.32	74.00	-20.68 peak

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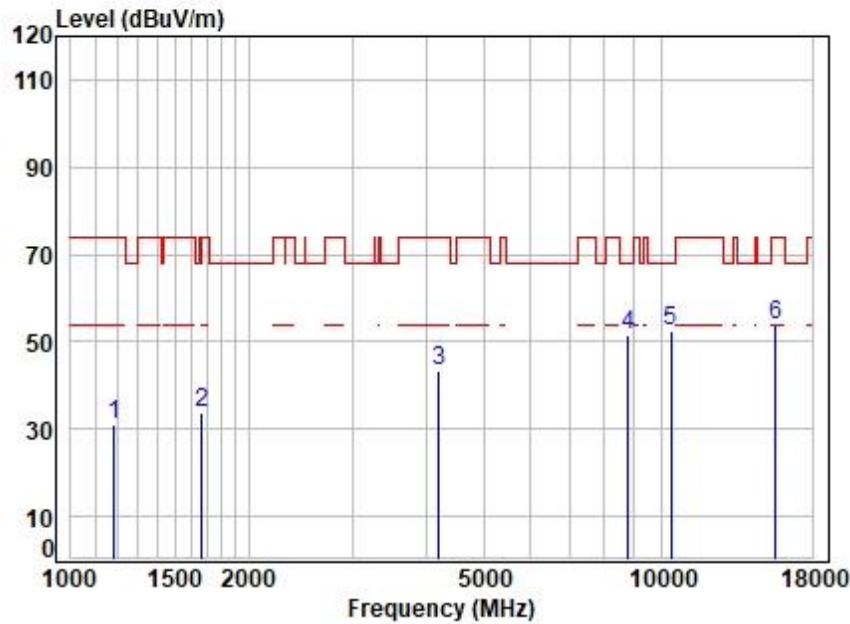
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Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5200 TX RSE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
MHz									
1 1185.936	3.12	24.29	52.65	56.31	31.07	74.00	-42.93	peak	
2 1667.951	4.13	24.94	52.94	57.78	33.91	74.00	-40.09	peak	
3 4206.011	7.48	29.80	52.87	59.14	43.55	74.00	-30.45	peak	
4 8789.516	10.30	36.12	54.08	59.26	51.60	68.20	-16.60	peak	
5 10400.000	11.07	38.89	53.36	55.85	52.45	68.20	-15.75	peak	
6 15600.000	13.50	39.53	53.40	54.07	53.70	74.00	-20.30	peak	

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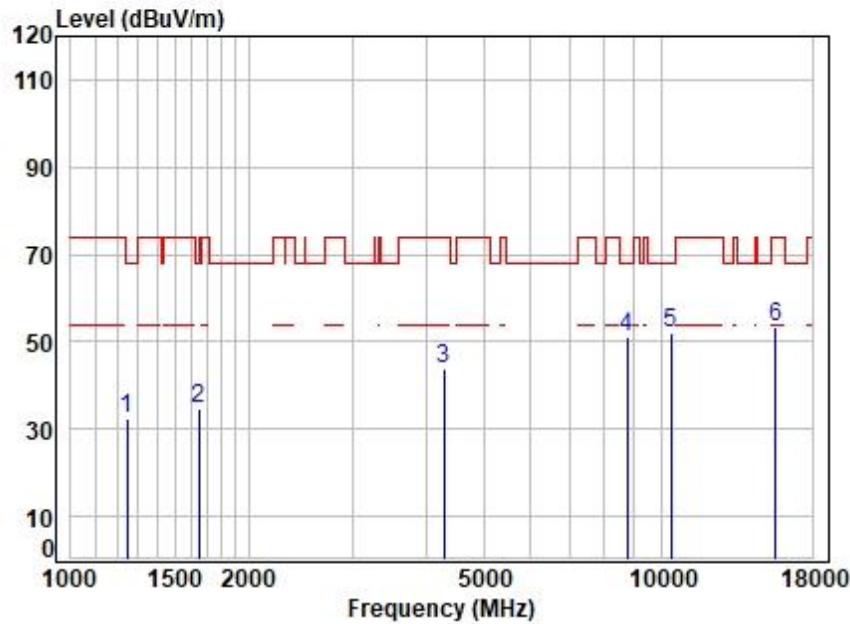
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Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5200 TX RSE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1245.663	3.25	24.28	52.69	57.38	32.22	68.20	-35.98	peak	
2 1648.778	4.09	24.90	52.93	58.39	34.45	68.20	-33.75	peak	
3 4279.589	7.48	29.90	52.89	59.35	43.84	74.00	-30.16	peak	
4 8764.146	10.25	36.12	54.06	58.99	51.30	68.20	-16.90	peak	
5 10400.000	11.07	38.89	53.36	55.32	51.92	68.20	-16.28	peak	
6 15600.000	13.50	39.53	53.40	53.71	53.34	74.00	-20.66	peak	

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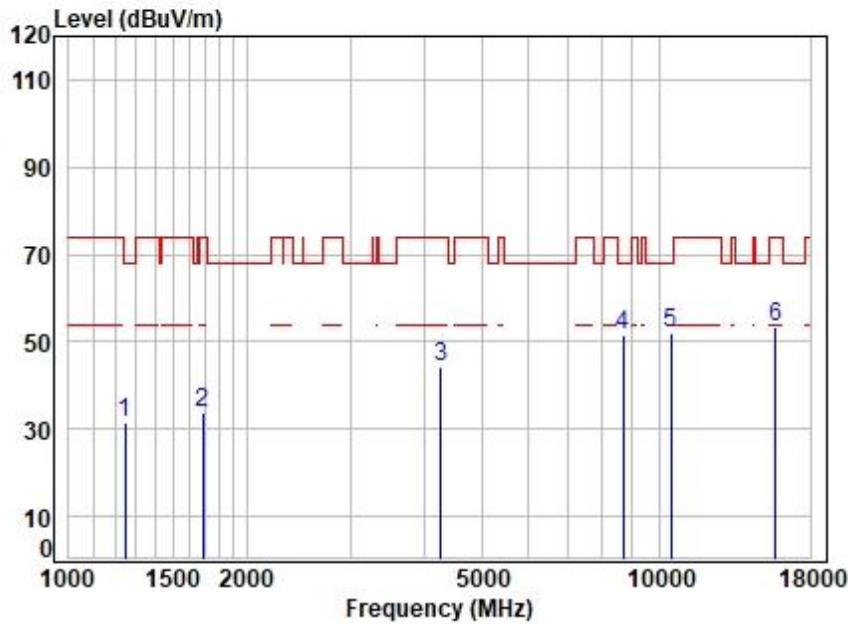
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Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5240 TX RSE  
Note : 5G WIFI 11A

Freq MHz	Cable Loss	Ant Factor	Preamp Factor	Read Level dB	Limit Level dBuV	Line Level dBuV/m	Over Limit dBuV/m	Over Limit dB	Remark
	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1245.663	3.25	24.28	52.69	56.47	31.31	68.20	-36.89	peak	
2 1687.347	4.17	24.98	52.95	57.70	33.90	74.00	-40.10	peak	
3 4267.237	7.48	29.88	52.89	59.71	44.18	74.00	-29.82	peak	
4 8688.480	10.08	36.13	54.02	59.27	51.46	68.20	-16.74	peak	
5 10480.000	11.06	38.99	53.40	55.30	51.95	68.20	-16.25	peak	
6 15720.000	13.50	39.13	53.34	53.97	53.26	74.00	-20.74	peak	

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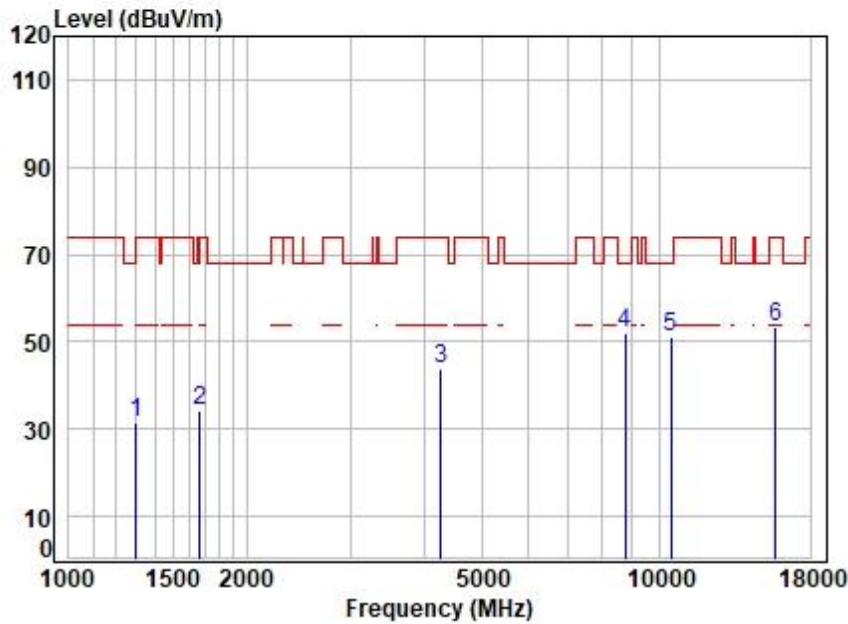
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5240 TX RSE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
MHz									
1	1300.858	3.37	24.25	52.73	56.63	31.52	74.00	-42.48	peak
2	1667.951	4.13	24.94	52.94	58.29	34.42	74.00	-39.58	peak
3	4267.237	7.48	29.88	52.89	59.44	43.91	74.00	-30.09	peak
4	8738.852	10.19	36.12	54.05	59.59	51.85	68.20	-16.35	peak
5	10480.000	11.06	38.99	53.40	54.41	51.06	68.20	-17.14	peak
6	15720.000	13.50	39.13	53.34	54.15	53.44	74.00	-20.56	peak

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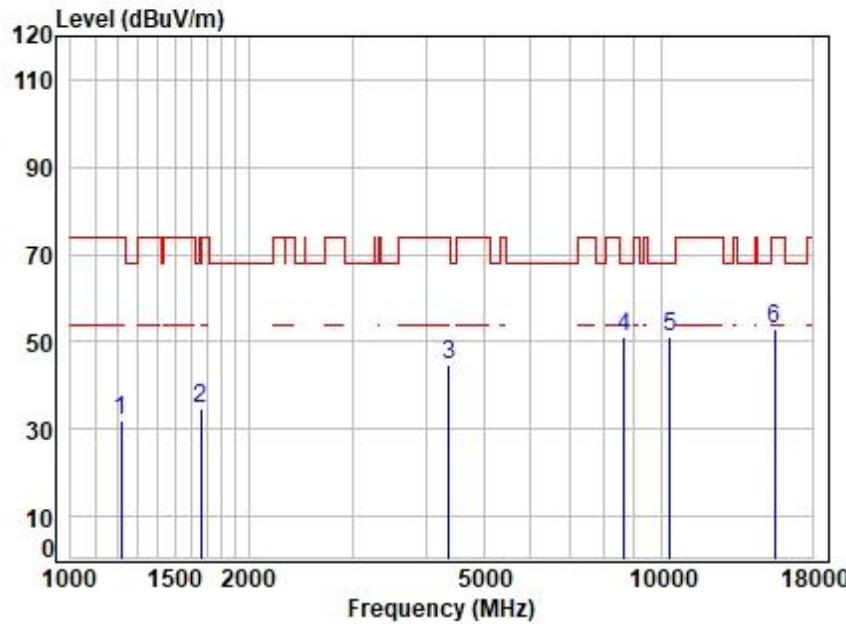
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5180 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1217.190	3.19	24.29	52.67	57.29	32.10	74.00	-41.90 peak
2 1658.337	4.11	24.92	52.94	58.59	34.68	68.20	-33.52 peak
3 4367.058	7.48	30.02	52.92	60.13	44.71	74.00	-29.29 peak
4 8663.404	10.03	36.13	54.01	58.74	50.89	68.20	-17.31 peak
5 10360.000	11.08	38.85	53.35	54.61	51.19	68.20	-17.01 peak
6 15540.000	13.49	39.74	53.43	53.33	53.13	74.00	-20.87 peak

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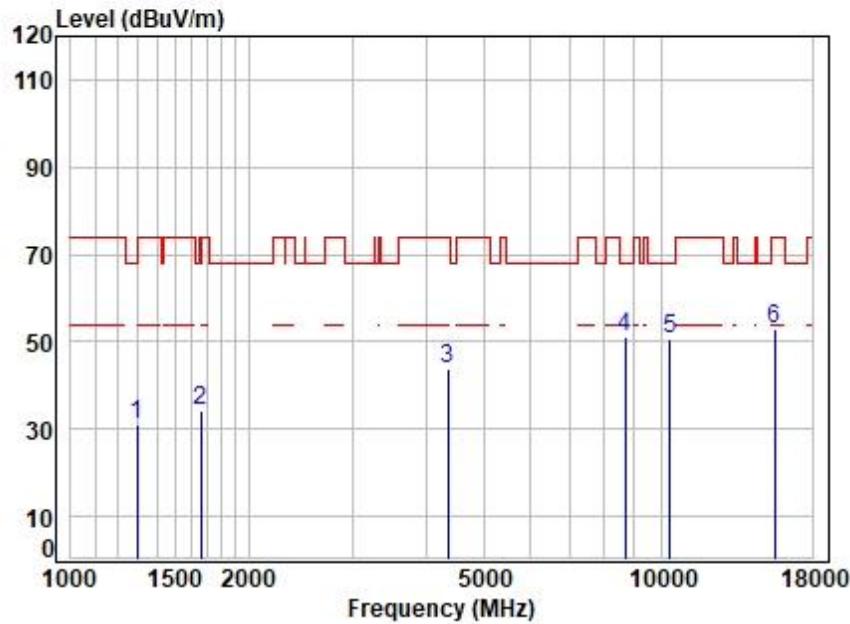
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5180 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1293.359	3.36	24.25	52.72	56.13	31.02	68.20	-37.18	peak	
2 1658.337	4.11	24.92	52.94	58.22	34.31	68.20	-33.89	peak	
3 4354.454	7.48	30.00	52.91	59.20	43.77	74.00	-30.23	peak	
4 8688.480	10.08	36.13	54.02	59.08	51.27	68.20	-16.93	peak	
5 10360.000	11.08	38.85	53.35	54.15	50.73	68.20	-17.47	peak	
6 15540.000	13.49	39.74	53.43	53.34	53.14	74.00	-20.86	peak	

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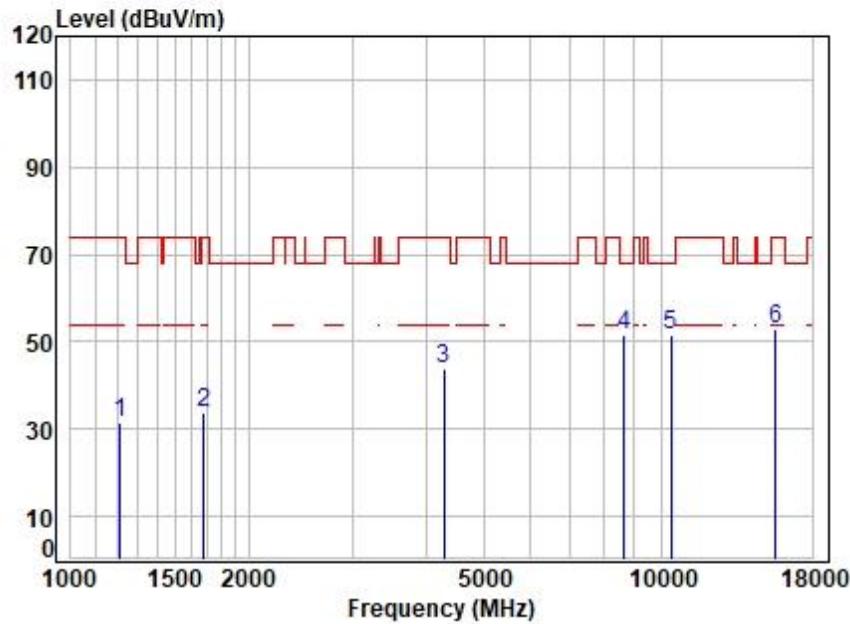
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5200 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1213.677	3.18	24.29	52.67	56.79	31.59	74.00	-42.41	peak	
2 1682.477	4.16	24.97	52.95	57.76	33.94	74.00	-40.06	peak	
3 4291.977	7.48	29.92	52.89	59.16	43.67	74.00	-30.33	peak	
4 8663.404	10.03	36.13	54.01	59.39	51.54	68.20	-16.66	peak	
5 10400.000	11.07	38.89	53.36	54.81	51.41	68.20	-16.79	peak	
6 15600.000	13.50	39.53	53.40	53.42	53.05	74.00	-20.95	peak	

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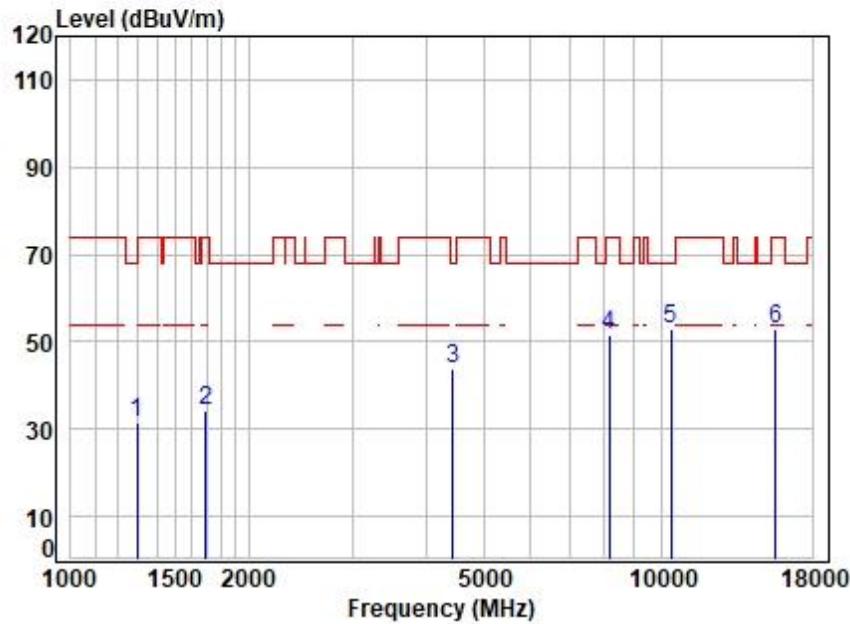
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5200 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1297.103	3.36	24.25	52.73	56.80	31.68	68.20	-36.52	peak	
2 1692.231	4.18	24.99	52.96	57.99	34.20	74.00	-39.80	peak	
3 4443.453	7.47	30.12	52.94	59.11	43.76	68.20	-24.44	peak	
4 8176.795	9.52	36.18	53.71	59.71	51.70	74.00	-22.30	peak	
5 10400.000	11.07	38.89	53.36	56.49	53.09	68.20	-15.11	peak	
6 15600.000	13.50	39.53	53.40	53.21	52.84	74.00	-21.16	peak	

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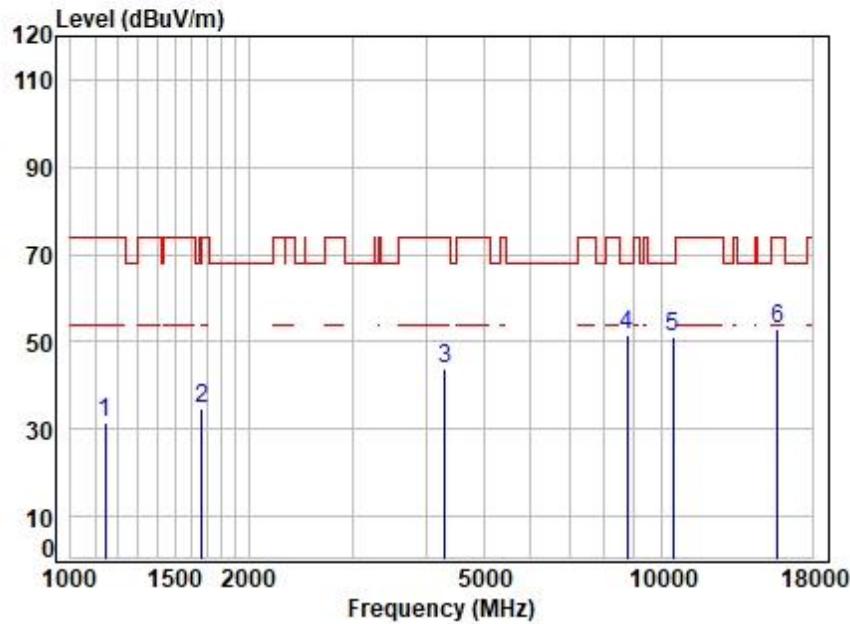
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Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5240 TX RSE  
Note : 5G WIFI 11N20

Freq MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dB	Limit Level dBuV	Line Level dBuV/m	Over Limit dBuV/m	Over Limit dB	Over Limit Remark
1 1142.201	3.01	24.25	52.62	57.05	31.69	74.00	-42.31	peak	
2 1667.951	4.13	24.94	52.94	58.55	34.68	74.00	-39.32	peak	
3 4304.400	7.48	29.94	52.90	59.10	43.62	74.00	-30.38	peak	
4 8764.146	10.25	36.12	54.06	59.37	51.68	68.20	-16.52	peak	
5 10480.000	11.06	38.99	53.40	54.48	51.13	68.20	-17.07	peak	
6 15720.000	13.50	39.13	53.34	53.73	53.02	74.00	-20.98	peak	

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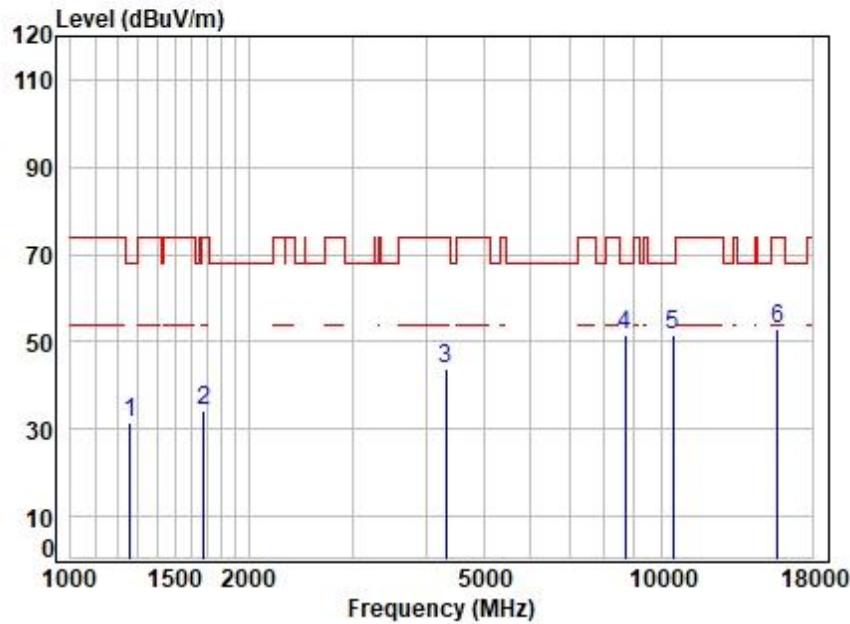
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Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5240 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
								dB	dB/m
1	1260.149	3.28	24.27	52.70	56.53	31.38	68.20	-36.82	peak
2	1677.621	4.15	24.96	52.95	57.97	34.13	74.00	-39.87	peak
3	4316.859	7.48	29.95	52.90	59.25	43.78	74.00	-30.22	peak
4	8688.480	10.08	36.13	54.02	59.16	51.35	68.20	-16.85	peak
5	10480.000	11.06	38.99	53.40	55.08	51.73	68.20	-16.47	peak
6	15720.000	13.50	39.13	53.34	53.86	53.15	74.00	-20.85	peak

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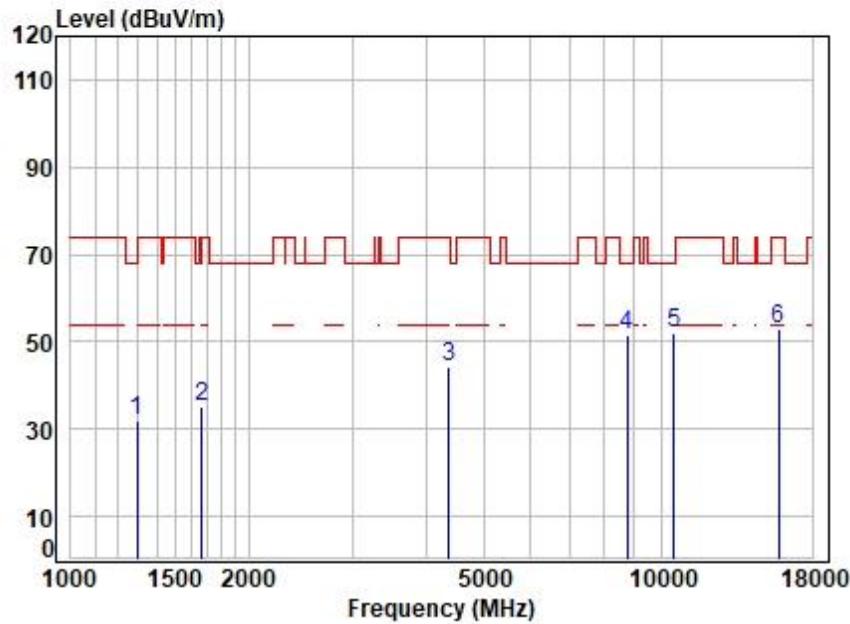
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5260 TX RSE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1297.103	3.36	24.25	52.73	56.89	31.77	68.20	-36.43	peak	
2 1667.951	4.13	24.94	52.94	59.10	35.23	74.00	-38.77	peak	
3 4367.058	7.48	30.02	52.92	59.87	44.45	74.00	-29.55	peak	
4 8764.146	10.25	36.12	54.06	59.24	51.55	68.20	-16.65	peak	
5 10520.000	11.07	39.04	53.41	55.14	51.84	68.20	-16.36	peak	
6 15780.000	13.51	38.93	53.31	53.72	52.85	74.00	-21.15	peak	

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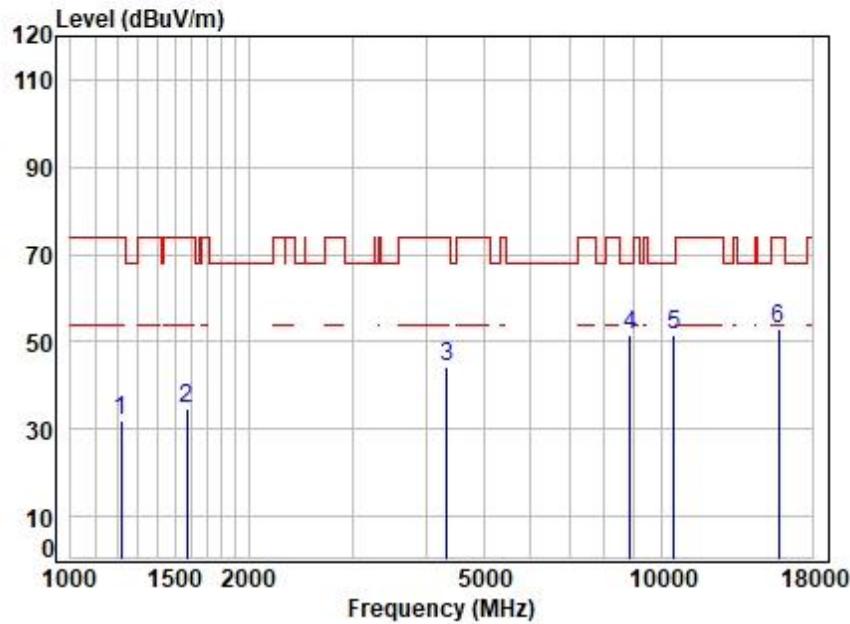
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5260 TX RSE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1217.190	3.19	24.29	52.67	57.12	31.93	74.00	-42.07	peak	
2 1574.265	3.93	24.73	52.89	58.91	34.68	74.00	-39.32	peak	
3 4329.354	7.48	29.97	52.91	59.73	44.27	74.00	-29.73	peak	
4 8866.062	10.47	36.11	54.12	59.06	51.52	68.20	-16.68	peak	
5 10520.000	11.07	39.04	53.41	54.92	51.62	68.20	-16.58	peak	
6 15780.000	13.51	38.93	53.31	53.79	52.92	74.00	-21.08	peak	

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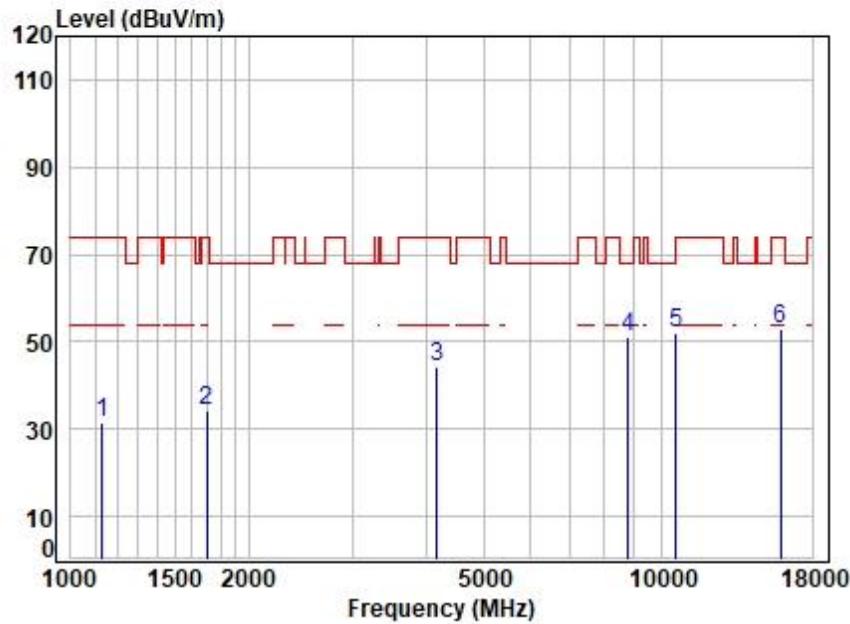
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Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5300 TX RSE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
MHz									
1 1132.340	2.99	24.24	52.61	56.99	31.61	74.00	-42.39	peak	
2 1697.129	4.19	25.00	52.96	58.01	34.24	74.00	-39.76	peak	
3 4169.698	7.48	29.75	52.86	59.88	44.25	74.00	-29.75	peak	
4 8789.516	10.30	36.12	54.08	58.76	51.10	68.20	-17.10	peak	
5 10600.000	11.12	39.13	53.44	55.09	51.90	68.20	-16.30	peak	
6 15900.000	13.51	38.53	53.25	54.14	52.93	74.00	-21.07	peak	

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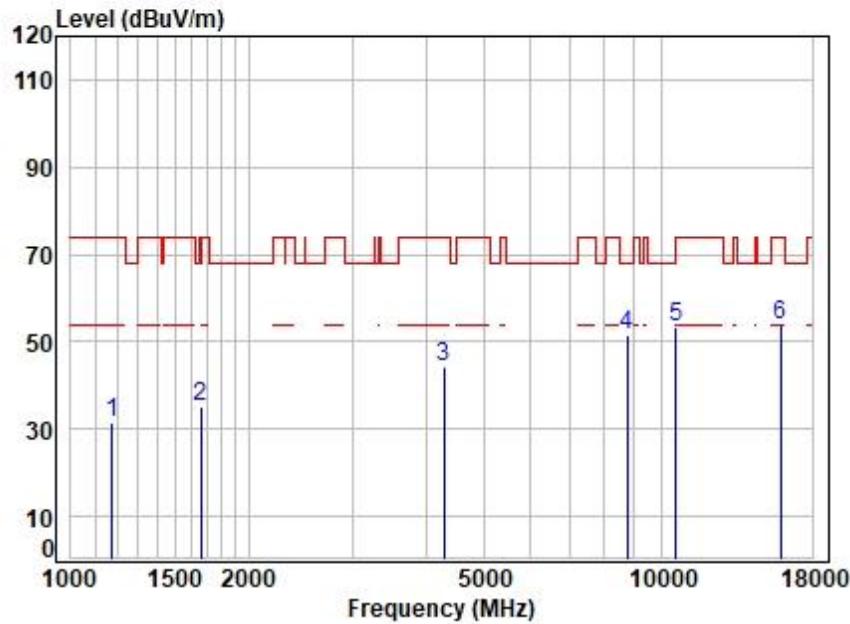
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5300 TX RSE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Limit	Over	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1175.697	3.09	24.28	52.64	56.93	31.66	74.00	-42.34	peak
2 1663.137	4.12	24.93	52.94	58.87	34.98	74.00	-39.02	peak
3 4291.977	7.48	29.92	52.89	59.85	44.36	74.00	-29.64	peak
4 8764.146	10.25	36.12	54.06	59.40	51.71	68.20	-16.49	peak
5 10600.000	11.12	39.13	53.44	56.37	53.18	68.20	-15.02	peak
6 15900.000	13.51	38.53	53.25	54.88	53.67	74.00	-20.33	peak

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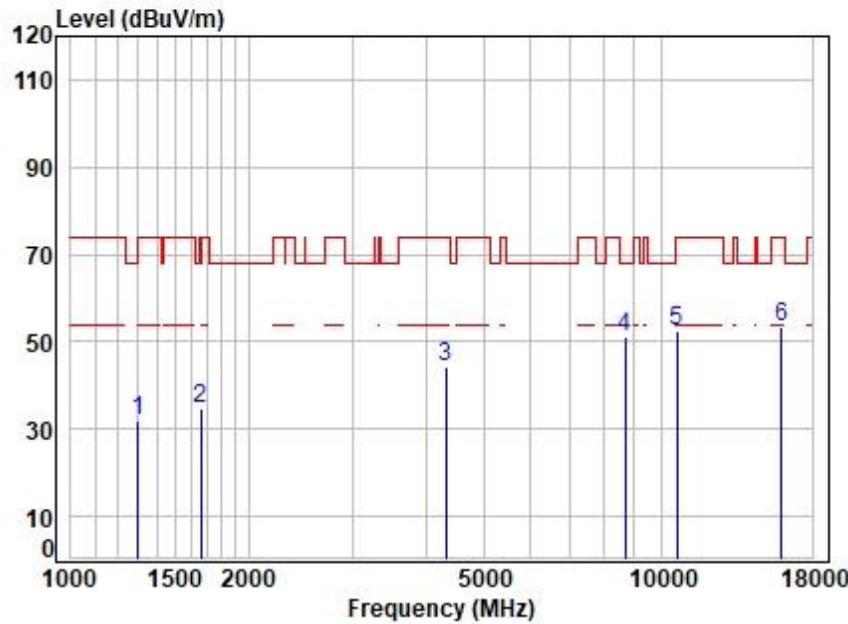
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5320 TX RSE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Over Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1300.858	3.37	24.25	52.73	57.05	31.94	74.00	-42.06	peak
2 1663.137	4.12	24.93	52.94	58.43	34.54	74.00	-39.46	peak
3 4316.859	7.48	29.95	52.90	59.61	44.14	74.00	-29.86	peak
4 8688.480	10.08	36.13	54.02	59.12	51.31	68.20	-16.89	peak
5 10640.000	11.15	39.18	53.46	55.72	52.59	74.00	-21.41	peak
6 15960.000	13.52	38.33	53.22	54.62	53.25	74.00	-20.75	peak

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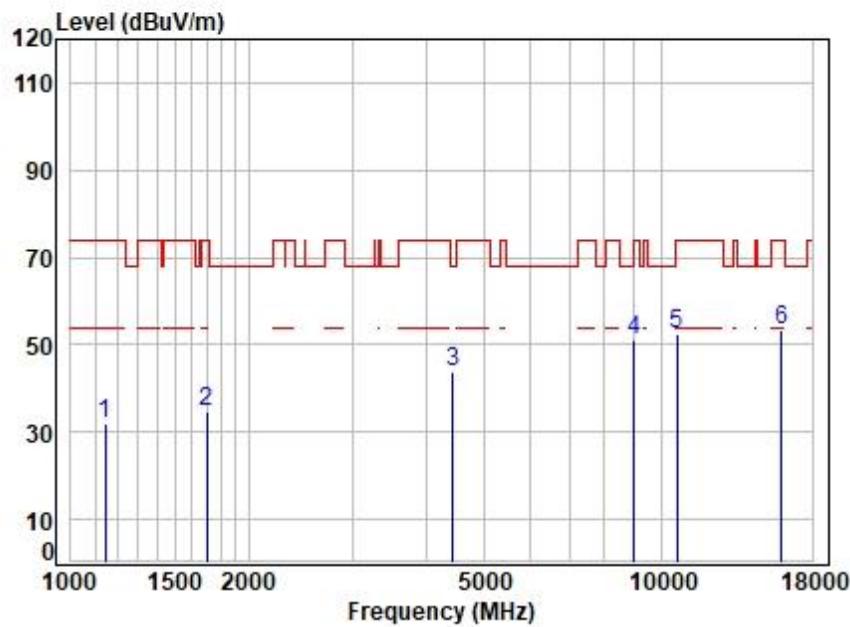
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Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5320 TX RSE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1145.507	3.02	24.25	52.62	57.38	32.03	74.00	-41.97	peak	
2 1702.042	4.20	25.01	52.96	58.25	34.50	74.00	-39.50	peak	
3 4430.628	7.47	30.11	52.94	59.37	44.01	68.20	-24.19	peak	
4 8995.123	10.74	36.10	54.20	58.58	51.22	68.20	-16.98	peak	
5 10640.000	11.15	39.18	53.46	55.49	52.36	74.00	-21.64	peak	
6 15960.000	13.52	38.33	53.22	54.78	53.41	74.00	-20.59	peak	

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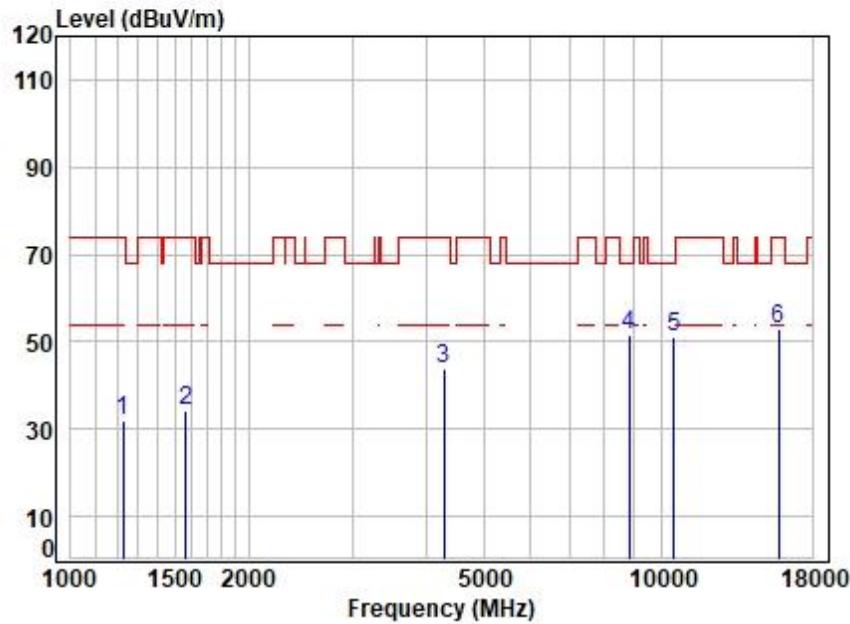
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Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5260 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
MHz									
1 1227.791	3.21	24.29	52.68	57.31	32.13	74.00	-41.87	peak	
2 1569.721	3.92	24.71	52.89	58.30	34.04	74.00	-39.96	peak	
3 4291.977	7.48	29.92	52.89	59.10	43.61	74.00	-30.39	peak	
4 8814.957	10.36	36.12	54.09	59.13	51.52	68.20	-16.68	peak	
5 10520.000	11.07	39.04	53.41	54.63	51.33	68.20	-16.87	peak	
6 15780.000	13.51	38.93	53.31	53.91	53.04	74.00	-20.96	peak	

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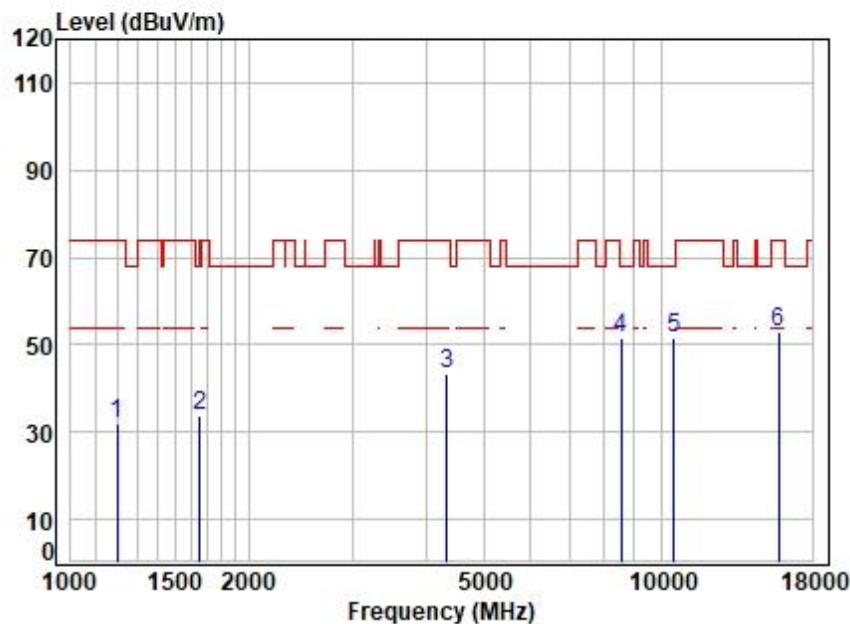
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Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5260 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
MHz									
1 1196.264	3.14	24.30	52.66	57.17	31.95	74.00	-42.05	peak	
2 1653.550	4.10	24.91	52.94	57.67	33.74	68.20	-34.46	peak	
3 4329.354	7.48	29.97	52.91	58.76	43.30	74.00	-30.70	peak	
4 8563.818	9.81	36.14	53.95	59.37	51.37	68.20	-16.83	peak	
5 10520.000	11.07	39.04	53.41	54.96	51.66	68.20	-16.54	peak	
6 15780.000	13.51	38.93	53.31	53.90	53.03	74.00	-20.97	peak	

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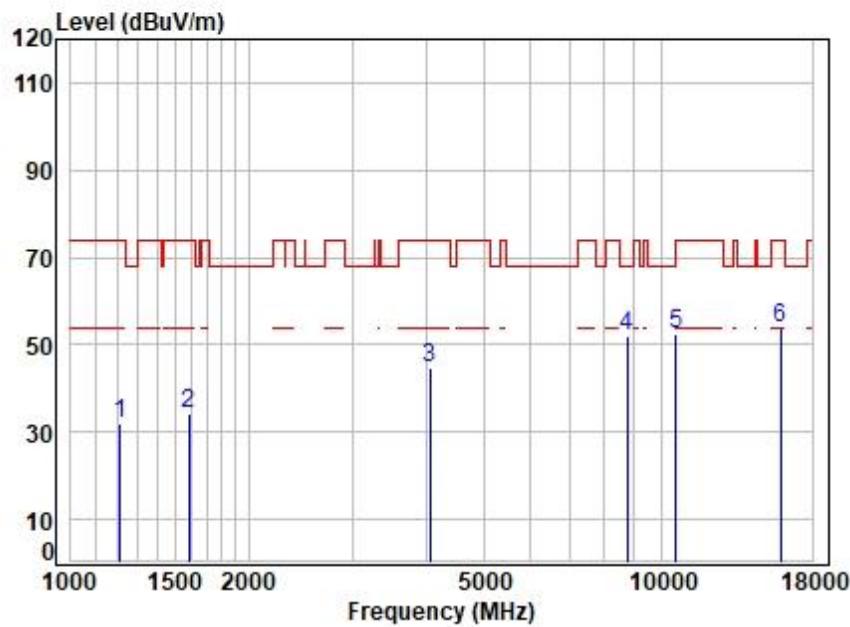
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5300 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
								dB	dB/m
1	1210.174	3.17	24.29	52.67	57.05	31.84	74.00	-42.16	peak
2	1587.975	3.96	24.77	52.90	58.60	34.43	74.00	-39.57	peak
3	4062.629	7.49	29.59	52.82	60.67	44.93	74.00	-29.07	peak
4	8738.852	10.19	36.12	54.05	59.56	51.82	68.20	-16.38	peak
5	10600.000	11.12	39.13	53.44	55.67	52.48	68.20	-15.72	peak
6	15900.000	13.51	38.53	53.25	54.88	53.67	74.00	-20.33	peak

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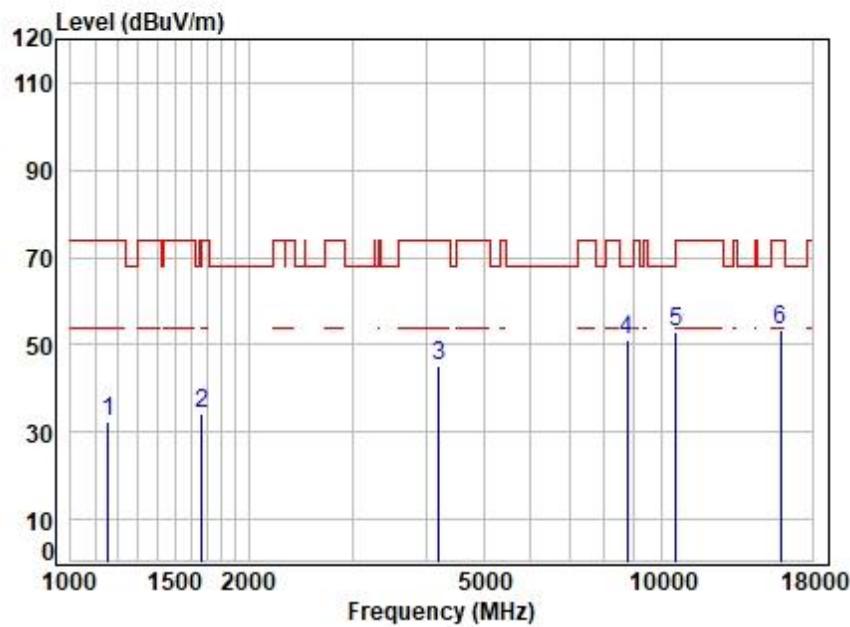
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5300 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1158.828	3.05	24.26	52.63	57.81	32.49	74.00	-41.51	peak	
2 1667.951	4.13	24.94	52.94	58.11	34.24	74.00	-39.76	peak	
3 4206.011	7.48	29.80	52.87	60.66	45.07	74.00	-28.93	peak	
4 8738.852	10.19	36.12	54.05	59.04	51.30	68.20	-16.90	peak	
5 10600.000	11.12	39.13	53.44	56.00	52.81	68.20	-15.39	peak	
6 15900.000	13.51	38.53	53.25	54.66	53.45	74.00	-20.55	peak	

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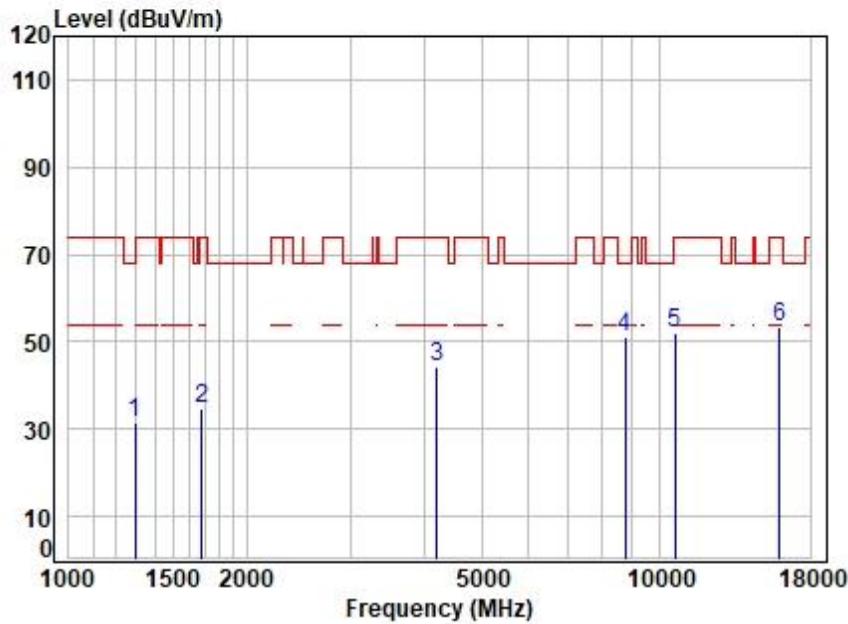
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Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5320 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
								dB	dB/m
1	1293.359	3.36	24.25	52.72	56.74	31.63	68.20	-36.57	peak
2	1682.477	4.16	24.97	52.95	58.59	34.77	74.00	-39.23	peak
3	4193.872	7.48	29.78	52.86	60.05	44.45	74.00	-29.55	peak
4	8738.852	10.19	36.12	54.05	58.87	51.13	68.20	-17.07	peak
5	10640.000	11.15	39.18	53.46	55.10	51.97	74.00	-22.03	peak
6	15960.000	13.52	38.33	53.22	54.88	53.51	74.00	-20.49	peak

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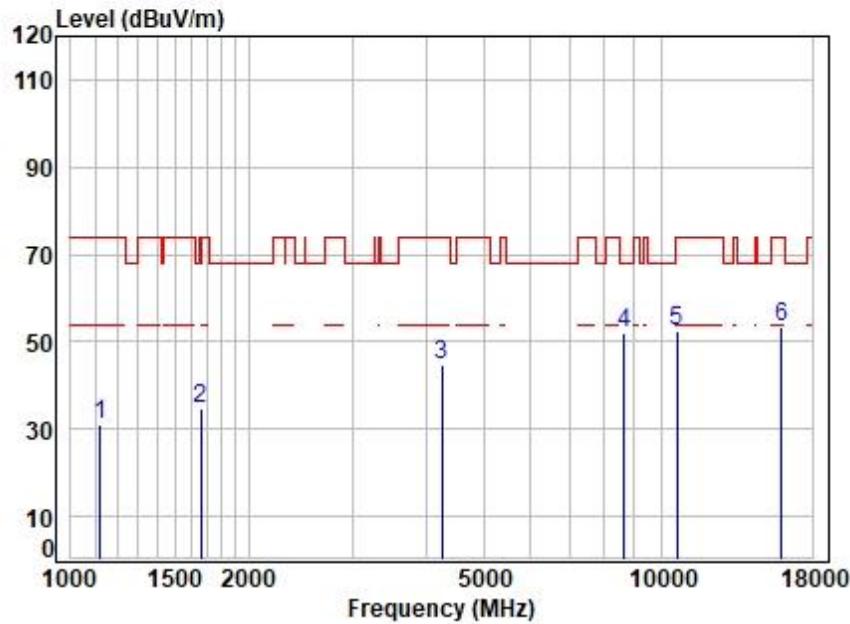
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5320 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
MHz									
1 1122.563	2.96	24.23	52.60	56.63	31.22	74.00	-42.78	peak	
2 1663.137	4.12	24.93	52.94	58.43	34.54	74.00	-39.46	peak	
3 4242.641	7.48	29.85	52.88	60.19	44.64	74.00	-29.36	peak	
4 8663.404	10.03	36.13	54.01	59.74	51.89	68.20	-16.31	peak	
5 10640.000	11.15	39.18	53.46	55.57	52.44	74.00	-21.56	peak	
6 15960.000	13.52	38.33	53.22	54.97	53.60	74.00	-20.40	peak	

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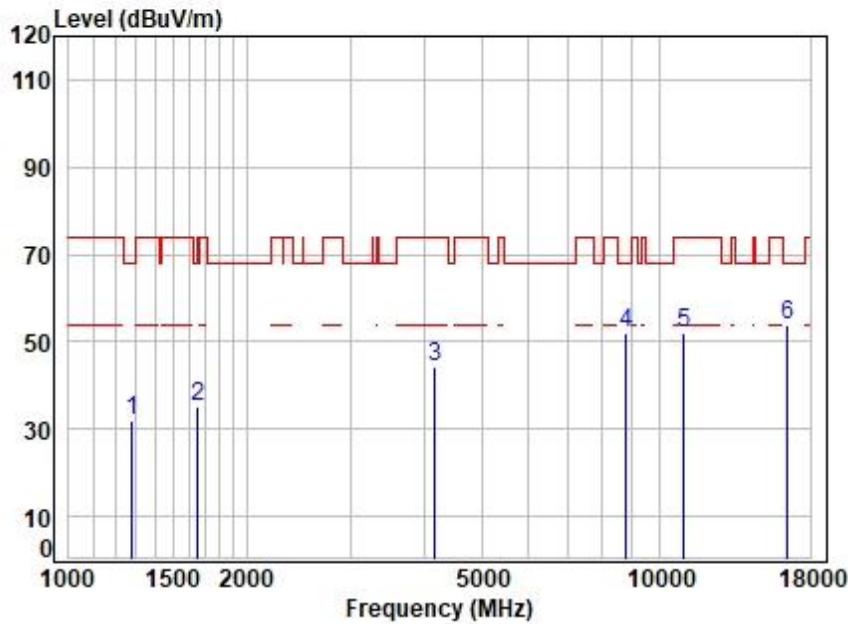
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5500 TX RSE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Limit	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1282.193	3.33	24.26	52.72	56.87	31.74	68.20	-36.46	peak
2 1653.550	4.10	24.91	52.94	59.14	35.21	68.20	-32.99	peak
3 4169.698	7.48	29.75	52.86	59.71	44.08	74.00	-29.92	peak
4 8789.516	10.30	36.12	54.08	59.49	51.83	68.20	-16.37	peak
5 11000.000	11.36	39.60	53.60	54.57	51.93	74.00	-22.07	peak
6 16500.000	14.69	39.93	52.90	52.12	53.84	68.20	-14.36	peak

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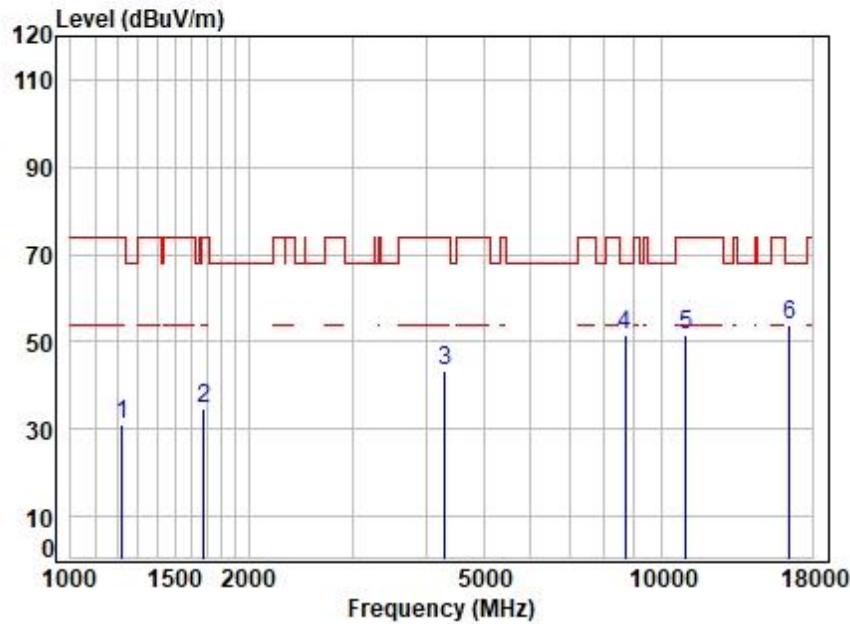
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5500 TX RSE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
1	1220.714	3.20	24.29	52.67	56.42	31.24	74.00	-42.76	peak
2	1682.477	4.16	24.97	52.95	58.59	34.77	74.00	-39.23	peak
3	4304.400	7.48	29.94	52.90	58.75	43.27	74.00	-30.73	peak
4	8688.480	10.08	36.13	54.02	59.14	51.33	68.20	-16.87	peak
5	11000.000	11.36	39.60	53.60	54.33	51.69	74.00	-22.31	peak
6	16500.000	14.69	39.93	52.90	52.00	53.72	68.20	-14.48	peak

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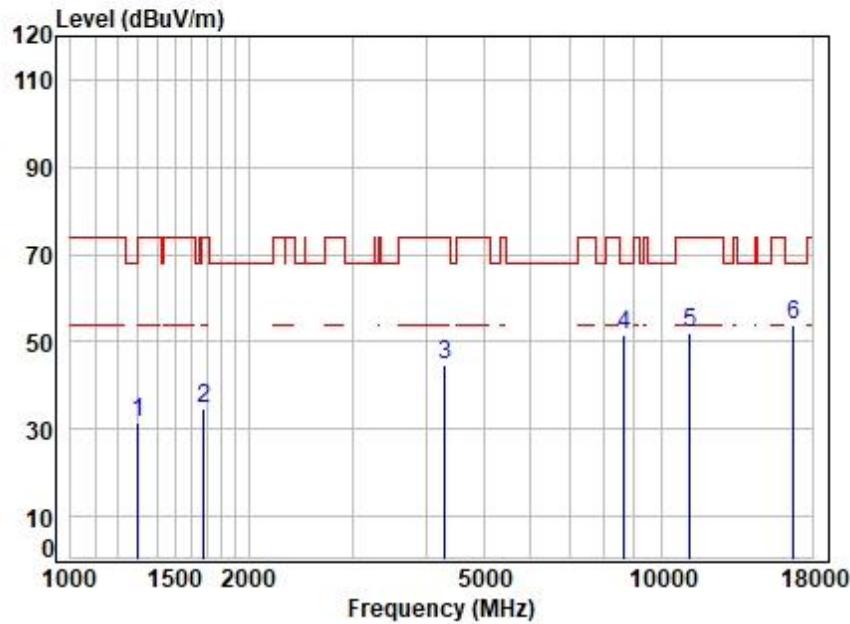
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Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5580 TX RSE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Limit	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1300.858	3.37	24.25	52.73	56.37	31.26	74.00	-42.74	peak
2 1682.477	4.16	24.97	52.95	58.34	34.52	74.00	-39.48	peak
3 4304.400	7.48	29.94	52.90	60.16	44.68	74.00	-29.32	peak
4 8663.404	10.03	36.13	54.01	59.44	51.59	68.20	-16.61	peak
5 11160.000	11.44	39.63	53.67	54.41	51.81	74.00	-22.19	peak
6 16740.000	14.50	40.74	52.75	51.45	53.94	68.20	-14.26	peak

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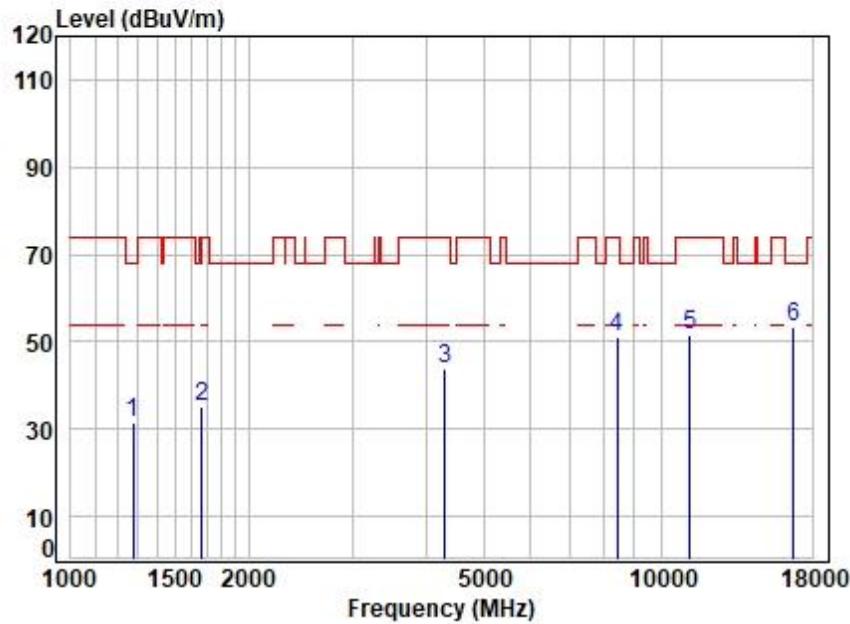
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Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5580 TX RSE  
Note : 5G WIFI 11A

Freq MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dB	Limit Level dBuV	Line Level dBuV/m	Over Limit dBuV/m	Over Limit dB	Over Limit Remark
1 1274.802	3.32	24.26	52.71	56.63	31.50	68.20	-36.70	peak	
2 1667.951	4.13	24.94	52.94	59.04	35.17	74.00	-38.83	peak	
3 4304.400	7.48	29.94	52.90	59.34	43.86	74.00	-30.14	peak	
4 8416.584	9.63	36.16	53.86	59.35	51.28	74.00	-22.72	peak	
5 11160.000	11.44	39.63	53.67	54.33	51.73	74.00	-22.27	peak	
6 16740.000	14.50	40.74	52.75	50.83	53.32	68.20	-14.88	peak	

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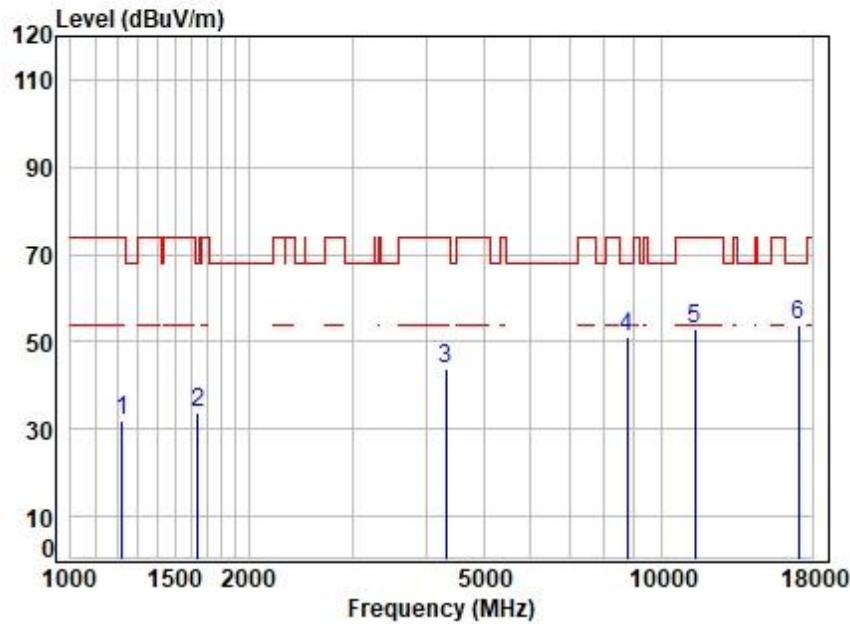
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Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5700 TX RSE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
								dB	dB/m
1	1224.247	3.20	24.29	52.68	57.30	32.11	74.00	-41.89	peak
2	1644.019	4.08	24.89	52.93	57.88	33.92	68.20	-34.28	peak
3	4316.859	7.48	29.95	52.90	59.09	43.62	74.00	-30.38	peak
4	8764.146	10.25	36.12	54.06	58.93	51.24	68.20	-16.96	peak
5	11400.000	11.55	39.68	53.76	55.33	52.80	74.00	-21.20	peak
6	17100.000	14.34	42.14	52.54	49.87	53.81	68.20	-14.39	peak

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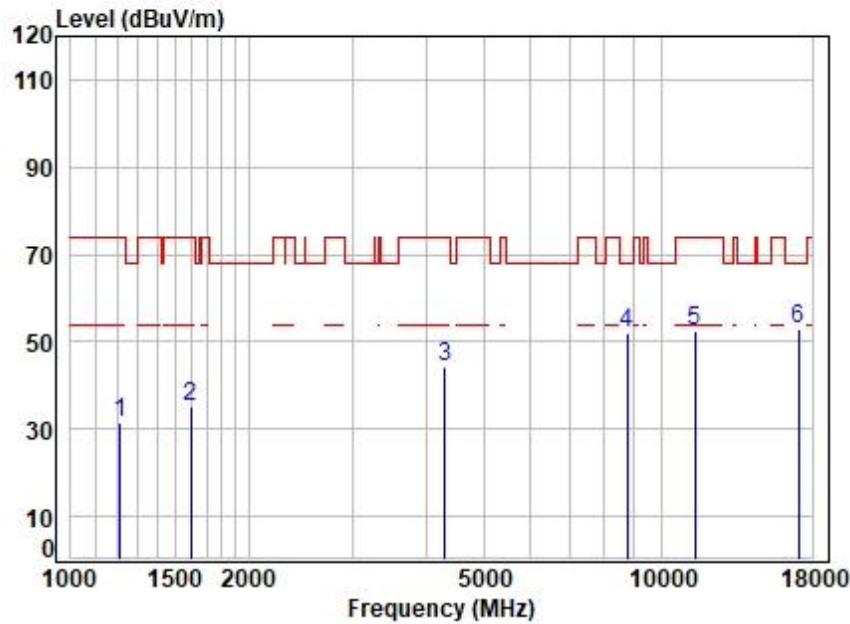
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5700 TX RSE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1210.174	3.17	24.29	52.67	56.72	31.51	74.00	-42.49	peak	
2 1597.181	3.98	24.79	52.91	59.24	35.10	74.00	-38.90	peak	
3 4304.400	7.48	29.94	52.90	59.57	44.09	74.00	-29.91	peak	
4 8738.852	10.19	36.12	54.05	59.95	52.21	68.20	-15.99	peak	
5 11400.000	11.55	39.68	53.76	55.19	52.66	74.00	-21.34	peak	
6 17100.000	14.34	42.14	52.54	49.19	53.13	68.20	-15.07	peak	

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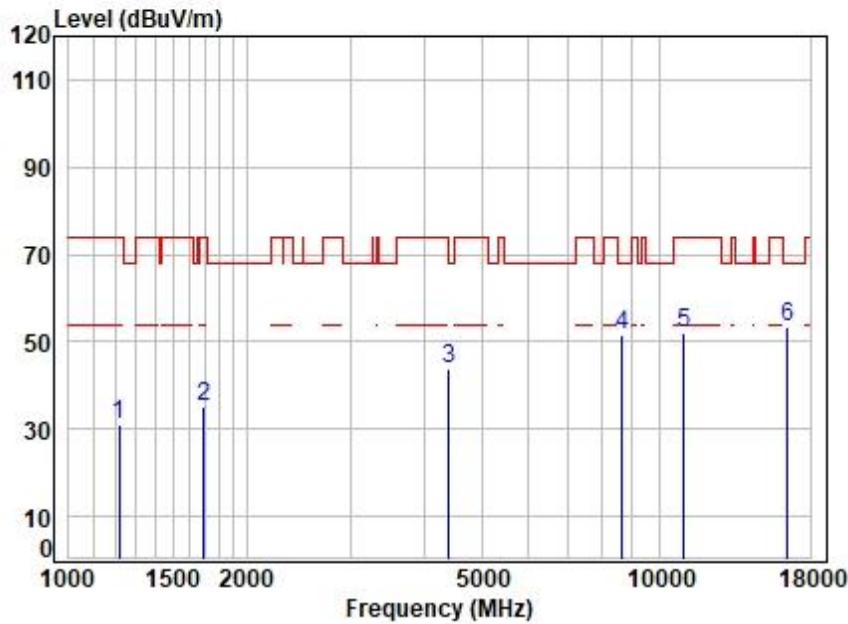
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Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5500 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
MHz									
1	1217.190	3.19	24.29	52.67	56.40	31.21	74.00	-42.79	peak
2	1692.231	4.18	24.99	52.96	58.80	35.01	74.00	-38.99	peak
3	4405.090	7.47	30.07	52.93	59.03	43.64	68.20	-24.56	peak
4	8638.399	9.98	36.13	53.99	59.30	51.42	68.20	-16.78	peak
5	11000.000	11.36	39.60	53.60	54.81	52.17	74.00	-21.83	peak
6	16500.000	14.69	39.93	52.90	51.89	53.61	68.20	-14.59	peak

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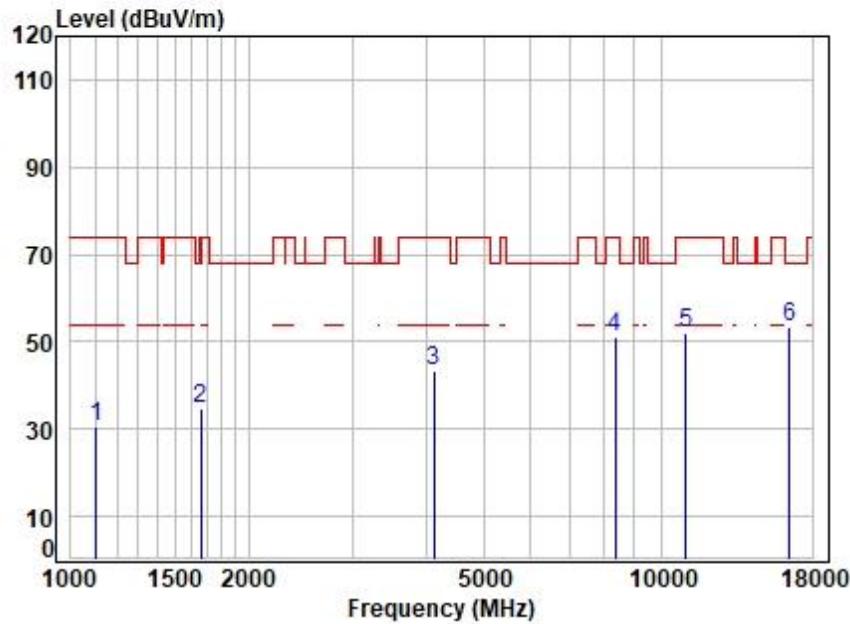
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5500 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Limit	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1103.264	2.91	24.21	52.59	56.08	30.61	74.00	-43.39	peak
2 1663.137	4.12	24.93	52.94	58.50	34.61	74.00	-39.39	peak
3 4121.768	7.48	29.68	52.84	59.20	43.52	74.00	-30.48	peak
4 8368.069	9.61	36.16	53.83	59.34	51.28	74.00	-22.72	peak
5 11000.000	11.36	39.60	53.60	54.46	51.82	74.00	-22.18	peak
6 16500.000	14.69	39.93	52.90	51.46	53.18	68.20	-15.02	peak

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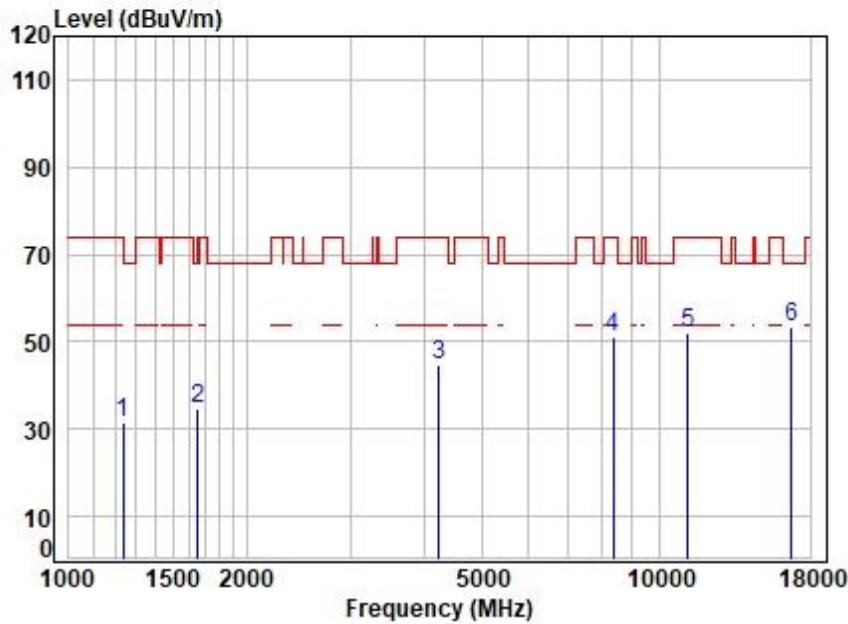
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5580 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
MHz									
1 1234.909	3.23	24.28	52.68	56.78	31.61	74.00	-42.39	peak	
2 1653.550	4.10	24.91	52.94	58.56	34.63	68.20	-33.57	peak	
3 4230.396	7.48	29.83	52.88	60.23	44.66	74.00	-29.34	peak	
4 8368.069	9.61	36.16	53.83	59.27	51.21	74.00	-22.79	peak	
5 11160.000	11.44	39.63	53.67	54.82	52.22	74.00	-21.78	peak	
6 16740.000	14.50	40.74	52.75	50.68	53.17	68.20	-15.03	peak	

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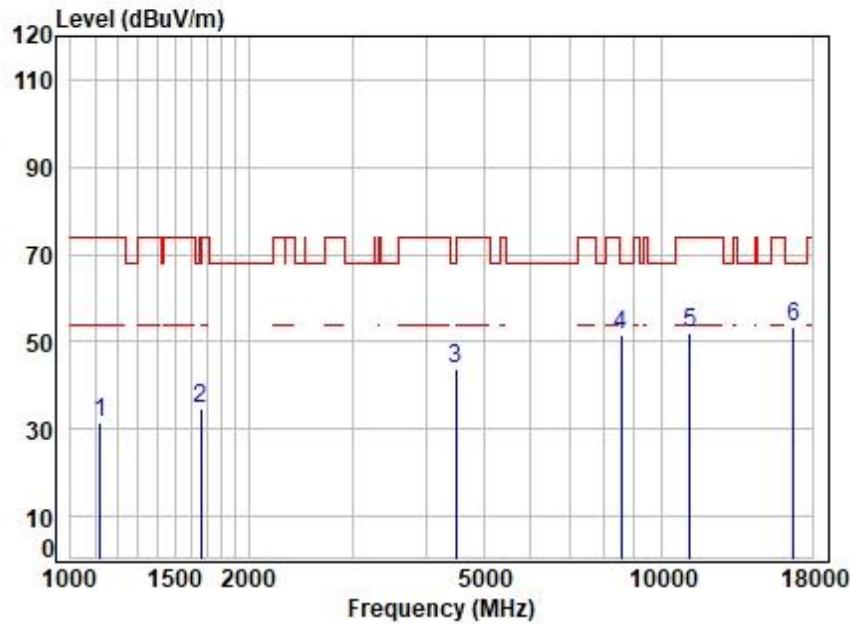
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5580 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1122.563	2.96	24.23	52.60	56.94	31.53	74.00	-42.47	peak	
2 1658.337	4.11	24.92	52.94	58.46	34.55	68.20	-33.65	peak	
3 4482.150	7.47	30.18	52.95	58.99	43.69	68.20	-24.51	peak	
4 8539.102	9.76	36.14	53.93	59.55	51.52	68.20	-16.68	peak	
5 11160.000	11.44	39.63	53.67	54.66	52.06	74.00	-21.94	peak	
6 16740.000	14.50	40.74	52.75	51.10	53.59	68.20	-14.61	peak	

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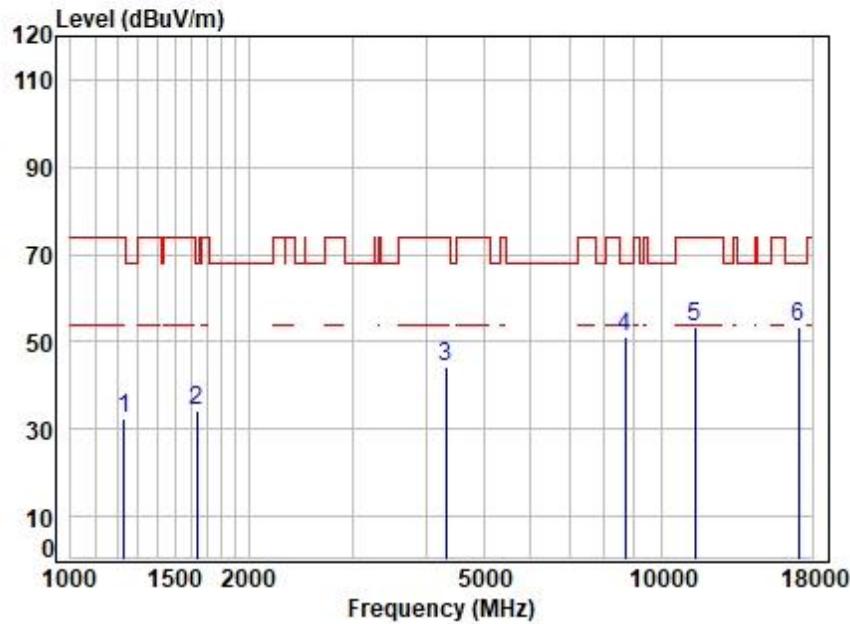
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Test Mode: 16; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5700 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Limit	Over	Remark
				Level				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1231.345	3.22	24.28	52.68	57.65	32.47	74.00	-41.53	peak
2 1634.543	4.06	24.87	52.93	58.01	34.01	68.20	-34.19	peak
3 4316.859	7.48	29.95	52.90	59.69	44.22	74.00	-29.78	peak
4 8688.480	10.08	36.13	54.02	58.69	50.88	68.20	-17.32	peak
5 11400.000	11.55	39.68	53.76	55.96	53.43	74.00	-20.57	peak
6 17100.000	14.34	42.14	52.54	49.32	53.26	68.20	-14.94	peak

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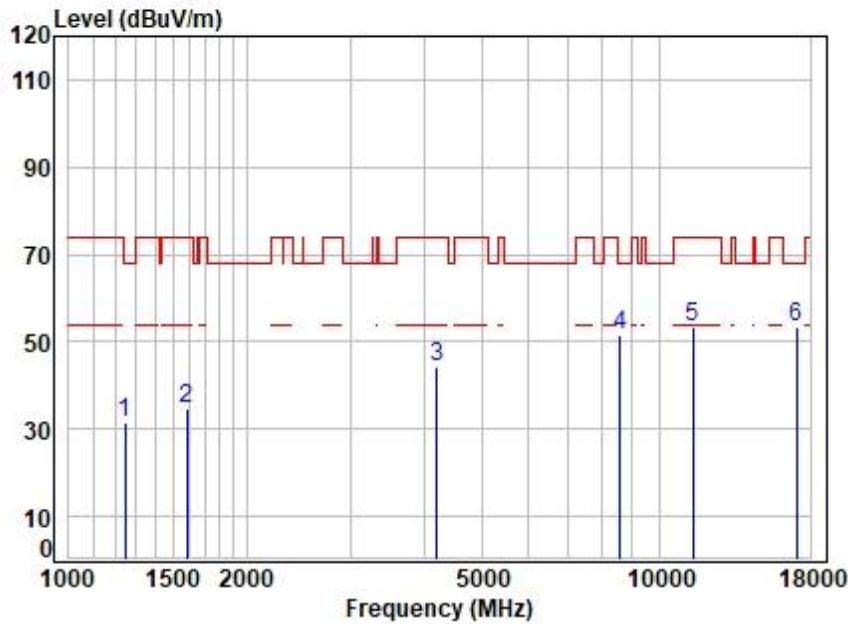
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Test Mode: 16; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5700 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
MHz									
1	1245.663	3.25	24.28	52.69	56.59	31.43	68.20	-36.77	peak
2	1583.392	3.95	24.75	52.90	58.96	34.76	74.00	-39.24	peak
3	4206.011	7.48	29.80	52.87	59.62	44.03	74.00	-29.97	peak
4	8588.607	9.87	36.14	53.96	59.62	51.67	68.20	-16.53	peak
5	11400.000	11.55	39.68	53.76	56.02	53.49	74.00	-20.51	peak
6	17100.000	14.34	42.14	52.54	49.33	53.27	68.20	-14.93	peak

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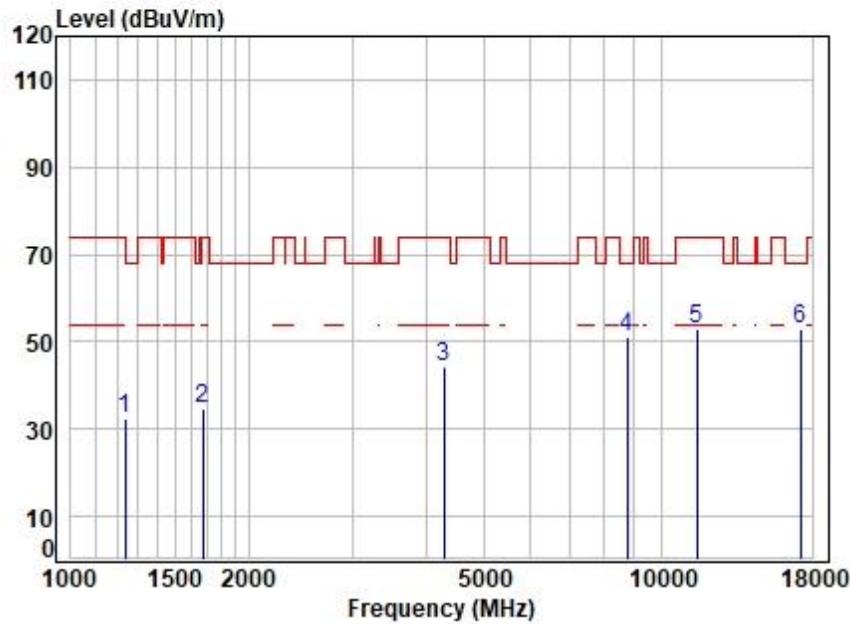
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5745 TX RSE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Limit	Over	Remark
				Level				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1234.909	3.23	24.28	52.68	57.64	32.47	74.00	-41.53	peak
2 1672.779	4.14	24.95	52.95	58.43	34.57	74.00	-39.43	peak
3 4279.589	7.48	29.90	52.89	59.77	44.26	74.00	-29.74	peak
4 8764.146	10.25	36.12	54.06	58.71	51.02	68.20	-17.18	peak
5 11490.000	11.60	39.70	53.80	55.38	52.88	74.00	-21.12	peak
6 17235.000	14.39	42.87	52.46	48.09	52.89	68.20	-15.31	peak

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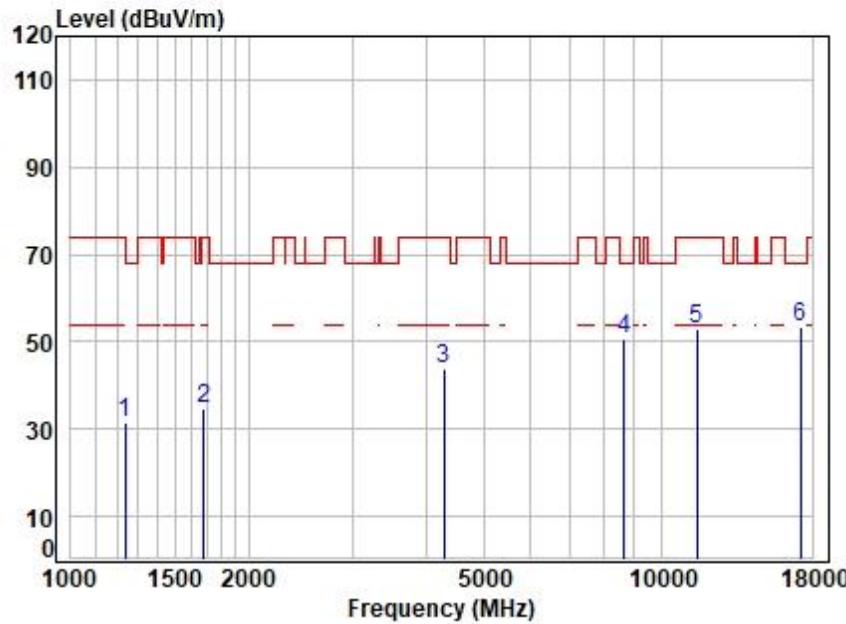
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5745 TX RSE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
MHz									
1	1234.909	3.23	24.28	52.68	56.61	31.44	74.00	-42.56	peak
2	1682.477	4.16	24.97	52.95	58.68	34.86	74.00	-39.14	peak
3	4291.977	7.48	29.92	52.89	59.20	43.71	74.00	-30.29	peak
4	8663.404	10.03	36.13	54.01	58.72	50.87	68.20	-17.33	peak
5	11490.000	11.60	39.70	53.80	55.57	53.07	74.00	-20.93	peak
6	17235.000	14.39	42.87	52.46	48.72	53.52	68.20	-14.68	peak

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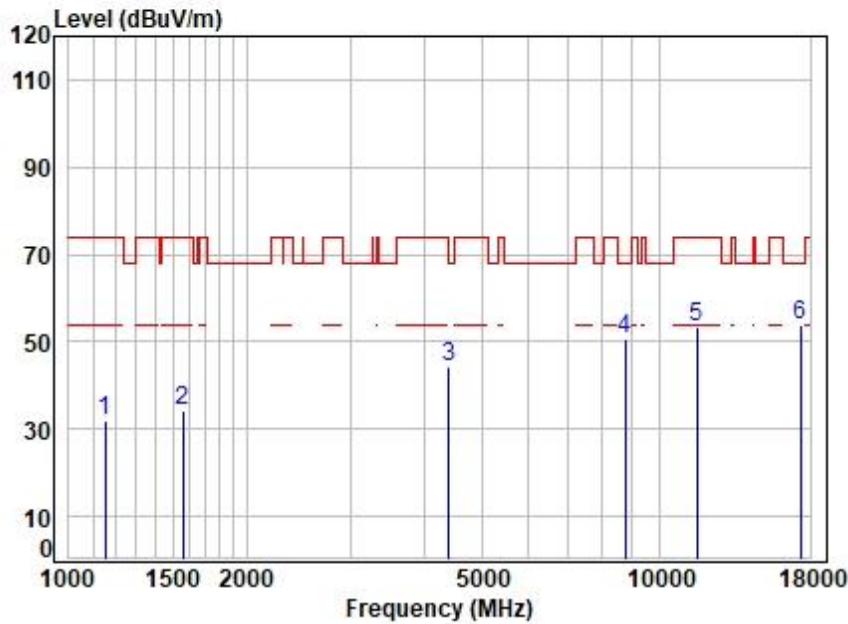
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5785 TX RSE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
							dB	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1152.148	3.03	24.26	52.62	57.28	31.95	74.00	-42.05	peak
2 1560.673	3.91	24.69	52.89	58.63	34.34	74.00	-39.66	peak
3 4405.090	7.47	30.07	52.93	59.84	44.45	68.20	-23.75	peak
4 8764.146	10.25	36.12	54.06	58.54	50.85	68.20	-17.35	peak
5 11570.000	11.60	39.72	53.83	55.76	53.25	74.00	-20.75	peak
6 17355.000	14.44	43.52	52.38	48.05	53.63	68.20	-14.57	peak

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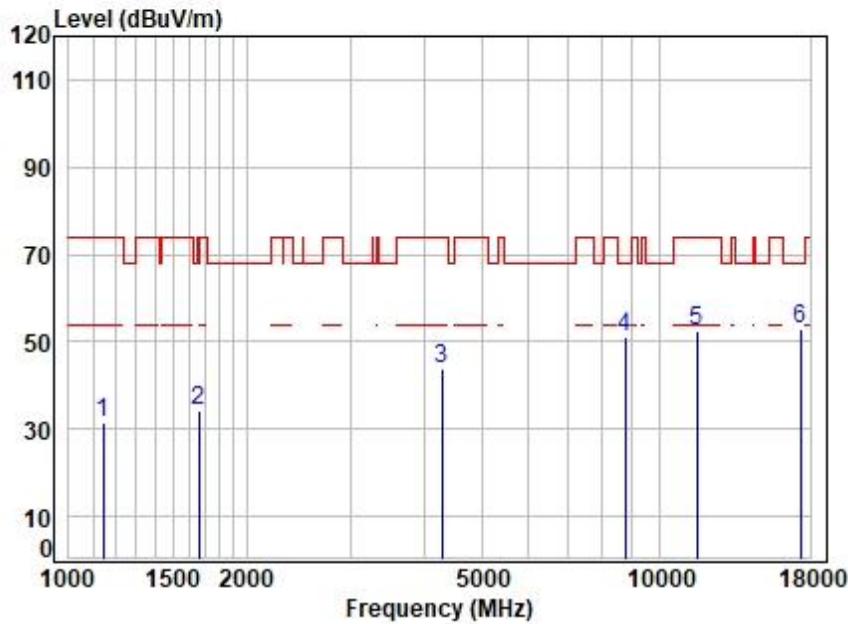
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Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5785 TX RSE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
MHz									
1 1142.201	3.01	24.25	52.62	56.63	31.27	74.00	-42.73	peak	
2 1663.137	4.12	24.93	52.94	58.07	34.18	74.00	-39.82	peak	
3 4279.589	7.48	29.90	52.89	59.44	43.93	74.00	-30.07	peak	
4 8738.852	10.19	36.12	54.05	58.87	51.13	68.20	-17.07	peak	
5 11570.000	11.60	39.72	53.83	54.84	52.33	74.00	-21.67	peak	
6 17355.000	14.44	43.52	52.38	47.50	53.08	68.20	-15.12	peak	

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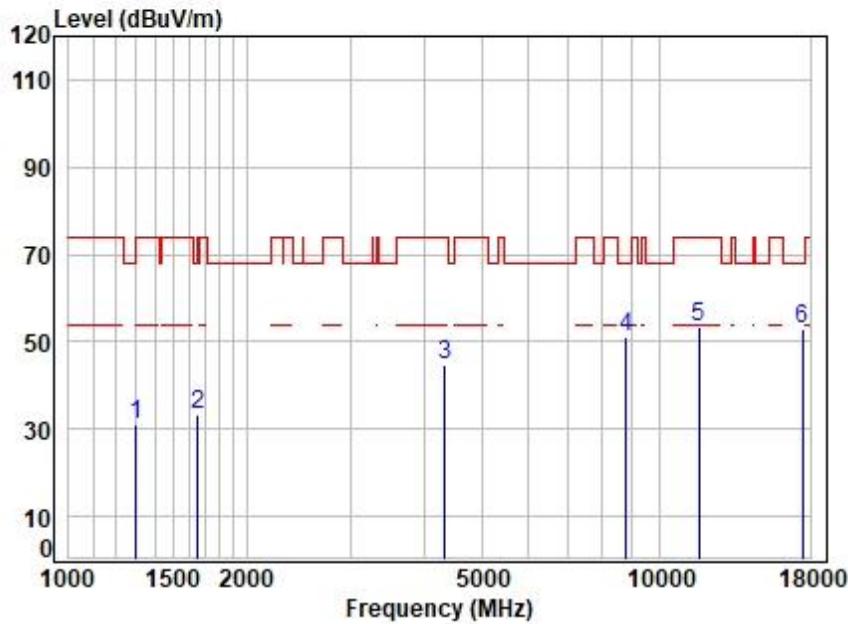
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5825 TX RSE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Limit	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1300.858	3.37	24.25	52.73	56.35	31.24	74.00	-42.76	peak
2 1653.550	4.10	24.91	52.94	57.44	33.51	68.20	-34.69	peak
3 4329.354	7.48	29.97	52.91	60.39	44.93	74.00	-29.07	peak
4 8789.516	10.30	36.12	54.08	58.96	51.30	68.20	-16.90	peak
5 11650.000	11.60	39.73	53.86	56.09	53.56	74.00	-20.44	peak
6 17475.000	14.48	44.16	52.31	46.78	53.11	68.20	-15.09	peak

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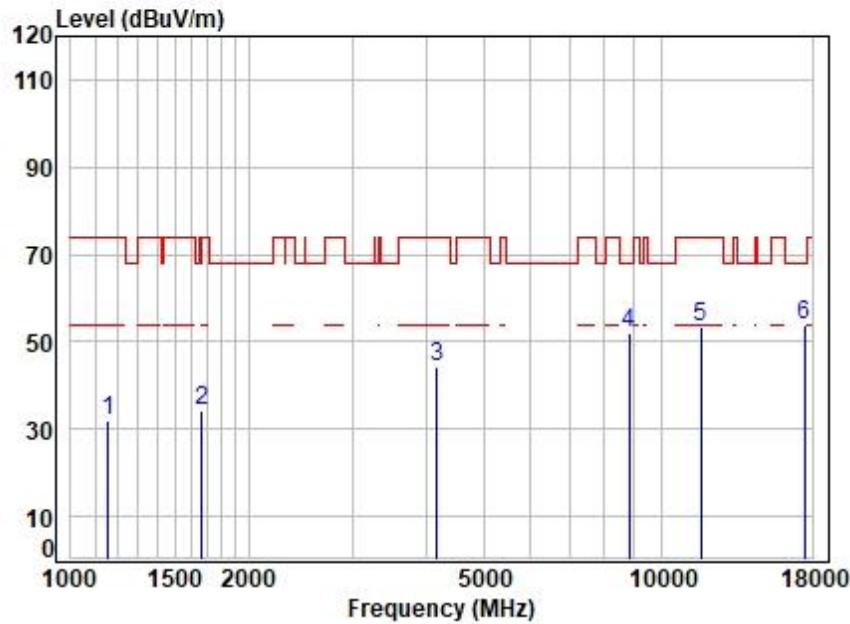
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Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5825 TX RSE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Limit	Over	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1155.483	3.04	24.26	52.63	57.35	32.02	74.00	-41.98	peak
2 1667.951	4.13	24.94	52.94	58.10	34.23	74.00	-39.77	peak
3 4169.698	7.48	29.75	52.86	59.67	44.04	74.00	-29.96	peak
4 8814.957	10.36	36.12	54.09	59.57	51.96	68.20	-16.24	peak
5 11650.000	11.60	39.73	53.86	56.12	53.59	74.00	-20.41	peak
6 17475.000	14.48	44.16	52.31	47.46	53.79	68.20	-14.41	peak

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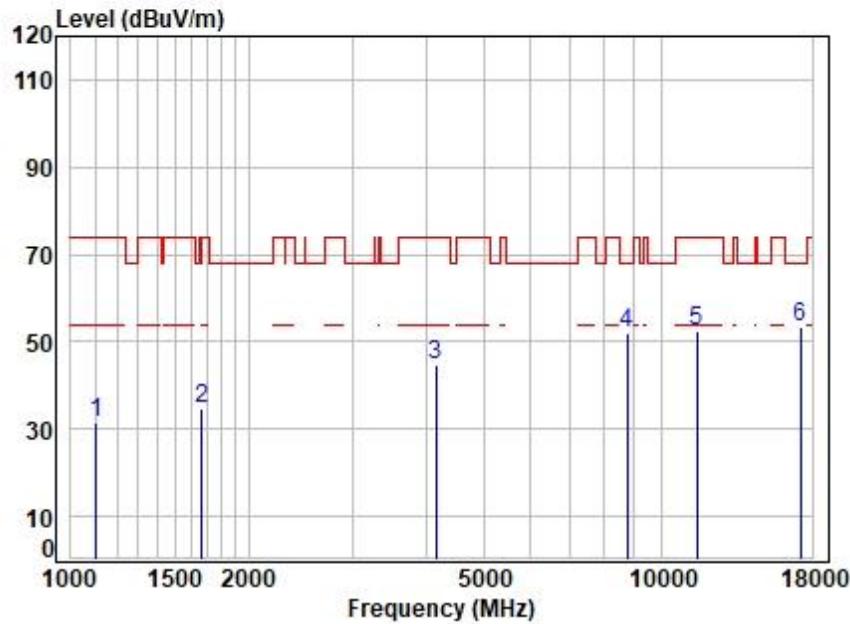
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Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5745 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1106.457	2.92	24.21	52.59	57.14	31.68	74.00	-42.32	peak	
2 1667.951	4.13	24.94	52.94	58.53	34.66	74.00	-39.34	peak	
3 4157.664	7.48	29.73	52.85	60.37	44.73	74.00	-29.27	peak	
4 8764.146	10.25	36.12	54.06	59.74	52.05	68.20	-16.15	peak	
5 11490.000	11.60	39.70	53.80	55.18	52.68	74.00	-21.32	peak	
6 17235.000	14.39	42.87	52.46	48.77	53.57	68.20	-14.63	peak	

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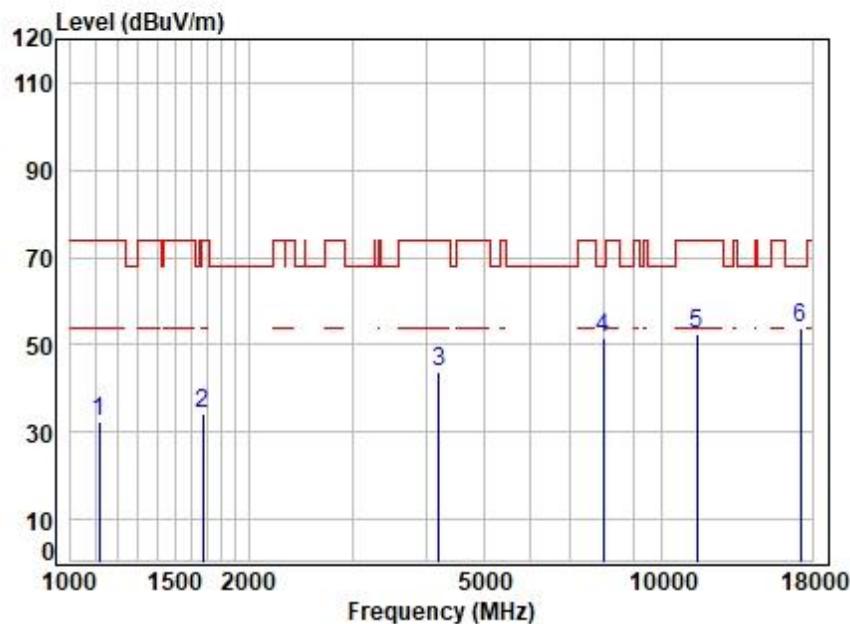
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Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5745 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Limit	Over	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1119.323	2.95	24.22	52.60	57.89	32.46	74.00	-41.54	peak
2 1672.779	4.14	24.95	52.95	58.27	34.41	74.00	-39.59	peak
3 4206.011	7.48	29.80	52.87	59.26	43.67	74.00	-30.33	peak
4 7989.893	9.41	36.20	53.60	59.38	51.39	68.20	-16.81	peak
5 11490.000	11.60	39.70	53.80	54.90	52.40	74.00	-21.60	peak
6 17235.000	14.39	42.87	52.46	49.06	53.86	68.20	-14.34	peak

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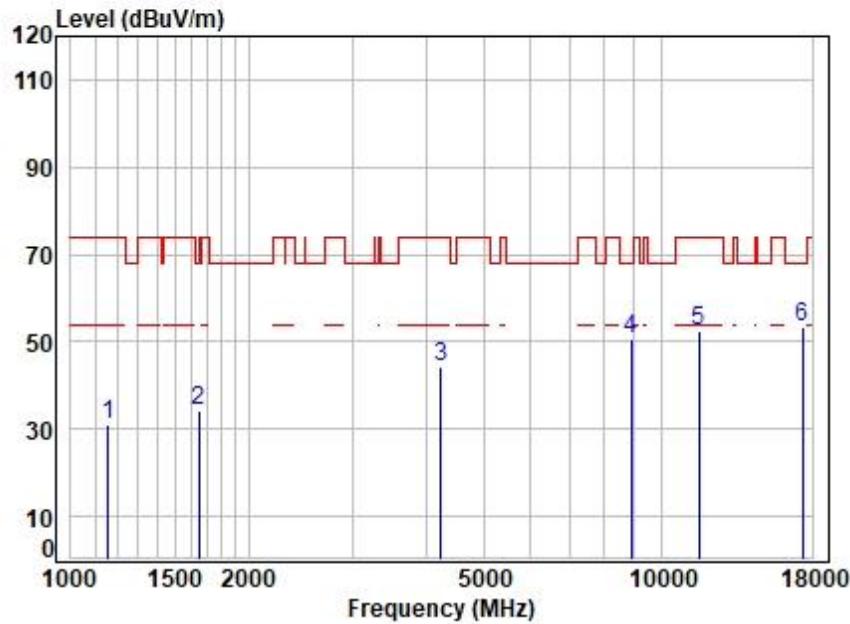
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5785 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
								dB	dB/m
1	1155.483	3.04	24.26	52.63	56.53	31.20	74.00	-42.80	peak
2	1648.778	4.09	24.90	52.93	58.17	34.23	68.20	-33.97	peak
3	4230.396	7.48	29.83	52.88	59.63	44.06	74.00	-29.94	peak
4	8891.725	10.52	36.11	54.14	58.35	50.84	68.20	-17.36	peak
5	11570.000	11.60	39.72	53.83	55.17	52.66	74.00	-21.34	peak
6	17355.000	14.44	43.52	52.38	47.83	53.41	68.20	-14.79	peak

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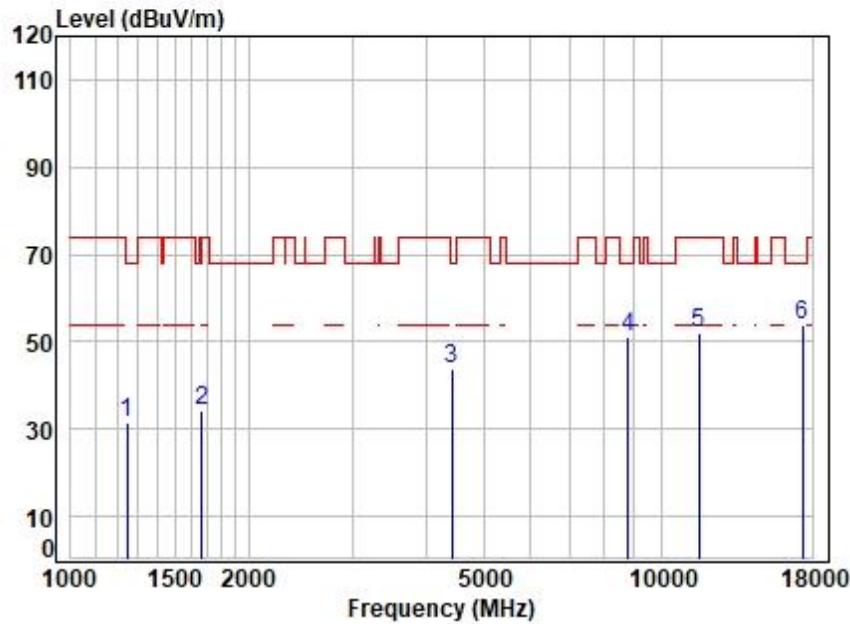
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Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5785 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1245.663	3.25	24.28	52.69	56.46	31.30	68.20	-36.90	peak	
2 1667.951	4.13	24.94	52.94	58.31	34.44	74.00	-39.56	peak	
3 4417.841	7.47	30.09	52.93	59.35	43.98	68.20	-24.22	peak	
4 8789.516	10.30	36.12	54.08	58.65	50.99	68.20	-17.21	peak	
5 11570.000	11.60	39.72	53.83	54.72	52.21	74.00	-21.79	peak	
6 17355.000	14.44	43.52	52.38	48.06	53.64	68.20	-14.56	peak	

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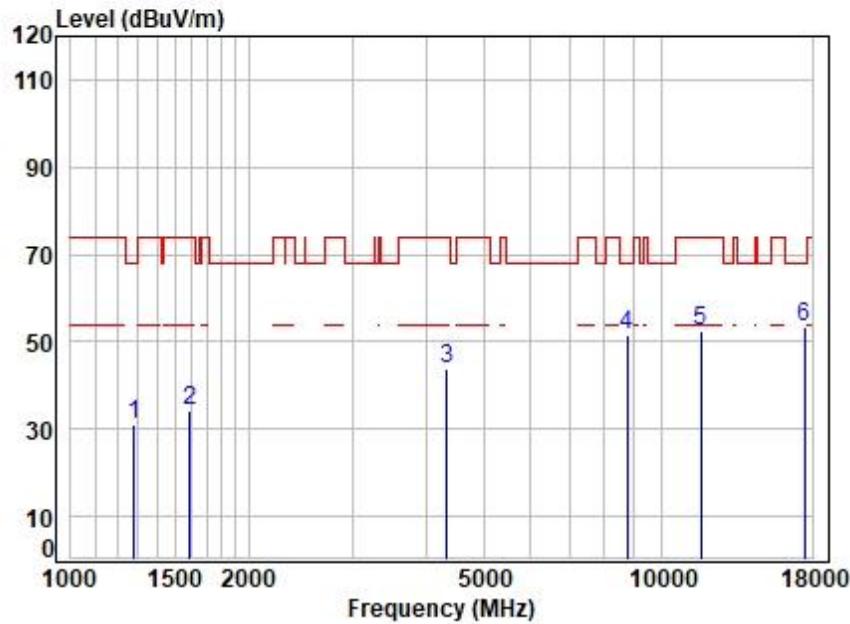
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00476AT  
 Mode : 5825 TX RSE  
 Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
								dB	dB/m
1	1278.492	3.32	24.26	52.71	56.28	31.15	68.20	-37.05	peak
2	1592.571	3.97	24.78	52.90	58.22	34.07	74.00	-39.93	peak
3	4329.354	7.48	29.97	52.91	59.38	43.92	74.00	-30.08	peak
4	8738.852	10.19	36.12	54.05	59.46	51.72	68.20	-16.48	peak
5	11650.000	11.60	39.73	53.86	54.79	52.26	74.00	-21.74	peak
6	17475.000	14.48	44.16	52.31	47.03	53.36	68.20	-14.84	peak

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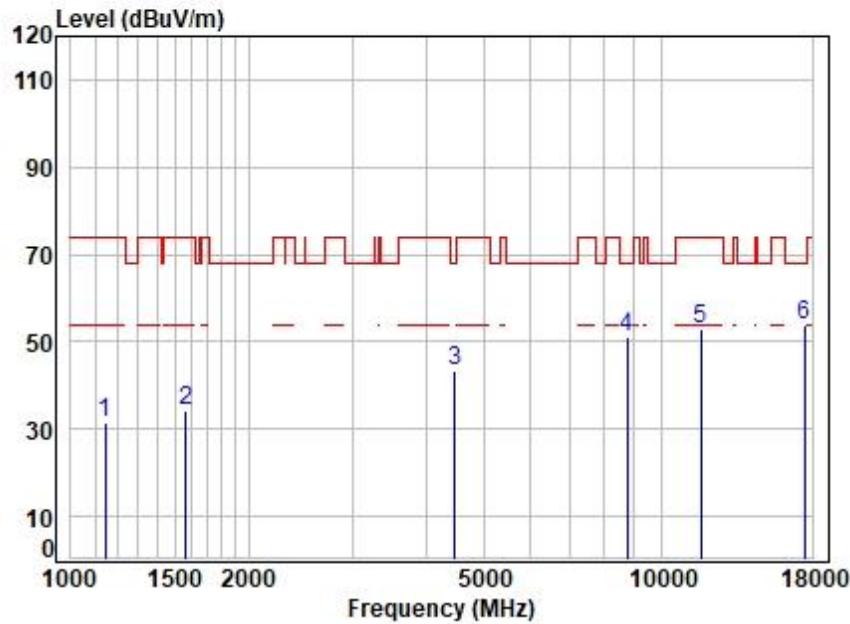
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Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5825 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Over Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1145.507	3.02	24.25	52.62	56.73	31.38	74.00	-42.62	peak
2 1569.721	3.92	24.71	52.89	58.40	34.14	74.00	-39.86	peak
3 4469.214	7.47	30.16	52.95	58.67	43.35	68.20	-24.85	peak
4 8764.146	10.25	36.12	54.06	58.85	51.16	68.20	-17.04	peak
5 11650.000	11.60	39.73	53.86	55.52	52.99	74.00	-21.01	peak
6 17475.000	14.48	44.16	52.31	47.39	53.72	68.20	-14.48	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 &amp; Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

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

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

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

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

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

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

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

Operating Environment:

Temperature: 21.4 °C

Humidity: 52.3 % RH

Atmospheric Pressure: 1020 mbar



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### 7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	10	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	11	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	12	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	14	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	15	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously

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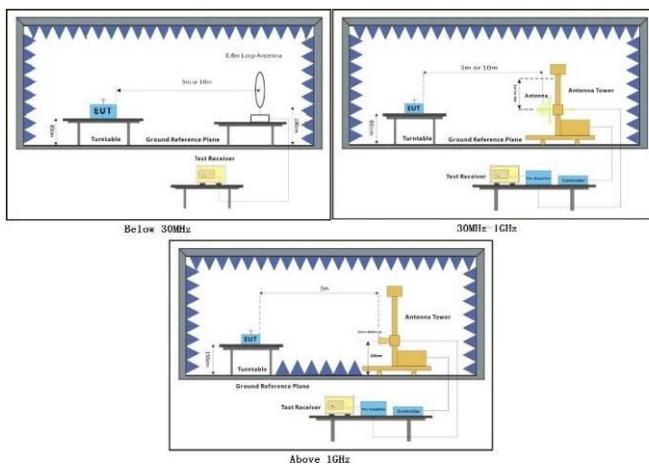
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		transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

### 7.9.3 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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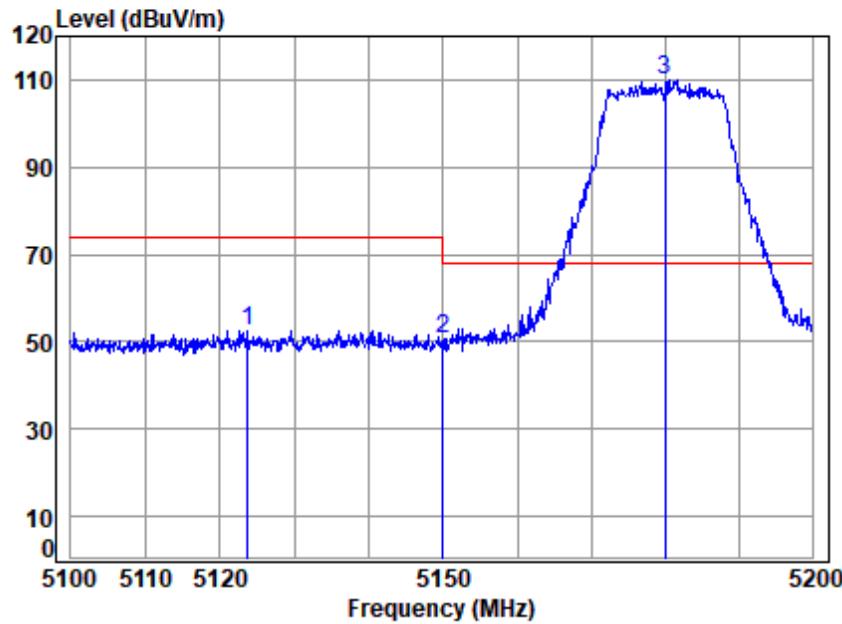
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5180 Band edge  
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	5123.724	8.29	31.71	31.78	44.38	52.60	74.00	-21.40	peak
2	5149.980	8.29	31.77	31.82	42.30	50.54	74.00	-23.46	peak
3	5180.000	8.29	31.85	31.86	101.70	109.98	68.20	41.78	peak

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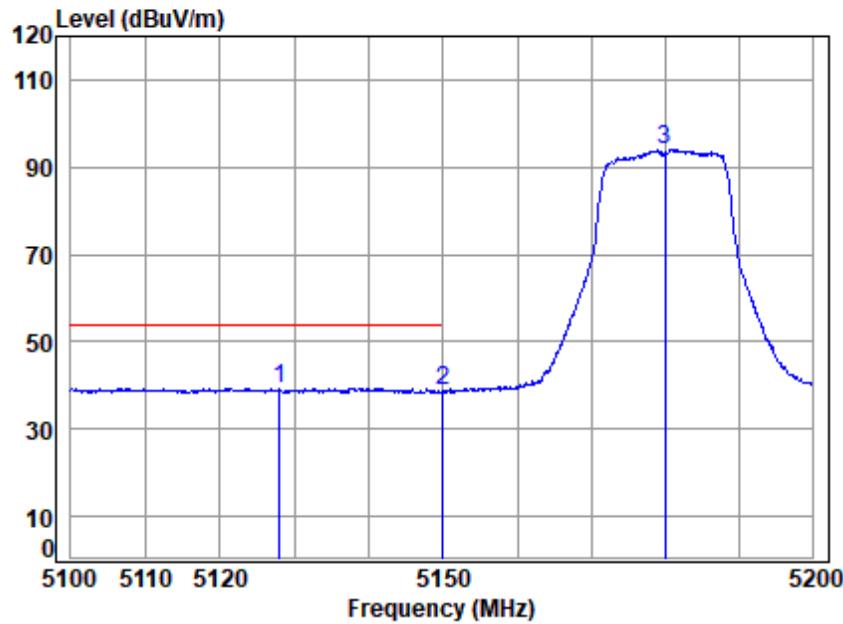
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Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5180 Band edge  
Note : 5G WIFI 11A

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Line dBuV/m	Over Limit dB	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5127.904	8.29	31.72	31.79	31.17	39.39	54.00	-14.61	Average	
2	5149.980	8.29	31.77	31.82	30.42	38.66	54.00	-15.34	Average	
3	5180.000	8.29	31.85	31.86	85.90	94.18	-----	-----	Average	

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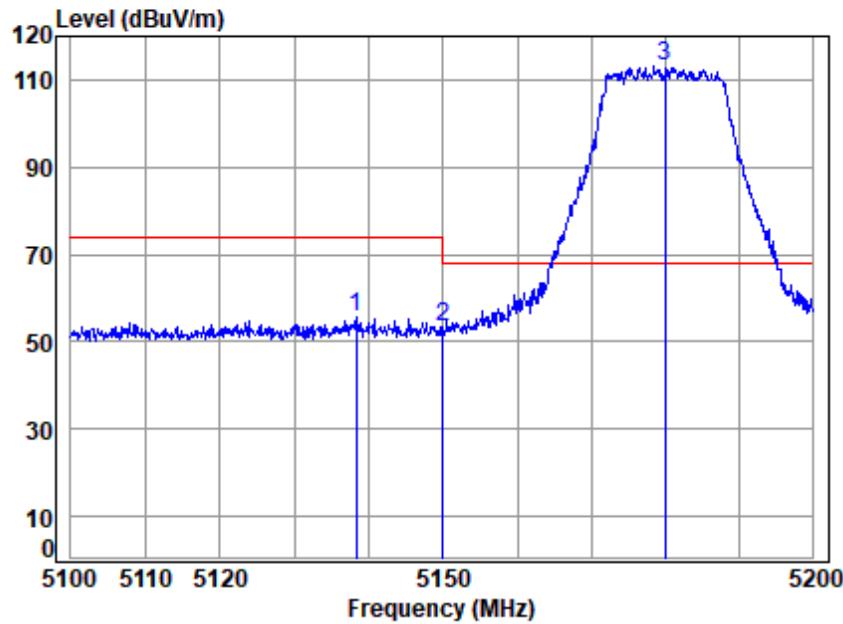
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Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5180 Band edge  
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5138.271	8.29	31.74	31.80	47.65	55.88	74.00	-18.12	Peak
2	5149.980	8.29	31.77	31.82	44.97	53.21	74.00	-20.79	Peak
3	5180.000	8.29	31.85	31.86	104.74	113.02	68.20	44.82	Peak

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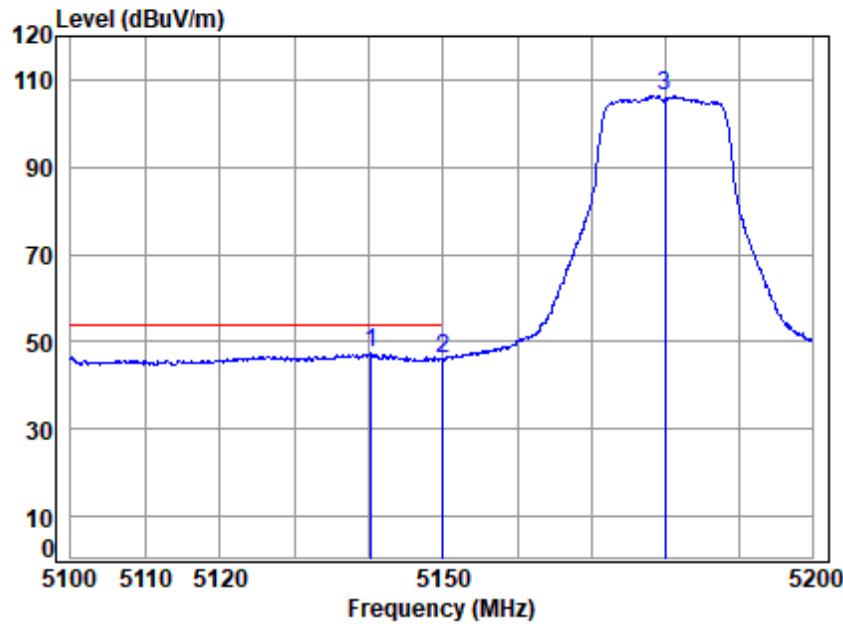
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Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5180 Band edge  
Note : 5G WIFI 11A

		Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5140.266	8.29	31.75	31.80	39.06	47.30	54.00	-6.70	Average
2	5149.980	8.29	31.77	31.82	37.87	46.11	54.00	-7.89	Average
3	5180.000	8.29	31.85	31.86	98.01	106.29	-----	-----	Average

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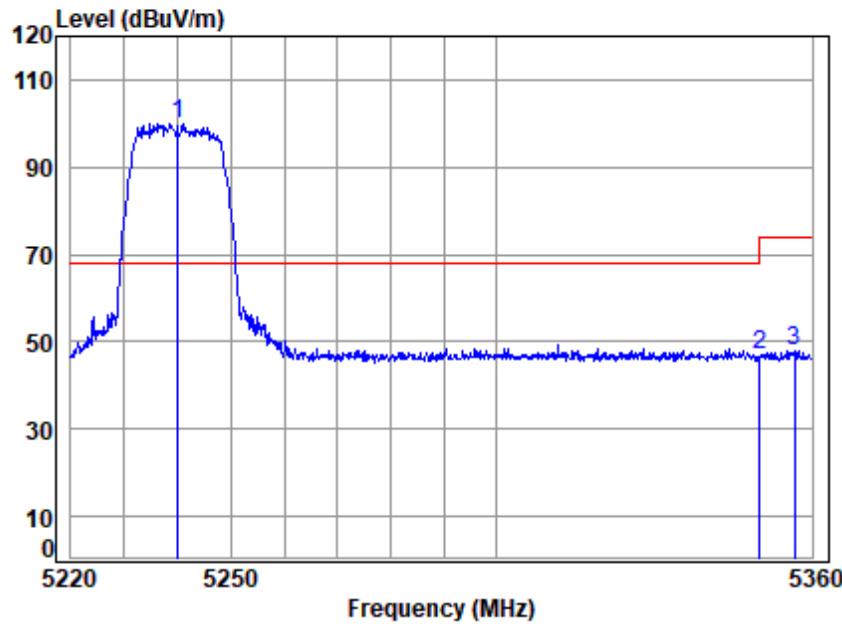
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Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5240 Band edge  
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5240.000	8.29	31.99	31.94	91.56	99.90	68.20	31.70	peak
2	5350.020	8.28	32.25	32.10	38.72	47.15	74.00	-26.85	peak
3	5356.738	8.28	32.27	32.11	39.57	48.01	74.00	-25.99	peak

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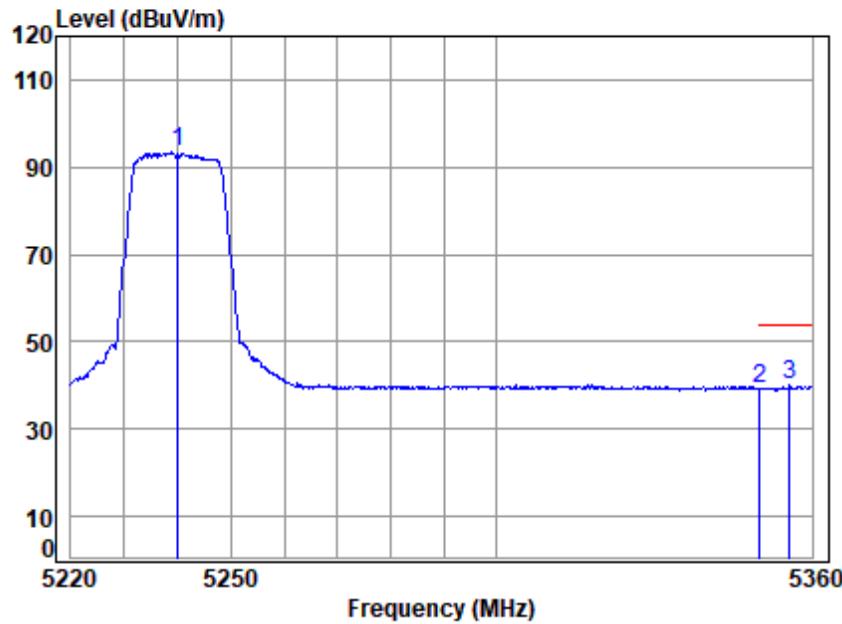
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Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5240 Band edge  
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5240.000	8.29	31.99	31.94	85.02	93.36	-----	-----	Average
2	5350.020	8.28	32.25	32.10	30.95	39.38	54.00	-14.62	Average
3	5355.746	8.28	32.27	32.10	31.62	40.07	54.00	-13.93	Average

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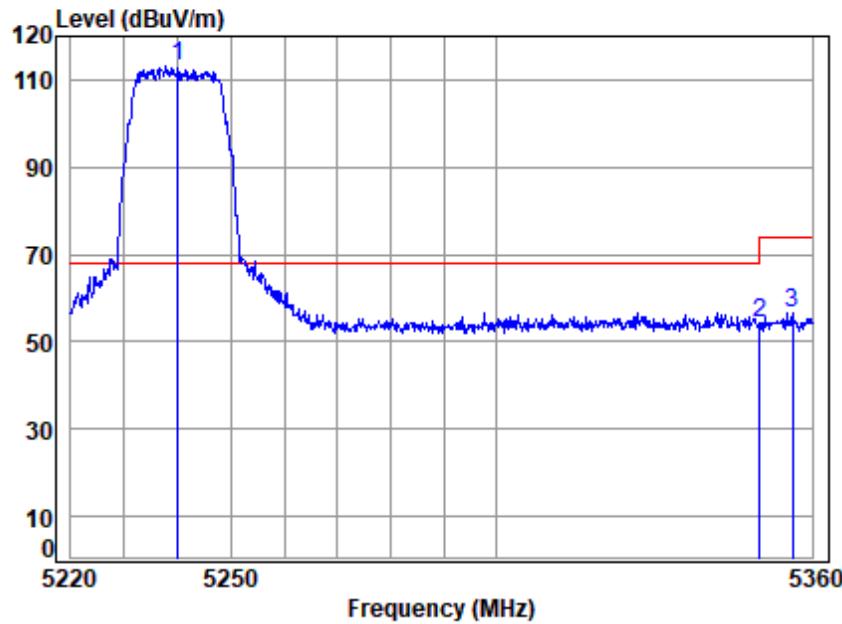
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Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5240 Band edge  
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5240.000	8.29	31.99	31.94	104.68	113.02	68.20	44.82	Peak
2	5350.020	8.28	32.25	32.10	46.01	54.44	74.00	-19.56	Peak
3	5356.171	8.28	32.27	32.11	48.07	56.51	74.00	-17.49	Peak

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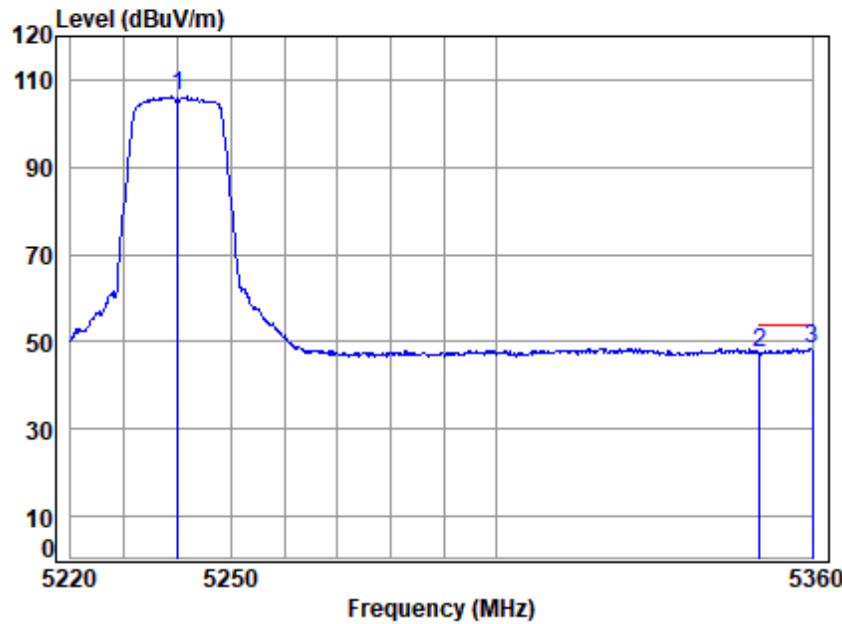
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Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5240 Band edge  
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5240.000	8.29	31.99	31.94	97.95	106.29	-----	-----	Average
2	5350.020	8.28	32.25	32.10	39.12	47.55	54.00	-6.45	Average
3	5360.000	8.28	32.28	32.11	40.11	48.56	54.00	-5.44	Average

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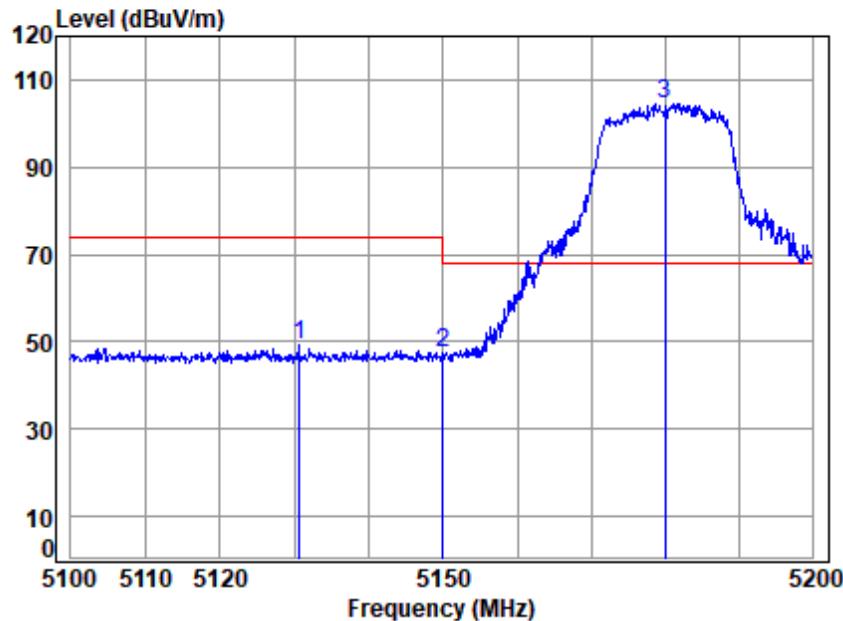
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Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5180 Band edge  
Note : 5G WIFI 11N20

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Line dBuV/m	Over Limit dB	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5130.593	8.29	31.72	31.79	41.03	49.25	74.00	-24.75	peak	
2	5149.980	8.29	31.77	31.82	39.34	47.58	74.00	-26.42	peak	
3	5180.000	8.29	31.85	31.86	96.39	104.67	68.20	36.47	peak	

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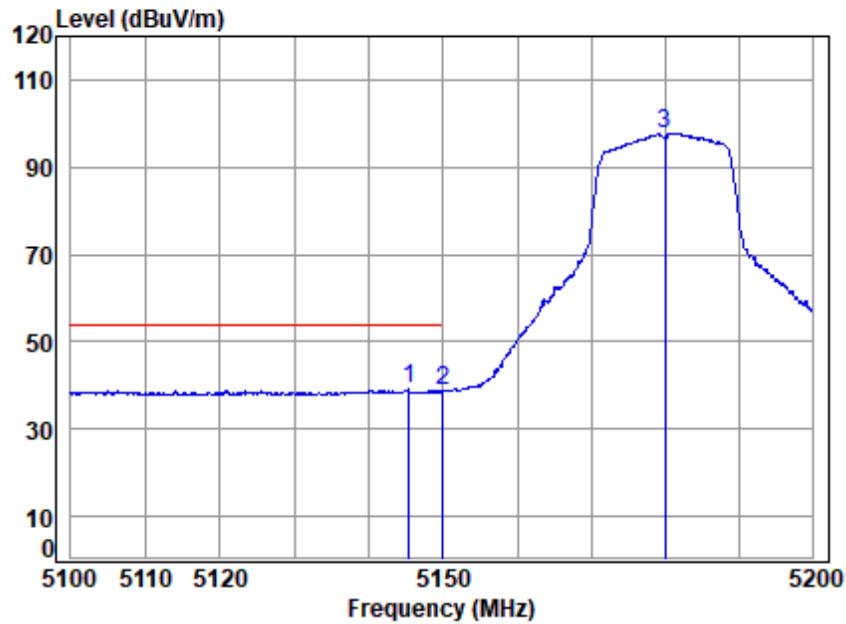
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5180 Band edge  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	5145.459	8.29	31.76	31.81	30.81	39.05	54.00	-14.95	Average
2	5149.980	8.29	31.77	31.82	30.52	38.76	54.00	-15.24	Average
3	5180.000	8.29	31.85	31.86	89.58	97.86	-----	-----	Average

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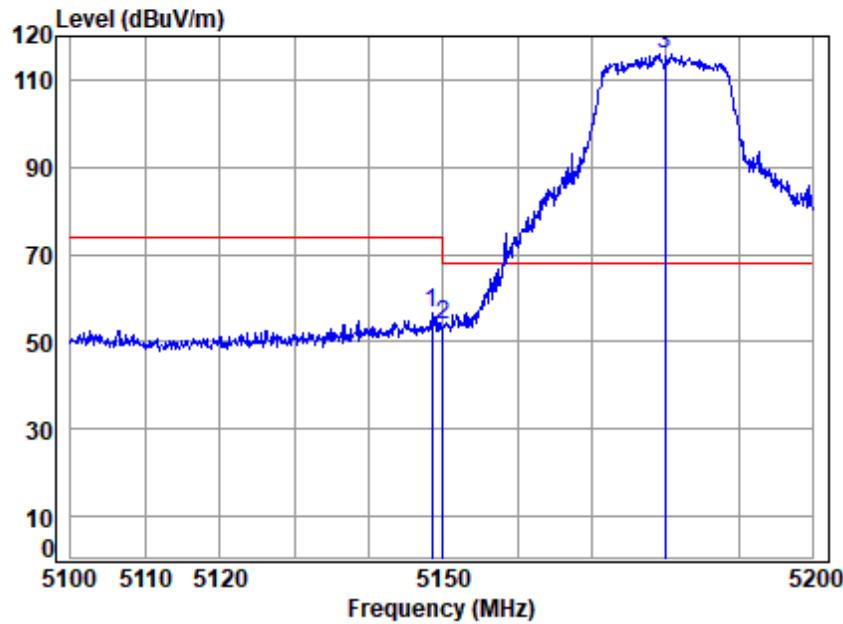
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Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5180 Band edge  
Note : 5G WIFI 11N20

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.458	8.29	31.77	31.81	48.38	56.63	74.00	-17.37	Peak
2	5149.980	8.29	31.77	31.82	45.71	53.95	74.00	-20.05	Peak
3	5180.000	8.29	31.85	31.86	107.48	115.76	68.20	47.56	Peak

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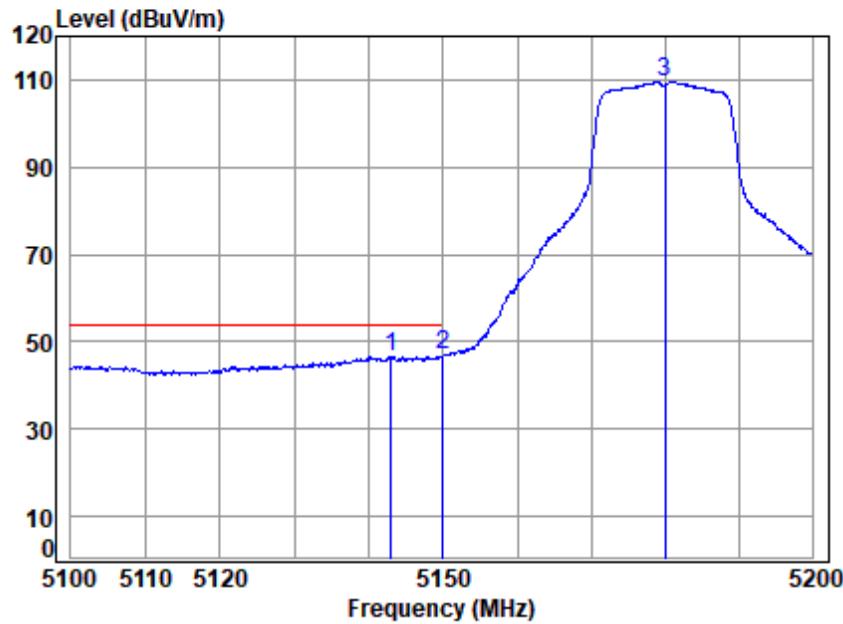
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Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5180 Band edge  
Note : 5G WIFI 11N20

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Line dBuV/m	Over Limit dB	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5142.962	8.29	31.75	31.81	38.46	46.69	54.00	-7.31	Average	
2	5149.980	8.29	31.77	31.82	38.74	46.98	54.00	-7.02	Average	
3	5180.000	8.29	31.85	31.86	101.36	109.64	-----	-----	-----	Average

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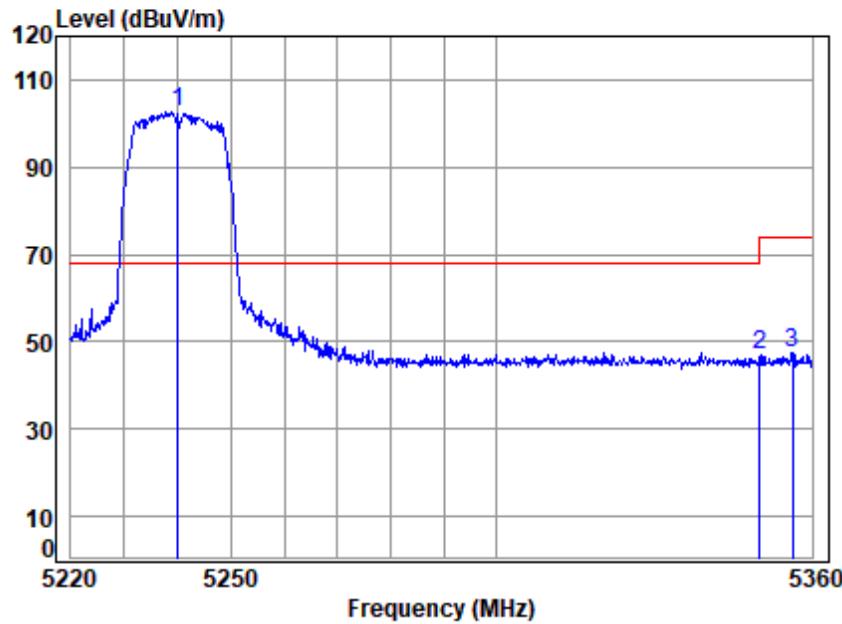
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Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5240 Band edge  
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5240.000	8.29	31.99	31.94	94.45	102.79	68.20	34.59	peak
2	5350.020	8.28	32.25	32.10	38.49	46.92	74.00	-27.08	peak
3	5356.171	8.28	32.27	32.11	38.93	47.37	74.00	-26.63	peak

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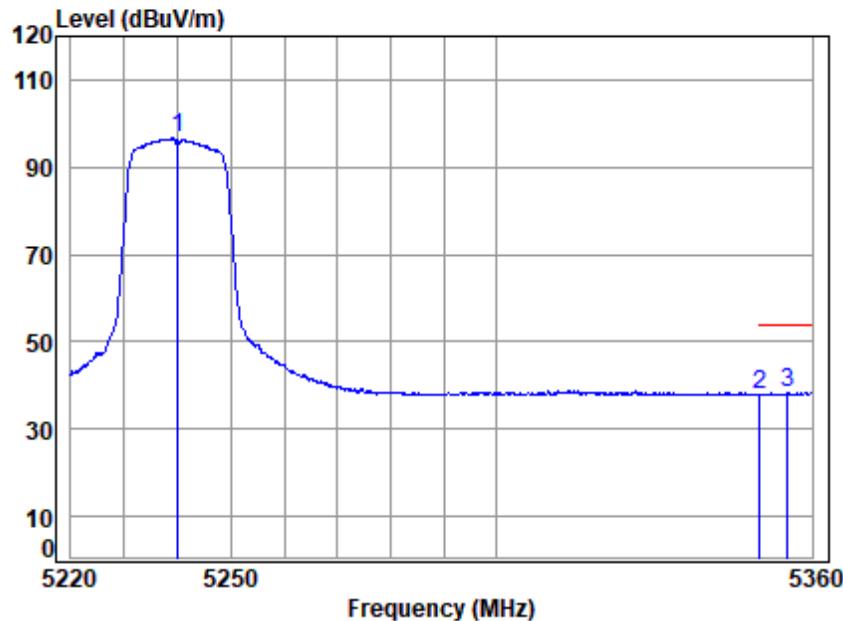
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Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5240 Band edge  
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5240.000	8.29	31.99	31.94	88.36	96.70	-----	-----	Average
2	5350.020	8.28	32.25	32.10	29.67	38.10	54.00	-15.90	Average
3	5355.321	8.28	32.26	32.10	30.01	38.45	54.00	-15.55	Average



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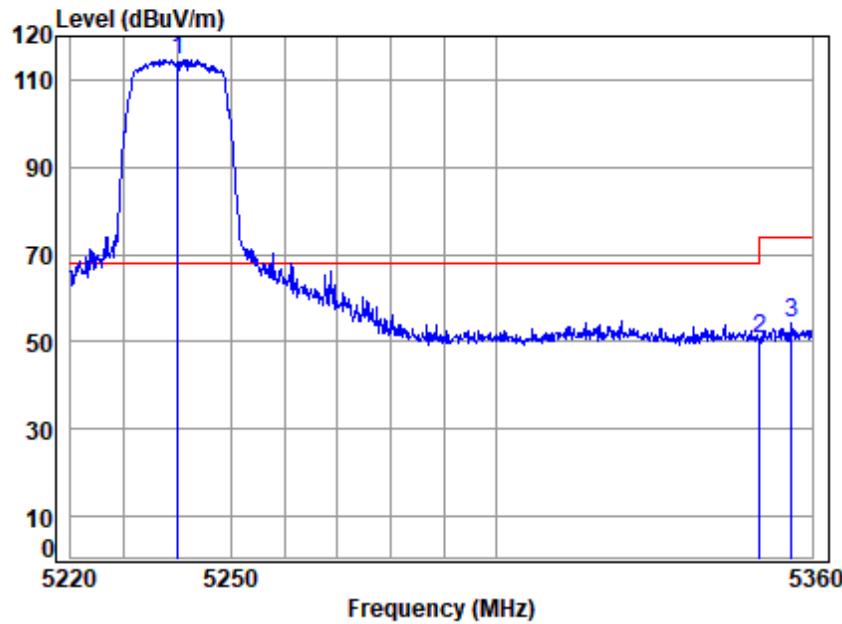
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Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5240 Band edge  
Note : 5G WIFI 11N20

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	8.29	31.99	31.94	106.30	114.64	68.20	46.44	Peak
2	5350.020	8.28	32.25	32.10	42.40	50.83	74.00	-23.17	Peak
3	5356.029	8.28	32.27	32.11	45.95	54.39	74.00	-19.61	Peak

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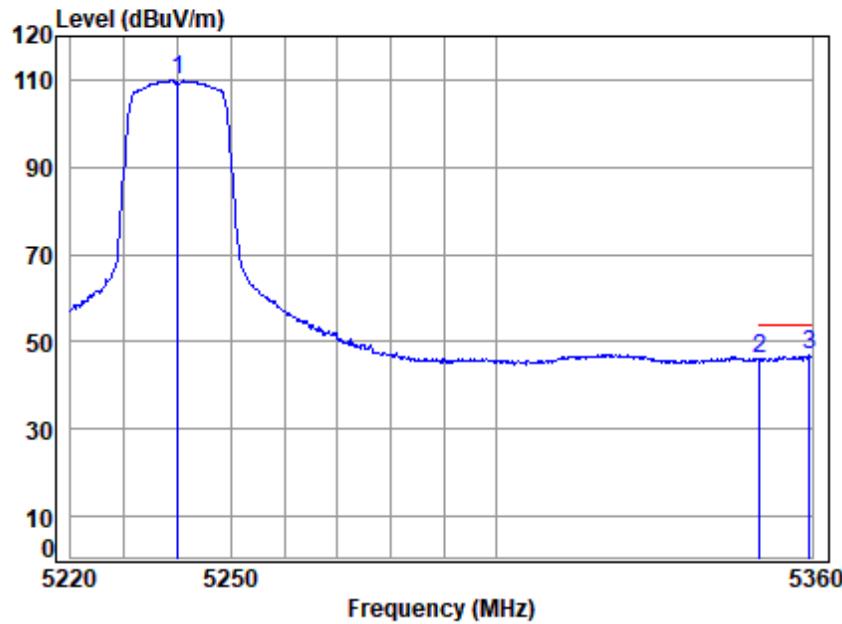
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Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5240 Band edge  
Note : 5G WIFI 11N20

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Limit	Over Line dB	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	8.29	31.99	31.94	101.68	110.02	-----	-----	-----	Average
2	5350.020	8.28	32.25	32.10	37.67	46.10	54.00	-7.90	-7.90	Average
3	5359.433	8.28	32.27	32.11	38.35	46.79	54.00	-7.21	-7.21	Average

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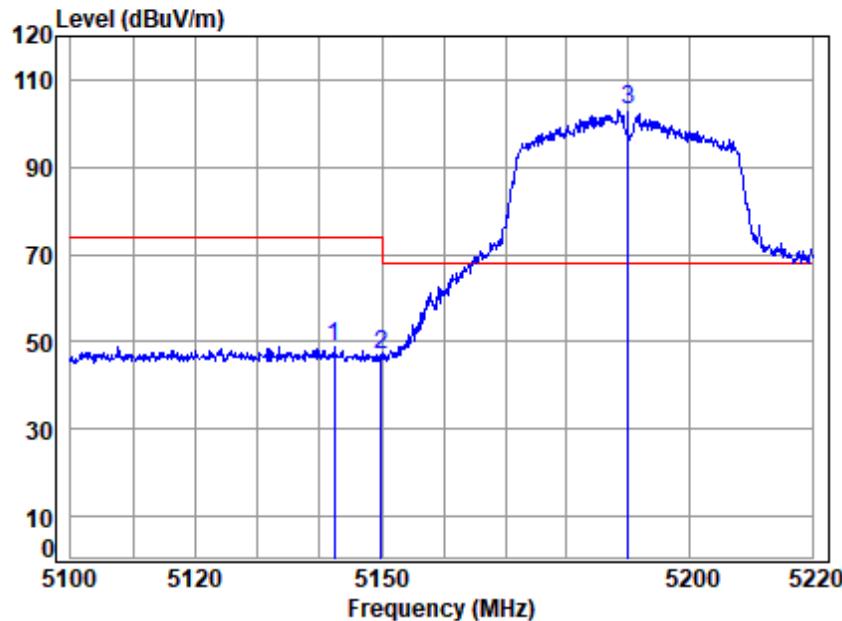
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Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5190 Band edge  
Note : 5G WIFI 11N40

		Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5142.281	8.29	31.75	31.81	40.72	48.95	74.00	-25.05	peak
2	5149.980	8.29	31.77	31.82	38.59	46.83	74.00	-27.17	peak
3	5190.000	8.29	31.87	31.87	94.65	102.94	68.20	34.74	peak

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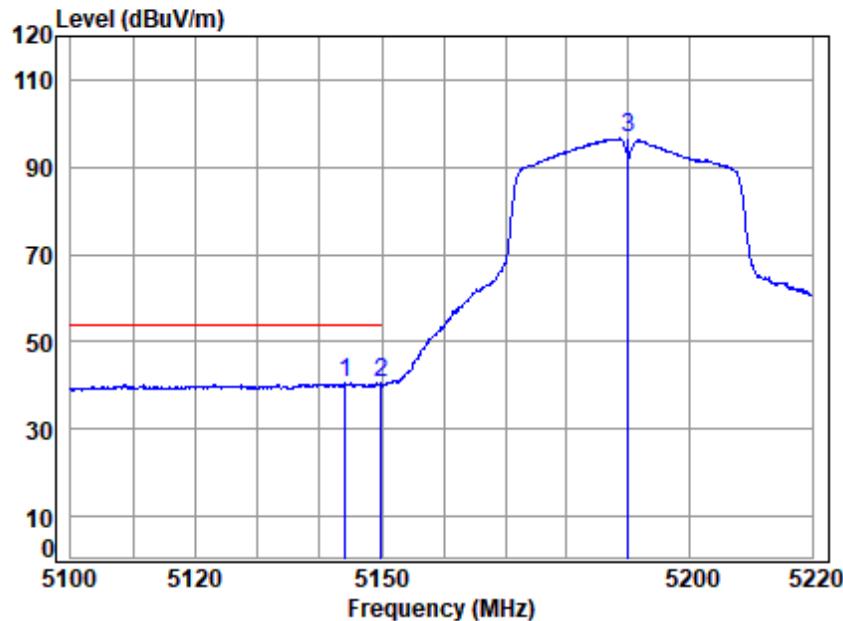
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Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5190 Band edge  
Note : 5G WIFI 11N40

		Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5144.195	8.29	31.76	31.81	32.20	40.44	54.00	-13.56	Average
2	5149.980	8.29	31.77	31.82	32.36	40.60	54.00	-13.40	Average
3	5190.000	8.29	31.87	31.87	88.24	96.53	-----	-----	Average

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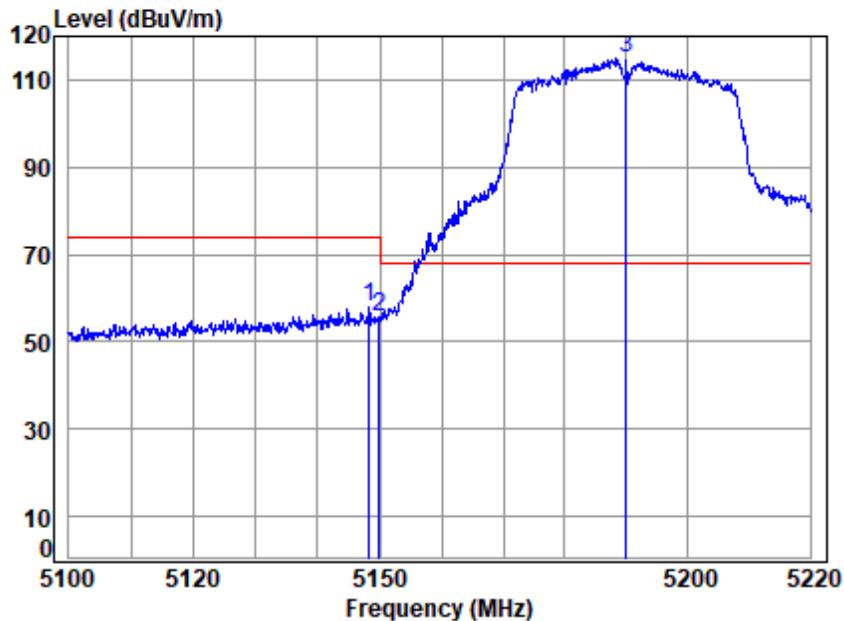
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Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5190 Band edge  
Note : 5G WIFI 11N40

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.264	8.29	31.77	31.81	49.52	57.77	74.00	-16.23	Peak
2	5149.980	8.29	31.77	31.82	47.61	55.85	74.00	-18.15	Peak
3	5190.000	8.29	31.87	31.87	106.53	114.82	68.20	46.62	Peak

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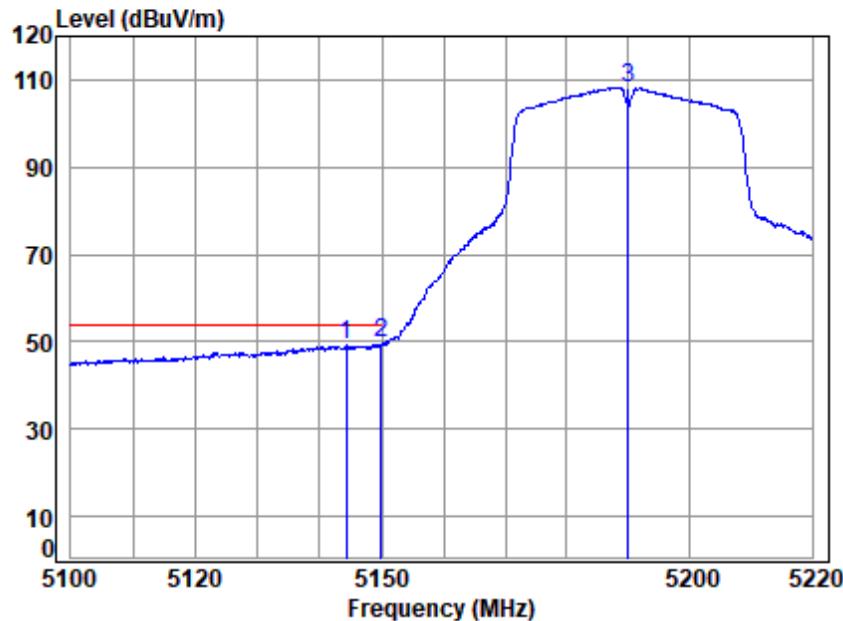
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Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5190 Band edge  
Note : 5G WIFI 11N40

		Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5144.314	8.29	31.76	31.81	41.11	49.35	54.00	-4.65	Average
2	5149.980	8.29	31.77	31.82	41.44	49.68	54.00	-4.32	Average
3	5190.000	8.29	31.87	31.87	99.91	108.20	-----	-----	Average

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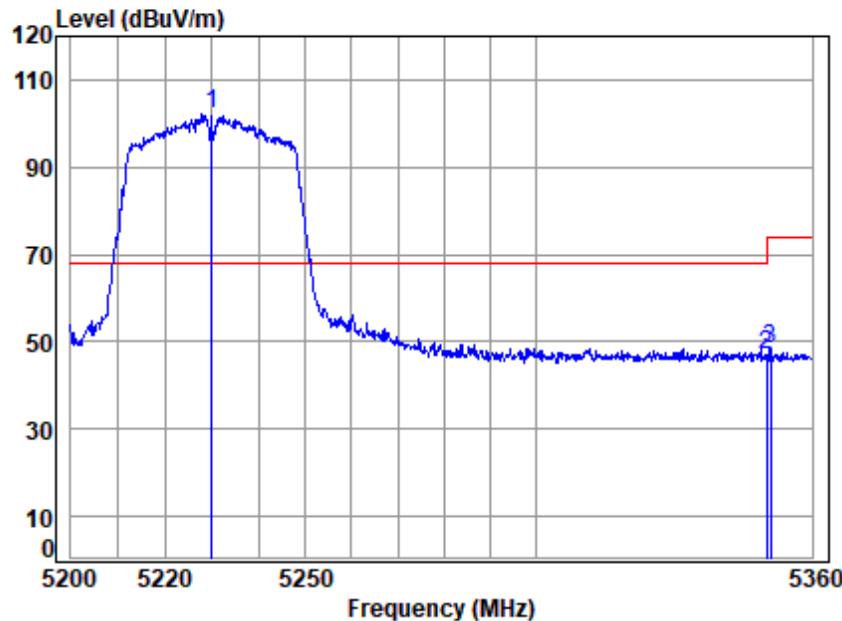
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Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5230 Band edge  
Note : 5G WIFI 11N40

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5230.000	8.29	31.97	31.93	93.87	102.20	68.20	34.00	peak
2	5350.020	8.28	32.25	32.10	38.60	47.03	74.00	-26.97	peak
3	5350.911	8.28	32.25	32.10	39.93	48.36	74.00	-25.64	peak

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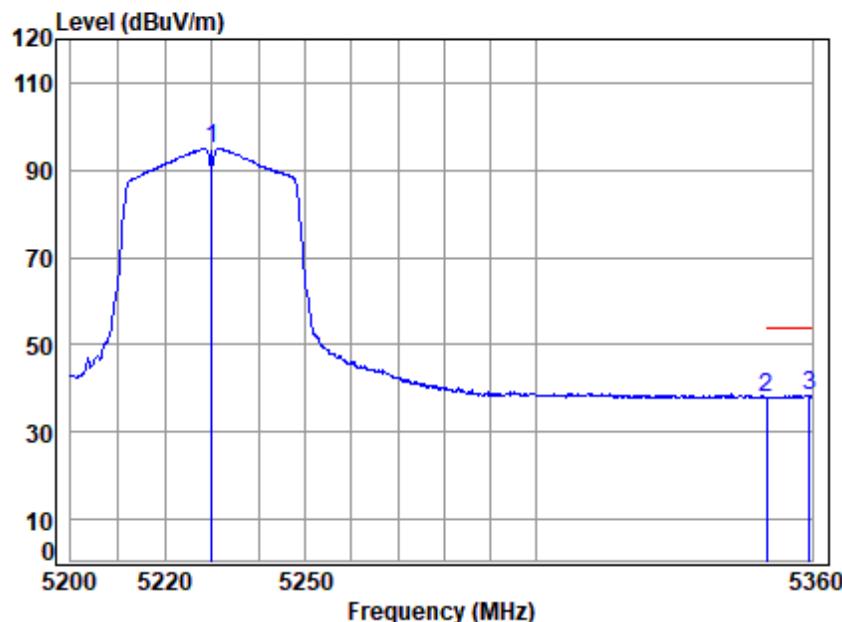
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Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5230 Band edge  
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5230.000	8.29	31.97	31.93	86.60	94.93	-----	-----	Average
2	5350.020	8.28	32.25	32.10	29.67	38.10	54.00	-15.90	Average
3	5359.513	8.28	32.27	32.11	30.05	38.49	54.00	-15.51	Average

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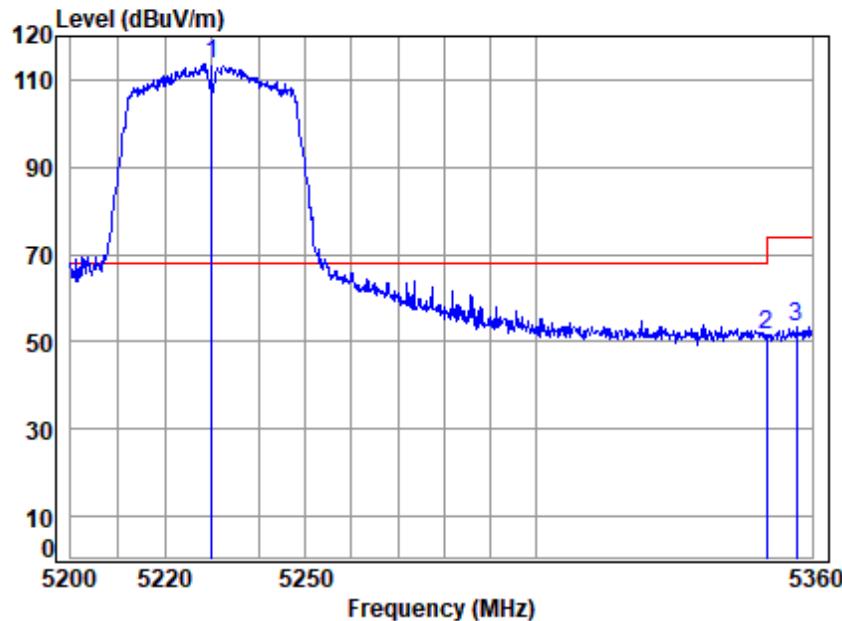
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Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5230 Band edge  
Note : 5G WIFI 11N40

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5230.000	8.29	31.97	31.93	105.20	113.53	68.20	45.33	Peak
2	5350.020	8.28	32.25	32.10	42.99	51.42	74.00	-22.58	Peak
3	5356.590	8.28	32.27	32.11	45.16	53.60	74.00	-20.40	Peak

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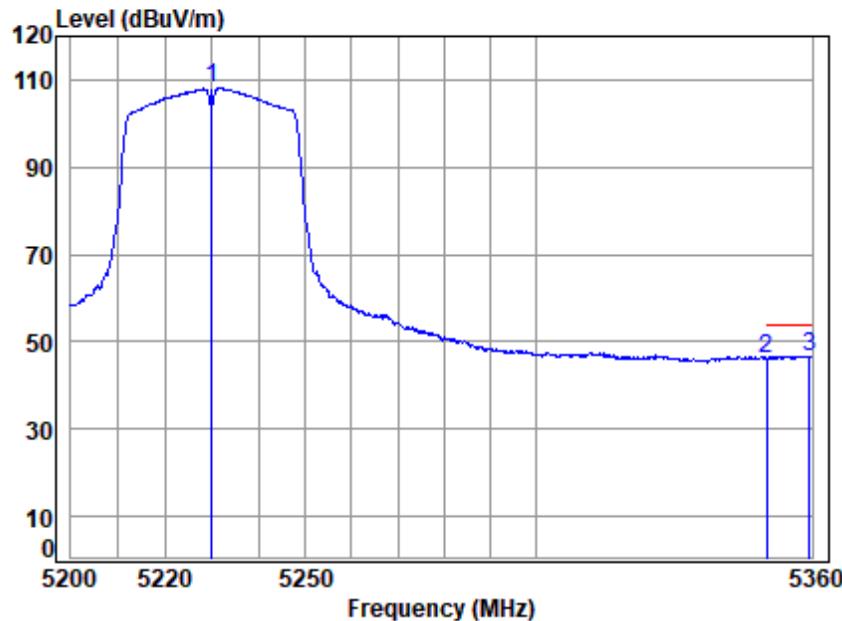
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Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5230 Band edge  
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5230.000	8.29	31.97	31.93	99.83	108.16	-----	-----	Average
2	5350.020	8.28	32.25	32.10	37.75	46.18	54.00	-7.82	Average
3	5359.350	8.28	32.27	32.11	38.31	46.75	54.00	-7.25	Average

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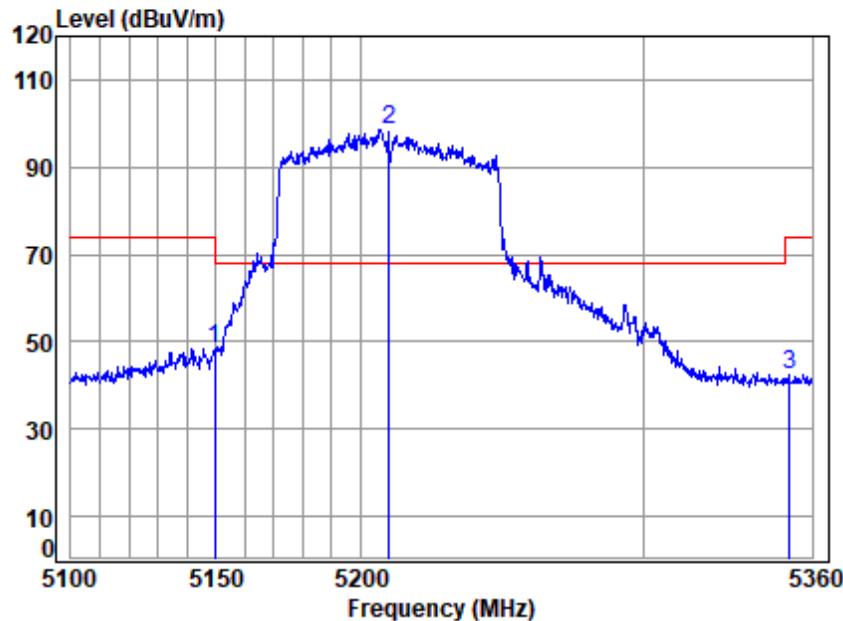
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Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5210 Band edge  
Note : 5G WIFI 11AC80

		Cable Freq	Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Line dBuV/m	Over Limit dB	Remark
		MHz	dB	dB/m		dB	dBuV	dBuV/m			
1	5149.435	8.29	31.77	31.82	40.29	40.29	48.53	74.00	-25.47	peak	
2	5210.000	8.29	31.92	31.90	90.35	90.35	98.66	68.20	30.46	peak	
3	5351.744	8.28	32.26	32.10	33.91	33.91	42.35	74.00	-31.65	peak	

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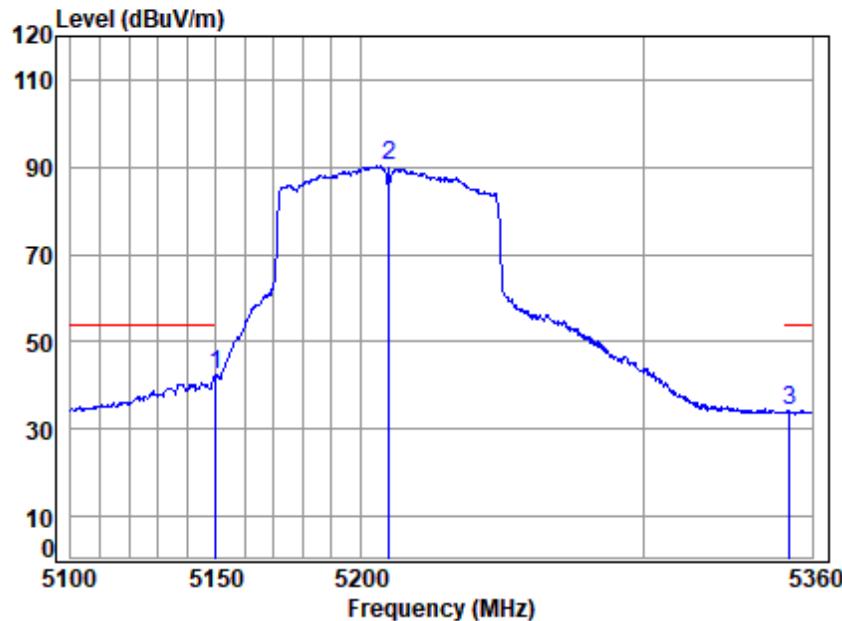
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Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5210 Band edge  
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5149.690	8.29	31.77	31.82	34.24	42.48	54.00	-11.52	Average
2	5210.000	8.29	31.92	31.90	81.92	90.23	-----	-----	Average
3	5351.744	8.28	32.26	32.10	25.76	34.20	54.00	-19.80	Average

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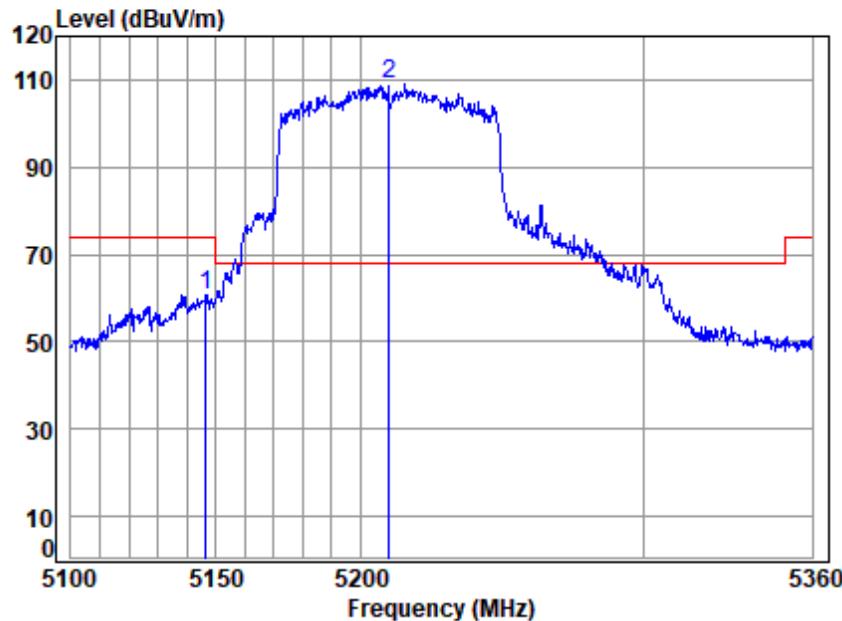
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Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5210 Band edge  
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5146.363	8.29	31.76	31.81	52.33	60.57	74.00	-13.43	Peak
2	5210.000	8.29	31.92	31.90	100.58	108.89	68.20	40.69	Peak
3	5360.000	8.28	32.28	32.11	43.16	51.61	74.00	-22.39	Peak

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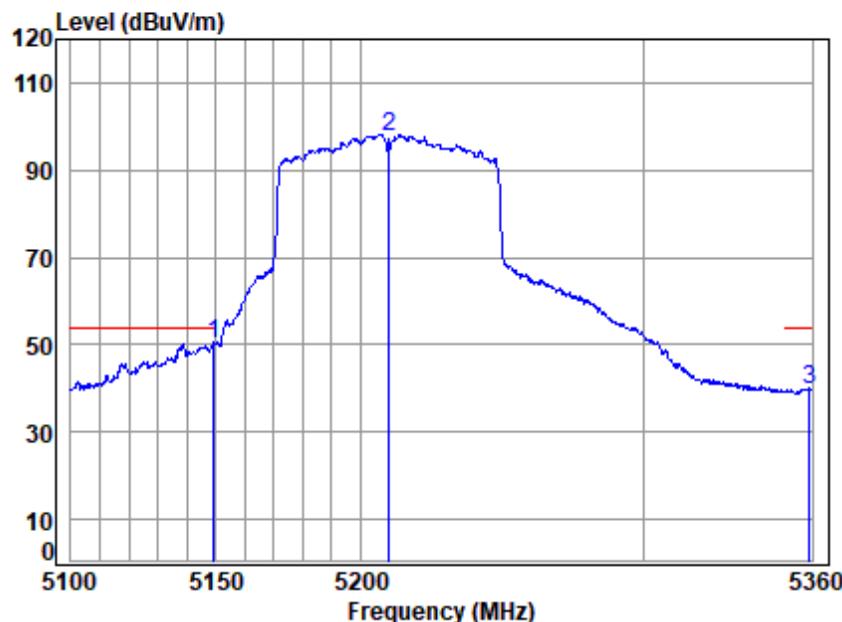
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Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5210 Band edge  
Note : 5G WIFI 11AC80

		Cable Freq	Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Limit	Remark
		MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5149.178	8.29	31.77	31.82	42.04	42.04	50.28	54.00	-3.72	Average
2	5210.000	8.29	31.92	31.90	89.27	89.27	97.58	-----	-----	Average
3	5358.934	8.28	32.27	32.11	31.29	31.29	39.73	54.00	-14.27	Average

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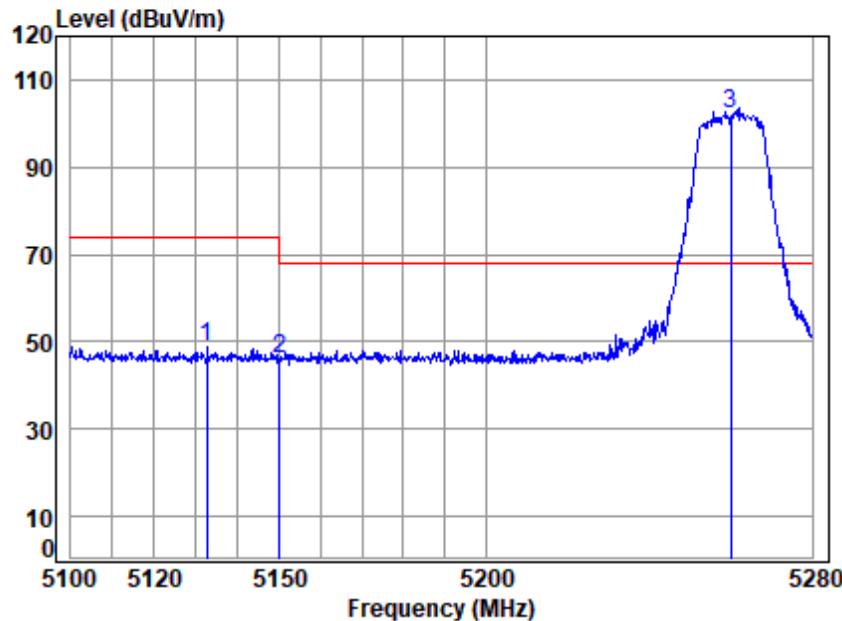
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5260 Band edge  
Note : 5G WIFI 11A

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5132.653	8.29	31.73	31.79	40.78	49.01	74.00	-24.99	peak
2	5149.980	8.29	31.77	31.82	37.75	45.99	74.00	-28.01	peak
3	5260.000	8.28	32.04	31.97	94.06	102.41	68.20	34.21	peak

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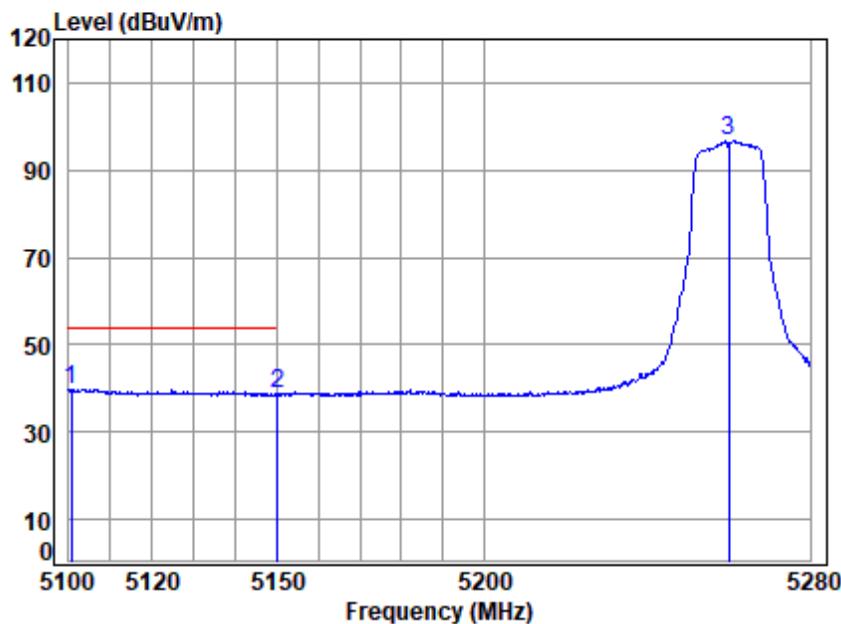
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5260 Band edge  
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5100.708	8.29	31.65	31.75	31.62	39.81	54.00	-14.19	Average
2	5149.980	8.29	31.77	31.82	30.35	38.59	54.00	-15.41	Average
3	5260.000	8.28	32.04	31.97	88.23	96.58	-----	-----	Average

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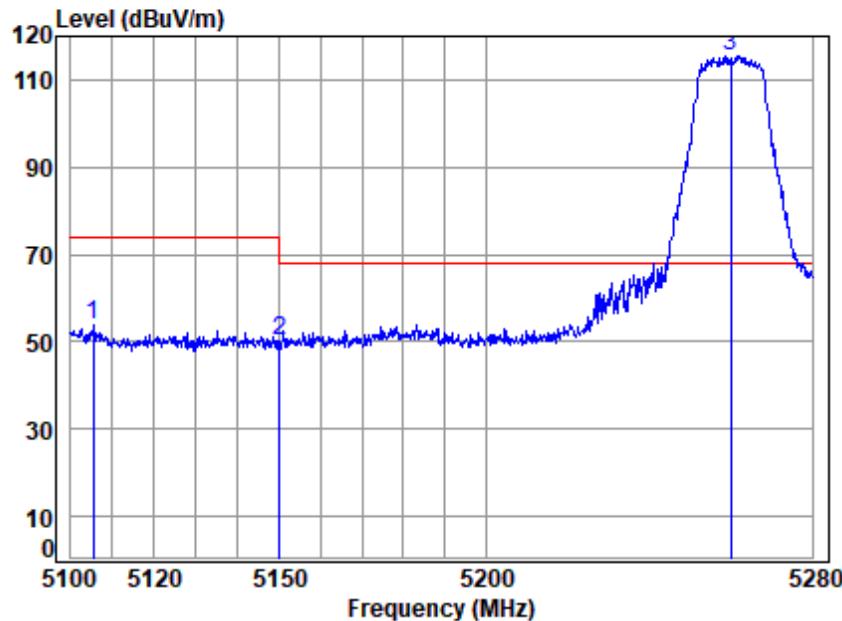
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Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5260 Band edge  
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Remark	
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	5105.310	8.29	31.66	31.75	45.69	53.89	74.00	-20.11	Peak
2	5149.980	8.29	31.77	31.82	42.11	50.35	74.00	-23.65	Peak
3	5260.000	8.28	32.04	31.97	107.18	115.53	68.20	47.33	Peak

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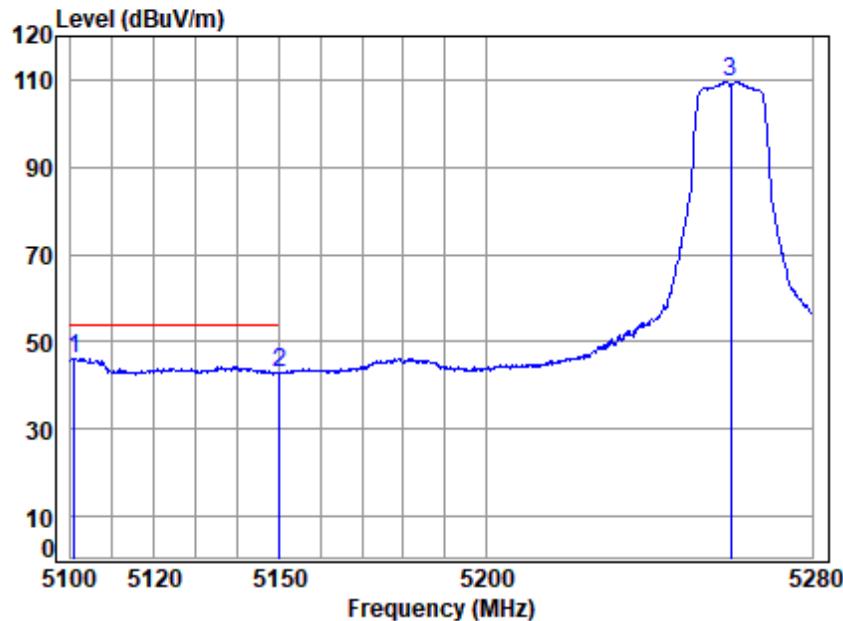
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Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5260 Band edge  
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5100.885	8.29	31.65	31.75	38.02	46.21	54.00	-7.79	Average
2	5149.980	8.29	31.77	31.82	34.81	43.05	54.00	-10.95	Average
3	5260.000	8.28	32.04	31.97	101.17	109.52	-----	-----	Average

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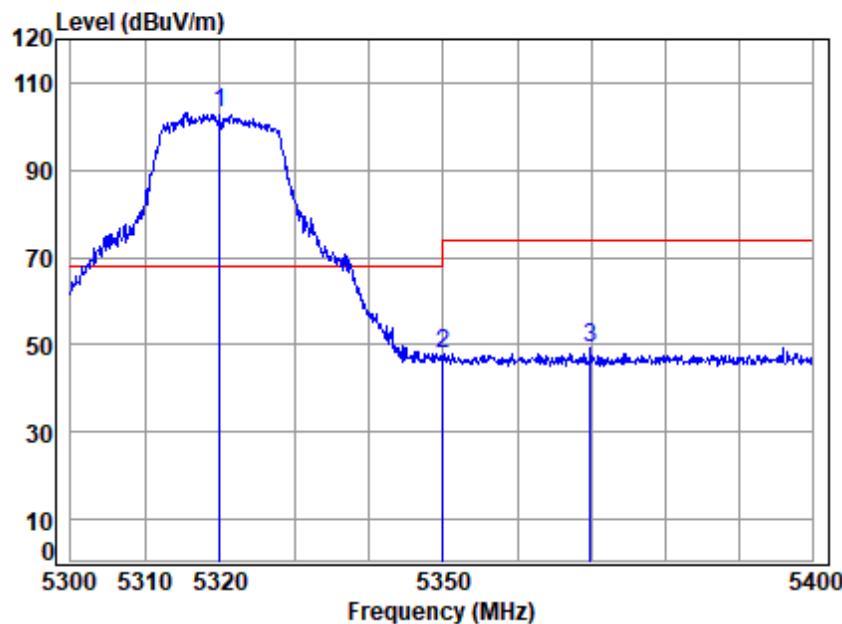
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5320 Band edge  
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5320.000	8.28	32.18	32.06	94.60	103.00	68.20	34.80	peak
2	5350.020	8.28	32.25	32.10	39.60	48.03	74.00	-25.97	peak
3	5369.904	8.28	32.30	32.12	40.81	49.27	74.00	-24.73	peak

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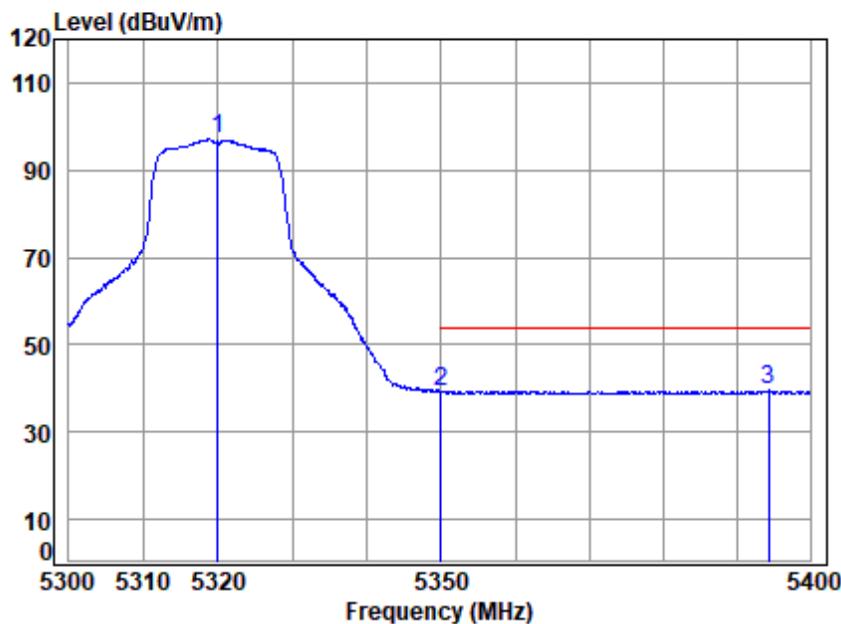
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5320 Band edge  
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	5320.000	8.28	32.18	32.06	88.62	97.02	-----	-----	Average
2	5350.020	8.28	32.25	32.10	30.89	39.32	54.00	-14.68	Average
3	5394.351	8.28	32.36	32.16	31.04	39.52	54.00	-14.48	Average

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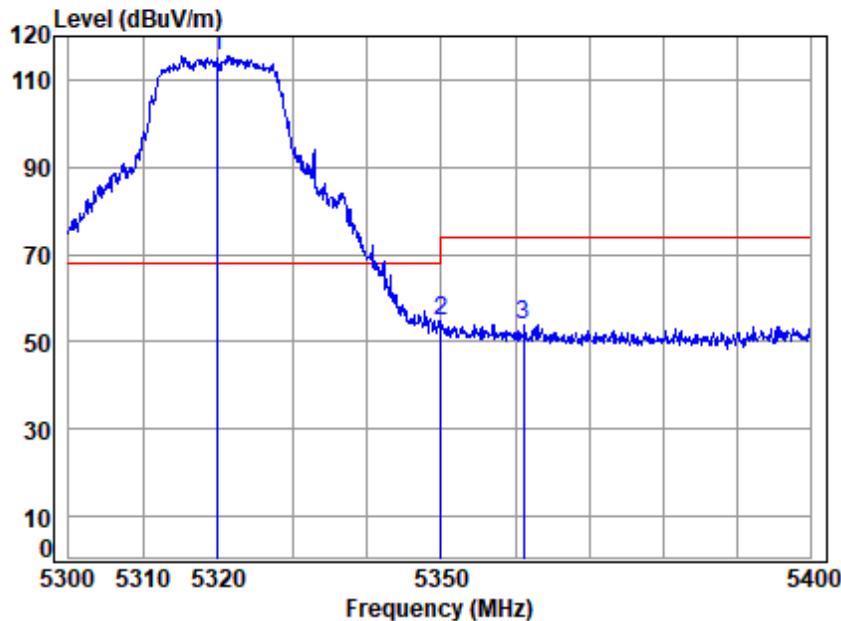
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Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5320 Band edge  
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5320.000	8.28	32.18	32.06	106.98	115.38	68.20	47.18	Peak
2	5350.020	8.28	32.25	32.10	46.43	54.86	74.00	-19.14	Peak
3	5361.178	8.28	32.28	32.11	45.50	53.95	74.00	-20.05	Peak

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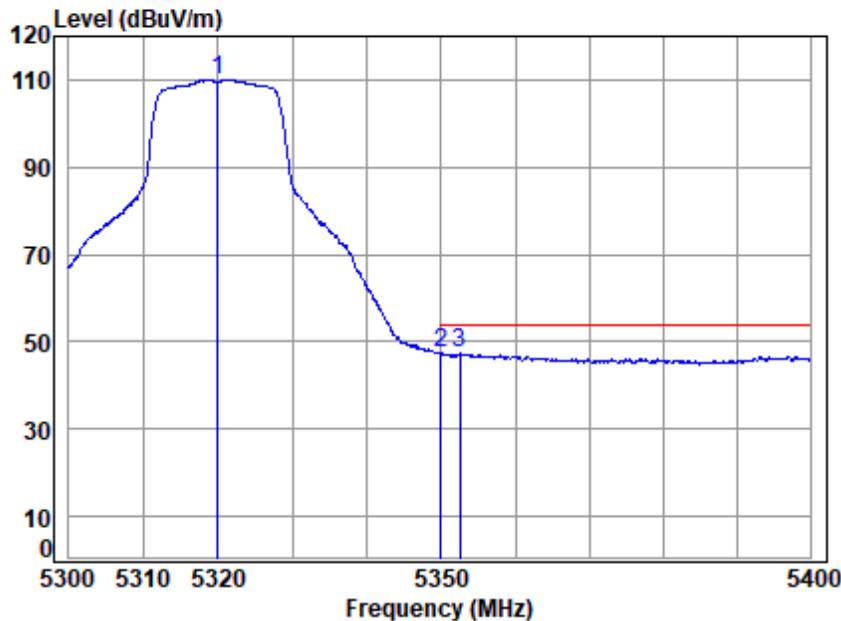
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Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5320 Band edge  
Note : 5G WIFI 11A

		Cable Freq	Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5320.000	8.28	32.18	32.06	101.78	110.18	-----	-----	-----	Average
2	5350.020	8.28	32.25	32.10	38.93	47.36	54.00	-6.64	-6.64	Average
3	5352.467	8.28	32.26	32.10	39.07	47.51	54.00	-6.49	-6.49	Average

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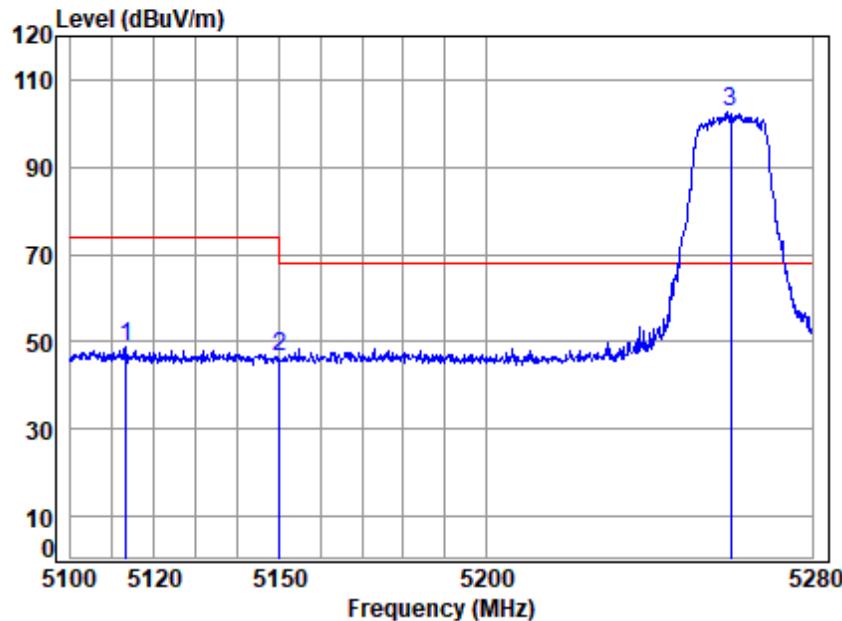
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5260 Band edge  
Note : 5G WIFI 11N20

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5113.285	8.29	31.68	31.76	40.38	48.59	74.00	-25.41	peak
2	5149.980	8.29	31.77	31.82	38.32	46.56	74.00	-27.44	peak
3	5260.000	8.28	32.04	31.97	94.21	102.56	68.20	34.36	peak

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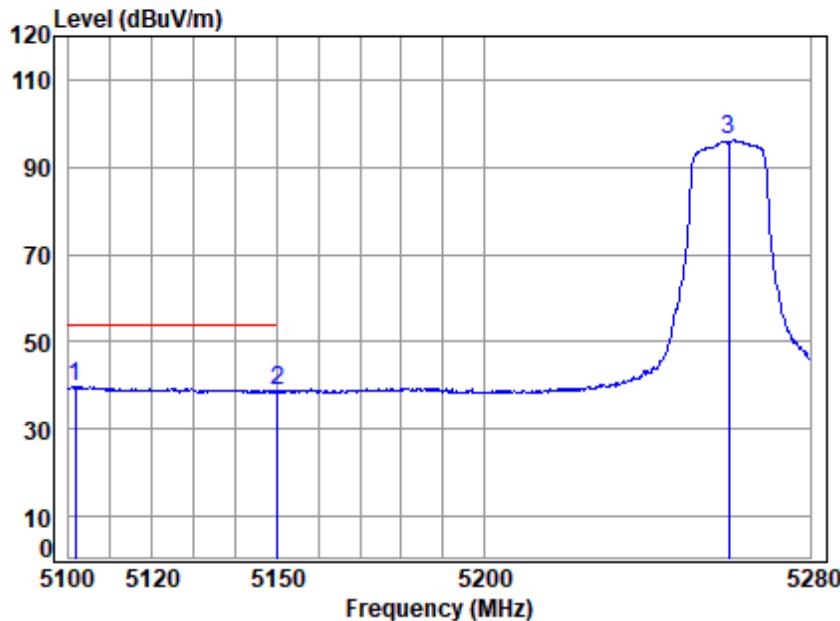
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5260 Band edge  
Note : 5G WIFI 11N20

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5101.592	8.29	31.65	31.75	31.53	39.72	54.00	-14.28	Average
2	5149.980	8.29	31.77	31.82	30.57	38.81	54.00	-15.19	Average
3	5260.000	8.28	32.04	31.97	87.92	96.27	-----	-----	Average

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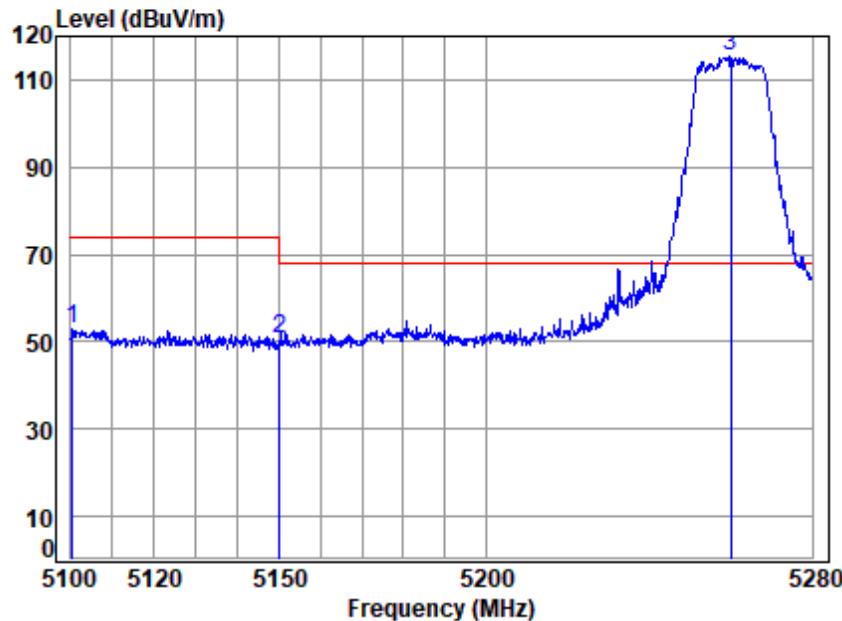
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Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5260 Band edge  
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5100.354	8.29	31.65	31.75	44.78	52.97	74.00	-21.03	Peak
2	5149.980	8.29	31.77	31.82	42.21	50.45	74.00	-23.55	Peak
3	5260.000	8.28	32.04	31.97	107.11	115.46	68.20	47.26	Peak

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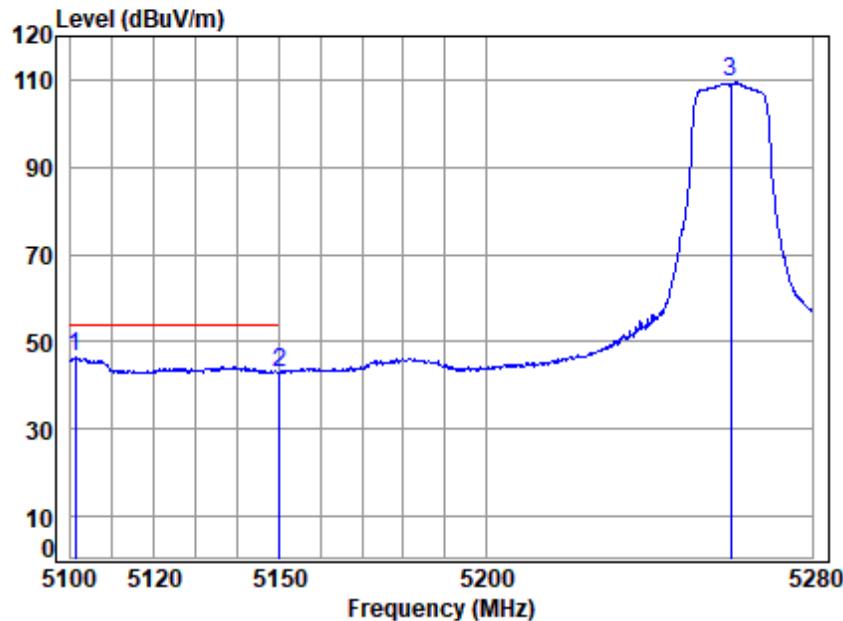
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Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5260 Band edge  
Note : 5G WIFI 11N20

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Limit dBuV/m	Over Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5101.062	8.29	31.65	31.75	38.28	46.47	54.00	-7.53	Average
2	5149.980	8.29	31.77	31.82	34.82	43.06	54.00	-10.94	Average
3	5260.000	8.28	32.04	31.97	100.97	109.32	-----	-----	Average

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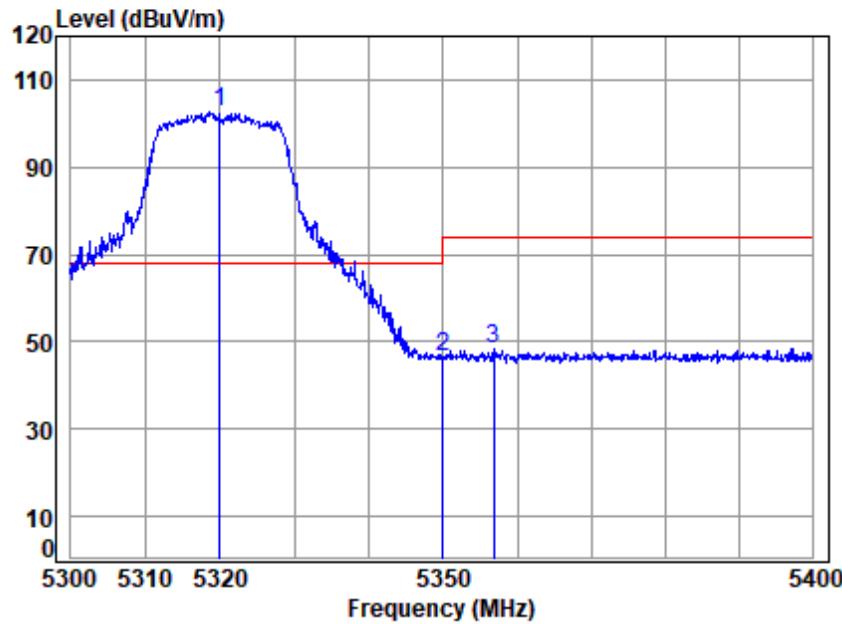
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5320 Band edge  
Note : 5G WIFI 11N20

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Limit dBuV/m	Over Limit Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5320.000	8.28	32.18	32.06	94.40	102.80	68.20	34.60	peak
2	5350.020	8.28	32.25	32.10	38.13	46.56	74.00	-27.44	peak
3	5356.871	8.28	32.27	32.11	39.99	48.43	74.00	-25.57	peak

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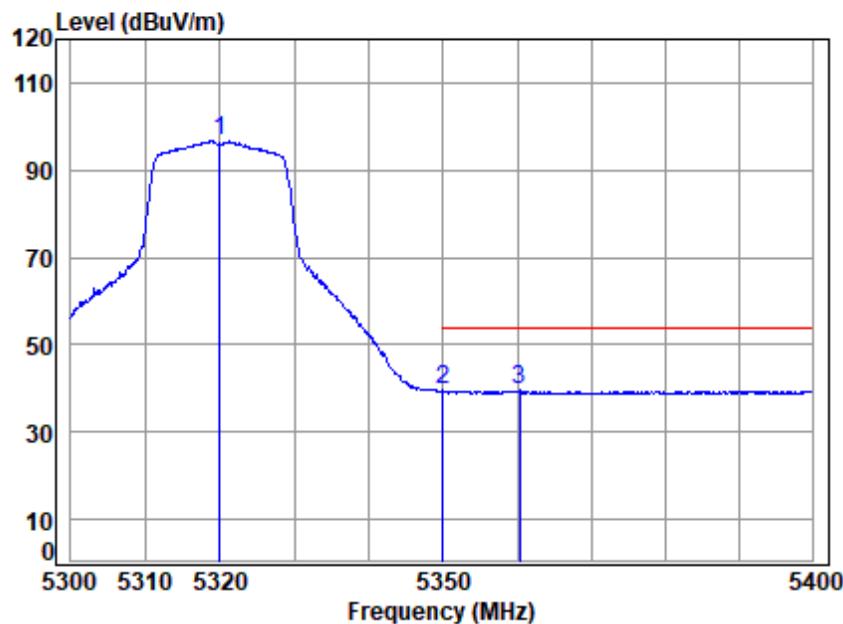
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5320 Band edge  
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5320.000	8.28	32.18	32.06	88.29	96.69	-----	-----	Average
2	5350.020	8.28	32.25	32.10	31.08	39.51	54.00	-14.49	Average
3	5360.376	8.28	32.28	32.11	31.10	39.55	54.00	-14.45	Average

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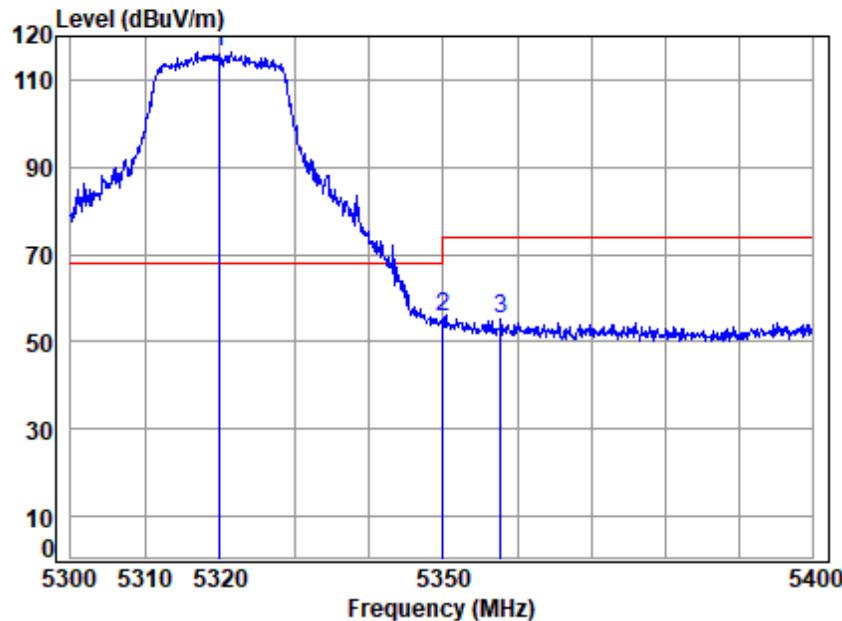
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Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5320 Band edge  
Note : 5G WIFI 11N20

		Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5320.000	8.28	32.18	32.06	107.95	116.35	68.20	48.15	Peak
2	5350.020	8.28	32.25	32.10	47.16	55.59	74.00	-18.41	Peak
3	5357.772	8.28	32.27	32.11	46.88	55.32	74.00	-18.68	Peak

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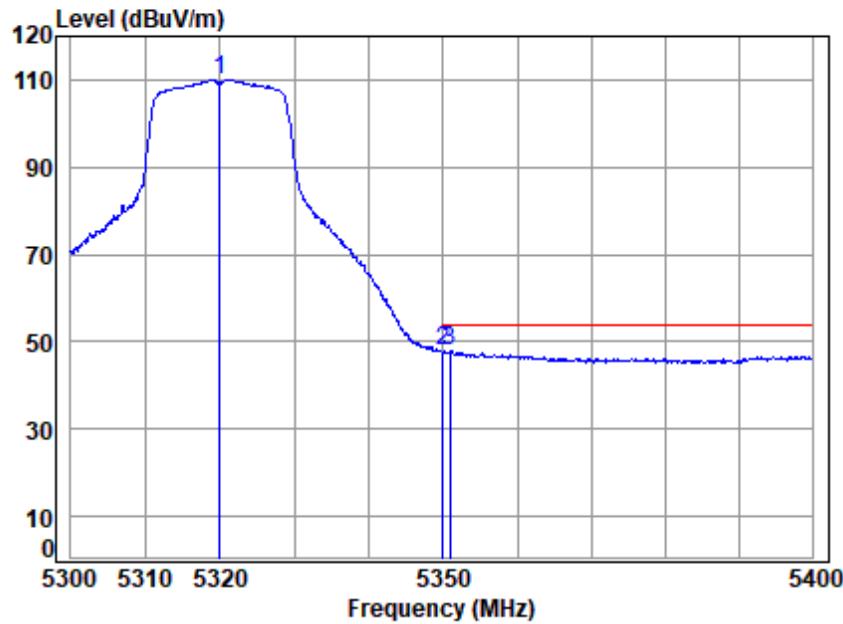
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Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5320 Band edge  
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5320.000	8.28	32.18	32.06	101.61	110.01	-----	-----	Average
2	5350.020	8.28	32.25	32.10	39.26	47.69	54.00	-6.31	Average
3	5350.966	8.28	32.25	32.10	39.34	47.77	54.00	-6.23	Average

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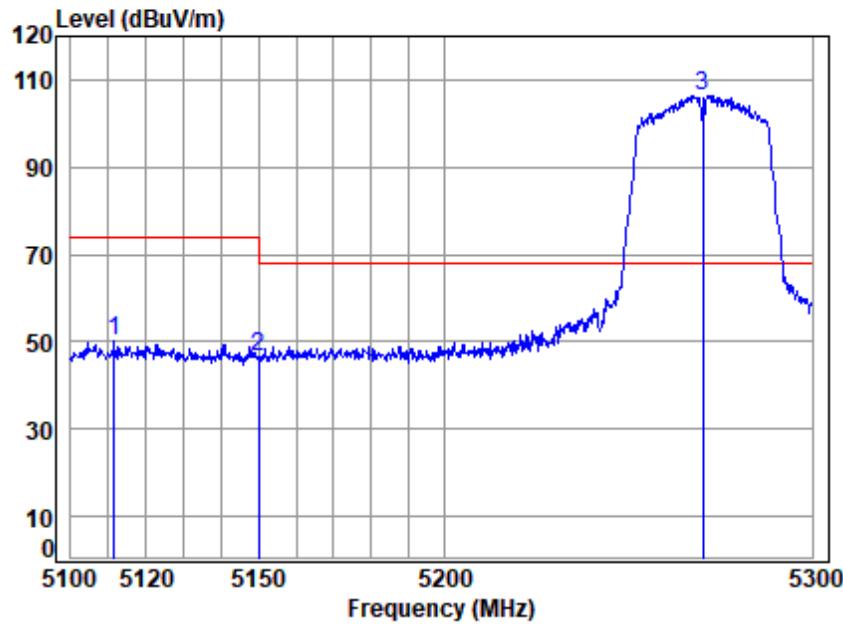
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5270 Band edge  
Note : 5G WIFI 11N40

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5111.391	8.29	31.68	31.76	42.20	50.41	74.00	-23.59	peak
2	5149.980	8.29	31.77	31.82	38.50	46.74	74.00	-27.26	peak
3	5270.000	8.28	32.06	31.99	98.06	106.41	68.20	38.21	peak

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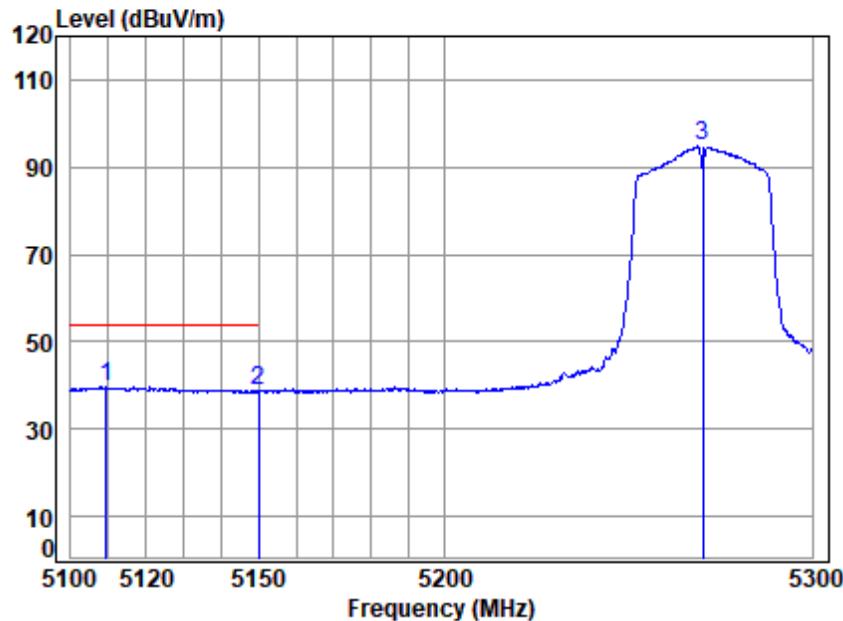
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5270 Band edge  
Note : 5G WIFI 11N40

		Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5109.425	8.29	31.67	31.76	31.60	39.80	54.00	-14.20	Average
2	5149.980	8.29	31.77	31.82	30.75	38.99	54.00	-15.01	Average
3	5270.000	8.28	32.06	31.99	86.36	94.71	-----	-----	Average

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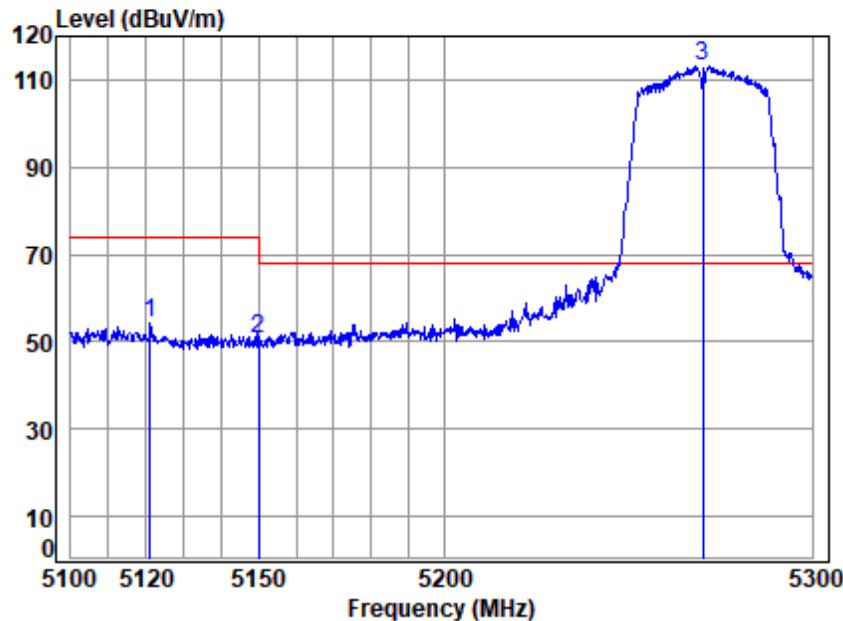
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Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5270 Band edge  
Note : 5G WIFI 11N40

		Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5121.034	8.29	31.70	31.78	45.97	54.18	74.00	-19.82	Peak
2	5149.980	8.29	31.77	31.82	42.43	50.67	74.00	-23.33	Peak
3	5270.000	8.28	32.06	31.99	104.78	113.13	68.20	44.93	Peak

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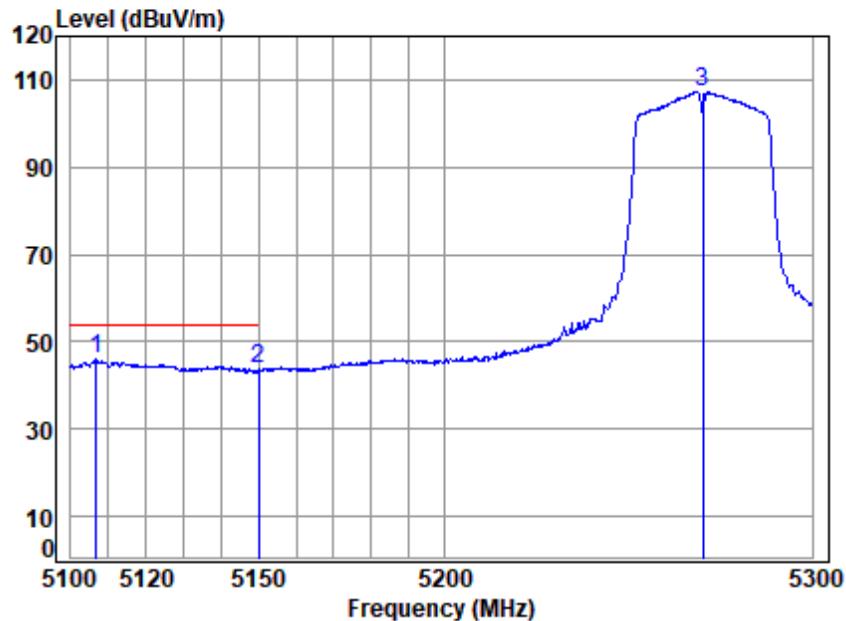
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Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5270 Band edge  
Note : 5G WIFI 11N40

		Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5106.674	8.29	31.67	31.76	37.70	45.90	54.00	-8.10	Average
2	5149.980	8.29	31.77	31.82	35.43	43.67	54.00	-10.33	Average
3	5270.000	8.28	32.06	31.99	99.04	107.39	-----	-----	Average

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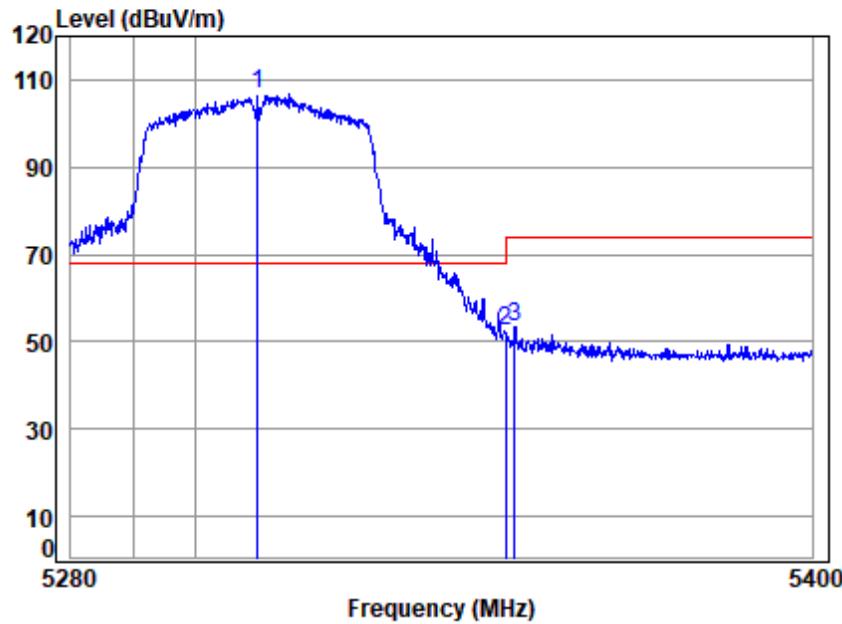
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5310 Band edge  
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5310.000	8.28	32.16	32.04	98.27	106.67	68.20	38.47	peak
2	5350.020	8.28	32.25	32.10	44.05	52.48	74.00	-21.52	peak
3	5351.556	8.28	32.26	32.10	44.93	53.37	74.00	-20.63	peak

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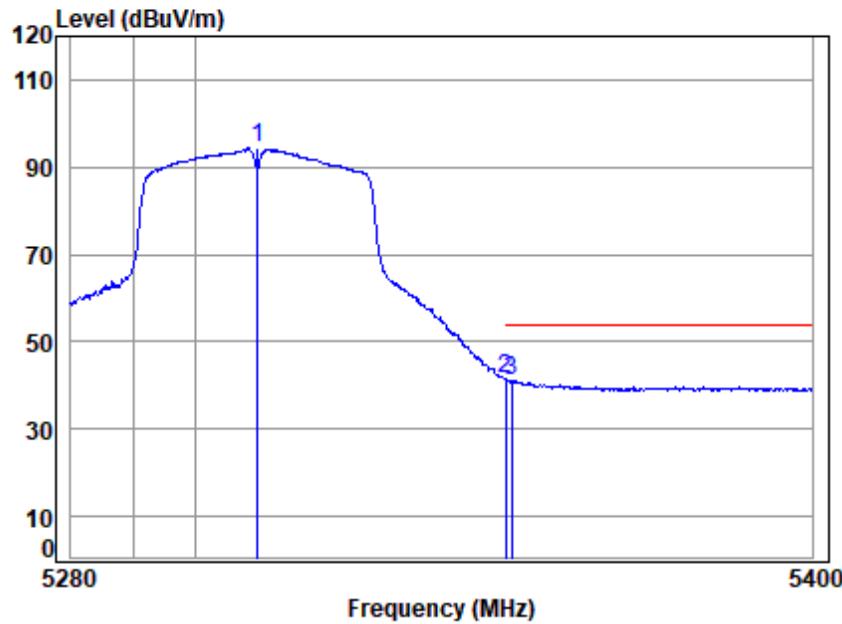
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5310 Band edge  
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5310.000	8.28	32.16	32.04	85.87	94.27	-----	-----	Average
2	5350.020	8.28	32.25	32.10	33.23	41.66	54.00	-12.34	Average
3	5351.075	8.28	32.25	32.10	32.75	41.18	54.00	-12.82	Average

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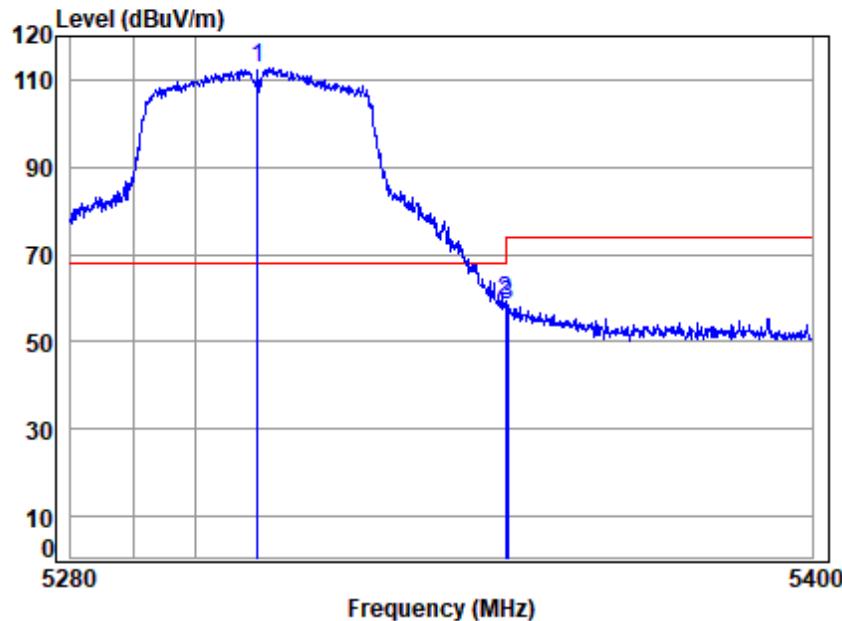
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Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5310 Band edge  
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5310.000	8.28	32.16	32.04	104.43	112.83	68.20	44.63	Peak
2	5350.020	8.28	32.25	32.10	50.75	59.18	74.00	-14.82	Peak
3	5350.474	8.28	32.25	32.10	49.83	58.26	74.00	-15.74	Peak

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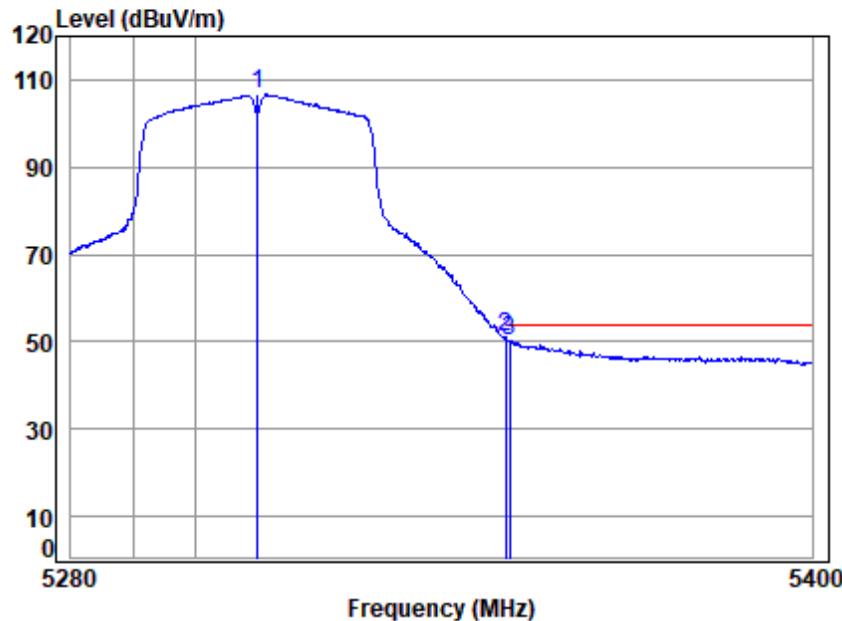
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Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5310 Band edge  
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5310.000	8.28	32.16	32.04	98.20	106.60	-----	-----	Average
2	5350.020	8.28	32.25	32.10	42.54	50.97	54.00	-3.03	Average
3	5350.714	8.28	32.25	32.10	41.85	50.28	54.00	-3.72	Average

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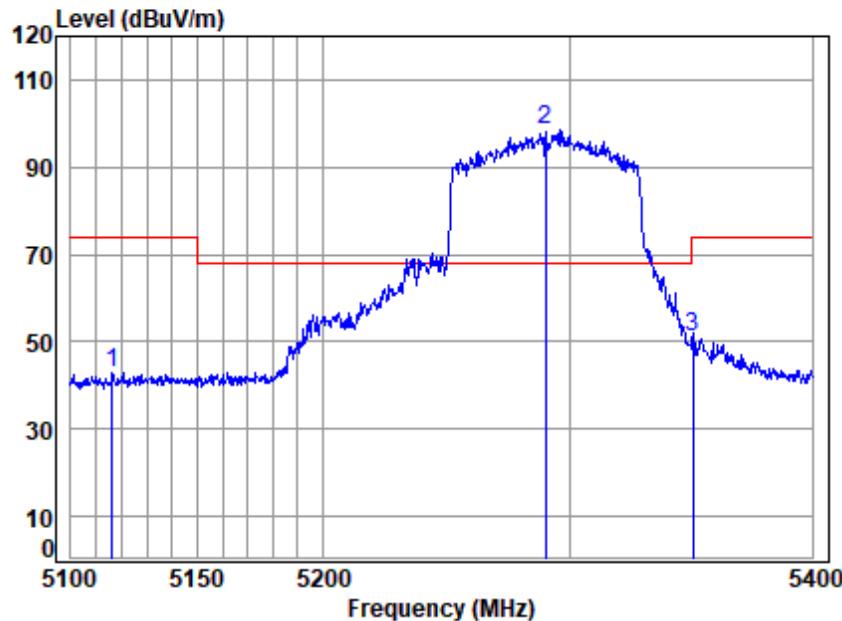
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5290 Band edge  
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5116.351	8.29	31.69	31.77	34.69	42.90	74.00	-31.10	peak
2	5290.000	8.28	32.11	32.01	90.37	98.75	68.20	30.55	peak
3	5350.535	8.28	32.25	32.10	42.51	50.94	74.00	-23.06	peak

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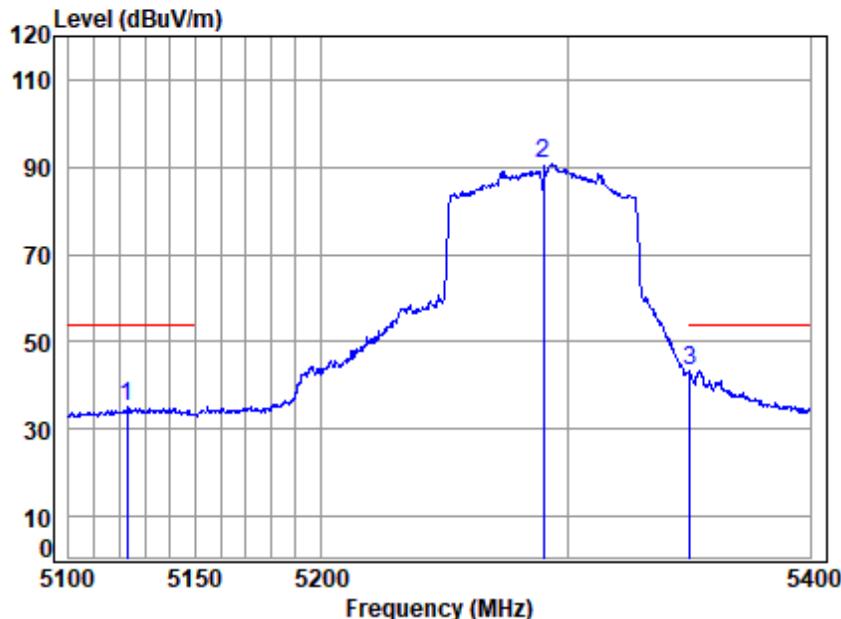
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5290 Band edge  
Note : 5G WIFI 11AC80

		Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5123.081	8.29	31.71	31.78	26.74	34.96	54.00	-19.04	Average
2	5290.000	8.28	32.11	32.01	82.38	90.76	-----	-----	Average
3	5350.229	8.28	32.25	32.10	34.87	43.30	54.00	-10.70	Average

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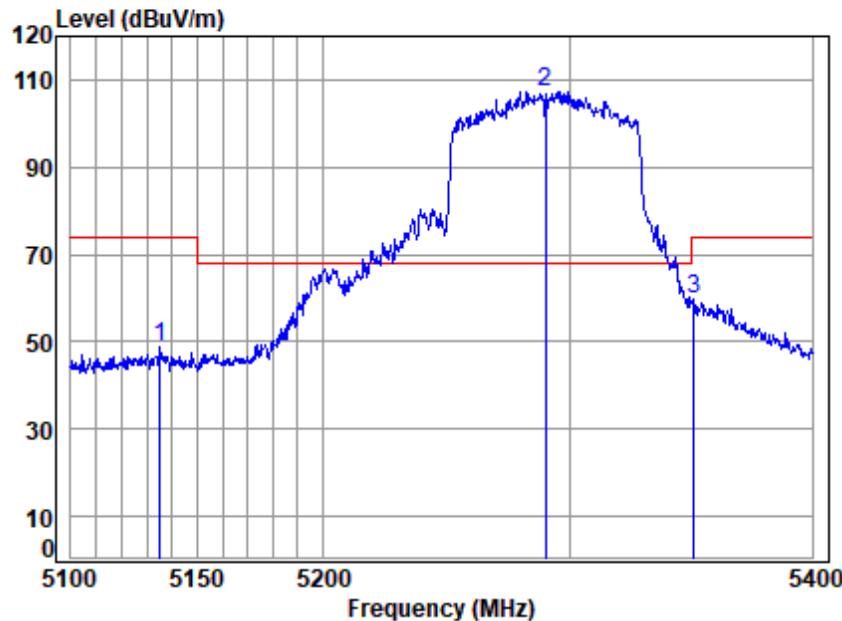
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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5290 Band edge  
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5135.395	8.29	31.74	31.80	40.69	48.92	74.00	-25.08	Peak
2	5290.000	8.28	32.11	32.01	99.02	107.40	68.20	39.20	Peak
3	5350.840	8.28	32.25	32.10	51.32	59.75	74.00	-14.25	Peak

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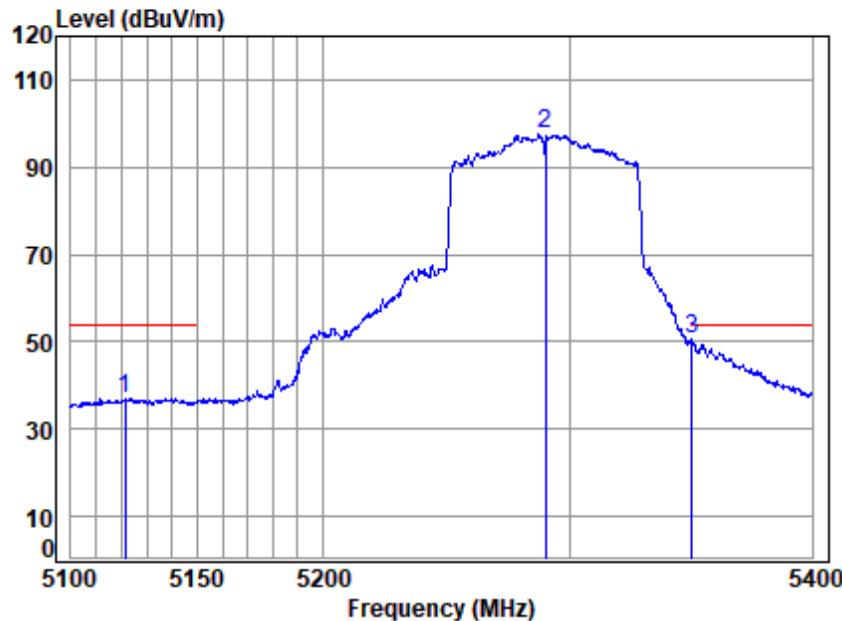
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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5290 Band edge  
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5121.617	8.29	31.70	31.78	28.89	37.10	54.00	-16.90	Average
2	5290.000	8.28	32.11	32.01	89.30	97.68	-----	-----	Average
3	5350.229	8.28	32.25	32.10	42.12	50.55	54.00	-3.45	Average

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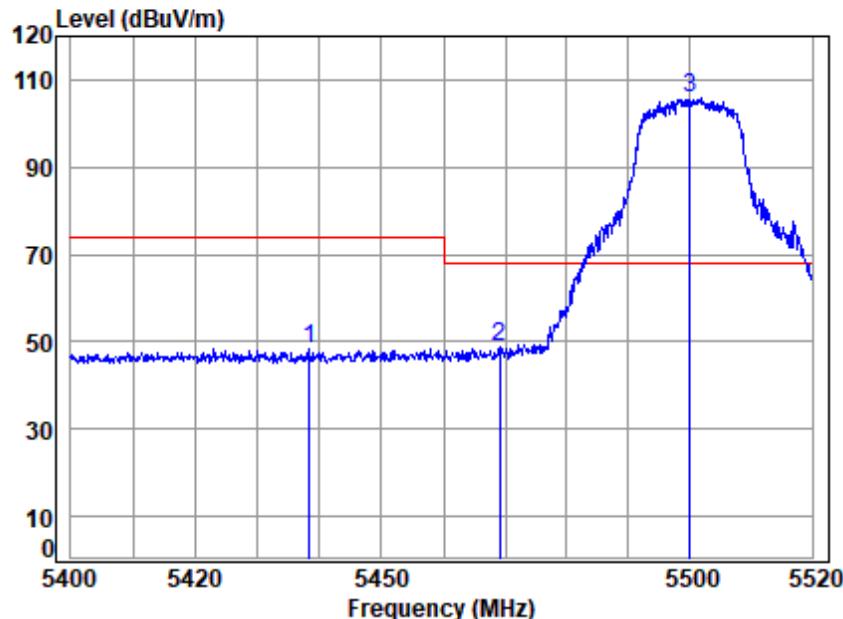
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Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5500 Band edge  
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5438.353	8.27	32.46	32.22	39.97	48.48	74.00	-25.52	peak
2	5469.038	8.27	32.53	32.26	40.34	48.88	68.20	-19.32	peak
3	5500.000	8.27	32.60	32.30	97.13	105.70	68.20	37.50	peak

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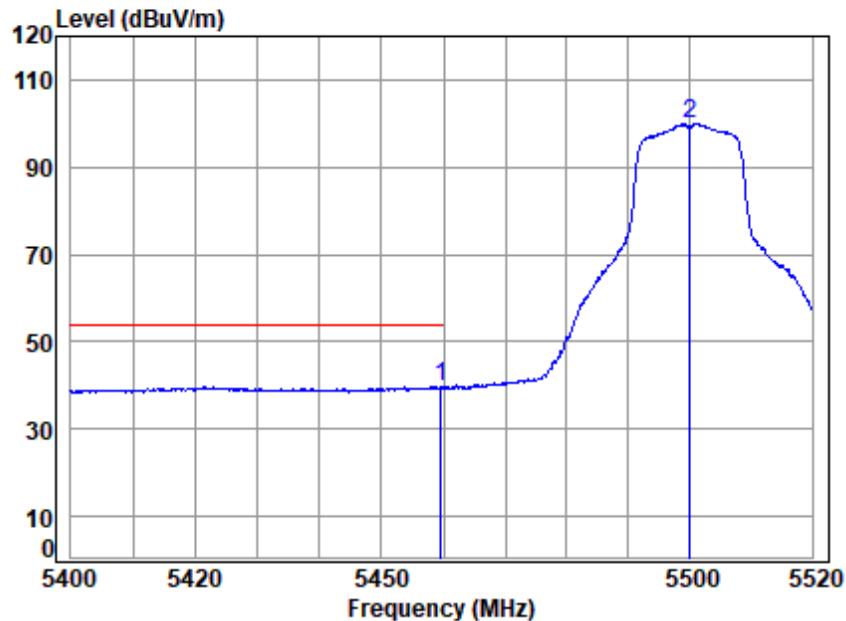
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Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5500 Band edge  
Note : 5G WIFI 11A

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Limit dBuV/m	Over Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5459.550	8.27	32.51	32.25	31.22	39.75	54.00	-14.25	Average
2	5500.000	8.27	32.60	32.30	91.41	99.98	-----	-----	Average

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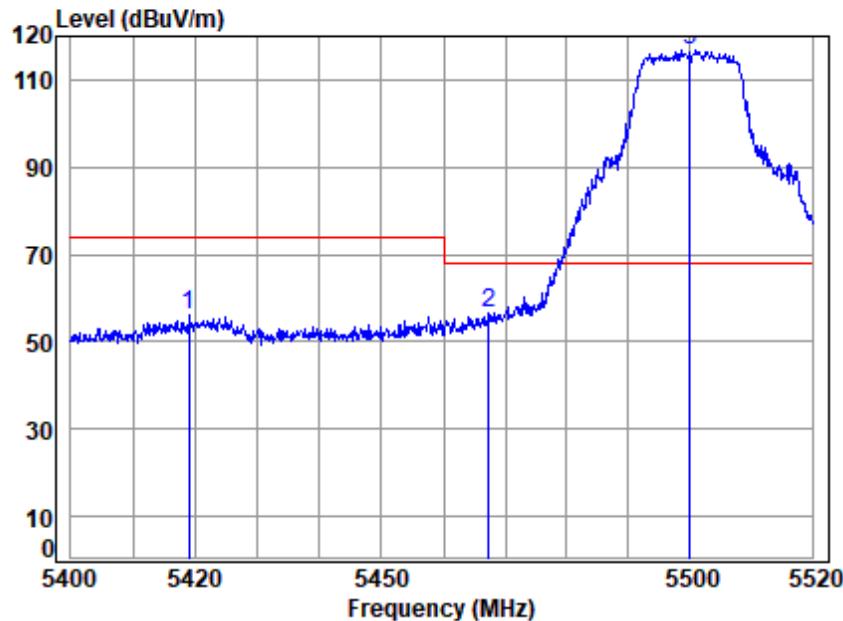
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Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5500 Band edge  
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5419.023	8.27	32.41	32.19	47.59	56.08	74.00	-17.92	Peak
2	5467.355	8.27	32.53	32.26	48.22	56.76	68.20	-11.44	peak
3	5500.000	8.27	32.60	32.30	108.33	116.90	68.20	48.70	Peak

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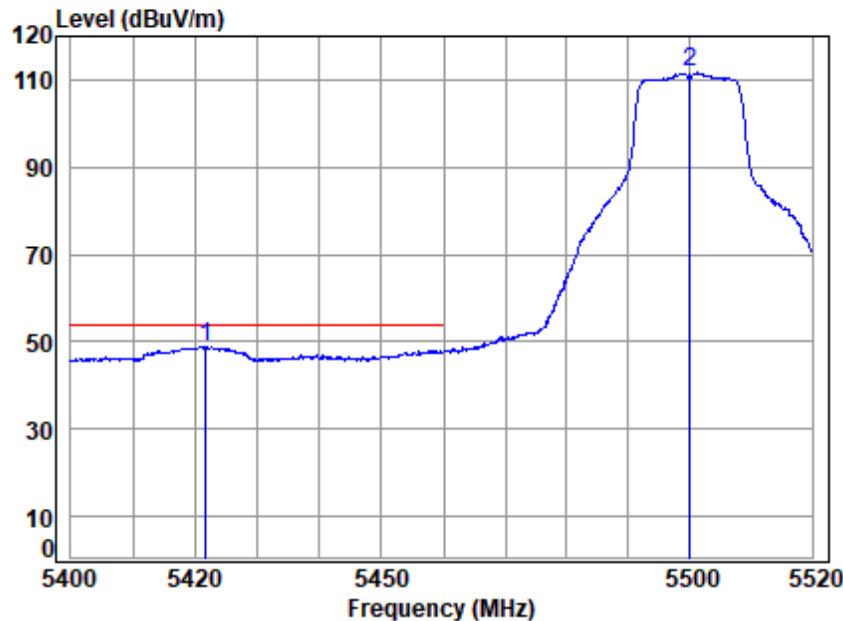
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Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5500 Band edge  
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5421.644	8.27	32.42	32.19	40.49	48.99	54.00	-5.01	Average
2	5500.000	8.27	32.60	32.30	103.01	111.58	-----	-----	Average

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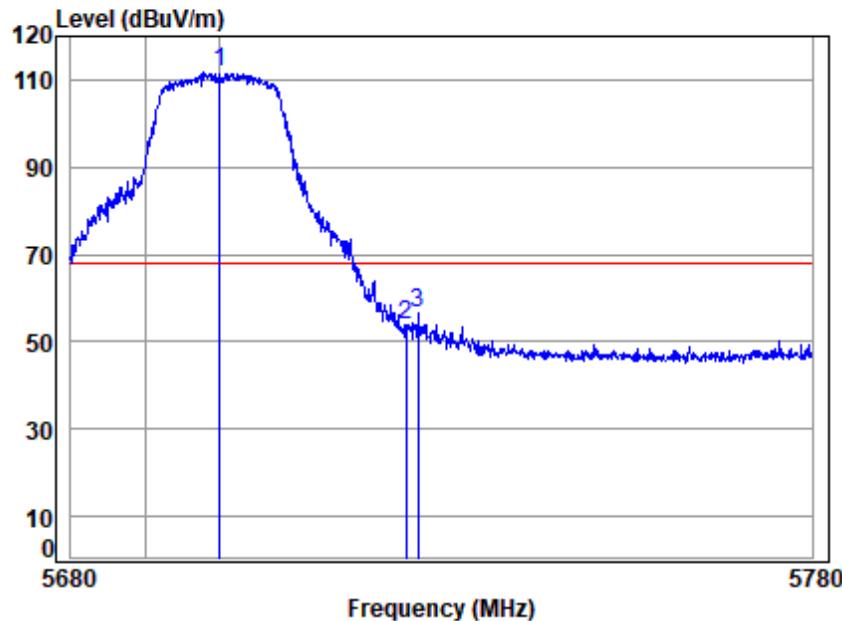
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Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5700 Band edge  
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5700.000	8.01	32.52	32.22	103.28	111.59	68.20	43.39	peak
2	5725.000	7.98	32.51	32.21	45.67	53.95	68.20	-14.25	peak
3	5726.583	7.98	32.51	32.21	48.22	56.50	68.20	-11.70	peak

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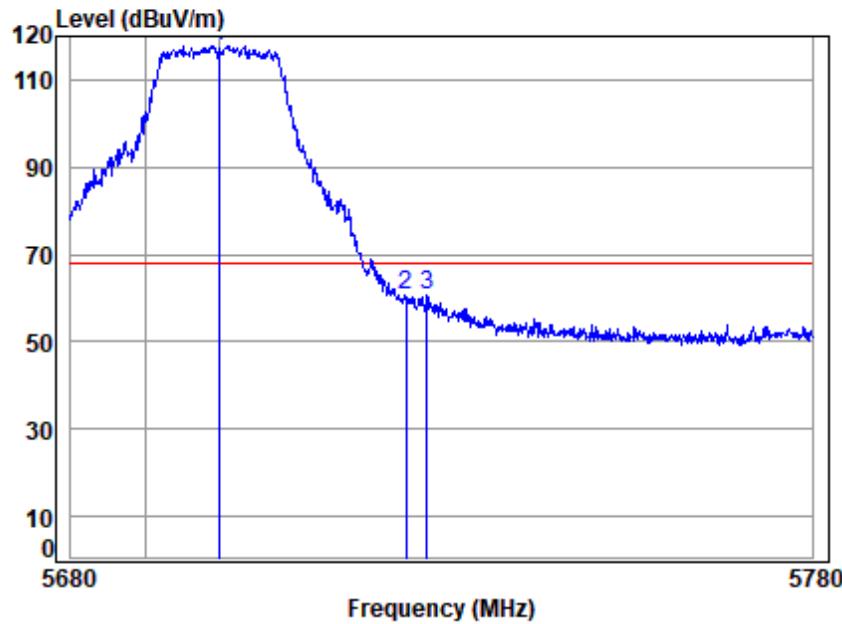
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Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5700 Band edge  
Note : 5G WIFI 11A

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Line dBuV/m	Over Limit dB	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5700.000	8.01	32.52	32.22	109.58	117.89	68.20	49.69	Peak	
2	5725.000	7.98	32.51	32.21	52.45	60.73	68.20	-7.47	Peak	
3	5727.782	7.98	32.51	32.21	52.30	60.58	68.20	-7.62	Peak	

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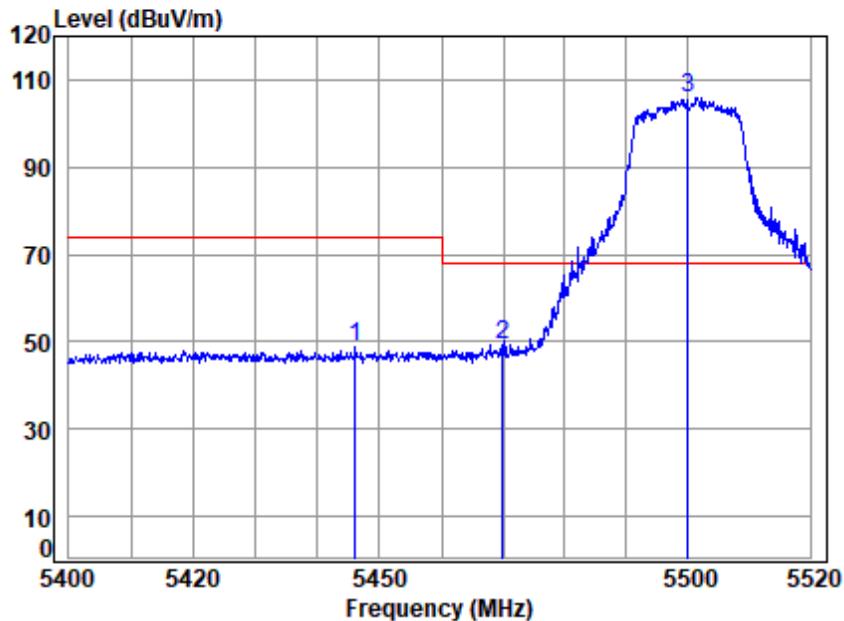
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Test Mode: 16; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5500 Band edge  
Note : 5G WIFI 11N20

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Line dBuV/m	Over Limit dB	Remark
1	5446.127	8.27	32.48	32.23	40.17	48.69	74.00	-25.31	peak	
2	5469.880	8.27	32.53	32.26	40.90	49.44	68.20	-18.76	peak	
3	5500.000	8.27	32.60	32.30	97.34	105.91	68.20	37.71	peak	

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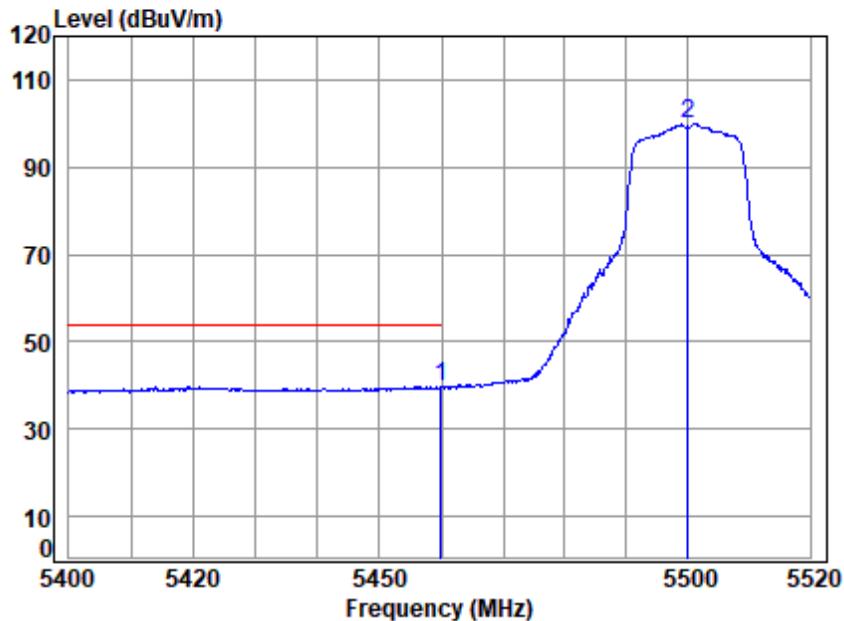
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

Report No.: FYCR221100047605

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5500 Band edge  
Note : 5G WIFI 11N20

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Limit dBuV/m	Over Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5459.910	8.27	32.51	32.25	31.21	39.74	54.00	-14.26	Average
2	5500.000	8.27	32.60	32.30	91.30	99.87	-----	-----	Average

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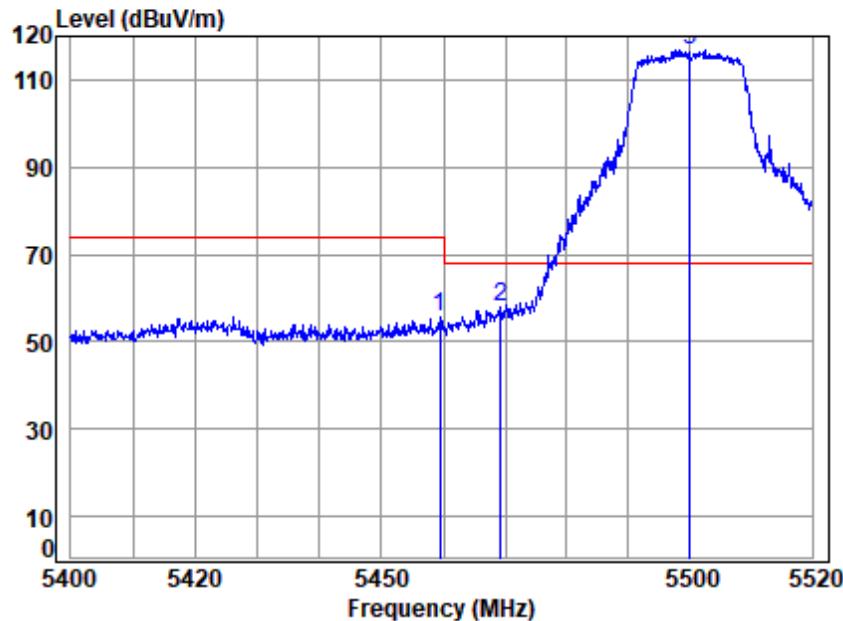
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Test Mode: 16; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5500 Band edge  
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5459.430	8.27	32.51	32.25	47.18	55.71	74.00	-18.29	Peak
2	5469.279	8.27	32.53	32.26	49.39	57.93	68.20	-10.27	peak
3	5500.000	8.27	32.60	32.30	108.12	116.69	68.20	48.49	Peak

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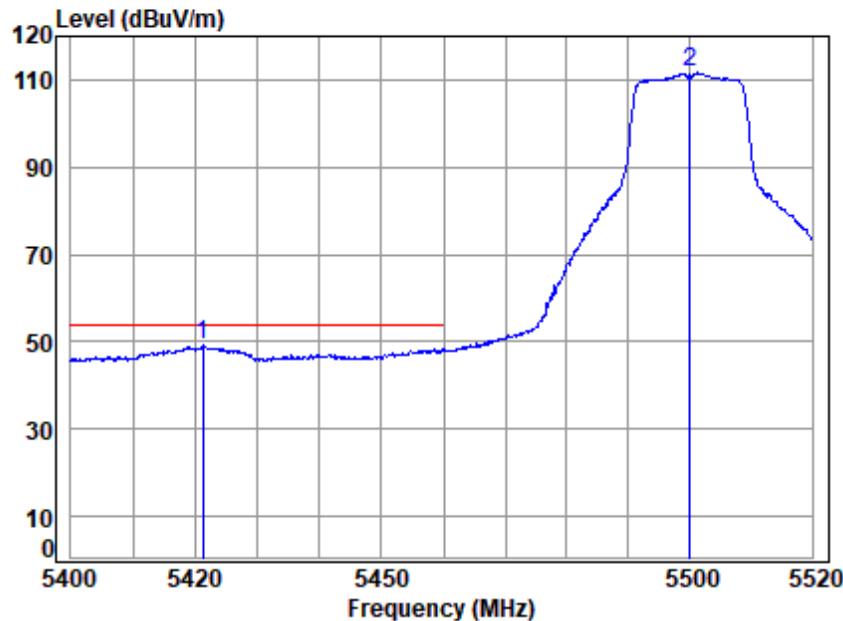
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Test Mode: 16; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5500 Band edge  
Note : 5G WIFI 11N20

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5421.167	8.27	32.42	32.19	40.67	49.17	54.00	-4.83	Average
2	5500.000	8.27	32.60	32.30	103.02	111.59	-----	-----	Average

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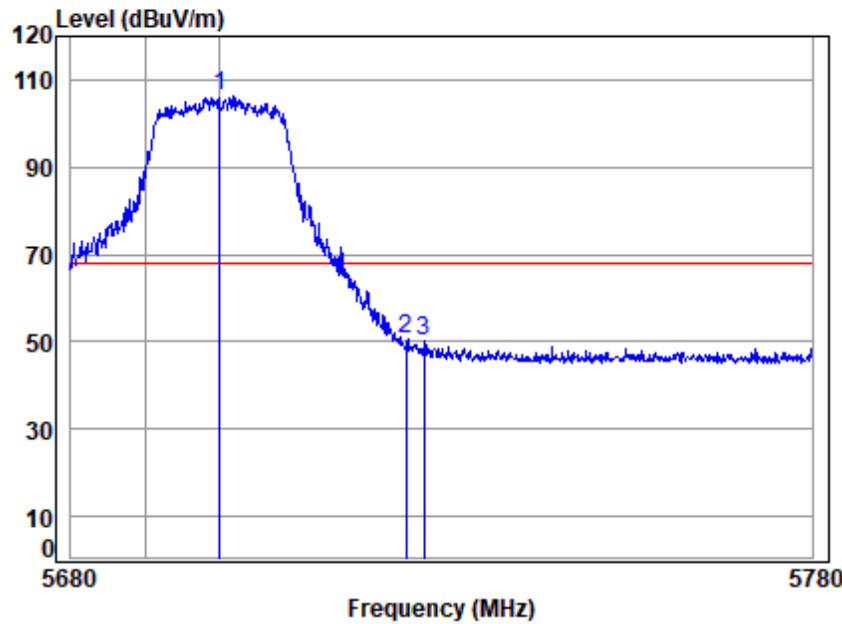
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Test Mode: 16; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5700 Band edge  
Note : 5G WIFI 11N20

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5700.000	8.01	32.52	32.22	97.81	106.12	68.20	37.92	peak
2	5725.000	7.98	32.51	32.21	42.48	50.76	68.20	-17.44	peak
3	5727.382	7.98	32.51	32.21	42.10	50.38	68.20	-17.82	peak



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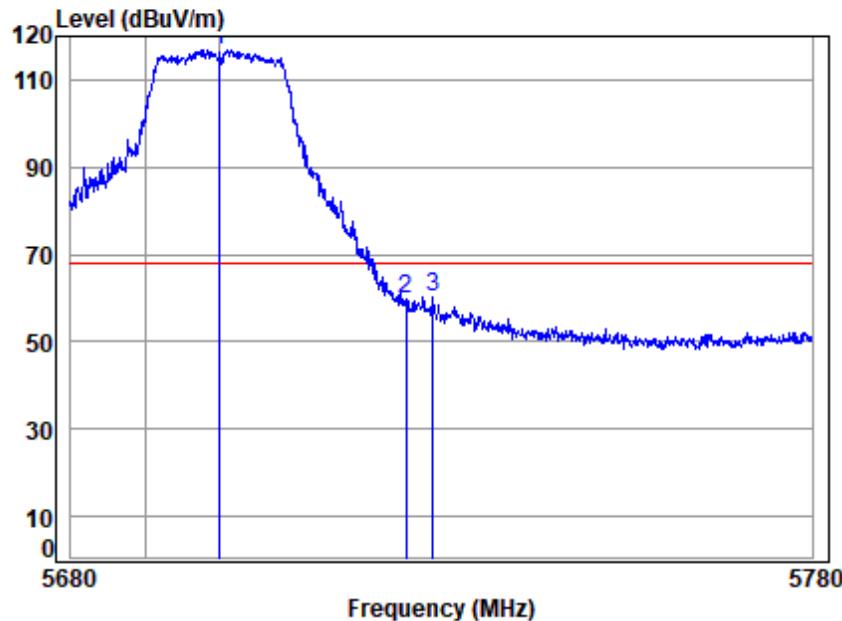
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Test Mode: 16; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5700 Band edge  
Note : 5G WIFI 11N20

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5700.000	8.01	32.52	32.22	108.56	116.87	68.20	48.67	Peak
2	5725.000	7.98	32.51	32.21	51.66	59.94	68.20	-8.26	Peak
3	5728.682	7.98	32.51	32.21	52.14	60.42	68.20	-7.78	Peak

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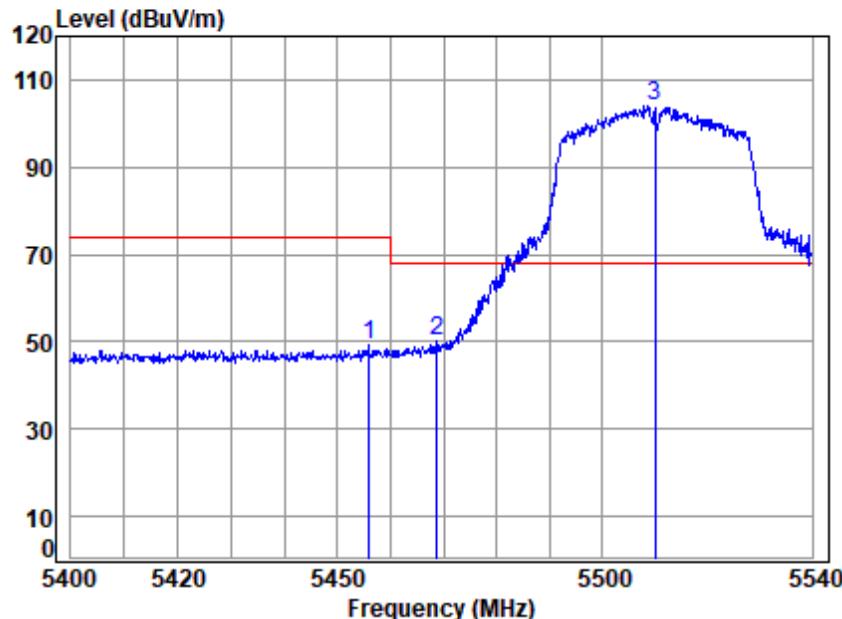
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Test Mode: 16; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5510 Band edge  
Note : 5G WIFI 11N40

		Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5455.850	8.27	32.50	32.24	40.59	49.12	74.00	-24.88	peak
2	5468.712	8.27	32.53	32.26	41.82	50.36	68.20	-17.84	peak
3	5510.000	8.26	32.60	32.30	95.51	104.07	68.20	35.87	peak

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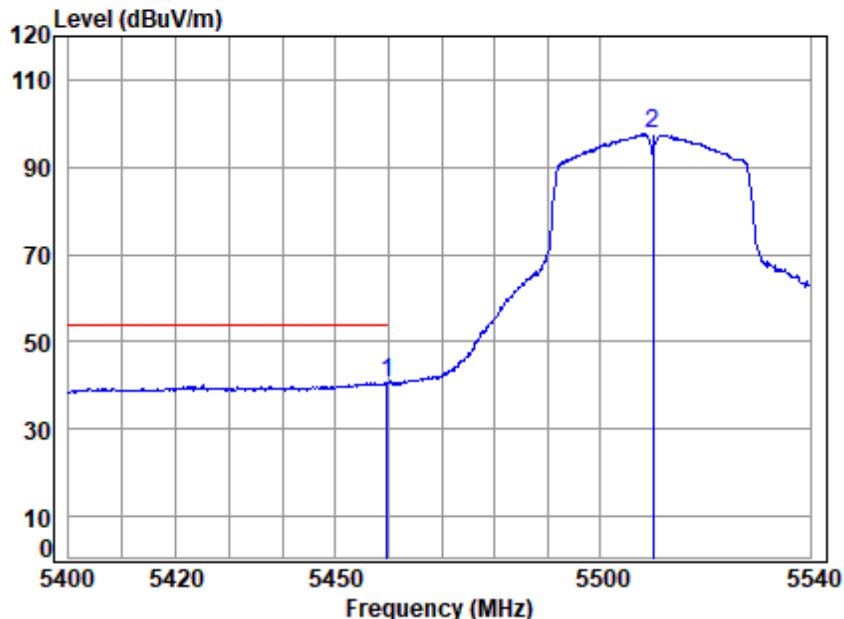
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Test Mode: 16; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5510 Band edge  
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5459.622	8.27	32.51	32.25	32.18	40.71	54.00	-13.29	Average
2	5510.000	8.26	32.60	32.30	89.09	97.65	-----	-----	Average

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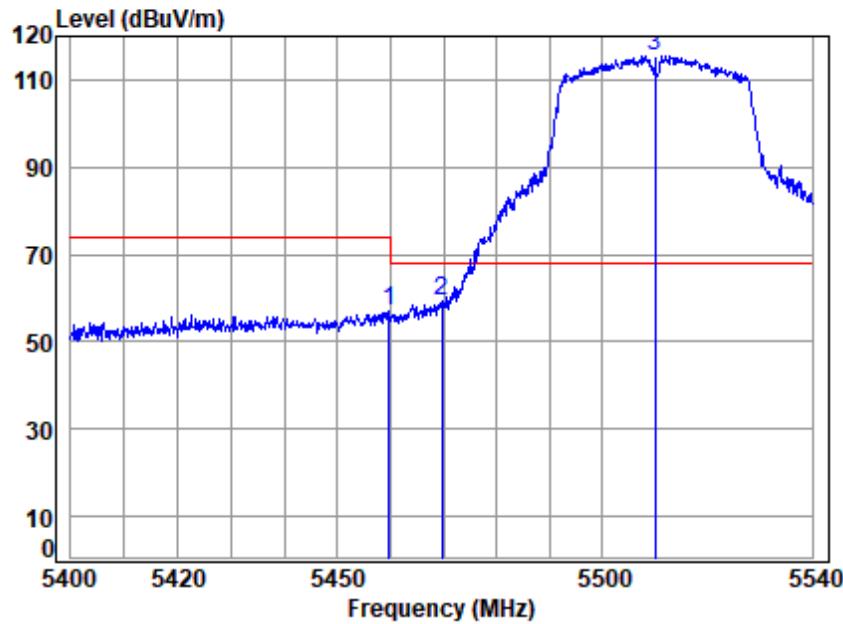
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Test Mode: 16; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5510 Band edge  
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5459.761	8.27	32.51	32.25	48.42	56.95	74.00	-17.05	Peak
2	5469.692	8.27	32.53	32.26	50.78	59.32	68.20	-8.88	peak
3	5510.000	8.26	32.60	32.30	107.09	115.65	68.20	47.45	Peak

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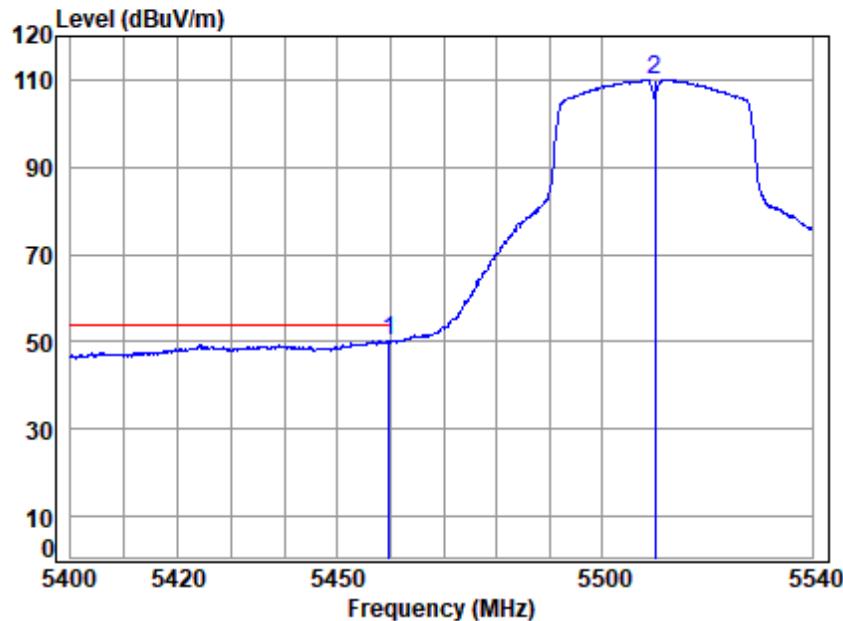
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Test Mode: 16; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5510 Band edge  
Note : 5G WIFI 11N40

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5459.761	8.27	32.51	32.25	41.79	50.32	54.00	-3.68	Average
2	5510.000	8.26	32.60	32.30	101.53	110.09	-----	-----	Average

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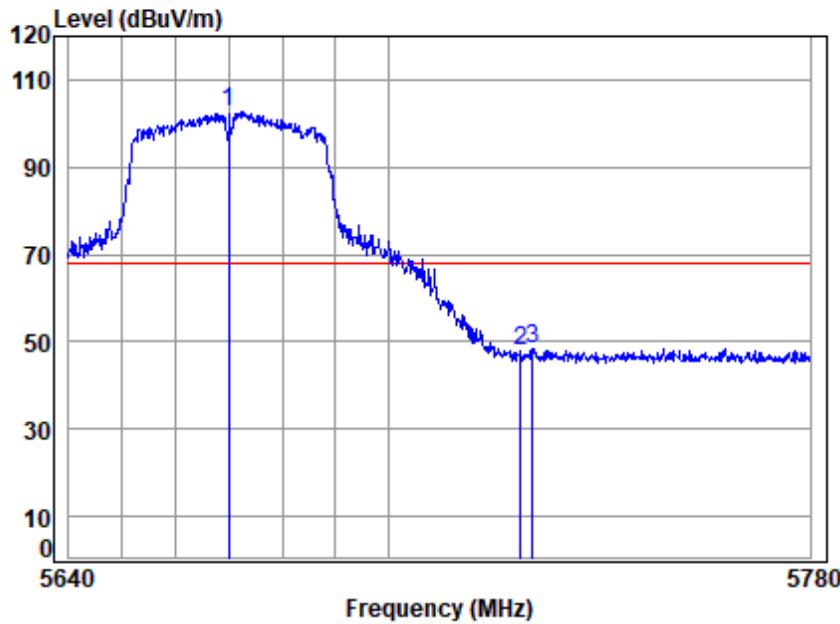
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5670 Band edge  
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5670.000	8.05	32.53	32.23	94.34	102.69	68.20	34.49	peak
2	5725.000	7.98	32.51	32.21	39.61	47.89	68.20	-20.31	peak
3	5727.238	7.98	32.51	32.21	40.30	48.58	68.20	-19.62	peak

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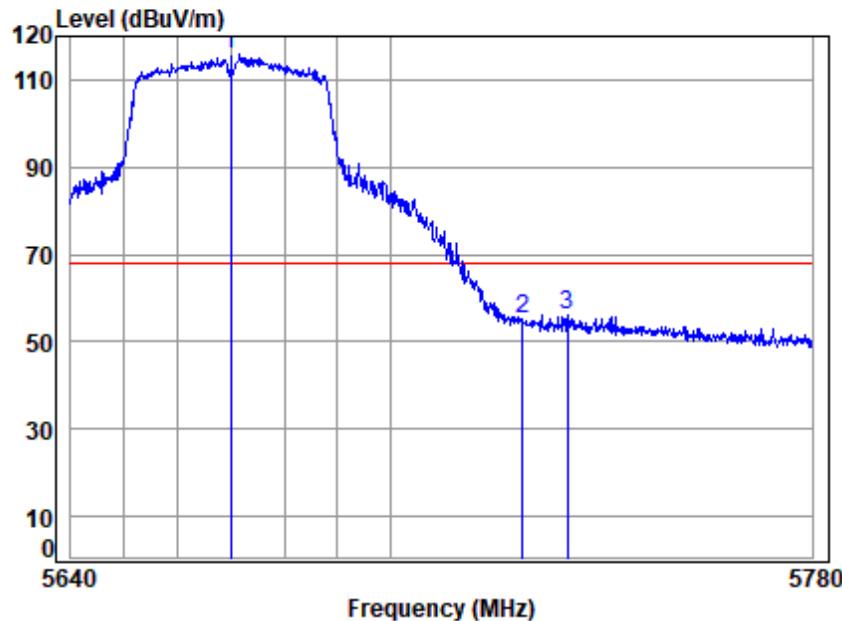
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Test Mode: 16; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5670 Band edge  
Note : 5G WIFI 11N40

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Line dBuV/m	Over Limit dB	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5670.000	8.05	32.53	32.23	107.57	115.92	68.20	47.72	Peak	
2	5725.000	7.98	32.51	32.21	47.04	55.32	68.20	-12.88	Peak	
3	5733.420	7.97	32.50	32.20	47.96	56.23	68.20	-11.97	Peak	

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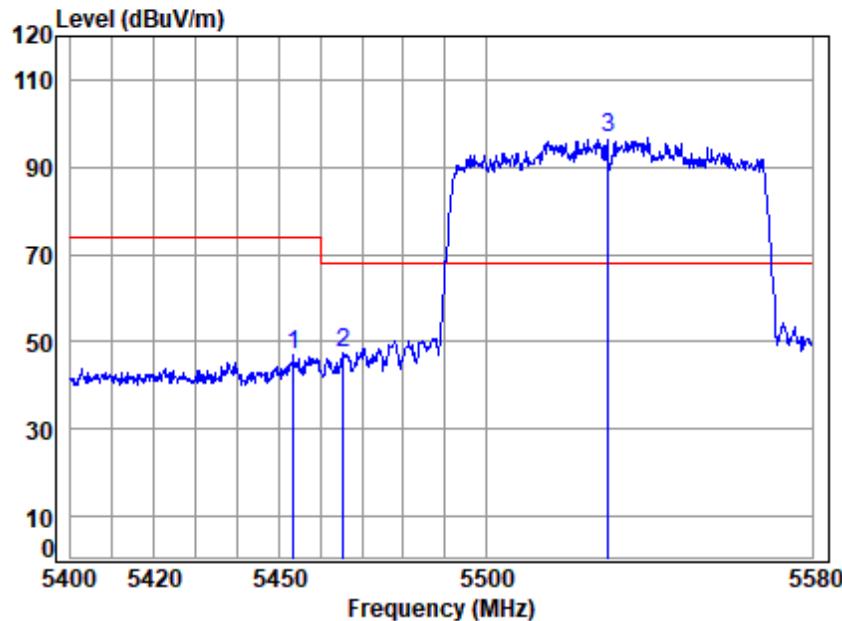
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Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5530 Band edge  
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	5453.382	8.27	32.49	32.24	38.35	46.87	74.00	-27.13	peak
2	5465.555	8.27	32.52	32.25	38.90	47.44	68.20	-20.76	peak
3	5530.000	8.23	32.59	32.29	88.01	96.54	68.20	28.34	peak

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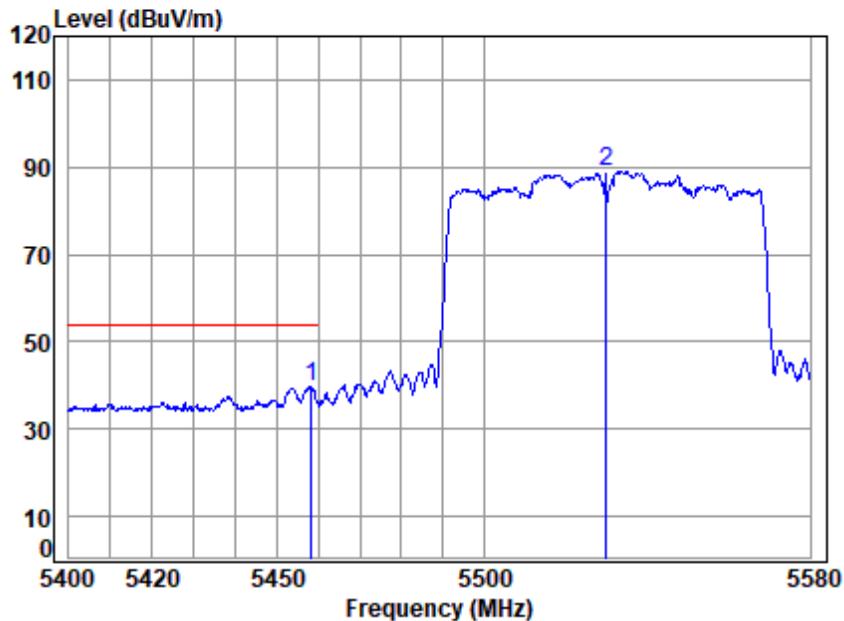
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Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5530 Band edge  
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	5458.212	8.27	32.50	32.24	31.22	39.75	54.00	-14.25	Average
2	5530.000	8.23	32.59	32.29	80.52	89.05	-----	-----	Average

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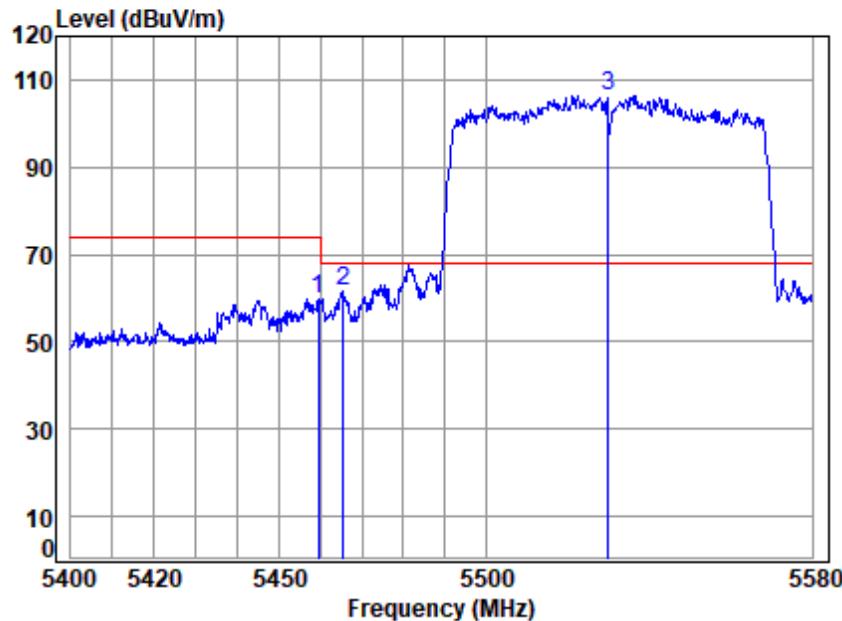
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Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5530 Band edge  
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5459.465	8.27	32.51	32.25	51.41	59.94	74.00	-14.06	Peak
2	5465.375	8.27	32.52	32.25	52.84	61.38	68.20	-6.82	peak
3	5530.000	8.23	32.59	32.29	97.82	106.35	68.20	38.15	Peak

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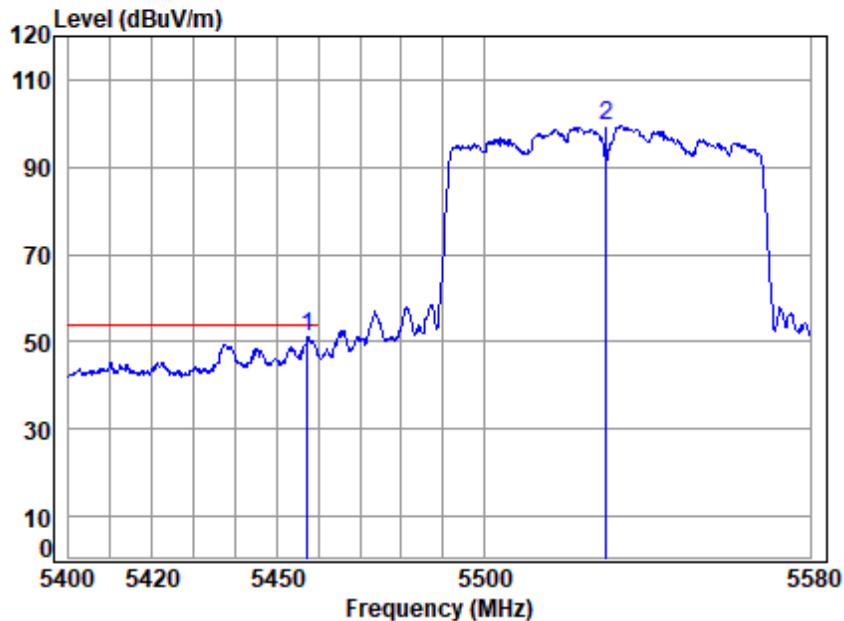
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Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5530 Band edge  
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5457.317	8.27	32.50	32.24	42.47	51.00	54.00	-3.00	Average
2	5530.000	8.23	32.59	32.29	90.89	99.42	-----	-----	Average

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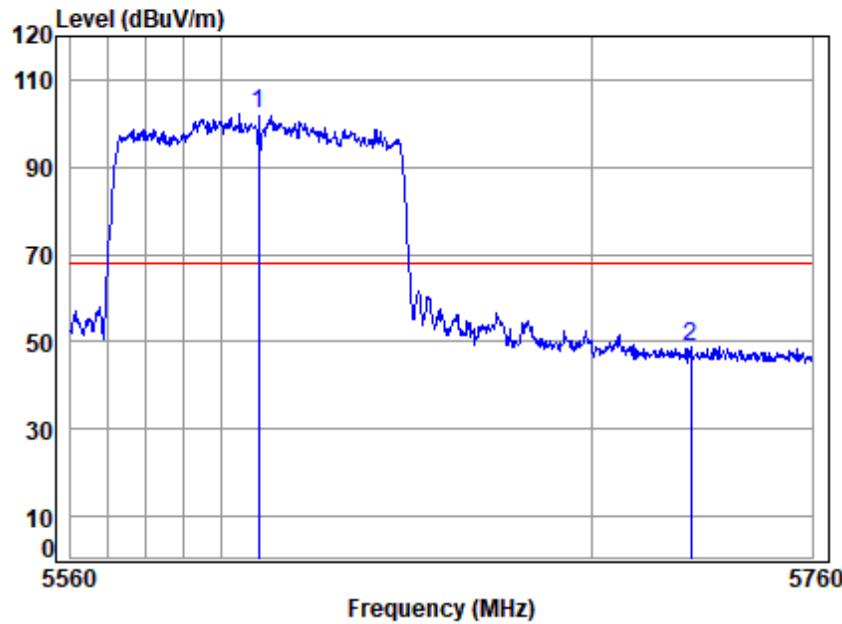
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Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5610 Band edge  
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5610.000	8.13	32.55	32.25	93.69	102.12	68.20	33.92	peak
2	5726.713	7.98	32.51	32.21	40.60	48.88	68.20	-19.32	peak

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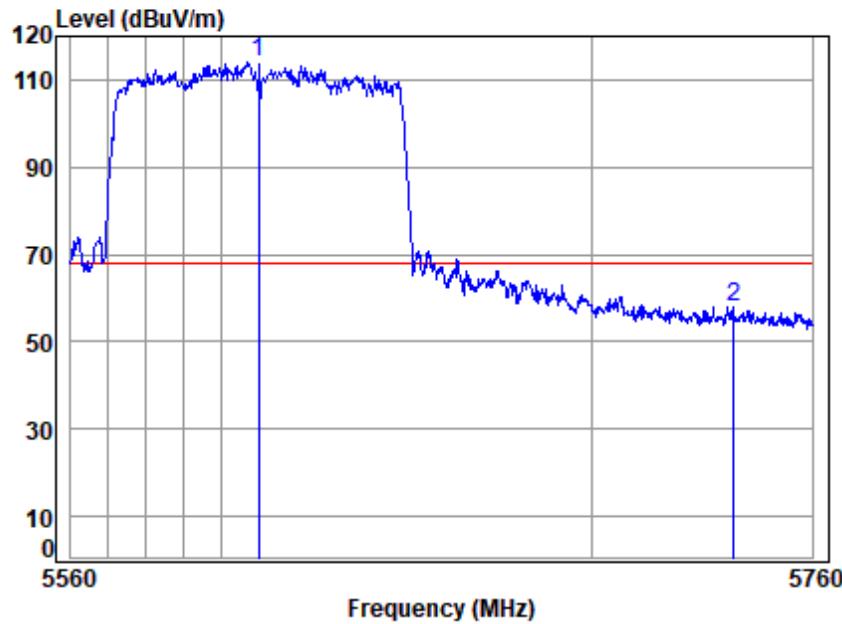
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Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5610 Band edge  
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	
1	5610.000	8.13	32.55	32.25	105.43	113.86	68.20	45.66	Peak
2	5738.463	7.96	32.50	32.20	49.53	57.79	68.20	-10.41	Peak

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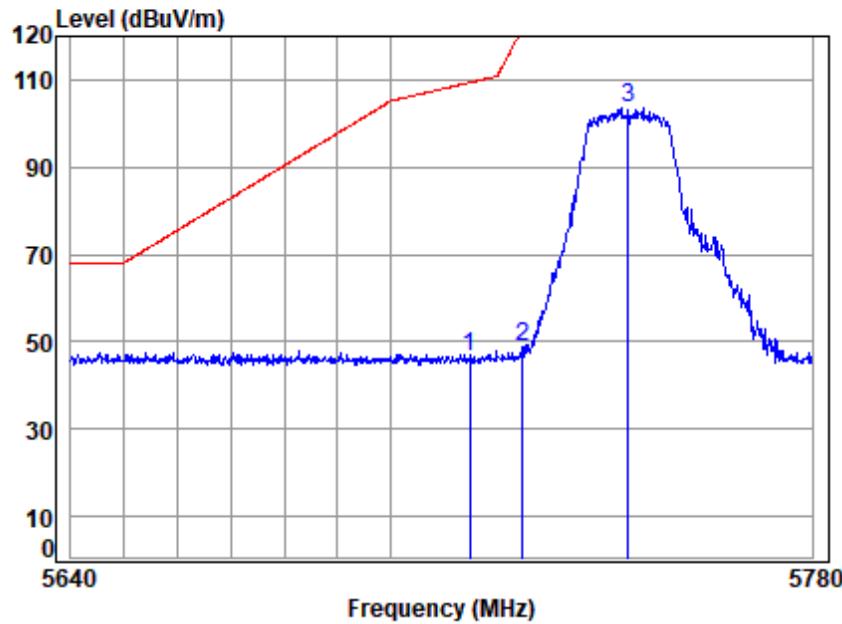
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5745 Band edge  
Note : 5G WIFI 11A

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Line dBuV/m	Over Limit dB	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	7.99	32.51	32.21	38.34	46.63	109.40	-62.77	peak	
2	5725.000	7.98	32.51	32.21	40.39	48.67	122.20	-73.53	peak	
3	5745.000	7.95	32.50	32.20	95.34	103.59	-----	-----	peak	

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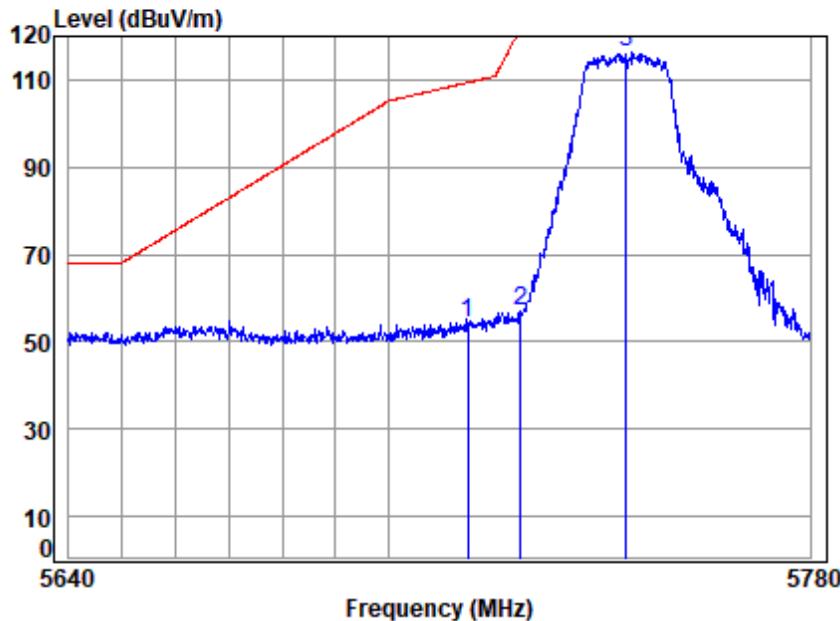
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5745 Band edge  
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	7.99	32.51	32.21	45.98	54.27	109.40	-55.13	peak
2	5725.000	7.98	32.51	32.21	48.94	57.22	122.20	-64.98	peak
3	5745.000	7.95	32.50	32.20	108.00	116.25	-----	-----	peak

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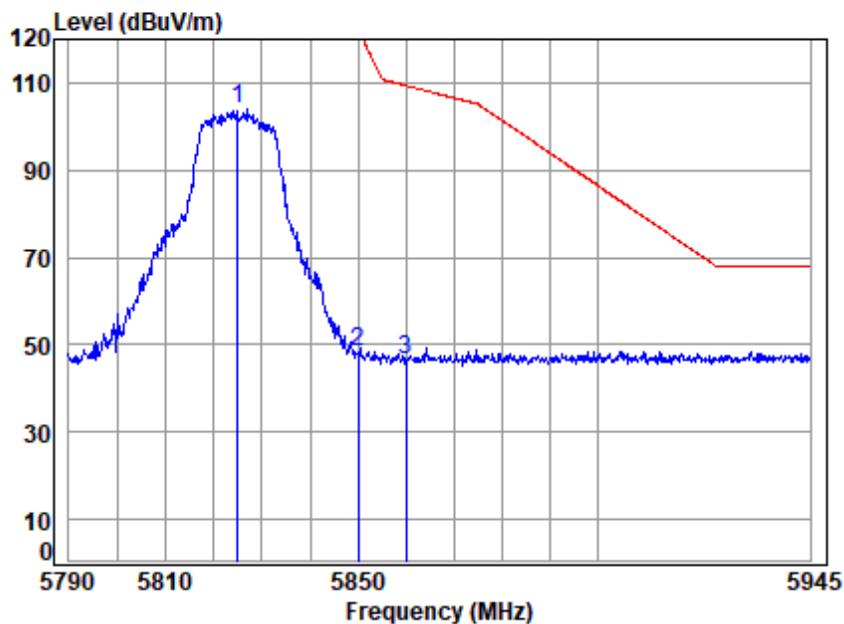
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5825 Band edge  
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	7.85	32.47	32.17	95.71	103.86	-----	-----	peak
2	5850.000	7.82	32.46	32.16	40.37	48.49	122.20	-73.71	peak
3	5860.000	7.81	32.45	32.15	38.33	46.44	109.40	-62.96	peak



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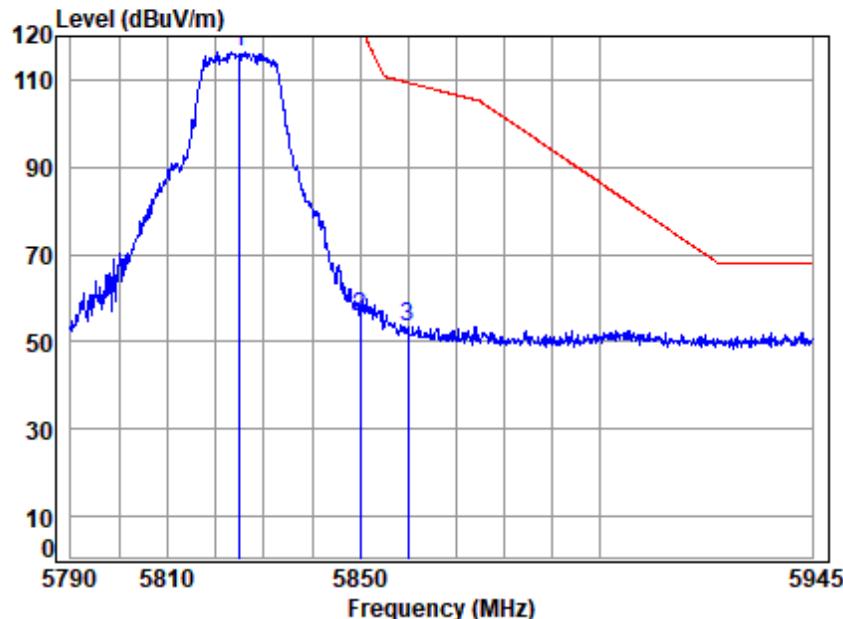
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Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5825 Band edge  
Note : 5G WIFI 11A

		Cable Freq	Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
		MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	7.85	32.47	32.17	108.33	116.48	-----	-----	peak	
2	5850.000	7.82	32.46	32.16	47.61	55.73	122.20	-66.47	peak	
3	5860.000	7.81	32.45	32.15	45.46	53.57	109.40	-55.83	peak	

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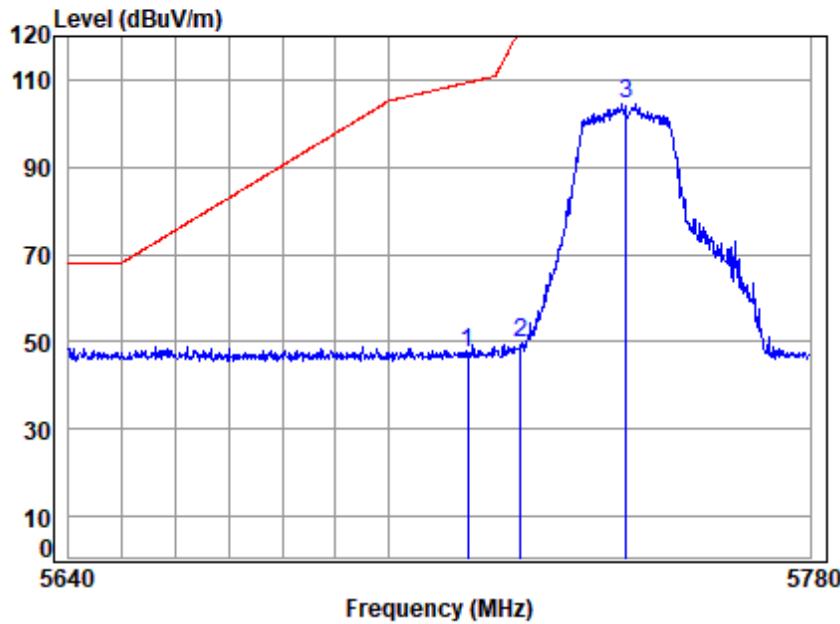
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5745 Band edge  
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	7.99	32.51	32.21	38.95	47.24	109.40	-62.16	peak
2	5725.000	7.98	32.51	32.21	41.41	49.69	122.20	-72.51	peak
3	5745.000	7.95	32.50	32.20	96.29	104.54	-----	-----	peak

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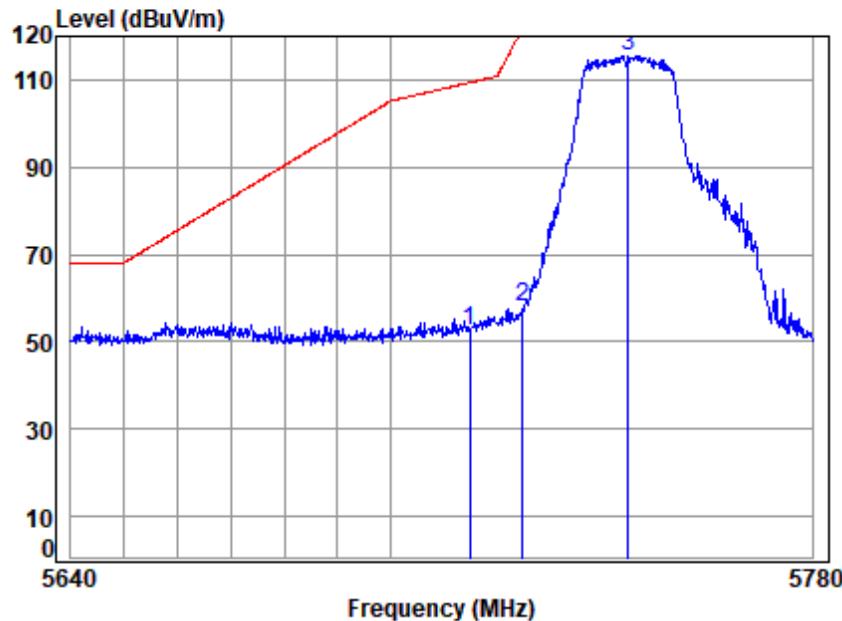
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Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5745 Band edge  
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	7.99	32.51	32.21	44.25	52.54	109.40	-56.86	peak
2	5725.000	7.98	32.51	32.21	49.66	57.94	122.20	-64.26	peak
3	5745.000	7.95	32.50	32.20	107.34	115.59	-----	-----	peak

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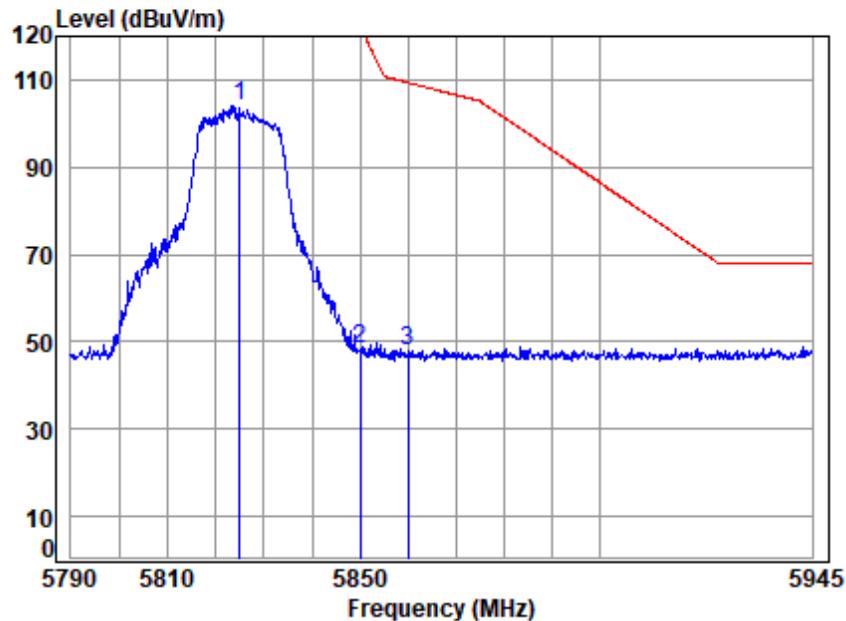
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5825 Band edge  
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	7.85	32.47	32.17	95.88	104.03	-----	-----	peak
2	5850.000	7.82	32.46	32.16	40.11	48.23	122.20	-73.97	peak
3	5860.000	7.81	32.45	32.15	39.95	48.06	109.40	-61.34	peak

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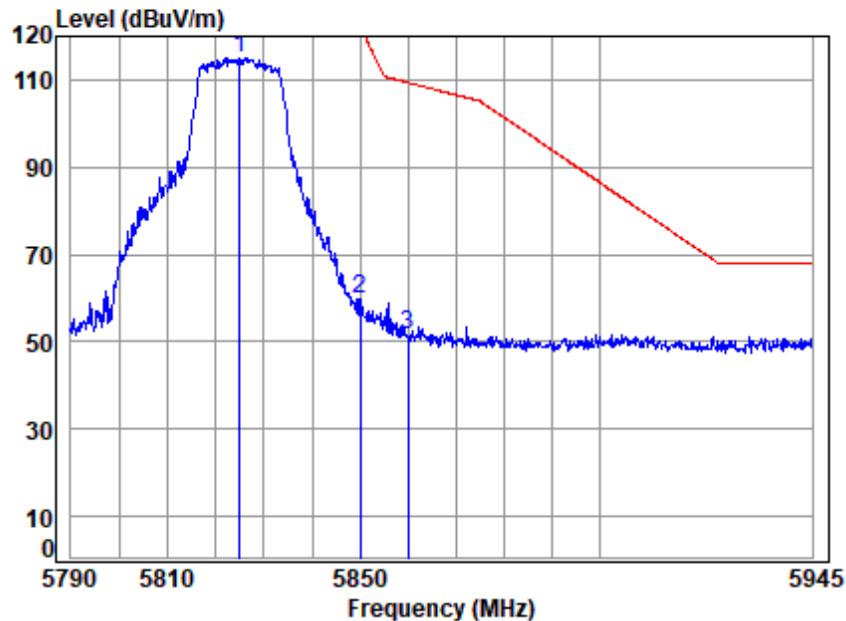
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Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5825 Band edge  
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	7.85	32.47	32.17	106.87	115.02	-----	-----	peak
2	5850.000	7.82	32.46	32.16	51.88	60.00	122.20	-62.20	peak
3	5860.000	7.81	32.45	32.15	43.29	51.40	109.40	-58.00	peak

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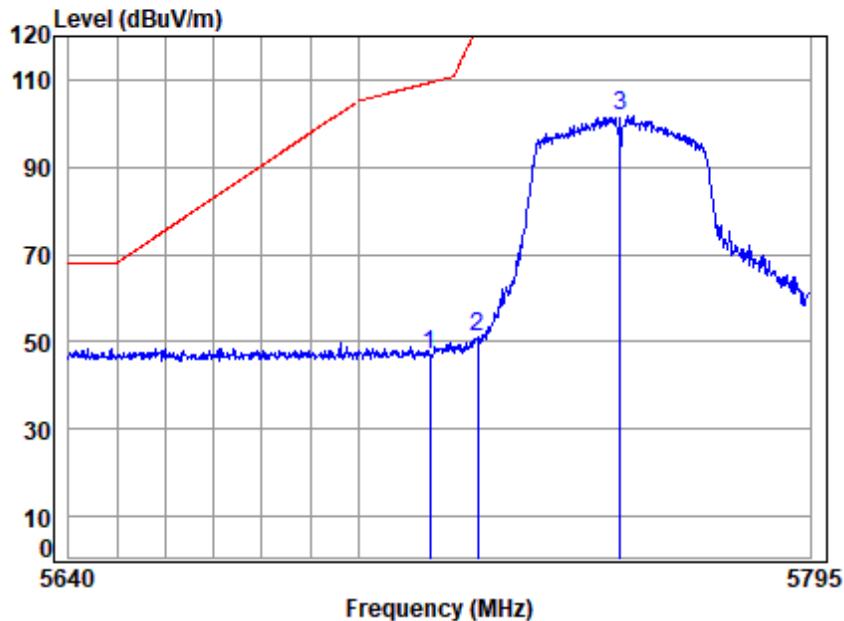
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5755 Band edge  
Note : 5G WIFI 11N40

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Line dBuV/m	Over Limit dB	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	7.99	32.51	32.21	38.62	46.91	109.40	-62.49	peak	
2	5725.000	7.98	32.51	32.21	42.81	51.09	122.20	-71.11	peak	
3	5755.000	7.94	32.50	32.20	93.66	101.90	-----	-----	peak	

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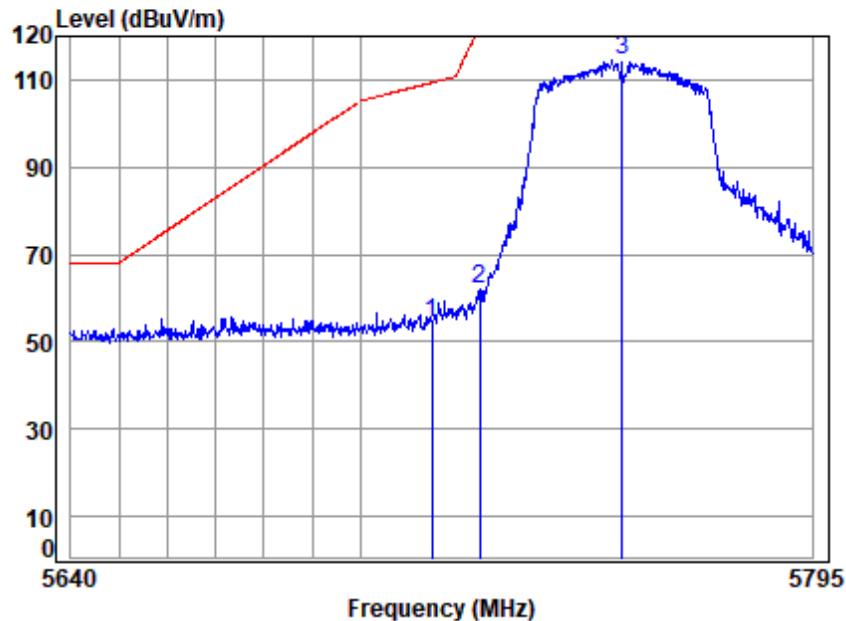
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Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5755 Band edge  
Note : 5G WIFI 11N40

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Line dBuV/m	Over Limit dB	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	7.99	32.51	32.21	45.98	54.27	109.40	-55.13	peak	
2	5725.000	7.98	32.51	32.21	53.55	61.83	122.20	-60.37	peak	
3	5755.000	7.94	32.50	32.20	106.15	114.39	-----	-----	peak	

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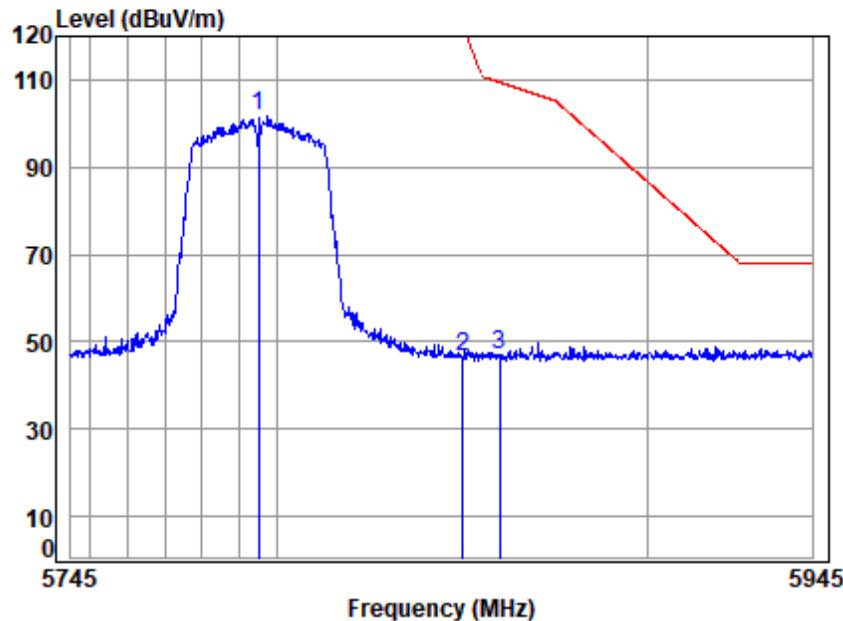
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5795 Band edge  
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.000	7.89	32.48	32.18	93.41	101.60	-----	-----	peak
2	5850.000	7.82	32.46	32.16	38.37	46.49	122.20	-75.71	peak
3	5860.000	7.81	32.45	32.15	39.08	47.19	109.40	-62.21	peak

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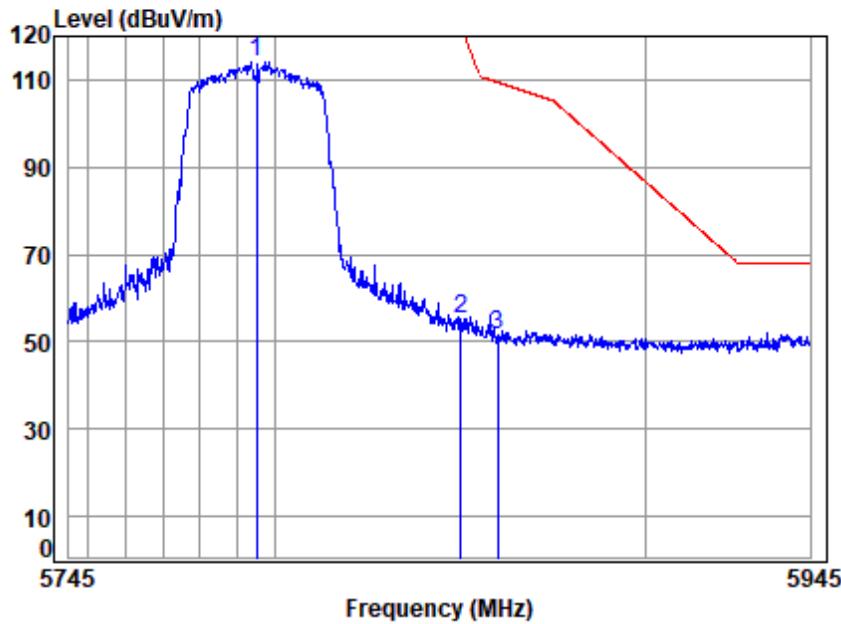
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Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5795 Band edge  
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.000	7.89	32.48	32.18	105.82	114.01	-----	-----	peak
2	5850.000	7.82	32.46	32.16	47.17	55.29	122.20	-66.91	peak
3	5860.000	7.81	32.45	32.15	43.36	51.47	109.40	-57.93	peak

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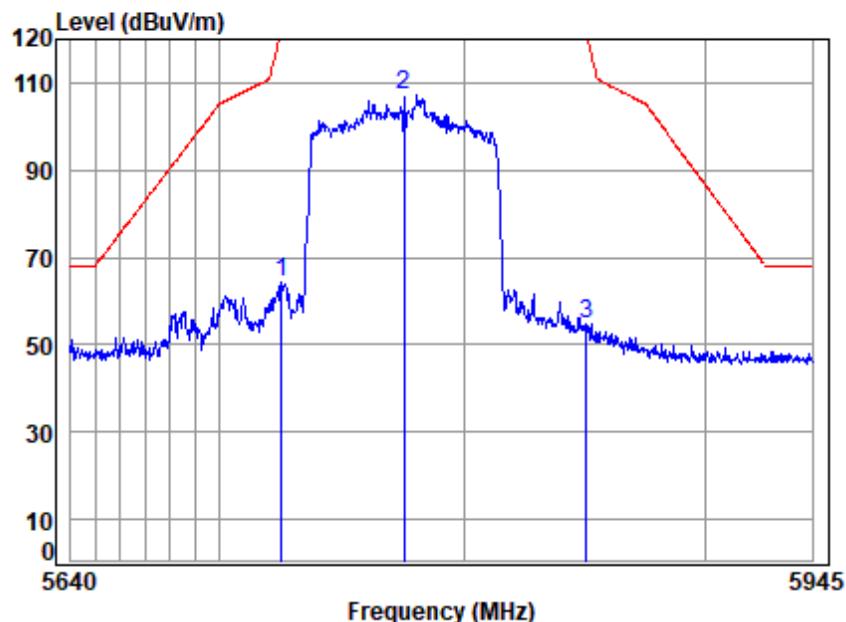
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00476AT  
Mode : 5775 Band edge  
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	5724.993	7.98	32.51	32.21	56.14	64.42	122.18	-57.76	peak
2	5775.000	7.92	32.49	32.19	98.95	107.17	-----	-----	peak
3	5850.575	7.82	32.46	32.16	46.79	54.91	120.89	-65.98	peak

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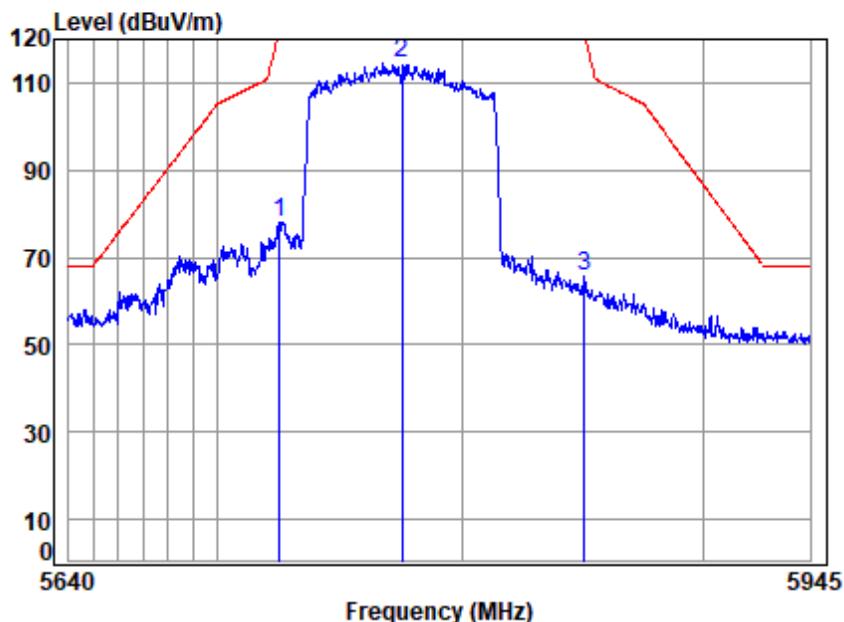
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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00476AT  
Mode : 5775 Band edge  
Note : 5G WIFI 11AC80

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5724.993	7.98	32.51	32.21	69.56	77.84	122.18	-44.34	peak
2	5775.000	7.92	32.49	32.19	106.25	114.47	-----	-----	peak
3	5850.575	7.82	32.46	32.16	57.79	65.91	120.89	-54.98	peak

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**7.10 Frequency Stability**

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

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

**7.10.1 E.U.T. Operation**

Operating Environment:

Temperature: 24.5 °C      Humidity: 52.3 % RH      Atmospheric Pressure: 1020 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(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); final test modes are considering the modulation and worse data rates. Only the data of worst case is

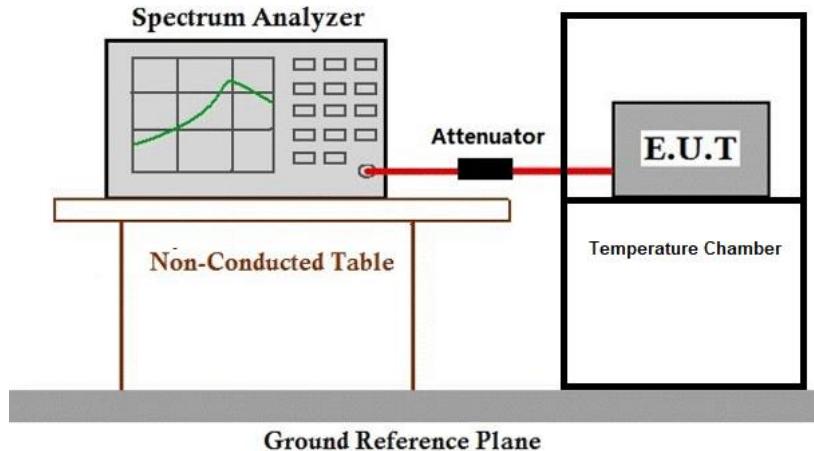
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recorded in the report.

**7.10.3 Test Setup Diagram****7.10.4 Measurement Procedure and Data**

Please Refer to Appendix for Details



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**7.11 Channel Move Time**

Test Requirement      KDB 905462 D02 Section 5.1  
 Test Method:           KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required
<p>Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p>Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.</p> <p>Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p>			

**7.11.1 E.U.T. Operation**

Operating Environment:

Temperature: 24.5 °C      Humidity: 52.3 % RH      Atmospheric Pressure: 1020 mbar



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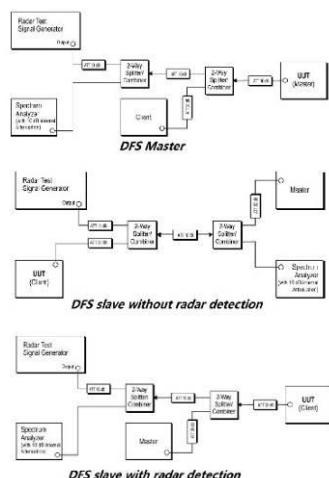
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### 7.11.2 Test Mode Description

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

### 7.11.3 Test Setup Diagram



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**7.11.4 Measurement Procedure and Data**

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

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**7.12 Channel Closing Transmission Time**

Test Requirement      KDB 905462 D02 Section 5.1  
 Test Method:           KDB 905462 D02 Section 7.8.3

Limit:

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

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

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

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

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

Operating Environment:

Temperature: 24.5 °C      Humidity: 52.3 % RH      Atmospheric Pressure: 1020 mbar



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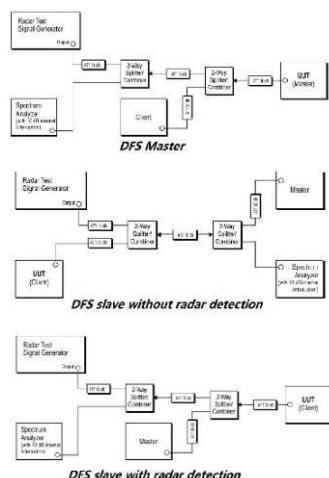
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**7.12.2 Test Mode Description**

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

**7.12.3 Test Setup Diagram**

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**7.12.4 Measurement Procedure and Data**

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

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

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

**7.13.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.2 °C      Humidity: 52.8 % RH      Atmospheric Pressure: 1020 mbar

**7.13.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Pre-scan	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	10	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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