



Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR221100047305

Page: 1 of 344

TEST REPORT

Application No.:	FYCR2211000473AT
Applicant:	Vanstone Electronic (Beijing) Co., Ltd.
Address of Applicant:	3F No.2 Building, Aisino corporation park 18A, Xingshikou Road, Haidian District, Beijing 100195 China
Manufacturer:	Vanstone Electronic (Beijing) Co., Ltd.
Address of Manufacturer:	3F No.2 Building, Aisino corporation park 18A, Xingshikou Road, Haidian District, Beijing 100195 China
Equipment Under Test (EUT):	
EUT Name:	Android Cloud Terminal
Model No.:	A78
FCC ID:	OWL-A78-A
Standard(s) :	47 CFR Part 15, Subpart E 15.407
Date of Receipt:	2022-11-21
Date of Test:	2022-11-22 to 2022-12-17
Date of Issue:	2023-01-17

Test Result:	Pass*
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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

Version	Chapter	Date	Modifier	Remark
01		2023-01-17		Original

Authorized for issue by:

	 _____ Tree Zhan/Project Engineer		
	 _____ Winkey Wang/Reviewer		

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2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Duty Cycle		ANSI C63.10 (2013) Section 12.2	ANSI C63.10 (2013) Section 12.2	Pass
99% Bandwidth		ANSI C63.10 (2013) Section 12.4.2	ANSI C63.10 (2013) Section 12.4.2	Pass
26dB Emission bandwidth		ANSI C63.10 (2013) Section 12.4.1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		ANSI C63.10 (2013) Section 6.9.2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Maximum Conducted output power		ANSI C63.10 (2013) Section 12.3	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		ANSI C63.10 (2013) Section 12.5	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
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)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC3.6V by li-ion battery(5200mAh) Recharge by AC/DC power adapter Adapter M/N:SW-0983 Adapter input: AC100/240V, 50/60Hz, 0.5A Adapter output: DC5V/2A
Cable(s):	USB type C cable: 1m unshielded cable without ferrite core
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) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n(HT20)/ac(HT20): 20MHz 802.11n(HT40)/ac(HT40): 40MHz 802.11ac(HT80): 80MHz
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	PIFA Antenna
Antenna Gain:	U-NII-1: 4.84dBi; U-NII-2A: 4.64dBi; U-NII-2C: 4.92 dBi; U-NII-3: 4.92 dBi

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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.



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
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
Channel Move Time	± 0.8dB
Channel Closing Transmission Time	± 0.8dB
Radiated Emissions (Below 1GHz)	± 3.1dB (Below 1GHz)

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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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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
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

Duty Cycle					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
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

99% Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
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

26dB Emission bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
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

Minimum 6 dB bandwidth (5.725-5.85 GHz band)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
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



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Maximum Conducted output power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	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

Peak Power spectrum density					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
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

Radiated 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
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Coaxial Cable	CCS	N/A	SEM035-02	2022/5/16	2023/5/15
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Radiated Emissions which fall in the restricted bands					
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	2022/4/24	2023/4/23
Coaxial Cable	CCS	N/A	SEM035-03	2022/5/16	2023/5/15
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A



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Frequency Stability					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Radiated 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	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
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
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

Channel Move Time					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
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

Channel Closing Transmission Time					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
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

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Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
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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

Standard Requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the 5150-5250MHz: 4.84dBi; 5250-5350MHz: 4.64dBi; 5350-5725MHz: 4.92dBi; 5725-5850MHz: 4.92dBi

Antenna location: Refer to internal photo.

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6.2 Transmission in the Absence of Data**6.2.1 Test Requirement:**

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details:

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

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7 Radio Spectrum Matter Test Results

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

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

Limit:

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

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar

7.1.2 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.
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

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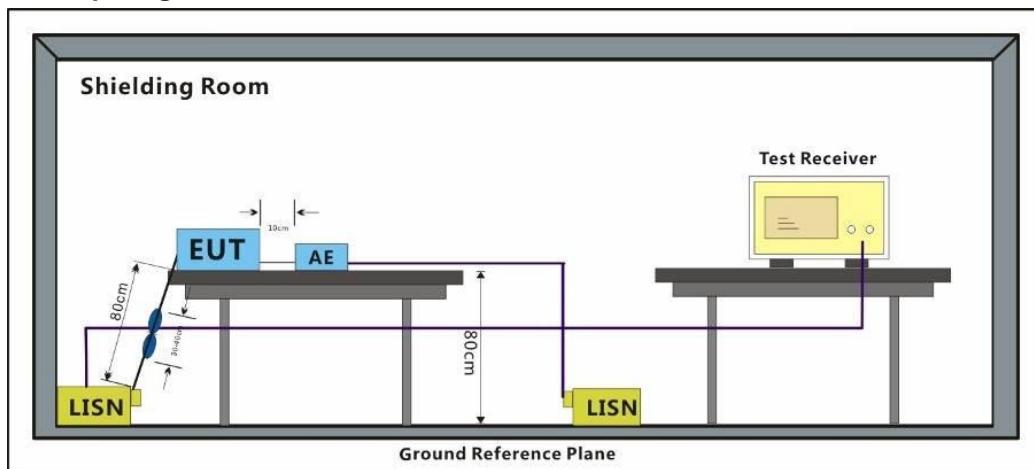
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		modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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.
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.

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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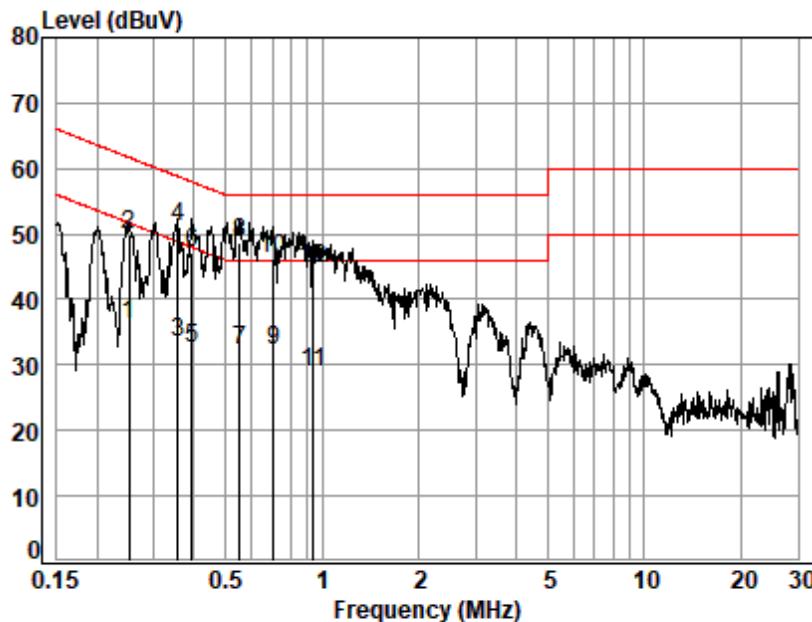
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Test Mode: 09; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 00473AT

Test mode: 09

Freq	Cable	LISN	Read	Limit		Over	Remark
	Freq	Loss	Factor	Level	Level	Line	
	MHz	dB	dB	dBuV	dBuV	dBuV	
1	0.2508	0.03	0.26	35.94	36.23	51.73	-15.50 Average
2	0.2508	0.03	0.26	49.55	49.84	61.73	-11.89 QP
3	0.3558	0.03	0.27	33.30	33.60	48.83	-15.23 Average
4	0.3558	0.03	0.27	50.76	51.06	58.83	-7.77 QP
5	0.3934	0.03	0.27	32.32	32.62	47.99	-15.37 Average
6	0.3934	0.03	0.27	46.95	47.25	57.99	-10.74 QP
7	0.5552	0.03	0.25	32.05	32.33	46.00	-13.67 Average
8	0.5552	0.03	0.25	48.46	48.74	56.00	-7.26 QP
9	0.7047	0.01	0.22	32.07	32.30	46.00	-13.70 Average
10	0.7047	0.01	0.22	45.93	46.16	56.00	-9.84 QP
11	0.9381	0.02	0.20	28.71	28.93	46.00	-17.07 Average
12	0.9381	0.02	0.20	44.55	44.77	56.00	-11.23 QP

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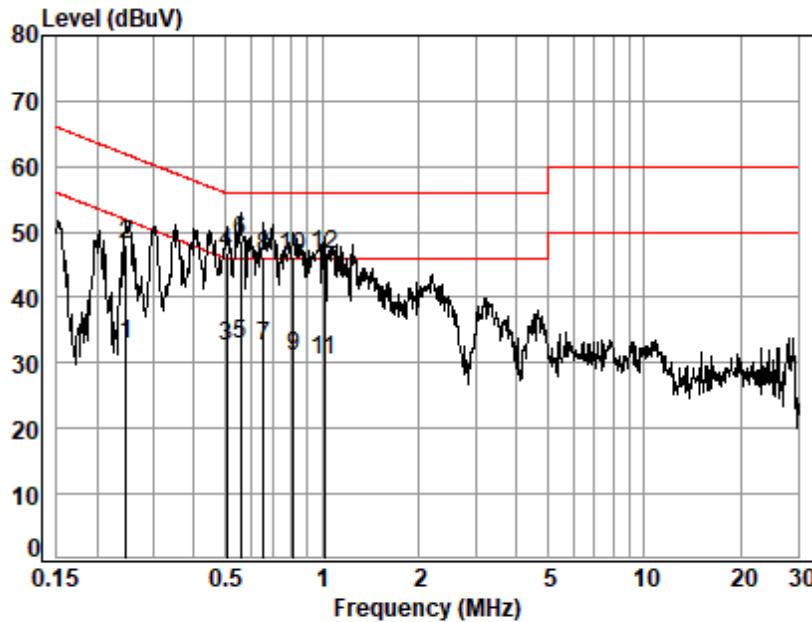
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Test Mode: 09; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 00473AT

Test mode: 09

Freq	Cable	LISN	Read	Limit		Over	Remark
	Loss	Factor	Level	Level	Line	Limit	
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.2468	0.03	0.29	32.39	32.71	51.86	-19.15 Average
2	0.2468	0.03	0.29	47.79	48.11	61.86	-13.75 QP
3	0.5047	0.01	0.27	32.26	32.54	46.00	-13.46 Average
4	0.5047	0.01	0.27	46.69	46.97	56.00	-9.03 QP
5	0.5581	0.03	0.23	32.55	32.81	46.00	-13.19 Average
6	0.5581	0.03	0.23	48.38	48.64	56.00	-7.36 QP
7	0.6578	0.03	0.18	32.37	32.58	46.00	-13.42 Average
8	0.6578	0.03	0.18	45.90	46.11	56.00	-9.89 QP
9	0.8131	0.06	0.12	30.96	31.14	46.00	-14.86 Average
10	0.8131	0.06	0.12	46.16	46.34	56.00	-9.66 QP
11	1.0157	0.03	0.06	30.21	30.30	46.00	-15.70 Average
12	1.0157	0.03	0.06	46.47	46.56	56.00	-9.44 QP

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7.2 Duty Cycle

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 41.6 % 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

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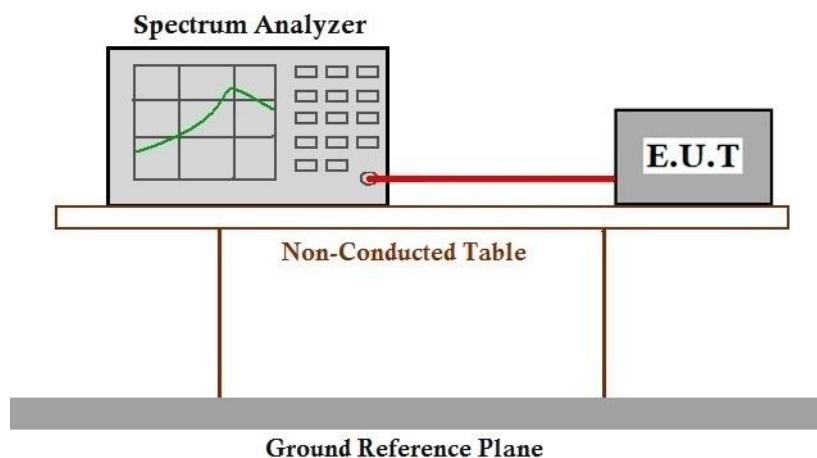
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considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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 ANSI C63.10 (2013) Section 12.4.2

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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 41.6 % 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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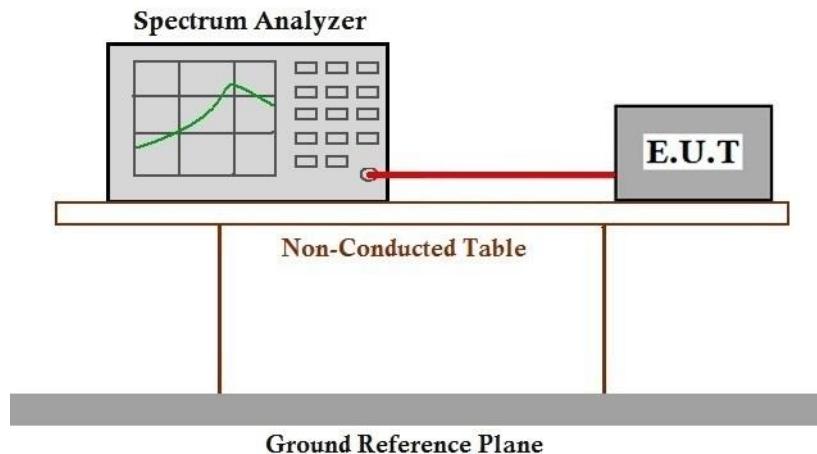
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7.3.3 Test Setup Diagram**7.3.4 Measurement Procedure and Data**

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7.4 26dB Emission bandwidth

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

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 41.6 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

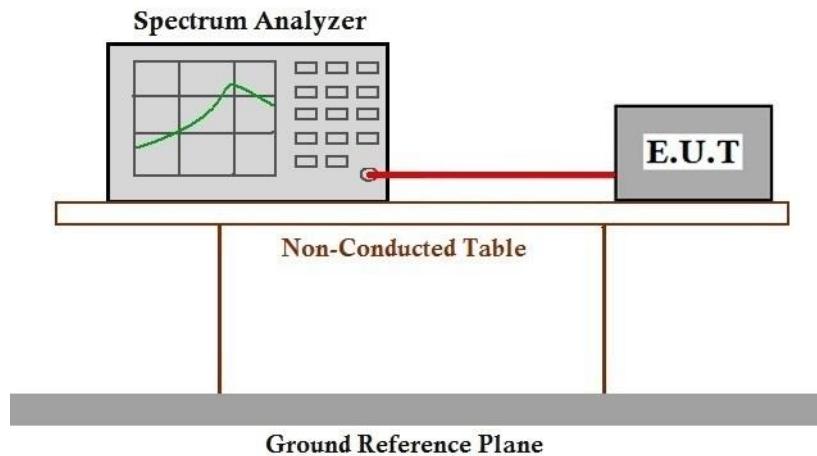
Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst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

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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 (a)

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

Limit:

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

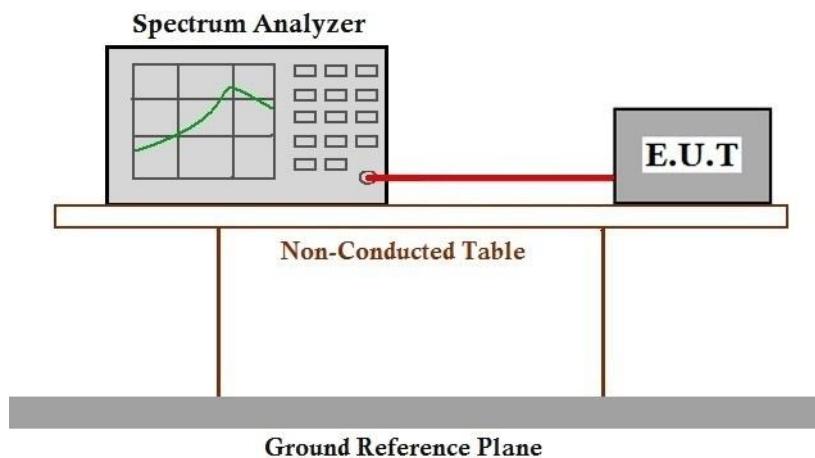
7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 41.6 % 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**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: ANSI C63.10 (2013) Section 12.3

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: 24.7 °C Humidity: 41.6 % 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 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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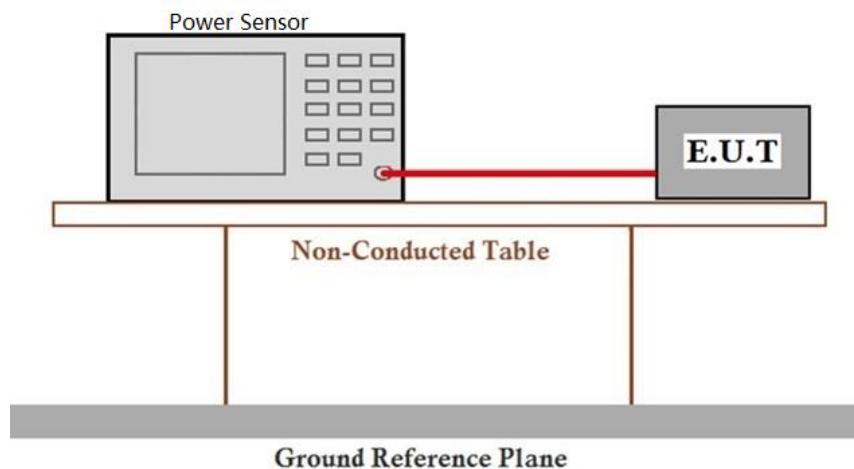
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		modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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.

7.6.3 Test Setup Diagram**7.6.4 Measurement Procedure and Data**

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: ANSI C63.10 (2013) Section 12.5

Limit:

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 41.6 % 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 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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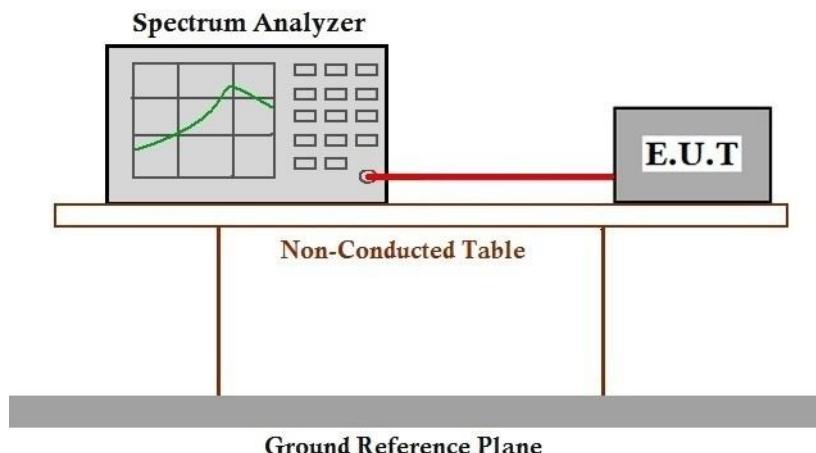
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		IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation 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 & Subpart E 15.407(b)

Test Method: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
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: 24.7 °C

Humidity: 45 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE



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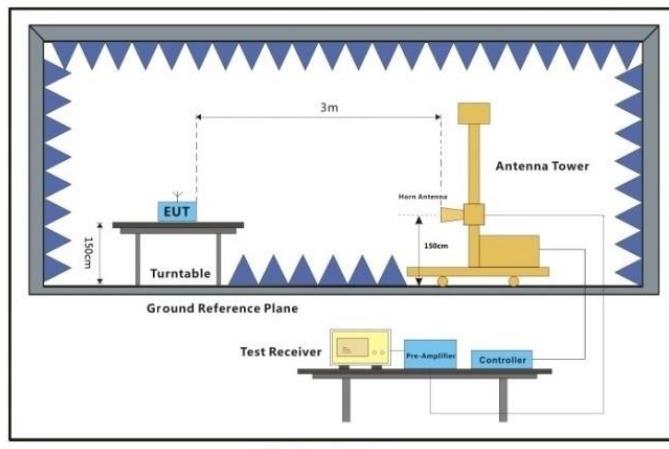
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		802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded 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.

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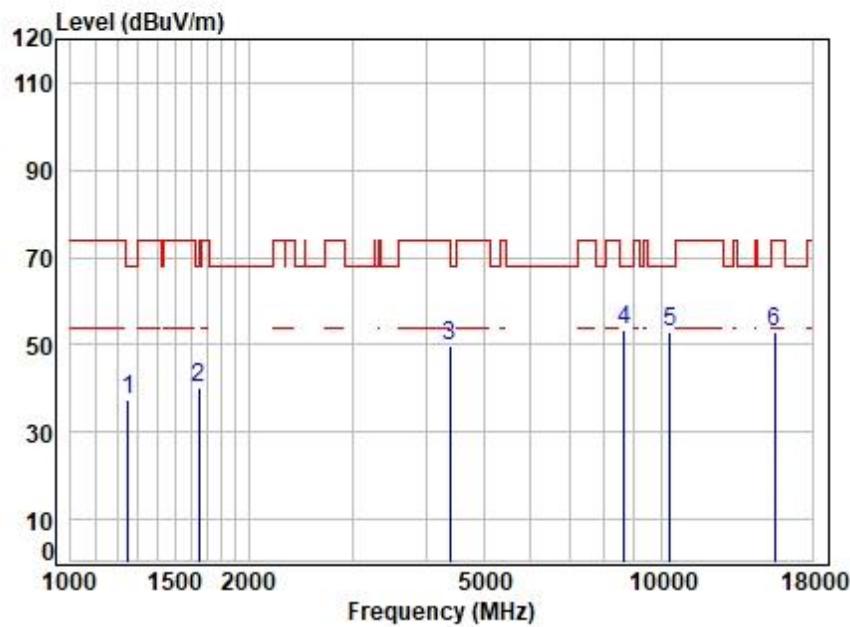
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5180 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 1249.269	3.26	24.27	52.69	62.36	37.20	68.20	-31.00	peak
2 1648.778	4.09	24.90	52.93	64.24	40.30	68.20	-27.90	peak
3 4392.376	7.47	30.06	52.93	65.21	49.81	74.00	-24.19	peak
4 8663.404	10.03	36.13	54.01	61.08	53.23	68.20	-14.97	peak
5 10360.000	11.08	38.85	53.35	56.37	52.95	68.20	-15.25	peak
6 15540.000	13.49	39.74	53.43	53.10	52.90	74.00	-21.10	peak

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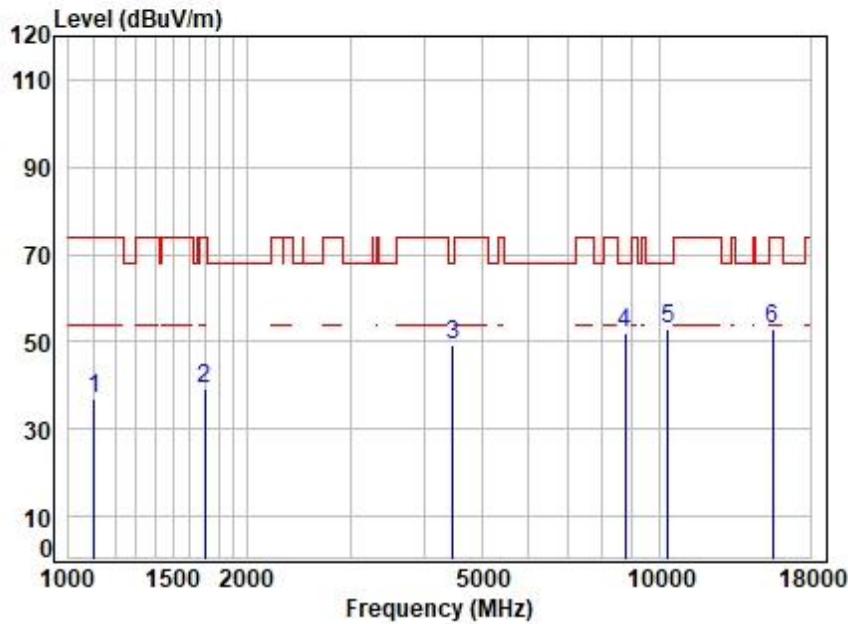
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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
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 1103.264	2.91	24.21	52.59	62.50	37.03	74.00	-36.97 peak
2 1702.042	4.20	25.01	52.96	63.03	39.28	74.00	-34.72 peak
3 4469.214	7.47	30.16	52.95	64.54	49.22	68.20	-18.98 peak
4 8738.852	10.19	36.12	54.05	59.73	51.99	68.20	-16.21 peak
5 10360.000	11.08	38.85	53.35	56.55	53.13	68.20	-15.07 peak
6 15540.000	13.49	39.74	53.43	53.16	52.96	74.00	-21.04 peak

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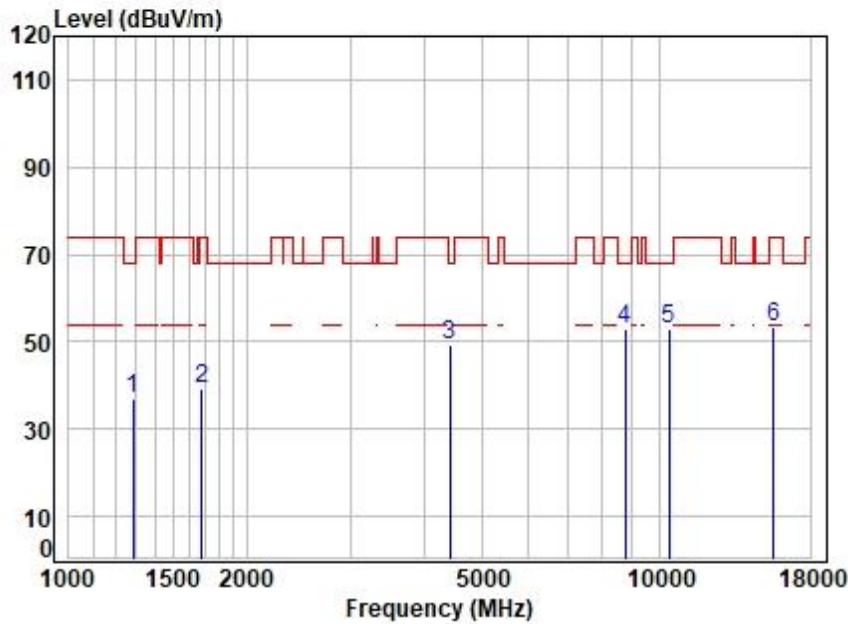
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5200 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 1285.904	3.34	24.26	52.72	62.06	36.94	68.20	-31.26	peak
2 1682.477	4.16	24.97	52.95	63.13	39.31	74.00	-34.69	peak
3 4417.841	7.47	30.09	52.93	64.53	49.16	68.20	-19.04	peak
4 8738.852	10.19	36.12	54.05	60.53	52.79	68.20	-15.41	peak
5 10400.000	11.07	38.89	53.36	56.35	52.95	68.20	-15.25	peak
6 15600.000	13.50	39.53	53.40	53.62	53.25	74.00	-20.75	peak

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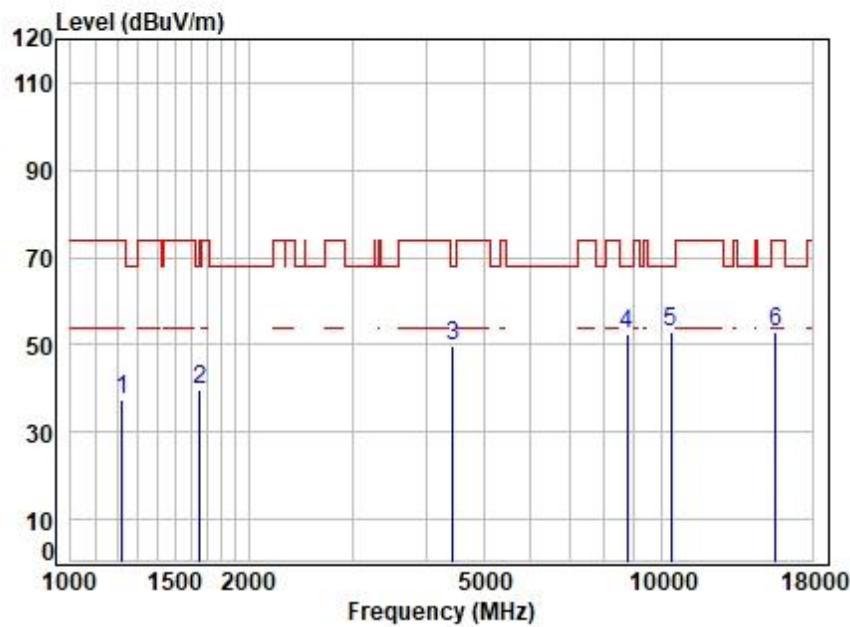
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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
Mode : 5200 TX RSE
Note : 5G WIFI 11A

Freq MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBuV	Limit Level dBuV/m	Line Limit dBuV/m	Over Limit dB	Over Remark
1 1220.714	3.20	24.29	52.67	62.58	37.40	74.00	-36.60	peak
2 1653.550	4.10	24.91	52.94	63.83	39.90	68.20	-28.30	peak
3 4430.628	7.47	30.11	52.94	64.97	49.61	68.20	-18.59	peak
4 8764.146	10.25	36.12	54.06	60.35	52.66	68.20	-15.54	peak
5 10400.000	11.07	38.89	53.36	56.52	53.12	68.20	-15.08	peak
6 15600.000	13.50	39.53	53.40	53.19	52.82	74.00	-21.18	peak

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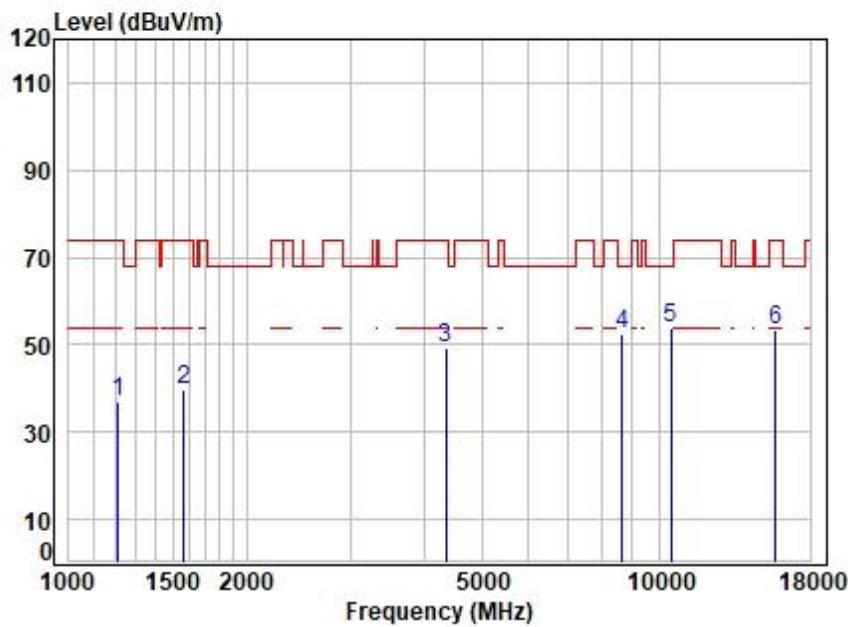
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5240 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 1213.677	3.18	24.29	52.67	61.98	36.78	74.00	-37.22	peak	
2 1569.721	3.92	24.71	52.89	64.11	39.85	74.00	-34.15	peak	
3 4354.454	7.48	30.00	52.91	64.88	49.45	74.00	-24.55	peak	
4 8663.404	10.03	36.13	54.01	60.13	52.28	68.20	-15.92	peak	
5 10480.000	11.06	38.99	53.40	56.99	53.64	68.20	-14.56	peak	
6 15720.000	13.50	39.13	53.34	53.87	53.16	74.00	-20.84	peak	

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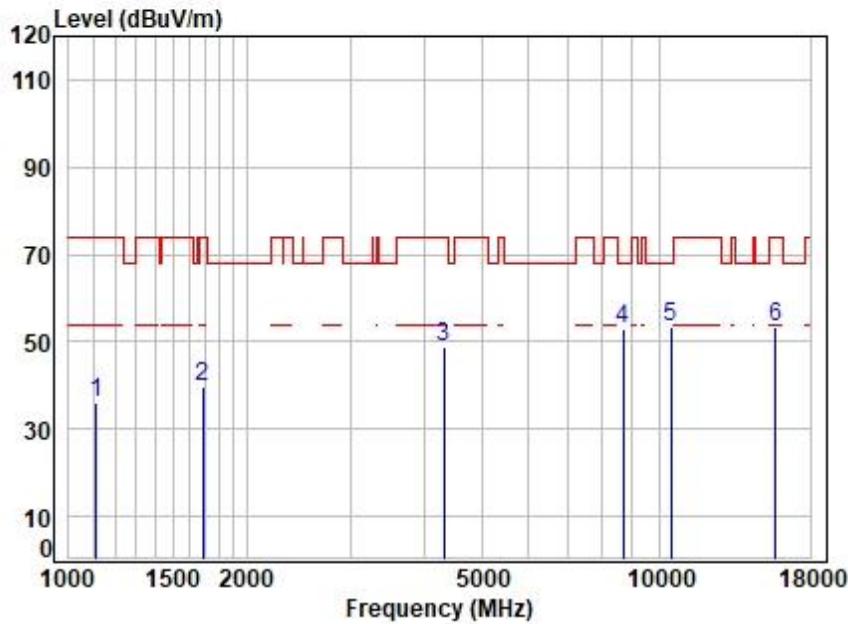
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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
Mode : 5240 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 1112.872	2.94	24.22	52.59	61.54	36.11	74.00	-37.89	peak
2 1687.347	4.17	24.98	52.95	63.38	39.58	74.00	-34.42	peak
3 4316.859	7.48	29.95	52.90	64.51	49.04	74.00	-24.96	peak
4 8688.480	10.08	36.13	54.02	60.90	53.09	68.20	-15.11	peak
5 10480.000	11.06	38.99	53.40	56.61	53.26	68.20	-14.94	peak
6 15720.000	13.50	39.13	53.34	53.90	53.19	74.00	-20.81	peak

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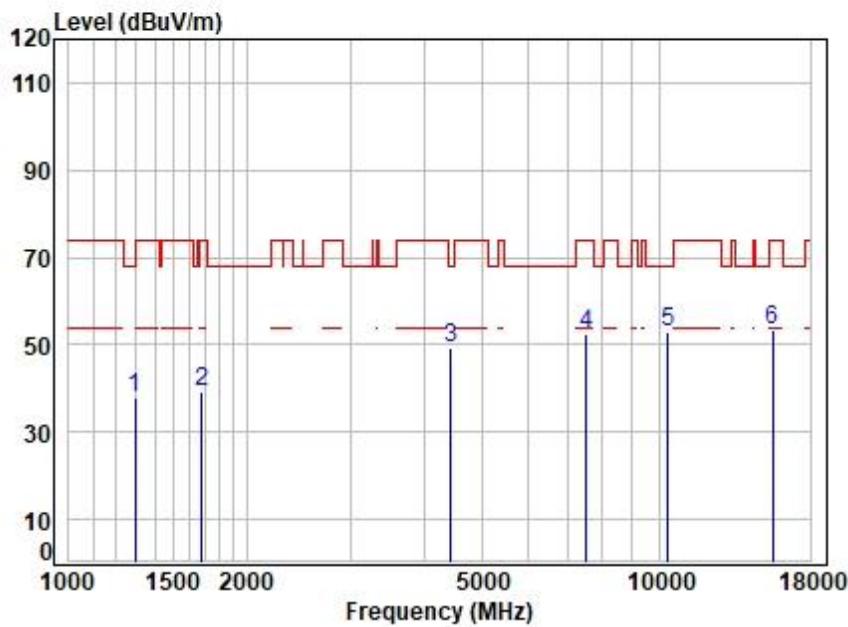
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR221100047305

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5180 TX RSE
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
MHz									
1	1297.103	3.36	24.25	52.73	63.01	37.89	68.20	-30.31	peak
2	1677.621	4.15	24.96	52.95	63.25	39.41	74.00	-34.59	peak
3	4430.628	7.47	30.11	52.94	64.62	49.26	68.20	-18.94	peak
4	7519.349	8.47	36.39	53.55	61.10	52.41	74.00	-21.59	peak
5	10360.000	11.08	38.85	53.35	56.15	52.73	68.20	-15.47	peak
6	15540.000	13.49	39.74	53.43	53.76	53.56	74.00	-20.44	peak

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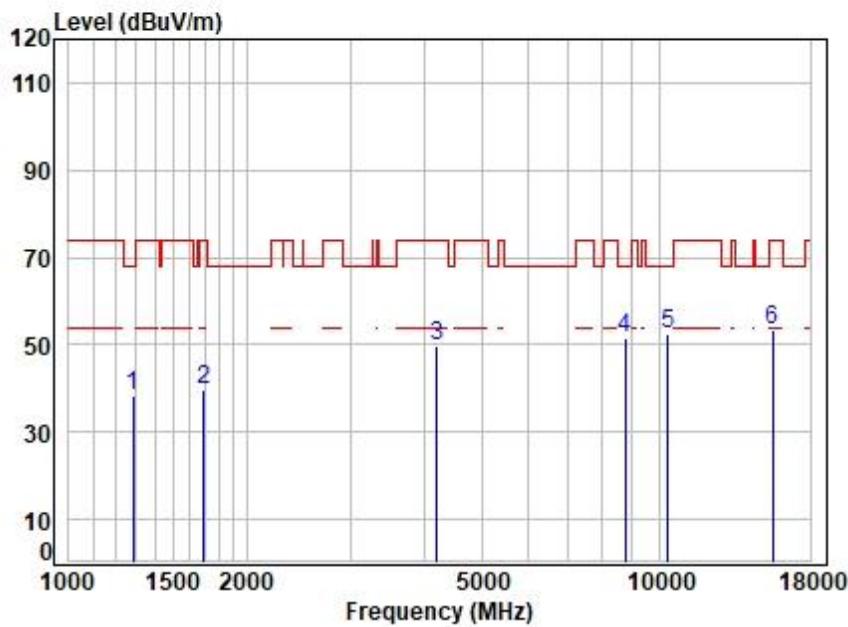
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Report No.: FYCR221100047305

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
Mode : 5180 TX RSE
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over	Remark	
								MHz	dB
1	1285.904	3.34	24.26	52.72	63.39	38.27	68.20	-29.93	peak
2	1692.231	4.18	24.99	52.96	63.52	39.73	74.00	-34.27	peak
3	4193.872	7.48	29.78	52.86	65.15	49.55	74.00	-24.45	peak
4	8764.146	10.25	36.12	54.06	59.40	51.71	68.20	-16.49	peak
5	10360.000	11.08	38.85	53.35	56.00	52.58	68.20	-15.62	peak
6	15540.000	13.49	39.74	53.43	53.48	53.28	74.00	-20.72	peak

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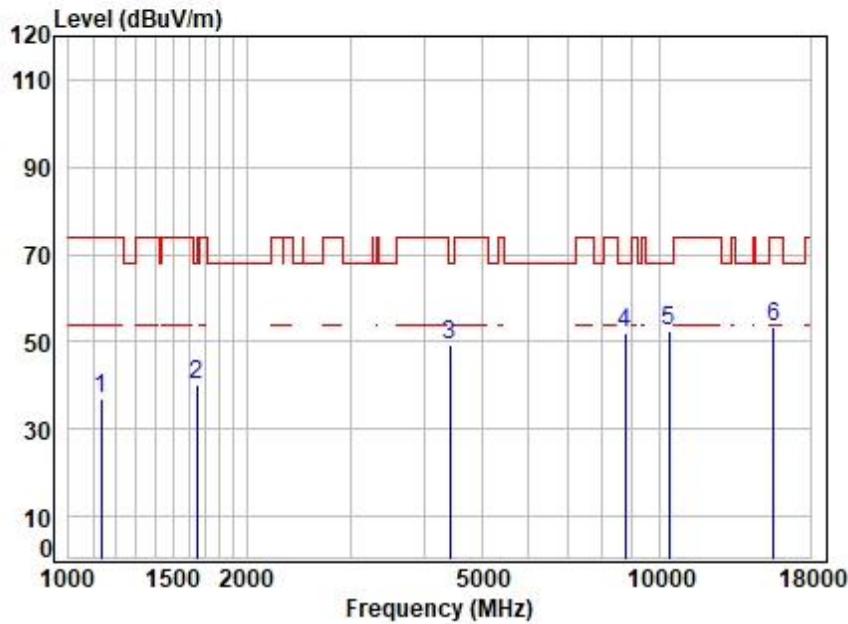
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Report No.: FYCR221100047305

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5200 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 1135.617	2.99	24.24	52.61	62.30	36.92	74.00	-37.08 peak
2 1648.778	4.09	24.90	52.93	64.05	40.11	68.20	-28.09 peak
3 4417.841	7.47	30.09	52.93	64.80	49.43	68.20	-18.77 peak
4 8764.146	10.25	36.12	54.06	59.82	52.13	68.20	-16.07 peak
5 10400.000	11.07	38.89	53.36	55.96	52.56	68.20	-15.64 peak
6 15600.000	13.50	39.53	53.40	53.83	53.46	74.00	-20.54 peak

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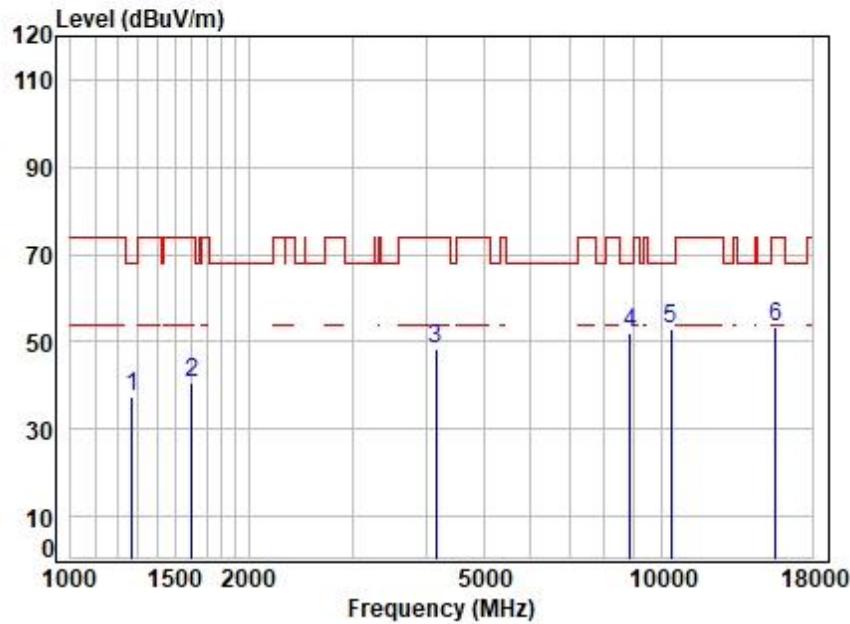
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Report No.: FYCR221100047305

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
Mode : 5200 TX RSE
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
1	1271.123	3.31	24.26	52.71	62.46	37.32	68.20	-30.88	peak
2	1606.441	4.00	24.81	52.91	64.72	40.62	74.00	-33.38	peak
3	4145.664	7.48	29.71	52.85	64.14	48.48	74.00	-25.52	peak
4	8866.062	10.47	36.11	54.12	59.60	52.06	68.20	-16.14	peak
5	10400.000	11.07	38.89	53.36	56.48	53.08	68.20	-15.12	peak
6	15600.000	13.50	39.53	53.40	53.78	53.41	74.00	-20.59	peak

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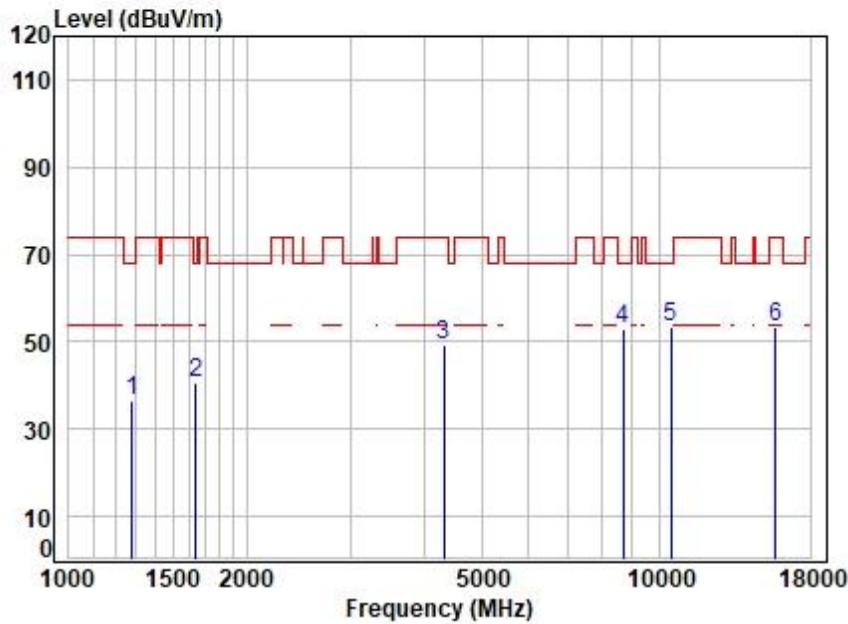
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5240 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 1282.193	3.33	24.26	52.72	61.86	36.73	68.20	-31.47	peak	
2 1639.274	4.07	24.88	52.93	64.67	40.69	68.20	-27.51	peak	
3 4316.859	7.48	29.95	52.90	64.66	49.19	74.00	-24.81	peak	
4 8688.480	10.08	36.13	54.02	60.51	52.70	68.20	-15.50	peak	
5 10480.000	11.06	38.99	53.40	56.57	53.22	68.20	-14.98	peak	
6 15720.000	13.50	39.13	53.34	54.10	53.39	74.00	-20.61	peak	

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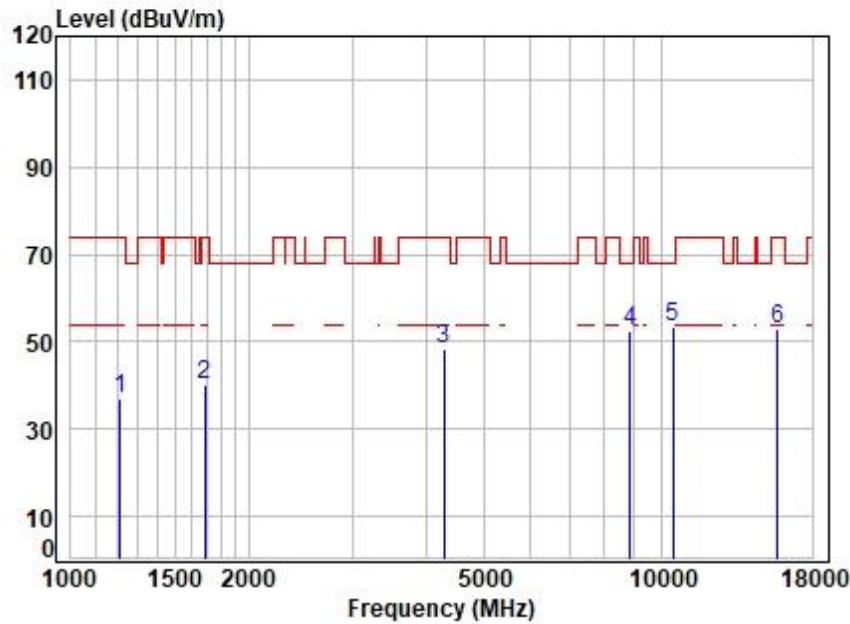
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Report No.: FYCR221100047305

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
Mode : 5240 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 1210.174	3.17	24.29	52.67	62.36	37.15	74.00	-36.85	peak
2 1687.347	4.17	24.98	52.95	64.11	40.31	74.00	-33.69	peak
3 4291.977	7.48	29.92	52.89	63.99	48.50	74.00	-25.50	peak
4 8866.062	10.47	36.11	54.12	60.18	52.64	68.20	-15.56	peak
5 10480.000	11.06	38.99	53.40	56.57	53.22	68.20	-14.98	peak
6 15720.000	13.50	39.13	53.34	53.80	53.09	74.00	-20.91	peak

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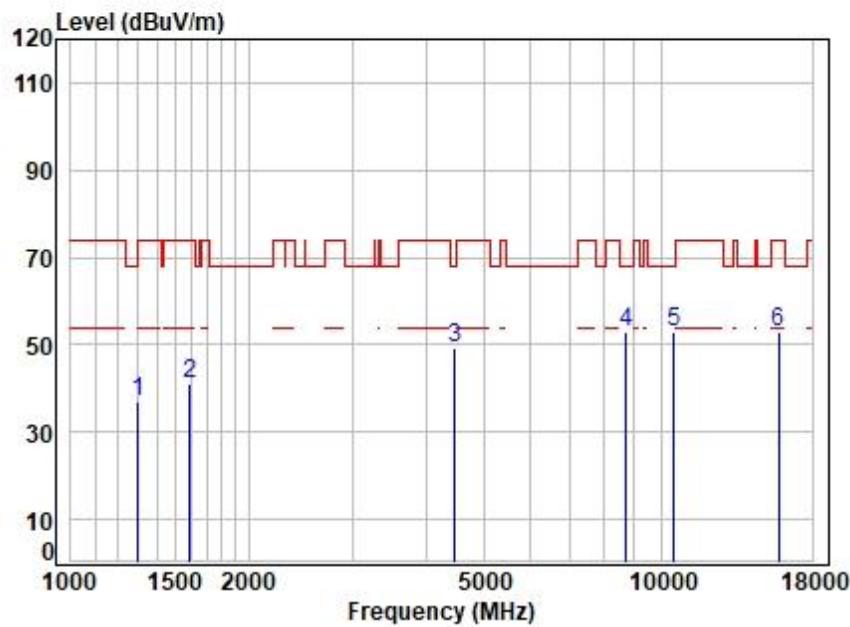
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5260 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	62.13	37.02	74.00	-36.98	peak
2 1592.571	3.97	24.78	52.90	65.27	41.12	74.00	-32.88	peak
3 4469.214	7.47	30.16	52.95	64.39	49.07	68.20	-19.13	peak
4 8713.630	10.14	36.13	54.04	60.72	52.95	68.20	-15.25	peak
5 10520.000	11.07	39.04	53.41	56.39	53.09	68.20	-15.11	peak
6 15780.000	13.51	38.93	53.31	53.72	52.85	74.00	-21.15	peak

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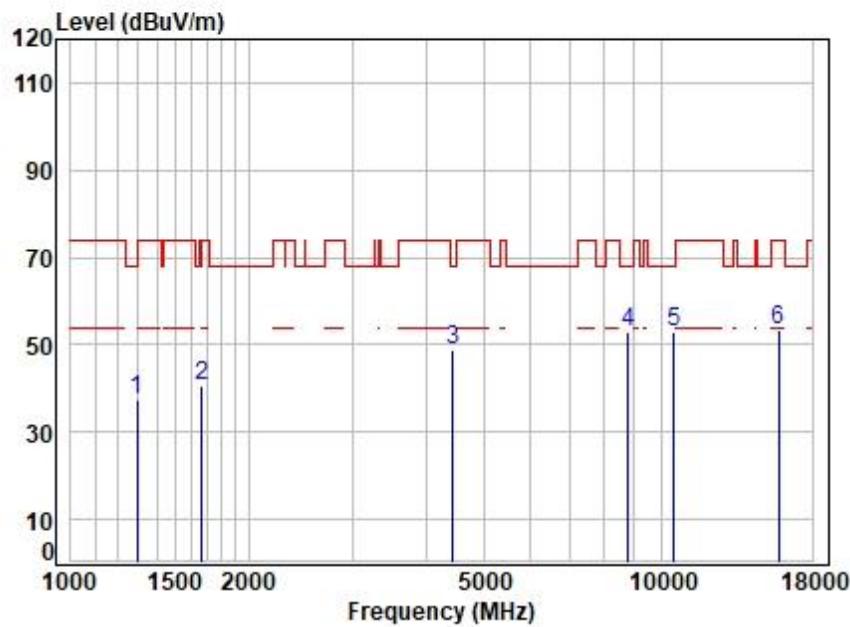
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Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
Mode : 5260 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 1297.103	3.36	24.25	52.73	62.73	37.61	68.20	-30.59 peak
2 1667.951	4.13	24.94	52.94	64.61	40.74	74.00	-33.26 peak
3 4443.453	7.47	30.12	52.94	63.99	48.64	68.20	-19.56 peak
4 8789.516	10.30	36.12	54.08	60.40	52.74	68.20	-15.46 peak
5 10520.000	11.07	39.04	53.41	56.13	52.83	68.20	-15.37 peak
6 15780.000	13.51	38.93	53.31	54.13	53.26	74.00	-20.74 peak

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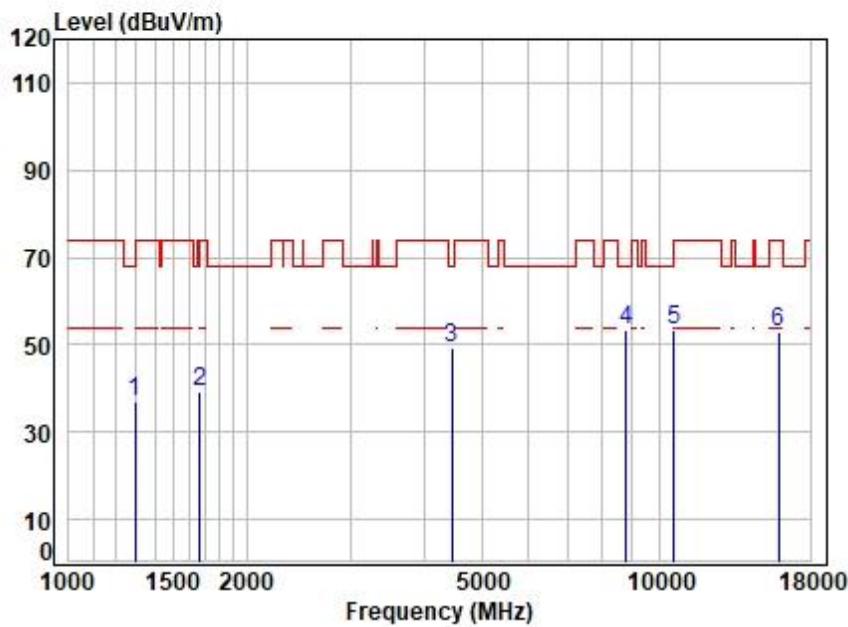
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5300 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 1297.103	3.36	24.25	52.73	62.14	37.02	68.20	-31.18	peak
2 1667.951	4.13	24.94	52.94	63.21	39.34	74.00	-34.66	peak
3 4456.315	7.47	30.14	52.95	64.73	49.39	68.20	-18.81	peak
4 8789.516	10.30	36.12	54.08	61.27	53.61	68.20	-14.59	peak
5 10600.000	11.12	39.13	53.44	56.40	53.21	68.20	-14.99	peak
6 15900.000	13.51	38.53	53.25	54.24	53.03	74.00	-20.97	peak

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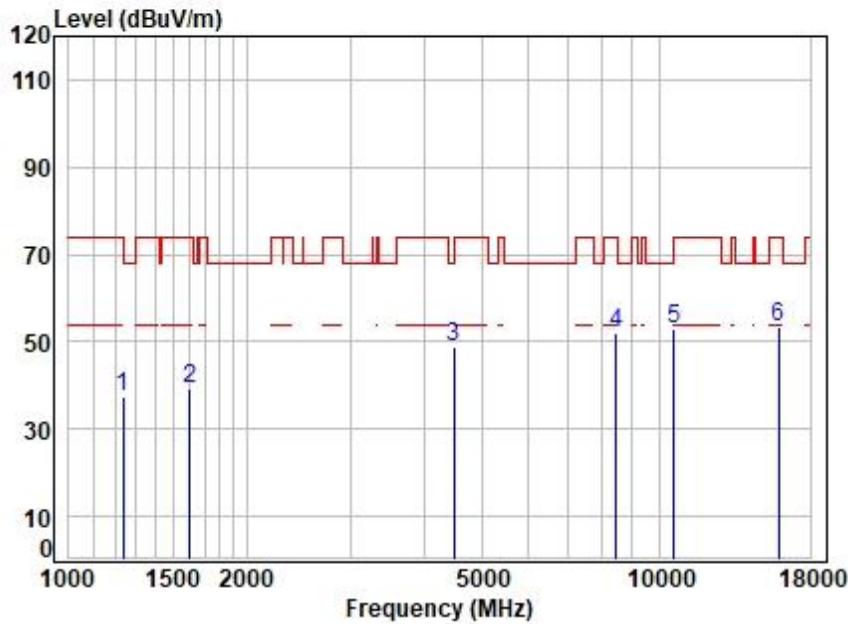
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Report No.: FYCR221100047305

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
Mode : 5300 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 1238.483	3.24	24.28	52.69	62.39	37.22	74.00	-36.78	peak	
2 1601.804	3.99	24.80	52.91	63.58	39.46	74.00	-34.54	peak	
3 4495.125	7.47	30.19	52.96	64.18	48.88	68.20	-19.32	peak	
4 8465.379	9.65	36.15	53.89	60.22	52.13	74.00	-21.87	peak	
5 10600.000	11.12	39.13	53.44	56.21	53.02	68.20	-15.18	peak	
6 15900.000	13.51	38.53	53.25	54.75	53.54	74.00	-20.46	peak	

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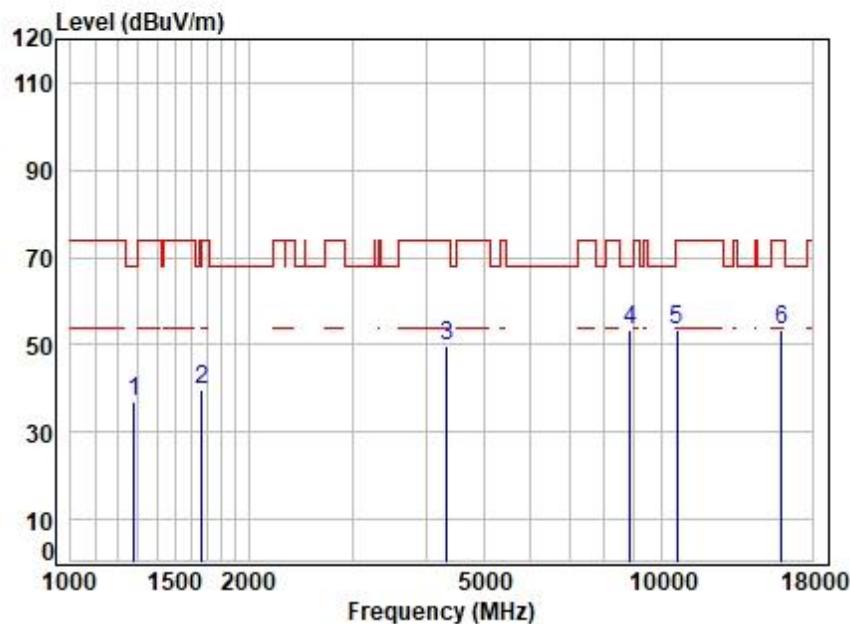
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
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									
1	1278.492	3.32	24.26	52.71	62.30	37.17	68.20	-31.03	peak
2	1667.951	4.13	24.94	52.94	63.79	39.92	74.00	-34.08	peak
3	4329.354	7.48	29.97	52.91	65.25	49.79	74.00	-24.21	peak
4	8866.062	10.47	36.11	54.12	60.78	53.24	68.20	-14.96	peak
5	10640.000	11.15	39.18	53.46	56.29	53.16	74.00	-20.84	peak
6	15960.000	13.52	38.33	53.22	54.80	53.43	74.00	-20.57	peak

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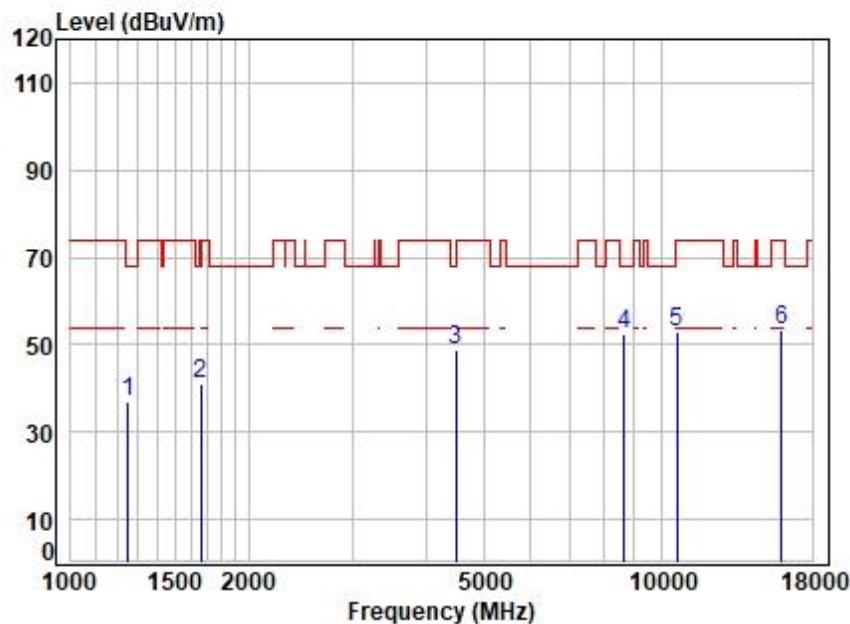
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Report No.: FYCR221100047305

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
Mode : 5320 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 Remark
1 1249.269	3.26	24.27	52.69	62.17	37.01	68.20	-31.19	peak	
2 1663.137	4.12	24.93	52.94	64.85	40.96	74.00	-33.04	peak	
3 4482.150	7.47	30.18	52.95	64.32	49.02	68.20	-19.18	peak	
4 8663.404	10.03	36.13	54.01	60.18	52.33	68.20	-15.87	peak	
5 10640.000	11.15	39.18	53.46	56.09	52.96	74.00	-21.04	peak	
6 15960.000	13.52	38.33	53.22	54.57	53.20	74.00	-20.80	peak	

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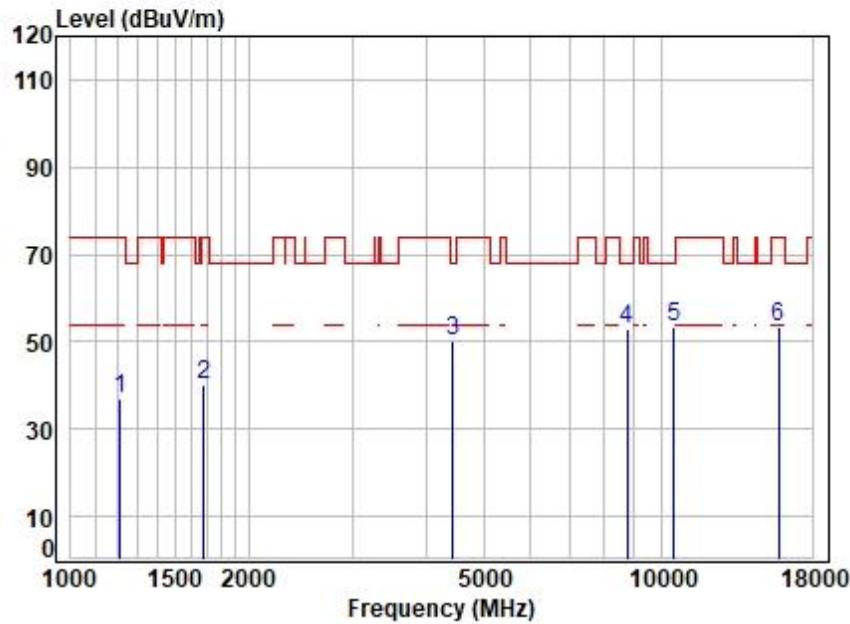
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
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	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1213.677	3.18	24.29	52.67	61.98	36.78	74.00	-37.22	peak	
2 1682.477	4.16	24.97	52.95	63.92	40.10	74.00	-33.90	peak	
3 4443.453	7.47	30.12	52.94	65.59	50.24	68.20	-17.96	peak	
4 8738.852	10.19	36.12	54.05	60.75	53.01	68.20	-15.19	peak	
5 10520.000	11.07	39.04	53.41	56.62	53.32	68.20	-14.88	peak	
6 15780.000	13.51	38.93	53.31	54.44	53.57	74.00	-20.43	peak	

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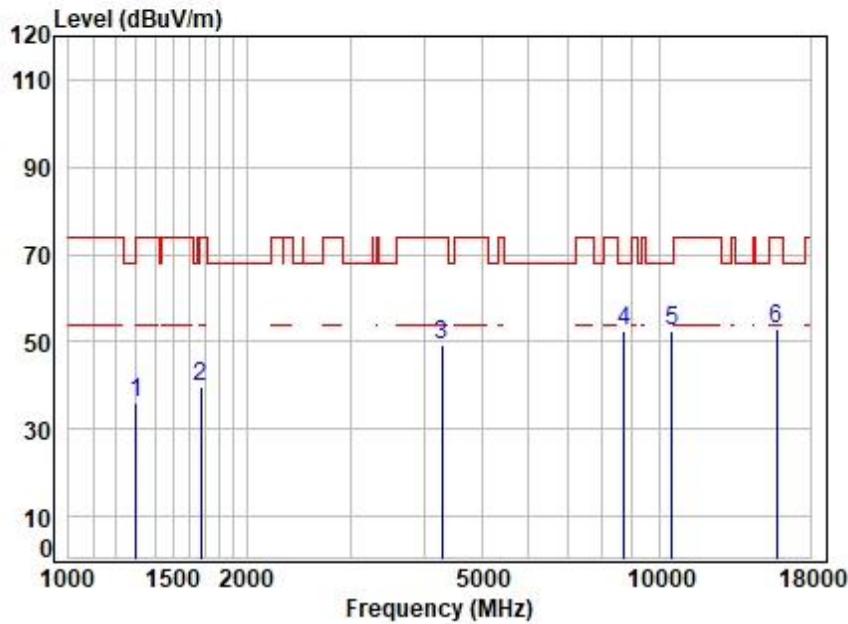
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Report No.: FYCR221100047305

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
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	1300.858	3.37	24.25	52.73	61.23	36.12	74.00	-37.88	peak
2	1672.779	4.14	24.95	52.95	63.60	39.74	74.00	-34.26	peak
3	4279.589	7.48	29.90	52.89	65.01	49.50	74.00	-24.50	peak
4	8713.630	10.14	36.13	54.04	60.47	52.70	68.20	-15.50	peak
5	10520.000	11.07	39.04	53.41	55.89	52.59	68.20	-15.61	peak
6	15780.000	13.51	38.93	53.31	53.84	52.97	74.00	-21.03	peak

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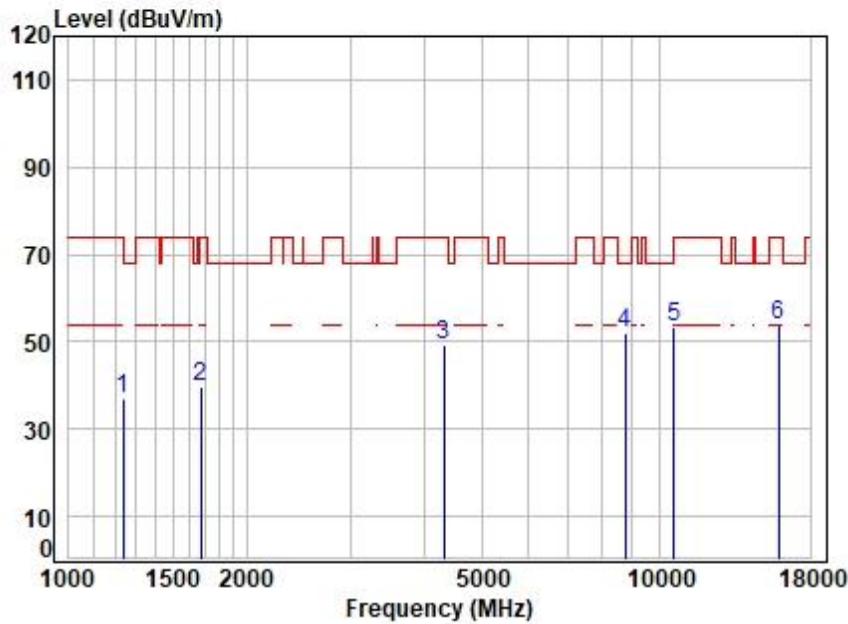
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Report No.: FYCR221100047305

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5300 TX RSE
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over	
							dB	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1234.909	3.23	24.28	52.68	62.32	37.15	74.00	-36.85	peak
2 1672.779	4.14	24.95	52.95	63.34	39.48	74.00	-34.52	peak
3 4316.859	7.48	29.95	52.90	64.79	49.32	74.00	-24.68	peak
4 8738.852	10.19	36.12	54.05	59.94	52.20	68.20	-16.00	peak
5 10600.000	11.12	39.13	53.44	56.50	53.31	68.20	-14.89	peak
6 15900.000	13.51	38.53	53.25	54.92	53.71	74.00	-20.29	peak

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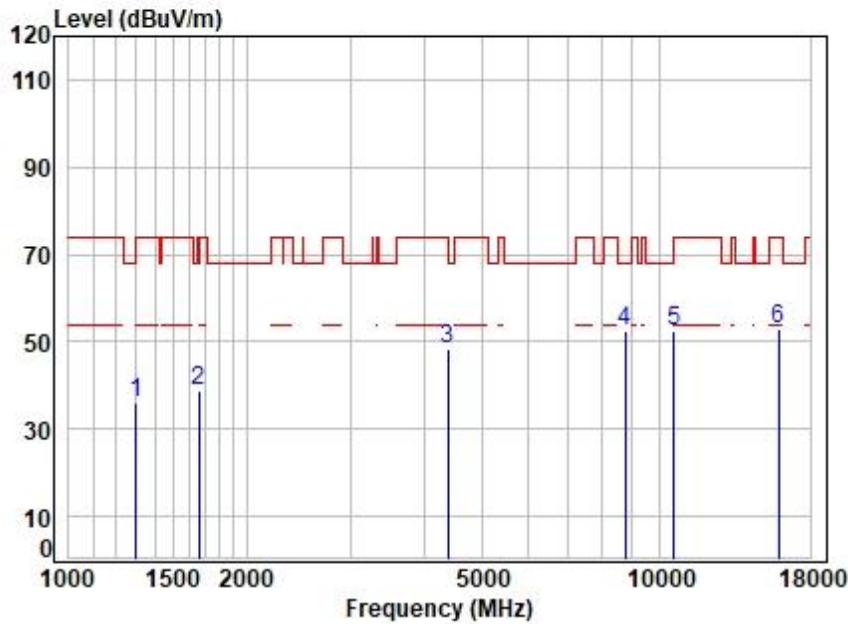
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Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
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 1300.858	3.37	24.25	52.73	61.19	36.08	74.00	-37.92	peak	
2 1663.137	4.12	24.93	52.94	62.85	38.96	74.00	-35.04	peak	
3 4392.376	7.47	30.06	52.93	63.95	48.55	74.00	-25.45	peak	
4 8764.146	10.25	36.12	54.06	60.15	52.46	68.20	-15.74	peak	
5 10600.000	11.12	39.13	53.44	55.82	52.63	68.20	-15.57	peak	
6 15900.000	13.51	38.53	53.25	54.15	52.94	74.00	-21.06	peak	

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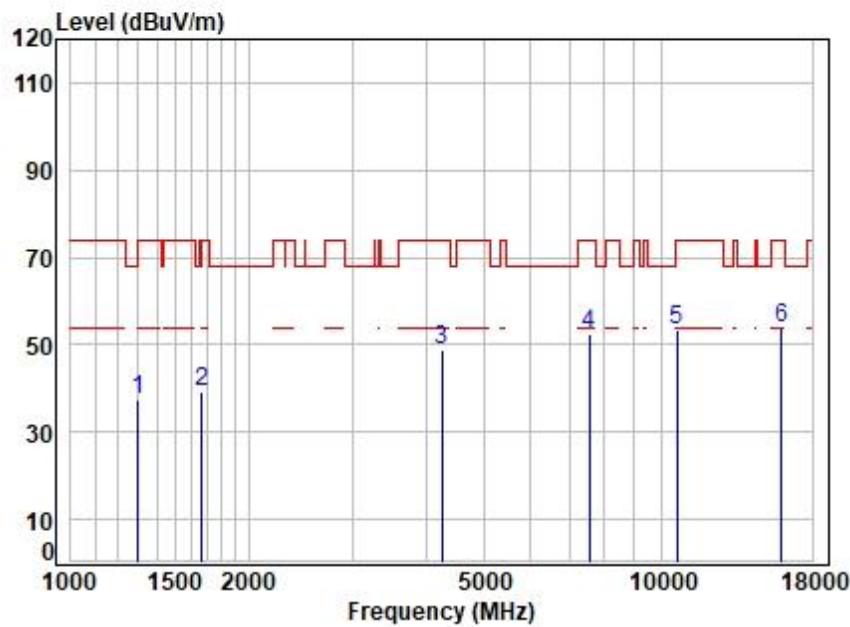
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
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	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1300.858	3.37	24.25	52.73	62.66	37.55	74.00	-36.45	peak	
2 1667.951	4.13	24.94	52.94	63.31	39.44	74.00	-34.56	peak	
3 4254.921	7.48	29.87	52.88	64.39	48.86	74.00	-25.14	peak	
4 7541.114	8.51	36.38	53.56	61.02	52.35	74.00	-21.65	peak	
5 10640.000	11.15	39.18	53.46	56.31	53.18	74.00	-20.82	peak	
6 15960.000	13.52	38.33	53.22	55.01	53.64	74.00	-20.36	peak	

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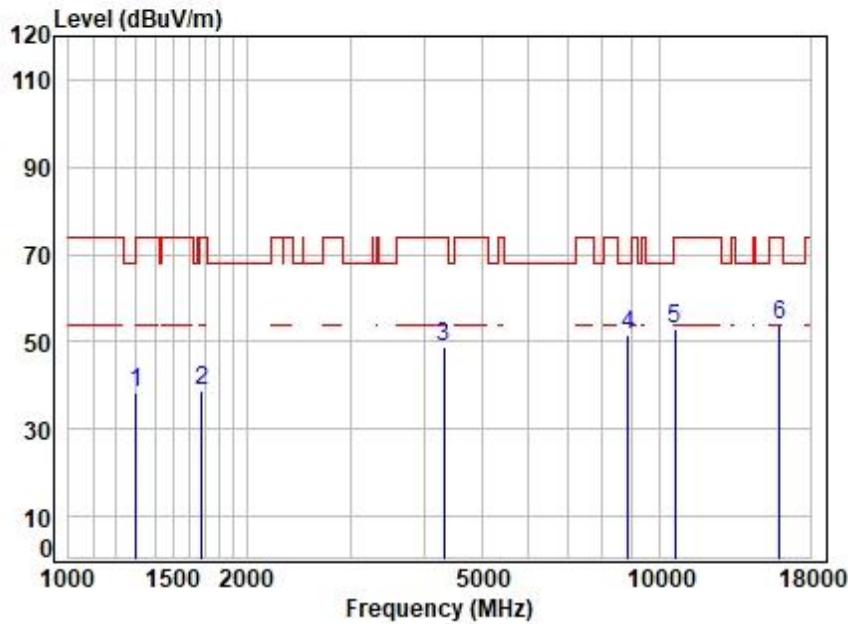
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Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
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	1300.858	3.37	24.25	52.73	63.33	38.22	74.00	-35.78	peak
2	1682.477	4.16	24.97	52.95	62.81	38.99	74.00	-35.01	peak
3	4316.859	7.48	29.95	52.90	64.47	49.00	74.00	-25.00	peak
4	8840.473	10.41	36.12	54.11	59.34	51.76	68.20	-16.44	peak
5	10640.000	11.15	39.18	53.46	56.05	52.92	74.00	-21.08	peak
6	15960.000	13.52	38.33	53.22	55.16	53.79	74.00	-20.21	peak

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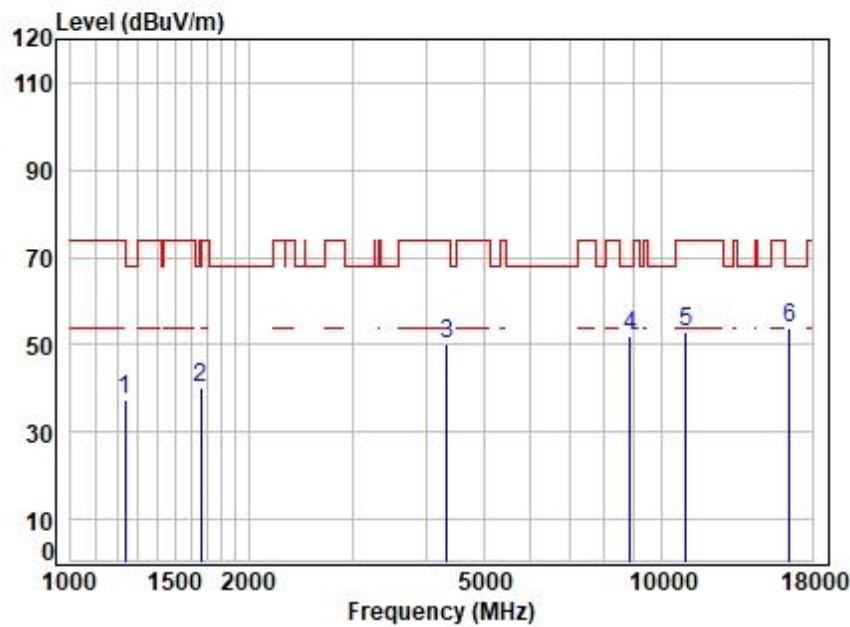
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
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
								dB	dB/m
1	1238.483	3.24	24.28	52.69	62.71	37.54	74.00	-36.46	peak
2	1658.337	4.11	24.92	52.94	63.97	40.06	68.20	-28.14	peak
3	4329.354	7.48	29.97	52.91	65.58	50.12	74.00	-23.88	peak
4	8866.062	10.47	36.11	54.12	59.56	52.02	68.20	-16.18	peak
5	11000.000	11.36	39.60	53.60	55.39	52.75	74.00	-21.25	peak
6	16500.000	14.69	39.93	52.90	51.91	53.63	68.20	-14.57	peak

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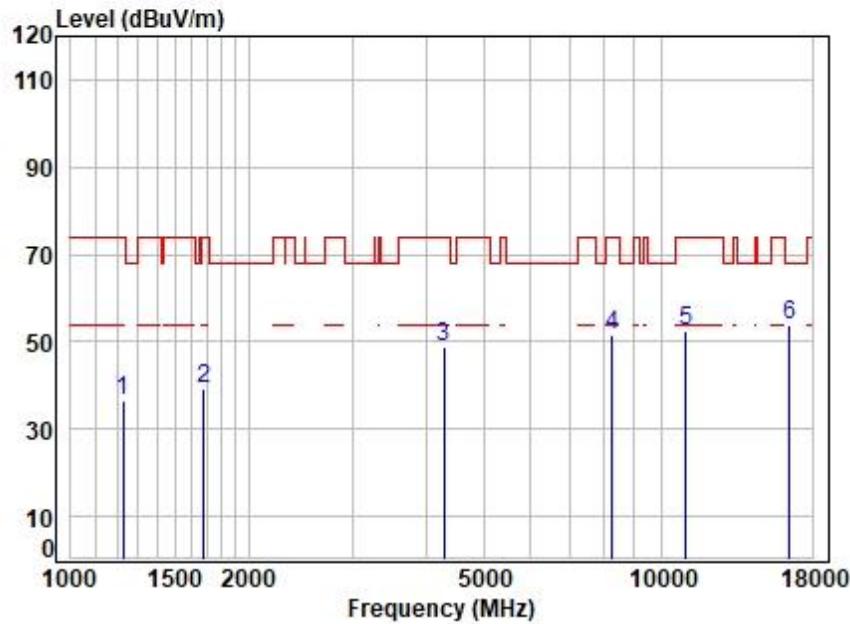
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Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
Mode : 5500 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 1227.791	3.21	24.29	52.68	61.60	36.42	74.00	-37.58 peak
2 1677.621	4.15	24.96	52.95	63.20	39.36	74.00	-34.64 peak
3 4291.977	7.48	29.92	52.89	64.27	48.78	74.00	-25.22 peak
4 8248.005	9.55	36.17	53.76	59.81	51.77	74.00	-22.23 peak
5 11000.000	11.36	39.60	53.60	55.10	52.46	74.00	-21.54 peak
6 16500.000	14.69	39.93	52.90	52.06	53.78	68.20	-14.42 peak

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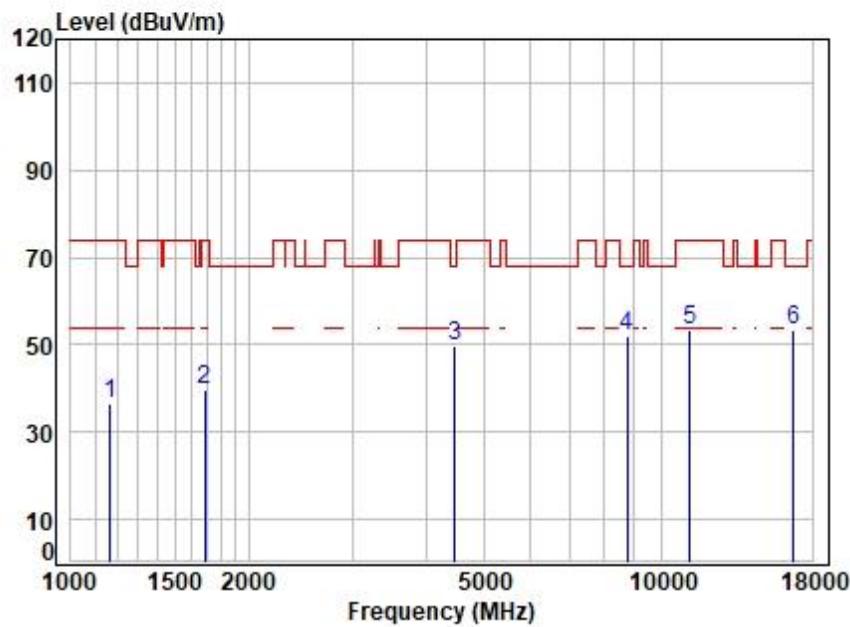
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5580 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	dB	dBuV	dBuV/m	dBuV/m	dB
1 1165.546	3.07	24.27	52.63	61.97	36.68	74.00	-37.32	peak
2 1687.347	4.17	24.98	52.95	63.36	39.56	74.00	-34.44	peak
3 4469.214	7.47	30.16	52.95	64.91	49.59	68.20	-18.61	peak
4 8738.852	10.19	36.12	54.05	59.84	52.10	68.20	-16.10	peak
5 11160.000	11.44	39.63	53.67	55.77	53.17	74.00	-20.83	peak
6 16740.000	14.50	40.74	52.75	50.83	53.32	68.20	-14.88	peak

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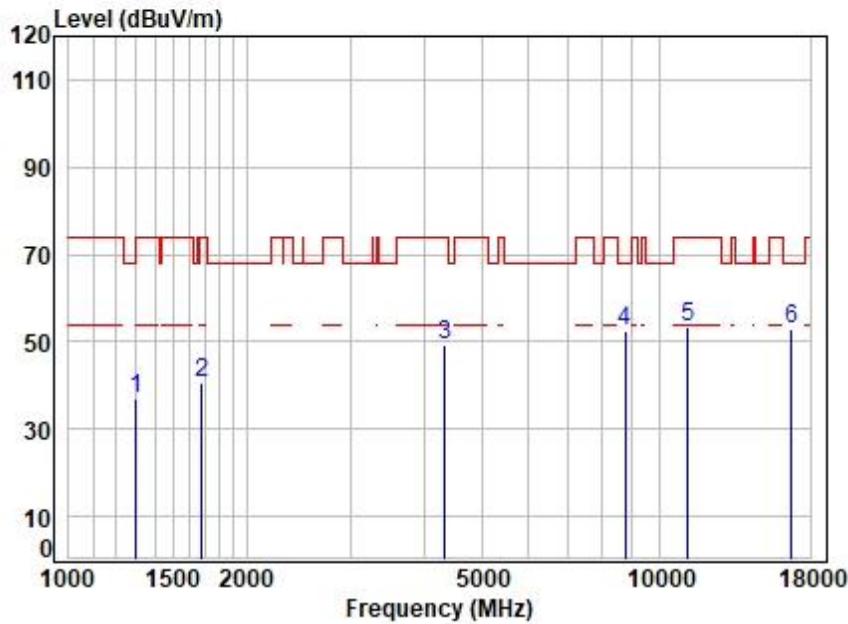
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Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
Mode : 5580 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 1300.858	3.37	24.25	52.73	61.95	36.84	74.00	-37.16	peak	
2 1682.477	4.16	24.97	52.95	64.27	40.45	74.00	-33.55	peak	
3 4341.886	7.48	29.99	52.91	64.73	49.29	74.00	-24.71	peak	
4 8738.852	10.19	36.12	54.05	60.06	52.32	68.20	-15.88	peak	
5 11160.000	11.44	39.63	53.67	55.96	53.36	74.00	-20.64	peak	
6 16740.000	14.50	40.74	52.75	50.53	53.02	68.20	-15.18	peak	

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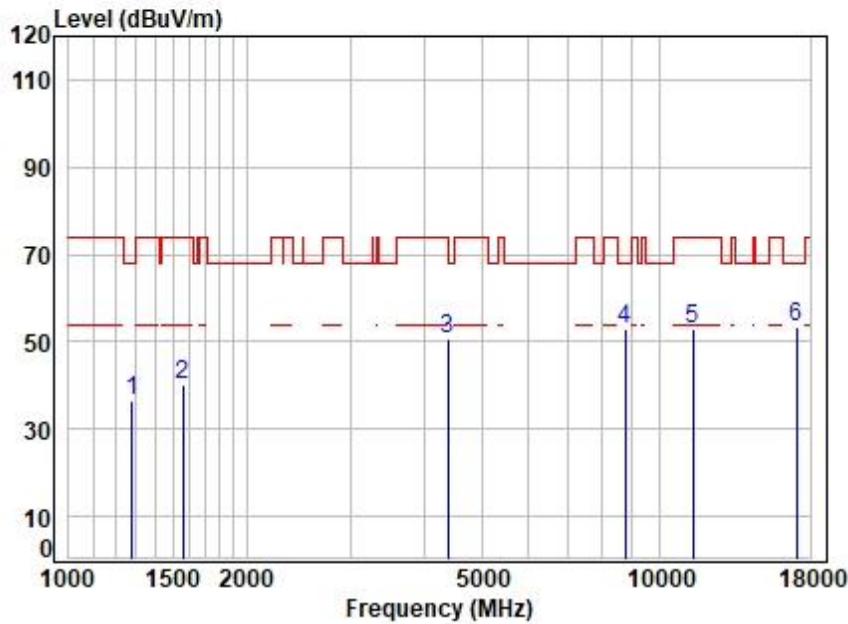
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
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 1282.193	3.33	24.26	52.72	61.84	36.71	68.20	-31.49	peak	
2 1560.673	3.91	24.69	52.89	64.39	40.10	74.00	-33.90	peak	
3 4392.376	7.47	30.06	52.93	65.84	50.44	74.00	-23.56	peak	
4 8764.146	10.25	36.12	54.06	60.64	52.95	68.20	-15.25	peak	
5 11400.000	11.55	39.68	53.76	55.65	53.12	74.00	-20.88	peak	
6 17100.000	14.34	42.14	52.54	49.30	53.24	68.20	-14.96	peak	

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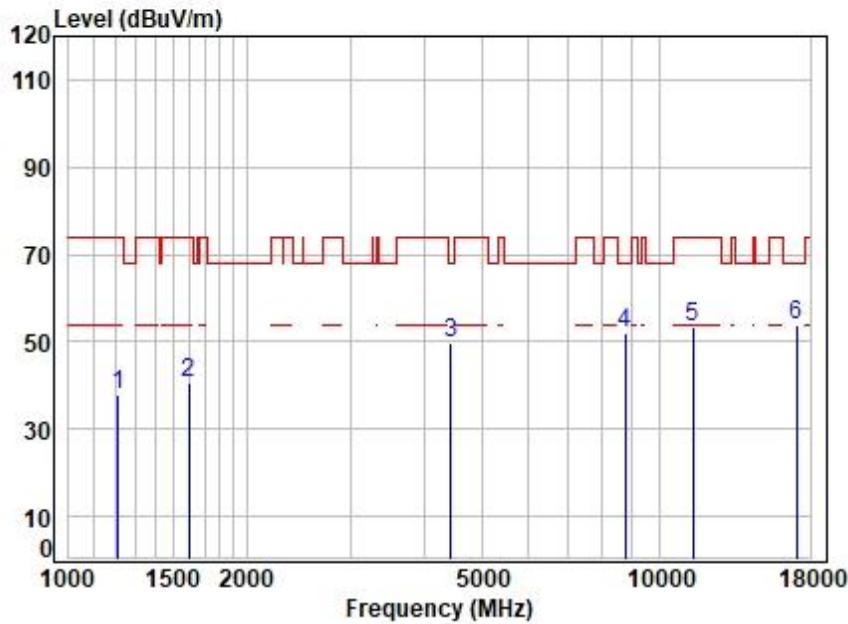
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Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
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	1213.677	3.18	24.29	52.67	63.03	37.83	74.00	-36.17	peak
2	1597.181	3.98	24.79	52.91	64.70	40.56	74.00	-33.44	peak
3	4430.628	7.47	30.11	52.94	65.26	49.90	68.20	-18.30	peak
4	8738.852	10.19	36.12	54.05	59.78	52.04	68.20	-16.16	peak
5	11400.000	11.55	39.68	53.76	55.78	53.25	74.00	-20.75	peak
6	17100.000	14.34	42.14	52.54	49.99	53.93	68.20	-14.27	peak

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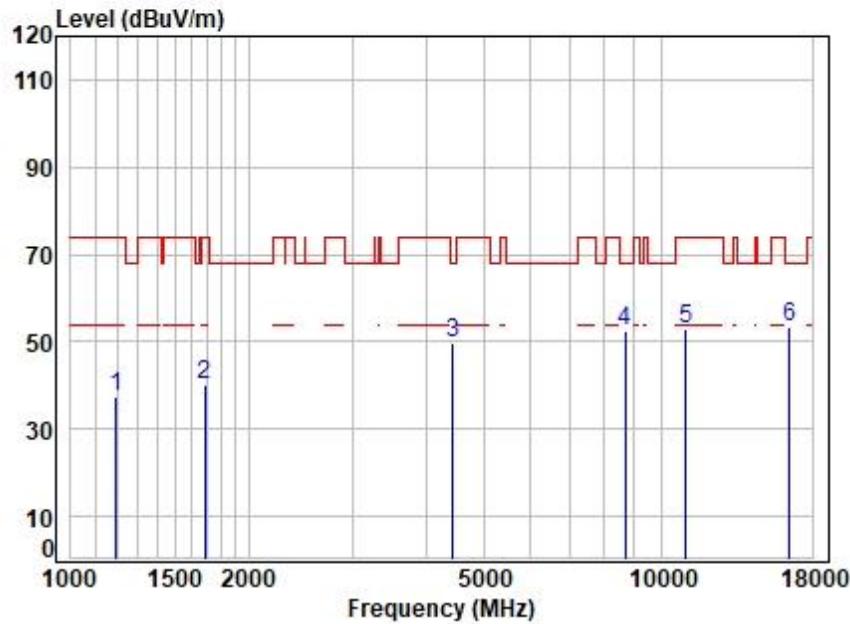
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5500 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 1192.811	3.13	24.29	52.65	62.66	37.43	74.00	-36.57 peak
2 1687.347	4.17	24.98	52.95	64.08	40.28	74.00	-33.72 peak
3 4430.628	7.47	30.11	52.94	65.16	49.80	68.20	-18.40 peak
4 8688.480	10.08	36.13	54.02	60.35	52.54	68.20	-15.66 peak
5 11000.000	11.36	39.60	53.60	55.41	52.77	74.00	-21.23 peak
6 16500.000	14.69	39.93	52.90	51.76	53.48	68.20	-14.72 peak

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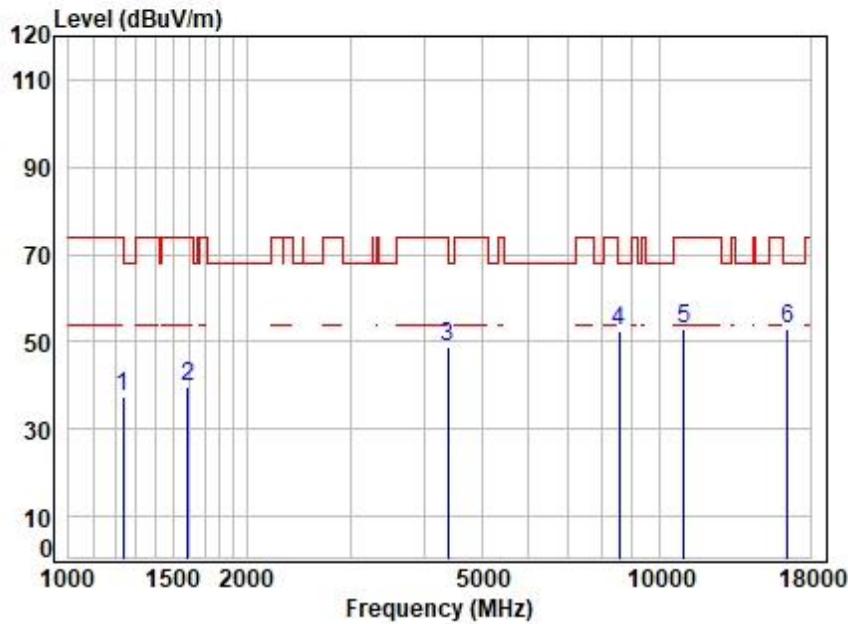
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Report No.: FYCR221100047305

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
Mode : 5500 TX RSE
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over				
							dBuV	dBuV/m	dBuV/m	dB	Remark
MHz	dB	dB/m	dB	dB	dB	dB	dB	dB	dB	dB	
1 1234.909	3.23	24.28	52.68	62.38	37.21	74.00	-36.79	peak			
2 1592.571	3.97	24.78	52.90	63.96	39.81	74.00	-34.19	peak			
3 4379.699	7.47	30.04	52.92	64.25	48.84	74.00	-25.16	peak			
4 8539.102	9.76	36.14	53.93	60.64	52.61	68.20	-15.59	peak			
5 11000.000	11.36	39.60	53.60	55.78	53.14	74.00	-20.86	peak			
6 16500.000	14.69	39.93	52.90	51.43	53.15	68.20	-15.05	peak			

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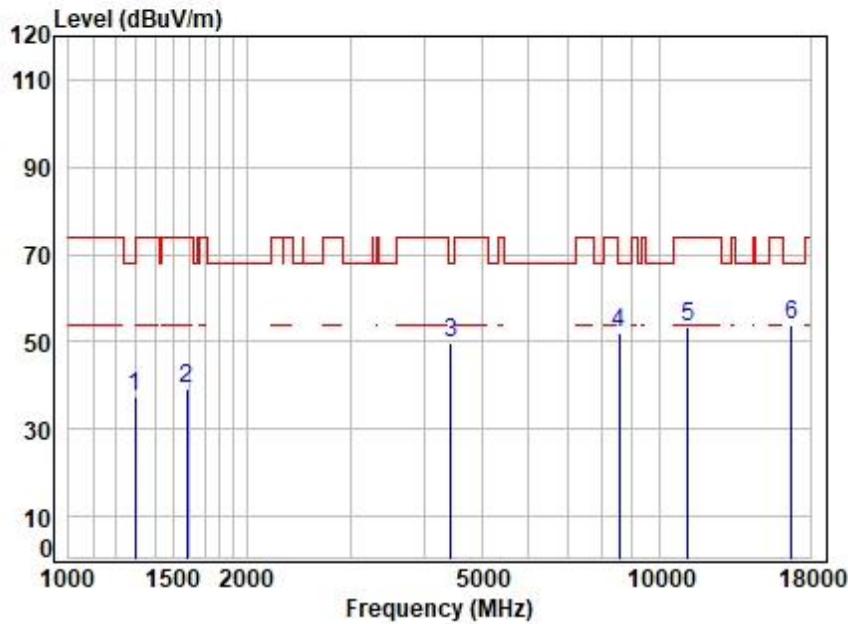
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
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	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1297.103	3.36	24.25	52.73	62.74	37.62	68.20	-30.58	peak	
2 1587.975	3.96	24.77	52.90	63.31	39.14	74.00	-34.86	peak	
3 4443.453	7.47	30.12	52.94	64.98	49.63	68.20	-18.57	peak	
4 8563.818	9.81	36.14	53.95	60.21	52.21	68.20	-15.99	peak	
5 11160.000	11.44	39.63	53.67	55.92	53.32	74.00	-20.68	peak	
6 16740.000	14.50	40.74	52.75	51.31	53.80	68.20	-14.40	peak	

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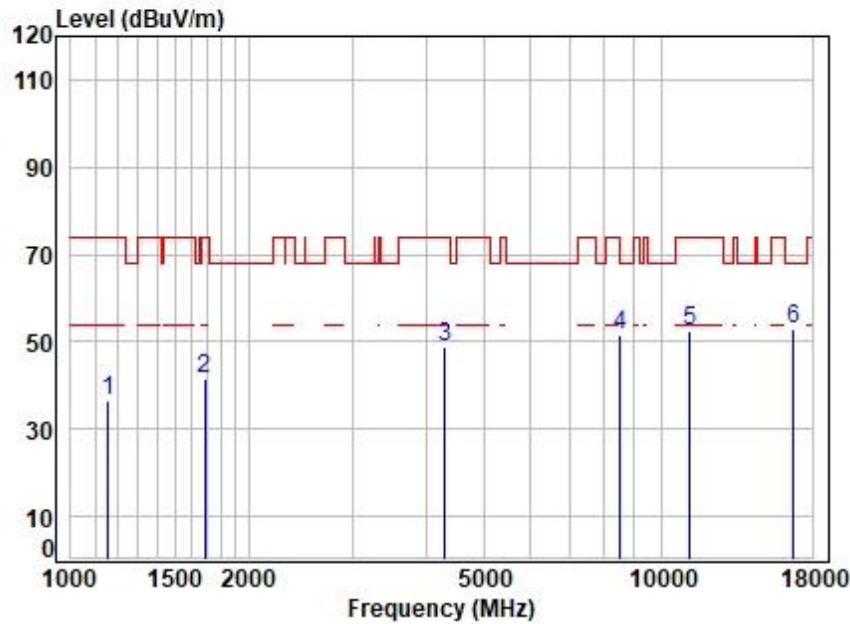
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047305

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
Mode : 5580 TX RSE
Note : 5G WIFI 11N20

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		dBuV	dBuV/m				
1 1155.483	3.04	24.26	52.63	61.94	36.61	74.00	-37.39	peak	
2 1687.347	4.17	24.98	52.95	65.21	41.41	74.00	-32.59	peak	
3 4304.400	7.48	29.94	52.90	64.49	49.01	74.00	-24.99	peak	
4 8514.456	9.70	36.15	53.92	59.62	51.55	68.20	-16.65	peak	
5 11160.000	11.44	39.63	53.67	55.26	52.66	74.00	-21.34	peak	
6 16740.000	14.50	40.74	52.75	50.59	53.08	68.20	-15.12	peak	

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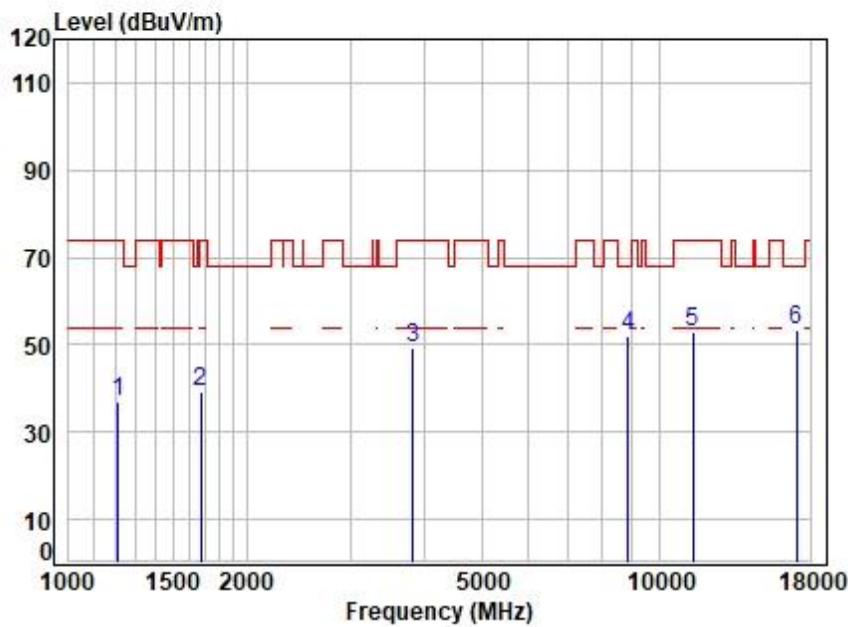
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047305

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
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	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1213.677	3.18	24.29	52.67	61.99	36.79	74.00	-37.21	peak	
2 1672.779	4.14	24.95	52.95	62.96	39.10	74.00	-34.90	peak	
3 3823.371	7.32	29.23	52.85	65.38	49.08	74.00	-24.92	peak	
4 8840.473	10.41	36.12	54.11	59.62	52.04	68.20	-16.16	peak	
5 11400.000	11.55	39.68	53.76	55.38	52.85	74.00	-21.15	peak	
6 17100.000	14.34	42.14	52.54	49.56	53.50	68.20	-14.70	peak	

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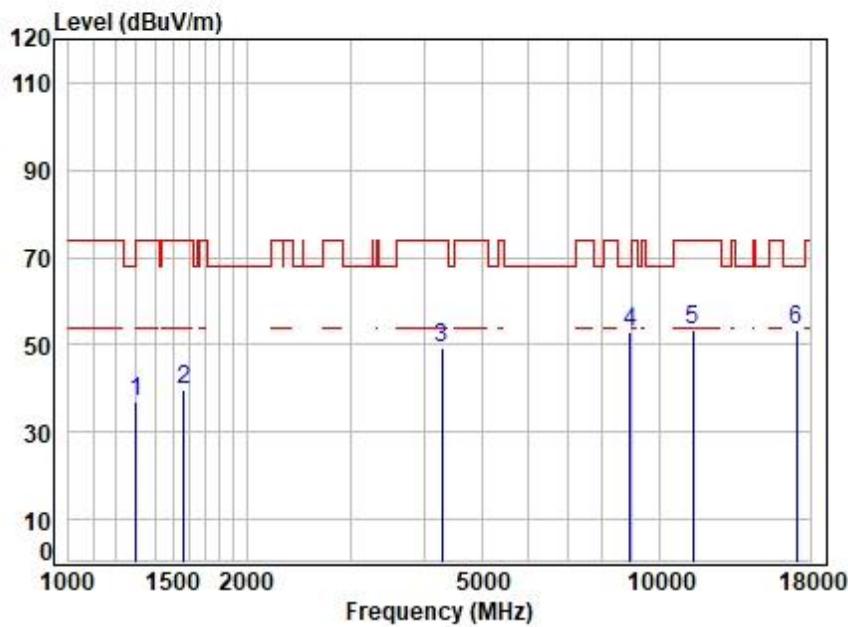
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Report No.: FYCR221100047305

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
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	1300.858	3.37	24.25	52.73	62.10	36.99	74.00	-37.01	peak
2	1565.191	3.91	24.70	52.89	63.90	39.62	74.00	-34.38	peak
3	4291.977	7.48	29.92	52.89	64.72	49.23	74.00	-24.77	peak
4	8917.462	10.58	36.11	54.15	60.40	52.94	68.20	-15.26	peak
5	11400.000	11.55	39.68	53.76	55.86	53.33	74.00	-20.67	peak
6	17100.000	14.34	42.14	52.54	49.42	53.36	68.20	-14.84	peak

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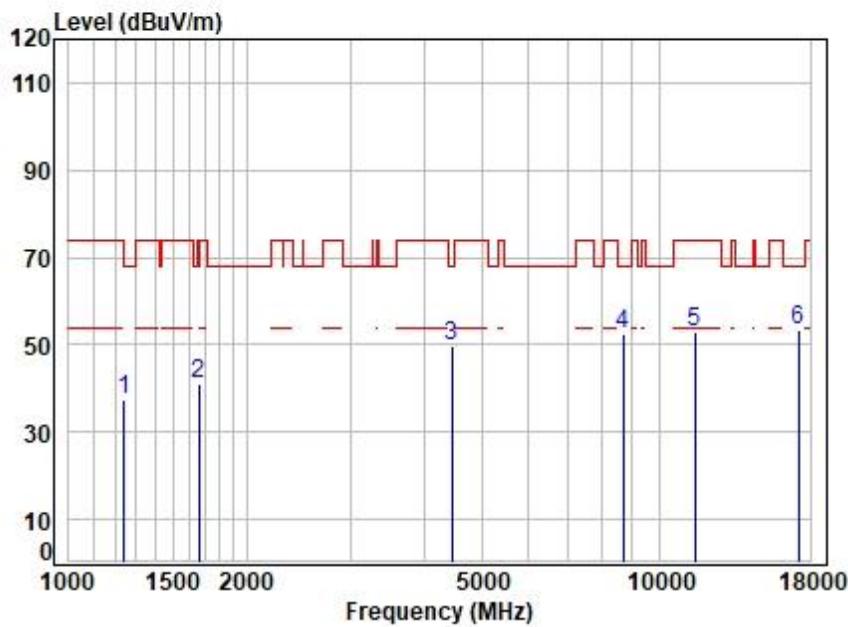
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Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5745 TX RSE
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over	Remark	
								dB	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1242.068	3.24	24.28	52.69	62.78	37.61	68.20	-30.59	peak	
2 1658.337	4.11	24.92	52.94	64.81	40.90	68.20	-27.30	peak	
3 4456.315	7.47	30.14	52.95	65.03	49.69	68.20	-18.51	peak	
4 8688.480	10.08	36.13	54.02	60.13	52.32	68.20	-15.88	peak	
5 11490.000	11.60	39.70	53.80	55.31	52.81	74.00	-21.19	peak	
6 17235.000	14.39	42.87	52.46	48.80	53.60	68.20	-14.60	peak	

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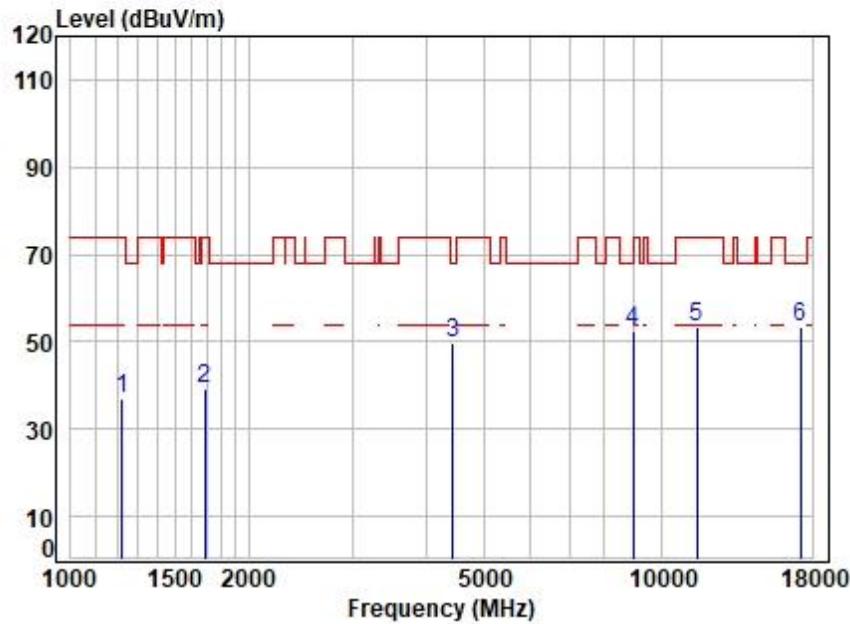
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Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
Mode : 5745 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	1220.714	3.20	24.29	52.67	62.00	36.82	74.00	-37.18	peak
2	1687.347	4.17	24.98	52.95	63.00	39.20	74.00	-34.80	peak
3	4430.628	7.47	30.11	52.94	65.30	49.94	68.20	-18.26	peak
4	8969.161	10.69	36.10	54.18	59.91	52.52	68.20	-15.68	peak
5	11490.000	11.60	39.70	53.80	55.86	53.36	74.00	-20.64	peak
6	17235.000	14.39	42.87	52.46	48.62	53.42	68.20	-14.78	peak

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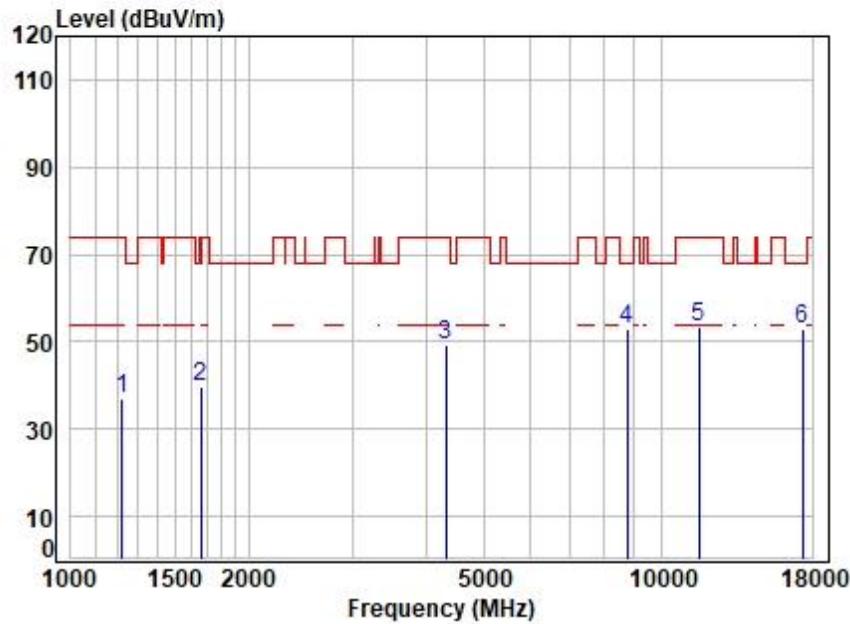
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Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5785 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	1220.714	3.20	24.29	52.67	61.94	36.76	74.00	-37.24	peak
2	1663.137	4.12	24.93	52.94	63.46	39.57	74.00	-34.43	peak
3	4316.859	7.48	29.95	52.90	64.94	49.47	74.00	-24.53	peak
4	8738.852	10.19	36.12	54.05	60.75	53.01	68.20	-15.19	peak
5	11570.000	11.60	39.72	53.83	55.79	53.28	74.00	-20.72	peak
6	17355.000	14.44	43.52	52.38	47.35	52.93	68.20	-15.27	peak

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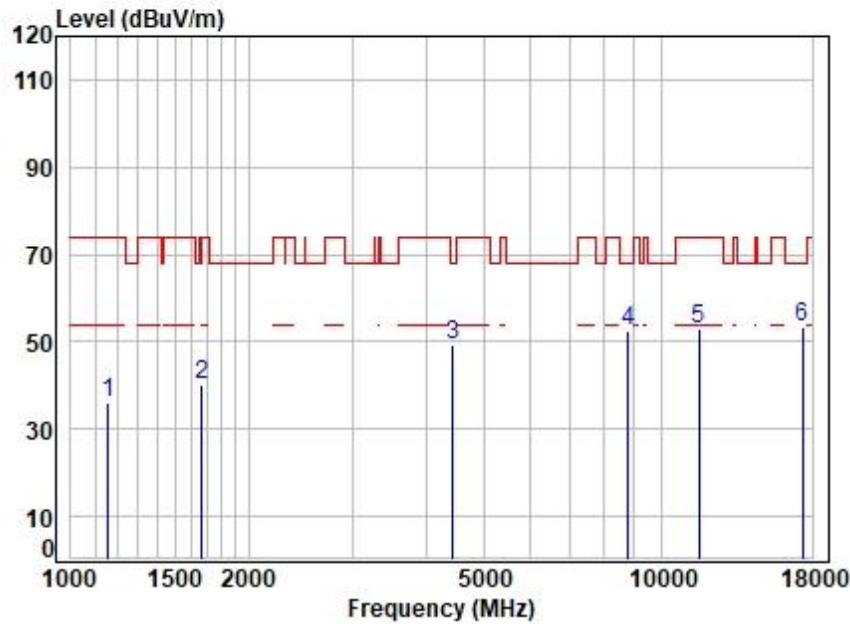
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR221100047305

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
Mode : 5785 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	1158.828	3.05	24.26	52.63	61.46	36.14	74.00	-37.86	peak
2	1667.951	4.13	24.94	52.94	63.85	39.98	74.00	-34.02	peak
3	4430.628	7.47	30.11	52.94	64.77	49.41	68.20	-18.79	peak
4	8789.516	10.30	36.12	54.08	60.11	52.45	68.20	-15.75	peak
5	11570.000	11.60	39.72	53.83	55.34	52.83	74.00	-21.17	peak
6	17355.000	14.44	43.52	52.38	48.01	53.59	68.20	-14.61	peak

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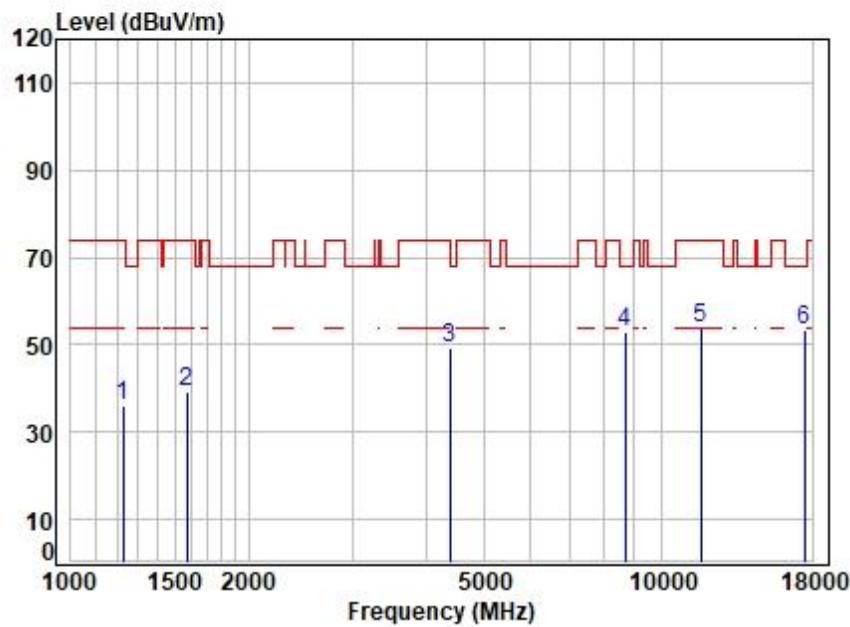
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Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
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	dBuV/m
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB	
1 1227.791	3.21	24.29	52.68	61.31	36.13	74.00	-37.87	peak	
2 1574.265	3.93	24.73	52.89	63.50	39.27	74.00	-34.73	peak	
3 4392.376	7.47	30.06	52.93	64.45	49.05	74.00	-24.95	peak	
4 8688.480	10.08	36.13	54.02	60.63	52.82	68.20	-15.38	peak	
5 11650.000	11.60	39.73	53.86	56.28	53.75	74.00	-20.25	peak	
6 17475.000	14.48	44.16	52.31	46.84	53.17	68.20	-15.03	peak	

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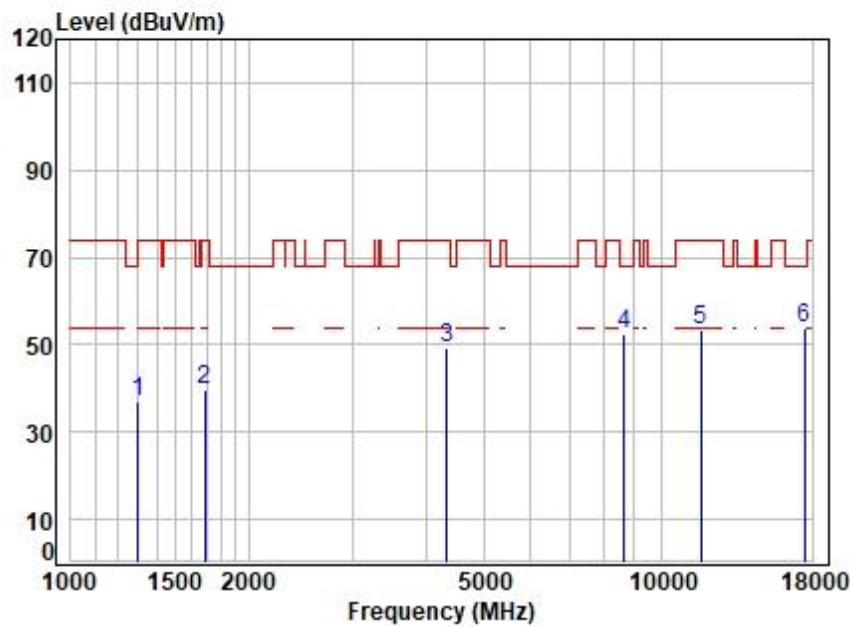
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Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
Mode : 5825 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 1300.858	3.37	24.25	52.73	61.95	36.84	74.00	-37.16	peak	
2 1687.347	4.17	24.98	52.95	63.46	39.66	74.00	-34.34	peak	
3 4341.886	7.48	29.99	52.91	64.56	49.12	74.00	-24.88	peak	
4 8663.404	10.03	36.13	54.01	60.46	52.61	68.20	-15.59	peak	
5 11650.000	11.60	39.73	53.86	55.94	53.41	74.00	-20.59	peak	
6 17475.000	14.48	44.16	52.31	47.34	53.67	68.20	-14.53	peak	

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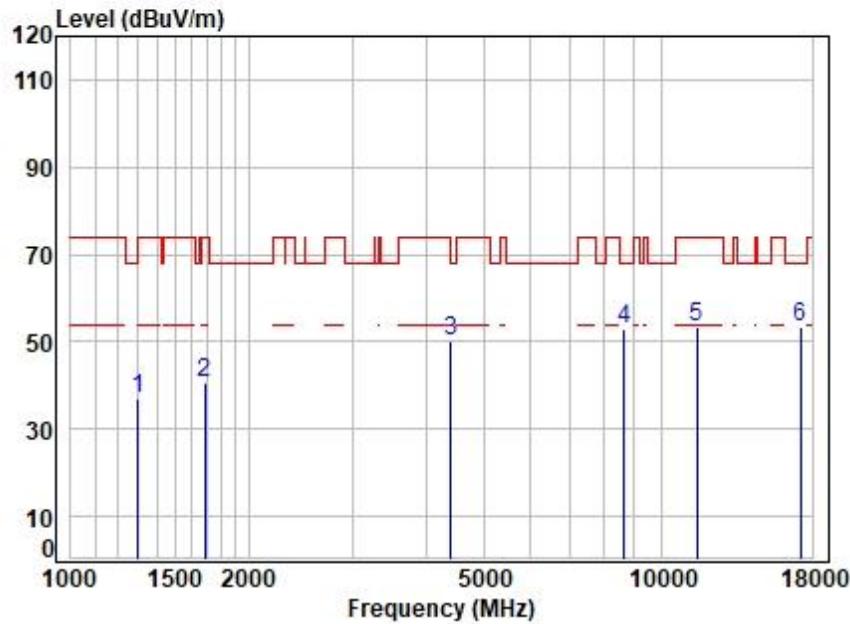
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Report No.: FYCR221100047305

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5745 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	1300.858	3.37	24.25	52.73	62.15	37.04	74.00	-36.96	peak
2	1687.347	4.17	24.98	52.95	64.33	40.53	74.00	-33.47	peak
3	4405.090	7.47	30.07	52.93	65.47	50.08	68.20	-18.12	peak
4	8638.399	9.98	36.13	53.99	60.61	52.73	68.20	-15.47	peak
5	11490.000	11.60	39.70	53.80	55.73	53.23	74.00	-20.77	peak
6	17235.000	14.39	42.87	52.46	48.37	53.17	68.20	-15.03	peak

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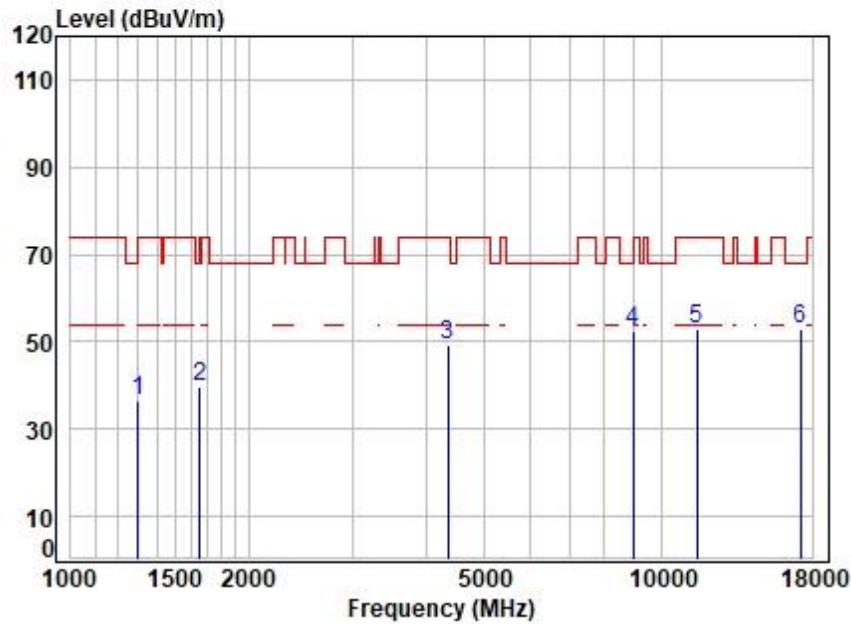
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Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
Mode : 5745 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 1300.858	3.37	24.25	52.73	61.61	36.50	74.00	-37.50	peak	
2 1653.550	4.10	24.91	52.94	63.68	39.75	68.20	-28.45	peak	
3 4354.454	7.48	30.00	52.91	64.51	49.08	74.00	-24.92	peak	
4 8969.161	10.69	36.10	54.18	59.99	52.60	68.20	-15.60	peak	
5 11490.000	11.60	39.70	53.80	55.46	52.96	74.00	-21.04	peak	
6 17235.000	14.39	42.87	52.46	48.23	53.03	68.20	-15.17	peak	

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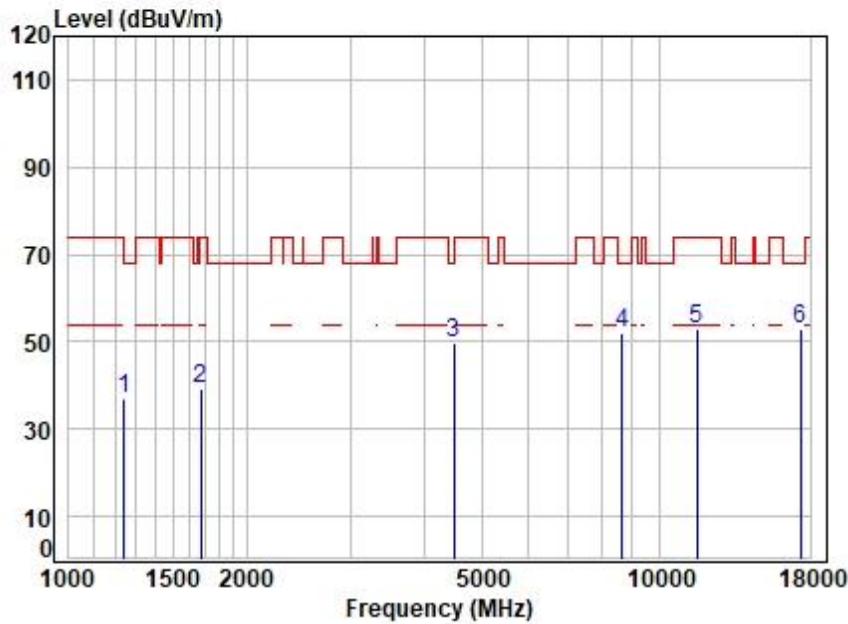
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Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5785 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 1242.068	3.24	24.28	52.69	62.15	36.98	68.20	-31.22	peak	
2 1672.779	4.14	24.95	52.95	63.13	39.27	74.00	-34.73	peak	
3 4482.150	7.47	30.18	52.95	65.14	49.84	68.20	-18.36	peak	
4 8638.399	9.98	36.13	53.99	59.74	51.86	68.20	-16.34	peak	
5 11570.000	11.60	39.72	53.83	55.56	53.05	74.00	-20.95	peak	
6 17355.000	14.44	43.52	52.38	47.49	53.07	68.20	-15.13	peak	

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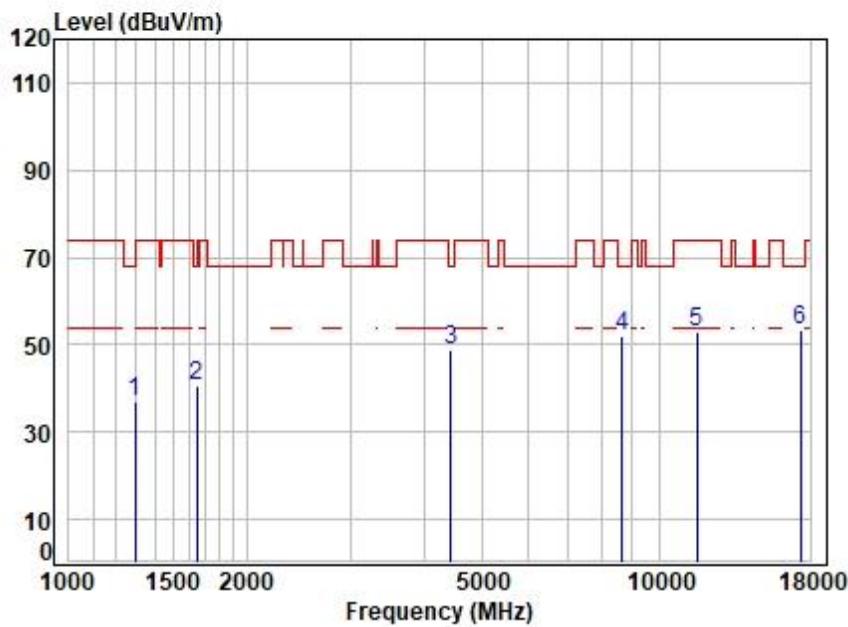
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Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
Mode : 5785 TX RSE
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over	Remark	
								MHz	dB
1	1297.103	3.36	24.25	52.73	62.00	36.88	68.20	-31.32	peak
2	1648.778	4.09	24.90	52.93	64.54	40.60	68.20	-27.60	peak
3	4443.453	7.47	30.12	52.94	64.14	48.79	68.20	-19.41	peak
4	8663.404	10.03	36.13	54.01	60.01	52.16	68.20	-16.04	peak
5	11570.000	11.60	39.72	53.83	55.22	52.71	74.00	-21.29	peak
6	17355.000	14.44	43.52	52.38	47.99	53.57	68.20	-14.63	peak



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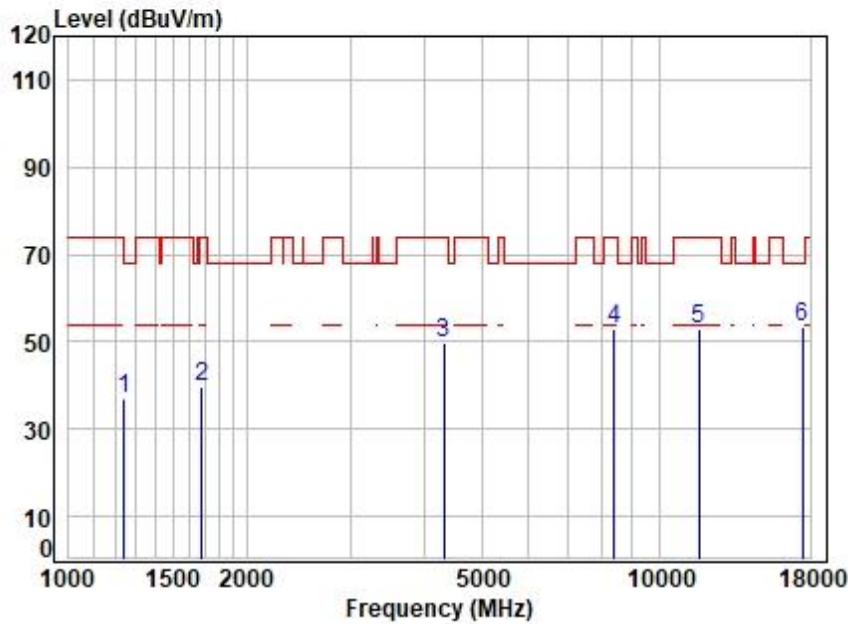
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Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5825 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	dB	dBuV	dBuV/m	dBuV/m	dB
1 1242.068	3.24	24.28	52.69	62.30	37.13	68.20	-31.07	peak
2 1677.621	4.15	24.96	52.95	63.58	39.74	74.00	-34.26	peak
3 4316.859	7.48	29.95	52.90	65.41	49.94	74.00	-24.06	peak
4 8392.292	9.62	36.16	53.84	60.83	52.77	74.00	-21.23	peak
5 11650.000	11.60	39.73	53.86	55.57	53.04	74.00	-20.96	peak
6 17475.000	14.48	44.16	52.31	47.10	53.43	68.20	-14.77	peak

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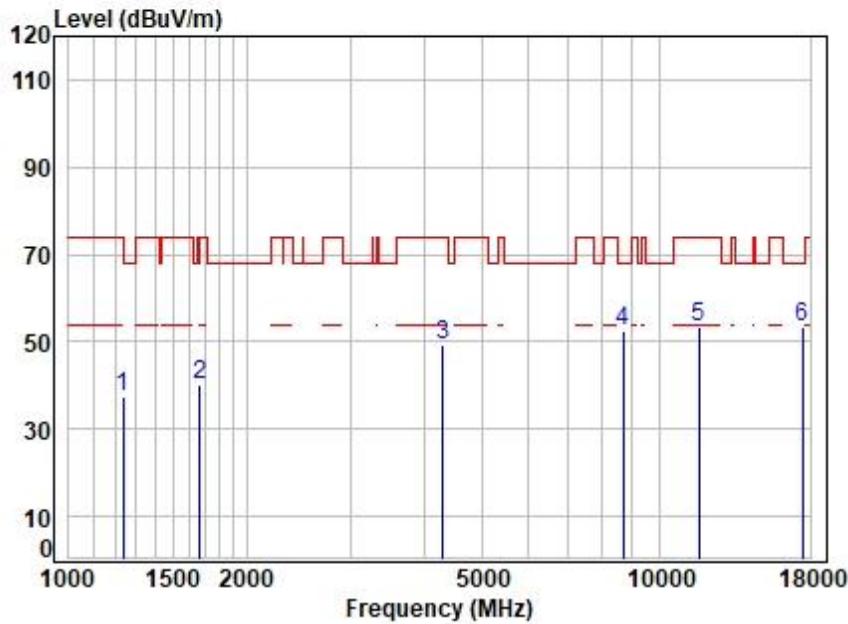
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Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
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 1238.483	3.24	24.28	52.69	62.70	37.53	74.00	-36.47	peak
2 1667.951	4.13	24.94	52.94	63.95	40.08	74.00	-33.92	peak
3 4304.400	7.48	29.94	52.90	64.91	49.43	74.00	-24.57	peak
4 8688.480	10.08	36.13	54.02	60.17	52.36	68.20	-15.84	peak
5 11650.000	11.60	39.73	53.86	55.69	53.16	74.00	-20.84	peak
6 17475.000	14.48	44.16	52.31	47.12	53.45	68.20	-14.75	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 & Subpart E 15.407(b)

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

Measurement Distance: 3m

Limit:

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

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

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

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

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

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

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C

Humidity: 45 % RH

Atmospheric Pressure: 1020 mbar



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7.9.2 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.

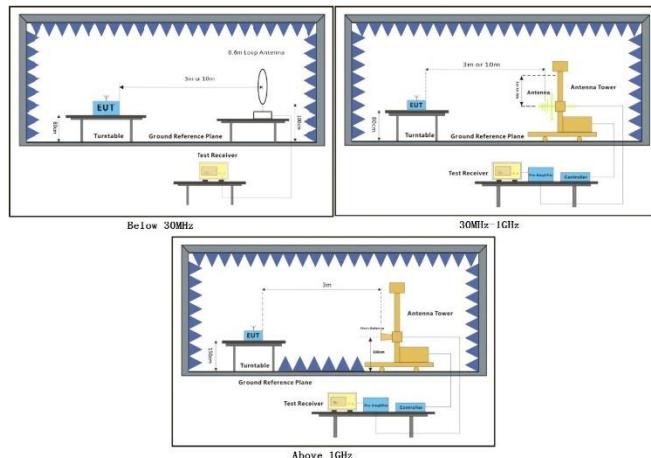
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7.9.3 Test Setup Diagram**7.9.4 Measurement Procedure and Data**

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

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



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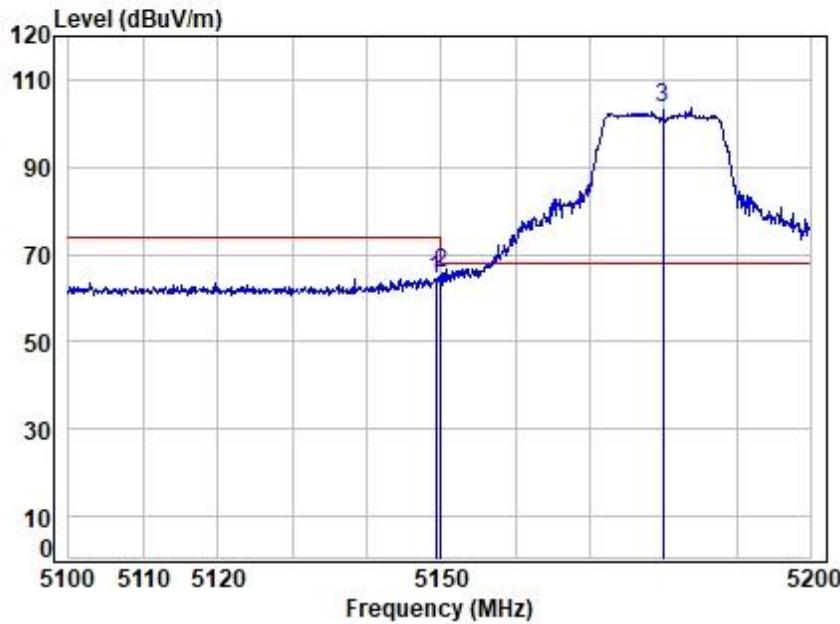
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR221100047305

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5180 Band edge
: 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 5149.257	8.29	31.77	31.82	56.24	64.48	74.00	-9.52	peak
2 5150.000	8.29	31.77	31.82	57.68	65.92	68.20	-2.28	peak
3 . 5180.000	8.29	31.85	31.86	95.12	103.40	68.20	35.20	peak

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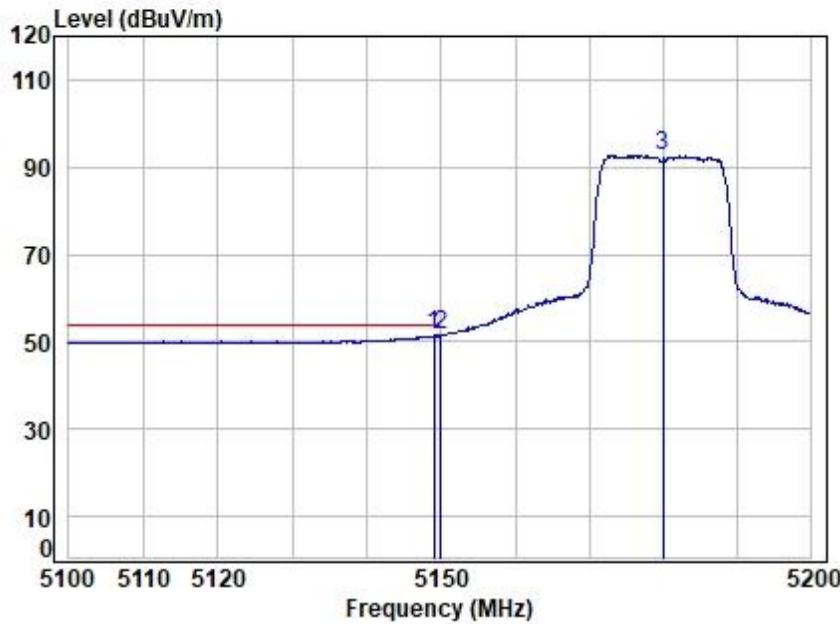
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5180 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5149.057	8.29	31.77	31.82	43.19	51.43	54.00	-2.57 Average
2 5149.980	8.29	31.77	31.82	43.33	51.57	54.00	-2.43 Average
3 5180.000	8.29	31.85	31.86	84.53	92.81	-----	Average



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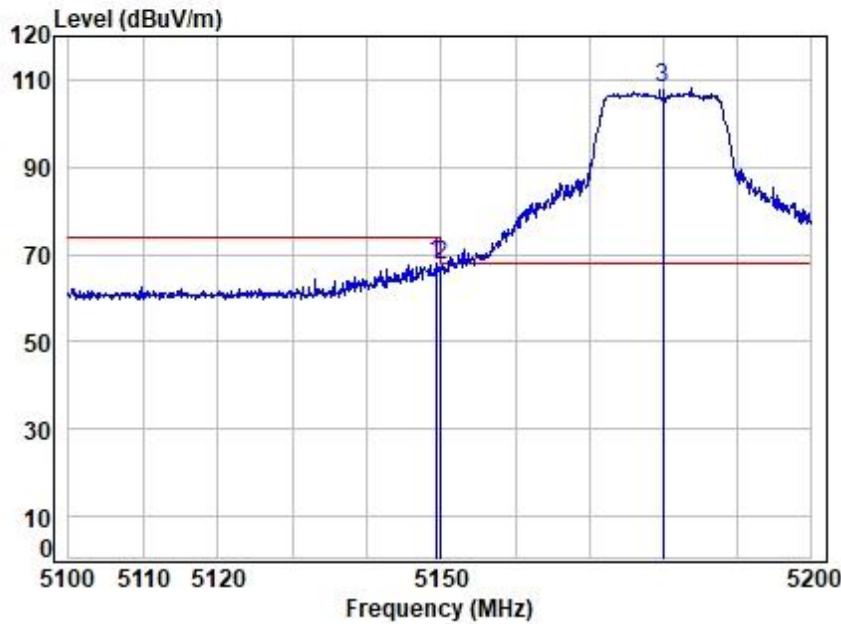
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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00473AT

Mode : 5180 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5149.257	8.29	31.77	31.82	59.65	67.89	74.00	-6.11 Peak
2 5150.000	8.29	31.77	31.82	59.31	67.55	68.20	-0.65 Peak
3 . 5180.000	8.29	31.85	31.86	99.68	107.96	68.20	39.76 Peak



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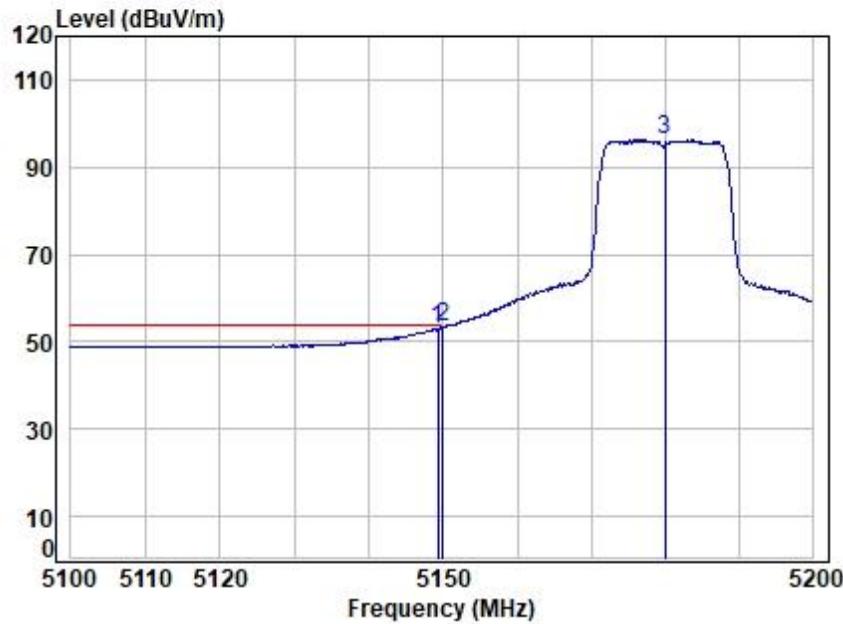
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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00473AT

Mode : 5180 Band edge
: 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	dBuV/m
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5149.257	8.29	31.77	31.82	44.72	52.96	54.00	-1.04	Average	
2 5149.980	8.29	31.77	31.82	45.27	53.51	54.00	-0.49	Average	
3 5180.000	8.29	31.85	31.86	87.95	96.23	-----	-----	Average	

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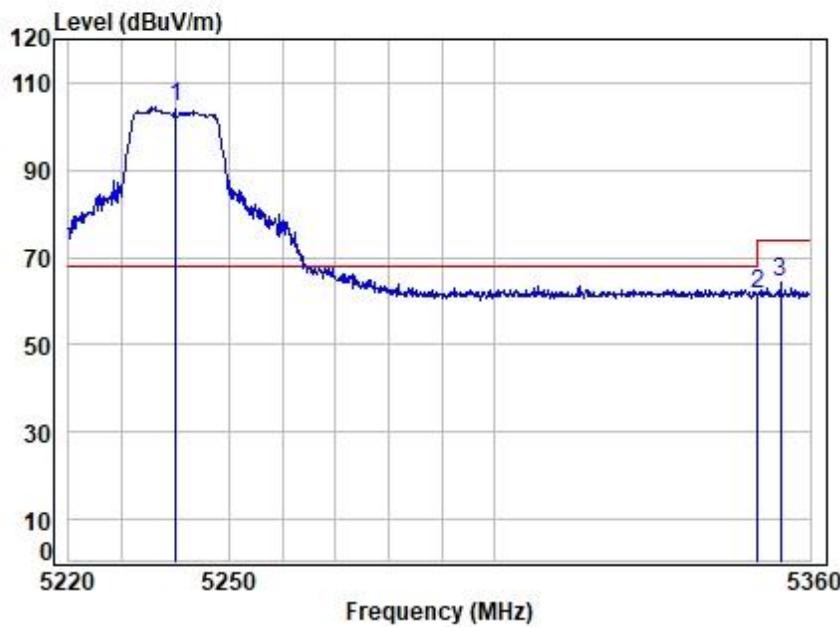
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5240 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 5240.000	8.29	31.99	31.94	96.12	104.46	68.20	36.26 peak
2 5350.020	8.28	32.25	32.10	53.07	61.50	74.00	-12.50 peak
3 5354.329	8.28	32.26	32.10	55.96	64.40	74.00	-9.60 peak

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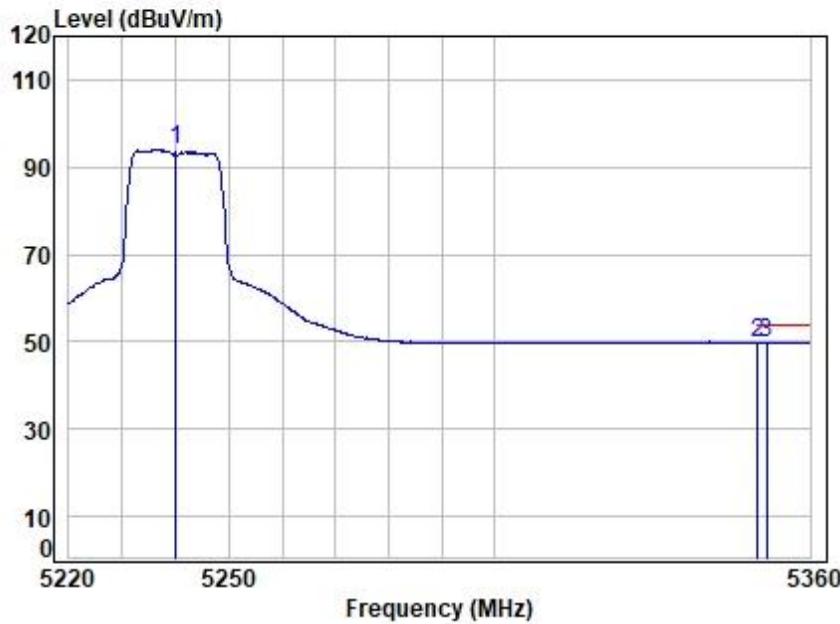
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Report No.: FYCR221100047305

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5240 Band edge
: 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 5240.000	8.29	31.99	31.94	85.58	93.92	-----	-----	Average
2 5350.020	8.28	32.25	32.10	41.43	49.86	54.00	-4.14	Average
3 5351.778	8.28	32.26	32.10	41.48	49.92	54.00	-4.08	Average

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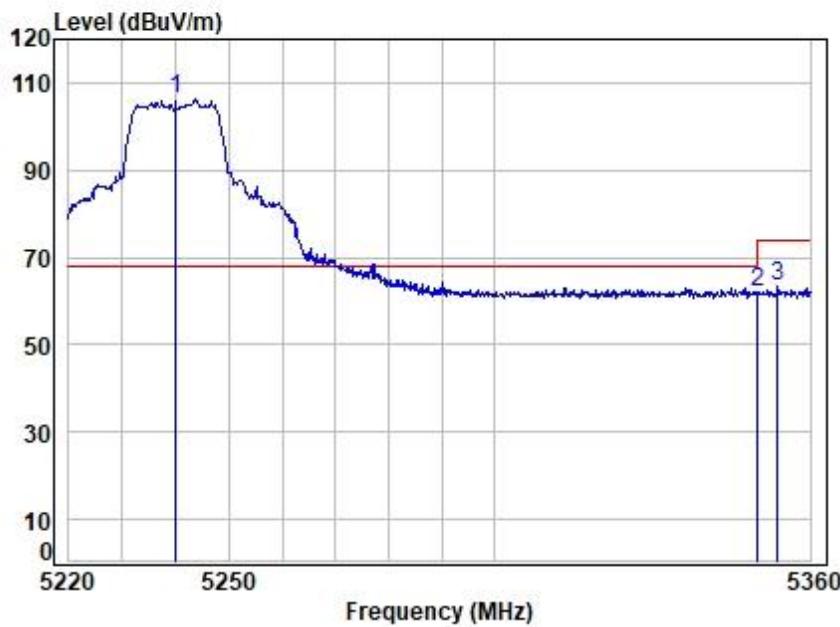
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047305

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00473AT

Mode : 5240 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 5240.000	8.29	31.99	31.94	97.89	106.23	68.20	38.03 Peak
2 5350.020	8.28	32.25	32.10	53.44	61.87	74.00	-12.13 Peak
3 5353.762	8.28	32.26	32.10	54.79	63.23	74.00	-10.77 Peak



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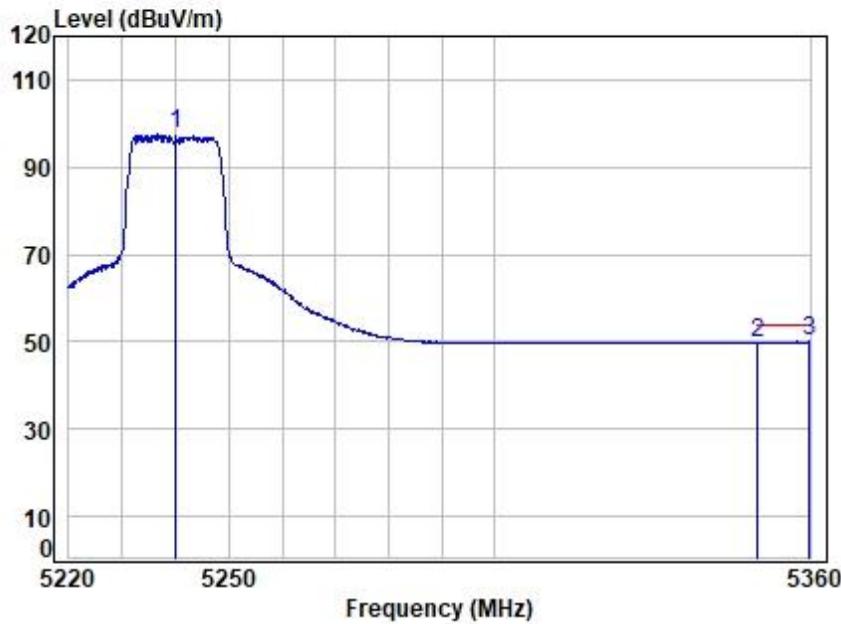
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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00473AT

Mode : 5240 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Over Remark
				Level	dBuV	dBuV/m	dBuV/m
MHz	dB	dB/m	dB				
1 5240.000	8.29	31.99	31.94	89.22	97.56	-----	Average
2 5350.020	8.28	32.25	32.10	41.42	49.85	54.00	-4.15 Average
3 5359.858	8.28	32.28	32.11	41.59	50.04	54.00	-3.96 Average



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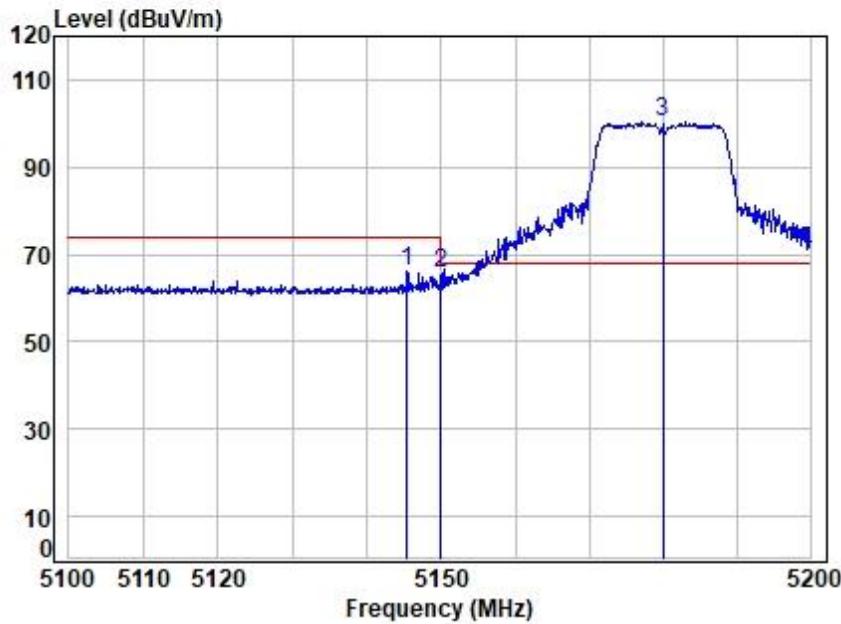
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5180 Band edge
: 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 5145.359	8.29	31.76	31.81	57.77	66.01	74.00	-7.99 peak
2 5149.980	8.29	31.77	31.82	57.29	65.53	74.00	-8.47 peak
3 . 5180.000	8.29	31.85	31.86	91.95	100.23	68.20	32.03 peak



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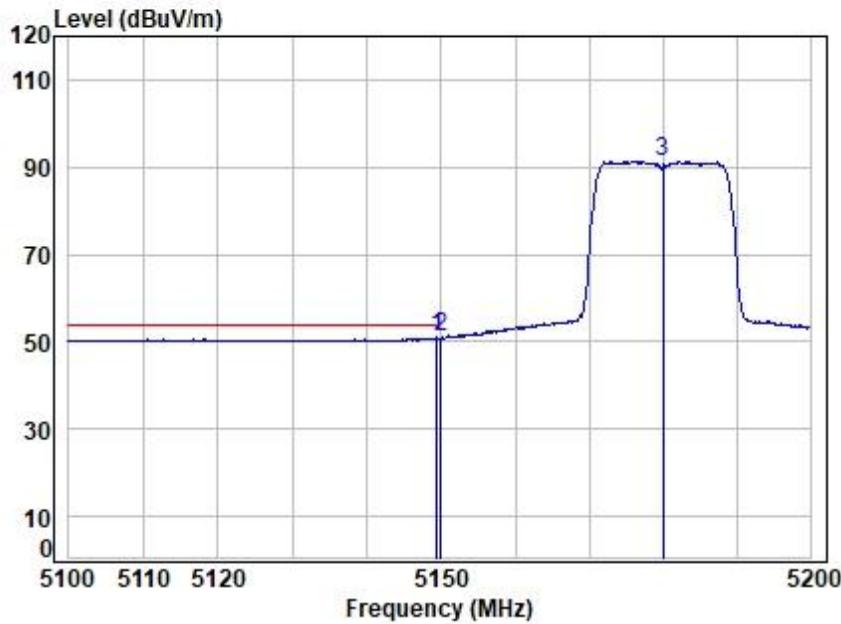
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5180 Band edge
: 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 5149.458	8.29	31.77	31.82	42.74	50.98	54.00	-3.02 Average
2 5149.980	8.29	31.77	31.82	42.66	50.90	54.00	-3.10 Average
3 5180.000	8.29	31.85	31.86	83.16	91.44	-----	Average



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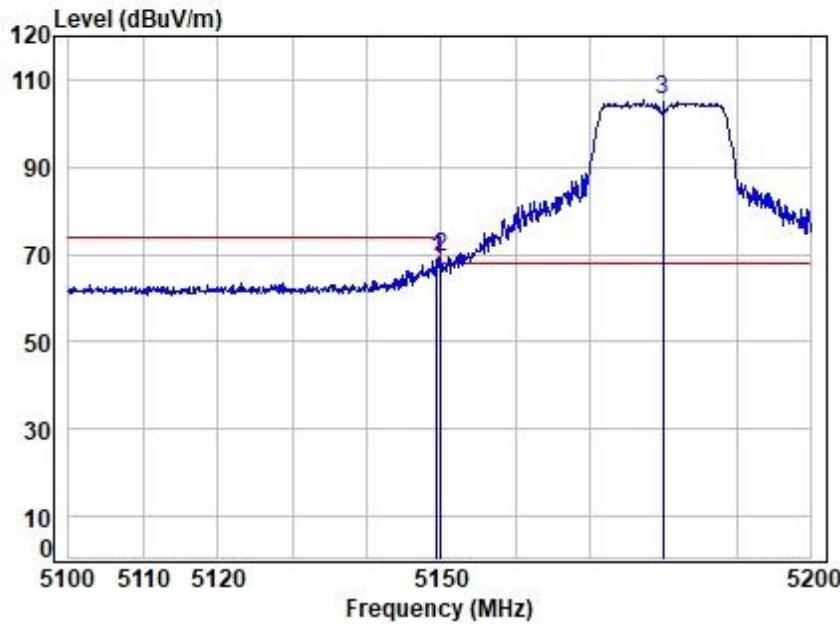
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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00473AT

Mode : 5180 Band edge
: 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 5149.357	8.29	31.77	31.82	60.54	68.78	74.00	-5.22 Peak
2 5149.980	8.29	31.77	31.82	61.24	69.48	74.00	-4.52 Peak
3 . 5180.000	8.29	31.85	31.86	97.00	105.28	68.20	37.08 Peak

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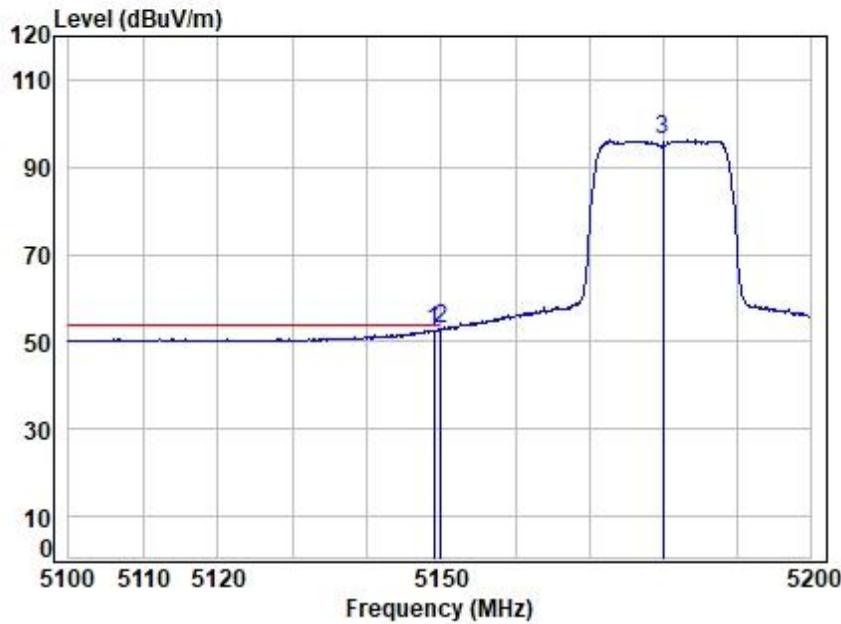
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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
Mode : 5180 Band edge
: 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 5148.958	8.29	31.77	31.82	44.46	52.70	54.00	-1.30	Average
2 5149.980	8.29	31.77	31.82	44.66	52.90	54.00	-1.10	Average
3 5180.000	8.29	31.85	31.86	87.80	96.08	-----	-----	Average



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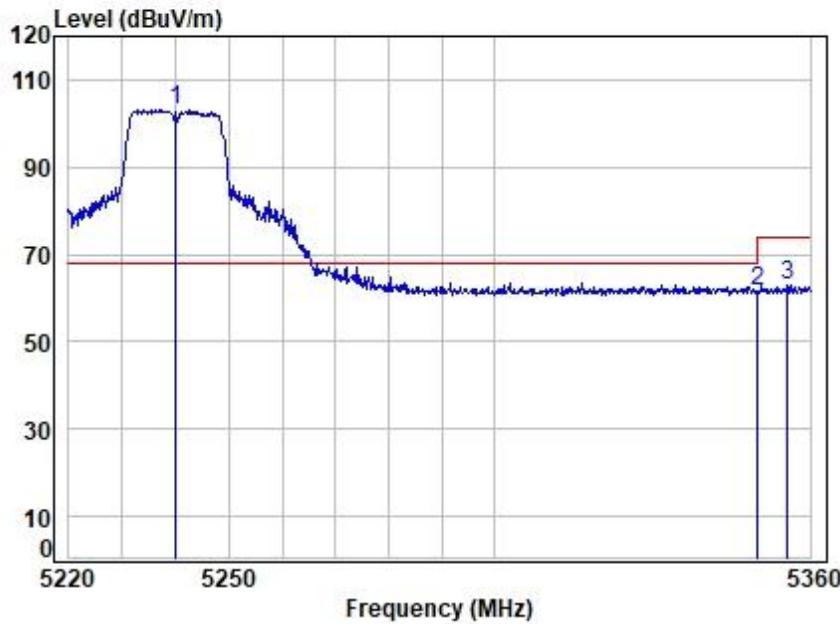
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5240 Band edge
: 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 . 5240.000	8.29	31.99	31.94	94.89	103.23	68.20	35.03	peak
2 5350.020	8.28	32.25	32.10	53.32	61.75	74.00	-12.25	peak
3 5355.746	8.28	32.27	32.10	54.71	63.16	74.00	-10.84	peak

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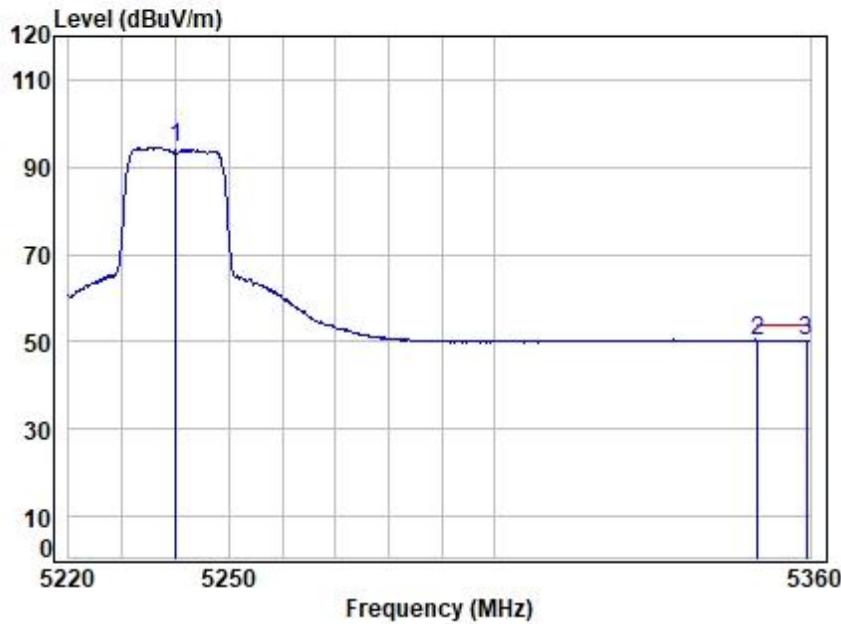
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5240 Band edge
: 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	dBuV/m
MHz									
1 5240.000	8.29	31.99	31.94	86.20	94.54	-----	-----	Average	
2 5350.020	8.28	32.25	32.10	41.88	50.31	54.00	-3.69	Average	
3 5359.291	8.28	32.27	32.11	41.97	50.41	54.00	-3.59	Average	

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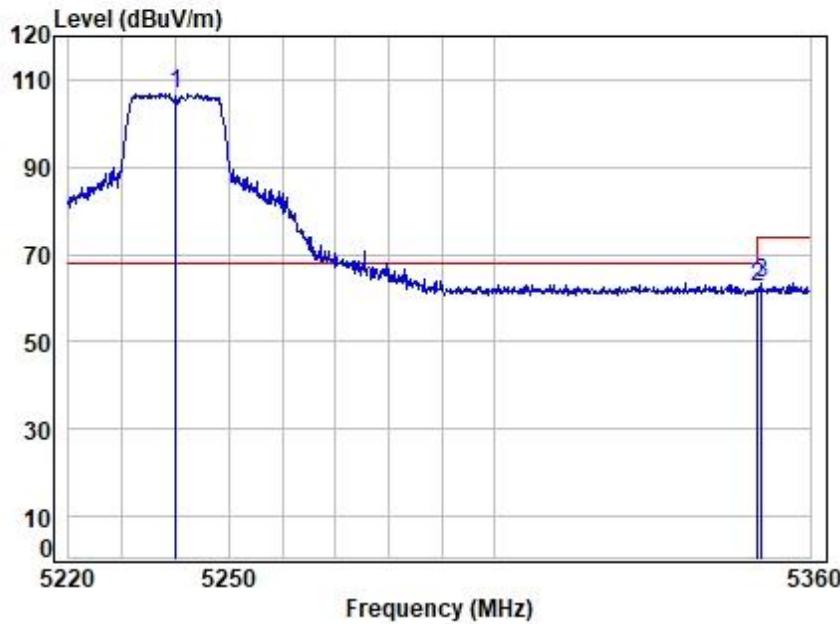
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR221100047305

Page: 100 of 344

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
Mode : 5240 Band edge
: 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 . 5240.000	8.29	31.99	31.94	98.64	106.98	68.20	38.78 Peak
2 5350.020	8.28	32.25	32.10	54.11	62.54	74.00	-11.46 Peak
3 5350.787	8.28	32.25	32.10	54.86	63.29	74.00	-10.71 Peak

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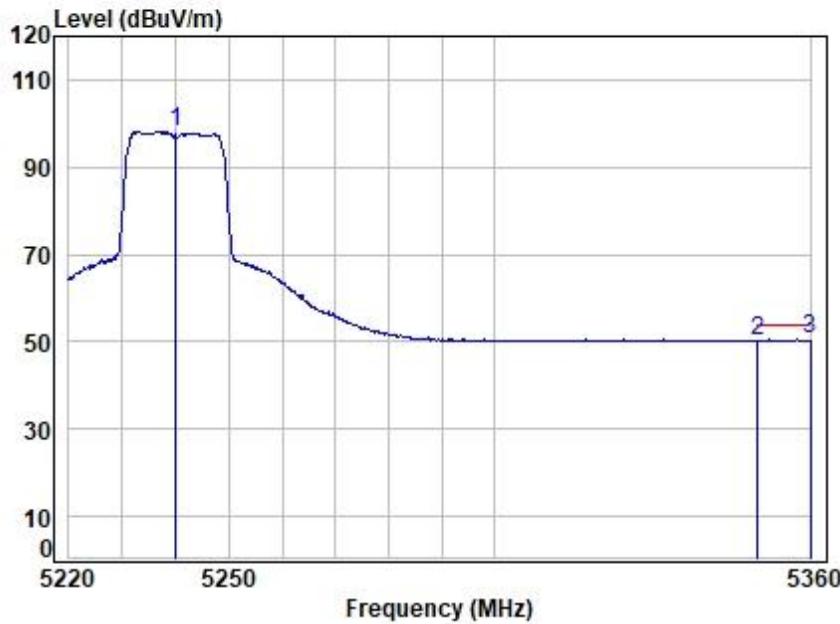
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047305

Page: 101 of 344

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00473AT
Mode : 5240 Band edge
: 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 5240.000	8.29	31.99	31.94	89.98	98.32	-----	-----	Average
2 5350.020	8.28	32.25	32.10	41.78	50.21	54.00	-3.79	Average
3 5360.000	8.28	32.28	32.11	42.00	50.45	54.00	-3.55	Average



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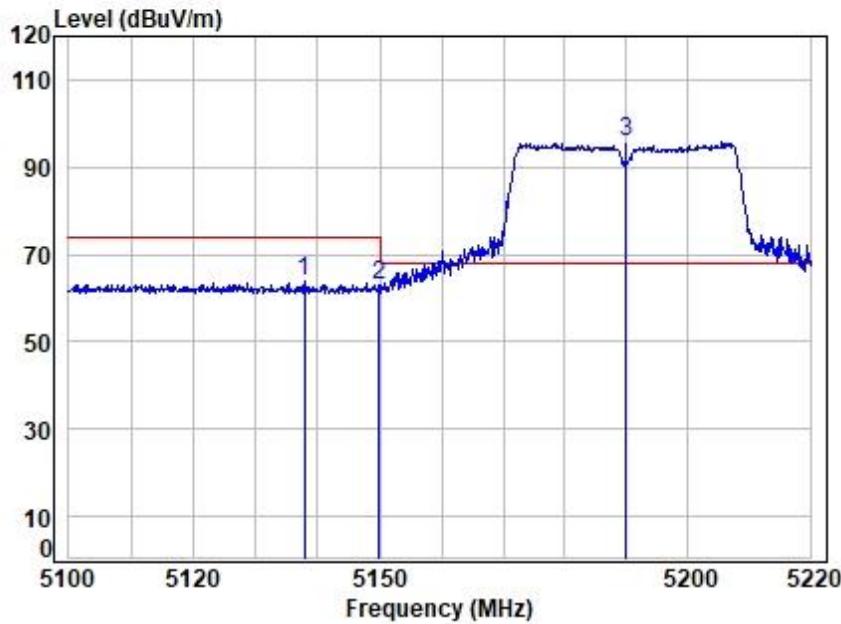
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Report No.: FYCR221100047305

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5190 Band edge
: 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Over Remark	
				dB	dB/m	dB	dBuV	dBuV/m	dBuV/m
MHz									
1	5137.858	8.29	31.74	31.80	55.43	63.66	74.00	-10.34	peak
2	5149.980	8.29	31.77	31.82	54.89	63.13	74.00	-10.87	peak
3	5190.000	8.29	31.87	31.87	87.47	95.76	68.20	27.56	peak



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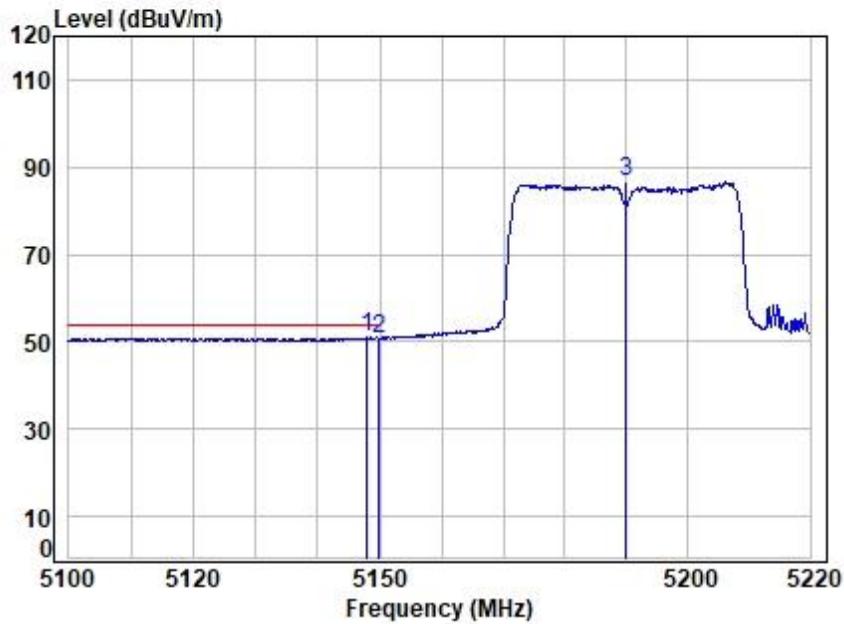
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR221100047305

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5190 Band edge
: 5G WIFI 11N40

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 5147.905	8.29	31.77	31.81	43.01	51.26	54.00	-2.74 Average
2 5149.980	8.29	31.77	31.82	42.56	50.80	54.00	-3.20 Average
3 5190.000	8.29	31.87	31.87	78.33	86.62	-----	----- Average

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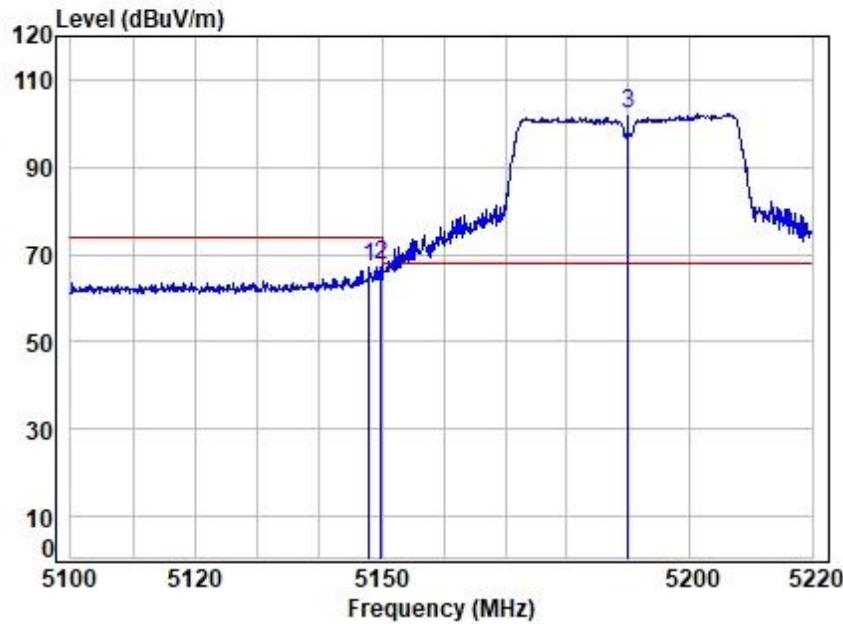
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00473AT

Mode : 5190 Band edge
: 5G WIFI 11N40

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 5148.024	8.29	31.77	31.81	58.94	67.19	74.00	-6.81 Peak
2 5149.980	8.29	31.77	31.82	59.33	67.57	74.00	-6.43 Peak
3 . 5190.000	8.29	31.87	31.87	93.98	102.27	68.20	34.07 Peak

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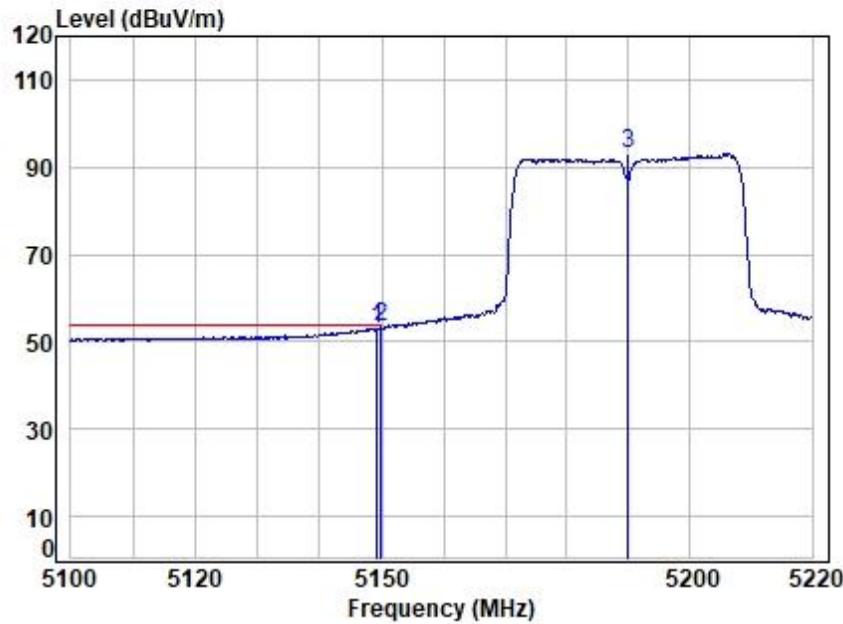
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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00473AT

Mode : 5190 Band edge
: 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Over Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5149.342	8.29	31.77	31.82	44.76	53.00	54.00	-1.00 Average
2 5149.980	8.29	31.77	31.82	44.97	53.21	54.00	-0.79 Average
3 5190.000	8.29	31.87	31.87	84.71	93.00	-----	----- Average



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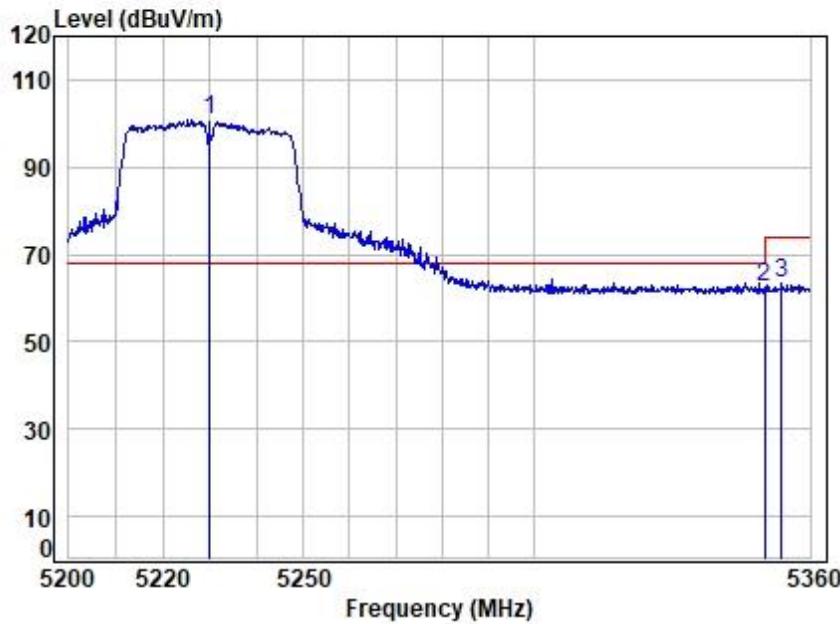
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Report No.: FYCR221100047305

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5230 Band edge
: 5G WIFI 11N40

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 . 5230.000	8.29	31.97	31.93	92.40	100.73	68.20	32.53 peak
2 5350.020	8.28	32.25	32.10	54.05	62.48	74.00	-11.52 peak
3 5353.831	8.28	32.26	32.10	55.04	63.48	74.00	-10.52 peak

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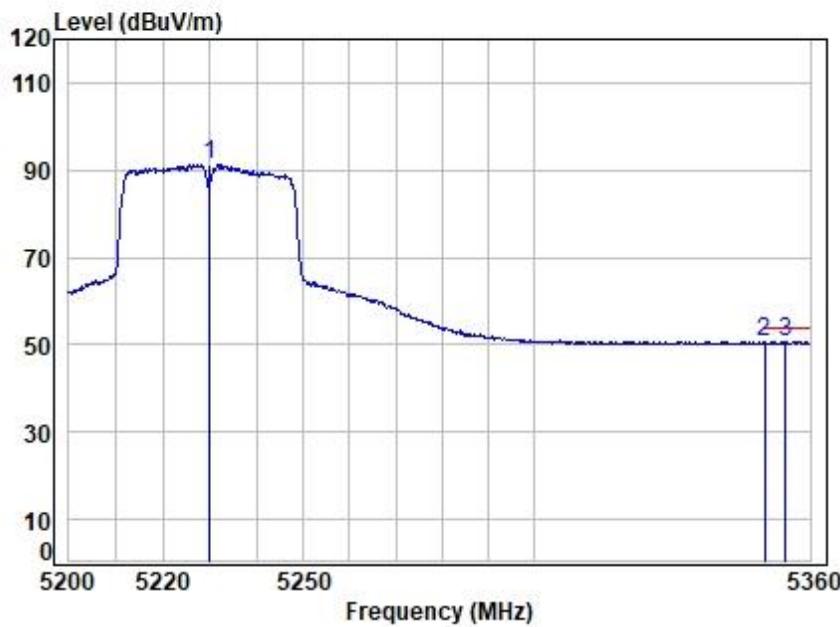
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5230 Band edge
: 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 5230.000	8.29	31.97	31.93	82.95	91.28	-----	-----	Average
2 5350.020	8.28	32.25	32.10	42.06	50.49	54.00	-3.51	Average
3 5354.642	8.28	32.26	32.10	42.23	50.67	54.00	-3.33	Average

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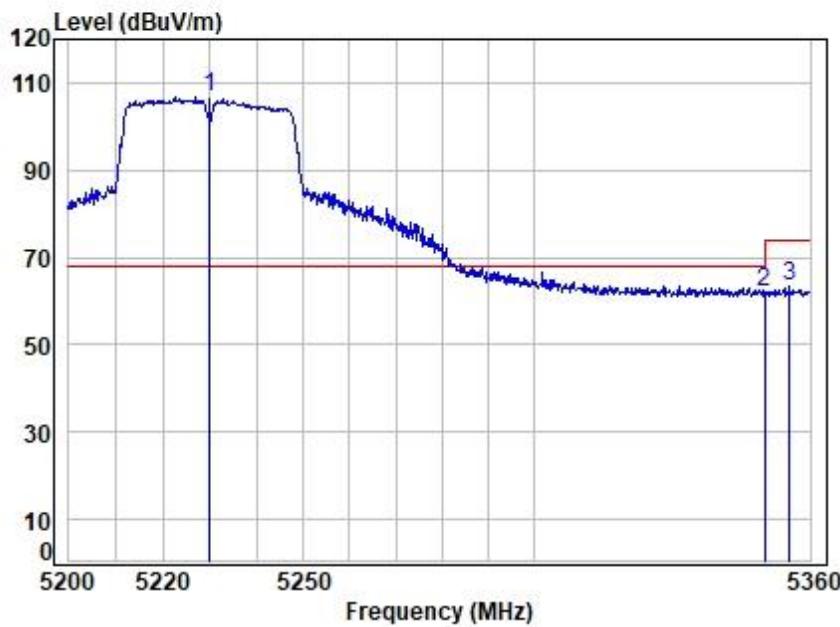
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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00473AT

Mode : 5230 Band edge
: 5G WIFI 11N40

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 . 5230.000	8.29	31.97	31.93	98.32	106.65	68.20	38.45 Peak
2 5350.020	8.28	32.25	32.10	53.85	62.28	74.00	-11.72 Peak
3 5355.454	8.28	32.26	32.10	54.88	63.32	74.00	-10.68 Peak



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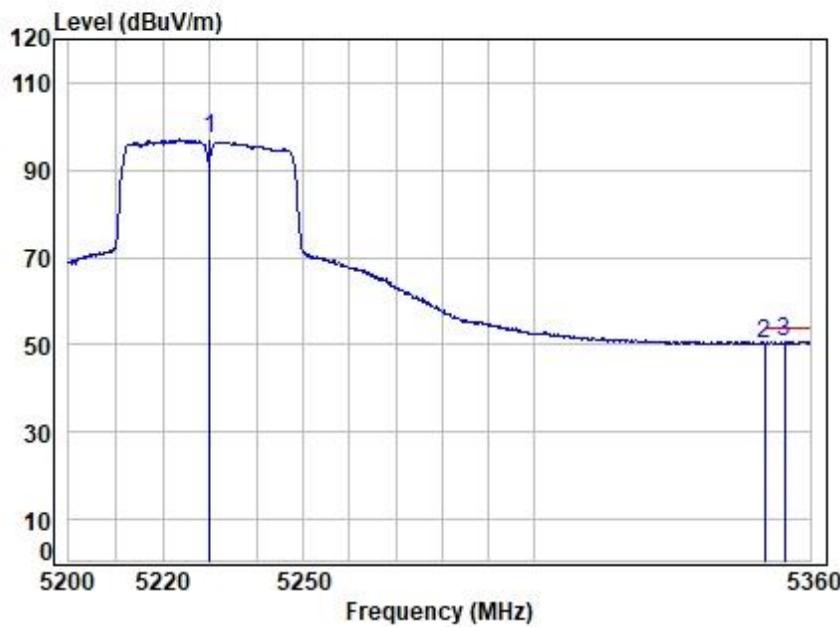
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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00473AT

Mode : 5230 Band edge
: 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Limit	Over	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 5230.000	8.29	31.97	31.93	88.68	97.01	-----	-----	Average
2 5350.020	8.28	32.25	32.10	41.95	50.38	54.00	-3.62	Average
3 5354.480	8.28	32.26	32.10	42.35	50.79	54.00	-3.21	Average

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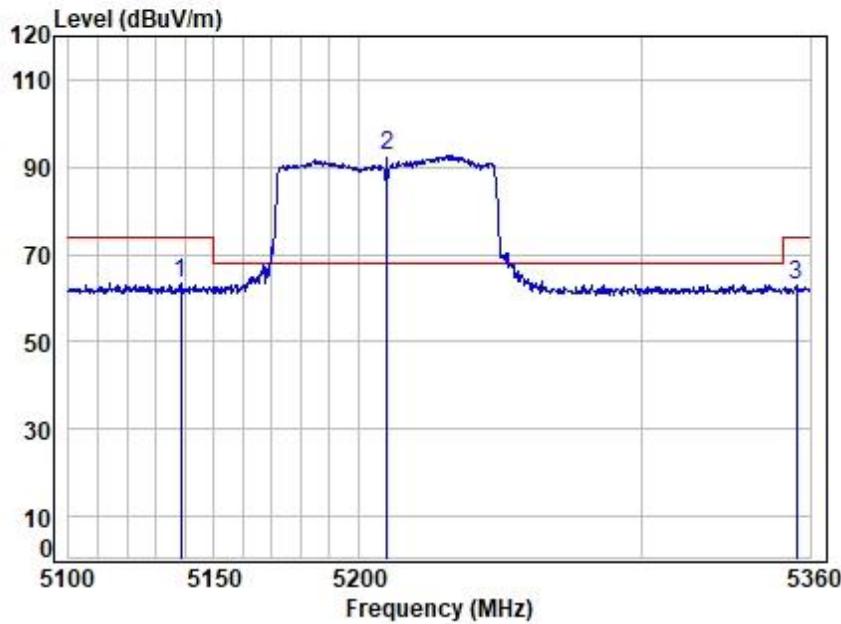
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR221100047305

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Limit	Over	Remark
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dB	
1 5138.436	8.29	31.74	31.80	55.18	63.41	74.00	-10.59	peak
2 5210.000	8.29	31.92	31.90	84.26	92.57	68.20	24.37	peak
3 5355.205	8.28	32.26	32.10	54.36	62.80	74.00	-11.20	peak



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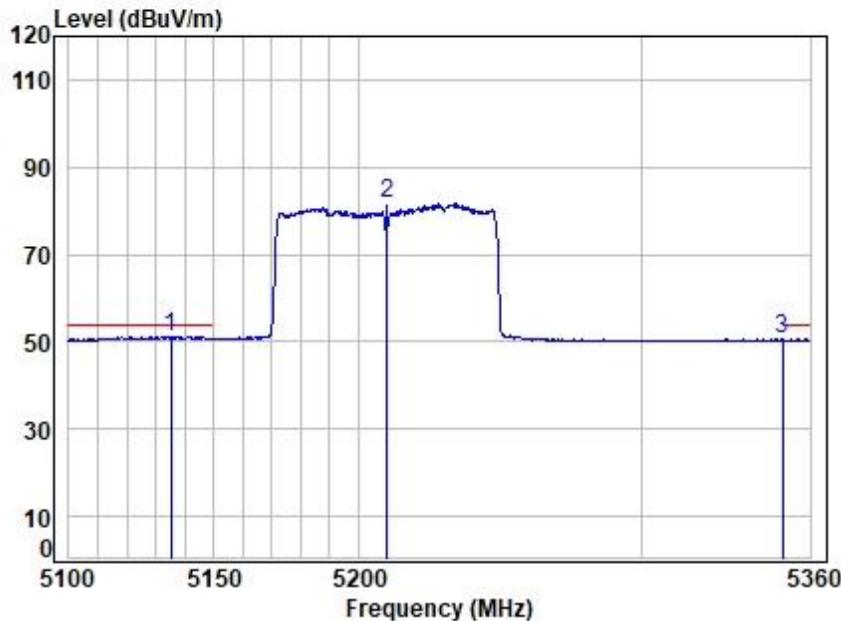
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00473AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Limit	Over	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 5135.116	8.29	31.74	31.80	43.01	51.24	54.00	-2.76	Average
2 5210.000	8.29	31.92	31.90	73.48	81.79	-----	-----	Average
3 5350.148	8.28	32.25	32.10	42.04	50.47	54.00	-3.53	Average



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