

TEST REPORT**Application No.:**

SZCR2404001162TL

Applicant:

Richer Link Technologies Co., Ltd

Address of Applicant:

1001, Floor 10, Building 3, Chongwen Park, Nanshan ZhiYuan, Liuxian Avenue, Nanshan District, Shenzhen City, China.

Manufacturer:

Richer Link Technologies Co., Ltd

Address of Manufacturer:

1001, Floor 10, Building 3, Chongwen Park, Nanshan ZhiYuan, Liuxian Avenue, Nanshan District, Shenzhen City, China.

Equipment Under Test (EUT):**EUT Name:** xPON ONT**Model No.:**

RL841GWV-AX3B, RL841GWV-AX3, RL804GW-AX3B, RL804GW-AX3, RL841GWV-AX3BH, RL821GWV-AX3, RL841GWVC-AX3B, FS8820A, FS8620A, RL820GW-AX3

•

Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Trade Mark:

Richer Link

FCC ID:

2BFXD-RL841GWV-AX3B

Standard(s) :

47 CFR Part 15, Subpart E 15.407

Date of Receipt:

2024-04-02

Date of Test:

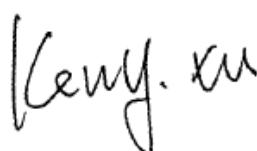
2024-04-08 to 2024-05-09

Date of Issue:

2024-05-10

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



Keny Xu

EMC Laboratory Manager



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400116203

Page: 2 of 528

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-05-10		Original

Authorized for issue by:			
		Edison Li/Project Engineer	
		Eric Fu/Reviewer	

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2 Test Summary

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

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

Remark:

Model No.: RL841GWV-AX3B, RL841GWV-AX3, RL804GW-AX3B, RL804GW-AX3, RL841GWV-AX3BH, RL821GWV-AX3, RL841GWVC-AX3B, FS8820A, FS8620A, RL820GW-AX3

The model RL841GWV-AX3B was fully tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on model No. and shell appearance.

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4 General Information

4.1 Details of E.U.T.

Power supply:	Power Adapter Model: RD1202000-C55-154MG Input: AC 100-240V, 50/60Hz, 1.0A Max Output: DC 12V, 2.0A			
Cable(s):	DC cable:120cm unshielded			
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
UNII Band I	802.11a/n/ac/ax(HT20)	5180-5240	4	
	802.11n/ac/ax(HT40)	5190-5230	2	
	802.11ac/ax(HT80)	5210	1	
UNII Band II-A	802.11a/n/ac/ax(HT20)	5260-5320	4	
	802.11n/ac/ax(HT40)	5270-5310	2	
	802.11ac/ax(HT80)	5290	1	
	802.11ac/ax(HT160)	5250	1	
UNII Band II-C	802.11a/n/ac/ax(HT20)	5500-5720	12	
	802.11n/ac/ax(HT40)	5510-5710	6	
	802.11ac/ax(HT80)	5530-5690	3	
	802.11ac/ax(HT160)	5570	1	
UNII Band III	802.11a/n/ac/ax(HT20)	5745-5825	5	
	802.11n/ac/ax(HT40)	5755-5795	2	
	802.11ac/ax(HT80)	5775	1	
Modulation Type:	802.11a: OFDM(QPSK, BPSK, 16QAM, 64QAM) 802.11n: OFDM(QPSK, BPSK, 16QAM, 64QAM) 802.11ac: OFDM(QPSK, BPSK, 16QAM, 64QAM, 256QAM) 802.11ax: OFDMA(QPSK, BPSK, 16QAM, 64QAM, 256QAM, 1024QAM)			
DFS Function:	Master			
TPC Function:	Support			
Antenna Type:	IPEX Antenna			
Antenna Gain:	Antenna1: 5.73dBi, Antenna2: 6.13dBi, Antenna3: 3.45dBi Note: MIMO for antenna 1, antenna2 and antenna3.			

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4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
RF Cable	SGS	N/A(0.6dB)	N/A

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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Duty Cycle	± 0.37%
99% Bandwidth	± 3%
26dB Emission bandwidth	± 3%
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	± 3%
Maximum Conducted output power	± 0.75dB
Peak Power spectrum density	± 2.84dB
Radiated Emissions which fall in the restricted bands	± 6.0dB (below 1GHz); ± 4.6dB (above 1GHz);
Radiated Emissions (Below 1GHz)	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions (Above 1GHz)	± 4.6dB (1-18GHz);± 4.8dB (18-40GHz)
Frequency Stability	± 7.25 x 10-8

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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SZEMC-TRF-01 Rev. A/1

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4.4 Test Location

All tests were performed at:

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

No tests were sub-contracted.

4.5 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

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

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

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

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

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

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2023-07-07	2024-07-06
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-09-19	2024-09-18
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26

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

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400116203

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Radiated Spurious Emissions Below 1GHz

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

Radiated Spurious Emissions Above 1GHz

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

General used equipment

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

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a 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 connector is a IPEX type that comply with Part15.203, the best case gain of the antenna1 is 5.73dBi, Antenna2: 6.13dBi, Antenna3: 3.45dBi.

The EUT support Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

For power measurements, directional Gain = 6.13dBi.

For power spectral density measurements, Directional gain = GANT + Array Gain = 6.13 + 10*log(3/1) = 10.90dBi.

The EUT also supports beamforming mode, and the beamforming support 802.11a/b/g/n/ac/ax only.

For beamforming operation, manufacturer automatically backs power down based on a 10log (NANT) factor based on CDD power, Therefore, only the CDD mode was evaluated in this report.

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

6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details:

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



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7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)

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

Limit:

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

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report.
Pre-scan	03	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.
Pre-scan	04	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is

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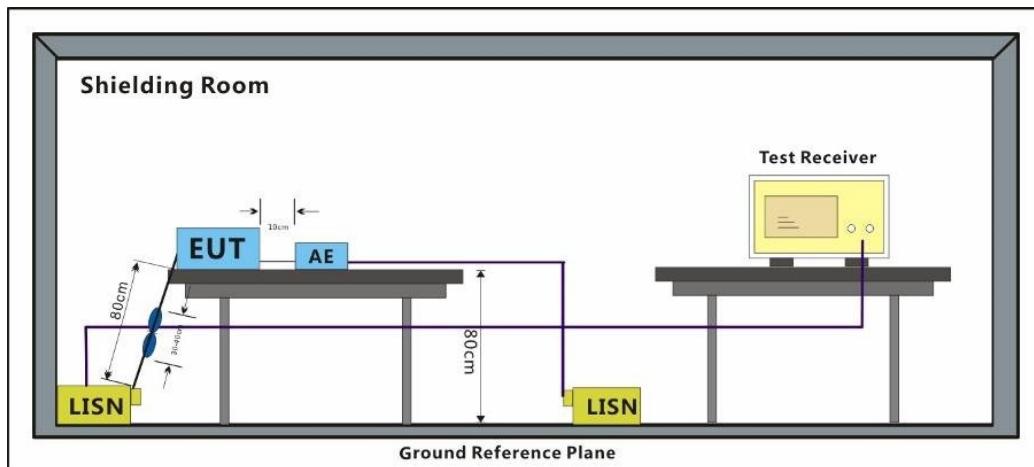
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		the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report.
Pre-scan	05	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). 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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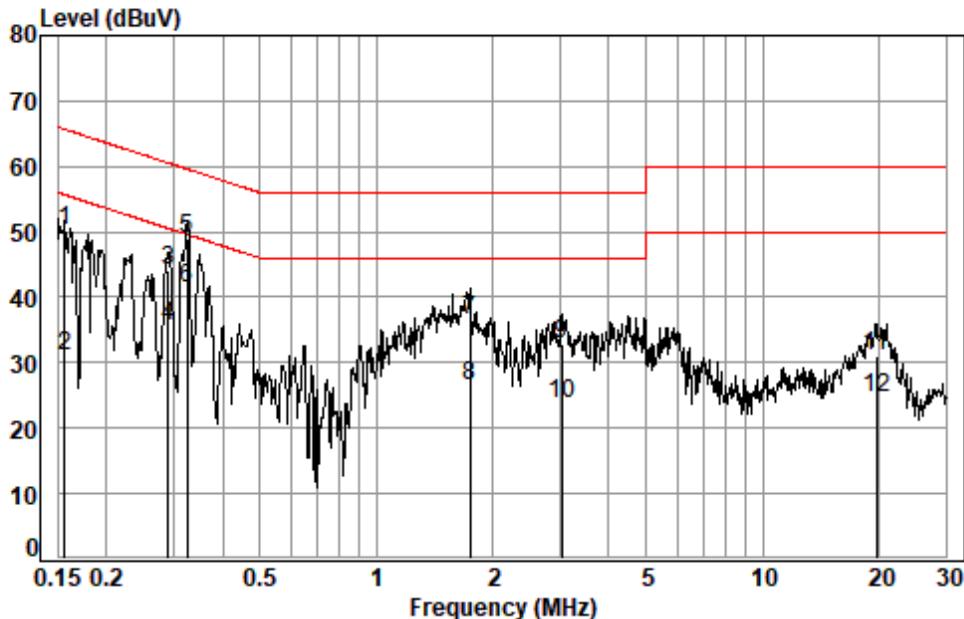
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Test Mode: 02; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 01162TL

Test mode: 02

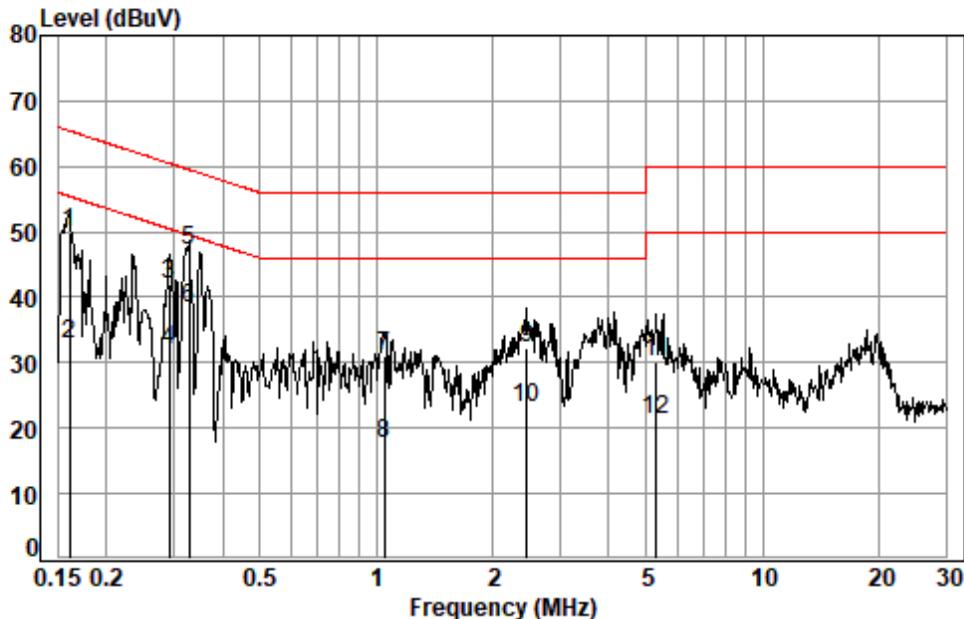
Freq	Cable	LISN	Read	Limit		Over	Remark
	Freq	Loss	Factor	Level	Level	Line	
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.1565	0.02	9.89	40.25	50.16	65.65	-15.49 QP
2	0.1565	0.02	9.89	21.11	31.02	55.65	-24.63 Average
3	0.2893	0.03	10.00	33.94	43.97	60.54	-16.57 QP
4	0.2893	0.03	10.00	25.44	35.47	50.54	-15.07 Average
5 *	0.3234	0.03	10.02	38.83	48.88	59.62	-10.74 QP
6 *	0.3234	0.03	10.02	31.40	41.45	49.62	-8.17 Average
7	1.7529	0.07	10.01	26.30	36.38	56.00	-19.62 QP
8	1.7529	0.07	10.01	16.38	26.46	46.00	-19.54 Average
9	3.0253	0.08	10.04	22.80	32.92	56.00	-23.08 QP
10	3.0253	0.08	10.04	13.48	23.60	46.00	-22.40 Average
11	19.7397	0.27	10.21	20.58	31.06	60.00	-28.94 QP
12	19.7397	0.27	10.21	14.22	24.70	50.00	-25.30 Average

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Test Mode: 02; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 01162TL

Test mode: 02

Freq	Cable	LISN	Read	Limit	Over	Remark	
	Freq	Loss	Factor				
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.1607	0.02	9.89	39.91	49.82	65.43	-15.61 QP
2	0.1607	0.02	9.89	23.03	32.94	55.43	-22.49 Average
3	0.2909	0.03	9.91	32.01	41.95	60.50	-18.55 QP
4	0.2909	0.03	9.91	22.00	31.94	50.50	-18.56 Average
5 *	0.3268	0.03	9.92	37.15	47.10	59.53	-12.43 QP
6 *	0.3268	0.03	9.92	28.27	38.22	49.53	-11.31 Average
7	1.0485	0.06	9.97	20.92	30.95	56.00	-25.05 QP
8	1.0485	0.06	9.97	7.61	17.64	46.00	-28.36 Average
9	2.4476	0.07	9.96	22.27	32.30	56.00	-23.70 QP
10	2.4476	0.07	9.96	13.12	23.15	46.00	-22.85 Average
11	5.3050	0.09	10.02	20.11	30.22	60.00	-29.78 QP
12	5.3050	0.09	10.02	11.10	21.21	50.00	-28.79 Average

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7.2 Duty Cycle

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C Humidity: 38.2 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report.
Final test	03	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.
Final test	04	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report.
Final test	05	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.

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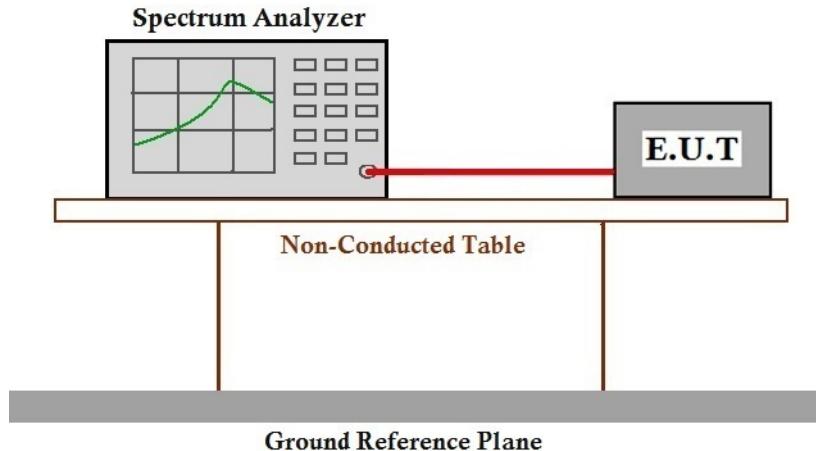
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7.2.3 Test Setup Diagram**7.2.4 Measurement Procedure and Data**

Please Refer to Appendix for Details

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7.3 99% Bandwidth

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

7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 24.3 °C Humidity: 38.2 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

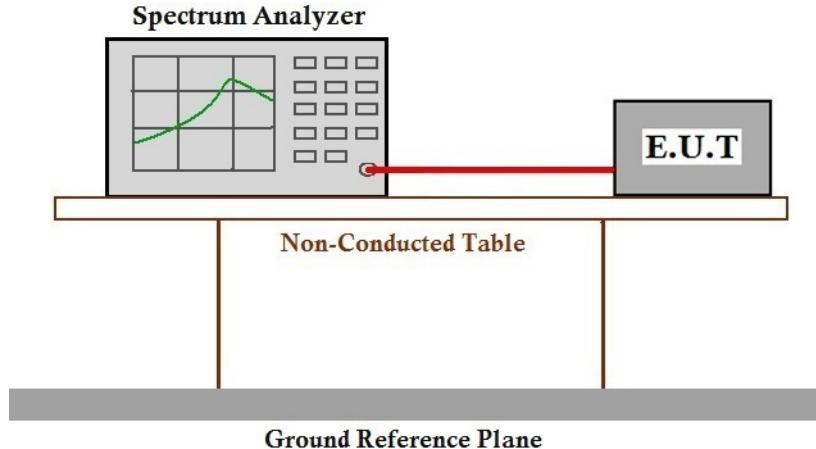
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report.
Final test	03	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.
Final test	04	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report.
Final test	05	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.

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

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7.4 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C Humidity: 38.2 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

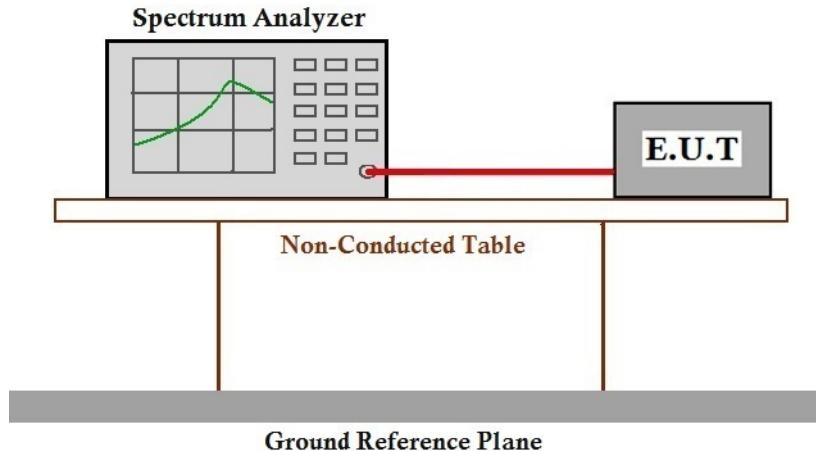
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report.
Final test	03	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.
Final test	04	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report.
Final test	05	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). 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**

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

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

Test Method: KDB 789033 D02 II C 2

Limit:

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C Humidity: 38.2 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report.
Final test	03	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40). Only the data of worst case is recorded in the report.
Final test	04	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report.
Final test	05	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case

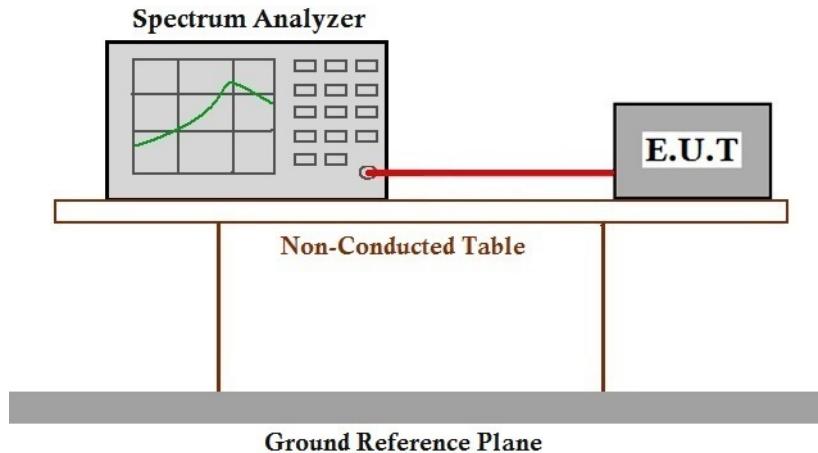
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		IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.
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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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7.6 Maximum Conducted output power

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

Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(23.98dBm) for client device
5250-5350	≤250mW(23.98dBm) or 11dBm+10logB*
5470-5725	≤250mW(23.98dBm) or 11dBm+10logB*
5725-5850	≤1W(30dBm)

Remark:

* Where B is the 26dB emission bandwidth in MHz.

The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C Humidity: 38.2 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report.
Final test	03	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.
Final test	04	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of

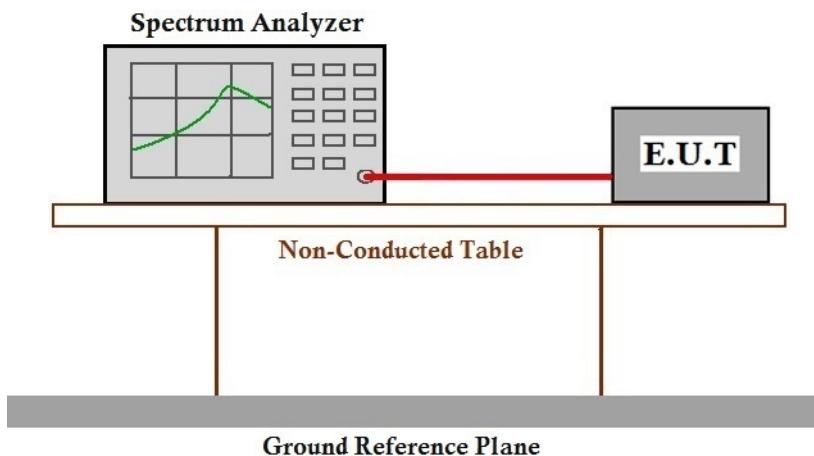
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		IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report.
Final test	05	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). 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

Note: In the measure-and-sum approach for MIMO mode, the conducted emission level (e.g., transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically in linear power units to determine the total emission level from the device. When MIMO mode is running each single antenna conducted output power is reduced by 3dBi such that MIMO mode does not exceed the output of a single chain in SISO mode.

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7.7 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz

Remark:

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C Humidity: 38.2 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report.
Final test	03	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.
Final test	04	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is

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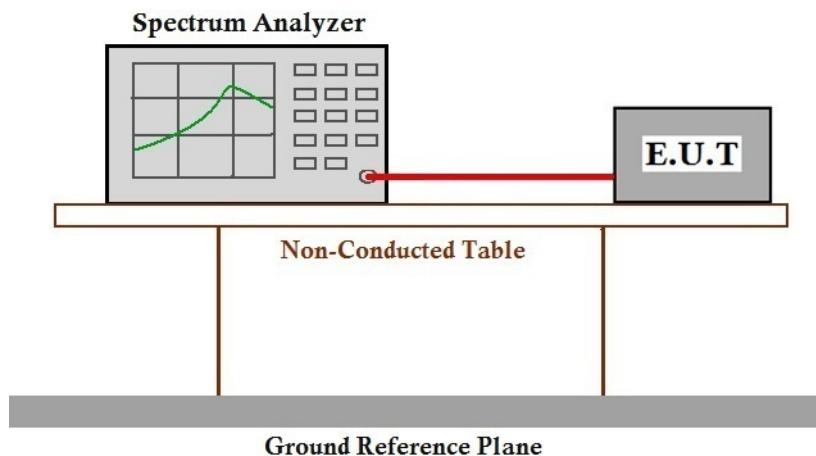
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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

		the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report.
Final test	05	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

Note: In the measure-and-sum approach for MIMO mode, the conducted emission level (e.g., transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically in linear power units to determine the total emission level from the device. When MIMO mode is running each single antenna conducted output power is reduced by 3dB such that MIMO mode does not exceed the output of a single chain in SISO mode.

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7.8 Radiated Emissions which fall in the restricted bands

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

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

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

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

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

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

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 19.8 °C Humidity: 53.6 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400116203

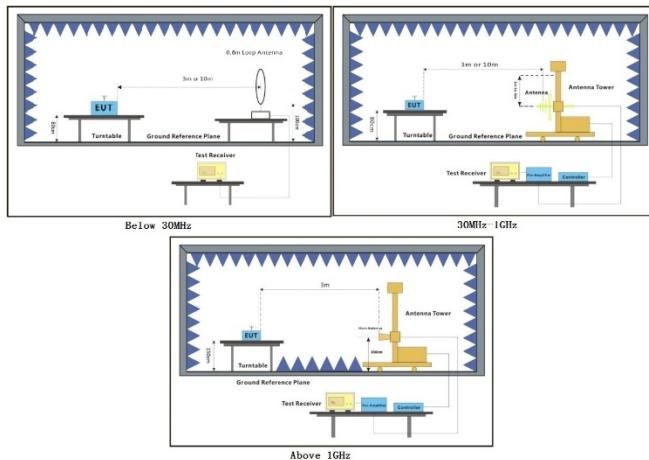
Page: 31 of 528

		found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report.
Final test	03	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40). Only the data of worst case is recorded in the report.
Final test	04	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report.
Final test	05	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.

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7.8.3 Test Setup Diagram



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7.8.4 Measurement Procedure and Data

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

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: 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 widest bandwidth which can be covered the same channel (center frequency) on modes with narrower bandwidth that have the same or lower output power for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.

Remark 3: All modes and channels have been tested, only record the worst test result.

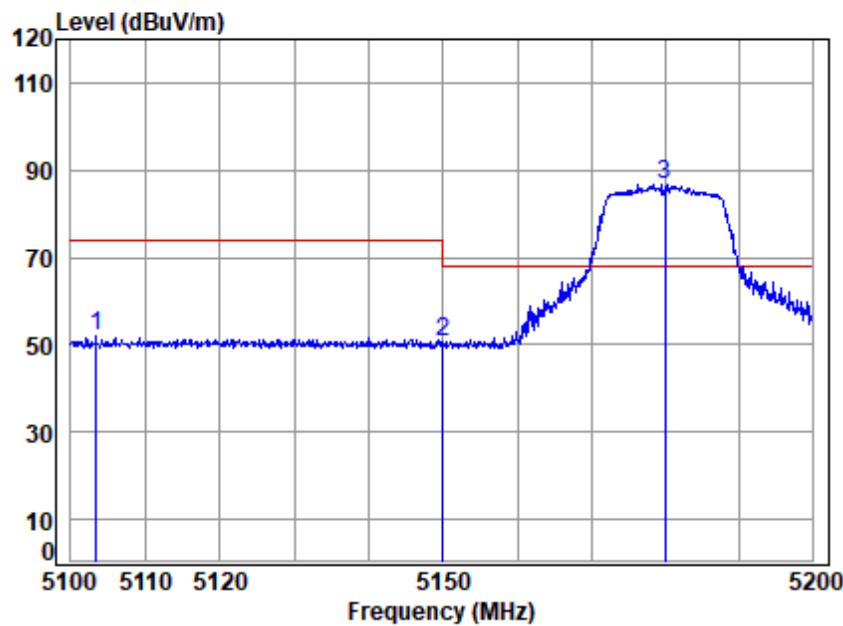
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5180 Band edge
: 5G WIFI 11A

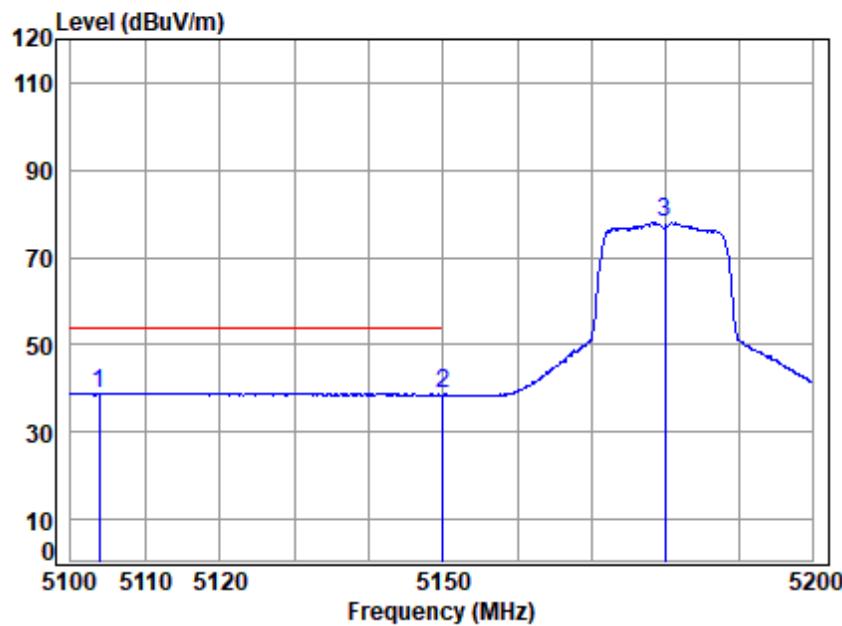
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5103.368	7.51	33.99	35.34	45.71	51.87	74.00	-22.13 peak
2 5149.980	7.55	33.90	35.31	44.32	50.46	74.00	-23.54 peak
3 p 5180.000	7.57	33.96	35.29	80.68	86.92	68.20	18.72 peak

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
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 q 5103.864	7.51	33.99	35.33	32.80	38.97	54.00	-15.03 Average
2 5149.980	7.55	33.90	35.31	32.47	38.61	54.00	-15.39 Average
3 5180.000	7.57	33.96	35.29	71.66	77.90	-----	----- Average

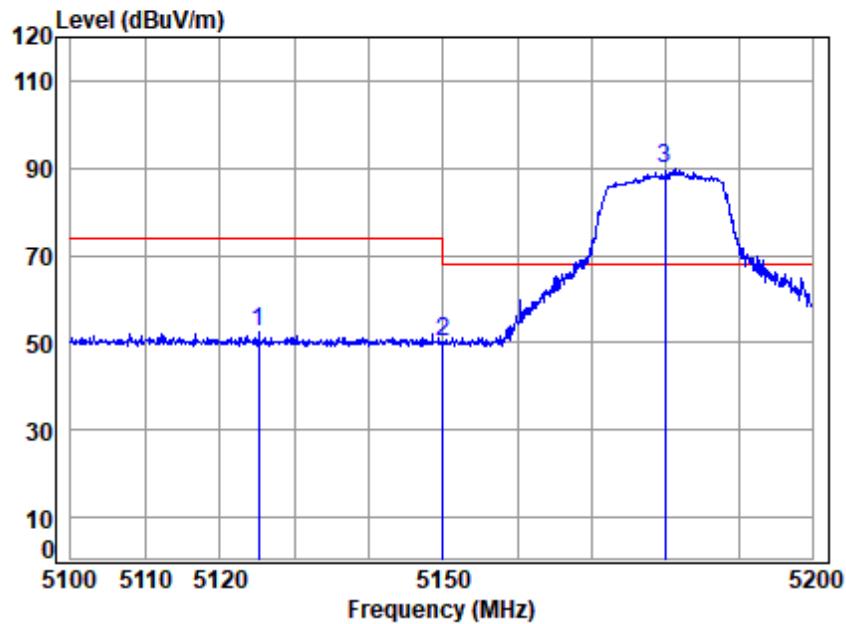
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5180 Band edge
: 5G WIFI 11A

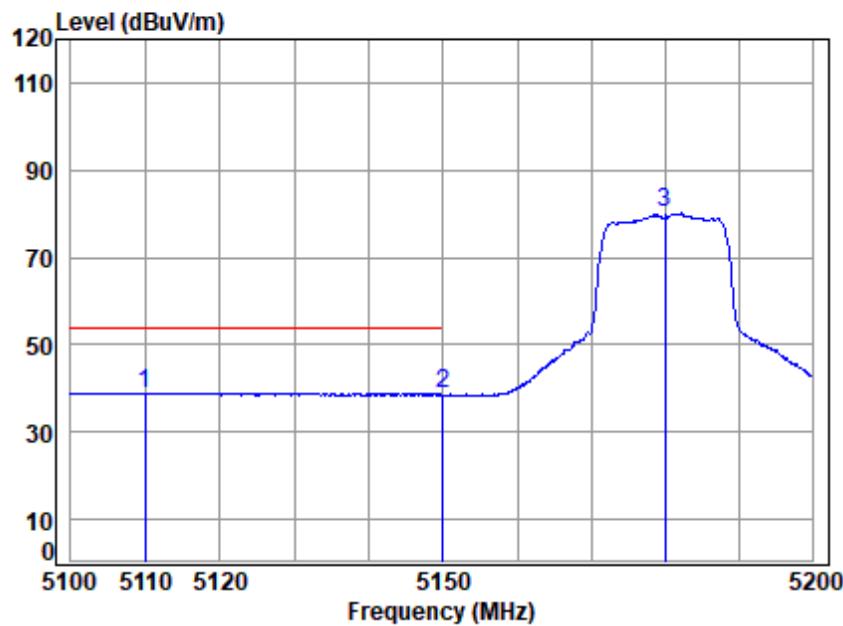
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 5125.117	7.53	33.95	35.32	46.10	52.26	74.00	-21.74 Peak
2 5149.980	7.55	33.90	35.31	44.22	50.36	74.00	-23.64 Peak
3 p 5180.000	7.57	33.96	35.29	83.60	89.84	68.20	21.64 Peak



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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5180 Band edge
: 5G WIFI 11A

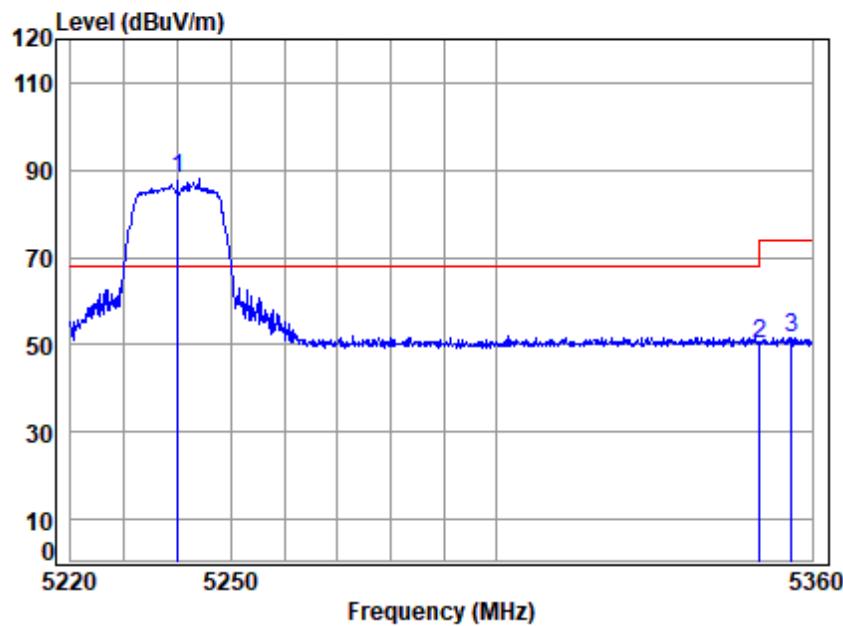
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 q 5109.913	7.52	33.98	35.33	32.81	38.98	54.00	-15.02 Average
2 5149.980	7.55	33.90	35.31	32.43	38.57	54.00	-15.43 Average
3 5180.000	7.57	33.96	35.29	73.85	80.09	-----	----- Average



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5240 Band edge
: 5G WIFI 11A

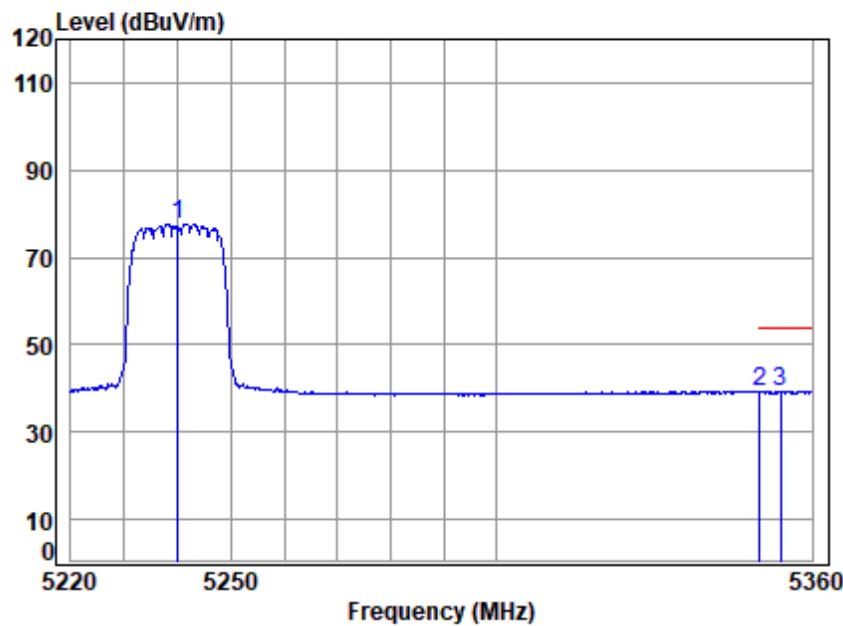
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m
1 p 5240.000	7.62	34.08	35.26	81.40	87.84	68.20	19.64 peak
2 5350.020	7.70	34.40	35.21	43.52	50.41	74.00	-23.59 peak
3 5356.029	7.71	34.42	35.21	44.79	51.71	74.00	-22.29 peak

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
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	7.62	34.08	35.26	71.26	77.70	-----	-----	Average
2 5350.020	7.70	34.40	35.21	32.39	39.28	54.00	-14.72	Average
3 q 5353.903	7.71	34.42	35.21	32.37	39.29	54.00	-14.71	Average

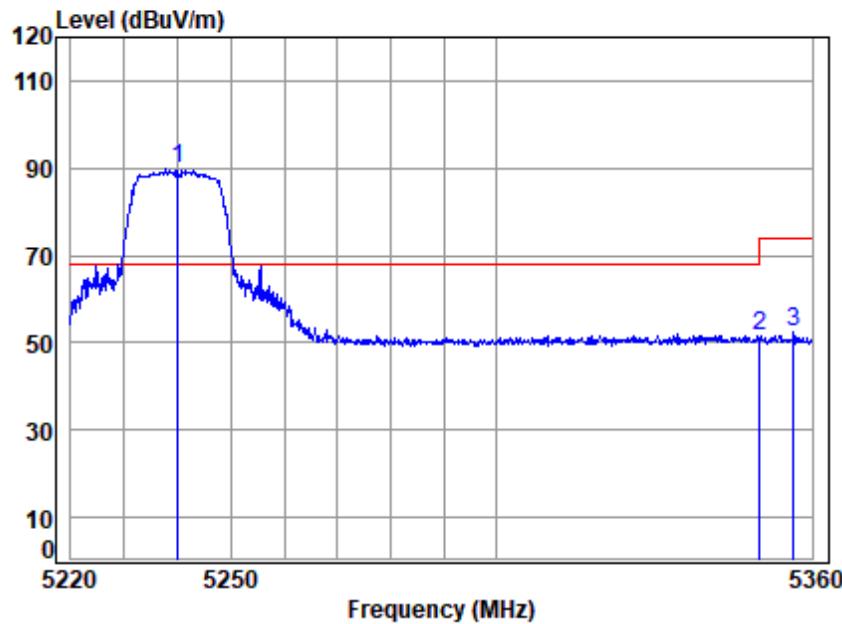
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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch No. 10, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编:518057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

Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5240 Band edge
: 5G WIFI 11A

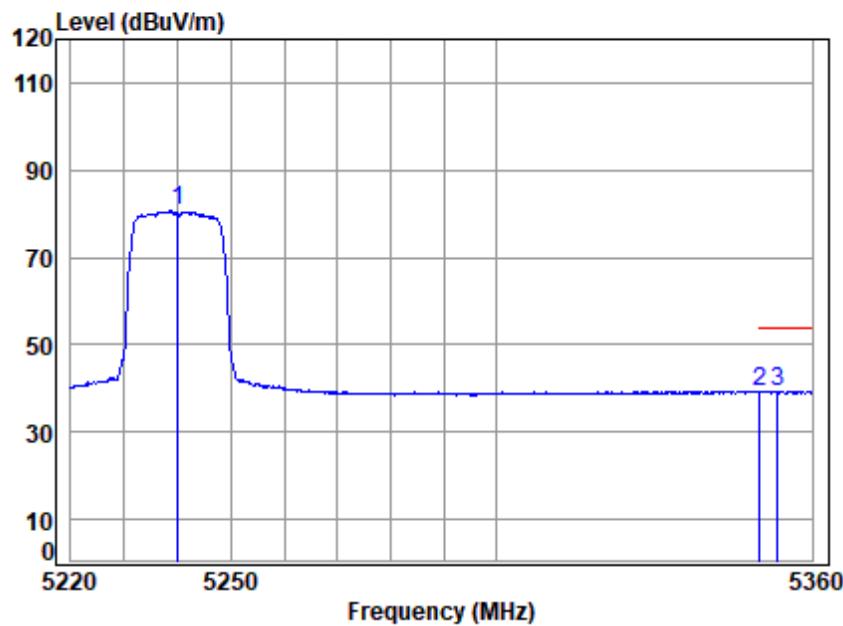
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5240.000	7.62	34.08	35.26	83.23	89.67	68.20	21.47 Peak
2 5350.020	7.70	34.40	35.21	44.47	51.36	74.00	-22.64 Peak
3 5356.455	7.71	34.43	35.20	45.43	52.37	74.00	-21.63 Peak

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

Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5240 Band edge
: 5G WIFI 11A

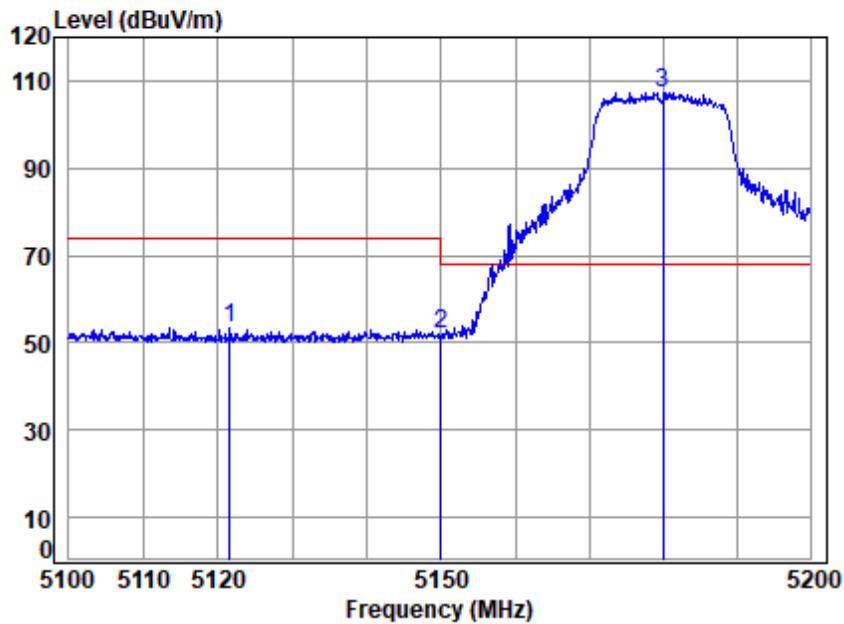
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m		dB	dBuV	dBuV/m	dB
1 5240.000	7.62	34.08	35.26	74.16	80.60	-----	Average
2 5350.020	7.70	34.40	35.21	32.26	39.15	54.00	-14.85 Average
3 q 5353.337	7.71	34.41	35.21	32.41	39.32	54.00	-14.68 Average

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5180 Band edge
: 5G WIFI 11AC20

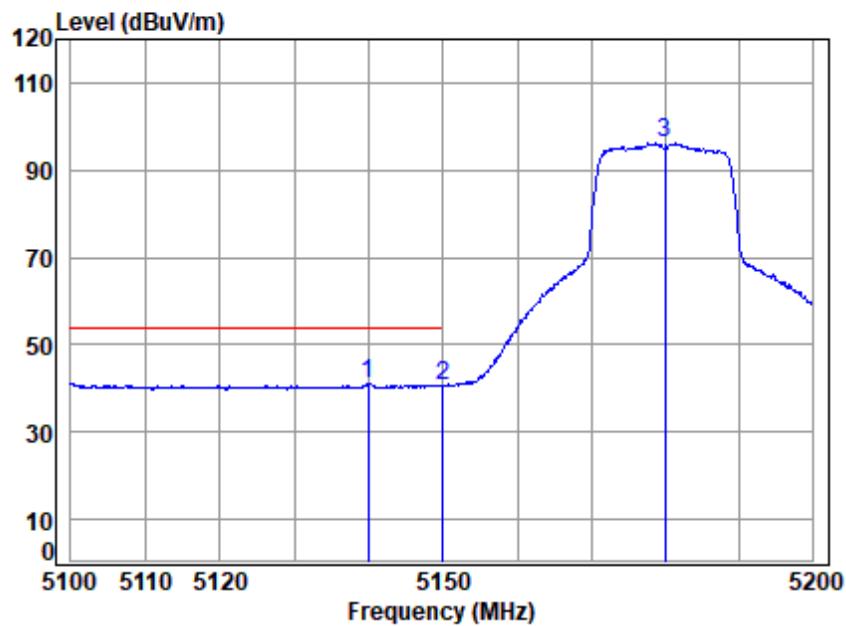
		Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5121.535	7.53	33.96	35.33	47.38	53.54	74.00	-20.46	peak
2	5149.980	7.55	33.90	35.31	45.94	52.08	74.00	-21.92	peak
3 p	5180.000	7.57	33.96	35.29	101.11	107.35	68.20	39.15	peak



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5180 Band edge
: 5G WIFI 11AC20

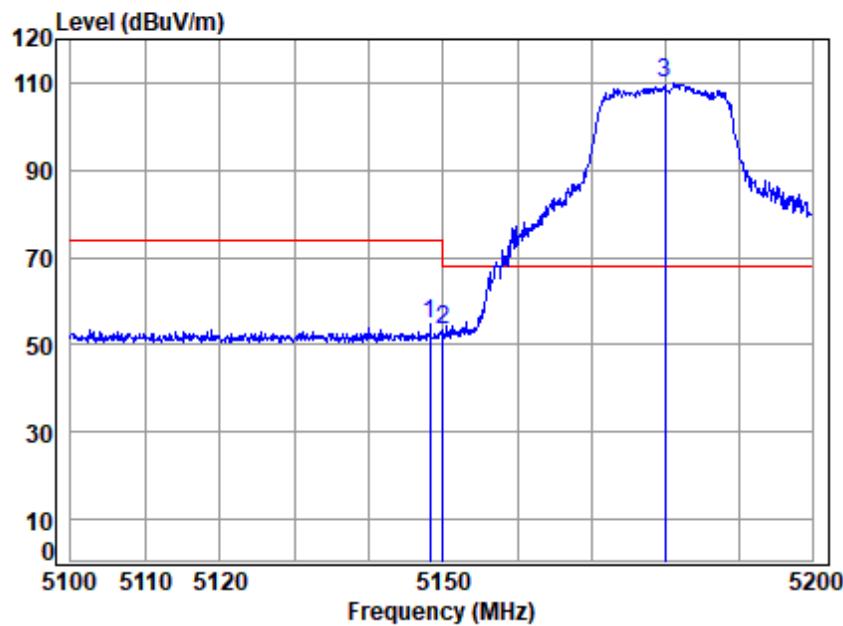
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5139.867	7.54	33.92	35.32	35.13	41.27	54.00	-12.73 Average
2 5149.980	7.55	33.90	35.31	34.68	40.82	54.00	-13.18 Average
3 5180.000	7.57	33.96	35.29	89.85	96.09	-----	----- Average

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5180 Band edge
: 5G WIFI 11AC20

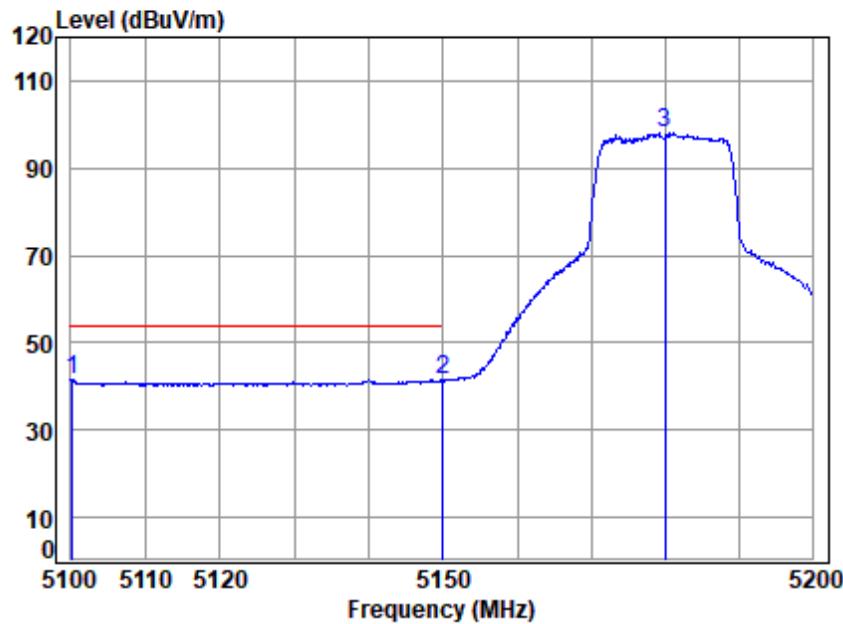
		Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.257	7.55	33.90	35.31	48.52	54.66	74.00	-19.34	Peak
2	5149.980	7.55	33.90	35.31	47.07	53.21	74.00	-20.79	Peak
3 p	5180.000	7.57	33.96	35.29	103.87	110.11	68.20	41.91	Peak



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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5180 Band edge
: 5G WIFI 11AC20

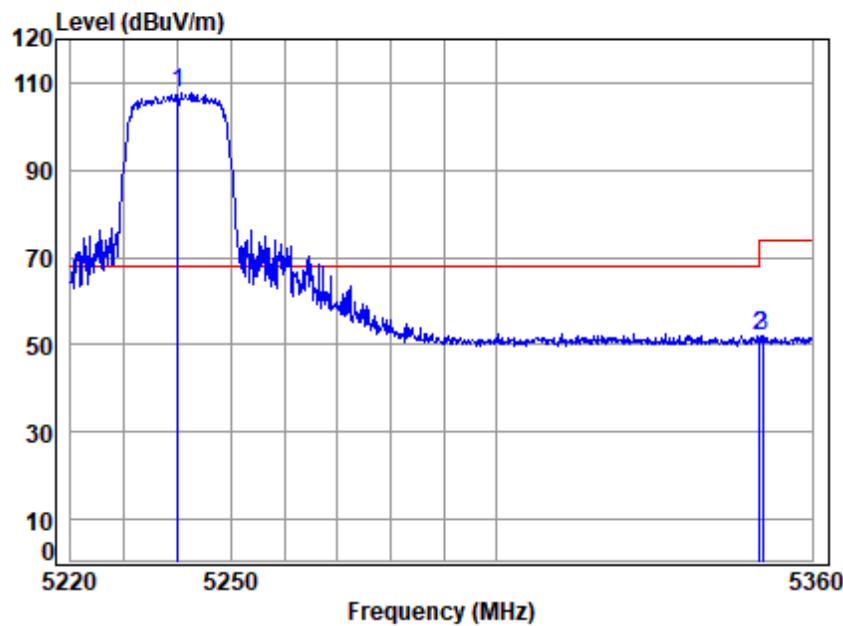
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 q 5100.198	7.51	34.00	35.34	35.47	41.64	54.00	-12.36 Average
2 5149.980	7.55	33.90	35.31	35.29	41.43	54.00	-12.57 Average
3 5180.000	7.57	33.96	35.29	91.79	98.03	-----	Average



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5240 Band edge
: 5G WIFI 11AC20

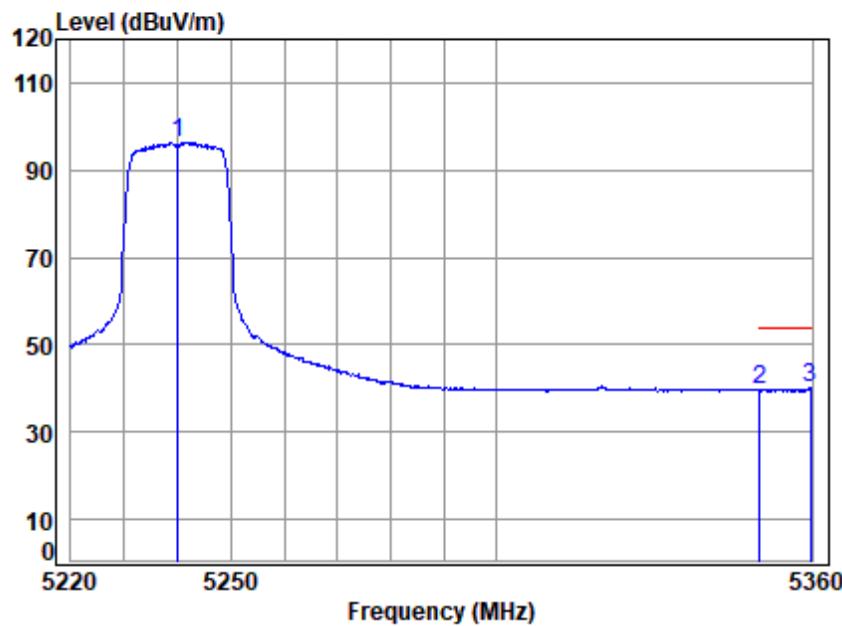
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 p 5240.000	7.62	34.08	35.26	101.44	107.88	68.20	39.68 peak
2 5350.020	7.70	34.40	35.21	45.01	51.90	74.00	-22.10 peak
3 5350.646	7.71	34.40	35.21	44.95	51.85	74.00	-22.15 peak

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5240 Band edge
: 5G WIFI 11AC20

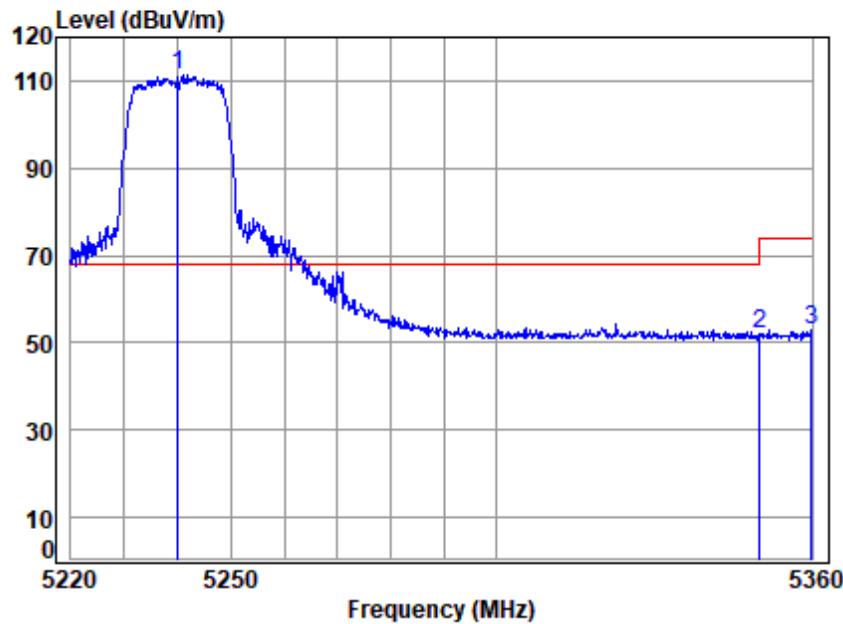
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5240.000	7.62	34.08	35.26	90.03	96.47	-----	Average
2 5350.020	7.70	34.40	35.21	32.79	39.68	54.00	-14.32 Average
3 q 5359.716	7.71	34.44	35.20	33.21	40.16	54.00	-13.84 Average



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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5240 Band edge
: 5G WIFI 11AC20

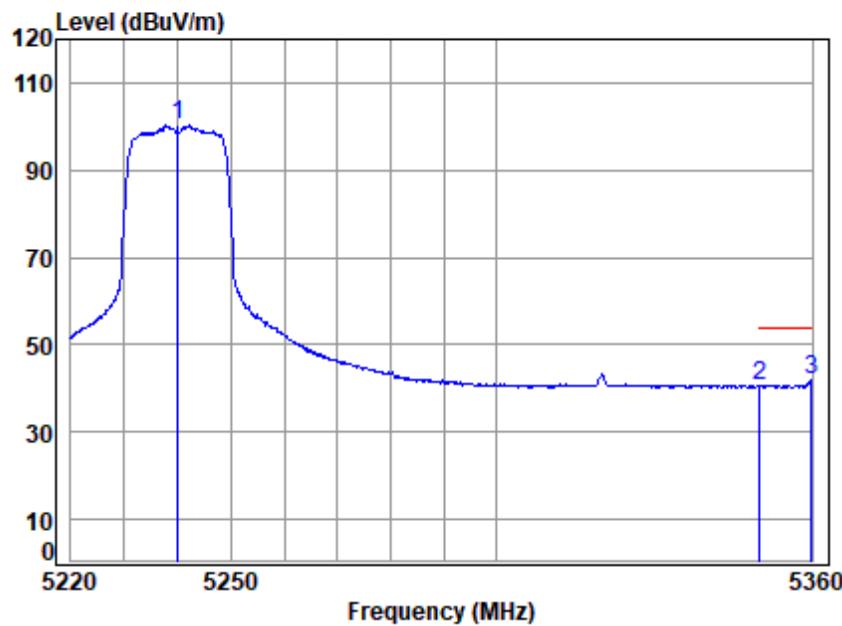
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5240.000	7.62	34.08	35.26	104.75	111.19	68.20	42.99 Peak
2 5350.020	7.70	34.40	35.21	44.94	51.83	74.00	-22.17 Peak
3 5359.858	7.71	34.44	35.20	46.15	53.10	74.00	-20.90 Peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5240 Band edge
: 5G WIFI 11AC20

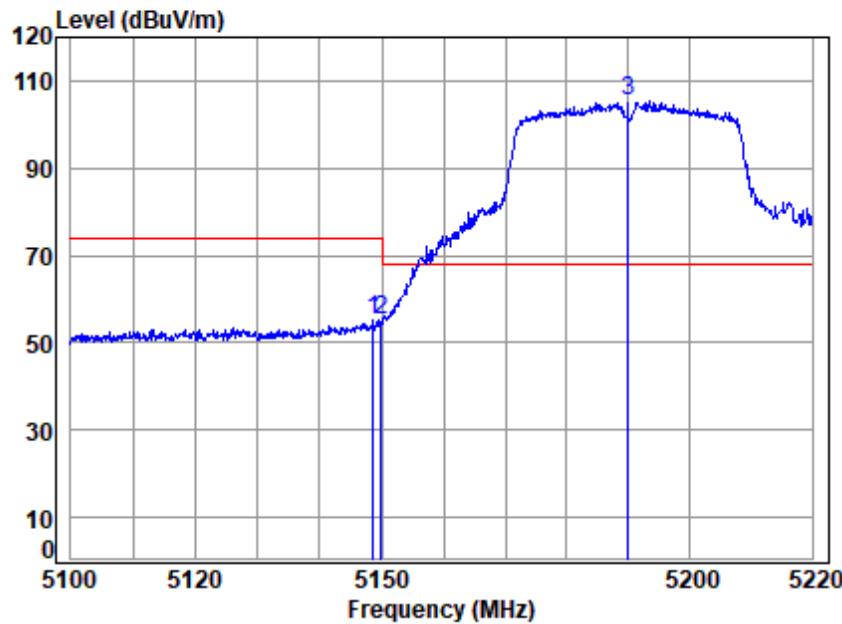
		Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	7.62	34.08	35.26	93.96	100.40	-----	-----	Average
2	5350.020	7.70	34.40	35.21	33.69	40.58	54.00	-13.42	Average
3	q 5359.858	7.71	34.44	35.20	35.05	42.00	54.00	-12.00	Average



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5190 Band edge
: 5G WIFI 11AC40

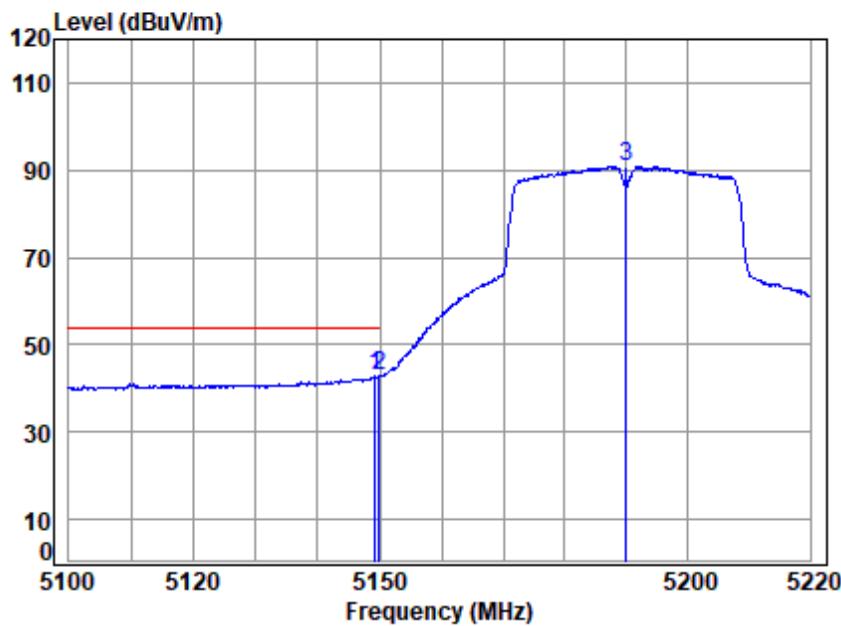
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m
1 5148.623	7.55	33.90	35.31	49.23	55.37	74.00	-18.63 peak
2 5149.980	7.55	33.90	35.31	48.88	55.02	74.00	-18.98 peak
3 p 5190.000	7.58	33.98	35.29	99.07	105.34	68.20	37.14 peak

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5190 Band edge
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1	5149.342	7.55	33.90	35.31	36.52	42.66	54.00 -11.34 Average
2	q 5149.980	7.55	33.90	35.31	36.93	43.07	54.00 -10.93 Average
3	5190.000	7.58	33.98	35.29	84.57	90.84	----- ----- Average

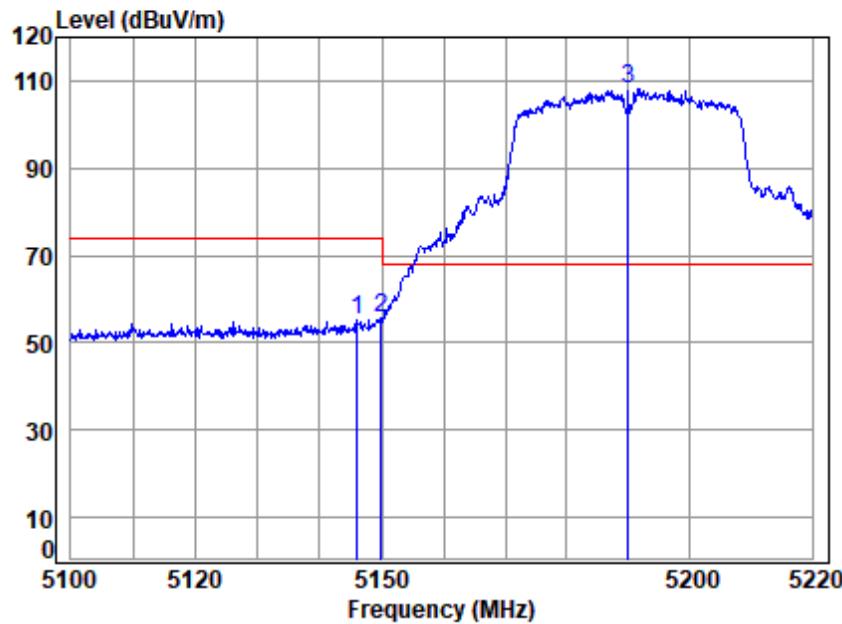
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Shenzhen Branch (CN) SGS Laboratory

Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5190 Band edge
: 5G WIFI 11AC40

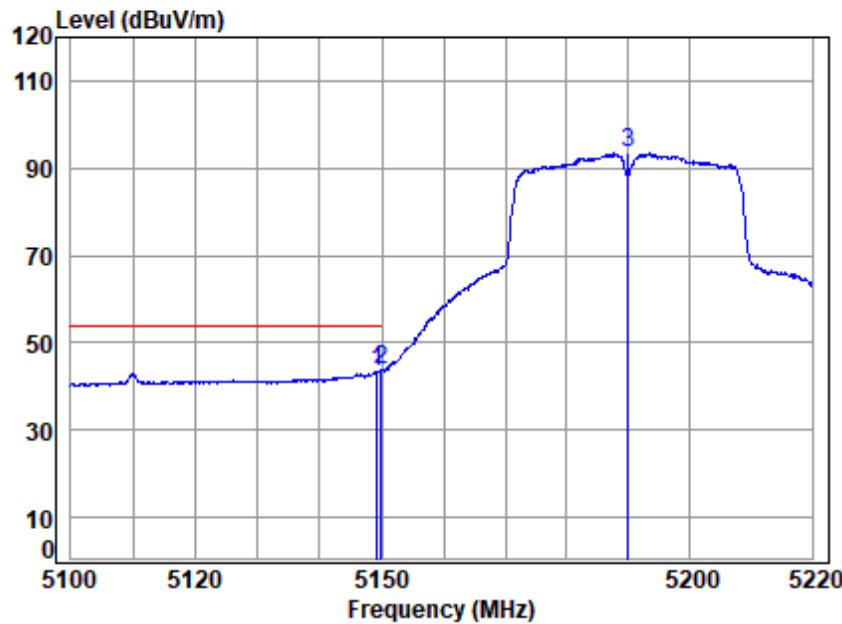
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5145.990	7.55	33.91	35.31	49.23	55.38	74.00	-18.62 Peak
2 5149.980	7.55	33.90	35.31	49.66	55.80	74.00	-18.20 Peak
3 p 5190.000	7.58	33.98	35.29	102.03	108.30	68.20	40.10 Peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5190 Band edge
: 5G WIFI 11AC40

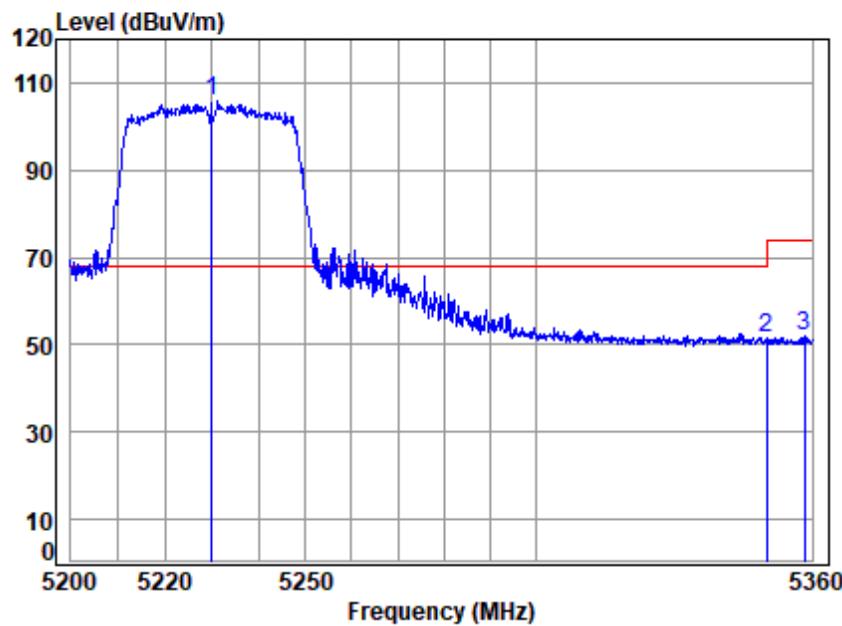
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5149.342	7.55	33.90	35.31	37.28	43.42	54.00	-10.58 Average
2 q 5149.980	7.55	33.90	35.31	37.79	43.93	54.00	-10.07 Average
3 5190.000	7.58	33.98	35.29	87.11	93.38	-----	----- Average

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5230 Band edge
: 5G WIFI 11AC40

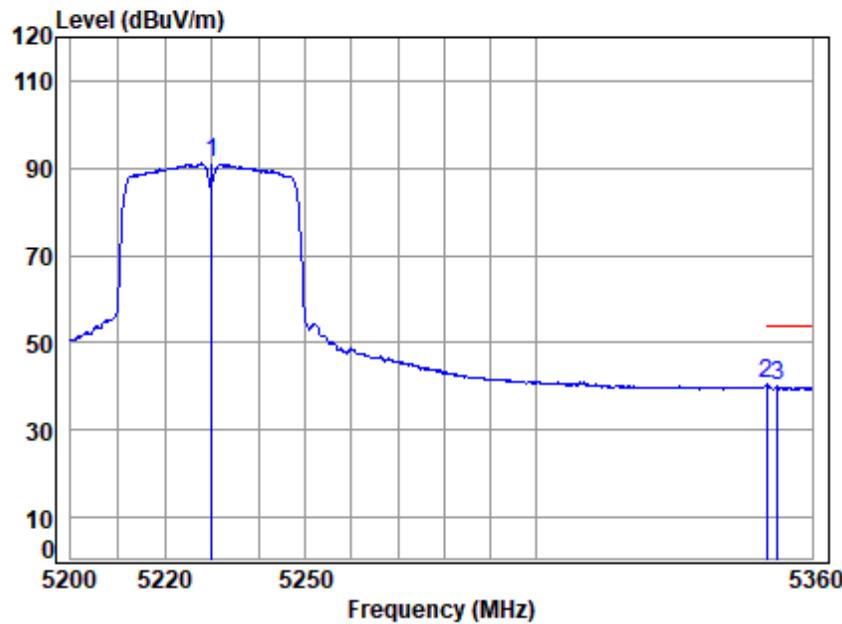
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 p 5230.000	7.61	34.06	35.27	99.45	105.85	68.20	37.65 peak
2 5350.020	7.70	34.40	35.21	44.44	51.33	74.00	-22.67 peak
3 5358.376	7.71	34.43	35.20	45.01	51.95	74.00	-22.05 peak

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5230 Band edge
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5230.000	7.61	34.06	35.27	84.64	91.04	-----	-----	Average
2 q 5350.020	7.70	34.40	35.21	33.60	40.49	54.00	-13.51	Average
3 5352.371	7.71	34.41	35.21	33.09	40.00	54.00	-14.00	Average

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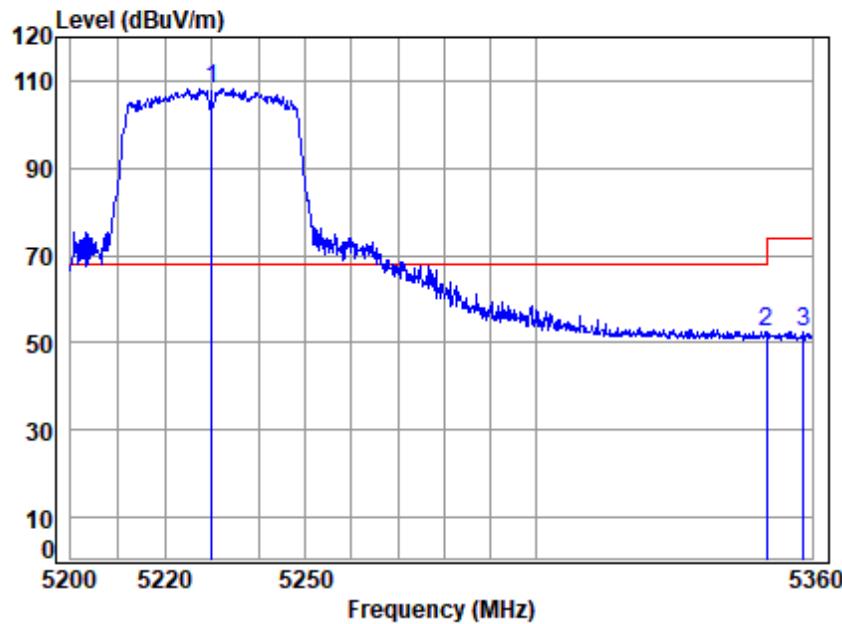
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Shenzhen Branch (SGS-CSTC Laboratory)



Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5230 Band edge
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m
1 p 5230.000	7.61	34.06	35.27	101.90	108.30	68.20	40.10 Peak
2 5350.020	7.70	34.40	35.21	45.43	52.32	74.00	-21.68 Peak
3 5358.051	7.71	34.43	35.20	45.61	52.55	74.00	-21.45 Peak

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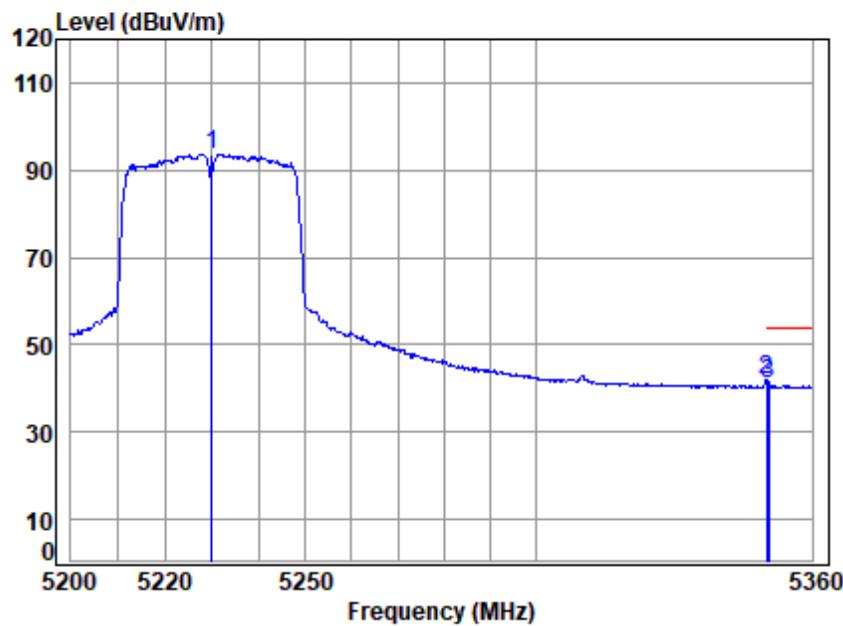
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Shenzhen Branch (SGS-CSTC Laboratory)



Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5230 Band edge
: 5G WIFI 11AC40

		Cable Freq	Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
		MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1		5230.000	7.61	34.06	35.27	87.36	93.76	-----	-----	Average
2	q	5350.020	7.70	34.40	35.21	34.87	41.76	54.00	-12.24	Average
3		5350.587	7.71	34.40	35.21	34.09	40.99	54.00	-13.01	Average

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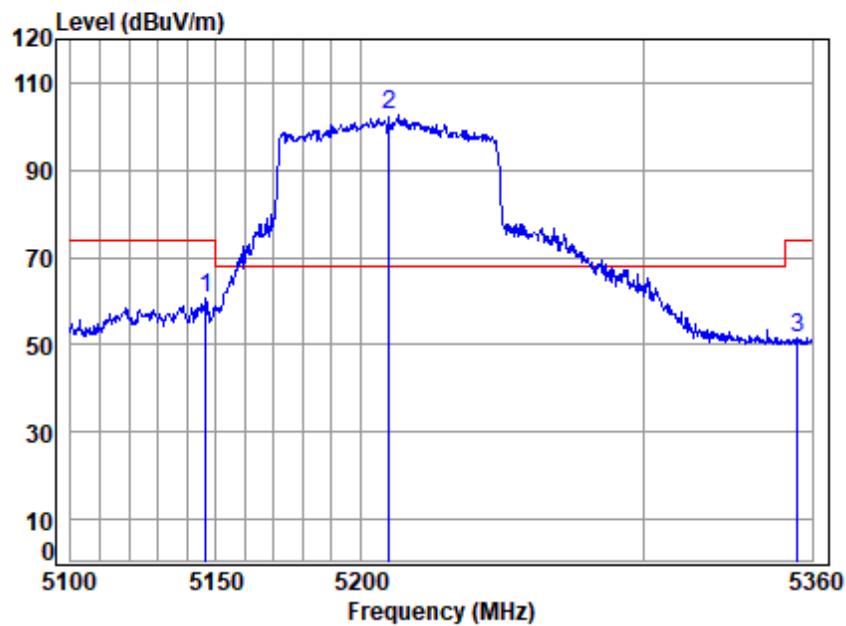
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Shenzhen Branch (SGS-CSTC Laboratory)



Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5210 Band edge
: 5G WIFI 11AC80

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Limit	Over Line dB	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.363	7.55	33.91	35.31	54.34	60.49	74.00	-13.51	peak	
2 p	5210.000	7.60	34.02	35.28	96.30	102.64	68.20	34.44	peak	
3	5354.938	7.71	34.42	35.21	44.71	51.63	74.00	-22.37	peak	

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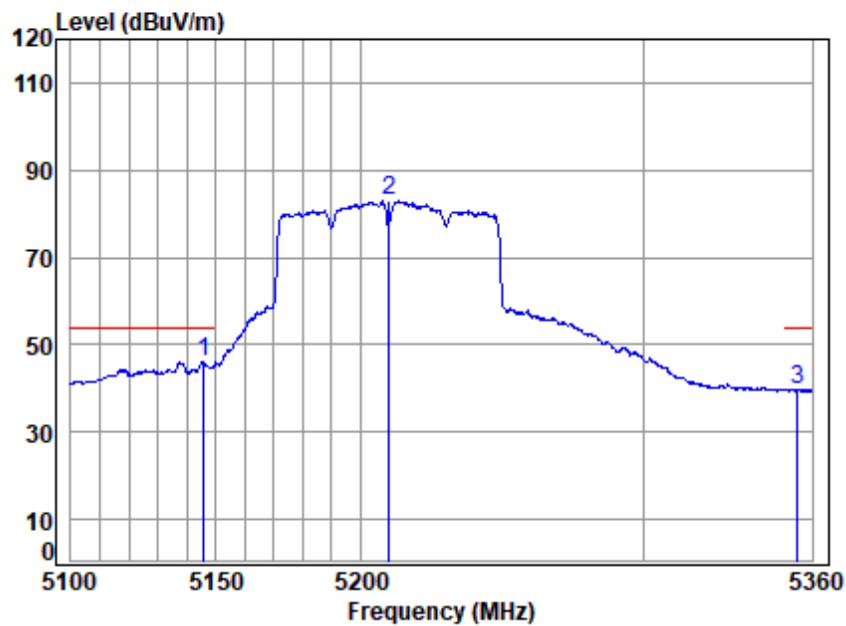


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5210 Band edge
: 5G WIFI 11AC80

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5145.595	7.55	33.91	35.31	39.93	46.08	54.00	-7.92 Average
2 5210.000	7.60	34.02	35.28	76.58	82.92	-----	----- Average
3 5354.938	7.71	34.42	35.21	32.80	39.72	54.00	-14.28 Average

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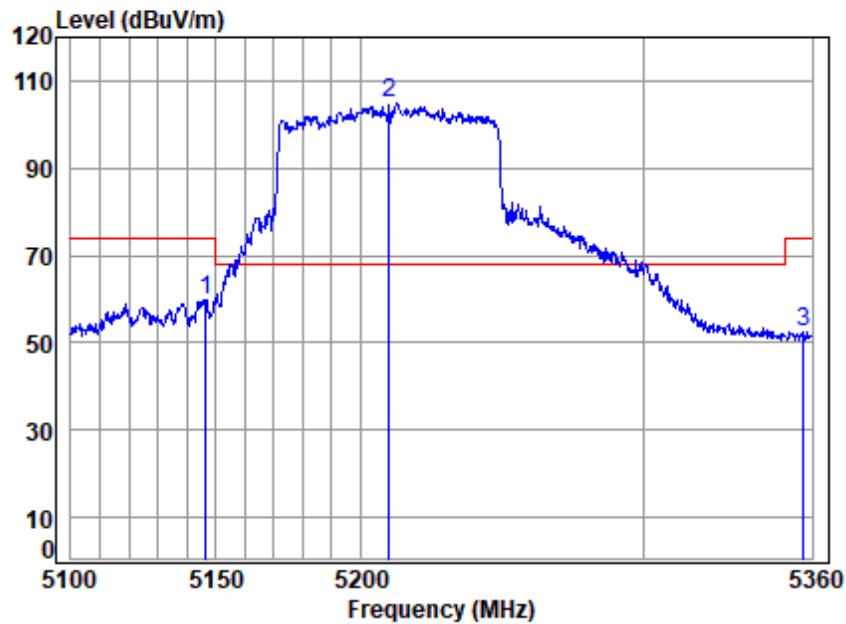


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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5210 Band edge
: 5G WIFI 11AC80

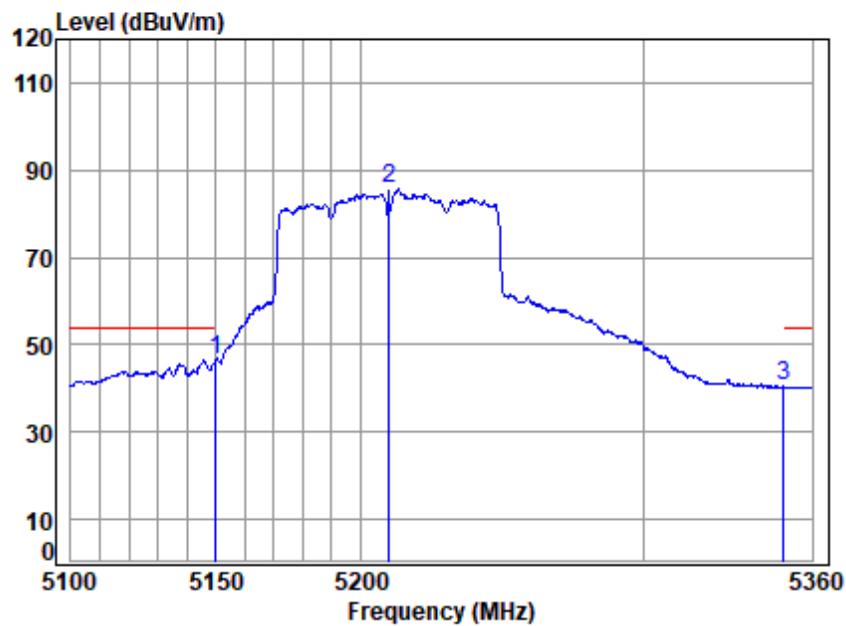
		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5146.363	7.55	33.91	35.31	53.83	59.98	74.00	-14.02	Peak
2 p	5210.000	7.60	34.02	35.28	98.43	104.77	68.20	36.57	Peak
3	5357.069	7.71	34.43	35.20	45.72	52.66	74.00	-21.34	Peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

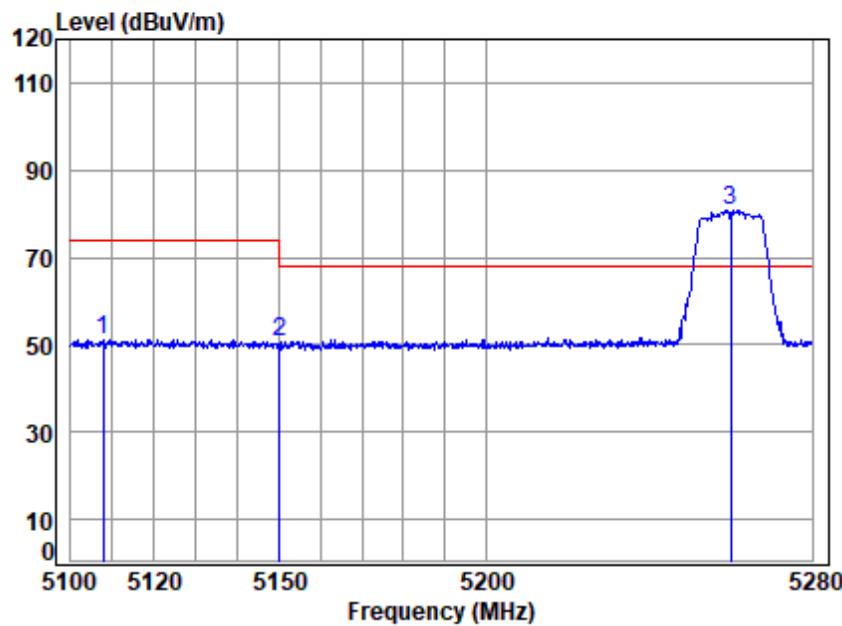
Mode : 5210 Band edge
: 5G WIFI 11AC80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 q 5149.947	7.55	33.90	35.31	40.56	46.70	54.00	-7.30 Average
2 5210.000	7.60	34.02	35.28	79.23	85.57	-----	----- Average
3 5349.882	7.70	34.40	35.21	33.63	40.52	-----	----- Average

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5260 Band edge
: 5G WIFI 11A

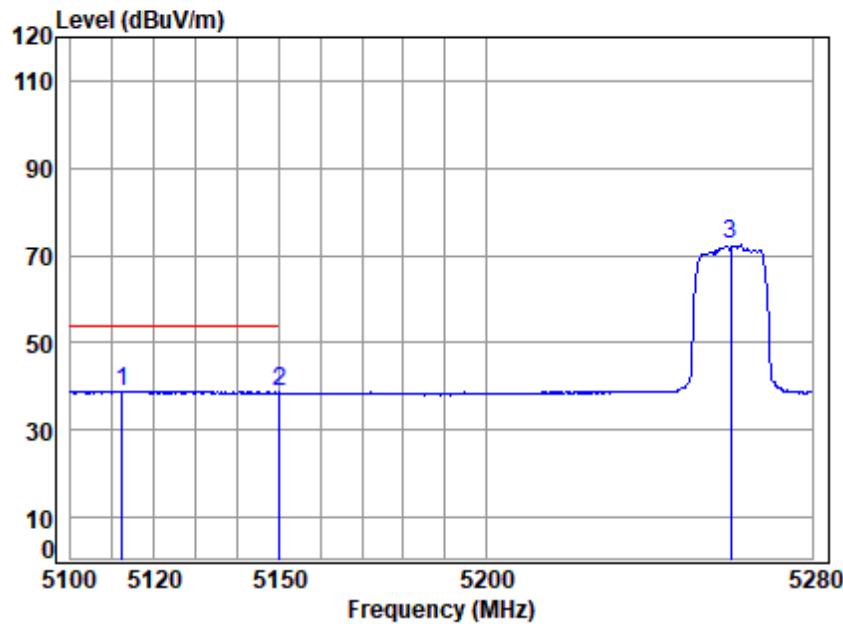
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1	5107.790	7.52	33.98	35.33	45.15	51.32	74.00 -22.68 peak
2	5149.980	7.55	33.90	35.31	44.31	50.45	74.00 -23.55 peak
3	p 5260.000	7.64	34.12	35.25	74.45	80.96	68.20 12.76 peak

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5260 Band edge
: 5G WIFI 11A

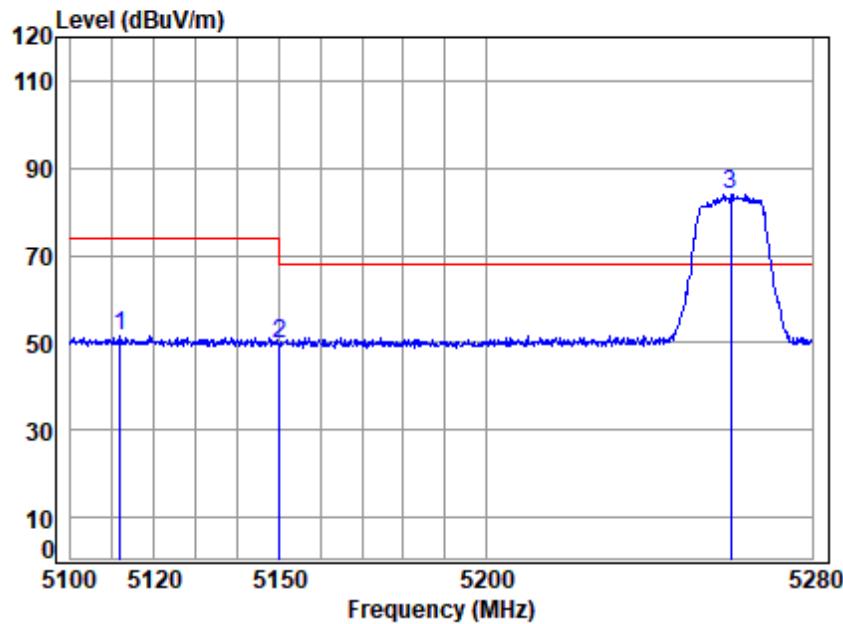
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5112.221	7.52	33.98	35.33	32.68	38.85	54.00	-15.15	Average
2 5149.980	7.55	33.90	35.31	32.42	38.56	54.00	-15.44	Average
3 5260.000	7.64	34.12	35.25	65.82	72.33	-----	-----	Average

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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5260 Band edge
: 5G WIFI 11A

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5111.866	7.52	33.98	35.33	45.44	51.61	74.00	-22.39 Peak
2 5149.980	7.55	33.90	35.31	43.65	49.79	74.00	-24.21 Peak
3 p 5260.000	7.64	34.12	35.25	77.60	84.11	68.20	15.91 Peak

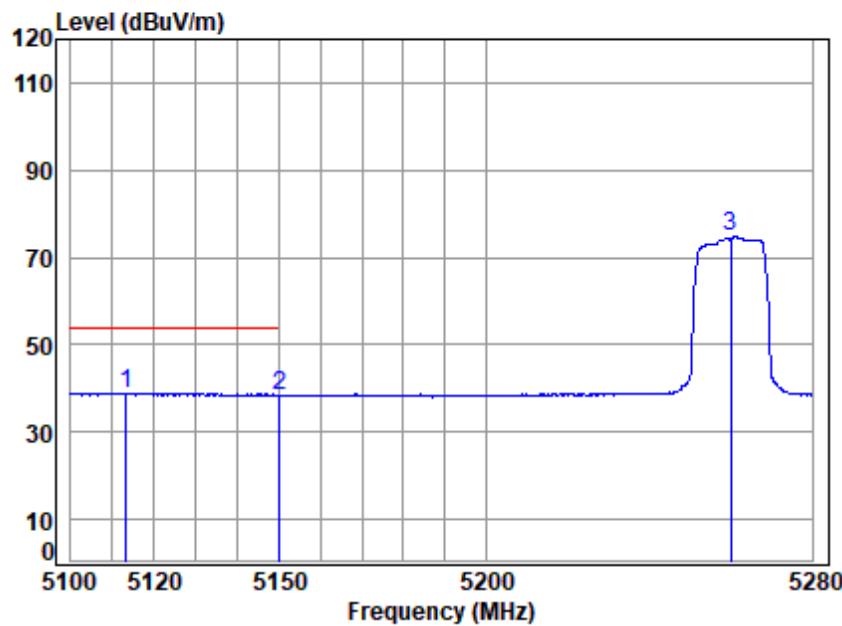
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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch No. 10, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057

Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5260 Band edge
: 5G WIFI 11A

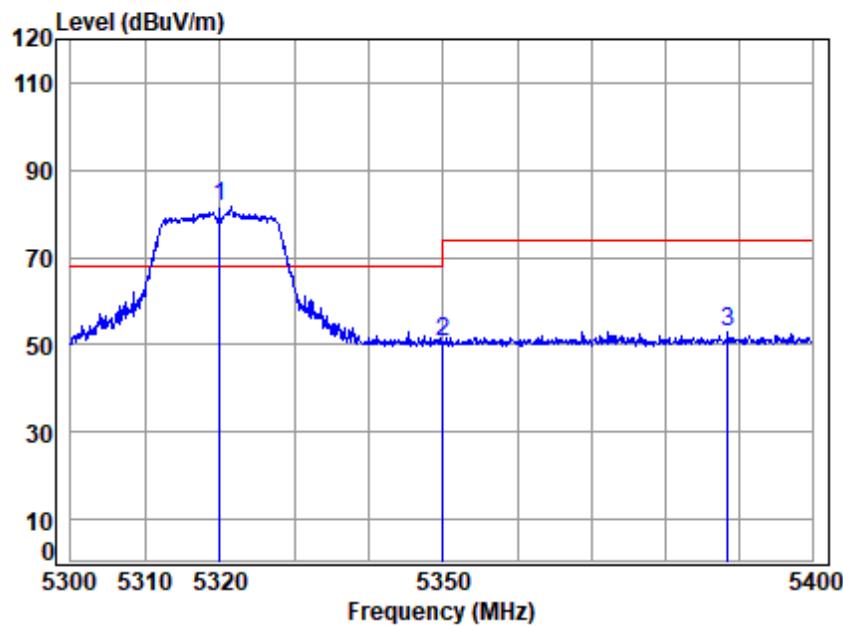
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1 q	5113.285	7.52	33.97	35.33	32.83	38.99	54.00 -15.01 Average
2	5149.980	7.55	33.90	35.31	32.35	38.49	54.00 -15.51 Average
3	5260.000	7.64	34.12	35.25	68.35	74.86	----- ----- Average



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5320 Band edge
: 5G WIFI 11A

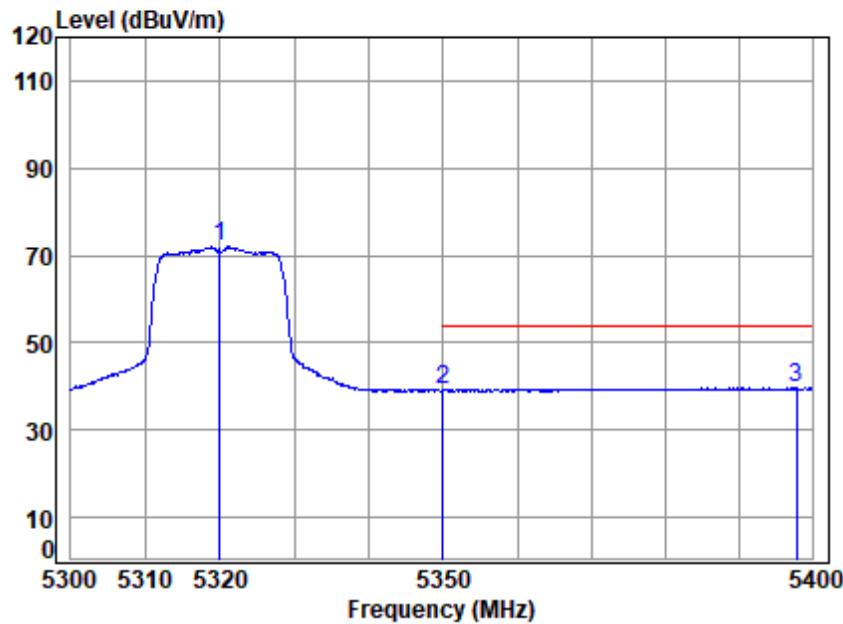
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5320.000	7.68	34.28	35.22	75.15	81.89	68.20	13.69 peak
2 5350.020	7.70	34.40	35.21	43.98	50.87	74.00	-23.13 peak
3 5388.505	7.73	34.55	35.19	45.89	52.98	74.00	-21.02 peak

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5320 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 5320.000	7.68	34.28	35.22	65.37	72.11	-----	-----	Average
2 5350.020	7.70	34.40	35.21	32.26	39.15	54.00	-14.85	Average
3 q 5397.881	7.74	34.59	35.18	32.54	39.69	54.00	-14.31	Average

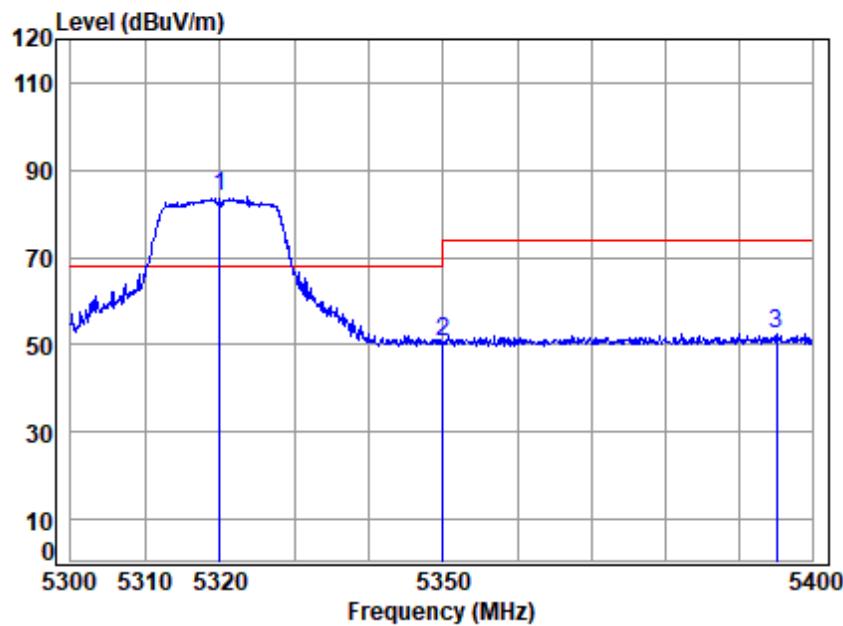
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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch No. 10, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057

Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5320 Band edge
: 5G WIFI 11A

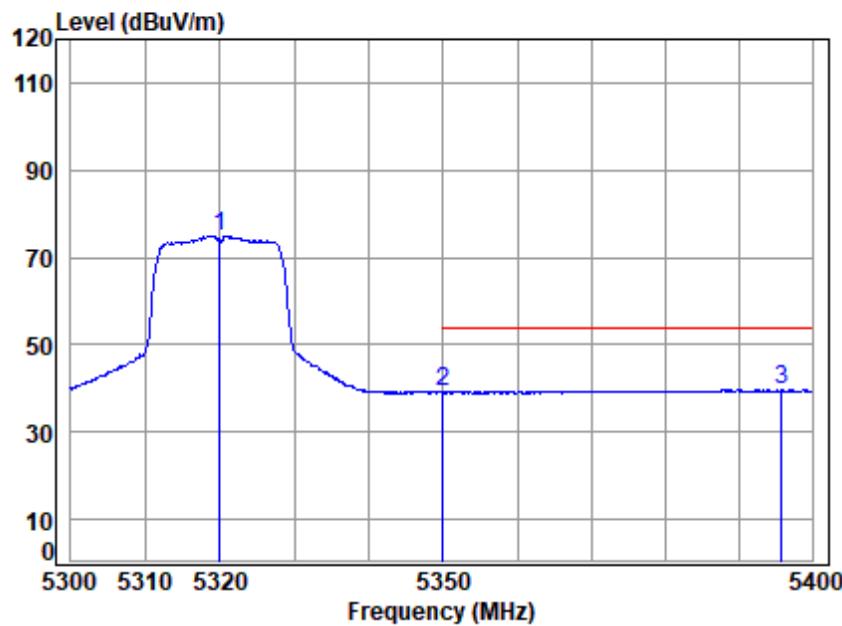
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 p 5320.000	7.68	34.28	35.22	77.02	83.76	68.20	15.56 Peak
2 5350.020	7.70	34.40	35.21	43.62	50.51	74.00	-23.49 Peak
3 5395.157	7.74	34.58	35.19	45.41	52.54	74.00	-21.46 Peak



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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5320 Band edge
: 5G WIFI 11A

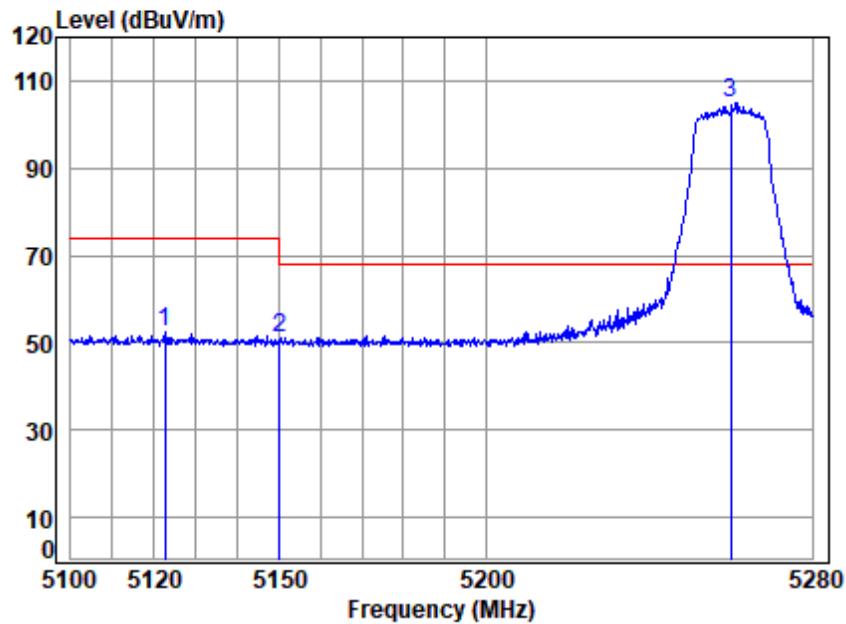
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 5320.000	7.68	34.28	35.22	68.28	75.02	-----	-----	Average
2 5350.020	7.70	34.40	35.21	32.32	39.21	54.00	-14.79	Average
3 q 5395.863	7.74	34.58	35.19	32.52	39.65	54.00	-14.35	Average



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5260 Band edge
: 5G WIFI 11AC20

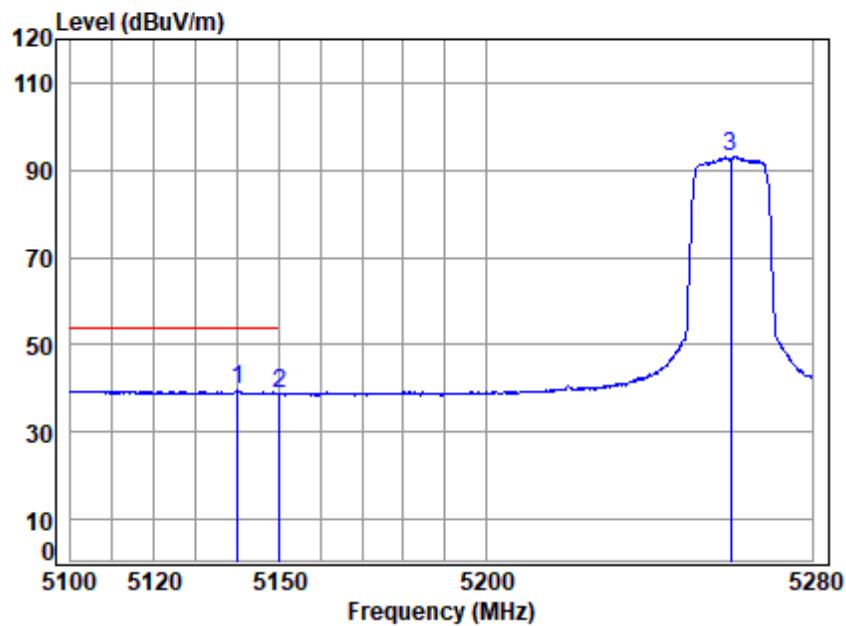
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m
1 5122.516	7.53	33.95	35.32	46.10	52.26	74.00	-21.74 peak
2 5149.980	7.55	33.90	35.31	44.78	50.92	74.00	-23.08 peak
3 p 5260.000	7.64	34.12	35.25	98.56	105.07	68.20	36.87 peak

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



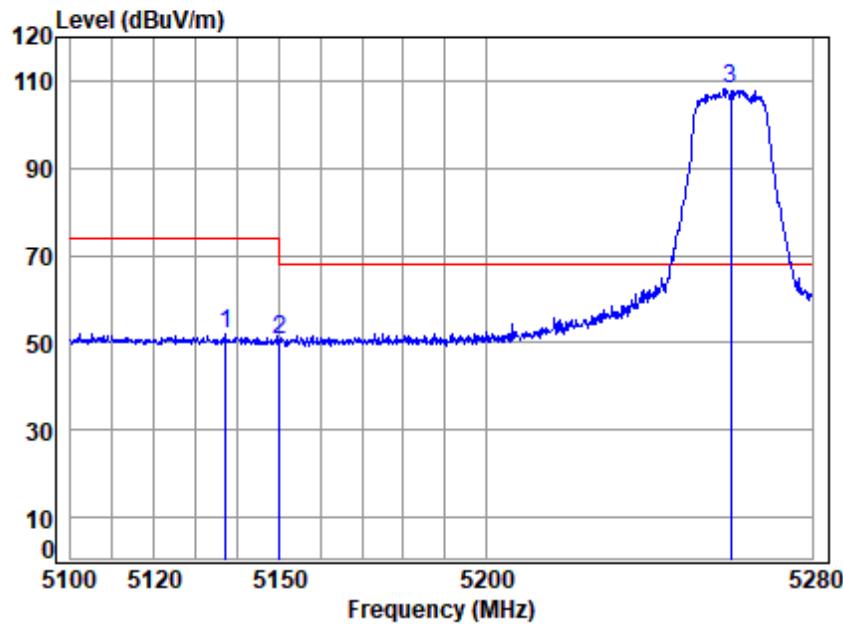
Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5260 Band edge
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m
1 q 5139.958	7.54	33.92	35.32	33.41	39.55	54.00	-14.45 Average
2 5149.980	7.55	33.90	35.31	32.76	38.90	54.00	-15.10 Average
3 5260.000	7.64	34.12	35.25	86.57	93.08	-----	----- Average

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5260 Band edge
: 5G WIFI 11AC20

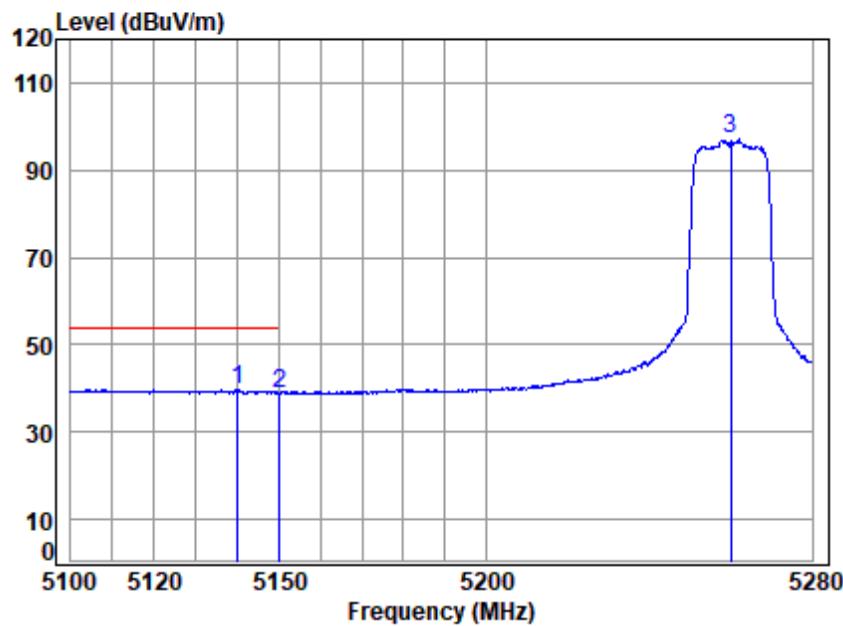
		Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5137.105	7.54	33.93	35.32	45.85	52.00	74.00	-22.00	Peak
2	5149.980	7.55	33.90	35.31	44.63	50.77	74.00	-23.23	Peak
3 p	5260.000	7.64	34.12	35.25	101.67	108.18	68.20	39.98	Peak

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5260 Band edge
: 5G WIFI 11AC20

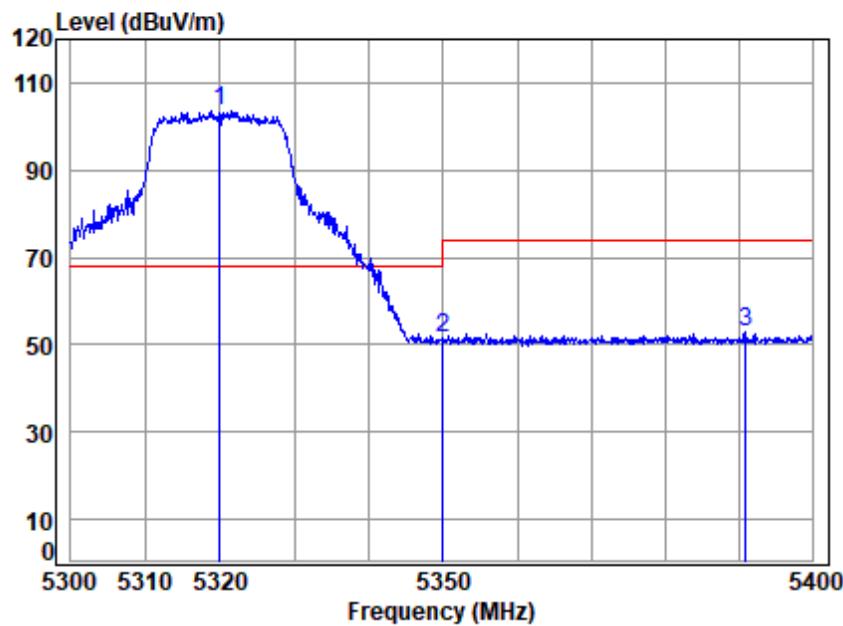
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 q 5139.958	7.54	33.92	35.32	33.58	39.72	54.00	-14.28 Average
2 5149.980	7.55	33.90	35.31	32.87	39.01	54.00	-14.99 Average
3 5260.000	7.64	34.12	35.25	90.59	97.10	-----	----- Average



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

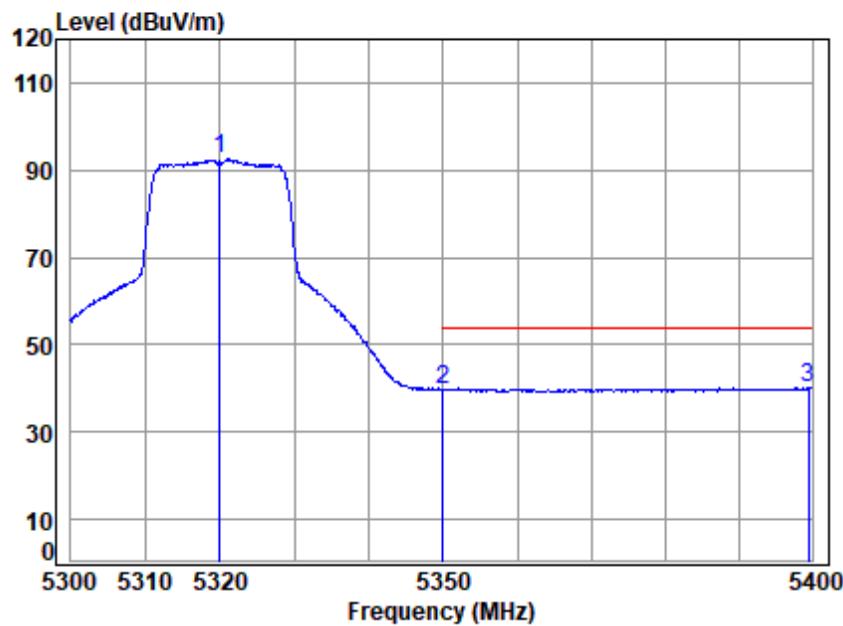


Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5320 Band edge
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
MHz									
1 p 5320.000	7.68	34.28	35.22	96.90	103.64	68.20	35.44	peak	
2 5350.020	7.70	34.40	35.21	44.78	51.67	74.00	-22.33	peak	
3 5391.024	7.74	34.56	35.19	45.67	52.78	74.00	-21.22	peak	



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5320 Band edge
: 5G WIFI 11AC20

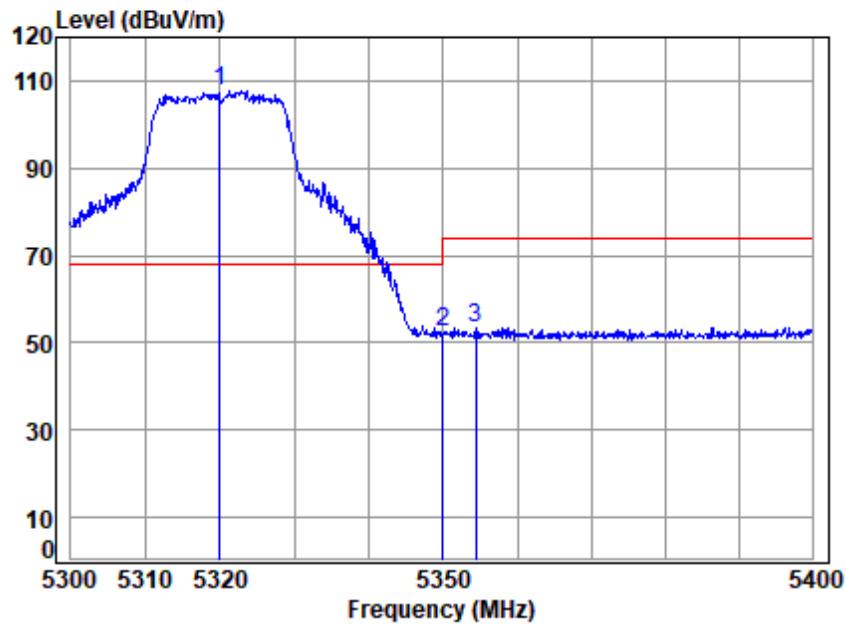
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 5320.000	7.68	34.28	35.22	85.98	92.72	-----	-----	Average
2 5350.020	7.70	34.40	35.21	32.97	39.86	54.00	-14.14	Average
3 q 5399.495	7.74	34.60	35.18	33.01	40.17	54.00	-13.83	Average

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5320 Band edge
: 5G WIFI 11AC20

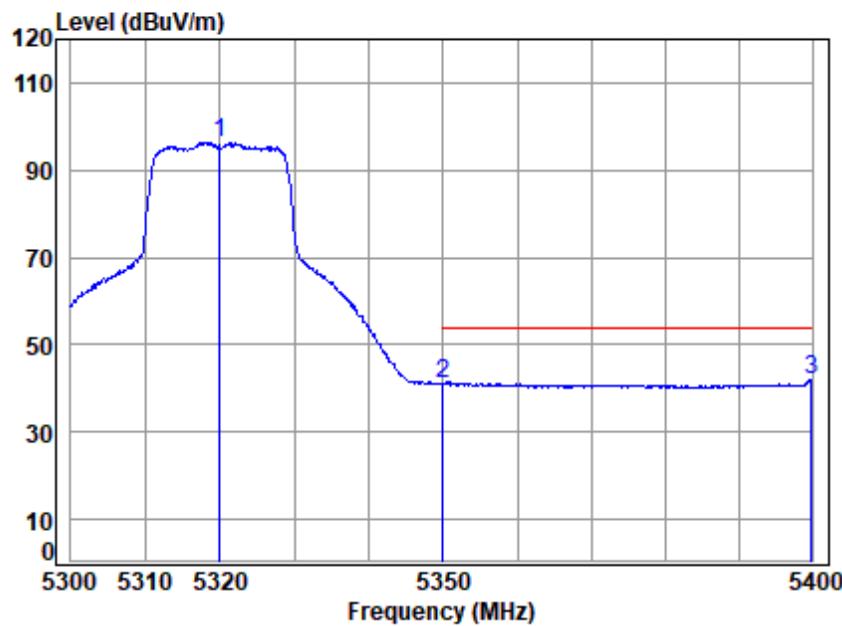
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m
1 p 5320.000	7.68	34.28	35.22	101.06	107.80	68.20	39.60 Peak
2 5350.020	7.70	34.40	35.21	45.45	52.34	74.00	-21.66 Peak
3 5354.368	7.71	34.42	35.21	46.67	53.59	74.00	-20.41 Peak

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

Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5320 Band edge
: 5G WIFI 11AC20

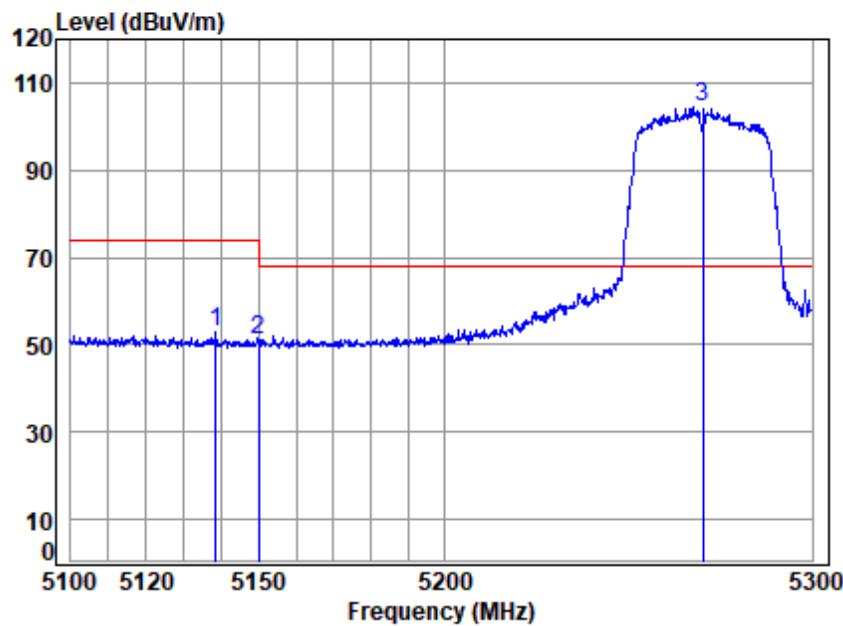
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5320.000	7.68	34.28	35.22	89.72	96.46	-----	-----	Average
2 5350.020	7.70	34.40	35.21	34.29	41.18	54.00	-12.82	Average
3 q 5399.899	7.74	34.60	35.18	34.97	42.13	54.00	-11.87	Average

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5270 Band edge
: 5G WIFI 11AC40

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	5138.398	7.54	33.92	35.32	46.81	52.95	74.00	-21.05 peak
2	5149.980	7.55	33.90	35.31	45.11	51.25	74.00	-22.75 peak
3	p 5270.000	7.64	34.14	35.25	97.73	104.26	68.20	36.06 peak

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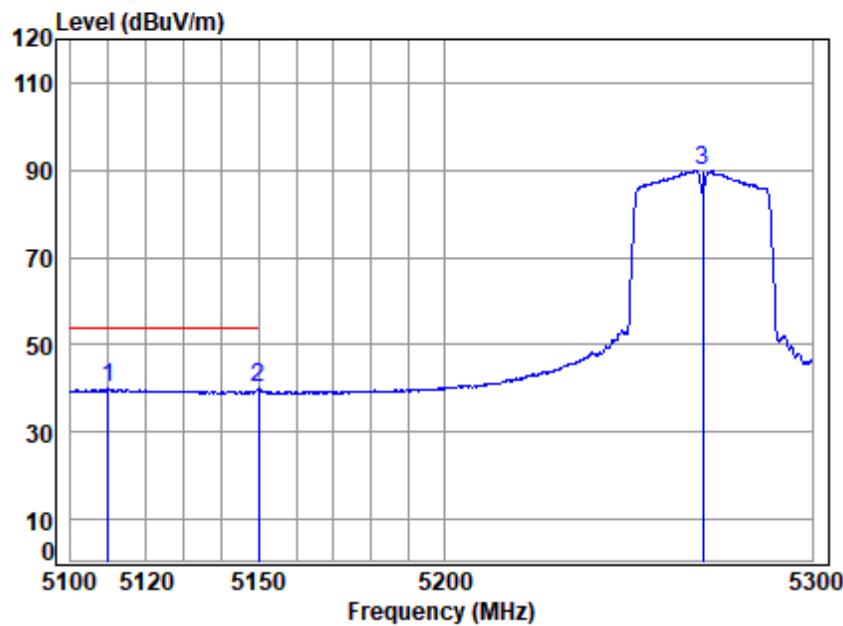
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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SGS-CSTC Laboratory)



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5270 Band edge
: 5G WIFI 11AC40

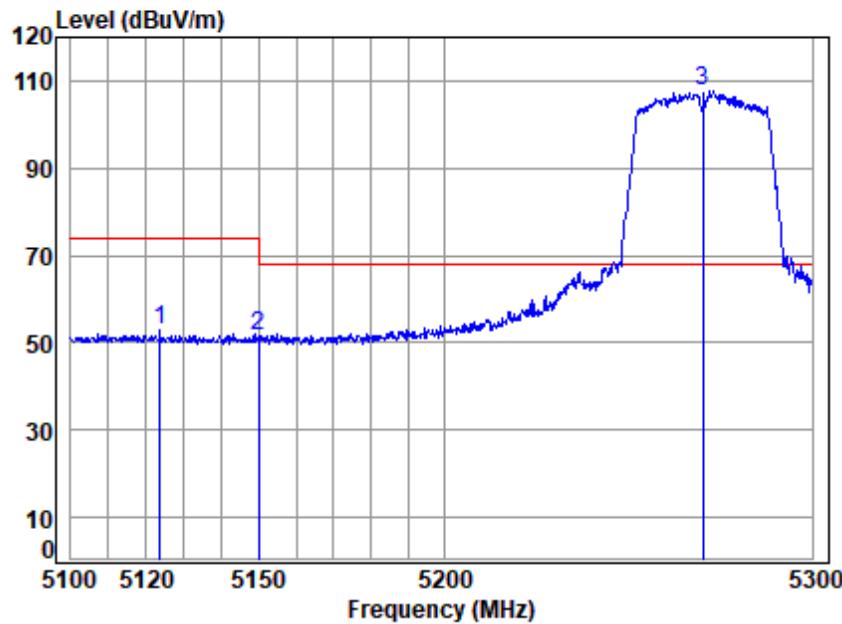
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 q 5110.015	7.52	33.98	35.33	33.81	39.98	54.00	-14.02 Average
2 5149.980	7.55	33.90	35.31	33.82	39.96	54.00	-14.04 Average
3 5270.000	7.64	34.14	35.25	83.40	89.93	-----	Average



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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5270 Band edge
: 5G WIFI 11AC40

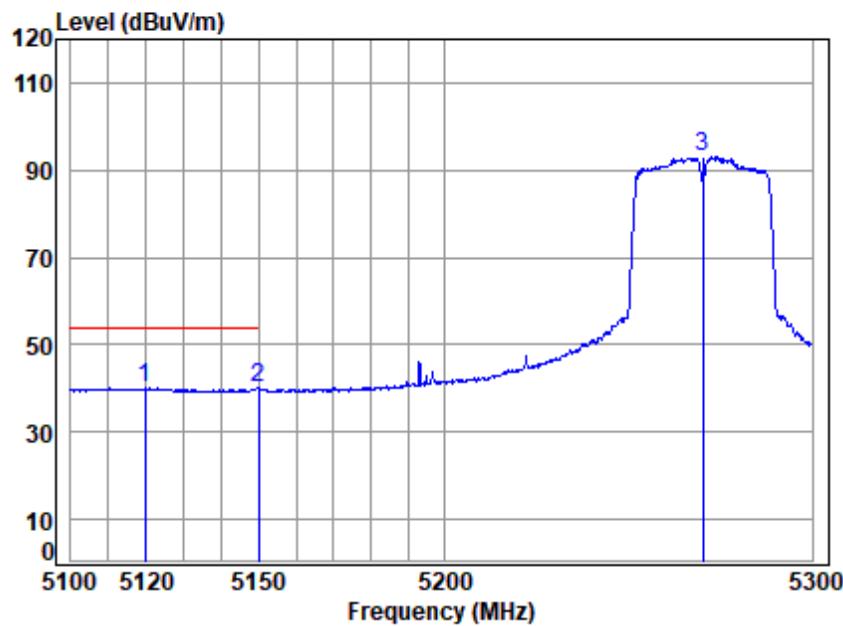
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
							dB	Remark
1	5123.793	7.53	33.95	35.32	46.64	52.80	74.00	-21.20 Peak
2	5149.980	7.55	33.90	35.31	45.63	51.77	74.00	-22.23 Peak
3	p 5270.000	7.64	34.14	35.25	101.21	107.74	68.20	39.54 Peak



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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5270 Band edge
: 5G WIFI 11AC40

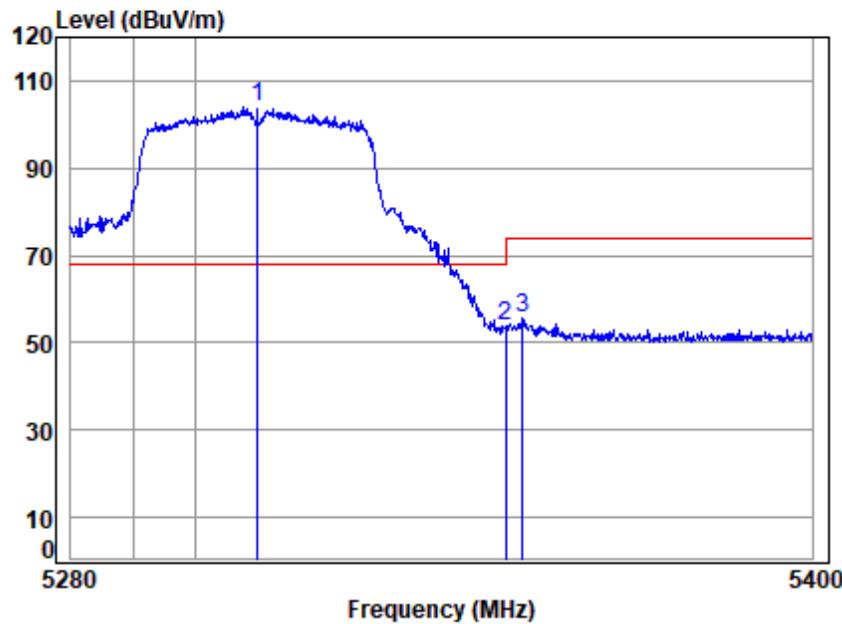
		Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5119.656	7.53	33.96	35.33	33.98	40.14	54.00	-13.86	Average
2	5149.980	7.55	33.90	35.31	34.12	40.26	54.00	-13.74	Average
3	5270.000	7.64	34.14	35.25	86.65	93.18	-----	-----	Average



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5310 Band edge
: 5G WIFI 11AC40

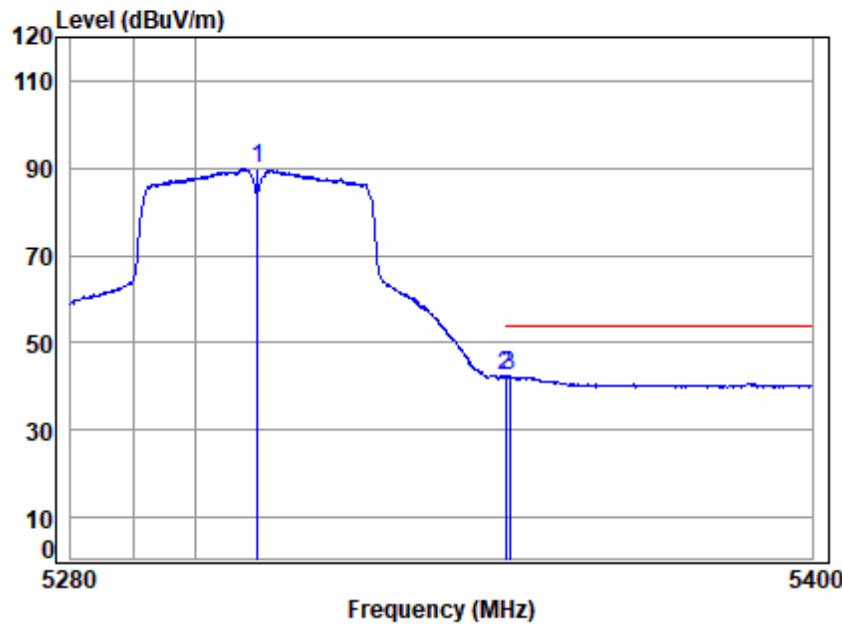
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5310.000	7.67	34.24	35.23	97.42	104.10	68.20	35.90 peak
2 5350.020	7.70	34.40	35.21	47.16	54.05	74.00	-19.95 peak
3 5352.759	7.71	34.41	35.21	48.98	55.89	74.00	-18.11 peak

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5310 Band edge
: 5G WIFI 11AC40

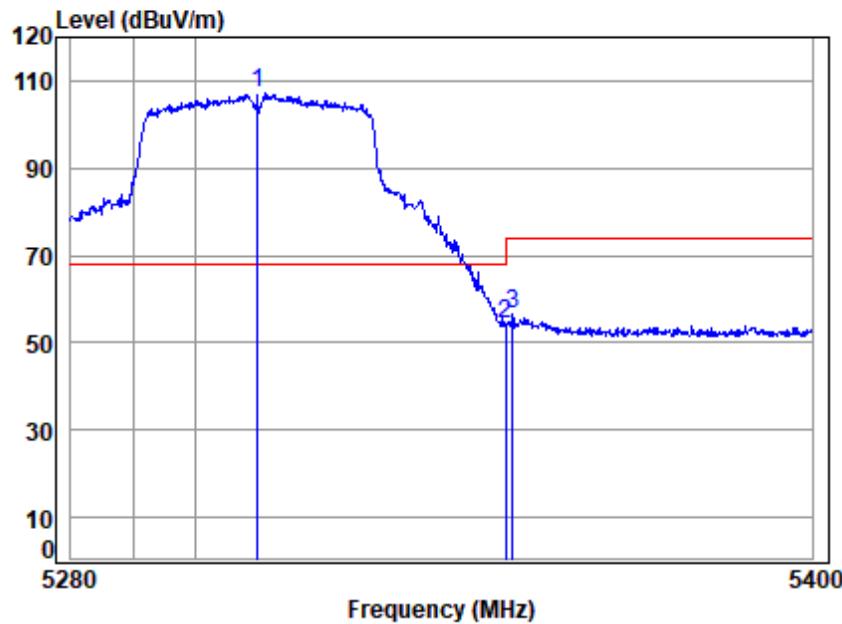
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5310.000	7.67	34.24	35.23	83.21	89.89	-----	-----	Average
2 5350.020	7.70	34.40	35.21	35.41	42.30	54.00	-11.70	Average
3 q 5350.714	7.71	34.40	35.21	35.51	42.41	54.00	-11.59	Average

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5310 Band edge
: 5G WIFI 11AC40

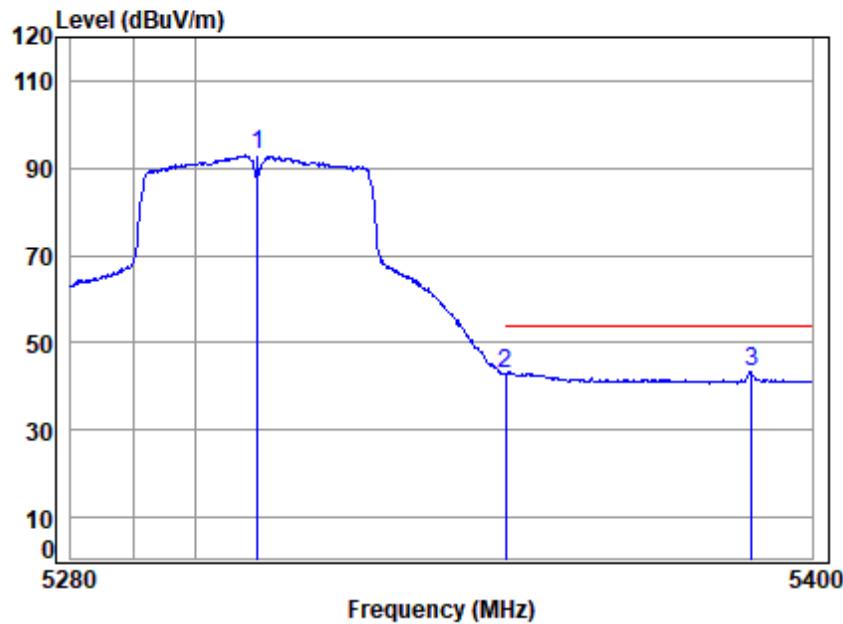
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB
1 p 5310.000	7.67	34.24	35.23	100.33	107.01	68.20	38.81	Peak
2 5350.020	7.70	34.40	35.21	47.58	54.47	74.00	-19.53	Peak
3 5351.195	7.71	34.40	35.21	49.66	56.56	74.00	-17.44	Peak

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5310 Band edge
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
						dB	dB/m	
1 5310.000	7.67	34.24	35.23	86.40	93.08	-----	-----	Average
2 5350.020	7.70	34.40	35.21	36.21	43.10	54.00	-10.90	Average
3 q 5390.058	7.73	34.56	35.19	36.13	43.23	54.00	-10.77	Average

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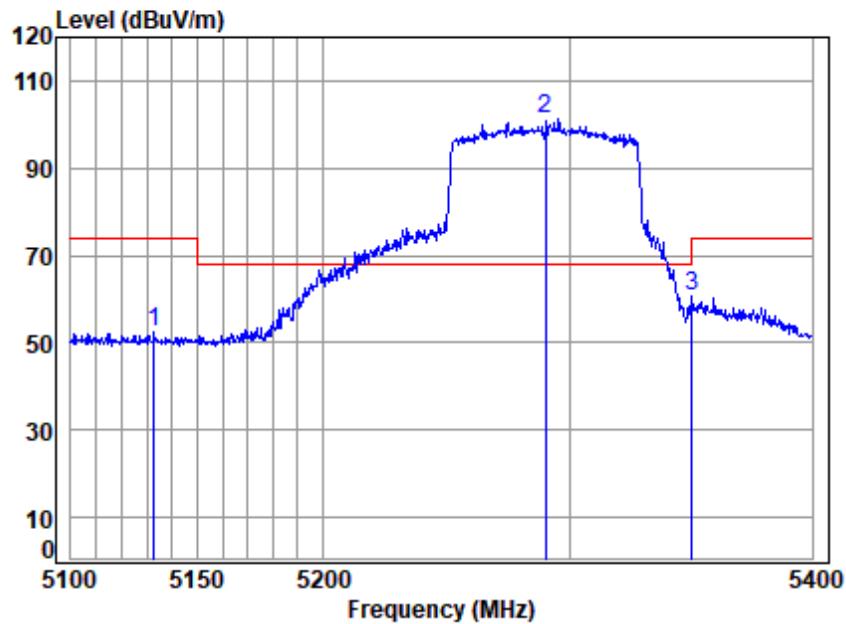
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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SGS-CSTC Laboratory)



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5290 Band edge
: 5G WIFI 11AC80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1	5132.753	7.54	33.93	35.32	46.22	52.37	74.00 -21.63 peak
2	5290.000	7.66	34.18	35.24	94.63	101.23	68.20 33.03 peak
3	5350.229	7.70	34.40	35.21	53.77	60.66	74.00 -13.34 peak

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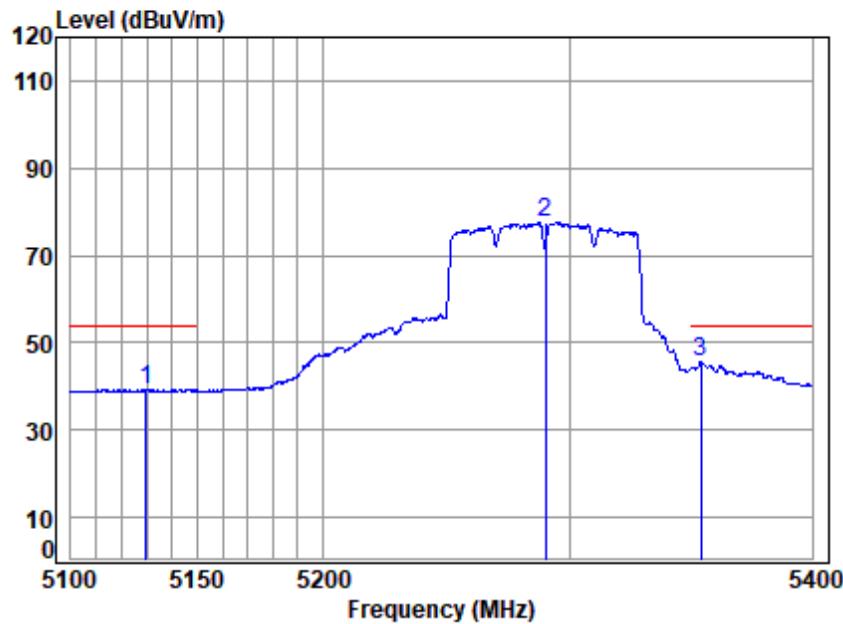
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Shenzhen Branch (SGS-CSTC Laboratory)



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5290 Band edge
: 5G WIFI 11AC80

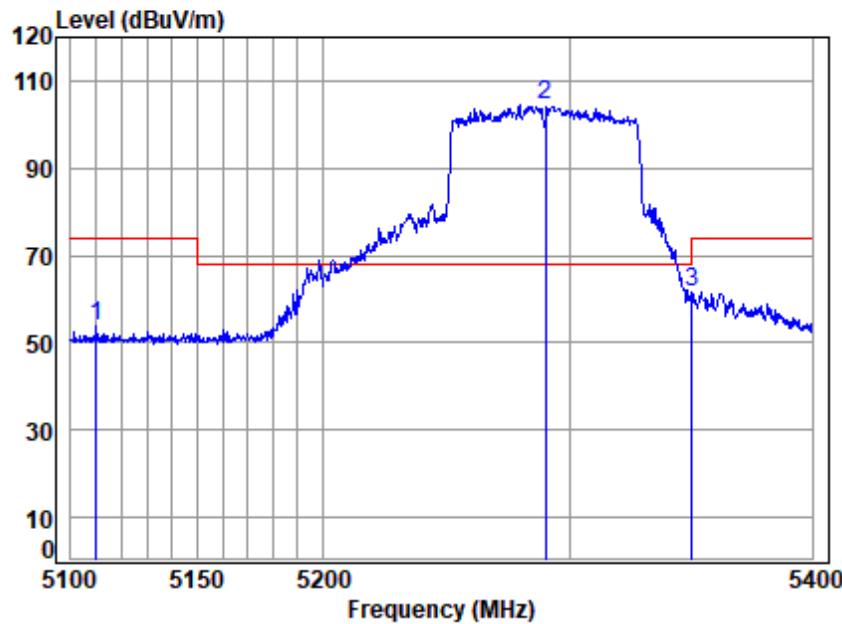
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 5129.821	7.53	33.94	35.32	33.07	39.22	54.00	-14.78	Average
2 5290.000	7.66	34.18	35.24	71.00	77.60	-----	-----	Average
3 q 5353.899	7.71	34.42	35.21	38.61	45.53	54.00	-8.47	Average

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5290 Band edge
: 5G WIFI 11AC80

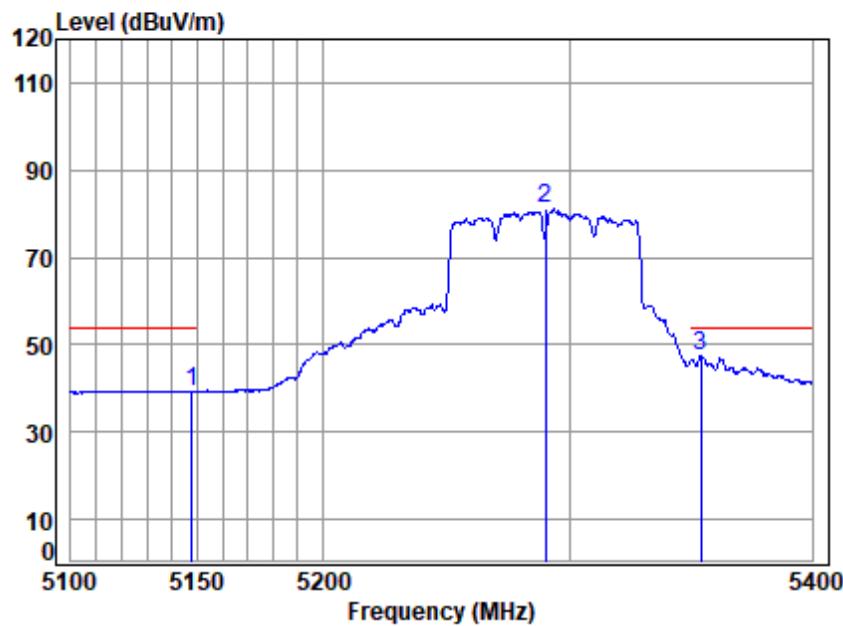
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 5110.213	7.52	33.98	35.33	47.52	53.69	74.00	-20.31 Peak
2 p 5290.000	7.66	34.18	35.24	98.03	104.63	68.20	36.43 Peak
3 5350.229	7.70	34.40	35.21	54.78	61.67	74.00	-12.33 Peak



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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5290 Band edge
: 5G WIFI 11AC80

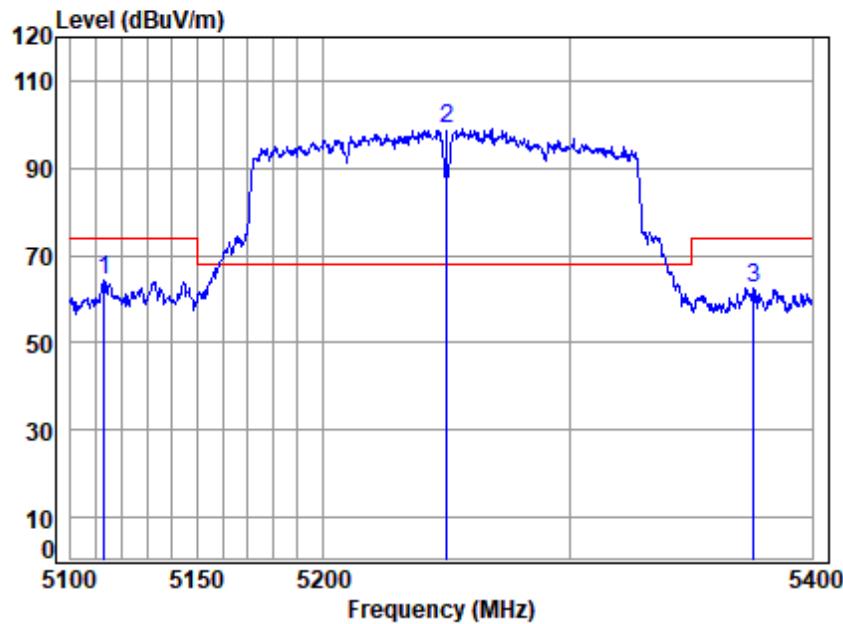
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5147.738	7.55	33.90	35.31	33.30	39.44	54.00	-14.56 Average
2 5290.000	7.66	34.18	35.24	74.45	81.05	-----	----- Average
3 q 5353.899	7.71	34.42	35.21	40.42	47.34	54.00	-6.66 Average

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5250 Band edge
: 5G WIFI 11AC160

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 5113.135	7.52	33.97	35.33	58.21	64.37	74.00	-9.63 peak
2 p 5250.000	7.63	34.10	35.26	92.39	98.86	68.20	30.66 peak
3 5375.671	7.72	34.50	35.20	55.46	62.48	74.00	-11.52 peak

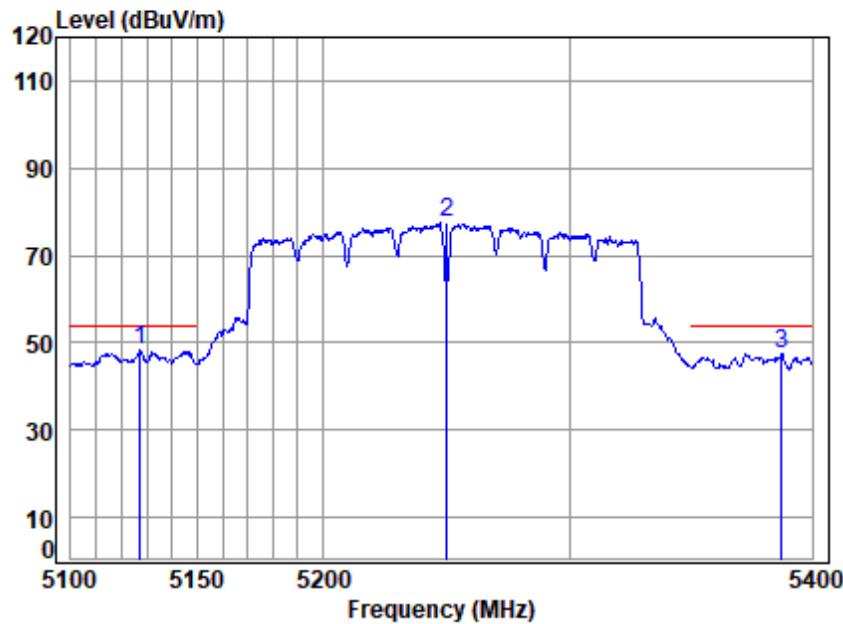
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Shenzhen Branch (CN) SGS Laboratory

Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5250 Band edge
: 5G WIFI 11AC160

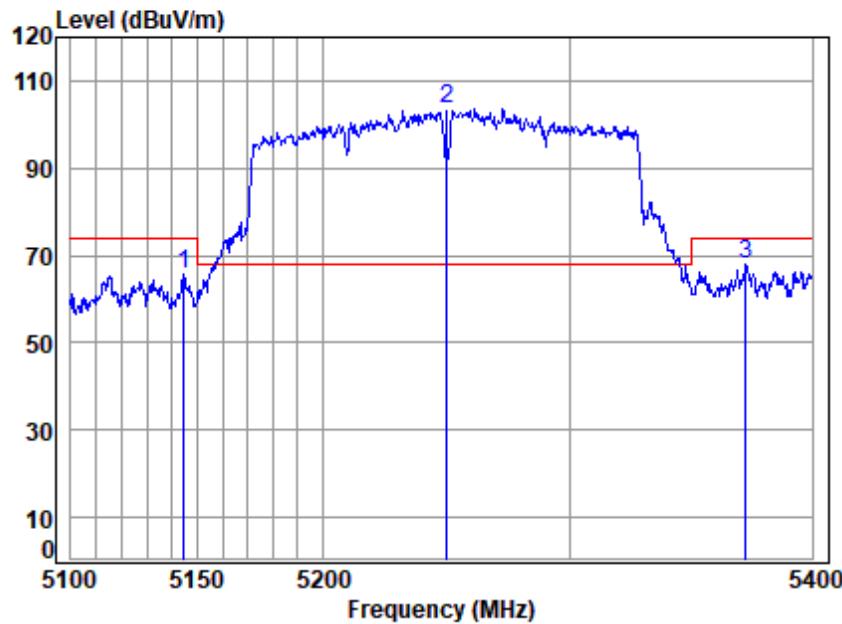
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 q 5127.183	7.53	33.95	35.32	41.99	48.15	54.00	-5.85 Average
2 5250.000	7.63	34.10	35.26	70.88	77.35	-----	----- Average
3 5387.360	7.73	34.55	35.19	40.41	47.50	54.00	-6.50 Average

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5250 Band edge
: 5G WIFI 11AC160

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 5144.796	7.55	33.91	35.31	59.33	65.48	74.00	-8.52 Peak
2 p 5250.000	7.63	34.10	35.26	97.16	103.63	68.20	35.43 Peak
3 5372.292	7.72	34.49	35.20	61.00	68.01	74.00	-5.99 Peak

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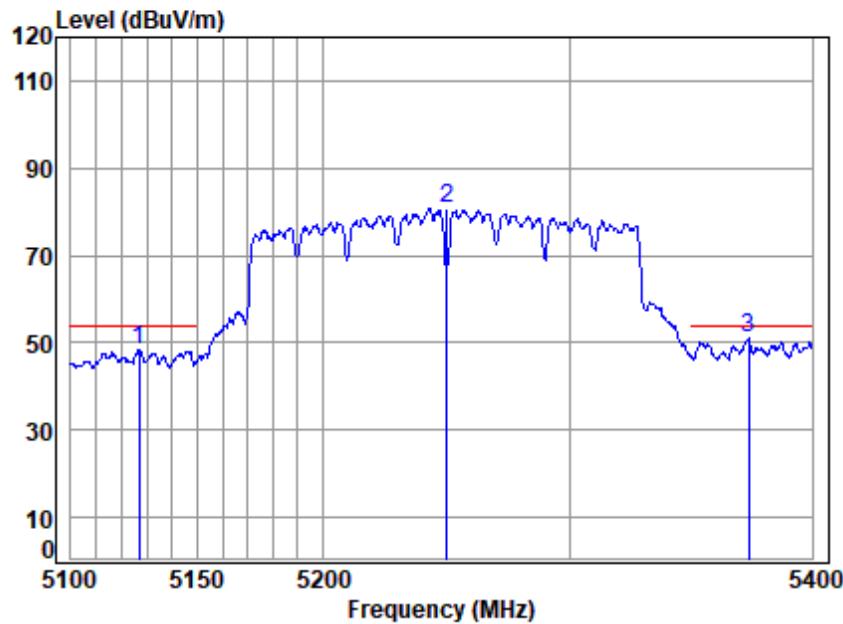
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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SGS-CSTC Laboratory)



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5250 Band edge
: 5G WIFI 11AC160

		Cable Freq	Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
		MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	5126.889	7.53	33.95	35.32	42.31	48.47	54.00	54.00	-5.53	Average
2	5250.000	7.63	34.10	35.26	74.18	80.65	-----	-----	-----	Average
3	q 5373.828	7.72	34.50	35.20	43.93	50.95	54.00	54.00	-3.05	Average

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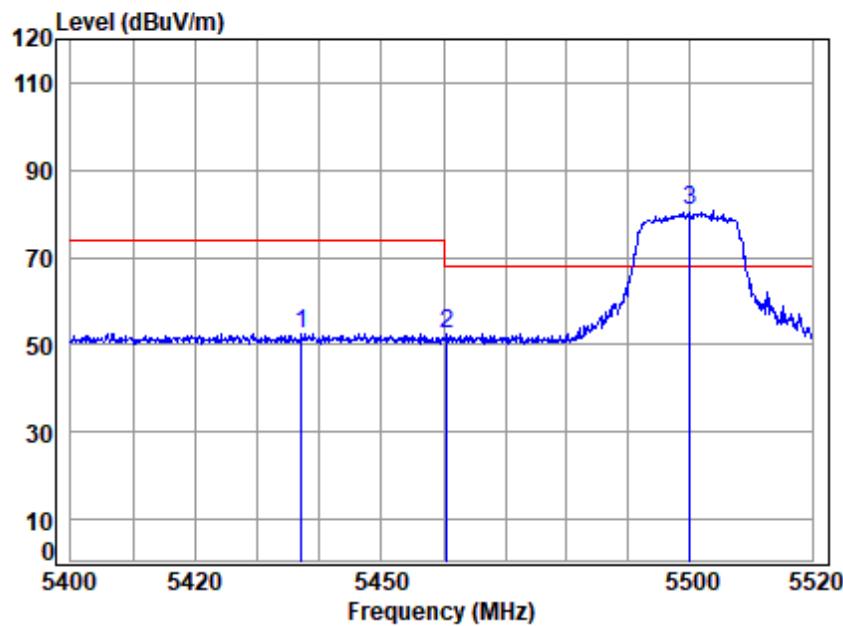
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5500 Band edge
: 5G WIFI 11A

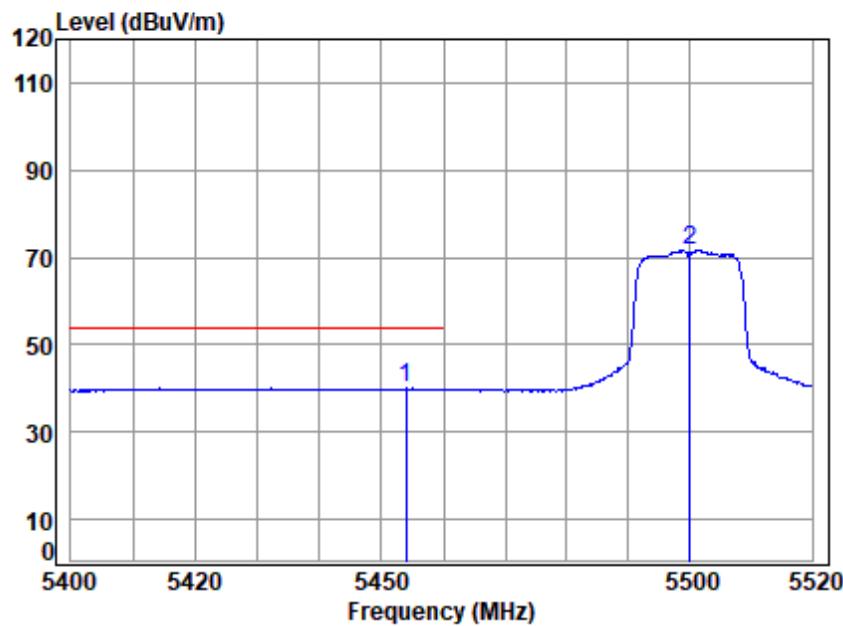
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m
1 5437.038	7.77	34.67	35.16	45.32	52.60	74.00	-21.40 peak
2 5460.510	7.79	34.66	35.15	45.33	52.63	68.20	-15.57 peak
3 p 5500.000	7.82	34.50	35.13	73.43	80.62	68.20	12.42 peak

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5500 Band edge
: 5G WIFI 11A

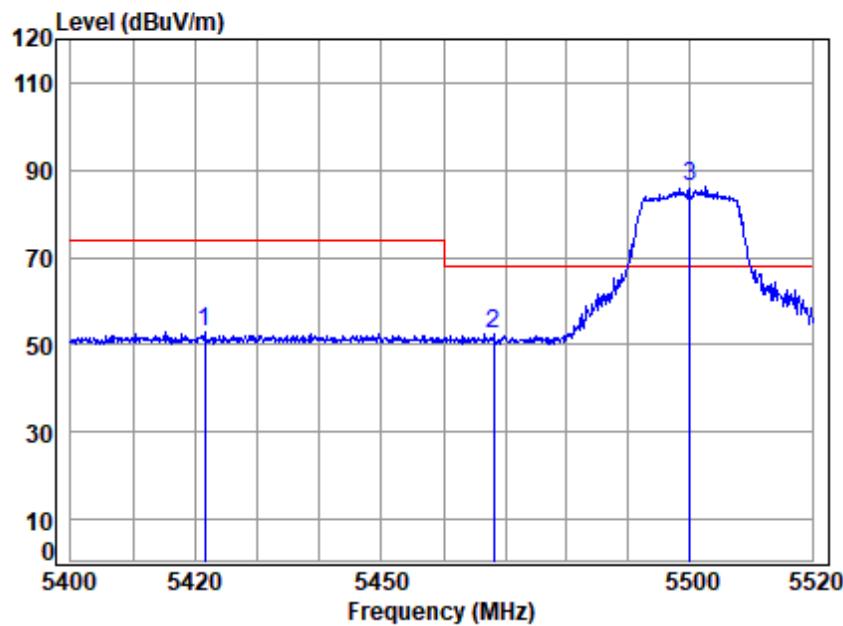
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5453.914	7.78	34.68	35.16	32.70	40.00	54.00	-14.00 Average
2 5500.000	7.82	34.50	35.13	64.50	71.69	-----	----- Average



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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5500 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 5421.525	7.76	34.64	35.17	45.70	52.93	74.00	-21.07 Peak
2 5468.197	7.79	34.63	35.15	45.06	52.33	68.20	-15.87 peak
3 p 5500.000	7.82	34.50	35.13	78.93	86.12	68.20	17.92 Peak



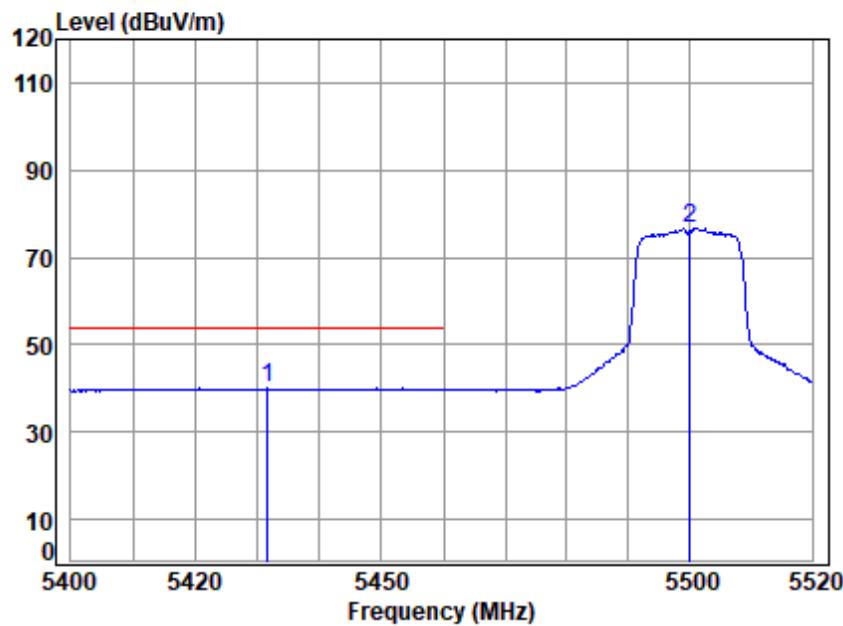
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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5500 Band edge
: 5G WIFI 11A

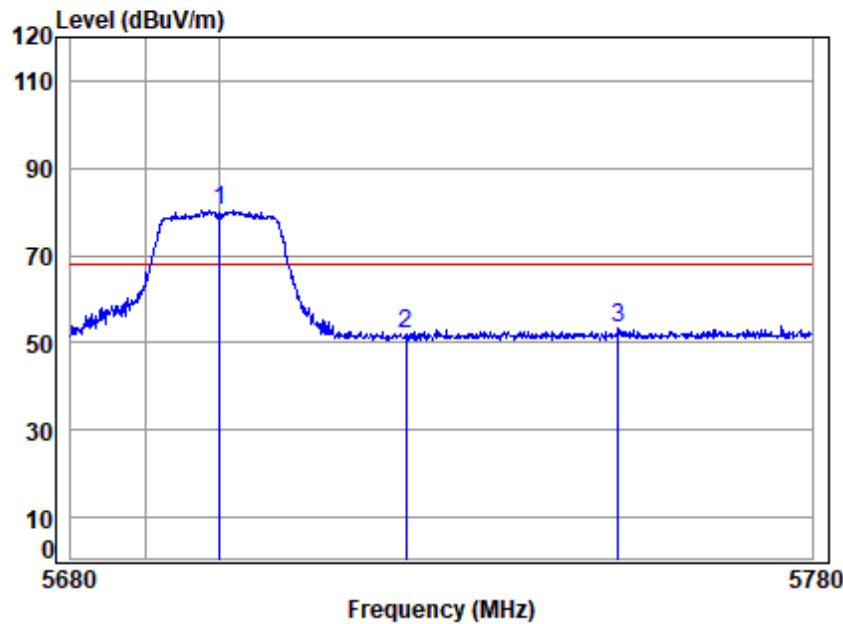
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5431.543	7.77	34.66	35.17	32.75	40.01	54.00	-13.99 Average
2 5500.000	7.82	34.50	35.13	69.46	76.65	-----	----- Average



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5700 Band edge
: 5G WIFI 11A

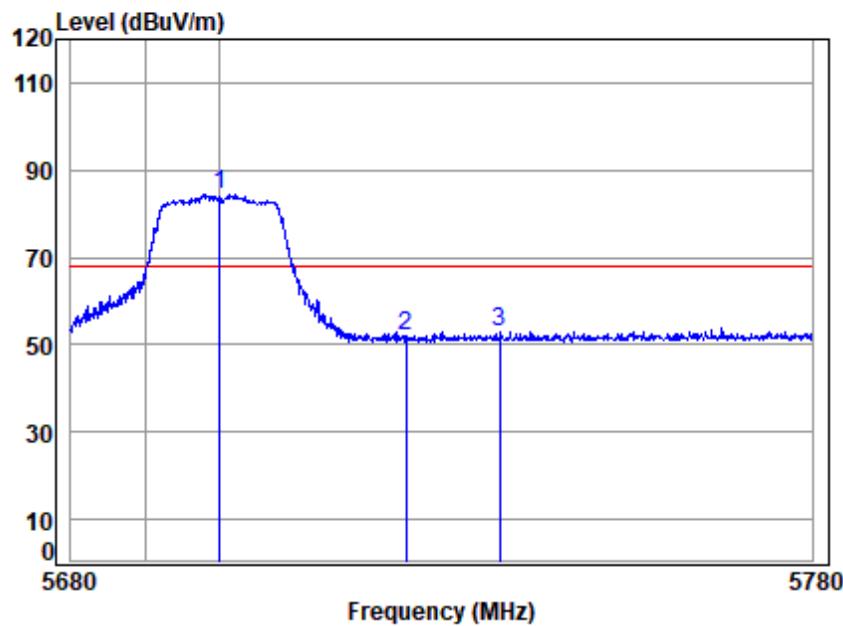
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m
1 p 5700.000	7.96	34.30	35.04	73.04	80.26	68.20	12.06 peak
2 5725.000	7.98	34.25	35.03	44.60	51.80	68.20	-16.40 peak
3 5753.731	8.00	34.21	35.01	46.09	53.29	68.20	-14.91 peak

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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5700 Band edge
: 5G WIFI 11A

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5700.000	7.96	34.30	35.04	77.14	84.36	68.20	16.16 Peak
2 5725.000	7.98	34.25	35.03	44.88	52.08	68.20	-16.12 Peak
3 5737.687	7.99	34.22	35.02	45.75	52.94	68.20	-15.26 Peak

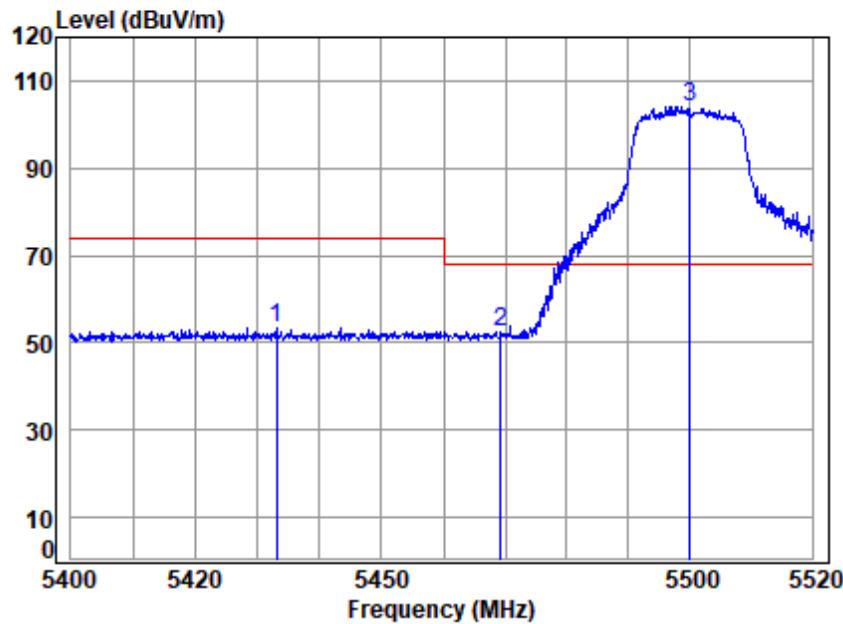
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5500 Band edge
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1	5432.977	7.77	34.67	35.17	46.34	53.61	74.00 -20.39 peak
2	5469.279	7.79	34.62	35.15	45.38	52.64	68.20 -15.56 peak
3 p	5500.000	7.82	34.50	35.13	96.95	104.14	68.20 35.94 peak

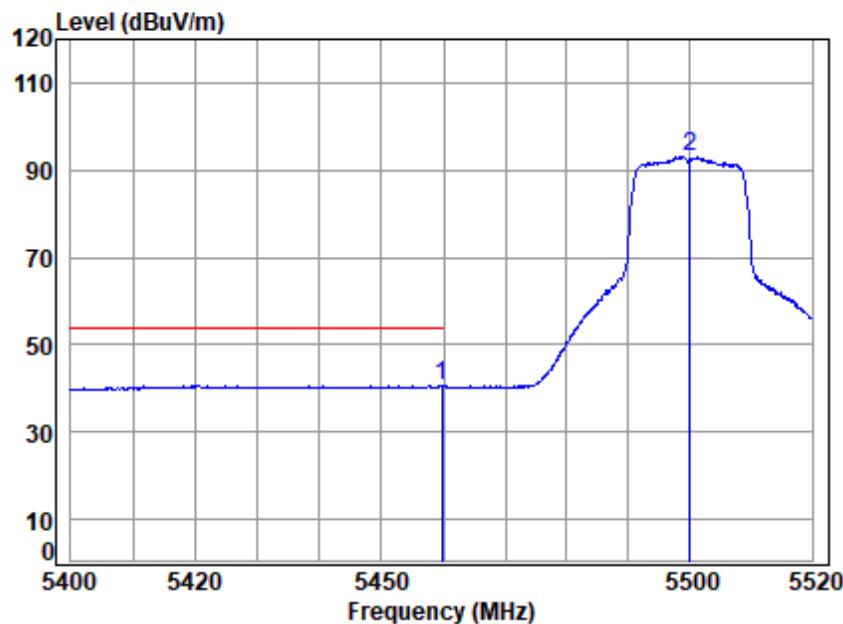
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5500 Band edge
: 5G WIFI 11AC20

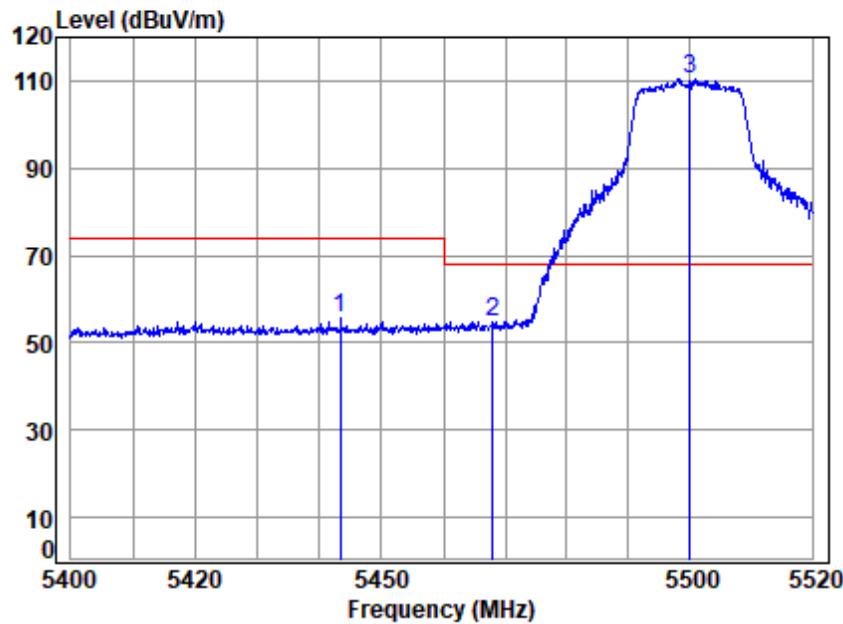
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5459.791	7.79	34.66	35.15	33.50	40.80	54.00	-13.20 Average
2 5500.000	7.82	34.50	35.13	86.07	93.26	-----	----- Average



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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5500 Band edge
: 5G WIFI 11AC20

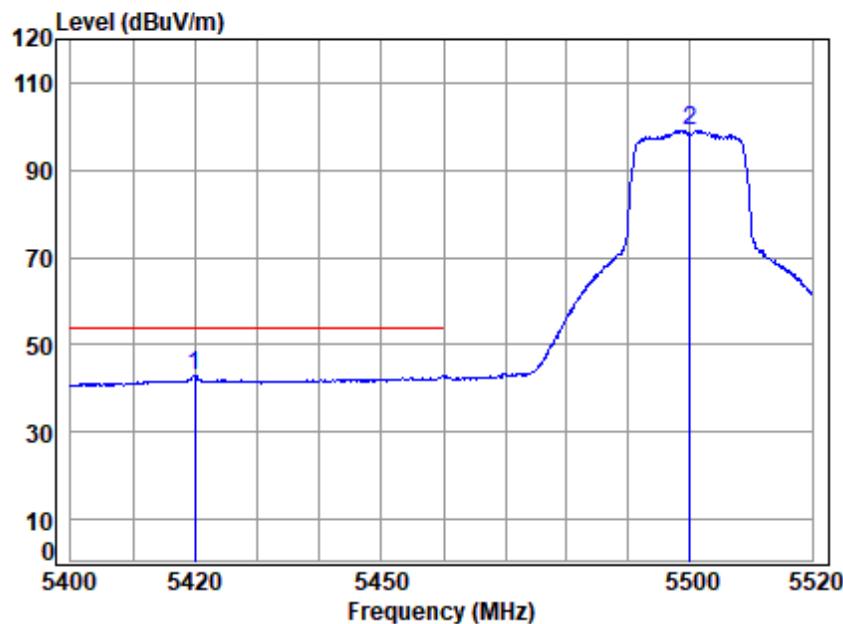
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5443.375	7.77	34.69	35.16	48.19	55.49	74.00	-18.51 Peak
2 5467.957	7.79	34.63	35.15	47.57	54.84	68.20	-13.36 peak
3 p 5500.000	7.82	34.50	35.13	103.44	110.63	68.20	42.43 Peak

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5500 Band edge
: 5G WIFI 11AC20

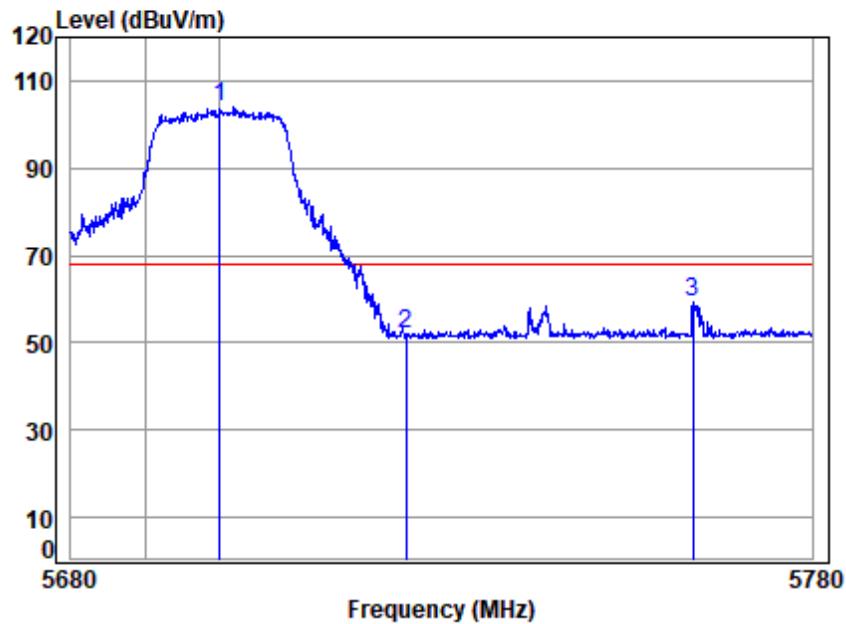
Freq	Cable	Ant	Preamp	Read	Limit	Over	Limit	Remark
	Loss	Factor	Factor	Level				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5419.857	7.76	34.64	35.17	35.82	43.05	54.00	-10.95	Average
2 5500.000	7.82	34.50	35.13	91.89	99.08	-----	-----	Average

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5700 Band edge
: 5G WIFI 11AC20

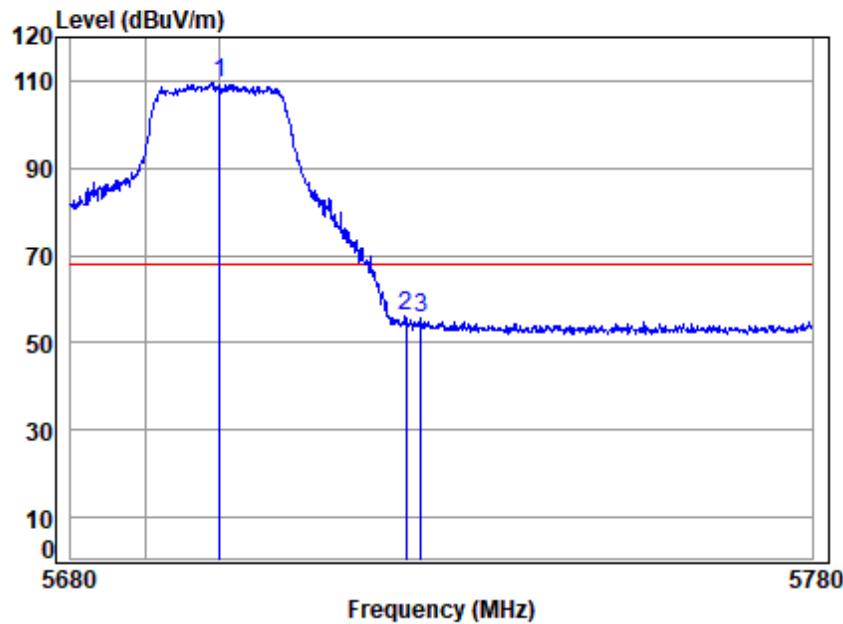
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5700.000	7.96	34.30	35.04	96.76	103.98	68.20	35.78 peak
2 5725.000	7.98	34.25	35.03	44.83	52.03	68.20	-16.17 peak
3 5763.782	8.01	34.23	35.01	52.11	59.34	68.20	-8.86 peak

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5700 Band edge
: 5G WIFI 11AC20

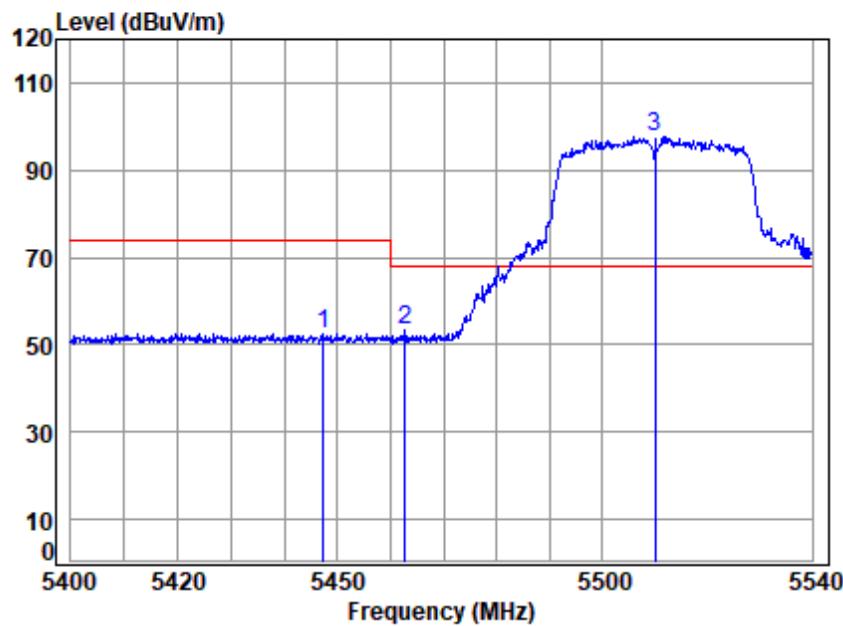
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
1 p 5700.000	7.96	34.30	35.04	102.51	109.73	68.20	41.53	Peak	
2 5725.000	7.98	34.25	35.03	49.10	56.30	68.20	-11.90	Peak	
3 5726.982	7.98	34.25	35.03	48.27	55.47	68.20	-12.73	Peak	

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

Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5510 Band edge
: 5G WIFI 11AC40

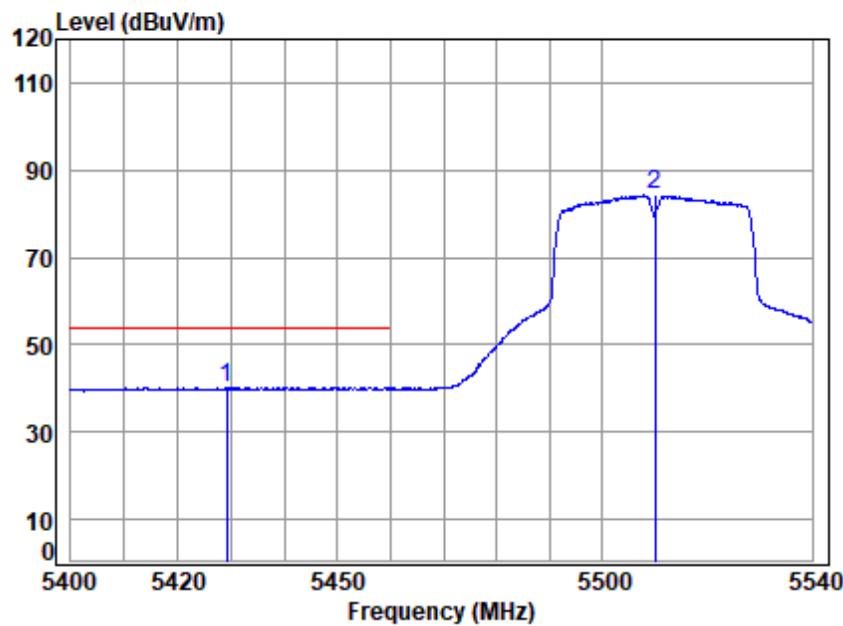
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m
1 5447.338	7.78	34.69	35.16	45.34	52.65	74.00	-21.35 peak
2 5462.697	7.79	34.65	35.15	46.24	53.53	68.20	-14.67 peak
3 p 5510.000	7.82	34.54	35.13	90.51	97.74	68.20	29.54 peak

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5510 Band edge
: 5G WIFI 11AC40

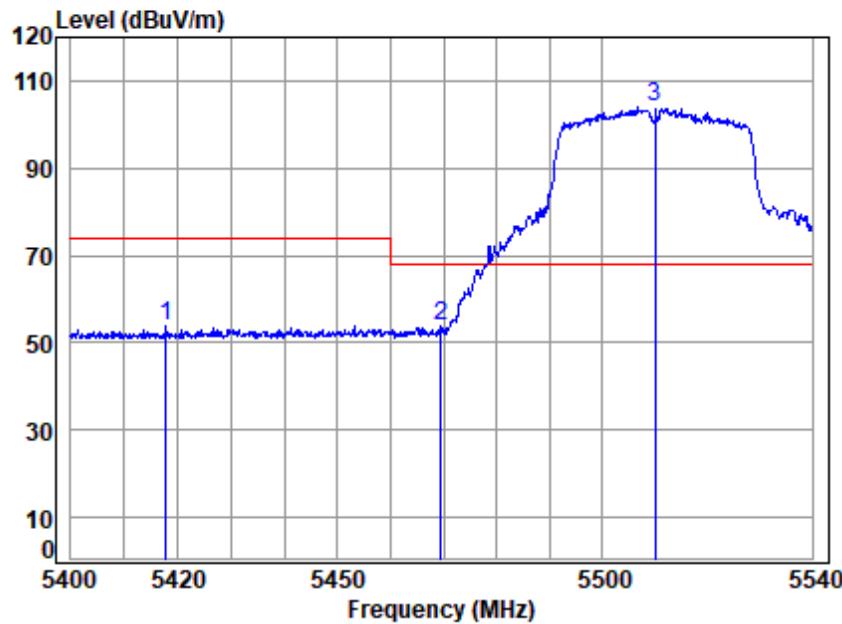
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5429.243	7.76	34.66	35.17	32.92	40.17	54.00	-13.83 Average
2 5510.000	7.82	34.54	35.13	77.07	84.30	-----	----- Average



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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5510 Band edge
: 5G WIFI 11AC40

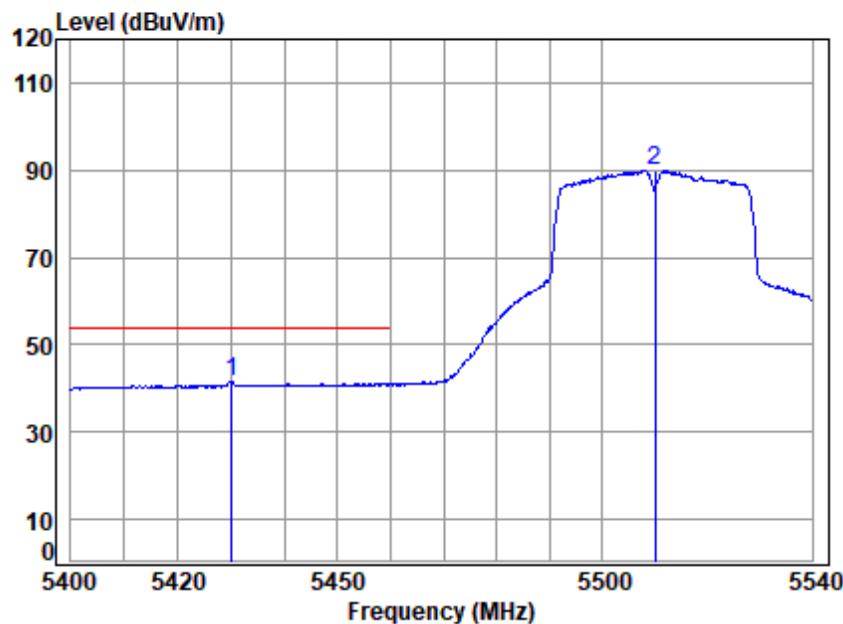
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m
1 5417.859	7.76	34.64	35.17	46.83	54.06	74.00	-19.94 Peak
2 5469.552	7.79	34.62	35.15	46.63	53.89	68.20	-14.31 peak
3 p 5510.000	7.82	34.54	35.13	96.62	103.85	68.20	35.65 Peak

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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch No. 10, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057

Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5510 Band edge
: 5G WIFI 11AC40

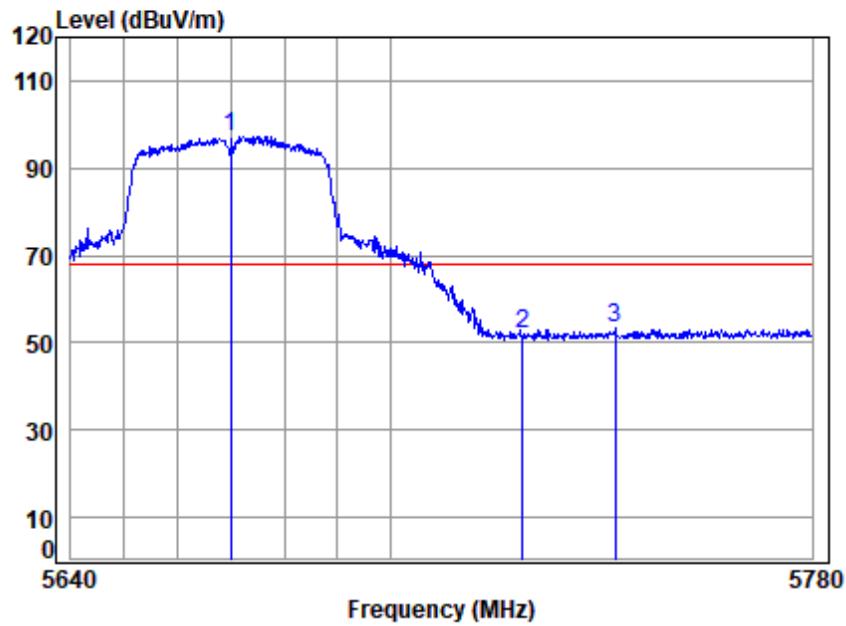
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5430.076	7.76	34.66	35.17	34.25	41.50	54.00	-12.50 Average
2 5510.000	7.82	34.54	35.13	82.62	89.85	-----	----- Average



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5670 Band edge
: 5G WIFI 11AC40

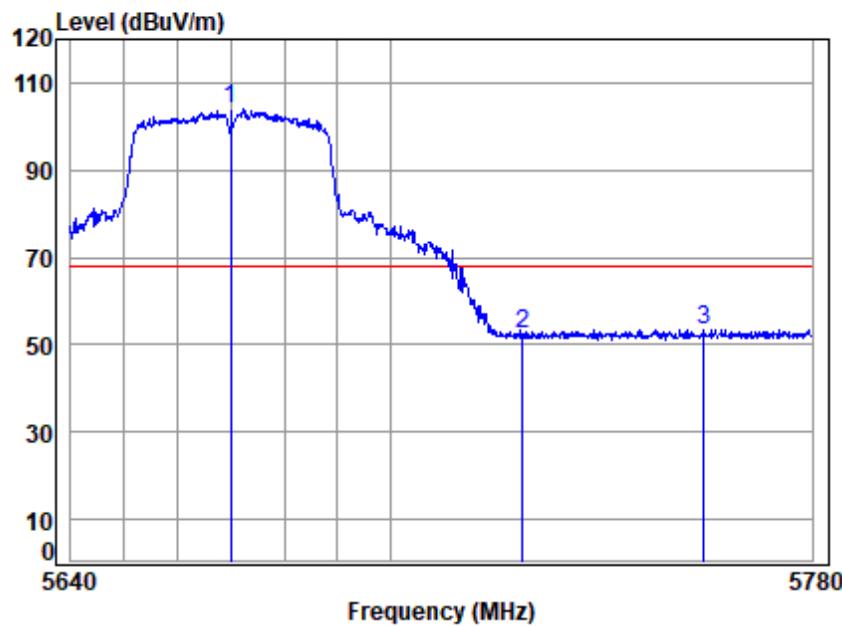
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5670.000	7.94	34.36	35.05	90.10	97.35	68.20	29.15 peak
2 5725.000	7.98	34.25	35.03	44.82	52.02	68.20	-16.18 peak
3 5742.424	7.99	34.22	35.02	46.10	53.29	68.20	-14.91 peak

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5670 Band edge
: 5G WIFI 11AC40

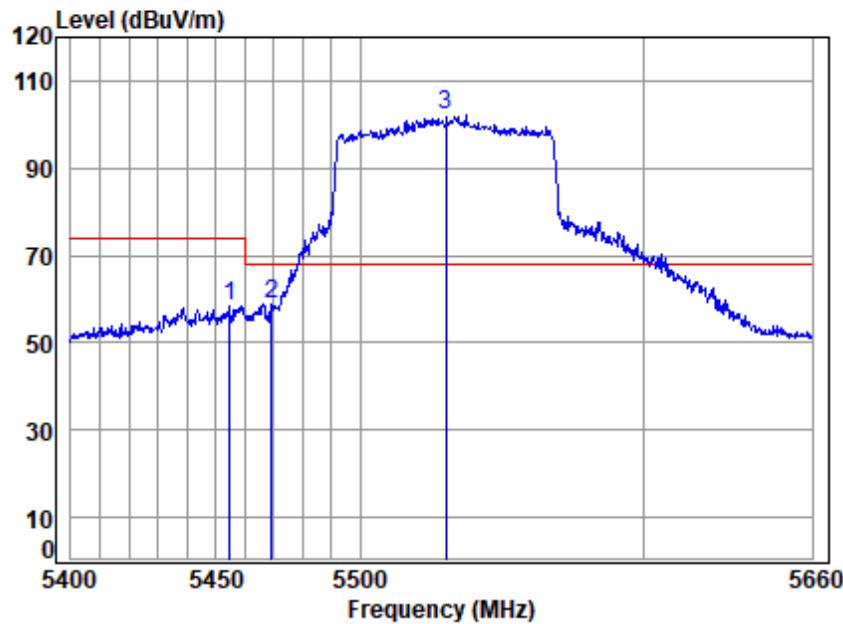
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5670.000	7.94	34.36	35.05	96.71	103.96	68.20	35.76 Peak
2 5725.000	7.98	34.25	35.03	45.44	52.64	68.20	-15.56 Peak
3 5759.345	8.00	34.22	35.01	46.31	53.52	68.20	-14.68 Peak

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5530 Band edge
: 5G WIFI 11AC80

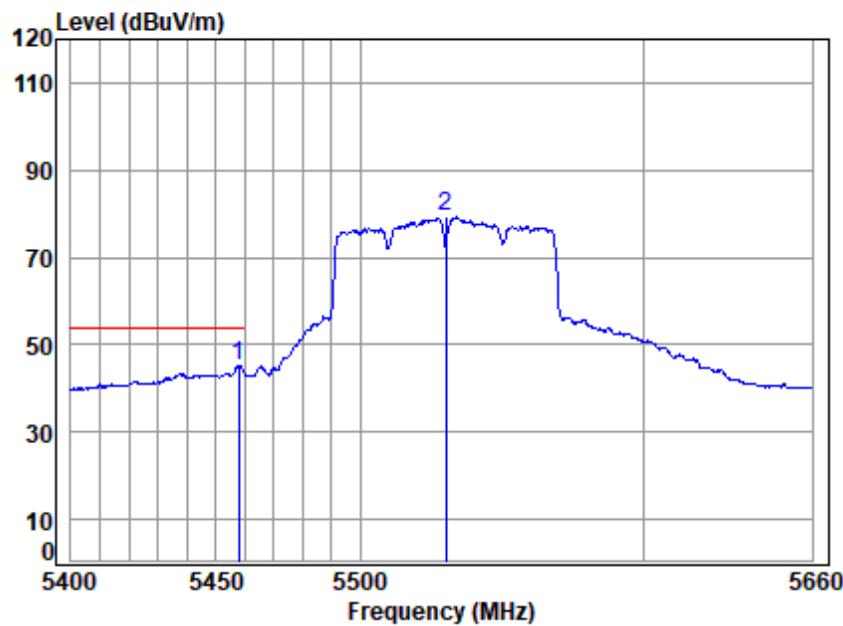
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 5454.616	7.78	34.68	35.16	51.27	58.57	74.00	-15.43	peak
2 5469.257	7.79	34.62	35.15	51.71	58.97	68.20	-9.23	peak
3 p 5530.000	7.84	34.62	35.12	94.76	102.10	68.20	33.90	peak

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5530 Band edge
: 5G WIFI 11AC80

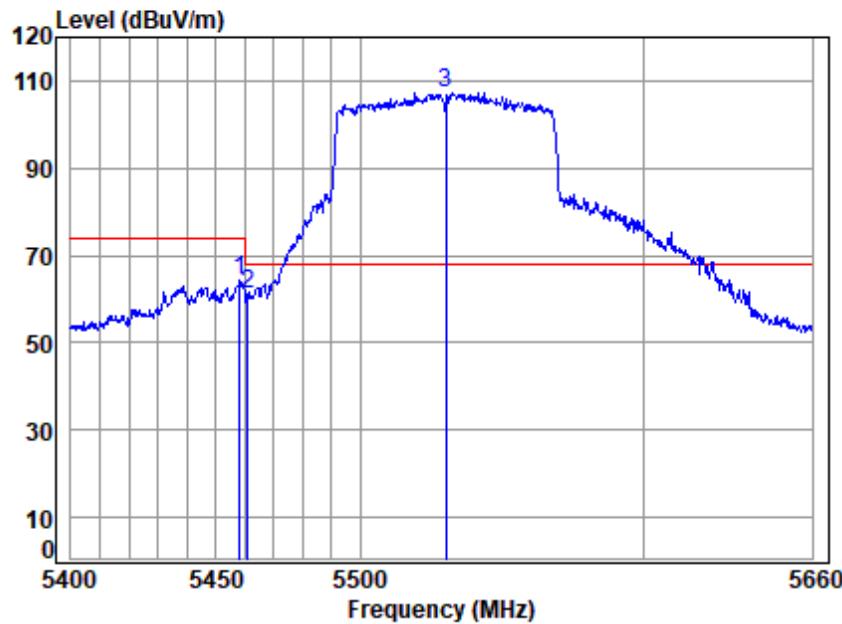
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5457.695	7.79	34.67	35.15	37.71	45.02	54.00	-8.98	Average
2 5530.000	7.84	34.62	35.12	71.88	79.22	-----	-----	Average

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5530 Band edge
: 5G WIFI 11AC80

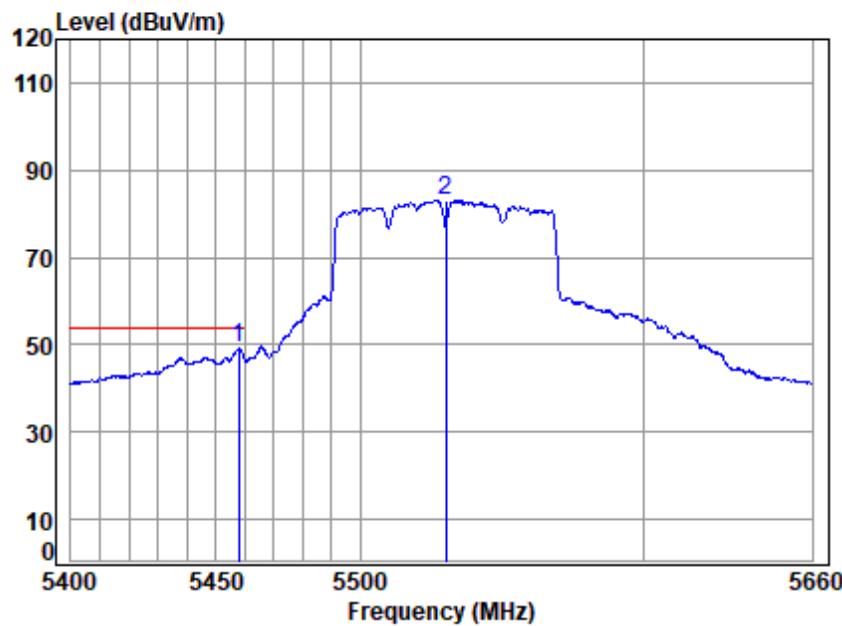
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5458.208	7.79	34.67	35.15	56.90	64.21	74.00	-9.79	Peak
2 5460.776	7.79	34.66	35.15	53.90	61.20	68.20	-7.00	Peak
3 p 5530.000	7.84	34.62	35.12	99.86	107.20	68.20	39.00	Peak

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5530 Band edge
: 5G WIFI 11AC80

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5457.695	7.79	34.67	35.15	41.88	49.19	54.00	-4.81 Average
2 5530.000	7.84	34.62	35.12	75.71	83.05	-----	----- Average

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Shenzhen Branch No. 10, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057

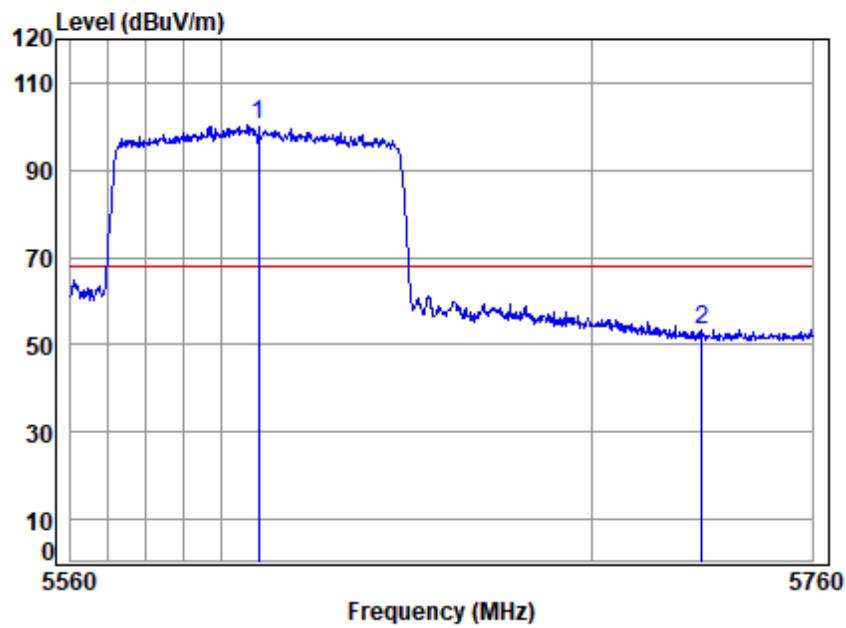
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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5610 Band edge
: 5G WIFI 11AC80

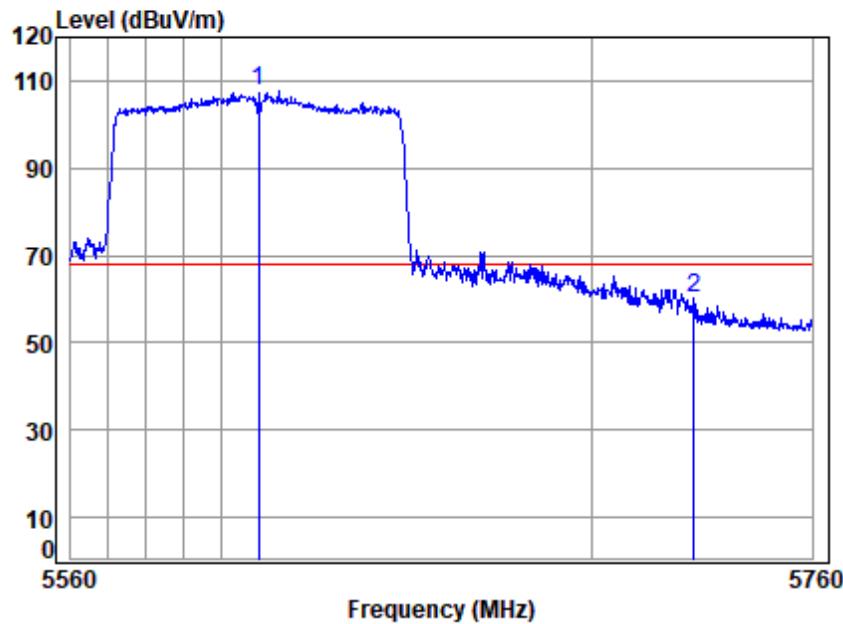
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5610.000	7.90	34.64	35.08	92.97	100.43	68.20	32.23 peak
2 5729.953	7.98	34.24	35.02	46.39	53.59	68.20	-14.61 peak



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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5610 Band edge
: 5G WIFI 11AC80

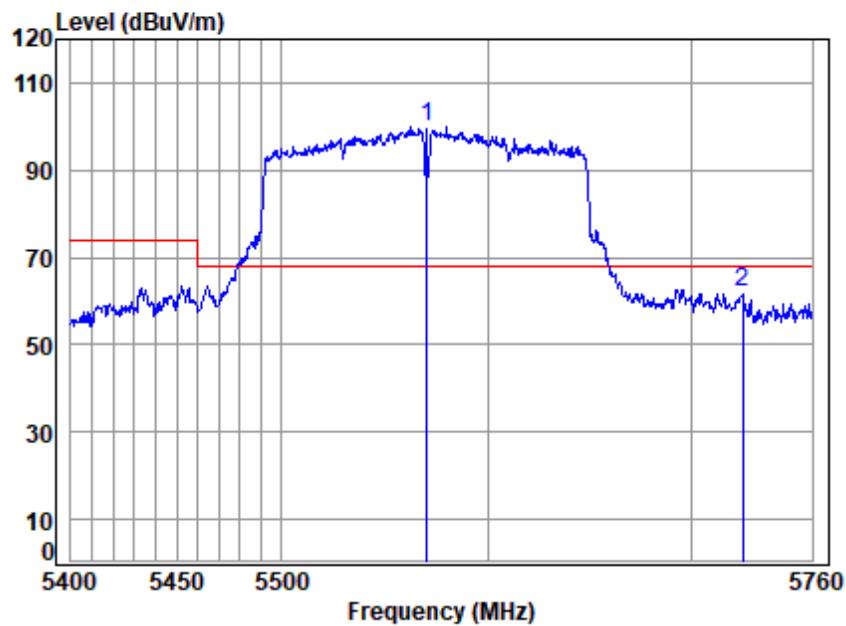
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 p 5610.000	7.90	34.64	35.08	100.12	107.58	68.20	39.38 Peak
2 5727.726	7.98	34.24	35.02	52.89	60.09	68.20	-8.11 Peak

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5570 Band edge
: 5G WIFI 11AC160

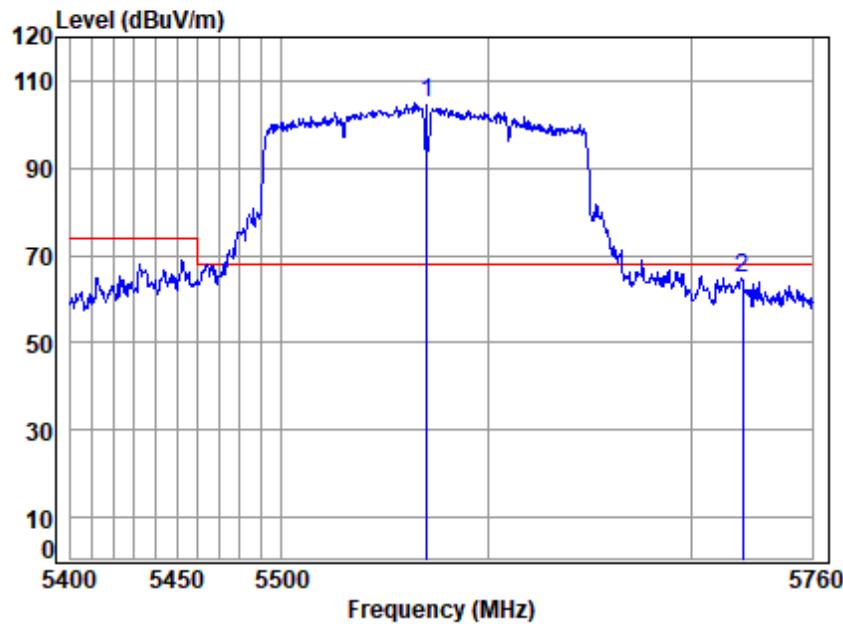
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5570.000	7.87	34.70	35.10	92.35	99.82	68.20	31.62	peak
2 5725.162	7.98	34.25	35.03	54.86	62.06	68.20	-6.14	peak

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5570 Band edge
: 5G WIFI 11AC160

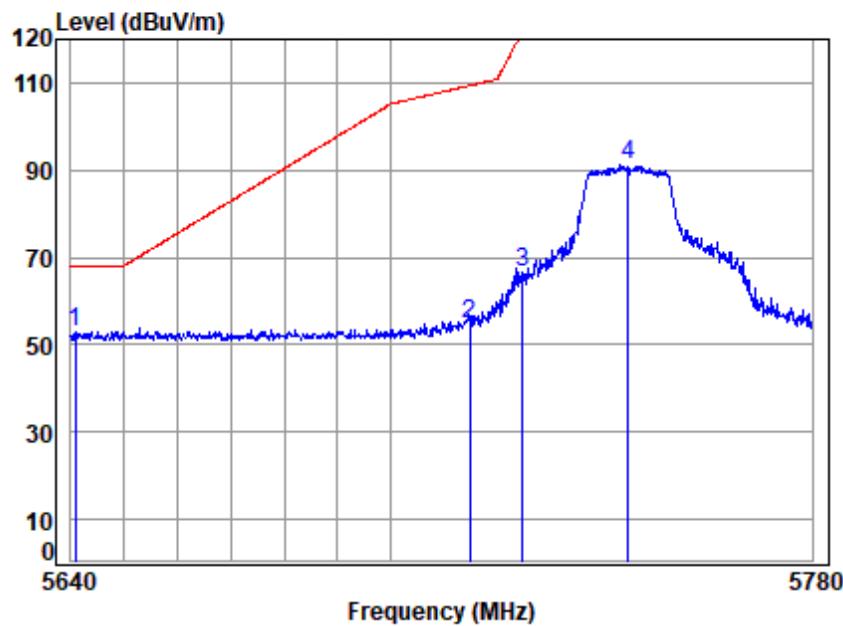
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5570.000	7.87	34.70	35.10	97.58	105.05	68.20	36.85 Peak
2 5725.162	7.98	34.25	35.03	57.50	64.70	68.20	-3.50 Peak



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



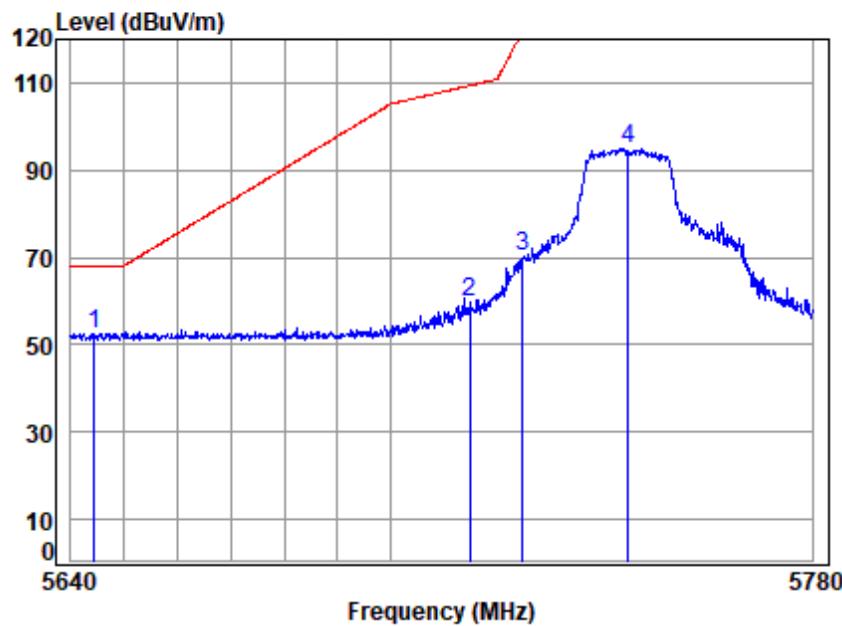
Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5745 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 p 5640.830	7.92	34.46	35.07	45.80	53.11	68.20	-15.09 peak
2 5715.000	7.97	34.27	35.03	47.41	54.62	109.40	-54.78 peak
3 5725.000	7.98	34.25	35.03	59.59	66.79	122.20	-55.41 peak
4 5745.000	7.99	34.21	35.02	84.15	91.33	-----	----- peak

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



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5745 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 p 5644.427	7.92	34.43	35.06	45.37	52.66	68.20	-15.54 peak
2 5715.000	7.97	34.27	35.03	52.58	59.79	109.40	-49.61 peak
3 5725.000	7.98	34.25	35.03	63.08	70.28	122.20	-51.92 peak
4 5745.000	7.99	34.21	35.02	87.85	95.03	-----	----- peak

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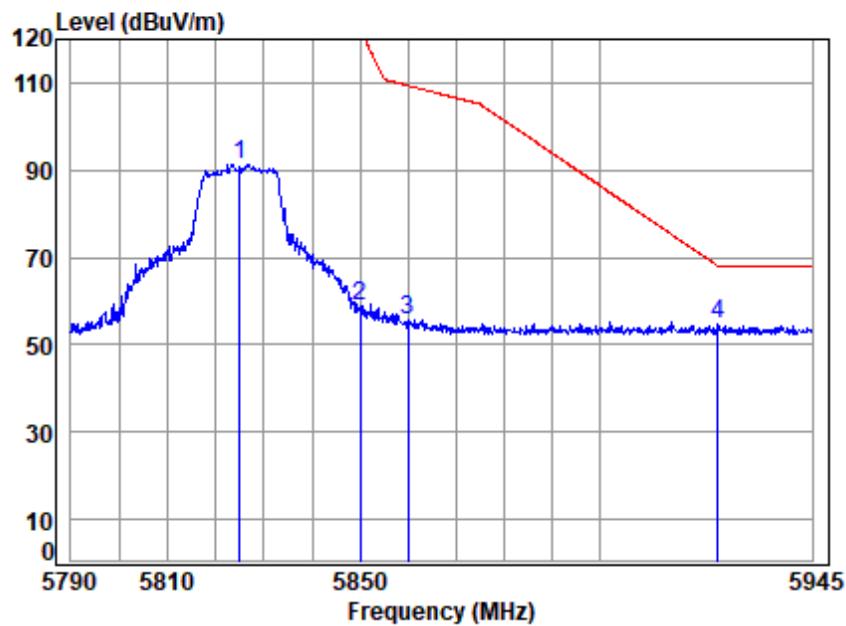
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Shenzhen Branch (CN) SGS Laboratory

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5825 Band edge
: 5G WIFI 11A

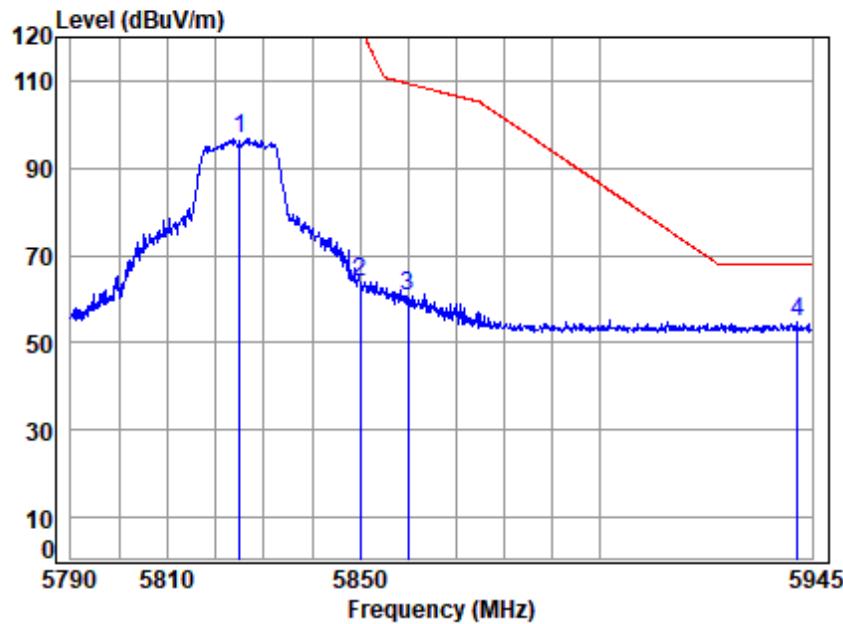
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5825.000	8.05	34.35	34.98	83.84	91.26	-----	-----	peak
2 5850.000	8.07	34.40	34.97	51.28	58.78	122.20	-63.42	peak
3 5860.000	8.07	34.44	34.96	48.03	55.58	109.40	-53.82	peak
4 p 5925.087	8.12	34.65	34.93	46.98	54.82	68.20	-13.38	peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5825 Band edge
: 5G WIFI 11A

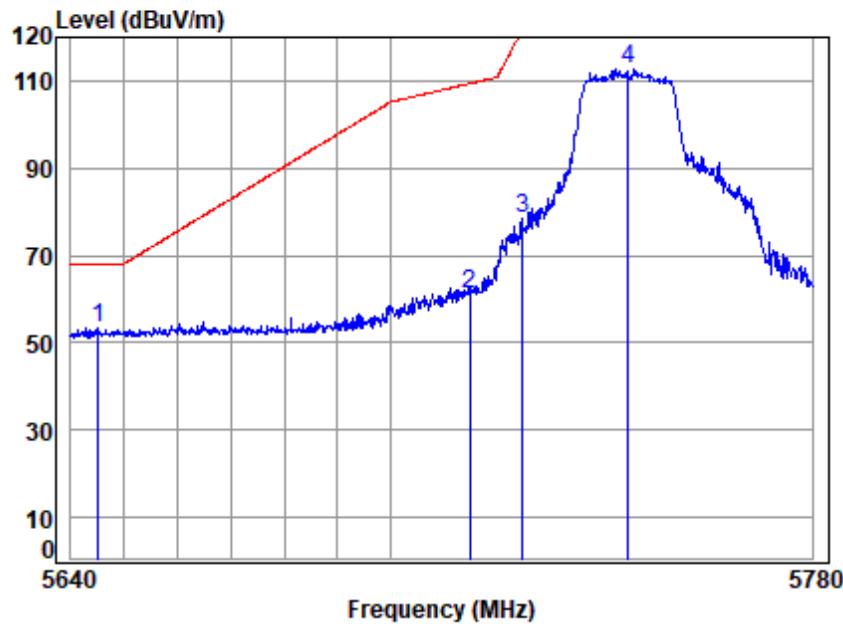
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m
1 5825.000	8.05	34.35	34.98	89.27	96.69	-----	----- peak
2 5850.000	8.07	34.40	34.97	56.46	63.96	122.20	-58.24 peak
3 5860.000	8.07	34.44	34.96	53.01	60.56	109.40	-48.84 peak
4 p 5941.860	8.13	34.68	34.93	46.65	54.53	68.20	-13.67 peak

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5745 Band edge
: 5G WIFI 11AC20

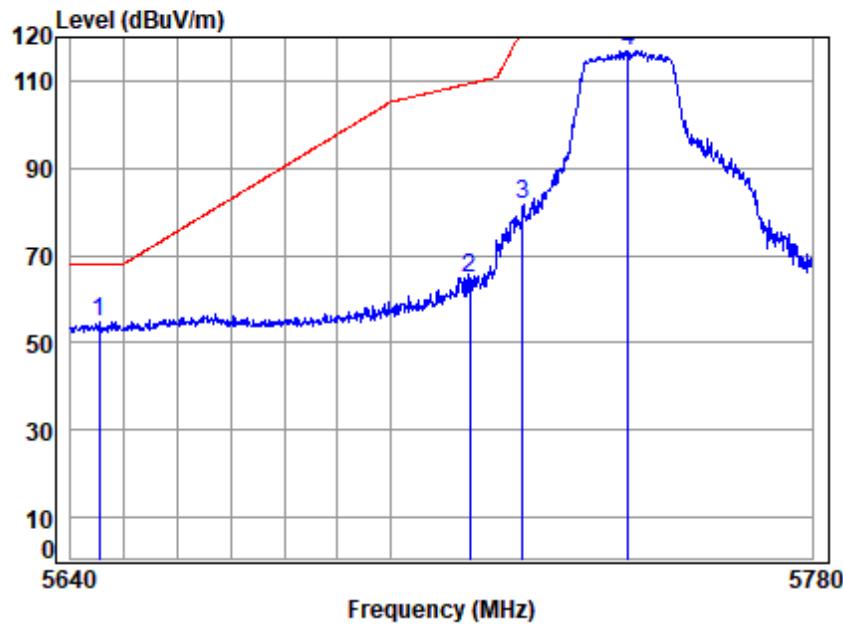
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 p 5645.119	7.92	34.43	35.06	46.24	53.53	68.20	-14.67 peak
2 5715.000	7.97	34.27	35.03	54.09	61.30	109.40	-48.10 peak
3 5725.000	7.98	34.25	35.03	71.21	78.41	122.20	-43.79 peak
4 5745.000	7.99	34.21	35.02	105.67	112.85	-----	----- peak

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



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5745 Band edge
: 5G WIFI 11AC20

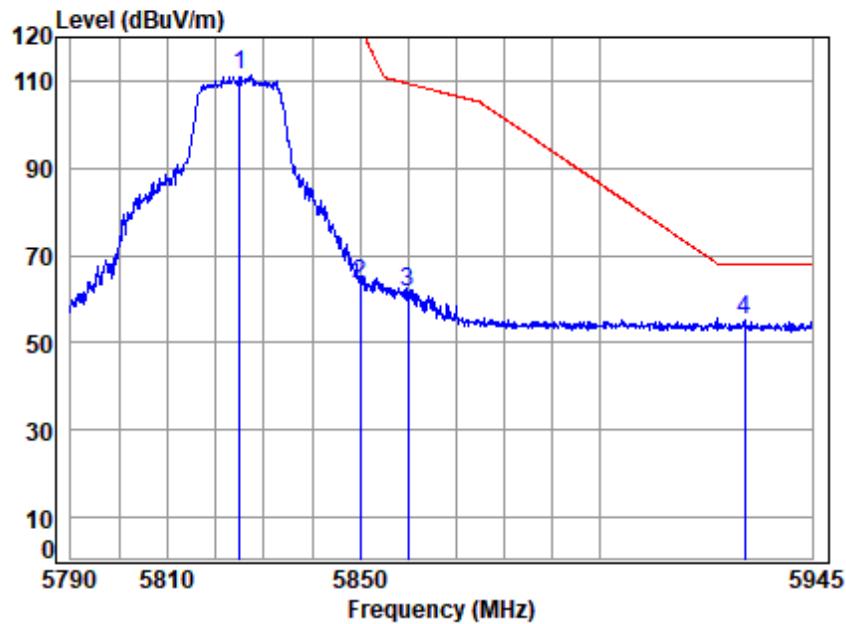
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m
1 p 5645.396	7.92	34.43	35.06	47.57	54.86	68.20	-13.34 peak
2 5715.000	7.97	34.27	35.03	57.62	64.83	109.40	-44.57 peak
3 5725.000	7.98	34.25	35.03	74.33	81.53	122.20	-40.67 peak
4 5745.000	7.99	34.21	35.02	109.67	116.85	-----	----- peak

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5825 Band edge
: 5G WIFI 11AC20

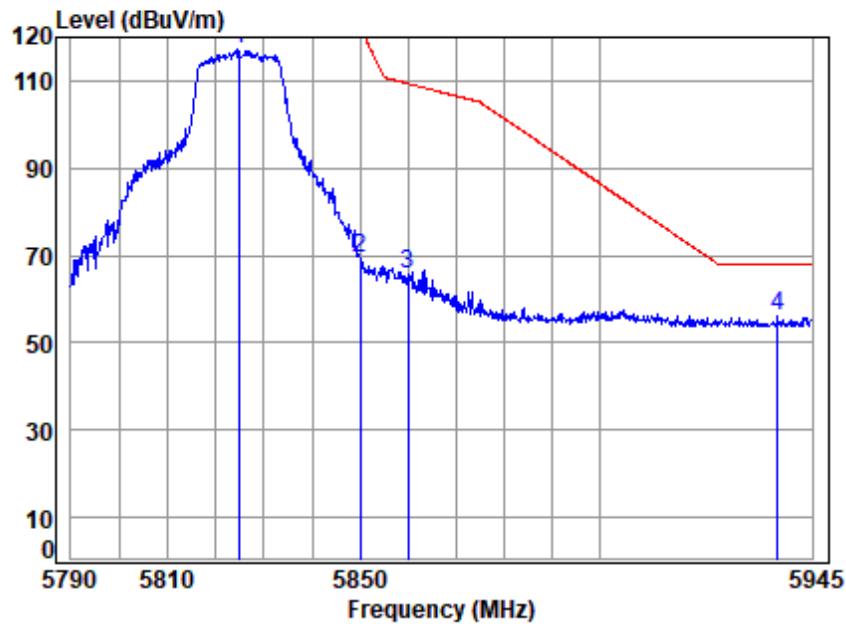
		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	8.05	34.35	34.98	103.76	111.18	-----	-----	peak
2	5850.000	8.07	34.40	34.97	55.90	63.40	122.20	-58.80	peak
3	5860.000	8.07	34.44	34.96	53.92	61.47	109.40	-47.93	peak
4 p	5930.725	8.12	34.66	34.93	47.41	55.26	68.20	-12.94	peak



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



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5825 Band edge
: 5G WIFI 11AC20

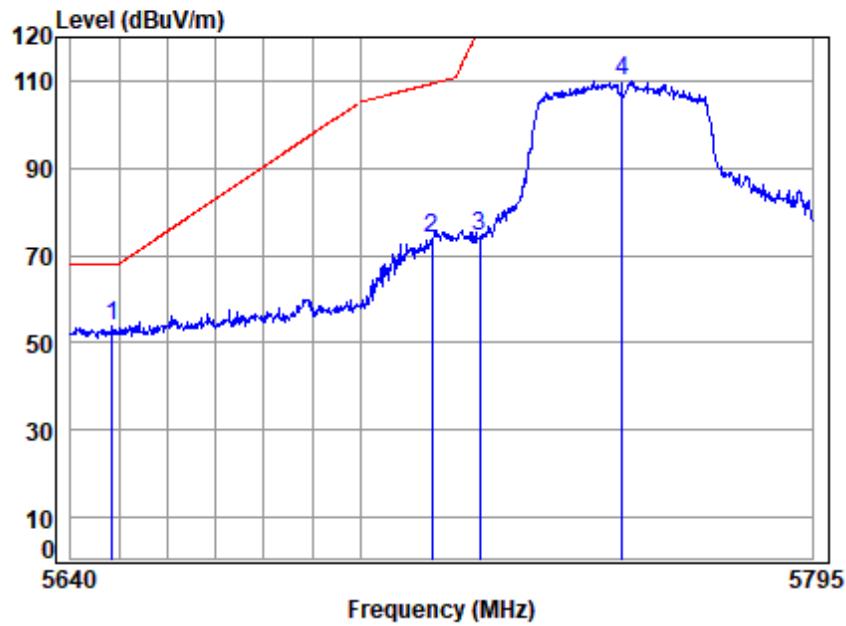
		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	8.05	34.35	34.98	109.78	117.20	-----	-----	peak
2	5850.000	8.07	34.40	34.97	62.05	69.55	122.20	-52.65	peak
3	5860.000	8.07	34.44	34.96	58.19	65.74	109.40	-43.66	peak
4 p	5937.623	8.13	34.68	34.93	48.17	56.05	68.20	-12.15	peak



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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5755 Band edge
: 5G WIFI 11AC40

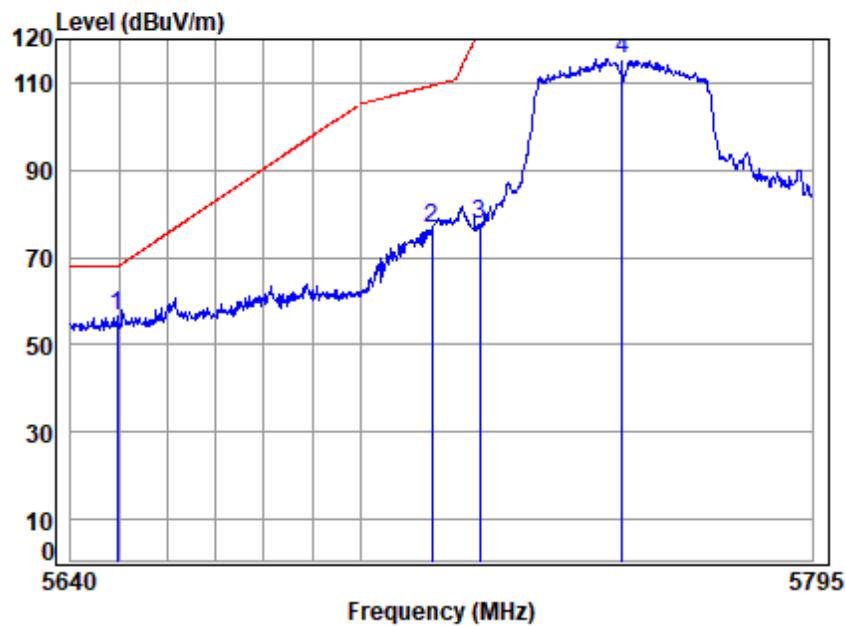
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 p 5648.569	7.93	34.41	35.06	46.44	53.72	68.20	-14.48 peak
2 5715.000	7.97	34.27	35.03	66.91	74.12	109.40	-35.28 peak
3 5725.000	7.98	34.25	35.03	67.09	74.29	122.20	-47.91 peak
4 5755.000	8.00	34.21	35.01	102.79	109.99	-----	----- peak

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



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5755 Band edge
: 5G WIFI 11AC40

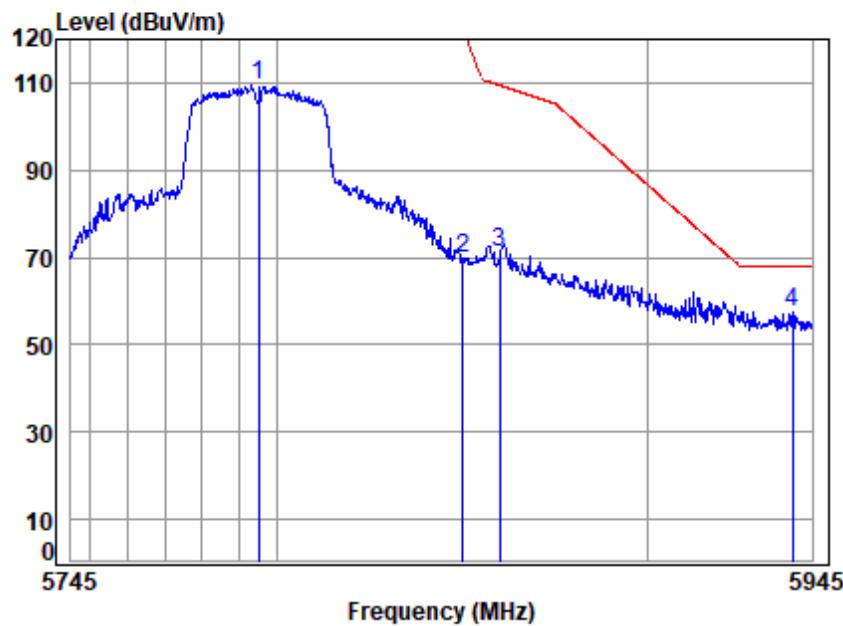
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m
1 p 5649.488	7.93	34.40	35.06	49.32	56.59	68.20	-11.61 peak
2 5715.000	7.97	34.27	35.03	69.52	76.73	109.40	-32.67 peak
3 5725.000	7.98	34.25	35.03	70.43	77.63	122.20	-44.57 peak
4 5755.000	8.00	34.21	35.01	108.27	115.47	-----	----- peak

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Shenzhen Branch (CN) SGS Laboratory

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5795 Band edge
: 5G WIFI 11AC40

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.000	8.03	34.29	34.99	102.13	109.46	-----	-----	peak
2	5850.000	8.07	34.40	34.97	62.22	69.72	122.20	-52.48	peak
3	5860.000	8.07	34.44	34.96	63.50	71.05	109.40	-38.35	peak
4 p	5939.713	8.13	34.68	34.93	49.71	57.59	68.20	-10.61	peak

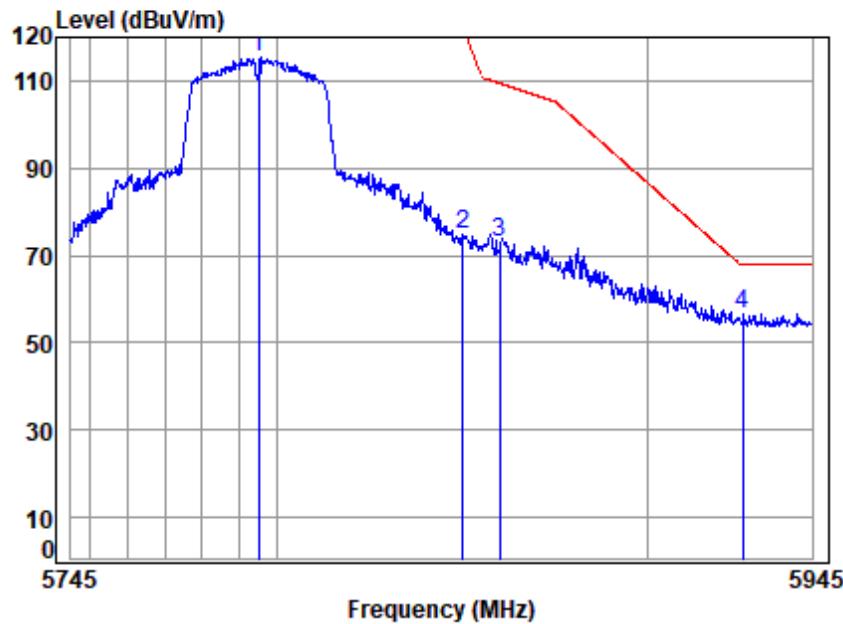
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch No. 10, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057

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

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



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5795 Band edge
: 5G WIFI 11AC40

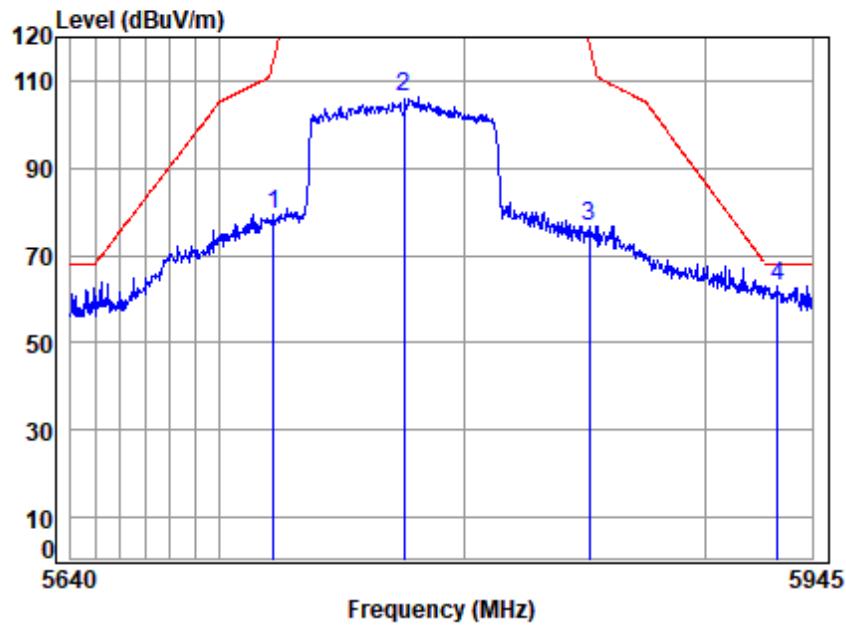
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 5795.000	8.03	34.29	34.99	107.89	115.22	-----	-----	peak
2 5850.000	8.07	34.40	34.97	67.10	74.60	122.20	-47.60	peak
3 5860.000	8.07	34.44	34.96	65.33	72.88	109.40	-36.52	peak
4 p 5926.110	8.12	34.65	34.93	48.68	56.52	68.20	-11.68	peak

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5775 Band edge
: 5G WIFI 11AC80

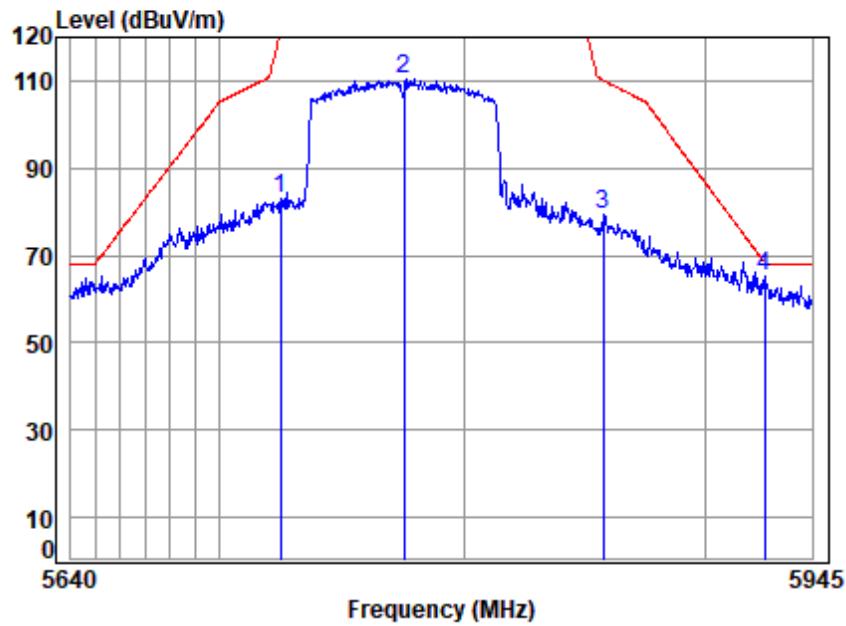
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
MHz									
1	5721.677	7.98	34.26	35.03	72.19	79.40	114.62	-35.22	peak
2	5775.000	8.01	34.25	35.00	98.88	106.14	-----	-----	peak
3	5851.500	8.07	34.41	34.97	69.18	76.69	118.78	-42.09	peak
4 p	5930.302	8.12	34.66	34.93	55.15	63.00	68.20	-5.20	peak

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



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5775 Band edge
: 5G WIFI 11AC80

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5724.691	7.98	34.25	35.03	75.88	83.08	121.50	-38.42	peak
2	5775.000	8.01	34.25	35.00	103.25	110.51	-----	-----	peak
3	5857.666	8.07	34.43	34.96	71.64	79.18	110.05	-30.87	peak
4 p	5924.995	8.12	34.65	34.93	57.33	65.17	68.20	-3.03	peak

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7.9 Radiated Emissions (Below 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 45.8 % RH

Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report.
Pre-scan	03	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.
Pre-scan	04	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.

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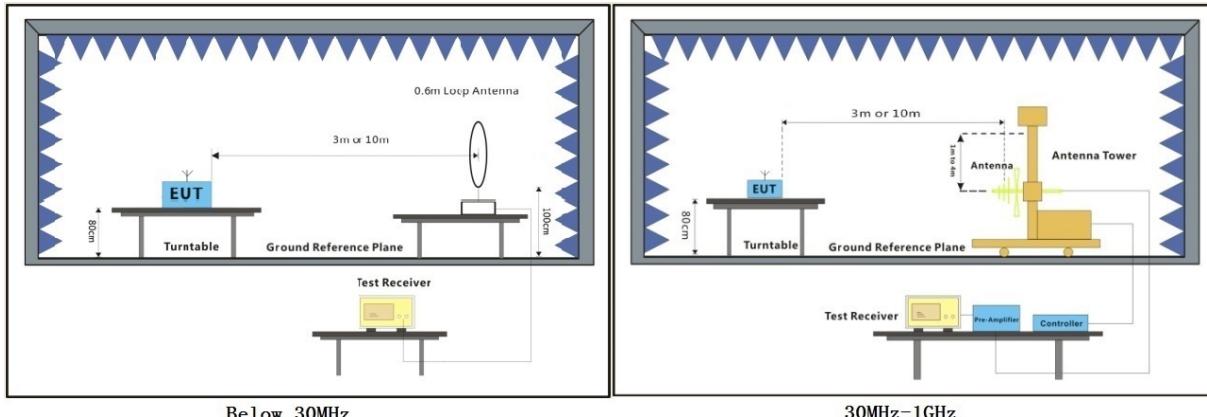
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		IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report.
Pre-scan	05	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



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7.9.4 Measurement Procedure and Data

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

Remark:

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

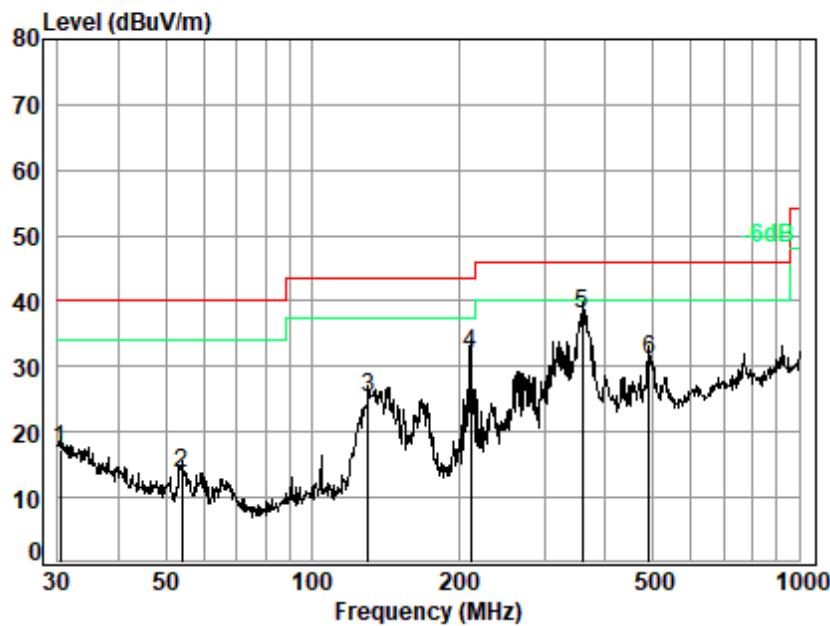
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Shenzhen Branch (SGS-CSTC) Laboratory

Test Mode: 02; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 01162TL

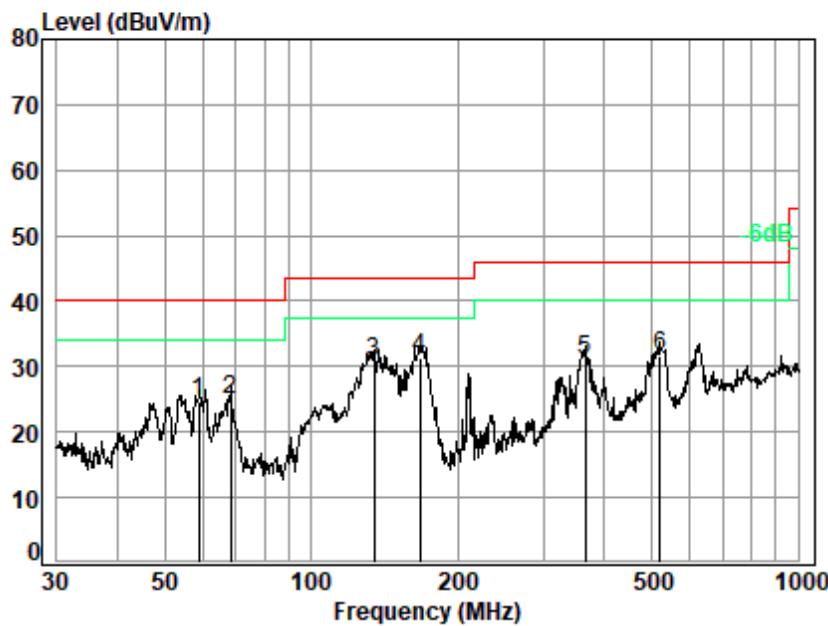
Test Mode: 02

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Line	Over Limit	Remark
					dB	dBuV	dBuV/m	dBuV/m	dB
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB	
1	30.32	21.05	0.64	27.80	23.59	17.48	40.00	-22.52	QP
2	54.07	12.12	0.87	27.74	28.34	13.59	40.00	-26.41	QP
3	130.38	11.03	1.35	27.50	40.29	25.17	43.50	-18.33	QP
4	211.53	14.79	1.78	27.21	42.62	31.98	43.50	-11.52	QP
5 q	359.19	20.20	2.39	27.15	42.53	37.97	46.00	-8.03	QP
6	492.47	22.83	2.86	27.75	33.19	31.13	46.00	-14.87	QP

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Test Mode: 02; Polarity: Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : 01162TL
 Test Mode: 02

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	58.82	11.61	0.91	27.72	39.76	24.56	40.00	-15.44 QP
2	68.39	10.70	0.98	27.70	41.04	25.02	40.00	-14.98 QP
3	134.56	11.35	1.38	27.49	45.40	30.64	43.50	-12.86 QP
4 q	167.24	13.15	1.55	27.37	43.92	31.25	43.50	-12.25 QP
5	365.54	20.31	2.42	27.18	35.52	31.07	46.00	-14.93 QP
6	520.89	23.31	2.96	27.88	33.30	31.69	46.00	-14.31 QP

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7.10 Radiated Emissions (Above 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

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

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

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

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

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

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

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 19.8 °C Humidity: 53.1 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report.

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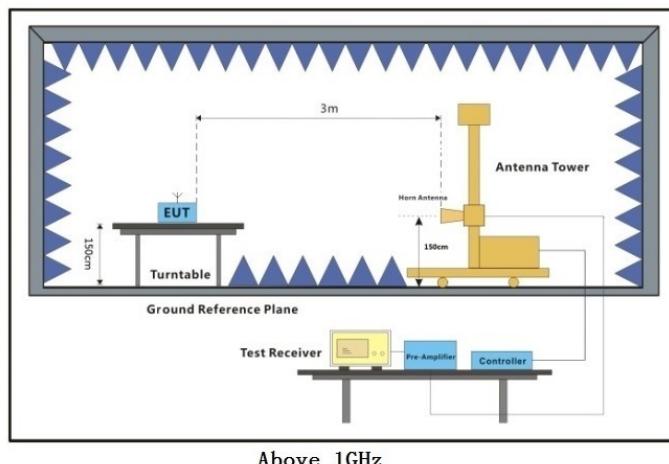
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SGS-CSTC) Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn

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

Final test	03	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.
Final test	04	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report.
Final test	05	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



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7.10.4 Measurement Procedure and Data

- 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.
6. All modes and channels have been tested, only record the worst test result.

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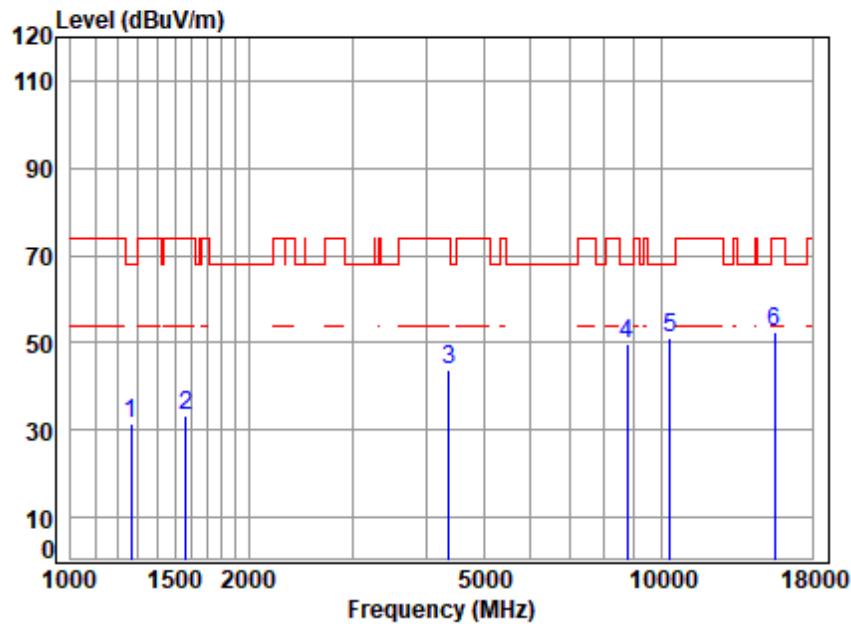
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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SGS-CSTC Laboratory)



Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5180 TX RSE
Note : 5G WIFI 11A

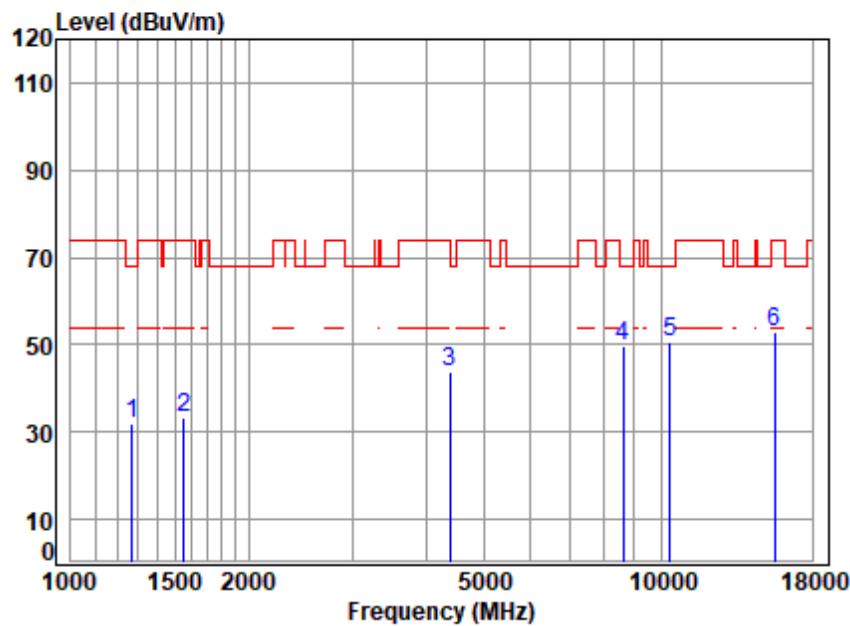
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1267.454	3.70	25.00	38.35	41.15	31.50	68.20	-36.70 peak
2	1565.191	4.15	26.94	38.40	40.48	33.17	74.00	-40.83 peak
3	4367.058	7.04	34.54	35.82	37.83	43.59	74.00	-30.41 peak
4	8764.146	11.51	36.96	37.37	38.60	49.70	68.20	-18.50 peak
5	p10360.000	12.73	37.10	37.54	38.78	51.07	68.20	-17.13 peak
6	15540.000	14.23	41.10	37.23	34.54	52.64	74.00	-21.36 peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01162TL
 Mode : 5180 TX RSE
 Note : 5G WIFI 11A

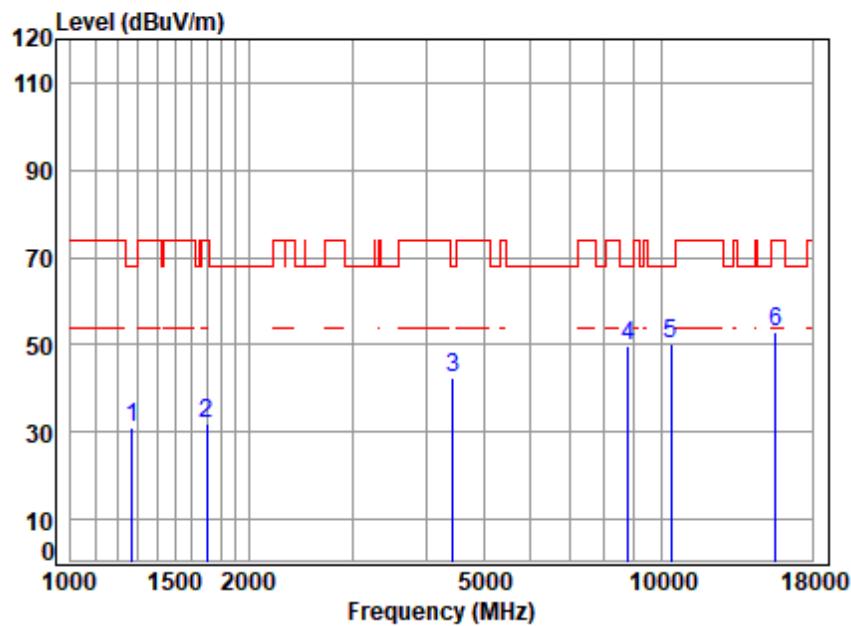
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1271.123	3.71	24.97	38.35	41.53	31.86	68.20	-36.34 peak
2	1556.169	4.14	26.98	38.40	40.45	33.17	74.00	-40.83 peak
3	4379.699	7.04	34.64	35.81	37.90	43.77	74.00	-30.23 peak
4	8613.468	11.24	36.90	37.22	39.03	49.95	68.20	-18.25 peak
5	p10360.000	12.73	37.10	37.54	38.21	50.50	68.20	-17.70 peak
6	15540.000	14.23	41.10	37.23	35.01	53.11	74.00	-20.89 peak

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



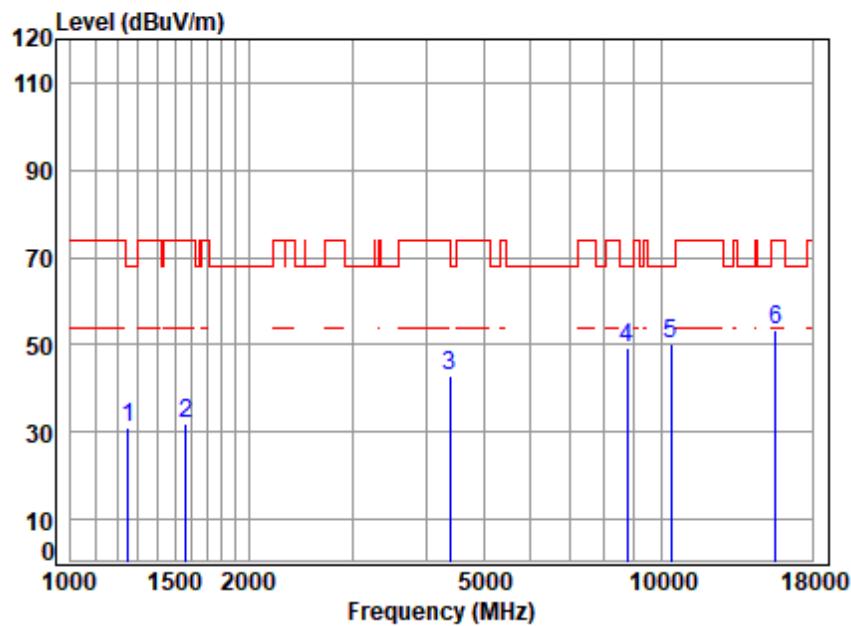
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01162TL
 Mode : 5200 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		MHz	Loss	Factor	Factor	Level	Level	
1	1271.123	3.71	24.97	38.35	40.77	31.10	68.20	-37.10 peak
2	1702.042	4.33	26.22	38.42	39.93	32.06	74.00	-41.94 peak
3	4430.628	7.08	34.43	35.77	36.85	42.59	68.20	-25.61 peak
4	8789.516	11.55	37.06	37.40	38.36	49.57	68.20	-18.63 peak
5	p10400.000	12.74	37.10	37.56	37.82	50.10	68.20	-18.10 peak
6	15600.000	14.25	41.10	37.26	34.85	52.94	74.00	-21.06 peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



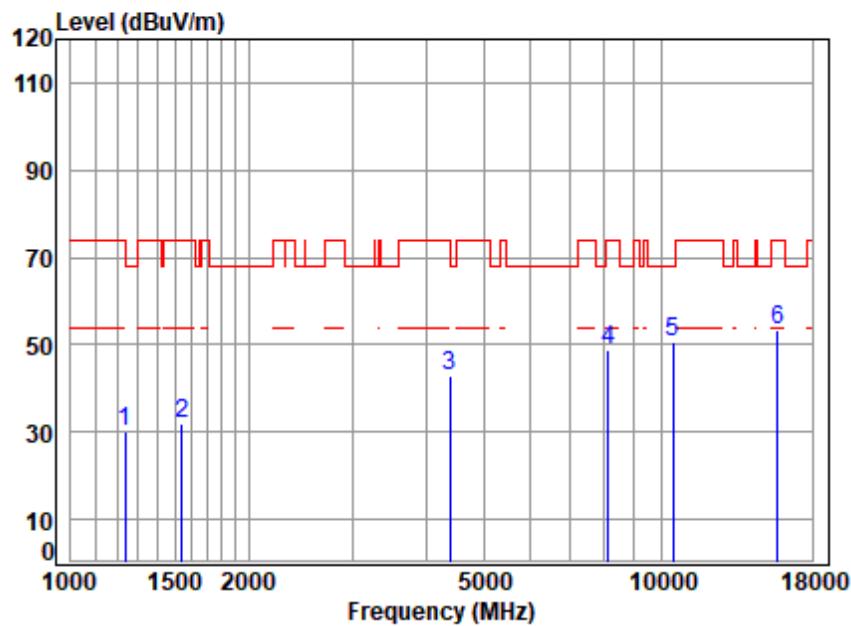
Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5200 TX RSE
Note : 5G WIFI 11A

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 1252.885	3.67	25.08	38.35	40.73	31.13	68.20	-37.07 peak
2 1565.191	4.15	26.94	38.40	39.39	32.08	74.00	-41.92 peak
3 4379.699	7.04	34.64	35.81	37.18	43.05	74.00	-30.95 peak
4 8764.146	11.51	36.96	37.37	38.28	49.38	68.20	-18.82 peak
5 p10400.000	12.74	37.10	37.56	38.04	50.32	68.20	-17.88 peak
6 15600.000	14.25	41.10	37.26	35.19	53.28	74.00	-20.72 peak

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



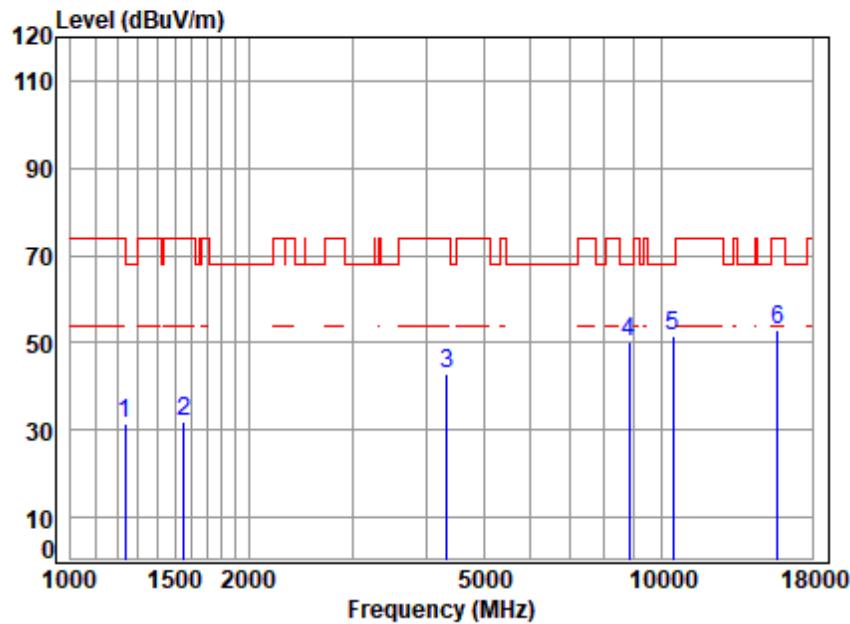
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01162TL
 Mode : 5240 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1238.483	3.65	24.94	38.35	39.88	30.12	74.00	-43.88 peak
2	1542.733	4.12	26.97	38.39	39.26	31.96	74.00	-42.04 peak
3	4392.376	7.05	34.74	35.80	37.05	43.04	74.00	-30.96 peak
4	8129.664	10.35	36.50	36.70	38.88	49.03	74.00	-24.97 peak
5	p10480.000	12.76	37.26	37.60	38.20	50.62	68.20	-17.58 peak
6	15720.000	14.29	41.22	37.31	35.27	53.47	74.00	-20.53 peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



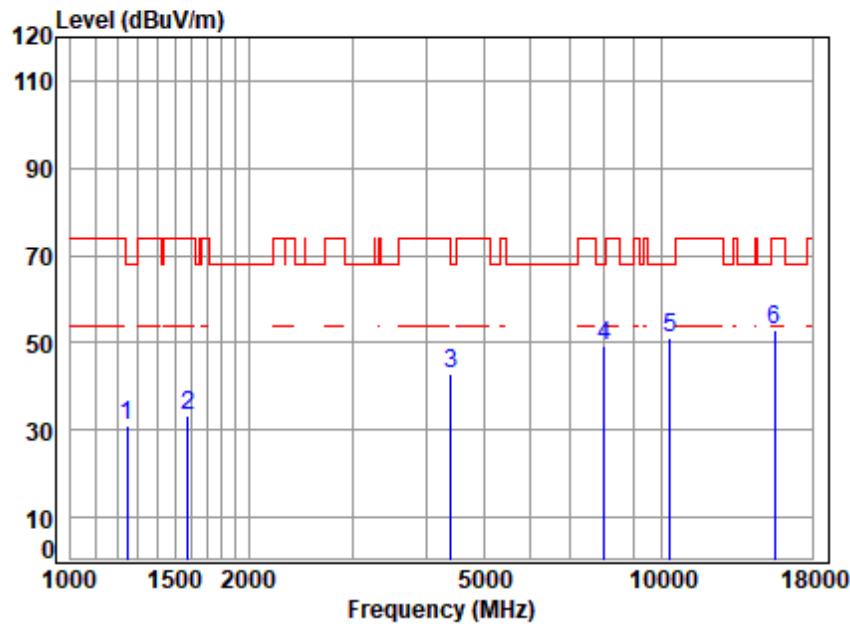
Site : chamber
 Condition: 3m VERTICAL
 Job No : 01162TL
 Mode : 5240 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1234.909	3.64	24.89	38.35	41.44	31.62	74.00	-42.38 peak
2	1551.677	4.13	26.99	38.40	39.16	31.88	74.00	-42.12 peak
3	4329.354	7.01	34.23	35.85	37.55	42.94	74.00	-31.06 peak
4	8814.957	11.60	37.13	37.42	39.08	50.39	68.20	-17.81 peak
5	p10480.000	12.76	37.26	37.60	39.32	51.74	68.20	-16.46 peak
6	15720.000	14.29	41.22	37.31	34.76	52.96	74.00	-21.04 peak

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5180 TX RSE
Note : 5G WIFI 11AC20

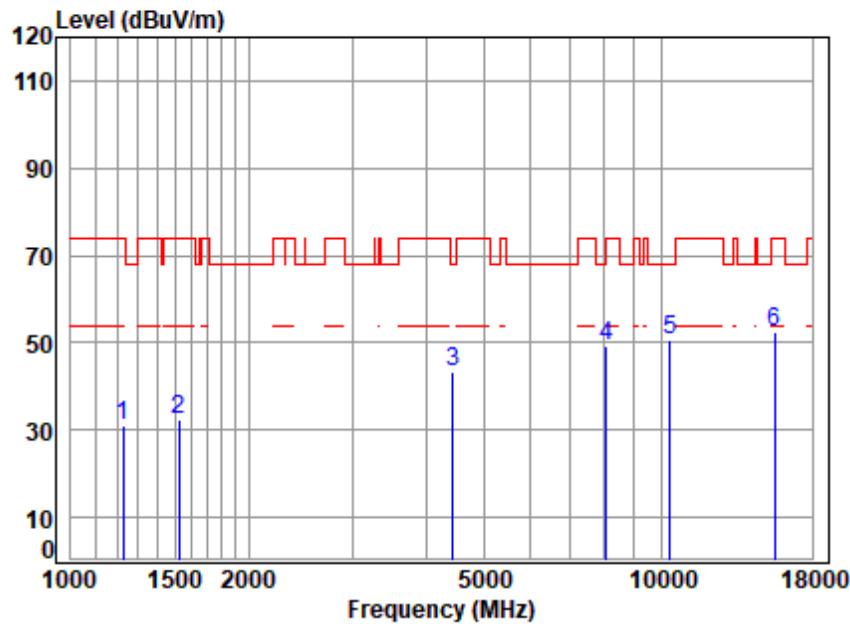
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1245.663	3.66	25.04	38.35	40.79	31.14	68.20	-37.06 peak
2 1578.822	4.17	26.88	38.40	40.72	33.37	74.00	-40.63 peak
3 4405.090	7.06	34.74	35.79	36.87	42.88	68.20	-25.32 peak
4 8013.020	10.13	36.40	36.57	39.36	49.32	68.20	-18.88 peak
5 p10360.000	12.73	37.10	37.54	38.59	50.88	68.20	-17.32 peak
6 15540.000	14.23	41.10	37.23	34.94	53.04	74.00	-20.96 peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5180 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1227.791	3.63	24.79	38.34	40.89	30.97	74.00	-43.03 peak
2	1525.000	4.10	26.90	38.39	39.77	32.38	74.00	-41.62 peak
3	4443.453	7.09	34.28	35.77	37.75	43.35	68.20	-24.85 peak
4	8082.804	10.26	36.47	36.65	39.41	49.49	74.00	-24.51 peak
5	p10360.000	12.73	37.10	37.54	38.22	50.51	68.20	-17.69 peak
6	15540.000	14.23	41.10	37.23	34.54	52.64	74.00	-21.36 peak

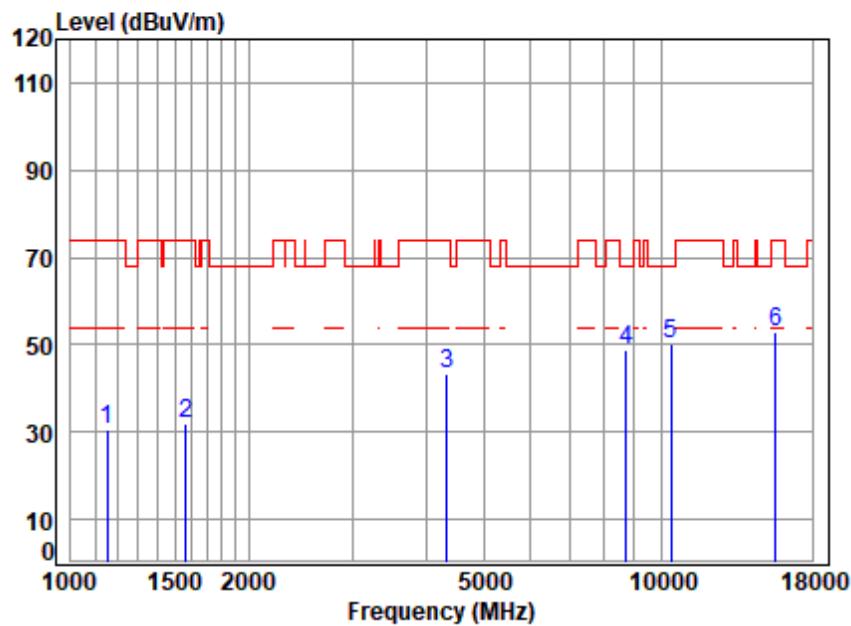
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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SGS-CSTC Laboratory)

Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5200 TX RSE
Note : 5G WIFI 11AC20

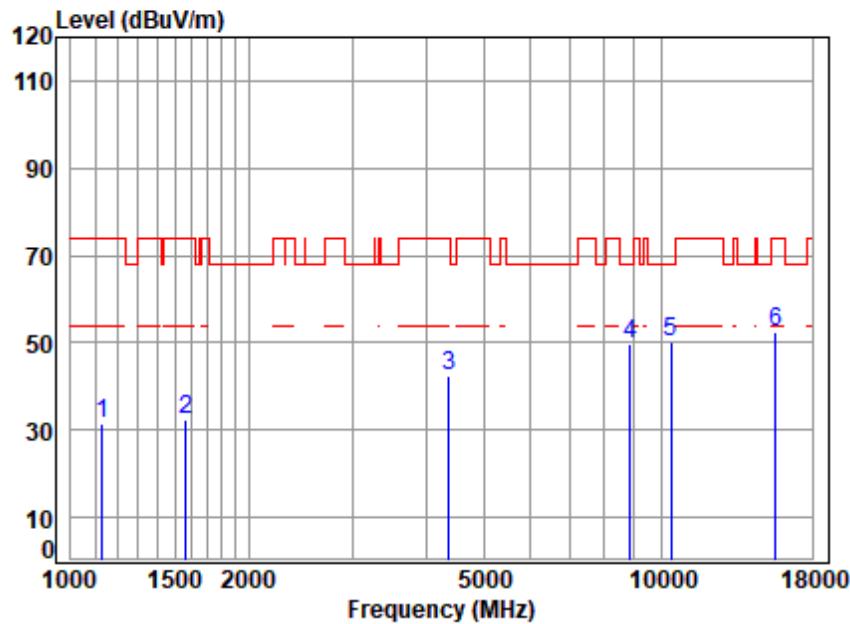
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1152.148	3.49	23.92	38.33	41.27	30.35	74.00	-43.65 peak
2 1565.191	4.15	26.94	38.40	39.30	31.99	74.00	-42.01 peak
3 4341.886	7.02	34.34	35.84	37.79	43.31	74.00	-30.69 peak
4 8713.630	11.42	36.90	37.32	37.90	48.90	68.20	-19.30 peak
5 p10400.000	12.74	37.10	37.56	37.84	50.12	68.20	-18.08 peak
6 15600.000	14.25	41.10	37.26	34.80	52.89	74.00	-21.11 peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5200 TX RSE
Note : 5G WIFI 11AC20

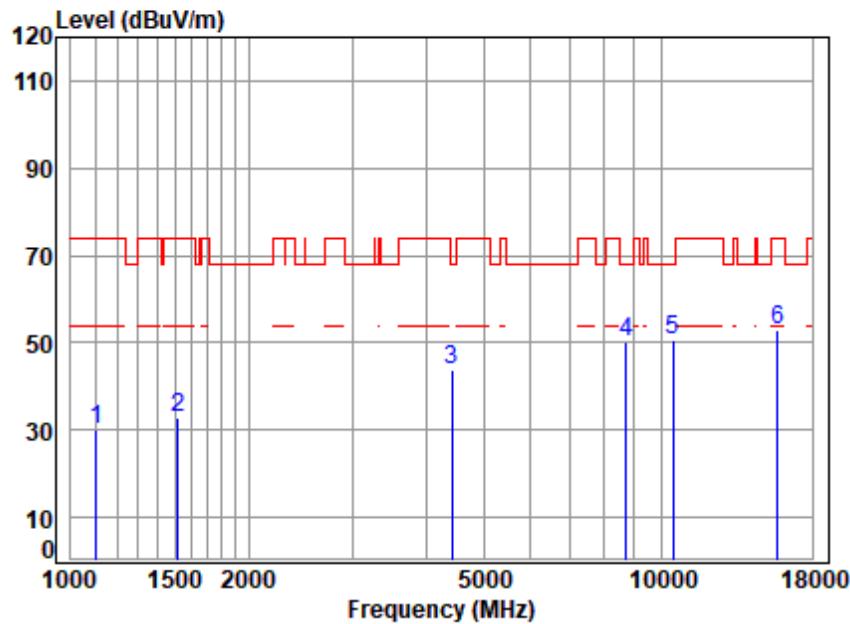
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1129.072	3.45	23.82	38.33	42.43	31.37	74.00	-42.63 peak
1569.721	4.16	26.92	38.40	39.71	32.39	74.00	-41.61 peak
4367.058	7.04	34.54	35.82	36.82	42.58	74.00	-31.42 peak
8866.062	11.69	37.20	37.48	38.48	49.89	68.20	-18.31 peak
10400.000	12.74	37.10	37.56	37.89	50.17	68.20	-18.03 peak
15600.000	14.25	41.10	37.26	34.53	52.62	74.00	-21.38 peak

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



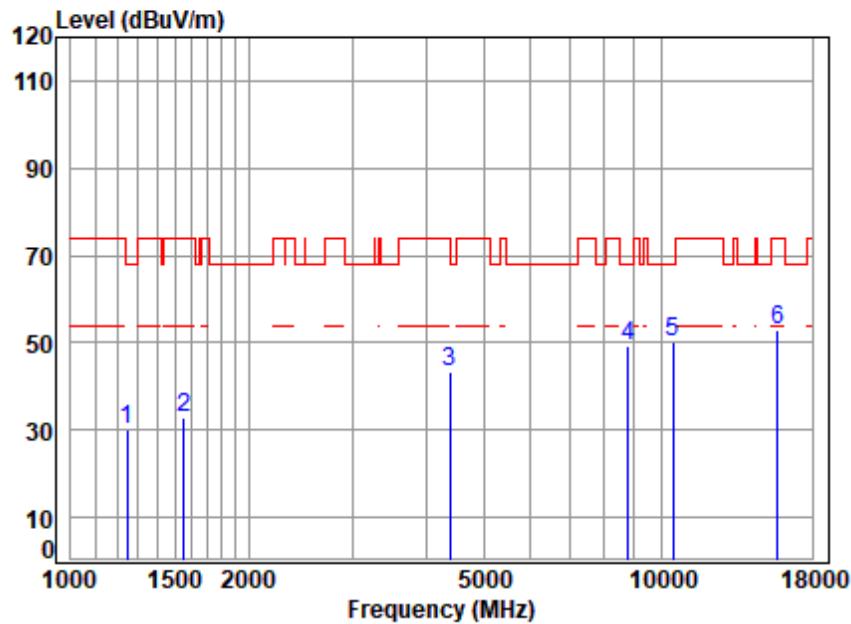
Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5240 TX RSE
Note : 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 1106.457	3.41	23.73	38.32	41.38	30.20	74.00	-43.80 peak
2 1516.210	4.08	26.86	38.39	40.36	32.91	74.00	-41.09 peak
3 4417.841	7.07	34.59	35.78	37.70	43.58	68.20	-24.62 peak
4 8713.630	11.42	36.90	37.32	39.08	50.08	68.20	-18.12 peak
5 p10480.000	12.76	37.26	37.60	38.17	50.59	68.20	-17.61 peak
6 15720.000	14.29	41.22	37.31	34.65	52.85	74.00	-21.15 peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01162TL
 Mode : 5240 TX RSE
 Note : 5G WIFI 11AC20

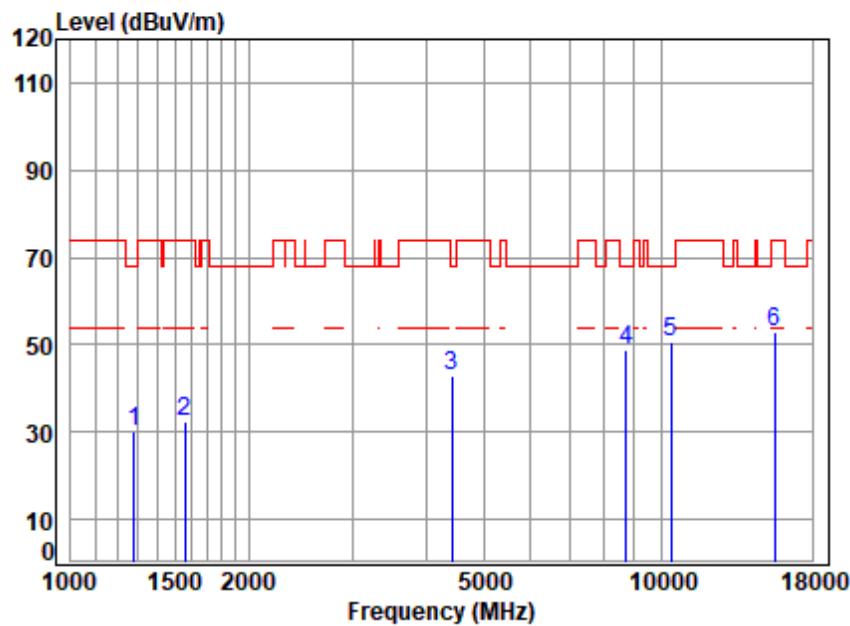
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1245.663	3.66	25.04	38.35	39.85	30.20	68.20	-38.00 peak
2	1556.169	4.14	26.98	38.40	40.32	33.04	74.00	-40.96 peak
3	4379.699	7.04	34.64	35.81	37.64	43.51	74.00	-30.49 peak
4	8789.516	11.55	37.06	37.40	37.99	49.20	68.20	-19.00 peak
5	p10480.000	12.76	37.26	37.60	37.97	50.39	68.20	-17.81 peak
6	15720.000	14.29	41.22	37.31	34.54	52.74	74.00	-21.26 peak

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5190 TX RSE
Note : 5G WIFI 11AC40

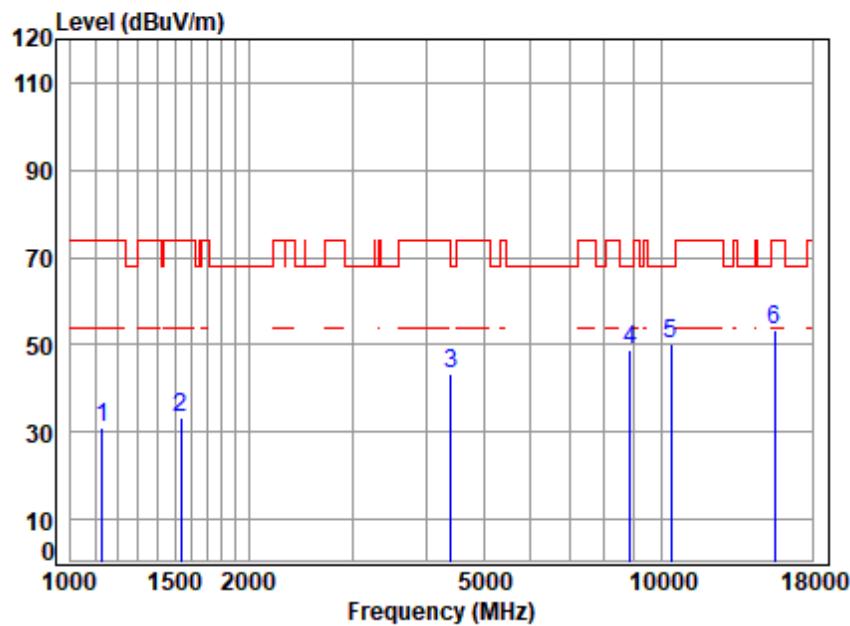
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1282.193	3.72	24.91	38.35	40.00	30.28	68.20	-37.92 peak
2 1560.673	4.15	26.96	38.40	39.58	32.29	74.00	-41.71 peak
3 4417.841	7.07	34.59	35.78	36.97	42.85	68.20	-25.35 peak
4 8713.630	11.42	36.90	37.32	37.95	48.95	68.20	-19.25 peak
5 p10380.000	12.74	37.10	37.55	38.25	50.54	68.20	-17.66 peak
6 15570.000	14.24	41.10	37.25	35.04	53.13	74.00	-20.87 peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



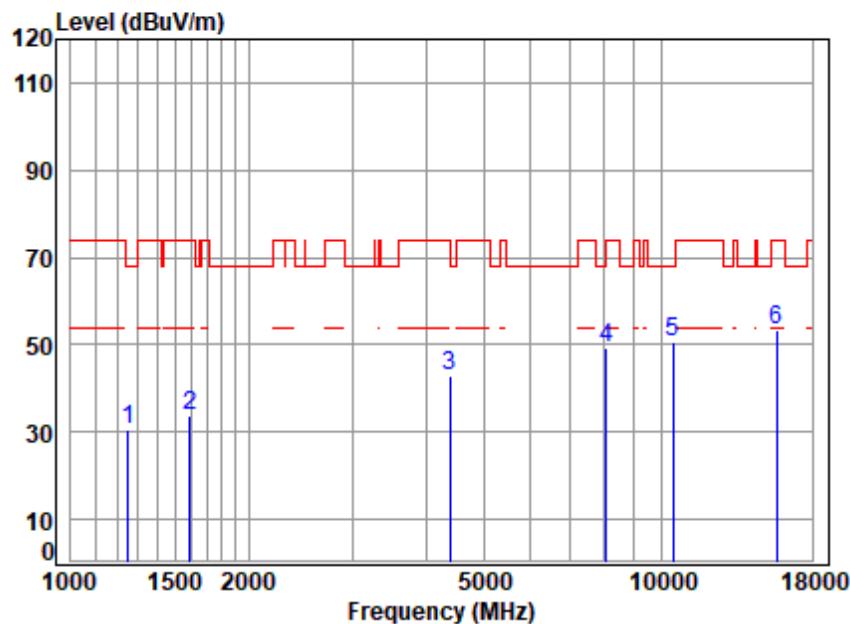
Site : chamber
 Condition: 3m VERTICAL
 Job No : 01162TL
 Mode : 5190 TX RSE
 Note : 5G WIFI 11AC40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1132.340	3.46	23.83	38.33	41.90	30.86	74.00	-43.14 peak
2	1533.841	4.11	26.94	38.39	40.51	33.17	74.00	-40.83 peak
3	4405.090	7.06	34.74	35.79	37.24	43.25	68.20	-24.95 peak
4	8840.473	11.64	37.18	37.45	37.65	49.02	68.20	-19.18 peak
5	p10380.000	12.74	37.10	37.55	38.10	50.39	68.20	-17.81 peak
6	15570.000	14.24	41.10	37.25	35.14	53.23	74.00	-20.77 peak

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



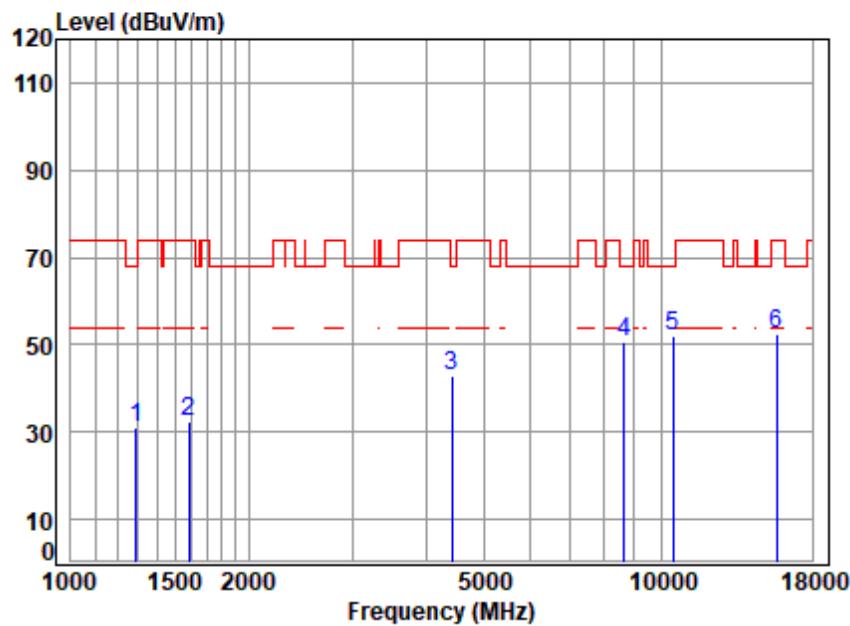
Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5230 TX RSE
Note : 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
							dB	Remark
1 1249.269	3.67	25.09	38.35	40.10	30.51	68.20	-37.69	peak
2 1592.571	4.19	26.83	38.40	41.11	33.73	74.00	-40.27	peak
3 4379.699	7.04	34.64	35.81	36.83	42.70	74.00	-31.30	peak
4 8082.804	10.26	36.47	36.65	39.25	49.33	74.00	-24.67	peak
5 p10460.000	12.76	37.22	37.59	38.29	50.68	68.20	-17.52	peak
6 15690.000	14.28	41.19	37.30	35.41	53.58	74.00	-20.42	peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5230 TX RSE
Note : 5G WIFI 11AC40

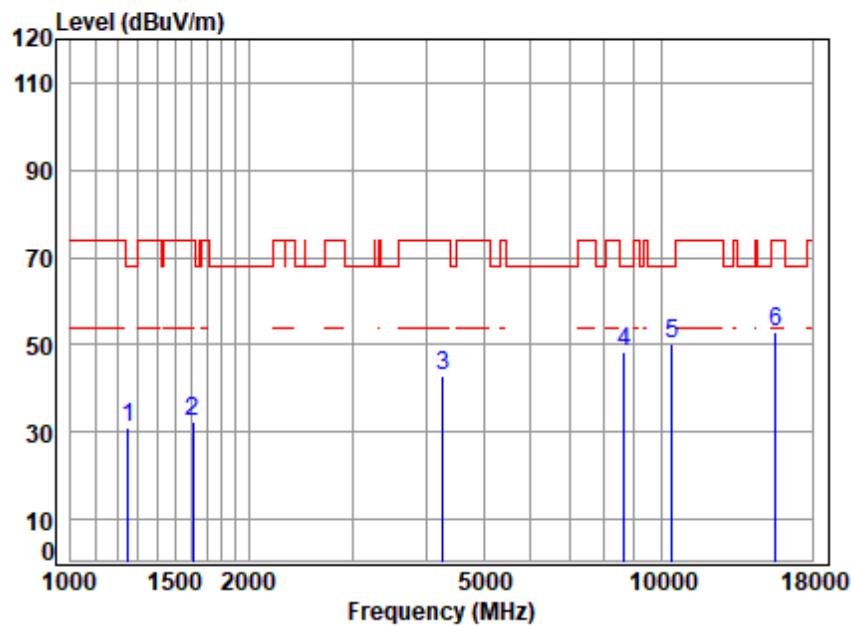
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1289.627	3.74	24.86	38.36	40.80	31.04	68.20	-37.16 peak
2 1583.392	4.18	26.87	38.40	39.53	32.18	74.00	-41.82 peak
3 4417.841	7.07	34.59	35.78	37.18	43.06	68.20	-25.14 peak
4 8638.399	11.29	36.90	37.24	39.53	50.48	68.20	-17.72 peak
5 p10460.000	12.76	37.22	37.59	39.52	51.91	68.20	-16.29 peak
6 15690.000	14.28	41.19	37.30	34.35	52.52	74.00	-21.48 peak

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



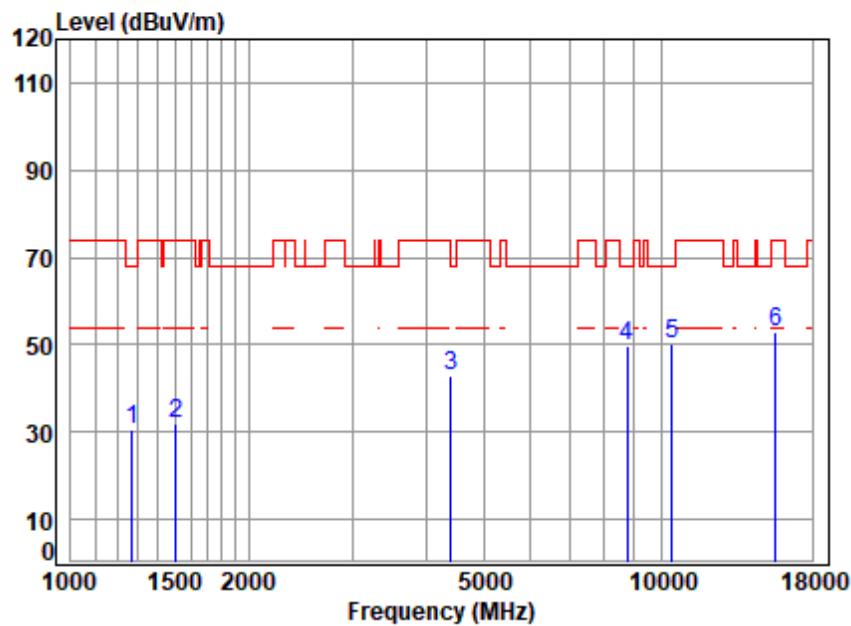
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01162TL
 Mode : 5210 TX RSE
 Note : 5G WIFI 11AC80

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1252.885	3.67	25.08	38.35	40.49	30.89	68.20	-37.31 peak
2	1611.091	4.22	26.69	38.40	39.83	32.34	74.00	-41.66 peak
3	4267.237	6.97	33.87	35.89	38.13	43.08	74.00	-30.92 peak
4	8663.404	11.33	36.90	37.27	37.41	48.37	68.20	-19.83 peak
5	p10420.000	12.75	37.14	37.57	38.05	50.37	68.20	-17.83 peak
6	15630.000	14.26	41.13	37.27	34.83	52.95	74.00	-21.05 peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5210 TX RSE
Note : 5G WIFI 11AC80

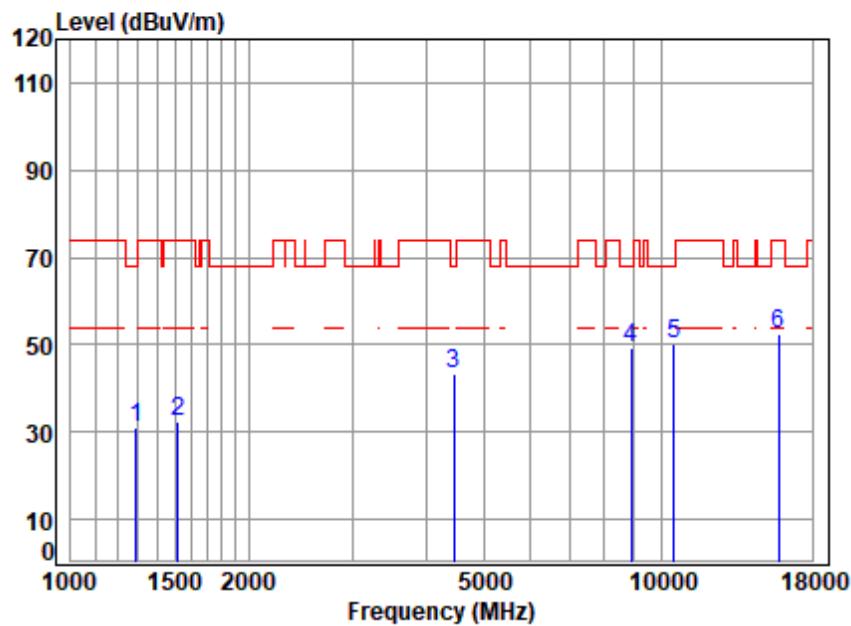
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1271.123	3.71	24.97	38.35	40.11	30.44	68.20	-37.76 peak
2	1507.470	4.07	26.83	38.39	39.55	32.06	74.00	-41.94 peak
3	4405.090	7.06	34.74	35.79	36.78	42.79	68.20	-25.41 peak
4	8764.146	11.51	36.96	37.37	38.66	49.76	68.20	-18.44 peak
5	p10420.000	12.75	37.14	37.57	38.09	50.41	68.20	-17.79 peak
6	15630.000	14.26	41.13	37.27	34.86	52.98	74.00	-21.02 peak

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5260 TX RSE
Note : 5G WIFI 11A

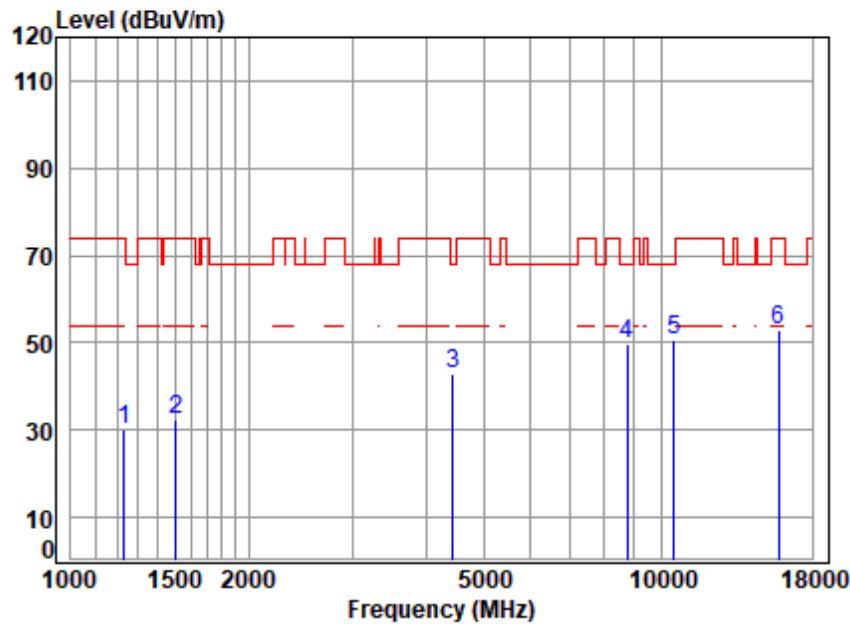
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1289.627	3.74	24.86	38.36	40.69	30.93	68.20	-37.27 peak
2	1520.598	4.09	26.88	38.39	39.98	32.56	74.00	-41.44 peak
3	4456.315	7.09	34.12	35.76	37.82	43.27	68.20	-24.93 peak
4	8891.725	11.73	37.20	37.50	37.64	49.07	68.20	-19.13 peak
5	10520.000	12.77	37.30	37.62	37.96	50.41	68.20	-17.79 peak
6	15780.000	14.31	41.28	37.33	34.06	52.32	74.00	-21.68 peak

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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



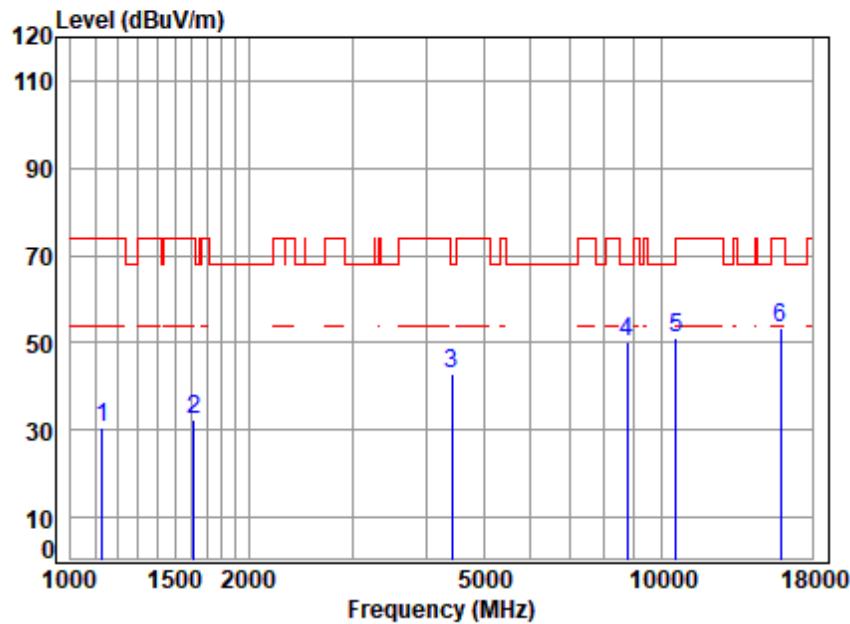
Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5260 TX RSE
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
							dB	Remark
1 1231.345	3.64	24.84	38.35	40.00	30.13	74.00	-43.87	peak
2 1507.470	4.07	26.83	38.39	39.86	32.37	74.00	-41.63	peak
3 4430.628	7.08	34.43	35.77	36.94	42.68	68.20	-25.52	peak
4 8738.852	11.47	36.90	37.35	38.83	49.85	68.20	-18.35	peak
5 p10520.000	12.77	37.30	37.62	38.25	50.70	68.20	-17.50	peak
6 15780.000	14.31	41.28	37.33	34.45	52.71	74.00	-21.29	peak

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



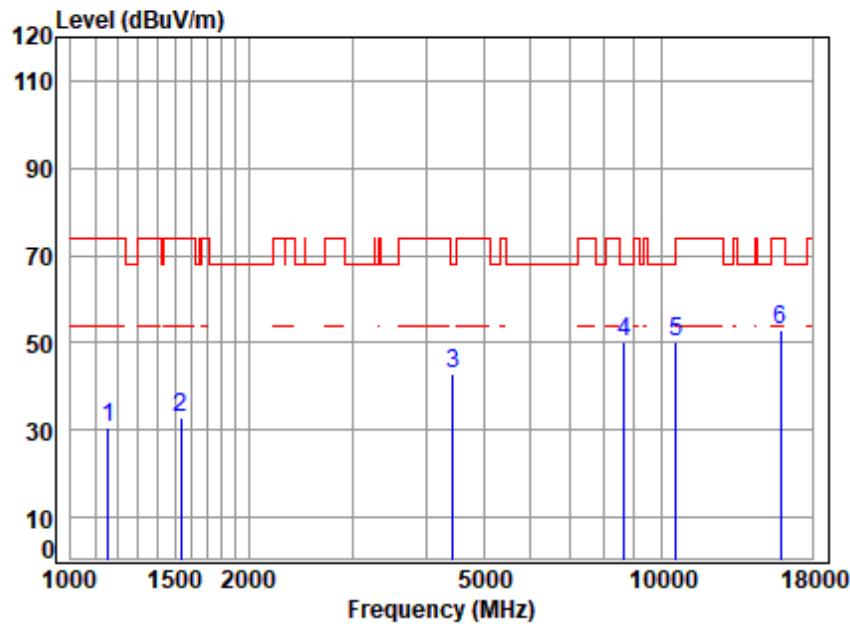
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01162TL
 Mode : 5300 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1129.072	3.45	23.82	38.33	41.55	30.49	74.00	-43.51 peak
2	1615.754	4.22	26.64	38.40	39.95	32.41	74.00	-41.59 peak
3	4417.841	7.07	34.59	35.78	37.17	43.05	68.20	-25.15 peak
4	8738.852	11.47	36.90	37.35	39.34	50.36	68.20	-17.84 peak
5	p10600.000	12.80	37.30	37.66	38.49	50.93	68.20	-17.27 peak
6	15900.000	14.35	41.40	37.38	34.88	53.25	74.00	-20.75 peak

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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



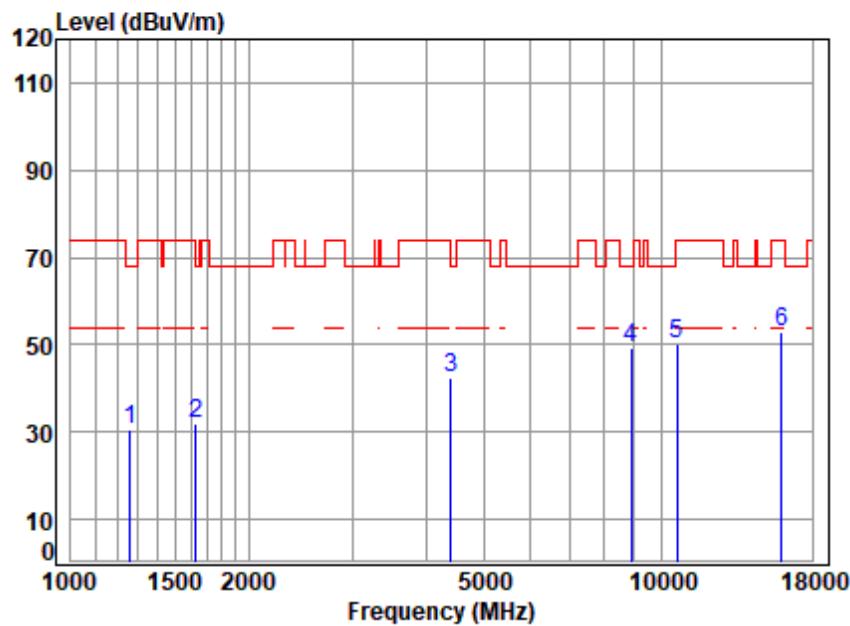
Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5300 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1158.828	3.51	23.99	38.33	41.26	30.43	74.00	-43.57 peak
2	1538.281	4.12	26.95	38.39	39.99	32.67	74.00	-41.33 peak
3	4430.628	7.08	34.43	35.77	36.98	42.72	68.20	-25.48 peak
4	8663.404	11.33	36.90	37.27	39.02	49.98	68.20	-18.22 peak
5	p10600.000	12.80	37.30	37.66	37.87	50.31	68.20	-17.89 peak
6	15900.000	14.35	41.40	37.38	34.43	52.80	74.00	-21.20 peak

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01162TL
 Mode : 5320 TX RSE
 Note : 5G WIFI 11A

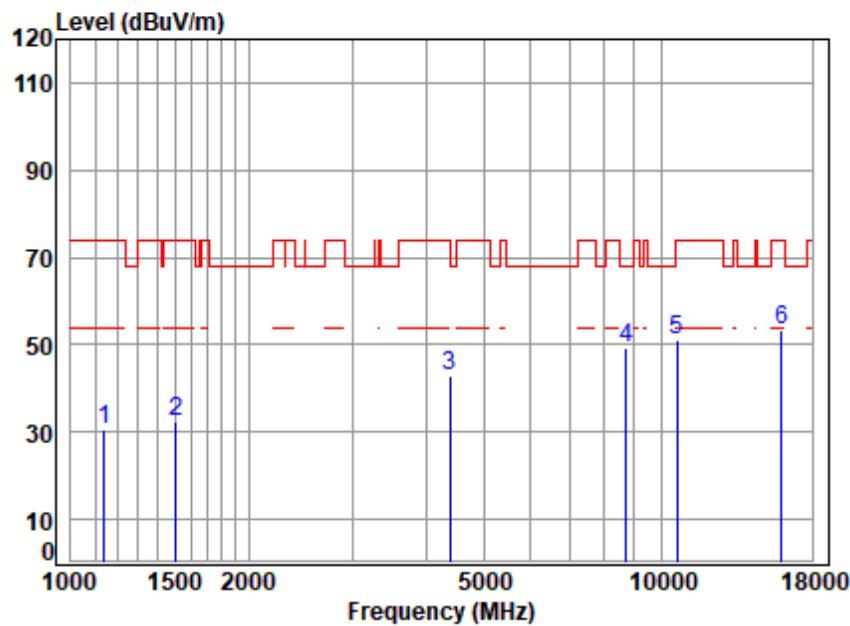
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1260.149	3.69	25.04	38.35	40.32	30.70	68.20	-37.50 peak
2	1629.825	4.24	26.50	38.41	39.81	32.14	68.20	-36.06 peak
3	4405.090	7.06	34.74	35.79	36.62	42.63	68.20	-25.57 peak
4 p	8891.725	11.73	37.20	37.50	37.73	49.16	68.20	-19.04 peak
5	10640.000	12.81	37.22	37.68	38.06	50.41	74.00	-23.59 peak
6	15960.000	14.37	41.52	37.40	34.46	52.95	74.00	-21.05 peak

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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5320 TX RSE
Note : 5G WIFI 11A

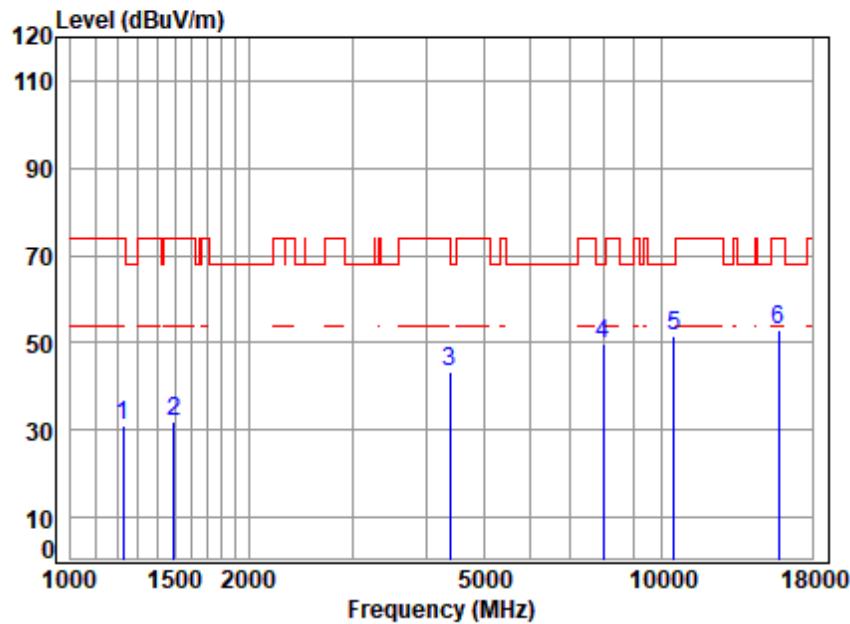
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1138.904	3.47	23.86	38.33	41.78	30.78	74.00	-43.22 peak
2 1507.470	4.07	26.83	38.39	39.99	32.50	74.00	-41.50 peak
3 4392.376	7.05	34.74	35.80	37.07	43.06	74.00	-30.94 peak
4 p 8713.630	11.42	36.90	37.32	38.42	49.42	68.20	-18.78 peak
5 10640.000	12.81	37.22	37.68	38.60	50.95	74.00	-23.05 peak
6 15960.000	14.37	41.52	37.40	34.68	53.17	74.00	-20.83 peak

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5260 TX RSE
Note : 5G WIFI 11AC20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	MHz	Loss	Factor	Factor	Level	Level	Line	Limit
1	1227.791	3.63	24.79	38.34	40.80	30.88	74.00	-43.12 peak
2	1494.455	4.05	26.64	38.39	39.57	31.87	74.00	-42.13 peak
3	4392.376	7.05	34.74	35.80	37.38	43.37	74.00	-30.63 peak
4	7966.832	10.06	36.40	36.53	39.97	49.90	68.20	-18.30 peak
5	p10520.000	12.77	37.30	37.62	39.12	51.57	68.20	-16.63 peak
6	15780.000	14.31	41.28	37.33	34.89	53.15	74.00	-20.85 peak

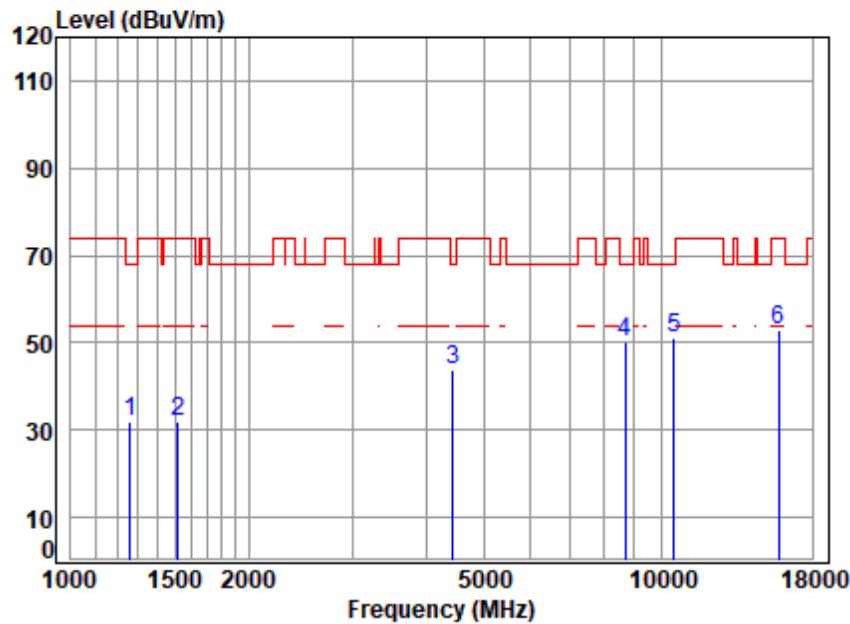
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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5260 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1260.149	3.69	25.04	38.35	41.49	31.87	68.20	-36.33 peak
2	1520.598	4.09	26.88	38.39	39.40	31.98	74.00	-42.02 peak
3	4443.453	7.09	34.28	35.77	38.02	43.62	68.20	-24.58 peak
4	8688.480	11.38	36.90	37.30	39.14	50.12	68.20	-18.08 peak
5	p10520.000	12.77	37.30	37.62	38.60	51.05	68.20	-17.15 peak
6	15780.000	14.31	41.28	37.33	34.84	53.10	74.00	-20.90 peak

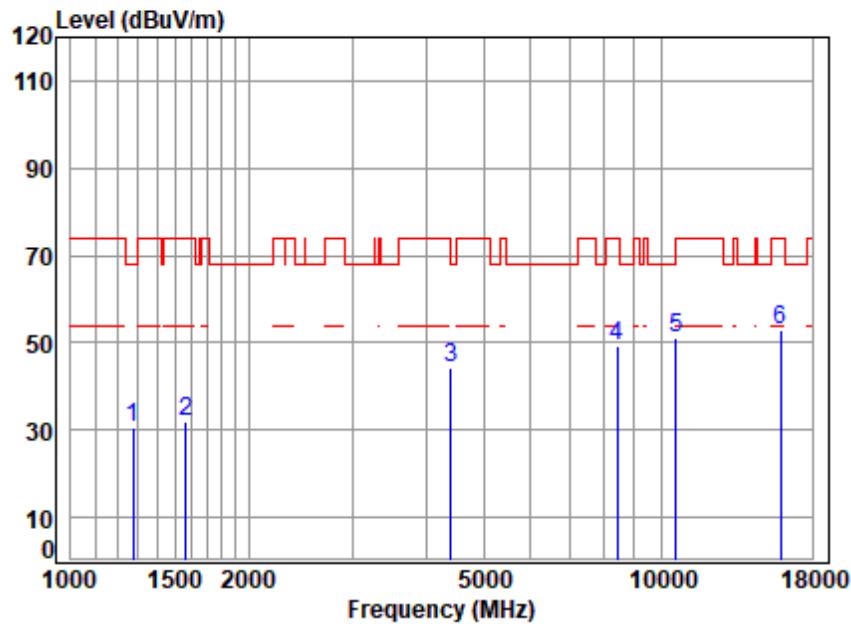
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



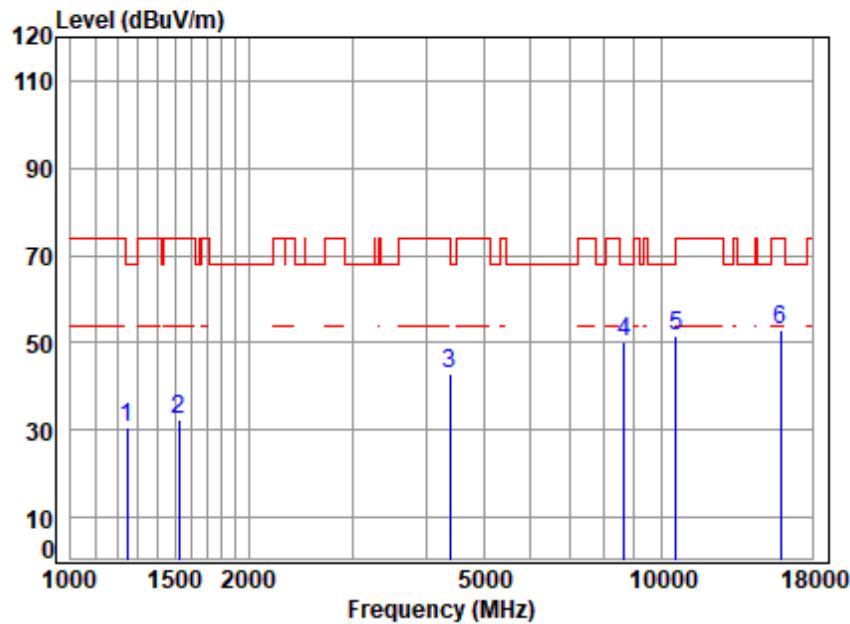
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01162TL
 Mode : 5300 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		MHz	Loss	Factor	Factor	Level	Level	
1	1274.802	3.71	24.95	38.35	40.43	30.74	68.20	-37.46 peak
2	1565.191	4.15	26.94	38.40	39.07	31.76	74.00	-42.24 peak
3	4405.090	7.06	34.74	35.79	38.22	44.23	68.20	-23.97 peak
4	8416.584	10.88	36.67	37.01	38.92	49.46	74.00	-24.54 peak
5	10600.000	12.80	37.30	37.66	38.47	50.91	68.20	-17.29 peak
6	15900.000	14.35	41.40	37.38	34.46	52.83	74.00	-21.17 peak

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5300 TX RSE
Note : 5G WIFI 11AC20

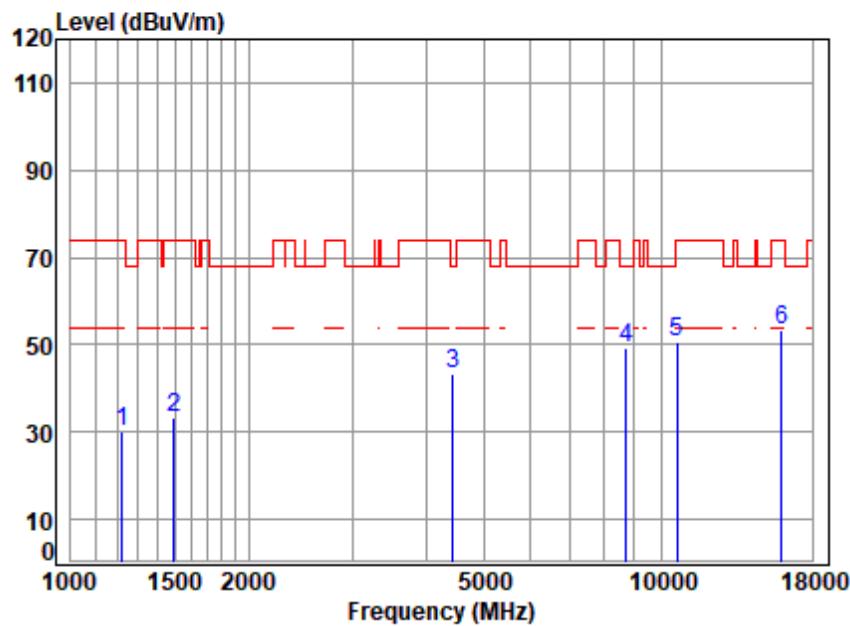
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1245.663	3.66	25.04	38.35	40.40	30.75	68.20	-37.45 peak
2 1525.000	4.10	26.90	38.39	39.64	32.25	74.00	-41.75 peak
3 4392.376	7.05	34.74	35.80	36.78	42.77	74.00	-31.23 peak
4 8638.399	11.29	36.90	37.24	39.36	50.31	68.20	-17.89 peak
5 p10600.000	12.80	37.30	37.66	38.90	51.34	68.20	-16.86 peak
6 15900.000	14.35	41.40	37.38	34.41	52.78	74.00	-21.22 peak

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



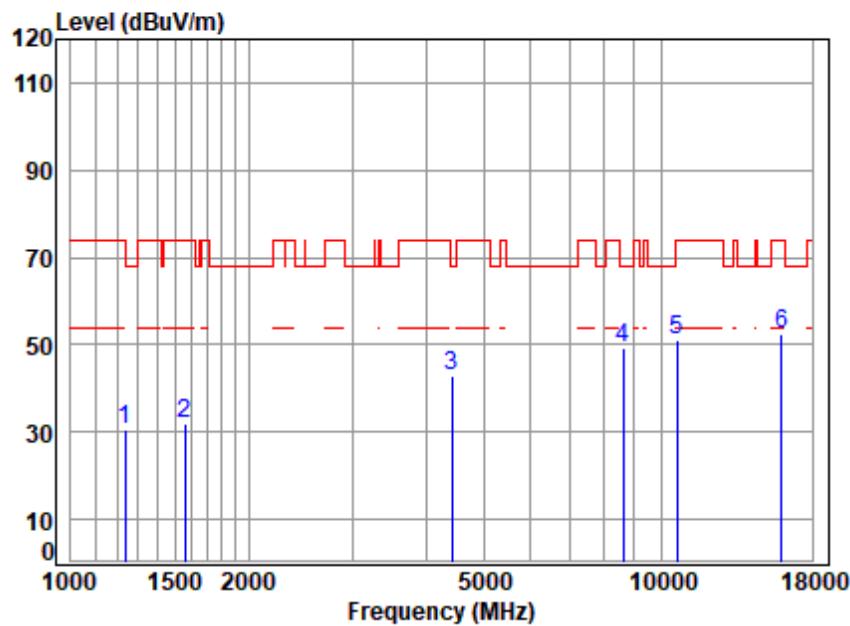
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01162TL
 Mode : 5320 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1220.714	3.62	24.69	38.34	40.03	30.00	74.00	-44.00 peak
2	1494.455	4.05	26.64	38.39	40.84	33.14	74.00	-40.86 peak
3	4430.628	7.08	34.43	35.77	37.41	43.15	68.20	-25.05 peak
4 p	8713.630	11.42	36.90	37.32	38.18	49.18	68.20	-19.02 peak
5	10640.000	12.81	37.22	37.68	38.08	50.43	74.00	-23.57 peak
6	15960.000	14.37	41.52	37.40	34.89	53.38	74.00	-20.62 peak

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



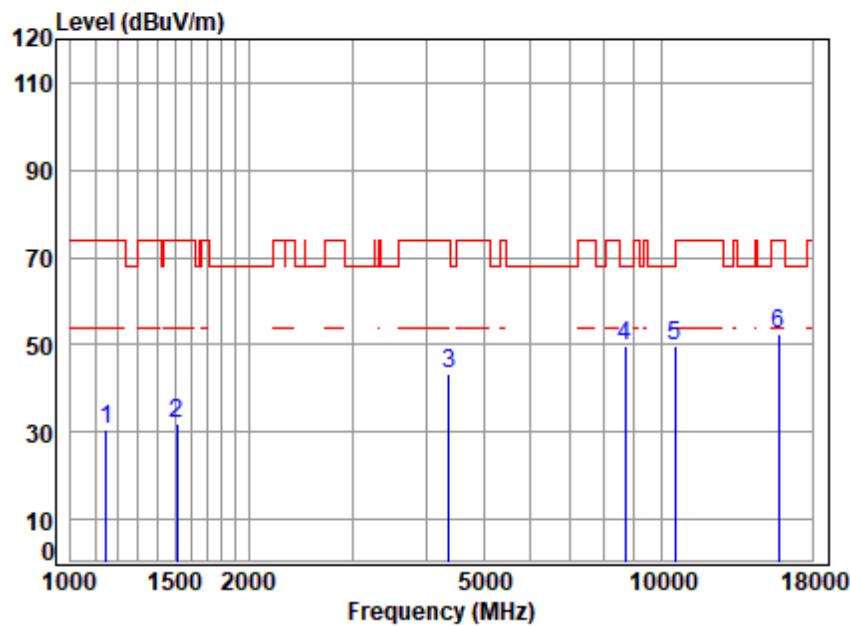
Site : chamber
 Condition: 3m VERTICAL
 Job No : 01162TL
 Mode : 5320 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1238.483	3.65	24.94	38.35	40.24	30.48	74.00	-43.52 peak
2	1560.673	4.15	26.96	38.40	39.24	31.95	74.00	-42.05 peak
3	4417.841	7.07	34.59	35.78	36.94	42.82	68.20	-25.38 peak
4 p	8613.468	11.24	36.90	37.22	38.56	49.48	68.20	-18.72 peak
5	10640.000	12.81	37.22	37.68	38.68	51.03	74.00	-22.97 peak
6	15960.000	14.37	41.52	37.40	34.12	52.61	74.00	-21.39 peak

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5270 TX RSE
Note : 5G WIFI 11AC40

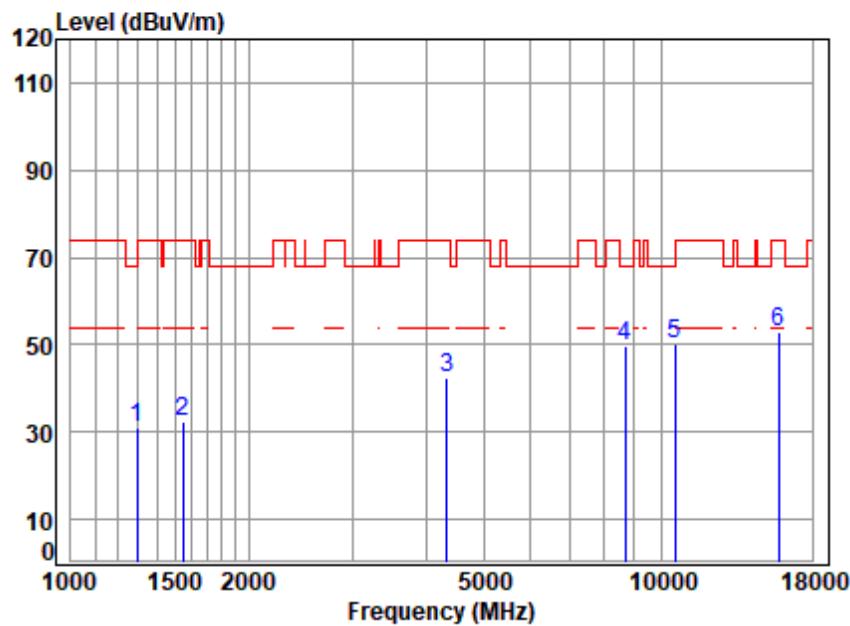
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1148.823	3.49	23.90	38.33	41.48	30.54	74.00	-43.46 peak
2 1511.833	4.08	26.85	38.39	39.19	31.73	74.00	-42.27 peak
3 4367.058	7.04	34.54	35.82	37.36	43.12	74.00	-30.88 peak
4 8688.480	11.38	36.90	37.30	38.85	49.83	68.20	-18.37 peak
5 p10540.000	12.78	37.30	37.63	37.46	49.91	68.20	-18.29 peak
6 15810.000	14.32	41.31	37.34	34.21	52.50	74.00	-21.50 peak

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5270 TX RSE
Note : 5G WIFI 11AC40

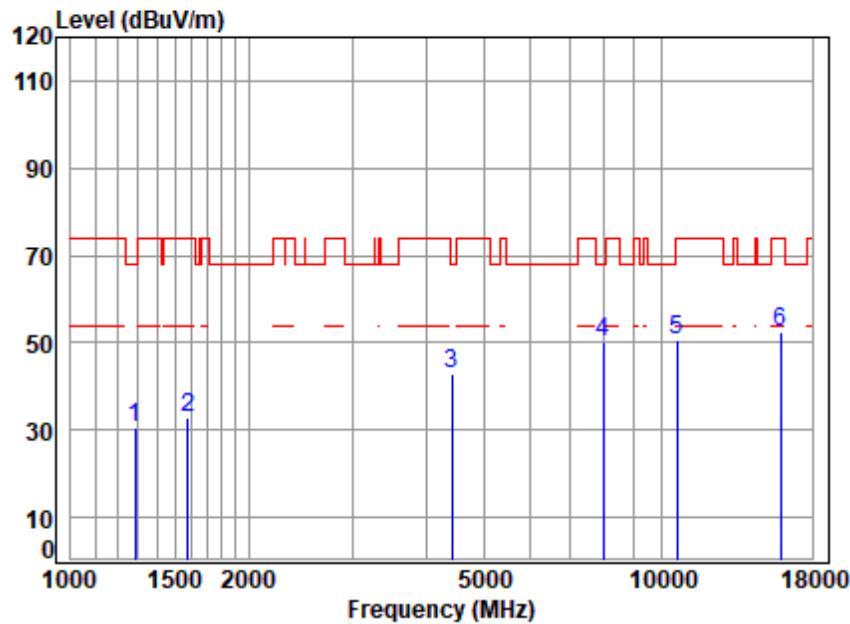
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1293.359	3.74	24.84	38.36	40.75	30.97	68.20	-37.23 peak
2	1547.199	4.13	26.99	38.39	39.47	32.20	74.00	-41.80 peak
3	4341.886	7.02	34.34	35.84	36.84	42.36	74.00	-31.64 peak
4	8688.480	11.38	36.90	37.30	38.68	49.66	68.20	-18.54 peak
5	p10540.000	12.78	37.30	37.63	37.55	50.00	68.20	-18.20 peak
6	15810.000	14.32	41.31	37.34	34.48	52.77	74.00	-21.23 peak

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5310 TX RSE
Note : 5G WIFI 11AC40

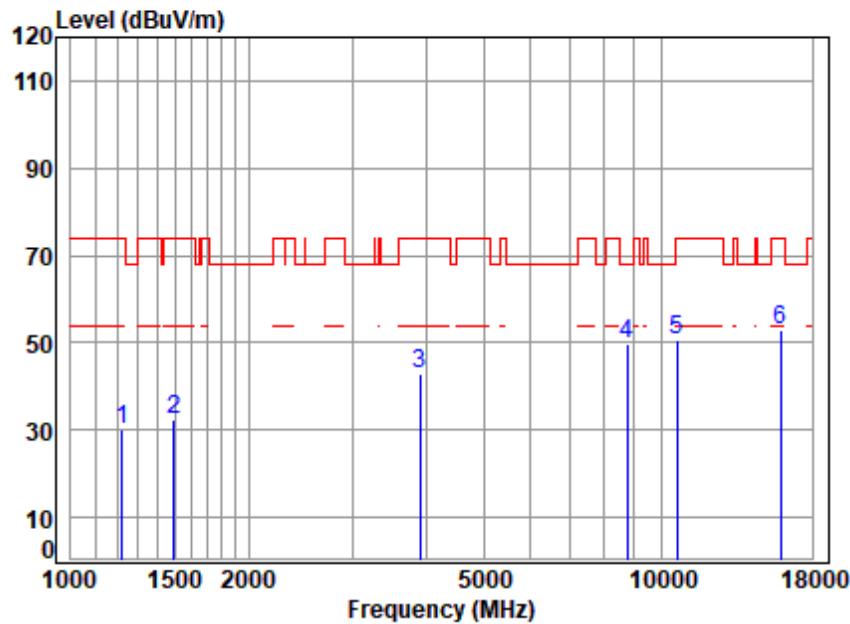
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1285.904	3.73	24.88	38.35	40.47	30.73	68.20	-37.47 peak
2 1578.822	4.17	26.88	38.40	40.08	32.73	74.00	-41.27 peak
3 4417.841	7.07	34.59	35.78	37.00	42.88	68.20	-25.32 peak
4 p 7989.893	10.09	36.40	36.55	40.18	50.12	68.20	-18.08 peak
5 10620.000	12.80	37.26	37.67	38.14	50.53	74.00	-23.47 peak
6 15930.000	14.36	41.46	37.39	34.00	52.43	74.00	-21.57 peak

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5310 TX RSE
Note : 5G WIFI 11AC40

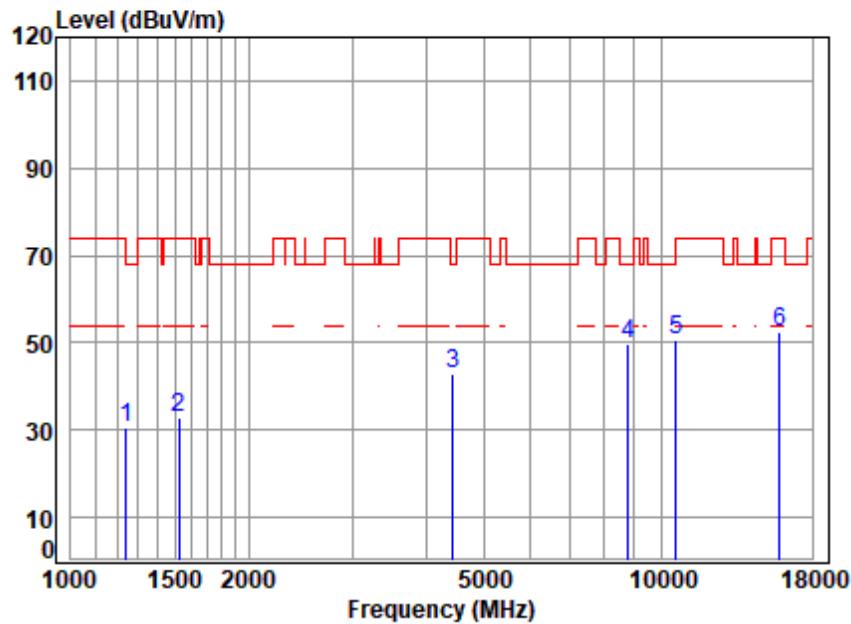
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1220.714	3.62	24.69	38.34	39.94	29.91	74.00	-44.09 peak
2 1494.455	4.05	26.64	38.39	40.13	32.43	74.00	-41.57 peak
3 3901.516	6.68	33.79	36.10	38.49	42.86	74.00	-31.14 peak
4 p 8764.146	11.51	36.96	37.37	38.45	49.55	68.20	-18.65 peak
5 10620.000	12.80	37.26	37.67	38.29	50.68	74.00	-23.32 peak
6 15930.000	14.36	41.46	37.39	34.46	52.89	74.00	-21.11 peak

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5290 TX RSE
Note : 5G WIFI 11AC80

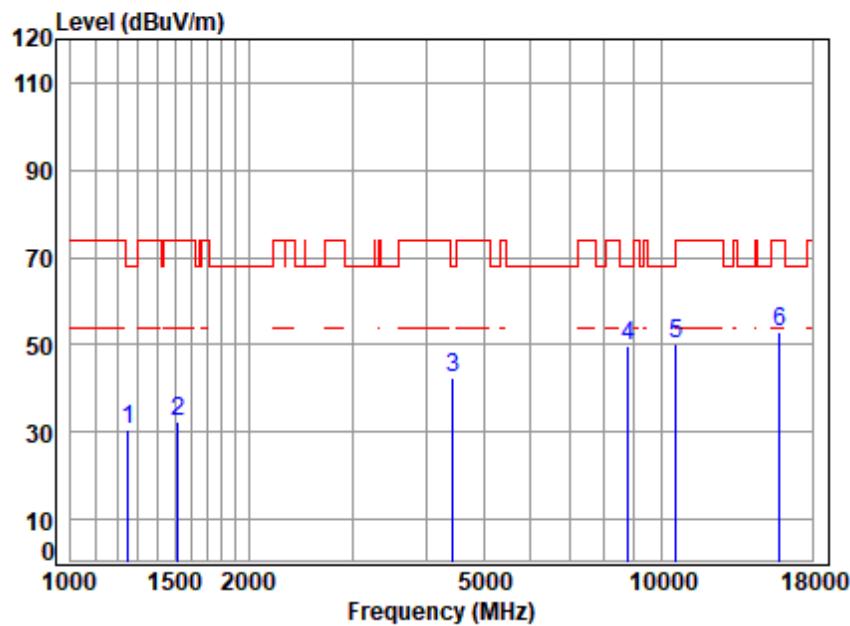
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1242.068	3.66	24.99	38.35	40.25	30.55	68.20	-37.65 peak
2 1525.000	4.10	26.90	38.39	40.19	32.80	74.00	-41.20 peak
3 4443.453	7.09	34.28	35.77	37.45	43.05	68.20	-25.15 peak
4 8789.516	11.55	37.06	37.40	38.33	49.54	68.20	-18.66 peak
5 p10580.000	12.79	37.30	37.65	38.21	50.65	68.20	-17.55 peak
6 15870.000	14.34	41.37	37.37	34.32	52.66	74.00	-21.34 peak

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



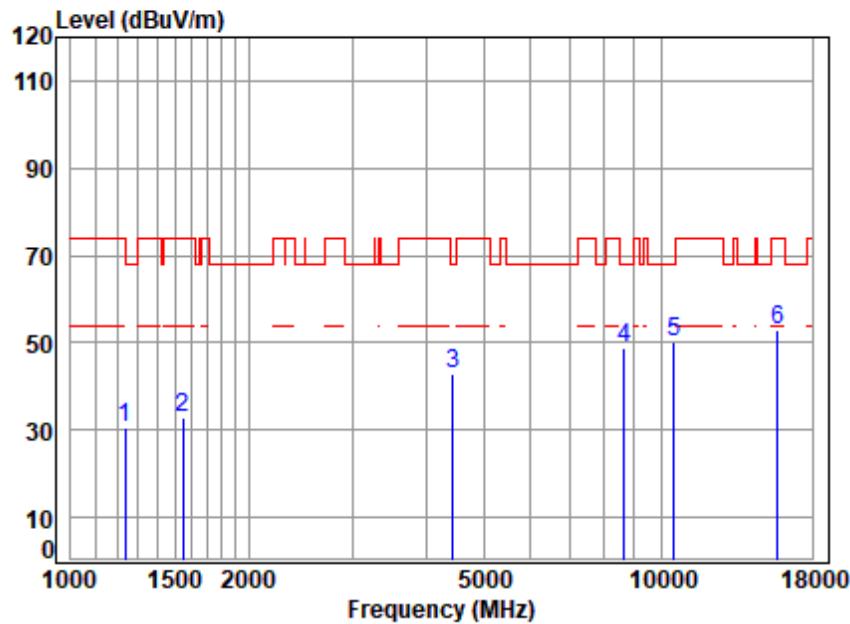
Site : chamber
 Condition: 3m VERTICAL
 Job No : 01162TL
 Mode : 5290 TX RSE
 Note : 5G WIFI 11AC80

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1249.269	3.67	25.09	38.35	40.27	30.68	68.20	-37.52 peak
2	1516.210	4.08	26.86	38.39	39.80	32.35	74.00	-41.65 peak
3	4443.453	7.09	34.28	35.77	37.05	42.65	68.20	-25.55 peak
4	8789.516	11.55	37.06	37.40	38.52	49.73	68.20	-18.47 peak
5	p10580.000	12.79	37.30	37.65	37.77	50.21	68.20	-17.99 peak
6	15870.000	14.34	41.37	37.37	34.57	52.91	74.00	-21.09 peak

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5250 TX RSE
Note : 5G WIFI 11AC160

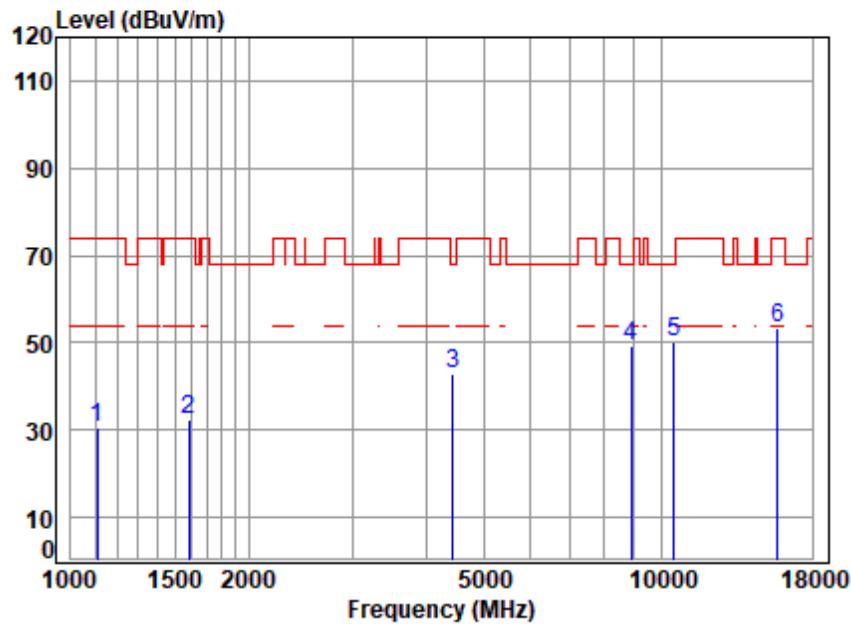
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1234.909	3.64	24.89	38.35	40.29	30.47	74.00	-43.53 peak
2 1547.199	4.13	26.99	38.39	40.01	32.74	74.00	-41.26 peak
3 4443.453	7.09	34.28	35.77	37.41	43.01	68.20	-25.19 peak
4 8663.404	11.33	36.90	37.27	37.91	48.87	68.20	-19.33 peak
5 p10500.000	12.77	37.30	37.61	37.90	50.36	68.20	-17.84 peak
6 15750.000	14.30	41.25	37.32	34.70	52.93	74.00	-21.07 peak

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5250 TX RSE

Note : 5G WIFI 11AC160

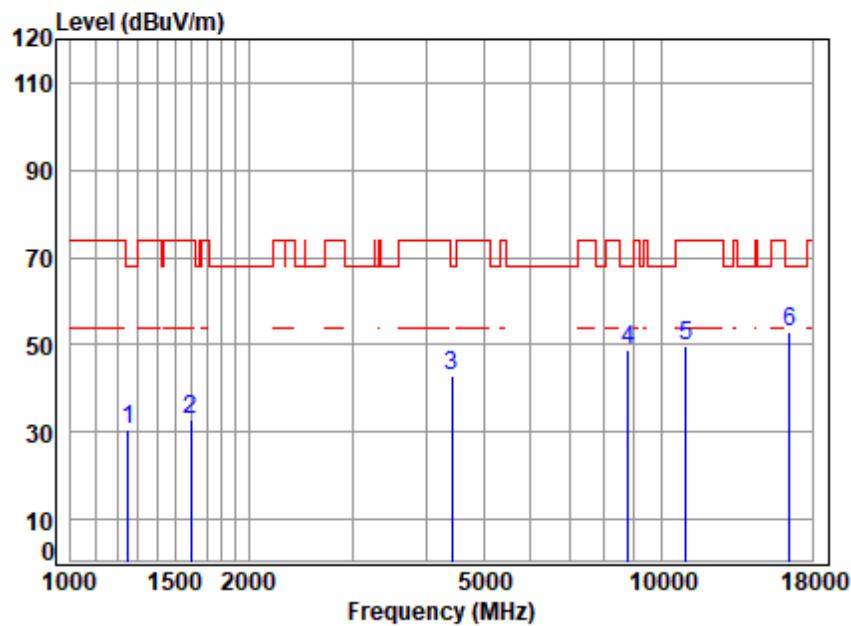
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1109.660	3.41	23.74	38.32	41.54	30.37	74.00	-43.63 peak
2 1587.975	4.18	26.85	38.40	39.77	32.40	74.00	-41.60 peak
3 4430.628	7.08	34.43	35.77	37.26	43.00	68.20	-25.20 peak
4 8891.725	11.73	37.20	37.50	37.77	49.20	68.20	-19.00 peak
5 p10500.000	12.77	37.30	37.61	37.72	50.18	68.20	-18.02 peak
6 15750.000	14.30	41.25	37.32	35.12	53.35	74.00	-20.65 peak

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5500 TX RSE
Note : 5G WIFI 11A

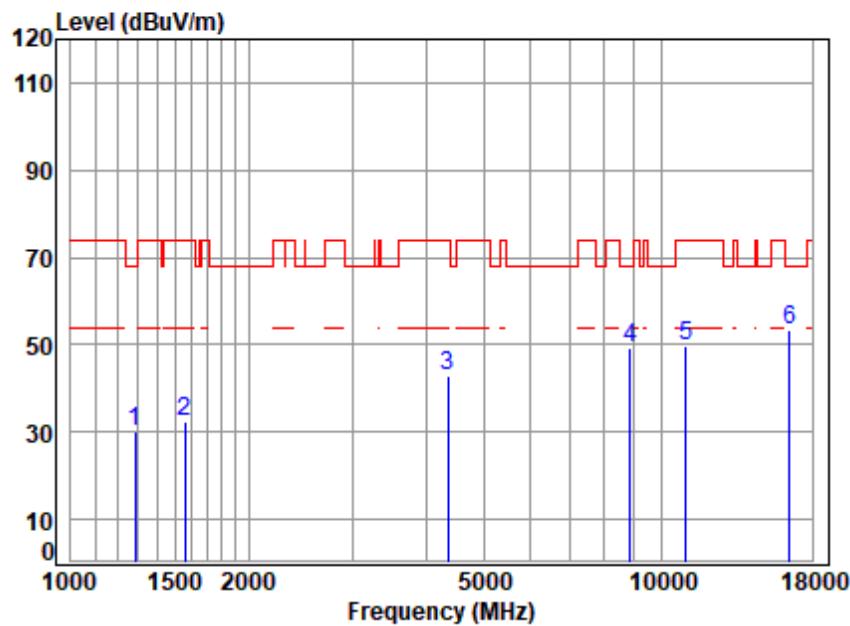
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 1249.269	3.67	25.09	38.35	40.30	30.71	68.20	-37.49	peak
2 1597.181	4.20	26.81	38.40	40.31	32.92	74.00	-41.08	peak
3 4417.841	7.07	34.59	35.78	37.17	43.05	68.20	-25.15	peak
4 8789.516	11.55	37.06	37.40	37.69	48.90	68.20	-19.30	peak
5 11000.000	12.90	37.50	37.84	37.16	49.72	74.00	-24.28	peak
6 p16500.000	14.47	42.10	37.47	33.65	52.75	68.20	-15.45	peak

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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5500 TX RSE
Note : 5G WIFI 11A

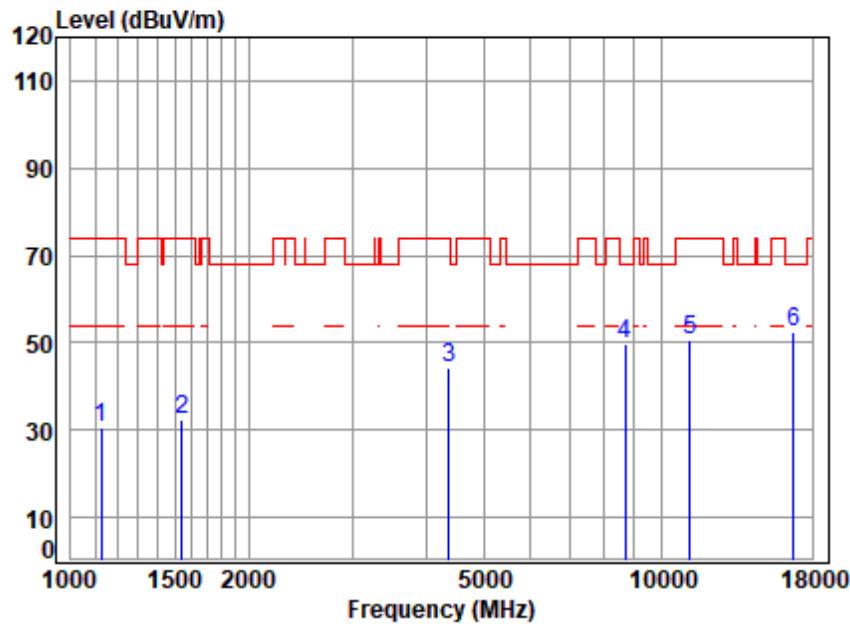
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1285.904	3.73	24.88	38.35	39.86	30.12	68.20	-38.08 peak
2	1560.673	4.15	26.96	38.40	39.50	32.21	74.00	-41.79 peak
3	4354.454	7.03	34.44	35.83	37.32	42.96	74.00	-31.04 peak
4	8866.062	11.69	37.20	37.48	38.06	49.47	68.20	-18.73 peak
5	11000.000	12.90	37.50	37.84	37.34	49.90	74.00	-24.10 peak
6	p16500.000	14.47	42.10	37.47	34.45	53.55	68.20	-14.65 peak

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



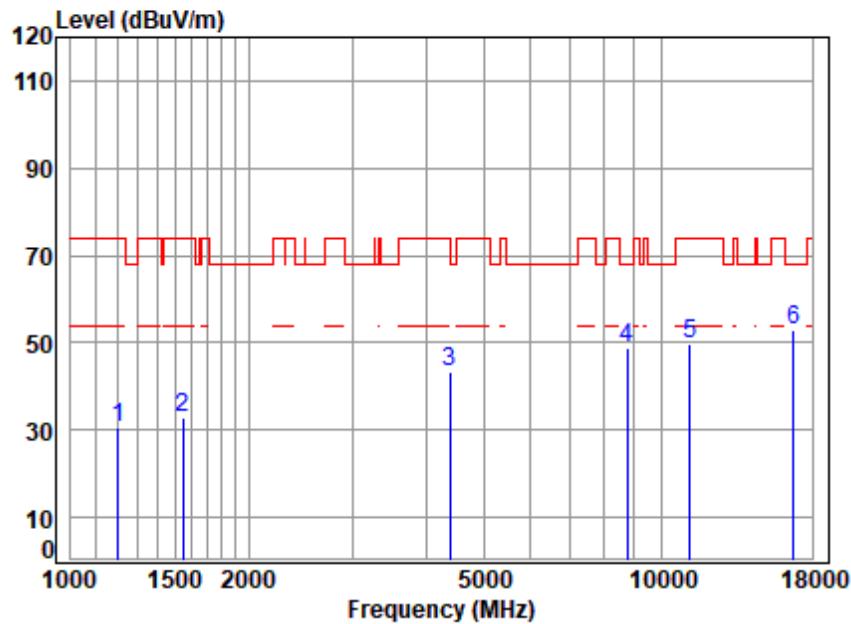
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01162TL
 Mode : 5580 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	3.44	23.80	38.33	41.79	30.70	74.00	-43.30 peak
2	1542.733	4.12	26.97	38.39	39.64	32.34	74.00	-41.66 peak
3	4367.058	7.04	34.54	35.82	38.44	44.20	74.00	-29.80 peak
4	8688.480	11.38	36.90	37.30	38.68	49.66	68.20	-18.54 peak
5	11160.000	12.93	37.62	37.79	37.92	50.68	74.00	-23.32 peak
6	p16740.000	14.51	42.78	37.49	32.84	52.64	68.20	-15.56 peak

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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



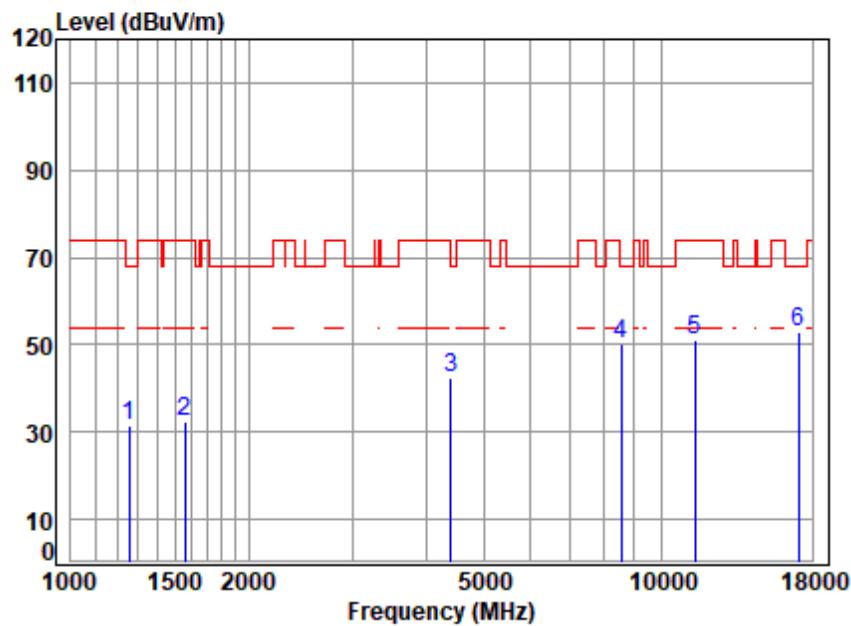
Site : chamber
 Condition: 3m VERTICAL
 Job No : 01162TL
 Mode : 5580 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1203.199	3.59	24.44	38.34	40.94	30.63	74.00	-43.37 peak
2	1547.199	4.13	26.99	38.39	40.05	32.78	74.00	-41.22 peak
3	4392.376	7.05	34.74	35.80	37.25	43.24	74.00	-30.76 peak
4	8764.146	11.51	36.96	37.37	37.83	48.93	68.20	-19.27 peak
5	11160.000	12.93	37.62	37.79	37.12	49.88	74.00	-24.12 peak
6	p16740.000	14.51	42.78	37.49	32.93	52.73	68.20	-15.47 peak

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01162TL
 Mode : 5700 TX RSE
 Note : 5G WIFI 11A

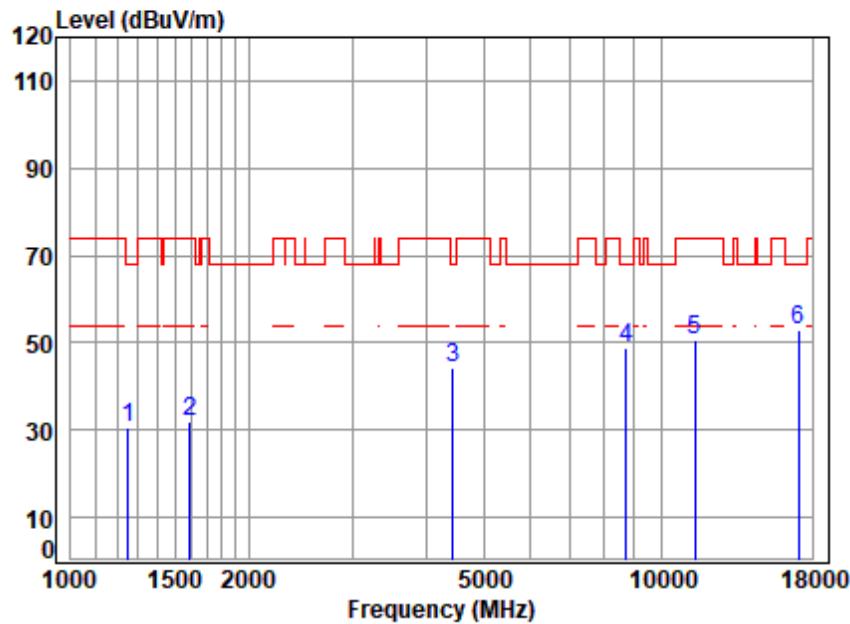
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1256.512	3.68	25.06	38.35	41.32	31.71	68.20	-36.49 peak
2	1560.673	4.15	26.96	38.40	39.66	32.37	74.00	-41.63 peak
3	4405.090	7.06	34.74	35.79	36.61	42.62	68.20	-25.58 peak
4	8539.102	11.11	36.78	37.14	39.25	50.00	68.20	-18.20 peak
5	11400.000	12.98	37.70	37.72	37.98	50.94	74.00	-23.06 peak
6	p17100.000	14.62	43.10	37.53	32.61	52.80	68.20	-15.40 peak

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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01162TL
 Mode : 5700 TX RSE
 Note : 5G WIFI 11A

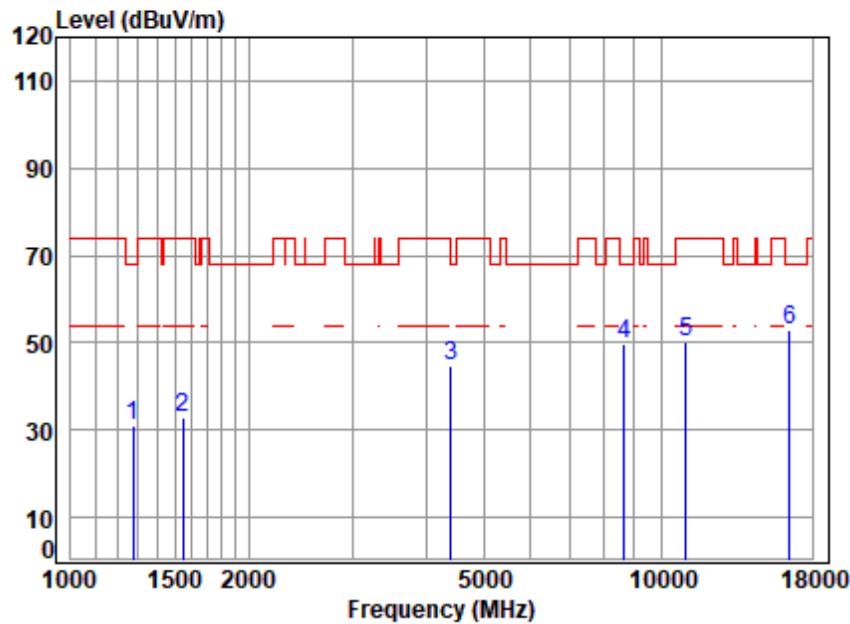
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1249.269	3.67	25.09	38.35	40.16	30.57	68.20	-37.63 peak
2	1592.571	4.19	26.83	38.40	39.51	32.13	74.00	-41.87 peak
3	4443.453	7.09	34.28	35.77	38.57	44.17	68.20	-24.03 peak
4	8713.630	11.42	36.90	37.32	37.76	48.76	68.20	-19.44 peak
5	11400.000	12.98	37.70	37.72	37.57	50.53	74.00	-23.47 peak
6	p17100.000	14.62	43.10	37.53	32.63	52.82	68.20	-15.38 peak

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01162TL
 Mode : 5500 TX RSE
 Note : 5G WIFI 11AC20

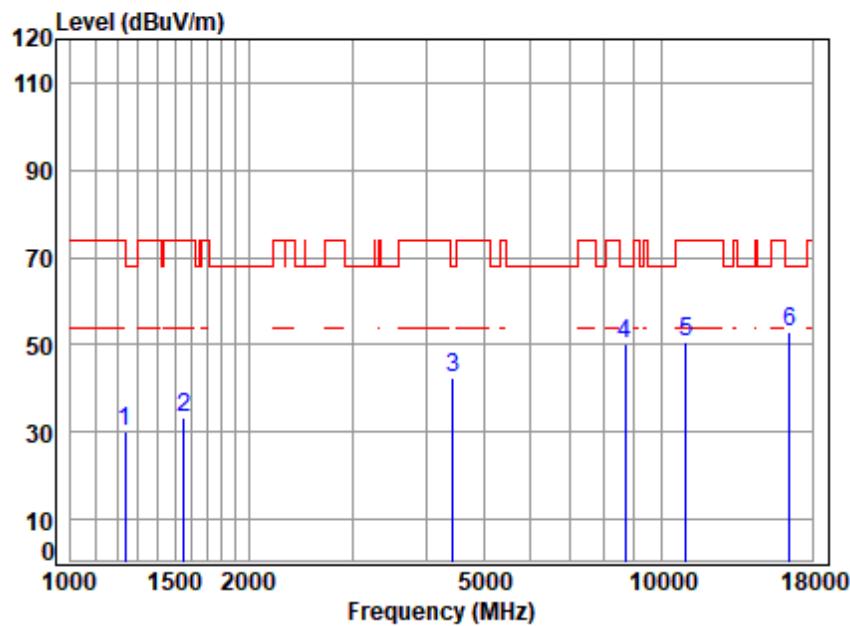
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		MHz	Loss	Factor	Factor	Level	Level	
1	1274.802	3.71	24.95	38.35	40.94	31.25	68.20	-36.95 peak
2	1547.199	4.13	26.99	38.39	40.19	32.92	74.00	-41.08 peak
3	4405.090	7.06	34.74	35.79	38.57	44.58	68.20	-23.62 peak
4	8663.404	11.33	36.90	37.27	38.56	49.52	68.20	-18.68 peak
5	11000.000	12.90	37.50	37.84	37.53	50.09	74.00	-23.91 peak
6	p16500.000	14.47	42.10	37.47	33.67	52.77	68.20	-15.43 peak

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



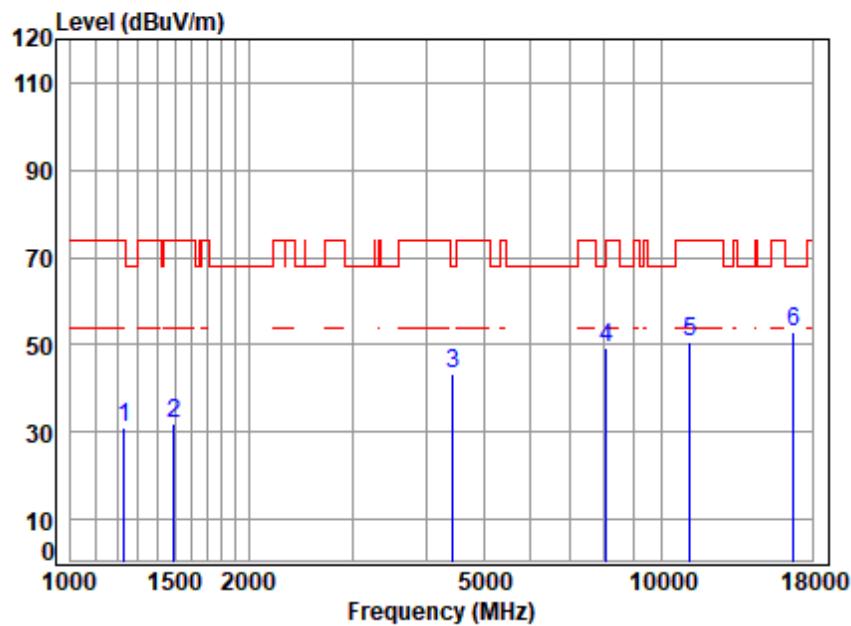
Site : chamber
 Condition: 3m VERTICAL
 Job No : 01162TL
 Mode : 5500 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1234.909	3.64	24.89	38.35	39.92	30.10	74.00	-43.90 peak
2	1551.677	4.13	26.99	38.40	40.77	33.49	74.00	-40.51 peak
3	4443.453	7.09	34.28	35.77	36.88	42.48	68.20	-25.72 peak
4	8688.480	11.38	36.90	37.30	39.05	50.03	68.20	-18.17 peak
5	11000.000	12.90	37.50	37.84	38.04	50.60	74.00	-23.40 peak
6	p16500.000	14.47	42.10	37.47	34.05	53.15	68.20	-15.05 peak

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



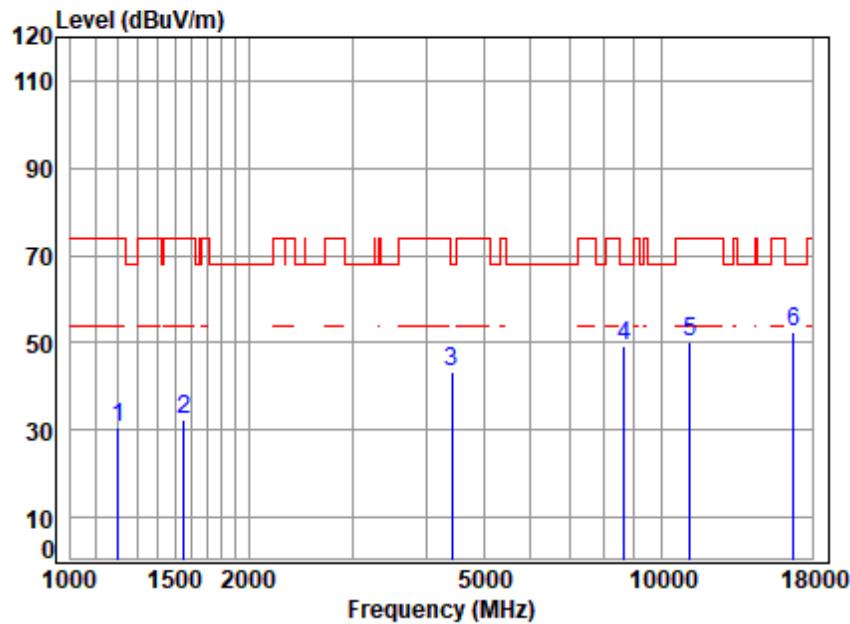
Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5580 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1231.345	3.64	24.84	38.35	40.78	30.91	74.00	-43.09 peak
2	1494.455	4.05	26.64	38.39	39.67	31.97	74.00	-42.03 peak
3	4430.628	7.08	34.43	35.77	37.53	43.27	68.20	-24.93 peak
4	8082.804	10.26	36.47	36.65	39.13	49.21	74.00	-24.79 peak
5	11160.000	12.93	37.62	37.79	38.07	50.83	74.00	-23.17 peak
6	p16740.000	14.51	42.78	37.49	32.93	52.73	68.20	-15.47 peak

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5580 TX RSE
Note : 5G WIFI 11AC20

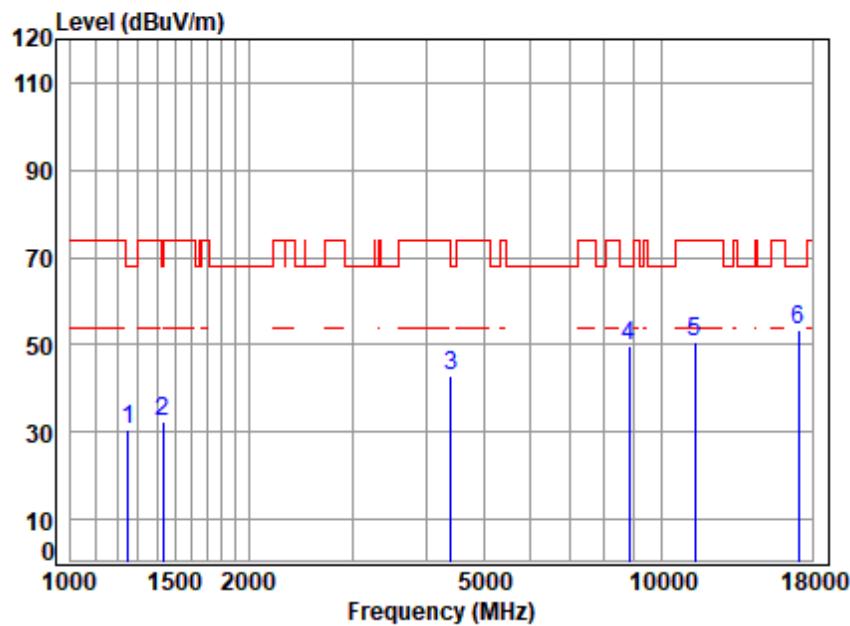
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
1 1203.199	3.59	24.44	38.34	41.02	30.71	74.00	-43.29	peak	
2 1551.677	4.13	26.99	38.40	39.67	32.39	74.00	-41.61	peak	
3 4417.841	7.07	34.59	35.78	37.63	43.51	68.20	-24.69	peak	
4 8663.404	11.33	36.90	37.27	38.27	49.23	68.20	-18.97	peak	
5 11160.000	12.93	37.62	37.79	37.41	50.17	74.00	-23.83	peak	
6 p16740.000	14.51	42.78	37.49	32.84	52.64	68.20	-15.56	peak	

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



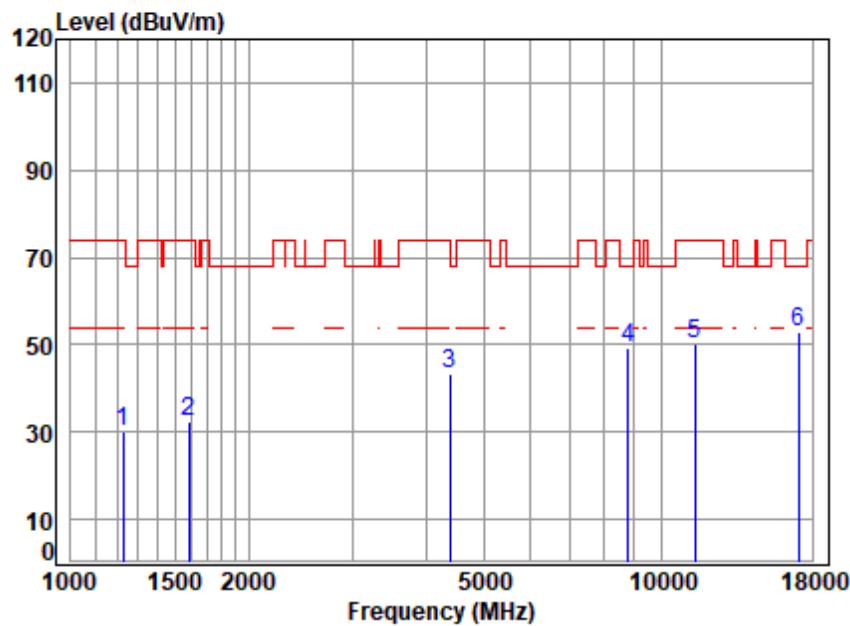
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01162TL
 Mode : 5700 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		MHz	Loss	Factor	Factor	Level	Level	
1	1249.269	3.67	25.09	38.35	40.36	30.77	68.20	-37.43 peak
2	1431.047	3.96	25.10	38.38	41.85	32.53	68.20	-35.67 peak
3	4405.090	7.06	34.74	35.79	36.82	42.83	68.20	-25.37 peak
4	8814.957	11.60	37.13	37.42	38.31	49.62	68.20	-18.58 peak
5	11400.000	12.98	37.70	37.72	37.87	50.83	74.00	-23.17 peak
6	p17100.000	14.62	43.10	37.53	33.00	53.19	68.20	-15.01 peak

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5700 TX RSE
Note : 5G WIFI 11AC20

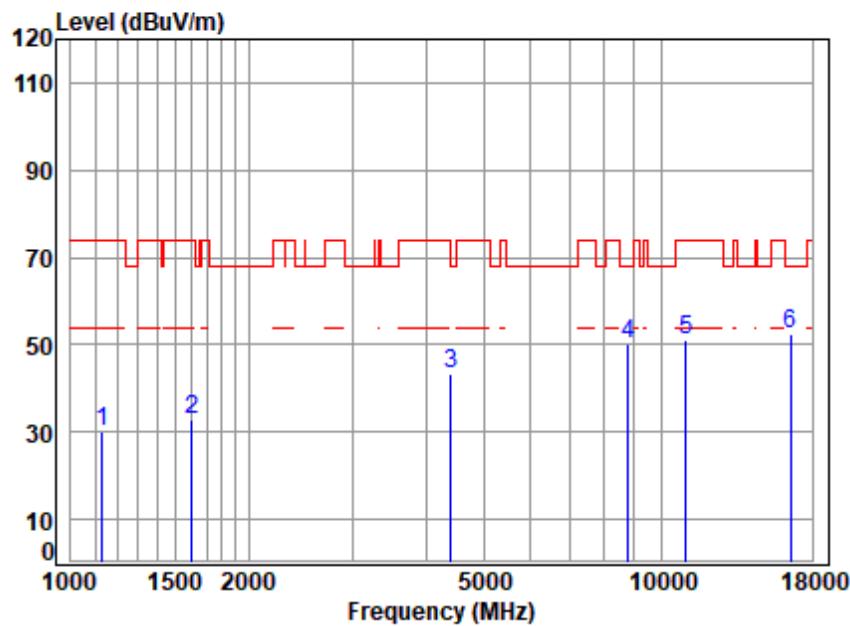
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1227.791	3.63	24.79	38.34	39.84	29.92	74.00	-44.08 peak
2	1583.392	4.18	26.87	38.40	39.78	32.43	74.00	-41.57 peak
3	4379.699	7.04	34.64	35.81	37.49	43.36	74.00	-30.64 peak
4	8789.516	11.55	37.06	37.40	38.03	49.24	68.20	-18.96 peak
5	11400.000	12.98	37.70	37.72	37.43	50.39	74.00	-23.61 peak
6	p17100.000	14.62	43.10	37.53	32.94	53.13	68.20	-15.07 peak

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



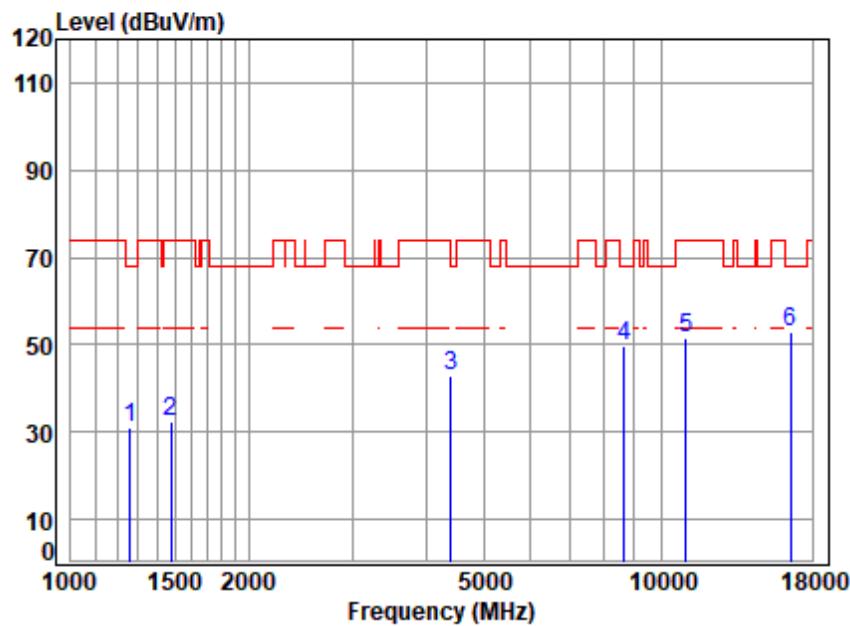
Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5510 TX RSE
Note : 5G WIFI 11AC40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	MHz	Loss	Factor	Factor	Level	Level	Line	Limit
1	1129.072	3.45	23.82	38.33	41.30	30.24	74.00	-43.76 peak
2	1606.441	4.21	26.74	38.40	40.23	32.78	74.00	-41.22 peak
3	4405.090	7.06	34.74	35.79	37.50	43.51	68.20	-24.69 peak
4	8789.516	11.55	37.06	37.40	38.82	50.03	68.20	-18.17 peak
5	11020.000	12.90	37.50	37.83	38.64	51.21	74.00	-22.79 peak
6	p16530.000	14.48	42.16	37.47	33.41	52.58	68.20	-15.62 peak

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



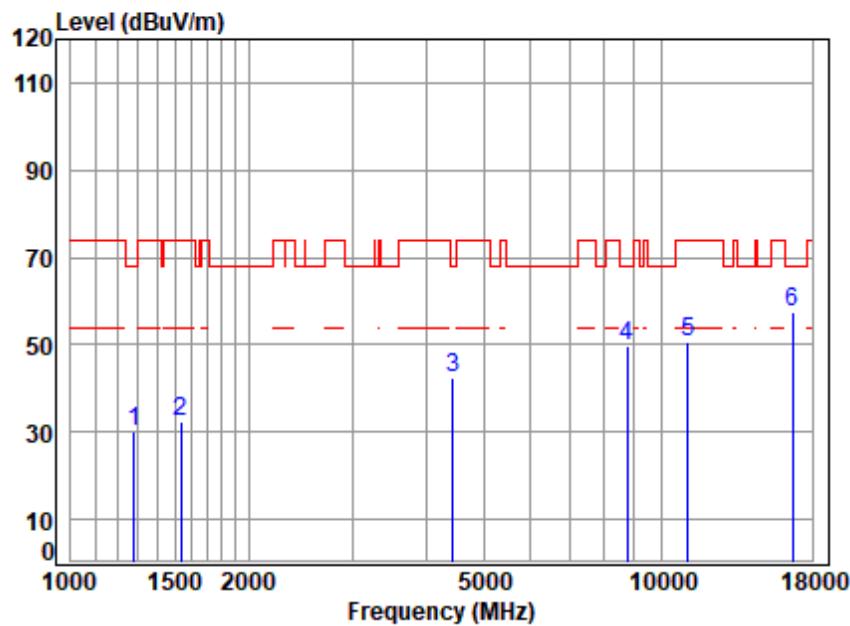
Site : chamber
 Condition: 3m VERTICAL
 Job No : 01162TL
 Mode : 5510 TX RSE
 Note : 5G WIFI 11AC40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1260.149	3.69	25.04	38.35	40.51	30.89	68.20	-37.31 peak
2	1477.276	4.03	26.16	38.38	40.46	32.27	74.00	-41.73 peak
3	4405.090	7.06	34.74	35.79	37.08	43.09	68.20	-25.11 peak
4	8638.399	11.29	36.90	37.24	38.68	49.63	68.20	-18.57 peak
5	11020.000	12.90	37.50	37.83	39.06	51.63	74.00	-22.37 peak
6	p16530.000	14.48	42.16	37.47	33.58	52.75	68.20	-15.45 peak

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



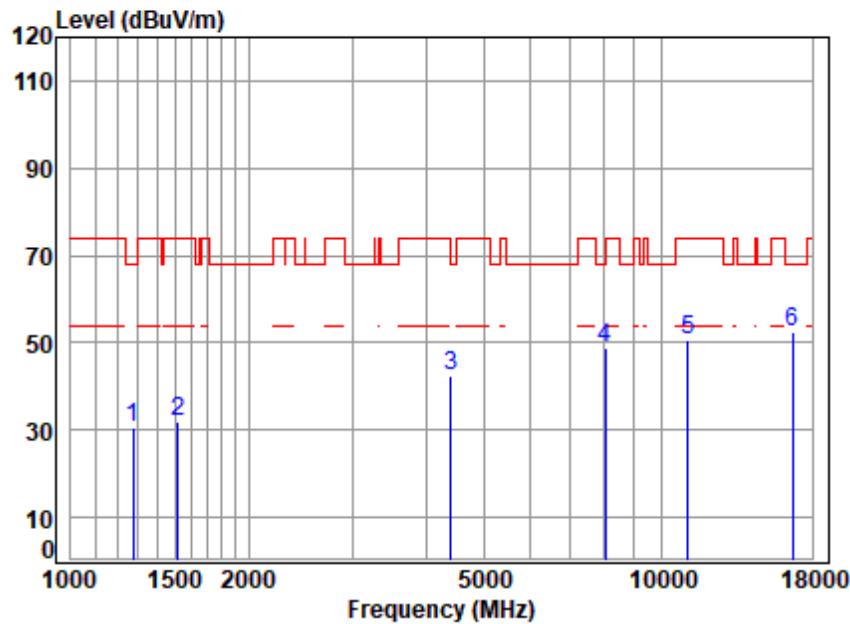
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01162TL
 Mode : 5670 TX RSE
 Note : 5G WIFI 11AC40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1278.492	3.72	24.93	38.35	39.89	30.19	68.20	-38.01 peak
2	1538.281	4.12	26.95	38.39	39.57	32.25	74.00	-41.75 peak
3	4430.628	7.08	34.43	35.77	36.71	42.45	68.20	-25.75 peak
4	8764.146	11.51	36.96	37.37	38.43	49.53	68.20	-18.67 peak
5	11100.000	12.92	37.50	37.81	38.16	50.77	74.00	-23.23 peak
6	p16650.000	14.50	42.50	37.48	37.96	57.48	68.20	-10.72 peak

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



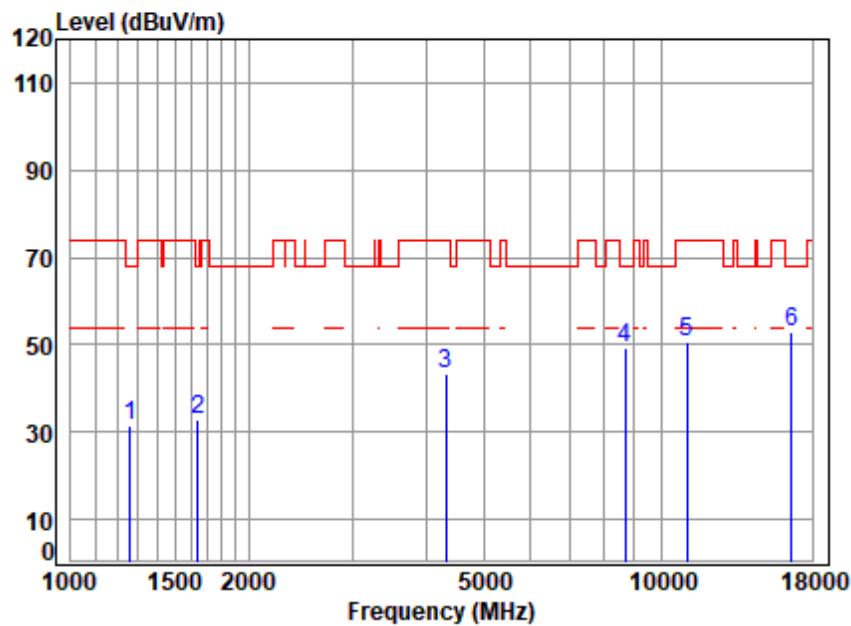
Site : chamber
 Condition: 3m VERTICAL
 Job No : 01162TL
 Mode : 5670 TX RSE
 Note : 5G WIFI 11AC40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1274.802	3.71	24.95	38.35	40.20	30.51	68.20	-37.69 peak
2	1516.210	4.08	26.86	38.39	39.52	32.07	74.00	-41.93 peak
3	4405.090	7.06	34.74	35.79	36.38	42.39	68.20	-25.81 peak
4	8036.214	10.17	36.40	36.60	38.82	48.79	74.00	-25.21 peak
5	11100.000	12.92	37.50	37.81	38.03	50.64	74.00	-23.36 peak
6	p16650.000	14.50	42.50	37.48	33.14	52.66	68.20	-15.54 peak

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5530 TX RSE
Note : 5G WIFI 11AC80

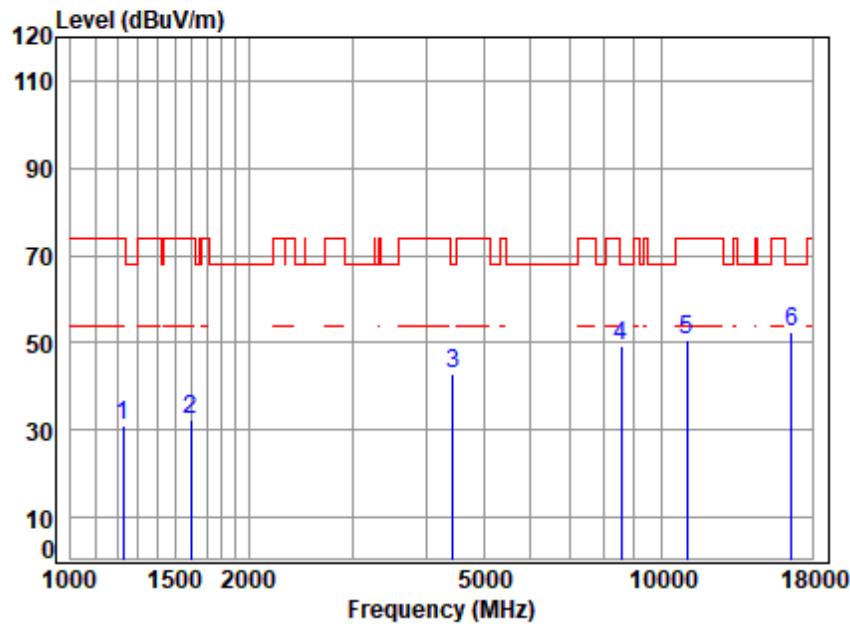
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	3.69	25.04	38.35	40.94	31.32	68.20	-36.88	peak
2	1639.274	4.25	26.41	38.41	40.69	32.94	68.20	-35.26	peak
3	4316.859	7.00	34.13	35.86	38.21	43.48	74.00	-30.52	peak
4	8688.480	11.38	36.90	37.30	38.46	49.44	68.20	-18.76	peak
5	11060.000	12.91	37.50	37.82	38.10	50.69	74.00	-23.31	peak
6	p16590.000	14.49	42.28	37.47	33.77	53.07	68.20	-15.13	peak

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



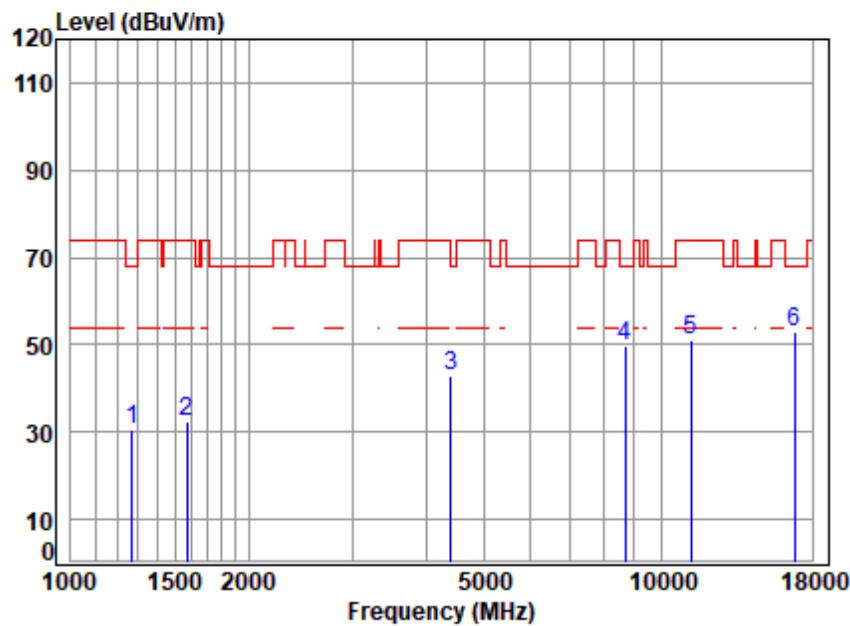
Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5530 TX RSE
Note : 5G WIFI 11AC80

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1227.791	3.63	24.79	38.34	41.03	31.11	74.00	-42.89 peak
2	1597.181	4.20	26.81	38.40	39.64	32.25	74.00	-41.75 peak
3	4430.628	7.08	34.43	35.77	37.01	42.75	68.20	-25.45 peak
4	8563.818	11.15	36.83	37.17	38.26	49.07	68.20	-19.13 peak
5	11060.000	12.91	37.50	37.82	38.14	50.73	74.00	-23.27 peak
6	p16590.000	14.49	42.28	37.47	33.37	52.67	68.20	-15.53 peak

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5610 TX RSE
Note : 5G WIFI 11AC80

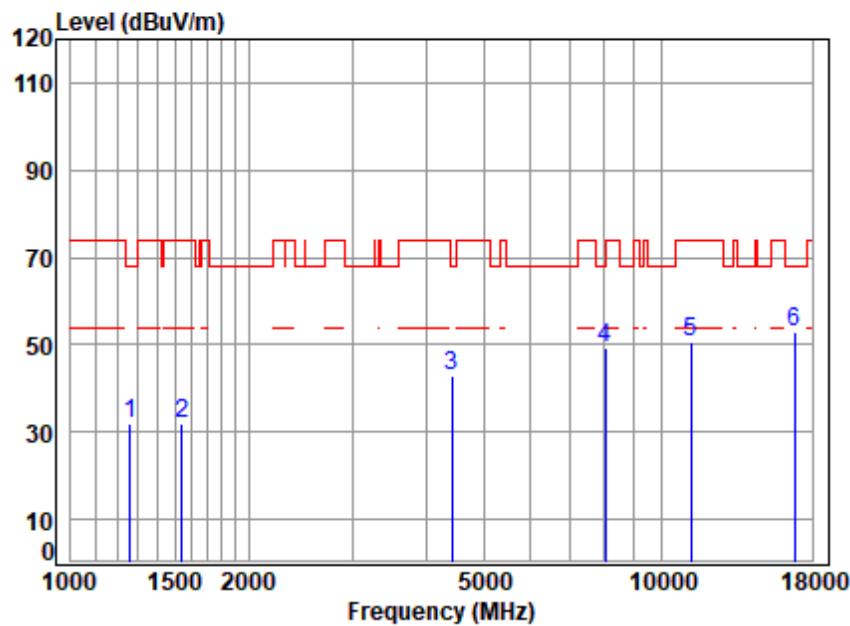
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1271.123	3.71	24.97	38.35	40.32	30.65	68.20	-37.55 peak
2	1574.265	4.17	26.90	38.40	39.53	32.20	74.00	-41.80 peak
3	4405.090	7.06	34.74	35.79	36.86	42.87	68.20	-25.33 peak
4	8688.480	11.38	36.90	37.30	38.92	49.90	68.20	-18.30 peak
5	11220.000	12.94	37.72	37.77	38.42	51.31	74.00	-22.69 peak
6	p16830.000	14.53	42.99	37.50	33.08	53.10	68.20	-15.10 peak

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



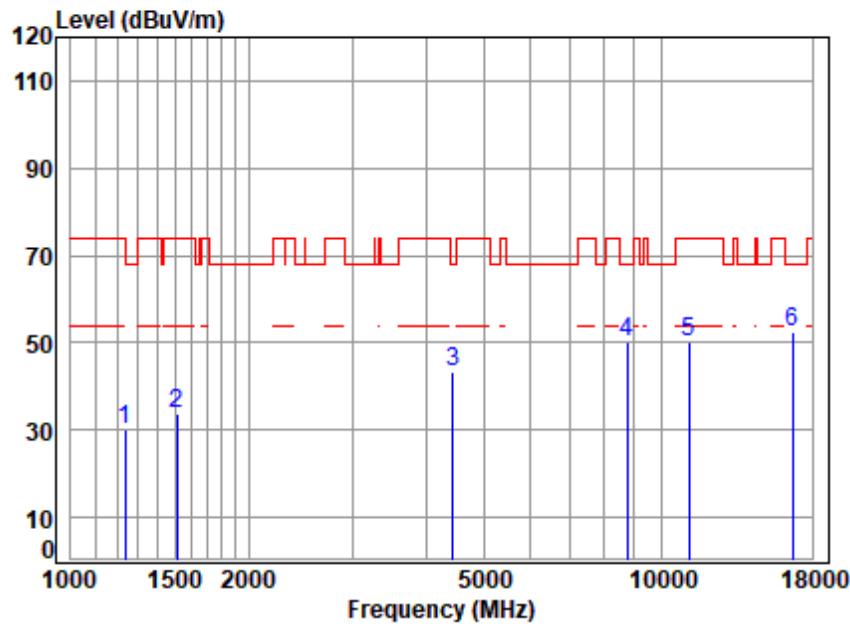
Site : chamber
 Condition: 3m VERTICAL
 Job No : 01162TL
 Mode : 5610 TX RSE
 Note : 5G WIFI 11AC80

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1260.149	3.69	25.04	38.35	41.49	31.87	68.20	-36.33 peak
2	1542.733	4.12	26.97	38.39	39.44	32.14	74.00	-41.86 peak
3	4417.841	7.07	34.59	35.78	37.05	42.93	68.20	-25.27 peak
4	8036.214	10.17	36.40	36.60	39.10	49.07	74.00	-24.93 peak
5	11220.000	12.94	37.72	37.77	37.80	50.69	74.00	-23.31 peak
6	p16830.000	14.53	42.99	37.50	32.98	53.00	68.20	-15.20 peak

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



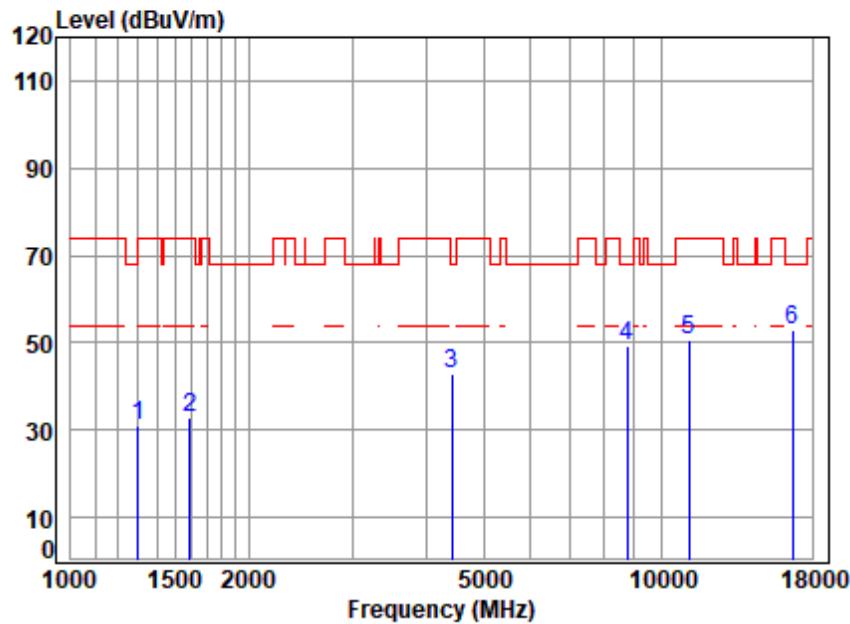
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01162TL
 Mode : 5570 TX RSE
 Note : 5G WIFI 11AC160

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1234.909	3.64	24.89	38.35	40.13	30.31	74.00	-43.69 peak
2	1511.833	4.08	26.85	38.39	41.15	33.69	74.00	-40.31 peak
3	4430.628	7.08	34.43	35.77	37.54	43.28	68.20	-24.92 peak
4	8738.852	11.47	36.90	37.35	39.16	50.18	68.20	-18.02 peak
5	11140.000	12.93	37.58	37.80	37.67	50.38	74.00	-23.62 peak
6	p16710.000	14.51	42.72	37.48	32.55	52.30	68.20	-15.90 peak

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 01162TL

Mode : 5570 TX RSE

Note : 5G WIFI 11AC160

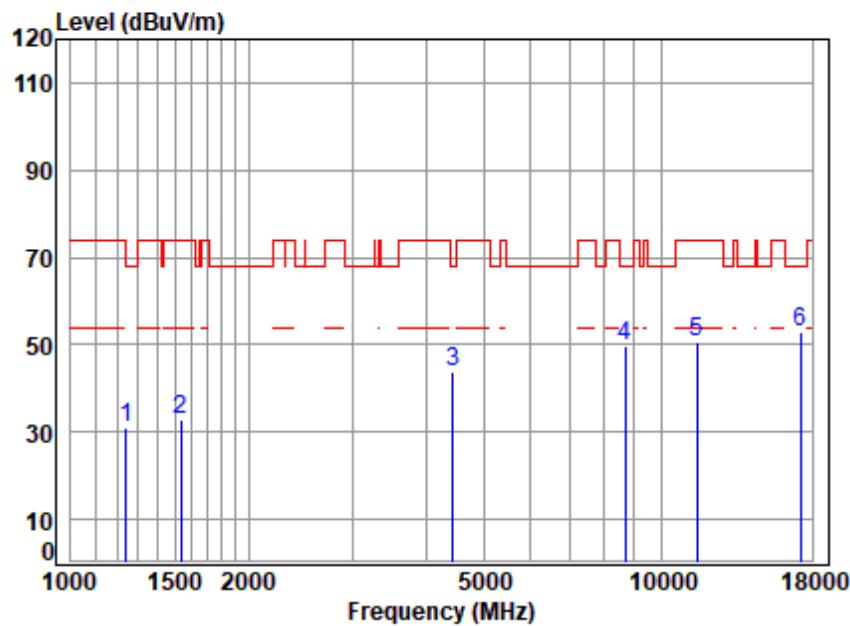
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1300.858	3.76	24.79	38.36	40.78	30.97	74.00	-43.03 peak
2	1592.571	4.19	26.83	38.40	40.33	32.95	74.00	-41.05 peak
3	4417.841	7.07	34.59	35.78	36.94	42.82	68.20	-25.38 peak
4	8764.146	11.51	36.96	37.37	38.35	49.45	68.20	-18.75 peak
5	11140.000	12.93	37.58	37.80	37.93	50.64	74.00	-23.36 peak
6	p16710.000	14.51	42.72	37.48	33.29	53.04	68.20	-15.16 peak

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



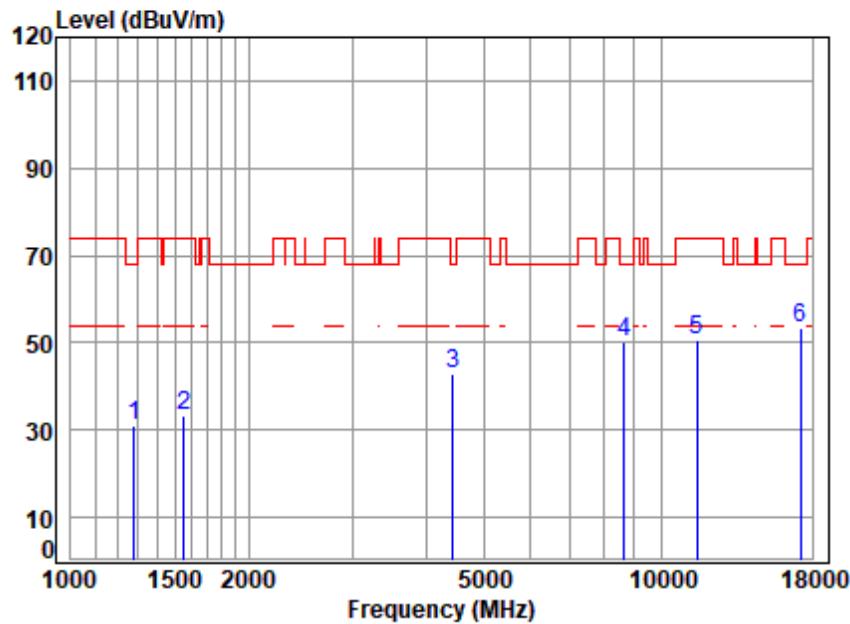
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01162TL
 Mode : 5745 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1242.068	3.66	24.99	38.35	40.95	31.25	68.20	-36.95 peak
2	1538.281	4.12	26.95	38.39	39.99	32.67	74.00	-41.33 peak
3	4430.628	7.08	34.43	35.77	38.04	43.78	68.20	-24.42 peak
4	8688.480	11.38	36.90	37.30	38.69	49.67	68.20	-18.53 peak
5	11490.000	13.00	37.79	37.69	37.37	50.47	74.00	-23.53 peak
6	p17235.000	14.70	43.03	37.55	32.93	53.11	68.20	-15.09 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5745 TX RSE
Note : 5G WIFI 11A

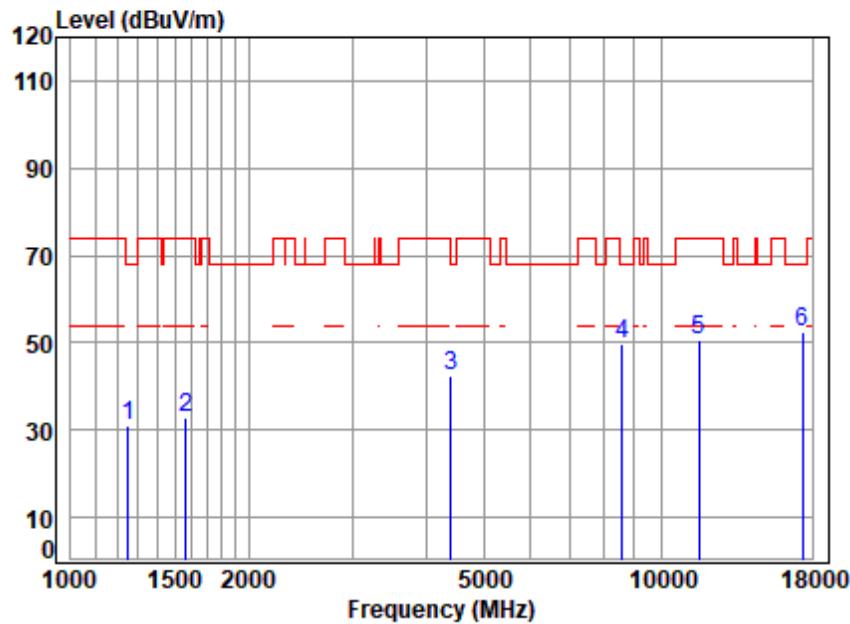
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 1282.193	3.72	24.91	38.35	40.57	30.85	68.20	-37.35	peak
2 1551.677	4.13	26.99	38.40	40.60	33.32	74.00	-40.68	peak
3 4443.453	7.09	34.28	35.77	37.27	42.87	68.20	-25.33	peak
4 8663.404	11.33	36.90	37.27	39.30	50.26	68.20	-17.94	peak
5 11490.000	13.00	37.79	37.69	37.39	50.49	74.00	-23.51	peak
6 p17235.000	14.70	43.03	37.55	33.00	53.18	68.20	-15.02	peak

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



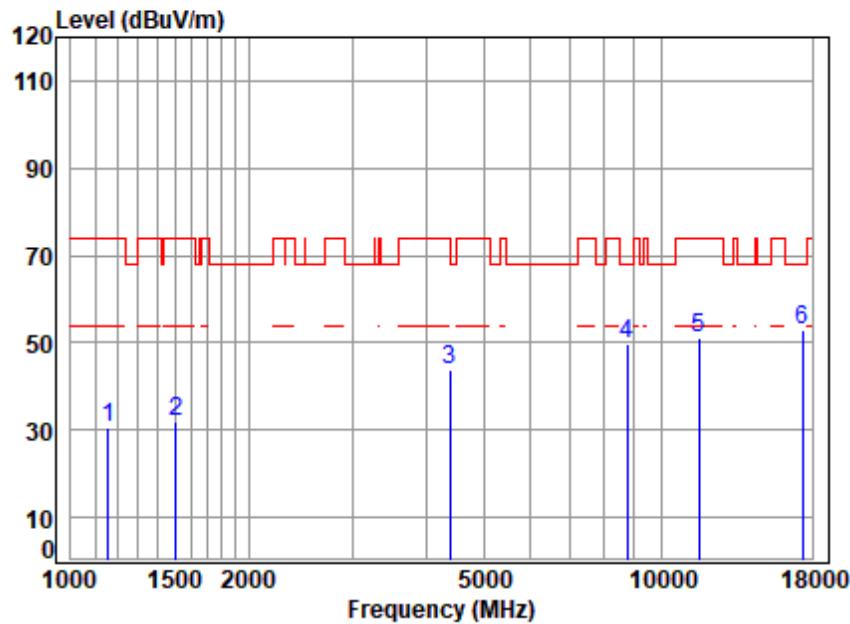
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01162TL
 Mode : 5785 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1249.269	3.67	25.09	38.35	40.52	30.93	68.20	-37.27 peak
2	1565.191	4.15	26.94	38.40	40.02	32.71	74.00	-41.29 peak
3	4405.090	7.06	34.74	35.79	36.63	42.64	68.20	-25.56 peak
4	8588.607	11.20	36.88	37.19	38.84	49.73	68.20	-18.47 peak
5	11570.000	13.01	37.73	37.67	37.75	50.82	74.00	-23.18 peak
6	p17355.000	14.77	43.26	37.56	32.19	52.66	68.20	-15.54 peak

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



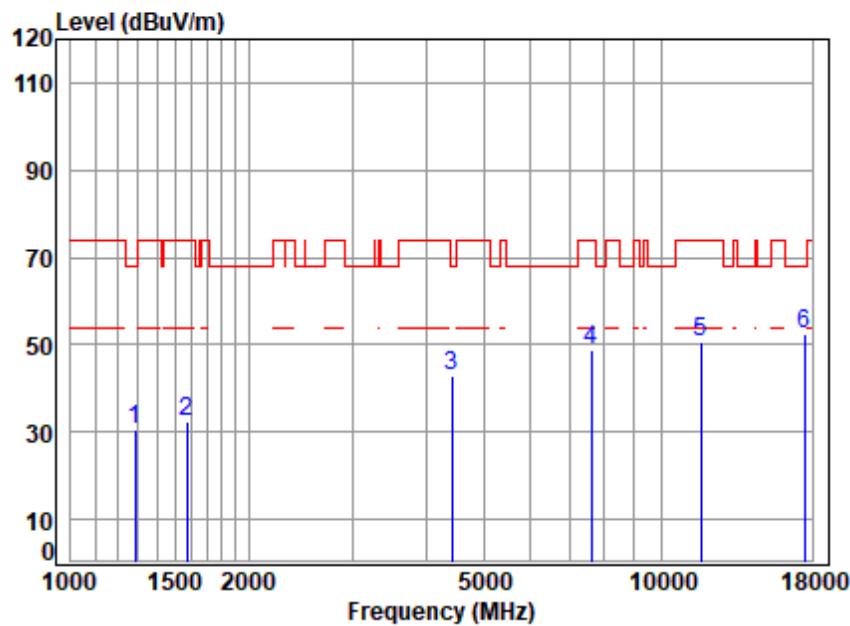
Site : chamber
 Condition: 3m VERTICAL
 Job No : 01162TL
 Mode : 5785 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1155.483	3.50	23.95	38.33	41.44	30.56	74.00	-43.44 peak
2	1507.470	4.07	26.83	38.39	39.35	31.86	74.00	-42.14 peak
3	4379.699	7.04	34.64	35.81	38.03	43.90	74.00	-30.10 peak
4	8764.146	11.51	36.96	37.37	38.68	49.78	68.20	-18.42 peak
5	11570.000	13.01	37.73	37.67	37.99	51.06	74.00	-22.94 peak
6	p17355.000	14.77	43.26	37.56	32.37	52.84	68.20	-15.36 peak

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



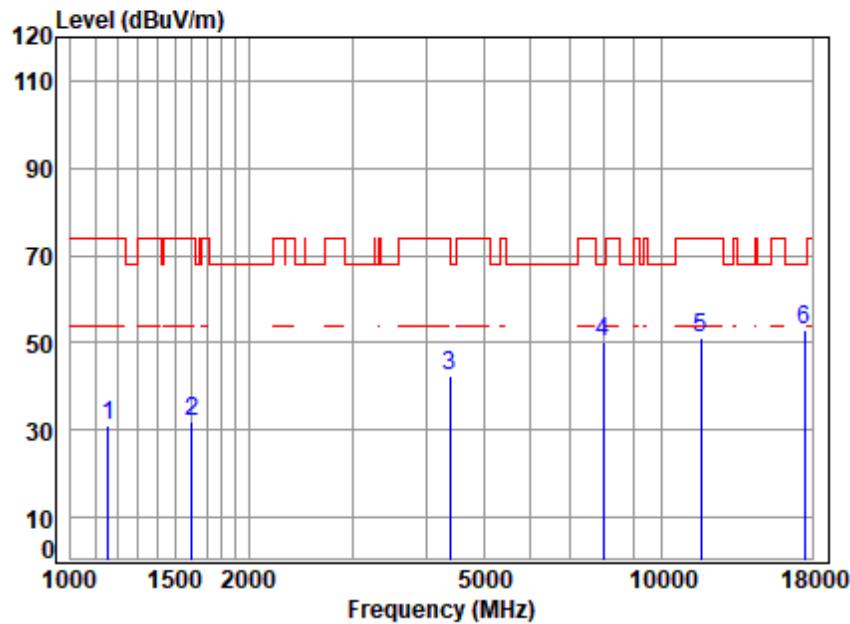
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01162TL
 Mode : 5825 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1285.904	3.73	24.88	38.35	40.54	30.80	68.20	-37.40 peak
2	1574.265	4.17	26.90	38.40	39.55	32.22	74.00	-41.78 peak
3	4417.841	7.07	34.59	35.78	37.05	42.93	68.20	-25.27 peak
4	7606.788	9.65	36.20	36.19	38.97	48.63	74.00	-25.37 peak
5	11650.000	13.03	37.80	37.65	37.62	50.80	74.00	-23.20 peak
6	p17475.000	14.84	43.40	37.58	31.90	52.56	68.20	-15.64 peak

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



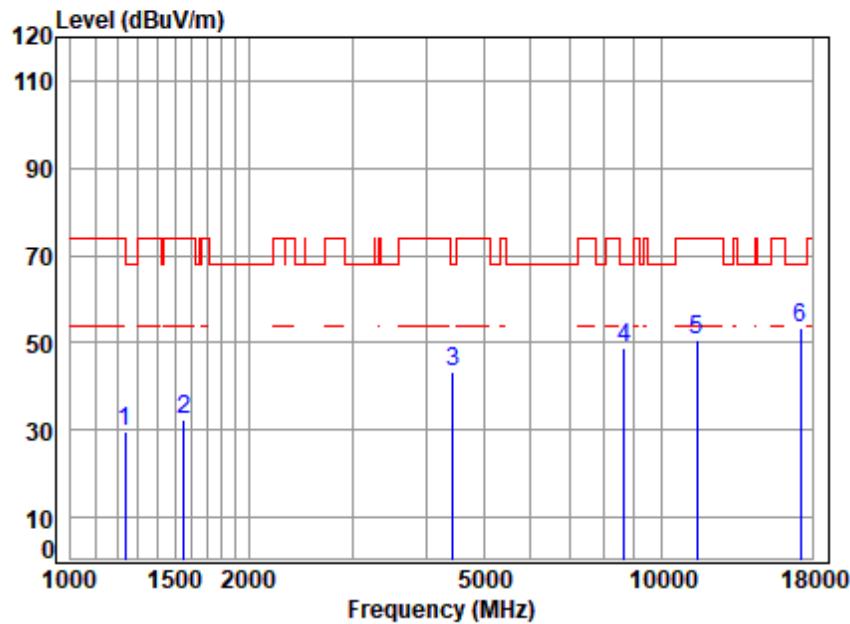
Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5825 TX RSE
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	
								dB	dB
1 1155.483	3.50	23.95	38.33	41.81	30.93	74.00	-43.07	peak	
2 1606.441	4.21	26.74	38.40	39.58	32.13	74.00	-41.87	peak	
3 4392.376	7.05	34.74	35.80	36.37	42.36	74.00	-31.64	peak	
4 7989.893	10.09	36.40	36.55	40.48	50.42	68.20	-17.78	peak	
5 11650.000	13.03	37.80	37.65	37.99	51.17	74.00	-22.83	peak	
6 p17475.000	14.84	43.40	37.58	32.07	52.73	68.20	-15.47	peak	

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5745 TX RSE
Note : 5G WIFI 11AC20

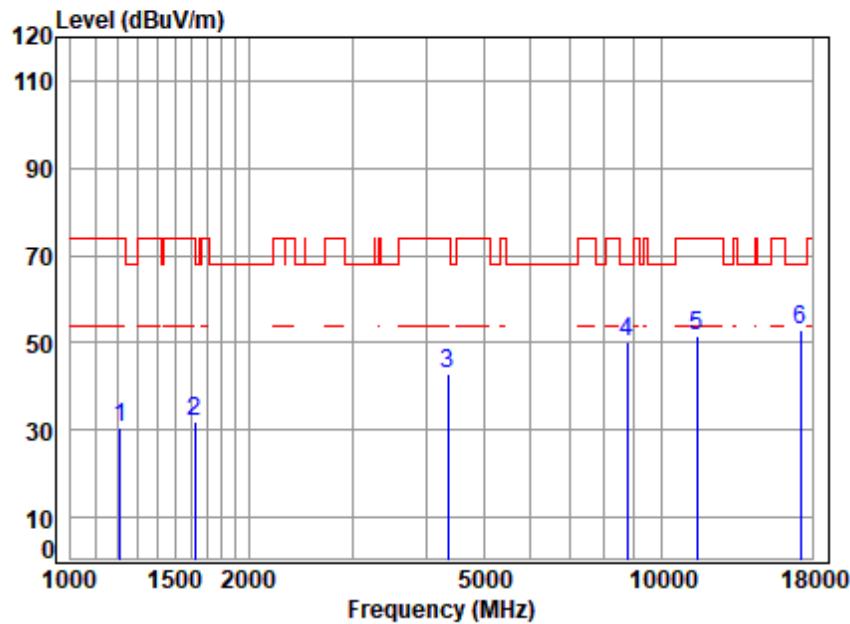
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1234.909	3.64	24.89	38.35	39.68	29.86	74.00	-44.14 peak
2	1551.677	4.13	26.99	38.40	39.61	32.33	74.00	-41.67 peak
3	4443.453	7.09	34.28	35.77	37.62	43.22	68.20	-24.98 peak
4	8663.404	11.33	36.90	37.27	38.07	49.03	68.20	-19.17 peak
5	11490.000	13.00	37.79	37.69	37.72	50.82	74.00	-23.18 peak
6	p17235.000	14.70	43.03	37.55	33.32	53.50	68.20	-14.70 peak

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



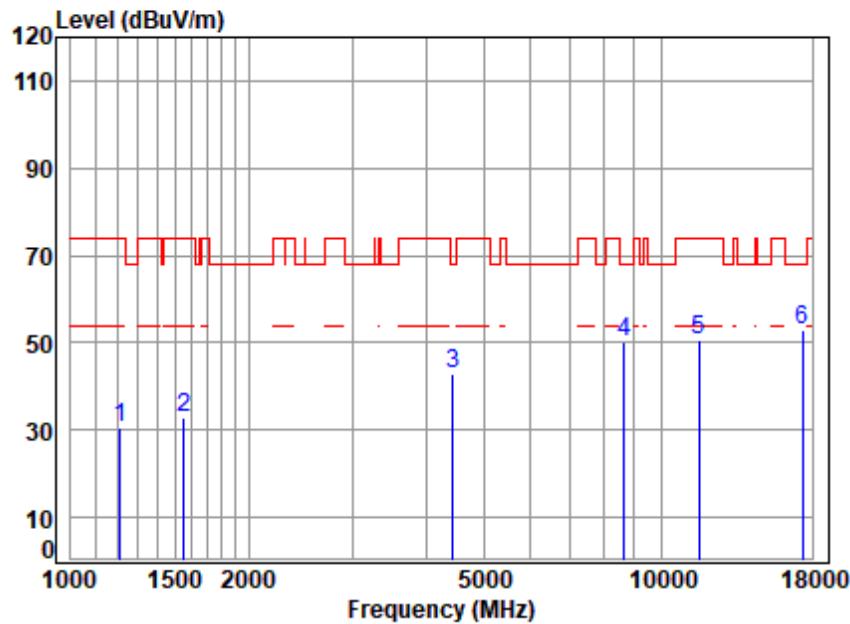
Site : chamber
 Condition: 3m VERTICAL
 Job No : 01162TL
 Mode : 5745 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1210.174	3.60	24.54	38.34	40.92	30.72	74.00	-43.28 peak
2	1620.431	4.23	26.60	38.40	39.63	32.06	74.00	-41.94 peak
3	4354.454	7.03	34.44	35.83	37.03	42.67	74.00	-31.33 peak
4	8738.852	11.47	36.90	37.35	39.35	50.37	68.20	-17.83 peak
5	11490.000	13.00	37.79	37.69	38.48	51.58	74.00	-22.42 peak
6	p17235.000	14.70	43.03	37.55	32.74	52.92	68.20	-15.28 peak

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



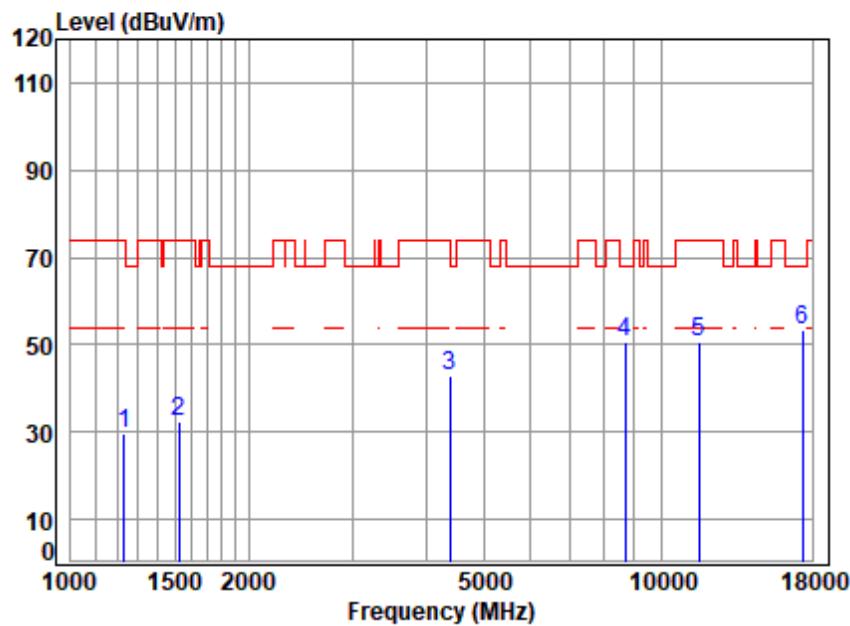
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01162TL
 Mode : 5785 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1213.677	3.61	24.59	38.34	40.61	30.47	74.00	-43.53 peak
2	1551.677	4.13	26.99	38.40	40.20	32.92	74.00	-41.08 peak
3	4430.628	7.08	34.43	35.77	36.97	42.71	68.20	-25.49 peak
4	8638.399	11.29	36.90	37.24	39.16	50.11	68.20	-18.09 peak
5	11570.000	13.01	37.73	37.67	37.48	50.55	74.00	-23.45 peak
6	p17355.000	14.77	43.26	37.56	32.60	53.07	68.20	-15.13 peak

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



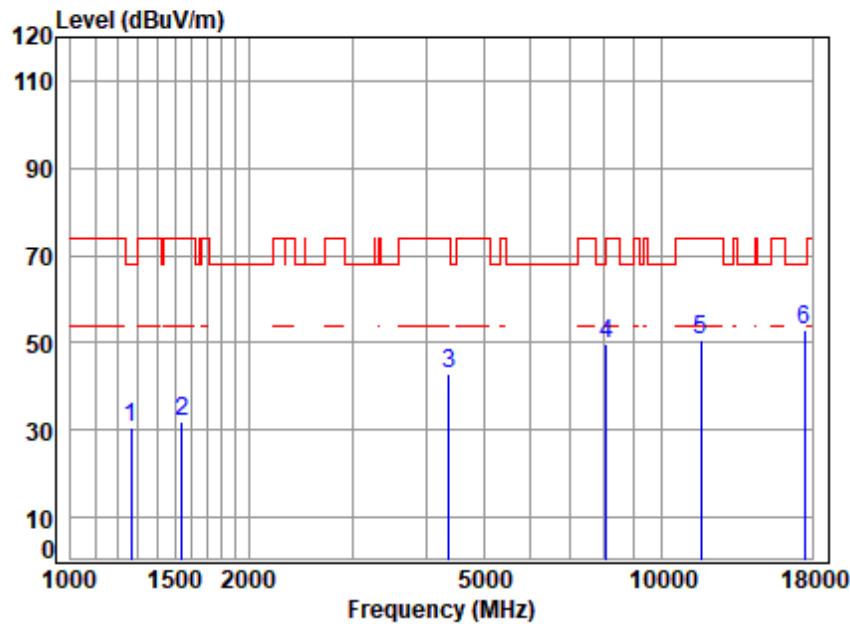
Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5785 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1231.345	3.64	24.84	38.35	39.44	29.57	74.00	-44.43 peak
2	1525.000	4.10	26.90	38.39	39.67	32.28	74.00	-41.72 peak
3	4379.699	7.04	34.64	35.81	37.05	42.92	74.00	-31.08 peak
4	8688.480	11.38	36.90	37.30	39.44	50.42	68.20	-17.78 peak
5	11570.000	13.01	37.73	37.67	37.73	50.80	74.00	-23.20 peak
6	p17355.000	14.77	43.26	37.56	32.70	53.17	68.20	-15.03 peak

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5825 TX RSE
Note : 5G WIFI 11AC20

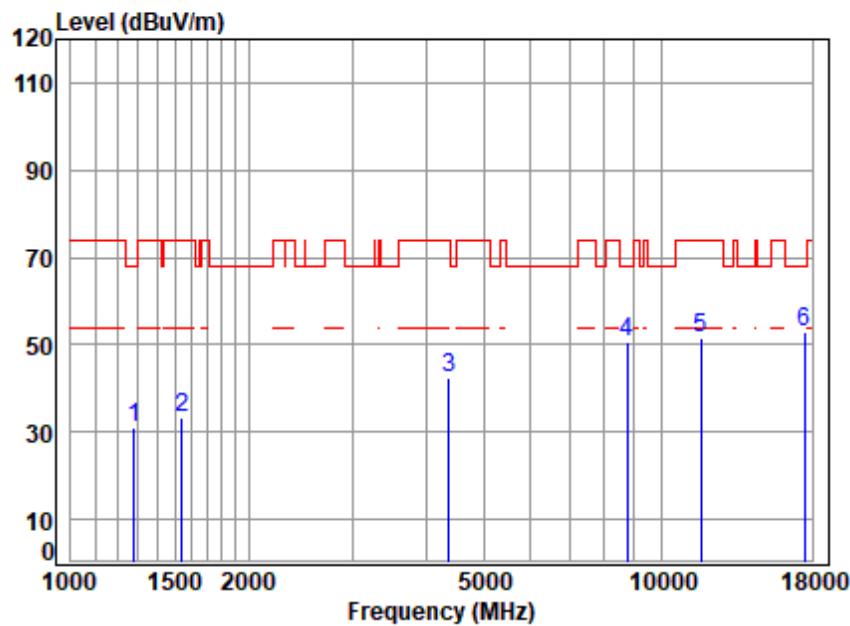
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1267.454	3.70	25.00	38.35	40.30	30.65	68.20	-37.55 peak
2	1542.733	4.12	26.97	38.39	39.31	32.01	74.00	-41.99 peak
3	4367.058	7.04	34.54	35.82	37.17	42.93	74.00	-31.07 peak
4	8082.804	10.26	36.47	36.65	39.45	49.53	74.00	-24.47 peak
5	11650.000	13.03	37.80	37.65	37.61	50.79	74.00	-23.21 peak
6	p17475.000	14.84	43.40	37.58	32.08	52.74	68.20	-15.46 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5825 TX RSE
Note : 5G WIFI 11AC20

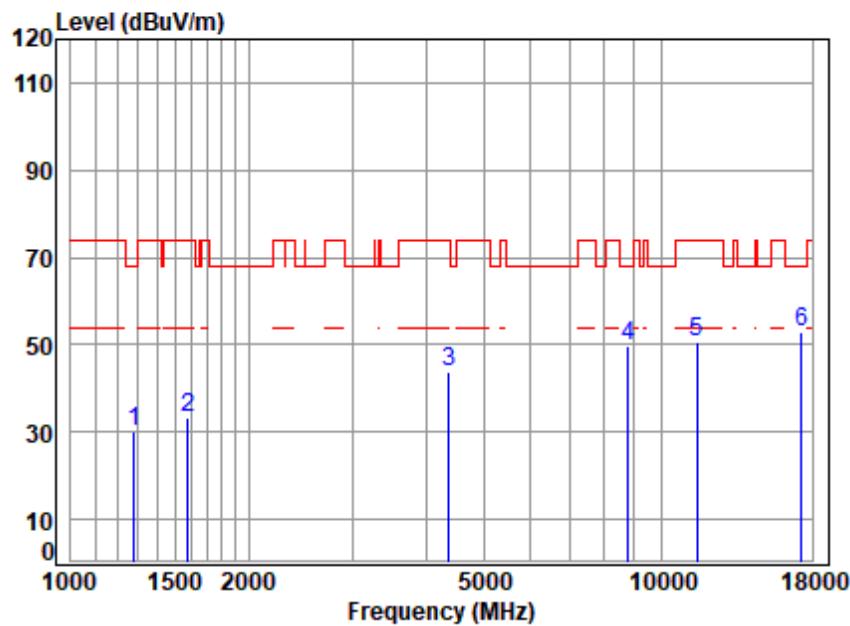
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1282.193	3.72	24.91	38.35	40.92	31.20	68.20	-37.00 peak
2	1542.733	4.12	26.97	38.39	40.46	33.16	74.00	-40.84 peak
3	4367.058	7.04	34.54	35.82	36.86	42.62	74.00	-31.38 peak
4	8738.852	11.47	36.90	37.35	39.55	50.57	68.20	-17.63 peak
5	11650.000	13.03	37.80	37.65	38.35	51.53	74.00	-22.47 peak
6	p17475.000	14.84	43.40	37.58	32.23	52.89	68.20	-15.31 peak

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



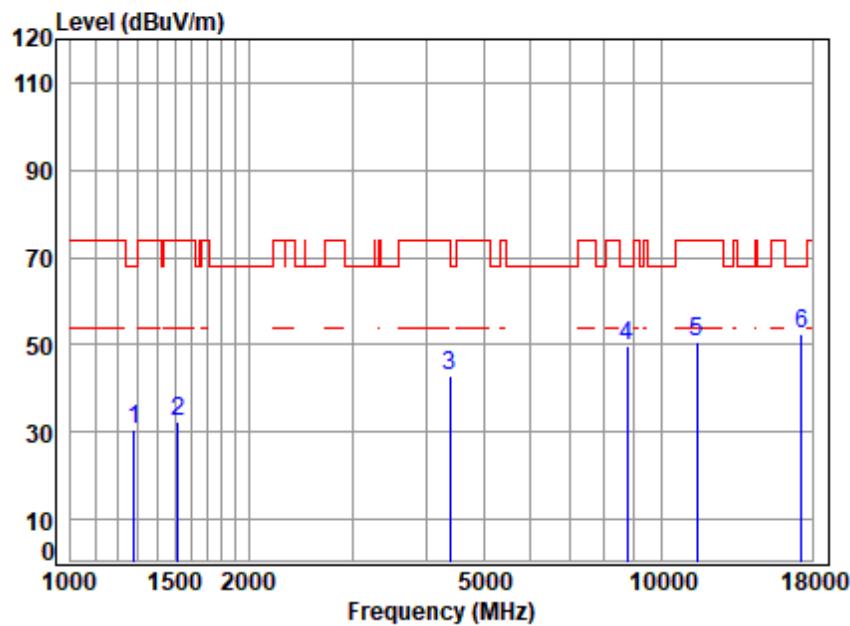
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01162TL
 Mode : 5755 TX RSE
 Note : 5G WIFI 11AC40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1278.492	3.72	24.93	38.35	40.01	30.31	68.20	-37.89 peak
2	1578.822	4.17	26.88	38.40	40.64	33.29	74.00	-40.71 peak
3	4367.058	7.04	34.54	35.82	37.82	43.58	74.00	-30.42 peak
4	8789.516	11.55	37.06	37.40	38.46	49.67	68.20	-18.53 peak
5	11510.000	13.00	37.79	37.69	37.46	50.56	74.00	-23.44 peak
6	p17265.000	14.72	43.06	37.55	32.92	53.15	68.20	-15.05 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 01162TL
Mode : 5755 TX RSE
Note : 5G WIFI 11AC40

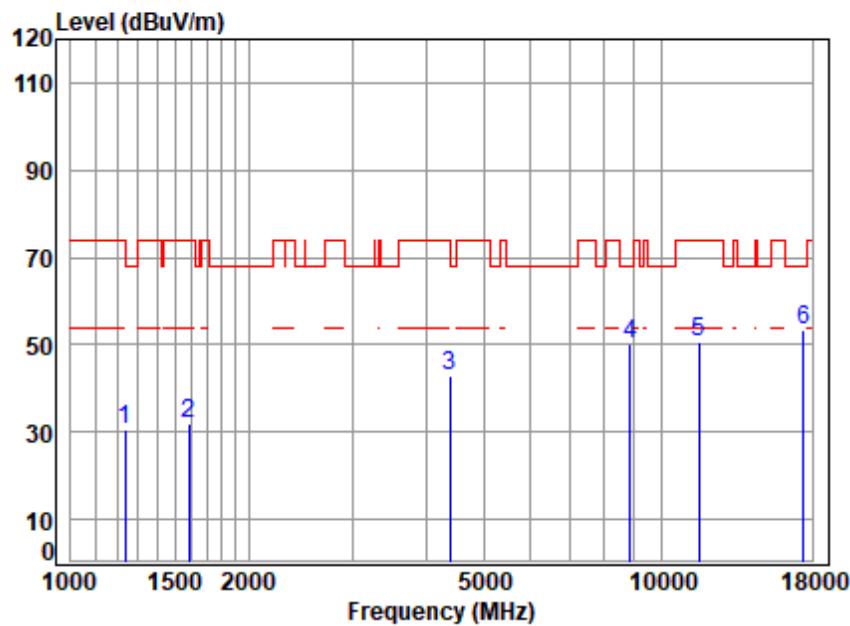
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1278.492	3.72	24.93	38.35	40.26	30.56	68.20	-37.64 peak
2	1516.210	4.08	26.86	38.39	39.80	32.35	74.00	-41.65 peak
3	4392.376	7.05	34.74	35.80	36.83	42.82	74.00	-31.18 peak
4	8764.146	11.51	36.96	37.37	38.83	49.93	68.20	-18.27 peak
5	11510.000	13.00	37.79	37.69	37.65	50.75	74.00	-23.25 peak
6	p17265.000	14.72	43.06	37.55	32.25	52.48	68.20	-15.72 peak

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5795 TX RSE
Note : 5G WIFI 11AC40

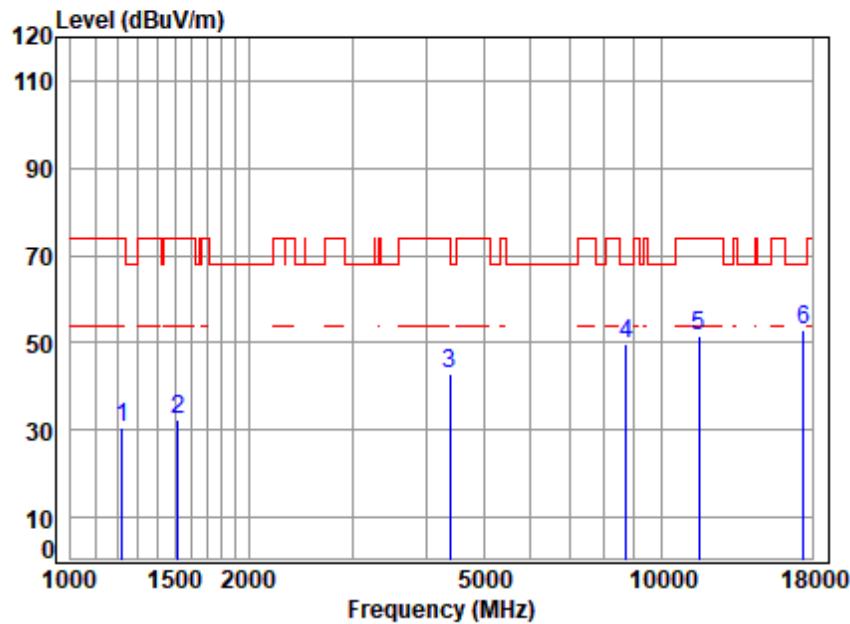
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1234.909	3.64	24.89	38.35	40.60	30.78	74.00	-43.22 peak
2	1583.392	4.18	26.87	38.40	39.40	32.05	74.00	-41.95 peak
3	4379.699	7.04	34.64	35.81	37.08	42.95	74.00	-31.05 peak
4	8840.473	11.64	37.18	37.45	38.90	50.27	68.20	-17.93 peak
5	11590.000	13.01	37.71	37.67	37.66	50.71	74.00	-23.29 peak
6	p17385.000	14.79	43.35	37.57	32.83	53.40	68.20	-14.80 peak

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



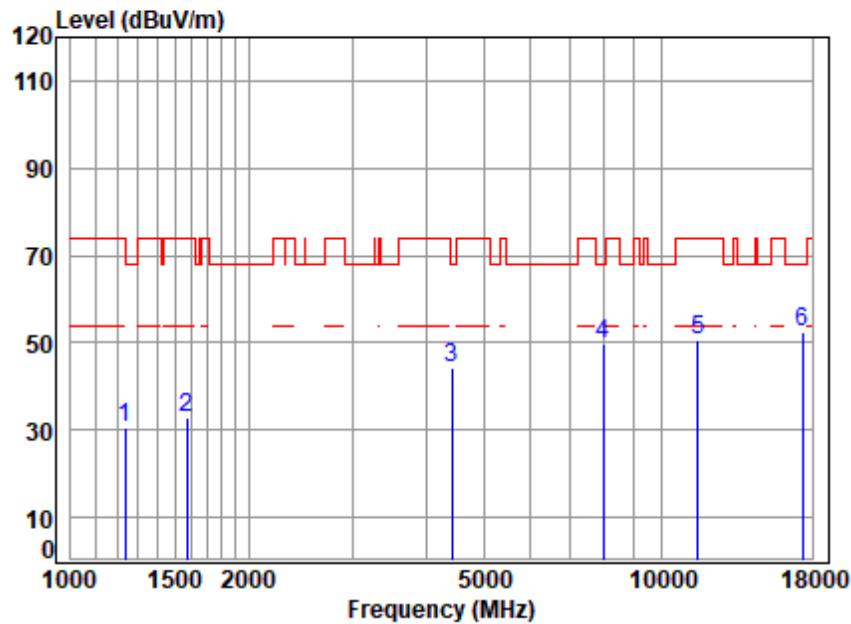
Site : chamber
 Condition: 3m VERTICAL
 Job No : 01162TL
 Mode : 5795 TX RSE
 Note : 5G WIFI 11AC40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1224.247	3.62	24.74	38.34	40.55	30.57	74.00	-43.43 peak
2	1516.210	4.08	26.86	38.39	39.91	32.46	74.00	-41.54 peak
3	4379.699	7.04	34.64	35.81	37.24	43.11	74.00	-30.89 peak
4	8713.630	11.42	36.90	37.32	38.83	49.83	68.20	-18.37 peak
5	11590.000	13.01	37.71	37.67	38.35	51.40	74.00	-22.60 peak
6	p17385.000	14.79	43.35	37.57	32.17	52.74	68.20	-15.46 peak

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01162TL
Mode : 5775 TX RSE
Note : 5G WIFI 11AC80

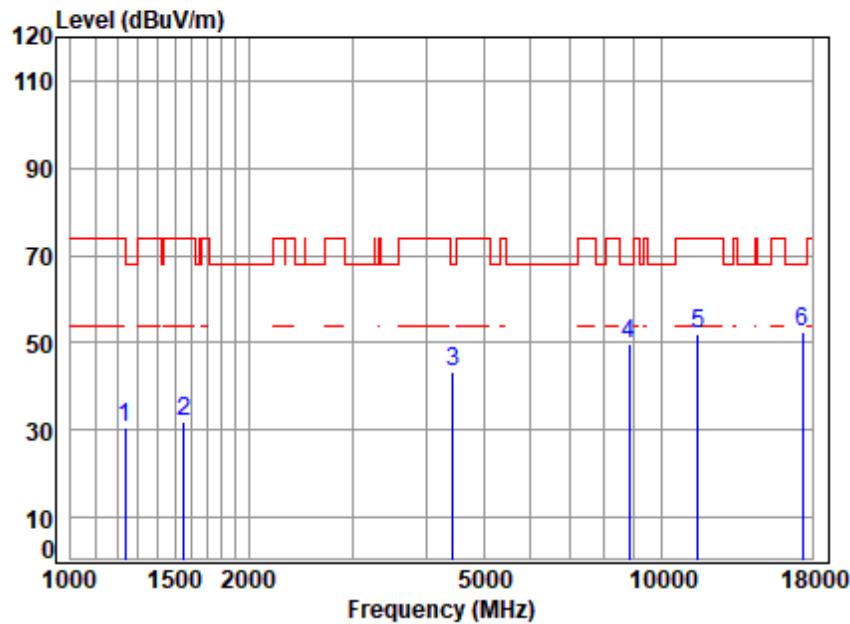
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1234.909	3.64	24.89	38.35	40.52	30.70	74.00	-43.30 peak
2	1574.265	4.17	26.90	38.40	40.02	32.69	74.00	-41.31 peak
3	4417.841	7.07	34.59	35.78	38.59	44.47	68.20	-23.73 peak
4	7989.893	10.09	36.40	36.55	39.62	49.56	68.20	-18.64 peak
5	11550.000	13.01	37.75	37.68	37.77	50.85	74.00	-23.15 peak
6	p17325.000	14.76	43.17	37.56	31.96	52.33	68.20	-15.87 peak

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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01162TL
 Mode : 5775 TX RSE
 Note : 5G WIFI 11AC80

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1234.909	3.64	24.89	38.35	40.47	30.65	74.00	-43.35 peak
2	1556.169	4.14	26.98	38.40	39.39	32.11	74.00	-41.89 peak
3	4443.453	7.09	34.28	35.77	37.70	43.30	68.20	-24.90 peak
4	8814.957	11.60	37.13	37.42	38.64	49.95	68.20	-18.25 peak
5	11550.000	13.01	37.75	37.68	38.74	51.82	74.00	-22.18 peak
6	p17325.000	14.76	43.17	37.56	32.28	52.65	68.20	-15.55 peak

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7.11 Frequency Stability

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

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C Humidity: 38.2 % RH Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

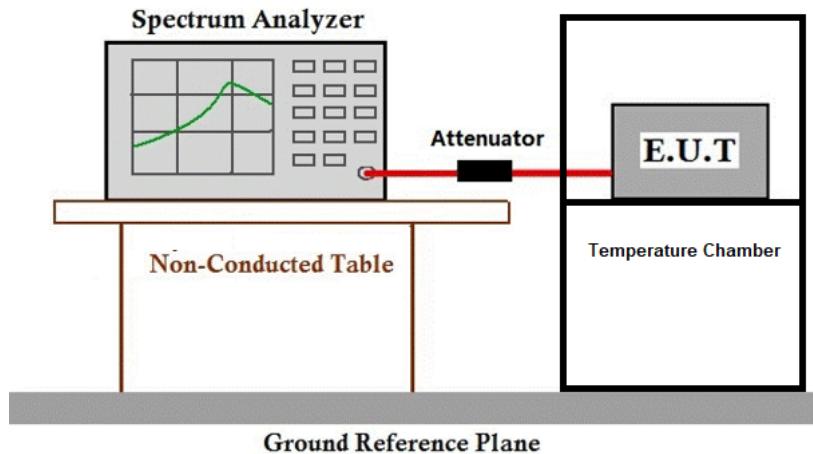
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report.
Final test	03	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.
Final test	04	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report.
Final test	05	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.

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7.11.3 Test Setup Diagram**7.11.4 Measurement Procedure and Data**

Please Refer to Appendix for Details

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2404001162TL

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2404001162TL

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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	MIMO	5180	/	/	1.397	1.453	96.15	0.17	0.03
		5200	/	/	1.398	1.454	96.15	0.17	0.03
		5240	/	/	1.398	1.454	96.15	0.17	0.07
		5260	/	/	1.397	1.453	96.15	0.17	0.07
		5300	/	/	1.397	1.453	96.15	0.17	0.03
		5320	/	/	1.397	1.453	96.15	0.17	0.03
		5500	/	/	1.396	1.452	96.14	0.17	0.07
		5580	/	/	1.396	1.453	96.08	0.17	0.03
		5700	/	/	1.398	1.454	96.15	0.17	0.03
		5745	/	/	1.396	1.453	96.08	0.17	0.03
		5785	/	/	1.395	1.452	96.07	0.17	0.03
		5825	/	/	1.396	1.452	96.14	0.17	0.00
802.11n (HT20)	MIMO	5180	/	/	1.309	1.365	95.90	0.18	0.03
		5200	/	/	1.309	1.365	95.90	0.18	0.03
		5240	/	/	1.309	1.365	95.90	0.18	0.03
		5260	/	/	1.309	1.365	95.90	0.18	0.04
		5300	/	/	1.309	1.365	95.90	0.18	0.03
		5320	/	/	1.309	1.365	95.90	0.18	0.03
		5500	/	/	1.309	1.365	95.90	0.18	0.00
		5580	/	/	1.309	1.365	95.90	0.18	0.03
		5700	/	/	1.309	1.365	95.90	0.18	0.00
		5745	/	/	1.309	1.365	95.90	0.18	0.03
		5785	/	/	1.309	1.365	95.90	0.18	0.03
		5825	/	/	1.309	1.365	95.90	0.18	0.03
802.11n (HT40)	MIMO	5190	/	/	0.648	0.705	91.91	0.37	0.06
		5230	/	/	0.649	0.705	92.06	0.36	0.03
		5270	/	/	0.648	0.704	92.05	0.36	0.07
		5310	/	/	0.649	0.705	92.06	0.36	0.03

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		5510	/	/	0.648	0.705	91.91	0.37	0.07
		5550	/	/	0.648	0.704	92.05	0.36	0.04
		5670	/	/	0.648	0.704	92.05	0.36	0.07
		5755	/	/	0.649	0.705	92.06	0.36	0.03
		5795	/	/	0.649	0.705	92.06	0.36	0.03
802.11ac (VHT20)	MIMO	5180	/	/	0.483	0.537	89.94	0.46	0.06
		5200	/	/	0.480	0.537	89.39	0.49	0.03
		5240	/	/	0.483	0.537	89.94	0.46	0.09
		5260	/	/	0.481	0.537	89.57	0.48	0.03
		5300	/	/	0.480	0.537	89.39	0.49	0.03
		5320	/	/	0.484	0.537	90.13	0.45	0.03
		5500	/	/	0.483	0.537	89.94	0.46	0.09
		5580	/	/	0.480	0.537	89.39	0.49	0.09
		5700	/	/	0.483	0.537	89.94	0.46	0.06
		5745	/	/	0.480	0.536	89.55	0.48	0.07
		5785	/	/	0.480	0.537	89.39	0.49	0.06
		5825	/	/	0.480	0.537	89.39	0.49	0.06
802.11ac (VHT40)	MIMO	5190	/	/	0.261	0.317	82.33	0.84	0.06
		5230	/	/	0.261	0.317	82.33	0.84	0.06
		5270	/	/	0.260	0.317	82.02	0.86	0.06
		5310	/	/	0.263	0.317	82.97	0.81	0.08
		5510	/	/	0.263	0.317	82.97	0.81	0.06
		5550	/	/	0.000	0.056	0.00	0.00	82.06
		5670	/	/	0.263	0.317	82.97	0.81	0.06
		5755	/	/	0.260	0.317	82.02	0.86	0.12
		5795	/	/	0.260	0.317	82.02	0.86	0.09
		5210	/	/	0.241	0.296	81.42	0.89	0.03
802.11ac (VHT80)	MIMO	5290	/	/	0.241	0.296	81.42	0.89	0.04
		5530	/	/	0.243	0.296	82.09	0.86	0.10
		5610	/	/	0.240	0.297	80.81	0.93	0.10
		5775	/	/	0.243	0.297	81.82	0.87	0.09
		5570	/	/	0.103	0.151	68.21	1.66	0.21
802.11ac (VHT160)	MIMO	5250	/	/	0.101	0.151	66.89	1.75	0.09
		5180	RU242	Left	0.429	0.485	88.45	0.53	0.06
802.11ax (HEW20)	MIMO	5200	RU242	Left	0.429	0.486	88.27	0.54	0.10
		5240	RU242	Left	0.430	0.486	88.48	0.53	0.07
		5260	RU242	Left	0.432	0.486	88.89	0.51	0.03
		5300	RU242	Left	0.430	0.486	88.48	0.53	0.06
		5320	RU242	Left	0.430	0.486	88.48	0.53	0.10
		5500	RU242	Left	0.432	0.486	88.89	0.51	0.04

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	MIMO	5580	RU242	Left	0.429	0.485	88.45	0.53	0.06
		5700	RU242	Left	0.432	0.486	88.89	0.51	0.03
		5745	RU242	Left	0.429	0.486	88.27	0.54	0.07
		5785	RU242	Left	0.429	0.486	88.27	0.54	0.03
		5825	RU242	Left	0.430	0.486	88.48	0.53	0.06
802.11ax (HEW40)	MIMO	5190	RU484	Left	0.426	0.481	88.57	0.53	0.07
		5230	RU484	Left	0.428	0.482	88.80	0.52	0.07
		5270	RU484	Left	0.426	0.482	88.38	0.54	0.03
		5310	RU484	Left	0.426	0.481	88.57	0.53	0.00
		5510	RU484	Left	0.426	0.482	88.38	0.54	0.04
		5550	RU484	Left	0.428	0.482	88.80	0.52	0.10
		5670	RU484	Left	0.426	0.482	88.38	0.54	0.07
		5755	RU484	Left	0.425	0.482	88.17	0.55	0.07
		5795	RU484	Left	0.426	0.481	88.57	0.53	0.04
802.11ax (HEW80)	MIMO	5210	RU996	Left	0.259	0.315	82.22	0.85	0.04
		5290	RU996	Left	0.258	0.314	82.17	0.85	0.03
		5530	RU996	Left	0.258	0.314	82.17	0.85	0.03
		5610	RU996	Left	0.260	0.314	82.80	0.82	0.10
		5775	RU996	Left	0.258	0.315	81.90	0.87	0.07
802.11ax (HEW160)	MIMO	5570	2xRU996	Left	0.185	0.235	78.72	1.04	0.03
		5250	2xRU996	Left	0.187	0.235	79.57	0.99	0.10

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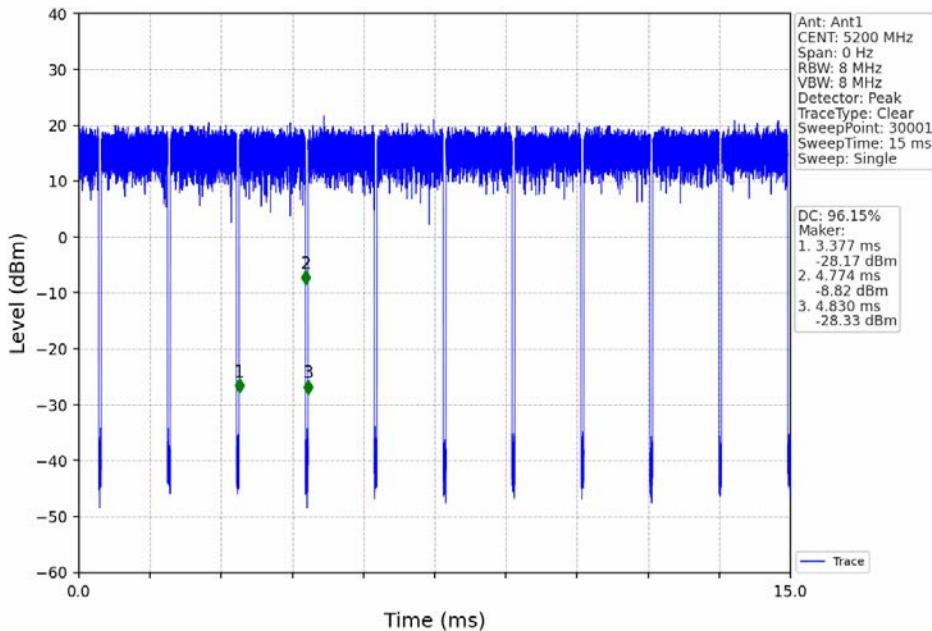
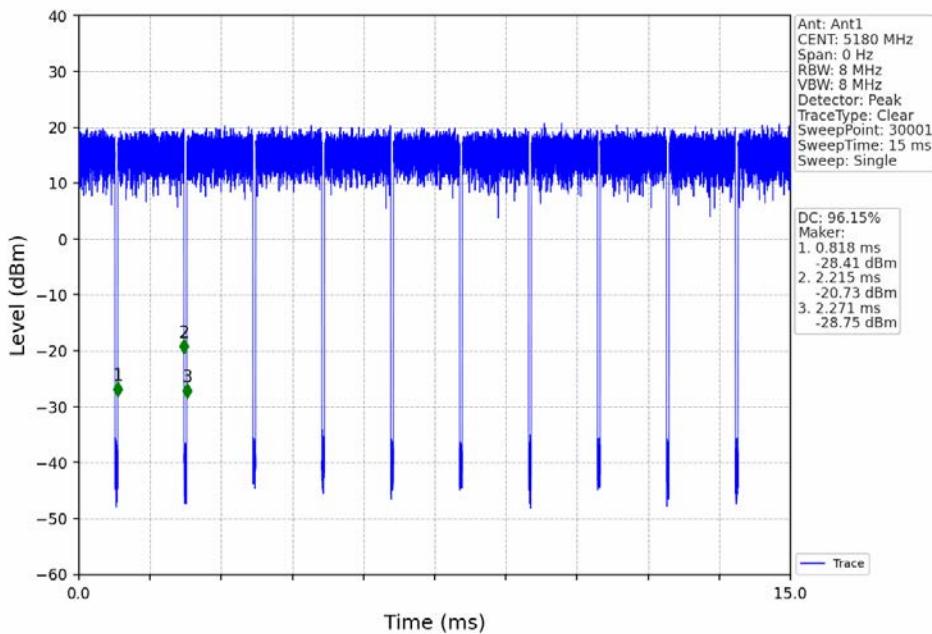
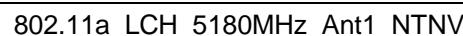
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Shenzhen Branch No. 10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057

t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn

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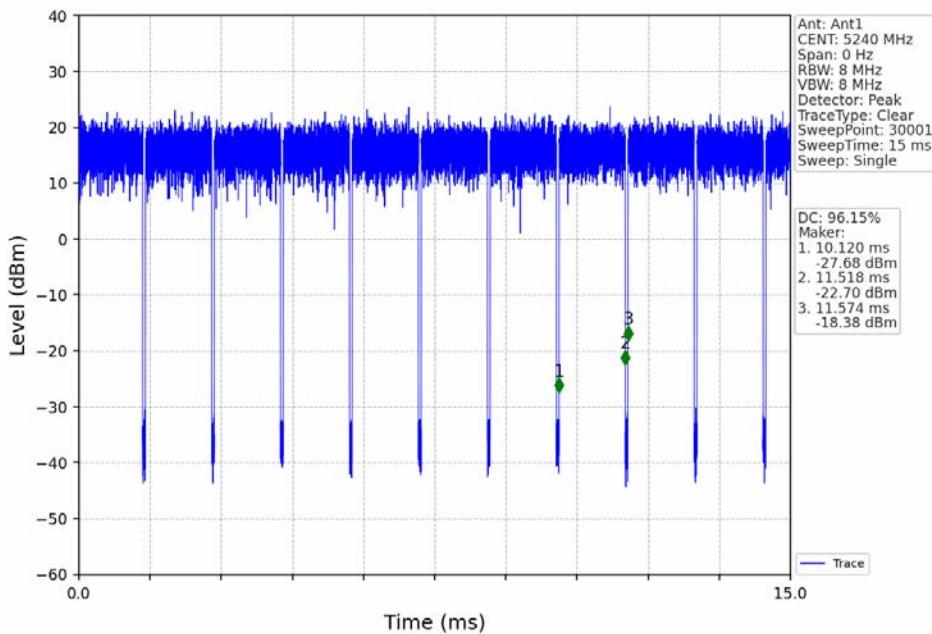
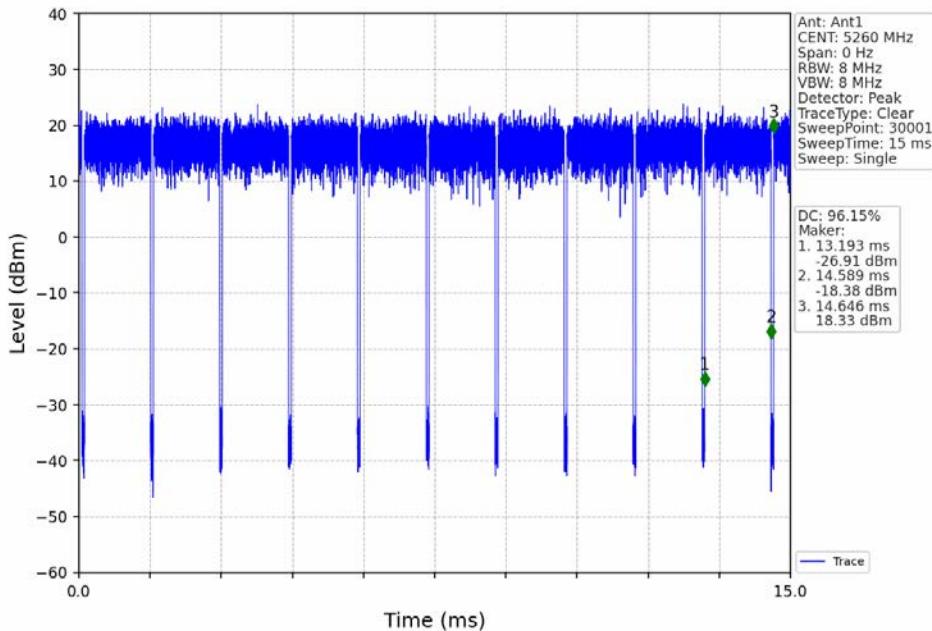
1.1.2 Test Graph



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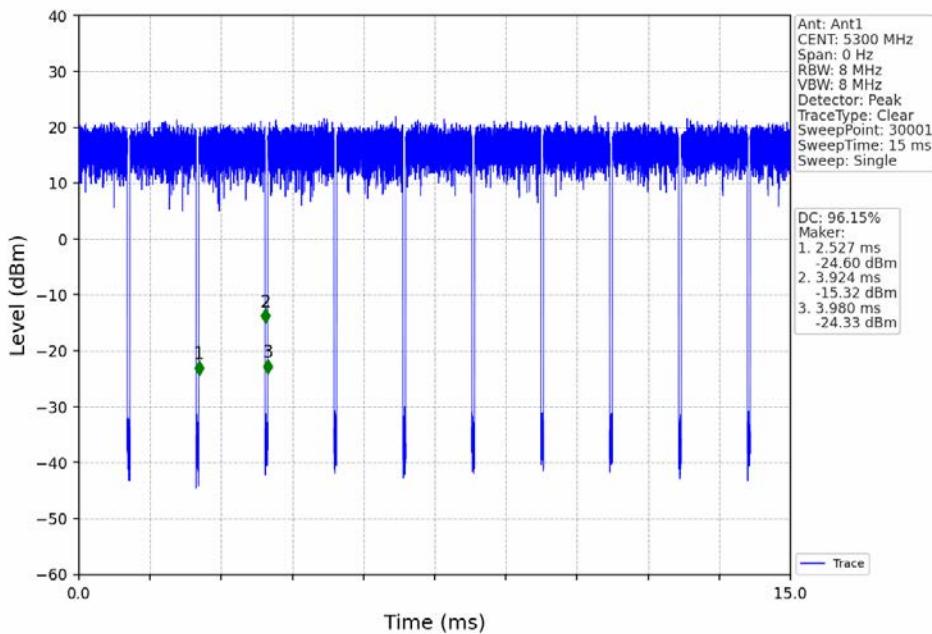
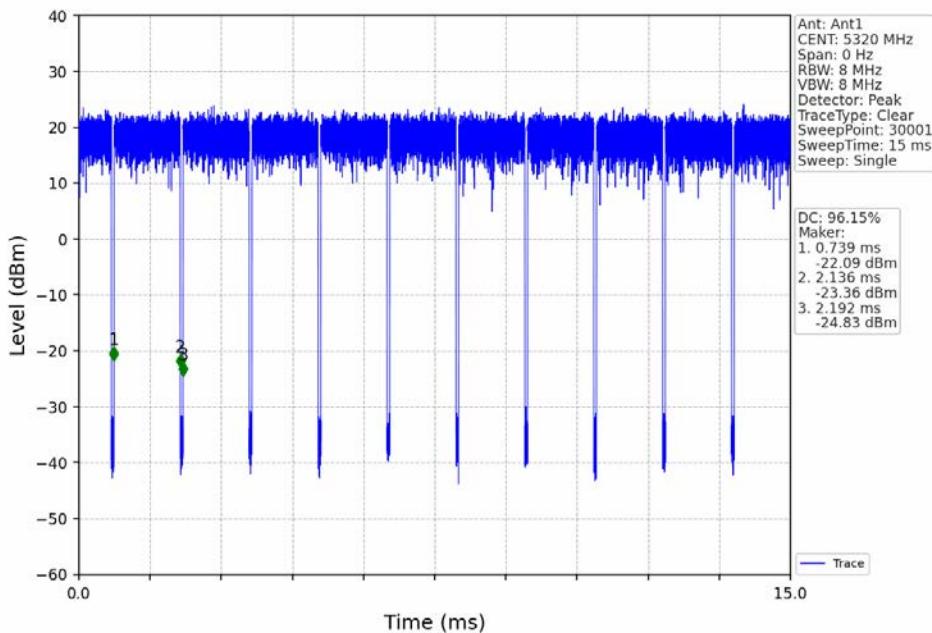
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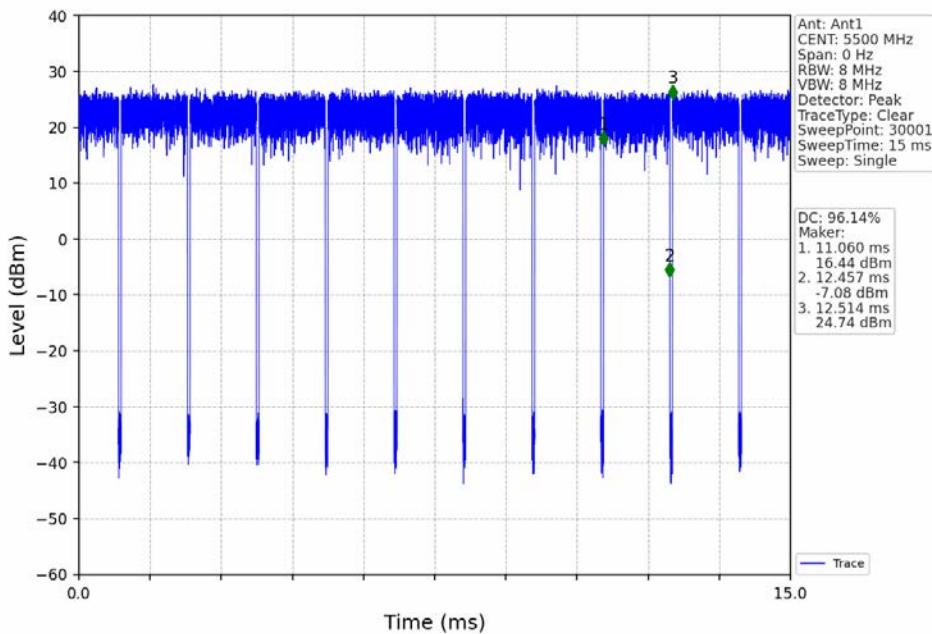
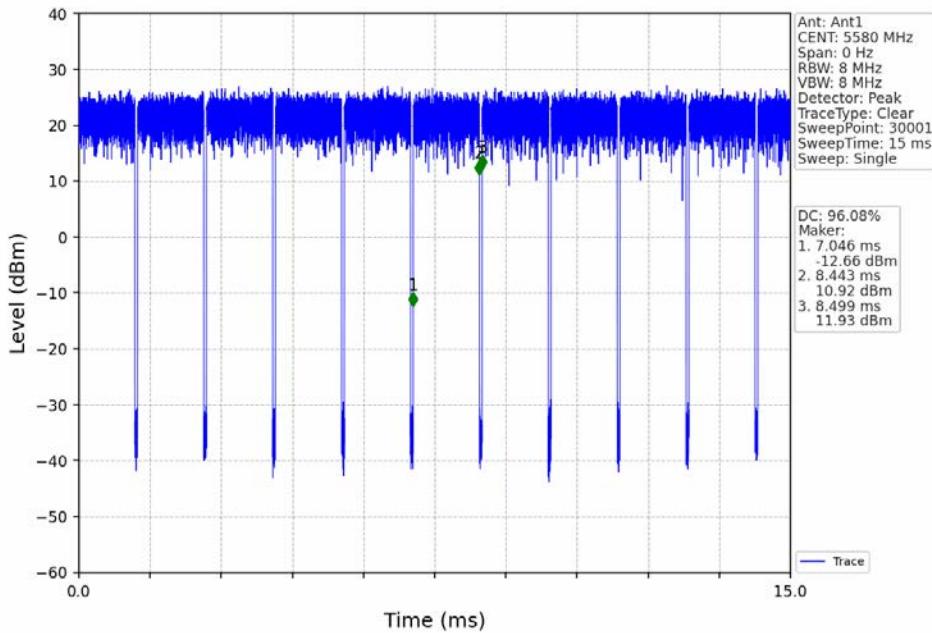


802.11a_HCH_5240MHz_Ant1_NTNV**802.11a_LCH_5260MHz_Ant1_NTNV**

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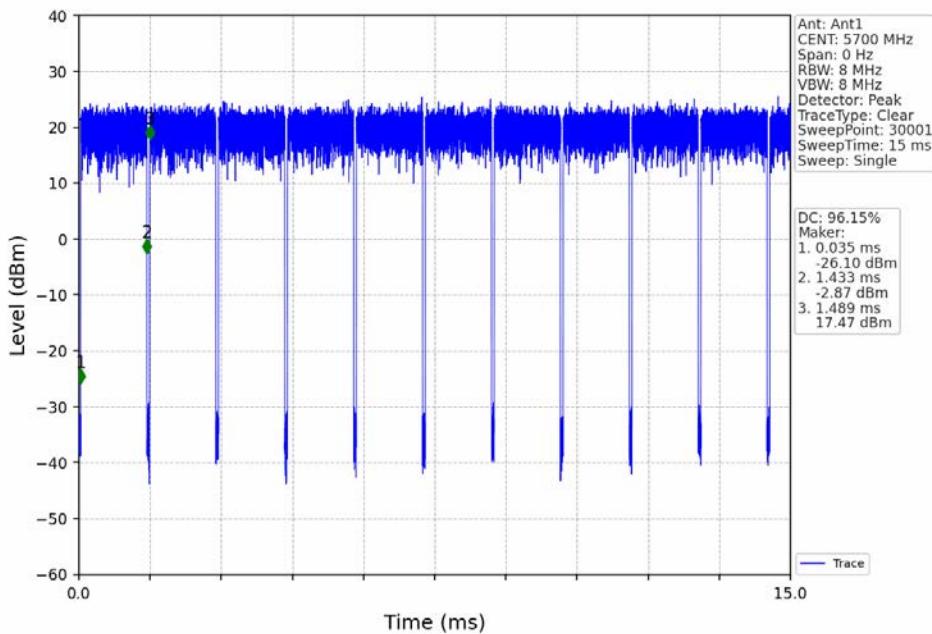
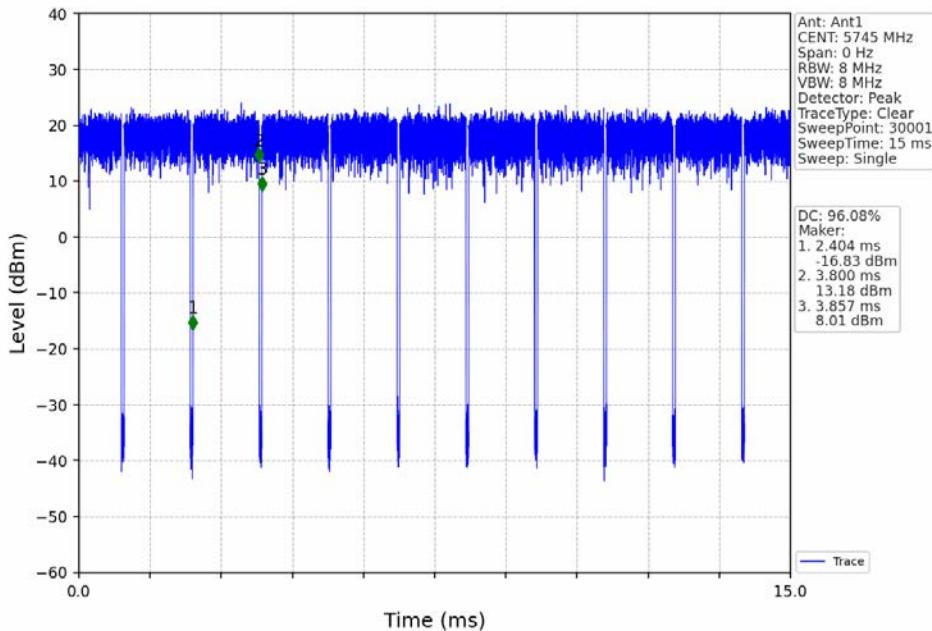
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802.11a_MCH_5300MHz_Ant1_NTNV**802.11a_HCH_5320MHz_Ant1_NTNV**

802.11a_LCH_5500MHz_Ant1_NTNV**802.11a_MCH_5580MHz_Ant1_NTNV**

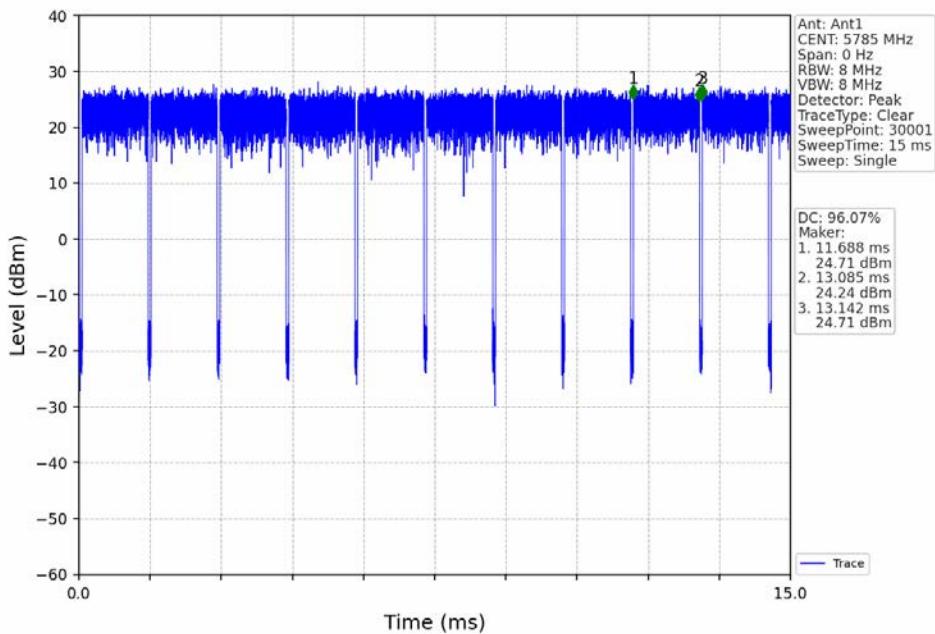
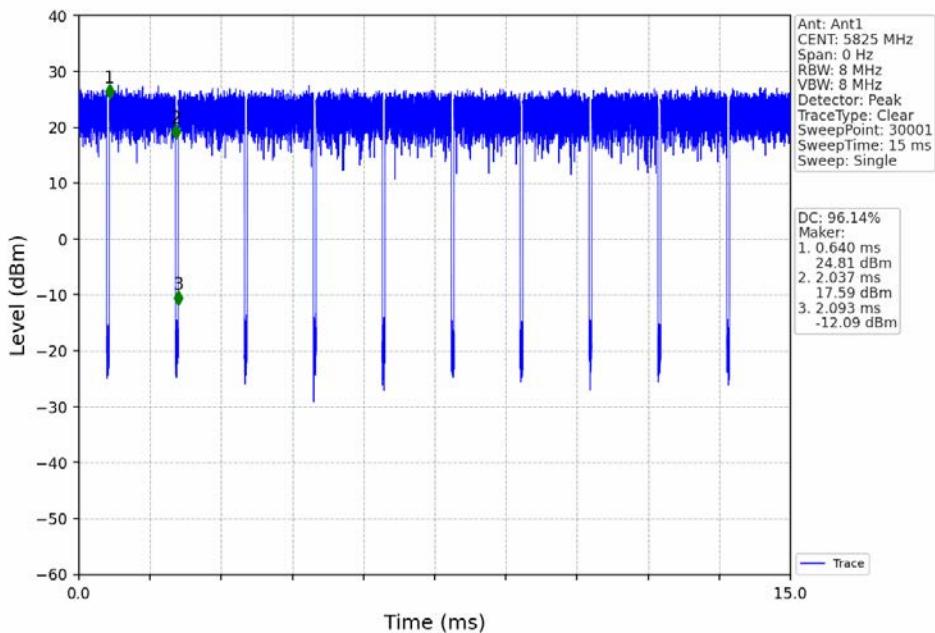
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802.11a_HCH_5700MHz_Ant1_NTNV**802.11a_LCH_5745MHz_Ant1_NTNV**

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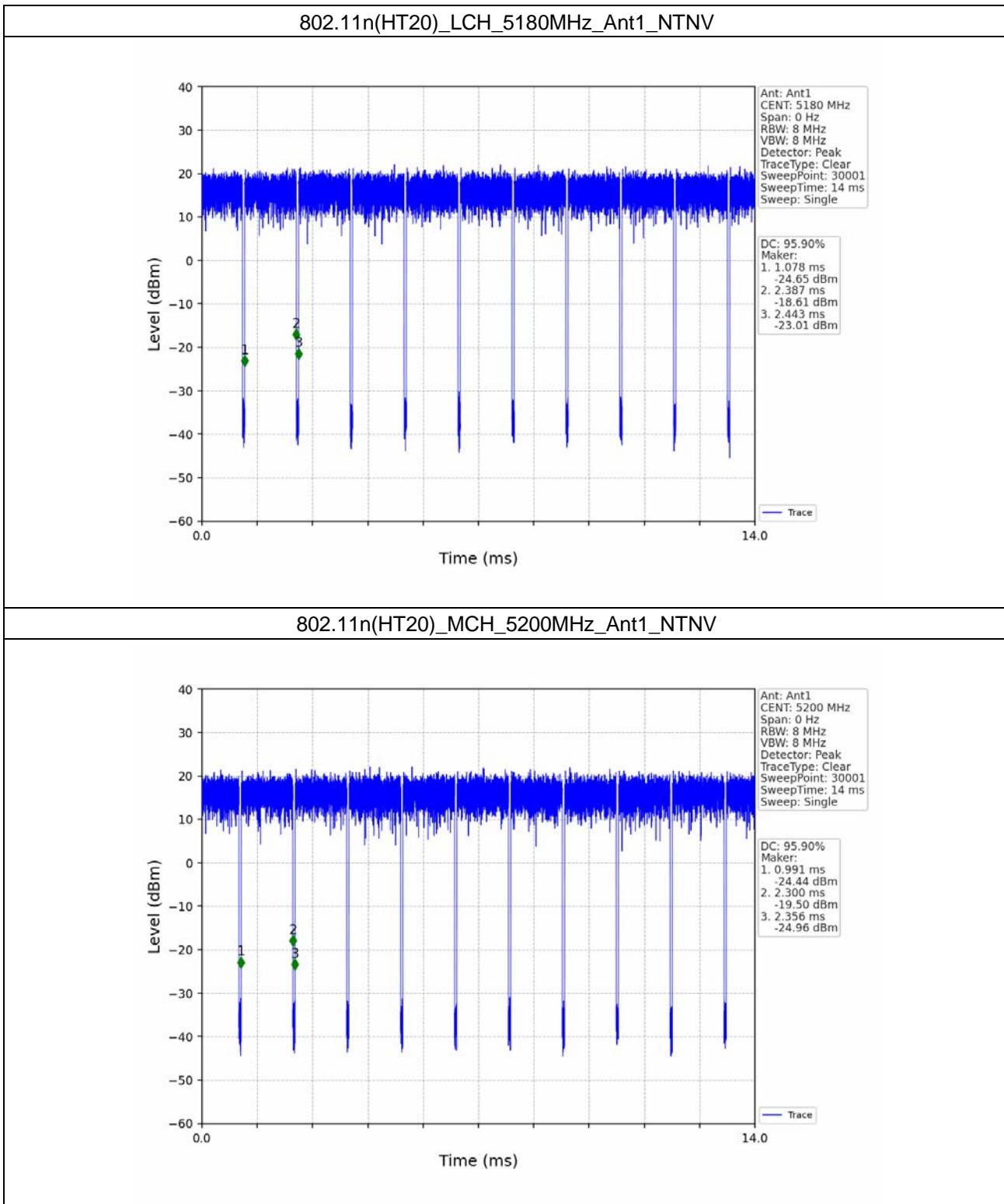
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802.11a_MCH_5785MHz_Ant1_NTNV**802.11a_HCH_5825MHz_Ant1_NTNV**

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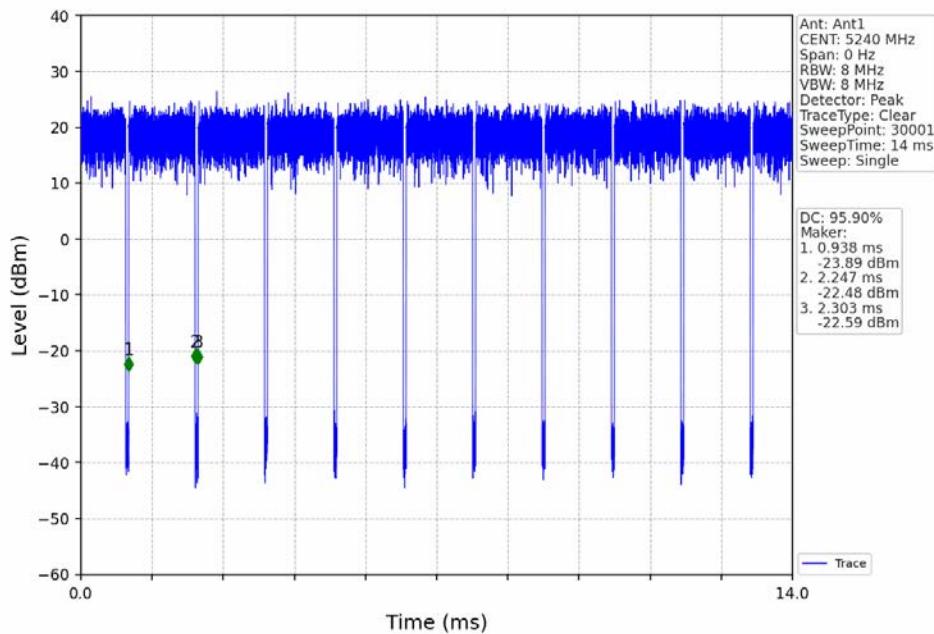
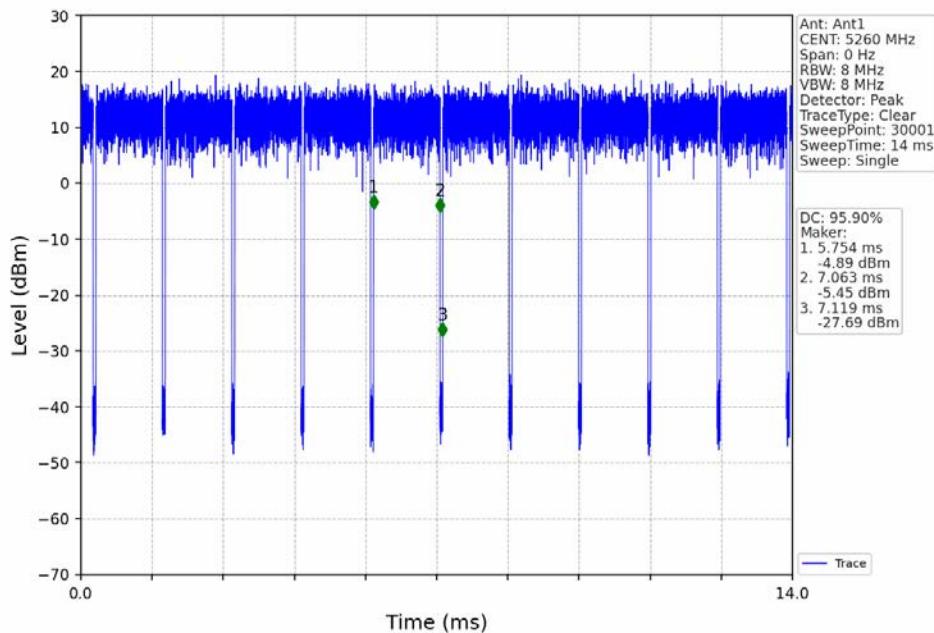
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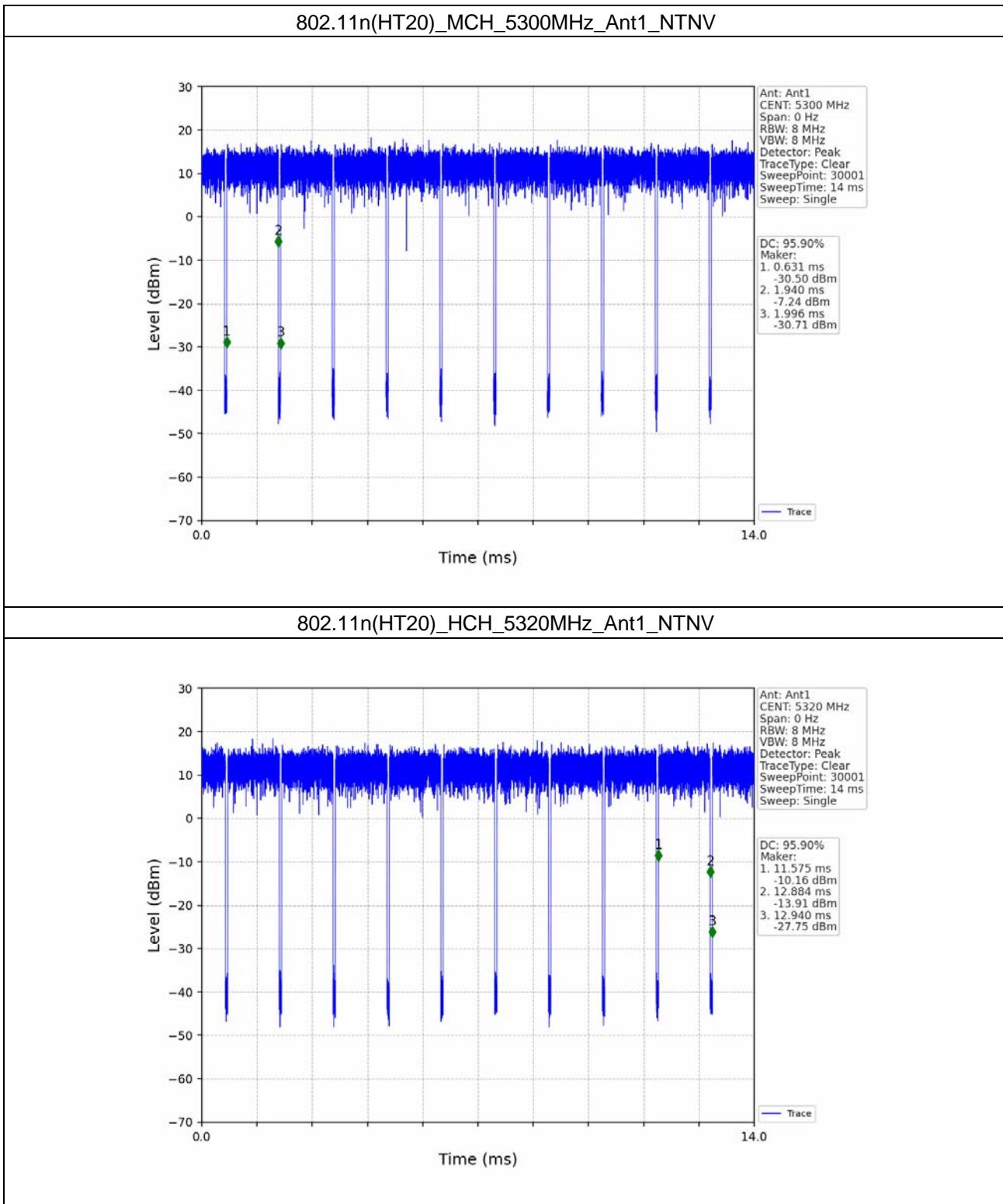
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV**802.11n(HT20)_LCH_5260MHz_Ant1_NTNV**

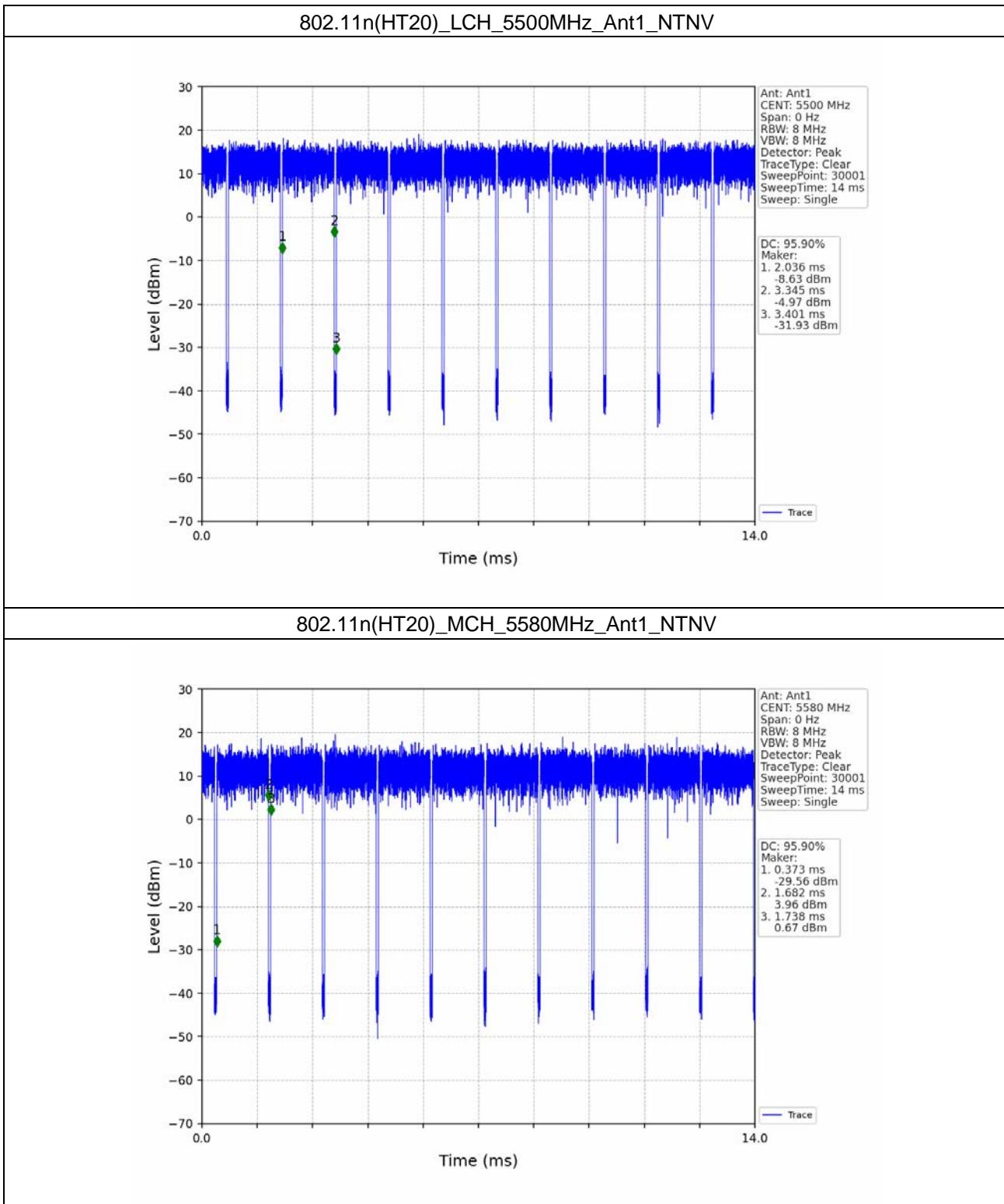
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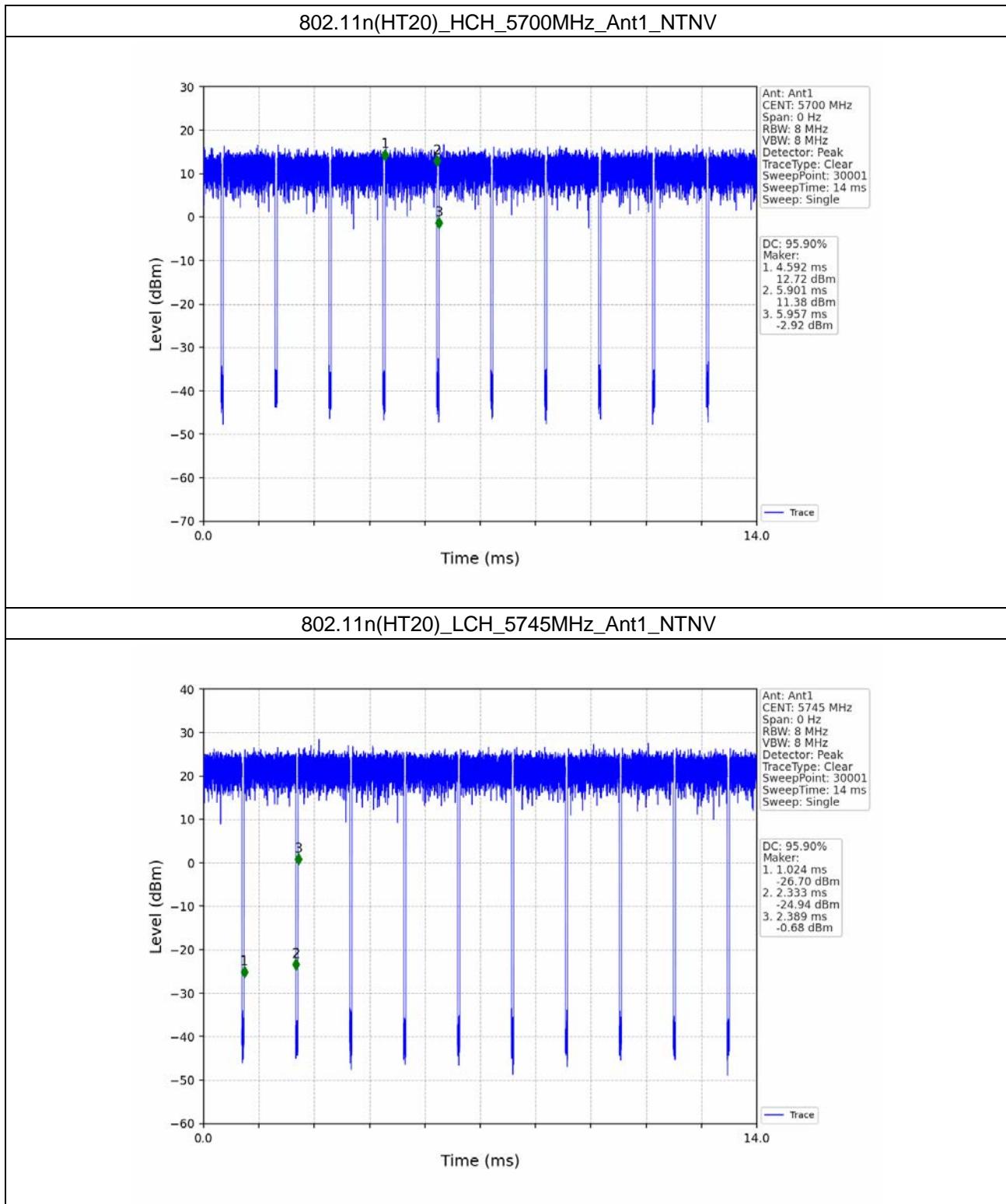
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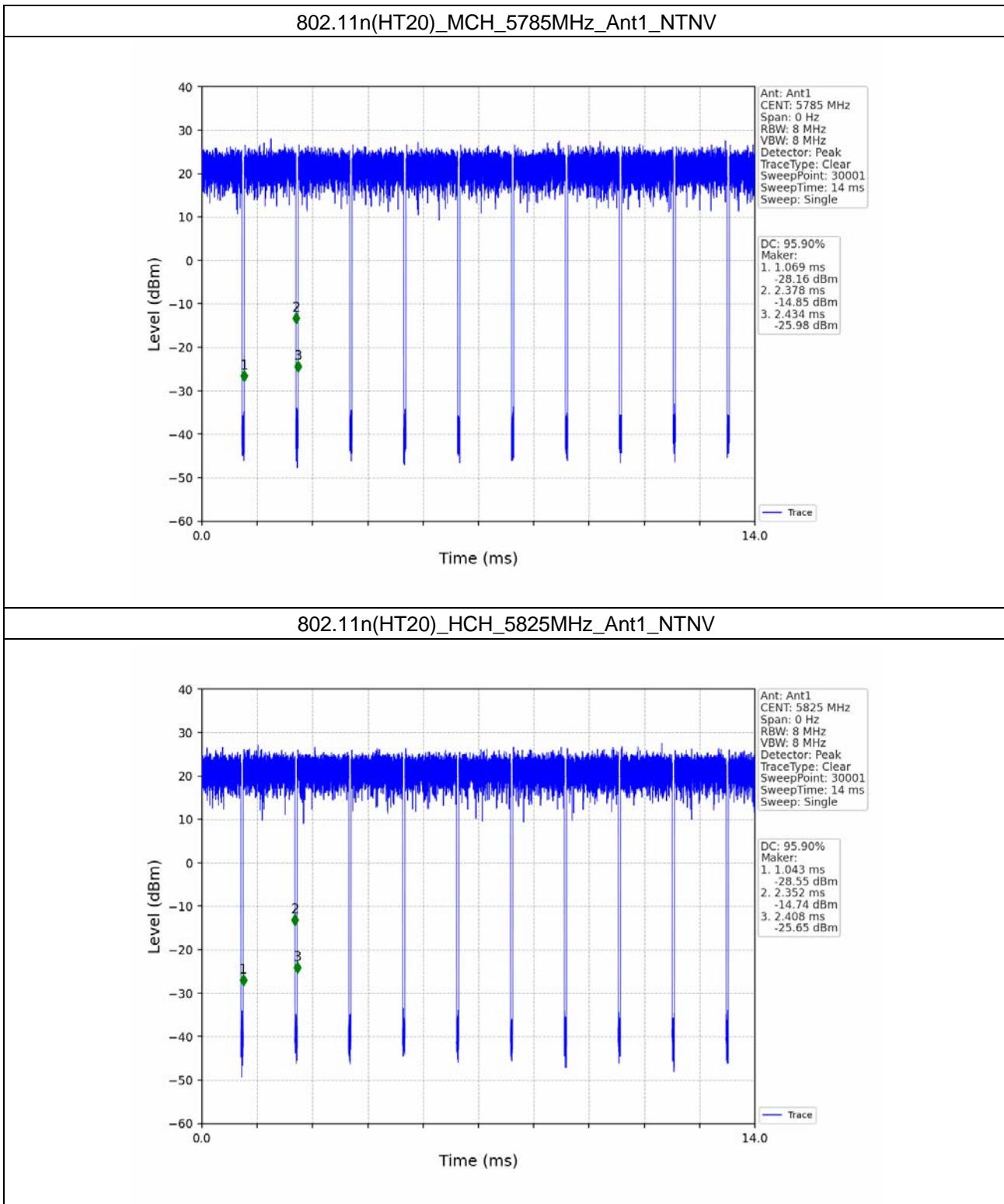
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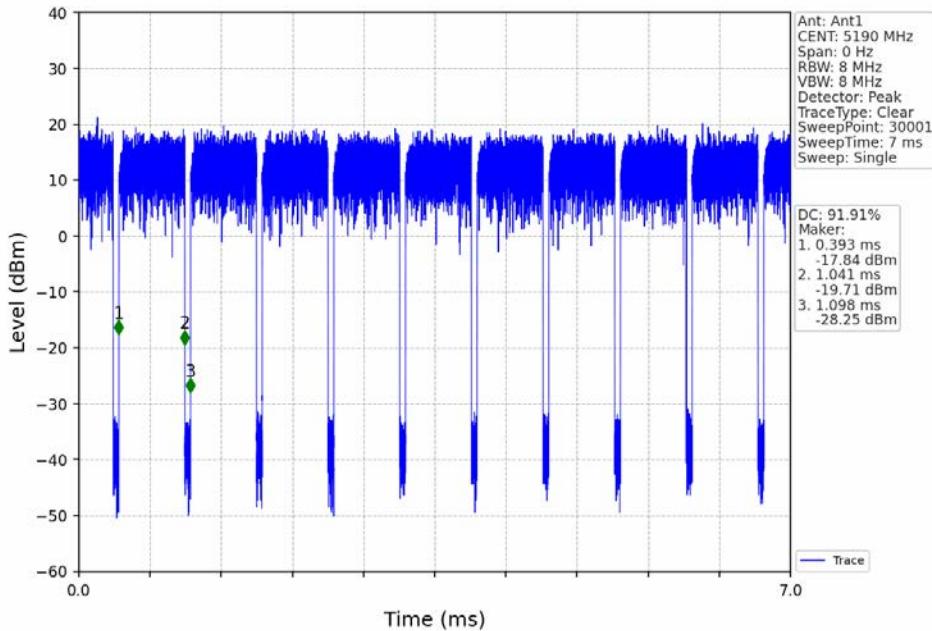
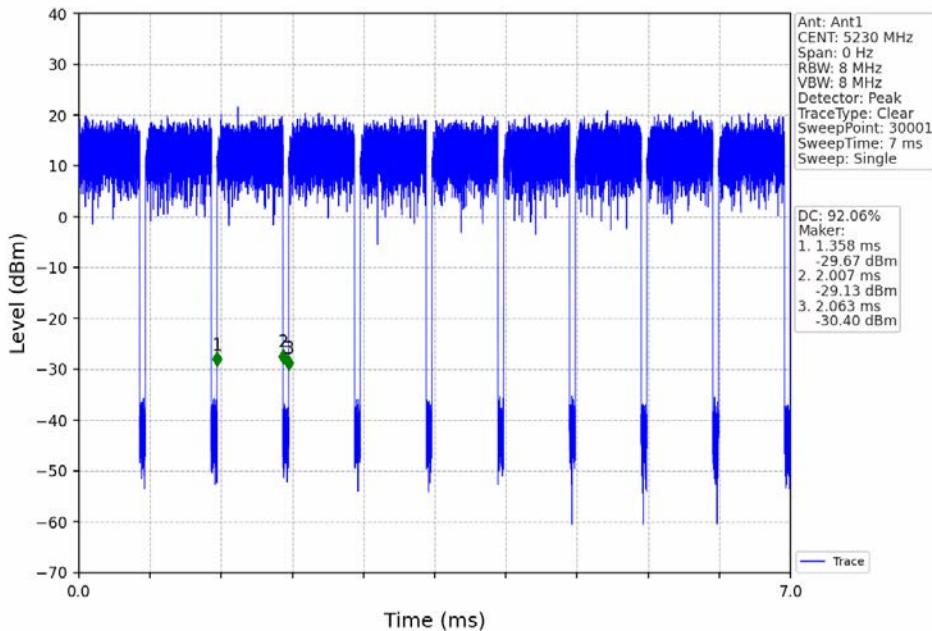
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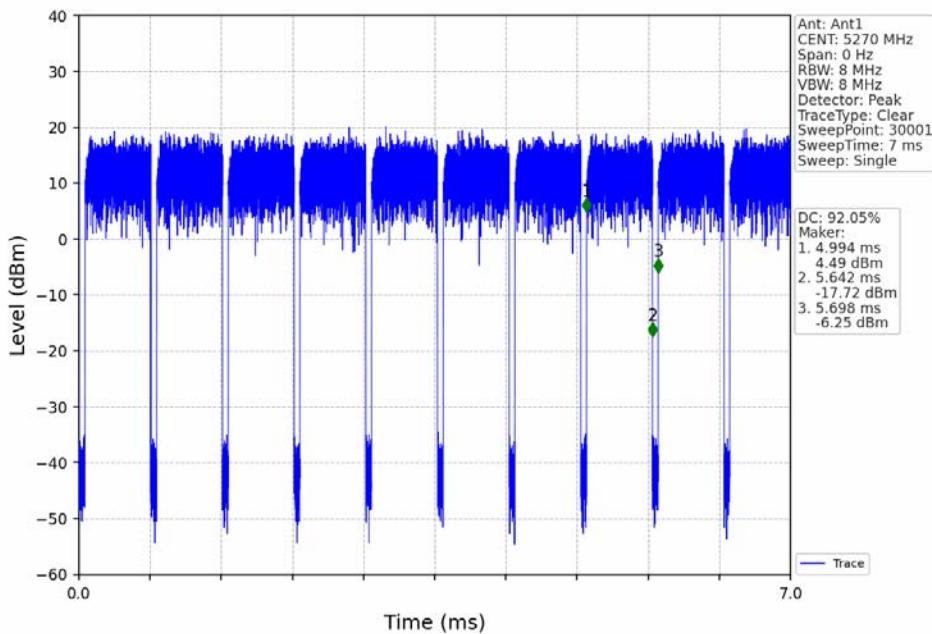
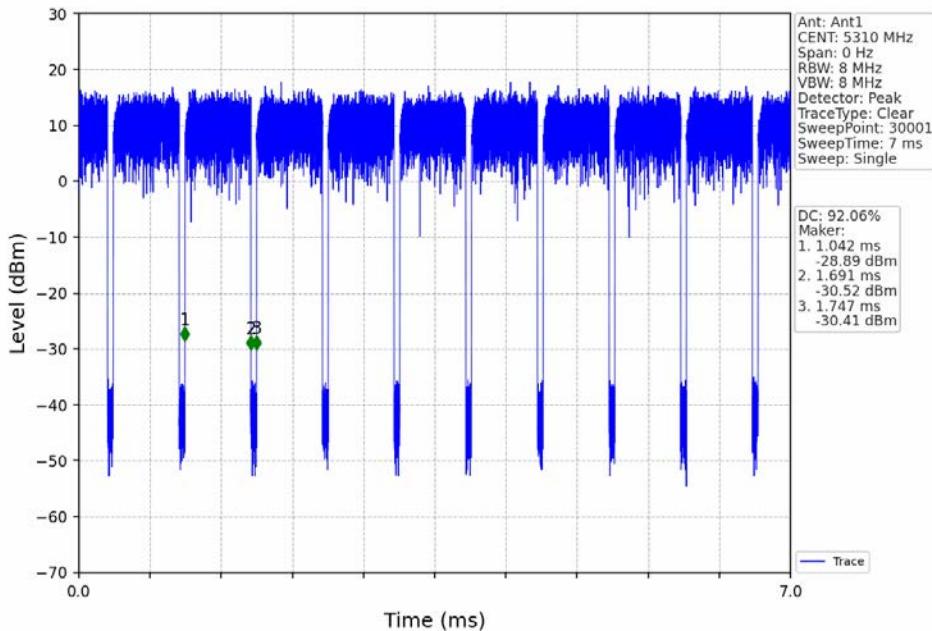
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV**802.11n(HT40)_HCH_5230MHz_Ant1_NTNV**

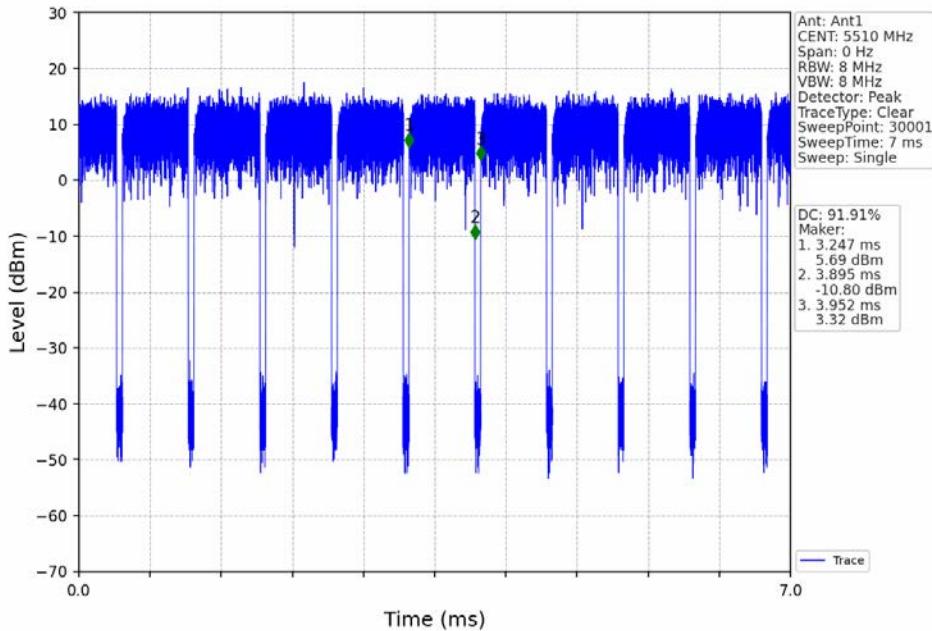
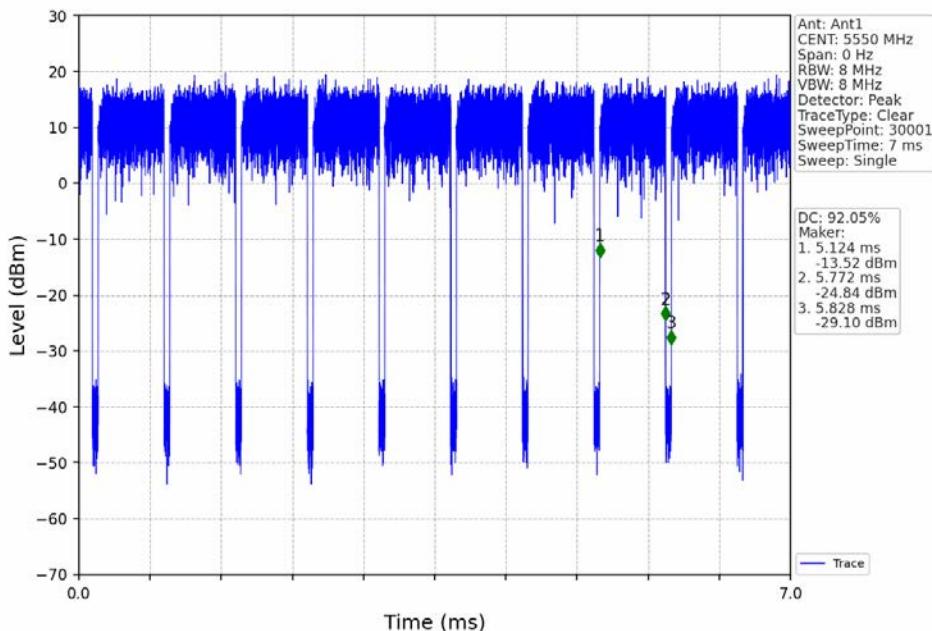
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802.11n(HT40)_LCH_5270MHz_Ant1_NTNV**802.11n(HT40)_HCH_5310MHz_Ant1_NTNV**

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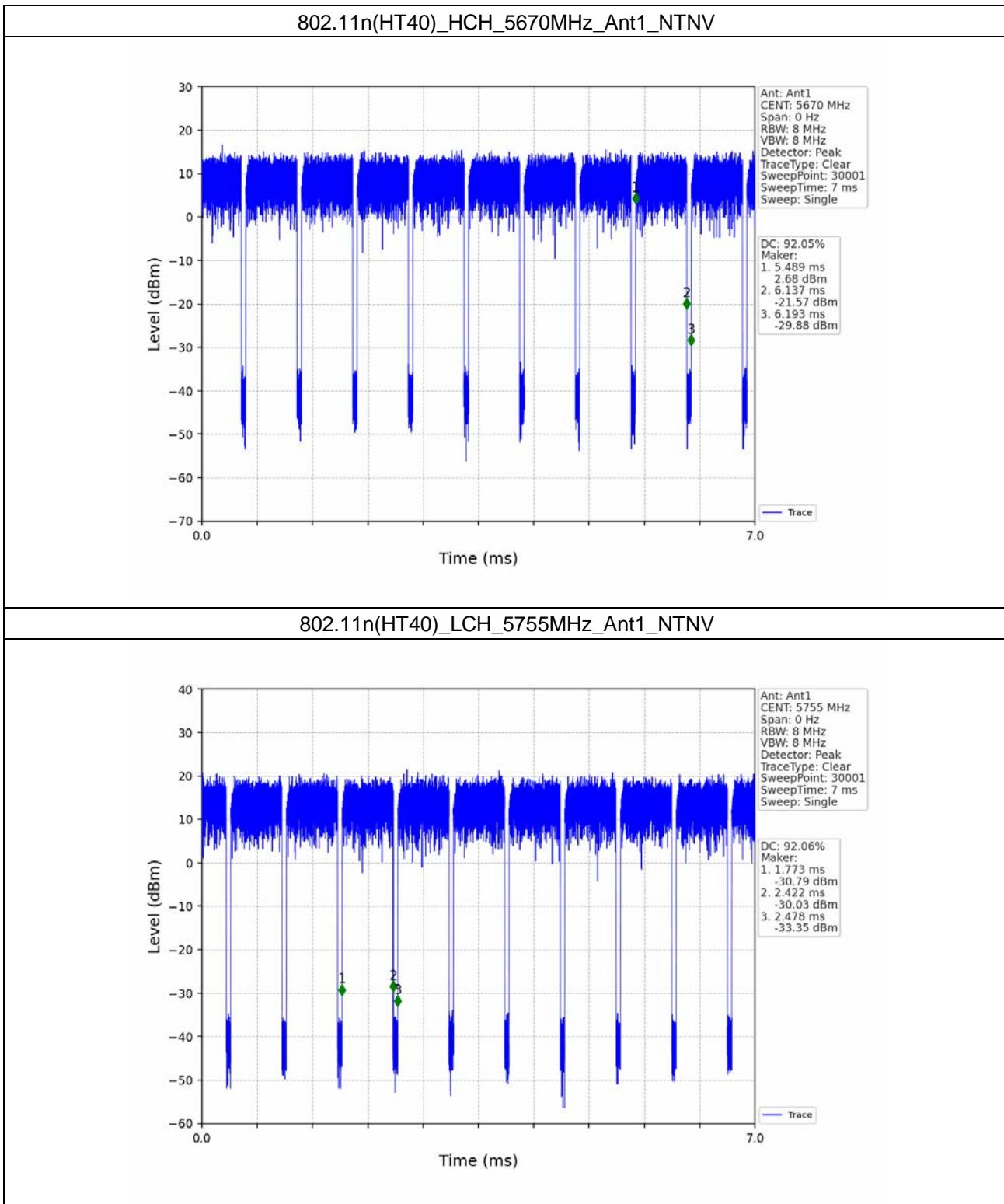
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802.11n(HT40)_LCH_5510MHz_Ant1_NTNV**802.11n(HT40)_MCH_5550MHz_Ant1_NTNV**

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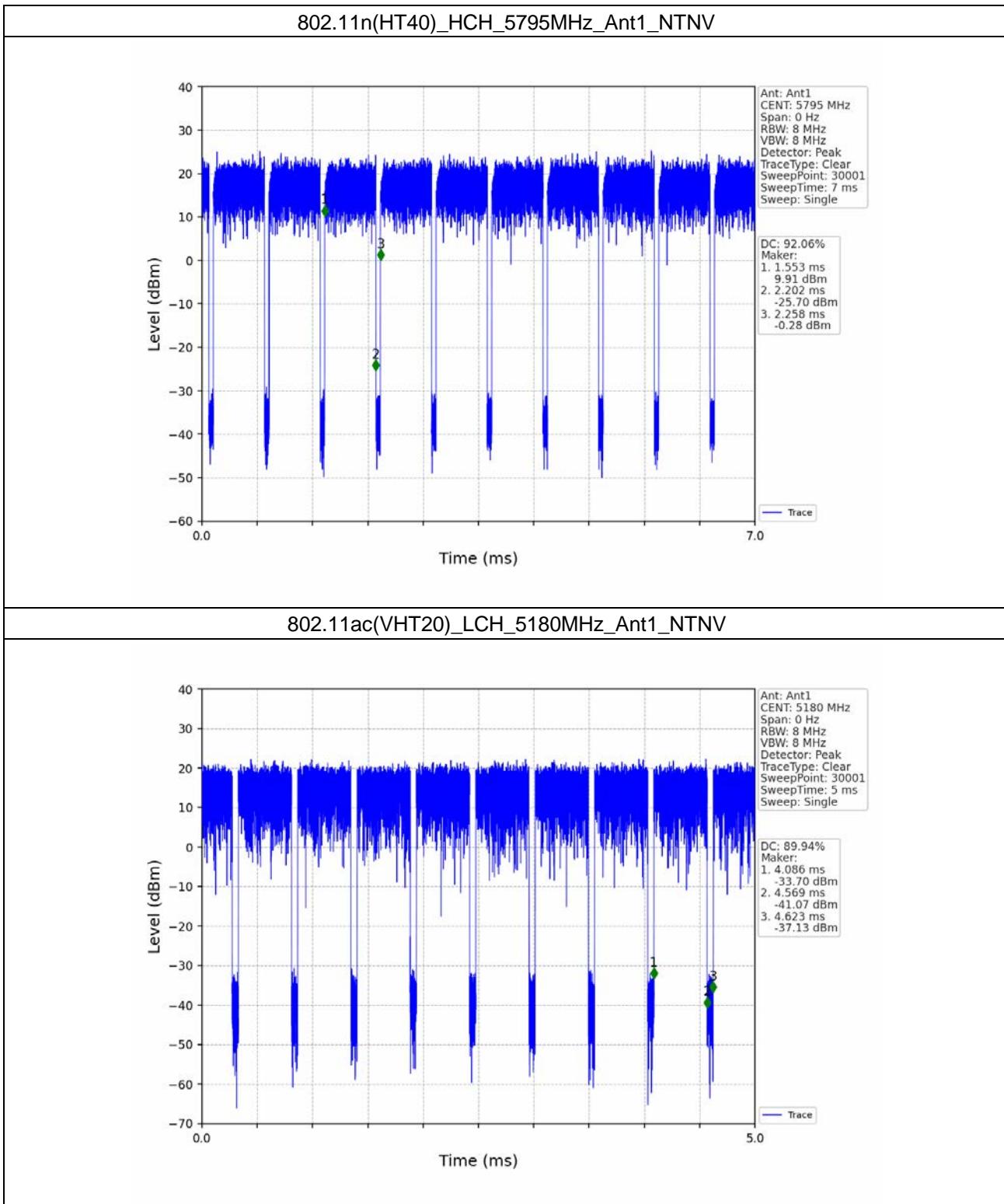
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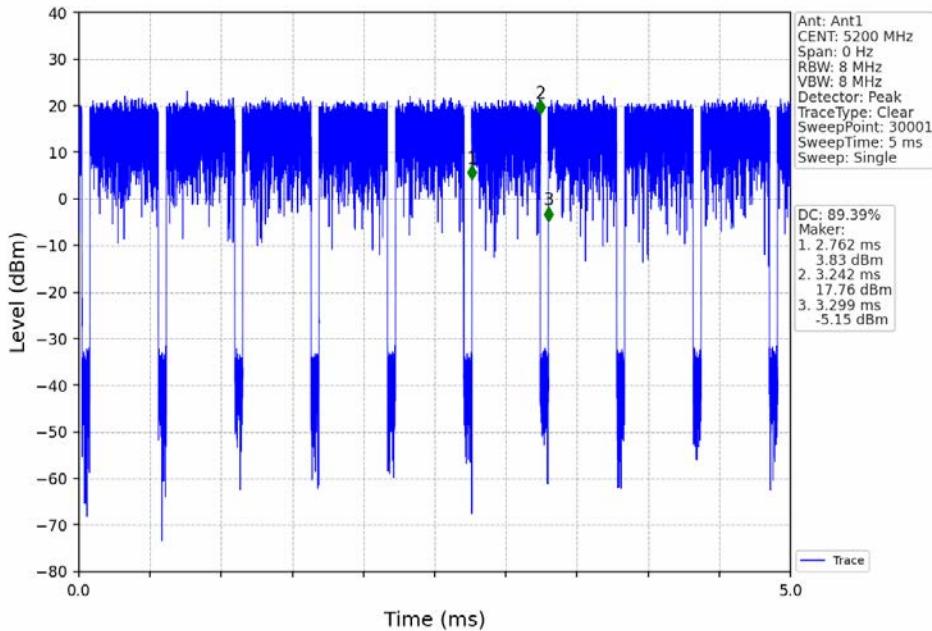
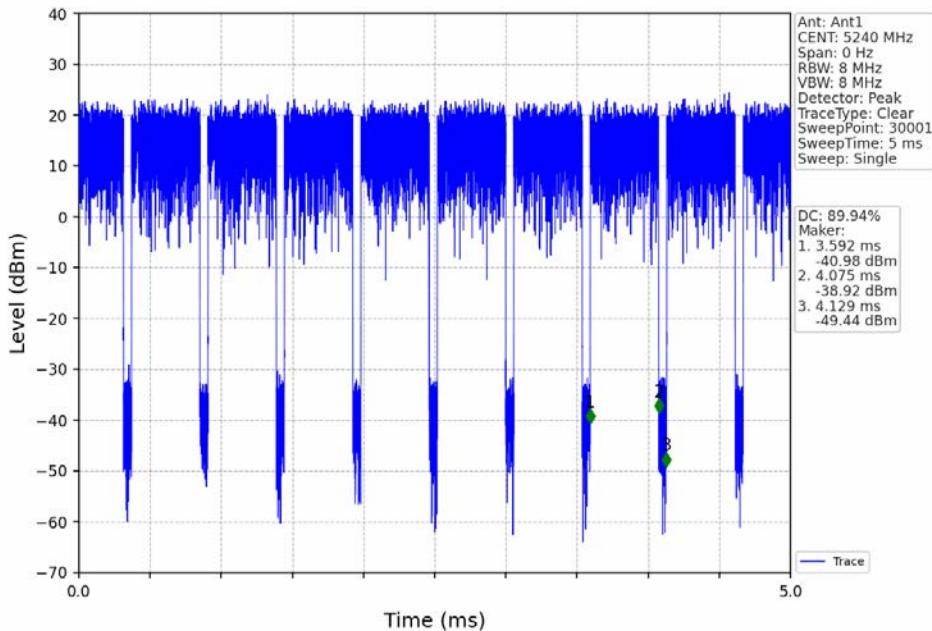
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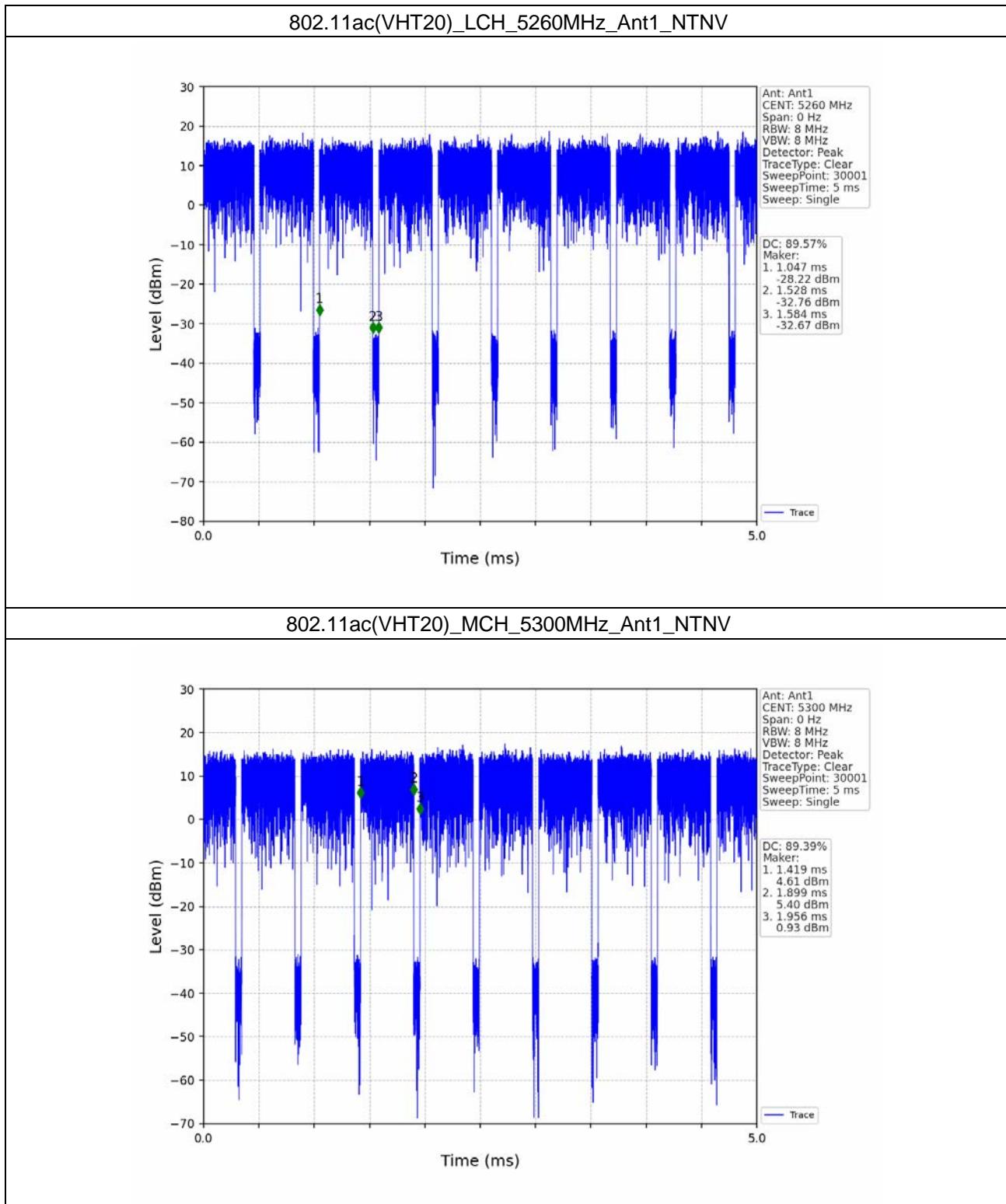
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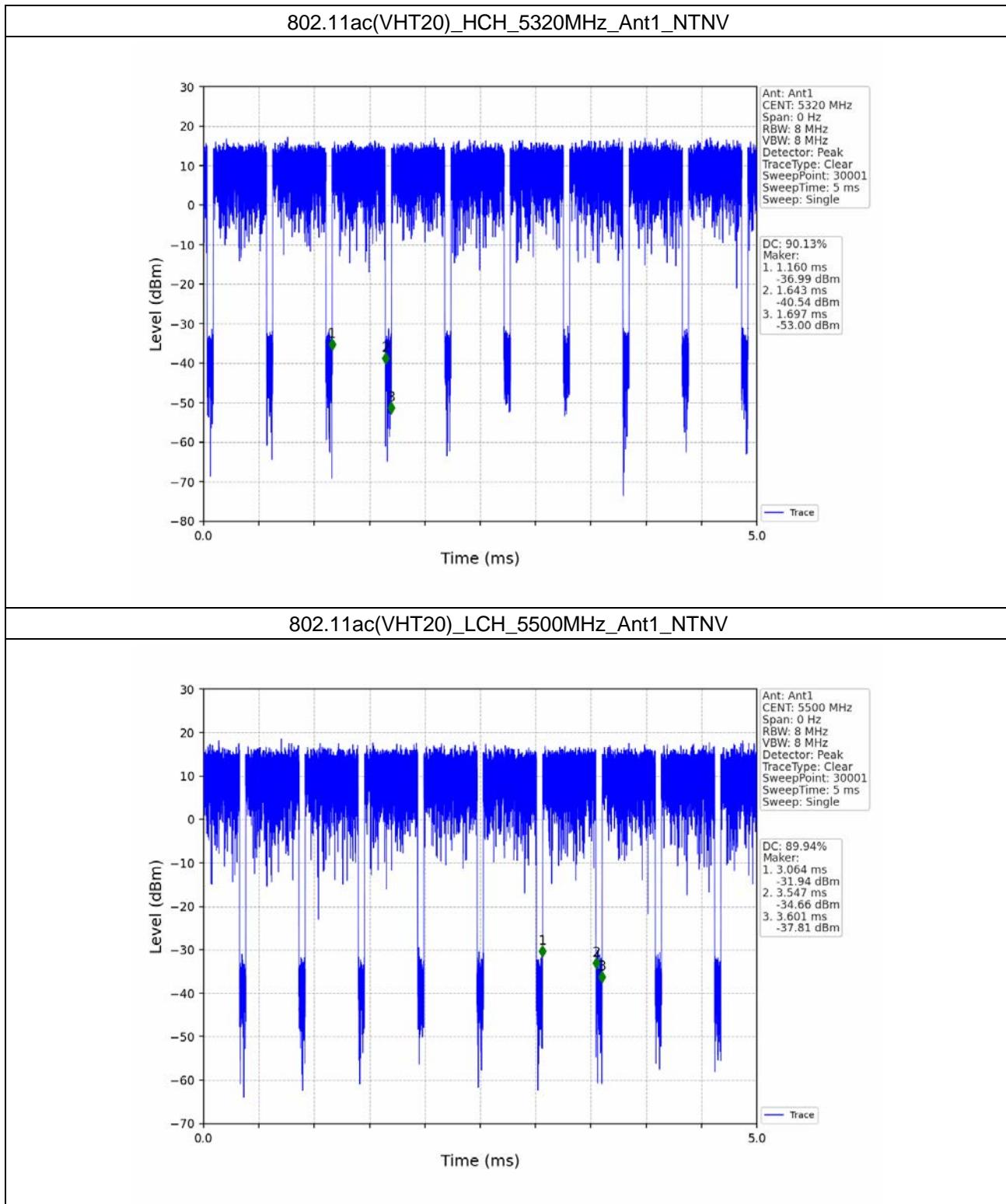
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV**802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV**



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