

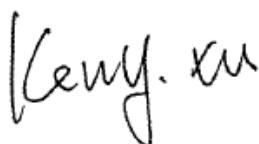
Report No.: SZEM200900871803
Page: 1 of 976

TEST REPORT

Application No.: SZEM2009008718CR
Applicant: SAGEMCOM BROADBAND SAS
Address of Applicant: 250 Route de l'Empereur - 92848 RUEIL MALMAISON CEDEX- FRANCE
Manufacturer: SAGEMCOM BROADBAND SAS
Address of Manufacturer: 250 Route de l'Empereur - 92848 RUEIL MALMAISON CEDEX- FRANCE
Factory: AGEMCOM BROADBAND SAS
Address of Factory: 250 Route de l'Empereur - 92848 RUEIL MALMAISON CEDEX- FRANCE
Equipment Under Test (EUT):
EUT Name: Home Hub 4000(FAST 5689)
Model No.: FAST 5689
FCC ID: VW3FAST5689
Trade mark: SAGEMCOM
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2020-09-02
Date of Test: 2020-09-03 to 2020-09-30
Date of Issue: 2020-11-19

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



Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

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Revision Record

Version	Chapter	Date	Modifier	Remark
01		2020-11-19		Original

Authorized for issue by:

	 _____ Leo Lai/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	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.407 (c)	Pass

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

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4 General Information

4.1 Details of E.U.T.

Test voltage:	120V~60Hz
Power adapter:	Model: MSA-Z5000IS12.0-60A-P Input: 100-120V~50/60Hz 1.5A Max, Output: DC 12V 5A
DFS Function:	Master
TPC Function:	Support
Antenna Type:	Internal Antenna

Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
UNII Band I	UNII Band I	802.11a/n(HT20)/ac(VHT20)/ax(HE20)	5180-5240	4
		802.11n(HT40)/ac(VHT40)/ax(HE40)	5190-5230	2
		802.11ac(VHT80)/ax(HE80)	5210	1
	UNII Band II-A	802.11a/n(HT20)/ac(VHT20)/ax(HE20)	5260-5320	4
		802.11n(HT40)/ac(VHT40)/ax(HE40)	5270-5310	2
		802.11ac(VHT80)/ax(HE80)	5290	1
		802.11ac(VHT160)/ax(HE160)	5250	1
	UNII Band II-C	802.11a/n(HT20)/ac(VHT20)/ax(HE20)	5500-5700	11
		802.11n(HT40)/ac(VHT40)/ax(HE40)	5510-5670	5
		802.11ac(VHT80)/ax(HE80)	5530-5630	2
		802.11ac(VHT160)/ax(HE160)	5570	1
	UNII Band III	802.11a/n(HT20)/ac(VHT20)/ax(HE20)	5745-5825	5
		802.11n(HT40)/ac(VHT40)/ax(HE40)	5755-5895	2
		802.11ac(VHT80)/ax(HE80)	5775	1
Modulation Type:	802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) 802.11ax: OFDMA&OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)			
Channel Spacing:	802.11a/n(HT20)/ac(VHT20)/ax(HE20) : 20MHz 802.11n(HT40)/ac(VHT40)/ax(HE40) : 40MHz 802.11ac(VHT80)/ax(HE80) : 80MHz 802.11ac(VHT80)/ax(HE80) : 160MHz			

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Antenna Gain:

2.4G-1	2.4G-2	2.4G-3	DB-2 (2.4G)	5G-1	5G-2
Vertical (dipole)	Vertical (dipole)	Horizontal (dipole)	Horizontal (dipole)	Mix (PIFA)	Mix (PIFA)
5G-3	DB-2 (5G)	5G-4	5G-5	5G-6	DB-1 (5G)
Horizontal (dipole)	Horizontal (dipole)	Mix (PIFA)	Mix (PIFA)	Horizontal (dipole)	Horizontal (dipole)

	Band 1	Band 2A	Band 2C	Band 3
5G-1	4.49	4.26	-	-
5G-2	3.57	3.71	-	-
5G-3	4.89	4.81	-	-
DB-2(5G)	4.02	4.4	-	-
5G-4	-	-	3.88	3.4
5G-5	-	-	3.78	4.29
5G-6	-	-	4.96	4.84
DB-1(5G)	-	-	4.91	4.5
Total(dBi) 4ANTs	6.98	6.96	6.85	6.85

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	T430u	REF. No. SEA1800

4.3 Measurement Uncertainty

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

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The U_{lab} (lab Uncertainty) is less than U_{cisor} (CISPR Uncertainty), so the test results

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

4.4 Test Location

All tests were performed at:

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

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

No tests were sub-contracted.

4.5 Test Facility

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

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

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

- **VCCI**

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

- **FCC –Designation Number: CN1178**

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

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

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

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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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	2019-06-13	2022-06-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019-09-24	2021-09-22
LISN	ETS-LINDGREN	3816/2	SEM007-02	2020-04-01	2021-03-31
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020-03-24	2021-03-23

Duty Cycle					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2020-05-21	2021-05-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2020-03-25	2021-03-24

99% Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2020-05-21	2021-05-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2020-03-25	2021-03-24

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26dB Emission bandwidth

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	N/A	N/A

Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	N/A	N/A

Maximum Conducted output power

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2020-05-21	2021-05-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2020-03-25	2021-03-24

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Peak Power spectrum density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2020-05-21	2021-05-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2020-03-25	2021-03-24

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2021-09-22
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2021-09-22
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13

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Radiated Spurious Emissions (30MHz-1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2019-12-16	2020-12-15
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09

Radiated Spurious Emissions

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2021-09-22
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2021-09-22
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13

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Frequency Stability

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2020-05-21	2021-05-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2020-03-25	2021-03-24

General used equipment

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2021-09-14
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06

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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 permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated in the product and no consideration of replacement. The best case gain of the Antenna1 is 4.49dBi, Antenna2 is 4.29dBi, Antenna3 is 4.96dBi, Antenna4 is 4.91dBi, and the total Peak Gain of 3D Directional is 6.98dBi.

Antenna location: Refer to Internal photos.

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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details:

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



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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 & 15.407 b(6)
Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

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

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 52 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Pre-scan	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE160). Only the data of worst case is recorded in the report.
Pre-scan	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE

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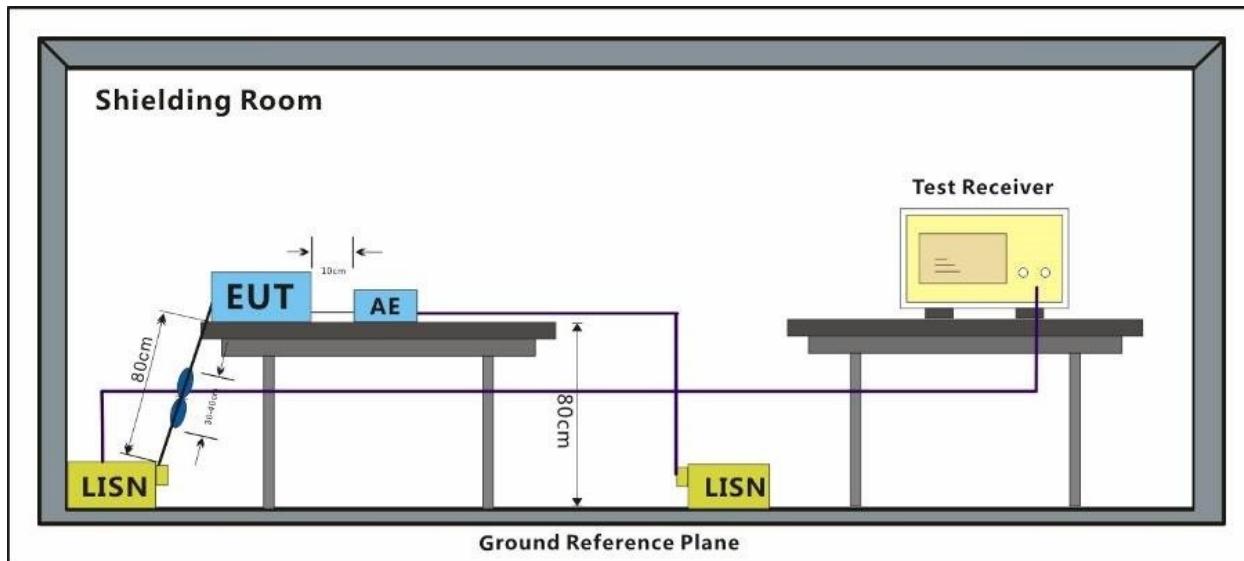


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		802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT160); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE160). Only the data of worst case is recorded in the report.
Pre-scan	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). 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 + 50hm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

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



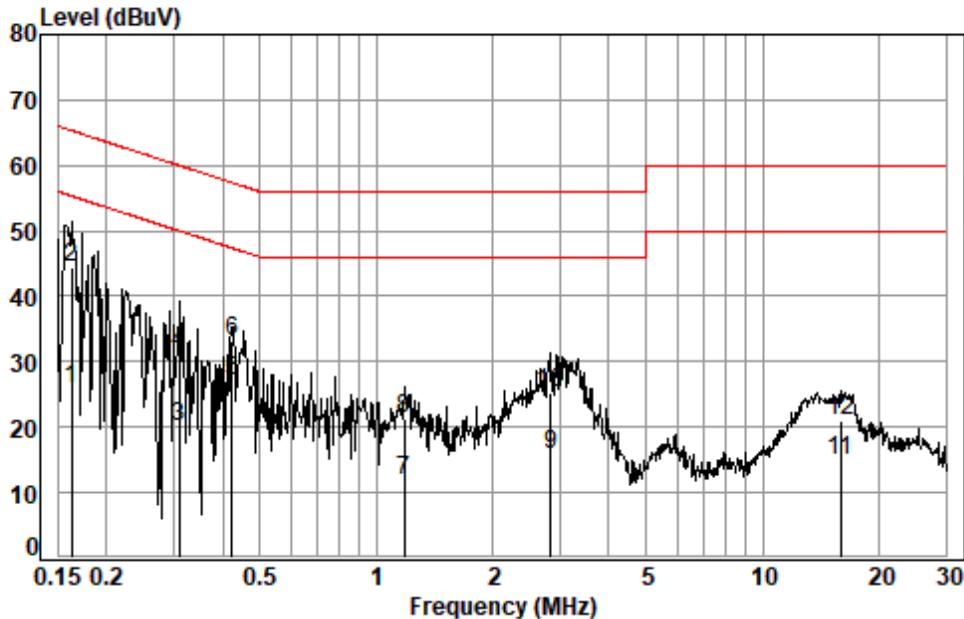
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Test Mode: 01; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 08718CR

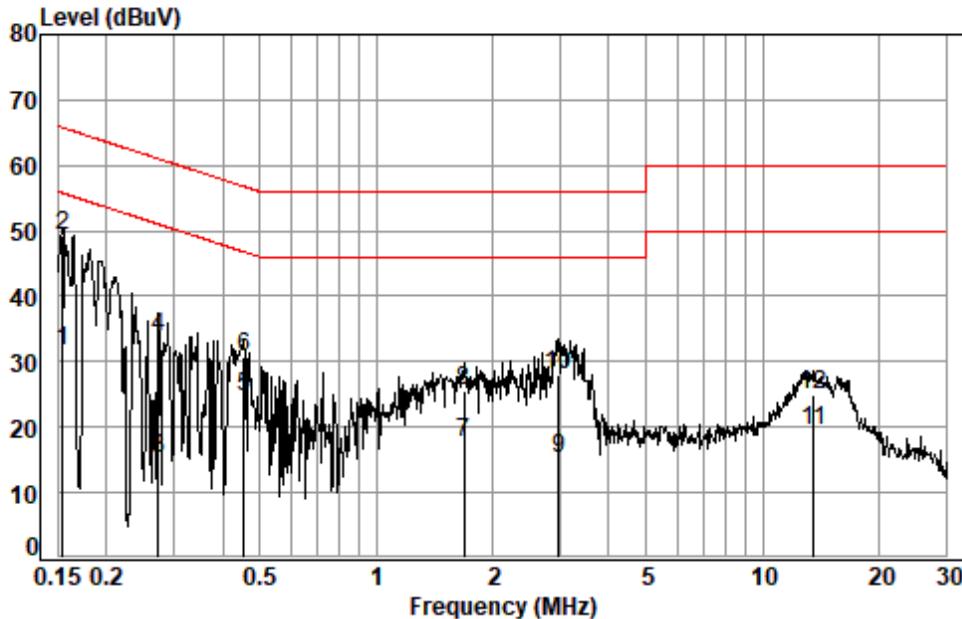
Test mode: 01

Freq	Cable Loss	LISN Factor	Read	Limit Line	Over Limit	Remark
			Level			
MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.1624	0.01	9.68	16.25	25.94	55.34 -29.40 Average
2	0.1624	0.01	9.68	34.82	44.51	65.34 -20.83 QP
3	0.3083	0.04	9.68	10.25	19.97	50.02 -30.05 Average
4	0.3083	0.04	9.68	21.47	31.19	60.02 -28.83 QP
5	0.4237	0.05	9.68	17.37	27.10	47.37 -20.27 Average
6	0.4237	0.05	9.68	23.36	33.09	57.37 -24.28 QP
7	1.1844	0.11	9.71	2.16	11.98	46.00 -34.02 Average
8	1.1844	0.11	9.71	11.38	21.20	56.00 -34.80 QP
9	2.8240	0.16	9.76	6.05	15.97	46.00 -30.03 Average
10	2.8240	0.16	9.76	15.18	25.10	56.00 -30.90 QP
11	15.9698	0.22	10.63	4.06	14.91	50.00 -35.09 Average
12	15.9698	0.22	10.63	10.06	20.91	60.00 -39.09 QP

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Test Mode: 01; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 08718CR

Test mode: 01

1	Cable Freq	Loss	LISN Factor	Read Level		Limit Line	Over Limit	Remark
				MHz	dB	dBuV	dBuV	dB
2	0.1540	0.01	9.67	21.85	31.53	55.78	-24.25	Average
3	0.1540	0.01	9.67	39.59	49.27	65.78	-16.51	QP
4	0.2730	0.04	9.66	5.37	15.07	51.03	-35.96	Average
5	0.2730	0.04	9.66	24.04	33.74	61.03	-27.29	QP
6	0.4539	0.06	9.67	15.05	24.78	46.80	-22.02	Average
7	0.4539	0.06	9.67	20.90	30.63	56.80	-26.17	QP
8	1.6891	0.14	9.72	7.85	17.71	46.00	-28.29	Average
9	1.6891	0.14	9.72	15.71	25.57	56.00	-30.43	QP
10	2.9619	0.16	9.76	5.29	15.21	46.00	-30.79	Average
11	2.9619	0.16	9.76	18.12	28.04	56.00	-27.96	QP
12	13.5509	0.20	10.51	8.80	19.51	50.00	-30.49	Average
	13.5509	0.20	10.51	14.35	25.06	60.00	-34.94	QP

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7.2 Duty Cycle

Test Requirement 47 CFR Part 15, Subpart E 15.407
Test Method: KDB 789033 II B 1

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.2 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT160); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE160). Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT160); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE160). Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT160);

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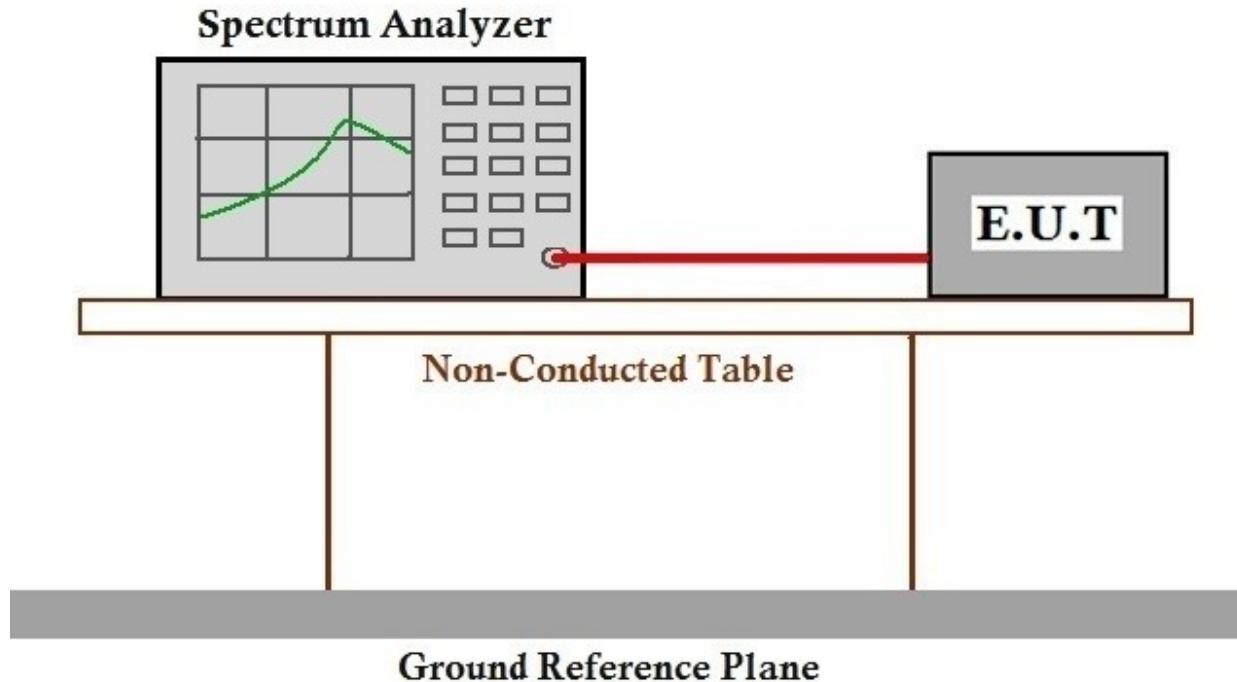


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		802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer To Appendix For Details

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7.3 99% Bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407
Test Method: KDB 789033 II D

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT160); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE160). Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT160); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE160). Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT160);

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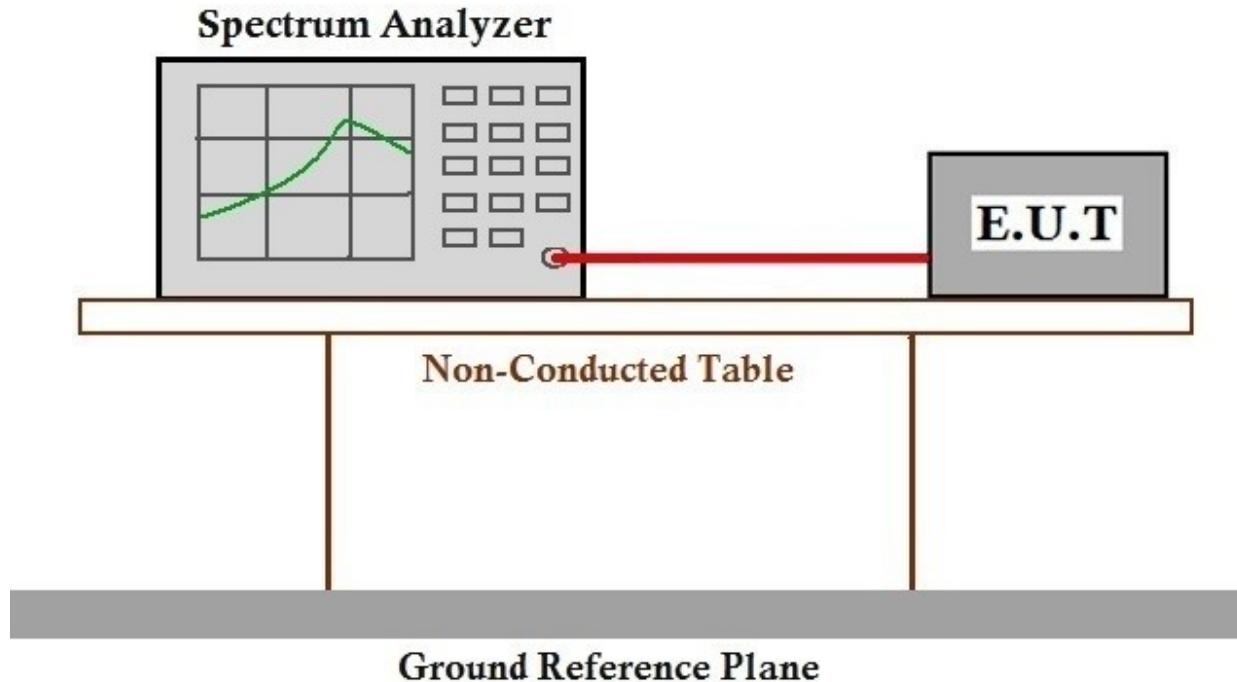


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		802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer To Appendix For Details

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7.4 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407

Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT160); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE160). Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT160); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE160). Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT160);

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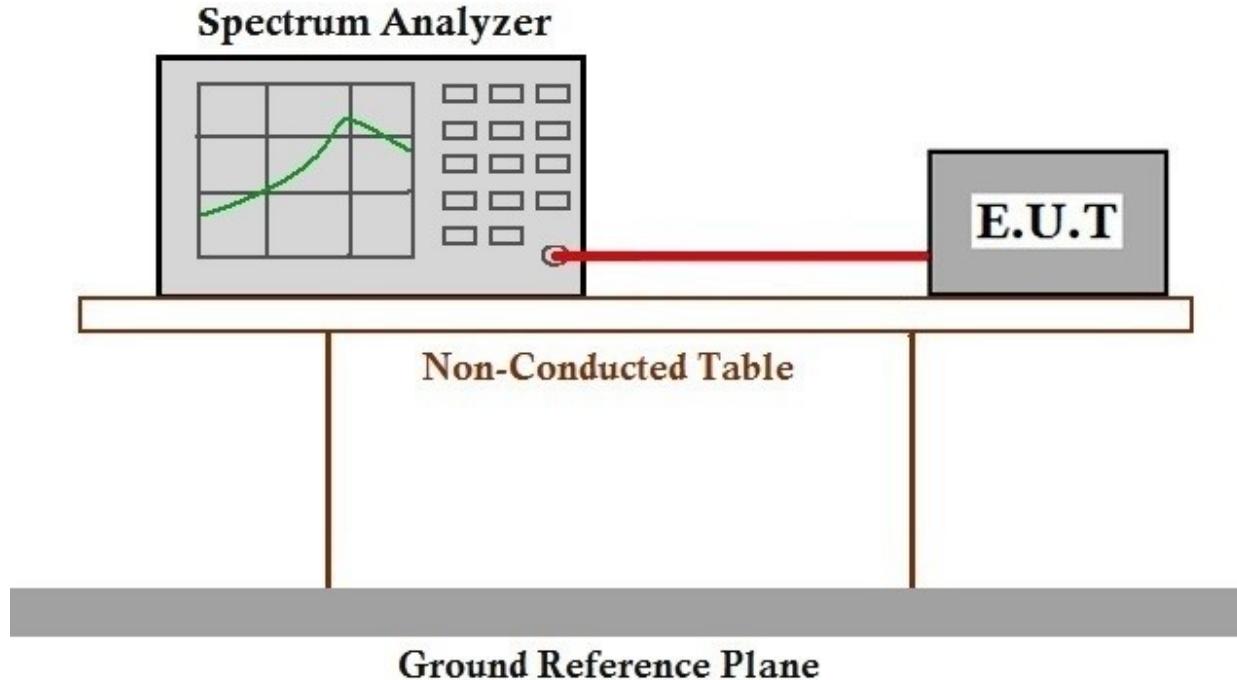


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		802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
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7.4.3 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
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:

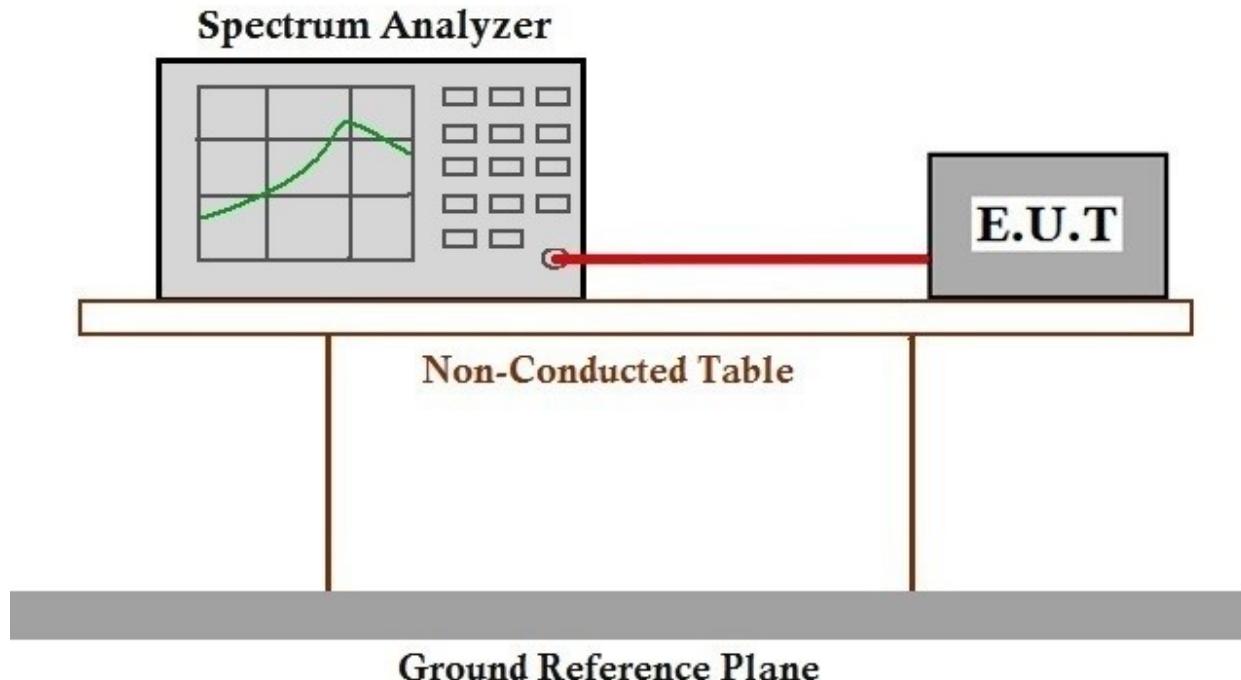
Temperature: 23.6 °C Humidity: 56.3 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

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7.5.3 Test Setup Diagram**7.5.4 Measurement Procedure and Data**

Please Refer To Appendix For Details

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7.6 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407

Test Method: KDB 789033 D02 II E

Limit:

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

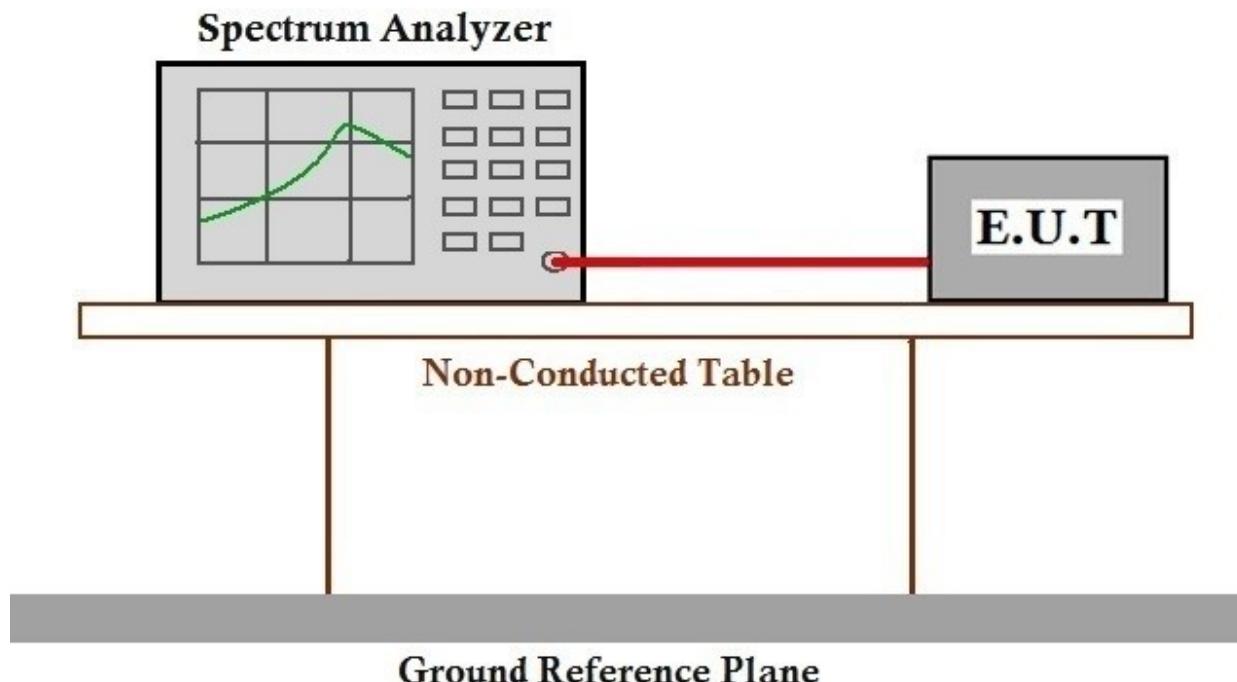
Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE160). Only the data of worst case is recorded in the report.
Final test	03	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

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		the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT160); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE160). Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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7.7 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407

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: 23.5 °C Humidity: 56.2 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT160); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE160). Only the data of worst case is recorded in the report.
Final test	03	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

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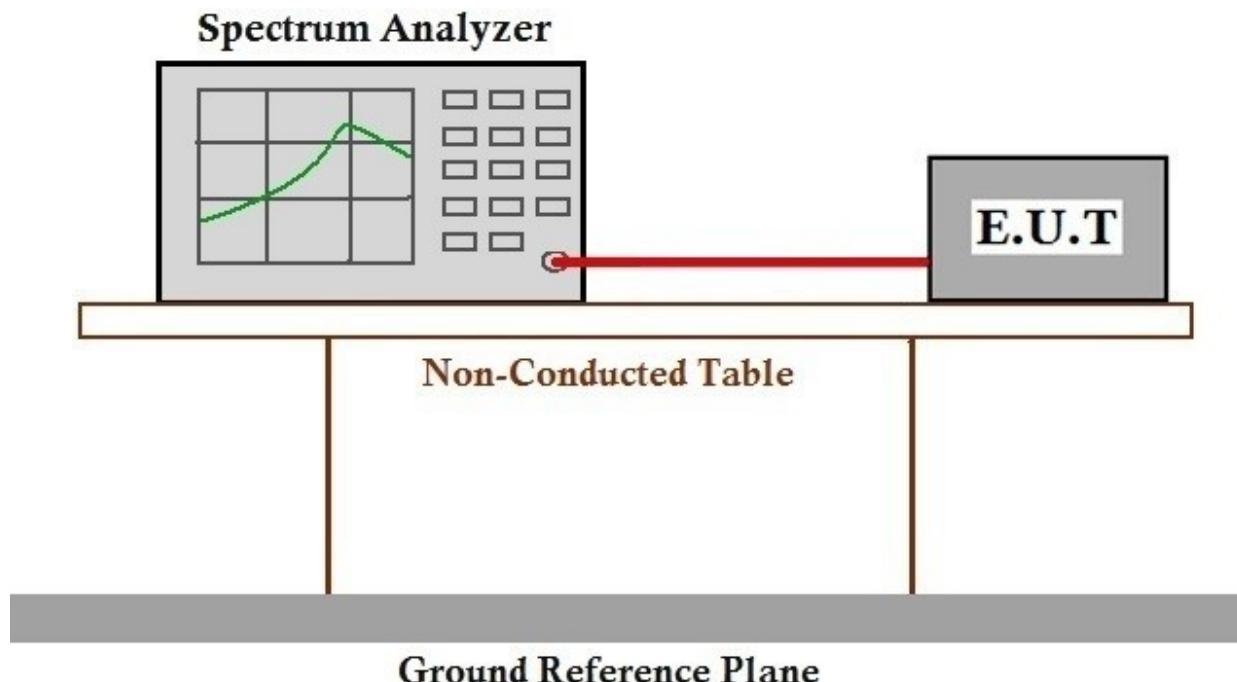


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		the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT160); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE160). Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

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7.8 Radiated Emissions

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

Test Method: KDB 789033 D02 II G

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: 23.5 °C

Humidity: 51 % RH

Atmospheric Pressure: 1015 mbar

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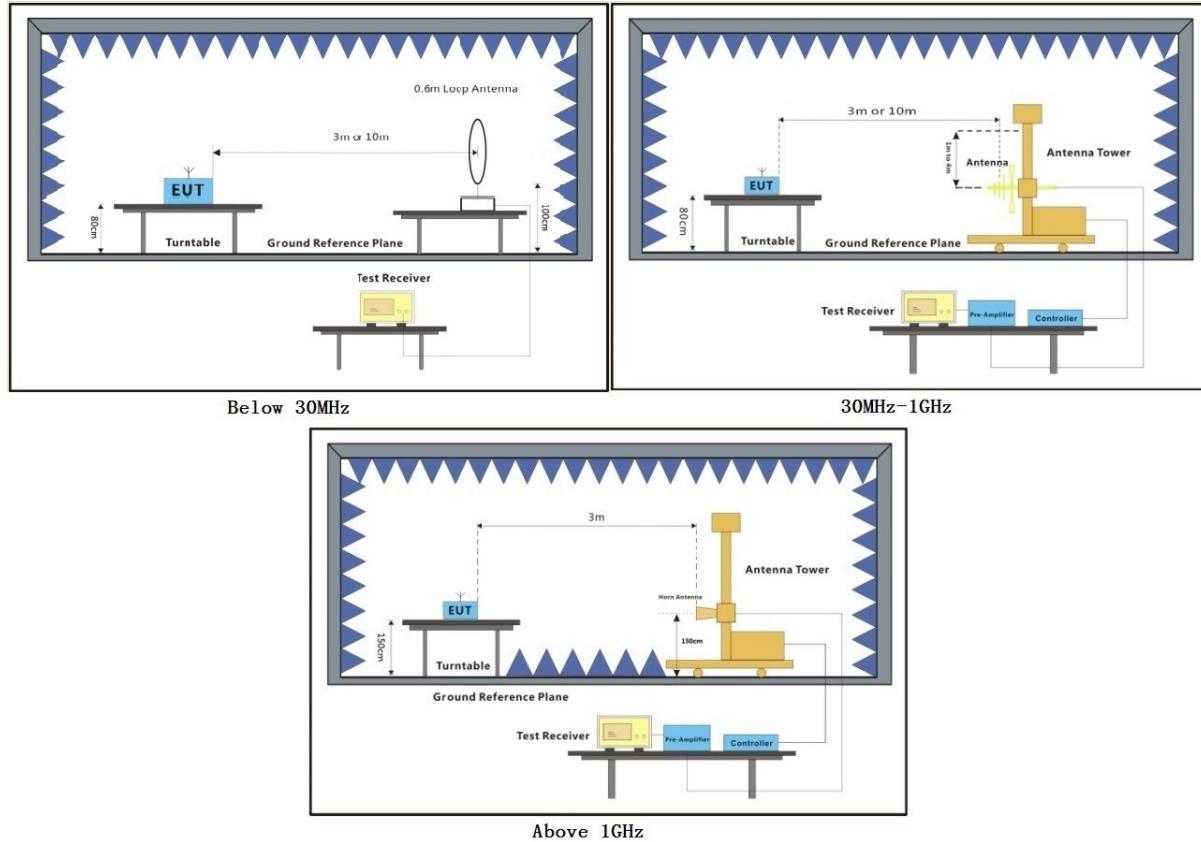
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7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT160); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE160). Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT160); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE160). Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). 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 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
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 40GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. 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.

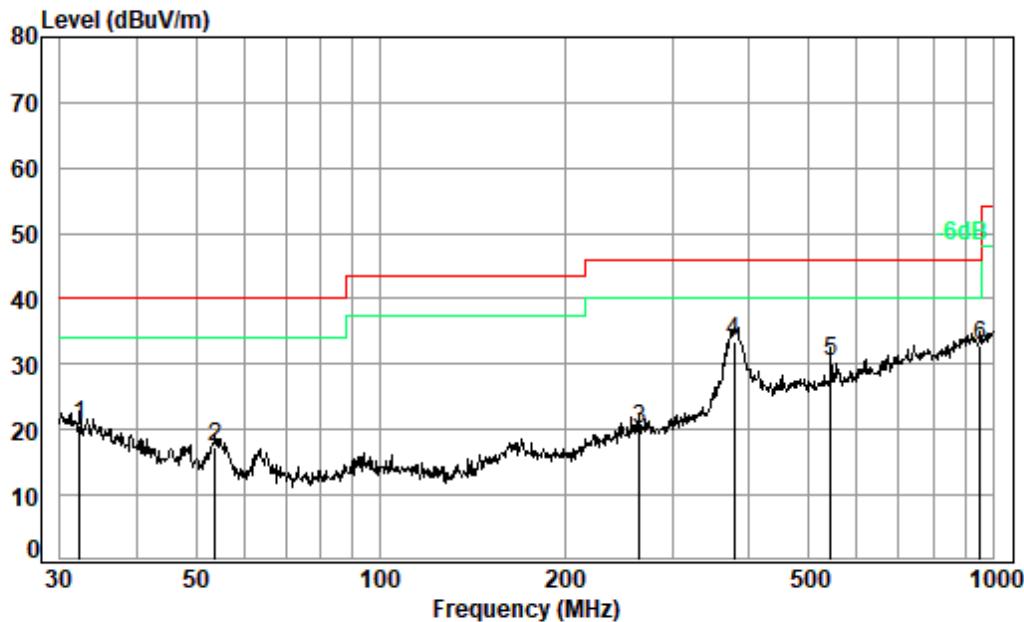
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For SISO mode: ANT1 is the worst case among ANT1, ANT2, ANT3 and ANT4;

MIMO mode: ANT1 & ANT2 & ANT3 & ANT4 is the worst case.

Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No. : 08718CR

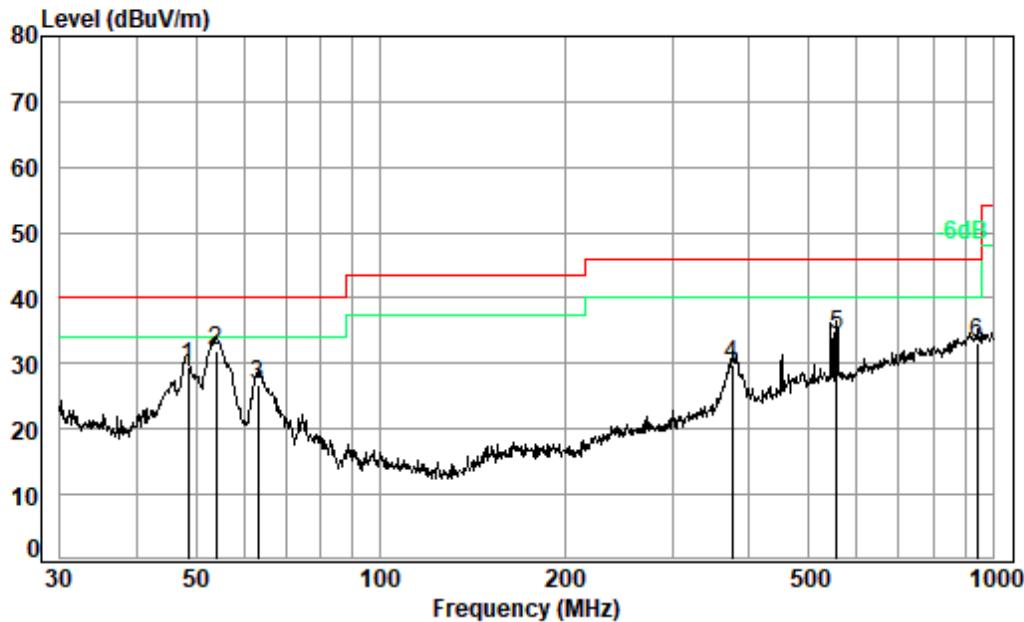
Test Mode: 01

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	32.29	0.63	21.41	27.73	26.40	20.71	40.00	-19.29 QP
2	53.69	0.74	13.50	27.67	30.65	17.22	40.00	-22.78 QP
3	264.75	1.75	18.34	26.95	26.99	20.13	46.00	-25.87 QP
4 pp	378.58	2.24	22.20	27.29	36.46	33.61	46.00	-12.39 QP
5	543.27	2.59	25.03	27.95	30.82	30.49	46.00	-15.51 QP
6	952.09	3.55	29.38	26.90	26.88	32.91	46.00	-13.09 QP

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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No. : 08718CR

Test Mode: 01

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	48.50	0.70	14.47	27.69	41.89	29.37	40.00	-10.63 QP
2 pp	53.88	0.74	13.50	27.67	45.40	31.97	40.00	-8.03 QP
3	63.09	0.80	12.84	27.66	40.77	26.75	40.00	-13.25 QP
4	375.94	2.24	22.20	27.28	32.79	29.95	46.00	-16.05 QP
5	556.77	2.62	25.03	27.99	34.82	34.48	46.00	-11.52 QP
6	942.13	3.54	29.23	26.95	27.41	33.23	46.00	-12.77 QP

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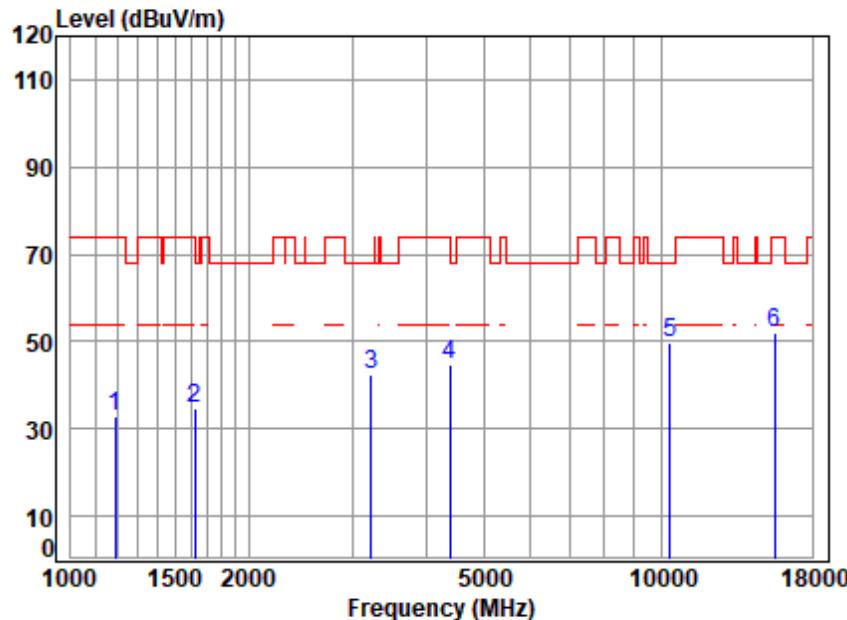
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



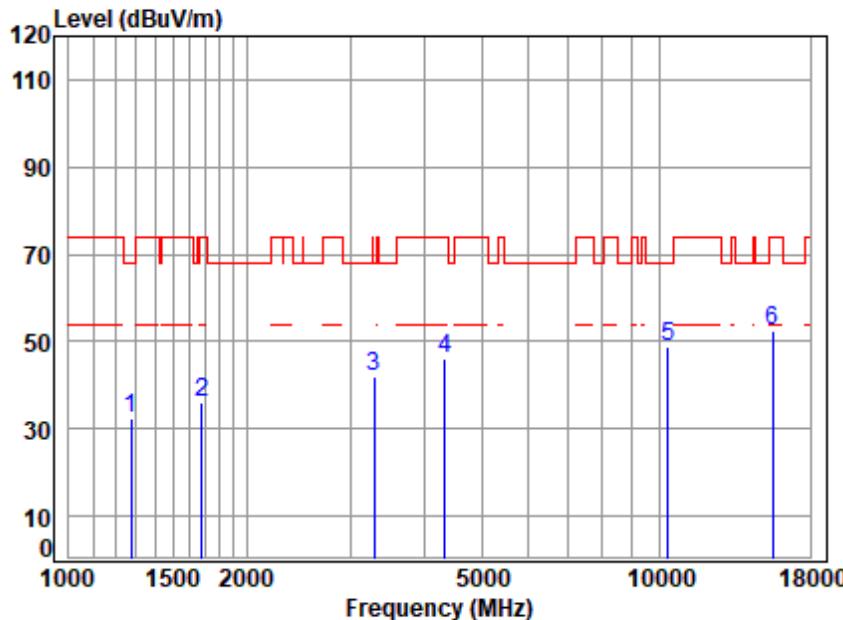
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5180 TX RSE
Note : 5G WIFI 11A
: 1TX

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
MHz								
1	1189.368	2.74	24.54	40.27	45.70	32.71	74.00	-41.29 peak
2	1620.431	3.36	26.34	40.58	45.66	34.78	74.00	-39.22 peak
3	3223.928	5.17	31.27	41.44	47.43	42.43	68.20	-25.77 peak
4	4392.376	6.66	33.42	42.47	47.11	44.72	74.00	-29.28 peak
5	10360.000	10.57	37.76	38.17	39.36	49.52	68.20	-18.68 peak
6	15540.000	13.97	40.72	40.58	37.84	51.95	74.00	-22.05 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



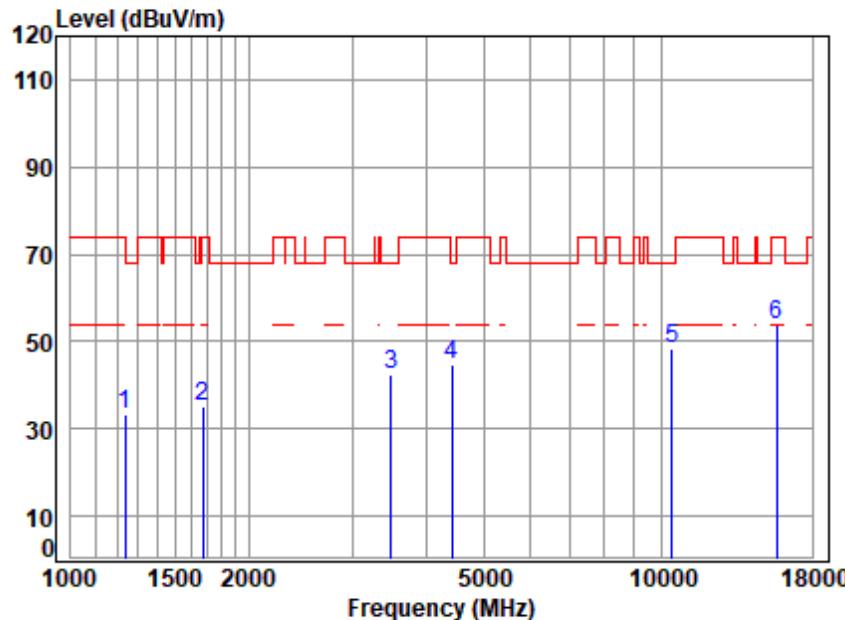
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5180 TX RSE
Note : 5G WIFI 11A
: 1TX

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 1274.802	2.90	24.92	40.34	44.72	32.20	68.20	-36.00 peak
2 1677.621	3.41	26.58	40.62	46.73	36.10	74.00	-37.90 peak
3 3289.821	5.25	31.38	41.51	46.92	42.04	68.20	-26.16 peak
4 4329.354	6.60	33.30	42.42	48.39	45.87	74.00	-28.13 peak
5 10360.000	10.57	37.76	38.17	38.88	49.04	68.20	-19.16 peak
6 15540.000	13.97	40.72	40.58	38.22	52.33	74.00	-21.67 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5220 TX RSE
Note : 5G WIFI 11A
: 1TX

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	2.83	24.74	40.31	45.86	33.12	74.00	-40.88 peak
2 1672.779	3.41	26.56	40.62	45.77	35.12	74.00	-38.88 peak
3 3485.601	5.50	31.68	41.70	47.03	42.51	68.20	-25.69 peak
4 4417.841	6.68	33.46	42.49	46.85	44.50	68.20	-23.70 peak
5 10440.000	10.55	37.72	38.21	38.40	48.46	68.20	-19.74 peak
6 15660.000	14.02	40.80	40.58	39.52	53.76	74.00	-20.24 peak

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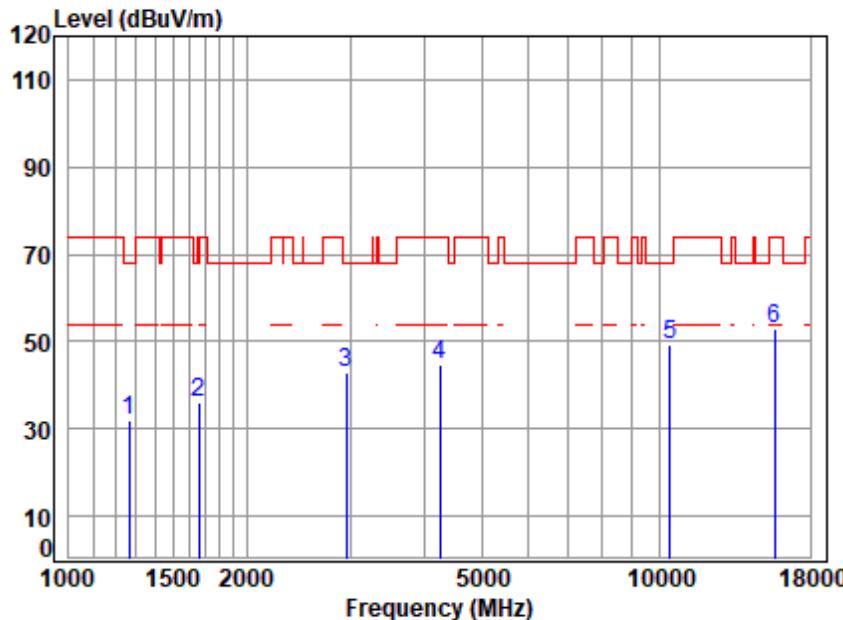
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



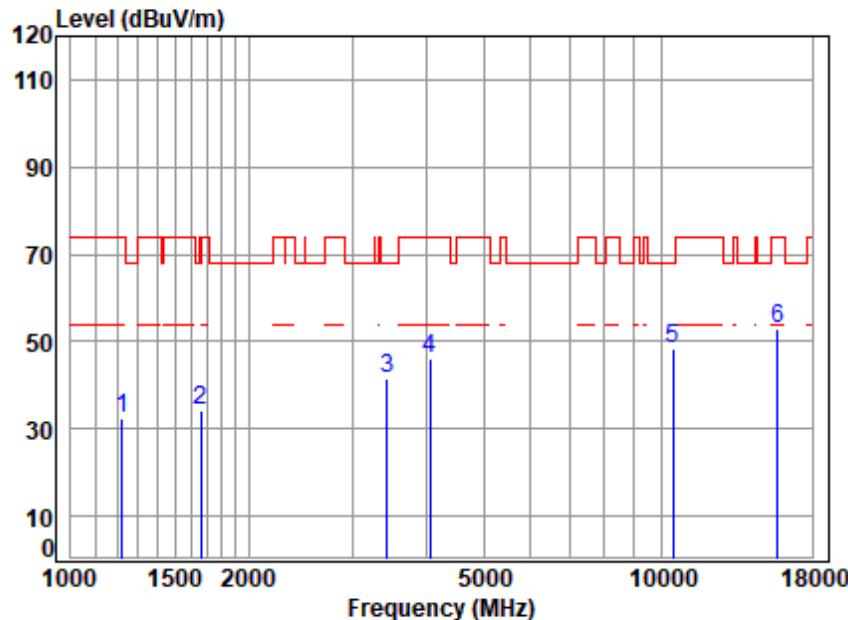
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5220 TX RSE
Note : 5G WIFI 11A
: 1TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1267.454	2.89	24.89	40.34	44.66	32.10	68.20	-36.10 peak
2 1663.137	3.40	26.52	40.61	46.59	35.90	74.00	-38.10 peak
3 2947.623	4.83	30.69	41.18	48.34	42.68	68.20	-25.52 peak
4 4254.921	6.53	33.17	42.36	47.17	44.51	74.00	-29.49 peak
5 10440.000	10.55	37.72	38.21	39.45	49.51	68.20	-18.69 peak
6 15660.000	14.02	40.80	40.58	38.85	53.09	74.00	-20.91 peak

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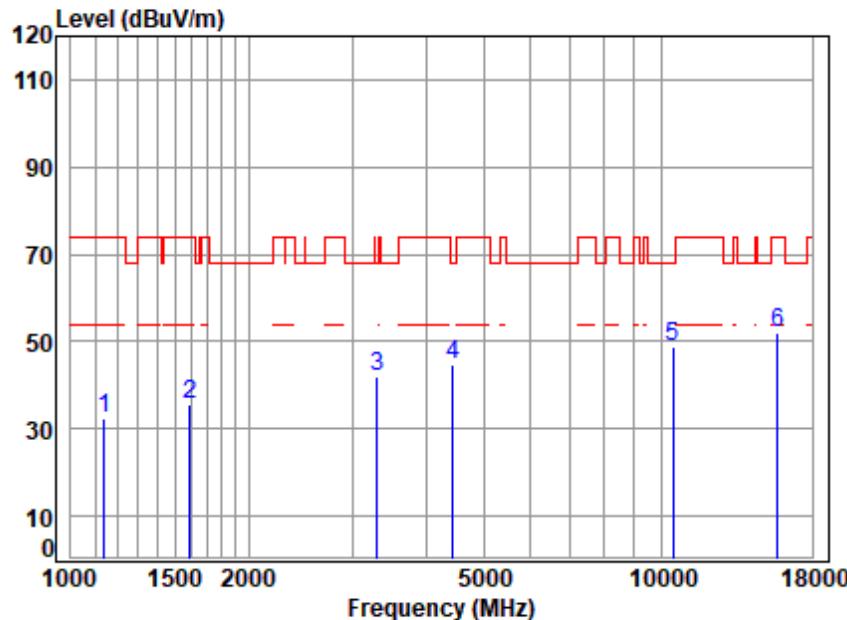
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5240 TX RSE
Note : 5G WIFI 11A
: 1TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1224.247	2.81	24.70	40.30	45.05	32.26	74.00	-41.74 peak
2 1658.337	3.40	26.50	40.61	45.05	34.34	68.20	-33.86 peak
3 3435.590	5.44	31.60	41.65	46.03	41.42	68.20	-26.78 peak
4 4062.629	6.34	32.82	42.21	49.14	46.09	74.00	-27.91 peak
5 10480.000	10.54	37.71	38.23	38.50	48.52	68.20	-19.68 peak
6 15720.000	14.04	40.83	40.57	38.47	52.77	74.00	-21.23 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5240 TX RSE
Note : 5G WIFI 11A
: 1TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1138.904	2.65	24.31	40.23	45.62	32.35	74.00	-41.65 peak
2	1592.571	3.34	26.22	40.57	46.68	35.67	74.00	-38.33 peak
3	3299.344	5.27	31.39	41.52	46.81	41.95	68.20	-26.25 peak
4	4443.453	6.71	33.50	42.51	46.81	44.51	68.20	-23.69 peak
5	10480.000	10.54	37.71	38.23	38.77	48.79	68.20	-19.41 peak
6	15720.000	14.04	40.83	40.57	37.56	51.86	74.00	-22.14 peak

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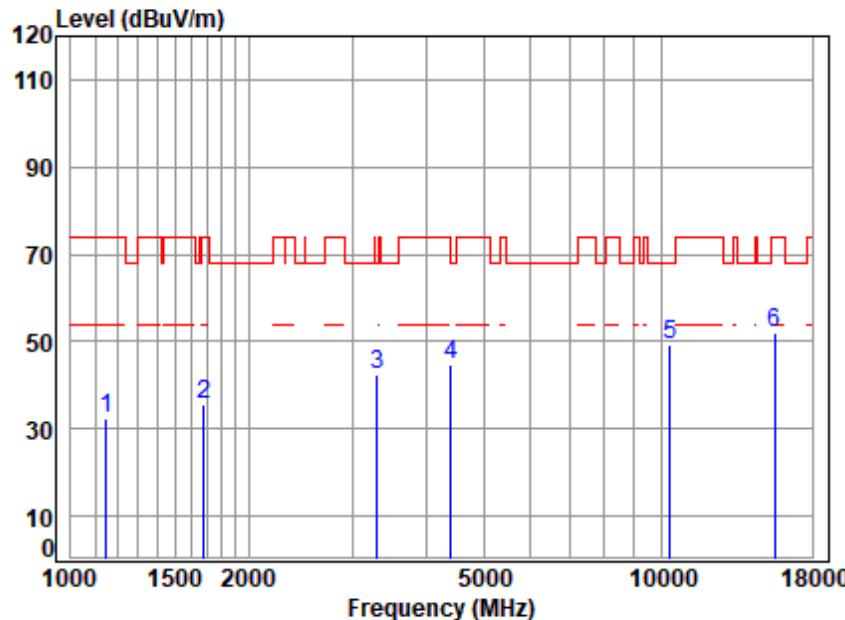
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Shenzhen Branch Inspection & Testing Services Laboratory

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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



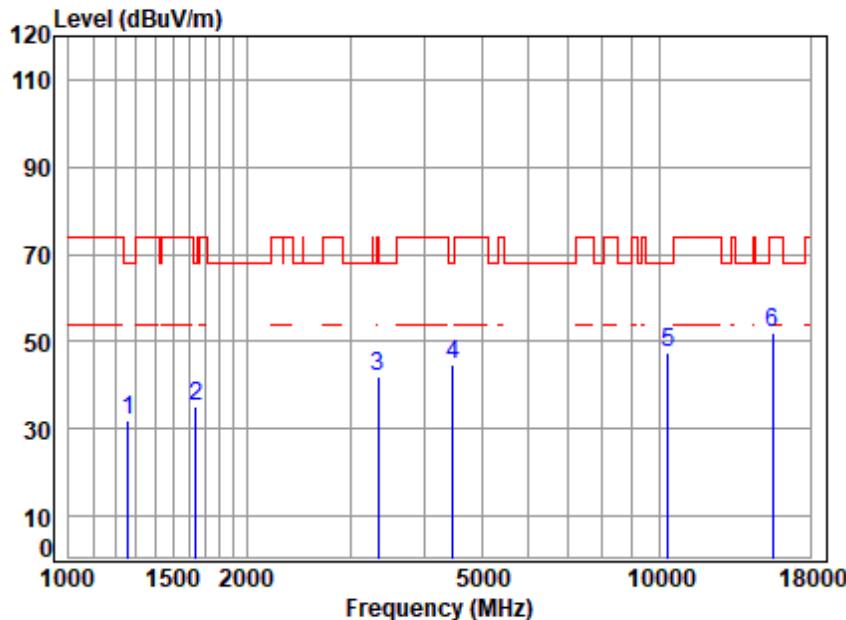
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5180 TX RSE
Note : 5G WIFI 11N20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1148.823	2.67	24.35	40.24	45.80	32.58	74.00	-41.42 peak
2 1677.621	3.41	26.58	40.62	46.34	35.71	74.00	-38.29 peak
3 3299.344	5.27	31.39	41.52	47.24	42.38	68.20	-25.82 peak
4 4405.090	6.67	33.44	42.48	47.31	44.94	68.20	-23.26 peak
5 10360.000	10.57	37.76	38.17	38.92	49.08	68.20	-19.12 peak
6 15540.000	13.97	40.72	40.58	37.88	51.99	74.00	-22.01 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



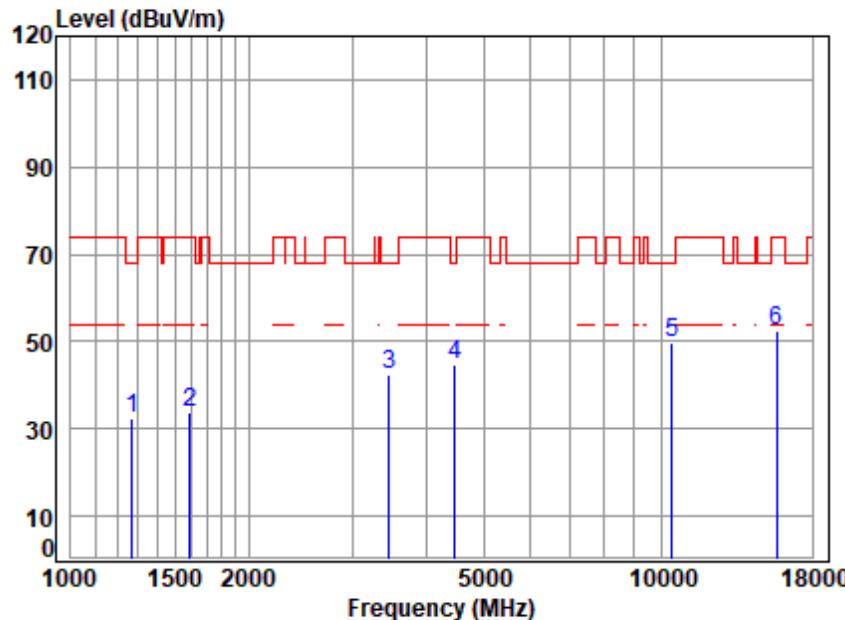
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5180 TX RSE
Note : 5G WIFI 11N20
: 4TX

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	2.87	24.85	40.33	44.49	31.88	68.20	-36.32 peak
2 1639.274	3.38	26.42	40.59	45.96	35.17	68.20	-33.03 peak
3 3337.710	5.32	31.45	41.56	46.66	41.87	74.00	-32.13 peak
4 4469.214	6.73	33.55	42.53	46.83	44.58	68.20	-23.62 peak
5 10360.000	10.57	37.76	38.17	37.41	47.57	68.20	-20.63 peak
6 15540.000	13.97	40.72	40.58	37.94	52.05	74.00	-21.95 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



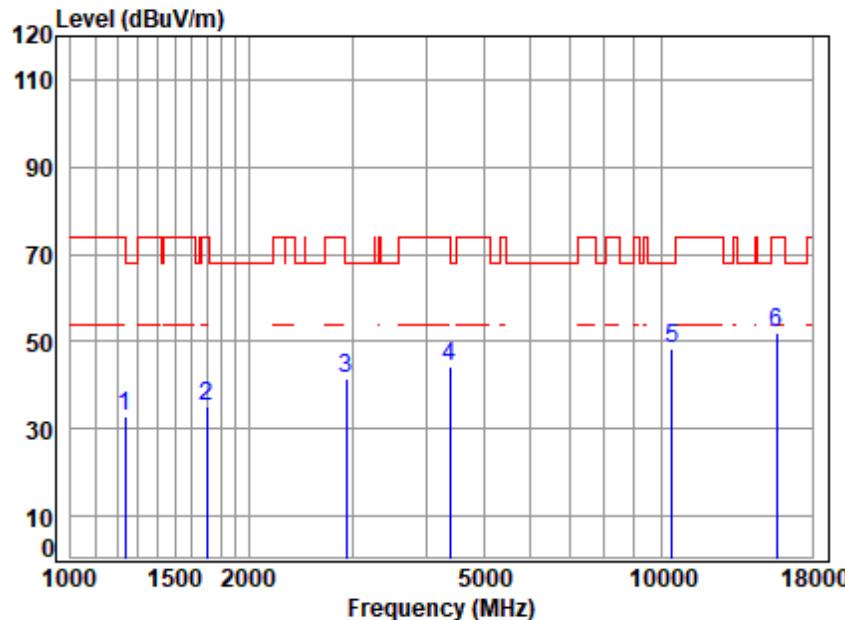
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5220 TX RSE
Note : 5G WIFI 11N20
: 4TX

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	2.89	24.90	40.34	45.00	32.45	68.20	-35.75 peak
2 1592.571	3.34	26.22	40.57	44.93	33.92	74.00	-40.08 peak
3 3465.510	5.48	31.65	41.68	46.99	42.44	68.20	-25.76 peak
4 4469.214	6.73	33.55	42.53	47.18	44.93	68.20	-23.27 peak
5 10440.000	10.55	37.72	38.21	39.55	49.61	68.20	-18.59 peak
6 15660.000	14.02	40.80	40.58	38.28	52.52	74.00	-21.48 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5220 TX RSE
Note : 5G WIFI 11N20
: 4TX

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	2.83	24.76	40.31	45.59	32.87	74.00	-41.13 peak
2 1697.129	3.43	26.66	40.63	45.73	35.19	74.00	-38.81 peak
3 2930.633	4.82	30.62	41.18	47.06	41.32	68.20	-26.88 peak
4 4379.699	6.65	33.39	42.46	46.72	44.30	74.00	-29.70 peak
5 10440.000	10.55	37.72	38.21	38.47	48.53	68.20	-19.67 peak
6 15660.000	14.02	40.80	40.58	37.89	52.13	74.00	-21.87 peak

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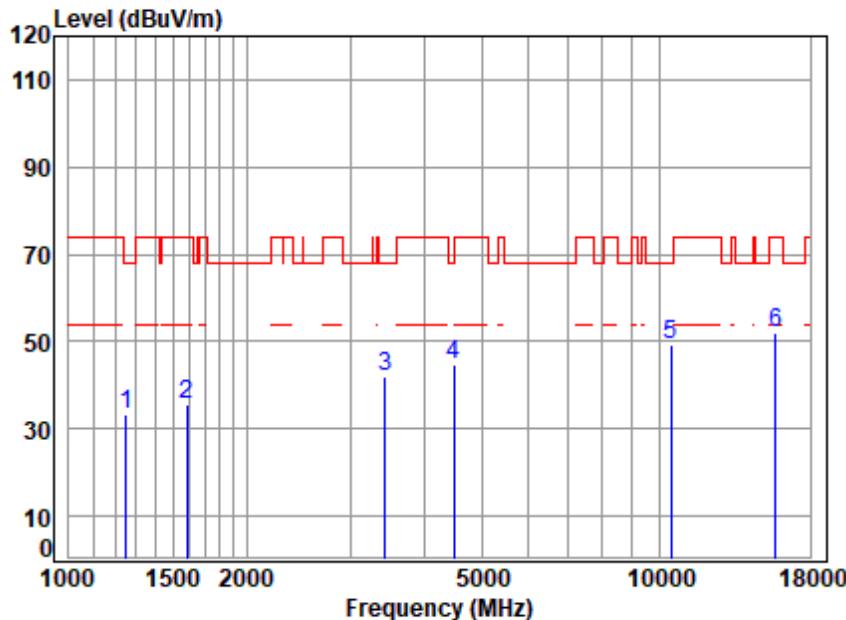
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中国·深圳·科技园中区M-10栋一楼厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



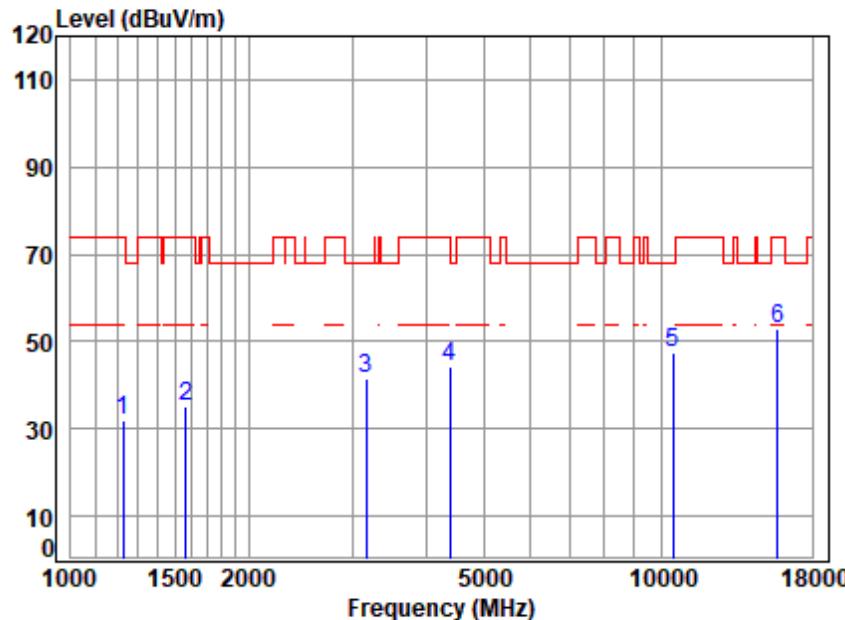
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5240 TX RSE
Note : 5G WIFI 11N20
: 4TX

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	2.85	24.81	40.32	45.87	33.21	68.20	-34.99 peak
2 1583.392	3.33	26.18	40.56	46.44	35.39	74.00	-38.61 peak
3 3435.590	5.44	31.60	41.65	46.78	42.17	68.20	-26.03 peak
4 4482.150	6.74	33.57	42.54	47.02	44.79	68.20	-23.41 peak
5 10480.000	10.54	37.71	38.23	39.31	49.33	68.20	-18.87 peak
6 15720.000	14.04	40.83	40.57	37.58	51.88	74.00	-22.12 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



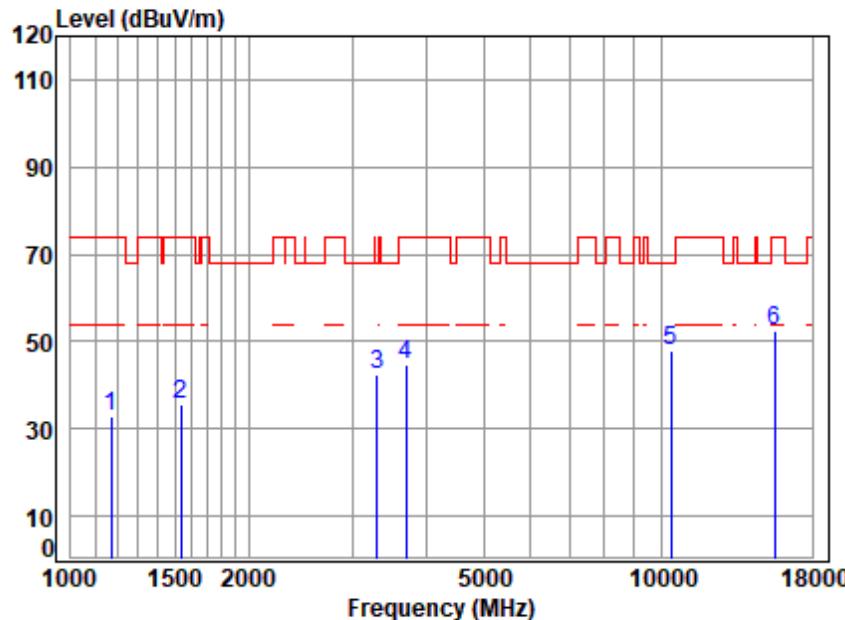
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5240 TX RSE
Note : 5G WIFI 11N20
: 4TX

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	2.82	24.71	40.31	44.89	32.11	74.00	-41.89 peak
2 1569.721	3.32	26.12	40.55	46.35	35.24	74.00	-38.76 peak
3 3168.500	5.09	31.18	41.38	46.73	41.62	68.20	-26.58 peak
4 4379.699	6.65	33.39	42.46	46.84	44.42	74.00	-29.58 peak
5 10480.000	10.54	37.71	38.23	37.29	47.31	68.20	-20.89 peak
6 15720.000	14.04	40.83	40.57	38.67	52.97	74.00	-21.03 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



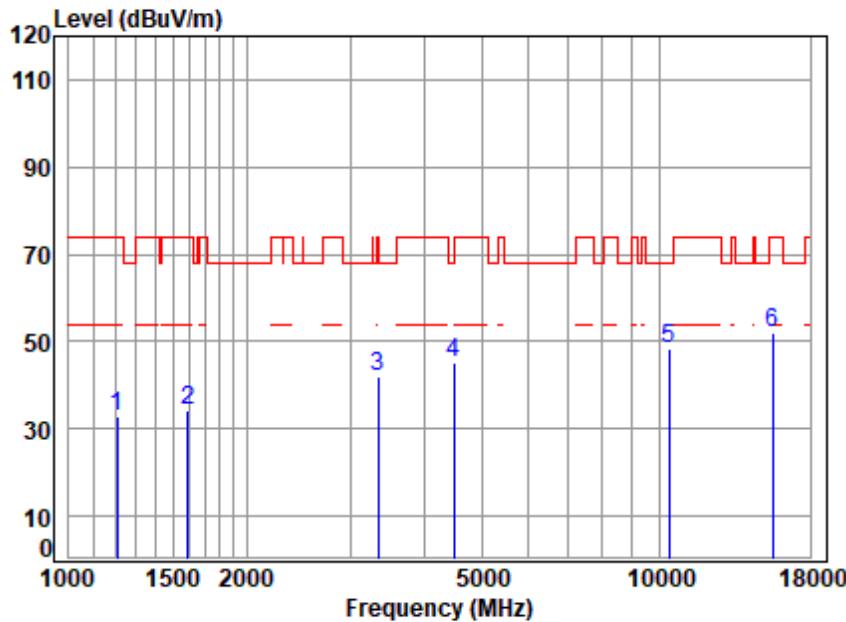
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5190 TX RSE
Note : 5G WIFI 11N40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1168.920	2.71	24.45	40.26	46.05	32.95	74.00	-41.05 peak
2 1538.281	3.29	25.98	40.53	46.63	35.37	74.00	-38.63 peak
3 3299.344	5.27	31.39	41.52	47.21	42.35	68.20	-25.85 peak
4 3693.033	5.83	32.10	41.89	48.49	44.53	74.00	-29.47 peak
5 10380.000	10.57	37.75	38.18	37.98	48.12	68.20	-20.08 peak
6 15570.000	13.98	40.74	40.58	38.25	52.39	74.00	-21.61 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



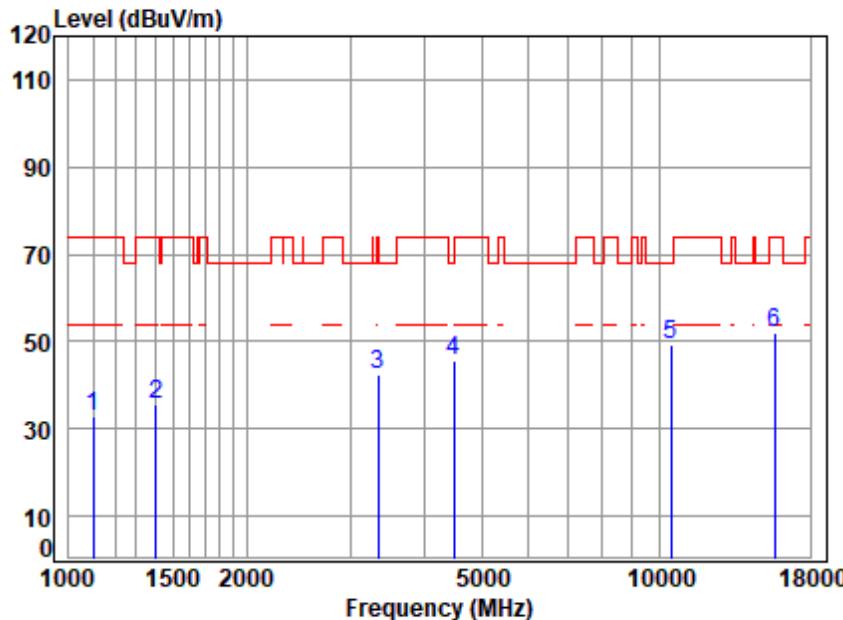
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5190 TX RSE
Note : 5G WIFI 11N40
: 4TX

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 1206.682	2.78	24.62	40.29	45.77	32.88	74.00	-41.12 peak
2 1592.571	3.34	26.22	40.57	45.38	34.37	74.00	-39.63 peak
3 3337.710	5.32	31.45	41.56	46.66	41.87	74.00	-32.13 peak
4 4495.125	6.76	33.59	42.55	47.28	45.08	68.20	-23.12 peak
5 10380.000	10.57	37.75	38.18	38.34	48.48	68.20	-19.72 peak
6 15570.000	13.98	40.74	40.58	37.66	51.80	74.00	-22.20 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



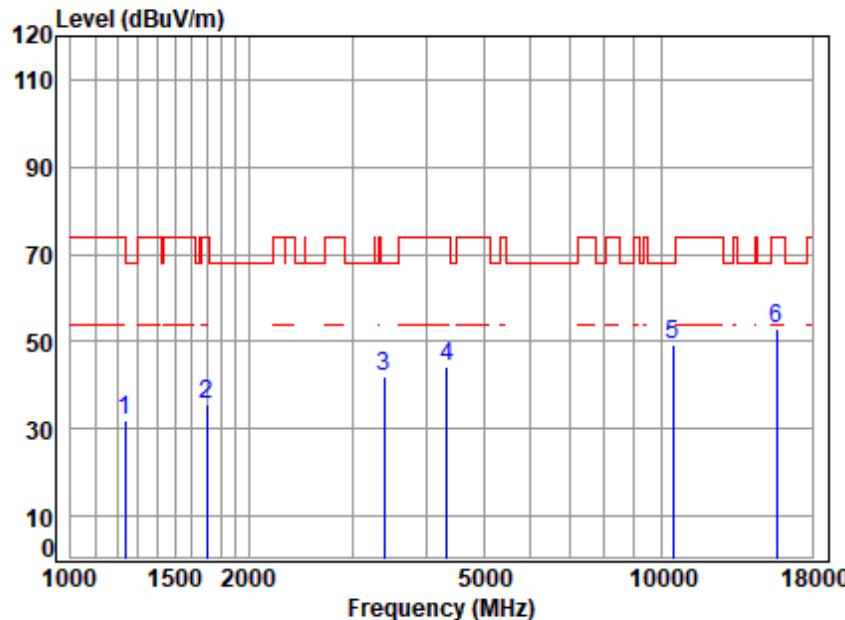
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5230 TX RSE
Note : 5G WIFI 11N40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1100.079	2.57	24.12	40.20	46.57	33.06	74.00	-40.94 peak
2 1406.443	3.12	25.45	40.44	47.26	35.39	74.00	-38.61 peak
3 3347.371	5.33	31.47	41.56	47.33	42.57	74.00	-31.43 peak
4 4495.125	6.76	33.59	42.55	48.01	45.81	68.20	-22.39 peak
5 10460.000	10.54	37.72	38.22	39.35	49.39	68.20	-18.81 peak
6 15690.000	14.03	40.82	40.58	37.53	51.80	74.00	-22.20 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



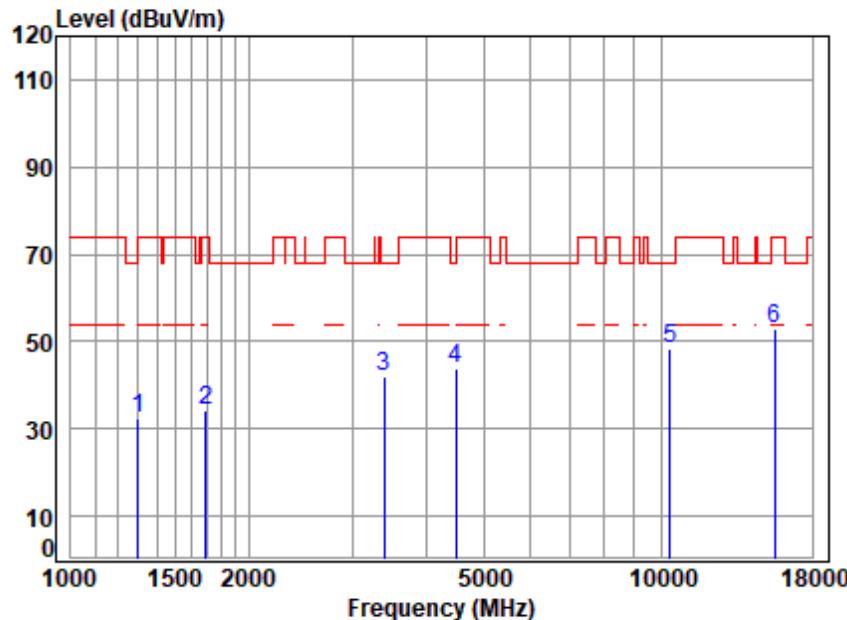
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5230 TX RSE
Note : 5G WIFI 11N40
: 4TX

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	2.83	24.74	40.31	44.75	32.01	74.00	-41.99 peak
2	1697.129	3.43	26.66	40.63	46.13	35.59	74.00	-38.41 peak
3	3396.098	5.39	31.54	41.61	46.82	42.14	68.20	-26.06 peak
4	4329.354	6.60	33.30	42.42	46.83	44.31	74.00	-29.69 peak
5	10460.000	10.54	37.72	38.22	39.08	49.12	68.20	-19.08 peak
6	15690.000	14.03	40.82	40.58	38.84	53.11	74.00	-20.89 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



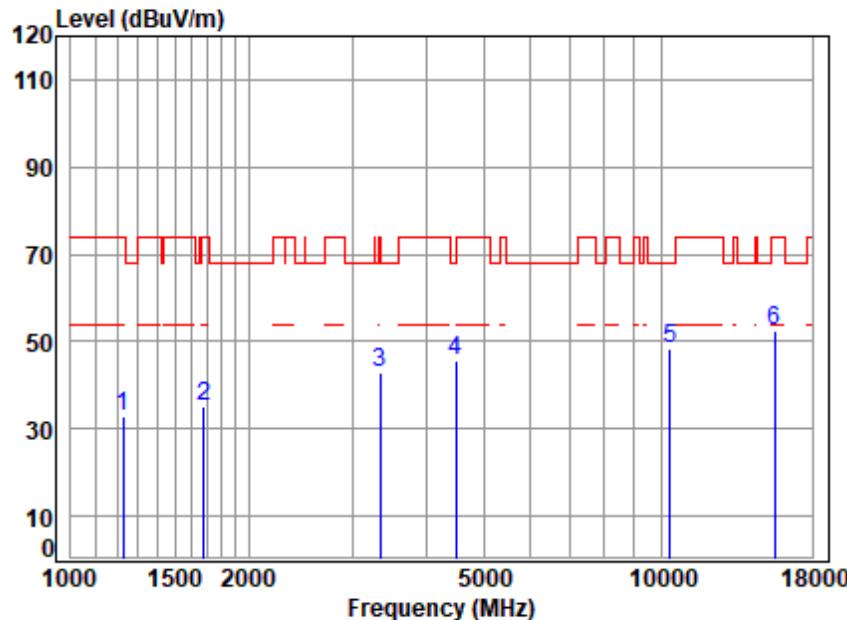
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5180 TX RSE
Note : 5G WIFI 11AC20
: 4TX

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 1300.858	2.94	25.03	40.36	44.92	32.53	74.00	-41.47 peak
2 1692.231	3.42	26.64	40.63	45.00	34.43	74.00	-39.57 peak
3 3396.098	5.39	31.54	41.61	46.43	41.75	68.20	-26.45 peak
4 4495.125	6.76	33.59	42.55	46.21	44.01	68.20	-24.19 peak
5 10360.000	10.57	37.76	38.17	38.09	48.25	68.20	-19.95 peak
6 15540.000	13.97	40.72	40.58	38.80	52.91	74.00	-21.09 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



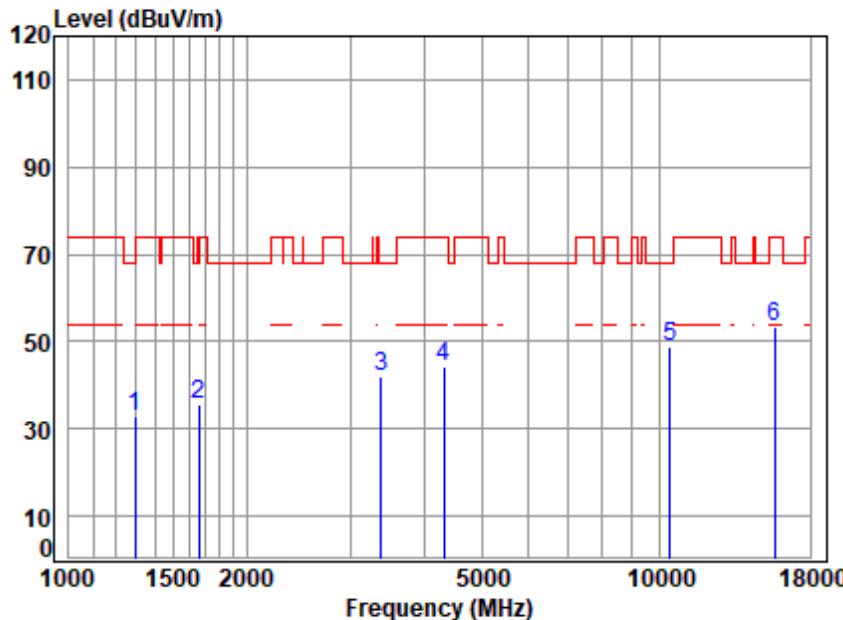
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5180 TX RSE
Note : 5G WIFI 11AC20
: 4TX

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1227.791	2.82	24.71	40.31	45.62	32.84	74.00	-41.16 peak
2 1677.621	3.41	26.58	40.62	45.71	35.08	74.00	-38.92 peak
3 3347.371	5.33	31.47	41.56	47.73	42.97	74.00	-31.03 peak
4 4495.125	6.76	33.59	42.55	47.61	45.41	68.20	-22.79 peak
5 10360.000	10.57	37.76	38.17	38.41	48.57	68.20	-19.63 peak
6 15540.000	13.97	40.72	40.58	38.18	52.29	74.00	-21.71 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



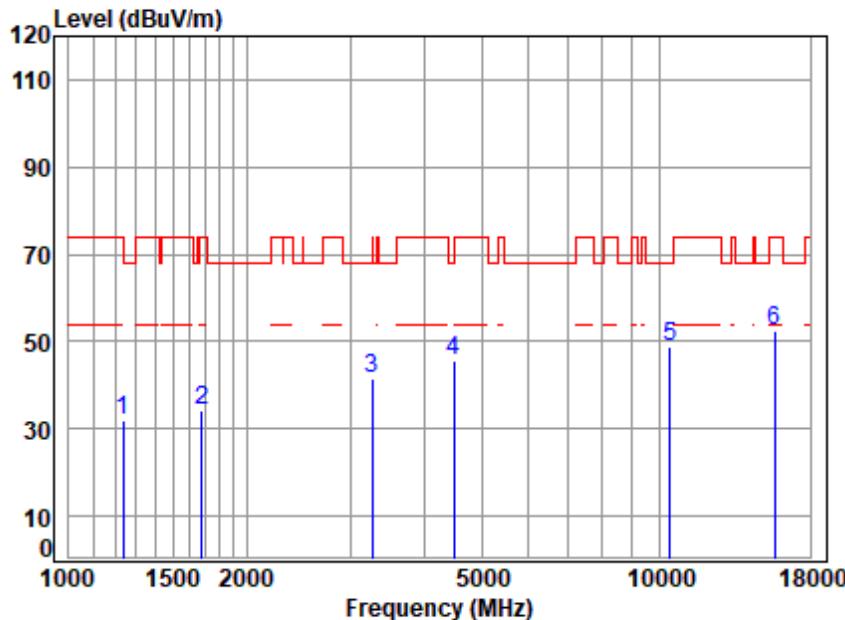
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5220 TX RSE
Note : 5G WIFI 11AC20
: 4TX

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	2.93	25.00	40.36	45.18	32.75	68.20	-35.45 peak
2 1663.137	3.40	26.52	40.61	46.20	35.51	74.00	-38.49 peak
3 3386.297	5.38	31.53	41.60	46.88	42.19	68.20	-26.01 peak
4 4316.859	6.59	33.28	42.41	46.99	44.45	74.00	-29.55 peak
5 10440.000	10.55	37.72	38.21	38.77	48.83	68.20	-19.37 peak
6 15660.000	14.02	40.80	40.58	39.20	53.44	74.00	-20.56 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5220 TX RSE
Note : 5G WIFI 11AC20
: 4TX

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	2.83	24.74	40.31	44.73	31.99	74.00	-42.01 peak
2 1677.621	3.41	26.58	40.62	44.85	34.22	74.00	-39.78 peak
3 3261.418	5.22	31.33	41.48	46.39	41.46	74.00	-32.54 peak
4 4482.150	6.74	33.57	42.54	47.98	45.75	68.20	-22.45 peak
5 10440.000	10.55	37.72	38.21	38.83	48.89	68.20	-19.31 peak
6 15660.000	14.02	40.80	40.58	38.45	52.69	74.00	-21.31 peak

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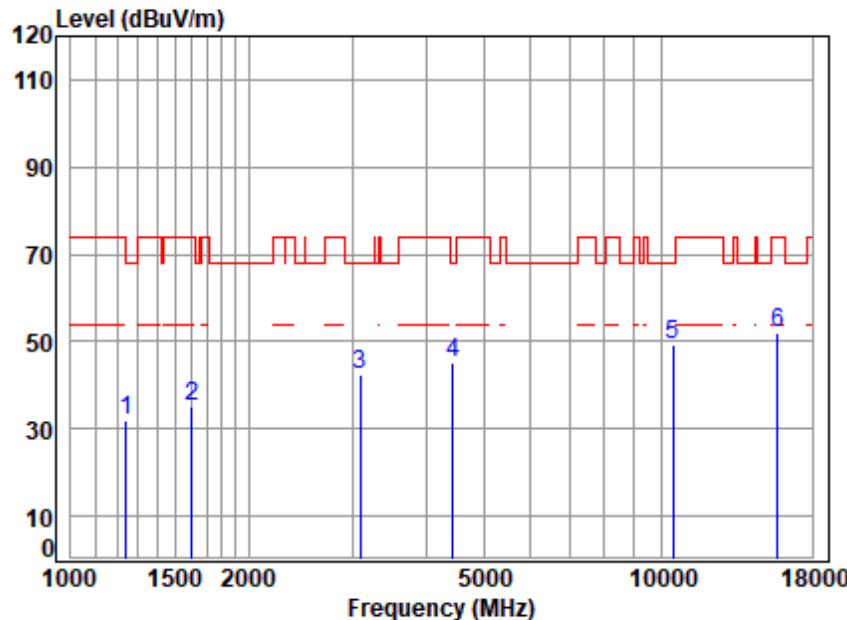
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5240 TX RSE
Note : 5G WIFI 11AC20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1242.068	2.84	24.78	40.32	44.53	31.83	68.20	-36.37 peak
2 1606.441	3.35	26.28	40.57	46.12	35.18	74.00	-38.82 peak
3 3087.140	4.98	31.05	41.30	47.53	42.26	68.20	-25.94 peak
4 4430.628	6.70	33.48	42.50	47.58	45.26	68.20	-22.94 peak
5 10480.000	10.54	37.71	38.23	39.36	49.38	68.20	-18.82 peak
6 15720.000	14.04	40.83	40.57	37.69	51.99	74.00	-22.01 peak

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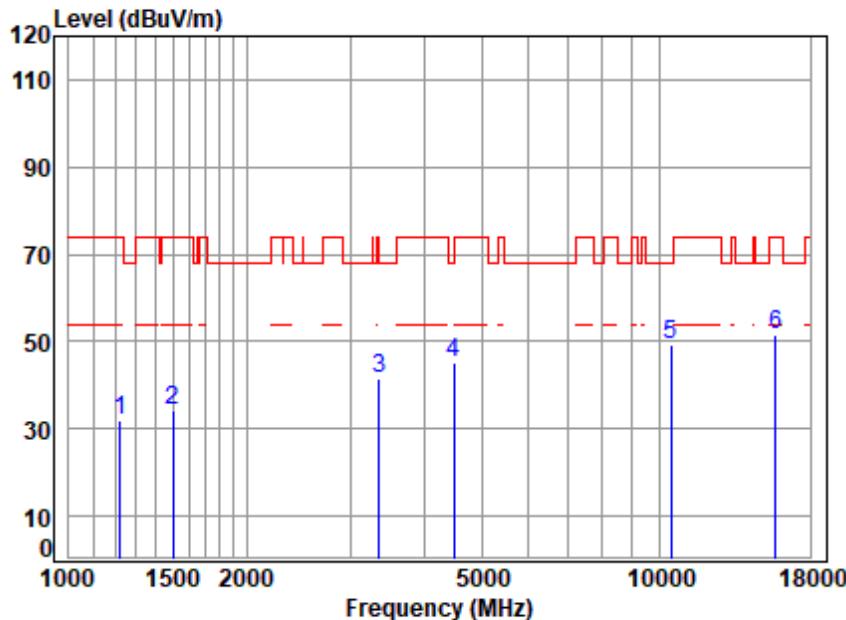
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5240 TX RSE
Note : 5G WIFI 11AC20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1224.247	2.81	24.70	40.30	44.85	32.06	74.00	-41.94 peak
2 1503.119	3.26	25.81	40.51	45.67	34.23	74.00	-39.77 peak
3 3357.061	5.34	31.48	41.57	46.07	41.32	74.00	-32.68 peak
4 4495.125	6.76	33.59	42.55	47.15	44.95	68.20	-23.25 peak
5 10480.000	10.54	37.71	38.23	39.27	49.29	68.20	-18.91 peak
6 15720.000	14.04	40.83	40.57	37.48	51.78	74.00	-22.22 peak

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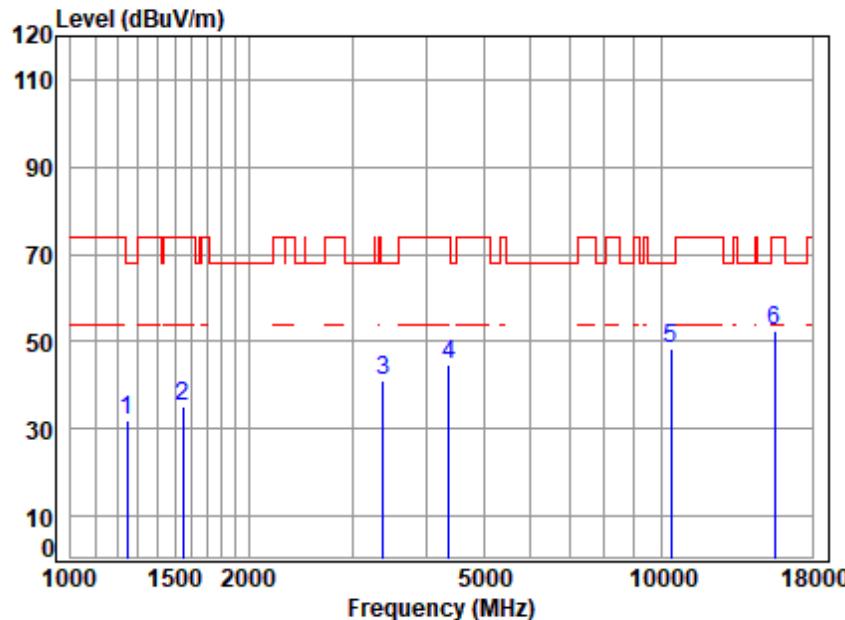
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



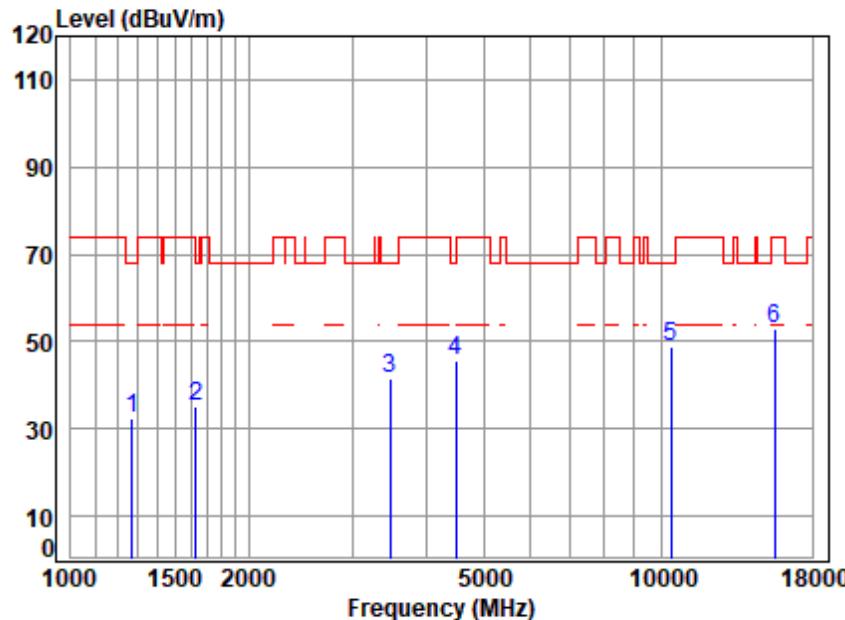
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5190 TX RSE
Note : 5G WIFI 11AC40
: 4TX

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 1245.663	2.85	24.79	40.32	44.58	31.90	68.20	-36.30 peak
2 1547.199	3.30	26.02	40.54	46.25	35.03	74.00	-38.97 peak
3 3386.297	5.38	31.53	41.60	45.98	41.29	68.20	-26.91 peak
4 4367.058	6.64	33.37	42.45	47.27	44.83	74.00	-29.17 peak
5 10380.000	10.57	37.75	38.18	38.12	48.26	68.20	-19.94 peak
6 15570.000	13.98	40.74	40.58	38.13	52.27	74.00	-21.73 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



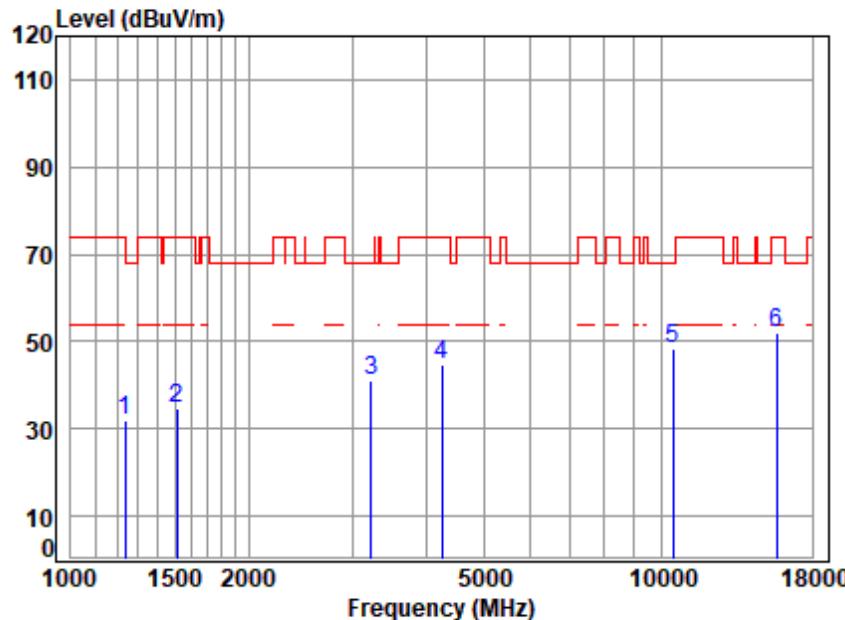
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5190 TX RSE
Note : 5G WIFI 11AC40
: 4TX

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	2.89	24.90	40.34	44.93	32.38	68.20	-35.82 peak
2 1629.825	3.37	26.38	40.59	45.80	34.96	68.20	-33.24 peak
3 3475.541	5.49	31.66	41.69	46.25	41.71	68.20	-26.49 peak
4 4482.150	6.74	33.57	42.54	47.86	45.63	68.20	-22.57 peak
5 10380.000	10.57	37.75	38.18	38.79	48.93	68.20	-19.27 peak
6 15570.000	13.98	40.74	40.58	38.81	52.95	74.00	-21.05 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



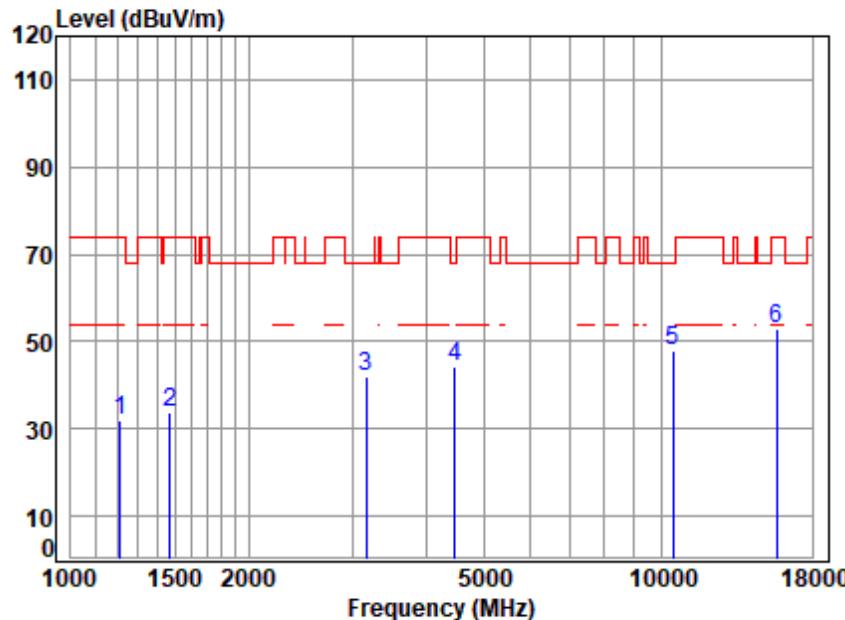
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5230 TX RSE
Note : 5G WIFI 11AC40
: 4TX

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	2.83	24.74	40.31	44.71	31.97	74.00	-42.03 peak
2	1511.833	3.27	25.85	40.51	45.95	34.56	74.00	-39.44 peak
3	3223.928	5.17	31.27	41.44	46.22	41.22	68.20	-26.98 peak
4	4242.641	6.52	33.15	42.35	47.20	44.52	74.00	-29.48 peak
5	10460.000	10.54	37.72	38.22	38.32	48.36	68.20	-19.84 peak
6	15690.000	14.03	40.82	40.58	37.57	51.84	74.00	-22.16 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



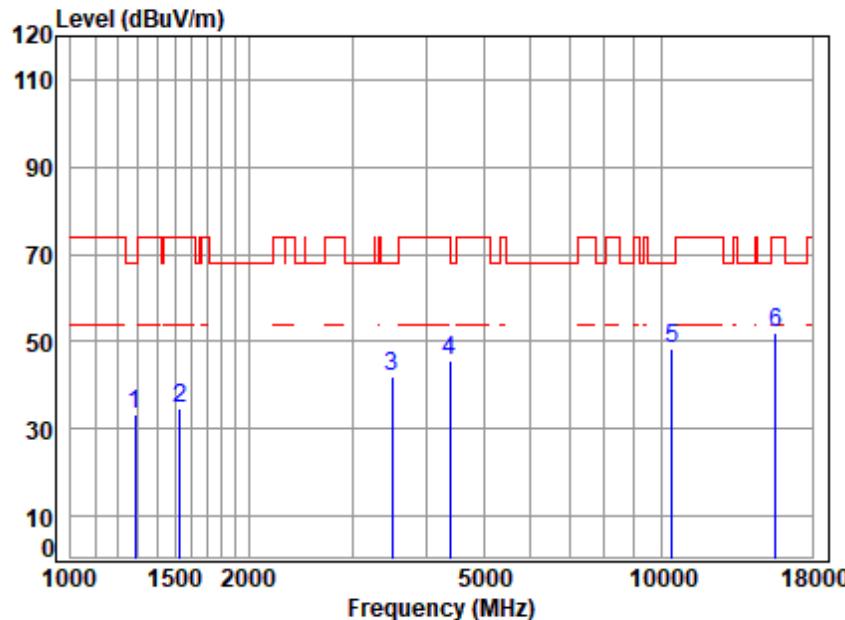
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5230 TX RSE
Note : 5G WIFI 11AC40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1213.677	2.79	24.65	40.29	44.97	32.12	74.00	-41.88 peak
2	1473.013	3.22	25.70	40.49	45.45	33.88	74.00	-40.12 peak
3	3168.500	5.09	31.18	41.38	47.29	42.18	68.20	-26.02 peak
4	4469.214	6.73	33.55	42.53	46.56	44.31	68.20	-23.89 peak
5	10460.000	10.54	37.72	38.22	37.93	47.97	68.20	-20.23 peak
6	15690.000	14.03	40.82	40.58	38.50	52.77	74.00	-21.23 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



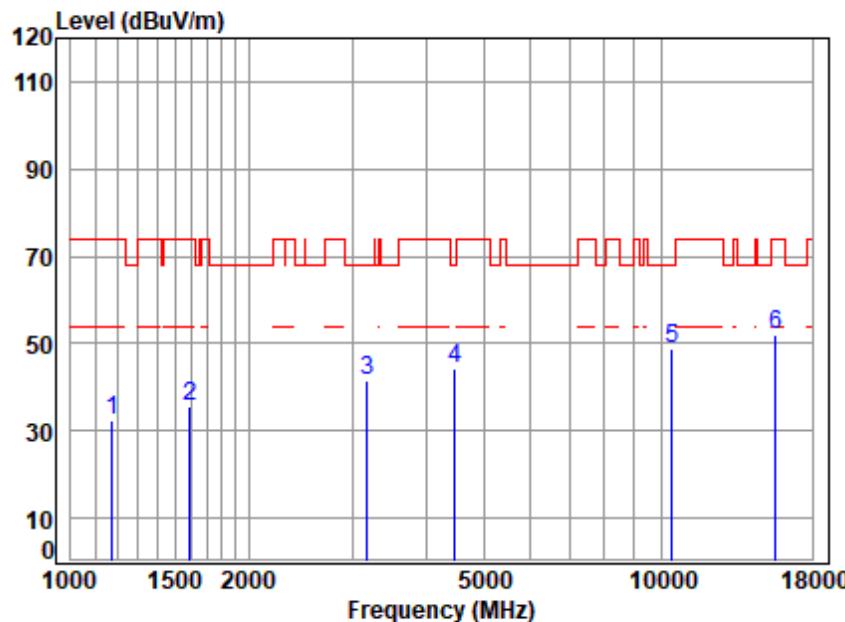
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5210 TX RSE
Note : 5G WIFI 11AC80
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1285.904	2.92	24.96	40.35	45.88	33.41	68.20	-34.79 peak
2	1529.414	3.29	25.94	40.53	46.02	34.72	74.00	-39.28 peak
3	3495.691	5.51	31.69	41.71	46.54	42.03	68.20	-26.17 peak
4	4379.699	6.65	33.39	42.46	48.01	45.59	74.00	-28.41 peak
5	10420.000	10.56	37.73	38.20	38.47	48.56	68.20	-19.64 peak
6	15630.000	14.01	40.78	40.58	37.96	52.17	74.00	-21.83 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5210 TX RSE
Note : 5G WIFI 11AC80
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1175.697	2.72	24.48	40.26	45.25	32.19	74.00	-41.81 peak
2 1592.571	3.34	26.22	40.57	46.60	35.59	74.00	-38.41 peak
3 3177.672	5.11	31.20	41.39	46.46	41.38	68.20	-26.82 peak
4 4469.214	6.73	33.55	42.53	46.62	44.37	68.20	-23.83 peak
5 10420.000	10.56	37.73	38.20	38.94	49.03	68.20	-19.17 peak
6 15630.000	14.01	40.78	40.58	37.72	51.93	74.00	-22.07 peak

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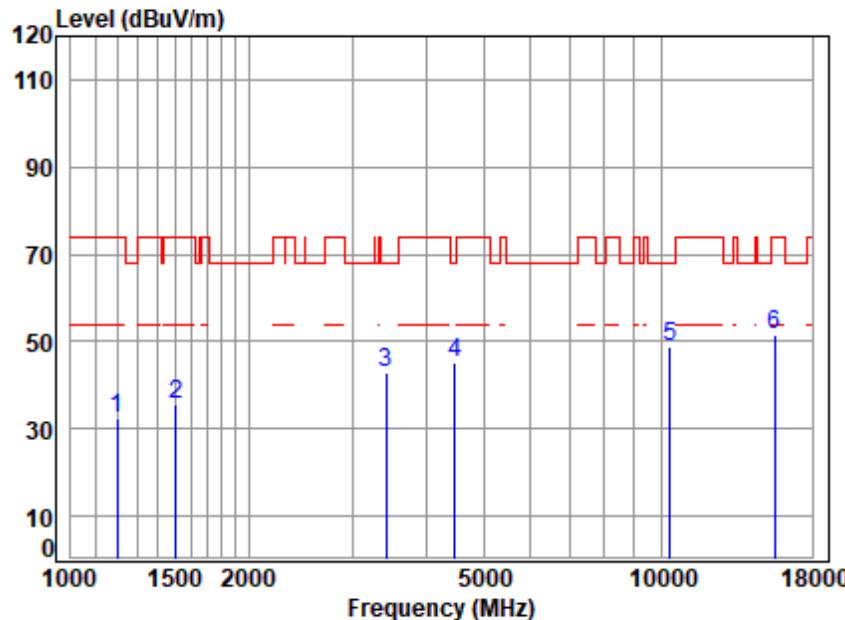
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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:Low



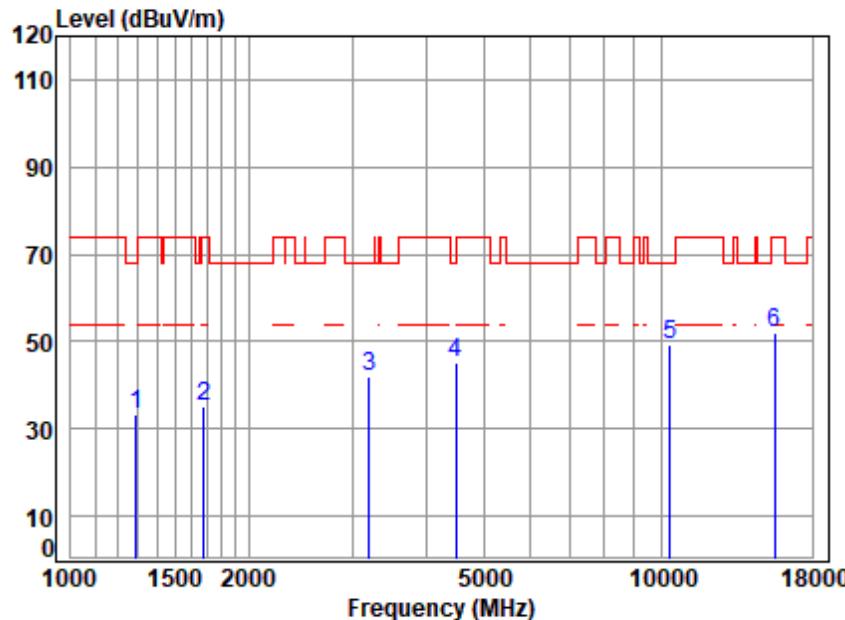
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5180 TX RSE
Note : 5G WIFI 11AX 20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1196.264	2.76	24.57	40.28	45.42	32.47	74.00	-41.53 peak
2 1507.470	3.27	25.83	40.51	47.15	35.74	74.00	-38.26 peak
3 3425.675	5.43	31.59	41.64	47.35	42.73	68.20	-25.47 peak
4 4469.214	6.73	33.55	42.53	47.60	45.35	68.20	-22.85 peak
5 10360.000	10.57	37.76	38.17	38.89	49.05	68.20	-19.15 peak
6 15540.000	13.97	40.72	40.58	37.43	51.54	74.00	-22.46 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:Low



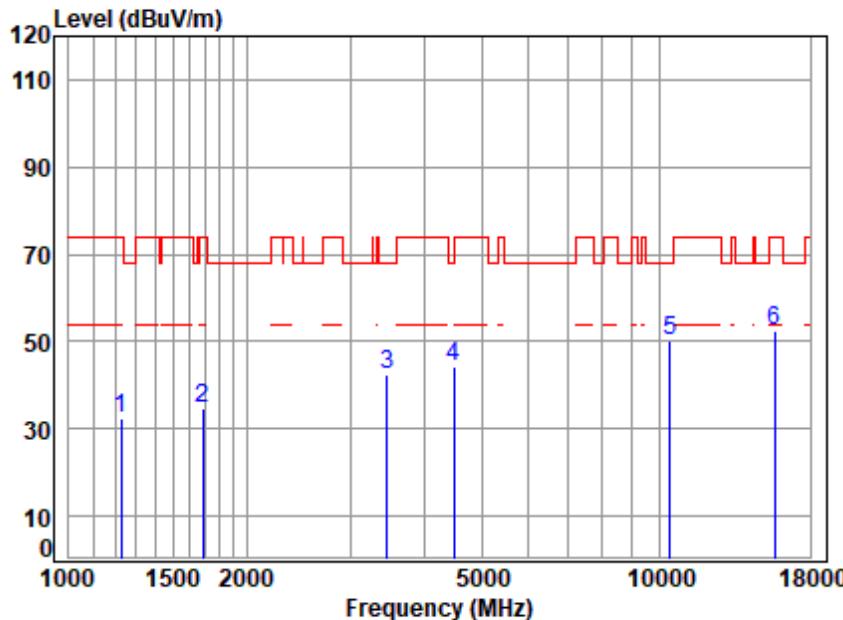
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5180 TX RSE
Note : 5G WIFI 11AX 20
: 4TX

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	2.92	24.98	40.35	45.54	33.09	68.20 -35.11 peak
2	1677.621	3.41	26.58	40.62	45.86	35.23	74.00 -38.77 peak
3	3205.345	5.14	31.24	41.42	47.05	42.01	68.20 -26.19 peak
4	4482.150	6.74	33.57	42.54	47.56	45.33	68.20 -22.87 peak
5	10360.000	10.57	37.76	38.17	38.89	49.05	68.20 -19.15 peak
6	15540.000	13.97	40.72	40.58	38.12	52.23	74.00 -21.77 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:middle



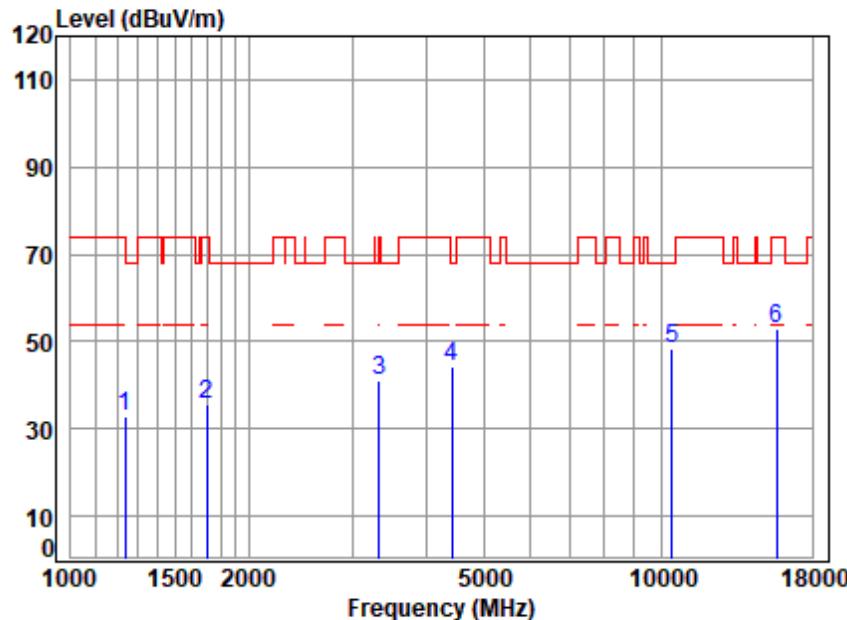
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5220 TX RSE
Note : 5G WIFI 11AX 20
: 4TX

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	2.82	24.71	40.31	45.25	32.47	74.00	-41.53 peak
2 1687.347	3.42	26.62	40.62	45.25	34.67	74.00	-39.33 peak
3 3465.510	5.48	31.65	41.68	47.11	42.56	68.20	-25.64 peak
4 4495.125	6.76	33.59	42.55	46.65	44.45	68.20	-23.75 peak
5 10440.000	10.55	37.72	38.21	40.26	50.32	68.20	-17.88 peak
6 15660.000	14.02	40.80	40.58	38.23	52.47	74.00	-21.53 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5220 TX RSE
Note : 5G WIFI 11AX 20
: 4TX

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	2.83	24.76	40.31	45.35	32.63	74.00	-41.37 peak
2 1697.129	3.43	26.66	40.63	46.24	35.70	74.00	-38.30 peak
3 3328.077	5.30	31.44	41.55	46.08	41.27	68.20	-26.93 peak
4 4417.841	6.68	33.46	42.49	46.82	44.47	68.20	-23.73 peak
5 10440.000	10.55	37.72	38.21	38.17	48.23	68.20	-19.97 peak
6 15660.000	14.02	40.80	40.58	38.91	53.15	74.00	-20.85 peak

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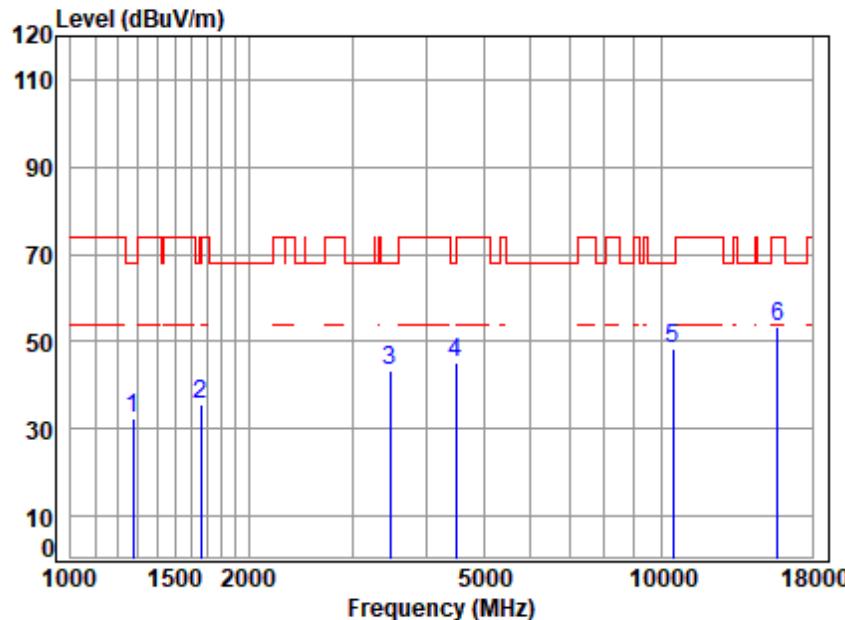
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5240 TX RSE
Note : 5G WIFI 11AX 20
: 4TX

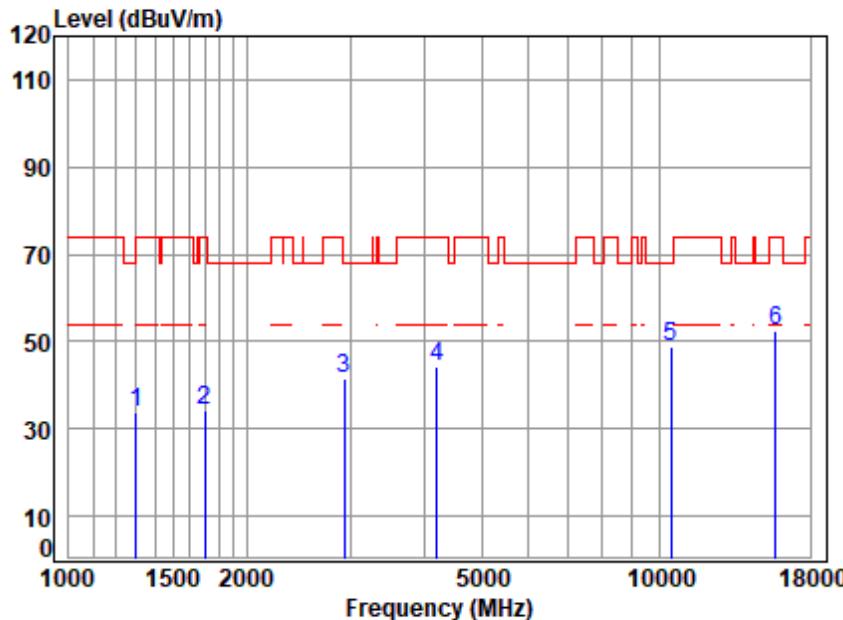
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1274.802	2.90	24.92	40.34	44.76	32.24	68.20	-35.96 peak
2 1663.137	3.40	26.52	40.61	46.38	35.69	74.00	-38.31 peak
3 3475.541	5.49	31.66	41.69	47.89	43.35	68.20	-24.85 peak
4 4482.150	6.74	33.57	42.54	47.50	45.27	68.20	-22.93 peak
5 10480.000	10.54	37.71	38.23	38.47	48.49	68.20	-19.71 peak
6 15720.000	14.04	40.83	40.57	38.91	53.21	74.00	-20.79 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5240 TX RSE
Note : 5G WIFI 11AX 20
: 4TX

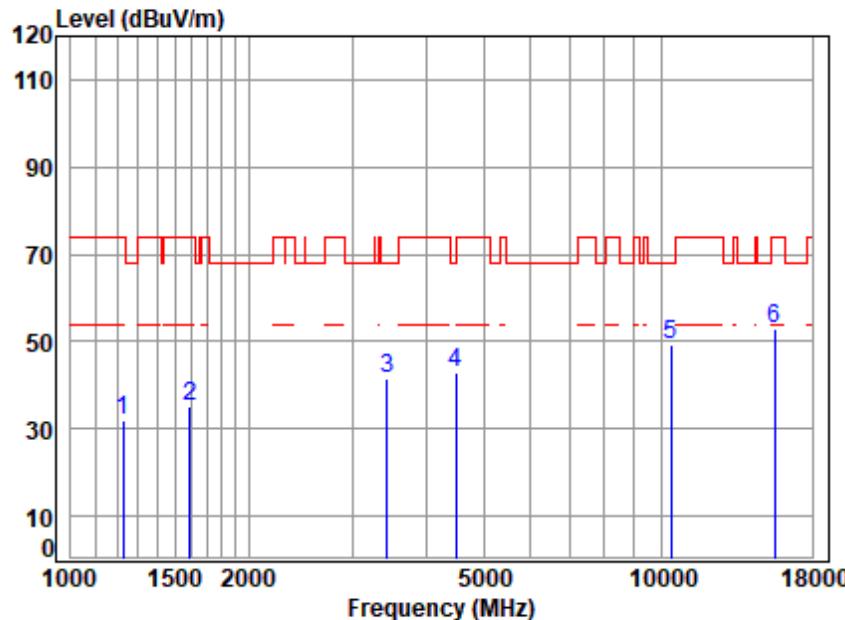
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1300.858	2.94	25.03	40.36	46.09	33.70	74.00	-40.30 peak
2 1697.129	3.43	26.66	40.63	44.97	34.43	74.00	-39.57 peak
3 2930.633	4.82	30.62	41.18	47.44	41.70	68.20	-26.50 peak
4 4193.872	6.47	33.06	42.31	47.20	44.42	74.00	-29.58 peak
5 10480.000	10.54	37.71	38.23	38.95	48.97	68.20	-19.23 peak
6 15720.000	14.04	40.83	40.57	38.11	52.41	74.00	-21.59 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low



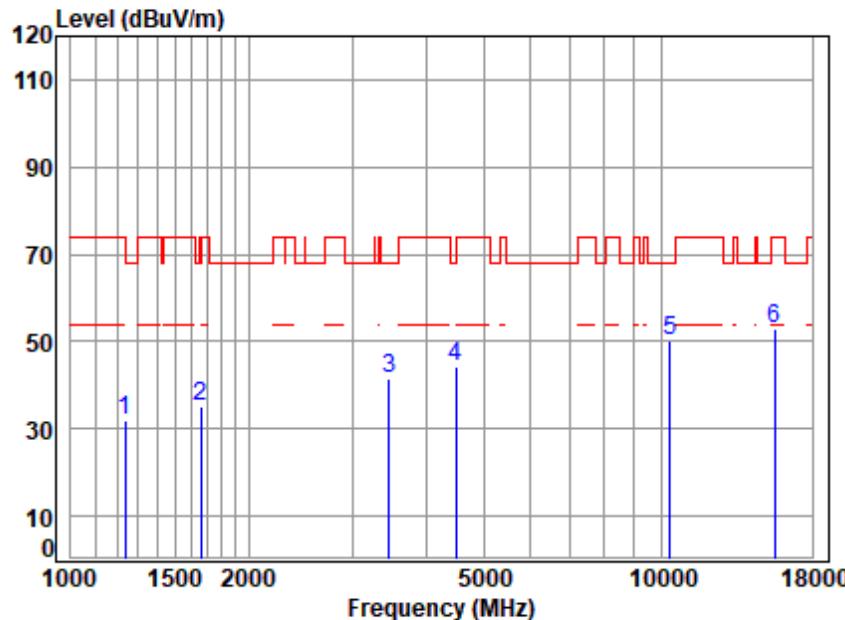
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5190 TX RSE
Note : 5G WIFI 11AX 40
: 4TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.791	2.82	24.71	40.31	44.56	31.78	74.00	-42.22	peak
2	1592.571	3.34	26.22	40.57	46.05	35.04	74.00	-38.96	peak
3	3435.590	5.44	31.60	41.65	45.95	41.34	68.20	-26.86	peak
4	4482.150	6.74	33.57	42.54	45.10	42.87	68.20	-25.33	peak
5	10380.000	10.56	37.74	38.19	39.38	49.49	68.20	-18.71	Peak
6	15570.000	13.98	40.75	40.58	38.72	52.87	74.00	-21.13	Peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5190 TX RSE
Note : 5G WIFI 11AX 40
: 4TX

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	2.83	24.74	40.31	44.82	32.08	74.00	-41.92 peak
2	1663.137	3.40	26.52	40.61	45.79	35.10	74.00	-38.90 peak
3	3455.508	5.47	31.63	41.67	45.88	41.31	68.20	-26.89 peak
4	4495.125	6.76	33.59	42.55	46.52	44.32	68.20	-23.88 peak
5	10360.000	10.57	37.76	38.17	39.93	50.09	68.20	-18.11 peak
6	15540.000	13.97	40.72	40.58	38.60	52.71	74.00	-21.29 peak

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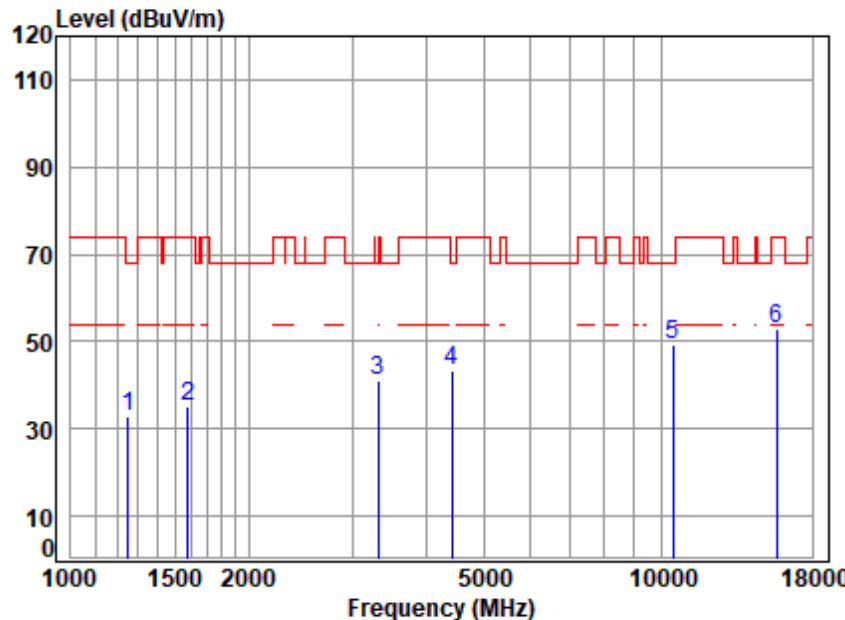
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5230 TX RSE
Note : 5G WIFI 11AX 40
: 4TX

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	2.85	24.81	40.32	45.30	32.64	68.20	-35.56 peak
2 1578.822	3.33	26.16	40.56	46.01	34.94	74.00	-39.06 peak
3 3318.471	5.29	31.42	41.54	45.88	41.05	68.20	-27.15 peak
4 4417.841	6.68	33.46	42.49	45.64	43.29	68.20	-24.91 peak
5 10460.000	10.54	37.72	38.22	39.03	49.07	68.20	-19.13 Peak
6 15690.000	14.02	40.80	40.58	38.82	53.06	74.00	-20.94 Peak

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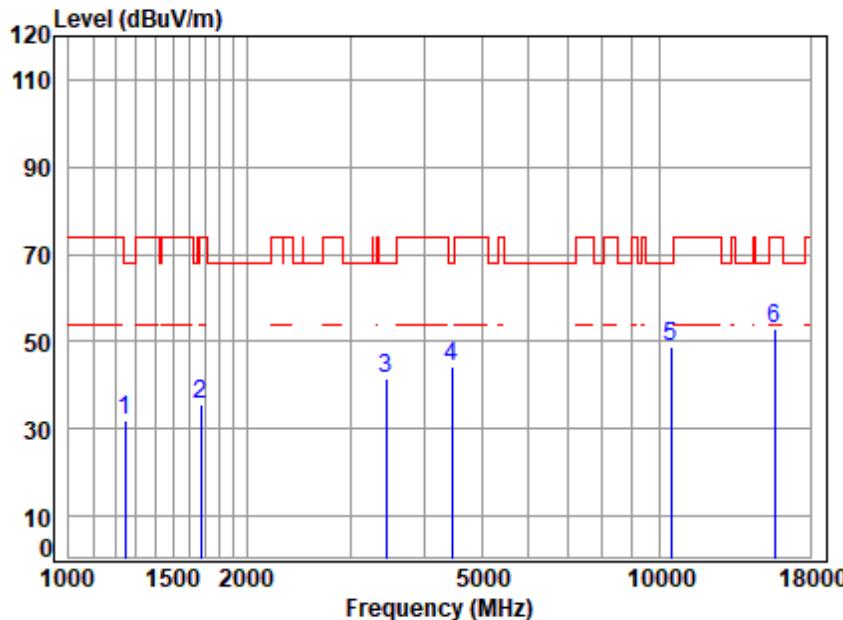
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:High



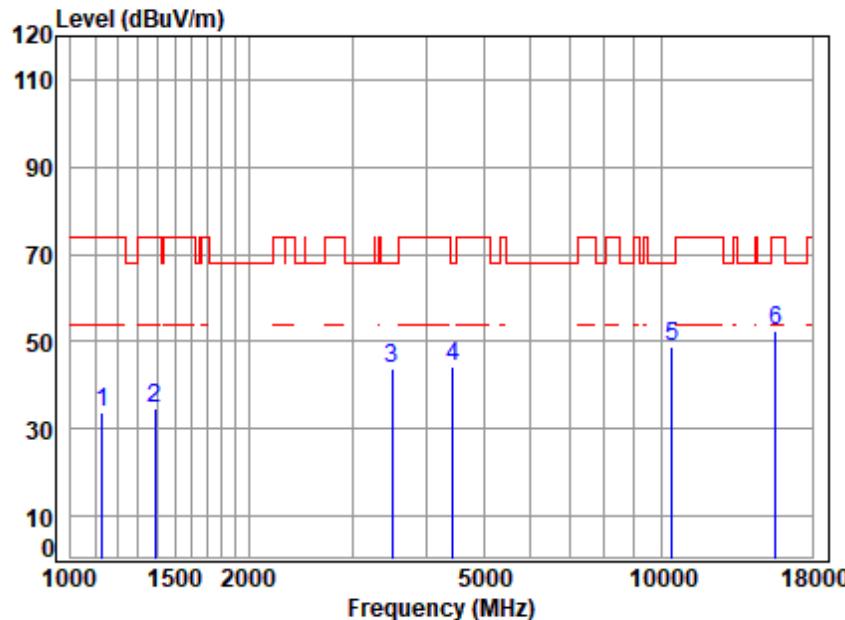
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5230 TX RSE
Note : 5G WIFI 11AX 40
: 4TX

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	2.85	24.79	40.32	44.61	31.93	68.20	-36.27 peak
2 1672.779	3.41	26.56	40.62	46.15	35.50	74.00	-38.50 peak
3 3445.535	5.45	31.62	41.66	46.04	41.45	68.20	-26.75 peak
4 4456.315	6.72	33.53	42.52	46.72	44.45	68.20	-23.75 peak
5 10460.000	10.55	37.72	38.21	38.63	48.69	68.20	-19.51 peak
6 15690.000	14.02	40.80	40.58	38.61	52.85	74.00	-21.15 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:80MHz; Channel:middle



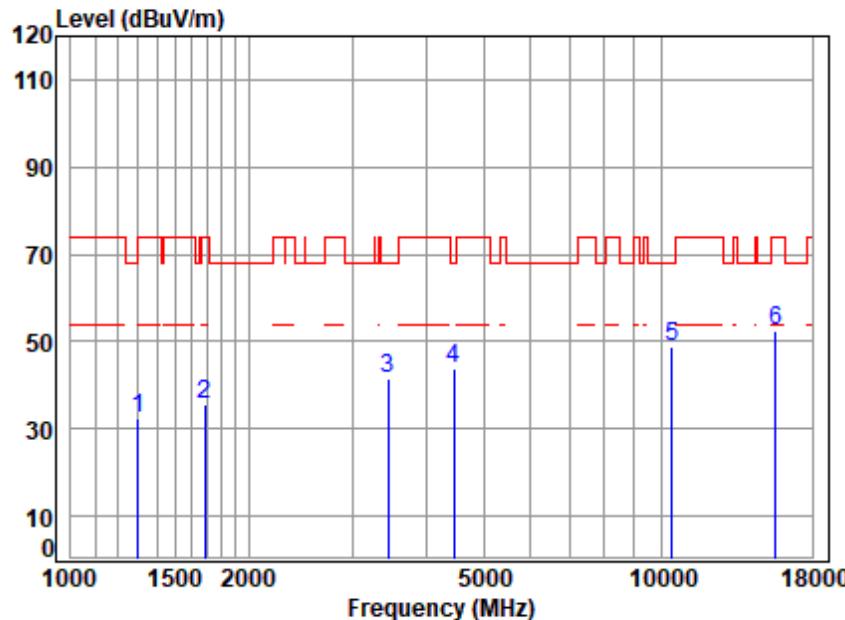
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5210 TX RSE
Note : 5G WIFI 11AX 80
: 4TX

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	2.64	24.27	40.22	47.00	33.69	74.00	-40.31 peak
2 1390.276	3.09	25.39	40.43	46.66	34.71	74.00	-39.29 peak
3 3495.691	5.51	31.69	41.71	48.09	43.58	68.20	-24.62 peak
4 4430.628	6.70	33.48	42.50	46.61	44.29	68.20	-23.91 peak
5 10420.000	10.57	37.76	38.17	38.54	48.70	68.20	-19.50 peak
6 15630.000	13.97	40.72	40.58	38.17	52.28	74.00	-21.72 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5210 TX RSE
Note : 5G WIFI 11AX 80
: 4TX

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	2.94	25.03	40.36	44.89	32.50	74.00	-41.50 peak
2 1687.347	3.42	26.62	40.62	46.27	35.69	74.00	-38.31 peak
3 3445.535	5.45	31.62	41.66	46.17	41.58	68.20	-26.62 peak
4 4456.315	6.72	33.53	42.52	46.17	43.90	68.20	-24.30 peak
5 10420.000	10.57	37.76	38.17	38.59	48.75	68.20	-19.45 peak
6 15630.000	13.97	40.72	40.58	38.16	52.27	74.00	-21.73 peak

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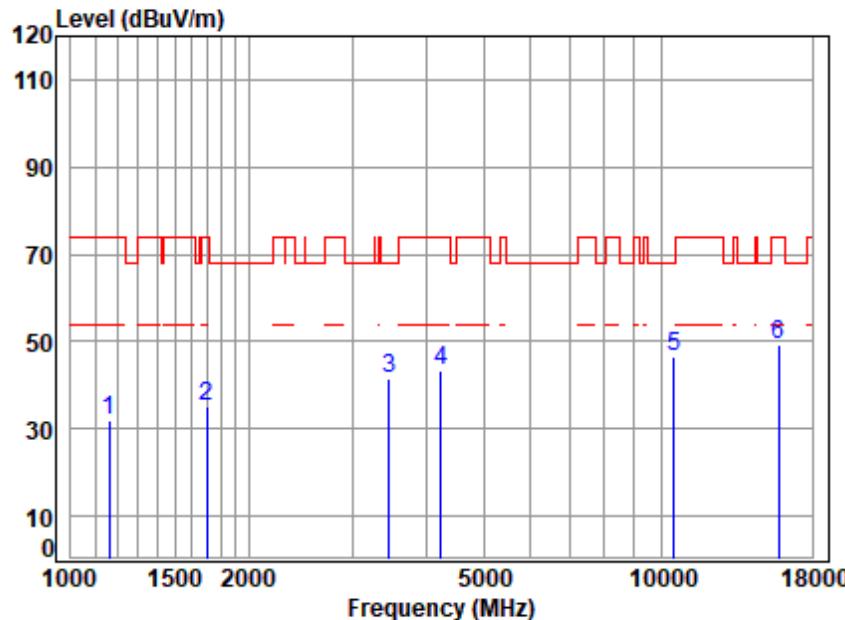
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5260 TX RSE
Note : 5G WIFI 11A
: 1TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1162.182	2.69	24.42	40.25	44.95	31.81	74.00	-42.19 peak
2 1697.129	3.43	26.66	40.63	45.87	35.33	74.00	-38.67 peak
3 3465.510	5.48	31.65	41.68	46.04	41.49	68.20	-26.71 peak
4 4230.396	6.51	33.13	42.34	45.87	43.17	74.00	-30.83 peak
5 10520.000	10.55	37.70	38.25	36.50	46.50	68.20	-21.70 peak
6 15780.000	14.07	40.87	40.57	34.77	49.14	74.00	-24.86 peak

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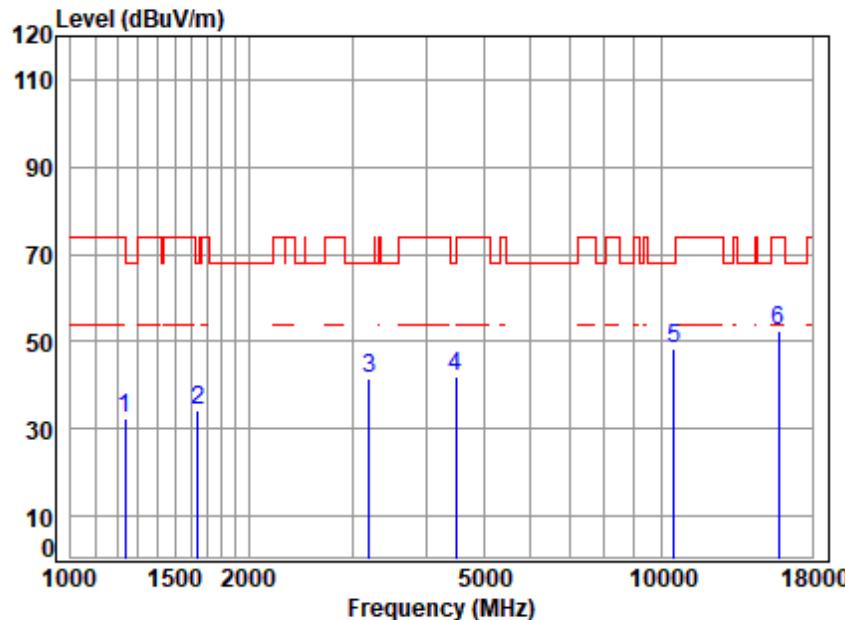
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



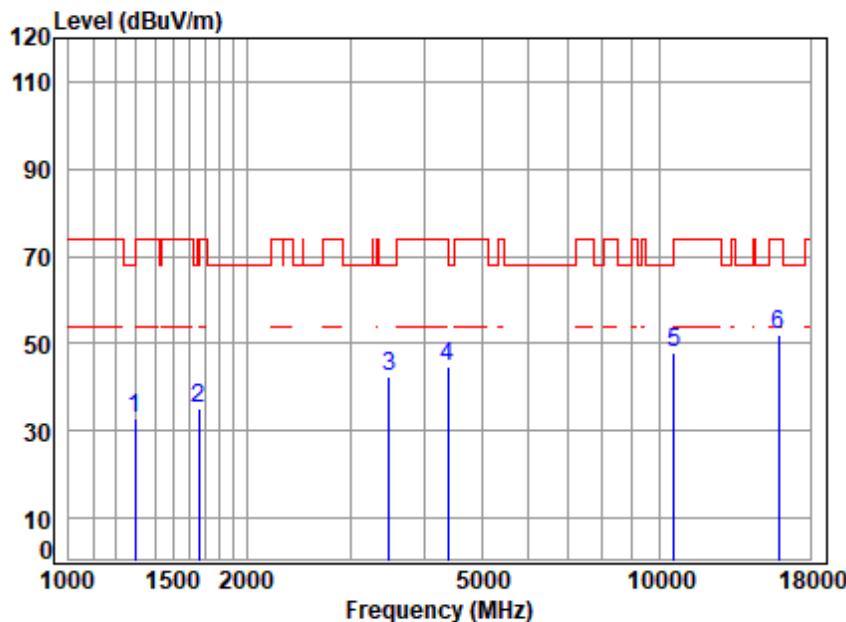
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5260 TX RSE
Note : 5G WIFI 11A
: 1TX

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	2.83	24.74	40.31	45.02	32.28	74.00	-41.72 peak
2 1644.019	3.38	26.44	40.60	45.10	34.32	68.20	-33.88 peak
3 3196.094	5.13	31.23	41.41	46.60	41.55	68.20	-26.65 peak
4 4482.150	6.74	33.57	42.54	44.01	41.78	68.20	-26.42 peak
5 10520.000	10.55	37.70	38.25	38.22	48.22	68.20	-19.98 peak
6 15780.000	14.07	40.87	40.57	37.96	52.33	74.00	-21.67 peak

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5300 TX RSE
Note : 5G WIFI 11A
: 1TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1297.103	2.94	25.01	40.36	45.20	32.79	68.20	-35.41 peak
2 1663.137	3.40	26.52	40.61	45.84	35.15	74.00	-38.85 peak
3 3485.601	5.50	31.68	41.70	46.85	42.33	68.20	-25.87 peak
4 4379.699	6.65	33.39	42.46	47.25	44.83	74.00	-29.17 peak
5 10600.000	10.62	37.72	38.29	37.91	47.96	68.20	-20.24 peak
6 15900.000	14.12	40.94	40.57	37.56	52.05	74.00	-21.95 peak

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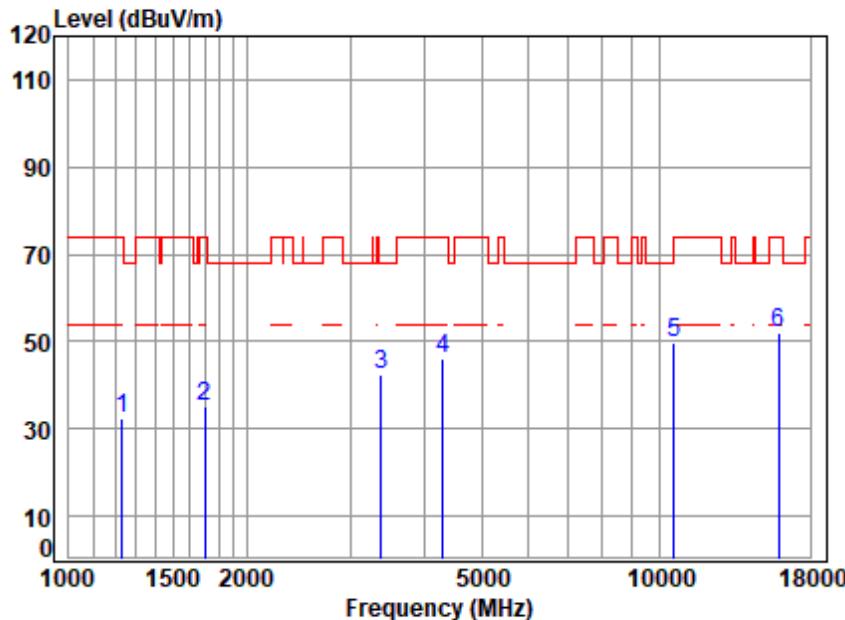
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



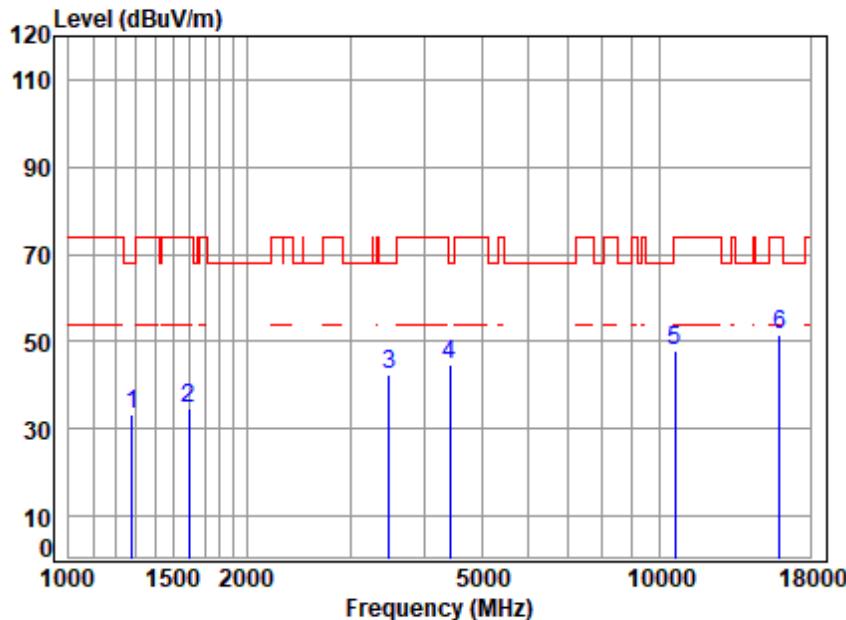
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5300 TX RSE
Note : 5G WIFI 11A
: 1TX

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	2.82	24.73	40.31	45.07	32.31	74.00	-41.69 peak
2	1697.129	3.43	26.66	40.63	45.53	34.99	74.00	-39.01 peak
3	3376.523	5.37	31.51	41.59	46.98	42.27	68.20	-25.93 peak
4	4304.400	6.58	33.26	42.40	48.74	46.18	74.00	-27.82 peak
5	10600.000	10.62	37.72	38.29	39.50	49.55	68.20	-18.65 peak
6	15900.000	14.12	40.94	40.57	37.53	52.02	74.00	-21.98 peak

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



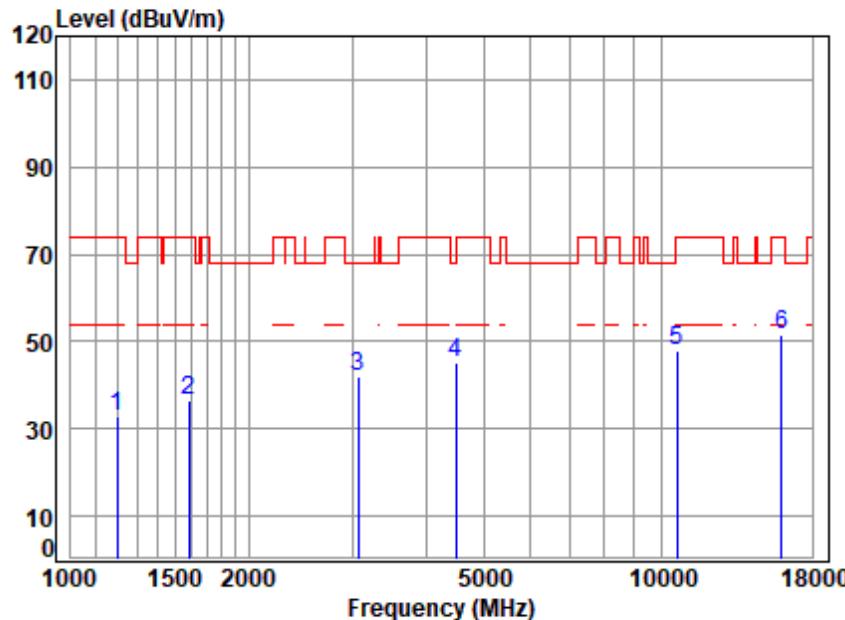
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5320 TX RSE
Note : 5G WIFI 11A
: 1TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1282.193	2.91	24.95	40.35	45.66	33.17	68.20	-35.03 peak
2 1597.181	3.35	26.24	40.57	45.54	34.56	74.00	-39.44 peak
3 3485.601	5.50	31.68	41.70	47.01	42.49	68.20	-25.71 peak
4 4417.841	6.68	33.46	42.49	46.94	44.59	68.20	-23.61 peak
5 10640.000	10.66	37.73	38.31	38.03	48.11	74.00	-25.89 peak
6 15960.000	14.14	40.98	40.57	37.07	51.62	74.00	-22.38 peak

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



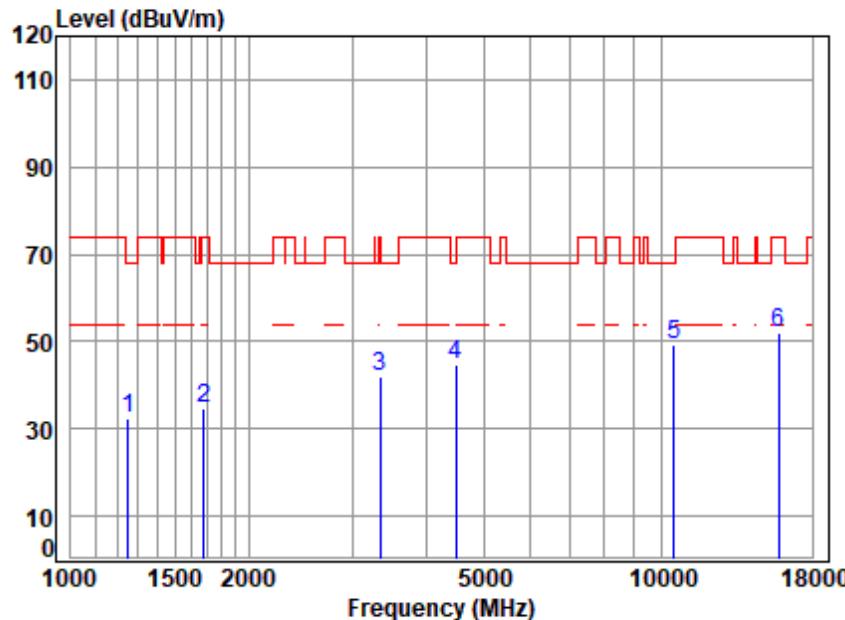
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5320 TX RSE
Note : 5G WIFI 11A
: 1TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1196.264	2.76	24.57	40.28	45.66	32.71	74.00	-41.29 peak
2 1587.975	3.34	26.20	40.56	47.44	36.42	74.00	-37.58 peak
3 3069.345	4.96	31.02	41.28	47.07	41.77	68.20	-26.43 peak
4 4482.150	6.74	33.57	42.54	47.35	45.12	68.20	-23.08 peak
5 10640.000	10.66	37.73	38.31	37.61	47.69	74.00	-26.31 peak
6 15960.000	14.14	40.98	40.57	36.90	51.45	74.00	-22.55 peak

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



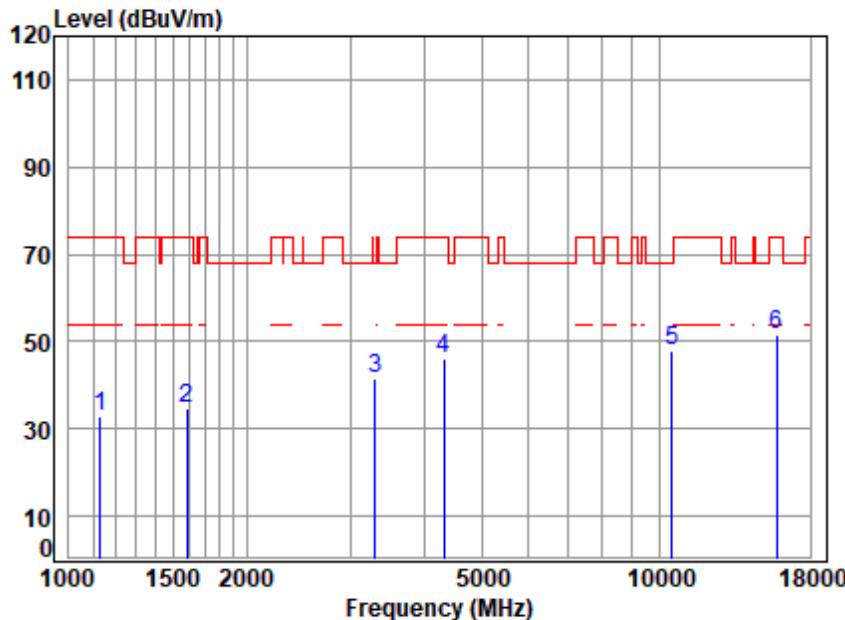
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5260 TX RSE
Note : 5G WIFI 11N20
: 4TX

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	2.86	24.82	40.33	45.16	32.51	68.20	-35.69 peak
2 1682.477	3.42	26.60	40.62	45.46	34.86	74.00	-39.14 peak
3 3347.371	5.33	31.47	41.56	46.78	42.02	74.00	-31.98 peak
4 4482.150	6.74	33.57	42.54	47.07	44.84	68.20	-23.36 peak
5 10520.000	10.55	37.70	38.25	39.25	49.25	68.20	-18.95 peak
6 15780.000	14.07	40.87	40.57	37.62	51.99	74.00	-22.01 peak

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



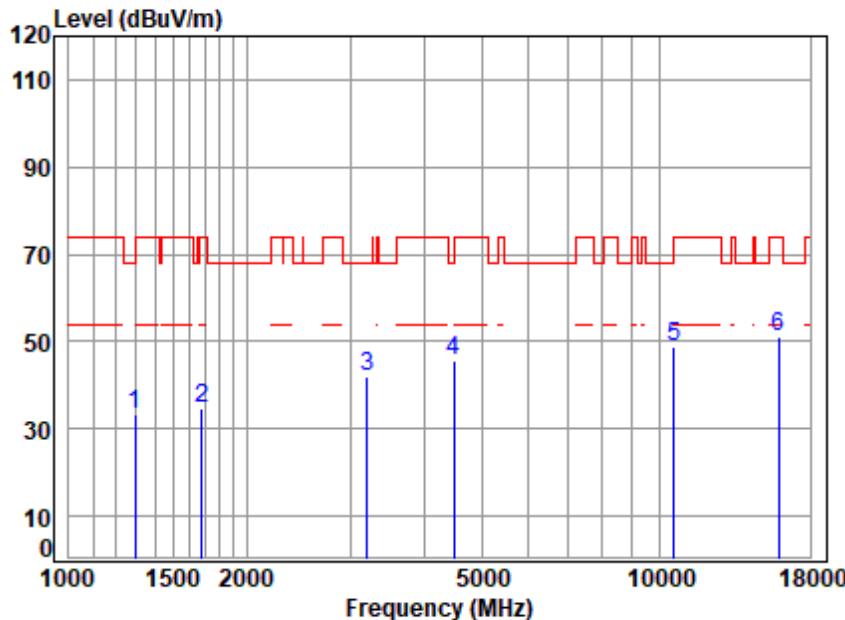
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5260 TX RSE
Note : 5G WIFI 11N20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1129.072	2.63	24.26	40.22	46.36	33.03	74.00	-40.97 peak
2 1583.392	3.33	26.18	40.56	45.62	34.57	74.00	-39.43 peak
3 3299.344	5.27	31.39	41.52	46.35	41.49	68.20	-26.71 peak
4 4316.859	6.59	33.28	42.41	48.49	45.95	74.00	-28.05 peak
5 10520.000	10.55	37.70	38.25	38.12	48.12	68.20	-20.08 peak
6 15780.000	14.07	40.87	40.57	37.03	51.40	74.00	-22.60 peak

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5300 TX RSE
Note : 5G WIFI 11N20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1297.103	2.94	25.01	40.36	45.92	33.51	68.20	-34.69 peak
2 1677.621	3.41	26.58	40.62	45.18	34.55	74.00	-39.45 peak
3 3205.345	5.14	31.24	41.42	47.16	42.12	68.20	-26.08 peak
4 4495.125	6.76	33.59	42.55	47.85	45.65	68.20	-22.55 peak
5 10600.000	10.62	37.72	38.29	38.85	48.90	68.20	-19.30 peak
6 15900.000	14.12	40.94	40.57	36.68	51.17	74.00	-22.83 peak

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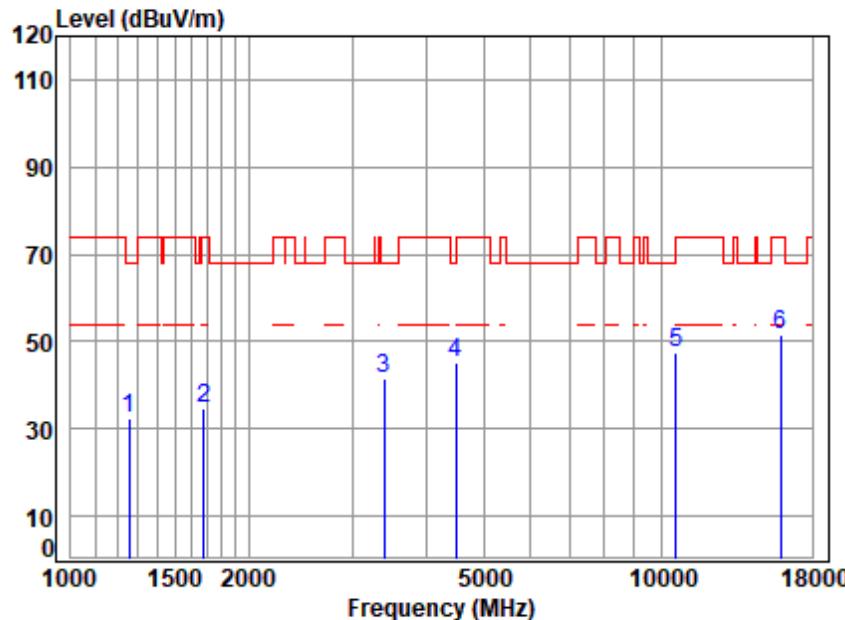
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Shenzhen Branch Inspection & Testing Services Laboratory

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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



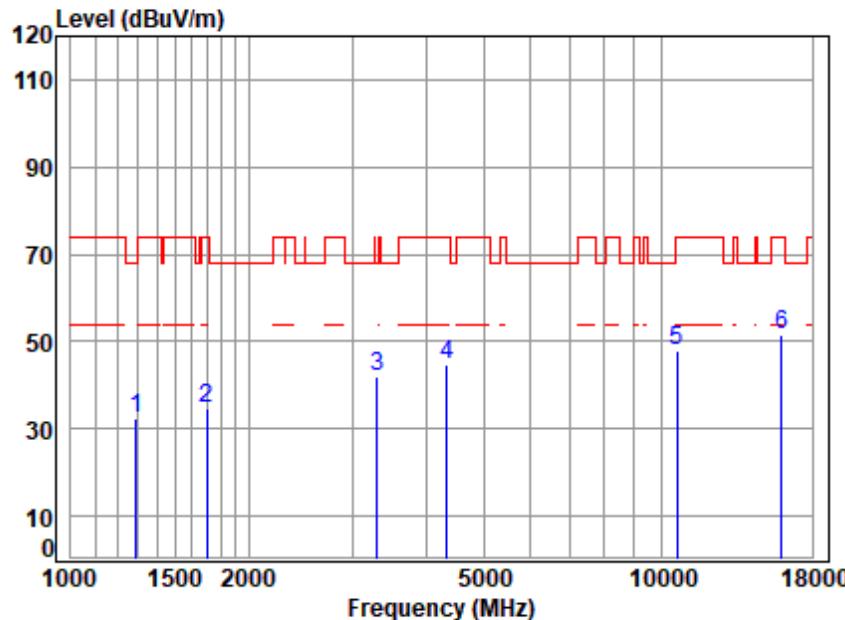
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5300 TX RSE
Note : 5G WIFI 11N20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1256.512	2.87	24.84	40.33	44.87	32.25	68.20	-35.95 peak
2 1677.621	3.41	26.58	40.62	45.47	34.84	74.00	-39.16 peak
3 3396.098	5.39	31.54	41.61	46.06	41.38	68.20	-26.82 peak
4 4482.150	6.74	33.57	42.54	47.39	45.16	68.20	-23.04 peak
5 10600.000	10.62	37.72	38.29	37.63	47.68	68.20	-20.52 peak
6 15900.000	14.12	40.94	40.57	37.25	51.74	74.00	-22.26 peak

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



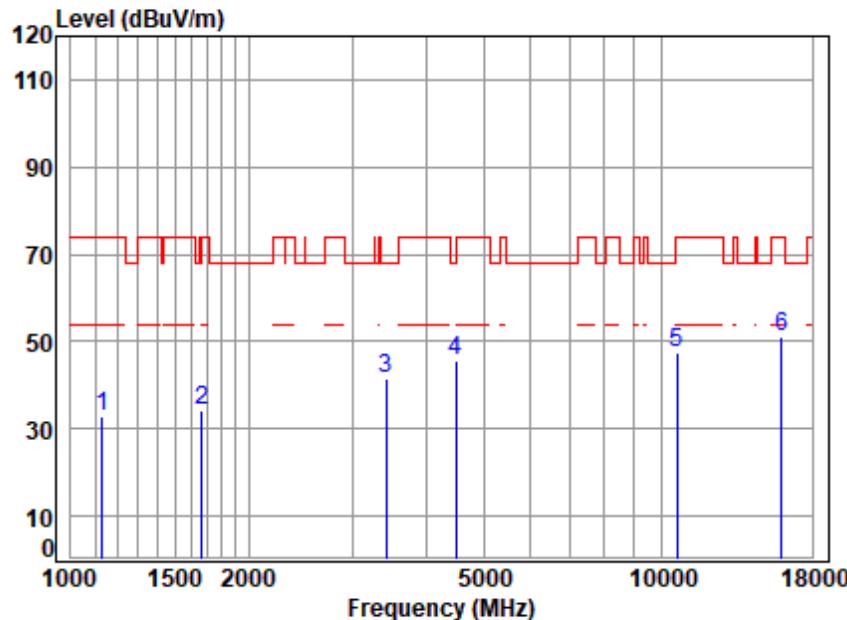
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5320 TX RSE
Note : 5G WIFI 11N20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1289.627	2.92	24.98	40.35	44.90	32.45	68.20	-35.75 peak
2 1697.129	3.43	26.66	40.63	45.32	34.78	74.00	-39.22 peak
3 3299.344	5.27	31.39	41.52	46.92	42.06	68.20	-26.14 peak
4 4329.354	6.60	33.30	42.42	47.05	44.53	74.00	-29.47 peak
5 10640.000	10.66	37.73	38.31	37.74	47.82	74.00	-26.18 peak
6 15960.000	14.14	40.98	40.57	36.96	51.51	74.00	-22.49 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5320 TX RSE
Note : 5G WIFI 11N20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1129.072	2.63	24.26	40.22	46.10	32.77	74.00	-41.23 peak
2 1667.951	3.40	26.54	40.61	44.98	34.31	74.00	-39.69 peak
3 3425.675	5.43	31.59	41.64	46.03	41.41	68.20	-26.79 peak
4 4482.150	6.74	33.57	42.54	47.67	45.44	68.20	-22.76 peak
5 10640.000	10.66	37.73	38.31	37.17	47.25	74.00	-26.75 peak
6 15960.000	14.14	40.98	40.57	36.77	51.32	74.00	-22.68 peak

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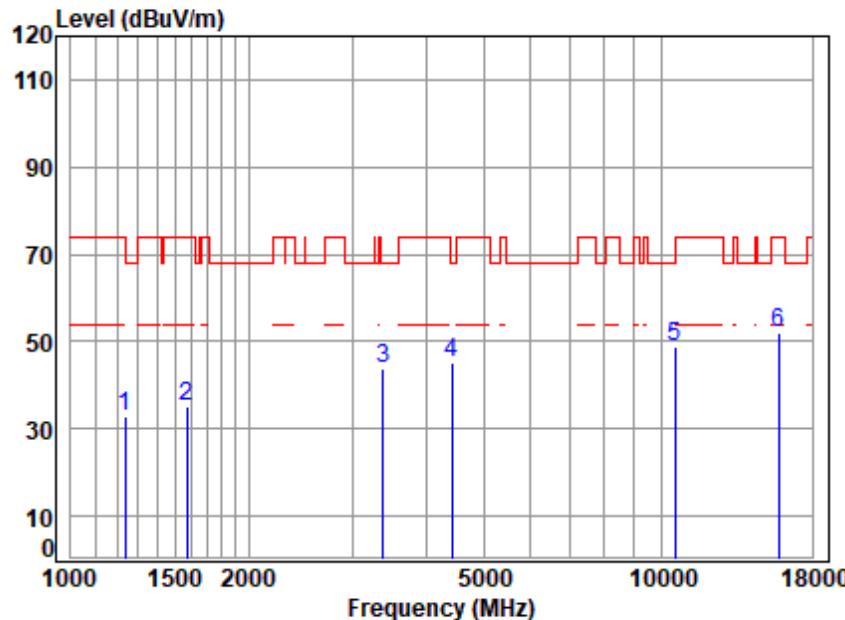
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Shenzhen Branch Inspection & Testing Services Laboratory

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



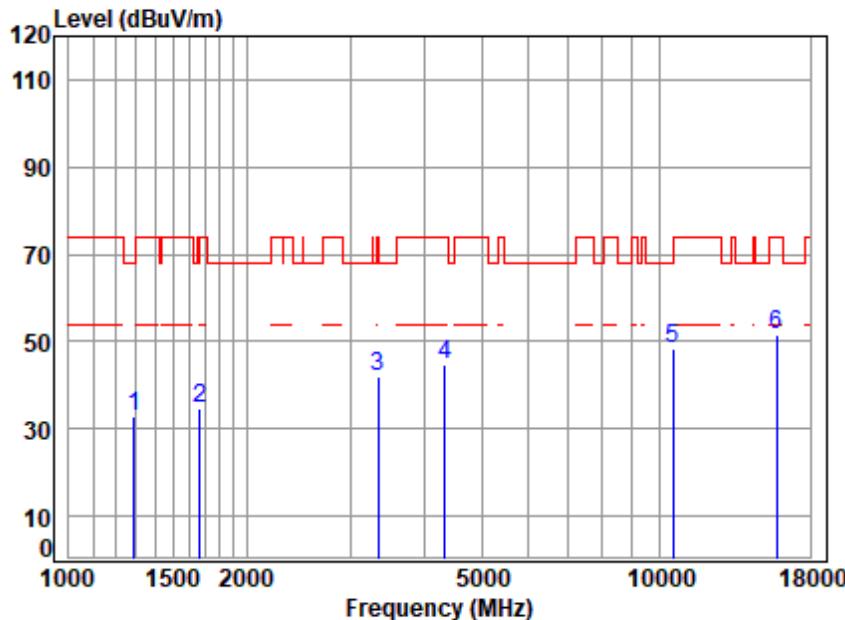
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5270 TX RSE
Note : 5G WIFI 11N40
: 4TX

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	2.83	24.74	40.31	45.44	32.70	74.00	-41.30 peak
2 1574.265	3.33	26.14	40.55	46.14	35.06	74.00	-38.94 peak
3 3386.297	5.38	31.53	41.60	48.33	43.64	68.20	-24.56 peak
4 4417.841	6.68	33.46	42.49	47.31	44.96	68.20	-23.24 peak
5 10540.000	10.57	37.71	38.26	38.65	48.67	68.20	-19.53 peak
6 15810.000	14.08	40.89	40.57	37.70	52.10	74.00	-21.90 peak

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



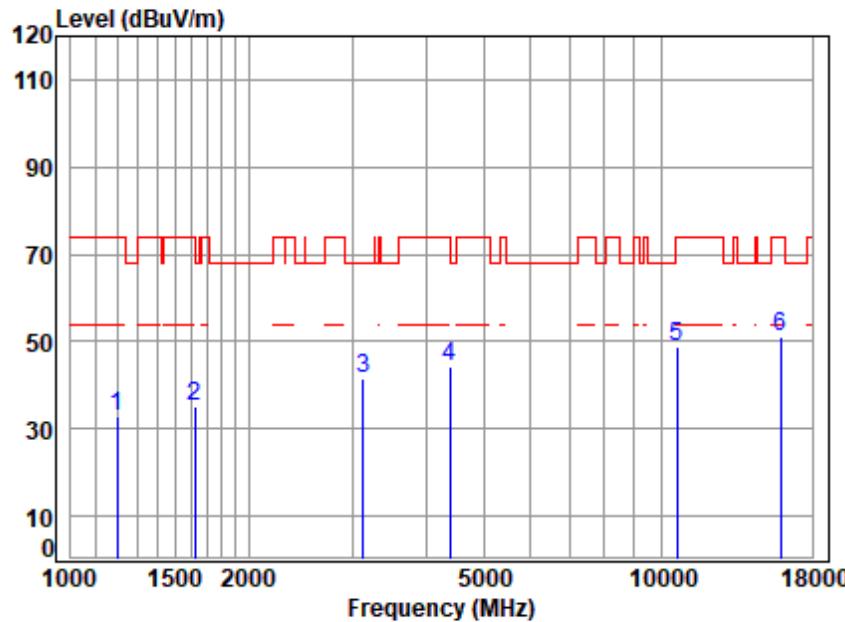
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5270 TX RSE
Note : 5G WIFI 11N40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1289.627	2.92	24.98	40.35	45.30	32.85	68.20	-35.35 peak
2 1667.951	3.40	26.54	40.61	45.45	34.78	74.00	-39.22 peak
3 3337.710	5.32	31.45	41.56	46.72	41.93	74.00	-32.07 peak
4 4329.354	6.60	33.30	42.42	47.07	44.55	74.00	-29.45 peak
5 10540.000	10.57	37.71	38.26	38.39	48.41	68.20	-19.79 peak
6 15810.000	14.08	40.89	40.57	37.26	51.66	74.00	-22.34 peak

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



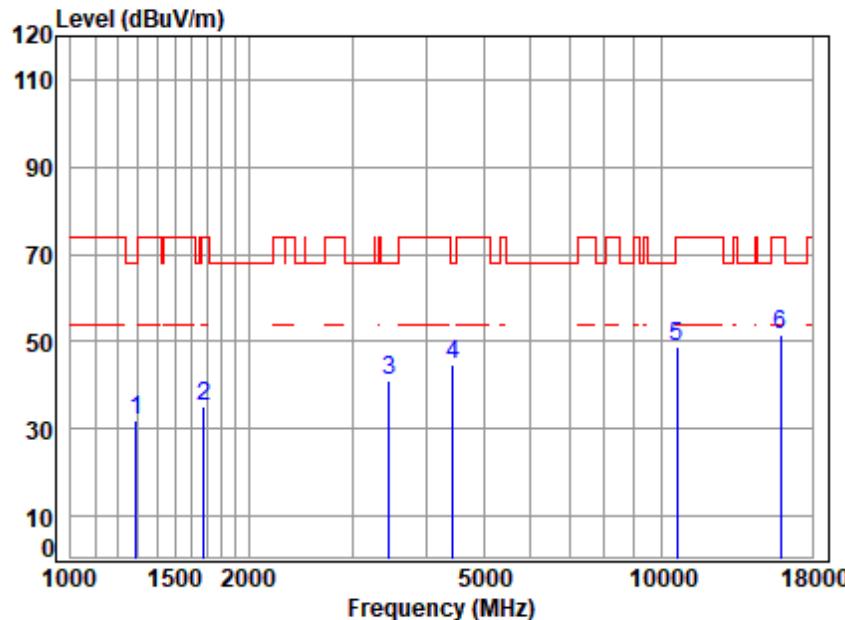
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5310 TX RSE
Note : 5G WIFI 11N40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1199.726	2.76	24.59	40.28	45.71	32.78	74.00	-41.22 peak
2	1625.121	3.37	26.36	40.59	46.08	35.22	74.00	-38.78 peak
3	3132.079	5.04	31.12	41.34	46.55	41.37	68.20	-26.83 peak
4	4392.376	6.66	33.42	42.47	46.77	44.38	74.00	-29.62 peak
5	10620.000	10.64	37.72	38.30	38.66	48.72	74.00	-25.28 peak
6	15930.000	14.13	40.96	40.57	36.79	51.31	74.00	-22.69 peak

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



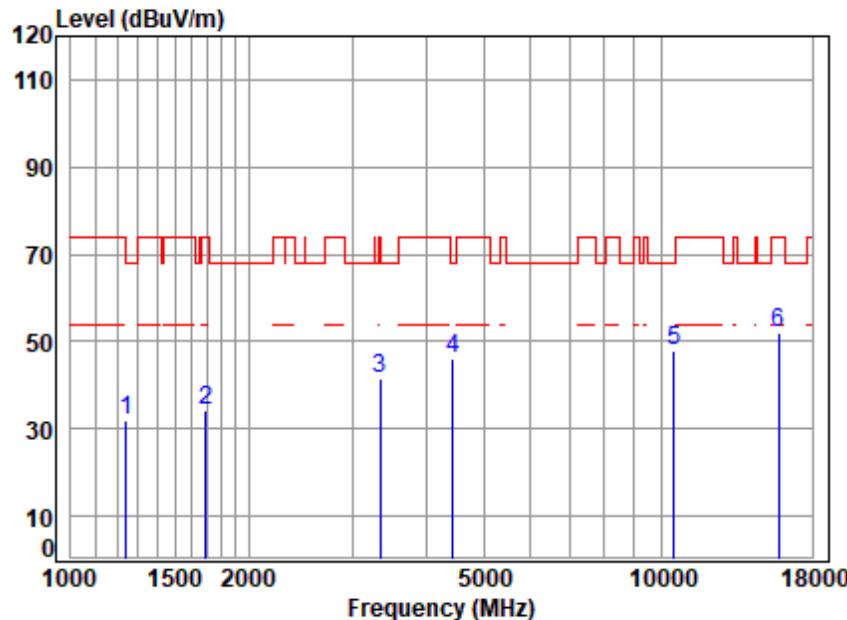
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5310 TX RSE
Note : 5G WIFI 11N40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1289.627	2.92	24.98	40.35	44.50	32.05	68.20	-36.15 peak
2 1682.477	3.42	26.60	40.62	45.76	35.16	74.00	-38.84 peak
3 3465.510	5.48	31.65	41.68	45.73	41.18	68.20	-27.02 peak
4 4430.628	6.70	33.48	42.50	47.18	44.86	68.20	-23.34 peak
5 10620.000	10.64	37.72	38.30	38.62	48.68	74.00	-25.32 peak
6 15930.000	14.13	40.96	40.57	37.04	51.56	74.00	-22.44 peak

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



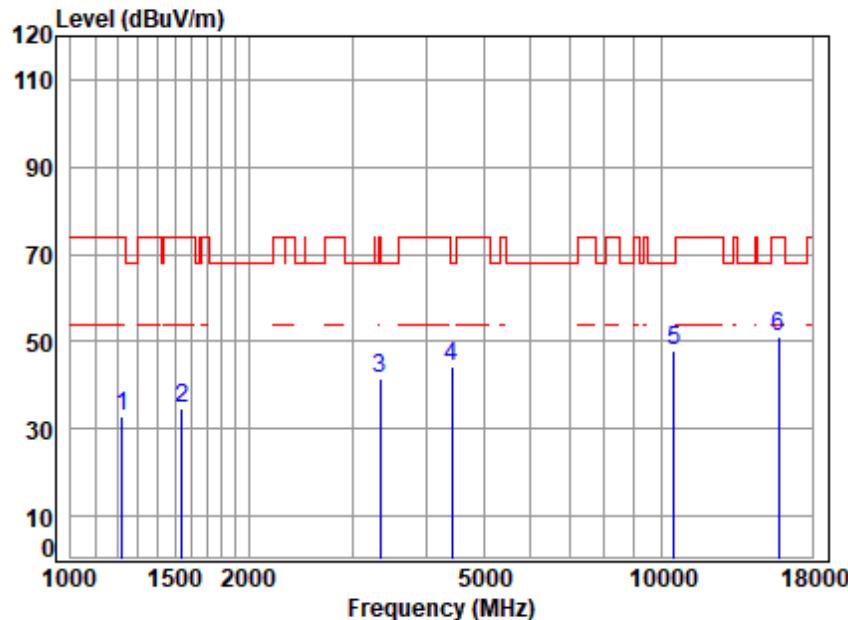
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5260 TX RSE
Note : 5G WIFI 11AC20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1242.068	2.84	24.78	40.32	44.45	31.75	68.20	-36.45 peak
2 1692.231	3.42	26.64	40.63	45.00	34.43	74.00	-39.57 peak
3 3337.710	5.32	31.45	41.56	46.41	41.62	74.00	-32.38 peak
4 4443.453	6.71	33.50	42.51	48.31	46.01	68.20	-22.19 peak
5 10520.000	10.55	37.70	38.25	37.81	47.81	68.20	-20.39 peak
6 15780.000	14.07	40.87	40.57	37.63	52.00	74.00	-22.00 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5260 TX RSE
Note : 5G WIFI 11AC20
: 4TX

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	2.80	24.68	40.30	45.45	32.63	74.00	-41.37 peak
2 1542.733	3.30	26.00	40.53	45.98	34.75	74.00	-39.25 peak
3 3337.710	5.32	31.45	41.56	46.36	41.57	74.00	-32.43 peak
4 4417.841	6.68	33.46	42.49	46.80	44.45	68.20	-23.75 peak
5 10520.000	10.55	37.70	38.25	37.93	47.93	68.20	-20.27 peak
6 15780.000	14.07	40.87	40.57	36.70	51.07	74.00	-22.93 peak

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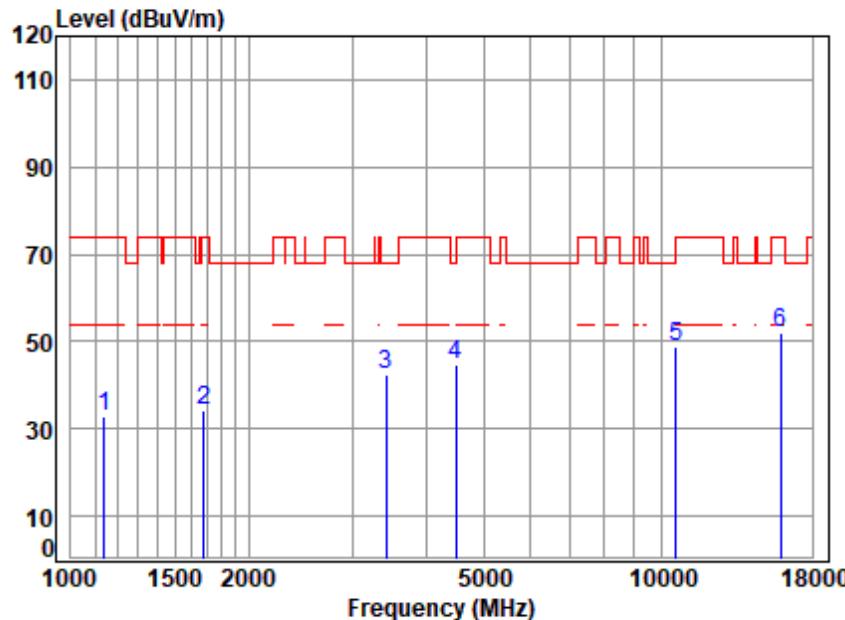
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



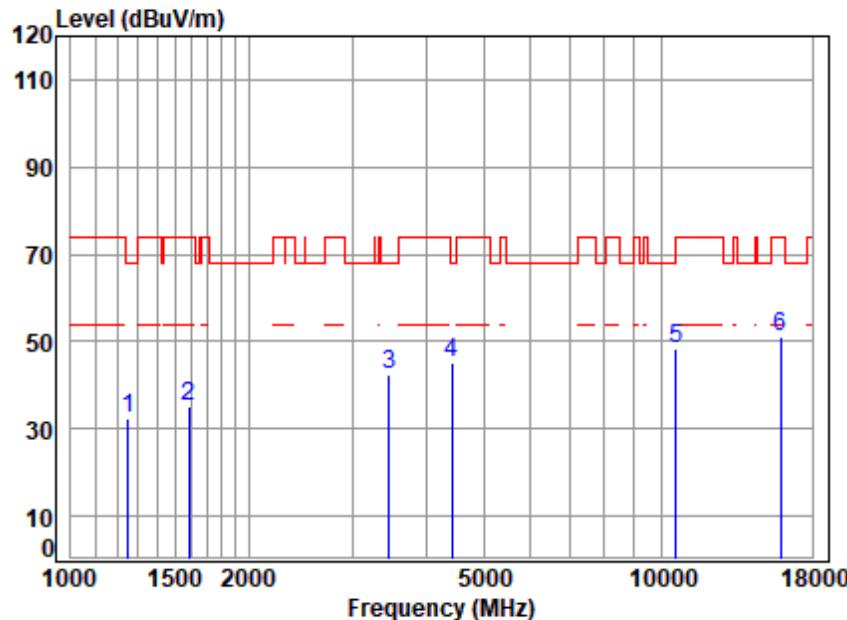
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5300 TX RSE
Note : 5G WIFI 11AC20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1138.904	2.65	24.31	40.23	46.15	32.88	74.00	-41.12 peak
2 1682.477	3.42	26.60	40.62	44.86	34.26	74.00	-39.74 peak
3 3425.675	5.43	31.59	41.64	47.15	42.53	68.20	-25.67 peak
4 4482.150	6.74	33.57	42.54	46.78	44.55	68.20	-23.65 peak
5 10600.000	10.62	37.72	38.29	38.92	48.97	68.20	-19.23 peak
6 15900.000	14.12	40.94	40.57	37.49	51.98	74.00	-22.02 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5300 TX RSE
Note : 5G WIFI 11AC20
: 4TX

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1	1252.885	2.86	24.82	40.33	44.98	32.33	68.20 -35.87 peak
2	1587.975	3.34	26.20	40.56	46.19	35.17	74.00 -38.83 peak
3	3455.508	5.47	31.63	41.67	47.04	42.47	68.20 -25.73 peak
4	4417.841	6.68	33.46	42.49	47.31	44.96	68.20 -23.24 peak
5	10600.000	10.62	37.72	38.29	38.13	48.18	68.20 -20.02 peak
6	15900.000	14.12	40.94	40.57	36.53	51.02	74.00 -22.98 peak

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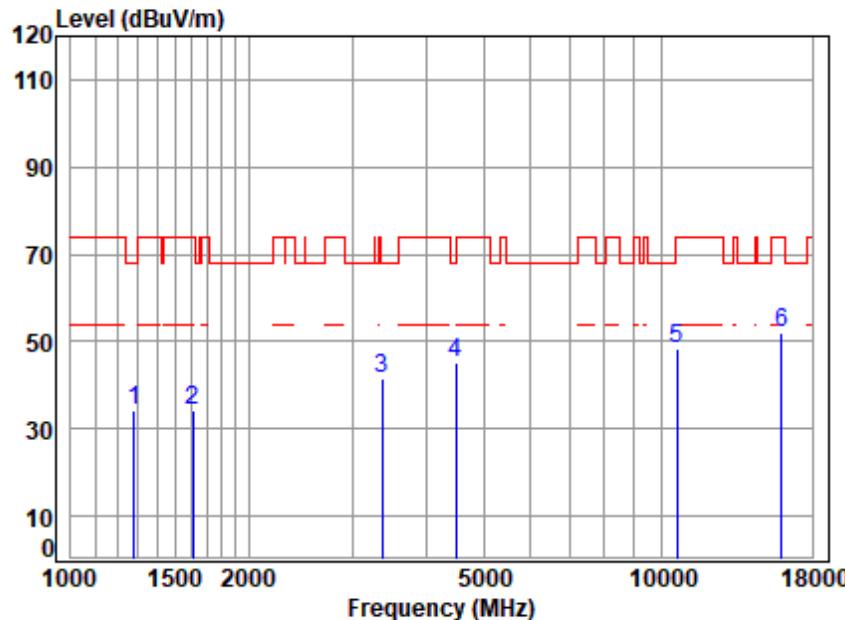
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



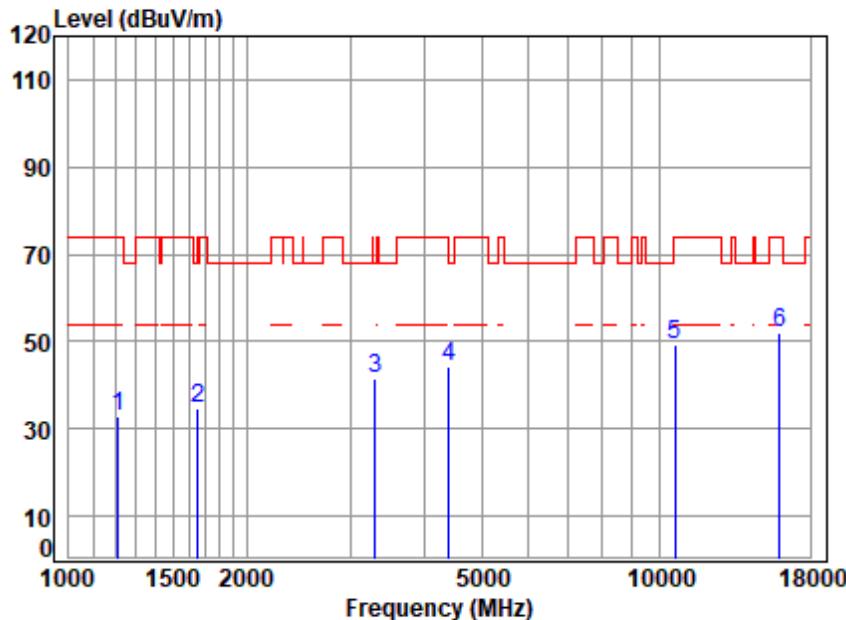
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5320 TX RSE
Note : 5G WIFI 11AC20
: 4TX

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
MHz								
1	1278.492	2.91	24.93	40.35	46.60	34.09	68.20	-34.11 peak
2	1611.091	3.36	26.30	40.58	45.31	34.39	74.00	-39.61 peak
3	3366.778	5.35	31.50	41.58	46.12	41.39	68.20	-26.81 peak
4	4482.150	6.74	33.57	42.54	47.41	45.18	68.20	-23.02 peak
5	10640.000	10.66	37.73	38.31	38.07	48.15	74.00	-25.85 peak
6	15960.000	14.14	40.98	40.57	37.58	52.13	74.00	-21.87 peak

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



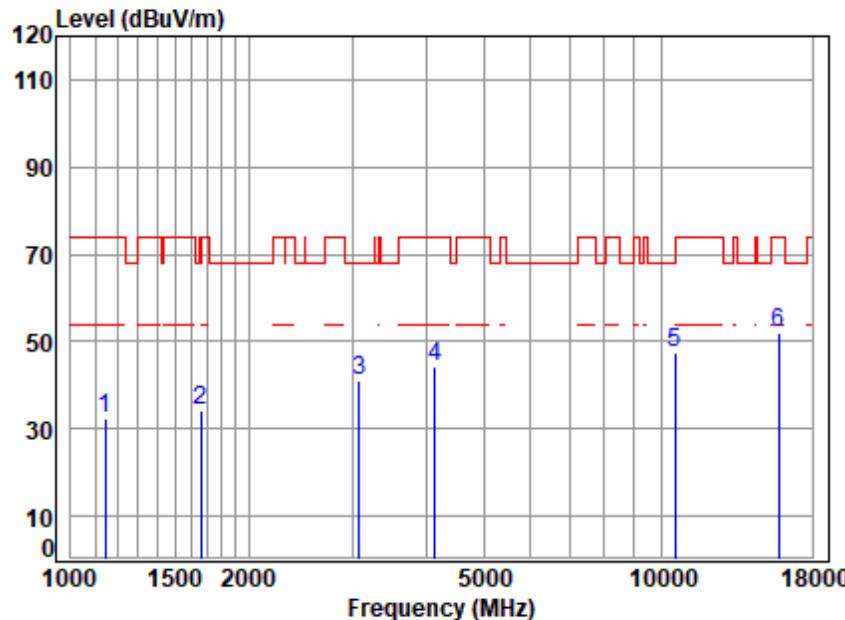
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5320 TX RSE
Note : 5G WIFI 11AC20
: 4TX

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 1210.174	2.78	24.64	40.29	45.67	32.80	74.00	-41.20	peak
2 1653.550	3.39	26.48	40.60	45.59	34.86	68.20	-33.34	peak
3 3299.344	5.27	31.39	41.52	46.46	41.60	68.20	-26.60	peak
4 4405.090	6.67	33.44	42.48	46.82	44.45	68.20	-23.75	peak
5 10640.000	10.66	37.73	38.31	39.36	49.44	74.00	-24.56	peak
6 15960.000	14.14	40.98	40.57	37.48	52.03	74.00	-21.97	peak

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



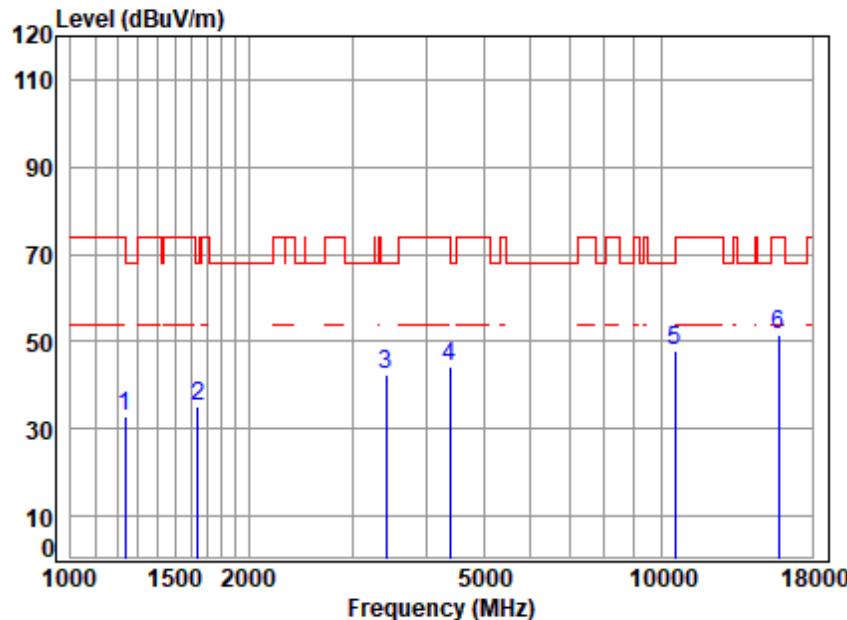
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5270 TX RSE
Note : 5G WIFI 11AC40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1145.507	2.66	24.34	40.24	45.52	32.28	74.00	-41.72 peak
2 1663.137	3.40	26.52	40.61	44.98	34.29	74.00	-39.71 peak
3 3078.229	4.97	31.03	41.29	46.56	41.27	68.20	-26.93 peak
4 4133.699	6.41	32.95	42.27	47.39	44.48	74.00	-29.52 peak
5 10540.000	10.57	37.71	38.26	37.30	47.32	68.20	-20.88 peak
6 15810.000	14.08	40.89	40.57	37.53	51.93	74.00	-22.07 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5270 TX RSE
Note : 5G WIFI 11AC40
: 4TX

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	2.83	24.74	40.31	45.62	32.88	74.00	-41.12 peak
2 1644.019	3.38	26.44	40.60	45.75	34.97	68.20	-33.23 peak
3 3425.675	5.43	31.59	41.64	47.09	42.47	68.20	-25.73 peak
4 4392.376	6.66	33.42	42.47	46.81	44.42	74.00	-29.58 peak
5 10540.000	10.57	37.71	38.26	38.08	48.10	68.20	-20.10 peak
6 15810.000	14.08	40.89	40.57	37.16	51.56	74.00	-22.44 peak

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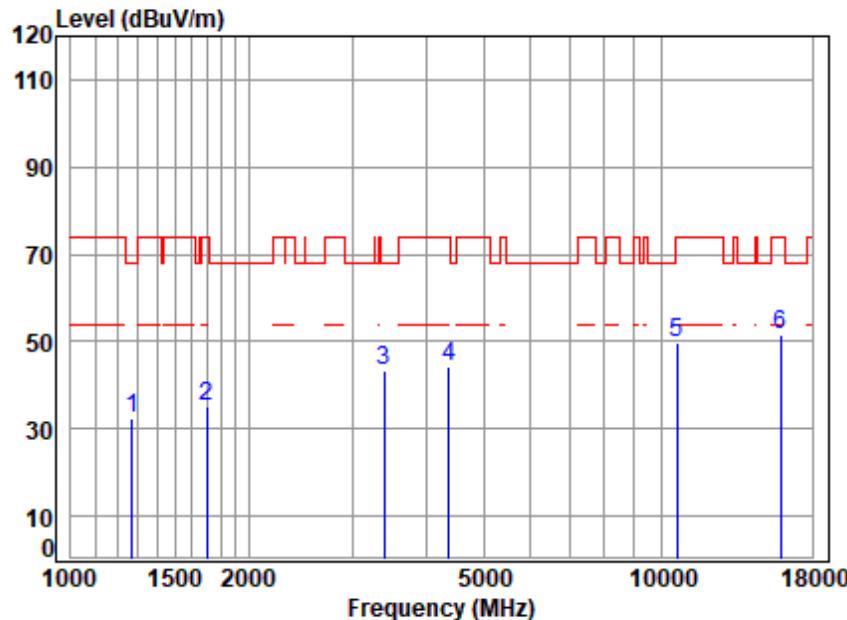
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



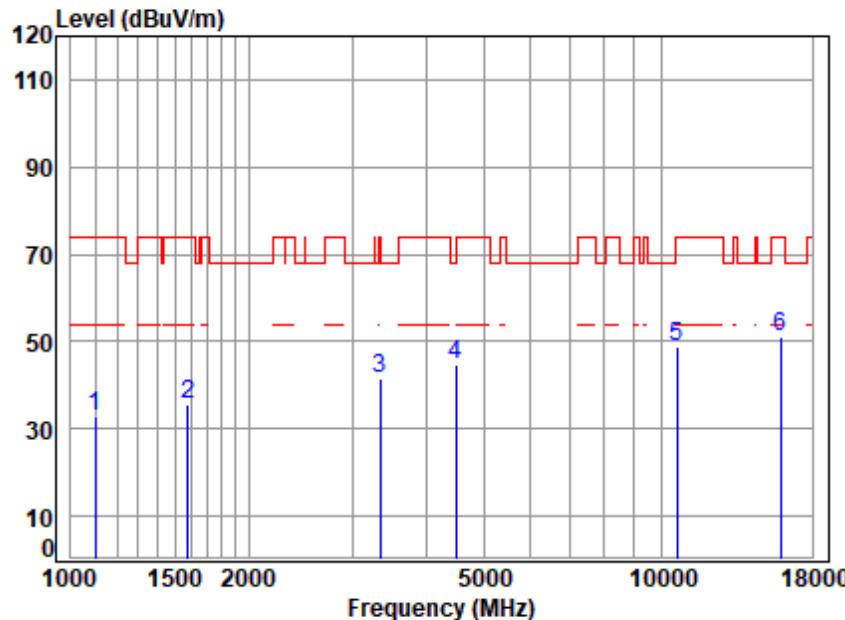
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5310 TX RSE
Note : 5G WIFI 11AC40
: 4TX

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	2.89	24.90	40.34	44.79	32.24	68.20	-35.96 peak
2 1697.129	3.43	26.66	40.63	45.66	35.12	74.00	-38.88 peak
3 3396.098	5.39	31.54	41.61	48.01	43.33	68.20	-24.87 peak
4 4367.058	6.64	33.37	42.45	46.70	44.26	74.00	-29.74 peak
5 10620.000	10.64	37.72	38.30	39.77	49.83	74.00	-24.17 peak
6 15930.000	14.13	40.96	40.57	37.04	51.56	74.00	-22.44 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5310 TX RSE
Note : 5G WIFI 11AC40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1100.079	2.57	24.12	40.20	46.44	32.93	74.00	-41.07 peak
2 1578.822	3.33	26.16	40.56	46.57	35.50	74.00	-38.50 peak
3 3347.371	5.33	31.47	41.56	46.18	41.42	74.00	-32.58 peak
4 4495.125	6.76	33.59	42.55	46.96	44.76	68.20	-23.44 peak
5 10620.000	10.64	37.72	38.30	38.71	48.77	74.00	-25.23 peak
6 15930.000	14.13	40.96	40.57	36.68	51.20	74.00	-22.80 peak

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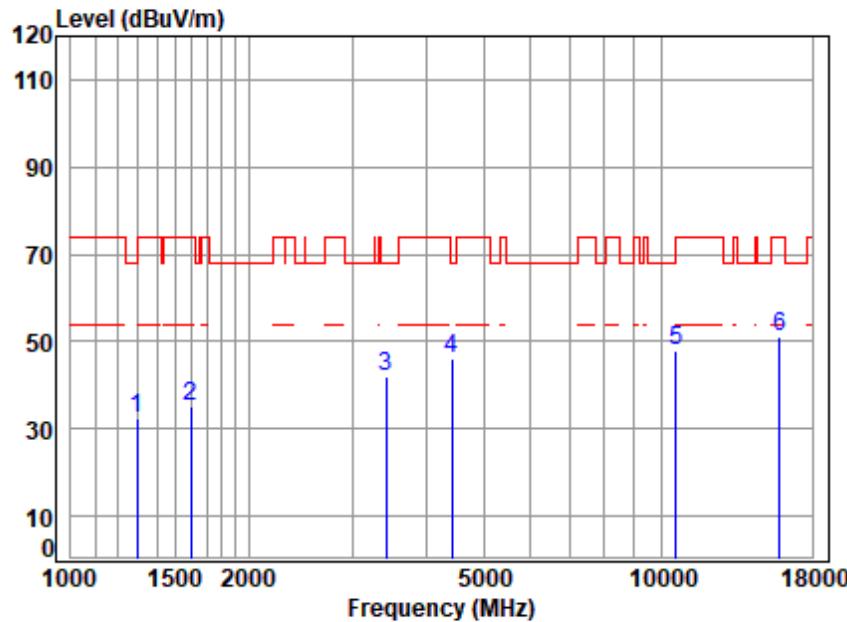
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5290 TX RSE
Note : 5G WIFI 11AC80
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1297.103	2.94	25.01	40.36	44.76	32.35	68.20	-35.85 peak
2 1597.181	3.35	26.24	40.57	46.04	35.06	74.00	-38.94 peak
3 3425.675	5.43	31.59	41.64	46.59	41.97	68.20	-26.23 peak
4 4417.841	6.68	33.46	42.49	48.28	45.93	68.20	-22.27 peak
5 10580.000	10.60	37.72	38.28	37.93	47.97	68.20	-20.23 peak
6 15870.000	14.11	40.92	40.57	36.81	51.27	74.00	-22.73 peak

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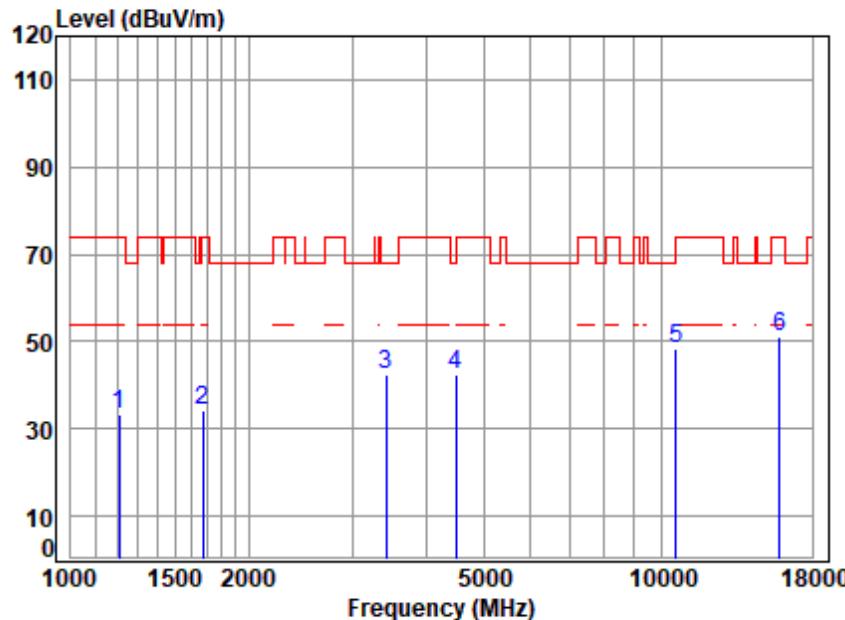
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5290 TX RSE
Note : 5G WIFI 11AC80
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1206.682	2.78	24.62	40.29	45.98	33.09	74.00	-40.91 peak
2 1672.779	3.41	26.56	40.62	44.87	34.22	74.00	-39.78 peak
3 3415.787	5.42	31.57	41.63	47.06	42.42	68.20	-25.78 peak
4 4495.125	6.76	33.59	42.55	44.84	42.64	68.20	-25.56 peak
5 10580.000	10.60	37.72	38.28	38.16	48.20	68.20	-20.00 peak
6 15870.000	14.11	40.92	40.57	36.84	51.30	74.00	-22.70 peak

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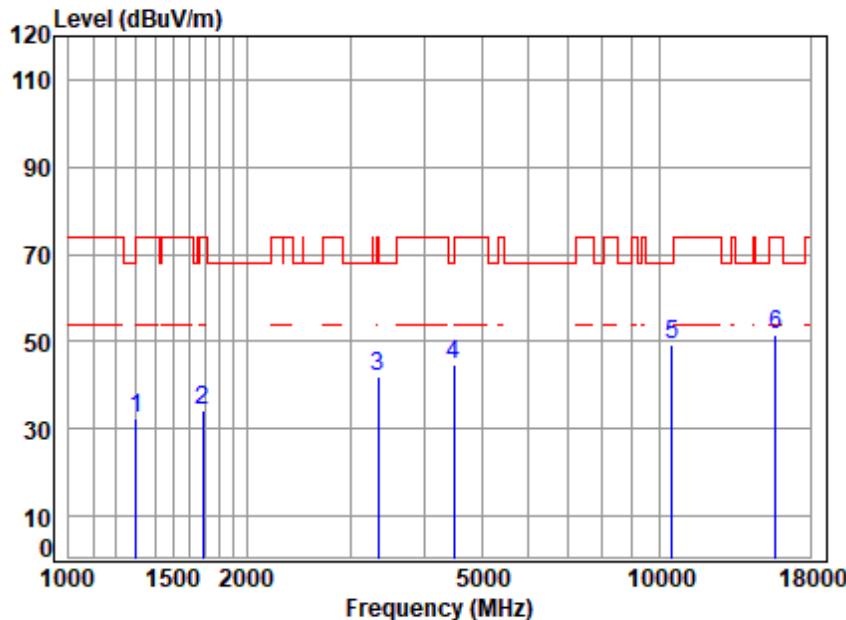
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz



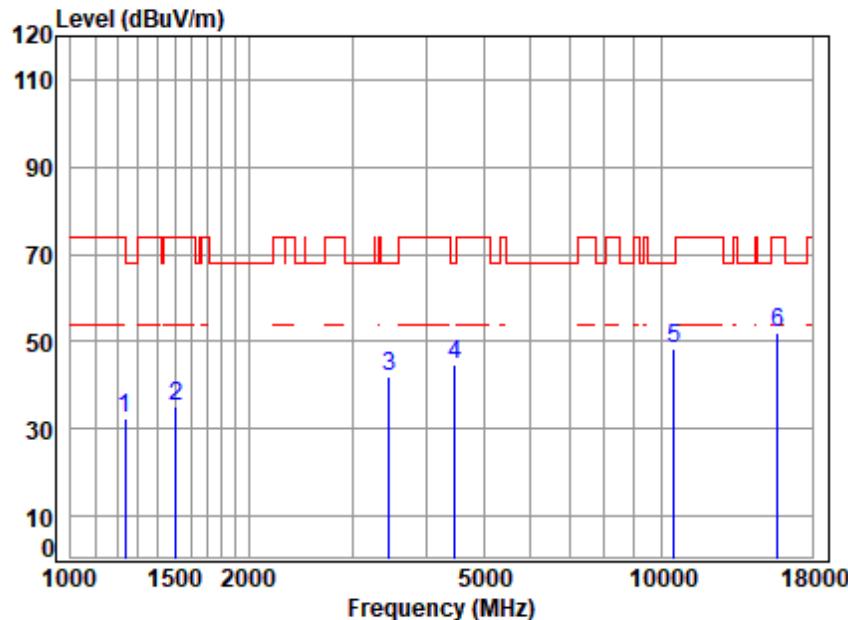
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5250 TX RSE
Note : 5G WIFI 11AC160
: 4TX

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	2.94	25.03	40.36	44.78	32.39	74.00	-41.61 peak
2	1687.347	3.42	26.62	40.62	44.77	34.19	74.00	-39.81 peak
3	3347.371	5.33	31.47	41.56	46.54	41.78	74.00	-32.22 peak
4	4495.125	6.76	33.59	42.55	47.00	44.80	68.20	-23.40 peak
5	10500.000	10.55	37.70	38.25	39.33	49.33	68.20	-18.87 peak
6	15750.000	14.07	40.87	40.57	37.04	51.41	74.00	-22.59 peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz



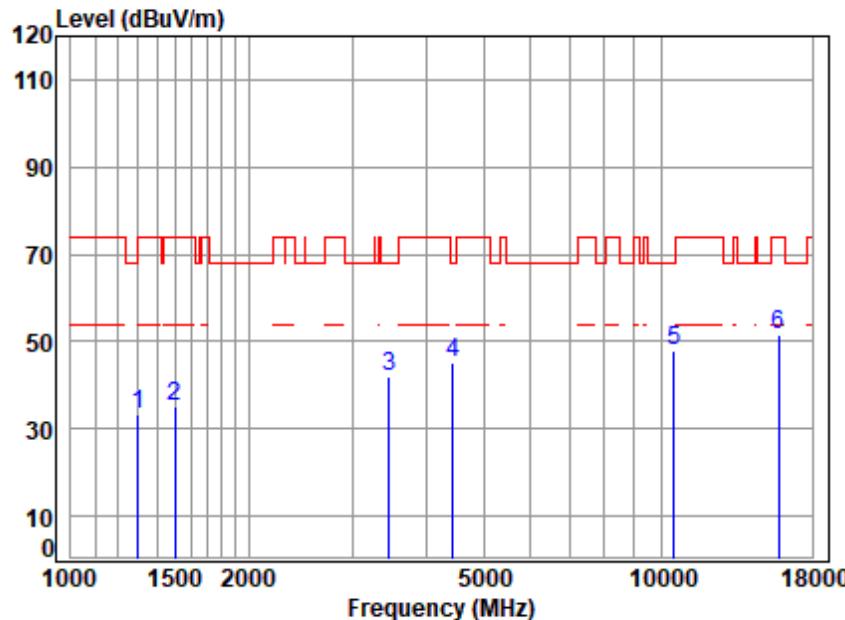
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5250 TX RSE
Note : 5G WIFI 11AC160
: 4TX

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	2.83	24.74	40.31	45.28	32.54	74.00	-41.46 peak
2 1507.470	3.27	25.83	40.51	46.58	35.17	74.00	-38.83 peak
3 3455.508	5.47	31.63	41.67	46.43	41.86	68.20	-26.34 peak
4 4469.214	6.73	33.55	42.53	47.06	44.81	68.20	-23.39 peak
5 10500.000	10.55	37.70	38.25	38.20	48.20	68.20	-20.00 peak
6 15750.000	14.07	40.87	40.57	37.49	51.86	74.00	-22.14 peak

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5260 TX RSE
Note : 5G WIFI 11AX20
: 4TX

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	2.94	25.03	40.36	45.60	33.21	74.00	-40.79 peak
2 1498.781	3.26	25.80	40.51	46.40	34.95	74.00	-39.05 peak
3 3455.508	5.47	31.63	41.67	46.44	41.87	68.20	-26.33 peak
4 4443.453	6.71	33.50	42.51	47.44	45.14	68.20	-23.06 peak
5 10520.000	10.55	37.70	38.25	38.06	48.06	68.20	-20.14 peak
6 15780.000	14.07	40.87	40.57	36.99	51.36	74.00	-22.64 peak

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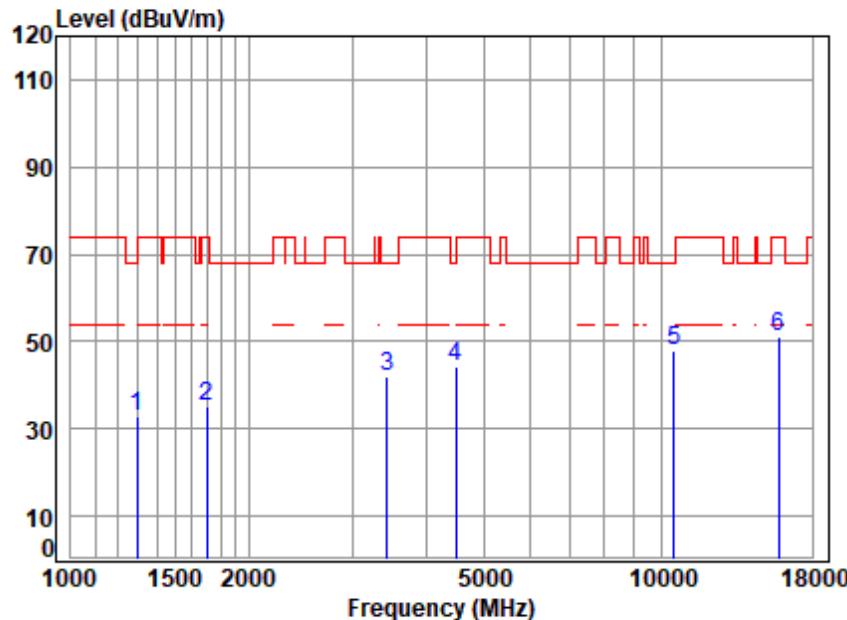
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5260 TX RSE
Note : 5G WIFI 11AX20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1297.103	2.94	25.01	40.36	45.36	32.95	68.20	-35.25 peak
2	1697.129	3.43	26.66	40.63	45.59	35.05	74.00	-38.95 peak
3	3435.590	5.44	31.60	41.65	46.55	41.94	68.20	-26.26 peak
4	4495.125	6.76	33.59	42.55	46.56	44.36	68.20	-23.84 peak
5	10520.000	10.55	37.70	38.25	38.06	48.06	68.20	-20.14 peak
6	15780.000	14.07	40.87	40.57	36.89	51.26	74.00	-22.74 peak

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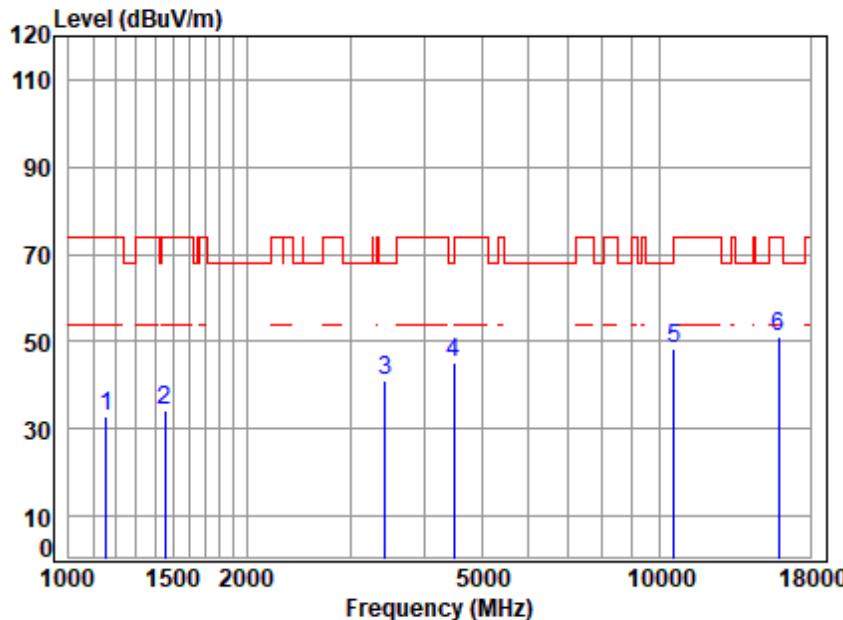
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5300 TX RSE
Note : 5G WIFI 11AX20
: 4TX

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	2.68	24.38	40.24	45.95	32.77	74.00	-41.23 peak
2 1456.081	3.19	25.64	40.48	45.70	34.05	74.00	-39.95 peak
3 3435.590	5.44	31.60	41.65	45.72	41.11	68.20	-27.09 peak
4 4495.125	6.76	33.59	42.55	47.58	45.38	68.20	-22.82 peak
5 10600.000	10.62	37.72	38.29	38.33	48.38	68.20	-19.82 peak
6 15900.000	14.12	40.94	40.57	36.61	51.10	74.00	-22.90 peak

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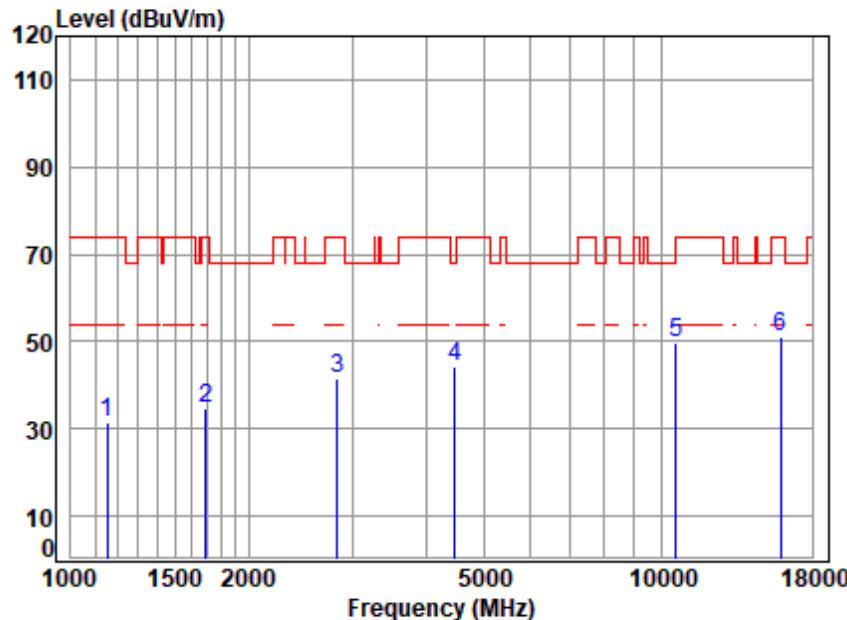
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5300 TX RSE
Note : 5G WIFI 11AX20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1152.148	2.67	24.37	40.24	44.66	31.46	74.00	-42.54 peak
2 1692.231	3.42	26.64	40.63	45.47	34.90	74.00	-39.10 peak
3 2830.728	4.75	30.20	41.14	47.92	41.73	74.00	-32.27 peak
4 4469.214	6.73	33.55	42.53	46.70	44.45	68.20	-23.75 peak
5 10600.000	10.62	37.72	38.29	39.74	49.79	68.20	-18.41 peak
6 15900.000	14.12	40.94	40.57	36.63	51.12	74.00	-22.88 peak

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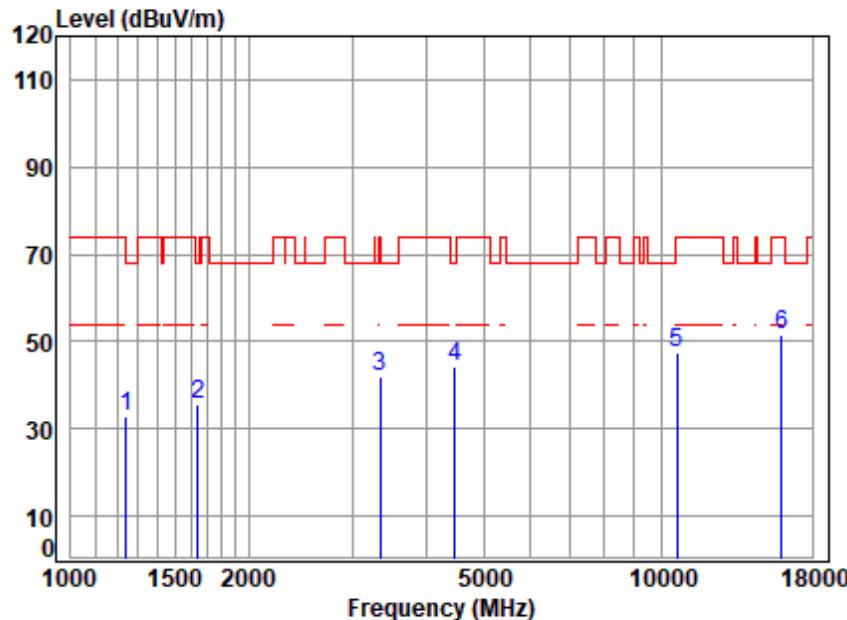
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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



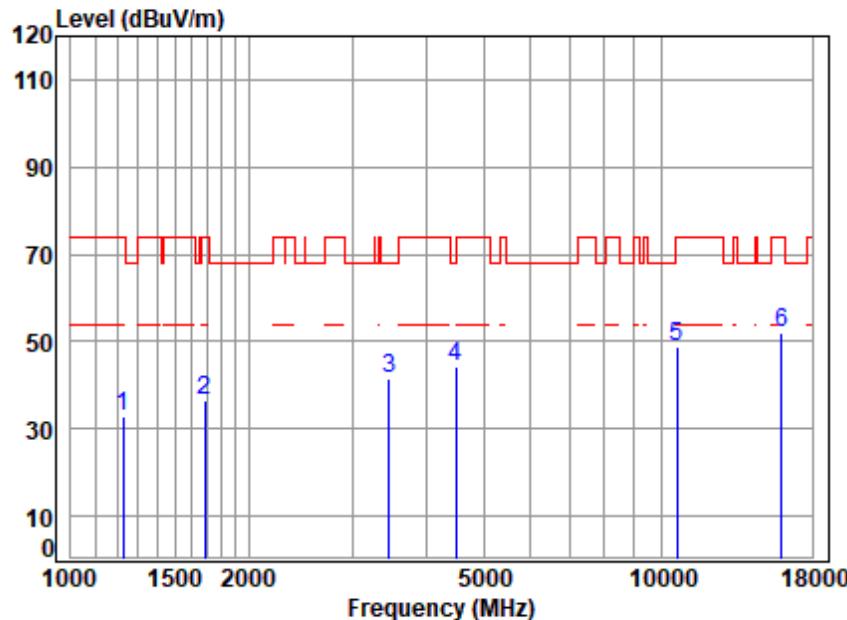
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5320 TX RSE
Note : 5G WIFI 11AX20
: 4TX

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 1242.068	2.84	24.78	40.32	45.47	32.77	68.20	-35.43 peak
2 1644.019	3.38	26.44	40.60	46.26	35.48	68.20	-32.72 peak
3 3347.371	5.33	31.47	41.56	46.53	41.77	74.00	-32.23 peak
4 4469.214	6.73	33.55	42.53	46.61	44.36	68.20	-23.84 peak
5 10640.000	10.66	37.73	38.31	37.32	47.40	74.00	-26.60 peak
6 15960.000	14.14	40.98	40.57	36.86	51.41	74.00	-22.59 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5320 TX RSE
Note : 5G WIFI 11AX20
: 4TX

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1227.791	2.82	24.71	40.31	45.50	32.72	74.00	-41.28	peak
2 1687.347	3.42	26.62	40.62	47.13	36.55	74.00	-37.45	peak
3 3455.508	5.47	31.63	41.67	46.02	41.45	68.20	-26.75	peak
4 4482.150	6.74	33.57	42.54	46.32	44.09	68.20	-24.11	peak
5 10640.000	10.66	37.73	38.31	38.71	48.79	74.00	-25.21	peak
6 15960.000	14.14	40.98	40.57	37.39	51.94	74.00	-22.06	peak

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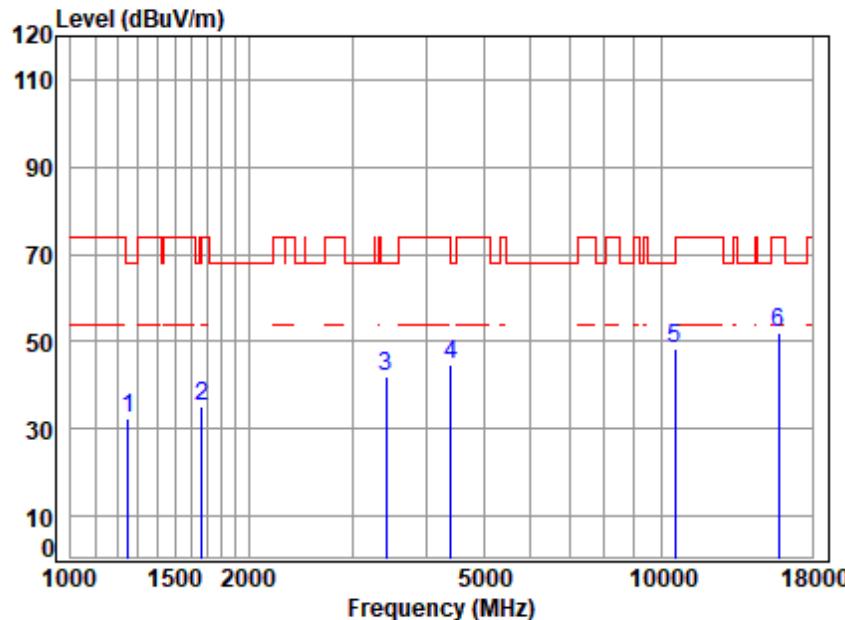
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5270 TX RSE
Note : 5G WIFI 11AX40
: 4TX

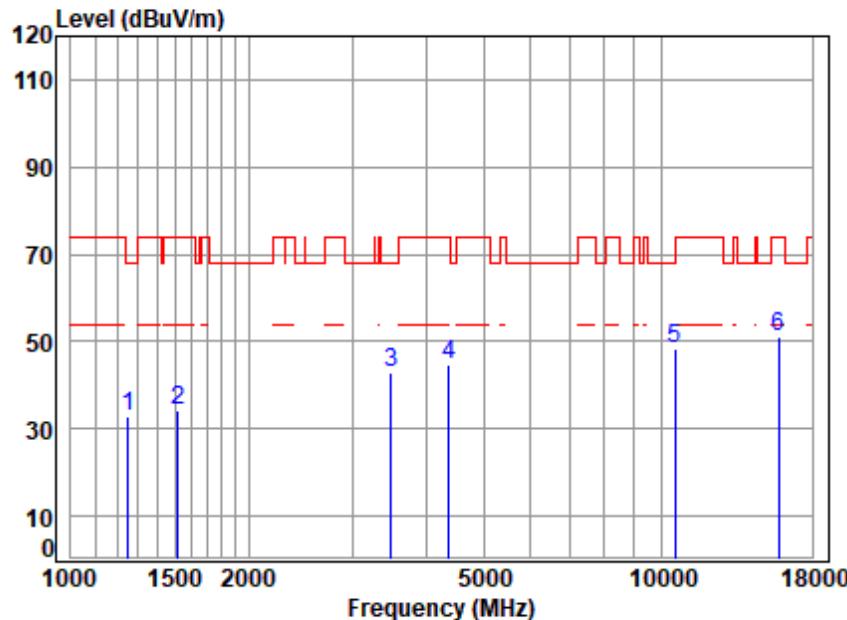
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1249.269	2.85	24.81	40.32	44.98	32.32	68.20	-35.88 peak
2 1667.951	3.40	26.54	40.61	45.82	35.15	74.00	-38.85 peak
3 3415.787	5.42	31.57	41.63	46.67	42.03	68.20	-26.17 peak
4 4405.090	6.67	33.44	42.48	47.14	44.77	68.20	-23.43 peak
5 10540.000	10.55	37.70	38.25	38.52	48.52	68.20	-19.68 peak
6 15810.000	14.07	40.87	40.57	37.63	52.00	74.00	-22.00 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5270 TX RSE
Note : 5G WIFI 11AX40
: 4TX

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	2.85	24.81	40.32	45.49	32.83	68.20	-35.37 peak
2	1520.598	3.28	25.89	40.52	45.72	34.37	74.00	-39.63 peak
3	3485.601	5.50	31.68	41.70	47.24	42.72	68.20	-25.48 peak
4	4367.058	6.64	33.37	42.45	47.27	44.83	74.00	-29.17 peak
5	10540.000	10.55	37.70	38.25	38.46	48.46	68.20	-19.74 peak
6	15810.000	14.07	40.87	40.57	36.52	50.89	74.00	-23.11 peak

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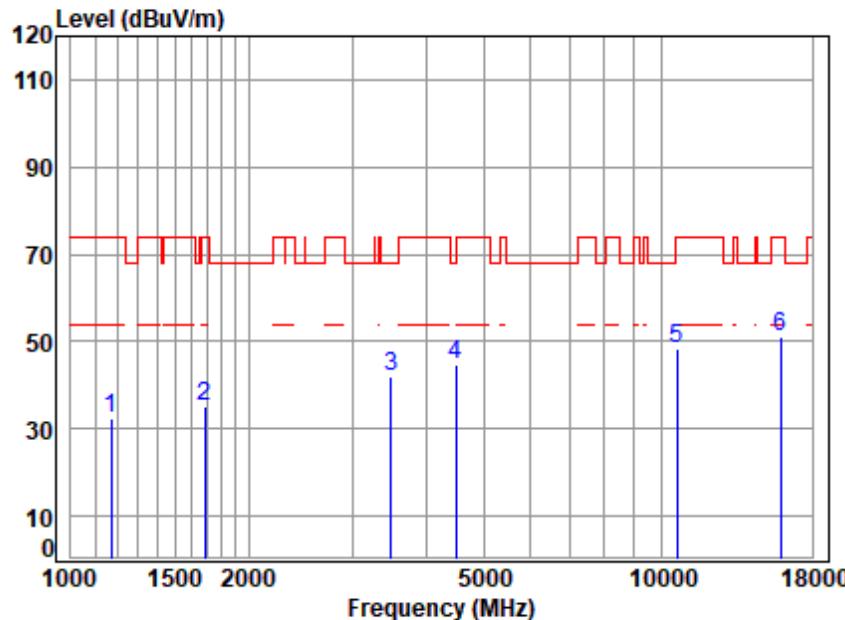
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5310 TX RSE
Note : 5G WIFI 11AX40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1168.920	2.71	24.45	40.26	45.58	32.48	74.00	-41.52 peak
2 1687.347	3.42	26.62	40.62	45.84	35.26	74.00	-38.74 peak
3 3485.601	5.50	31.68	41.70	46.48	41.96	68.20	-26.24 peak
4 4495.125	6.76	33.59	42.55	47.12	44.92	68.20	-23.28 peak
5 10620.000	10.62	37.72	38.29	38.16	48.21	68.20	-19.99 peak
6 15930.000	14.12	40.94	40.57	36.55	51.04	74.00	-22.96 peak

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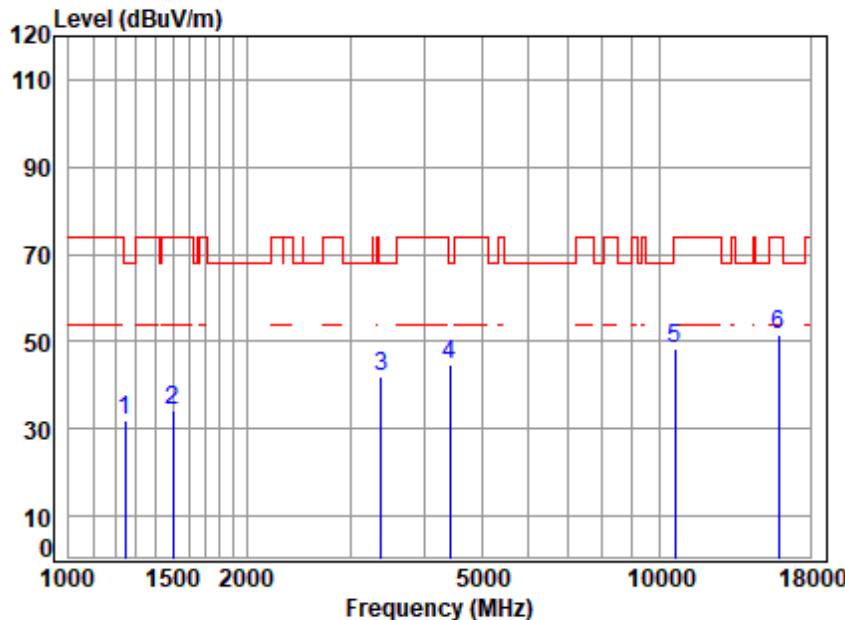
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:High



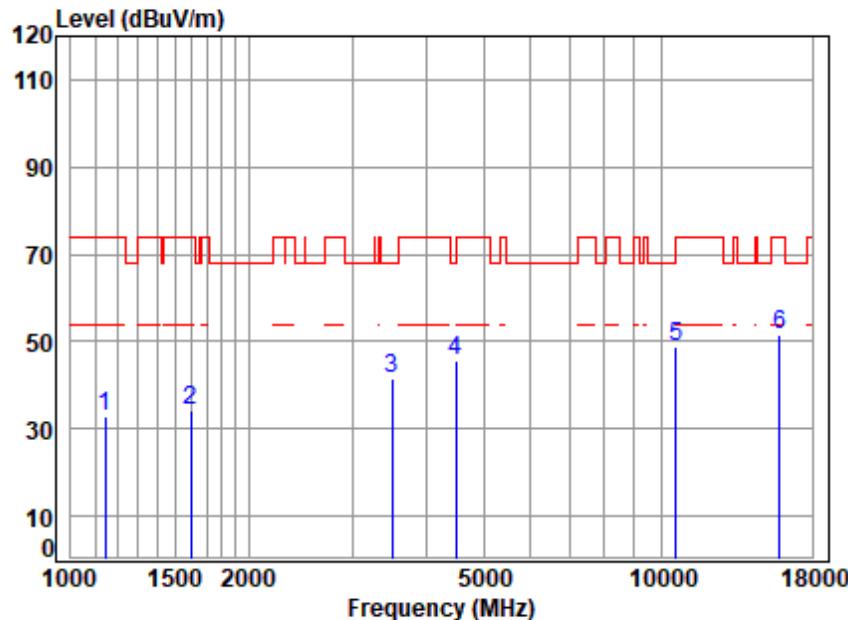
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5310 TX RSE
Note : 5G WIFI 11AX40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1245.663	2.85	24.79	40.32	44.84	32.16	68.20	-36.04 peak
2	1503.119	3.26	25.81	40.51	45.51	34.07	74.00	-39.93 peak
3	3386.297	5.38	31.53	41.60	46.58	41.89	68.20	-26.31 peak
4	4417.841	6.68	33.46	42.49	47.10	44.75	68.20	-23.45 peak
5	10620.000	10.62	37.72	38.29	38.16	48.21	68.20	-19.99 peak
6	15930.000	14.12	40.94	40.57	36.89	51.38	74.00	-22.62 peak

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



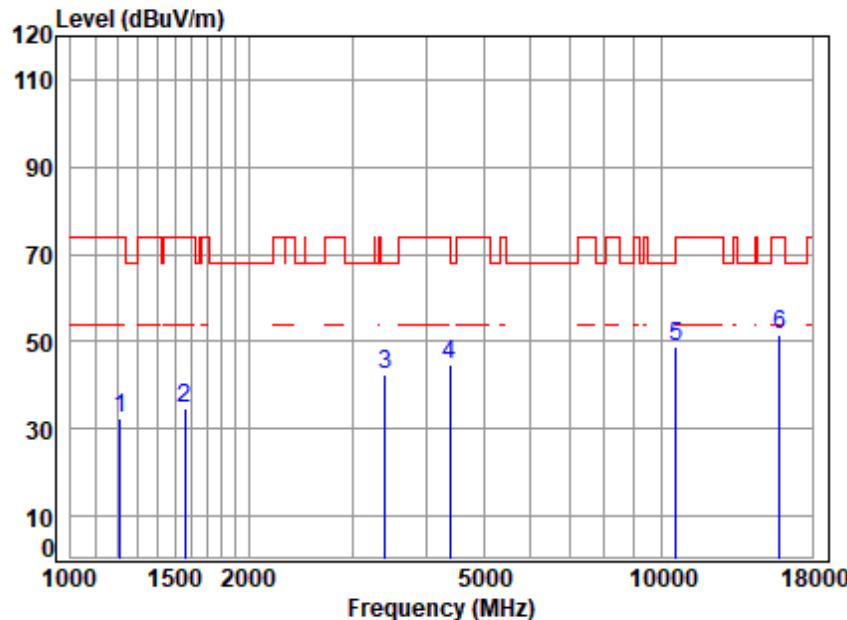
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5290 TX RSE
Note : 5G WIFI 11AX80
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1145.507	2.66	24.34	40.24	46.22	32.98	74.00	-41.02 peak
2 1597.181	3.35	26.24	40.57	45.23	34.25	74.00	-39.75 peak
3 3495.691	5.51	31.69	41.71	46.03	41.52	68.20	-26.68 peak
4 4482.150	6.74	33.57	42.54	47.97	45.74	68.20	-22.46 peak
5 10580.000	10.66	37.73	38.31	38.73	48.81	74.00	-25.19 peak
6 15870.000	14.14	40.98	40.57	36.95	51.50	74.00	-22.50 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5290 TX RSE
Note : 5G WIFI 11AX80
: 4TX

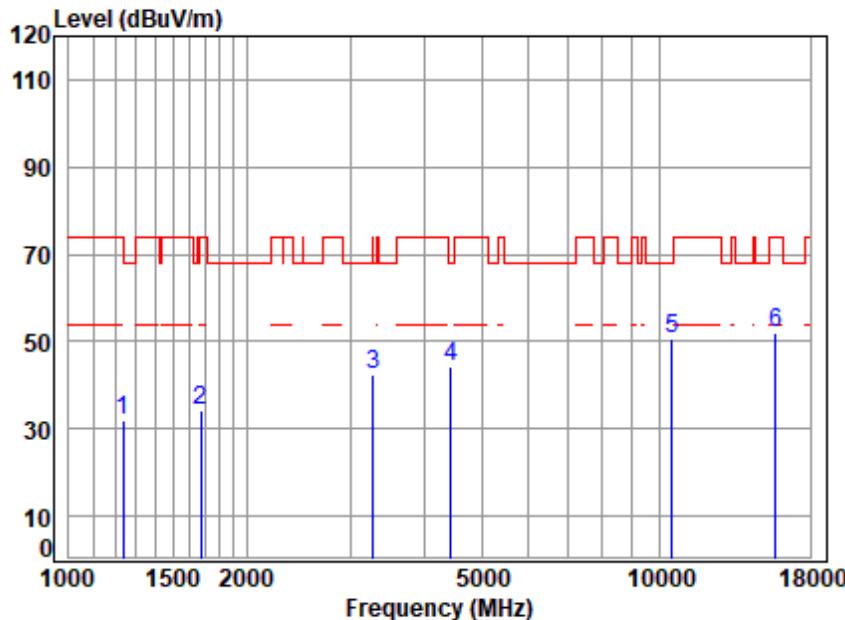
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1213.677	2.79	24.65	40.29	45.23	32.38	74.00	-41.62 peak
2	1560.673	3.31	26.08	40.55	45.87	34.71	74.00	-39.29 peak
3	3405.929	5.40	31.56	41.62	47.06	42.40	68.20	-25.80 peak
4	4379.699	6.65	33.39	42.46	46.96	44.54	74.00	-29.46 peak
5	10580.000	10.66	37.73	38.31	38.58	48.66	74.00	-25.34 peak
6	15870.000	14.14	40.98	40.57	36.88	51.43	74.00	-22.57 peak

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ax; Bandwidth: 160MHz



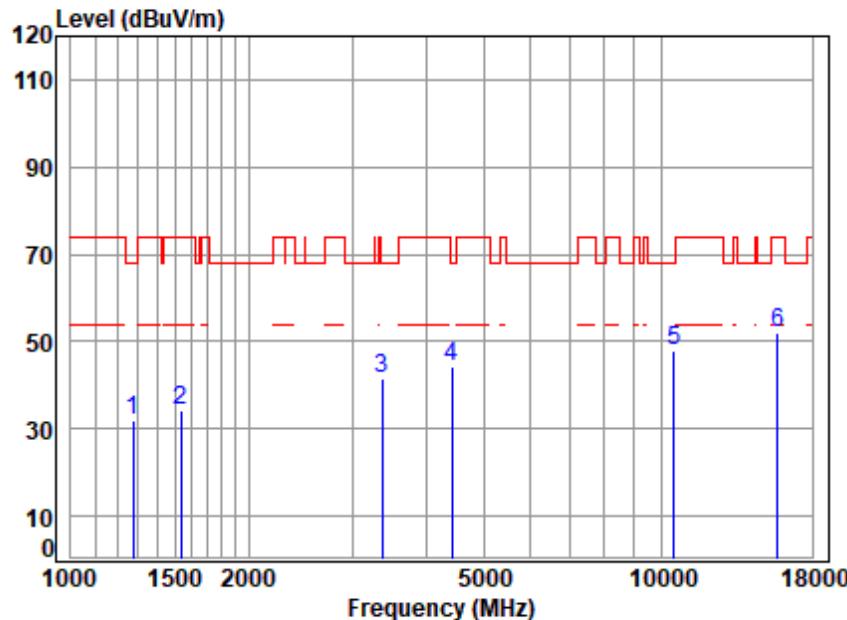
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5250 TX RSE
Note : 5G WIFI 11AX160
: 4TX

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	2.83	24.74	40.31	44.52	31.78	74.00	-42.22 peak
2 1672.779	3.41	26.56	40.62	44.86	34.21	74.00	-39.79 peak
3 3270.858	5.23	31.35	41.49	47.16	42.25	68.20	-25.95 peak
4 4443.453	6.71	33.50	42.51	46.78	44.48	68.20	-23.72 peak
5 10500.000	10.57	37.71	38.26	40.48	50.50	68.20	-17.70 peak
6 15750.000	14.08	40.89	40.57	37.39	51.79	74.00	-22.21 peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ax; Bandwidth: 160MHz



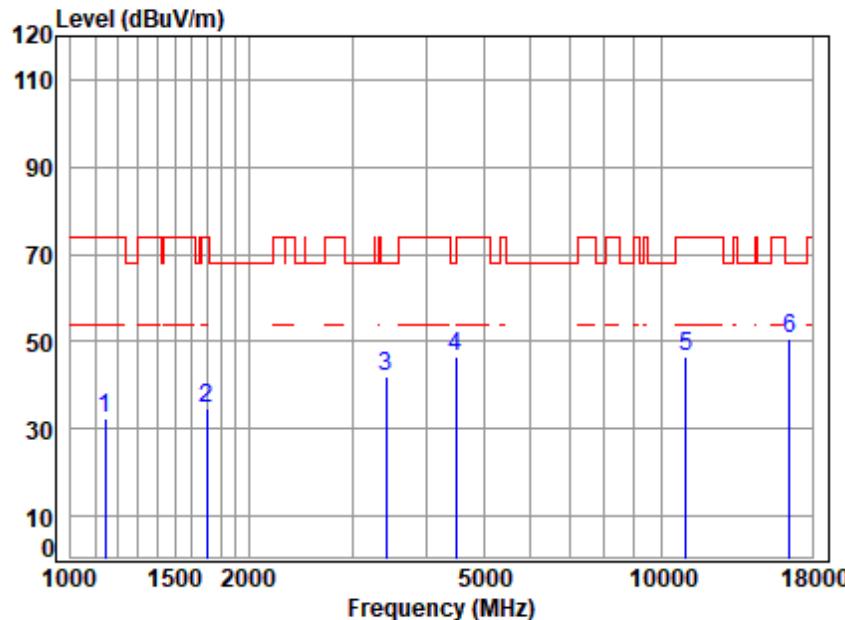
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5250 TX RSE
Note : 5G WIFI 11AX160
: 4TX

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	2.90	24.92	40.34	44.47	31.95	68.20	-36.25 peak
2 1533.841	3.29	25.96	40.53	45.30	34.02	74.00	-39.98 peak
3 3366.778	5.35	31.50	41.58	46.20	41.47	68.20	-26.73 peak
4 4417.841	6.68	33.46	42.49	46.67	44.32	68.20	-23.88 peak
5 10500.000	10.57	37.71	38.26	38.00	48.02	68.20	-20.18 peak
6 15750.000	14.08	40.89	40.57	37.74	52.14	74.00	-21.86 peak

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



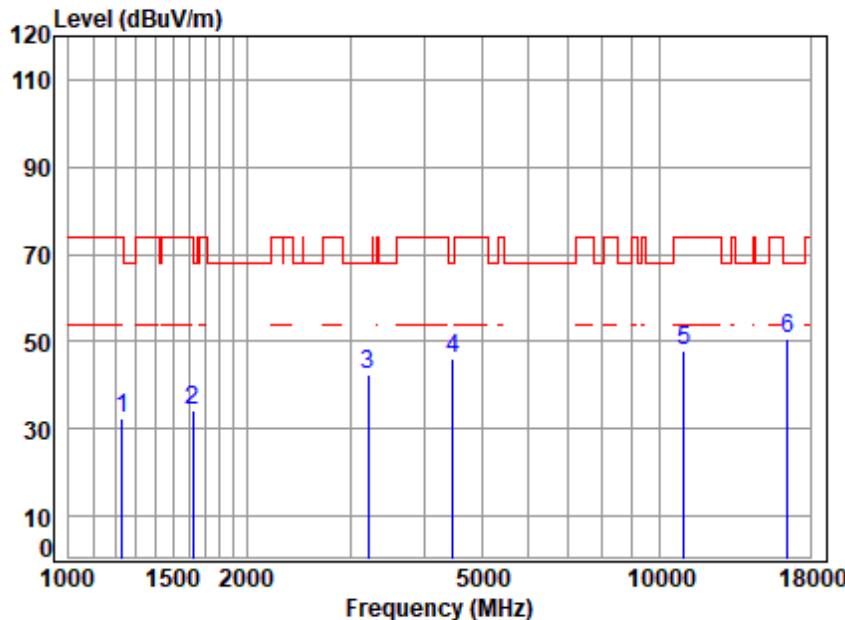
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5500 TX RSE
Note : 5G WIFI 11A
: 1TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1142.201	2.66	24.32	40.23	45.85	32.60	74.00	-41.40 peak
2 1697.129	3.43	26.66	40.63	45.37	34.83	74.00	-39.17 peak
3 3415.787	5.42	31.57	41.63	46.79	42.15	68.20	-26.05 peak
4 4495.125	6.76	33.59	42.55	48.67	46.47	68.20	-21.73 peak
5 11000.000	10.97	37.80	38.47	36.47	46.77	74.00	-27.23 peak
6 16500.000	14.82	42.20	40.55	34.39	50.86	68.20	-17.34 peak

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



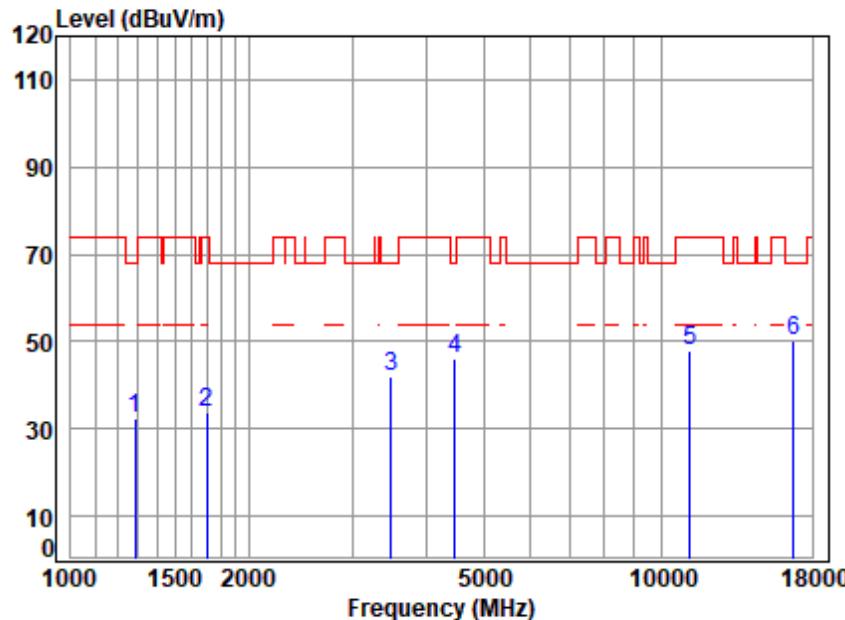
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5500 TX RSE
Note : 5G WIFI 11A
: 1TX

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	2.82	24.73	40.31	45.22	32.46	74.00	-41.54 peak
2 1625.121	3.37	26.36	40.59	45.19	34.33	74.00	-39.67 peak
3 3214.623	5.16	31.26	41.43	47.24	42.23	68.20	-25.97 peak
4 4469.214	6.73	33.55	42.53	48.43	46.18	68.20	-22.02 peak
5 11000.000	10.97	37.80	38.47	37.46	47.76	74.00	-26.24 peak
6 16500.000	14.82	42.20	40.55	34.11	50.58	68.20	-17.62 peak

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



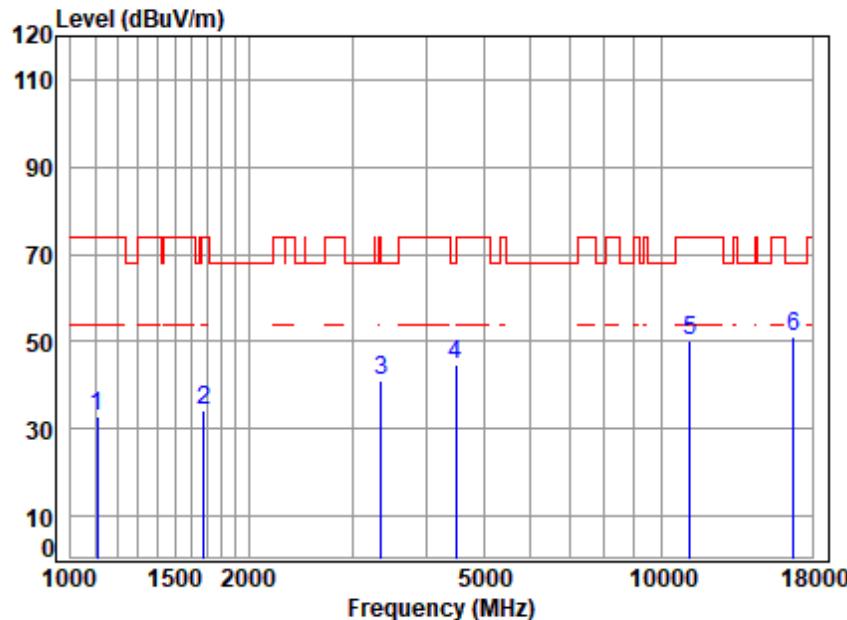
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5580 TX RSE
Note : 5G WIFI 11A
: 1TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1285.904	2.92	24.96	40.35	44.67	32.20	68.20	-36.00 peak
2 1697.129	3.43	26.66	40.63	44.31	33.77	74.00	-40.23 peak
3 3485.601	5.50	31.68	41.70	46.47	41.95	68.20	-26.25 peak
4 4469.214	6.73	33.55	42.53	48.38	46.13	68.20	-22.07 peak
5 11160.000	11.18	37.83	38.54	37.22	47.69	74.00	-26.31 peak
6 16740.000	14.51	42.39	40.54	33.99	50.35	68.20	-17.85 peak

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



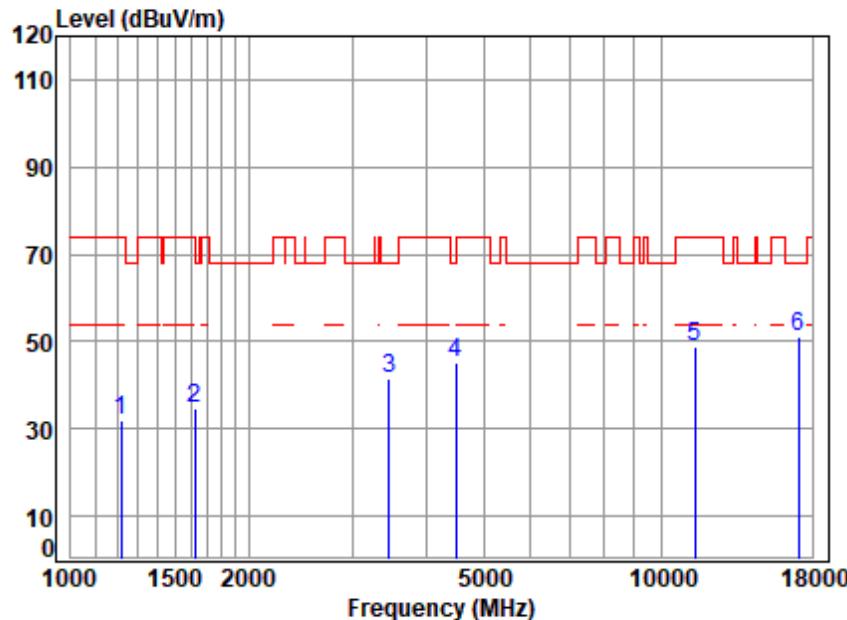
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5580 TX RSE
Note : 5G WIFI 11A
: 1TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1109.660	2.59	24.16	40.20	46.38	32.93	74.00	-41.07 peak
2	1677.621	3.41	26.58	40.62	44.94	34.31	74.00	-39.69 peak
3	3357.061	5.34	31.48	41.57	45.99	41.24	74.00	-32.76 peak
4	4482.150	6.74	33.57	42.54	46.73	44.50	68.20	-23.70 peak
5	11160.000	11.18	37.83	38.54	39.52	49.99	74.00	-24.01 peak
6	16740.000	14.51	42.39	40.54	34.91	51.27	68.20	-16.93 peak

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



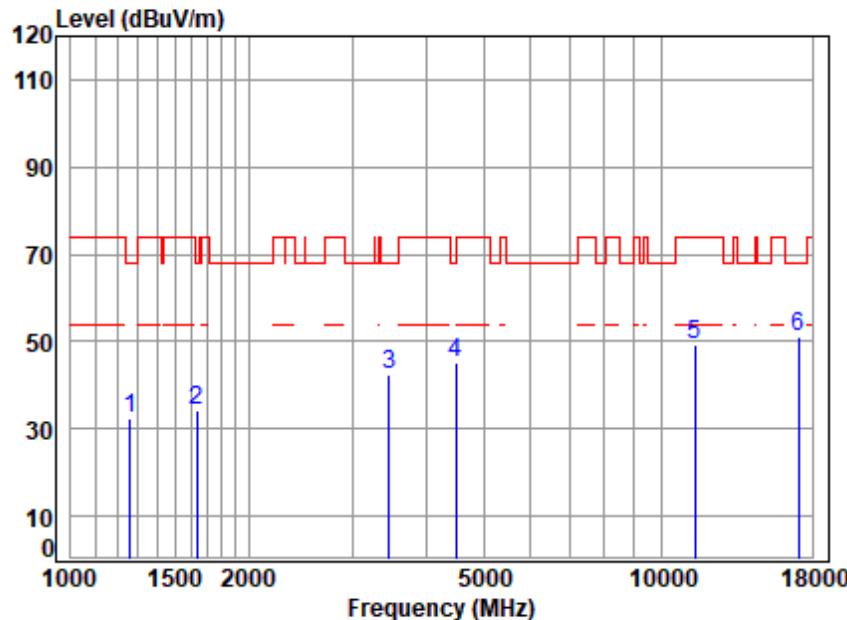
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5700 TX RSE
Note : 5G WIFI 11A
: 1TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1217.190	2.80	24.67	40.30	44.89	32.06	74.00	-41.94 peak
2 1620.431	3.36	26.34	40.58	45.40	34.52	74.00	-39.48 peak
3 3455.508	5.47	31.63	41.67	46.04	41.47	68.20	-26.73 peak
4 4482.150	6.74	33.57	42.54	47.19	44.96	68.20	-23.24 peak
5 11400.000	11.50	37.88	38.65	37.91	48.64	74.00	-25.36 peak
6 17100.000	14.14	42.66	40.53	34.65	50.92	68.20	-17.28 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5700 TX RSE
Note : 5G WIFI 11A
: 1TX

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	2.87	24.85	40.33	44.83	32.22	68.20	-35.98 peak
2 1634.543	3.38	26.40	40.59	44.82	34.01	68.20	-34.19 peak
3 3465.510	5.48	31.65	41.68	46.94	42.39	68.20	-25.81 peak
4 4495.125	6.76	33.59	42.55	47.21	45.01	68.20	-23.19 peak
5 11400.000	11.50	37.88	38.65	38.56	49.29	74.00	-24.71 peak
6 17100.000	14.14	42.66	40.53	34.88	51.15	68.20	-17.05 peak

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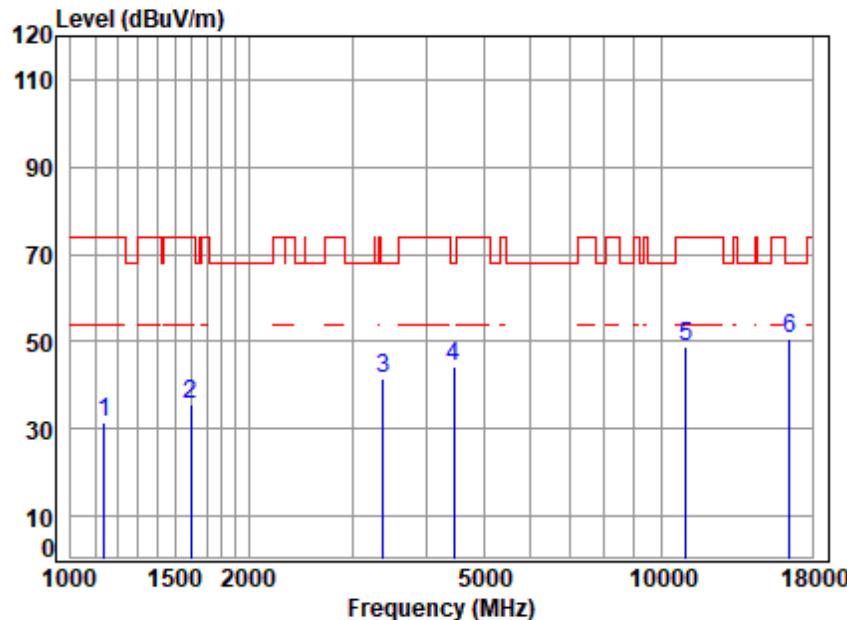
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Shenzhen Branch Inspection & Testing Services Laboratory

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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



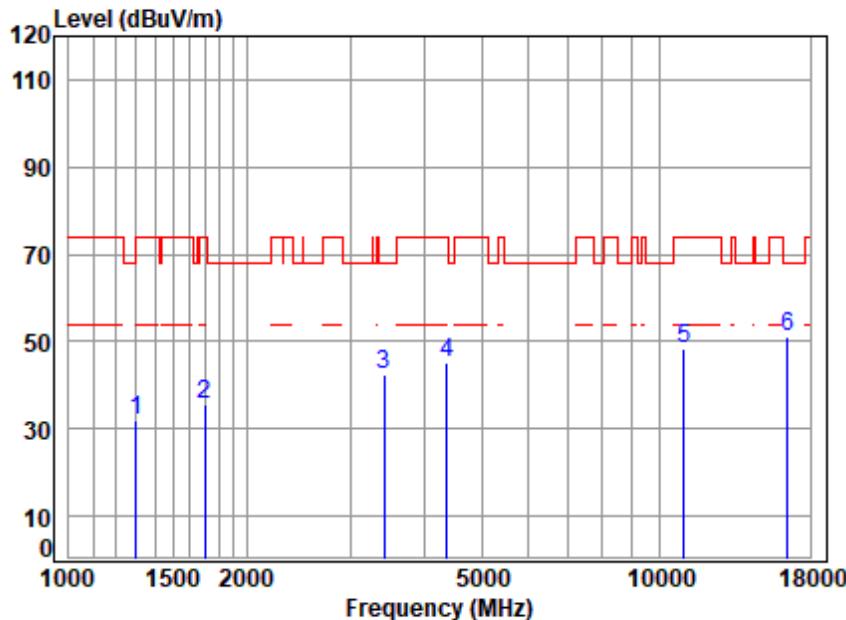
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5500 TX RSE
Note : 5G WIFI 11N20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1138.904	2.65	24.31	40.23	44.97	31.70	74.00	-42.30 peak
2	1597.181	3.35	26.24	40.57	46.50	35.52	74.00	-38.48 peak
3	3376.523	5.37	31.51	41.59	46.16	41.45	68.20	-26.75 peak
4	4456.315	6.72	33.53	42.52	46.51	44.24	68.20	-23.96 peak
5	11000.000	10.97	37.80	38.47	38.38	48.68	74.00	-25.32 peak
6	16500.000	14.82	42.20	40.55	34.33	50.80	68.20	-17.40 peak

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



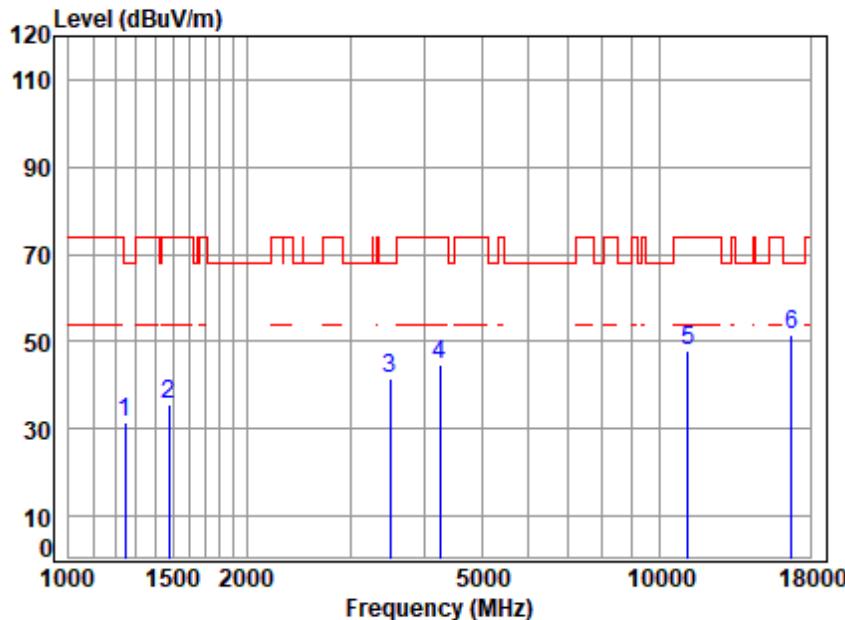
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5500 TX RSE
Note : 5G WIFI 11n20
: 4TX

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	2.94	25.03	40.36	44.45	32.06	74.00	-41.94 peak
2 1697.129	3.43	26.66	40.63	46.11	35.57	74.00	-38.43 peak
3 3415.787	5.42	31.57	41.63	46.98	42.34	68.20	-25.86 peak
4 4367.058	6.64	33.37	42.45	47.50	45.06	74.00	-28.94 peak
5 11000.000	10.97	37.80	38.47	37.85	48.15	74.00	-25.85 peak
6 16500.000	14.82	42.20	40.55	34.64	51.11	68.20	-17.09 peak

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



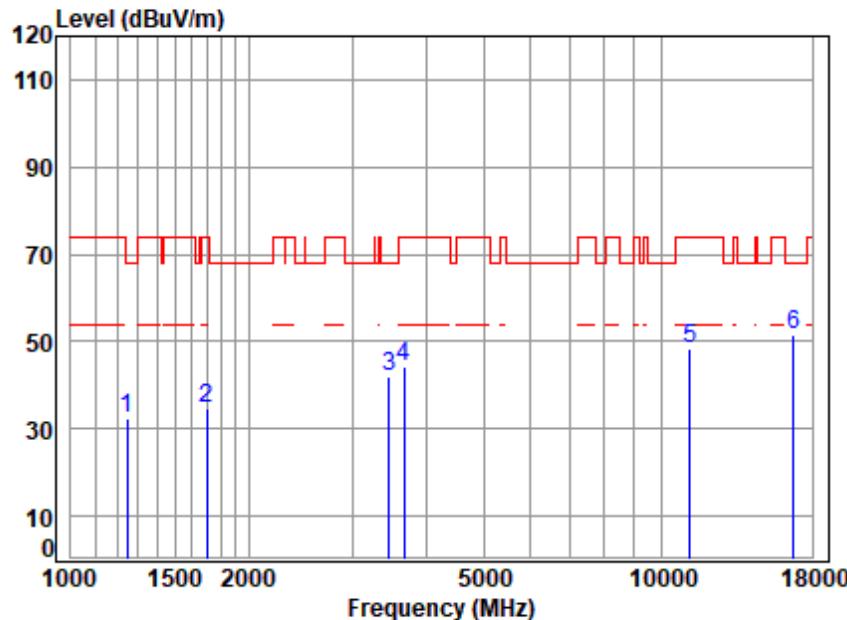
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5580 TX RSE
Note : 5G WIFI 11N20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1245.663	2.85	24.79	40.32	44.05	31.37	68.20	-36.83 peak
2 1477.276	3.23	25.72	40.49	47.20	35.66	74.00	-38.34 peak
3 3495.691	5.51	31.69	41.71	46.01	41.50	68.20	-26.70 peak
4 4254.921	6.53	33.17	42.36	47.25	44.59	74.00	-29.41 peak
5 11160.000	11.18	37.83	38.54	37.37	47.84	74.00	-26.16 peak
6 16740.000	14.51	42.39	40.54	35.04	51.40	68.20	-16.80 peak

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



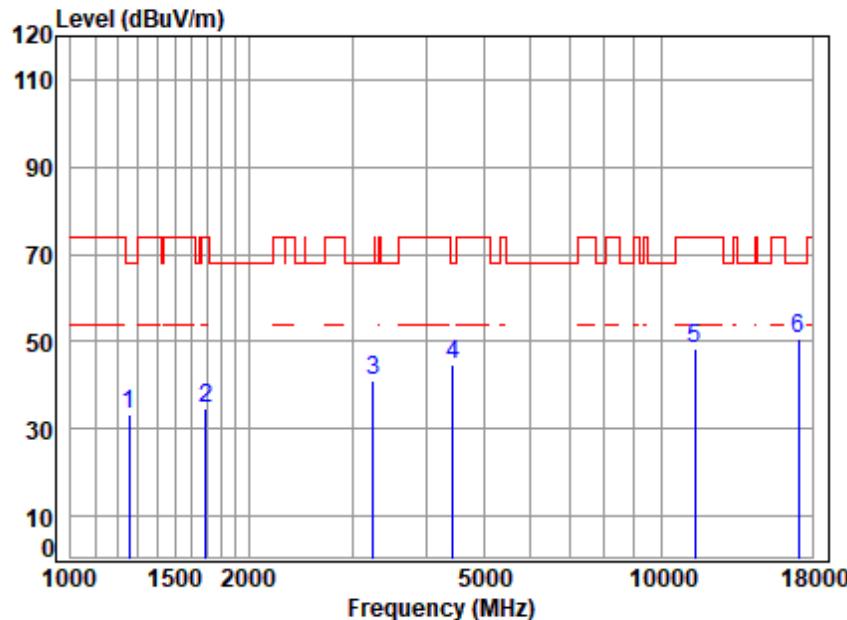
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5580 TX RSE
Note : 5G WIFI 11N20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1245.663	2.85	24.79	40.32	45.18	32.50	68.20	-35.70 peak
2 1702.042	3.43	26.68	40.63	45.30	34.78	74.00	-39.22 peak
3 3465.510	5.48	31.65	41.68	46.50	41.95	68.20	-26.25 peak
4 3671.746	5.79	32.06	41.87	48.32	44.30	74.00	-29.70 peak
5 11160.000	11.18	37.83	38.54	37.68	48.15	74.00	-25.85 peak
6 16740.000	14.51	42.39	40.54	35.43	51.79	68.20	-16.41 peak

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



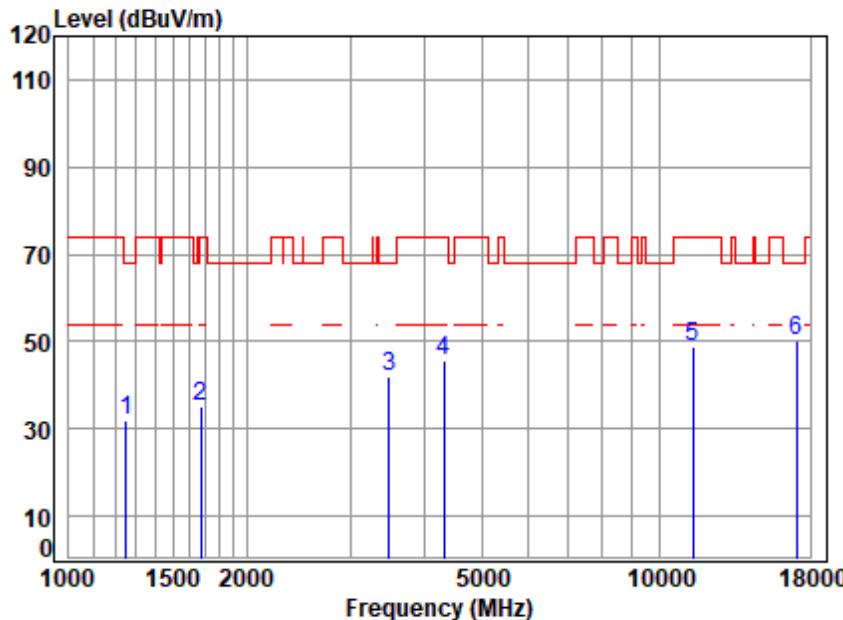
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5700 TX RSE
Note : 5G WIFI 11N20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1256.512	2.87	24.84	40.33	45.83	33.21	68.20	-34.99 peak
2 1692.231	3.42	26.64	40.63	45.22	34.65	74.00	-39.35 peak
3 3252.005	5.21	31.32	41.47	46.15	41.21	68.20	-26.99 peak
4 4443.453	6.71	33.50	42.51	47.12	44.82	68.20	-23.38 peak
5 11400.000	11.50	37.88	38.65	37.62	48.35	74.00	-25.65 peak
6 17100.000	14.14	42.66	40.53	34.39	50.66	68.20	-17.54 peak

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



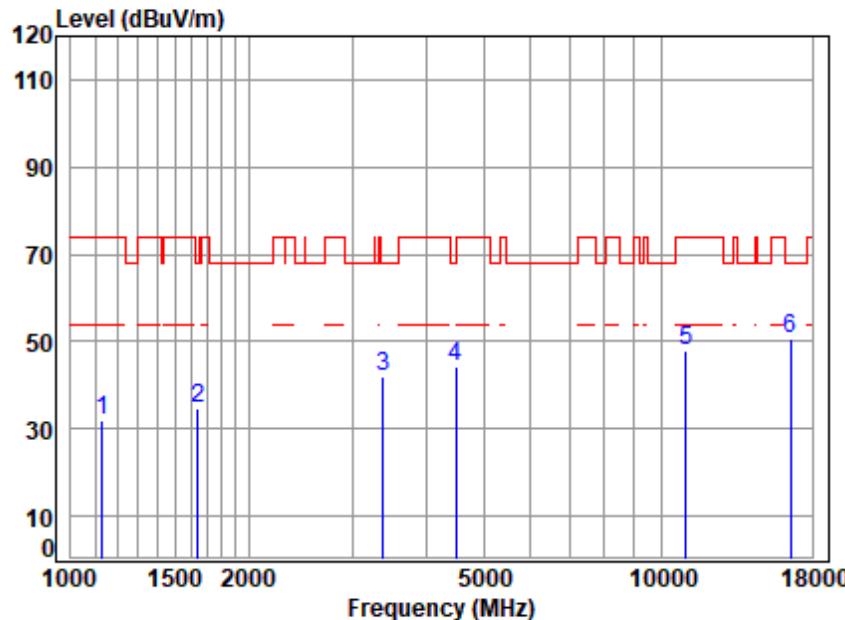
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5700 TX RSE
Note : 5G WIFI 11N20
: 4TX

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	2.86	24.82	40.33	44.64	31.99	68.20	-36.21 peak
2 1672.779	3.41	26.56	40.62	45.99	35.34	74.00	-38.66 peak
3 3485.601	5.50	31.68	41.70	46.50	41.98	68.20	-26.22 peak
4 4316.859	6.59	33.28	42.41	48.38	45.84	74.00	-28.16 peak
5 11400.000	11.50	37.88	38.65	38.20	48.93	74.00	-25.07 peak
6 17100.000	14.14	42.66	40.53	34.08	50.35	68.20	-17.85 peak

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



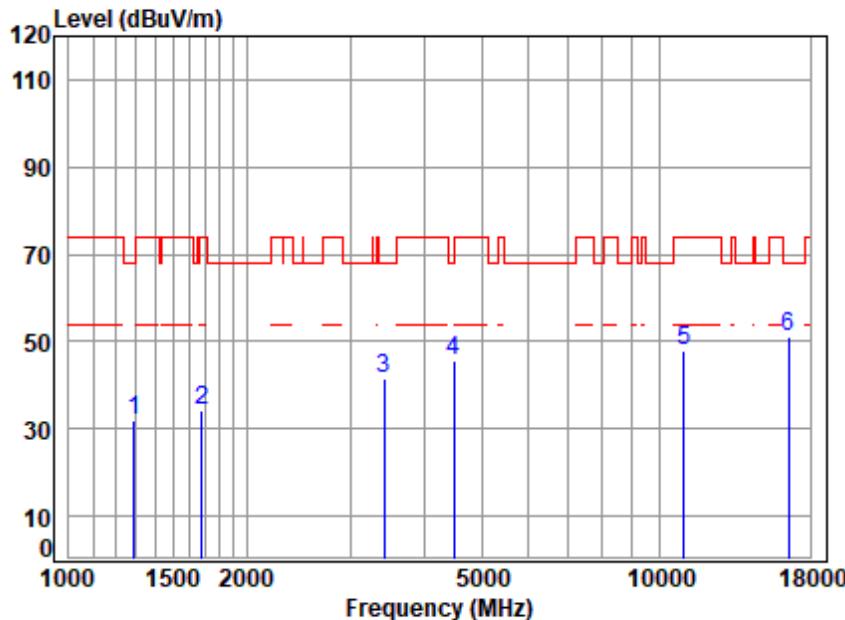
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5510 TX RSE
Note : 5G WIFI 11N40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1129.072	2.63	24.26	40.22	45.25	31.92	74.00	-42.08 peak
2 1639.274	3.38	26.42	40.59	45.45	34.66	68.20	-33.54 peak
3 3386.297	5.38	31.53	41.60	46.63	41.94	68.20	-26.26 peak
4 4495.125	6.76	33.59	42.55	46.52	44.32	68.20	-23.88 peak
5 11020.000	11.00	37.80	38.48	37.78	48.10	74.00	-25.90 peak
6 16530.000	14.78	42.22	40.55	34.05	50.50	68.20	-17.70 peak

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



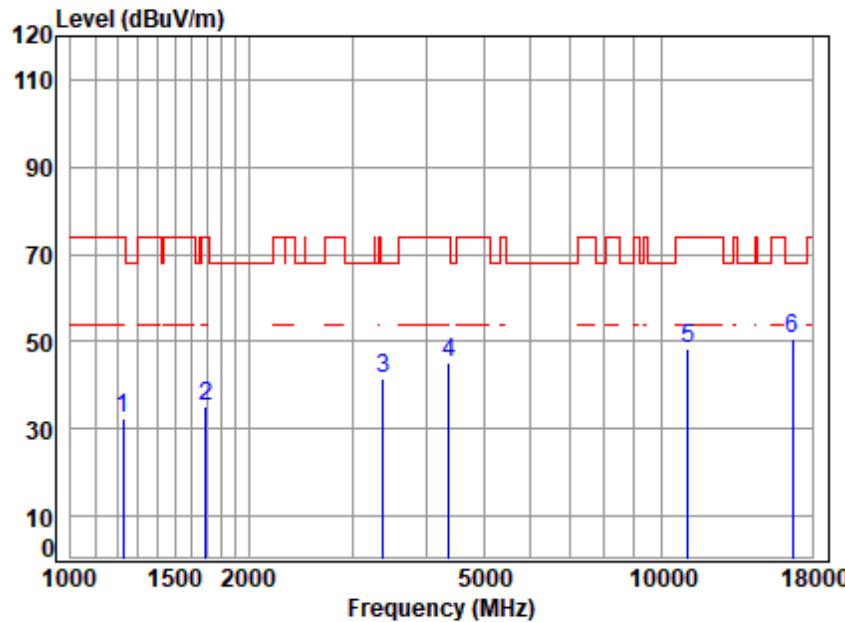
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5510 TX RSE
Note : 5G WIFI 11N40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1289.627	2.92	24.98	40.35	44.50	32.05	68.20	-36.15 peak
2 1677.621	3.41	26.58	40.62	44.94	34.31	74.00	-39.69 peak
3 3425.675	5.43	31.59	41.64	46.14	41.52	68.20	-26.68 peak
4 4495.125	6.76	33.59	42.55	48.05	45.85	68.20	-22.35 peak
5 11020.000	11.00	37.80	38.48	37.71	48.03	74.00	-25.97 peak
6 16530.000	14.78	42.22	40.55	34.86	51.31	68.20	-16.89 peak

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



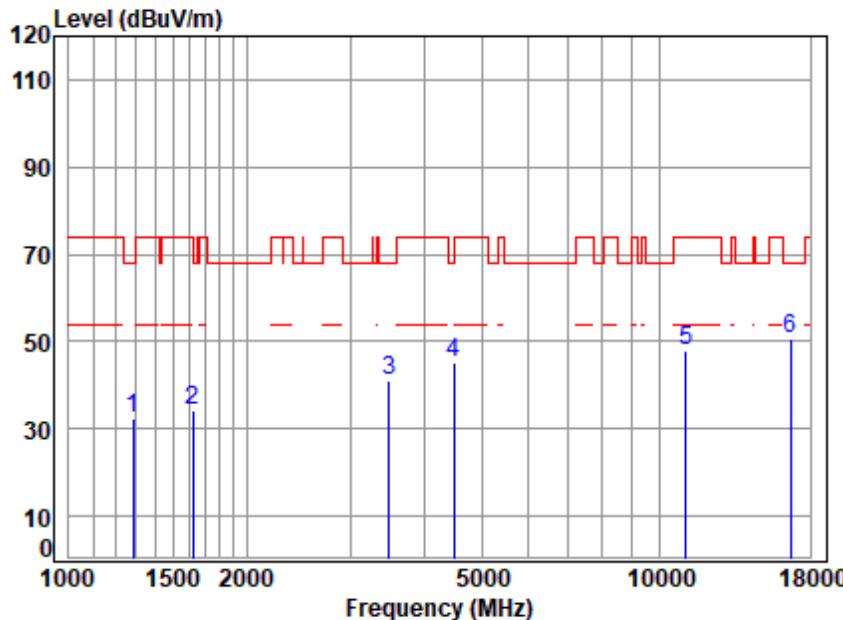
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5550 TX RSE
Note : 5G WIFI 11N40
: 4TX

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	2.82	24.71	40.31	45.33	32.55	74.00	-41.45 peak
2 1692.231	3.42	26.64	40.63	45.65	35.08	74.00	-38.92 peak
3 3376.523	5.37	31.51	41.59	46.09	41.38	68.20	-26.82 peak
4 4367.058	6.64	33.37	42.45	47.70	45.26	74.00	-28.74 peak
5 11100.000	11.10	37.82	38.52	38.10	48.50	74.00	-25.50 peak
6 16650.000	14.62	42.32	40.54	34.21	50.61	68.20	-17.59 peak

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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



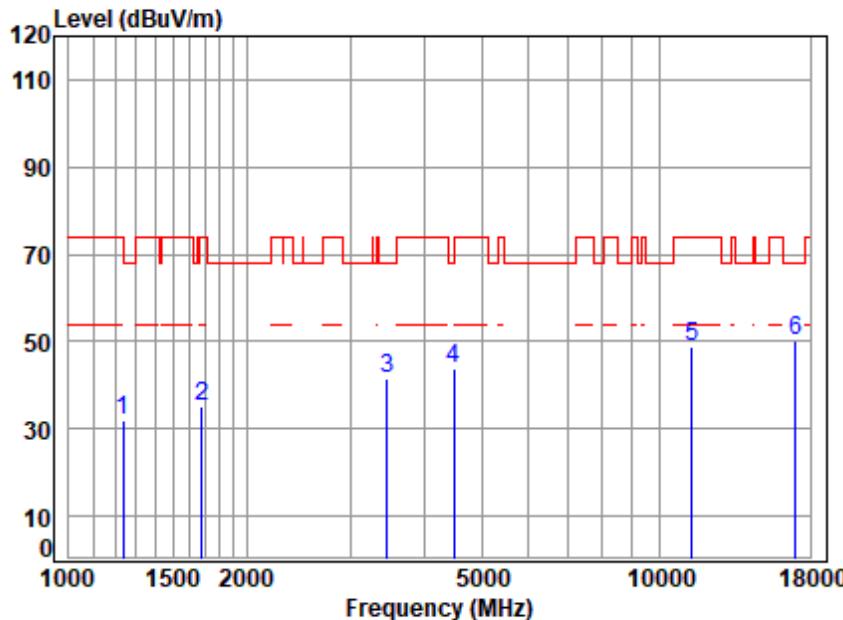
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5550 TX RSE
Note : 5G WIFI 11N40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1285.904	2.92	24.96	40.35	45.01	32.54	68.20	-35.66 peak
2 1620.431	3.36	26.34	40.58	45.27	34.39	74.00	-39.61 peak
3 3485.601	5.50	31.68	41.70	45.58	41.06	68.20	-27.14 peak
4 4482.150	6.74	33.57	42.54	47.21	44.98	68.20	-23.22 peak
5 11100.000	11.10	37.82	38.52	37.64	48.04	74.00	-25.96 peak
6 16650.000	14.62	42.32	40.54	34.13	50.53	68.20	-17.67 peak

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



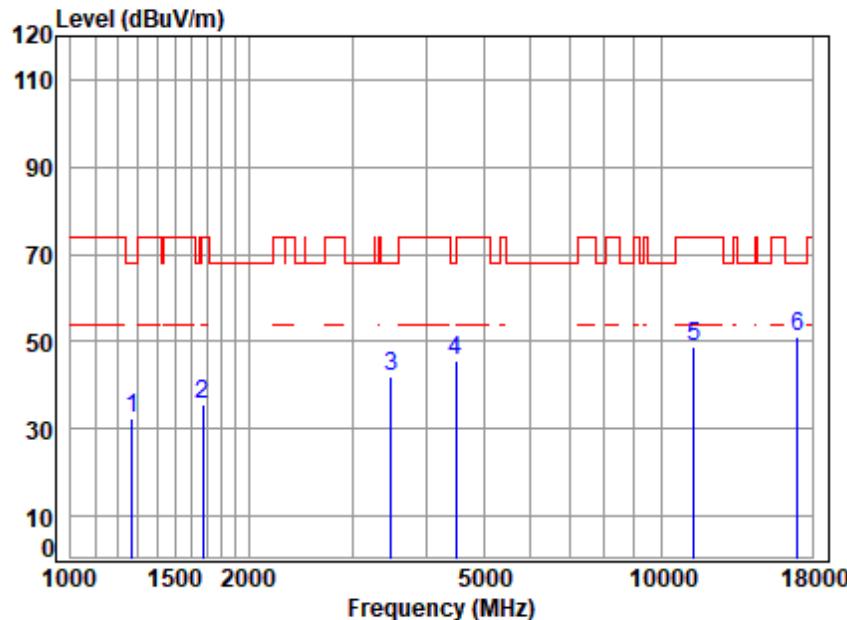
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5670 TX RSE
Note : 5G WIFI 11N40
: 4TX

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	2.83	24.76	40.31	44.80	32.08	74.00	-41.92 peak
2	1677.621	3.41	26.58	40.62	45.61	34.98	74.00	-39.02 peak
3	3465.510	5.48	31.65	41.68	46.12	41.57	68.20	-26.63 peak
4	4495.125	6.76	33.59	42.55	45.96	43.76	68.20	-24.44 peak
5	11340.000	11.42	37.87	38.62	38.00	48.67	74.00	-25.33 peak
6	17010.000	14.17	42.61	40.53	34.05	50.30	68.20	-17.90 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5670 TX RSE
Note : 5G WIFI 11N40
: 4TX

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	2.89	24.90	40.34	45.12	32.57	68.20	-35.63 peak
2 1672.779	3.41	26.56	40.62	46.41	35.76	74.00	-38.24 peak
3 3485.601	5.50	31.68	41.70	46.48	41.96	68.20	-26.24 peak
4 4495.125	6.76	33.59	42.55	47.96	45.76	68.20	-22.44 peak
5 11340.000	11.42	37.87	38.62	38.05	48.72	74.00	-25.28 peak
6 17010.000	14.17	42.61	40.53	34.86	51.11	68.20	-17.09 peak

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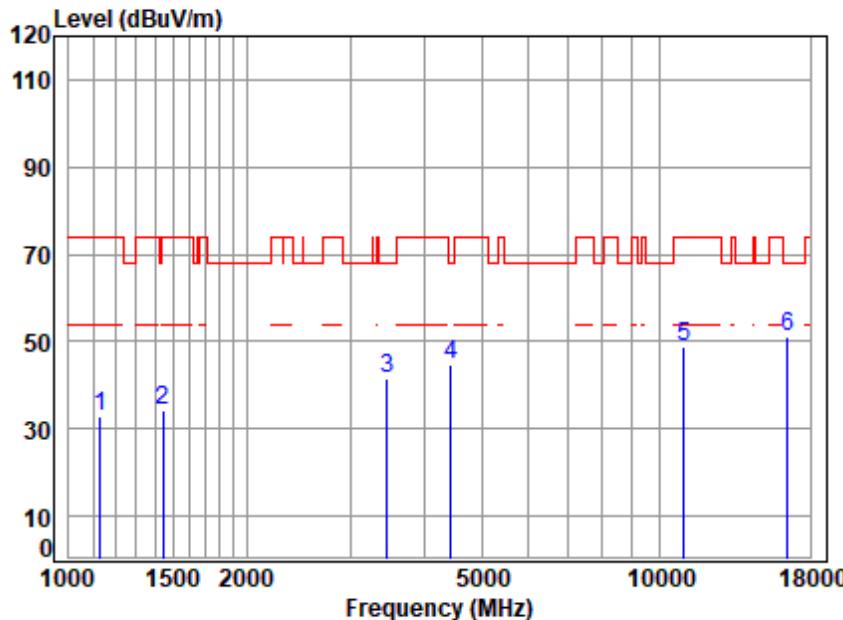
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Shenzhen Branch Inspection & Testing Services Laboratory

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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



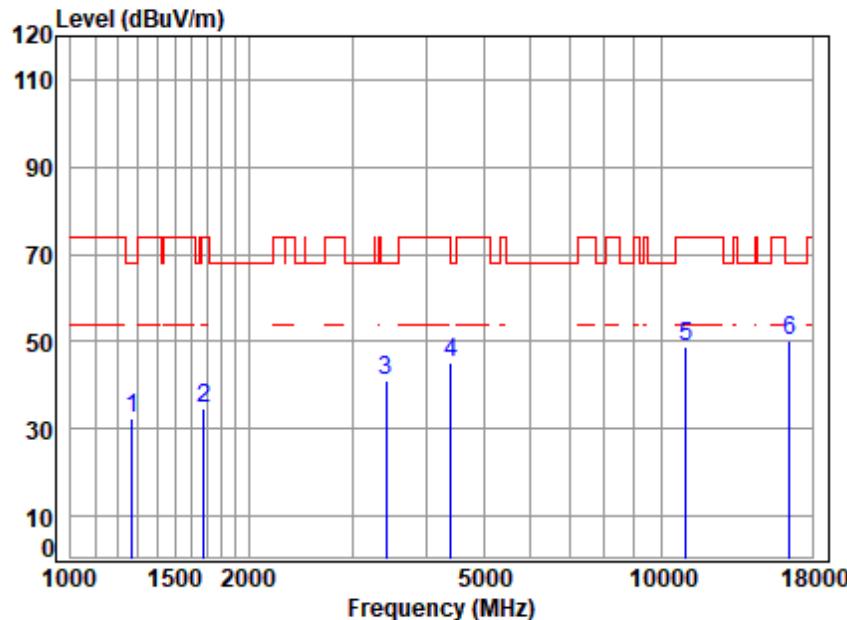
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5500 TX RSE
Note : 5G WIFI 11AC20
: 4TX

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	2.64	24.27	40.22	46.05	32.74	74.00	-41.26 peak
2 1443.509	3.17	25.59	40.47	45.82	34.11	74.00	-39.89 peak
3 3465.510	5.48	31.65	41.68	46.14	41.59	68.20	-26.61 peak
4 4430.628	6.70	33.48	42.50	46.84	44.52	68.20	-23.68 peak
5 11000.000	10.97	37.80	38.47	38.70	49.00	74.00	-25.00 peak
6 16500.000	14.82	42.20	40.55	34.58	51.05	68.20	-17.15 peak

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



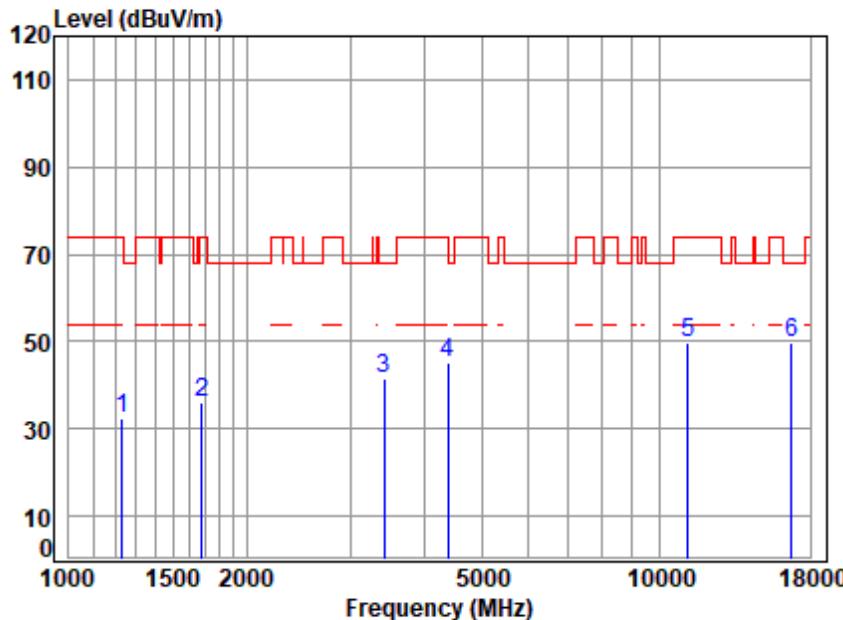
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5500 TX RSE
Note : 5G WIFI 11AC20
: 4TX

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 1271.123	2.89	24.90	40.34	44.92	32.37	68.20	-35.83 peak
2 1677.621	3.41	26.58	40.62	45.45	34.82	74.00	-39.18 peak
3 3415.787	5.42	31.57	41.63	45.78	41.14	68.20	-27.06 peak
4 4405.090	6.67	33.44	42.48	47.36	44.99	68.20	-23.21 peak
5 11000.000	10.97	37.80	38.47	38.58	48.88	74.00	-25.12 peak
6 16500.000	14.82	42.20	40.55	33.94	50.41	68.20	-17.79 peak

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



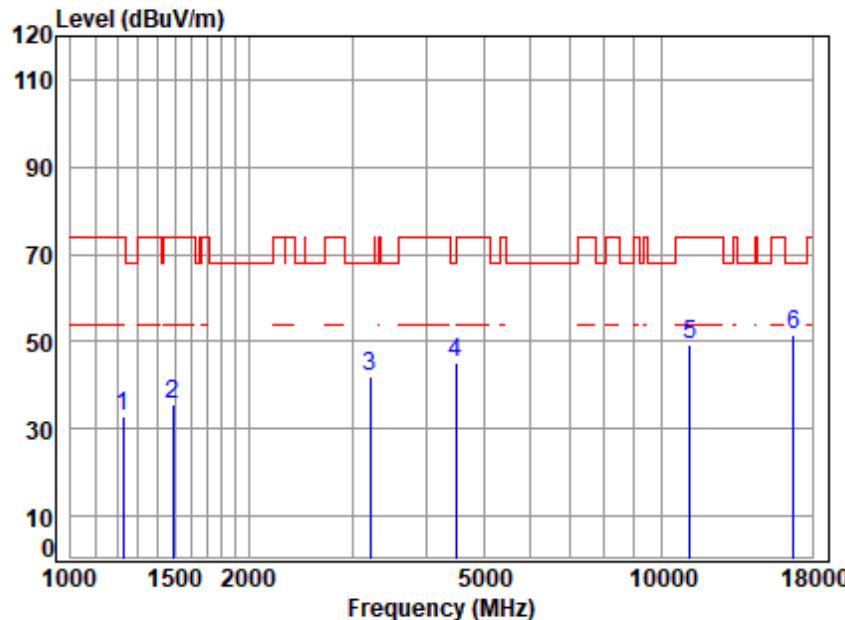
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5580 TX RSE
Note : 5G WIFI 11AC20
: 4TX

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	2.82	24.73	40.31	45.12	32.36	74.00	-41.64 peak
2 1677.621	3.41	26.58	40.62	46.83	36.20	74.00	-37.80 peak
3 3425.675	5.43	31.59	41.64	46.15	41.53	68.20	-26.67 peak
4 4379.699	6.65	33.39	42.46	47.37	44.95	74.00	-29.05 peak
5 11160.000	11.18	37.83	38.54	39.30	49.77	74.00	-24.23 peak
6 16740.000	14.51	42.39	40.54	33.60	49.96	68.20	-18.24 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5580 TX RSE
Note : 5G WIFI 11AC20
: 4TX

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	2.82	24.71	40.31	45.83	33.05	74.00	-40.95 peak
2 1490.142	3.25	25.76	40.50	46.97	35.48	74.00	-38.52 peak
3 3214.623	5.16	31.26	41.43	46.82	41.81	68.20	-26.39 peak
4 4495.125	6.76	33.59	42.55	47.58	45.38	68.20	-22.82 peak
5 11160.000	11.18	37.83	38.54	38.66	49.13	74.00	-24.87 peak
6 16740.000	14.51	42.39	40.54	35.23	51.59	68.20	-16.61 peak

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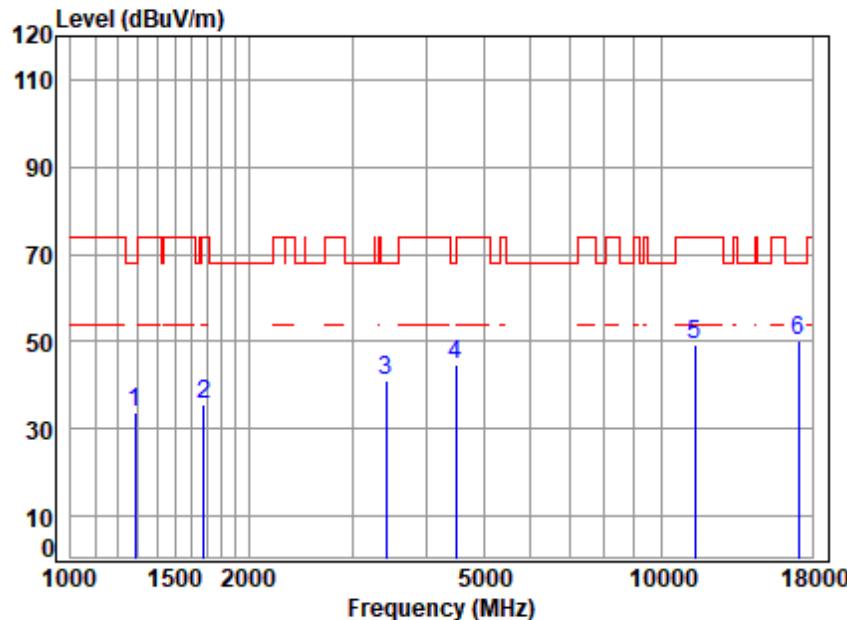
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Shenzhen Branch Inspection & Testing Services Laboratory

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5700 TX RSE
Note : 5G WIFI 11AC20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1285.904	2.92	24.96	40.35	46.36	33.89	68.20	-34.31 peak
2 1682.477	3.42	26.60	40.62	46.07	35.47	74.00	-38.53 peak
3 3415.787	5.42	31.57	41.63	45.61	40.97	68.20	-27.23 peak
4 4495.125	6.76	33.59	42.55	46.70	44.50	68.20	-23.70 peak
5 11400.000	11.50	37.88	38.65	38.47	49.20	74.00	-24.80 peak
6 17100.000	14.14	42.66	40.53	33.92	50.19	68.20	-18.01 peak

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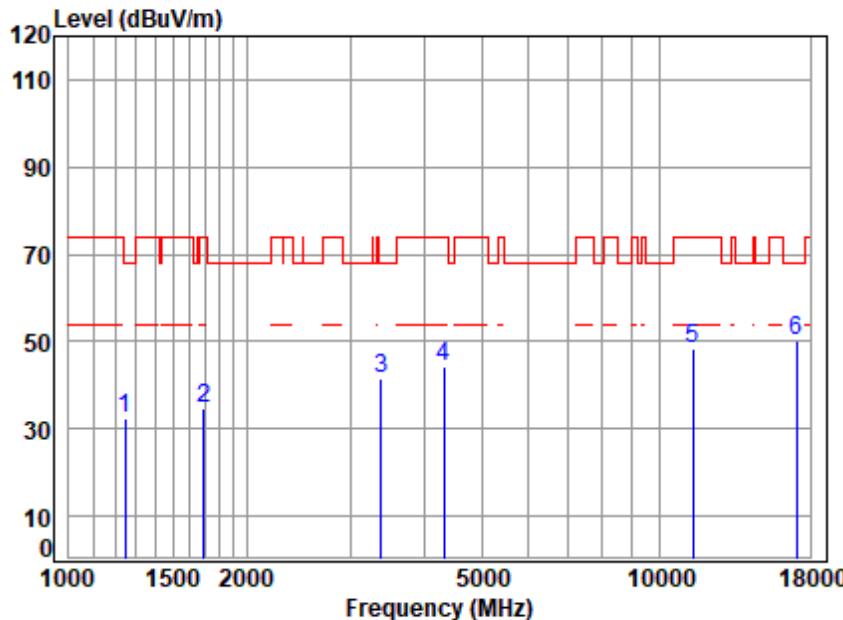
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



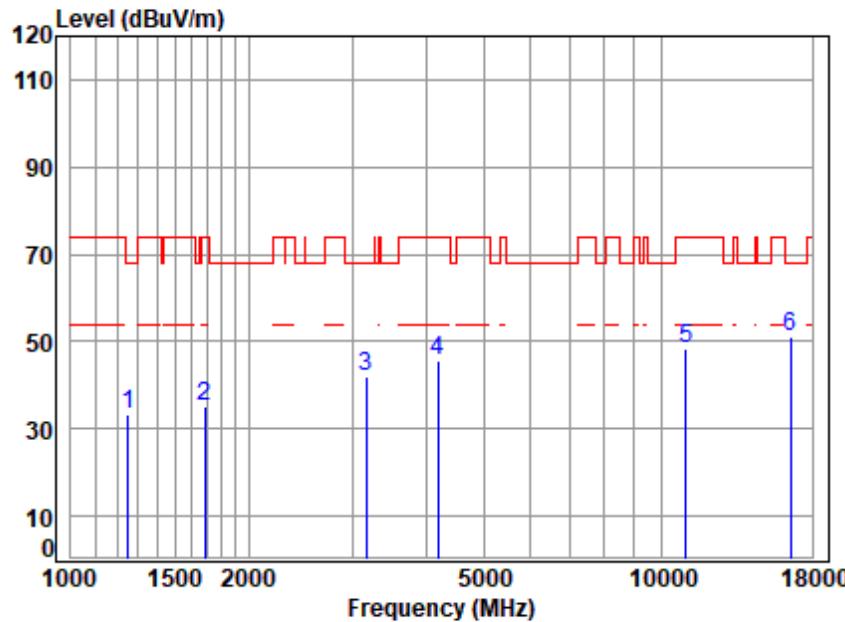
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5700 TX RSE
Note : 5G WIFI 11AC20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1245.663	2.85	24.79	40.32	44.86	32.18	68.20	-36.02 peak
2 1692.231	3.42	26.64	40.63	45.19	34.62	74.00	-39.38 peak
3 3386.297	5.38	31.53	41.60	46.08	41.39	68.20	-26.81 peak
4 4316.859	6.59	33.28	42.41	46.78	44.24	74.00	-29.76 peak
5 11400.000	11.50	37.88	38.65	37.44	48.17	74.00	-25.83 peak
6 17100.000	14.14	42.66	40.53	34.02	50.29	68.20	-17.91 peak

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



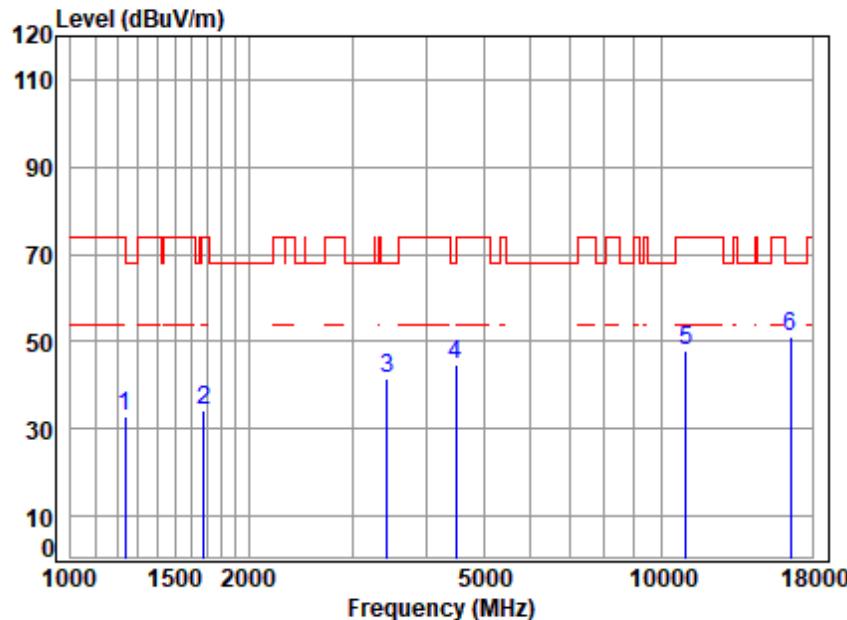
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5510 TX RSE
Note : 5G WIFI 11AC40
: 4TX

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	2.85	24.81	40.32	45.78	33.12	68.20	-35.08 peak
2 1687.347	3.42	26.62	40.62	45.94	35.36	74.00	-38.64 peak
3 3168.500	5.09	31.18	41.38	46.89	41.78	68.20	-26.42 peak
4 4181.768	6.46	33.04	42.31	48.27	45.46	74.00	-28.54 peak
5 11020.000	11.00	37.80	38.48	38.14	48.46	74.00	-25.54 peak
6 16530.000	14.78	42.22	40.55	34.44	50.89	68.20	-17.31 peak

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



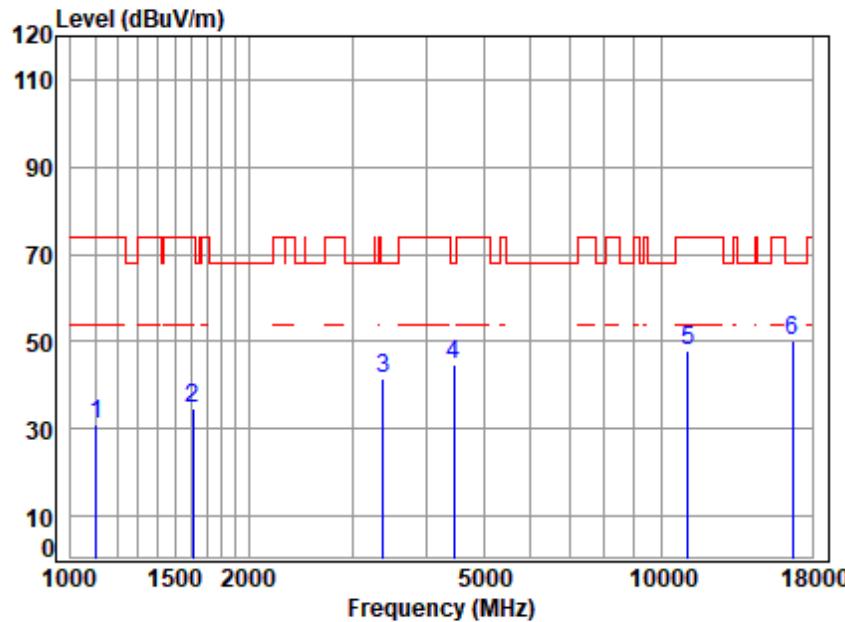
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5510 TX RSE
Note : 5G WIFI 11AC40
: 4TX

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	2.83	24.76	40.31	45.63	32.91	74.00	-41.09 peak
2	1682.477	3.42	26.60	40.62	44.97	34.37	74.00	-39.63 peak
3	3435.590	5.44	31.60	41.65	46.22	41.61	68.20	-26.59 peak
4	4495.125	6.76	33.59	42.55	46.79	44.59	68.20	-23.61 peak
5	11020.000	11.00	37.80	38.48	37.46	47.78	74.00	-26.22 peak
6	16530.000	14.78	42.22	40.55	34.48	50.93	68.20	-17.27 peak

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



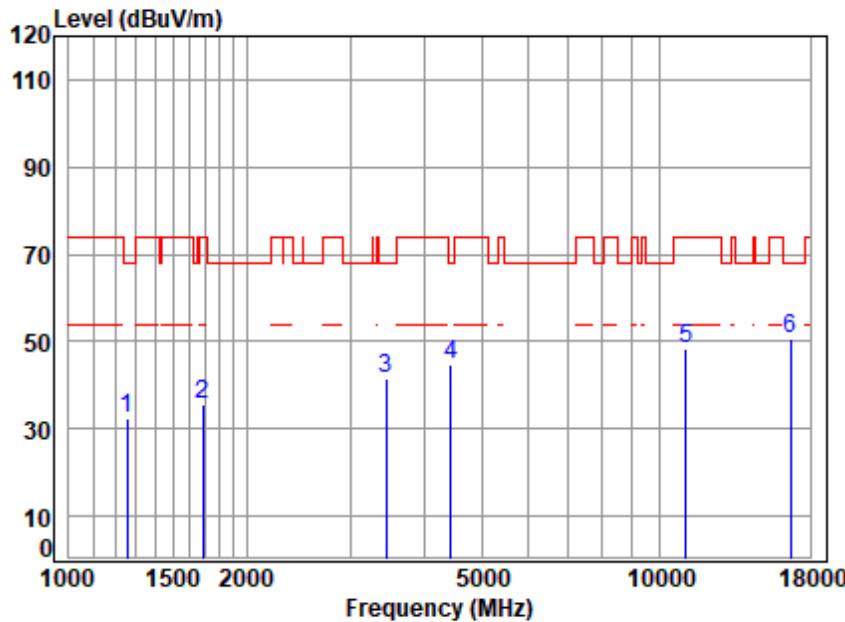
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5550 TX RSE
Note : 5G WIFI 11AC40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1106.457	2.58	24.15	40.20	44.72	31.25	74.00	-42.75 peak
2 1611.091	3.36	26.30	40.58	45.70	34.78	74.00	-39.22 peak
3 3376.523	5.37	31.51	41.59	46.29	41.58	68.20	-26.62 peak
4 4456.315	6.72	33.53	42.52	46.78	44.51	68.20	-23.69 peak
5 11100.000	11.10	37.82	38.52	37.48	47.88	74.00	-26.12 peak
6 16650.000	14.62	42.32	40.54	34.01	50.41	68.20	-17.79 peak

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



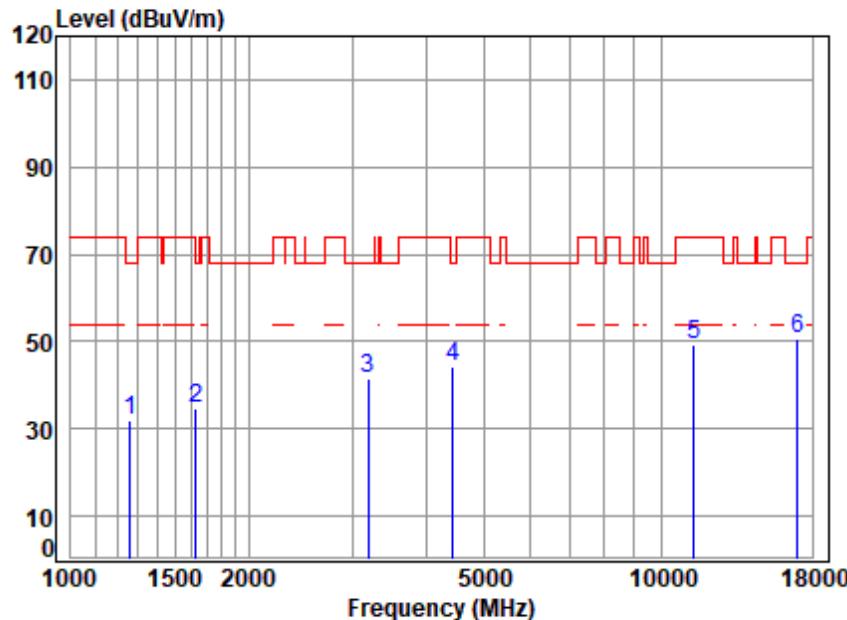
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5550 TX RSE
Note : 5G WIFI 11AC40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1256.512	2.87	24.84	40.33	45.15	32.53	68.20	-35.67 peak
2 1687.347	3.42	26.62	40.62	46.37	35.79	74.00	-38.21 peak
3 3445.535	5.45	31.62	41.66	46.04	41.45	68.20	-26.75 peak
4 4430.628	6.70	33.48	42.50	47.16	44.84	68.20	-23.36 peak
5 11100.000	11.10	37.82	38.52	37.95	48.35	74.00	-25.65 peak
6 16650.000	14.62	42.32	40.54	34.36	50.76	68.20	-17.44 peak

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



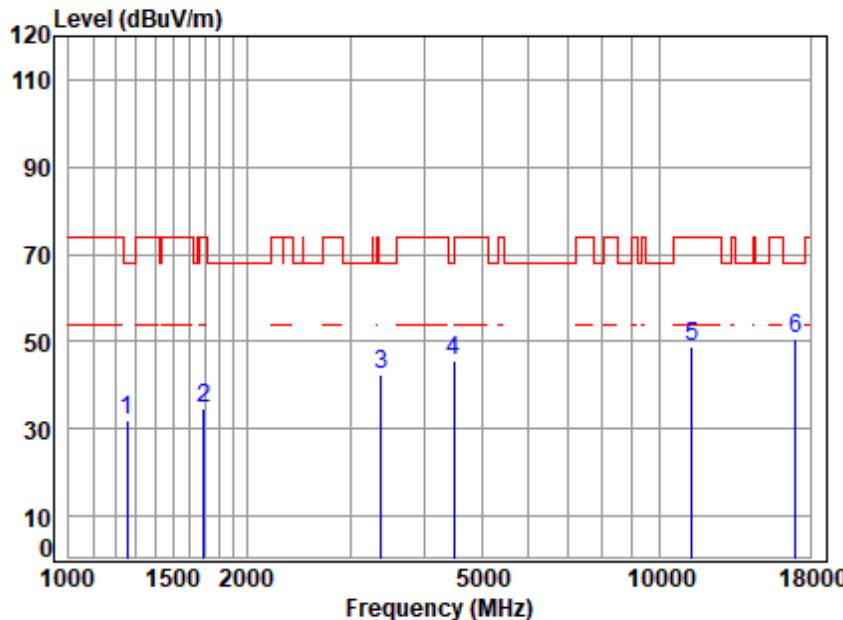
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5670 TX RSE
Note : 5G WIFI 11AC40
: 4TX

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	2.87	24.85	40.33	44.48	31.87	68.20	-36.33 peak
2 1629.825	3.37	26.38	40.59	45.67	34.83	68.20	-33.37 peak
3 3186.869	5.12	31.21	41.40	46.67	41.60	68.20	-26.60 peak
4 4443.453	6.71	33.50	42.51	46.57	44.27	68.20	-23.93 peak
5 11340.000	11.42	37.87	38.62	38.39	49.06	74.00	-24.94 peak
6 17010.000	14.17	42.61	40.53	34.34	50.59	68.20	-17.61 peak

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



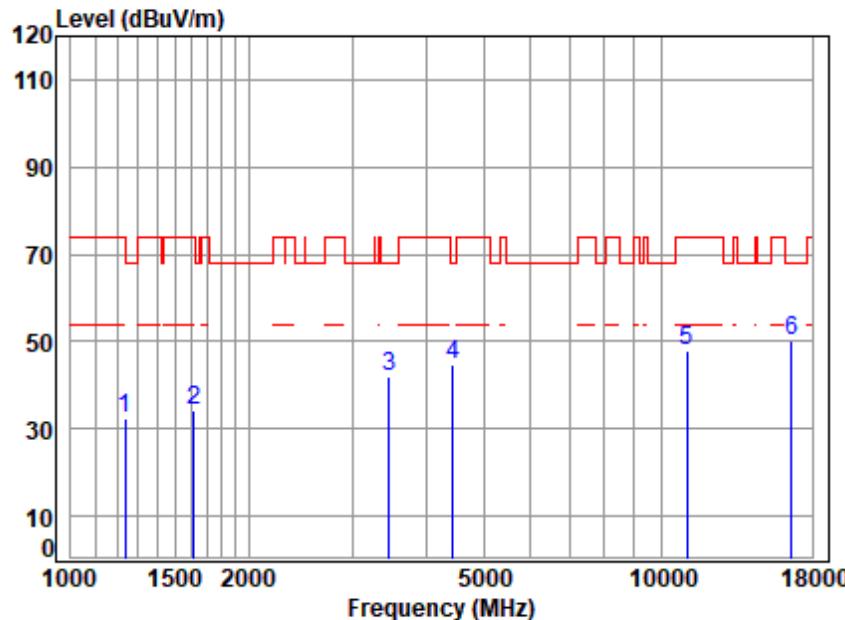
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5670 TX RSE
Note : 5G WIFI 11AC40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1256.512	2.87	24.84	40.33	44.71	32.09	68.20	-36.11 peak
2 1692.231	3.42	26.64	40.63	45.18	34.61	74.00	-39.39 peak
3 3386.297	5.38	31.53	41.60	47.29	42.60	68.20	-25.60 peak
4 4482.150	6.74	33.57	42.54	47.89	45.66	68.20	-22.54 peak
5 11340.000	11.42	37.87	38.62	38.37	49.04	74.00	-24.96 peak
6 17010.000	14.17	42.61	40.53	34.19	50.44	68.20	-17.76 peak

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5530 TX RSE
Note : 5G WIFI 11AC80
: 4TX

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	2.83	24.74	40.31	45.07	32.33	74.00	-41.67 peak
2	1615.754	3.36	26.32	40.58	45.11	34.21	74.00	-39.79 peak
3	3455.508	5.47	31.63	41.67	46.53	41.96	68.20	-26.24 peak
4	4430.628	6.70	33.48	42.50	47.10	44.78	68.20	-23.42 peak
5	11060.000	11.05	37.81	38.50	37.63	47.99	74.00	-26.01 peak
6	16590.000	14.70	42.27	40.54	33.73	50.16	68.20	-18.04 peak

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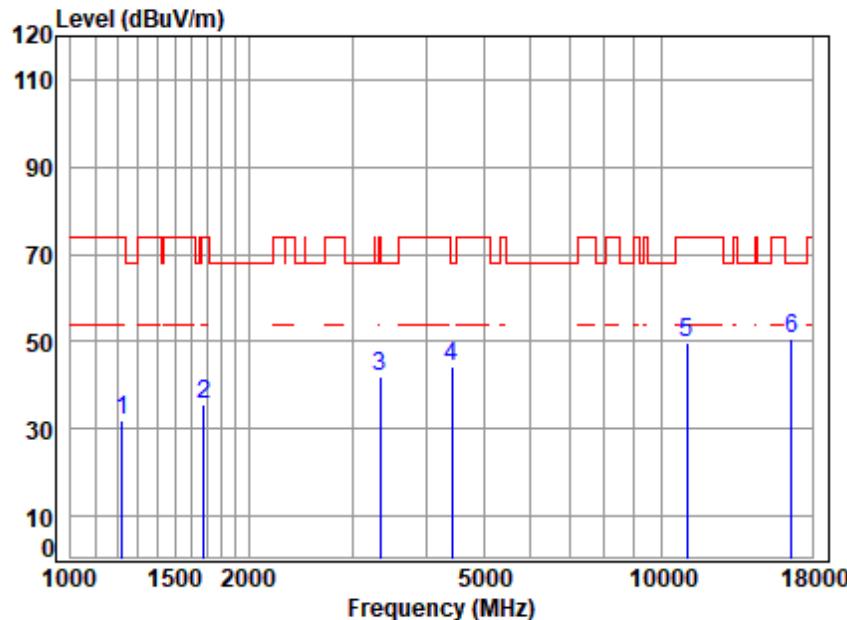
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



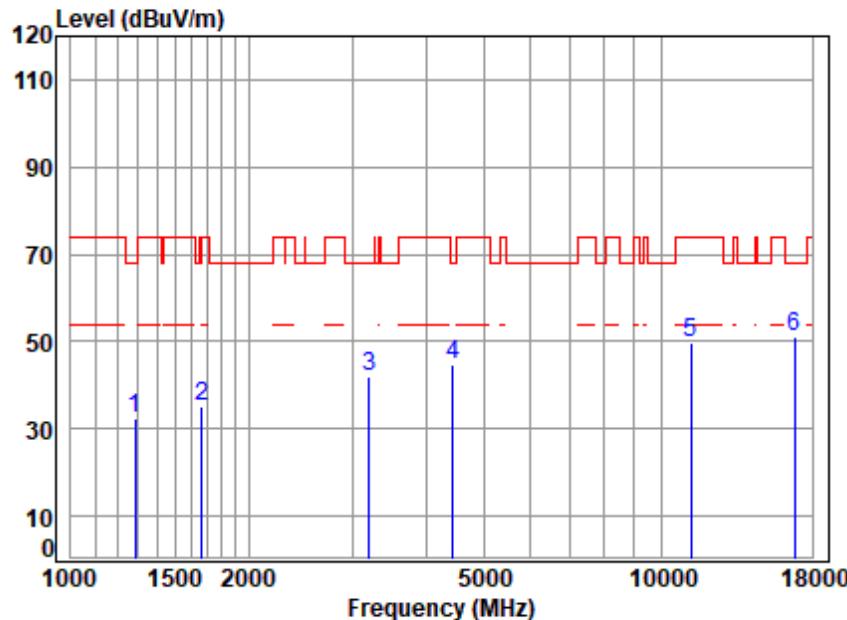
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5530 TX RSE
Note : 5G WIFI 11AC80
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1224.247	2.81	24.70	40.30	44.57	31.78	74.00	-42.22 peak
2 1677.621	3.41	26.58	40.62	46.06	35.43	74.00	-38.57 peak
3 3337.710	5.32	31.45	41.56	46.86	42.07	74.00	-31.93 peak
4 4417.841	6.68	33.46	42.49	46.65	44.30	68.20	-23.90 peak
5 11060.000	11.05	37.81	38.50	39.57	49.93	74.00	-24.07 peak
6 16590.000	14.70	42.27	40.54	34.41	50.84	68.20	-17.36 peak

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



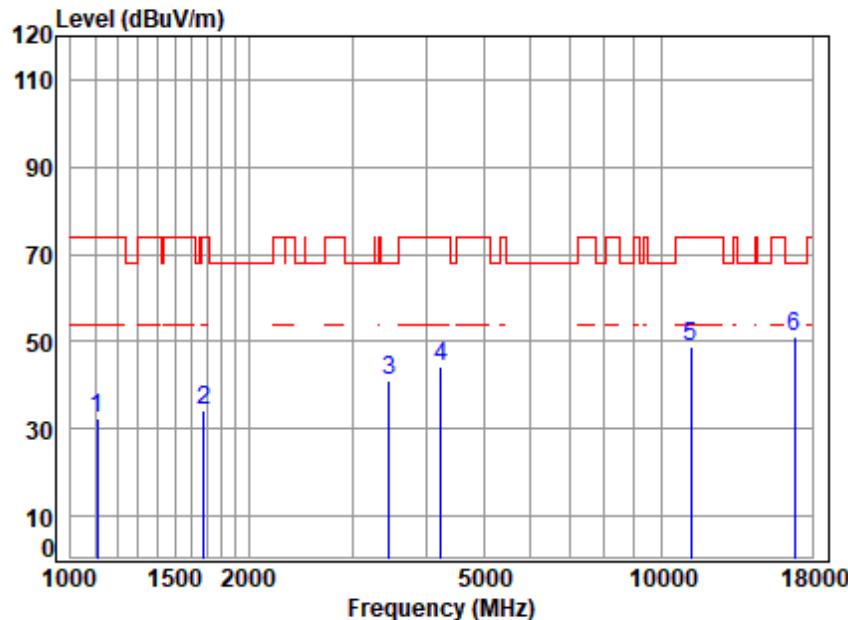
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5610 TX RSE
Note : 5G WIFI 11AC80
: 4TX

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	2.92	24.96	40.35	45.01	32.54	68.20	-35.66 peak
2 1667.951	3.40	26.54	40.61	45.75	35.08	74.00	-38.92 peak
3 3205.345	5.14	31.24	41.42	47.10	42.06	68.20	-26.14 peak
4 4430.628	6.70	33.48	42.50	46.98	44.66	68.20	-23.54 peak
5 11220.000	11.26	37.84	38.57	39.37	49.90	74.00	-24.10 peak
6 16830.000	14.39	42.47	40.54	34.87	51.19	68.20	-17.01 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5610 TX RSE
Note : 5G WIFI 11AC80
: 4TX

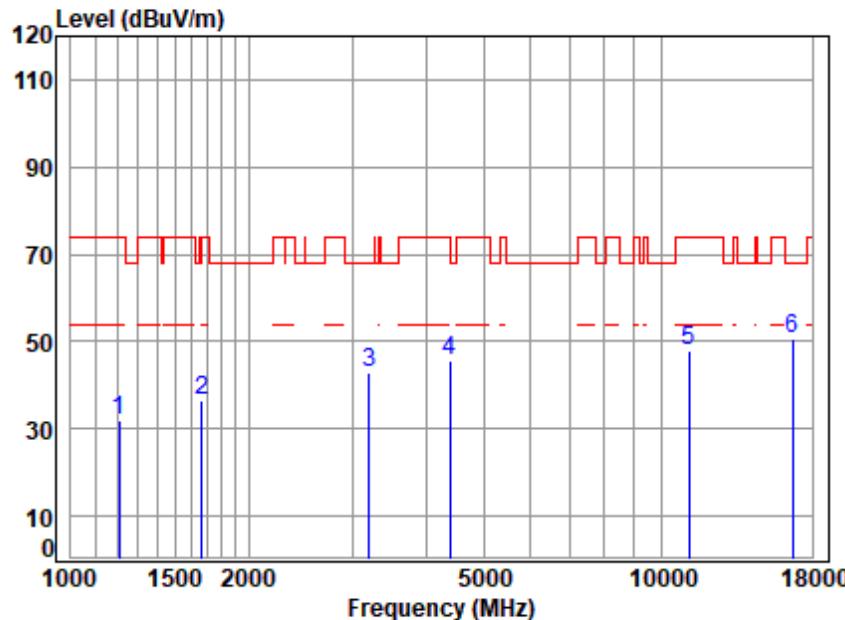
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1109.660	2.59	24.16	40.20	45.62	32.17	74.00	-41.83 peak
2 1677.621	3.41	26.58	40.62	44.95	34.32	74.00	-39.68 peak
3 3455.508	5.47	31.63	41.67	45.75	41.18	68.20	-27.02 peak
4 4230.396	6.51	33.13	42.34	47.05	44.35	74.00	-29.65 peak
5 11220.000	11.26	37.84	38.57	38.36	48.89	74.00	-25.11 peak
6 16830.000	14.39	42.47	40.54	34.59	50.91	68.20	-17.29 peak

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



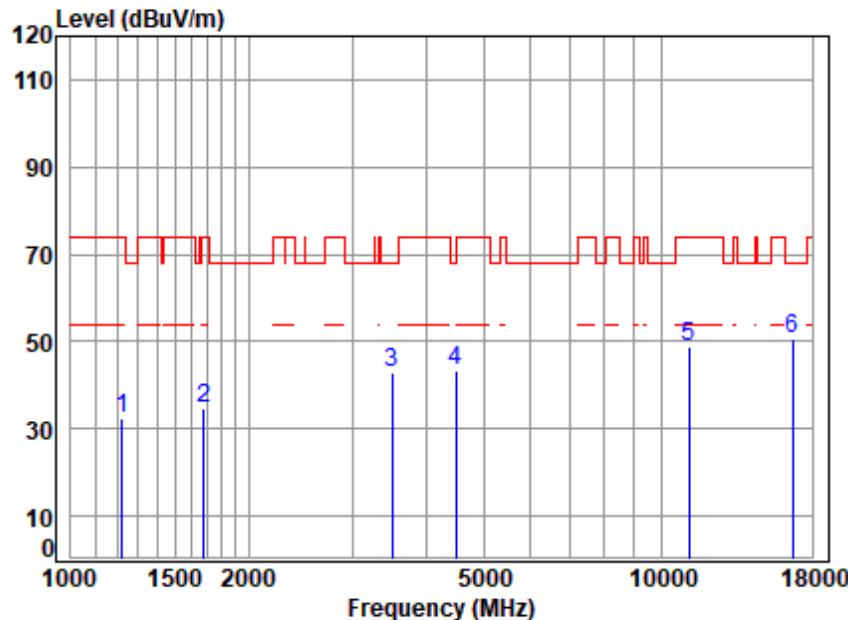
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5570 TX RSE
Note : 5G WIFI 11AC160
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1206.682	2.78	24.62	40.29	44.69	31.80	74.00	-42.20 peak
2 1667.951	3.40	26.54	40.61	47.28	36.61	74.00	-37.39 peak
3 3205.345	5.14	31.24	41.42	47.77	42.73	68.20	-25.47 peak
4 4379.699	6.65	33.39	42.46	48.11	45.69	74.00	-28.31 peak
5 11140.000	10.97	37.80	38.47	37.75	48.05	74.00	-25.95 peak
6 16710.000	14.82	42.20	40.55	34.24	50.71	68.20	-17.49 peak

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



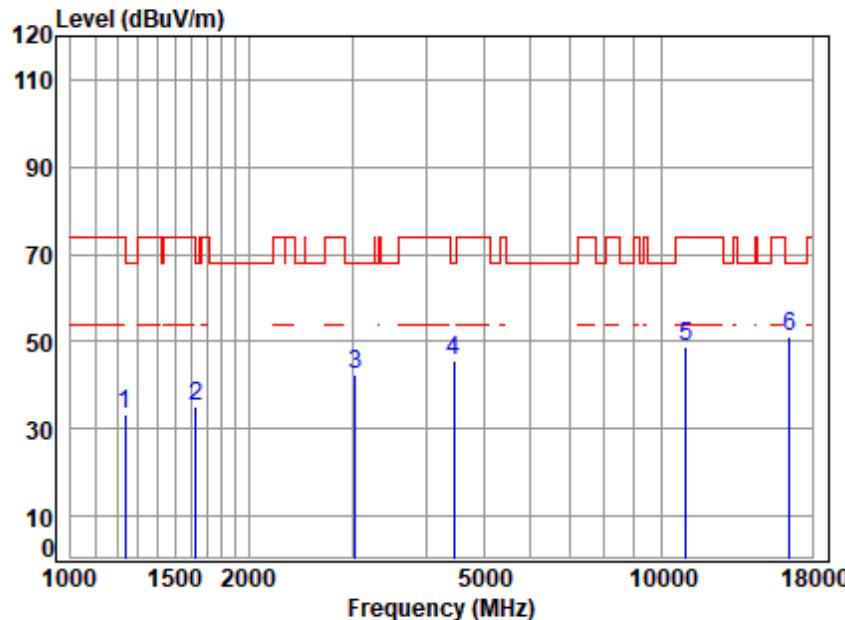
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5570 TX RSE
Note : 5G WIFI 11AC160
: 4TX

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 1224.247	2.81	24.70	40.30	45.23	32.44	74.00	-41.56 peak
2 1677.621	3.41	26.58	40.62	45.51	34.88	74.00	-39.12 peak
3 3495.691	5.51	31.69	41.71	47.39	42.88	68.20	-25.32 peak
4 4495.125	6.76	33.59	42.55	45.64	43.44	68.20	-24.76 peak
5 11140.000	10.97	37.80	38.47	38.58	48.88	74.00	-25.12 peak
6 16710.000	14.82	42.20	40.55	34.17	50.64	68.20	-17.56 peak

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



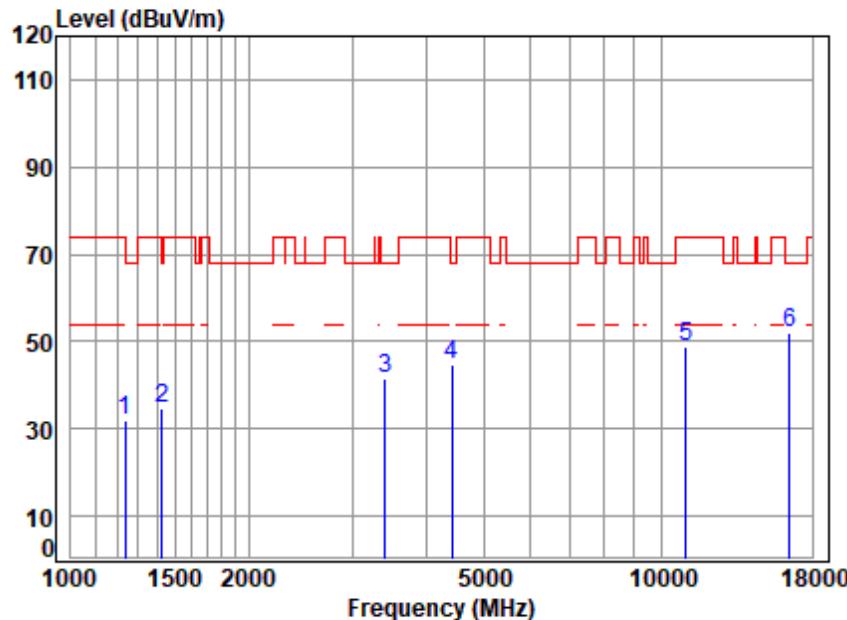
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5500 TX RSE
Note : 5G WIFI 11AX20
: 4TX

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	2.83	24.76	40.31	45.97	33.25	74.00	-40.75 peak
2 1629.825	3.37	26.38	40.59	45.96	35.12	68.20	-33.08 peak
3 3034.063	4.91	30.96	41.24	47.77	42.40	68.20	-25.80 peak
4 4456.315	6.72	33.53	42.52	48.12	45.85	68.20	-22.35 peak
5 11000.000	10.97	37.80	38.47	38.62	48.92	74.00	-25.08 peak
6 16500.000	14.82	42.20	40.55	34.62	51.09	68.20	-17.11 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5500 TX RSE
Note : 5G WIFI 11AX20
: 4TX

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	2.83	24.74	40.31	44.76	32.02	74.00	-41.98 peak
2 1426.916	3.15	25.53	40.46	46.32	34.54	74.00	-39.46 peak
3 3405.929	5.40	31.56	41.62	46.37	41.71	68.20	-26.49 peak
4 4417.841	6.68	33.46	42.49	47.21	44.86	68.20	-23.34 peak
5 11000.000	10.97	37.80	38.47	38.38	48.68	74.00	-25.32 peak
6 16500.000	14.82	42.20	40.55	35.60	52.07	68.20	-16.13 peak

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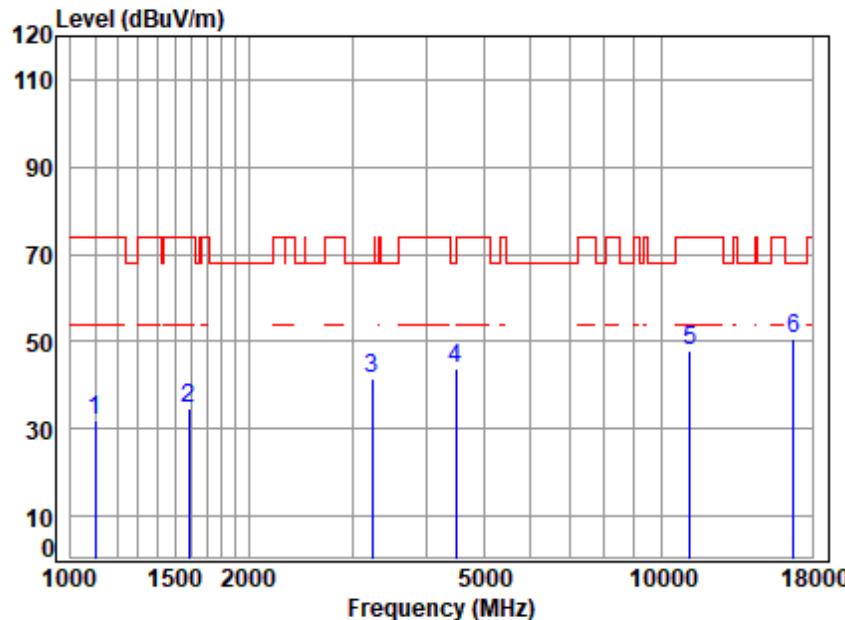
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:middle



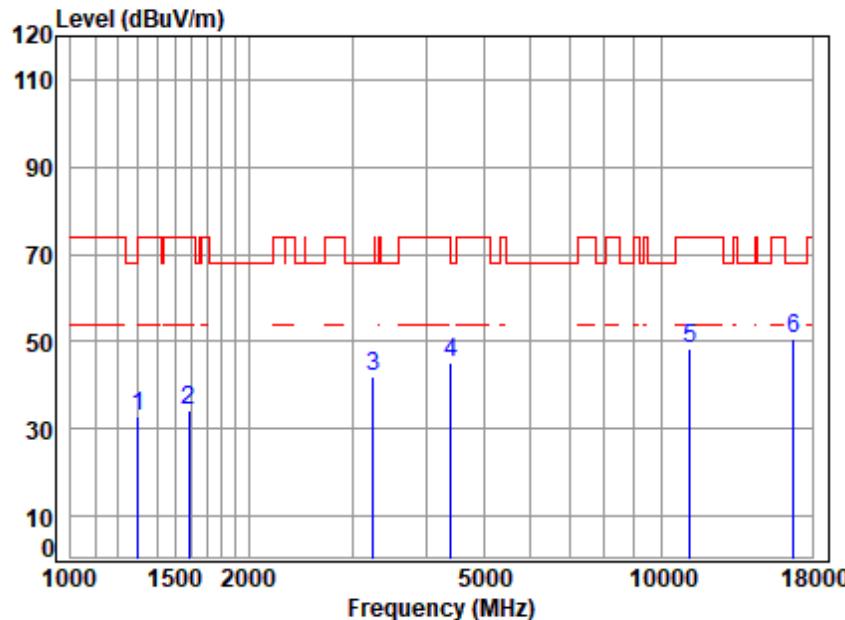
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5580 TX RSE
Note : 5G WIFI 11AX20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1100.079	2.57	24.12	40.20	45.27	31.76	74.00	-42.24 peak
2	1583.392	3.33	26.18	40.56	45.82	34.77	74.00	-39.23 peak
3	3233.260	5.18	31.29	41.45	46.49	41.51	68.20	-26.69 peak
4	4495.125	6.76	33.59	42.55	46.16	43.96	68.20	-24.24 peak
5	11160.000	11.18	37.83	38.54	37.59	48.06	74.00	-25.94 peak
6	16740.000	14.51	42.39	40.54	34.43	50.79	68.20	-17.41 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5580 TX RSE
Note : 5G WIFI 11AX20
: 4TX

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	2.94	25.03	40.36	45.28	32.89	74.00	-41.11 peak
2 1587.975	3.34	26.20	40.56	45.14	34.12	74.00	-39.88 peak
3 3252.005	5.21	31.32	41.47	46.95	42.01	68.20	-26.19 peak
4 4405.090	6.67	33.44	42.48	47.59	45.22	68.20	-22.98 peak
5 11160.000	11.18	37.83	38.54	37.88	48.35	74.00	-25.65 peak
6 16740.000	14.51	42.39	40.54	34.09	50.45	68.20	-17.75 peak

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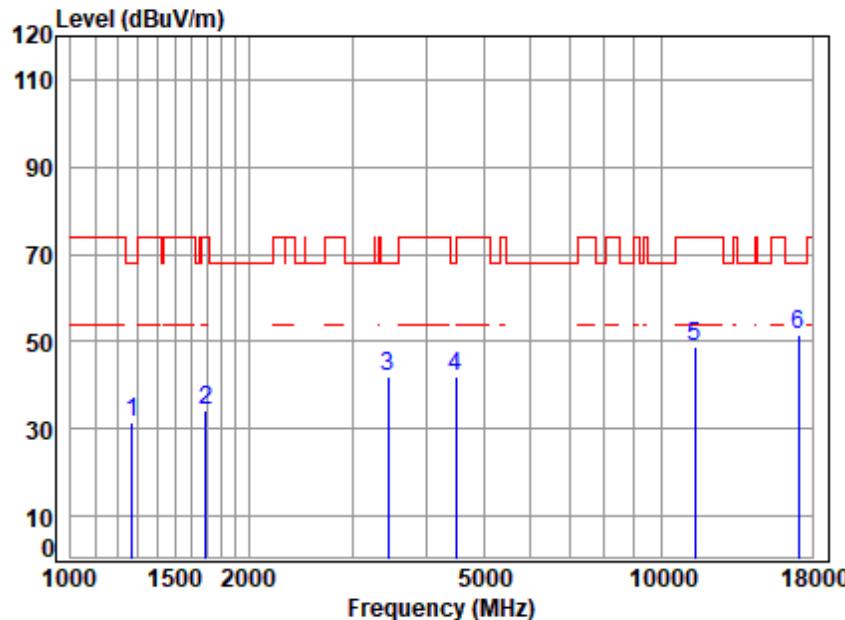
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:High



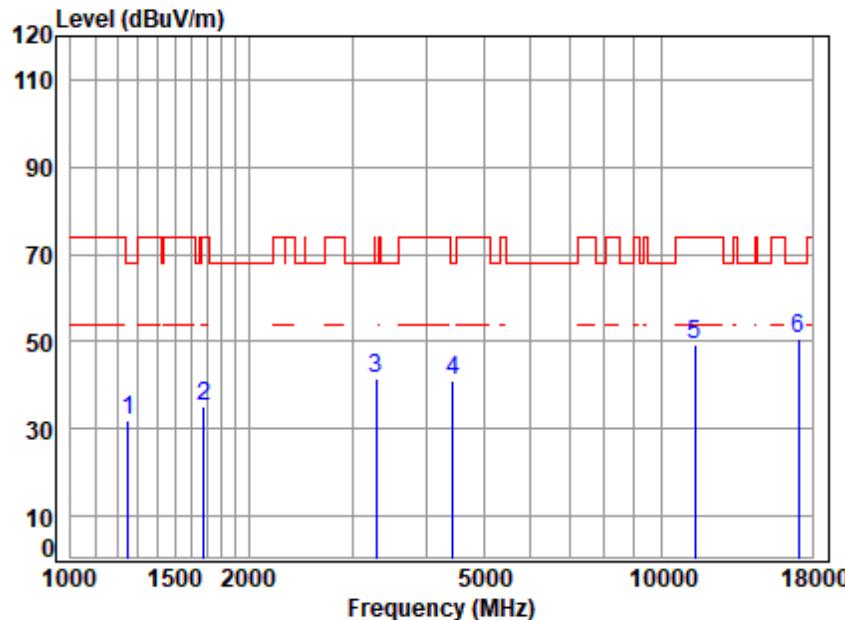
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5700 TX RSE
Note : 5G WIFI 11AX20
: 4TX

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1	1271.123	2.89	24.90	40.34	44.23	31.68	68.20 -36.52 peak
2	1692.231	3.42	26.64	40.63	44.99	34.42	74.00 -39.58 peak
3	3445.535	5.45	31.62	41.66	46.61	42.02	68.20 -26.18 peak
4	4495.125	6.76	33.59	42.55	44.10	41.90	68.20 -26.30 peak
5	11400.000	11.50	37.88	38.65	38.10	48.83	74.00 -25.17 peak
6	17100.000	14.14	42.66	40.53	35.13	51.40	68.20 -16.80 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5700 TX RSE
Note : 5G WIFI 11AX20
: 4TX

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	2.85	24.81	40.32	44.69	32.03	68.20	-36.17 peak
2 1677.621	3.41	26.58	40.62	45.95	35.32	74.00	-38.68 peak
3 3289.821	5.25	31.38	41.51	46.60	41.72	68.20	-26.48 peak
4 4430.628	6.70	33.48	42.50	43.59	41.27	68.20	-26.93 peak
5 11400.000	11.50	37.88	38.65	38.33	49.06	74.00	-24.94 peak
6 17100.000	14.14	42.66	40.53	34.55	50.82	68.20	-17.38 peak

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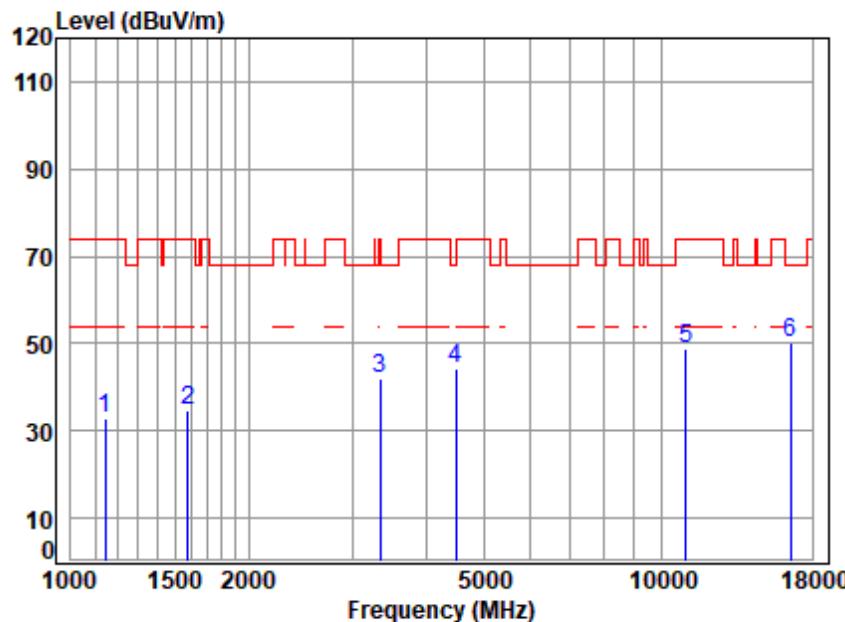
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Shenzhen Branch Inspection & Testing Services Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



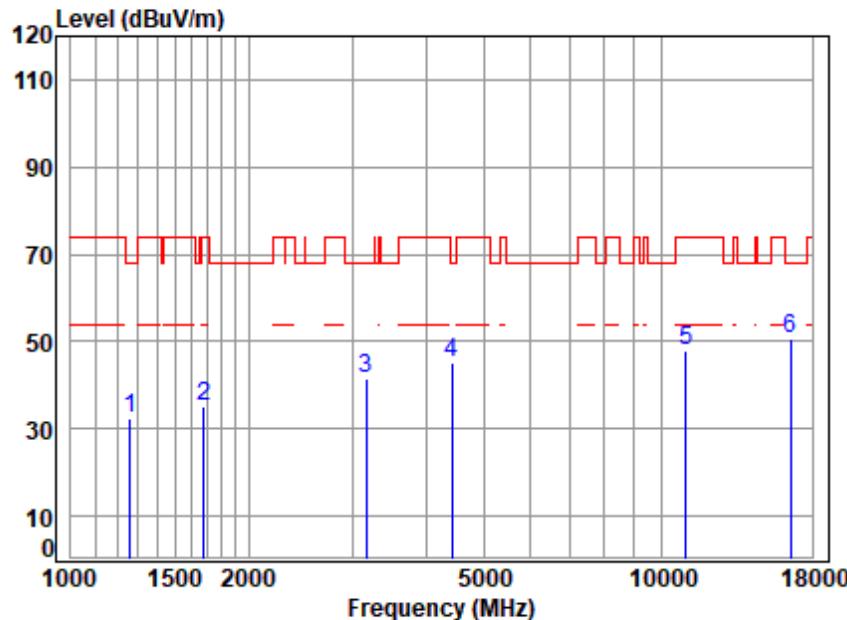
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5510 TX RSE
Note : 5G WIFI 11AX40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1145.507	2.66	24.34	40.24	46.23	32.99	74.00	-41.01 peak
2	1578.822	3.33	26.16	40.56	45.82	34.75	74.00	-39.25 peak
3	3347.371	5.33	31.47	41.56	46.77	42.01	74.00	-31.99 peak
4	4482.150	6.74	33.57	42.54	46.53	44.30	68.20	-23.90 peak
5	11020.000	10.97	37.80	38.47	38.36	48.66	74.00	-25.34 peak
6	16530.000	14.82	42.20	40.55	33.52	49.99	68.20	-18.21 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5510 TX RSE
Note : 5G WIFI 11AX40
: 4TX

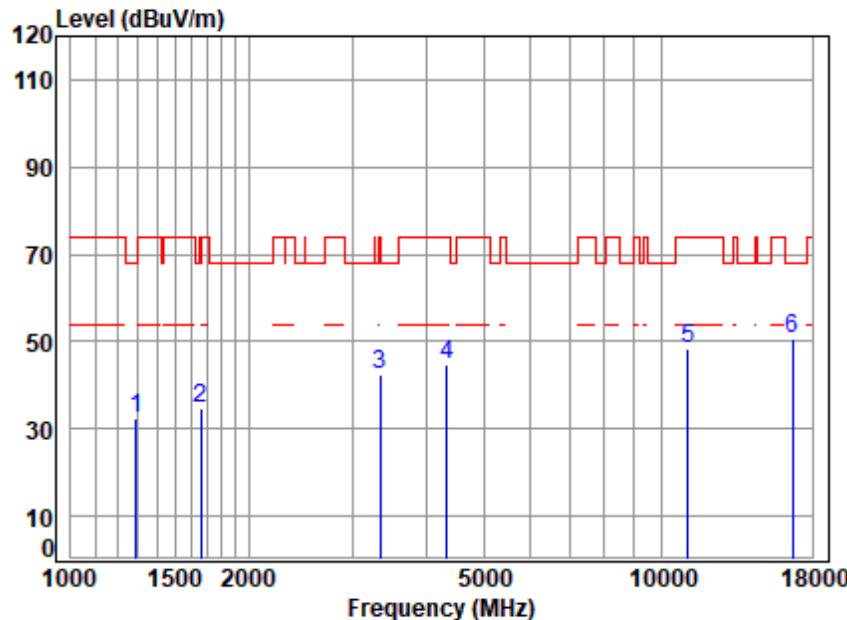
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1260.149	2.87	24.85	40.33	44.86	32.25	68.20	-35.95 peak
2 1682.477	3.42	26.60	40.62	45.75	35.15	74.00	-38.85 peak
3 3168.500	5.09	31.18	41.38	46.79	41.68	68.20	-26.52 peak
4 4417.841	6.68	33.46	42.49	47.34	44.99	68.20	-23.21 peak
5 11020.000	10.97	37.80	38.47	37.73	48.03	74.00	-25.97 peak
6 16530.000	14.82	42.20	40.55	34.16	50.63	68.20	-17.57 peak

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:middle



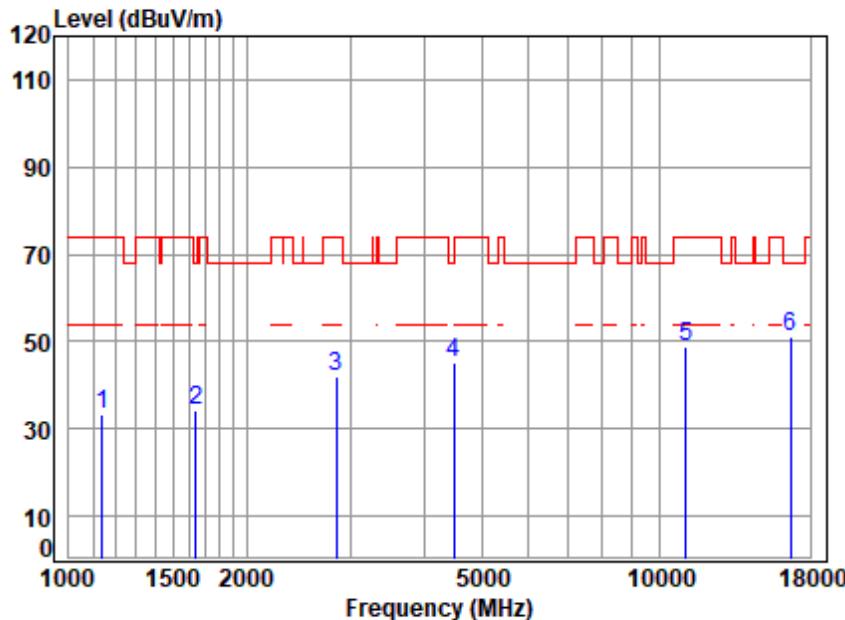
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5550 TX RSE
Note : 5G WIFI 11AX40
: 4TX

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1 1289.627	2.92	24.98	40.35	44.96	32.51	68.20	-35.69	peak
2 1658.337	3.40	26.50	40.61	45.40	34.69	68.20	-33.51	peak
3 3337.710	5.32	31.45	41.56	47.36	42.57	74.00	-31.43	peak
4 4341.886	6.61	33.33	42.43	47.11	44.62	74.00	-29.38	peak
5 11100.000	11.18	37.83	38.54	37.68	48.15	74.00	-25.85	peak
6 16650.000	14.51	42.39	40.54	34.09	50.45	68.20	-17.75	peak

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:middle



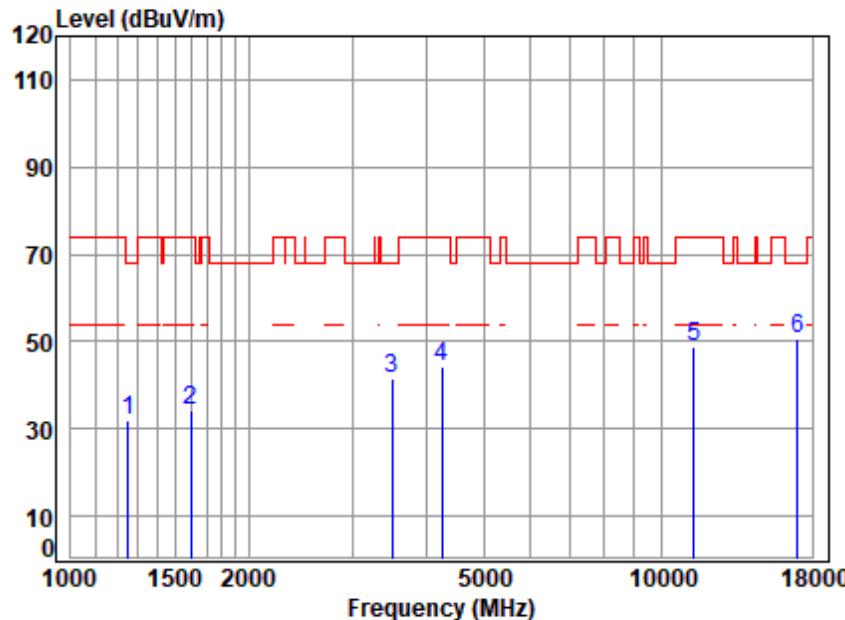
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5550 TX RSE
Note : 5G WIFI 11AX40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1138.904	2.65	24.31	40.23	46.35	33.08	74.00	-40.92 peak
2 1644.019	3.38	26.44	40.60	45.13	34.35	68.20	-33.85 peak
3 2838.921	4.76	30.23	41.14	48.08	41.93	74.00	-32.07 peak
4 4482.150	6.74	33.57	42.54	47.48	45.25	68.20	-22.95 peak
5 11100.000	11.18	37.83	38.54	38.24	48.71	74.00	-25.29 peak
6 16650.000	14.51	42.39	40.54	34.61	50.97	68.20	-17.23 peak

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5670 TX RSE
Note : 5G WIFI 11AX40
: 4TX

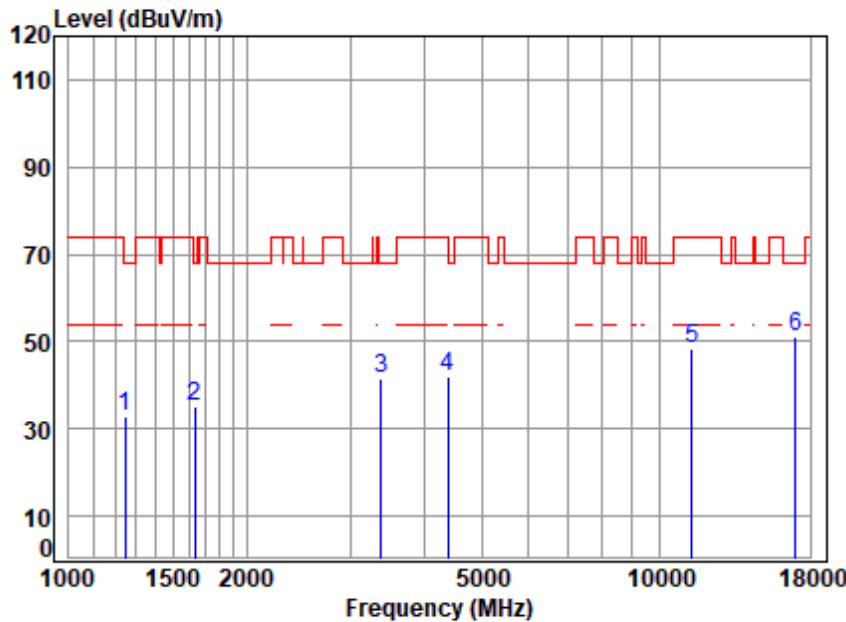
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1249.269	2.85	24.81	40.32	44.73	32.07	68.20	-36.13 peak
2 1597.181	3.35	26.24	40.57	45.13	34.15	74.00	-39.85 peak
3 3495.691	5.51	31.69	41.71	46.25	41.74	68.20	-26.46 peak
4 4242.641	6.52	33.15	42.35	47.02	44.34	74.00	-29.66 peak
5 11340.000	11.50	37.88	38.65	38.22	48.95	74.00	-25.05 peak
6 17010.000	14.14	42.66	40.53	34.17	50.44	68.20	-17.76 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5670 TX RSE
Note : 5G WIFI 11AX40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1245.663	2.85	24.79	40.32	45.65	32.97	68.20	-35.23 peak
2 1634.543	3.38	26.40	40.59	45.95	35.14	68.20	-33.06 peak
3 3386.297	5.38	31.53	41.60	46.39	41.70	68.20	-26.50 peak
4 4379.699	6.65	33.39	42.46	44.38	41.96	74.00	-32.04 peak
5 11340.000	11.50	37.88	38.65	37.64	48.37	74.00	-25.63 peak
6 17010.000	14.14	42.66	40.53	34.94	51.21	68.20	-16.99 peak

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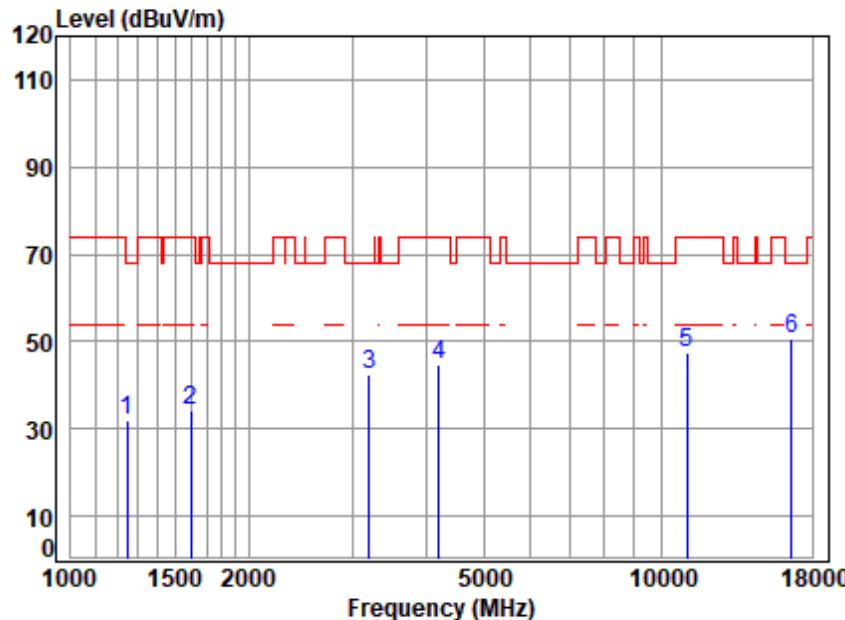
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:80MHz; Channel:Low



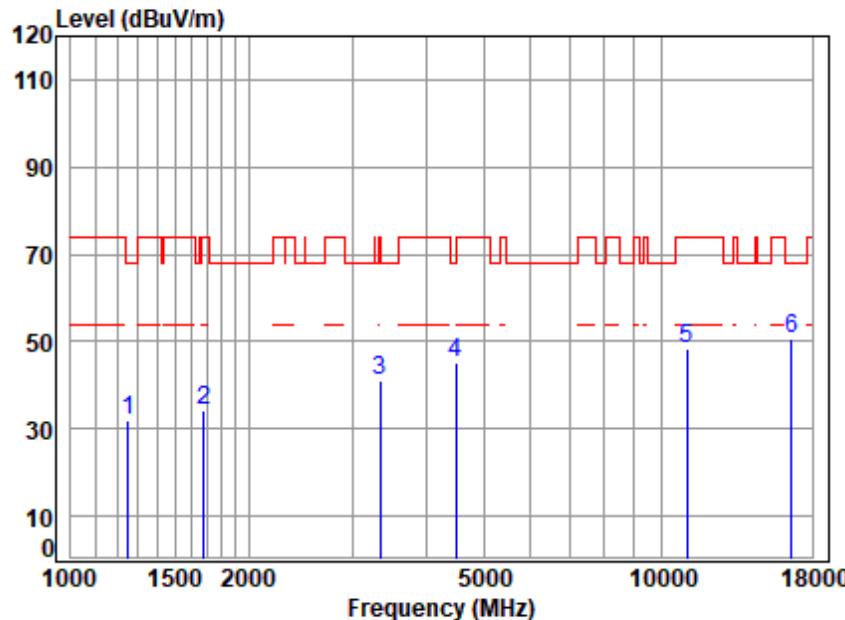
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5530 TX RSE
Note : 5G WIFI 11AX80
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1245.663	2.85	24.79	40.32	44.53	31.85	68.20	-36.35 peak
2	1597.181	3.35	26.24	40.57	45.14	34.16	74.00	-39.84 peak
3	3205.345	5.14	31.24	41.42	47.64	42.60	68.20	-25.60 peak
4	4193.872	6.47	33.06	42.31	47.71	44.93	74.00	-29.07 peak
5	11060.000	11.00	37.80	38.48	37.34	47.66	74.00	-26.34 peak
6	16590.000	14.78	42.22	40.55	34.35	50.80	68.20	-17.40 peak

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ax; Bandwidth:80MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5530 TX RSE
Note : 5G WIFI 11AX80
: 4TX

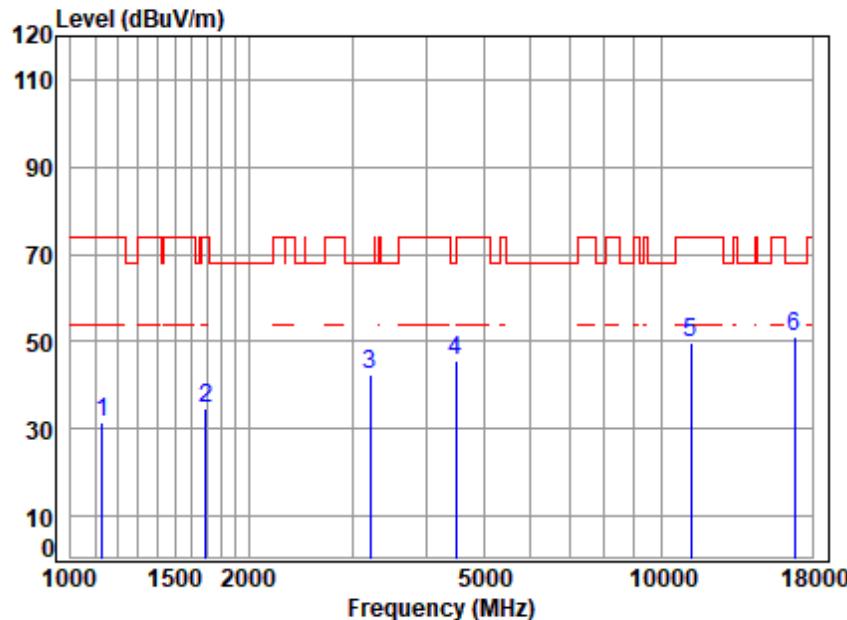
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1252.885	2.86	24.82	40.33	44.51	31.86	68.20	-36.34 peak
2 1677.621	3.41	26.58	40.62	44.76	34.13	74.00	-39.87 peak
3 3347.371	5.33	31.47	41.56	45.86	41.10	74.00	-32.90 peak
4 4482.150	6.74	33.57	42.54	47.62	45.39	68.20	-22.81 peak
5 11060.000	11.00	37.80	38.48	38.03	48.35	74.00	-25.65 peak
6 16590.000	14.78	42.22	40.55	34.21	50.66	68.20	-17.54 peak

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:80MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5610 TX RSE
Note : 5G WIFI 11AX80
: 4TX

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	2.64	24.27	40.22	44.86	31.55	74.00	-42.45 peak
2 1692.231	3.42	26.64	40.63	45.21	34.64	74.00	-39.36 peak
3 3214.623	5.16	31.26	41.43	47.32	42.31	68.20	-25.89 peak
4 4495.125	6.76	33.59	42.55	47.77	45.57	68.20	-22.63 peak
5 11220.000	10.97	37.80	38.47	39.36	49.66	74.00	-24.34 peak
6 16830.000	14.82	42.20	40.55	34.47	50.94	68.20	-17.26 peak

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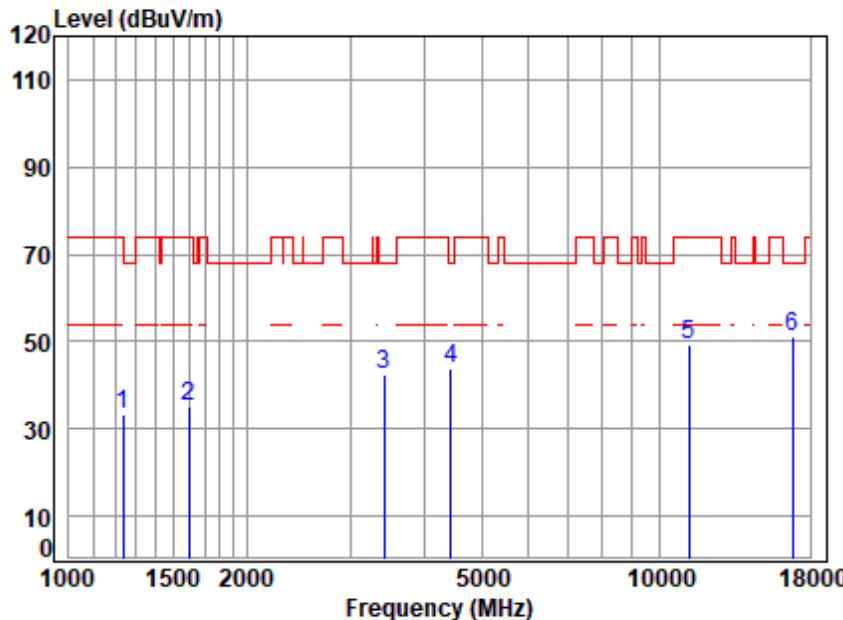
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Shenzhen Branch Inspection & Testing Services Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 03; Polarity: Vertical; Modulation:802.11ax; Bandwidth:80MHz; Channel:High



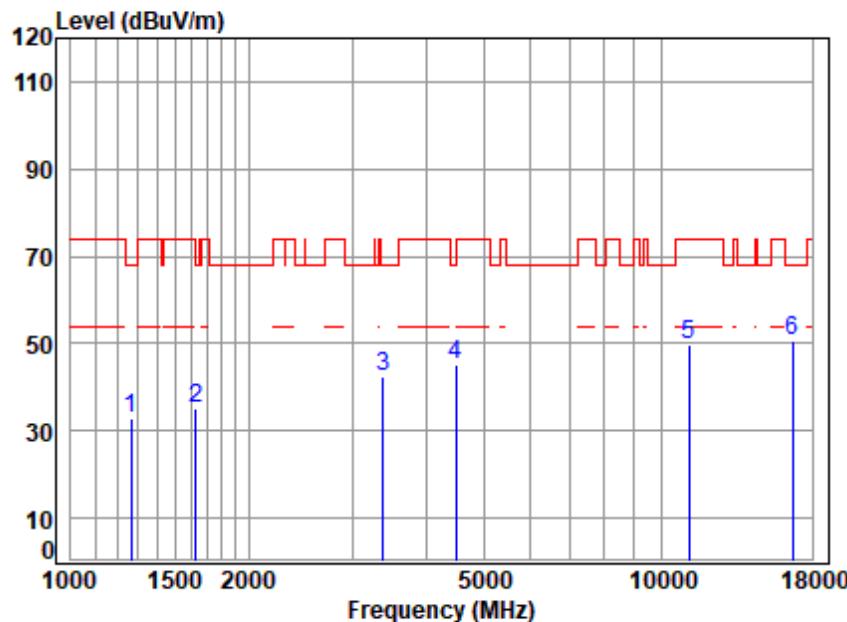
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5610 TX RSE
Note : 5G WIFI 11AX80
: 4TX

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	2.83	24.74	40.31	45.88	33.14	74.00	-40.86 peak
2 1597.181	3.35	26.24	40.57	45.93	34.95	74.00	-39.05 peak
3 3425.675	5.43	31.59	41.64	46.90	42.28	68.20	-25.92 peak
4 4443.453	6.71	33.50	42.51	46.32	44.02	68.20	-24.18 peak
5 11220.000	10.97	37.80	38.47	38.94	49.24	74.00	-24.76 peak
6 16830.000	14.82	42.20	40.55	34.60	51.07	68.20	-17.13 peak

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:160MHz



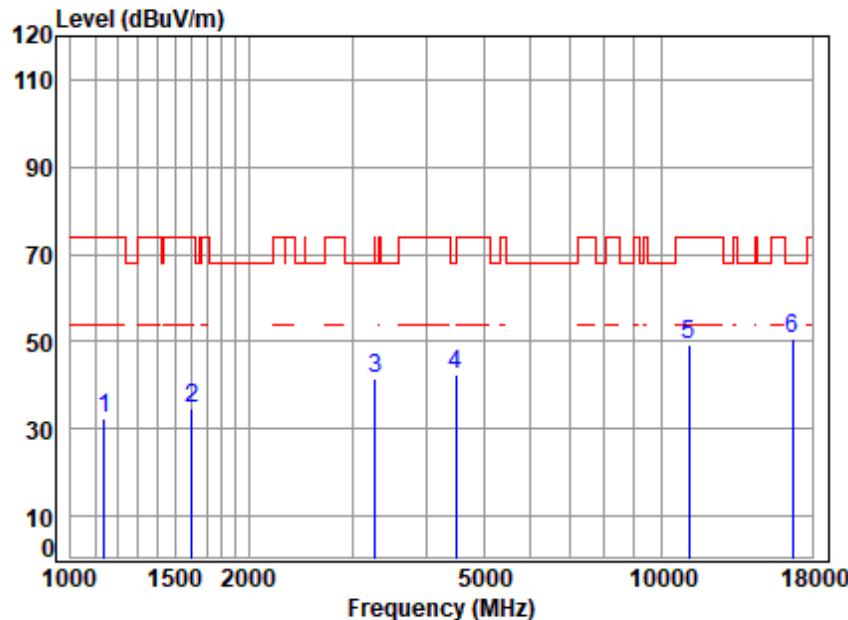
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5570 TX RSE
Note : 5G WIFI 11AX160
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1267.454	2.89	24.89	40.34	45.38	32.82	68.20	-35.38 peak
2 1629.825	3.37	26.38	40.59	45.83	34.99	68.20	-33.21 peak
3 3376.523	5.37	31.51	41.59	47.18	42.47	68.20	-25.73 peak
4 4495.125	6.76	33.59	42.55	47.42	45.22	68.20	-22.98 peak
5 11140.000	11.18	37.83	38.54	39.47	49.94	74.00	-24.06 peak
6 16710.000	14.51	42.39	40.54	34.30	50.66	68.20	-17.54 peak

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ax; Bandwidth:160MHz



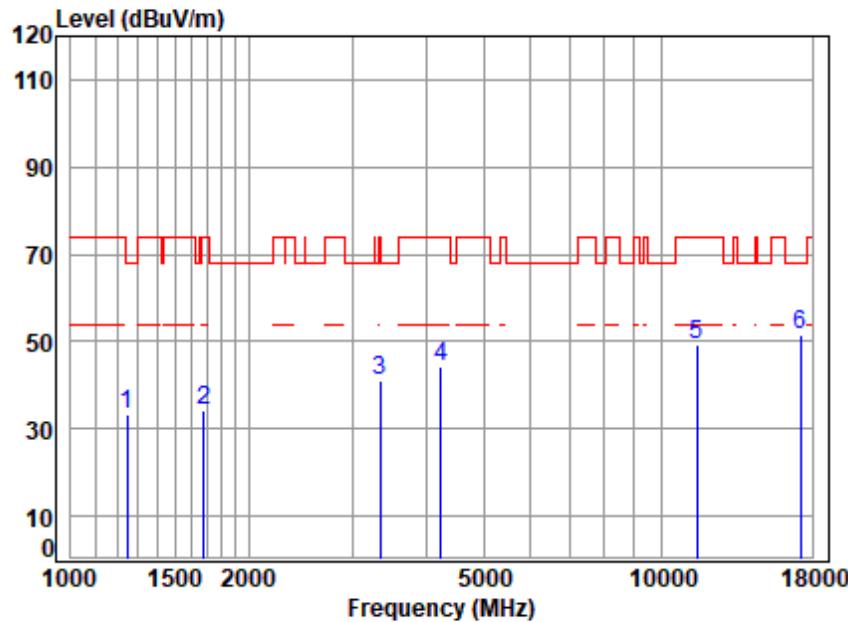
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5570 TX RSE
Note : 5G WIFI 11AX160
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1138.904	2.65	24.31	40.23	45.56	32.29	74.00	-41.71 peak
2 1601.804	3.35	26.26	40.57	45.78	34.82	74.00	-39.18 peak
3 3280.326	5.24	31.36	41.50	46.40	41.50	68.20	-26.70 peak
4 4495.125	6.76	33.59	42.55	44.73	42.53	68.20	-25.67 peak
5 11140.000	11.18	37.83	38.54	38.63	49.10	74.00	-24.90 peak
6 16710.000	14.51	42.39	40.54	34.30	50.66	68.20	-17.54 peak

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



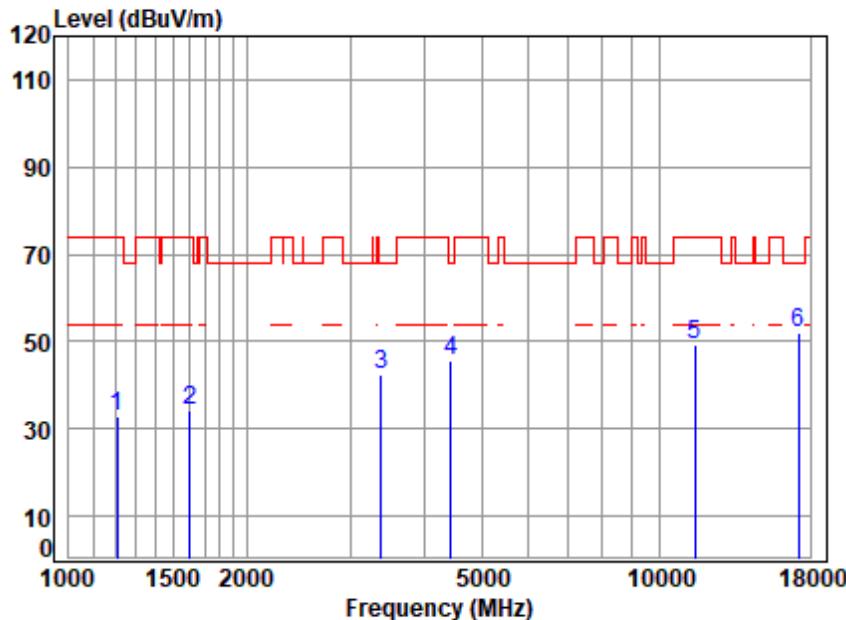
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5745 TX RSE
Note : 5G WIFI 11A
: 1TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1245.663	2.85	24.79	40.32	45.79	33.11	68.20	-35.09 peak
2 1682.477	3.42	26.60	40.62	44.91	34.31	74.00	-39.69 peak
3 3347.371	5.33	31.47	41.56	45.69	40.93	74.00	-33.07 peak
4 4230.396	6.51	33.13	42.34	46.83	44.13	74.00	-29.87 peak
5 11490.000	11.62	37.90	38.69	38.66	49.49	74.00	-24.51 peak
6 17235.000	14.09	42.74	40.52	35.20	51.51	68.20	-16.69 peak

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



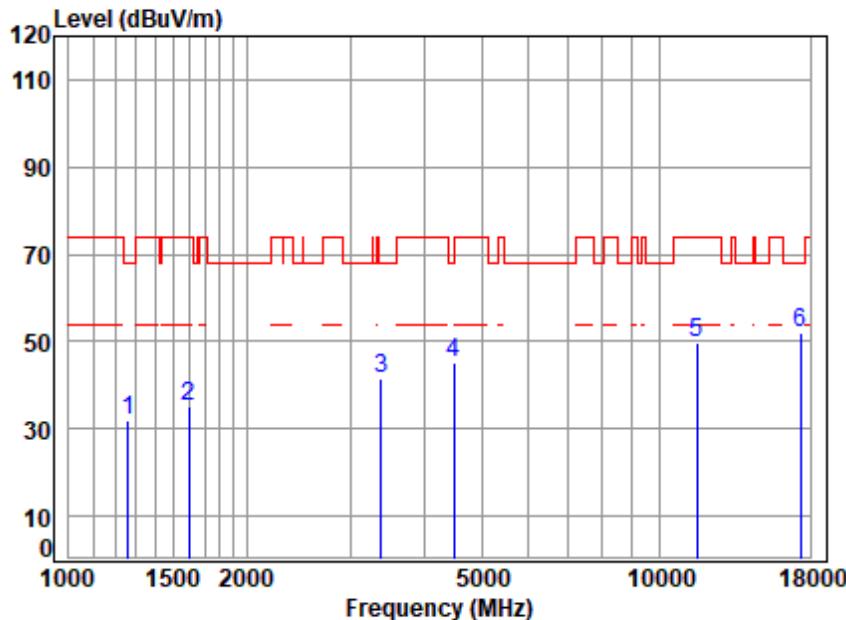
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5745 TX RSE
Note : 5G WIFI 11A
: 1TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1206.682	2.78	24.62	40.29	45.54	32.65	74.00	-41.35 peak
2 1606.441	3.35	26.28	40.57	45.34	34.40	74.00	-39.60 peak
3 3376.523	5.37	31.51	41.59	46.97	42.26	68.20	-25.94 peak
4 4443.453	6.71	33.50	42.51	48.10	45.80	68.20	-22.40 peak
5 11490.000	11.62	37.90	38.69	38.58	49.41	74.00	-24.59 peak
6 17235.000	14.09	42.74	40.52	35.58	51.89	68.20	-16.31 peak

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



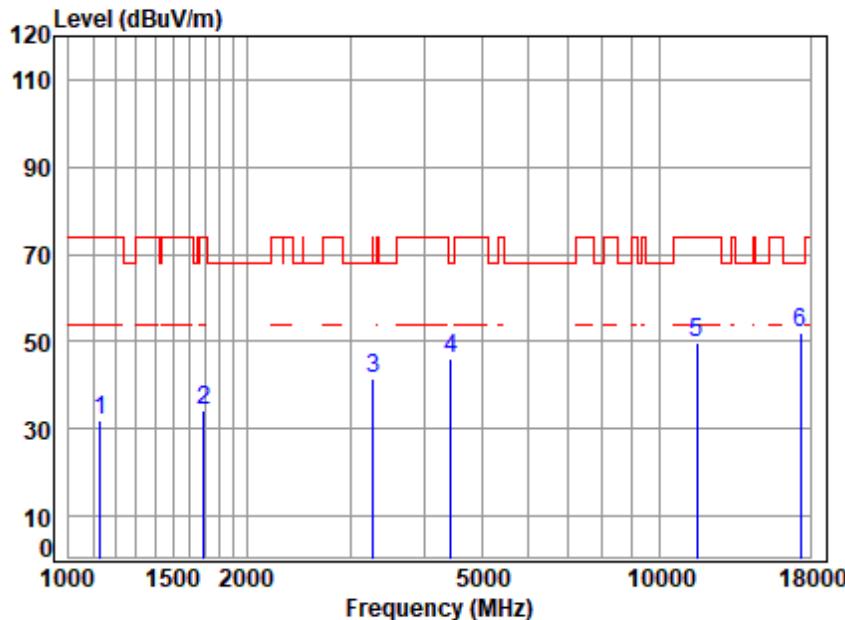
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5785 TX RSE
Note : 5G WIFI 11A
: 1TX

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	2.87	24.85	40.33	44.60	31.99	68.20	-36.21 peak
2 1597.181	3.35	26.24	40.57	45.97	34.99	74.00	-39.01 peak
3 3386.297	5.38	31.53	41.60	46.22	41.53	68.20	-26.67 peak
4 4495.125	6.76	33.59	42.55	47.59	45.39	68.20	-22.81 peak
5 11570.000	11.72	37.87	38.72	38.82	49.69	74.00	-24.31 peak
6 17355.000	14.06	42.81	40.52	35.77	52.12	68.20	-16.08 peak

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



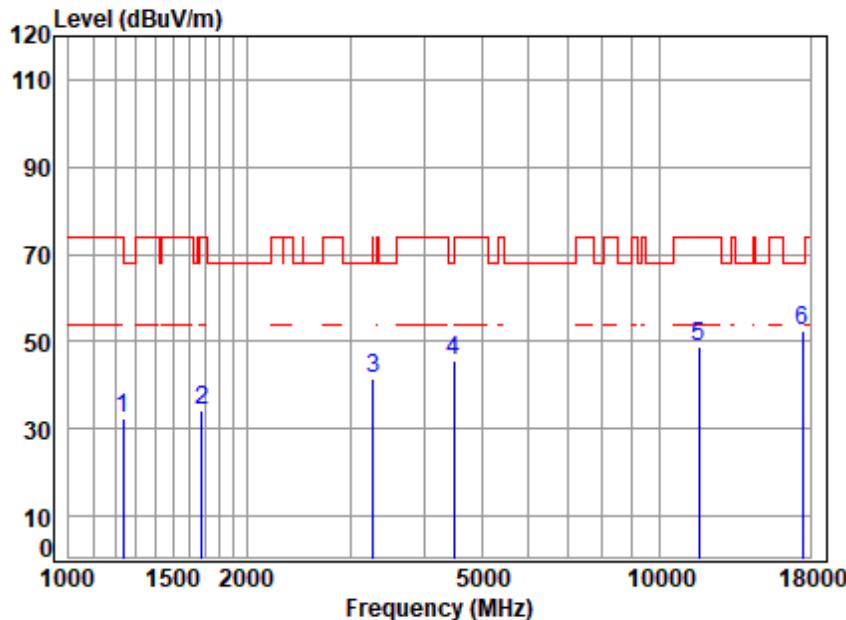
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5785 TX RSE
Note : 5G WIFI 11A
: 1TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1129.072	2.63	24.26	40.22	45.34	32.01	74.00	-41.99 peak
2 1692.231	3.42	26.64	40.63	44.60	34.03	74.00	-39.97 peak
3 3280.326	5.24	31.36	41.50	46.30	41.40	68.20	-26.80 peak
4 4443.453	6.71	33.50	42.51	48.26	45.96	68.20	-22.24 peak
5 11570.000	11.72	37.87	38.72	38.69	49.56	74.00	-24.44 peak
6 17355.000	14.06	42.81	40.52	35.78	52.13	68.20	-16.07 peak

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



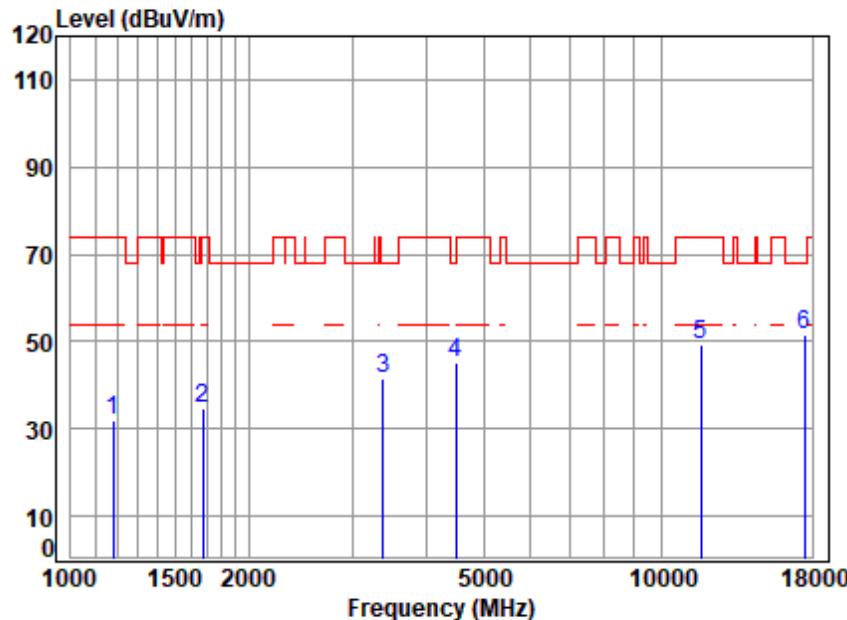
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5825 TX RSE
Note : 5G WIFI 11A
: 1TX

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	2.83	24.76	40.31	45.29	32.57	74.00	-41.43 peak
2 1677.621	3.41	26.58	40.62	44.65	34.02	74.00	-39.98 peak
3 3280.326	5.24	31.36	41.50	46.50	41.60	68.20	-26.60 peak
4 4482.150	6.74	33.57	42.54	47.86	45.63	68.20	-22.57 peak
5 11650.000	11.82	37.84	38.75	37.78	48.69	74.00	-25.31 peak
6 17475.000	14.02	42.89	40.52	35.92	52.31	68.20	-15.89 peak

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



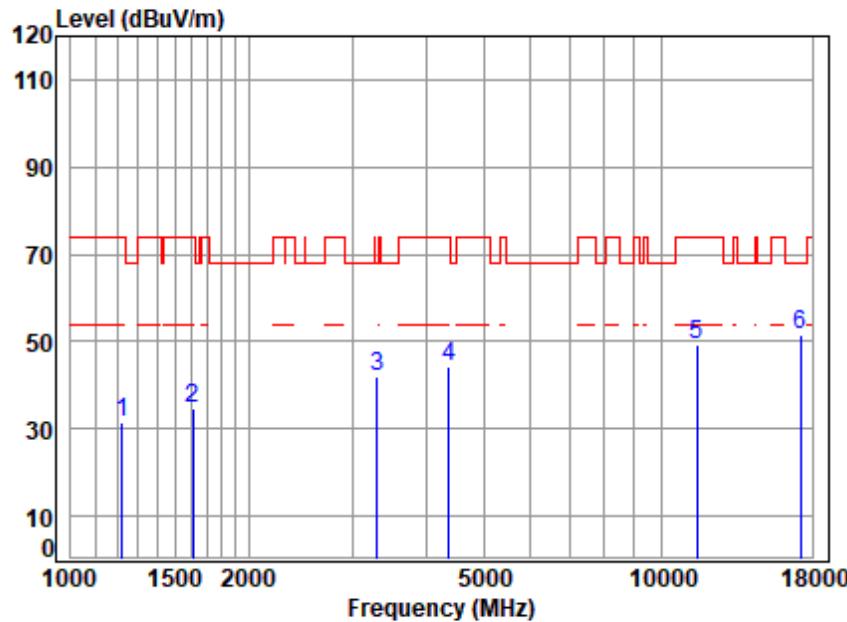
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5825 TX RSE
Note : 5G WIFI 11A
: 1TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1179.100	2.73	24.49	40.26	44.86	31.82	74.00	-42.18 peak
2 1672.779	3.41	26.56	40.62	45.12	34.47	74.00	-39.53 peak
3 3386.297	5.38	31.53	41.60	46.06	41.37	68.20	-26.83 peak
4 4495.125	6.76	33.59	42.55	47.47	45.27	68.20	-22.93 peak
5 11650.000	11.82	37.84	38.75	38.37	49.28	74.00	-24.72 peak
6 17475.000	14.02	42.89	40.52	34.96	51.35	68.20	-16.85 peak

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5745 TX RSE
Note : 5G WIFI 11N20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1224.247	2.81	24.70	40.30	44.46	31.67	74.00	-42.33 peak
2 1611.091	3.36	26.30	40.58	45.46	34.54	74.00	-39.46 peak
3 3308.894	5.28	31.41	41.53	46.78	41.94	68.20	-26.26 peak
4 4367.058	6.64	33.37	42.45	46.81	44.37	74.00	-29.63 peak
5 11490.000	11.62	37.90	38.69	38.32	49.15	74.00	-24.85 peak
6 17235.000	14.09	42.74	40.52	35.23	51.54	68.20	-16.66 peak

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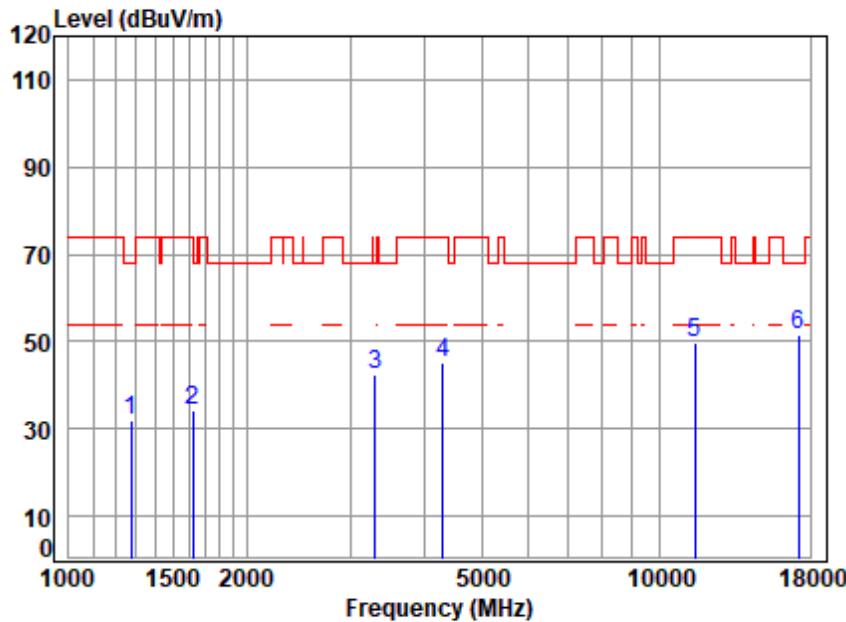
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



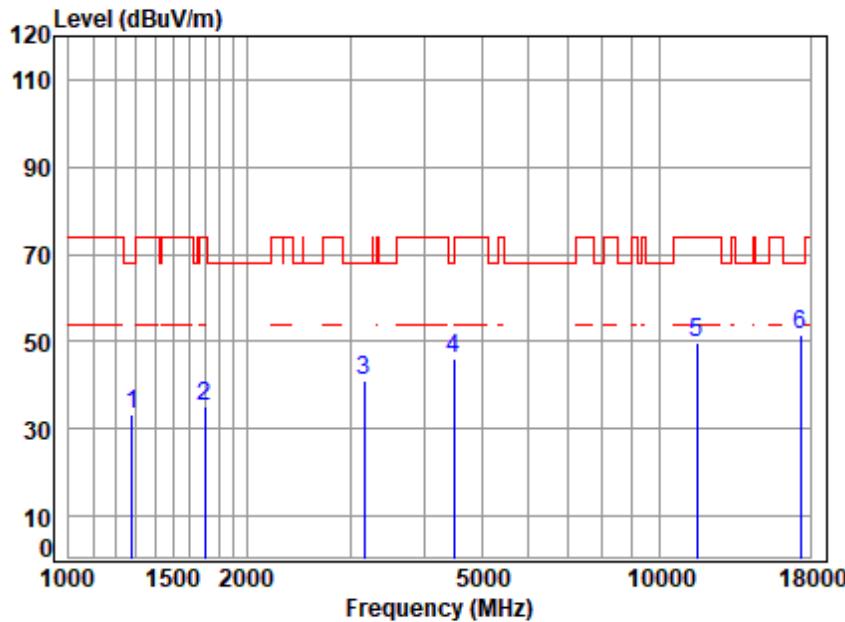
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5745 TX RSE
Note : 5G WIFI 11N20
: 4TX

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	2.90	24.92	40.34	44.55	32.03	68.20	-36.17 peak
2 1620.431	3.36	26.34	40.58	45.06	34.18	74.00	-39.82 peak
3 3299.344	5.27	31.39	41.52	47.12	42.26	68.20	-25.94 peak
4 4304.400	6.58	33.26	42.40	47.91	45.35	74.00	-28.65 peak
5 11490.000	11.62	37.90	38.69	38.85	49.68	74.00	-24.32 peak
6 17235.000	14.09	42.74	40.52	35.30	51.61	68.20	-16.59 peak

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



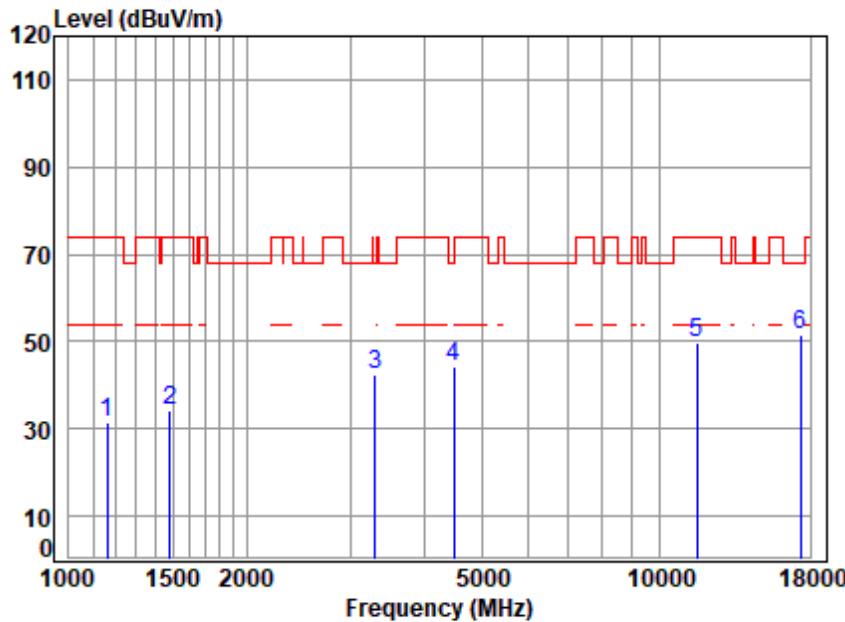
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5785 TX RSE
Note : 5G WIFI 11N20
: 4TX

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	2.91	24.93	40.35	45.70	33.19	68.20 -35.01 peak
2	1697.129	3.43	26.66	40.63	45.48	34.94	74.00 -39.06 peak
3	3159.355	5.08	31.17	41.37	46.29	41.17	68.20 -27.03 peak
4	4495.125	6.76	33.59	42.55	48.07	45.87	68.20 -22.33 peak
5	11570.000	11.72	37.87	38.72	38.87	49.74	74.00 -24.26 peak
6	17355.000	14.06	42.81	40.52	35.30	51.65	68.20 -16.55 peak

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



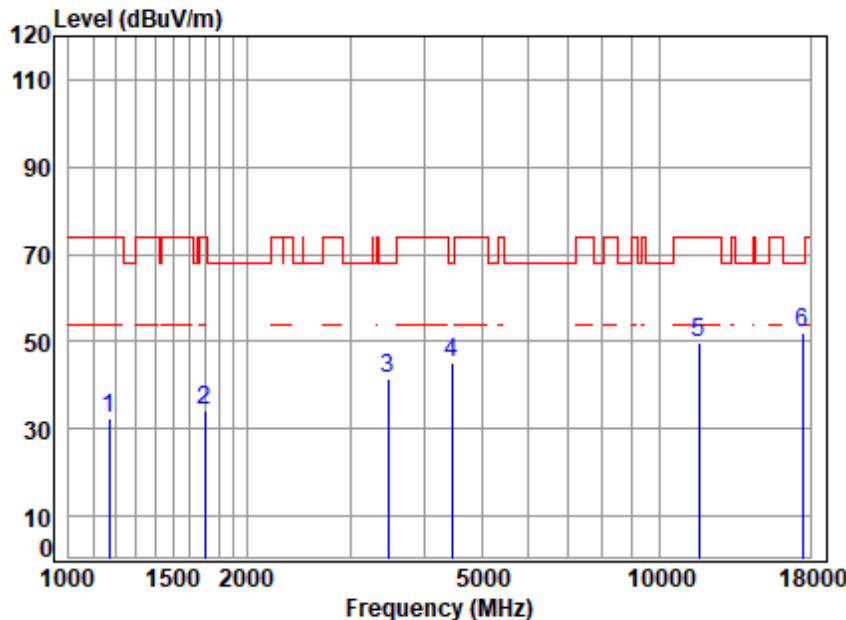
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5785 TX RSE
Note : 5G WIFI 11N20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1162.182	2.69	24.42	40.25	44.78	31.64	74.00	-42.36 peak
2 1485.841	3.24	25.75	40.50	45.55	34.04	74.00	-39.96 peak
3 3299.344	5.27	31.39	41.52	47.36	42.50	68.20	-25.70 peak
4 4495.125	6.76	33.59	42.55	46.27	44.07	68.20	-24.13 peak
5 11570.000	11.72	37.87	38.72	38.85	49.72	74.00	-24.28 peak
6 17355.000	14.06	42.81	40.52	35.19	51.54	68.20	-16.66 peak

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



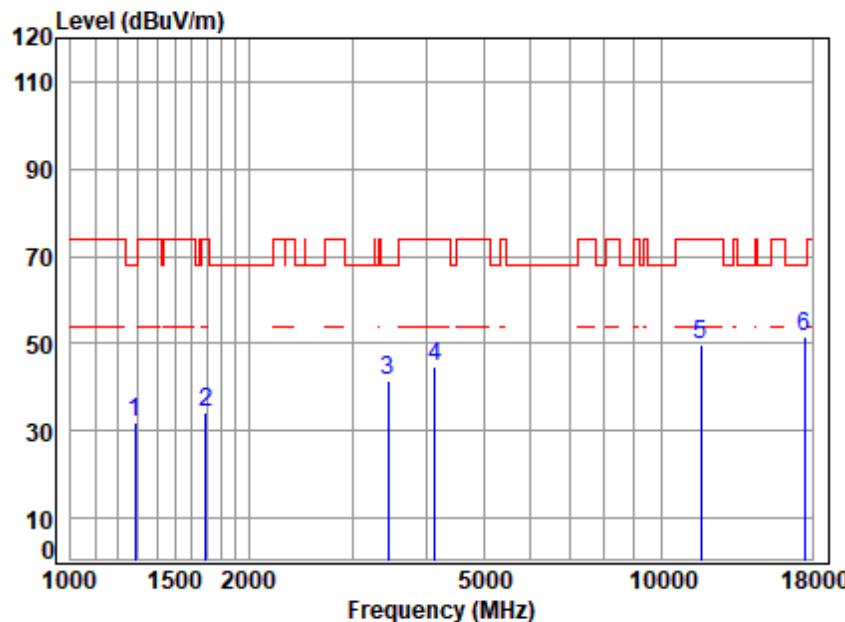
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5825 TX RSE
Note : 5G WIFI 11N20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1168.920	2.71	24.45	40.26	45.49	32.39	74.00	-41.61 peak
2 1697.129	3.43	26.66	40.63	44.65	34.11	74.00	-39.89 peak
3 3475.541	5.49	31.66	41.69	45.94	41.40	68.20	-26.80 peak
4 4456.315	6.72	33.53	42.52	47.65	45.38	68.20	-22.82 peak
5 11650.000	11.82	37.84	38.75	38.95	49.86	74.00	-24.14 peak
6 17475.000	14.02	42.89	40.52	35.54	51.93	68.20	-16.27 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5825 TX RSE
Note : 5G WIFI 11N20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1285.904	2.92	24.96	40.35	44.52	32.05	68.20	-36.15 peak
2 1692.231	3.42	26.64	40.63	44.83	34.26	74.00	-39.74 peak
3 3445.535	5.45	31.62	41.66	45.99	41.40	68.20	-26.80 peak
4 4133.699	6.41	32.95	42.27	47.51	44.60	74.00	-29.40 peak
5 11650.000	11.82	37.84	38.75	38.64	49.55	74.00	-24.45 peak
6 17475.000	14.02	42.89	40.52	35.10	51.49	68.20	-16.71 peak

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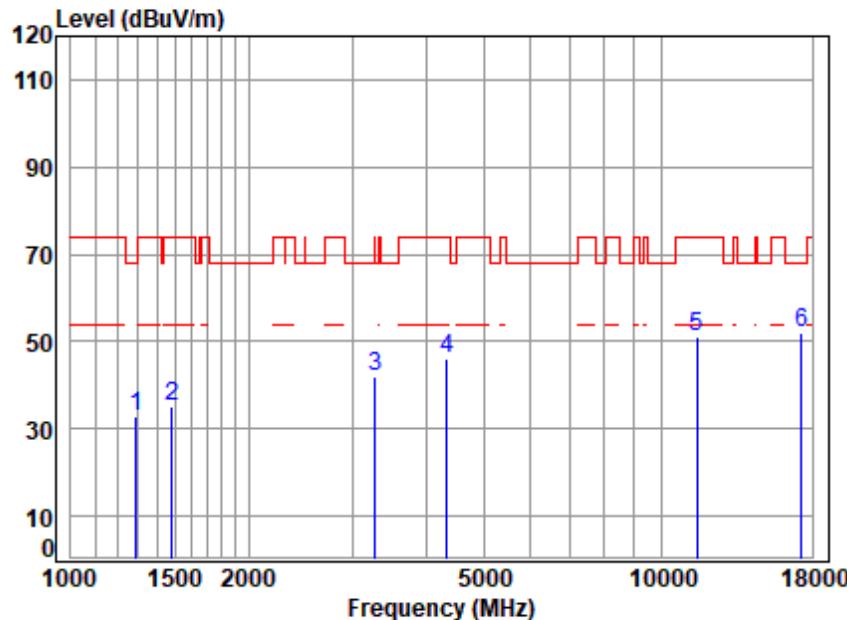
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5755 TX RSE
Note : 5G WIFI 11N40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1289.627	2.92	24.98	40.35	45.49	33.04	68.20	-35.16 peak
2	1481.553	3.23	25.73	40.49	46.87	35.34	74.00	-38.66 peak
3	3270.858	5.23	31.35	41.49	46.97	42.06	68.20	-26.14 peak
4	4329.354	6.60	33.30	42.42	48.40	45.88	74.00	-28.12 peak
5	11510.000	11.64	37.90	38.69	40.24	51.09	74.00	-22.91 peak
6	17265.000	14.08	42.76	40.52	35.56	51.88	68.20	-16.32 peak

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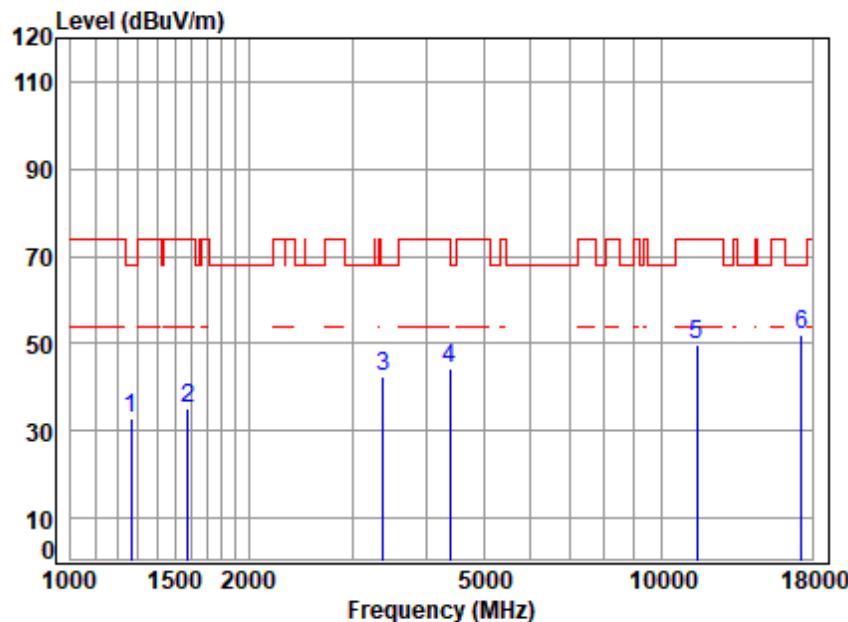
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



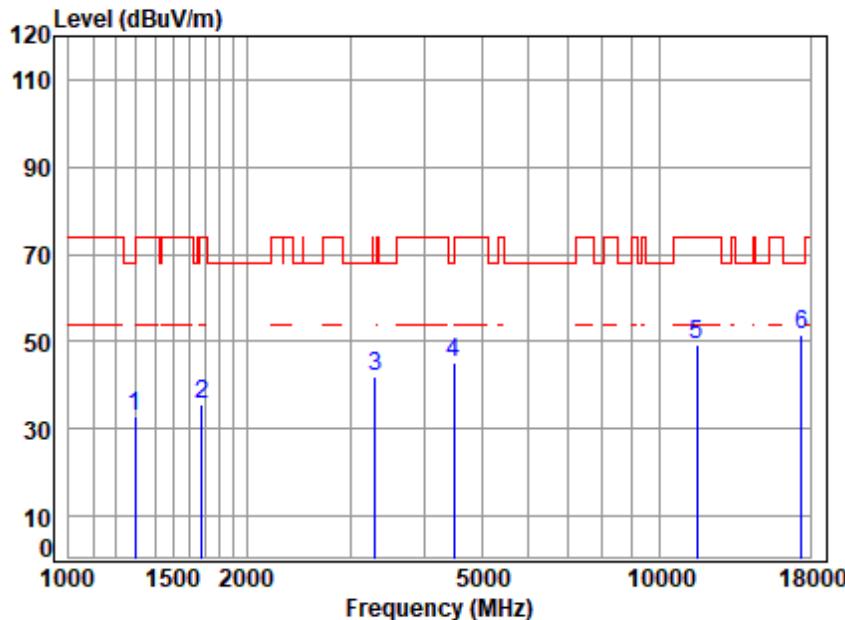
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5755 TX RSE
Note : 5G WIFI 11N40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1267.454	2.89	24.89	40.34	45.33	32.77	68.20	-35.43 peak
2 1578.822	3.33	26.16	40.56	46.24	35.17	74.00	-38.83 peak
3 3386.297	5.38	31.53	41.60	47.14	42.45	68.20	-25.75 peak
4 4379.699	6.65	33.39	42.46	46.80	44.38	74.00	-29.62 peak
5 11510.000	11.64	37.90	38.69	38.92	49.77	74.00	-24.23 peak
6 17265.000	14.08	42.76	40.52	35.71	52.03	68.20	-16.17 peak

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



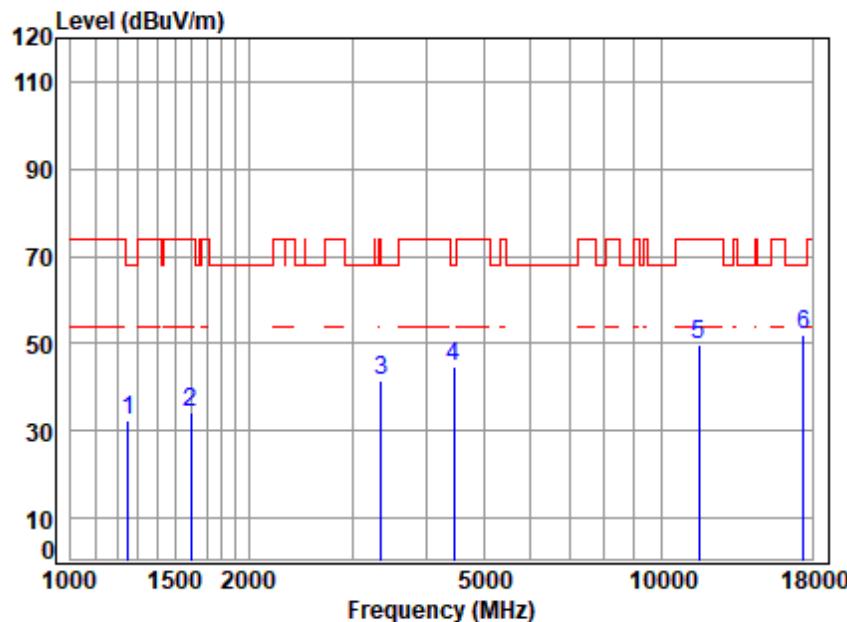
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5795 TX RSE
Note : 5G WIFI 11N40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1297.103	2.94	25.01	40.36	45.25	32.84	68.20	-35.36 peak
2 1677.621	3.41	26.58	40.62	46.11	35.48	74.00	-38.52 peak
3 3299.344	5.27	31.39	41.52	46.62	41.76	68.20	-26.44 peak
4 4495.125	6.76	33.59	42.55	47.39	45.19	68.20	-23.01 peak
5 11590.000	11.74	37.86	38.73	38.20	49.07	74.00	-24.93 peak
6 17385.000	14.05	42.83	40.52	35.36	51.72	68.20	-16.48 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5795 TX RSE
Note : 5G WIFI 11N40
: 4TX

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	2.86	24.82	40.33	45.08	32.43	68.20	-35.77 peak
2 1597.181	3.35	26.24	40.57	45.29	34.31	74.00	-39.69 peak
3 3357.061	5.34	31.48	41.57	46.30	41.55	74.00	-32.45 peak
4 4456.315	6.72	33.53	42.52	47.00	44.73	68.20	-23.47 peak
5 11590.000	11.74	37.86	38.73	39.04	49.91	74.00	-24.09 peak
6 17385.000	14.05	42.83	40.52	35.76	52.12	68.20	-16.08 peak

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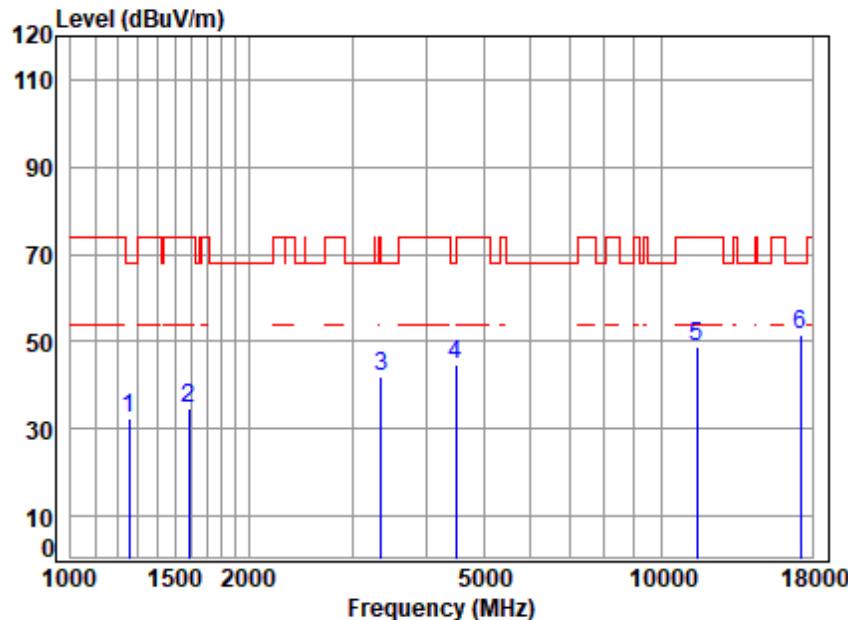
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



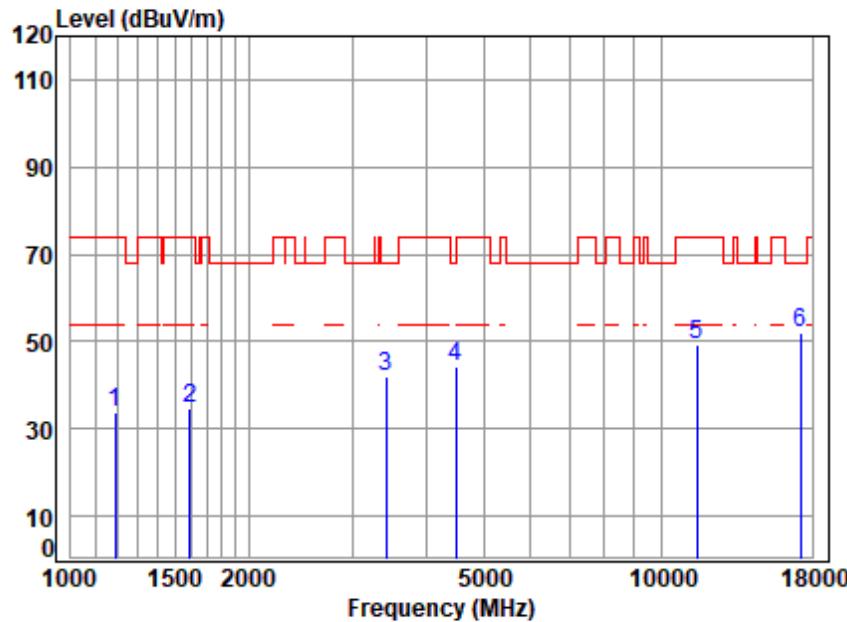
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5745 TX RSE
Note : 5G WIFI 11AC20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1256.512	2.87	24.84	40.33	44.97	32.35	68.20	-35.85 peak
2 1583.392	3.33	26.18	40.56	45.55	34.50	74.00	-39.50 peak
3 3357.061	5.34	31.48	41.57	46.70	41.95	74.00	-32.05 peak
4 4495.125	6.76	33.59	42.55	46.88	44.68	68.20	-23.52 peak
5 11490.000	11.62	37.90	38.69	37.89	48.72	74.00	-25.28 peak
6 17235.000	14.09	42.74	40.52	35.40	51.71	68.20	-16.49 peak

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



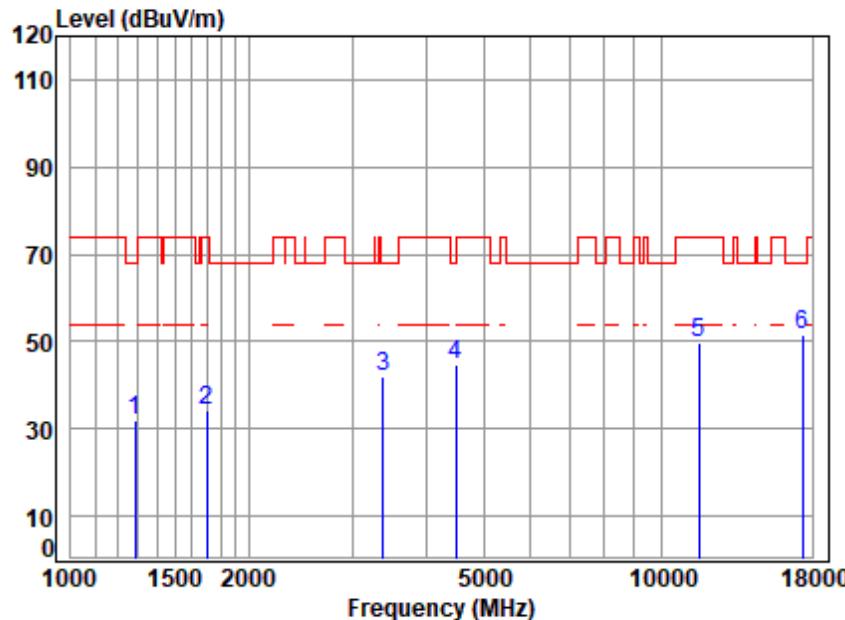
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5745 TX RSE
Note : 5G WIFI 11AC20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1189.368	2.74	24.54	40.27	46.71	33.72	74.00	-40.28 peak
2 1592.571	3.34	26.22	40.57	45.59	34.58	74.00	-39.42 peak
3 3415.787	5.42	31.57	41.63	46.46	41.82	68.20	-26.38 peak
4 4482.150	6.74	33.57	42.54	46.63	44.40	68.20	-23.80 peak
5 11490.000	11.62	37.90	38.69	38.37	49.20	74.00	-24.80 peak
6 17235.000	14.09	42.74	40.52	35.80	52.11	68.20	-16.09 peak

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



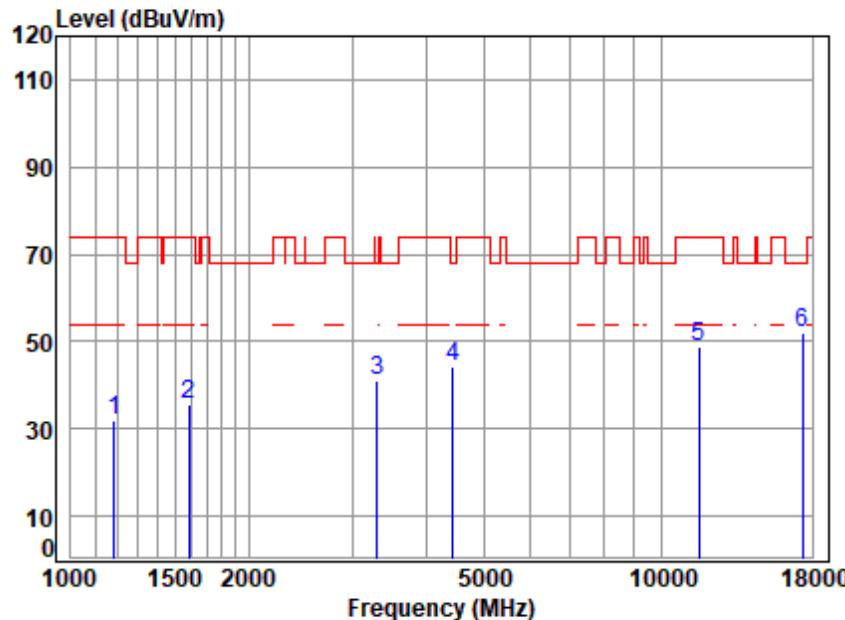
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5785 TX RSE
Note : 5G WIFI 11AC20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1285.904	2.92	24.96	40.35	44.47	32.00	68.20	-36.20 peak
2 1697.129	3.43	26.66	40.63	44.84	34.30	74.00	-39.70 peak
3 3386.297	5.38	31.53	41.60	46.57	41.88	68.20	-26.32 peak
4 4482.150	6.74	33.57	42.54	47.00	44.77	68.20	-23.43 peak
5 11570.000	11.72	37.87	38.72	38.93	49.80	74.00	-24.20 peak
6 17355.000	14.06	42.81	40.52	35.00	51.35	68.20	-16.85 peak

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



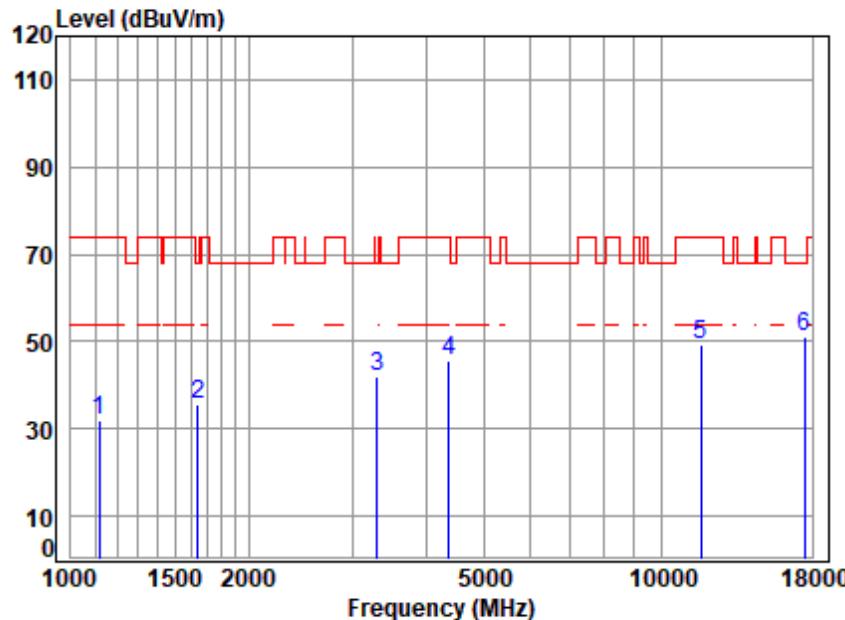
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5785 TX RSE
Note : 5G WIFI 11AC20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1185.936	2.74	24.53	40.27	45.05	32.05	74.00	-41.95 peak
2 1587.975	3.34	26.20	40.56	46.58	35.56	74.00	-38.44 peak
3 3299.344	5.27	31.39	41.52	46.12	41.26	68.20	-26.94 peak
4 4430.628	6.70	33.48	42.50	46.59	44.27	68.20	-23.93 peak
5 11570.000	11.72	37.87	38.72	37.86	48.73	74.00	-25.27 peak
6 17355.000	14.06	42.81	40.52	35.48	51.83	68.20	-16.37 peak

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



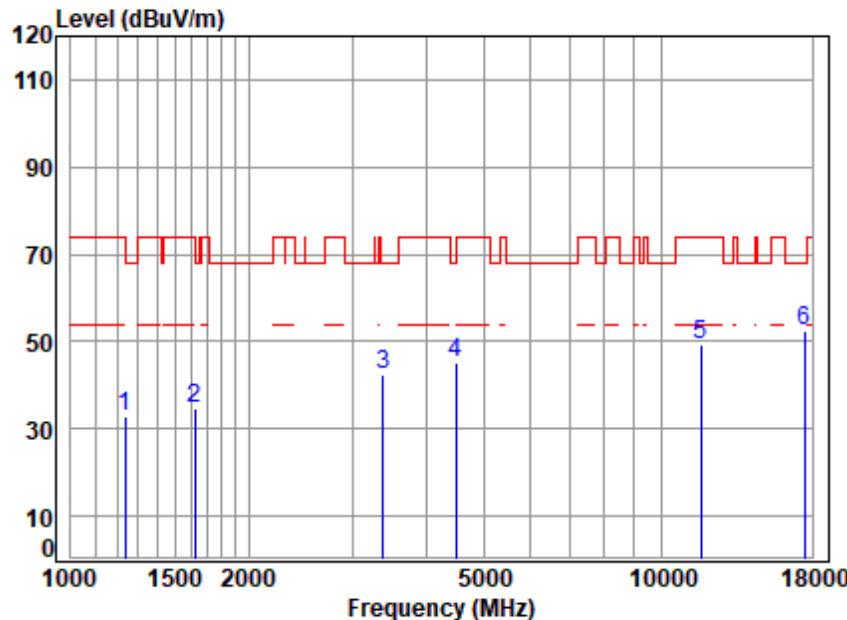
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5825 TX RSE
Note : 5G WIFI 11AC20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1116.093	2.60	24.20	40.21	45.32	31.91	74.00	-42.09 peak
2 1639.274	3.38	26.42	40.59	46.19	35.40	68.20	-32.80 peak
3 3299.344	5.27	31.39	41.52	46.87	42.01	68.20	-26.19 peak
4 4367.058	6.64	33.37	42.45	47.88	45.44	74.00	-28.56 peak
5 11650.000	11.82	37.84	38.75	38.15	49.06	74.00	-24.94 peak
6 17475.000	14.02	42.89	40.52	34.81	51.20	68.20	-17.00 peak

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



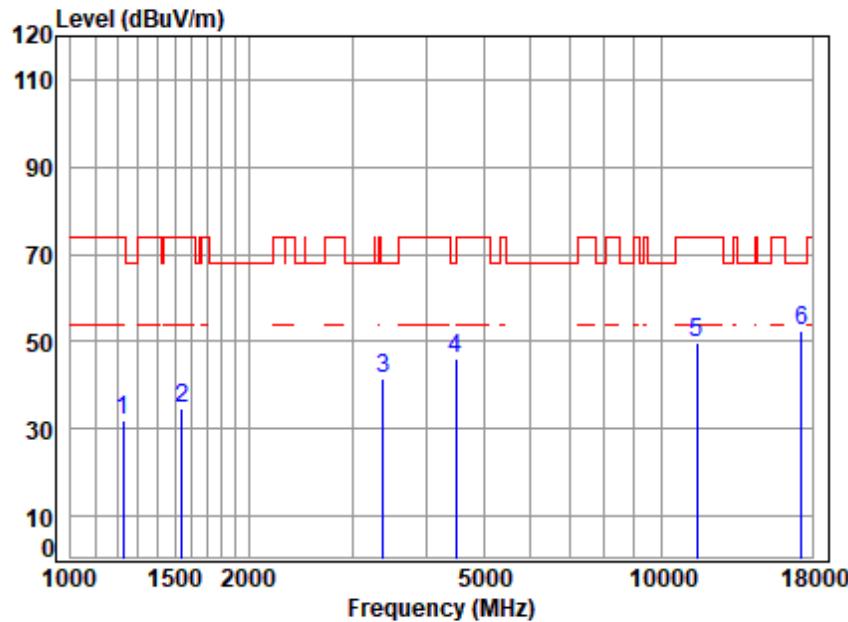
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5825 TX RSE
Note : 5G WIFI 11AC20
: 4TX

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	2.83	24.76	40.31	45.78	33.06	74.00	-40.94 peak
2 1625.121	3.37	26.36	40.59	45.61	34.75	74.00	-39.25 peak
3 3376.523	5.37	31.51	41.59	47.19	42.48	68.20	-25.72 peak
4 4495.125	6.76	33.59	42.55	47.18	44.98	68.20	-23.22 peak
5 11650.000	11.82	37.84	38.75	38.49	49.40	74.00	-24.60 peak
6 17475.000	14.02	42.89	40.52	36.03	52.42	68.20	-15.78 peak

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



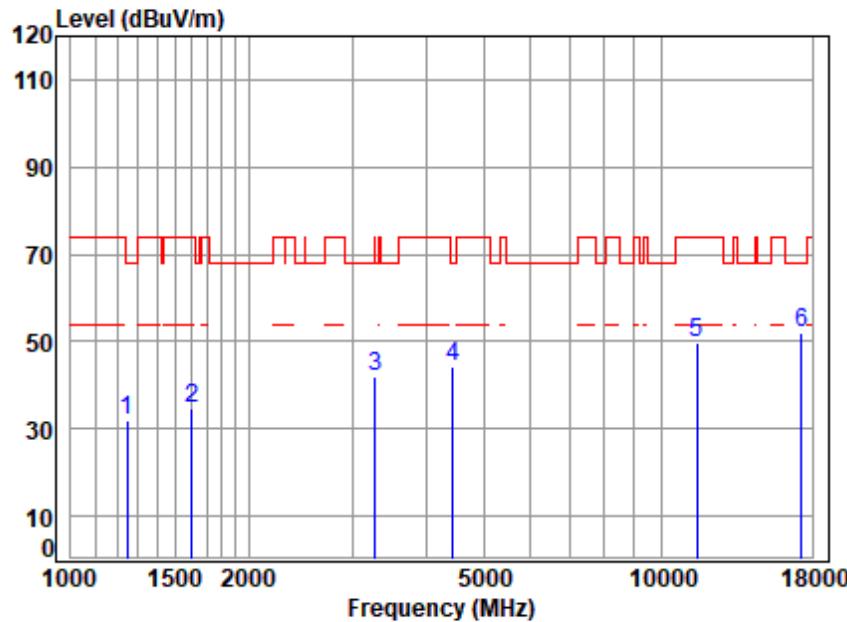
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5755 TX RSE
Note : 5G WIFI 11AC40
: 4TX

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	2.82	24.71	40.31	44.73	31.95	74.00	-42.05 peak
2	1542.733	3.30	26.00	40.53	45.90	34.67	74.00	-39.33 peak
3	3376.523	5.37	31.51	41.59	46.08	41.37	68.20	-26.83 peak
4	4495.125	6.76	33.59	42.55	48.07	45.87	68.20	-22.33 peak
5	11510.000	11.64	37.90	38.69	38.72	49.57	74.00	-24.43 peak
6	17265.000	14.08	42.76	40.52	36.01	52.33	68.20	-15.87 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5755 TX RSE
Note : 5G WIFI 11AC40
: 4TX

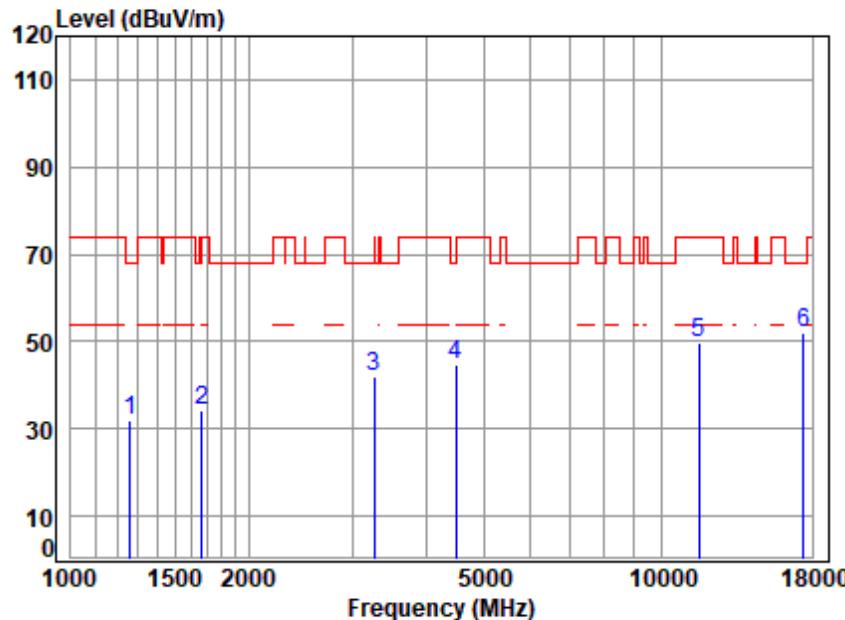
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1245.663	2.85	24.79	40.32	44.77	32.09	68.20	-36.11 peak
2 1601.804	3.35	26.26	40.57	45.64	34.68	74.00	-39.32 peak
3 3280.326	5.24	31.36	41.50	46.86	41.96	68.20	-26.24 peak
4 4430.628	6.70	33.48	42.50	46.66	44.34	68.20	-23.86 peak
5 11510.000	11.64	37.90	38.69	38.69	49.54	74.00	-24.46 peak
6 17265.000	14.08	42.76	40.52	35.69	52.01	68.20	-16.19 peak

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



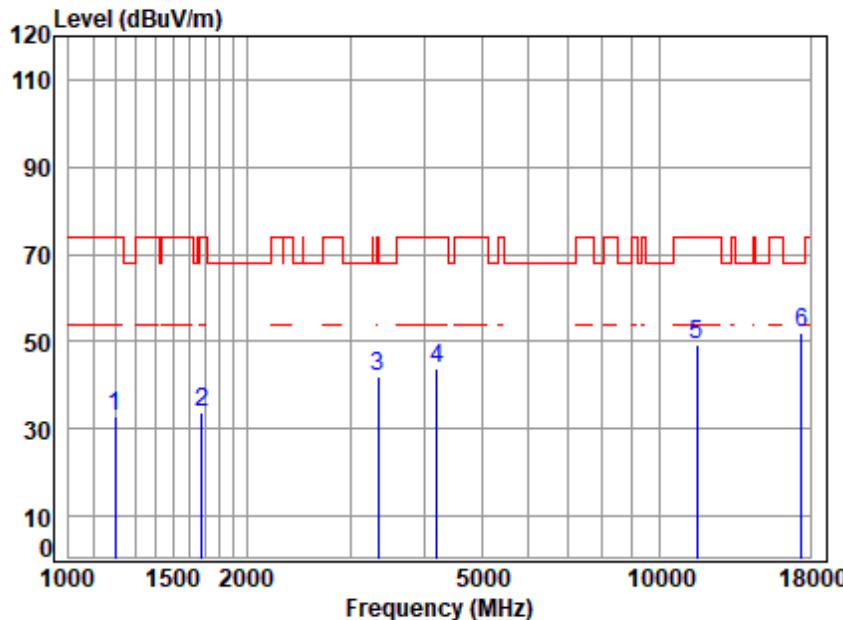
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5795 TX RSE
Note : 5G WIFI 11AC40
: 4TX

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	2.87	24.85	40.33	44.62	32.01	68.20	-36.19 peak
2 1667.951	3.40	26.54	40.61	44.85	34.18	74.00	-39.82 peak
3 3261.418	5.22	31.33	41.48	46.68	41.75	74.00	-32.25 peak
4 4495.125	6.76	33.59	42.55	46.79	44.59	68.20	-23.61 peak
5 11590.000	11.74	37.86	38.73	38.68	49.55	74.00	-24.45 peak
6 17385.000	14.05	42.83	40.52	35.64	52.00	68.20	-16.20 peak

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



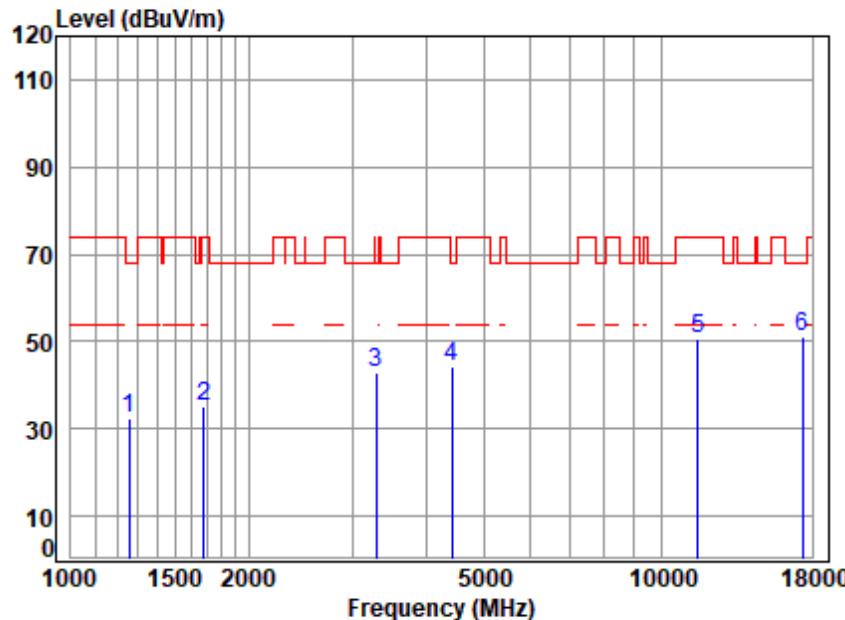
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5795 TX RSE
Note : 5G WIFI 11AC40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1196.264	2.76	24.57	40.28	45.84	32.89	74.00	-41.11 peak
2 1677.621	3.41	26.58	40.62	44.61	33.98	74.00	-40.02 peak
3 3337.710	5.32	31.45	41.56	46.73	41.94	74.00	-32.06 peak
4 4193.872	6.47	33.06	42.31	46.74	43.96	74.00	-30.04 peak
5 11590.000	11.74	37.86	38.73	38.25	49.12	74.00	-24.88 peak
6 17385.000	14.05	42.83	40.52	35.65	52.01	68.20	-16.19 peak

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



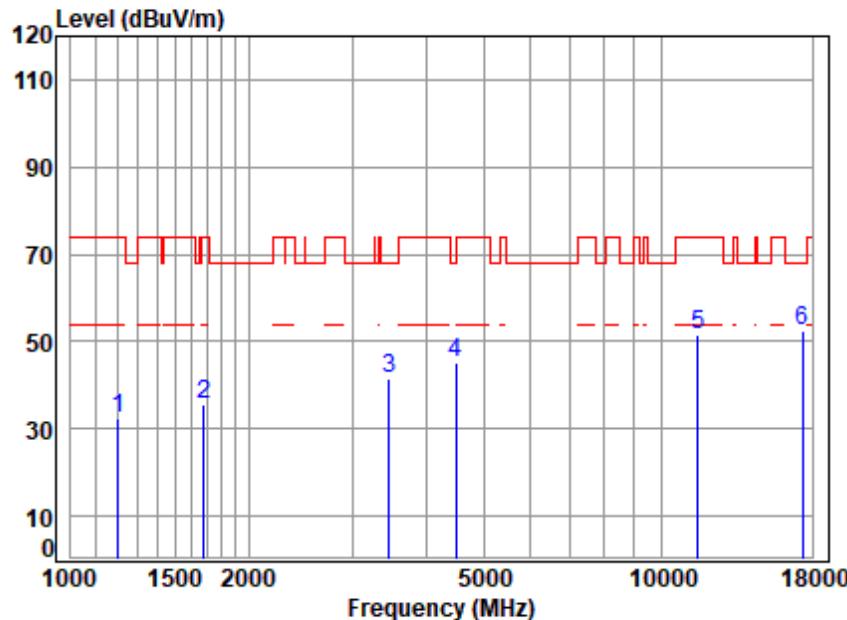
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5775 TX RSE
Note : 5G WIFI 11AC80
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1256.512	2.87	24.84	40.33	44.86	32.24	68.20	-35.96 peak
2	1682.477	3.42	26.60	40.62	45.52	34.92	74.00	-39.08 peak
3	3289.821	5.25	31.38	41.51	47.60	42.72	68.20	-25.48 peak
4	4417.841	6.68	33.46	42.49	46.57	44.22	68.20	-23.98 peak
5	11550.000	11.69	37.88	38.71	39.62	50.48	74.00	-23.52 peak
6	17325.000	14.07	42.80	40.52	34.64	50.99	68.20	-17.21 peak

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



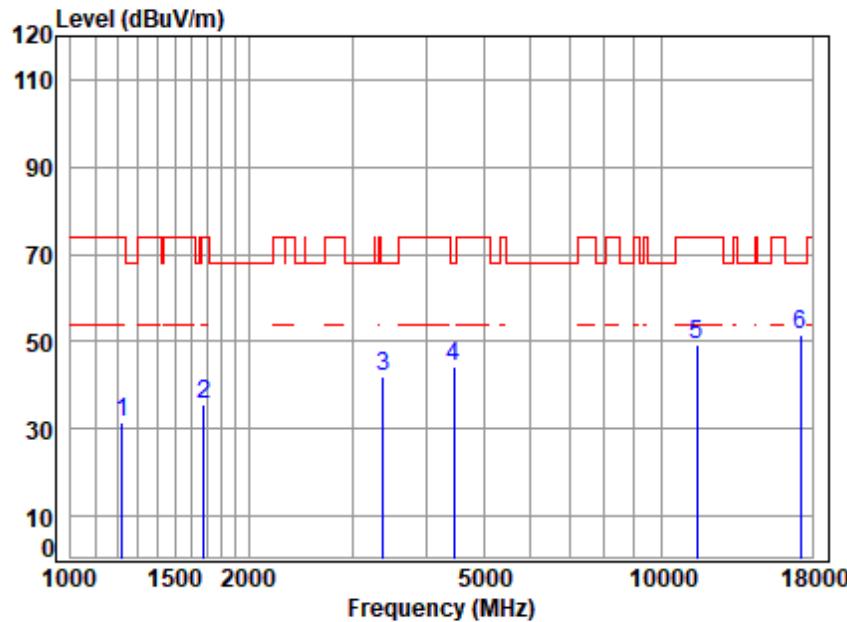
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5775 TX RSE
Note : 5G WIFI 11AC80
: 4TX

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	2.77	24.60	40.29	45.53	32.61	74.00	-41.39 peak
2 1677.621	3.41	26.58	40.62	46.31	35.68	74.00	-38.32 peak
3 3465.510	5.48	31.65	41.68	46.16	41.61	68.20	-26.59 peak
4 4495.125	6.76	33.59	42.55	47.14	44.94	68.20	-23.26 peak
5 11550.000	11.69	37.88	38.71	40.70	51.56	74.00	-22.44 peak
6 17325.000	14.07	42.80	40.52	36.28	52.63	68.20	-15.57 peak

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



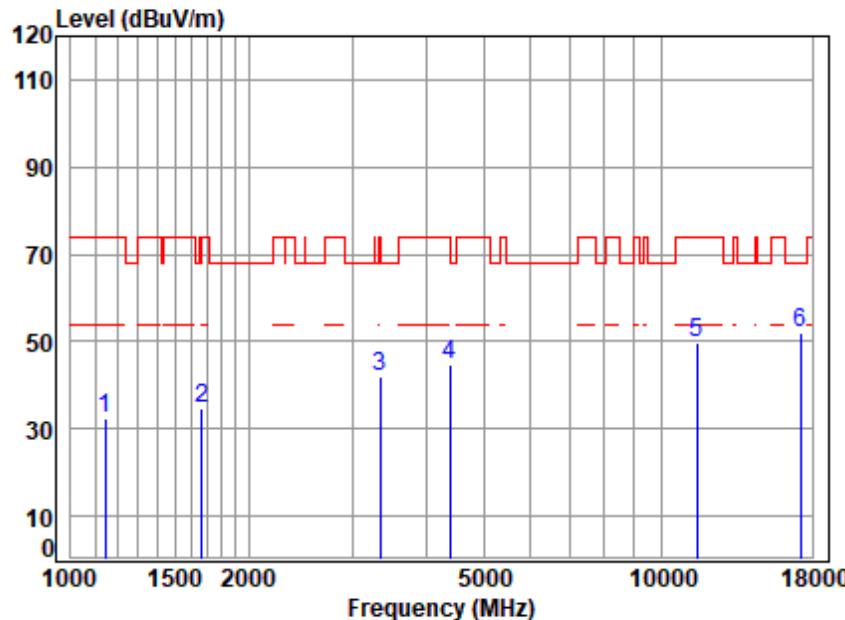
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5745 TX RSE
Note : 5G WIFI 11AX20
: 4TX

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 1224.247	2.81	24.70	40.30	44.42	31.63	74.00	-42.37 peak
2 1682.477	3.42	26.60	40.62	46.28	35.68	74.00	-38.32 peak
3 3386.297	5.38	31.53	41.60	46.88	42.19	68.20	-26.01 peak
4 4456.315	6.72	33.53	42.52	46.38	44.11	68.20	-24.09 peak
5 11490.000	11.62	37.90	38.69	38.39	49.22	74.00	-24.78 peak
6 17235.000	14.09	42.74	40.52	35.22	51.53	68.20	-16.67 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5745 TX RSE
Note : 5G WIFI 11AX20
: 4TX

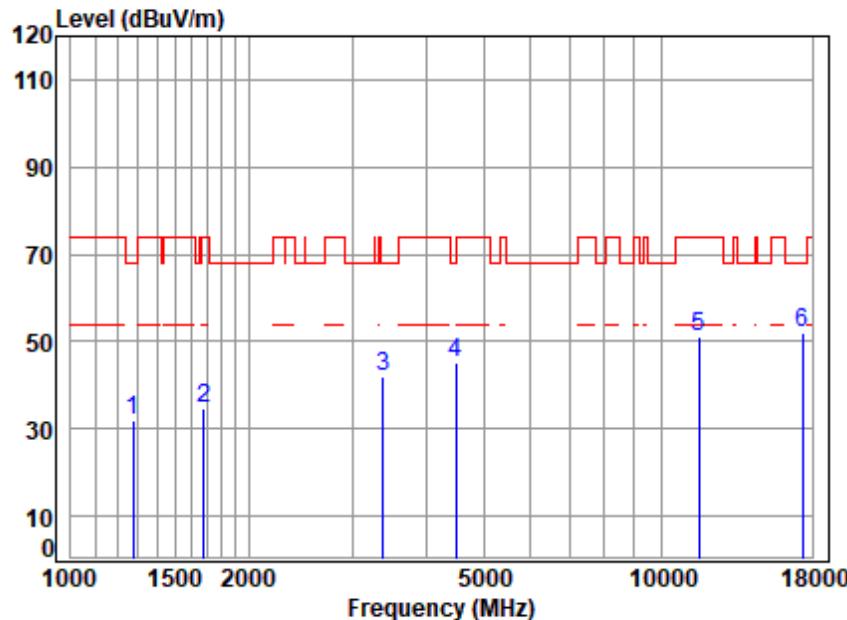
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1142.201	2.66	24.32	40.23	45.42	32.17	74.00	-41.83 peak
2 1667.951	3.40	26.54	40.61	45.41	34.74	74.00	-39.26 peak
3 3347.371	5.33	31.47	41.56	46.75	41.99	74.00	-32.01 peak
4 4379.699	6.65	33.39	42.46	47.27	44.85	74.00	-29.15 peak
5 11490.000	11.62	37.90	38.69	38.83	49.66	74.00	-24.34 peak
6 17235.000	14.09	42.74	40.52	35.68	51.99	68.20	-16.21 peak

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



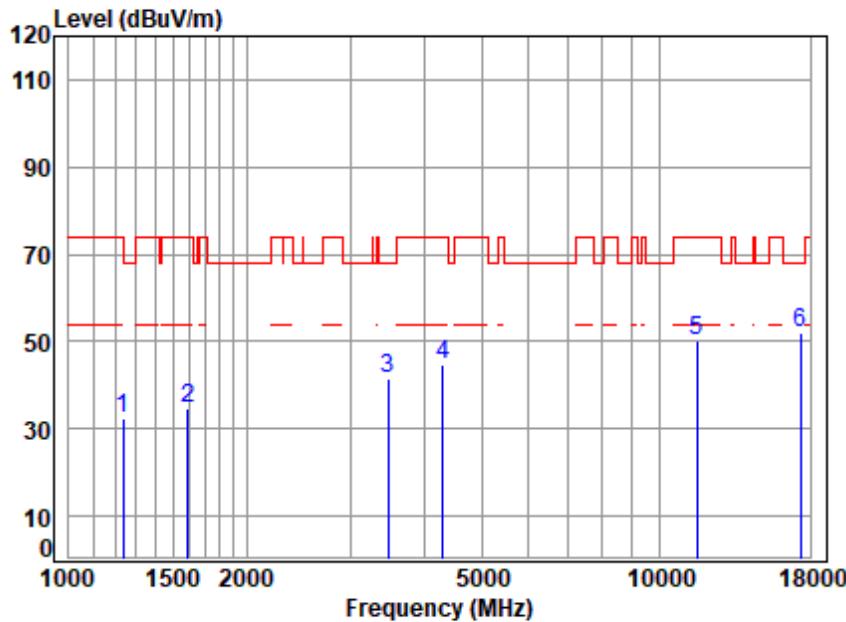
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5785 TX RSE
Note : 5G WIFI 11AC20
: 4TX

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	2.90	24.92	40.34	44.37	31.85	68.20	-36.35 peak
2	1682.477	3.42	26.60	40.62	45.40	34.80	74.00	-39.20 peak
3	3386.297	5.38	31.53	41.60	46.61	41.92	68.20	-26.28 peak
4	4495.125	6.76	33.59	42.55	47.49	45.29	68.20	-22.91 peak
5	11570.000	11.72	37.87	38.72	40.09	50.96	74.00	-23.04 peak
6	17355.000	14.06	42.81	40.52	35.74	52.09	68.20	-16.11 peak

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



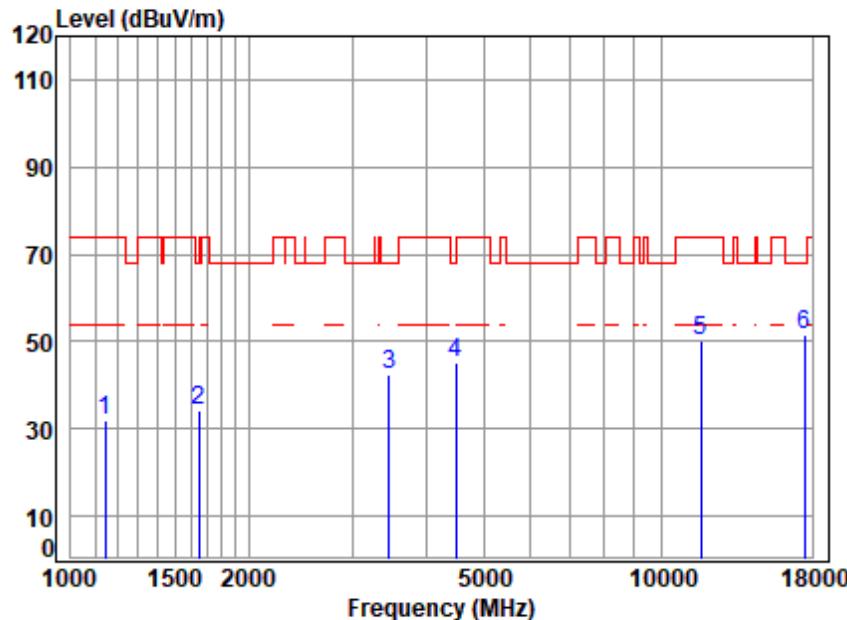
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5785 TX RSE
Note : 5G WIFI 11AX20
: 4TX

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	2.83	24.76	40.31	45.32	32.60	74.00	-41.40 peak
2	1592.571	3.34	26.22	40.57	45.58	34.57	74.00	-39.43 peak
3	3475.541	5.49	31.66	41.69	46.23	41.69	68.20	-26.51 peak
4	4304.400	6.58	33.26	42.40	47.25	44.69	74.00	-29.31 peak
5	11570.000	11.72	37.87	38.72	39.16	50.03	74.00	-23.97 peak
6	17355.000	14.06	42.81	40.52	35.58	51.93	68.20	-16.27 peak

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



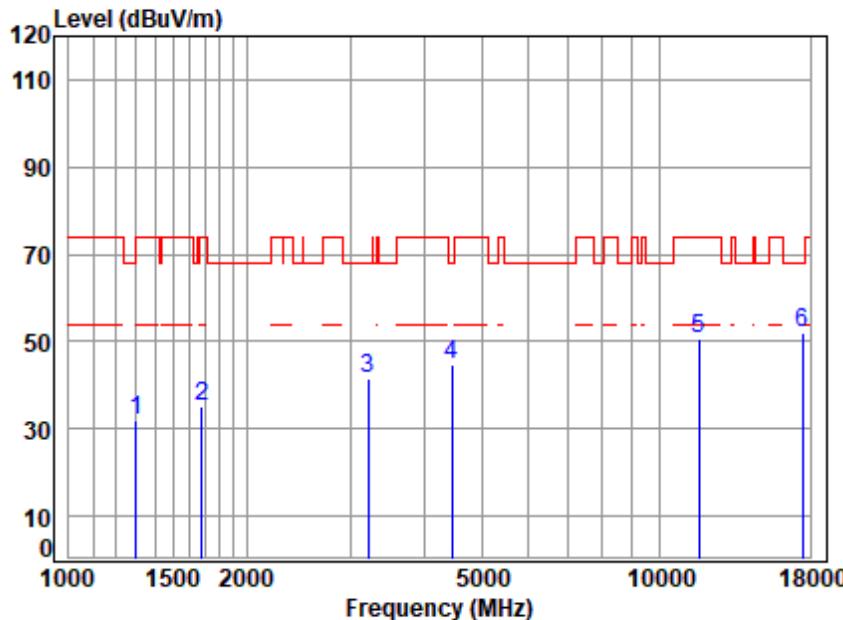
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5825 TX RSE
Note : 5G WIFI 11AX20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1145.507	2.66	24.34	40.24	45.39	32.15	74.00	-41.85 peak
2 1648.778	3.39	26.46	40.60	45.07	34.32	68.20	-33.88 peak
3 3465.510	5.48	31.65	41.68	46.94	42.39	68.20	-25.81 peak
4 4495.125	6.76	33.59	42.55	47.20	45.00	68.20	-23.20 peak
5 11650.000	11.82	37.84	38.75	39.37	50.28	74.00	-23.72 peak
6 17475.000	14.02	42.89	40.52	35.30	51.69	68.20	-16.51 peak

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



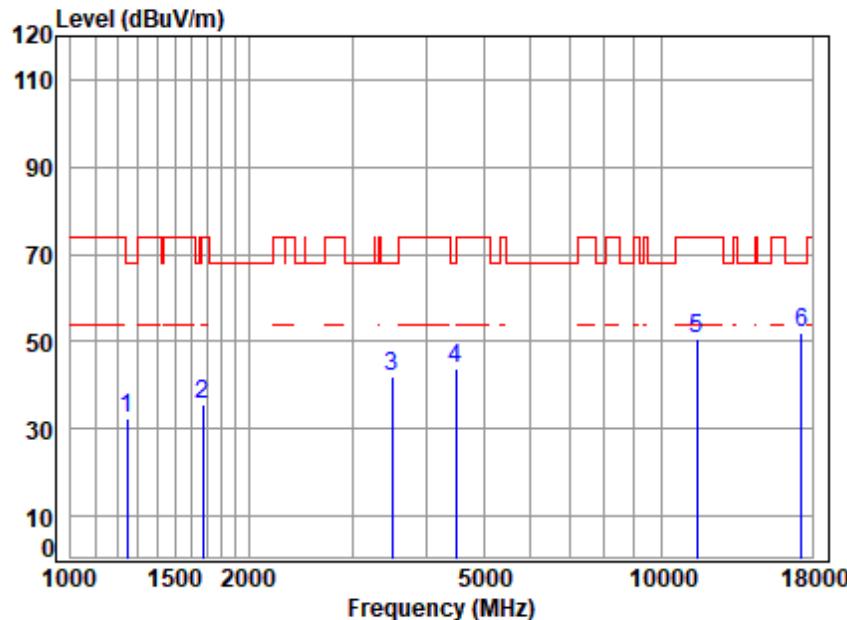
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5825 TX RSE
Note : 5G WIFI 11AX20
: 4TX

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	2.94	25.03	40.36	44.42	32.03	74.00 -41.97 peak
2	1677.621	3.41	26.58	40.62	45.73	35.10	74.00 -38.90 peak
3	3214.623	5.16	31.26	41.43	46.45	41.44	68.20 -26.76 peak
4	4456.315	6.72	33.53	42.52	46.91	44.64	68.20 -23.56 peak
5	11650.000	11.82	37.84	38.75	39.86	50.77	74.00 -23.23 peak
6	17475.000	14.02	42.89	40.52	35.78	52.17	68.20 -16.03 peak

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



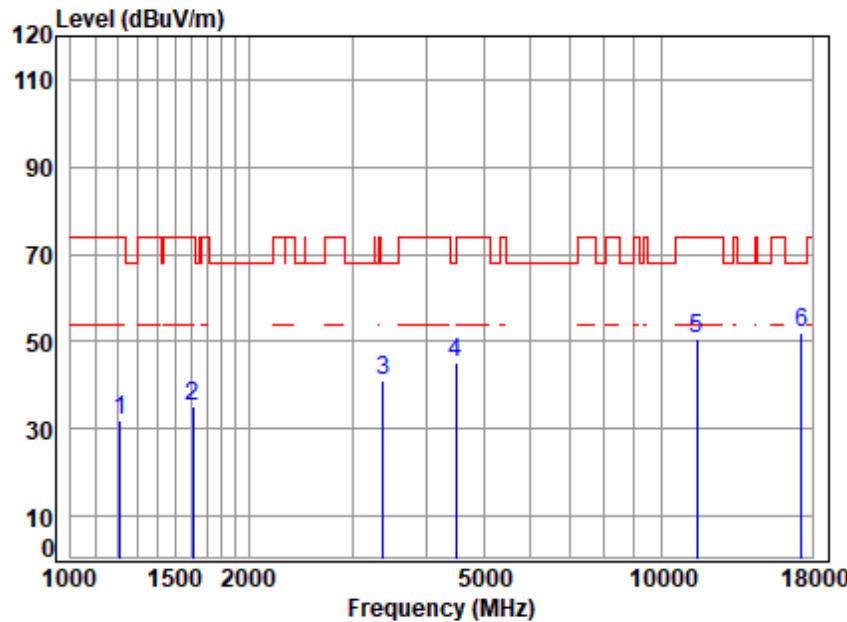
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5755 TX RSE
Note : 5G WIFI 11AX40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1245.663	2.85	24.79	40.32	45.05	32.37	68.20	-35.83 peak
2	1672.779	3.41	26.56	40.62	46.05	35.40	74.00	-38.60 peak
3	3495.691	5.51	31.69	41.71	46.56	42.05	68.20	-26.15 peak
4	4495.125	6.76	33.59	42.55	46.21	44.01	68.20	-24.19 peak
5	11510.000	11.64	37.90	38.69	39.89	50.74	74.00	-23.26 peak
6	17265.000	14.08	42.76	40.52	35.67	51.99	68.20	-16.21 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5755 TX RSE
Note : 5G WIFI 11AX40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1213.677	2.79	24.65	40.29	44.73	31.88	74.00	-42.12 peak
2 1611.091	3.36	26.30	40.58	45.93	35.01	74.00	-38.99 peak
3 3376.523	5.37	31.51	41.59	45.92	41.21	68.20	-26.99 peak
4 4495.125	6.76	33.59	42.55	47.22	45.02	68.20	-23.18 peak
5 11510.000	11.64	37.90	38.69	39.68	50.53	74.00	-23.47 peak
6 17265.000	14.08	42.76	40.52	35.68	52.00	68.20	-16.20 peak

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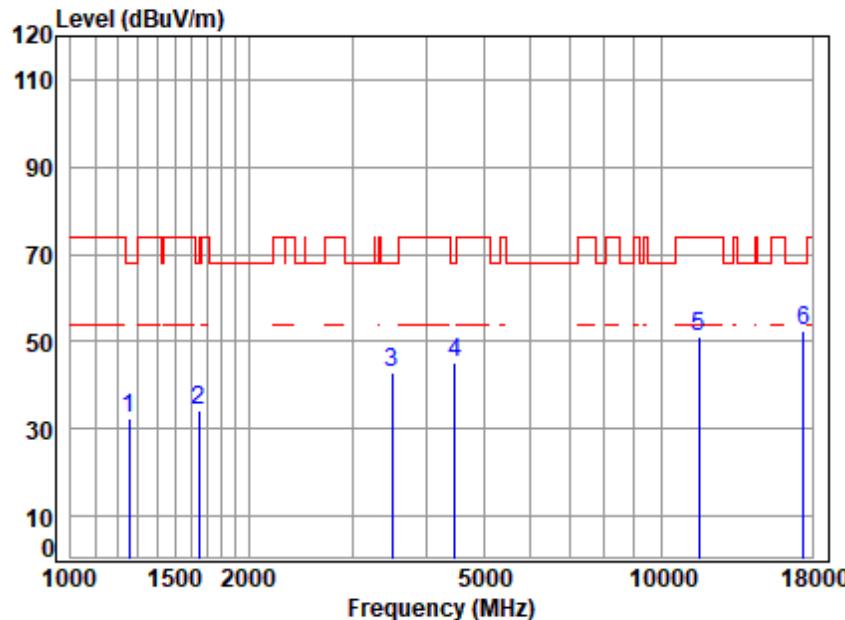
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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



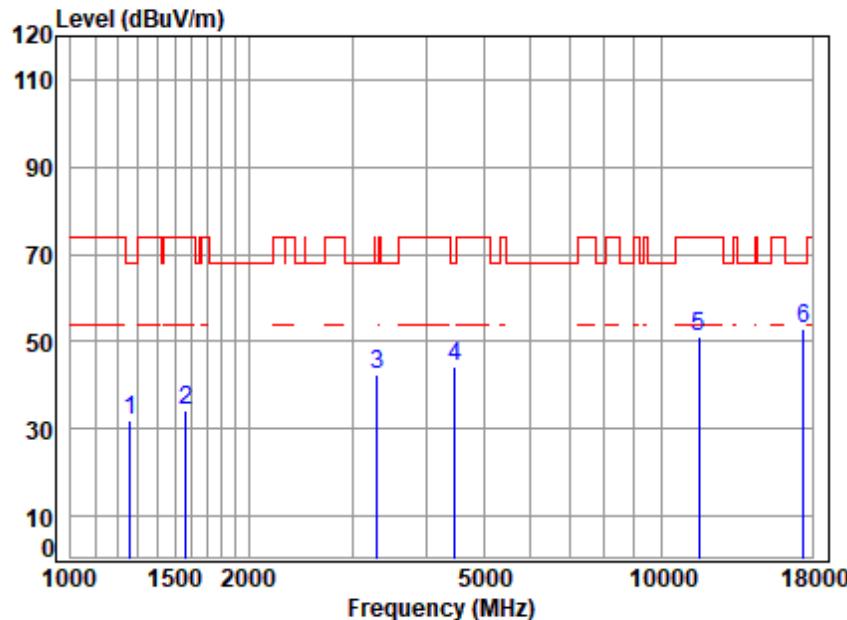
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5795 TX RSE
Note : 5G WIFI 11AX40
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1256.512	2.87	24.84	40.33	44.88	32.26	68.20	-35.94 peak
2 1648.778	3.39	26.46	40.60	44.81	34.06	68.20	-34.14 peak
3 3495.691	5.51	31.69	41.71	47.21	42.70	68.20	-25.50 peak
4 4469.214	6.73	33.55	42.53	47.35	45.10	68.20	-23.10 peak
5 11590.000	11.74	37.86	38.73	40.31	51.18	74.00	-22.82 peak
6 17385.000	14.05	42.83	40.52	36.20	52.56	68.20	-15.64 peak

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



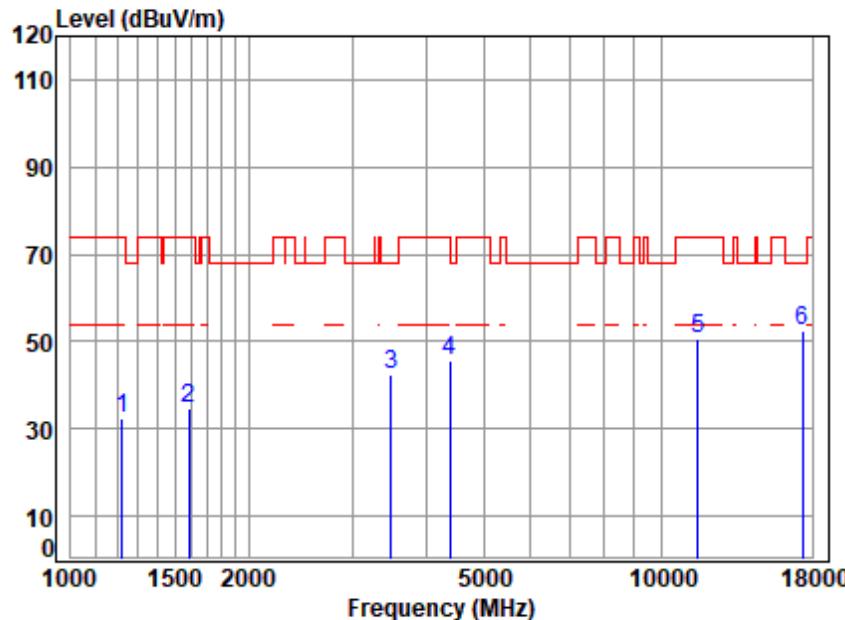
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5795 TX RSE
Note : 5G WIFI 11AX40
: 4TX

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark	
				dB	dB/m	dB	dBuV	dBuV/m	dBuV/m
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1260.149	2.87	24.85	40.33	44.41	31.80	68.20	-36.40	peak	
2 1569.721	3.32	26.12	40.55	45.20	34.09	74.00	-39.91	peak	
3 3299.344	5.27	31.39	41.52	47.35	42.49	68.20	-25.71	peak	
4 4469.214	6.73	33.55	42.53	46.50	44.25	68.20	-23.95	peak	
5 11590.000	11.74	37.86	38.73	40.05	50.92	74.00	-23.08	peak	
6 17385.000	14.05	42.83	40.52	36.63	52.99	68.20	-15.21	peak	

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:80MHz; Channel:middle



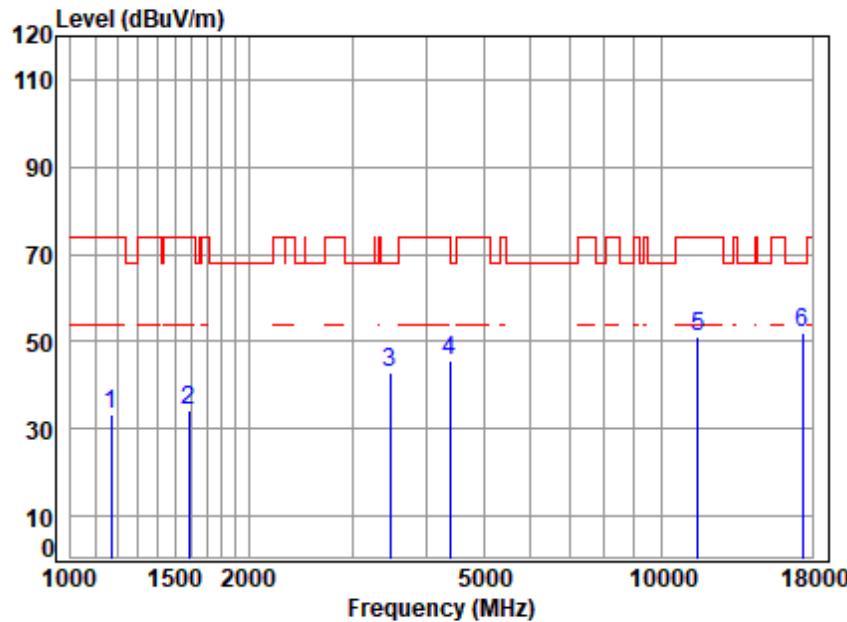
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 5775 TX RSE
Note : 5G WIFI 11AX80
: 4TX

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	2.80	24.68	40.30	45.13	32.31	74.00	-41.69 peak
2	1583.392	3.33	26.18	40.56	45.63	34.58	74.00	-39.42 peak
3	3485.601	5.50	31.68	41.70	46.93	42.41	68.20	-25.79 peak
4	4379.699	6.65	33.39	42.46	48.03	45.61	74.00	-28.39 peak
5	11550.000	11.69	37.88	38.71	39.91	50.77	74.00	-23.23 peak
6	17325.000	14.07	42.80	40.52	36.17	52.52	68.20	-15.68 peak

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ax; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR/08719CR
Mode : 5775 TX RSE
Note : 5G WIFI 11AX80
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1172.303	2.71	24.46	40.26	46.61	33.52	74.00	-40.48 peak
2	1587.975	3.34	26.20	40.56	45.29	34.27	74.00	-39.73 peak
3	3475.541	5.49	31.66	41.69	47.30	42.76	68.20	-25.44 peak
4	4379.699	6.65	33.39	42.46	48.03	45.61	74.00	-28.39 peak
5	11550.000	11.69	37.88	38.71	40.02	50.88	74.00	-23.12 peak
6	17325.000	14.07	42.80	40.52	35.48	51.83	68.20	-16.37 peak

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7.9 Radiated Emissions which fall in the restricted bands

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

Test Method: KDB 789033 D02 II G

Limit:

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

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

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

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

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

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

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 51 % RH

Atmospheric Pressure: 1015 mbar

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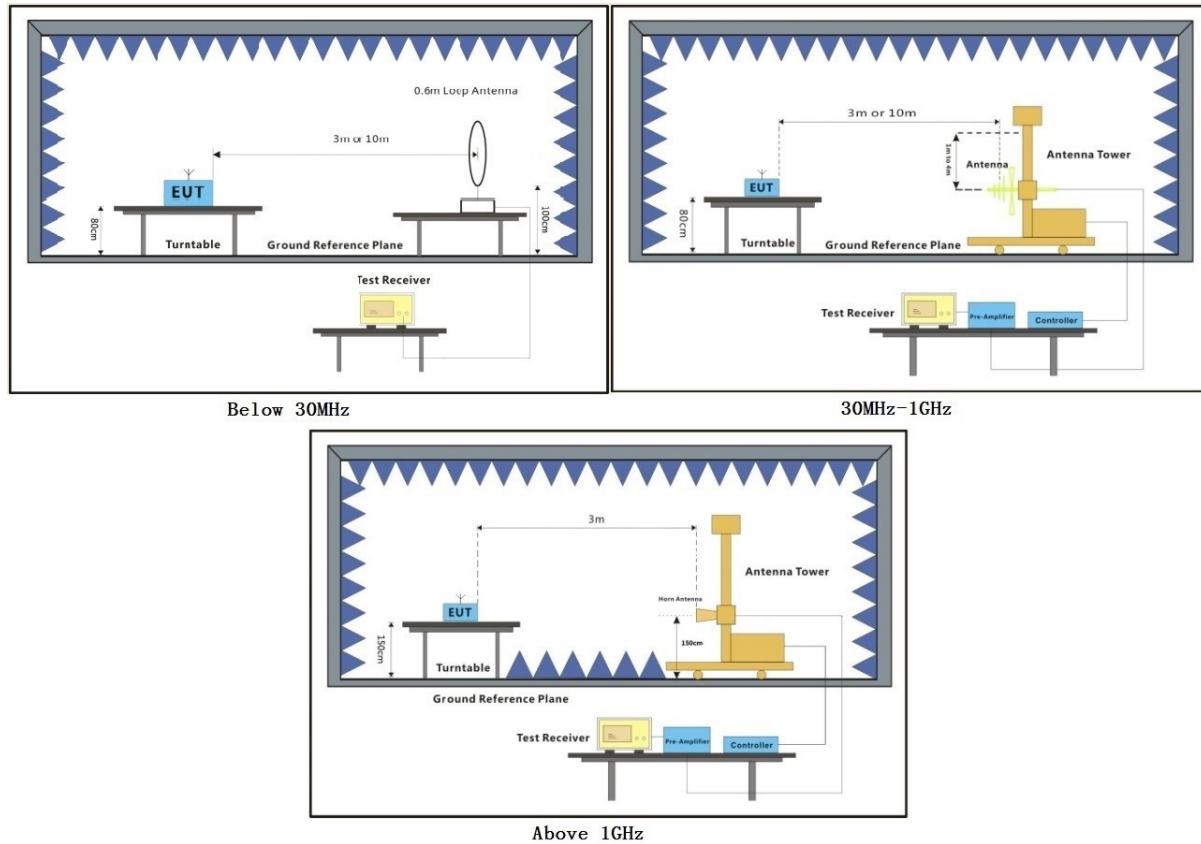
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7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT160); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE160). Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT160); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE160). Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT160); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

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7.9.3 Test Setup Diagram

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7.9.4 Measurement Procedure and Data

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

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



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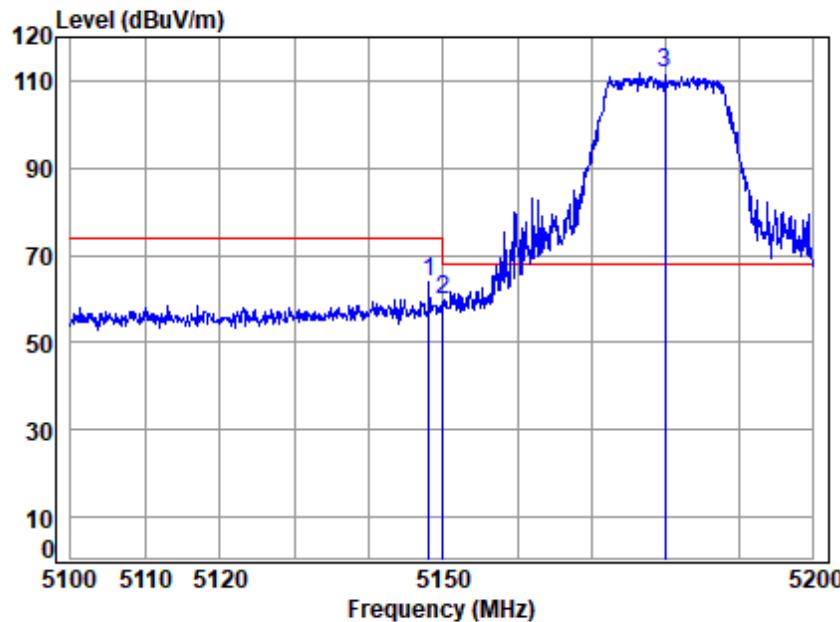
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For SISO mode: ANT1 is the worst case among ANT1, ANT2, ANT3 and ANT4;

MIMO mode: ANT1 & ANT2 & ANT3 & ANT4 is the worst case.

Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



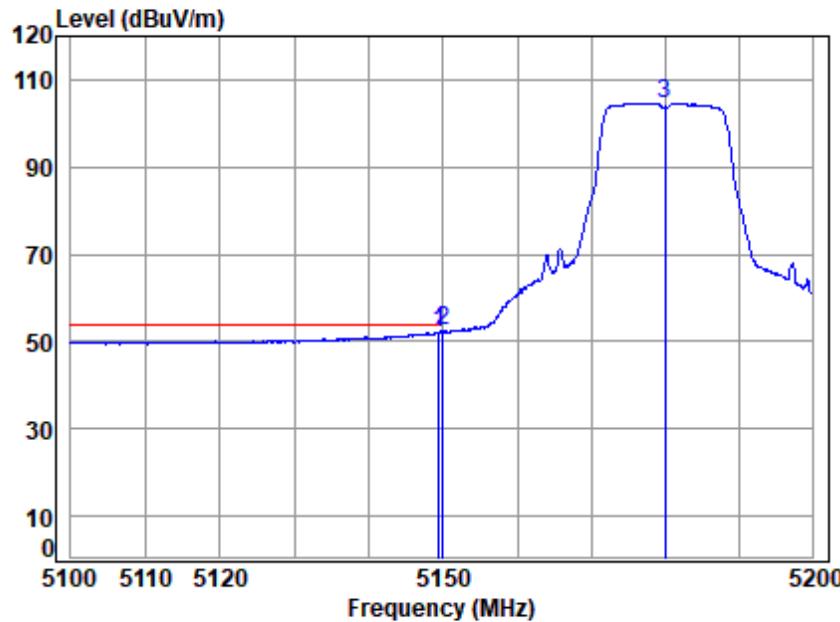
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR&08719CR
Mode : 5180 Band edge
: 5G WIFI 11A
: 1TX

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.058	7.57	34.32	42.79	64.78	63.88	74.00	-10.12 peak
2	5149.980	7.57	34.32	42.79	60.63	59.73	74.00	-14.27 peak
3 *	5180.000	7.63	34.35	42.77	112.36	111.57	68.20	43.37 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



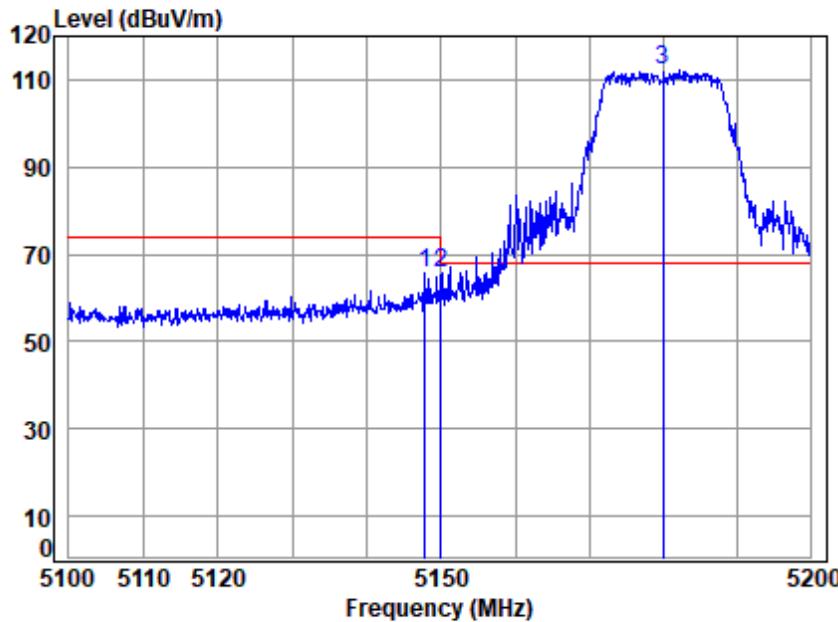
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR&08719CR
Mode : 5180 Band edge
: 5G WIFI 11A
: 1TX

	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	5149.458	7.57	34.32	42.79	53.12	52.22	54.00	-1.78 Average
2	5149.980	7.57	34.32	42.79	53.24	52.34	54.00	-1.66 Average
3	5180.000	7.63	34.35	42.77	105.39	104.60	-----	----- Average

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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



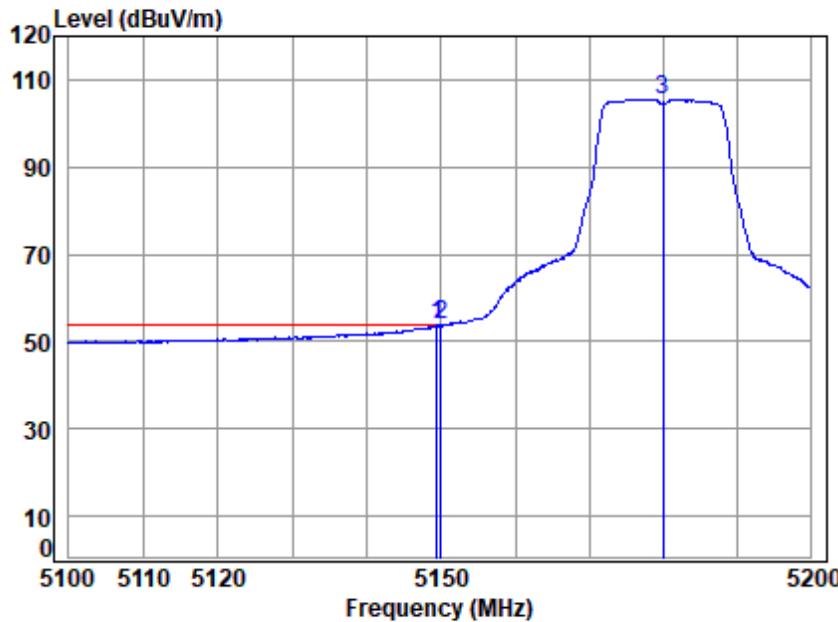
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR&08719CR
Mode : 5180 Band edge
: 5G WIFI 11A
: 1TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5147.857	7.57	34.32	42.79	66.41	65.51	74.00	-8.49 peak
2	5149.980	7.57	34.32	42.79	66.45	65.55	74.00	-8.45 peak
3 *	5180.000	7.63	34.35	42.77	113.00	112.21	68.20	44.01 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR&08719CR
Mode : 5180 Band edge
: 5G WIFI 11A
: 1TX

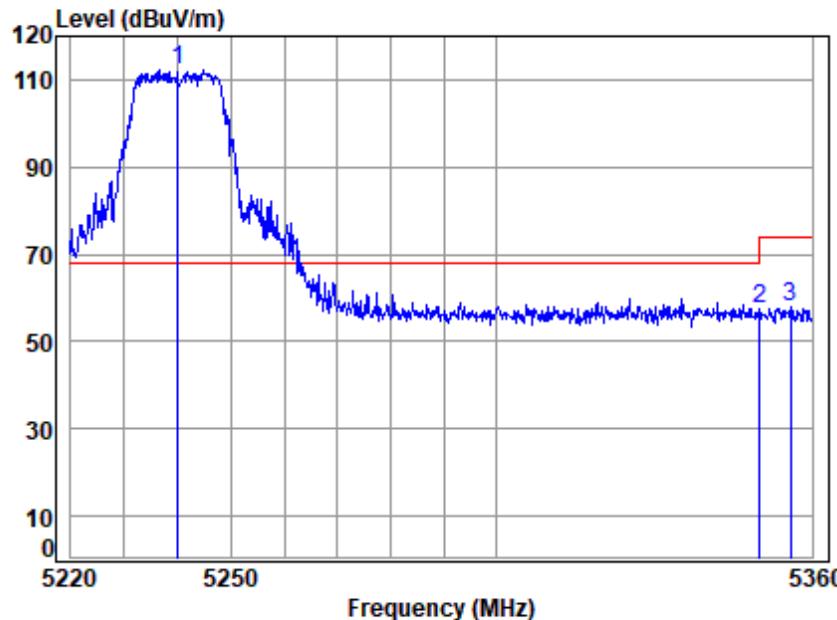
	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.458	7.57	34.32	42.79	54.67	53.77	54.00	-0.23 Average
2	5149.980	7.57	34.32	42.79	54.60	53.70	54.00	-0.30 Average
3	5180.000	7.63	34.35	42.77	106.21	105.42	-----	----- Average

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



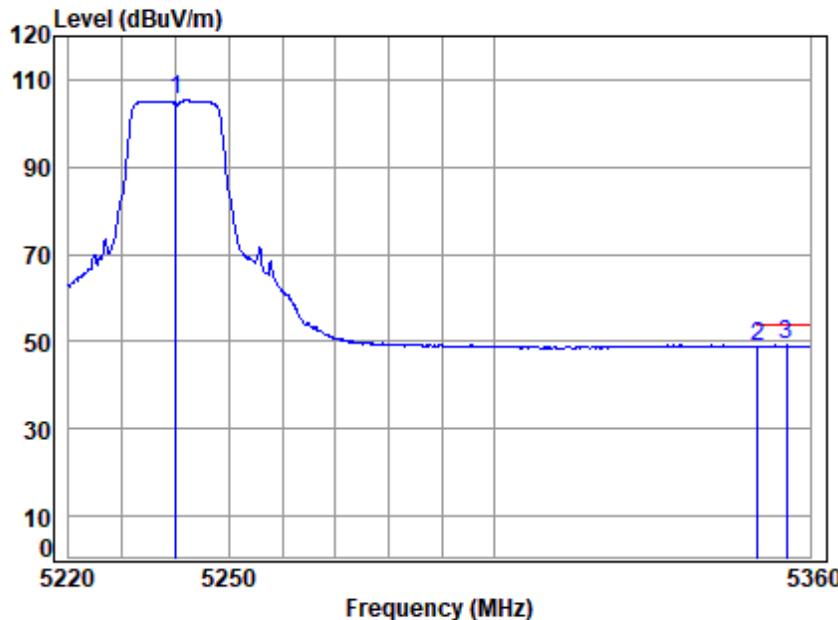
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR&08719CR
Mode : 5240 Band edge
: 5G WIFI 11A
: 1TX

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dB
1 * 5240.000	7.73	34.40	42.73	112.62	112.02	68.20	43.82 peak
2 5350.020	7.92	34.48	42.66	57.79	57.53	74.00	-16.47 peak
3 5355.888	7.93	34.49	42.65	58.36	58.13	74.00	-15.87 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



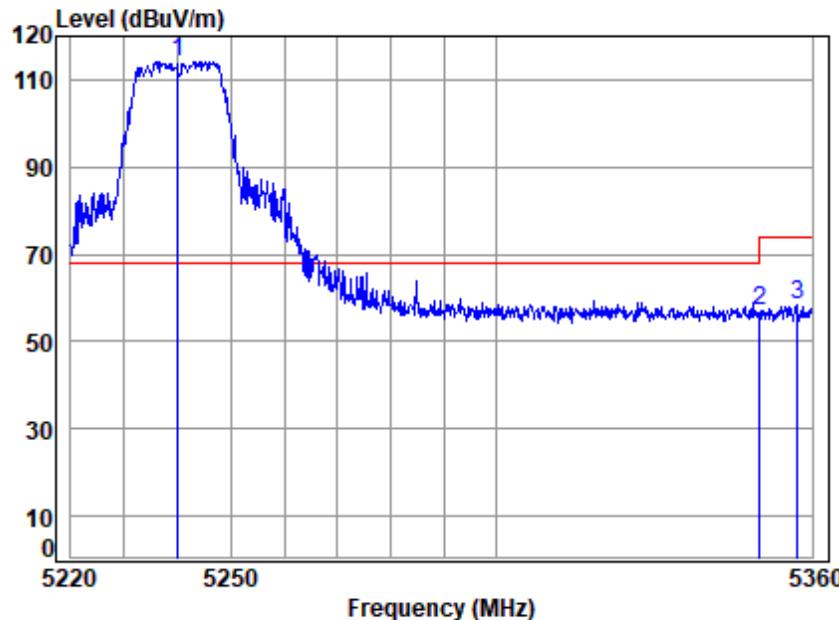
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR&08719CR
Mode : 5240 Band edge
: 5G WIFI 11A
: 1TX

	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	5240.000	7.73	34.40	42.73	105.88	105.28	-----	Average
2	5350.020	7.92	34.48	42.66	49.30	49.04	54.00	-4.96 Average
3	5355.462	7.93	34.49	42.65	49.33	49.10	54.00	-4.90 Average

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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR&08719CR
Mode : 5240 Band edge
: 5G WIFI 11A
: 1TX

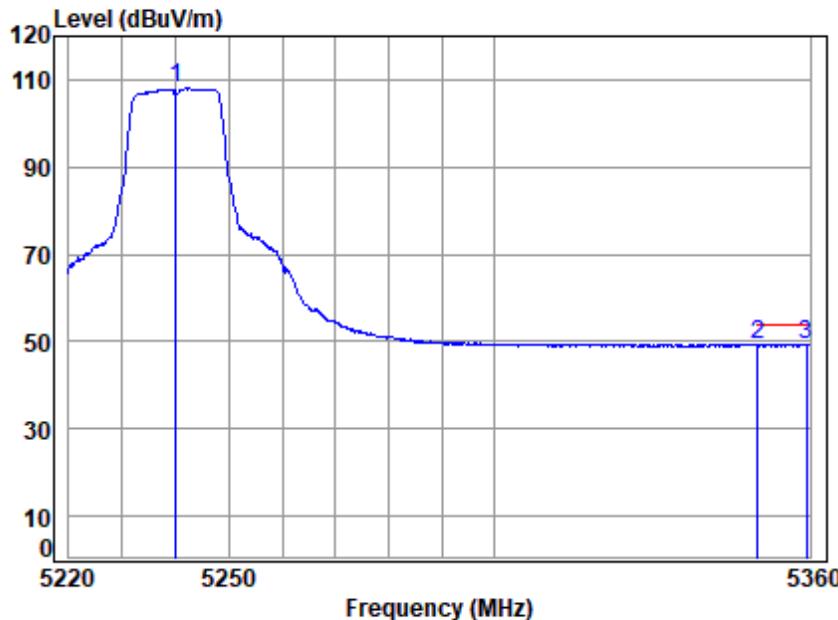
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m		dB	dBuV	dBuV/m	dB
1 * 5240.000	7.73	34.40	42.73	114.87	114.27	68.20	46.07 peak
2 5350.020	7.92	34.48	42.66	57.07	56.81	74.00	-17.19 peak
3 5357.305	7.94	34.49	42.65	58.75	58.53	74.00	-15.47 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



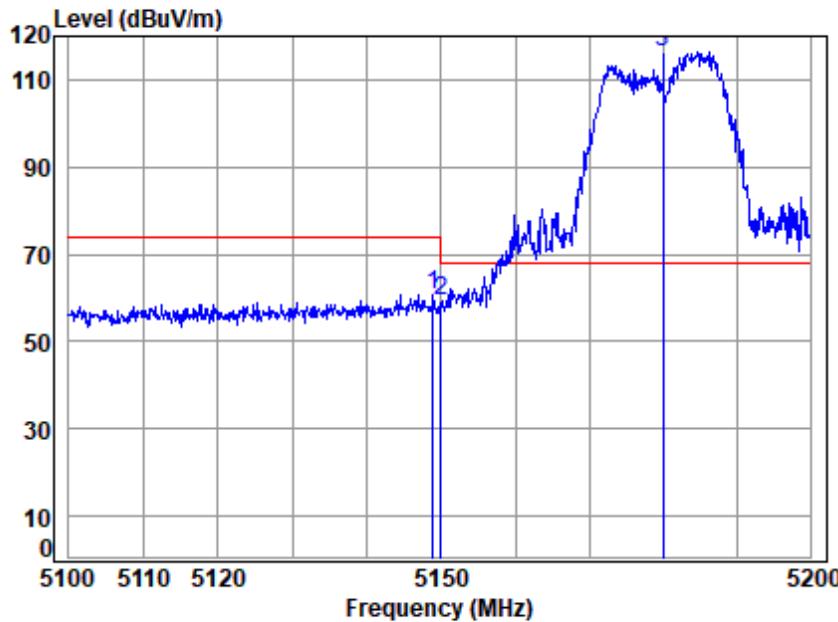
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR&08719CR
Mode : 5240 Band edge
: 5G WIFI 11A
: 1TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	7.73	34.40	42.73	108.57	107.97	-----	Average
2	5350.020	7.92	34.48	42.66	49.53	49.27	54.00	-4.73 Average
3	5359.291	7.94	34.49	42.65	49.64	49.42	54.00	-4.58 Average

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



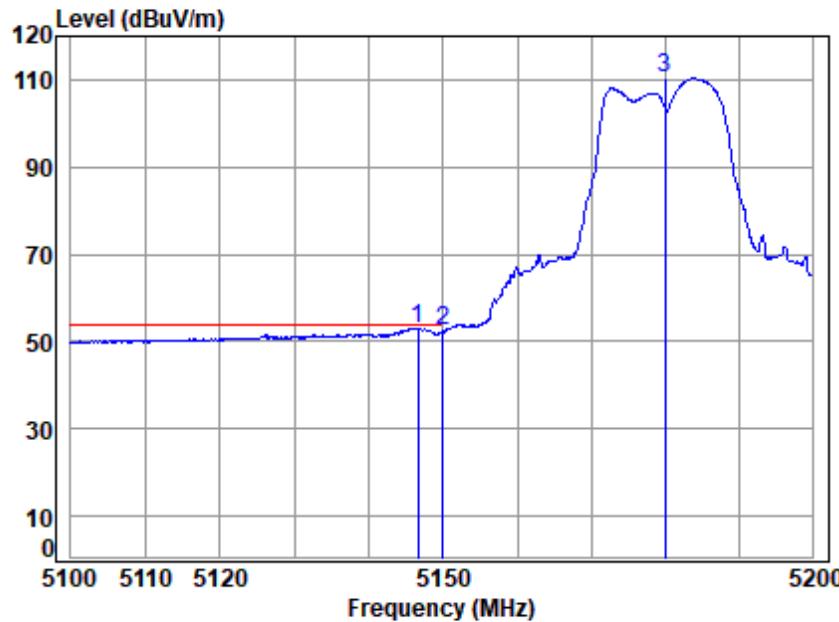
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR&08719CR
Mode : 5180 Band edge
: 5G WIFI 11A
: 4TX

	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	5148.857	7.57	34.32	42.79	61.72	60.82	74.00	-13.18 peak
2	5149.980	7.57	34.32	42.79	60.09	59.19	74.00	-14.81 peak
3 *	5180.000	7.63	34.35	42.77	117.10	116.31	68.20	48.11 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR&08719CR
Mode : 5180 Band edge
: 5G WIFI 11A
: 4TX

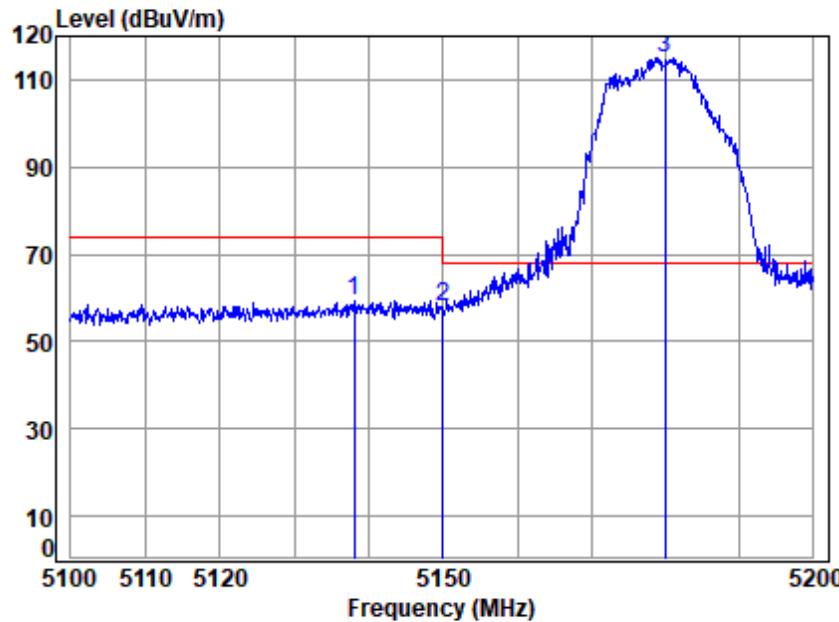
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5146.658	7.57	34.32	42.80	53.74	52.83	54.00	-1.17 Average
2	5149.980	7.57	34.32	42.79	53.44	52.54	54.00	-1.46 Average
3	5180.000	7.63	34.35	42.77	111.07	110.28	-----	----- Average

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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



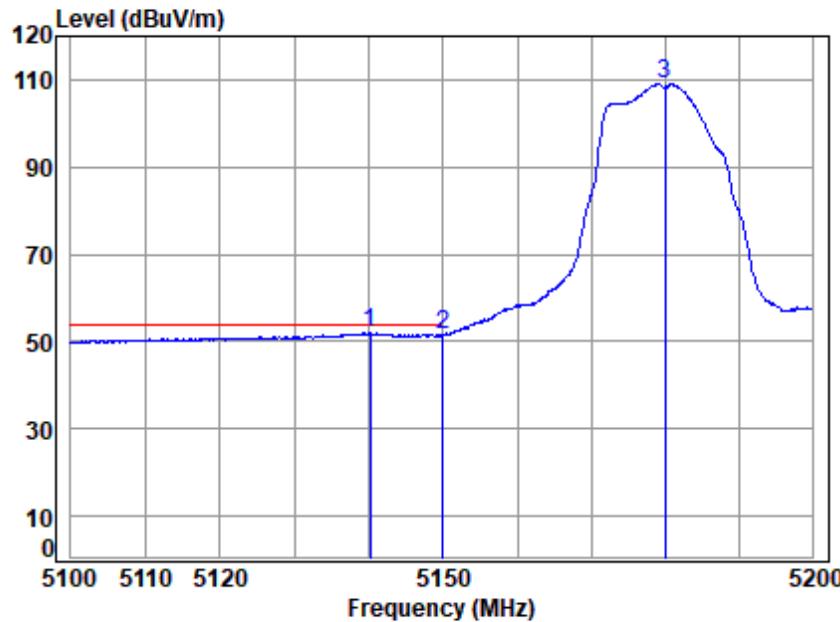
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR&08719CR
Mode : 5180 Band edge
: 5G WIFI 11A
: 4TX

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5138.071	7.55	34.31	42.80	60.29	59.35	74.00	-14.65 peak
2	5149.980	7.57	34.32	42.79	59.06	58.16	74.00	-15.84 peak
3 *	5180.000	7.63	34.35	42.77	115.90	115.11	68.20	46.91 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



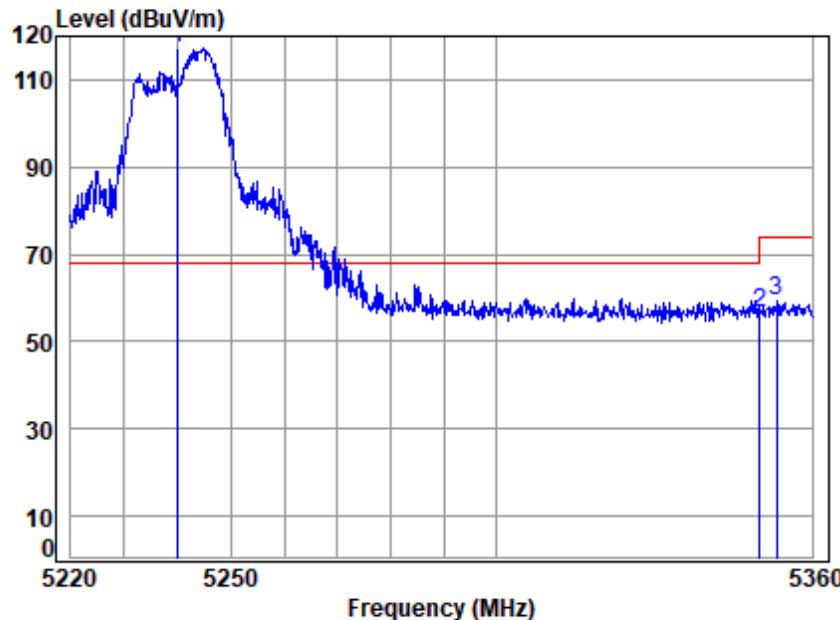
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR&08719CR
Mode : 5180 Band edge
: 5G WIFI 11A
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5140.167	7.56	34.32	42.80	52.82	51.90	54.00	-2.10 Average
2	5149.980	7.57	34.32	42.79	52.48	51.58	54.00	-2.42 Average
3	5180.000	7.63	34.35	42.77	109.77	108.98	-----	----- Average

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



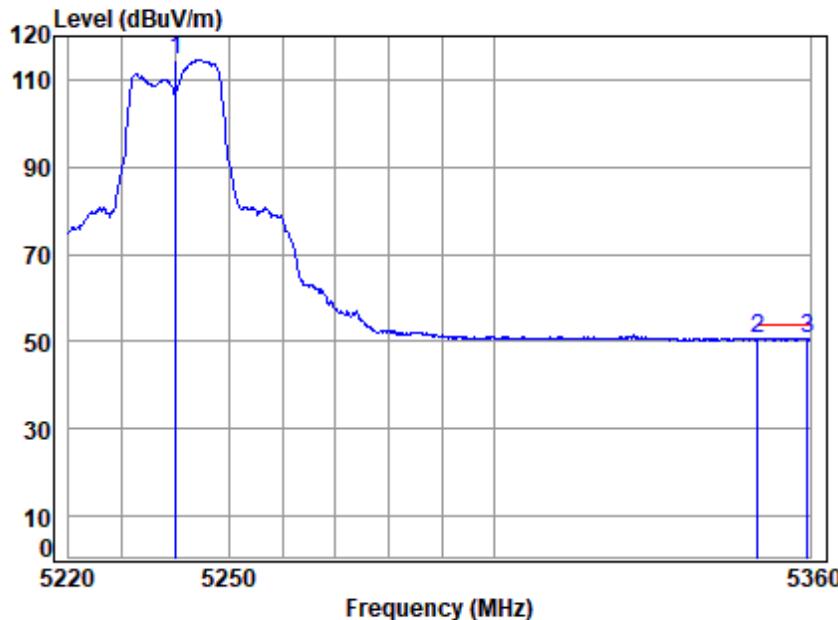
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR&08719CR
Mode : 5240 Band edge
: 5G WIFI 11A
: 4TX

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dB
1 * 5240.000	7.74	34.40	42.73	117.67	117.08	68.20	48.88 Peak
2 5350.020	7.92	34.48	42.66	56.93	56.67	74.00	-17.33 peak
3 5353.195	7.93	34.49	42.65	59.68	59.45	74.00	-14.55 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



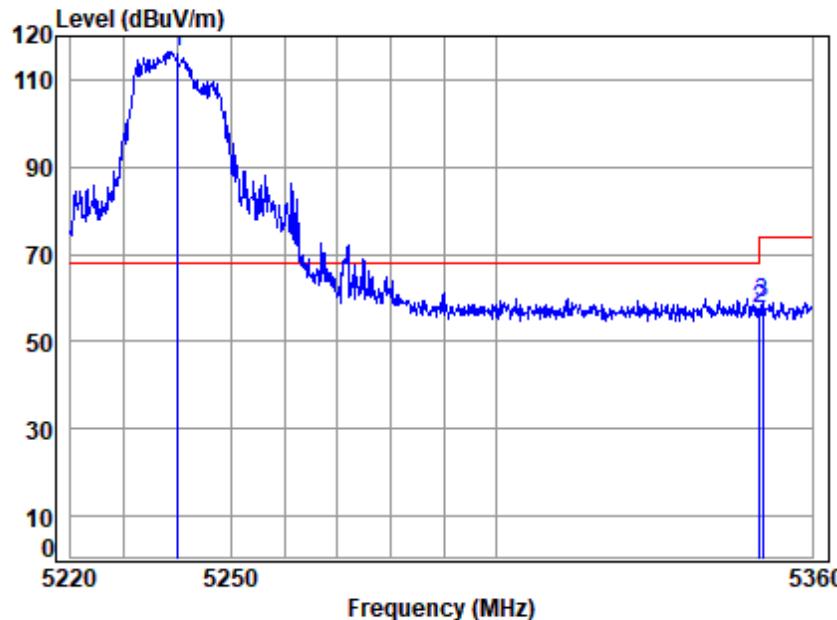
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR&08719CR
Mode : 5240 Band edge
: 5G WIFI 11A
: 4TX

	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	5240.000	7.74	34.40	42.73	115.24	114.65	-----	Average
2	5350.020	7.92	34.48	42.66	50.99	50.73	54.00	-3.27 Average
3	5359.433	7.94	34.49	42.65	51.03	50.81	54.00	-3.19 Average

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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



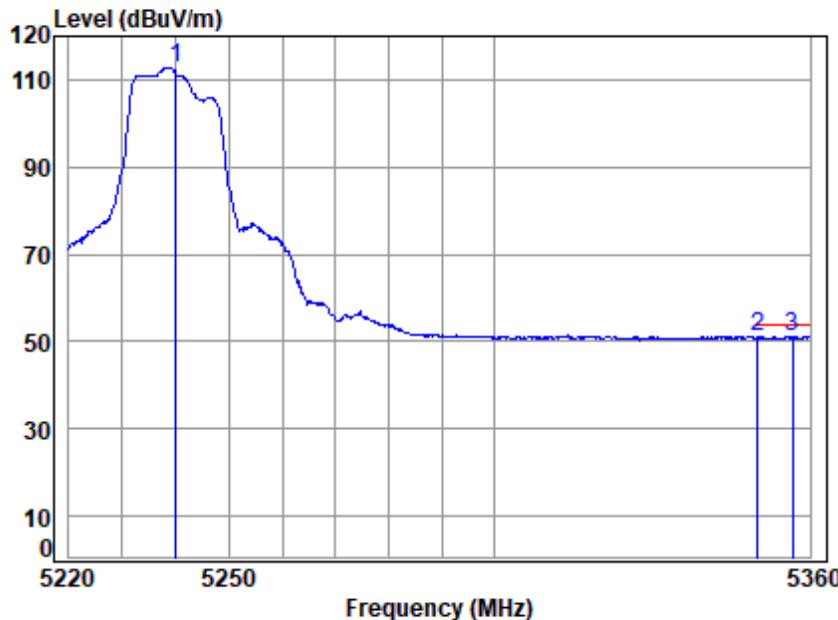
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR&08719CR
Mode : 5240 Band edge
: 5G WIFI 11A
: 4TX

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 * 5240.000	7.73	34.40	42.73	117.10	116.50	68.20	48.30 Peak
2 5350.020	7.92	34.48	42.66	57.81	57.55	74.00	-16.45 peak
3 5350.646	7.93	34.48	42.65	59.13	58.89	74.00	-15.11 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



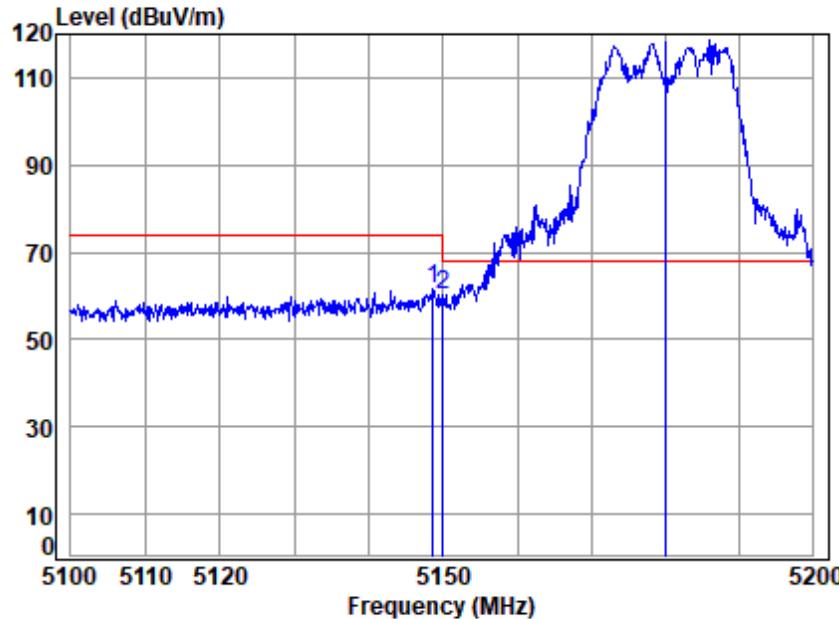
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR&08719CR
Mode : 5240 Band edge
: 5G WIFI 11A
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	7.73	34.40	42.73	113.28	112.68	-----	Average
2	5350.020	7.92	34.48	42.66	51.14	50.88	54.00	-3.12 Average
3	5356.596	7.94	34.49	42.65	51.21	50.99	54.00	-3.01 Average

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



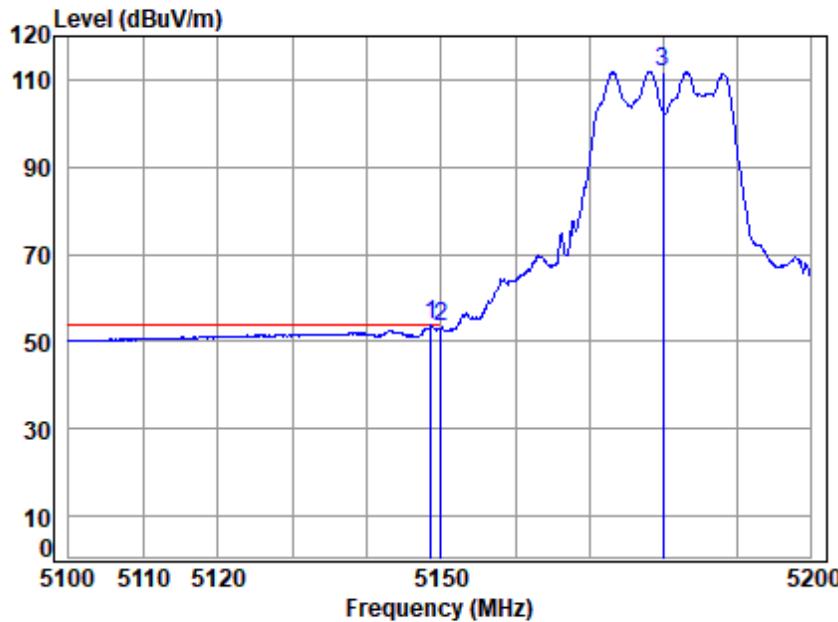
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR&08719CR
Mode : 5180 Band edge
: 5G WIFI 11N20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5148.558	7.57	34.32	42.79	62.32	61.42	74.00	-12.58 peak
2 5149.980	7.57	34.32	42.79	61.32	60.42	74.00	-13.58 peak
3 * 5180.000	7.63	34.35	42.77	119.20	118.41	68.20	50.21 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



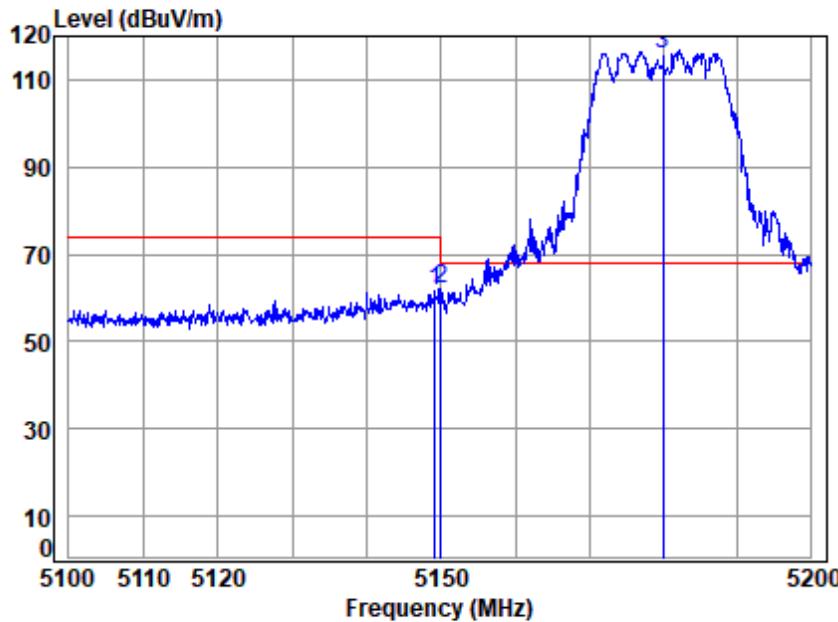
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR&08719CR
Mode : 5180 Band edge
: 5G WIFI 11N20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.558	7.57	34.32	42.79	54.55	53.65	54.00	-0.35 Average
2	5149.980	7.57	34.32	42.79	54.24	53.34	54.00	-0.66 Average
3	5180.000	7.63	34.35	42.77	112.61	111.82	-----	----- Average

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



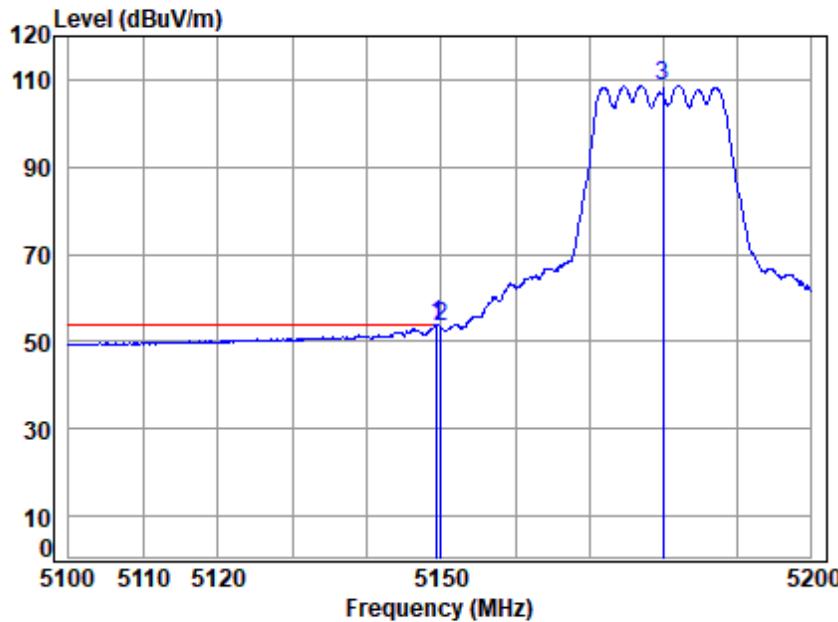
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR&08719CR
Mode : 5180 Band edge
: 5G WIFI 11N20
: 4TX

		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	5149.157	7.57	34.32	42.79	62.30	61.40	74.00	-12.60	peak
2	5149.980	7.57	34.32	42.79	62.85	61.95	74.00	-12.05	peak
3 *	5180.000	7.63	34.35	42.77	116.58	115.79	68.20	47.59	peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR&08719CR
Mode : 5180 Band edge
: 5G WIFI 11N20
: 4TX

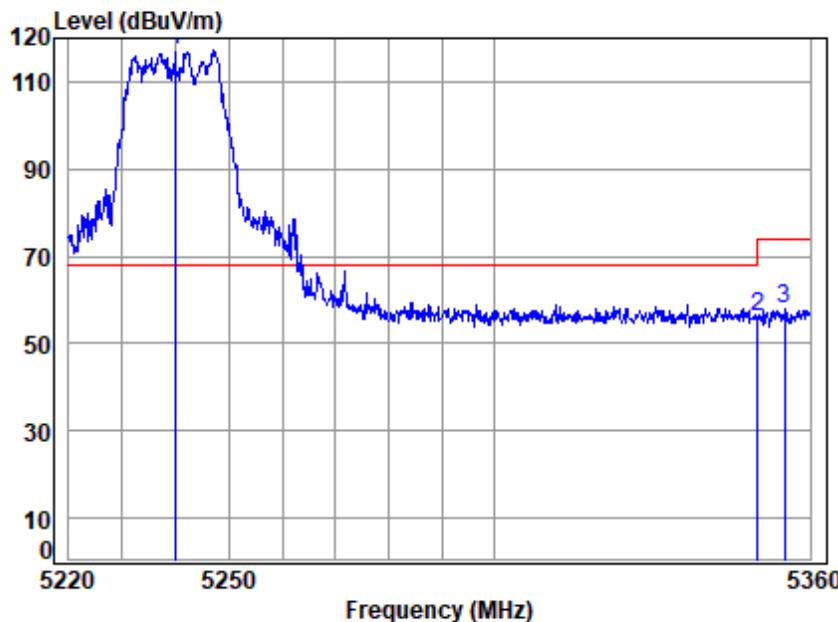
	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.458	7.57	34.32	42.79	54.67	53.77	54.00	-0.23 Average
2	5149.980	7.57	34.32	42.79	54.32	53.42	54.00	-0.58 Average
3	5180.000	7.63	34.35	42.77	109.42	108.63	-----	----- Average

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR&08719CR
Mode : 5240 Band edge
: 5G WIFI 11N20
: 4TX

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dB
1 * 5240.000	7.73	34.40	42.73	117.91	117.31	68.20	49.11 peak
2 5350.020	7.92	34.48	42.66	56.34	56.08	74.00	-17.92 peak
3 5355.179	7.93	34.49	42.65	58.32	58.09	74.00	-15.91 peak

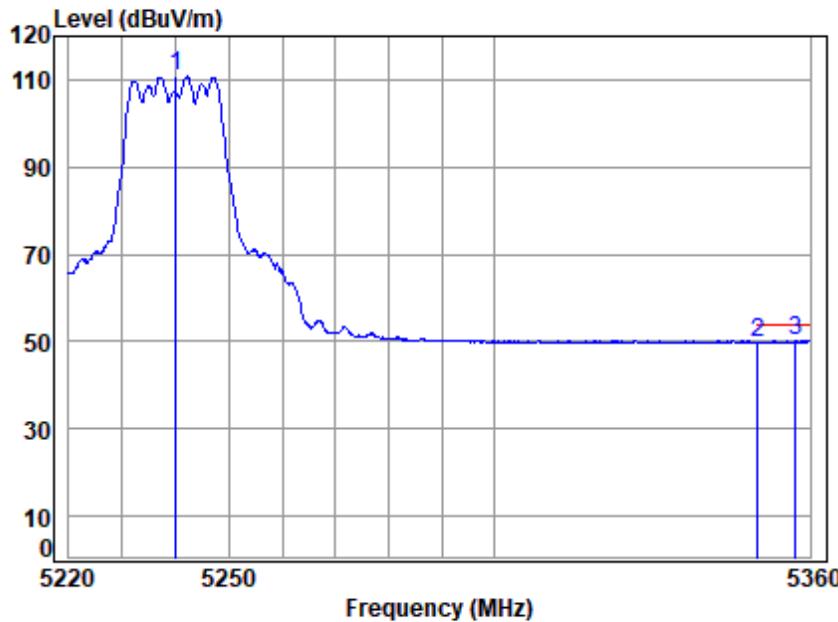
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



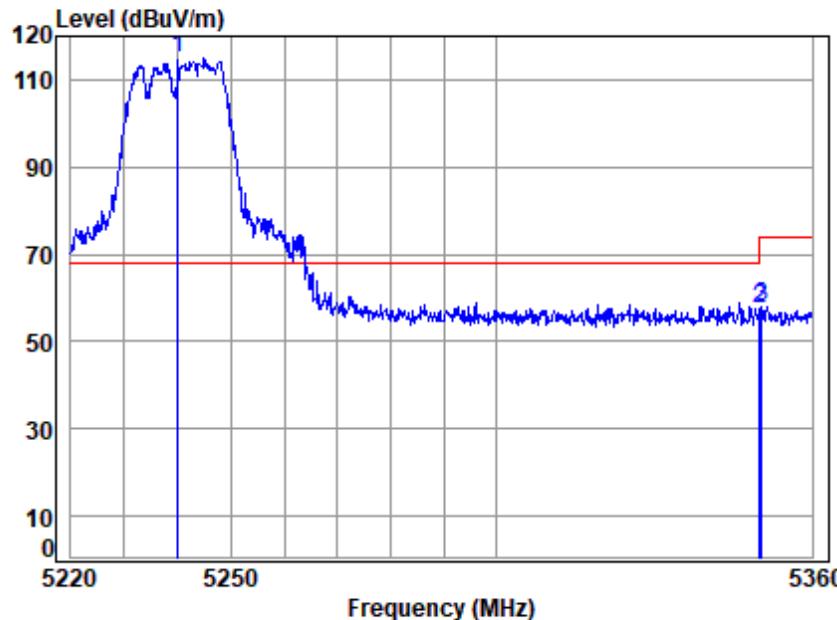
Site : chamber
Condition: 3m VERTICAL
Job No : 08718CR&08719CR
Mode : 5240 Band edge
: 5G WIFI 11N20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	7.73	34.40	42.73	111.27	110.67	----- Average
2	5350.020	7.92	34.48	42.66	50.19	49.93	54.00 -4.07 Average
3	5357.305	7.94	34.49	42.65	50.36	50.14	54.00 -3.86 Average

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



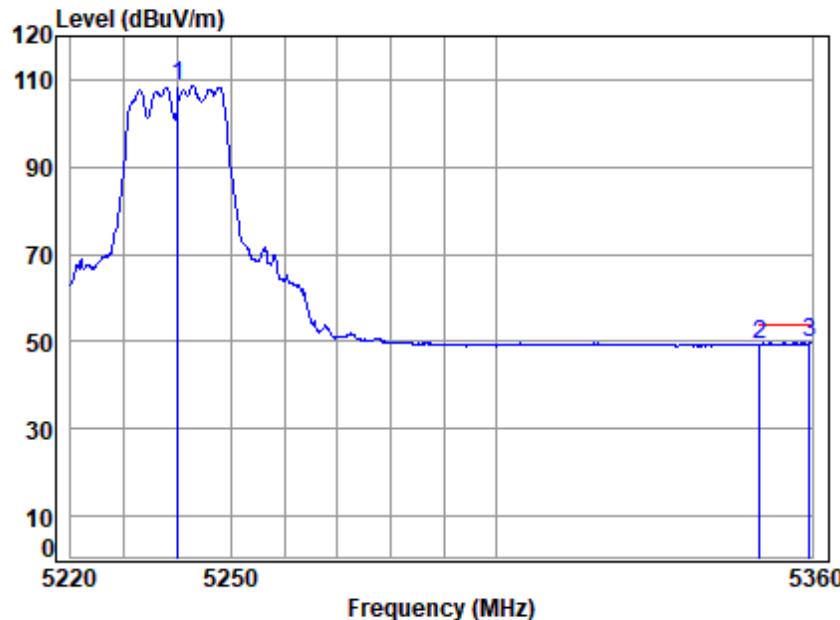
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR&08719CR
Mode : 5240 Band edge
: 5G WIFI 11N20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 * 5240.000	7.73	34.40	42.73	115.49	114.89	68.20	46.69 peak
2 5350.020	7.92	34.48	42.66	57.75	57.49	74.00	-16.51 peak
3 5350.362	7.93	34.48	42.66	58.08	57.83	74.00	-16.17 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



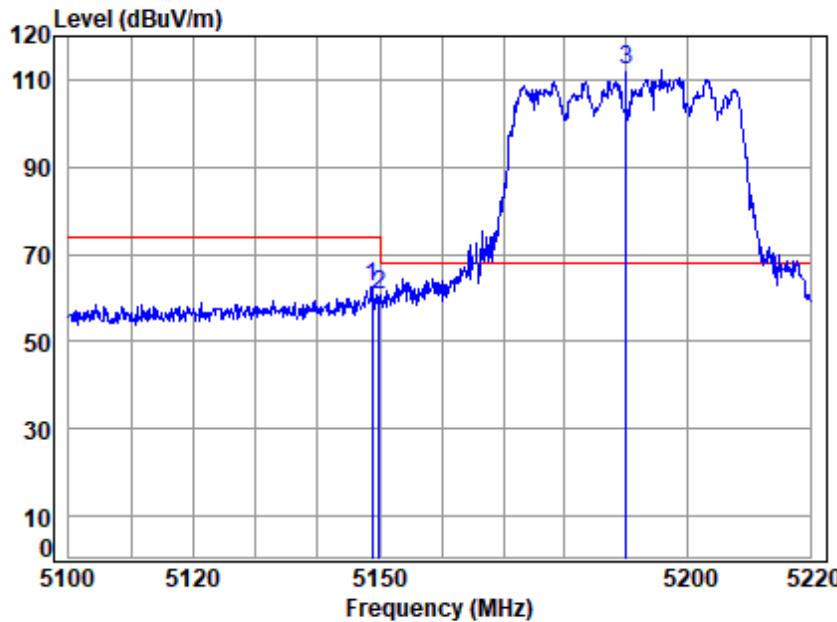
Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR&08719CR
Mode : 5240 Band edge
: 5G WIFI 11N20
: 4TX

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	7.73	34.40	42.73	109.11	108.51	-----	Average
2	5350.020	7.92	34.48	42.66	49.73	49.47	54.00	-4.53 Average
3	5359.574	7.94	34.49	42.65	49.91	49.69	54.00	-4.31 Average

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 08718CR&08719CR
Mode : 5190 Band edge
: 5G WIFI 11N40
: 4TX

	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	5148.743	7.57	34.32	42.79	63.42	62.52	74.00	-11.48 peak
2	5149.980	7.57	34.32	42.79	61.68	60.78	74.00	-13.22 peak
3 *	5190.000	7.64	34.36	42.77	112.93	112.16	68.20	43.96 peak

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