



Report No.: SZEM200800808801  
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## TEST REPORT

Application No.:	SZEM2008008088CR
Applicant:	Shenzhen ImagineVision Technology Limited
Address of Applicant:	1A, F5, TCL International E City, 1001 Zhong Shan Park Road, Nan Shan, Shenzhen, China
Manufacturer:	Shenzhen ImagineVision Technology Limited
Address of Manufacturer:	1A, F5, TCL International E City, 1001 Zhong Shan Park Road, Nan Shan, Shenzhen, China
Factory:	HUNAN FN-LINK TECHNOLOGY LIMITED
Address of Factory:	No.8, LiTong Road, Liuyang Economic and Technological Development Zone, Liuyang City, Changsha City, Hunan Province, P.R. China
Equipment Under Test (EUT):	
EUT Name:	Z CAM USB WIFI 5G Module
Model No.:	WIFIM5G01
Trade mark:	Z CAM
FCC ID:	2AENNWF5G01
Standard(s) :	47 CFR Part 15, Subpart E 15.407
Date of Receipt:	2020-08-18
Date of Test:	2020-08-24 to 2020-09-08
Date of Issue:	2020-09-08
Test Result:	Pass*

\* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu  
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.  
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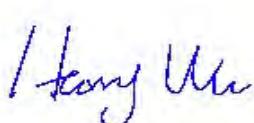
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**Revision Record**

<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
01		2020-09-08		Original

Authorized for issue by:

		 <hr/> Harry Wu/Project Engineer		
		 <hr/> Eric Fu/Reviewer		

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## 2 Test Summary

<b>Radio Spectrum Technical Requirement</b>				
<b>Item</b>	<b>Standard</b>	<b>Method</b>	<b>Requirement</b>	<b>Result</b>
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

<b>Radio Spectrum Matter Part</b>				
<b>Item</b>	<b>Standard</b>	<b>Method</b>	<b>Requirement</b>	<b>Result</b>
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.

Rated voltage:	DC5.0V			
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band 1	IEEE 802.11a	5180-5240	4
		IEEE 802.11n 20MHz	5180-5240	4
		IEEE 802.11n 40MHz	5190-5230	2
	UNII Band 3	IEEE 802.11a	5745-5825	5
		IEEE 802.11n 20MHz	5745-5825	5
		IEEE 802.11n 40MHz	5755-5795	2
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM);			
Channel Spacing:	802.11a/n(HT20): 20MHz; 802.11n(HT40): 40MHz;			
DFS Function:	Slave without Radar detection			
TPC Function:	Without TPC function			
Antenna Type:	Dipole Antenna & Mushroom Antenna			
Antenna Gain:	Antenna 1&2: 3.45dBi for Dipole Antenna, 3.89dBi for Mushroom Antenna			
Remark:	Three types Antennas (refer to internal photos) were tested, only the worst Antennas were recorded in the report.			

### 4.2 Description of Support Units

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

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### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.0dB (150kHz to 30MHz)
Duty Cycle	± 0.37%
99% Bandwidth	± 3%
26dB Emission bandwidth	± 3%
Minimum 6 dB bandwidth (5.725-5.85 GHz band )	± 3%
Maximum Conducted output power	± 0.75dB
Peak Power spectrum density	± 2.84dB
Radiated Emissions	± 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 <sup>-8</sup>

Remark:

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

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

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#### **4.4 Test Location**

All tests were performed at:

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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
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2020-03-24	2021-03-23
Switch	WEINSCHEL ENGINEERING	1506A	SEN009-01	N/A	N/A
Matching Pad	anzac	PT-75	SEN009-02	N/A	N/A
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09
LISN	Rohde&Schwarz	ENV216	SEM007-01	2019-09-24	2020-09-23
LISN	ETS-LINDGREN	3816/2	SEM007-02	2020-04-01	2021-03-31

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	2019-09-28	2020-09-27
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	2019-09-28	2020-09-27
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	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-28	2020-09-27
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	2020-05-21	2021-05-20
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2020-03-25	2021-03-24

**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	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-28	2020-09-27
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	2020-05-21	2021-05-20
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2020-03-25	2021-03-24

**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	2019-09-28	2020-09-27
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
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-28	2020-09-27
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	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
EXA Signal 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
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09

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**Radiated 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 Emissions(Above 1GHz)**

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
EXA Signal 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
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09

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Frequency Stability					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-28	2020-09-27
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	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	2020-09-25
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25
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 an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna used for this product is external antenna. The worst case gain of the antennas are 3.45dBi for Dipole Antenna, 3.89dBi for Mushroom Antenna.

Antenna location: Refer to Appendix(Internal photos).

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## 6.2 Transmission in the Absence of Data

### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407

### 6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details:

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



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## 7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)  
Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

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

\*Decreases with the logarithm of the frequency.

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

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1000 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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). Only the data of worst case is recorded in the report.
Pre-scan	01	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). Only the data of worst case is recorded in the report.

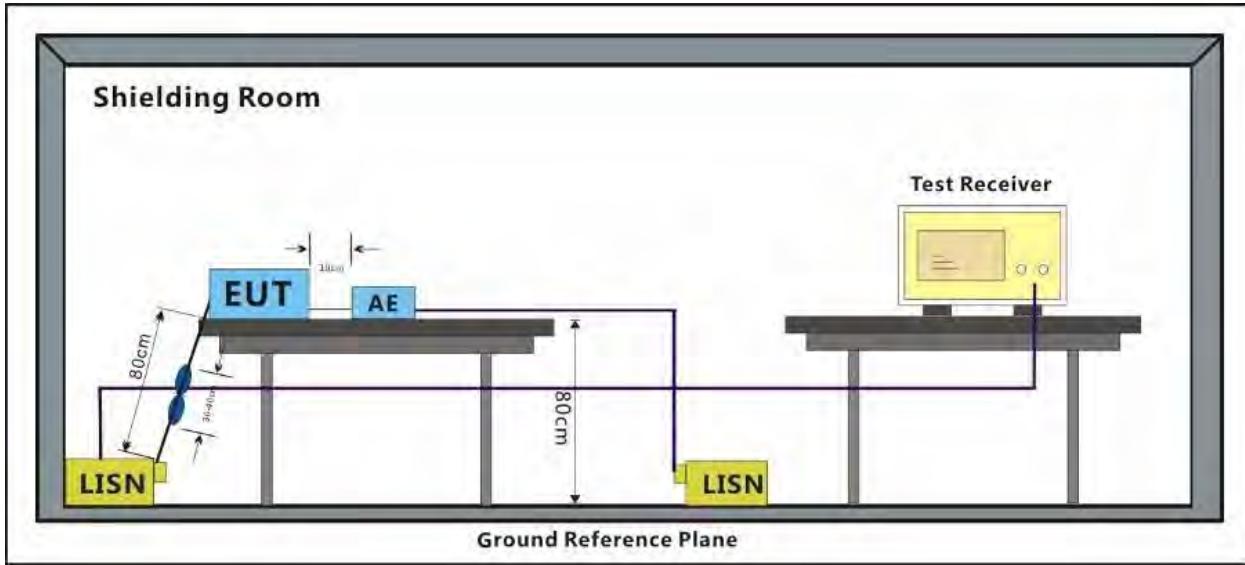
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### 7.1.3 Test Setup Diagram



#### **7.1.4 Measurement Procedure and Data**

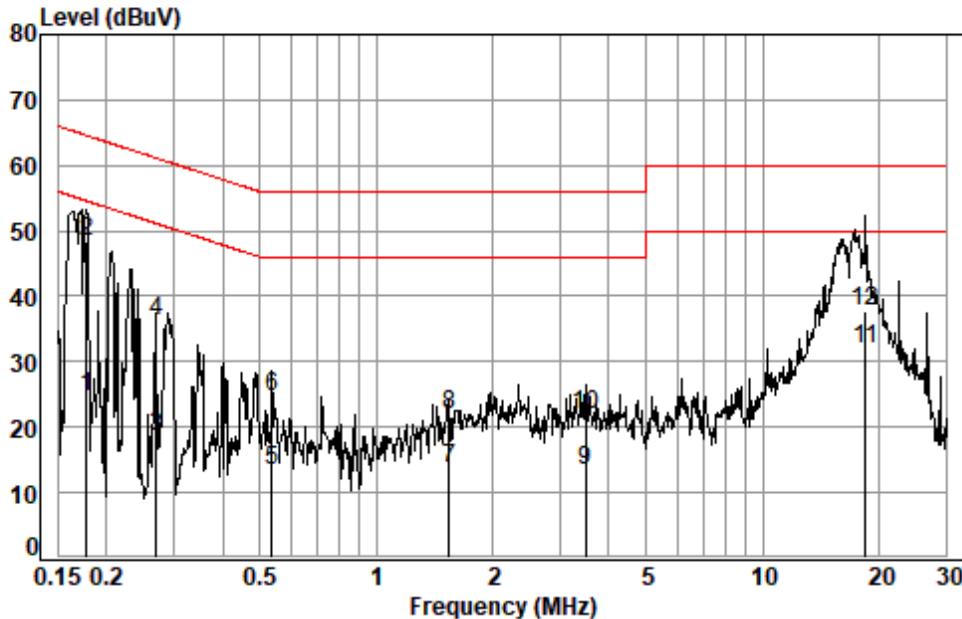
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
  - 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 50hm linear impedance. The power cables of all other units of the EUT were connected 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: 00; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 08088CR

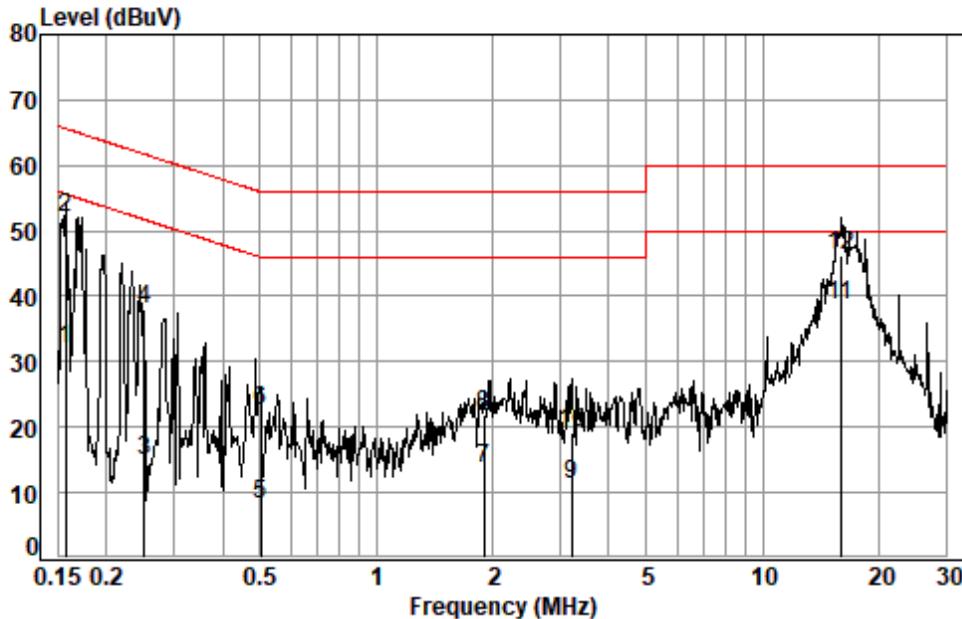
Test mode: 00

	Cable	LISN	Read	Limit		Over	Remark
	Freq	Loss	Factor	Level	Level	Line	
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.1777	0.02	9.68	14.90	24.60	54.59	-29.99 Average
2	0.1777	0.02	9.68	38.58	48.28	64.59	-16.31 QP
3	0.2687	0.03	9.68	8.73	18.44	51.16	-32.72 Average
4	0.2687	0.03	9.68	26.63	36.34	61.16	-24.82 QP
5	0.5378	0.06	9.69	3.54	13.29	46.00	-32.71 Average
6	0.5378	0.06	9.69	15.01	24.76	56.00	-31.24 QP
7	1.5436	0.13	9.72	3.92	13.77	46.00	-32.23 Average
8	1.5436	0.13	9.72	12.13	21.98	56.00	-34.02 QP
9	3.4906	0.16	9.78	3.41	13.35	46.00	-32.65 Average
10	3.4906	0.16	9.78	11.92	21.86	56.00	-34.14 QP
11	18.5237	0.23	10.84	20.74	31.81	50.00	-18.19 Average
12	18.5237	0.23	10.84	26.70	37.77	60.00	-22.23 QP

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Test Mode: 00; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 08088CR

Test mode: 00

	Freq	Cable	LISN	Read	Limit		Over	Remark
		Loss	Factor	Level	Level	Line	Limit	
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1573	0.01	9.67	22.20	31.88	55.60	-23.72	Average
2	0.1573	0.01	9.67	42.22	51.90	65.60	-13.70	QP
3	0.2508	0.03	9.66	5.22	14.91	51.73	-36.82	Average
4	0.2508	0.03	9.66	28.25	37.94	61.73	-23.79	QP
5	0.5020	0.06	9.67	-1.59	8.14	46.00	-37.86	Average
6	0.5020	0.06	9.67	12.78	22.51	56.00	-33.49	QP
7	1.8979	0.15	9.73	3.82	13.70	46.00	-32.30	Average
8	1.8979	0.15	9.73	11.95	21.83	56.00	-34.17	QP
9	3.2069	0.16	9.77	1.40	11.33	46.00	-34.67	Average
10	3.2069	0.16	9.77	9.31	19.24	56.00	-36.76	QP
11	15.9698	0.22	10.67	27.88	38.77	50.00	-11.23	Average
12	15.9698	0.22	10.67	35.49	46.38	60.00	-13.62	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

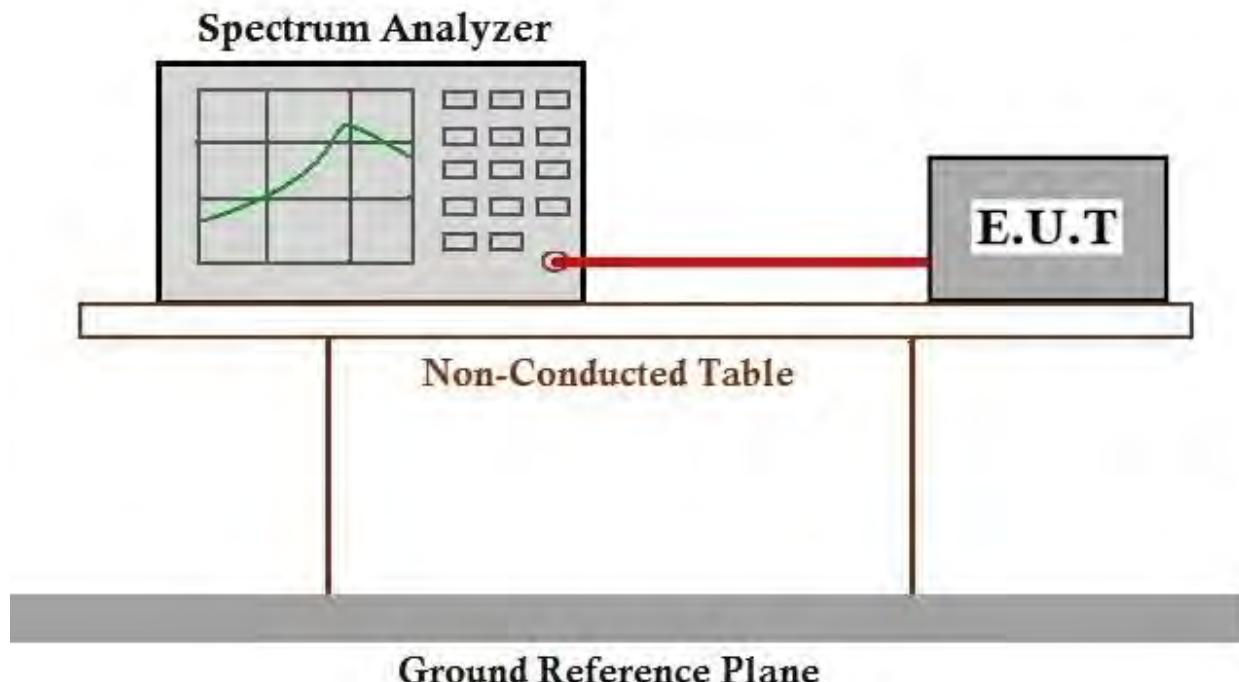
Operating Environment:

Temperature: 23.5 °C      Humidity: 56.3 % RH      Atmospheric Pressure: 1000 mbar

### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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), Only the data of worst case is recorded in the report.
Final test	01	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). Only the data of worst case is recorded in the report.

### 7.2.3 Test Setup Diagram



### 7.2.4 Measurement Procedure and Data

Please Refer To Appendix For Details

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### 7.3 99% Bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407

Test Method: KDB 789033 II D

#### 7.3.1 E.U.T. Operation

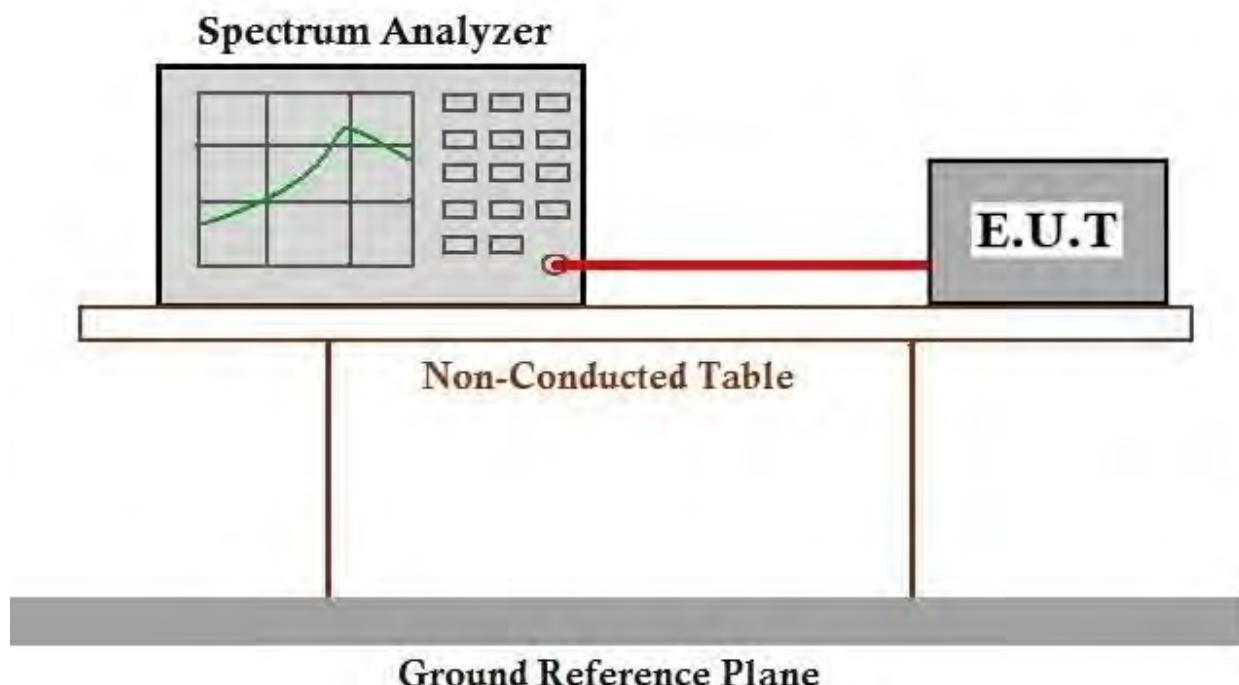
Operating Environment:

Temperature: 23.5 °C      Humidity: 56.3 % RH      Atmospheric Pressure: 1000 mbar

#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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), Only the data of worst case is recorded in the report.
Final test	01	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). Only the data of worst case is recorded in the report.

#### 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

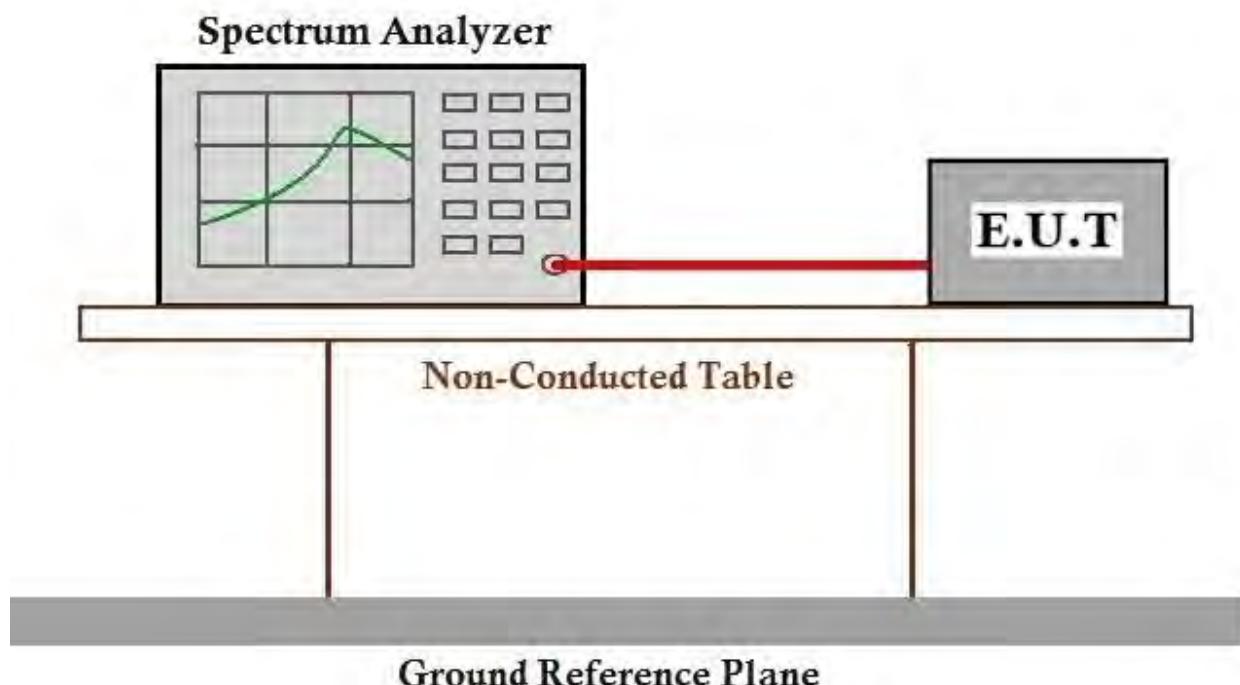
Operating Environment:

Temperature: 23.5 °C      Humidity: 56.3 % RH      Atmospheric Pressure: 1000 mbar

### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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), Only the data of worst case is recorded in the report.
Final test	01	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). Only the data of worst case is recorded in the report.

### 7.4.3 Test Setup Diagram



### 7.4.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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

Test Requirement 47 CFR Part 15, Subpart E 15.407

Test Method: KDB 789033 D02 II C 2

Limit:

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

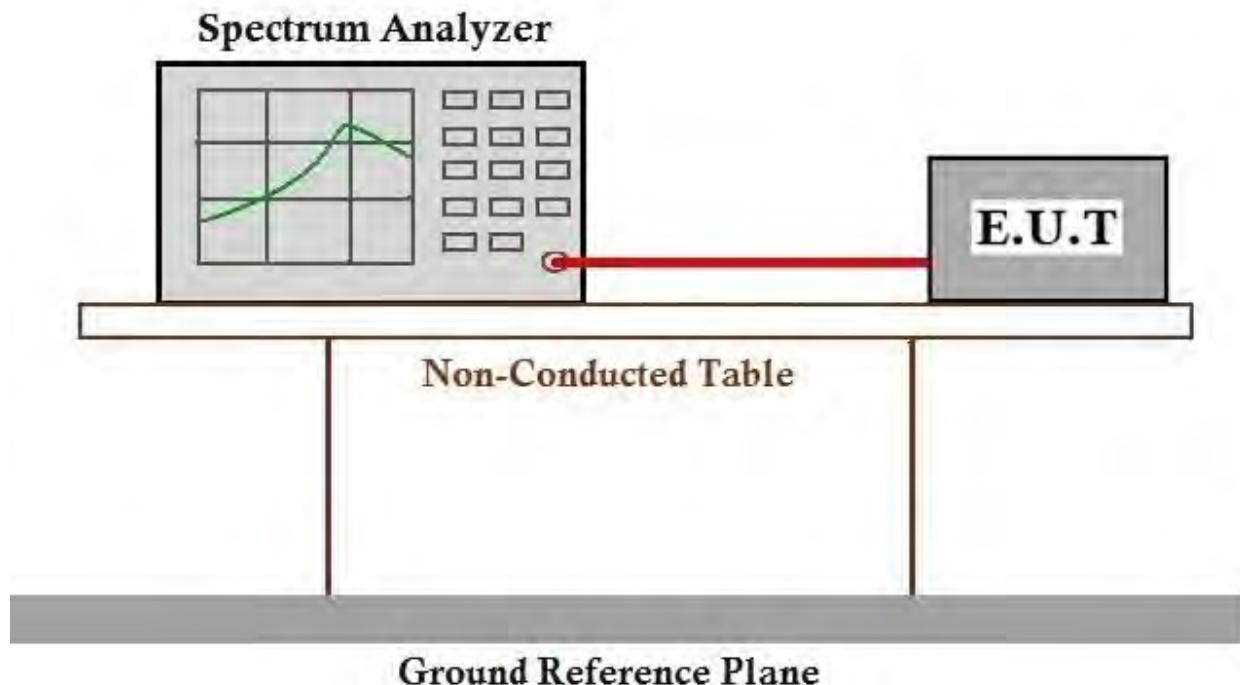
**7.5.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.5 °C      Humidity: 56.3 % RH      Atmospheric Pressure: 1000 mbar

**7.5.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	01	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). Only the data of worst case is recorded in the report.

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

Please Refer To Appendix For Details



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## 7.6 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407

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: 1000 mbar

### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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), Only the data of worst case is recorded in the report.
Final test	01	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). Only the data of worst case is recorded in the report.

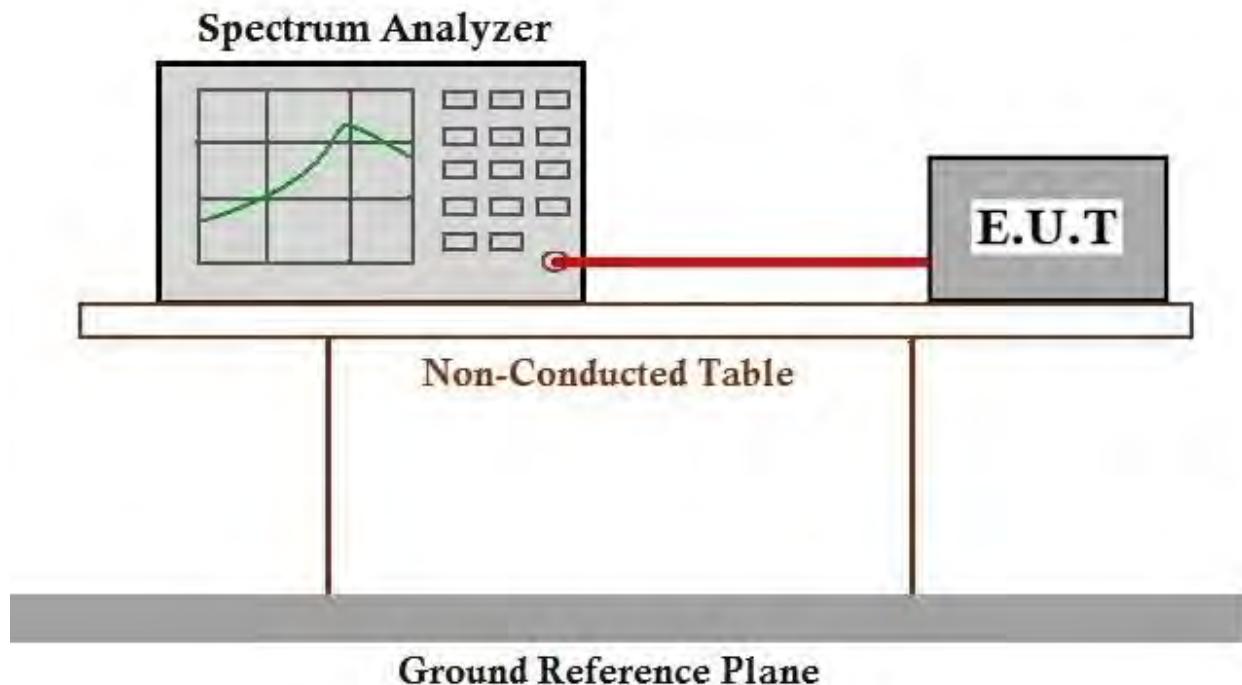
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**7.6.3 Test Setup Diagram****7.6.4 Measurement Procedure and Data**

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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: 56.3 % RH Atmospheric Pressure: 1000 mbar

### 7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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), Only the data of worst case is recorded in the report.
Final test	01	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). Only the data of worst case is recorded in the report.

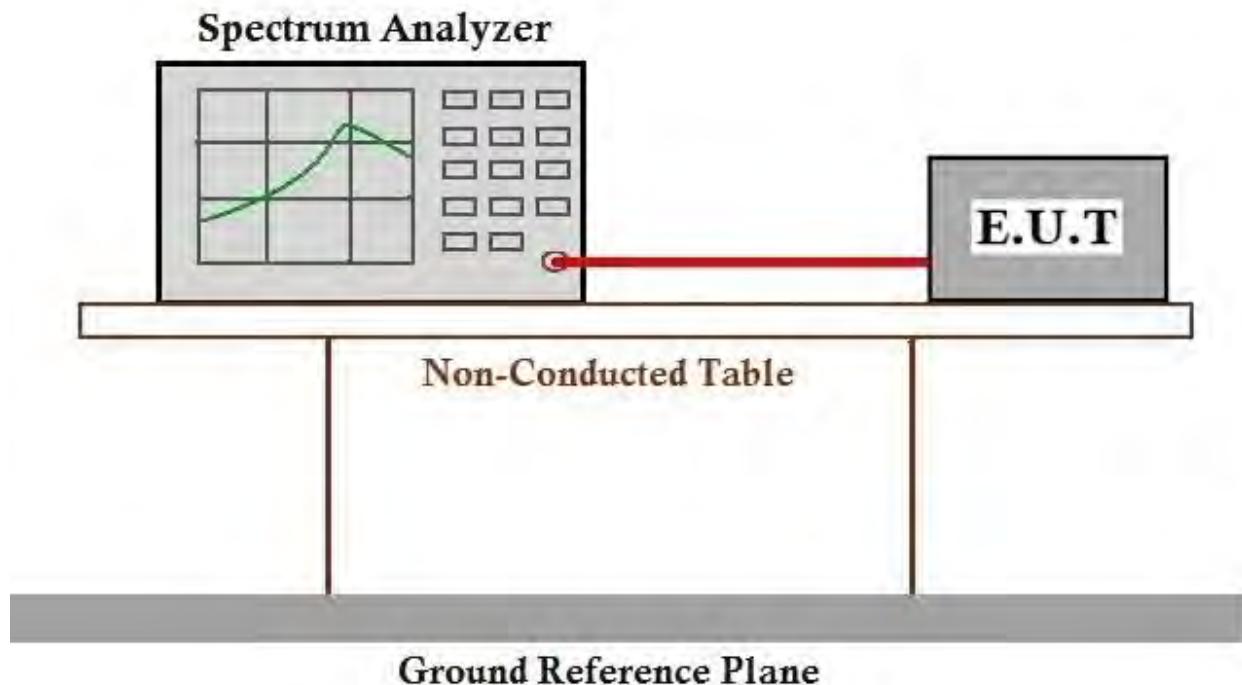
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**7.7.3 Test Setup Diagram****7.7.4 Measurement Procedure and Data**

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## 7.8 Radiated Emissions

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

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

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

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

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

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

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

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

Operating Environment:

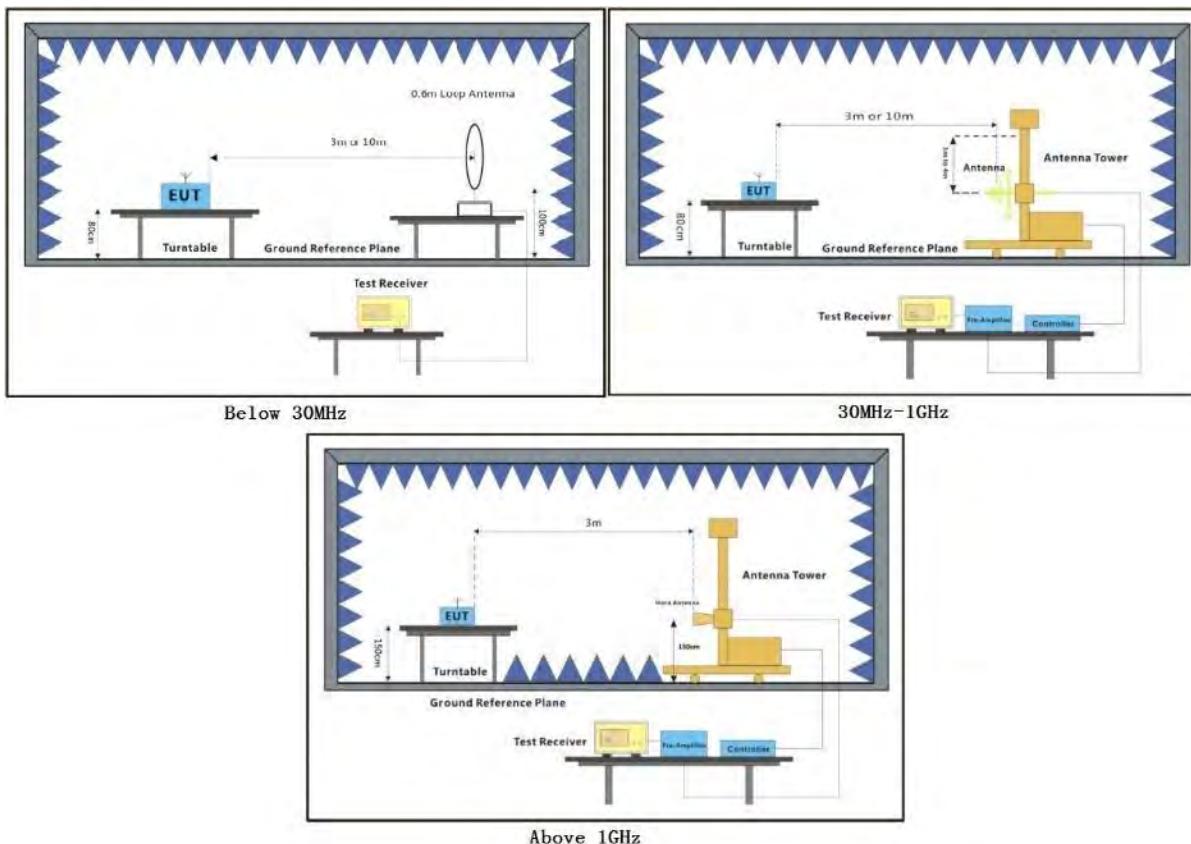
Temperature: 21.5 °C

Humidity: 55.6 % RH

Atmospheric Pressure: 1000 mbar

**7.8.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	00	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), Only the data of worst case is recorded in the report.
Final test	01	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). Only the data of worst case is recorded in the report.

**7.8.3 Test Setup Diagram**

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#### 7.8.4 Measurement Procedure and Data

- a. For 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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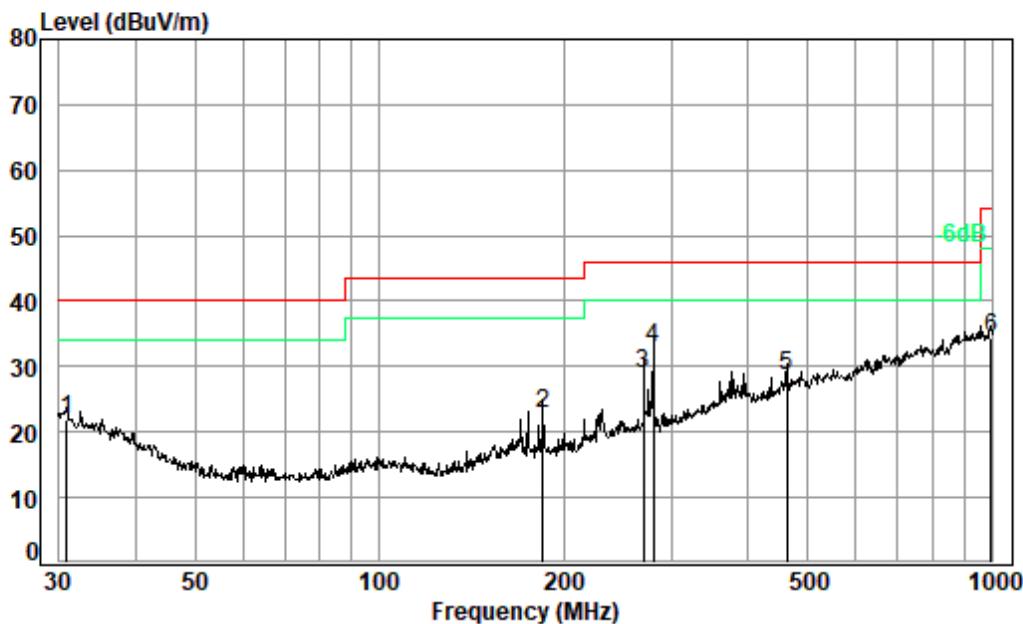
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**30MHz~1GHz**

QP value:

Test Mode: 00; Polarity: Horizontal



Condition: 3m HORIZONTAL

Job No. : 08088CR

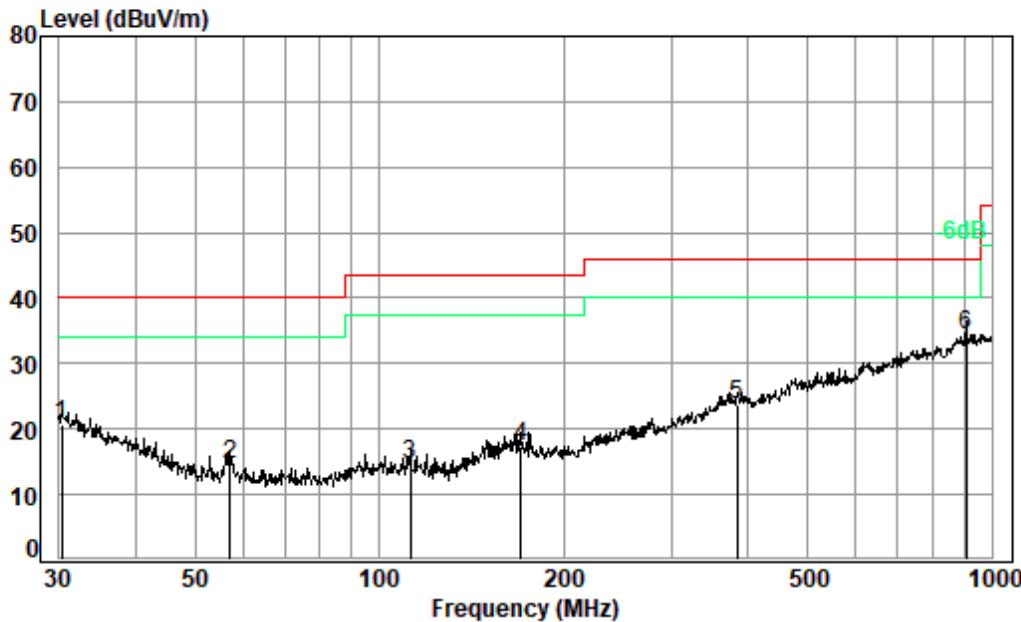
Test Mode: 00

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.85	0.61	22.35	27.73	26.63	21.86	40.00	-18.14 QP
2	185.14	1.19	15.45	27.20	33.42	22.86	43.50	-20.64 QP
3	270.37	1.79	18.59	26.94	35.50	28.94	46.00	-17.06 QP
4 pp	280.02	1.86	18.40	26.92	39.36	32.70	46.00	-13.30 QP
5	462.35	2.43	23.07	27.66	30.69	28.53	46.00	-17.47 QP
6	996.50	3.60	29.75	26.68	27.61	34.28	54.00	-19.72 QP

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Test Mode: 00; Polarity: Vertical



Condition: 3m VERTICAL

Job No. : 08088CR

Test Mode: 00

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level			
1	30.32	0.60	22.76	27.73	25.16	20.79	40.00 -19.21 QP
2	56.99	0.77	13.05	27.67	28.60	14.75	40.00 -25.25 QP
3	112.52	1.12	13.52	27.53	27.54	14.65	43.50 -28.85 QP
4	170.19	1.18	15.60	27.25	27.95	17.48	43.50 -26.02 QP
5	383.93	2.26	22.24	27.32	26.52	23.70	46.00 -22.30 QP
6 pp	906.48	3.51	29.00	27.13	29.11	34.49	46.00 -11.51 QP

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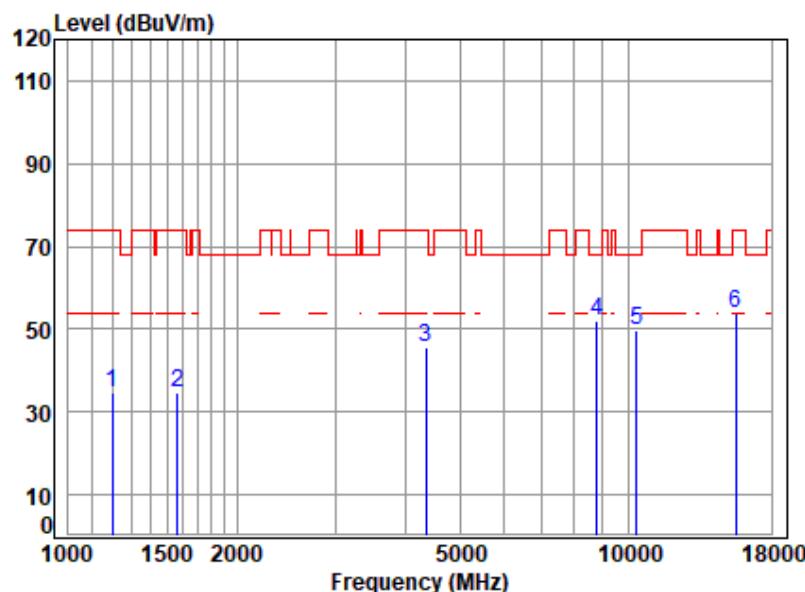
**Above 1GHz:**

Antenna 1 & 2 were tested for Modulation: 802.11a. Only the worst case(Antenna 1) was recorded in the report.

Antenna 1, 2 & 1+2, were tested for Modulation: 802.11n(HT20),n(HT40). Only the worst case(Antenna 1+2) was recorded in the report.

**For Band 1:**

Test Mode: 00; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5180 TX RSE  
Note : 5G WIFI 11A

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1 1196.264	2.76	24.57	40.28	47.41	34.46	74.00	-39.54 peak
2 1569.721	3.32	26.12	40.55	45.83	34.72	74.00	-39.28 peak
3 4354.454	6.63	33.35	42.44	48.18	45.72	74.00	-28.28 peak
4 8789.516	10.22	37.12	39.85	44.74	52.23	68.20	-15.97 peak
5 10360.000	10.57	37.76	38.17	39.43	49.59	68.20	-18.61 peak
6 15540.000	13.97	40.72	40.58	39.50	53.61	74.00	-20.39 peak

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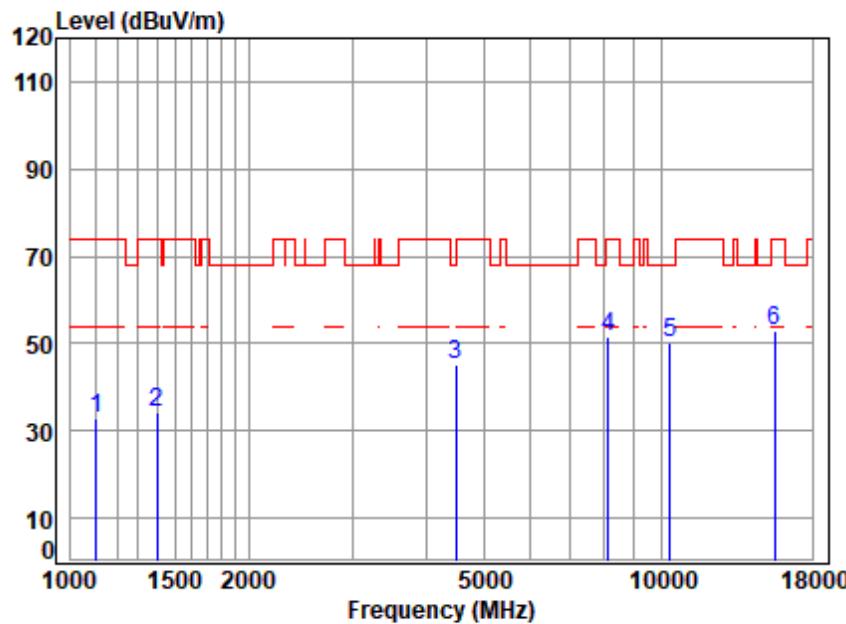
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Test Mode: 00; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5180 TX RSE  
Note : 5G WIFI 11A

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level			
1	1106.457	2.58	24.15	40.20	46.37	32.90	74.00 -41.10 peak
2	1398.336	3.10	25.42	40.44	46.33	34.41	74.00 -39.59 peak
3	4482.150	6.74	33.57	42.54	47.53	45.30	68.20 -22.90 peak
4	8129.664	9.60	36.78	40.97	46.10	51.51	74.00 -22.49 peak
5	10360.000	10.57	37.76	38.17	40.21	50.37	68.20 -17.83 peak
6	15540.000	13.97	40.72	40.58	38.99	53.10	74.00 -20.90 peak

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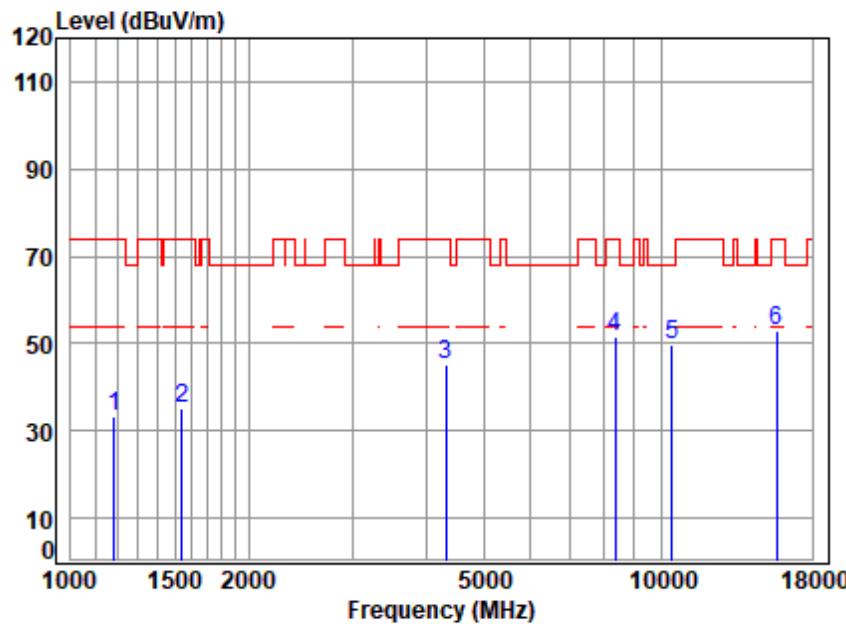
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5220 TX RSE  
Note : 5G WIFI 11A

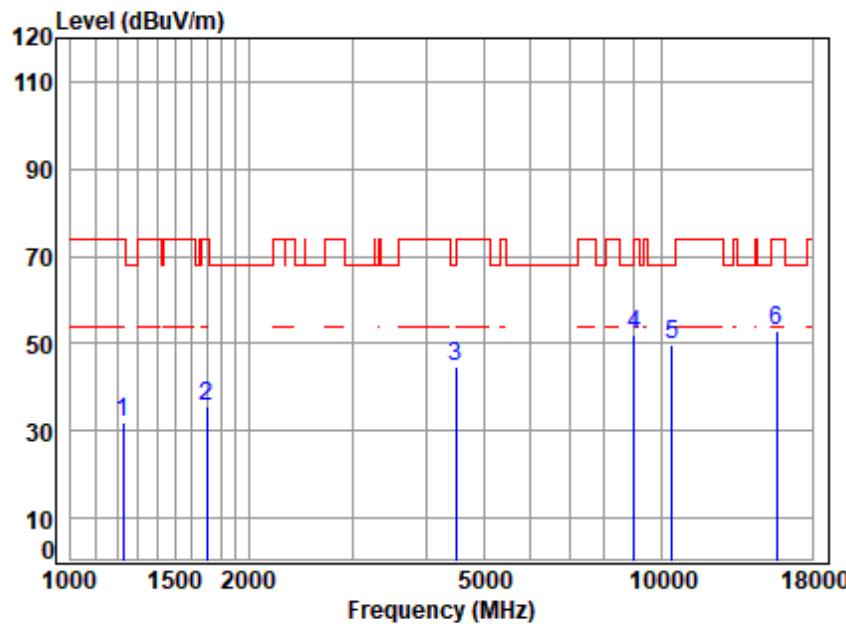
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1185.936	2.74	24.53	40.27	46.35	33.35	74.00	-40.65 peak
2 1542.733	3.30	26.00	40.53	46.24	35.01	74.00	-38.99 peak
3 4316.859	6.59	33.28	42.41	47.62	45.08	74.00	-28.92 peak
4 8343.918	9.89	36.91	40.60	45.54	51.74	74.00	-22.26 peak
5 10440.000	10.55	37.72	38.21	39.81	49.87	68.20	-18.33 peak
6 15660.000	14.02	40.80	40.58	38.56	52.80	74.00	-21.20 peak

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Test Mode: 00; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5220 TX RSE  
Note : 5G WIFI 11A

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level			
1	1227.791	2.82	24.71	40.31	44.92	32.14	74.00 -41.86 peak
2	1697.129	3.43	26.66	40.63	46.09	35.55	74.00 -38.45 peak
3	4495.125	6.76	33.59	42.55	46.98	44.78	68.20 -23.42 peak
4	8995.123	10.30	37.20	39.52	44.14	52.12	68.20 -16.08 peak
5	10440.000	10.55	37.72	38.21	39.67	49.73	68.20 -18.47 peak
6	15660.000	14.02	40.80	40.58	38.50	52.74	74.00 -21.26 peak

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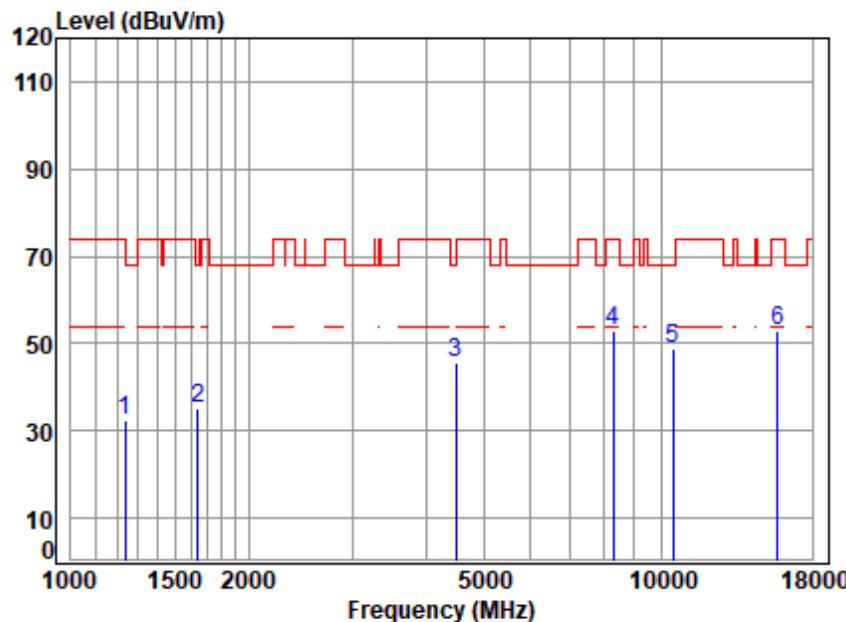
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5240 TX RSE  
Note : 5G WIFI 11A

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1238.483	2.83	24.76	40.31	45.30	32.58	74.00	-41.42 peak
2 1639.274	3.38	26.42	40.59	45.94	35.15	68.20	-33.05 peak
3 4482.150	6.74	33.57	42.54	48.01	45.78	68.20	-22.42 peak
4 8295.823	9.83	36.88	40.68	46.90	52.93	74.00	-21.07 peak
5 10480.000	10.54	37.71	38.23	39.02	49.04	68.20	-19.16 peak
6 15720.000	14.04	40.83	40.57	38.46	52.76	74.00	-21.24 peak

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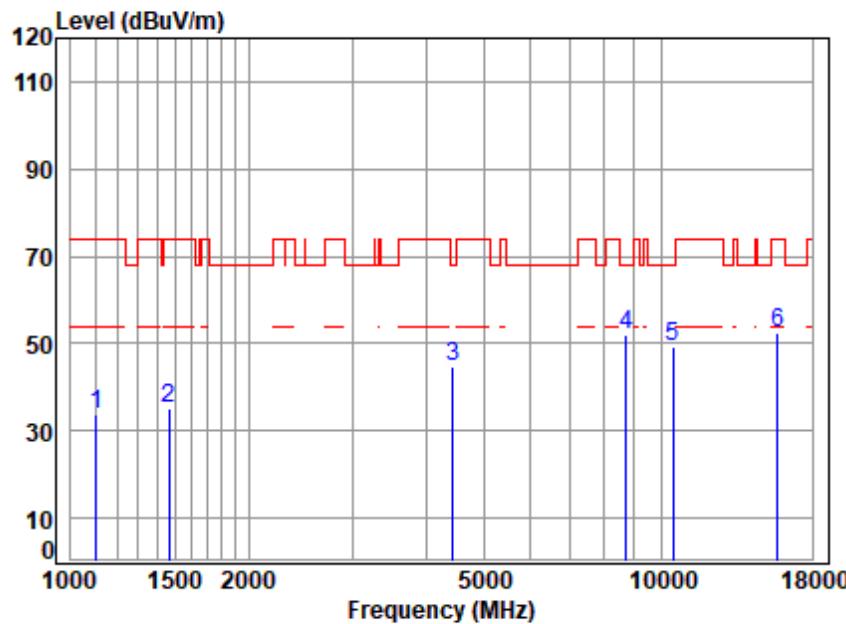
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Test Mode: 00; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5240 TX RSE  
Note : 5G WIFI 11A

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1106.457	2.58	24.15	40.20	47.13	33.66	74.00	-40.34 peak
2 1468.761	3.21	25.69	40.48	46.69	35.11	74.00	-38.89 peak
3 4443.453	6.71	33.50	42.51	47.17	44.87	68.20	-23.33 peak
4 8713.630	10.19	37.09	39.97	44.86	52.17	68.20	-16.03 peak
5 10480.000	10.54	37.71	38.23	39.24	49.26	68.20	-18.94 peak
6 15720.000	14.04	40.83	40.57	37.98	52.28	74.00	-21.72 peak

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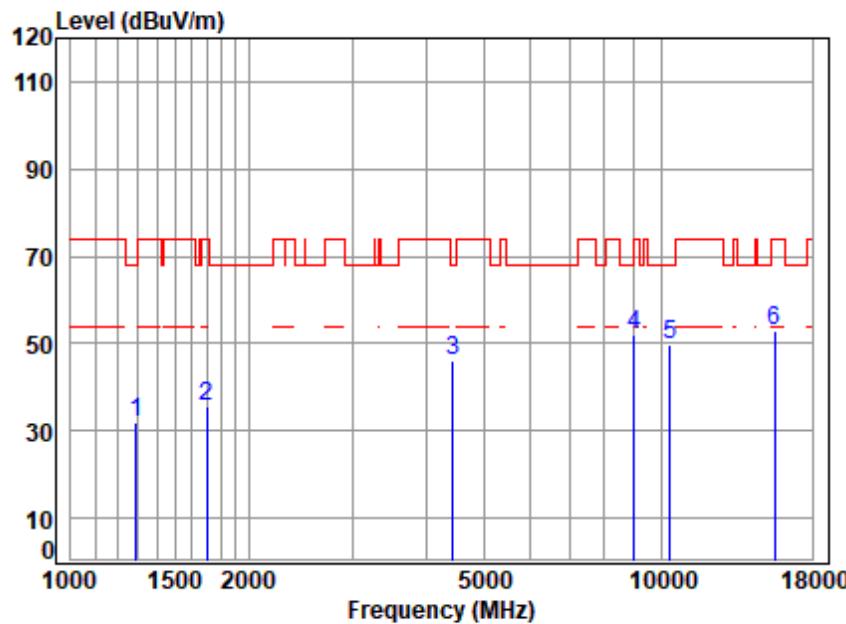
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5180 TX RSE  
Note : 5G WIFI 11N20

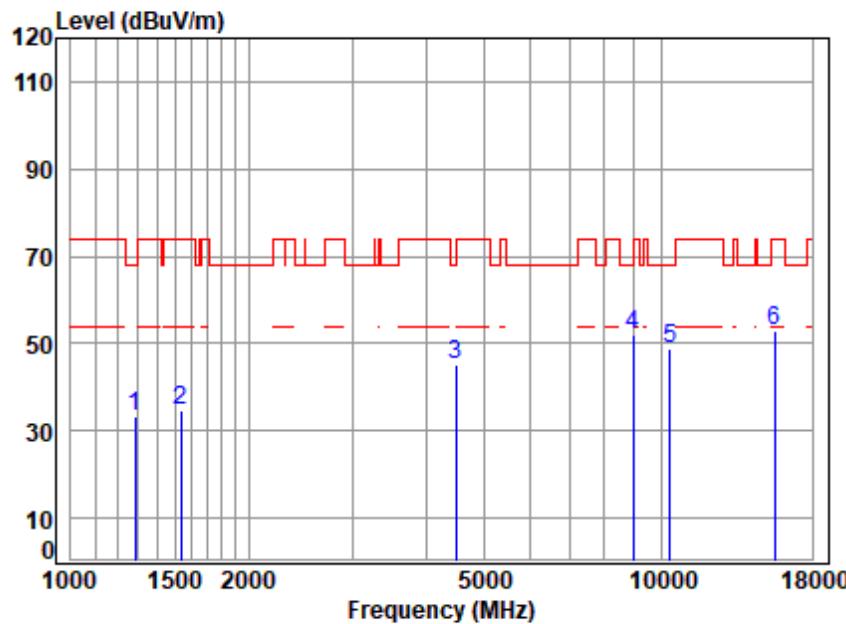
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level			
1	1289.627	2.92	24.98	40.35	44.50	32.05	68.20 -36.15 peak
2	1697.129	3.43	26.66	40.63	46.08	35.54	74.00 -38.46 peak
3	4430.628	6.70	33.48	42.50	48.23	45.91	68.20 -22.29 peak
4	8995.123	10.30	37.20	39.52	44.05	52.03	68.20 -16.17 peak
5	10360.000	10.57	37.76	38.17	39.45	49.61	68.20 -18.59 peak
6	15540.000	13.97	40.72	40.58	38.75	52.86	74.00 -21.14 peak

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5180 TX RSE  
Note : 5G WIFI 11N20

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	45.64	33.17	68.20	-35.03 peak
2 1533.841	3.29	25.96	40.53	46.08	34.80	74.00	-39.20 peak
3 4482.150	6.74	33.57	42.54	47.48	45.25	68.20	-22.95 peak
4 8969.161	10.29	37.19	39.56	44.24	52.16	68.20	-16.04 peak
5 10360.000	10.57	37.76	38.17	38.52	48.68	68.20	-19.52 peak
6 15540.000	13.97	40.72	40.58	38.82	52.93	74.00	-21.07 peak

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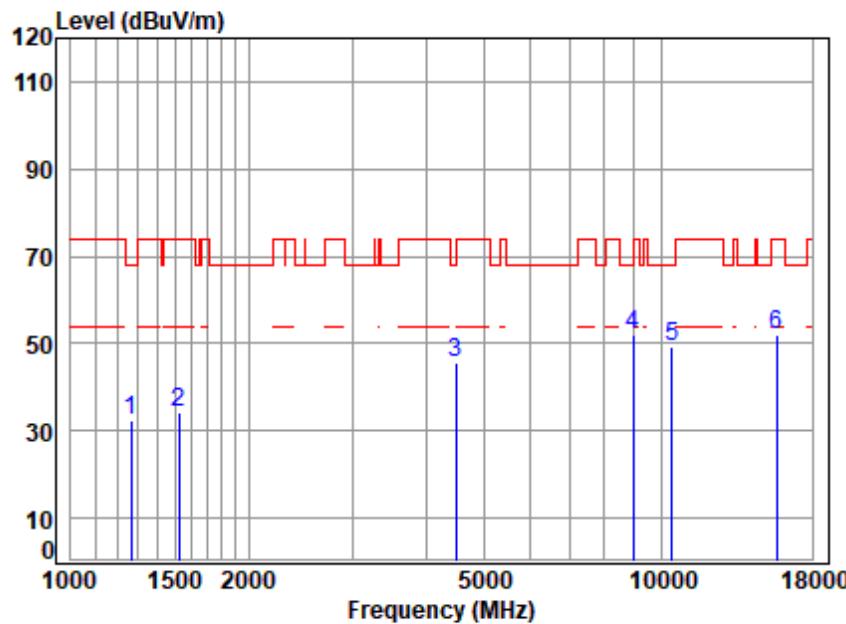
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5220 TX RSE  
Note : 5G WIFI 11N20

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	45.05	32.49	68.20	-35.71 peak
2 1525.000	3.28	25.91	40.52	45.35	34.02	74.00	-39.98 peak
3 4482.150	6.74	33.57	42.54	47.92	45.69	68.20	-22.51 peak
4 8969.161	10.29	37.19	39.56	44.28	52.20	68.20	-16.00 peak
5 10440.000	10.55	37.72	38.21	39.06	49.12	68.20	-19.08 peak
6 15660.000	14.02	40.80	40.58	37.67	51.91	74.00	-22.09 peak

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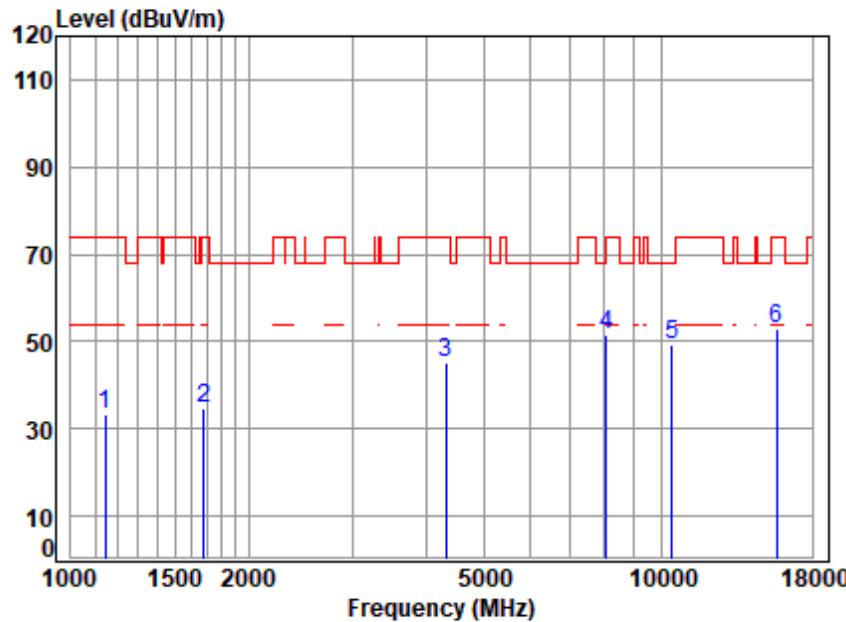
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5220 TX RSE  
Note : 5G WIFI 11N20

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	46.70	33.46	74.00	-40.54 peak
2 1677.621	3.41	26.58	40.62	45.30	34.67	74.00	-39.33 peak
3 4316.859	6.59	33.28	42.41	47.75	45.21	74.00	-28.79 peak
4 8082.804	9.54	36.75	41.05	46.12	51.36	74.00	-22.64 peak
5 10440.000	10.55	37.72	38.21	39.05	49.11	68.20	-19.09 peak
6 15660.000	14.02	40.80	40.58	38.48	52.72	74.00	-21.28 peak

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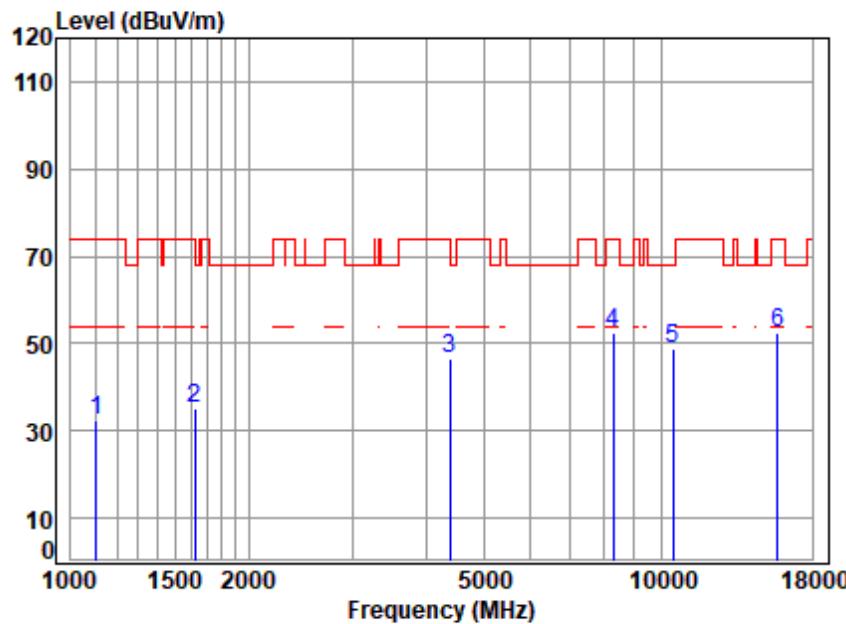
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5240 TX RSE  
Note : 5G WIFI 11N20

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	45.97	32.50	74.00	-41.50 peak
2 1620.431	3.36	26.34	40.58	46.16	35.28	74.00	-38.72 peak
3 4392.376	6.66	33.42	42.47	48.88	46.49	74.00	-27.51 peak
4 8295.823	9.83	36.88	40.68	46.62	52.65	74.00	-21.35 peak
5 10480.000	10.54	37.71	38.23	38.98	49.00	68.20	-19.20 peak
6 15720.000	14.04	40.83	40.57	38.03	52.33	74.00	-21.67 peak

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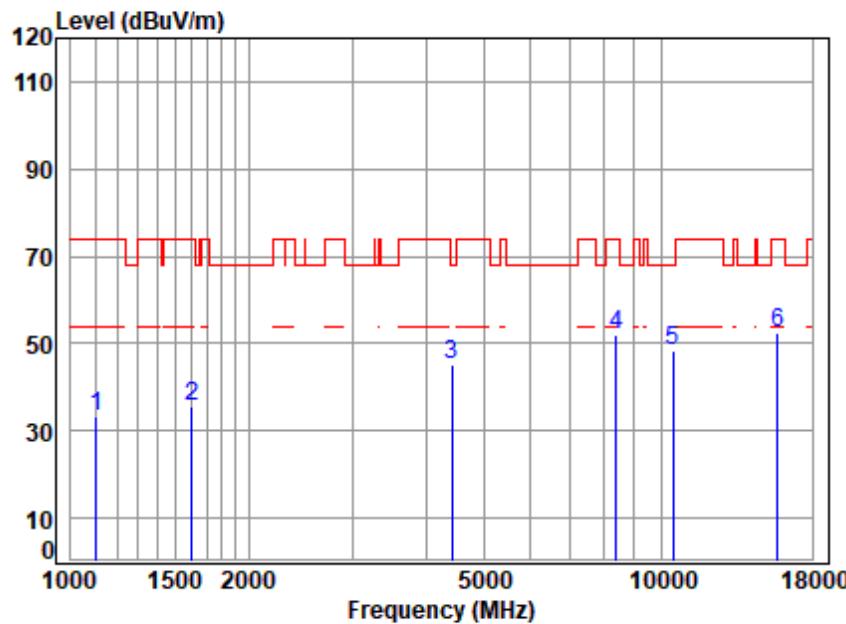
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5240 TX RSE  
Note : 5G WIFI 11N20

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	46.61	33.14	74.00	-40.86 peak
2 1606.441	3.35	26.28	40.57	46.58	35.64	74.00	-38.36 peak
3 4417.841	6.68	33.46	42.49	47.60	45.25	68.20	-22.95 peak
4 8392.292	9.96	36.94	40.51	45.55	51.94	74.00	-22.06 peak
5 10480.000	10.54	37.71	38.23	38.25	48.27	68.20	-19.93 peak
6 15720.000	14.04	40.83	40.57	38.06	52.36	74.00	-21.64 peak

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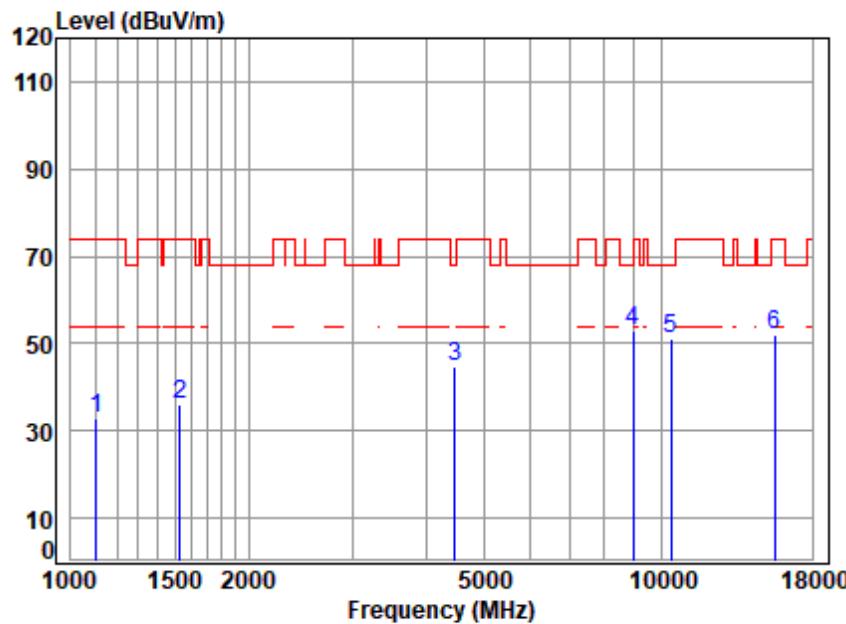
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5190 TX SE  
Note : 5G WIFI 11N40

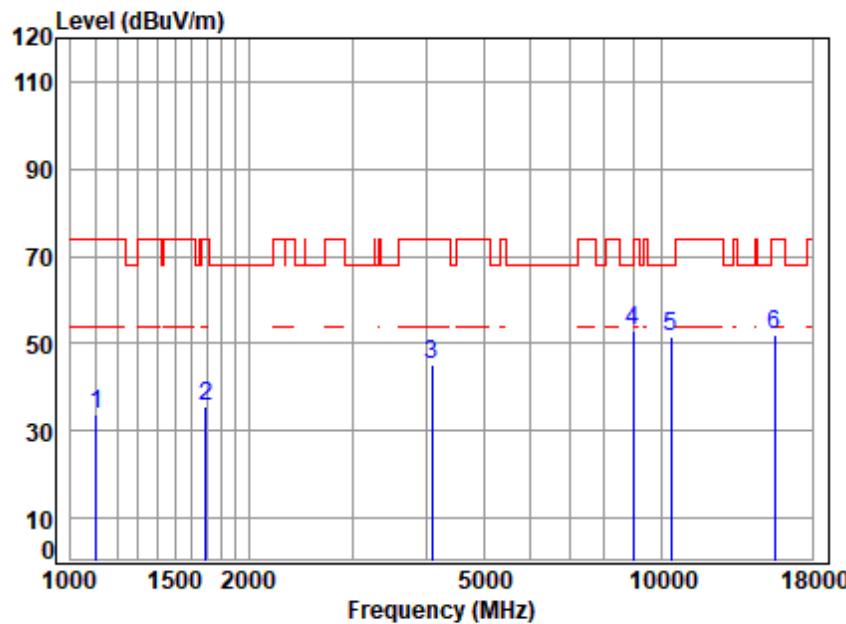
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1106.457	2.58	24.15	40.20	46.33	32.86	74.00	-41.14 peak
2 1529.414	3.29	25.94	40.53	47.13	35.83	74.00	-38.17 peak
3 4469.214	6.73	33.55	42.53	47.18	44.93	68.20	-23.27 peak
4 8943.274	10.28	37.18	39.60	44.89	52.75	68.20	-15.45 peak
5 10380.000	10.57	37.75	38.18	41.03	51.17	68.20	-17.03 peak
6 15570.000	13.98	40.74	40.58	37.80	51.94	74.00	-22.06 peak

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5190 TX SE  
Note : 5G WIFI 11N40

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	47.05	33.58	74.00	-40.42 peak
2 1692.231	3.42	26.64	40.63	46.32	35.75	74.00	-38.25 peak
3 4086.182	6.37	32.86	42.23	47.95	44.95	74.00	-29.05 peak
4 8969.161	10.29	37.19	39.56	44.86	52.78	68.20	-15.42 peak
5 10380.000	10.57	37.75	38.18	41.56	51.70	68.20	-16.50 peak
6 15570.000	13.98	40.74	40.58	38.05	52.19	74.00	-21.81 peak

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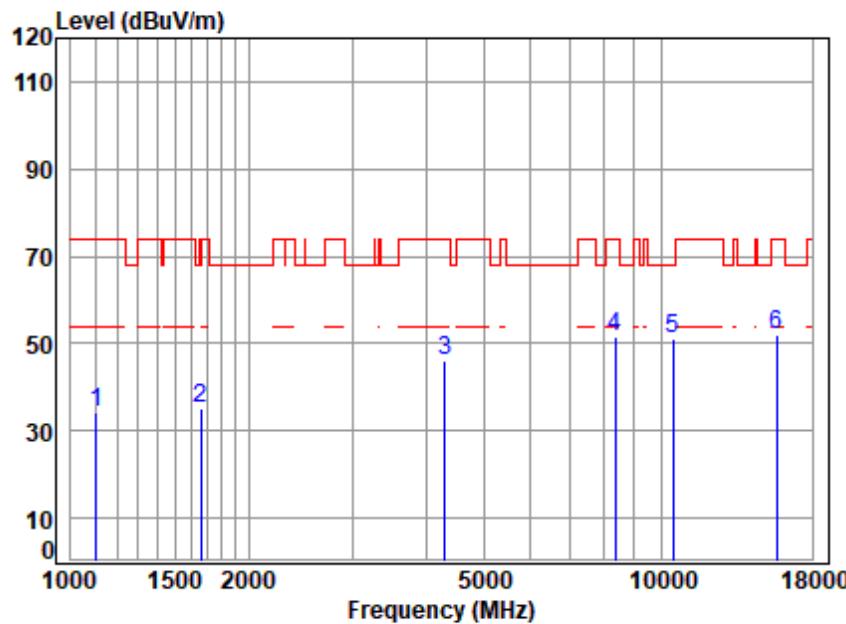
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5230 TX SE  
Note : 5G WIFI 11N40

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	47.74	34.27	74.00	-39.73 peak
2 1658.337	3.40	26.50	40.61	46.02	35.31	68.20	-32.89 peak
3 4304.400	6.58	33.26	42.40	48.68	46.12	74.00	-27.88 peak
4 8368.069	9.92	36.92	40.55	45.17	51.46	74.00	-22.54 peak
5 10460.000	10.54	37.72	38.22	41.22	51.26	68.20	-16.94 peak
6 15690.000	14.03	40.82	40.58	37.84	52.11	74.00	-21.89 peak

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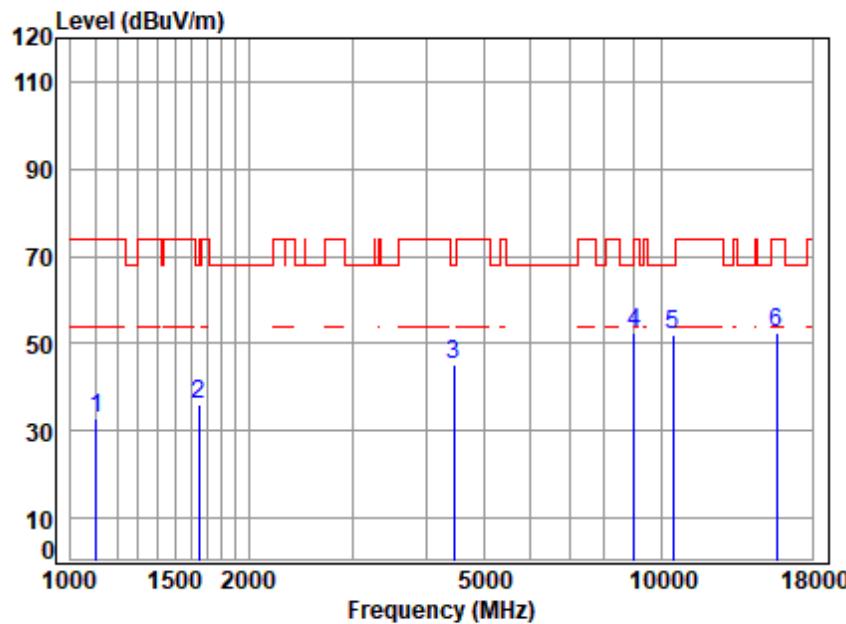
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5230 TX SE  
Note : 5G WIFI 11N40

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	46.13	32.66	74.00	-41.34 peak
2 1648.778	3.39	26.46	40.60	46.78	36.03	68.20	-32.17 peak
3 4456.315	6.72	33.53	42.52	47.41	45.14	68.20	-23.06 peak
4 8995.123	10.30	37.20	39.52	44.46	52.44	68.20	-15.76 peak
5 10460.000	10.54	37.72	38.22	42.08	52.12	68.20	-16.08 peak
6 15690.000	14.03	40.82	40.58	38.04	52.31	74.00	-21.69 peak

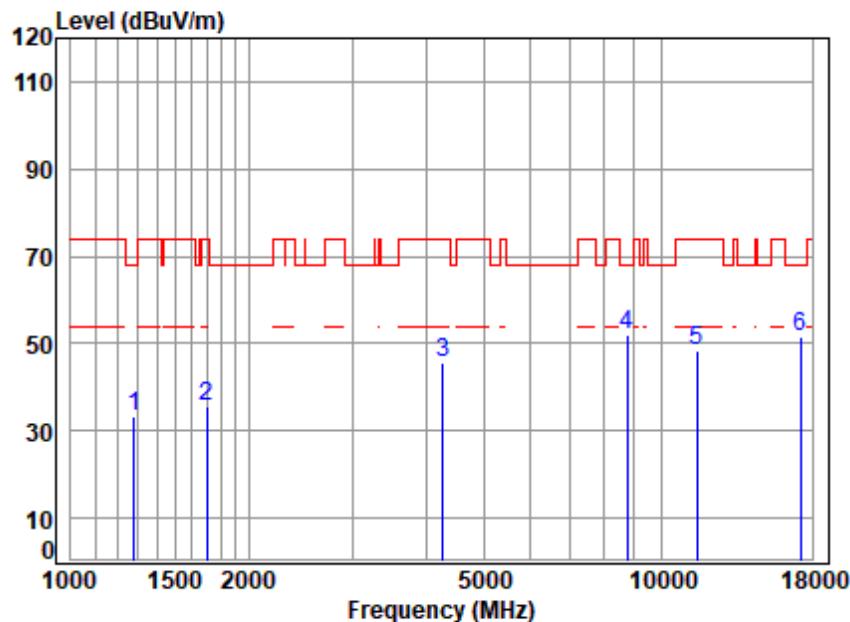
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**For Band 3:**

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5745 TX RSE  
Note : 5G WIFI 11A

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1282.193	2.91	24.95	40.35	45.62	33.13	68.20	-35.07 peak
2 1702.042	3.43	26.68	40.63	46.19	35.67	74.00	-38.33 peak
3 4267.237	6.54	33.19	42.37	48.05	45.41	74.00	-28.59 peak
4 8764.146	10.21	37.11	39.89	44.38	51.81	68.20	-16.39 peak
5 11490.000	11.62	37.90	38.69	37.51	48.34	74.00	-25.66 peak
6 17235.000	14.09	42.74	40.52	35.20	51.51	68.20	-16.69 peak

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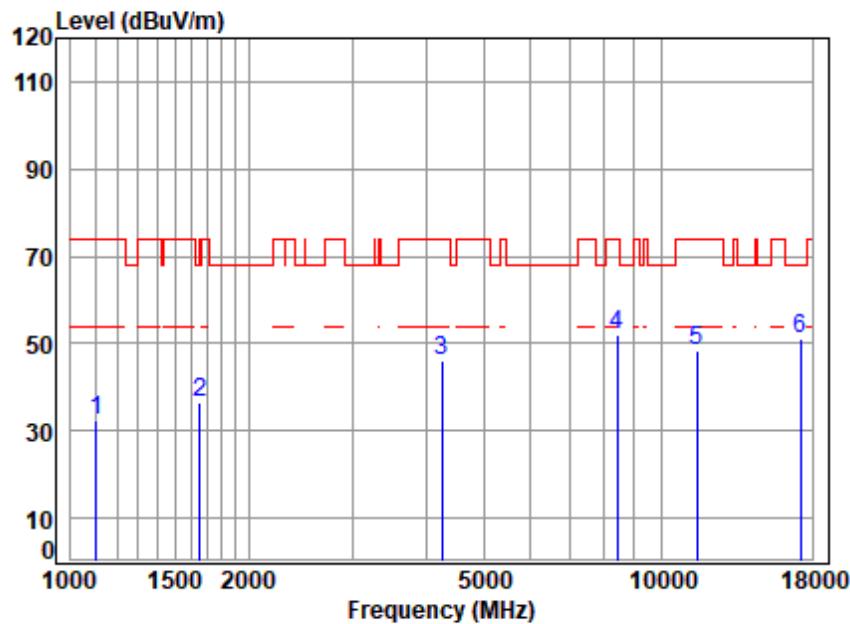


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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5745 TX RSE  
Note : 5G WIFI 11A

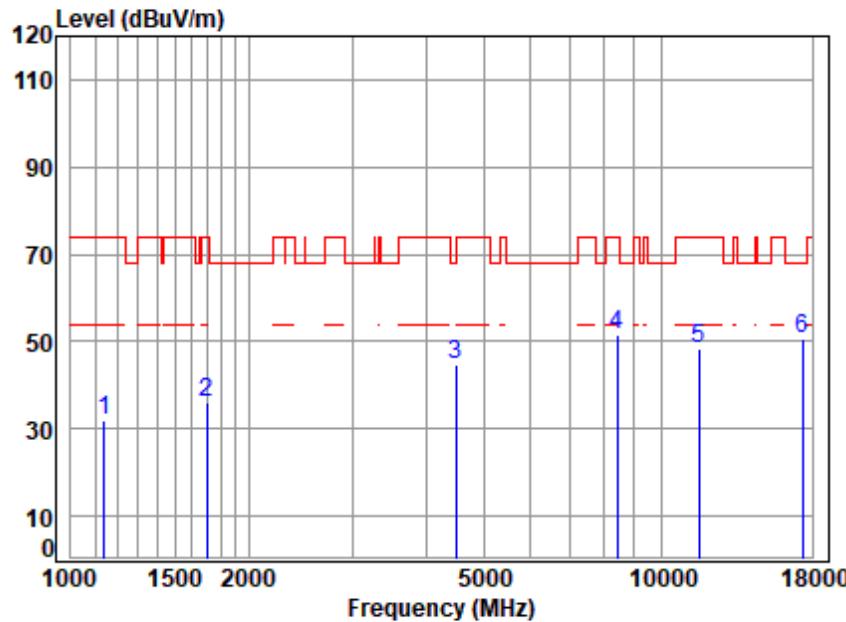
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level			
1	1106.457	2.58	24.15	40.20	46.05	32.58	74.00 -41.42 peak
2	1653.550	3.39	26.48	40.60	47.26	36.53	68.20 -31.67 peak
3	4254.921	6.53	33.17	42.36	48.86	46.20	74.00 -27.80 peak
4	8416.584	9.99	36.95	40.47	45.44	51.91	74.00 -22.09 peak
5	11490.000	11.62	37.90	38.69	37.68	48.51	74.00 -25.49 peak
6	17235.000	14.09	42.74	40.52	34.73	51.04	68.20 -17.16 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5785 TX RSE  
Note : 5G WIFI 11A

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1138.904	2.65	24.31	40.23	45.35	32.08	74.00	-41.92 peak
2 1702.042	3.43	26.68	40.63	46.54	36.02	74.00	-37.98 peak
3 4495.125	6.76	33.59	42.55	46.90	44.70	68.20	-23.50 peak
4 8416.584	9.99	36.95	40.47	45.31	51.78	74.00	-22.22 peak
5 11570.000	11.72	37.87	38.72	37.32	48.19	74.00	-25.81 peak
6 17355.000	14.06	42.81	40.52	34.38	50.73	68.20	-17.47 peak

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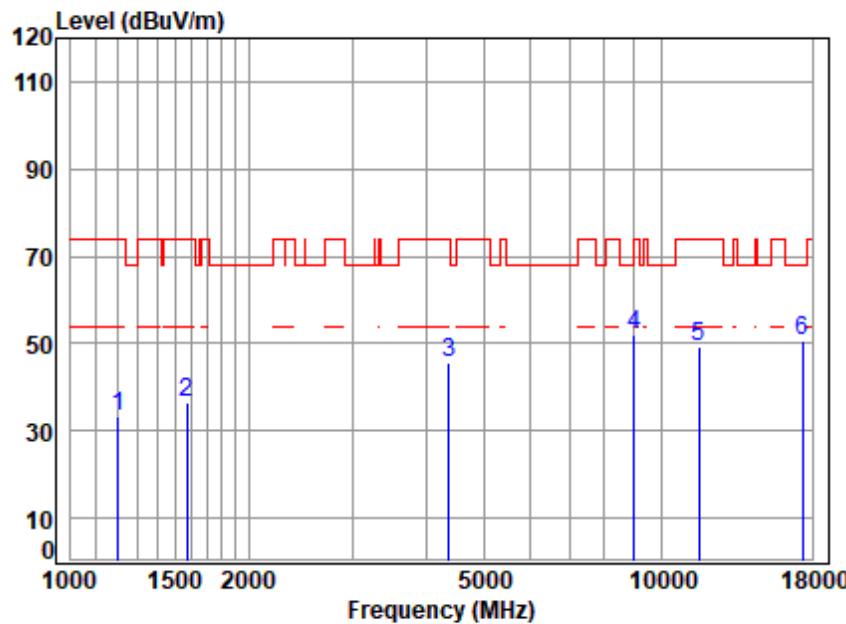
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5785 TX RSE  
Note : 5G WIFI 11A

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level			
1	1203.199	2.77	24.60	40.29	46.25	33.33	74.00 -40.67 peak
2	1574.265	3.33	26.14	40.55	47.78	36.70	74.00 -37.30 peak
3	4367.058	6.64	33.37	42.45	47.87	45.43	74.00 -28.57 peak
4	8995.123	10.30	37.20	39.52	44.07	52.05	68.20 -16.15 peak
5	11570.000	11.72	37.87	38.72	38.32	49.19	74.00 -24.81 peak
6	17355.000	14.06	42.81	40.52	34.23	50.58	68.20 -17.62 peak

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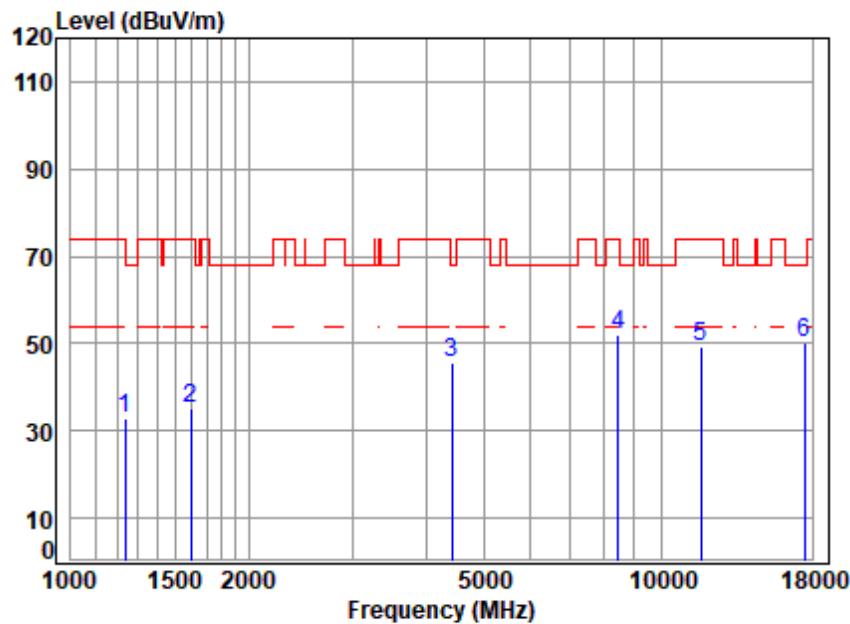
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5825 TX RSE  
Note : 5G WIFI 11A

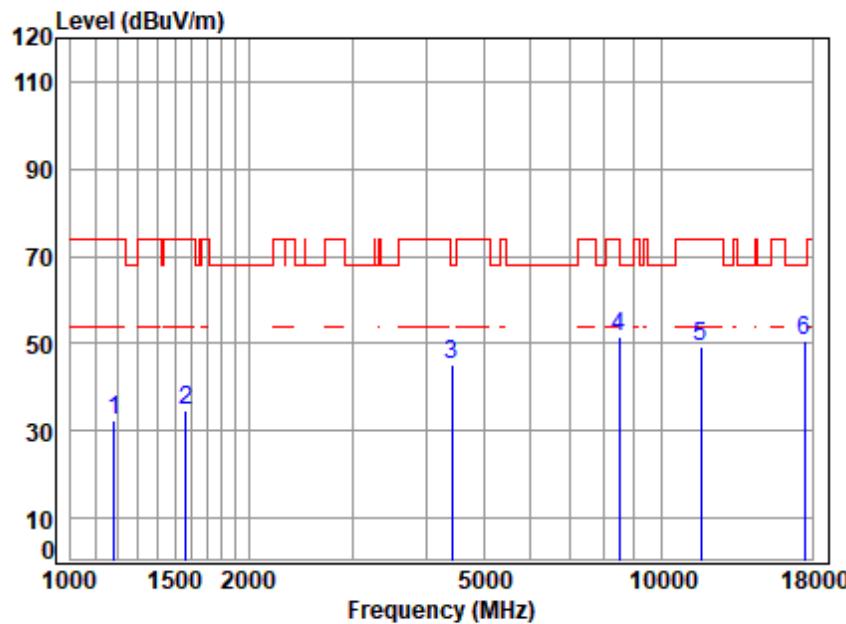
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level			
1	1234.909	2.83	24.74	40.31	45.44	32.70	74.00 -41.30 peak
2	1597.181	3.35	26.24	40.57	46.27	35.29	74.00 -38.71 peak
3	4417.841	6.68	33.46	42.49	47.86	45.51	68.20 -22.69 peak
4	8440.945	10.02	36.97	40.43	45.42	51.98	74.00 -22.02 peak
5	11650.000	11.82	37.84	38.75	38.51	49.42	74.00 -24.58 peak
6	17475.000	14.02	42.89	40.52	33.93	50.32	68.20 -17.88 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5825 TX RSE  
Note : 5G WIFI 11A

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1182.513	2.73	24.51	40.27	45.58	32.55	74.00	-41.45 peak
2 1565.191	3.32	26.10	40.55	46.01	34.88	74.00	-39.12 peak
3 4417.841	6.68	33.46	42.49	47.55	45.20	68.20	-23.00 peak
4 8489.882	10.09	36.99	40.35	44.83	51.56	74.00	-22.44 peak
5 11650.000	11.82	37.84	38.75	38.31	49.22	74.00	-24.78 peak
6 17475.000	14.02	42.89	40.52	34.26	50.65	68.20	-17.55 peak

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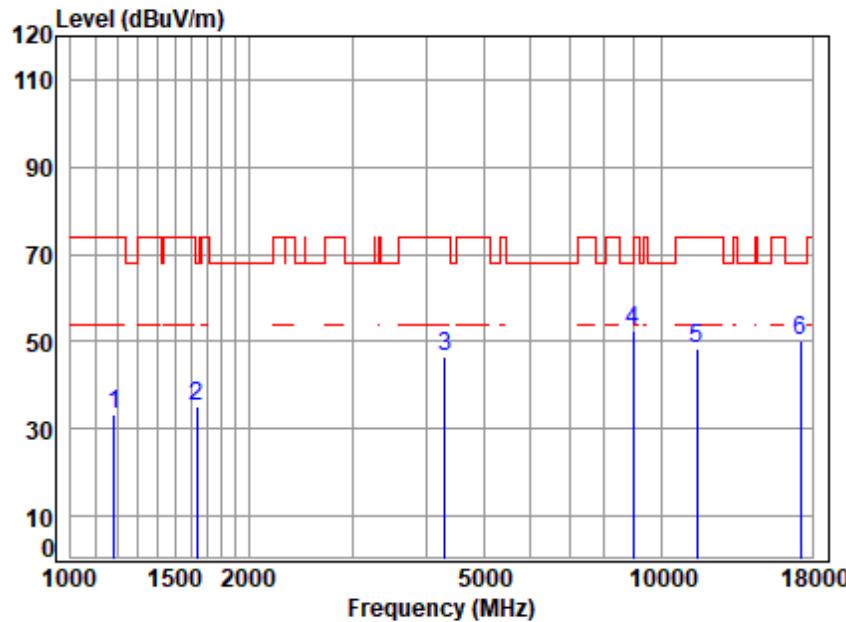
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5745 TX RSE  
Note : 5G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level			
1	1182.513	2.73	24.51	40.27	46.35	33.32	74.00 -40.68 peak
2	1634.543	3.38	26.40	40.59	45.82	35.01	68.20 -33.19 peak
3	4304.400	6.58	33.26	42.40	49.10	46.54	74.00 -27.46 peak
4	8969.161	10.29	37.19	39.56	44.46	52.38	68.20 -15.82 peak
5	11490.000	11.62	37.90	38.69	37.40	48.23	74.00 -25.77 peak
6	17235.000	14.09	42.74	40.52	34.05	50.36	68.20 -17.84 peak

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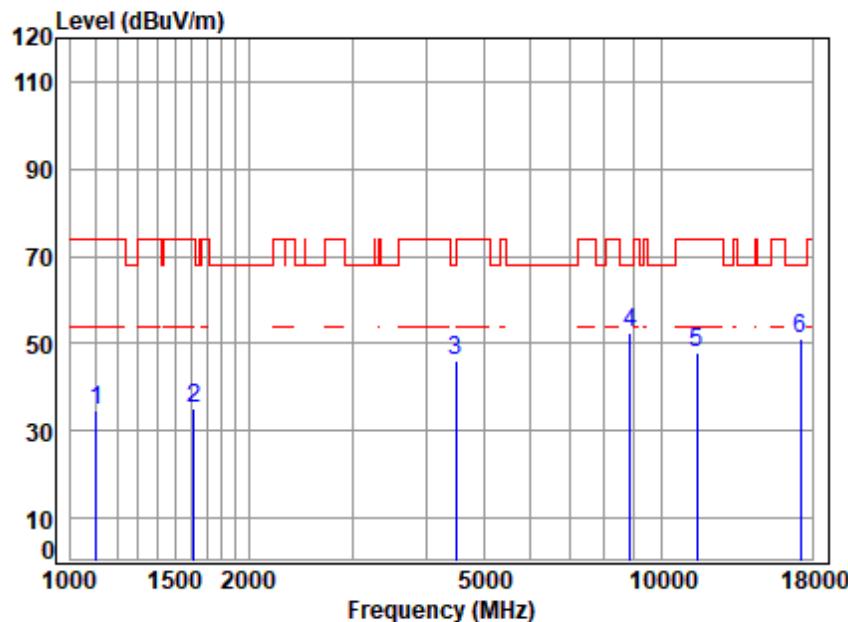
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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5745 TX RSE  
Note : 5G WIFI 11N20

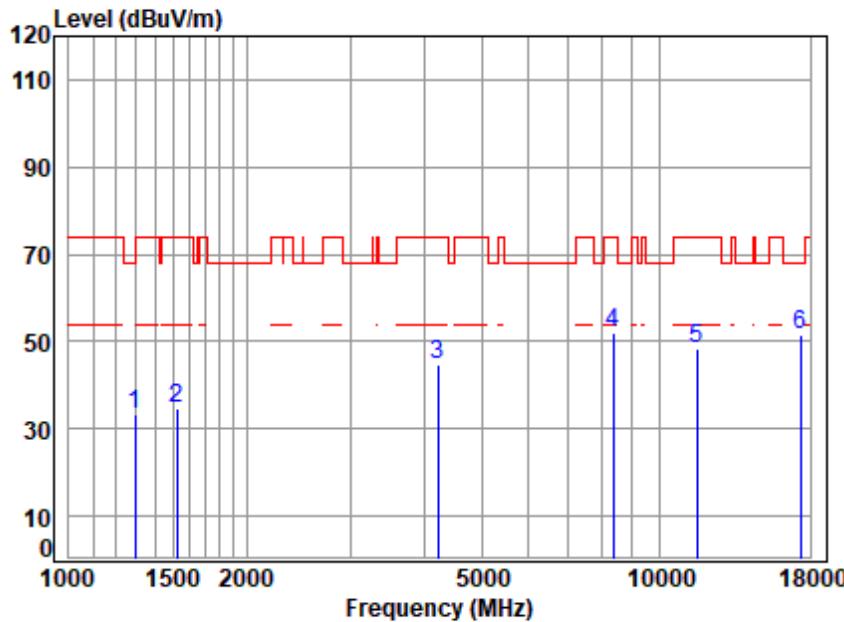
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1106.457	2.58	24.15	40.20	48.03	34.56	74.00	-39.44 peak
2 1615.754	3.36	26.32	40.58	46.00	35.10	74.00	-38.90 peak
3 4495.125	6.76	33.59	42.55	48.30	46.10	68.20	-22.10 peak
4 8840.473	10.24	37.14	39.77	44.88	52.49	68.20	-15.71 peak
5 11490.000	11.62	37.90	38.69	36.86	47.69	74.00	-26.31 peak
6 17235.000	14.09	42.74	40.52	34.69	51.00	68.20	-17.20 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5785 TX RSE  
Note : 5G WIFI 11N20

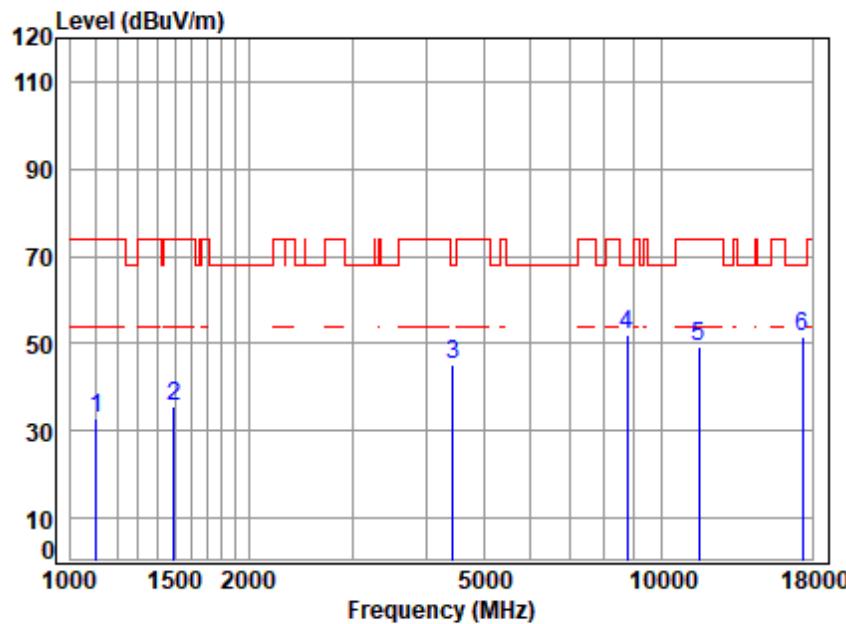
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Freq	Loss	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1297.103	2.94	25.01	40.36	45.62	33.21	68.20	-34.99 peak
2 1525.000	3.28	25.91	40.52	46.16	34.83	74.00	-39.17 peak
3 4218.186	6.50	33.11	42.33	47.33	44.61	74.00	-29.39 peak
4 8368.069	9.92	36.92	40.55	45.50	51.79	74.00	-22.21 peak
5 11570.000	11.72	37.87	38.72	37.52	48.39	74.00	-25.61 peak
6 17355.000	14.06	42.81	40.52	35.32	51.67	68.20	-16.53 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5785 TX RSE  
Note : 5G WIFI 11N20

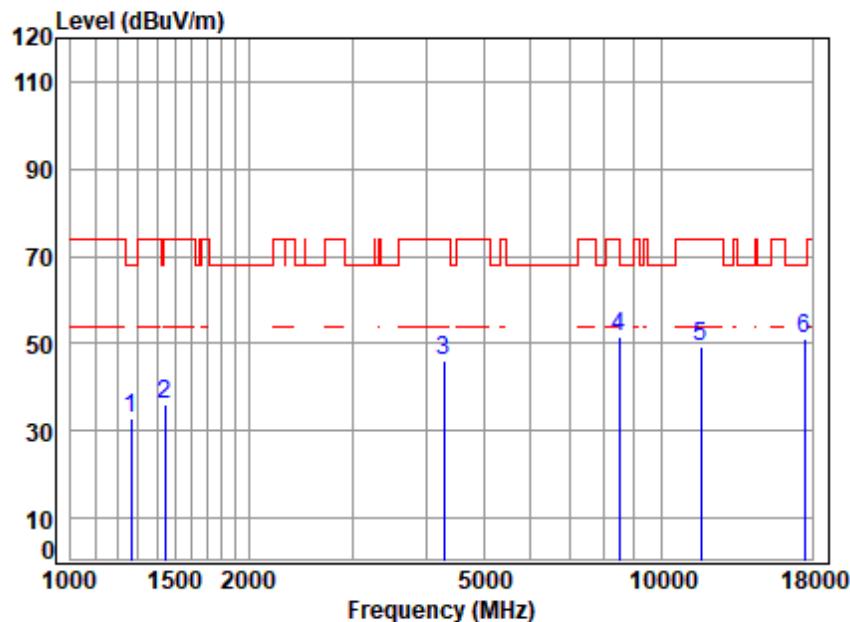
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1106.457	2.58	24.15	40.20	46.10	32.63	74.00	-41.37 peak
2 1494.455	3.25	25.78	40.50	47.18	35.71	74.00	-38.29 peak
3 4430.628	6.70	33.48	42.50	47.70	45.38	68.20	-22.82 peak
4 8764.146	10.21	37.11	39.89	44.38	51.81	68.20	-16.39 peak
5 11570.000	11.72	37.87	38.72	38.49	49.36	74.00	-24.64 peak
6 17355.000	14.06	42.81	40.52	35.05	51.40	68.20	-16.80 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5825 TX RSE  
Note : 5G WIFI 11N20

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 1443.509	3.17	25.59	40.47	47.82	36.11	74.00	-37.89 peak
3 4291.977	6.57	33.24	42.39	48.58	46.00	74.00	-28.00 peak
4 8489.882	10.09	36.99	40.35	44.92	51.65	74.00	-22.35 peak
5 11650.000	11.82	37.84	38.75	38.52	49.43	74.00	-24.57 peak
6 17475.000	14.02	42.89	40.52	34.73	51.12	68.20	-17.08 peak

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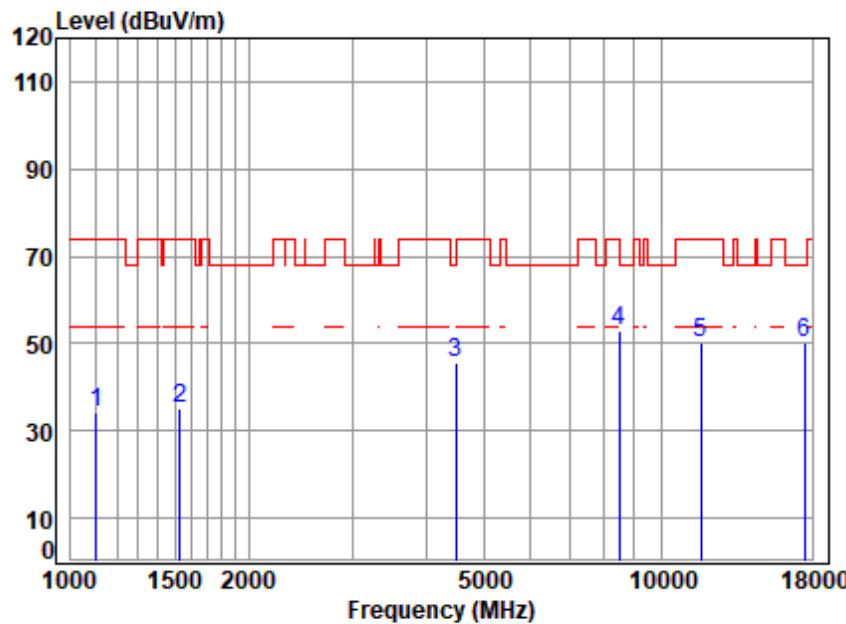
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5825 TX RSE  
Note : 5G WIFI 11N20

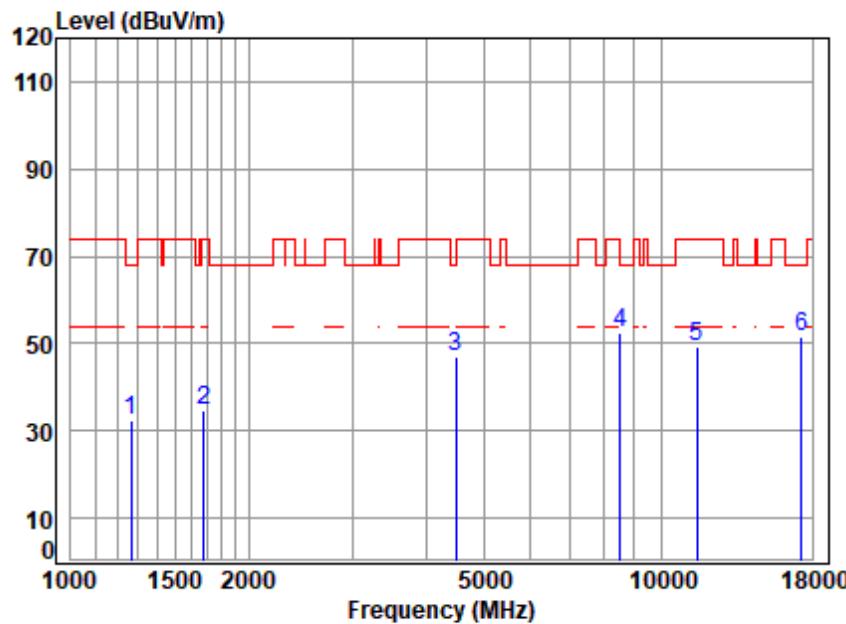
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1106.457	2.58	24.15	40.20	47.75	34.28	74.00	-39.72 peak
2 1529.414	3.29	25.94	40.53	46.42	35.12	74.00	-38.88 peak
3 4482.150	6.74	33.57	42.54	47.80	45.57	68.20	-22.63 peak
4 8489.882	10.09	36.99	40.35	46.00	52.73	74.00	-21.27 peak
5 11650.000	11.82	37.84	38.75	39.18	50.09	74.00	-23.91 peak
6 17475.000	14.02	42.89	40.52	33.89	50.28	68.20	-17.92 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5755 TX RSE  
Note : 5G WIFI 11N40

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	45.05	32.49	68.20	-35.71 peak
2 1677.621	3.41	26.58	40.62	45.18	34.55	74.00	-39.45 peak
3 4482.150	6.74	33.57	42.54	49.09	46.86	68.20	-21.34 peak
4 8514.456	10.11	37.01	40.31	45.61	52.42	68.20	-15.78 peak
5 11510.000	11.64	37.90	38.69	38.65	49.50	74.00	-24.50 peak
6 17265.000	14.08	42.76	40.52	35.07	51.39	68.20	-16.81 peak

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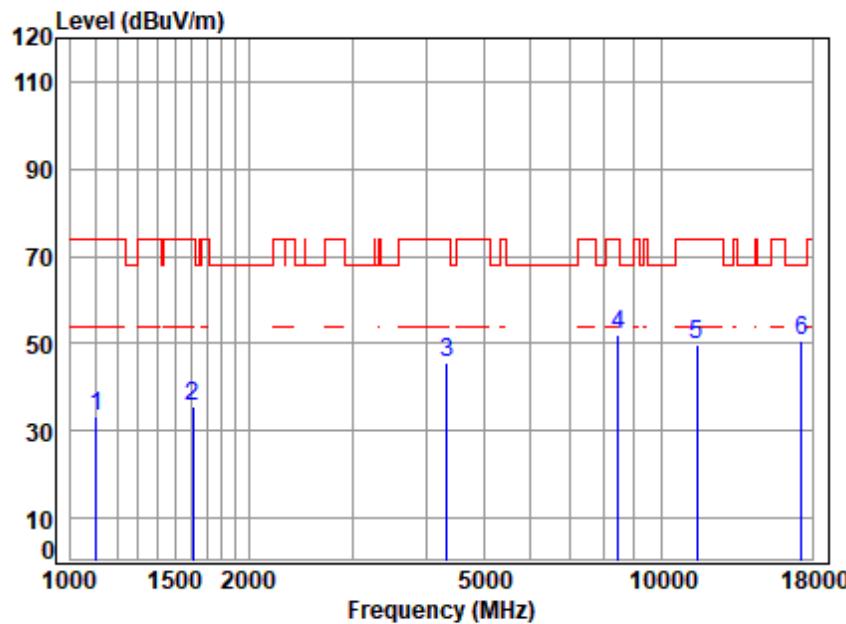
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5755 TX RSE  
Note : 5G WIFI 11N40

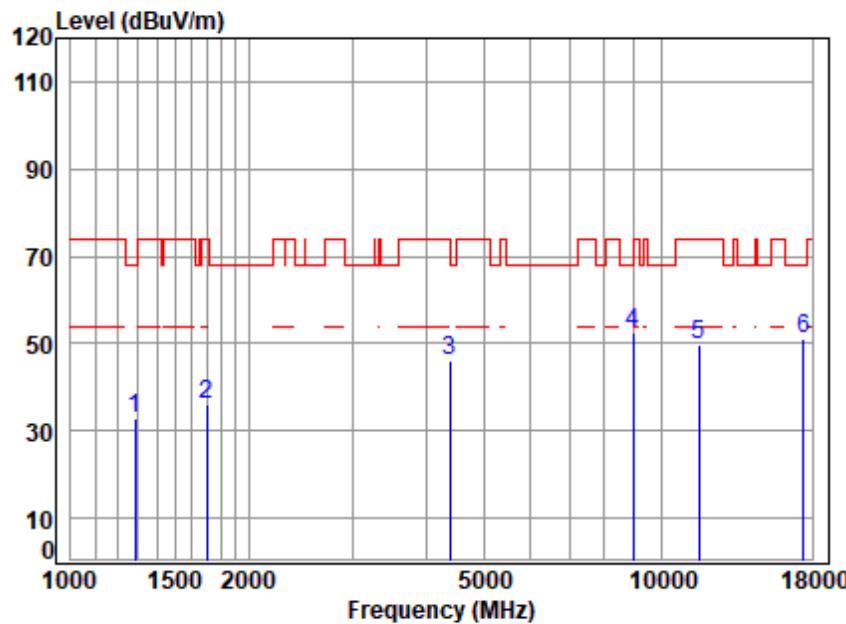
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level			
1	1106.457	2.58	24.15	40.20	46.67	33.20	74.00 -40.80 peak
2	1611.091	3.36	26.30	40.58	46.63	35.71	74.00 -38.29 peak
3	4329.354	6.60	33.30	42.42	47.94	45.42	74.00 -28.58 peak
4	8440.945	10.02	36.97	40.43	45.34	51.90	74.00 -22.10 peak
5	11510.000	11.64	37.90	38.69	38.81	49.66	74.00 -24.34 peak
6	17265.000	14.08	42.76	40.52	34.43	50.75	68.20 -17.45 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5795 TX RSE  
Note : 5G WIFI 11N40

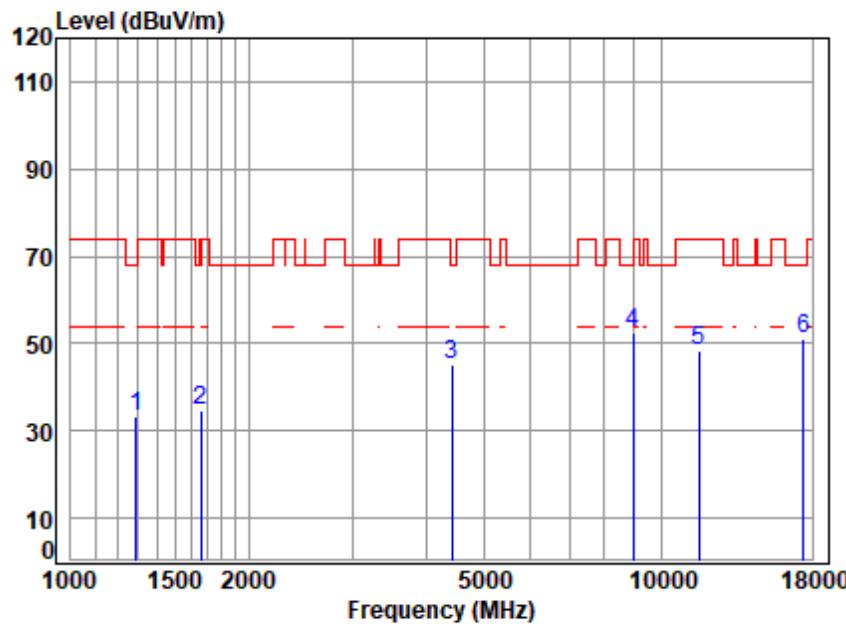
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1285.904	2.92	24.96	40.35	45.18	32.71	68.20	-35.49 peak
2 1697.129	3.43	26.66	40.63	46.48	35.94	74.00	-38.06 peak
3 4379.699	6.65	33.39	42.46	48.72	46.30	74.00	-27.70 peak
4 8969.161	10.29	37.19	39.56	44.53	52.45	68.20	-15.75 peak
5 11590.000	11.74	37.86	38.73	38.87	49.74	74.00	-24.26 peak
6 17385.000	14.05	42.83	40.52	34.63	50.99	68.20	-17.21 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5795 TX RSE  
Note : 5G WIFI 11N40

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	45.70	33.25	68.20	-34.95 peak
2 1663.137	3.40	26.52	40.61	45.44	34.75	74.00	-39.25 peak
3 4417.841	6.68	33.46	42.49	47.70	45.35	68.20	-22.85 peak
4 8969.161	10.29	37.19	39.56	44.77	52.69	68.20	-15.51 peak
5 11590.000	11.74	37.86	38.73	37.64	48.51	74.00	-25.49 peak
6 17385.000	14.05	42.83	40.52	34.94	51.30	68.20	-16.90 peak

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**7.9 Radiated Emissions which fall in the restricted bands**

Test Requirement 47 CFR Part 15, Subpart C 15.209 &amp; 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: 24 °C

Humidity: 55 % RH

Atmospheric Pressure: 1000 mbar

**7.9.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and

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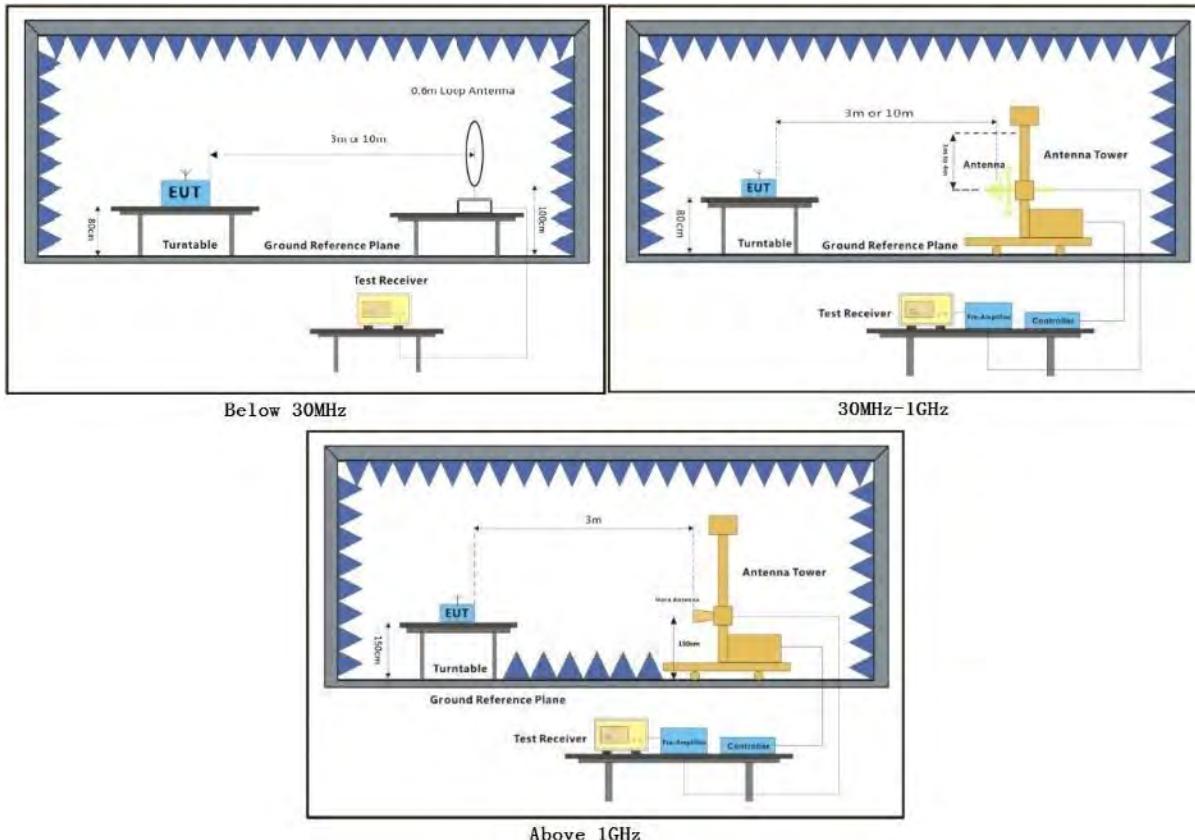
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		found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.
Final test	01	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). Only the data of worst case is recorded in the report.

### 7.9.3 Test Setup Diagram



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#### 7.9.4 Measurement Procedure and Data

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

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



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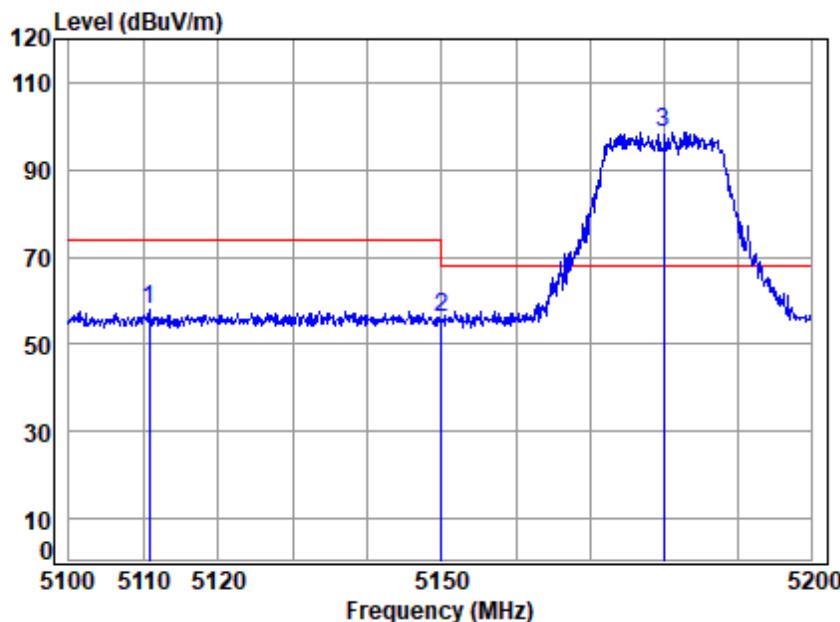
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Antenna 1 & 2 were tested for Modulation: 802.11a. Only the worst case(Antenna 1) was recorded in the report.

Antenna 1, 2 & 1+2, were tested for Modulation: 802.11n(HT20),n(HT40). Only the worst case(Antenna 1+2) was recorded in the report.

For Band 1:

Test Mode: 00; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5180 Band edge  
: 5G WIFI 11A

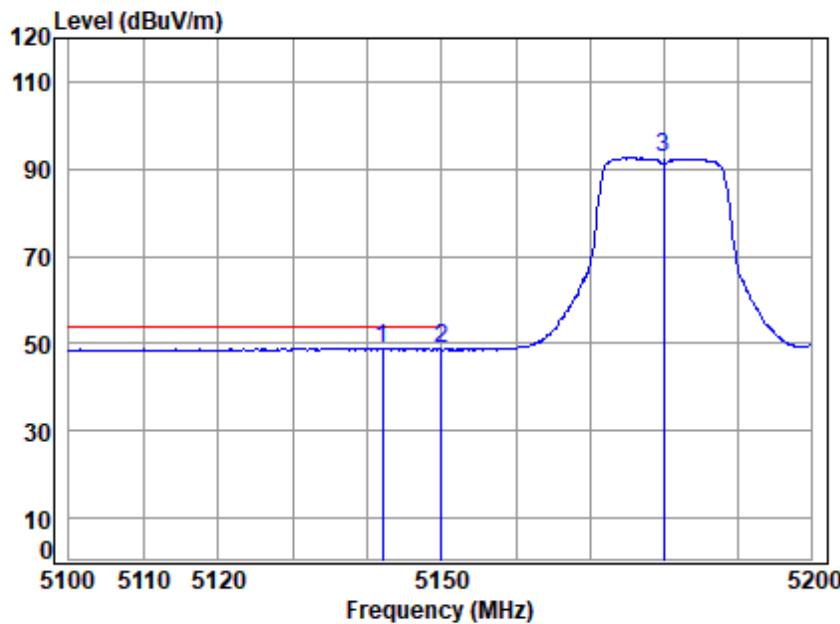
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5110.707	7.50	34.29	42.82	58.94	57.91	74.00	-16.09 peak
2	5149.980	7.57	34.32	42.79	57.14	56.24	74.00	-17.76 peak
3 *	5180.000	7.63	34.35	42.77	99.42	98.63	68.20	30.43 peak

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5180 Band edge  
: 5G WIFI 11A

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5142.063	7.56	34.32	42.80	49.86	48.94	54.00	-5.06 Average
2 5149.980	7.57	34.32	42.79	49.61	48.71	54.00	-5.29 Average
3 5180.000	7.63	34.35	42.77	93.33	92.54	-----	Average

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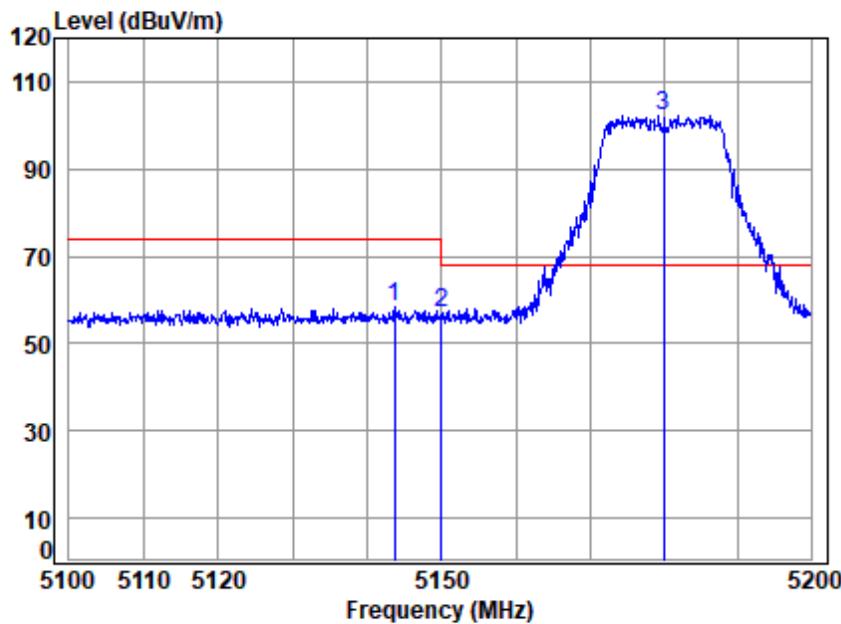
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Test Mode: 00; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 08088CR

Mode : 5180 Band edge  
: 5G WIFI 11A

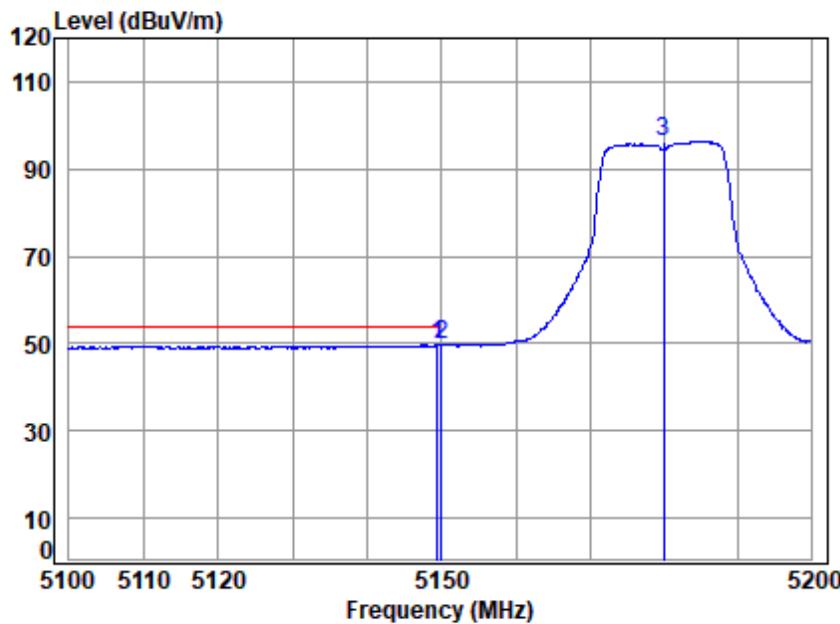
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5143.661	7.56	34.32	42.80	59.16	58.24	74.00	-15.76 Peak
2 5149.980	7.57	34.32	42.79	57.72	56.82	74.00	-17.18 Peak
3 * 5180.000	7.63	34.35	42.77	102.88	102.09	68.20	33.89 Peak

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Test Mode: 00; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5180 Band edge  
: 5G WIFI 11A

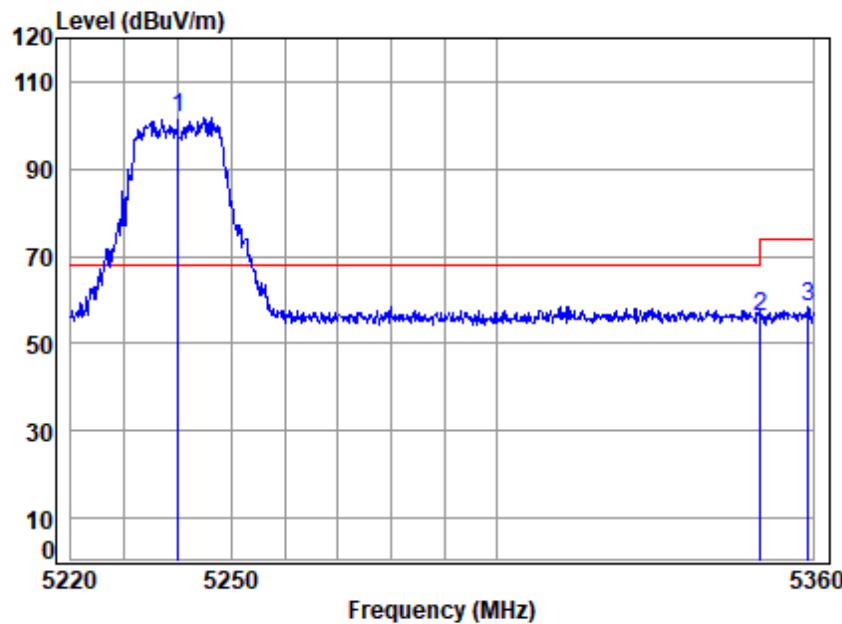
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5149.357	7.57	34.32	42.79	50.63	49.73	54.00	-4.27 Average
2 5149.980	7.57	34.32	42.79	50.60	49.70	54.00	-4.30 Average
3 5180.000	7.63	34.35	42.77	97.06	96.27	-----	Average

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5240 Band edge  
: 5G WIFI 11A

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Freq	Loss	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 * 5240.000	7.73	34.40	42.73	102.37	101.77	68.20	33.57 peak
2 5350.020	7.92	34.48	42.66	56.43	56.17	74.00	-17.83 peak
3 5359.149	7.94	34.49	42.65	58.46	58.24	74.00	-15.76 peak

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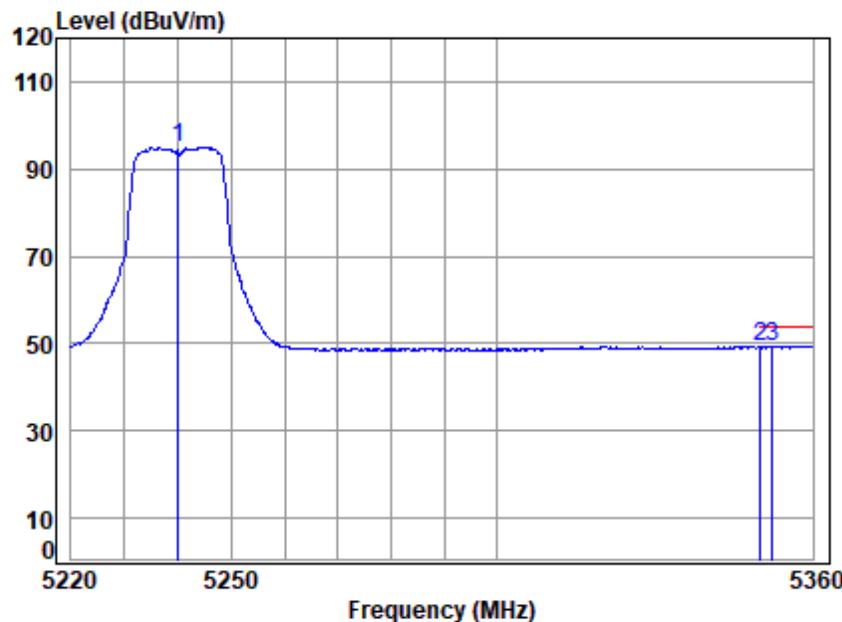
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5240 Band edge  
: 5G WIFI 11A

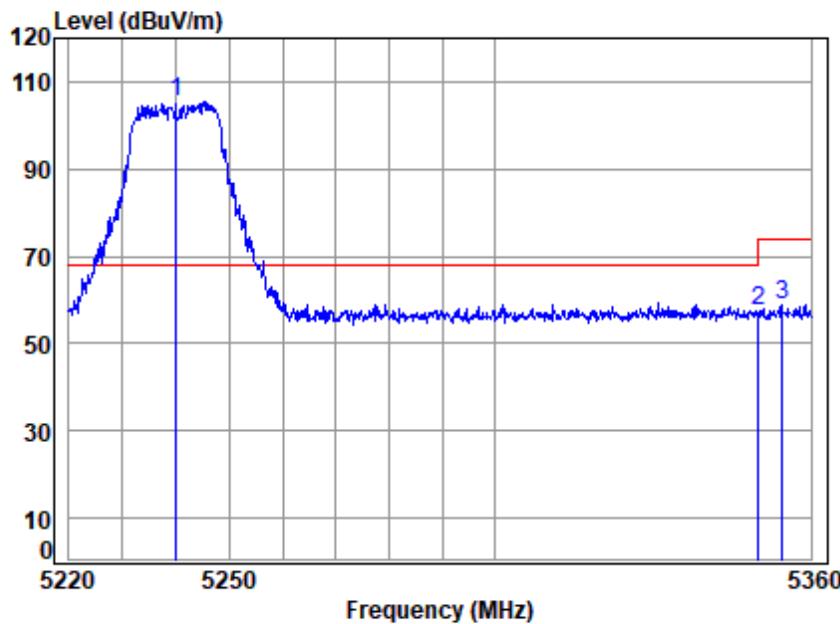
Freq	Cable	Ant	Preamp	Read	Limit Line	Over Limit	Remark
	Freq	Loss	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	
1 5240.000	7.73	34.40	42.73	95.72	95.12	-----	Average
2 5350.020	7.92	34.48	42.66	49.32	49.06	54.00	-4.94 Average
3 5352.203	7.93	34.49	42.65	49.69	49.46	54.00	-4.54 Average

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Test Mode: 00; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5240 Band edge  
: 5G WIFI 11A

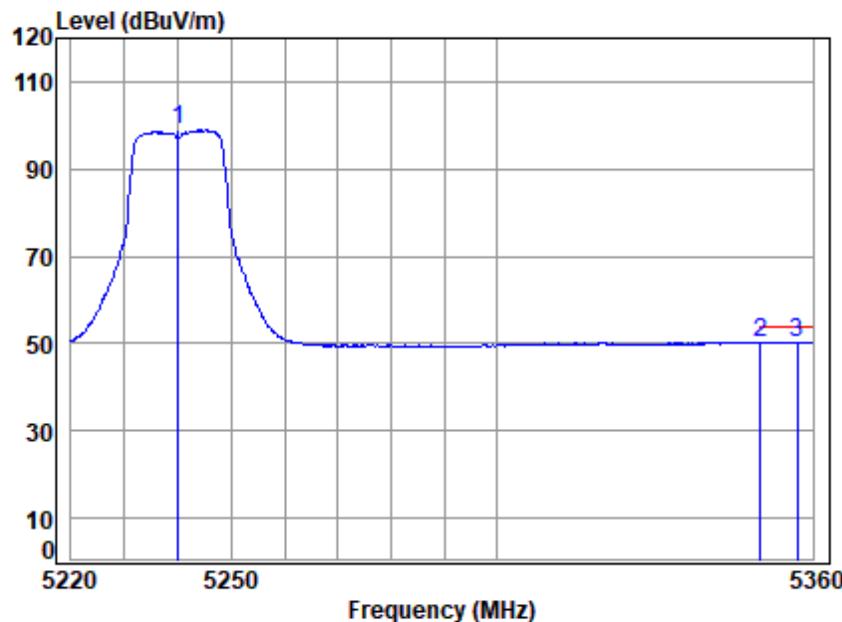
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Freq	Loss	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 * 5240.000	7.73	34.40	42.73	105.86	105.26	68.20	37.06 Peak
2 5350.020	7.92	34.48	42.66	57.67	57.41	74.00	-16.59 Peak
3 5354.470	7.93	34.49	42.65	59.18	58.95	74.00	-15.05 Peak

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Test Mode: 00; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5240 Band edge  
: 5G WIFI 11A

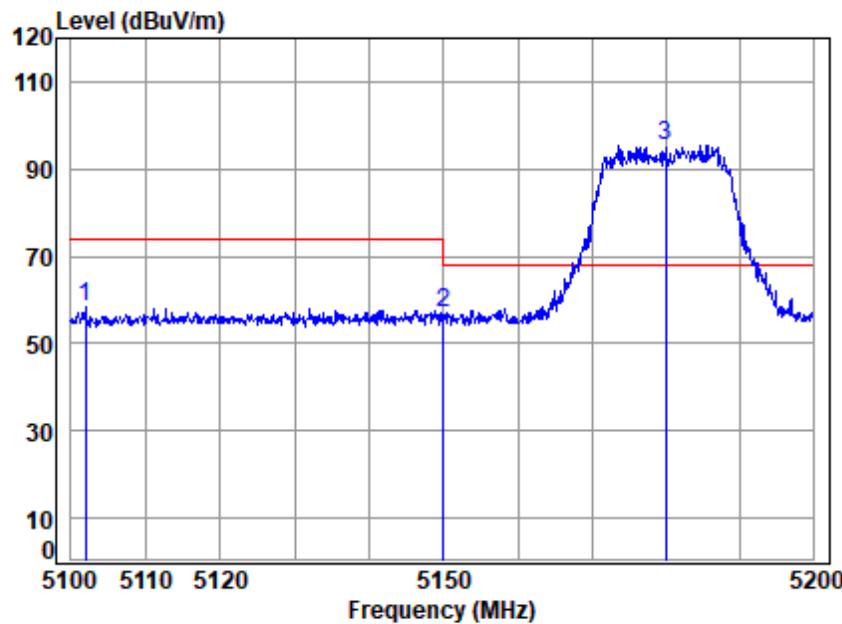
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5240.000	7.73	34.40	42.73	99.43	98.83	-----	Average
2 5350.020	7.92	34.48	42.66	50.52	50.26	54.00	-3.74 Average
3 5357.022	7.94	34.49	42.65	50.61	50.39	54.00	-3.61 Average

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5180 Band edge  
: 5G WIFI 11N20

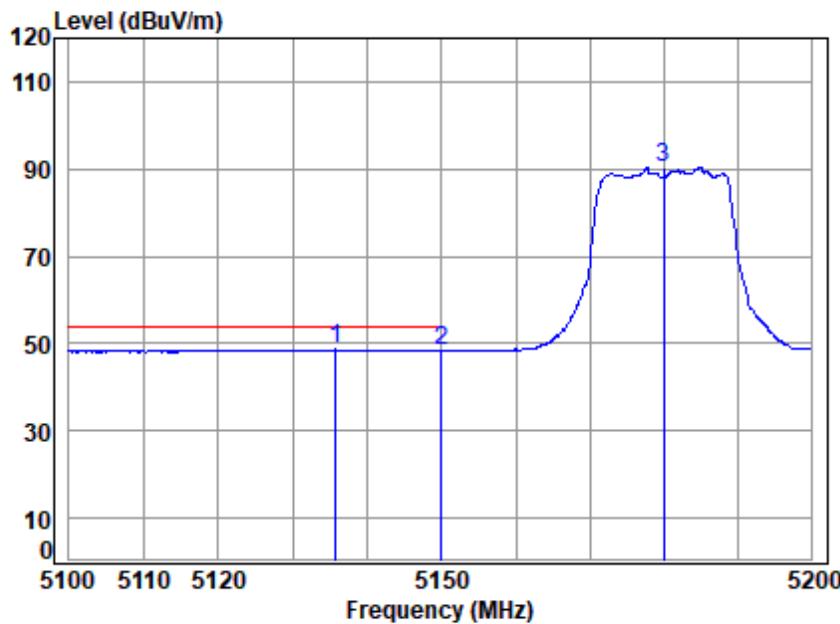
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5101.882	7.49	34.28	42.83	59.45	58.39	74.00	-15.61 peak
2 5149.980	7.57	34.32	42.79	57.92	57.02	74.00	-16.98 peak
3 * 5180.000	7.63	34.35	42.77	96.37	95.58	68.20	27.38 peak

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5180 Band edge  
: 5G WIFI 11N20

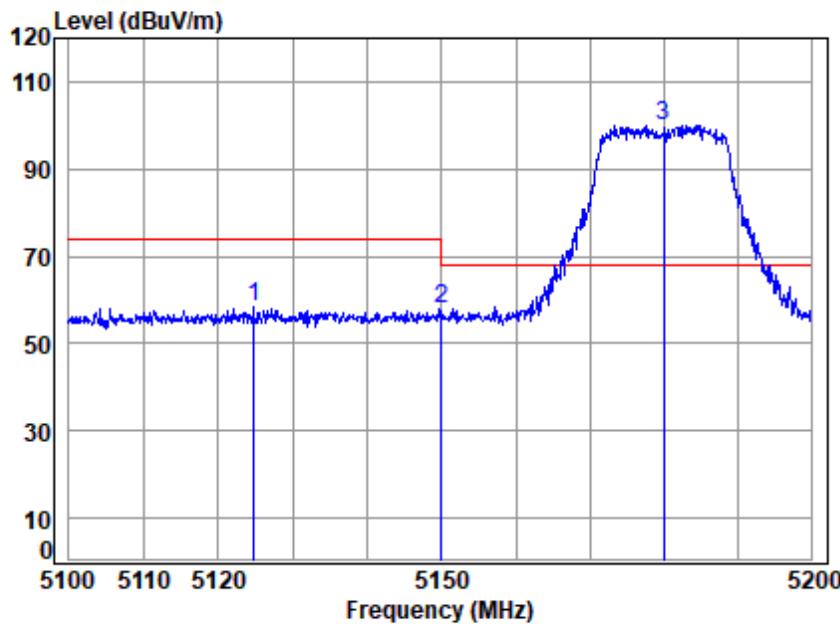
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5135.677	7.55	34.31	42.80	49.60	48.66	54.00	-5.34 Average
2 5149.980	7.57	34.32	42.79	49.33	48.43	54.00	-5.57 Average
3 5180.000	7.63	34.35	42.77	91.12	90.33	-----	Average

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

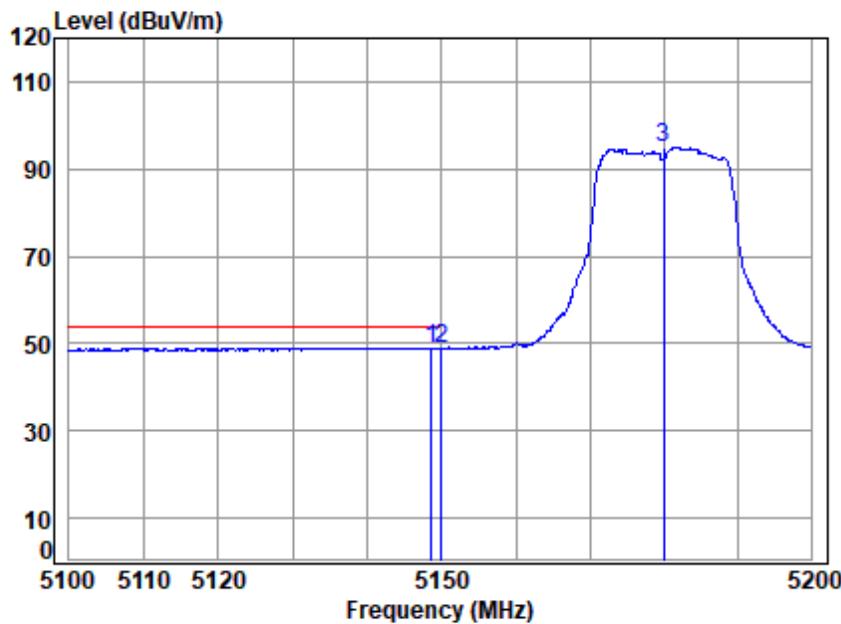
Job No : 08088CR

Mode : 5180 Band edge

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5124.719	7.53	34.30	42.81	59.26	58.28	74.00	-15.72 Peak
2 5149.980	7.57	34.32	42.79	58.95	58.05	74.00	-15.95 Peak
3 * 5180.000	7.63	34.35	42.77	100.82	100.03	68.20	31.83 Peak



Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5180 Band edge  
: 5G WIFI 11N20

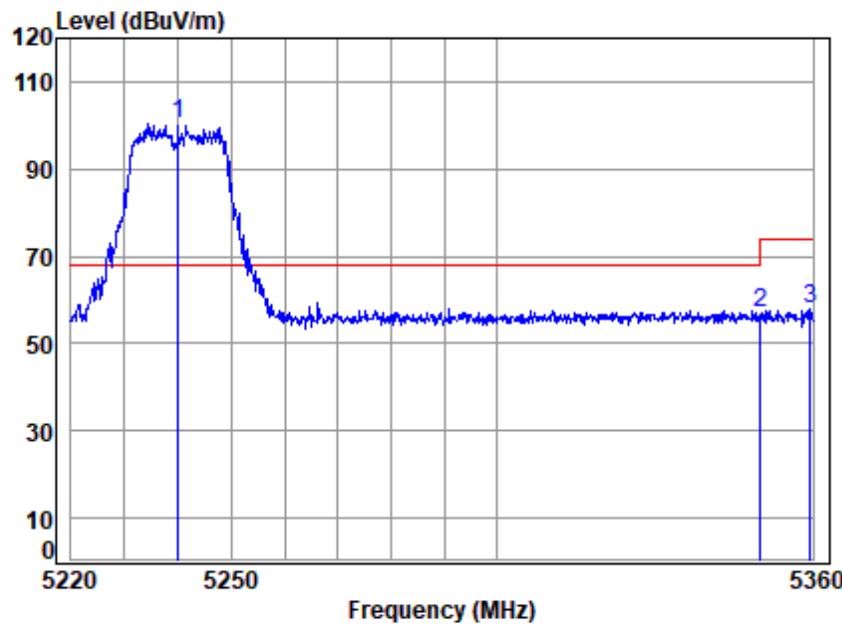
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5148.657	7.57	34.32	42.79	49.89	48.99	54.00	-5.01 Average
2 5149.980	7.57	34.32	42.79	49.84	48.94	54.00	-5.06 Average
3 5180.000	7.63	34.35	42.77	95.81	95.02	-----	Average

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



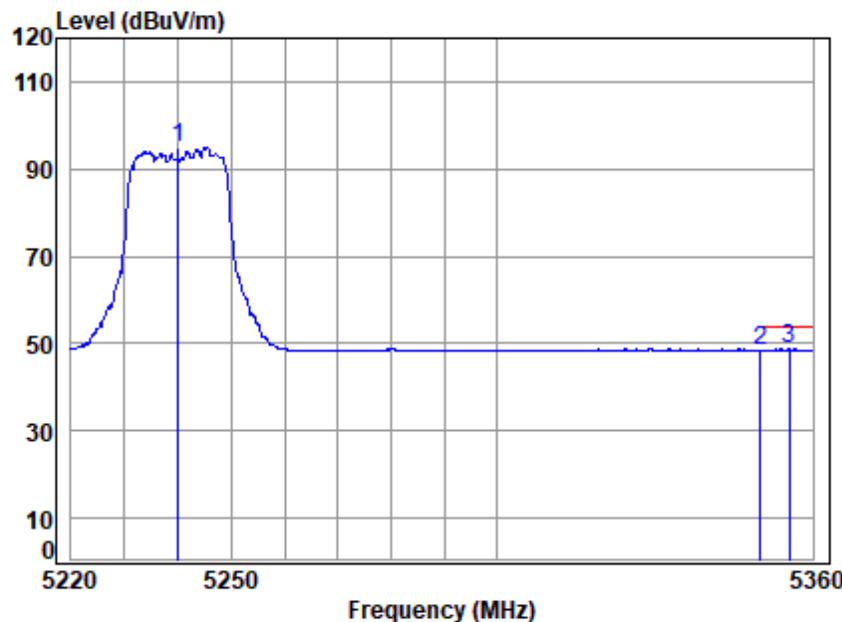
Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5240 Band edge  
: 5G WIFI 11N20

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	100.82	100.22	68.20	32.02 peak
2 5350.020	7.92	34.48	42.66	57.17	56.91	74.00	-17.09 peak
3 5359.574	7.94	34.49	42.65	58.05	57.83	74.00	-16.17 peak

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5240 Band edge  
: 5G WIFI 11N20

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	95.31	94.71	-----	Average
2 5350.020	7.92	34.48	42.66	48.79	48.53	54.00	-5.47 Average
3 5355.462	7.93	34.49	42.65	48.99	48.76	54.00	-5.24 Average

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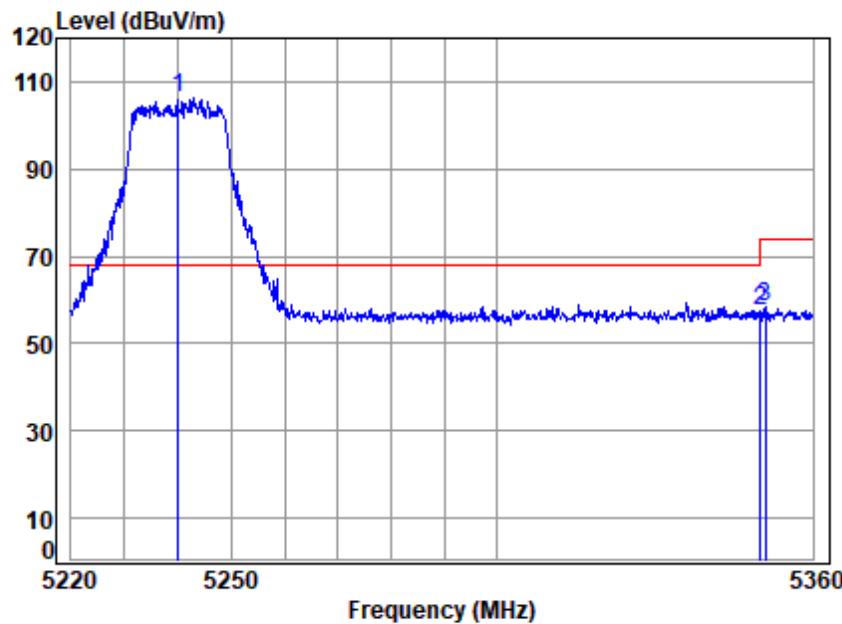
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Shenzhen Branch Quality Control Laboratory

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5240 Band edge  
: 5G WIFI 11N20

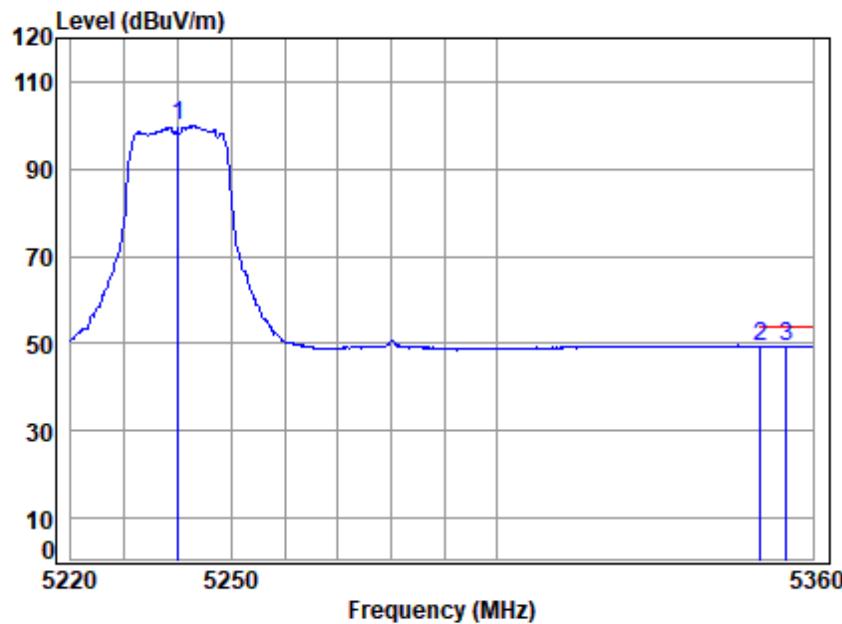
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 * 5240.000	7.73	34.40	42.73	106.98	106.38	68.20	38.18 Peak
2 5350.020	7.92	34.48	42.66	57.64	57.38	74.00	-16.62 Peak
3 5350.929	7.93	34.48	42.65	58.62	58.38	74.00	-15.62 Peak

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



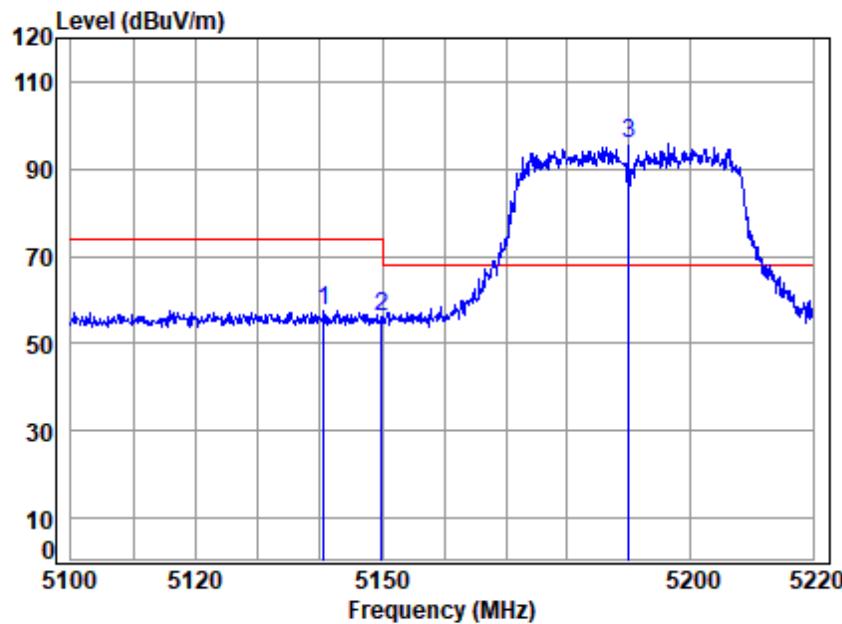
Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5240 Band edge  
: 5G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level			
1	5240.000	7.73	34.40	42.73	100.33	99.73	----- Average
2	5350.020	7.92	34.48	42.66	49.62	49.36	54.00 -4.64 Average
3	5354.896	7.93	34.49	42.65	49.71	49.48	54.00 -4.52 Average

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5190 Band edge  
: 5G WIFI 11N40

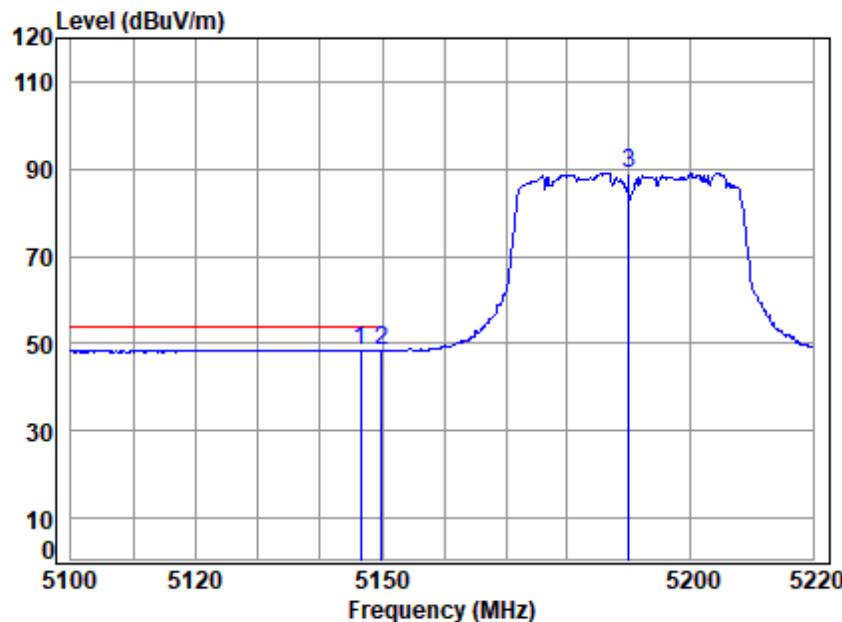
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5140.607	7.56	34.32	42.80	58.53	57.61	74.00	-16.39 peak
2 5149.980	7.57	34.32	42.79	57.08	56.18	74.00	-17.82 peak
3 * 5190.000	7.64	34.36	42.77	96.41	95.64	68.20	27.44 peak

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



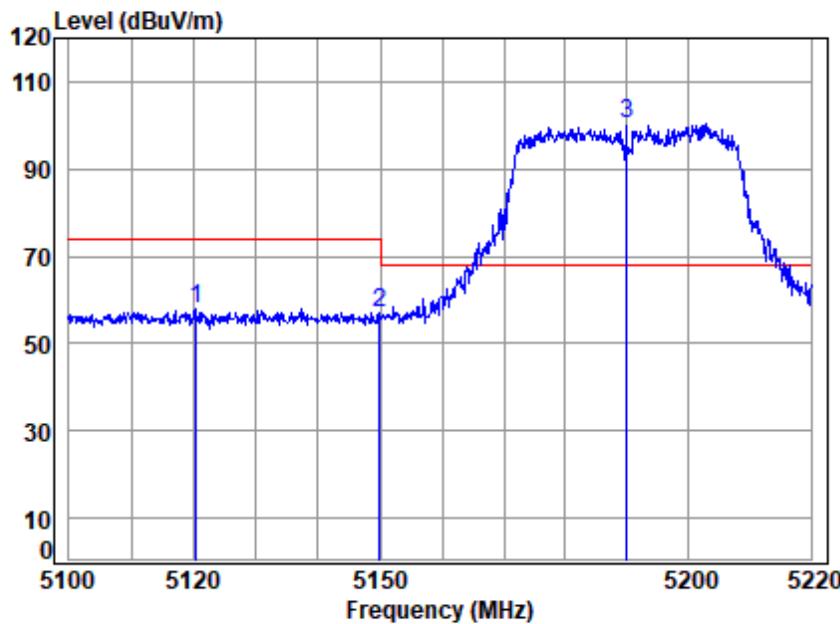
Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5190 Band edge  
: 5G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5146.588	7.57	34.32	42.80	49.48	48.57	54.00	-5.43 Average
2 5149.980	7.57	34.32	42.79	49.33	48.43	54.00	-5.57 Average
3 5190.000	7.64	34.36	42.77	89.80	89.03	-----	Average

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5190 Band edge  
: 5G WIFI 11N40

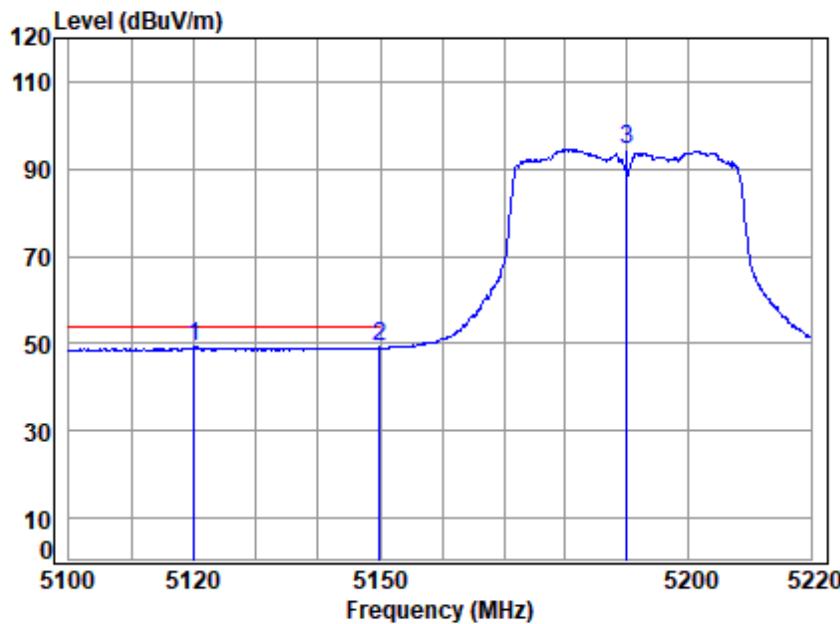
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5120.323	7.52	34.30	42.81	59.03	58.04	74.00	-15.96 Peak
2 5149.980	7.57	34.32	42.79	57.90	57.00	74.00	-17.00 Peak
3 * 5190.000	7.64	34.36	42.77	100.97	100.20	68.20	32.00 Peak

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5190 Band edge  
: 5G WIFI 11N40

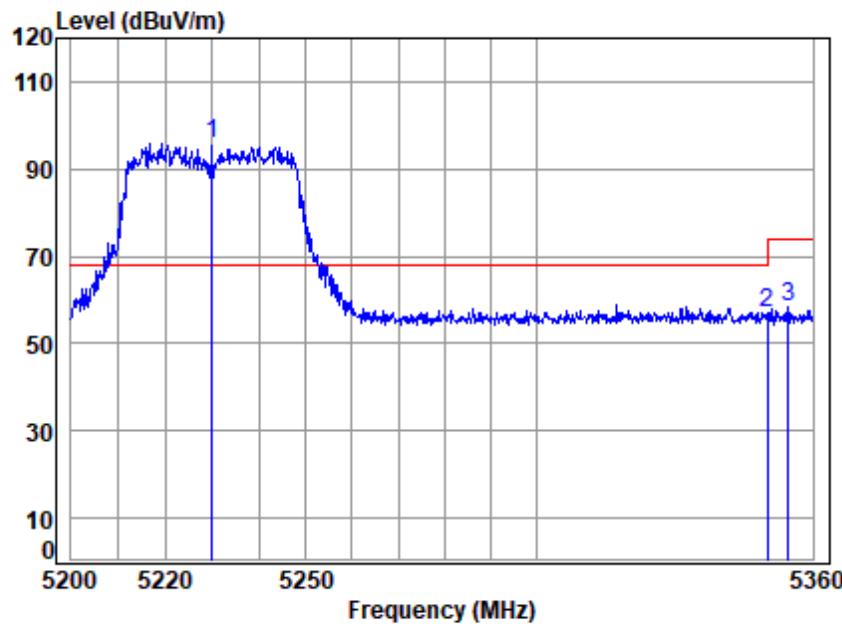
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5120.084	7.52	34.30	42.81	50.17	49.18	54.00	-4.82 Average
2 5149.980	7.57	34.32	42.79	49.97	49.07	54.00	-4.93 Average
3 5190.000	7.64	34.36	42.77	95.08	94.31	-----	Average

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



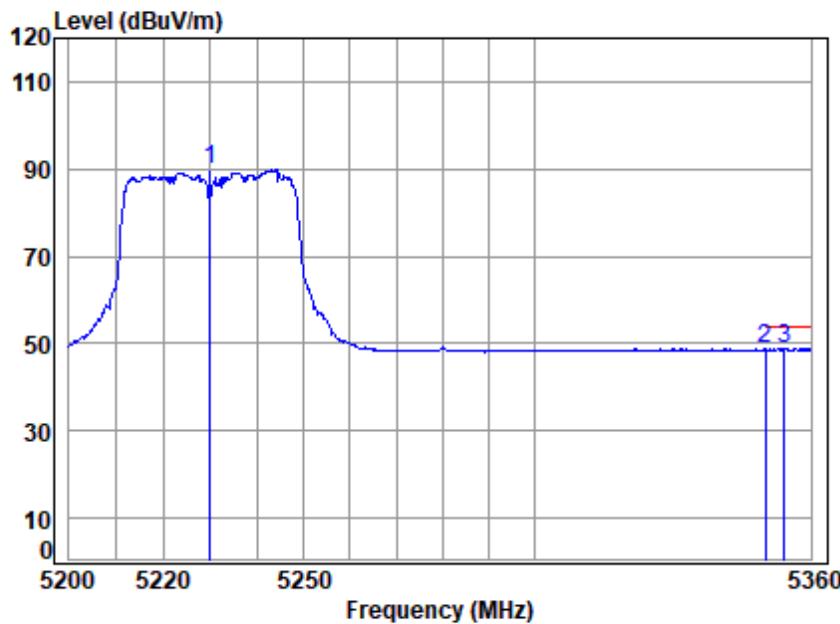
Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5230 Band edge  
: 5G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit Line	Over Limit	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 * 5230.000	7.72	34.39	42.74	96.48	95.85	68.20	27.65 peak
2 5350.020	7.92	34.48	42.66	57.36	57.10	74.00	-16.90 peak
3 5354.642	7.93	34.49	42.65	58.47	58.24	74.00	-15.76 peak

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5230 Band edge  
: 5G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1	5230.000	7.72	34.39	42.74	90.33	89.70	----- Average
2	5350.020	7.92	34.48	42.66	49.01	48.75	54.00 -5.25 Average
3	5354.155	7.93	34.49	42.65	48.96	48.73	54.00 -5.27 Average

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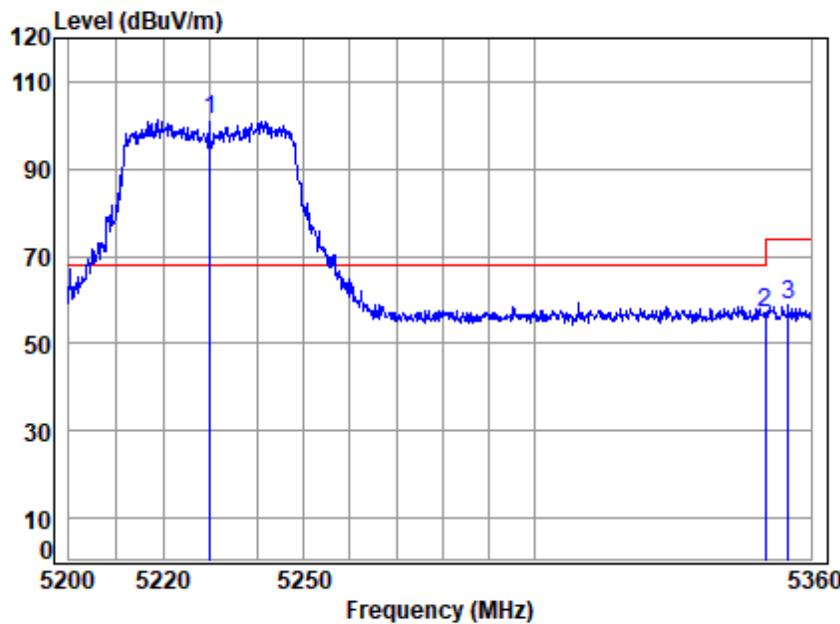
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



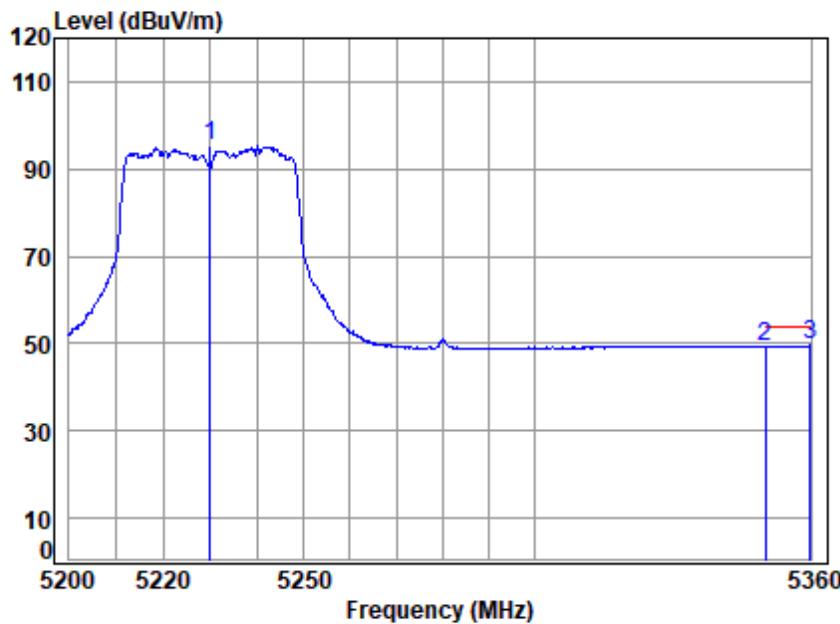
Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5230 Band edge  
: 5G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit Line	Over Limit	Remark
	Freq	Loss	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 * 5230.000	7.72	34.39	42.74	101.99	101.36	68.20	33.16 Peak
2 5350.020	7.92	34.48	42.66	57.45	57.19	74.00	-16.81 Peak
3 5354.967	7.93	34.49	42.65	58.97	58.74	74.00	-15.26 Peak

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5230 Band edge  
: 5G WIFI 11N40

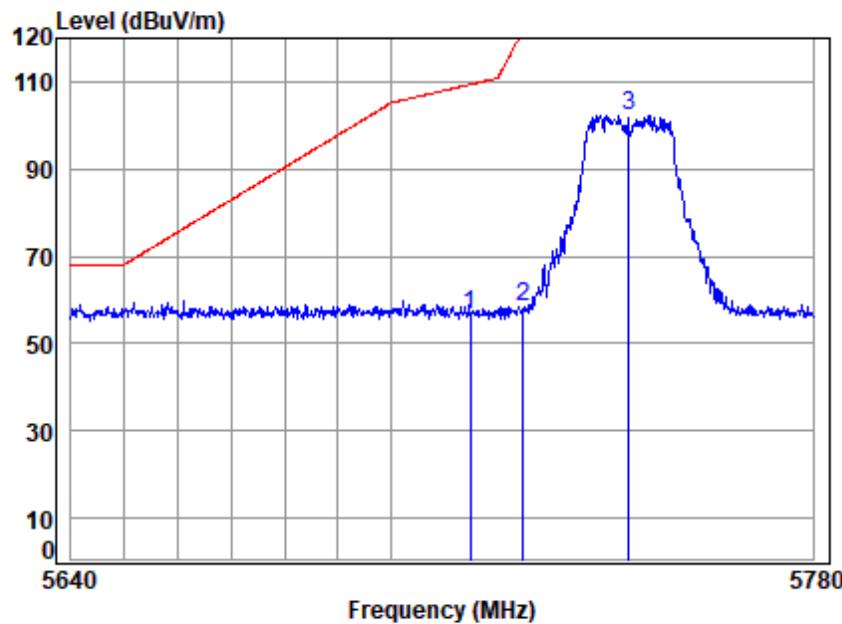
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5230.000	7.72	34.39	42.74	95.78	95.15	-----	Average
2 5350.020	7.92	34.48	42.66	49.71	49.45	54.00	-4.55 Average
3 5359.837	7.94	34.49	42.65	49.74	49.52	54.00	-4.48 Average

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For Band 3:

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



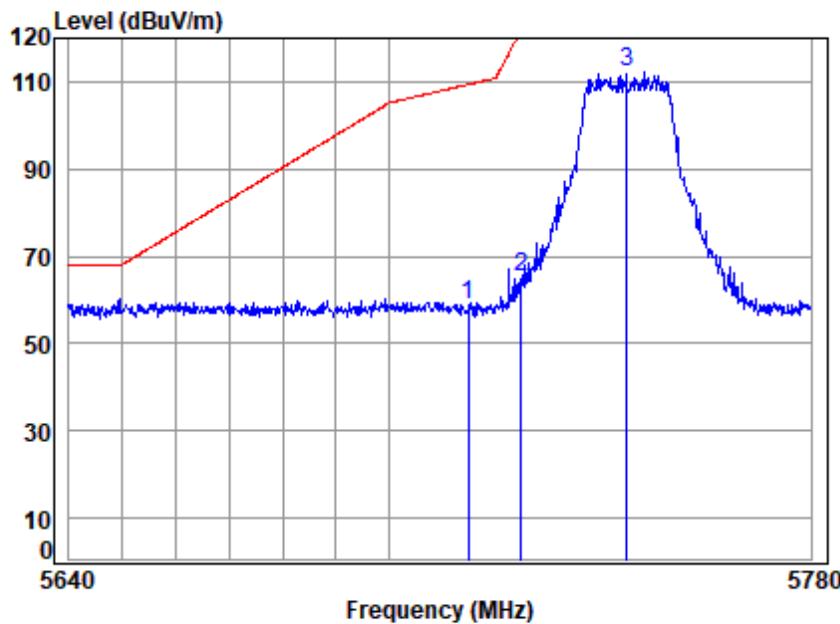
Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5745 Band edge  
: 5G WIFI 11A

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level			
1	5715.000	8.22	34.82	42.42	55.99	56.61	109.40 -52.79 peak
2	5725.000	8.22	34.83	42.41	57.59	58.23	122.20 -63.97 peak
3	5745.000	8.22	34.85	42.40	101.64	102.31	----- ----- peak

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



Site : chamber

Condition: 3m VERTICAL

Job No : 08088CR

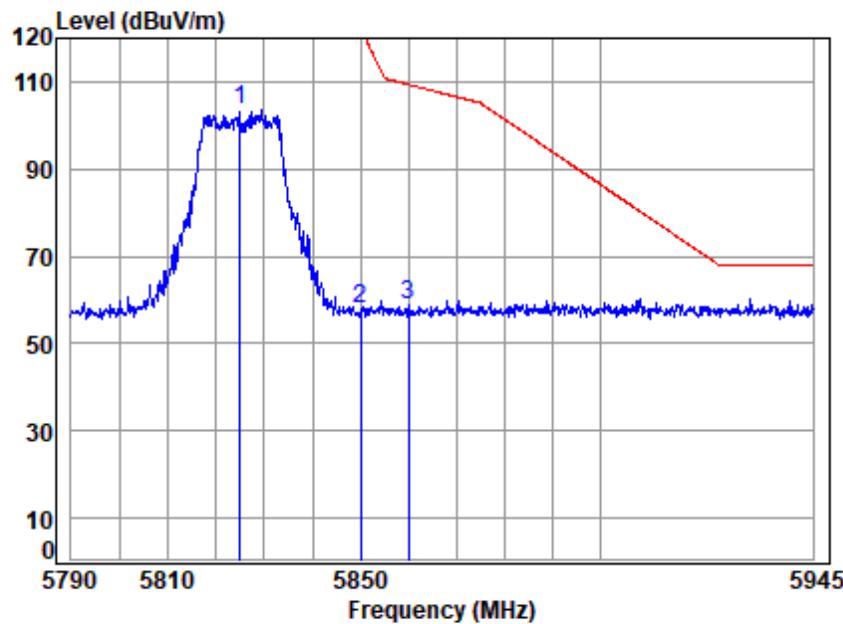
Mode : 5745 Band edge

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5715.000	8.22	34.82	42.42	58.04	58.66	109.40	-50.74 peak
2 5725.000	8.22	34.83	42.41	64.69	65.33	122.20	-56.87 peak
3 5745.000	8.22	34.85	42.40	111.72	112.39	-----	----- peak

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



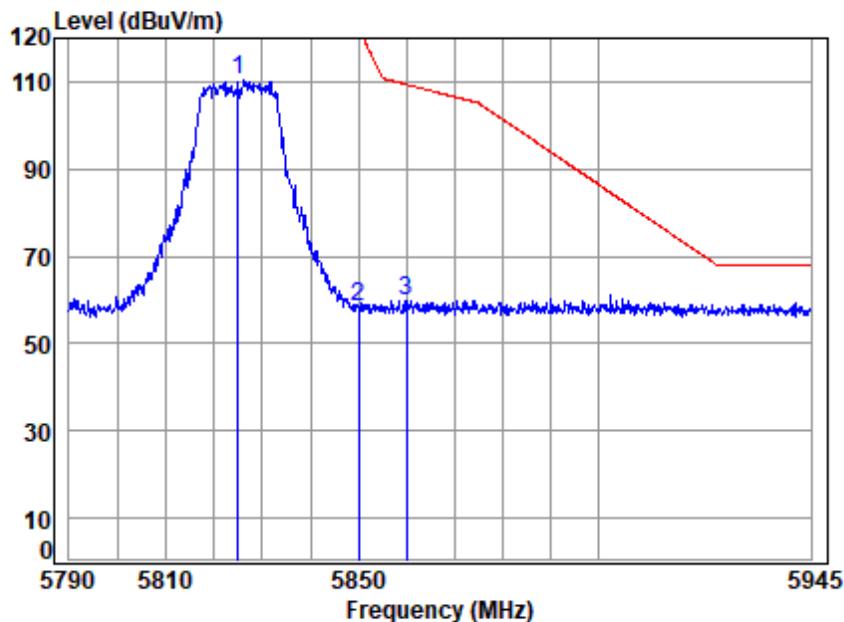
Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5825 Band edge  
: 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	8.23	34.93	42.35	102.61	103.42	-----	peak
2	5850.000	8.24	34.95	42.33	57.03	57.89	122.20	-64.31 peak
3	5860.000	8.24	34.96	42.33	58.21	59.08	109.40	-50.32 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5825 Band edge  
: 5G WIFI 11A

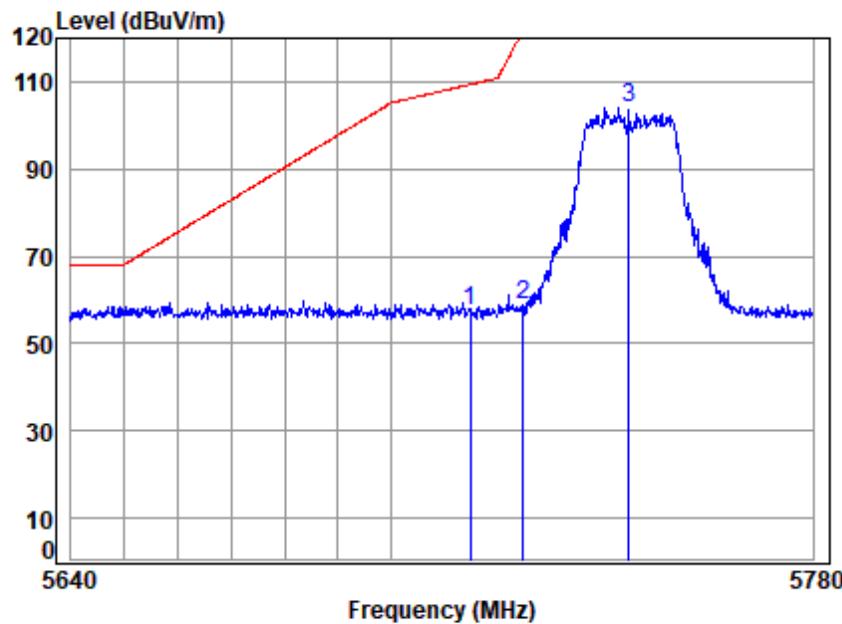
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5825.000	8.23	34.93	42.35	109.77	110.58	-----	peak
2 5850.000	8.24	34.95	42.33	57.60	58.46	122.20	-63.74 peak
3 5860.000	8.24	34.96	42.33	58.85	59.72	109.40	-49.68 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5745 Band edge  
: 5G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit Line	Over Limit	Remark
	Freq	Loss	Factor	Factor			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5715.000	8.22	34.82	42.42	57.04	57.66	109.40	-51.74 peak
2 5725.000	8.22	34.83	42.41	58.26	58.90	122.20	-63.30 peak
3 5745.000	8.22	34.85	42.40	103.54	104.21	-----	----- peak

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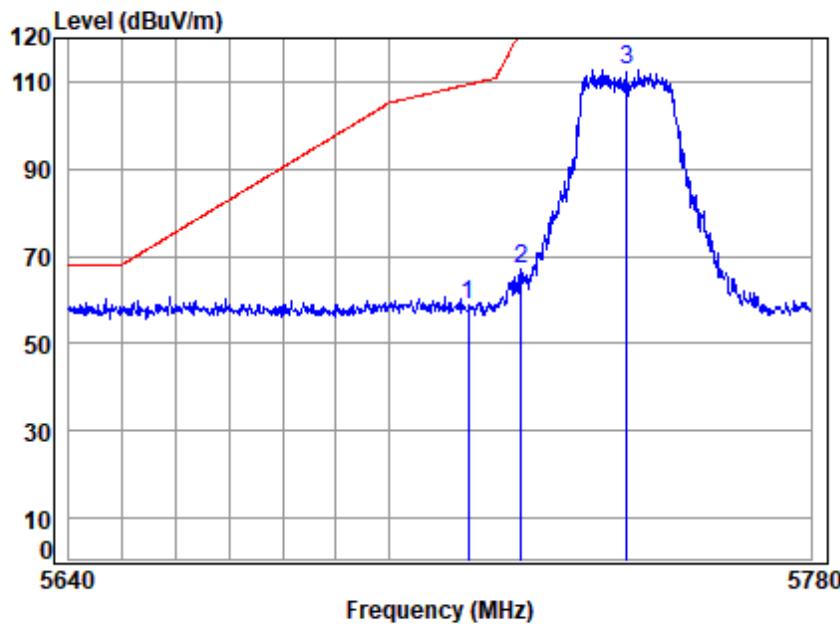
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5745 Band edge  
: 5G WIFI 11N20

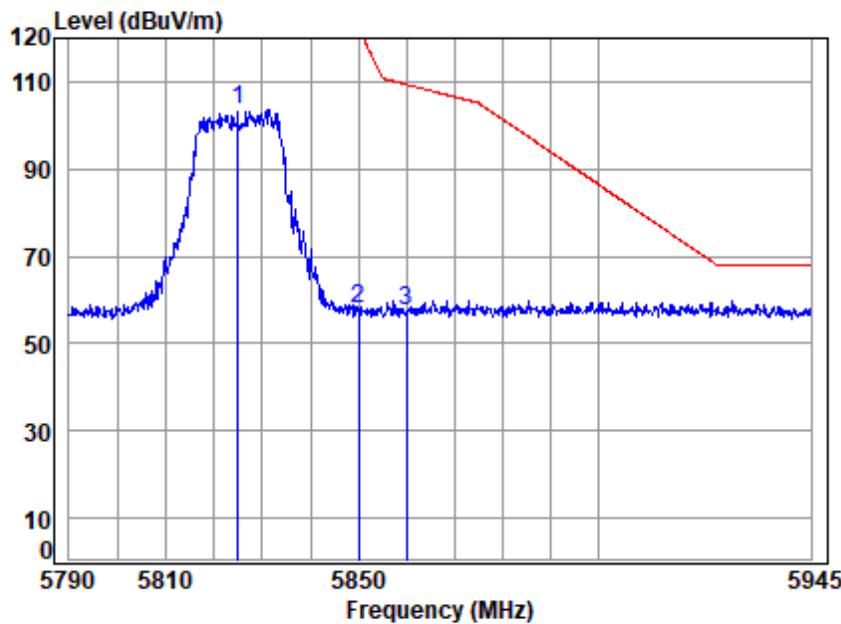
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Freq	Loss	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5715.000	8.22	34.82	42.42	58.05	58.67	109.40	-50.73 peak
2 5725.000	8.22	34.83	42.41	66.55	67.19	122.20	-55.01 peak
3 5745.000	8.22	34.85	42.40	112.09	112.76	-----	----- peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5825 Band edge  
: 5G WIFI 11N20

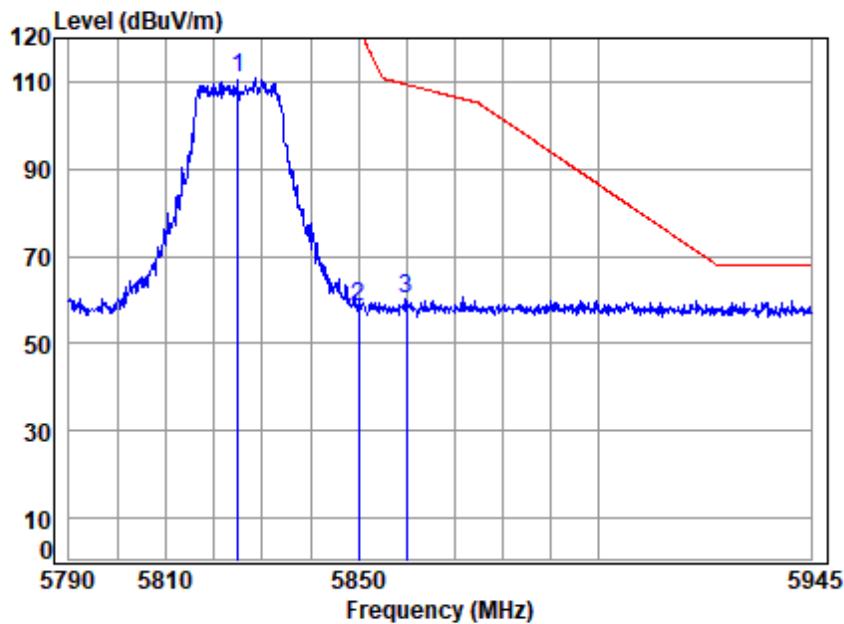
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5825.000	8.23	34.93	42.35	102.78	103.59	-----	peak
2 5850.000	8.24	34.95	42.33	57.29	58.15	122.20	-64.05 peak
3 5860.000	8.24	34.96	42.33	56.62	57.49	109.40	-51.91 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5825 Band edge  
: 5G WIFI 11N20

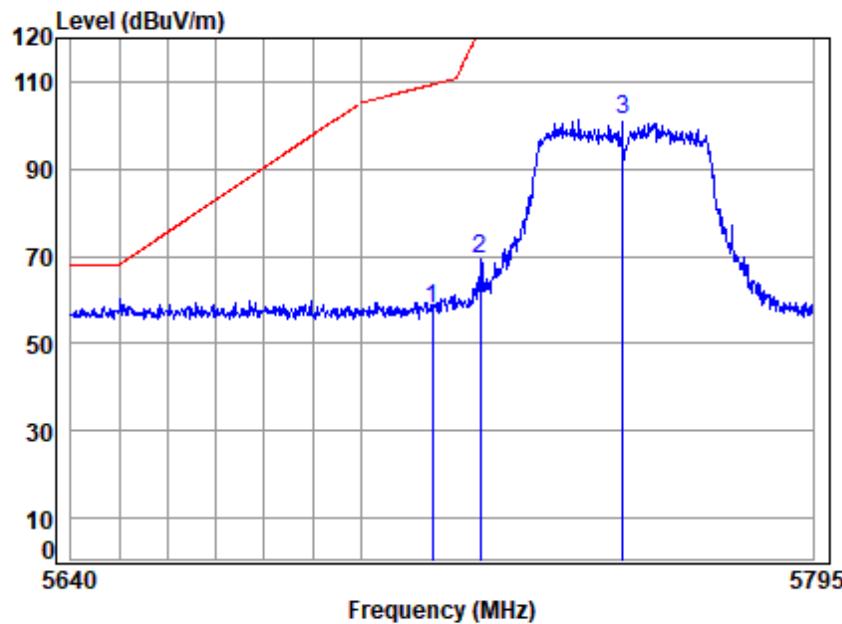
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5825.000	8.23	34.93	42.35	109.89	110.70	-----	peak
2 5850.000	8.24	34.95	42.33	57.51	58.37	122.20	-63.83 peak
3 5860.000	8.24	34.96	42.33	59.23	60.10	109.40	-49.30 peak

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



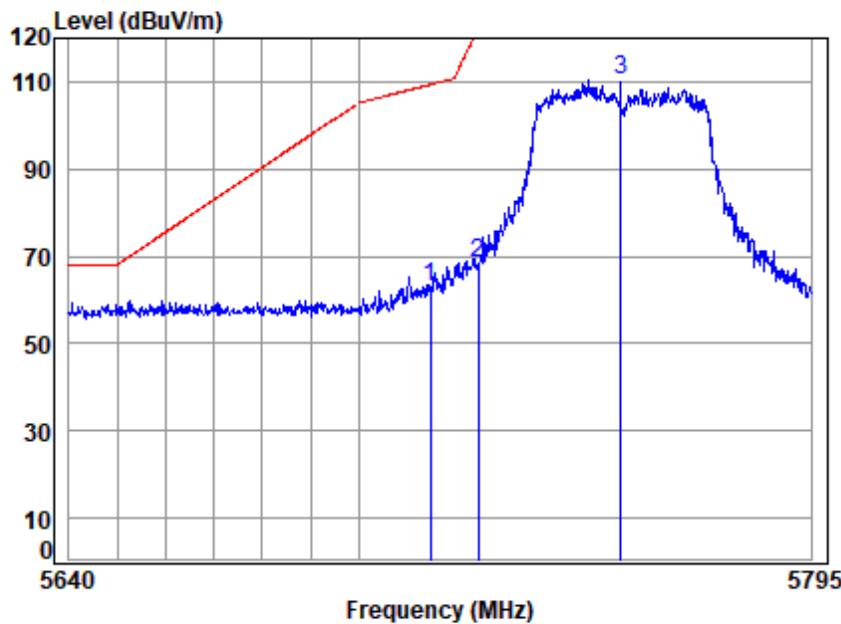
Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5755 Band edge  
: 5G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5715.000	8.22	34.82	42.42	57.40	58.02	109.40	-51.38 peak
2 5725.000	8.22	34.83	42.41	68.68	69.32	122.20	-52.88 peak
3 5755.000	8.22	34.86	42.39	100.51	101.20	-----	----- peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5755 Band edge  
: 5G WIFI 11N40

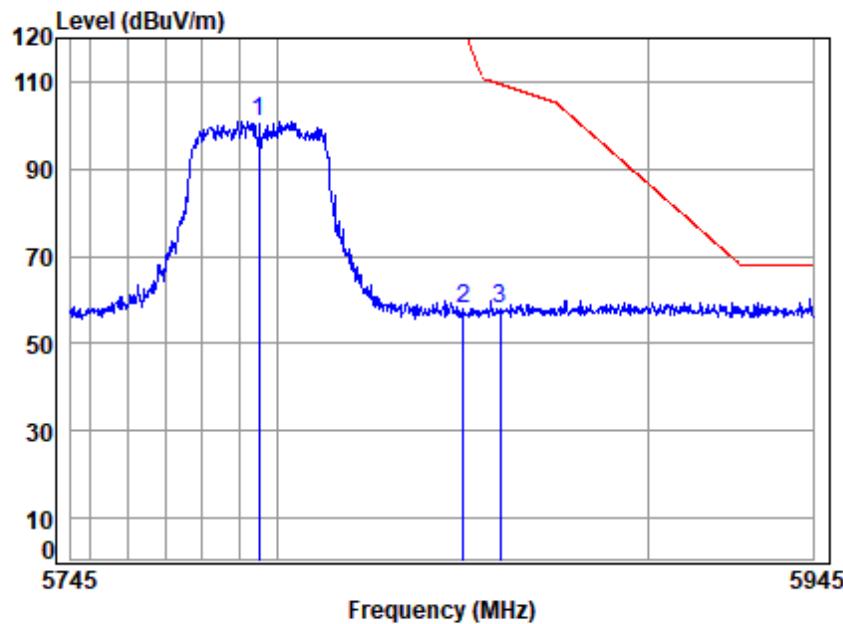
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Freq	Loss	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5715.000	8.22	34.82	42.42	62.51	63.13	109.40	-46.27 peak
2 5725.000	8.22	34.83	42.41	67.72	68.36	122.20	-53.84 peak
3 5755.000	8.22	34.86	42.39	109.66	110.35	-----	----- peak

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



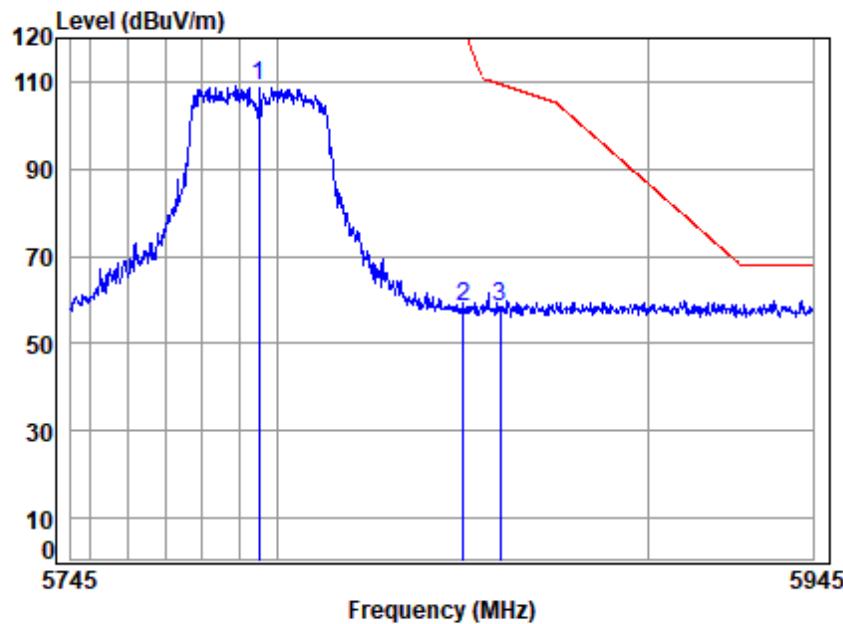
Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 08088CR  
Mode : 5795 Band edge  
: 5G WIFI 11N40

	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	5795.000	8.23	34.90	42.37	100.29	101.05	-----	peak
2	5850.000	8.24	34.95	42.33	56.98	57.84	122.20	-64.36 peak
3	5860.000	8.24	34.96	42.33	57.20	58.07	109.40	-51.33 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 08088CR  
Mode : 5795 Band edge  
: 5G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Freq	Loss	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5795.000	8.23	34.90	42.37	108.23	108.99	-----	peak
2 5850.000	8.24	34.95	42.33	57.46	58.32	122.20	-63.88 peak
3 5860.000	8.24	34.96	42.33	57.45	58.32	109.40	-51.08 peak

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## 7.10 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407

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

### 7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

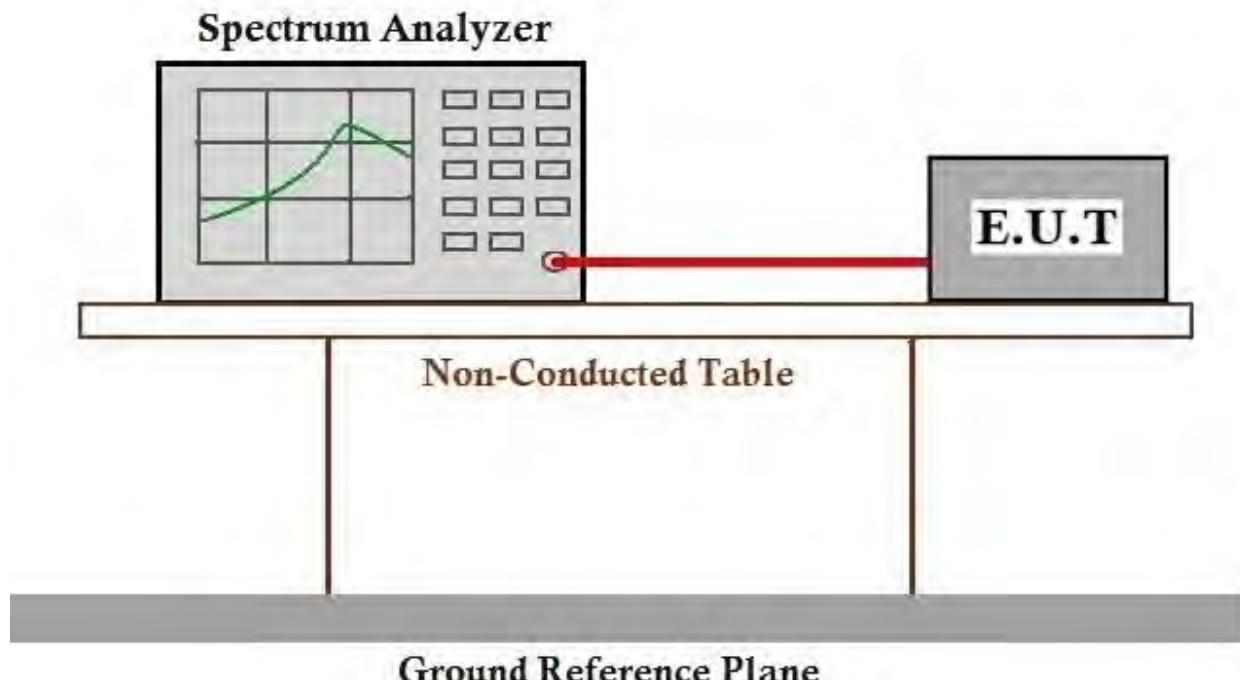
Humidity: 56.3 % RH

Atmospheric Pressure: 1000 mbar

### 7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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), Only the data of worst case is recorded in the report.
Final test	01	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). Only the data of worst case is recorded in the report.

### 7.10.3 Test Setup Diagram



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#### 7.10.4 Measurement Procedure and Data

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



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## 8 Test Setup Photo

Please refer to setup photos.

## 9 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.



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## 10 Appendix

### 10.1 Appendix for 15.407

#### 1. Duty Cycle

##### 1.1 Test Result

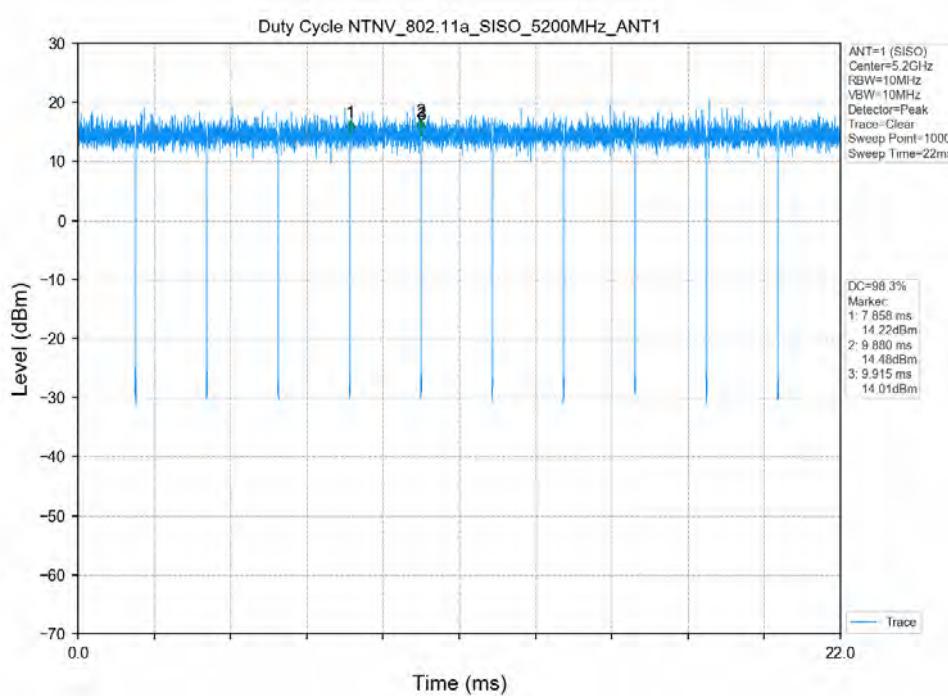
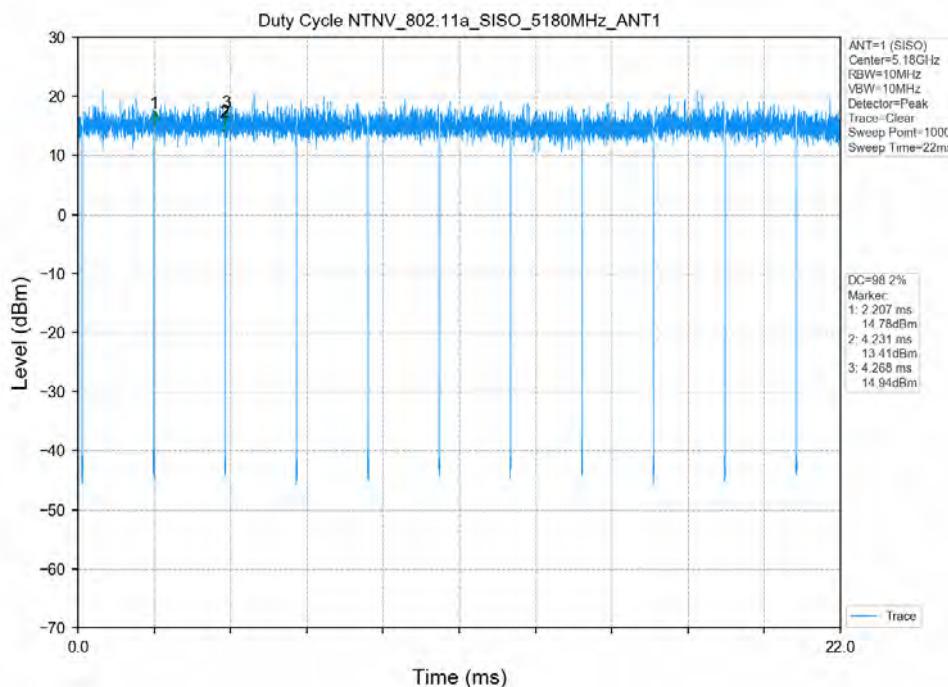
Test Mode	Channel Frequency (MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11a	5180	SISO	1	2.024	2.061	98.20	0.08
	5200	SISO	1	2.022	2.057	98.30	0.07
	5240	SISO	1	2.024	2.062	98.16	0.08
	5745	SISO	1	2.024	2.059	98.30	0.07
	5785	SISO	1	2.024	2.061	98.20	0.08
	5825	SISO	1	2.024	2.061	98.20	0.08
802.11n(HT20)	5180	MIMO	1	1.886	1.922	98.13	0.08
	5200	MIMO	1	1.886	1.922	98.13	0.08
	5240	MIMO	1	1.886	1.922	98.13	0.08
	5745	MIMO	1	1.886	1.922	98.13	0.08
	5785	MIMO	1	1.886	1.922	98.13	0.08
	5825	MIMO	1	1.886	1.922	98.13	0.08
802.11n(HT40)	5190	MIMO	1	0.928	0.963	96.37	0.16
	5230	MIMO	1	0.927	0.962	96.36	0.16
	5755	MIMO	1	0.928	0.963	96.37	0.16
	5795	MIMO	1	0.928	0.963	96.37	0.16

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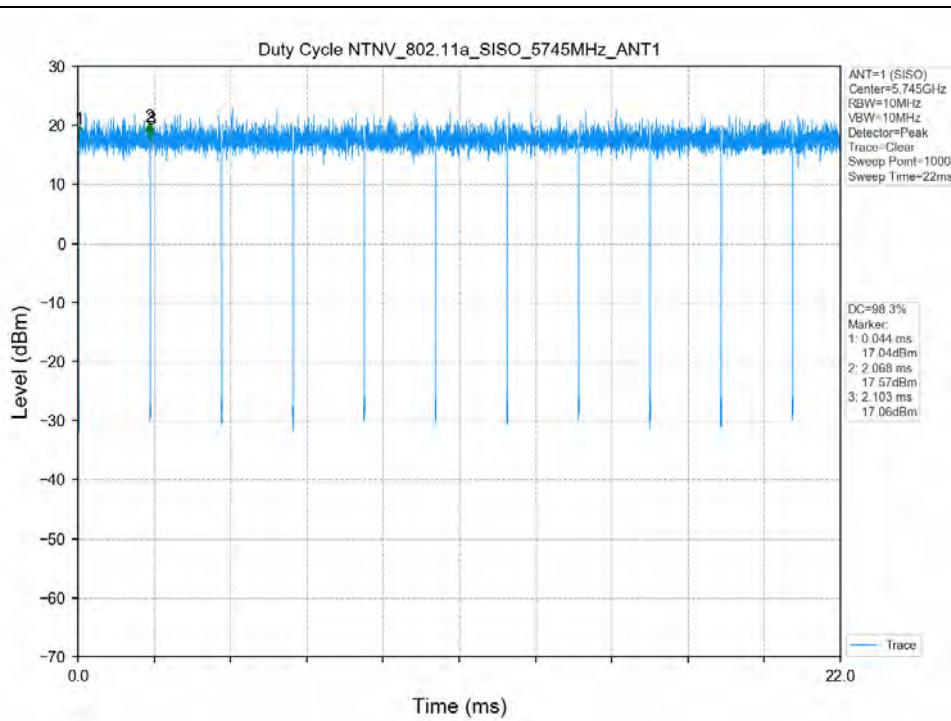
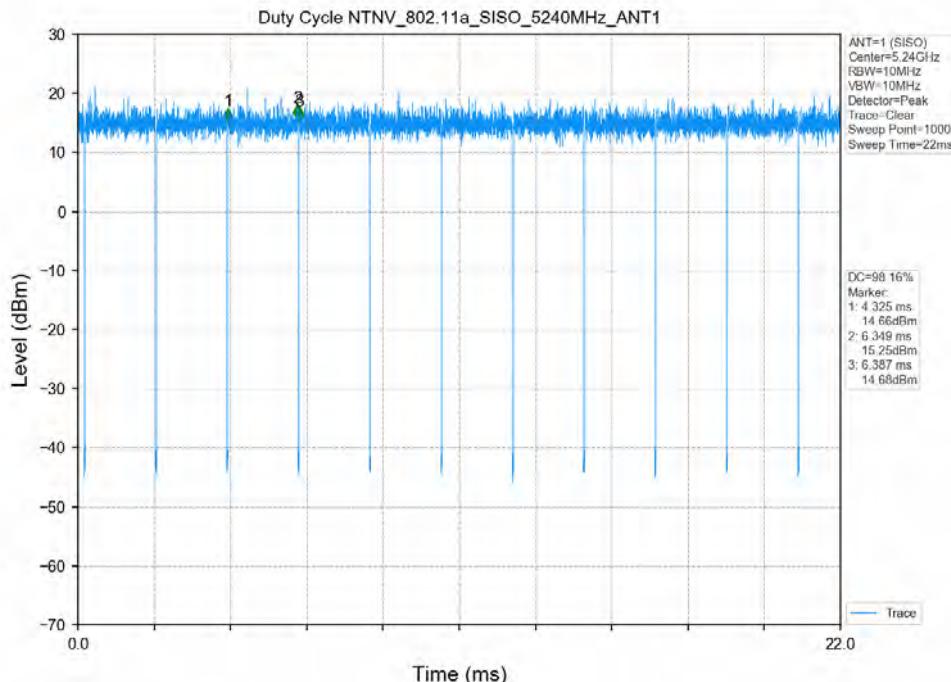


## 1.2 Test Graph



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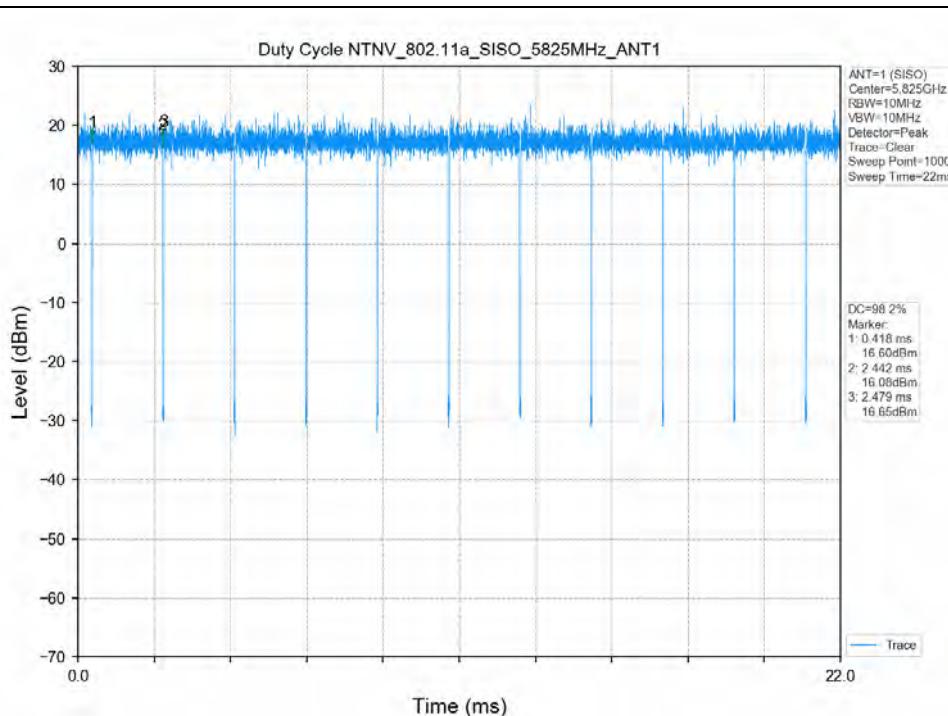
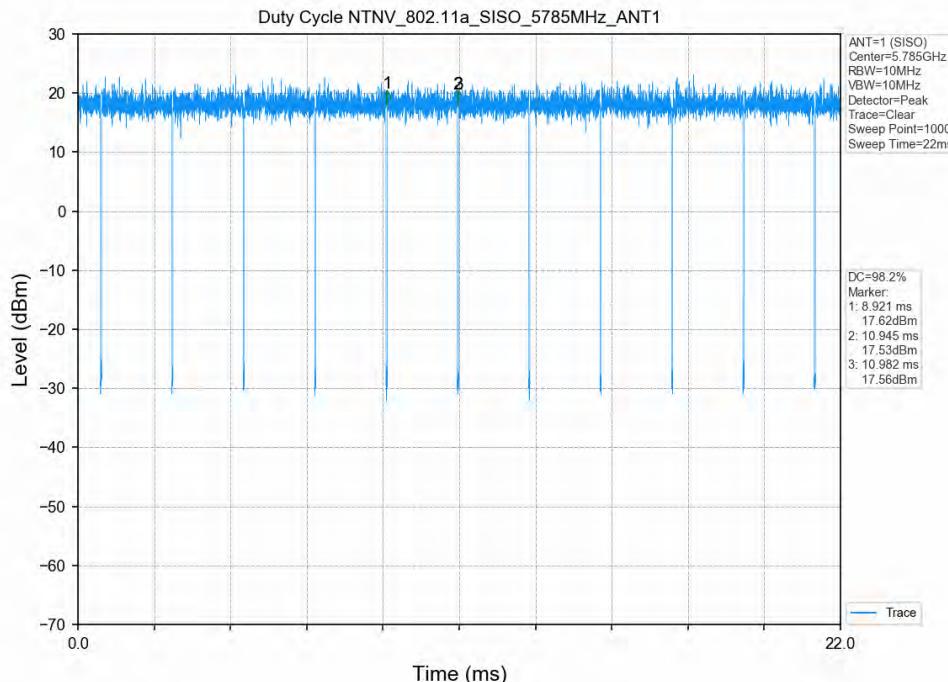
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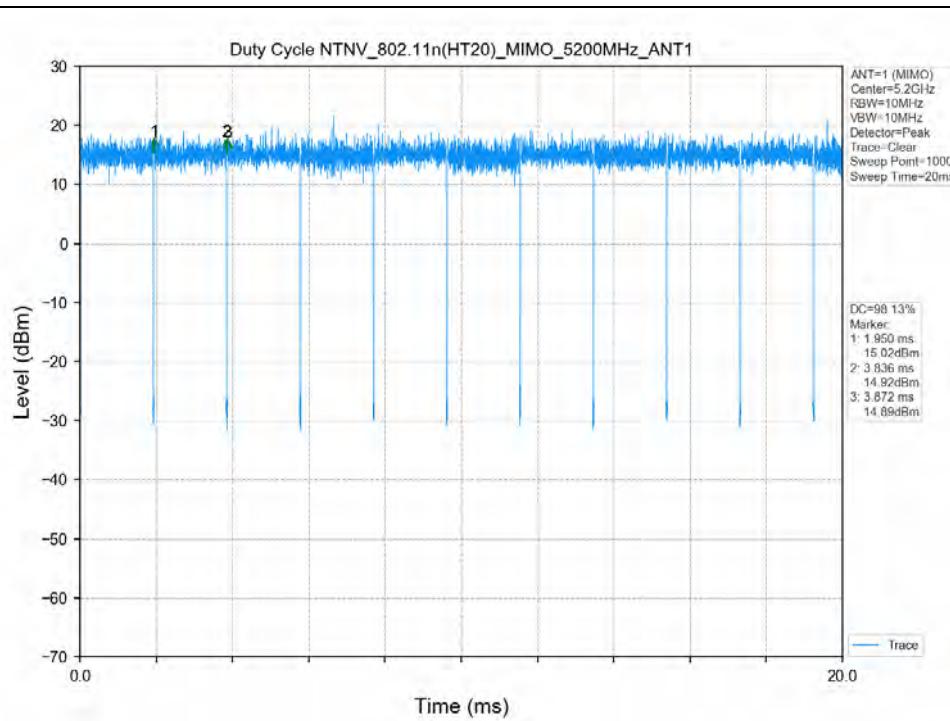
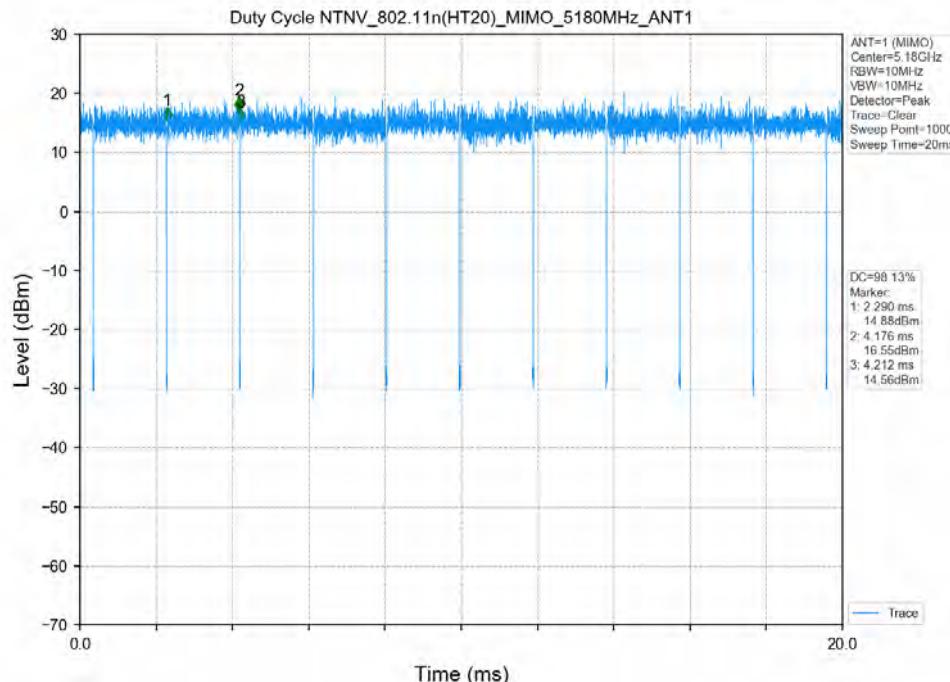
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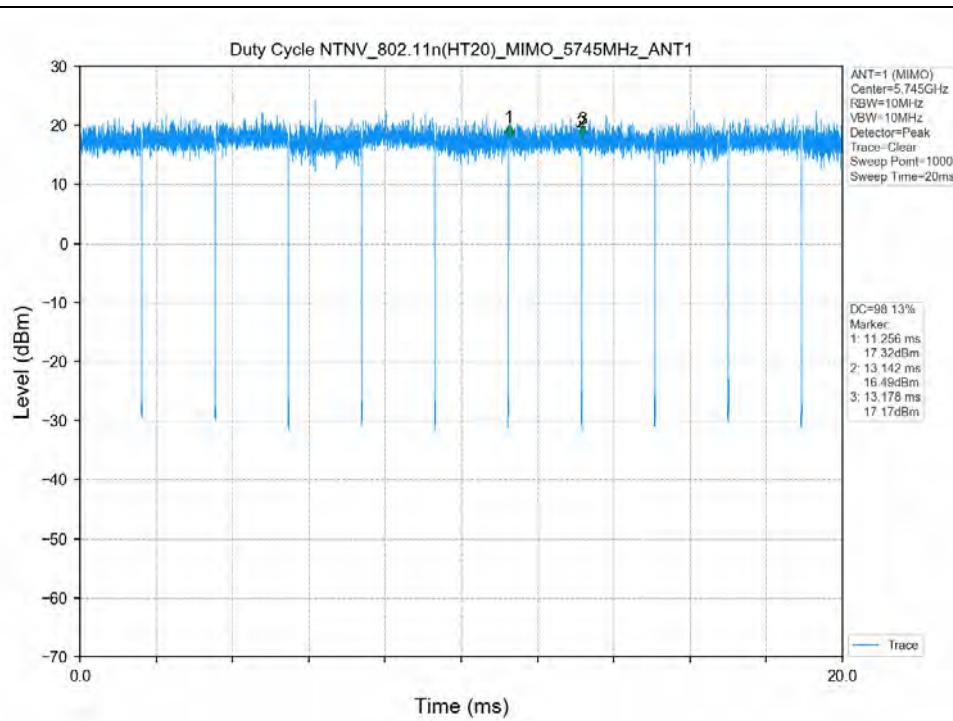
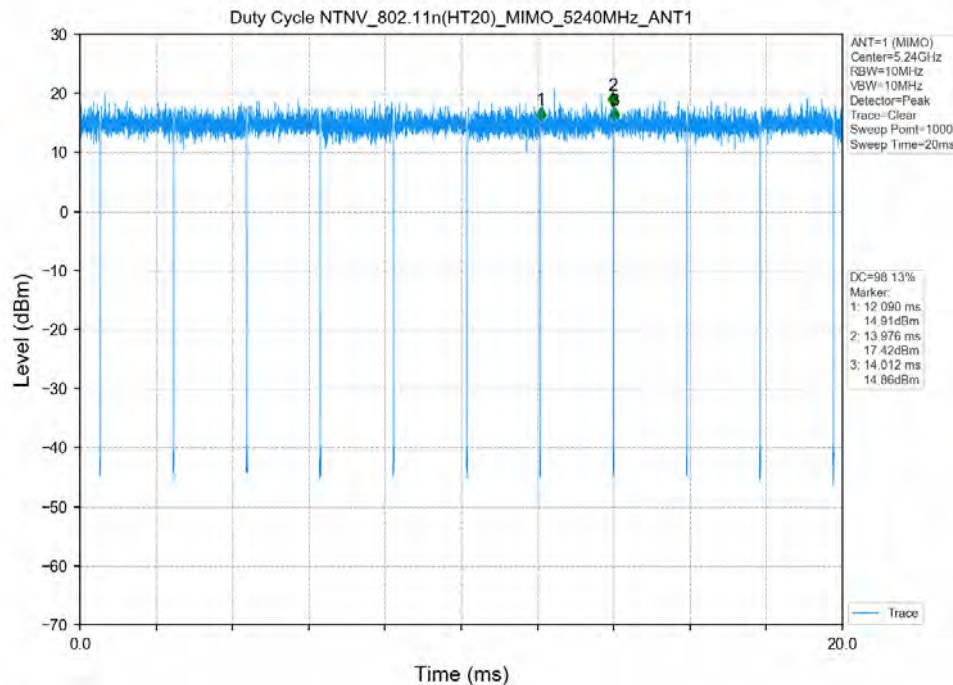
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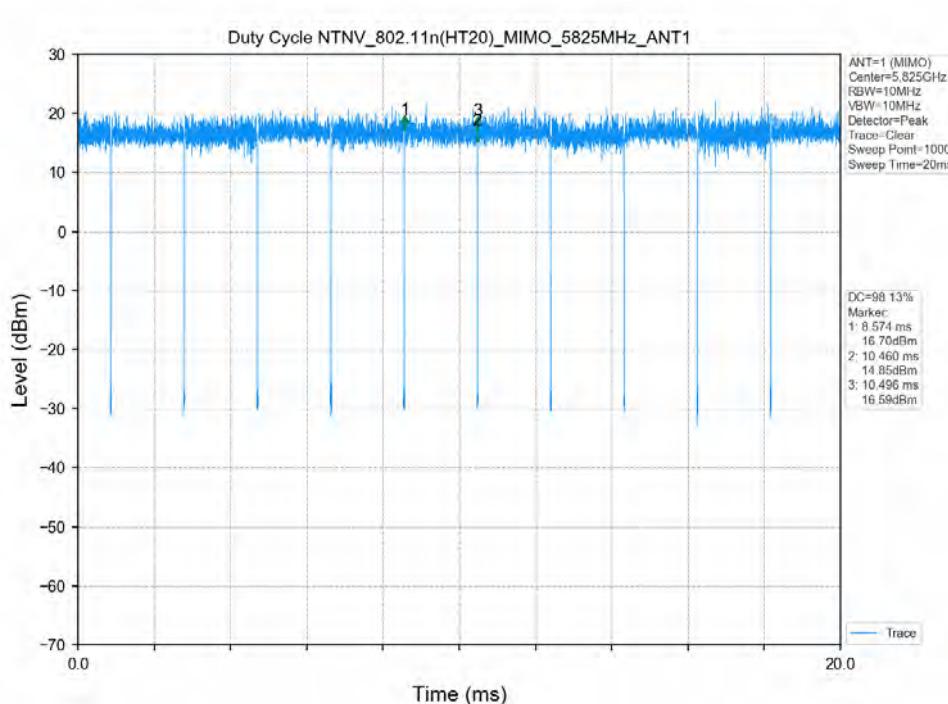
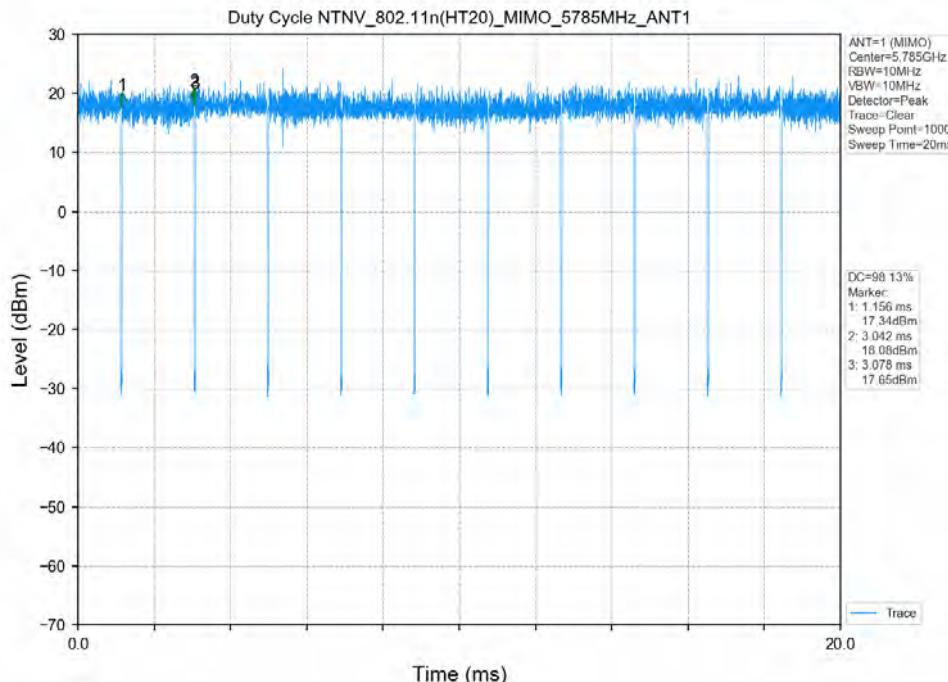
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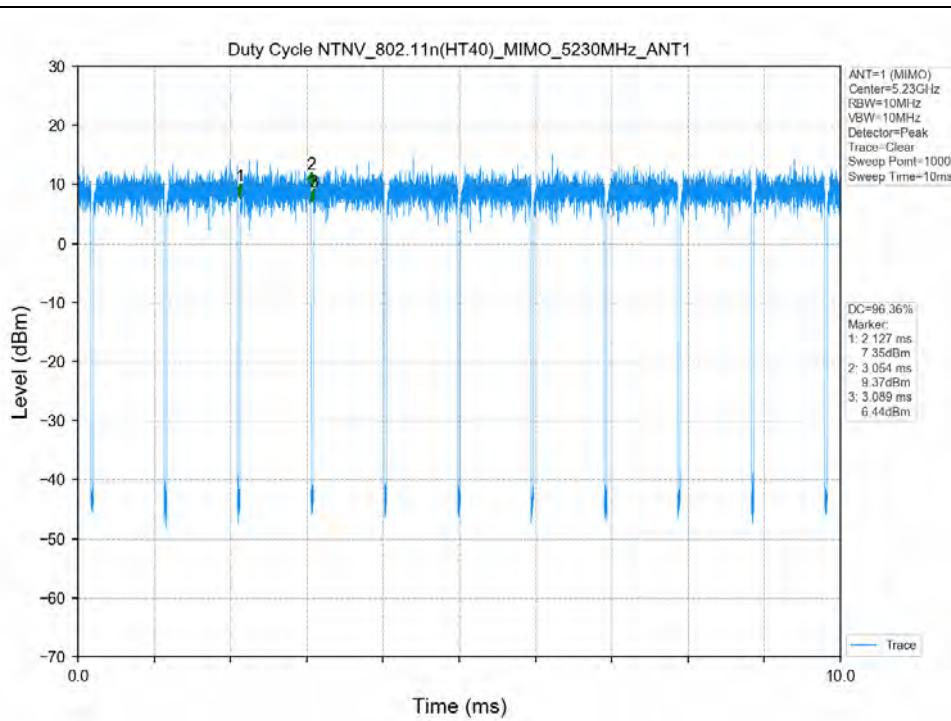
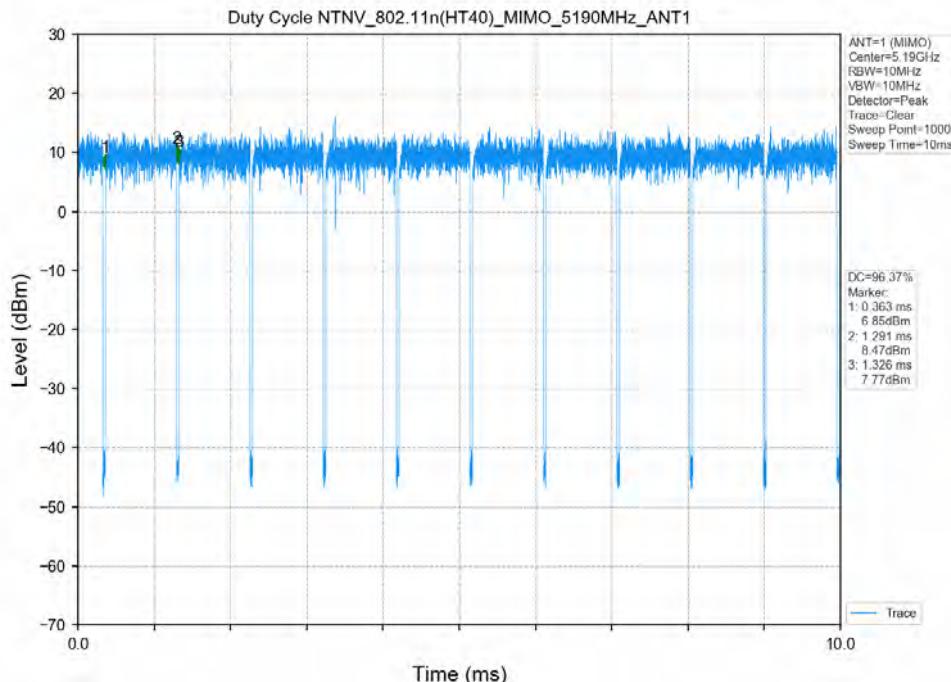
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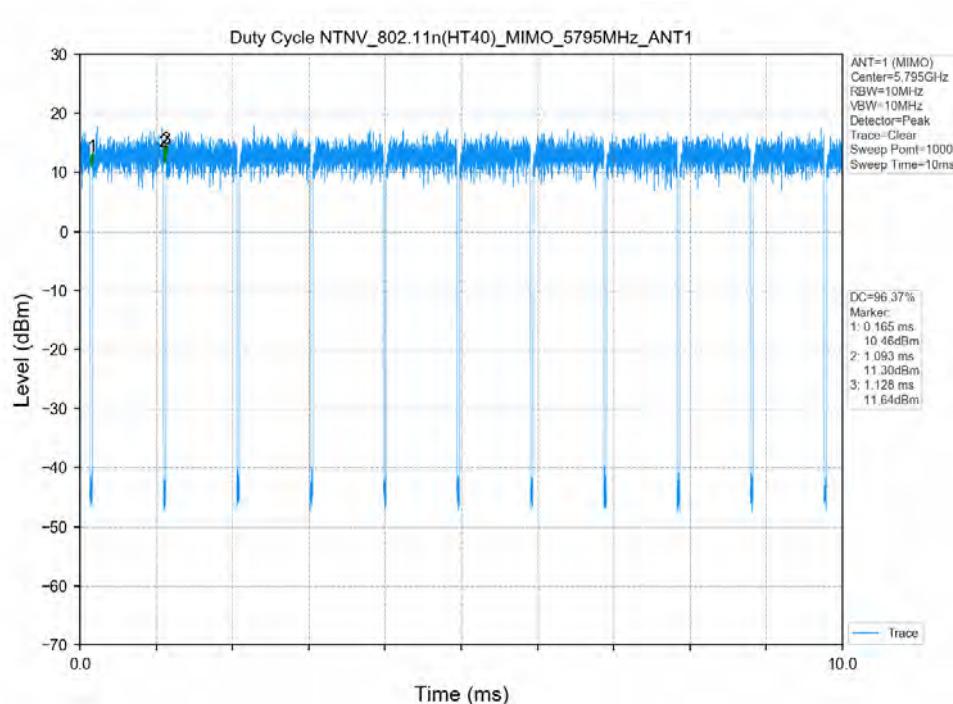
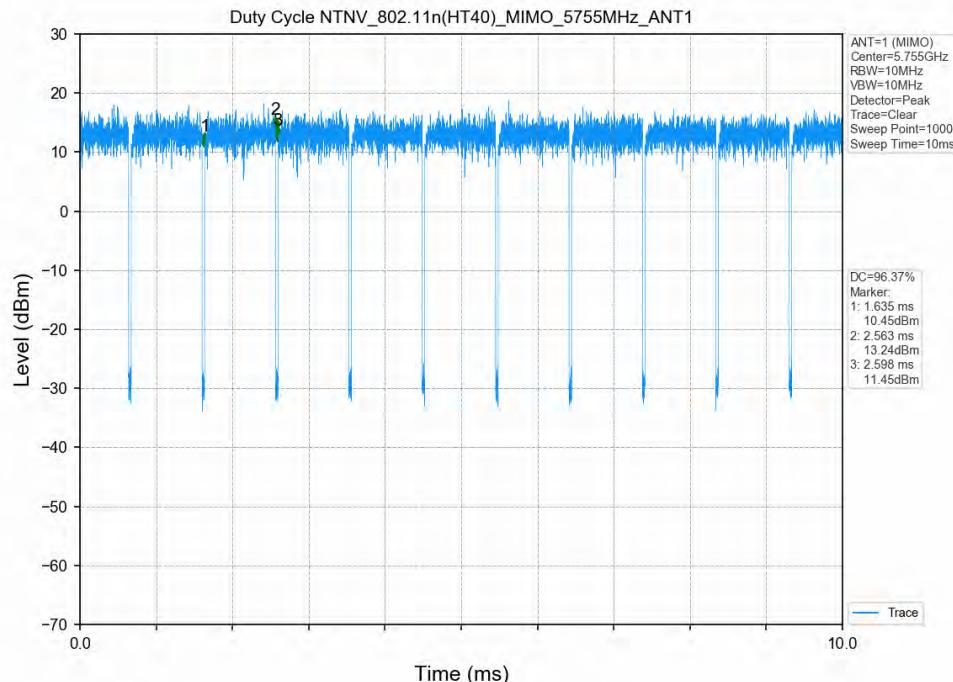
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**2. Bandwidth****2.1 Test Result**

Test Mode	Frequency (MHz)	TX Type	ANT No.	26 dB Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11a	5180	SISO	1	23.645	Only for Report Use	PASS
	5200	SISO	1	23.973	Only for Report Use	PASS
	5240	SISO	1	23.439	Only for Report Use	PASS
802.11n(HT20)	5180	MIMO	1	23.808	Only for Report Use	PASS
	5200	MIMO	1	24.373	Only for Report Use	PASS
	5240	MIMO	1	23.971	Only for Report Use	PASS
802.11n(HT40)	5190	MIMO	1	45.623	Only for Report Use	PASS
	5230	MIMO	1	47.344	Only for Report Use	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11a	5745	SISO	1	16.358	≥0.5	PASS
	5785	SISO	1	16.361	≥0.5	PASS
	5825	SISO	1	16.352	≥0.5	PASS
802.11n(HT20)	5745	MIMO	1	17.327	≥0.5	PASS
	5785	MIMO	1	17.095	≥0.5	PASS
	5825	MIMO	1	17.084	≥0.5	PASS
802.11n(HT40)	5755	MIMO	1	35.644	≥0.5	PASS
	5795	MIMO	1	35.366	≥0.5	PASS

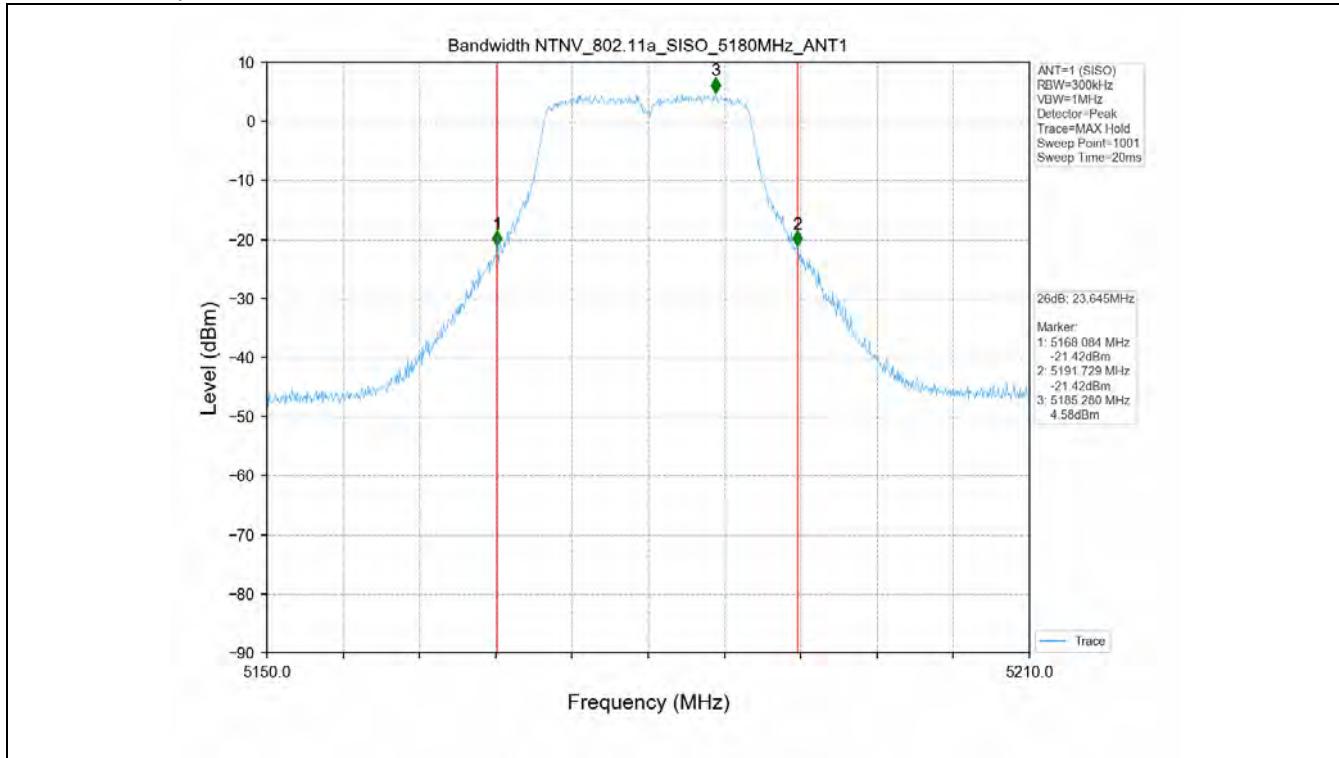
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Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11a	5180	SISO	1	17.085	Only for Report Use
	5200	SISO	1	17.054	Only for Report Use
	5240	SISO	1	17.051	Only for Report Use
	5745	SISO	1	17.074	Only for Report Use
	5785	SISO	1	17.061	Only for Report Use
	5825	SISO	1	17.093	Only for Report Use
802.11n(HT20)	5180	MIMO	1	18.097	Only for Report Use
	5200	MIMO	1	18.089	Only for Report Use
	5240	MIMO	1	18.069	Only for Report Use
	5745	MIMO	1	18.085	Only for Report Use
	5785	MIMO	1	18.082	Only for Report Use
	5825	MIMO	1	18.090	Only for Report Use
802.11n(HT40)	5190	MIMO	1	37.445	Only for Report Use
	5230	MIMO	1	37.544	Only for Report Use
	5755	MIMO	1	37.522	Only for Report Use
	5795	MIMO	1	37.505	Only for Report Use

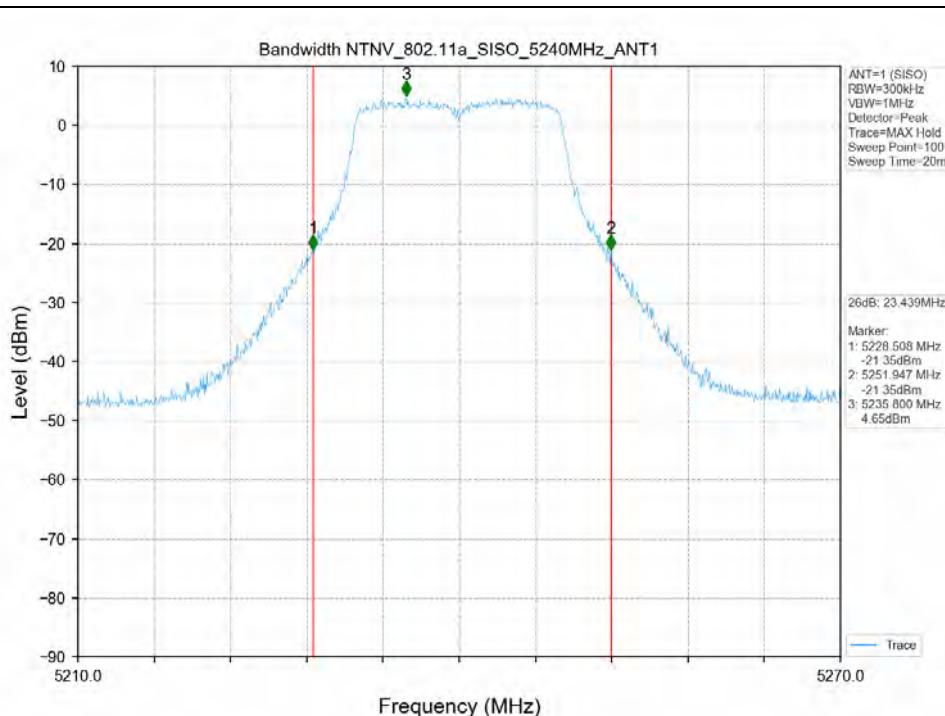
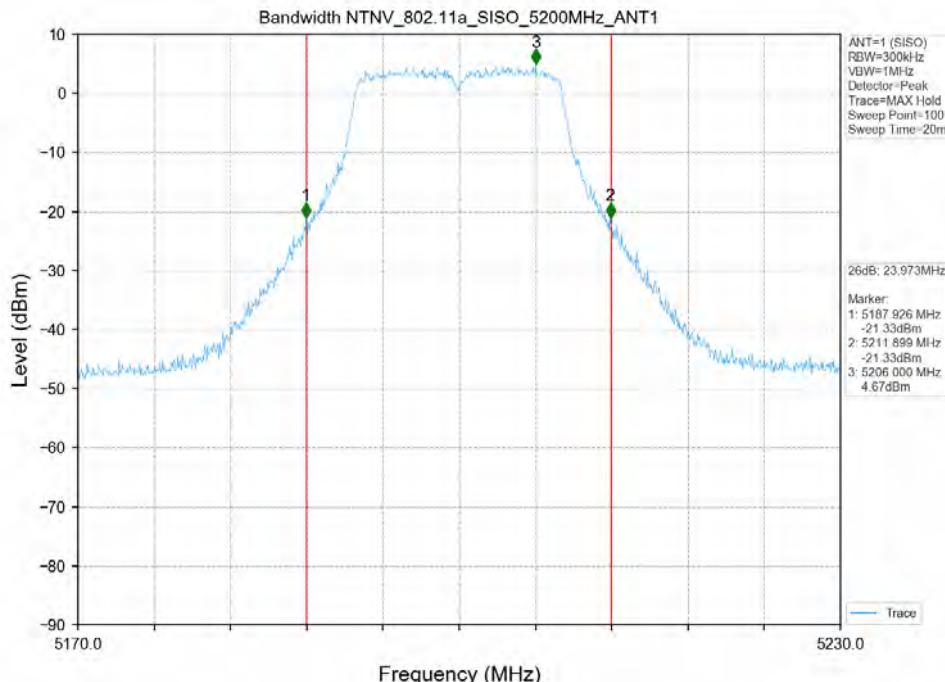
## 2.2 Test Graph - Emission Bandwidth



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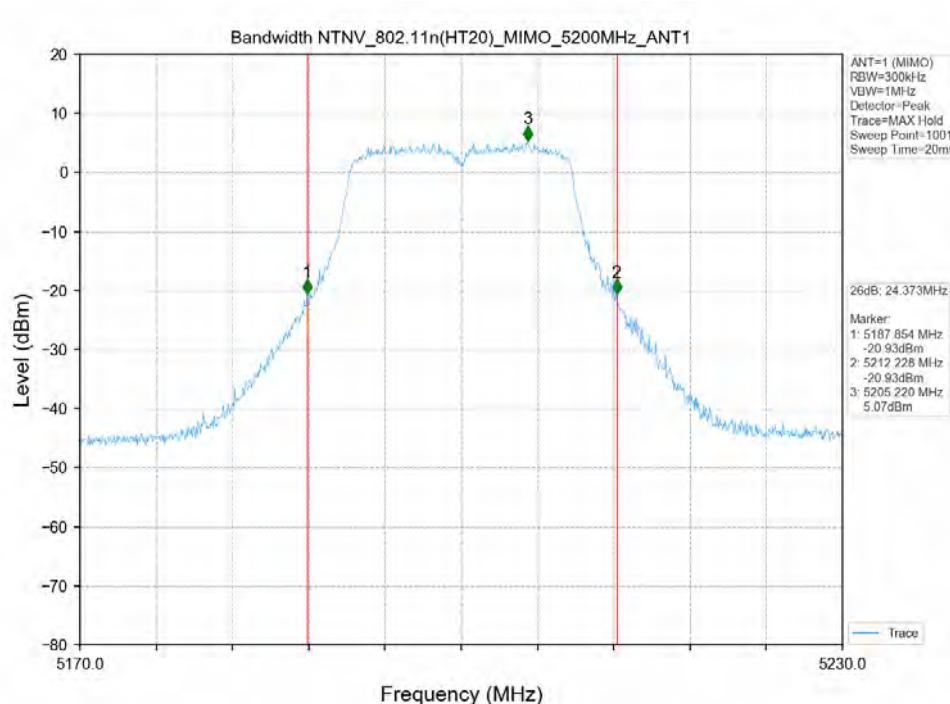
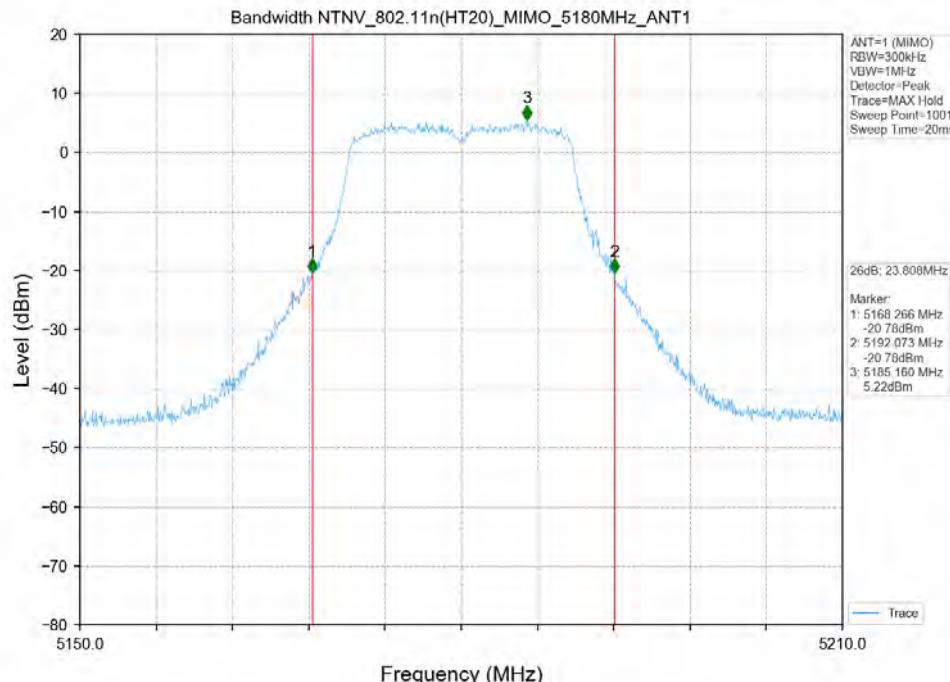
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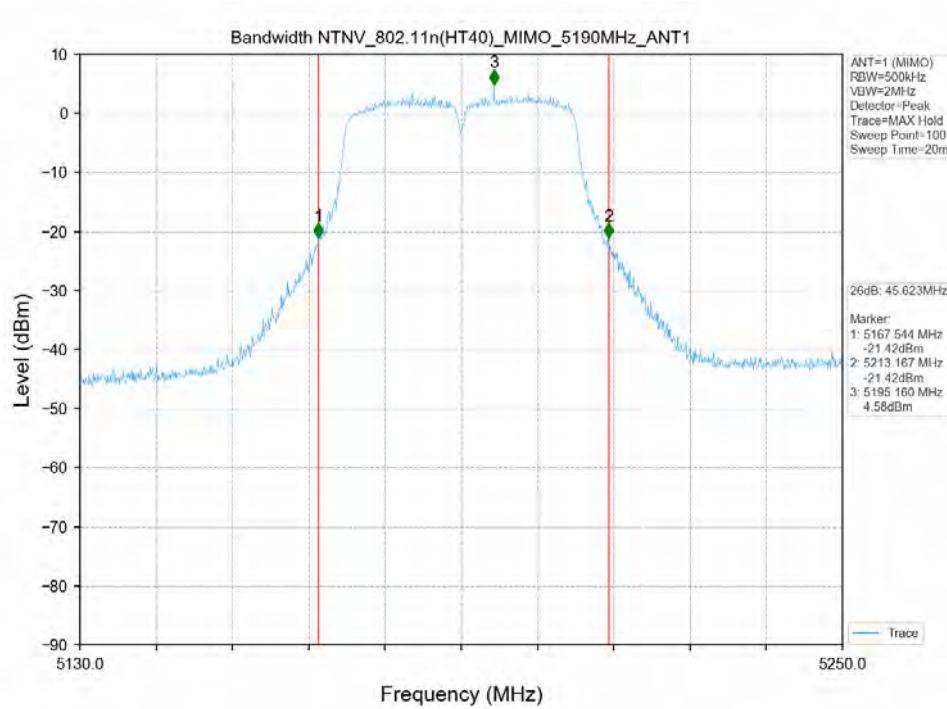
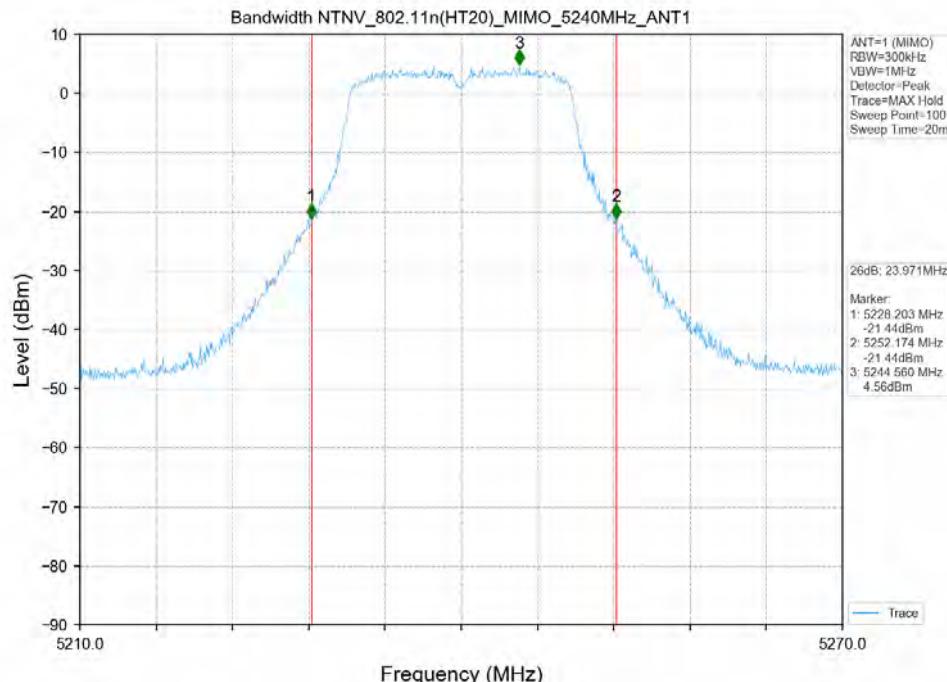
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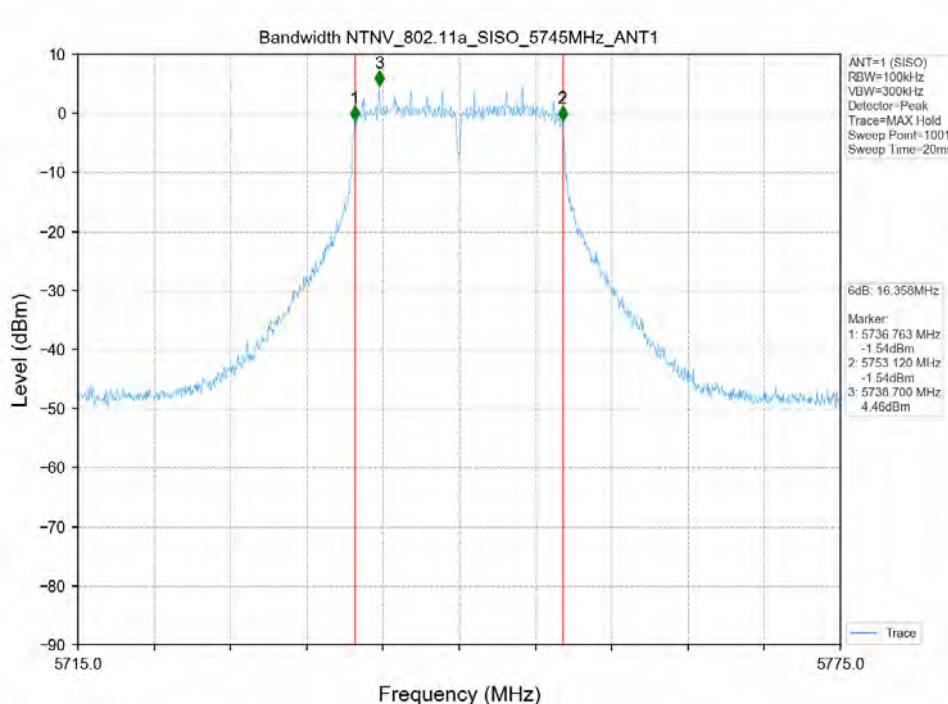
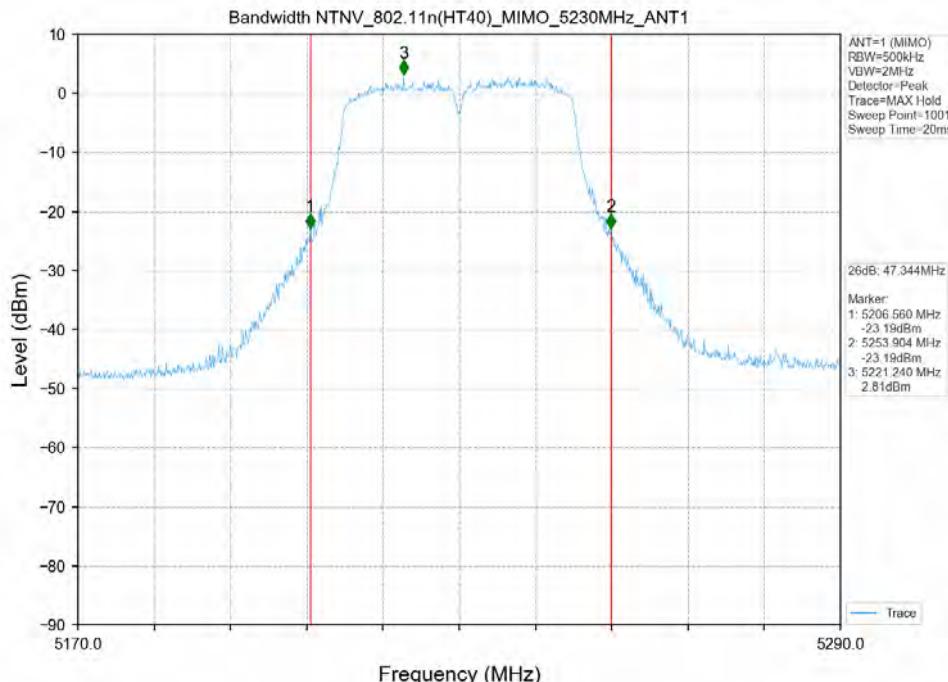
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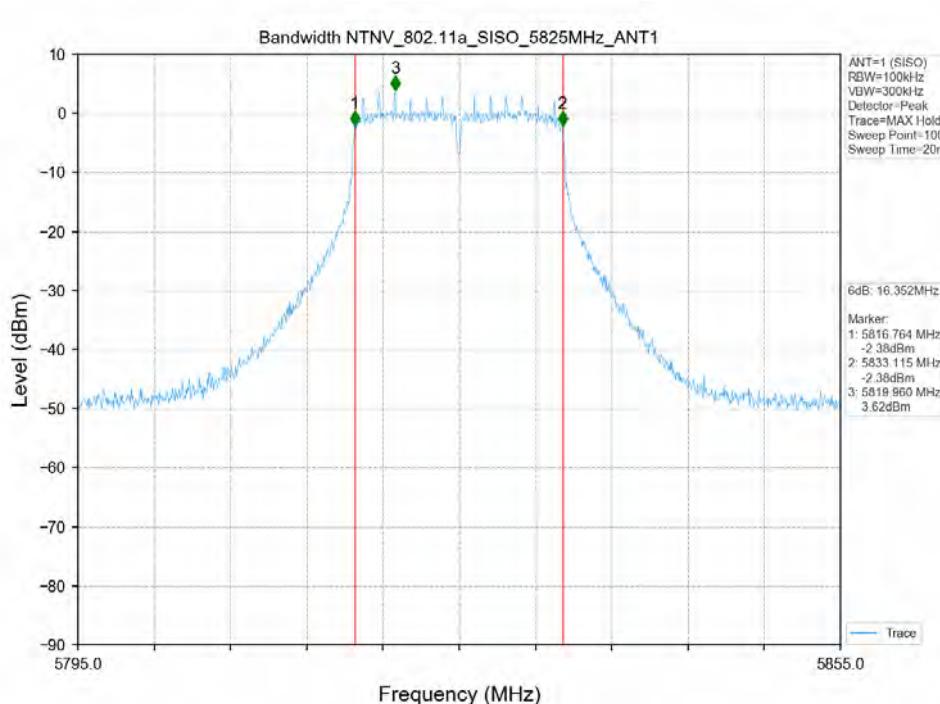
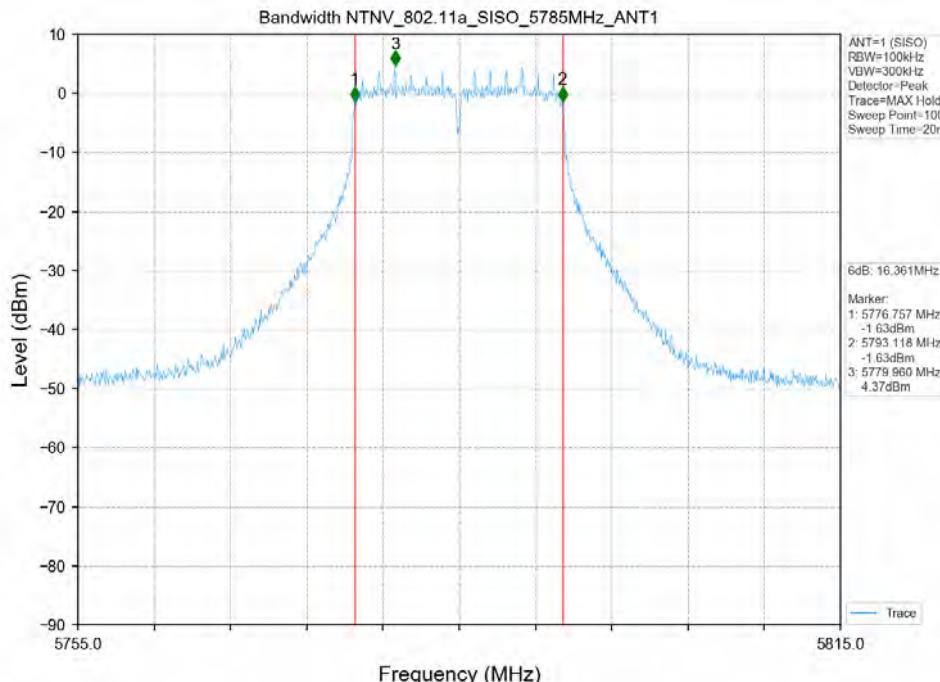
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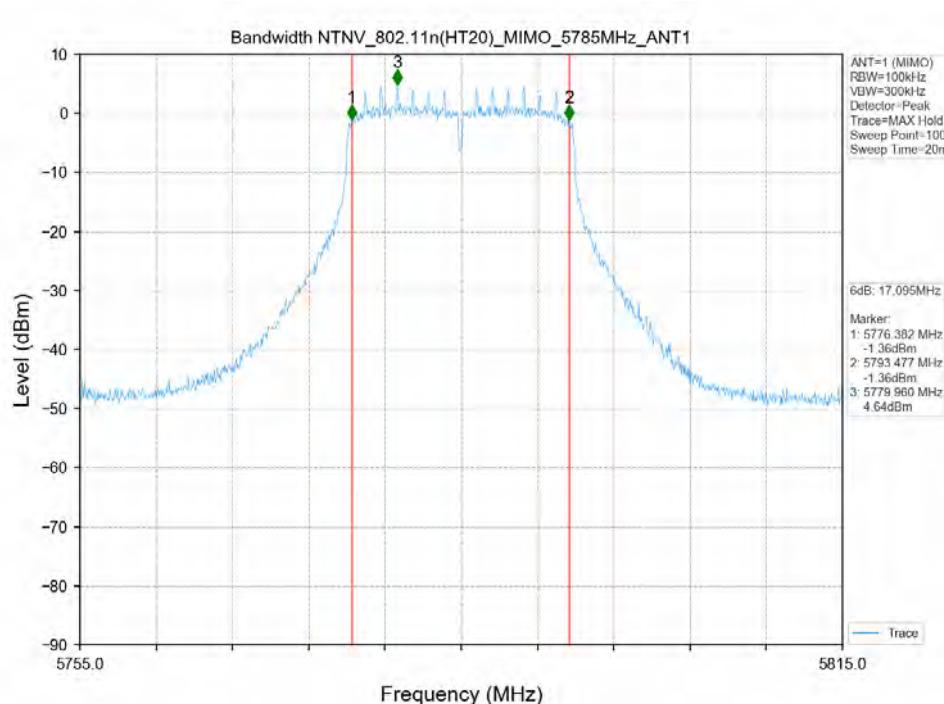
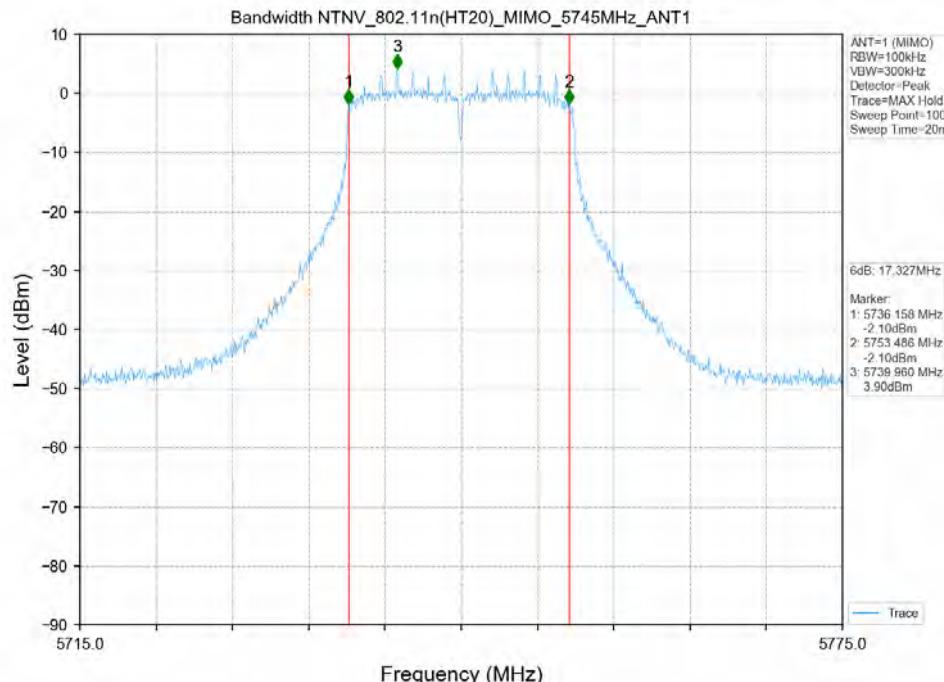
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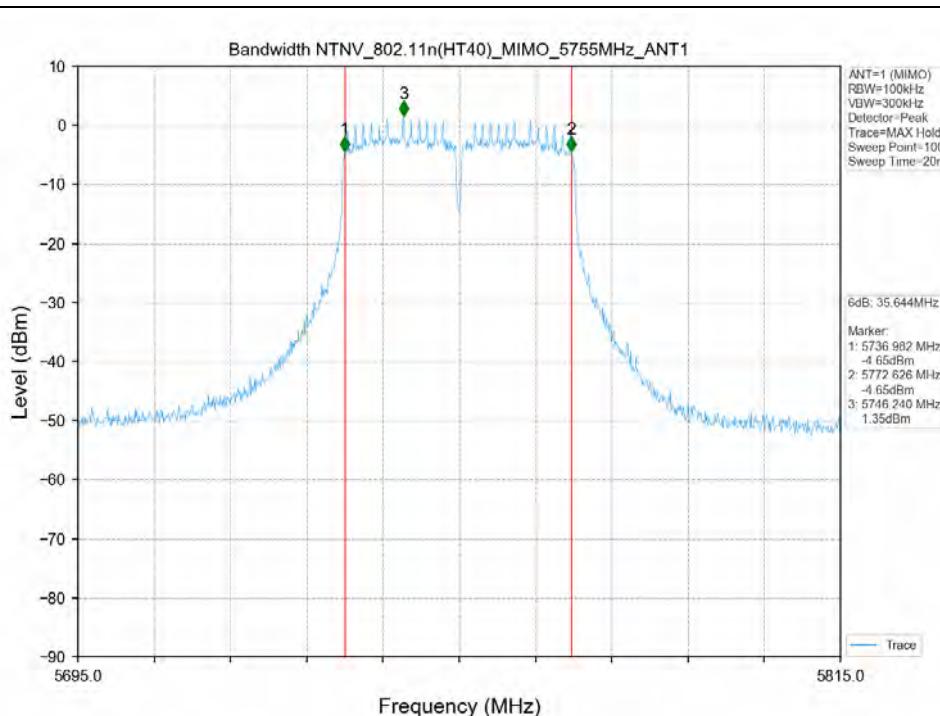
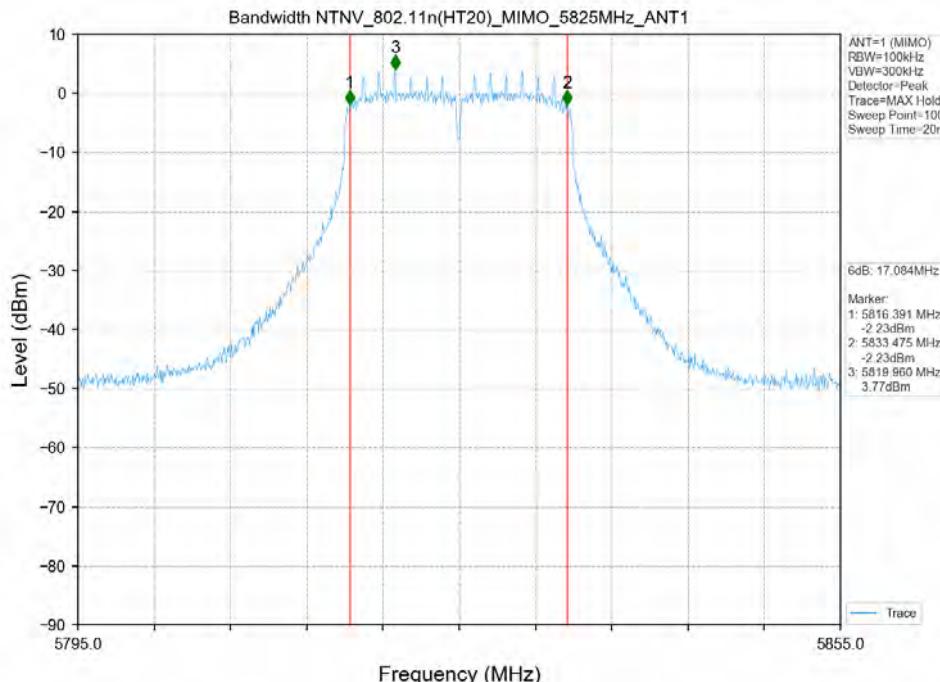
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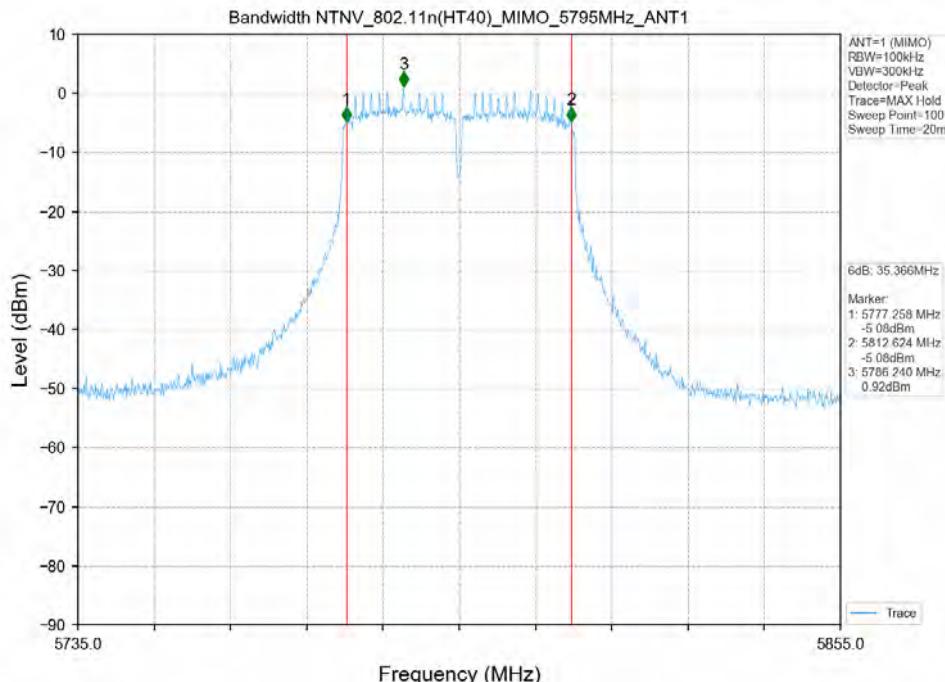
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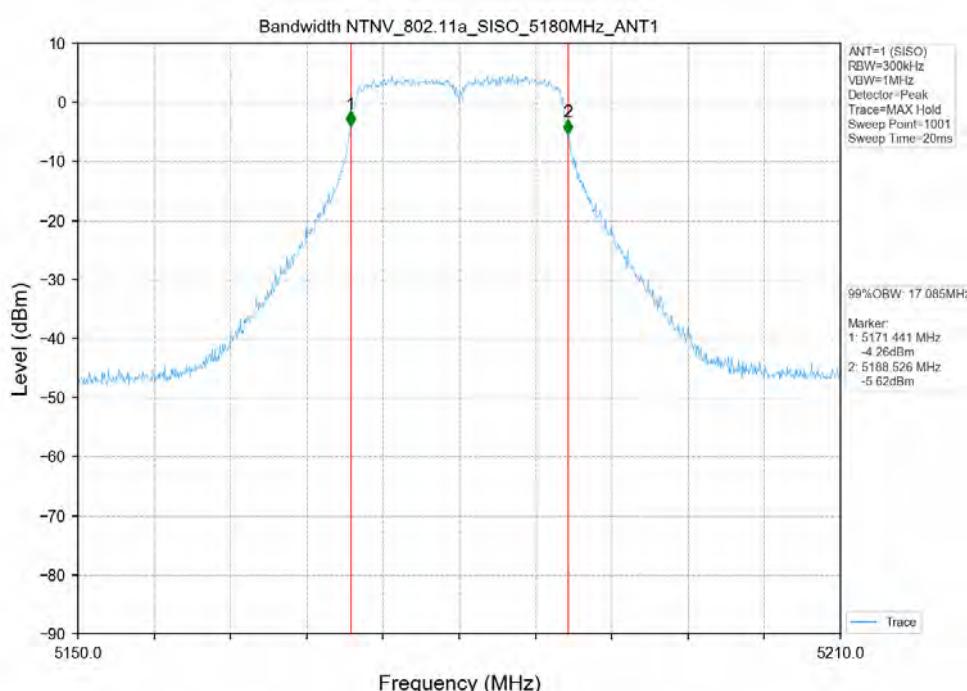


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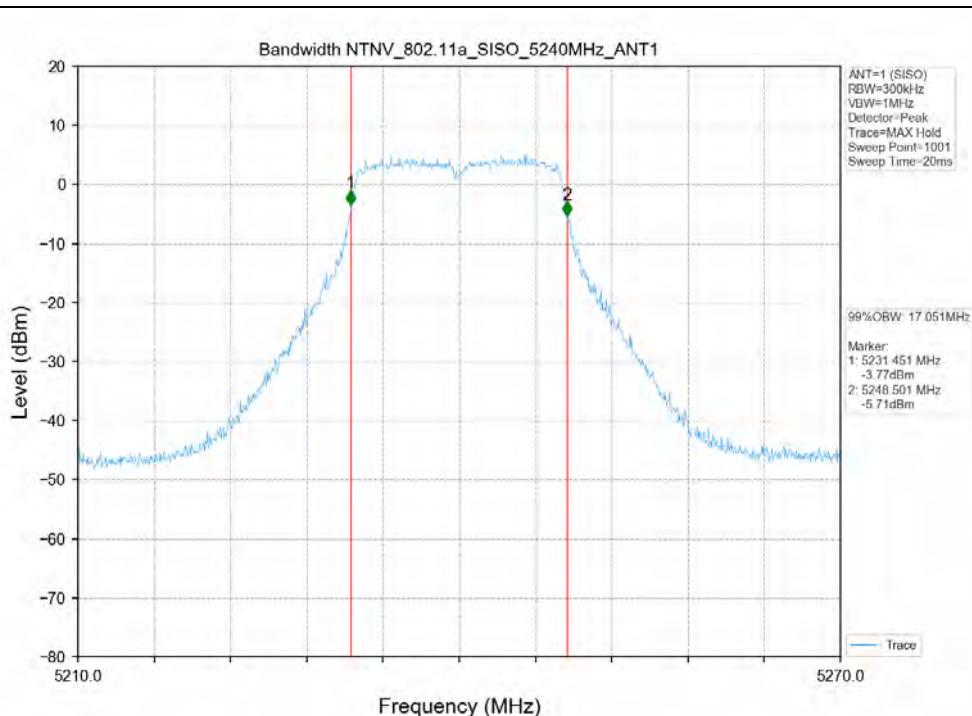
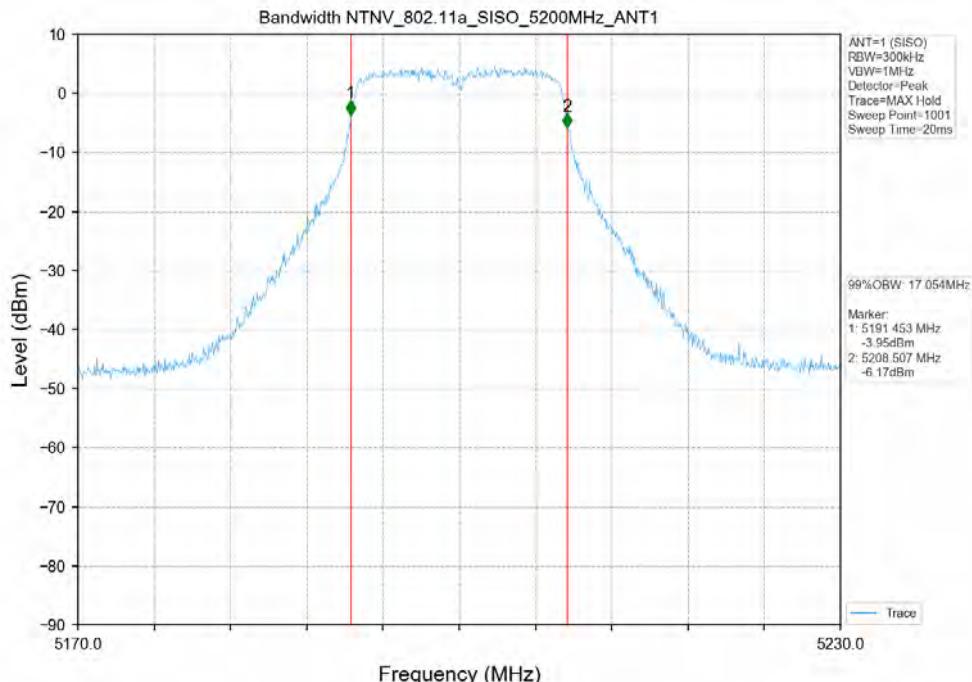


### 2.3 Test Graph - 99% Occupied Bandwidth



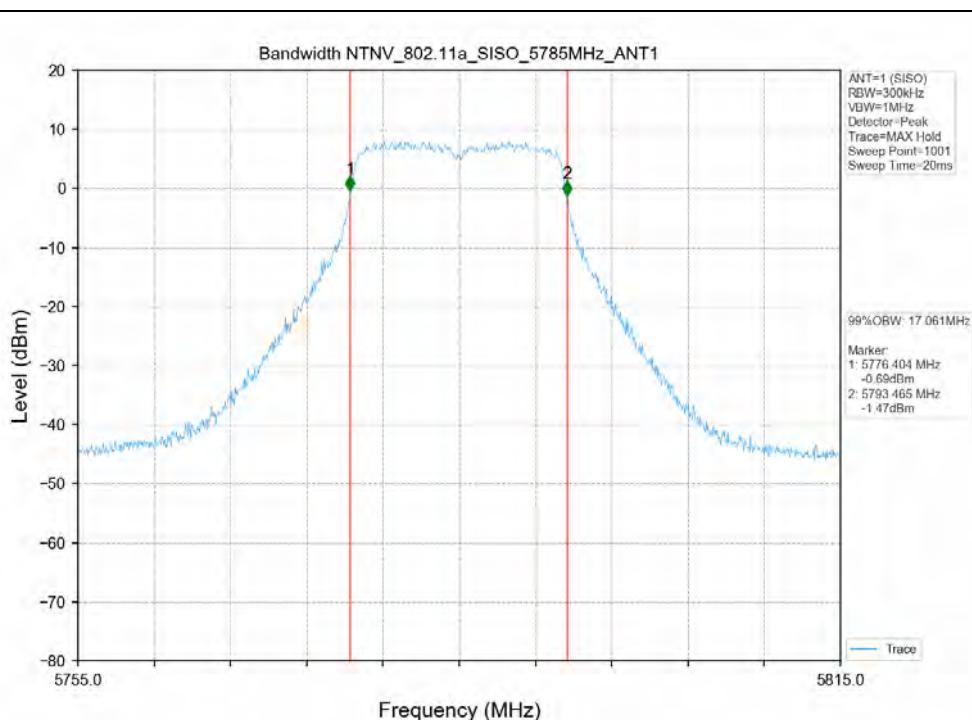
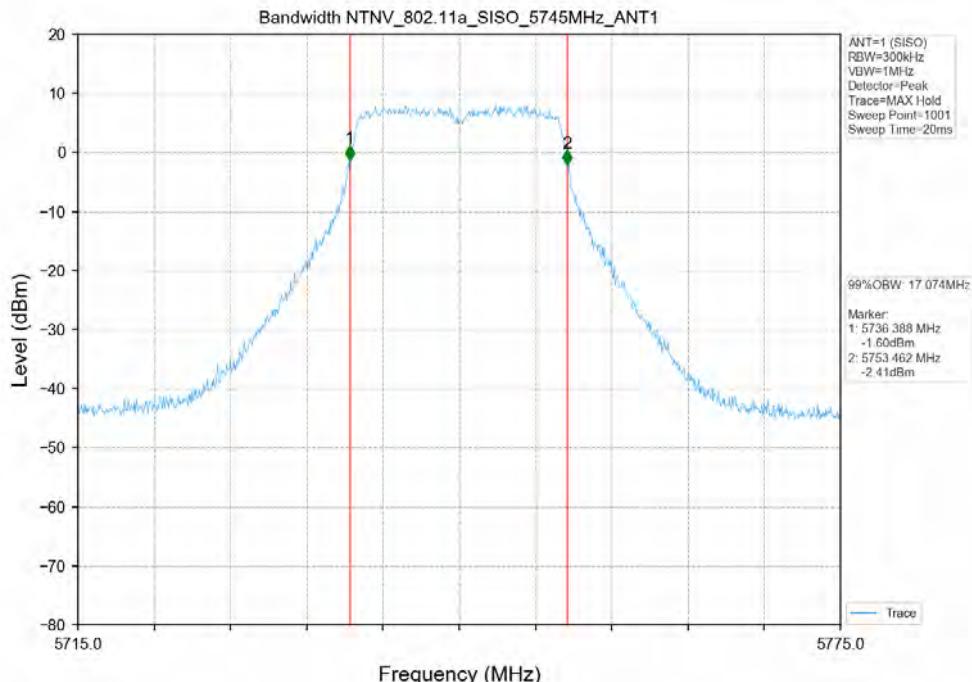
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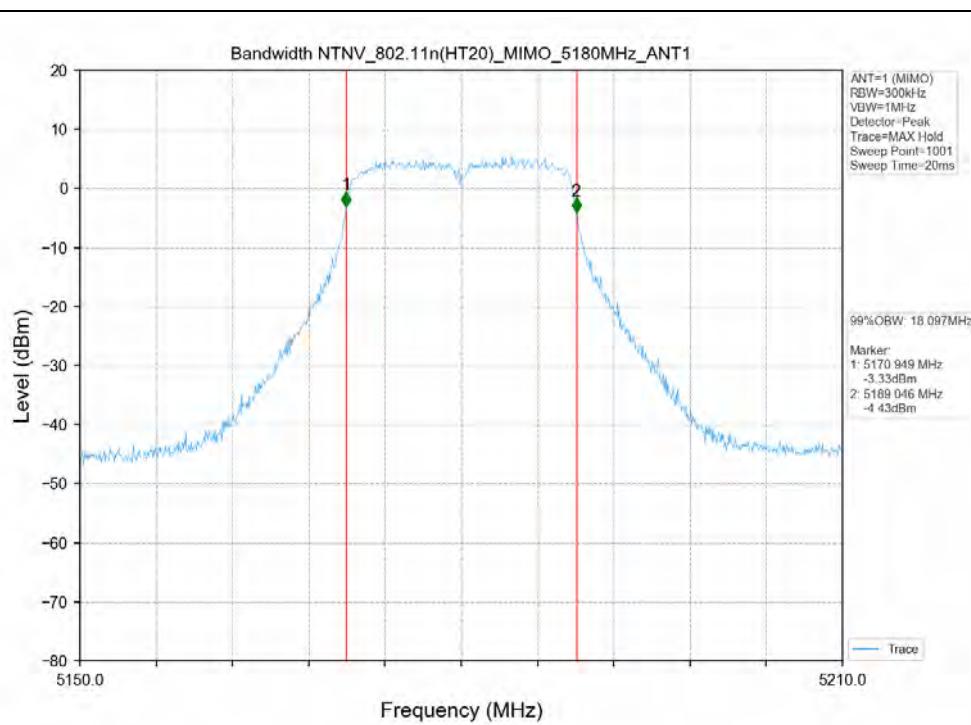
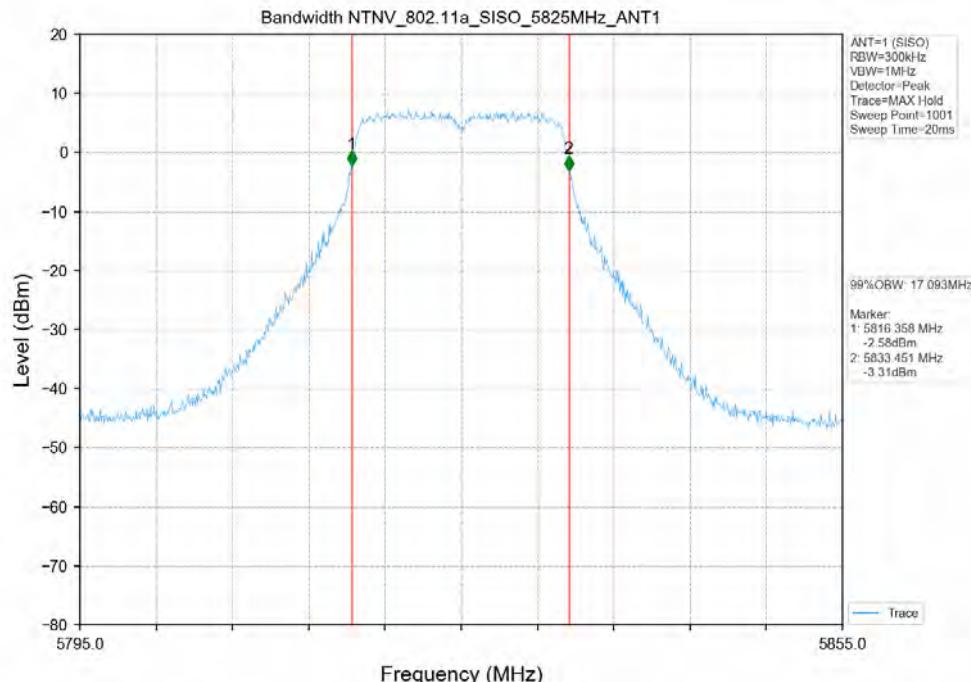
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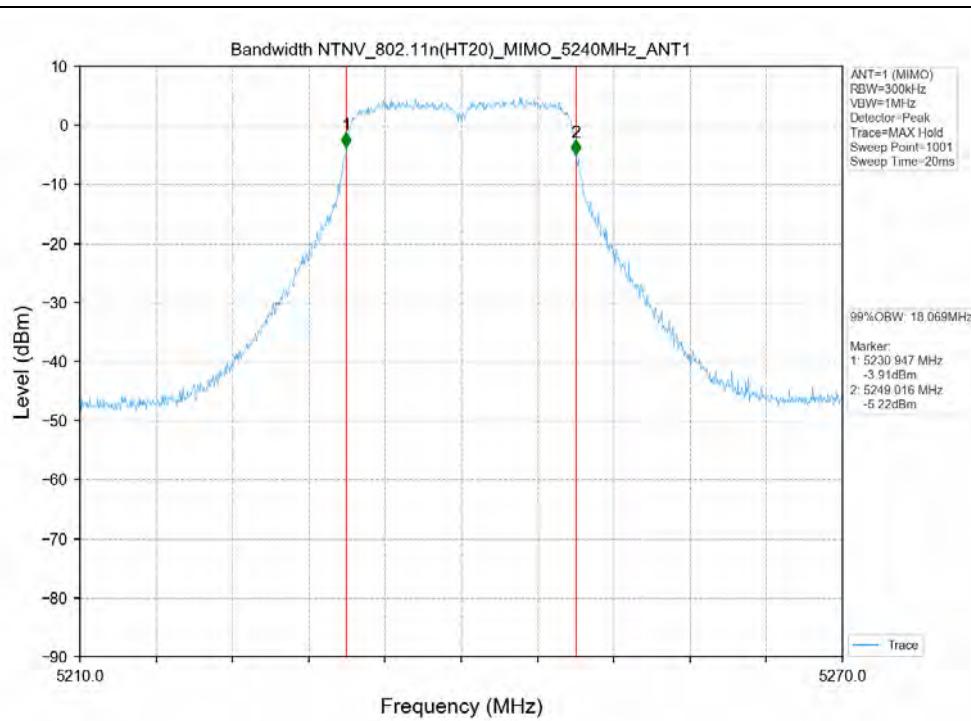
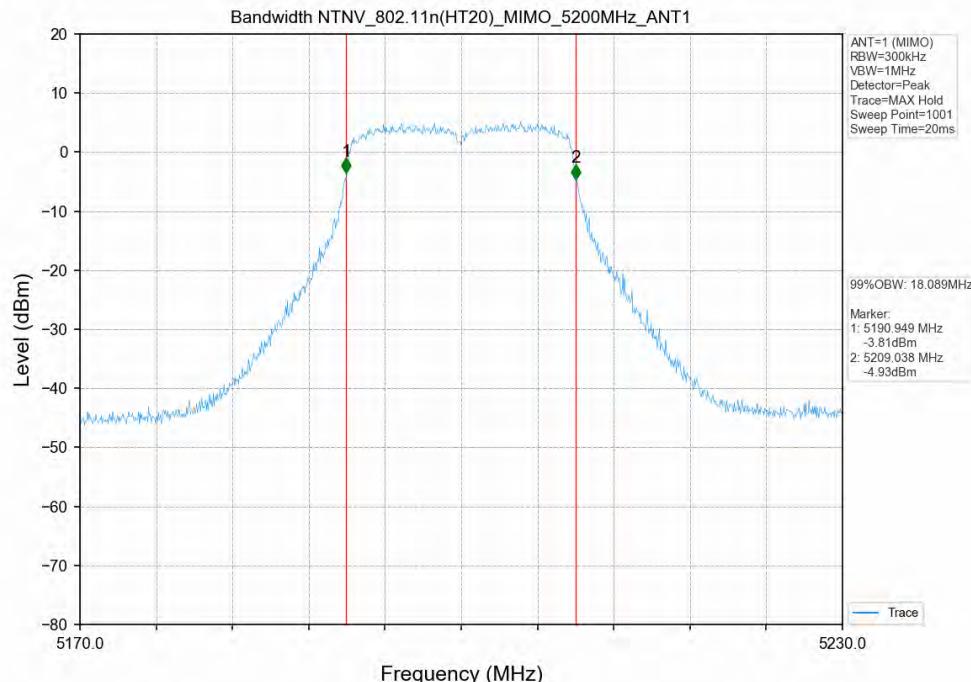
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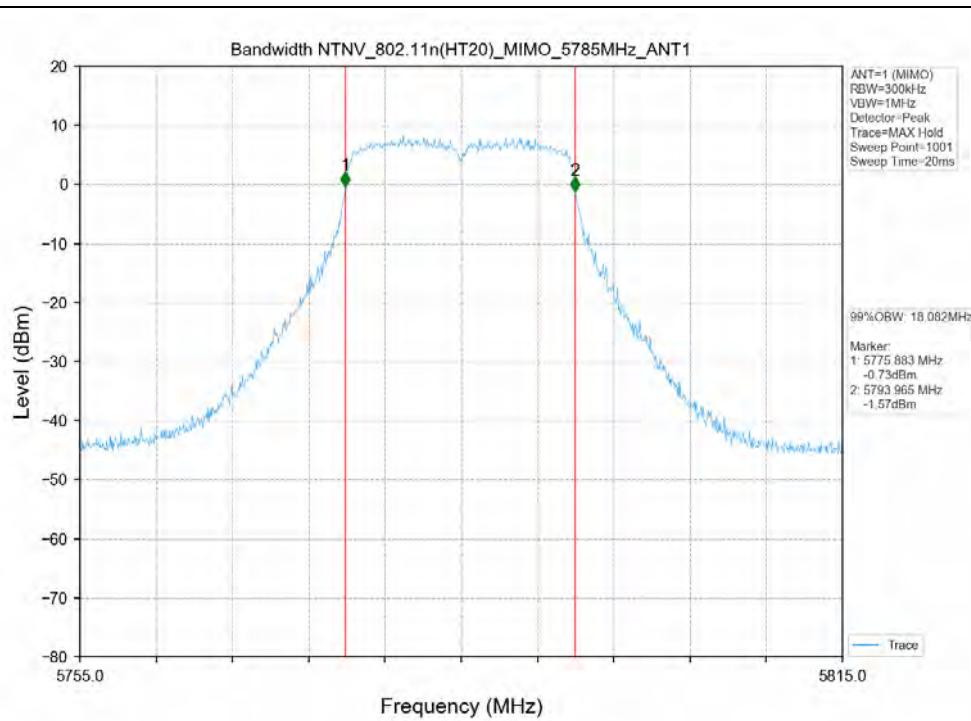
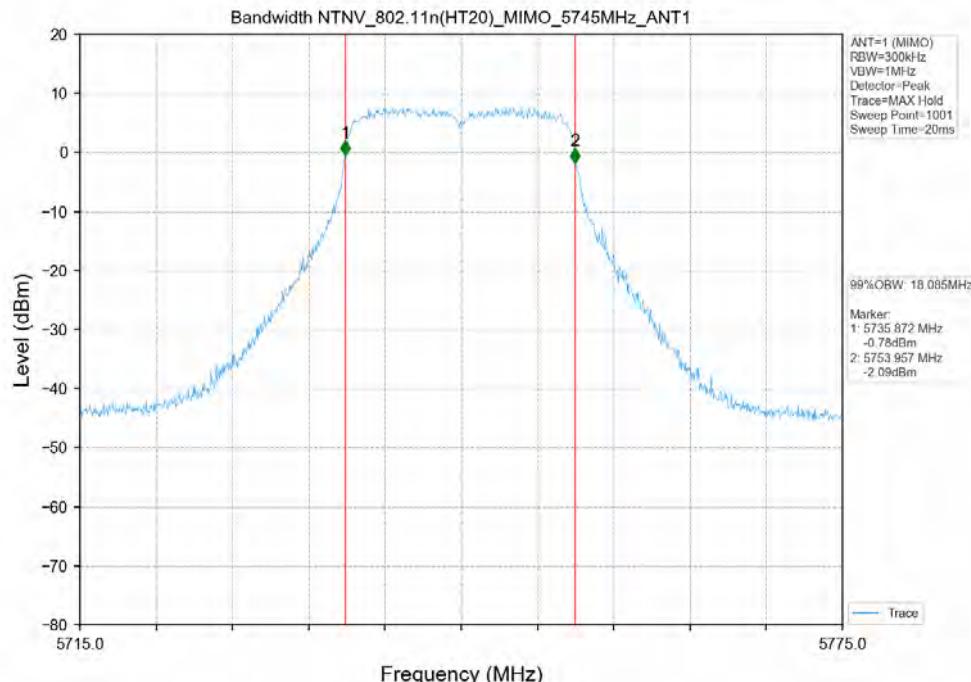
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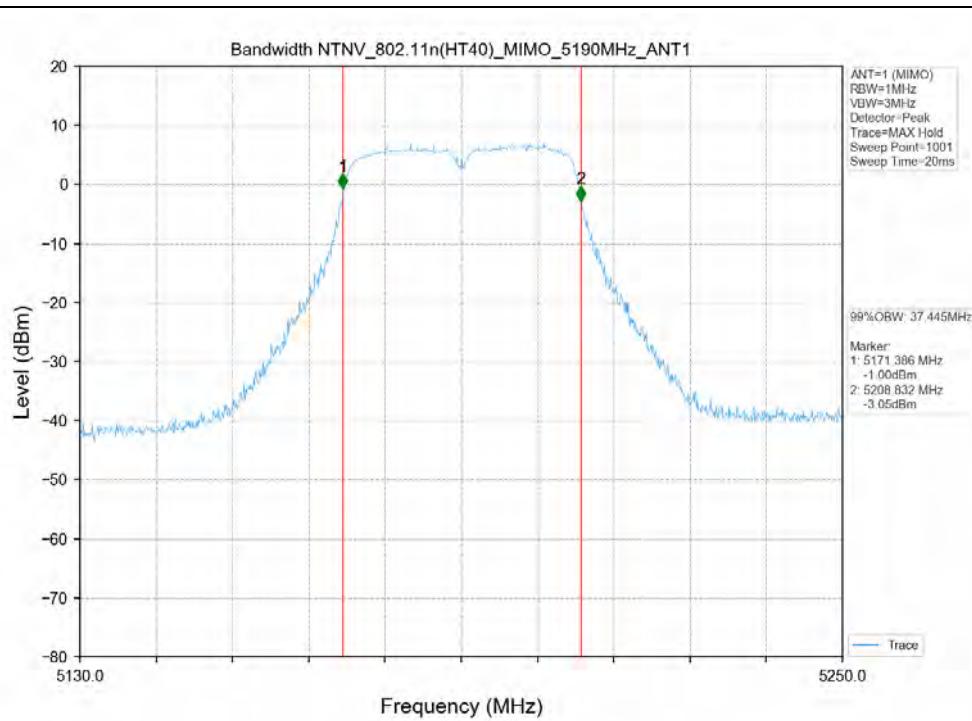
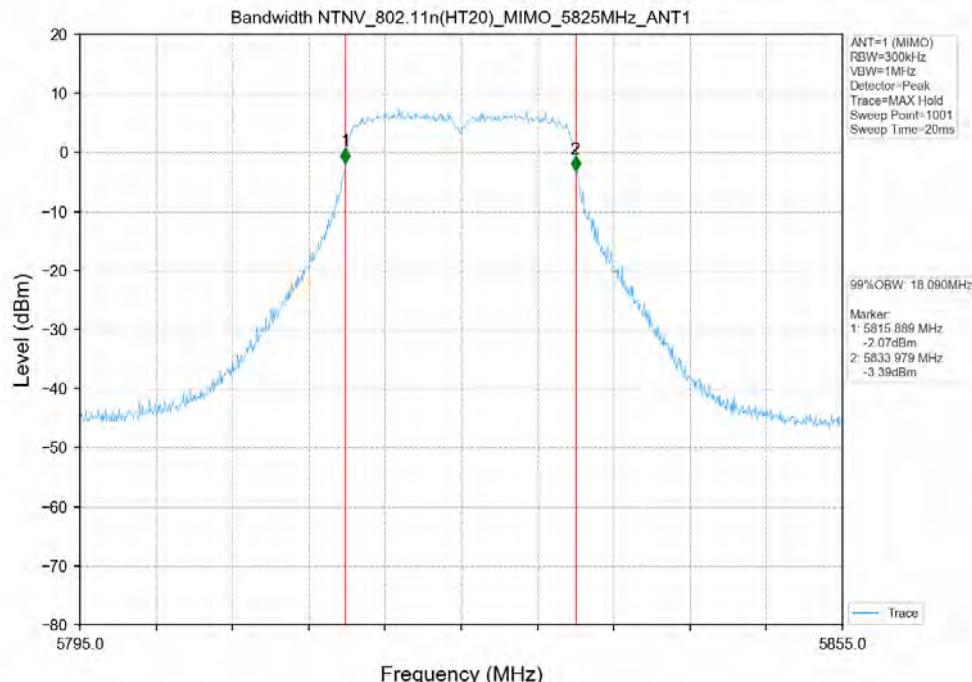
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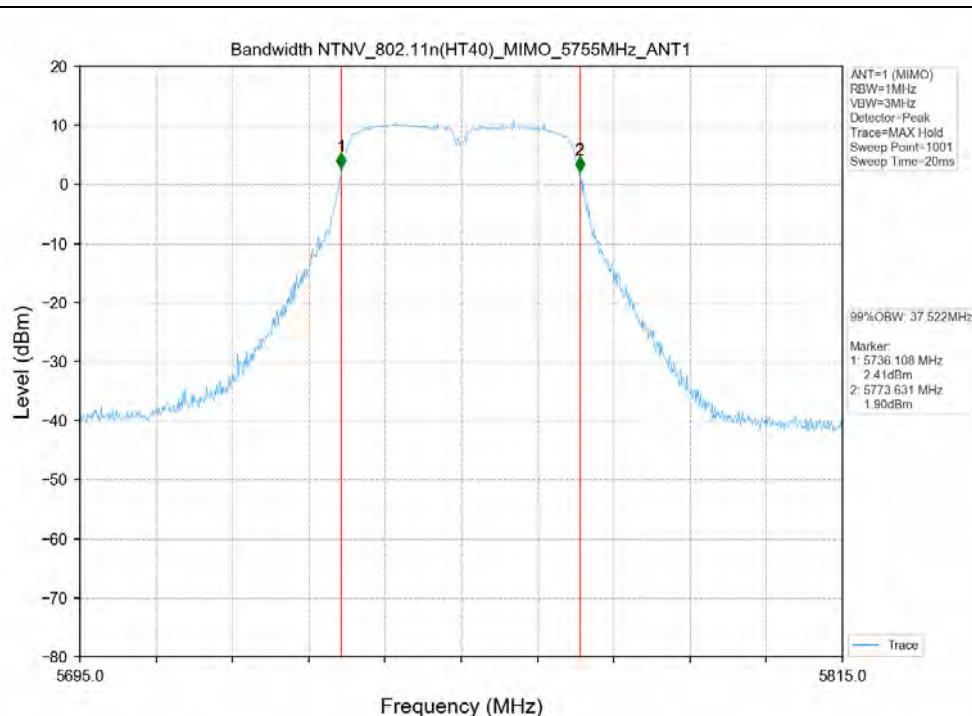
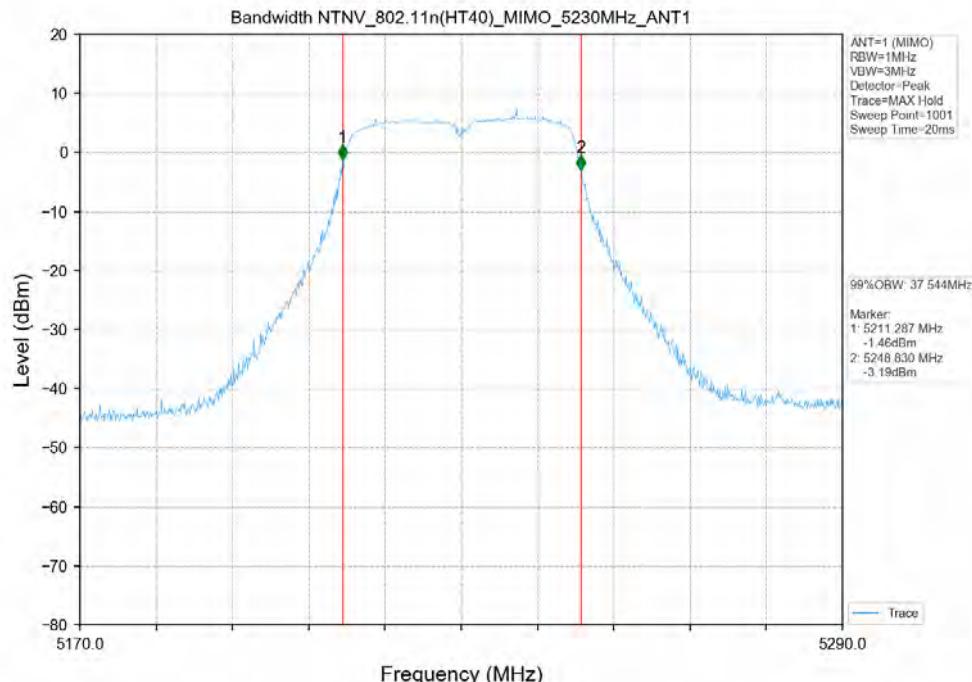
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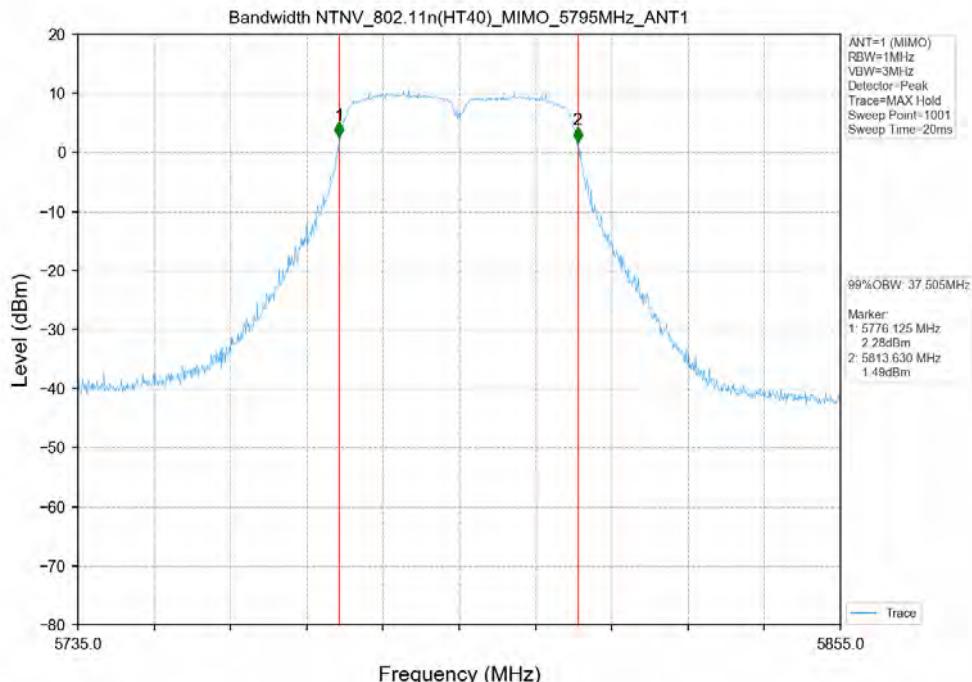
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### 3. Maximum Conducted Output Power

#### 3.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)			Limit (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11a	5180	SISO	13.28	12.81	/	≤23.98	PASS
	5200	SISO	12.17	12.53	/	≤23.98	PASS
	5240	SISO	12.40	12.73	/	≤23.98	PASS
	5745	SISO	15.59	15.25	/	≤30	PASS
	5785	SISO	15.92	15.61	/	≤30	PASS
	5825	SISO	14.85	14.53	/	≤30	PASS
802.11n(HT20)	5180	MIMO	12.99	12.38	15.71	≤23.98	PASS
	5200	MIMO	12.83	13.16	16.01	≤23.98	PASS
	5240	MIMO	12.34	13.40	15.91	≤23.98	PASS
	5745	MIMO	15.74	15.39	18.58	≤30	PASS
	5785	MIMO	15.79	13.50	17.80	≤30	PASS
	5825	MIMO	14.98	14.35	17.69	≤30	PASS
802.11n(HT40)	5190	MIMO	11.75	10.97	14.39	≤23.98	PASS
	5230	MIMO	11.10	11.28	14.20	≤23.98	PASS
	5755	MIMO	15.51	15.27	18.40	≤30	PASS
	5795	MIMO	15.08	14.84	17.97	≤30	PASS

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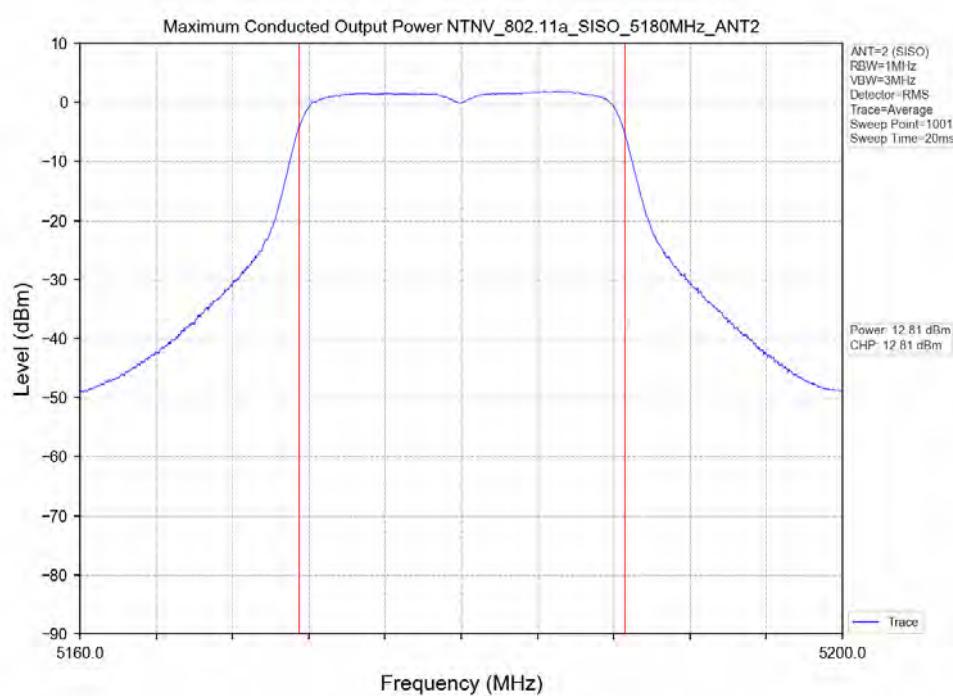
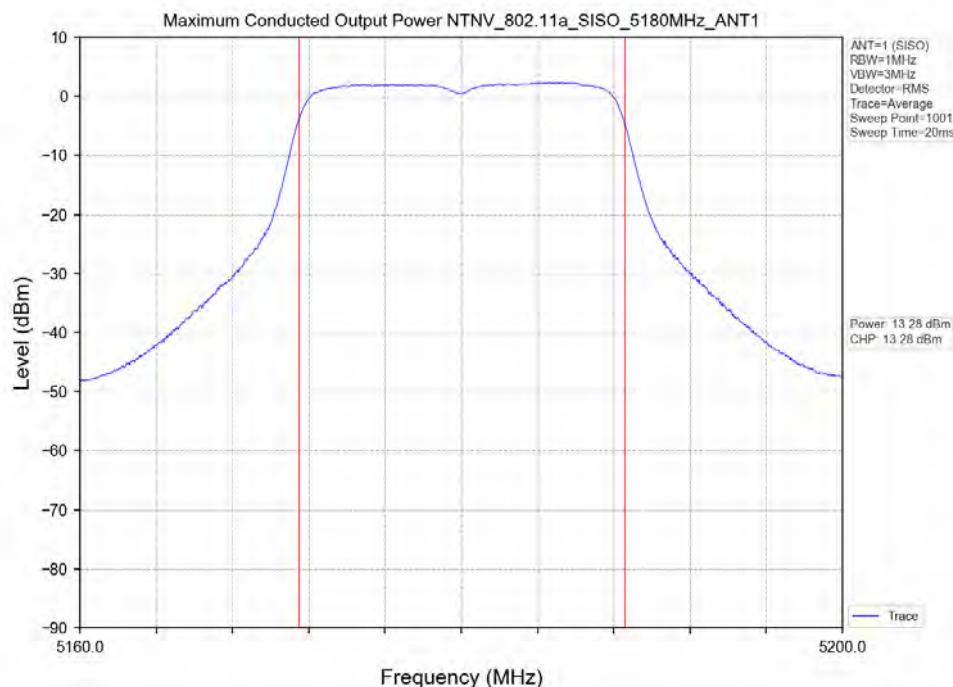
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## 3.2 Test Graph



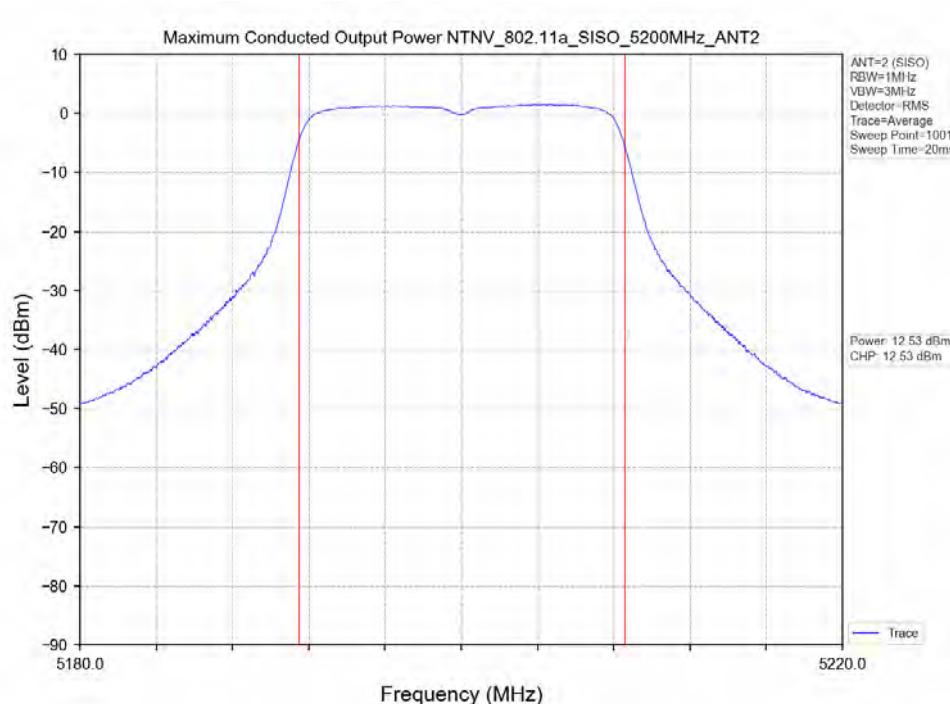
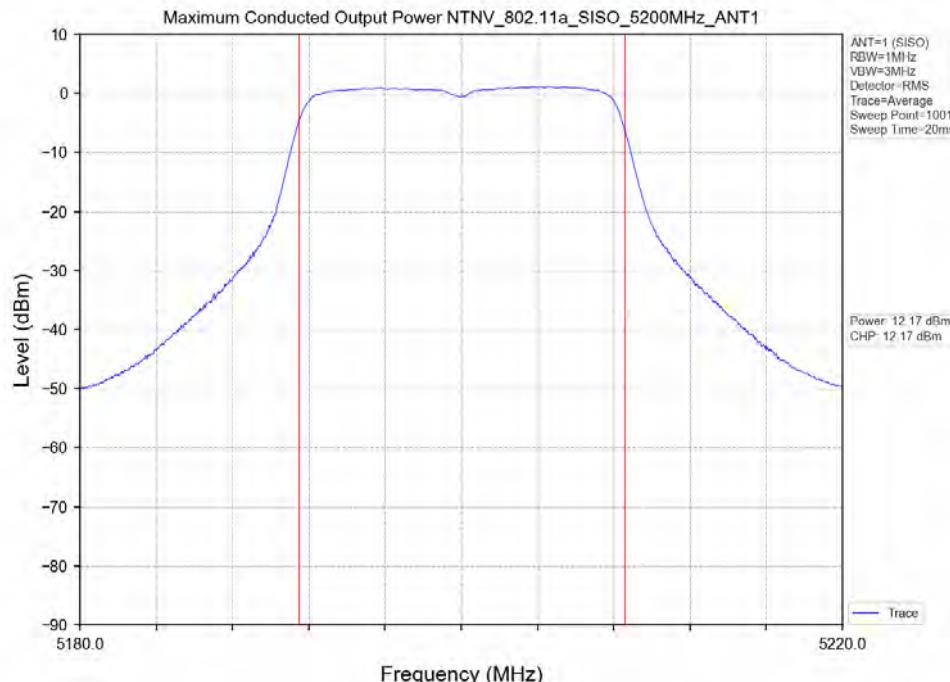
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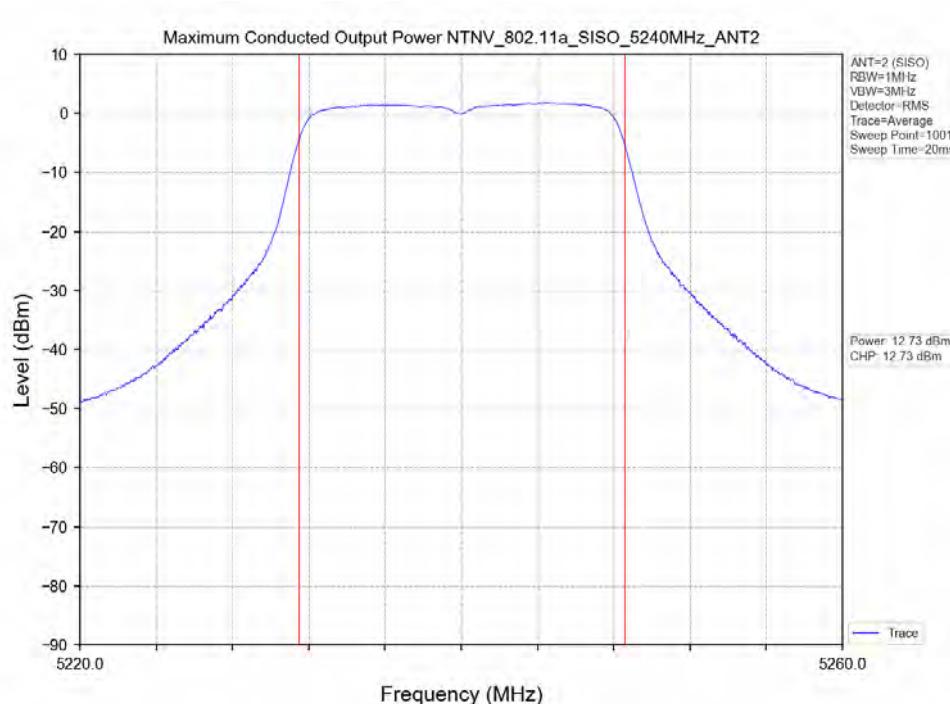
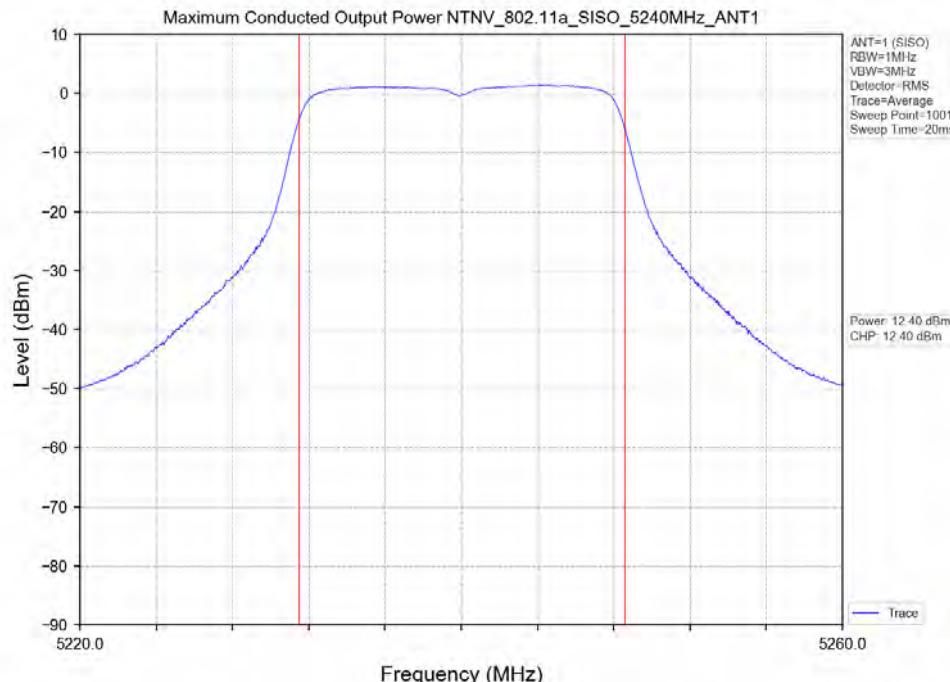
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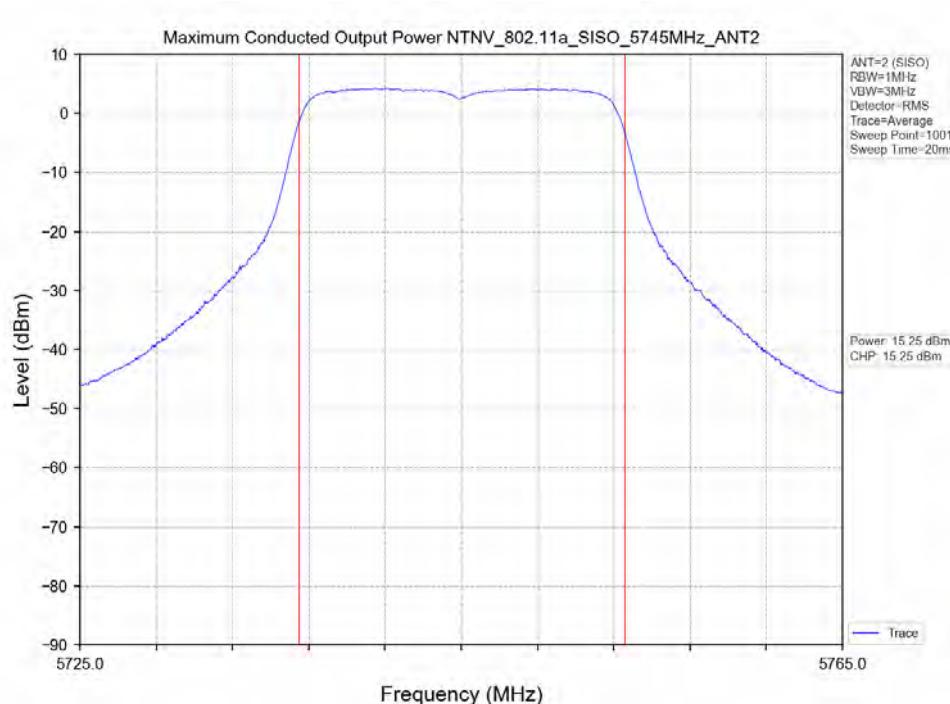
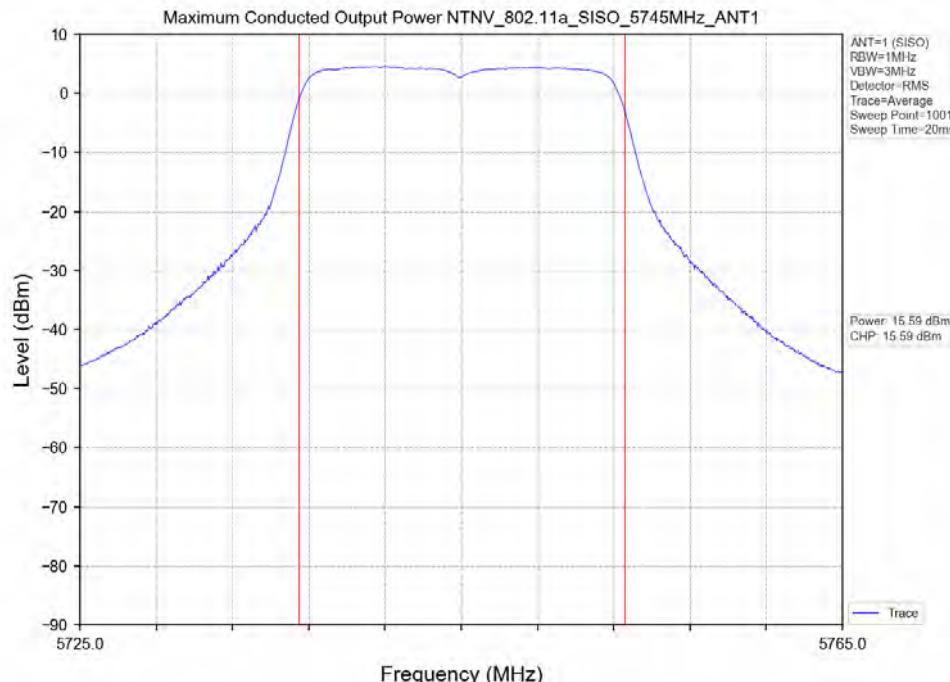
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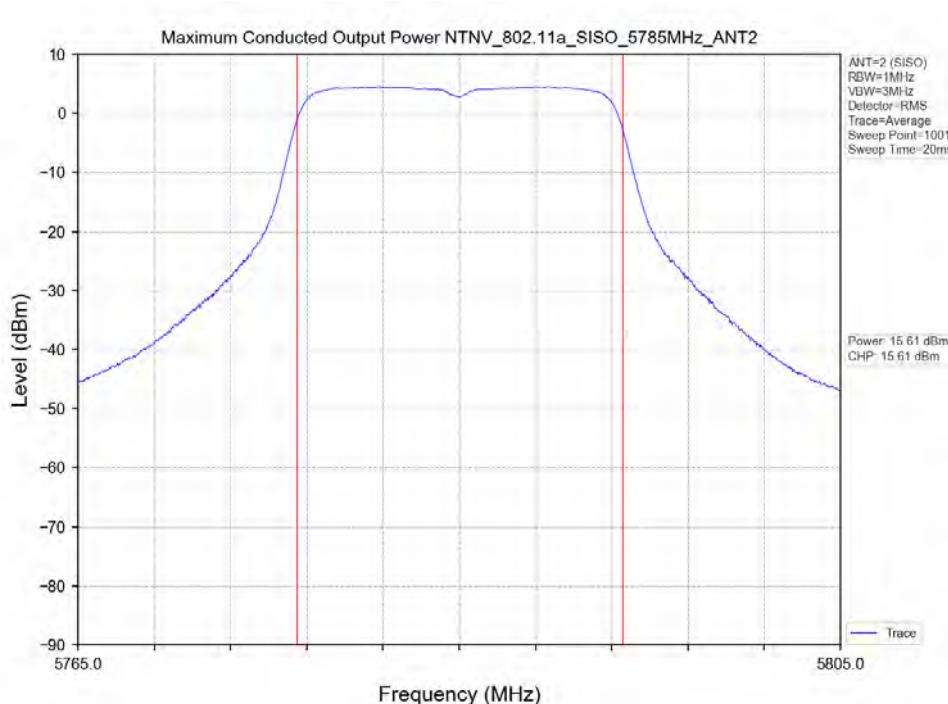
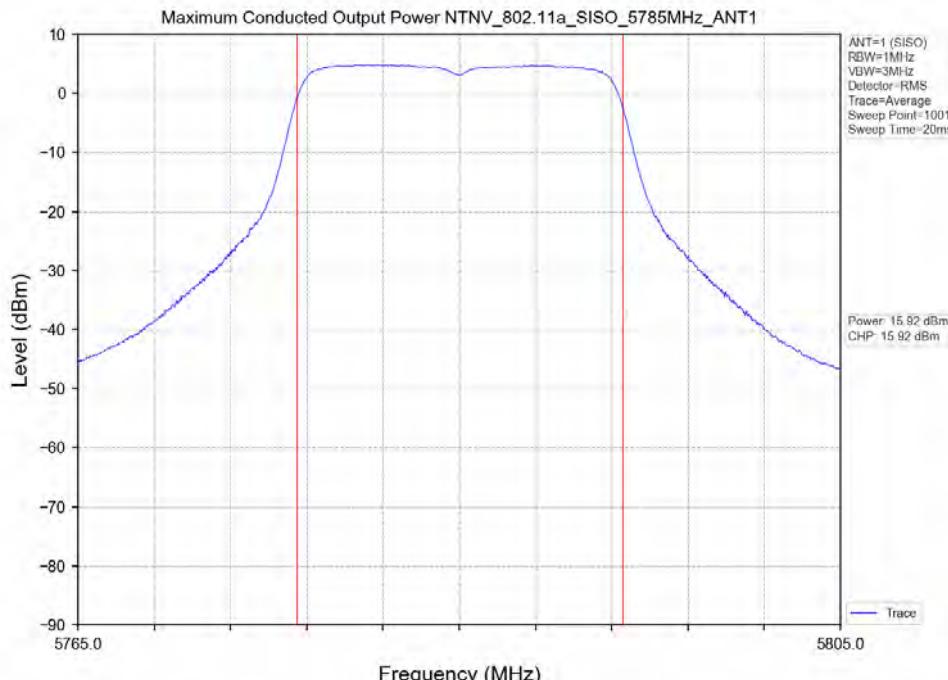
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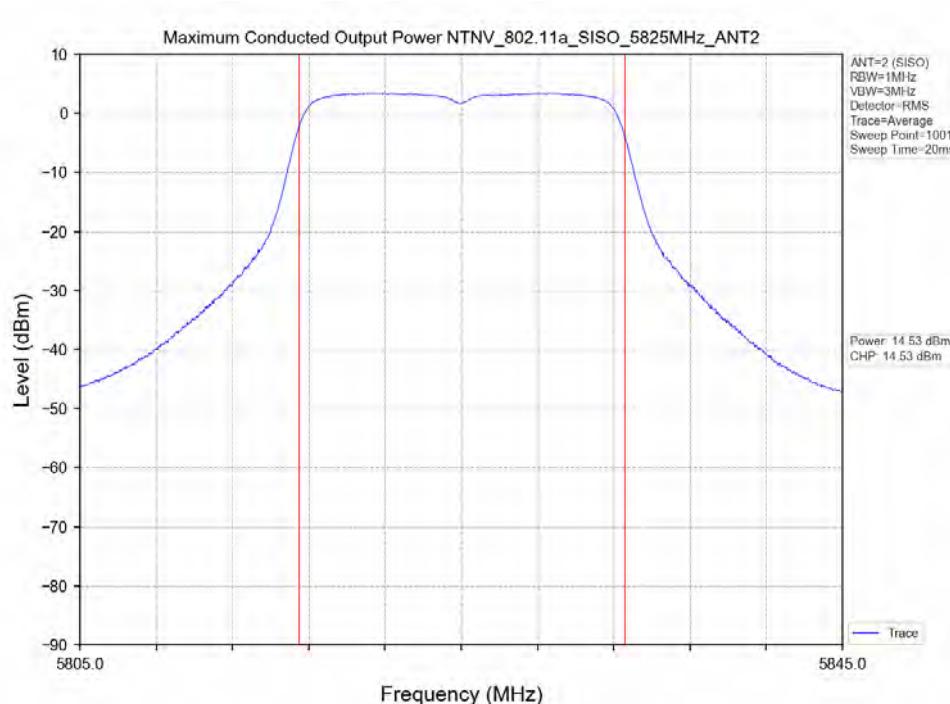
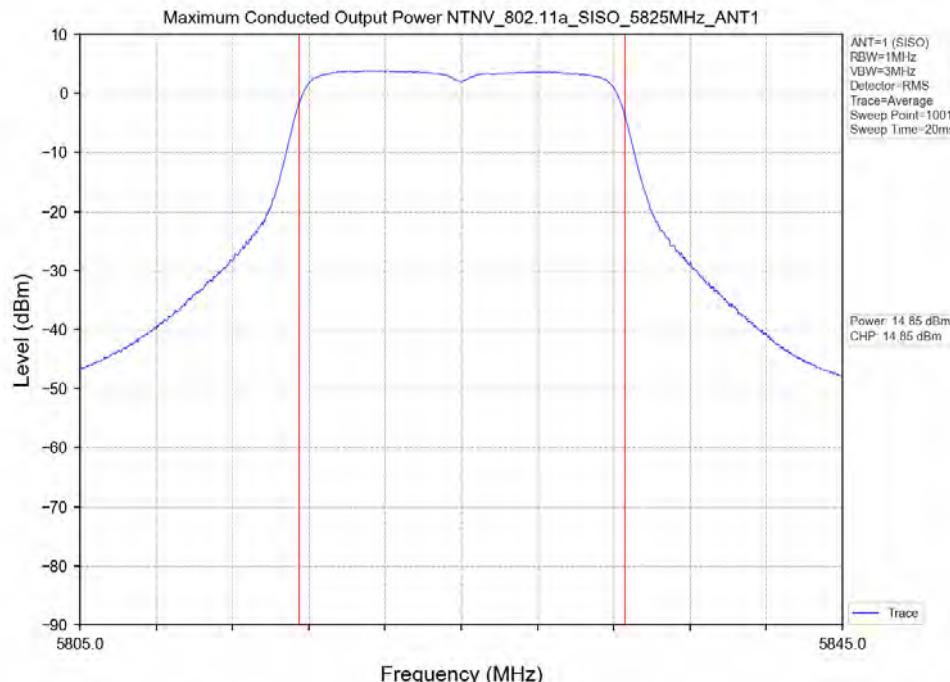
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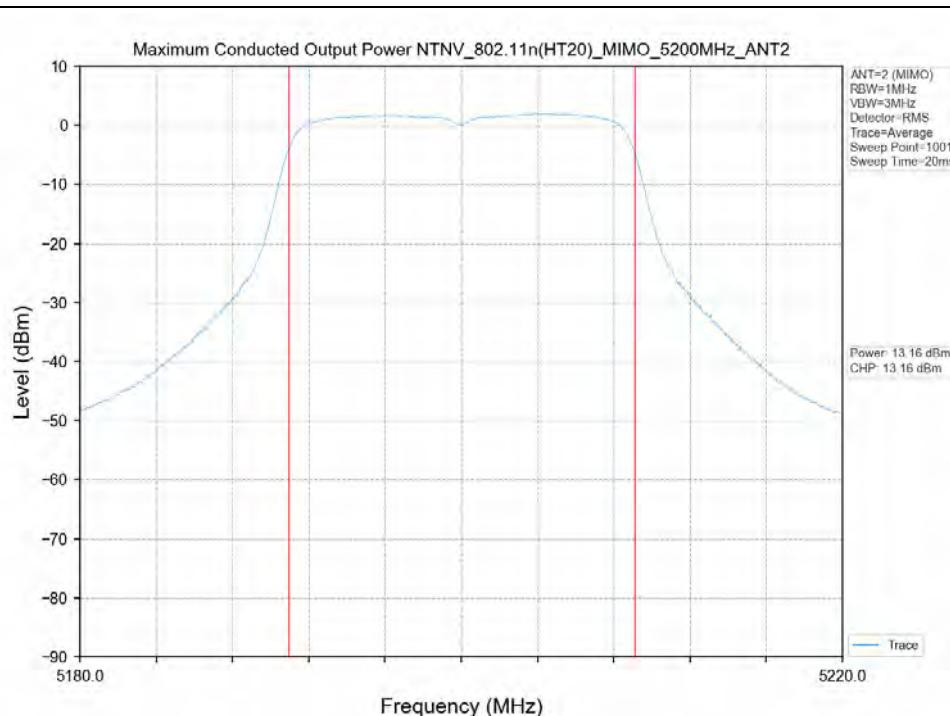
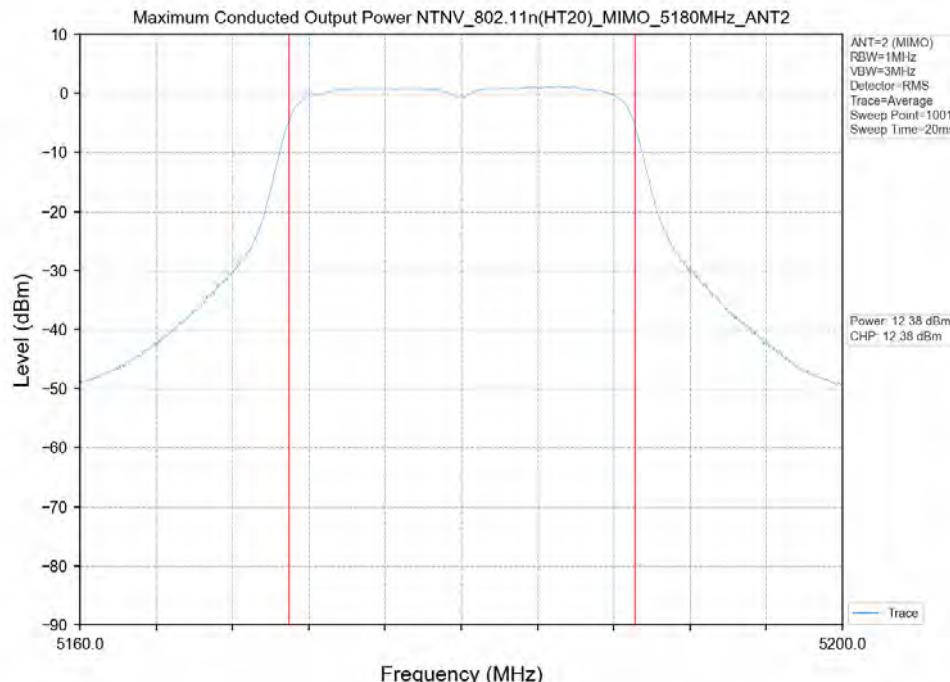
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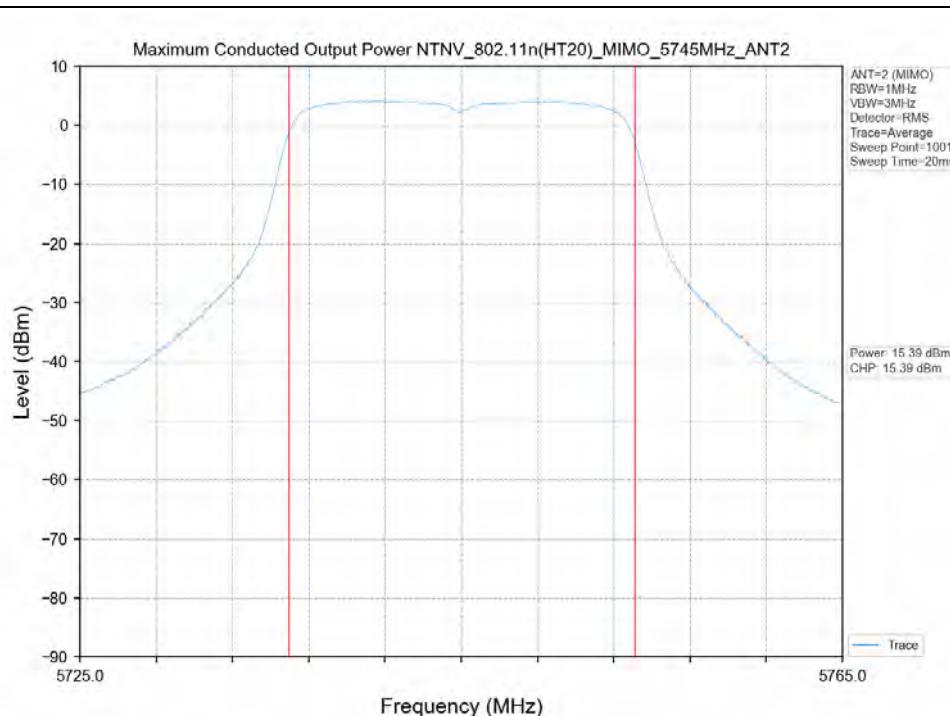
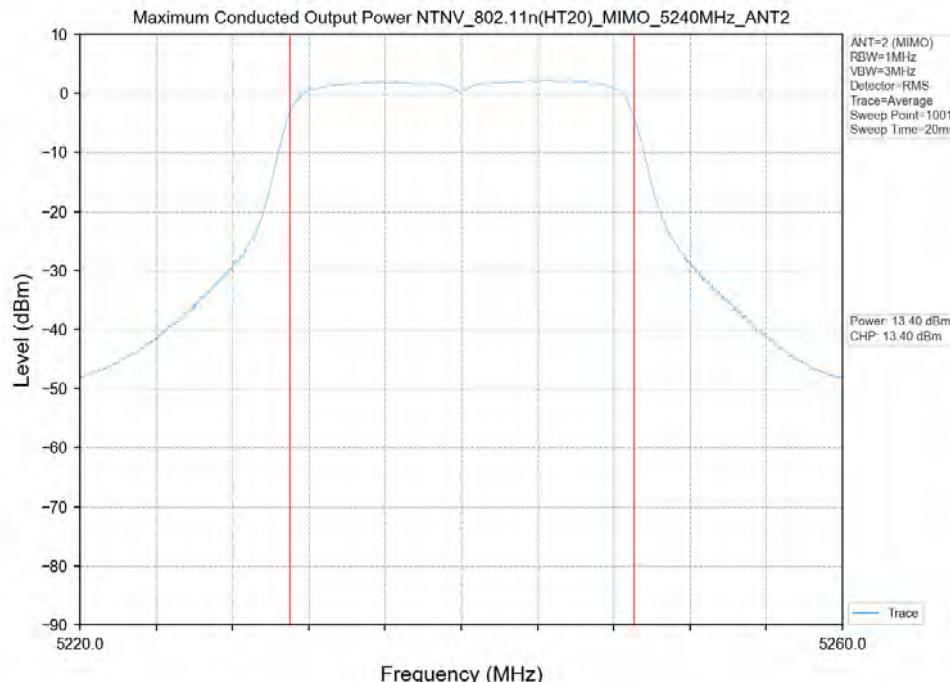
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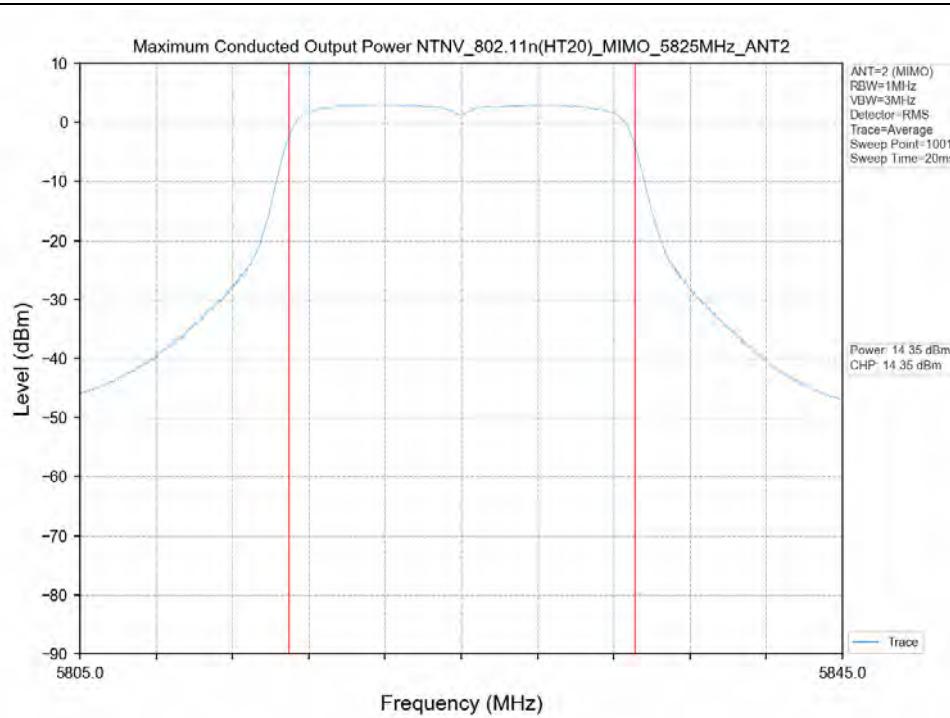
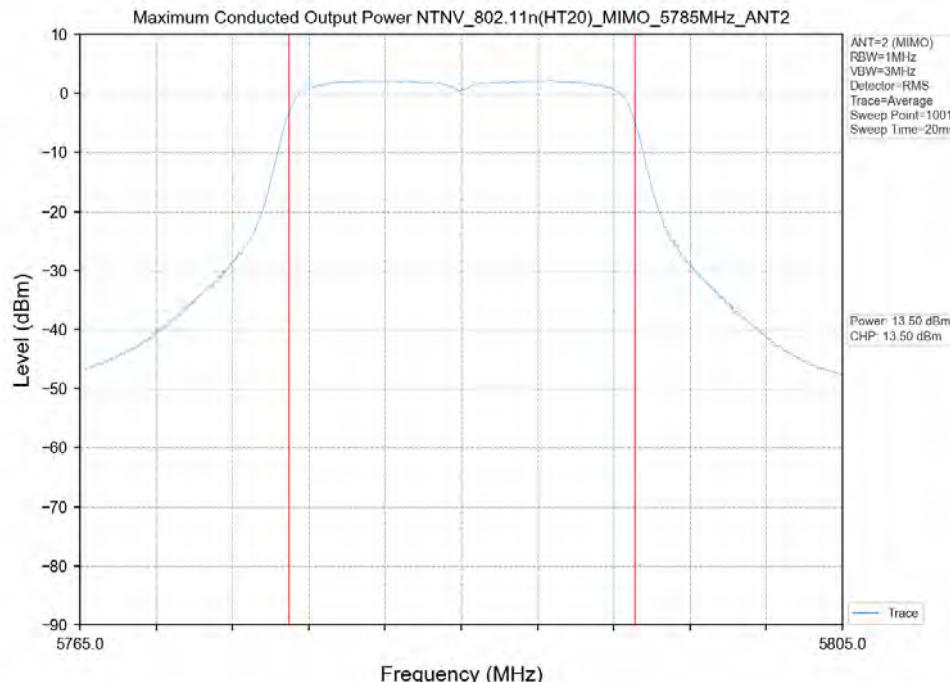
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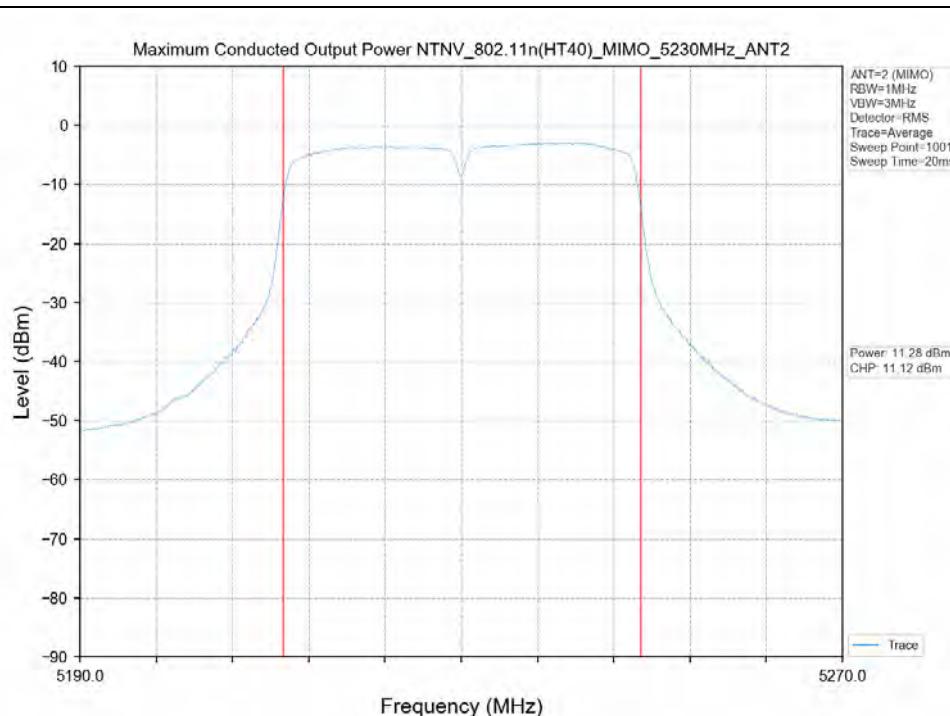
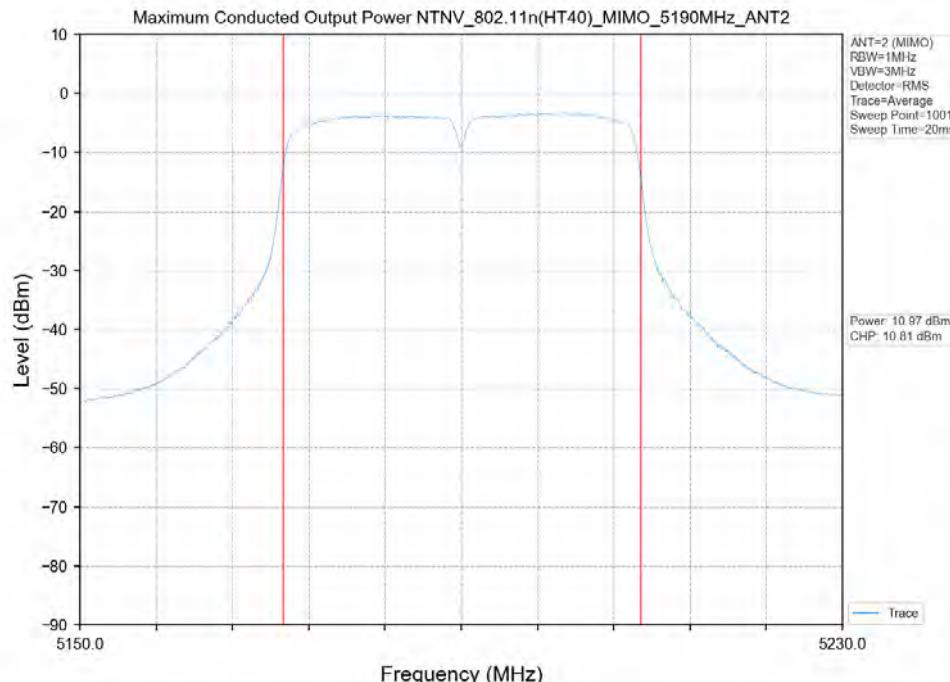
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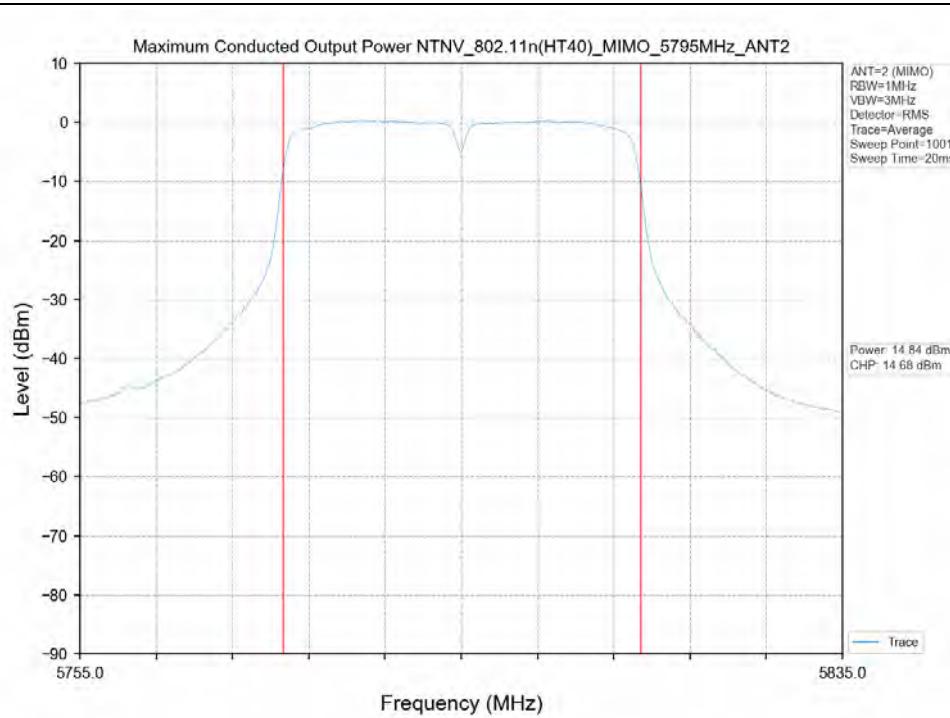
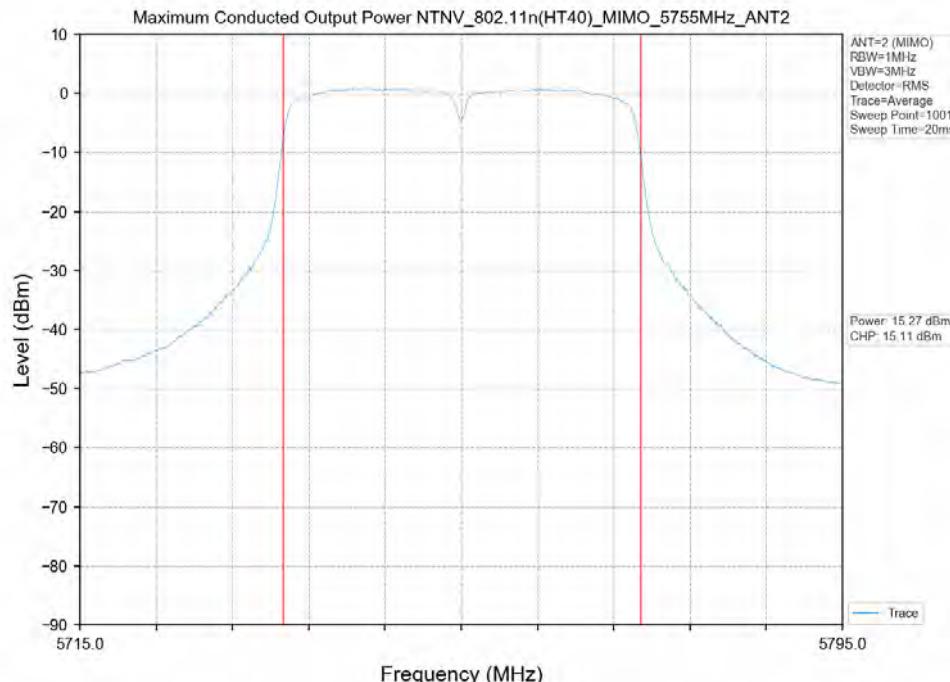
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#### 4. Maximum Power Spectral Density (PSD)

##### 4.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/MHz)			Limits (dBm/MHz)	Verdict
			Ant 1	Ant 2	Total		
802.11a	5180	SISO	2.30	1.71	/	≤11	PASS
	5200	SISO	1.18	1.49	/	≤11	PASS
	5240	SISO	1.42	1.67	/	≤11	PASS
802.11n(HT20)	5180	MIMO	1.94	1.09	4.50	≤11	PASS
	5200	MIMO	1.67	1.95	4.78	≤11	PASS
	5240	MIMO	1.16	2.21	4.68	≤11	PASS
802.11n(HT40)	5190	MIMO	-2.25	-3.06	0.34	≤11	PASS
	5230	MIMO	-3.02	-2.62	0.16	≤11	PASS

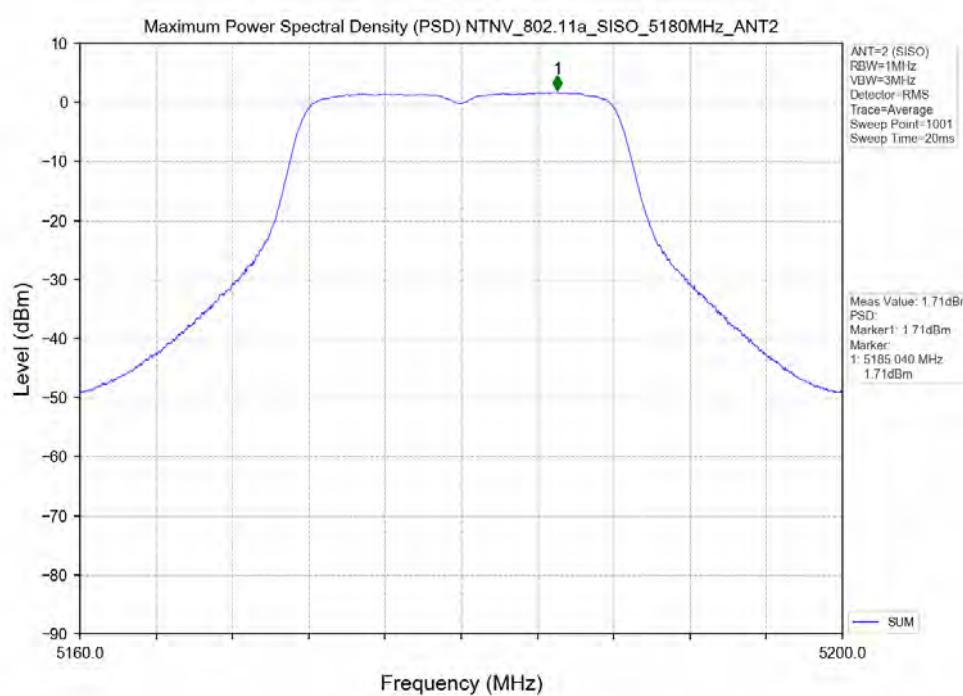
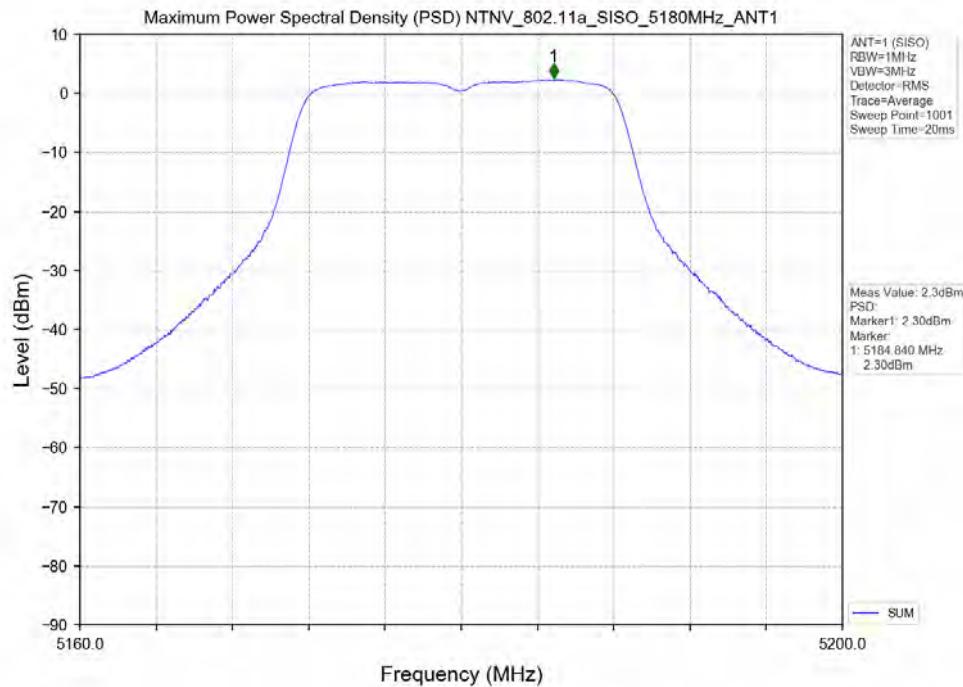
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/500kHz)			Limits (dBm/500kHz)	Verdict
			Ant 1	Ant 2	Total		
802.11a	5745	SISO	1.82	1.19	/	≤30	PASS
	5785	SISO	2.14	1.52	/	≤30	PASS
	5825	SISO	0.93	0.74	/	≤30	PASS
802.11n(HT20)	5745	MIMO	1.74	1.14	4.46	≤30	PASS
	5785	MIMO	1.67	-0.85	3.58	≤30	PASS
	5825	MIMO	0.94	0.13	3.55	≤30	PASS
802.11n(HT40)	5755	MIMO	-1.47	-1.43	1.45	≤30	PASS
	5795	MIMO	-1.86	-2.42	0.87	≤30	PASS

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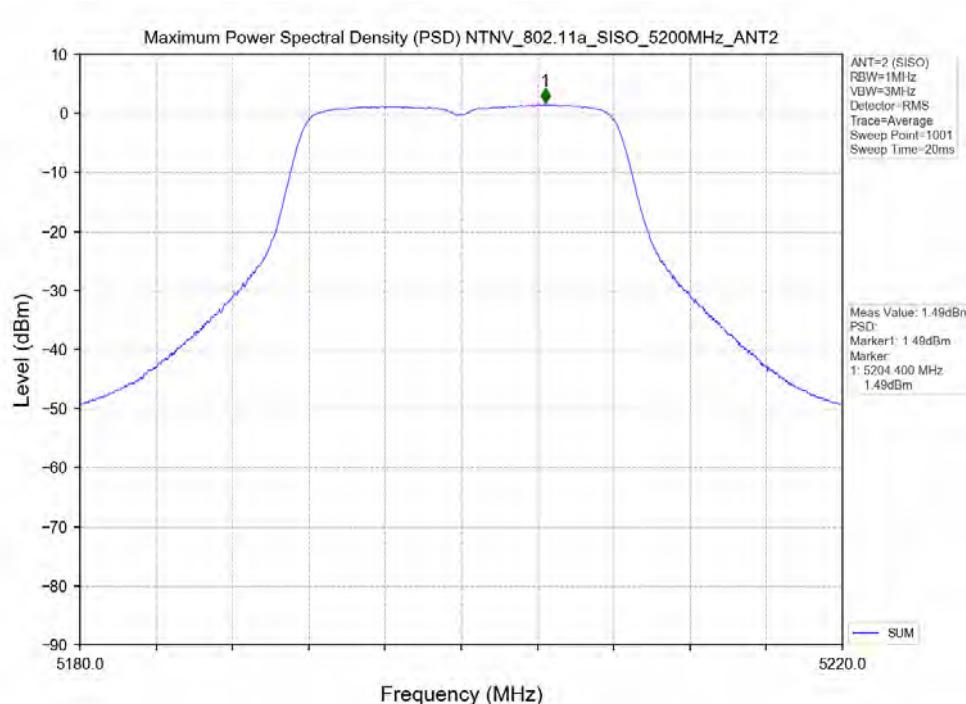
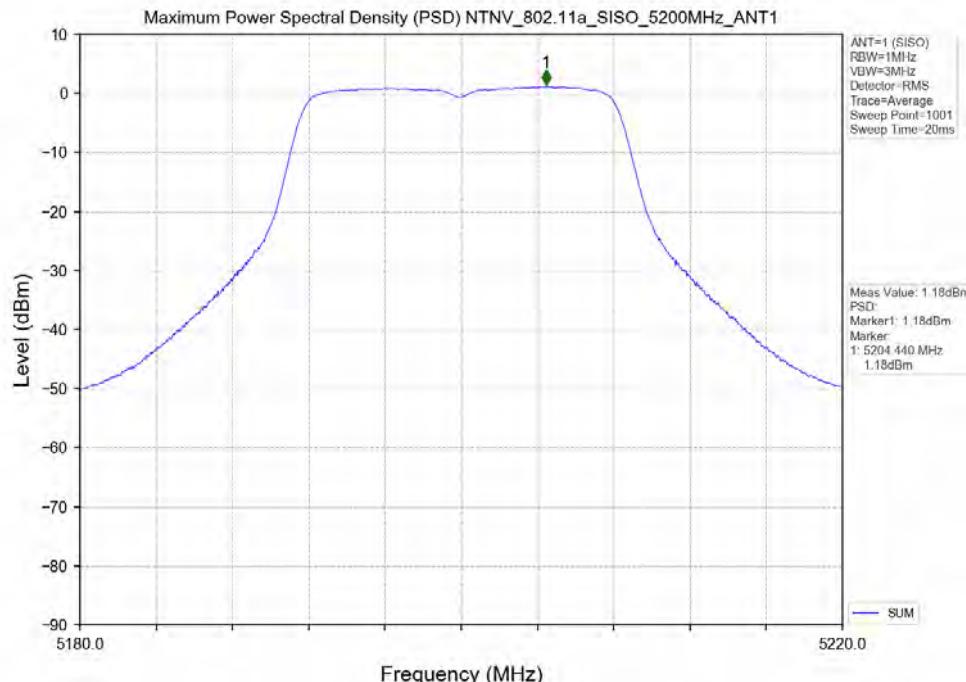


## 4.2 Test Graph



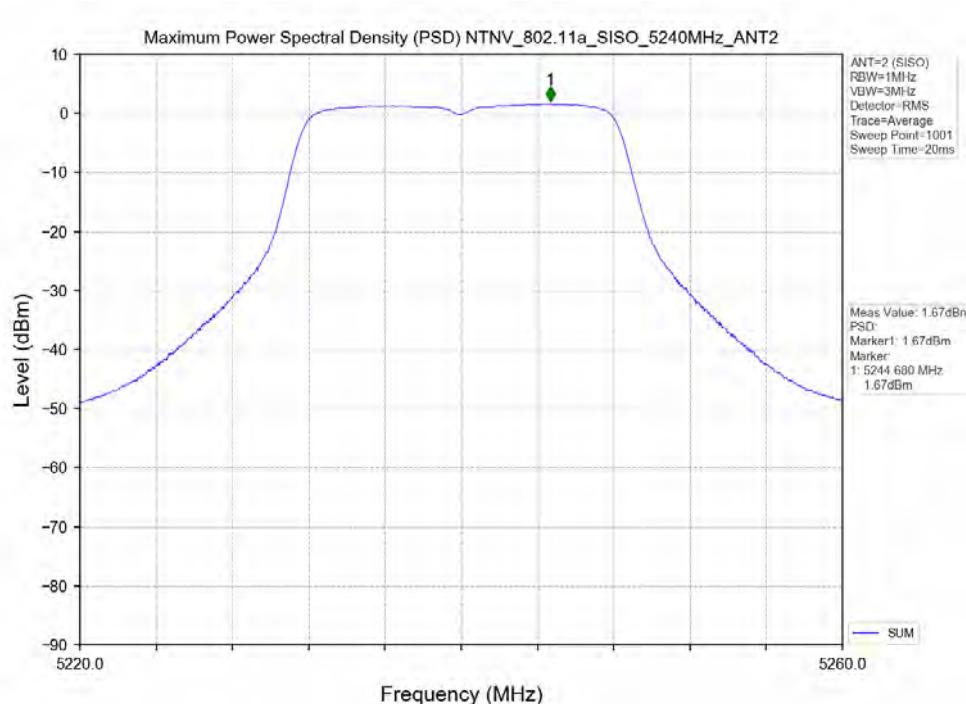
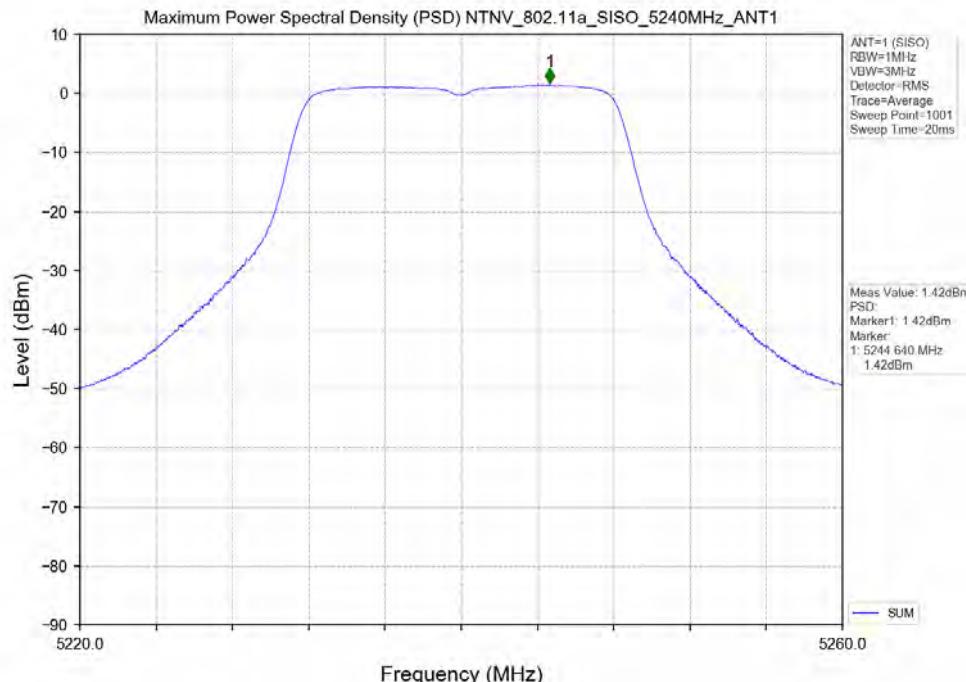
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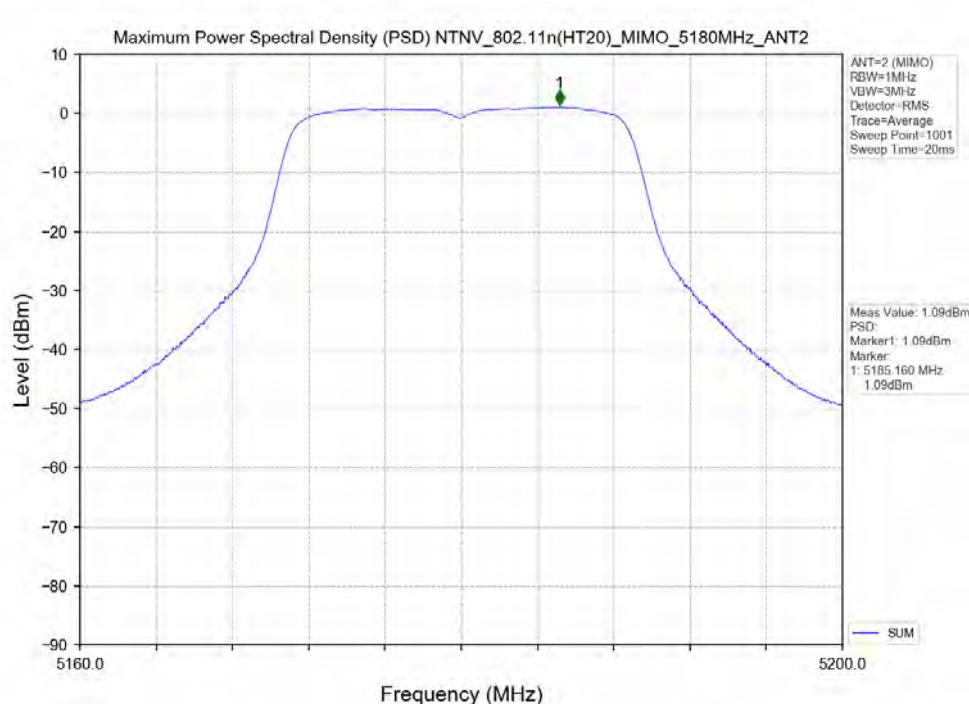
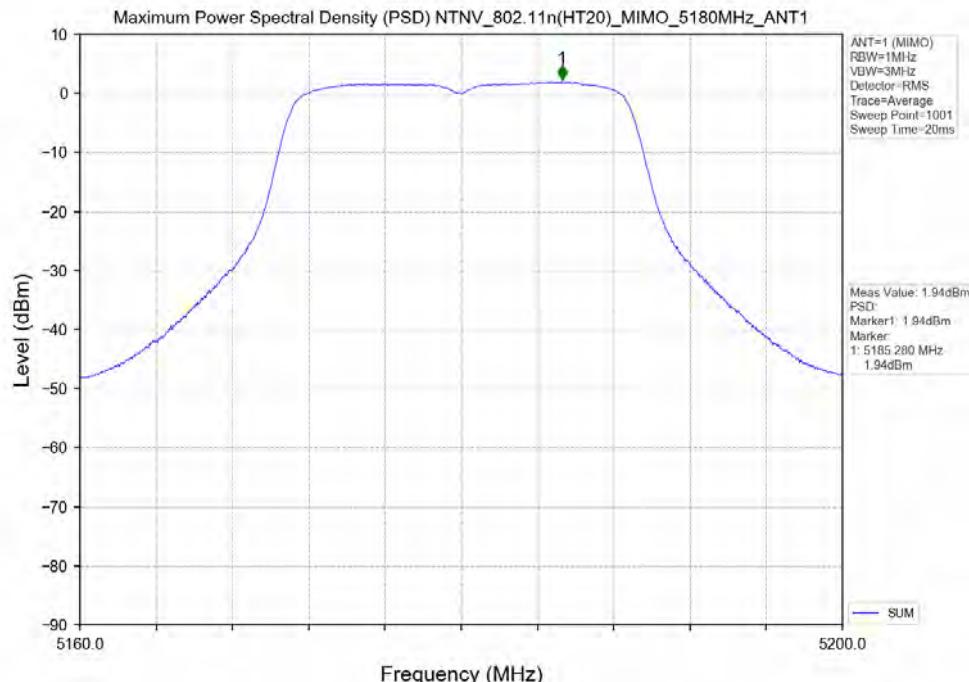
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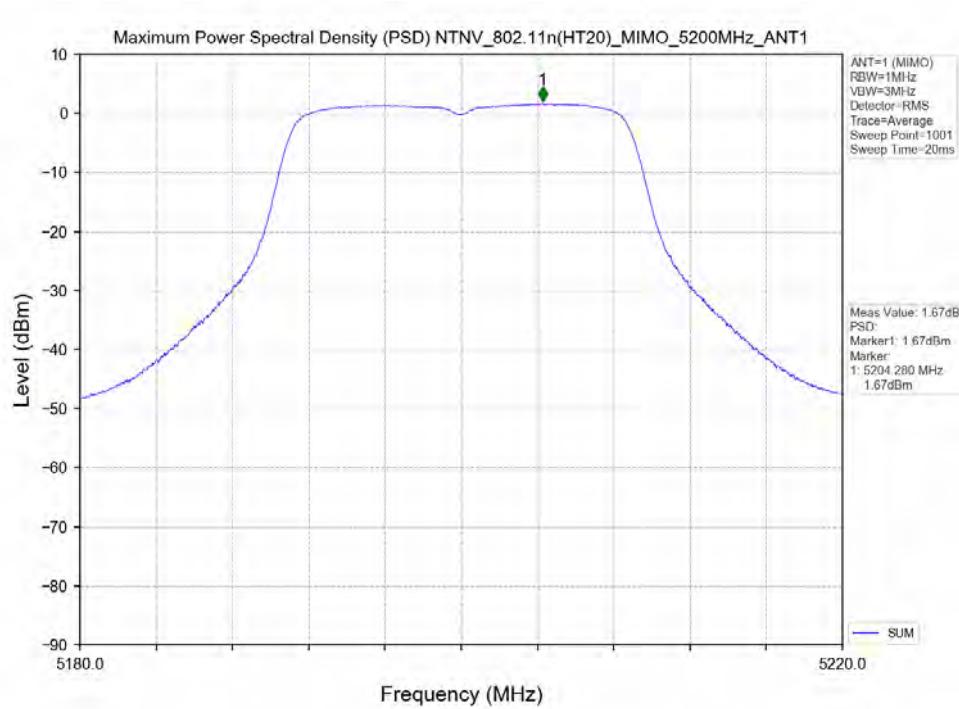
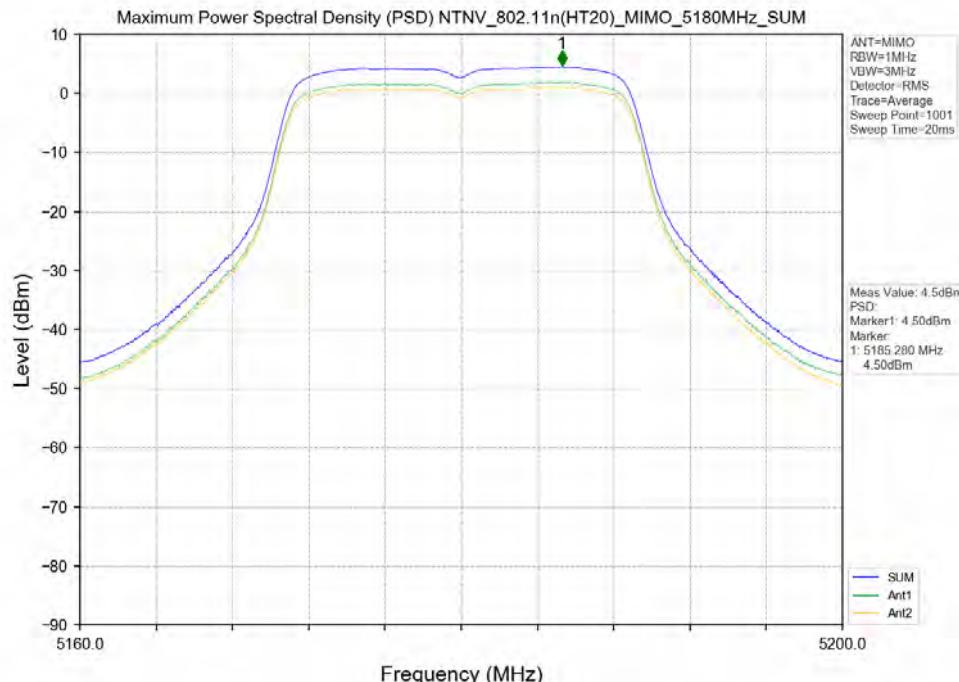
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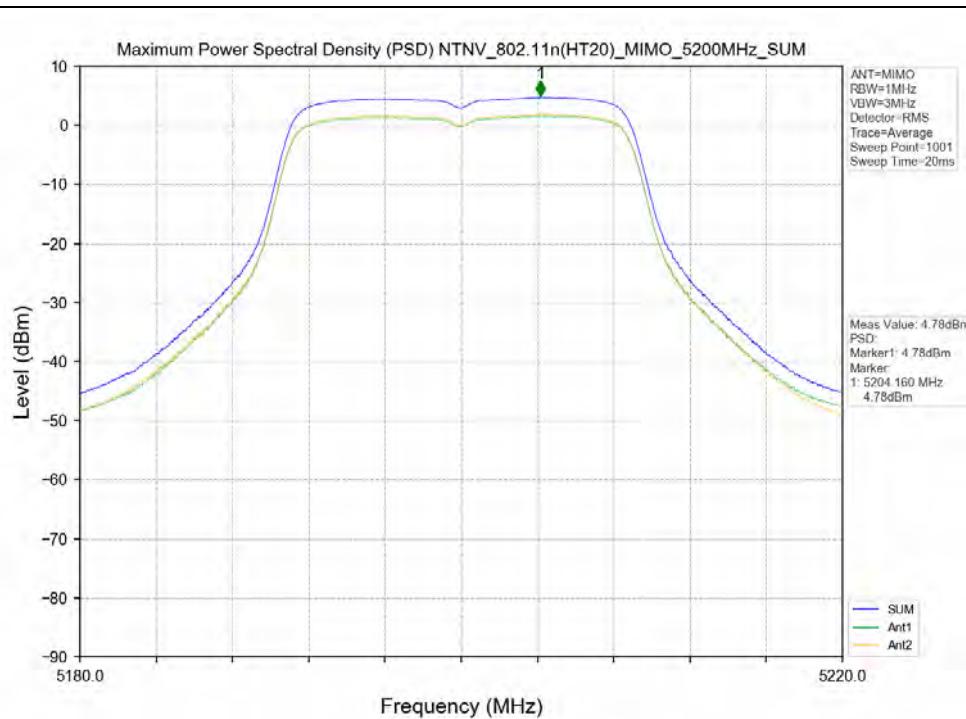
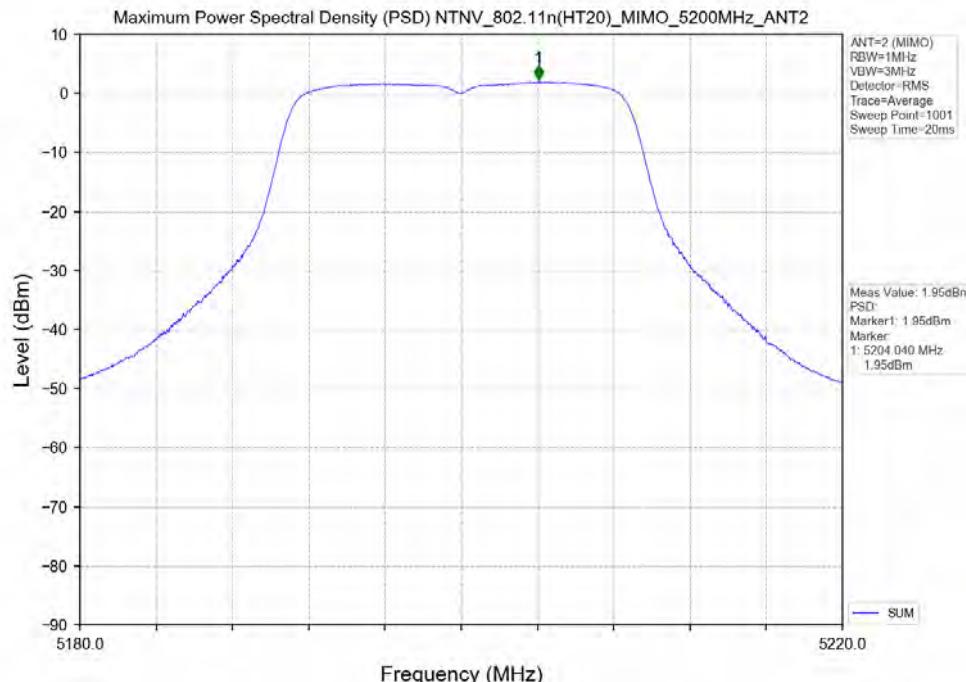
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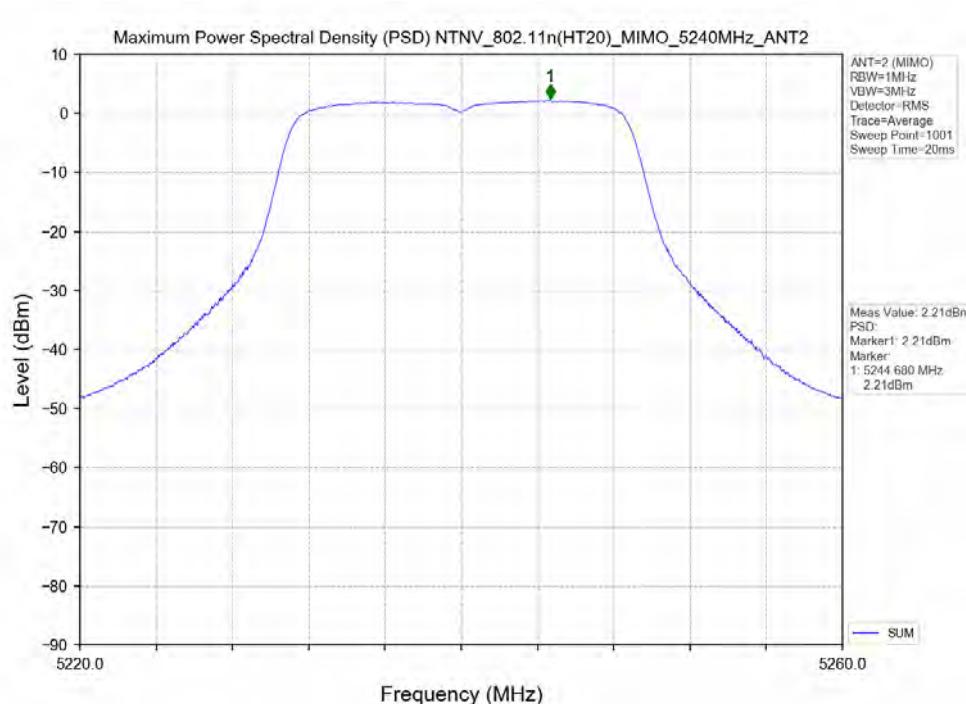
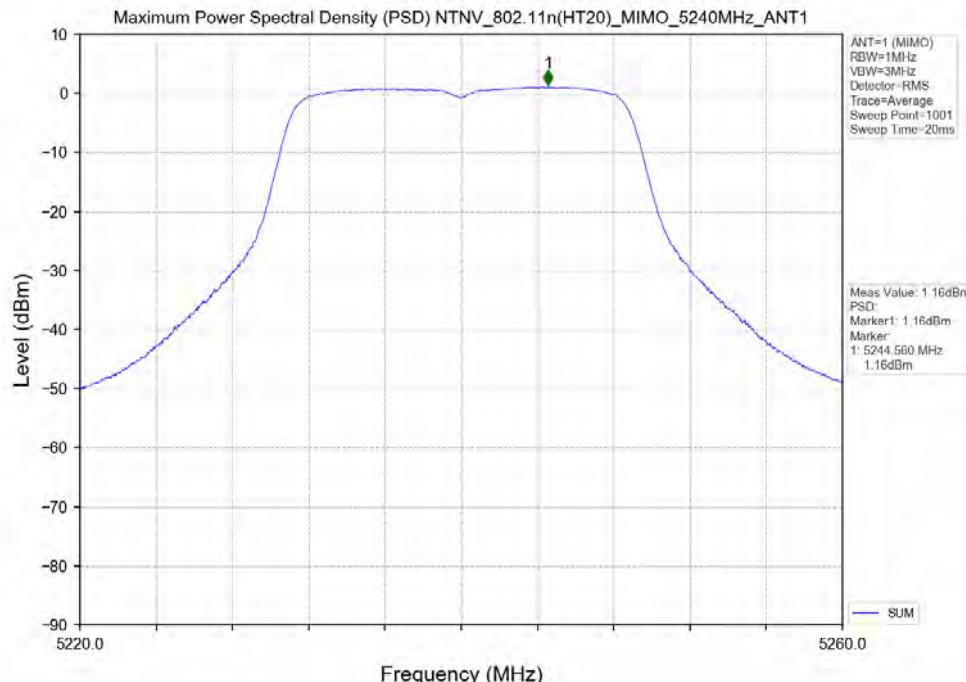
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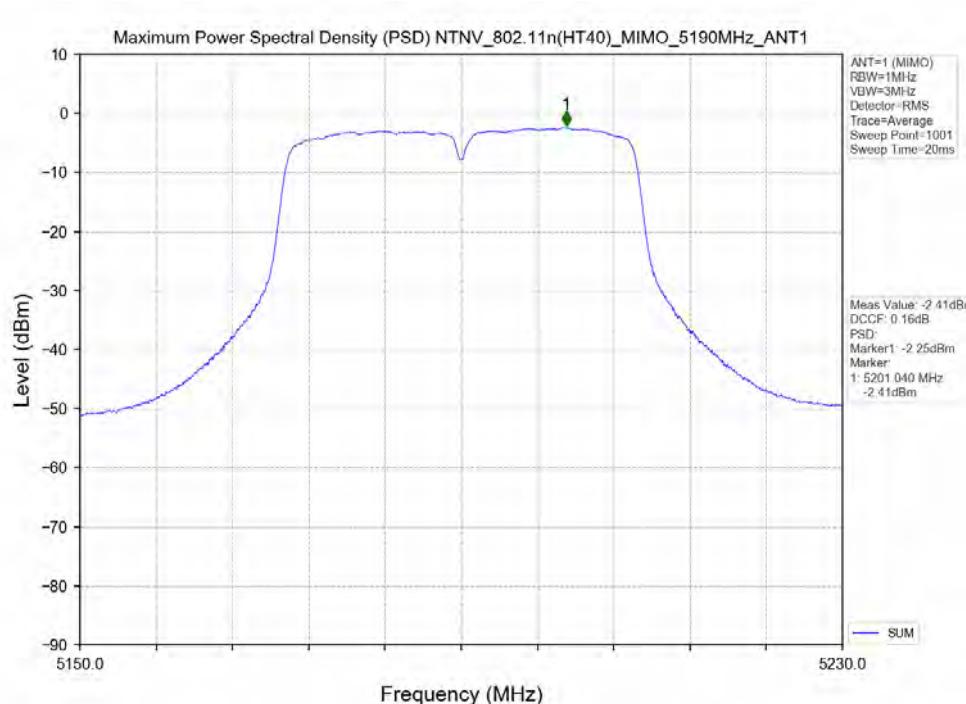
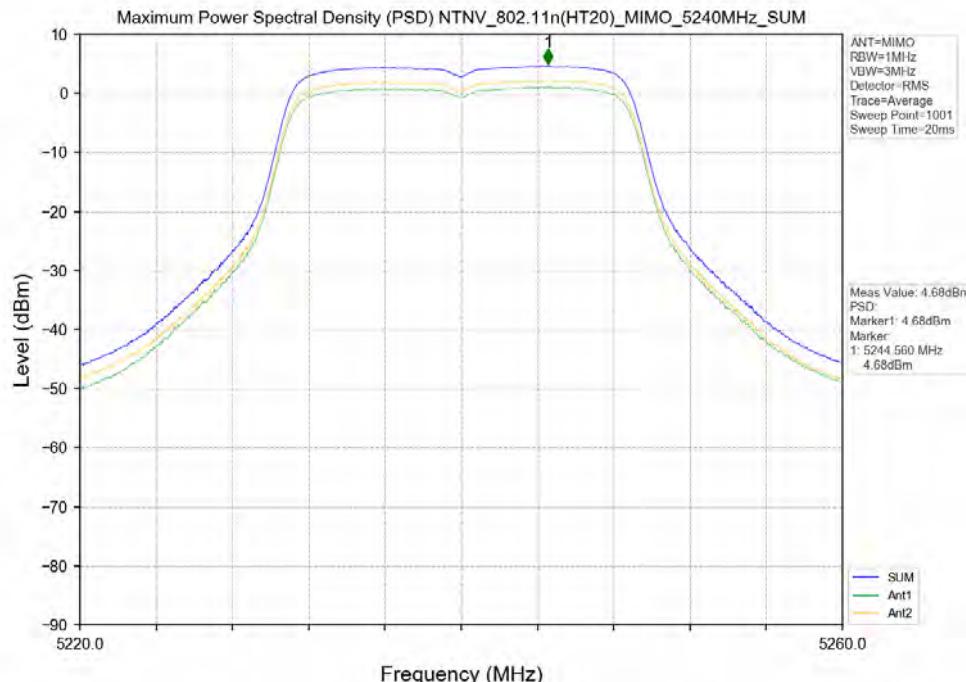
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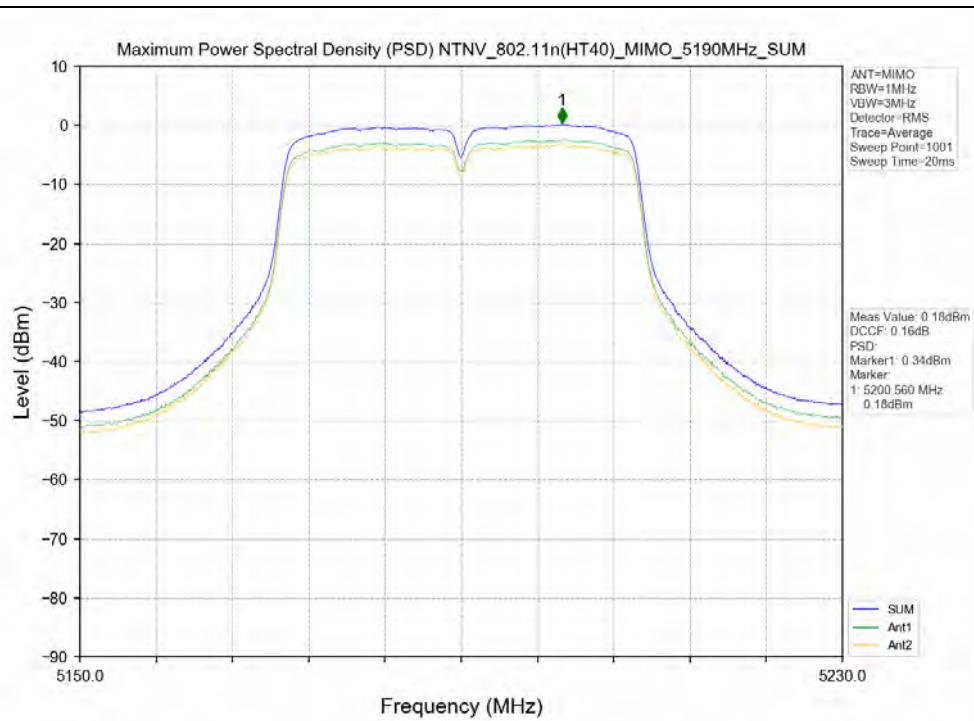
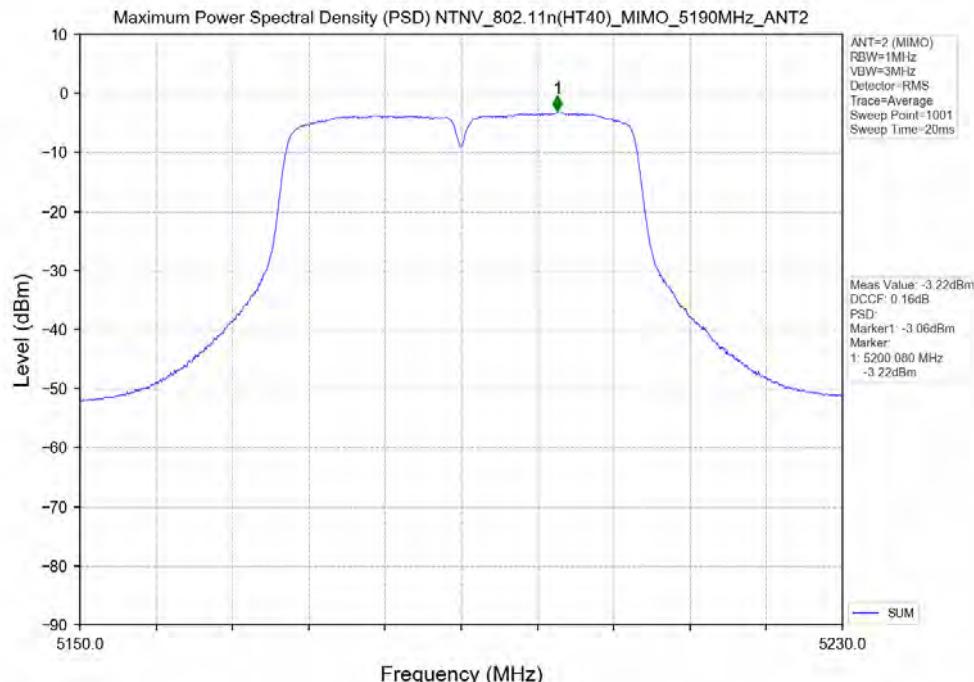
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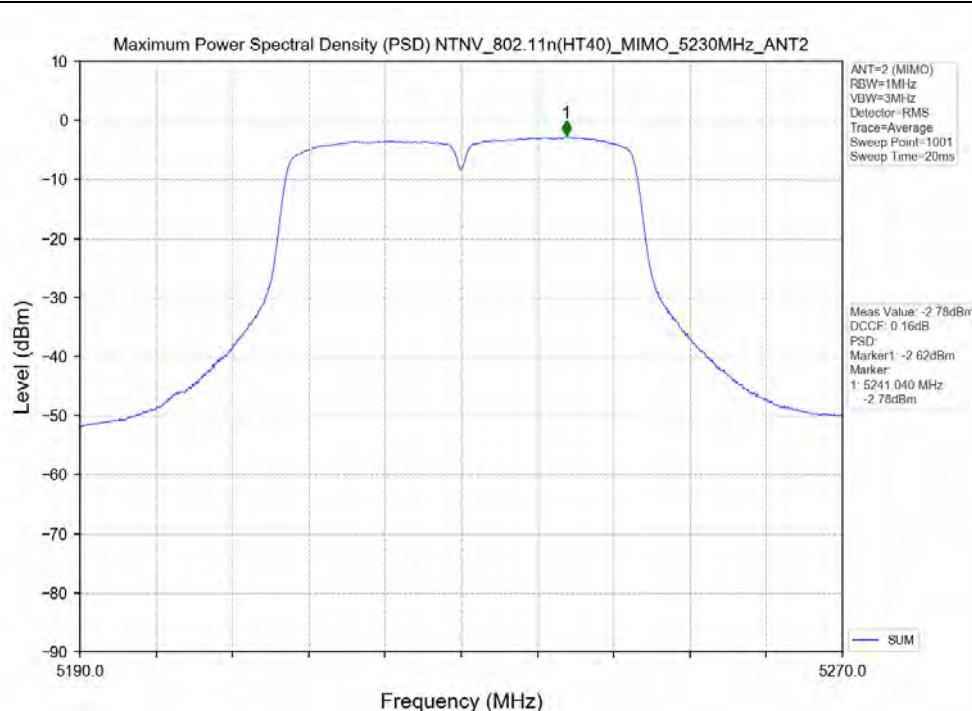
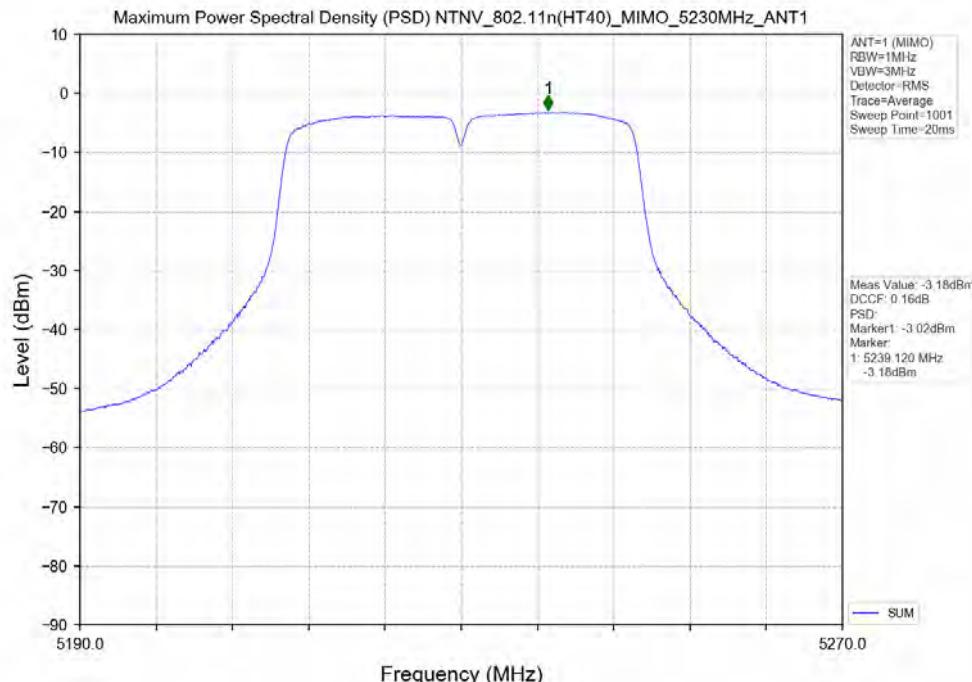
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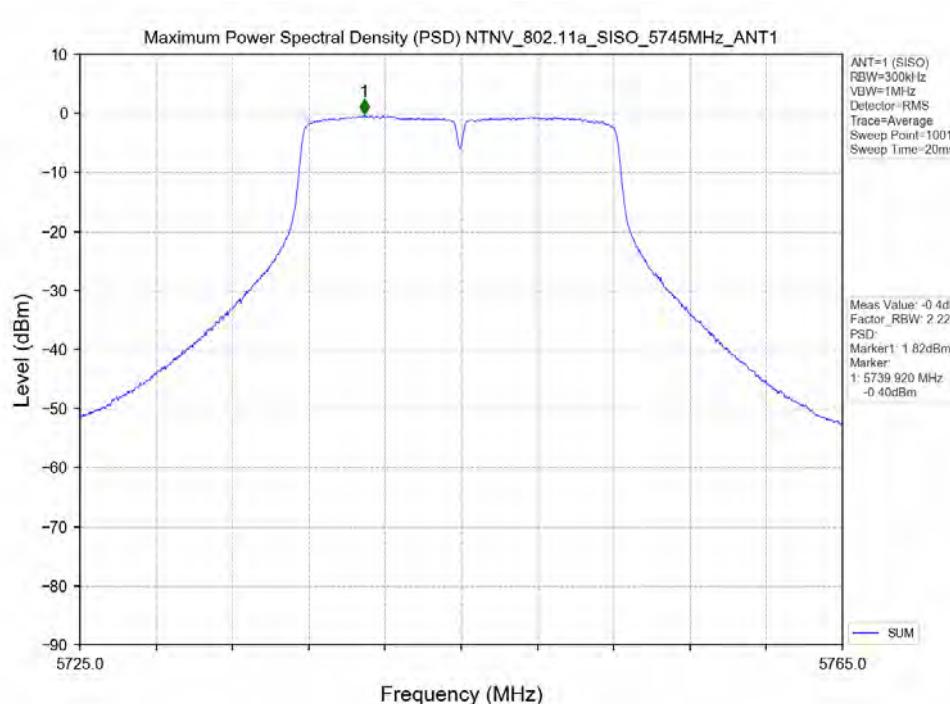
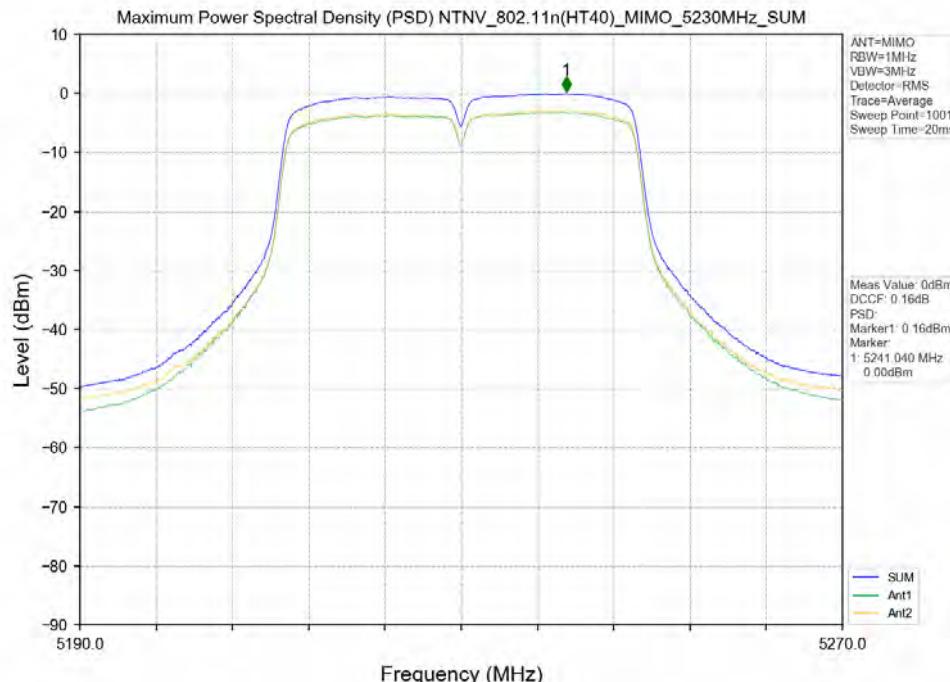
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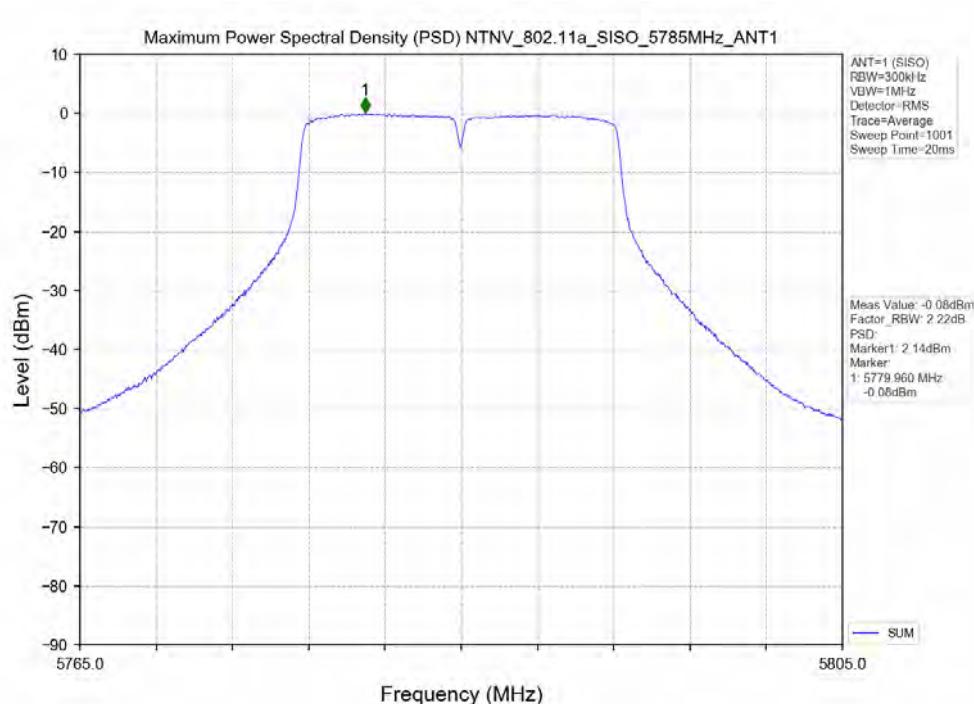
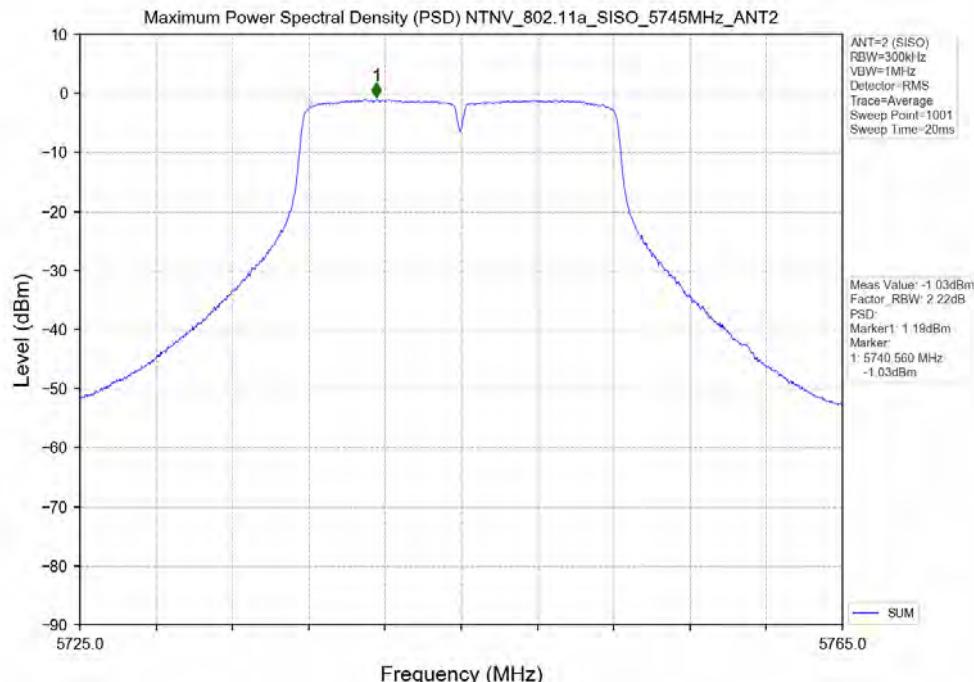
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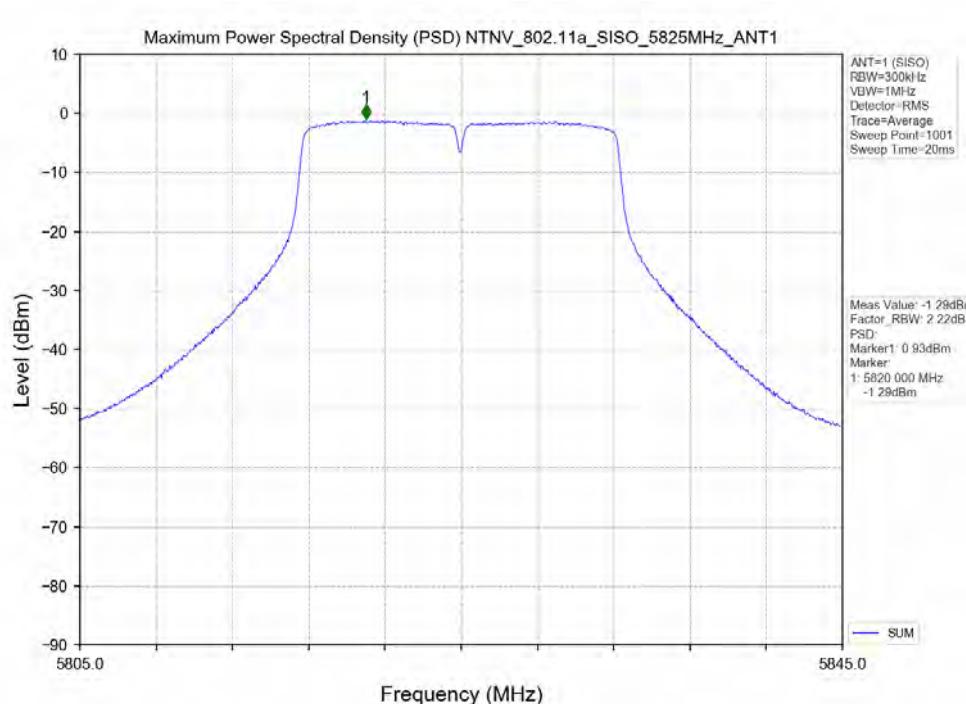
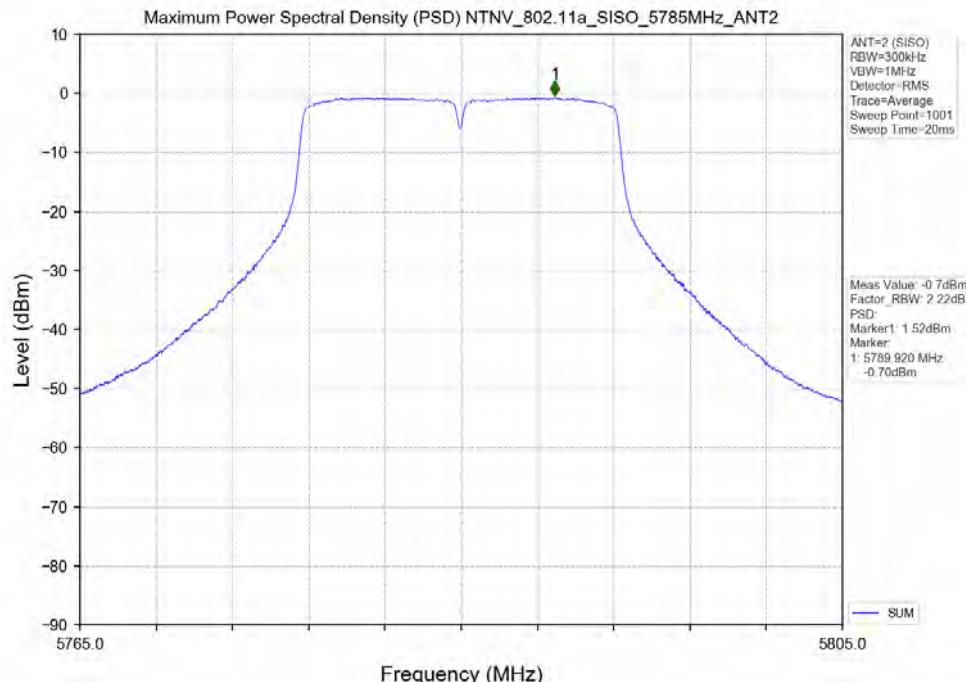
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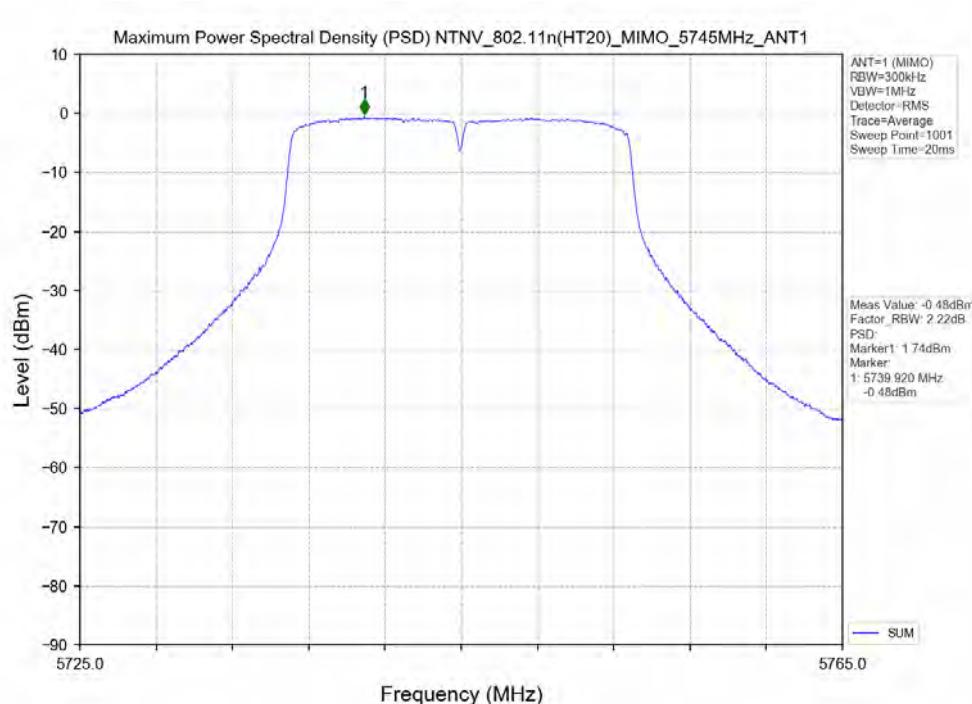
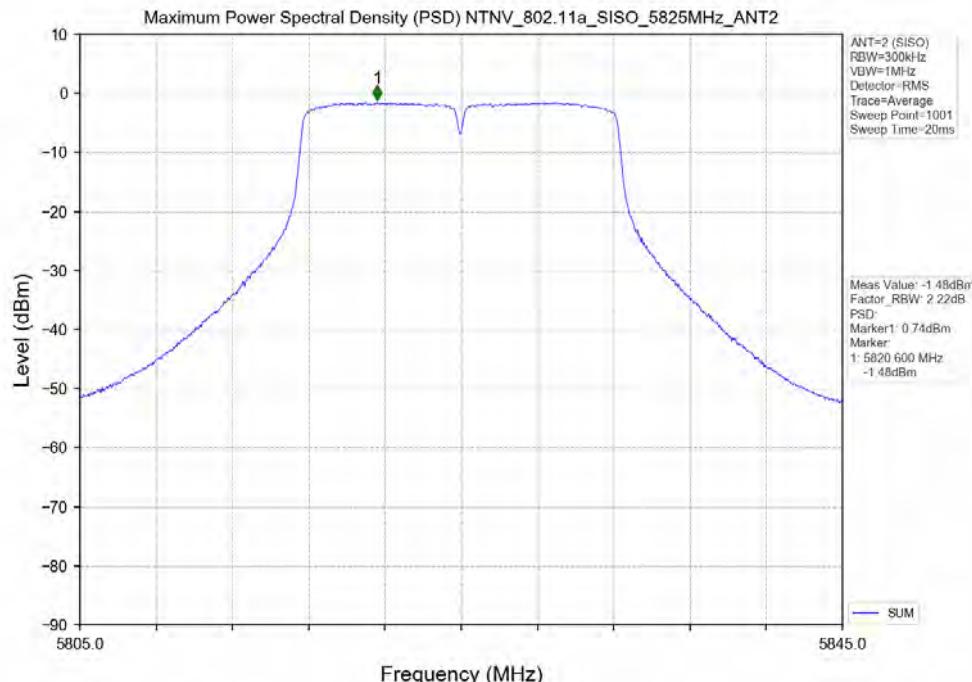
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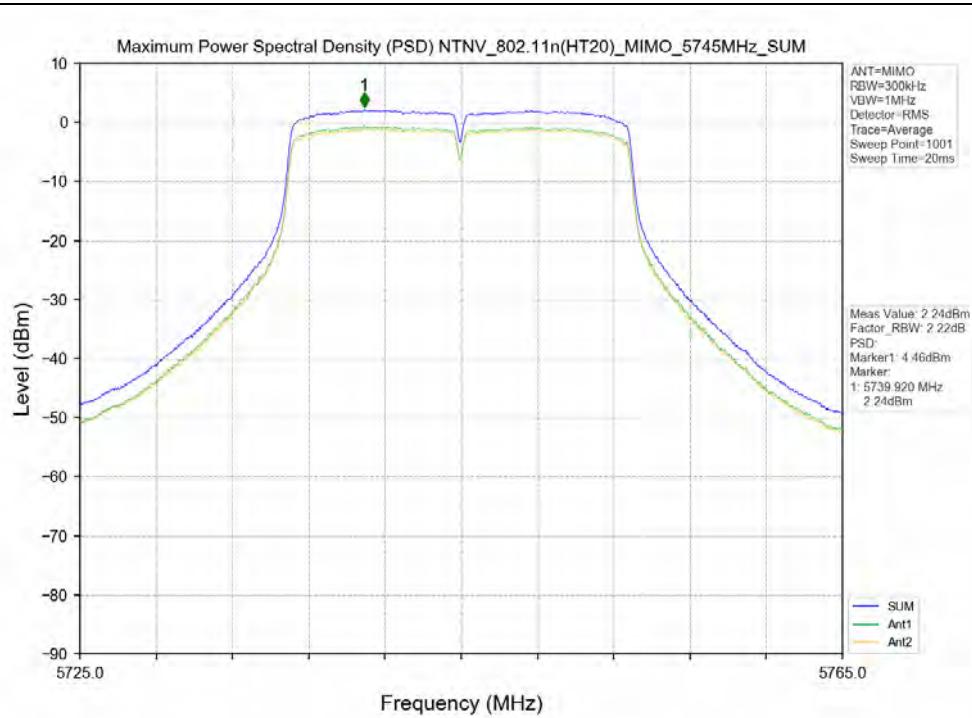
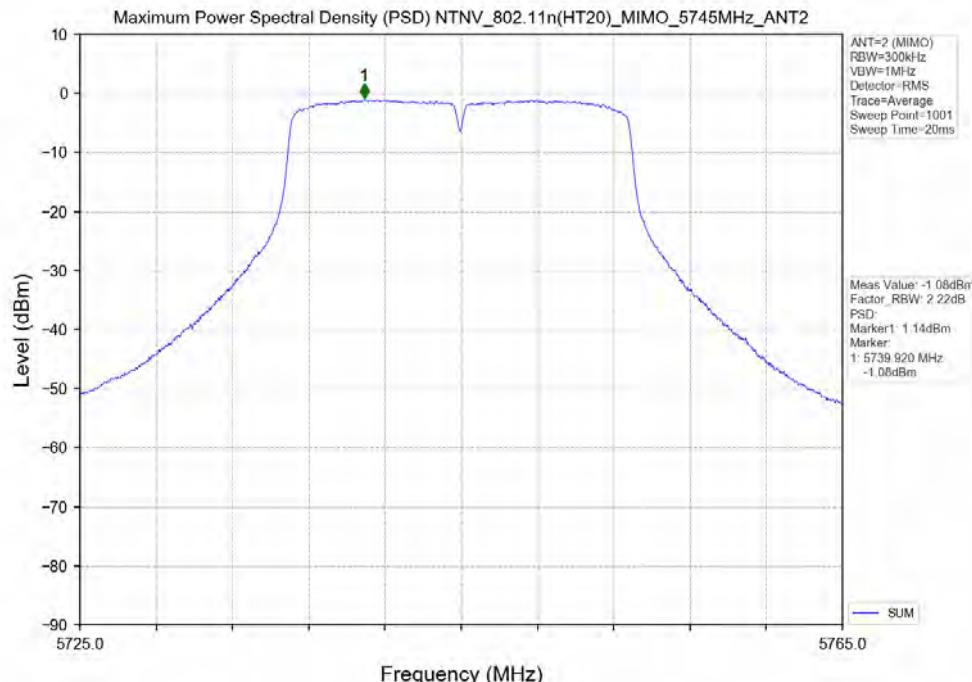
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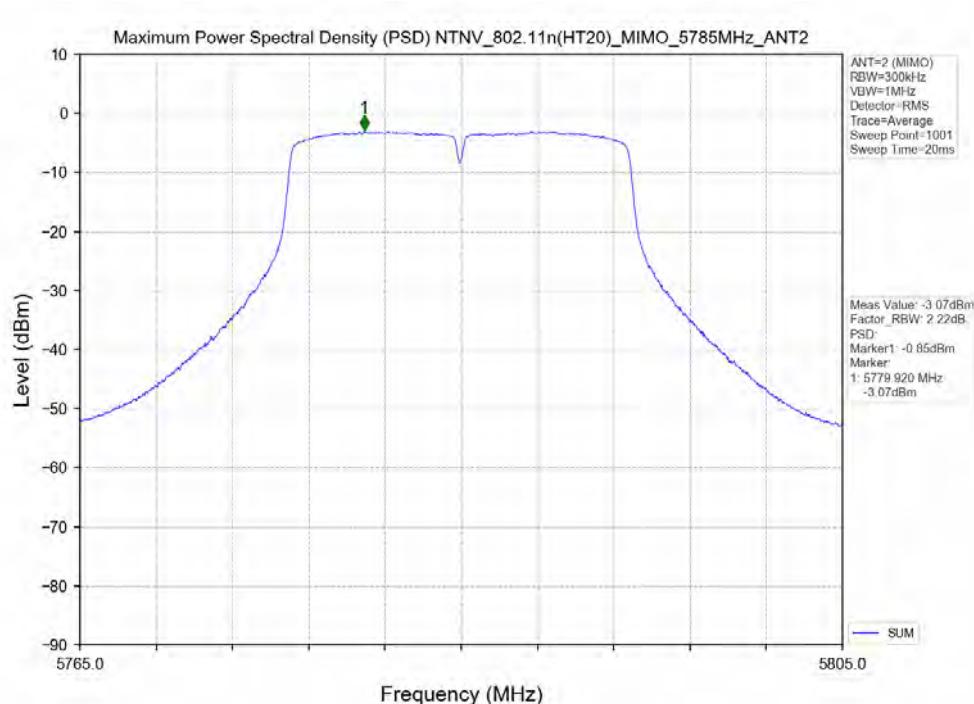
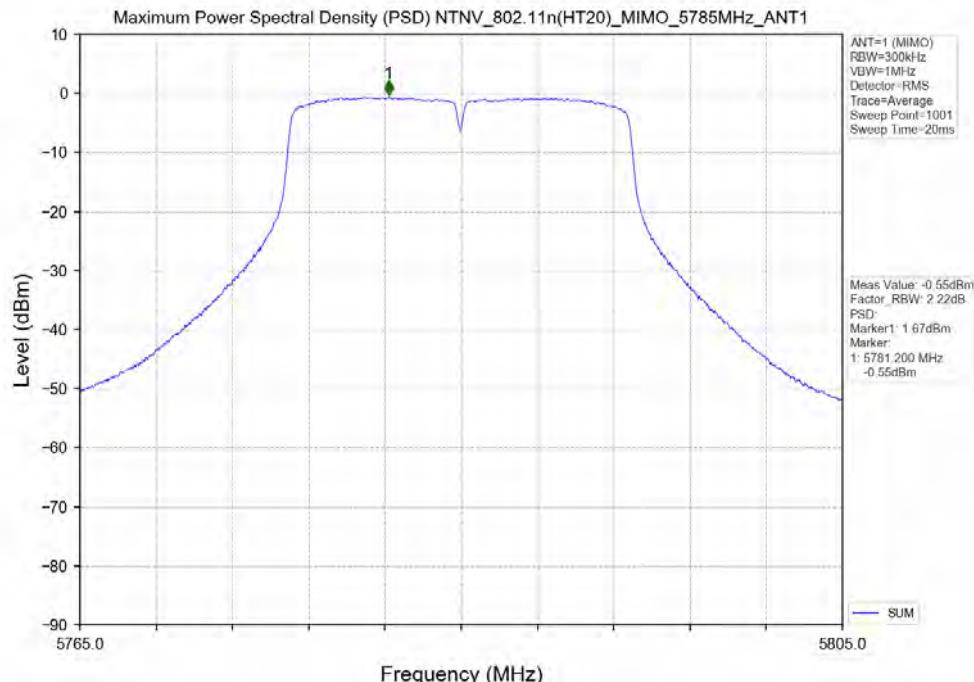
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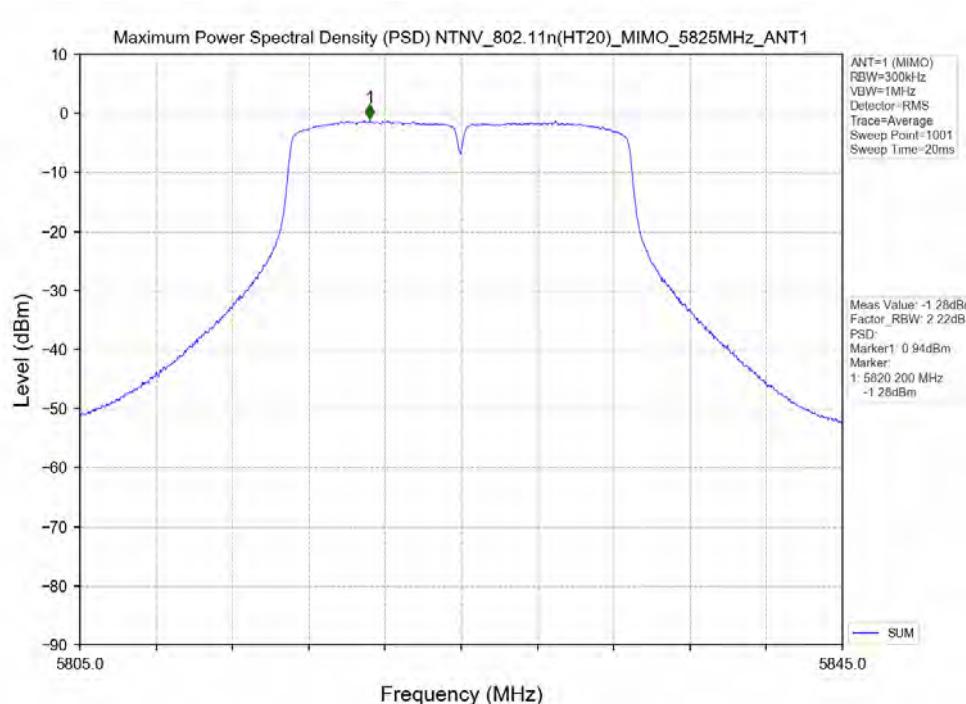
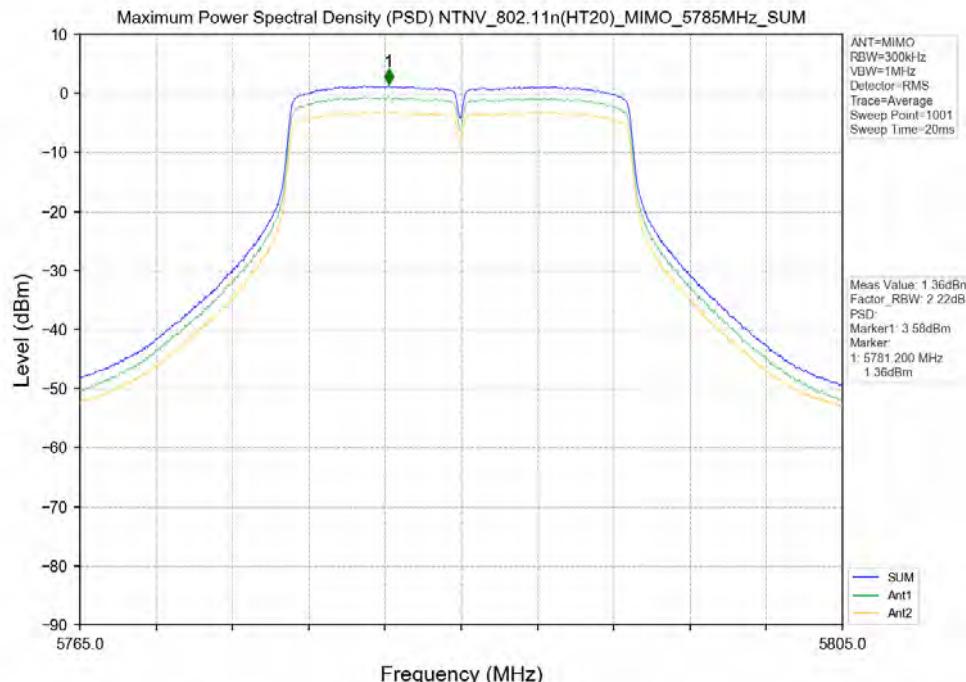
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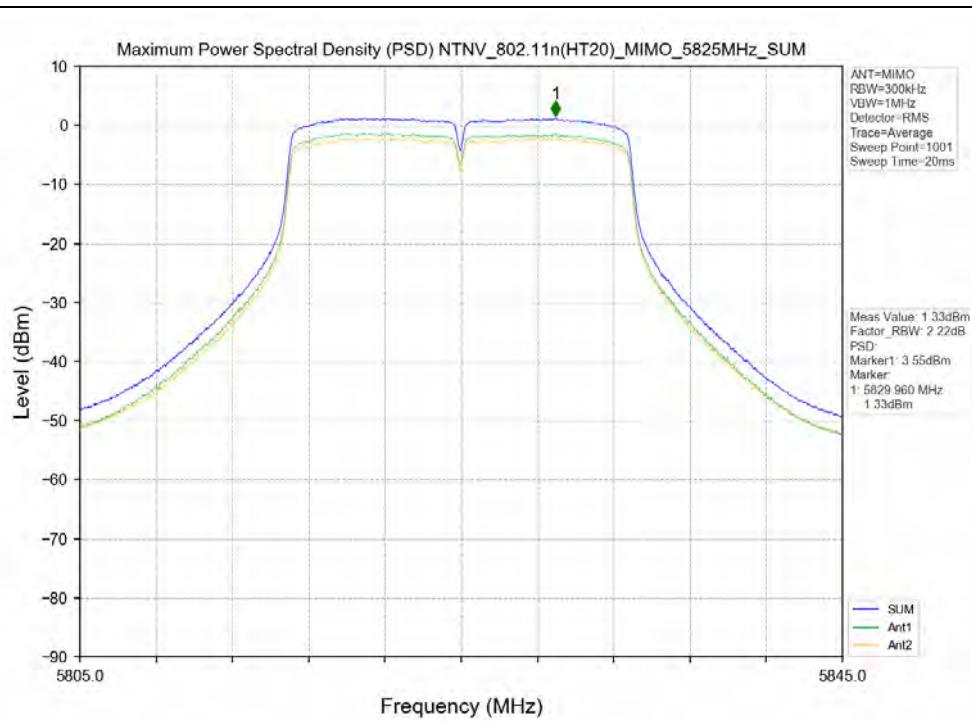
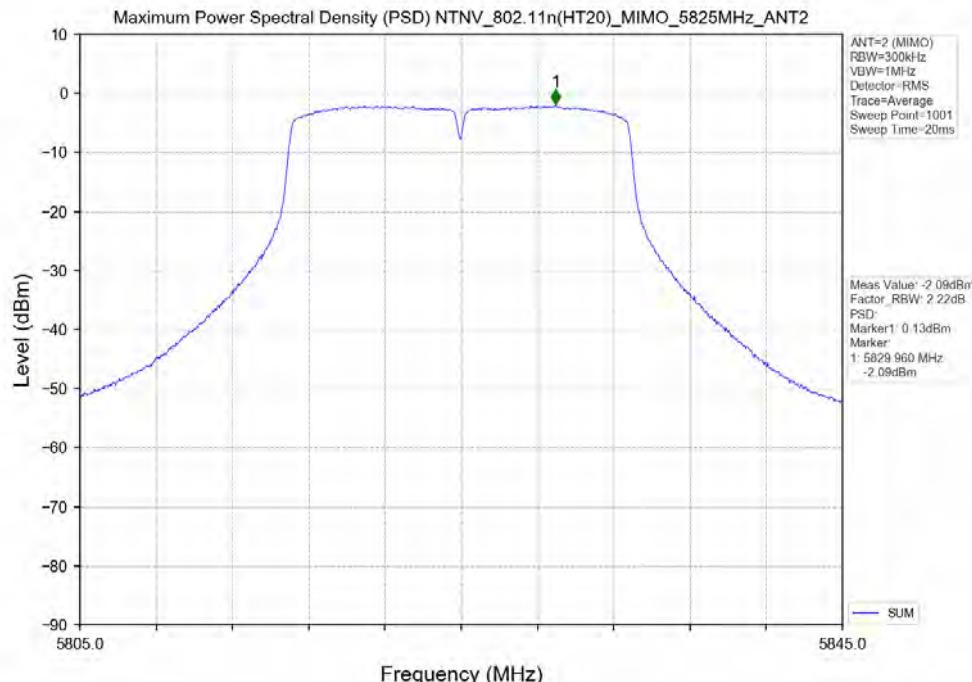
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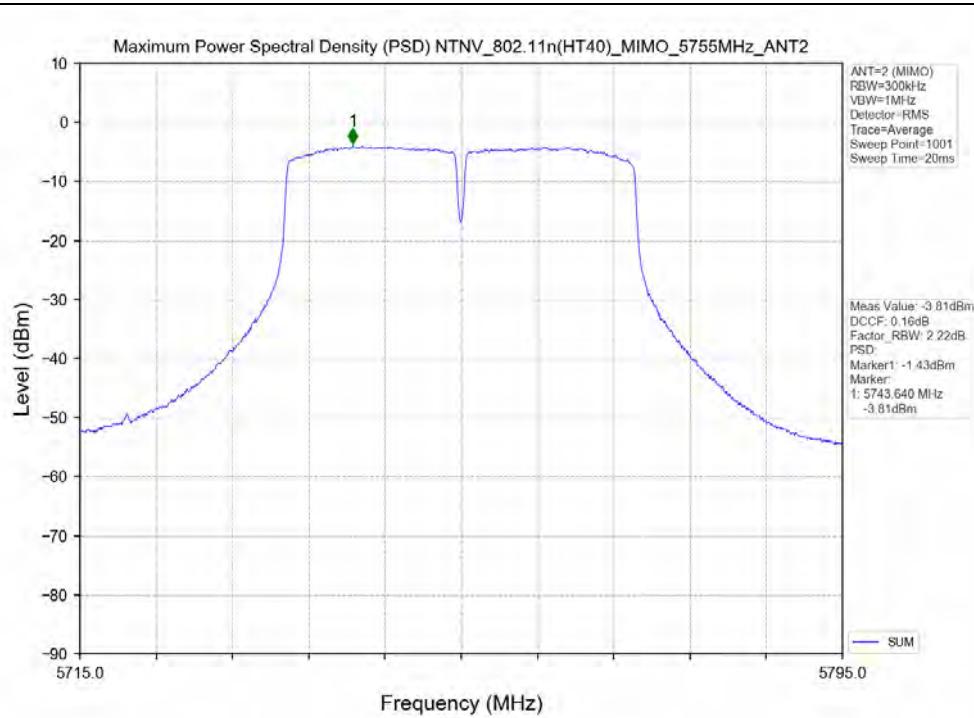
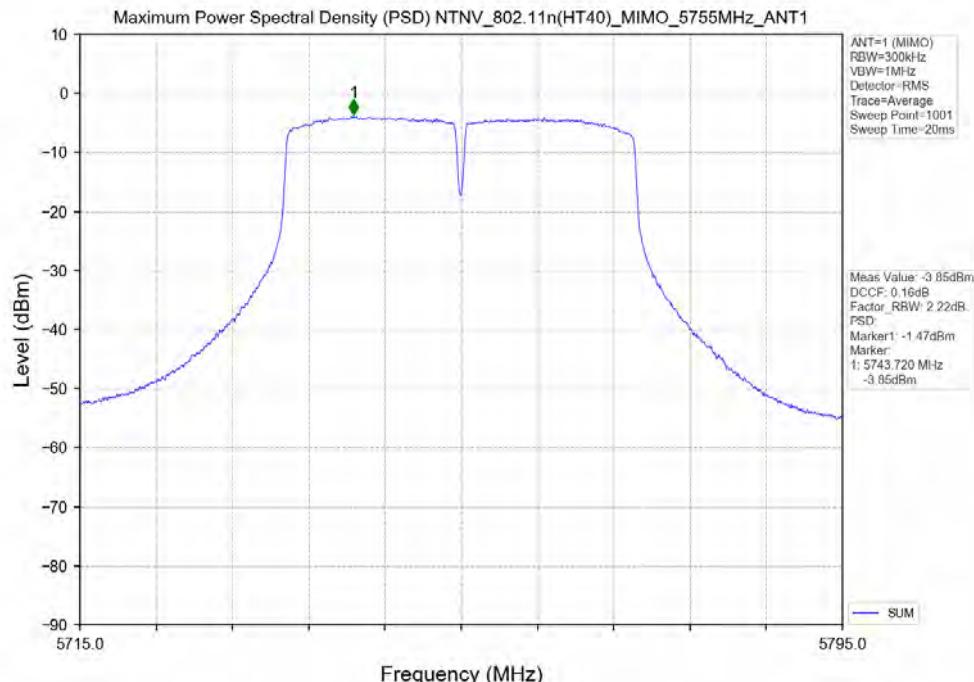
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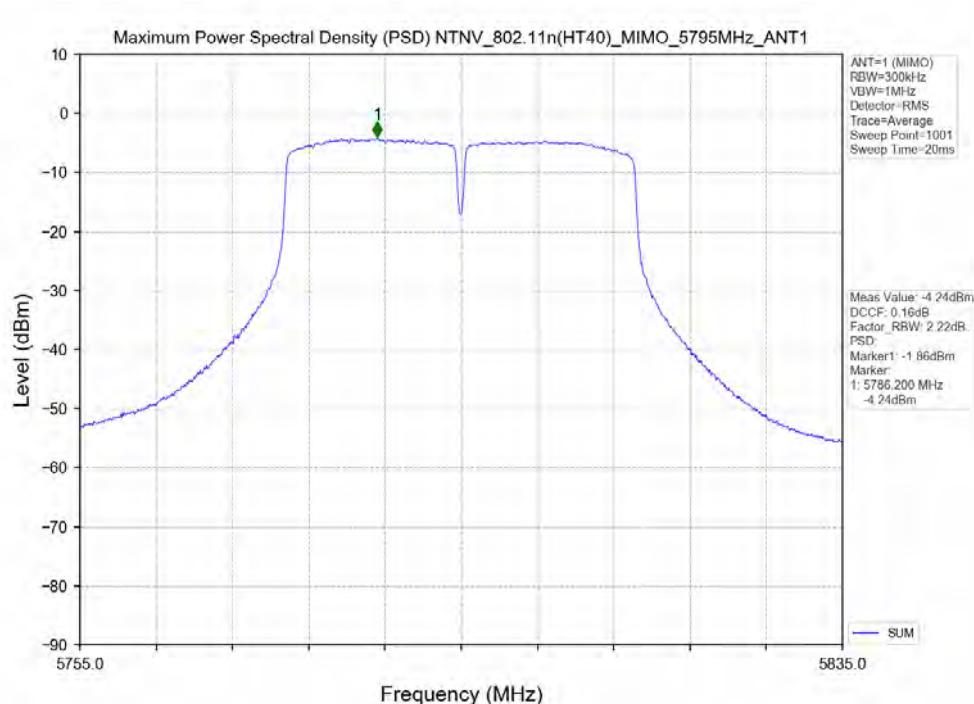
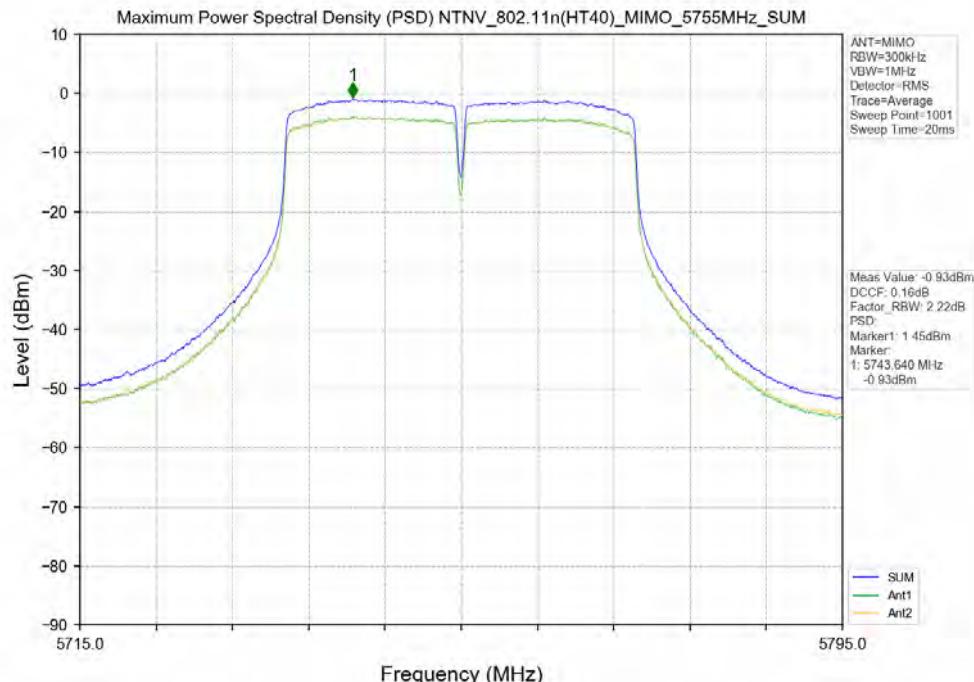
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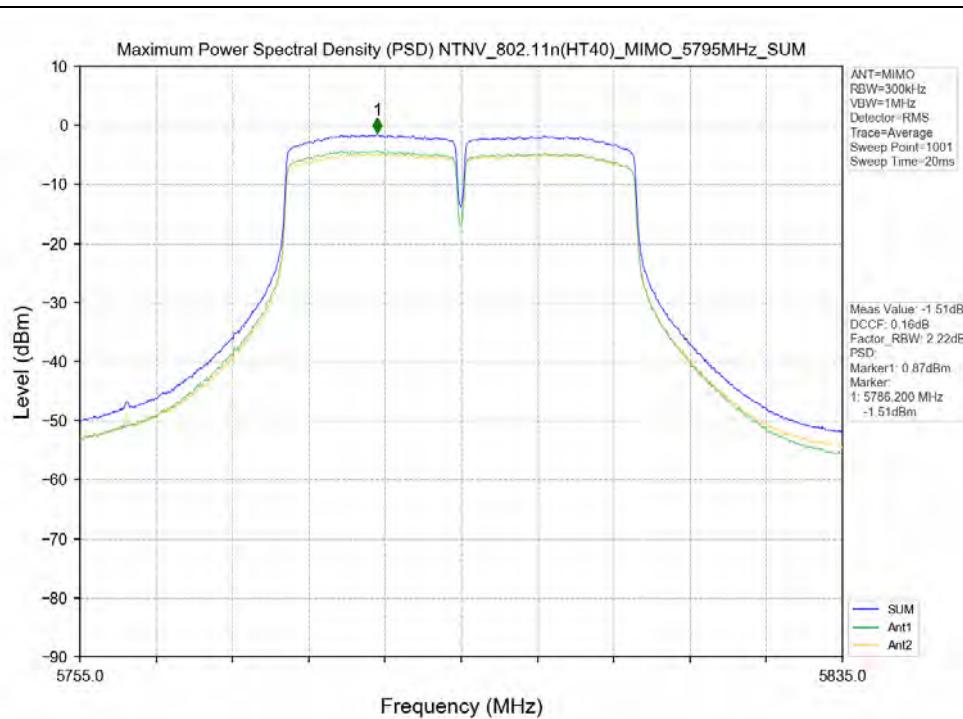
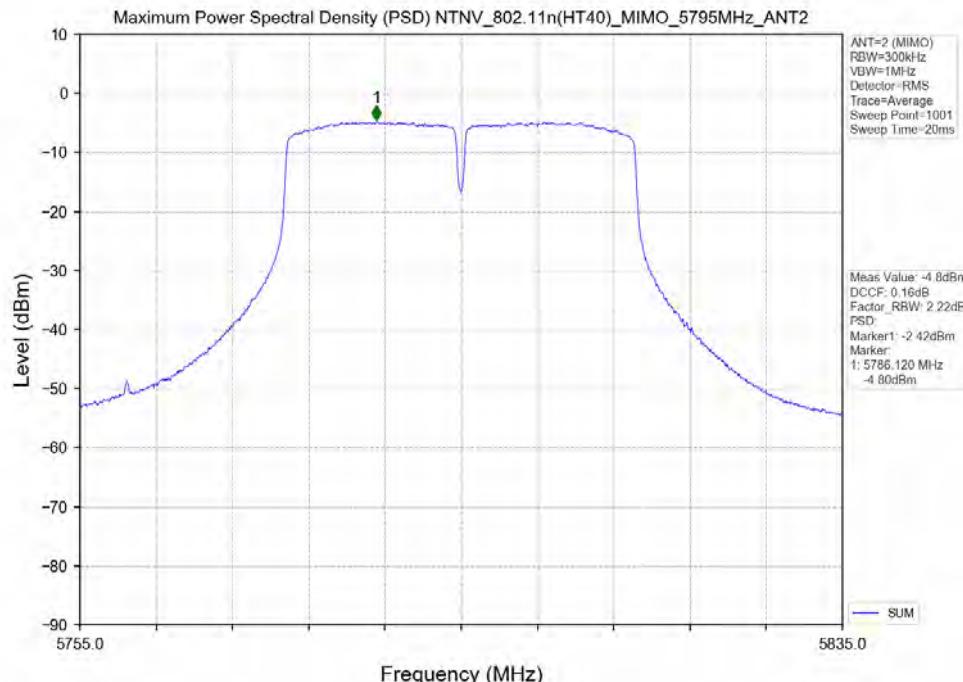
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**5. Frequency Stability****5.1 Test Result**

Test Condition	Test Mode	Test Frequency [MHz]	Ant	Result [ppm]	Limit [ppm]	Verdict
NTNV	802.11a	5180	1	-7.72	<=20	PASS
		5200	1	-11.54	<=20	PASS
		5240	1	-11.45	<=20	PASS
		5745	1	-10.44	<=20	PASS
		5785	1	-10.37	<=20	PASS
		5825	1	-10.3	<=20	PASS
	802.11n	5190	MIMO	0	<=20	PASS
		5230	MIMO	0	<=20	PASS
		5755	MIMO	-6.95	<=20	PASS
		5795	MIMO	-13.81	<=20	PASS

**- End of the Report -**

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