

Report No.: SZEM200500394503  
Page: 1 of 398

## **TEST REPORT**

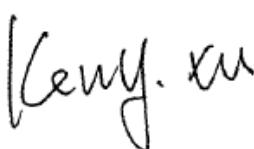
**Application No.:** SZEM2005003945CR  
**Applicant:** DASAN Zhone Solutions, Inc.  
**Address of Applicant:** 1350 South Loop Rd., Suite 130 Alameda, CA 94502 USA  
**Manufacturer:** DASAN Zhone Solutions, Inc.  
**Address of Manufacturer:** 1350 South Loop Rd., Suite 130 Alameda, CA 94502 USA  
**Factory:** Aztech Communication Device (DG) Ltd  
**Address of Factory:** Jiu Jiang Shui Village, Chang Ping Town, Dong Guan City, Guang Dong Province, China

**Equipment Under Test (EUT):**

**EUT Name:** MESH-2100-MoCA-NA  
**Model No.:** MESH-2100-MoCA-NA  
**Trade Mark:** DZS  
**FCC ID:** PJZMESH2100-MOCA  
**Standard(s) :** 47 CFR Part 15, Subpart E 15.407  
**Date of Receipt:** 2020-05-19  
**Date of Test:** 2020-05-20 to 2020-06-04  
**Date of Issue:** 2020-06-09

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



Keny. Xu  
EMC Laboratory Manager



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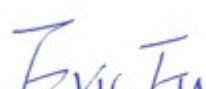
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<b>Revision Record</b>				
<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
01		2020-06-09		Original

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

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## 2 Test Summary

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

N/A: Not applicable

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)	Pass
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

N/A: Not applicable

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## 4 General Information

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

Power Supply:	AC/DC Adapter Model: HS1201500U Input: AC 100-240V, 50/60Hz, 0.8A Max Output: DC 12V, 1.5A, 18.0W			
Test Voltage:	AC 120V, 60Hz			
Cable:	DC cable: 140cm unshielded			
Internal Source:	More than 108MHz			
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band I	802.11a/n(HT20)/ac(HT20)	5180-5240	4
		802.11n(HT40)/ac(HT40)	5190-5230	2
		802.11ac(HT80)	5210	1
	UNII Band III	802.11a/n(HT20)/ac(HT20)	5745-5825	5
		802.11n(HT40)/ac(HT40)	5755-5795	2
		802.11ac(HT80)	5775	1
Modulation Type:	802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)			
Sample Type:	Fixed production			
Antenna Type:	Integrated PCB antennas			
Antenna Gain:	Antenna1: 4.02dBi, Antenna2: 4.77dBi, Antenna3: 5.19dBi, Antenna4: 4.98dBi Note: MIMO for 802.11n/ac			

### 4.2 Description of Support Units

The EUT has been tested as an independent unit.

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### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	Conduction emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
5	RF conducted power	$\pm 0.75\text{dB}$
6	RF power density	$\pm 2.84\text{dB}$
7	Conducted Spurious emissions	$\pm 0.75\text{dB}$
8	RF Radiated power	$\pm 4.5\text{dB}$ (Below 1GHz) $\pm 4.8\text{dB}$ (Above 1GHz)
9	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (Below 1GHz) $\pm 4.8\text{dB}$ (Above 1GHz)
10	Temperature test	$\pm 1^\circ\text{C}$
11	Humidity test	$\pm 3\%$
12	Supply voltages	$\pm 1.5\%$
13	Time	$\pm 3\%$



#### 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.

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No tests were sub-contracted.

#### 4.5 Test Facility

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

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

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

- **VCCI**

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

- **FCC –Designation Number: CN1178**

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

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

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

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

CAB identifier: CN0006.

IC#: 4620C.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None

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## 5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2019-07-11	2020-07-10
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
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020-03-24	2021-03-23

RF Conducted Test					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27
Power Sensor	KEYSIGHT	U2021XA	SEM009-13	2020-03-23	2021-03-22

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-15	2019-12-16	2020-12-15
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
Pre-amplifier (0.1-1300MHz)	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	2019-07-11	2020-07-10



**Radiated Spurious Emissions**

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

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

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21



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## 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 a antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the Antenna1 is 4.02dBi, Antenna2 is 4.77dBi, Antenna3 is 5.19dBi, Antenna4 is 4.98dBi.

Antenna location: Refer to Internal photos.

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## 6.2 Transmission in the Absence of Data

### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

### 6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details:

WIFI chip (QT2518B) support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.

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## 7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)

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

Limit:

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

\*Decreases with the logarithm of the frequency.

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

Operating Environment:

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

Pretest these modes to find the worst case: c:TX mode (Band 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 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d:TX mode (Band 3)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

The worst case for final test: c:TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

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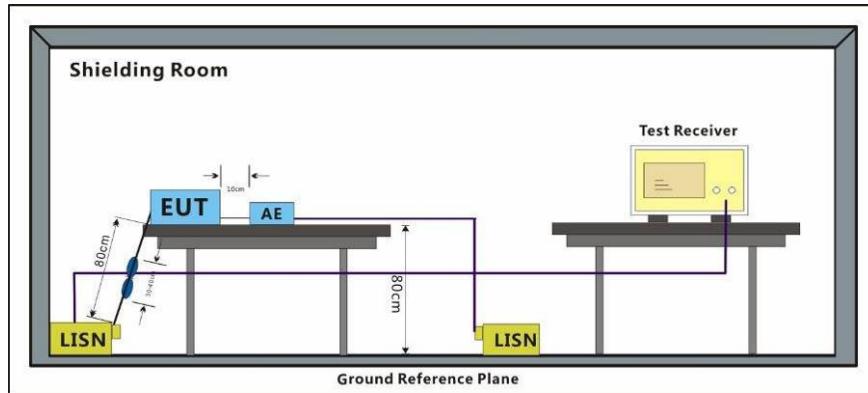
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### 7.1.2 Test Setup Diagram



### 7.1.3 Measurement Procedure and Data

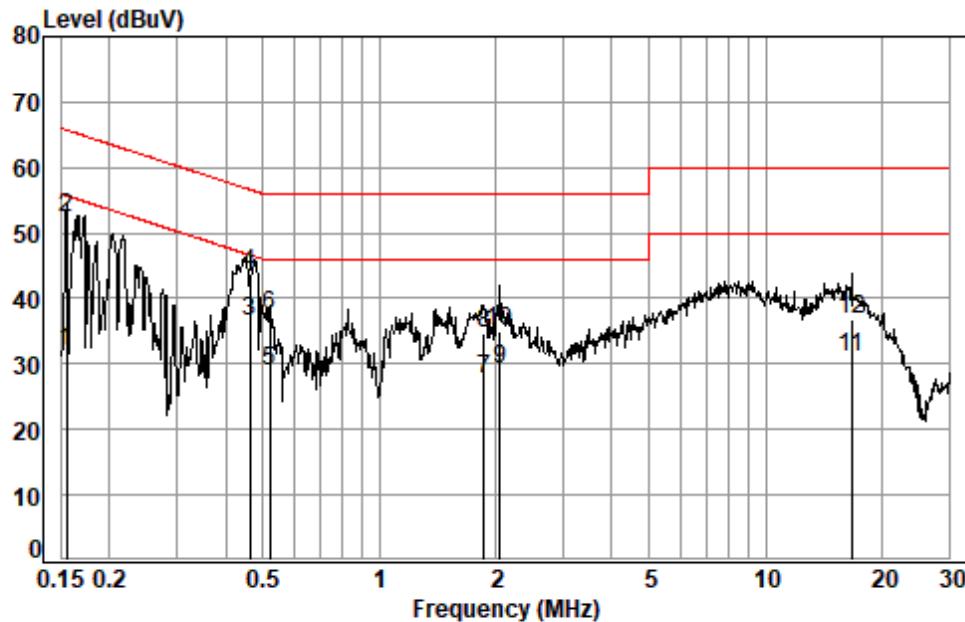
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 50hm linear impedance. The power cables of all other units of the EUT were connected to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



Site : Shielding Room  
Condition: Line  
Job No. : 03945CR  
Test mode: c

Freq	Cable	LISN	Read	Limit	Over	Remark		
	MHz	Loss	Factor	Level	Level	Line	Limit	
1	0.1548	0.01	9.68	22.29	31.98	55.74	-23.76	Average
2	0.1548	0.01	9.68	42.57	52.26	65.74	-13.48	QP
3	0.4612	0.06	9.69	26.63	36.38	46.67	-10.29	Average
4	0.4612	0.06	9.69	34.16	43.91	56.67	-12.76	QP
5	0.5210	0.06	9.69	19.00	28.75	46.00	-17.25	Average
6	0.5210	0.06	9.69	27.74	37.49	56.00	-18.51	QP
7	1.8680	0.15	9.74	17.90	27.79	46.00	-18.21	Average
8	1.8680	0.15	9.74	24.73	34.62	56.00	-21.38	QP
9	2.0549	0.16	9.75	19.15	29.06	46.00	-16.94	Average
10	2.0549	0.16	9.75	24.95	34.86	56.00	-21.14	QP
11	16.6612	0.22	10.69	20.25	31.16	50.00	-18.84	Average
12	16.6612	0.22	10.69	25.80	36.71	60.00	-23.29	QP

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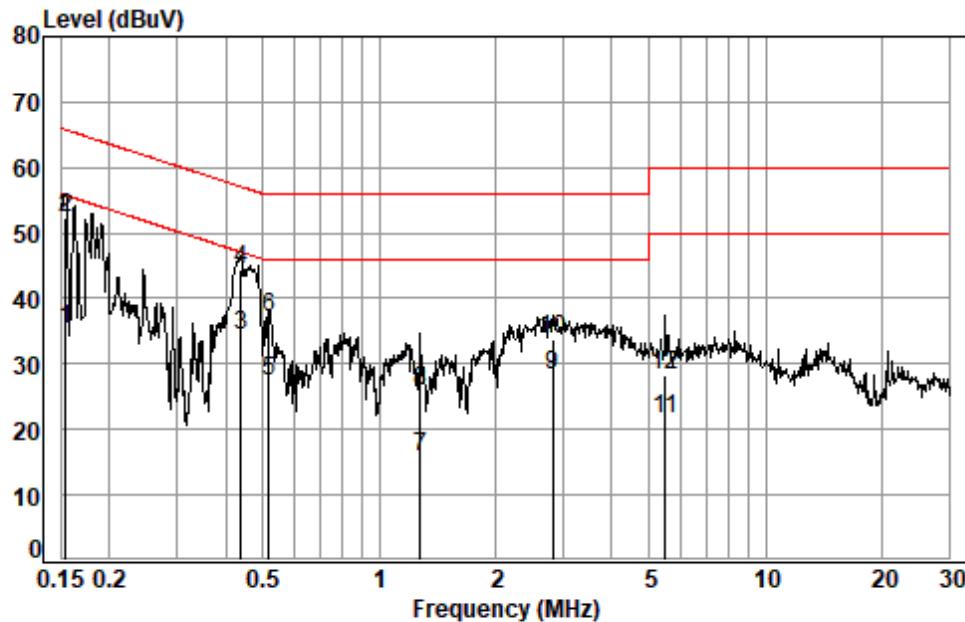
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Mode:c; Line:Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 03945CR  
Test mode: c

Freq	Cable	LISN	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	
1	0.1540	0.01	9.67	25.72	35.40	55.78 -20.38 Average
2	0.1540	0.01	9.67	42.69	52.37	65.78 -13.41 QP
3	0.4374	0.05	9.67	24.79	34.51	47.11 -12.60 Average
4	0.4374	0.05	9.67	34.70	44.42	57.11 -12.69 QP
5	0.5182	0.06	9.67	17.54	27.27	46.00 -18.73 Average
6	0.5182	0.06	9.67	27.32	37.05	56.00 -18.95 QP
7	1.2756	0.11	9.70	5.99	15.80	46.00 -30.20 Average
8	1.2756	0.11	9.70	16.08	25.89	56.00 -30.11 QP
9	2.8091	0.16	9.76	18.45	28.37	46.00 -17.63 Average
10	2.8091	0.16	9.76	23.85	33.77	56.00 -22.23 QP
11	5.5054	0.17	9.88	11.65	21.70	50.00 -28.30 Average
12	5.5054	0.17	9.88	18.32	28.37	60.00 -31.63 QP

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## 7.2 99% Bandwidth

Test Requirement N/A

Test Method: KDB 789033 II D

### 7.2.1 E.U.T. Operation

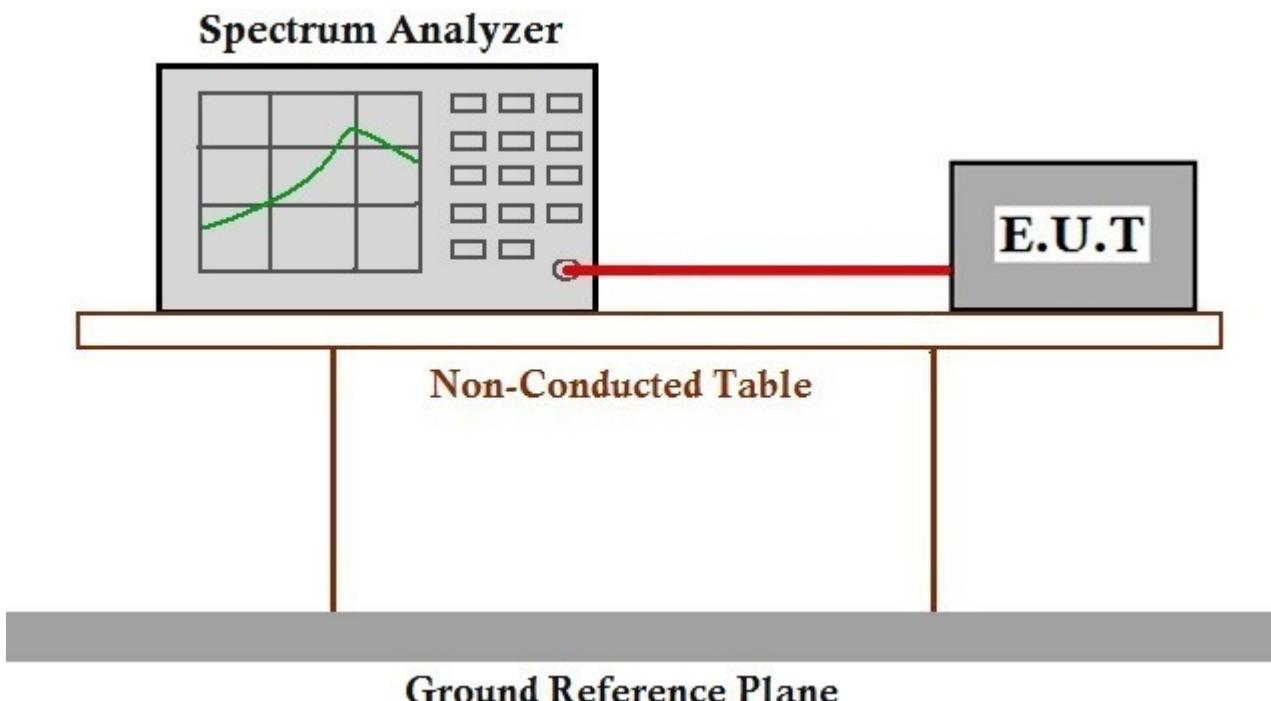
Operating Environment:

Temperature: 28.5 °C Humidity: 44.6 % RH Atmospheric Pressure: 1010 mbar

Test mode: c:TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d:TX mode (Band 3)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

### 7.2.2 Test Setup Diagram



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**7.2.3 Measurement Procedure and Data**

The detailed test data see: Appendix 15.407



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### 7.3 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

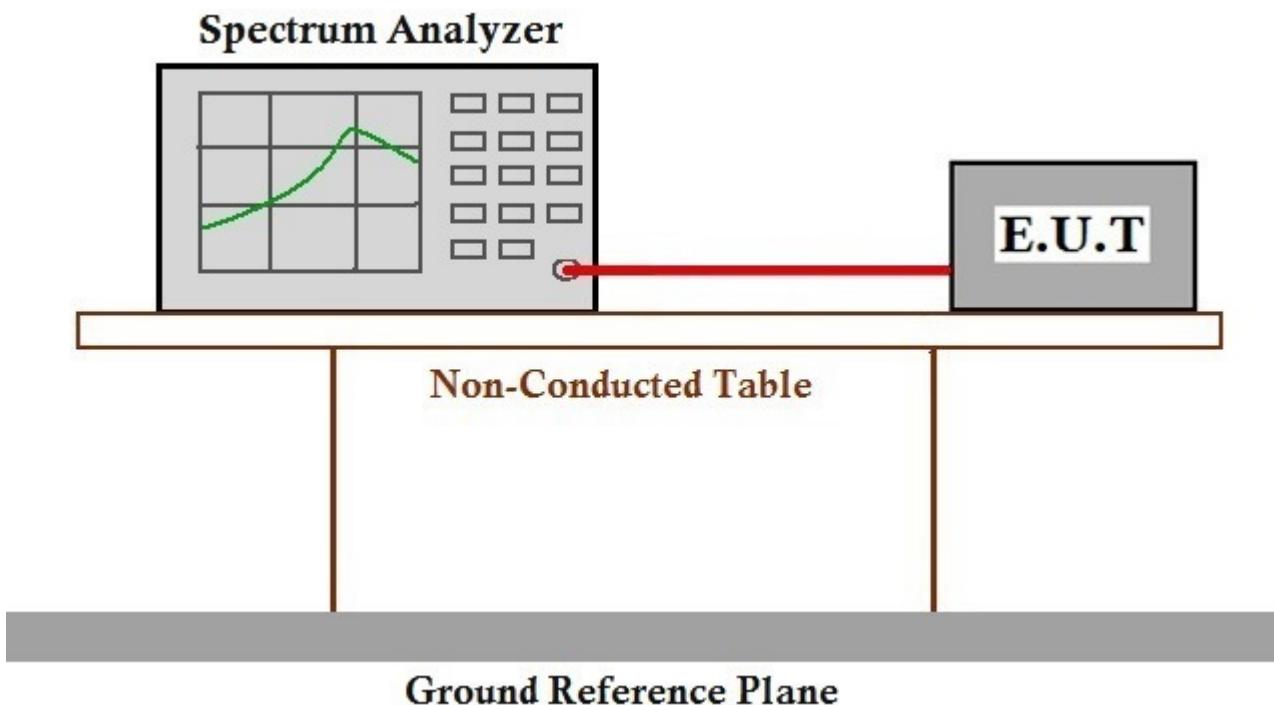
#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 28.5 °C Humidity: 44.4 % RH Atmospheric Pressure: 1010 mbar

Test mode: d:TX mode (Band 3)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

#### 7.3.2 Test Setup Diagram



#### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407

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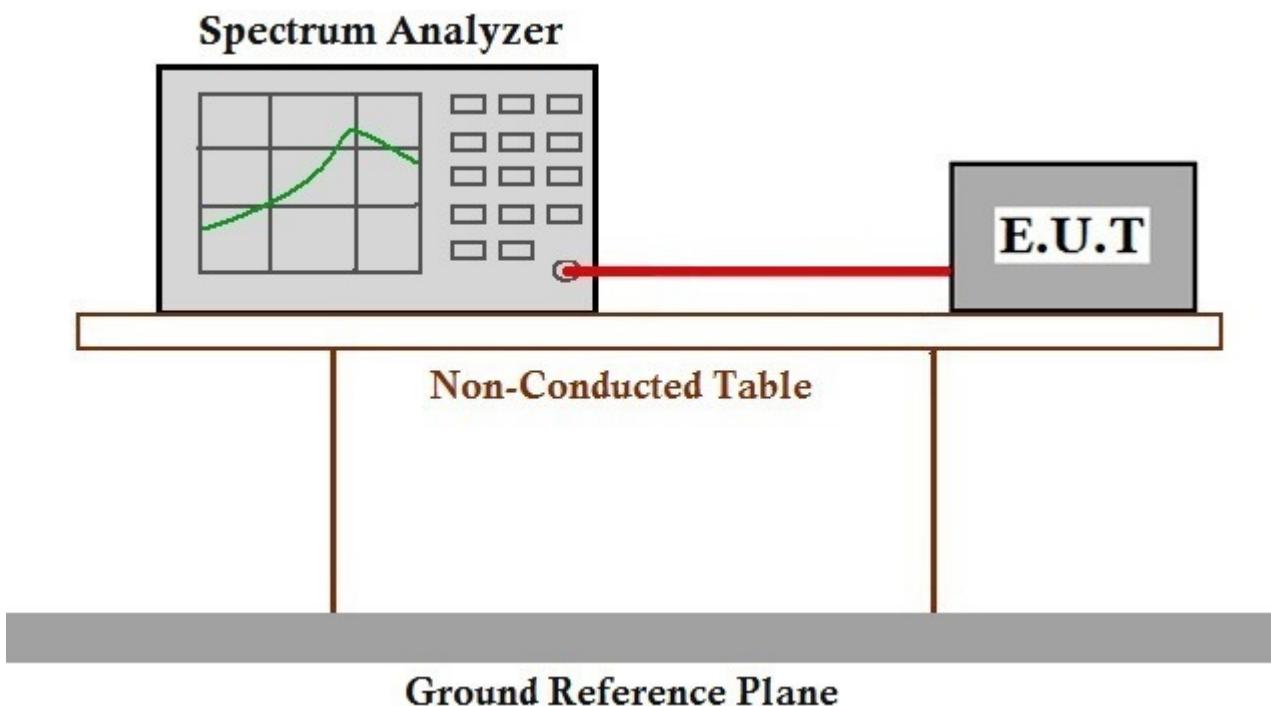
**7.4 Minimum 6 dB bandwidth (5.725-5.85 GHz band)**

Test Requirement 47 CFR Part 15, Subpart C 15.407 (e)  
Test Method: KDB 789033 D02 II C 2  
Limit:  $\geq 500$  kHz

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

Operating Environment:

Temperature: 28.5 °C Humidity: 44.4 % RH Atmospheric Pressure: 1010 mbar  
Test mode: d:TX mode (Band 3)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

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

The detailed test data see: Appendix 15.407



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## 7.5 Maximum Conducted output power

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

Test Method: KDB 789033 D02 II E

Limit:

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

### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 28.6 °C Humidity: 44.5 % RH Atmospheric Pressure: 1010 mbar

Test mode: c:TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d:TX mode (Band 3)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



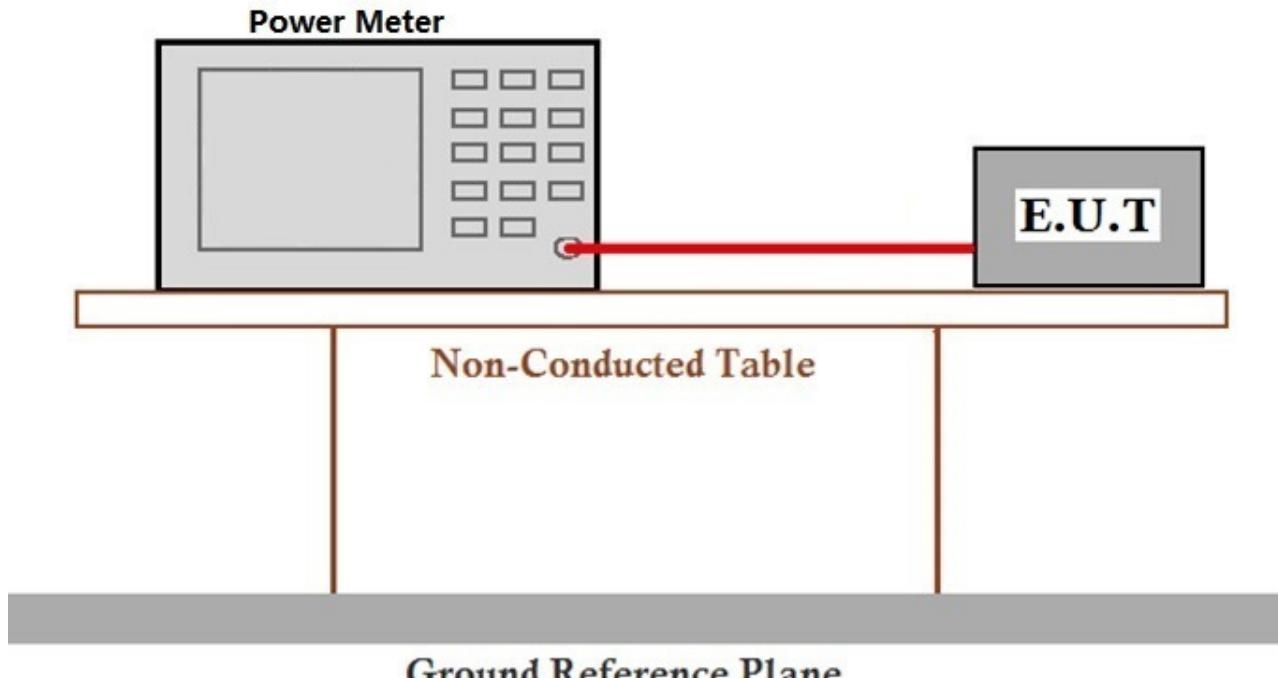
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**7.5.2 Test Setup Diagram****7.5.3 Measurement Procedure and Data**

The detailed test data see: Appendix 15.407

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## 7.6 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

Limit:

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

### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 28.5 °C Humidity: 44.5 % RH Atmospheric Pressure: 1010 mbar

Test mode: c:TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

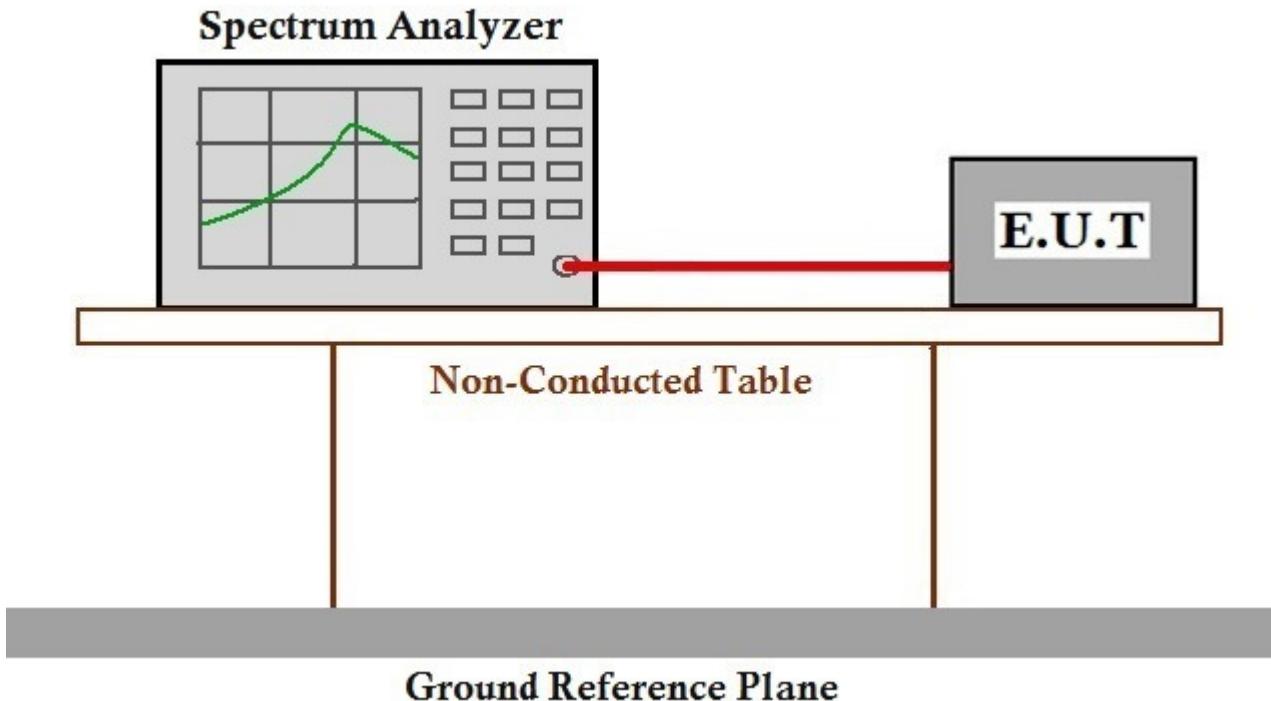
d:TX mode (Band 3)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

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

The detailed test data see: Appendix 15.407

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## 7.7 Radiated Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.209 & 15.407(b)
Test Method:	KDB 789033 D02 II G
Measurement Distance:	3m
Limit:	
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 (68.2dBuV/m).
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 (68.2dBuV/m).
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 (68.2dBuV/m).
For transmitters operating in the 5.725-5.85 GHz band:	(i) All emissions shall be limited to a level of -27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) 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 (110.8dBuV/m) 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 (122.2dBuV/m) at the band edge.

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

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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### 7.7.1 E.U.T. Operation

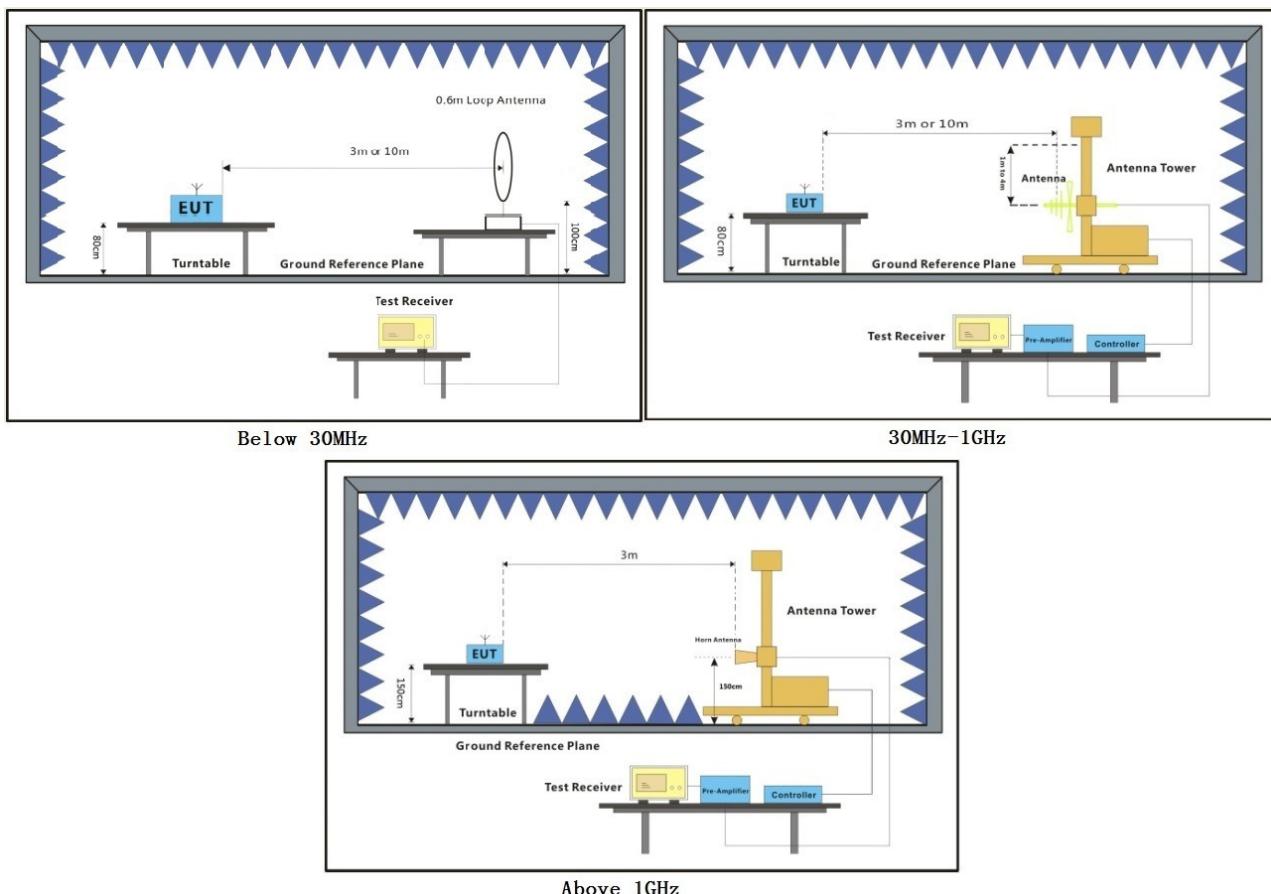
## Operating Environment:

Temperature: 24 °C      Humidity: 64.8 % RH      Atmospheric Pressure: 1010 mbar

Test mode: c:TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d:TX mode (Band 3)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

## 7.7.2 Test Setup Diagram



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**7.7.3 Measurement Procedure and Data**

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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
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.
5. Pretest the EUT at antenna 1, antenna 2, antenna 3 and antenna 4, found the antenna 3 which is worst case for 802.11a mode, Pretest the EUT at antenna 1, antenna 2, antenna 3, antenna 4 and MIMO mode, found the MIMO mode which is worst case for 802.11n/ac mode; So, Only the worst test data is recorded in the report.



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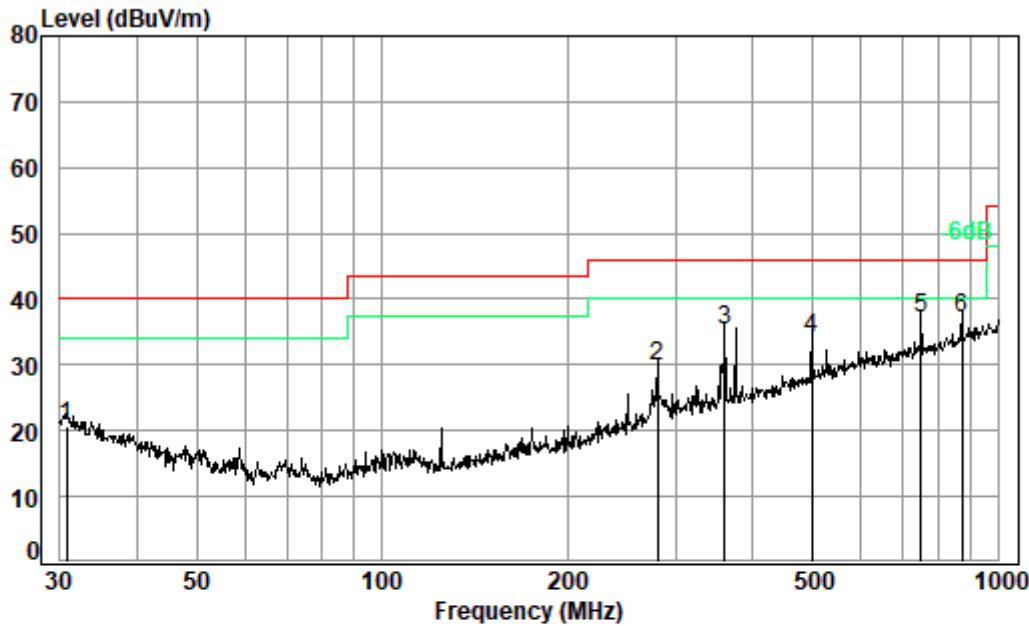
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Mode:c; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 03945CR

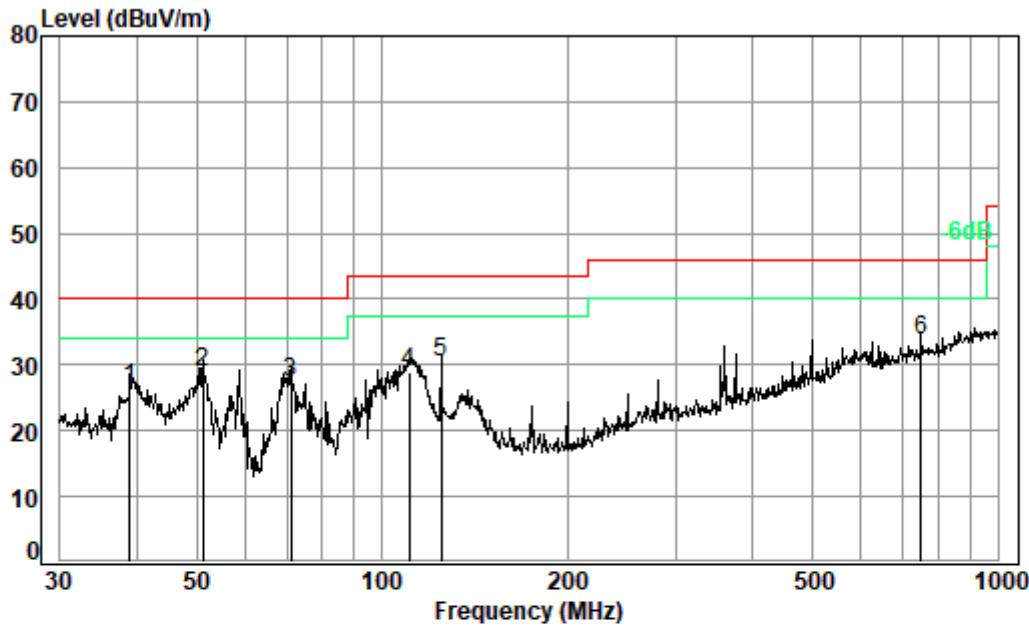
Test Mode: c

Freq	Cable	Ant	Preamp	Read	Limit	Over	Limit	Remark
	Freq	Loss	Factor	Level				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.75	0.60	22.07	27.73	25.84	20.78	40.00	-19.22 QP
2	280.02	1.81	18.80	26.92	36.22	29.91	46.00	-16.09 QP
3	360.45	2.09	21.39	27.20	39.07	35.35	46.00	-10.65 QP
4	499.42	2.60	24.59	27.80	34.75	34.14	46.00	-11.86 QP
5	750.11	3.06	28.21	27.82	33.76	37.21	46.00	-8.79 QP
6 pp	875.25	3.51	29.49	27.30	31.52	37.22	46.00	-8.78 QP

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Mode:c; Polarization:Vertical



Condition: 3m VERTICAL

Job No. : 03945CR

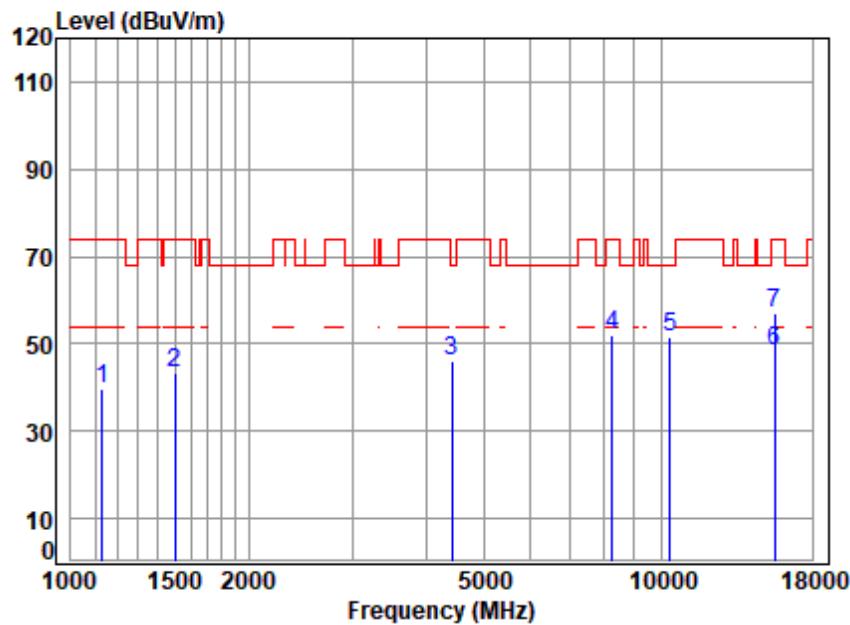
Test Mode: c

Freq	Cable	Ant	Preamp	Read	Limit	Over	Limit	Remark
	Freq	Loss	Factor	Level				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	39.02	0.60	17.93	27.71	35.64	26.46	40.00	-13.54 QP
2 pp	51.12	0.80	14.08	27.68	41.55	28.75	40.00	-11.25 QP
3	71.08	0.83	12.71	27.65	41.48	27.37	40.00	-12.63 QP
4	110.57	1.23	13.50	27.54	41.82	29.01	43.50	-14.49 QP
5	125.01	1.26	13.26	27.46	43.35	30.41	43.50	-13.09 QP
6	750.11	3.06	28.21	27.82	30.36	33.81	46.00	-12.19 QP

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Mode:c; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5180 TX SE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dBuV	dBuV/m	dBuV/m	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1129.072	2.32	24.26	40.22	53.16	39.52	74.00	-34.48	peak
2 1498.781	2.98	25.80	40.51	54.92	43.19	74.00	-30.81	peak
3 4417.841	6.63	33.46	42.49	48.63	46.23	68.20	-21.97	peak
4 8271.880	8.23	36.87	40.72	47.79	52.17	74.00	-21.83	peak
5 10360.000	9.62	37.76	38.17	42.57	51.78	68.20	-16.42	peak
6 15540.000	12.08	40.72	40.58	36.02	48.24	54.00	-5.76	Average
7 15540.000	12.08	40.72	40.58	45.02	57.24	74.00	-16.76	peak

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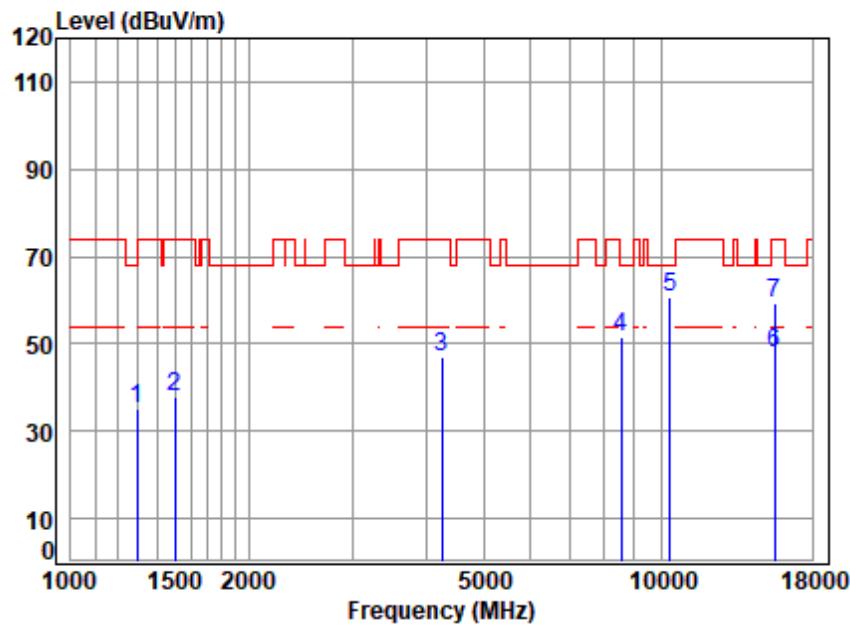
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Mode:c; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5180 TX SE  
Note : 5G WIFI 11A

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Over Remark
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	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1293.359	2.88	25.00	40.36	47.56	35.08	68.20	-33.12 peak
2	1498.781	2.98	25.80	40.51	49.60	37.87	74.00	-36.13 peak
3	4254.921	6.22	33.17	42.36	49.97	47.00	74.00	-27.00 peak
4	8563.818	8.81	37.03	40.22	46.14	51.76	68.20	-16.44 peak
5	10360.000	9.62	37.76	38.17	51.56	60.77	68.20	-7.43 peak
6	15540.000	12.08	40.72	40.58	35.89	48.11	54.00	-5.89 Average
7	15540.000	12.08	40.72	40.58	46.88	59.10	74.00	-14.90 peak

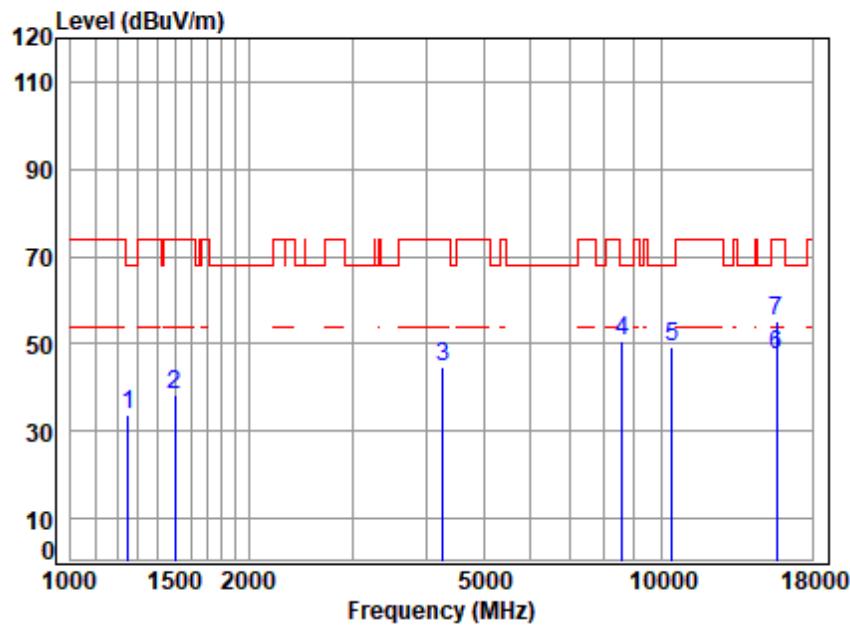
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Mode:c; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5220 TX SE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1249.269	2.77	24.81	40.32	46.71	33.97	68.20	-34.23	peak
2 1498.781	2.98	25.80	40.51	50.18	38.45	74.00	-35.55	peak
3 4267.237	6.24	33.19	42.37	47.59	44.65	74.00	-29.35	peak
4 8588.607	8.88	37.04	40.18	44.83	50.57	68.20	-17.63	peak
5 10440.000	9.49	37.72	38.21	40.31	49.31	68.20	-18.89	peak
6 15660.000	11.70	40.80	40.58	35.55	47.47	54.00	-6.53	Average
7 15660.000	11.70	40.80	40.58	43.29	55.21	74.00	-18.79	peak

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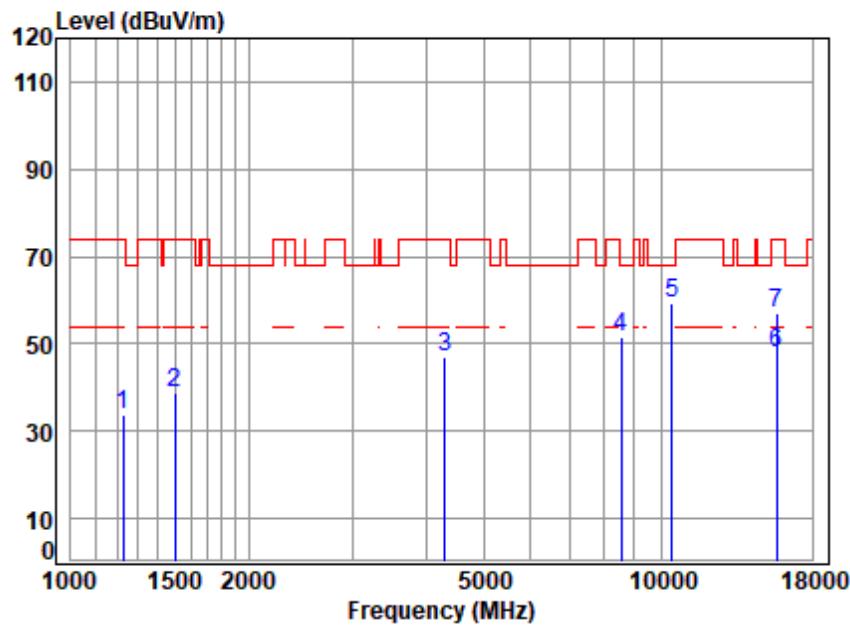
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Mode:c; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5220 TX SE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1227.791	2.71	24.71	40.31	46.64	33.75	74.00	-40.25	peak
2 1498.781	2.98	25.80	40.51	50.66	38.93	74.00	-35.07	peak
3 4304.400	6.32	33.26	42.40	49.63	46.81	74.00	-27.19	peak
4 8539.102	8.73	37.02	40.26	45.95	51.44	68.20	-16.76	peak
5 10440.000	9.49	37.72	38.21	50.54	59.54	68.20	-8.66	peak
6 15660.000	11.70	40.80	40.58	36.03	47.95	54.00	-6.05	Average
7 15660.000	11.70	40.80	40.58	45.09	57.01	74.00	-16.99	peak

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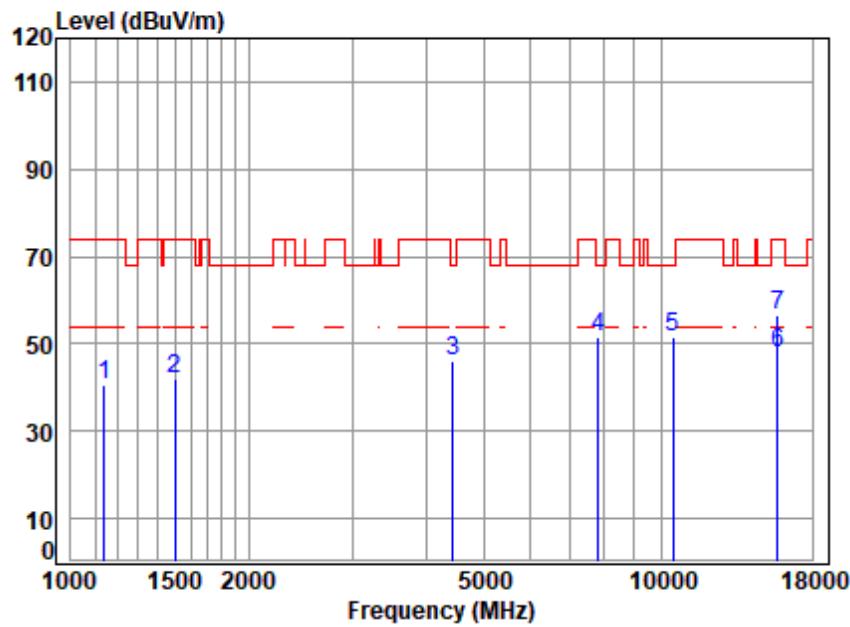
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Mode:c; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5240 TX SE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Limit	Over Limit	Remark
				Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1138.904	2.37	24.31	40.23	54.07	40.52	74.00	-33.48 peak
2	1498.781	2.98	25.80	40.51	53.80	42.07	74.00	-31.93 peak
3	4430.628	6.59	33.48	42.50	48.74	46.31	68.20	-21.89 peak
4	7807.262	8.57	36.55	41.29	47.59	51.42	68.20	-16.78 peak
5	10480.000	9.38	37.71	38.23	42.65	51.51	68.20	-16.69 peak
6	15720.000	11.46	40.83	40.57	36.08	47.80	54.00	-6.20 Average
7	15720.000	11.46	40.83	40.57	45.08	56.80	74.00	-17.20 peak

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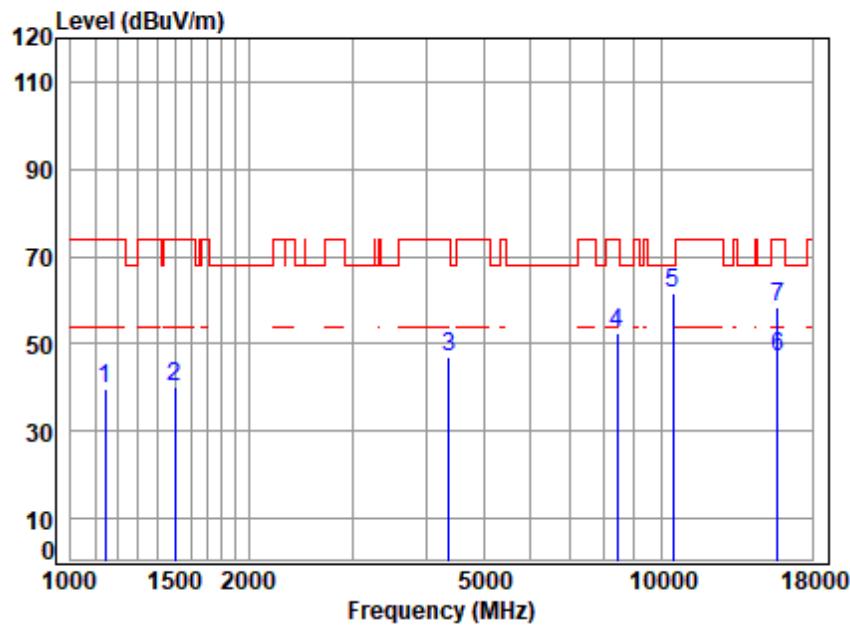
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Mode:c; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5240 TX SE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Over Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1145.507	2.39	24.34	40.24	53.41	39.90	74.00	-34.10	peak
2 1498.781	2.98	25.80	40.51	51.91	40.18	74.00	-33.82	peak
3 4367.058	6.56	33.37	42.45	49.47	46.95	74.00	-27.05	peak
4 8416.584	8.39	36.95	40.47	47.54	52.41	74.00	-21.59	peak
5 10480.000	9.38	37.71	38.23	52.95	61.81	68.20	-6.39	peak
6 15720.000	11.46	40.83	40.57	35.23	46.95	54.00	-7.05	Average
7 15720.000	11.46	40.83	40.57	46.72	58.44	74.00	-15.56	peak

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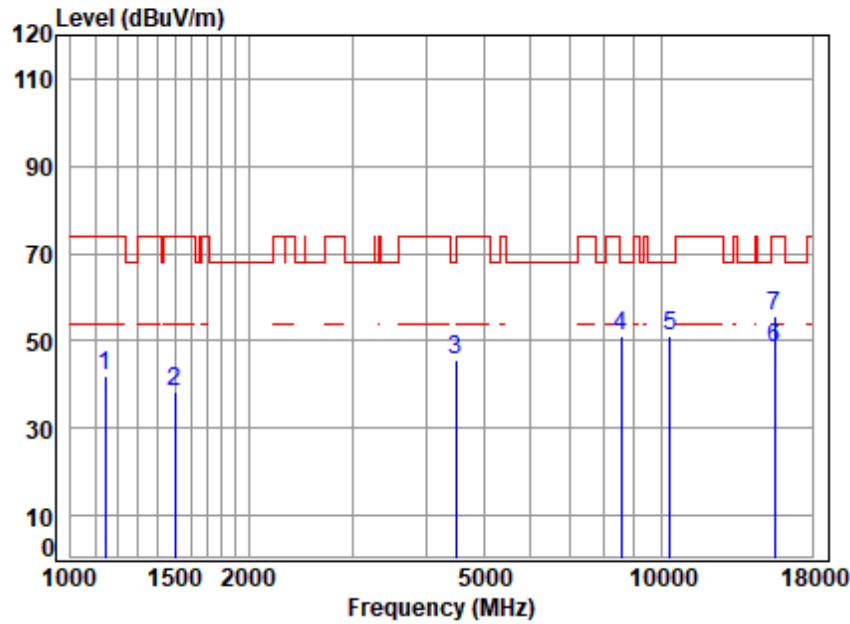
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Mode:c; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5180 TX SE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dBuV	dBuV/m	dBuV/m	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1145.507	2.39	24.34	40.24	55.63	42.12	74.00	-31.88	peak
2 1498.781	2.98	25.80	40.51	49.95	38.22	74.00	-35.78	peak
3 4482.150	6.43	33.57	42.54	48.16	45.62	68.20	-22.58	peak
4 8539.102	8.73	37.02	40.26	45.63	51.12	68.20	-17.08	peak
5 10360.000	9.62	37.76	38.17	41.93	51.14	68.20	-17.06	peak
6 15540.000	12.08	40.72	40.58	36.32	48.54	54.00	-5.46	Average
7 15540.000	12.08	40.72	40.58	43.43	55.65	74.00	-18.35	peak

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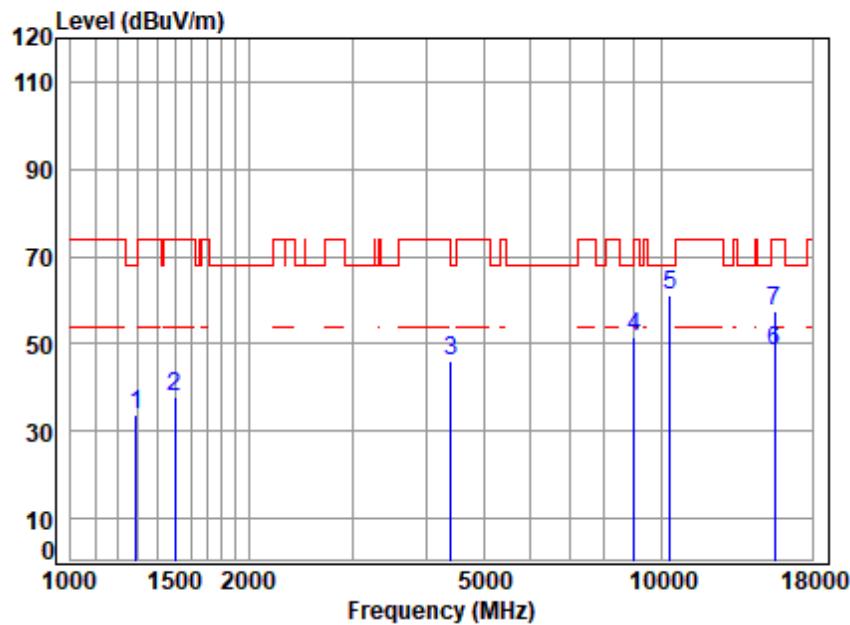
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Mode:c; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5180 TX SE  
Note : 5G WIFI 11N20

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
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	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1289.627	2.87	24.98	40.35	46.35	33.85	68.20	-34.35 peak
2	1498.781	2.98	25.80	40.51	49.58	37.85	74.00	-36.15 peak
3	4405.090	6.67	33.44	42.48	48.58	46.21	68.20	-21.99 peak
4	8995.123	9.03	37.20	39.52	45.07	51.78	68.20	-16.42 peak
5	10360.000	9.62	37.76	38.17	52.14	61.35	68.20	-6.85 peak
6	15540.000	12.08	40.72	40.58	36.18	48.40	54.00	-5.60 Average
7	15540.000	12.08	40.72	40.58	45.08	57.30	74.00	-16.70 peak

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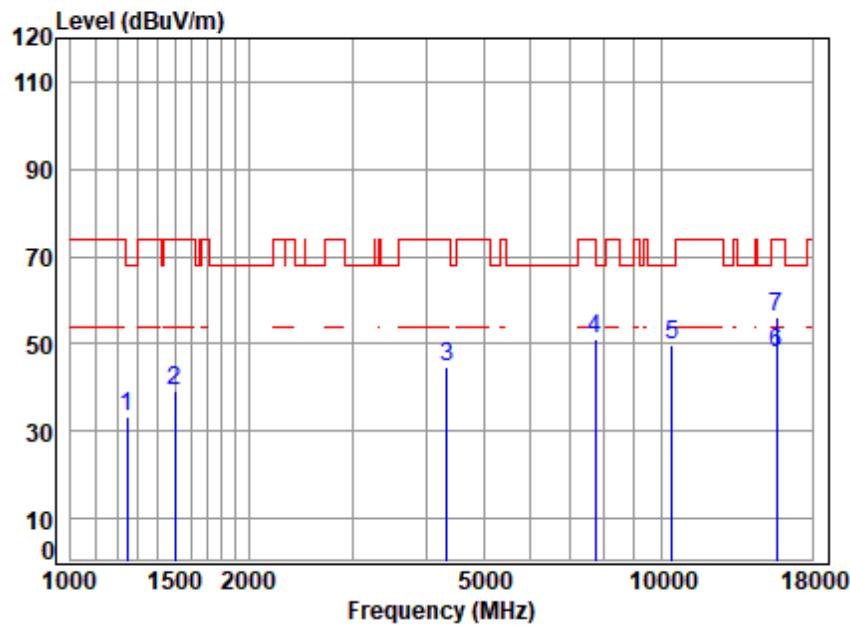
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Mode:c; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5220 TX SE  
Note : 5G WIFI 11N20

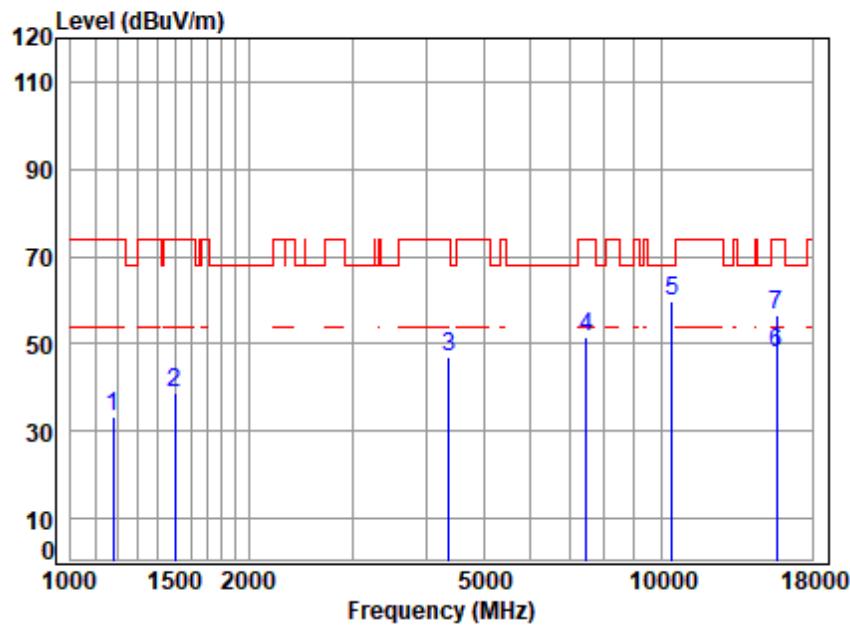
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Limit	Over Limit	Remark
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 1245.663	2.76	24.79	40.32	46.14	33.37	68.20	-34.83	peak
2 1498.781	2.98	25.80	40.51	50.80	39.07	74.00	-34.93	peak
3 4341.886	6.46	33.33	42.43	47.47	44.83	74.00	-29.17	peak
4 7717.518	8.61	36.48	41.33	47.13	50.89	74.00	-23.11	peak
5 10440.000	9.49	37.72	38.21	40.71	49.71	68.20	-18.49	peak
6 15660.000	11.70	40.80	40.58	36.21	48.13	54.00	-5.87	Average
7 15660.000	11.70	40.80	40.58	44.10	56.02	74.00	-17.98	peak

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Mode:c; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5220 TX SE  
Note : 5G WIFI 11N20

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Over Remark
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	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1179.100	2.54	24.49	40.26	46.53	33.30	74.00	-40.70 peak
2	1498.781	2.98	25.80	40.51	50.72	38.99	74.00	-35.01 peak
3	4367.058	6.56	33.37	42.45	49.41	46.89	74.00	-27.11 peak
4	7476.006	8.02	36.28	41.45	48.90	51.75	74.00	-22.25 peak
5	10440.000	9.49	37.72	38.21	50.57	59.57	68.20	-8.63 peak
6	15660.000	11.70	40.80	40.58	36.17	48.09	54.00	-5.91 Average
7	15660.000	11.70	40.80	40.58	44.77	56.69	74.00	-17.31 peak

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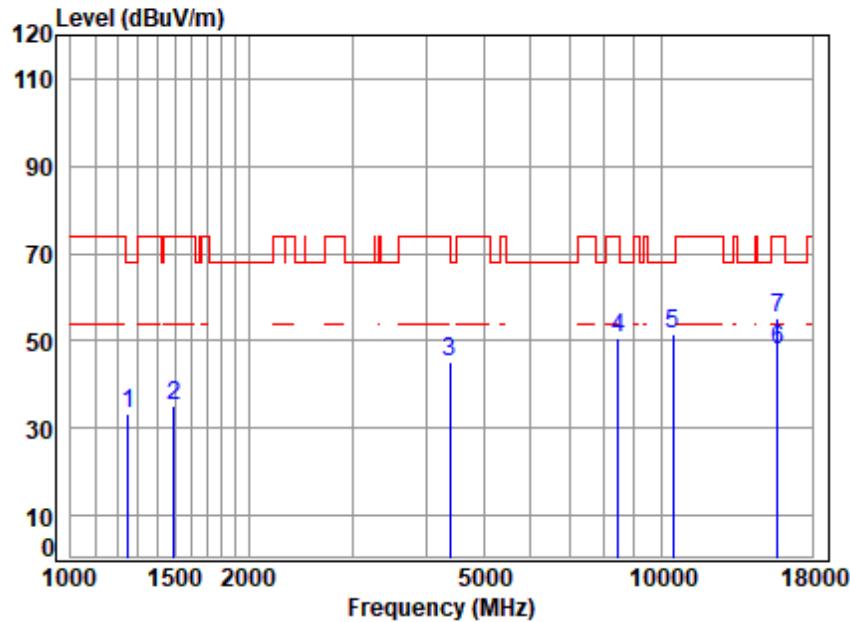
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Mode:c; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5240 TX SE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dBuV	dBuV/m	dBuV/m	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1249.269	2.77	24.81	40.32	46.04	33.30	68.20	-34.90	peak
2 1494.455	2.96	25.78	40.50	46.83	35.07	74.00	-38.93	peak
3 4392.376	6.66	33.42	42.47	47.46	45.07	74.00	-28.93	peak
4 8465.379	8.52	36.98	40.39	45.45	50.56	74.00	-23.44	peak
5 10480.000	9.38	37.71	38.23	42.56	51.42	68.20	-16.78	peak
6 15720.000	11.46	40.83	40.57	36.18	47.90	54.00	-6.10	Average
7 15720.000	11.46	40.83	40.57	43.52	55.24	74.00	-18.76	peak

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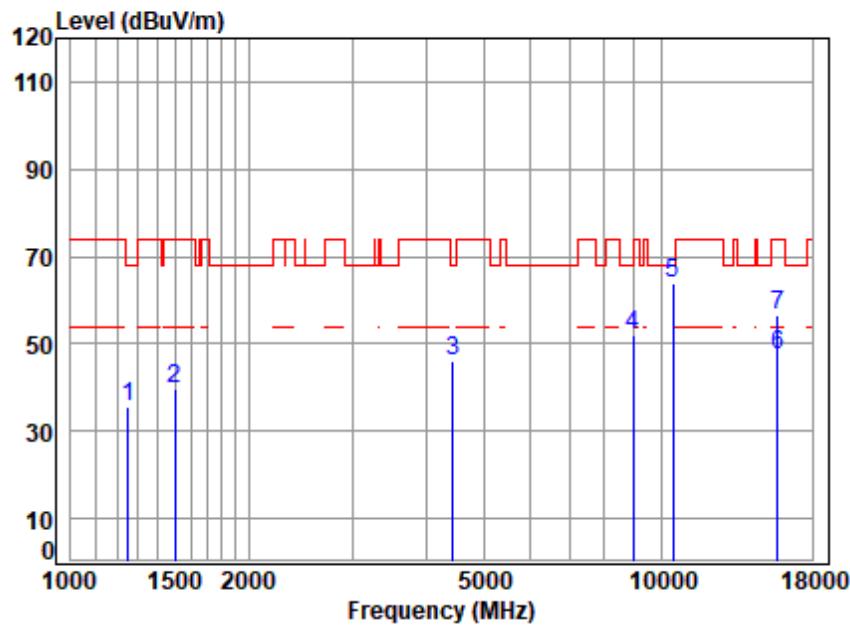
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Mode:c; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5240 TX SE  
Note : 5G WIFI 11N20

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
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	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1249.269	2.77	24.81	40.32	48.23	35.49	68.20	-32.71 peak
2	1498.781	2.98	25.80	40.51	51.53	39.80	74.00	-34.20 peak
3	4443.453	6.55	33.50	42.51	48.32	45.86	68.20	-22.34 peak
4	8969.161	8.84	37.19	39.56	45.34	51.81	68.20	-16.39 peak
5	10480.000	9.38	37.71	38.23	55.01	63.87	68.20	-4.33 peak
6	15720.000	11.46	40.83	40.57	35.95	47.67	54.00	-6.33 Average
7	15720.000	11.46	40.83	40.57	44.85	56.57	74.00	-17.43 peak

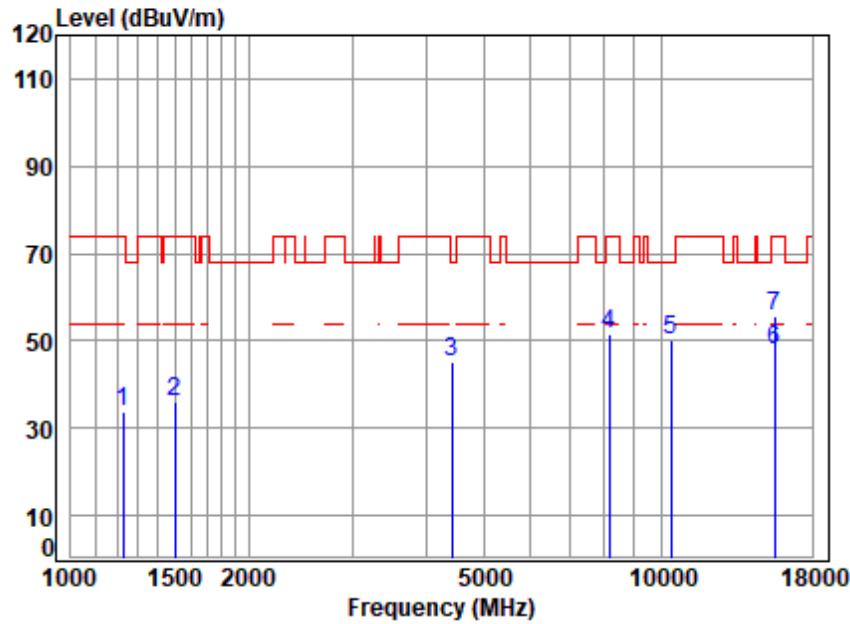
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Mode:c; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5190 TX SE  
Note : 5G WIFI 11N40

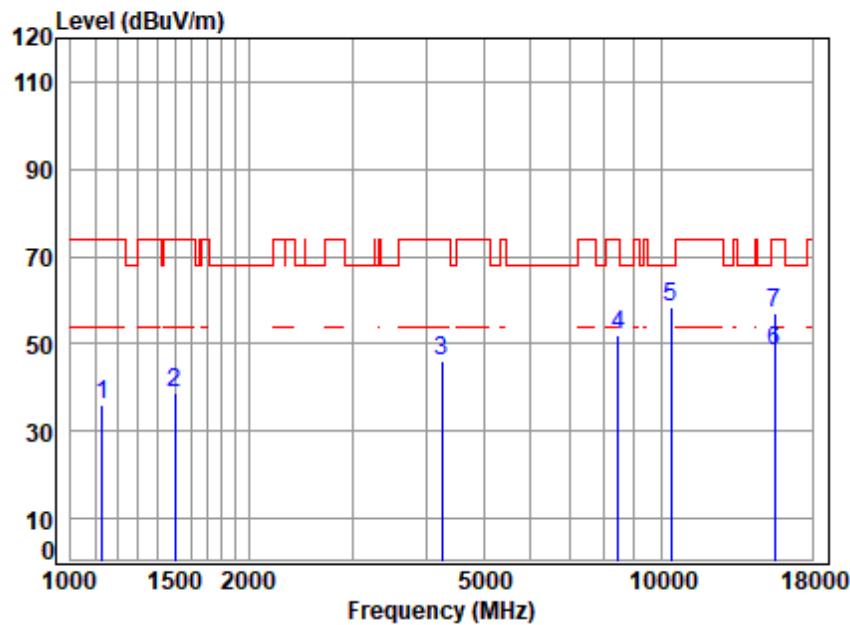
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
				dB	dB/m	dB	dBuV	dBuV/m	dB
1	1227.791	2.71	24.71	40.31	46.69	33.80	74.00	-40.20	peak
2	1498.781	2.98	25.80	40.51	47.88	36.15	74.00	-37.85	peak
3	4417.841	6.63	33.46	42.49	47.47	45.07	68.20	-23.13	peak
4	8176.795	8.37	36.81	40.89	47.17	51.46	74.00	-22.54	peak
5	10380.000	9.61	37.75	38.18	40.84	50.02	68.20	-18.18	peak
6	15570.000	12.06	40.74	40.58	35.87	48.09	54.00	-5.91	Average
7	15570.000	12.06	40.74	40.58	43.50	55.72	74.00	-18.28	peak

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Mode:c; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5190 TX SE  
Note : 5G WIFI 11N40

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Over Remark
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	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1129.072	2.32	24.26	40.22	49.78	36.14	74.00	-37.86 peak
2	1498.781	2.98	25.80	40.51	50.61	38.88	74.00	-35.12 peak
3	4254.921	6.22	33.17	42.36	49.17	46.20	74.00	-27.80 peak
4	8465.379	8.52	36.98	40.39	46.73	51.84	74.00	-22.16 peak
5	10380.000	9.61	37.75	38.18	49.41	58.59	68.20	-9.61 peak
6	15570.000	12.06	40.74	40.58	36.03	48.25	54.00	-5.75 Average
7	15570.000	12.06	40.74	40.58	45.03	57.25	74.00	-16.75 peak

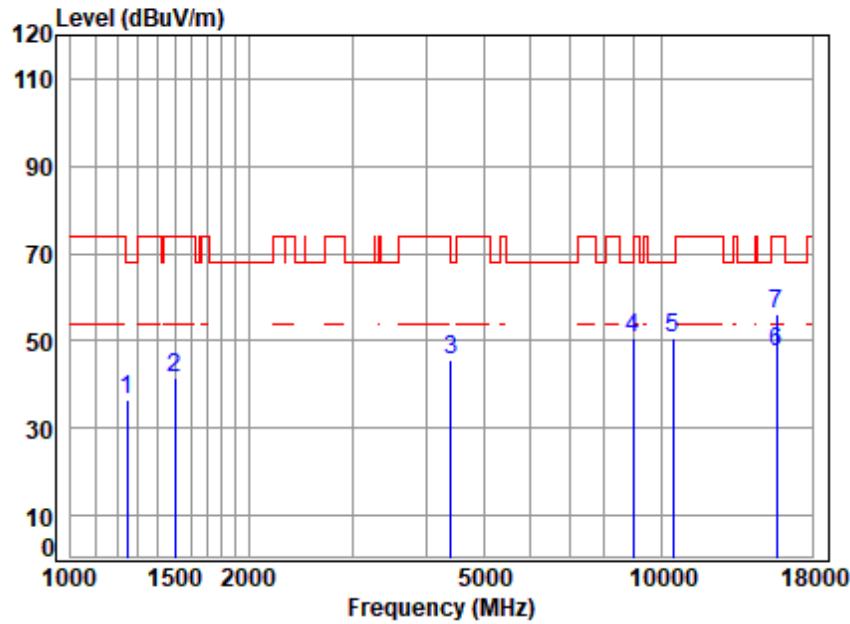
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Mode:c; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:High

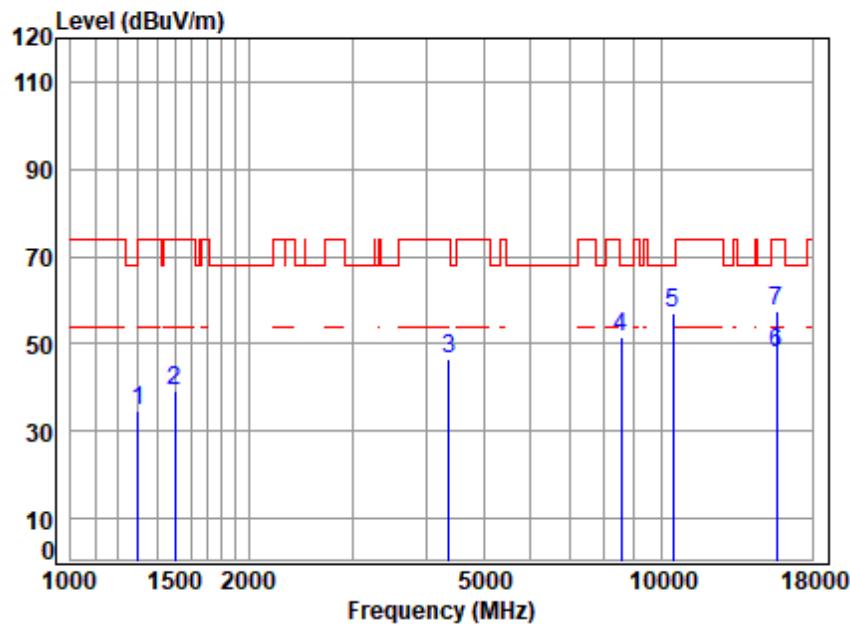


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5230 TX SE  
Note : 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Over Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1245.663	2.76	24.79	40.32	49.27	36.50	68.20	-31.70	peak
2 1498.781	2.98	25.80	40.51	53.46	41.73	74.00	-32.27	peak
3 4405.090	6.67	33.44	42.48	47.90	45.53	68.20	-22.67	peak
4 8943.274	8.65	37.18	39.60	44.29	50.52	68.20	-17.68	peak
5 10460.000	9.43	37.72	38.22	41.85	50.78	68.20	-17.42	peak
6 15690.000	11.52	40.82	40.58	35.79	47.55	54.00	-6.45	Average
7 15690.000	11.52	40.82	40.58	44.59	56.35	74.00	-17.65	peak



Mode:c; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5230 TX SE  
Note : 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dBuV	dBuV/m	dBuV/m	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1300.858	2.90	25.03	40.36	47.30	34.87	74.00	-39.13	peak
2 1498.781	2.98	25.80	40.51	51.17	39.44	74.00	-34.56	peak
3 4367.058	6.56	33.37	42.45	49.17	46.65	74.00	-27.35	peak
4 8539.102	8.73	37.02	40.26	46.24	51.73	68.20	-16.47	peak
5 10460.000	9.43	37.72	38.22	47.99	56.92	68.20	-11.28	peak
6 15690.000	11.52	40.82	40.58	36.31	48.07	54.00	-5.93	Average
7 15690.000	11.52	40.82	40.58	45.64	57.40	74.00	-16.60	peak

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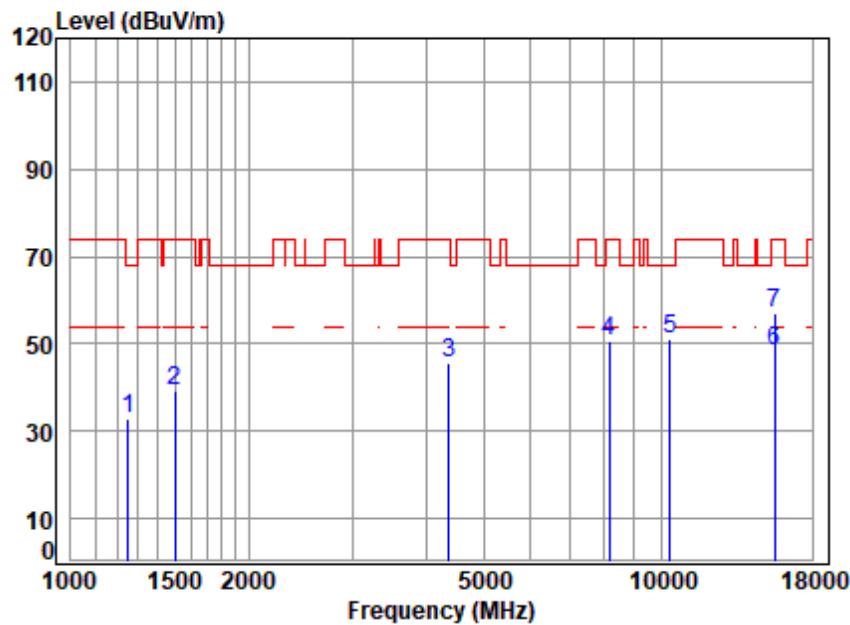
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Mode:c; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5180 TX SE  
Note : 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dBuV	dBuV/m	dBuV/m	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1249.269	2.77	24.81	40.32	45.82	33.08	68.20	-35.12	peak
2 1503.119	2.99	25.81	40.51	51.04	39.33	74.00	-34.67	peak
3 4367.058	6.56	33.37	42.45	47.93	45.41	74.00	-28.59	peak
4 8153.195	8.39	36.79	40.93	46.44	50.69	74.00	-23.31	peak
5 10360.000	9.62	37.76	38.17	42.12	51.33	68.20	-16.87	peak
6 15540.000	12.08	40.72	40.58	36.18	48.40	54.00	-5.60	Average
7 15540.000	12.08	40.72	40.58	44.95	57.17	74.00	-16.83	peak

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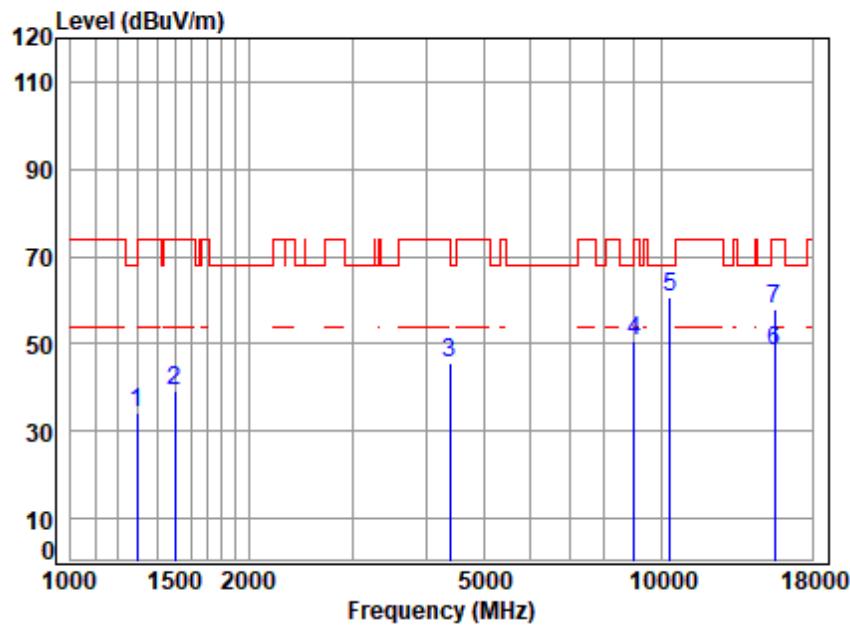
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Mode:c; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5180 TX SE  
Note : 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dBuV	dBuV/m	dBuV/m	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1297.103	2.89	25.01	40.36	46.81	34.35	68.20	-33.85	peak
2 1498.781	2.98	25.80	40.51	51.06	39.33	74.00	-34.67	peak
3 4379.699	6.61	33.39	42.46	48.02	45.56	74.00	-28.44	peak
4 8995.123	9.03	37.20	39.52	44.01	50.72	68.20	-17.48	peak
5 10360.000	9.62	37.76	38.17	51.64	60.85	68.20	-7.35	peak
6 15540.000	12.08	40.72	40.58	36.29	48.51	54.00	-5.49	Average
7 15540.000	12.08	40.72	40.58	45.78	58.00	74.00	-16.00	peak

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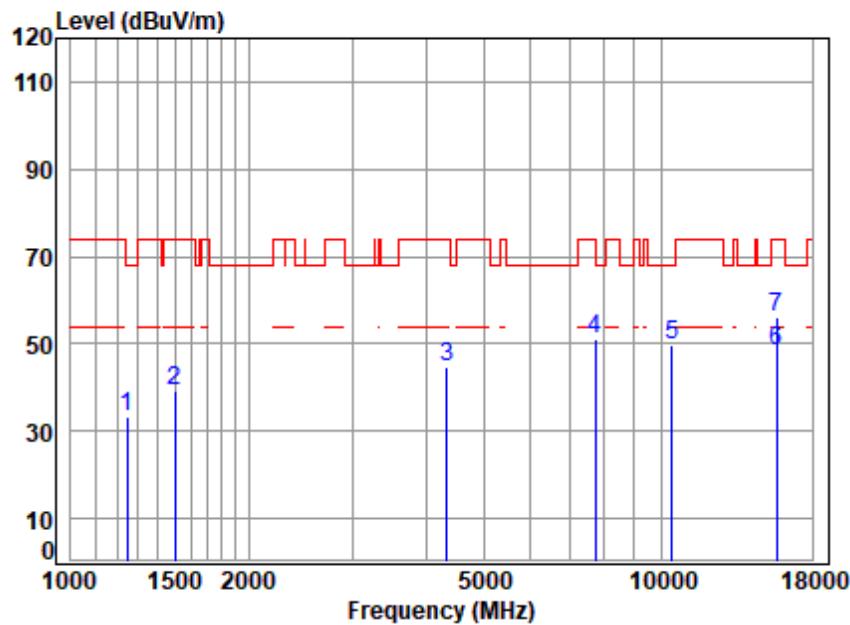
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Mode:c; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5220 TX SE  
Note : 5G WIFI 11AC20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1245.663	2.76	24.79	40.32	46.14	33.37	68.20	-34.83 peak
2 1498.781	2.98	25.80	40.51	50.80	39.07	74.00	-34.93 peak
3 4341.886	6.46	33.33	42.43	47.47	44.83	74.00	-29.17 peak
4 7717.518	8.61	36.48	41.33	47.13	50.89	74.00	-23.11 peak
5 10440.000	9.49	37.72	38.21	40.71	49.71	68.20	-18.49 peak
6 15660.000	11.70	40.80	40.58	36.25	48.17	54.00	-5.83 Average
7 15660.000	11.70	40.80	40.58	44.10	56.02	74.00	-17.98 peak

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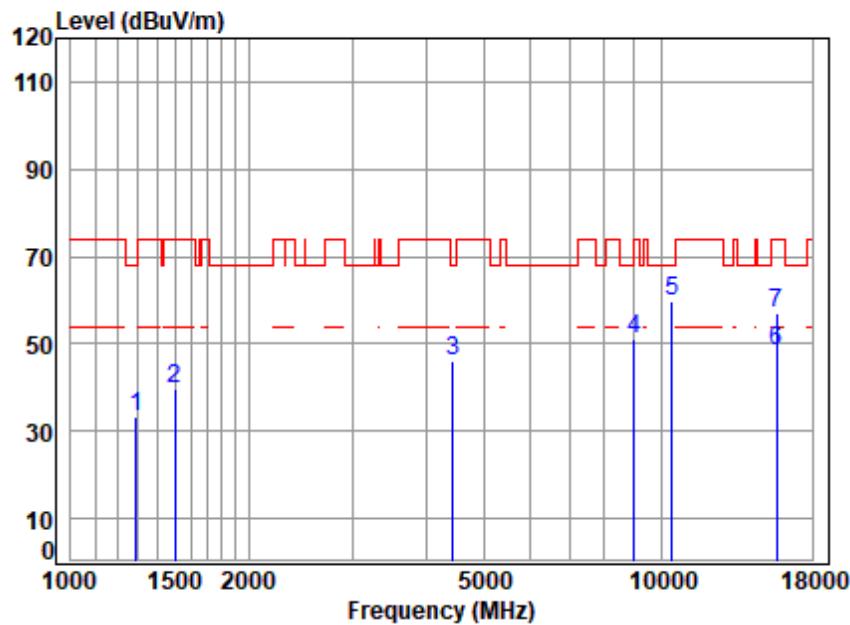
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Mode:c; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 03945CR

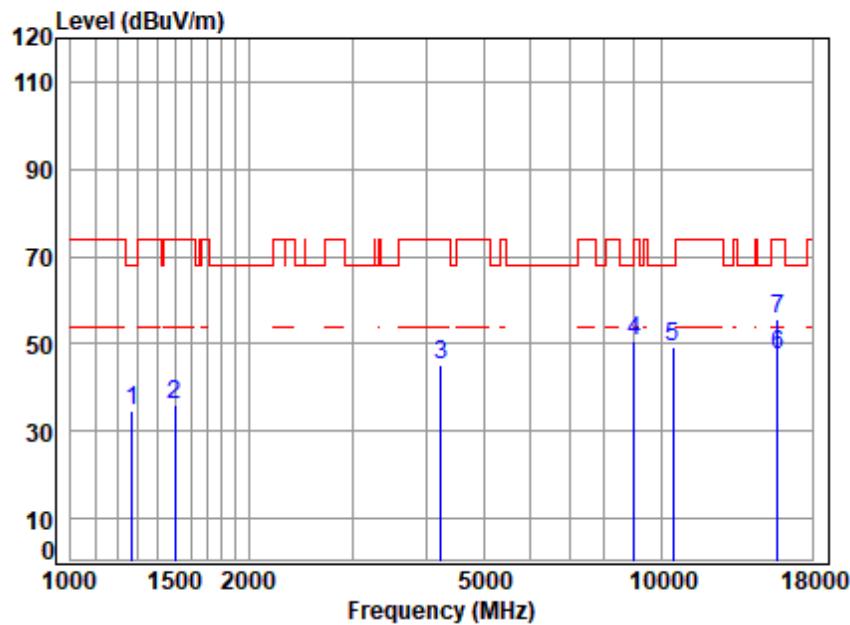
Mode : 5220 TX SE

Note : 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Limit	Over Limit	Remark
				Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1289.627	2.87	24.98	40.35	45.88	33.38	68.20	-34.82 peak
2	1498.781	2.98	25.80	40.51	51.40	39.67	74.00	-34.33 peak
3	4430.628	6.59	33.48	42.50	48.73	46.30	68.20	-21.90 peak
4	8995.123	9.03	37.20	39.52	44.30	51.01	68.20	-17.19 peak
5	10440.000	9.49	37.72	38.21	50.55	59.55	68.20	-8.65 peak
6	15660.000	11.70	40.80	40.58	36.36	48.28	54.00	-5.72 Average
7	15660.000	11.70	40.80	40.58	45.17	57.09	74.00	-16.91 peak



Mode:c; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5240 TX SE  
Note : 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dBuV	dBuV/m	dBuV/m	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1271.123	2.82	24.90	40.34	47.27	34.65	68.20	-33.55	peak
2 1503.119	2.99	25.81	40.51	47.61	35.90	74.00	-38.10	peak
3 4230.396	6.18	33.13	42.34	48.18	45.15	74.00	-28.85	peak
4 8995.123	9.03	37.20	39.52	43.78	50.49	68.20	-17.71	peak
5 10480.000	9.38	37.71	38.23	40.23	49.09	68.20	-19.11	peak
6 15720.000	11.46	40.83	40.57	35.85	47.57	54.00	-6.43	Average
7 15720.000	11.46	40.83	40.57	43.85	55.57	74.00	-18.43	peak

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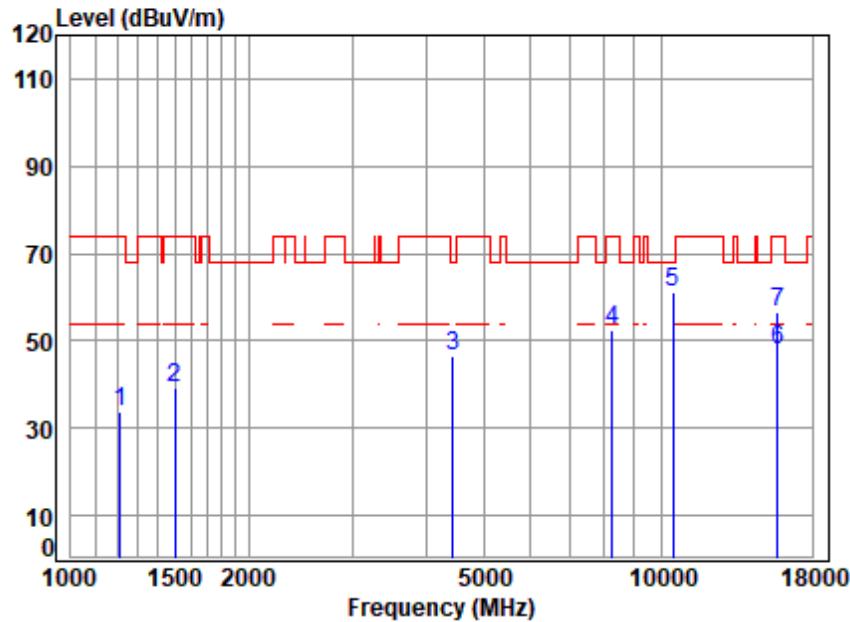
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Mode:c; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5240 TX SE  
Note : 5G WIFI 11AC20

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Remark
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	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1213.677	2.67	24.65	40.29	46.94	33.97	74.00	-40.03 peak
2	1498.781	2.98	25.80	40.51	50.75	39.02	74.00	-34.98 peak
3	4430.628	6.59	33.48	42.50	49.12	46.69	68.20	-21.51 peak
4	8271.880	8.23	36.87	40.72	47.88	52.26	74.00	-21.74 peak
5	10480.000	9.38	37.71	38.23	52.07	60.93	68.20	-7.27 peak
6	15720.000	11.46	40.83	40.57	36.28	48.00	54.00	-6.00 Average
7	15720.000	11.46	40.83	40.57	44.86	56.58	74.00	-17.42 peak

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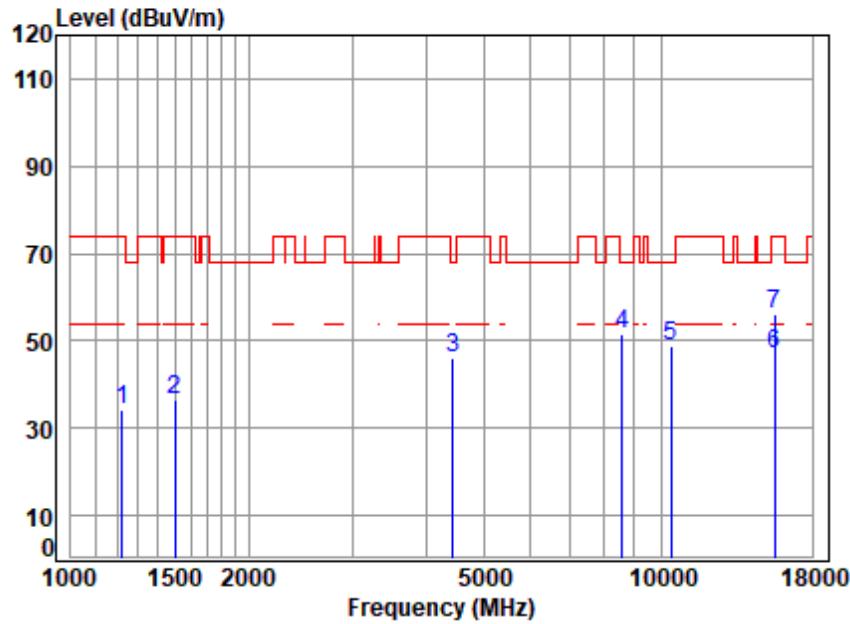
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Mode:c; Polarization:Horizontal; Modulation:802.11ac; bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5190 TX SE  
Note : 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1224.247	2.70	24.70	40.30	47.01	34.11	74.00	-39.89	peak
2 1498.781	2.98	25.80	40.51	48.12	36.39	74.00	-37.61	peak
3 4430.628	6.59	33.48	42.50	48.59	46.16	68.20	-22.04	peak
4 8588.607	8.88	37.04	40.18	45.97	51.71	68.20	-16.49	peak
5 10380.000	9.61	37.75	38.18	39.73	48.91	68.20	-19.29	peak
6 15570.000	12.06	40.74	40.58	34.92	47.14	54.00	-6.86	Average
7 15570.000	12.06	40.74	40.58	43.92	56.14	74.00	-17.86	peak

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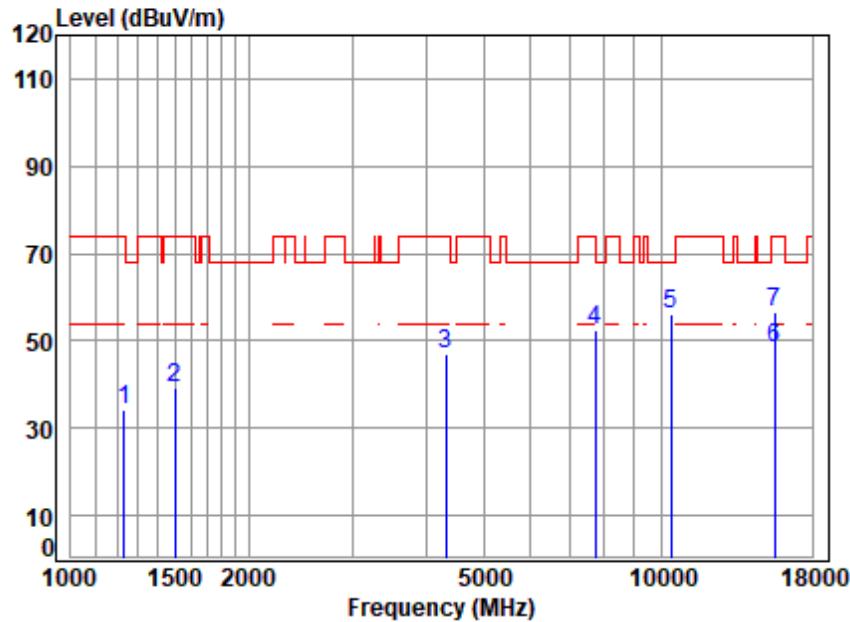
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Mode:c; Polarization:Vertical; Modulation:802.11ac; bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5190 TX SE  
Note : 5G WIFI 11AC40

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
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	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1231.345	2.72	24.73	40.31	46.94	34.08	74.00	-39.92 peak
2	1498.781	2.98	25.80	40.51	50.87	39.14	74.00	-34.86 peak
3	4316.859	6.37	33.28	42.41	49.98	47.22	74.00	-26.78 peak
4	7739.857	8.60	36.50	41.32	48.67	52.45	74.00	-21.55 peak
5	10380.000	9.61	37.75	38.18	46.97	56.15	68.20	-12.05 peak
6	15570.000	12.06	40.74	40.58	36.32	48.54	54.00	-5.46 Average
7	15570.000	12.06	40.74	40.58	44.50	56.72	74.00	-17.28 peak

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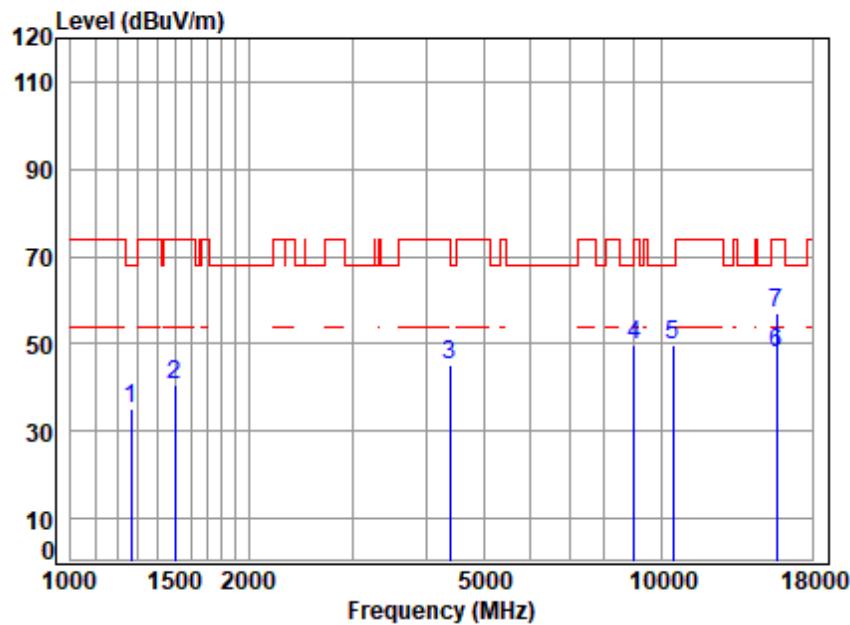
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Mode:c; Polarization:Horizontal; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5230 TX SE  
Note : 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dBuV	dBuV/m	dBuV/m	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1267.454	2.81	24.89	40.34	47.85	35.21	68.20	-32.99	peak
2 1498.781	2.98	25.80	40.51	52.18	40.45	74.00	-33.55	peak
3 4379.699	6.61	33.39	42.46	47.81	45.35	74.00	-28.65	peak
4 8995.123	9.03	37.20	39.52	43.23	49.94	68.20	-18.26	peak
5 10460.000	9.43	37.72	38.22	40.60	49.53	68.20	-18.67	peak
6 15690.000	11.52	40.82	40.58	36.05	47.81	54.00	-6.19	Average
7 15690.000	11.52	40.82	40.58	45.21	56.97	74.00	-17.03	peak

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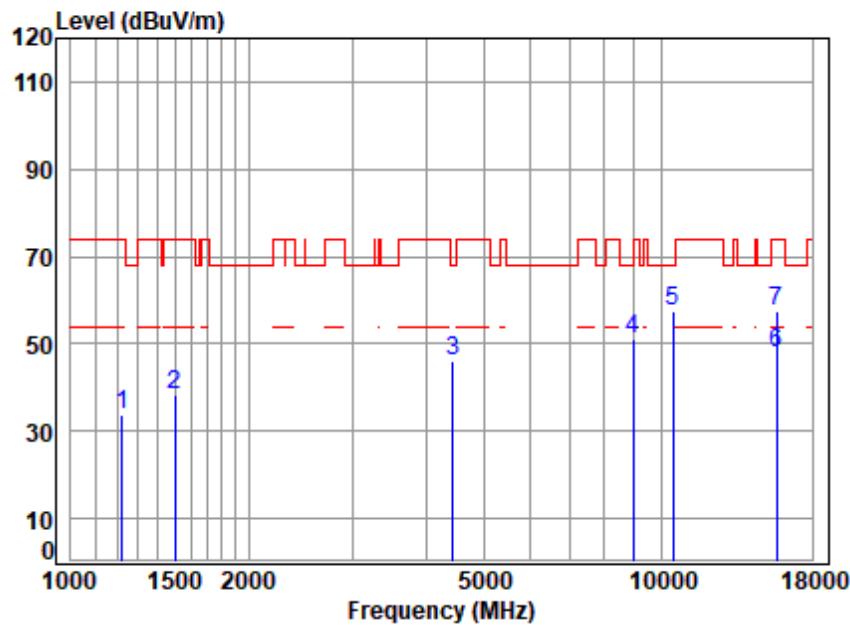
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Mode:c; Polarization:Vertical; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5230 TX SE  
Note : 5G WIFI 11AC40

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
--	---------------	-------------	------------------	---------------	----------------	---------------	---------------	--------

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1224.247	2.70	24.70	40.30	46.81	33.91	74.00	-40.09 peak
2	1498.781	2.98	25.80	40.51	50.23	38.50	74.00	-35.50 peak
3	4430.628	6.59	33.48	42.50	48.45	46.02	68.20	-22.18 peak
4	8943.274	8.65	37.18	39.60	44.99	51.22	68.20	-16.98 peak
5	10460.000	9.43	37.72	38.22	48.36	57.29	68.20	-10.91 peak
6	15690.000	11.52	40.82	40.58	36.15	47.91	54.00	-6.09 Average
7	15690.000	11.52	40.82	40.58	45.86	57.62	74.00	-16.38 peak

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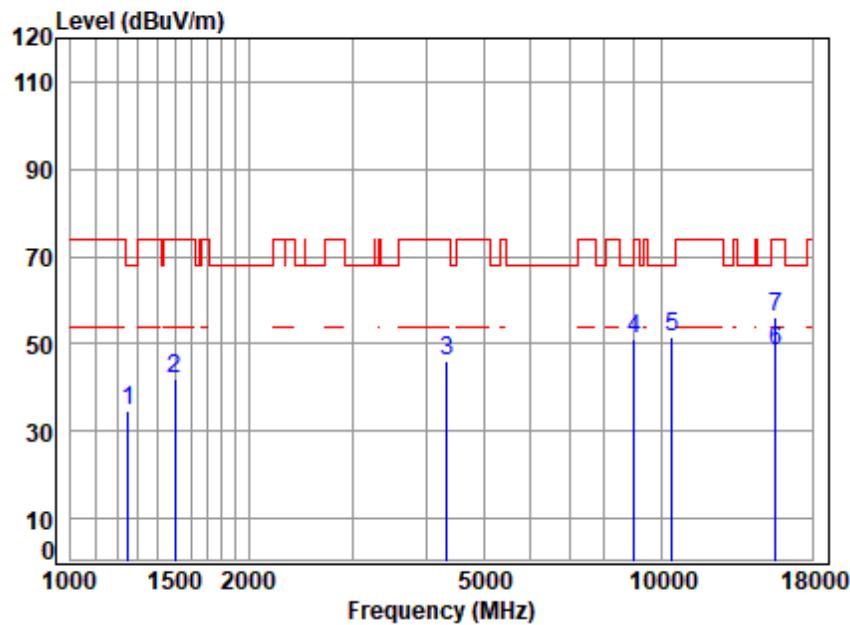
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Mode:c; Polarization:Horizontal; Modulation:802.11ac; bandwidth:80MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5210 TX SE  
Note : 5G WIFI 11AC80

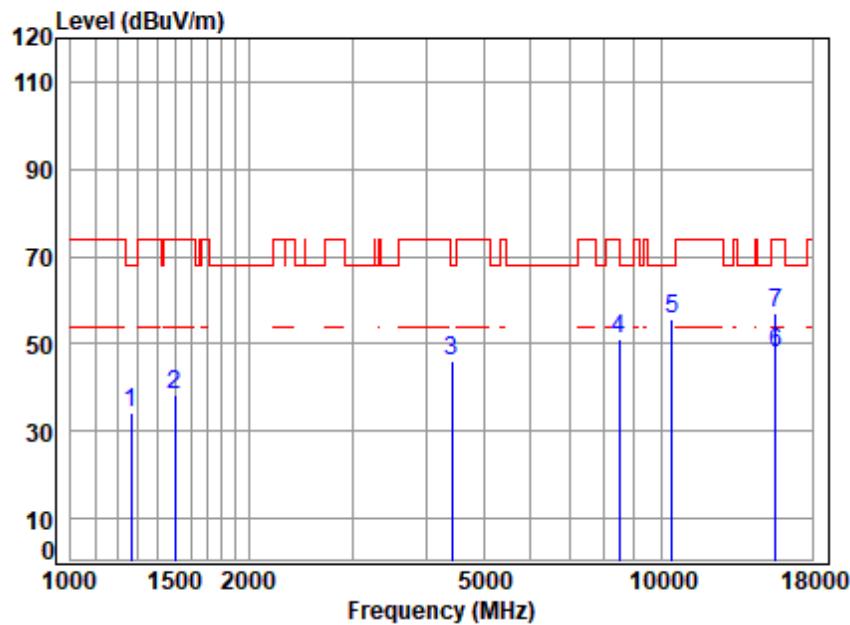
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	
1 1249.269	2.77	24.81	40.32	47.42	34.68	68.20	-33.52	peak
2 1503.119	2.99	25.81	40.51	53.59	41.88	74.00	-32.12	peak
3 4341.886	6.46	33.33	42.43	48.87	46.23	74.00	-27.77	peak
4 8995.123	9.03	37.20	39.52	44.52	51.23	68.20	-16.97	peak
5 10420.000	9.54	37.73	38.20	42.28	51.35	68.20	-16.85	peak
6 15630.000	11.87	40.78	40.58	36.22	48.29	54.00	-5.71	Average
7 15630.000	11.87	40.78	40.58	43.89	55.96	74.00	-18.04	peak

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Mode:c; Polarization:Vertical; Modulation:802.11ac; bandwidth:80MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5210 TX SE  
Note : 5G WIFI 11AC80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1267.454	2.81	24.89	40.34	46.80	34.16	68.20	-34.04	peak
2 1498.781	2.98	25.80	40.51	50.28	38.55	74.00	-35.45	peak
3 4417.841	6.63	33.46	42.49	48.60	46.20	68.20	-22.00	peak
4 8489.882	8.59	36.99	40.35	45.89	51.12	74.00	-22.88	peak
5 10420.000	9.54	37.73	38.20	46.57	55.64	68.20	-12.56	peak
6 15630.000	11.87	40.78	40.58	35.99	48.06	54.00	-5.94	Average
7 15630.000	11.87	40.78	40.58	45.13	57.20	74.00	-16.80	peak

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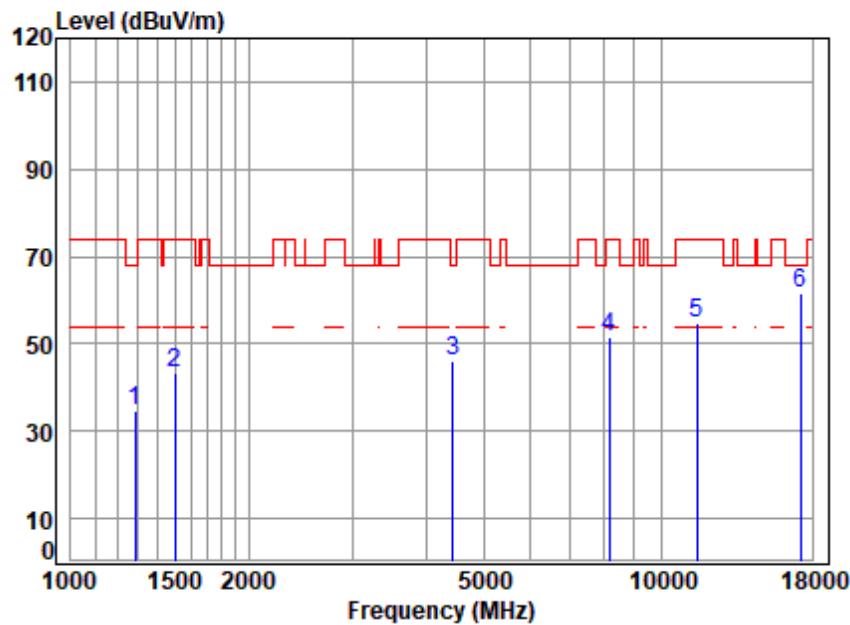
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Mode:d; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5745 TX SE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dBuV	dBuV/m	dBuV/m	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1285.904	2.86	24.96	40.35	47.04	34.51	68.20	-33.69	peak
2 1498.781	2.98	25.80	40.51	54.98	43.25	74.00	-30.75	peak
3 4430.628	6.59	33.48	42.50	48.72	46.29	68.20	-21.91	peak
4 8176.795	8.37	36.81	40.89	47.23	51.52	74.00	-22.48	peak
5 11490.000	10.99	37.90	38.69	44.59	54.79	74.00	-19.21	peak
6 17235.000	14.32	42.74	40.52	45.13	61.67	68.20	-6.53	peak

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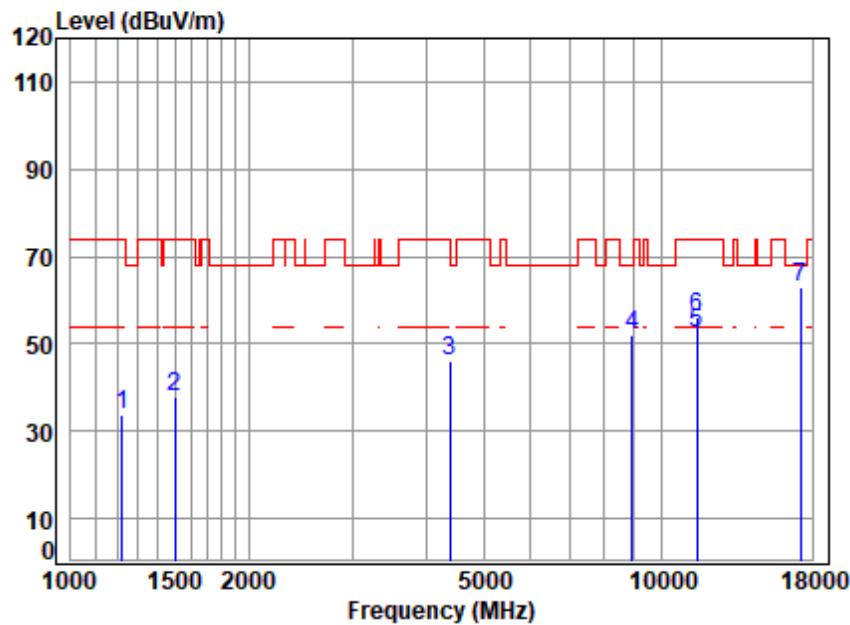
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Mode:d; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5745 TX SE  
Note : 5G WIFI 11A

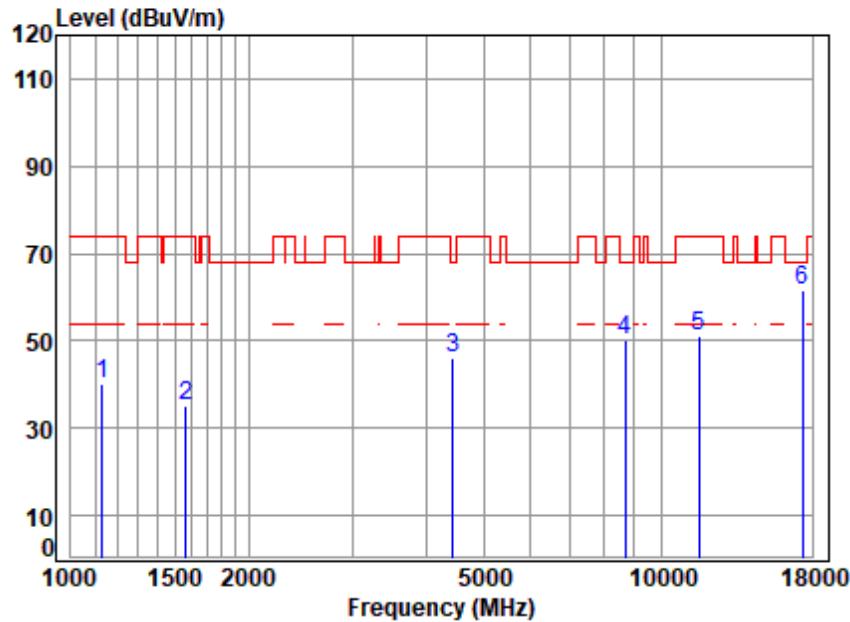
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1220.714	2.69	24.68	40.30	46.67	33.74	74.00	-40.26	peak
2 1498.781	2.98	25.80	40.51	49.78	38.05	74.00	-35.95	peak
3 4379.699	6.61	33.39	42.46	48.57	46.11	74.00	-27.89	peak
4 8917.462	8.45	37.17	39.64	45.92	51.90	68.20	-16.30	peak
5 11490.000	10.99	37.90	38.69	42.42	52.62	54.00	-1.38	Average
6 11490.000	10.99	37.90	38.69	45.81	56.01	74.00	-17.99	peak
7 17235.000	14.32	42.74	40.52	46.61	63.15	68.20	-5.05	peak

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Mode:d; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5785 TX SE  
Note : 5G WIFI 11A

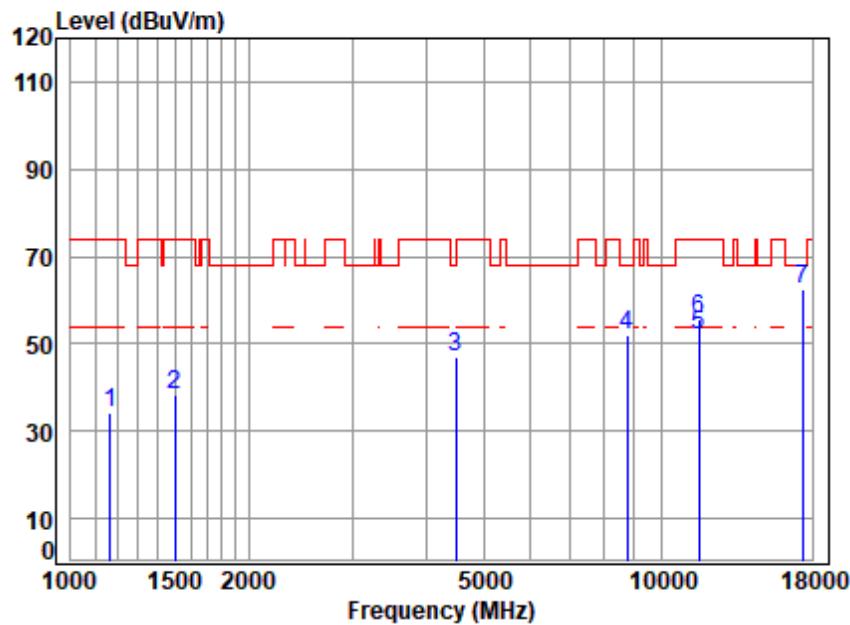
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1129.072	2.32	24.26	40.22	53.71	40.07	74.00	-33.93	peak
2 1569.721	2.96	26.12	40.55	46.51	35.04	74.00	-38.96	peak
3 4443.453	6.55	33.50	42.51	48.49	46.03	68.20	-22.17	peak
4 8688.480	8.62	37.08	40.02	44.67	50.35	68.20	-17.85	peak
5 11570.000	10.66	37.87	38.72	41.23	51.04	74.00	-22.96	peak
6 17355.000	13.87	42.81	40.52	45.22	61.38	68.20	-6.82	peak

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Mode:d; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5785 TX SE  
Note : 5G WIFI 11A

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Over Remark
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	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1165.546	2.48	24.43	40.25	47.67	34.33	74.00	-39.67 peak
2	1498.781	2.98	25.80	40.51	50.14	38.41	74.00	-35.59 peak
3	4495.125	6.39	33.59	42.55	49.45	46.88	68.20	-21.32 peak
4	8764.146	8.50	37.11	39.89	46.51	52.23	68.20	-15.97 peak
5	11570.000	10.66	37.87	38.72	42.33	52.14	54.00	-1.86 Average
6	11570.000	10.66	37.87	38.72	45.90	55.71	74.00	-18.29 peak
7	17355.000	13.87	42.81	40.52	46.33	62.49	68.20	-5.71 peak

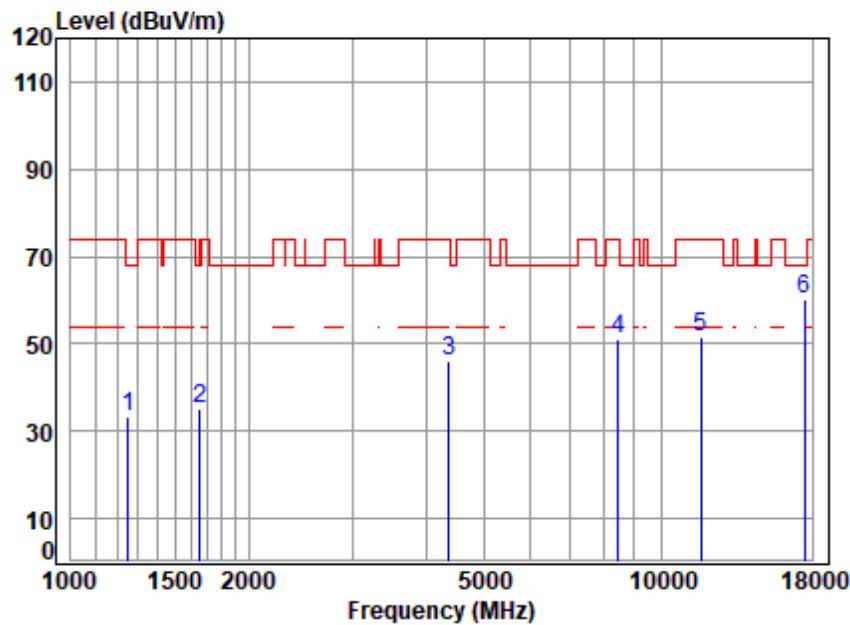
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Mode:d; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5825 TX SE  
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	
1 1249.269	2.77	24.81	40.32	46.20	33.46	68.20	-34.74	peak
2 1653.550	3.15	26.48	40.60	46.08	35.11	68.20	-33.09	peak
3 4367.058	6.56	33.37	42.45	48.44	45.92	74.00	-28.08	peak
4 8465.379	8.52	36.98	40.39	46.01	51.12	74.00	-22.88	peak
5 11650.000	10.52	37.84	38.75	42.14	51.75	74.00	-22.25	peak
6 17475.000	13.18	42.89	40.52	44.79	60.34	68.20	-7.86	peak

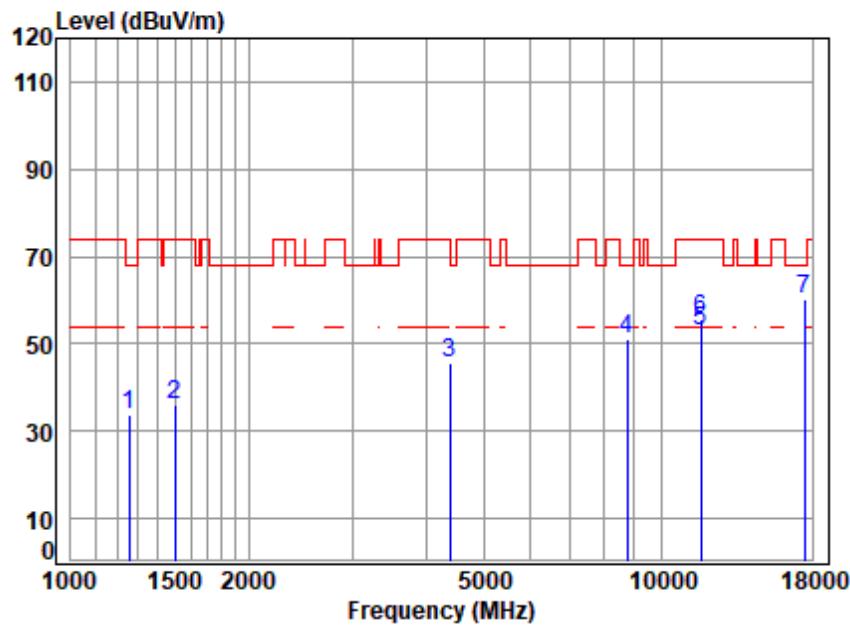
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Mode:d; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5825 TX SE  
Note : 5G WIFI 11A

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Over Remark
--	---------------	-------------	------------------	---------------	----------------	---------------	---------------	----------------

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1256.512	2.79	24.84	40.33	46.48	33.78	68.20	-34.42 peak
2	1498.781	2.98	25.80	40.51	47.99	36.26	74.00	-37.74 peak
3	4392.376	6.66	33.42	42.47	48.06	45.67	74.00	-28.33 peak
4	8764.146	8.50	37.11	39.89	45.22	50.94	68.20	-17.26 peak
5	11650.000	10.52	37.84	38.75	43.19	52.80	54.00	-1.20 Average
6	11650.000	10.52	37.84	38.75	45.90	55.51	74.00	-18.49 peak
7	17475.000	13.18	42.89	40.52	44.73	60.28	68.20	-7.92 peak

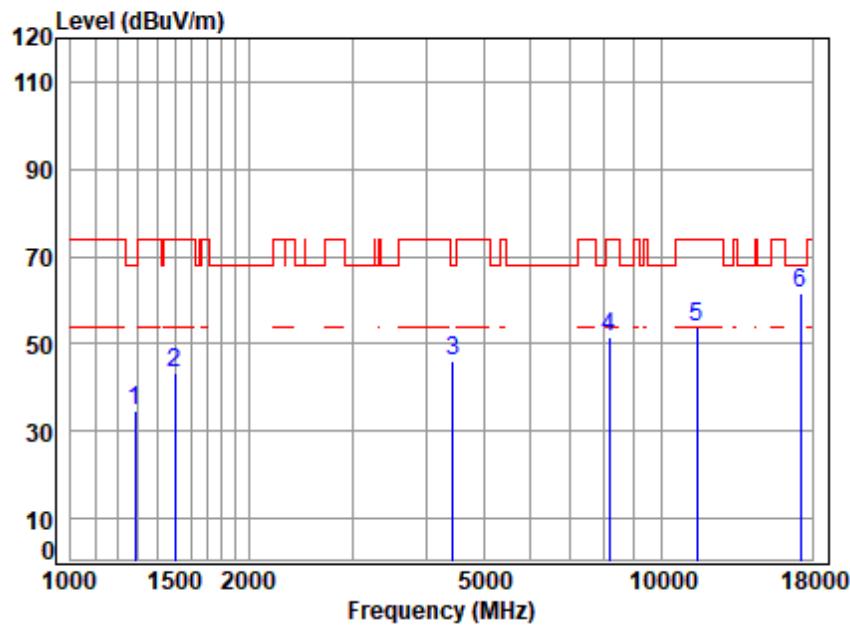
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Mode:d; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5745 TX SE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dBuV	dBuV/m	dBuV/m	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1285.904	2.86	24.96	40.35	47.04	34.51	68.20	-33.69	peak
2 1498.781	2.98	25.80	40.51	54.98	43.25	74.00	-30.75	peak
3 4430.628	6.59	33.48	42.50	48.72	46.29	68.20	-21.91	peak
4 8176.795	8.37	36.81	40.89	47.23	51.52	74.00	-22.48	peak
5 11490.000	10.99	37.90	38.69	43.59	53.79	74.00	-20.21	peak
6 17235.000	14.32	42.74	40.52	45.13	61.67	68.20	-6.53	peak

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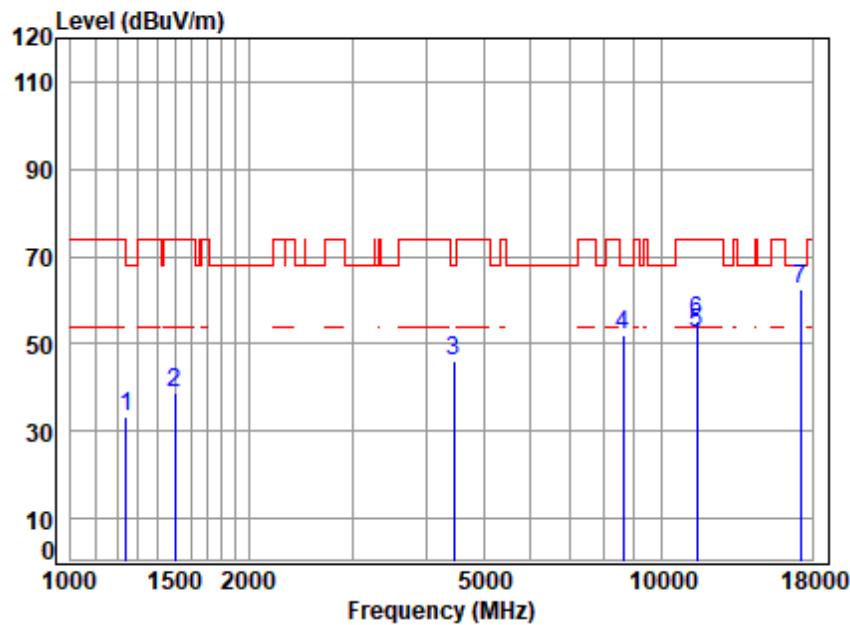
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Mode:d; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5745 TX SE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
				dB	dBuV	dBuV/m	dBuV/m	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1242.068	2.75	24.78	40.32	46.03	33.24	68.20	-34.96	peak
2 1498.781	2.98	25.80	40.51	50.66	38.93	74.00	-35.07	peak
3 4456.315	6.51	33.53	42.52	48.46	45.98	68.20	-22.22	peak
4 8613.468	8.87	37.05	40.14	46.36	52.14	68.20	-16.06	peak
5 11490.000	10.99	37.90	38.69	42.08	52.28	54.00	-1.72	Average
6 11490.000	10.99	37.90	38.69	45.08	55.28	74.00	-18.72	peak
7 17235.000	14.32	42.74	40.52	45.78	62.32	68.20	-5.88	peak

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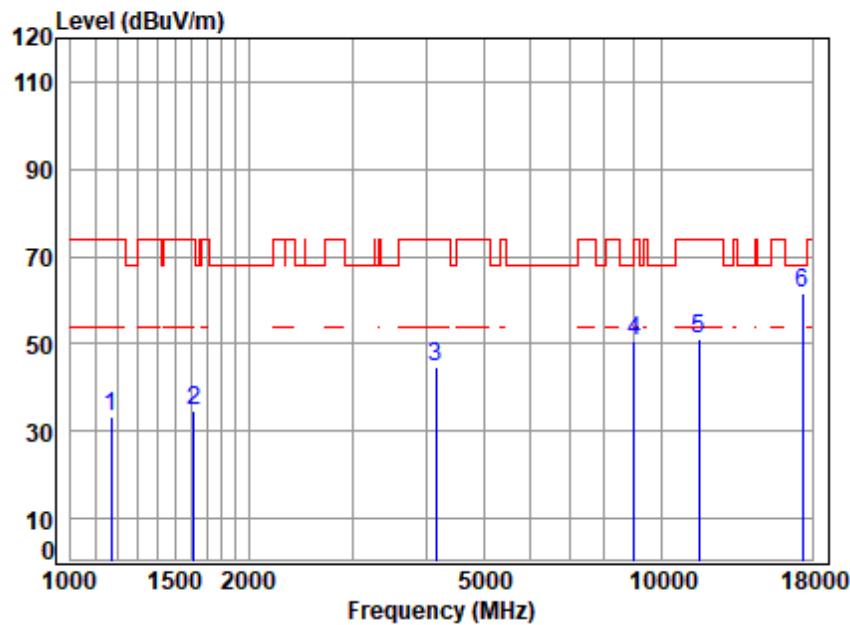
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Mode:d; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5785 TX SE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	
1 1172.303	2.51	24.46	40.26	46.49	33.20	74.00	-40.80	peak
2 1615.754	3.01	26.32	40.58	45.97	34.72	74.00	-39.28	peak
3 4145.664	6.05	32.97	42.28	48.20	44.94	74.00	-29.06	peak
4 8995.123	9.03	37.20	39.52	43.90	50.61	68.20	-17.59	peak
5 11570.000	10.66	37.87	38.72	41.24	51.05	74.00	-22.95	peak
6 17355.000	13.87	42.81	40.52	45.24	61.40	68.20	-6.80	peak

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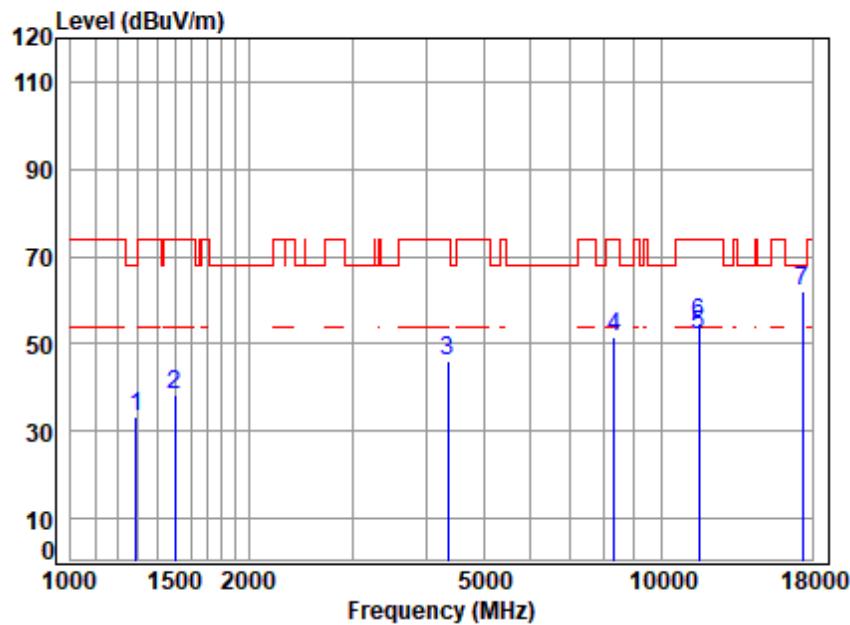
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Mode:d; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5785 TX SE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dBuV	dBuV/m	dBuV/m	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1289.627	2.87	24.98	40.35	45.89	33.39	68.20	-34.81	peak
2 1498.781	2.98	25.80	40.51	50.06	38.33	74.00	-35.67	peak
3 4354.454	6.51	33.35	42.44	48.59	46.01	74.00	-27.99	peak
4 8319.836	8.22	36.89	40.64	47.12	51.59	74.00	-22.41	peak
5 11570.000	10.66	37.87	38.72	42.26	52.07	54.00	-1.93	Average
6 11570.000	10.66	37.87	38.72	45.16	54.97	74.00	-19.03	peak
7 17355.000	13.87	42.81	40.52	45.93	62.09	68.20	-6.11	peak

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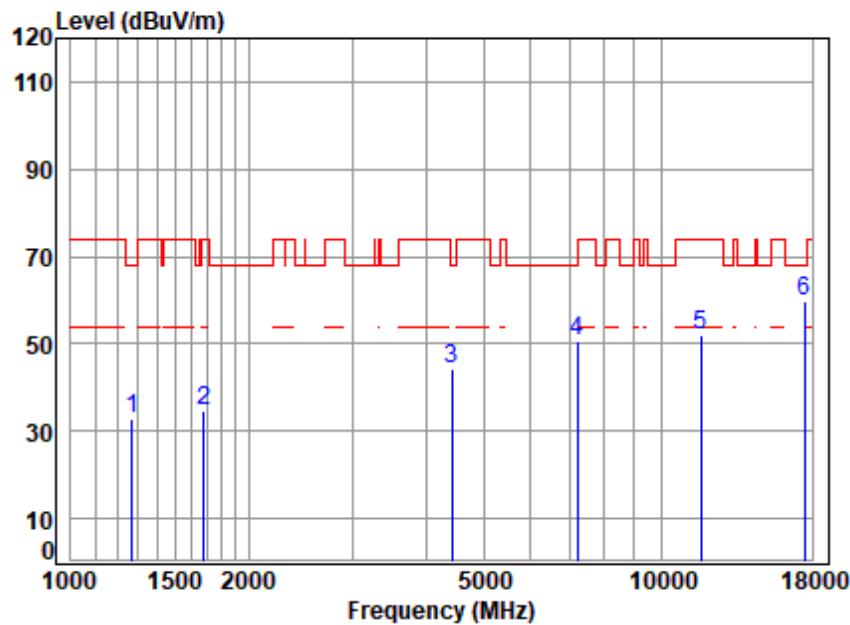
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Mode:d; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5825 TX SE  
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	
1 1271.123	2.82	24.90	40.34	45.56	32.94	68.20	-35.26	peak
2 1682.477	3.25	26.60	40.62	45.50	34.73	74.00	-39.27	peak
3 4417.841	6.63	33.46	42.49	46.84	44.44	68.20	-23.76	peak
4 7221.150	8.43	36.08	41.57	47.75	50.69	68.20	-17.51	peak
5 11650.000	10.52	37.84	38.75	42.55	52.16	74.00	-21.84	peak
6 17475.000	13.18	42.89	40.52	44.32	59.87	68.20	-8.33	peak

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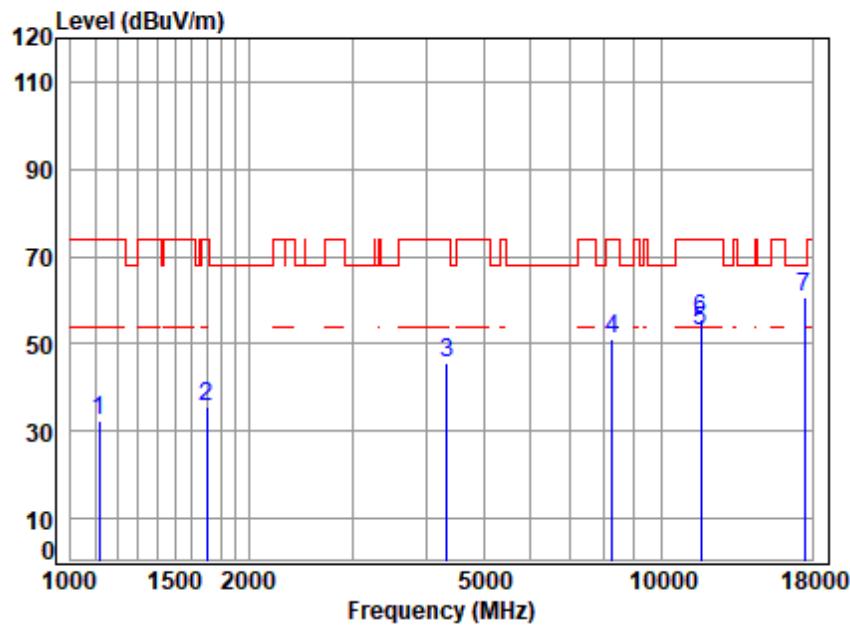
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Mode:d; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5825 TX SE  
Note : 5G WIFI 11N20

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Over Remark
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	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1119.323	2.28	24.21	40.21	46.20	32.48	74.00	-41.52 peak
2	1697.129	3.30	26.66	40.63	46.25	35.58	74.00	-38.42 peak
3	4341.886	6.46	33.33	42.43	48.33	45.69	74.00	-28.31 peak
4	8248.005	8.27	36.85	40.76	46.73	51.09	74.00	-22.91 peak
5	11650.000	10.52	37.84	38.75	43.26	52.87	54.00	-1.13 Average
6	11650.000	10.52	37.84	38.75	46.07	55.68	74.00	-18.32 peak
7	17475.000	13.18	42.89	40.52	45.11	60.66	68.20	-7.54 peak

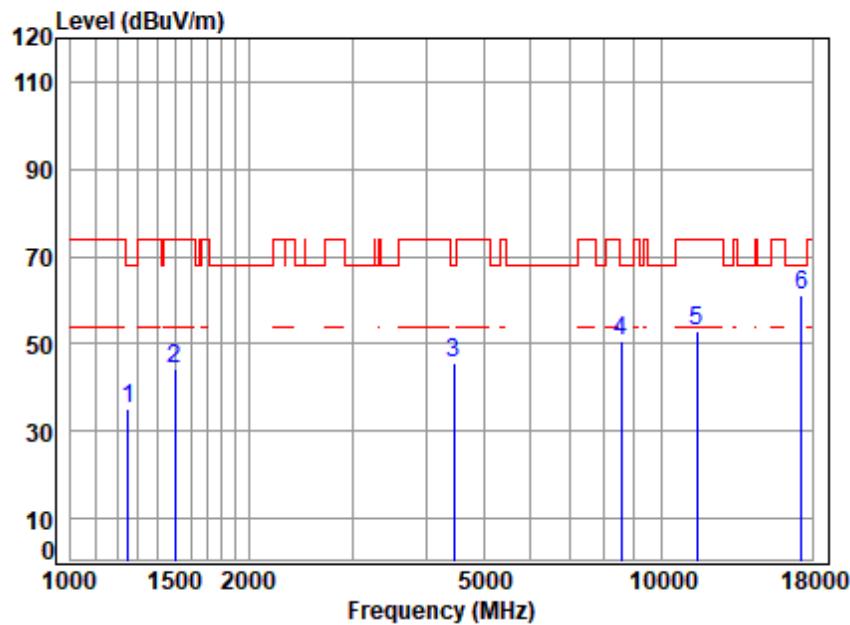
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Mode:d; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5755 TX SE  
Note : 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1249.269	2.77	24.81	40.32	47.67	34.93	68.20	-33.27	peak
2 1498.781	2.98	25.80	40.51	55.81	44.08	74.00	-29.92	peak
3 4456.315	6.51	33.53	42.52	47.90	45.42	68.20	-22.78	peak
4 8539.102	8.73	37.02	40.26	45.07	50.56	68.20	-17.64	peak
5 11510.000	10.89	37.90	38.69	43.01	53.11	74.00	-20.89	peak
6 17265.000	14.47	42.76	40.52	44.65	61.36	68.20	-6.84	peak

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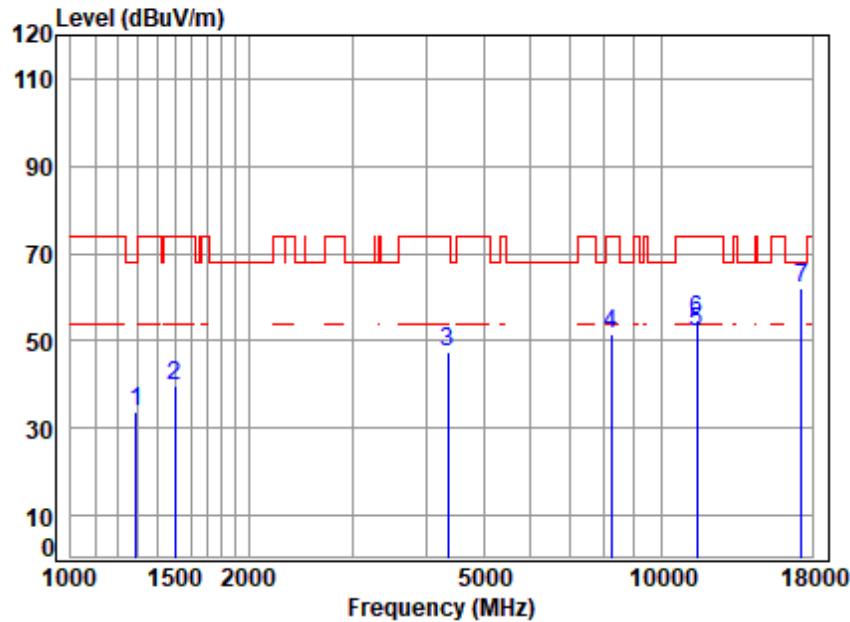
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Mode:d; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5755 TX SE  
Note : 5G WIFI 11N40

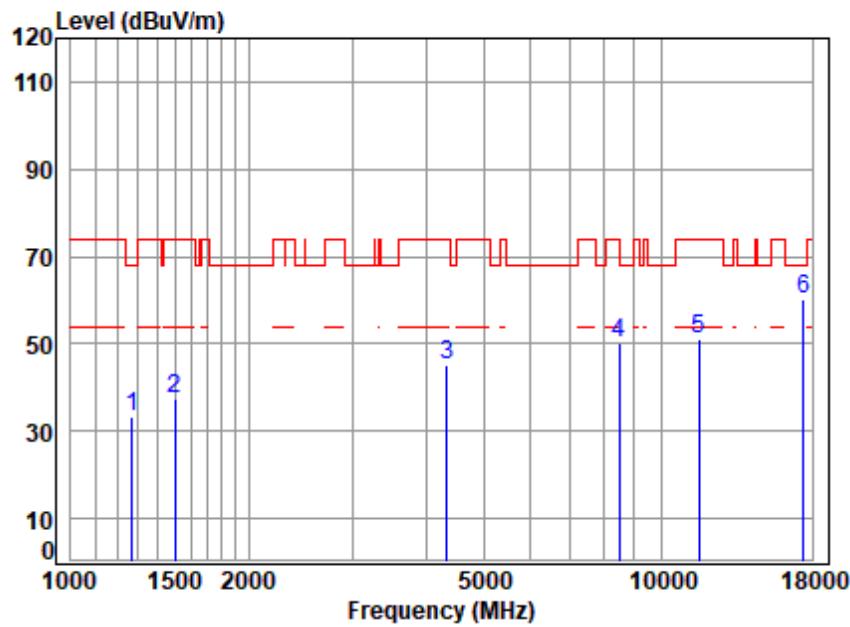
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
				dB	dB/m	dB	dBuV	
1 1289.627	2.87	24.98	40.35	46.29	33.79	68.20	-34.41	peak
2 1498.781	2.98	25.80	40.51	51.25	39.52	74.00	-34.48	peak
3 4354.454	6.51	33.35	42.44	49.92	47.34	74.00	-26.66	peak
4 8224.200	8.31	36.84	40.80	47.32	51.67	74.00	-22.33	peak
5 11510.000	10.89	37.90	38.69	42.10	52.20	54.00	-1.80	Average
6 11510.000	10.89	37.90	38.69	44.82	54.92	74.00	-19.08	peak
7 17265.000	14.47	42.76	40.52	45.45	62.16	68.20	-6.04	peak

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Mode:d; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5795 TX SE  
Note : 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dBuV	dBuV/m	dB	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1271.123	2.82	24.90	40.34	46.11	33.49	68.20	-34.71	peak
2 1498.781	2.98	25.80	40.51	49.37	37.64	74.00	-36.36	peak
3 4329.354	6.42	33.30	42.42	48.09	45.39	74.00	-28.61	peak
4 8489.882	8.59	36.99	40.35	44.85	50.08	74.00	-23.92	peak
5 11590.000	10.59	37.86	38.73	41.27	50.99	74.00	-23.01	peak
6 17385.000	13.46	42.83	40.52	44.46	60.23	68.20	-7.97	peak

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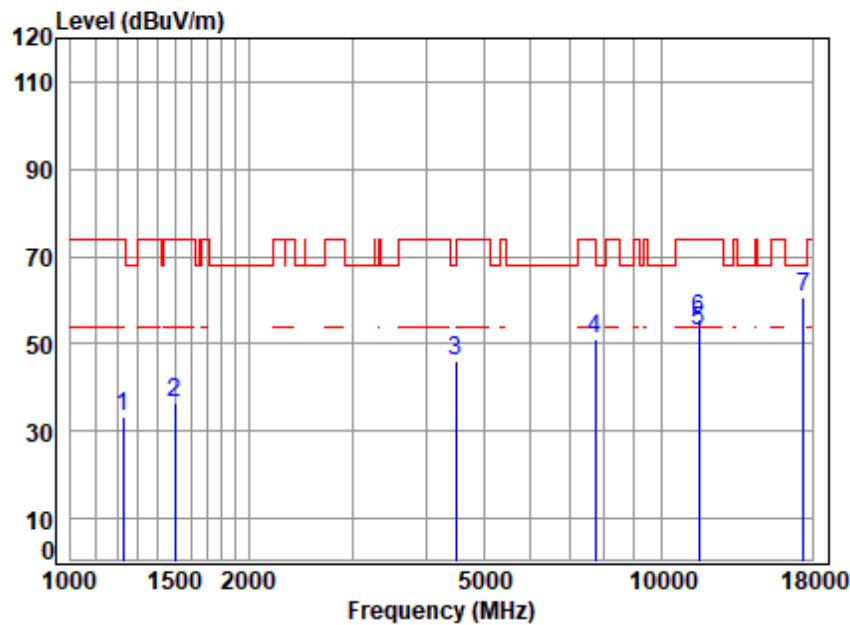
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Mode:d; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5795 TX SE  
Note : 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dBuV	dBuV/m	dBuV/m	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1227.791	2.71	24.71	40.31	46.26	33.37	74.00	-40.63	peak
2 1503.119	2.99	25.81	40.51	48.15	36.44	74.00	-37.56	peak
3 4482.150	6.43	33.57	42.54	48.40	45.86	68.20	-22.34	peak
4 7717.518	8.61	36.48	41.33	47.42	51.18	74.00	-22.82	peak
5 11590.000	10.59	37.86	38.73	43.13	52.85	54.00	-1.15	Average
6 11590.000	10.59	37.86	38.73	45.73	55.45	74.00	-18.55	peak
7 17385.000	13.46	42.83	40.52	44.75	60.52	68.20	-7.68	peak

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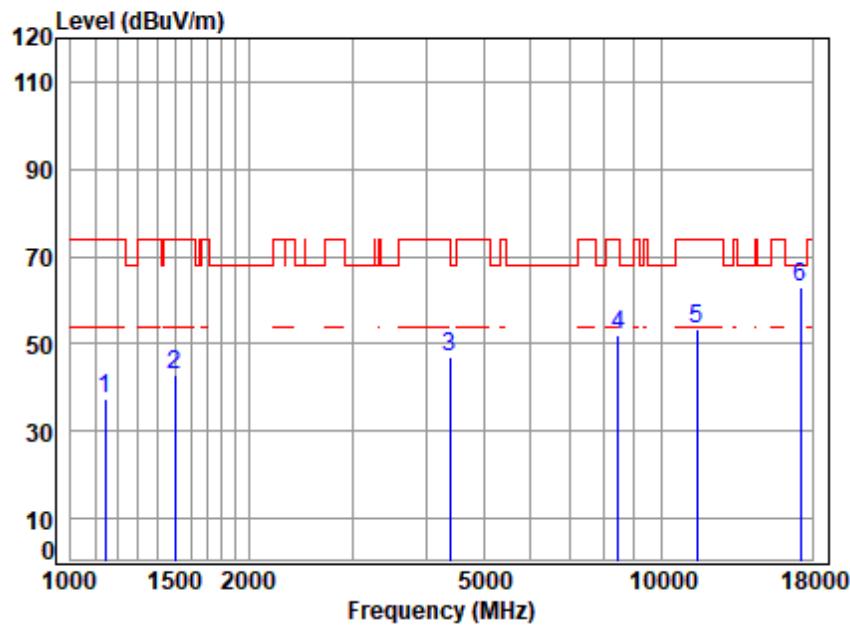
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Mode:d; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5745 TX SE  
Note : 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dBuV	dBuV/m	dBuV/m	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1145.507	2.39	24.34	40.24	50.86	37.35	74.00	-36.65	peak
2 1498.781	2.98	25.80	40.51	54.72	42.99	74.00	-31.01	peak
3 4379.699	6.61	33.39	42.46	49.45	46.99	74.00	-27.01	peak
4 8465.379	8.52	36.98	40.39	46.82	51.93	74.00	-22.07	peak
5 11490.000	10.99	37.90	38.69	43.19	53.39	74.00	-20.61	peak
6 17235.000	14.32	42.74	40.52	46.29	62.83	68.20	-5.37	peak

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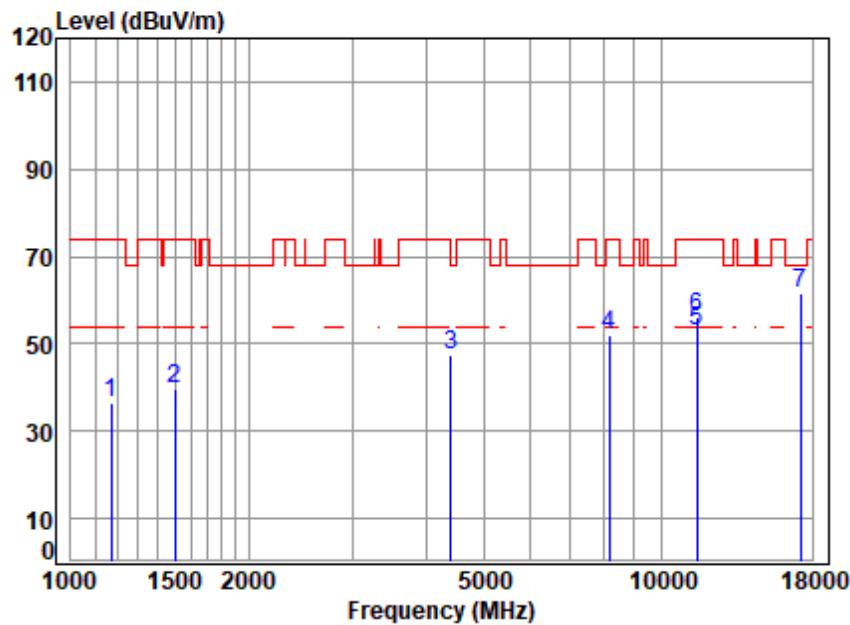
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Mode:d; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:Low



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 03945CR  
 Mode : 5745 TX SE  
 Note : 5G WIFI 11AC20

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Remark
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	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1168.920	2.50	24.45	40.26	49.67	36.36	74.00	-37.64 peak
2	1498.781	2.98	25.80	40.51	51.26	39.53	74.00	-34.47 peak
3	4405.090	6.67	33.44	42.48	49.60	47.23	68.20	-20.97 peak
4	8153.195	8.39	36.79	40.93	47.82	52.07	74.00	-21.93 peak
5	11490.000	10.99	37.90	38.69	42.74	52.94	54.00	-1.06 Average
6	11490.000	10.99	37.90	38.69	46.13	56.33	74.00	-17.67 peak
7	17235.000	14.32	42.74	40.52	45.15	61.69	68.20	-6.51 peak

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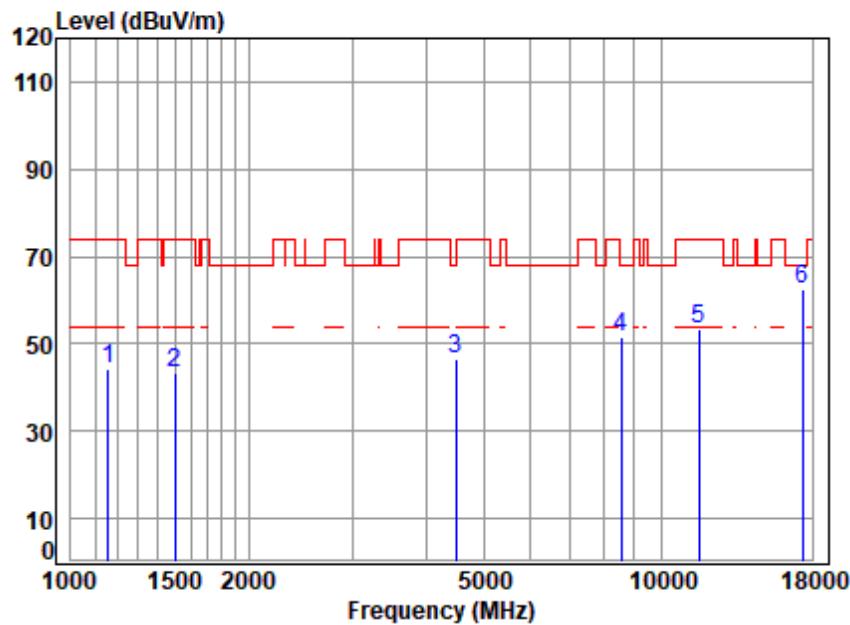
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Mode:d; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5785 TX SE  
Note : 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Limit	Over Limit	Remark
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 1158.828	2.45	24.40	40.25	57.66	44.26	74.00	-29.74	peak
2 1498.781	2.98	25.80	40.51	55.30	43.57	74.00	-30.43	peak
3 4495.125	6.39	33.59	42.55	48.91	46.34	68.20	-21.86	peak
4 8539.102	8.73	37.02	40.26	46.09	51.58	68.20	-16.62	peak
5 11570.000	10.66	37.87	38.72	43.42	53.23	74.00	-20.77	peak
6 17355.000	13.87	42.81	40.52	46.37	62.53	68.20	-5.67	peak

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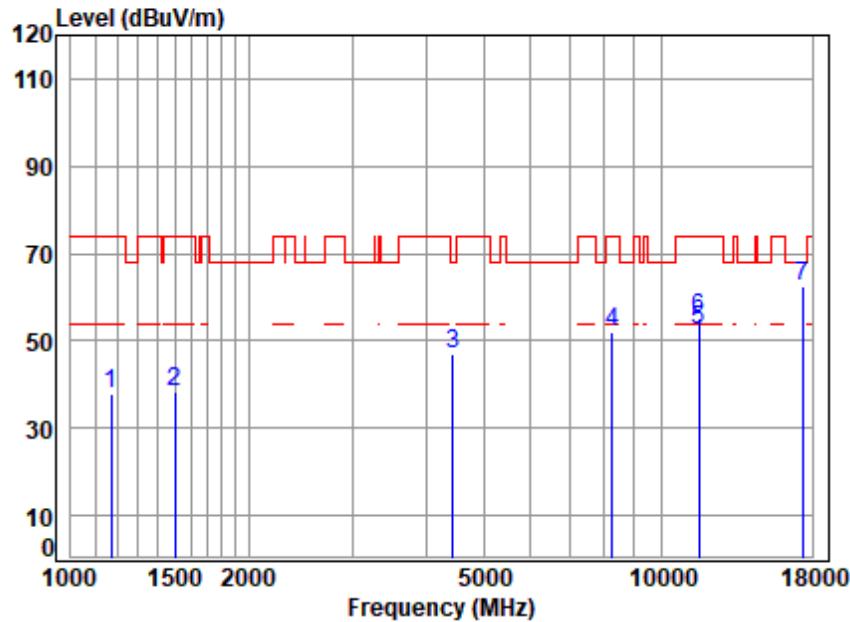
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Mode:d; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5785 TX SE  
Note : 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dBuV	dBuV/m	dBuV/m	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1168.920	2.50	24.45	40.26	51.37	38.06	74.00	-35.94	peak
2 1498.781	2.98	25.80	40.51	49.85	38.12	74.00	-35.88	peak
3 4430.628	6.59	33.48	42.50	49.33	46.90	68.20	-21.30	peak
4 8271.880	8.23	36.87	40.72	47.62	52.00	74.00	-22.00	peak
5 11570.000	10.66	37.87	38.72	42.85	52.66	54.00	-1.34	Average
6 11570.000	10.66	37.87	38.72	45.54	55.35	74.00	-18.65	peak
7 17355.000	13.87	42.81	40.52	46.26	62.42	68.20	-5.78	peak

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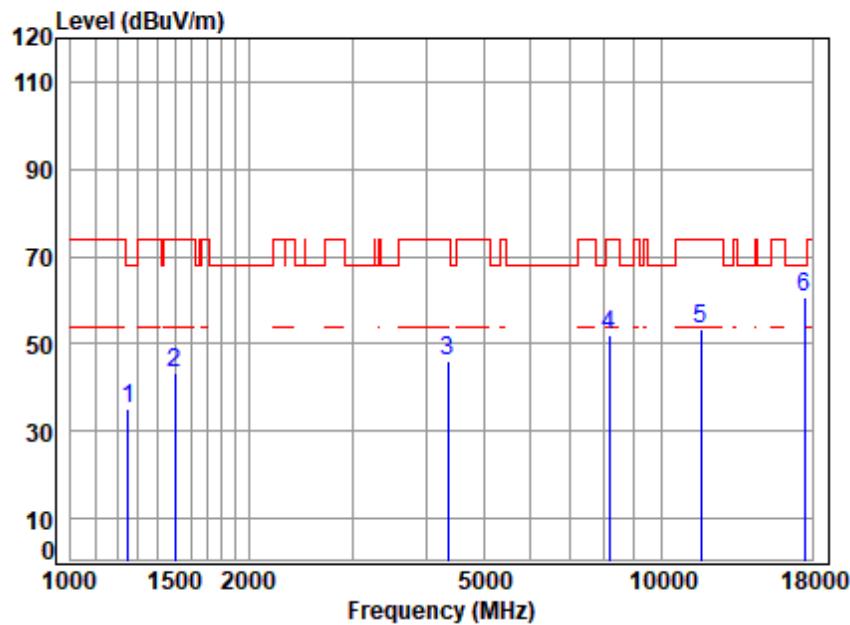
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Mode:d; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5825 TX SE  
Note : 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dBuV	dBuV/m	dBuV/m	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1249.269	2.77	24.81	40.32	47.94	35.20	68.20	-33.00	peak
2 1498.781	2.98	25.80	40.51	55.11	43.38	74.00	-30.62	peak
3 4354.454	6.51	33.35	42.44	48.87	46.29	74.00	-27.71	peak
4 8176.795	8.37	36.81	40.89	47.94	52.23	74.00	-21.77	peak
5 11650.000	10.52	37.84	38.75	43.67	53.28	74.00	-20.72	peak
6 17475.000	13.18	42.89	40.52	44.93	60.48	68.20	-7.72	peak

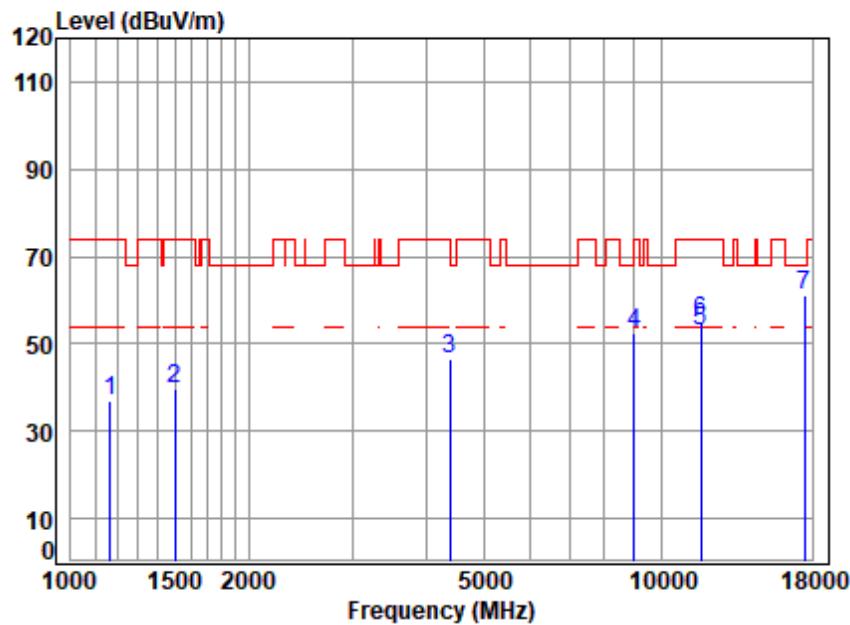
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Mode:d; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5825 TX SE  
Note : 5G WIFI 11AC20

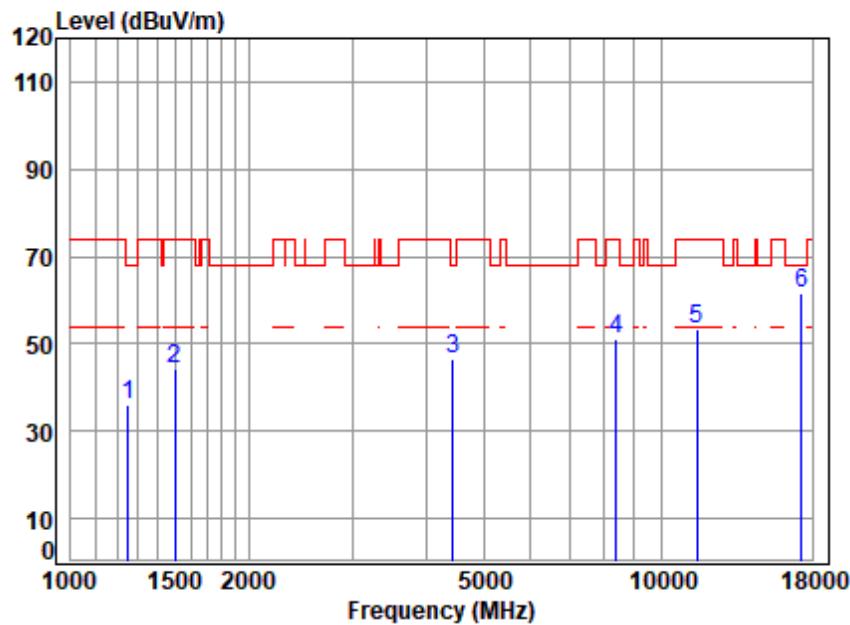
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1165.546	2.48	24.43	40.25	50.27	36.93	74.00	-37.07	peak
2 1498.781	2.98	25.80	40.51	51.56	39.83	74.00	-34.17	peak
3 4392.376	6.66	33.42	42.47	48.89	46.50	74.00	-27.50	peak
4 8995.123	9.03	37.20	39.52	45.76	52.47	68.20	-15.73	peak
5 11650.000	10.52	37.84	38.75	43.21	52.82	54.00	-1.18	Average
6 11650.000	10.52	37.84	38.75	45.51	55.12	74.00	-18.88	peak
7 17475.000	13.18	42.89	40.52	45.40	60.95	68.20	-7.25	peak

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Mode:d; Polarization:Horizontal; Modulation:802.11ac; bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5755 TX SE  
Note : 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1249.269	2.77	24.81	40.32	48.68	35.94	68.20	-32.26	peak
2 1498.781	2.98	25.80	40.51	55.93	44.20	74.00	-29.80	peak
3 4443.453	6.55	33.50	42.51	49.07	46.61	68.20	-21.59	peak
4 8392.292	8.33	36.94	40.51	46.22	50.98	74.00	-23.02	peak
5 11510.000	10.89	37.90	38.69	43.17	53.27	74.00	-20.73	peak
6 17265.000	14.47	42.76	40.52	44.77	61.48	68.20	-6.72	peak

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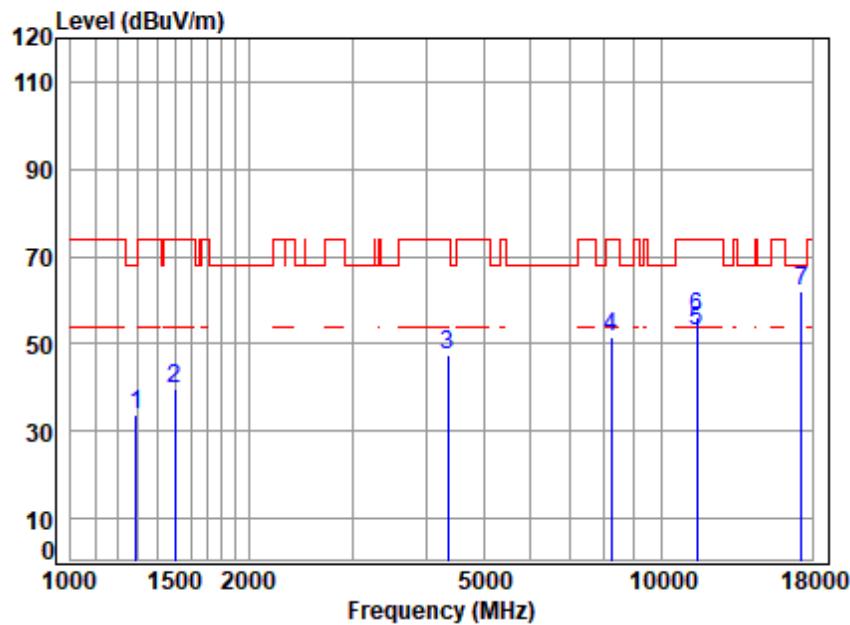
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Mode:d; Polarization:Vertical; Modulation:802.11ac; bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5755 TX SE  
Note : 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dBuV	dBuV/m	dBuV/m	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1289.627	2.87	24.98	40.35	46.29	33.79	68.20	-34.41	peak
2 1498.781	2.98	25.80	40.51	51.25	39.52	74.00	-34.48	peak
3 4354.454	6.51	33.35	42.44	49.92	47.34	74.00	-26.66	peak
4 8224.200	8.31	36.84	40.80	47.32	51.67	74.00	-22.33	peak
5 11510.000	10.89	37.90	38.69	42.88	52.98	54.00	-1.02	Average
6 11510.000	10.89	37.90	38.69	45.82	55.92	74.00	-18.08	peak
7 17265.000	14.47	42.76	40.52	45.45	62.16	68.20	-6.04	peak

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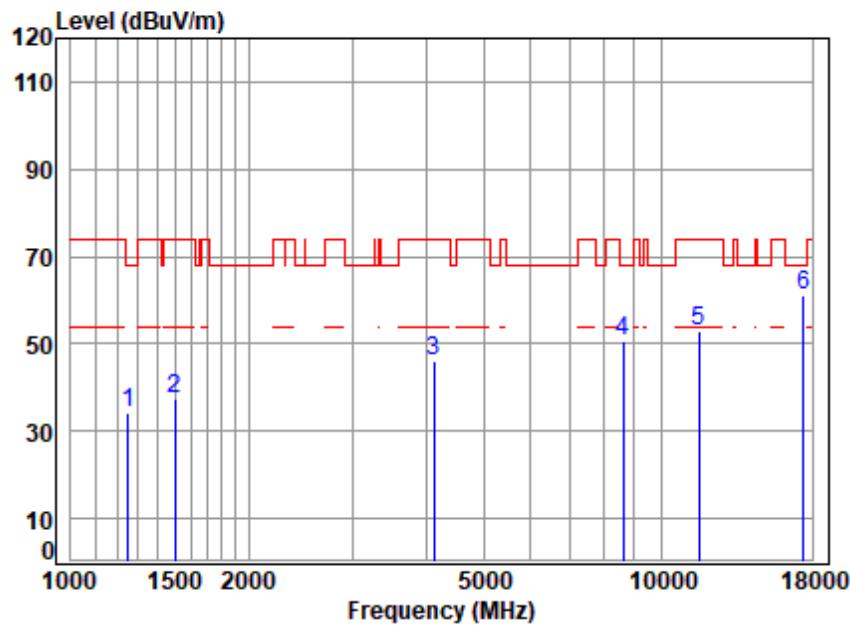
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Mode:d; Polarization:Horizontal; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5795 TX SE  
Note : 5G WIFI 11AC40

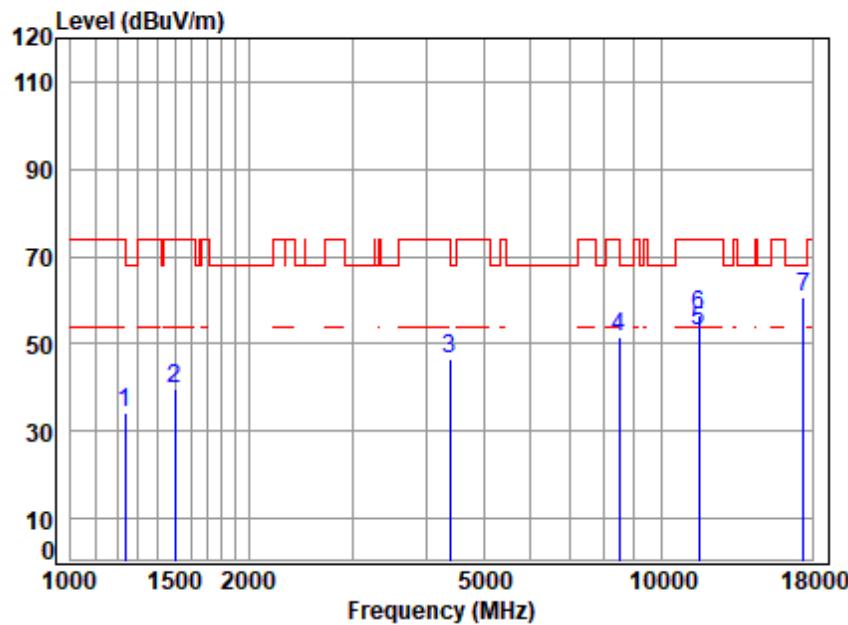
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1249.269	2.77	24.81	40.32	46.86	34.12	68.20	-34.08	peak
2 1498.781	2.98	25.80	40.51	49.33	37.60	74.00	-36.40	peak
3 4121.768	6.02	32.93	42.26	49.21	45.90	74.00	-28.10	peak
4 8613.468	8.87	37.05	40.14	45.03	50.81	68.20	-17.39	peak
5 11590.000	10.59	37.86	38.73	43.02	52.74	74.00	-21.26	peak
6 17385.000	13.46	42.83	40.52	45.21	60.98	68.20	-7.22	peak

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Mode:d; Polarization:Vertical; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5795 TX SE  
Note : 5G WIFI 11AC40

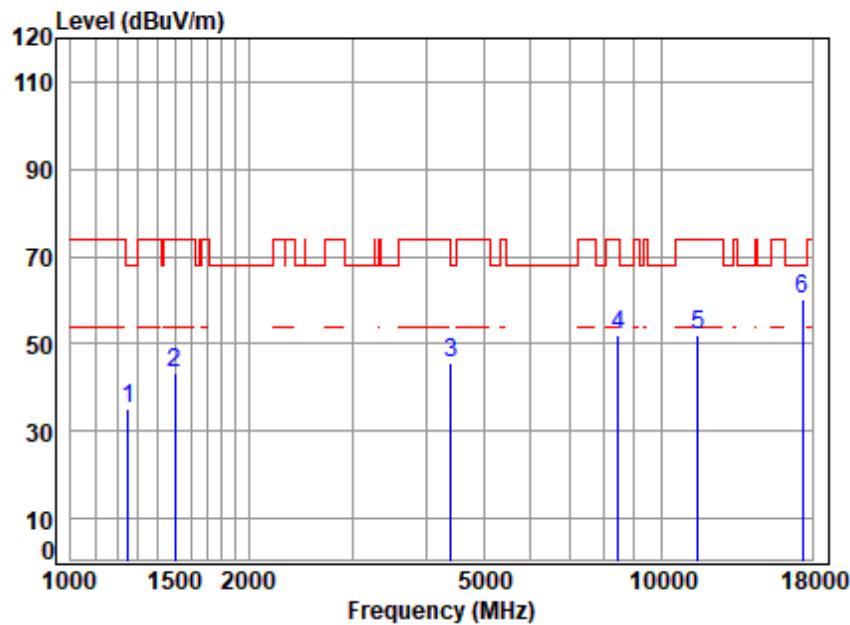
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1238.483	2.74	24.76	40.31	46.91	34.10	74.00	-39.90	peak
2 1498.781	2.98	25.80	40.51	51.54	39.81	74.00	-34.19	peak
3 4392.376	6.66	33.42	42.47	48.98	46.59	74.00	-27.41	peak
4 8489.882	8.59	36.99	40.35	46.54	51.77	74.00	-22.23	peak
5 11590.000	10.59	37.86	38.73	43.03	52.75	54.00	-1.25	Average
6 11590.000	10.59	37.86	38.73	47.03	56.75	74.00	-17.25	peak
7 17385.000	13.46	42.83	40.52	44.97	60.74	68.20	-7.46	peak

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Mode:d; Polarization:Horizontal; Modulation:802.11ac; bandwidth:80MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5775 TX SE  
Note : 5G WIFI 11AC80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1249.269	2.77	24.81	40.32	47.87	35.13	68.20	-33.07	peak
2 1498.781	2.98	25.80	40.51	55.19	43.46	74.00	-30.54	peak
3 4405.090	6.67	33.44	42.48	47.95	45.58	68.20	-22.62	peak
4 8465.379	8.52	36.98	40.39	46.85	51.96	74.00	-22.04	peak
5 11550.000	10.74	37.88	38.71	42.21	52.12	74.00	-21.88	peak
6 17325.000	14.28	42.80	40.52	43.85	60.41	68.20	-7.79	peak

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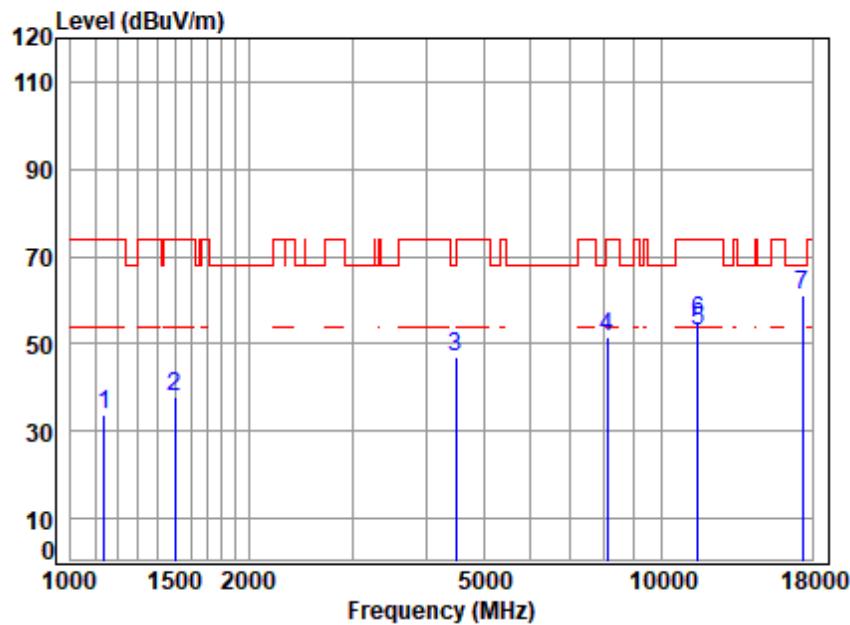
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Mode:d; Polarization:Vertical; Modulation:802.11ac; bandwidth:80MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5775 TX SE  
Note : 5G WIFI 11AC80

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
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	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1138.904	2.37	24.31	40.23	47.20	33.65	74.00	-40.35 peak
2	1498.781	2.98	25.80	40.51	49.75	38.02	74.00	-35.98 peak
3	4495.125	6.39	33.59	42.55	49.48	46.91	68.20	-21.29 peak
4	8106.200	8.43	36.77	41.01	47.25	51.44	74.00	-22.56 peak
5	11550.000	10.74	37.88	38.71	42.91	52.82	54.00	-1.18 Average
6	11550.000	10.74	37.88	38.71	45.28	55.19	74.00	-18.81 peak
7	17325.000	14.28	42.80	40.52	44.78	61.34	68.20	-6.86 peak

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**7.8 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

Measurement Distance: 3m

Limit:	
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 (68.2dBuV/m).
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 (68.2dBuV/m).
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 (68.2dBuV/m).
For transmitters operating in the 5.725-5.85 GHz band:	(i) All emissions shall be limited to a level of -27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) 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 (110.8dBuV/m) 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 (122.2dBuV/m) at the band edge.

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

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

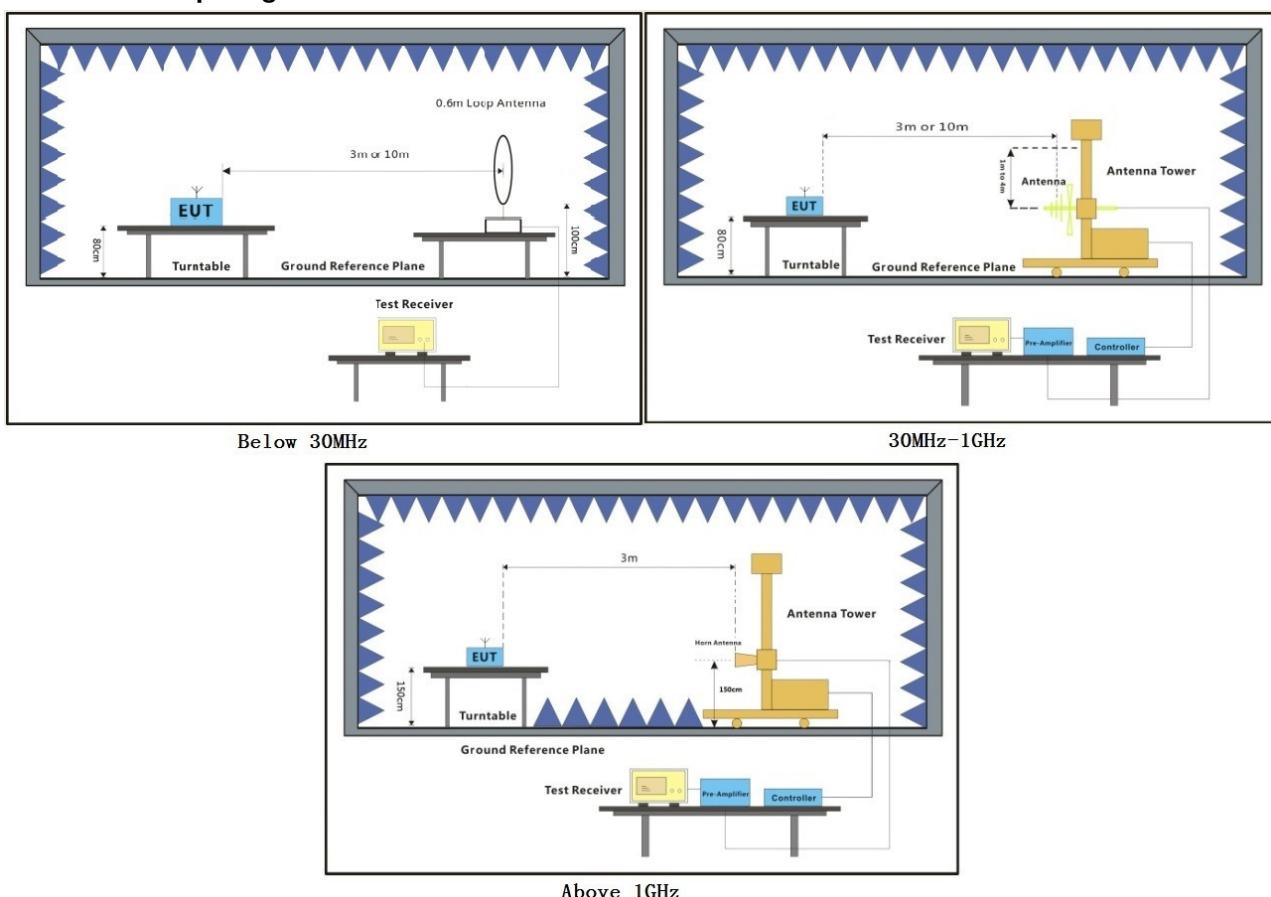
Operating Environment:

Temperature: 25 °C      Humidity: 55 % RH      Atmospheric Pressure: 1010 mbar

Test mode: c:TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d:TX mode (Band 3)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

### 7.8.2 Test Setup Diagram



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### 7.8.3 Measurement Procedure and Data

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

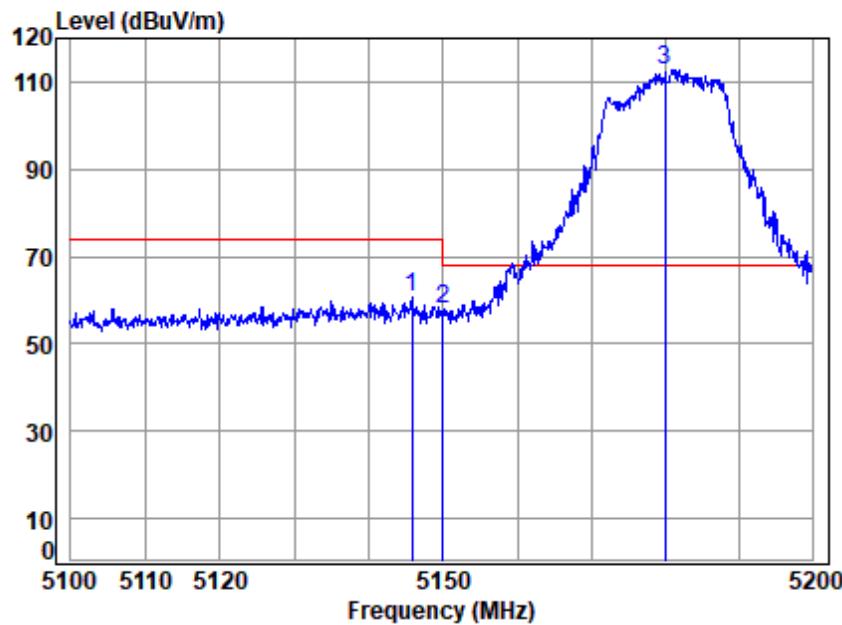
Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, 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) 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.
- 5) Pretest the EUT at antenna 1, antenna 2, antenna 3 and antenna 4, found the antenna 3 which is worst case for 802.11a mode, Pretest the EUT at antenna 1, antenna 2, antenna 3, antenna 4 and MIMO mode, found the MIMO mode which is worst case for 802.11n/ac mode; So, Only the worst test data is recorded in the report.

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Mode:c; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5180 Band edge  
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Limit Line	Over	Remark
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dB	
1 5145.759	6.81	34.32	42.80	62.21	60.54	74.00	-13.46	peak
2 5149.980	6.81	34.32	42.79	59.40	57.74	74.00	-16.26	peak
3 * 5180.000	6.81	34.35	42.77	114.38	112.77	68.20	44.57	peak

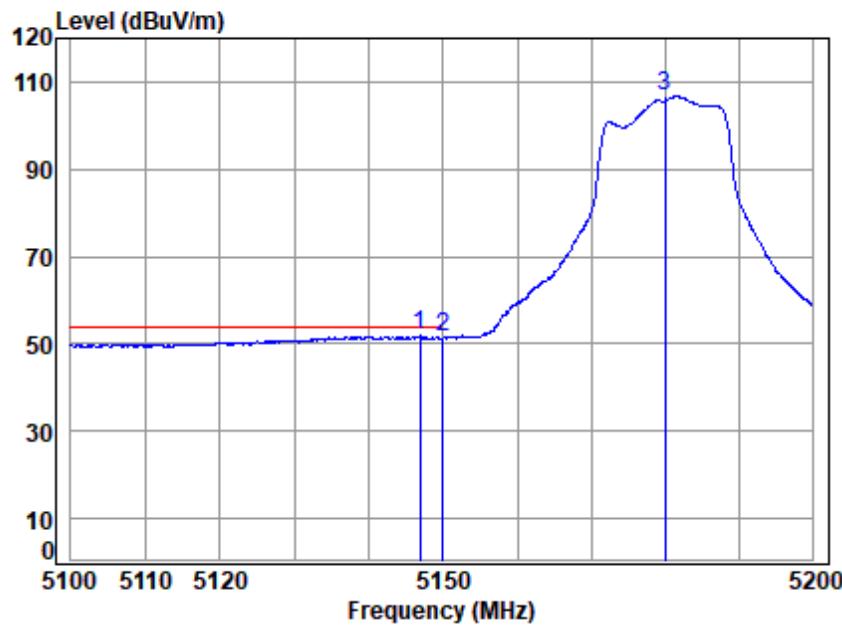
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Mode:c; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5180 Band edge  
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 5146.858	6.81	34.32	42.80	53.55	51.88	54.00	-2.12	Average
2 5149.980	6.81	34.32	42.79	53.10	51.44	54.00	-2.56	Average
3 5180.000	6.81	34.35	42.77	108.23	106.62	-----	-----	Average

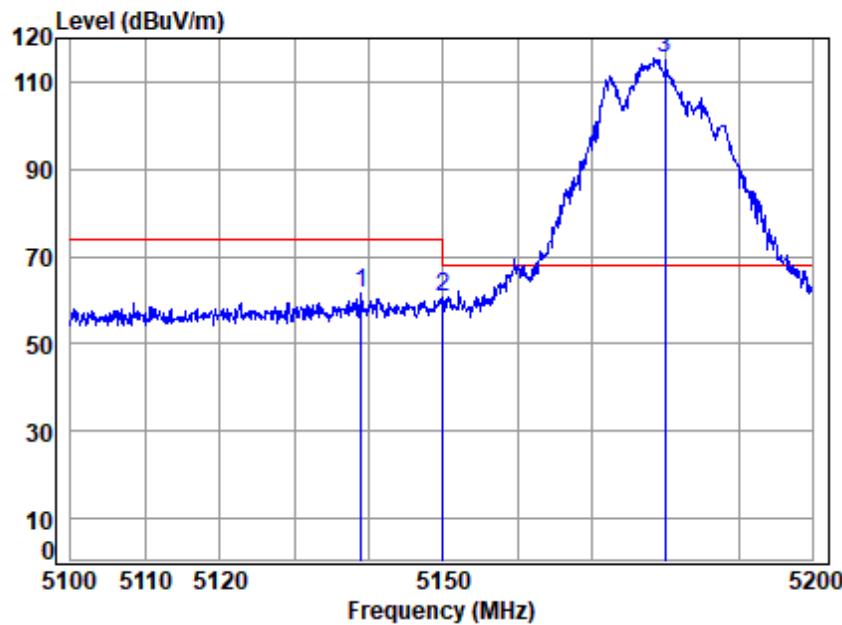
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Mode:c; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5180 Band edge  
: 5G WIFI 11A

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Over Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5138.969	6.81	34.32	42.80	63.12	61.45	74.00	-12.55	peak
2	5149.980	6.81	34.32	42.79	62.21	60.55	74.00	-13.45	peak
3 *	5180.000	6.81	34.35	42.77	117.10	115.49	68.20	47.29	peak

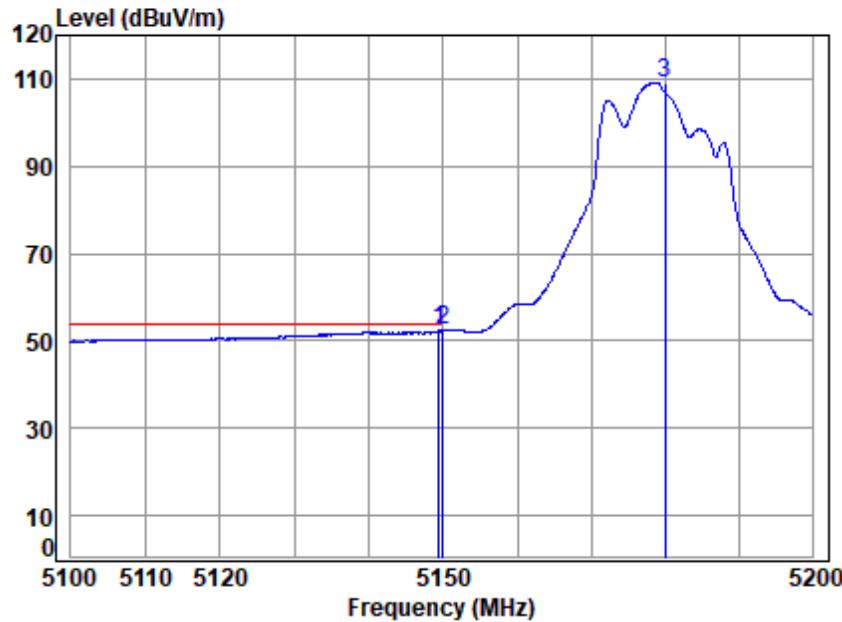
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Mode:c; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5180 Band edge  
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	
1 5149.458	6.81	34.32	42.79	53.91	52.25	54.00	-1.75	Average
2 5149.980	6.81	34.32	42.79	54.01	52.35	54.00	-1.65	Average
3 5180.000	6.81	34.35	42.77	110.76	109.15	-----	-----	Average

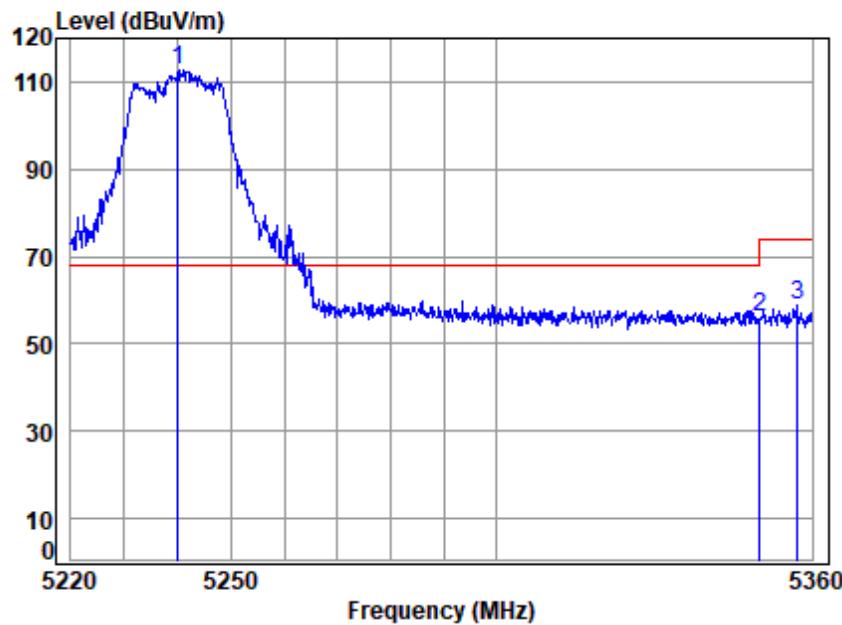
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Mode:c; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5240 Band edge  
: 5G WIFI 11A

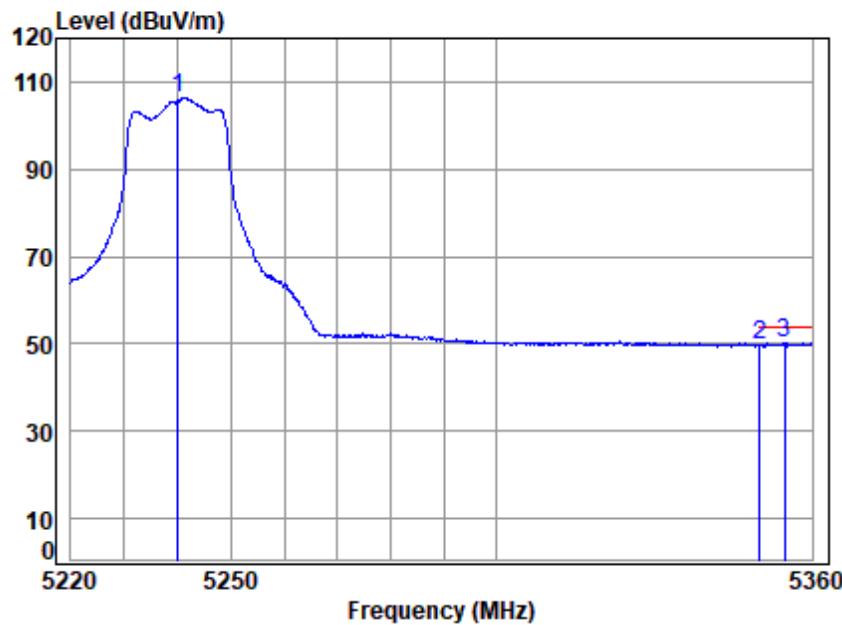
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 * 5240.000	6.91	34.40	42.73	114.18	112.76	68.20	44.56	peak
2 5350.020	7.08	34.48	42.66	57.43	56.33	74.00	-17.67	peak
3 5357.164	7.08	34.49	42.65	59.88	58.80	74.00	-15.20	peak

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Mode:c; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5240 Band edge  
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dBuV	dBuV/m	dB
1 5240.000	6.91	34.40	42.73	107.76	106.34	-----	-----	Average
2 5350.020	7.08	34.48	42.66	50.77	49.67	54.00	-4.33	Average
3 5354.754	7.08	34.49	42.65	51.16	50.08	54.00	-3.92	Average

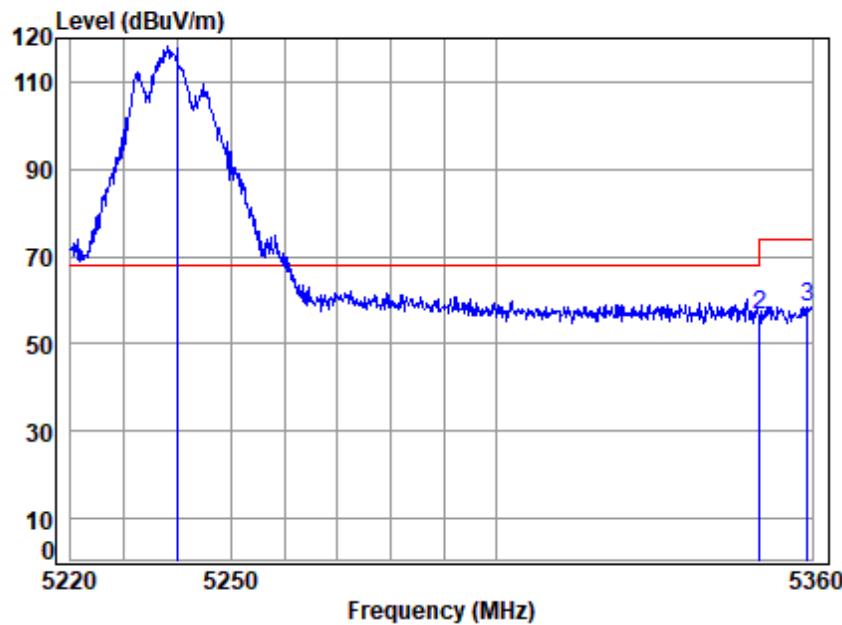
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Mode:c; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5240 Band edge  
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	
1 * 5240.000	6.91	34.40	42.73	119.38	117.96	68.20	49.76	peak
2 5350.020	7.08	34.48	42.66	57.51	56.41	74.00	-17.59	peak
3 5359.149	7.08	34.49	42.65	59.69	58.61	74.00	-15.39	peak

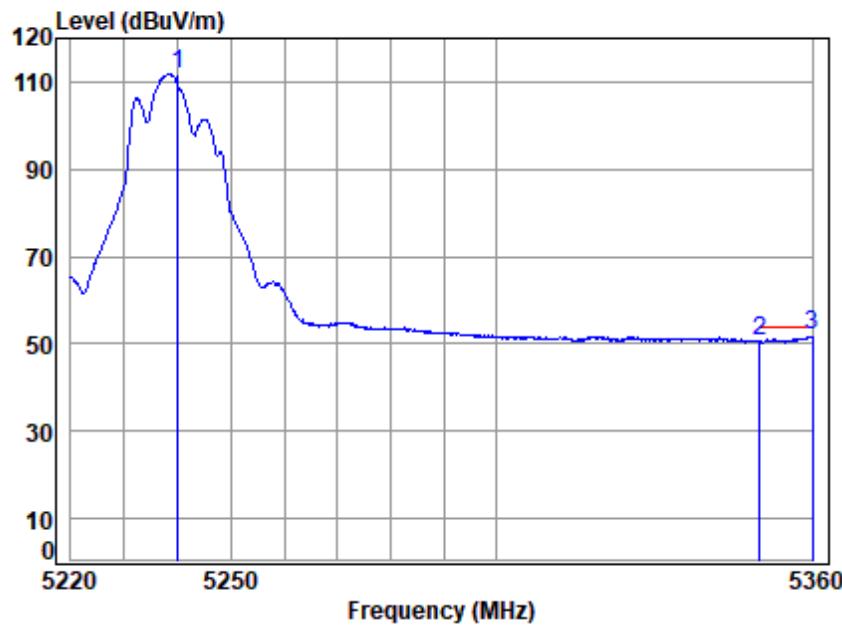
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Mode:c; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5240 Band edge  
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	6.91	34.40	42.73	113.11	111.69	-----	-----	Average
2	5350.020	7.08	34.48	42.66	51.63	50.53	54.00	-3.47	Average
3	5360.000	7.08	34.49	42.65	52.95	51.87	54.00	-2.13	Average

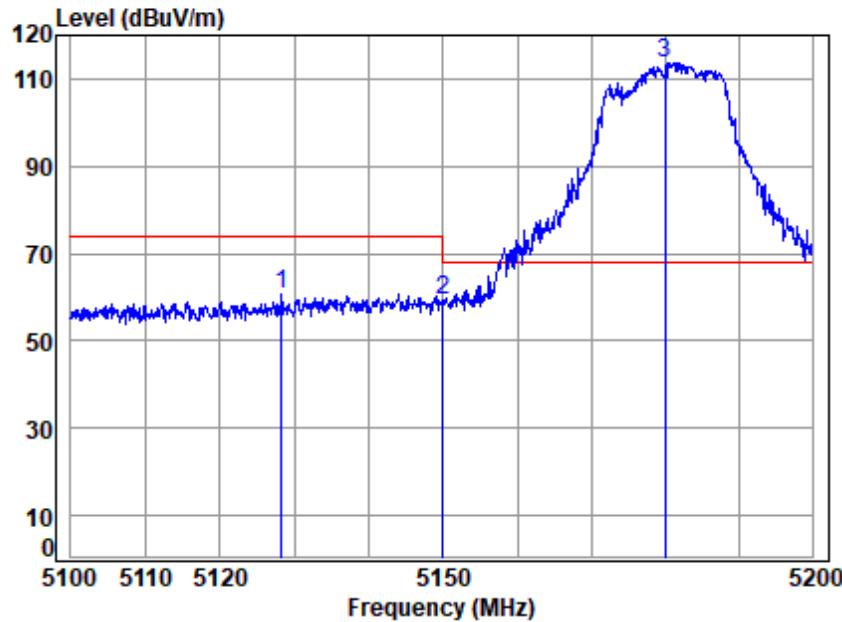
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Mode:c; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5180 Band edge  
: 5G WIFI 11N20

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5128.302	6.81	34.31	42.81	62.28	60.59	74.00	-13.41 peak
2	5149.980	6.81	34.32	42.79	61.06	59.40	74.00	-14.60 peak
3 *	5180.000	6.81	34.35	42.77	115.35	113.74	68.20	45.54 peak



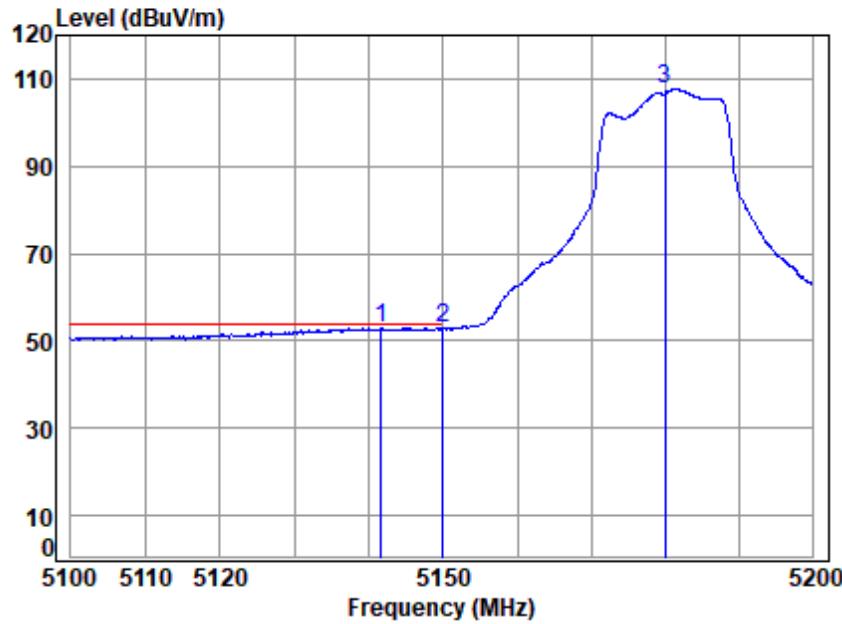
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Mode:c; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5180 Band edge  
: 5G WIFI 11N20

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5141.664	6.81	34.32	42.80	54.73	53.06	54.00	-0.94	Average
2	5149.980	6.81	34.32	42.79	54.48	52.82	54.00	-1.18	Average
3	5180.000	6.81	34.35	42.77	109.23	107.62	-----	-----	Average

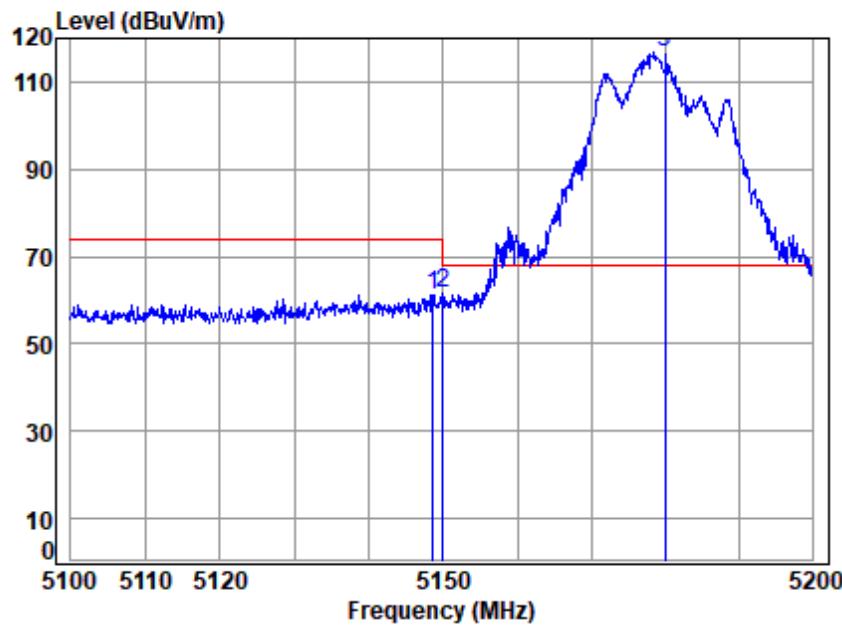
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Mode:c; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5180 Band edge  
: 5G WIFI 11N20

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.657	6.81	34.32	42.79	62.73	61.07	74.00	-12.93	peak
2	5149.980	6.81	34.32	42.79	63.24	61.58	74.00	-12.42	peak
3 *	5180.000	6.81	34.35	42.77	118.19	116.58	68.20	48.38	peak

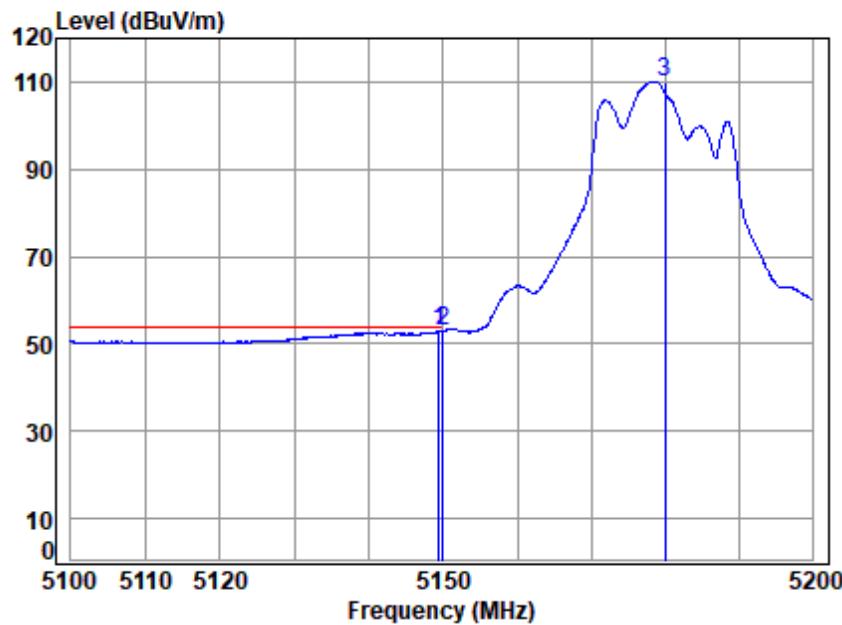
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Mode:c; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5180 Band edge  
: 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	
1	5149.458	6.81	34.32	42.79	54.60	52.94	54.00	-1.06 Average
2	5149.980	6.81	34.32	42.79	54.77	53.11	54.00	-0.89 Average
3	5180.000	6.81	34.35	42.77	111.64	110.03	-----	----- Average

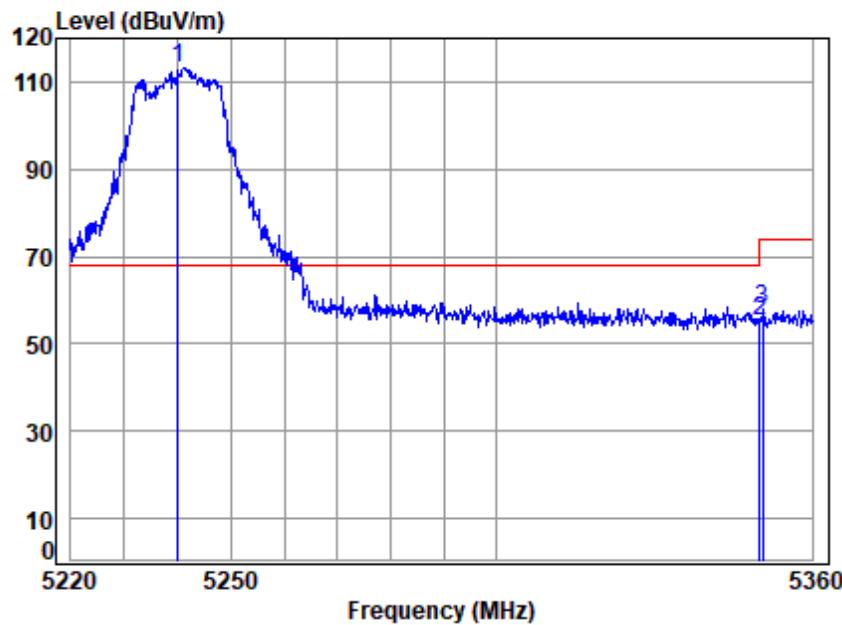
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Mode:c; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5240 Band edge  
: 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 * 5240.000	6.91	34.40	42.73	114.73	113.31	68.20	45.11	peak
2 5350.020	7.08	34.48	42.66	56.47	55.37	74.00	-18.63	peak
3 5350.646	7.08	34.48	42.65	59.18	58.09	74.00	-15.91	peak

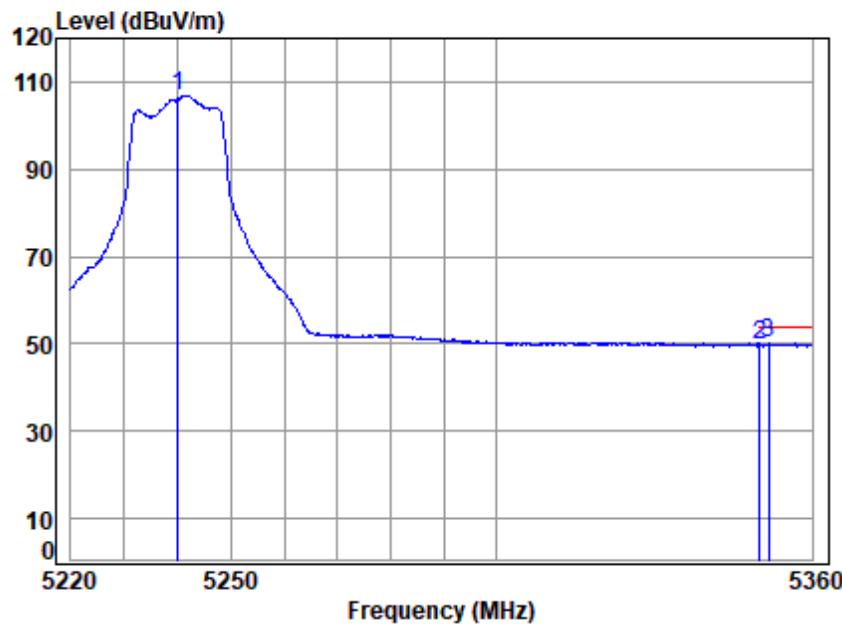
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Mode:c; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5240 Band edge  
: 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 5240.000	6.91	34.40	42.73	108.26	106.84	-----	-----	Average
2 5350.020	7.08	34.48	42.66	50.71	49.61	54.00	-4.39	Average
3 5351.637	7.08	34.49	42.65	51.11	50.03	54.00	-3.97	Average

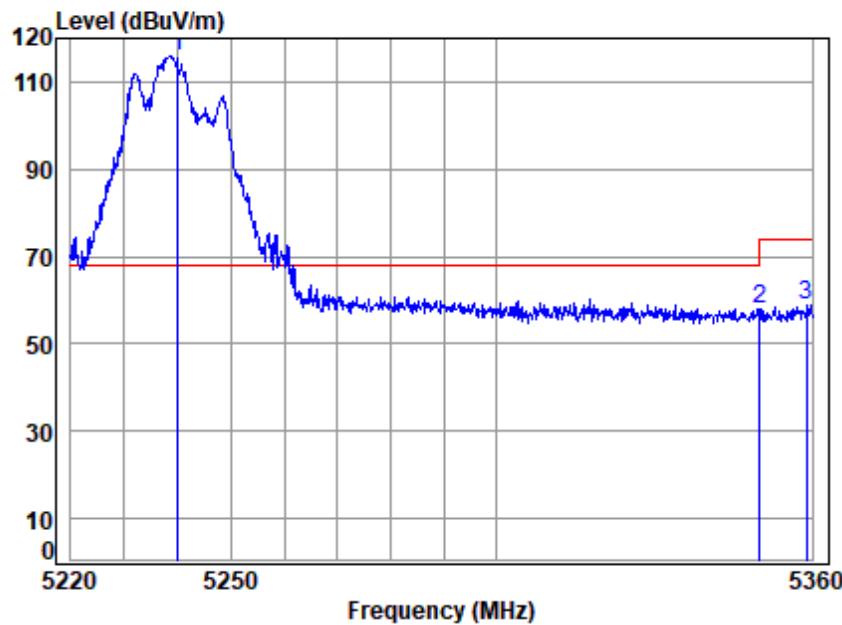
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Mode:c; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5240 Band edge  
: 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Line	Remark	
				dB	dB/m	dB	dBuV	dBuV/m
1 * 5240.000	6.91	34.40	42.73	117.54	116.12	68.20	47.92	peak
2 5350.020	7.08	34.48	42.66	59.00	57.90	74.00	-16.10	peak
3 5359.007	7.08	34.49	42.65	59.93	58.85	74.00	-15.15	peak

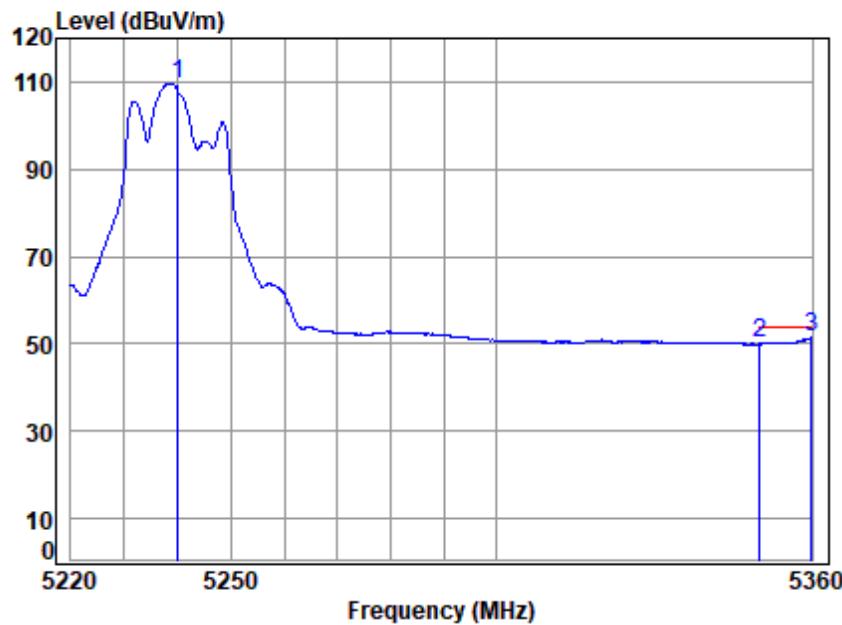
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Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5240 Band edge  
: 5G WIFI 11N20

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	6.91	34.40	42.73	111.13	109.71	-----	Average
2	5350.020	7.08	34.48	42.66	51.11	50.01	54.00	-3.99 Average
3	5359.858	7.08	34.49	42.65	52.65	51.57	54.00	-2.43 Average

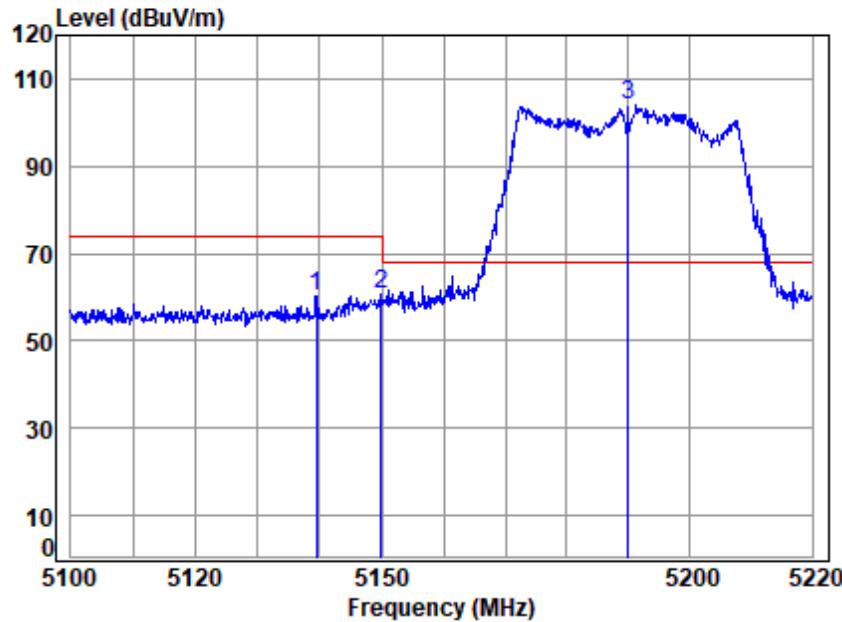
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Mode:c; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5190 Band edge  
: 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	
1 5139.412	6.81	34.32	42.80	61.82	60.15	74.00	-13.85	peak
2 5149.980	6.81	34.32	42.79	62.29	60.63	74.00	-13.37	peak
3 * 5190.000	6.81	34.36	42.77	105.54	103.94	68.20	35.74	peak

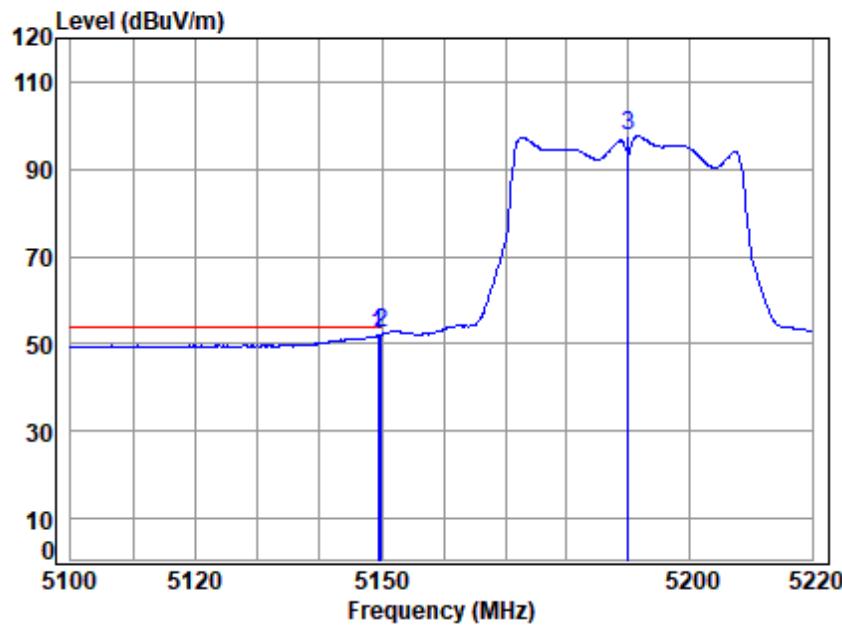
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Mode:c; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5190 Band edge  
: 5G WIFI 11N40

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Over Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.461	6.81	34.32	42.79	53.61	51.95	54.00	-2.05	Average
2	5149.980	6.81	34.32	42.79	54.00	52.34	54.00	-1.66	Average
3	5190.000	6.81	34.36	42.77	99.15	97.55	-----	-----	Average

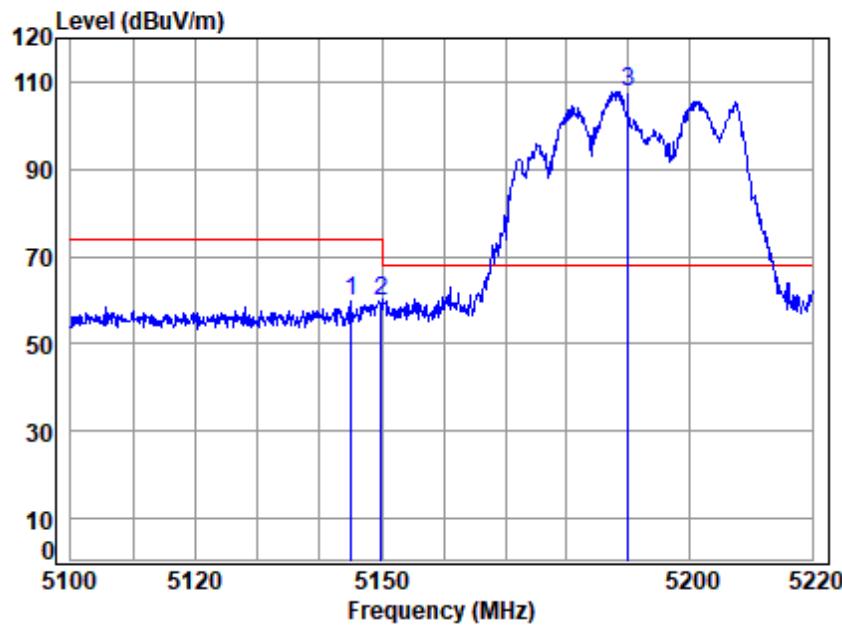
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Mode:c; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5190 Band edge  
: 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	
1 5145.032	6.81	34.32	42.80	61.23	59.56	74.00	-14.44	peak
2 5149.980	6.81	34.32	42.79	61.25	59.59	74.00	-14.41	peak
3 * 5190.000	6.81	34.36	42.77	109.46	107.86	68.20	39.66	peak

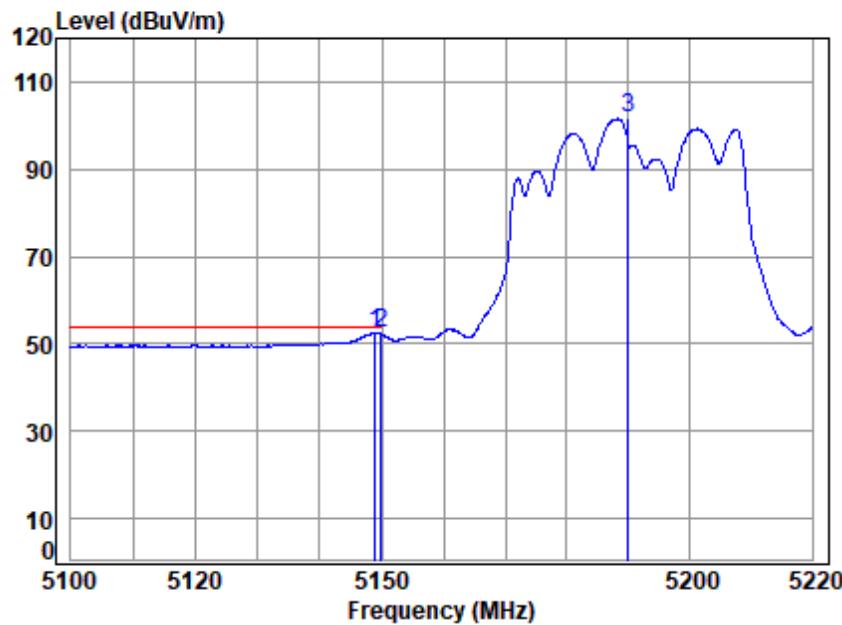
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Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5190 Band edge  
: 5G WIFI 11N40

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Over Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.982	6.81	34.32	42.79	54.11	52.45	54.00	-1.55	Average
2	5149.980	6.81	34.32	42.79	53.97	52.31	54.00	-1.69	Average
3	5190.000	6.81	34.36	42.77	103.13	101.53	-----	-----	Average

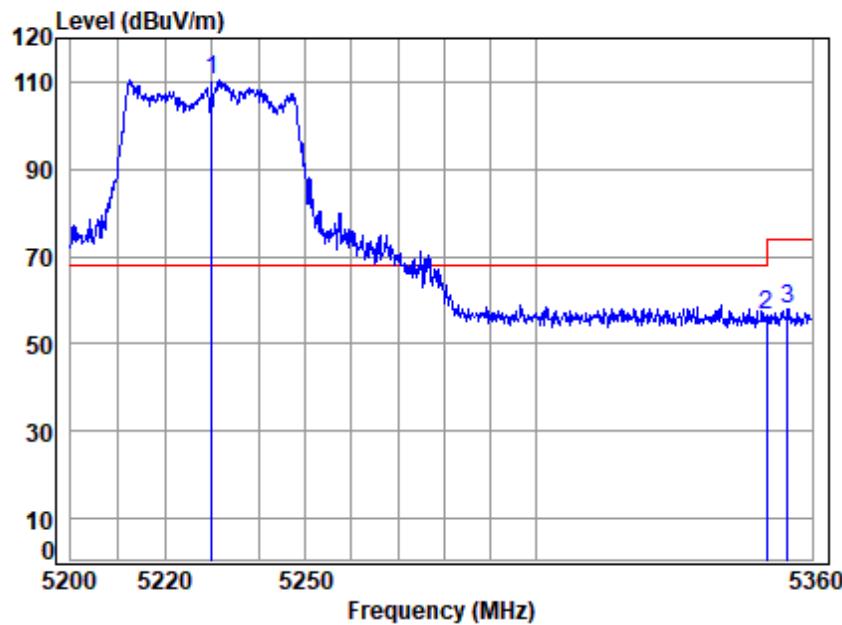
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Mode:c; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5230 Band edge  
: 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 * 5230.000	6.89	34.39	42.74	112.01	110.55	68.20	42.35	peak
2 5350.020	7.08	34.48	42.66	57.45	56.35	74.00	-17.65	peak
3 5354.642	7.08	34.49	42.65	58.90	57.82	74.00	-16.18	peak

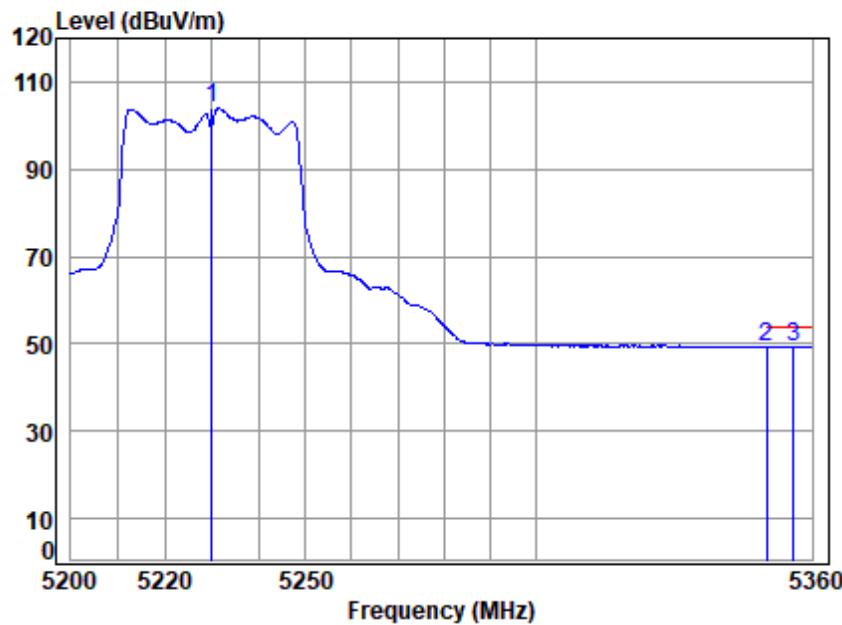
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		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5230.000	6.89	34.39	42.74	105.31	103.85	-----	-----	Average
2	5350.020	7.08	34.48	42.66	50.31	49.21	54.00	-4.79	Average
3	5355.940	7.08	34.49	42.65	50.45	49.37	54.00	-4.63	Average

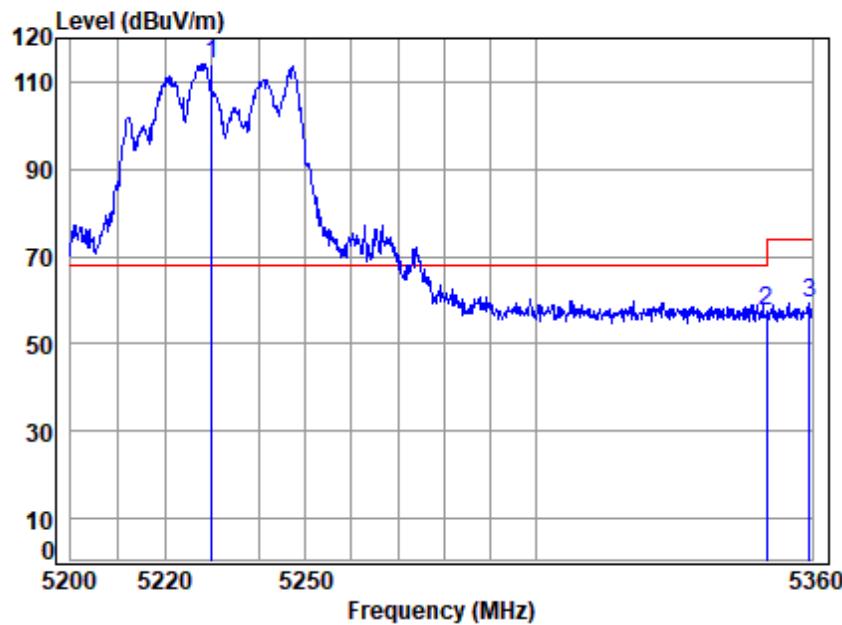
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Mode:c; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5230 Band edge  
: 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 * 5230.000	6.89	34.39	42.74	115.75	114.29	68.20	46.09	peak
2 5350.020	7.08	34.48	42.66	58.37	57.27	74.00	-16.73	peak
3 5359.513	7.08	34.49	42.65	60.38	59.30	74.00	-14.70	peak

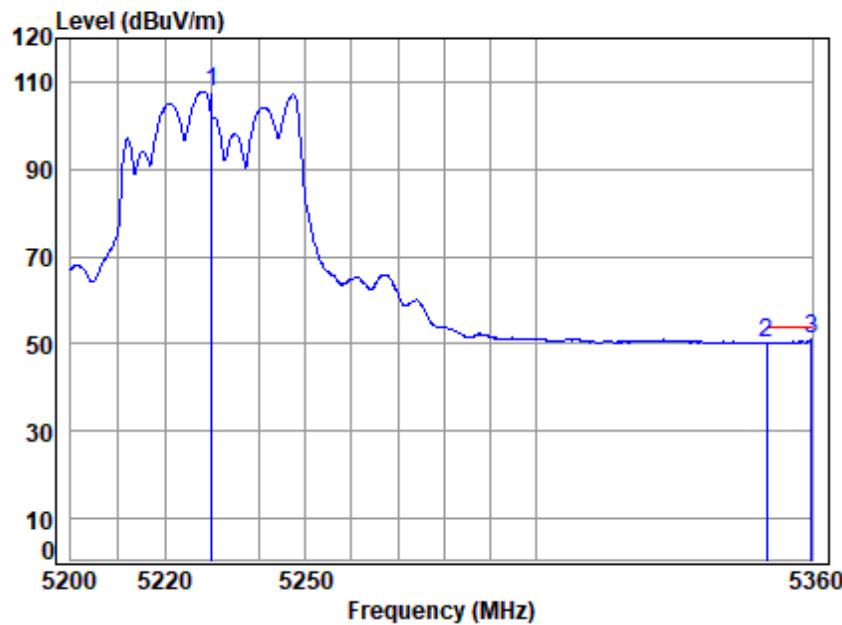
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Mode:c; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5230 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	5230.000	6.89	34.39	42.74	109.32	107.86	-----	Average
2	5350.020	7.08	34.48	42.66	51.31	50.21	54.00	-3.79 Average
3	5359.837	7.08	34.49	42.65	52.00	50.92	54.00	-3.08 Average

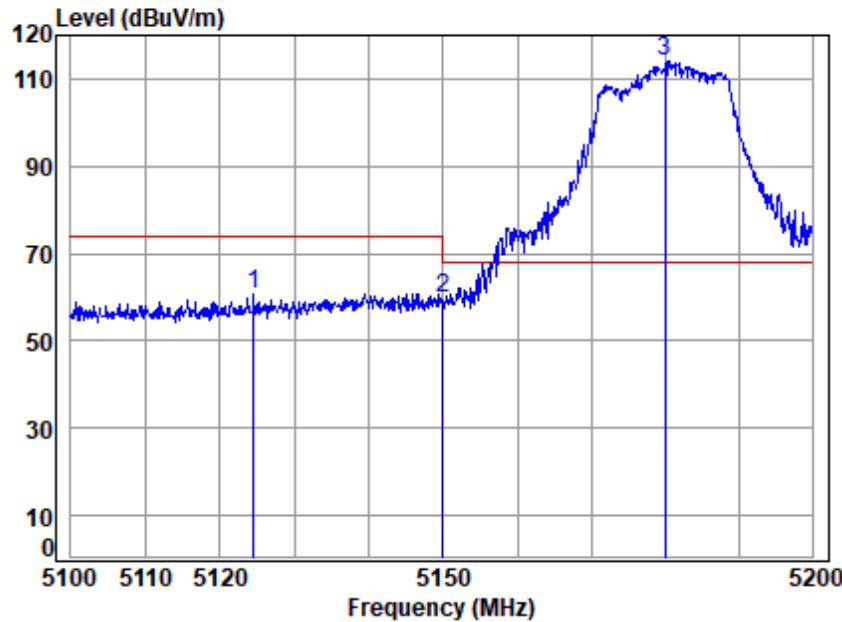
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Mode:c; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5180 Band edge  
: 5G WIFI 11AC20

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5124.520	6.81	34.30	42.81	62.55	60.85	74.00	-13.15	peak
2	5149.980	6.81	34.32	42.79	61.34	59.68	74.00	-14.32	peak
3 *	5180.000	6.81	34.35	42.77	115.73	114.12	68.20	45.92	peak

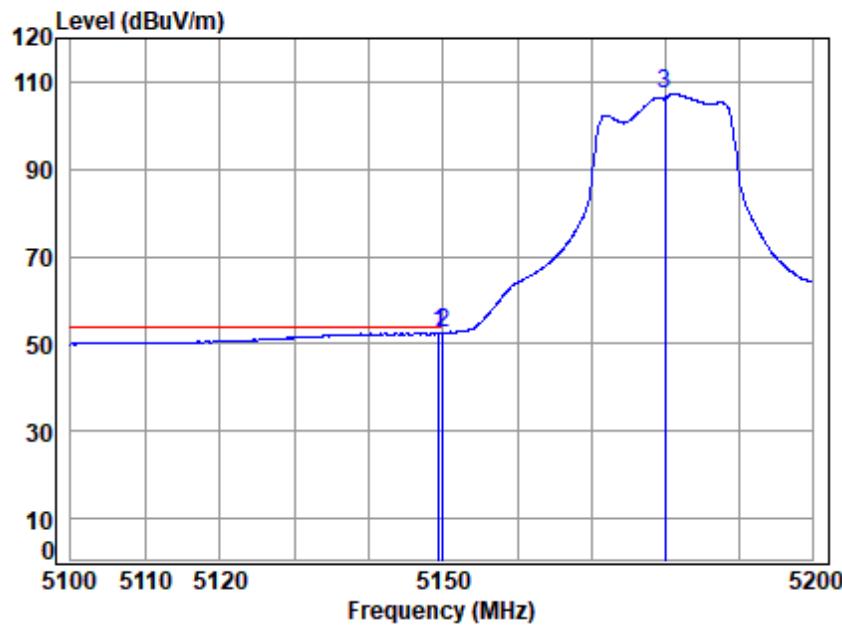
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Mode:c; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5180 Band edge  
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	
1 5149.458	6.81	34.32	42.79	54.12	52.46	54.00	-1.54	Average
2 5149.980	6.81	34.32	42.79	54.19	52.53	54.00	-1.47	Average
3 5180.000	6.81	34.35	42.77	108.94	107.33	-----	-----	Average

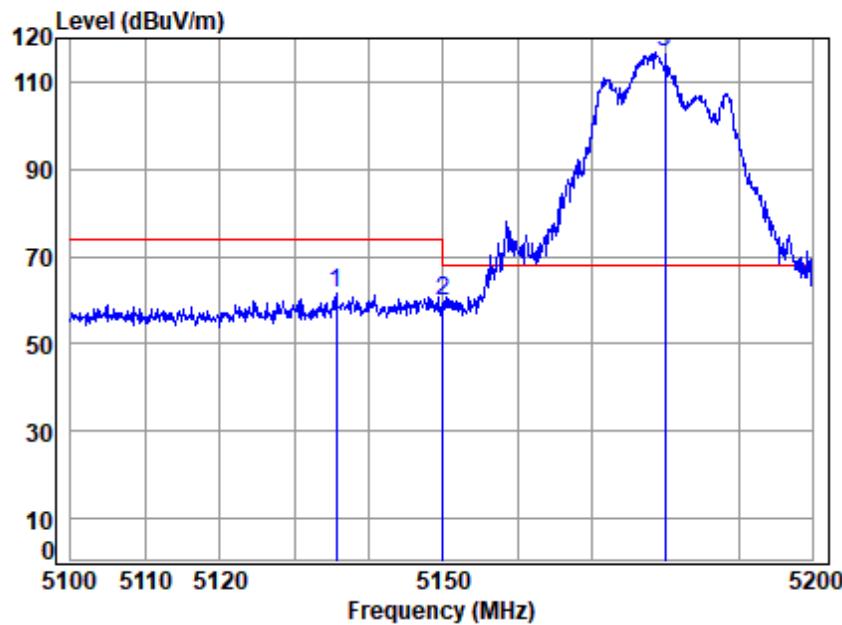
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Mode:c; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5180 Band edge  
: 5G WIFI 11AC20

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5135.577	6.81	34.31	42.80	63.31	61.63	74.00	-12.37	peak
2	5149.980	6.81	34.32	42.79	61.33	59.67	74.00	-14.33	peak
3 *	5180.000	6.81	34.35	42.77	118.21	116.60	68.20	48.40	peak

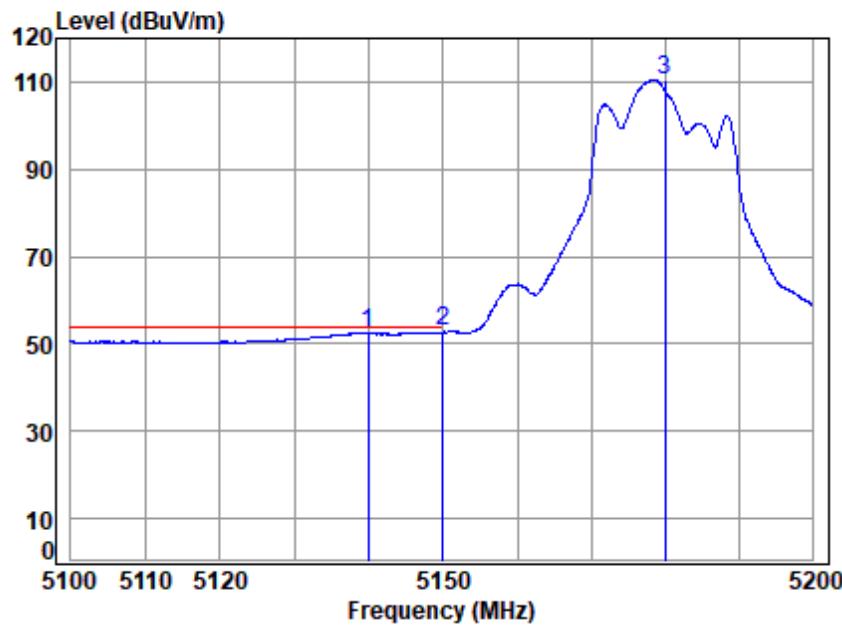
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Mode:c; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5180 Band edge  
: 5G WIFI 11AC20

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Over Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5139.867	6.81	34.32	42.80	54.32	52.65	54.00	-1.35 Average
2	5149.980	6.81	34.32	42.79	54.39	52.73	54.00	-1.27 Average
3	5180.000	6.81	34.35	42.77	111.95	110.34	-----	----- Average

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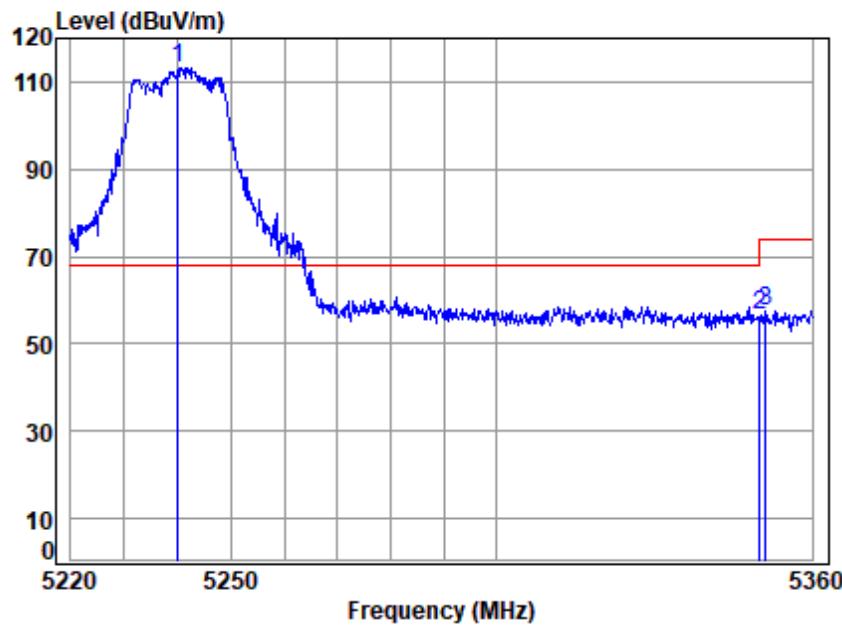
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Mode:c; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5240 Band edge  
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 * 5240.000	6.91	34.40	42.73	114.76	113.34	68.20	45.14	peak
2 5350.020	7.08	34.48	42.66	57.82	56.72	74.00	-17.28	peak
3 5351.212	7.08	34.48	42.65	58.59	57.50	74.00	-16.50	peak

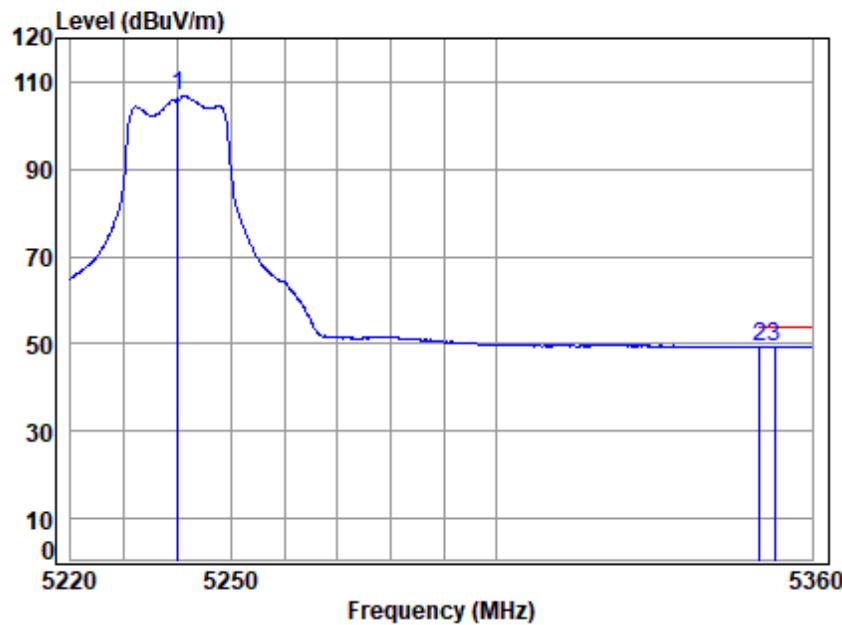
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Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5240 Band edge  
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 5240.000	6.91	34.40	42.73	108.16	106.74	-----	-----	Average
2 5350.020	7.08	34.48	42.66	50.30	49.20	54.00	-4.80	Average
3 5352.912	7.08	34.49	42.65	50.51	49.43	54.00	-4.57	Average

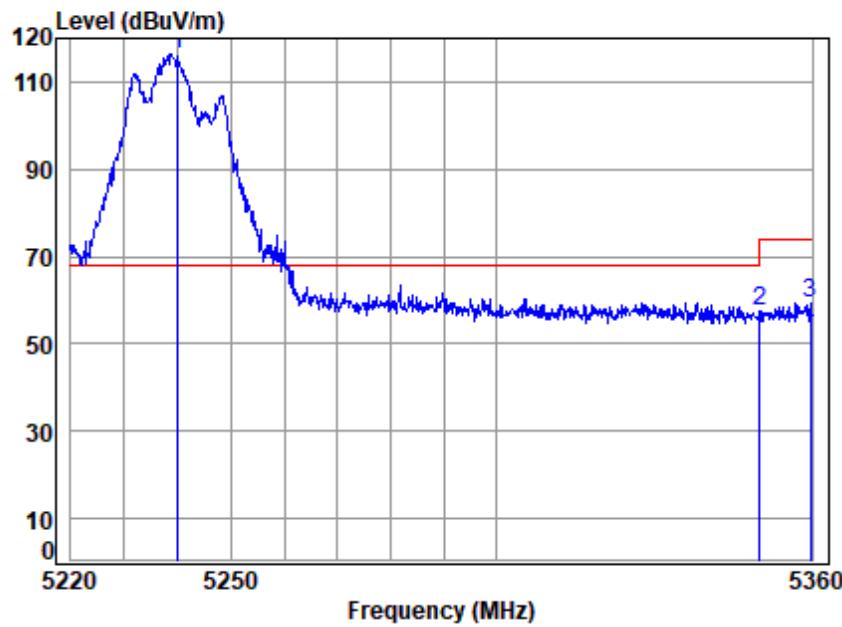
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Mode:c; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5240 Band edge  
: 5G WIFI 11AC20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 * 5240.000	6.91	34.40	42.73	117.72	116.30	68.20	48.10 peak
2 5350.020	7.08	34.48	42.66	58.48	57.38	74.00	-16.62 peak
3 5359.716	7.08	34.49	42.65	60.60	59.52	74.00	-14.48 peak

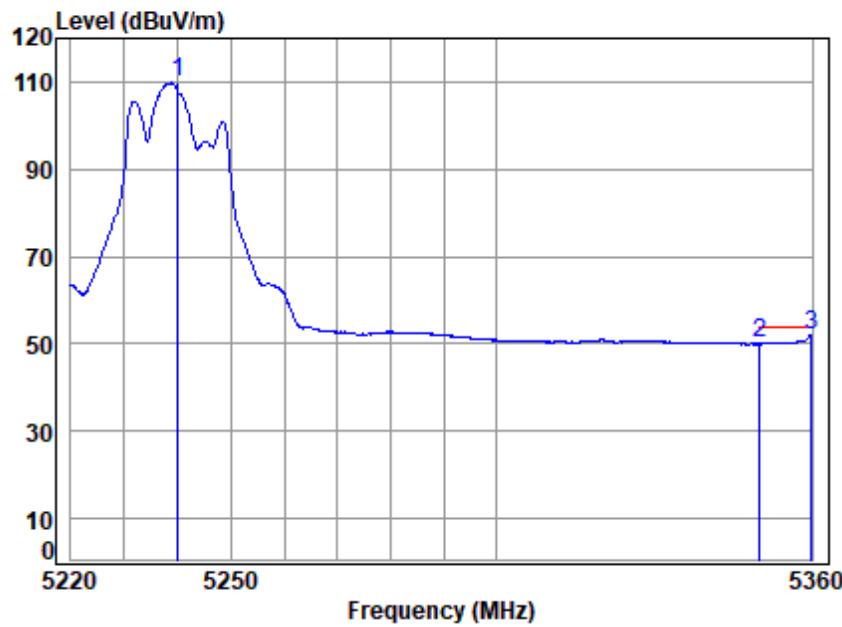
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: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 5240.000	6.91	34.40	42.73	111.17	109.75	-----	-----	Average
2 5350.020	7.08	34.48	42.66	51.12	50.02	54.00	-3.98	Average
3 5359.858	7.08	34.49	42.65	52.96	51.88	54.00	-2.12	Average

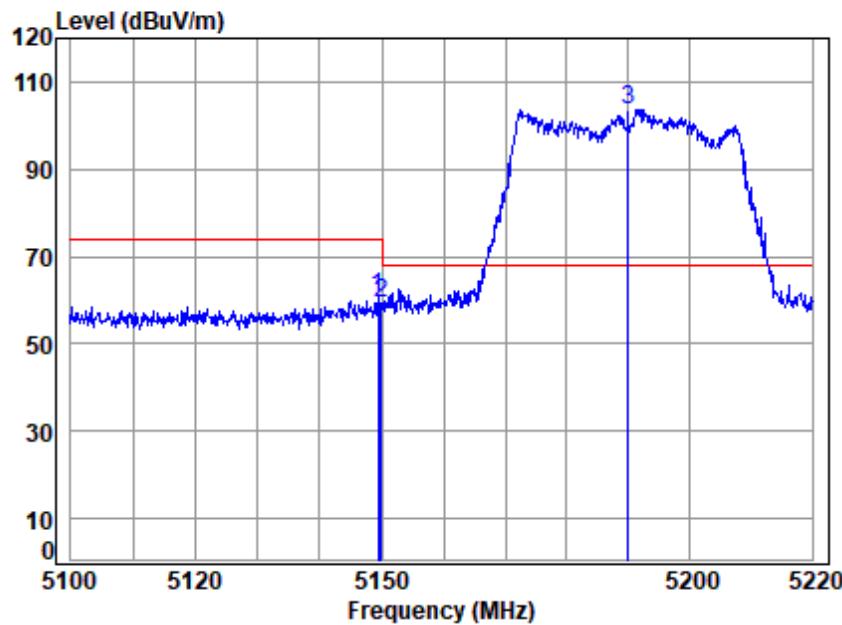
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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Mode:c; Polarization:Horizontal; Modulation:802.11ac; bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5190 Band edge  
: 5G WIFI 11AC40

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.461	6.81	34.32	42.79	62.56	60.90	74.00	-13.10	peak
2	5149.980	6.81	34.32	42.79	61.10	59.44	74.00	-14.56	peak
3 *	5190.000	6.81	34.36	42.77	105.32	103.72	68.20	35.52	peak

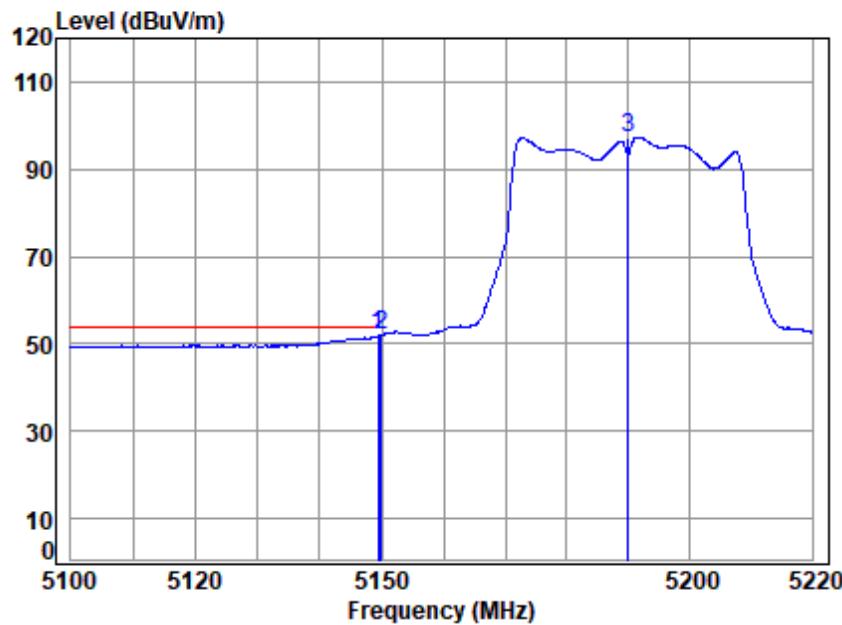
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Mode:c; Polarization:Horizontal; Modulation:802.11ac; bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5190 Band edge  
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 5149.461	6.81	34.32	42.79	53.46	51.80	54.00	-2.20	Average
2 5149.980	6.81	34.32	42.79	53.80	52.14	54.00	-1.86	Average
3 5190.000	6.81	34.36	42.77	99.01	97.41	-----	-----	Average

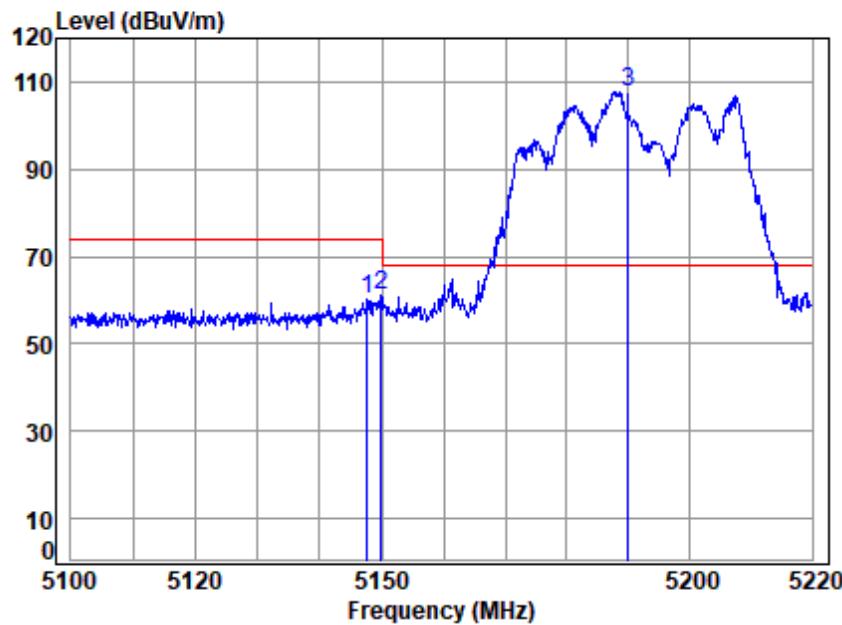
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Mode:c; Polarization:Vertical; Modulation:802.11ac; bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5190 Band edge  
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	
1 5147.666	6.81	34.32	42.79	61.68	60.02	74.00	-13.98	peak
2 5149.980	6.81	34.32	42.79	62.69	61.03	74.00	-12.97	peak
3 * 5190.000	6.81	34.36	42.77	109.26	107.66	68.20	39.46	peak

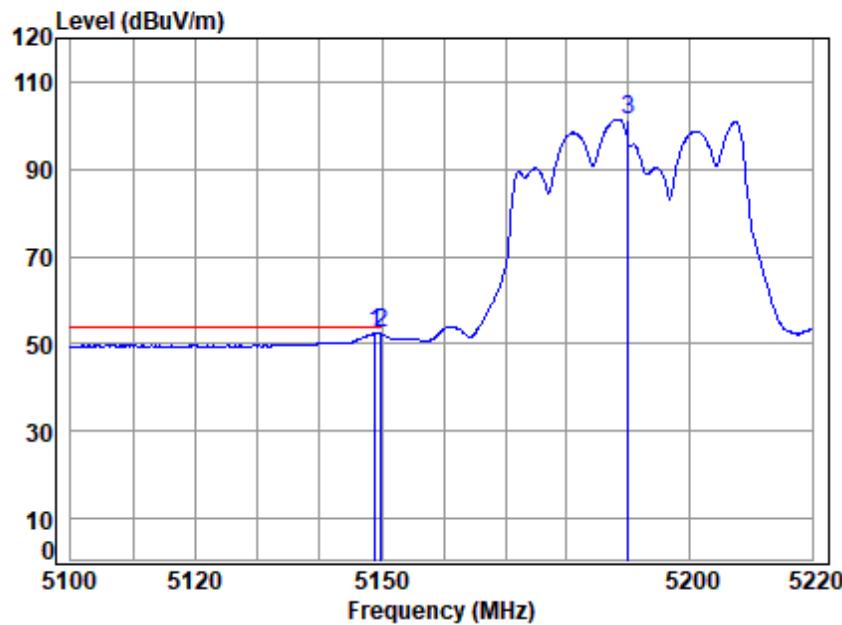
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Mode:c; Polarization:Vertical; Modulation:802.11ac; bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5190 Band edge  
: 5G WIFI 11AC40

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Over Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.982	6.81	34.32	42.79	54.12	52.46	54.00	-1.54	Average
2	5149.980	6.81	34.32	42.79	53.93	52.27	54.00	-1.73	Average
3	5190.000	6.81	34.36	42.77	102.99	101.39	-----	-----	Average

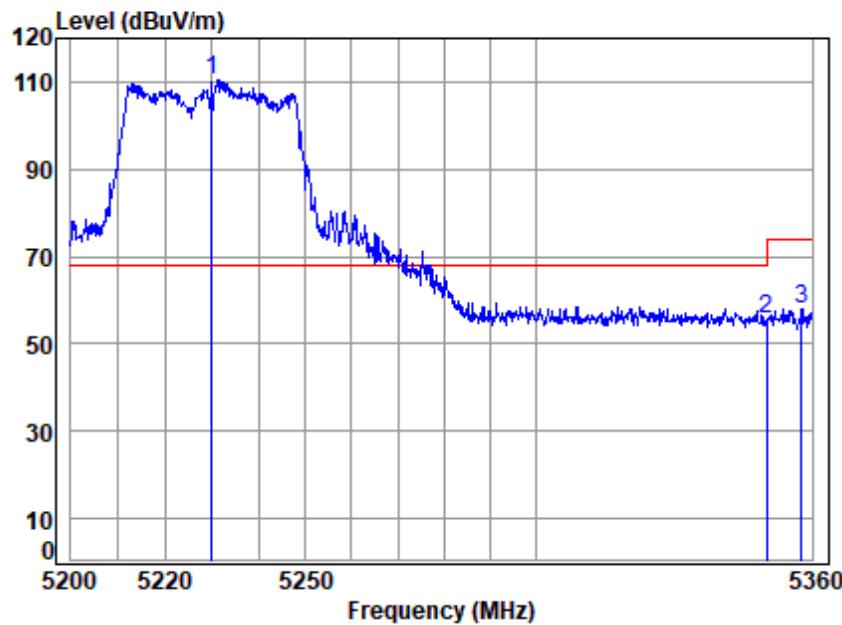
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Mode:c; Polarization:Horizontal; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5230 Band edge  
: 5G WIFI 11AC40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 * 5230.000	6.89	34.39	42.74	111.99	110.53	68.20	42.33 peak
2 5350.020	7.08	34.48	42.66	56.59	55.49	74.00	-18.51 peak
3 5357.727	7.08	34.49	42.65	59.13	58.05	74.00	-15.95 peak

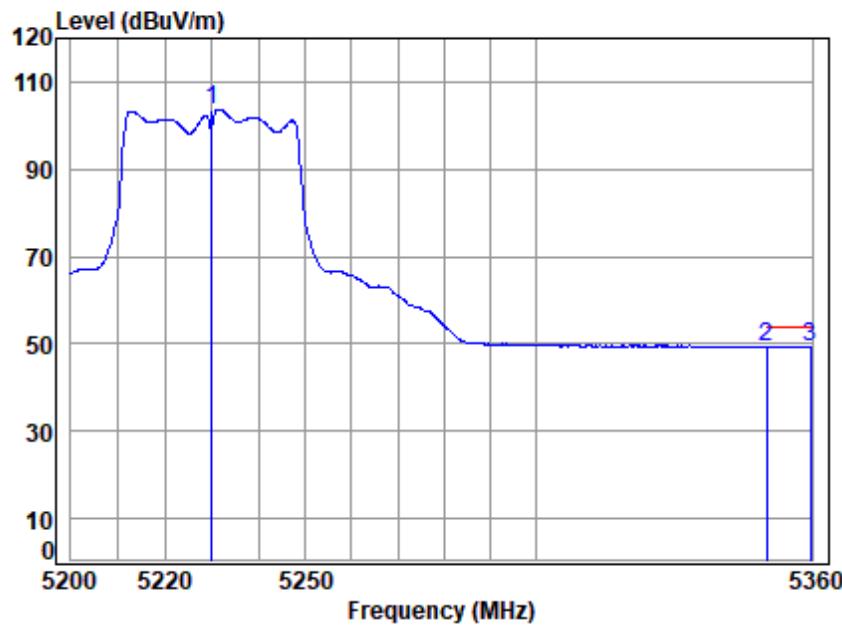
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Mode:c; Polarization:Horizontal; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5230 Band edge  
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	5230.000	6.89	34.39	42.74	105.25	103.79	-----	-----	Average
2	5350.020	7.08	34.48	42.66	50.45	49.35	54.00	-4.65	Average
3	5359.675	7.08	34.49	42.65	50.48	49.40	54.00	-4.60	Average

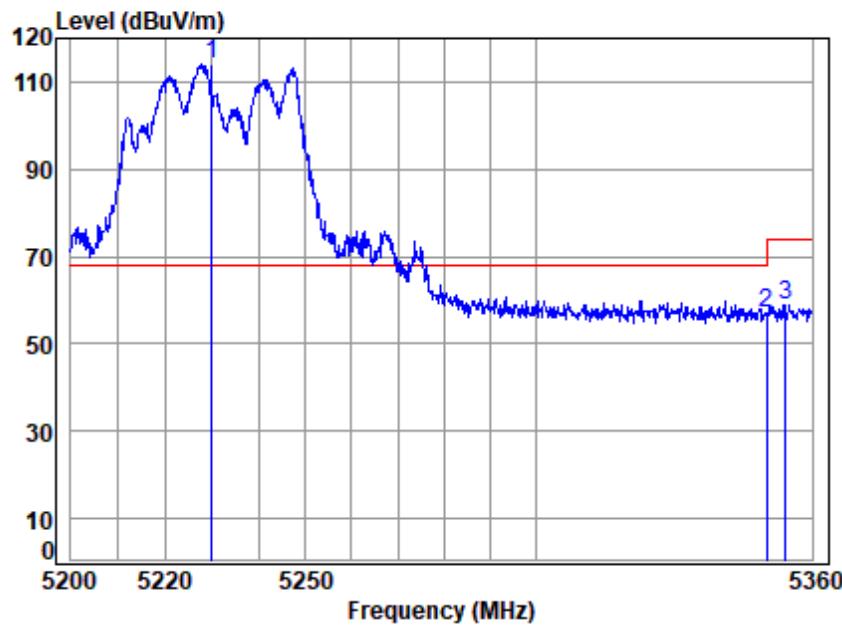
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Mode:c; Polarization:Vertical; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL

Job No : 03945CR

Mode : 5230 Band edge  
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Line	Remark			
				dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dBuV/m
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB
1 * 5230.000	6.89	34.39	42.74	115.42	113.96	68.20	45.76	45.76	45.76	peak
2 5350.020	7.08	34.48	42.66	58.19	57.09	74.00	-16.91	-16.91	-16.91	peak
3 5354.155	7.08	34.49	42.65	60.10	59.02	74.00	-14.98	-14.98	-14.98	peak

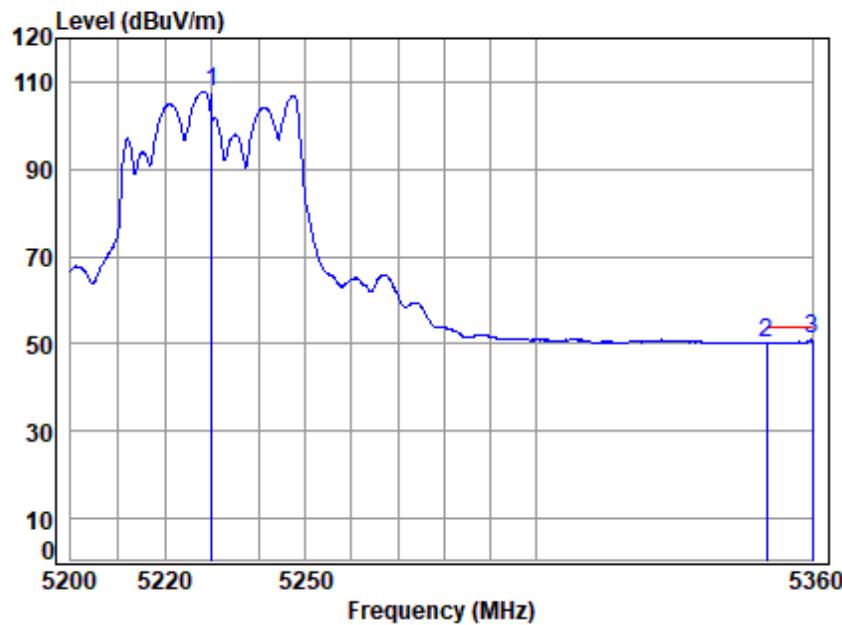
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Mode:c; Polarization:Vertical; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 03945CR

Mode : 5230 Band edge  
: 5G WIFI 11AC40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5230.000	6.89	34.39	42.74	109.19	107.73	-----	Average
2	5350.020	7.08	34.48	42.66	51.46	50.36	54.00	-3.64 Average
3	5360.000	7.08	34.49	42.65	52.04	50.96	54.00	-3.04 Average

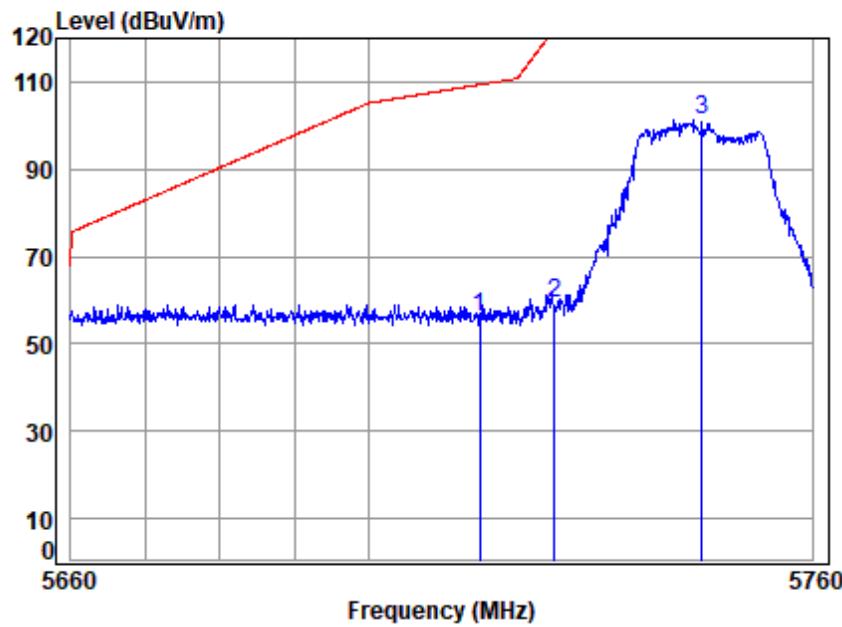
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Mode:d; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5745 Band edge  
: 5G WIFI 11A

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	7.22	34.82	42.42	56.33	55.95	109.40	-53.45	peak
2	5725.000	7.19	34.83	42.41	59.68	59.29	122.20	-62.91	peak
3	5745.000	7.14	34.85	42.40	101.60	101.19	125.20	-24.01	peak

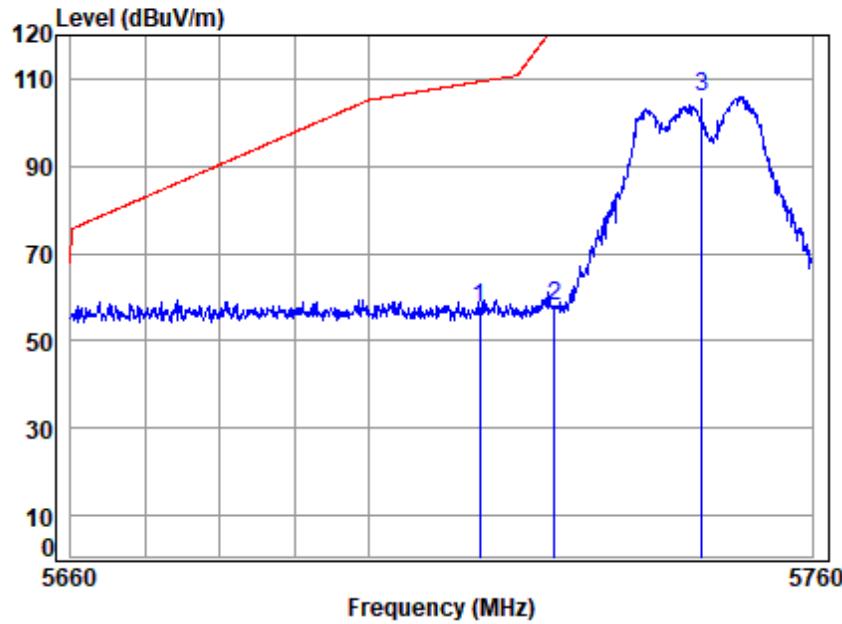
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Mode:d; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 03945CR

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	7.22	34.82	42.42	57.97	57.59	109.40	-51.81 peak
2 5725.000	7.19	34.83	42.41	58.53	58.14	122.20	-64.06 peak
3 5745.000	7.14	34.85	42.40	106.23	105.82	125.20	-19.38 peak

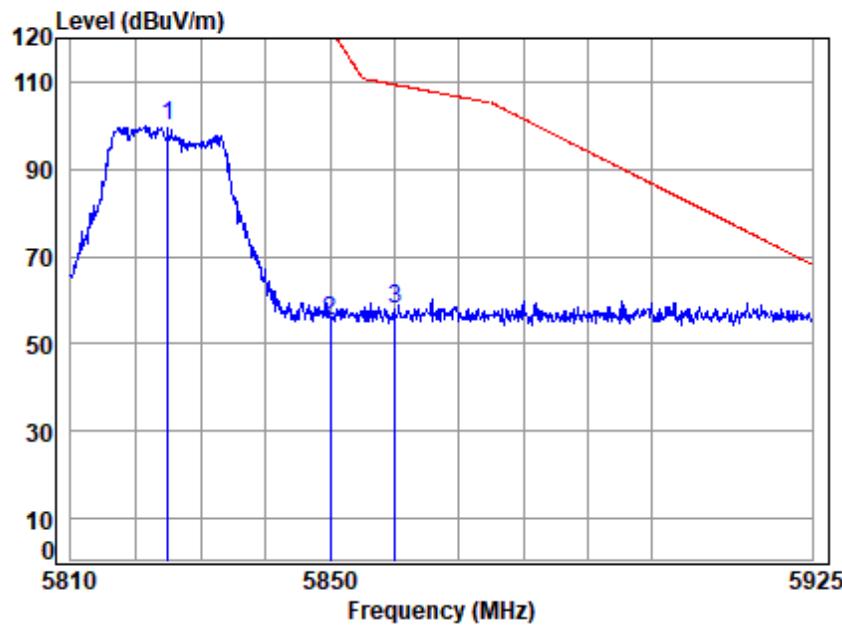
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Mode:d; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5825 Band edge  
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	
1 5825.000	7.03	34.93	42.35	100.18	99.79	125.20	-25.41	peak
2 5850.000	7.06	34.95	42.33	55.72	55.40	122.20	-66.80	peak
3 5860.000	7.07	34.96	42.33	58.03	57.73	109.40	-51.67	peak



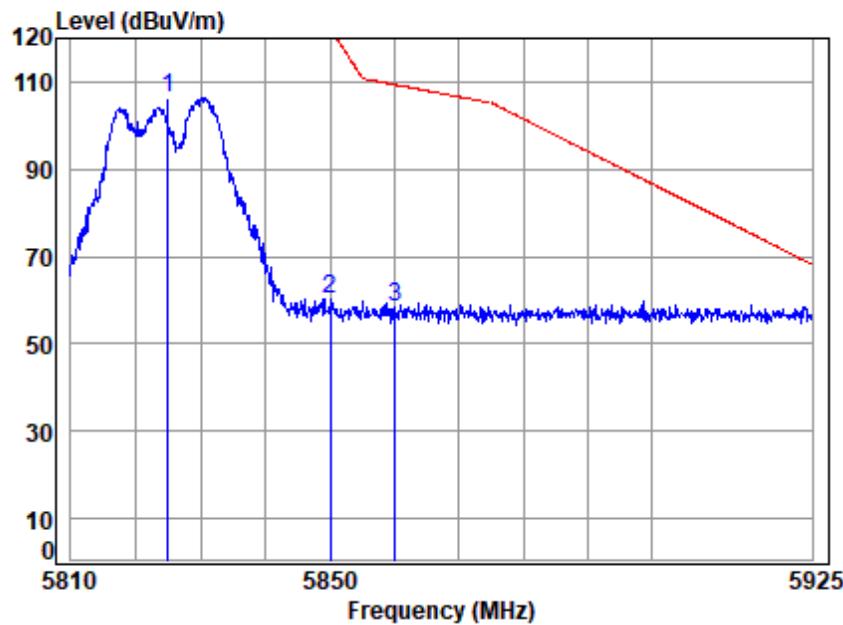
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Mode:d; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5825 Band edge  
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	
1 5825.000	7.03	34.93	42.35	106.85	106.46	125.20	-18.74	peak
2 5850.000	7.06	34.95	42.33	60.57	60.25	122.20	-61.95	peak
3 5860.000	7.07	34.96	42.33	58.59	58.29	109.40	-51.11	peak

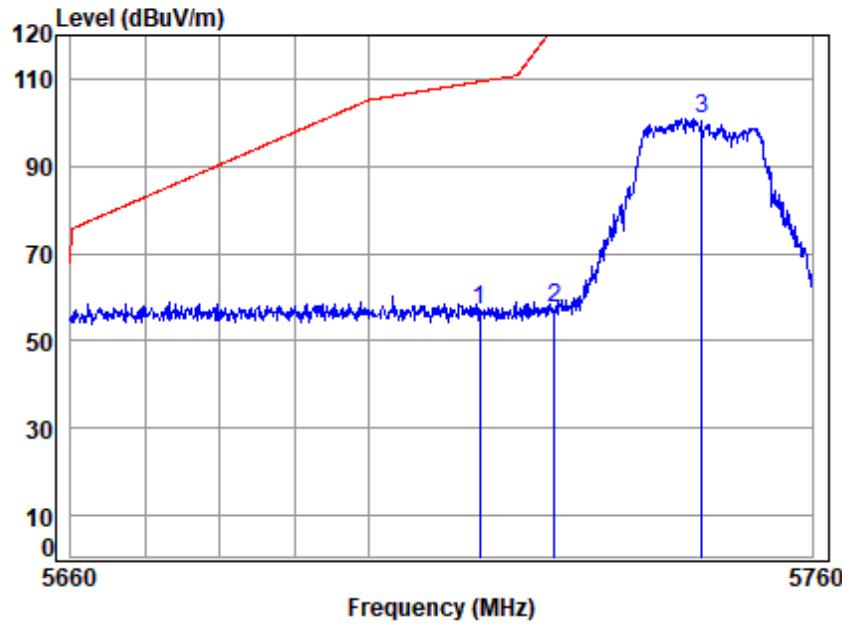
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Mode:d; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5745 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	5715.000	7.22	34.82	42.42	57.55	57.17	109.40	-52.23 peak
2	5725.000	7.19	34.83	42.41	57.81	57.42	122.20	-64.78 peak
3	5745.000	7.14	34.85	42.40	101.13	100.72	125.20	-24.48 peak

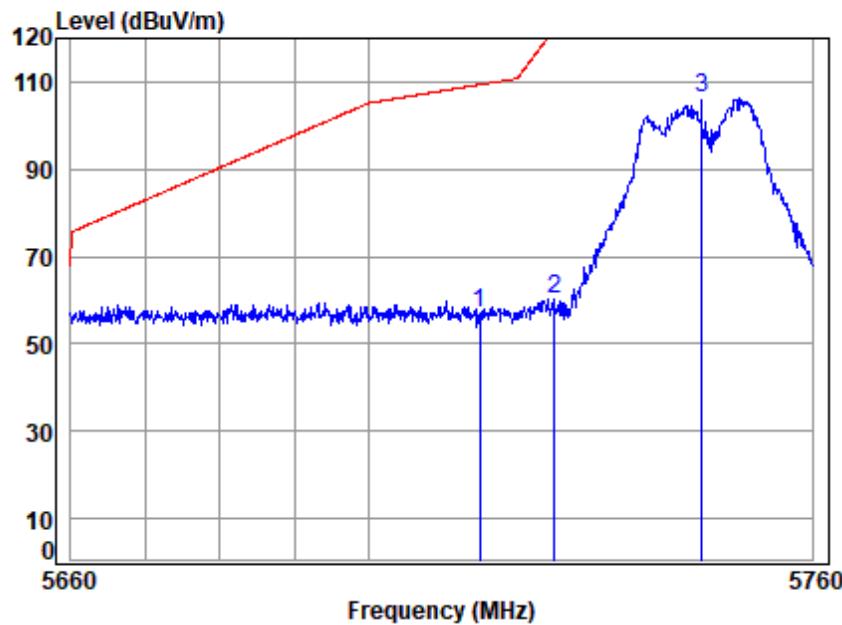
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Mode:d; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5745 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	5715.000	7.22	34.82	42.42	57.20	56.82	109.40	-52.58 peak
2	5725.000	7.19	34.83	42.41	60.71	60.32	122.20	-61.88 peak
3	5745.000	7.14	34.85	42.40	106.52	106.11	125.20	-19.09 peak

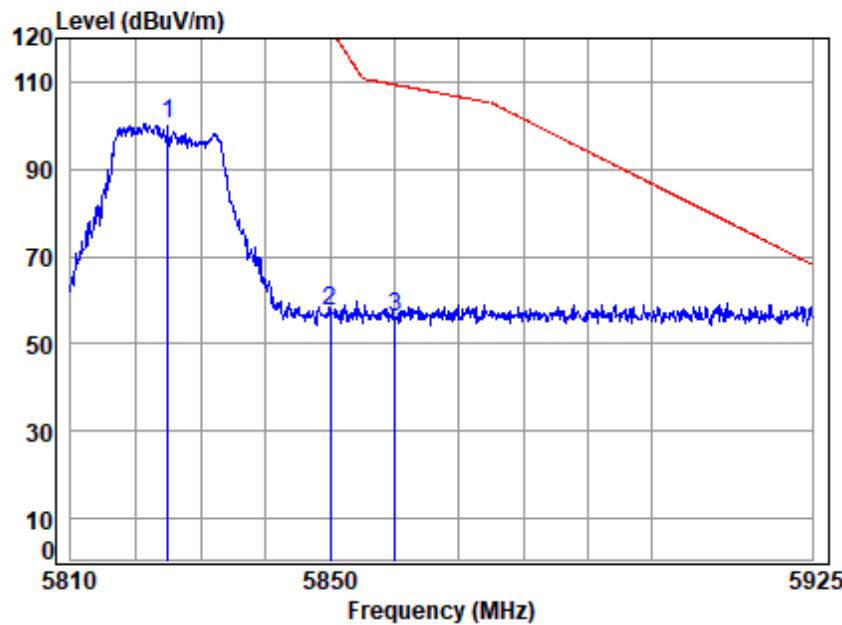
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Mode:d; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5825 Band edge  
: 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	
1 5825.000	7.03	34.93	42.35	100.85	100.46	125.20	-24.74	peak
2 5850.000	7.06	34.95	42.33	57.63	57.31	122.20	-64.89	peak
3 5860.000	7.07	34.96	42.33	56.56	56.26	109.40	-53.14	peak

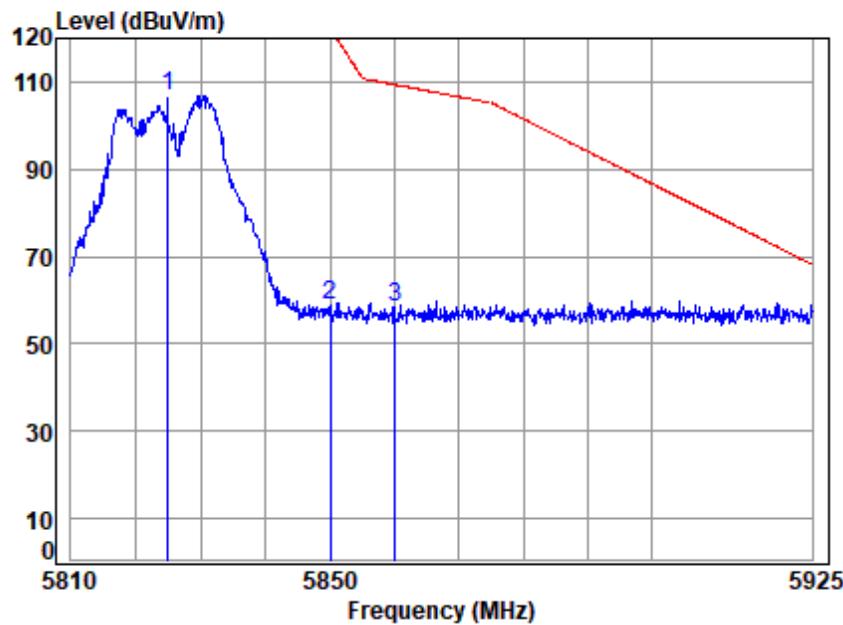
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Mode:d; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 03945CR

Mode : 5825 Band edge

	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB

1	5825.000	7.03	34.93	42.35	107.27	106.88	125.20	-18.32 peak
2	5850.000	7.06	34.95	42.33	59.38	59.06	122.20	-63.14 peak
3	5860.000	7.07	34.96	42.33	58.91	58.61	109.40	-50.79 peak

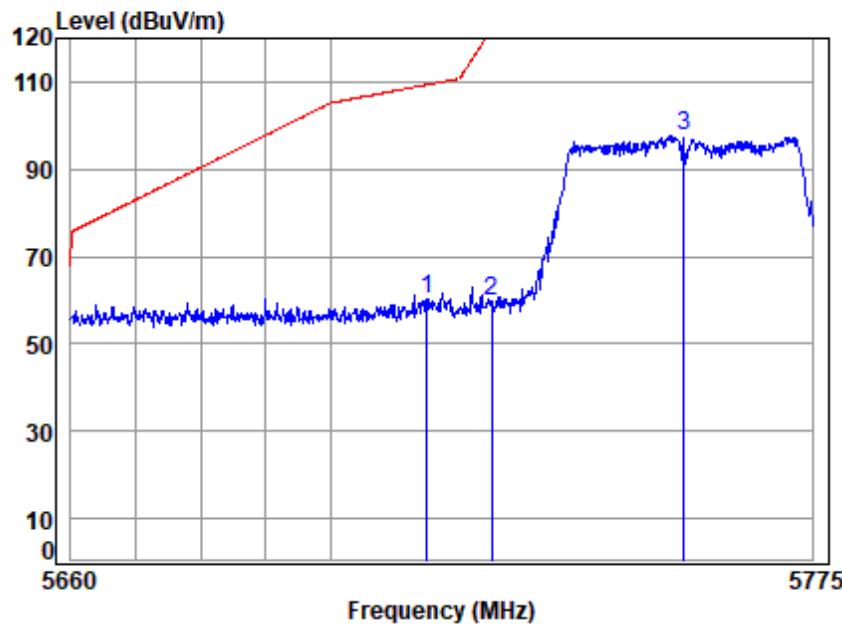
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Mode:d; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5755 Band edge  
: 5G WIFI 11N40

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	7.22	34.82	42.42	60.44	60.06	109.40	-49.34 peak
2	5725.000	7.19	34.83	42.41	60.35	59.96	122.20	-62.24 peak
3	5755.000	7.12	34.86	42.39	97.88	97.47	125.20	-27.73 peak

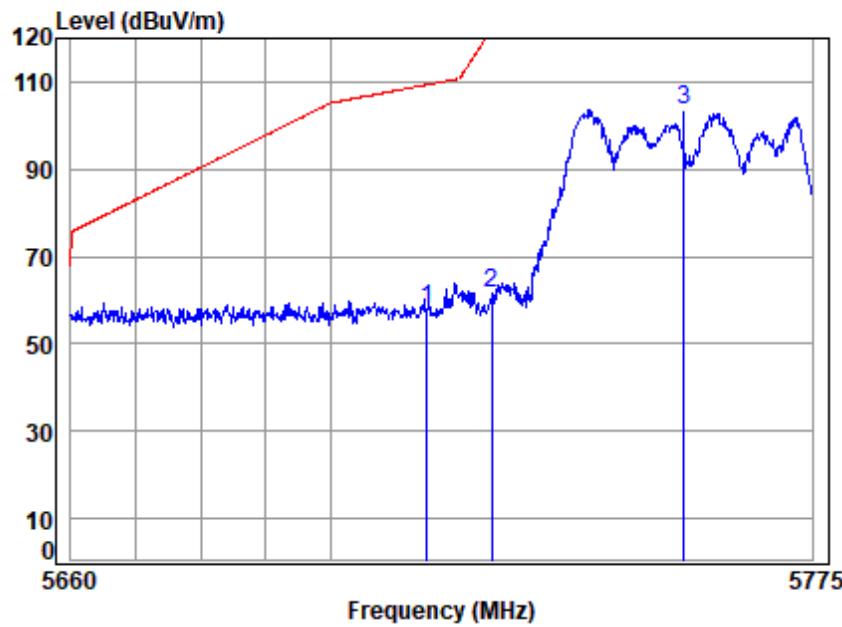
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Mode:d; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
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	7.22	34.82	42.42	58.33	57.95	109.40	-51.45 peak
2	5725.000	7.19	34.83	42.41	61.88	61.49	122.20	-60.71 peak
3	5755.000	7.12	34.86	42.39	103.78	103.37	125.20	-21.83 peak

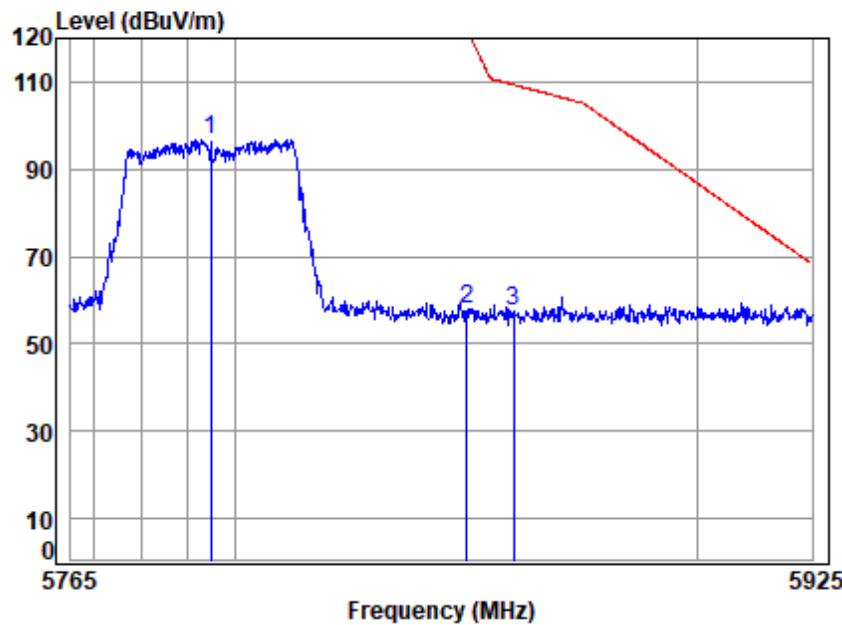
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Mode:d; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5795 Band edge  
: 5G WIFI 11N40

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.000	7.01	34.90	42.37	97.20	96.74	125.20	-28.46 peak
2	5850.000	7.06	34.95	42.33	58.05	57.73	122.20	-64.47 peak
3	5860.000	7.07	34.96	42.33	57.78	57.48	109.40	-51.92 peak

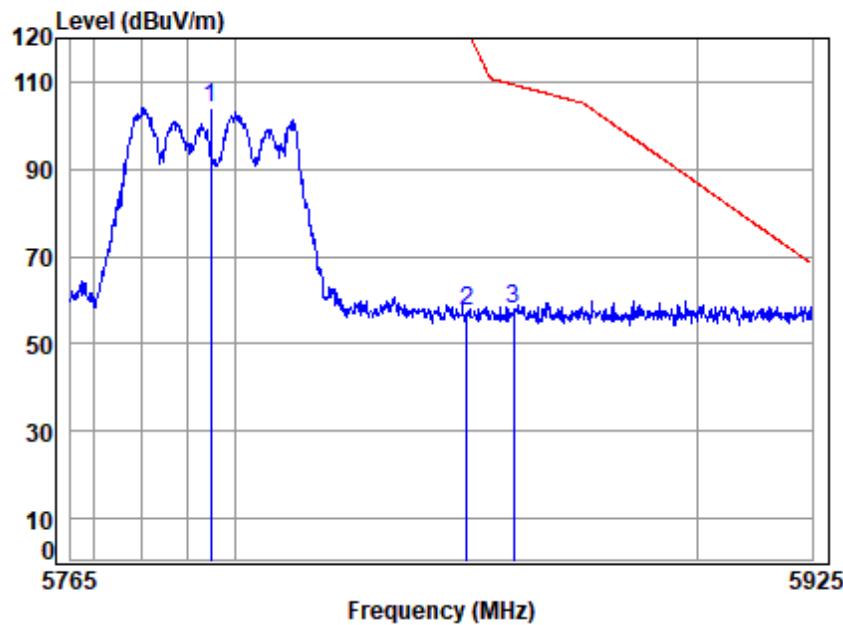
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Mode:d; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5795 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	5795.000	7.01	34.90	42.37	104.50	104.04	125.20	-21.16 peak
2	5850.000	7.06	34.95	42.33	57.91	57.59	122.20	-64.61 peak
3	5860.000	7.07	34.96	42.33	58.10	57.80	109.40	-51.60 peak

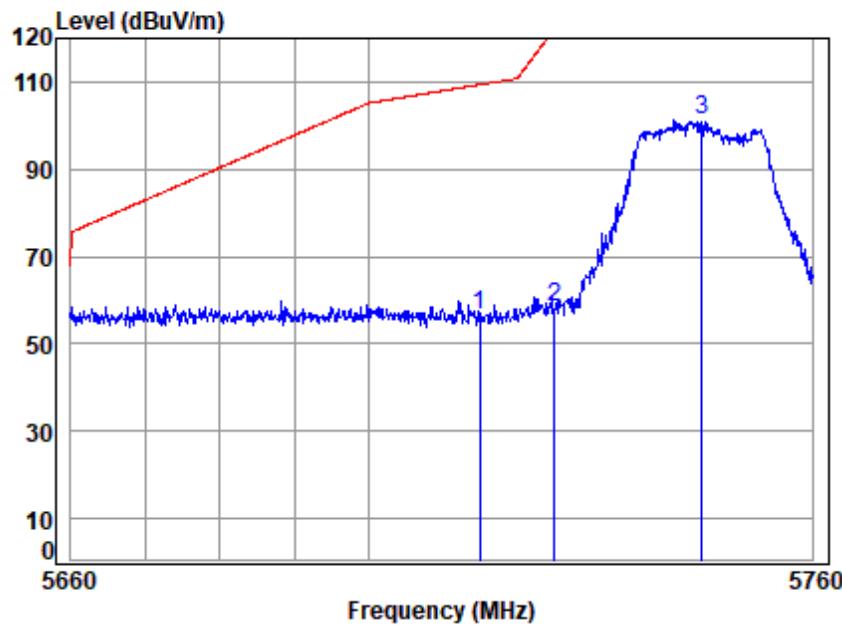
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Mode:d; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5745 Band edge  
: 5G WIFI 11AC20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	7.22	34.82	42.42	56.95	56.57	109.40	-52.83 peak
2	5725.000	7.19	34.83	42.41	58.87	58.48	122.20	-63.72 peak
3	5745.000	7.14	34.85	42.40	101.55	101.14	125.20	-24.06 peak

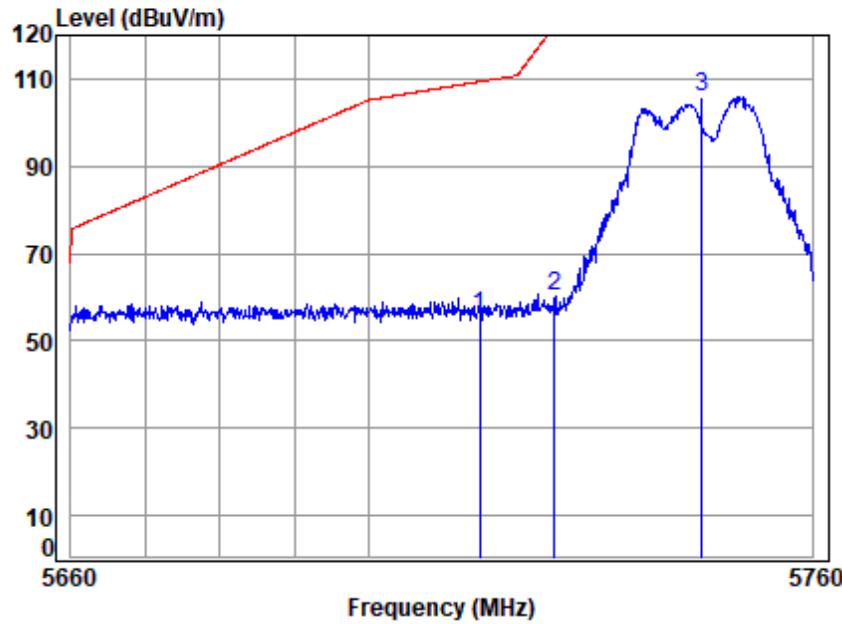
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Mode:d; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03945CR  
Mode : 5745 Band edge  
: 5G WIFI 11AC20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	7.22	34.82	42.42	55.89	55.51	109.40	-53.89 peak
2	5725.000	7.19	34.83	42.41	60.50	60.11	122.20	-62.09 peak
3	5745.000	7.14	34.85	42.40	106.34	105.93	125.20	-19.27 peak

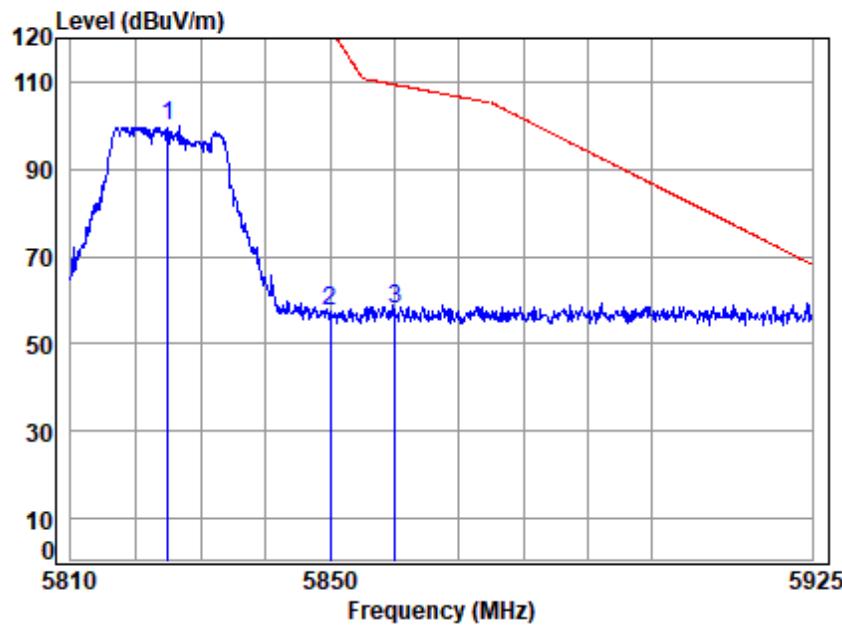
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Mode:d; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5825 Band edge  
: 5G WIFI 11AC20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	7.03	34.93	42.35	100.26	99.87	125.20	-25.33 peak
2	5850.000	7.06	34.95	42.33	58.00	57.68	122.20	-64.52 peak
3	5860.000	7.07	34.96	42.33	58.12	57.82	109.40	-51.58 peak

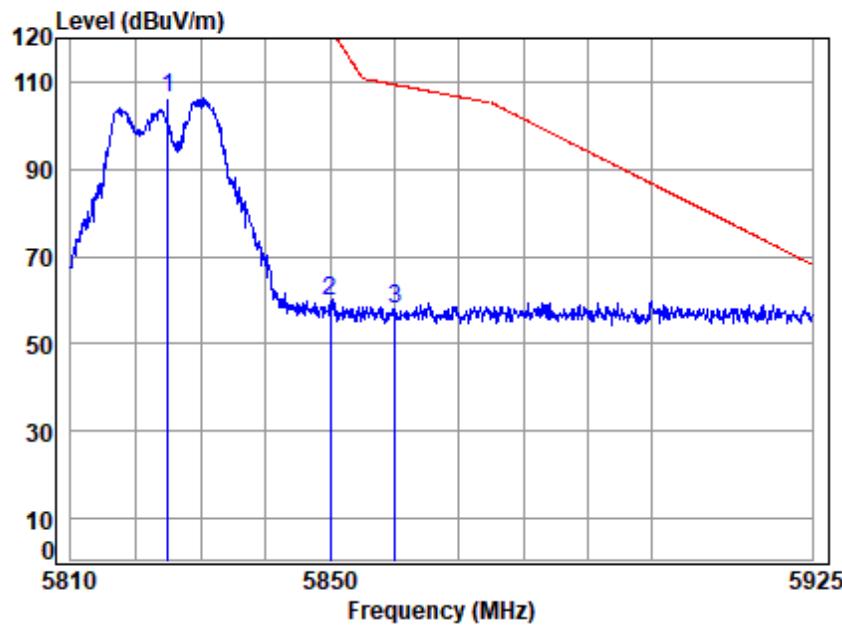
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Mode:d; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL

Job No : 03945CR

Mode : 5825 Band edge  
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	
1 5825.000	7.03	34.93	42.35	106.61	106.22	125.20	-18.98	peak
2 5850.000	7.06	34.95	42.33	60.06	59.74	122.20	-62.46	peak
3 5860.000	7.07	34.96	42.33	58.47	58.17	109.40	-51.23	peak



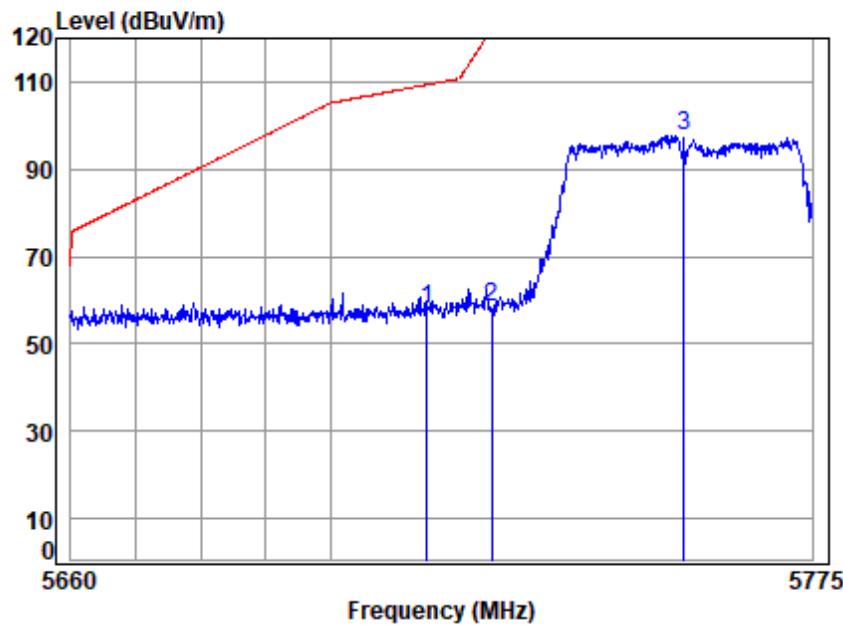
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Mode:d; Polarization:Horizontal; Modulation:802.11ac; bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5755 Band edge  
: 5G WIFI 11AC40

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	7.22	34.82	42.42	58.33	57.95	109.40	-51.45	peak
2	5725.000	7.19	34.83	42.41	58.59	58.20	122.20	-64.00	peak
3	5755.000	7.12	34.86	42.39	98.08	97.67	125.20	-27.53	peak

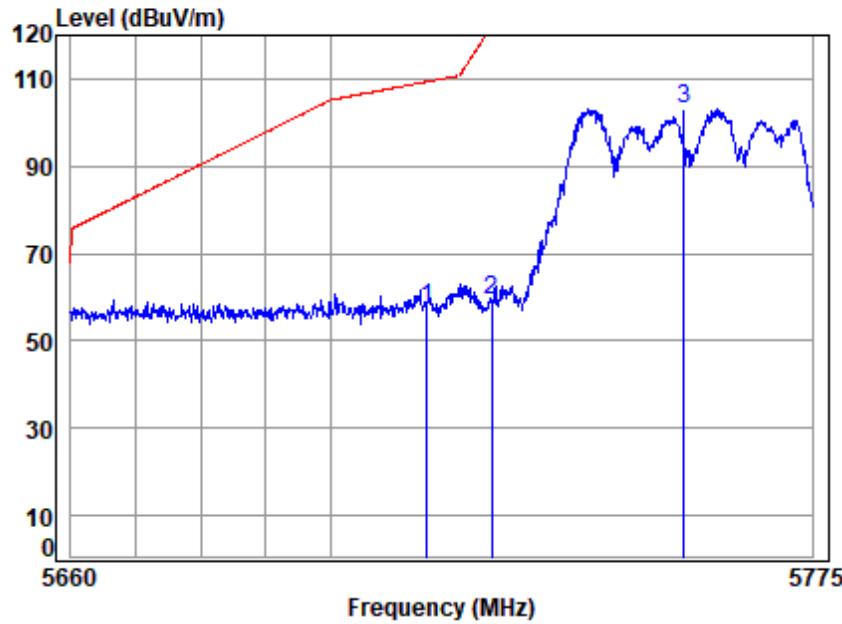
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Mode:d; Polarization:Vertical; Modulation:802.11ac; bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 03945CR

Mode : 5755 Band edge

	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB

1	5715.000	7.22	34.82	42.42	57.70	57.32	109.40	-52.08 peak
2	5725.000	7.19	34.83	42.41	59.78	59.39	122.20	-62.81 peak
3	5755.000	7.12	34.86	42.39	103.62	103.21	125.20	-21.99 peak

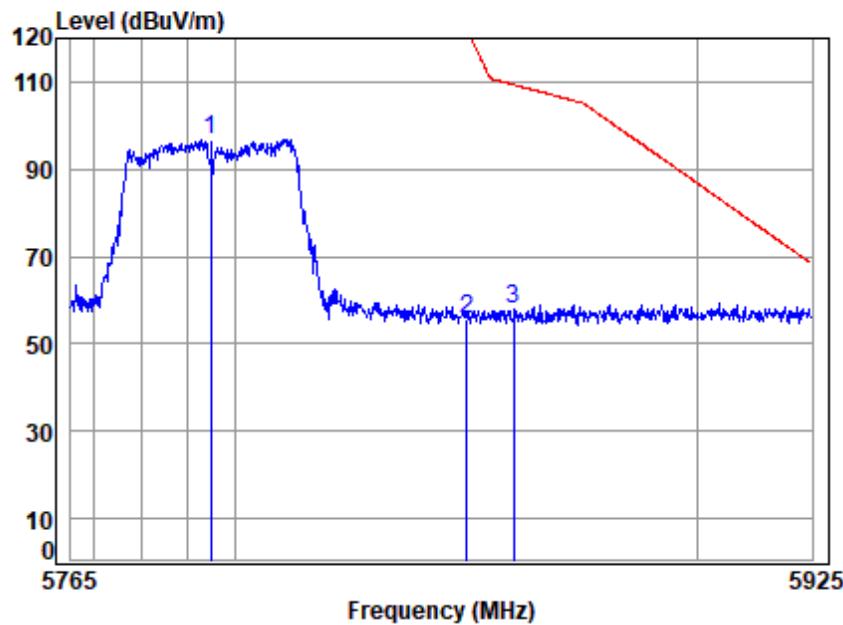
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Mode:d; Polarization:Horizontal; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03945CR  
Mode : 5795 Band edge  
: 5G WIFI 11AC40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.000	7.01	34.90	42.37	97.21	96.75	125.20	-28.45 peak
2	5850.000	7.06	34.95	42.33	55.88	55.56	122.20	-66.64 peak
3	5860.000	7.07	34.96	42.33	58.13	57.83	109.40	-51.57 peak

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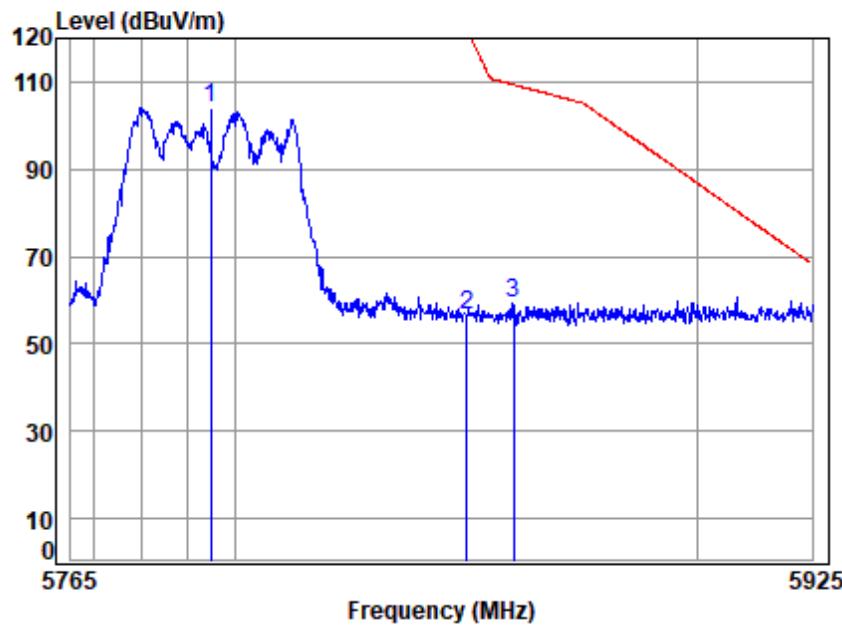
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Mode:d; Polarization:Vertical; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 03945CR

Mode : 5795 Band edge

	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB

1	5795.000	7.01	34.90	42.37	104.49	104.03	125.20	-21.17 peak
2	5850.000	7.06	34.95	42.33	56.91	56.59	122.20	-65.61 peak
3	5860.000	7.07	34.96	42.33	59.83	59.53	109.40	-49.87 peak

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## 7.9 Frequency Stability

Test Requirement	47 CFR Part 15, Subpart C 15.407 (g)
Test Method:	ANSI C63.10 (2013) Section 6.8
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

### 7.9.1 E.U.T. Operation

#### Operating Environment:

Temperature:	28.5 °C	Humidity:	44.5 % RH	Atmospheric Pressure:	1010 mbar
Pretest these modes to find the worst case:	c:TX mode (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.				
	d:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.				

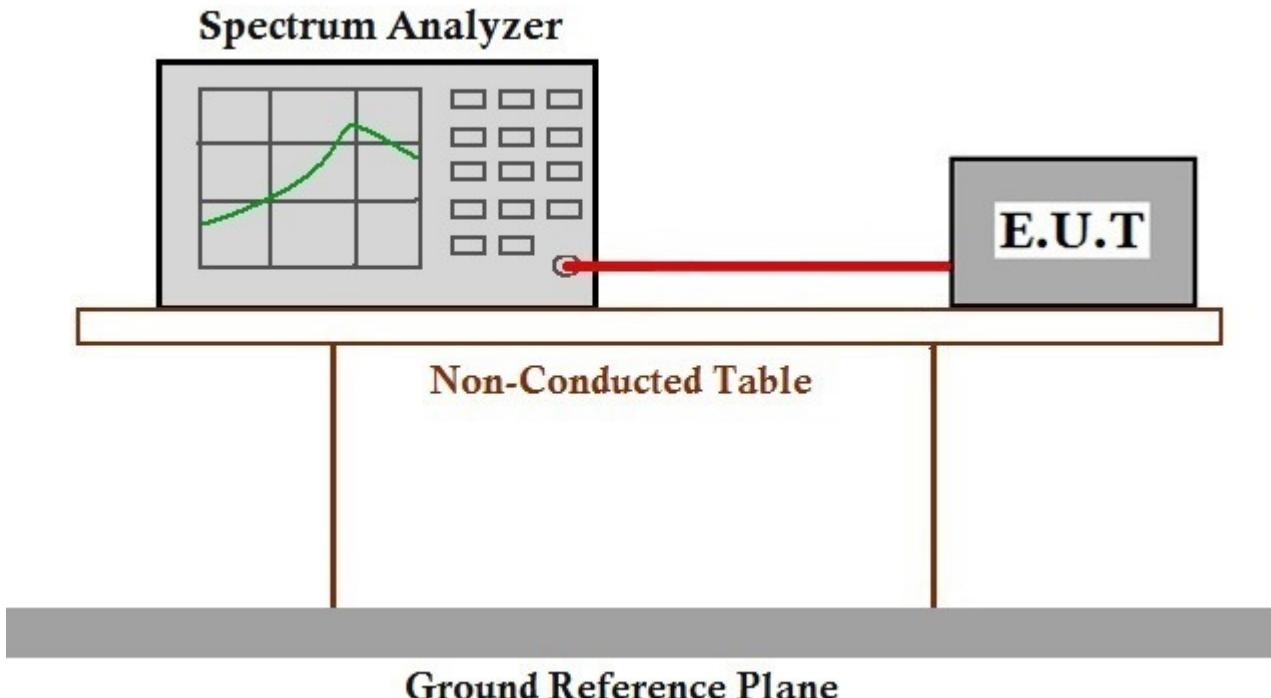
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**7.9.2 Test Setup Diagram****7.9.3 Measurement Procedure and Data**

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 Photographs

### 8.1 Test Setup

Please refer to setup photos.

### 8.2 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.



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## 9 Appendix

### 9.1 Appendix 15.407

#### 1. Emission Bandwidth Measurement

Test mode:	Test Channel	Ant	EBW[MHz]	Limit[MHz]	Verdict
11A	5180	Ant1	23.520	---	PASS
11A	5180	Ant2	23.670	---	PASS
11A	5180	Ant3	23.370	---	PASS
11A	5180	Ant4	24.000	---	PASS
11A	5220	Ant1	23.610	---	PASS
11A	5220	Ant2	23.580	---	PASS
11A	5220	Ant3	23.520	---	PASS
11A	5220	Ant4	23.730	---	PASS
11A	5240	Ant1	23.520	---	PASS
11A	5240	Ant2	23.610	---	PASS
11A	5240	Ant3	23.520	---	PASS
11A	5240	Ant4	23.670	---	PASS
11A	5745	Ant1	16.410	>=0.5	PASS
11A	5745	Ant2	16.440	>=0.5	PASS
11A	5745	Ant3	16.410	>=0.5	PASS
11A	5745	Ant4	16.440	>=0.5	PASS
11A	5785	Ant1	16.410	>=0.5	PASS
11A	5785	Ant2	16.440	>=0.5	PASS
11A	5785	Ant3	16.410	>=0.5	PASS
11A	5785	Ant4	16.440	>=0.5	PASS
11A	5825	Ant1	16.410	>=0.5	PASS
11A	5825	Ant2	16.440	>=0.5	PASS
11A	5825	Ant3	16.410	>=0.5	PASS
11A	5825	Ant4	16.440	>=0.5	PASS
11N20	5180	Ant1	24.870	---	PASS
11N20	5180	Ant2	25.530	---	PASS

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11N20	5180	Ant3	24.570	---	PASS
11N20	5180	Ant4	24.570	---	PASS
11N20	5220	Ant1	24.870	---	PASS
11N20	5220	Ant2	25.650	---	PASS
11N20	5220	Ant3	24.360	---	PASS
11N20	5220	Ant4	24.480	---	PASS
11N20	5240	Ant1	24.780	---	PASS
11N20	5240	Ant2	25.230	---	PASS
11N20	5240	Ant3	24.240	---	PASS
11N20	5240	Ant4	24.270	---	PASS
11N20	5745	Ant1	17.670	>=0.5	PASS
11N20	5745	Ant2	17.670	>=0.5	PASS
11N20	5745	Ant3	17.670	>=0.5	PASS
11N20	5745	Ant4	17.670	>=0.5	PASS
11N20	5785	Ant1	17.640	>=0.5	PASS
11N20	5785	Ant2	17.640	>=0.5	PASS
11N20	5785	Ant3	17.670	>=0.5	PASS
11N20	5785	Ant4	17.670	>=0.5	PASS
11N20	5825	Ant1	17.670	>=0.5	PASS
11N20	5825	Ant2	17.640	>=0.5	PASS
11N20	5825	Ant3	17.700	>=0.5	PASS
11N20	5825	Ant4	17.670	>=0.5	PASS
11N40	5190	Ant1	43.440	---	PASS
11N40	5190	Ant2	42.720	---	PASS
11N40	5190	Ant3	43.200	---	PASS
11N40	5190	Ant4	42.480	---	PASS
11N40	5230	Ant1	43.320	---	PASS
11N40	5230	Ant2	42.960	---	PASS
11N40	5230	Ant3	43.200	---	PASS
11N40	5230	Ant4	42.600	---	PASS
11N40	5755	Ant1	36.480	>=0.5	PASS
11N40	5755	Ant2	36.480	>=0.5	PASS

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11N40	5755	Ant3	36.540	>=0.5	PASS
11N40	5755	Ant4	36.420	>=0.5	PASS
11N40	5795	Ant1	36.480	>=0.5	PASS
11N40	5795	Ant2	36.420	>=0.5	PASS
11N40	5795	Ant3	36.420	>=0.5	PASS
11N40	5795	Ant4	36.420	>=0.5	PASS
11AC20	5180	Ant1	24.840	---	PASS
11AC20	5180	Ant2	25.530	---	PASS
11AC20	5180	Ant3	24.630	---	PASS
11AC20	5180	Ant4	24.360	---	PASS
11AC20	5220	Ant1	24.780	---	PASS
11AC20	5220	Ant2	25.230	---	PASS
11AC20	5220	Ant3	24.660	---	PASS
11AC20	5220	Ant4	24.240	---	PASS
11AC20	5240	Ant1	24.870	---	PASS
11AC20	5240	Ant2	25.200	---	PASS
11AC20	5240	Ant3	24.450	---	PASS
11AC20	5240	Ant4	24.150	---	PASS
11AC20	5745	Ant1	17.670	>=0.5	PASS
11AC20	5745	Ant2	17.700	>=0.5	PASS
11AC20	5745	Ant3	17.670	>=0.5	PASS
11AC20	5745	Ant4	17.670	>=0.5	PASS
11AC20	5785	Ant1	17.670	>=0.5	PASS
11AC20	5785	Ant2	17.640	>=0.5	PASS
11AC20	5785	Ant3	17.670	>=0.5	PASS
11AC20	5785	Ant4	17.670	>=0.5	PASS
11AC20	5825	Ant1	17.670	>=0.5	PASS
11AC20	5825	Ant2	17.670	>=0.5	PASS
11AC20	5825	Ant3	17.700	>=0.5	PASS
11AC20	5825	Ant4	17.670	>=0.5	PASS
11AC80	5210	Ant1	83.880	---	PASS
11AC80	5210	Ant2	81.000	---	PASS

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11AC80	5210	Ant3	83.760	---	PASS
11AC80	5210	Ant4	83.400	---	PASS
11AC80	5775	Ant1	75.480	>=0.5	PASS
11AC80	5775	Ant2	75.600	>=0.5	PASS
11AC80	5775	Ant3	75.360	>=0.5	PASS
11AC80	5775	Ant4	75.360	>=0.5	PASS
11AC40	5190	Ant1	43.380	---	PASS
11AC40	5190	Ant2	42.720	---	PASS
11AC40	5190	Ant3	43.080	---	PASS
11AC40	5190	Ant4	42.480	---	PASS
11AC40	5230	Ant1	43.320	---	PASS
11AC40	5230	Ant2	42.900	---	PASS
11AC40	5230	Ant3	43.320	---	PASS
11AC40	5230	Ant4	42.600	---	PASS
11AC40	5755	Ant1	36.480	>=0.5	PASS
11AC40	5755	Ant2	36.480	>=0.5	PASS
11AC40	5755	Ant3	36.480	>=0.5	PASS
11AC40	5755	Ant4	36.420	>=0.5	PASS
11AC40	5795	Ant1	36.480	>=0.5	PASS
11AC40	5795	Ant2	36.480	>=0.5	PASS
11AC40	5795	Ant3	36.420	>=0.5	PASS
11AC40	5795	Ant4	36.420	>=0.5	PASS

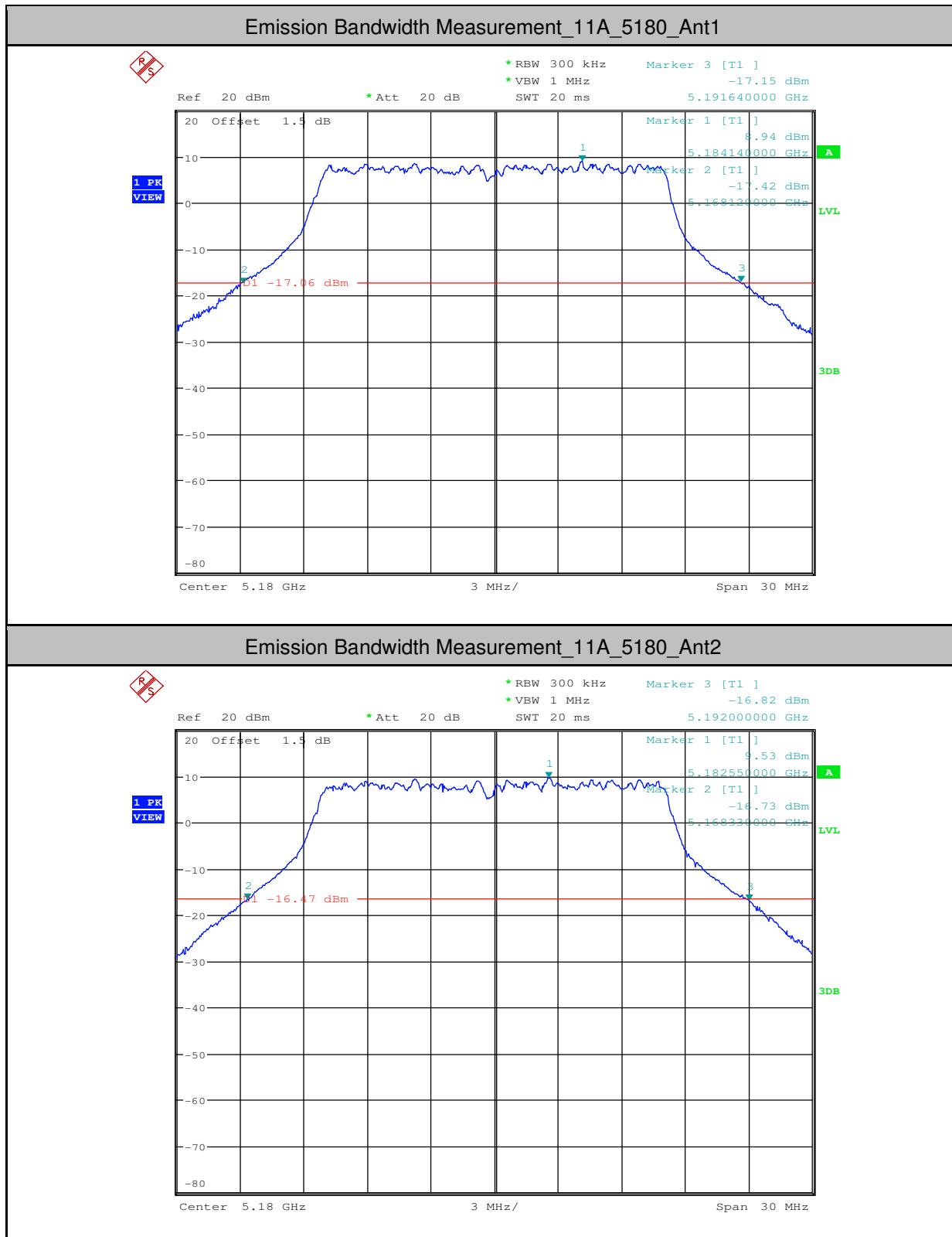
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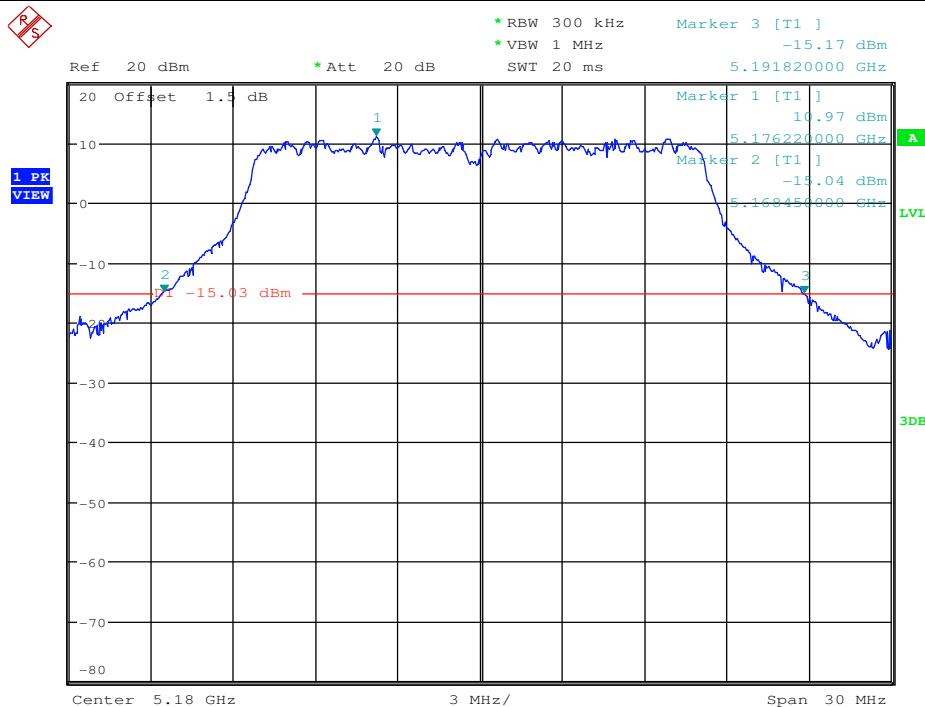
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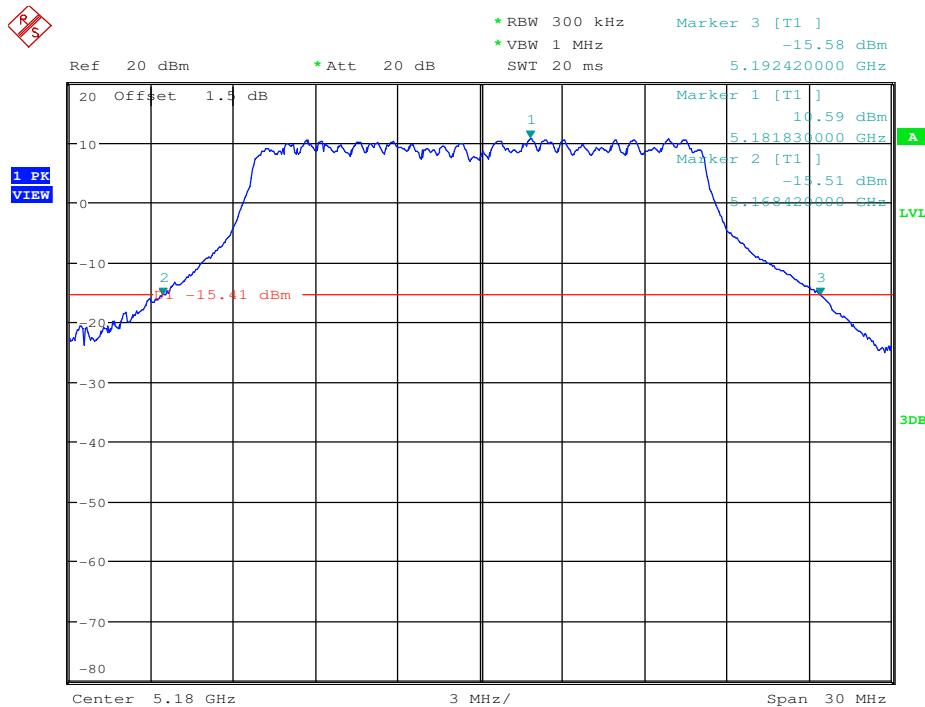
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Emission Bandwidth Measurement\_11A\_5180\_Ant3



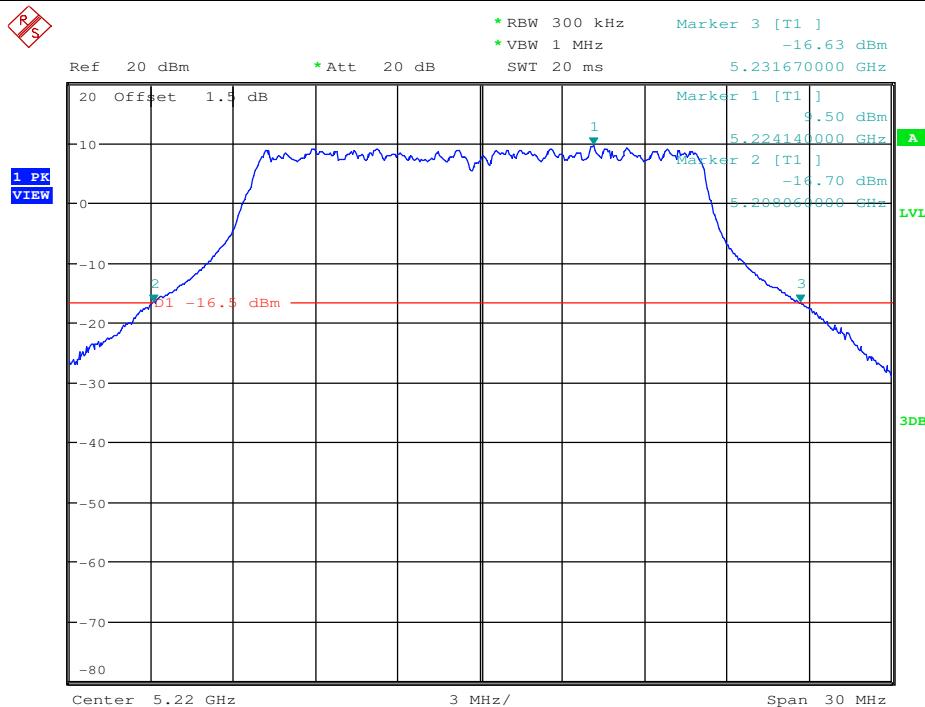
Emission Bandwidth Measurement\_11A\_5180\_Ant4



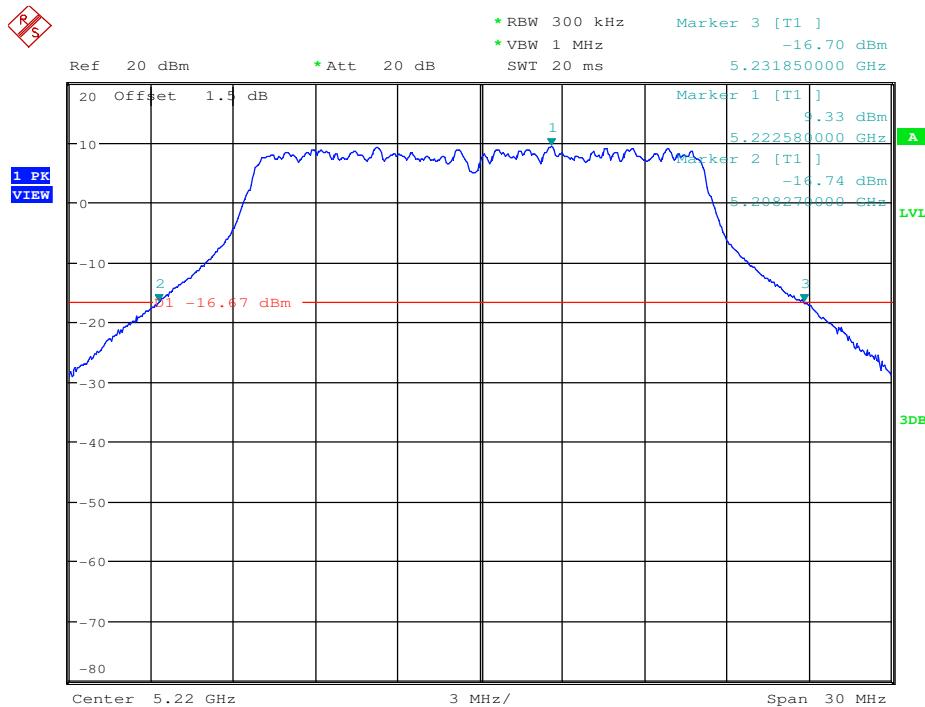
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Emission Bandwidth Measurement\_11A\_5220\_Ant1



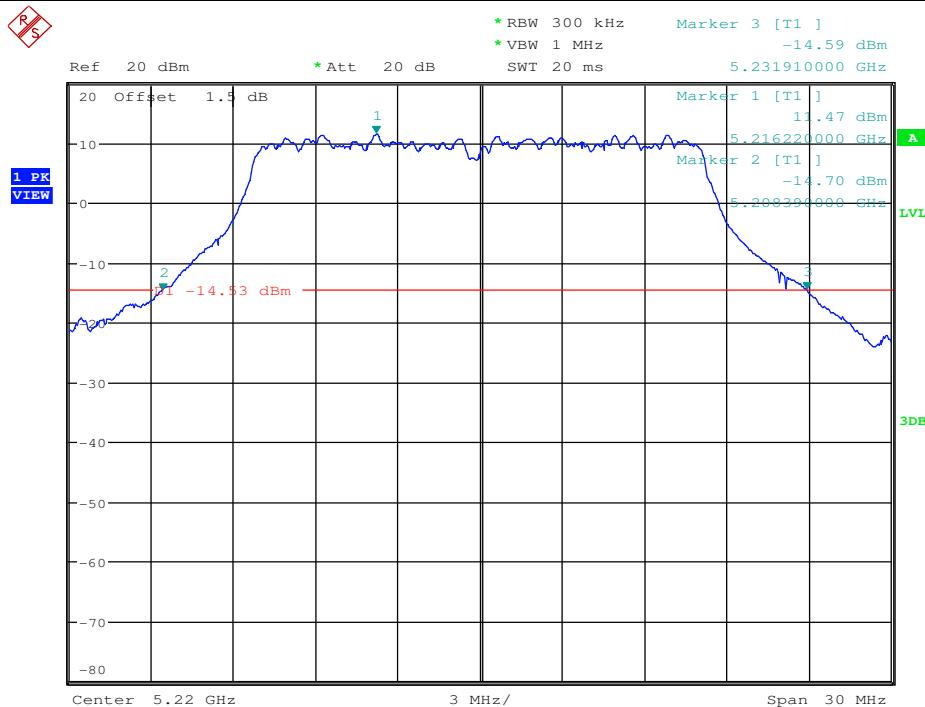
Emission Bandwidth Measurement\_11A\_5220\_Ant2



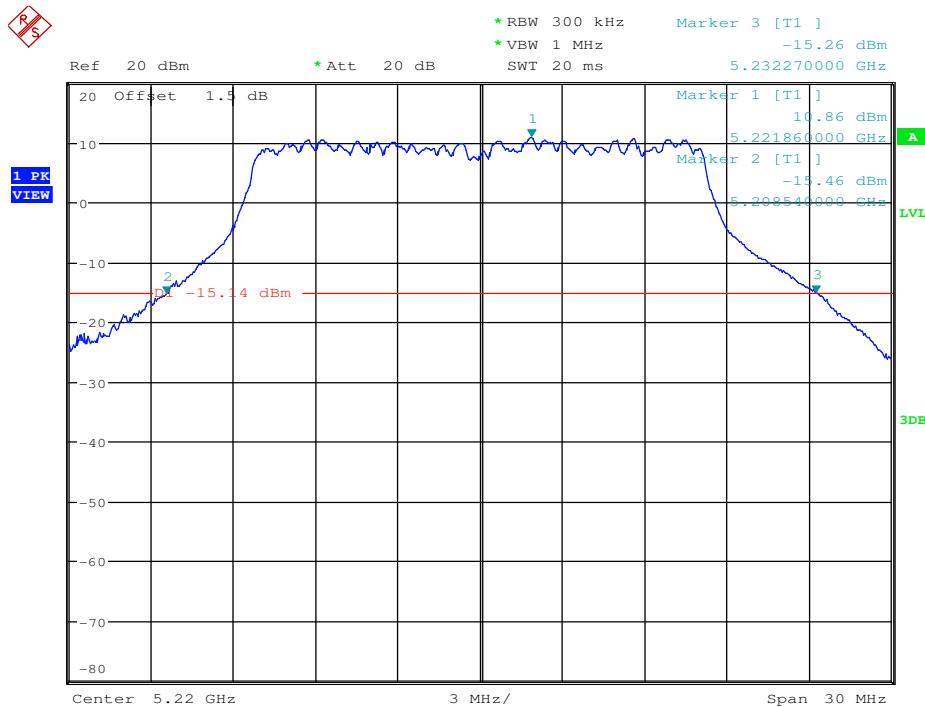
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Emission Bandwidth Measurement\_11A\_5220\_Ant3



Emission Bandwidth Measurement\_11A\_5220\_Ant4

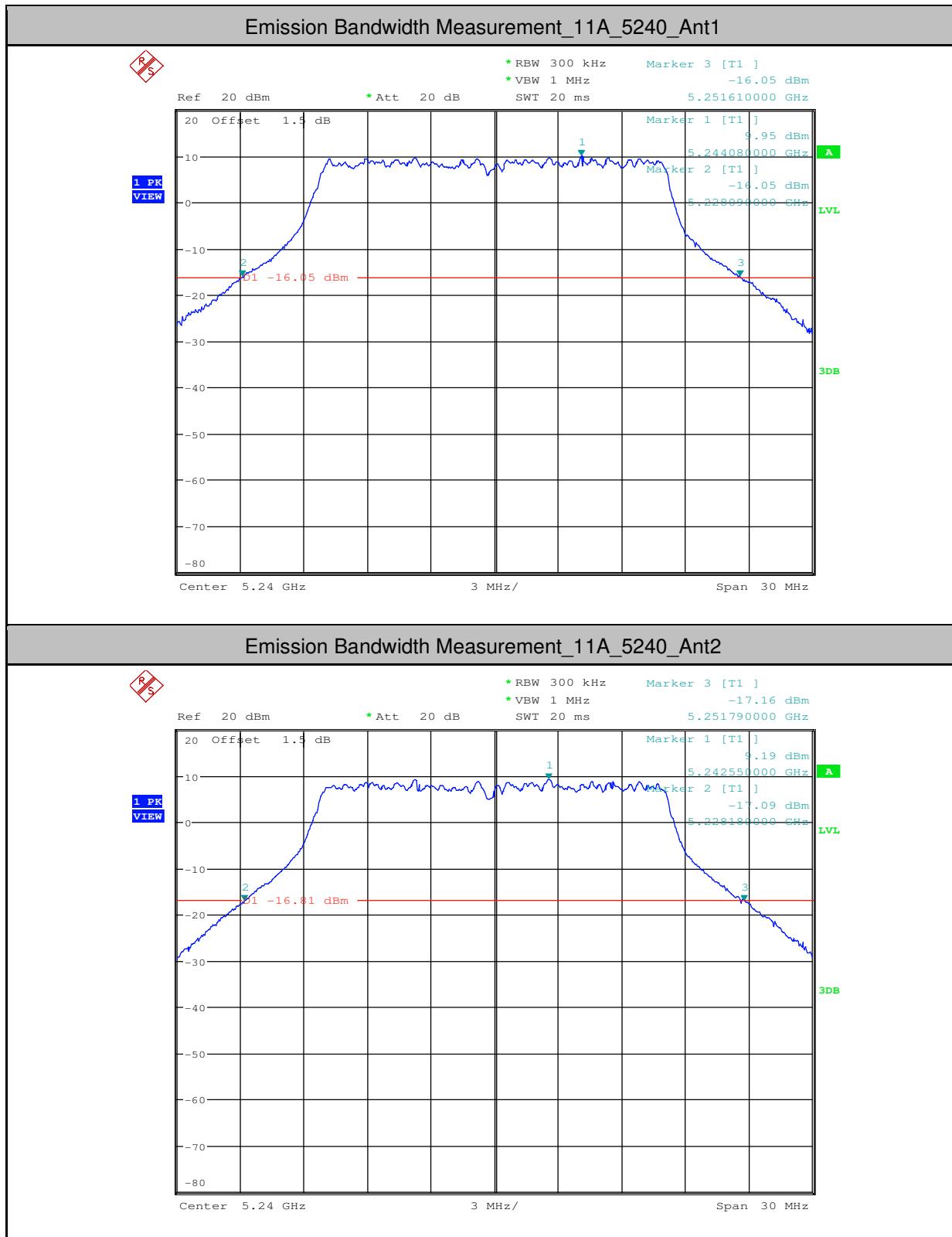


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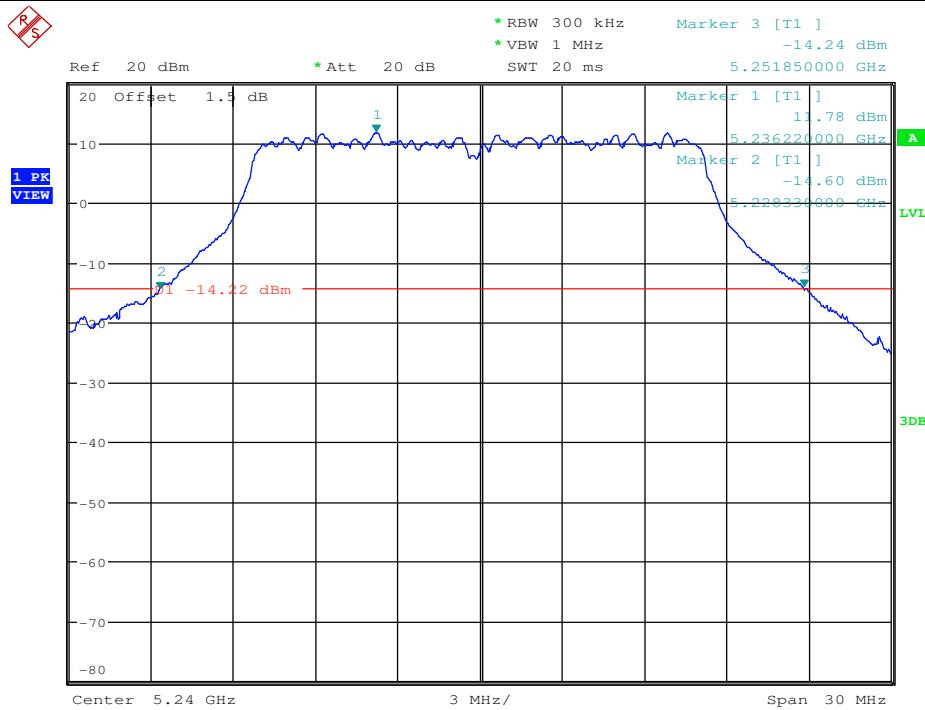
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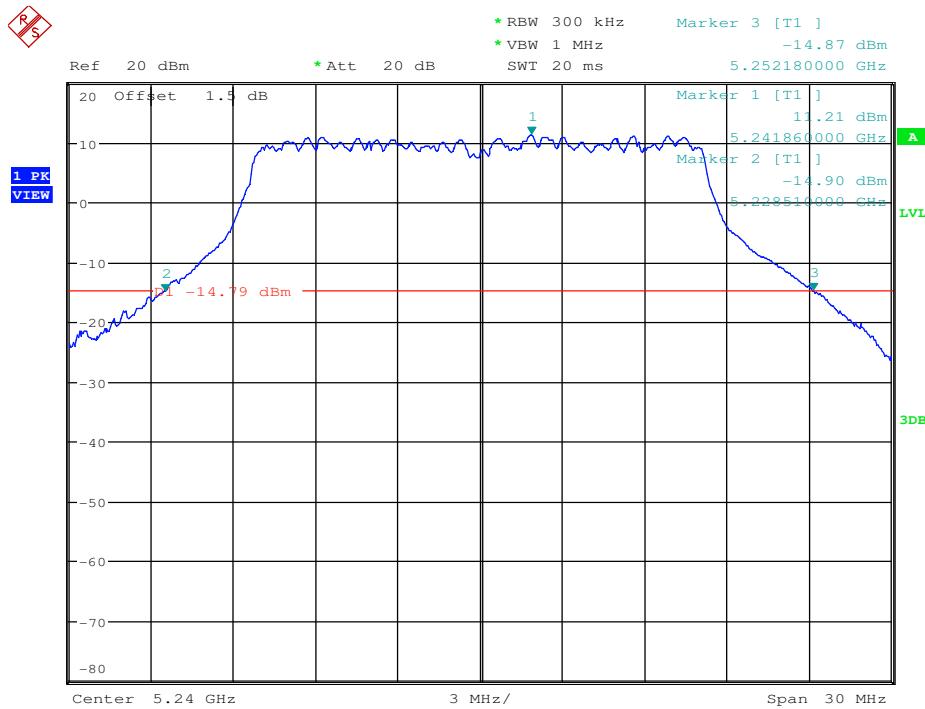
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Emission Bandwidth Measurement\_11A\_5240\_Ant3

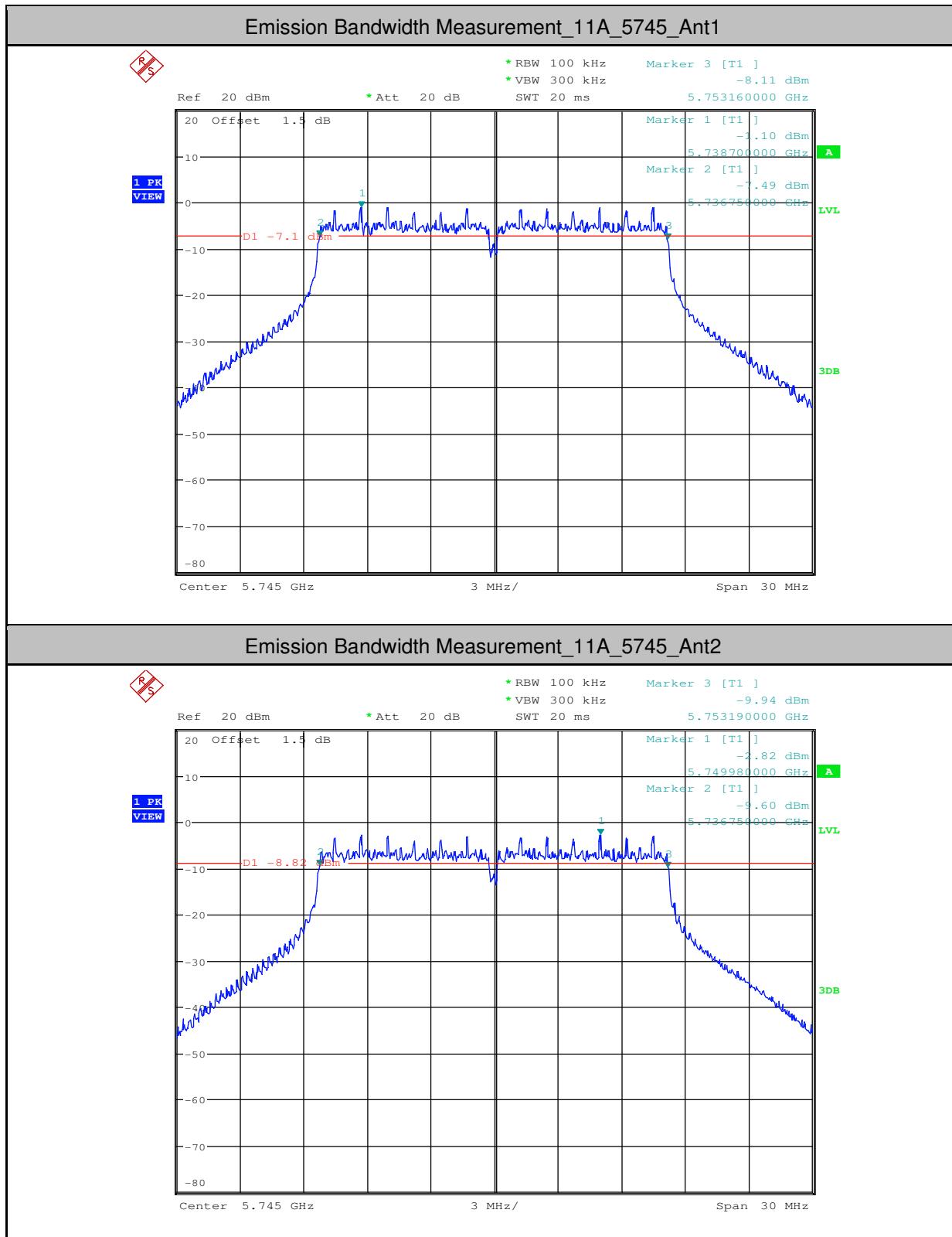


Emission Bandwidth Measurement\_11A\_5240\_Ant4



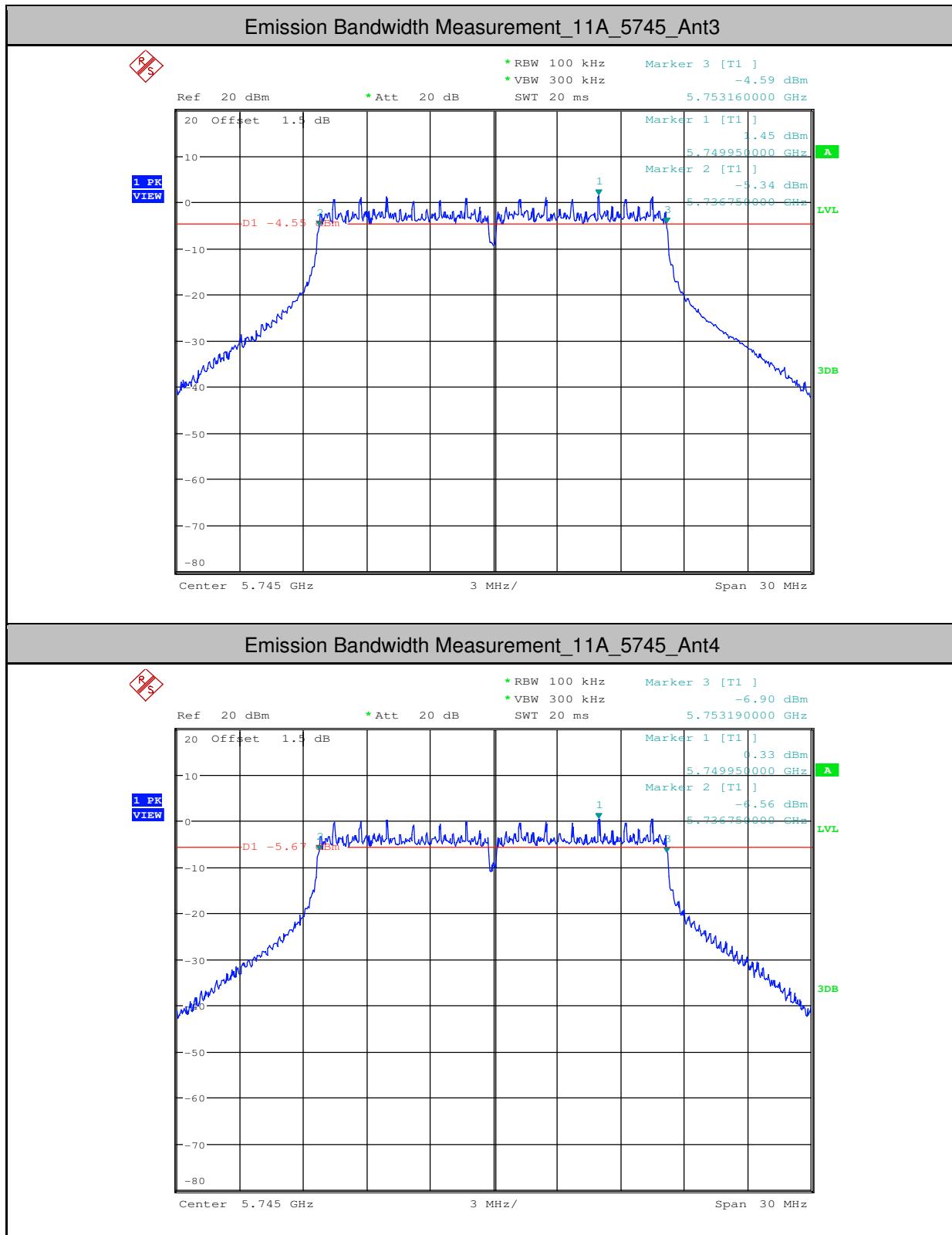
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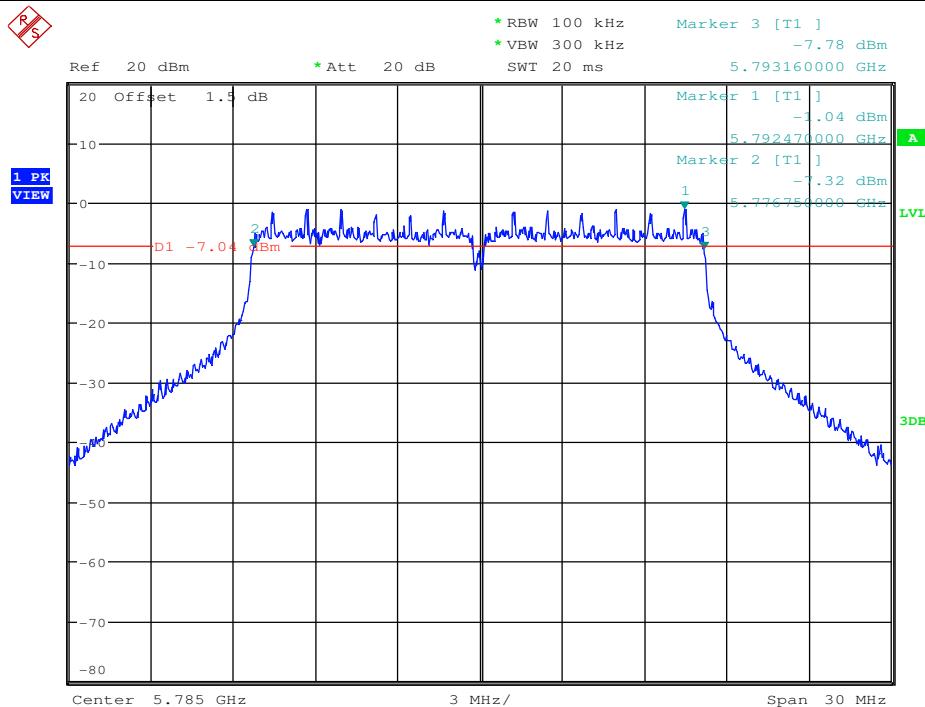




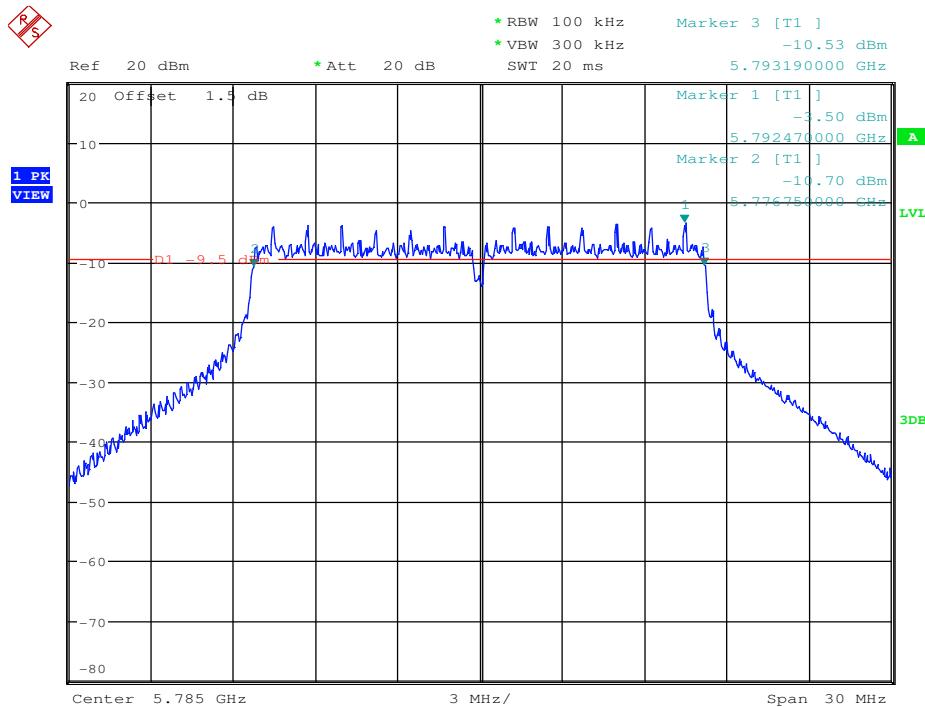
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Emission Bandwidth Measurement\_11A\_5785\_Ant1



Emission Bandwidth Measurement\_11A\_5785\_Ant2

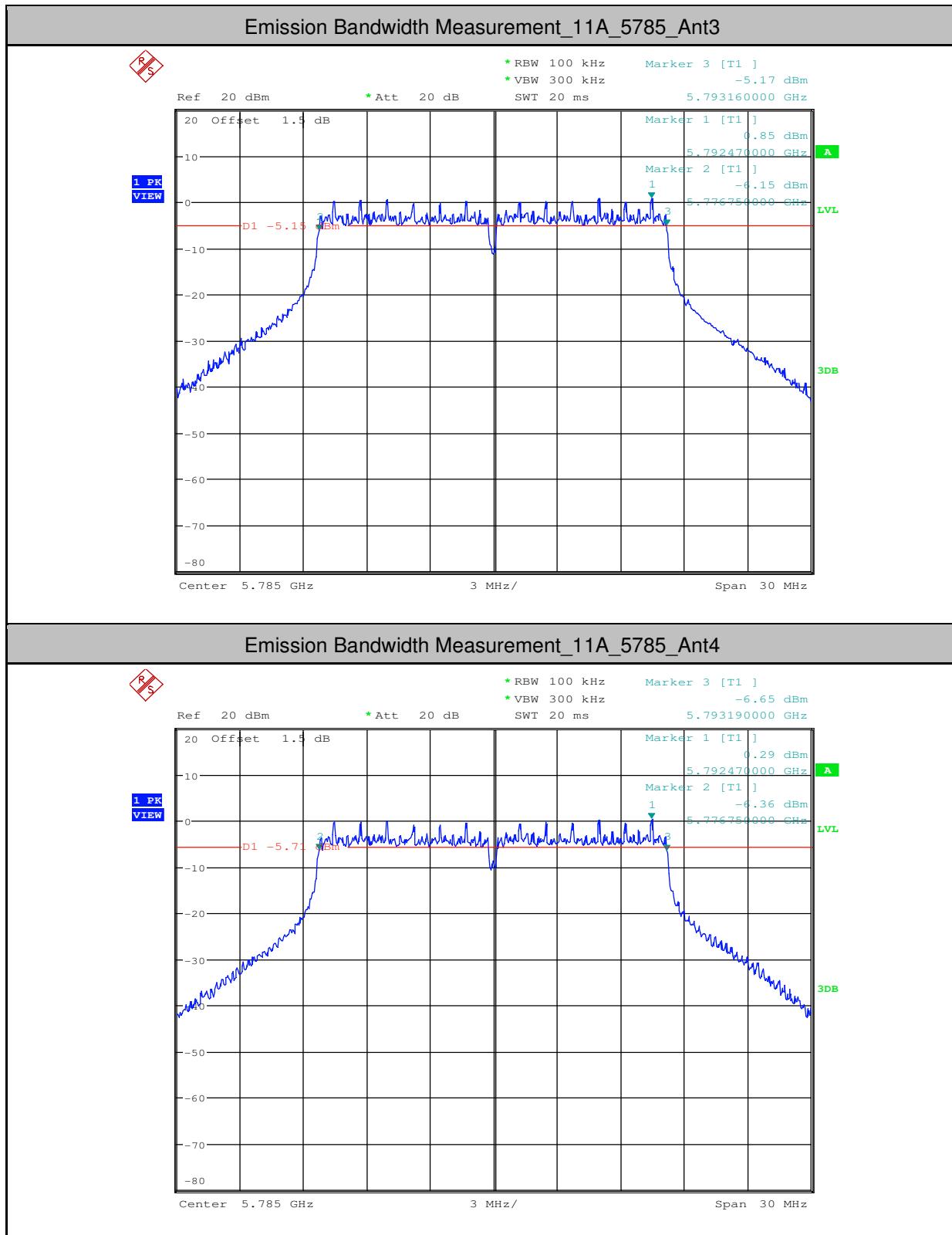


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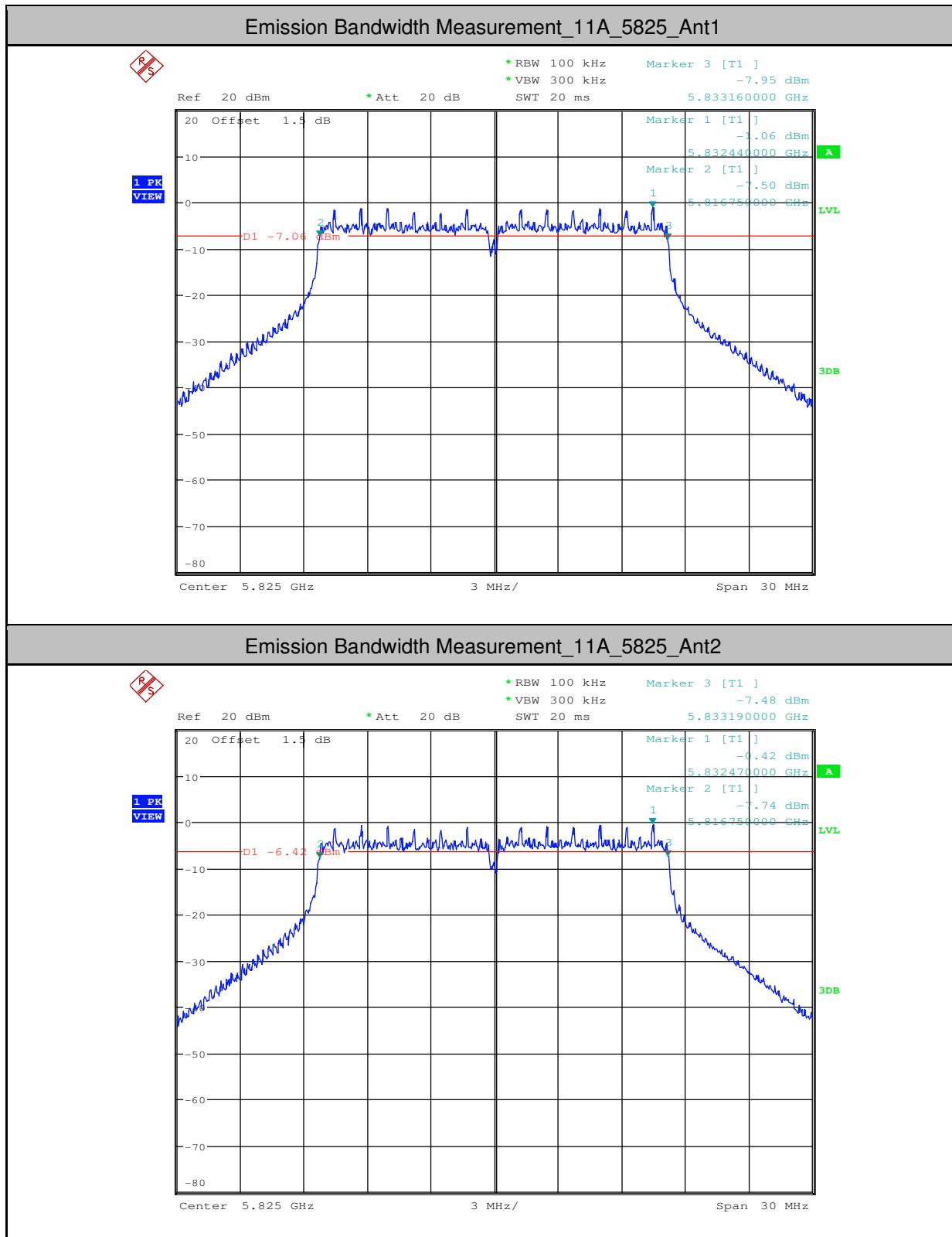
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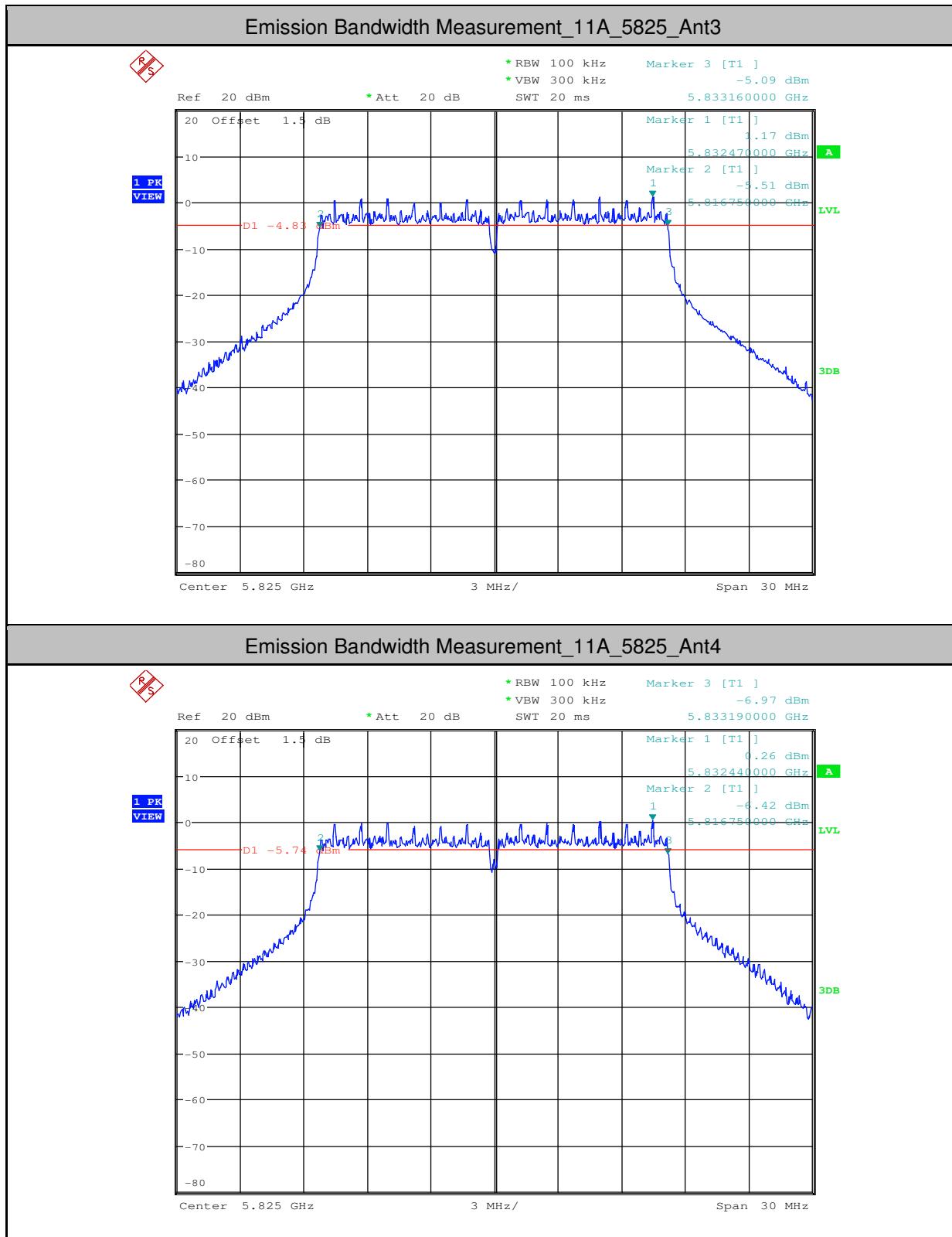
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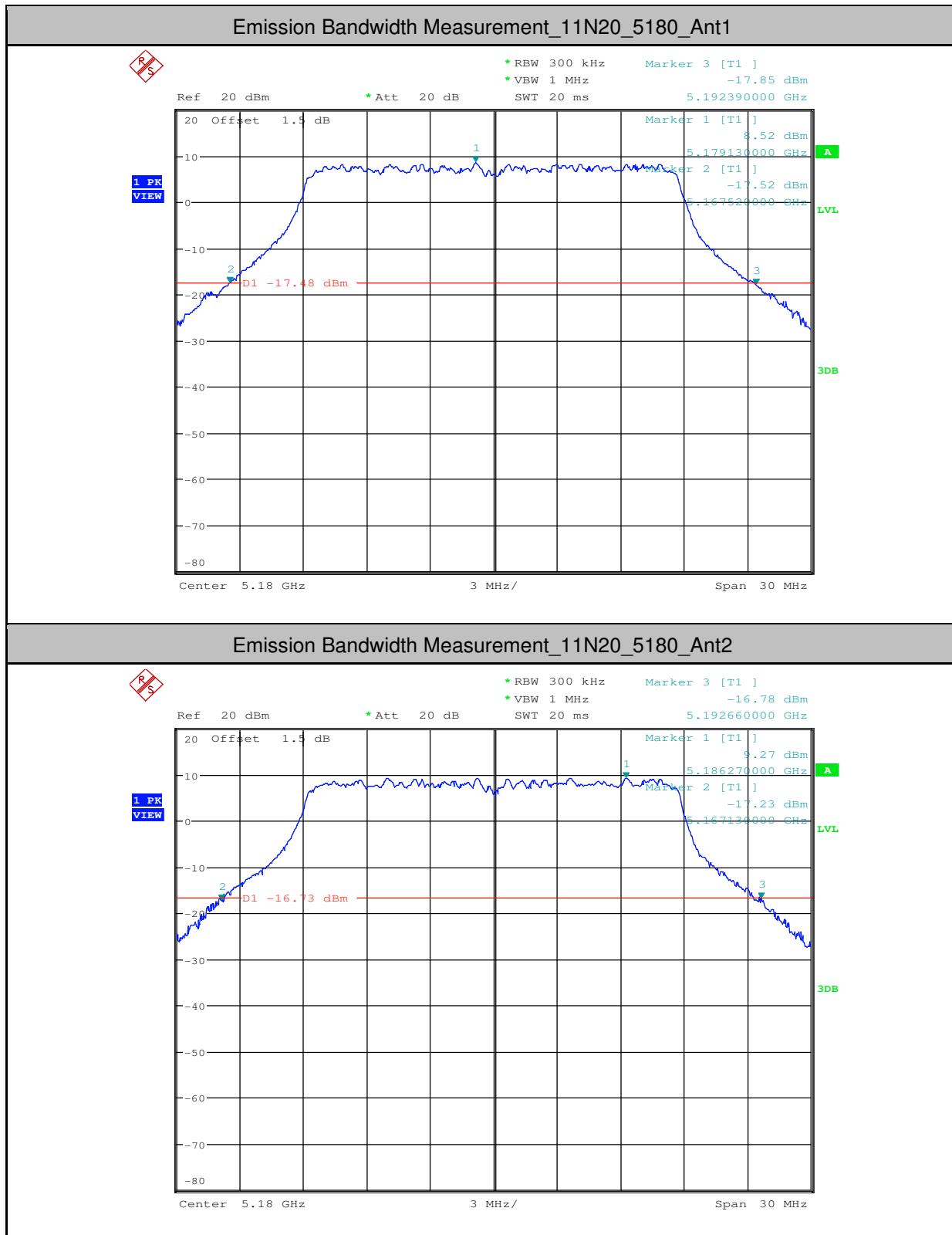
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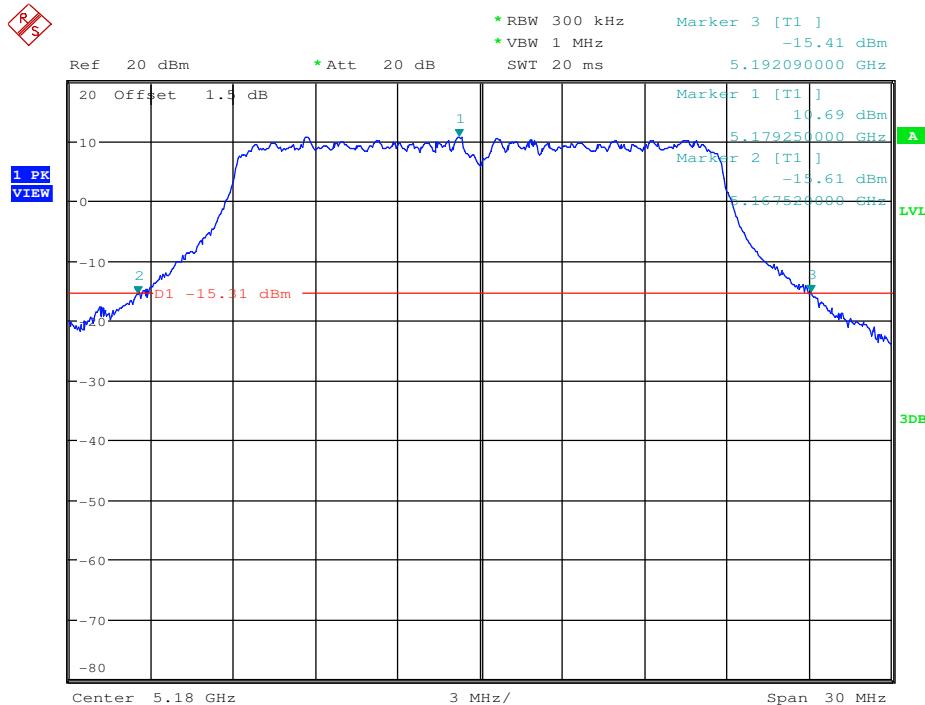




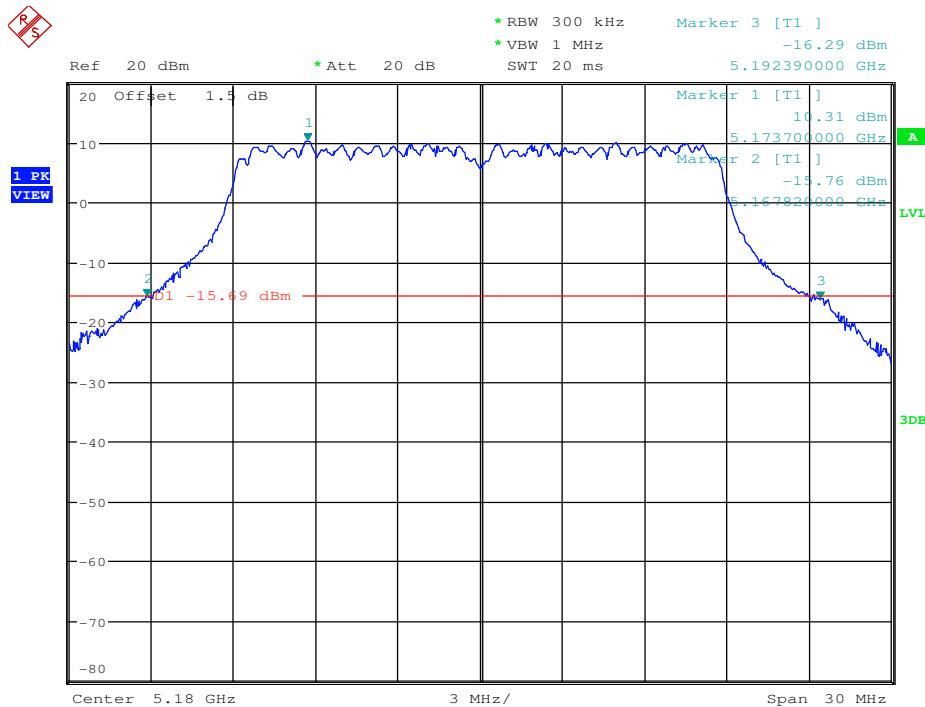
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Emission Bandwidth Measurement\_11N20\_5180\_Ant3

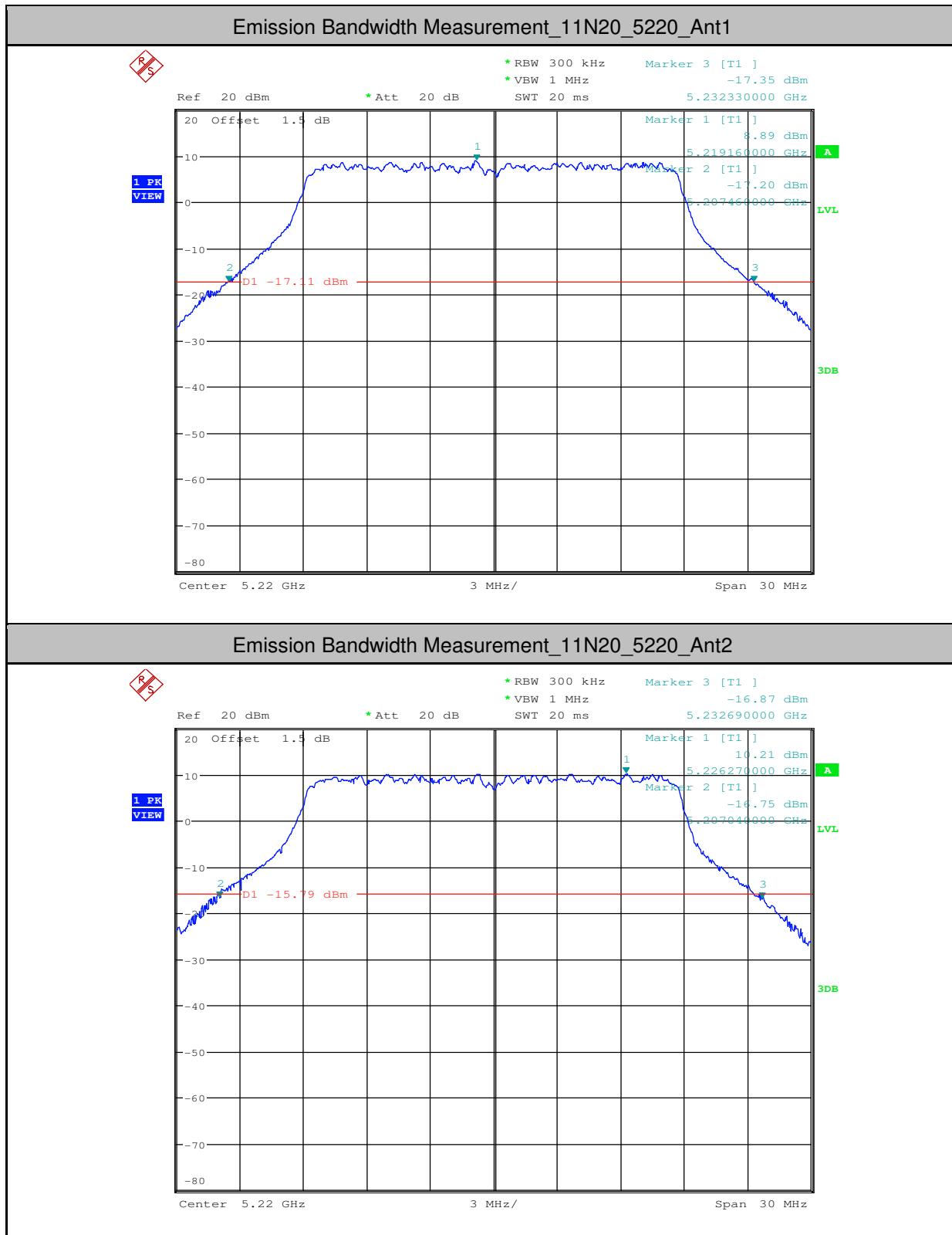


Emission Bandwidth Measurement\_11N20\_5180\_Ant4



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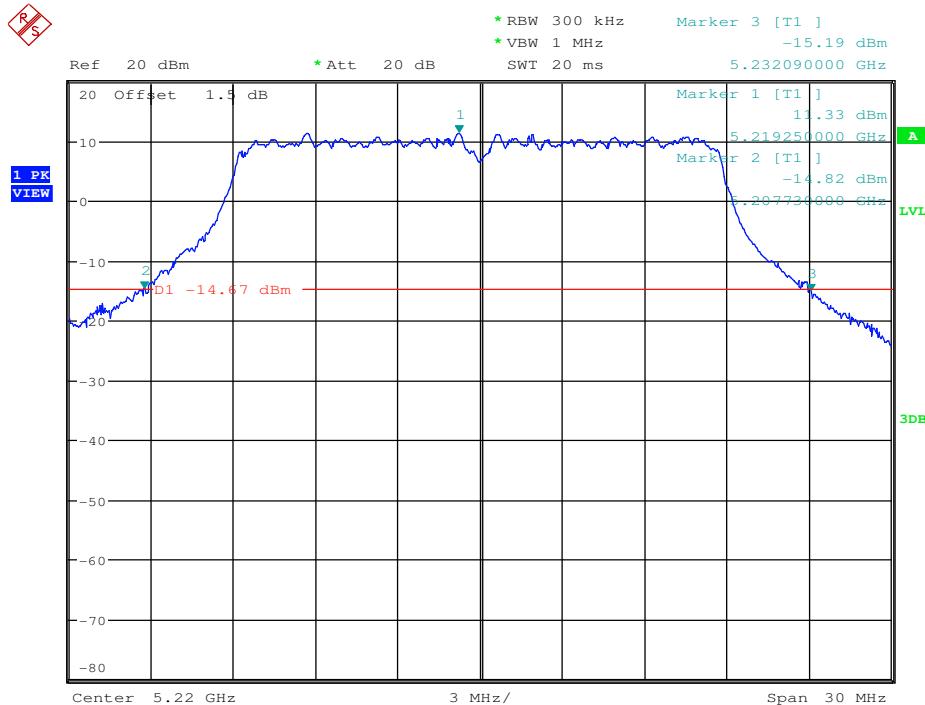
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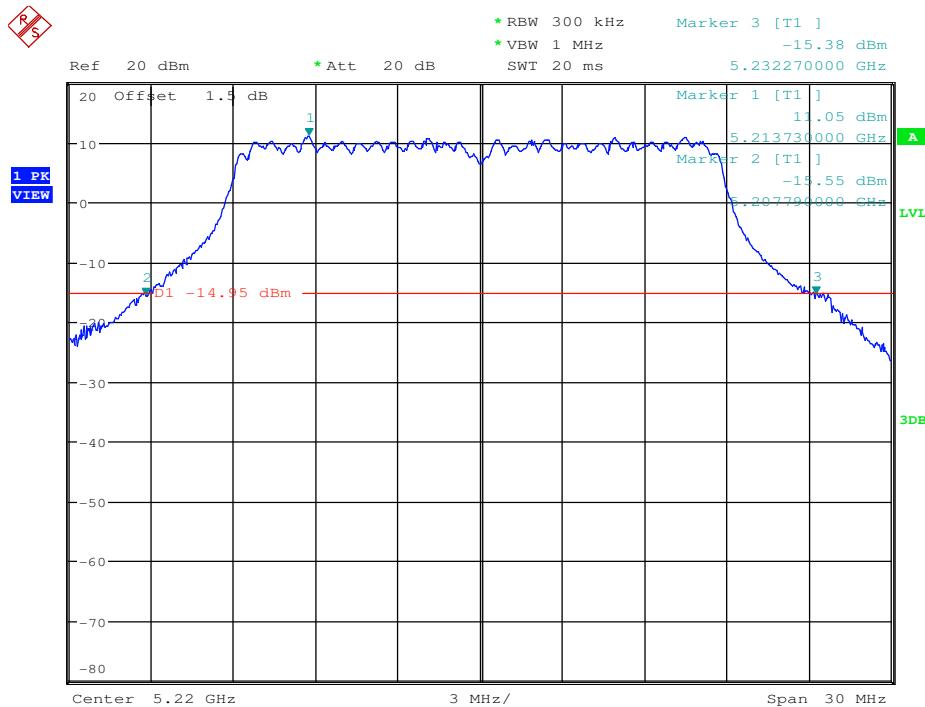
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Emission Bandwidth Measurement\_11N20\_5220\_Ant3



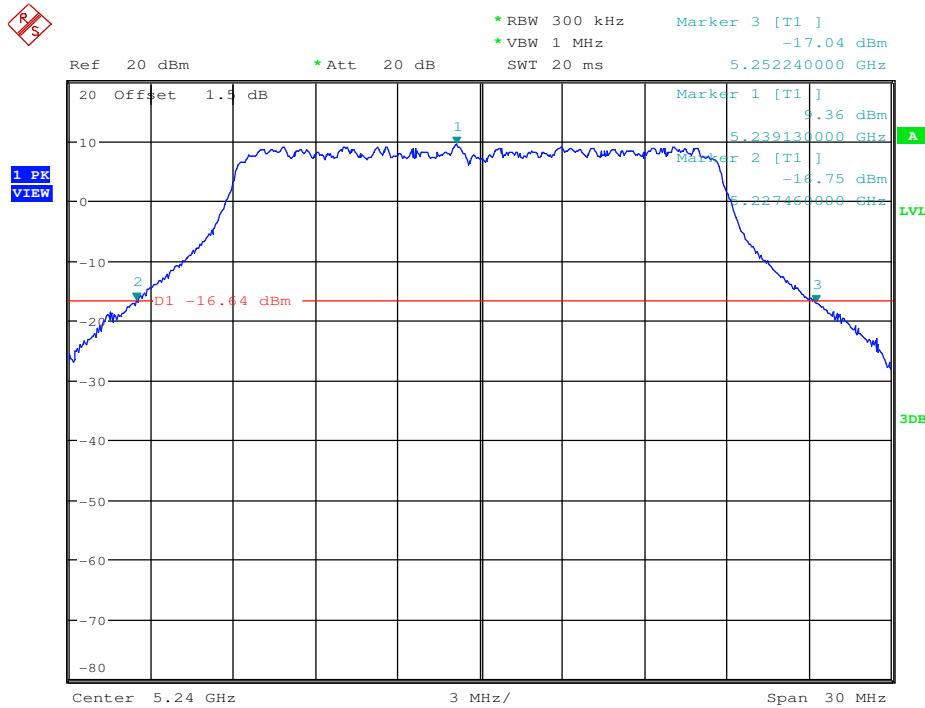
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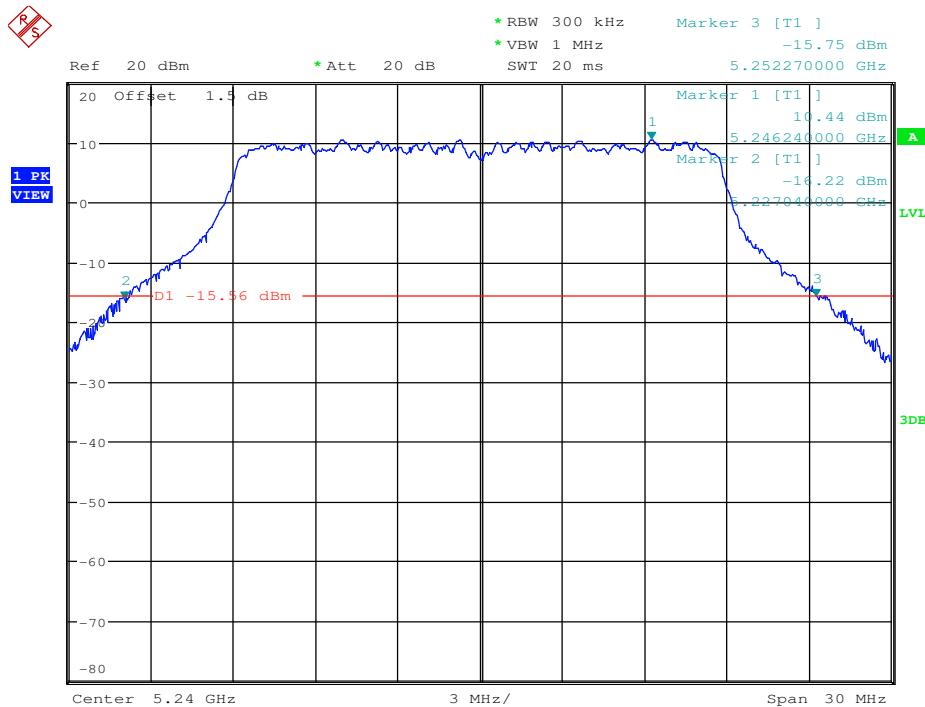
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Emission Bandwidth Measurement\_11N20\_5240\_Ant1



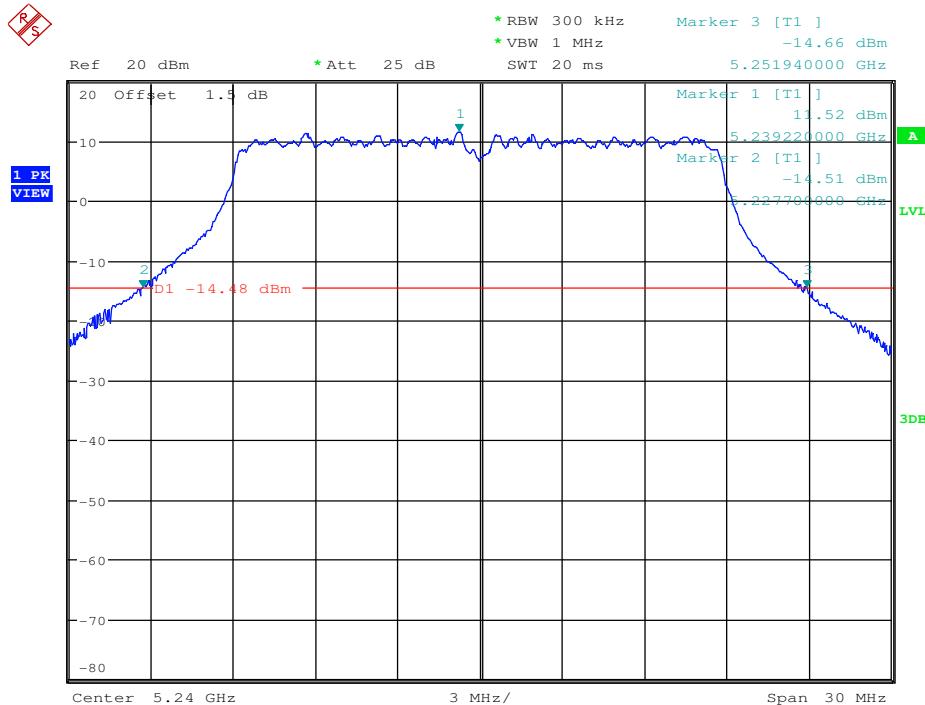
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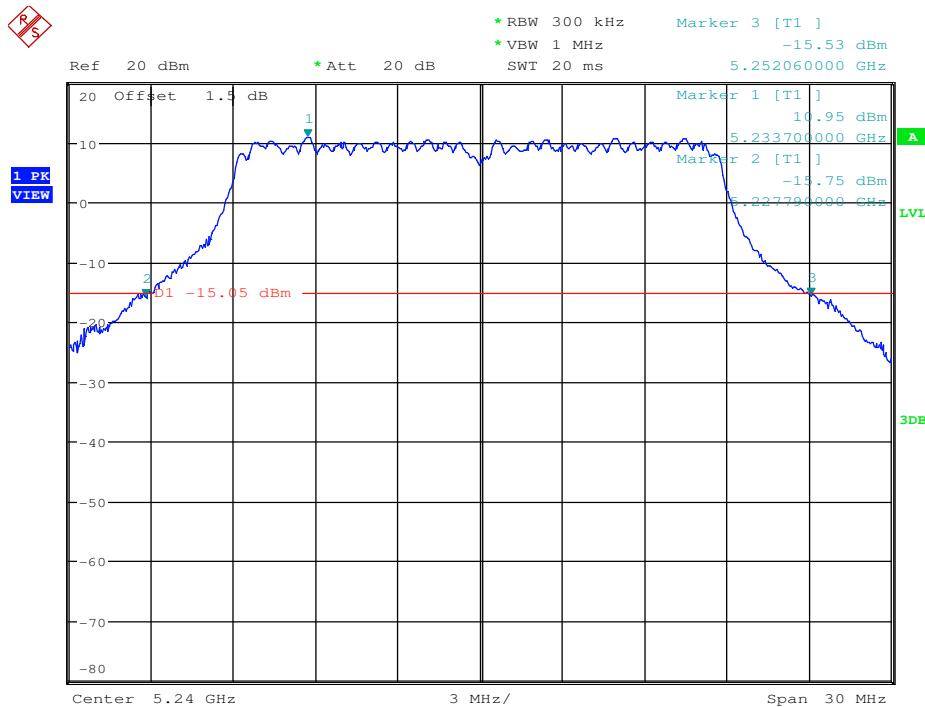
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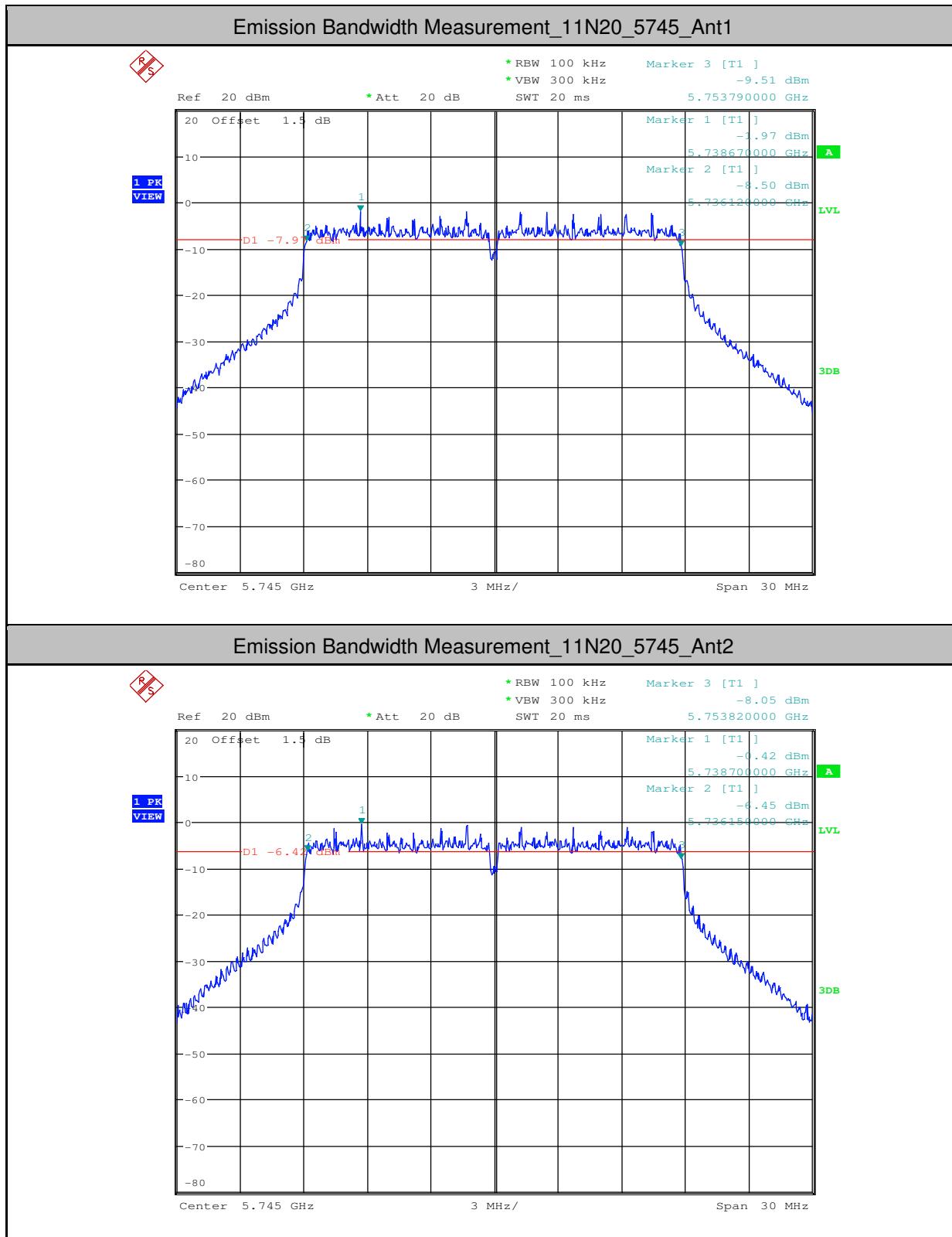


Emission Bandwidth Measurement\_11N20\_5240\_Ant4



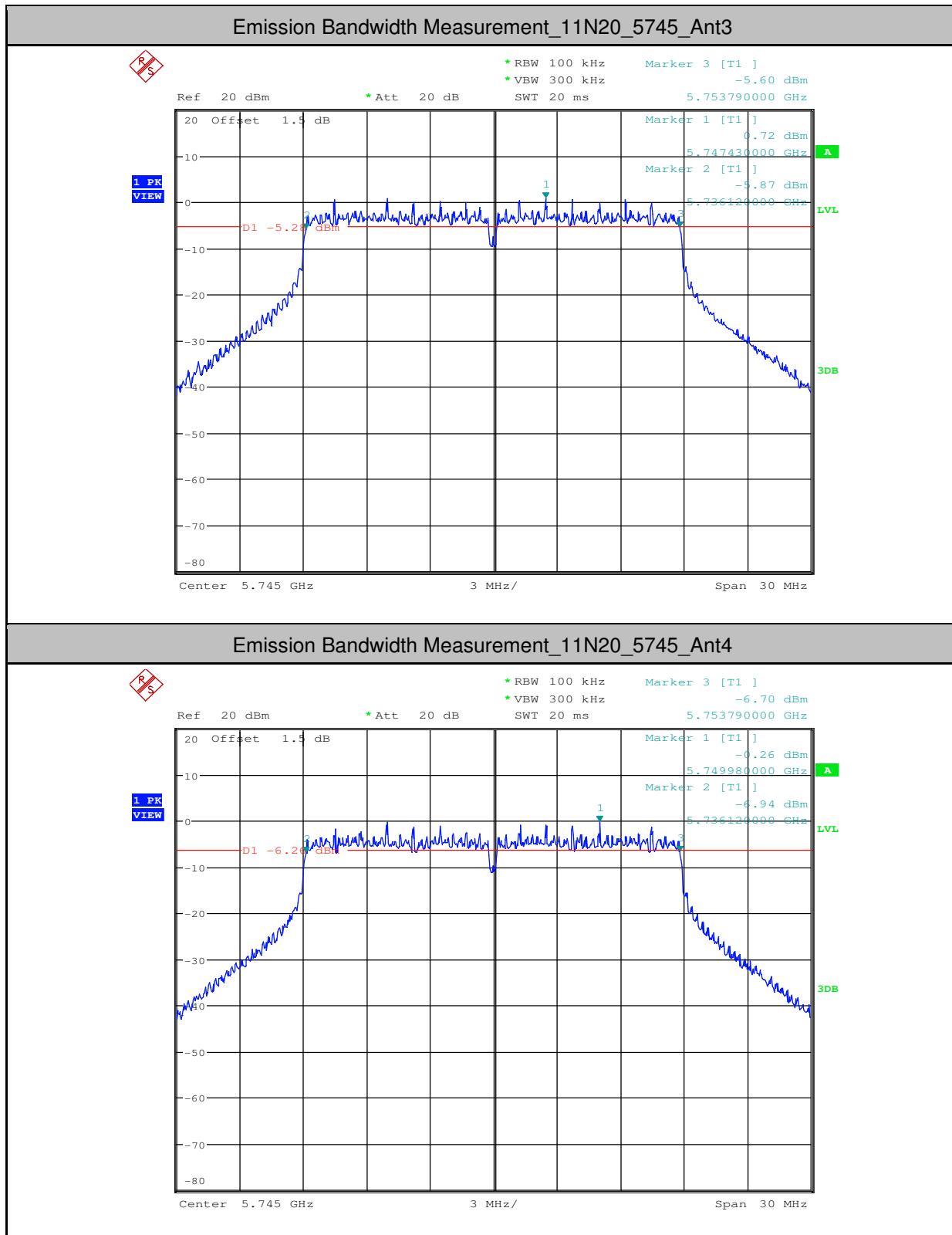
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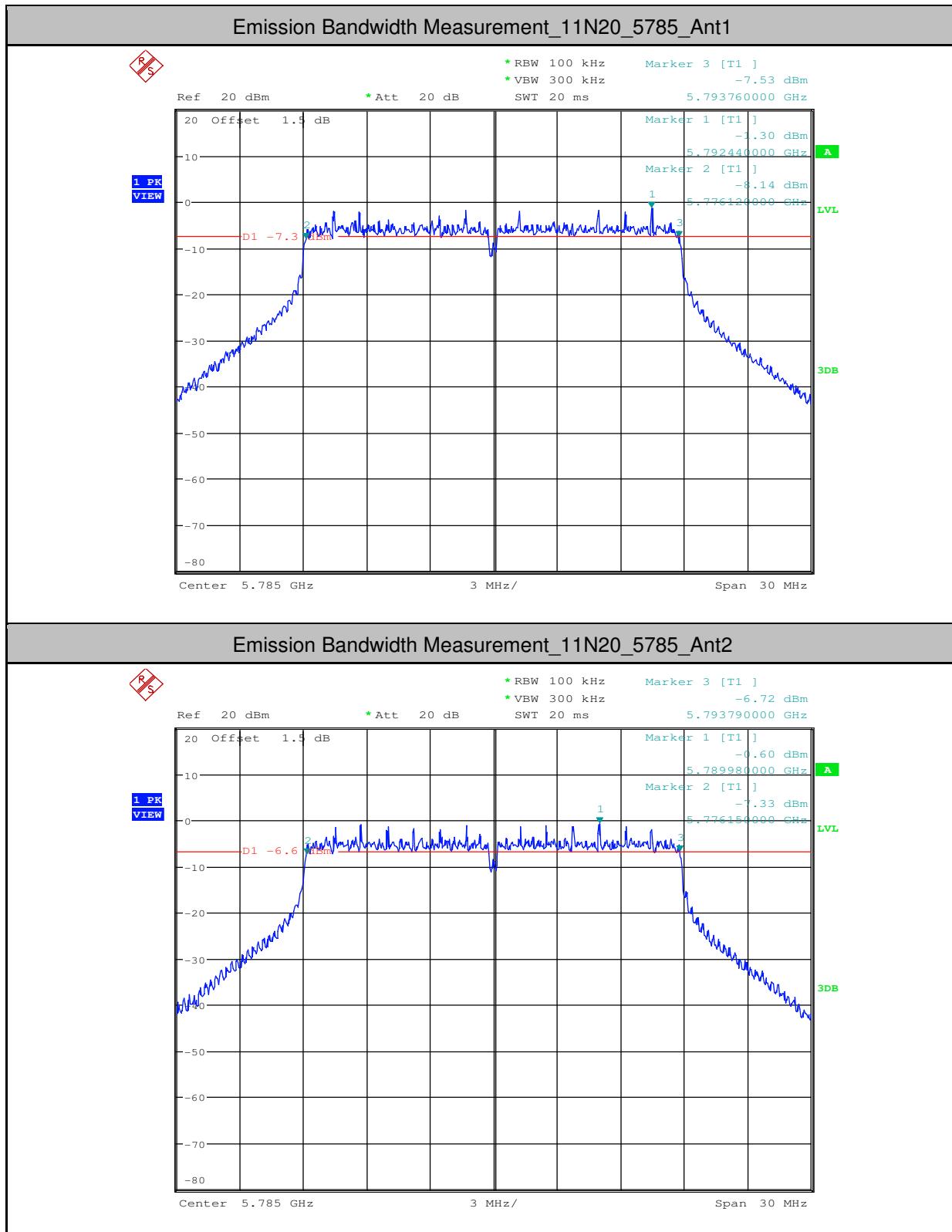
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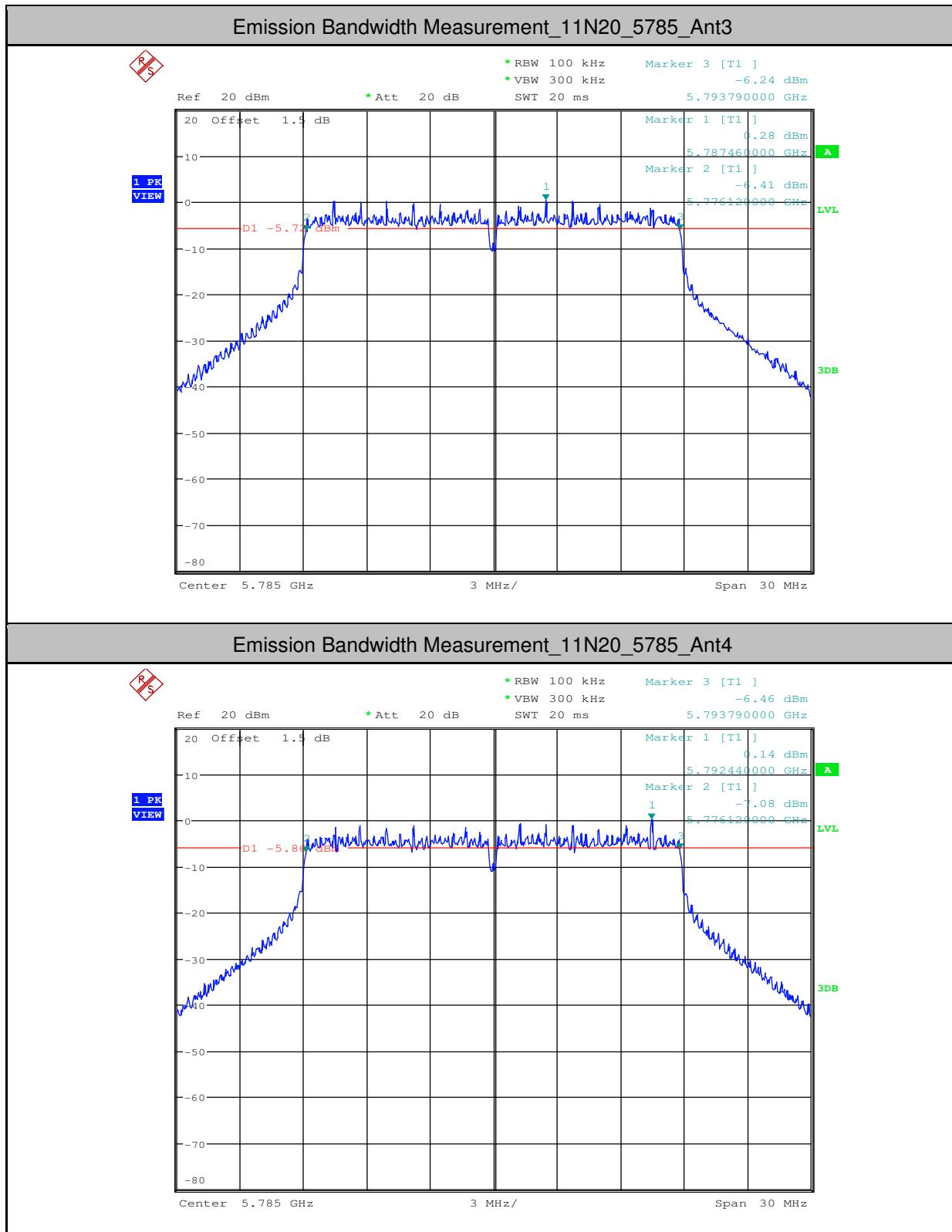


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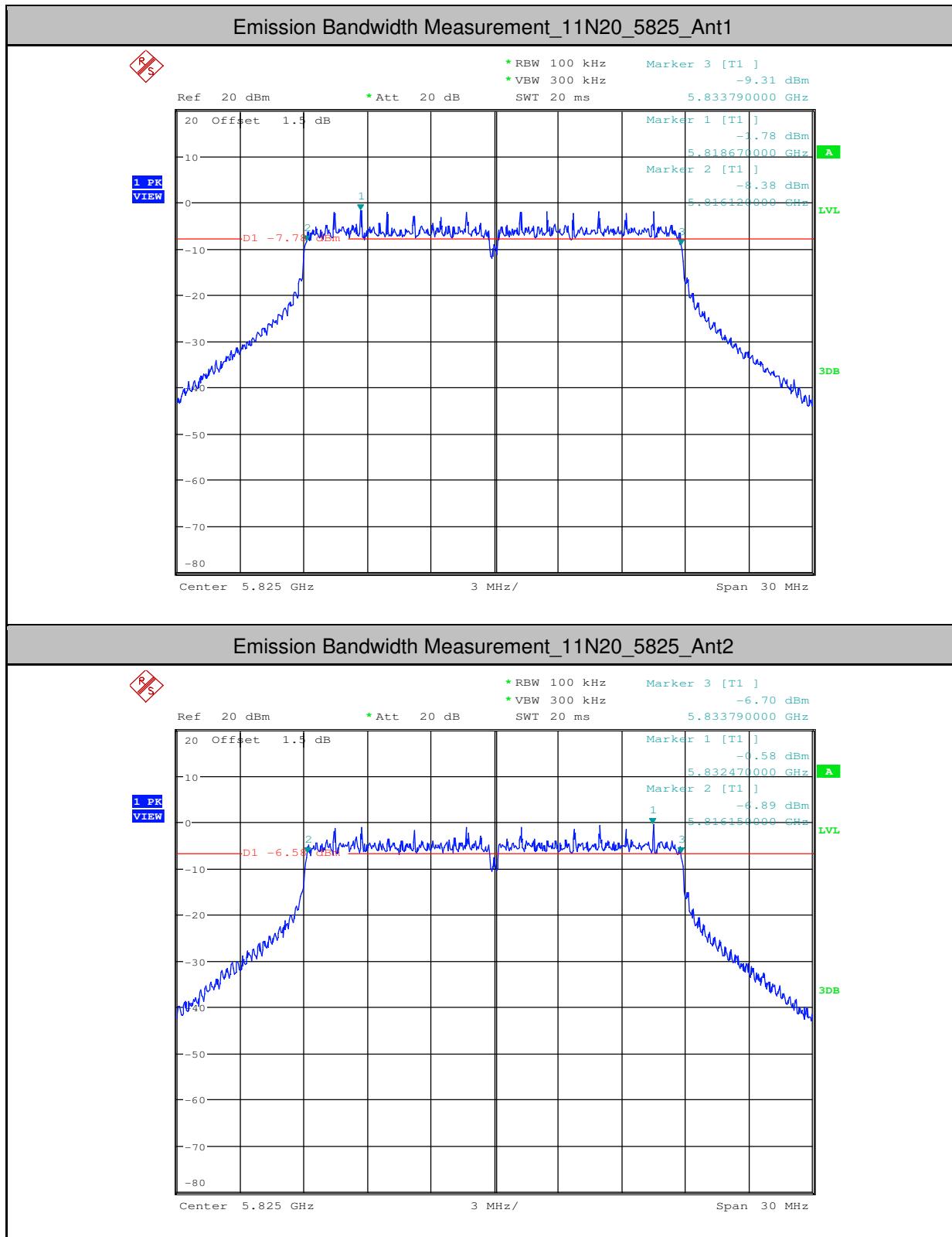


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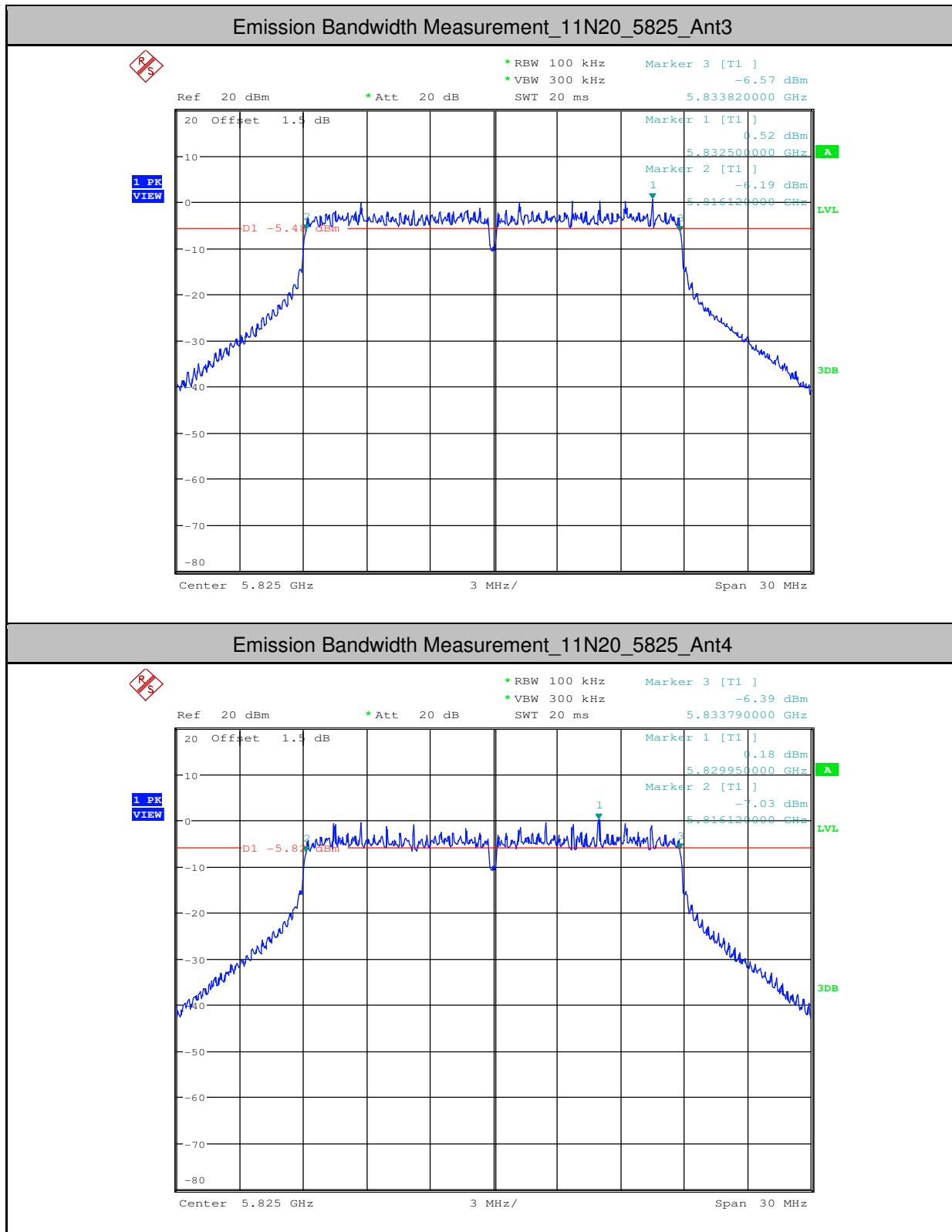
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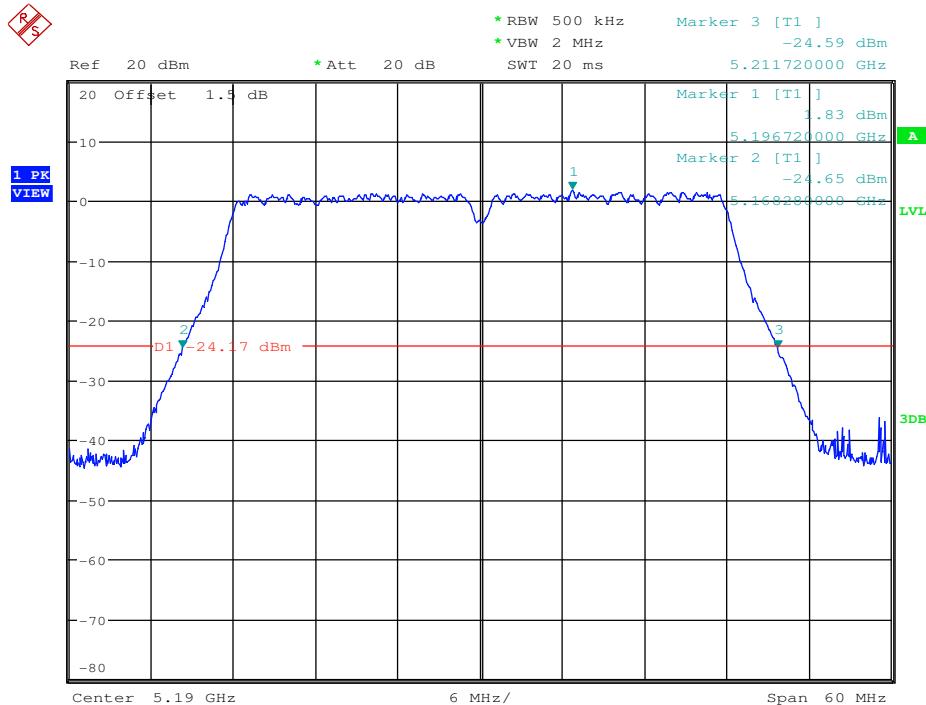
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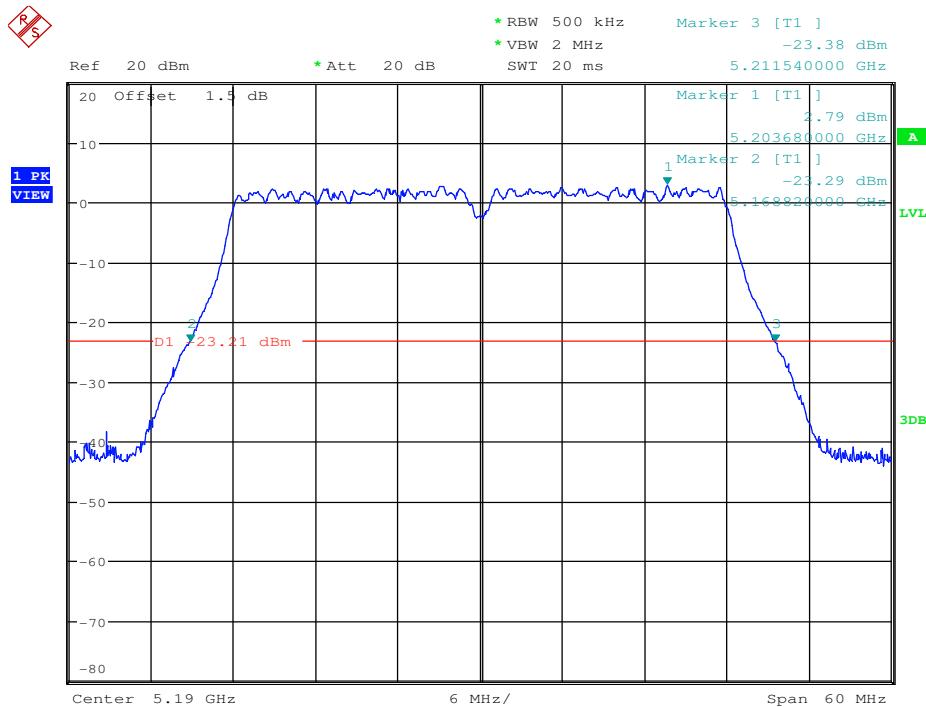
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Emission Bandwidth Measurement\_11N40\_5190\_Ant1



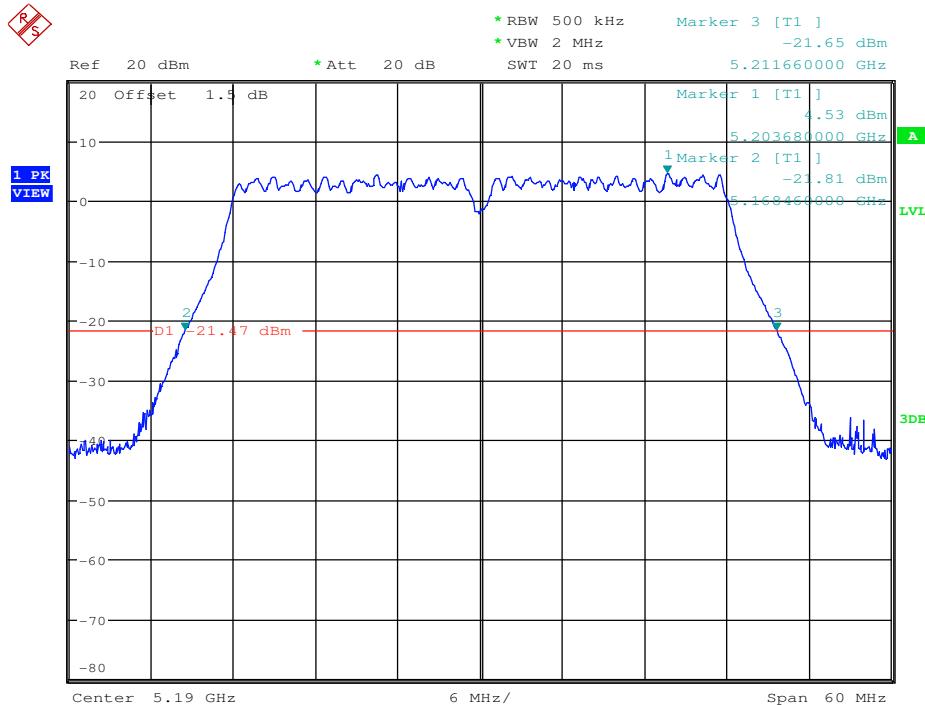
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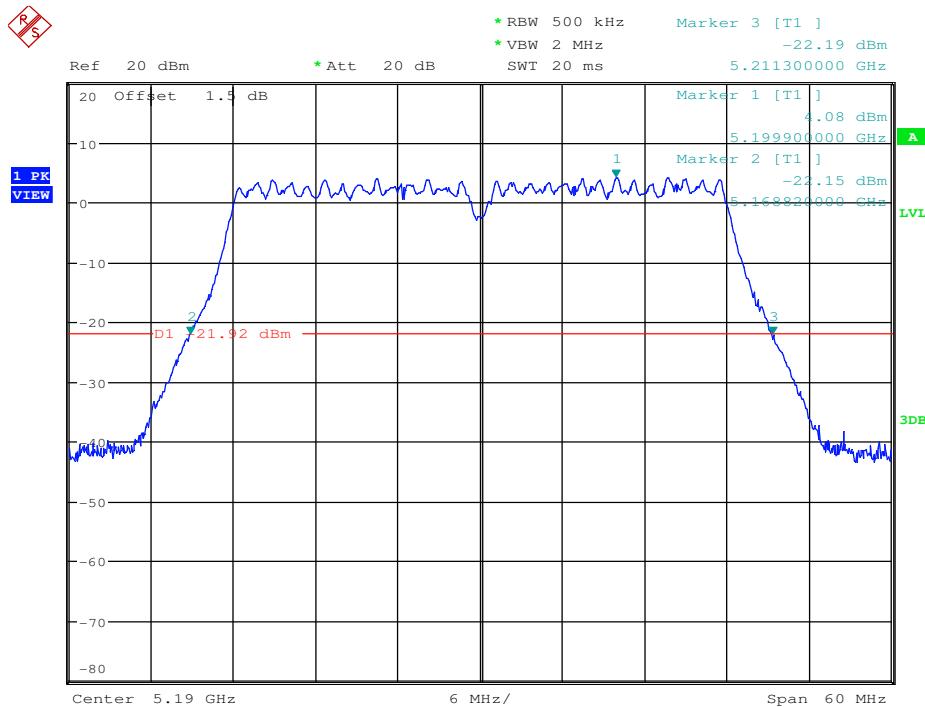
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Emission Bandwidth Measurement\_11N40\_5190\_Ant3



Emission Bandwidth Measurement\_11N40\_5190\_Ant4



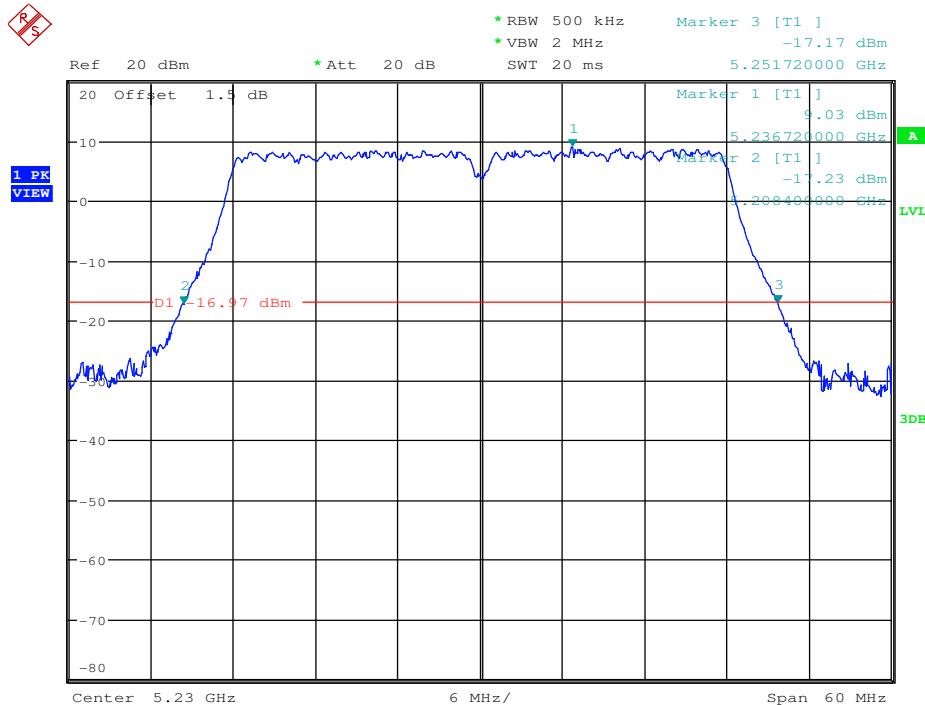
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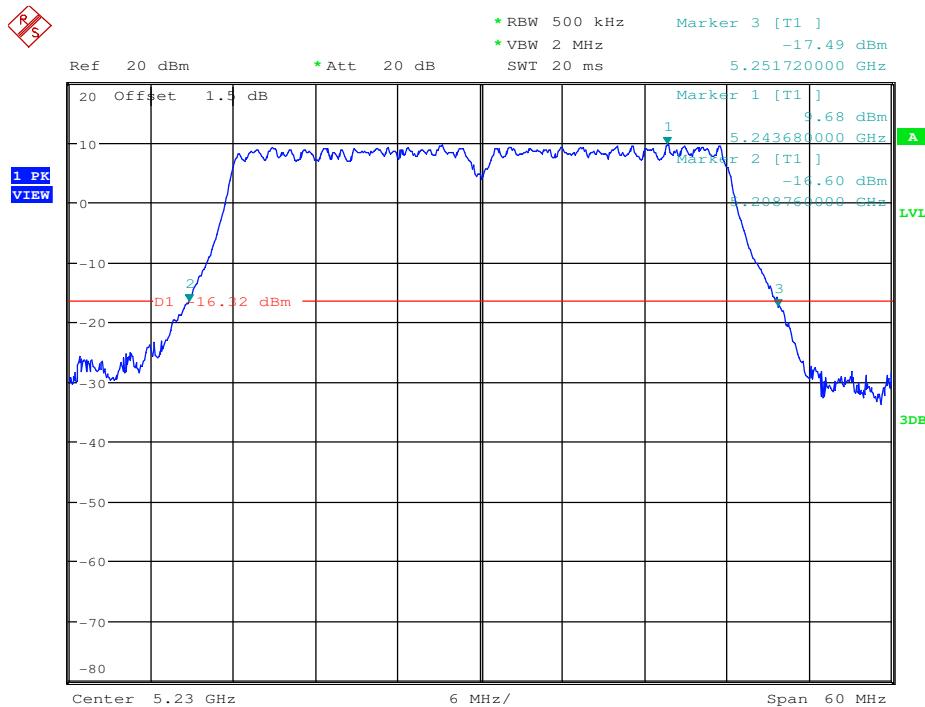
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Emission Bandwidth Measurement\_11N40\_5230\_Ant1



Emission Bandwidth Measurement\_11N40\_5230\_Ant2

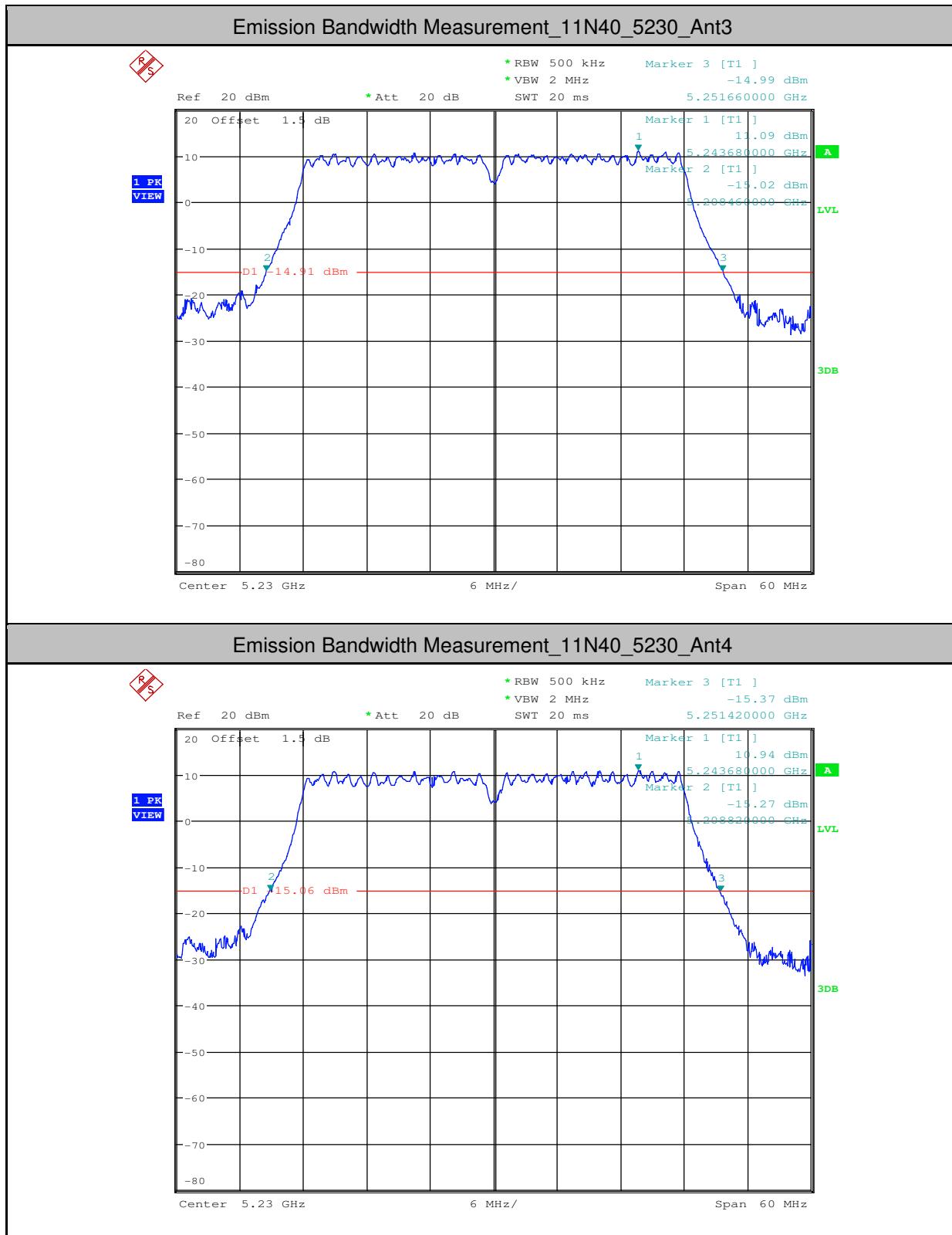


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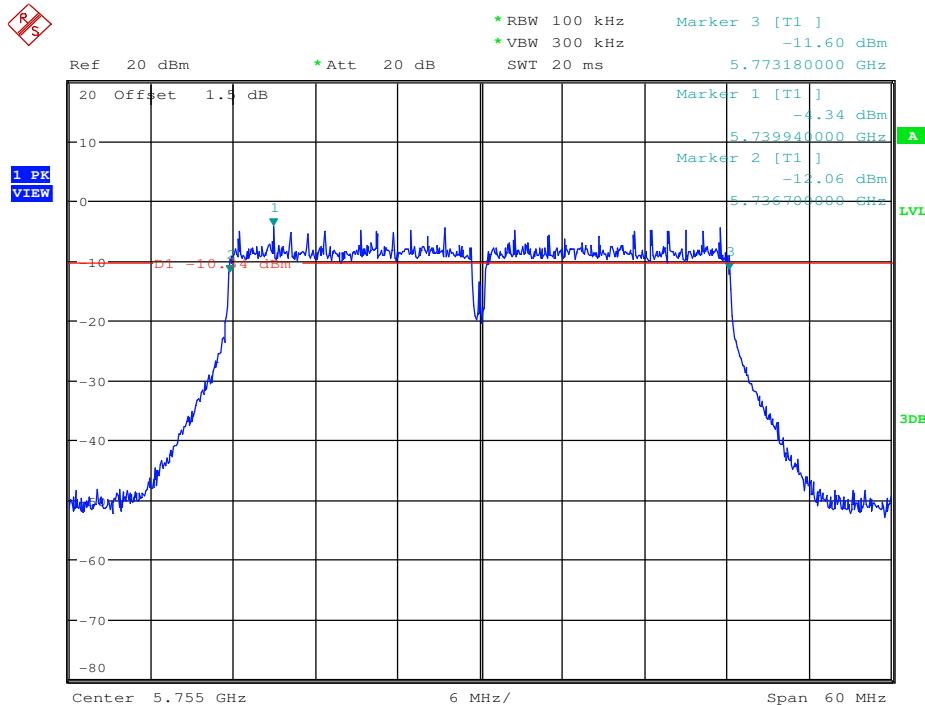
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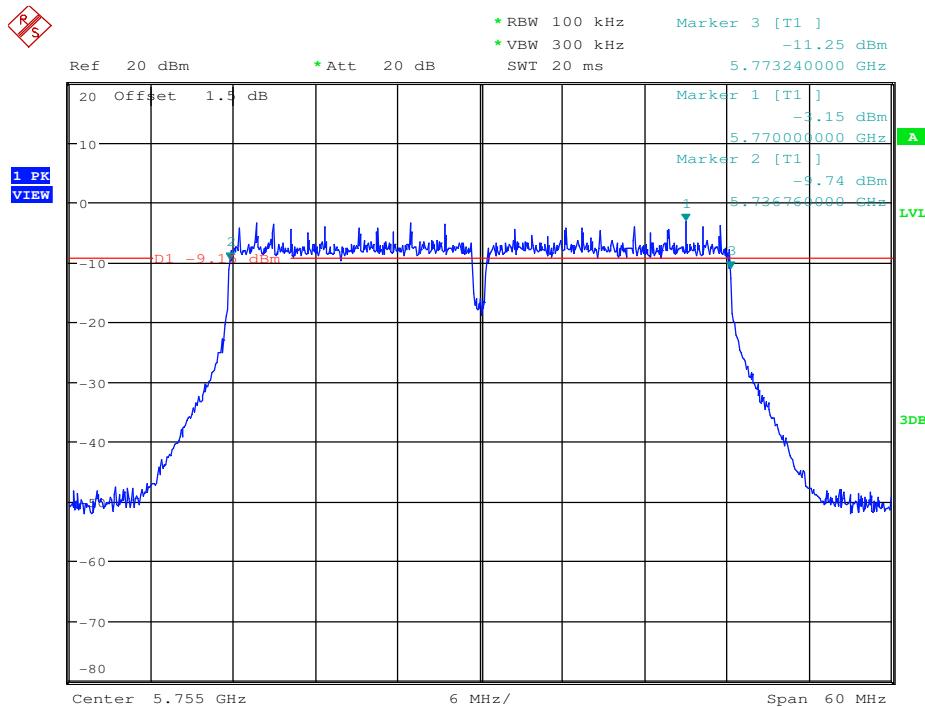
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Emission Bandwidth Measurement\_11N40\_5755\_Ant1

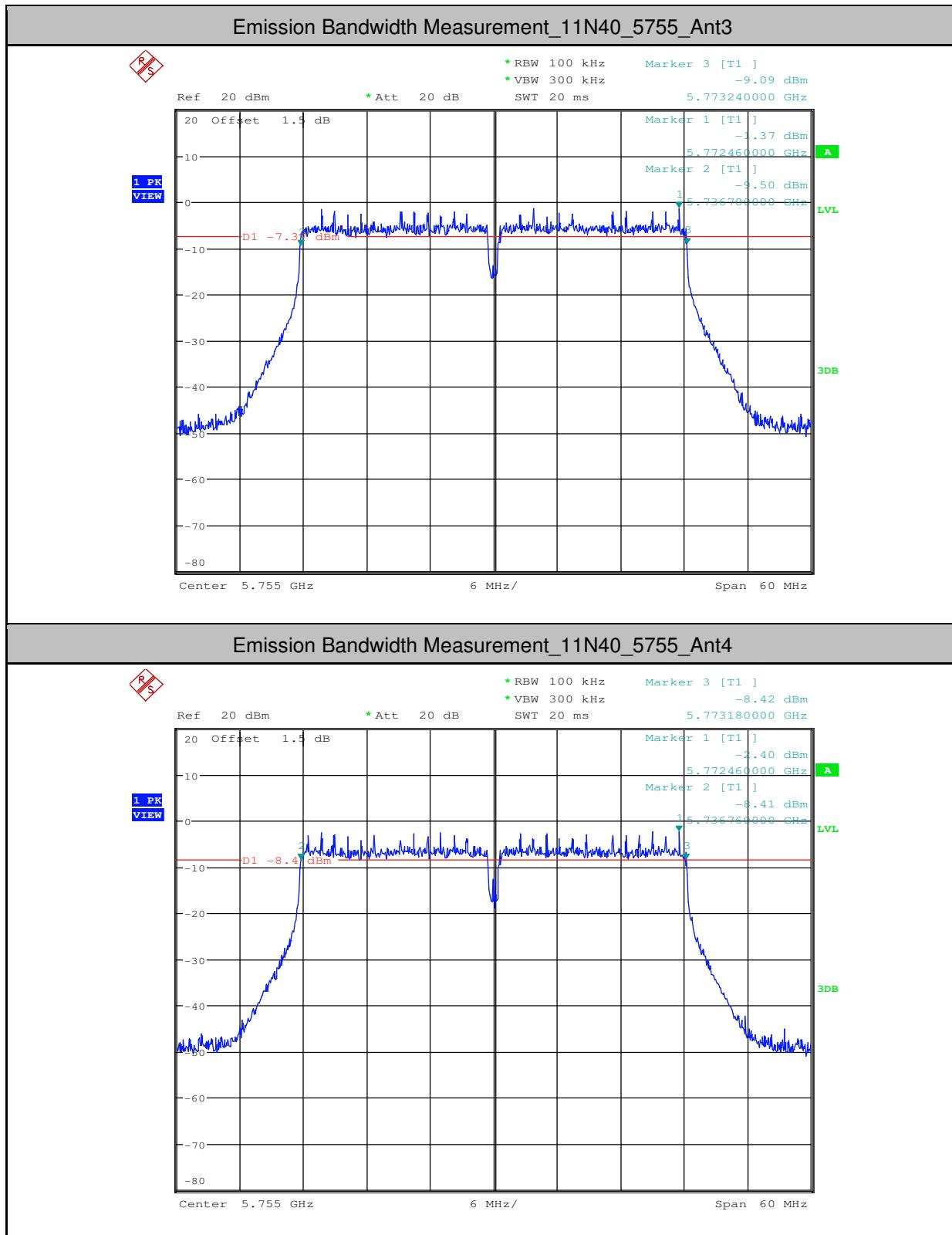


Emission Bandwidth Measurement\_11N40\_5755\_Ant2



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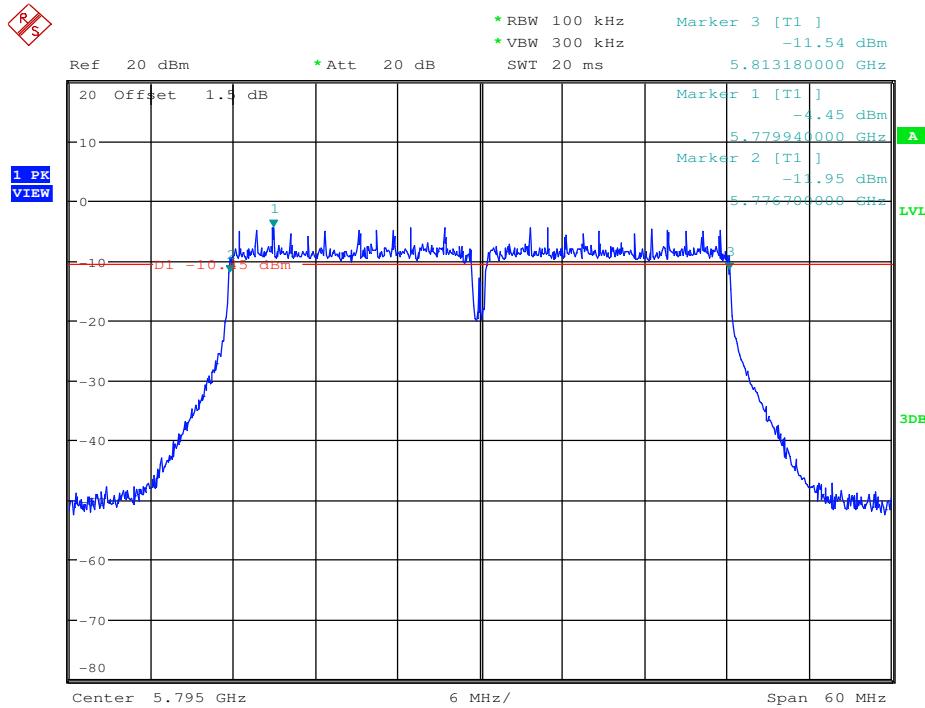
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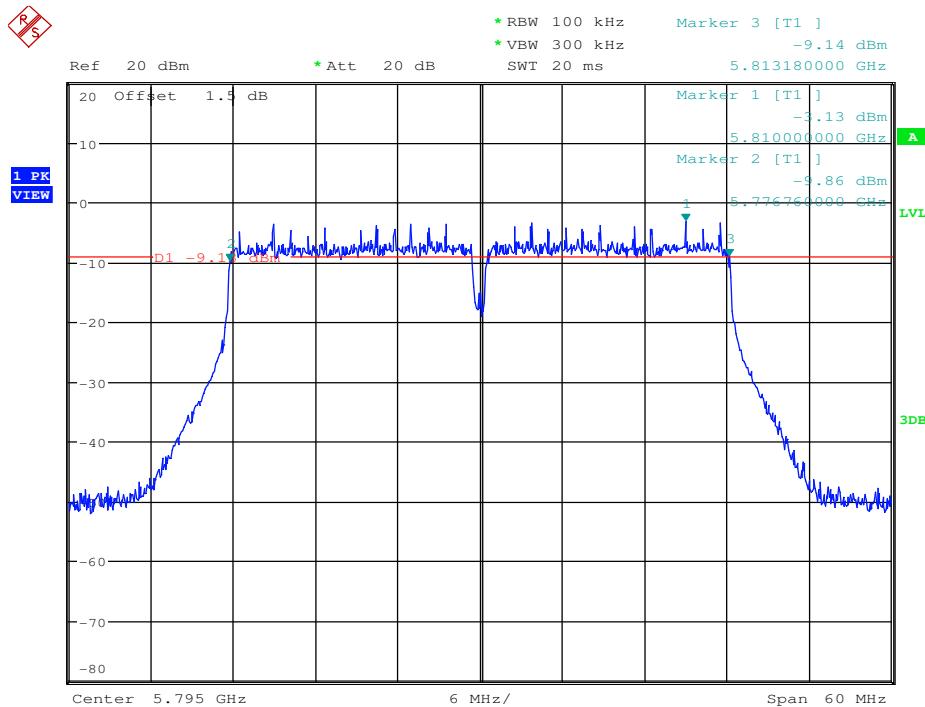
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Emission Bandwidth Measurement\_11N40\_5795\_Ant1



Emission Bandwidth Measurement\_11N40\_5795\_Ant2



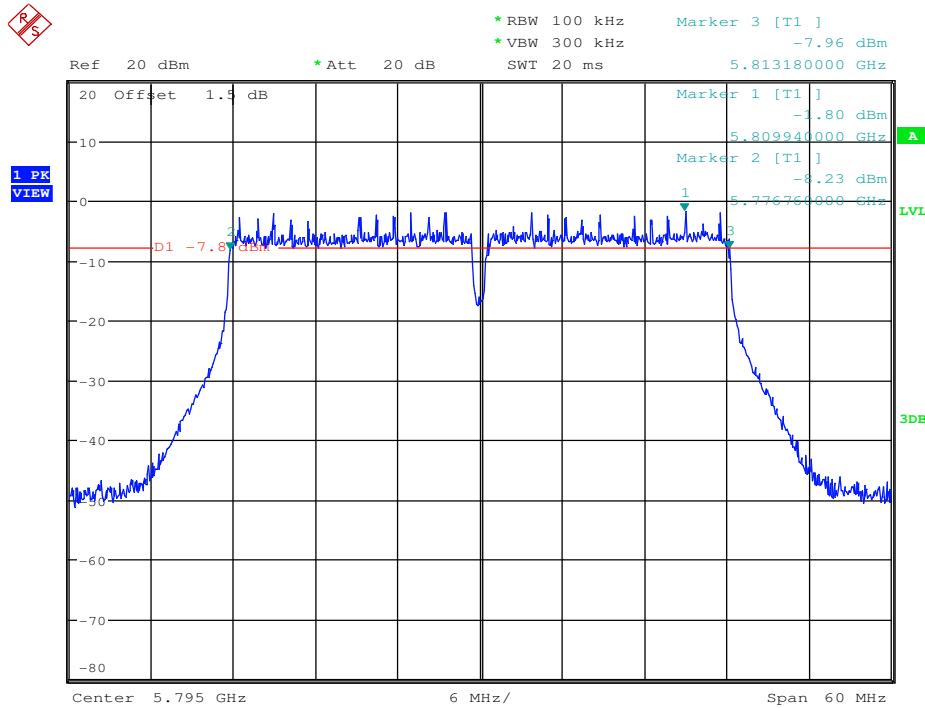
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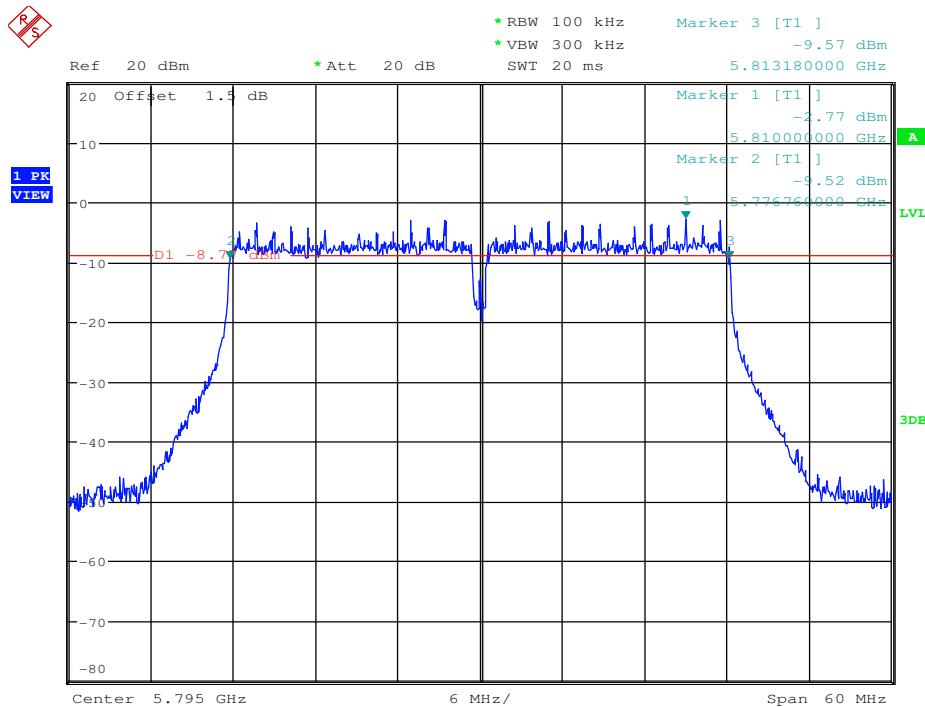
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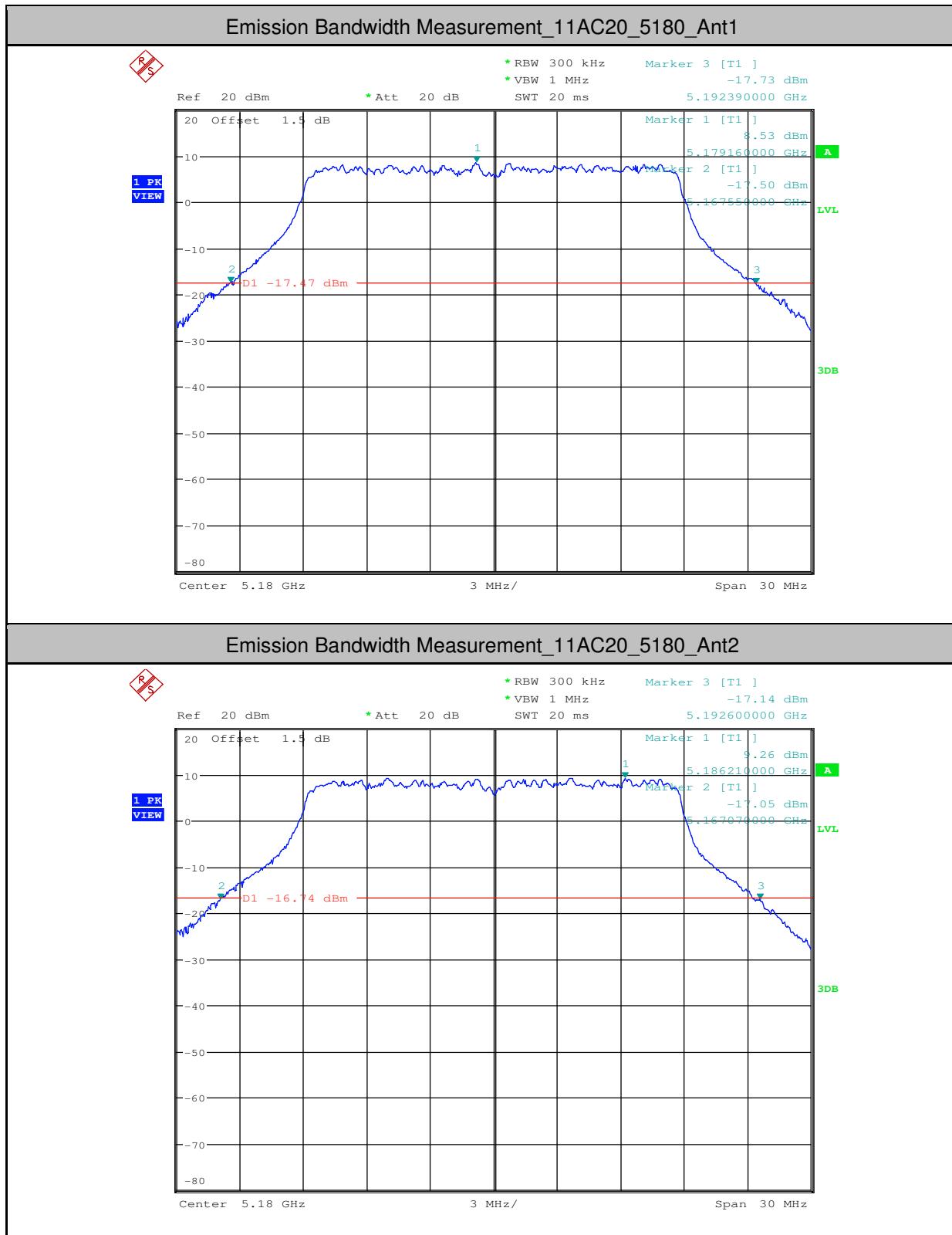


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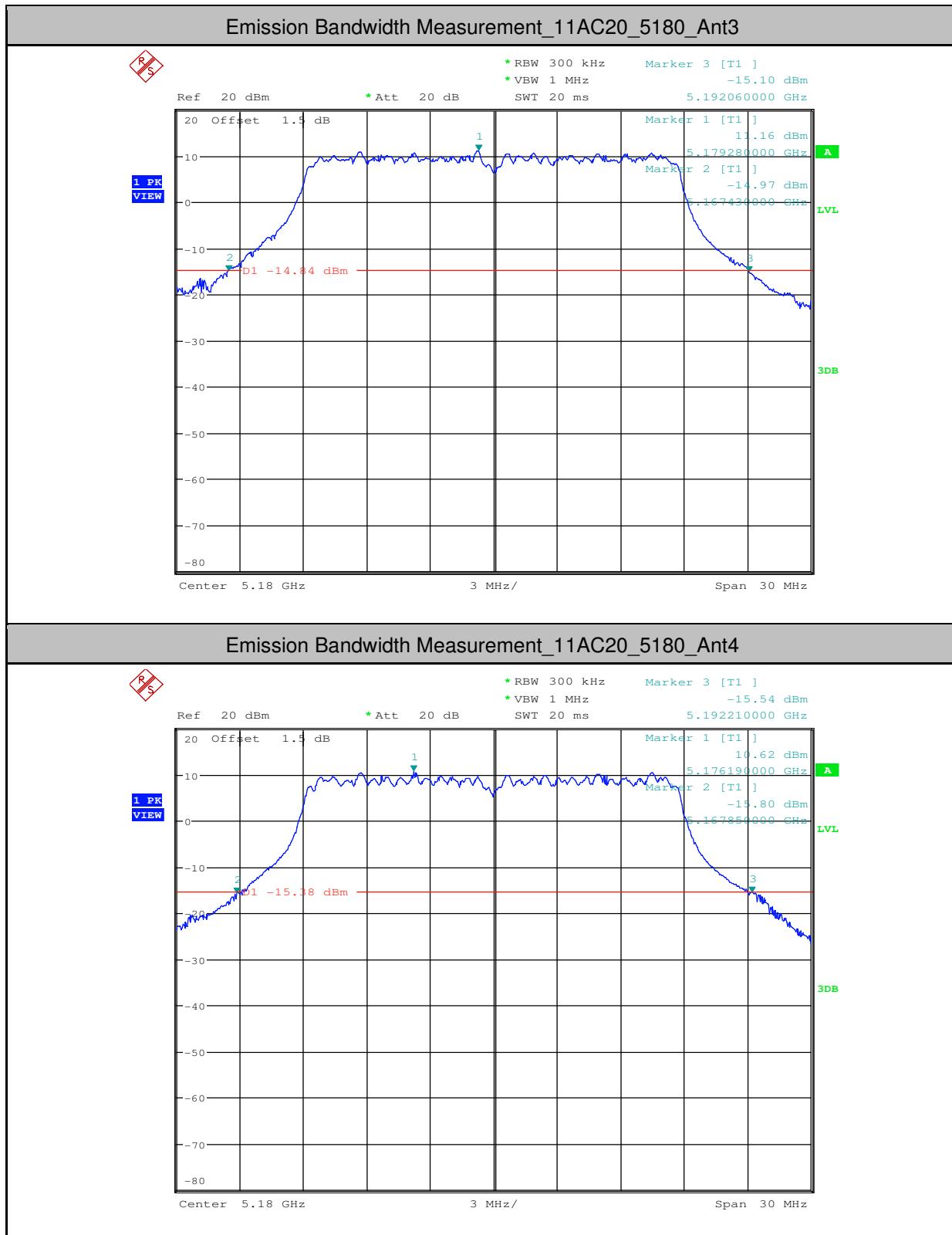


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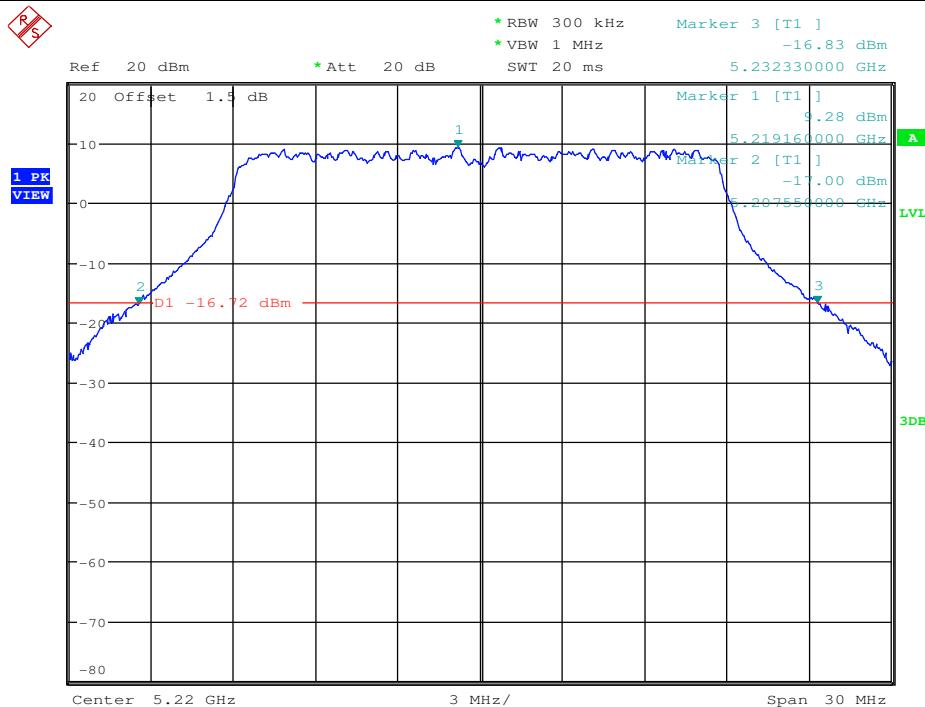
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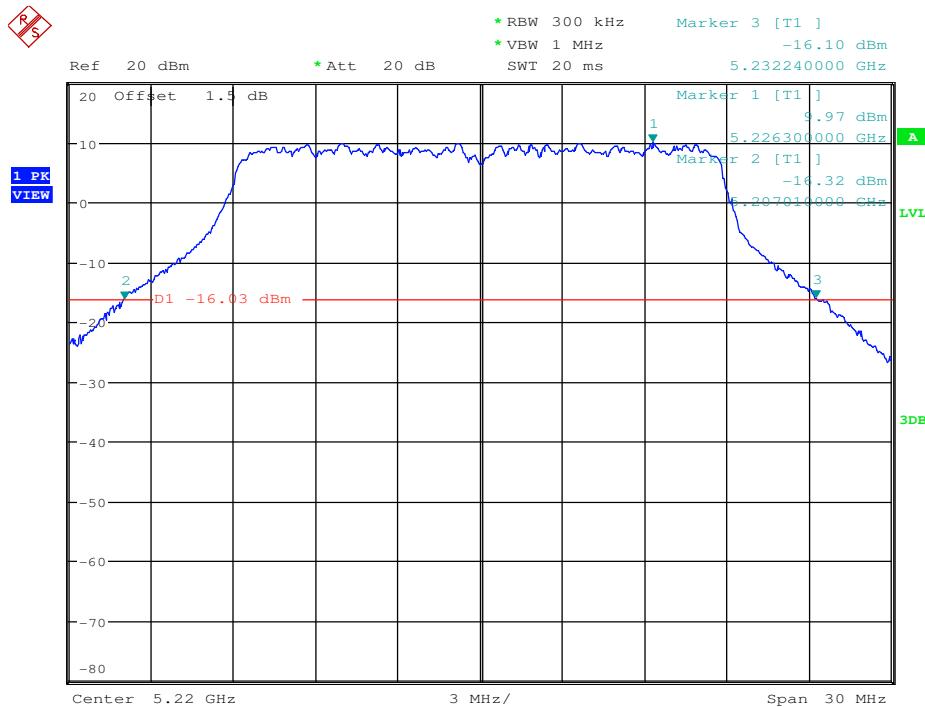
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Emission Bandwidth Measurement\_11AC20\_5220\_Ant1



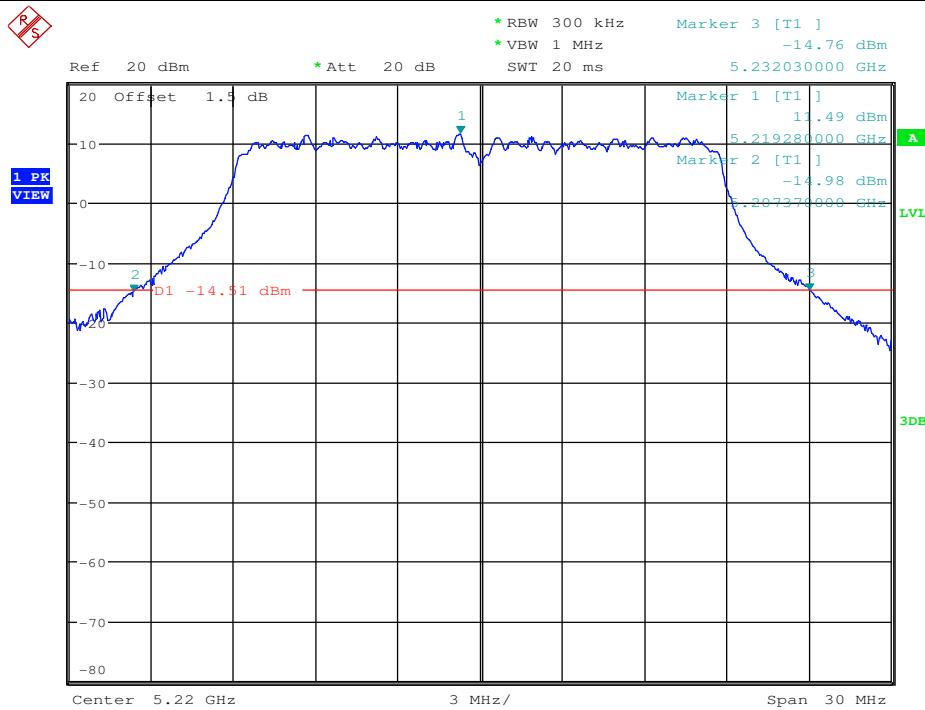
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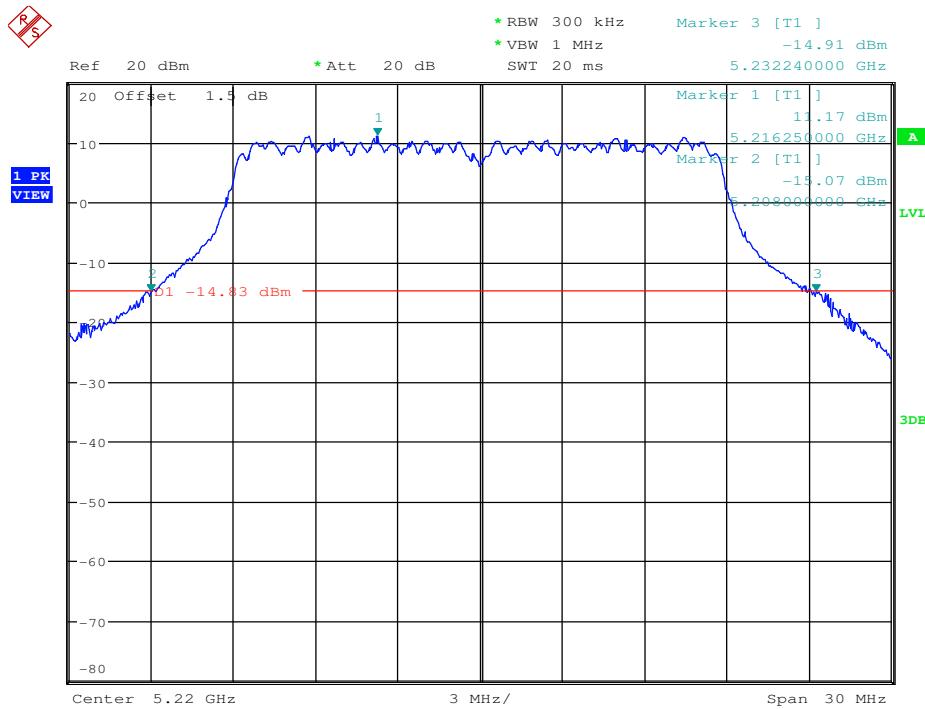
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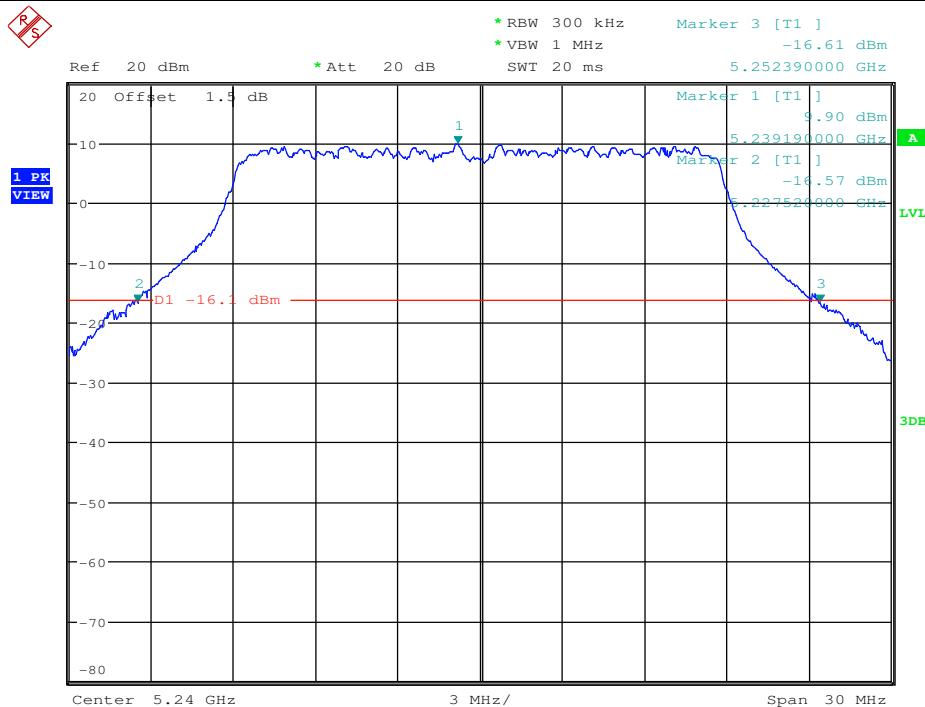
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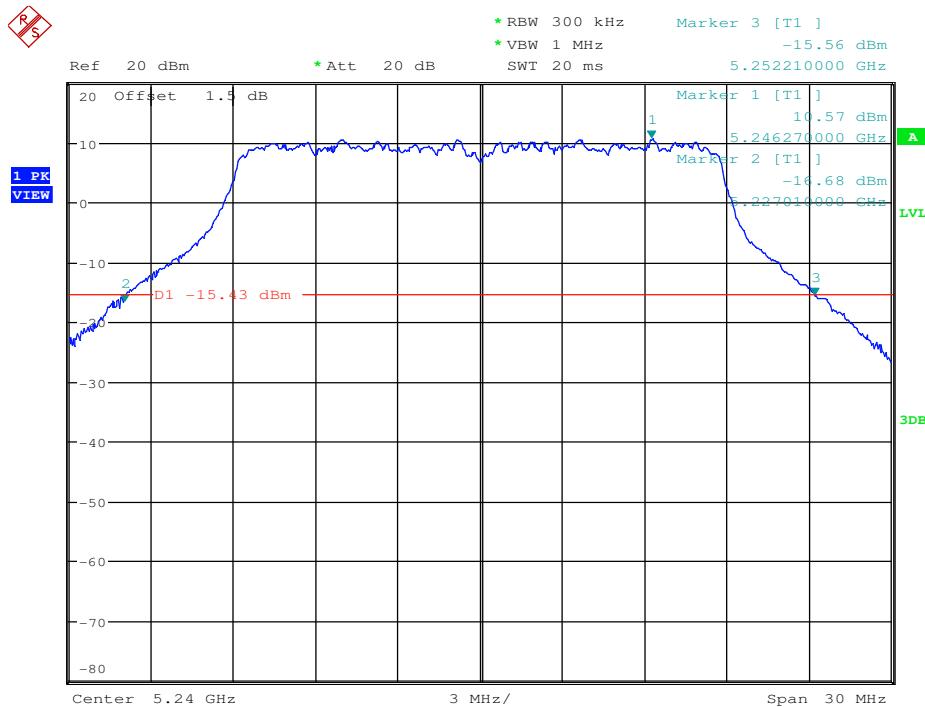
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Emission Bandwidth Measurement\_11AC20\_5240\_Ant1



Emission Bandwidth Measurement\_11AC20\_5240\_Ant2



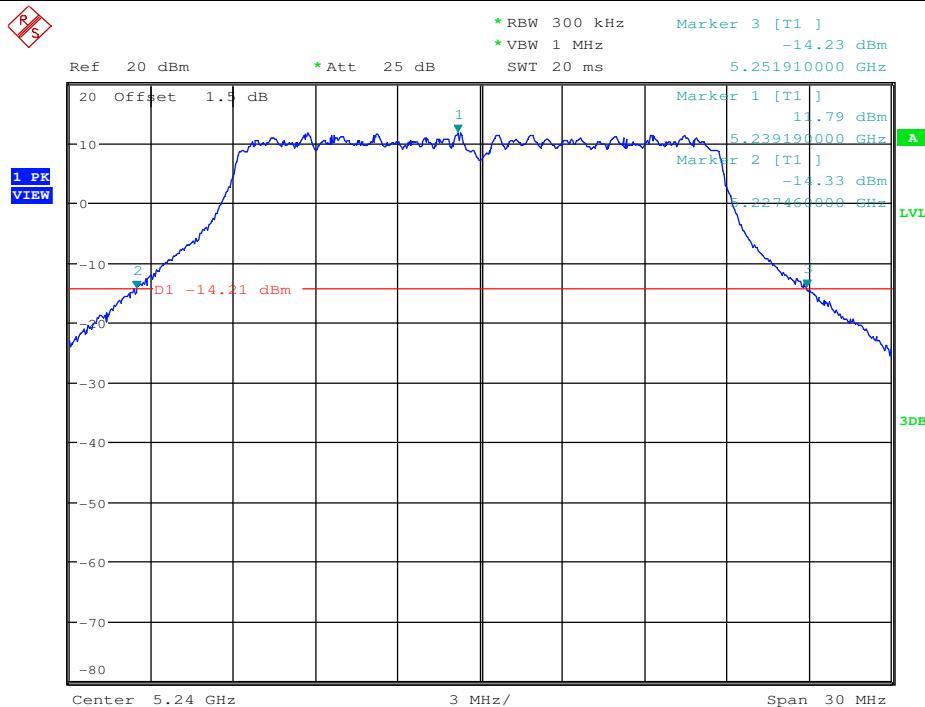
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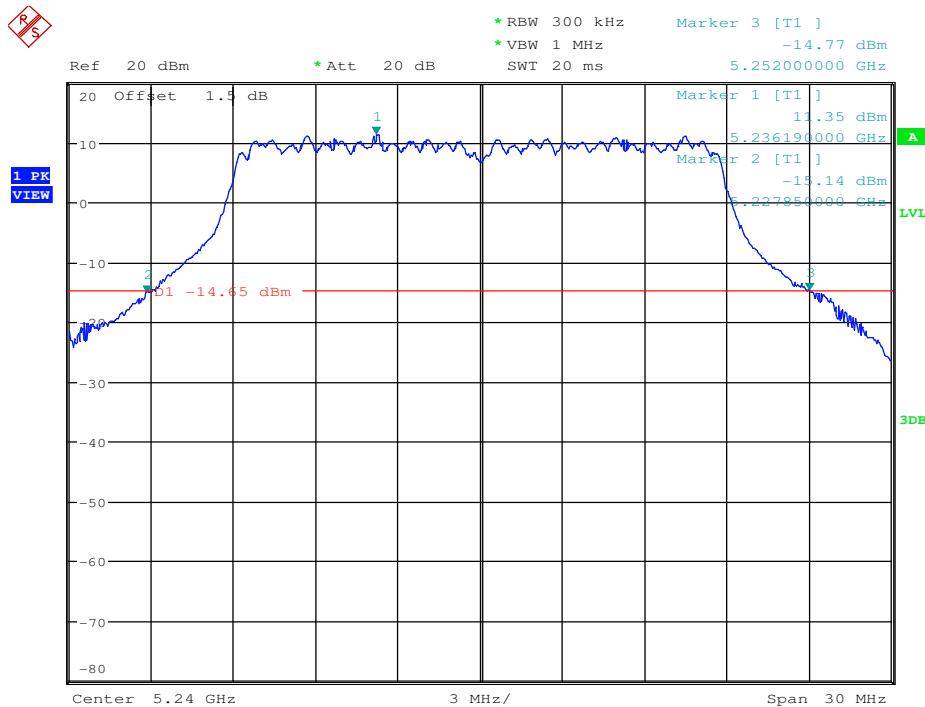
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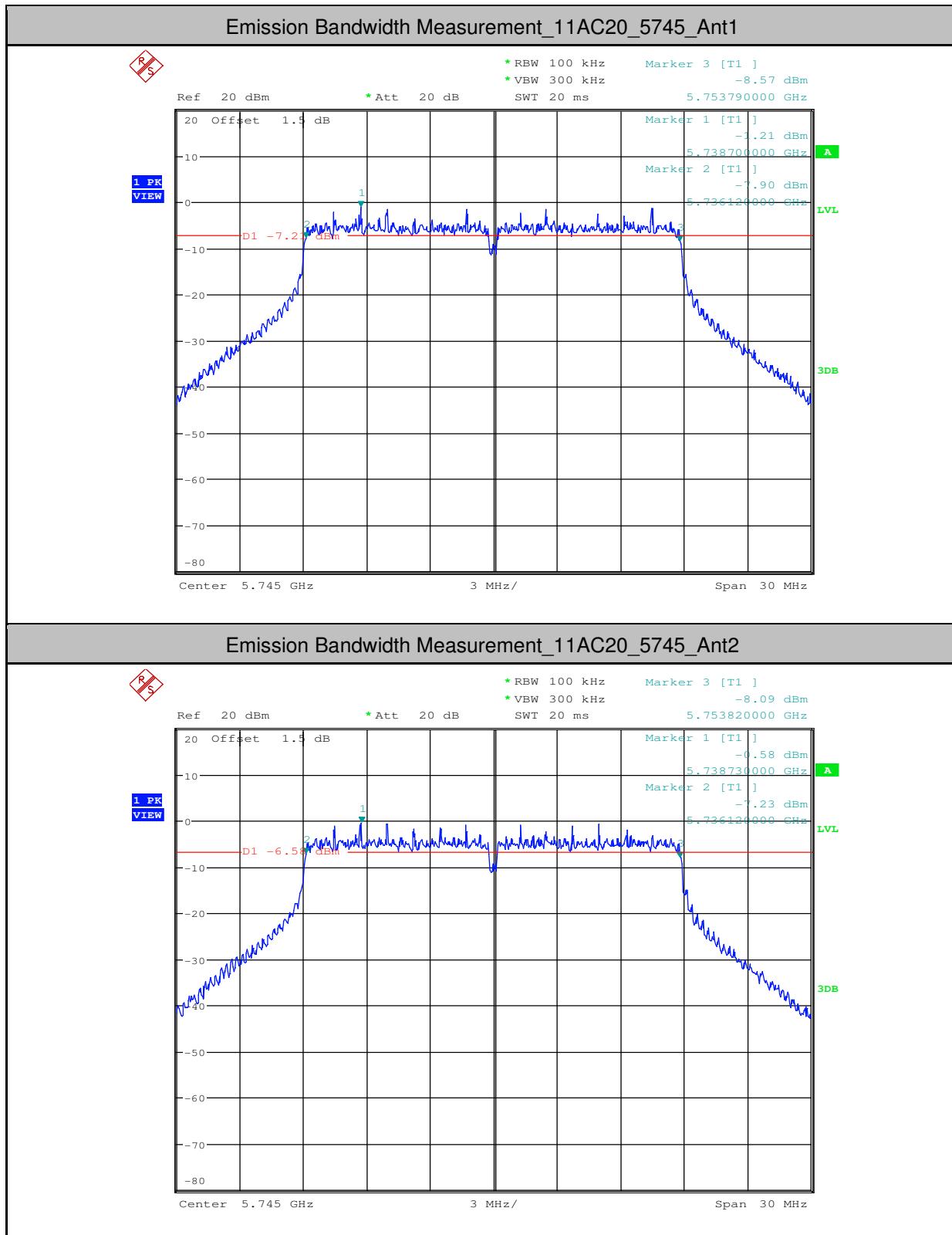


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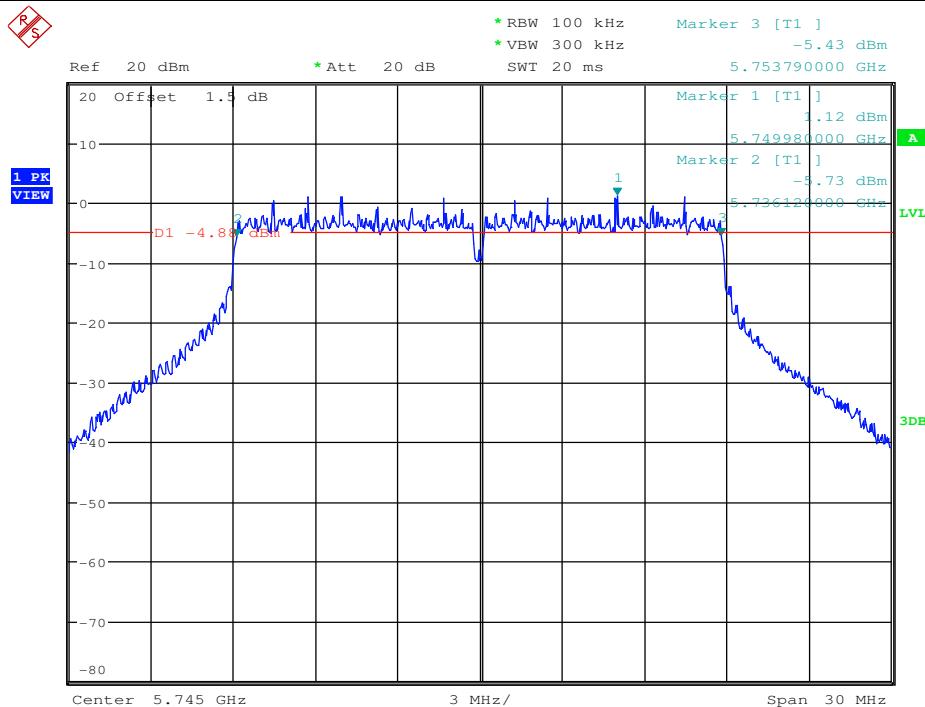
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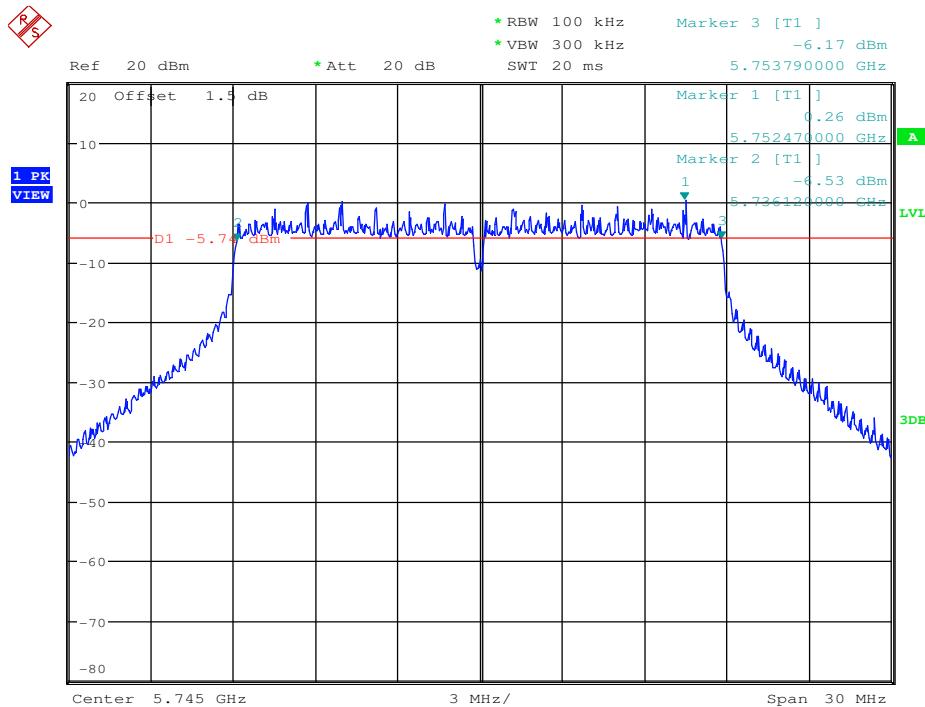
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Emission Bandwidth Measurement\_11AC20\_5745\_Ant3

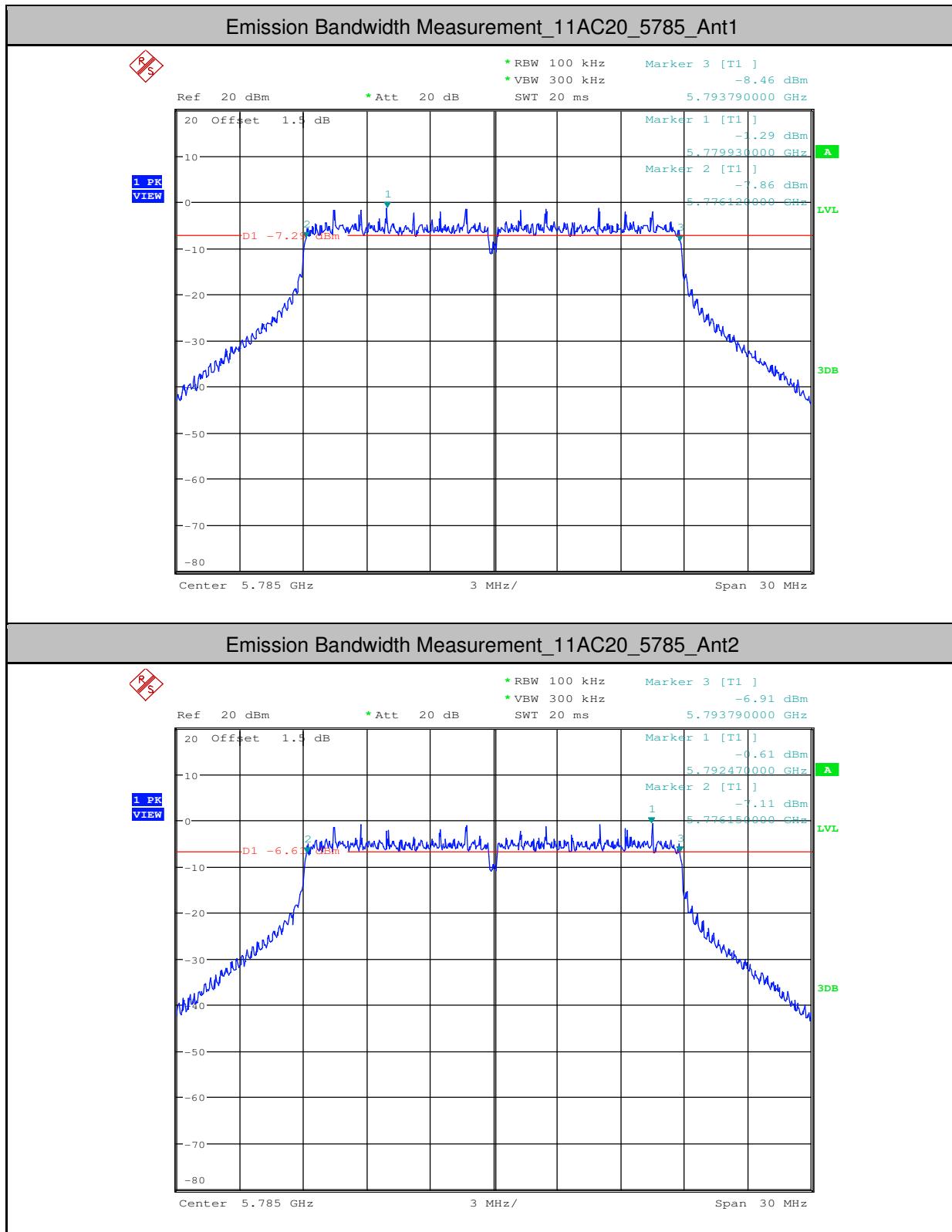


Emission Bandwidth Measurement\_11AC20\_5745\_Ant4



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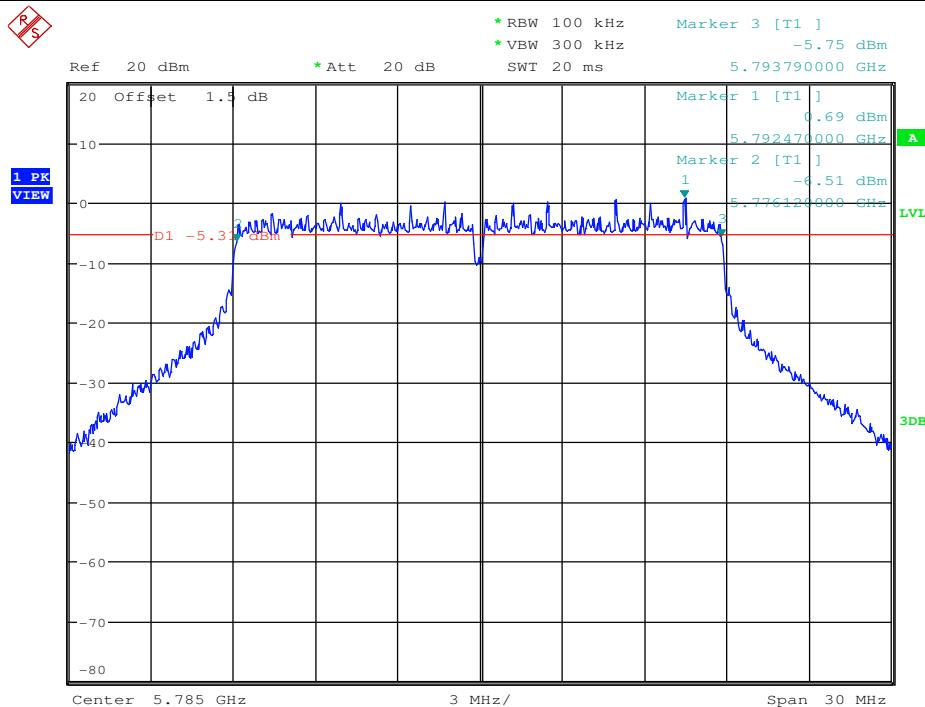
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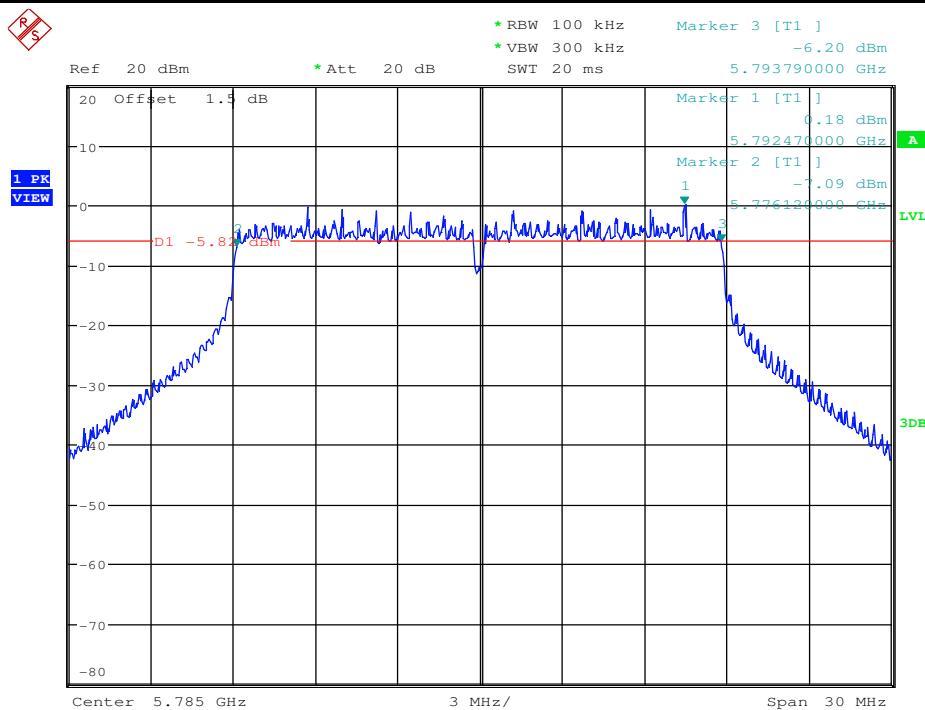
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Emission Bandwidth Measurement\_11AC20\_5785\_Ant3



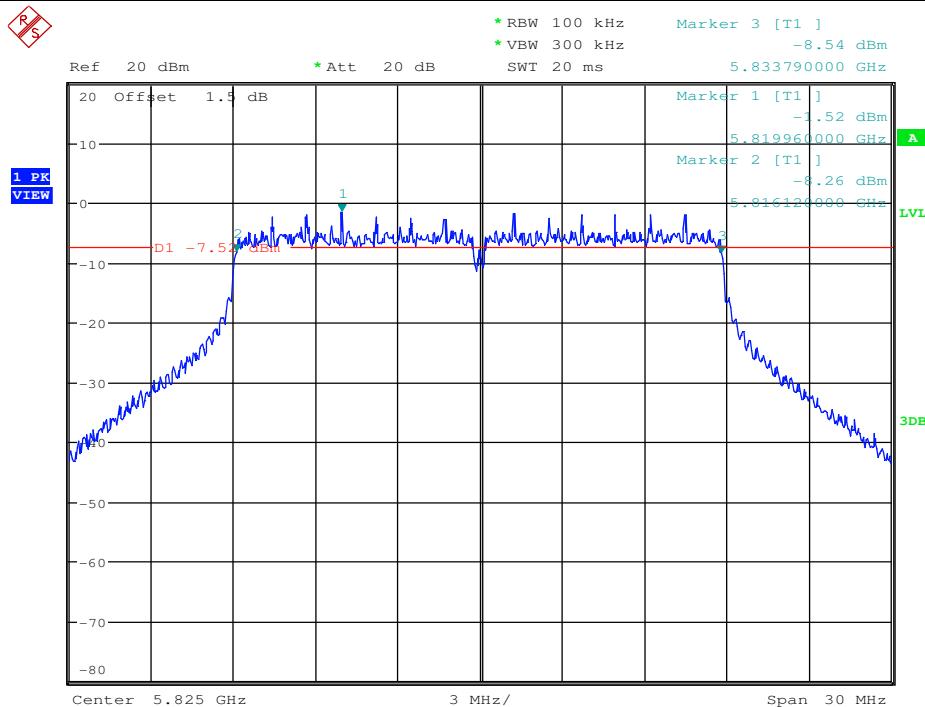
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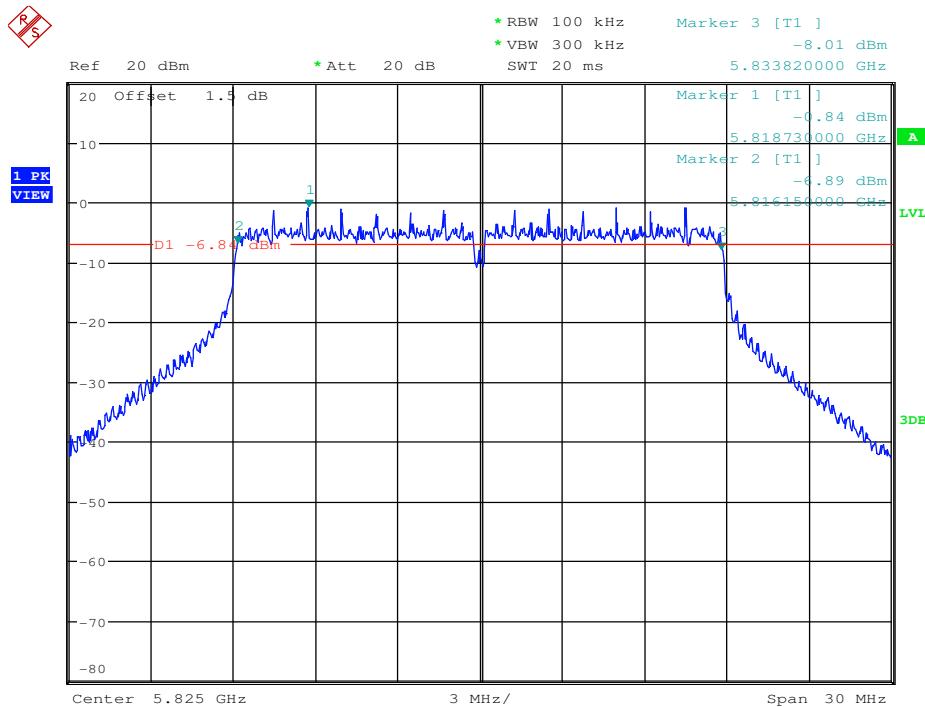
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Emission Bandwidth Measurement\_11AC20\_5825\_Ant1



Emission Bandwidth Measurement\_11AC20\_5825\_Ant2

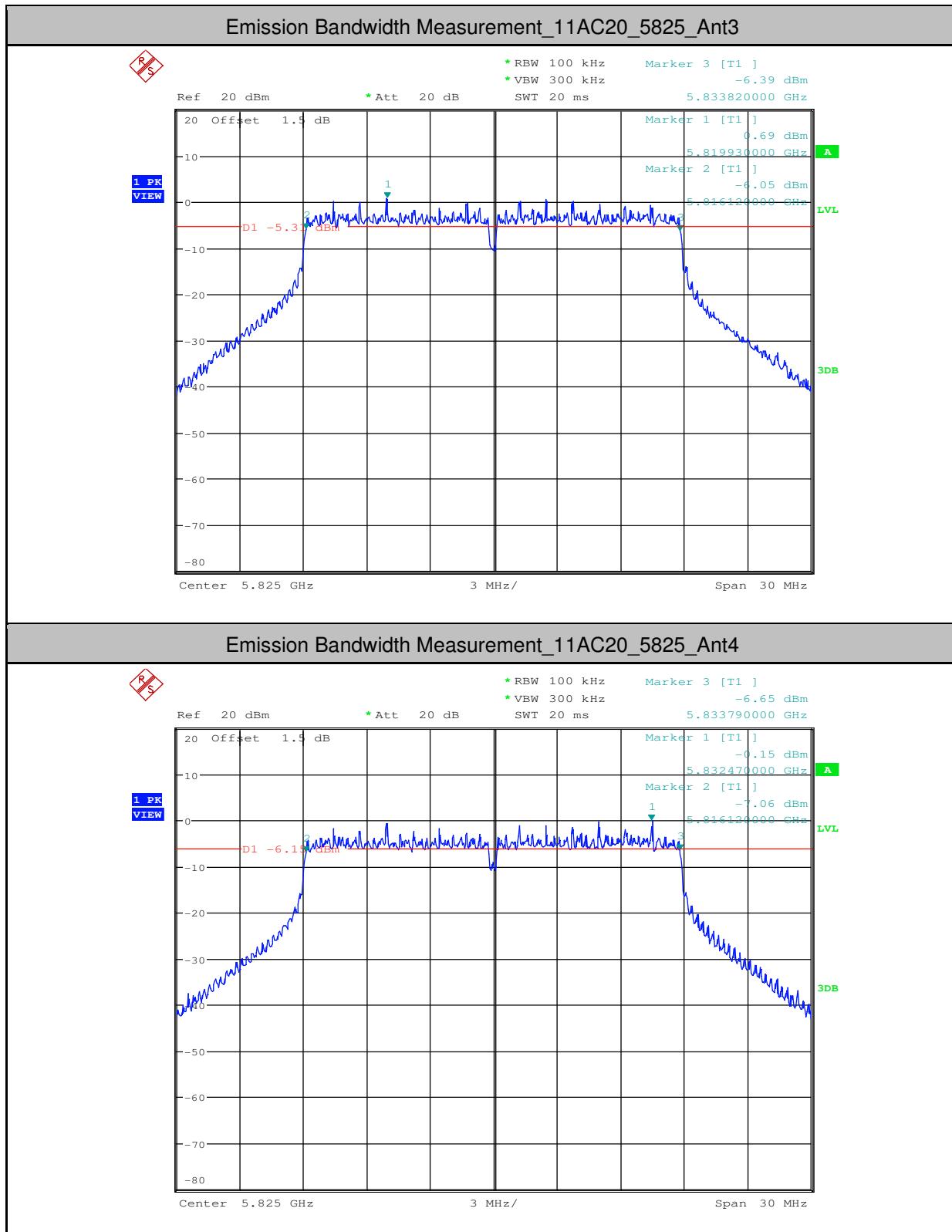


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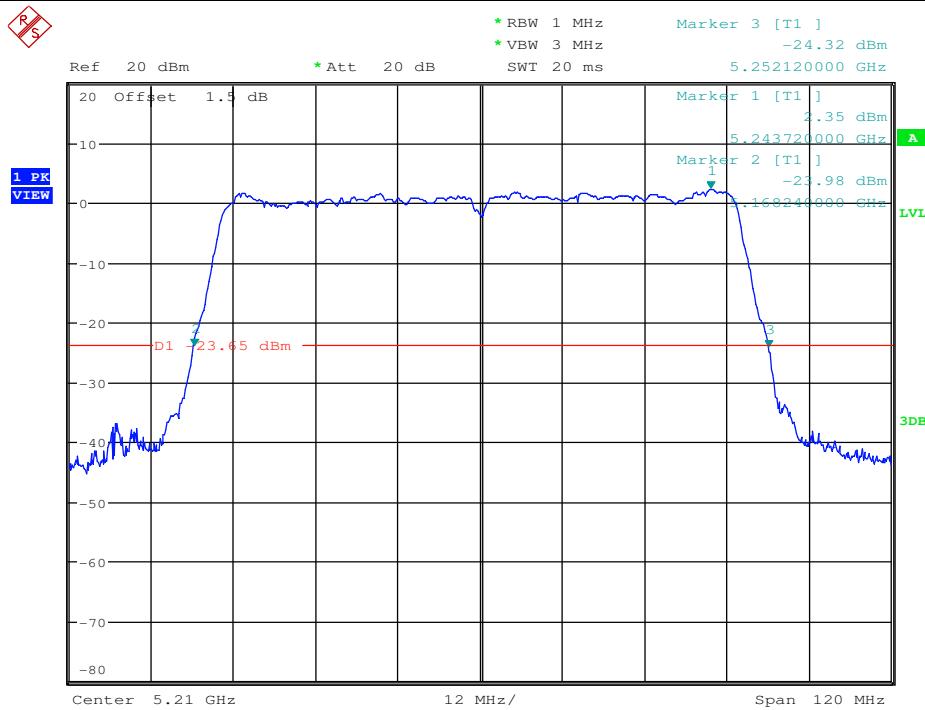
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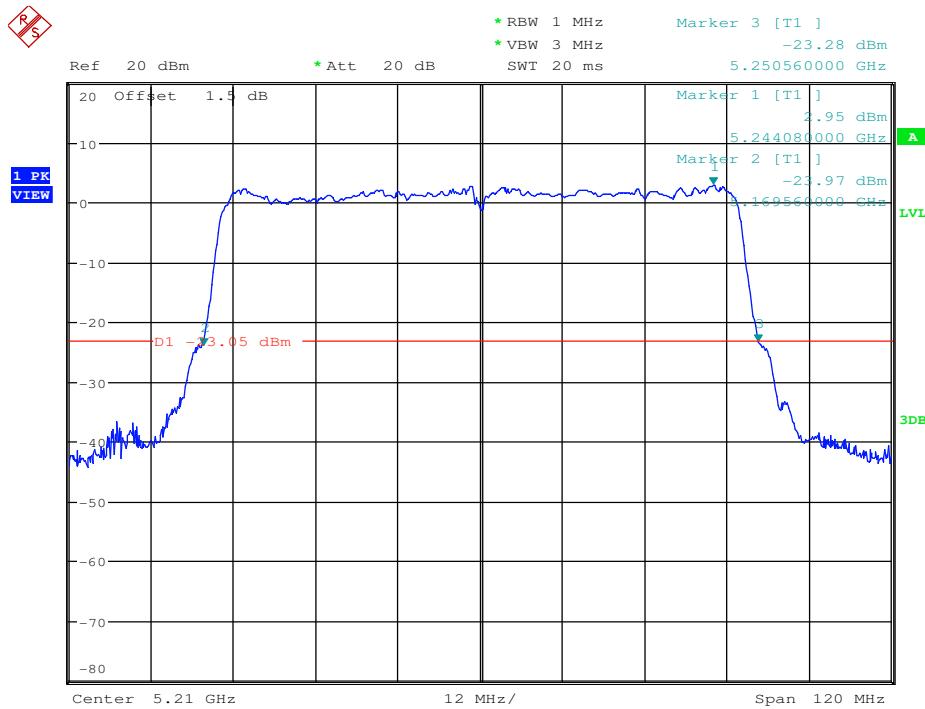
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Emission Bandwidth Measurement\_11AC80\_5210\_Ant1

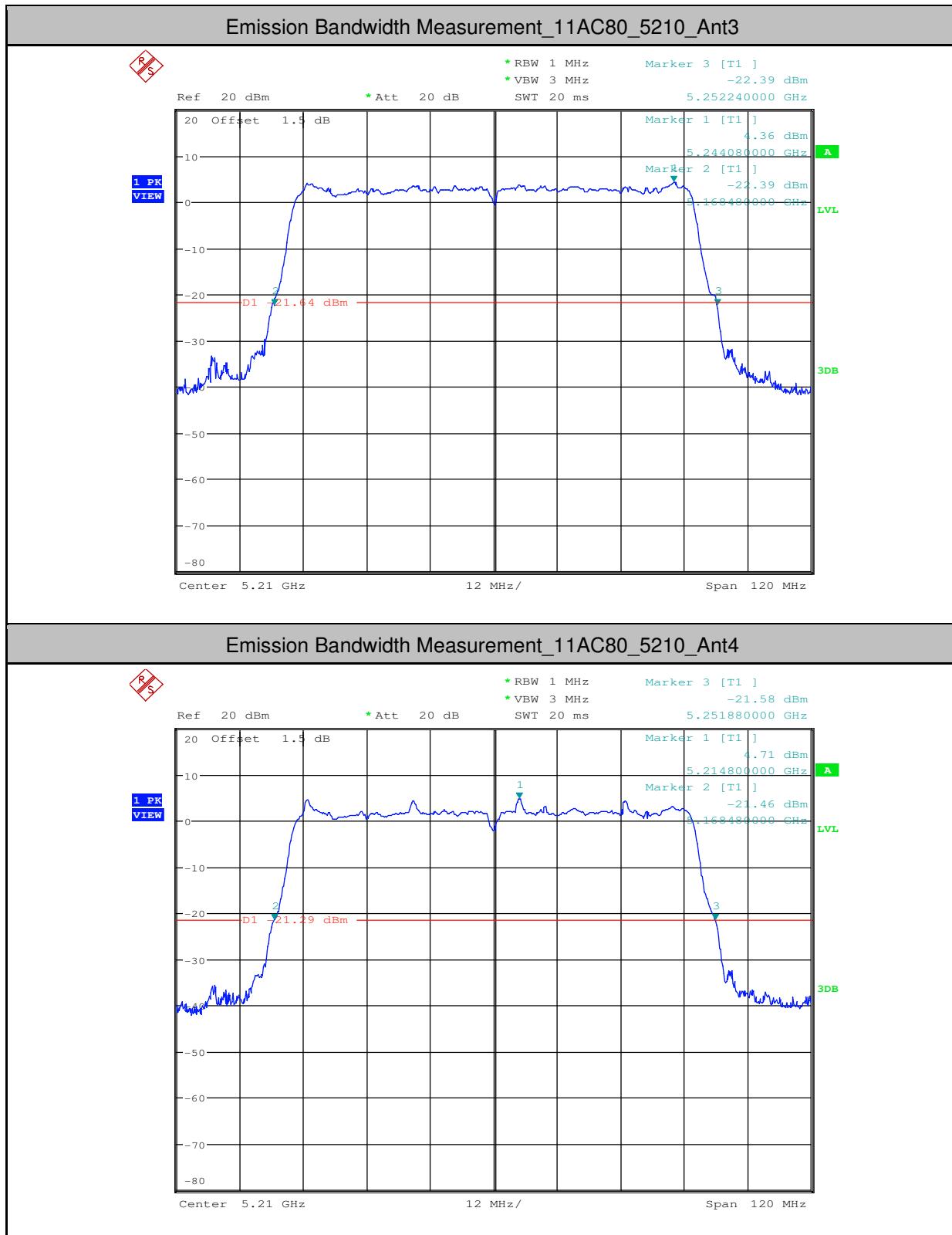


Emission Bandwidth Measurement\_11AC80\_5210\_Ant2



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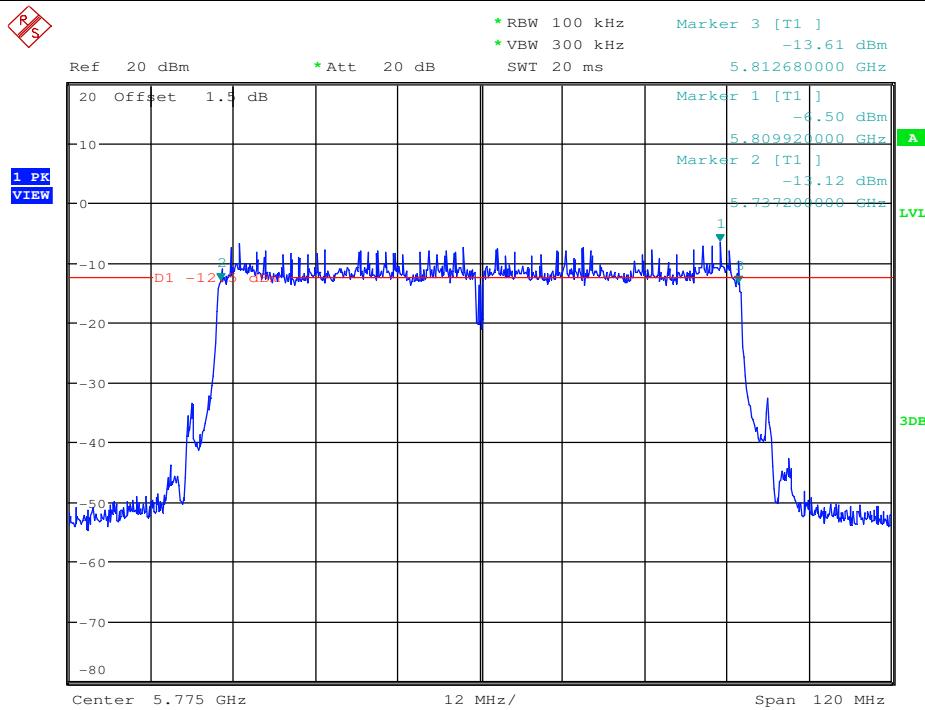
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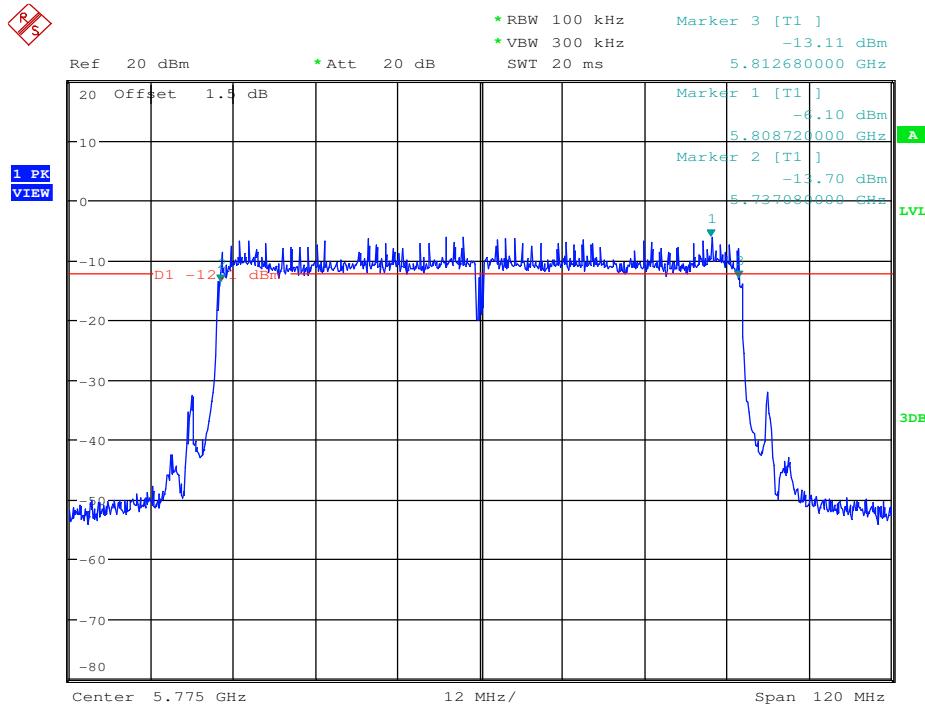
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Emission Bandwidth Measurement\_11AC80\_5775\_Ant1



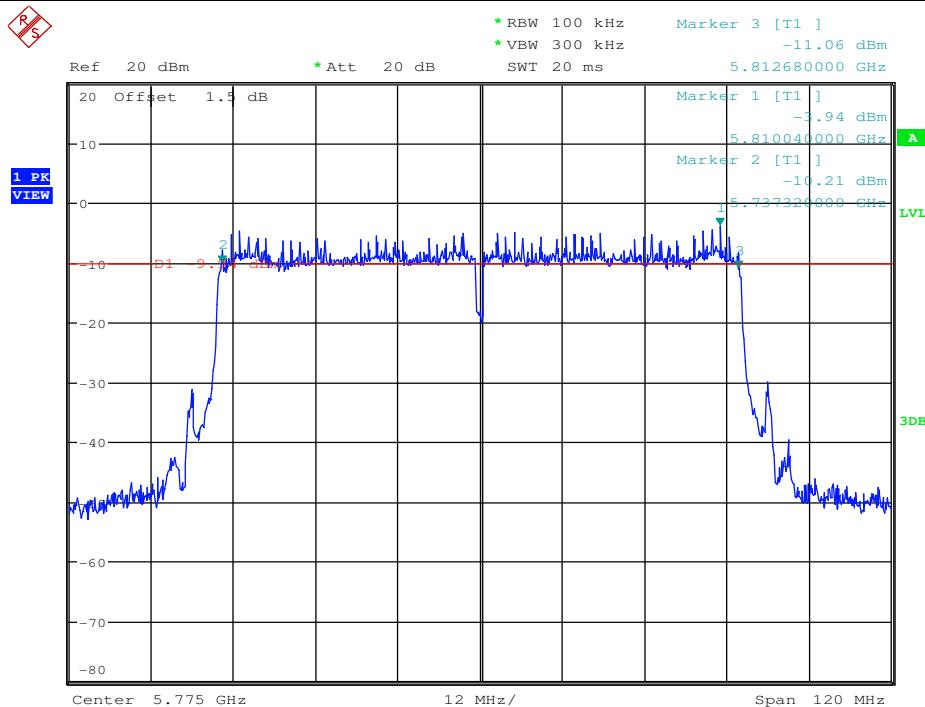
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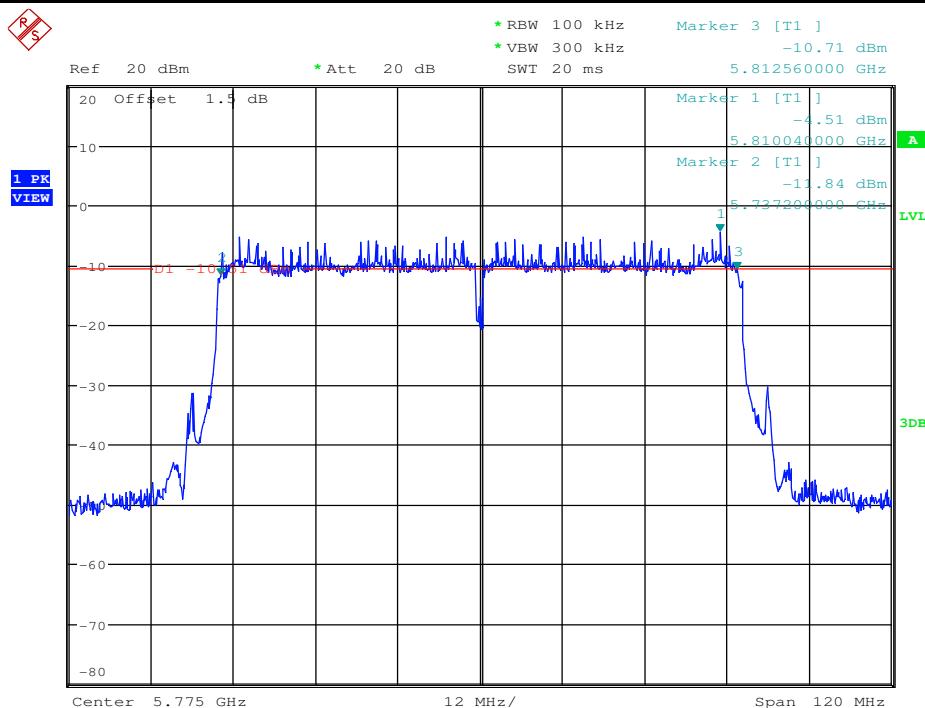
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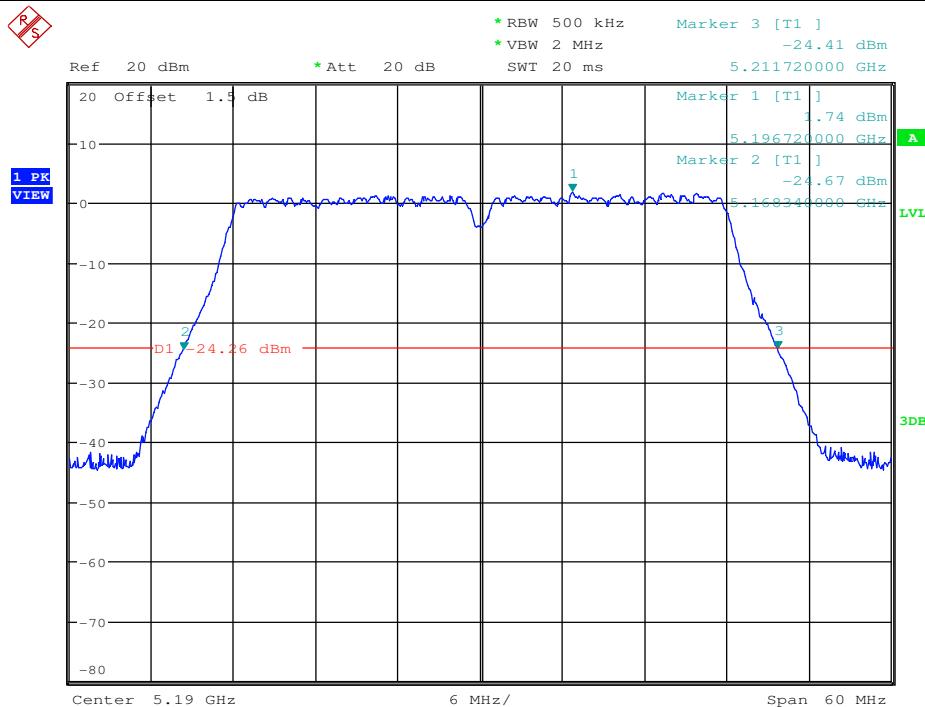
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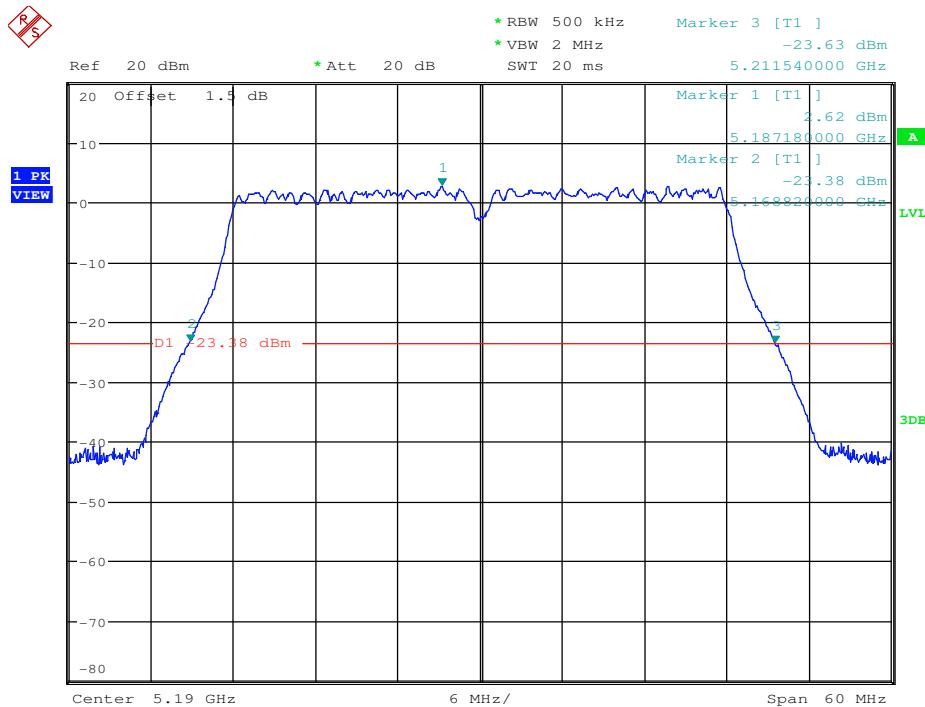
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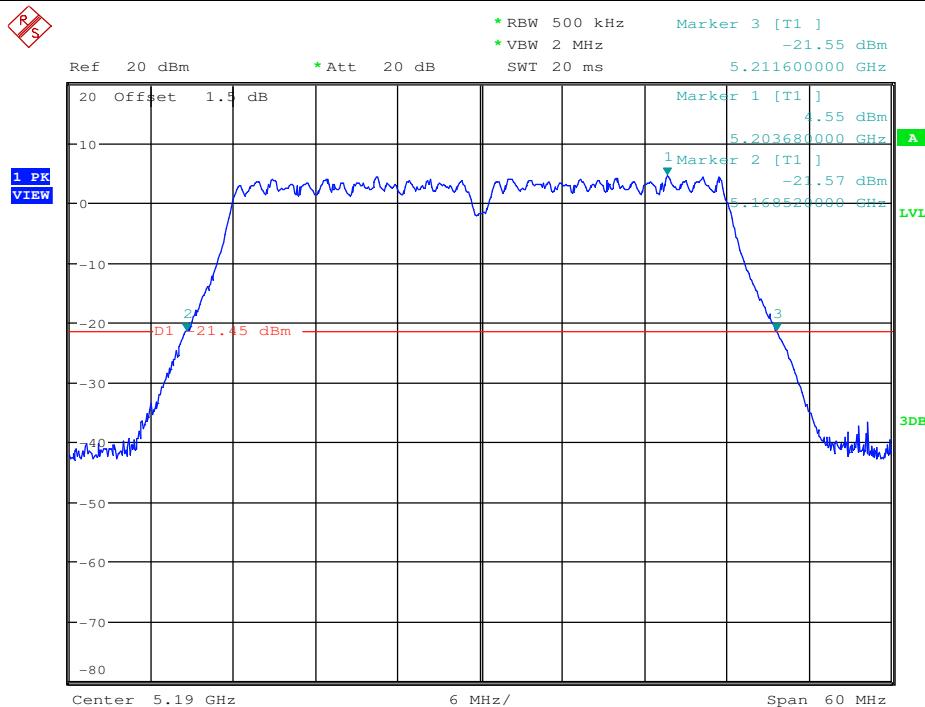
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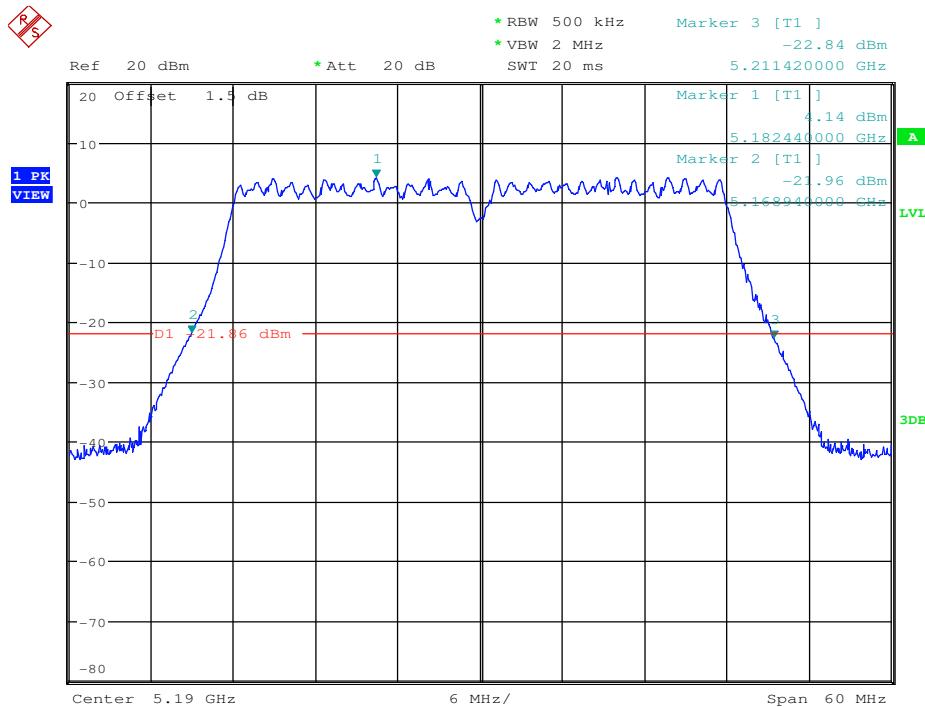
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Emission Bandwidth Measurement\_11AC40\_5190\_Ant3



Emission Bandwidth Measurement\_11AC40\_5190\_Ant4



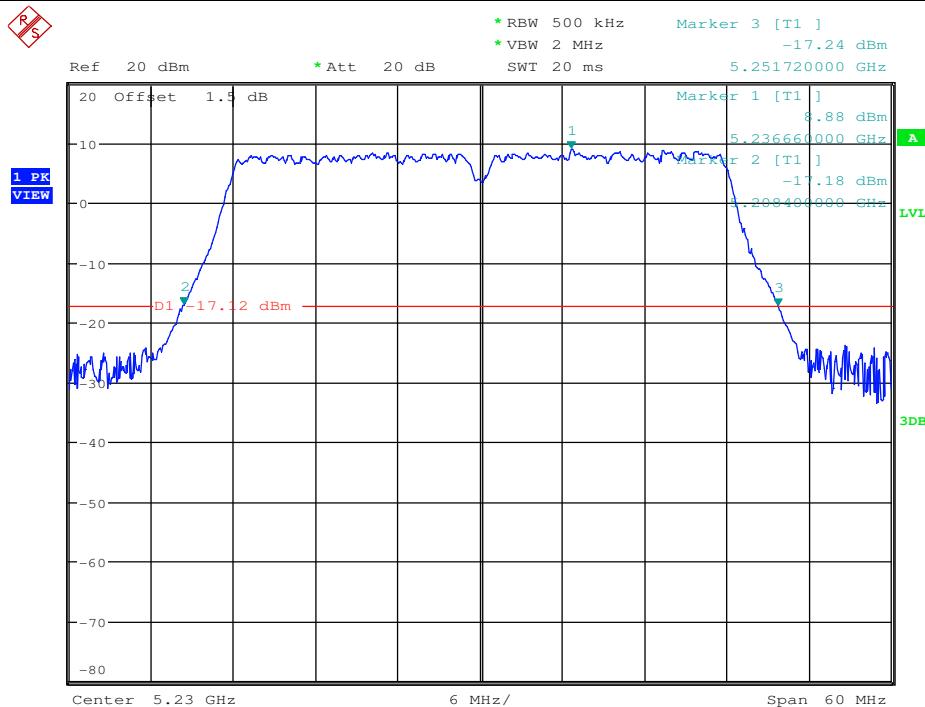
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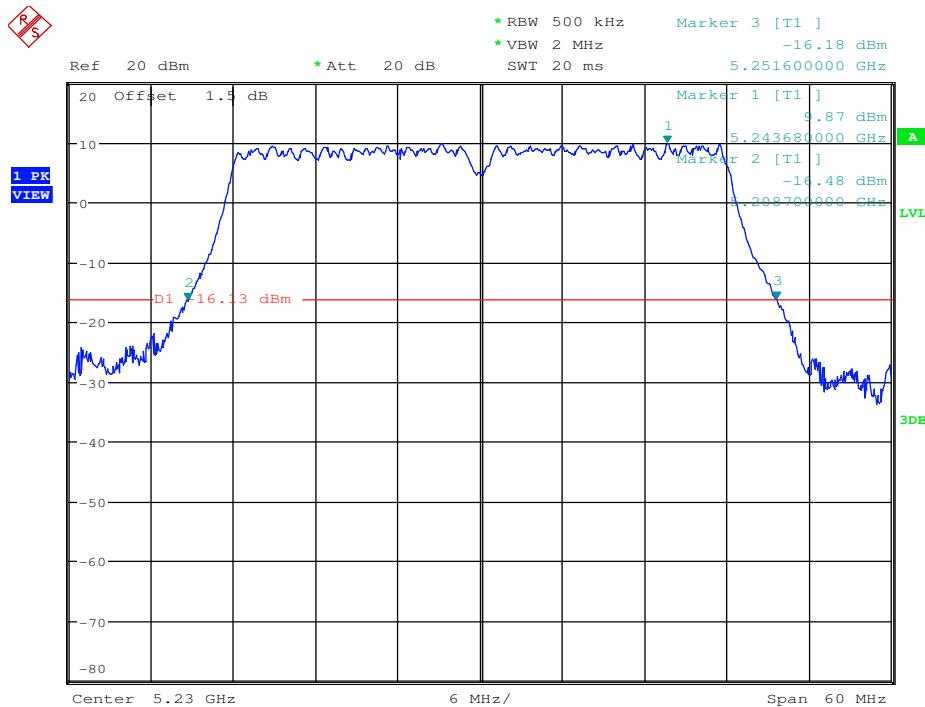
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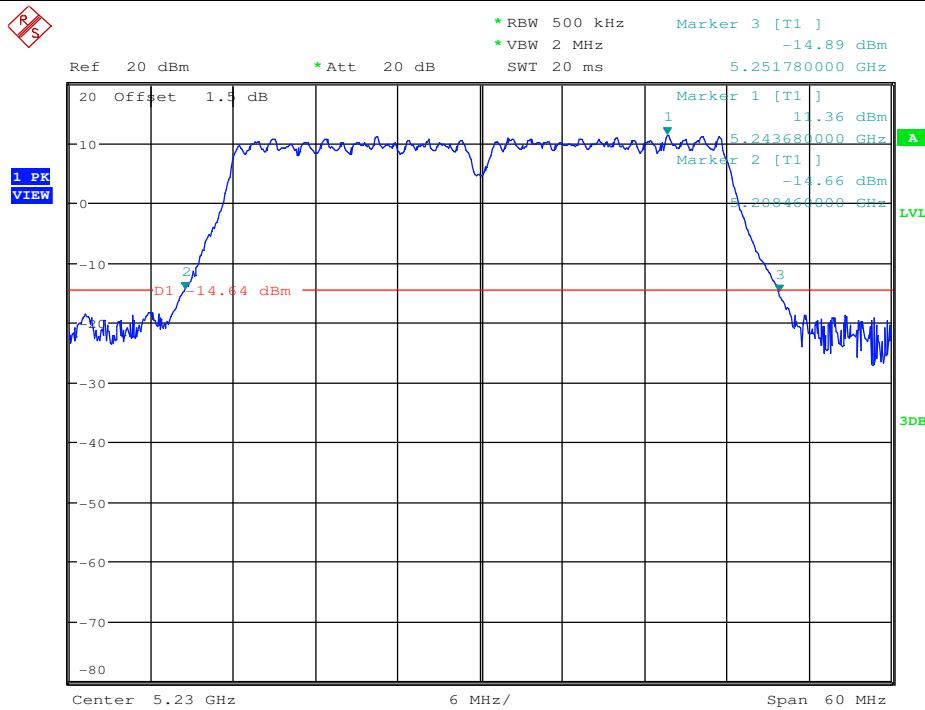
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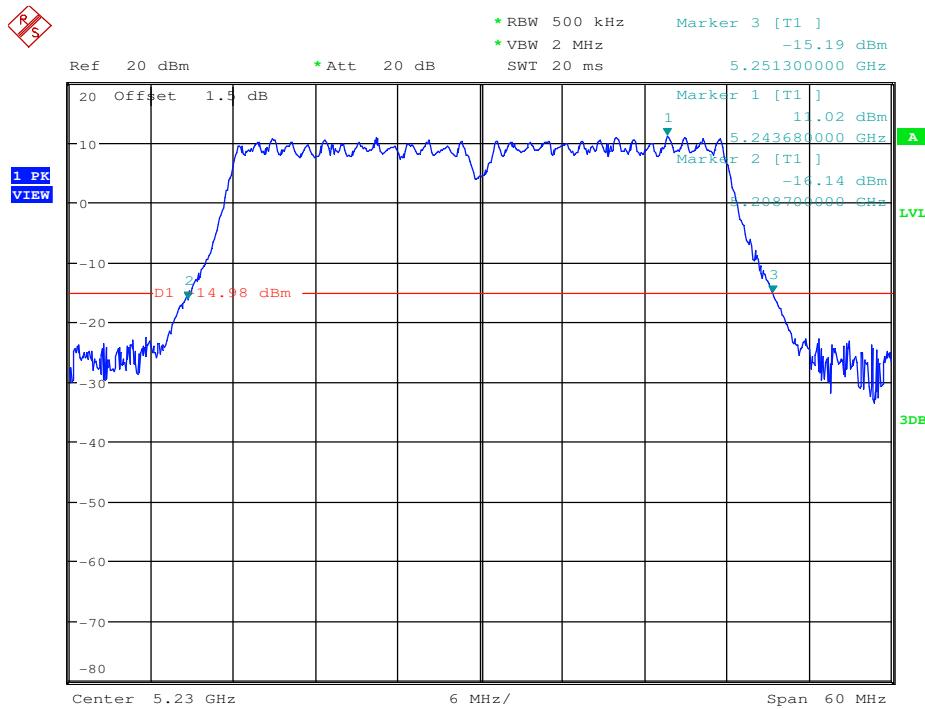
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Emission Bandwidth Measurement\_11AC40\_5230\_Ant3



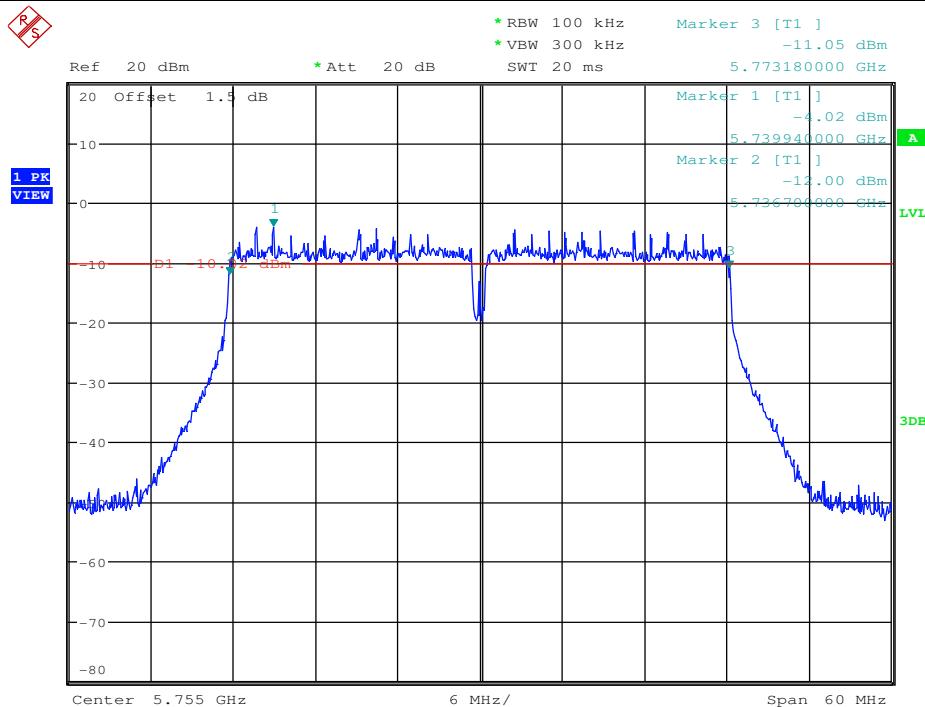
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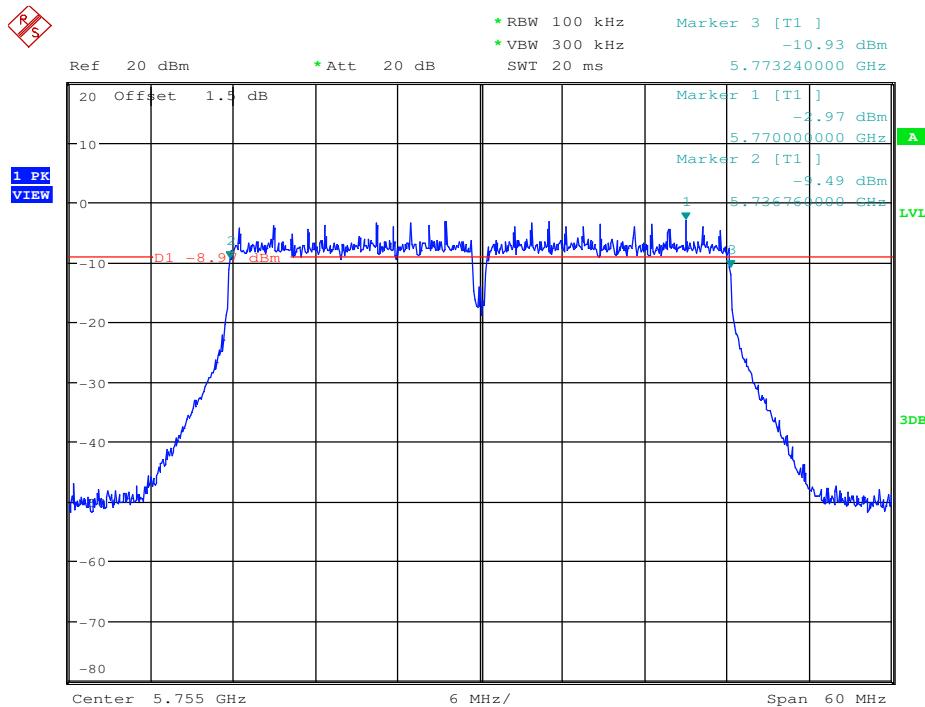
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Emission Bandwidth Measurement\_11AC40\_5755\_Ant1



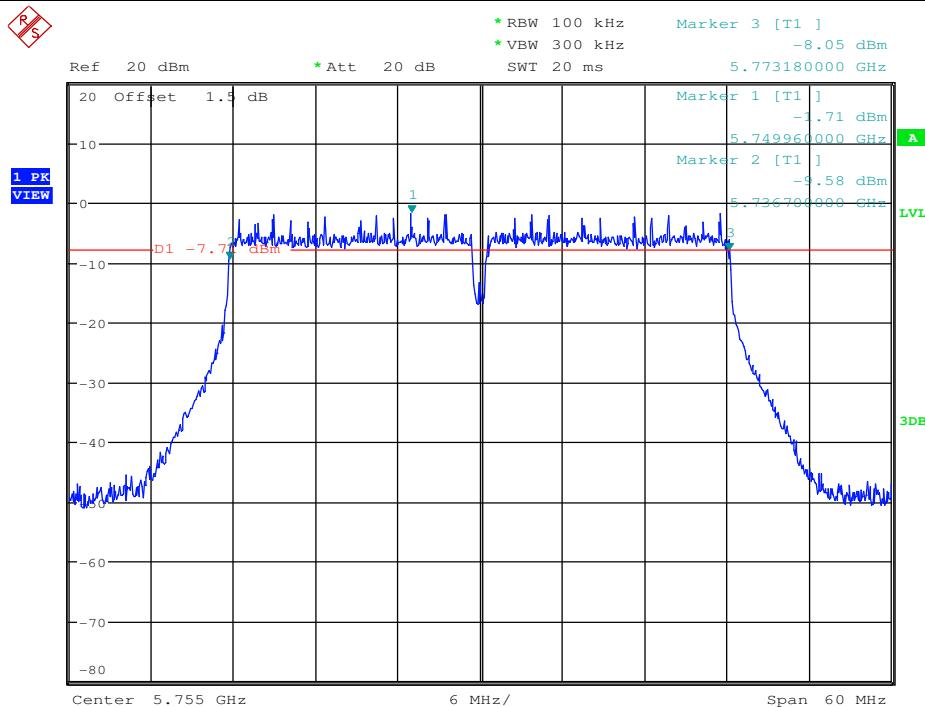
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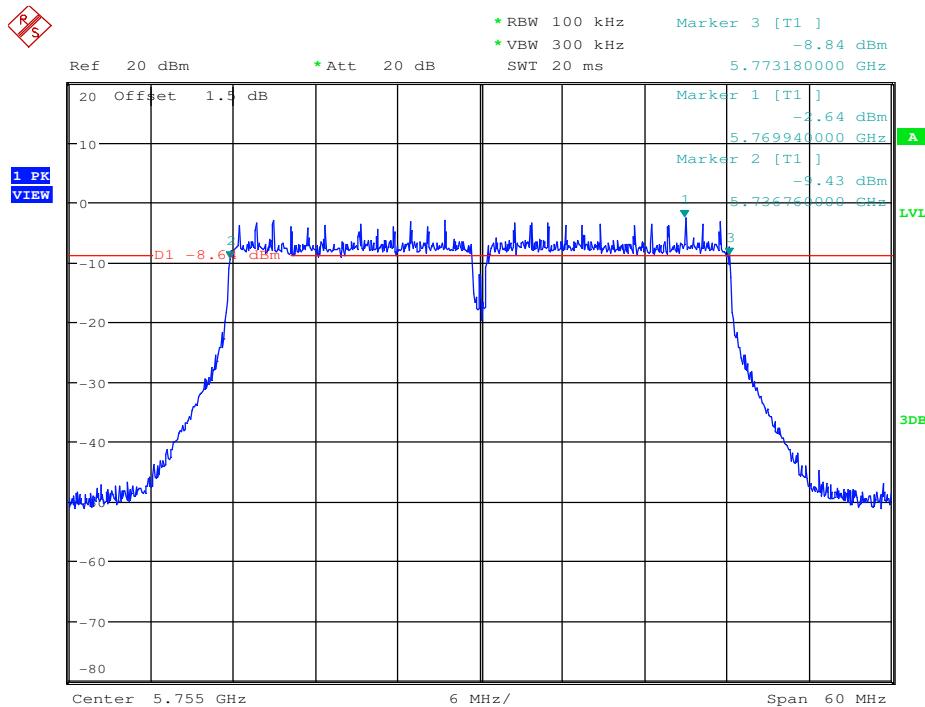
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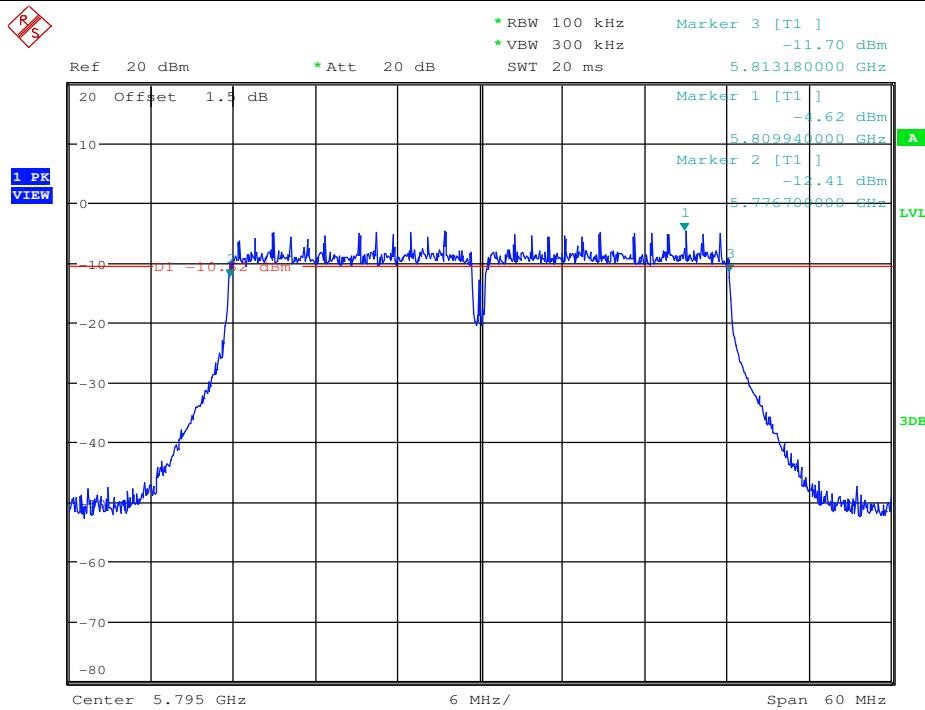
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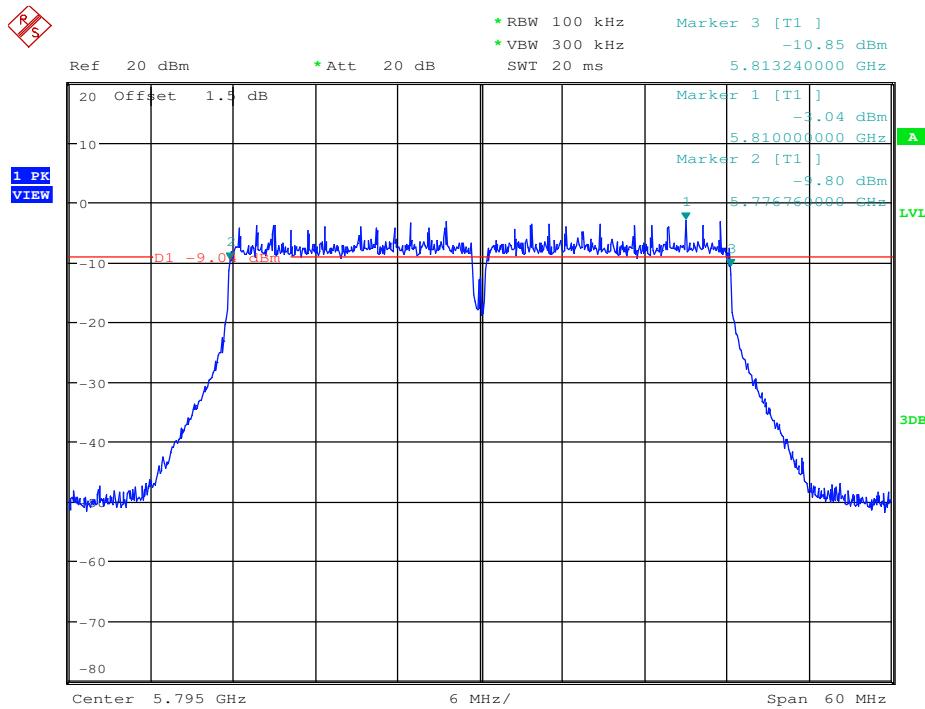
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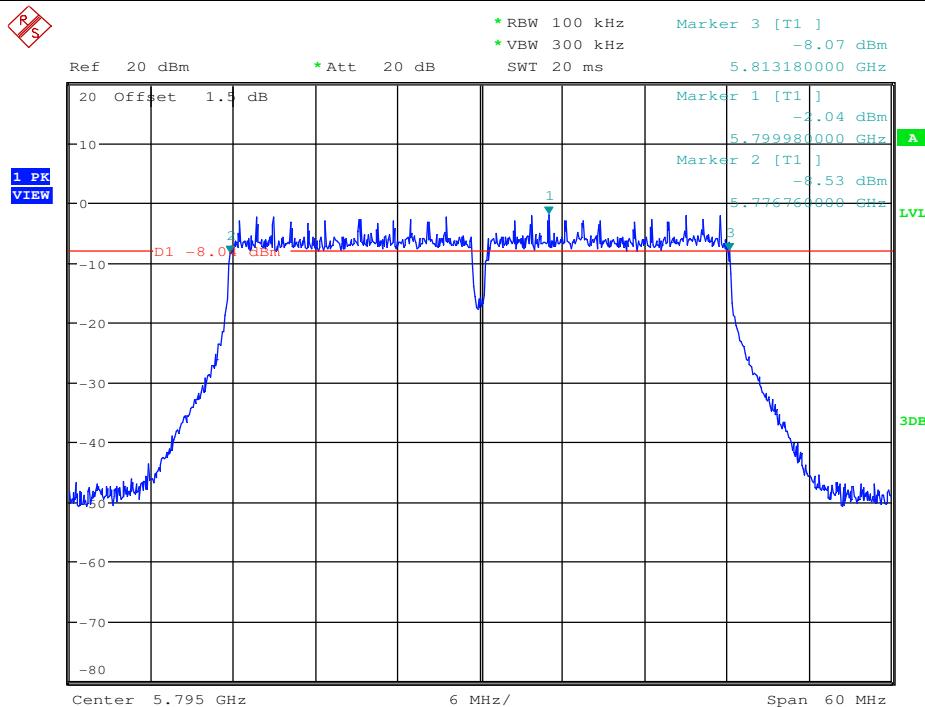
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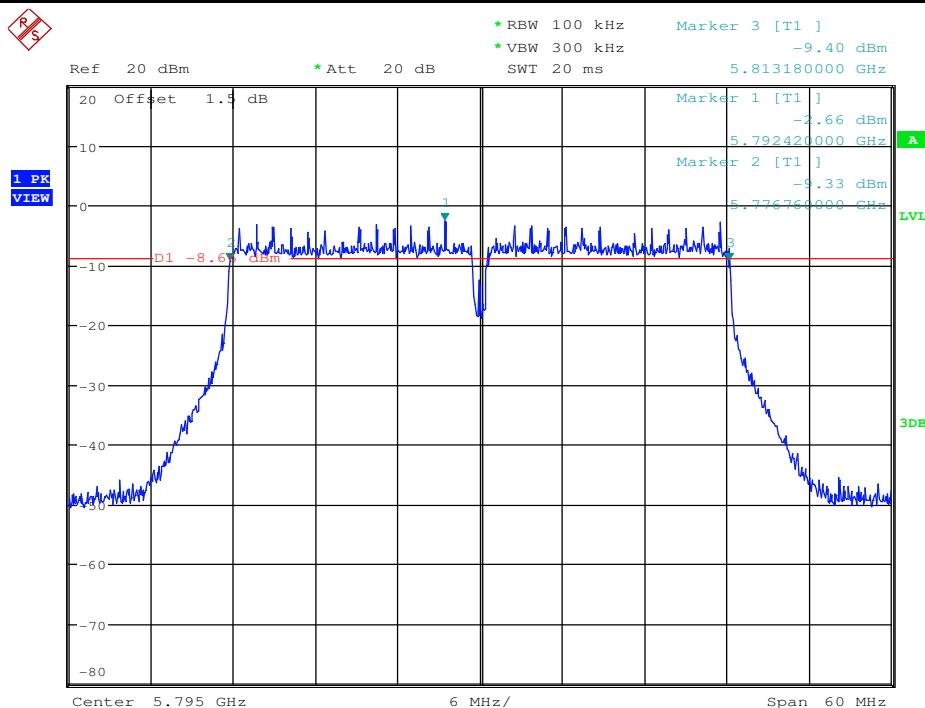
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