

TEST REPORT

Application No.: SZEM1909018098CR
Applicant: Furrion Ltd.
Address of Applicant: Unit 503c & 505-508, Level 5, Core D, Cyberport 3, 100 Cyberport Road, Hong Kong.
Manufacturer: Furrion Ltd.
Address of Manufacturer: Unit 503c & 505-508, Level 5, Core D, Cyberport 3, 100 Cyberport Road, Hong Kong.
Equipment Under Test (EUT):
EUT Name: LTE WiFi Router-Unlocked
Model No.: FAN17B8F, FAN17B87 ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade mark: FURRIION
FCC ID: 2ABH3-FAN17B
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2019-09-02
Date of Test: 2019-09-05 to 2019-09-28
Date of Issue: 2019-10-09

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

Keny Xu

Keny Xu
EMC Laboratory Manager



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

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-10-09		Original

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

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
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

Declaration of EUT Family Grouping:

Model No.: FAN17B8F, FAN17B87

Only the model FAN17B8F was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, only the difference as below:

Model	Description
FAN17B8F	Internet Access Point, LTE and Wi-Fi Router SIM Swappable with ceiling mount bracket
FAN17B87	Internet Access Point, LTE and Wi-Fi Router SIM Swappable without ceiling mount bracket

Internet Access Point, LTE Wi-Fi Router-Unlocked (FAN17B87)	Ceiling mount bracket
	

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 12V			
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:	Integral			
Antenna Gain:	Antenna5/Antenna6:2dBi Note: two antennas can simultaneous transmission.			

Selected Test Channel for 802.11a/n(HT20)/ac(HT20)		
Band	Channel	Frequency
U-NII Band I	The lowest channel (CH36)	5180MHz
	The middle channel (CH40)	5200MHz
	The highest channel (CH48)	5240MHz
U-NII Band III	The lowest channel (CH149)	5745MHz
	The middle channel (CH157)	5785MHz
	The highest channel (CH165)	5825MHz

Selected Test Channel for 802.11n(HT40)/ac(HT40)		
Band	Channel	Frequency
U-NII Band I	The lowest channel (CH38)	5190MHz
	The highest channel (CH46)	5230MHz
U-NII Band III	The lowest channel (CH151)	5755MHz
	The highest channel (CH159)	5795MHz

Selected Test Channel for 802.11ac(HT80)		
Band	Channel	Frequency
U-NII Band I	One channel (CH42)	5210MHz
U-NII Band III	One channel (CH155)	5775MHz



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4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
DC Power	ZHAOXIN	RXN-305D	REF. No.SEA2700

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:

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **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

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	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Sensor	KEYSIGHT	U2021XA	SEM009-13	2019-04-12	2020-04-11
Electric and Magnetic Field Analyzer	Narda	NBM-550/EHP-50F	EMC2143	2018-02-07	2020-02-06
Electric Field Probe (100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

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 (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2019-09-24	2020-09-23
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2019-04-01	2020-03-31
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 Emissions which fall in the restricted bands/ 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	2019-04-12	2020-04-11
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019-04-01	2020-03-31
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019-04-01	2020-03-31
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

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	2019-04-04	2020-04-03





6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2dBi.

Antenna location: Refer to Internal photos and external 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 (MT7612E) 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.



7 Radio Spectrum Matter Test Results

7.1 99% Bandwidth

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

7.1.1 E.U.T. Operation

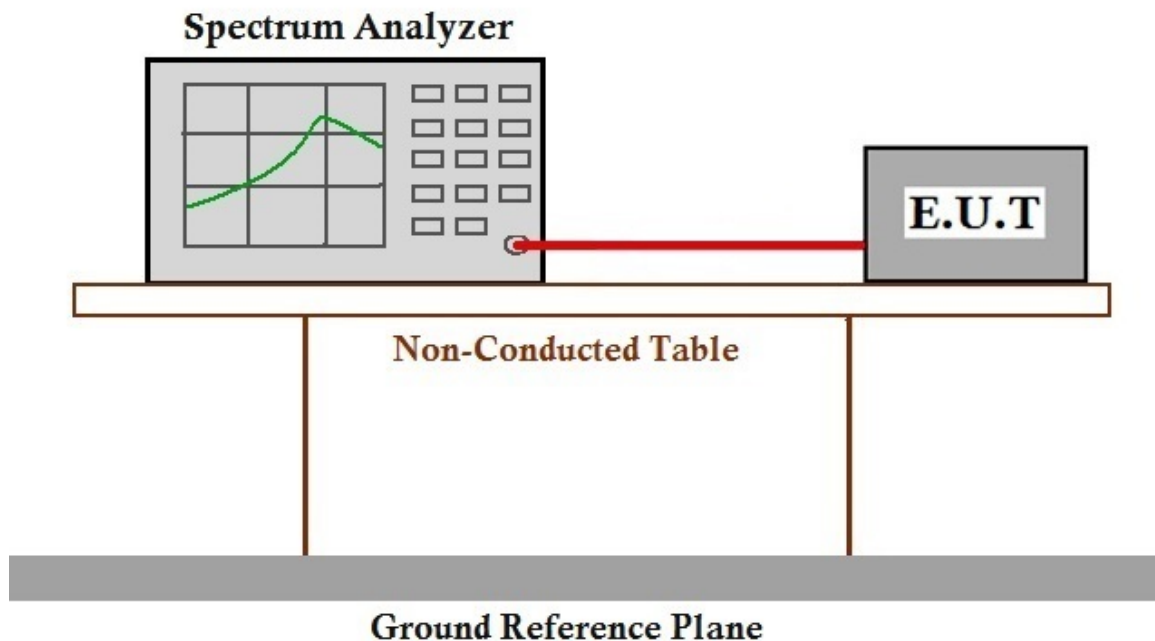
Operating Environment:

Temperature: 25.4 °C Humidity: 50 % RH Atmospheric Pressure: 1005 mbar

Test mode: o: TX mode (Band I)_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.

p: TX mode (Band III)_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.

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407

7.2 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

7.2.1 E.U.T. Operation

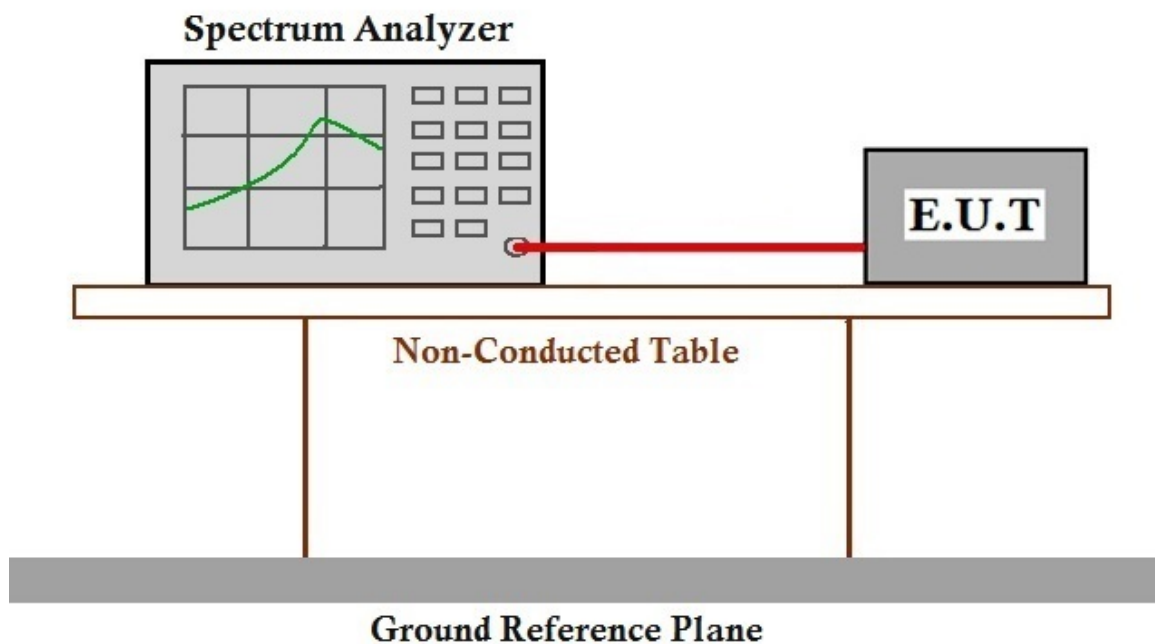
Operating Environment:

Temperature: 25.4 °C Humidity: 49.8 % RH Atmospheric Pressure: 1005 mbar

Test mode: o: TX mode (Band I)_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.

p: TX mode (Band III)_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





7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407



7.3 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: ≥ 500 kHz

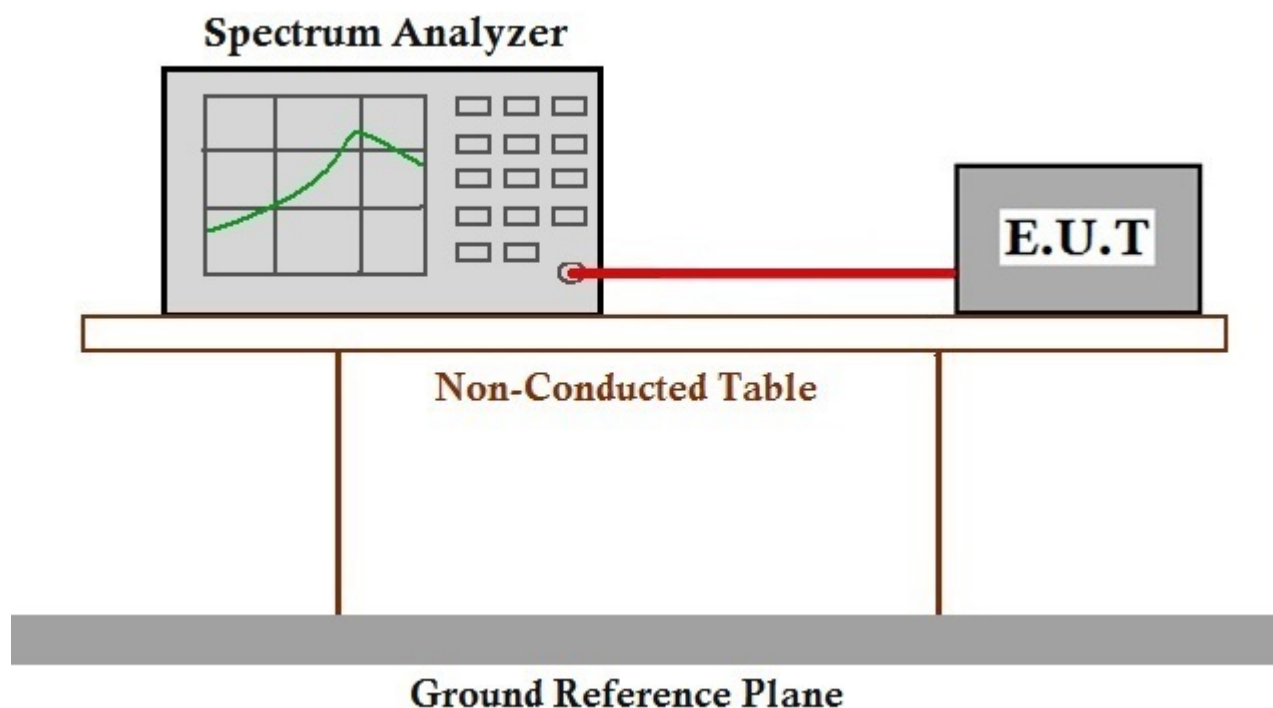
7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.4 °C Humidity: 49.8 % RH Atmospheric Pressure: 1005 mbar

Test mode: p: TX mode (Band III)_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

7.4 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	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

7.4.1 E.U.T. Operation

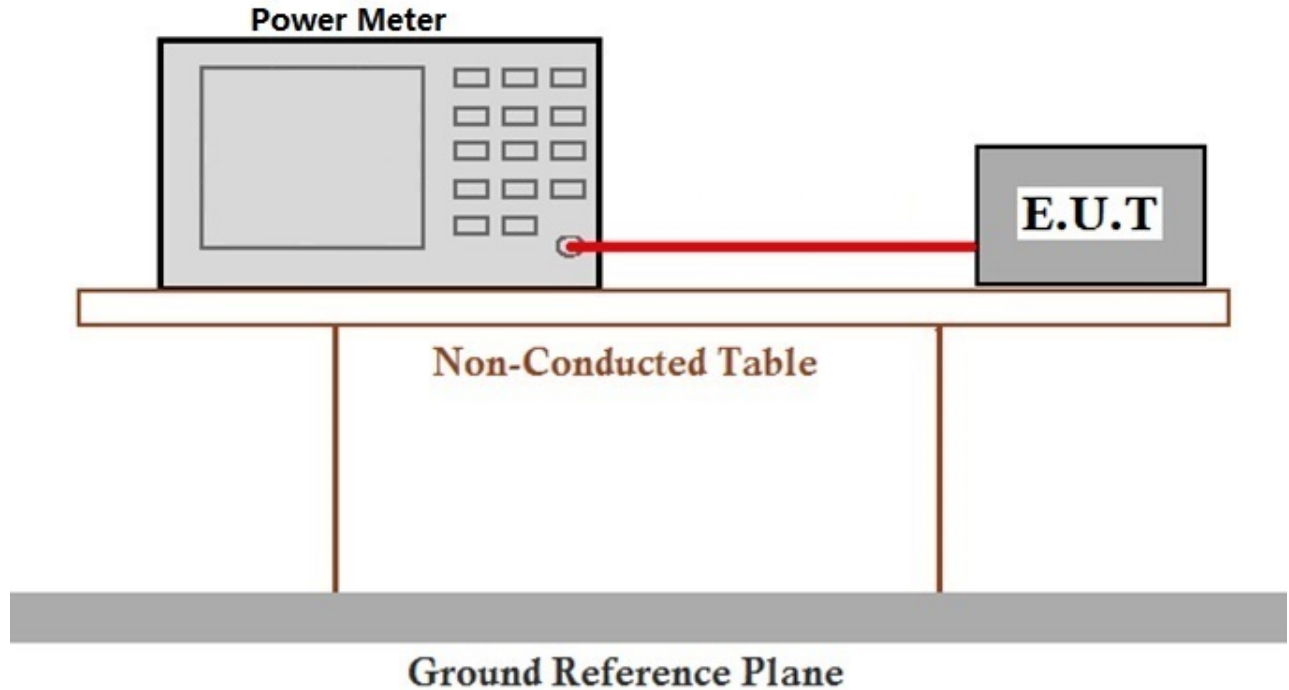
Operating Environment:

Temperature: 25.4 °C Humidity: 49.8 % RH Atmospheric Pressure: 1005 mbar

Test mode: o: TX mode (Band I)_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.

p: TX mode (Band III)_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



7.5 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.

7.5.1 E.U.T. Operation

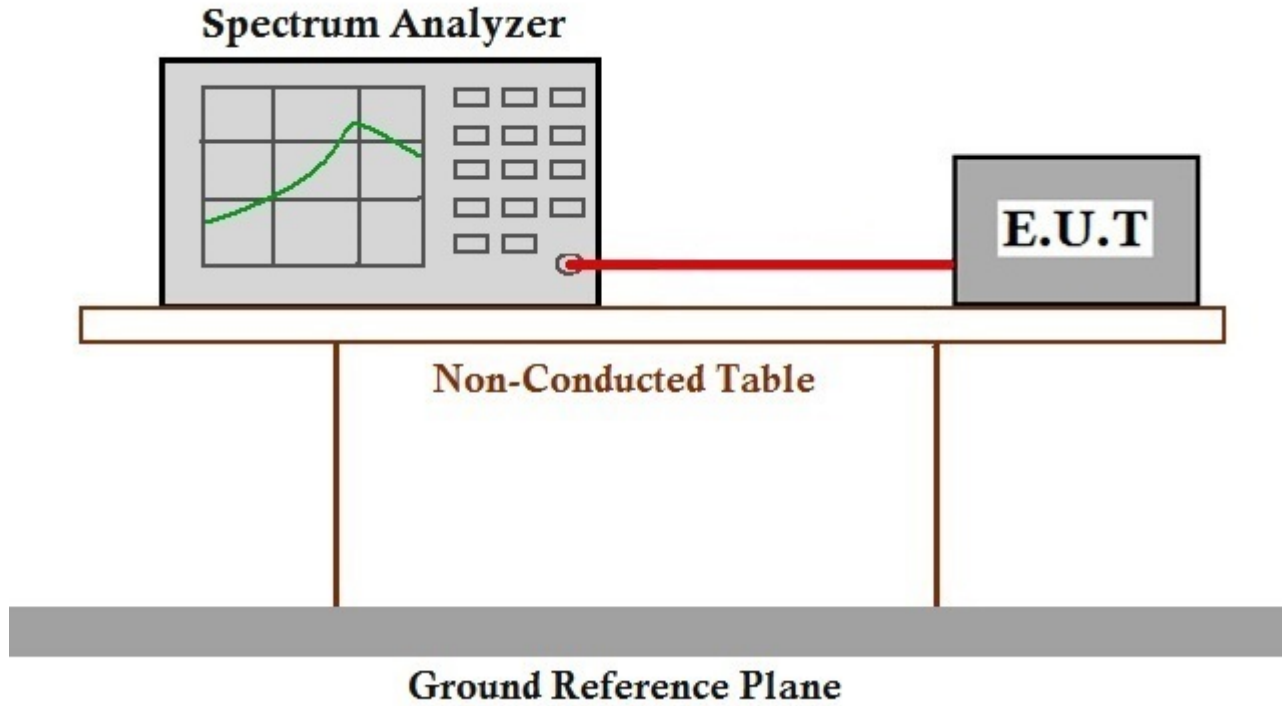
Operating Environment:

Temperature: 25.4 °C Humidity: 49.8 % RH Atmospheric Pressure: 1005 mbar

Test mode: o: TX mode (Band I)_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.

p: TX mode (Band III)_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.

7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407



7.6 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.

7.6.1 E.U.T. Operation

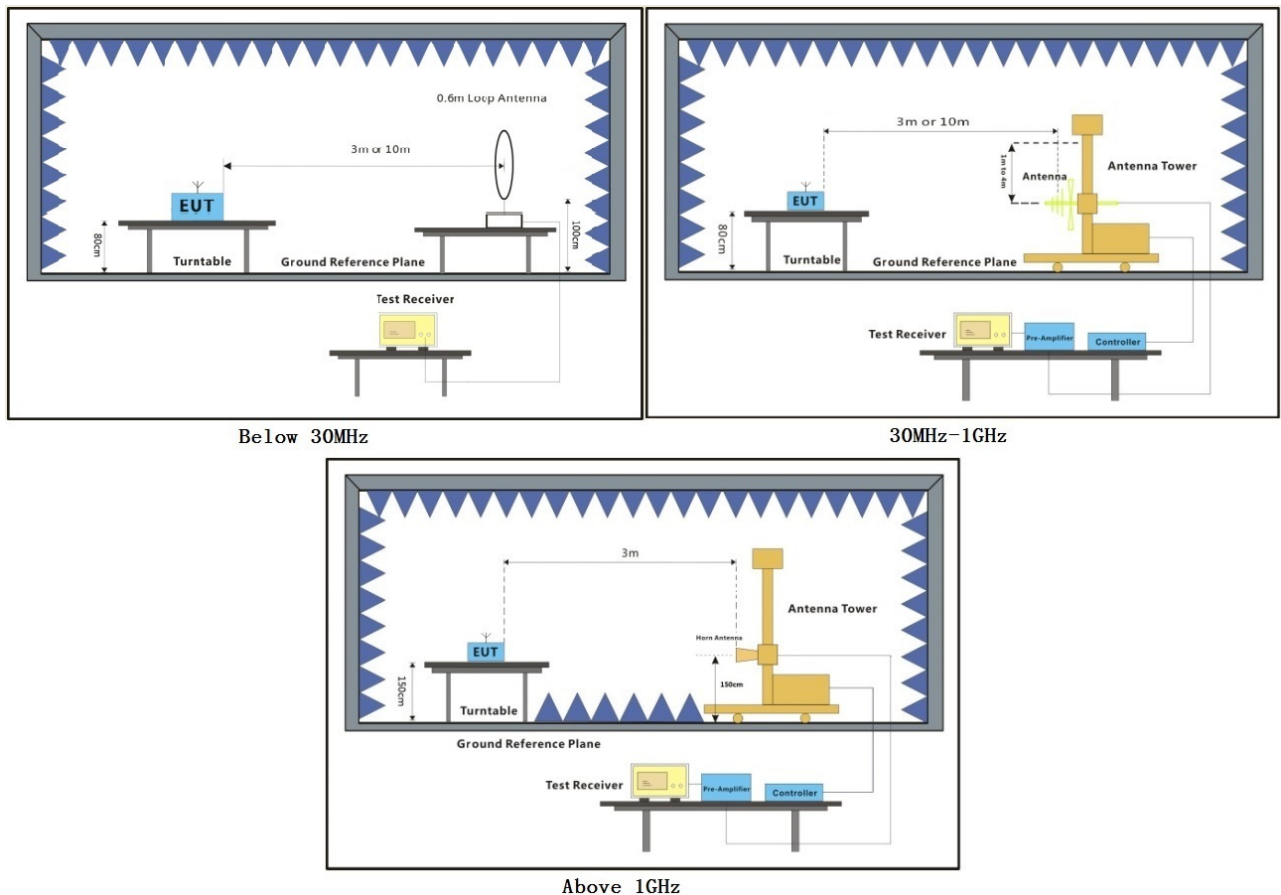
Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1005 mbar

Test mode: o: TX mode (Band I)_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.

p: TX mode (Band III)_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.

7.6.2 Test Setup Diagram





7.6.3 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.

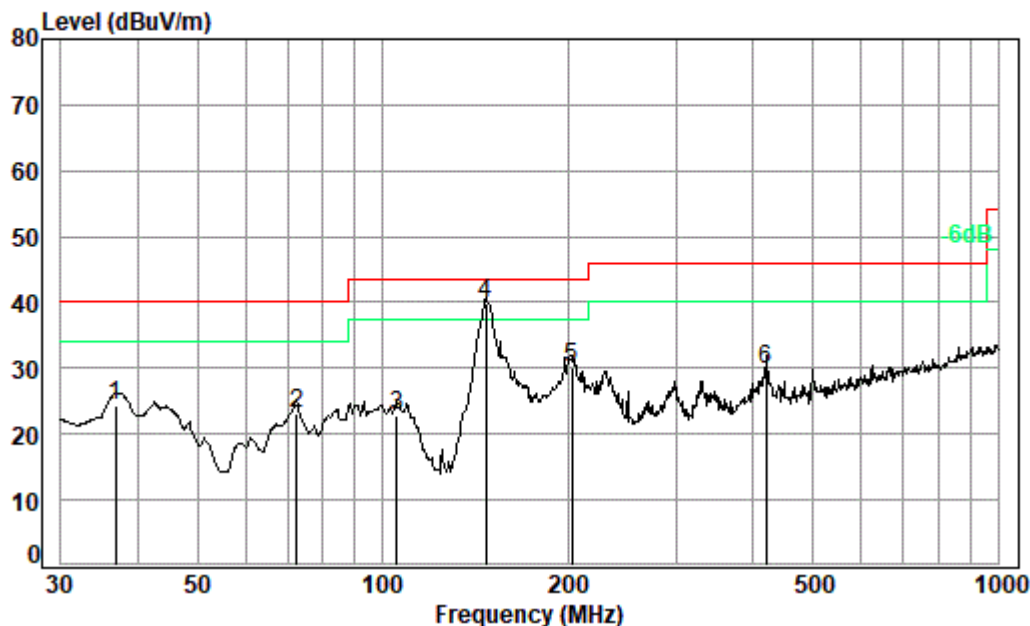
Remark: Pretest the EUT at antenna 1 and antenna 2, found the antenna 1 which is worst case for 802.11a mode, Pretest the EUT at antenna 1, antenna 2 and MIMO mode, found the MIMO mode which is worst case for 802.11n/ac mode; So, Only the worst test data is recorded in the report.



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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doecheck@sgs.com

Radiated emission below 1GHz

Mode:o; Polarization:Horizontal



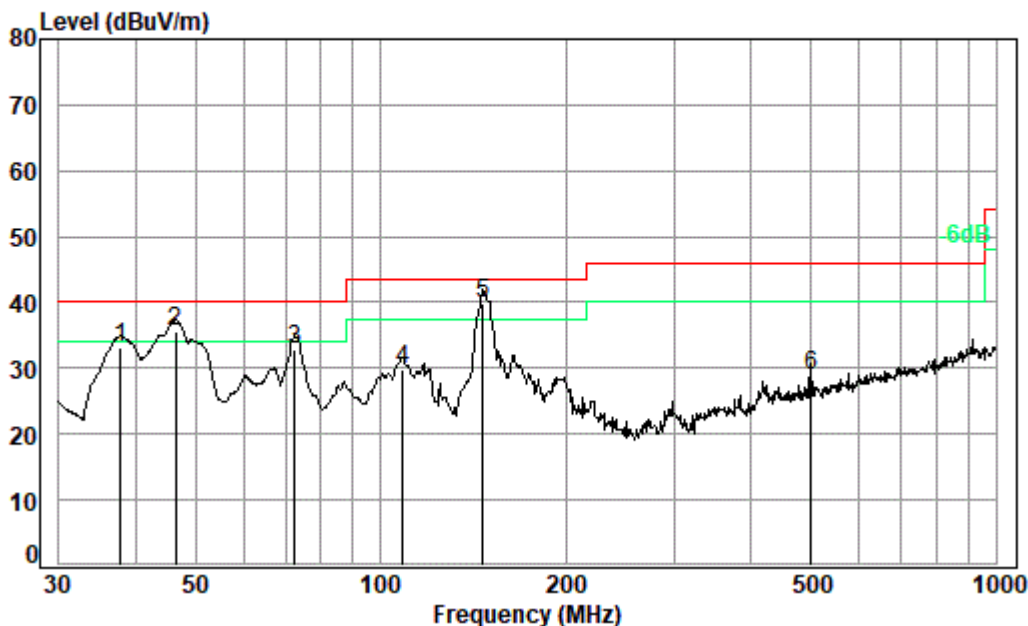
Condition: 3m HORIZONTAL

Job No. : 18098CR

Test mode: o

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	36.77	0.60	18.97	27.44	32.33	24.46	40.00	-15.54
2	72.59	0.88	12.58	27.38	37.13	23.21	40.00	-16.79
3	105.64	1.22	13.73	27.31	35.18	22.82	43.50	-20.68
4 pp	147.40	1.31	14.39	27.10	51.15	39.75	43.50	-3.75
5	202.81	1.42	16.60	26.89	38.95	30.08	43.50	-13.42
6	420.58	2.29	22.89	27.28	32.06	29.96	46.00	-16.04

Mode:o; Polarization:Vertical



Condition: 3m VERTICAL

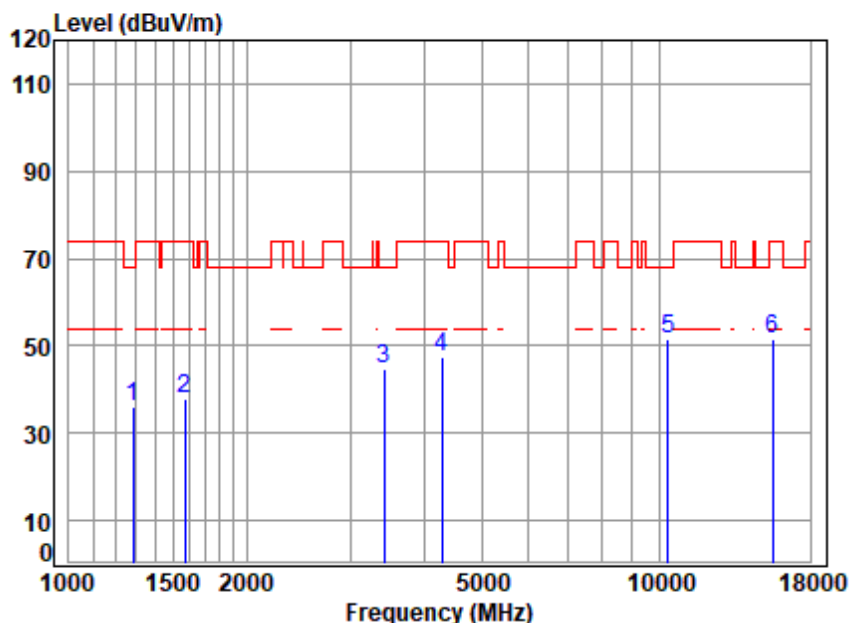
Job No. : 18098CR

Test mode: o

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	37.81	0.60	18.48	27.43	41.40	33.05	40.00	-6.95
2	46.50	0.73	15.27	27.42	46.88	35.46	40.00	-4.54
3	72.59	0.88	12.58	27.38	46.79	32.87	40.00	-7.13
4	108.65	1.22	13.59	27.30	42.25	29.76	43.50	-13.74
5 pp	146.37	1.31	14.30	27.10	51.39	39.90	43.50	-3.60
6	501.18	2.60	24.63	27.61	29.22	28.84	46.00	-17.16

Transmitter emission above 1GHz

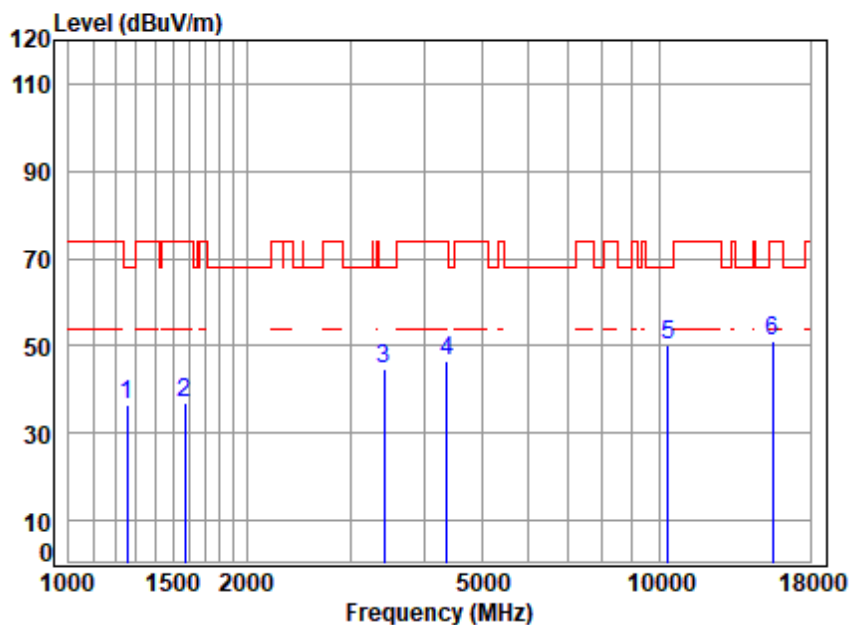
Mode:o; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5180 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1285.904	4.75	24.96	40.55	46.85	36.01	68.20	-32.19	peak
2	1574.265	5.38	26.14	40.75	47.27	38.04	74.00	-35.96	peak
3	3415.787	6.38	31.57	42.01	48.90	44.84	68.20	-23.36	peak
4	4279.589	7.31	33.22	43.07	49.83	47.29	74.00	-26.71	peak
5	10360.000	11.19	37.76	37.97	40.56	51.54	68.20	-16.66	peak
6	15540.000	14.30	40.72	40.60	36.98	51.40	74.00	-22.60	peak

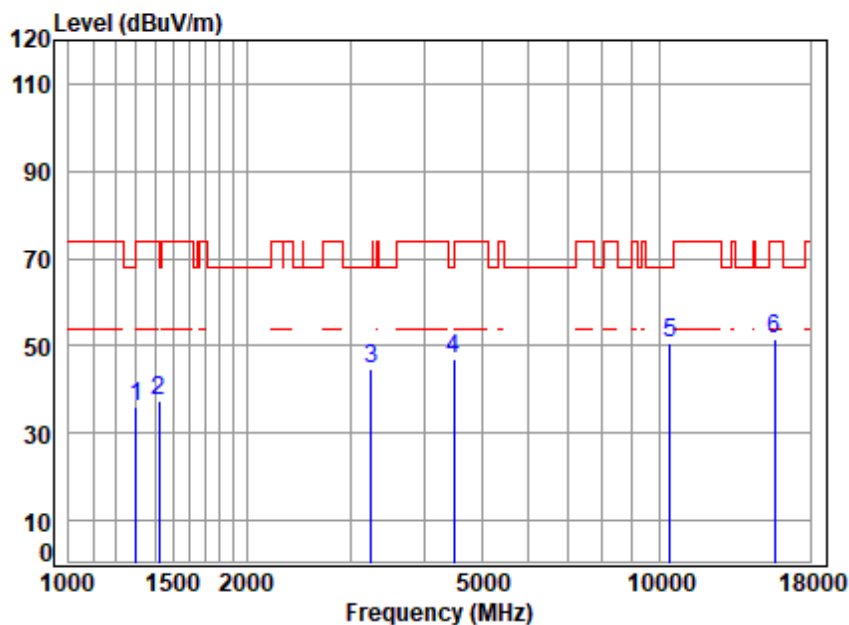
Mode:o; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5180 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	4.64	24.84	40.53	47.63	36.58	68.20	-31.62	peak
2	1574.265	5.38	26.14	40.75	46.19	36.96	74.00	-37.04	peak
3	3425.675	6.39	31.59	42.02	48.89	44.85	68.20	-23.35	peak
4	4367.058	7.41	33.37	43.16	48.87	46.49	74.00	-27.51	peak
5	10360.000	11.19	37.76	37.97	39.39	50.37	68.20	-17.83	peak
6	15540.000	14.30	40.72	40.60	36.57	50.99	74.00	-23.01	peak

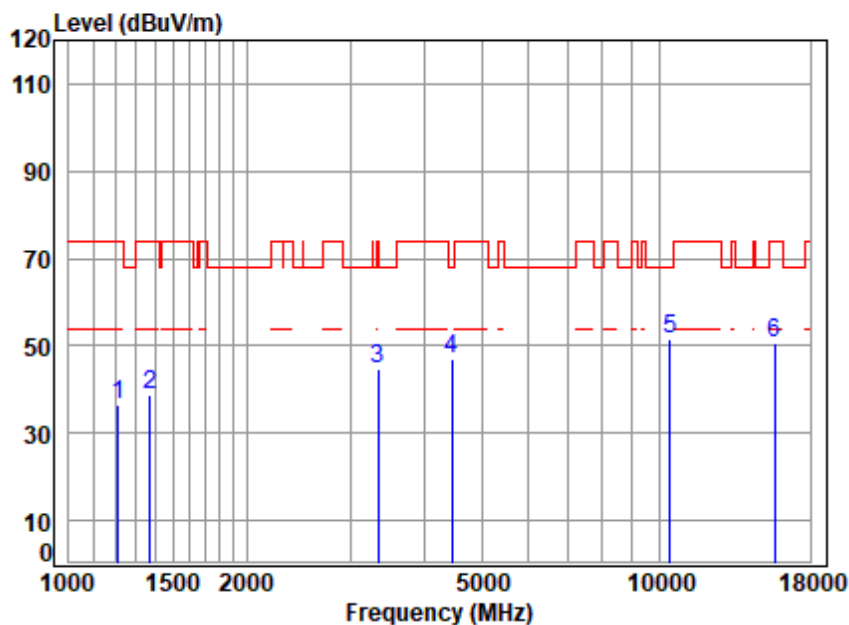
Mode:o; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5220 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	4.80	25.03	40.56	46.90	36.17	74.00	-37.83	peak
2	1422.798	5.23	25.51	40.65	47.51	37.60	74.00	-36.40	peak
3	3252.005	6.23	31.32	41.78	48.87	44.64	68.20	-23.56	peak
4	4482.150	7.54	33.57	43.29	49.20	47.02	68.20	-21.18	peak
5	10440.000	11.25	37.72	38.01	39.88	50.84	68.20	-17.36	peak
6	15660.000	14.48	40.80	40.58	36.84	51.54	74.00	-22.46	peak

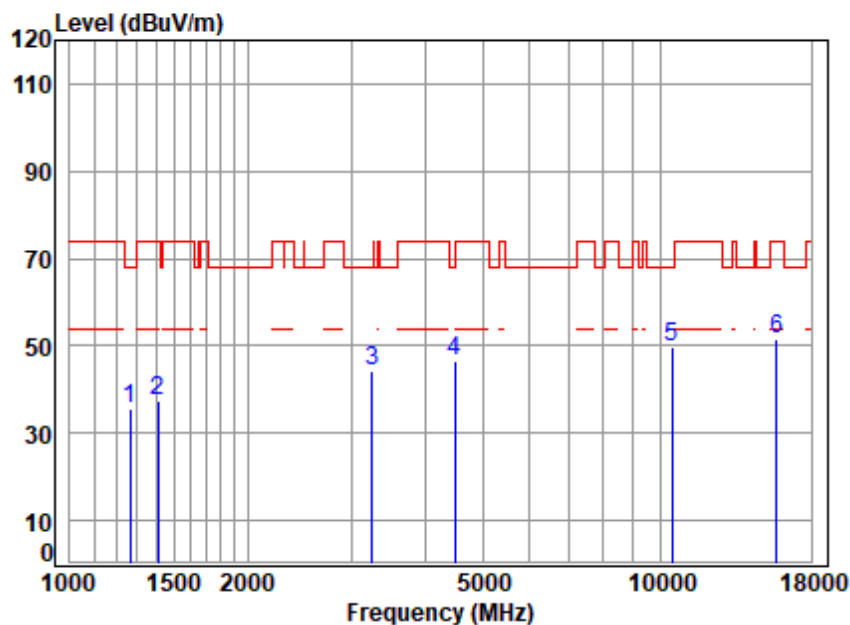
Mode:o; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5220 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1213.677	4.47	24.65	40.49	47.68	36.31	74.00	-37.69 peak
2	1374.295	5.06	25.33	40.62	49.01	38.78	74.00	-35.22 peak
3	3337.710	6.31	31.45	41.90	49.02	44.88	74.00	-29.12 peak
4	4456.315	7.51	33.53	43.26	49.02	46.80	68.20	-21.40 peak
5	10440.000	11.25	37.72	38.01	40.50	51.46	68.20	-16.74 peak
6	15660.000	14.48	40.80	40.58	36.16	50.86	74.00	-23.14 peak

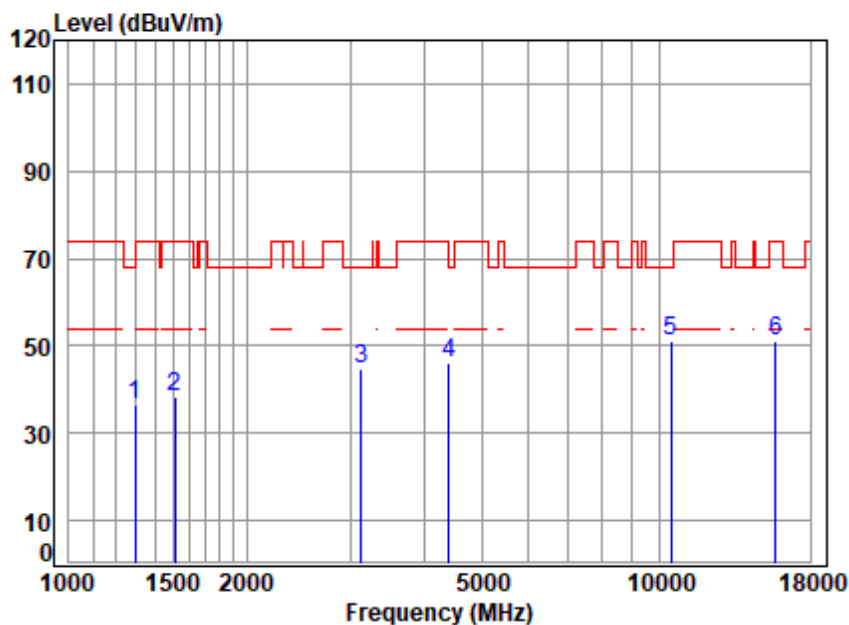
Mode:o; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5240 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	4.66	24.87	40.53	46.79	35.79	68.20	-32.41	peak
2	1410.514	5.19	25.47	40.64	47.32	37.34	74.00	-36.66	peak
3	3252.005	6.23	31.32	41.78	48.47	44.24	68.20	-23.96	peak
4	4482.150	7.54	33.57	43.29	48.77	46.59	68.20	-21.61	peak
5	10480.000	11.28	37.71	38.03	38.78	49.74	68.20	-18.46	peak
6	15720.000	14.57	40.83	40.57	36.69	51.52	74.00	-22.48	peak

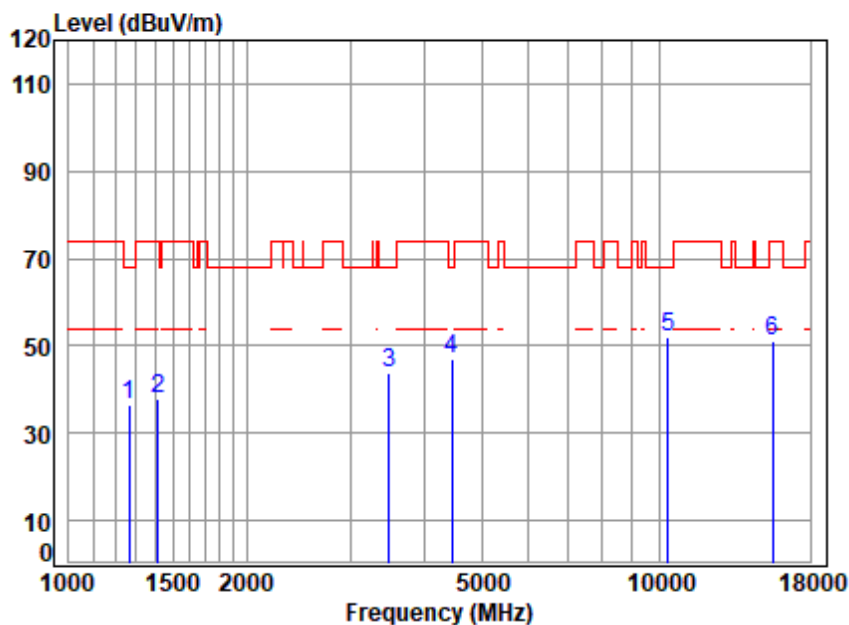
Mode:o; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5240 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1293.359	4.77	25.00	40.56	47.07	36.28	68.20	-31.92	peak
2	1511.833	5.46	25.85	40.71	47.61	38.21	74.00	-35.79	peak
3	3123.039	6.11	31.11	41.59	49.02	44.65	68.20	-23.55	peak
4	4405.090	7.46	33.44	43.20	48.52	46.22	68.20	-21.98	peak
5	10480.000	11.28	37.71	38.03	40.34	51.30	68.20	-16.90	peak
6	15720.000	14.57	40.83	40.57	36.40	51.23	74.00	-22.77	peak

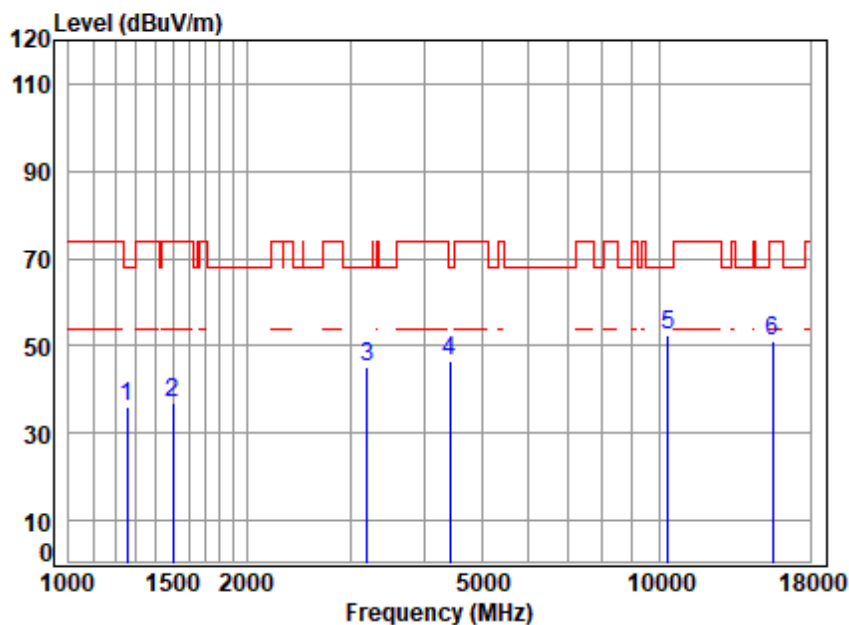
Mode:o; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5180 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1267.454	4.68	24.89	40.54	47.38	36.41	68.20	-31.79	peak
2	1418.692	5.21	25.50	40.65	47.86	37.92	74.00	-36.08	peak
3	3485.601	6.45	31.68	42.10	47.90	43.93	68.20	-24.27	peak
4	4456.315	7.51	33.53	43.26	49.22	47.00	68.20	-21.20	peak
5	10360.000	11.19	37.76	37.97	40.85	51.83	68.20	-16.37	peak
6	15540.000	14.30	40.72	40.60	36.78	51.20	74.00	-22.80	peak

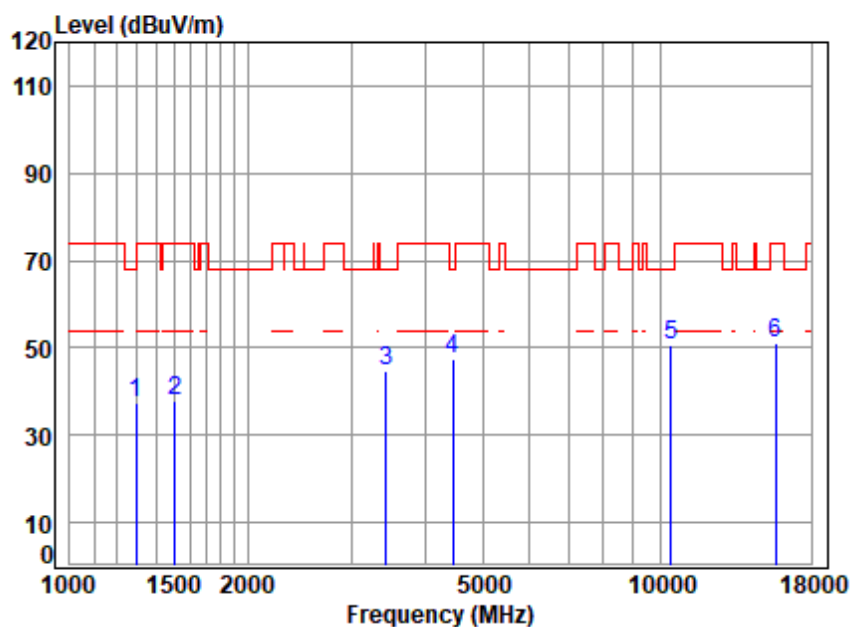
Mode:o; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5180 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	4.64	24.84	40.53	47.10	36.05	68.20	-32.15	peak
2	1503.119	5.48	25.81	40.71	46.54	37.12	74.00	-36.88	peak
3	3196.094	6.18	31.23	41.70	49.45	45.16	68.20	-23.04	peak
4	4417.841	7.47	33.46	43.22	48.60	46.31	68.20	-21.89	peak
5	10360.000	11.19	37.76	37.97	41.68	52.66	68.20	-15.54	peak
6	15540.000	14.30	40.72	40.60	36.48	50.90	74.00	-23.10	peak

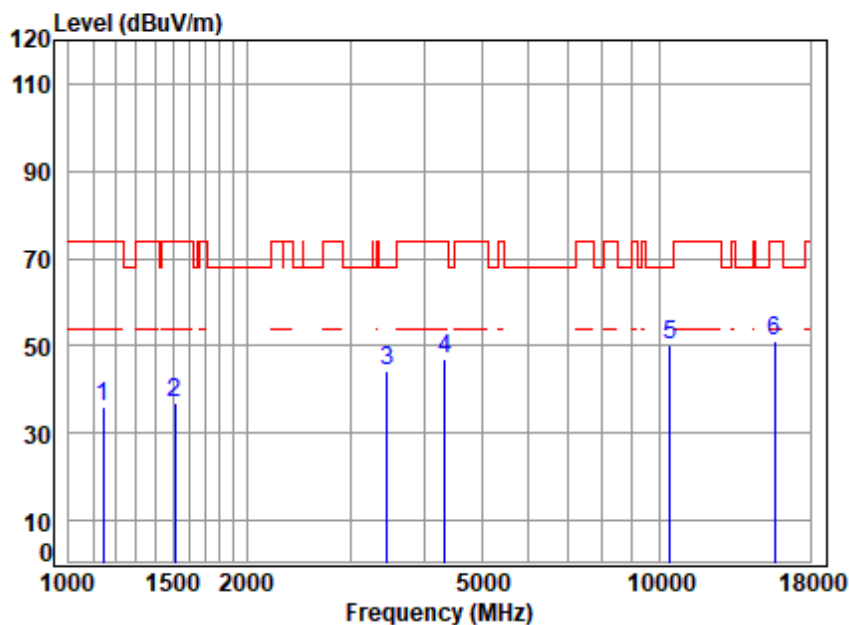
Mode:o; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5220 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	4.79	25.01	40.56	48.07	37.31	68.20	-30.89	peak
2	1507.470	5.47	25.83	40.71	47.19	37.78	74.00	-36.22	peak
3	3435.590	6.40	31.60	42.04	48.76	44.72	68.20	-23.48	peak
4	4456.315	7.51	33.53	43.26	49.69	47.47	68.20	-20.73	peak
5	10440.000	11.25	37.72	38.01	39.50	50.46	68.20	-17.74	peak
6	15660.000	14.48	40.80	40.58	36.30	51.00	74.00	-23.00	peak

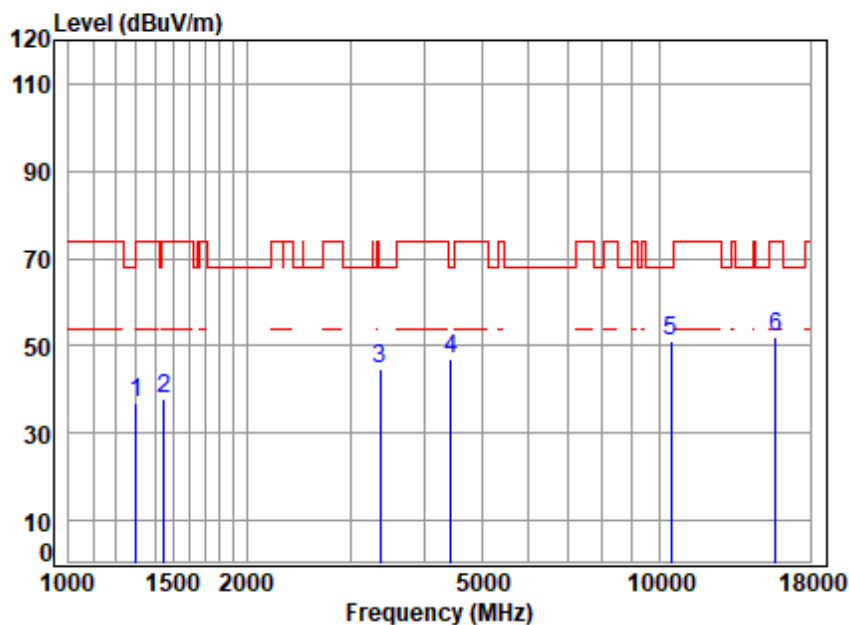
Mode:o; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5220 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1145.507	4.20	24.34	40.44	48.02	36.12	74.00	-37.88 peak
2	1511.833	5.46	25.85	40.71	46.16	36.76	74.00	-37.24 peak
3	3465.510	6.43	31.65	42.08	48.42	44.42	68.20	-23.78 peak
4	4341.886	7.38	33.33	43.14	49.48	47.05	74.00	-26.95 peak
5	10440.000	11.25	37.72	38.01	39.18	50.14	68.20	-18.06 peak
6	15660.000	14.48	40.80	40.58	36.23	50.93	74.00	-23.07 peak

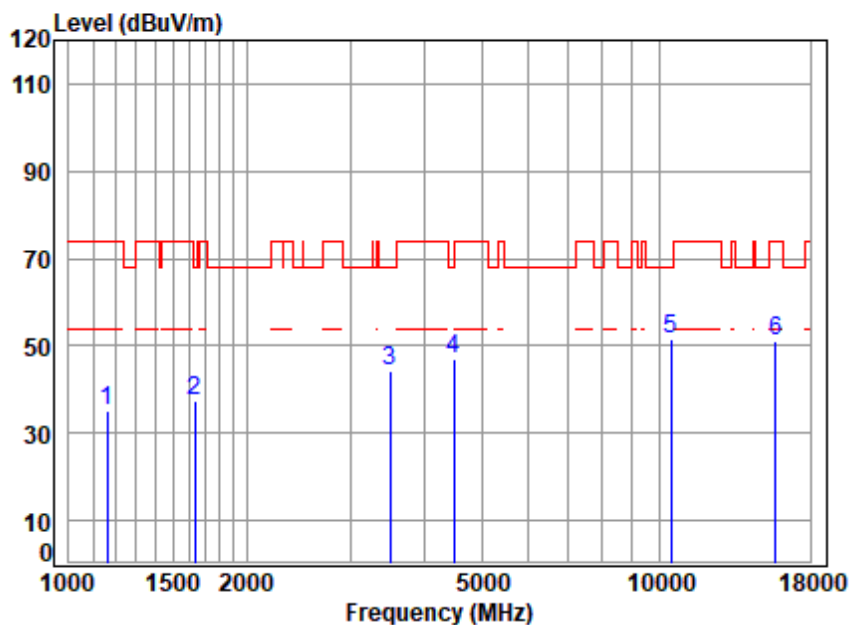
Mode:o; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5240 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	4.80	25.03	40.56	47.50	36.77	74.00	-37.23	peak
2	1451.878	5.32	25.62	40.67	47.44	37.71	74.00	-36.29	peak
3	3366.778	6.34	31.50	41.94	48.72	44.62	68.20	-23.58	peak
4	4430.628	7.48	33.48	43.23	49.17	46.90	68.20	-21.30	peak
5	10480.000	11.28	37.71	38.03	40.24	51.20	68.20	-17.00	peak
6	15720.000	14.57	40.83	40.57	36.98	51.81	74.00	-22.19	peak

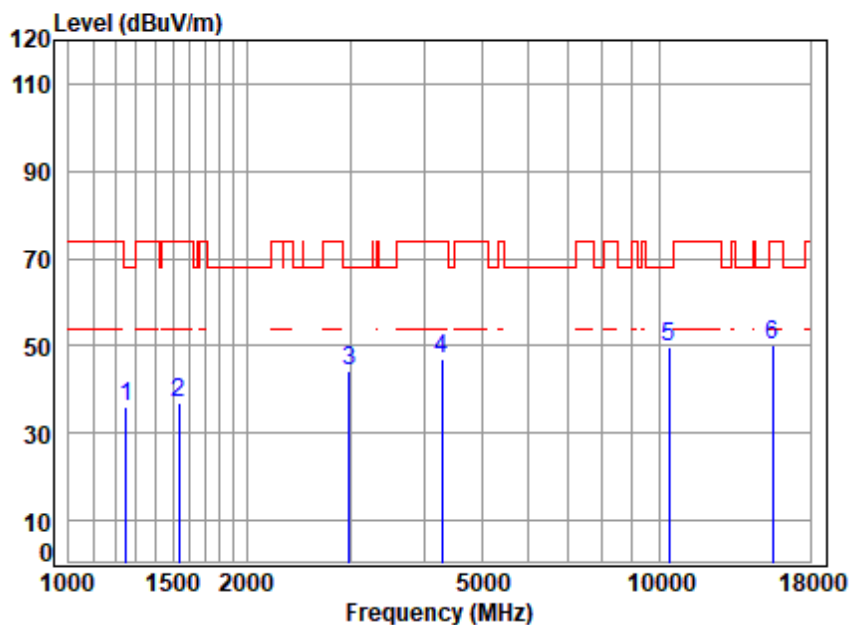
Mode:o; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5240 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1162.182	4.27	24.42	40.45	46.85	35.09	74.00	-38.91	peak
2	1634.543	5.31	26.40	40.79	46.39	37.31	68.20	-30.89	peak
3	3495.691	6.46	31.69	42.12	48.21	44.24	68.20	-23.96	peak
4	4482.150	7.54	33.57	43.29	49.00	46.82	68.20	-21.38	peak
5	10480.000	11.28	37.71	38.03	40.43	51.39	68.20	-16.81	peak
6	15720.000	14.57	40.83	40.57	36.44	51.27	74.00	-22.73	peak

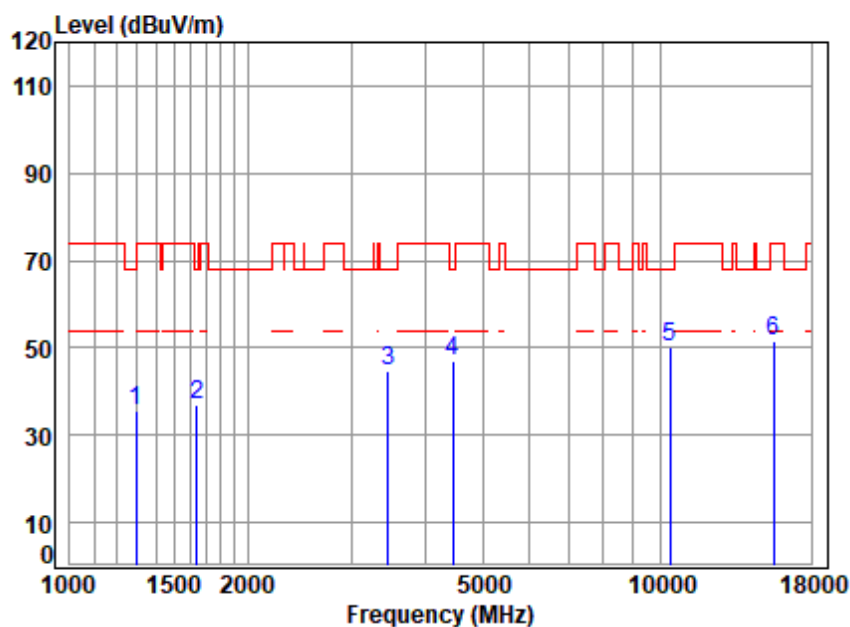
Mode:o; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5190 TX RSE
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	4.62	24.82	40.53	46.97	35.88	68.20	-32.32	peak
2	1533.841	5.44	25.96	40.73	46.44	37.11	74.00	-36.89	peak
3	2981.899	5.97	30.83	41.39	48.88	44.29	68.20	-23.91	peak
4	4291.977	7.33	33.24	43.08	49.62	47.11	74.00	-26.89	peak
5	10380.000	11.21	37.75	37.98	38.61	49.59	68.20	-18.61	peak
6	15570.000	14.35	40.74	40.60	35.70	50.19	74.00	-23.81	peak

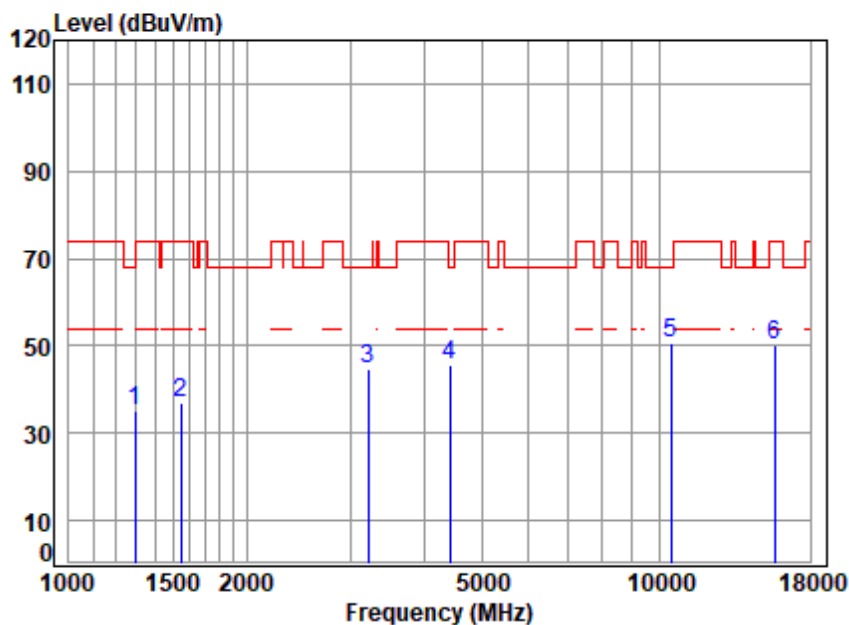
Mode:o; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5190 TX RSE
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1297.103	4.79	25.01	40.56	46.19	35.43	68.20	-32.77 peak
2	1639.274	5.30	26.42	40.79	46.21	37.14	68.20	-31.06 peak
3	3455.508	6.42	31.63	42.06	48.81	44.80	68.20	-23.40 peak
4	4456.315	7.51	33.53	43.26	49.14	46.92	68.20	-21.28 peak
5	10380.000	11.21	37.75	37.98	39.00	49.98	68.20	-18.22 peak
6	15570.000	14.35	40.74	40.60	36.95	51.44	74.00	-22.56 peak

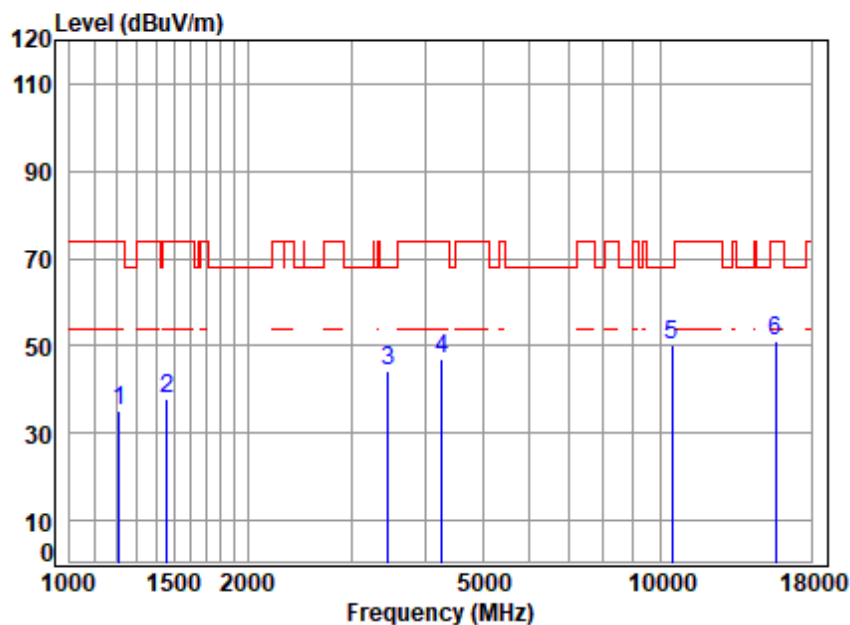
Mode:o; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5230 TX RSE
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1293.359	4.77	25.00	40.56	46.14	35.35	68.20	-32.85 peak
2	1547.199	5.42	26.02	40.74	46.44	37.14	74.00	-36.86 peak
3	3214.623	6.20	31.26	41.72	48.88	44.62	68.20	-23.58 peak
4	4417.841	7.47	33.46	43.22	48.11	45.82	68.20	-22.38 peak
5	10460.000	11.26	37.72	38.02	39.78	50.74	68.20	-17.46 peak
6	15690.000	14.53	40.82	40.58	35.32	50.09	74.00	-23.91 peak

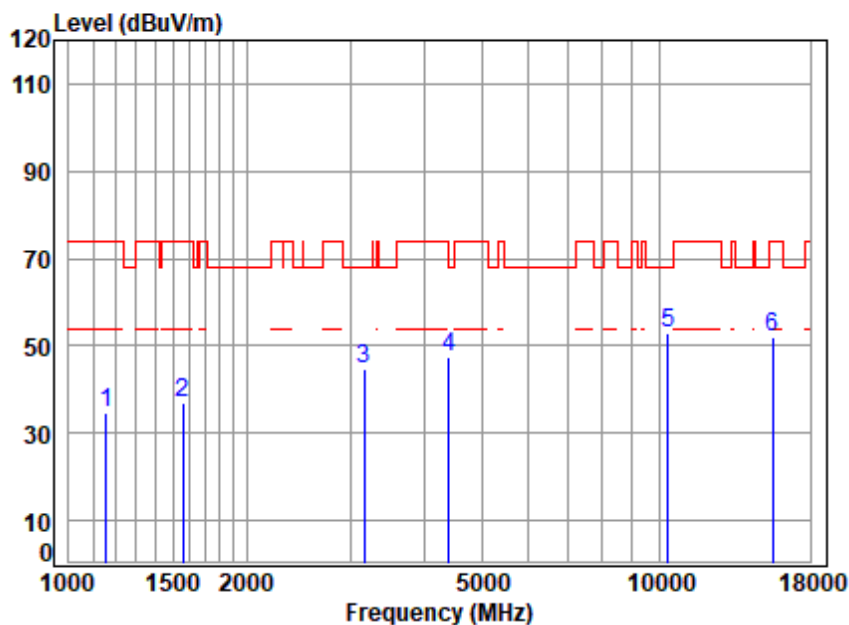
Mode:o; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5230 TX RSE
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1210.174	4.46	24.64	40.49	46.35	34.96	74.00	-39.04	peak
2	1460.295	5.35	25.65	40.68	47.33	37.65	74.00	-36.35	peak
3	3455.508	6.42	31.63	42.06	48.47	44.46	68.20	-23.74	peak
4	4267.237	7.30	33.19	43.06	49.65	47.08	74.00	-26.92	peak
5	10460.000	11.26	37.72	38.02	39.00	49.96	68.20	-18.24	peak
6	15690.000	14.53	40.82	40.58	36.34	51.11	74.00	-22.89	peak

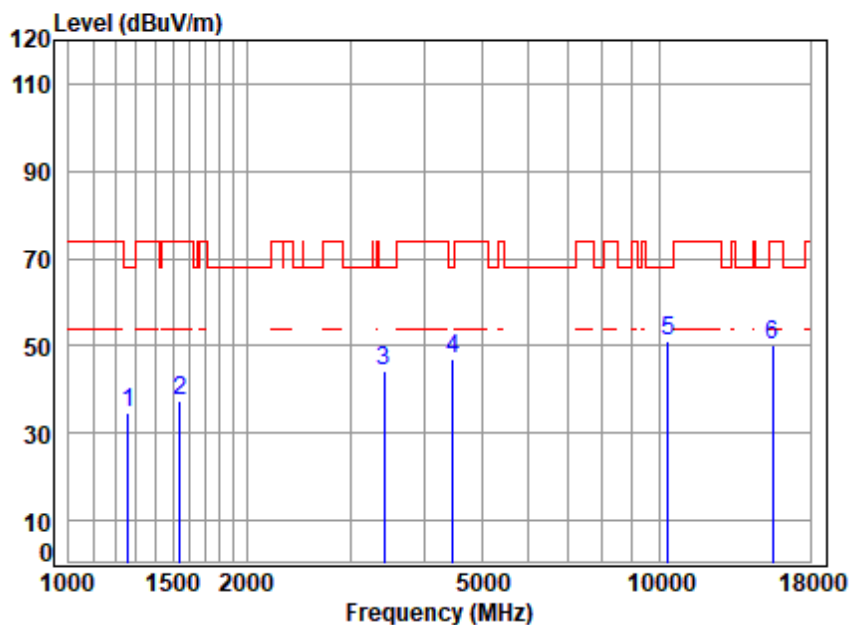
Mode:o; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5180 TX RSE
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.24	24.38	40.44	46.62	34.80	74.00	-39.20	peak
2	1560.673	5.40	26.08	40.75	46.10	36.83	74.00	-37.17	peak
3	3168.500	6.15	31.18	41.66	48.89	44.56	68.20	-23.64	peak
4	4405.090	7.46	33.44	43.20	49.89	47.59	68.20	-20.61	peak
5	10360.000	11.19	37.76	37.97	42.14	53.12	68.20	-15.08	peak
6	15540.000	14.30	40.72	40.60	37.56	51.98	74.00	-22.02	peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5180 TX RSE
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	4.65	24.85	40.53	45.88	34.85	68.20	-33.35	peak
2	1542.733	5.42	26.00	40.73	46.85	37.54	74.00	-36.46	peak
3	3415.787	6.38	31.57	42.01	48.15	44.09	68.20	-24.11	peak
4	4469.214	7.53	33.55	43.27	49.27	47.08	68.20	-21.12	peak
5	10360.000	11.19	37.76	37.97	39.91	50.89	68.20	-17.31	peak
6	15540.000	14.30	40.72	40.60	35.76	50.18	74.00	-23.82	peak

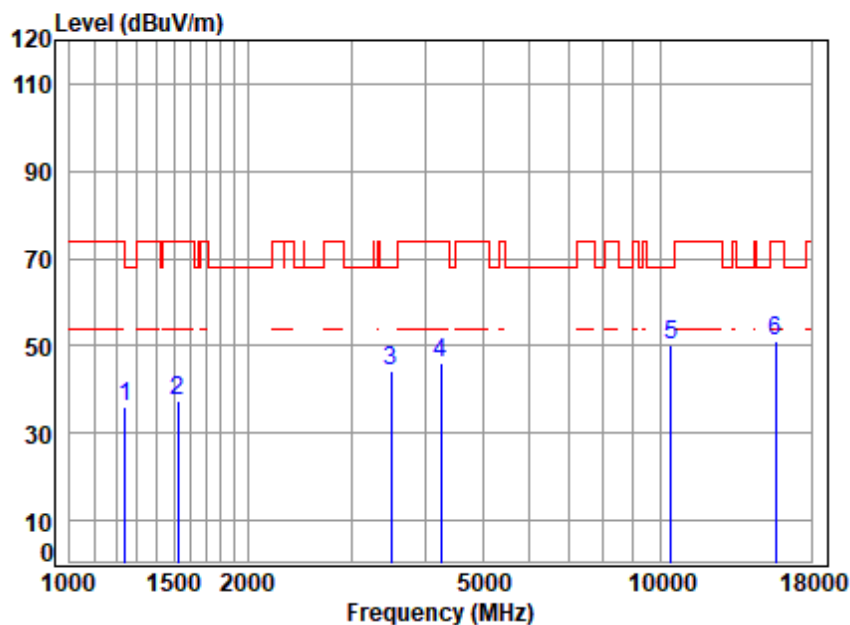


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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

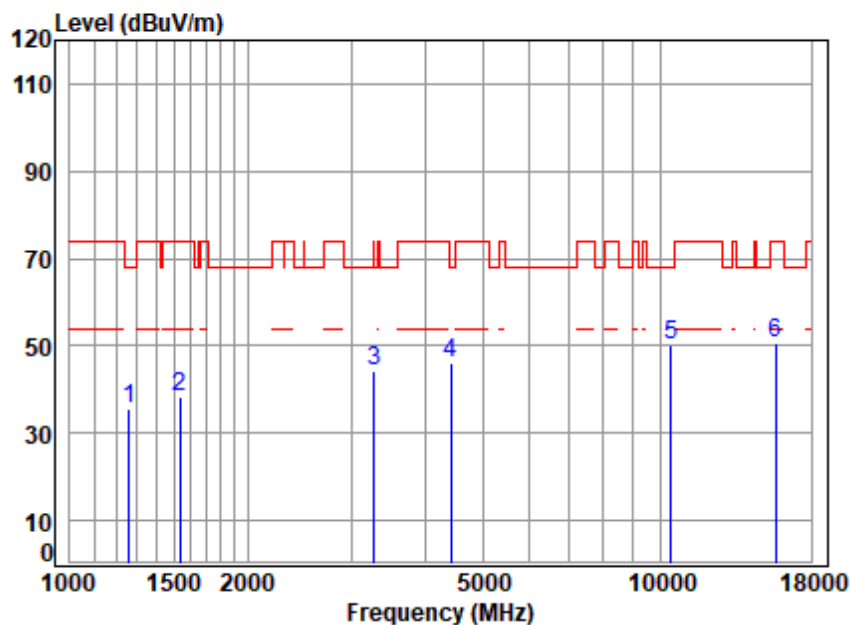
Mode:o; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5220 TX RSE
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1242.068	4.58	24.78	40.52	47.14	35.98	68.20	-32.22	peak
2	1525.000	5.45	25.91	40.72	46.79	37.43	74.00	-36.57	peak
3	3495.691	6.46	31.69	42.12	48.33	44.36	68.20	-23.84	peak
4	4242.641	7.27	33.15	43.03	48.89	46.28	74.00	-27.72	peak
5	10440.000	11.25	37.72	38.01	39.26	50.22	68.20	-17.98	peak
6	15660.000	14.48	40.80	40.58	36.22	50.92	74.00	-23.08	peak

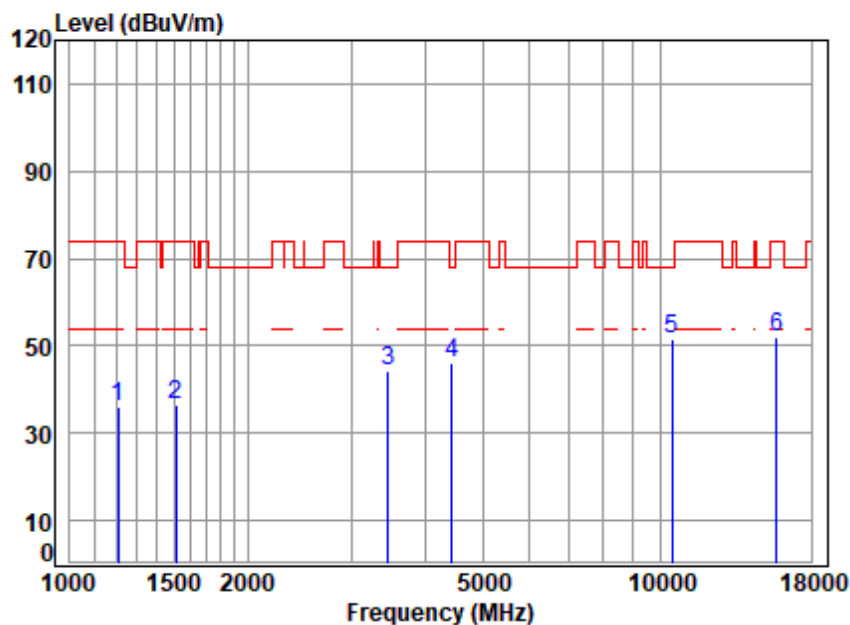
Mode:o; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5220 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	4.65	24.85	40.53	46.82	35.79	68.20	-32.41	peak
2	1538.281	5.43	25.98	40.73	47.50	38.18	74.00	-35.82	peak
3	3280.326	6.26	31.36	41.82	48.48	44.28	68.20	-23.92	peak
4	4417.841	7.47	33.46	43.22	48.44	46.15	68.20	-22.05	peak
5	10440.000	11.25	37.72	38.01	39.05	50.01	68.20	-18.19	peak
6	15660.000	14.48	40.80	40.58	35.83	50.53	74.00	-23.47	peak

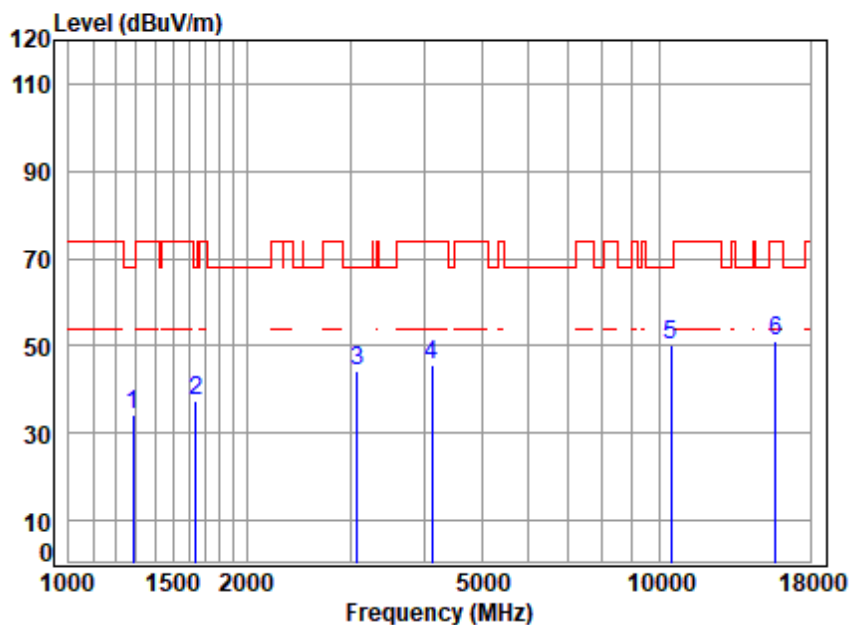
Mode:o; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5240 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1206.682	4.44	24.62	40.49	47.32	35.89	74.00	-38.11	peak
2	1511.833	5.46	25.85	40.71	46.12	36.72	74.00	-37.28	peak
3	3465.510	6.43	31.65	42.08	48.27	44.27	68.20	-23.93	peak
4	4443.453	7.50	33.50	43.25	48.32	46.07	68.20	-22.13	peak
5	10480.000	11.28	37.71	38.03	40.78	51.74	68.20	-16.46	peak
6	15720.000	14.57	40.83	40.57	37.11	51.94	74.00	-22.06	peak

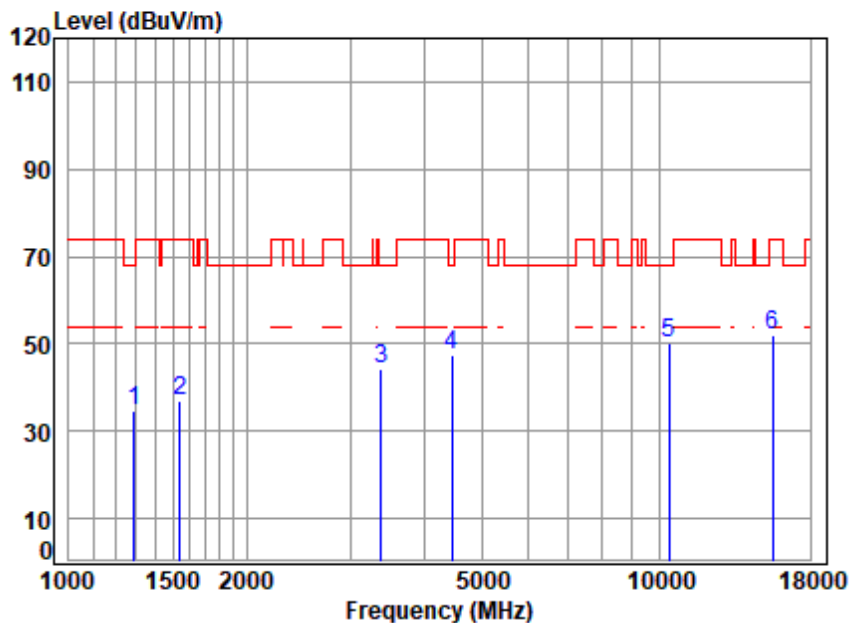
Mode:o; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5240 TX RSE
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1285.904	4.75	24.96	40.55	45.26	34.42	68.20	-33.78	peak
2	1644.019	5.30	26.44	40.80	46.27	37.21	68.20	-30.99	peak
3	3078.229	6.06	31.03	41.52	48.84	44.41	68.20	-23.79	peak
4	4121.768	7.13	32.93	42.89	48.62	45.79	74.00	-28.21	peak
5	10480.000	11.28	37.71	38.03	39.36	50.32	68.20	-17.88	peak
6	15720.000	14.57	40.83	40.57	36.24	51.07	74.00	-22.93	peak

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

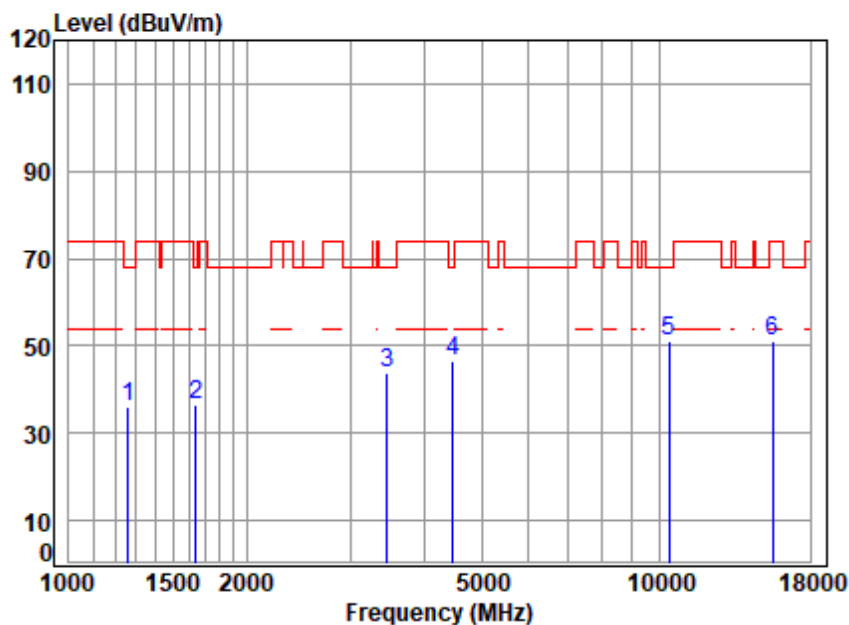


Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5190 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	4.76	24.98	40.55	45.32	34.51	68.20	-33.69	peak
2	1542.733	5.42	26.00	40.73	46.35	37.04	74.00	-36.96	peak
3	3376.523	6.35	31.51	41.96	48.42	44.32	68.20	-23.88	peak
4	4456.315	7.51	33.53	43.26	49.76	47.54	68.20	-20.66	peak
5	10380.000	11.21	37.75	37.98	39.05	50.03	68.20	-18.17	peak
6	15570.000	14.35	40.74	40.60	37.33	51.82	74.00	-22.18	peak



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

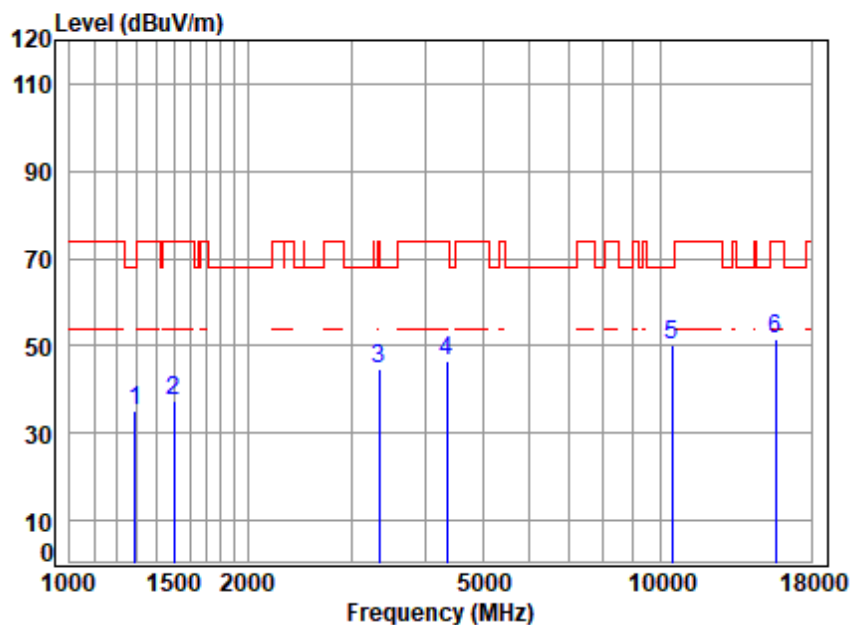


Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5190 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	4.65	24.85	40.53	46.94	35.91	68.20	-32.29	peak
2	1639.274	5.30	26.42	40.79	45.48	36.41	68.20	-31.79	peak
3	3465.510	6.43	31.65	42.08	47.95	43.95	68.20	-24.25	peak
4	4469.214	7.53	33.55	43.27	48.78	46.59	68.20	-21.61	peak
5	10380.000	11.21	37.75	37.98	40.30	51.28	68.20	-16.92	peak
6	15570.000	14.35	40.74	40.60	36.44	50.93	74.00	-23.07	peak



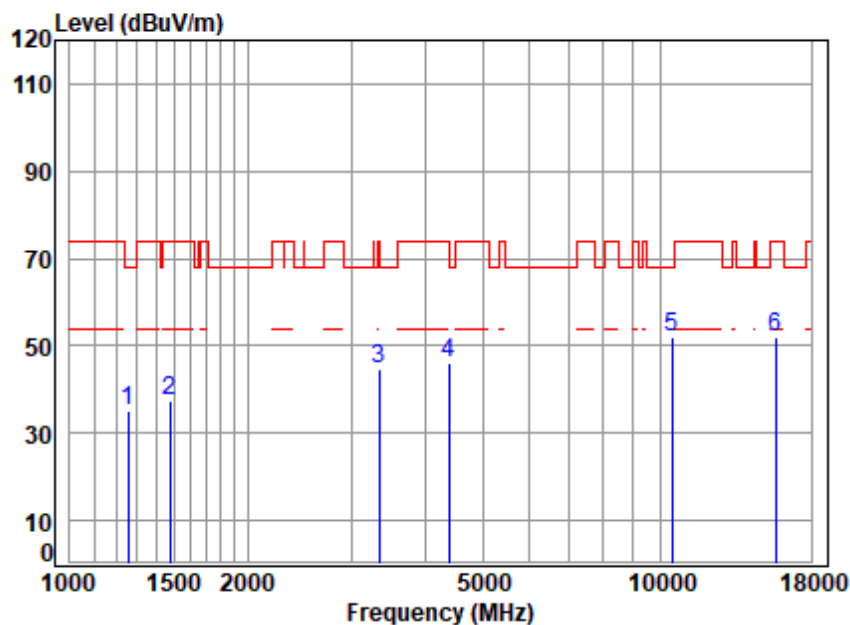
Mode:o; Polarization:Horizontal; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5230 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	4.76	24.98	40.55	45.82	35.01	68.20	-33.19	peak
2	1503.119	5.48	25.81	40.71	46.78	37.36	74.00	-36.64	peak
3	3347.371	6.32	31.47	41.91	48.74	44.62	74.00	-29.38	peak
4	4354.454	7.40	33.35	43.15	48.86	46.46	74.00	-27.54	peak
5	10460.000	11.26	37.72	38.02	39.19	50.15	68.20	-18.05	peak
6	15690.000	14.53	40.82	40.58	36.74	51.51	74.00	-22.49	peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5230 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	4.64	24.84	40.53	46.37	35.32	68.20	-32.88	peak
2	1477.276	5.41	25.72	40.69	47.15	37.59	74.00	-36.41	peak
3	3347.371	6.32	31.47	41.91	48.76	44.64	74.00	-29.36	peak
4	4392.376	7.44	33.42	43.19	48.33	46.00	74.00	-28.00	peak
5	10460.000	11.26	37.72	38.02	41.28	52.24	68.20	-15.96	peak
6	15690.000	14.53	40.82	40.58	37.25	52.02	74.00	-21.98	peak

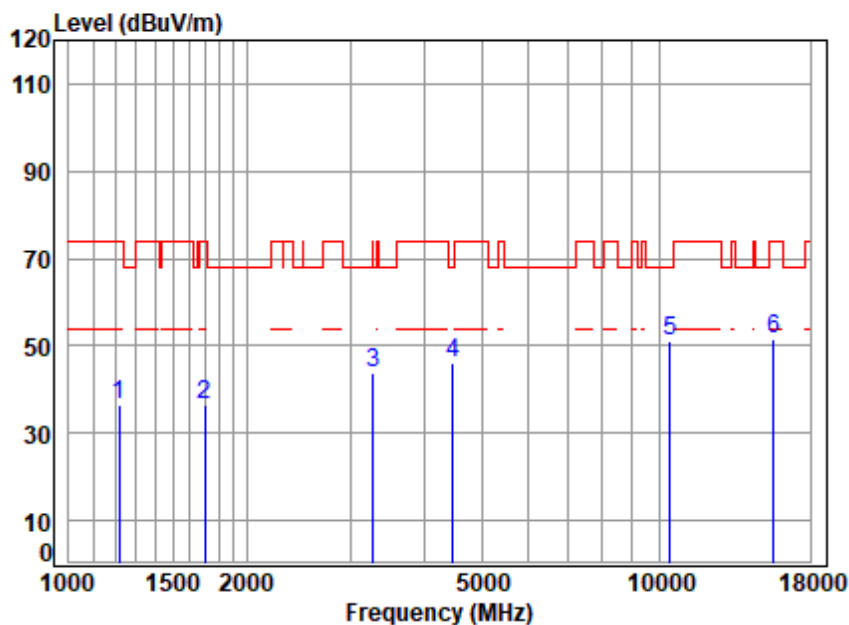


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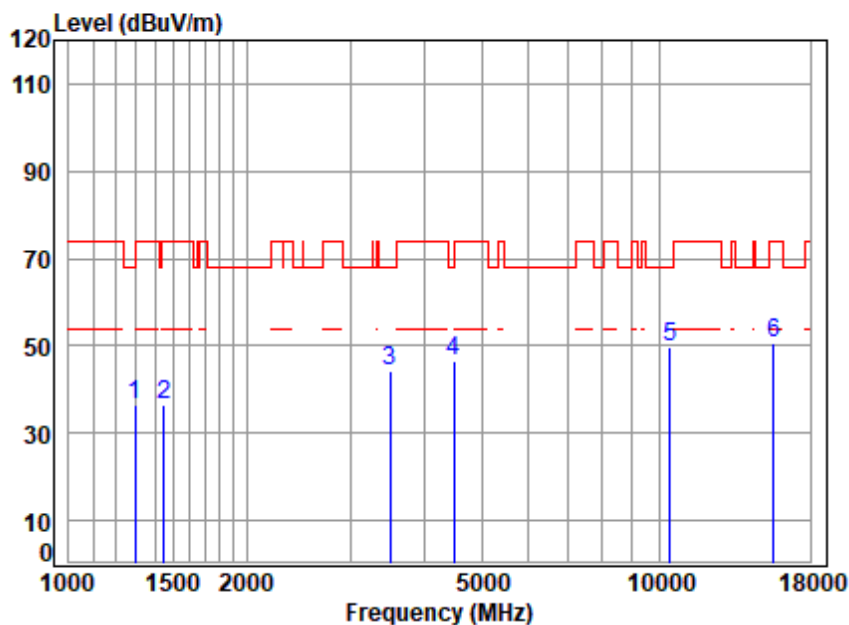
Mode:o; Polarization:Horizontal; Modulation:802.11ac; bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5210 TX RSE
Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1217.190	4.49	24.67	40.50	47.66	36.32	74.00	-37.68	peak
2	1702.042	5.23	26.68	40.83	45.60	36.68	74.00	-37.32	peak
3	3270.858	6.25	31.35	41.81	47.82	43.61	68.20	-24.59	peak
4	4469.214	7.53	33.55	43.27	48.14	45.95	68.20	-22.25	peak
5	10420.000	11.24	37.73	38.00	40.31	51.28	68.20	-16.92	peak
6	15630.000	14.44	40.78	40.59	36.93	51.56	74.00	-22.44	peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5210 TX RSE
Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1293.359	4.77	25.00	40.56	47.08	36.29	68.20	-31.91	peak
2	1451.878	5.32	25.62	40.67	46.06	36.33	74.00	-37.67	peak
3	3495.691	6.46	31.69	42.12	48.03	44.06	68.20	-24.14	peak
4	4482.150	7.54	33.57	43.29	48.80	46.62	68.20	-21.58	peak
5	10420.000	11.24	37.73	38.00	38.79	49.76	68.20	-18.44	peak
6	15630.000	14.44	40.78	40.59	36.00	50.63	74.00	-23.37	peak

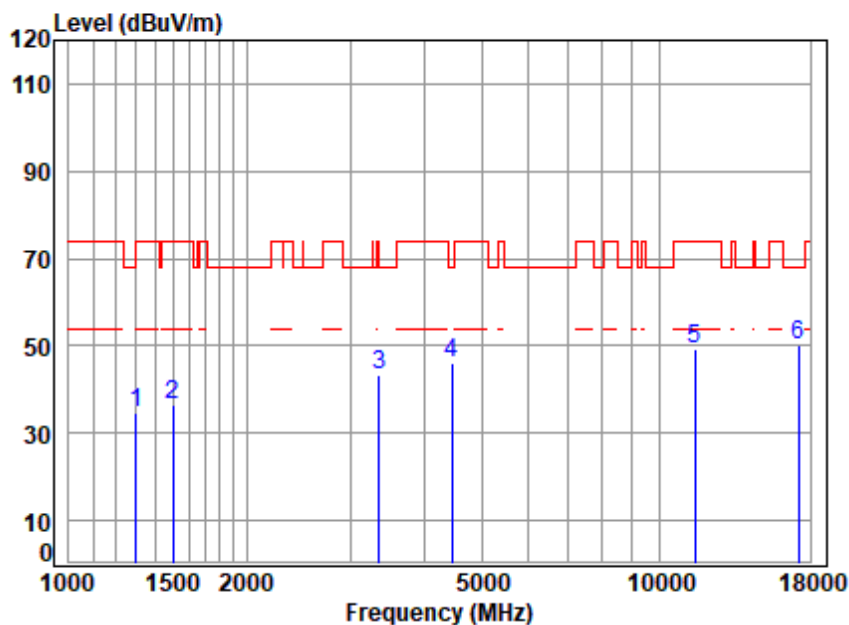


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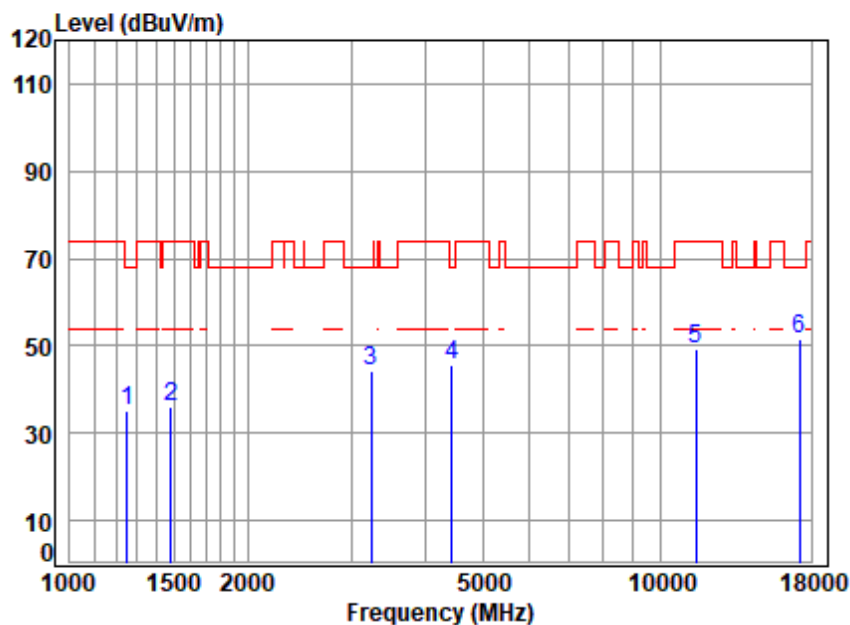
Mode:p; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5745 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	4.80	25.03	40.56	45.49	34.76	74.00	-39.24	peak
2	1503.119	5.48	25.81	40.71	46.06	36.64	74.00	-37.36	peak
3	3357.061	6.33	31.48	41.93	47.25	43.13	74.00	-30.87	peak
4	4456.315	7.51	33.53	43.26	48.30	46.08	68.20	-22.12	peak
5	11490.000	12.13	37.90	38.49	37.88	49.42	74.00	-24.58	peak
6	17235.000	16.18	42.74	40.32	31.76	50.36	68.20	-17.84	peak

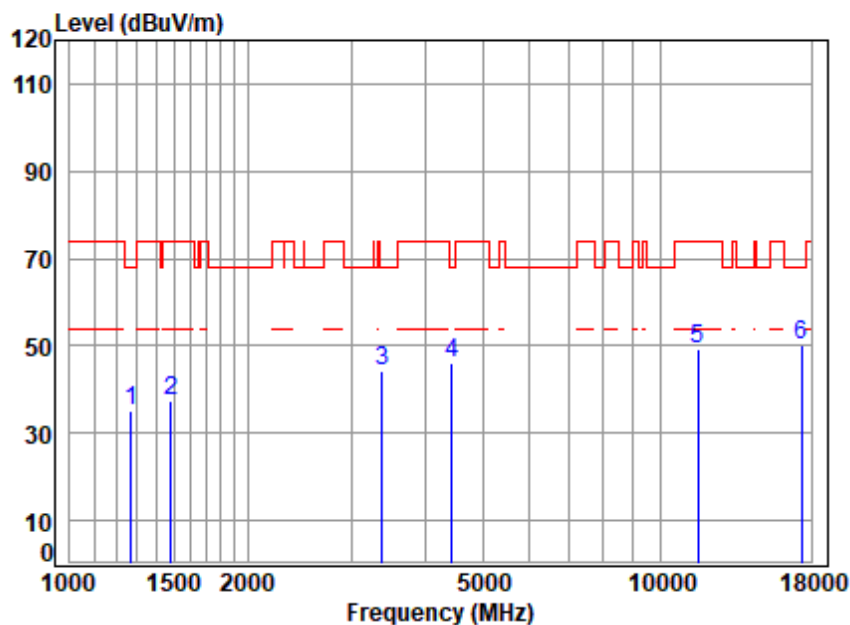
Mode:p; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5745 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	4.62	24.82	40.53	46.01	34.92	68.20	-33.28	peak
2	1485.841	5.43	25.75	40.70	45.79	36.27	74.00	-37.73	peak
3	3233.260	6.21	31.29	41.75	48.40	44.15	68.20	-24.05	peak
4	4430.628	7.48	33.48	43.23	47.73	45.46	68.20	-22.74	peak
5	11490.000	12.13	37.90	38.49	37.83	49.37	74.00	-24.63	peak
6	17235.000	16.18	42.74	40.32	32.90	51.50	68.20	-16.70	peak

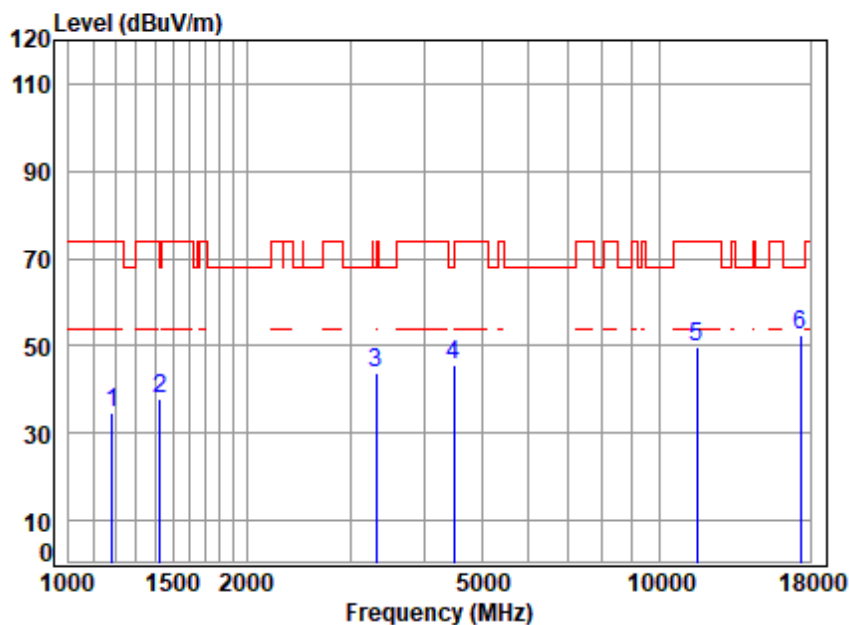
Mode:p; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5785 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1271.123	4.69	24.90	40.54	45.86	34.91	68.20	-33.29	peak
2	1485.841	5.43	25.75	40.70	46.79	37.27	74.00	-36.73	peak
3	3376.523	6.35	31.51	41.96	48.53	44.43	68.20	-23.77	peak
4	4443.453	7.50	33.50	43.25	48.31	46.06	68.20	-22.14	peak
5	11570.000	12.17	37.87	38.52	37.66	49.18	74.00	-24.82	peak
6	17355.000	15.92	42.81	40.30	31.96	50.39	68.20	-17.81	peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5785 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	4.36	24.53	40.47	46.14	34.56	74.00	-39.44	peak
2	1426.916	5.24	25.53	40.66	47.60	37.71	74.00	-36.29	peak
3	3318.471	6.29	31.42	41.87	47.88	43.72	68.20	-24.48	peak
4	4482.150	7.54	33.57	43.29	47.83	45.65	68.20	-22.55	peak
5	11570.000	12.17	37.87	38.52	38.21	49.73	74.00	-24.27	peak
6	17355.000	15.92	42.81	40.30	33.88	52.31	68.20	-15.89	peak

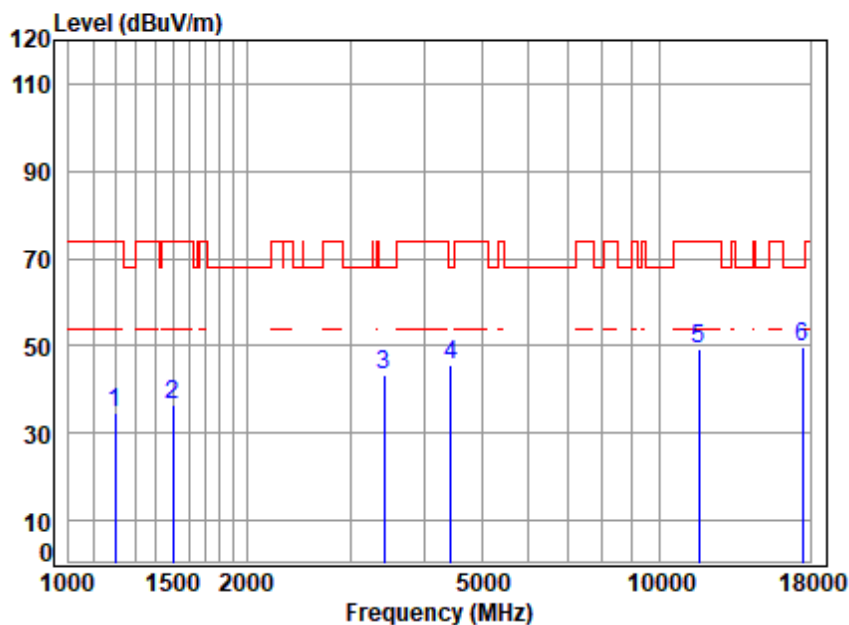


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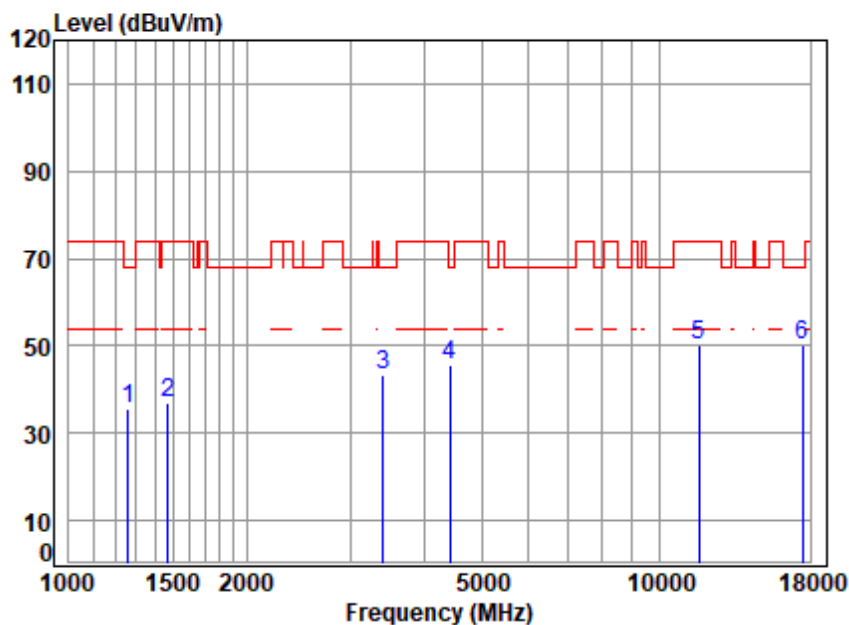
Mode:p; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5825 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	4.40	24.57	40.48	46.02	34.51	74.00	-39.49	peak
2	1498.781	5.48	25.80	40.71	45.93	36.50	74.00	-37.50	peak
3	3415.787	6.38	31.57	42.01	47.49	43.43	68.20	-24.77	peak
4	4443.453	7.50	33.50	43.25	47.87	45.62	68.20	-22.58	peak
5	11650.000	12.20	37.84	38.55	37.83	49.32	74.00	-24.68	peak
6	17475.000	15.65	42.89	40.28	31.63	49.89	68.20	-18.31	peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5825 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	4.65	24.85	40.53	46.58	35.55	68.20	-32.65	peak
2	1473.013	5.39	25.70	40.69	46.44	36.84	74.00	-37.16	peak
3	3405.929	6.38	31.56	42.00	47.59	43.53	68.20	-24.67	peak
4	4417.841	7.47	33.46	43.22	47.88	45.59	68.20	-22.61	peak
5	11650.000	12.20	37.84	38.55	38.56	50.05	74.00	-23.95	peak
6	17475.000	15.65	42.89	40.28	31.84	50.10	68.20	-18.10	peak

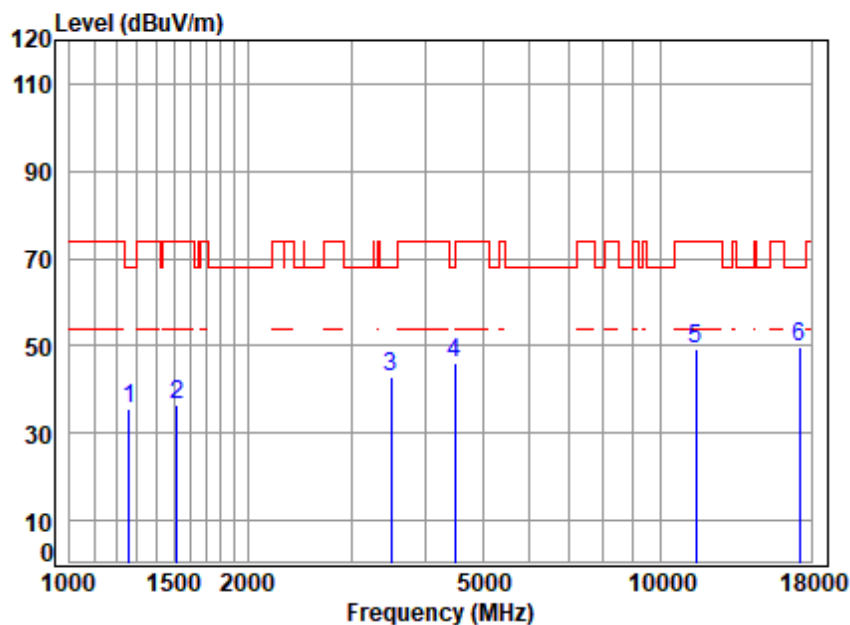


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Mode:p; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low

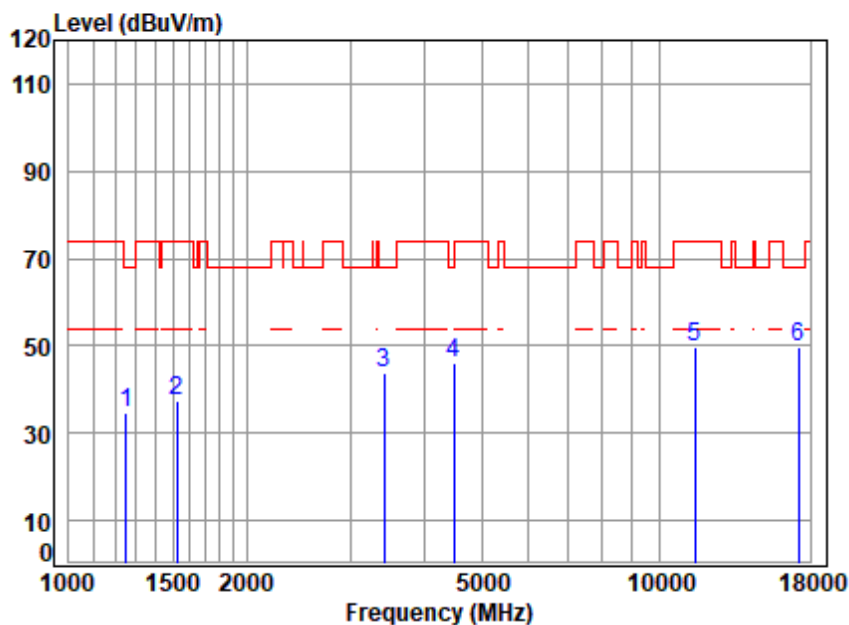


Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5745 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	4.65	24.85	40.53	46.79	35.76	68.20	-32.44	peak
2	1520.598	5.45	25.89	40.72	45.95	36.57	74.00	-37.43	peak
3	3495.691	6.46	31.69	42.12	46.82	42.85	68.20	-25.35	peak
4	4495.125	7.55	33.59	43.30	48.30	46.14	68.20	-22.06	peak
5	11490.000	12.13	37.90	38.49	37.81	49.35	74.00	-24.65	peak
6	17235.000	16.18	42.74	40.32	31.17	49.77	68.20	-18.43	peak



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



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5745 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	4.62	24.82	40.53	45.89	34.80	68.20	-33.40	peak
2	1525.000	5.45	25.91	40.72	46.68	37.32	74.00	-36.68	peak
3	3425.675	6.39	31.59	42.02	47.66	43.62	68.20	-24.58	peak
4	4495.125	7.55	33.59	43.30	48.38	46.22	68.20	-21.98	peak
5	11490.000	12.13	37.90	38.49	38.08	49.62	74.00	-24.38	peak
6	17235.000	16.18	42.74	40.32	31.32	49.92	68.20	-18.28	peak

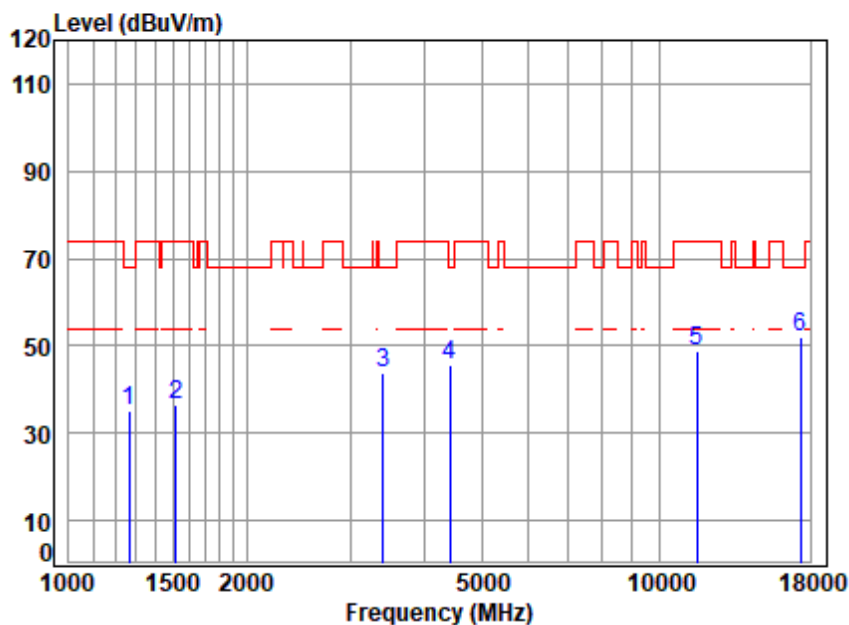


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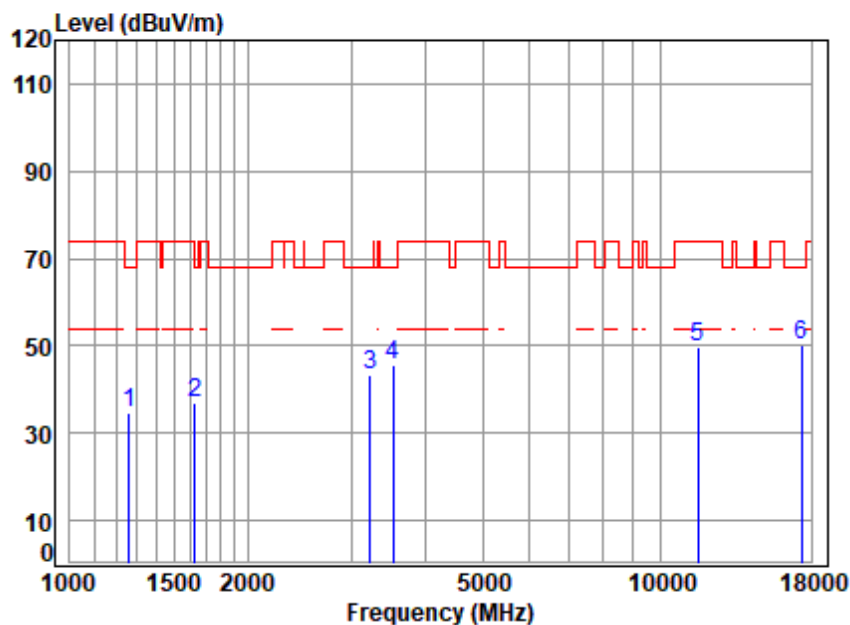
Mode:p; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5785 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	4.66	24.87	40.53	45.99	34.99	68.20	-33.21	peak
2	1520.598	5.45	25.89	40.72	46.08	36.70	74.00	-37.30	peak
3	3405.929	6.38	31.56	42.00	47.91	43.85	68.20	-24.35	peak
4	4417.841	7.47	33.46	43.22	48.05	45.76	68.20	-22.44	peak
5	11570.000	12.17	37.87	38.52	37.21	48.73	74.00	-25.27	peak
6	17355.000	15.92	42.81	40.30	33.42	51.85	68.20	-16.35	peak

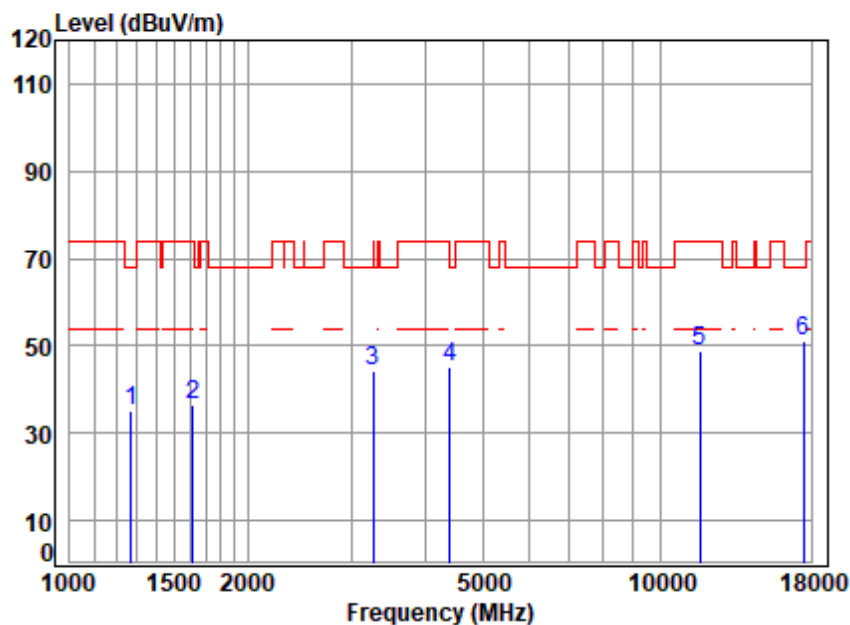
Mode:p; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5785 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	4.65	24.85	40.53	45.58	34.55	68.20	-33.65 peak
2	1629.825	5.31	26.38	40.79	46.03	36.93	68.20	-31.27 peak
3	3223.928	6.20	31.27	41.74	47.60	43.33	68.20	-24.87 peak
4	3526.134	6.49	31.76	42.16	49.56	45.65	68.20	-22.55 peak
5	11570.000	12.17	37.87	38.52	38.20	49.72	74.00	-24.28 peak
6	17355.000	15.92	42.81	40.30	31.87	50.30	68.20	-17.90 peak

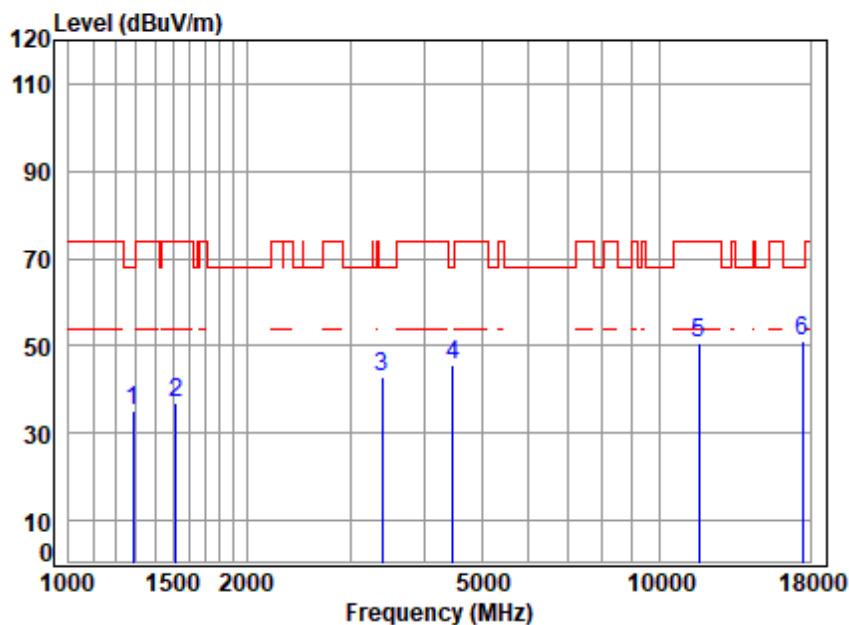
Mode:p; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5825 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1271.123	4.69	24.90	40.54	45.97	35.02	68.20	-33.18 peak
2	1615.754	5.33	26.32	40.78	45.50	36.37	74.00	-37.63 peak
3	3261.418	6.24	31.33	41.79	48.27	44.05	74.00	-29.95 peak
4	4405.090	7.46	33.44	43.20	47.62	45.32	68.20	-22.88 peak
5	11650.000	12.20	37.84	38.55	37.48	48.97	74.00	-25.03 peak
6	17475.000	15.65	42.89	40.28	32.94	51.20	68.20	-17.00 peak

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

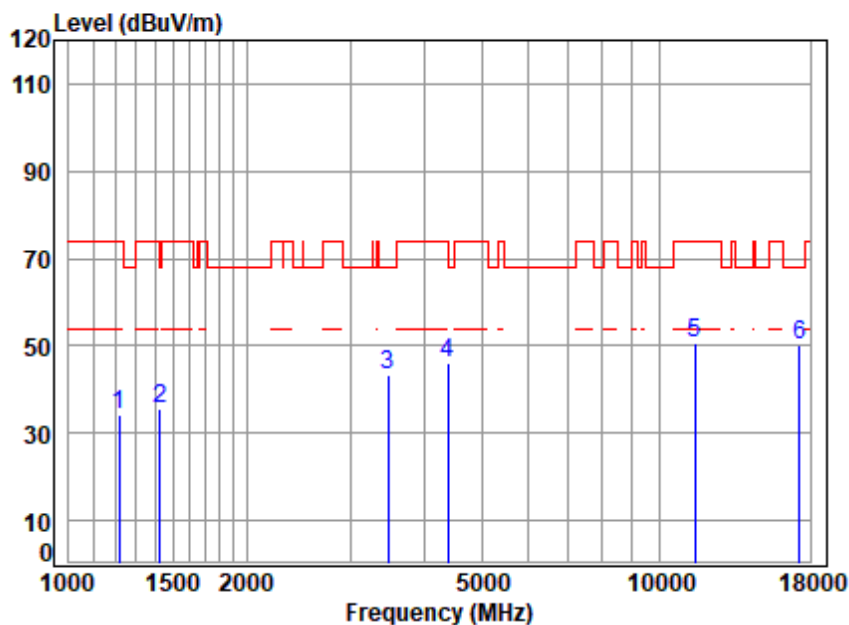


Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5825 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1285.904	4.75	24.96	40.55	45.75	34.91	68.20	-33.29	peak
2	1520.598	5.45	25.89	40.72	46.51	37.13	74.00	-36.87	peak
3	3396.098	6.37	31.54	41.98	47.08	43.01	68.20	-25.19	peak
4	4469.214	7.53	33.55	43.27	48.03	45.84	68.20	-22.36	peak
5	11650.000	12.20	37.84	38.55	39.13	50.62	74.00	-23.38	peak
6	17475.000	15.65	42.89	40.28	32.69	50.95	68.20	-17.25	peak



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

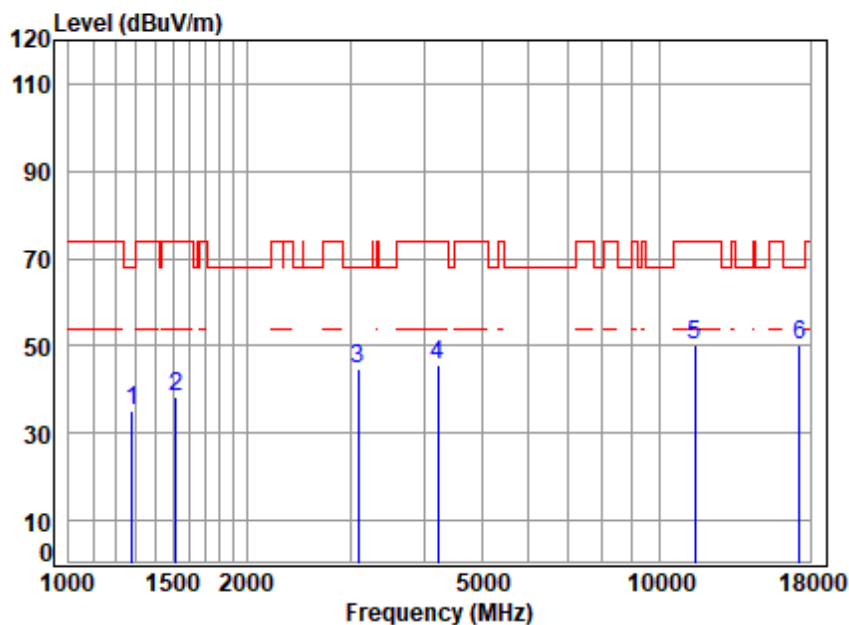


Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5755 TX RSE
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1217.190	4.49	24.67	40.50	45.69	34.35	74.00	-39.65	peak
2	1426.916	5.24	25.53	40.66	45.70	35.81	74.00	-38.19	peak
3	3475.541	6.44	31.66	42.09	47.24	43.25	68.20	-24.95	peak
4	4392.376	7.44	33.42	43.19	48.23	45.90	74.00	-28.10	peak
5	11510.000	12.14	37.90	38.49	38.95	50.50	74.00	-23.50	peak
6	17265.000	16.12	42.76	40.31	31.59	50.16	68.20	-18.04	peak



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



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5755 TX RSE
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	4.73	24.95	40.55	46.22	35.35	68.20	-32.85	peak
2	1516.210	5.46	25.87	40.72	47.54	38.15	74.00	-35.85	peak
3	3087.140	6.07	31.05	41.53	49.16	44.75	68.20	-23.45	peak
4	4218.186	7.24	33.11	43.00	48.09	45.44	74.00	-28.56	peak
5	11510.000	12.14	37.90	38.49	38.67	50.22	74.00	-23.78	peak
6	17265.000	16.12	42.76	40.31	31.73	50.30	68.20	-17.90	peak

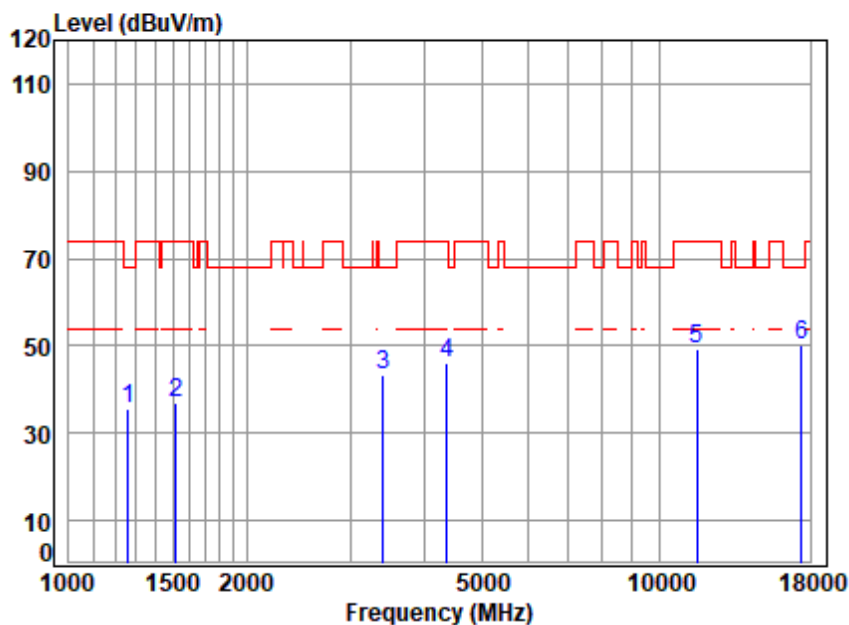


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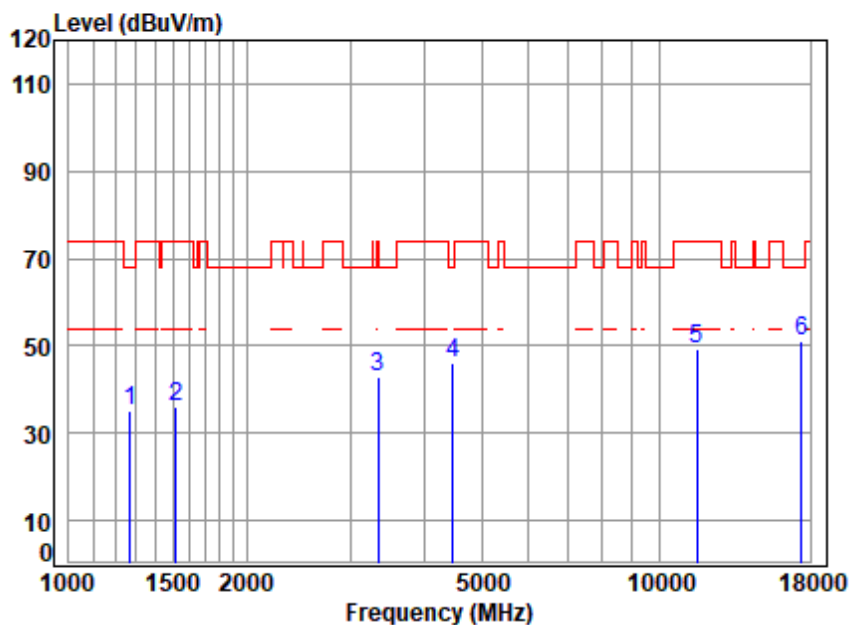
Mode:p; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5795 TX RSE
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	4.65	24.85	40.53	46.81	35.78	68.20	-32.42	peak
2	1516.210	5.46	25.87	40.72	46.49	37.10	74.00	-36.90	peak
3	3405.929	6.38	31.56	42.00	47.40	43.34	68.20	-24.86	peak
4	4367.058	7.41	33.37	43.16	48.50	46.12	74.00	-27.88	peak
5	11590.000	12.17	37.86	38.53	37.92	49.42	74.00	-24.58	peak
6	17385.000	15.85	42.83	40.30	31.84	50.22	68.20	-17.98	peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5795 TX RSE
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1271.123	4.69	24.90	40.54	46.18	35.23	68.20	-32.97	peak
2	1520.598	5.45	25.89	40.72	45.47	36.09	74.00	-37.91	peak
3	3337.710	6.31	31.45	41.90	47.24	43.10	74.00	-30.90	peak
4	4469.214	7.53	33.55	43.27	48.29	46.10	68.20	-22.10	peak
5	11590.000	12.17	37.86	38.53	37.92	49.42	74.00	-24.58	peak
6	17385.000	15.85	42.83	40.30	32.64	51.02	68.20	-17.18	peak

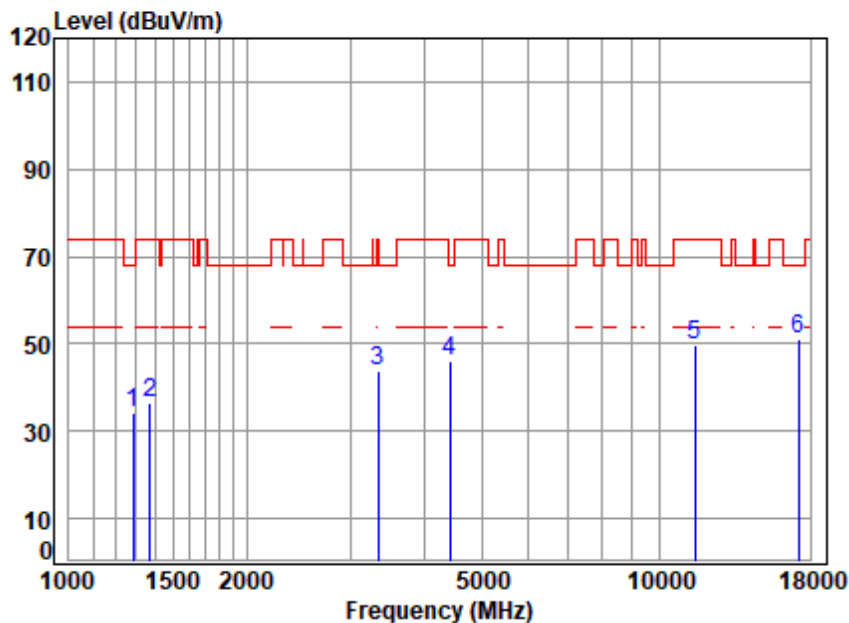


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Mode:p; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:Low

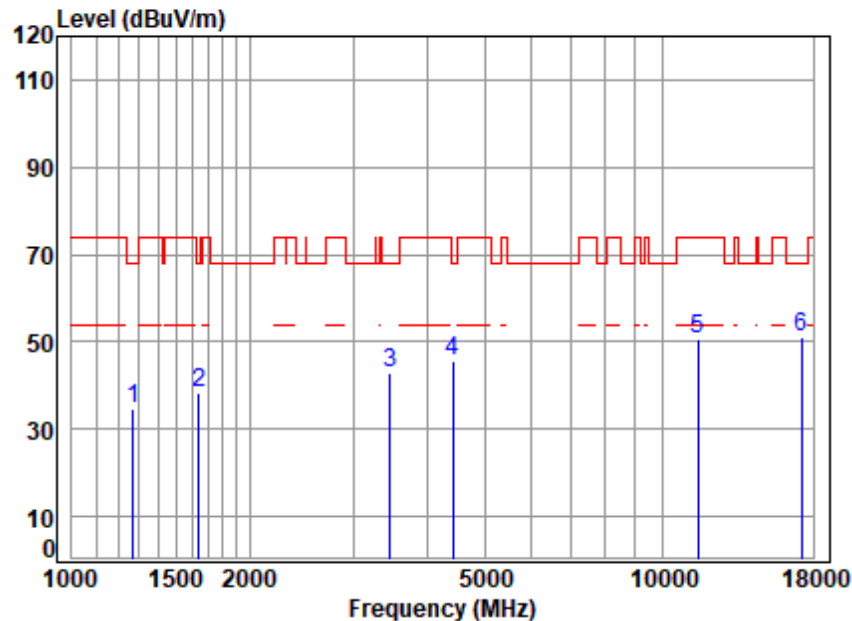


Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5745 TX RSE
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1285.904	4.75	24.96	40.55	45.28	34.44	68.20	-33.76 peak
2	1370.328	5.05	25.31	40.62	46.74	36.48	74.00	-37.52 peak
3	3347.371	6.32	31.47	41.91	47.72	43.60	74.00	-30.40 peak
4	4417.841	7.47	33.46	43.22	48.38	46.09	68.20	-22.11 peak
5	11490.000	12.13	37.90	38.49	38.15	49.69	74.00	-24.31 peak
6	17235.000	16.18	42.74	40.32	32.32	50.92	68.20	-17.28 peak



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

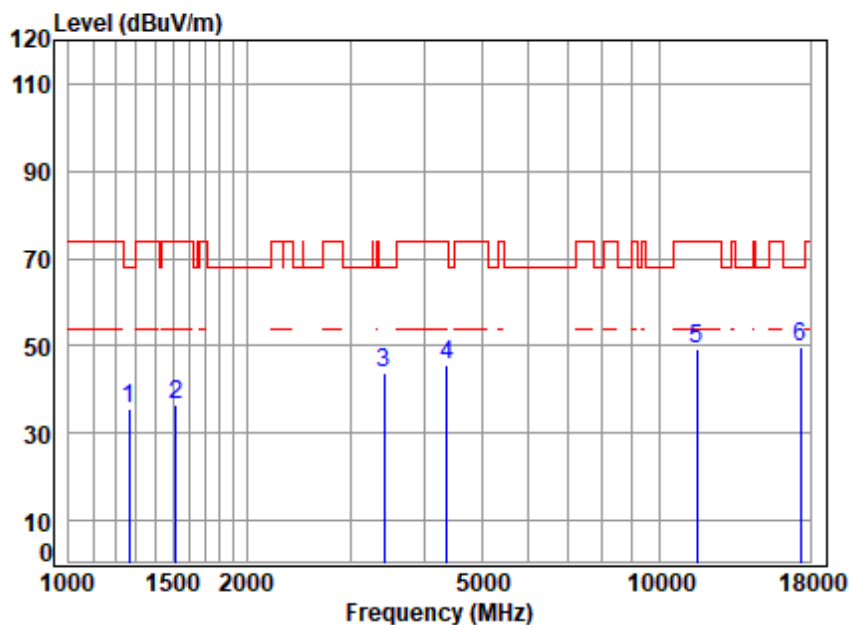


Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5745 TX RSE
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1271.123	4.69	24.90	40.54	45.49	34.54	68.20	-33.66 peak
2	1639.274	5.30	26.42	40.79	47.34	38.27	68.20	-29.93 peak
3	3465.510	6.43	31.65	42.08	46.99	42.99	68.20	-25.21 peak
4	4417.841	7.47	33.46	43.22	47.85	45.56	68.20	-22.64 peak
5	11490.000	12.13	37.90	38.49	39.04	50.58	74.00	-23.42 peak
6	17235.000	16.18	42.74	40.32	32.28	50.88	68.20	-17.32 peak



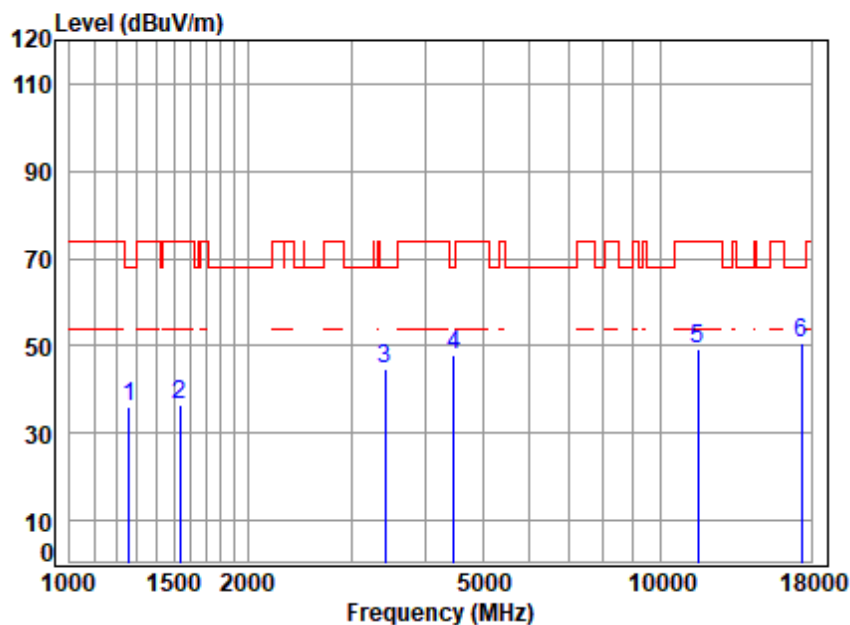
Mode:p; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5785 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1267.454	4.68	24.89	40.54	46.38	35.41	68.20	-32.79	peak
2	1520.598	5.45	25.89	40.72	45.69	36.31	74.00	-37.69	peak
3	3425.675	6.39	31.59	42.02	47.72	43.68	68.20	-24.52	peak
4	4367.058	7.41	33.37	43.16	47.94	45.56	74.00	-28.44	peak
5	11570.000	12.17	37.87	38.52	37.59	49.11	74.00	-24.89	peak
6	17355.000	15.92	42.81	40.30	31.46	49.89	68.20	-18.31	peak

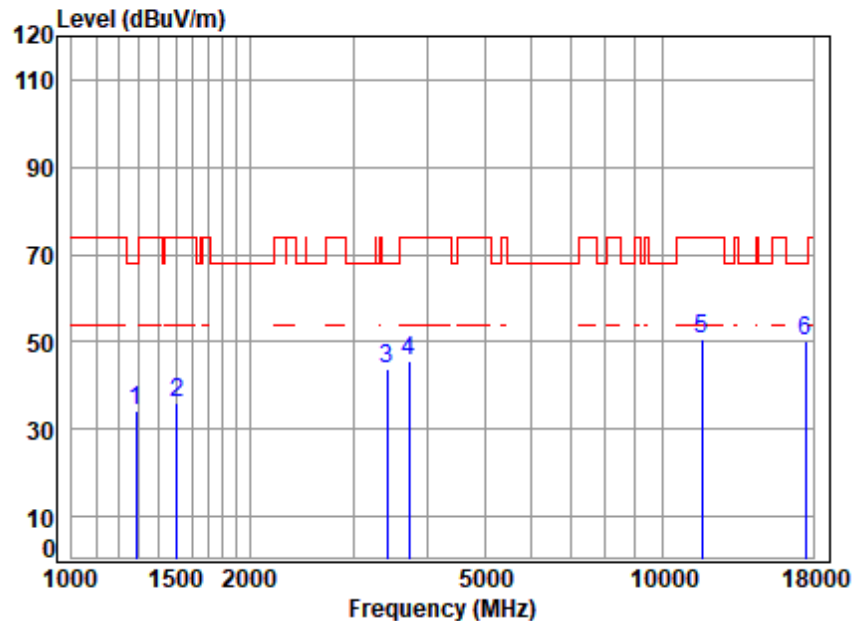
Mode:p; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5785 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	4.65	24.85	40.53	47.23	36.20	68.20	-32.00	peak
2	1533.841	5.44	25.96	40.73	45.84	36.51	74.00	-37.49	peak
3	3415.787	6.38	31.57	42.01	48.62	44.56	68.20	-23.64	peak
4	4469.214	7.53	33.55	43.27	49.89	47.70	68.20	-20.50	peak
5	11570.000	12.17	37.87	38.52	37.58	49.10	74.00	-24.90	peak
6	17355.000	15.92	42.81	40.30	32.30	50.73	68.20	-17.47	peak

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

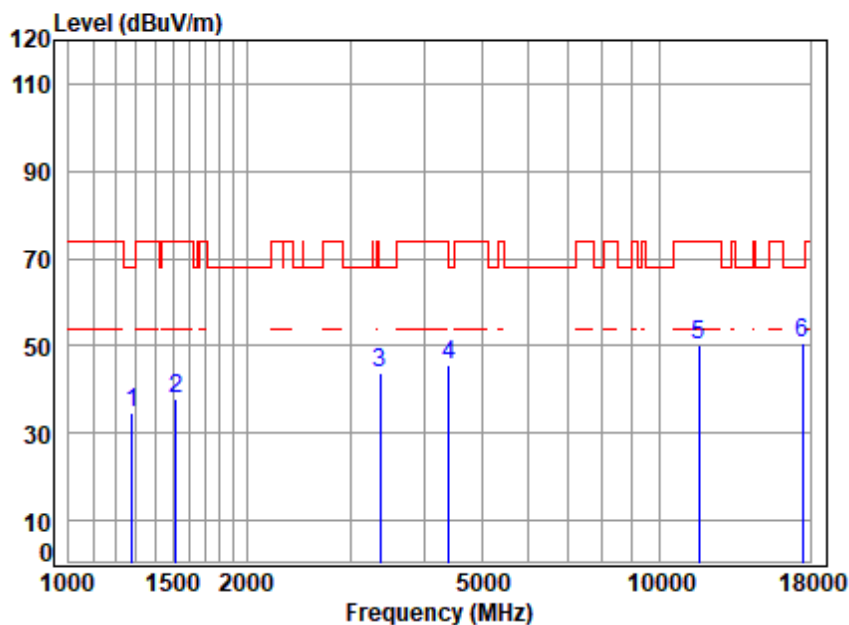


Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5825 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1285.904	4.75	24.96	40.55	45.21	34.37	68.20	-33.83	peak
2	1507.470	5.47	25.83	40.71	45.23	35.82	74.00	-38.18	peak
3	3415.787	6.38	31.57	42.01	47.99	43.93	68.20	-24.27	peak
4	3725.195	6.70	32.17	42.42	49.29	45.74	74.00	-28.26	peak
5	11650.000	12.20	37.84	38.55	39.18	50.67	74.00	-23.33	peak
6	17475.000	15.65	42.89	40.28	32.15	50.41	68.20	-17.79	peak



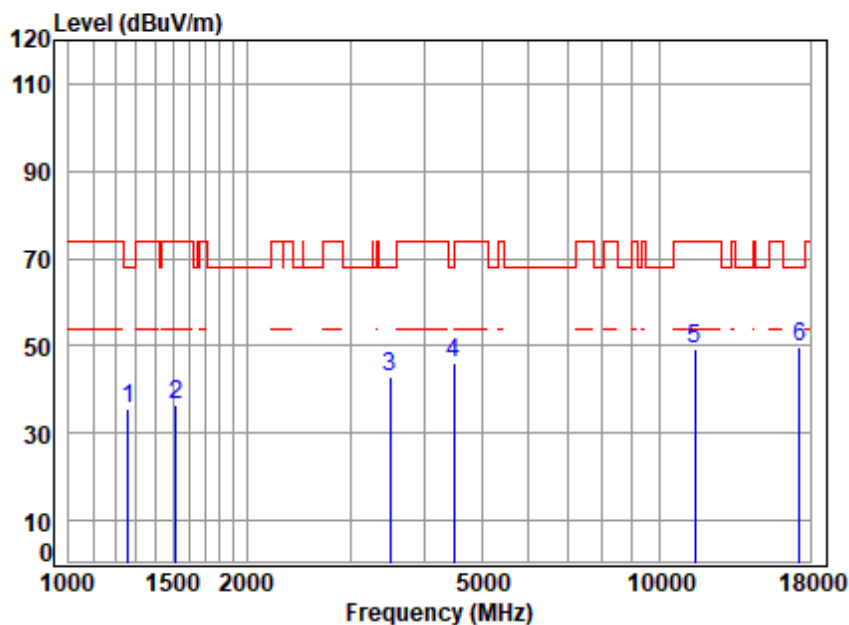
Mode:p; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5825 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	4.73	24.95	40.55	45.40	34.53	68.20	-33.67	peak
2	1520.598	5.45	25.89	40.72	47.12	37.74	74.00	-36.26	peak
3	3366.778	6.34	31.50	41.94	47.83	43.73	68.20	-24.47	peak
4	4405.090	7.46	33.44	43.20	47.73	45.43	68.20	-22.77	peak
5	11650.000	12.20	37.84	38.55	38.62	50.11	74.00	-23.89	peak
6	17475.000	15.65	42.89	40.28	32.48	50.74	68.20	-17.46	peak

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

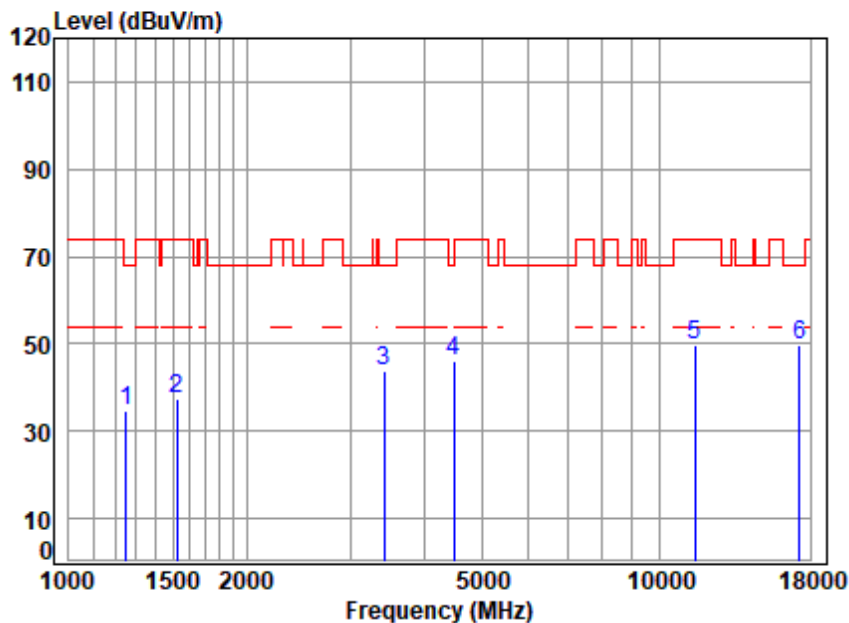


Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5755 TX RSE
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	4.65	24.85	40.53	46.79	35.76	68.20	-32.44	peak
2	1520.598	5.45	25.89	40.72	45.95	36.57	74.00	-37.43	peak
3	3495.691	6.46	31.69	42.12	46.82	42.85	68.20	-25.35	peak
4	4495.125	7.55	33.59	43.30	48.30	46.14	68.20	-22.06	peak
5	11510.000	12.14	37.90	38.49	37.80	49.35	74.00	-24.65	peak
6	17265.000	16.12	42.76	40.31	31.20	49.77	68.20	-18.43	peak



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

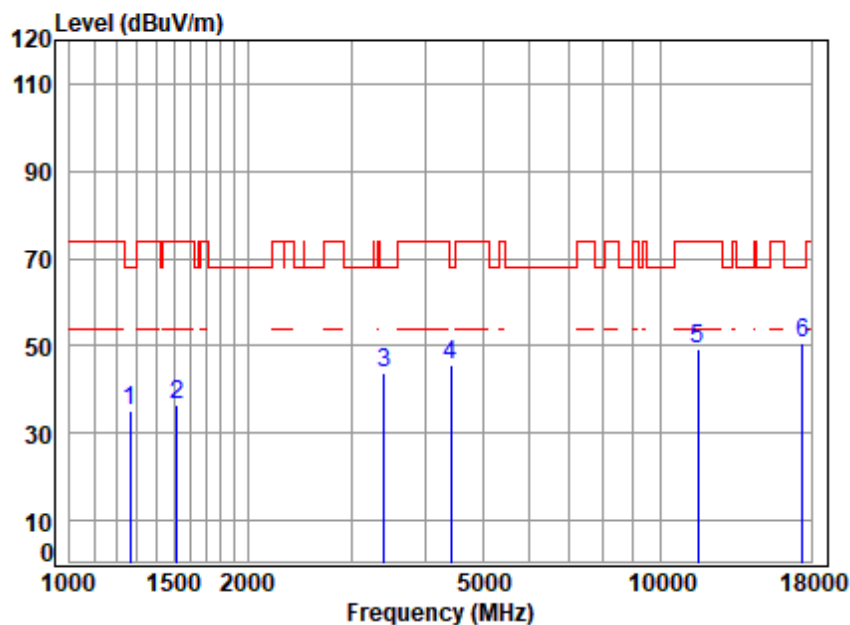


Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5755 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	4.62	24.82	40.53	45.89	34.80	68.20	-33.40	peak
2	1525.000	5.45	25.91	40.72	46.68	37.32	74.00	-36.68	peak
3	3425.675	6.39	31.59	42.02	47.66	43.62	68.20	-24.58	peak
4	4495.125	7.55	33.59	43.30	48.38	46.22	68.20	-21.98	peak
5	11510.000	12.14	37.90	38.49	38.07	49.62	74.00	-24.38	peak
6	17265.000	16.12	42.76	40.31	31.35	49.92	68.20	-18.28	peak



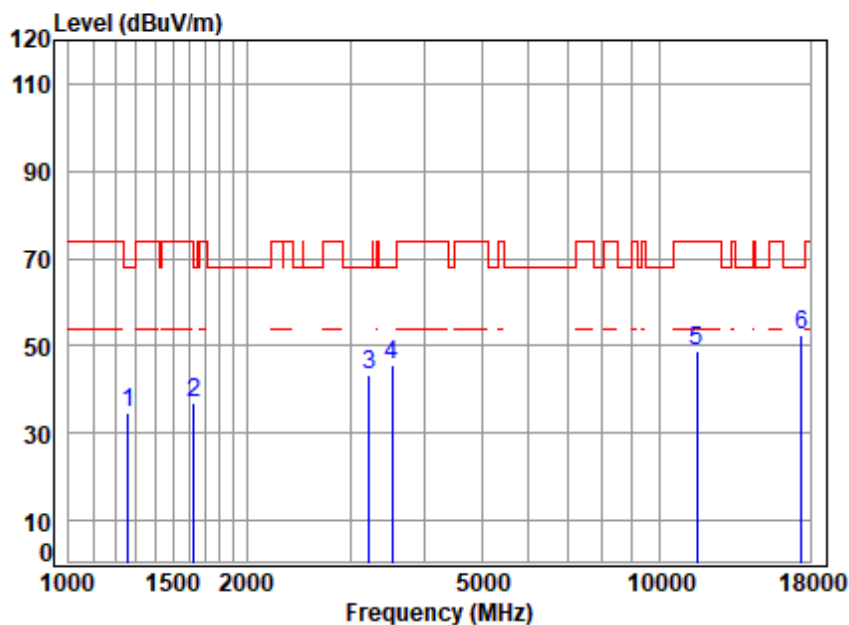
Mode:p; Polarization:Horizontal; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5795 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	4.66	24.87	40.53	45.99	34.99	68.20	-33.21	peak
2	1520.598	5.45	25.89	40.72	46.08	36.70	74.00	-37.30	peak
3	3405.929	6.38	31.56	42.00	47.91	43.85	68.20	-24.35	peak
4	4417.841	7.47	33.46	43.22	48.05	45.76	68.20	-22.44	peak
5	11590.000	12.17	37.86	38.53	37.87	49.37	74.00	-24.63	peak
6	17385.000	15.85	42.83	40.30	32.12	50.50	68.20	-17.70	peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5795 TX RSE
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	4.65	24.85	40.53	45.58	34.55	68.20	-33.65	peak
2	1629.825	5.31	26.38	40.79	46.03	36.93	68.20	-31.27	peak
3	3223.928	6.20	31.27	41.74	47.60	43.33	68.20	-24.87	peak
4	3526.134	6.49	31.76	42.16	49.56	45.65	68.20	-22.55	peak
5	11590.000	12.17	37.86	38.53	37.50	49.00	74.00	-25.00	peak
6	17385.000	15.85	42.83	40.30	33.92	52.30	68.20	-15.90	peak

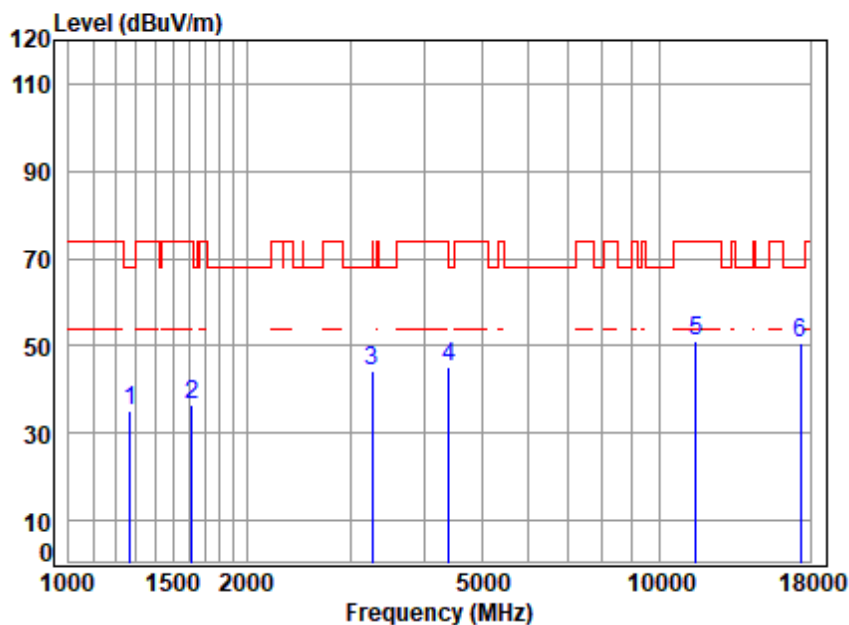


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Mode:p; Polarization:Horizontal; Modulation:802.11ac; bandwidth:80MHz; Channel:middle

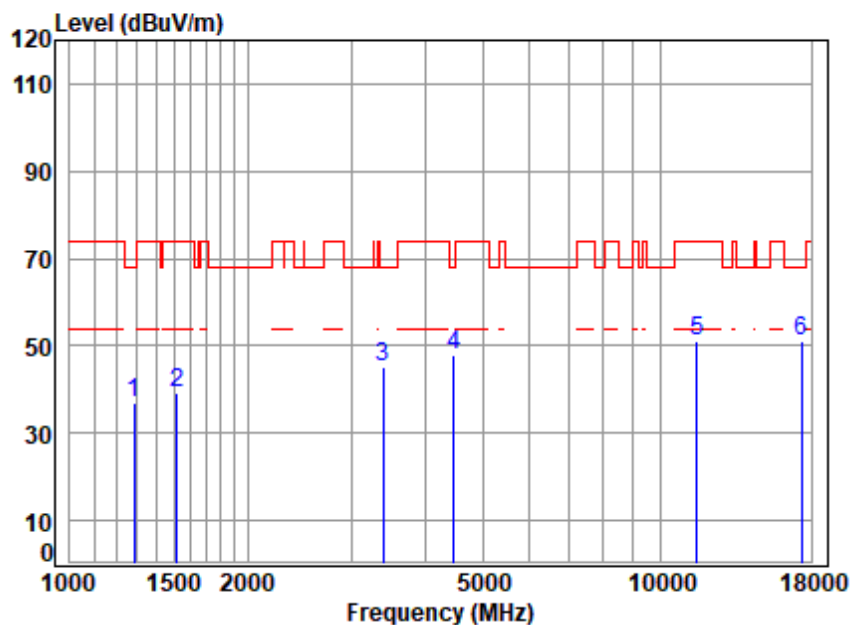


Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5775 TX RSE
Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1271.123	4.69	24.90	40.54	45.97	35.02	68.20	-33.18	peak
2	1615.754	5.33	26.32	40.78	45.50	36.37	74.00	-37.63	peak
3	3261.418	6.24	31.33	41.79	48.27	44.05	74.00	-29.95	peak
4	4405.090	7.46	33.44	43.20	47.62	45.32	68.20	-22.88	peak
5	11550.000	12.16	37.88	38.51	39.40	50.93	74.00	-23.07	peak
6	17325.000	15.98	42.80	40.30	32.31	50.79	68.20	-17.41	peak



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



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5775 TX RSE
Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1285.904	4.75	24.96	40.55	47.75	36.91	68.20	-31.29	peak
2	1520.598	5.45	25.89	40.72	48.51	39.13	74.00	-34.87	peak
3	3396.098	6.37	31.54	41.98	49.08	45.01	68.20	-23.19	peak
4	4469.214	7.53	33.55	43.27	50.03	47.84	68.20	-20.36	peak
5	11550.000	12.16	37.88	38.51	39.50	51.03	74.00	-22.97	peak
6	17325.000	15.98	42.80	40.30	32.82	51.30	68.20	-16.90	peak



7.7 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)
Test Method: KDB 789033 D02 II G
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

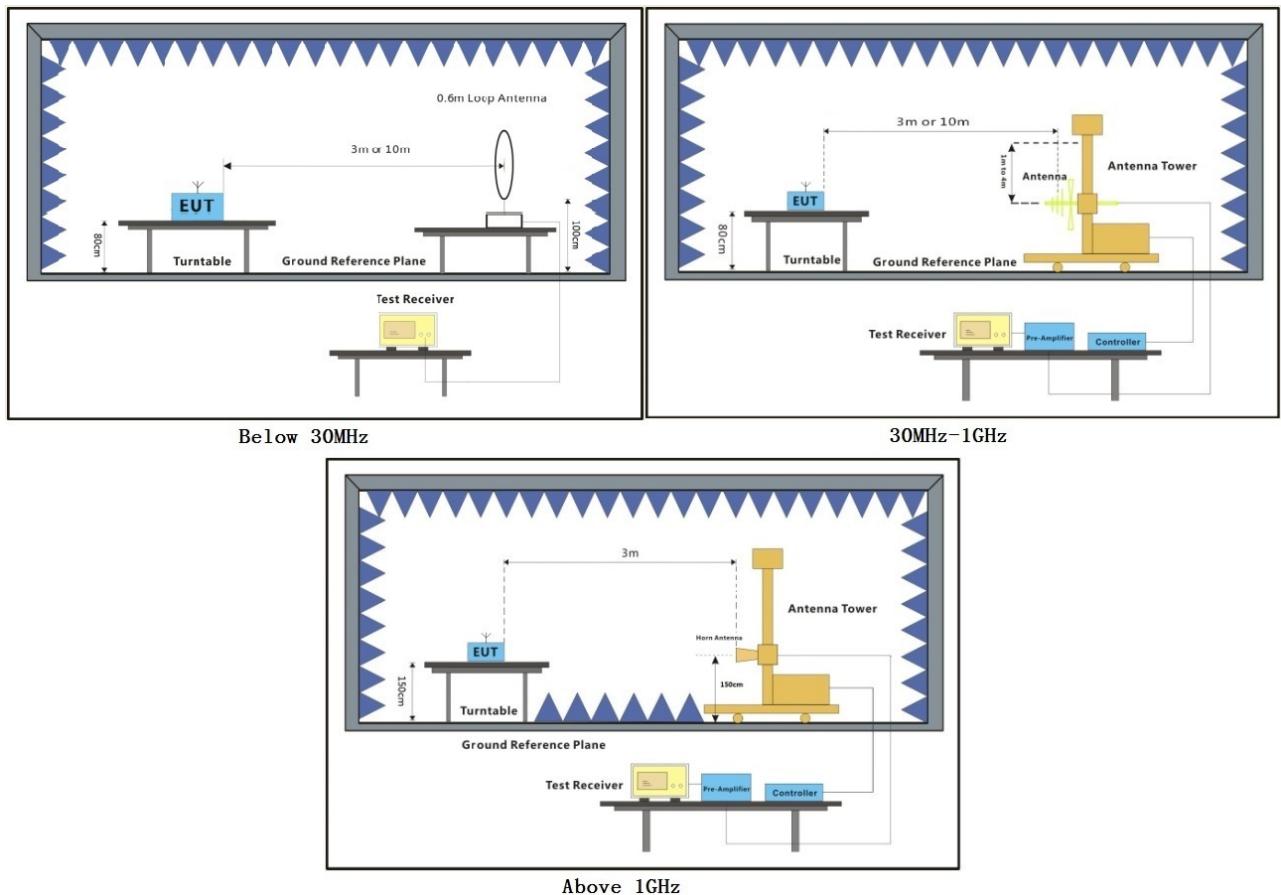
Operating Environment:

Temperature: 23.3 °C Humidity: 52.7 % RH Atmospheric Pressure: 1015 mbar

Test mode: o: TX mode (Band I)_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.

p: TX mode (Band III)_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



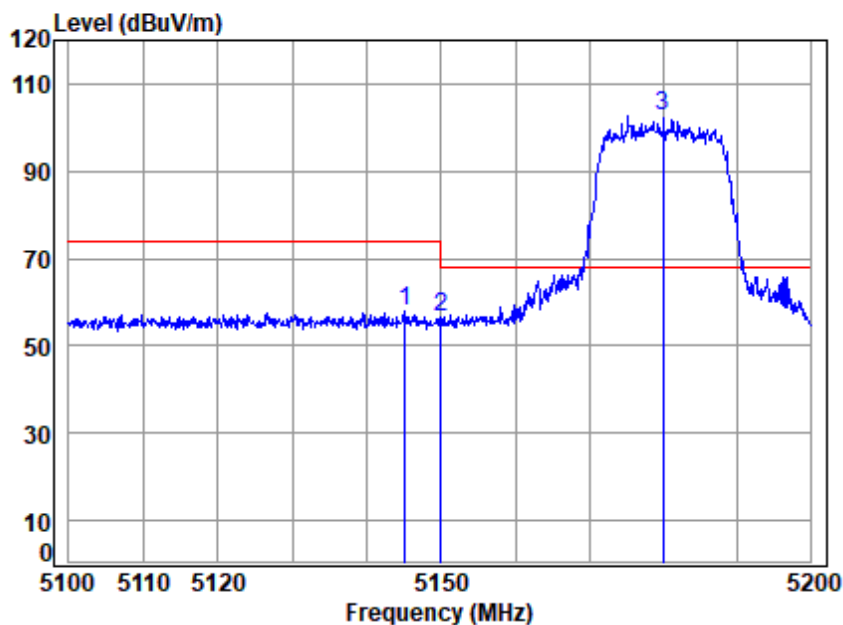
7.7.3 Measurement Procedure and Data

- 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) 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 and antenna 2, found the antenna 1 which is worst case for 802.11a mode, Pretest the EUT at antenna 1, antenna 2 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.

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

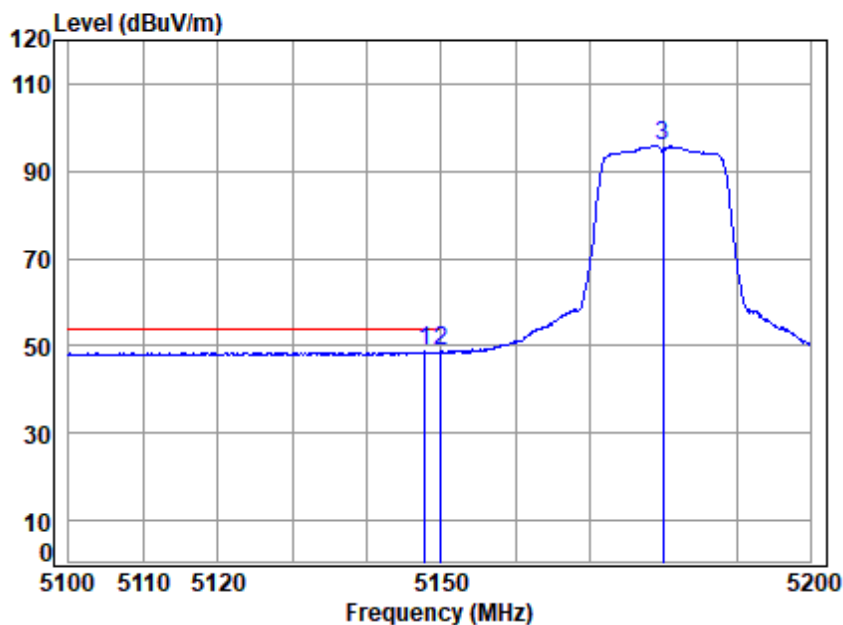


Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5145.159	8.32	34.32	43.65	58.82	57.81	74.00	-16.19 peak
2	5149.980	8.33	34.32	43.64	57.49	56.50	74.00	-17.50 peak
3 *	5180.000	8.37	34.35	43.61	103.44	102.55	68.20	34.35 peak



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

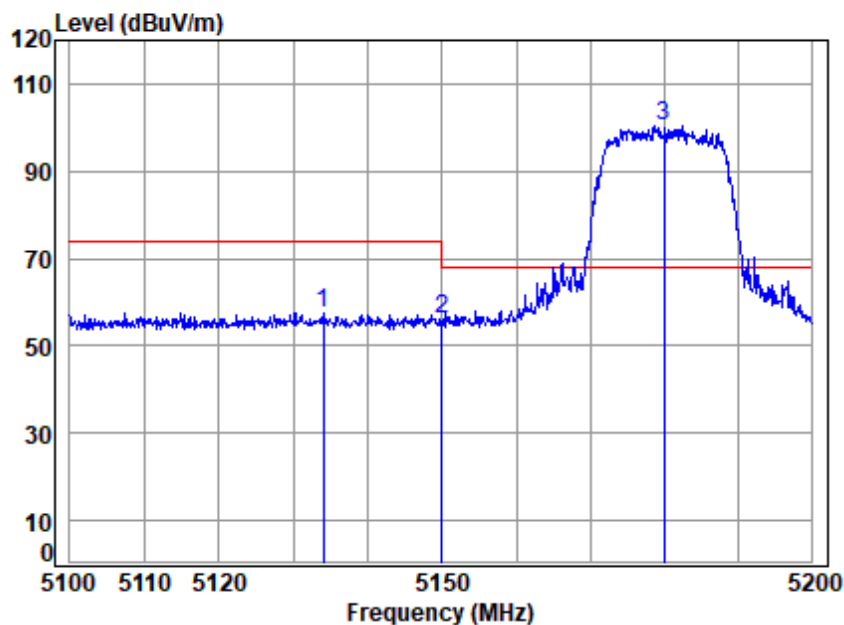


Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5147.758	8.32	34.32	43.65	49.61	48.60	54.00	-5.40 Average
2	5149.980	8.33	34.32	43.64	49.62	48.63	54.00	-5.37 Average
3	5180.000	8.37	34.35	43.61	96.66	95.77	-----	----- Average



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

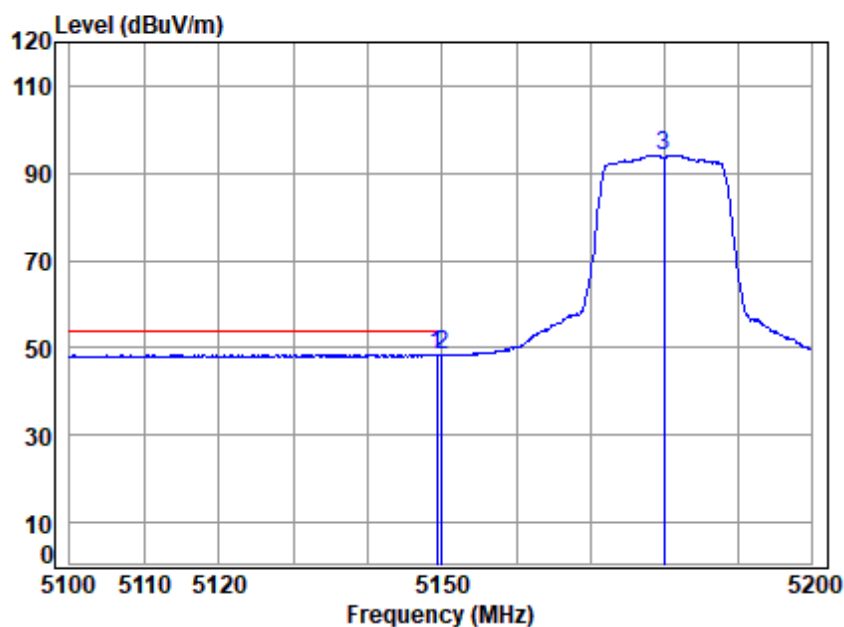


Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5133.982	8.30	34.31	43.66	58.55	57.50	74.00	-16.50 Peak
2	5149.980	8.33	34.32	43.64	57.25	56.26	74.00	-17.74 Peak
3 *	5180.000	8.37	34.35	43.61	101.48	100.59	68.20	32.39 Peak



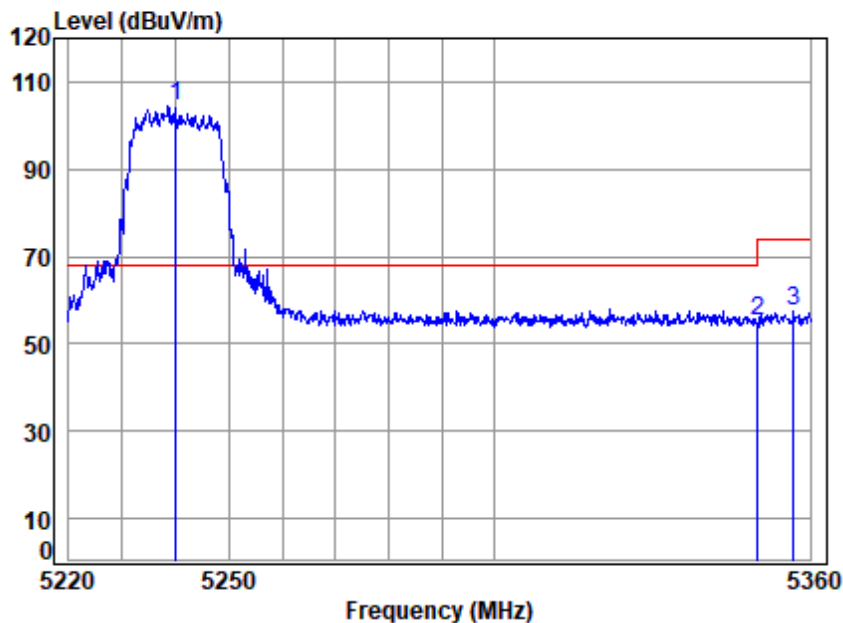
Mode:o; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.257	8.32	34.32	43.64	49.47	48.47	54.00	-5.53 Average
2	5149.980	8.33	34.32	43.64	49.34	48.35	54.00	-5.65 Average
3	5180.000	8.37	34.35	43.61	95.08	94.19	-----	----- Average

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5240 Band edge
: 5G WIFI 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5240.000	8.46	34.40	43.55	105.03	104.34	68.20	36.14	peak
2 5350.020	8.63	34.48	43.44	55.73	55.40	74.00	-18.60	peak
3 5356.880	8.64	34.49	43.43	57.60	57.30	74.00	-16.70	peak

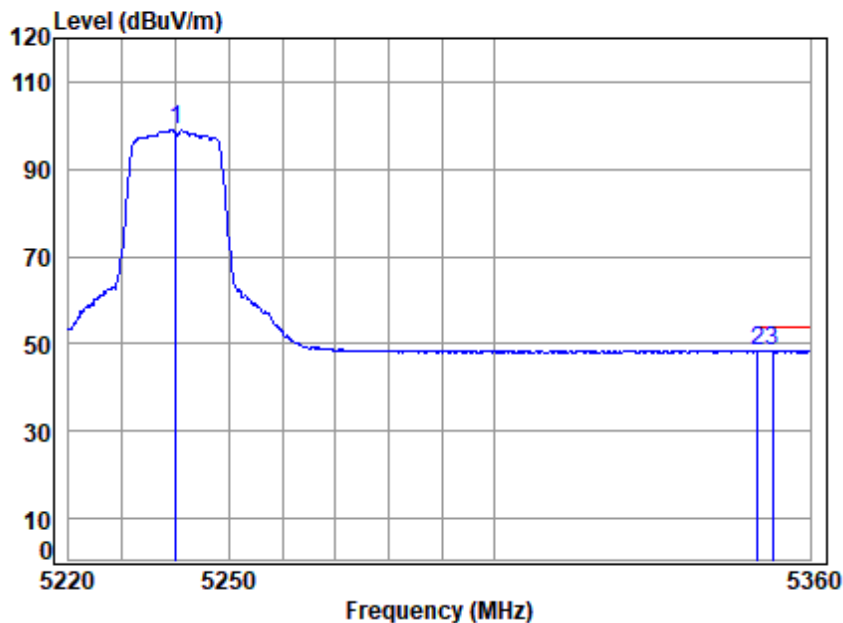


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Mode:o; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5240 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	8.46	34.40	43.55	99.60	98.91	-----	----- Average
2	5350.020	8.63	34.48	43.44	48.86	48.53	54.00	-5.47 Average
3	5352.770	8.63	34.49	43.44	48.74	48.42	54.00	-5.58 Average

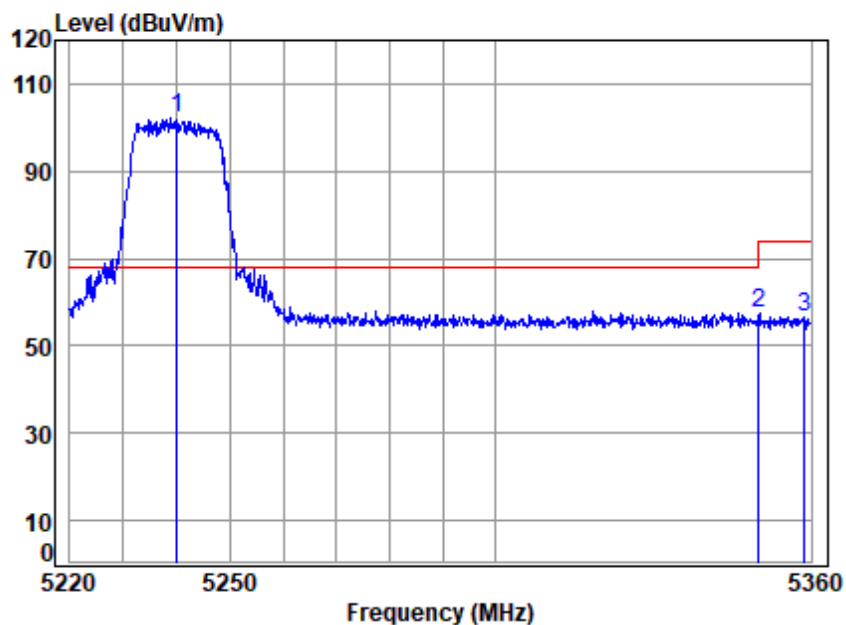


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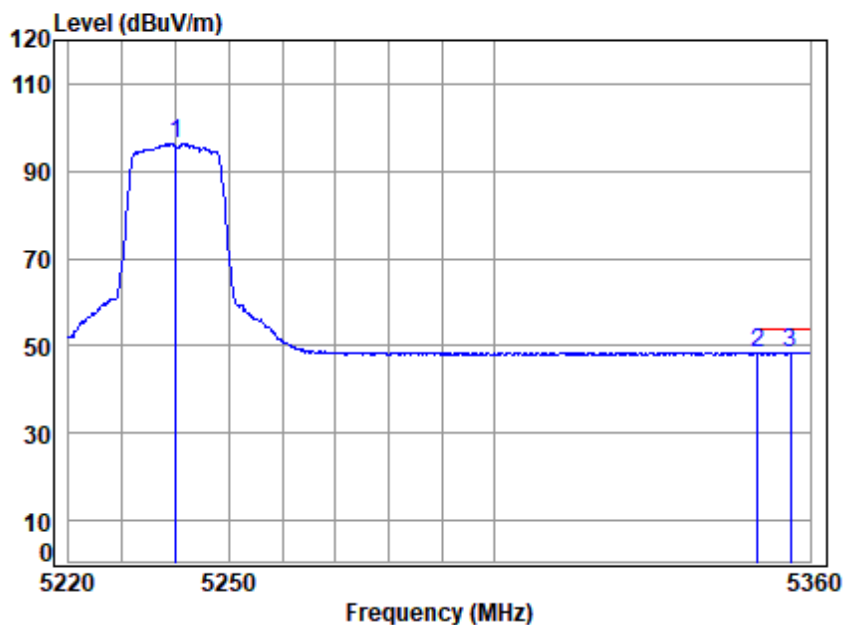
Mode:o; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5240 Band edge
: 5G WIFI 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5240.000	8.46	34.40	43.55	102.74	102.05	68.20	33.85	Peak
2 5350.020	8.63	34.48	43.44	57.61	57.28	74.00	-16.72	Peak
3 5358.724	8.64	34.49	43.43	56.77	56.47	74.00	-17.53	Peak

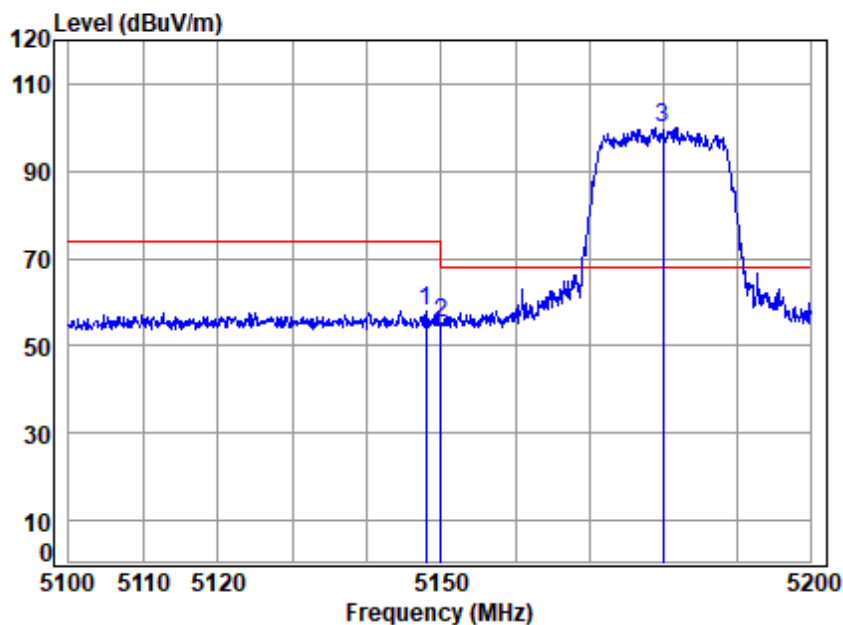
Mode:o; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5240 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	8.46	34.40	43.55	96.97	96.28	-----	----- Average
2	5350.020	8.63	34.48	43.44	48.57	48.24	54.00	-5.76 Average
3	5356.313	8.64	34.49	43.43	48.77	48.47	54.00	-5.53 Average

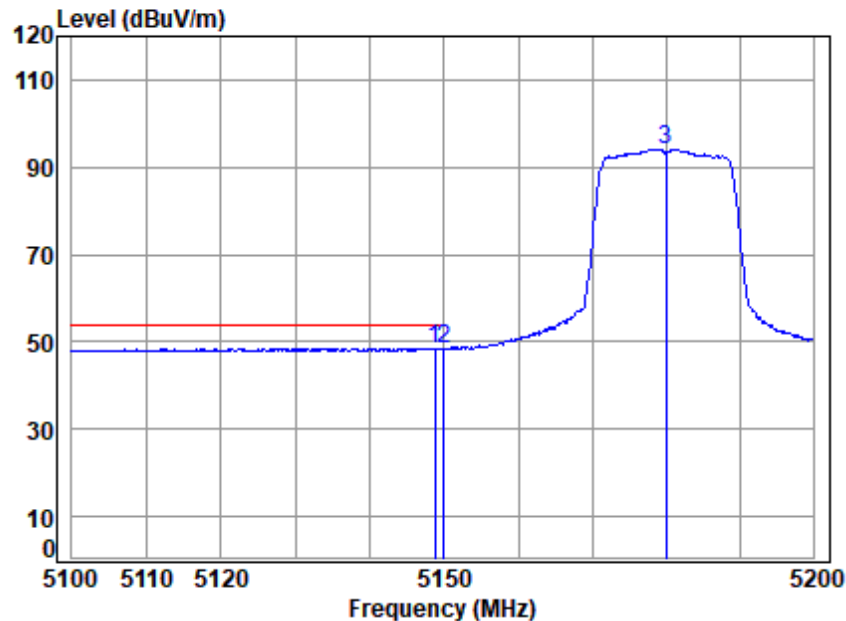
Mode:o; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5180 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5147.958	8.32	34.32	43.64	58.77	57.77	74.00	-16.23 peak
2	5149.980	8.33	34.32	43.64	56.28	55.29	74.00	-18.71 peak
3 *	5180.000	8.37	34.35	43.61	100.96	100.07	68.20	31.87 peak

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5180 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.757	8.32	34.32	43.64	49.53	48.53	54.00	-5.47 Average
2	5149.980	8.33	34.32	43.64	49.52	48.53	54.00	-5.47 Average
3	5180.000	8.37	34.35	43.61	95.03	94.14	-----	----- Average

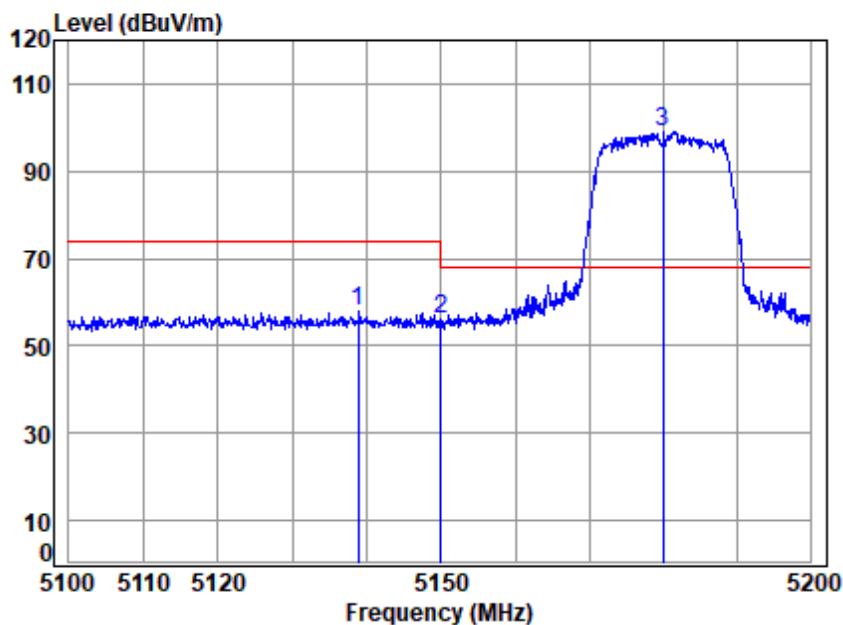


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Mode:o; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low

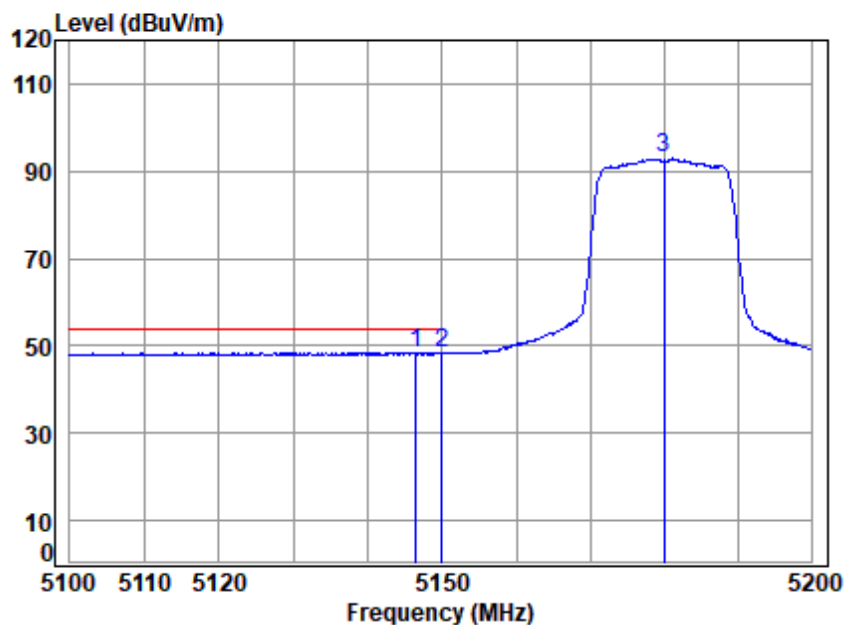


Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5180 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5138.869	8.31	34.31	43.65	58.82	57.79	74.00	-16.21 Peak
2	5149.980	8.33	34.32	43.64	56.93	55.94	74.00	-18.06 Peak
3 *	5180.000	8.37	34.35	43.61	99.87	98.98	68.20	30.78 Peak



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

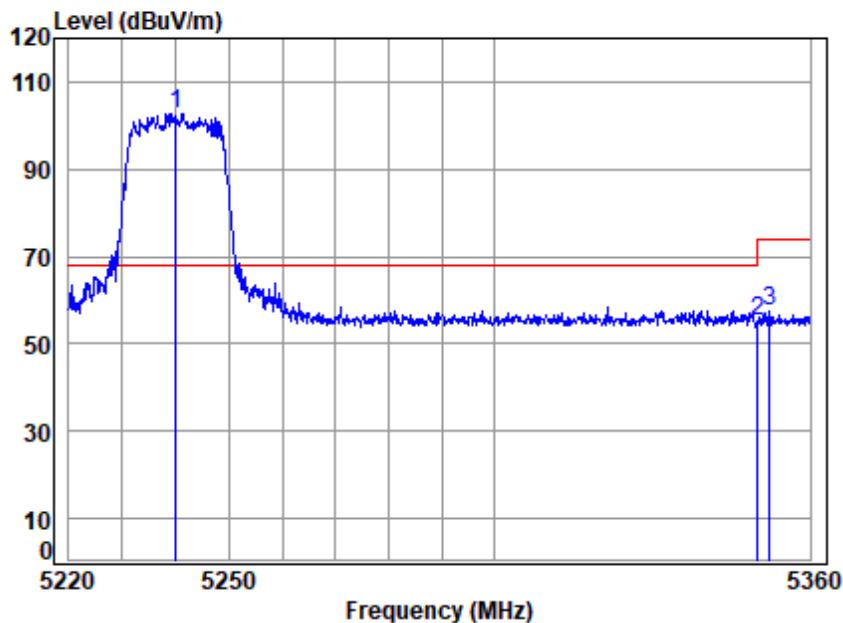


Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5180 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5146.458	8.32	34.32	43.65	49.46	48.45	54.00	-5.55 Average
2	5149.980	8.33	34.32	43.64	49.31	48.32	54.00	-5.68 Average
3	5180.000	8.37	34.35	43.61	93.79	92.90	-----	----- Average



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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5240 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 *	5240.000	8.46	34.40	43.55	103.44	102.75	68.20	34.55 peak
2	5350.020	8.63	34.48	43.44	55.64	55.31	74.00	-18.69 peak
3	5352.203	8.63	34.49	43.44	57.86	57.54	74.00	-16.46 peak

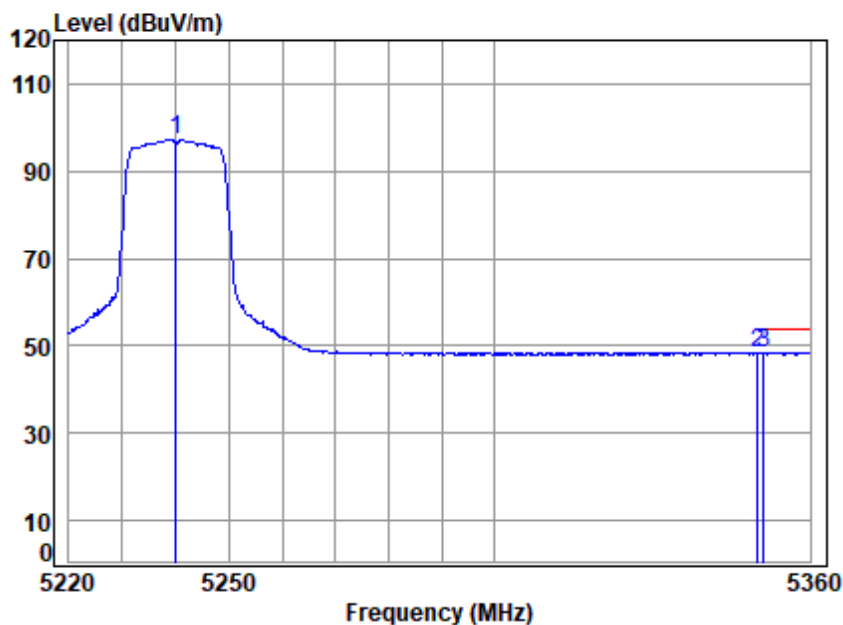


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Mode:o; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5240 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	8.46	34.40	43.55	98.09	97.40	-----	Average
2	5350.020	8.63	34.48	43.44	48.59	48.26	54.00	-5.74 Average
3	5351.212	8.63	34.48	43.44	48.79	48.46	54.00	-5.54 Average

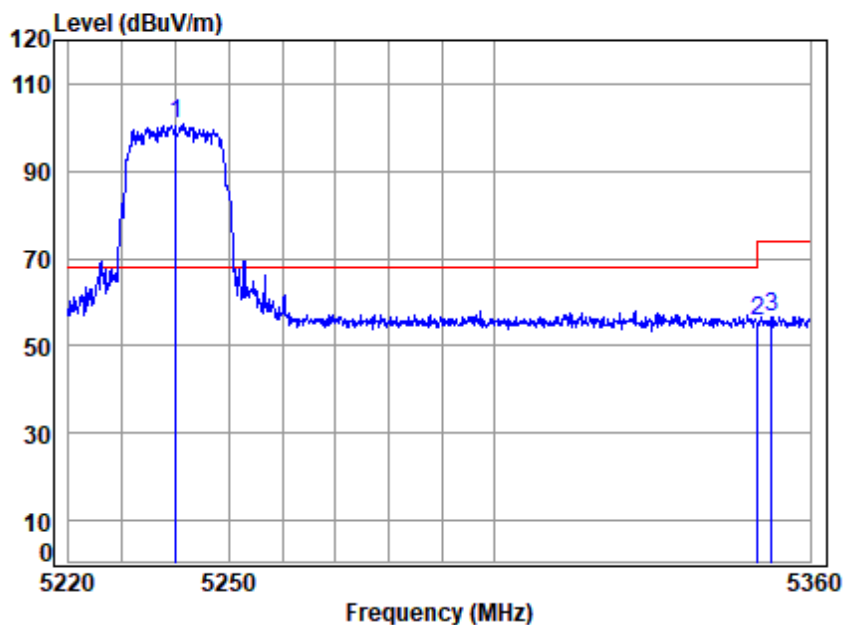


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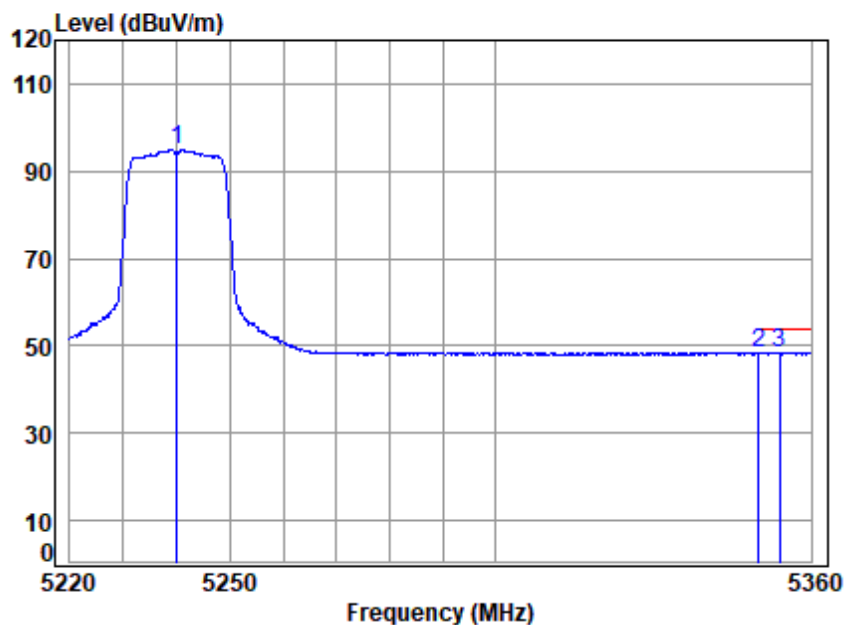
Mode:o; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5240 Band edge
: 5G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5240.000	8.46	34.40	43.55	101.49	100.80	68.20	32.60	Peak
2 5350.020	8.63	34.48	43.44	56.12	55.79	74.00	-18.21	Peak
3 5352.628	8.63	34.49	43.44	57.12	56.80	74.00	-17.20	Peak

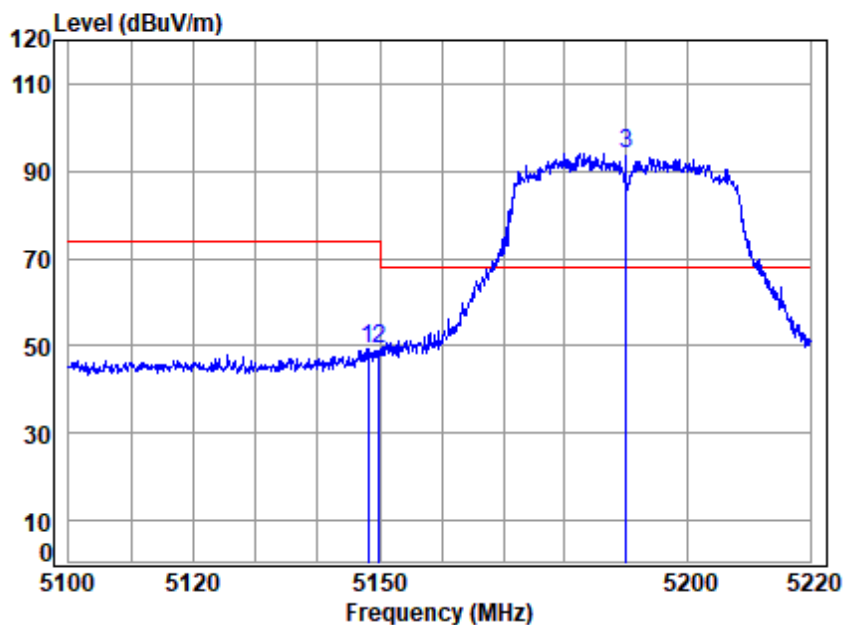
Mode:o; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5240 Band edge
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	8.46	34.40	43.55	95.61	94.92	-----	-----	Average
2	5350.020	8.63	34.48	43.44	48.79	48.46	54.00	-5.54	Average
3	5354.045	8.64	34.49	43.44	48.84	48.53	54.00	-5.47	Average

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

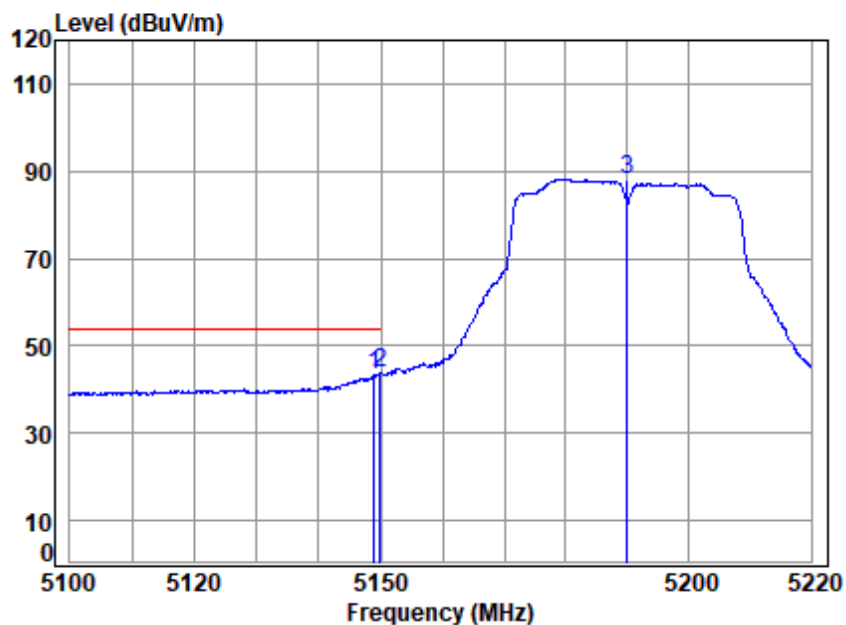


Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5190 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.144	8.32	34.32	43.64	50.46	49.46	74.00	-24.54 peak
2	5149.980	8.33	34.32	43.64	50.22	49.23	74.00	-24.77 peak
3 *	5190.000	8.39	34.36	43.60	94.88	94.03	68.20	25.83 peak



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

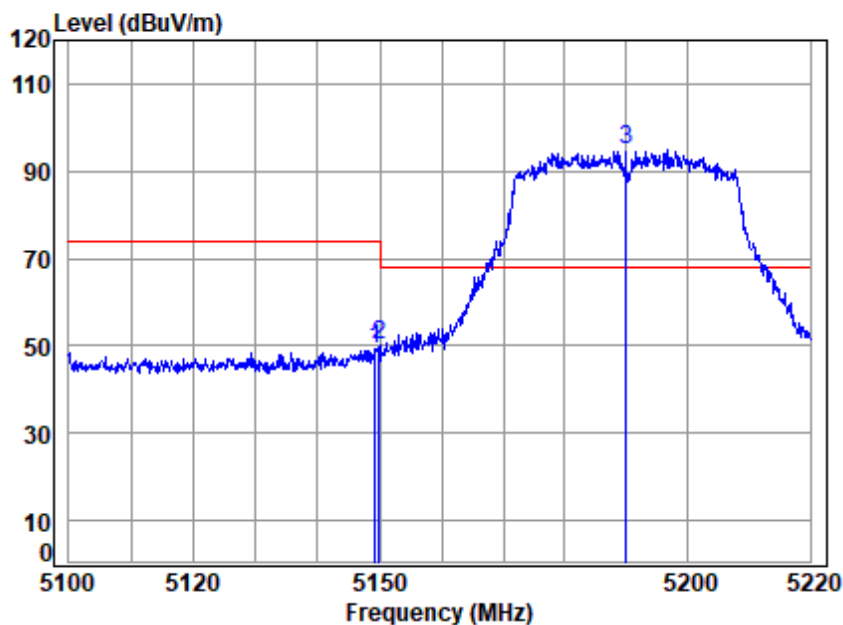


Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5190 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.982	8.32	34.32	43.64	44.18	43.18	54.00	-10.82 Average
2	5149.980	8.33	34.32	43.64	44.78	43.79	54.00	-10.21 Average
3	5190.000	8.39	34.36	43.60	89.07	88.22	-----	----- Average



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

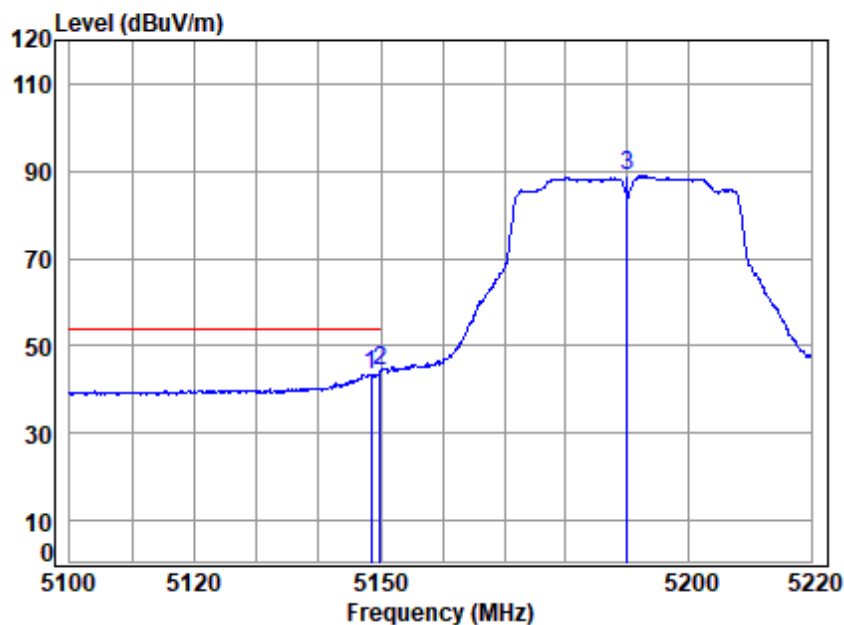


Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5190 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.222	8.32	34.32	43.64	50.32	49.32	74.00	-24.68 Peak
2	5149.980	8.33	34.32	43.64	51.23	50.24	74.00	-23.76 Peak
3 *	5190.000	8.39	34.36	43.60	95.96	95.11	68.20	26.91 Peak



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

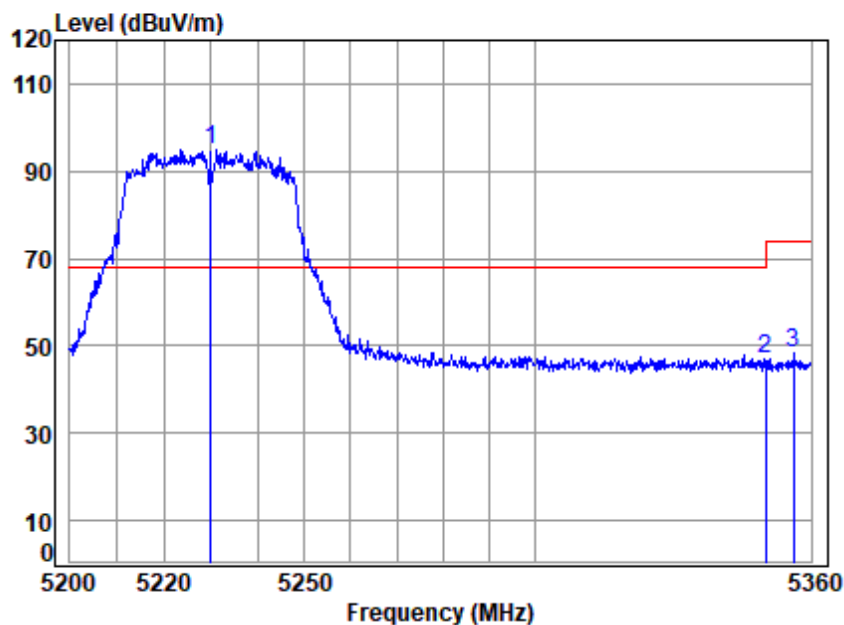


Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5190 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.384	8.32	34.32	43.64	44.45	43.45	54.00	-10.55 Average
2	5149.980	8.33	34.32	43.64	45.46	44.47	54.00	-9.53 Average
3	5190.000	8.39	34.36	43.60	89.67	88.82	-----	----- Average



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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5230 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1 *	5230.000	8.45	34.39	43.56	95.61	94.89	68.20	26.69 peak
2	5350.020	8.63	34.48	43.44	47.19	46.86	74.00	-27.14 peak
3	5356.265	8.64	34.49	43.43	48.82	48.52	74.00	-25.48 peak

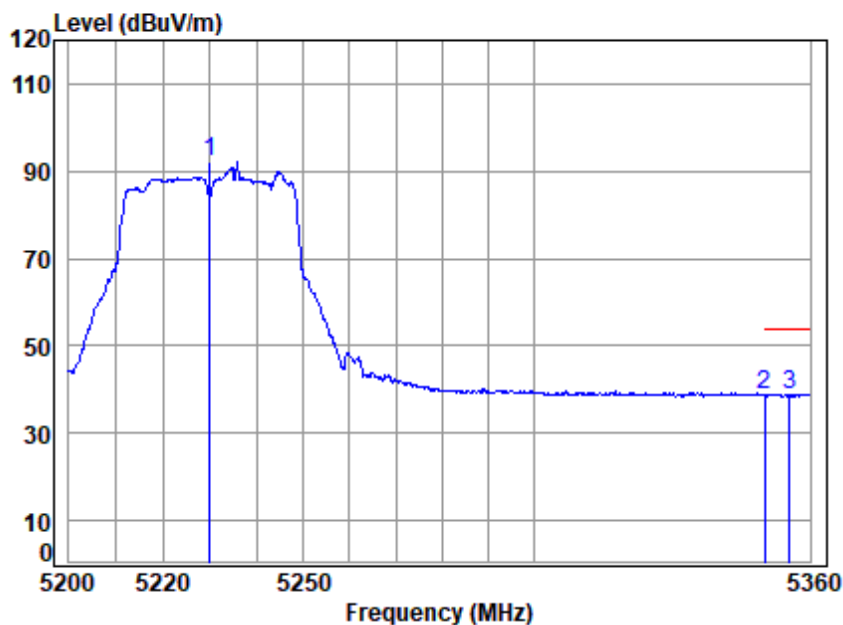


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Mode:o; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5230 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5230.000	8.45	34.39	43.56	92.69	91.97	-----	----- Average
2	5350.020	8.63	34.48	43.44	39.13	38.80	54.00	-15.20 Average
3	5355.454	8.64	34.49	43.43	39.27	38.97	54.00	-15.03 Average

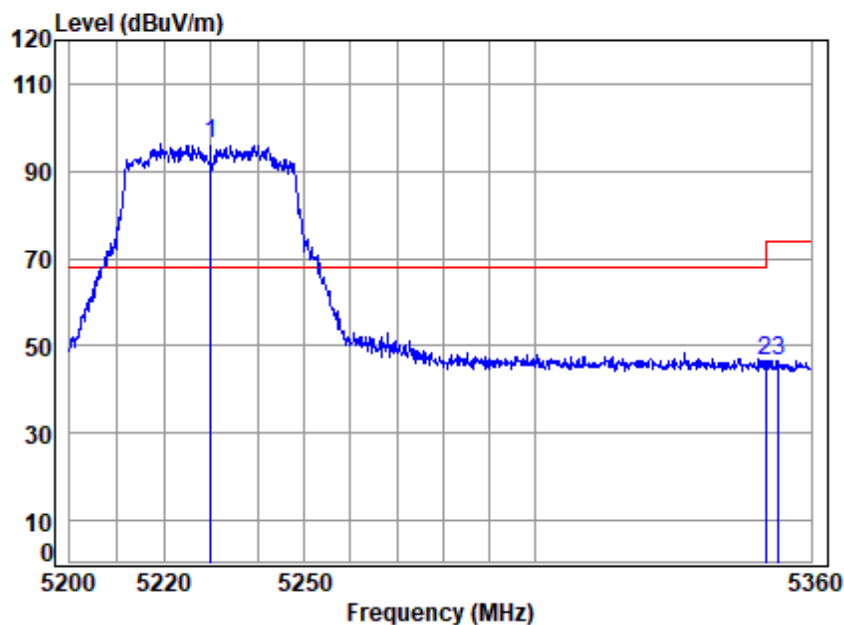


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Mode:o; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5230 Band edge
: 5G WIFI 11N40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5230.000	8.45	34.39	43.56	96.81	96.09	68.20	27.89	Peak
2 5350.020	8.63	34.48	43.44	46.91	46.58	74.00	-27.42	Peak
3 5352.857	8.63	34.49	43.44	47.08	46.76	74.00	-27.24	Peak

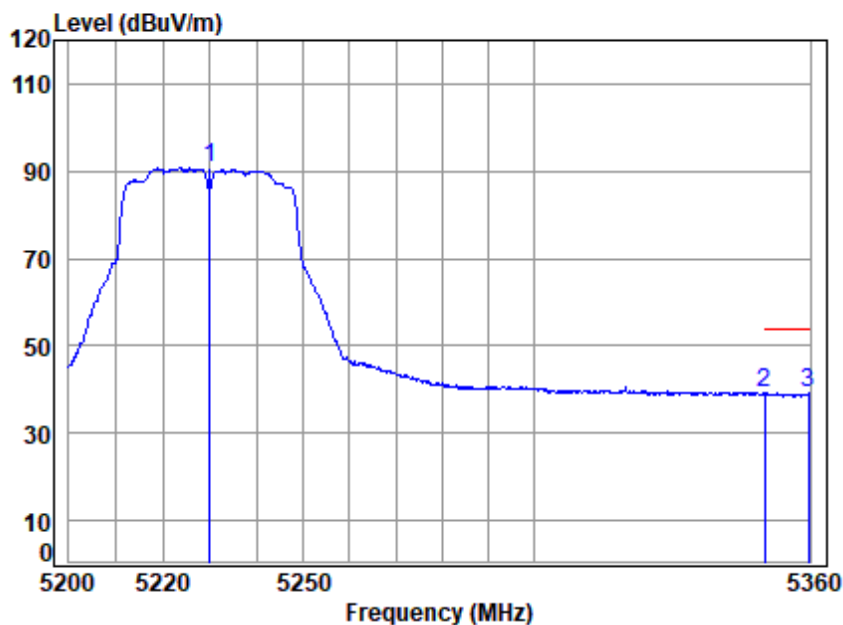


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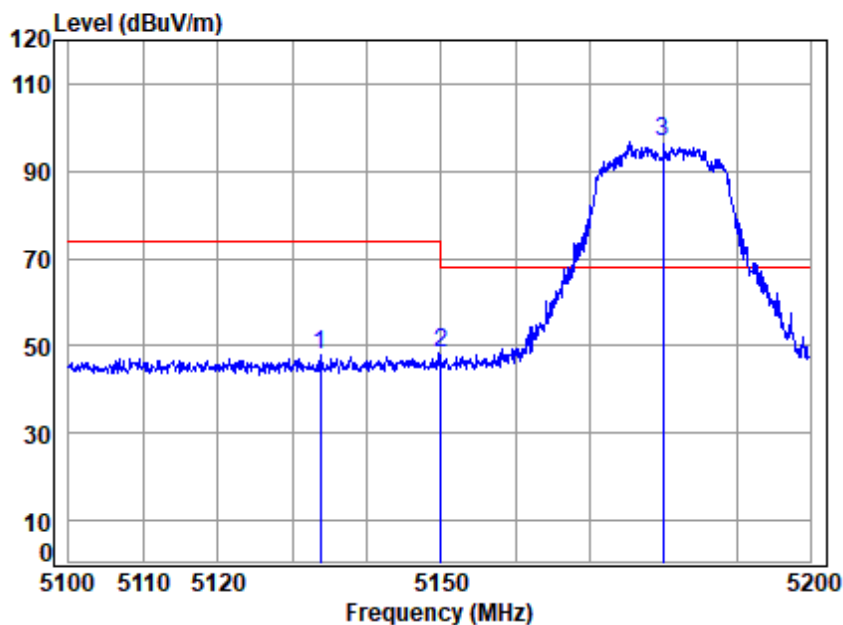
Mode:o; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5230 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5230.000	8.45	34.39	43.56	91.39	90.67	-----	----- Average
2	5350.020	8.63	34.48	43.44	39.40	39.07	54.00	-14.93 Average
3	5359.675	8.64	34.49	43.43	39.46	39.16	54.00	-14.84 Average

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

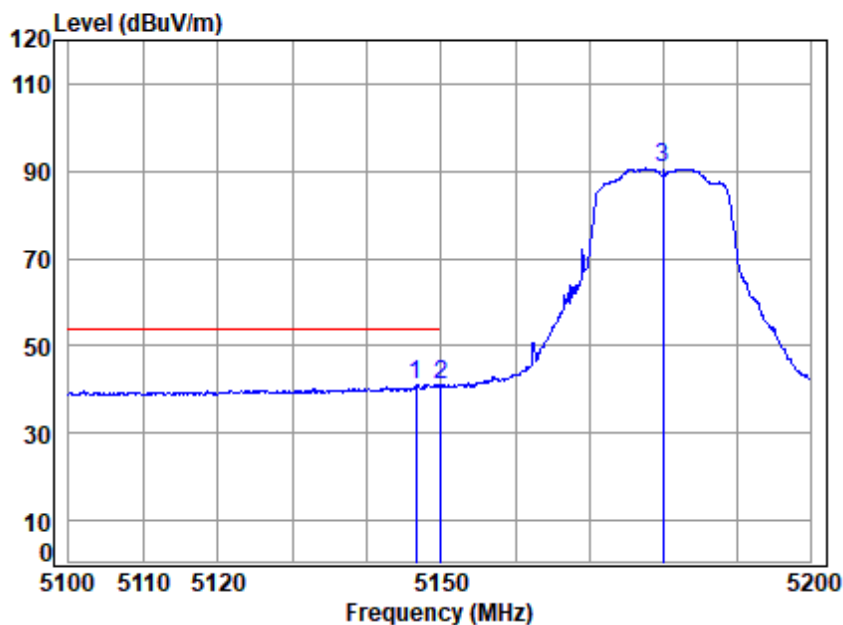


Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5180 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5133.683	8.30	34.31	43.66	49.00	47.95	74.00	-26.05 peak
2	5149.980	8.33	34.32	43.64	49.18	48.19	74.00	-25.81 peak
3 *	5180.000	8.37	34.35	43.61	97.50	96.61	68.20	28.41 peak



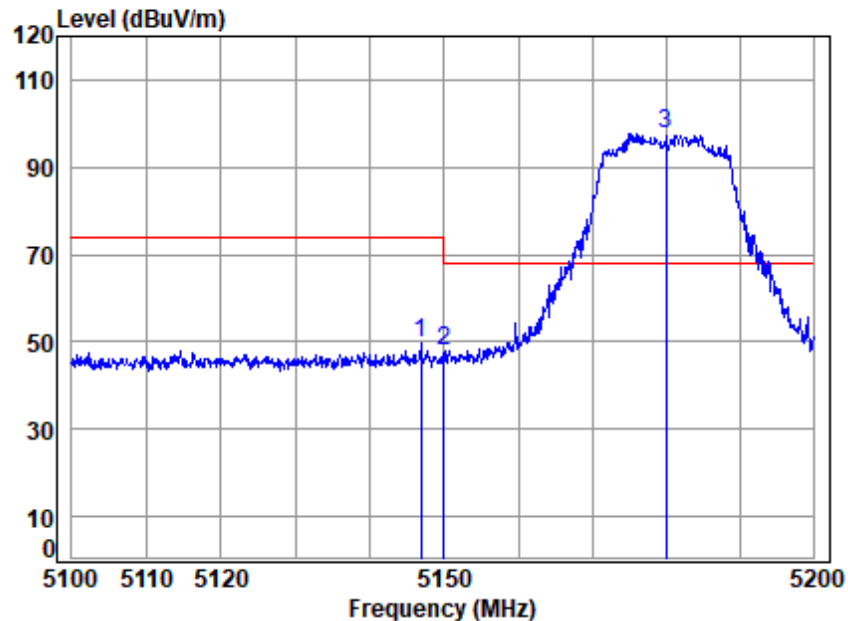
Mode:o; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5180 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5146.658	8.32	34.32	43.65	42.29	41.28	54.00	-12.72 Average
2	5149.980	8.33	34.32	43.64	42.17	41.18	54.00	-12.82 Average
3	5180.000	8.37	34.35	43.61	91.48	90.59	-----	----- Average

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

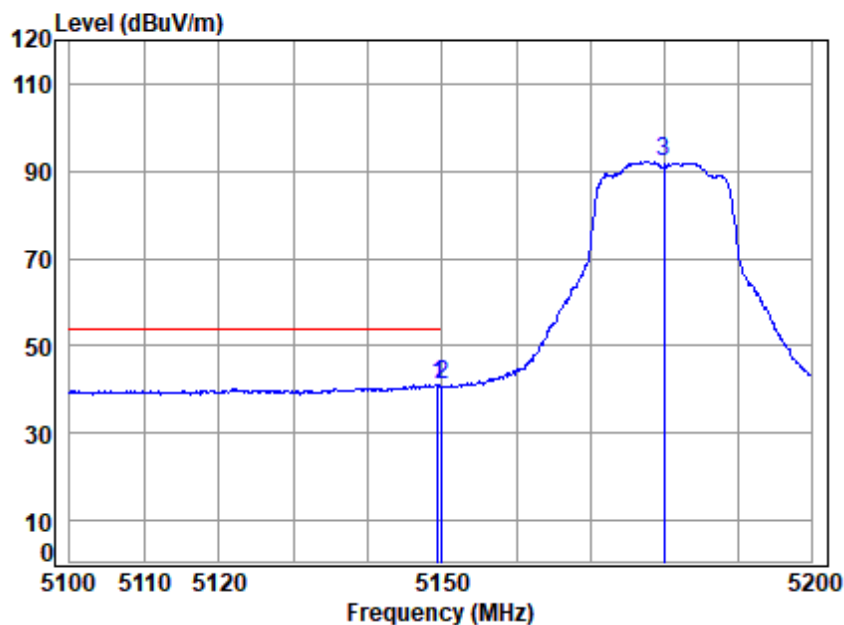


Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5180 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5146.858	8.32	34.32	43.65	50.62	49.61	74.00	-24.39 Peak
2	5149.980	8.33	34.32	43.64	49.08	48.09	74.00	-25.91 Peak
3 *	5180.000	8.37	34.35	43.61	98.57	97.68	68.20	29.48 Peak



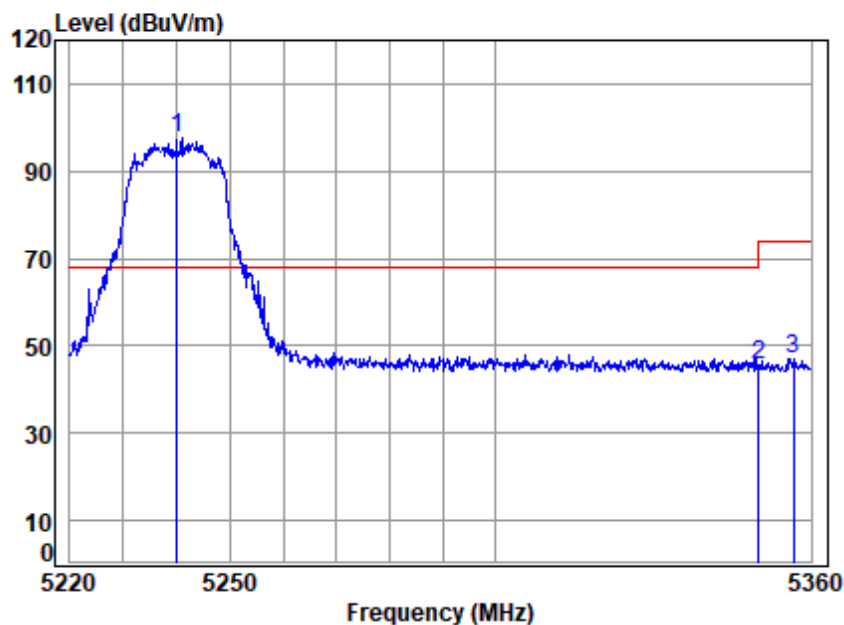
Mode:o; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5180 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.357	8.32	34.32	43.64	42.26	41.26	54.00	-12.74 Average
2	5149.980	8.33	34.32	43.64	41.95	40.96	54.00	-13.04 Average
3	5180.000	8.37	34.35	43.61	93.28	92.39	-----	----- Average

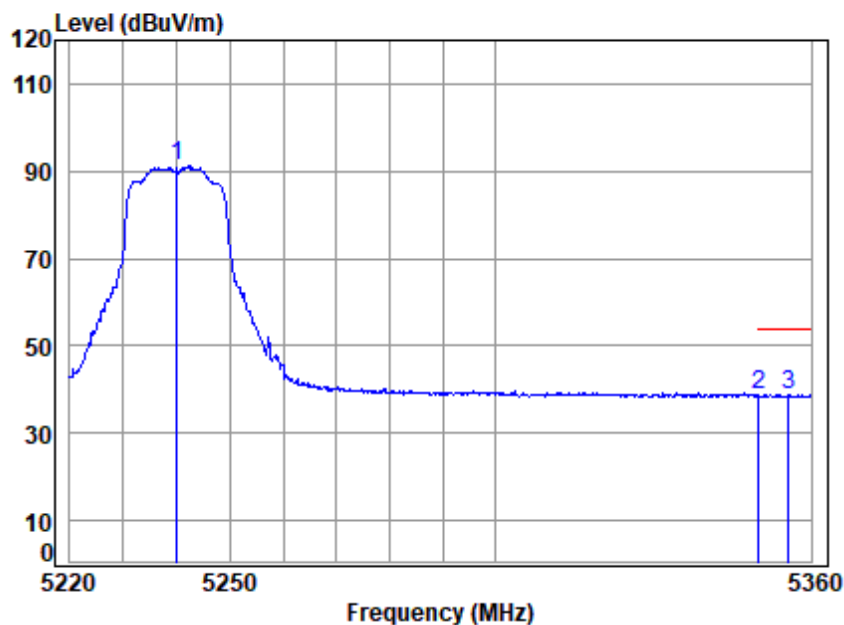
Mode:o; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5240 Band edge
: 5G WIFI 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5240.000	8.46	34.40	43.55	98.50	97.81	68.20	29.61	peak
2 5350.020	8.63	34.48	43.44	45.88	45.55	74.00	-28.45	peak
3 5356.596	8.64	34.49	43.43	47.45	47.15	74.00	-26.85	peak

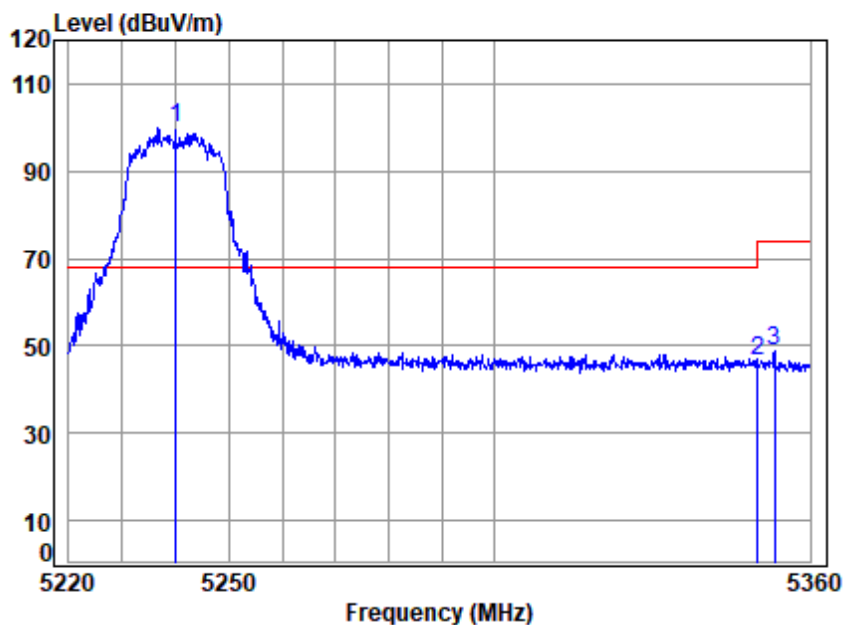
Mode:o; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5240 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	8.46	34.40	43.55	91.82	91.13	-----	----- Average
2	5350.020	8.63	34.48	43.44	39.06	38.73	54.00	-15.27 Average
3	5355.604	8.64	34.49	43.43	39.22	38.92	54.00	-15.08 Average

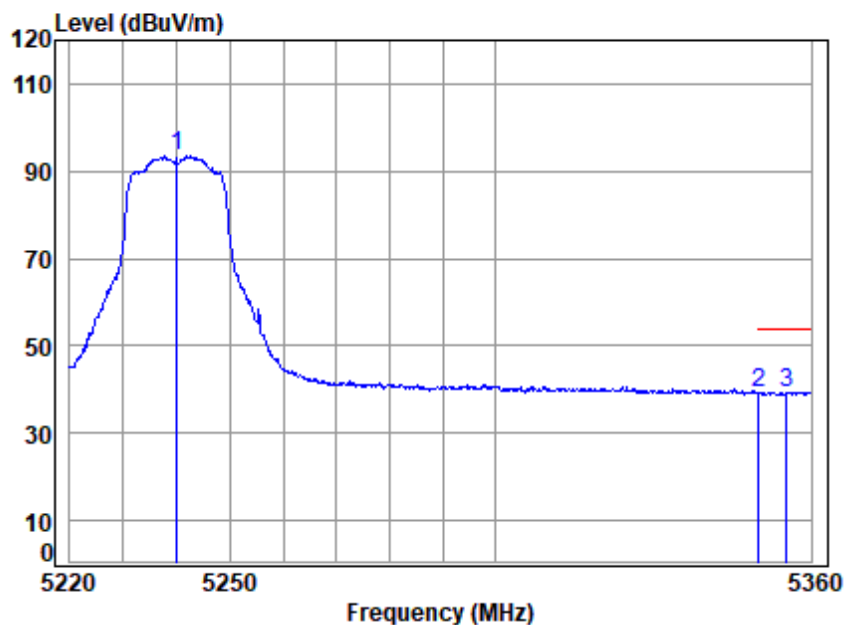
Mode:o; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5240 Band edge
: 5G WIFI 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5240.000	8.46	34.40	43.55	100.55	99.86	68.20	31.66	Peak
2 5350.020	8.63	34.48	43.44	46.99	46.66	74.00	-27.34	Peak
3 5353.195	8.63	34.49	43.44	49.03	48.71	74.00	-25.29	Peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5240 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	8.46	34.40	43.55	94.18	93.49	-----	----- Average
2	5350.020	8.63	34.48	43.44	39.62	39.29	54.00	-14.71 Average
3	5355.321	8.64	34.49	43.43	39.76	39.46	54.00	-14.54 Average

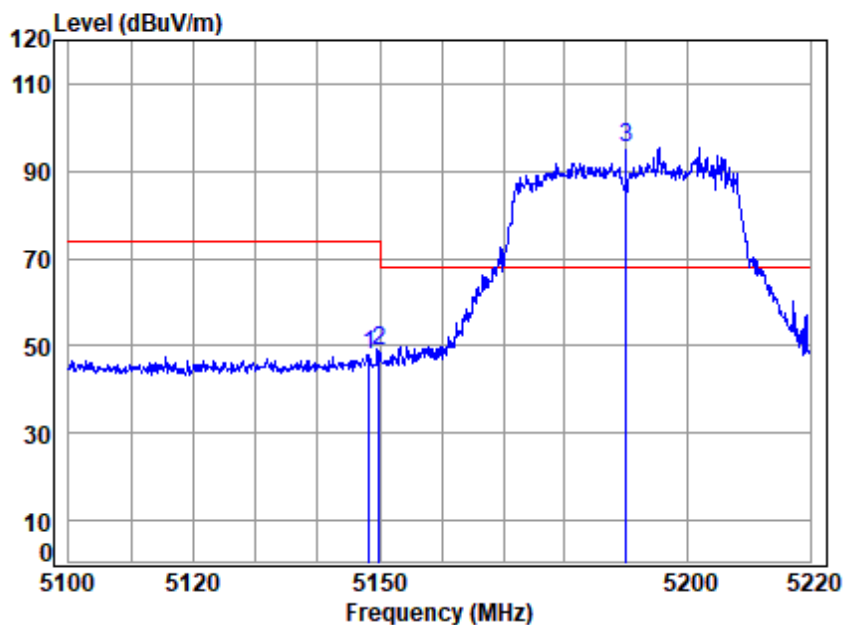


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Mode:o; Polarization:Horizontal; Modulation:802.11ac; bandwidth:40MHz; Channel:Low

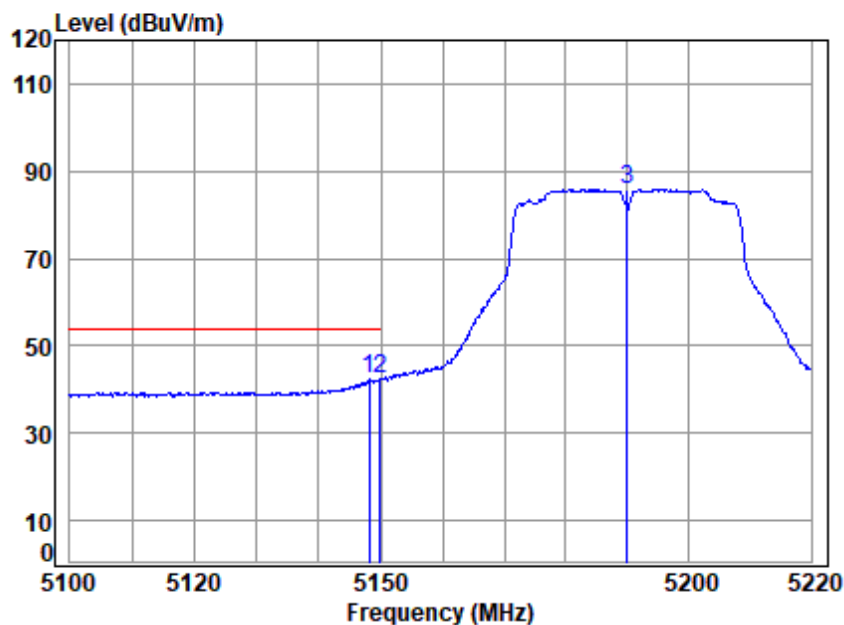


Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5190 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.264	8.32	34.32	43.64	48.80	47.80	74.00	-26.20 peak
2	5149.980	8.33	34.32	43.64	49.83	48.84	74.00	-25.16 peak
3 *	5190.000	8.39	34.36	43.60	96.42	95.57	68.20	27.37 peak



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

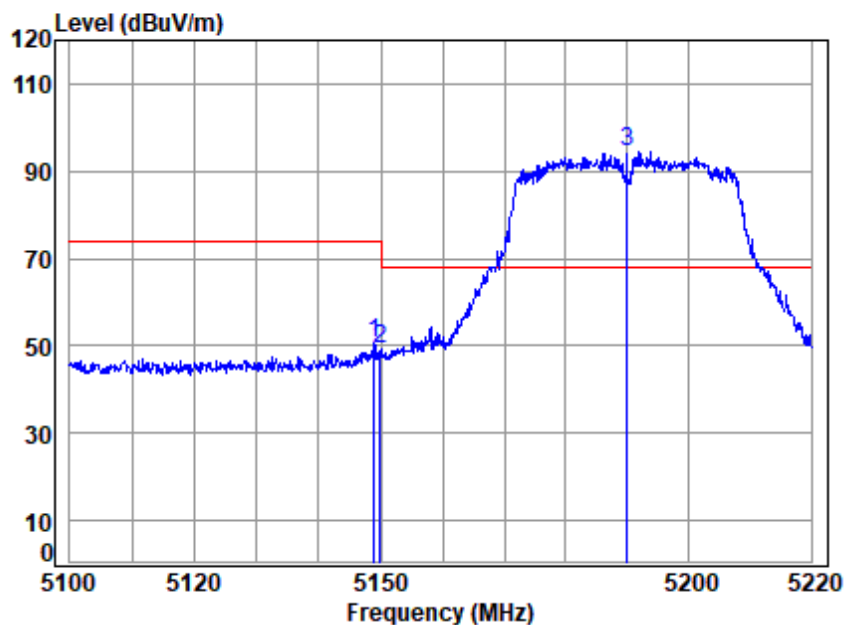


Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5190 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.144	8.32	34.32	43.64	43.25	42.25	54.00	-11.75 Average
2	5149.980	8.33	34.32	43.64	43.36	42.37	54.00	-11.63 Average
3	5190.000	8.39	34.36	43.60	86.76	85.91	-----	----- Average



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

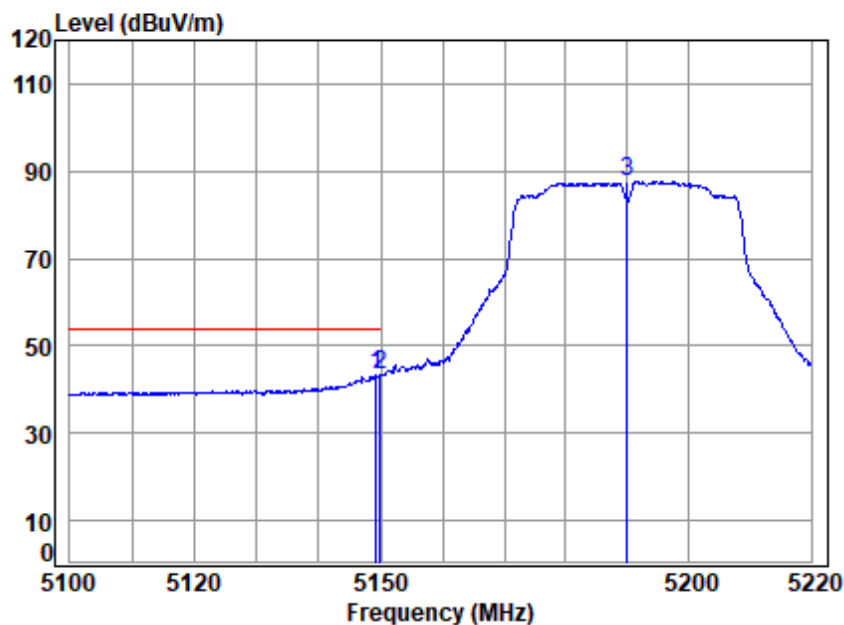


Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5190 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.982	8.32	34.32	43.64	51.63	50.63	74.00	-23.37 Peak
2	5149.980	8.33	34.32	43.64	50.25	49.26	74.00	-24.74 Peak
3 *	5190.000	8.39	34.36	43.60	95.18	94.33	68.20	26.13 Peak



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



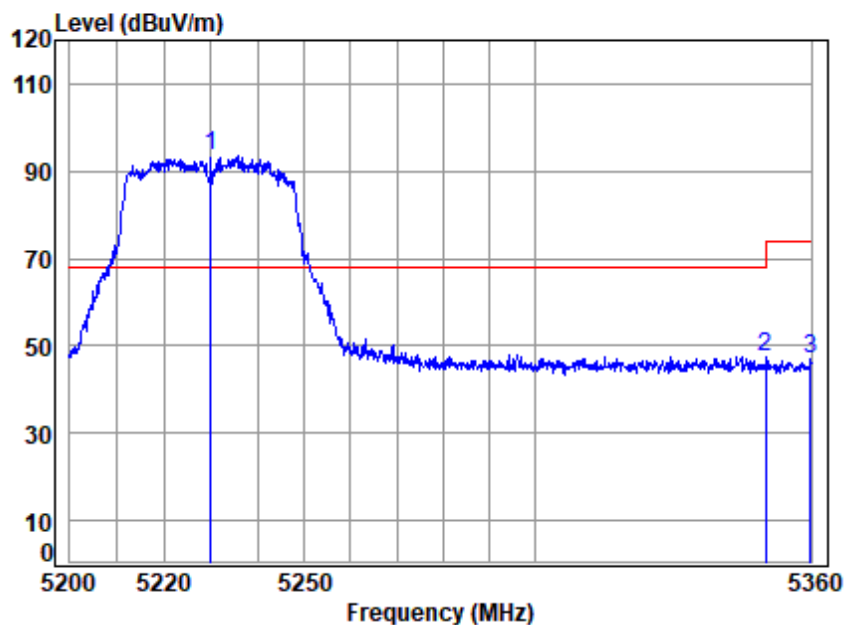
Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5190 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.342	8.32	34.32	43.64	44.19	43.19	54.00	-10.81 Average
2	5149.980	8.33	34.32	43.64	44.53	43.54	54.00	-10.46 Average
3	5190.000	8.39	34.36	43.60	88.58	87.73	-----	----- Average



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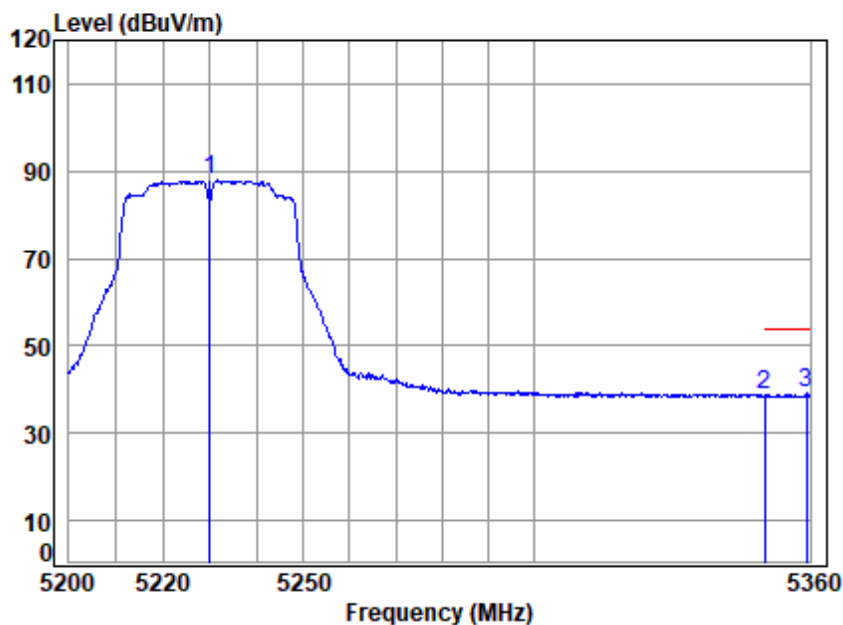
Mode:o; Polarization:Horizontal; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5230 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 *	5230.000	8.45	34.39	43.56	94.07	93.35	68.20	25.15 peak
2	5350.020	8.63	34.48	43.44	47.86	47.53	74.00	-26.47 peak
3	5359.837	8.64	34.49	43.43	47.20	46.90	74.00	-27.10 peak

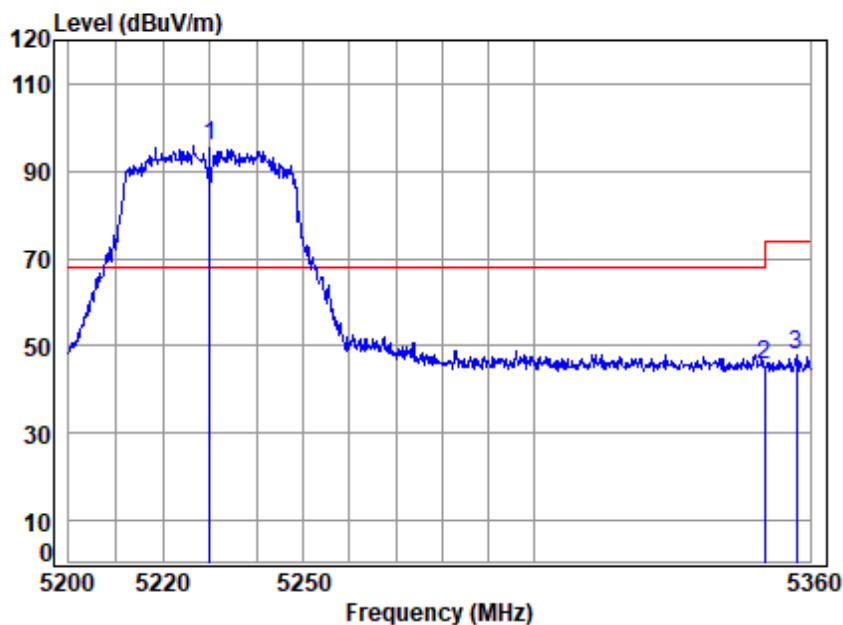
Mode:o; Polarization:Horizontal; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5230 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5230.000	8.45	34.39	43.56	88.65	87.93	-----	----- Average
2	5350.020	8.63	34.48	43.44	38.97	38.64	54.00	-15.36 Average
3	5359.188	8.64	34.49	43.43	39.45	39.15	54.00	-14.85 Average

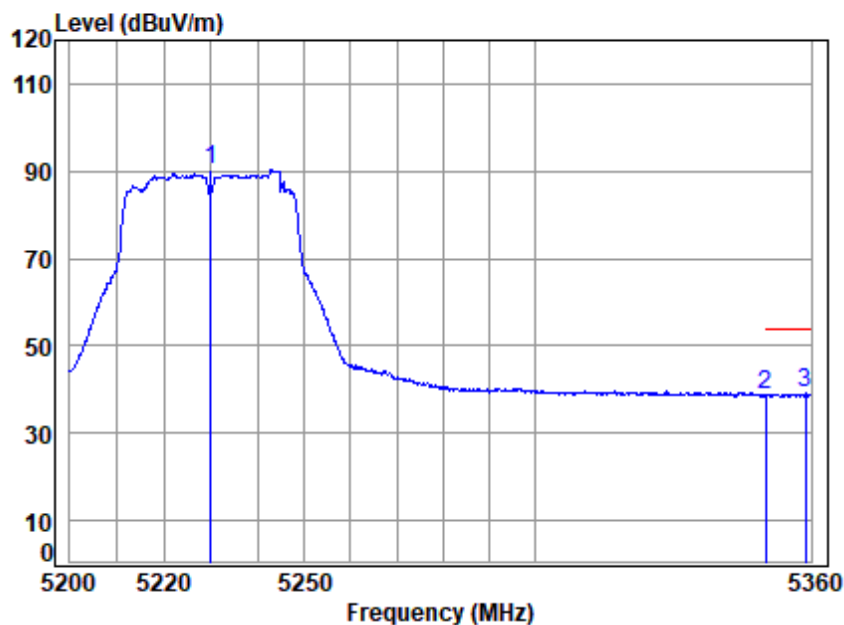
Mode:o; Polarization:Vertical; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5230 Band edge
: 5G WIFI 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5230.000	8.45	34.39	43.56	96.50	95.78	68.20	27.58	Peak
2 5350.020	8.63	34.48	43.44	45.73	45.40	74.00	-28.60	Peak
3 5357.077	8.64	34.49	43.43	48.10	47.80	74.00	-26.20	Peak

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

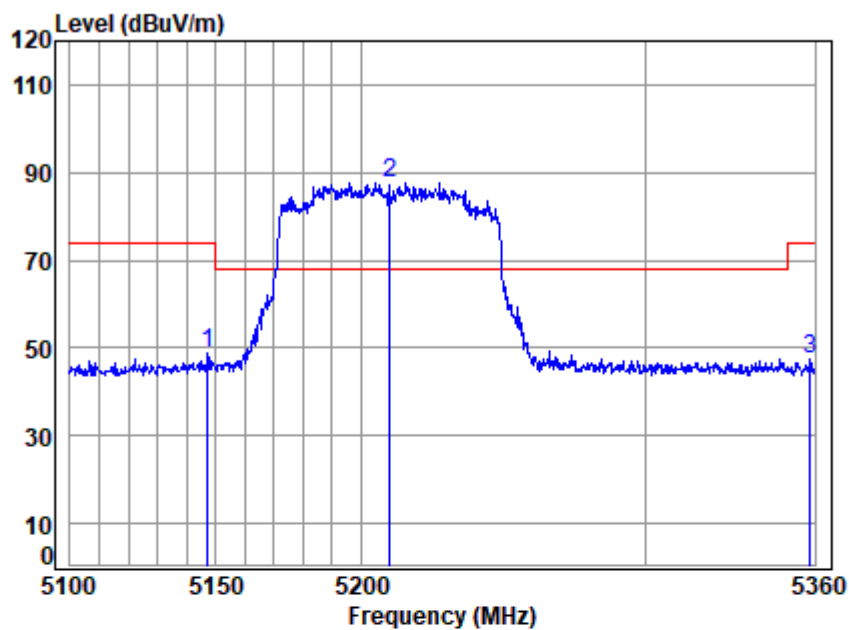


Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5230 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5230.000	8.45	34.39	43.56	90.86	90.14	-----	----- Average
2	5350.020	8.63	34.48	43.44	38.99	38.66	54.00	-15.34 Average
3	5358.863	8.64	34.49	43.43	39.53	39.23	54.00	-14.77 Average



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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5210 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5147.130	8.32	34.32	43.65	50.05	49.04	74.00	-24.96	peak
2 * 5210.000	8.42	34.37	43.58	88.48	87.69	68.20	19.49	peak
3 5358.401	8.64	34.49	43.43	47.58	47.28	74.00	-26.72	peak

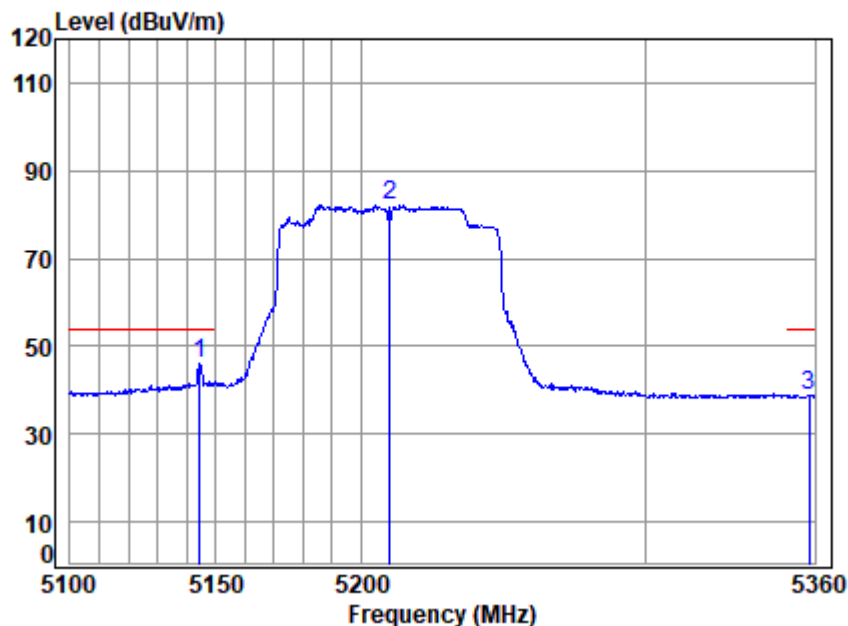


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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

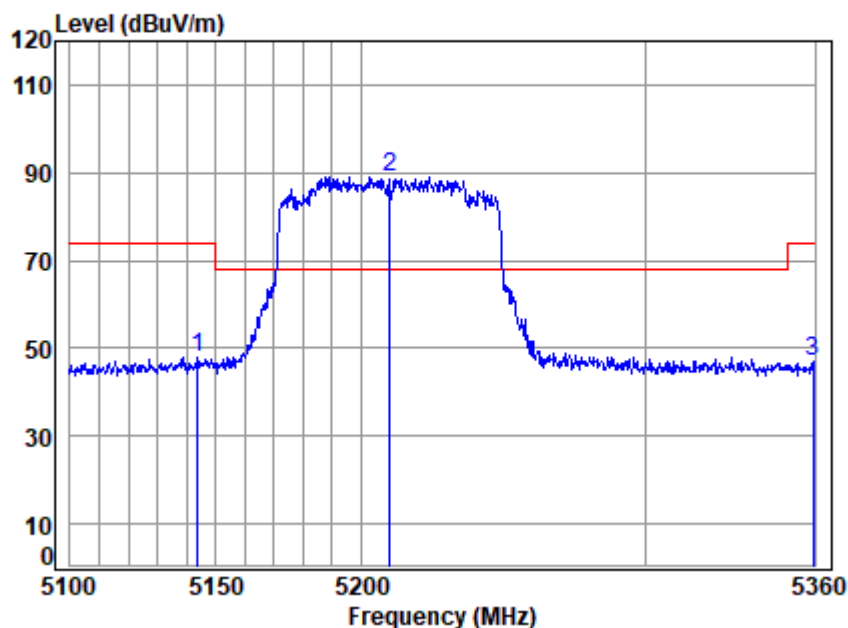
Mode:o; Polarization:Horizontal; Modulation:802.11ac; bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5210 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5144.316	8.32	34.32	43.65	47.09	46.08	54.00	-7.92 Average
2	5210.000	8.42	34.37	43.58	82.95	82.16	-----	----- Average
3	5357.868	8.64	34.49	43.43	39.24	38.94	54.00	-15.06 Average

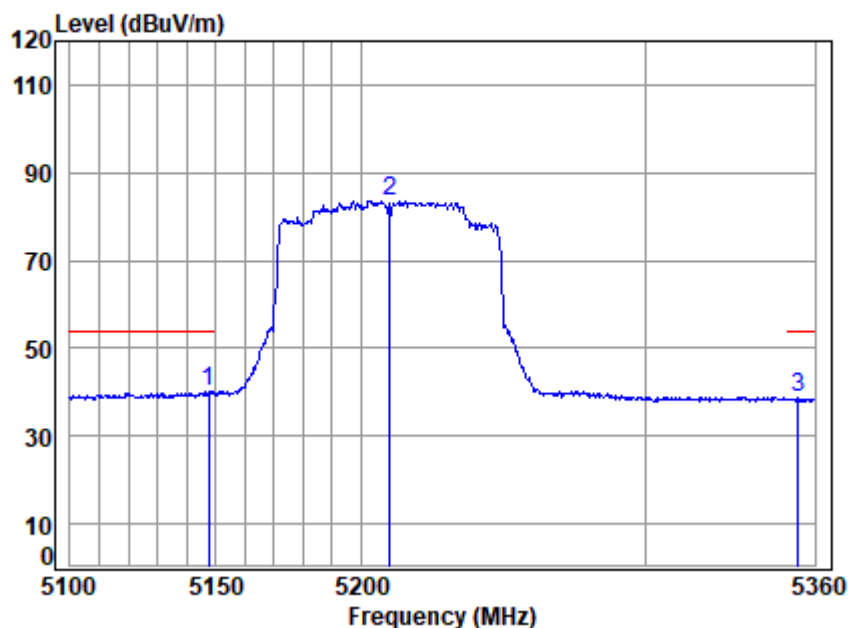
Mode:o; Polarization:Vertical; Modulation:802.11ac; bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5210 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5143.549	8.32	34.32	43.65	49.05	48.04	74.00	-25.96	Peak
2 *	5210.000	8.42	34.37	43.58	89.75	88.96	68.20	20.76	Peak
3	5359.467	8.64	34.49	43.43	47.11	46.81	74.00	-27.19	Peak

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

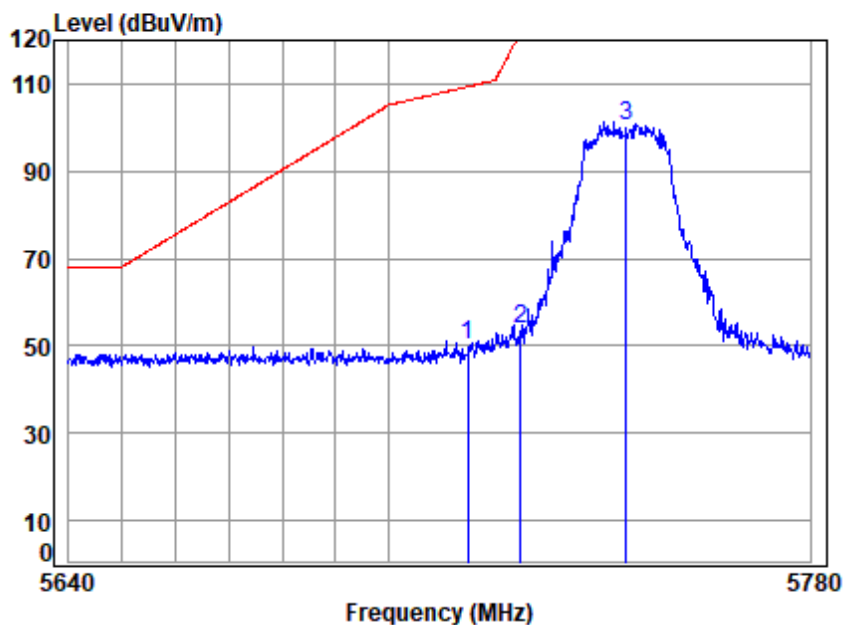


Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5210 Band edge
: 5G WIFI 11AC80

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5147.386	8.32	34.32	43.65	41.33	40.32	54.00	-13.68	Average
2 5210.000	8.42	34.37	43.58	84.32	83.53	-----	-----	Average
3 5354.140	8.64	34.49	43.44	38.87	38.56	54.00	-15.44	Average



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

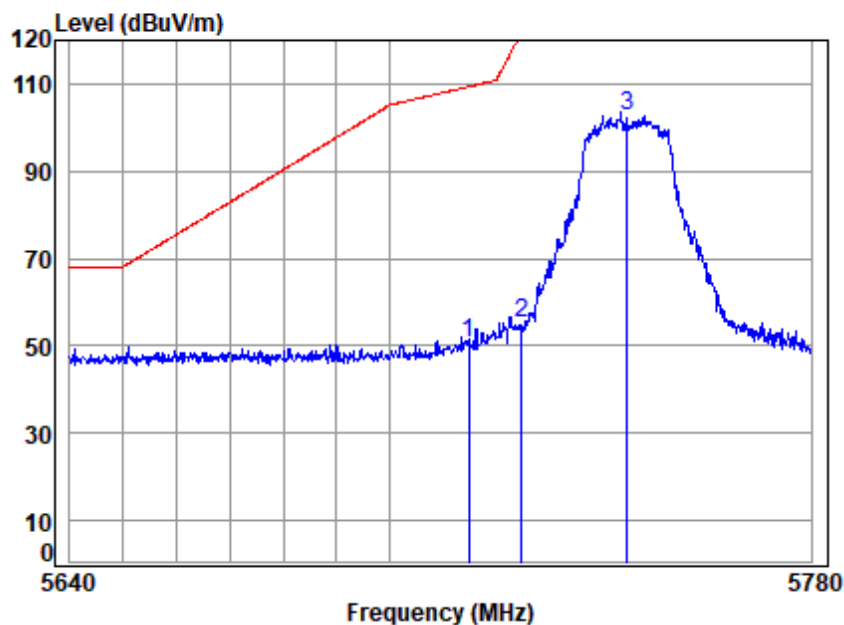


Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5745 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	9.61	34.82	43.09	48.86	50.20	109.40	-59.20 Peak
2	5725.000	9.64	34.83	43.08	52.35	53.74	122.20	-68.46 peak
3	5745.000	9.71	34.85	43.06	98.98	100.48	125.20	-24.72 peak



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

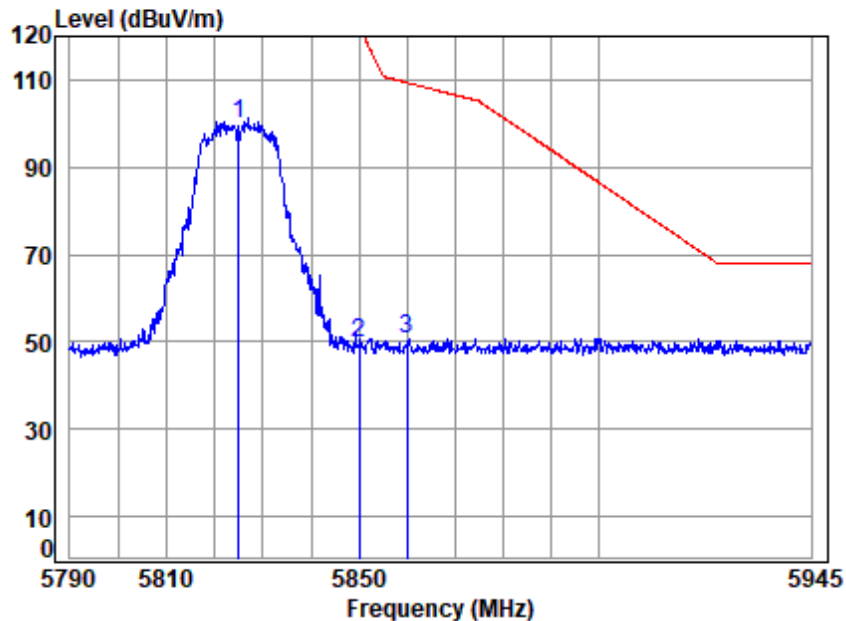


Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5745 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	9.61	34.82	43.09	49.18	50.52	109.40	-58.88 peak
2	5725.000	9.64	34.83	43.08	54.04	55.43	122.20	-66.77 peak
3	5745.000	9.71	34.85	43.06	100.99	102.49	125.20	-22.71 peak



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

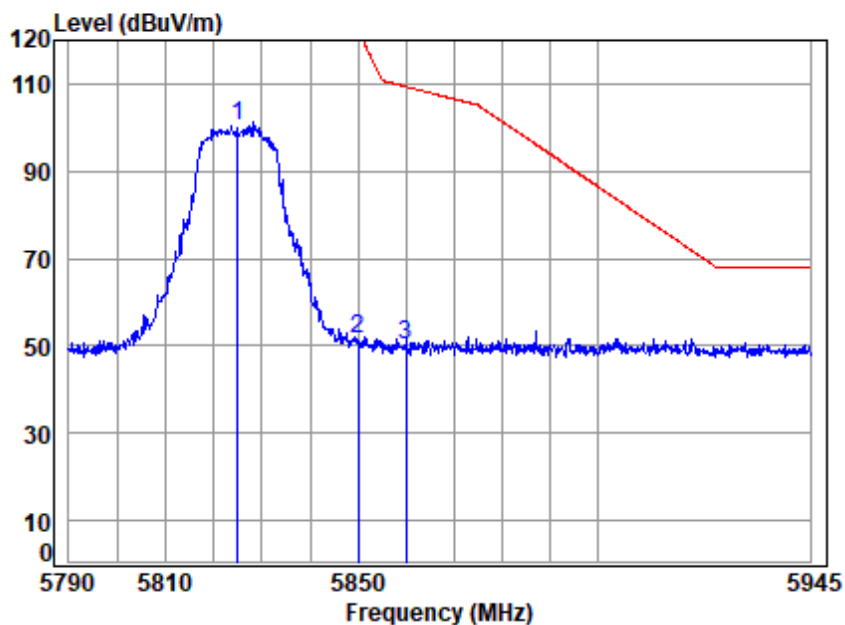


Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5825 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	9.98	34.93	42.99	98.18	100.10	125.20	-25.10 peak
2	5850.000	10.07	34.95	42.96	47.56	49.62	122.20	-72.58 peak
3	5860.000	10.10	34.96	42.96	48.44	50.54	109.40	-58.86 peak



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

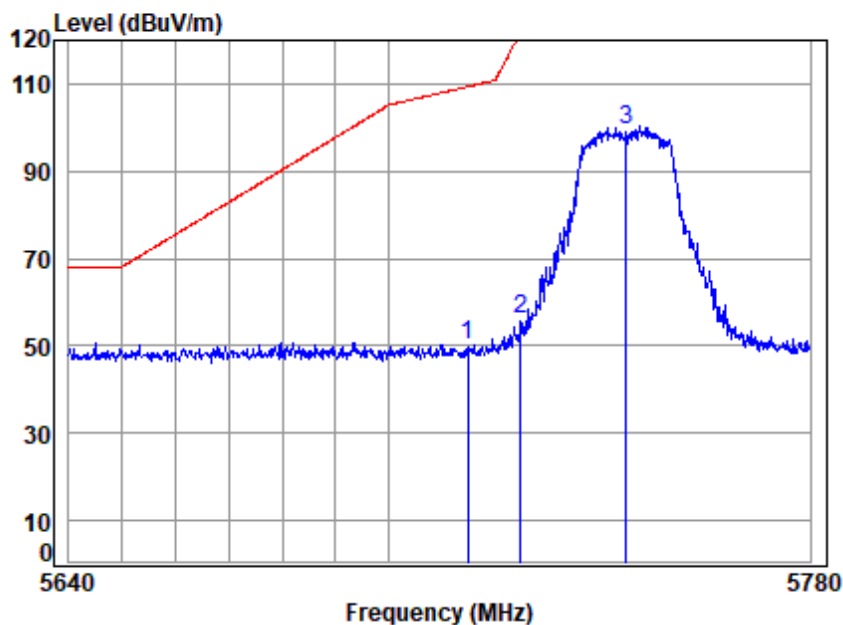


Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5825 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	9.98	34.93	42.99	98.53	100.45	125.20	-24.75 peak
2	5850.000	10.07	34.95	42.96	49.32	51.38	122.20	-70.82 peak
3	5860.000	10.10	34.96	42.96	48.25	50.35	109.40	-59.05 peak



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

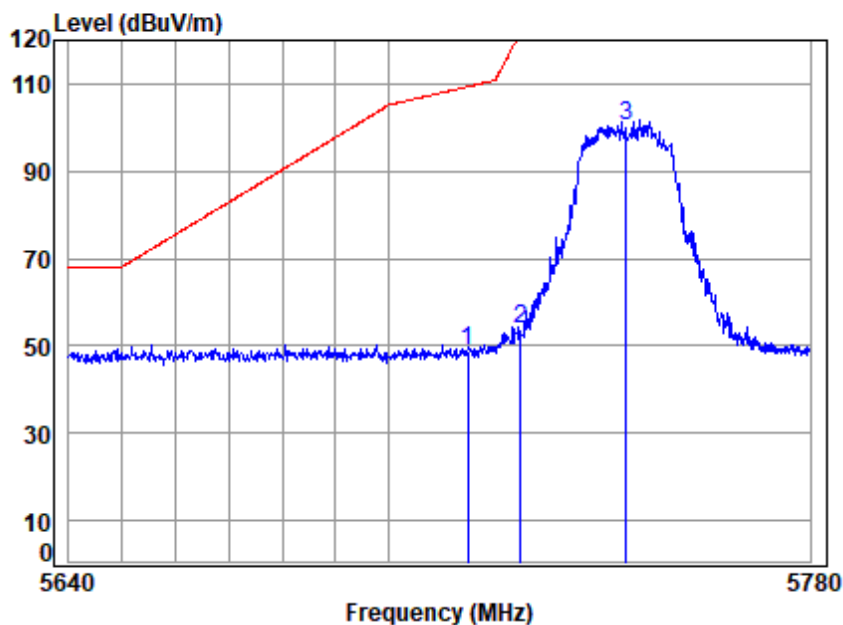


Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5745 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	9.61	34.82	43.09	48.85	50.19	109.40	-59.21 peak
2	5725.000	9.64	34.83	43.08	54.74	56.13	122.20	-66.07 peak
3	5745.000	9.71	34.85	43.06	98.01	99.51	125.20	-25.69 peak



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

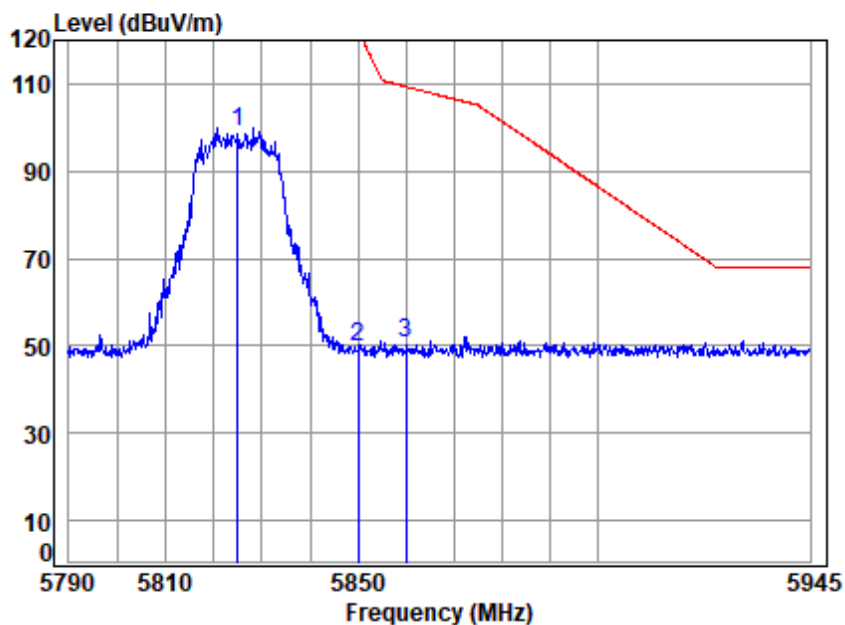


Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5745 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	9.61	34.82	43.09	47.37	48.71	109.40	-60.69 peak
2	5725.000	9.64	34.83	43.08	52.37	53.76	122.20	-68.44 peak
3	5745.000	9.71	34.85	43.06	99.03	100.53	125.20	-24.67 peak



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

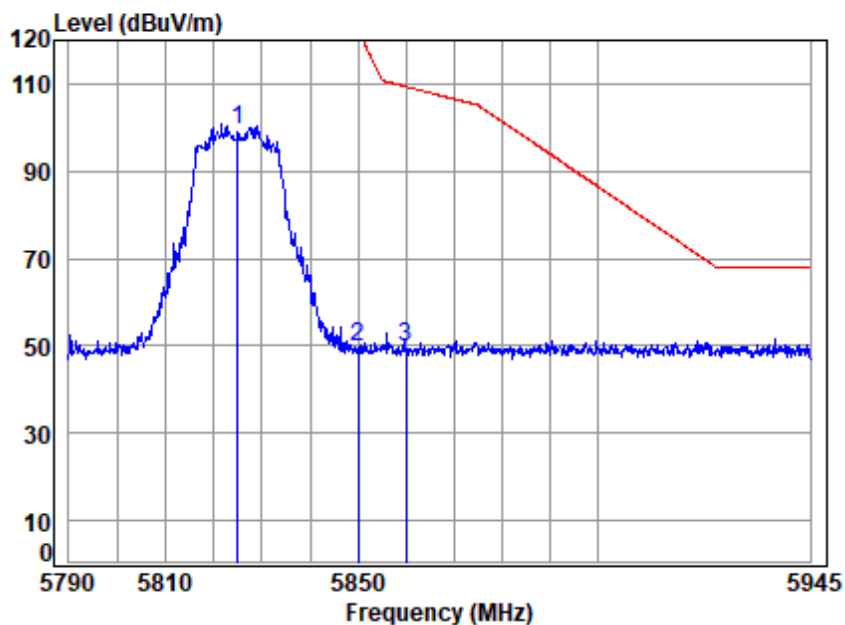


Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5825 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	9.98	34.93	42.99	97.09	99.01	125.20	-26.19 peak
2	5850.000	10.07	34.95	42.96	47.64	49.70	122.20	-72.50 peak
3	5860.000	10.10	34.96	42.96	48.48	50.58	109.40	-58.82 peak



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



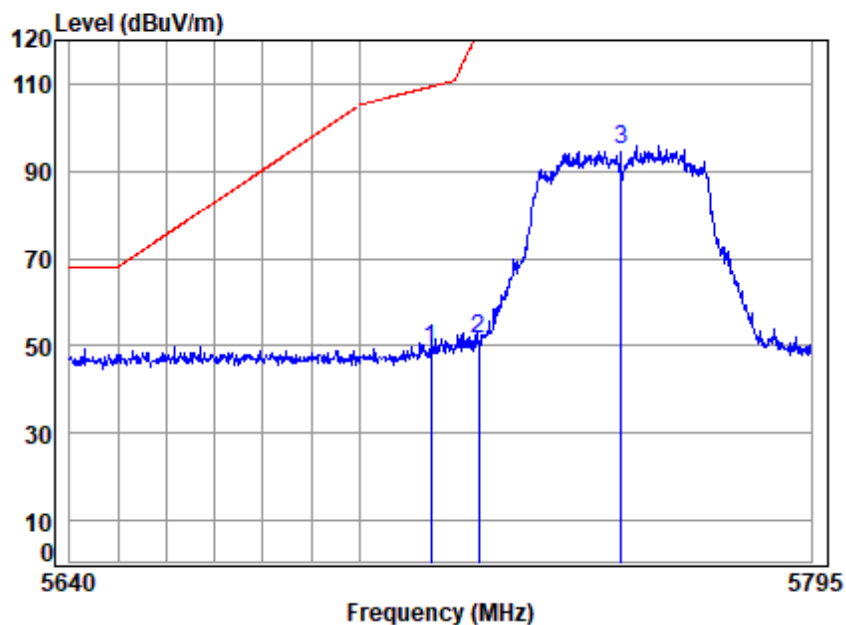
Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5825 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	9.98	34.93	42.99	97.73	99.65	125.20	-25.55 peak
2	5850.000	10.07	34.95	42.96	47.67	49.73	122.20	-72.47 peak
3	5860.000	10.10	34.96	42.96	47.86	49.96	109.40	-59.44 peak



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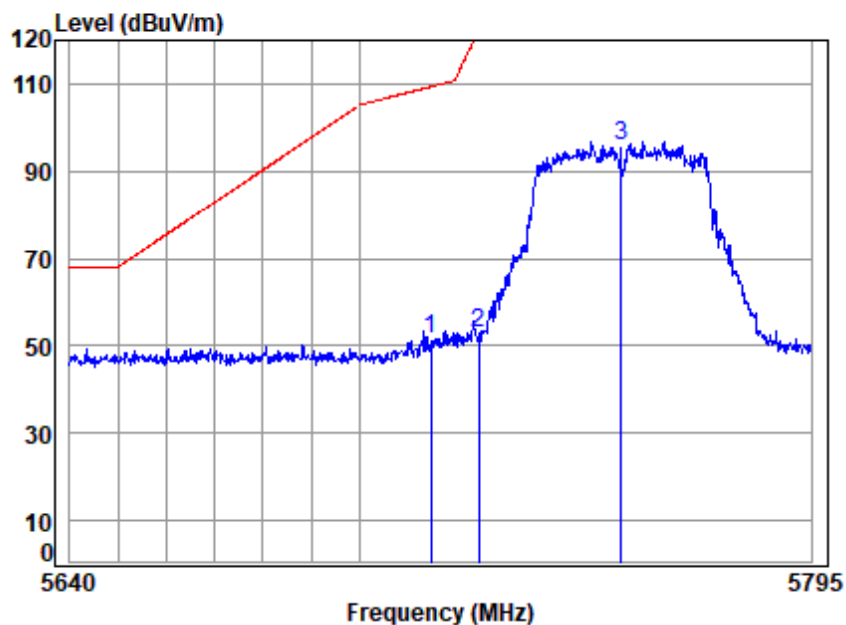
Mode:p; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5755 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	9.61	34.82	43.09	47.94	49.28	109.40	-60.12 peak
2	5725.000	9.64	34.83	43.08	50.40	51.79	122.20	-70.41 peak
3	5755.000	9.75	34.86	43.05	93.28	94.84	125.20	-30.36 peak

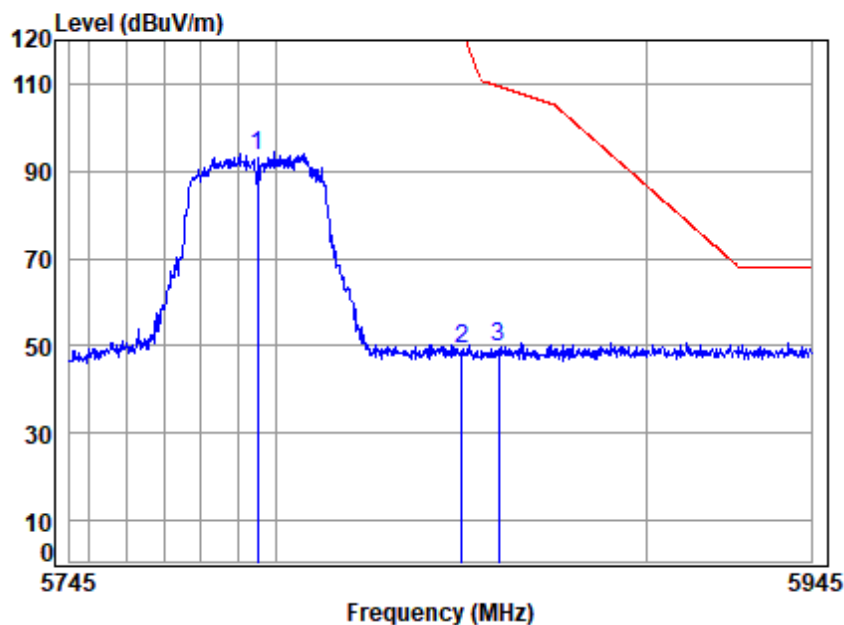
Mode:p; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5755 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	9.61	34.82	43.09	50.14	51.48	109.40	-57.92 peak
2	5725.000	9.64	34.83	43.08	51.76	53.15	122.20	-69.05 peak
3	5755.000	9.75	34.86	43.05	94.21	95.77	125.20	-29.43 peak

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

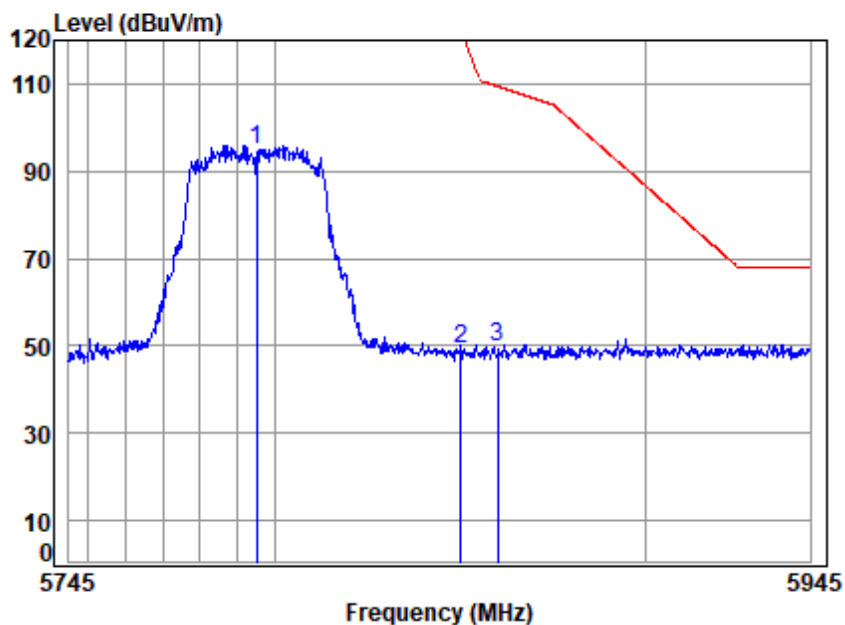


Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5795 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	9.88	34.90	43.02	91.90	93.66	125.20	-31.54	peak
2	5850.000	10.07	34.95	42.96	47.03	49.09	122.20	-73.11	peak
3	5860.000	10.10	34.96	42.96	47.61	49.71	109.40	-59.69	peak



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

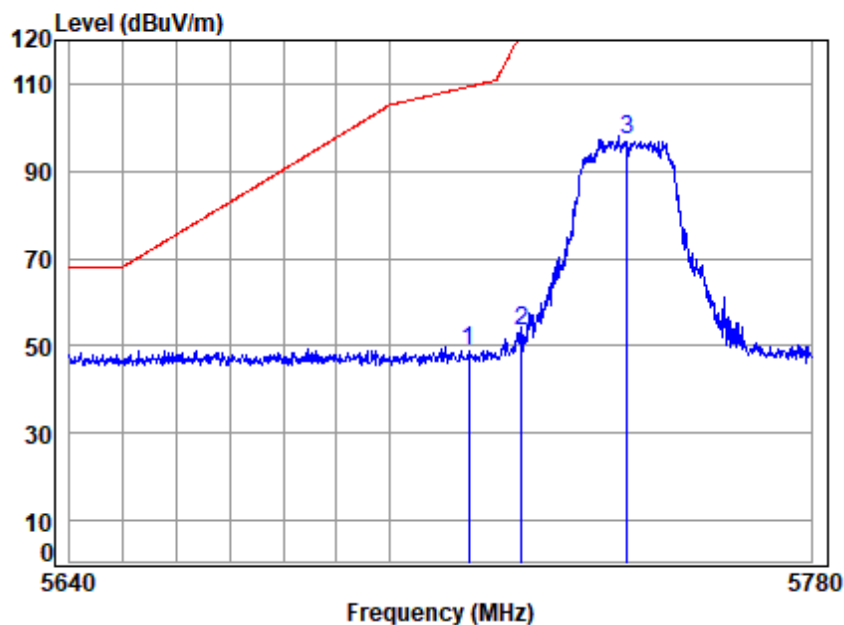


Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5795 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.000	9.88	34.90	43.02	93.16	94.92	125.20	-30.28 peak
2	5850.000	10.07	34.95	42.96	47.29	49.35	122.20	-72.85 peak
3	5860.000	10.10	34.96	42.96	47.64	49.74	109.40	-59.66 peak



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

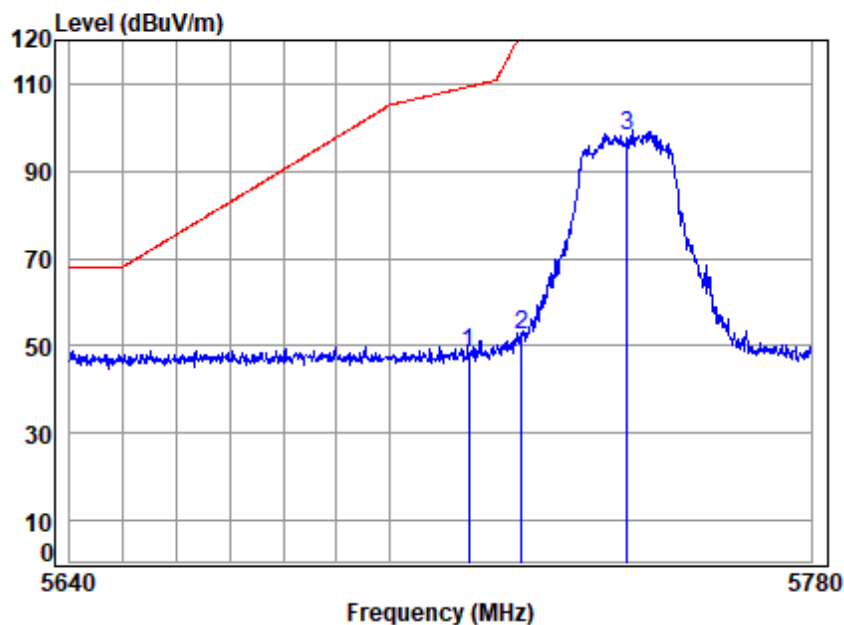


Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5745 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	9.61	34.82	43.09	47.52	48.86	109.40	-60.54 peak
2	5725.000	9.64	34.83	43.08	52.04	53.43	122.20	-68.77 peak
3	5745.000	9.71	34.85	43.06	95.71	97.21	125.20	-27.99 peak



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

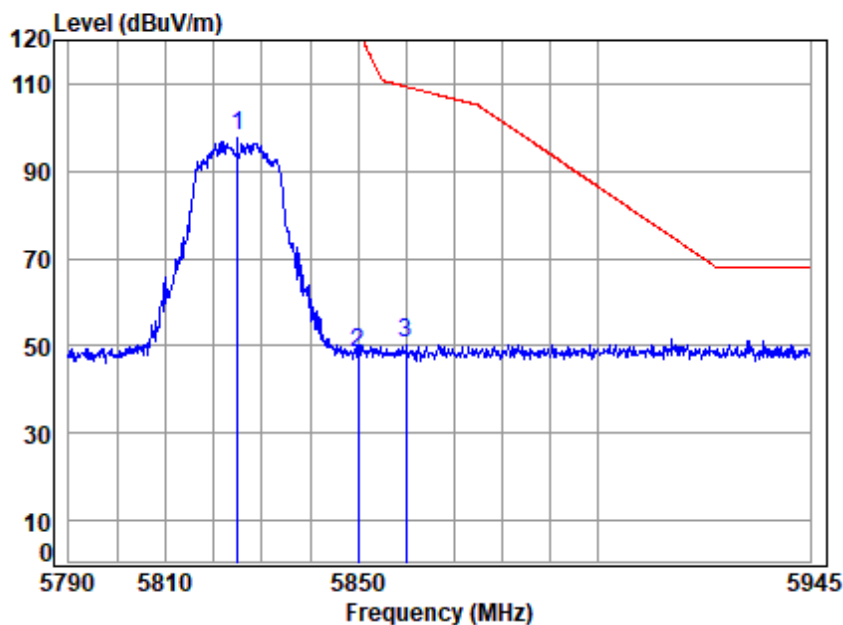


Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5745 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	9.61	34.82	43.09	46.99	48.33	109.40	-61.07 peak
2	5725.000	9.64	34.83	43.08	50.95	52.34	122.20	-69.86 peak
3	5745.000	9.71	34.85	43.06	96.75	98.25	125.20	-26.95 peak



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



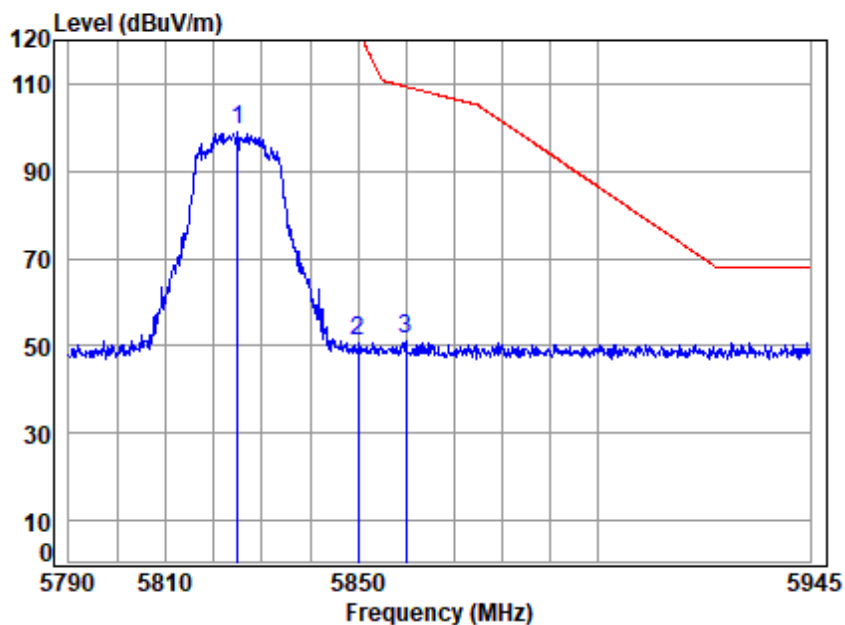
Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5825 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	9.98	34.93	42.99	95.98	97.90	125.20	-27.30 peak
2	5850.000	10.07	34.95	42.96	46.48	48.54	122.20	-73.66 peak
3	5860.000	10.10	34.96	42.96	48.70	50.80	109.40	-58.60 peak



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

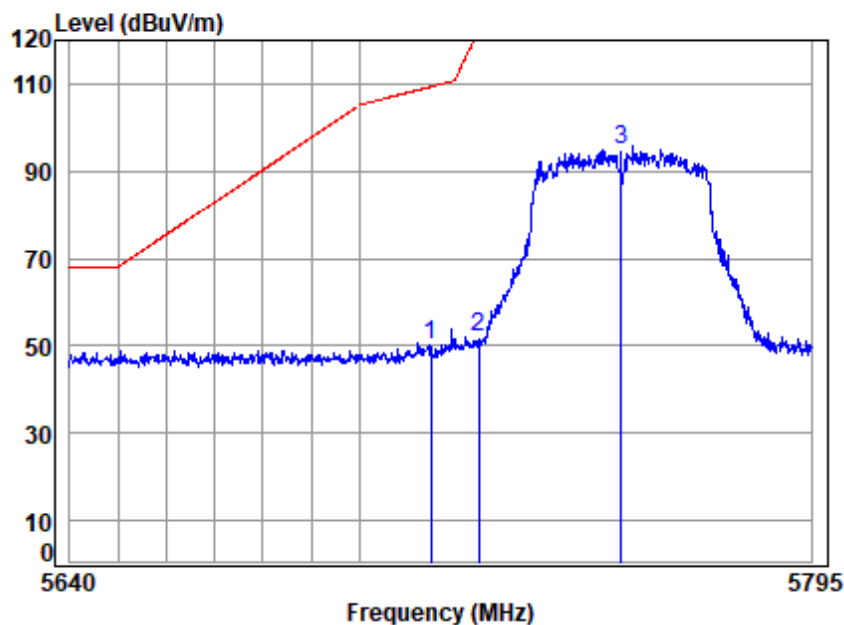


Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5825 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	9.98	34.93	42.99	97.60	99.52	125.20	-25.68 peak
2	5850.000	10.07	34.95	42.96	49.02	51.08	122.20	-71.12 peak
3	5860.000	10.10	34.96	42.96	49.43	51.53	109.40	-57.87 peak



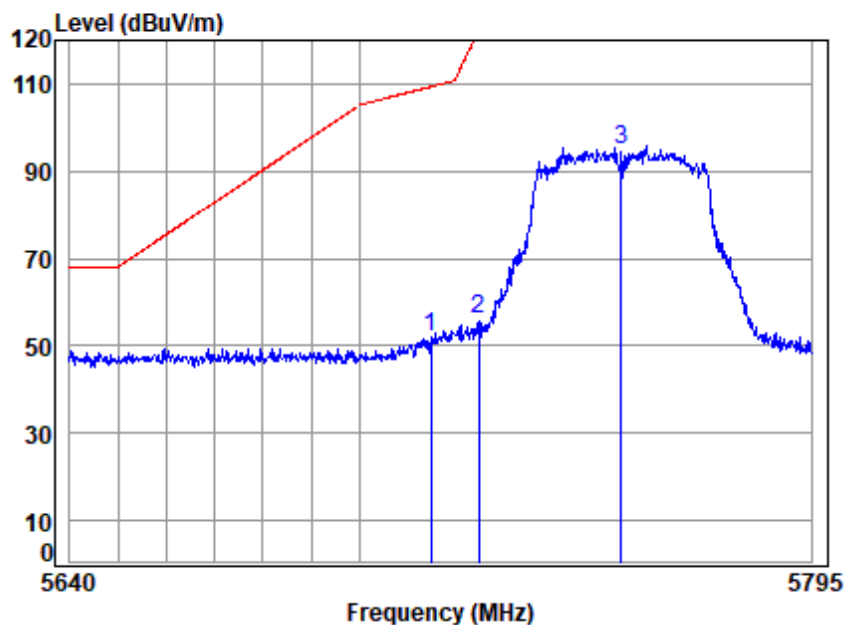
Mode:p; Polarization:Horizontal; Modulation:802.11ac; bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5755 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	9.61	34.82	43.09	48.74	50.08	109.40	-59.32 peak
2	5725.000	9.64	34.83	43.08	50.70	52.09	122.20	-70.11 peak
3	5755.000	9.75	34.86	43.05	93.27	94.83	125.20	-30.37 peak

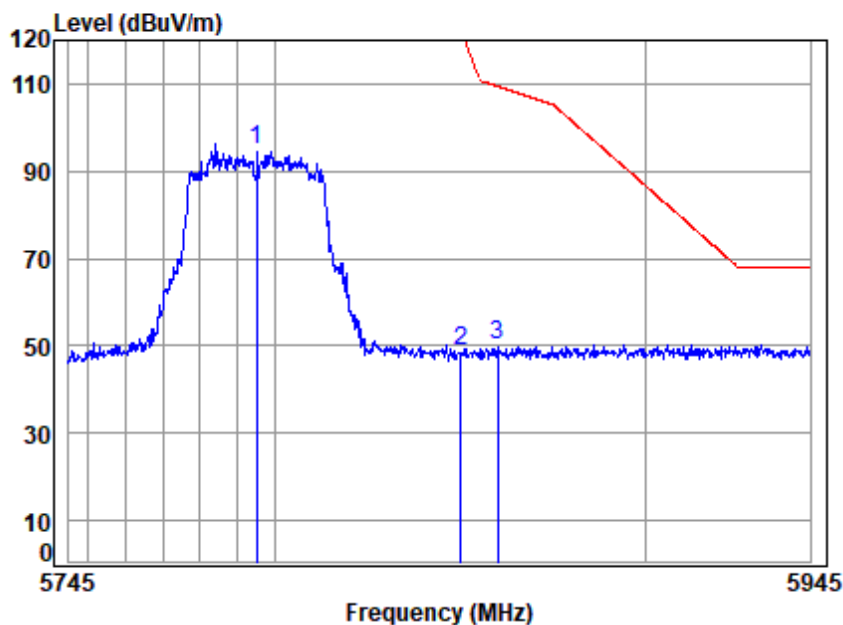
Mode:p; Polarization:Vertical; Modulation:802.11ac; bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5755 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	9.61	34.82	43.09	50.47	51.81	109.40	-57.59 peak
2	5725.000	9.64	34.83	43.08	54.58	55.97	122.20	-66.23 peak
3	5755.000	9.75	34.86	43.05	93.30	94.86	125.20	-30.34 peak

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

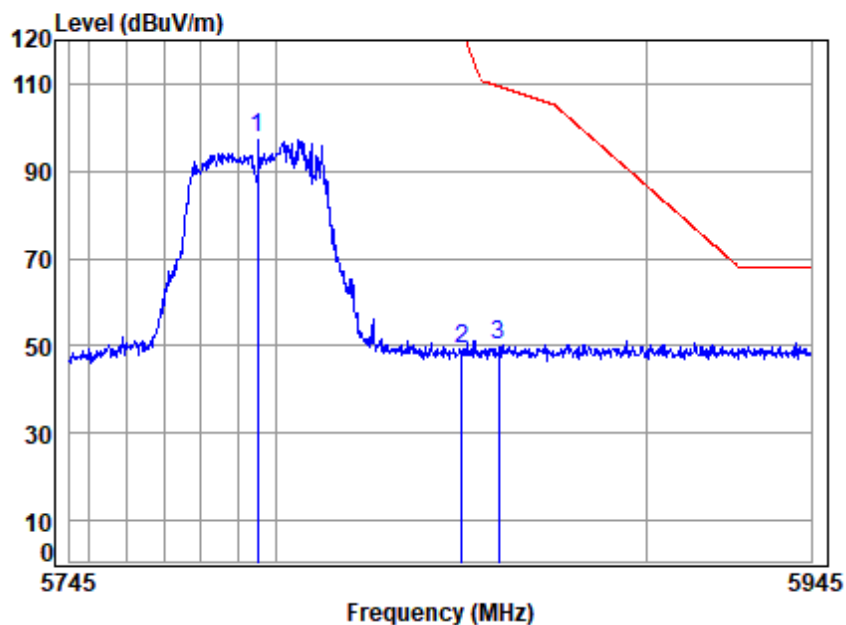


Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5795 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.000	9.88	34.90	43.02	93.35	95.11	125.20	-30.09 peak
2	5850.000	10.07	34.95	42.96	46.76	48.82	122.20	-73.38 peak
3	5860.000	10.10	34.96	42.96	48.17	50.27	109.40	-59.13 peak



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

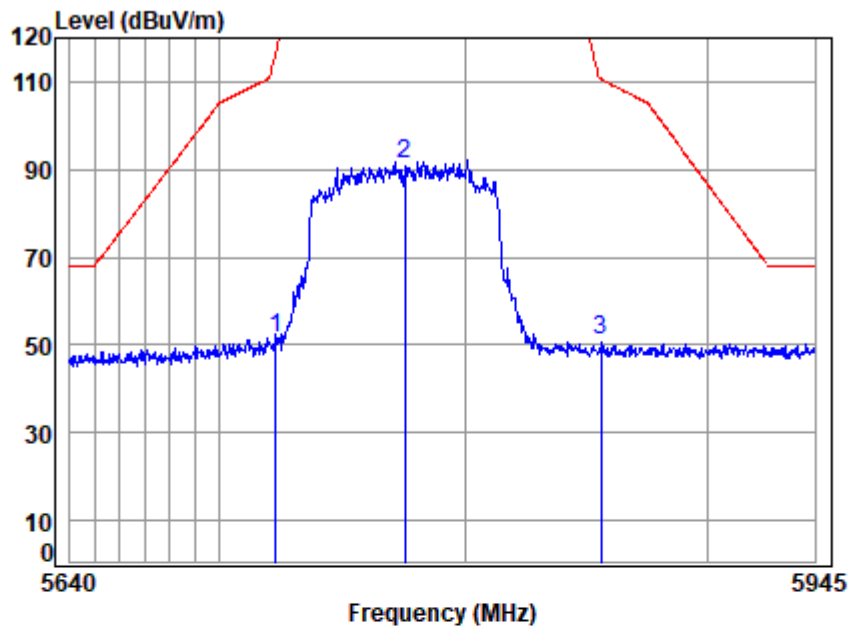


Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5795 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.000	9.88	34.90	43.02	95.70	97.46	125.20	-27.74 peak
2	5850.000	10.07	34.95	42.96	47.09	49.15	122.20	-73.05 peak
3	5860.000	10.10	34.96	42.96	47.87	49.97	109.40	-59.43 peak



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

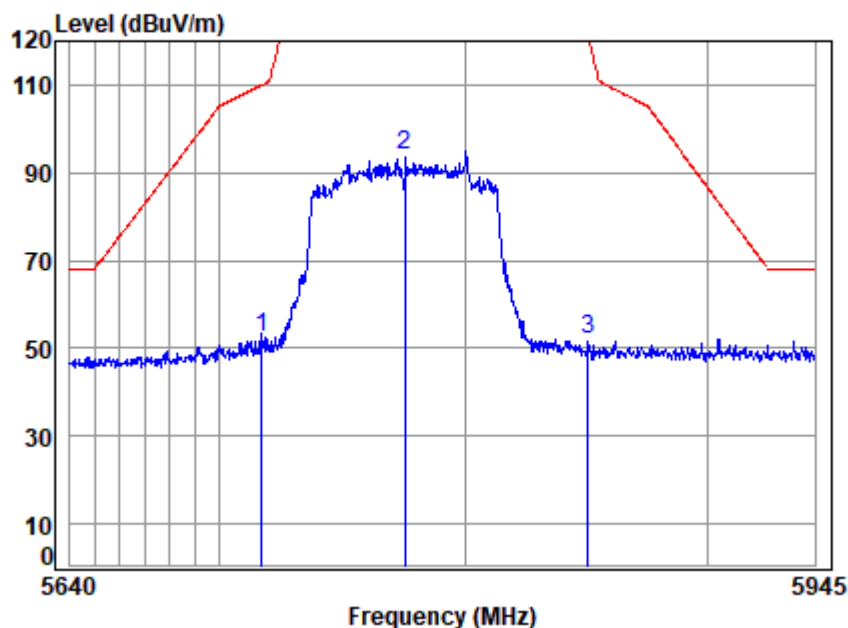


Site : chamber
Condition: 3m HORIZONTAL
Job No : 18098CR\18099CR
Mode : 5775 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5722.582	9.63	34.83	43.08	50.22	51.60	116.69	-65.09 peak
2	5775.000	9.81	34.88	43.03	89.42	91.08	125.20	-34.12 peak
3	5855.815	10.09	34.96	42.96	48.95	51.04	110.57	-59.53 peak



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



Site : chamber
Condition: 3m VERTICAL
Job No : 18098CR\18099CR
Mode : 5775 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5717.159	9.62	34.82	43.09	51.01	52.36	110.00	-57.64	peak
2	5775.000	9.81	34.88	43.03	92.42	94.08	125.20	-31.12	peak
3	5850.575	10.07	34.96	42.96	50.07	52.14	120.89	-68.75	peak

7.8 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.

7.8.1 E.U.T. Operation

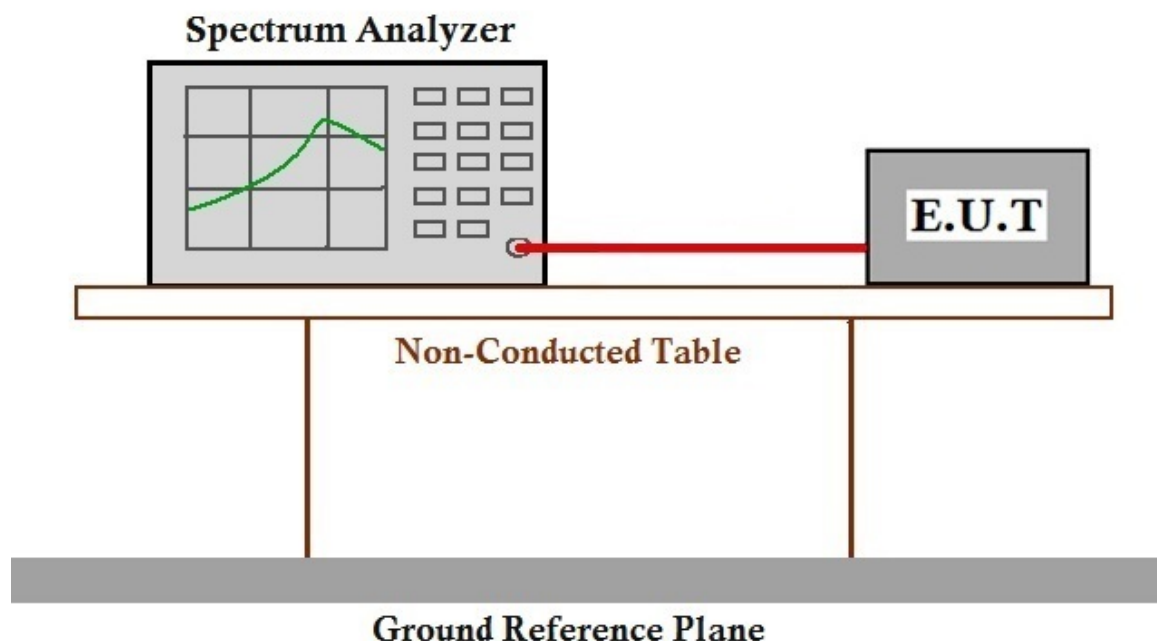
Operating Environment:

Temperature: 25.4 °C Humidity: 50 % RH Atmospheric Pressure: 1005 mbar

Test mode: o: TX mode (Band I)_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.

p: TX mode (Band III)_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.

7.8.2 Test Setup Diagram



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

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



7.8.3 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.





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.



9 Appendix

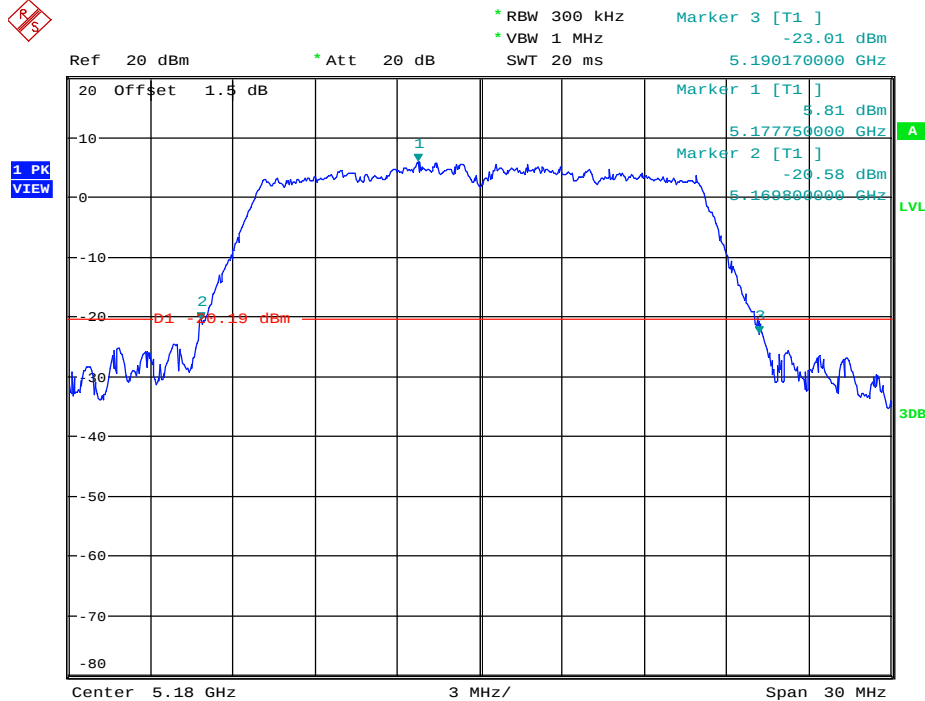
9.1 Appendix 15.407

1.Emission Bandwidth Measurement

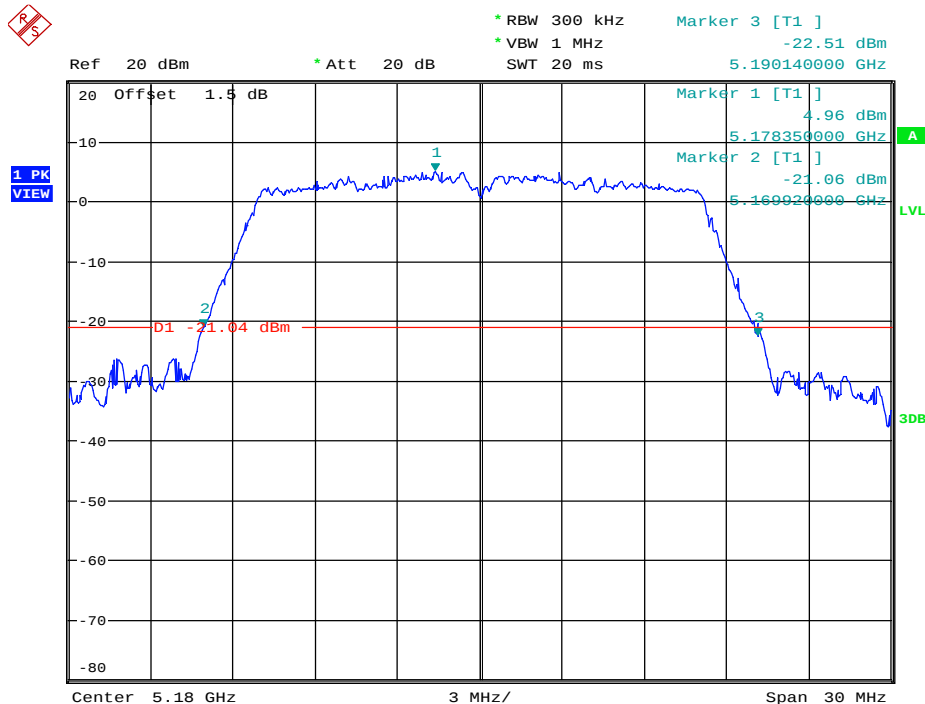
Test Mode	Test Channel	Ant	EBW[MHz]	Limit[MHz]	Verdict
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11A	5180	Ant6	20.220	---	PASS
11A	5220	Ant5	20.130	---	PASS
11A	5220	Ant6	20.190	---	PASS
11A	5240	Ant5	20.190	---	PASS
11A	5240	Ant6	20.250	---	PASS
11A	5745	Ant5	16.350	>=0.5	PASS
11A	5745	Ant6	16.350	>=0.5	PASS
11A	5785	Ant5	16.320	>=0.5	PASS
11A	5785	Ant6	16.350	>=0.5	PASS
11A	5825	Ant5	16.110	>=0.5	PASS
11A	5825	Ant6	16.110	>=0.5	PASS
11N20	5180	Ant5	20.580	---	PASS
11N20	5180	Ant6	20.550	---	PASS
11N20	5220	Ant5	20.550	---	PASS
11N20	5220	Ant6	20.580	---	PASS
11N20	5240	Ant5	20.520	---	PASS
11N20	5240	Ant6	20.550	---	PASS
11N20	5745	Ant5	16.890	>=0.5	PASS
11N20	5745	Ant6	16.980	>=0.5	PASS
11N20	5785	Ant5	17.040	>=0.5	PASS
11N20	5785	Ant6	16.920	>=0.5	PASS
11N20	5825	Ant5	16.860	>=0.5	PASS
11N20	5825	Ant6	16.830	>=0.5	PASS
11N40	5190	Ant5	40.800	---	PASS
11N40	5190	Ant6	41.040	---	PASS
11N40	5230	Ant5	40.680	---	PASS

11N40	5230	Ant6	40.680	---	PASS
11N40	5755	Ant5	35.280	>=0.5	PASS
11N40	5755	Ant6	35.280	>=0.5	PASS
11N40	5795	Ant5	35.340	>=0.5	PASS
11N40	5795	Ant6	35.280	>=0.5	PASS
11AC20	5180	Ant5	20.550	---	PASS
11AC20	5180	Ant6	20.460	---	PASS
11AC20	5220	Ant5	20.550	---	PASS
11AC20	5220	Ant6	20.520	---	PASS
11AC20	5240	Ant5	20.550	---	PASS
11AC20	5240	Ant6	20.460	---	PASS
11AC20	5745	Ant5	17.100	>=0.5	PASS
11AC20	5745	Ant6	17.040	>=0.5	PASS
11AC20	5785	Ant5	16.890	>=0.5	PASS
11AC20	5785	Ant6	16.950	>=0.5	PASS
11AC20	5825	Ant5	16.980	>=0.5	PASS
11AC20	5825	Ant6	16.830	>=0.5	PASS
11AC80	5210	Ant5	82.080	---	PASS
11AC80	5210	Ant6	81.960	---	PASS
11AC80	5775	Ant5	75.480	>=0.5	PASS
11AC80	5775	Ant6	75.480	>=0.5	PASS
11AC40	5190	Ant5	40.740	---	PASS
11AC40	5190	Ant6	40.920	---	PASS
11AC40	5230	Ant5	40.800	---	PASS
11AC40	5230	Ant6	40.740	---	PASS
11AC40	5755	Ant5	35.280	>=0.5	PASS
11AC40	5755	Ant6	35.220	>=0.5	PASS
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11AC40	5795	Ant6	35.280	>=0.5	PASS

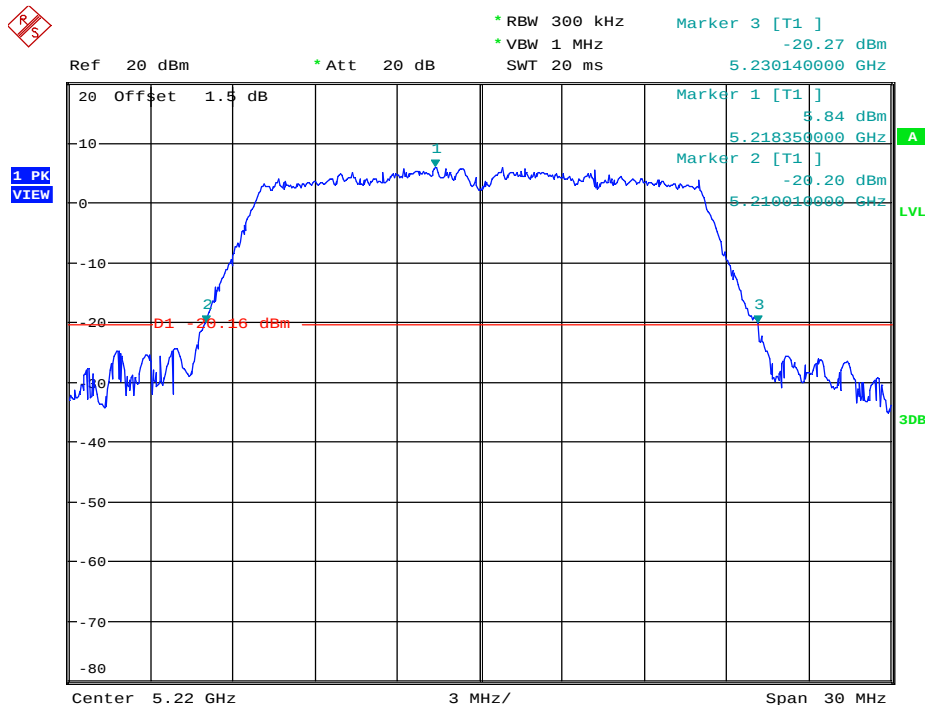
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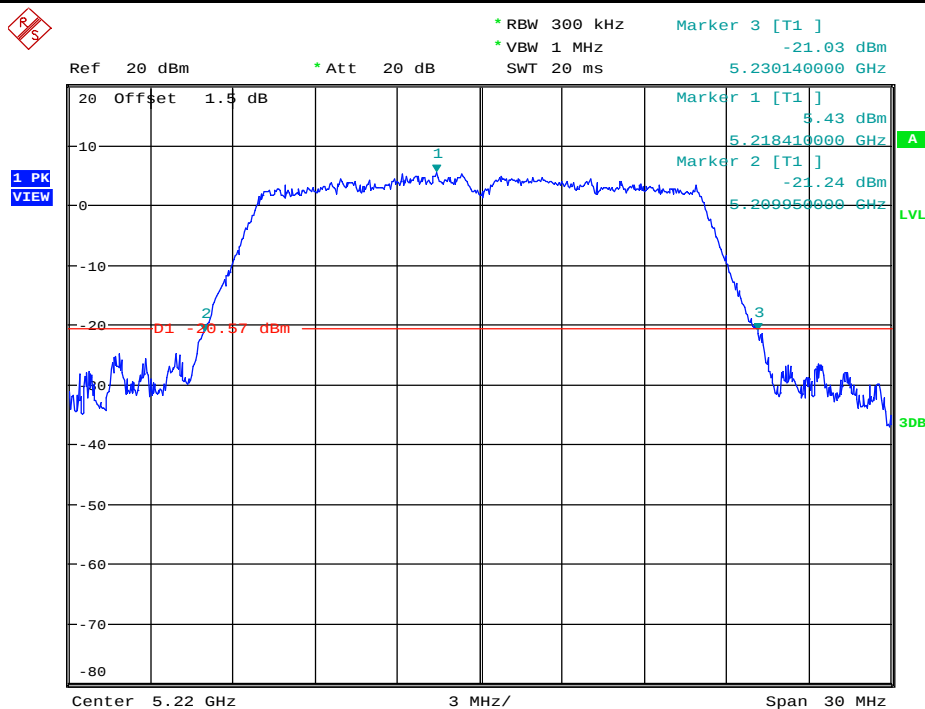
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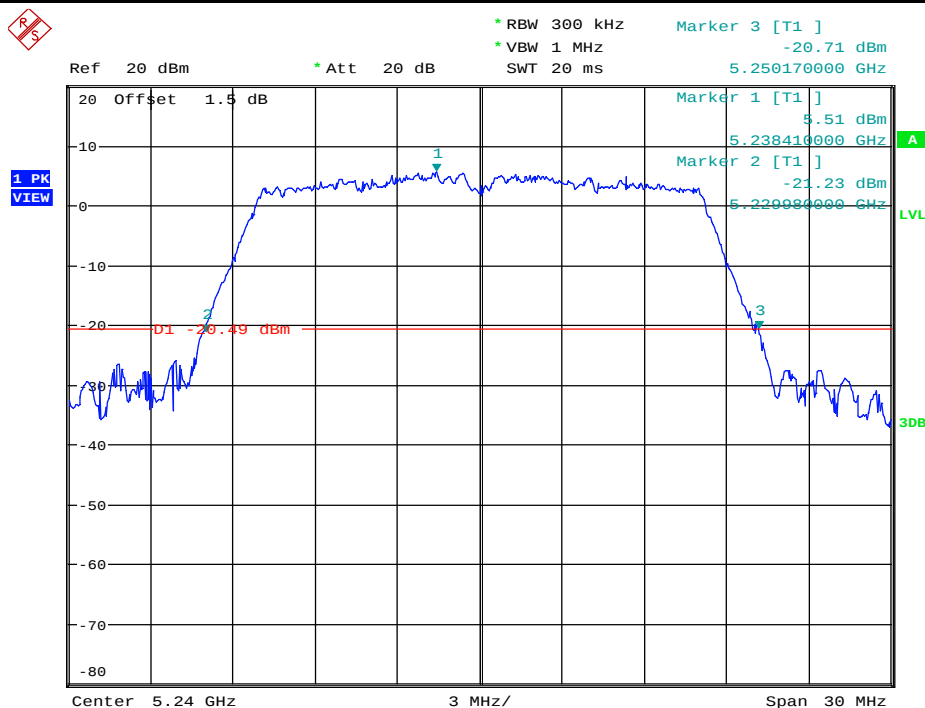
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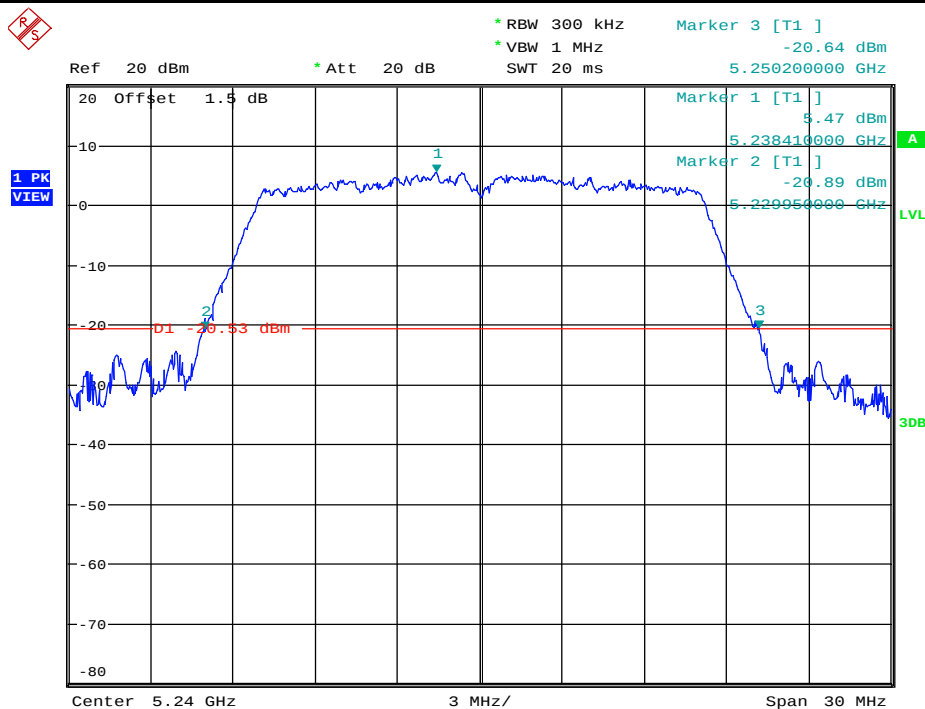
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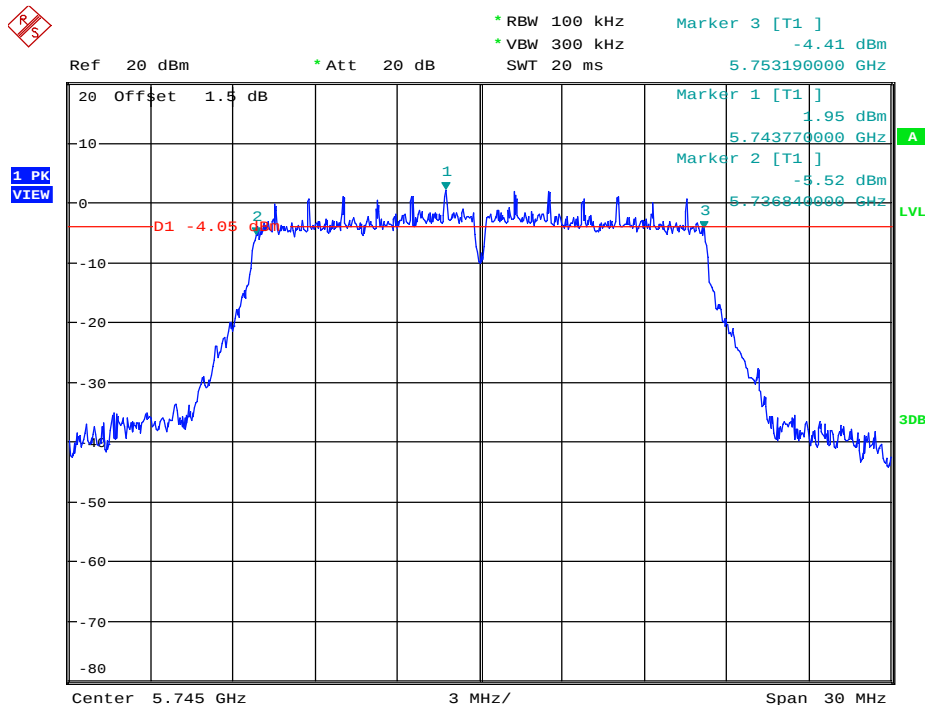
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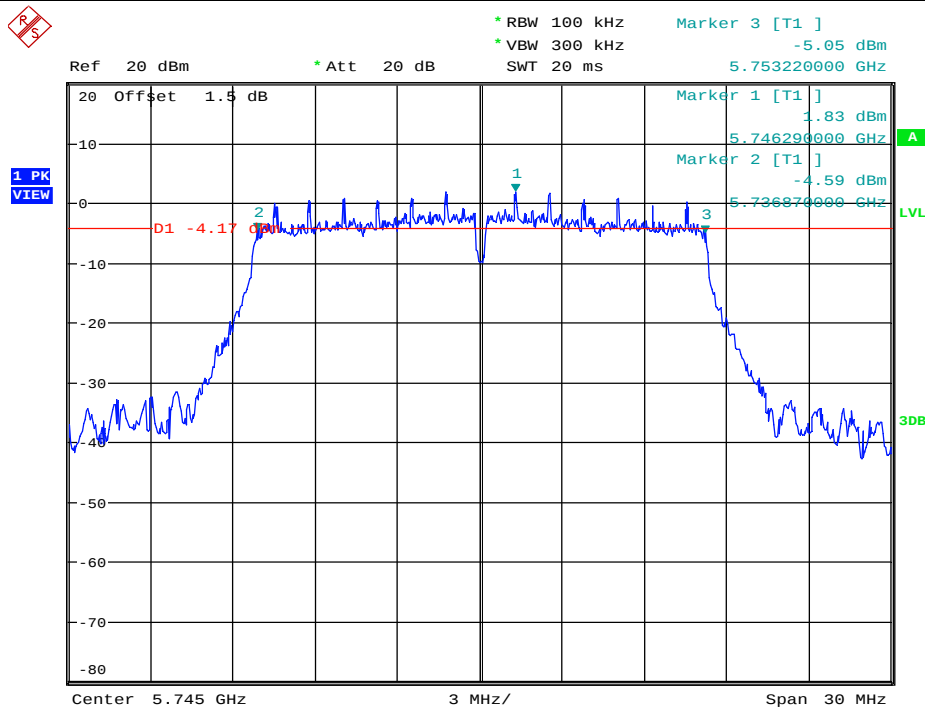
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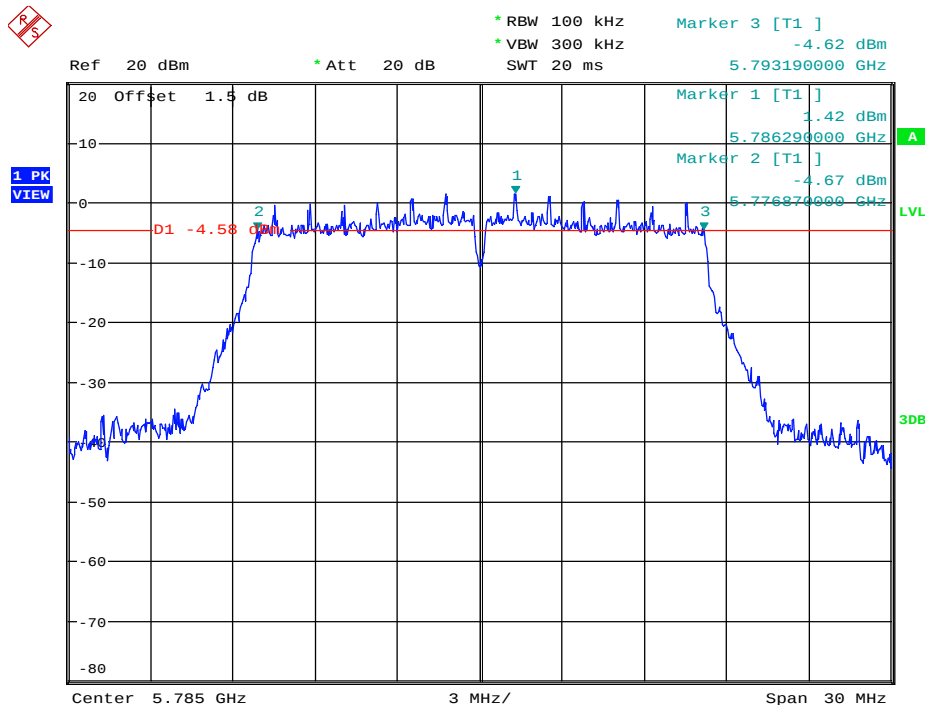
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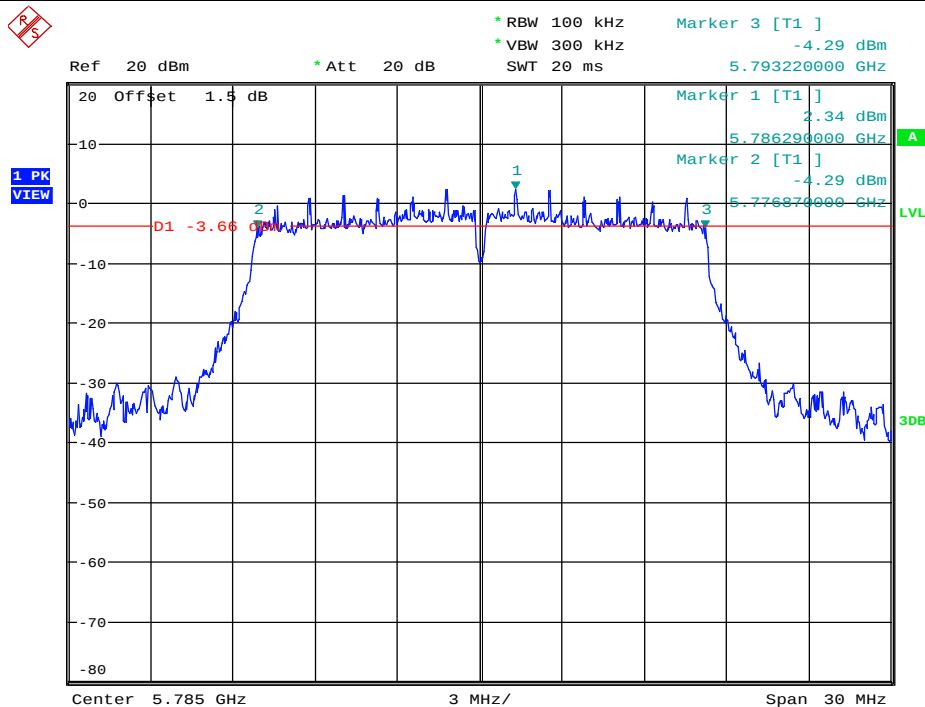
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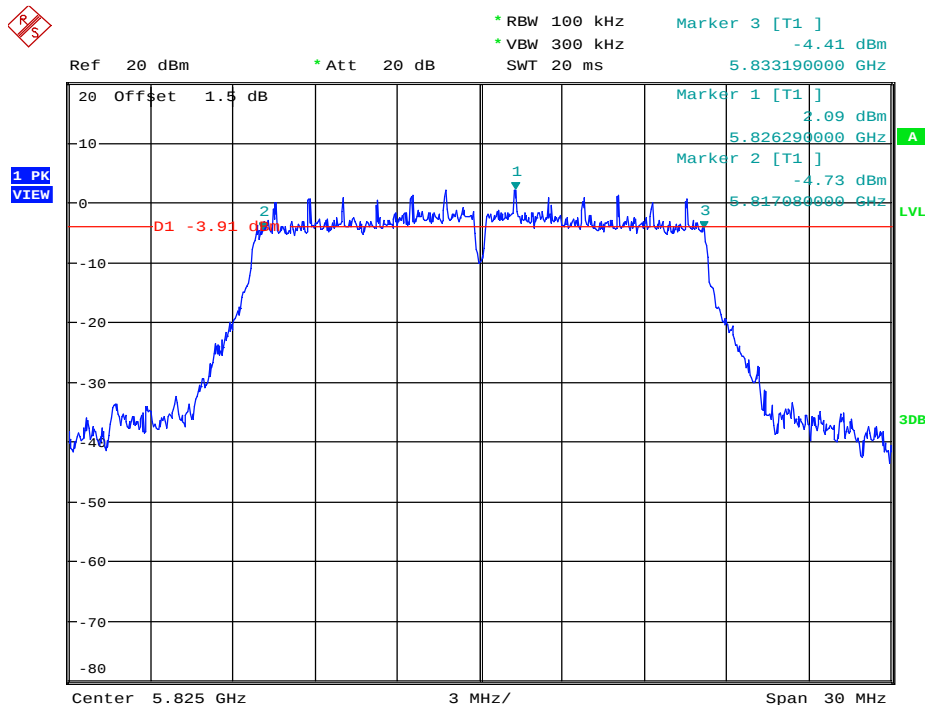
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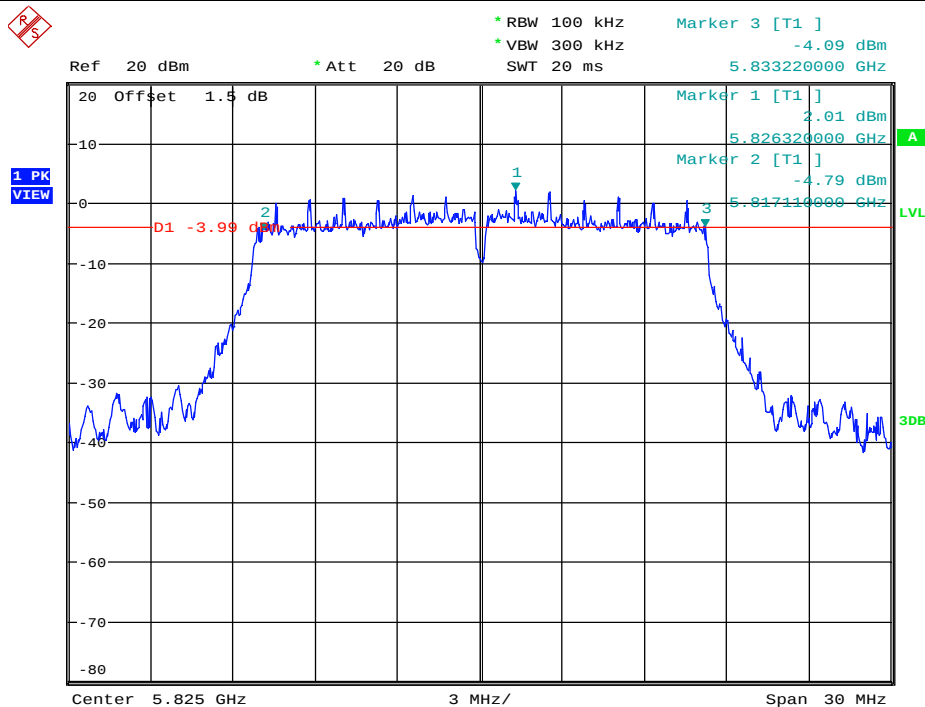
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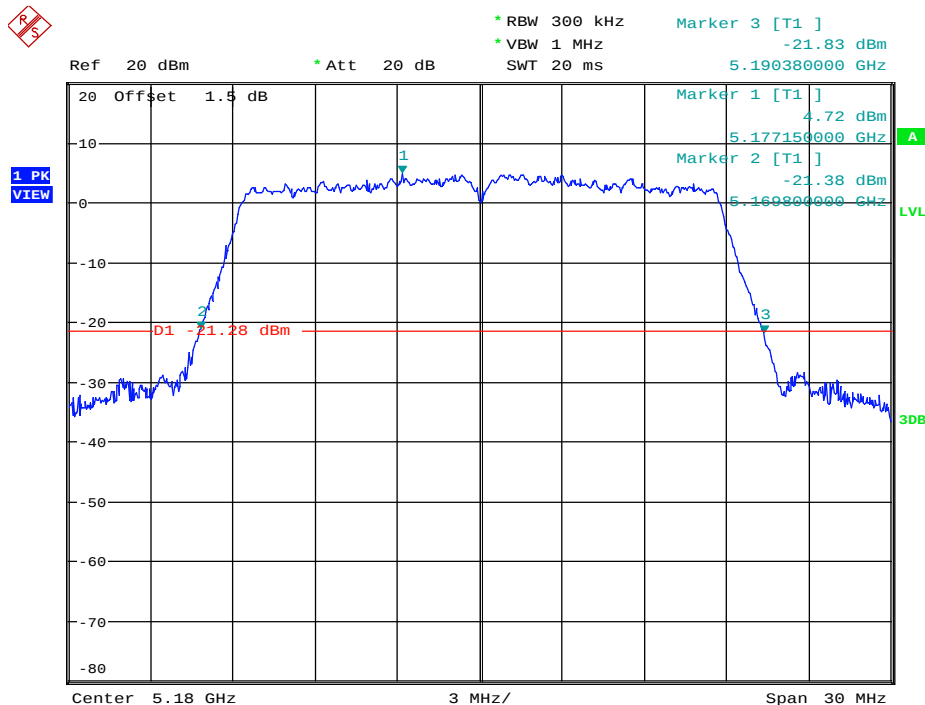


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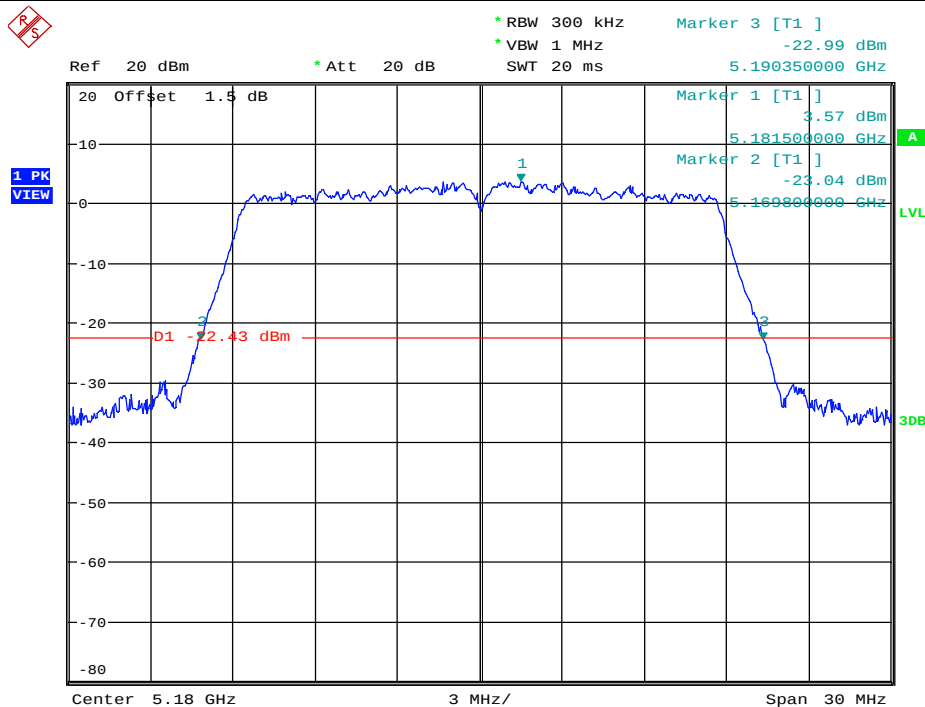


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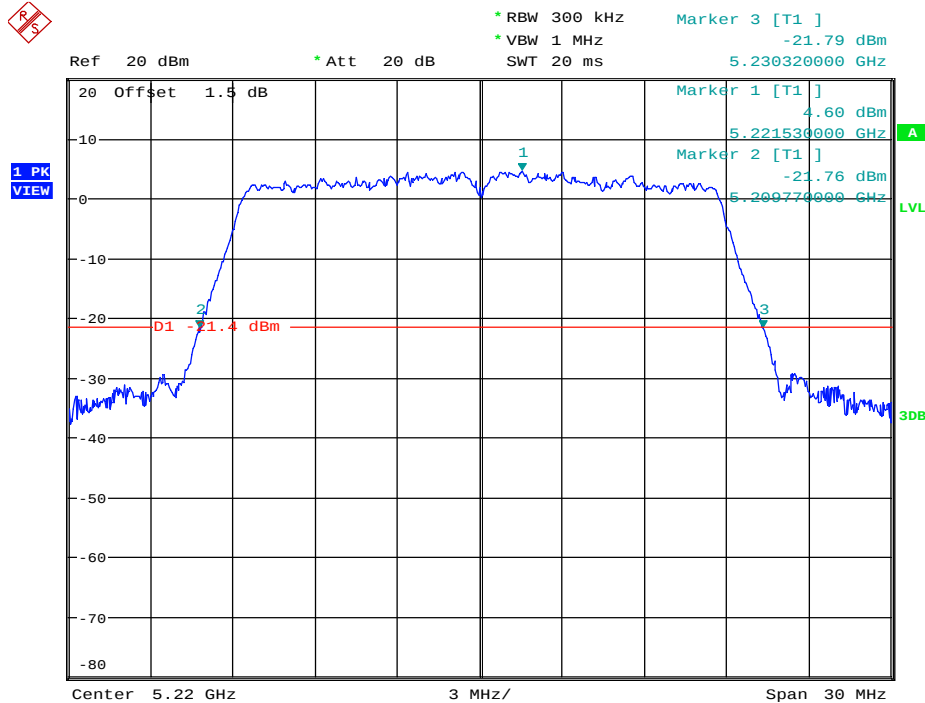
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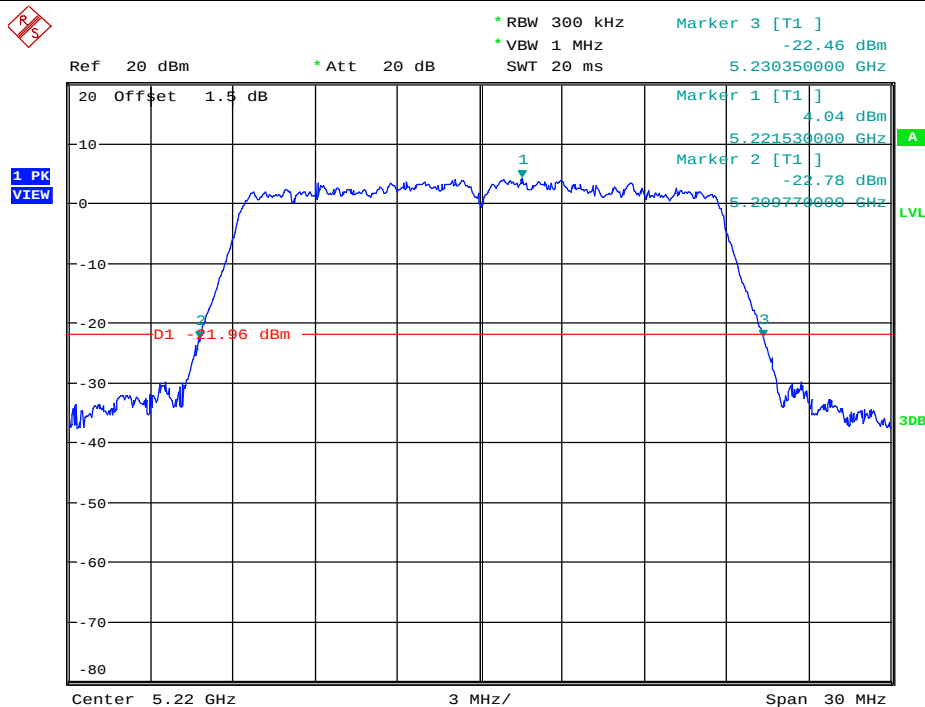
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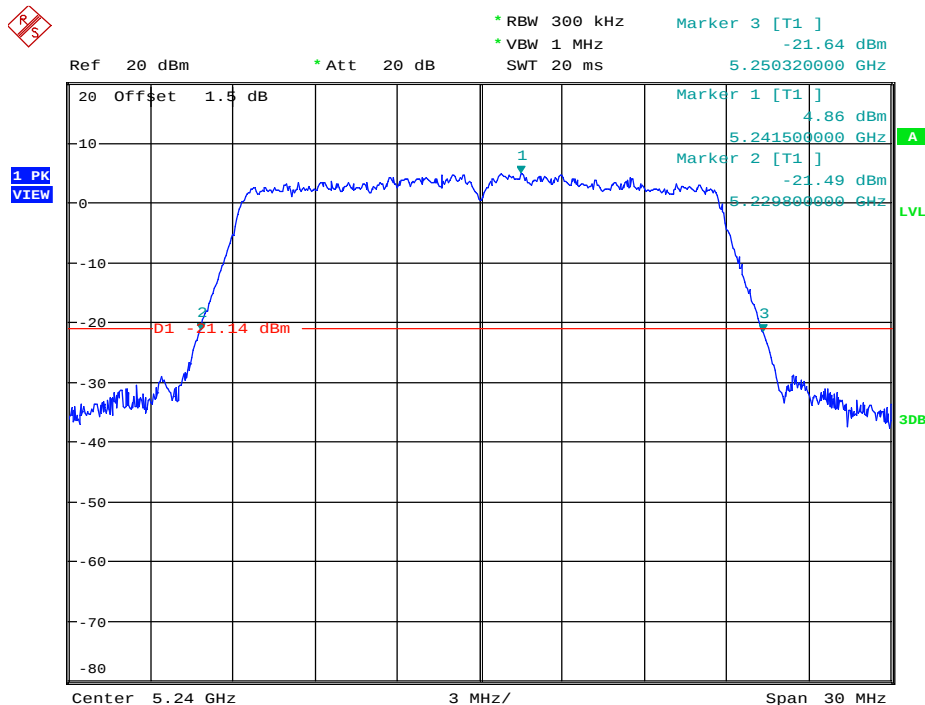


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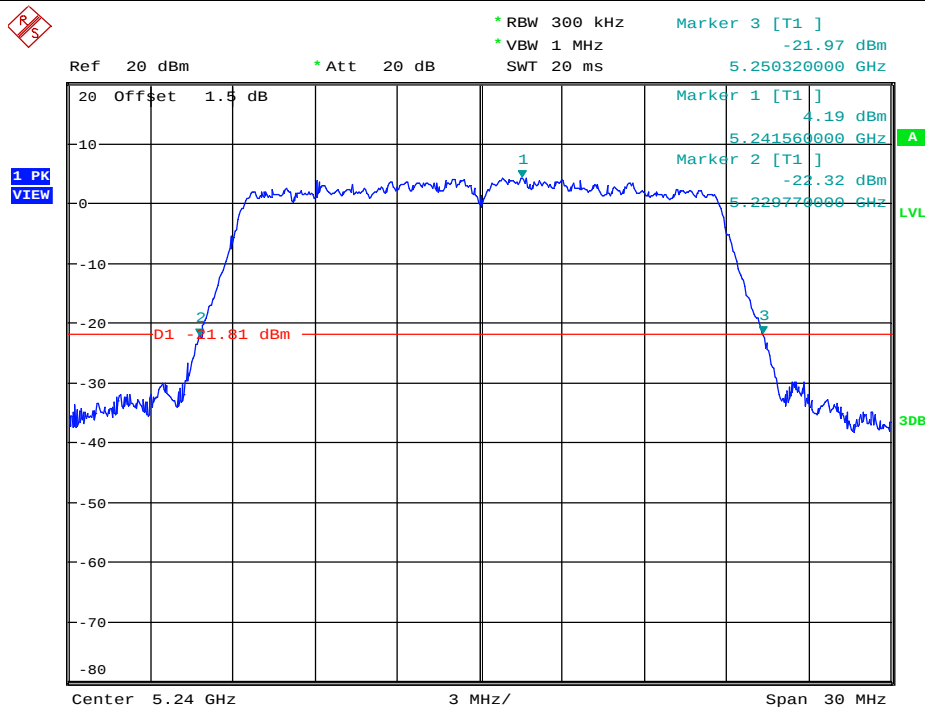


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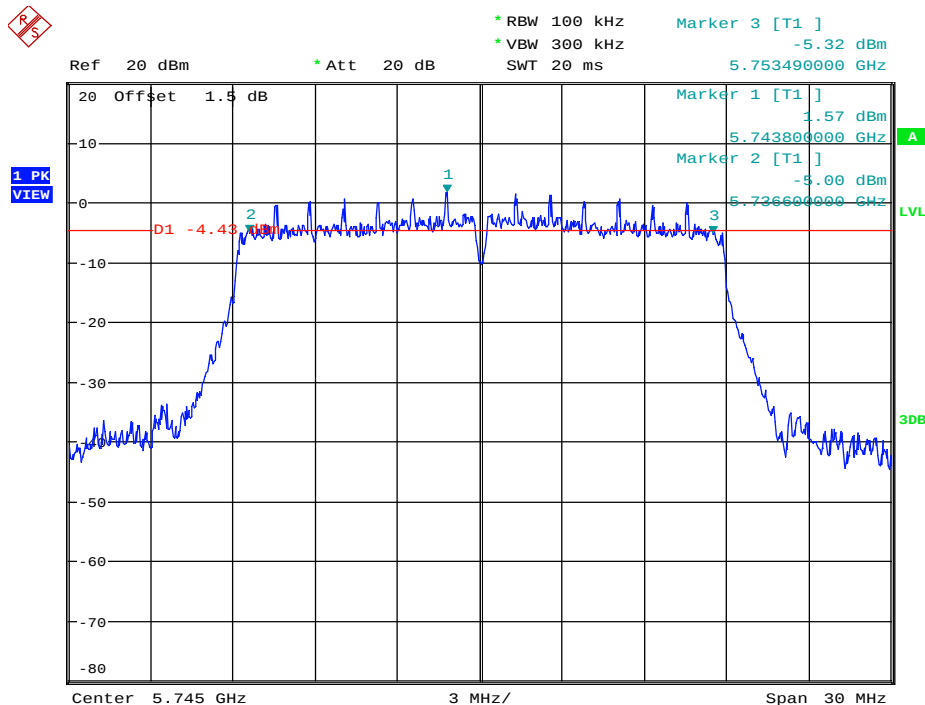
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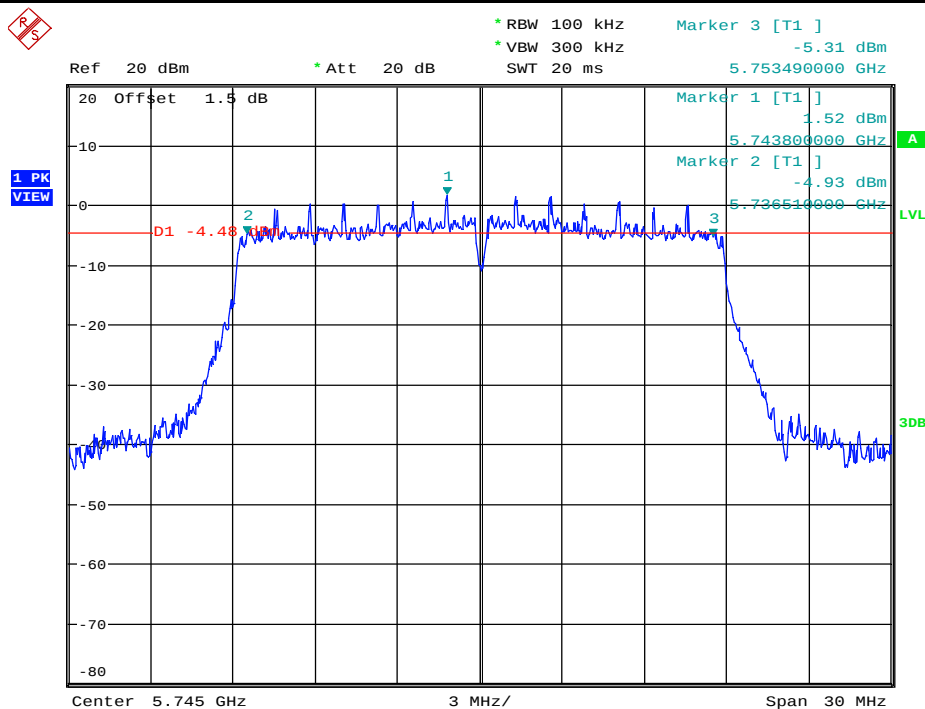
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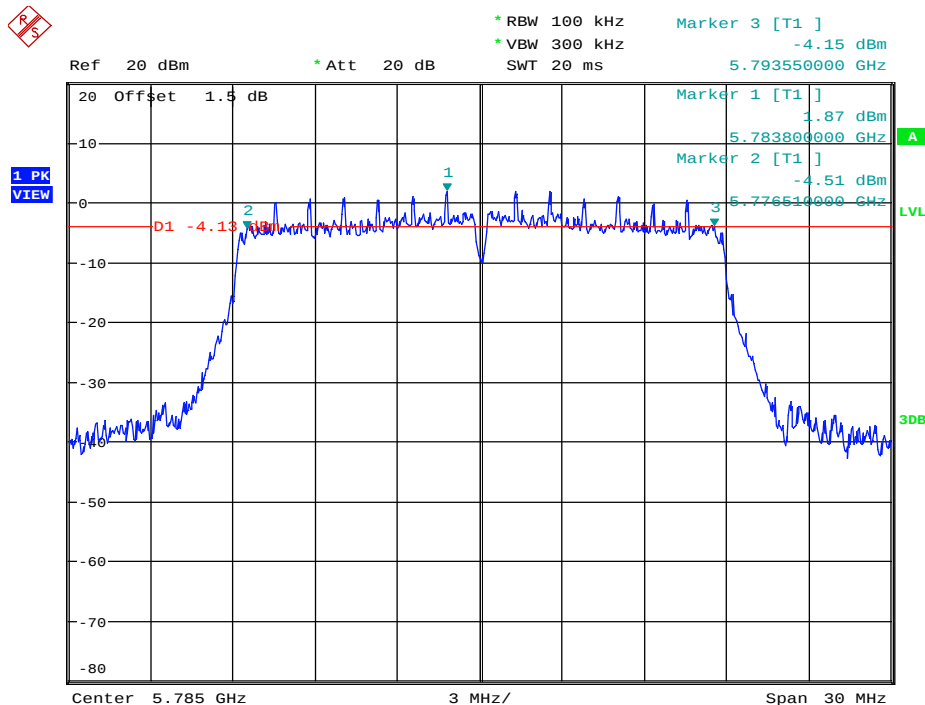


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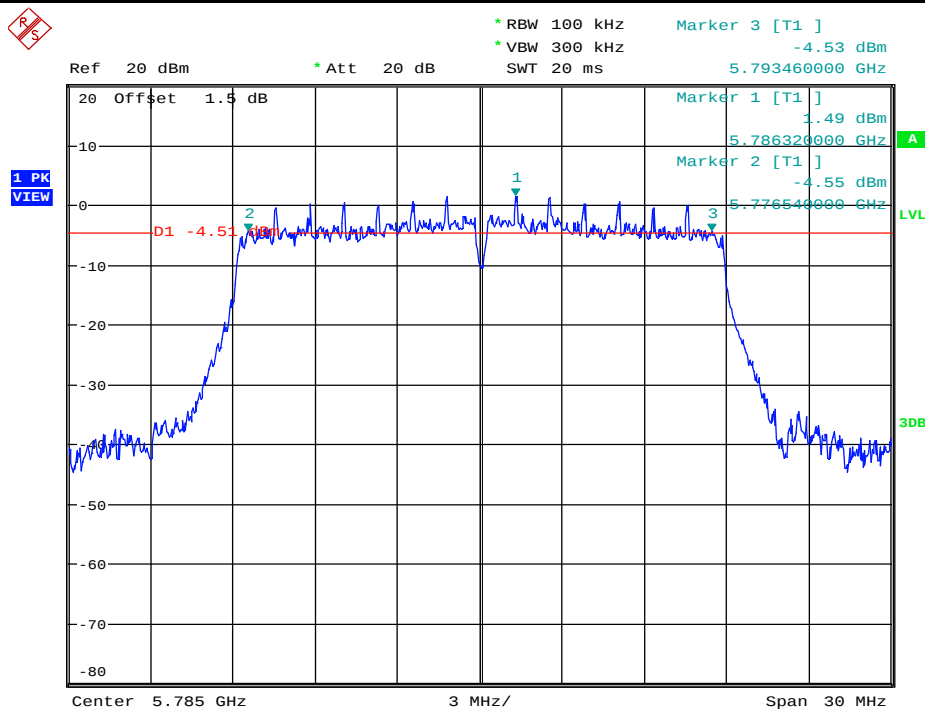


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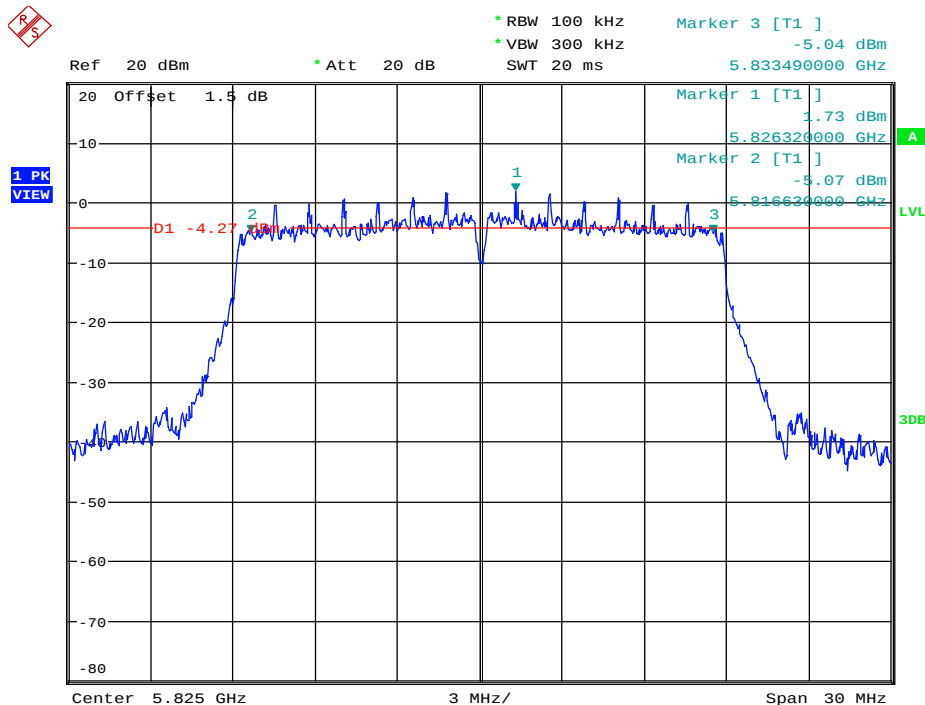
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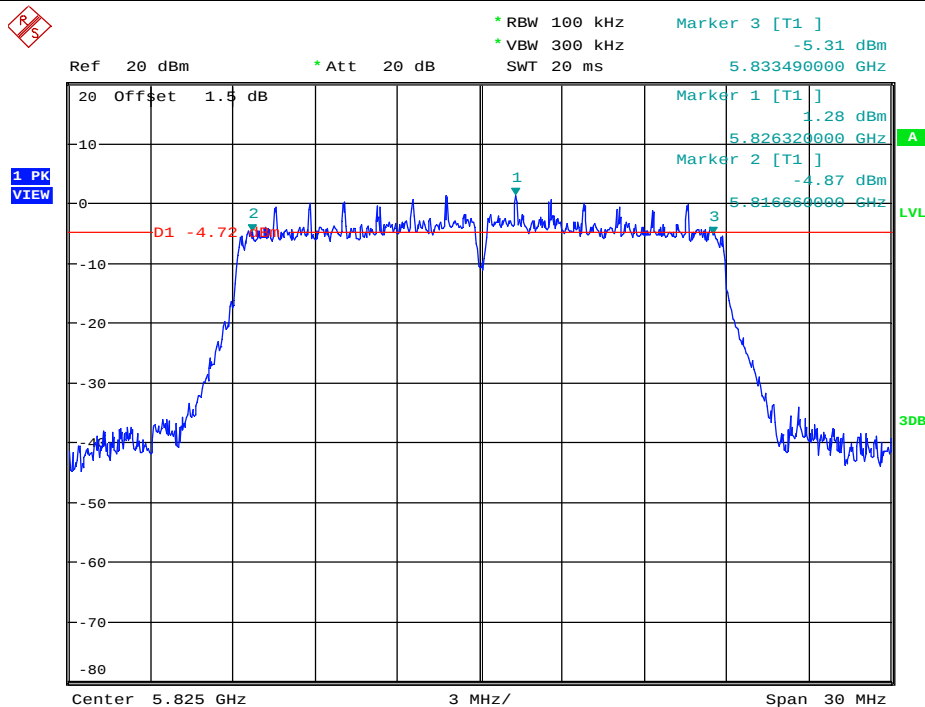
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Emission Bandwidth Measurement_11N20_5825_Ant5

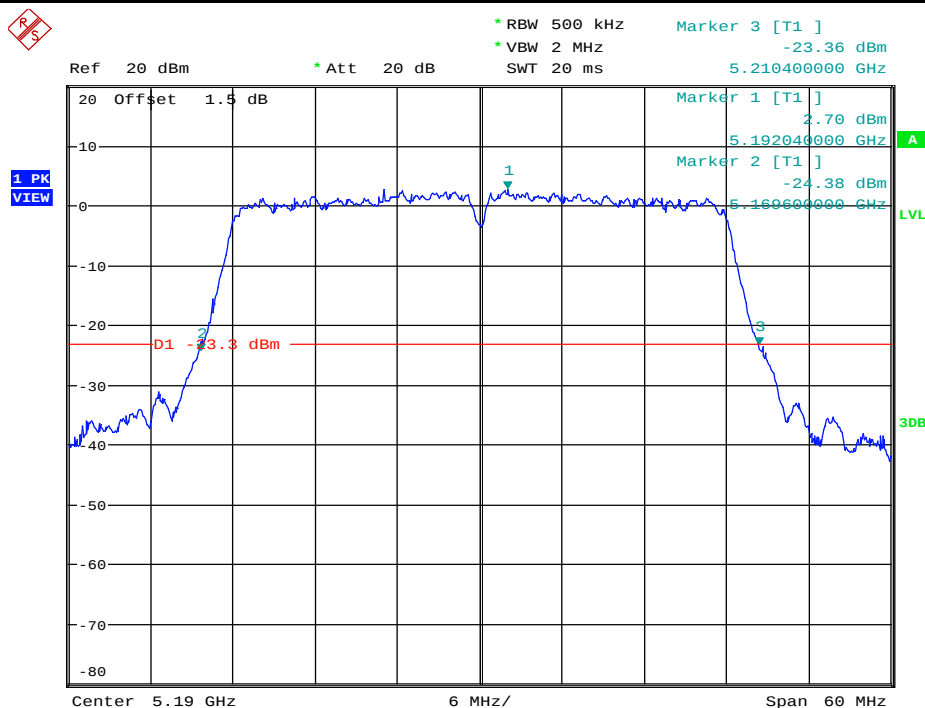


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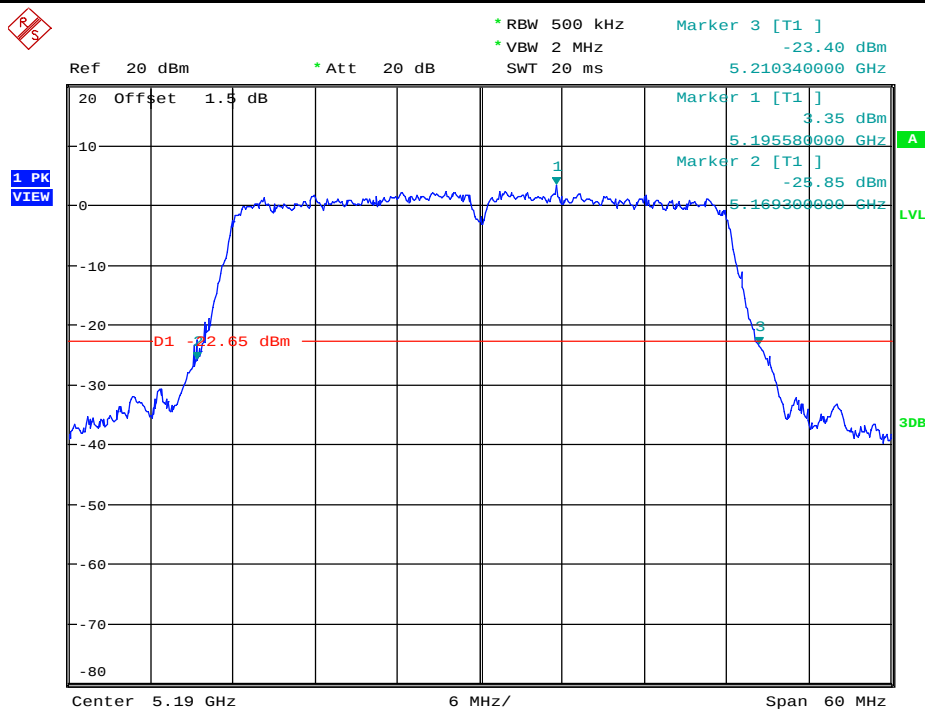


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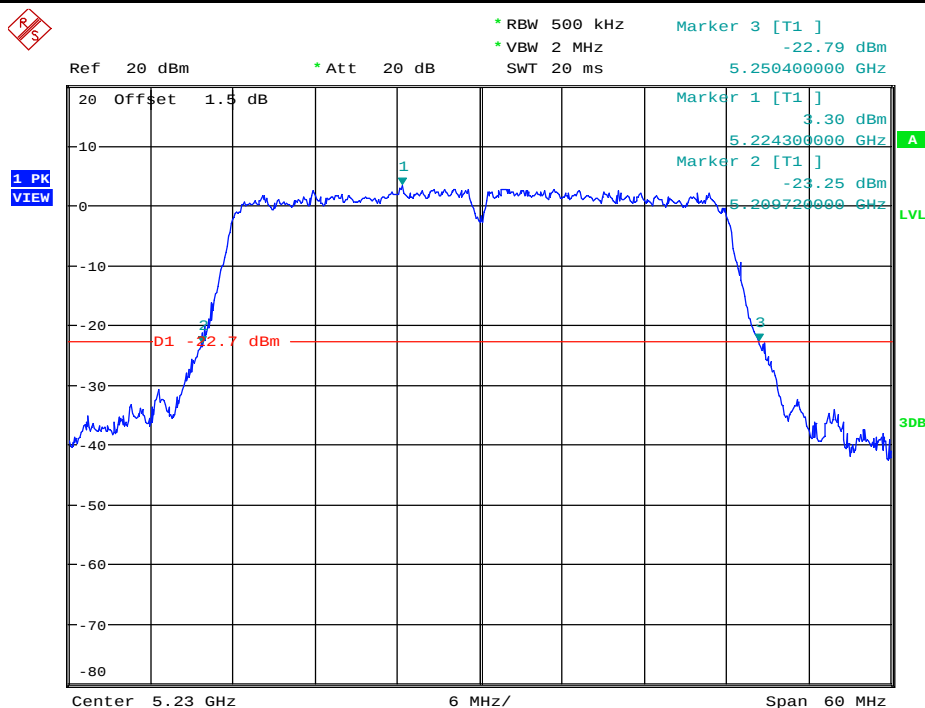
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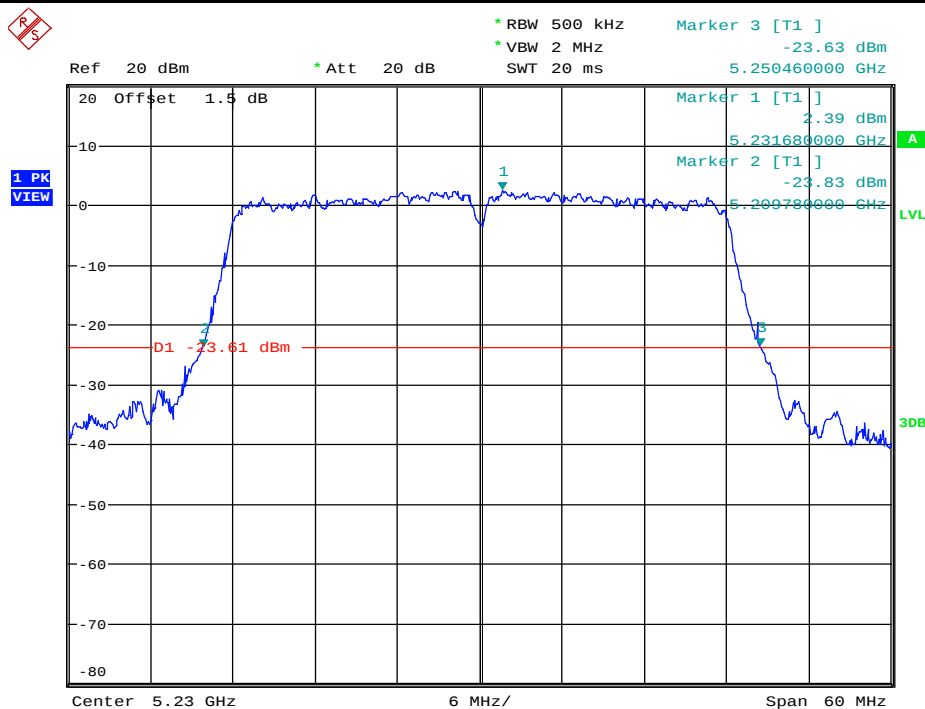
Emission Bandwidth Measurement_11N40_5190_Ant6



Emission Bandwidth Measurement_11N40_5230_Ant5

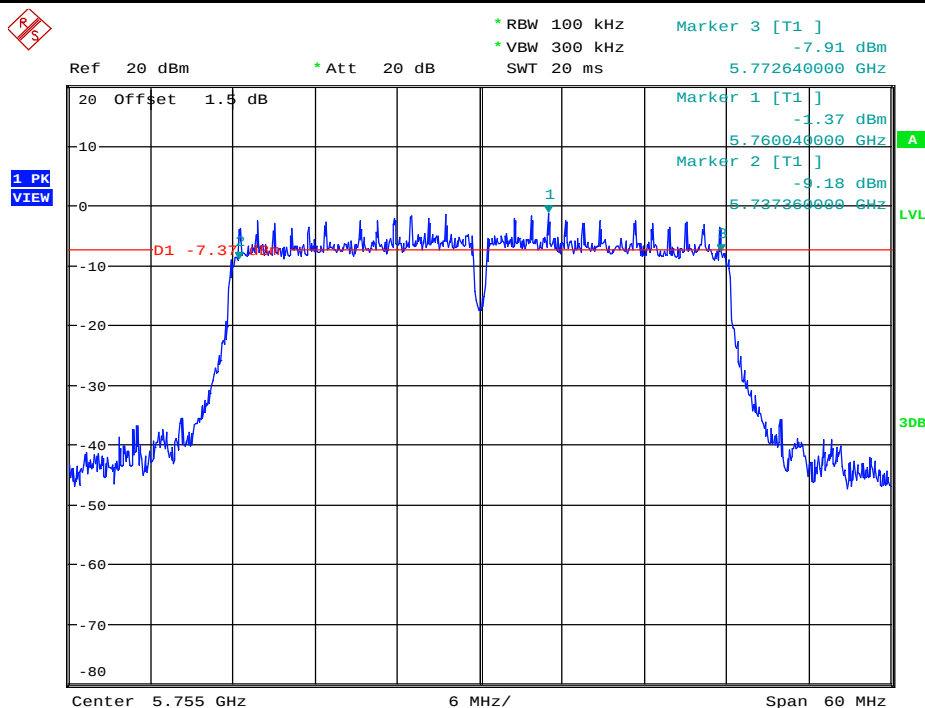


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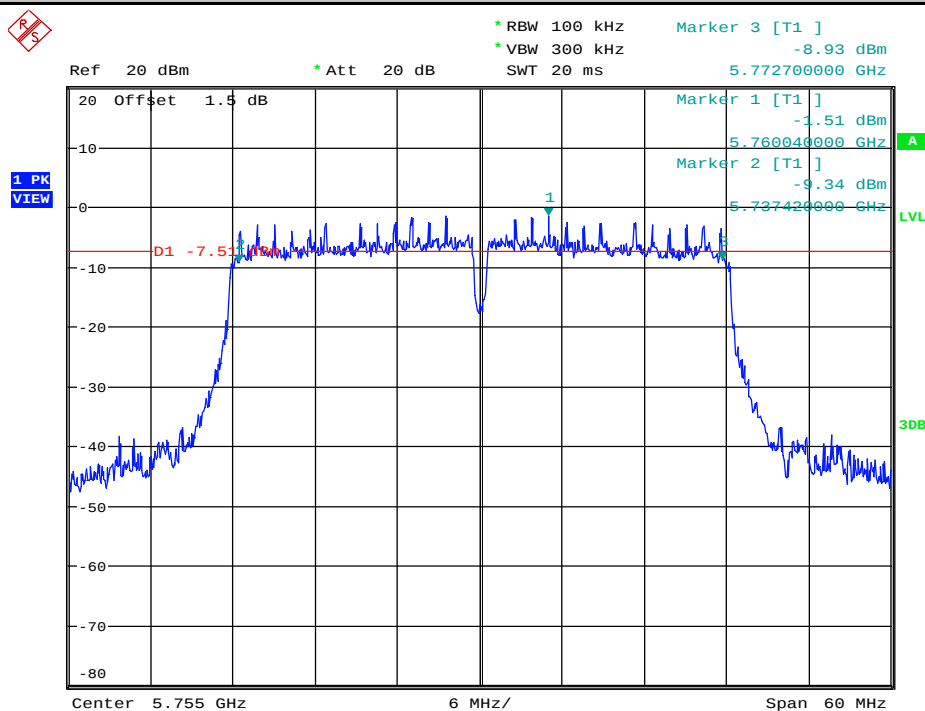


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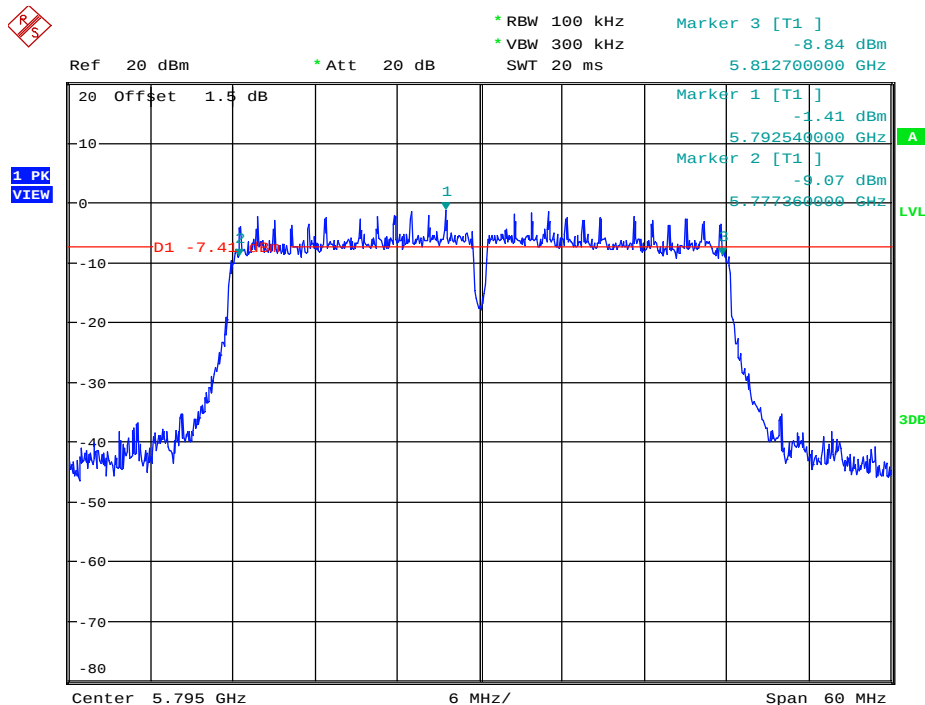
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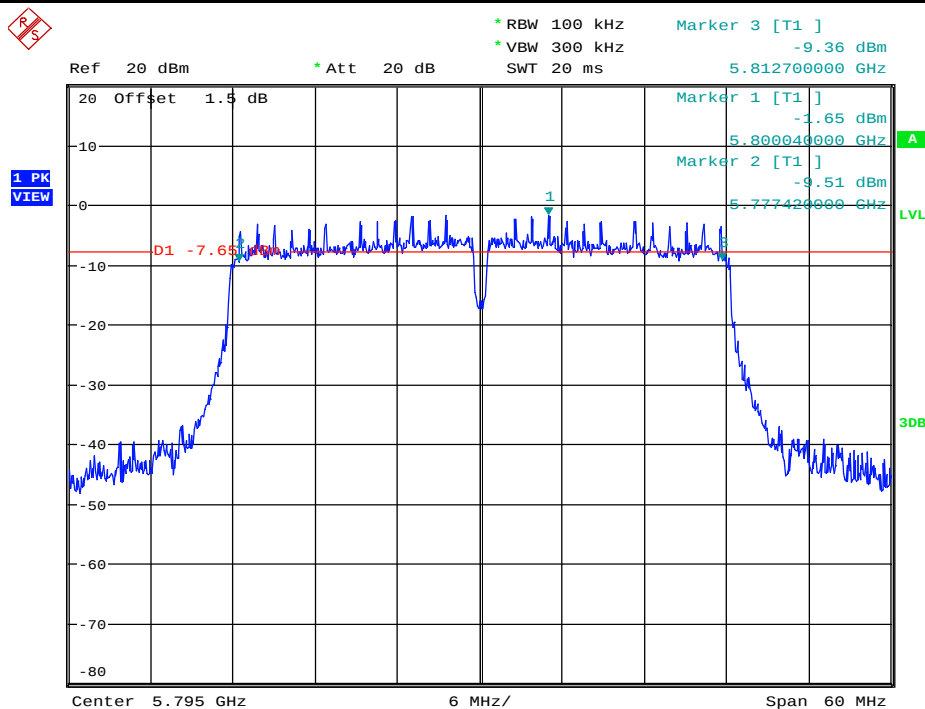
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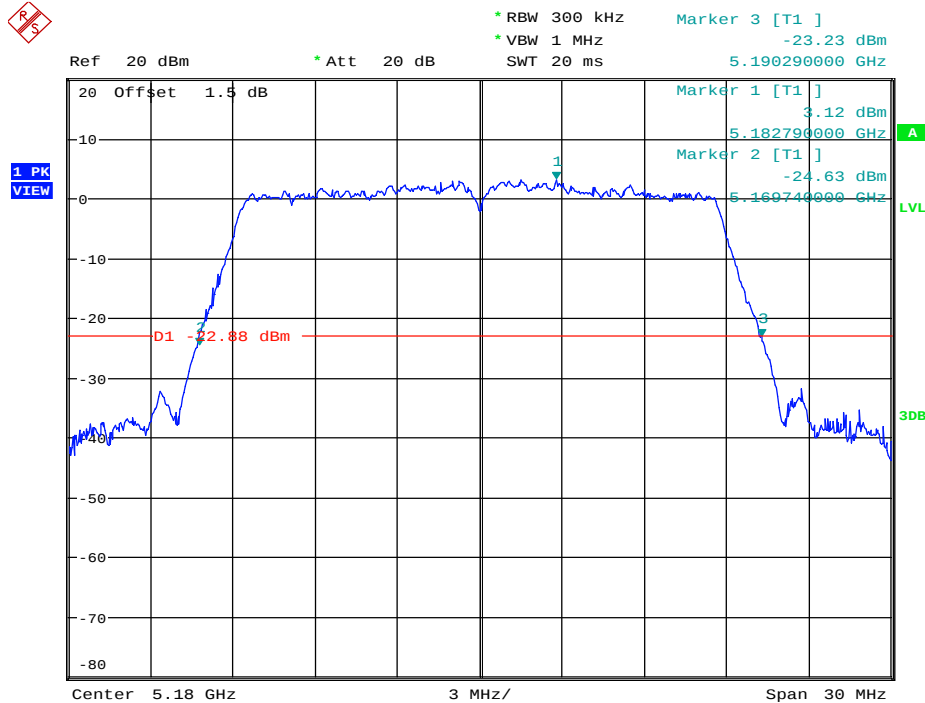
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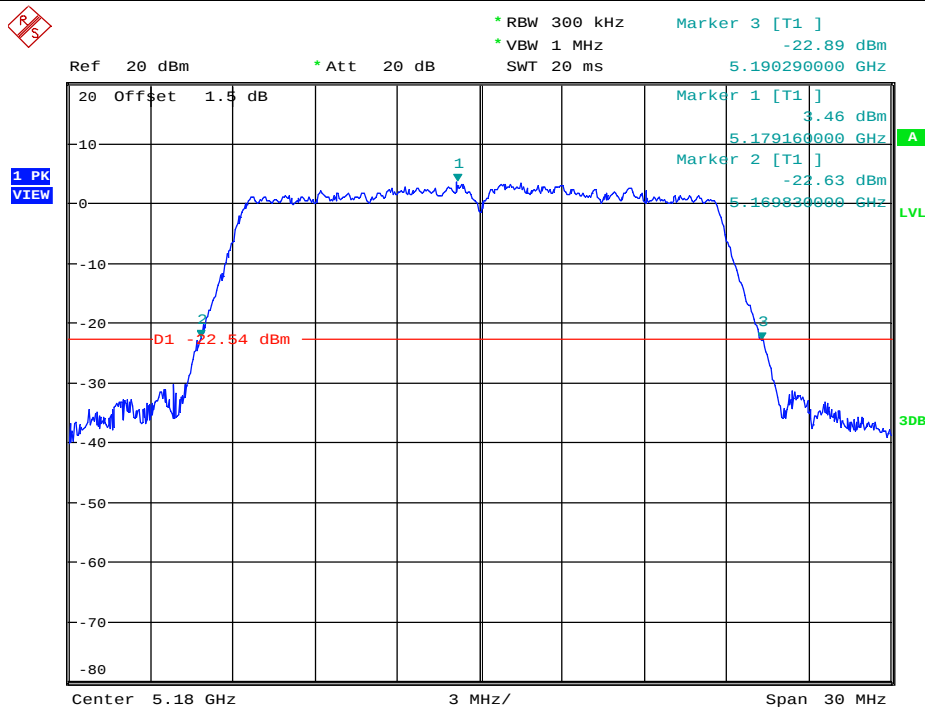
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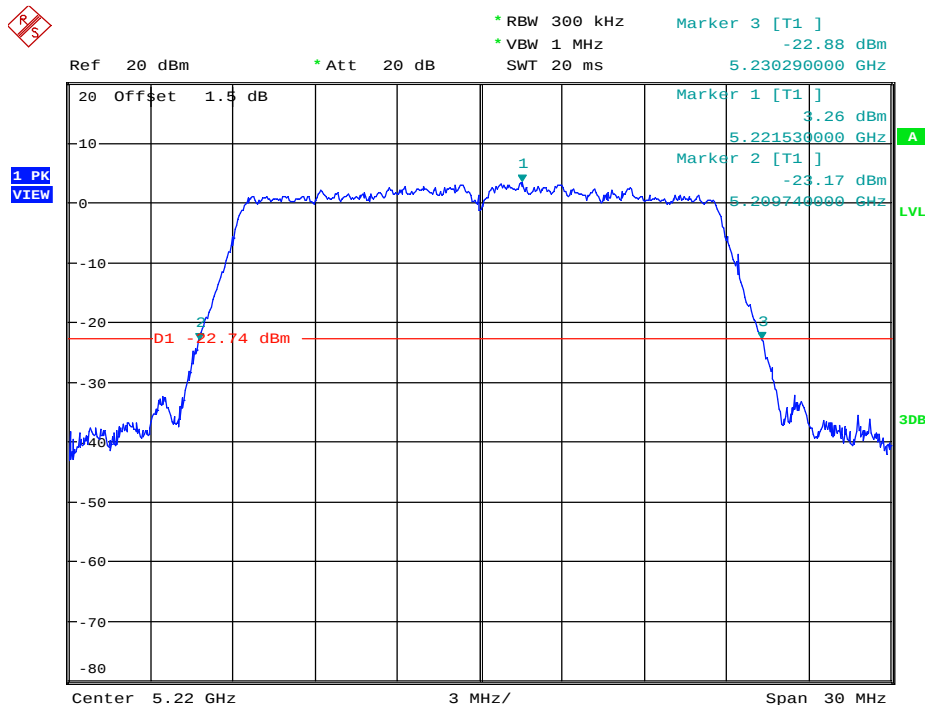
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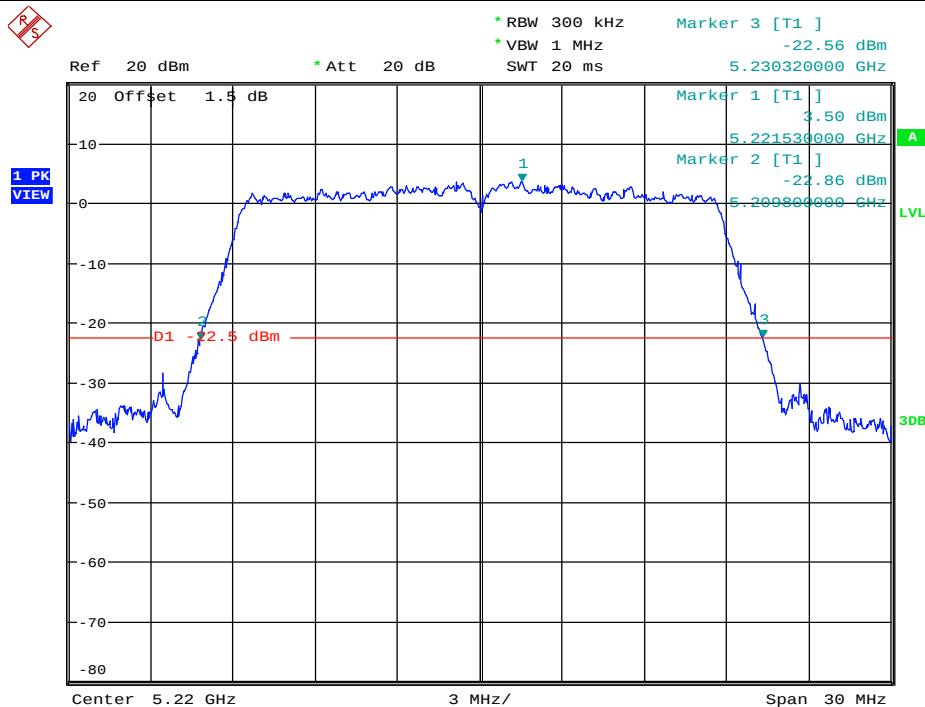
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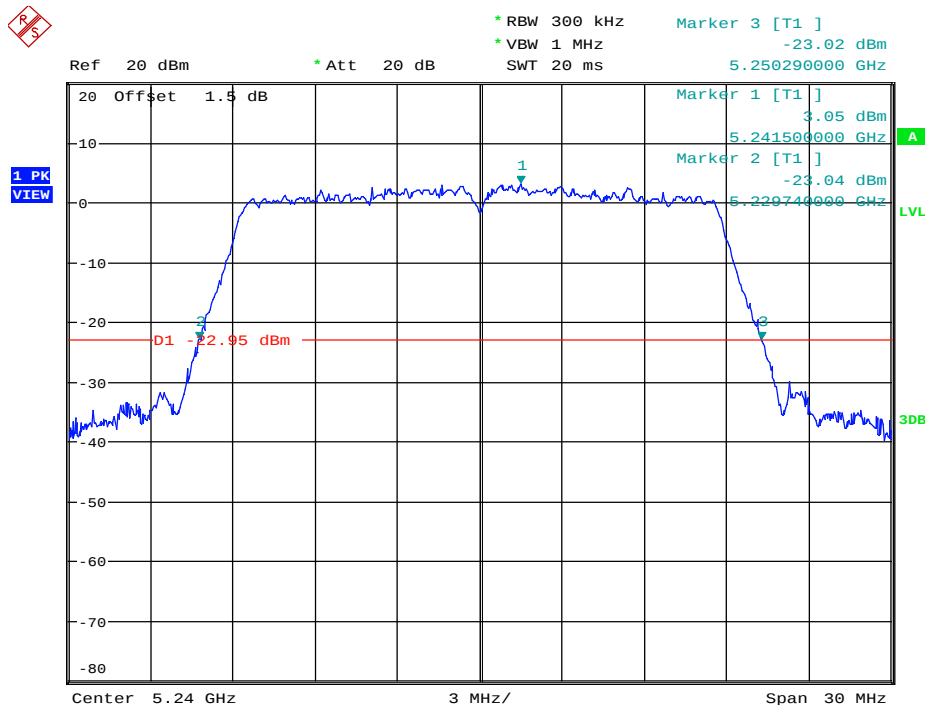


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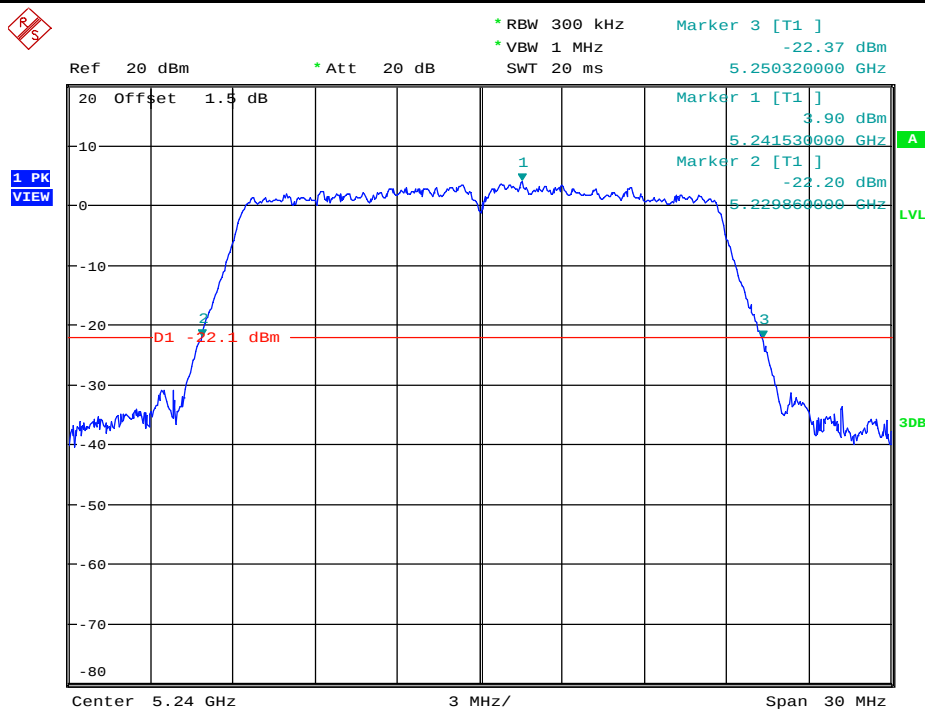


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Emission Bandwidth Measurement_11AC20_5240_Ant5

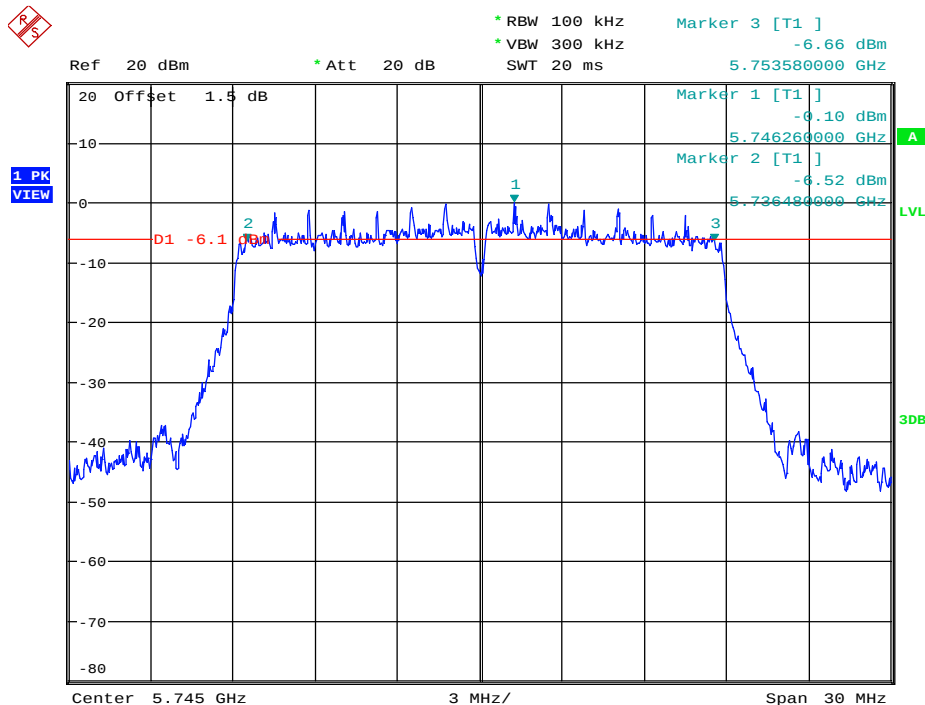


Emission Bandwidth Measurement_11AC20_5240_Ant6

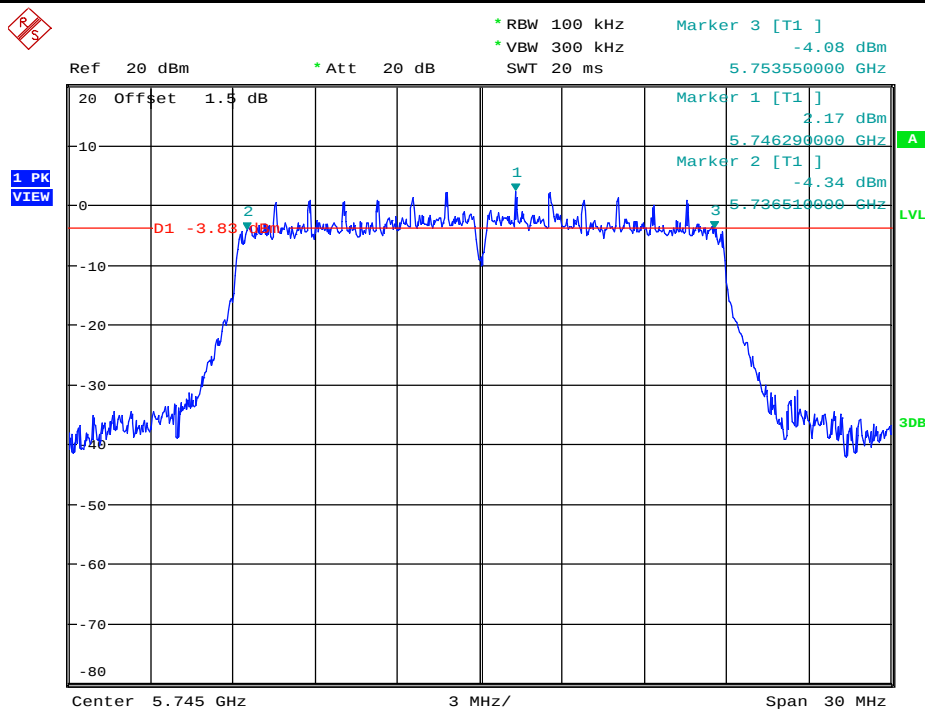


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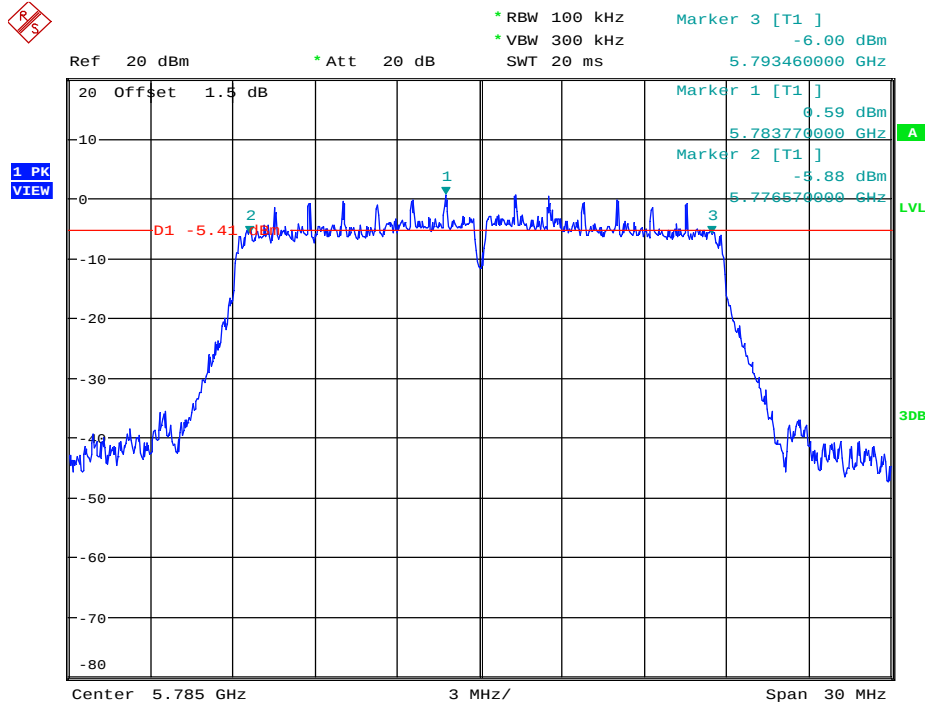


Emission Bandwidth Measurement_11AC20_5745_Ant6

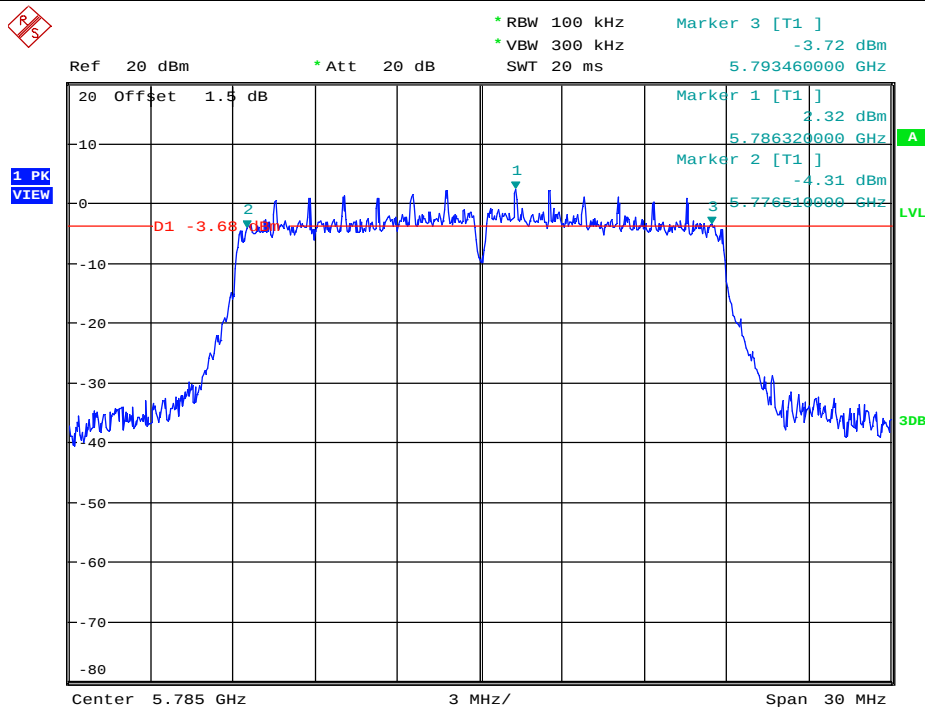


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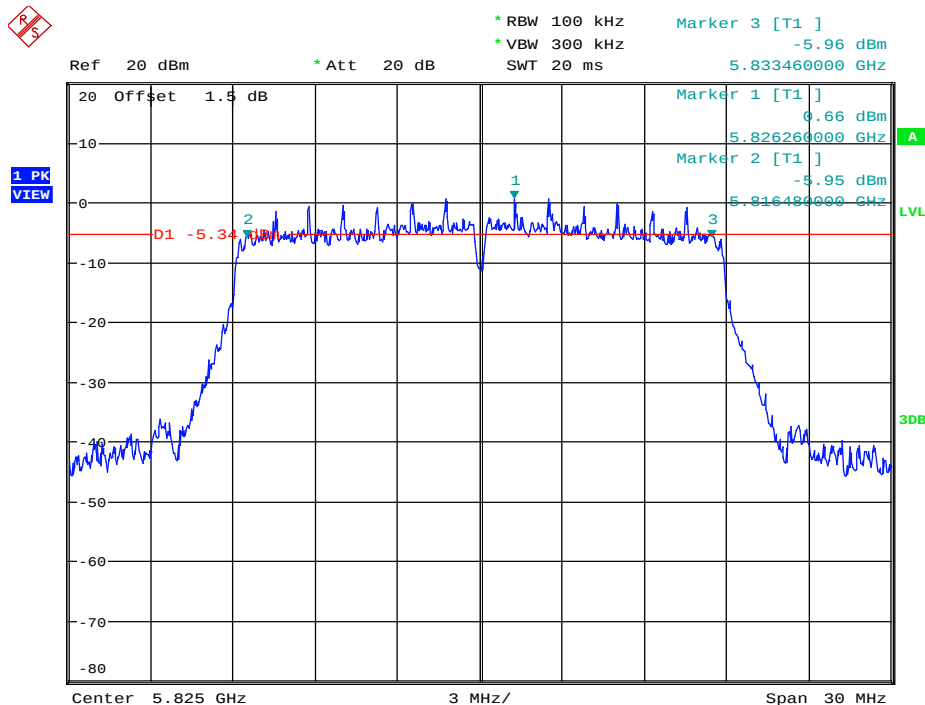
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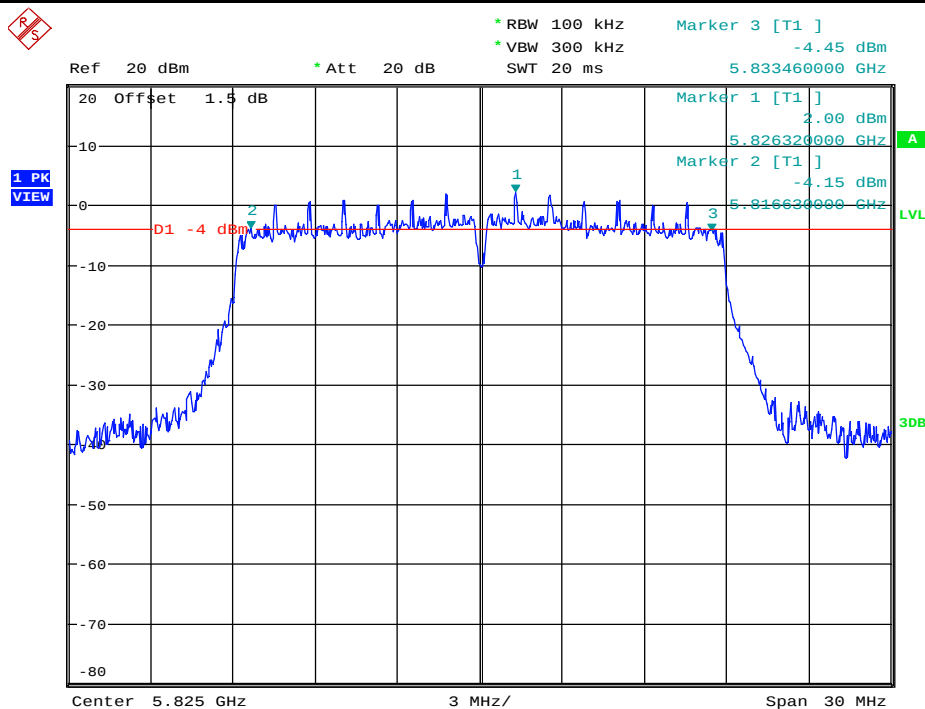
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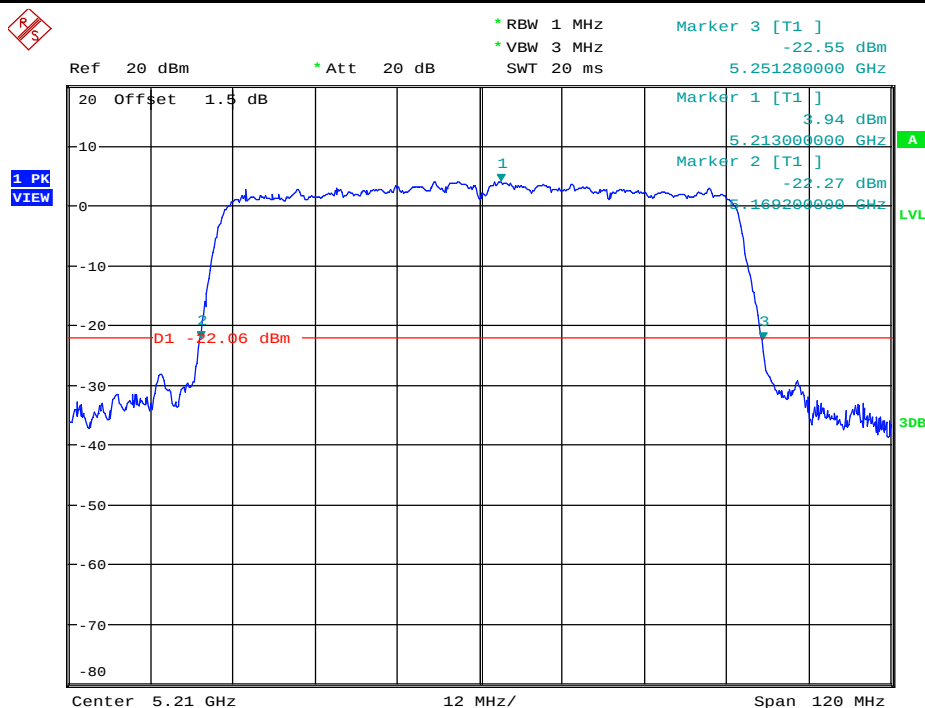
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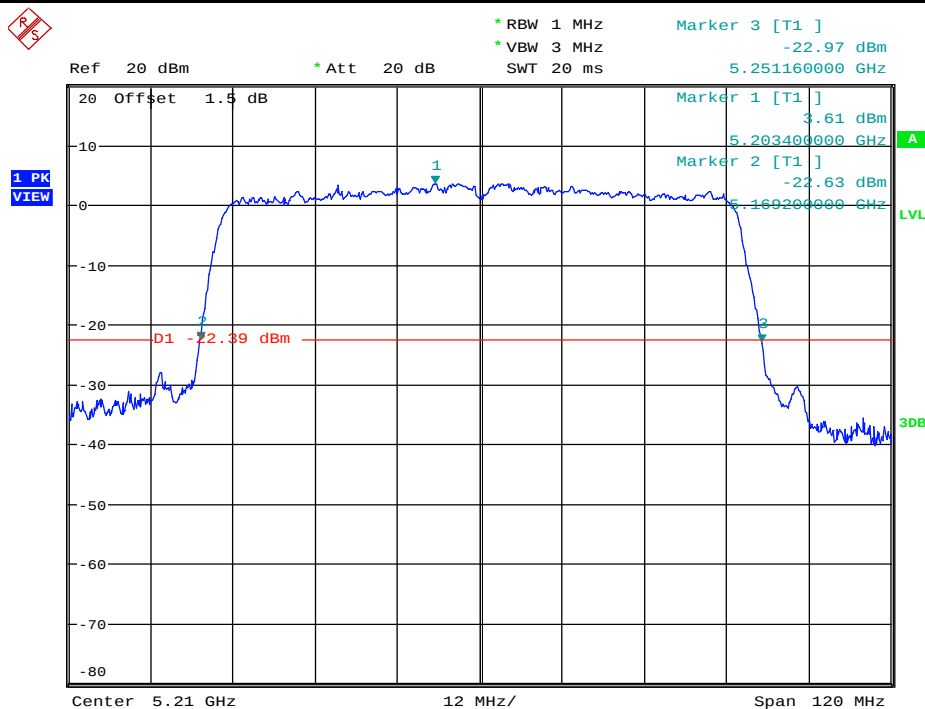
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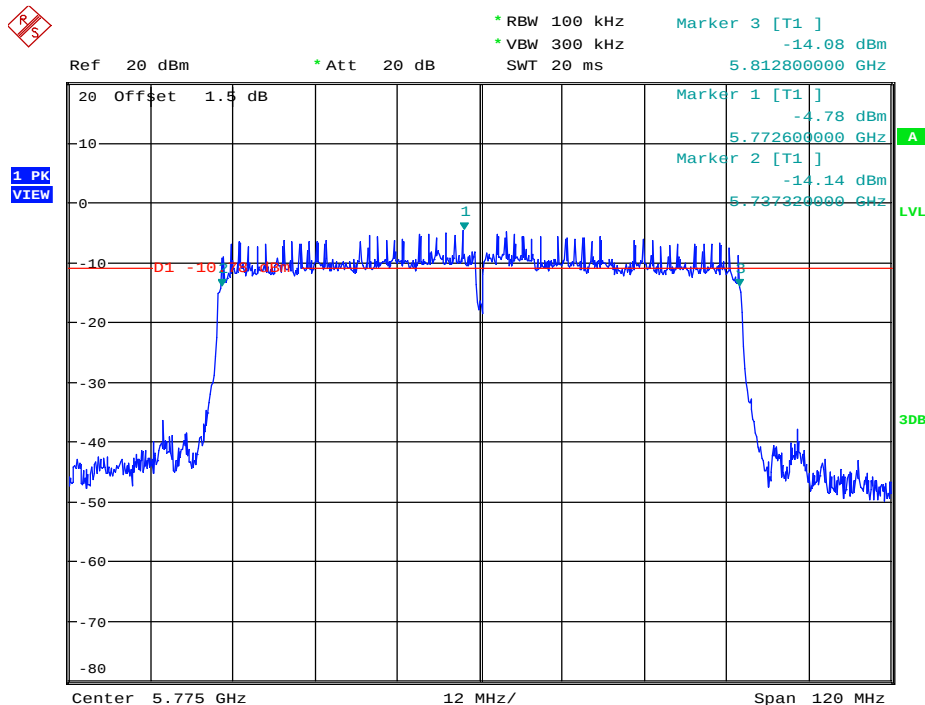
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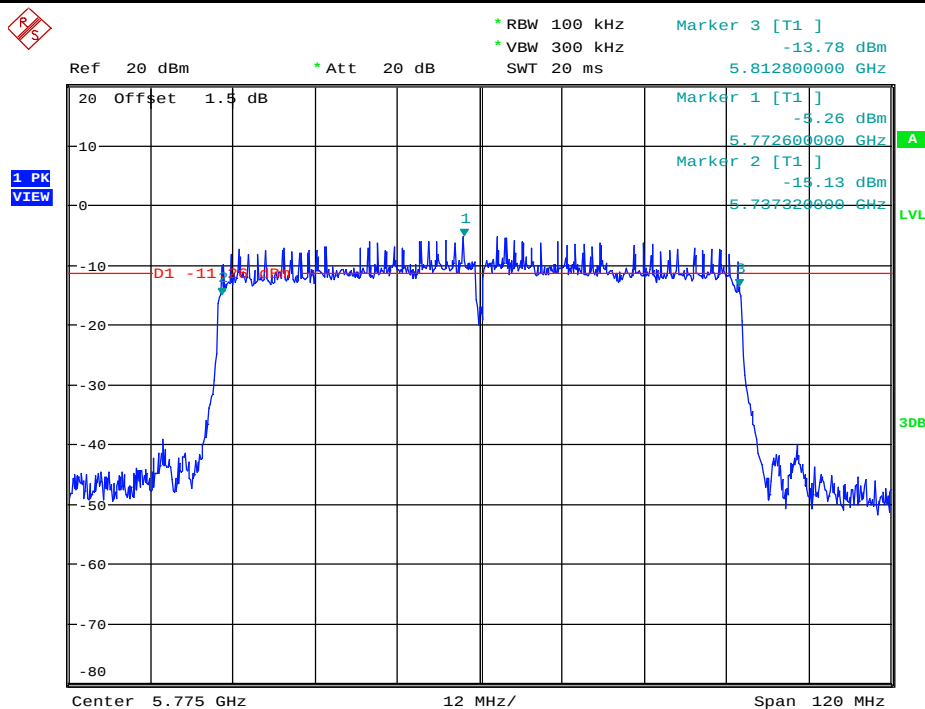
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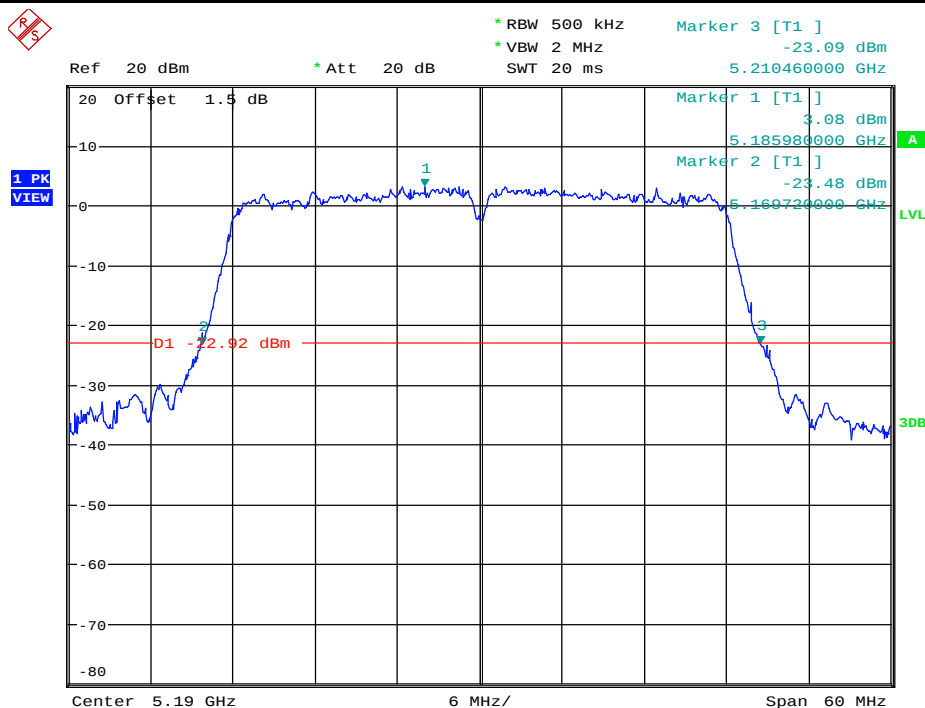
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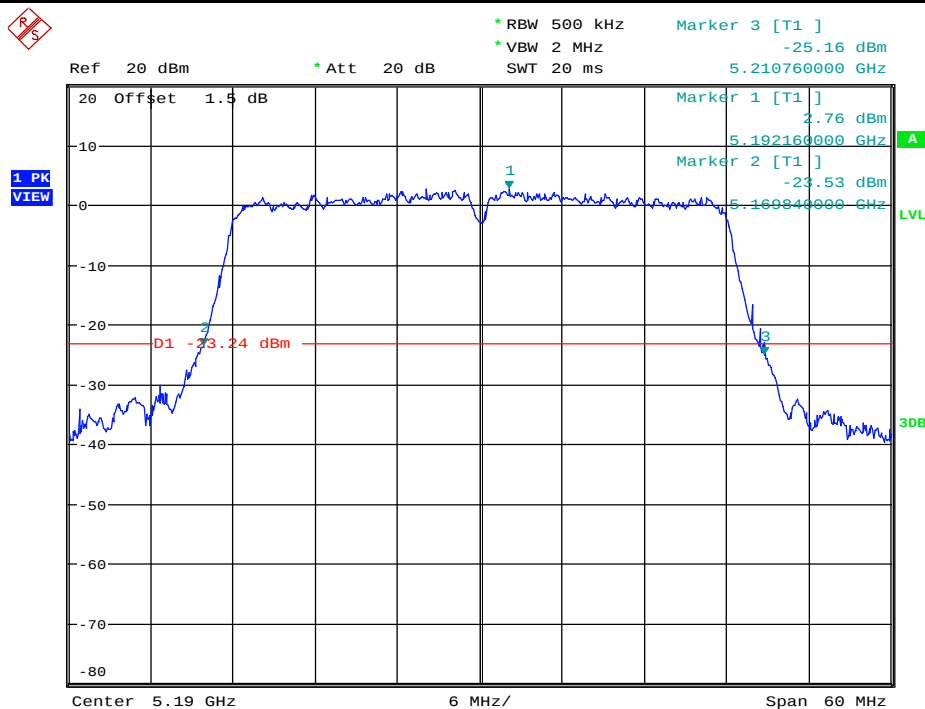
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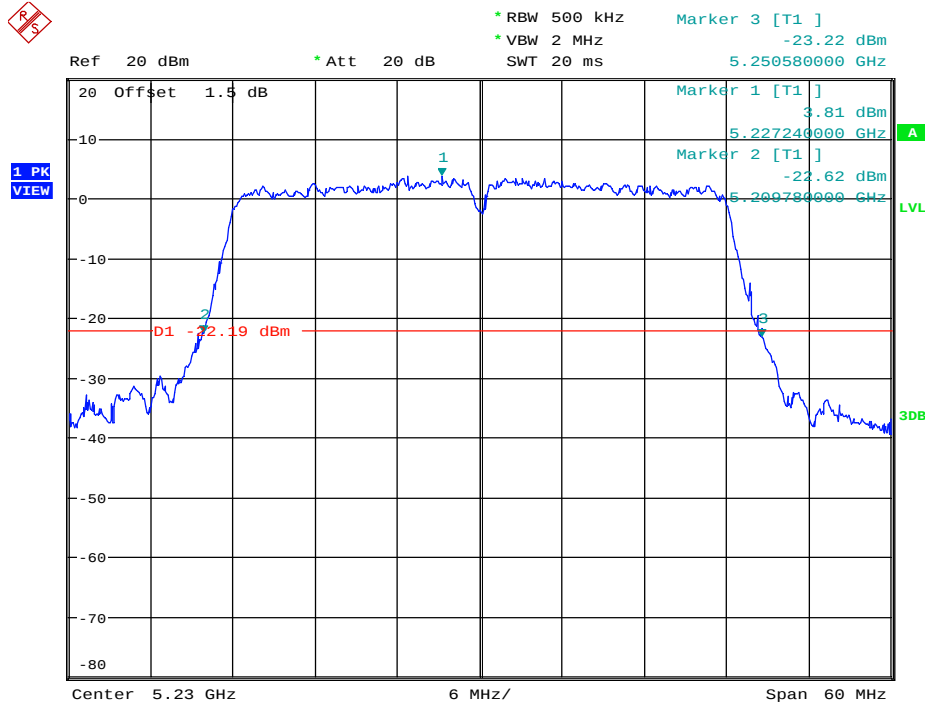
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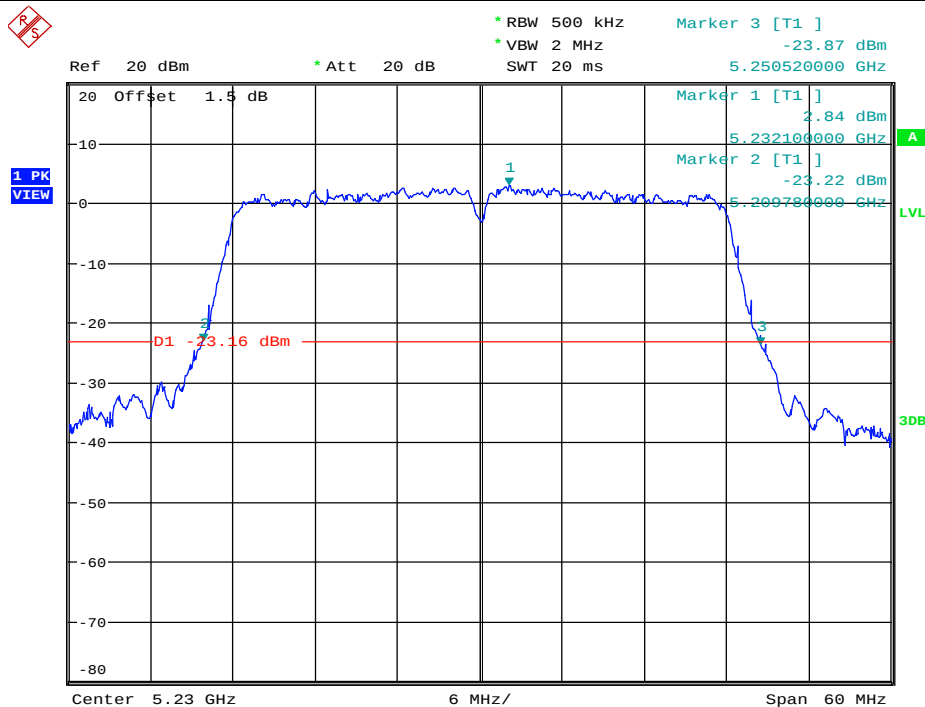
Emission Bandwidth Measurement_11AC40_5190_Ant6



Emission Bandwidth Measurement_11AC40_5230_Ant5



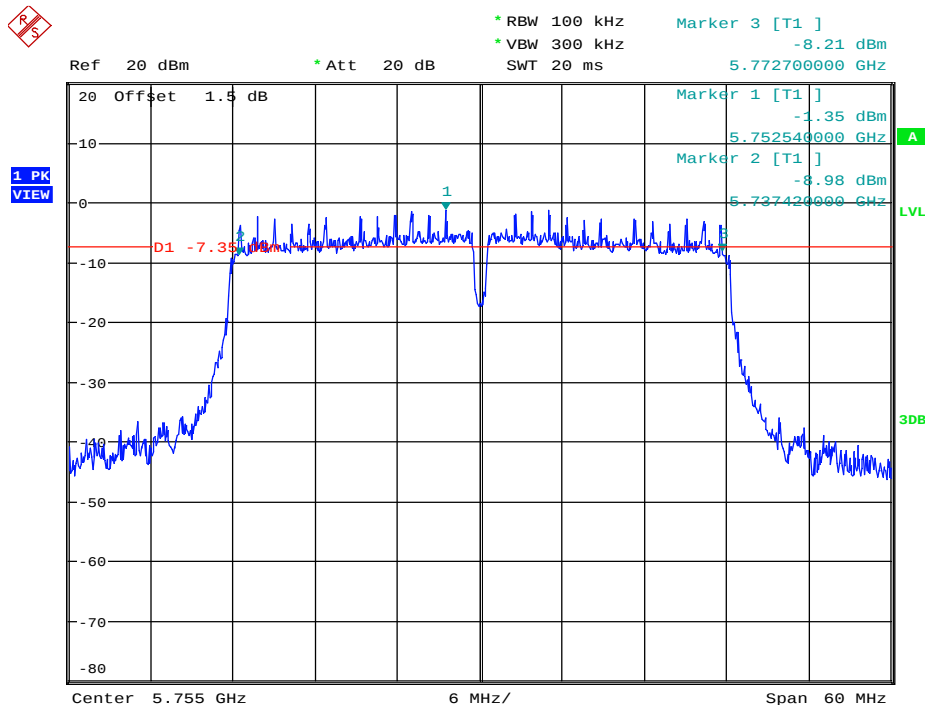
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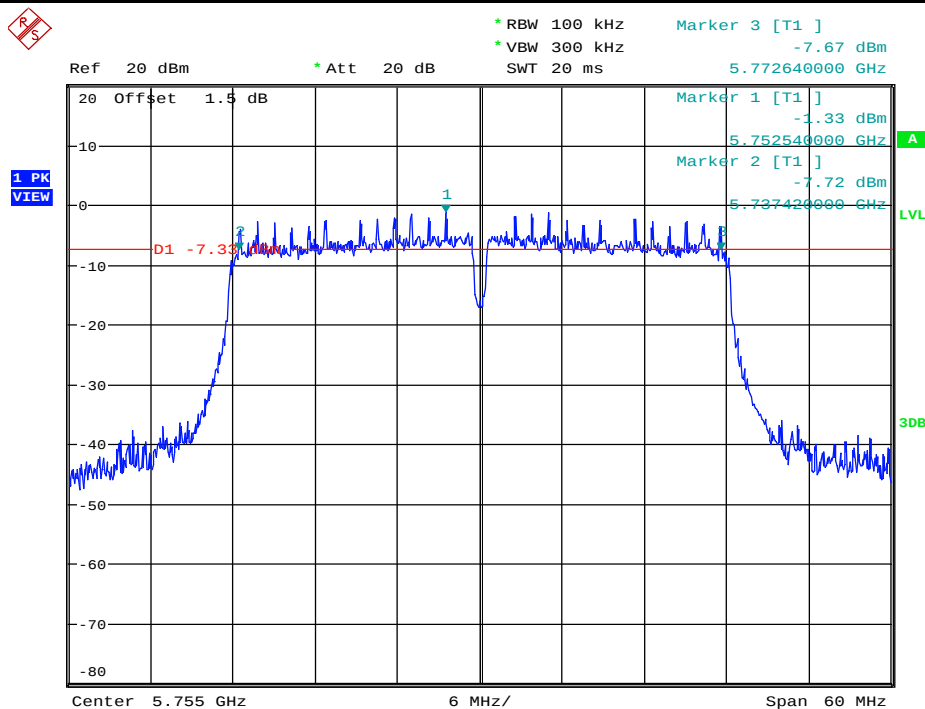
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Emission Bandwidth Measurement_11AC40_5755_Ant5

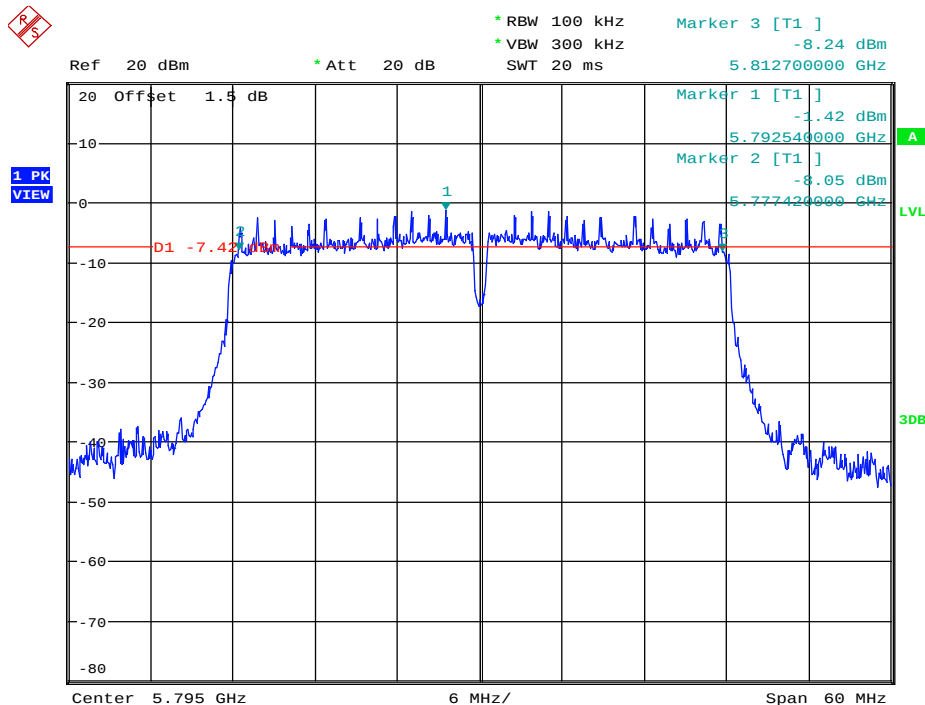


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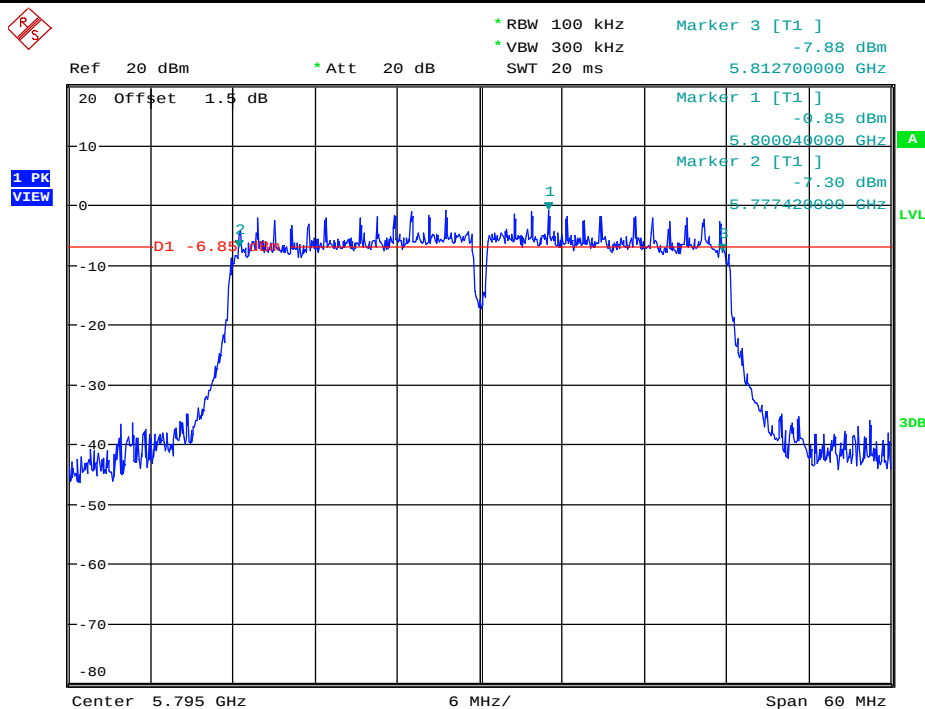


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Emission Bandwidth Measurement_11AC40_5795_Ant5



Emission Bandwidth Measurement_11AC40_5795_Ant6



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2.Occupied Bandwidth Measurement

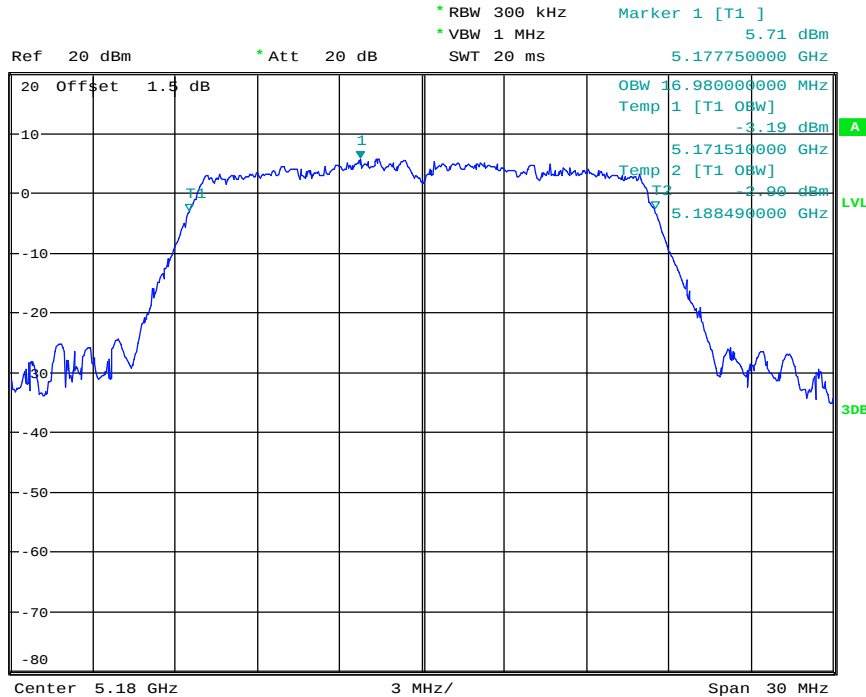
Test Mode	Test Channel	Ant	OBW[MHz]	Limit[MHz]	Verdict
11A	5180	Ant5	16.980	---	PASS
11A	5180	Ant6	16.980	---	PASS
11A	5220	Ant5	16.950	---	PASS
11A	5220	Ant6	16.980	---	PASS
11A	5240	Ant5	16.980	---	PASS
11A	5240	Ant6	16.950	---	PASS
11A	5745	Ant5	16.950	---	PASS
11A	5745	Ant6	16.980	---	PASS
11A	5785	Ant5	16.950	---	PASS
11A	5785	Ant6	17.010	---	PASS
11A	5825	Ant5	16.980	---	PASS
11A	5825	Ant6	16.980	---	PASS
11N20	5180	Ant5	17.730	---	PASS
11N20	5180	Ant6	17.730	---	PASS
11N20	5220	Ant5	17.730	---	PASS
11N20	5220	Ant6	17.730	---	PASS
11N20	5240	Ant5	17.730	---	PASS
11N20	5240	Ant6	17.730	---	PASS
11N20	5745	Ant5	17.730	---	PASS
11N20	5745	Ant6	17.730	---	PASS
11N20	5785	Ant5	17.730	---	PASS
11N20	5785	Ant6	17.730	---	PASS
11N20	5825	Ant5	17.730	---	PASS
11N20	5825	Ant6	17.730	---	PASS
11N40	5190	Ant5	36.180	---	PASS
11N40	5190	Ant6	36.240	---	PASS
11N40	5230	Ant5	36.180	---	PASS
11N40	5230	Ant6	36.180	---	PASS
11N40	5755	Ant5	36.180	---	PASS

11N40	5755	Ant6	36.240	---	PASS
11N40	5795	Ant5	36.180	---	PASS
11N40	5795	Ant6	36.240	---	PASS
11AC20	5180	Ant5	17.730	---	PASS
11AC20	5180	Ant6	17.730	---	PASS
11AC20	5220	Ant5	17.730	---	PASS
11AC20	5220	Ant6	17.730	---	PASS
11AC20	5240	Ant5	17.730	---	PASS
11AC20	5240	Ant6	17.730	---	PASS
11AC20	5745	Ant5	17.730	---	PASS
11AC20	5745	Ant6	17.760	---	PASS
11AC20	5785	Ant5	17.730	---	PASS
11AC20	5785	Ant6	17.760	---	PASS
11AC20	5825	Ant5	17.730	---	PASS
11AC20	5825	Ant6	17.760	---	PASS
11AC80	5210	Ant5	75.240	---	PASS
11AC80	5210	Ant6	75.120	---	PASS
11AC80	5775	Ant5	75.240	---	PASS
11AC80	5775	Ant6	75.120	---	PASS
11AC40	5190	Ant5	36.180	---	PASS
11AC40	5190	Ant6	36.120	---	PASS
11AC40	5230	Ant5	36.180	---	PASS
11AC40	5230	Ant6	36.180	---	PASS
11AC40	5755	Ant5	36.180	---	PASS
11AC40	5755	Ant6	36.180	---	PASS
11AC40	5795	Ant5	36.240	---	PASS
11AC40	5795	Ant6	36.180	---	PASS

Occupied Bandwidth Measurement_11A_5180_Ant5



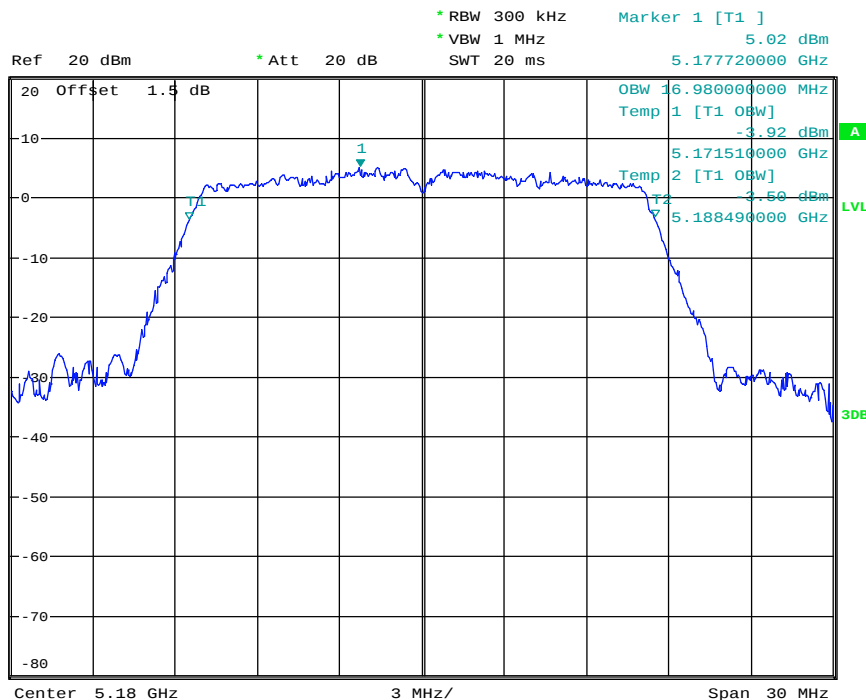
1 PK
VIEW



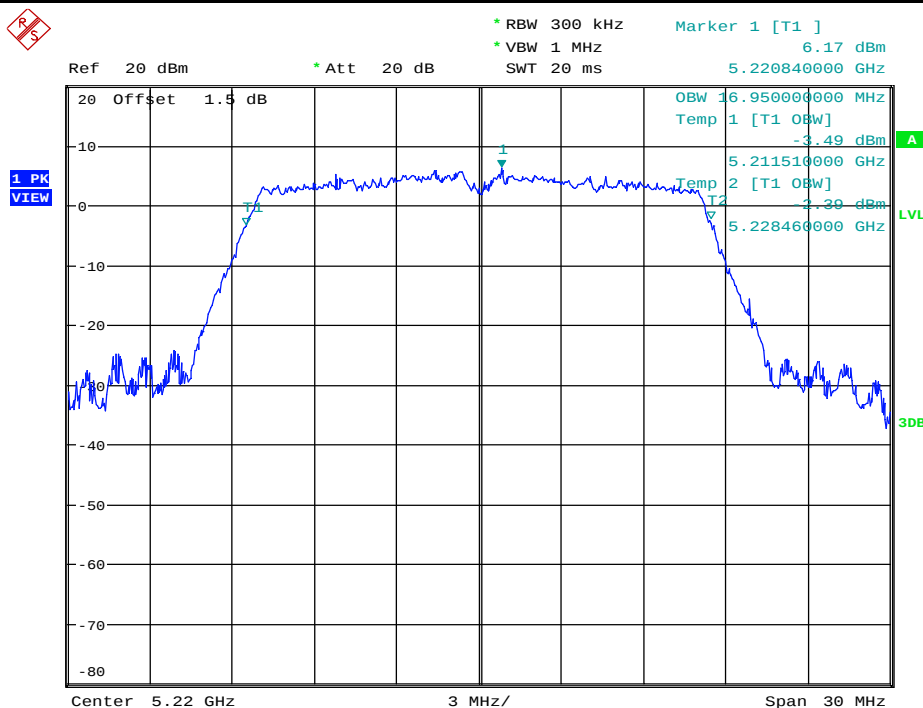
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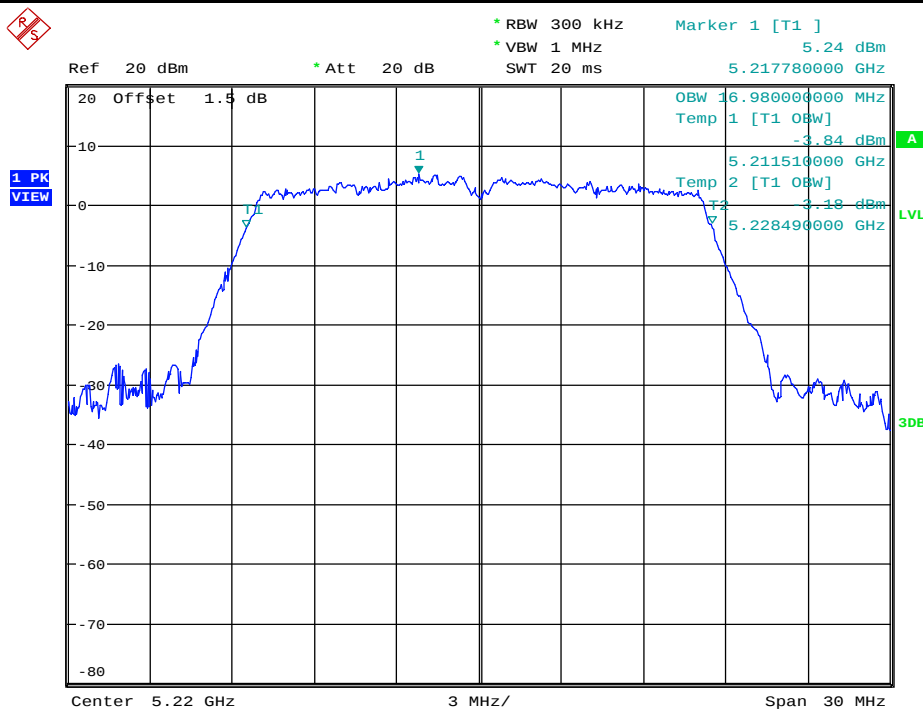
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VIEW



Occupied Bandwidth Measurement_11A_5220_Ant5



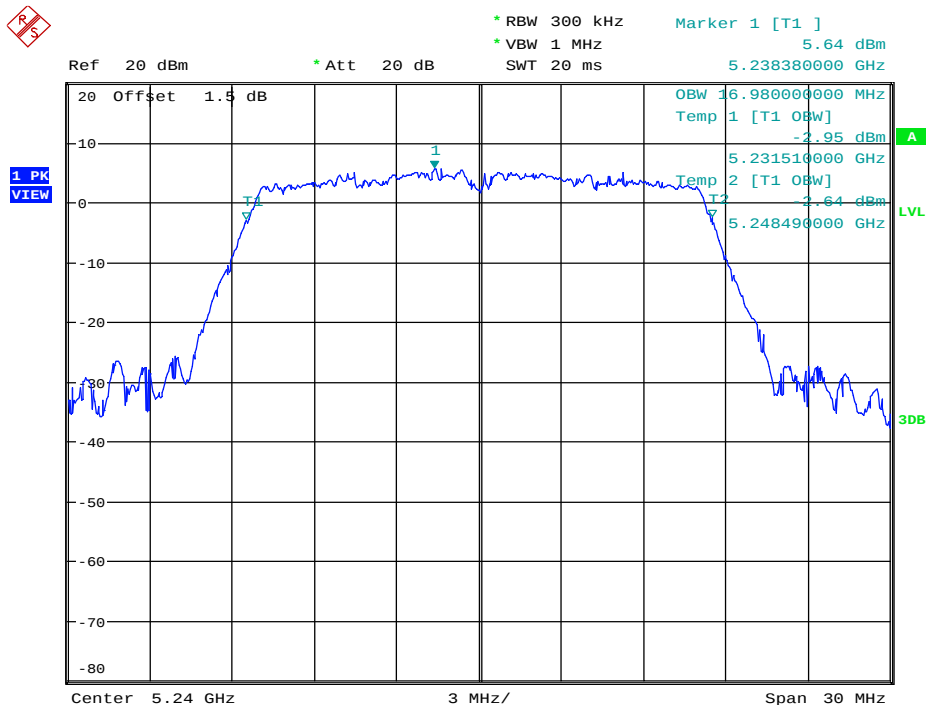
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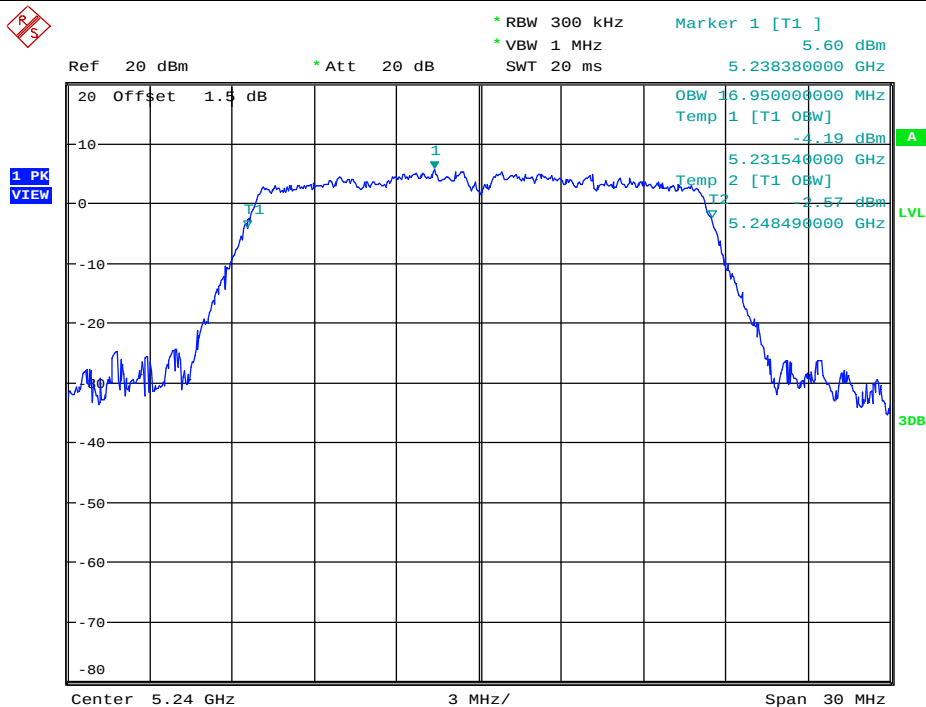
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Occupied Bandwidth Measurement_11A_5240_Ant5



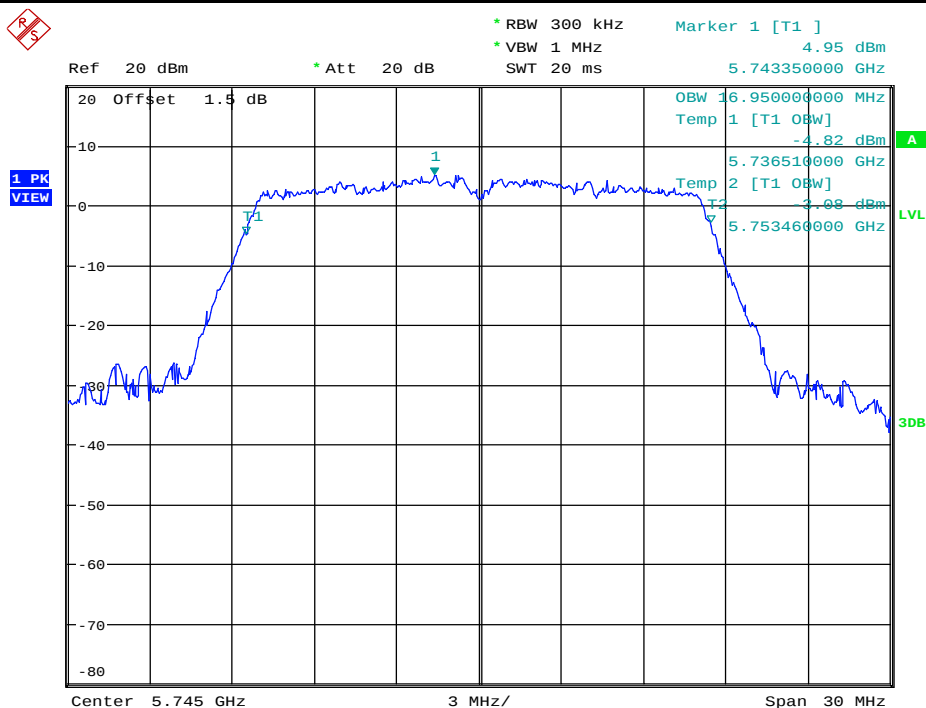
Occupied Bandwidth Measurement_11A_5240_Ant6



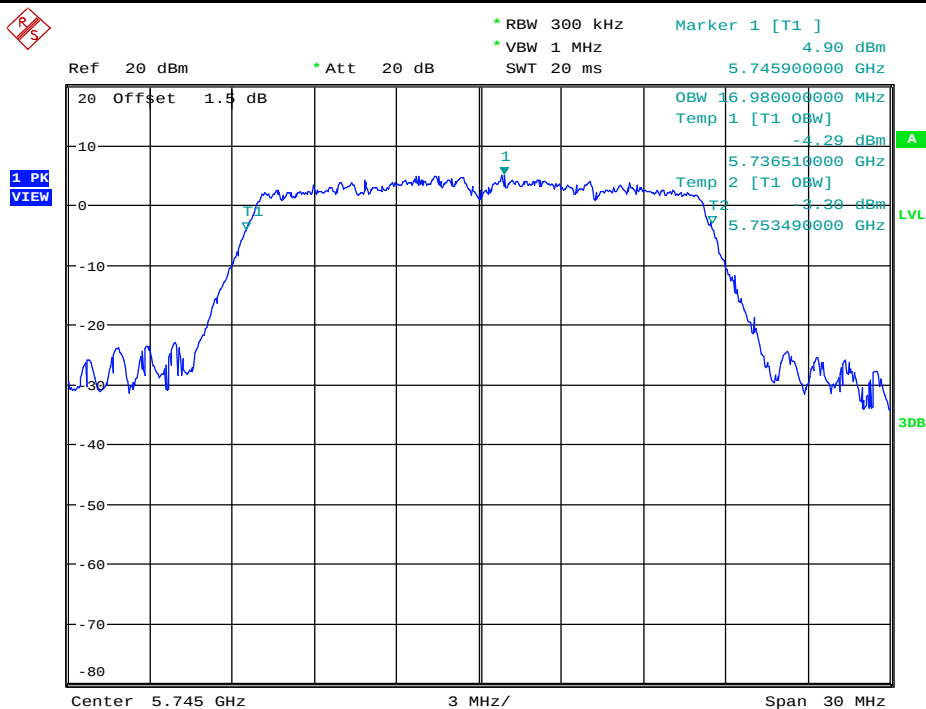
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Occupied Bandwidth Measurement_11A_5745_Ant5

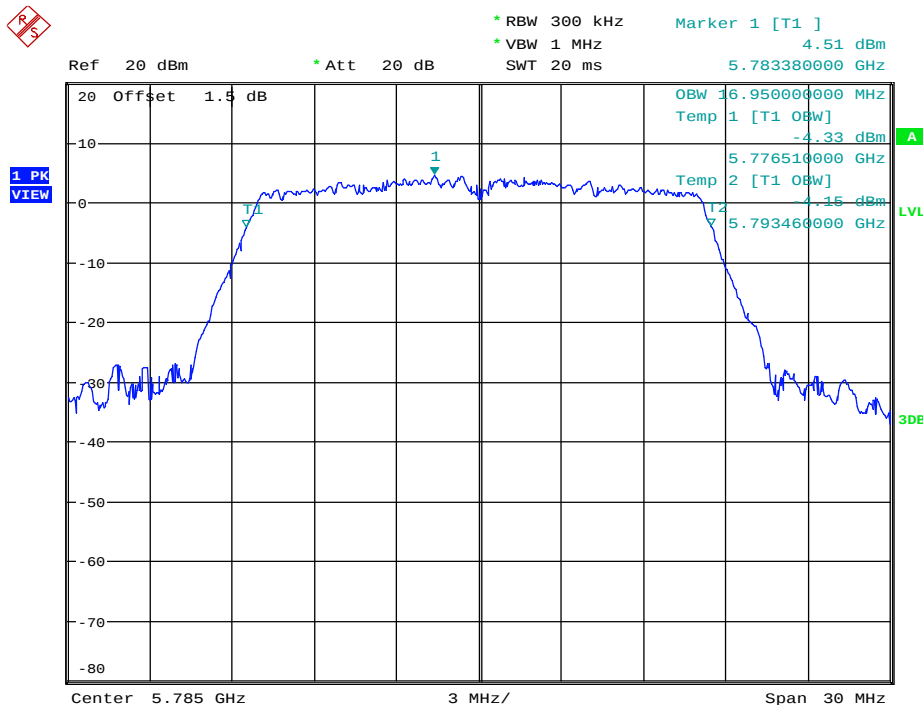


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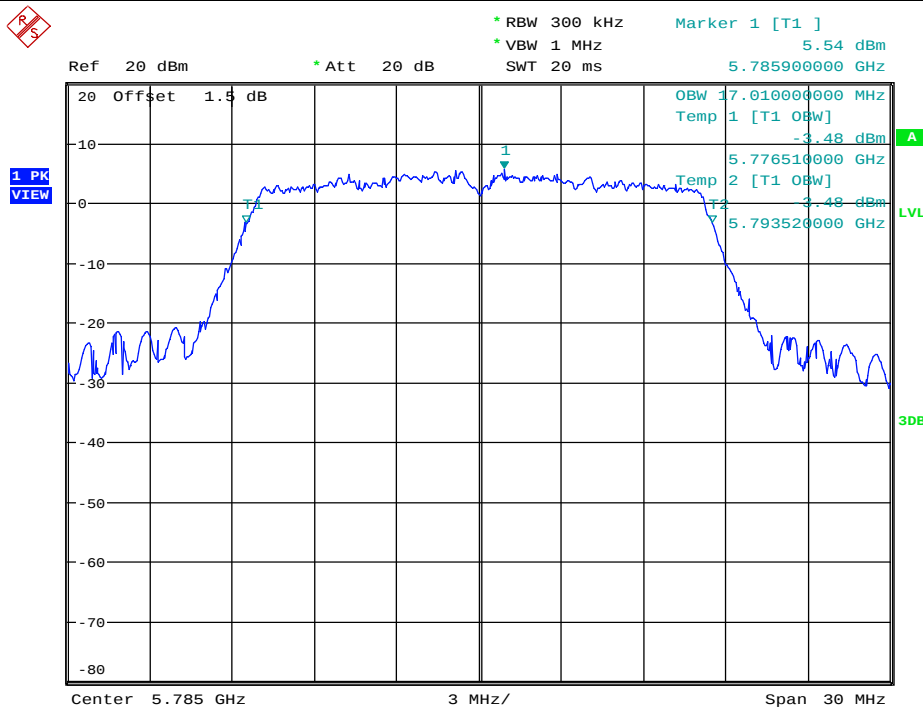


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Occupied Bandwidth Measurement_11A_5785_Ant5



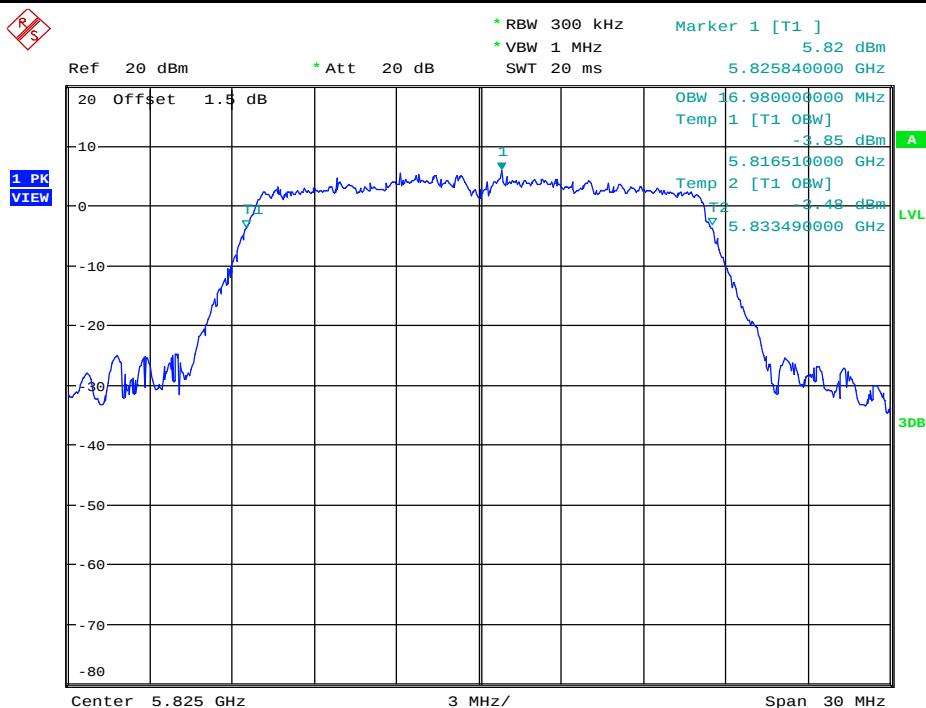
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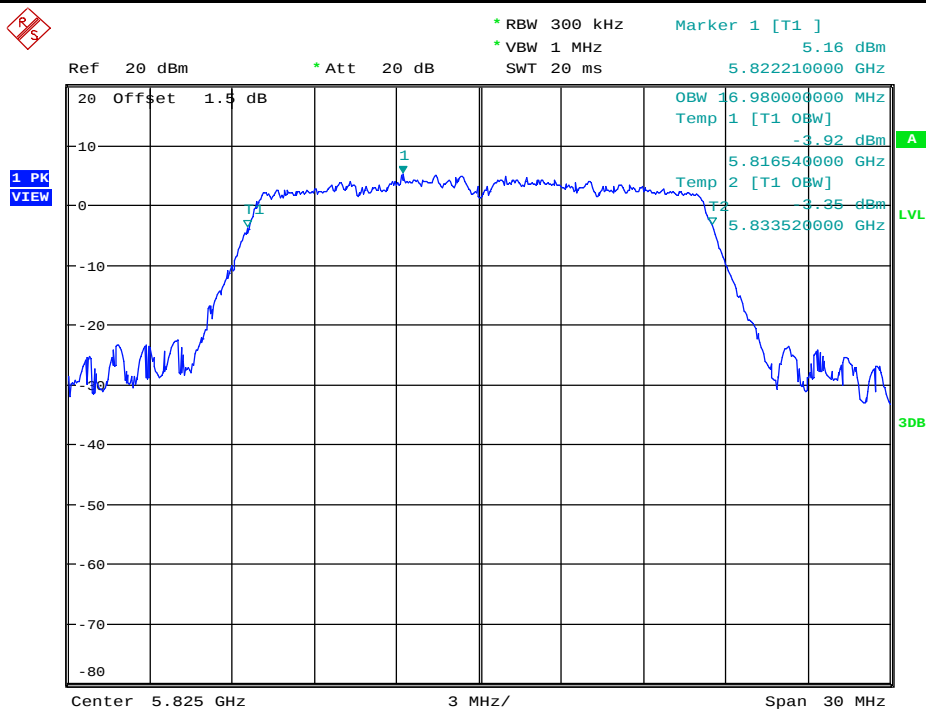
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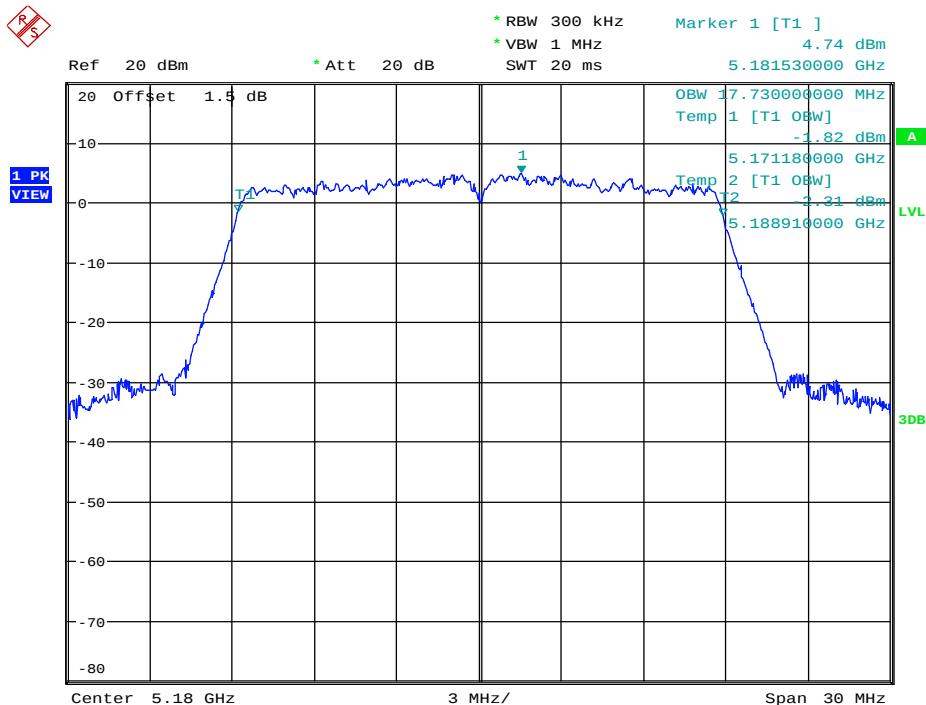
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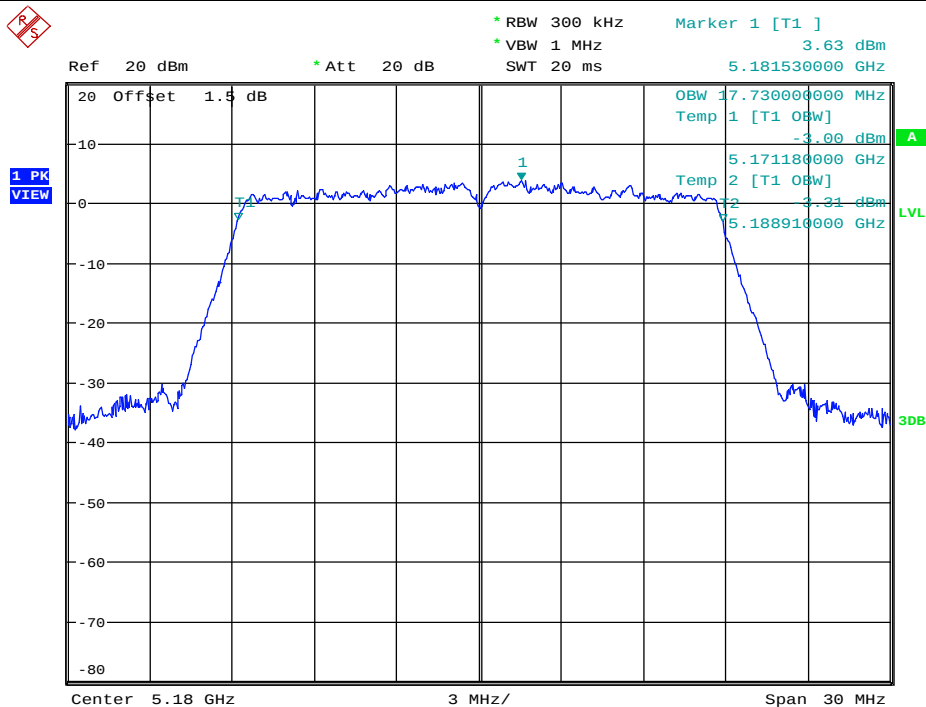
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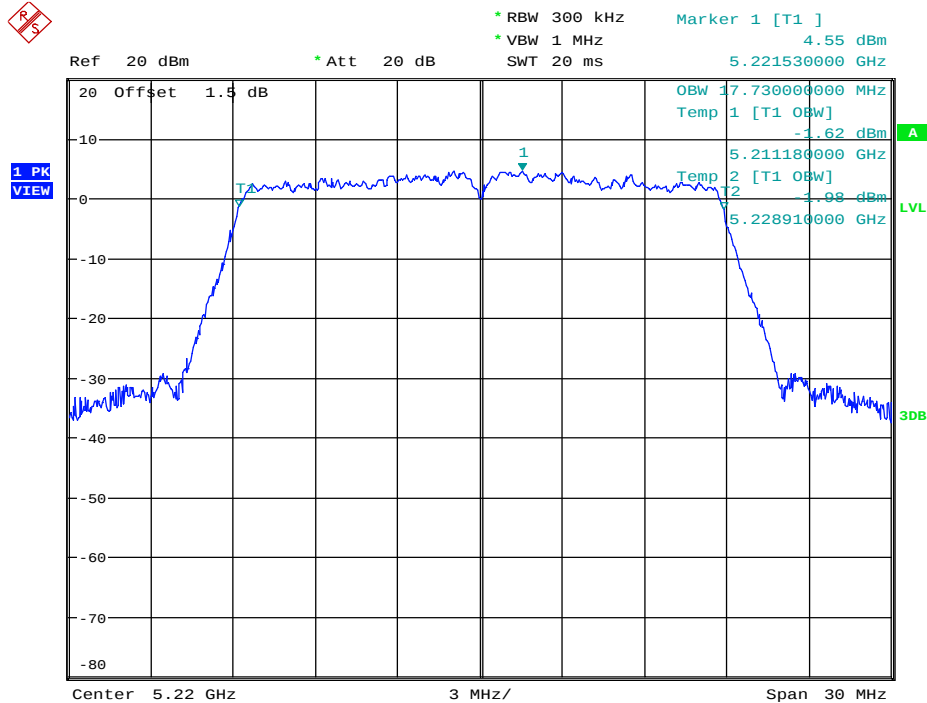
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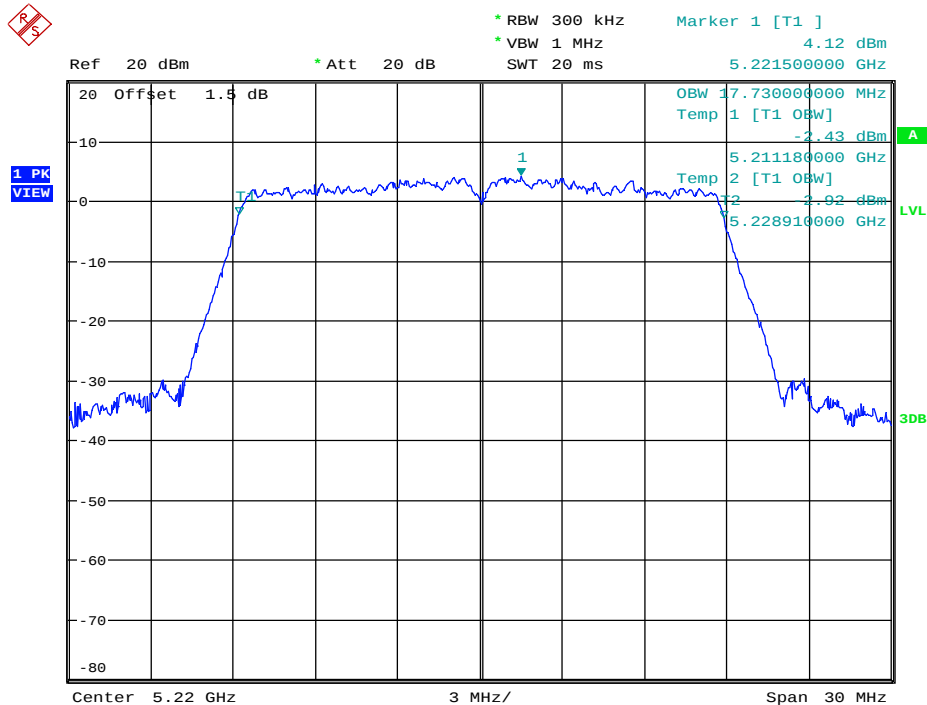
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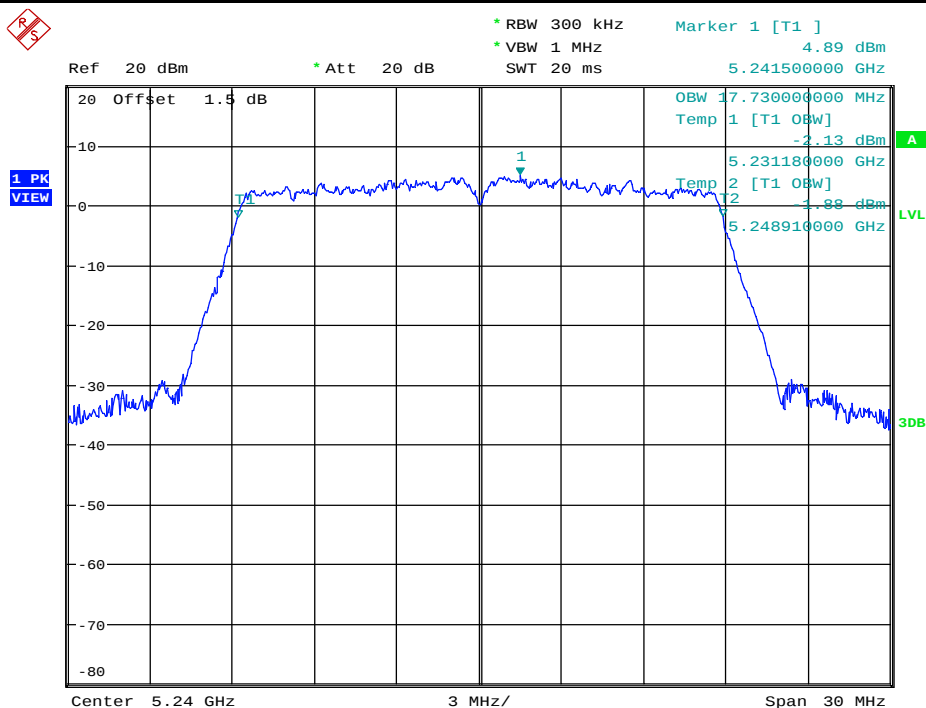
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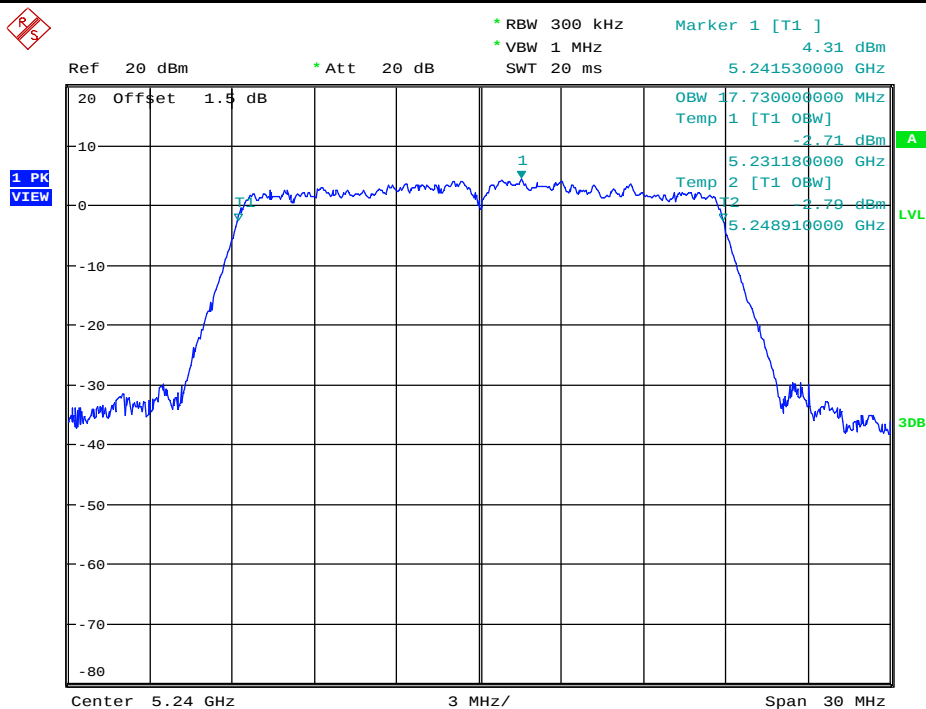
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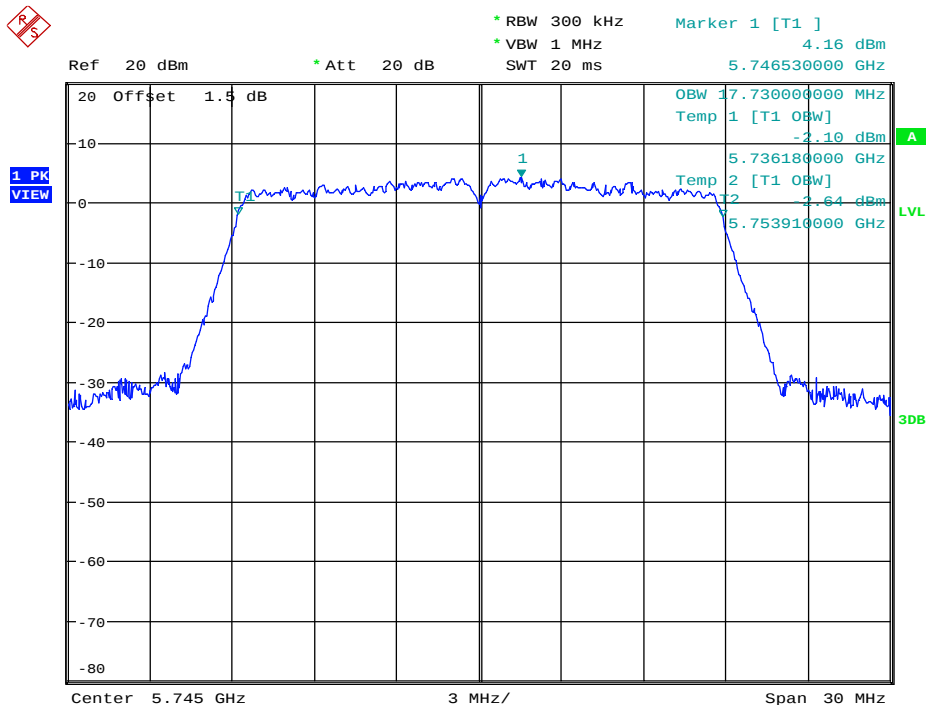
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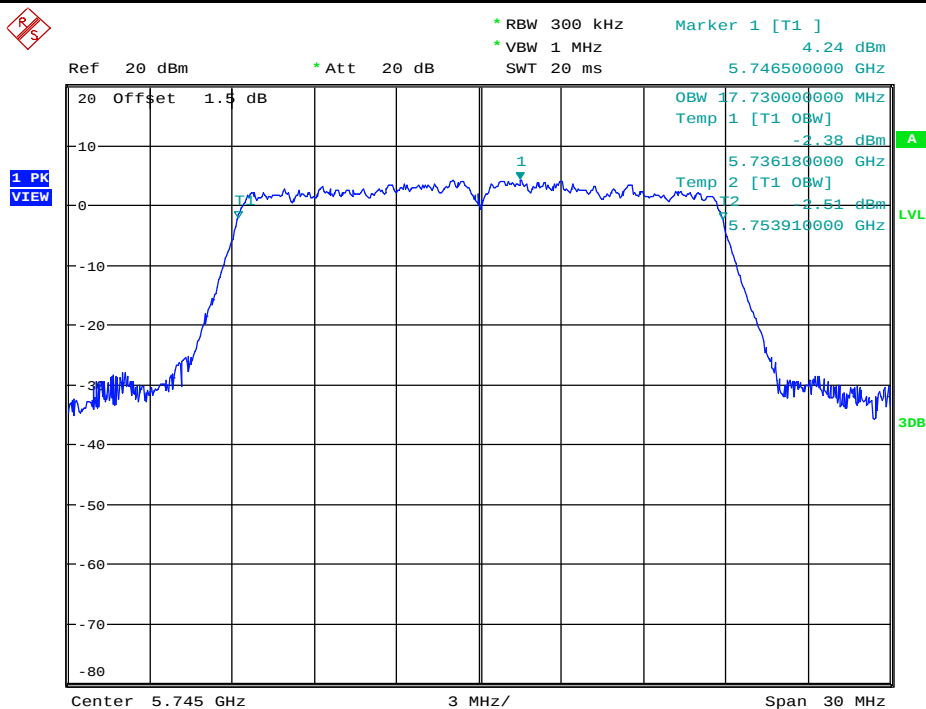
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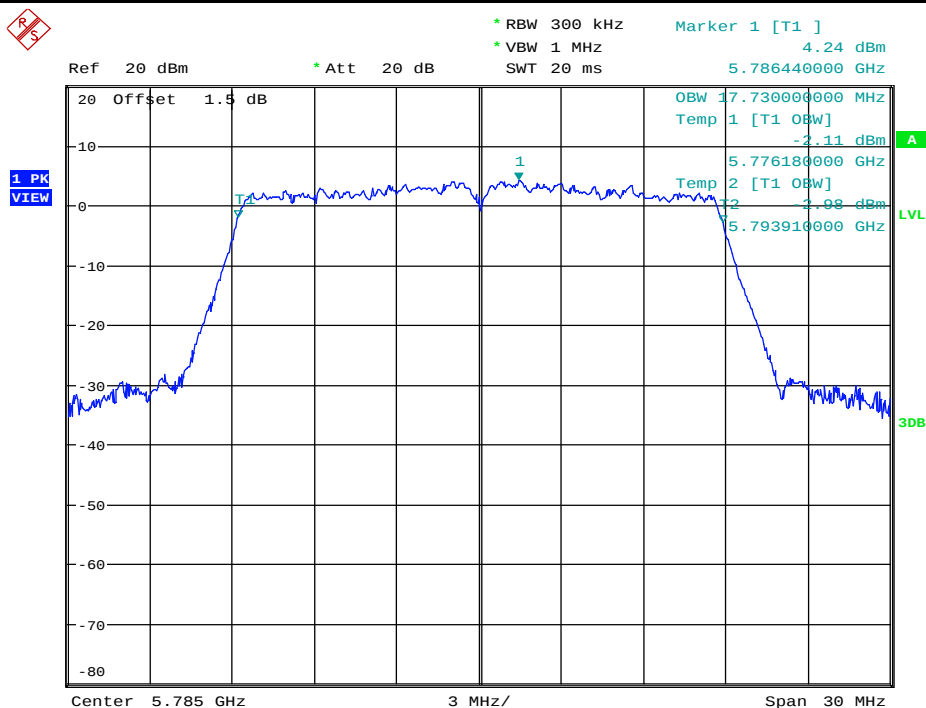


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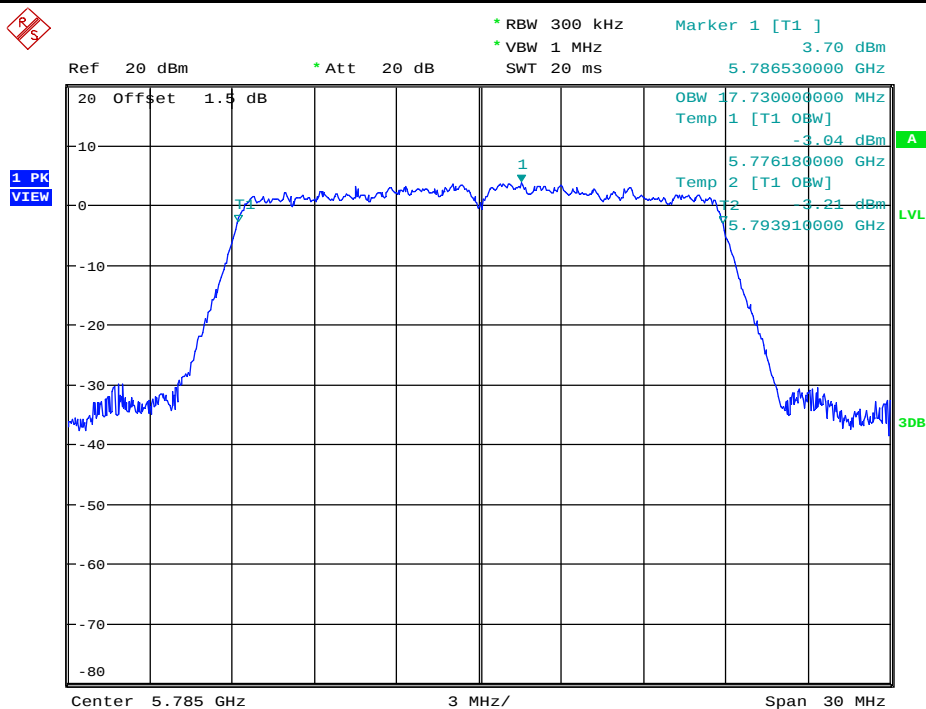


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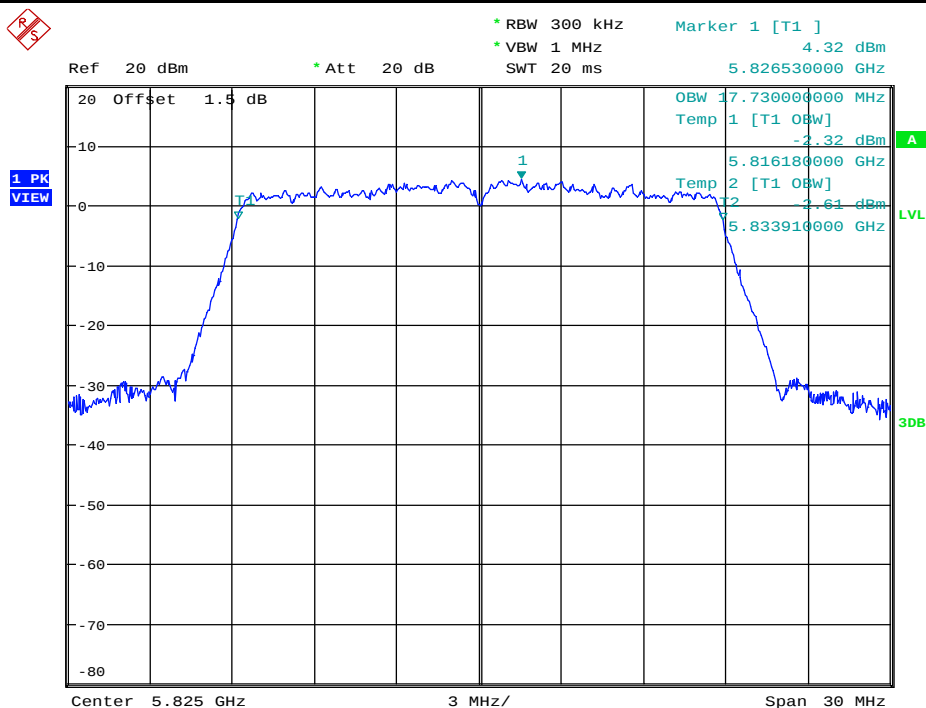
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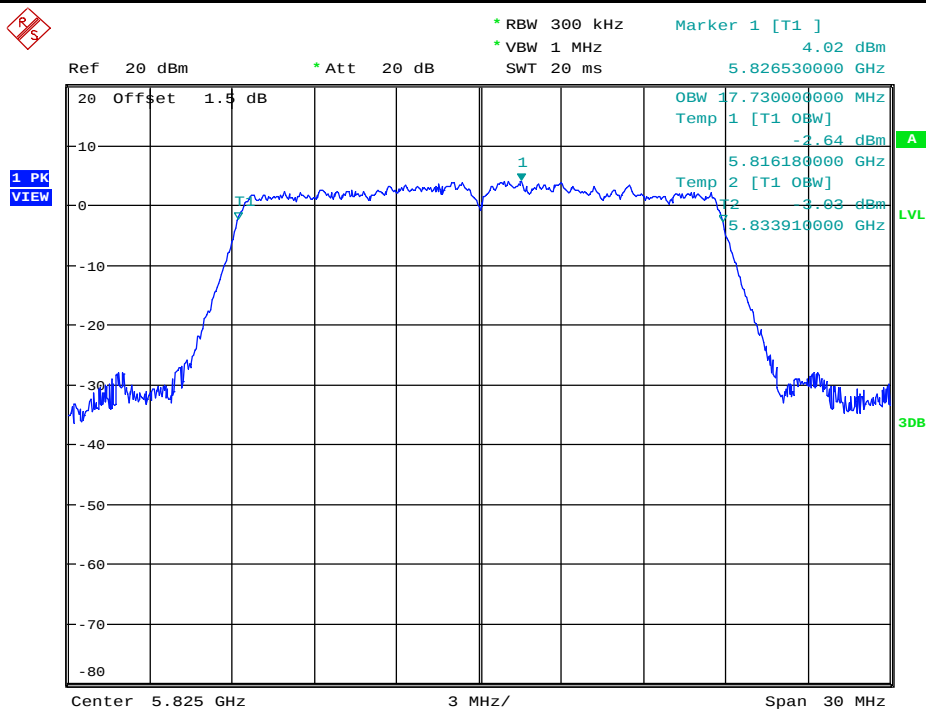
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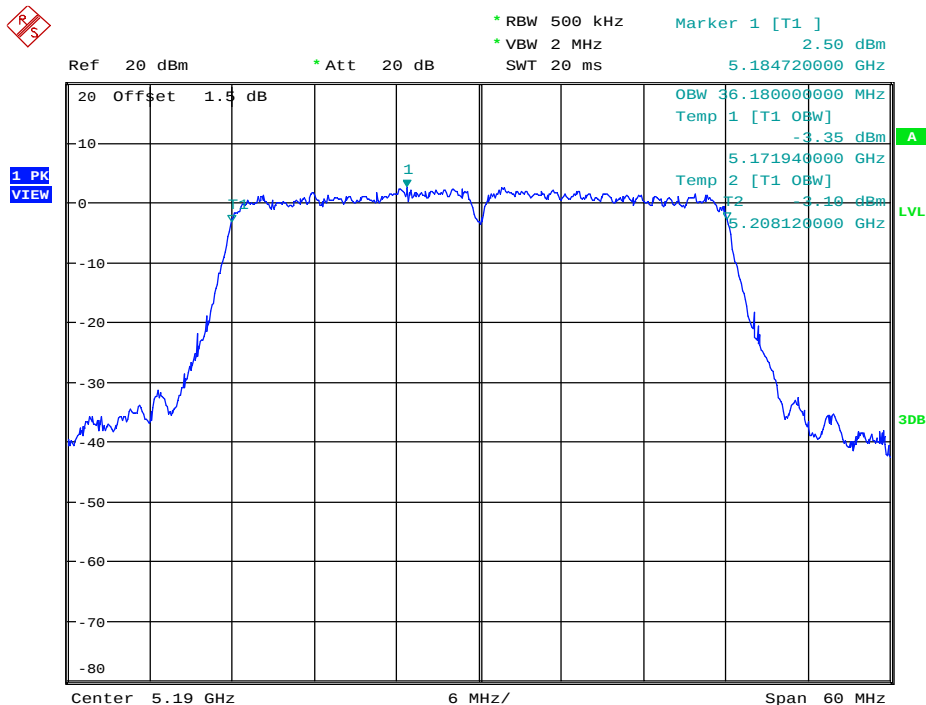
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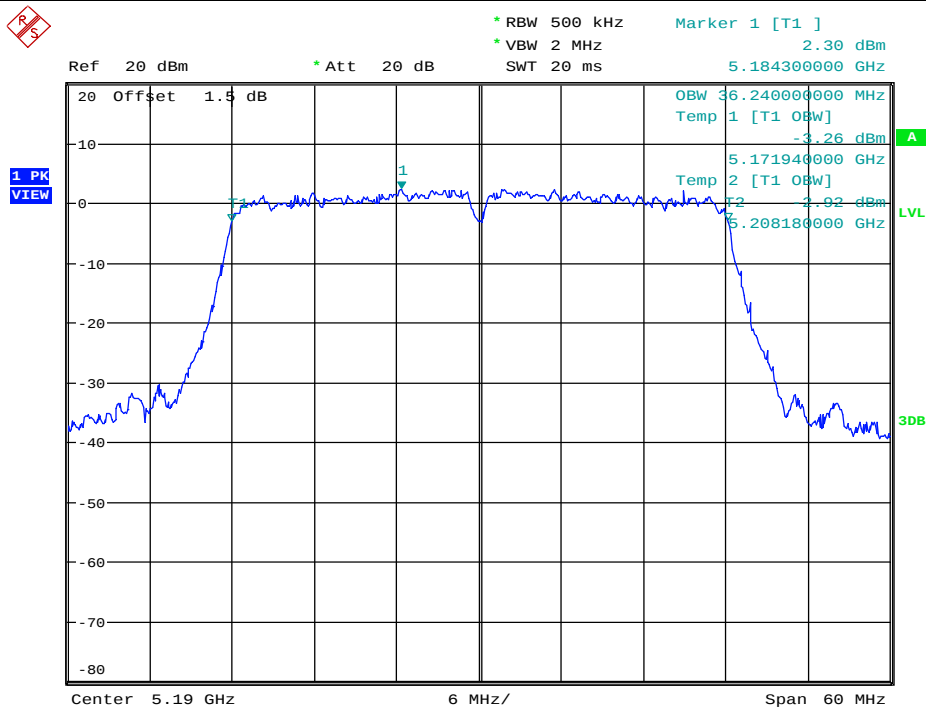
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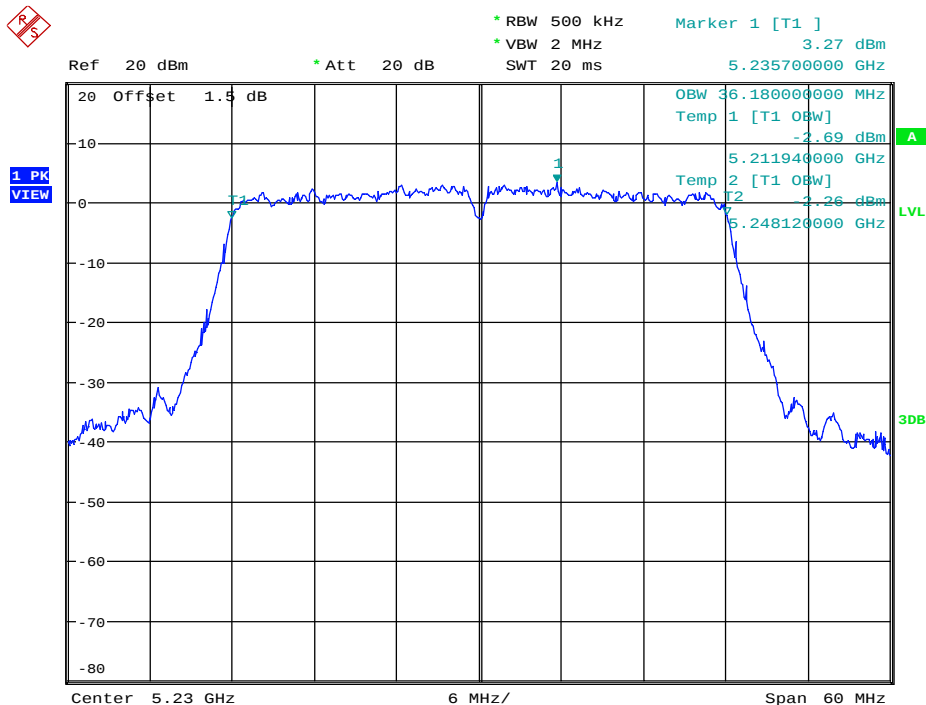


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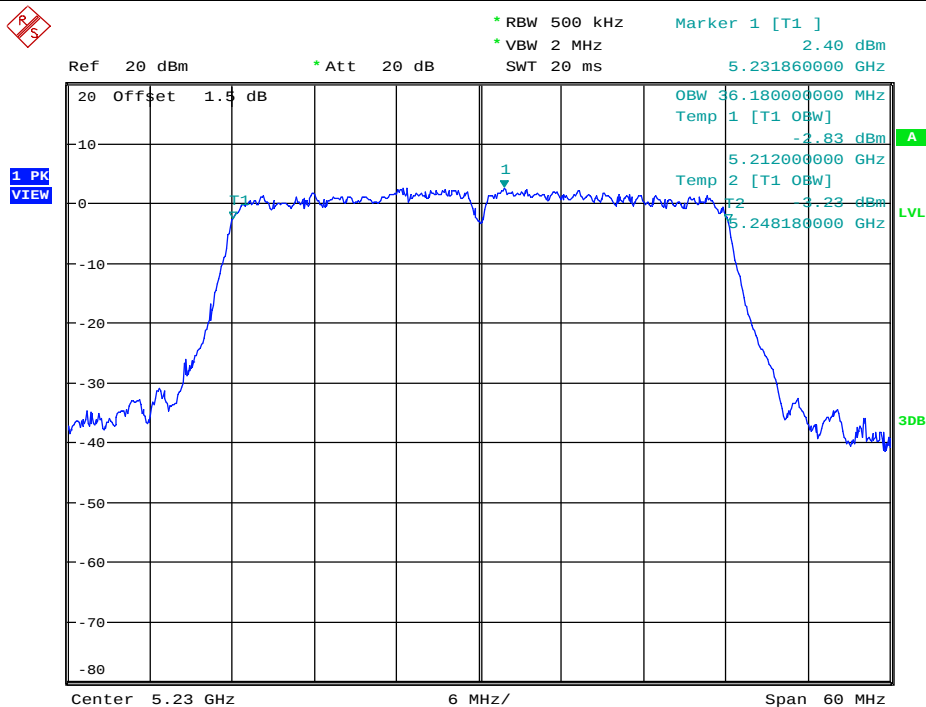


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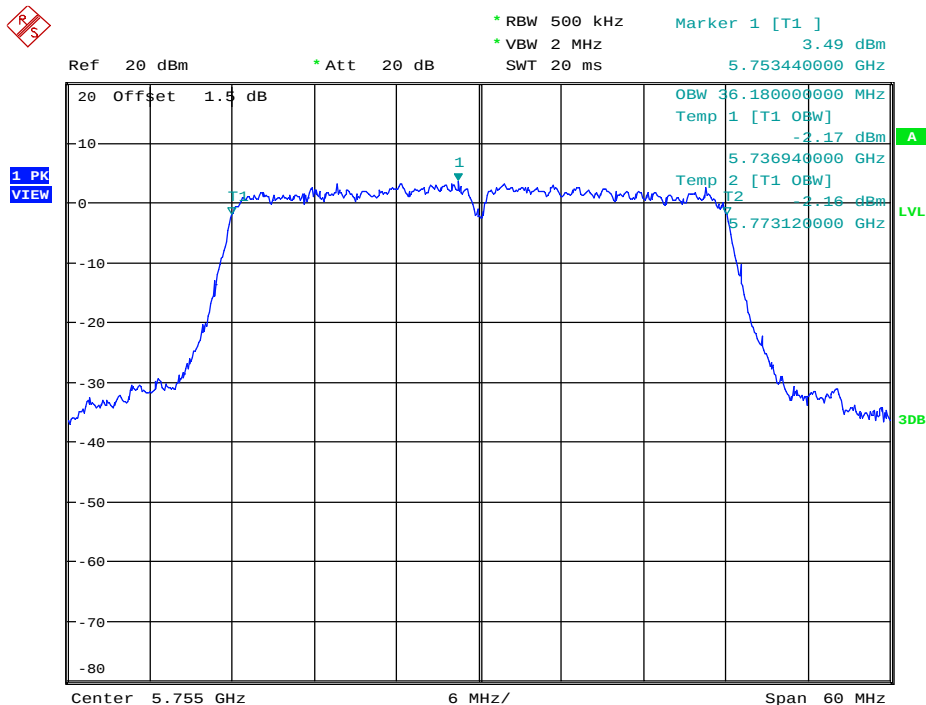
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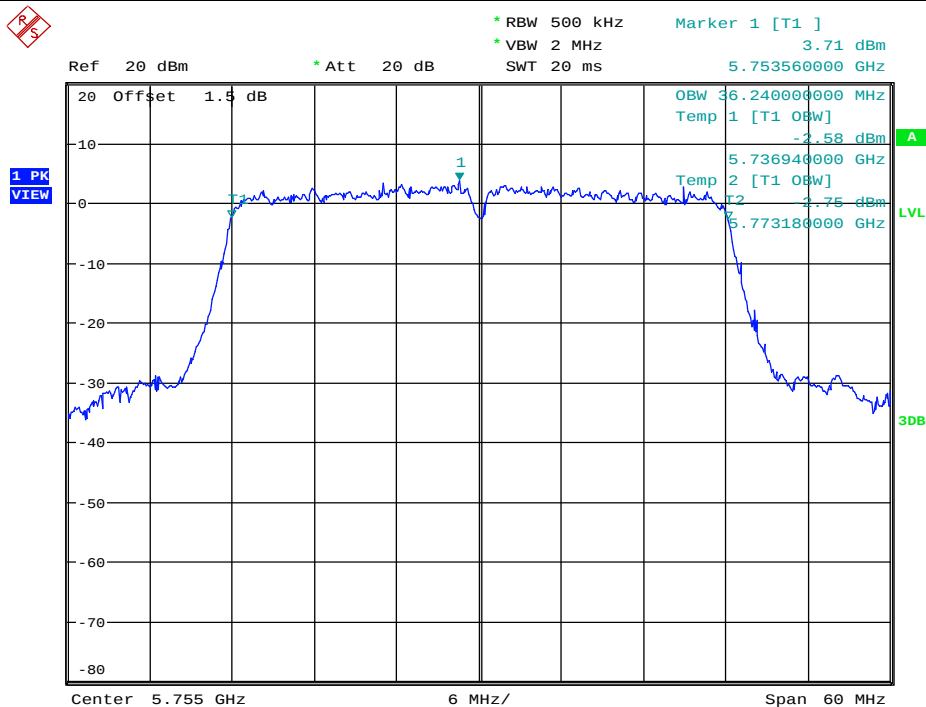
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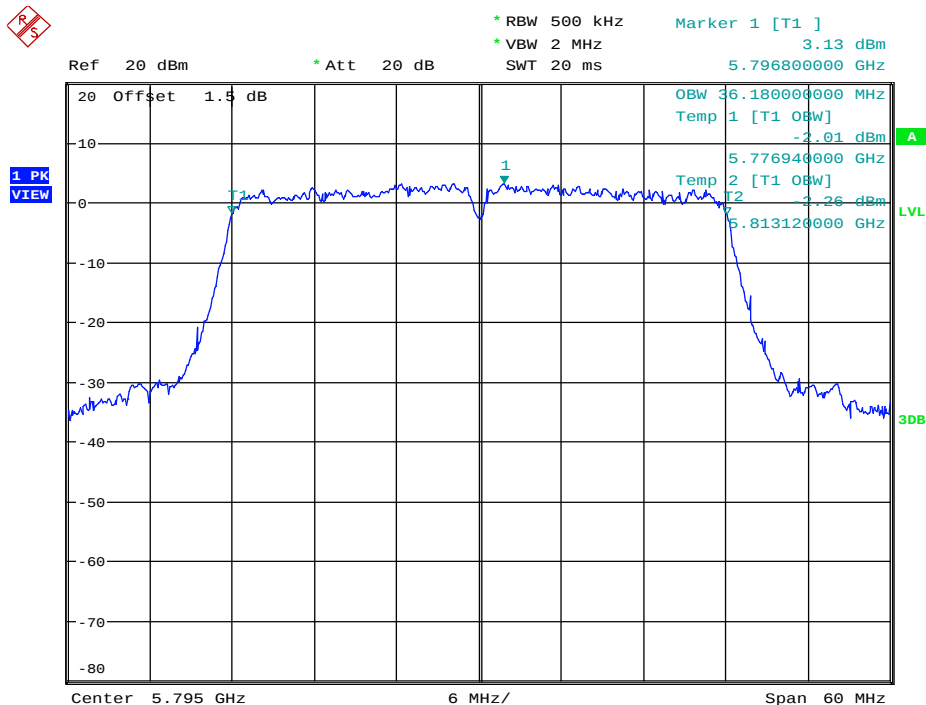


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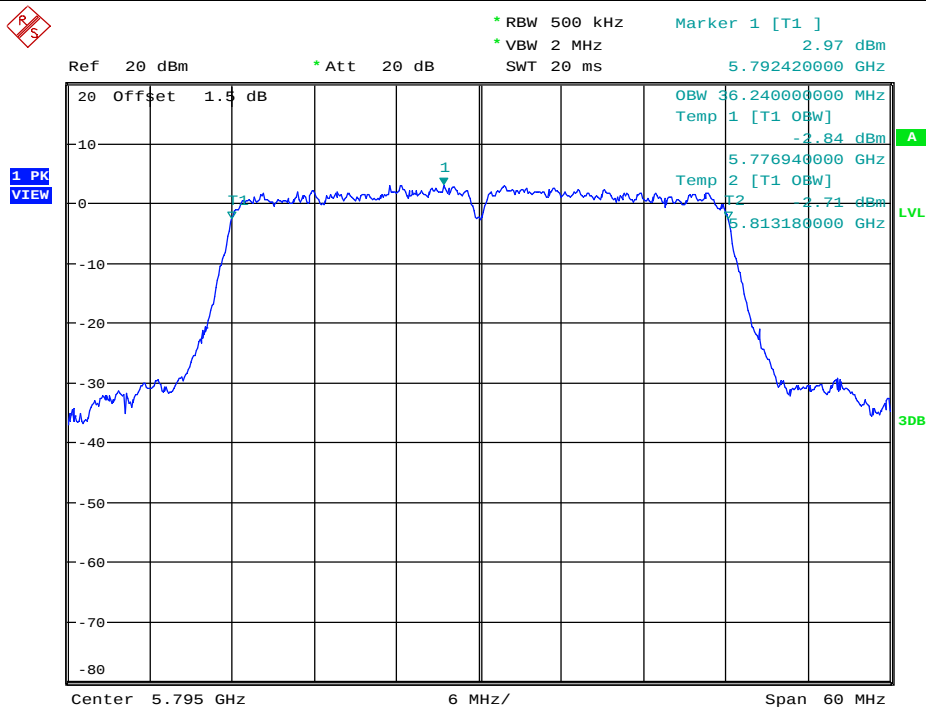


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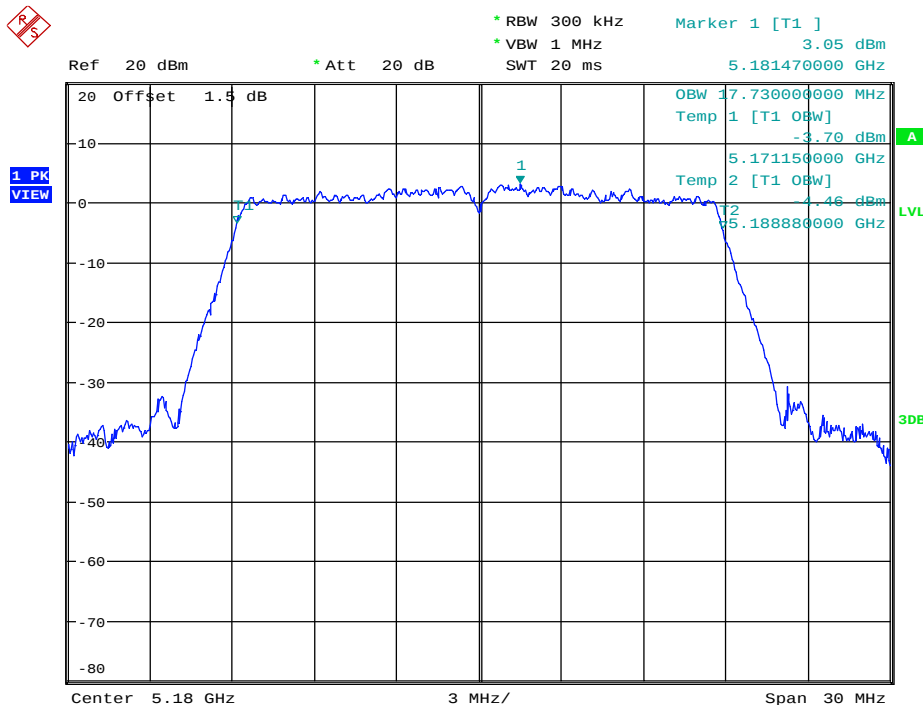


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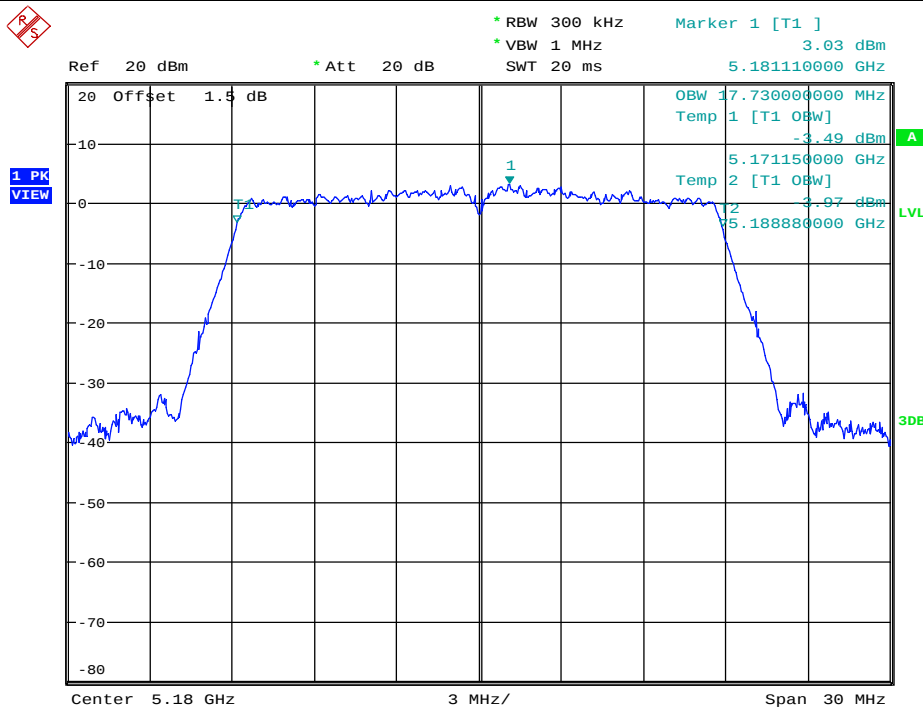


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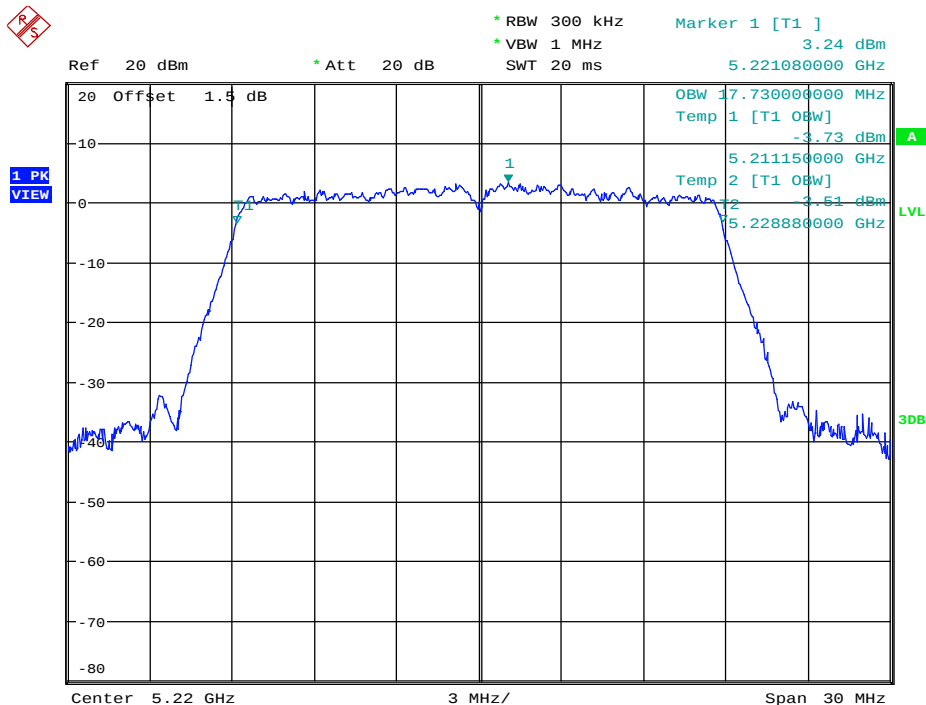
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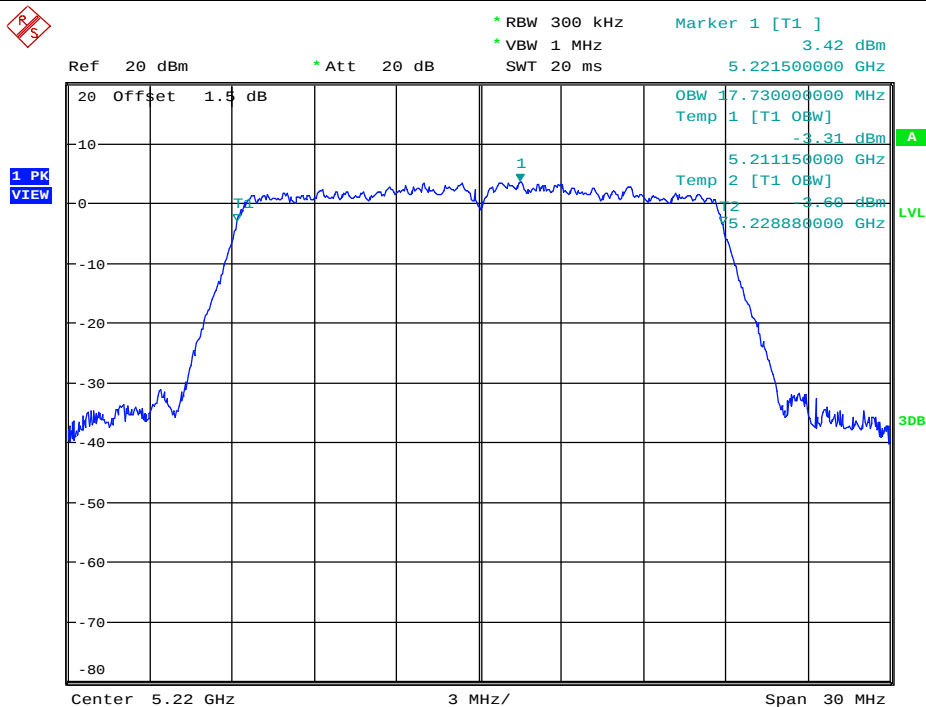
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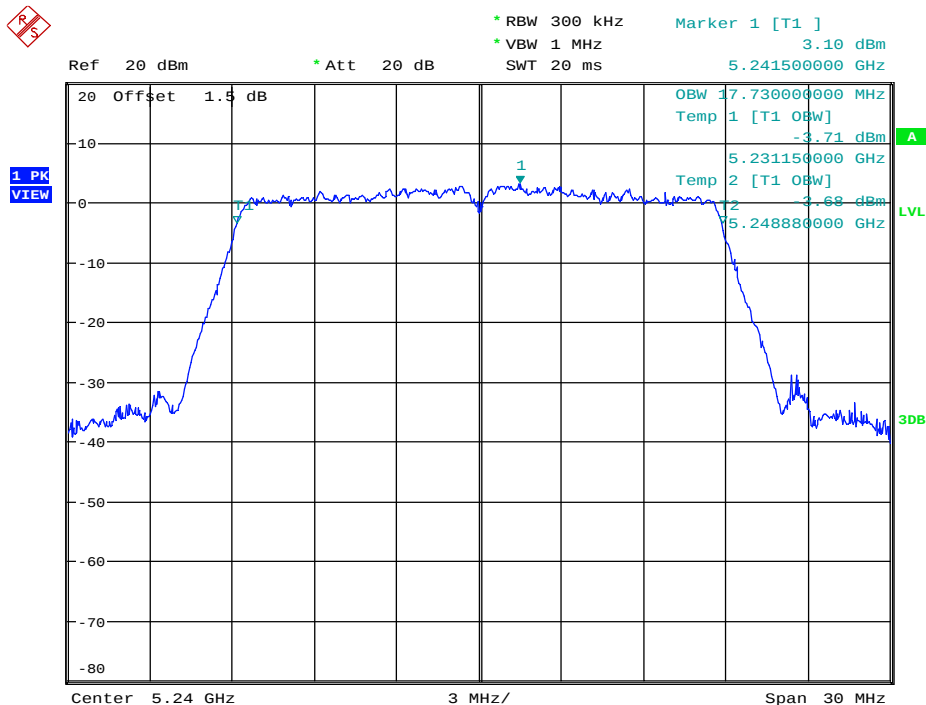


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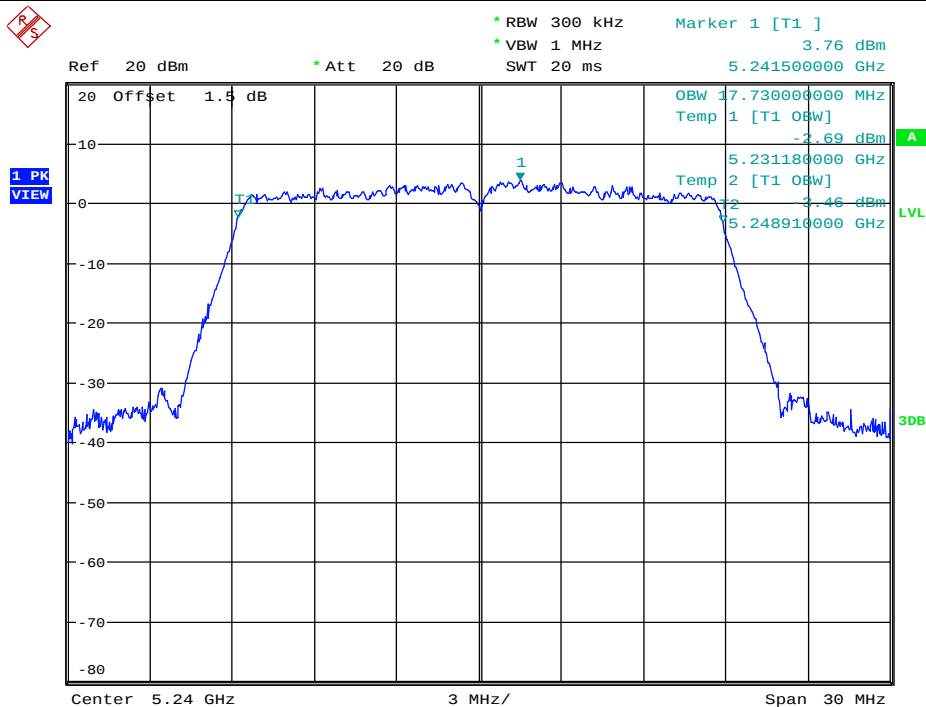


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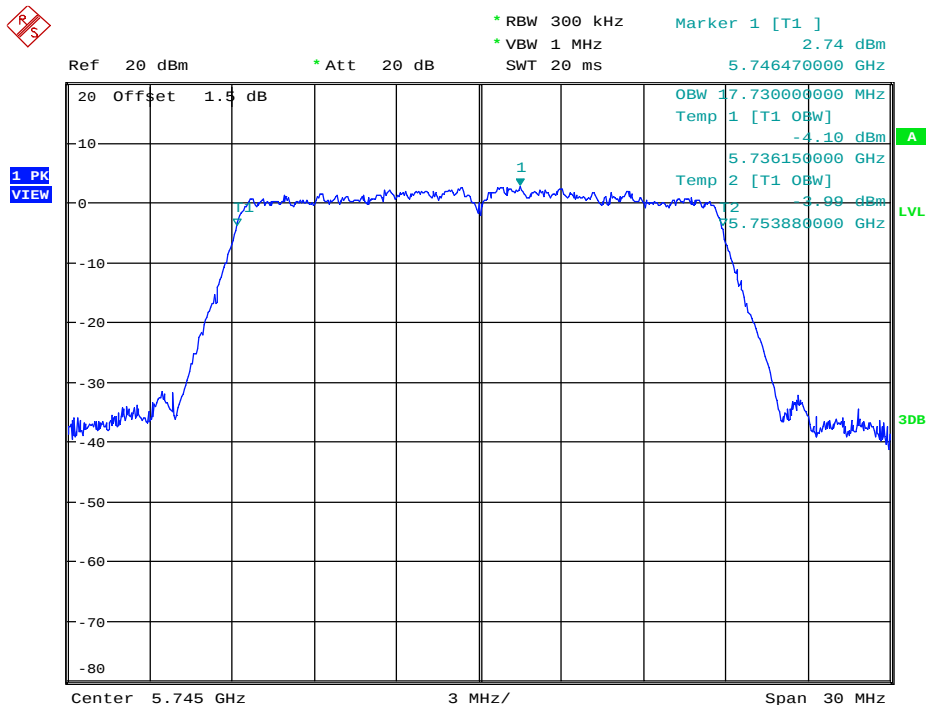
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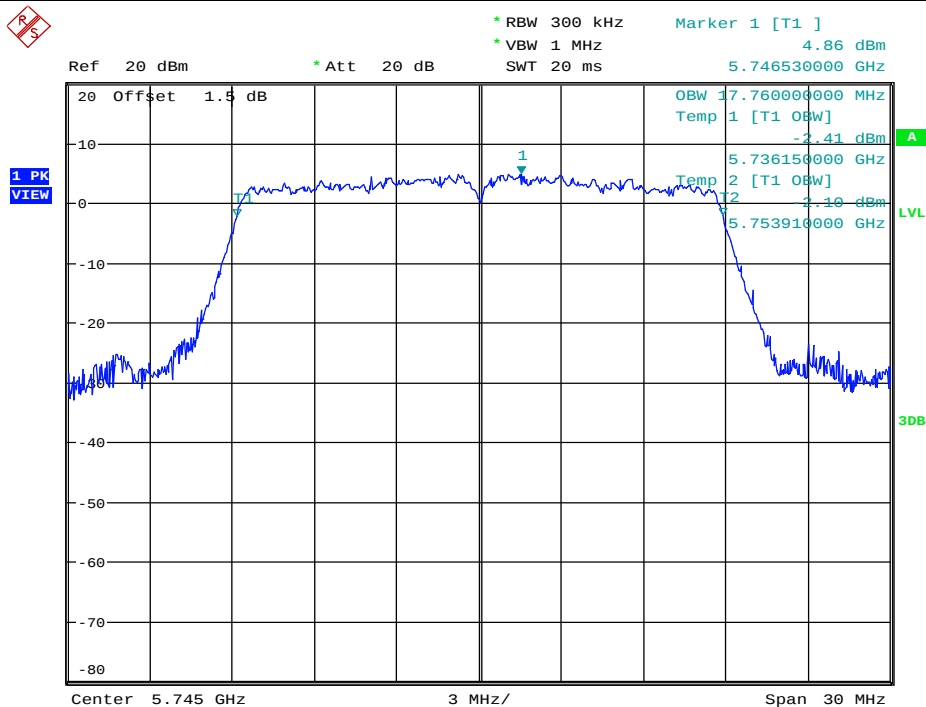
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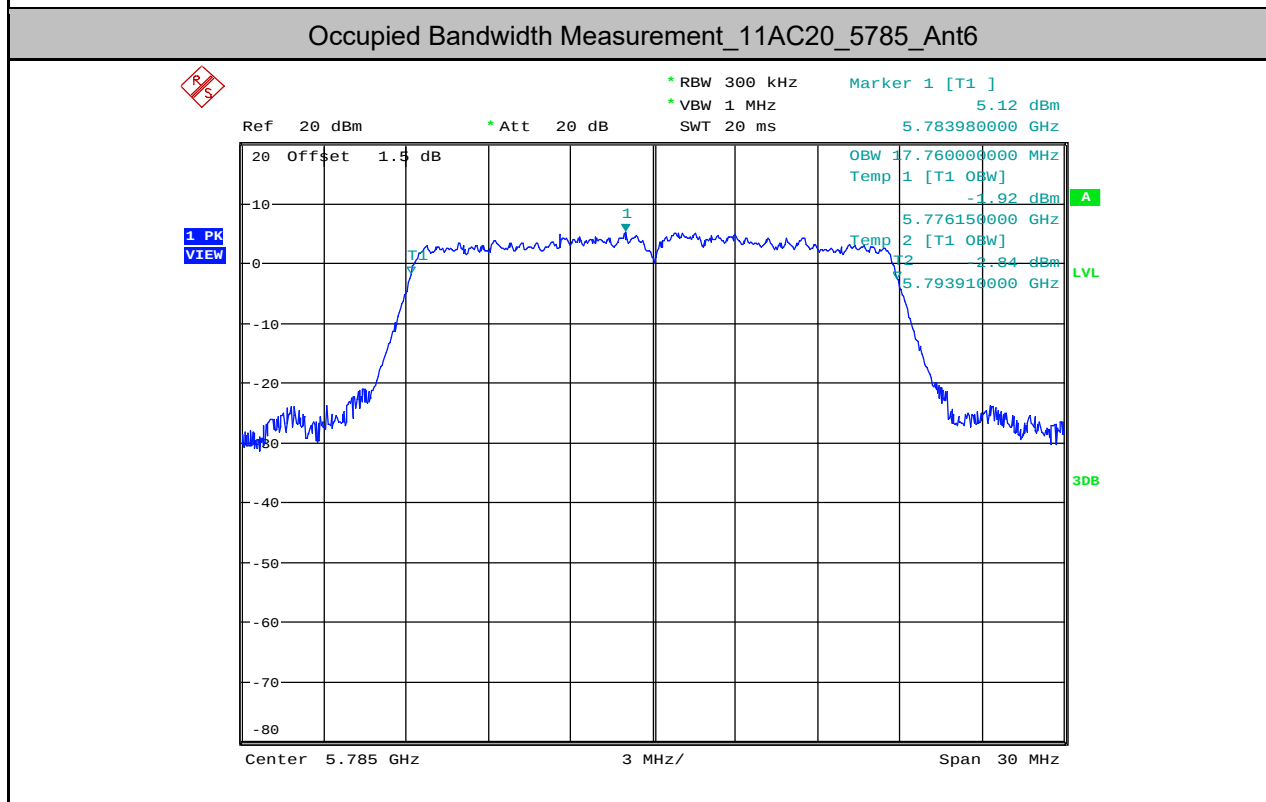
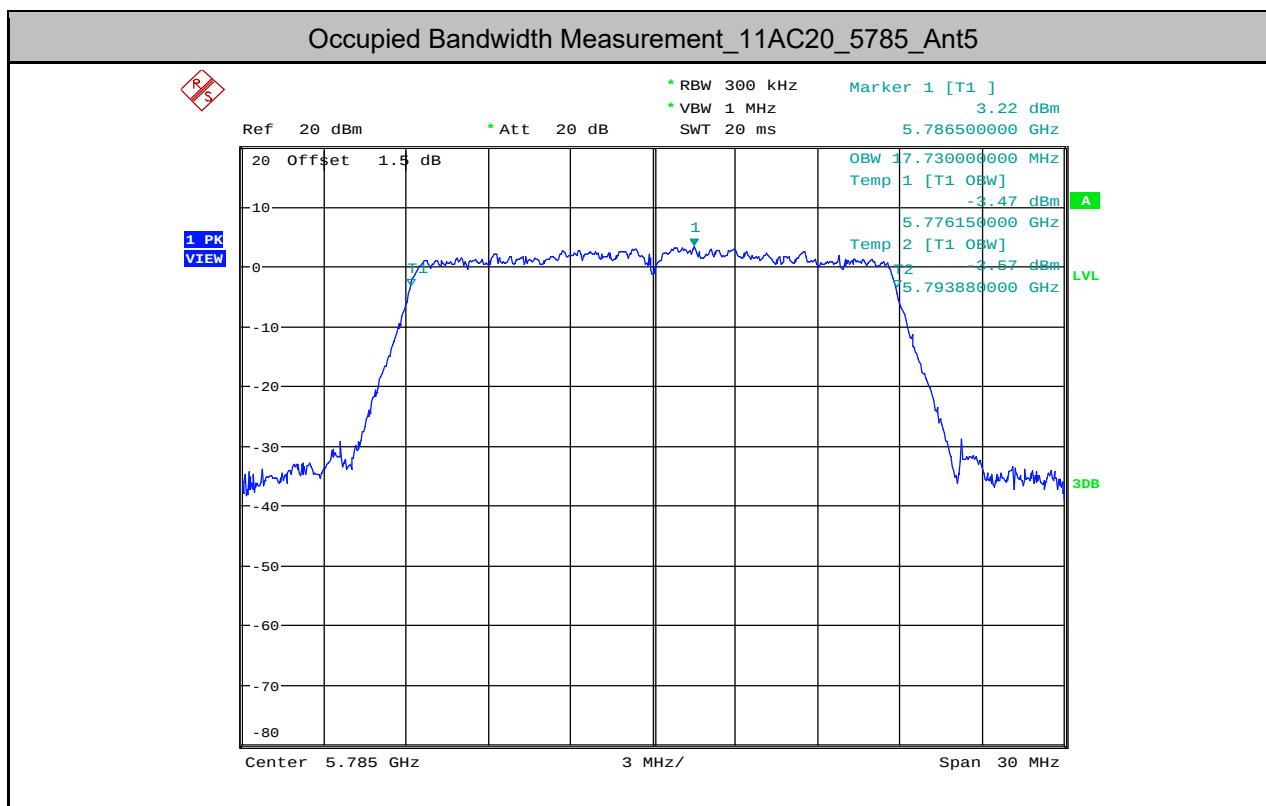
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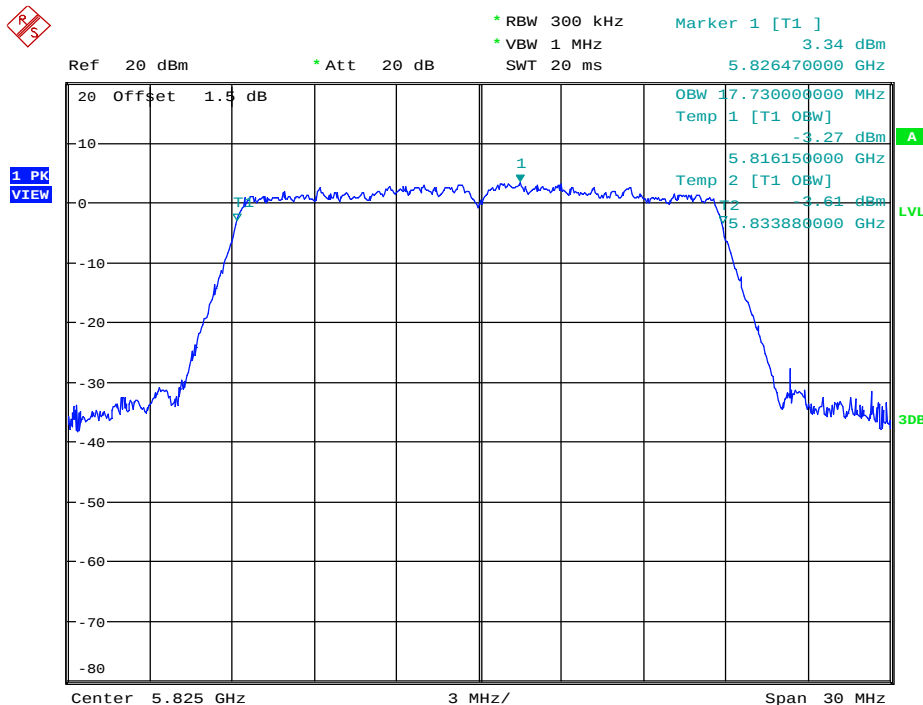


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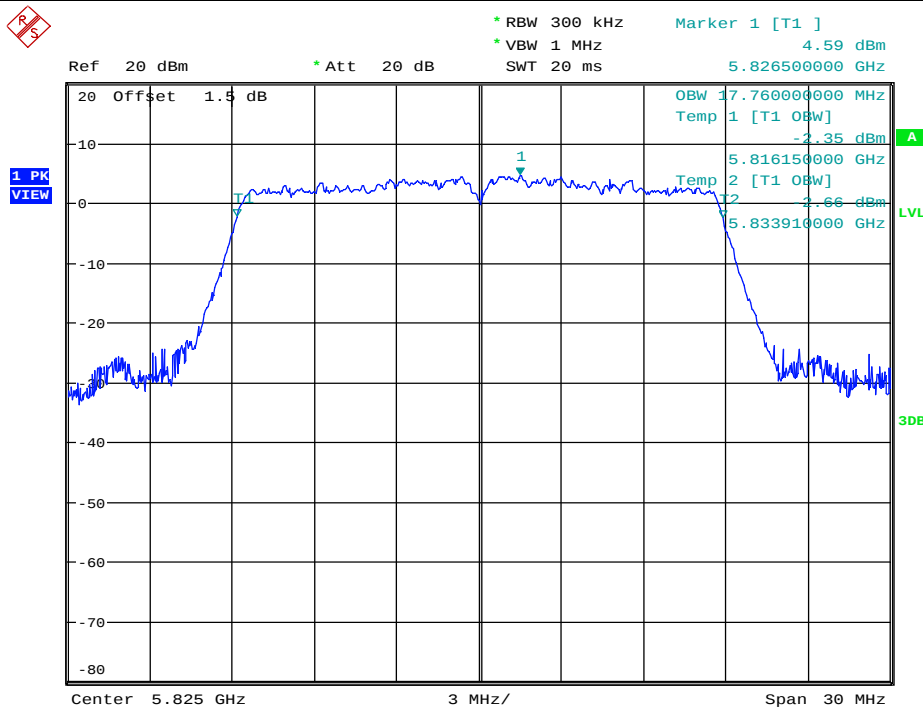
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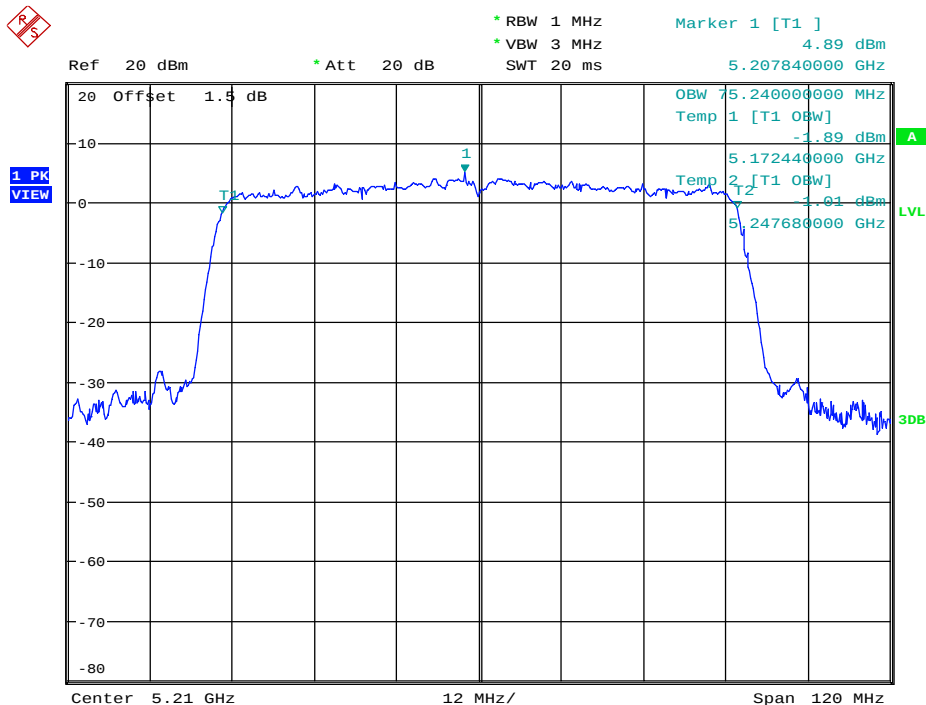


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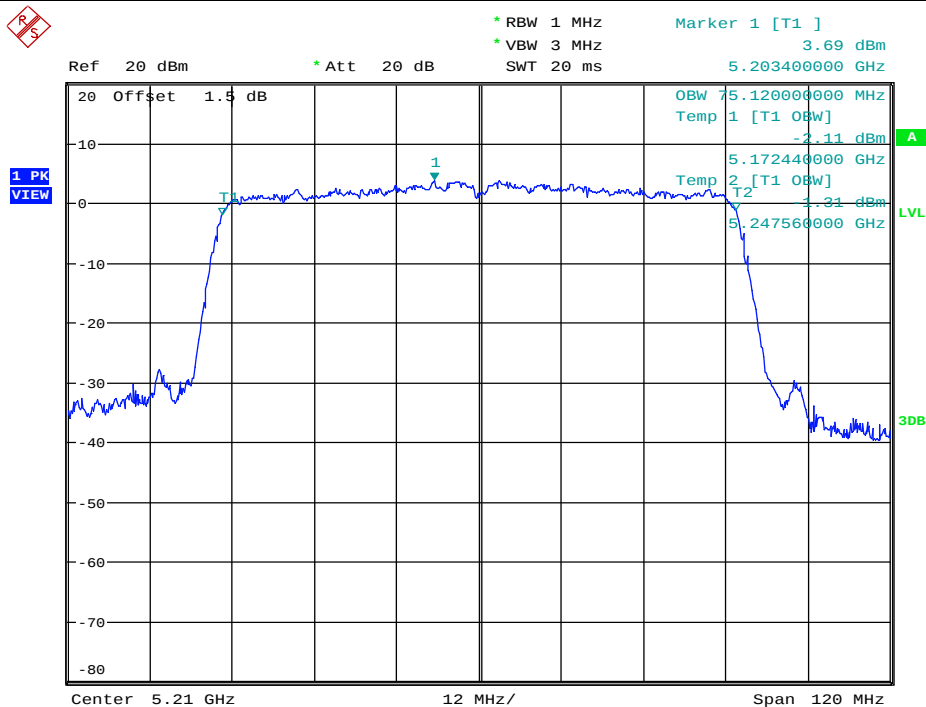


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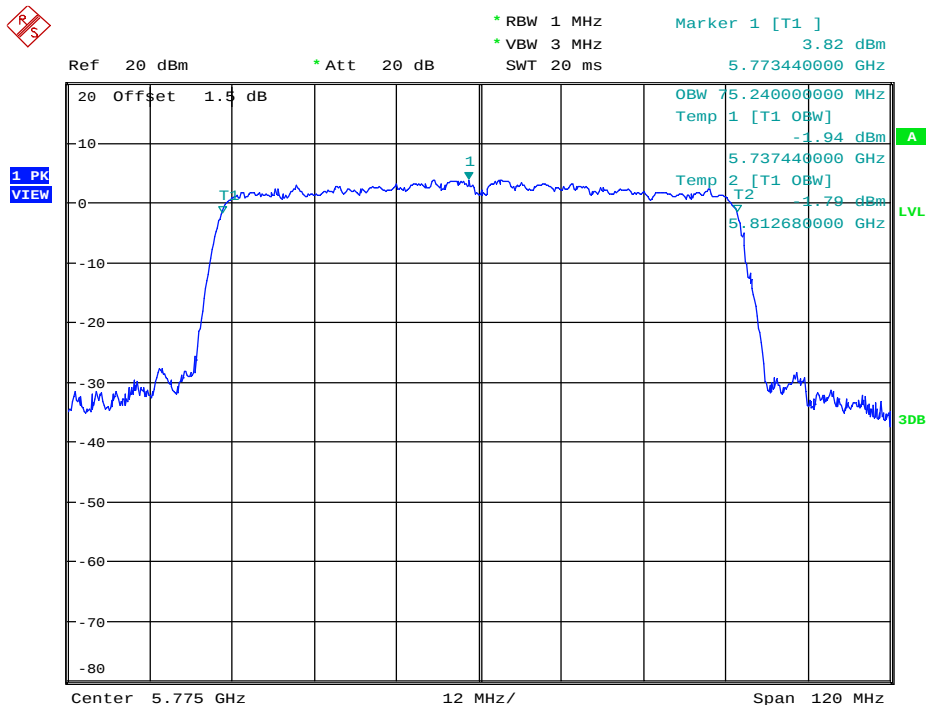
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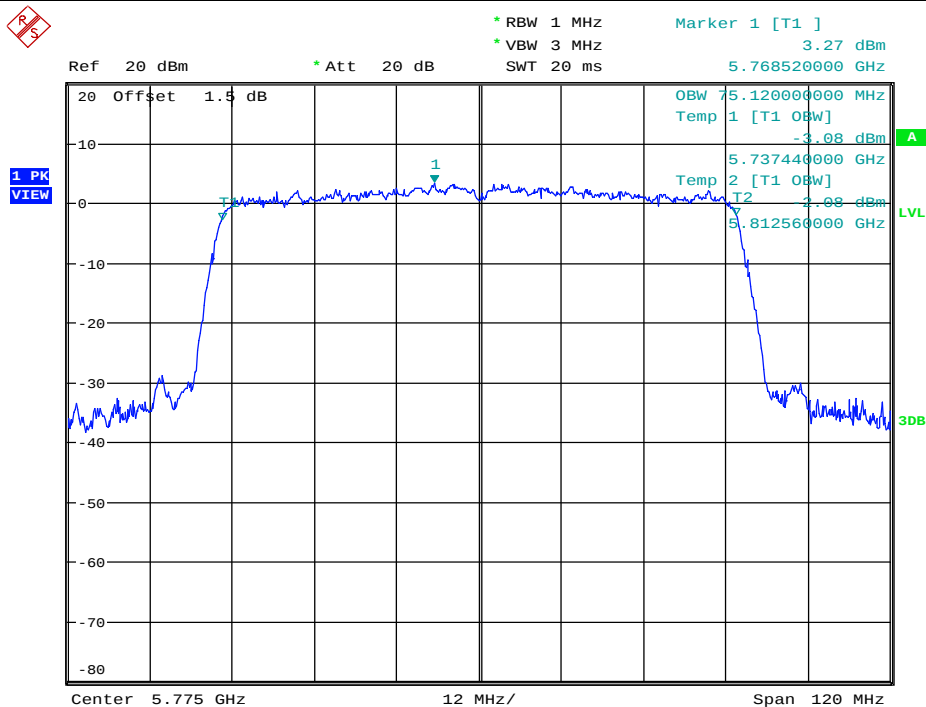
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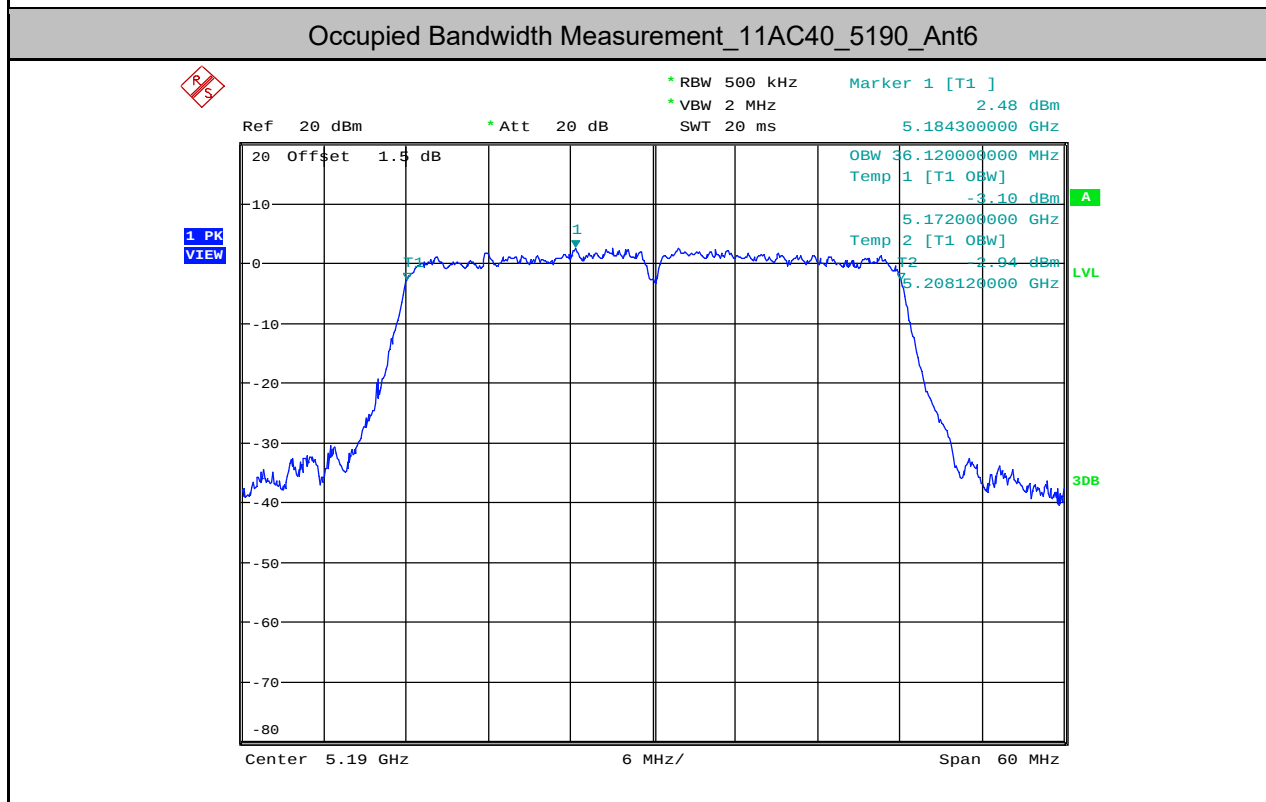
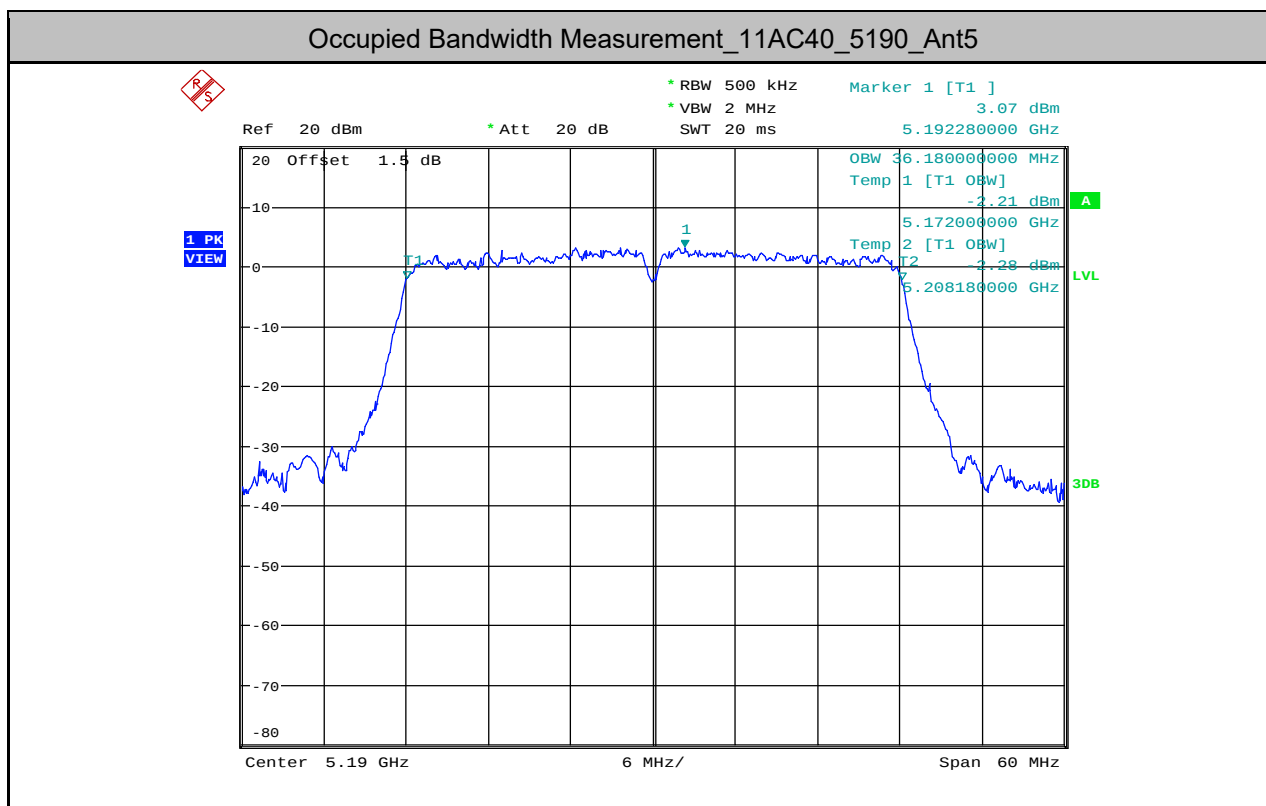
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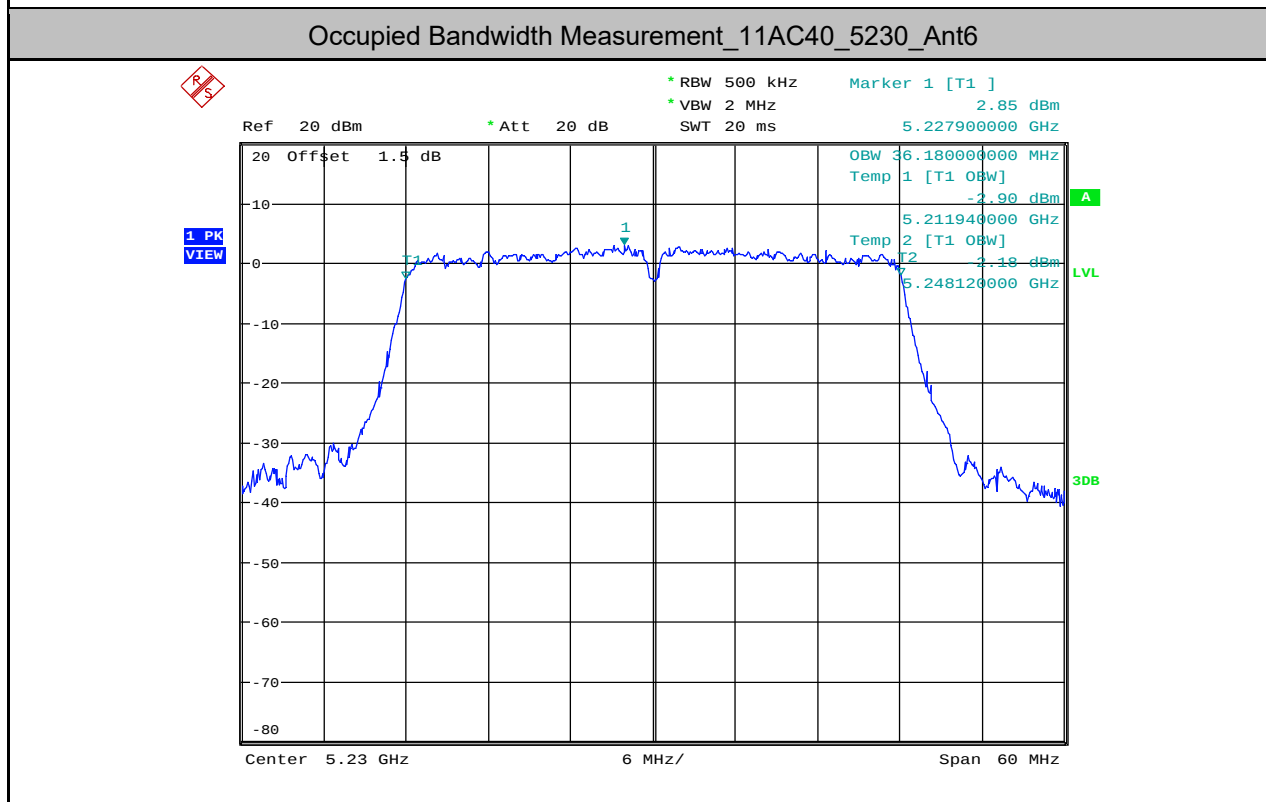
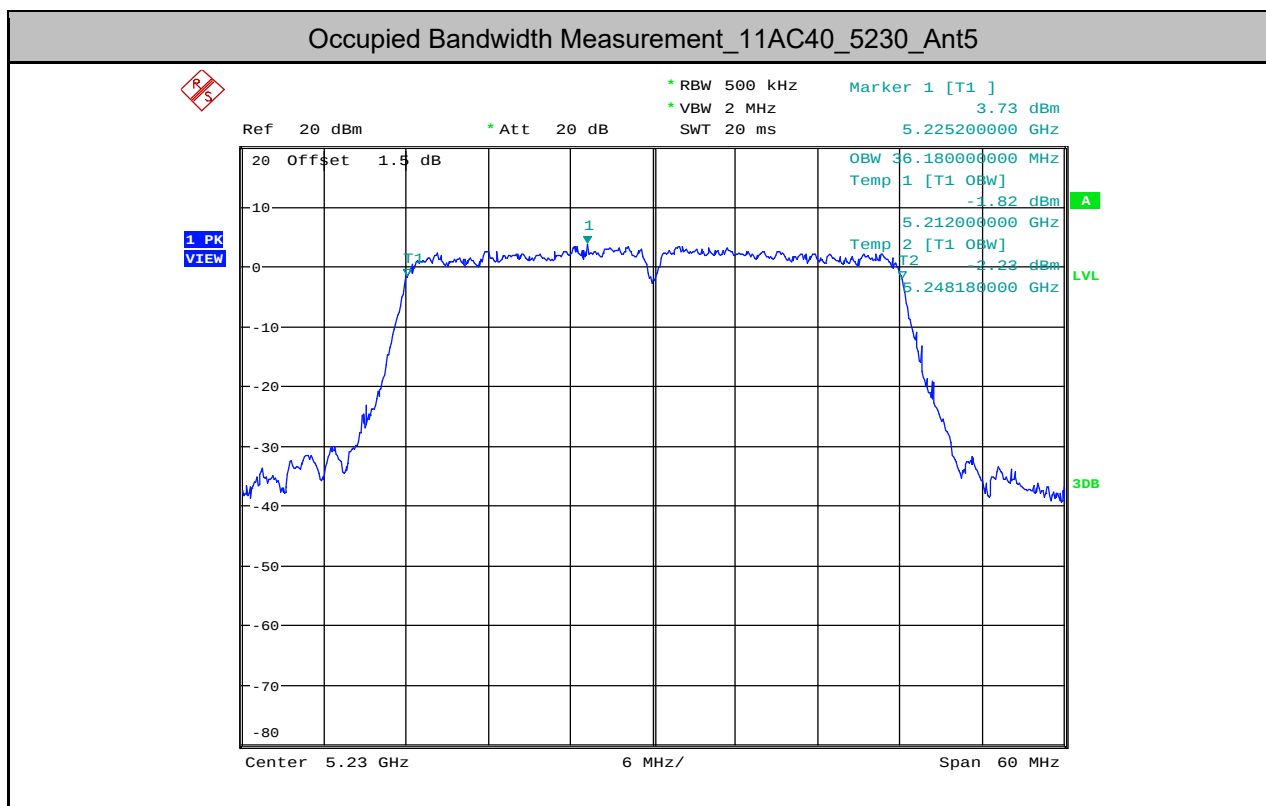
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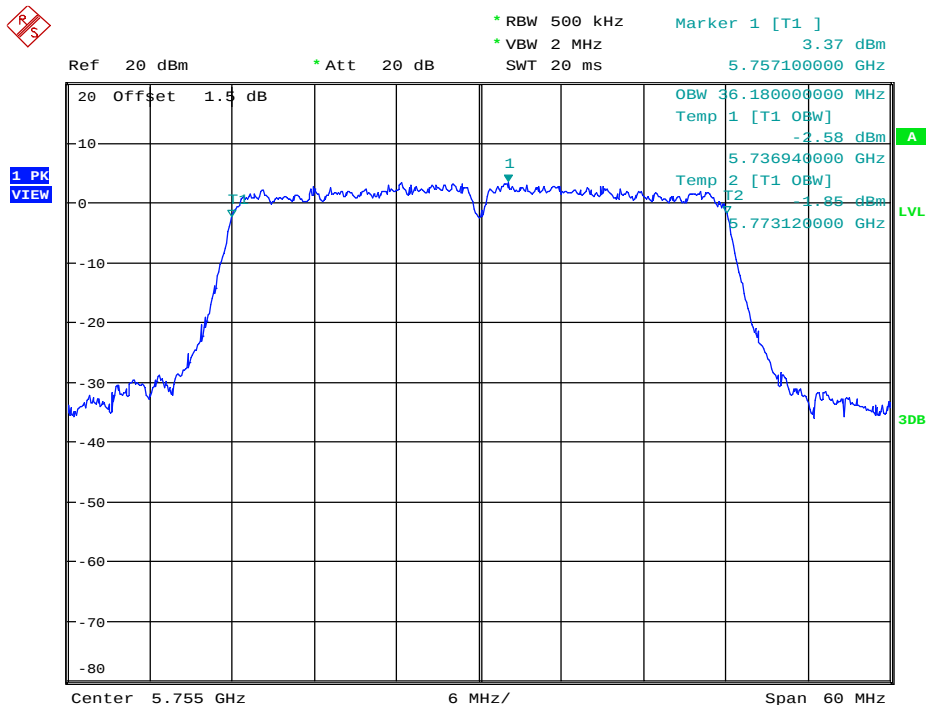


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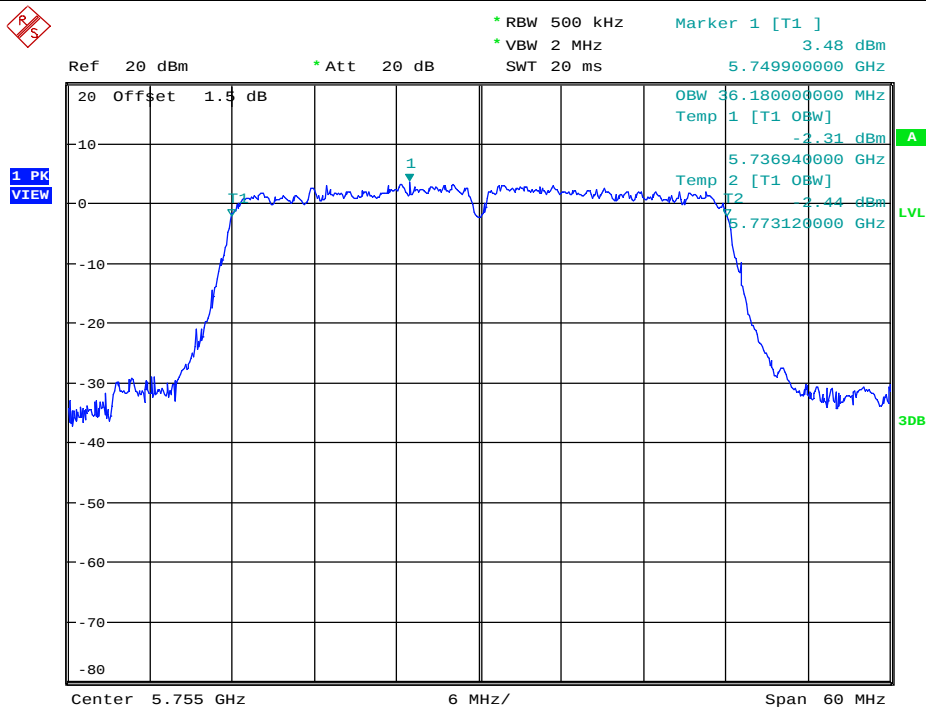
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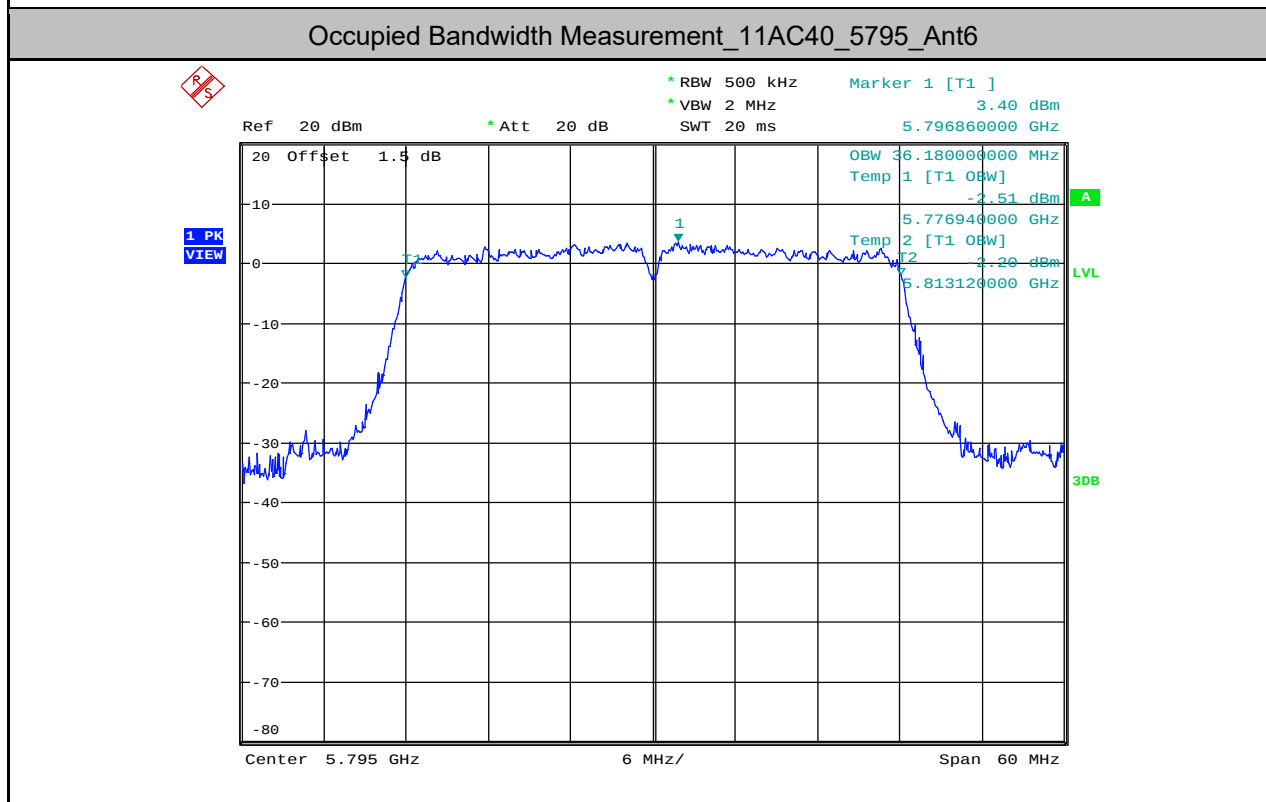
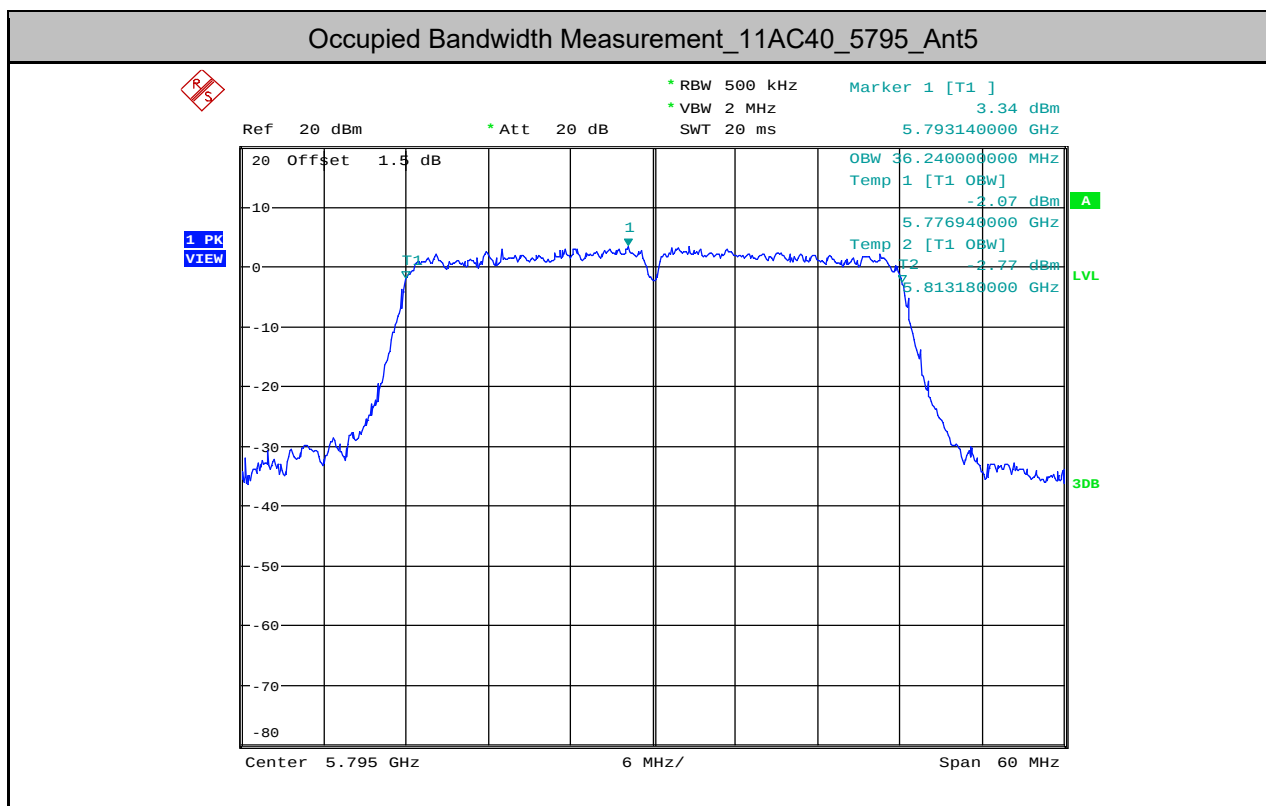
Occupied Bandwidth Measurement_11AC40_5755_Ant5



Occupied Bandwidth Measurement_11AC40_5755_Ant6



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3.Maximum Conduct Output Power

Test Mode	Test Channel	Ant	Level [dBm]	10log(1/x) Factor [dB]	Power [dBm]	Limit [dBm]	Verdict
11A	5180	Ant5	11.82	0.25	12.07	<23.98	PASS
11A	5180	Ant6	12.62	0.19	12.81	<23.98	PASS
11A	5220	Ant5	11.86	0.5	12.36	<23.98	PASS
11A	5220	Ant6	12.67	0.43	13.10	<23.98	PASS
11A	5240	Ant5	11.97	0.42	12.39	<23.98	PASS
11A	5240	Ant6	12.66	0.28	12.94	<23.98	PASS
11A	5745	Ant5	11.53	0.25	11.78	<30.00	PASS
11A	5745	Ant6	12.62	0.42	13.04	<30.00	PASS
11A	5785	Ant5	11.73	0.42	12.15	<30.00	PASS
11A	5785	Ant6	12.62	0.39	13.01	<30.00	PASS
11A	5825	Ant5	12.02	0.35	12.37	<30.00	PASS
11A	5825	Ant6	12.25	0.51	12.76	<30.00	PASS
11N20	5180	Ant5	12.4	0.54	12.94	<23.98	PASS
11N20	5180	Ant6	11.24	0.37	11.61	<23.98	PASS
11N20	5220	Ant5	12.21	0.27	12.48	<23.98	PASS
11N20	5220	Ant6	11.7	0.53	12.23	<23.98	PASS
11N20	5240	Ant5	12.51	0.31	12.82	<23.98	PASS
11N20	5240	Ant6	11.87	0.27	12.14	<23.98	PASS
11N20	5745	Ant5	11.6	0.53	12.13	<30.00	PASS
11N20	5745	Ant6	11.65	0.36	12.01	<30.00	PASS
11N20	5785	Ant5	12.01	0.44	12.45	<30.00	PASS
11N20	5785	Ant6	11.65	0.27	11.92	<30.00	PASS
11N20	5825	Ant5	12.18	0.46	12.64	<30.00	PASS
11N20	5825	Ant6	11.39	0.44	11.83	<30.00	PASS
11N40	5190	Ant5	11.34	0.62	11.96	<23.98	PASS
11N40	5190	Ant6	10.79	0.59	11.38	<23.98	PASS
11N40	5230	Ant5	11.78	0.38	12.16	<23.98	PASS
11N40	5230	Ant6	11.23	0.57	11.80	<23.98	PASS
11N40	5755	Ant5	11.48	0.71	12.19	<30.00	PASS



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11N40	5755	Ant6	11.34	0.48	11.82	<30.00	PASS
11N40	5795	Ant5	11.56	0.32	11.88	<30.00	PASS
11N40	5795	Ant6	11.72	0.6	12.32	<30.00	PASS
11AC20	5180	Ant5	11.97	0.43	12.40	<23.98	PASS
11AC20	5180	Ant6	10.87	0.26	11.13	<23.98	PASS
11AC20	5220	Ant5	11.93	0.4	12.33	<23.98	PASS
11AC20	5220	Ant6	11.11	0.23	11.34	<23.98	PASS
11AC20	5240	Ant5	11.79	0.5	12.29	<23.98	PASS
11AC20	5240	Ant6	11.26	0.56	11.82	<23.98	PASS
11AC20	5745	Ant5	11.27	0.44	11.71	<30.00	PASS
11AC20	5745	Ant6	12.35	0.55	12.90	<30.00	PASS
11AC20	5785	Ant5	10.74	0.47	11.21	<30.00	PASS
11AC20	5785	Ant6	12.39	0.53	12.92	<30.00	PASS
11AC20	5825	Ant5	10.82	0.37	11.19	<30.00	PASS
11AC20	5825	Ant6	12.03	0.32	12.35	<30.00	PASS
11AC80	5210	Ant5	10.74	0.72	11.46	<23.98	PASS
11AC80	5210	Ant6	10.26	1.26	11.52	<23.98	PASS
11AC80	5775	Ant5	10.47	1.85	12.32	<30.00	PASS
11AC80	5775	Ant6	9.98	1.26	11.24	<30.00	PASS
11AC40	5190	Ant5	11.56	0.97	12.53	<23.98	PASS
11AC40	5190	Ant6	10.89	1.08	11.97	<23.98	PASS
11AC40	5230	Ant5	11.85	1.04	12.89	<23.98	PASS
11AC40	5230	Ant6	11.22	0.84	12.06	<23.98	PASS
11AC40	5755	Ant5	11.58	0.76	12.34	<30.00	PASS
11AC40	5755	Ant6	11.45	0.75	12.20	<30.00	PASS
11AC40	5795	Ant5	12	0.43	12.43	<30.00	PASS
11AC40	5795	Ant6	12.02	0.43	12.45	<30.00	PASS

MIMO:

Test Mode	Test Channel	Ant	Power [dBm]	EIRP [dBm]	Conducted power Limit [dBm]	EIRP Limit [dBm]	Verdict
11N20	5180	Ant5+6	15.34	/	<23.98	/	PASS
11N20	5220	Ant5+6	15.37	/	<23.98	/	PASS
11N20	5240	Ant5+6	15.50	/	<23.98	/	PASS
11N20	5745	Ant5+6	15.08	/	<30.00	/	PASS
11N20	5785	Ant5+6	15.20	/	<30.00	/	PASS
11N20	5825	Ant5+6	15.26	/	<30.00	/	PASS
11N40	5190	Ant5+6	14.69	/	<23.98	/	PASS
11N40	5230	Ant5+6	14.99	/	<23.98	/	PASS
11N40	5755	Ant5+6	15.02	/	<30.00	/	PASS
11N40	5795	Ant5+6	15.12	/	<30.00	/	PASS
11AC20	5180	Ant5+6	14.82	/	<23.98	/	PASS
11AC20	5220	Ant5+6	14.87	/	<23.98	/	PASS
11AC20	5240	Ant5+6	15.07	/	<23.98	/	PASS
11AC20	5745	Ant5+6	15.36	/	<30.00	/	PASS
11AC20	5785	Ant5+6	15.16	/	<30.00	/	PASS
11AC20	5825	Ant5+6	14.82	/	<30.00	/	PASS
11AC80	5210	Ant5+6	14.50	/	<23.98	/	PASS
11AC80	5775	Ant5+6	14.82	/	<30.00	/	PASS
11AC40	5190	Ant5+6	15.27	/	<23.98	/	PASS
11AC40	5230	Ant5+6	15.51	/	<23.98	/	PASS
11AC40	5755	Ant5+6	15.28	/	<30.00	/	PASS
11AC40	5795	Ant5+6	15.45	/	<30.00	/	PASS

Note: Since the number of transmit antennas is less than 4, Array gain=0dB.



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4. Maximum Power Spectral Density

Test Mode	Test Channel	Ant	Level [dBm/MHz]	10log(1/x) Factor [dB]	PSD [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	5180	Ant5	2.95	0.25	3.2	<11.00	PASS
11A	5180	Ant6	3.76	0.19	3.95	<11.00	PASS
11A	5220	Ant5	2.63	0.5	3.13	<11.00	PASS
11A	5220	Ant6	3.83	0.43	4.26	<11.00	PASS
11A	5240	Ant5	2.94	0.42	3.36	<11.00	PASS
11A	5240	Ant6	3.93	0.28	4.21	<11.00	PASS
11N20	5180	Ant5	3.15	0.54	3.69	<11.00	PASS
11N20	5180	Ant6	2	0.37	2.37	<11.00	PASS
11N20	5220	Ant5	3.08	0.27	3.35	<11.00	PASS
11N20	5220	Ant6	2.47	0.53	3	<11.00	PASS
11N20	5240	Ant5	3.3	0.31	3.61	<11.00	PASS
11N20	5240	Ant6	2.75	0.27	3.02	<11.00	PASS
11N40	5190	Ant5	-0.68	0.62	-0.06	<11.00	PASS
11N40	5190	Ant6	-1.09	0.59	-0.5	<11.00	PASS
11N40	5230	Ant5	-0.31	0.38	0.07	<11.00	PASS
11N40	5230	Ant6	-1	0.57	-0.43	<11.00	PASS
11AC20	5180	Ant5	1.86	0.43	2.29	<11.00	PASS
11AC20	5180	Ant6	1.63	0.26	1.89	<11.00	PASS
11AC20	5220	Ant5	1.74	0.4	2.14	<11.00	PASS
11AC20	5220	Ant6	1.95	0.23	2.18	<11.00	PASS
11AC20	5240	Ant5	1.64	0.5	2.14	<11.00	PASS
11AC20	5240	Ant6	2.72	0.56	3.28	<11.00	PASS
11AC80	5210	Ant5	-3.29	0.72	-2.57	<11.00	PASS
11AC80	5210	Ant6	-3.8	1.26	-2.54	<11.00	PASS
11AC40	5190	Ant5	-0.34	0.97	0.63	<11.00	PASS
11AC40	5190	Ant6	-1.19	1.08	-0.11	<11.00	PASS
11AC40	5230	Ant5	0.05	1.04	1.09	<11.00	PASS
11AC40	5230	Ant6	-0.83	0.84	0.01	<11.00	PASS

Test Mode	Test Channel	Ant	Level [dBm/500kHz]	10log(1/x) Factor[dB]	10log (500kHz/RBW) Factor [dB]	PSD [dBm/500kHz]	Limit [dBm/500kHz]	Verdict
11A	5745	Ant5	0.97	0.25	0	1.22	<30.00	PASS
11A	5745	Ant6	1.97	0.42	0	2.39	<30.00	PASS
11A	5785	Ant5	1.27	0.42	0	1.69	<30.00	PASS
11A	5785	Ant6	2.02	0.39	0	2.41	<30.00	PASS
11A	5825	Ant5	1.66	0.35	0	2.01	<30.00	PASS
11A	5825	Ant6	1.67	0.51	0	2.18	<30.00	PASS
11N20	5745	Ant5	1.6	0.53	0	2.13	<30.00	PASS
11N20	5745	Ant6	1.71	0.36	0	2.07	<30.00	PASS
11N20	5785	Ant5	1.5	0.44	0	1.94	<30.00	PASS
11N20	5785	Ant6	1.13	0.27	0	1.4	<30.00	PASS
11N20	5825	Ant5	2.02	0.46	0	2.48	<30.00	PASS
11N20	5825	Ant6	0.88	0.44	0	1.32	<30.00	PASS
11N40	5755	Ant5	-2.01	0.71	0	-1.3	<30.00	PASS
11N40	5755	Ant6	-2.4	0.48	0	-1.92	<30.00	PASS
11N40	5795	Ant5	-1.99	0.32	0	-1.67	<30.00	PASS
11N40	5795	Ant6	-1.73	0.6	0	-1.13	<30.00	PASS
11AC20	5745	Ant5	-0.48	0.44	0	-0.04	<30.00	PASS
11AC20	5745	Ant6	1.73	0.55	0	2.28	<30.00	PASS
11AC20	5785	Ant5	0.1	0.47	0	0.57	<30.00	PASS
11AC20	5785	Ant6	1.79	0.53	0	2.32	<30.00	PASS
11AC20	5825	Ant5	0.32	0.37	0	0.69	<30.00	PASS
11AC20	5825	Ant6	1.49	0.32	0	1.81	<30.00	PASS
11AC80	5775	Ant5	-5.34	1.85	0	-3.49	<30.00	PASS
11AC80	5775	Ant6	-5.84	1.26	0	-4.58	<30.00	PASS
11AC40	5755	Ant5	-2.15	0.76	0	-1.39	<30.00	PASS
11AC40	5755	Ant6	-2.31	0.75	0	-1.56	<30.00	PASS
11AC40	5795	Ant5	-1.62	0.43	0	-1.19	<30.00	PASS
11AC40	5795	Ant6	-1.71	0.43	0	-1.28	<30.00	PASS

MIMO:

Test Mode	Test Channel	Ant	PSD [dBm/MHz]	Limit [dBm/MHz]	Verdict
11N20	5180	Ant5+6	6.09	<11.00	PASS
11N20	5220	Ant5+6	6.19	<11.00	PASS
11N20	5240	Ant5+6	6.34	<11.00	PASS
11N40	5190	Ant5+6	2.74	<11.00	PASS
11N40	5230	Ant5+6	2.84	<11.00	PASS
11AC20	5180	Ant5+6	5.10	<11.00	PASS
11AC20	5220	Ant5+6	5.17	<11.00	PASS
11AC20	5240	Ant5+6	5.76	<11.00	PASS
11AC80	5210	Ant5+6	0.46	<11.00	PASS
11AC40	5190	Ant5+6	3.29	<11.00	PASS
11AC40	5230	Ant5+6	3.59	<11.00	PASS

Test Mode	Test Channel	Ant	PSD [dBm/500kHz]	Limit [dBm/500kHz]	Verdict
11N20	5745	Ant5+6	5.11	<30	PASS
11N20	5785	Ant5+6	4.69	<30	PASS
11N20	5825	Ant5+6	4.95	<30	PASS
11N40	5755	Ant5+6	1.41	<30	PASS
11N40	5795	Ant5+6	1.62	<30	PASS
11AC20	5745	Ant5+6	4.28	<30	PASS
11AC20	5785	Ant5+6	4.54	<30	PASS
11AC20	5825	Ant5+6	4.30	<30	PASS
11AC80	5775	Ant5+6	-0.99	<30	PASS
11AC40	5755	Ant5+6	1.54	<30	PASS
11AC40	5795	Ant5+6	1.78	<30	PASS

Note: Since the number of transmit antennas is less than 4, Array gain=10*log2= 3.01dB.

Directional gain =Antenna Gain+10*log2=5.01dBi.

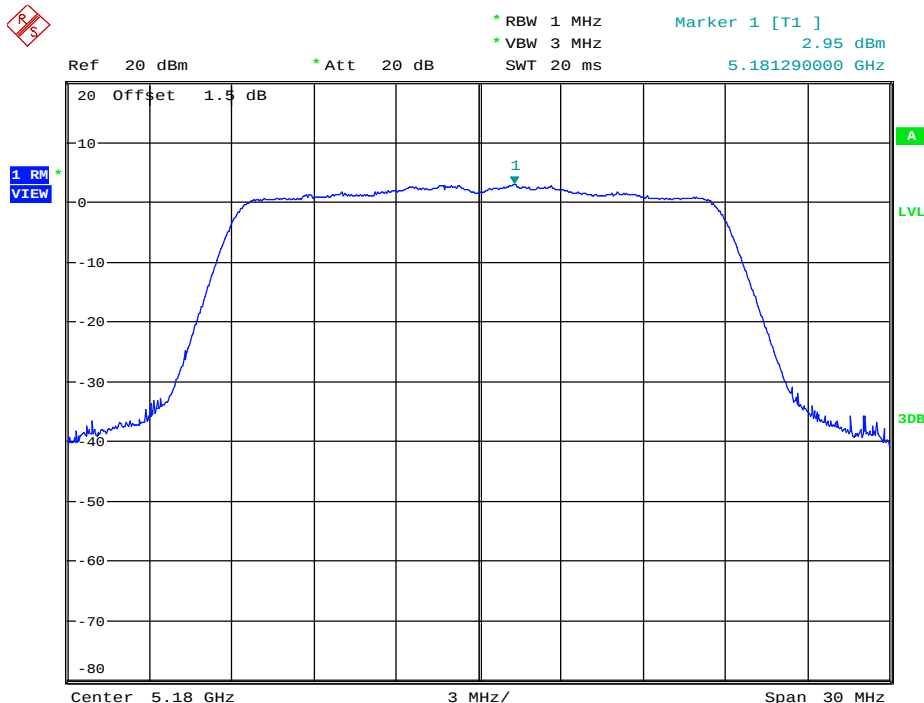


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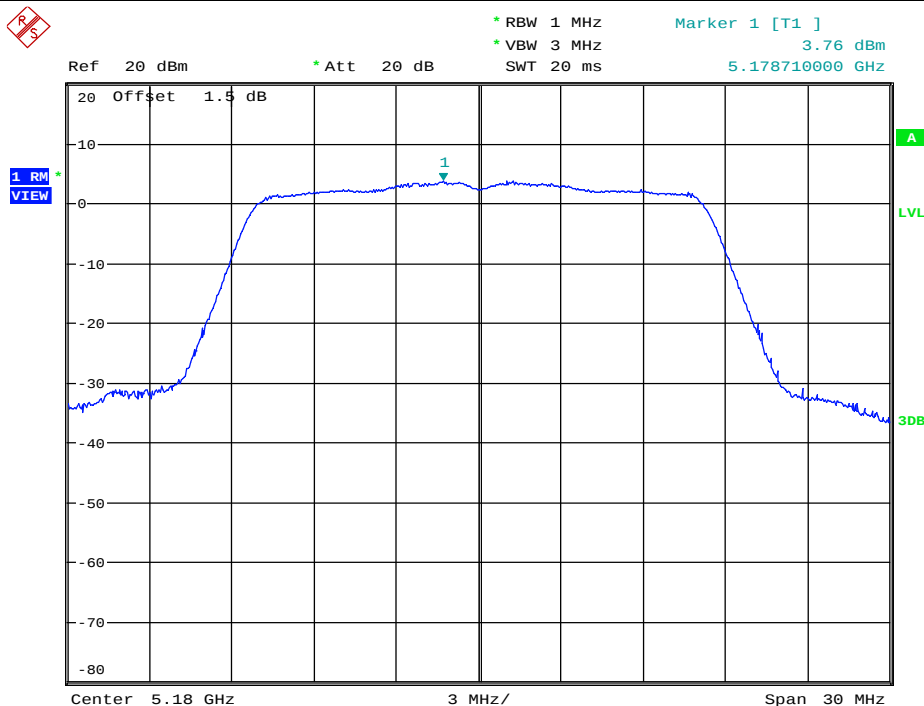
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Maximum Power Spectral Density_TNVN_11A_5180_Ant5



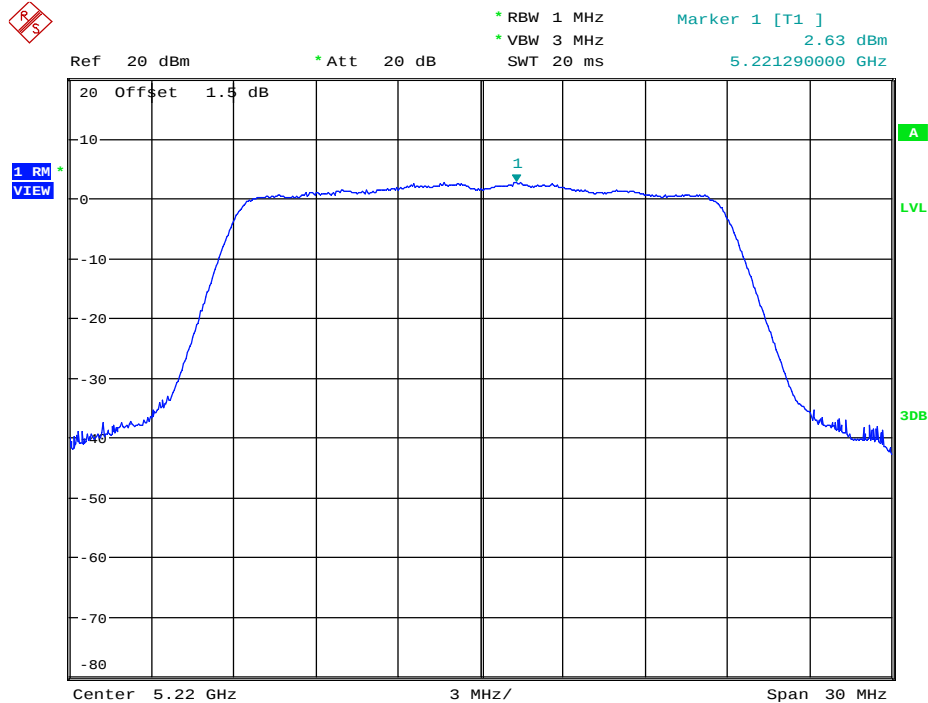
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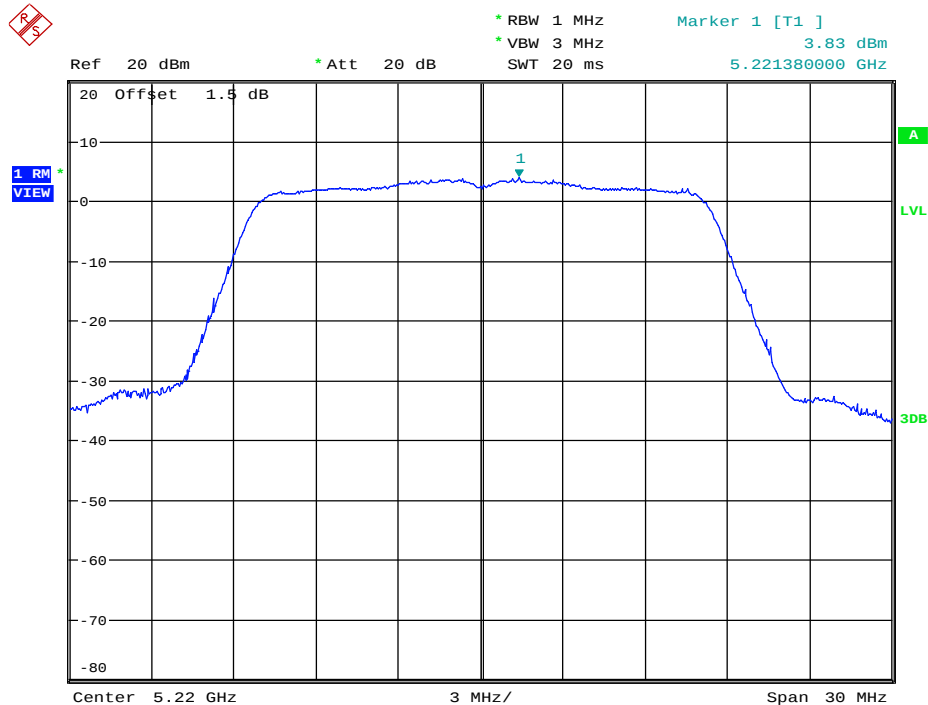
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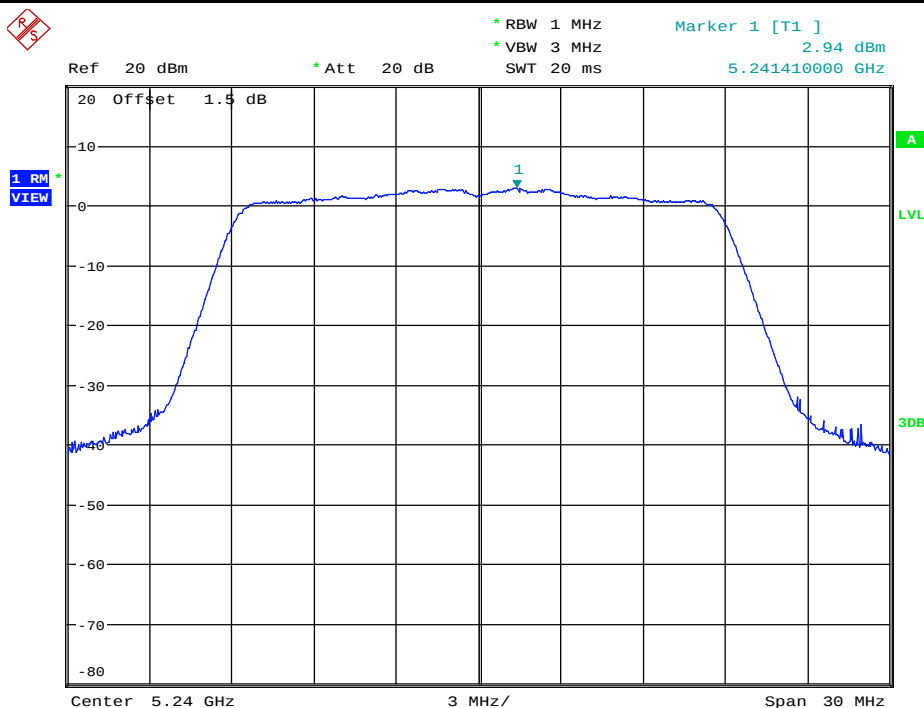
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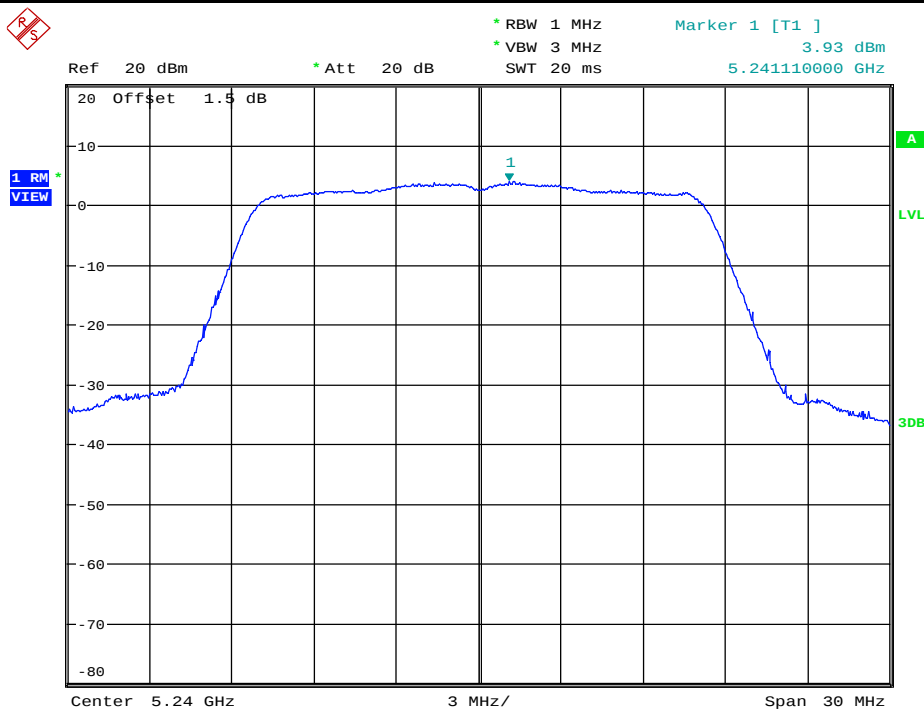
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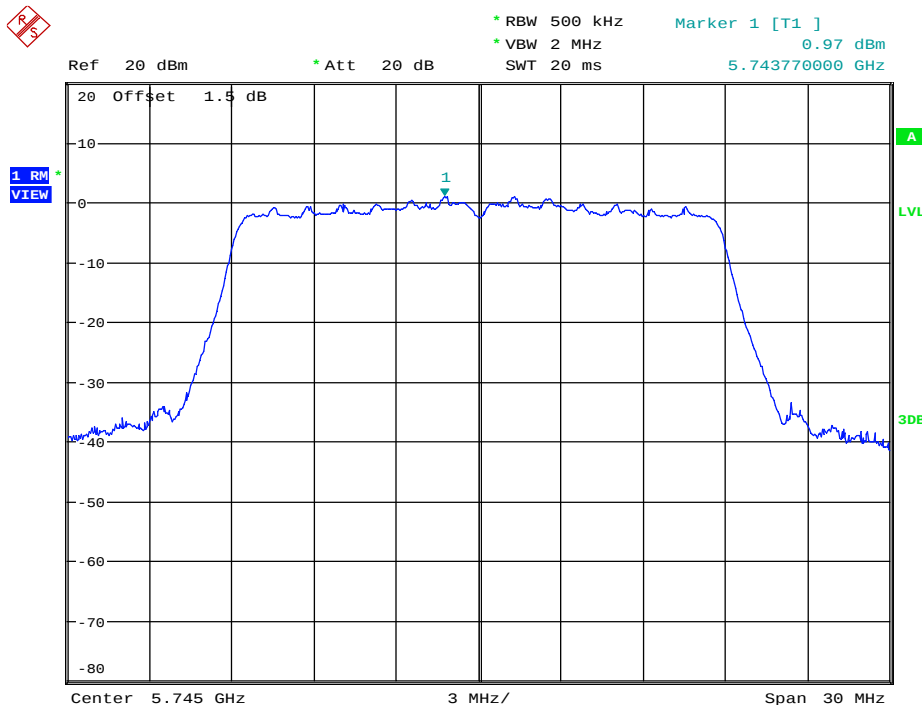
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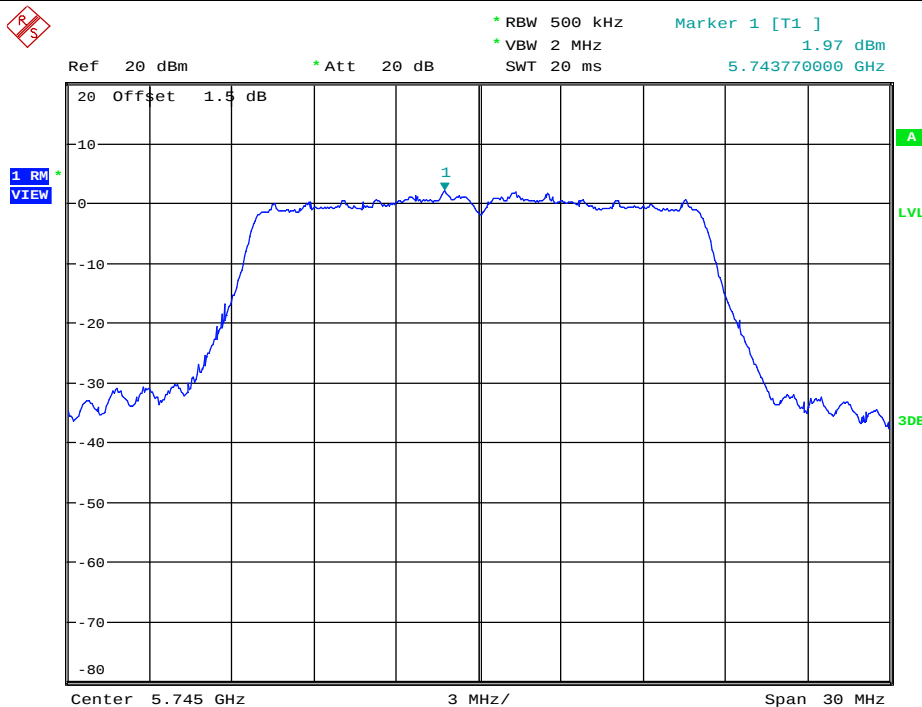
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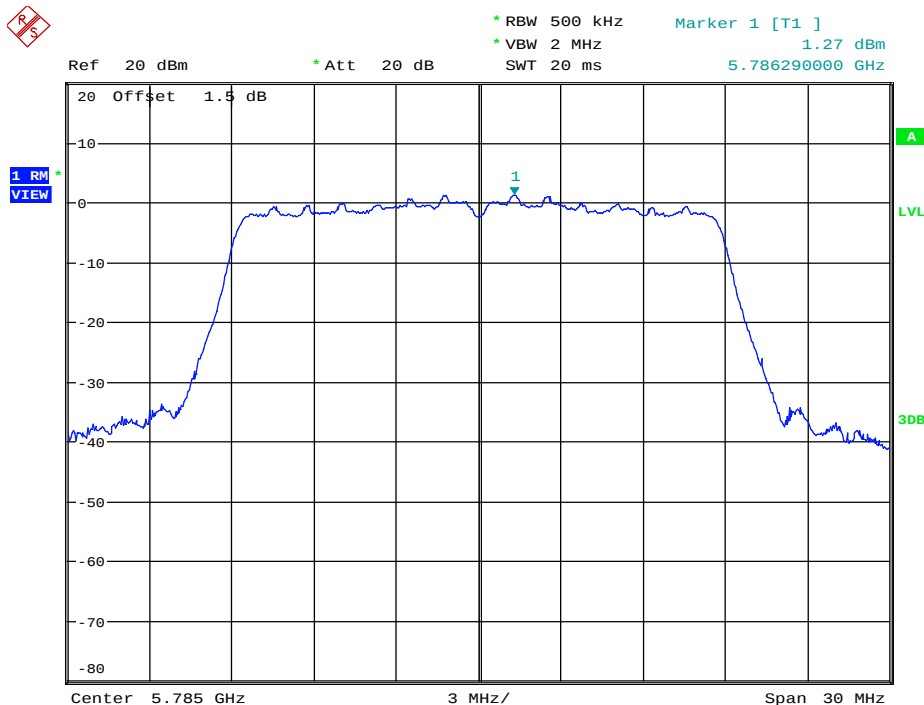
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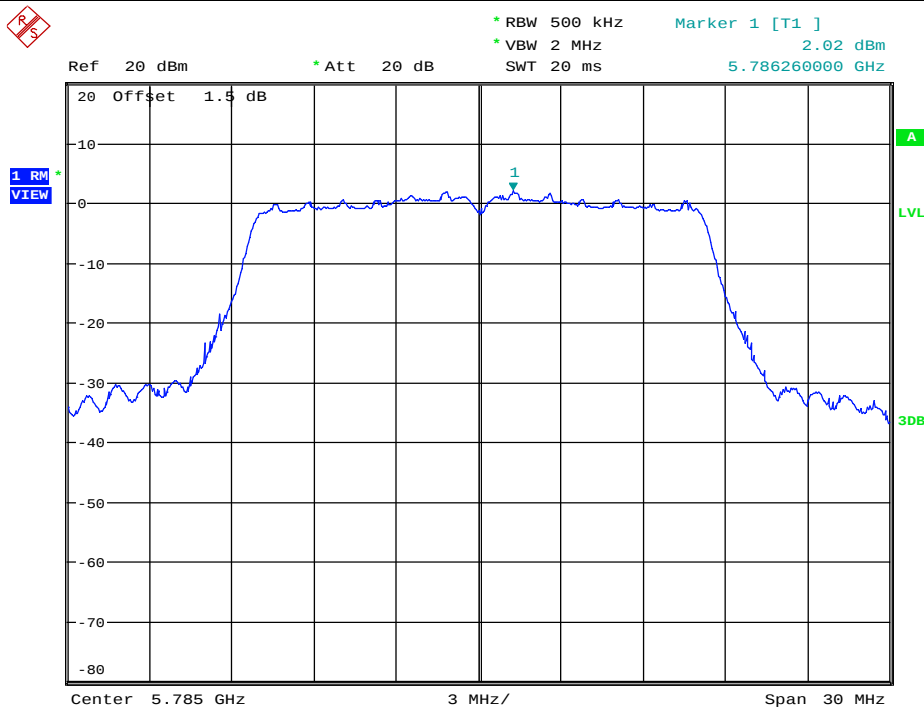
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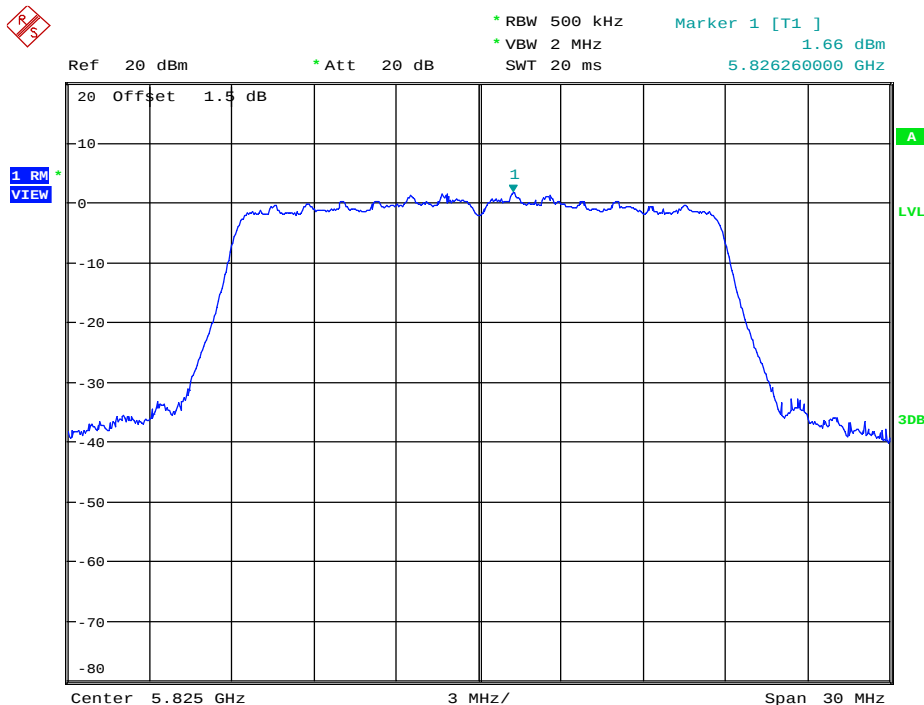
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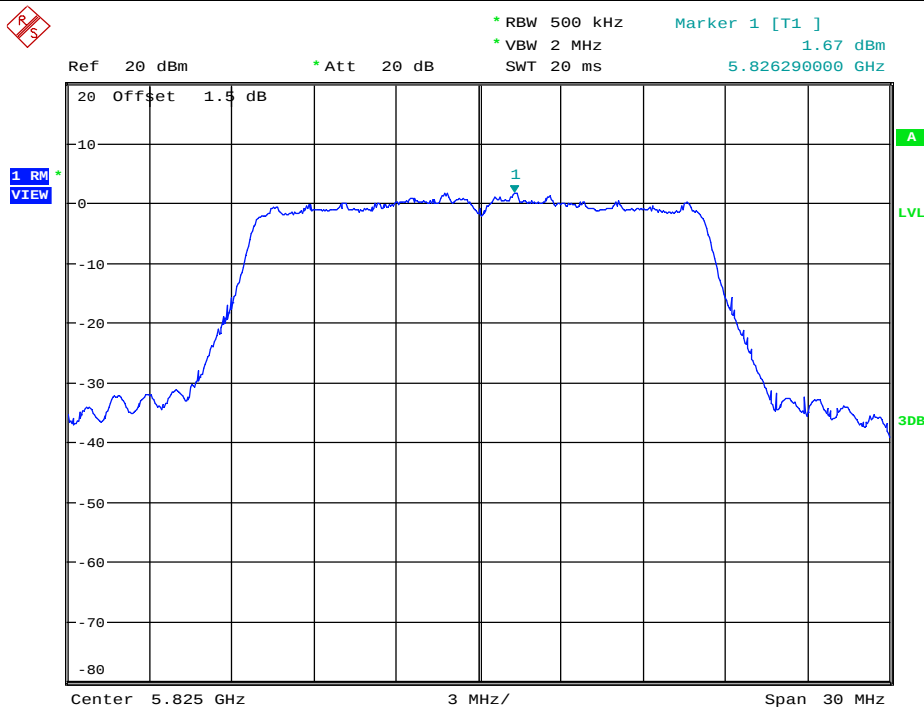
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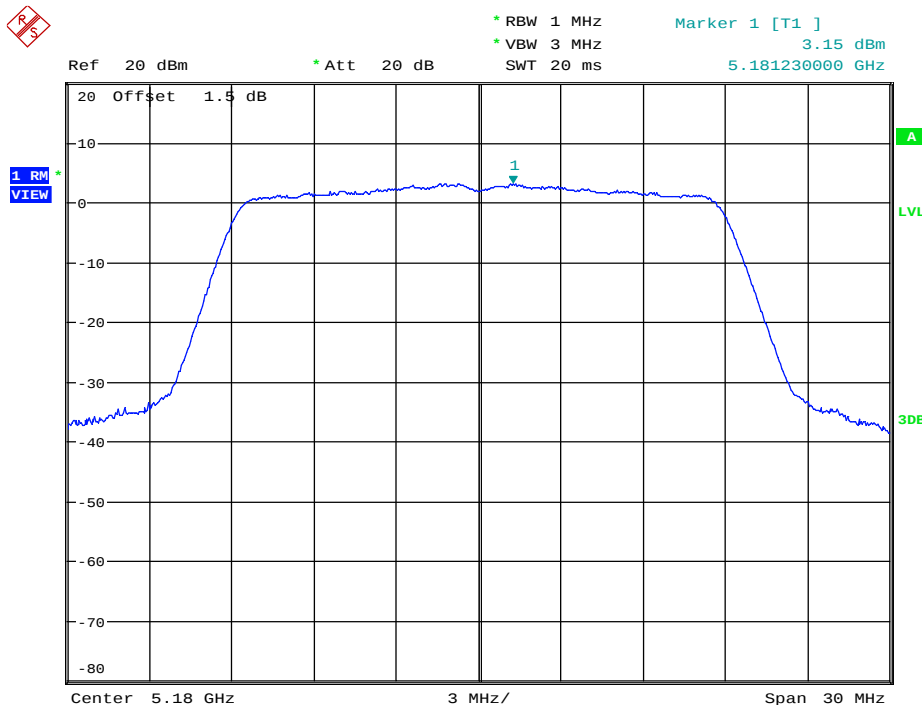
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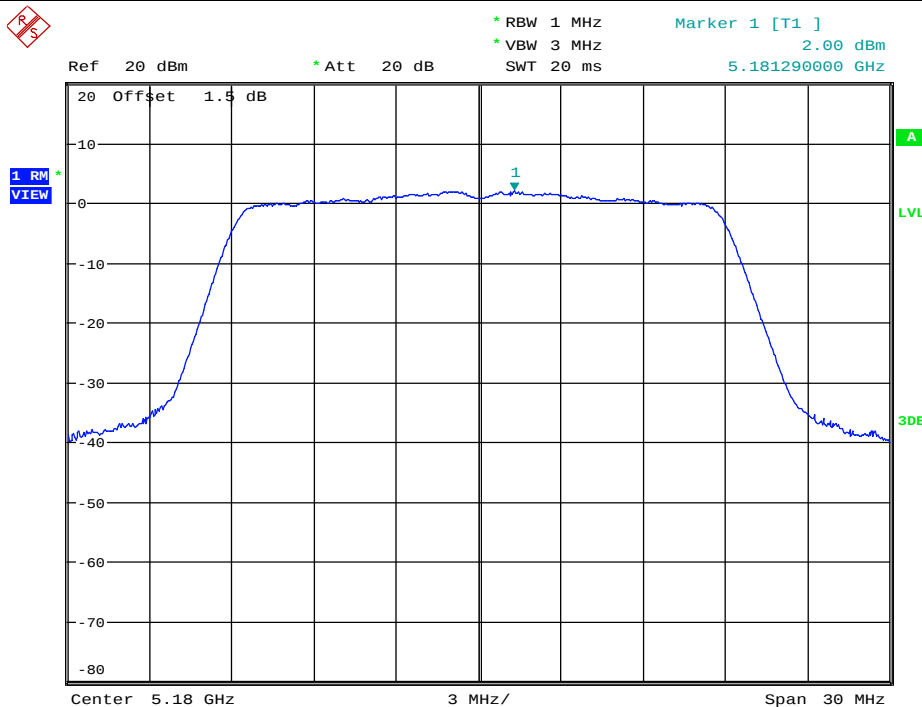
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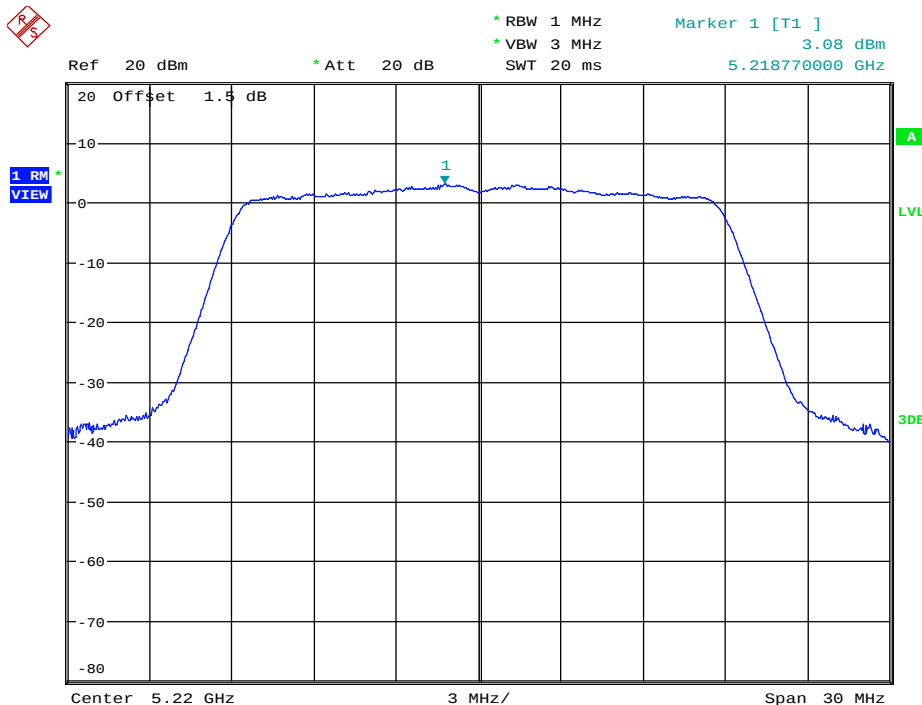
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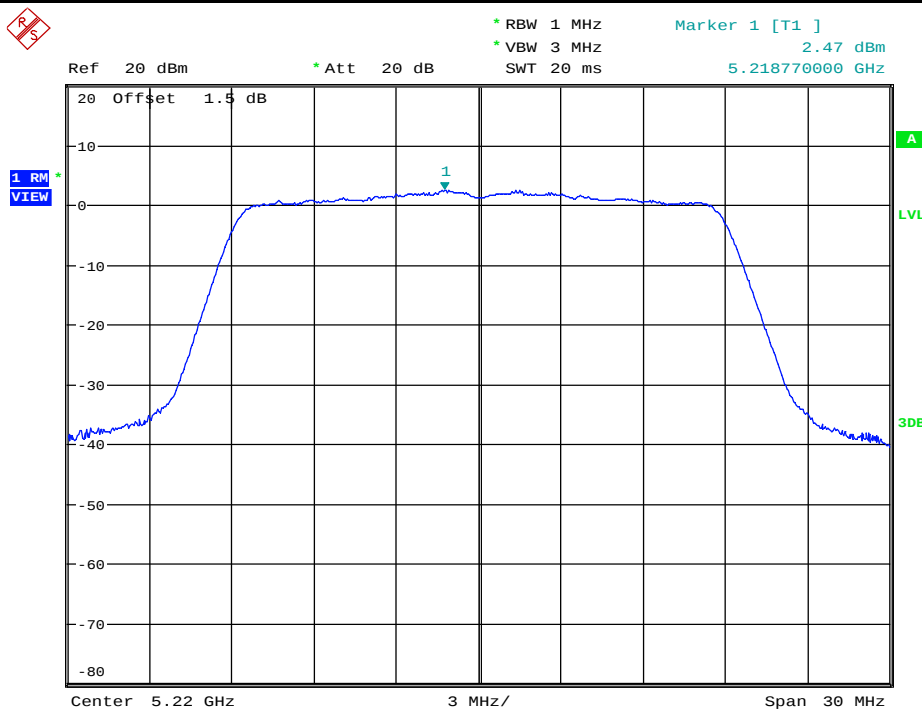
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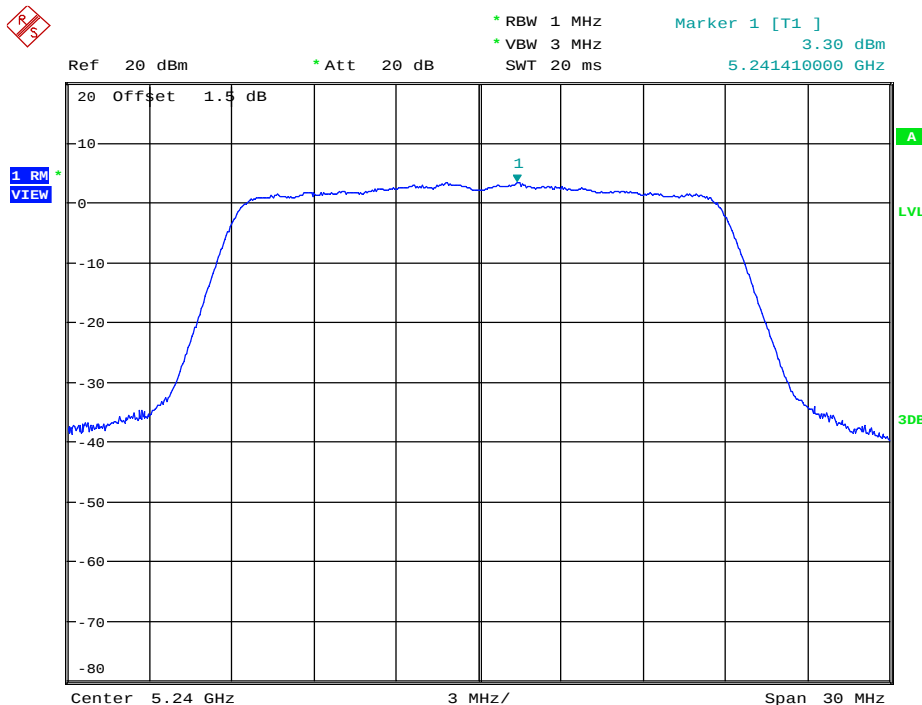
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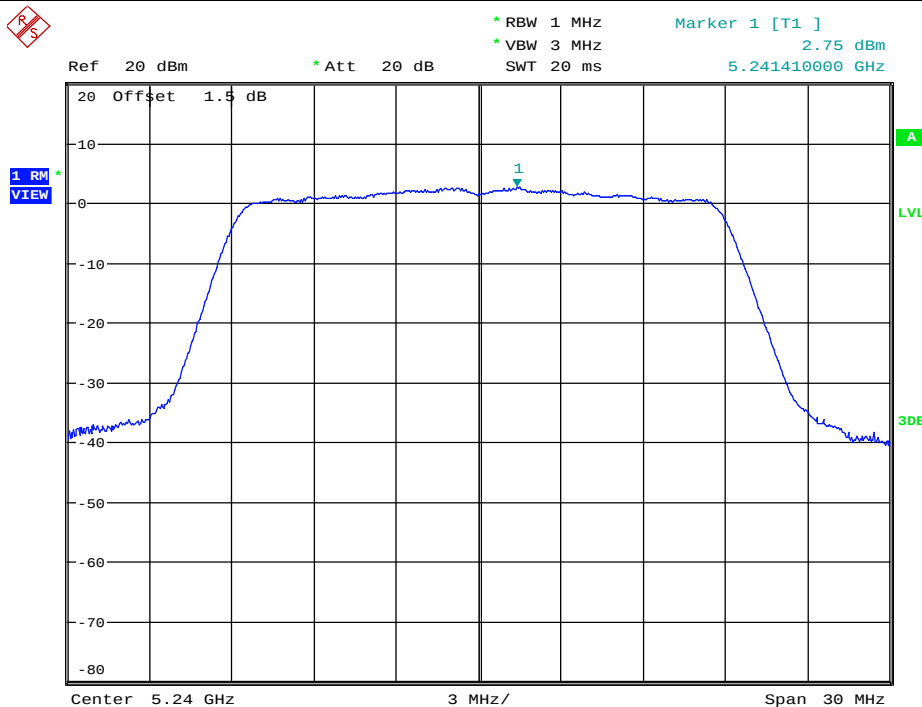
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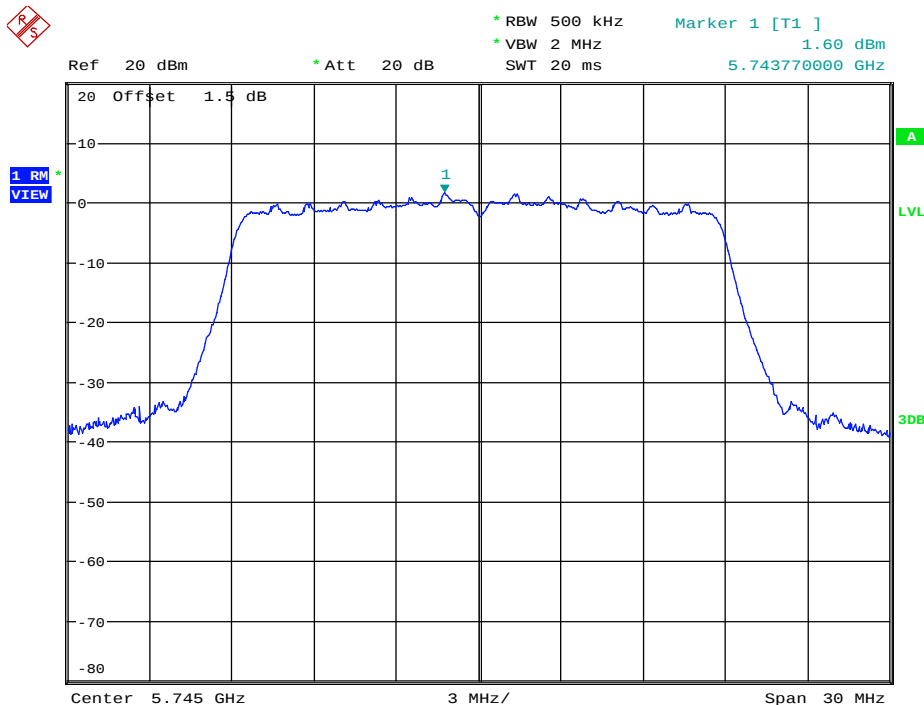
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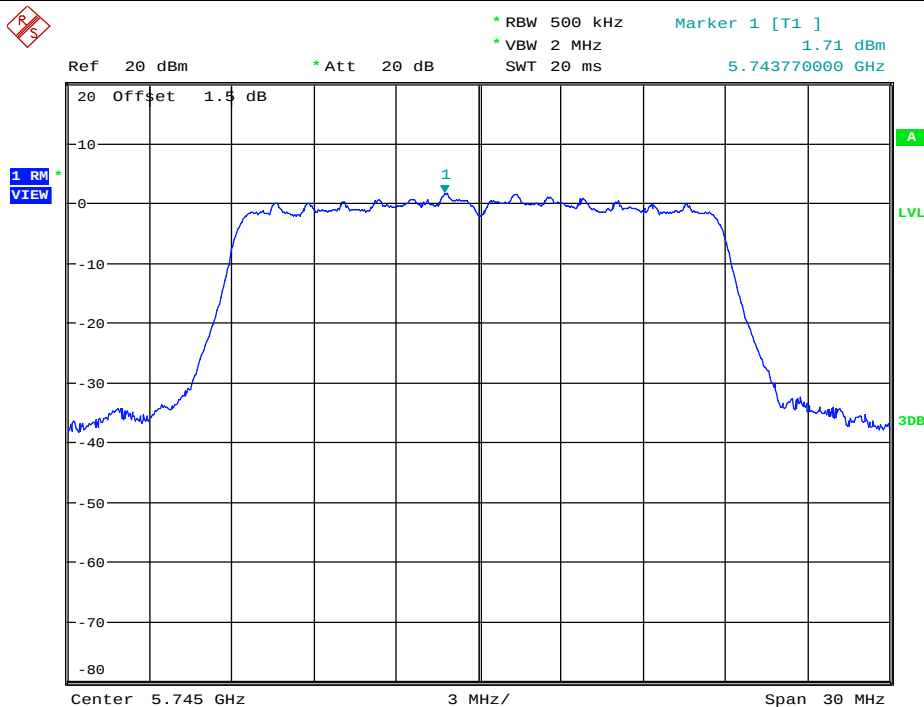
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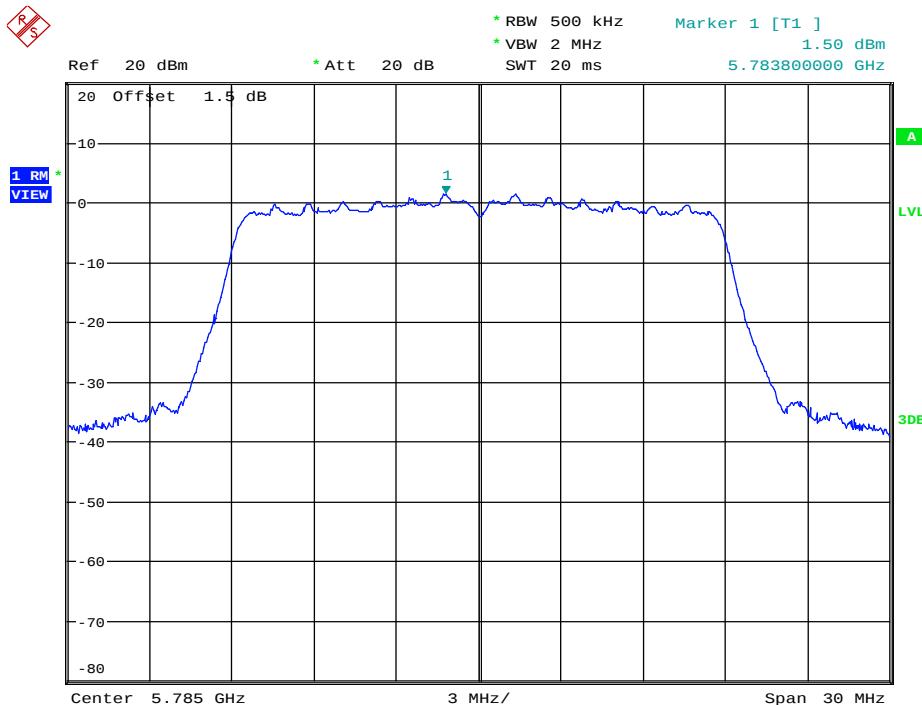
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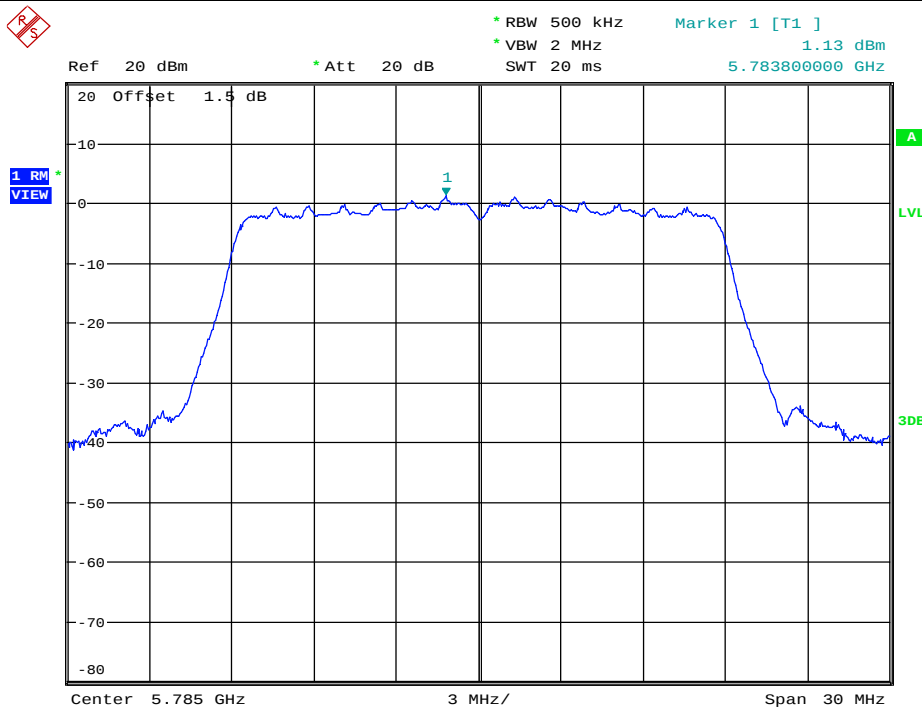
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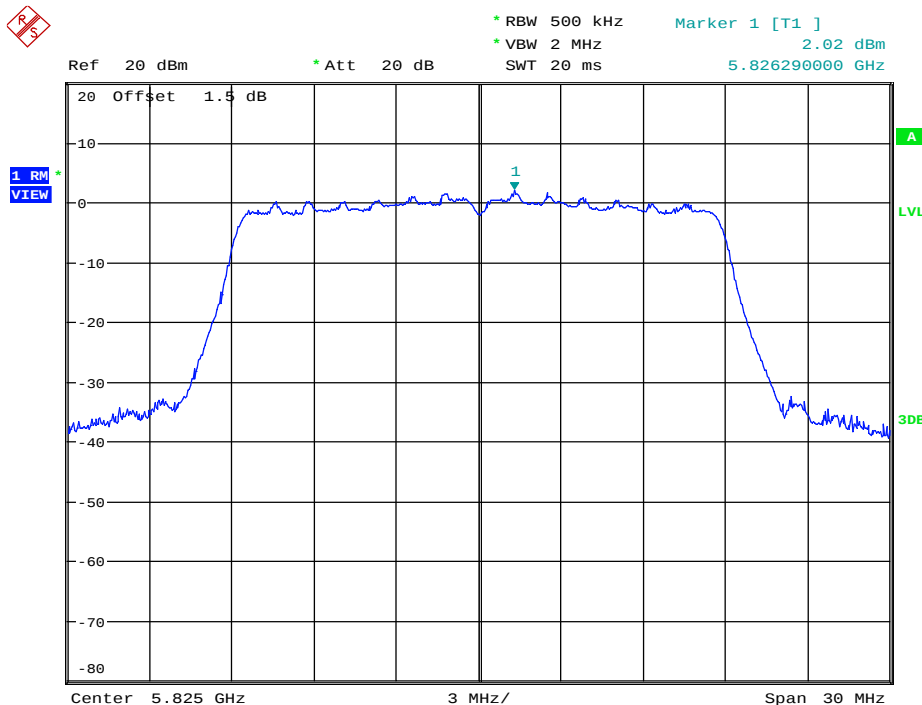
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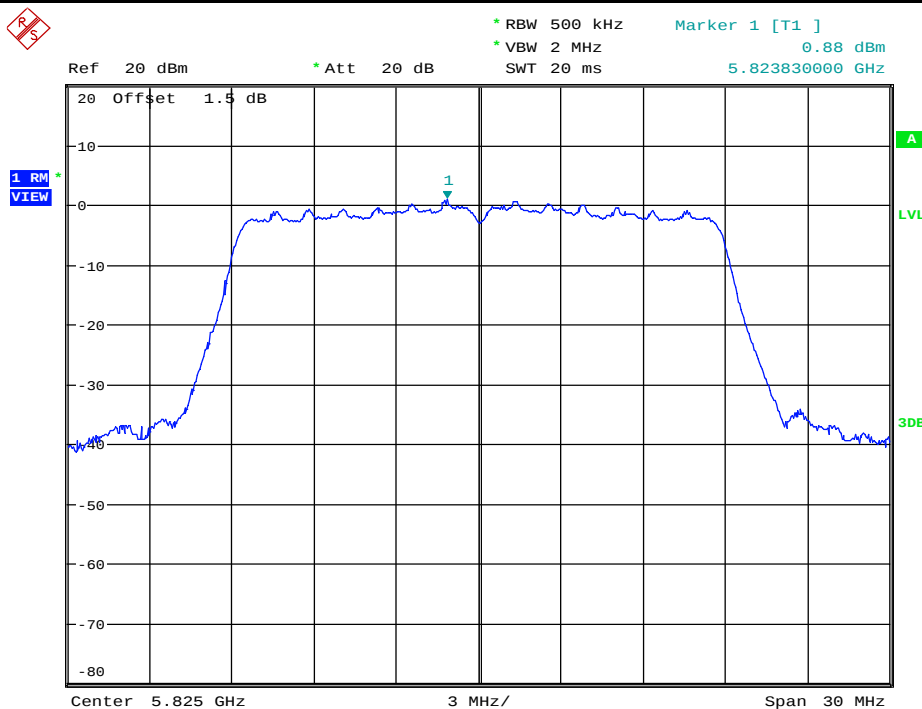
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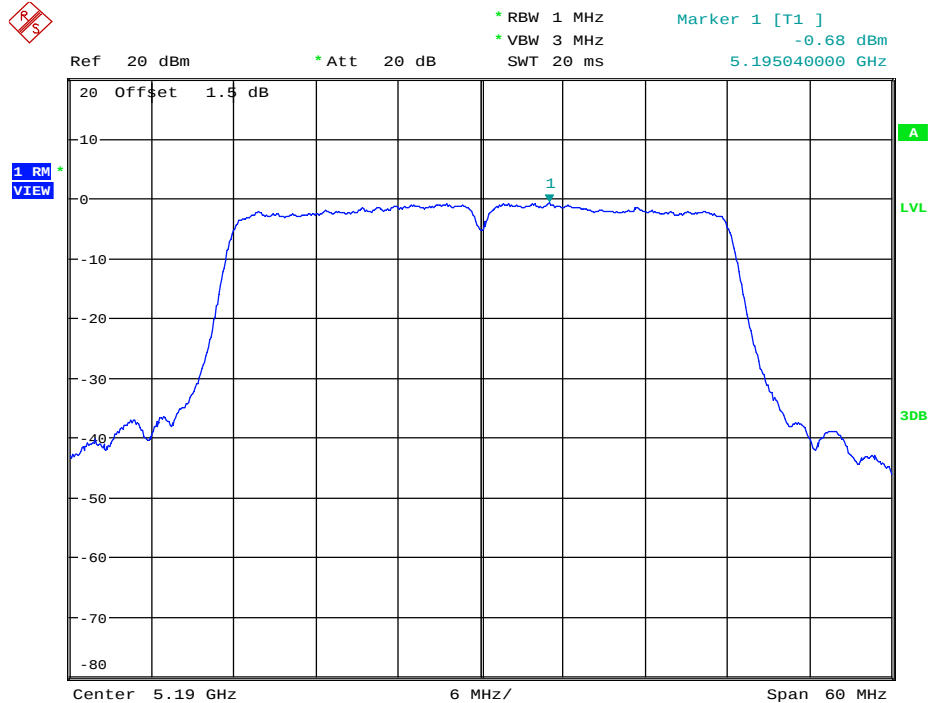
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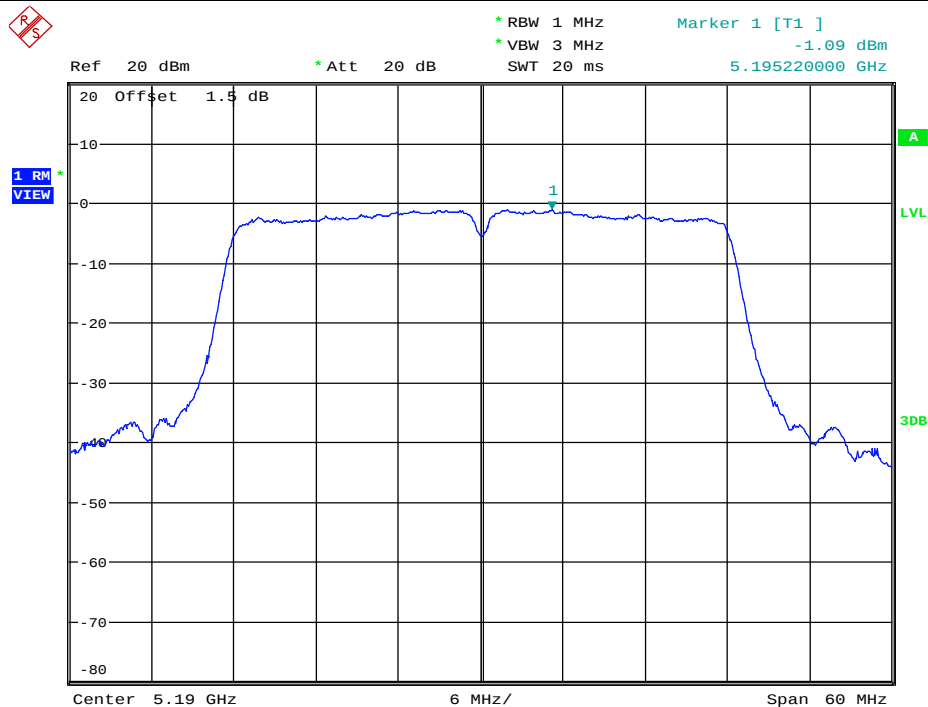
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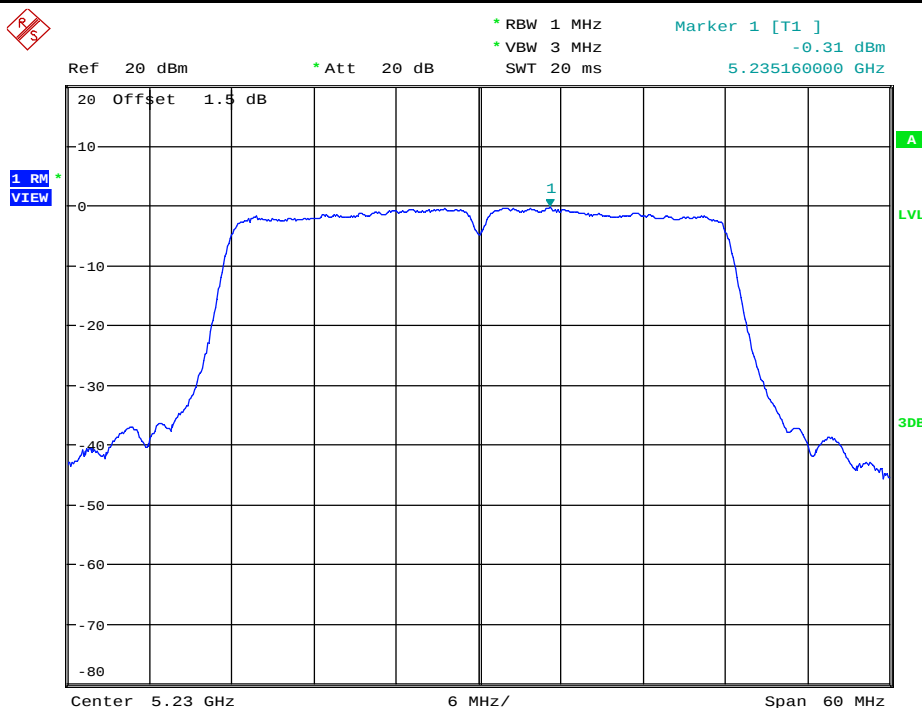
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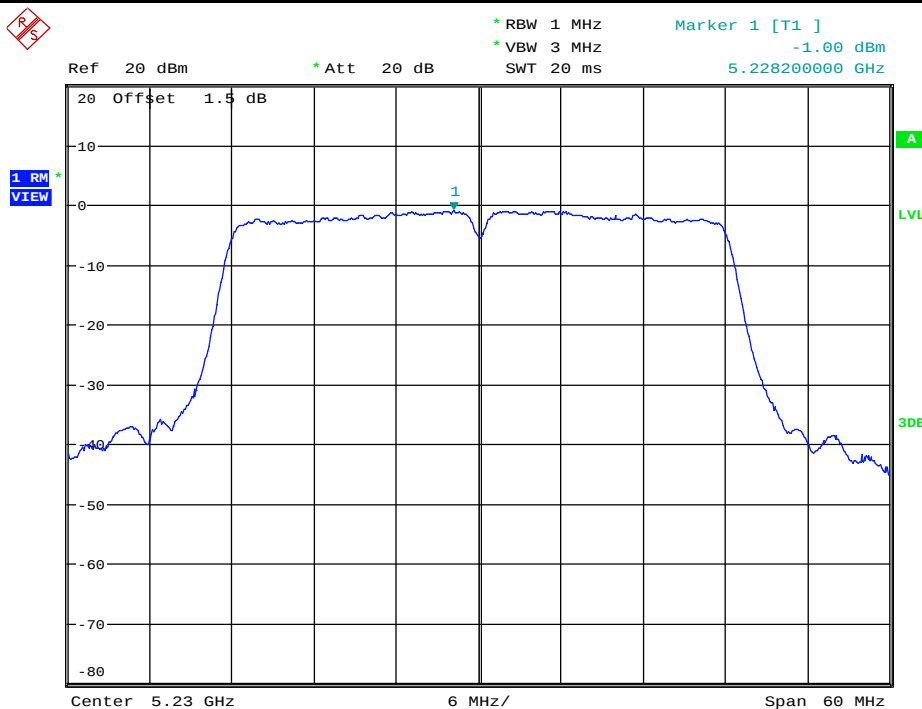
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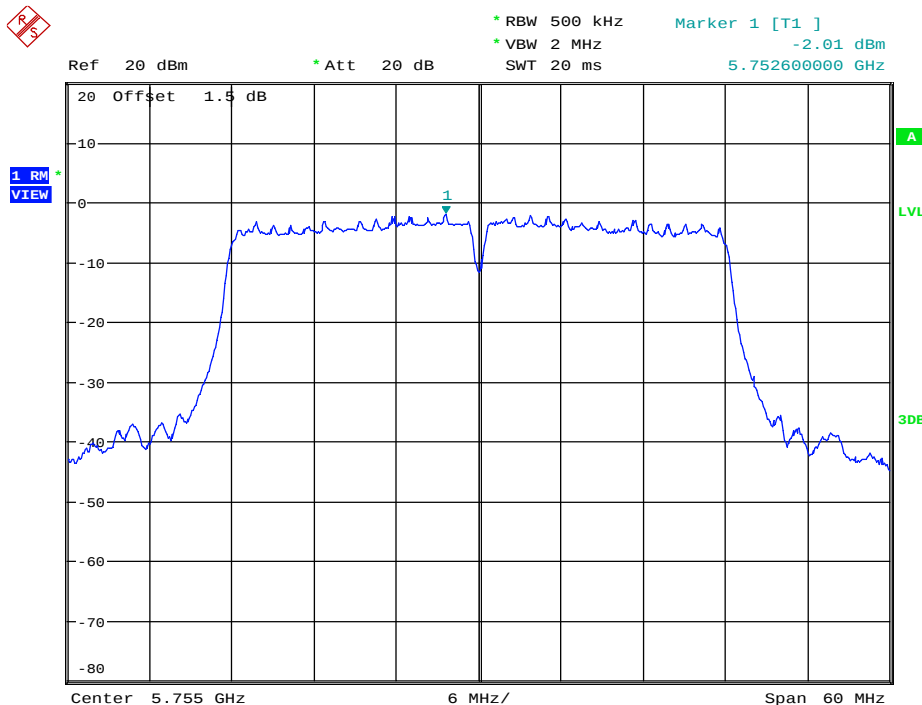
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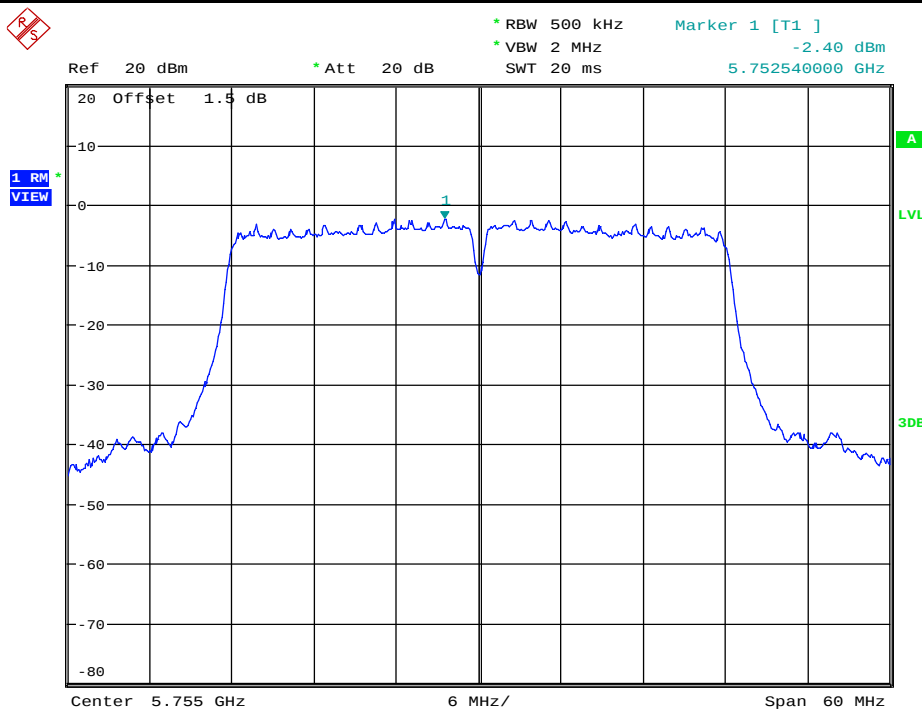
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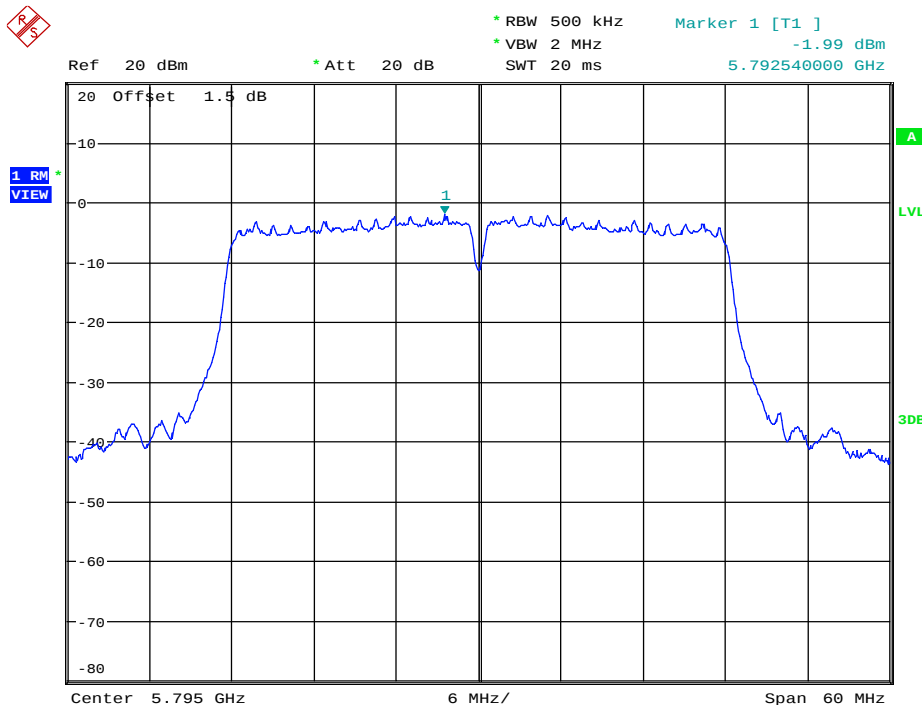
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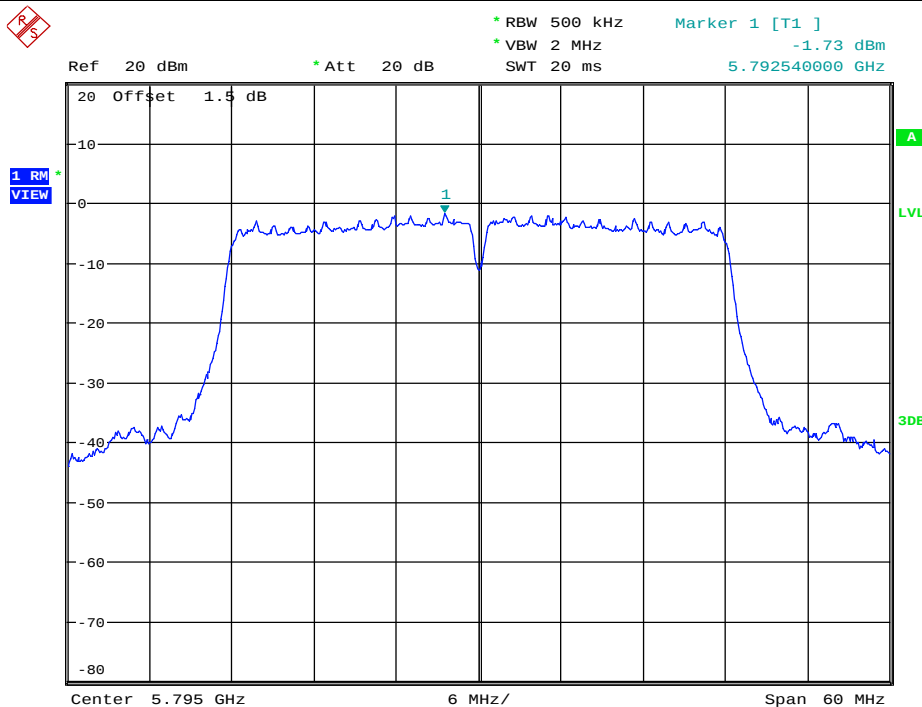
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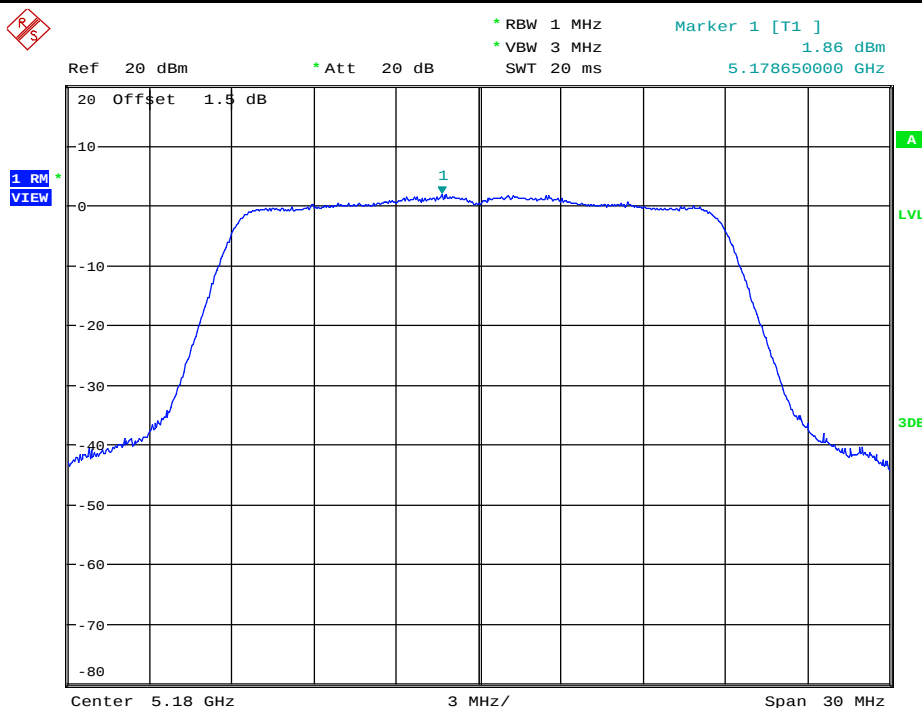
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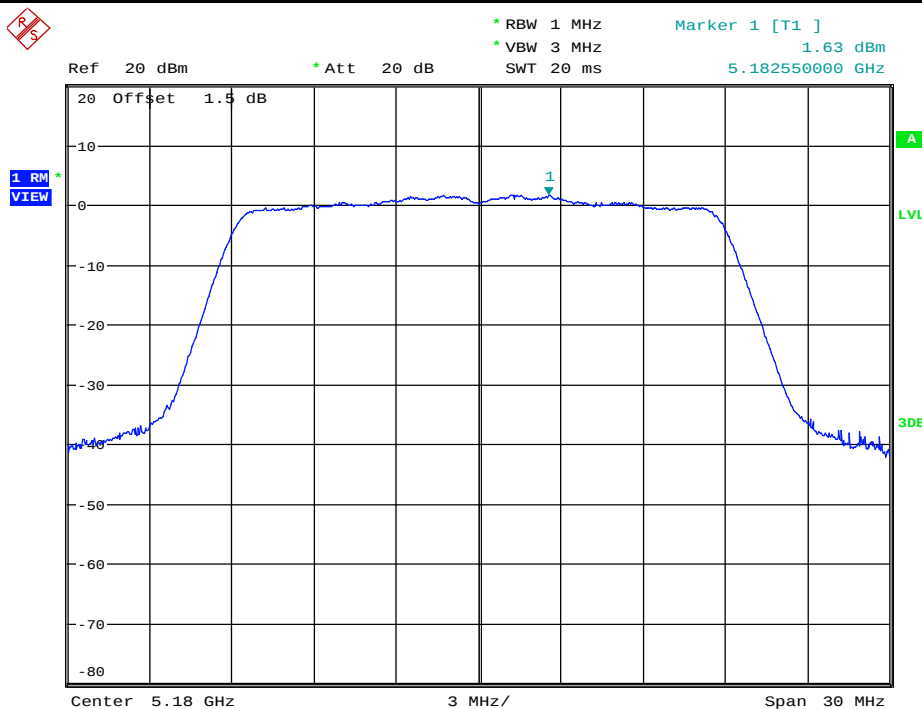
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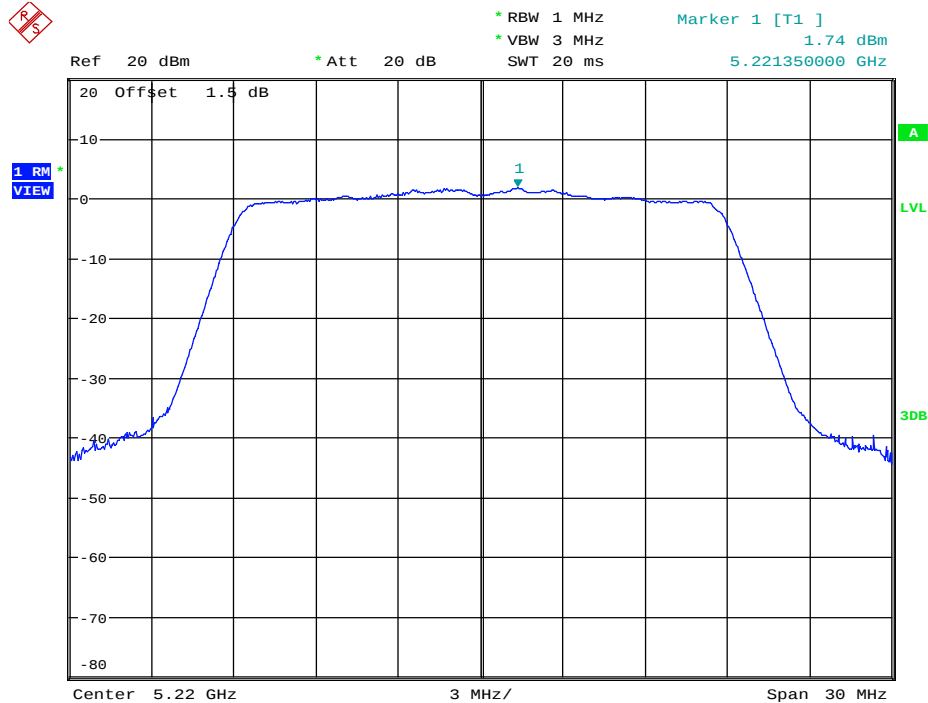
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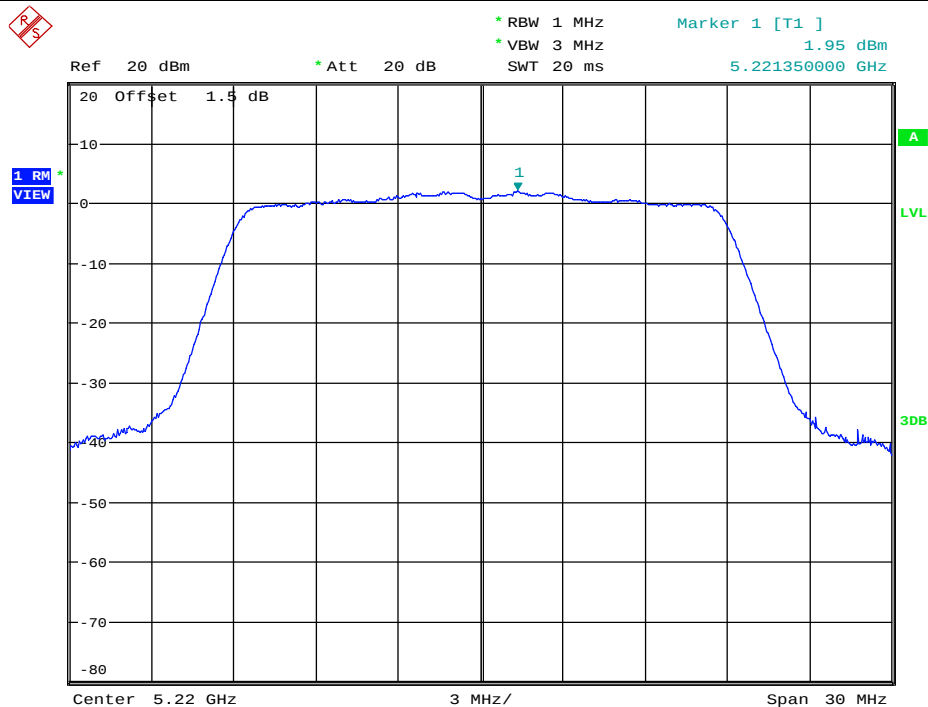
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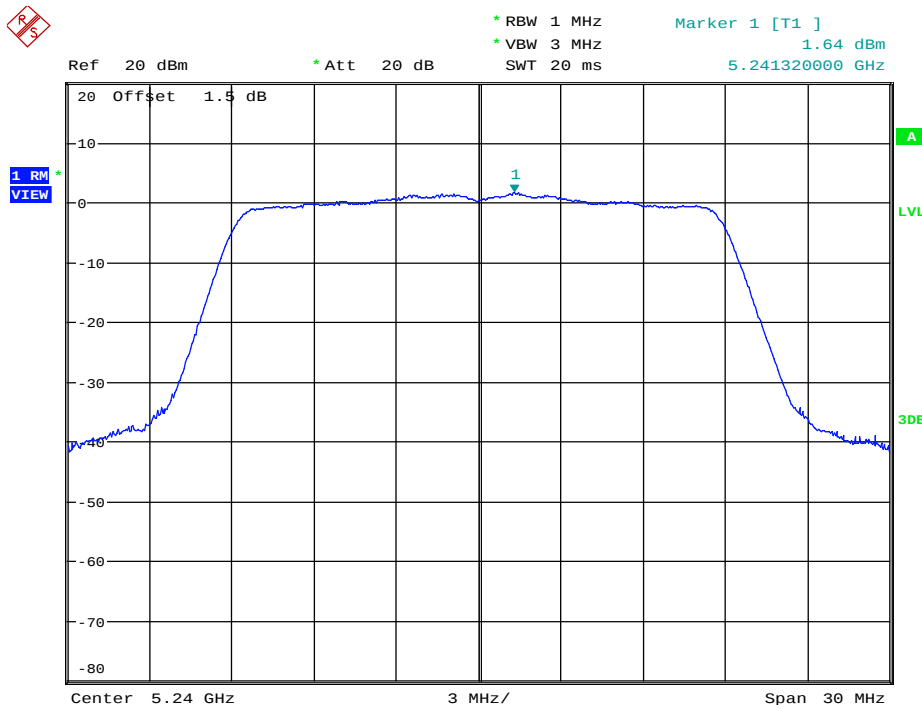
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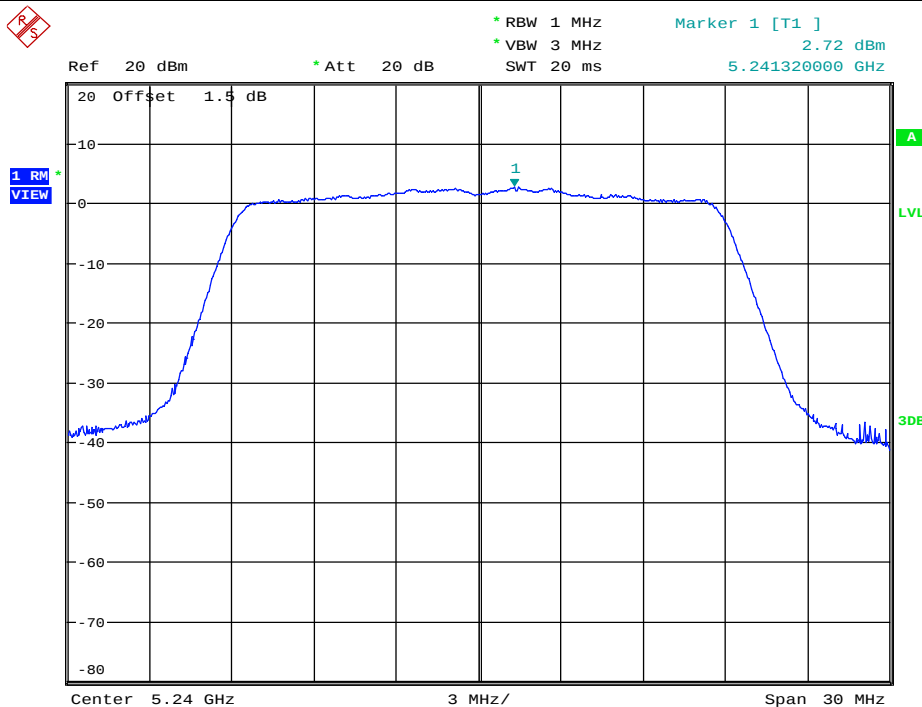
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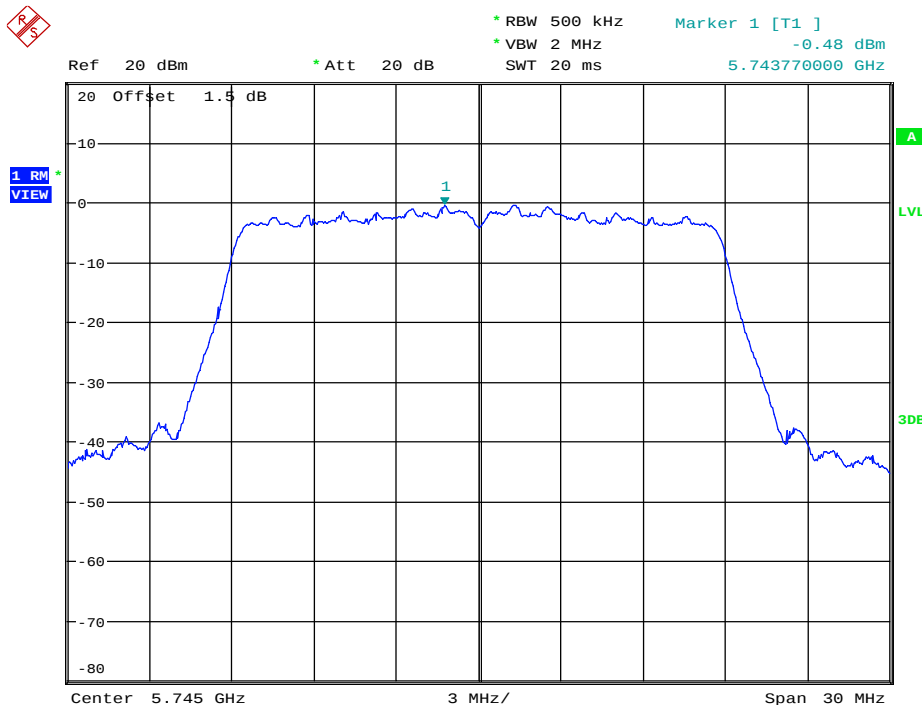
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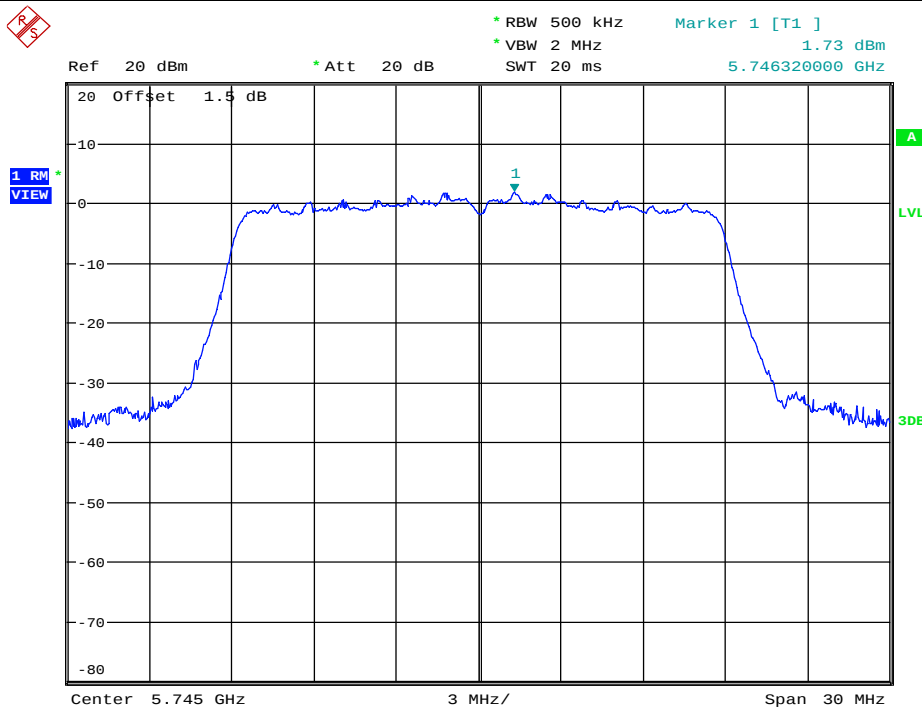
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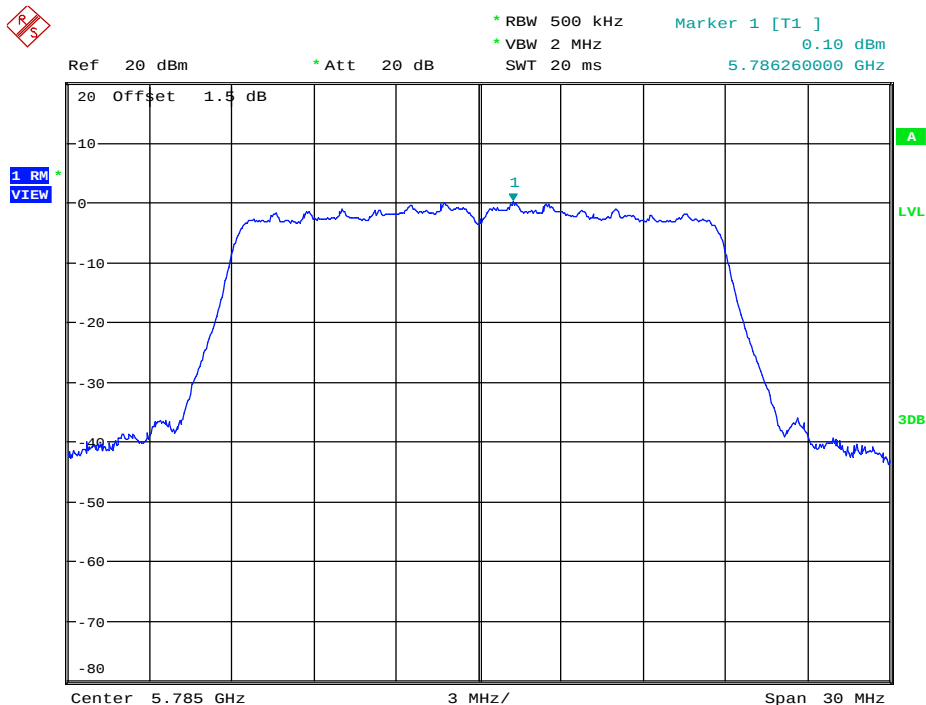
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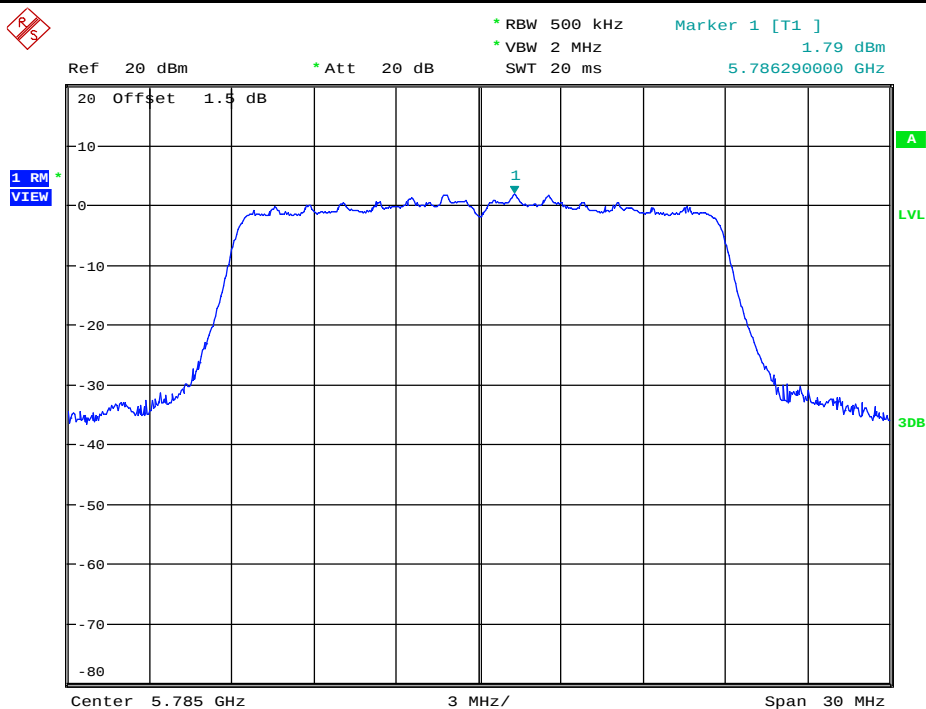
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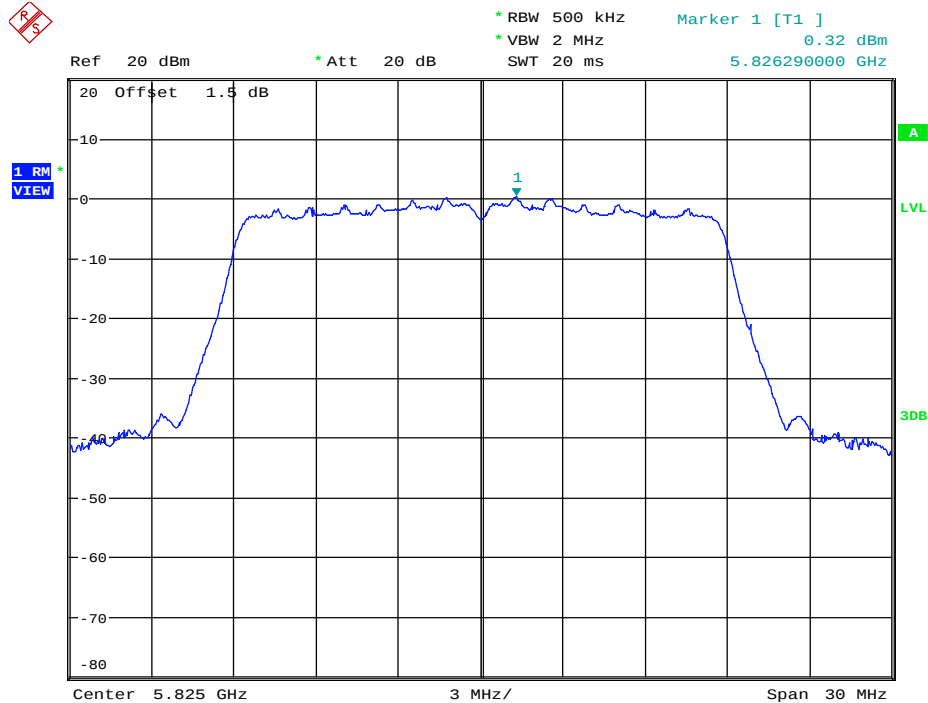
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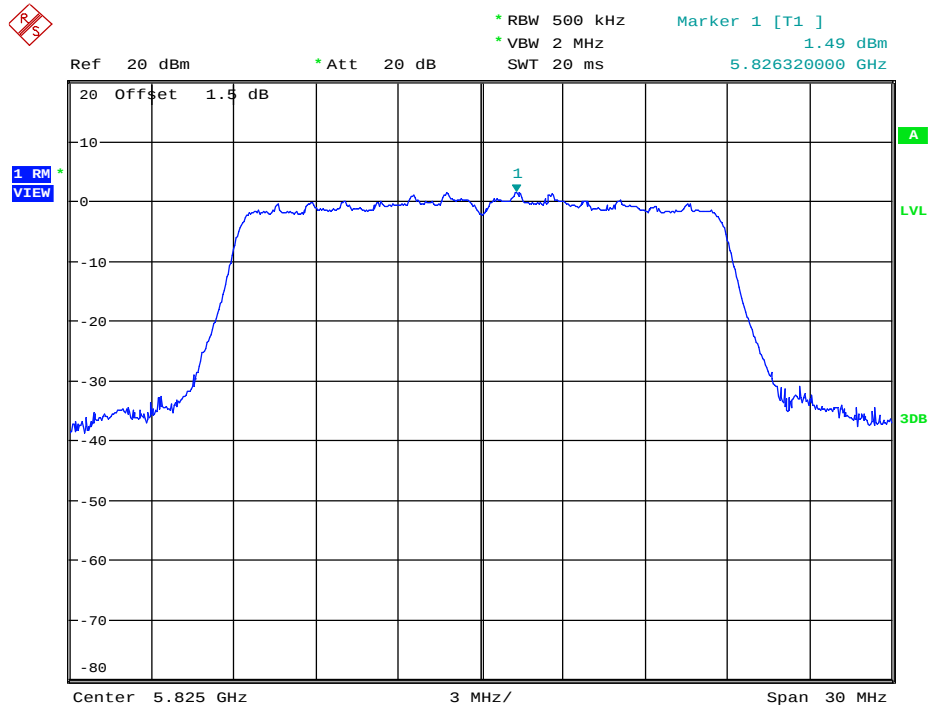
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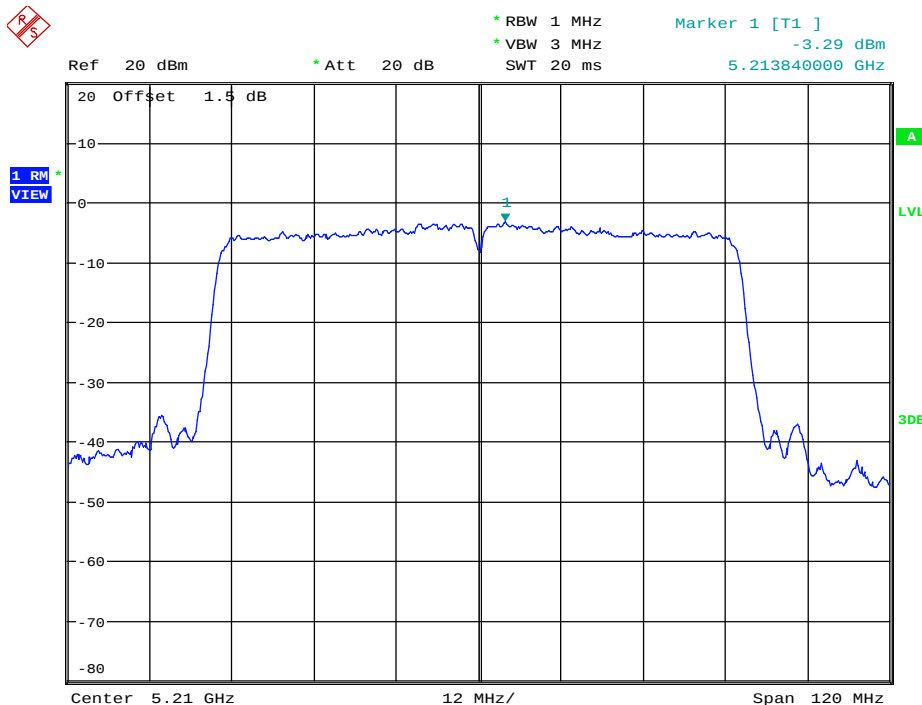
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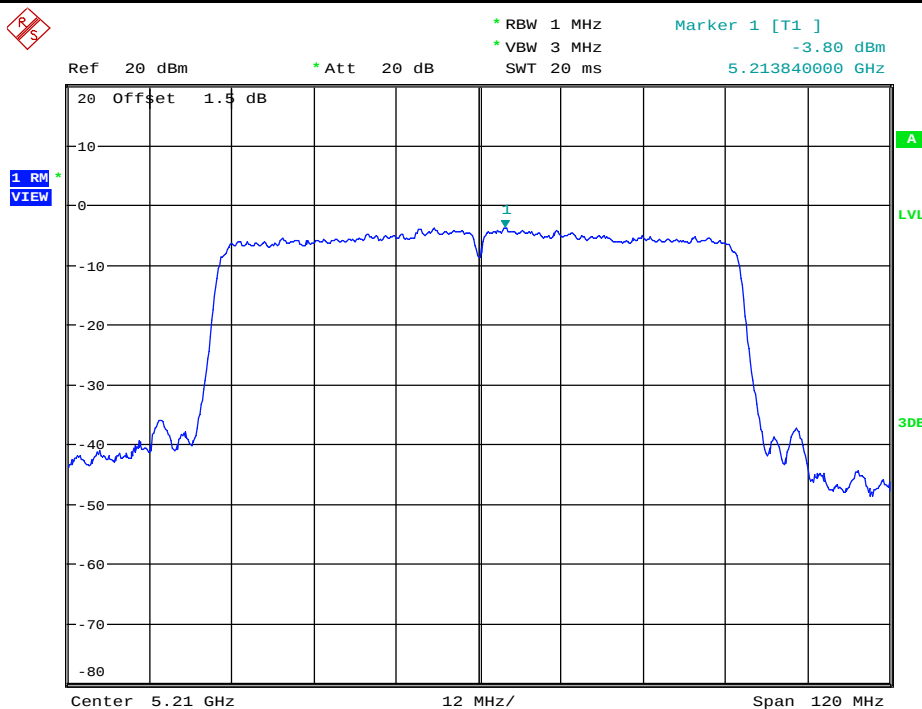
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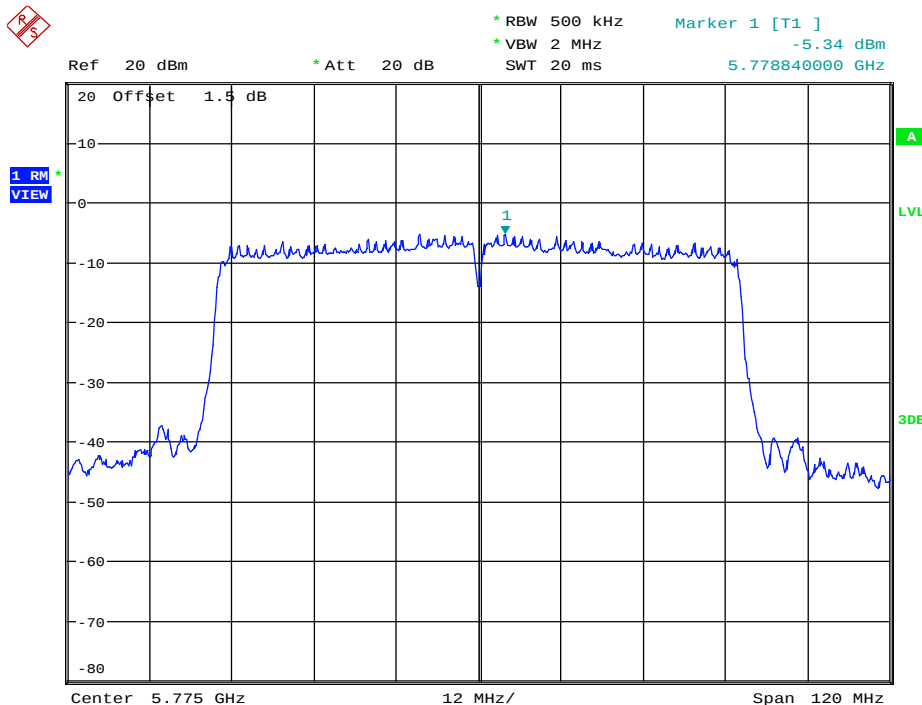
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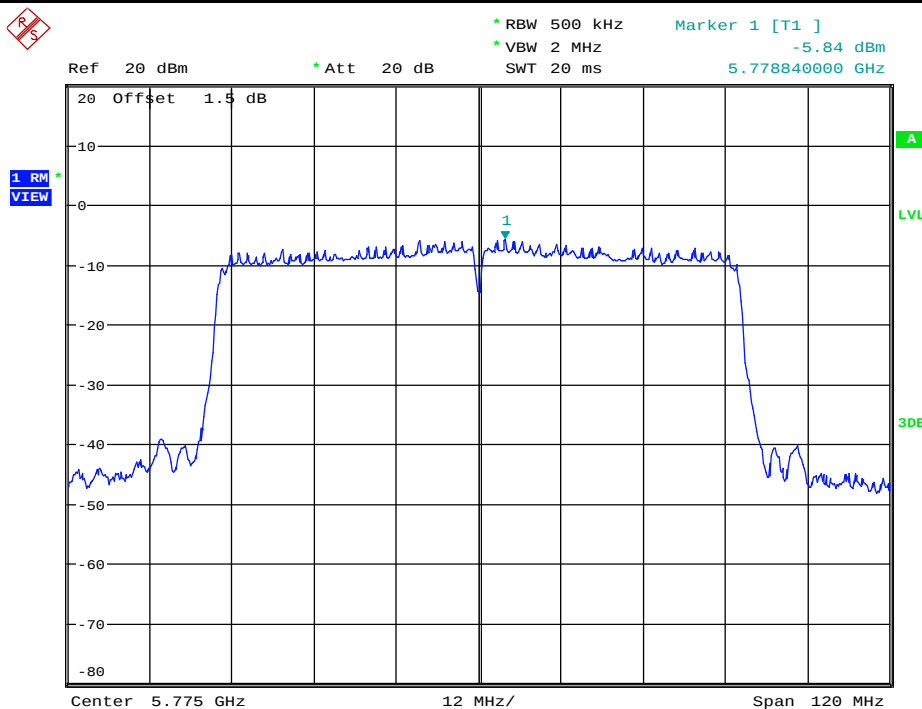
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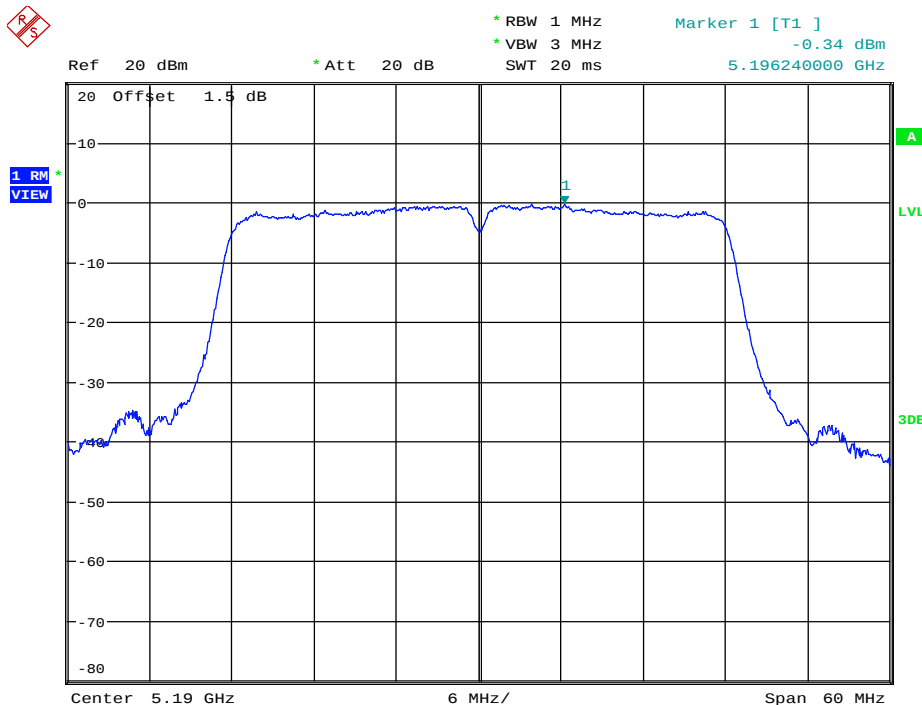
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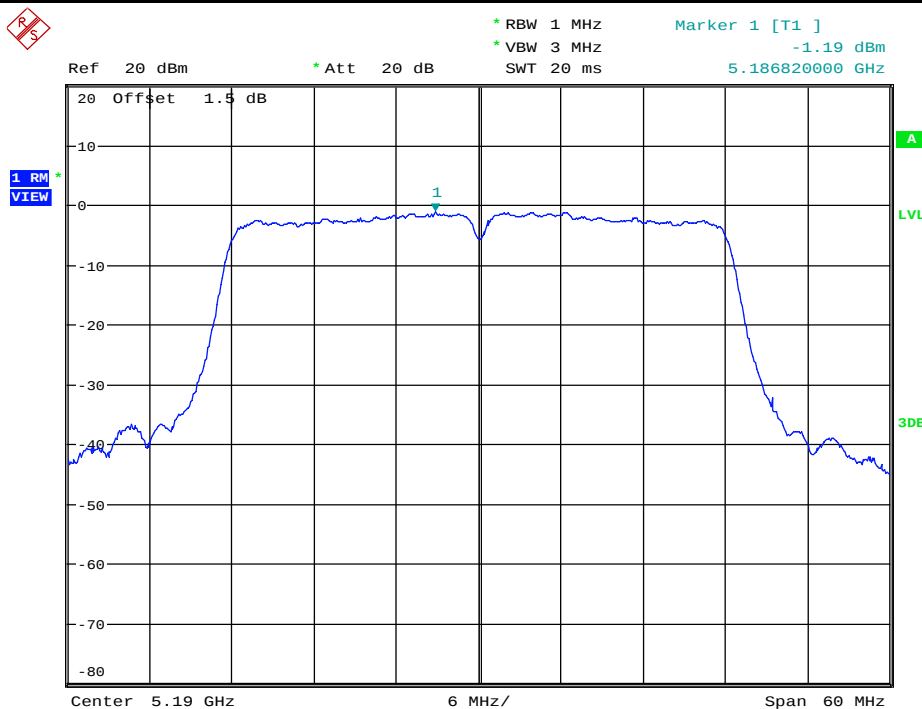
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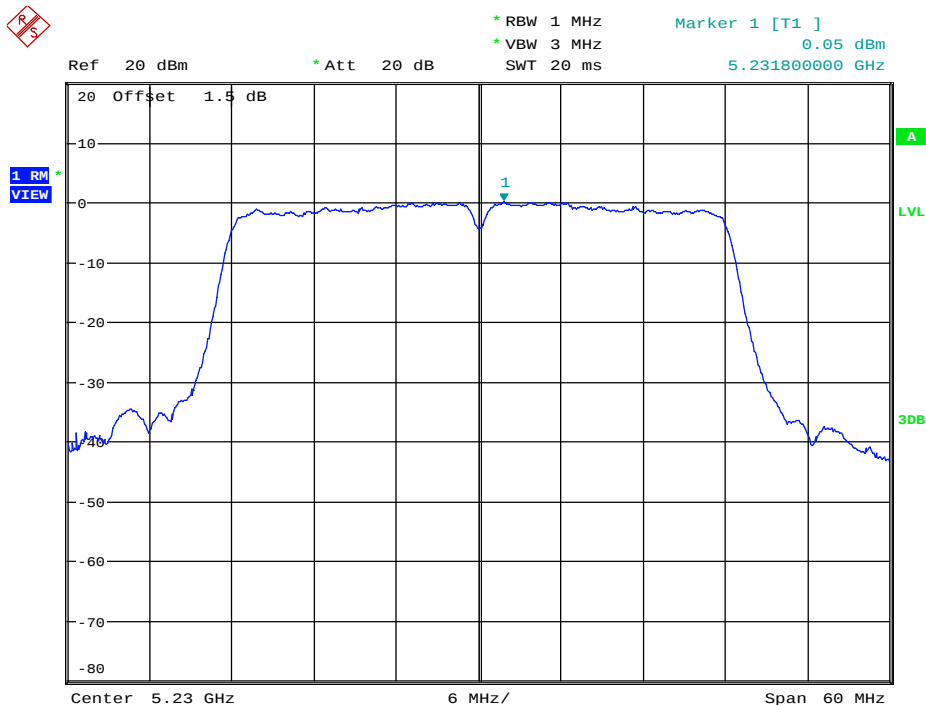
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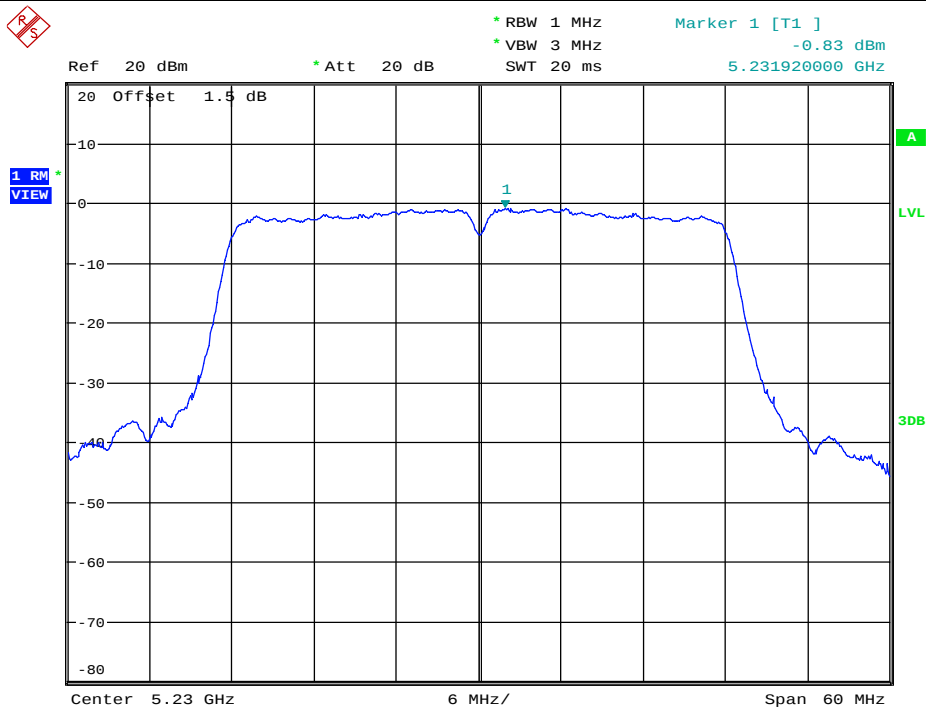
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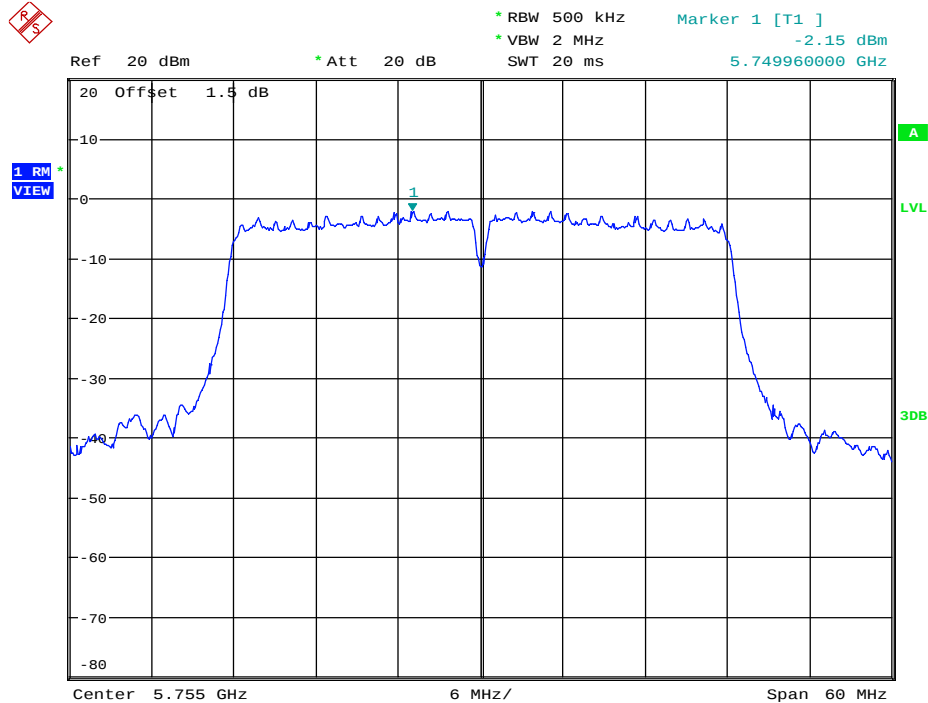
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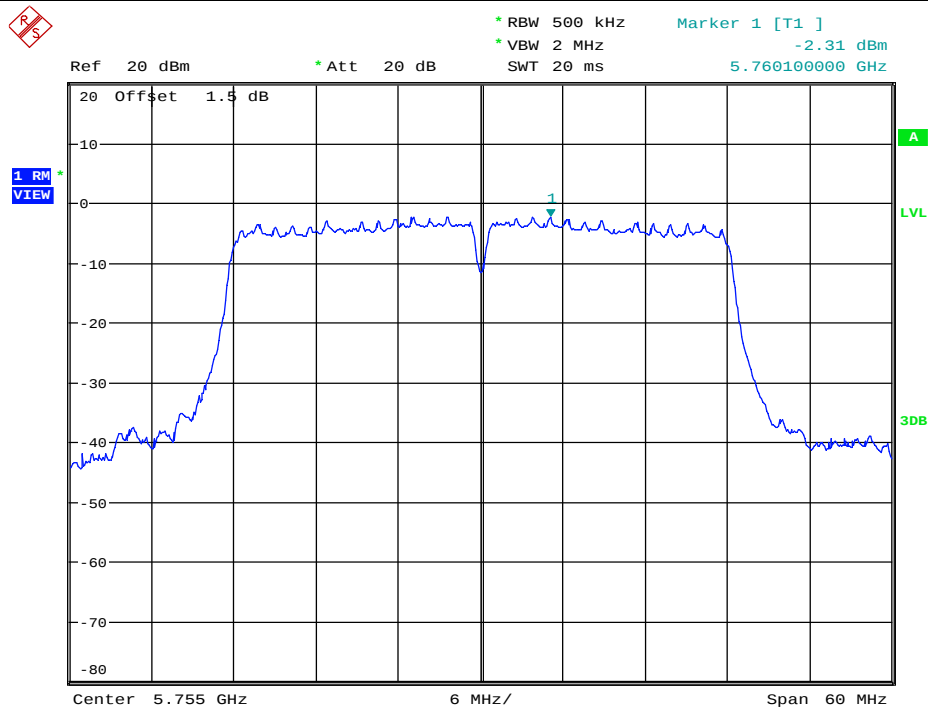
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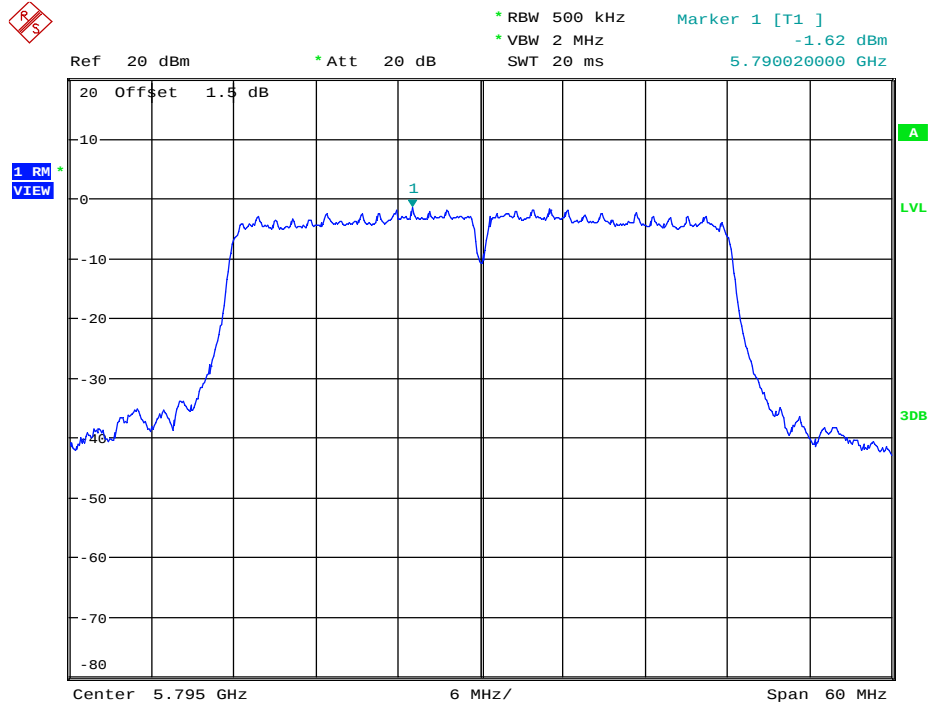
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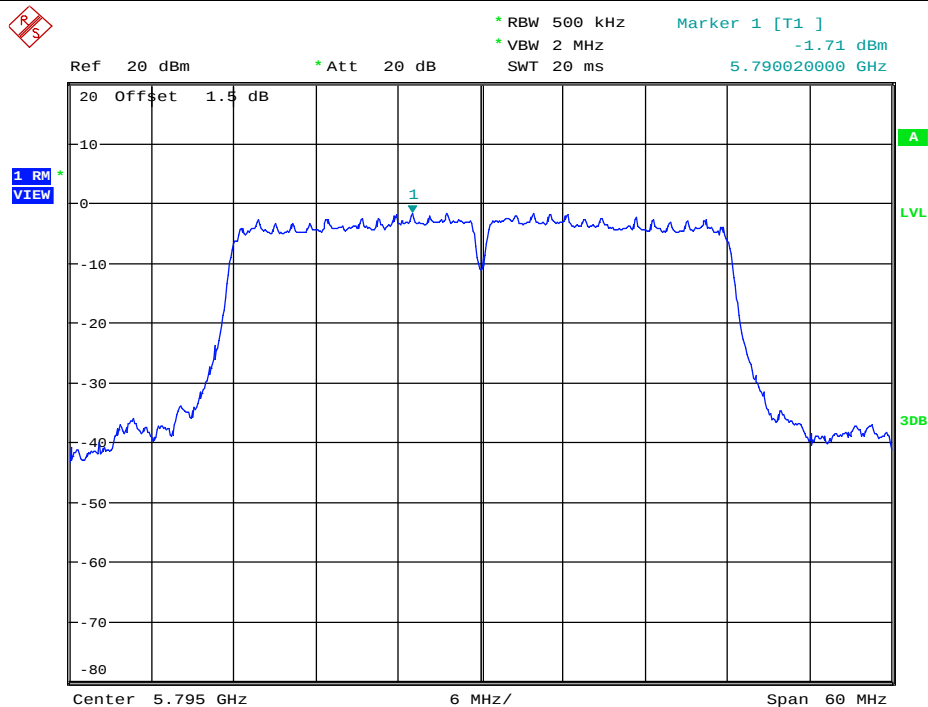
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Maximum Power Spectral Density_TNVN_11AC40_5795_Ant5



Maximum Power Spectral Density_TNVN_11AC40_5795_Ant6



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Shenzhen Branch, Testing Center, CCC Laboratory.

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5.uty Cycle (x)

Test Mode	Test Channel	Ant	Duty Cycle[%]	10log(1/x) Factor[dB]
11A	5180	Ant5	94.43	0.25
11A	5180	Ant6	95.68	0.19
11A	5220	Ant5	89.16	0.5
11A	5220	Ant6	90.54	0.43
11A	5240	Ant5	90.85	0.42
11A	5240	Ant6	93.81	0.28
11A	5745	Ant5	94.43	0.25
11A	5745	Ant6	90.85	0.42
11A	5785	Ant5	90.85	0.42
11A	5785	Ant6	91.43	0.39
11A	5825	Ant5	92.31	0.35
11A	5825	Ant6	88.89	0.51
11N20	5180	Ant5	88.24	0.54
11N20	5180	Ant6	91.84	0.37
11N20	5220	Ant5	94.06	0.27
11N20	5220	Ant6	88.49	0.53
11N20	5240	Ant5	93.1	0.31
11N20	5240	Ant6	94.06	0.27
11N20	5745	Ant5	88.52	0.53
11N20	5745	Ant6	92.12	0.36
11N20	5785	Ant5	90.3	0.44
11N20	5785	Ant6	94.06	0.27
11N20	5825	Ant5	89.97	0.46
11N20	5825	Ant6	90.27	0.44
11N40	5190	Ant5	86.67	0.62
11N40	5190	Ant6	87.35	0.59
11N40	5230	Ant5	91.7	0.38
11N40	5230	Ant6	87.7	0.57
11N40	5755	Ant5	85	0.71



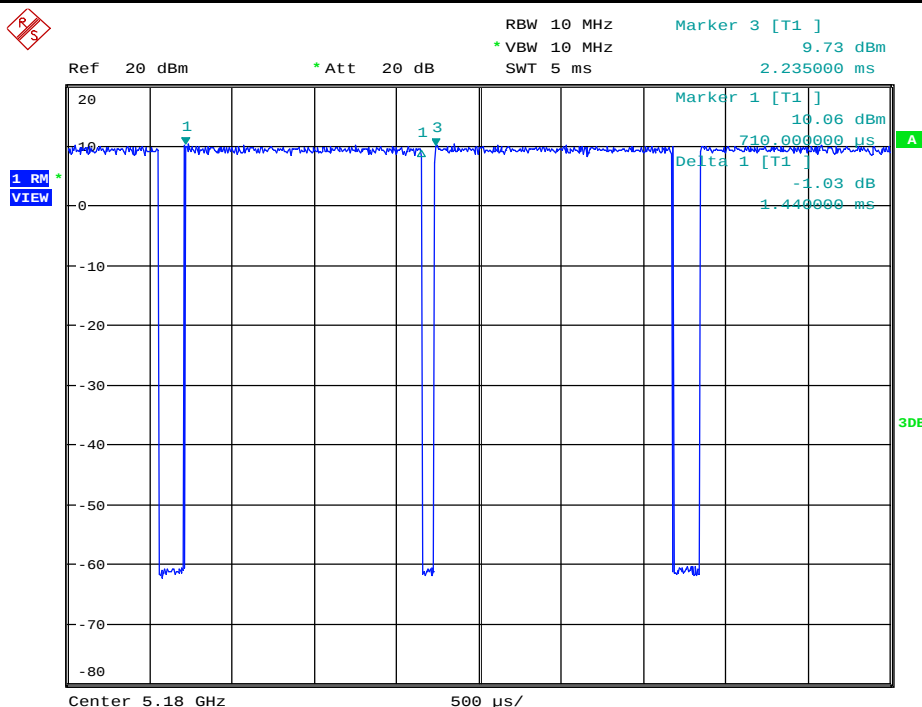
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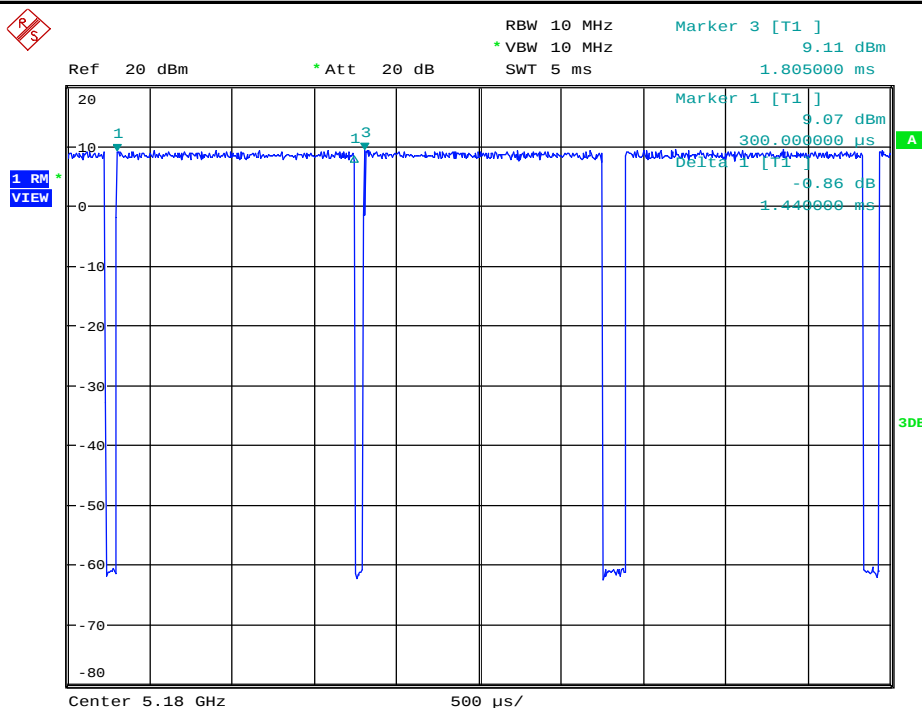
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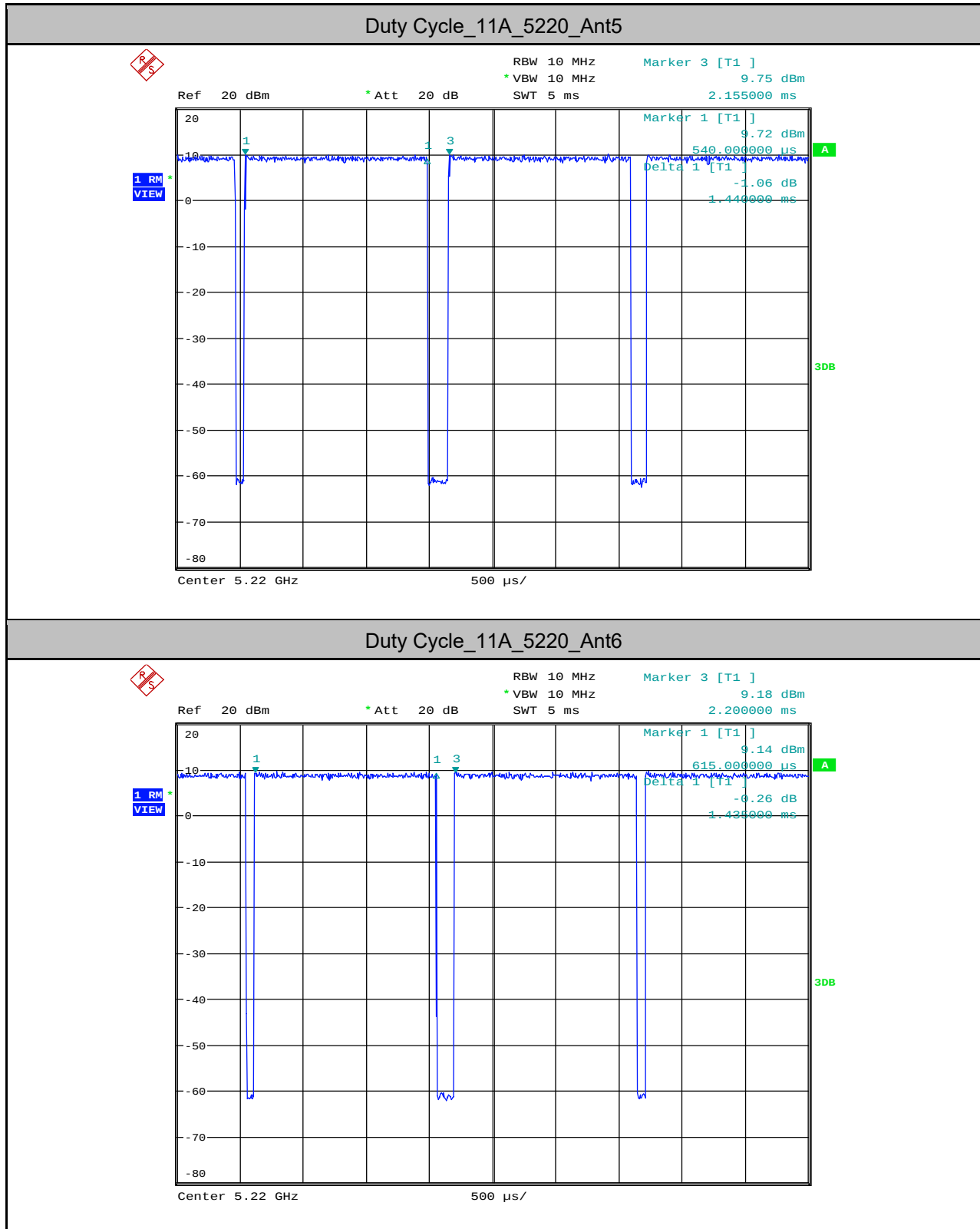
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11N40	5795	Ant5	92.86	0.32
11N40	5795	Ant6	87.01	0.6
11AC20	5180	Ant5	90.67	0.43
11AC20	5180	Ant6	94.12	0.26
11AC20	5220	Ant5	91.28	0.4
11AC20	5220	Ant6	94.77	0.23
11AC20	5240	Ant5	89.18	0.5
11AC20	5240	Ant6	87.99	0.56
11AC20	5745	Ant5	90.37	0.44
11AC20	5745	Ant6	88.03	0.55
11AC20	5785	Ant5	89.77	0.47
11AC20	5785	Ant6	88.6	0.53
11AC20	5825	Ant5	91.86	0.37
11AC20	5825	Ant6	92.81	0.32
11AC80	5210	Ant5	84.69	0.72
11AC80	5210	Ant6	74.77	1.26
11AC80	5775	Ant5	65.35	1.85
11AC80	5775	Ant6	74.77	1.26
11AC40	5190	Ant5	80	0.97
11AC40	5190	Ant6	78.05	1.08
11AC40	5230	Ant5	78.72	1.04
11AC40	5230	Ant6	82.35	0.84
11AC40	5755	Ant5	83.9	0.76
11AC40	5755	Ant6	84.21	0.75
11AC40	5795	Ant5	90.65	0.43
11AC40	5795	Ant6	90.65	0.43

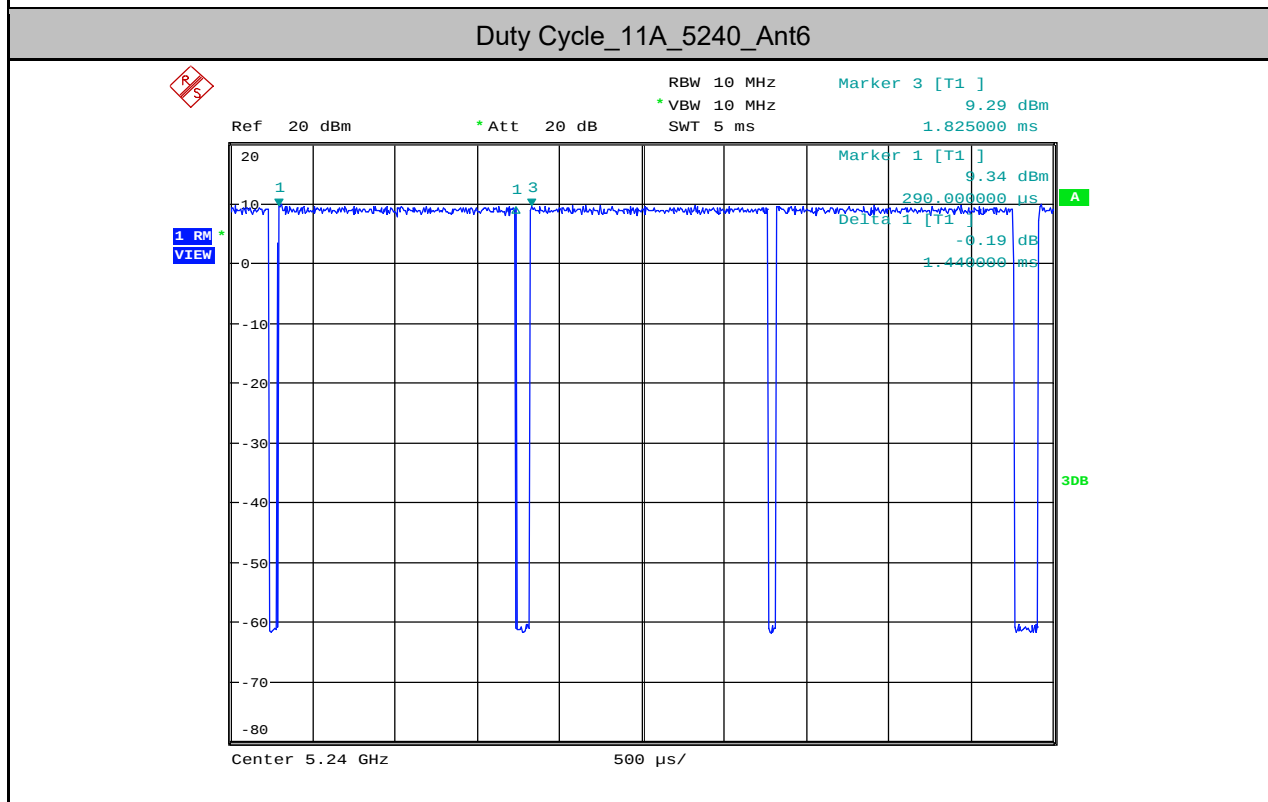
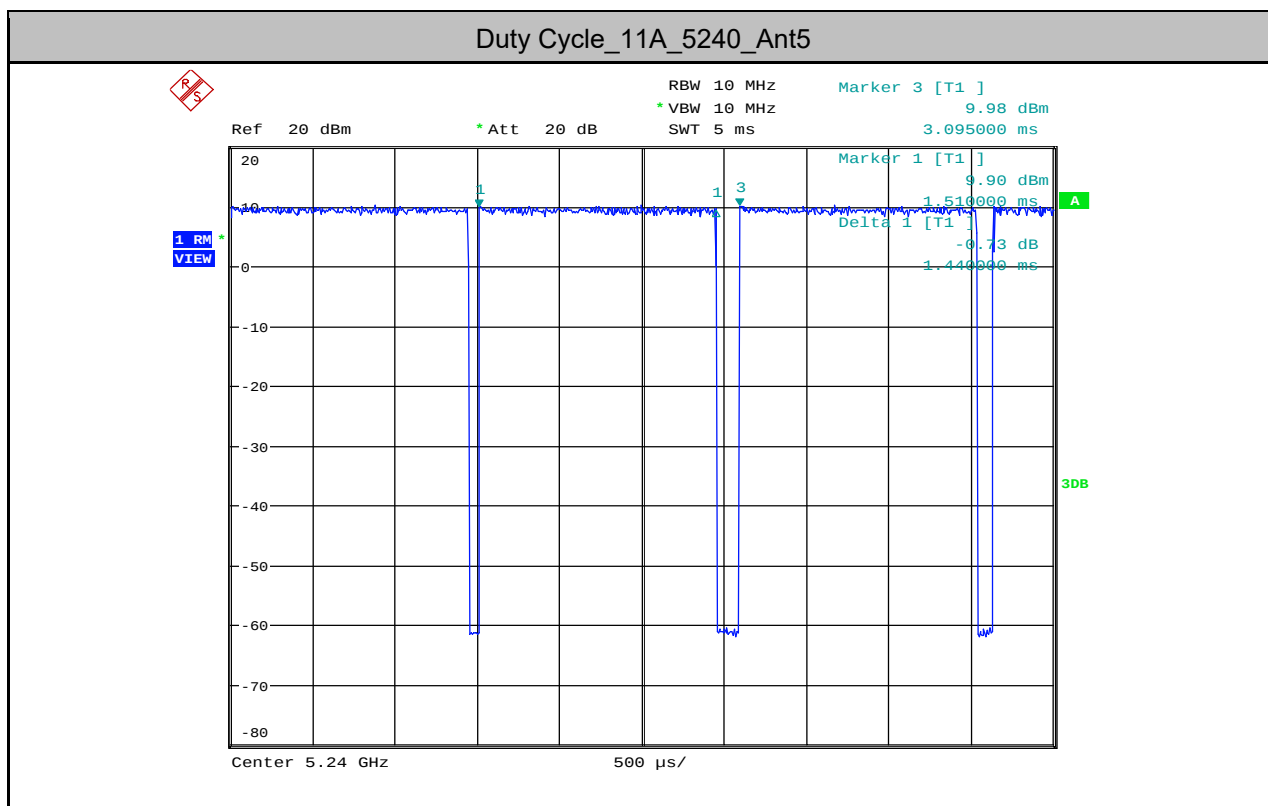
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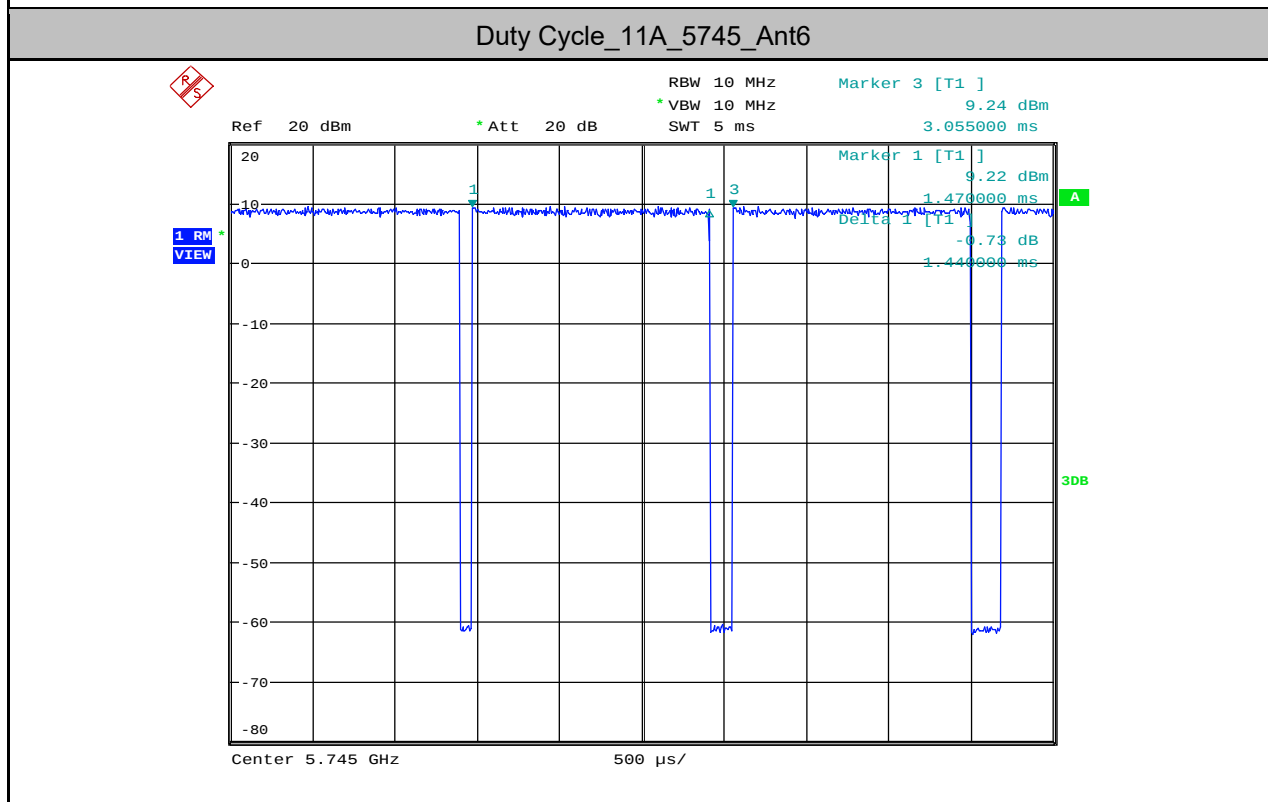
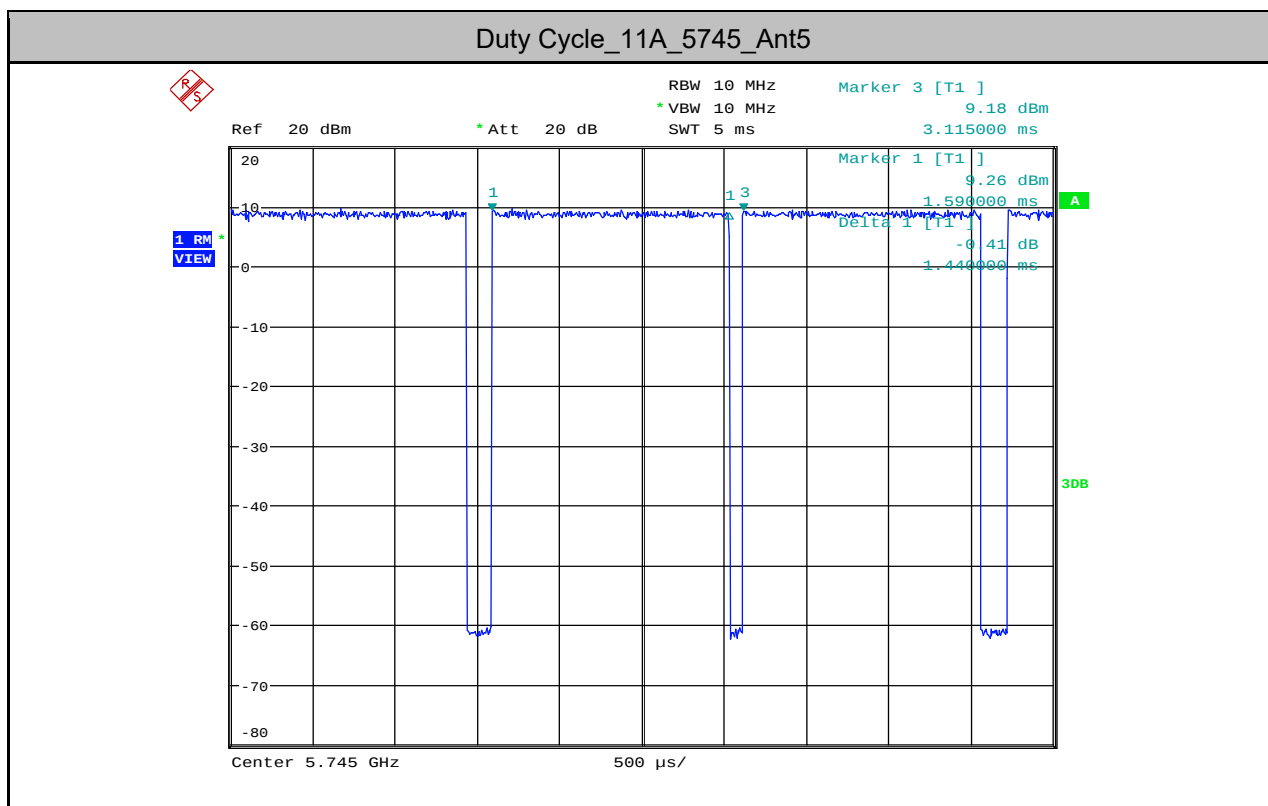


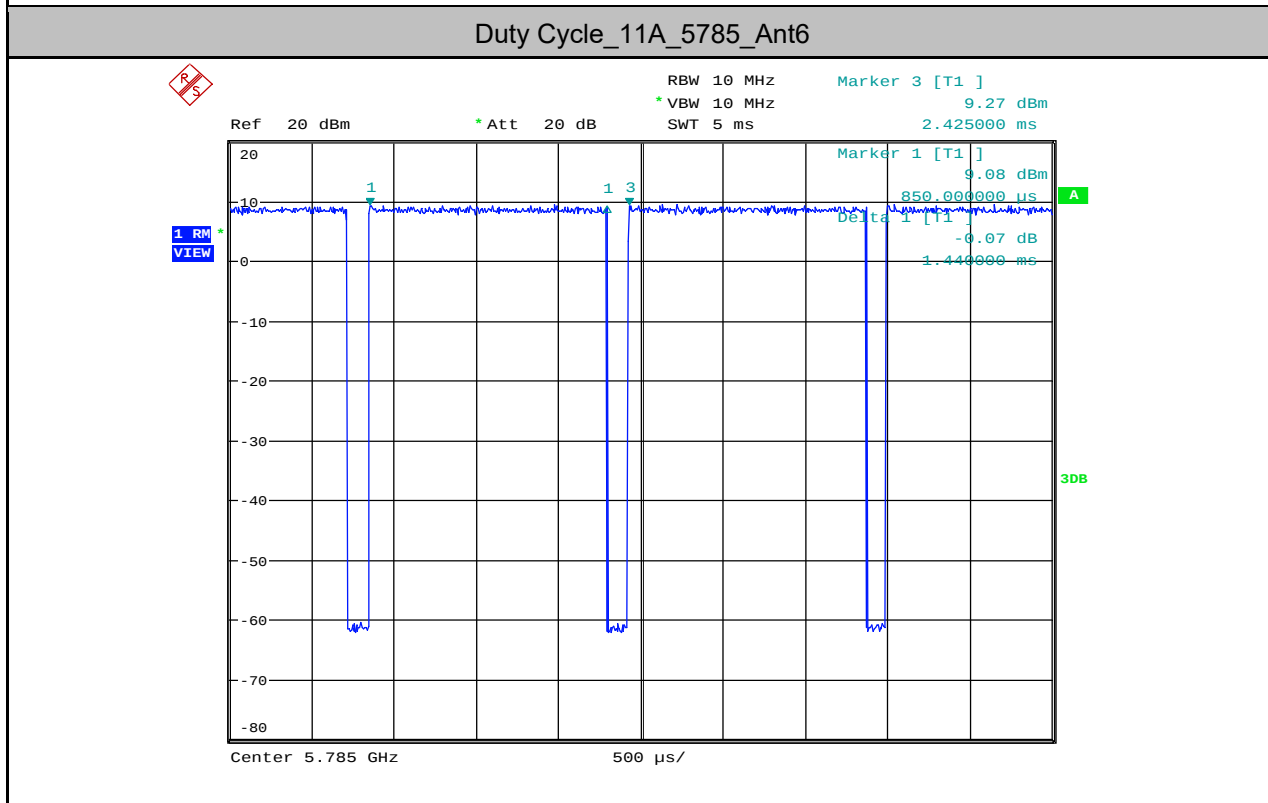
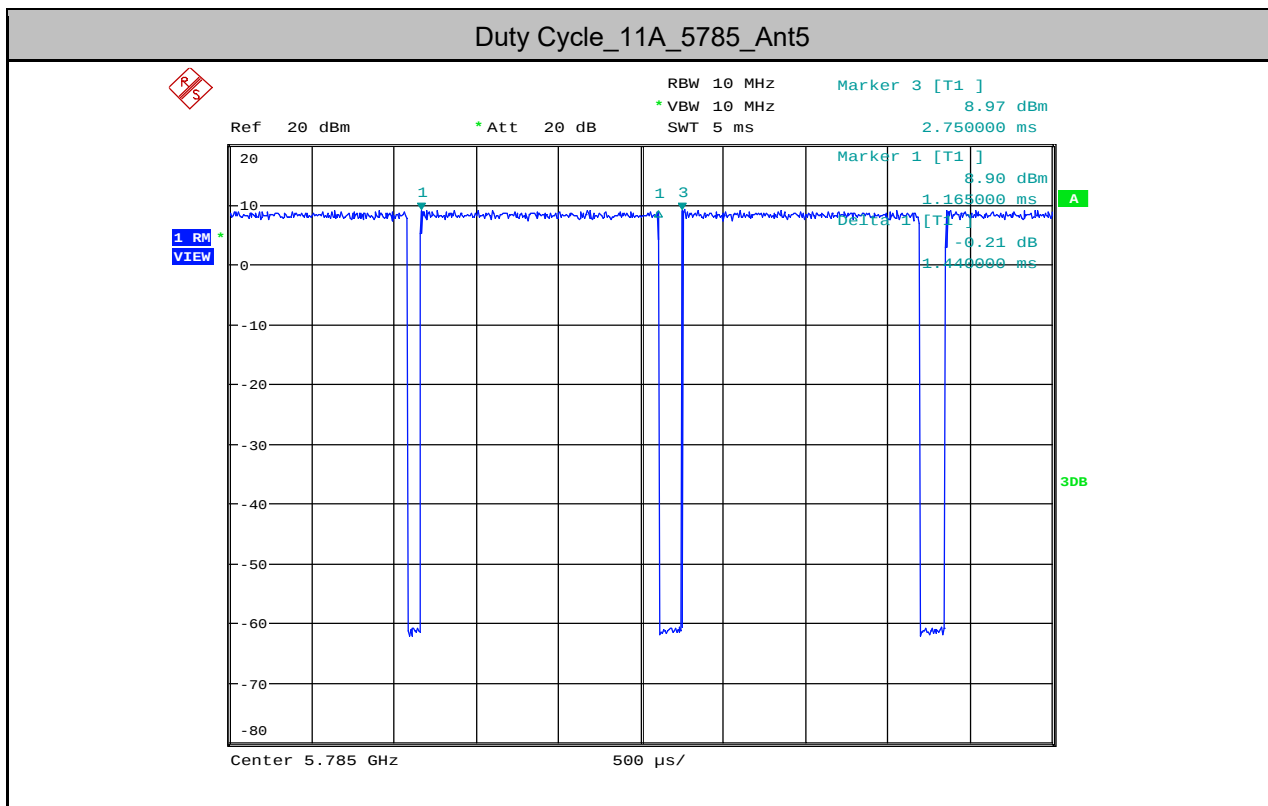
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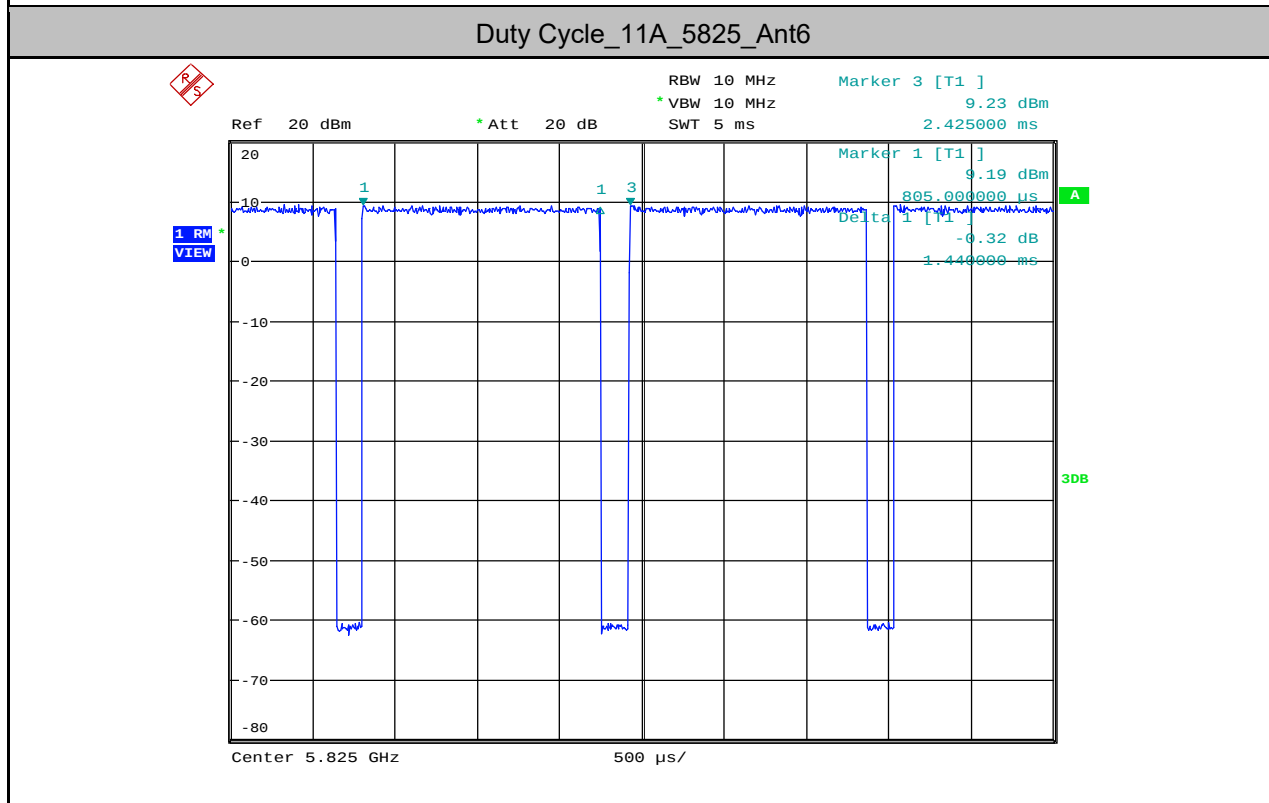
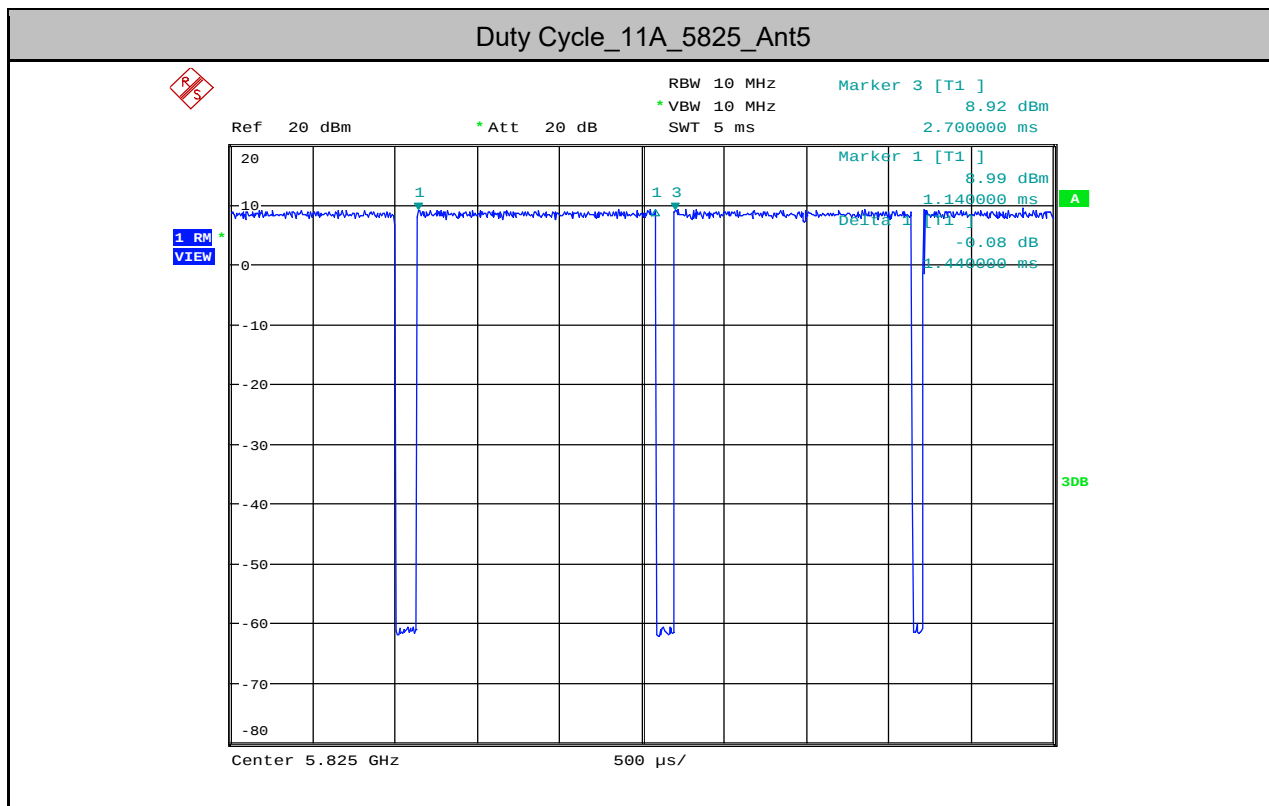




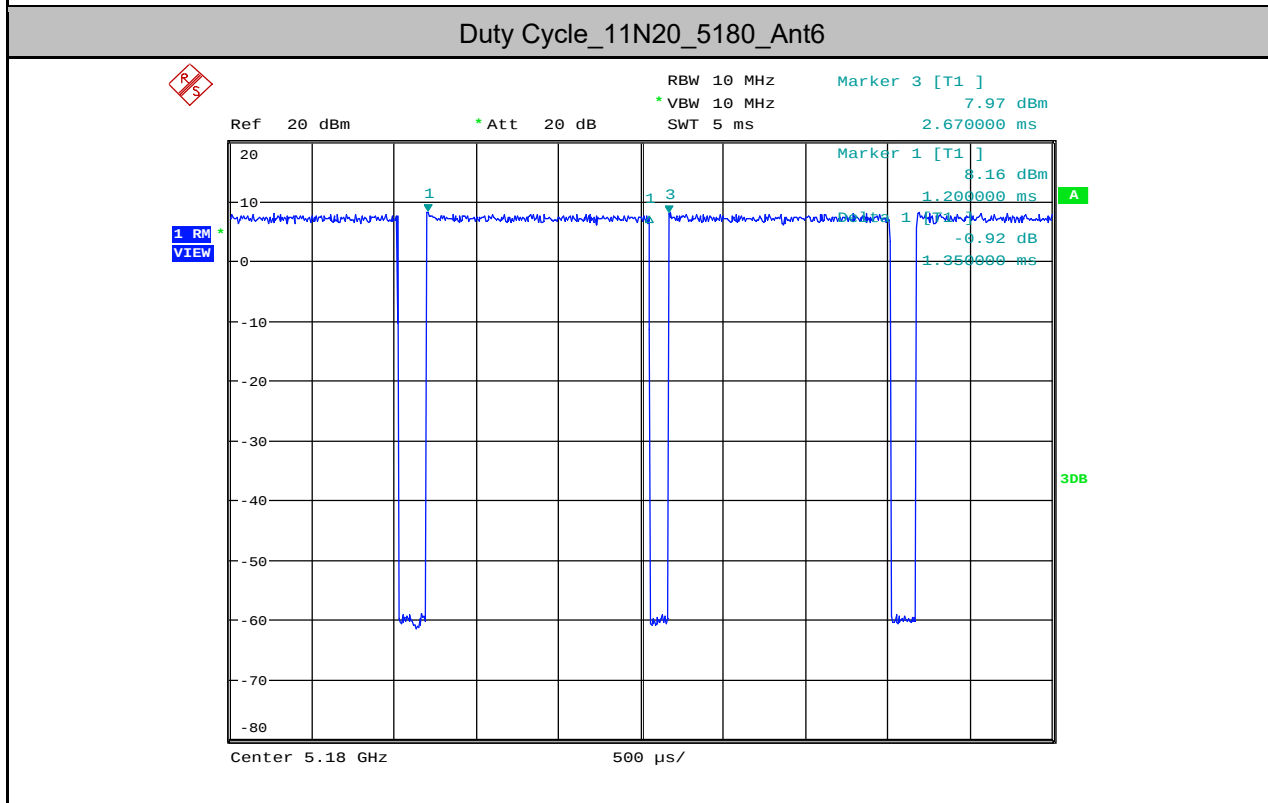
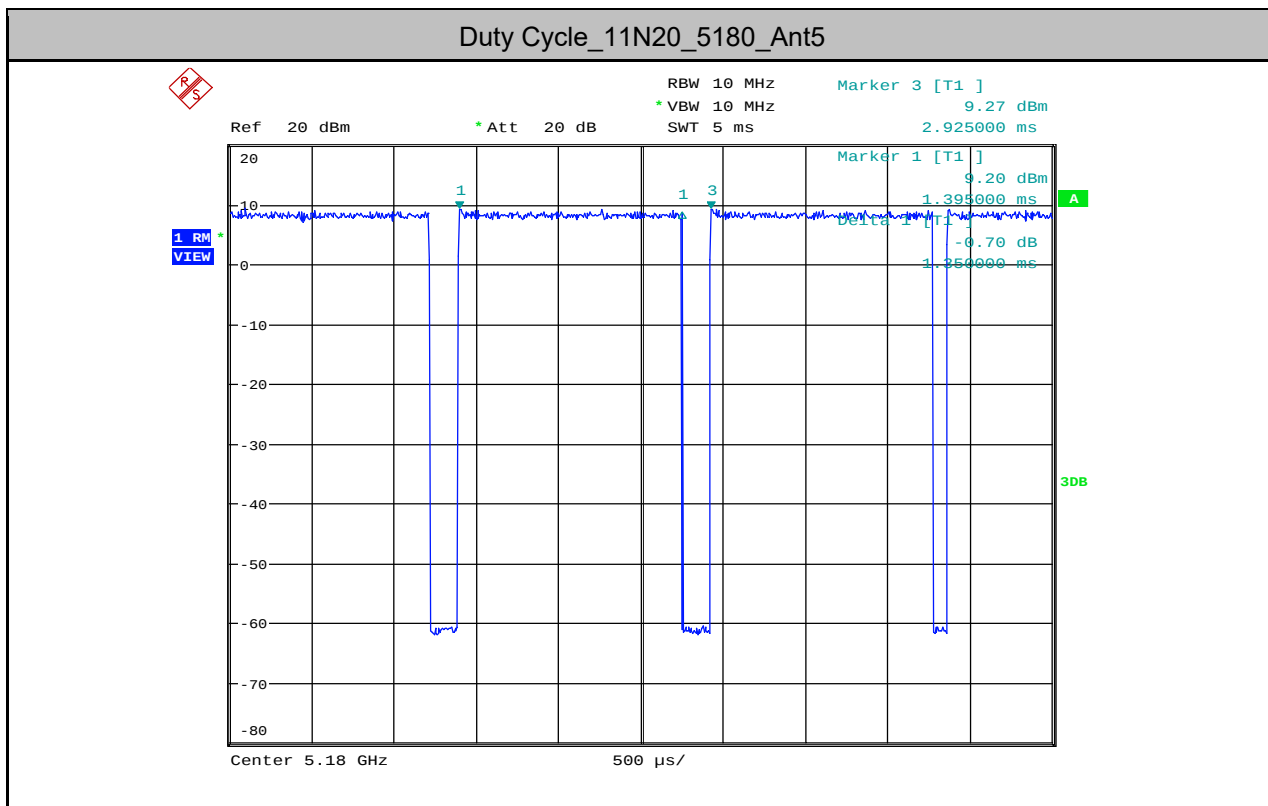


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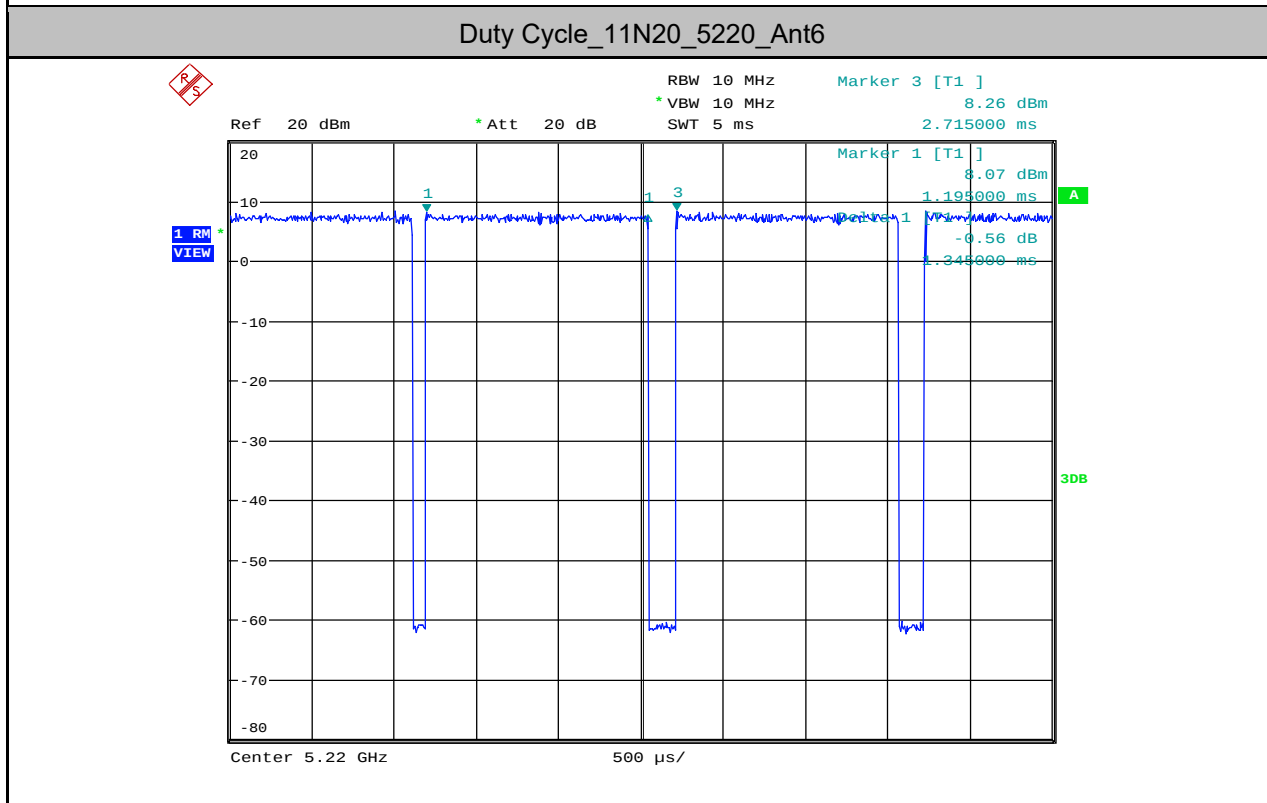
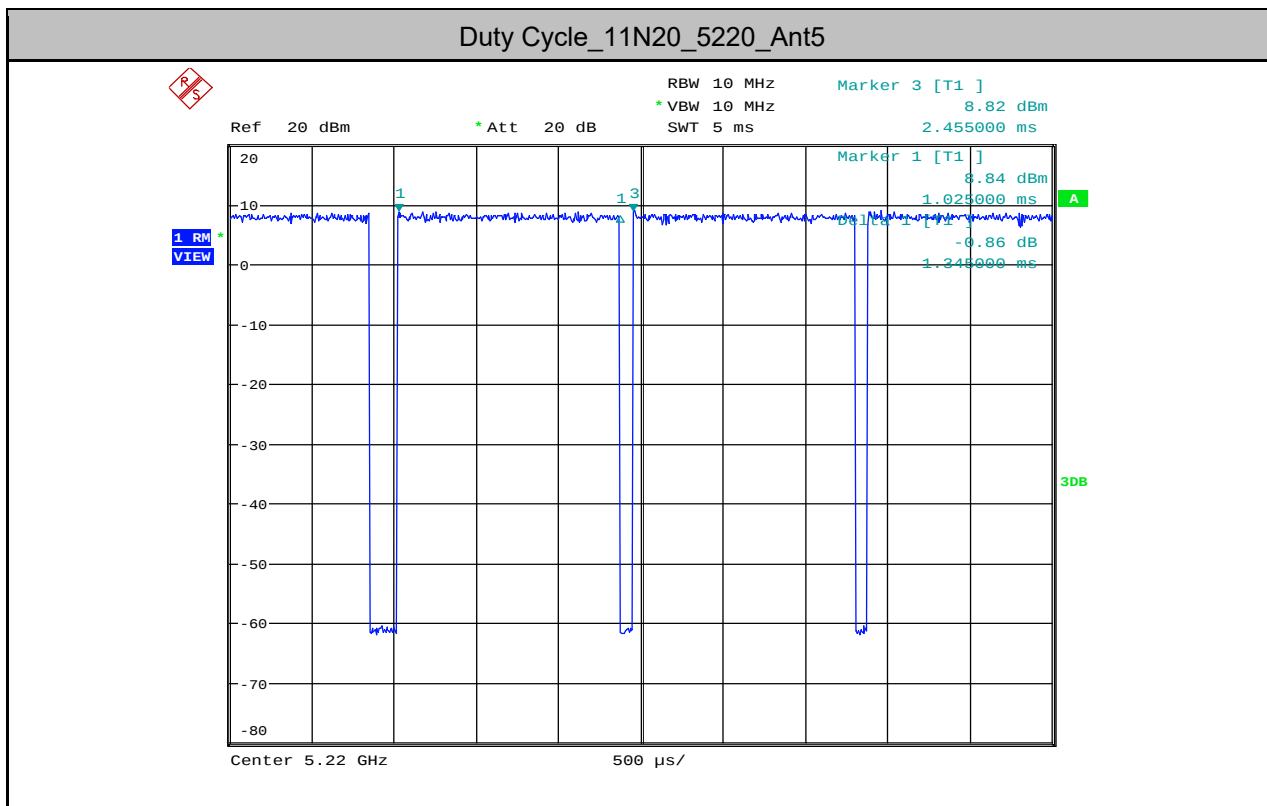


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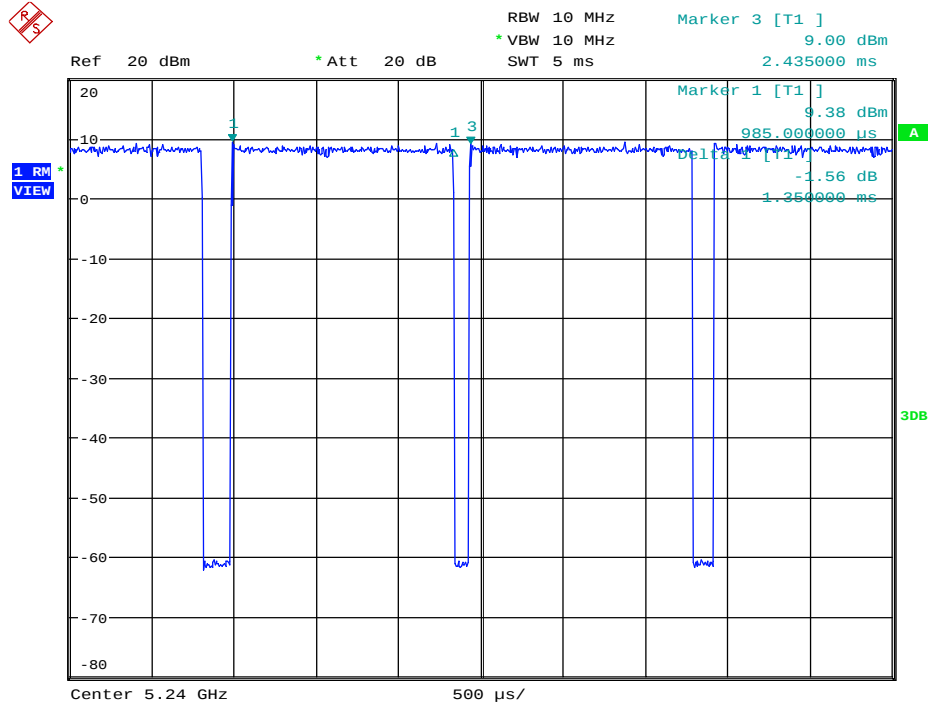
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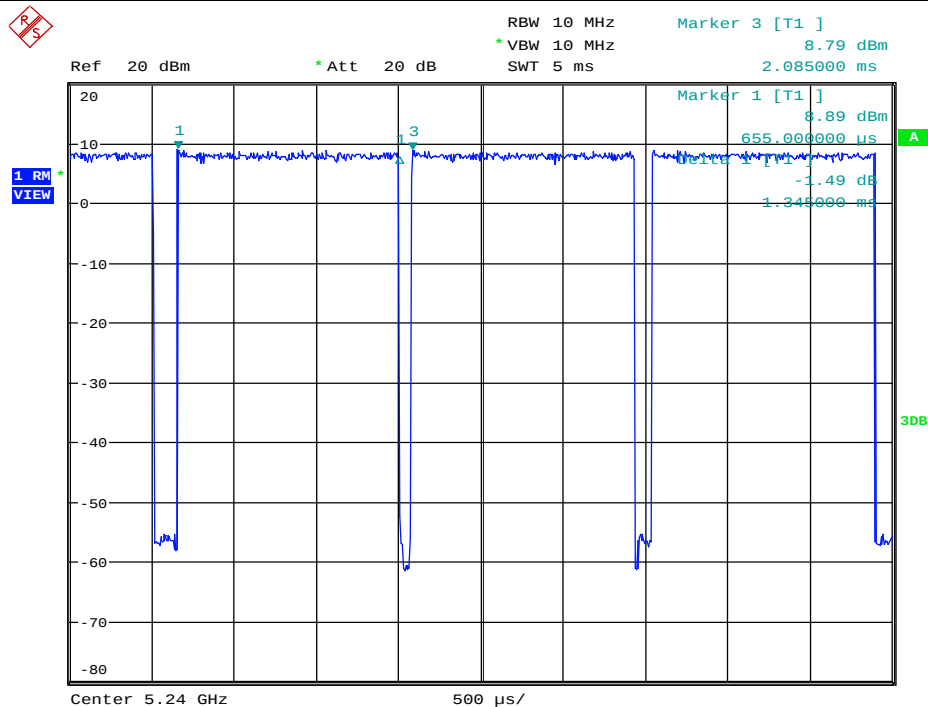
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Duty Cycle_11N20_5240_Ant5

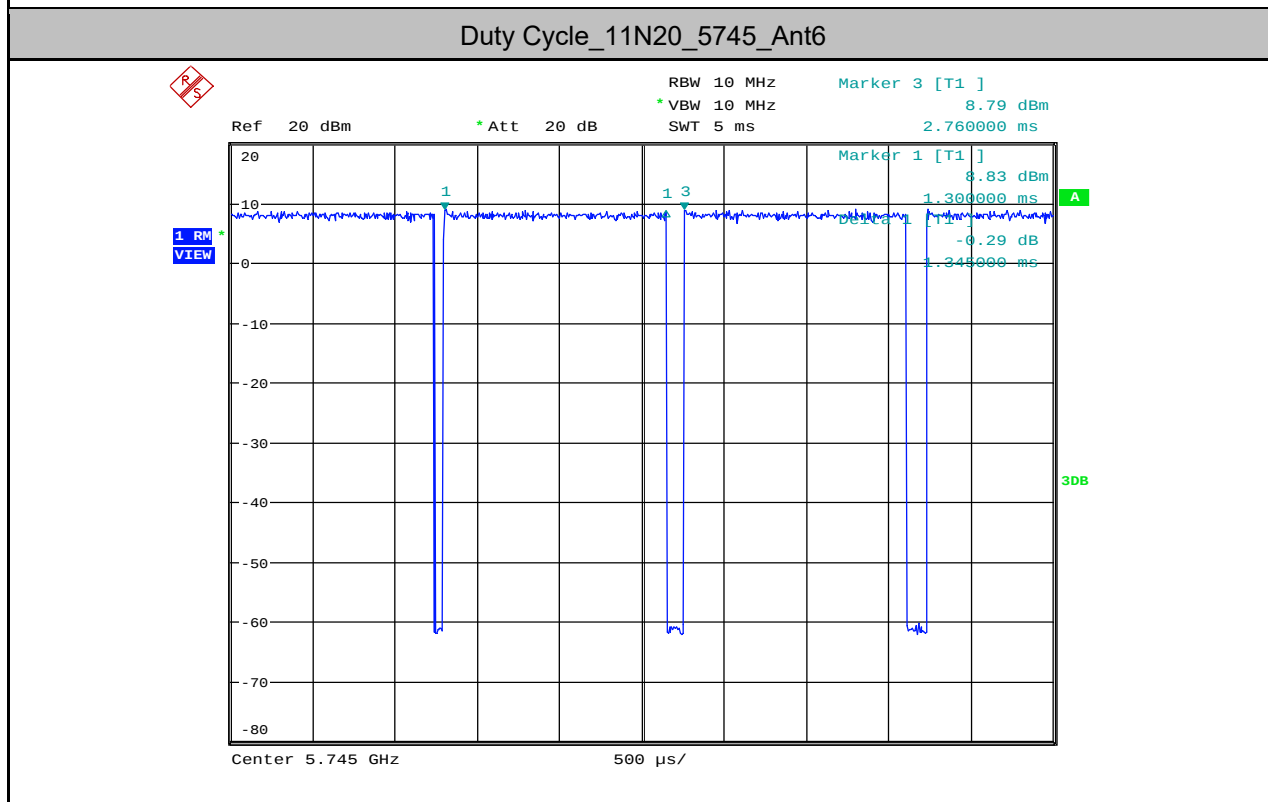
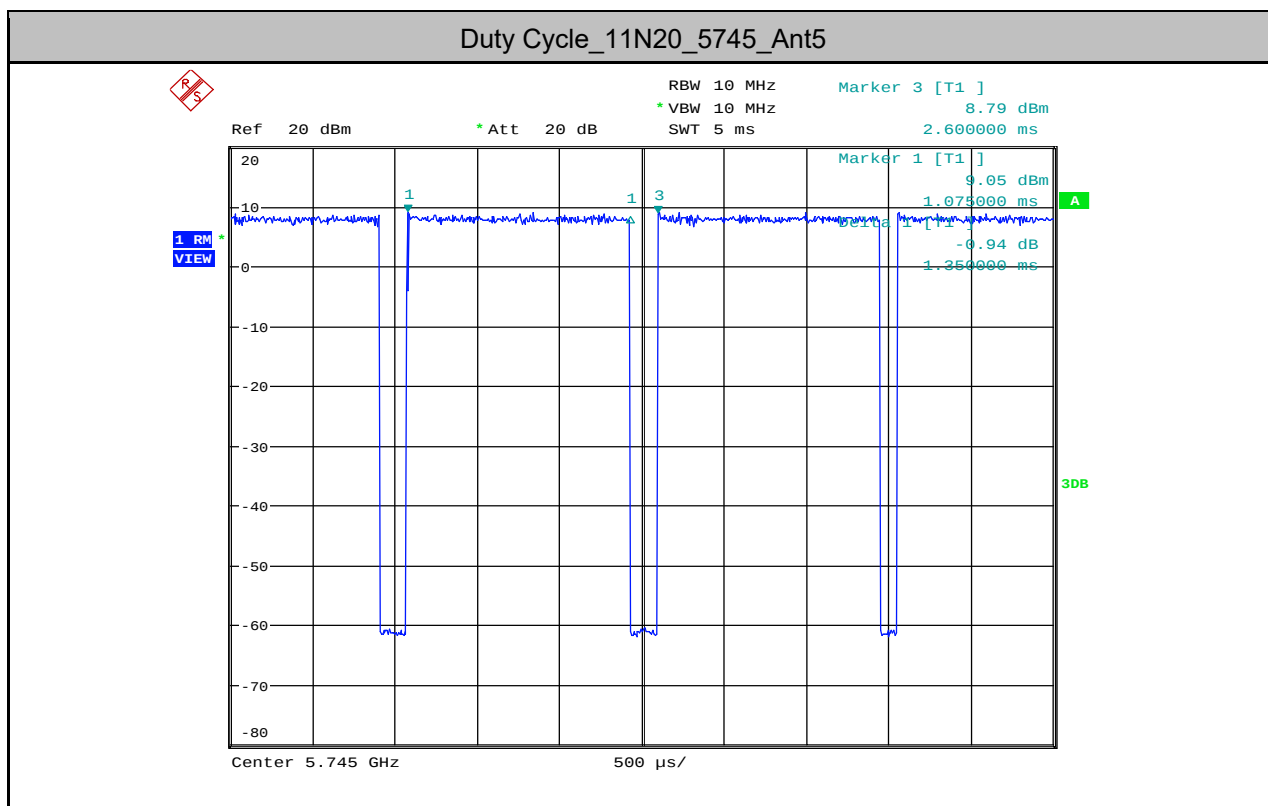


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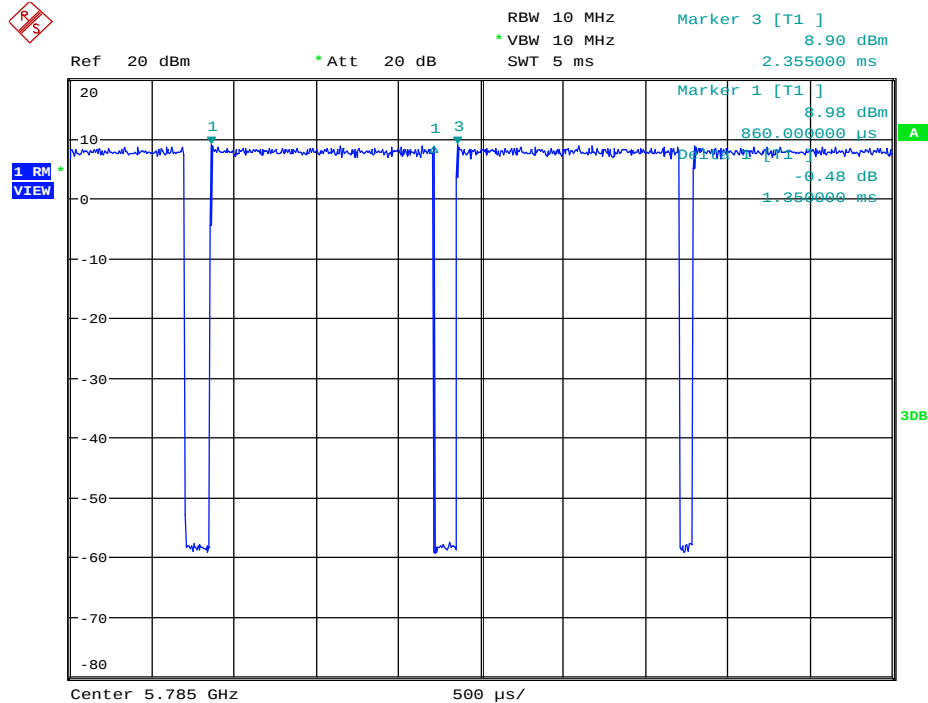


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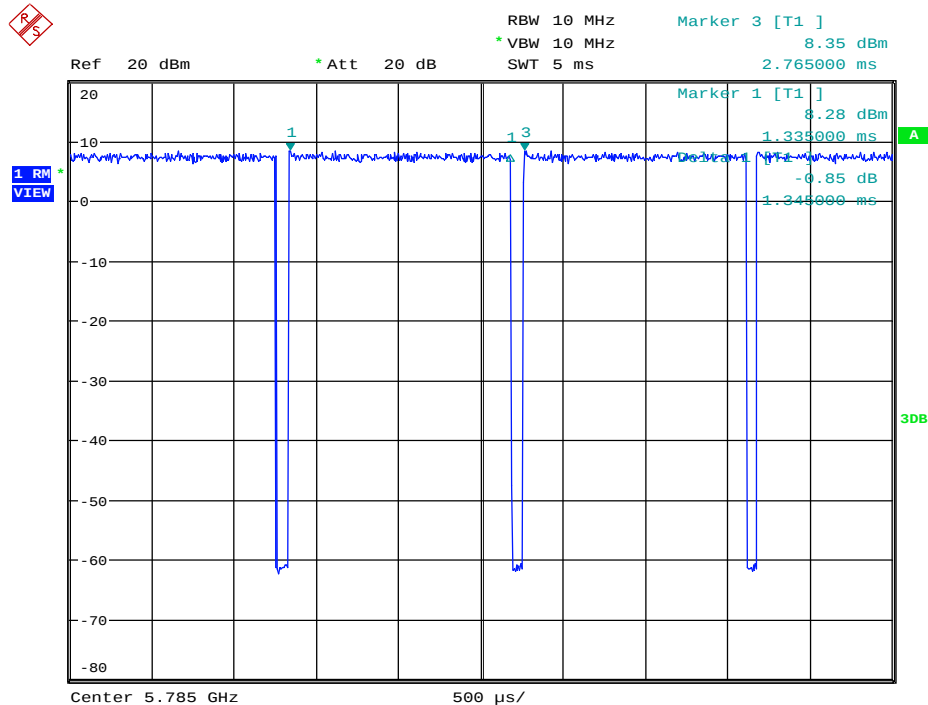
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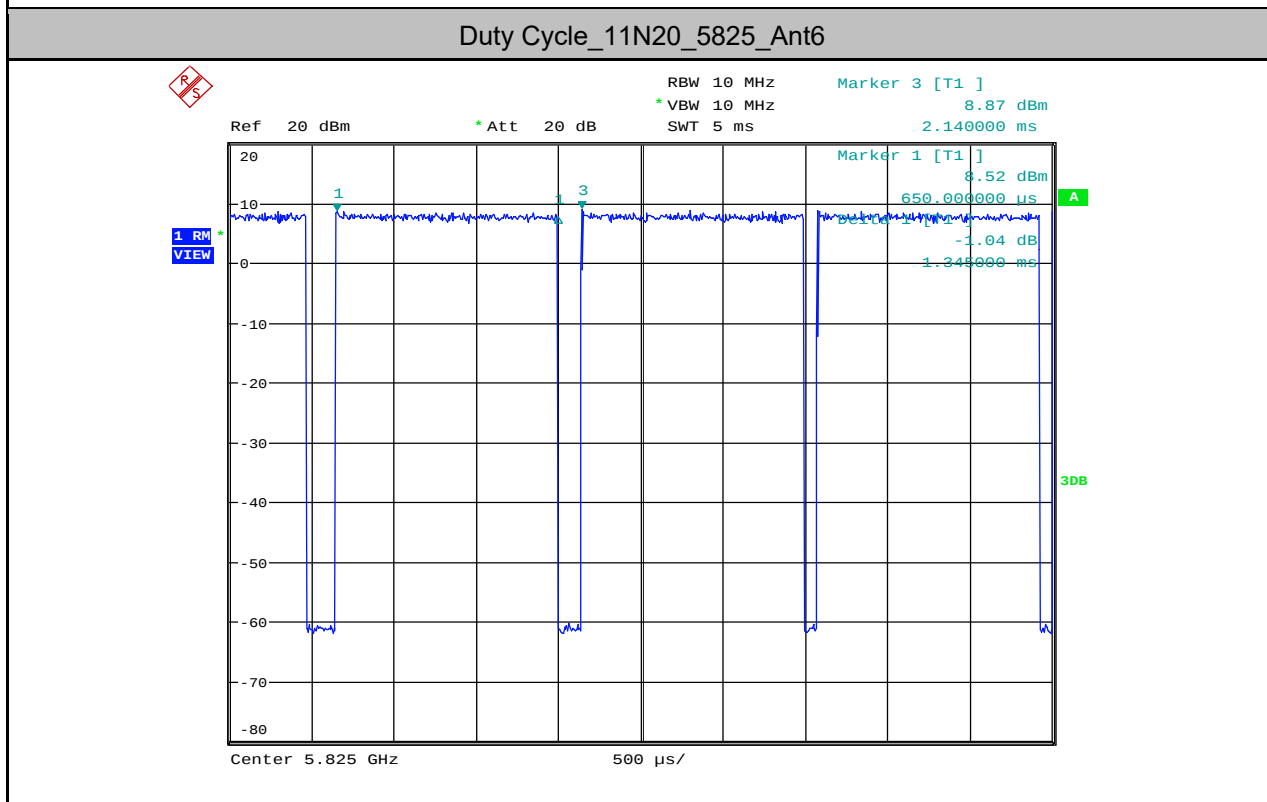
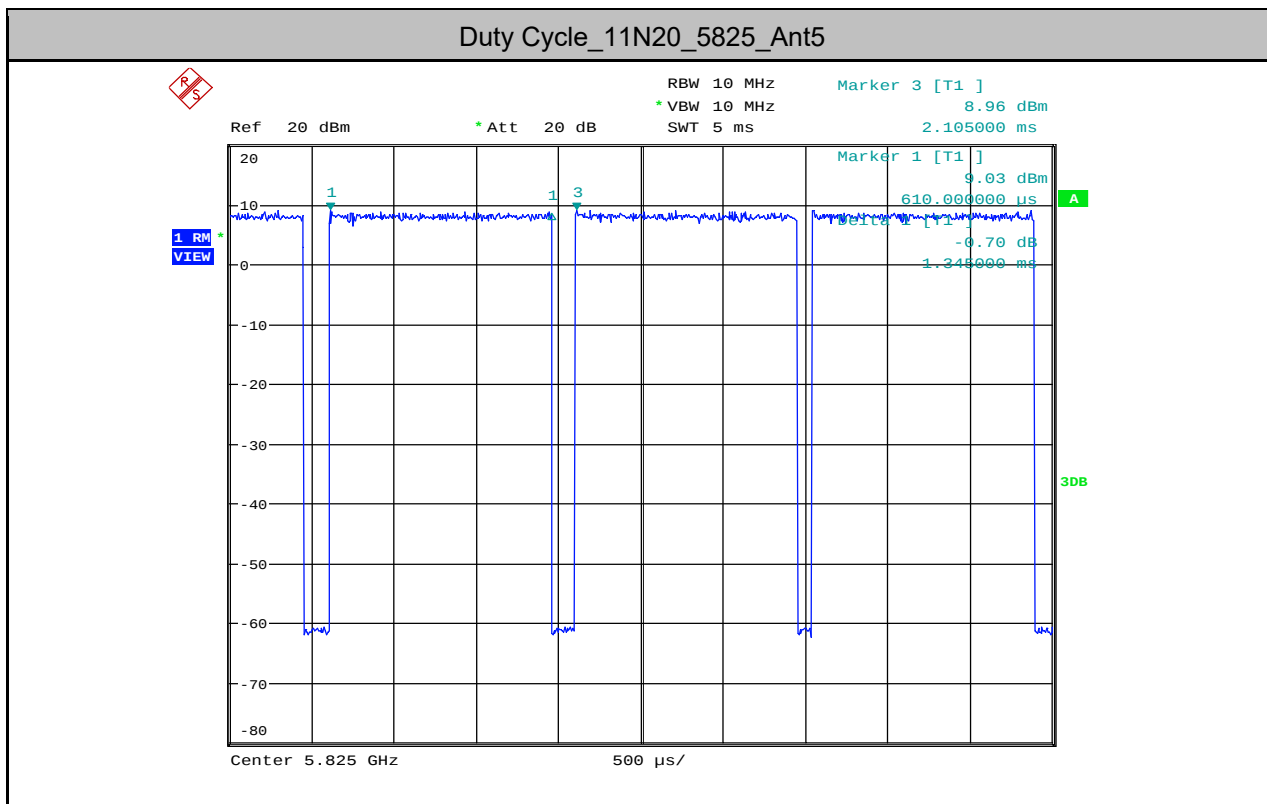
Duty Cycle_11N20_5785_Ant5



Duty Cycle_11N20_5785_Ant6



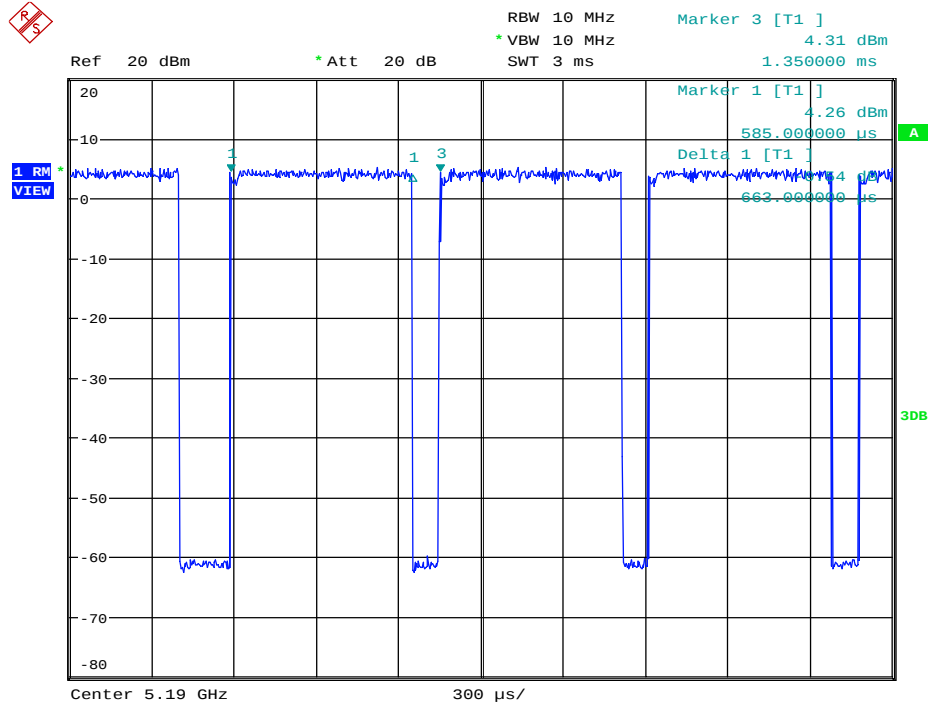
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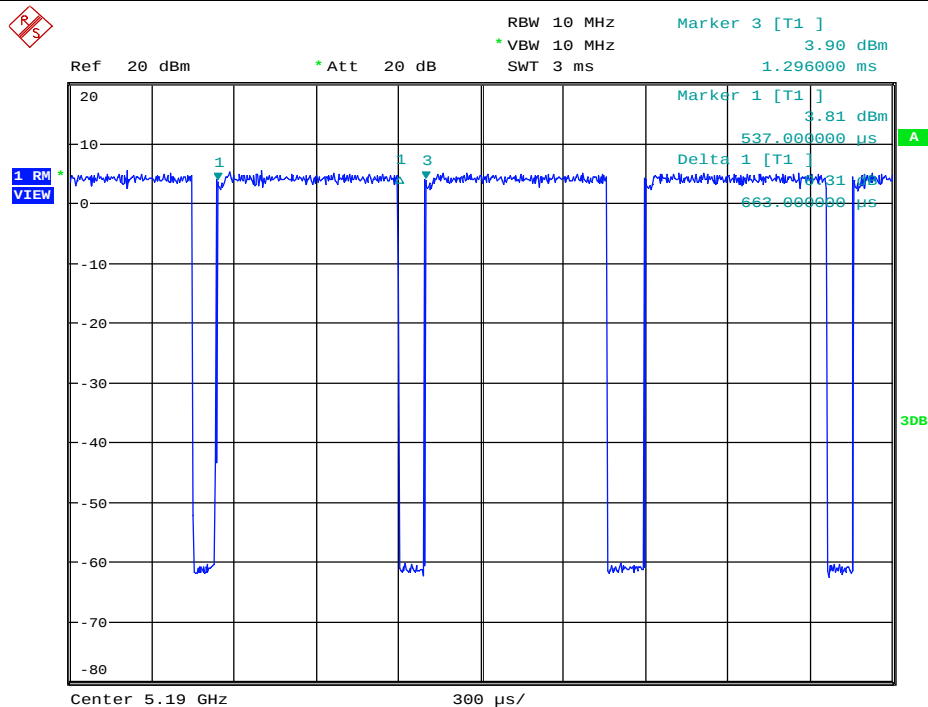
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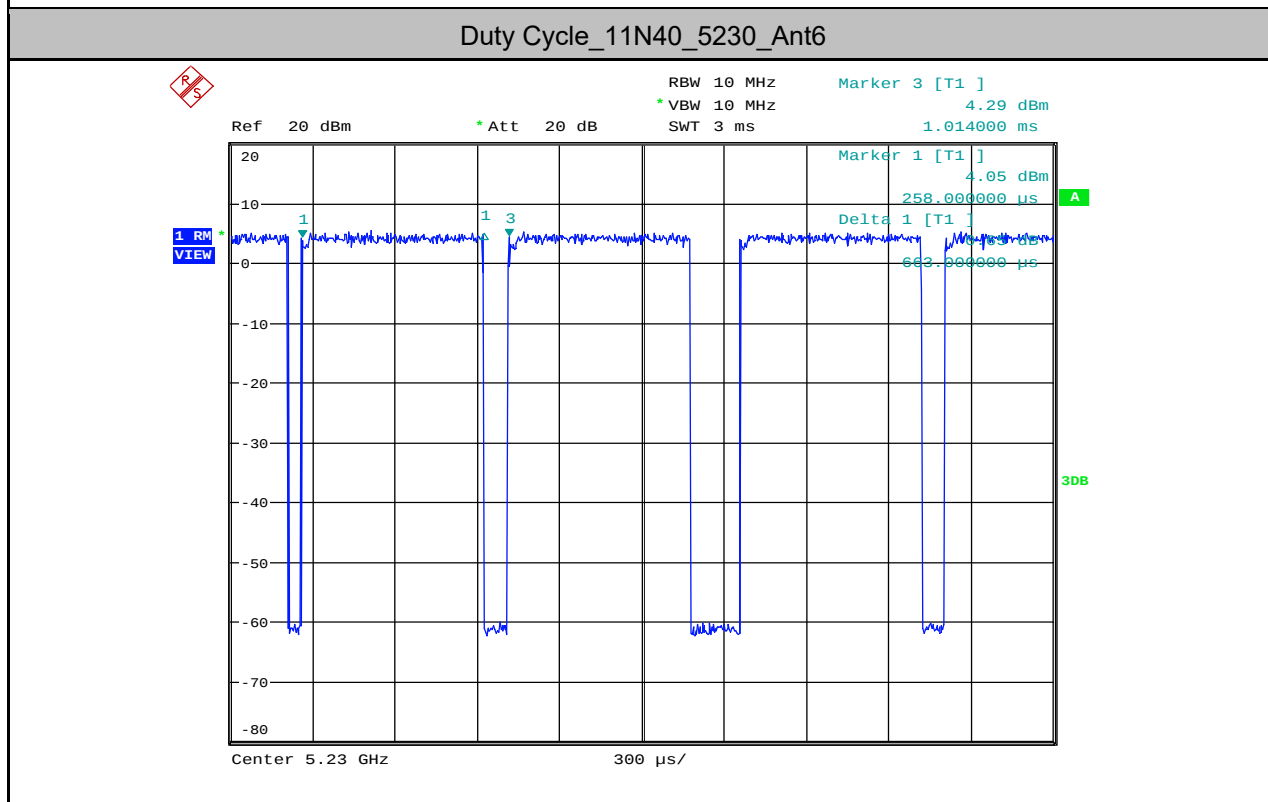
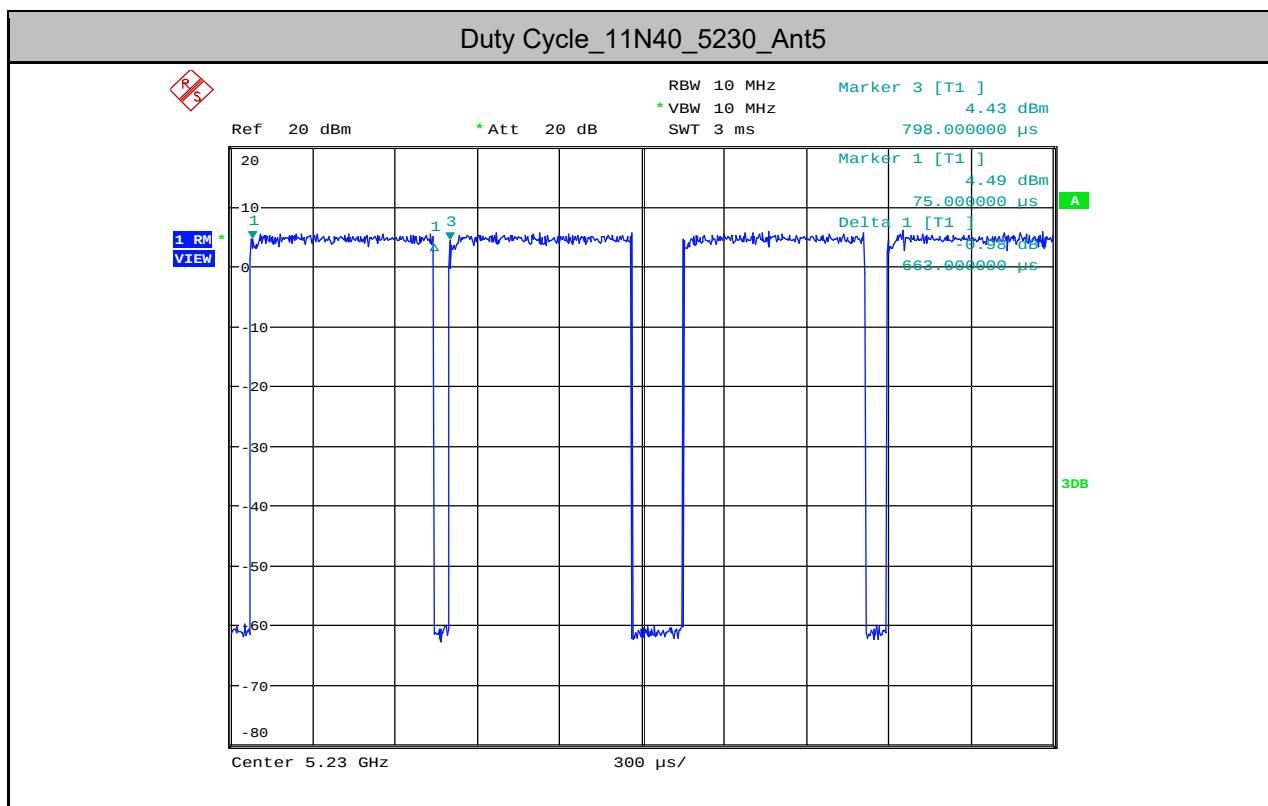
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Duty Cycle_11N40_5190_Ant5

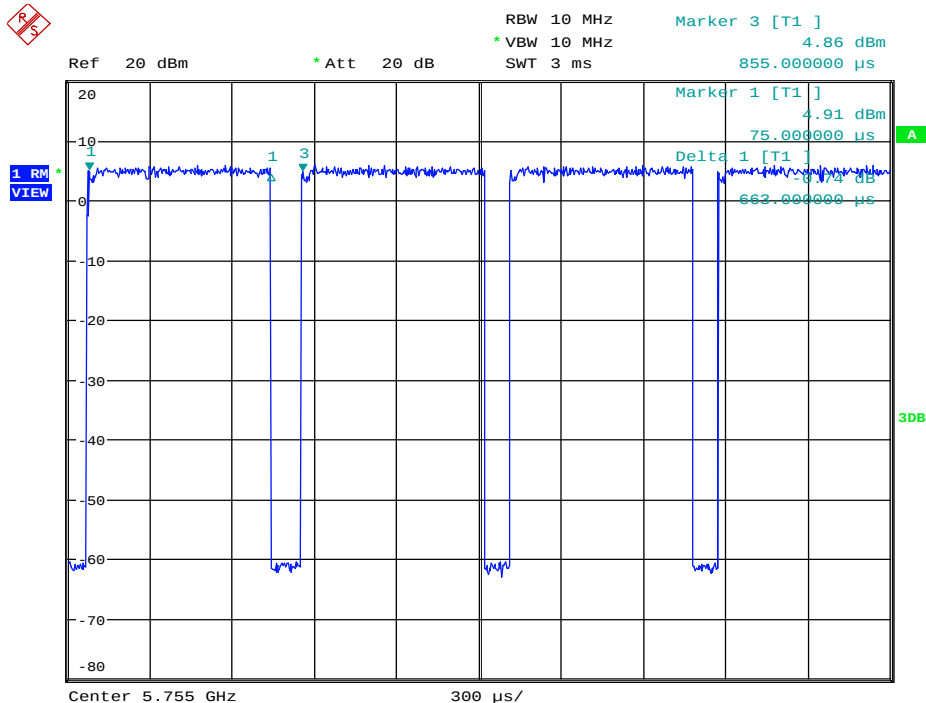


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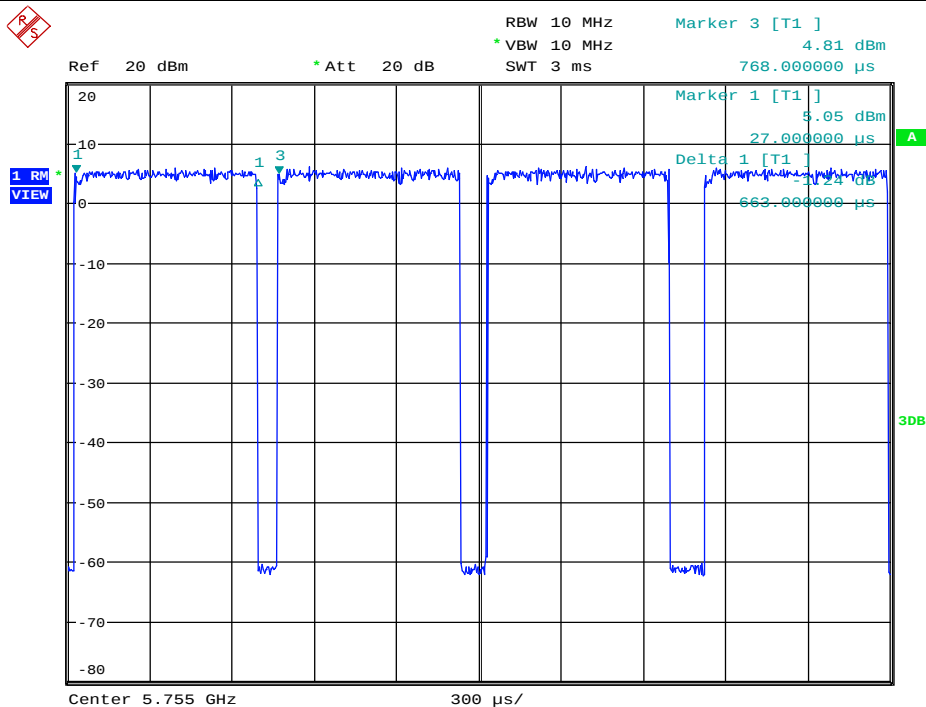




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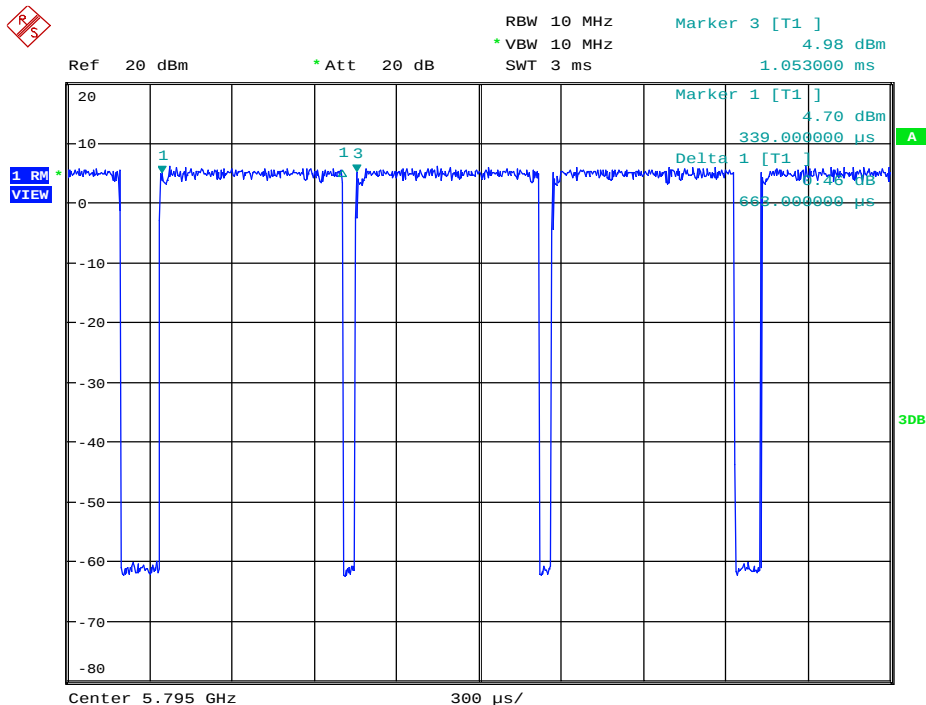
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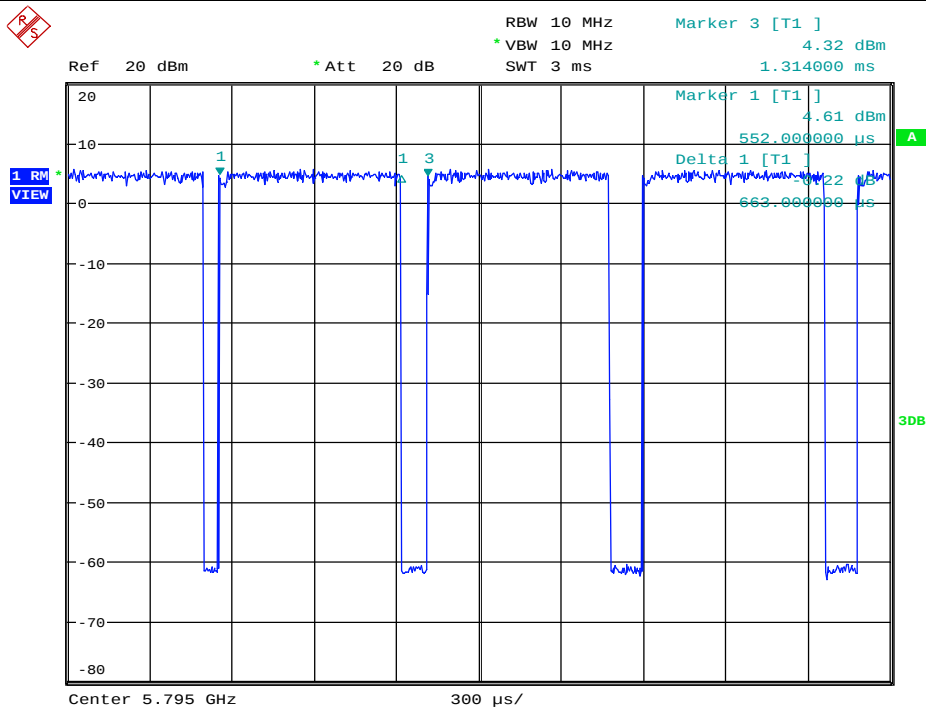
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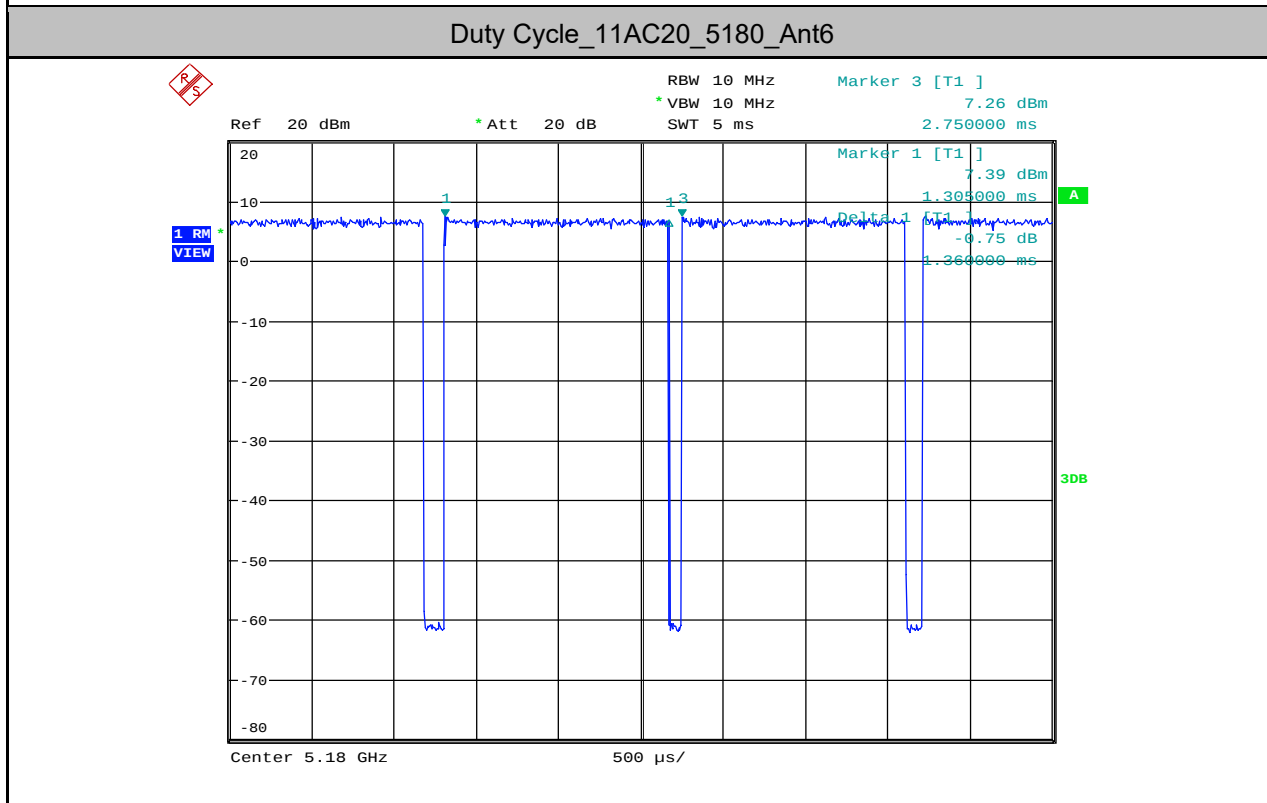
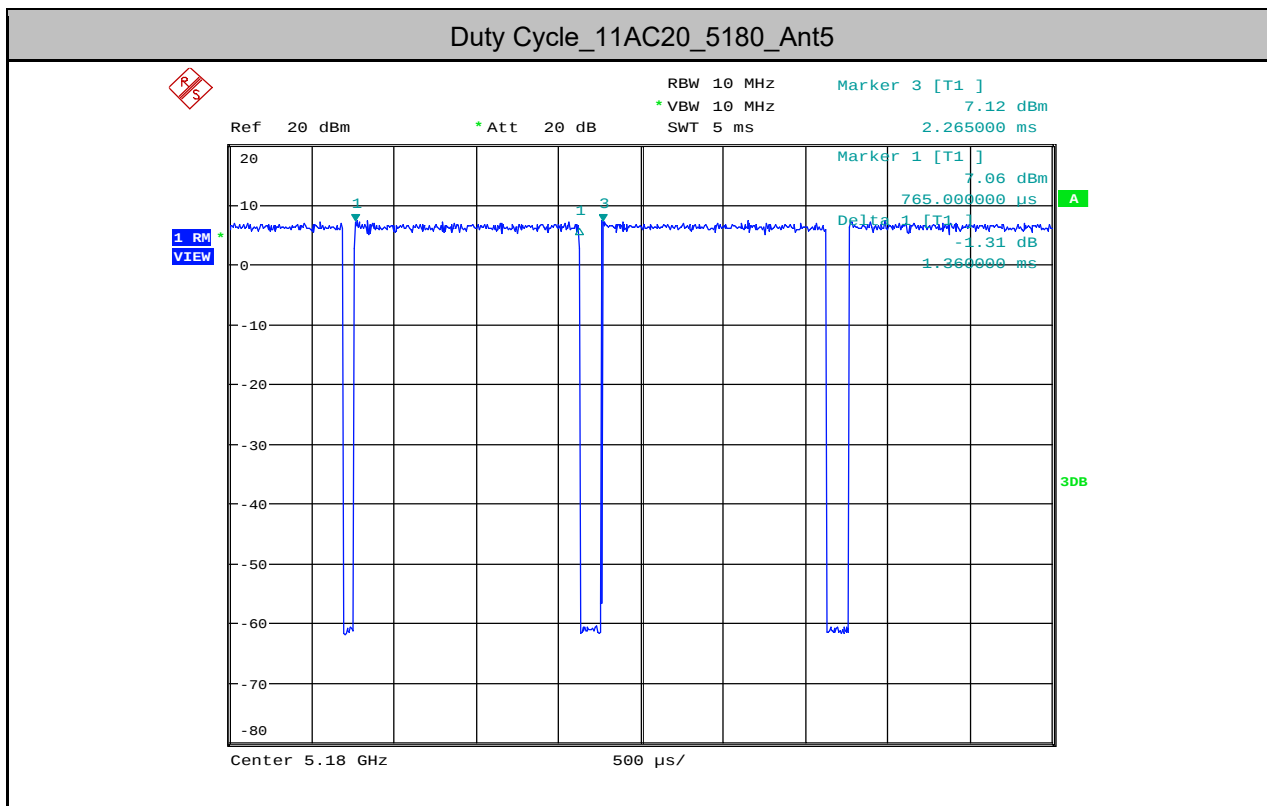
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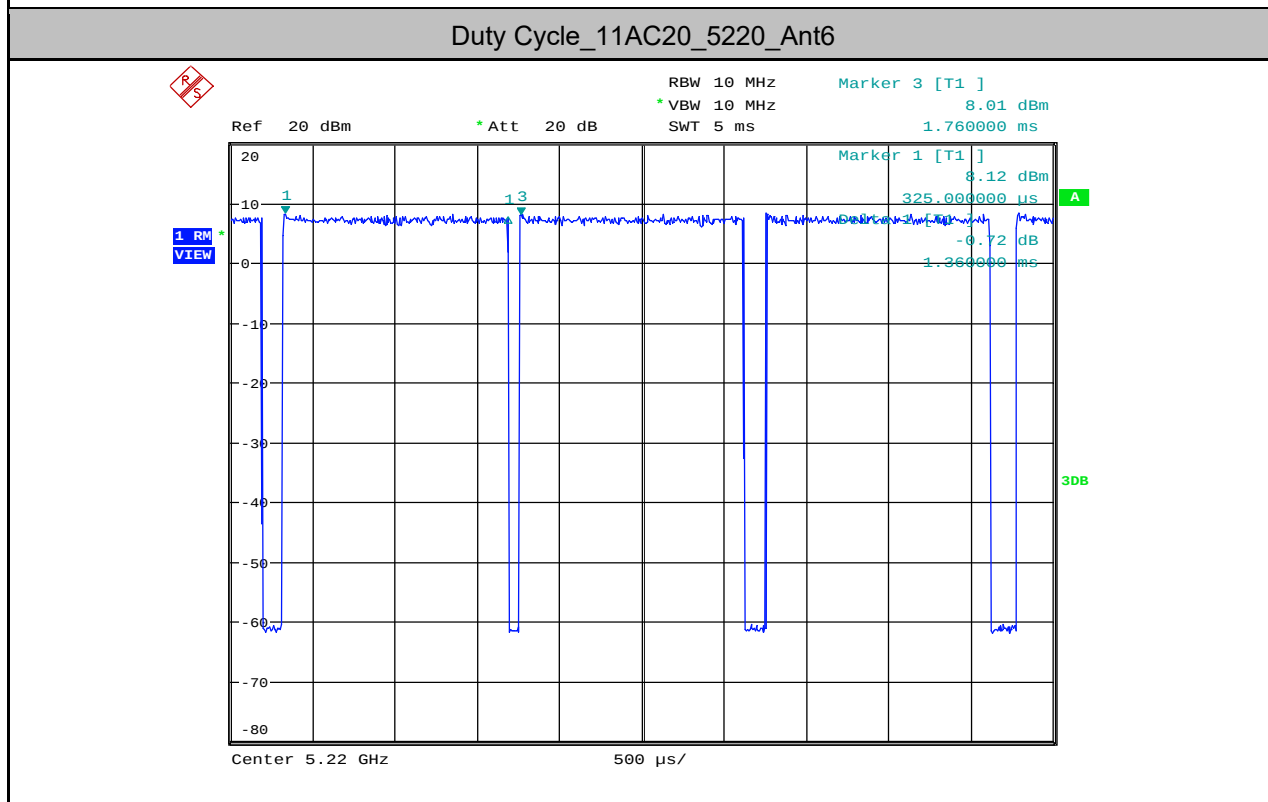
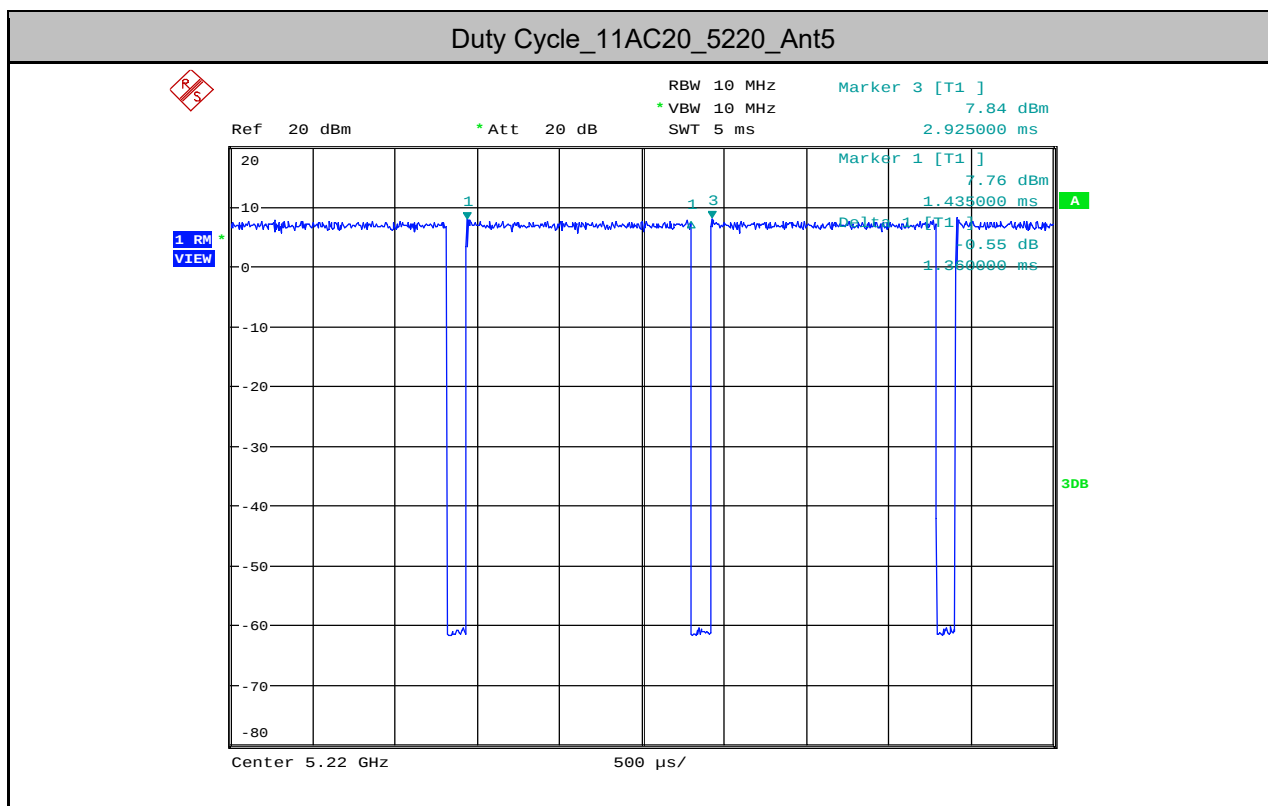


Duty Cycle_11N40_5795_Ant6



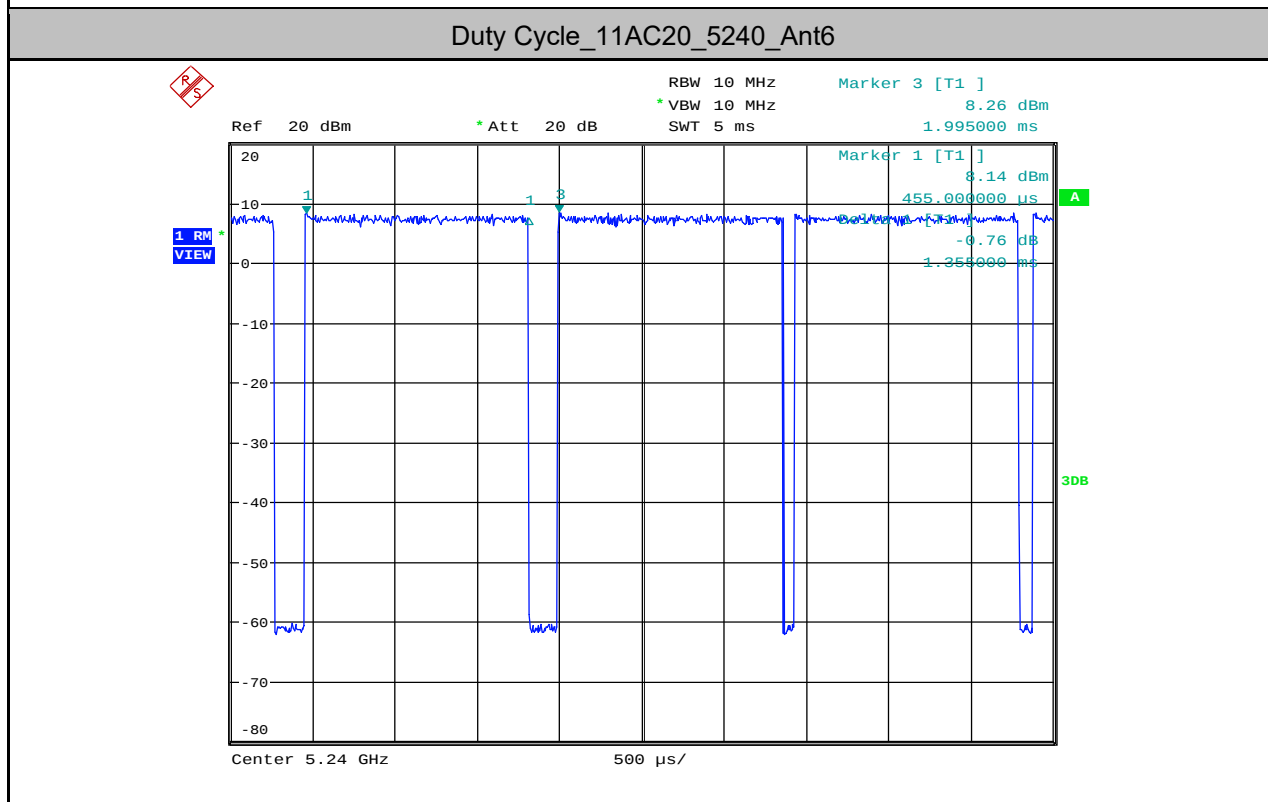
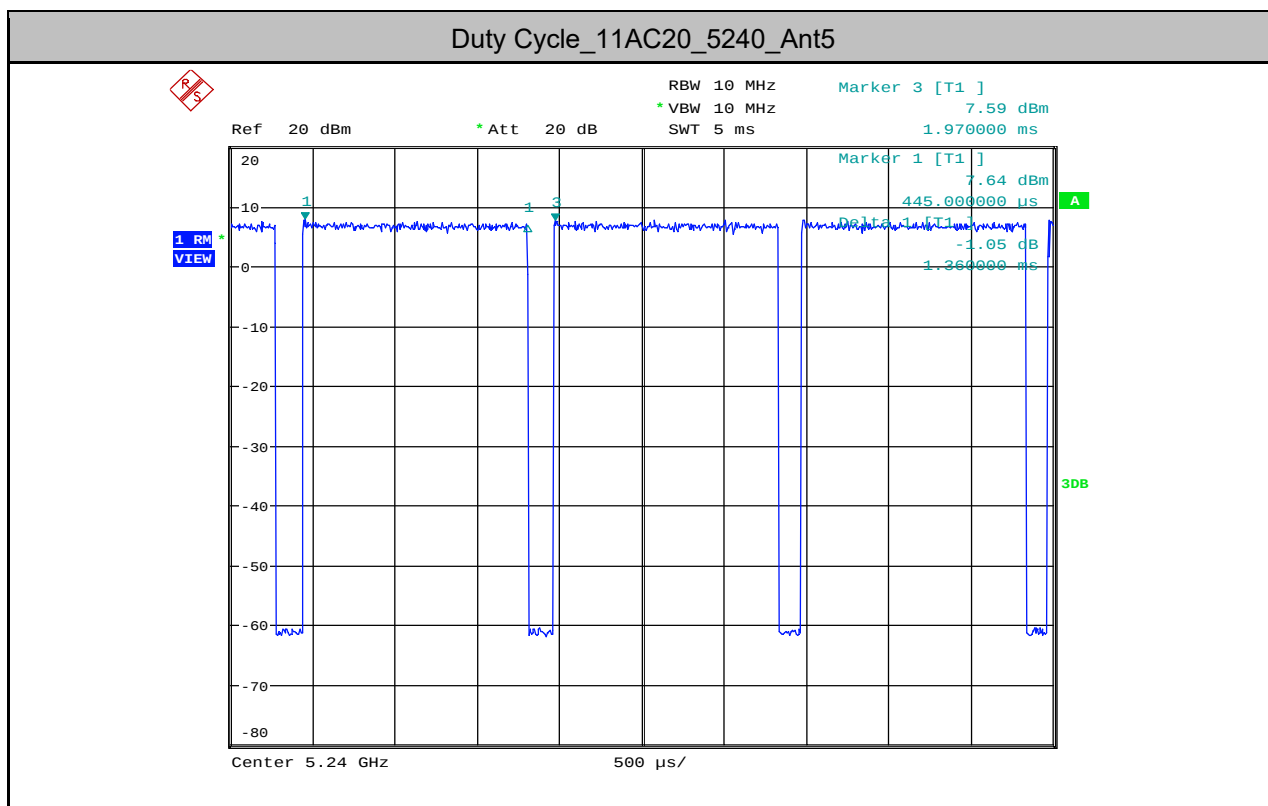
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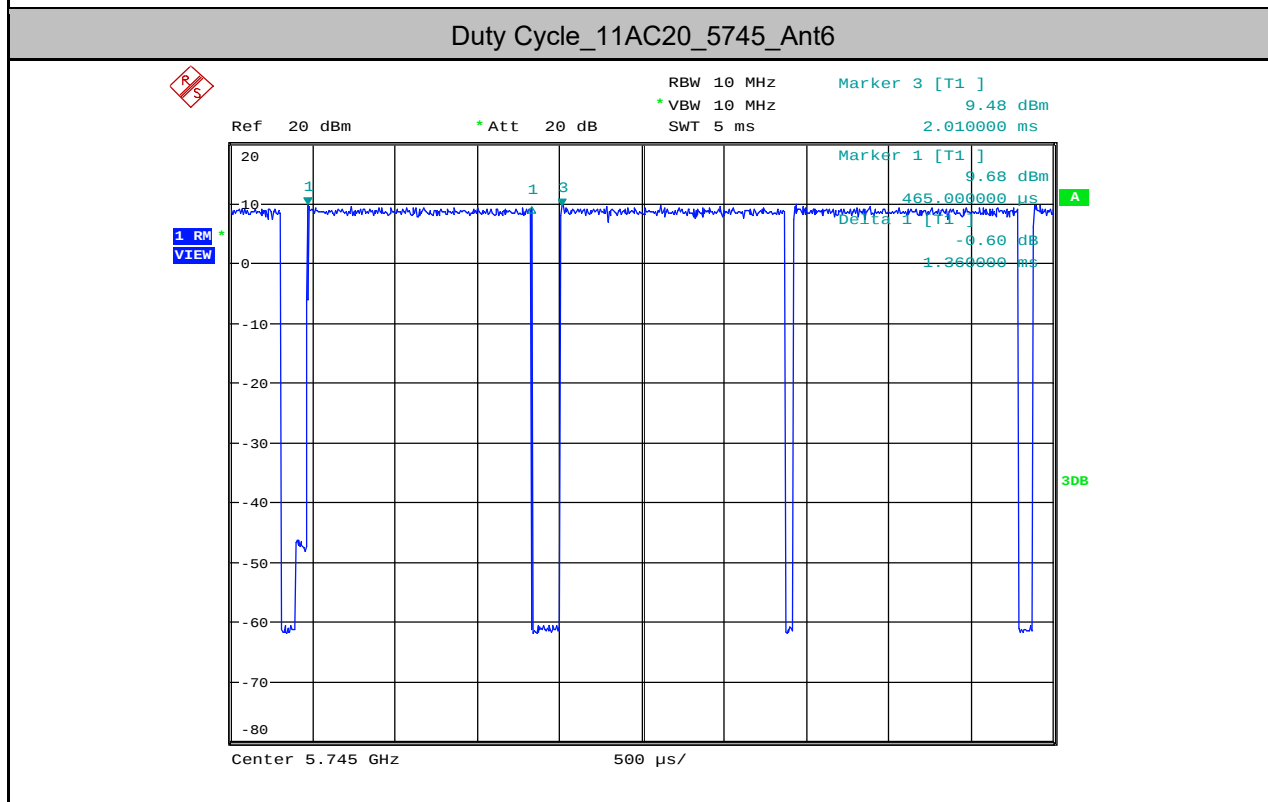
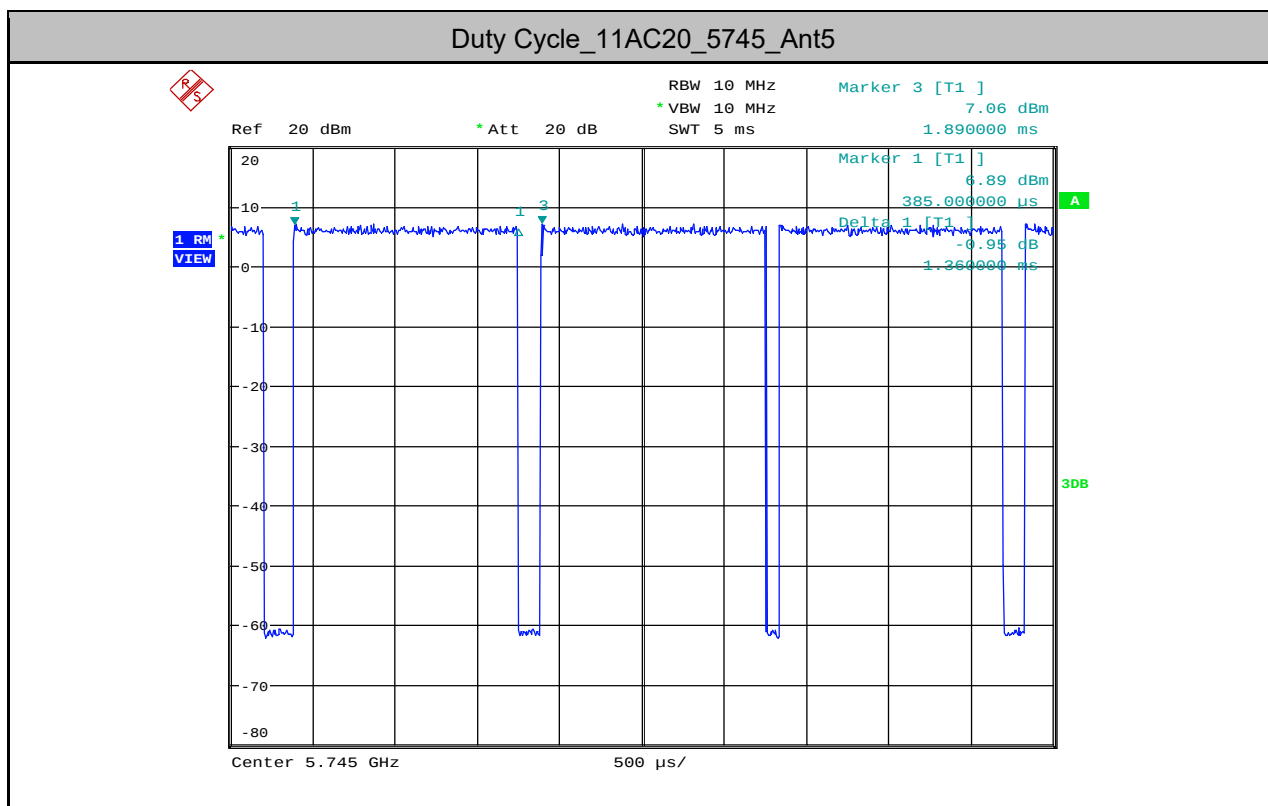


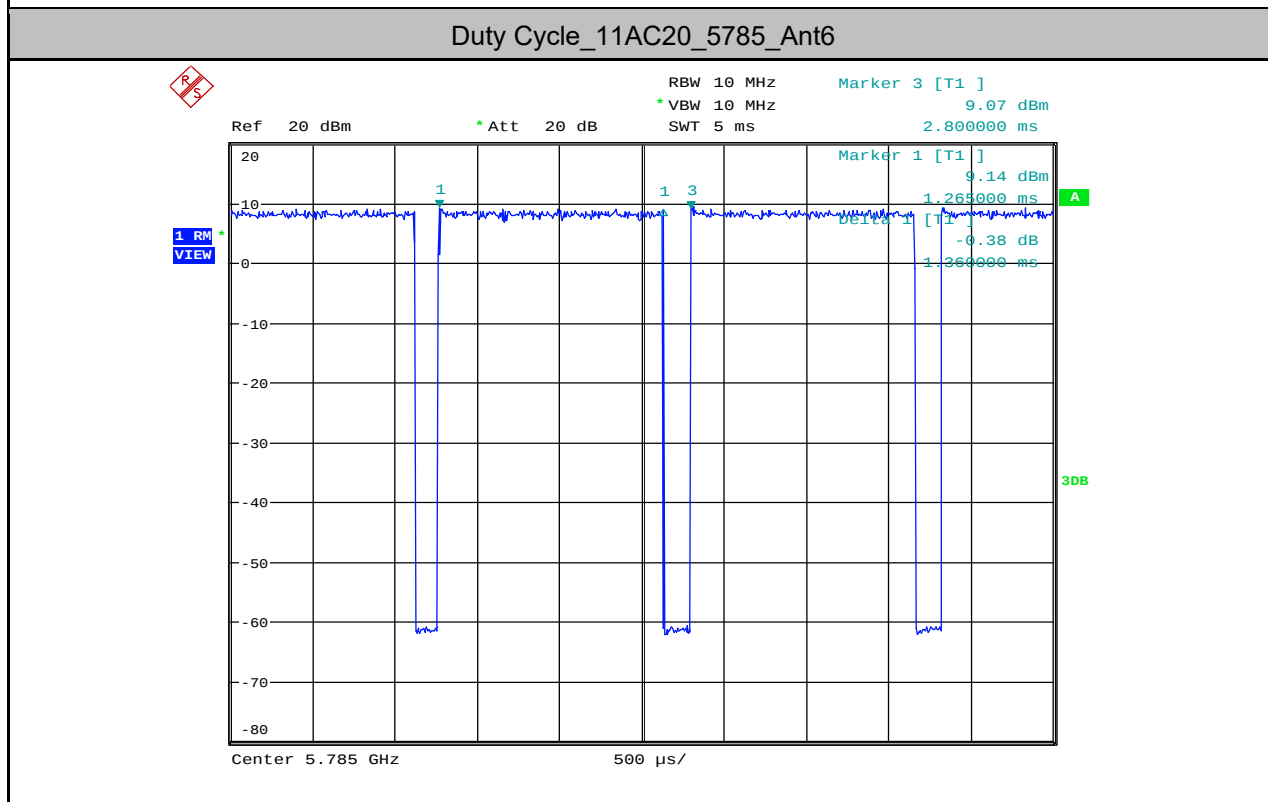
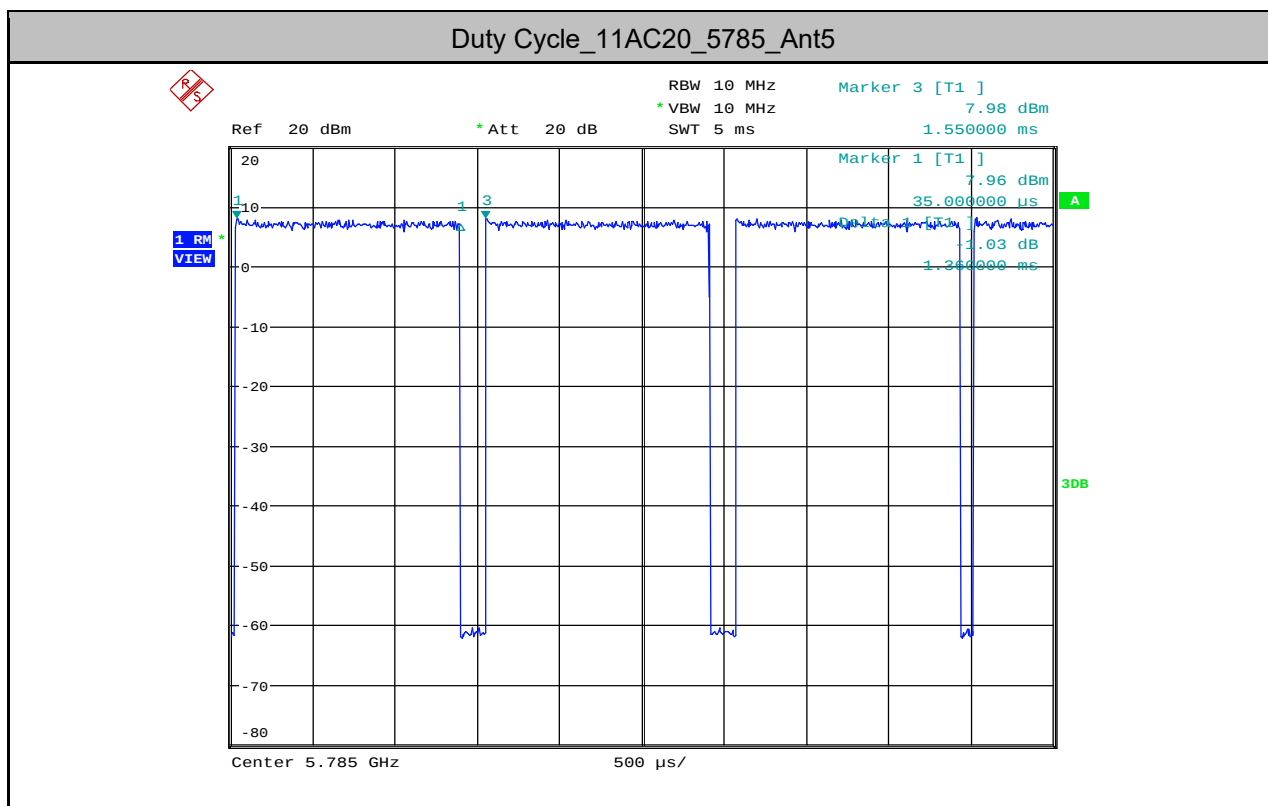


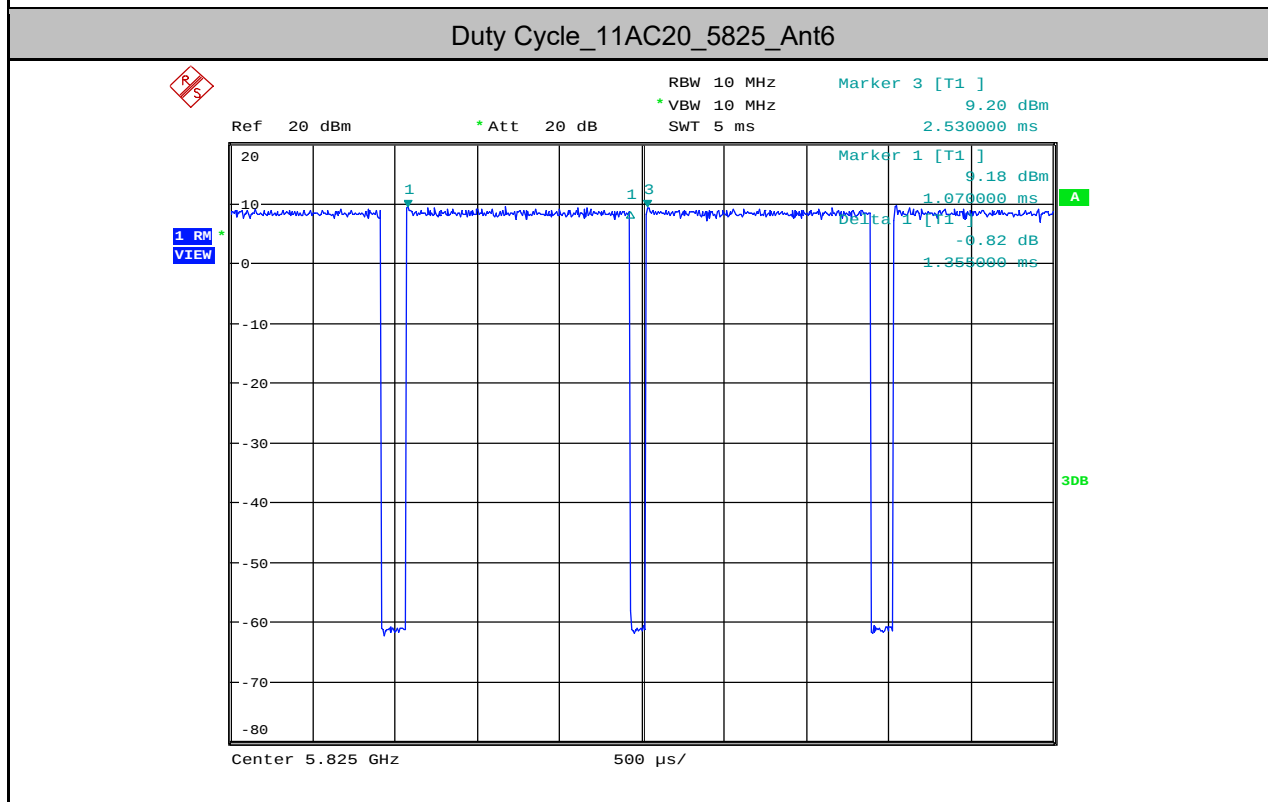
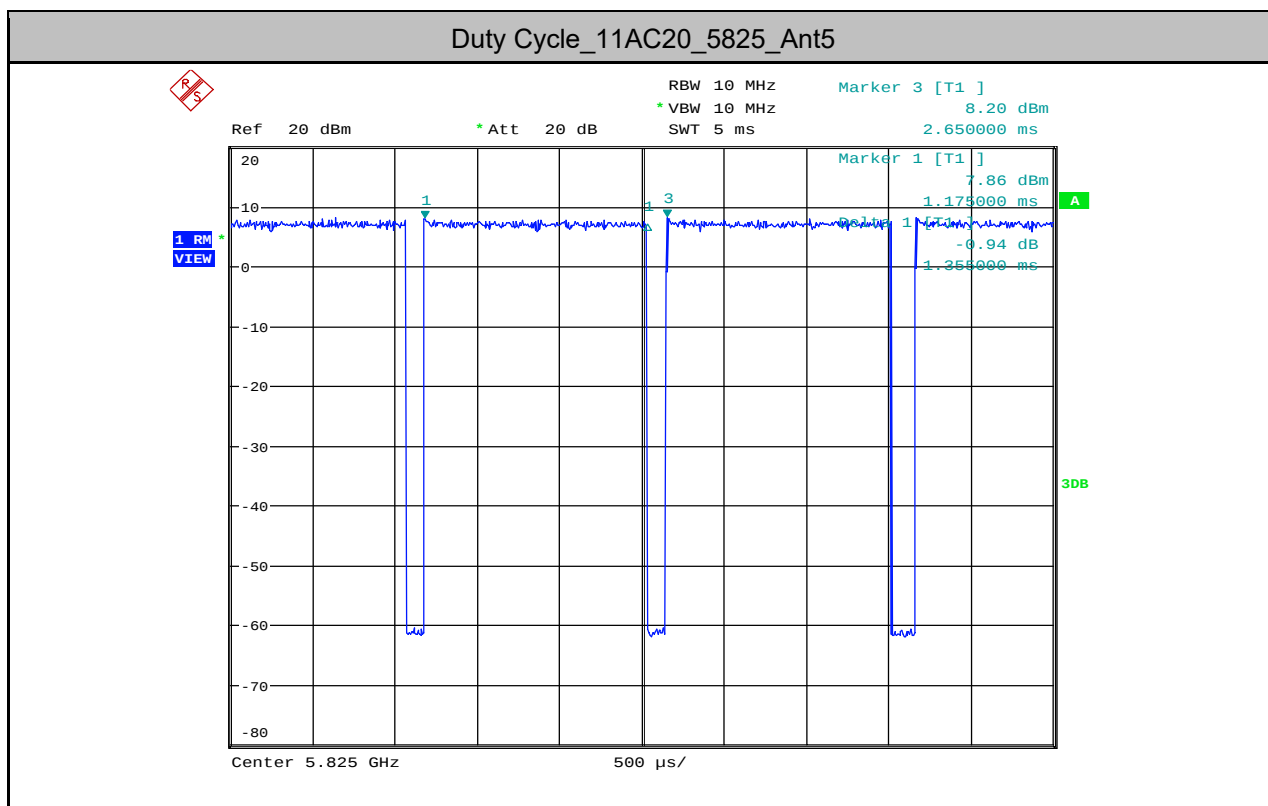
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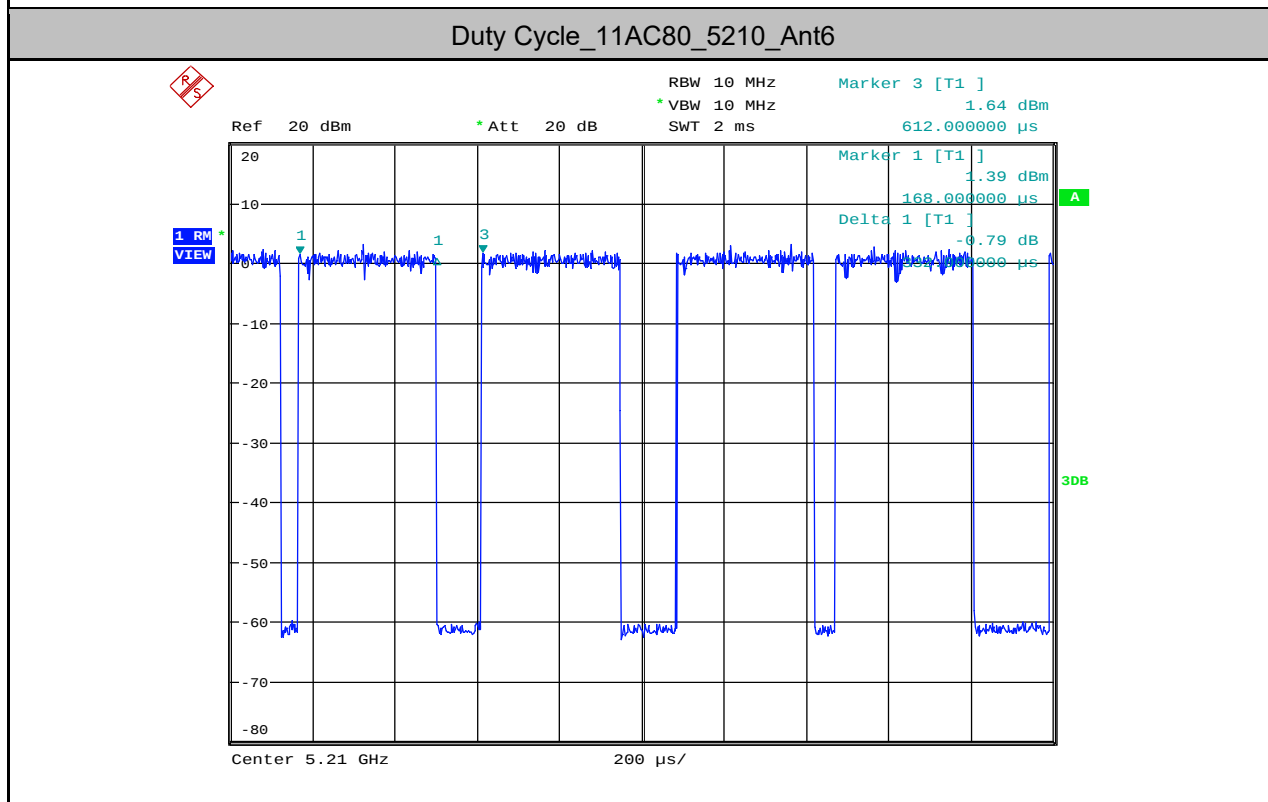
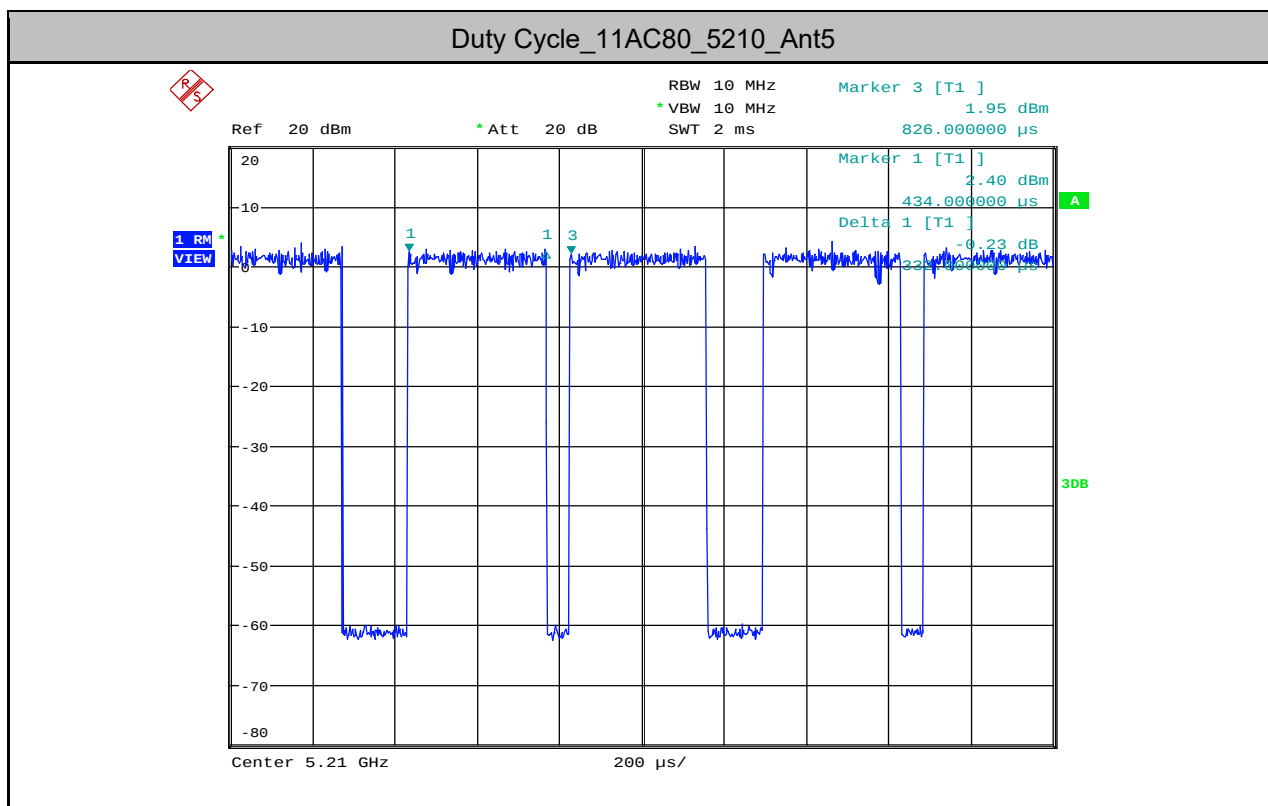
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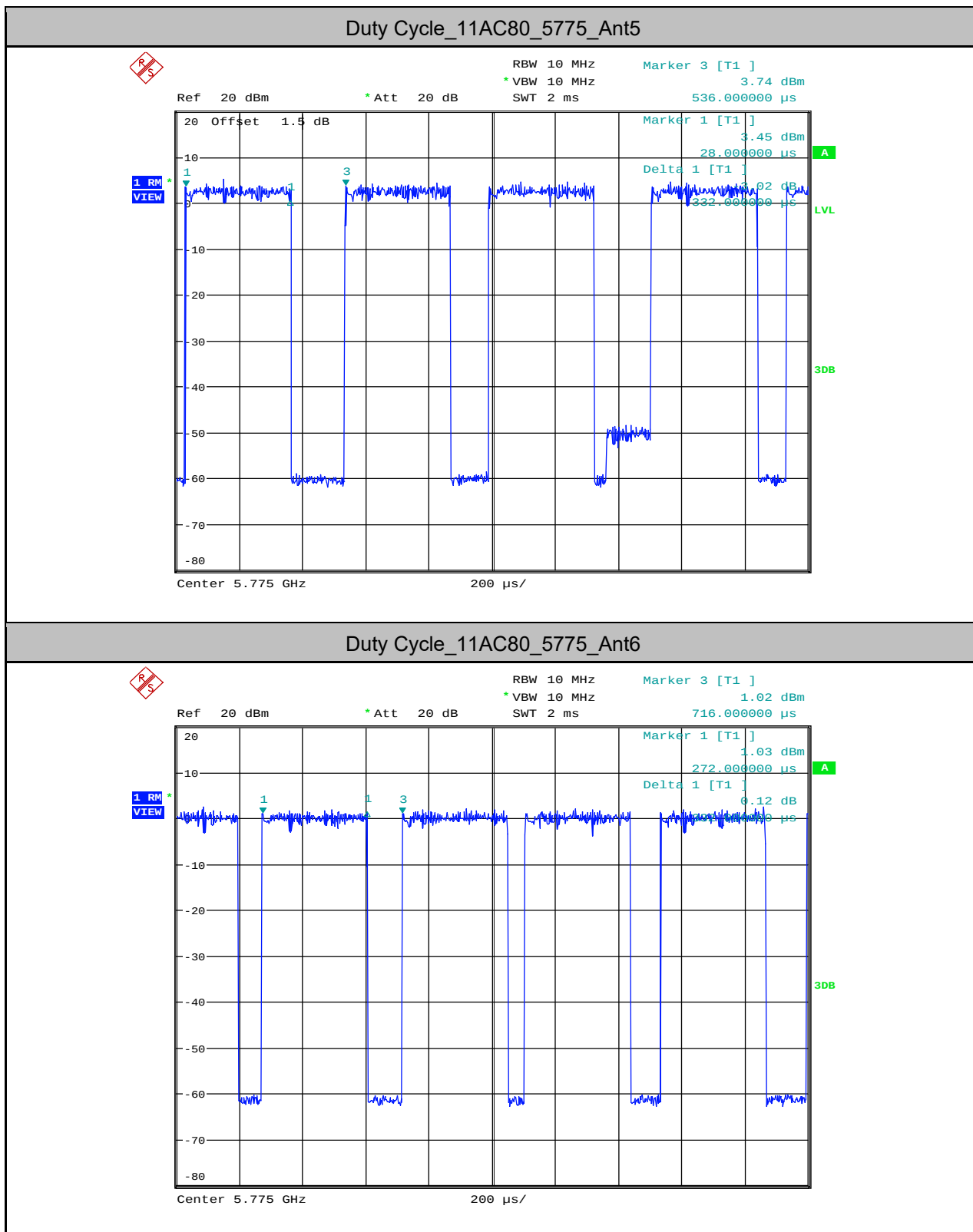






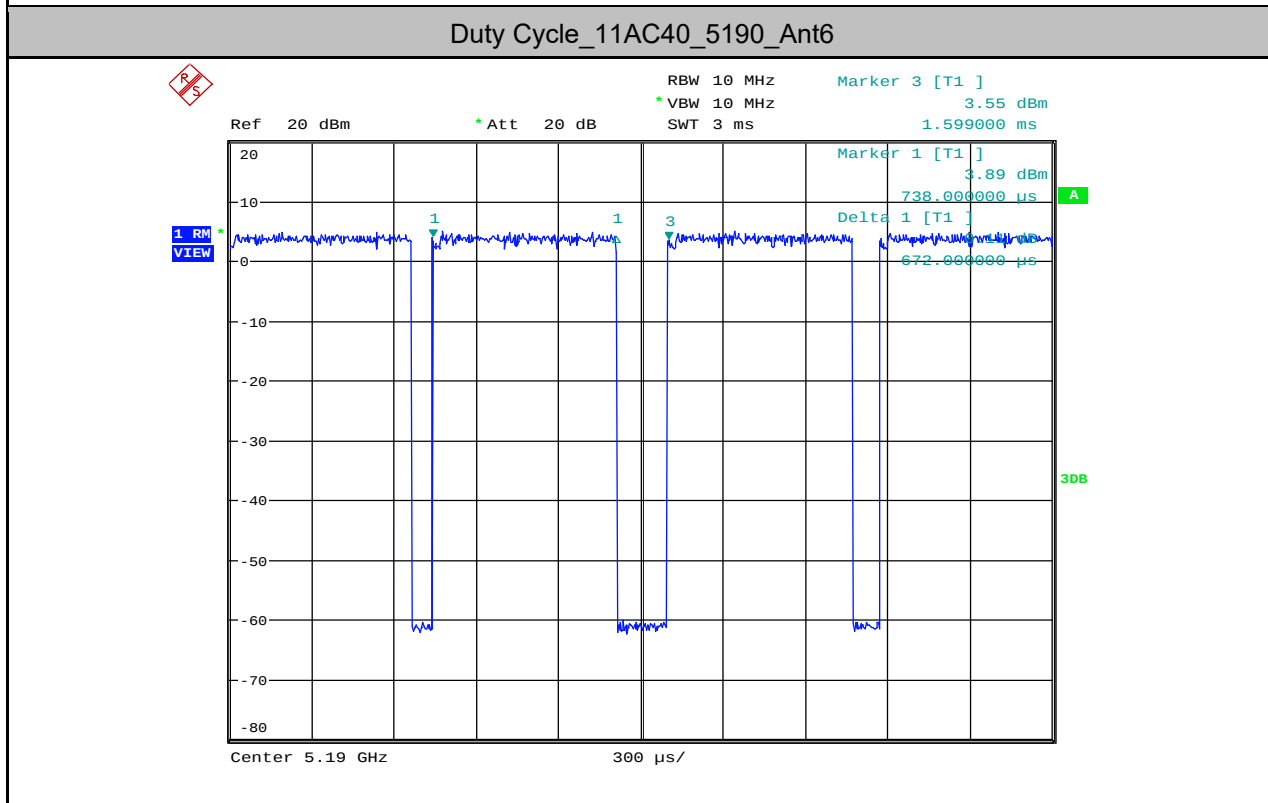
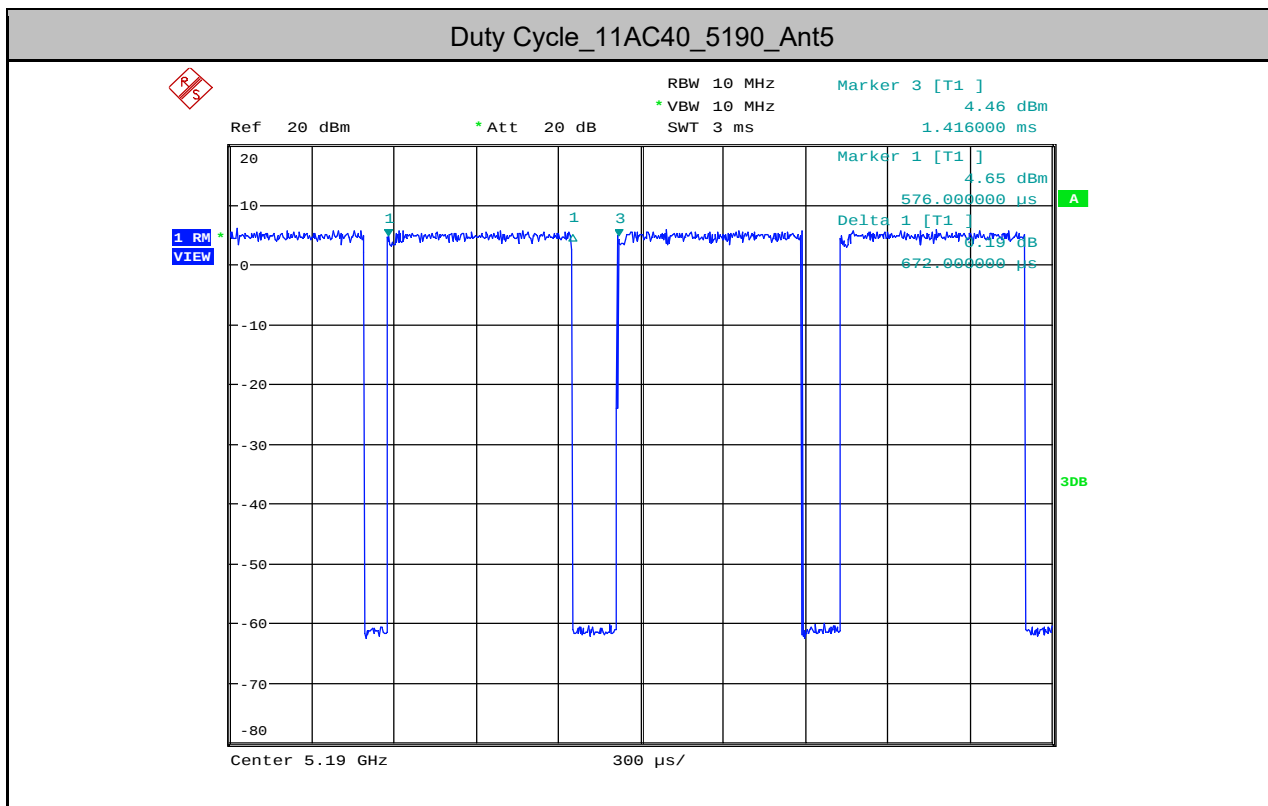


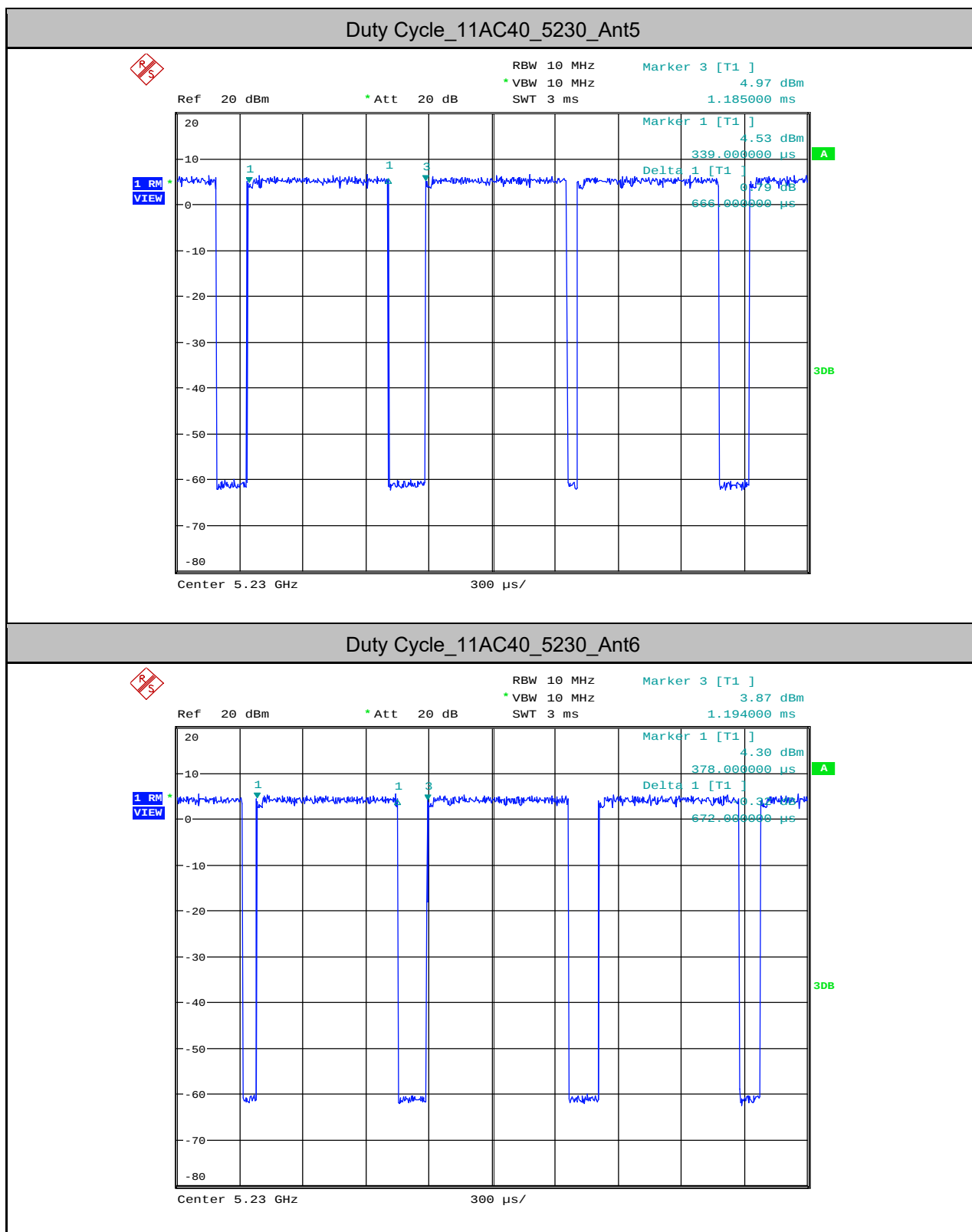


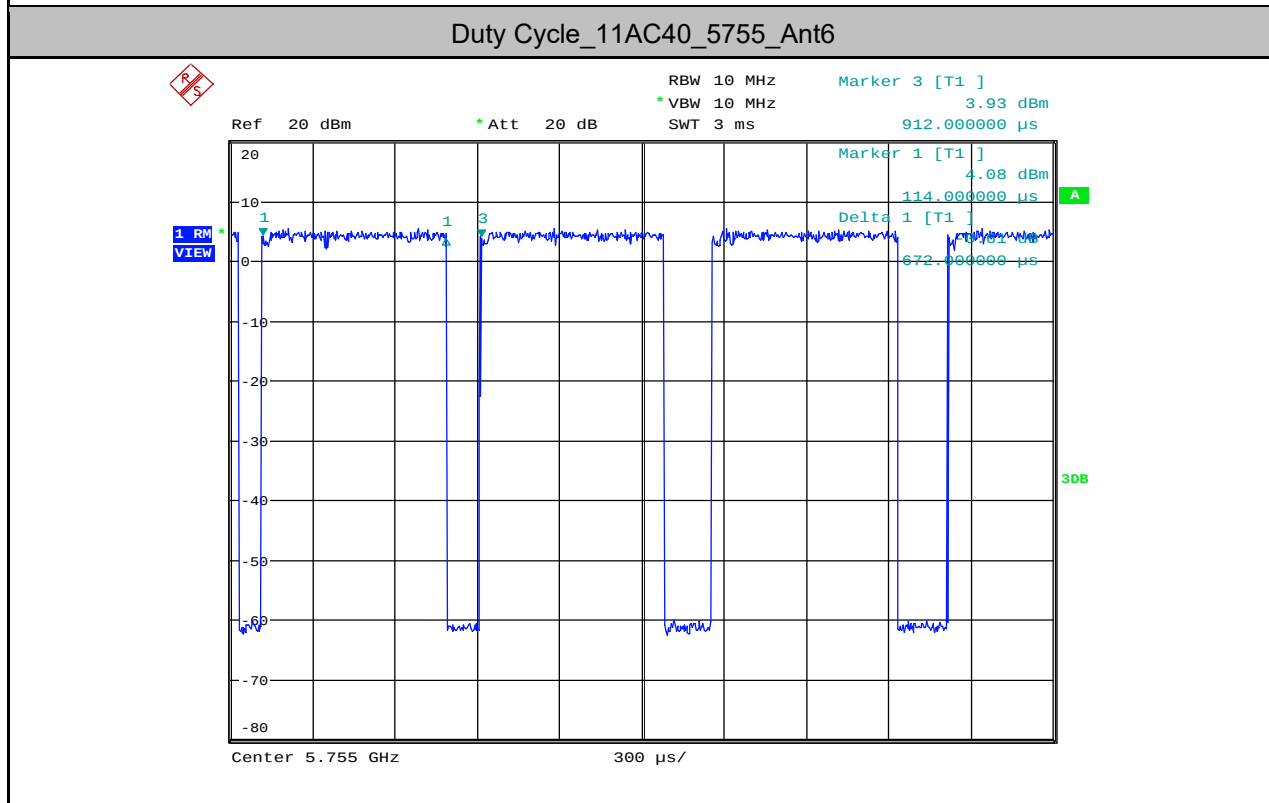
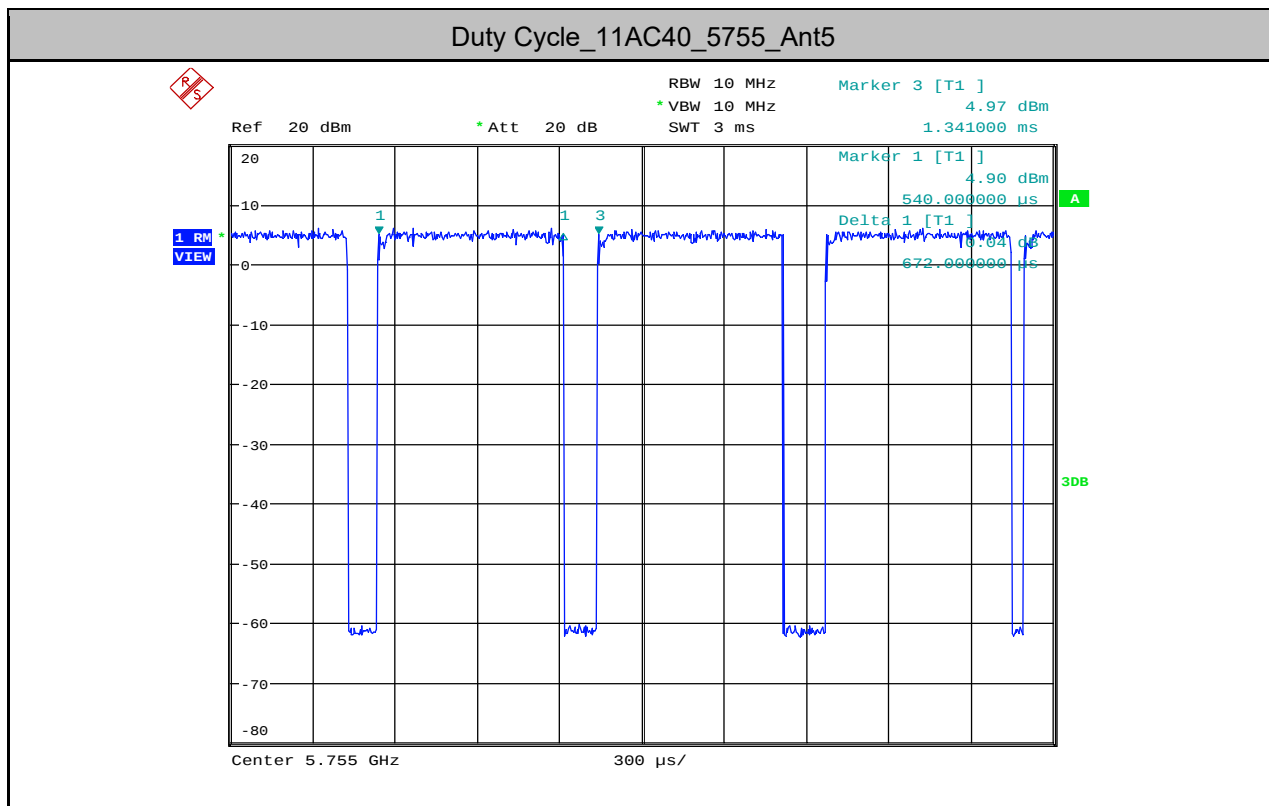


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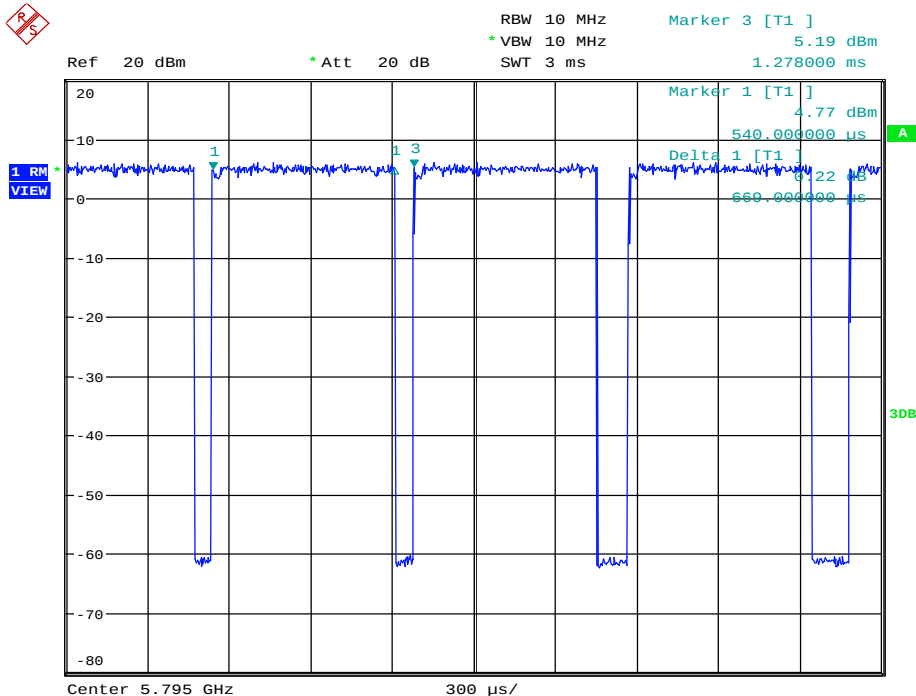




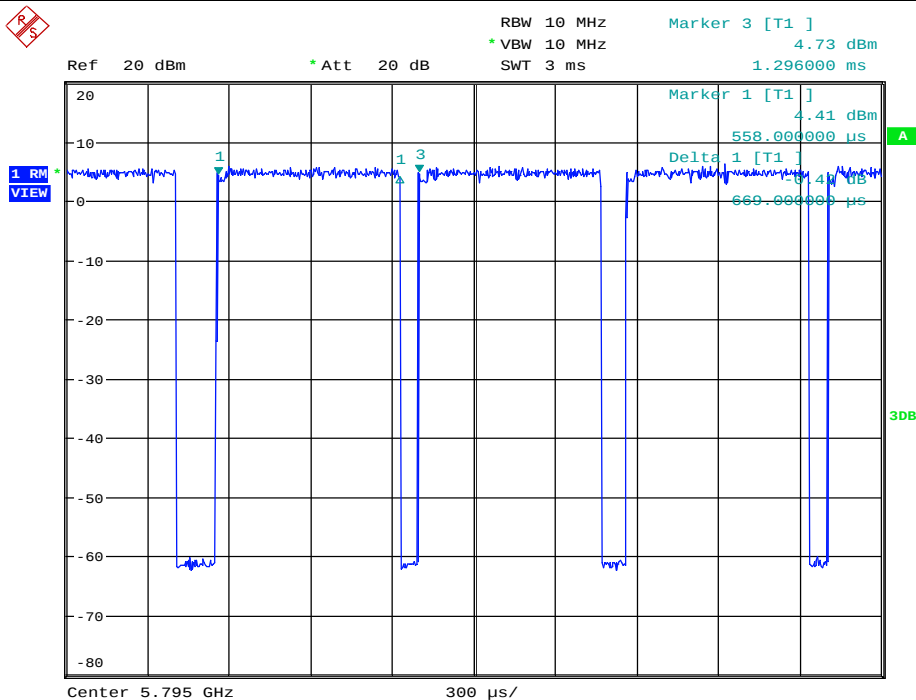


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Duty Cycle_11AC40_5795_Ant5



Duty Cycle_11AC40_5795_Ant6



- End of the Report -

