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Shenzhen Branch**

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Report No.: SZEM170500453402
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TEST REPORT

Application No.: SZEM1705004534CR
Applicant: SAGEMCOM BROADBAND SAS
Address of Applicant: 250 Route de l'Empereur-92848 RUEIL MALMAISON CEDEX-FRANCE
Manufacturer: SAGEMCOM BROADBAND SAS
Address of Manufacturer: 250 Route de l'Empereur-92848 RUEIL MALMAISON CEDEX-FRANCE
Equipment Under Test (EUT):
EUT Name: Wireless Home Router
Model No.: FAST5280
P/N: 253703944
Trade mark: SAGEMCOM
FCC ID: VW3FAST5280
Standards: 47 CFR Part 15, Subpart C 15.407
Date of Receipt: 2017-05-16
Date of Test: 2017-05-17 to 2017-05-30
Date of Issue: 2017-06-06

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



Jack Zhang
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2017-06-06		Original

Authorized for issue by:				
				
		Hank Yan /Project Engineer		
				
		Eric Fu /Reviewer		



2 Test Summary

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

N/A: Not applicable

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Disturbance at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)	Pass
99% Bandwidth	47 CFR Part 15, Subpart C 15.407	KDB 789033 II D	N/A	Pass
26dB Emission bandwidth	47 CFR Part 15, Subpart C 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 C 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 C 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 C 15.407	KDB 789033 D02 II F	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Radiated Emissions	47 CFR Part 15, Subpart C 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 C 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 C 15.407	ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.407 (g)	Pass

N/A: Not applicable



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4 General Information

4.1 Details of E.U.T.

Power supply:	Adaptor 1: Model: MSA-C2500IS12.0-30D-US Input: AC 100-120V, 50/60Hz, 1.0A max Output: DC 12.0V, 2.5A Adaptor 2: Model: LPL-D030120250ZL Input: AC 100-120V, 50/60Hz, 0.8A Max Output: DC 12V, 2.5A Adaptor 3: Model: NBS30E120250VU Input: AC 100-120V, 60Hz, 0.9A Output: DC 12V, 2.5A			
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band I	IEEE 802.11a/n(HT20)/ac(HT20)	5180-5240	4
		IEEE 802.11n(HT40)/ac(HT40)	5190-5230	2
		IEEE 802.11ac(HT80)	5210	1
	UNII Band III	IEEE 802.11a/n(HT20)/ac(HT20)	5745-5825	5
		IEEE 802.11n(HT40)/ac(HT40)	5755-5795	2
		IEEE 802.11ac(HT80)	5775	1
Modulation Type:	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)			
Sample Type:	Mobile device			
Antenna Type:	ANT2: PIFA; ANT3: Dipole; ANT4: Dipole; ANT5: Dipole			
Antenna Gain:	ANT2: 4.9dBi; ANT3: 4.05dBi; ANT4: 3.65dBi; ANT5:3.84dBi			

4.2 Description of Support Units

The EUT has been tested as an independent unit.



Channel list for 802.11a/n(HT20)/ac(HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	40	5200MHz	44	5220MHz	48	5240MHz
149	5745MHz	153	5765MHz	157	5785MHz	161	5805MHz
165	5825MHz						

Channel list for 802.11n(HT40)/ac(HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190MHz	46	5230MHz	151	5755MHz	159	5795MHz

Channel list for 802.11ac(HT80)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210MHz	155	5775MHz				

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



4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.25×10^{-8}
2	Duty cycle	0.37%
3	Occupied Bandwidth	3%
4	RF conducted power	0.75dB
5	RF power density	2.84dB
6	Conducted Spurious emissions	0.75dB
7	RF Radiated power	4.5dB (below 1GHz)
		4.8dB (above 1GHz)
8	Radiated Spurious emission test	4.5dB (30MHz-1GHz)
		4.8dB (1GHz-18GHz)
9	Temperature test	1 °C
10	Humidity test	3%
11	Supply voltages	1.5%
12	Time	3%



4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

4.5 Test Facility

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

- **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 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

- **FCC – Registration No.: 556682**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

- **Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



5 Equipment List

Conducted Disturbance at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017-05-10	2018-05-10
LISN	Rohde & Schwarz	ENV216	SEM007-01	2016-10-09	2017-10-09
LISN	ETS-LINDGREN	3816/2	SEM007-02	2017-04-14	2018-04-14
8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2016-09-28	2017-09-28
4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2016-09-28	2017-09-28
2 Line ISN	Fischer Custom	FCC-TLISN-T2-02	EMC0122	2016-09-28	2017-09-28

RF Conducted Test					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-09	2017-10-09
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09

Radiated Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2017-05-10	2018-05-10
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-09	2016-07-19	2017-07-19
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2014-11-15	2017-11-15
Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2016-10-09	2017-10-09
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14
Horn Antenna (18-26GHz)	ETS-Lindgren	3160	SEM003-12	2014-11-24	2017-11-24
Horn Antenna(26GHz-40GHz)	A.H.Systems, inc.	SAS-573	SEM003-13	2015-02-12	2018-02-12
Low Noise Amplifier	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2016-10-09	2017-10-09
Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A



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General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2016-10-12	2017-10-12
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2016-10-12	2017-10-12
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2016-10-12	2017-10-12
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2017-04-18	2018-04-18

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

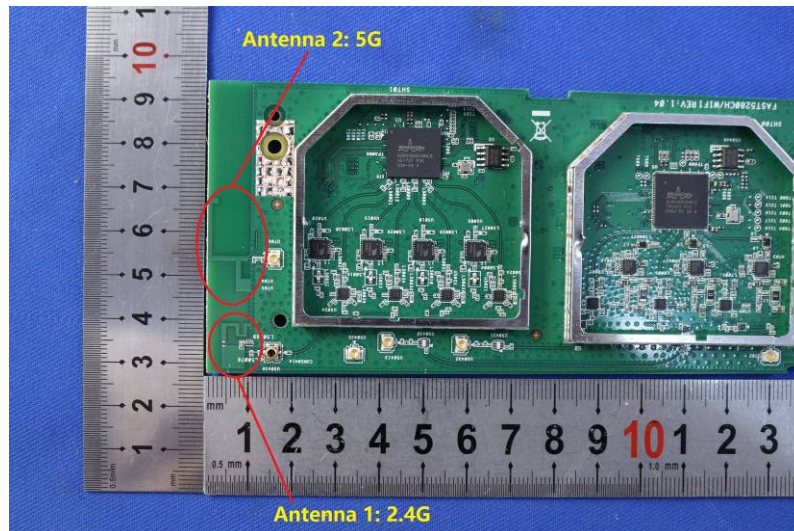
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an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

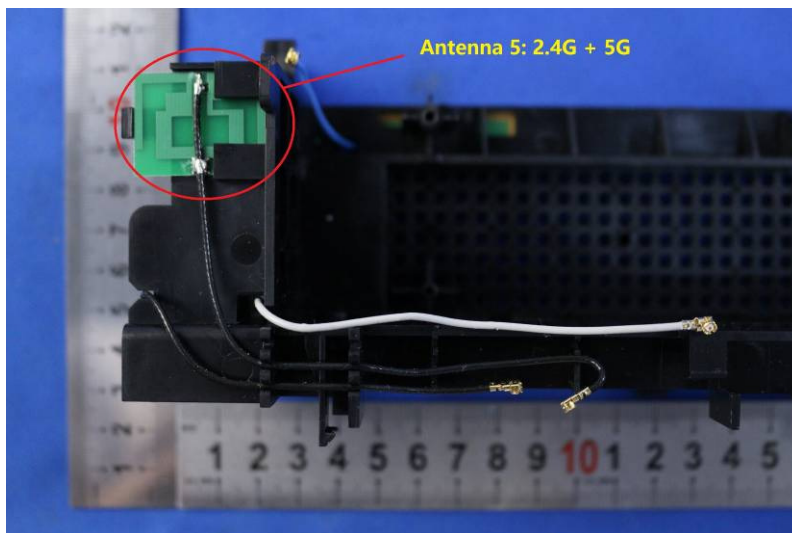
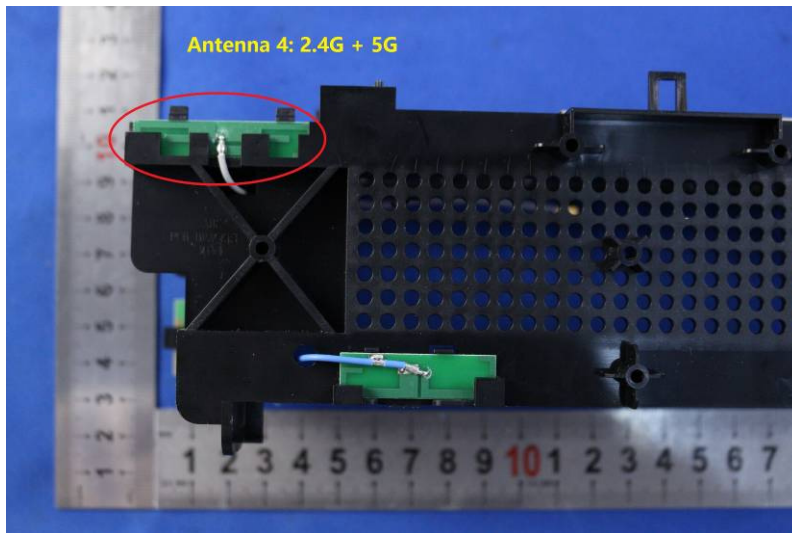
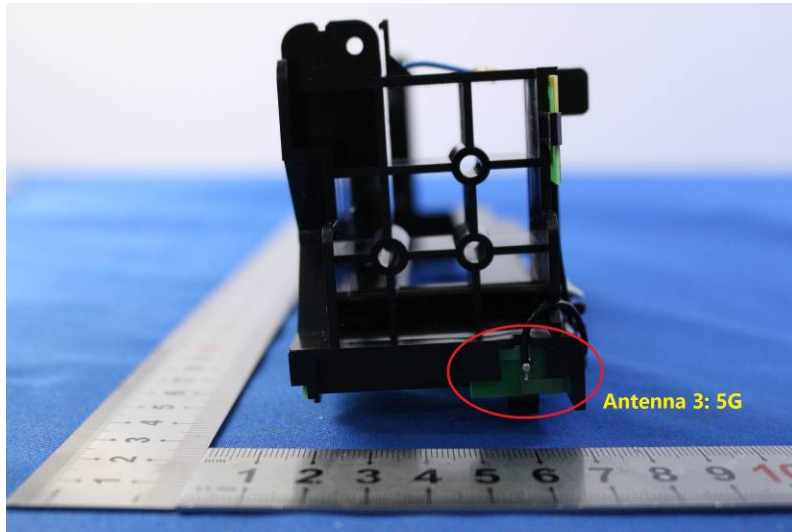
EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna for 5G is below:

ANT2: 4.9dBi; ANT3: 4.05dBi; ANT4: 3.65dBi; ANT5:3.84dBi

According to KDB 662911 D01 section F.2(d)(i), the direction gain = $10 \times \log [(10^{4.9/20} + 10^{4.05/20} + 10^{3.65/20} + 10^{3.84/20})^2 / 4] = 10.14\text{dBi}$







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 (BCM4366E) 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 Conducted Disturbance at AC Power Line (150kHz-30MHz)

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

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

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		

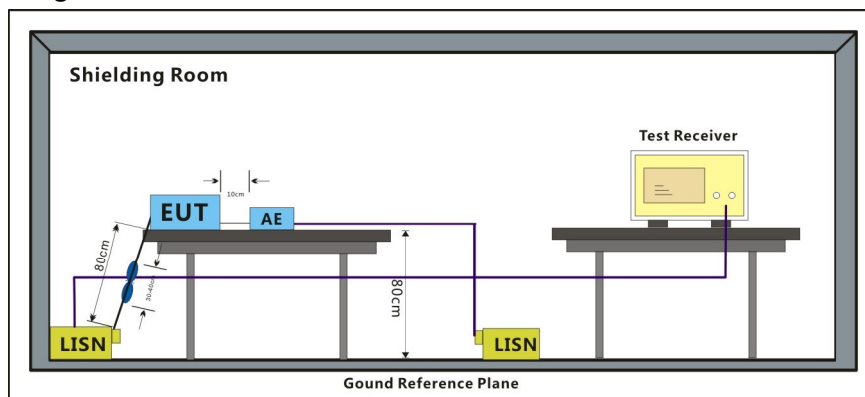
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1015 mbar

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

7.1.2 Test Setup Diagram

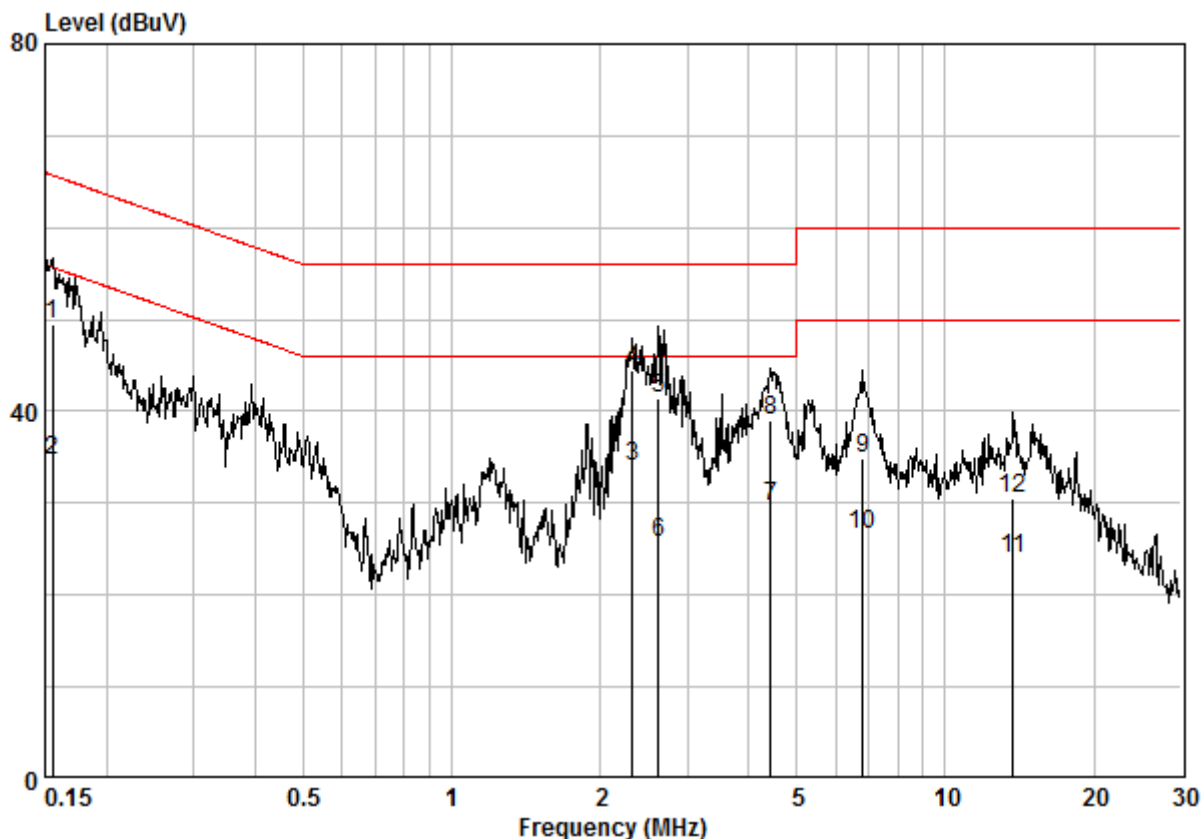


7.1.3 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Three adapter were tested, and the data of adapter 3 is the worst. Only the data of adapter 3 is recorded in the report.

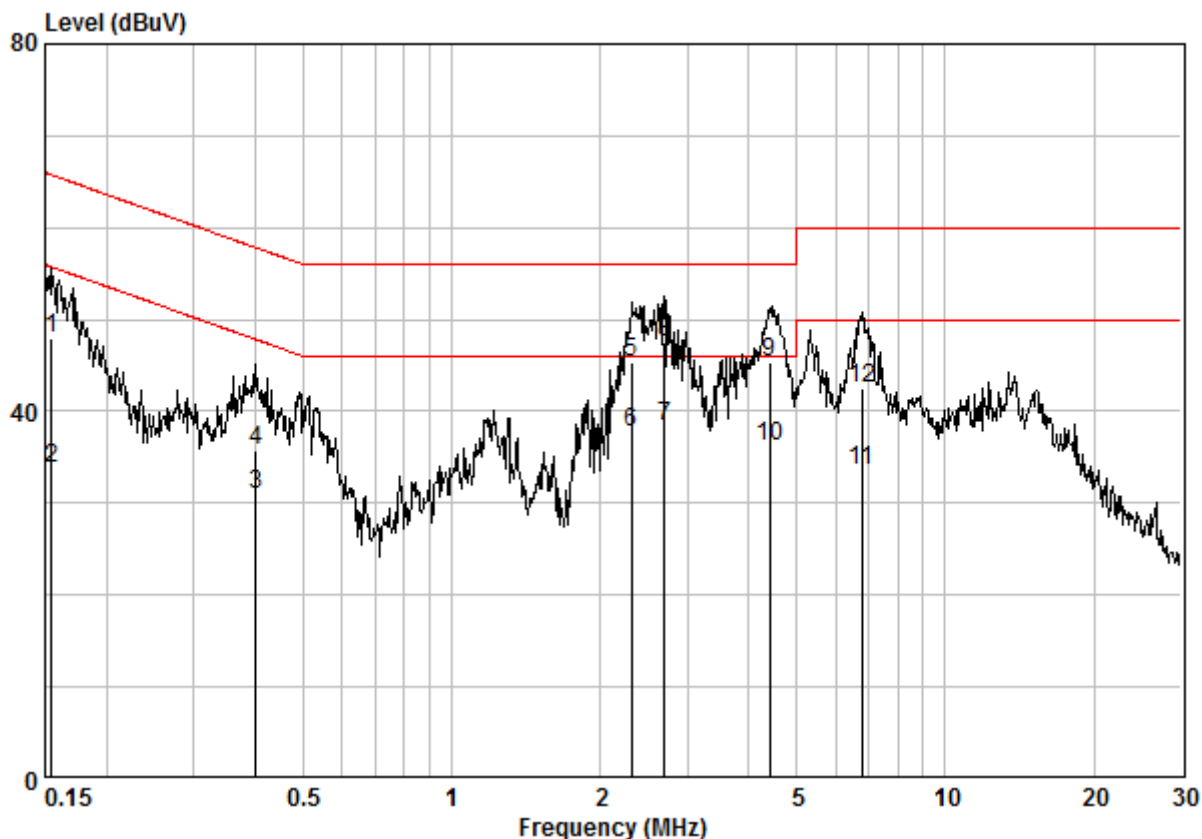
Mode:b; Line:Live Line



Site : Shielding Room
Condition : CE LINE
Job No. : 04534CR
Test Mode : b

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15567	0.02	9.64	39.90	49.56	65.69	-16.14	QP
2	0.15567	0.02	9.64	24.92	34.58	55.69	-21.11	AVERAGE
3	2.321	0.03	9.68	24.38	34.08	46.00	-11.92	AVERAGE
4 @	2.321	0.03	9.68	34.77	44.47	56.00	-11.53	QP
5	2.622	0.03	9.68	31.71	41.42	56.00	-14.58	QP
6	2.622	0.03	9.68	15.97	25.68	46.00	-20.32	AVERAGE
7	4.430	0.02	9.72	19.82	29.57	46.00	-16.43	AVERAGE
8	4.430	0.02	9.72	29.28	39.02	56.00	-16.98	QP
9	6.805	0.07	9.79	25.03	34.89	60.00	-25.11	QP
10	6.805	0.07	9.79	16.78	26.64	50.00	-23.36	AVERAGE
11	13.695	0.15	9.93	13.83	23.92	50.00	-26.08	AVERAGE
12	13.695	0.15	9.93	20.40	30.49	60.00	-29.51	QP

Mode:b; Line:Neutral Line



Site : Shielding Room
 Condition : CE NEUTRAL
 Job No. : 04534CR
 Test Mode : b

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15485	0.02	9.64	38.21	47.87	65.74	-17.87	QP
2	0.15485	0.02	9.64	24.04	33.70	55.74	-22.04	AVERAGE
3	0.40187	0.02	9.63	21.25	30.90	47.81	-16.92	AVERAGE
4	0.40187	0.02	9.63	26.18	35.83	57.81	-21.98	QP
5 @	2.309	0.03	9.66	35.75	45.44	56.00	-10.56	QP
6 @	2.309	0.03	9.66	28.10	37.79	46.00	-8.21	AVERAGE
7 @	2.692	0.03	9.66	28.64	38.33	46.00	-7.67	AVERAGE
8 @	2.692	0.03	9.66	37.78	47.47	56.00	-8.53	QP
9 @	4.407	0.02	9.70	35.71	45.44	56.00	-10.56	QP
10 @	4.407	0.02	9.70	26.45	36.18	46.00	-9.82	AVERAGE
11	6.769	0.07	9.76	23.80	33.63	50.00	-16.37	AVERAGE
12	6.769	0.07	9.76	32.65	42.49	60.00	-17.51	QP

7.2 99% Bandwidth

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

7.2.1 E.U.T. Operation

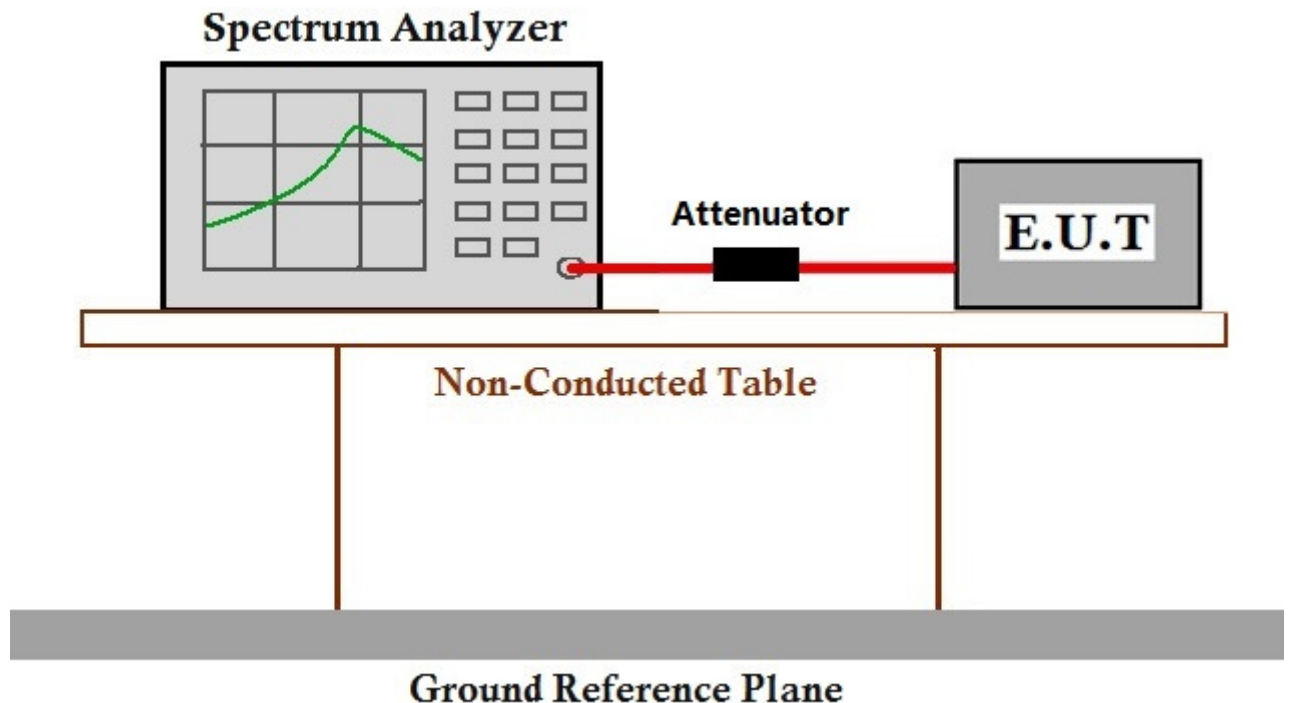
Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

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

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

7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407

7.3 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

7.3.1 E.U.T. Operation

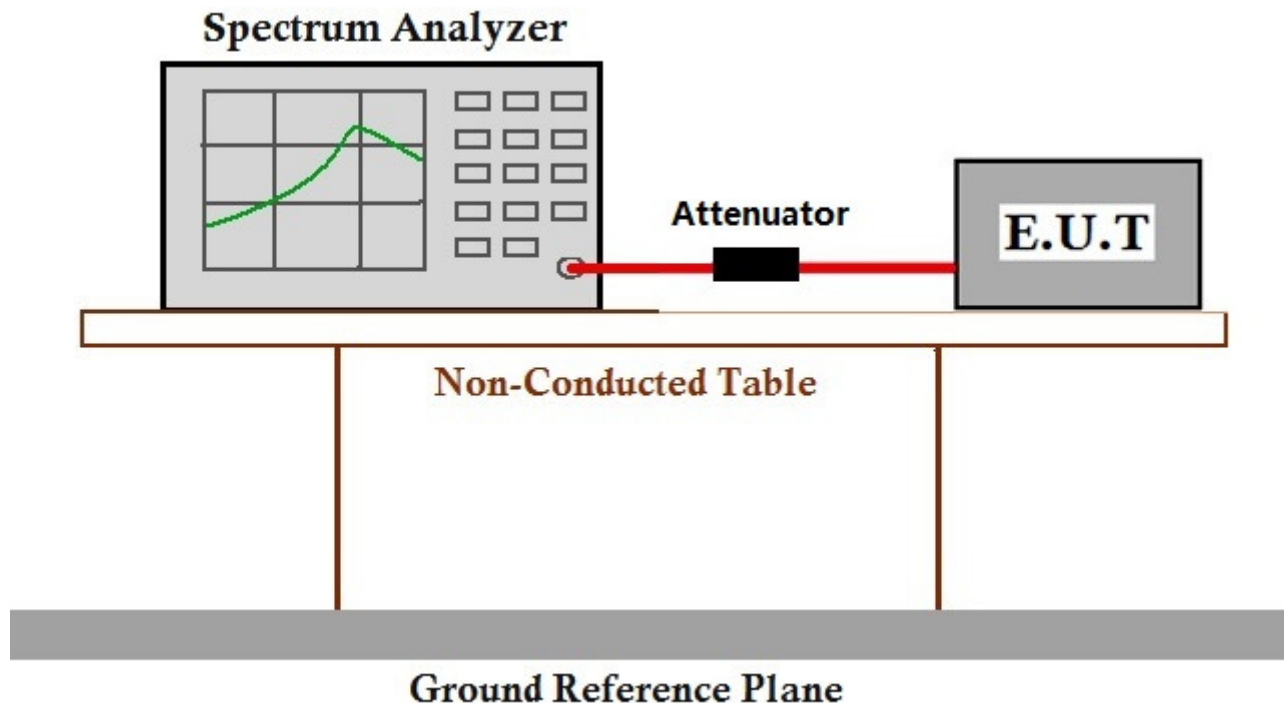
Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

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

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

7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407

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

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

7.4.1 E.U.T. Operation

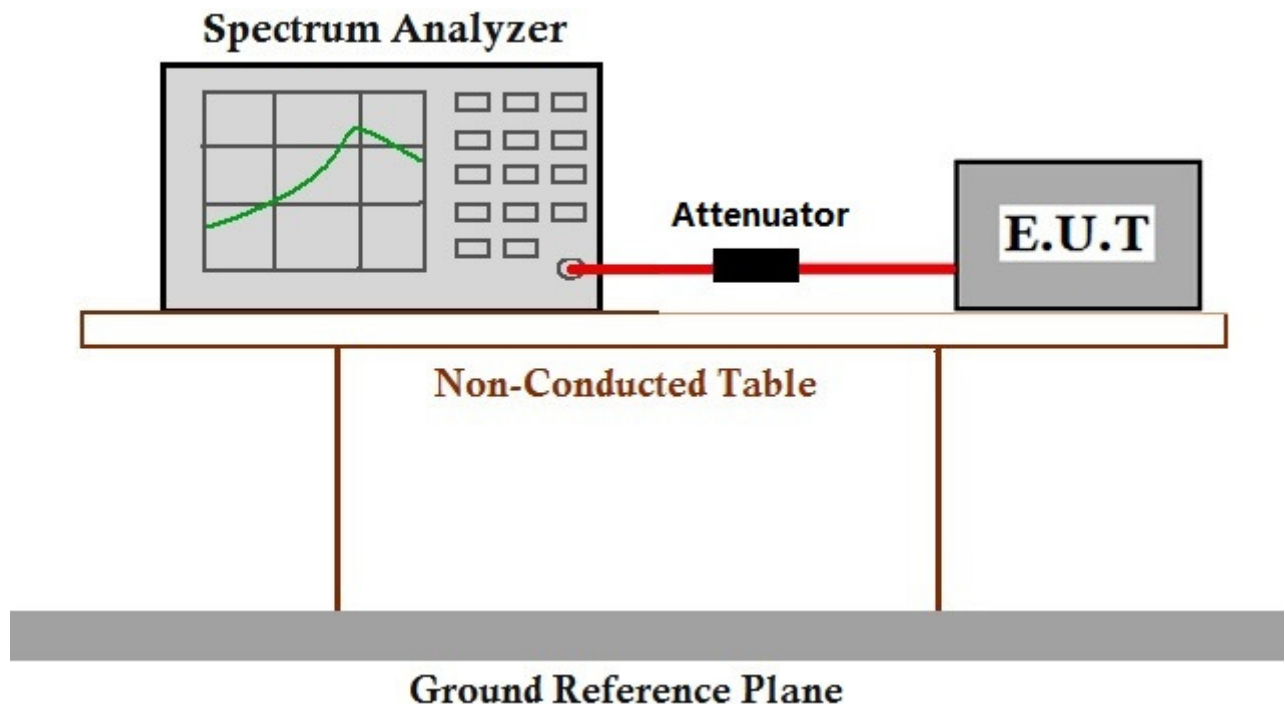
Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

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

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

7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407



7.5 Maximum Conducted output power

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

Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5150-5250	$\leq 1\text{W}(30\text{dBm})$ for master device
	$\leq 250\text{mW}(24\text{dBm})$ for client device
5250-5350	$\leq 250\text{mW}(24\text{dBm})$ for client device or $11\text{dBm}+10\log B^*$
5470-5725	$\leq 250\text{mW}(24\text{dBm})$ for client device or $11\text{dBm}+10\log B^*$
5725-5850	$\leq 1\text{W}(30\text{dBm})$
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.	

7.5.1 E.U.T. Operation

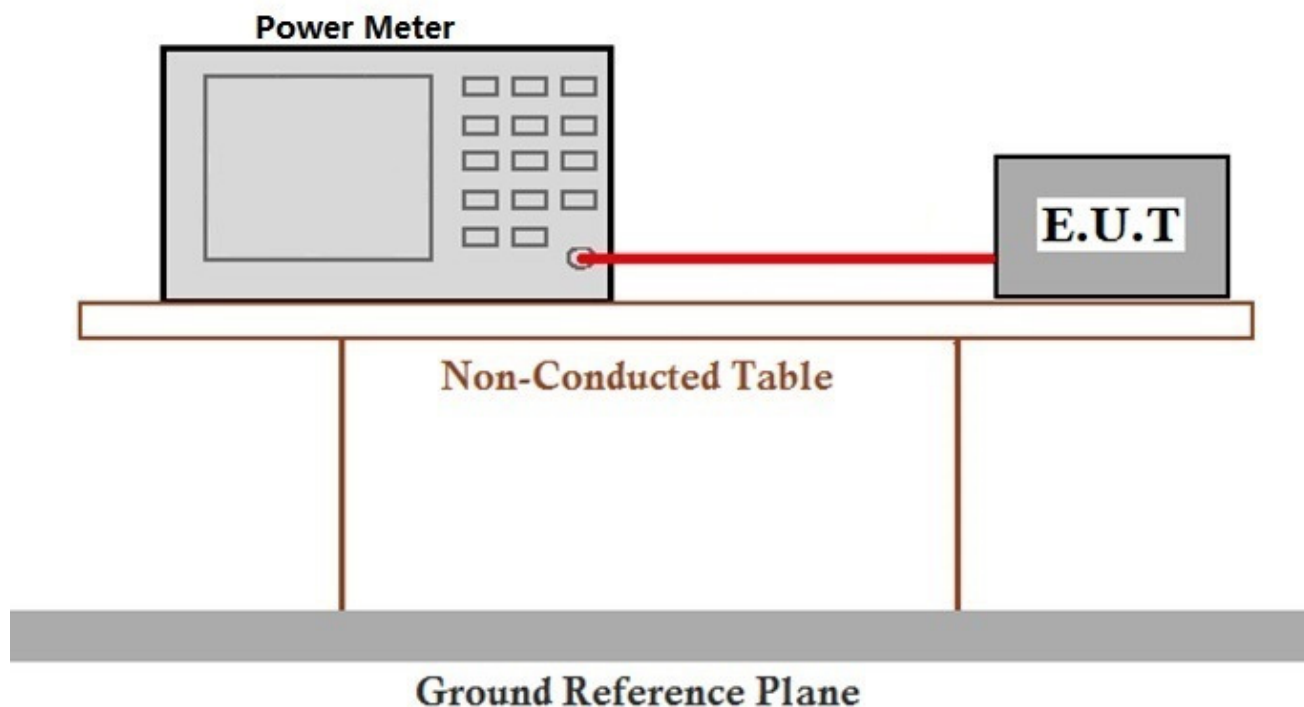
Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

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

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

7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407



7.6 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

Limit:

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

7.6.1 E.U.T. Operation

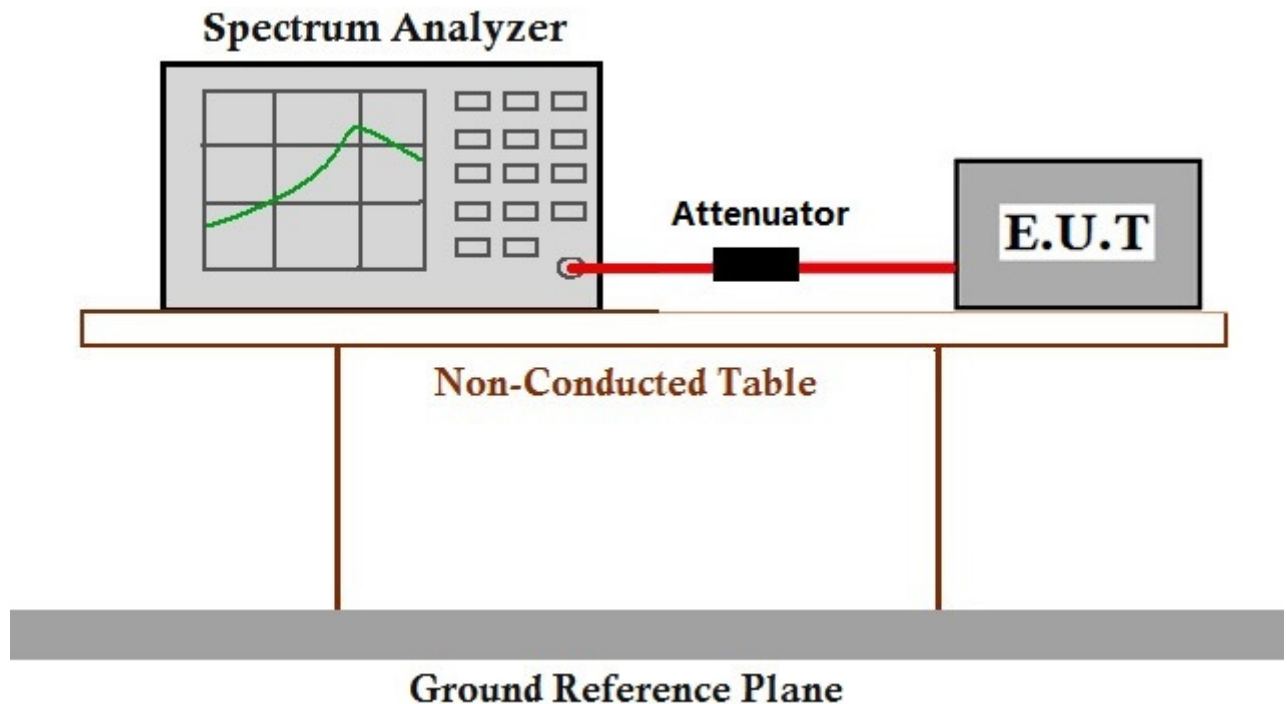
Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

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

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

7.6.2 Test Setup Diagram



7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407



7.7 Radiated Emissions

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

7.7.1 E.U.T. Operation

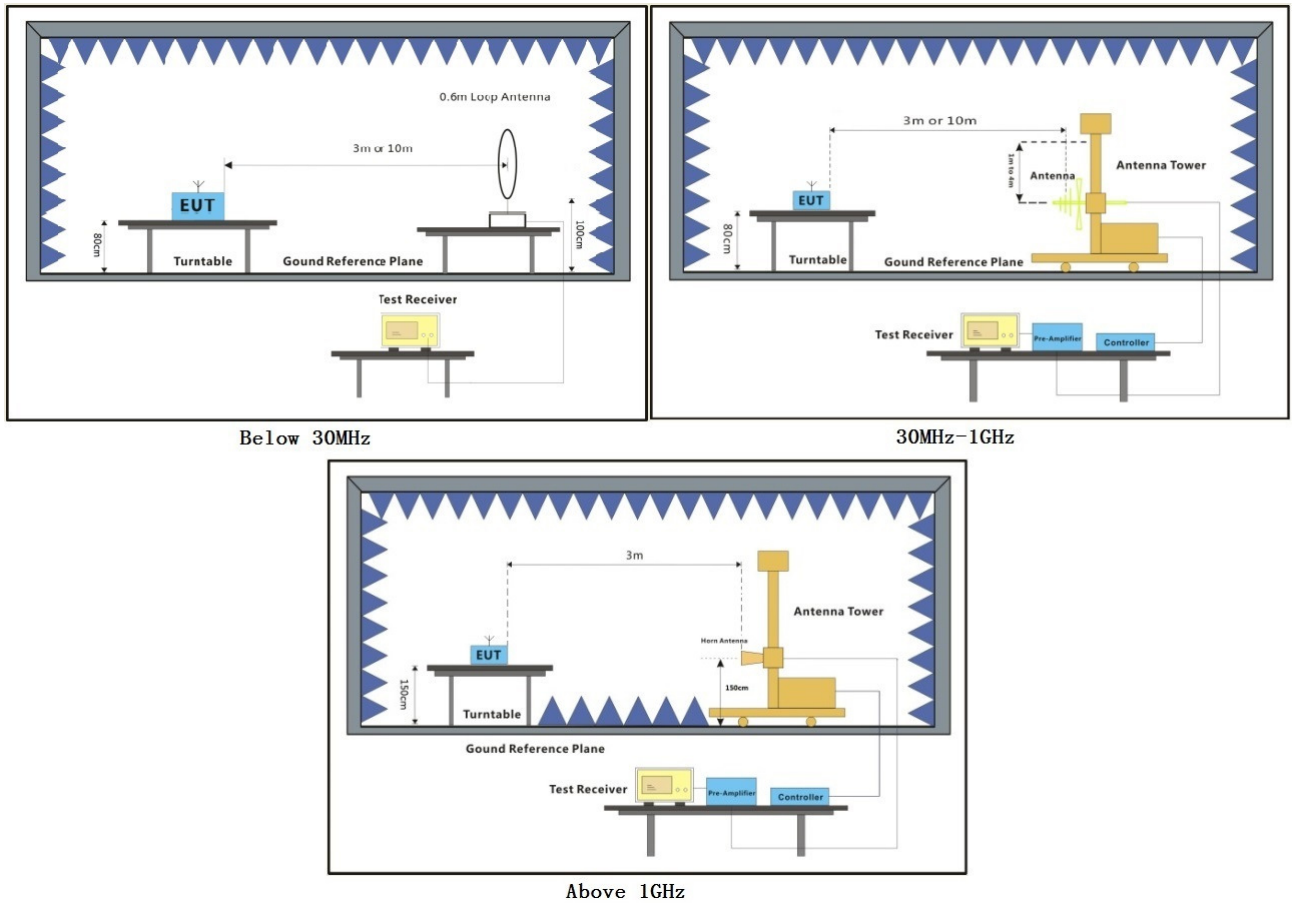
Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1015 mbar

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

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

7.7.2 Test Setup Diagram





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.

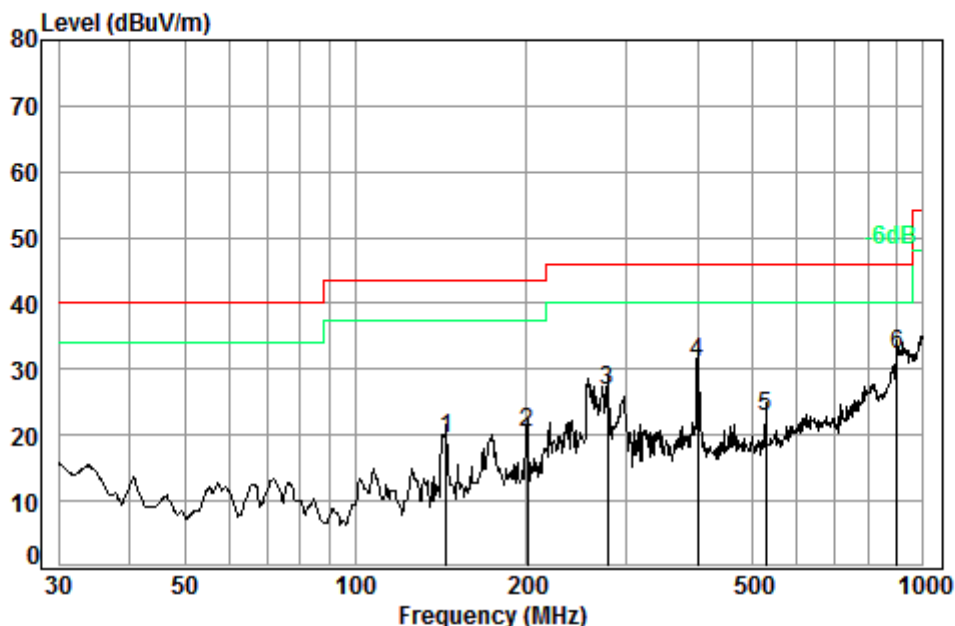
Remark:

1. For 802.11a mode, the test was performed at SISO mode, and only the data of worst case (transmitting with antenna 1) is recorded in the report. For 802.11n and 802.11ac mode, the test was performed at MIMO mode.
2. For below 1GHz, through Pre-scan, found that the 802.11a mode @ 6Mbps rate on the lowest channel is the worst case.
3. Three adapter were tested, and the data of adapter 2 is the worst.
4. Only the data of worst case is recorded in the report.

Below 1GHz:

Remark: For below 1GHz, through Pre-scan, found that the 802.11a mode @ 6Mbps rate on the lowest channel is the worst case, only the data of worst case is recorded in the report.

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



Condition: 3m HORIZONTAL

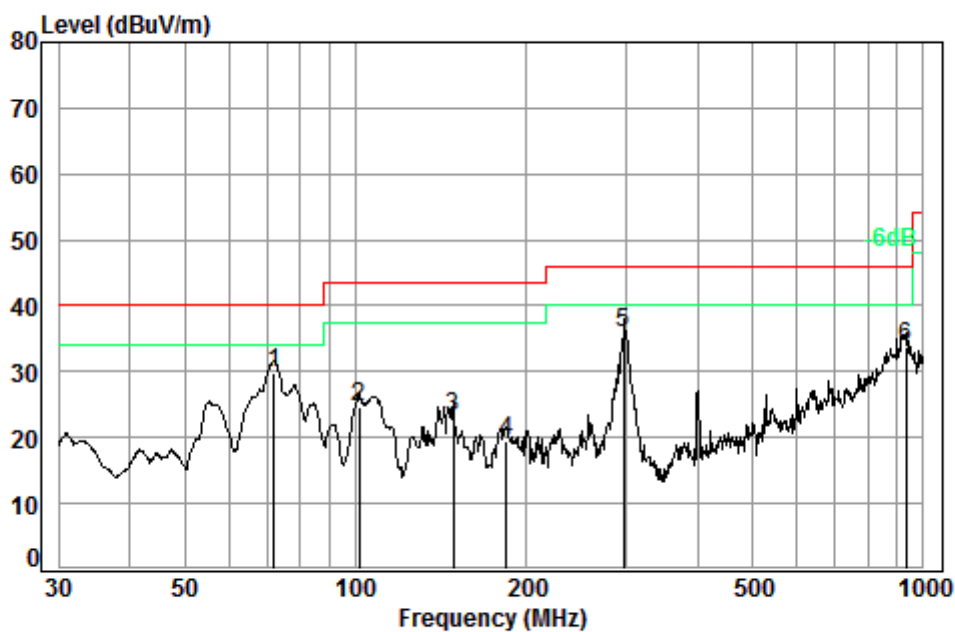
Job No. : 04534CR

Test mode: b

	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	144.33	1.31	8.49	26.94	36.71	19.57	43.50	-23.93
2	200.69	1.40	10.24	26.70	35.49	20.43	43.50	-23.07
3	278.07	1.81	12.93	26.46	38.63	26.91	46.00	-19.09
4	400.43	2.20	16.30	27.13	39.75	31.12	46.00	-14.88
5	528.25	2.63	18.55	27.65	29.28	22.81	46.00	-23.19
6 pp	900.15	3.60	23.20	26.78	32.34	32.36	46.00	-13.64



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



Condition: 3m VERTICAL

Job No. : 04534CR

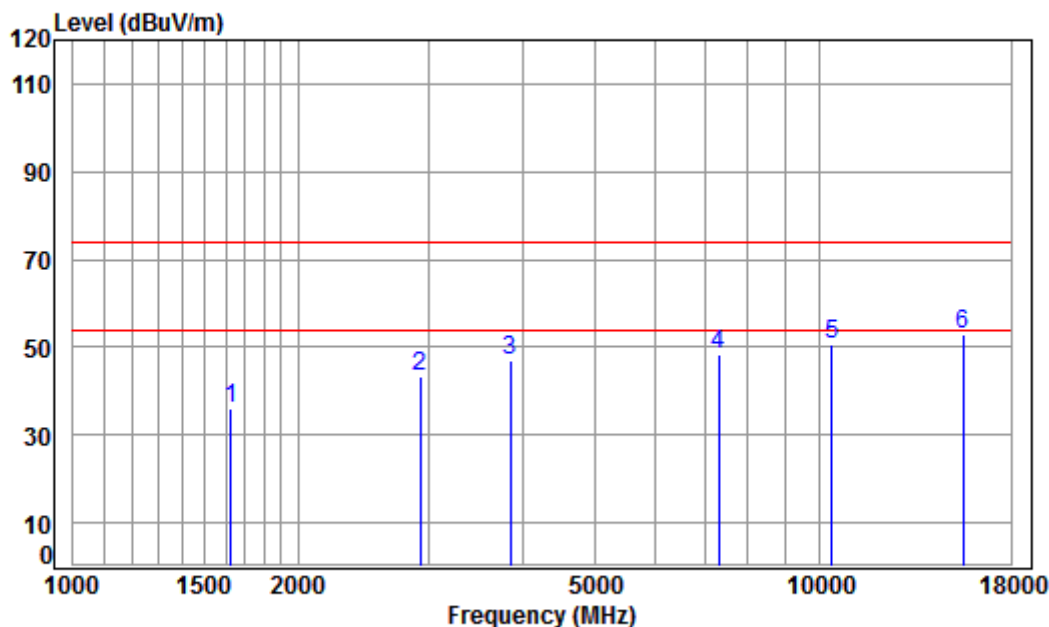
Test mode: b

	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	71.83	0.86	7.05	27.24	49.05	29.72	40.00	-10.28
2	101.64	1.21	9.02	27.19	41.72	24.76	43.50	-18.74
3	148.44	1.31	8.86	26.91	39.91	23.17	43.50	-20.33
4	184.49	1.38	9.99	26.75	34.85	19.47	43.50	-24.03
5 pp	297.22	1.89	13.78	26.41	46.64	35.90	46.00	-10.10
6	932.27	3.63	23.30	26.61	33.47	33.79	46.00	-12.21



Above 1GHz:

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



Condition: 3m HORIZONTAL

Job No: : 04534CR

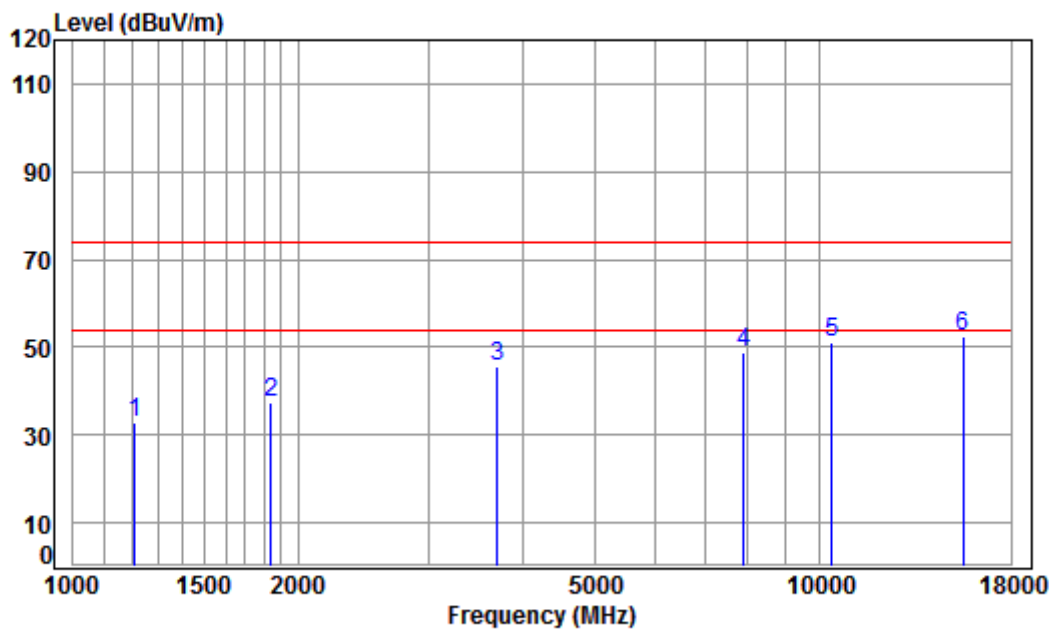
Mode: : 5180 TX RSE

: 5GWIFI-A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1625.121	4.62	26.36	38.04	42.95	35.89	74.00	-38.11	peak
2	2913.740	5.85	31.00	37.91	44.43	43.37	74.00	-30.63	peak
3	3845.537	6.58	33.19	37.98	45.19	46.98	74.00	-27.02	peak
4	7305.122	9.72	36.38	37.03	39.41	48.48	74.00	-25.52	peak
5	10360.000	11.74	37.24	35.08	36.92	50.82	74.00	-23.18	peak
6	15540.000	15.28	41.38	38.31	34.38	52.73	74.00	-21.27	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

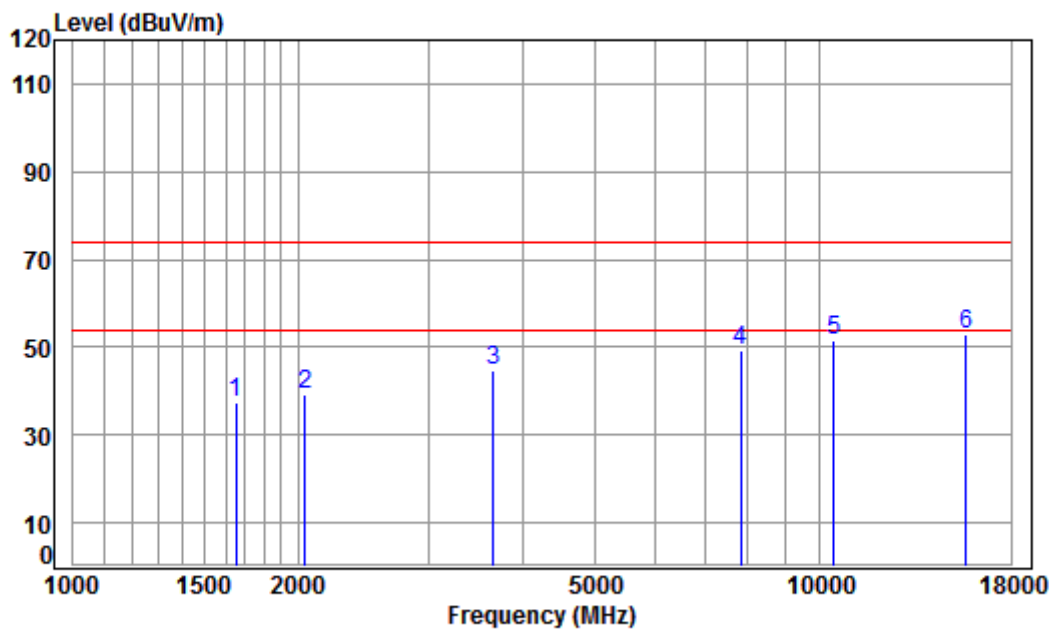
Mode: : 5180 TX RSE

: 5GWIFI-A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1210.174	4.09	24.53	38.08	42.48	33.02	74.00	-40.98	peak
2	1840.189	4.85	27.22	38.02	43.34	37.39	74.00	-36.61	peak
3	3693.033	6.46	32.76	37.97	44.44	45.69	74.00	-28.31	peak
4	7898.049	10.00	36.54	36.49	38.60	48.65	74.00	-25.35	peak
5	10360.000	11.74	37.24	35.08	37.15	51.05	74.00	-22.95	peak
6	15540.000	15.28	41.38	38.31	33.94	52.29	74.00	-21.71	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

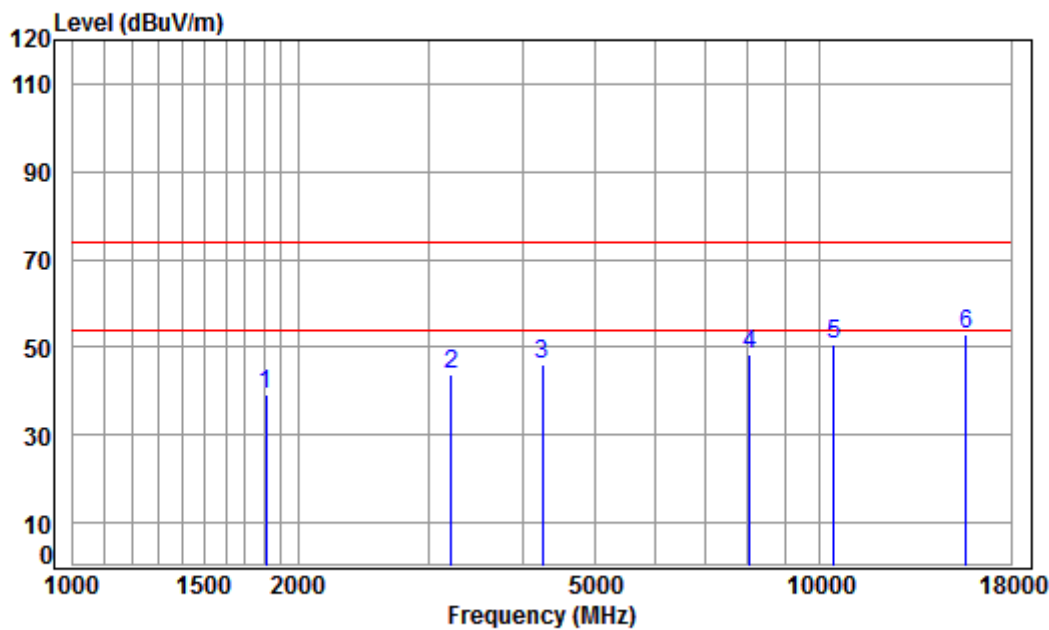
Mode: : 5220 TX RSE

: 5GWIFI-A

	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	1653.550	4.65	26.48	38.03	44.33	37.43	74.00	-36.57	peak
2	2047.895	5.05	27.97	38.00	44.15	39.17	74.00	-34.83	peak
3	3650.582	6.43	32.64	37.97	43.72	44.82	74.00	-29.18	peak
4	7829.860	9.98	36.50	36.55	39.46	49.39	74.00	-24.61	peak
5	10440.000	11.81	37.16	35.12	37.80	51.65	74.00	-22.35	peak
6	15660.000	15.38	41.34	38.17	34.25	52.80	74.00	-21.20	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

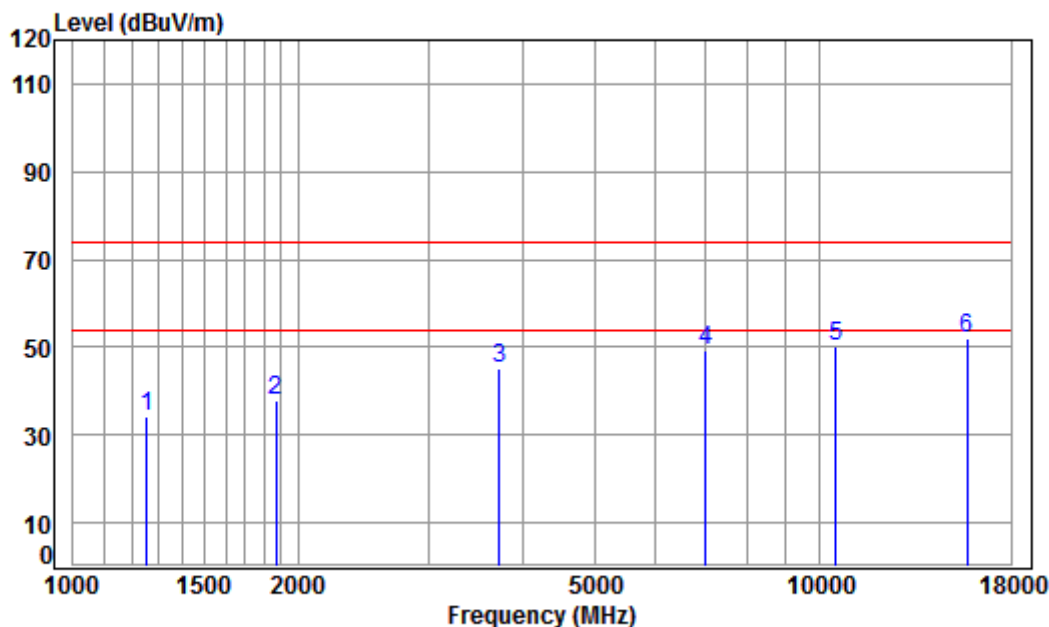
Mode: : 5220 TX RSE

: 5GWIFI-A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1813.786	4.83	27.12	38.02	45.30	39.23	74.00	-34.77	peak
2	3205.345	6.09	31.69	37.92	43.91	43.77	74.00	-30.23	peak
3	4242.641	6.99	33.60	38.12	43.43	45.90	74.00	-28.10	peak
4	8059.475	10.07	36.53	36.34	38.23	48.49	74.00	-25.51	peak
5	10440.000	11.81	37.16	35.12	36.66	50.51	74.00	-23.49	peak
6	15660.000	15.38	41.34	38.17	34.33	52.88	74.00	-21.12	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

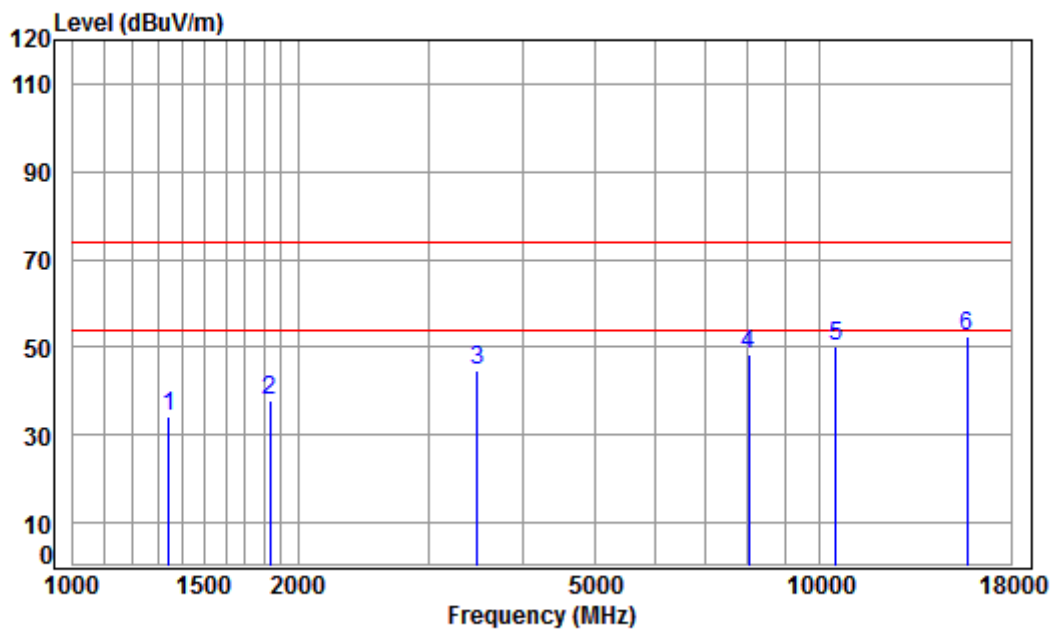
Mode: : 5240 TX RSE

: 5GWIFI-A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	4.16	24.75	38.07	43.32	34.16	74.00	-39.84	peak
2	1872.381	4.89	27.34	38.01	43.57	37.79	74.00	-36.21	peak
3	3725.195	6.49	32.85	37.97	43.82	45.19	74.00	-28.81	peak
4	7035.727	9.54	36.49	37.27	40.30	49.06	74.00	-24.94	peak
5	10480.000	11.84	37.12	35.14	36.41	50.23	74.00	-23.77	peak
6	15720.000	15.42	41.31	38.11	33.45	52.07	74.00	-21.93	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

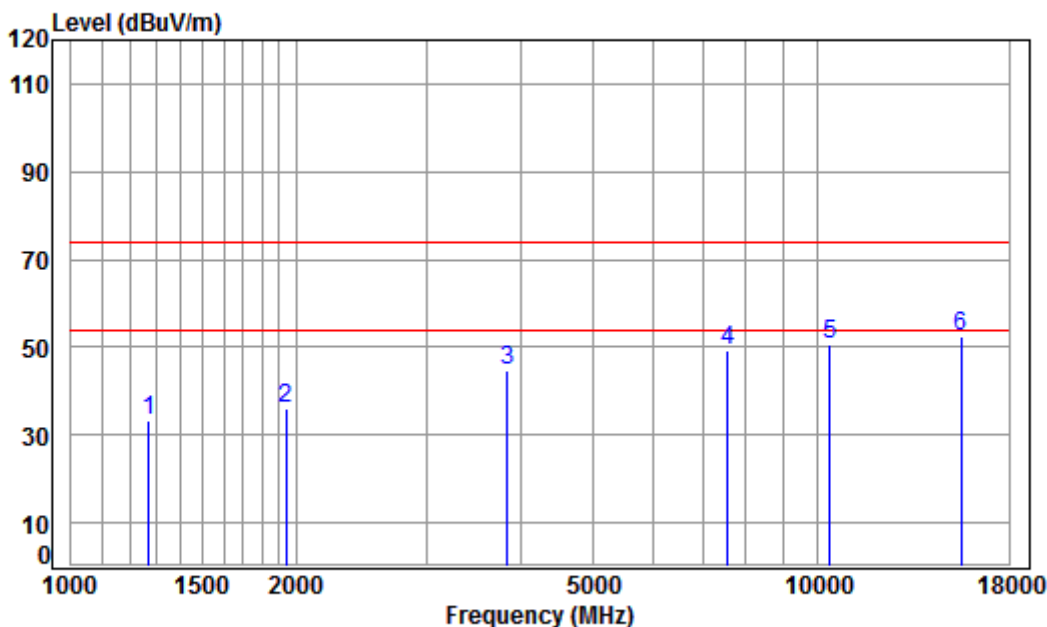
Mode: : 5240 TX RSE

: 5GWIFI-A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1342.882	4.28	25.15	38.07	42.72	34.08	74.00	-39.92	peak
2	1834.878	4.85	27.20	38.02	43.74	37.77	74.00	-36.23	peak
3	3475.541	6.28	32.16	37.95	44.23	44.72	74.00	-29.28	peak
4	8036.214	10.06	36.56	36.36	38.05	48.31	74.00	-25.69	peak
5	10480.000	11.84	37.12	35.14	36.58	50.40	74.00	-23.60	peak
6	15720.000	15.42	41.31	38.11	34.05	52.67	74.00	-21.33	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

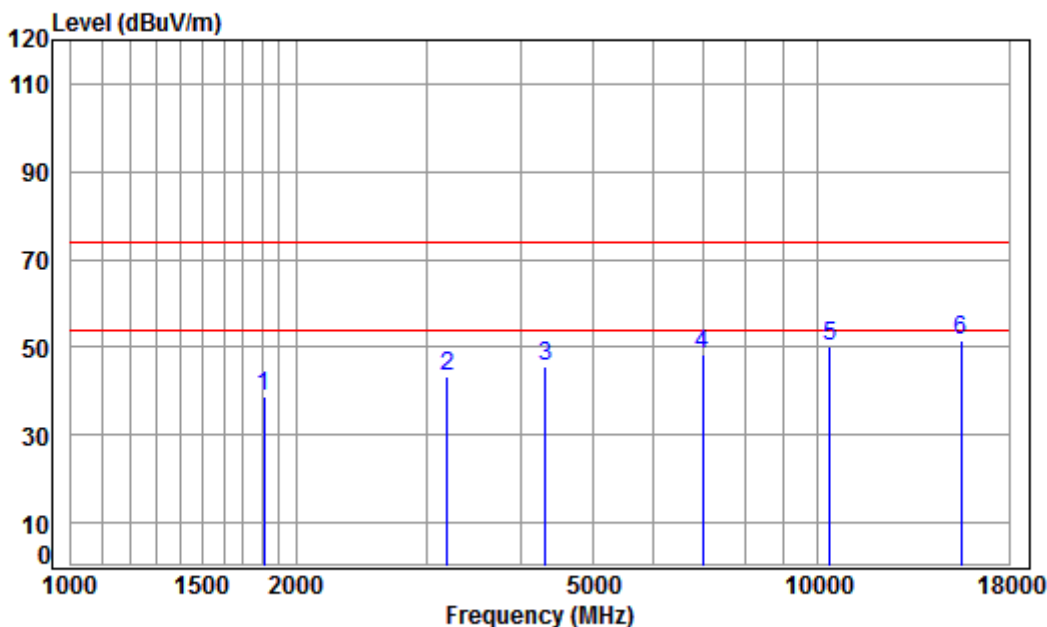
Mode: : 5180 TX RSE

: 5G WIFI-N20

	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	1271.123	4.18	24.82	38.07	42.24	33.17	74.00	-40.83	peak
2	1938.463	4.95	27.58	38.01	41.73	36.25	74.00	-37.75	peak
3	3834.438	6.57	33.16	37.98	42.85	44.60	74.00	-29.40	peak
4	7562.942	9.87	36.34	36.79	39.77	49.19	74.00	-24.81	peak
5	10360.000	11.74	37.24	35.08	36.66	50.56	74.00	-23.44	peak
6	pp15540.000	15.28	41.38	38.31	33.95	52.30	74.00	-21.70	peak



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



Condition: 3m VERTICAL

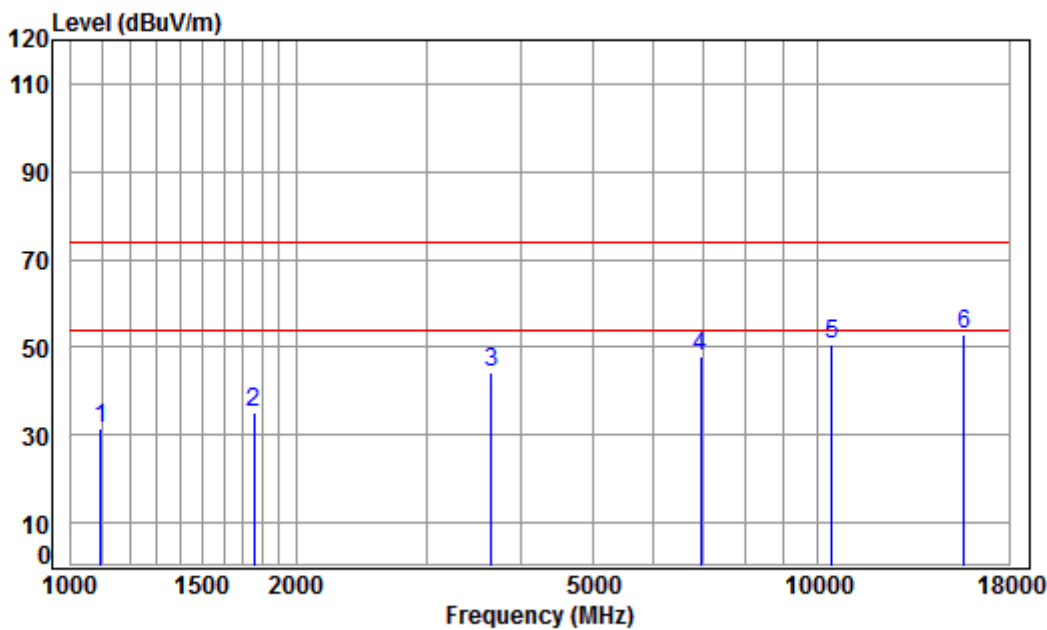
Job No: : 04534CR

Mode: : 5180 TX RSE

: 5G WIFI-N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1813.786	4.83	27.12	38.02	44.83	38.76	74.00	-35.24	peak
2	3186.869	6.08	31.65	37.92	43.67	43.48	74.00	-30.52	peak
3	4316.859	7.08	33.60	38.16	43.27	45.79	74.00	-28.21	peak
4	7015.420	9.52	36.49	37.29	39.84	48.56	74.00	-25.44	peak
5	10360.000	11.74	37.24	35.08	36.12	50.02	74.00	-23.98	peak
6	15540.000	15.28	41.38	38.31	33.20	51.55	74.00	-22.45	peak

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



Condition: 3m HORIZONTAL

Job No: : 04534CR

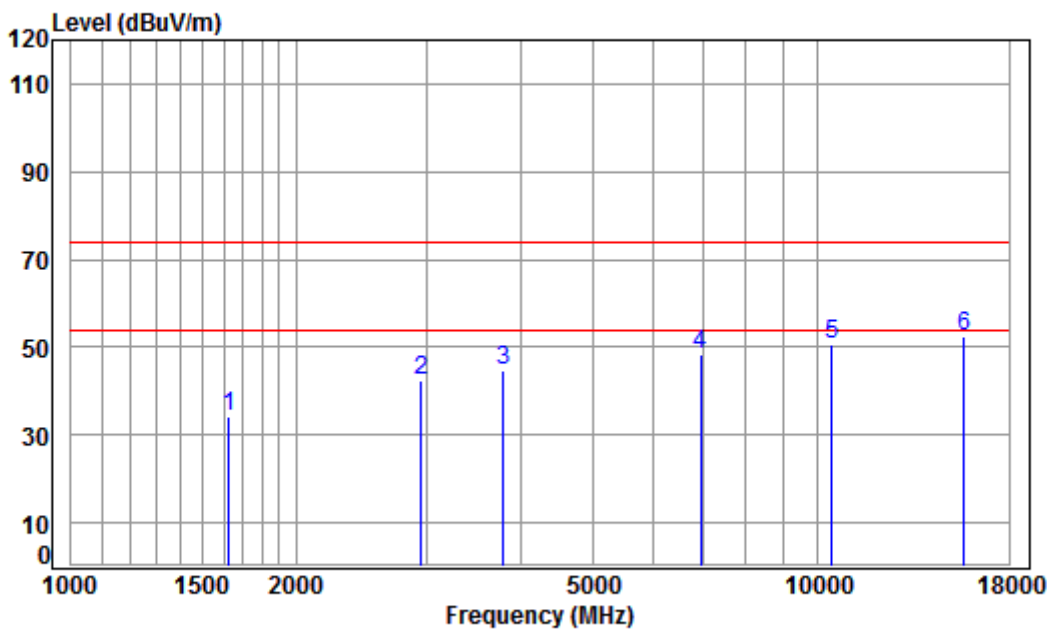
Mode: : 5220 TX RSE

: 5G WIFI-N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1096.904	3.92	23.95	38.09	41.88	31.66	74.00	-42.34	peak
2	1757.026	4.77	26.90	38.02	41.62	35.27	74.00	-38.73	peak
3	3650.582	6.43	32.64	37.97	43.37	44.47	74.00	-29.53	peak
4	6954.852	9.47	36.38	37.35	39.51	48.01	74.00	-25.99	Peak
5	10440.000	11.81	37.16	35.12	37.02	50.87	74.00	-23.13	peak
6	15660.000	15.38	41.34	38.17	34.40	52.95	74.00	-21.05	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

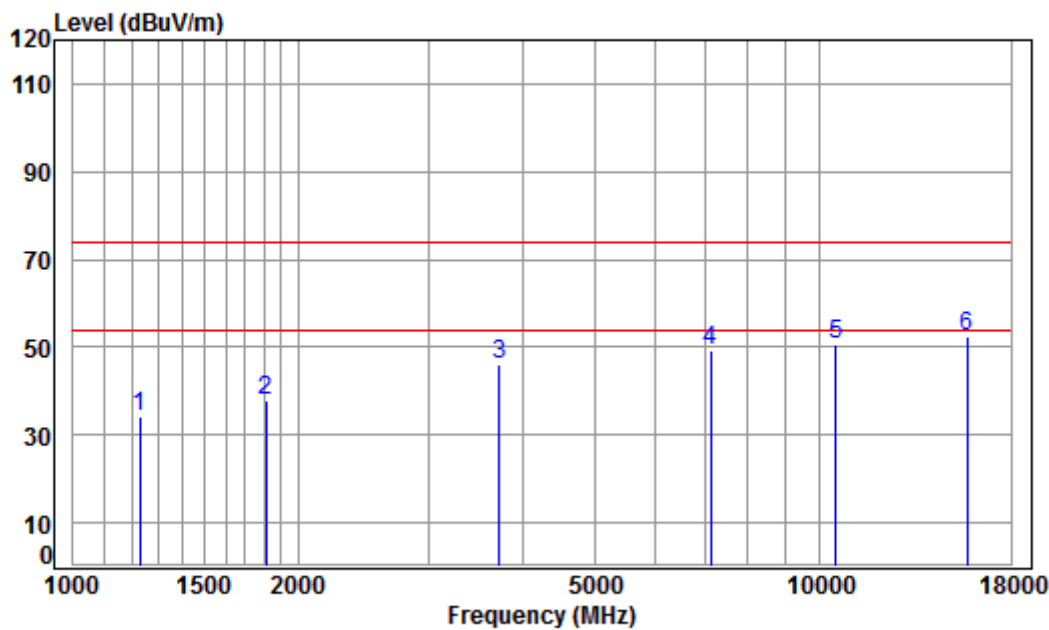
Mode: : 5220 TX RSE

: 5G WIFI-N20

	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	1625.121	4.62	26.36	38.04	41.20	34.14	74.00	-39.86	peak
2	2947.623	5.88	31.12	37.91	43.38	42.47	74.00	-31.53	peak
3	3790.361	6.54	33.04	37.98	43.16	44.76	74.00	-29.24	peak
4	6954.852	9.47	36.38	37.35	39.85	48.35	74.00	-25.65	peak
5	10440.000	11.81	37.16	35.12	36.60	50.45	74.00	-23.55	peak
6	15660.000	15.38	41.34	38.17	33.97	52.52	74.00	-21.48	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

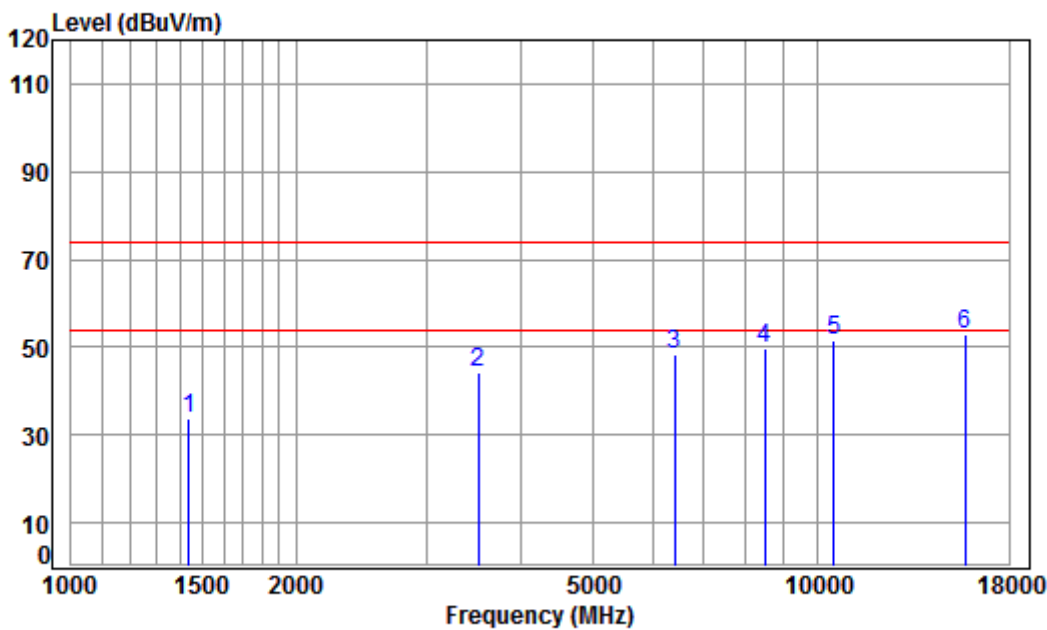
Mode: : 5240 TX RSE

: 5G WIFI-N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.791	4.12	24.61	38.08	43.65	34.30	74.00	-39.70	peak
2	1813.786	4.83	27.12	38.02	43.82	37.75	74.00	-36.25	peak
3	3725.195	6.49	32.85	37.97	44.54	45.91	74.00	-28.09	peak
4	7138.144	9.61	36.44	37.18	40.56	49.43	74.00	-24.57	peak
5	10480.000	11.84	37.12	35.14	37.05	50.87	74.00	-23.13	peak
6	15720.000	15.42	41.31	38.11	33.98	52.60	74.00	-21.40	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

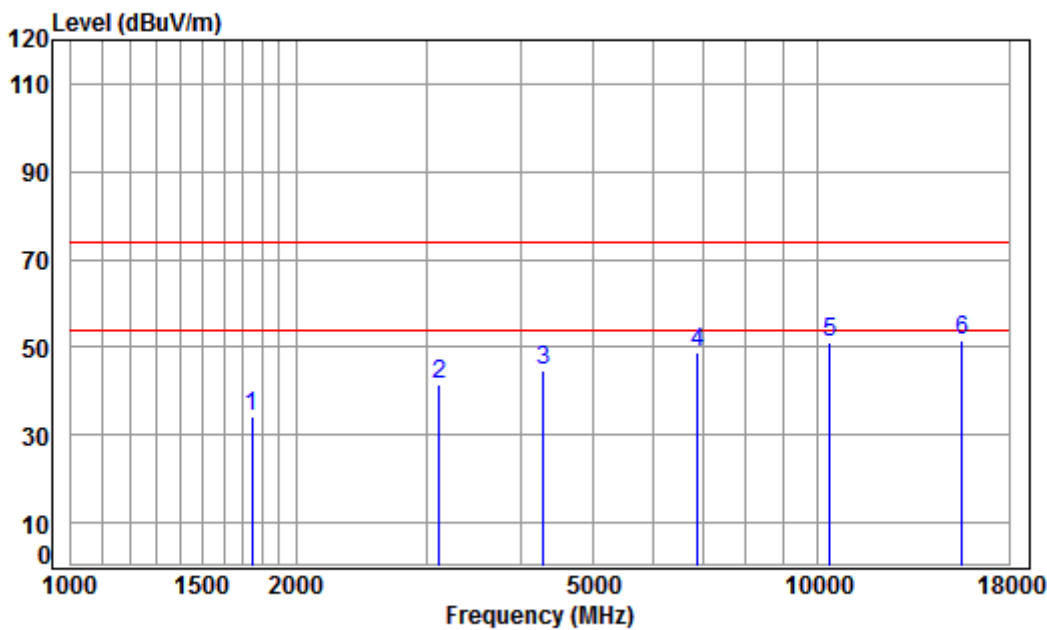
Mode: : 5240 TX RSE

: 5G WIFI-N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1439.343	4.40	25.56	38.06	41.64	33.54	74.00	-40.46	peak
2	3505.809	6.30	32.22	37.95	43.52	44.09	74.00	-29.91	peak
3	6432.732	9.02	35.05	37.87	41.96	48.16	74.00	-25.84	peak
4	8489.882	10.30	36.01	35.91	39.36	49.76	74.00	-24.24	peak
5	10480.000	11.84	37.12	35.14	37.68	51.50	74.00	-22.50	peak
6	15720.000	15.42	41.31	38.11	34.35	52.97	74.00	-21.03	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

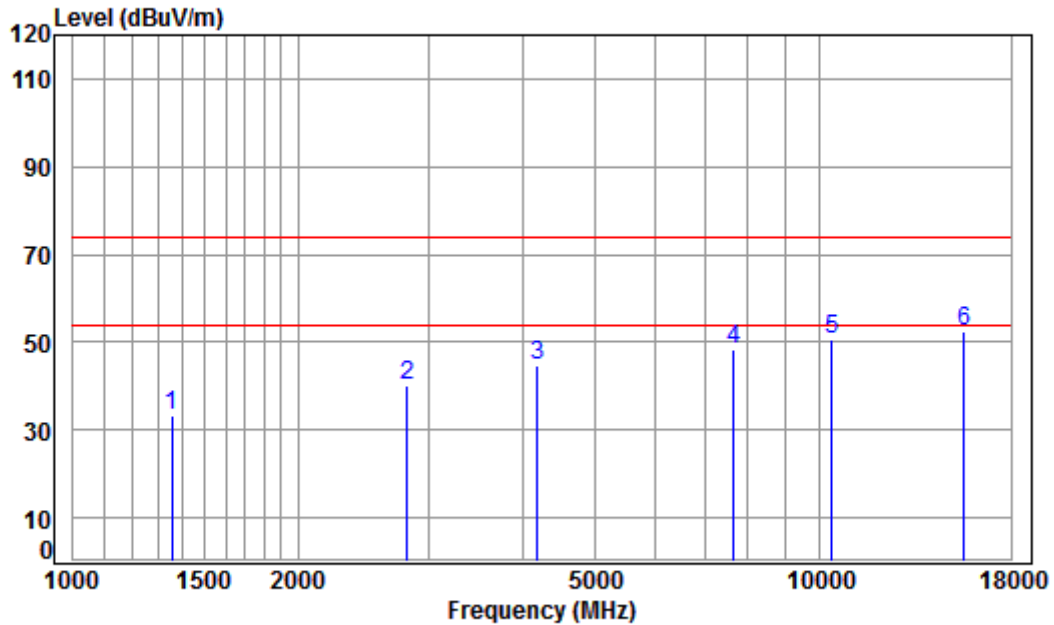
Mode: : 5190 TX RSE

: 5G WIFI-N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1746.898	4.76	26.86	38.03	40.56	34.15	74.00	-39.85	peak
2	3114.025	6.02	31.52	37.91	42.08	41.71	74.00	-32.29	peak
3	4291.977	7.05	33.60	38.15	42.20	44.70	74.00	-29.30	peak
4	6894.806	9.42	36.21	37.41	40.55	48.77	74.00	-25.23	peak
5	10380.000	11.76	37.22	35.09	37.05	50.94	74.00	-23.06	peak
6	pp15570.000	15.31	41.37	38.27	33.25	51.66	74.00	-22.34	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

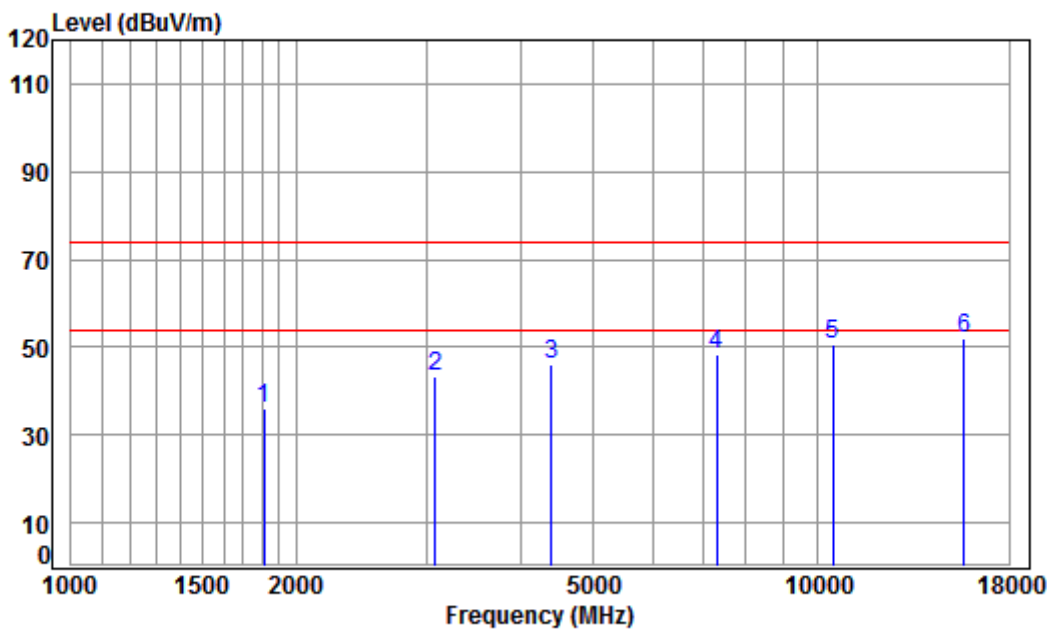
Mode: : 5190 TX RSE

: 5G WIFI-N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1354.577	4.29	25.20	38.06	41.68	33.11	74.00	-40.89	peak
2	2798.189	5.74	30.57	37.92	41.59	39.98	74.00	-34.02	peak
3	4181.768	6.92	33.60	38.09	42.42	44.85	74.00	-29.15	peak
4	7650.888	9.91	36.39	36.71	38.66	48.25	74.00	-25.75	peak
5	10380.000	11.76	37.22	35.09	36.61	50.50	74.00	-23.50	peak
6	pp15570.000	15.31	41.37	38.27	33.98	52.39	74.00	-21.61	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

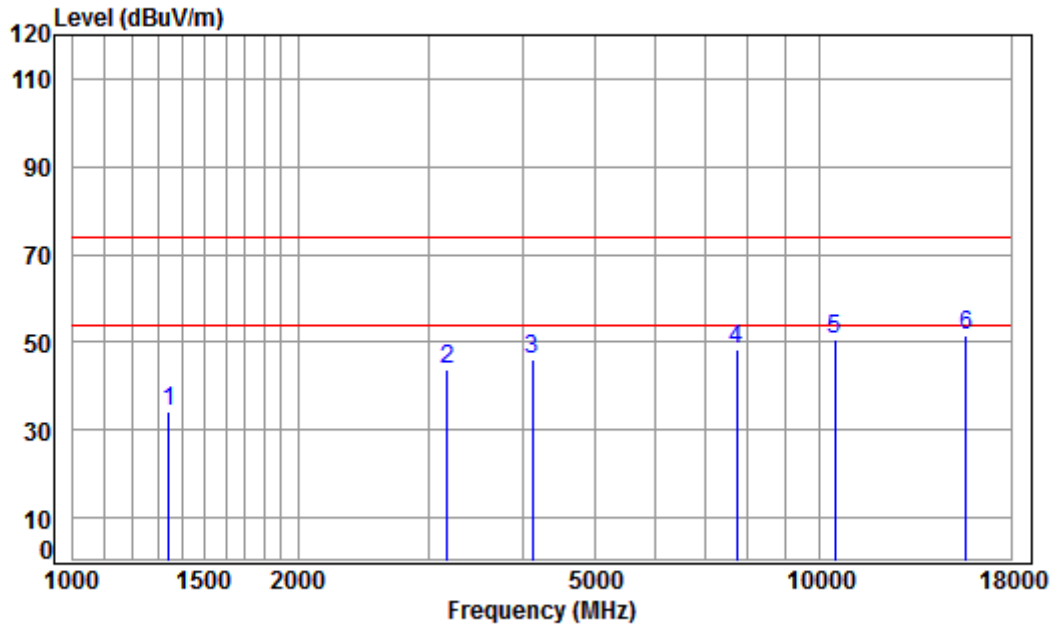
Mode: : 5230 TX RSE

: 5G WIFI-N40

	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	1813.786	4.83	27.12	38.02	42.25	36.18	74.00	-37.82	peak
2	3069.345	5.98	31.43	37.91	43.81	43.31	74.00	-30.69	peak
3	4392.376	7.16	33.60	38.20	43.58	46.14	74.00	-27.86	peak
4	7305.122	9.72	36.38	37.03	39.13	48.20	74.00	-25.80	peak
5	10460.000	11.83	37.14	35.13	36.62	50.46	74.00	-23.54	peak
6	15690.000	15.40	41.32	38.14	33.63	52.21	74.00	-21.79	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

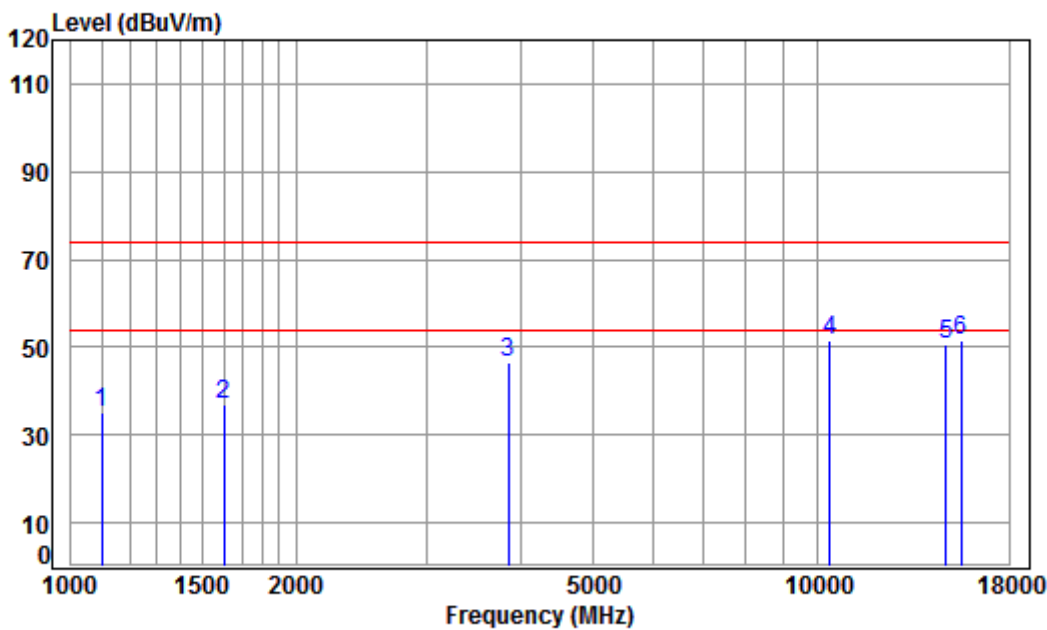
Mode: : 5230 TX RSE

: 5G WIFI-N40

	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	1342.882	4.28	25.15	38.07	42.86	34.22	74.00	-39.78	peak
2	3168.500	6.06	31.62	37.92	43.84	43.60	74.00	-30.40	peak
3	4121.768	6.85	33.60	38.06	43.62	46.01	74.00	-27.99	peak
4	7739.857	9.94	36.45	36.63	38.63	48.39	74.00	-25.61	peak
5	10460.000	11.83	37.14	35.13	36.63	50.47	74.00	-23.53	peak
6	pp15690.000	15.40	41.32	38.14	32.79	51.37	74.00	-22.63	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

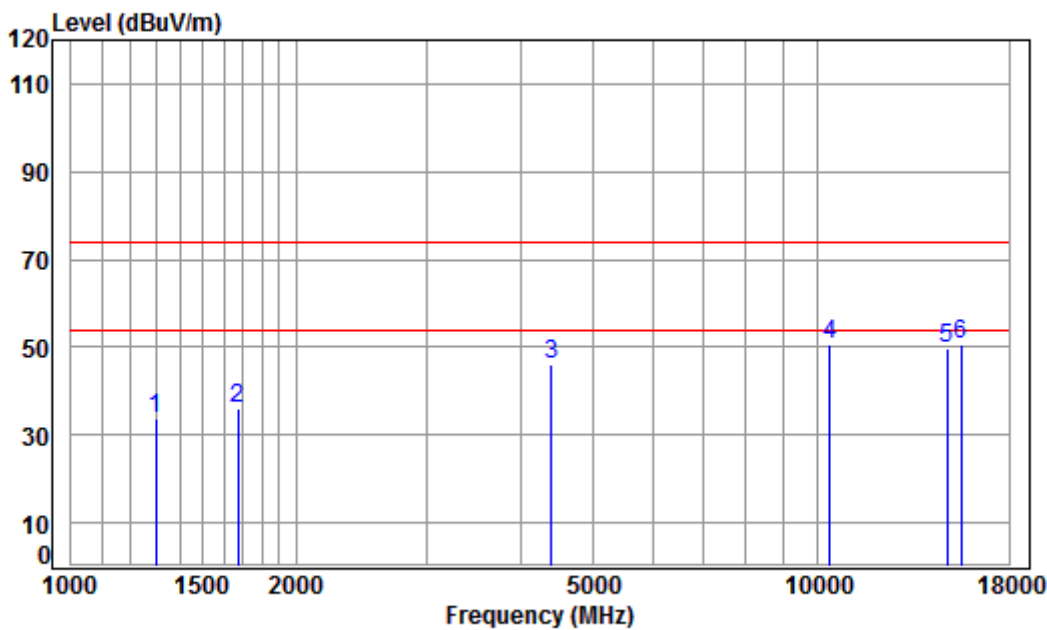
Mode: : 5180 TX RSE

: 5G WIFI-AC20

	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	1100.079	3.93	23.96	38.09	45.38	35.18	74.00	-38.82	peak
2	1601.804	4.59	26.26	38.04	44.25	37.06	74.00	-36.94	peak
3	3845.537	6.58	33.19	37.98	44.54	46.33	74.00	-27.67	peak
4	10360.000	11.74	37.24	35.08	37.45	51.35	74.00	-22.65	peak
5	14830.960	14.81	41.00	38.92	33.54	50.43	74.00	-23.57	peak
6	pp15540.000	15.28	41.38	38.31	33.32	51.67	74.00	-22.33	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

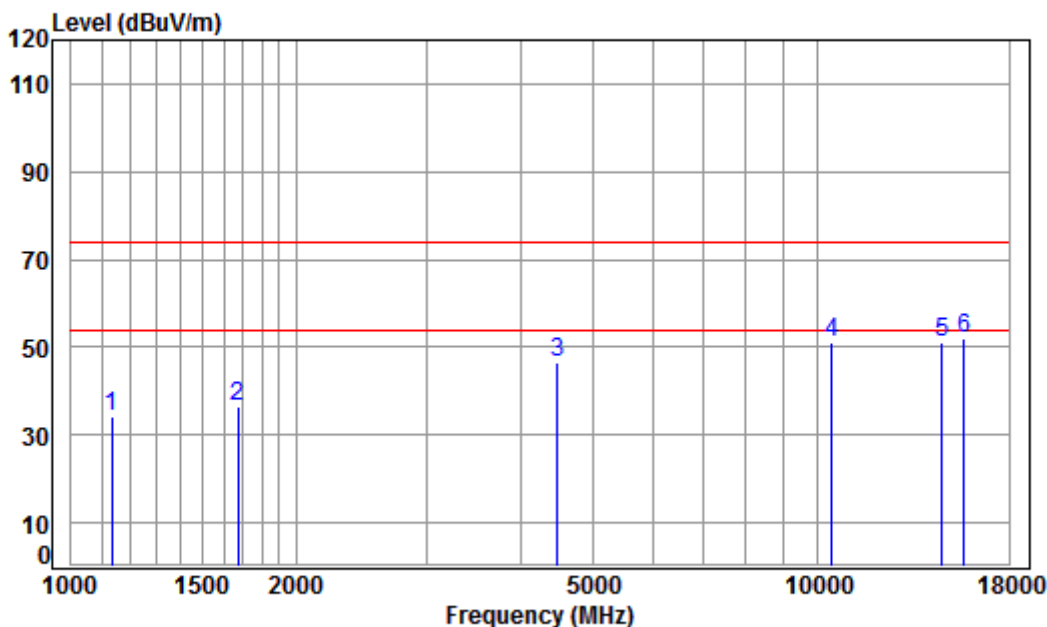
Mode: : 5180 TX RSE

: 5G WIFI-AC20

	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	1300.858	4.22	24.96	38.07	42.73	33.84	74.00	-40.16	peak
2	1672.779	4.67	26.56	38.03	42.85	36.05	74.00	-37.95	peak
3	4392.376	7.16	33.60	38.20	43.70	46.26	74.00	-27.74	peak
4	pp10360.000	11.74	37.24	35.08	36.79	50.69	74.00	-23.31	peak
5	14873.890	14.82	41.08	38.91	32.79	49.78	74.00	-24.22	peak
6	15540.000	15.28	41.38	38.31	32.24	50.59	74.00	-23.41	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

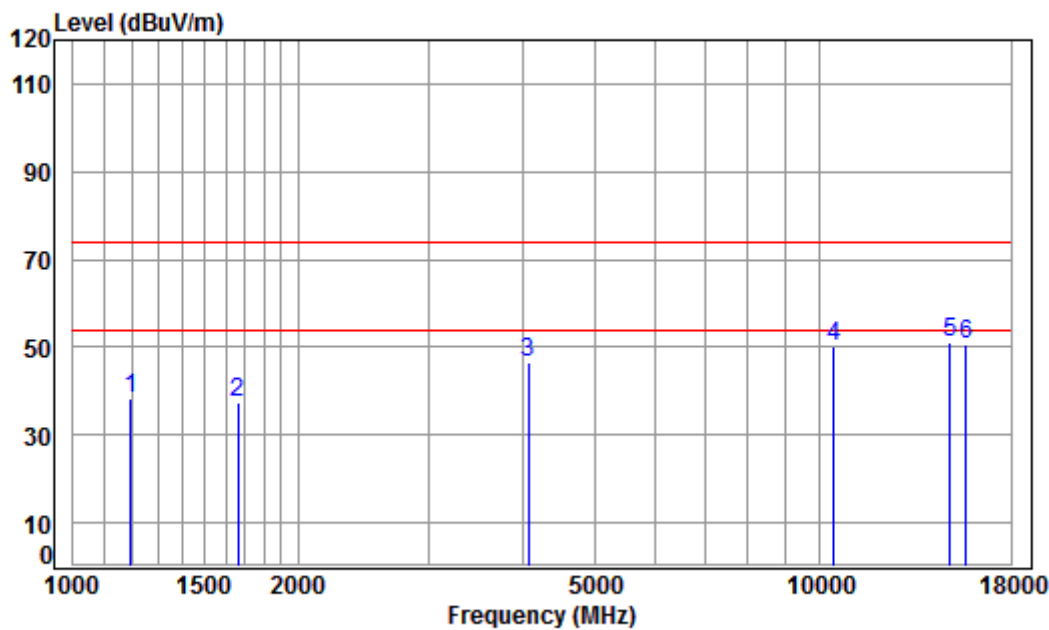
Mode: : 5220 TX RSE

: 5G WIFI-AC20

	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	1135.617	3.98	24.15	38.09	44.10	34.14	74.00	-39.86	peak
2	1672.779	4.67	26.56	38.03	43.32	36.52	74.00	-37.48	peak
3	4482.150	7.26	33.60	38.24	43.78	46.40	74.00	-27.60	peak
4	10440.000	11.81	37.16	35.12	37.13	50.98	74.00	-23.02	peak
5	14660.480	14.76	40.69	38.93	34.53	51.05	74.00	-22.95	peak
6	pp15660.000	15.38	41.34	38.17	33.68	52.23	74.00	-21.77	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

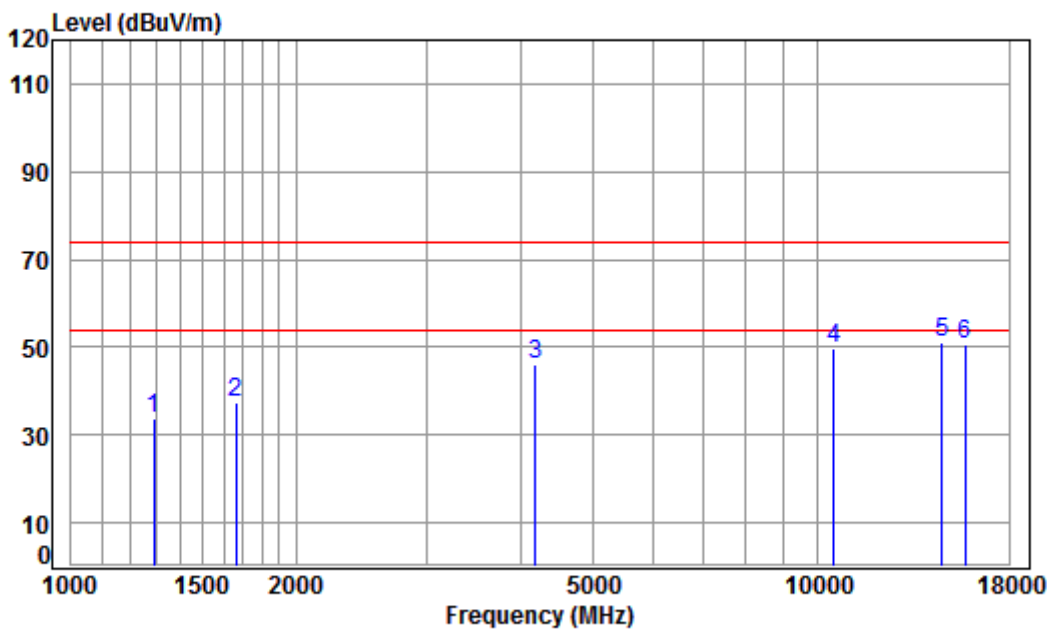
Mode: : 5220 TX RSE

: 5G WIFI-AC20

	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	1196.264	4.07	24.46	38.08	47.89	38.34	74.00	-35.66	peak
2	1663.137	4.66	26.52	38.03	44.14	37.29	74.00	-36.71	peak
3	4074.388	6.79	33.60	38.04	44.17	46.52	74.00	-27.48	peak
4	10440.000	11.81	37.16	35.12	36.13	49.98	74.00	-24.02	peak
5	pp14916.940	14.83	41.15	38.91	34.08	51.15	74.00	-22.85	peak
6	15660.000	15.38	41.34	38.17	32.21	50.76	74.00	-23.24	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

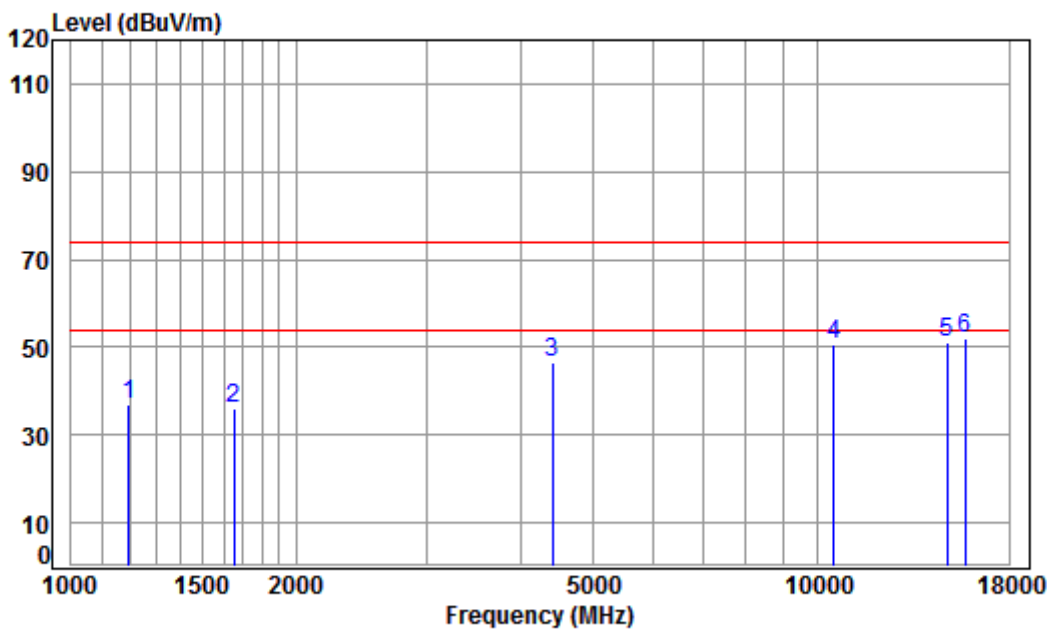
Mode: : 5240 TX RSE

: 5G WIFI-AC20

	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	1289.627	4.21	24.91	38.07	42.77	33.82	74.00	-40.18	peak
2	1663.137	4.66	26.52	38.03	44.05	37.20	74.00	-36.80	peak
3	4181.768	6.92	33.60	38.09	43.70	46.13	74.00	-27.87	peak
4	10480.000	11.84	37.12	35.14	36.03	49.85	74.00	-24.15	peak
5	14660.480	14.76	40.69	38.93	34.63	51.15	74.00	-22.85	peak
6	15720.000	15.42	41.31	38.11	32.14	50.76	74.00	-23.24	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

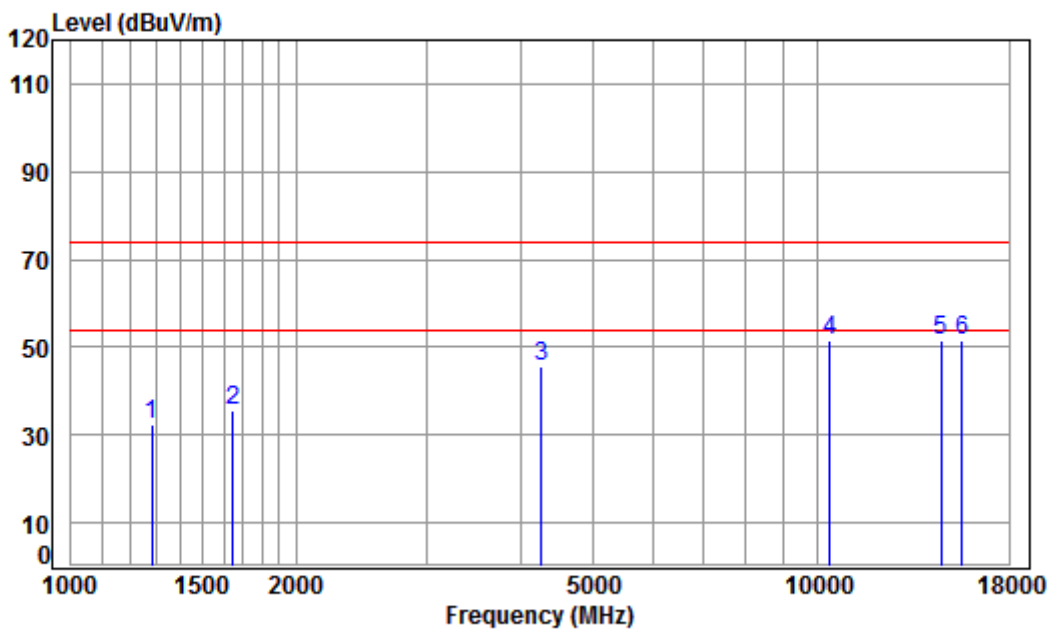
Mode: : 5240 TX RSE

: 5G WIFI-AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1196.264	4.07	24.46	38.08	46.63	37.08	74.00	-36.92 peak
2	1653.550	4.65	26.48	38.03	43.01	36.11	74.00	-37.89 peak
3	4405.090	7.18	33.60	38.20	43.88	46.46	74.00	-27.54 peak
4	10480.000	11.84	37.12	35.14	36.71	50.53	74.00	-23.47 peak
5	14873.890	14.82	41.08	38.91	34.06	51.05	74.00	-22.95 peak
6	pp15720.000	15.42	41.31	38.11	33.17	51.79	74.00	-22.21 peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

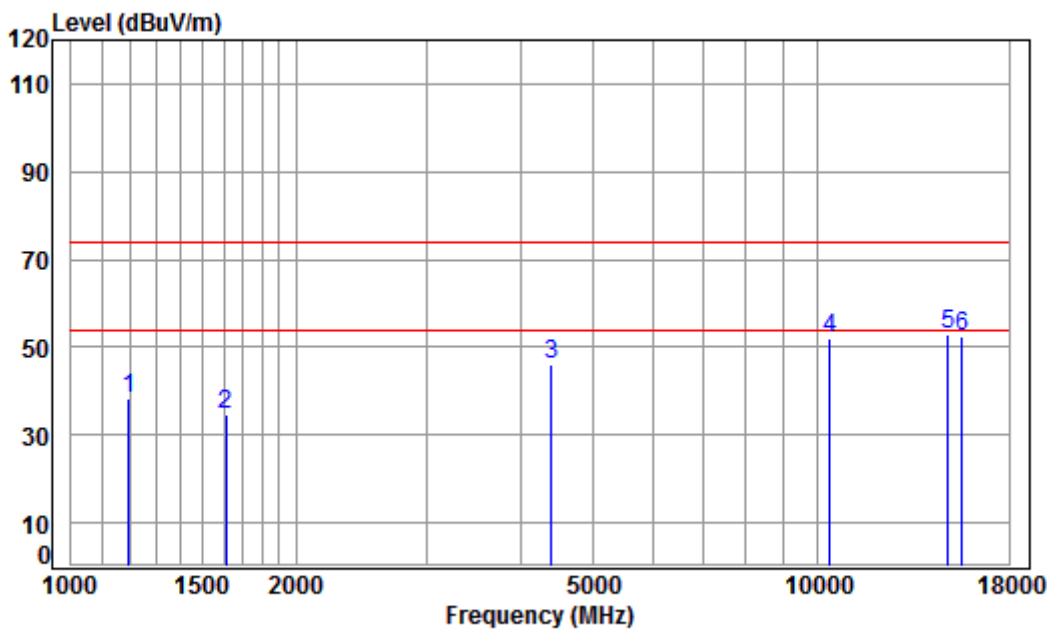
Mode: : 5190 TX RSE

: 5G WIFI-AC40

	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	1282.193	4.20	24.87	38.07	41.52	32.52	74.00	-41.48	peak
2	1648.778	4.65	26.46	38.04	42.33	35.40	74.00	-38.60	peak
3	4267.237	7.02	33.60	38.13	43.36	45.85	74.00	-28.15	peak
4	10380.000	11.76	37.22	35.09	37.54	51.43	74.00	-22.57	peak
5	14618.170	14.75	40.62	38.94	34.99	51.42	74.00	-22.58	peak
6	pp15570.000	15.31	41.37	38.27	33.07	51.48	74.00	-22.52	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

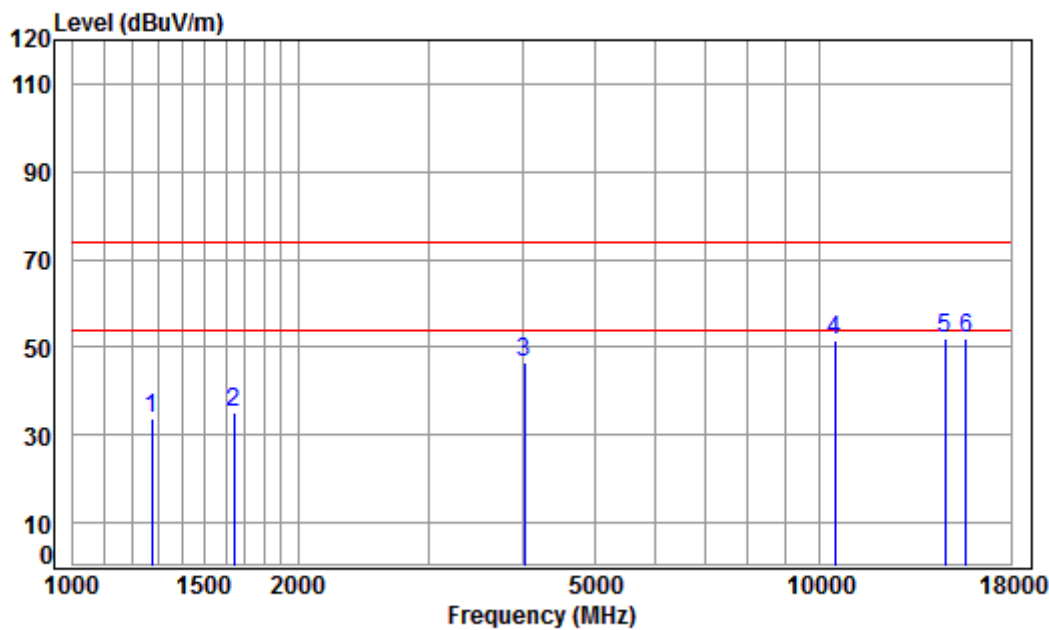
Mode: : 5190 TX RSE

: 5G WIFI-AC40

	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	1196.264	4.07	24.46	38.08	47.82	38.27	74.00	-35.73	peak
2	1611.091	4.60	26.30	38.04	41.89	34.75	74.00	-39.25	peak
3	4392.376	7.16	33.60	38.20	43.52	46.08	74.00	-27.92	peak
4	10380.000	11.76	37.22	35.09	38.11	52.00	74.00	-22.00	peak
5	pp14916.940	14.83	41.15	38.91	35.65	52.72	74.00	-21.28	peak
6	15570.000	15.31	41.37	38.27	34.01	52.42	74.00	-21.58	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

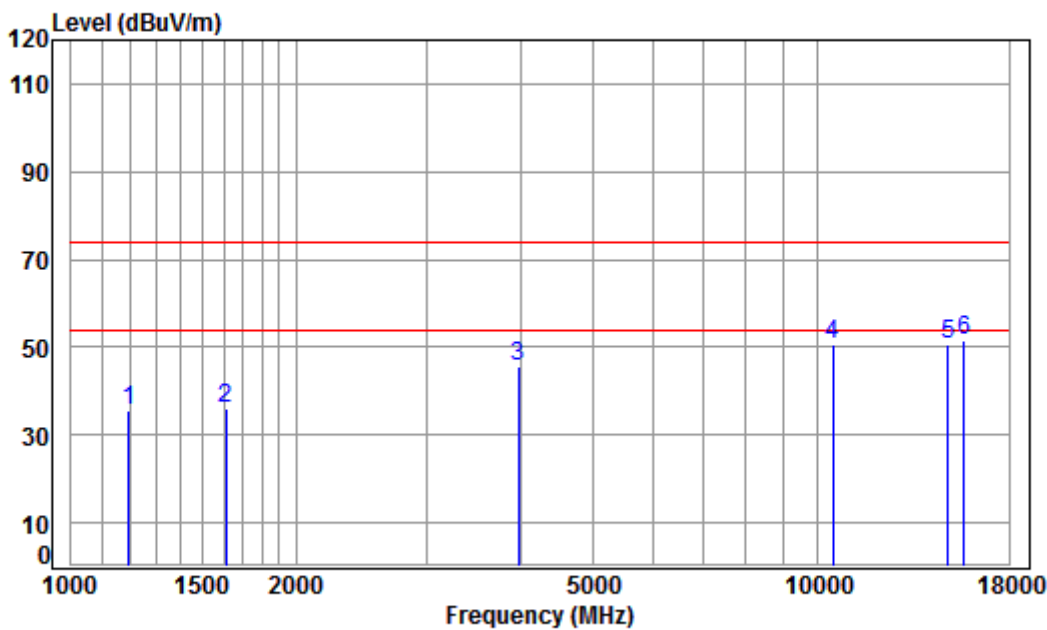
Mode: : 5230 TX RSE

: 5G WIFI-AC40

	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	1274.802	4.19	24.84	38.07	42.59	33.55	74.00	-40.45	peak
2	1644.019	4.64	26.44	38.04	41.92	34.96	74.00	-39.04	peak
3	4015.929	6.72	33.60	38.01	44.09	46.40	74.00	-27.60	peak
4	10460.000	11.83	37.14	35.13	37.52	51.36	74.00	-22.64	peak
5	pp14702.910	14.77	40.77	38.93	35.46	52.07	74.00	-21.93	peak
6	15690.000	15.40	41.32	38.14	33.44	52.02	74.00	-21.98	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

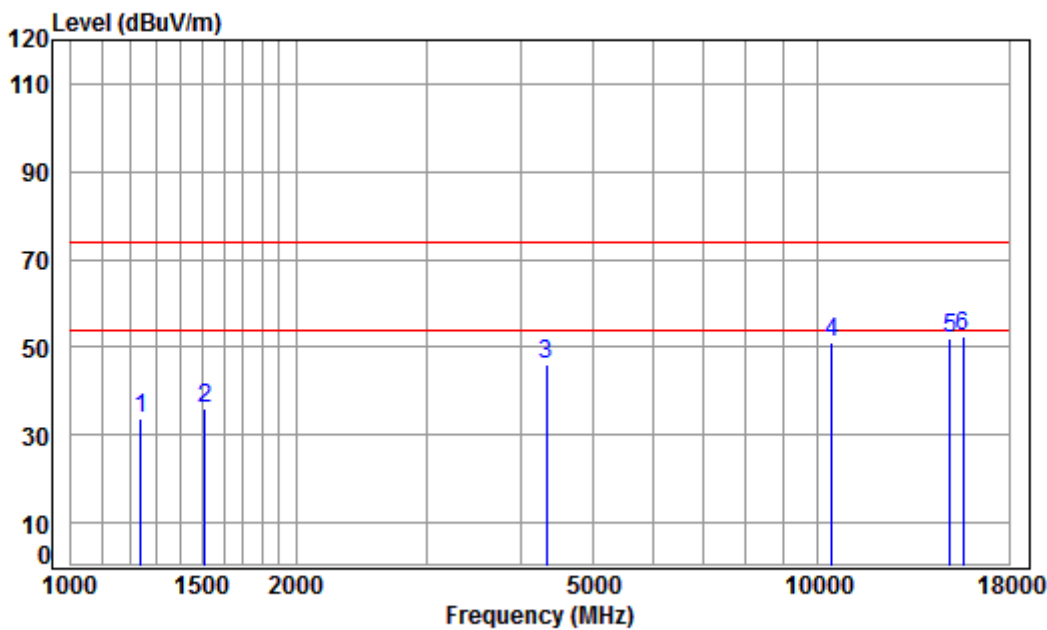
Mode: : 5230 TX RSE

: 5G WIFI-AC40

	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	1196.264	4.07	24.46	38.08	44.94	35.39	74.00	-38.61	peak
2	1611.091	4.60	26.30	38.04	43.01	35.87	74.00	-38.13	peak
3	3969.767	6.68	33.52	38.00	43.48	45.68	74.00	-28.32	peak
4	10460.000	11.83	37.14	35.13	36.86	50.70	74.00	-23.30	peak
5	14916.940	14.83	41.15	38.91	33.76	50.83	74.00	-23.17	peak
6	pp15690.000	15.40	41.32	38.14	32.86	51.44	74.00	-22.56	peak



Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No: : 04534CR

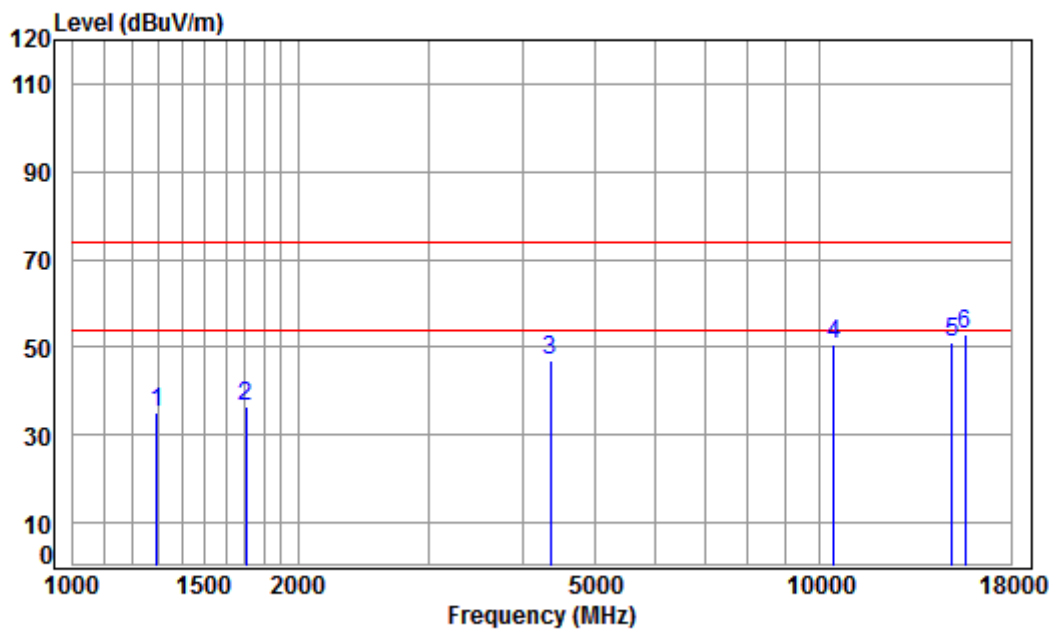
Mode: : 5210 TX RSE

: 5G WIFI-AC80

	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	1238.483	4.13	24.67	38.08	43.09	33.81	74.00	-40.19	peak
2	1511.833	4.48	25.85	38.05	43.74	36.02	74.00	-37.98	peak
3	4329.354	7.09	33.60	38.16	43.55	46.08	74.00	-27.92	peak
4	10420.000	11.79	37.18	35.11	37.11	50.97	74.00	-23.03	peak
5	15003.420	14.85	41.30	38.90	34.74	51.99	74.00	-22.01	peak
6	pp15630.000	15.35	41.35	38.21	34.18	52.67	74.00	-21.33	peak



Mode:b; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:80MHz; Channel:Low



Condition: 3m VERTICAL

Job No: : 04534CR

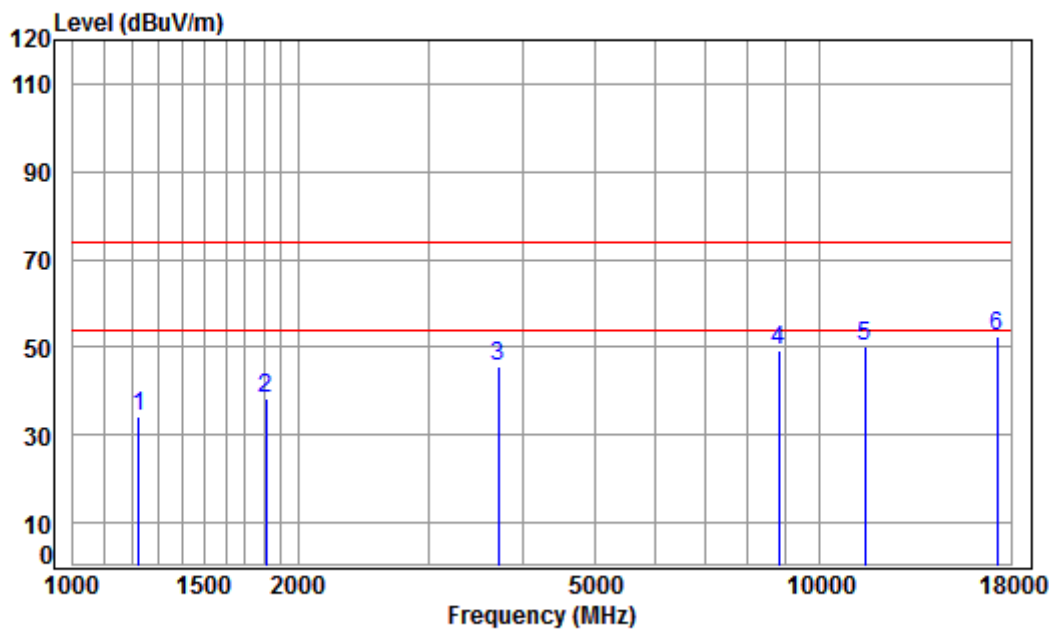
Mode: : 5210 TX RSE

: 5G WIFI-AC80

	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	1293.359	4.21	24.92	38.07	43.90	34.96	74.00	-39.04	peak
2	1702.042	4.71	26.68	38.03	43.14	36.50	74.00	-37.50	peak
3	4354.454	7.12	33.60	38.18	44.61	47.15	74.00	-26.85	peak
4	10420.000	11.79	37.18	35.11	36.76	50.62	74.00	-23.38	peak
5	15003.420	14.85	41.30	38.90	34.03	51.28	74.00	-22.72	peak
6	15630.000	15.35	41.35	38.21	34.44	52.93	74.00	-21.07	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

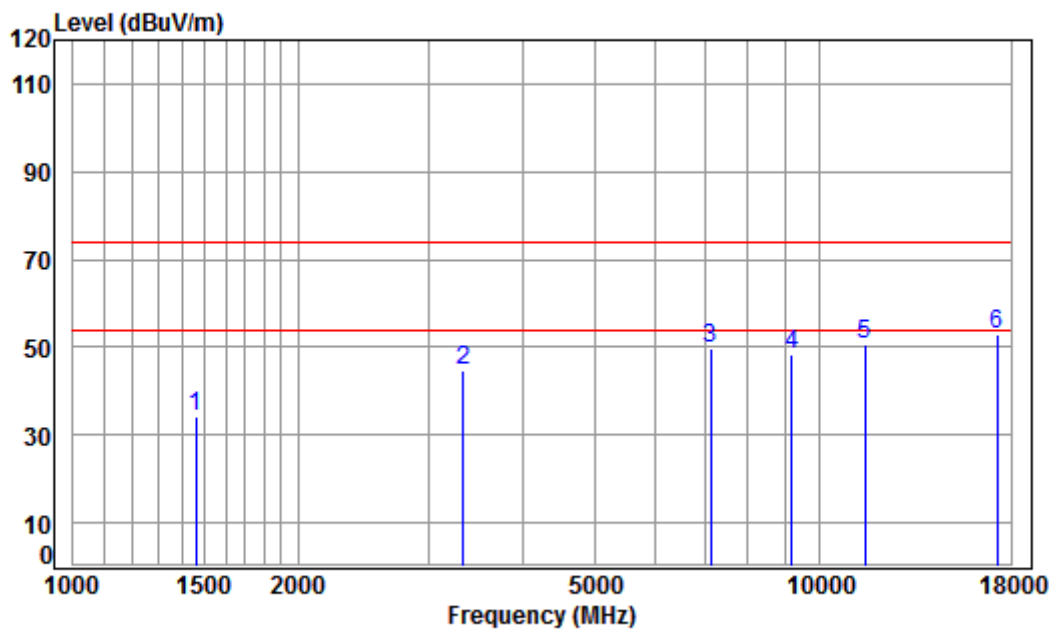
Mode: : 5745 TX RSE

: 5GWIFI-A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.247	4.11	24.60	38.08	43.77	34.40	74.00	-39.60	peak
2	1813.786	4.83	27.12	38.02	44.19	38.12	74.00	-35.88	peak
3	3714.443	6.48	32.82	37.97	44.27	45.60	74.00	-28.40	peak
4	8789.516	10.53	36.35	35.61	37.88	49.15	74.00	-24.85	peak
5	11490.000	12.33	38.09	35.50	35.32	50.24	74.00	-23.76	peak
6	pp17235.000	17.60	43.08	36.18	28.17	52.67	74.00	-21.33	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

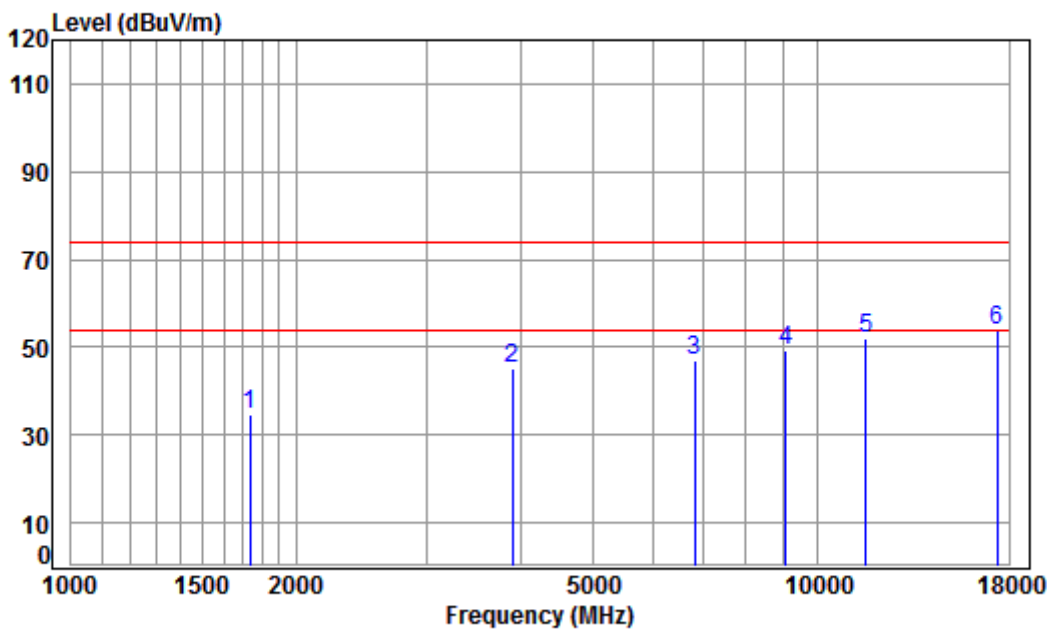
Mode: : 5745 TX RSE

: 5GWIFI-A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1460.295	4.42	25.64	38.05	42.06	34.07	74.00	-39.93	peak
2	3328.077	6.18	31.91	37.93	44.40	44.56	74.00	-29.44	peak
3	7138.144	9.61	36.44	37.18	40.89	49.76	74.00	-24.24	peak
4	9152.479	10.76	36.88	35.32	35.90	48.22	74.00	-25.78	peak
5	11490.000	12.33	38.09	35.50	35.66	50.58	74.00	-23.42	peak
6	17235.000	17.60	43.08	36.18	28.65	53.15	74.00	-20.85	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

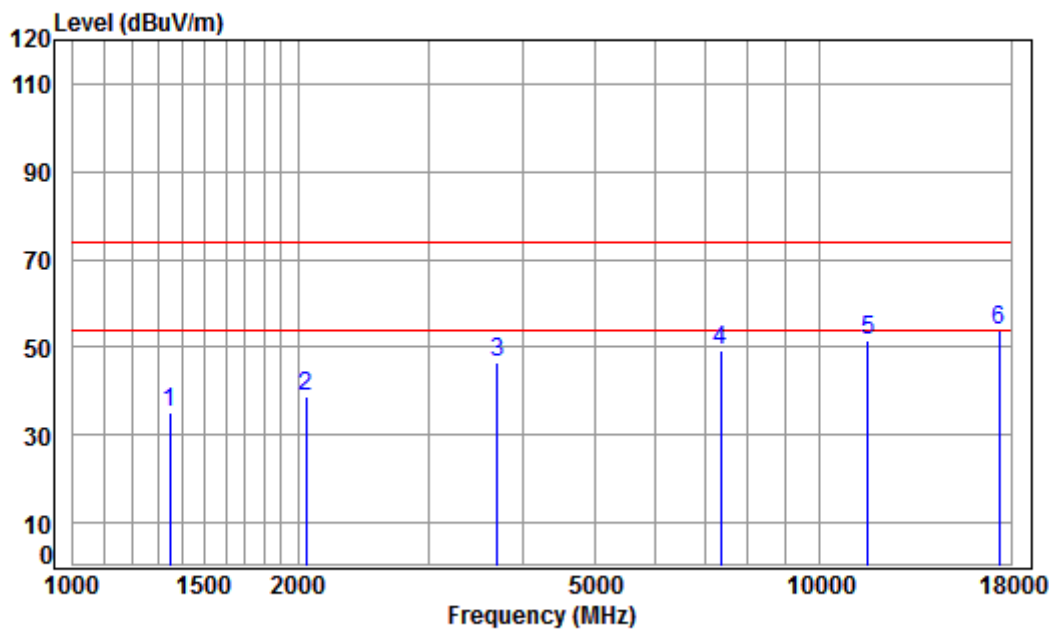
Mode: : 5785 TX RSE

: 5GWIFI-A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1736.829	4.75	26.82	38.03	41.02	34.56	74.00	-39.44	peak
2	3901.516	6.63	33.34	37.99	43.37	45.35	74.00	-28.65	peak
3	6835.278	9.37	36.05	37.46	39.23	47.19	74.00	-26.81	peak
4	9047.272	10.71	36.69	35.38	37.25	49.27	74.00	-24.73	peak
5	11570.000	12.34	38.17	35.51	36.84	51.84	74.00	-22.16	peak
6	pp17355.000	17.93	43.23	36.12	28.82	53.86	74.00	-20.14	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

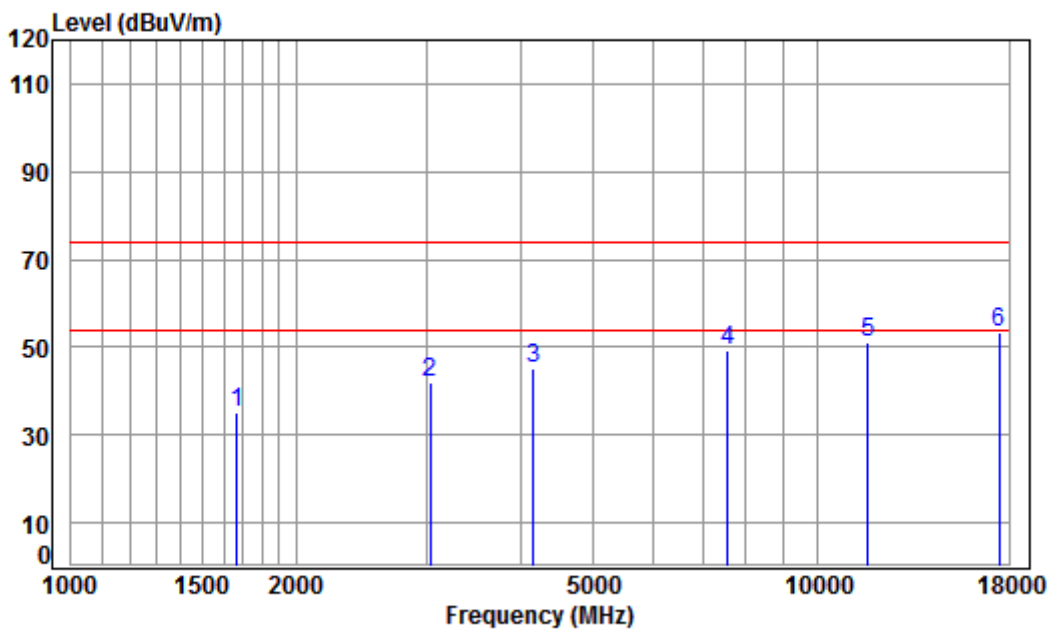
Mode: : 5785 TX RSE

: 5GWIFI-A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1346.769	4.28	25.16	38.07	43.73	35.10	74.00	-38.90	peak
2	2053.822	5.06	27.99	37.99	43.87	38.93	74.00	-35.07	peak
3	3703.723	6.47	32.79	37.97	45.34	46.63	74.00	-27.37	peak
4	7368.741	9.76	36.35	36.97	40.19	49.33	74.00	-24.67	peak
5	11570.000	12.34	38.17	35.51	36.40	51.40	74.00	-22.60	peak
6	pp17355.000	17.93	43.23	36.12	28.81	53.85	74.00	-20.15	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

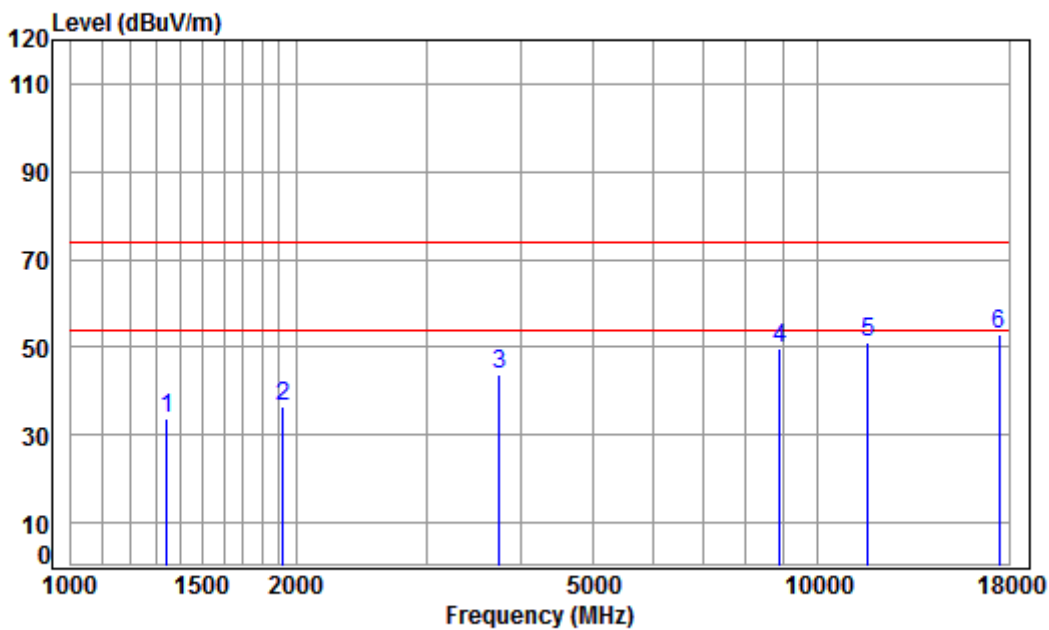
Mode: : 5825 TX RSE

: 5GWIFI-A

	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	1667.951	4.67	26.54	38.03	41.78	34.96	74.00	-39.04	peak
2	3025.306	5.95	31.35	37.90	42.53	41.93	74.00	-32.07	peak
3	4157.664	6.89	33.60	38.08	42.63	45.04	74.00	-28.96	peak
4	7562.942	9.87	36.34	36.79	39.65	49.07	74.00	-24.93	peak
5	11650.000	12.35	38.25	35.53	36.26	51.33	74.00	-22.67	peak
6	pp17475.000	18.25	43.37	36.06	27.86	53.42	74.00	-20.58	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

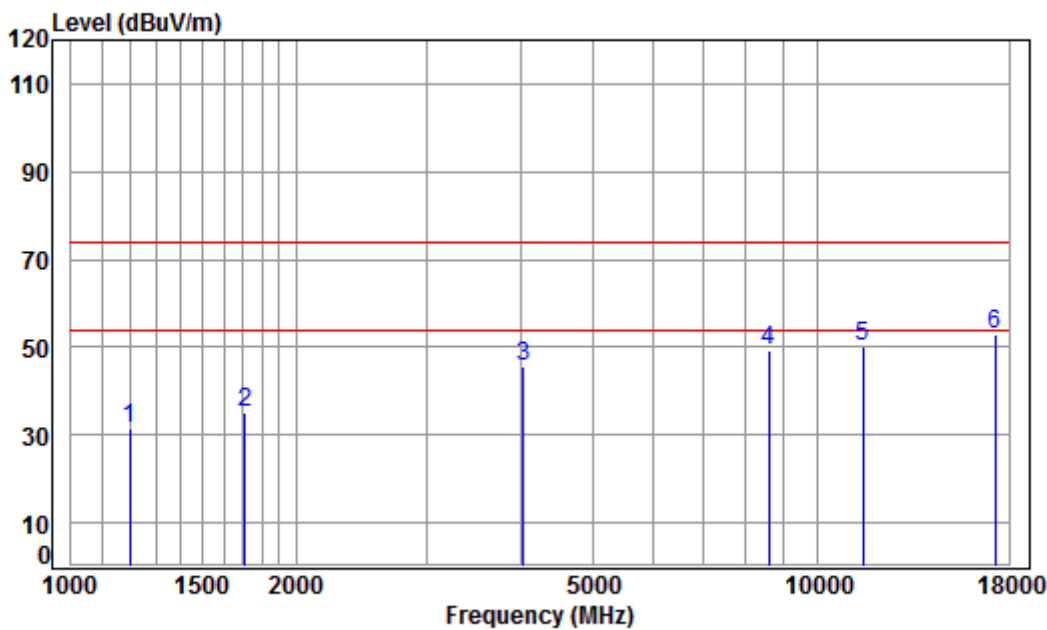
Mode: : 5825 TX RSE

: 5GWIFI-A

	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	1342.882	4.28	25.15	38.07	42.24	33.60	74.00	-40.40	peak
2	1921.727	4.94	27.52	38.01	42.08	36.53	74.00	-37.47	peak
3	3746.792	6.50	32.91	37.97	42.55	43.99	74.00	-30.01	peak
4	8891.725	10.60	36.47	35.51	38.10	49.66	74.00	-24.34	peak
5	11650.000	12.35	38.25	35.53	36.15	51.22	74.00	-22.78	peak
6	pp17475.000	18.25	43.37	36.06	27.45	53.01	74.00	-20.99	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

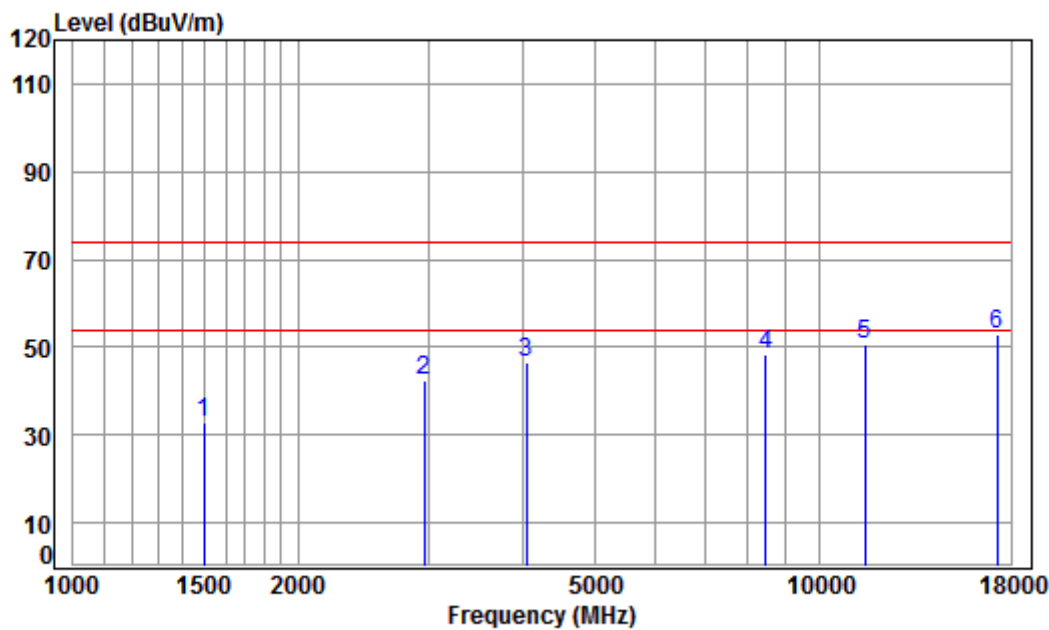
Mode: : 5745 TX RSE

: 5G WIFI-N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.726	4.08	24.48	38.08	41.02	31.50	74.00	-42.50	peak
2	1711.909	4.72	26.72	38.03	41.63	35.04	74.00	-38.96	peak
3	4027.554	6.73	33.60	38.01	43.24	45.56	74.00	-28.44	peak
4	8588.607	10.38	36.11	35.81	38.41	49.09	74.00	-24.91	peak
5	11490.000	12.33	38.09	35.50	35.21	50.13	74.00	-23.87	peak
6	pp17235.000	17.60	43.08	36.18	28.41	52.91	74.00	-21.09	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

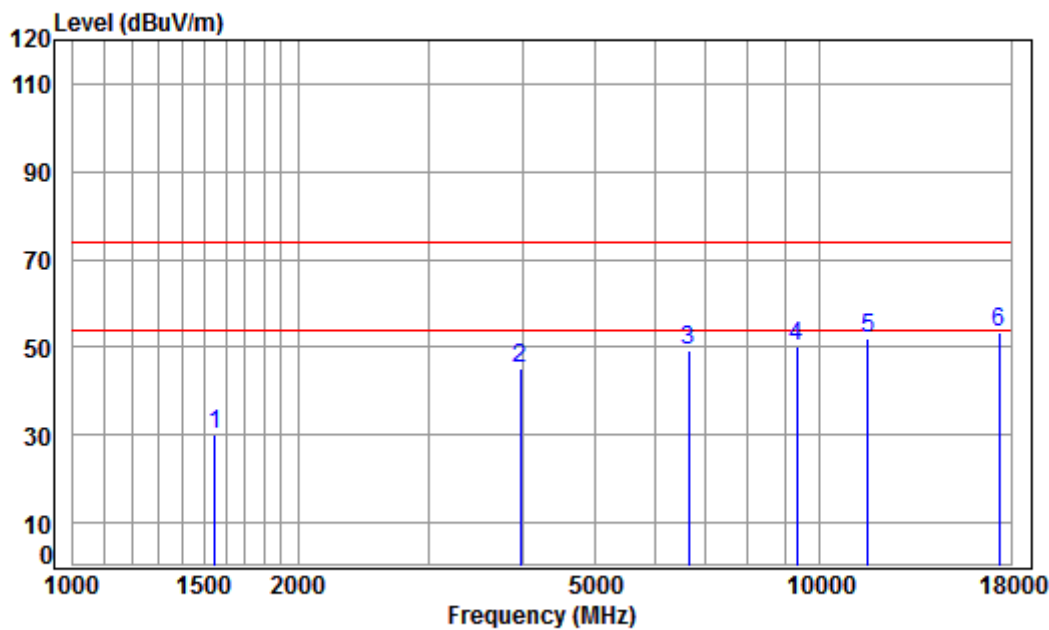
Mode: : 5745 TX RSE

: 5G WIFI-N20

	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	1498.781	4.47	25.80	38.05	40.60	32.82	74.00	-41.18	peak
2	2956.155	5.89	31.15	37.90	43.17	42.31	74.00	-31.69	peak
3	4039.212	6.75	33.60	38.02	44.24	46.57	74.00	-27.43	peak
4	8465.379	10.29	36.04	35.93	37.94	48.34	74.00	-25.66	peak
5	11490.000	12.33	38.09	35.50	35.82	50.74	74.00	-23.26	peak
6	pp17235.000	17.60	43.08	36.18	28.36	52.86	74.00	-21.14	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

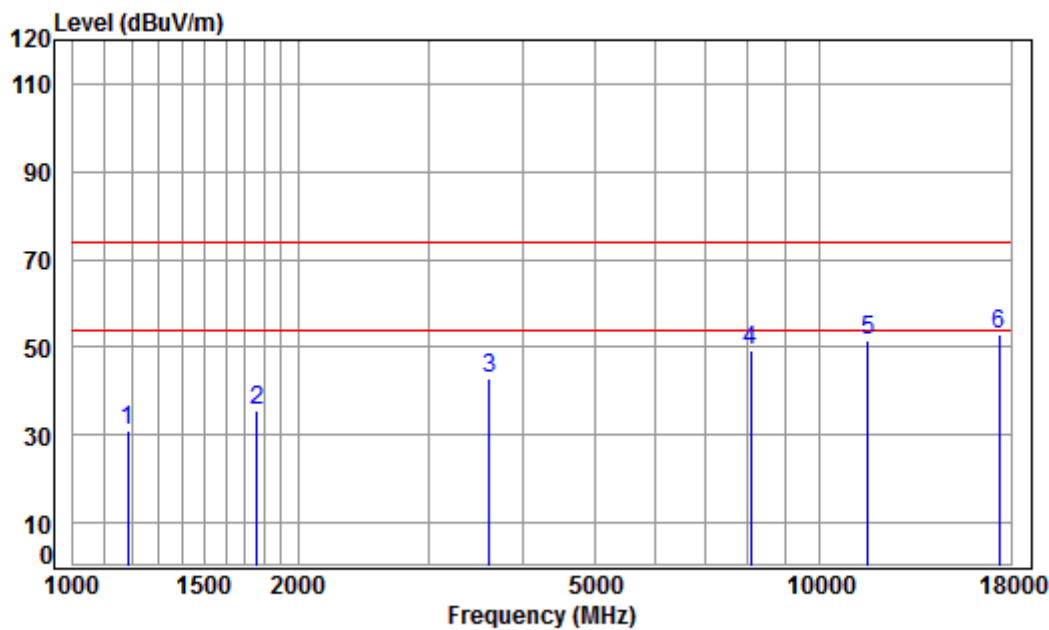
Mode: : 5785 TX RSE

: 5G WIFI-N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1547.199	4.53	26.02	38.05	37.59	30.09	74.00	-43.91	peak
2	3969.767	6.68	33.52	38.00	43.20	45.40	74.00	-28.60	peak
3	6659.763	9.21	35.56	37.64	42.19	49.32	74.00	-24.68	peak
4	9312.588	10.85	37.17	35.24	37.45	50.23	74.00	-23.77	peak
5	11570.000	12.34	38.17	35.51	36.92	51.92	74.00	-22.08	peak
6	17355.000	17.93	43.23	36.12	28.36	53.40	74.00	-20.60	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

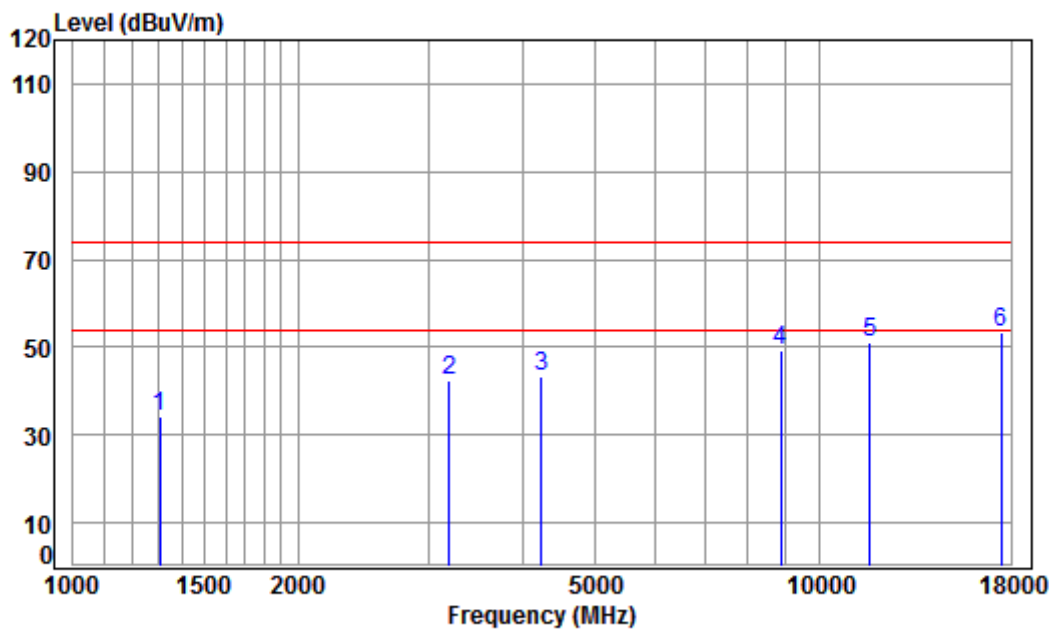
Mode: : 5785 TX RSE

: 5G WIFI-N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1182.513	4.05	24.39	38.08	40.87	31.23	74.00	-42.77	peak
2	1762.112	4.77	26.92	38.02	42.02	35.69	74.00	-38.31	peak
3	3608.619	6.39	32.52	37.96	41.89	42.84	74.00	-31.16	peak
4	8082.804	10.09	36.50	36.32	39.20	49.47	74.00	-24.53	peak
5	11570.000	12.34	38.17	35.51	36.64	51.64	74.00	-22.36	peak
6	pp17355.000	17.93	43.23	36.12	28.11	53.15	74.00	-20.85	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

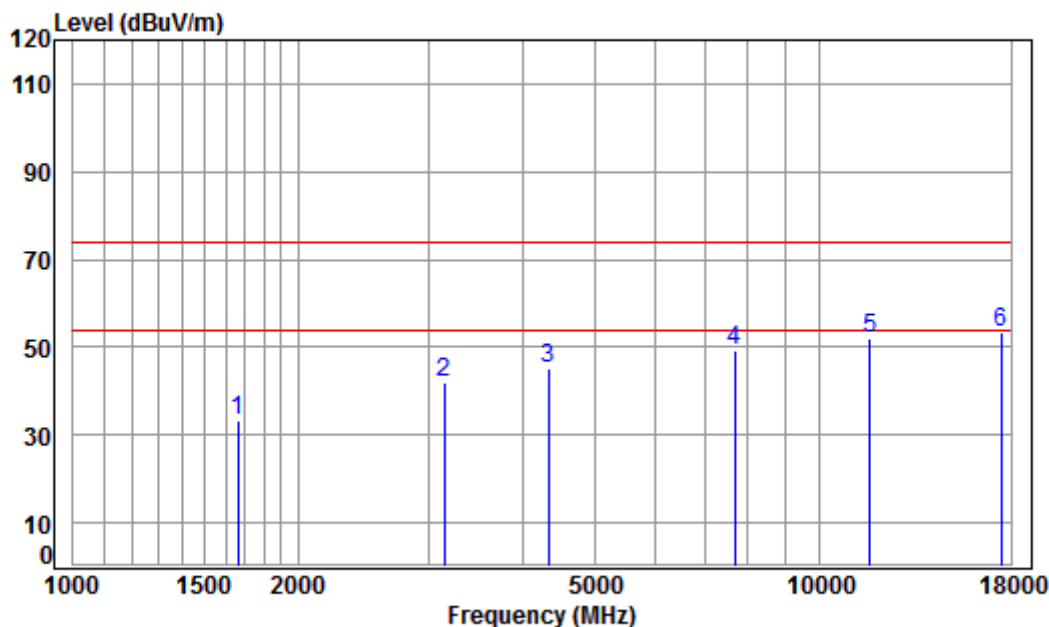
Mode: : 5825 TX RSE

: 5G WIFI-N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1308.399	4.23	24.99	38.07	43.00	34.15	74.00	-39.85	peak
2	3186.869	6.08	31.65	37.92	42.65	42.46	74.00	-31.54	peak
3	4230.396	6.98	33.60	38.12	41.09	43.55	74.00	-30.45	peak
4	8866.062	10.58	36.44	35.53	37.89	49.38	74.00	-24.62	peak
5	11650.000	12.35	38.25	35.53	36.09	51.16	74.00	-22.84	peak
6	pp17475.000	18.25	43.37	36.06	27.75	53.31	74.00	-20.69	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

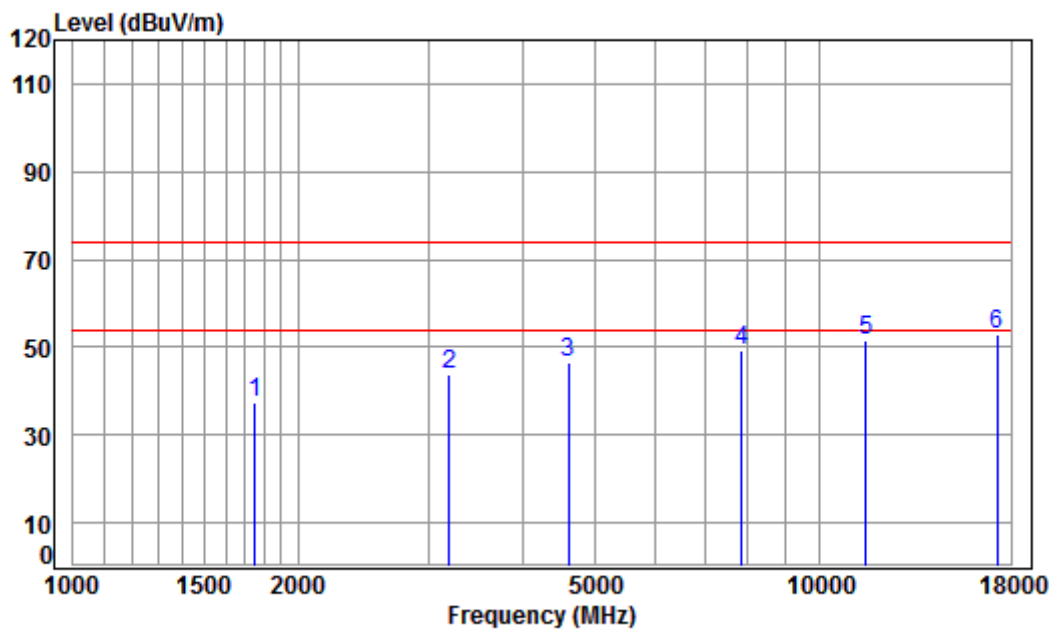
Mode: : 5825 TX RSE

: 5G WIFI-N20

	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	1663.137	4.66	26.52	38.03	40.37	33.52	74.00	-40.48	peak
2	3141.145	6.04	31.57	37.91	42.11	41.81	74.00	-32.19	peak
3	4329.354	7.09	33.60	38.16	42.73	45.26	74.00	-28.74	peak
4	7695.244	9.93	36.42	36.67	39.77	49.45	74.00	-24.55	peak
5	11650.000	12.35	38.25	35.53	36.87	51.94	74.00	-22.06	peak
6	pp17475.000	18.25	43.37	36.06	27.81	53.37	74.00	-20.63	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

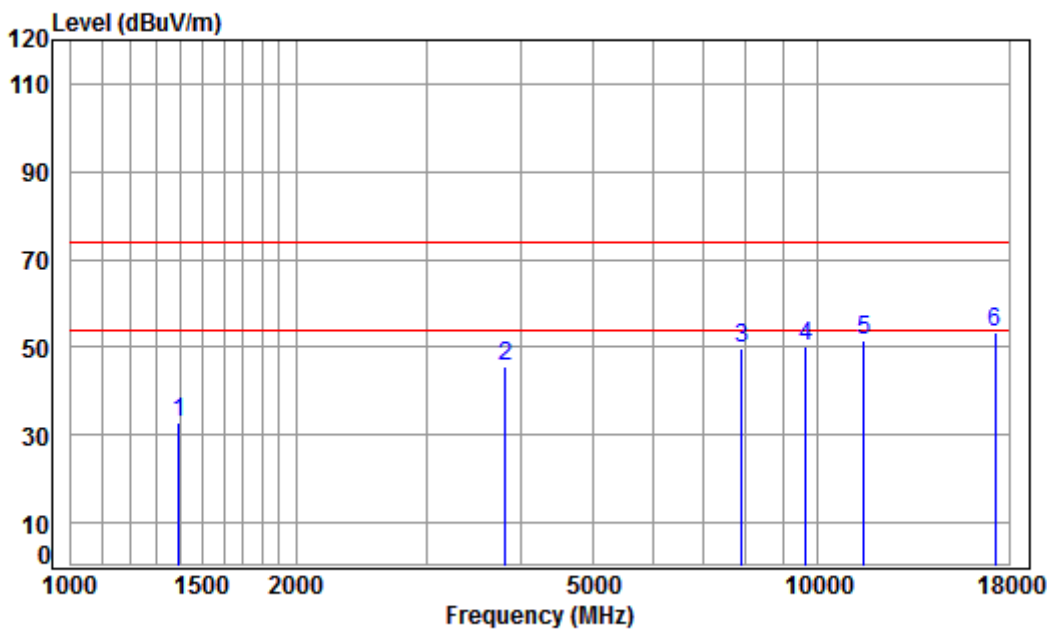
Mode: : 5755 TX RSE

: 5G WIFI-N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1751.955	4.76	26.88	38.02	43.61	37.23	74.00	-36.77	peak
2	3186.869	6.08	31.65	37.92	43.87	43.68	74.00	-30.32	peak
3	4600.276	7.43	33.79	38.30	43.81	46.73	74.00	-27.27	peak
4	7852.524	9.99	36.51	36.53	39.28	49.25	74.00	-24.75	peak
5	11510.000	12.33	38.11	35.50	36.43	51.37	74.00	-22.63	peak
6	pp17265.000	17.68	43.12	36.17	28.37	53.00	74.00	-21.00	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

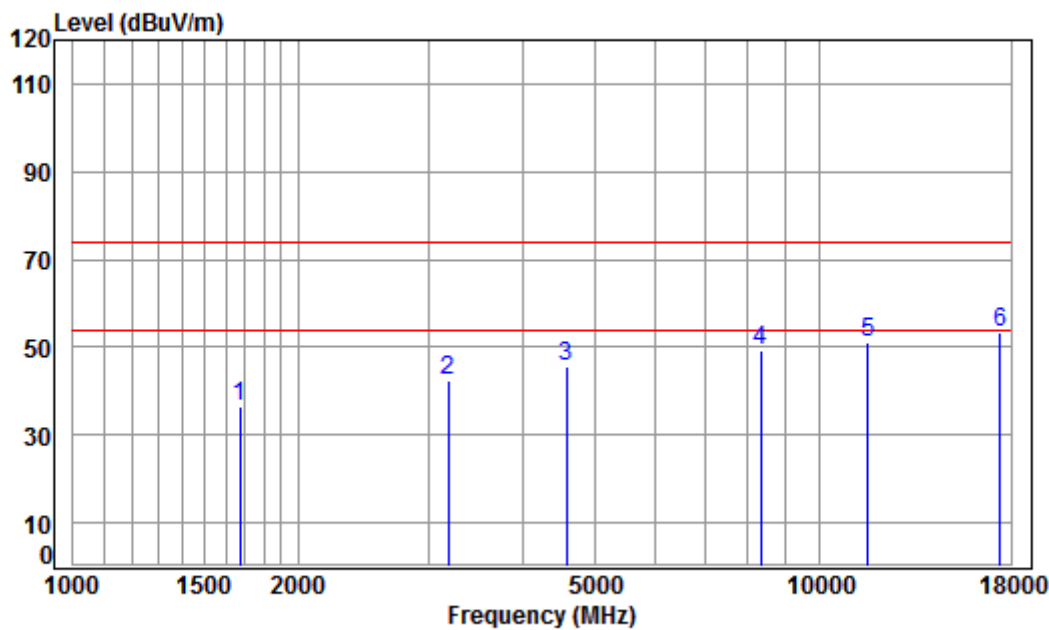
Mode: : 5755 TX RSE

: 5G WIFI-N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1394.300	4.34	25.37	38.06	41.04	32.69	74.00	-41.31	peak
2	3812.336	6.56	33.10	37.98	43.81	45.49	74.00	-28.51	peak
3	7898.049	10.00	36.54	36.49	39.82	49.87	74.00	-24.13	peak
4	9613.430	11.06	37.52	35.09	36.65	50.14	74.00	-23.86	peak
5	11510.000	12.33	38.11	35.50	36.53	51.47	74.00	-22.53	peak
6	pp17265.000	17.68	43.12	36.17	28.83	53.46	74.00	-20.54	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

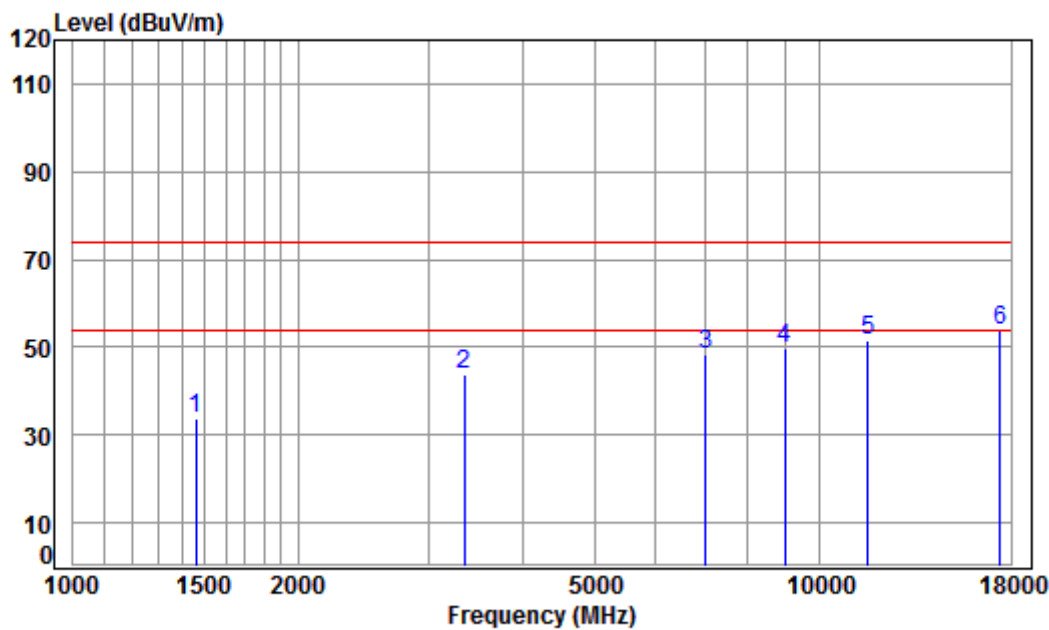
Mode: : 5795 TX RSE

: 5G WIFI-N40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	4.67	26.56	38.03	43.53	36.73	74.00	-37.27	peak
2	3177.672	6.07	31.64	37.92	42.80	42.59	74.00	-31.41	peak
3	4573.760	7.39	33.74	38.29	42.95	45.79	74.00	-28.21	peak
4	8319.836	10.21	36.21	36.08	38.78	49.12	74.00	-24.88	peak
5	11590.000	12.34	38.19	35.52	36.06	51.07	74.00	-22.93	peak
6	17385.000	18.01	43.26	36.11	28.16	53.32	74.00	-20.68	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

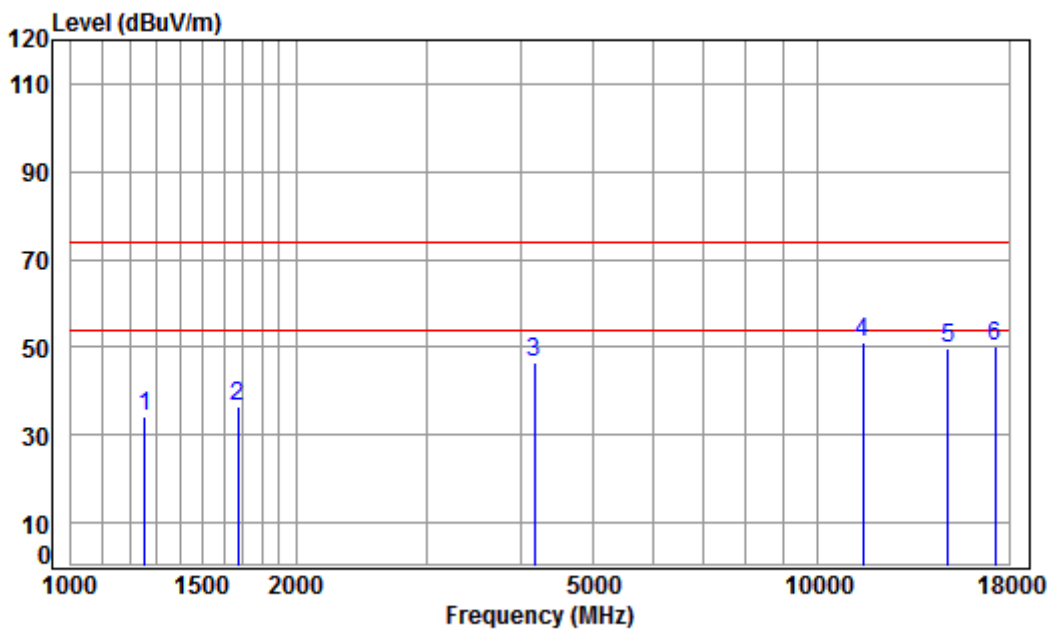
Mode: : 5795 TX RSE

: 5G WIFI-N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1460.295	4.42	25.64	38.05	41.77	33.78	74.00	-40.22	peak
2	3337.710	6.19	31.92	37.93	43.79	43.97	74.00	-30.03	peak
3	7035.727	9.54	36.49	37.27	39.82	48.58	74.00	-25.42	peak
4	8969.161	10.66	36.56	35.43	37.97	49.76	74.00	-24.24	peak
5	11590.000	12.34	38.19	35.52	36.67	51.68	74.00	-22.32	peak
6	pp17385.000	18.01	43.26	36.11	28.46	53.62	74.00	-20.38	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

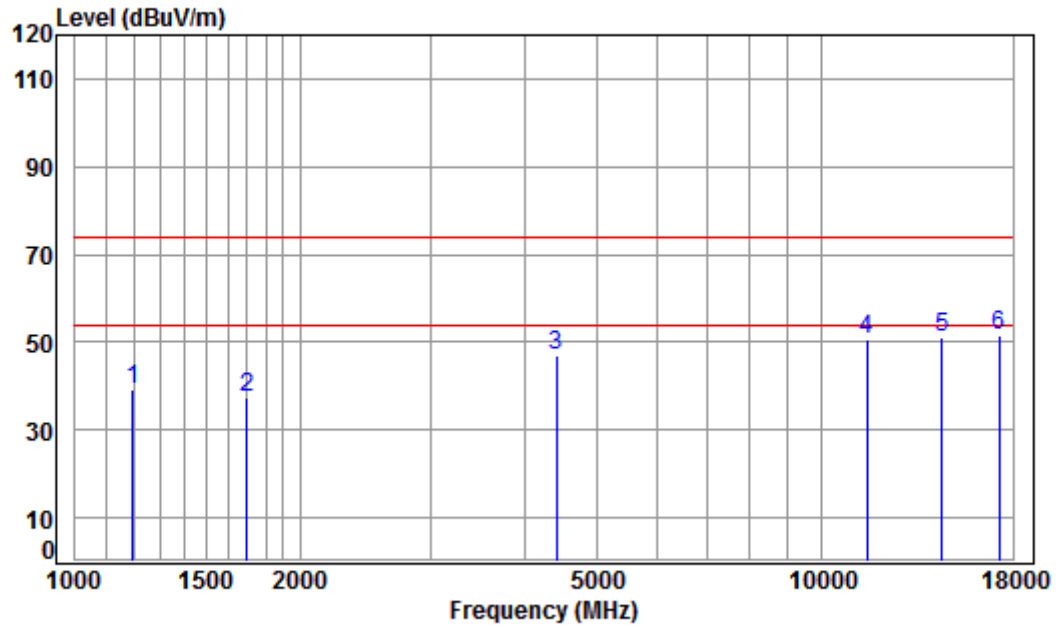
Mode: : 5745 TX RSE

: 5G WIFI-AC20

	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	1256.512	4.16	24.75	38.07	43.21	34.05	74.00	-39.95	peak
2	1672.779	4.67	26.56	38.03	43.28	36.48	74.00	-37.52	peak
3	4169.698	6.90	33.60	38.08	44.20	46.62	74.00	-27.38	peak
4	pp11490.000	12.33	38.09	35.50	36.38	51.30	74.00	-22.70	peak
5	14916.940	14.83	41.15	38.91	32.85	49.92	74.00	-24.08	peak
6	17235.000	17.60	43.08	36.18	25.56	50.06	74.00	-23.94	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

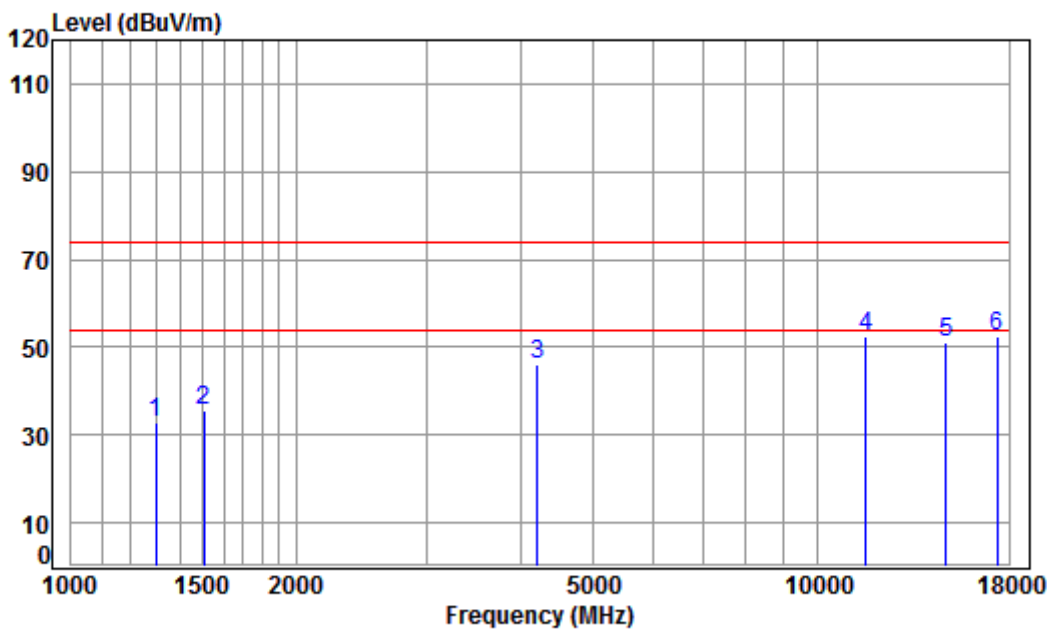
Mode: : 5745 TX RSE

: 5G WIFI-AC20

	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	1196.264	4.07	24.46	38.08	48.66	39.11	74.00	-34.89	peak
2	1697.129	4.70	26.66	38.03	43.99	37.32	74.00	-36.68	peak
3	4405.090	7.18	33.60	38.20	44.56	47.14	74.00	-26.86	peak
4	11490.000	12.33	38.09	35.50	35.70	50.62	74.00	-23.38	peak
5	14450.130	14.71	40.28	38.95	34.97	51.01	74.00	-22.99	peak
6	pp17235.000	17.60	43.08	36.18	27.00	51.50	74.00	-22.50	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

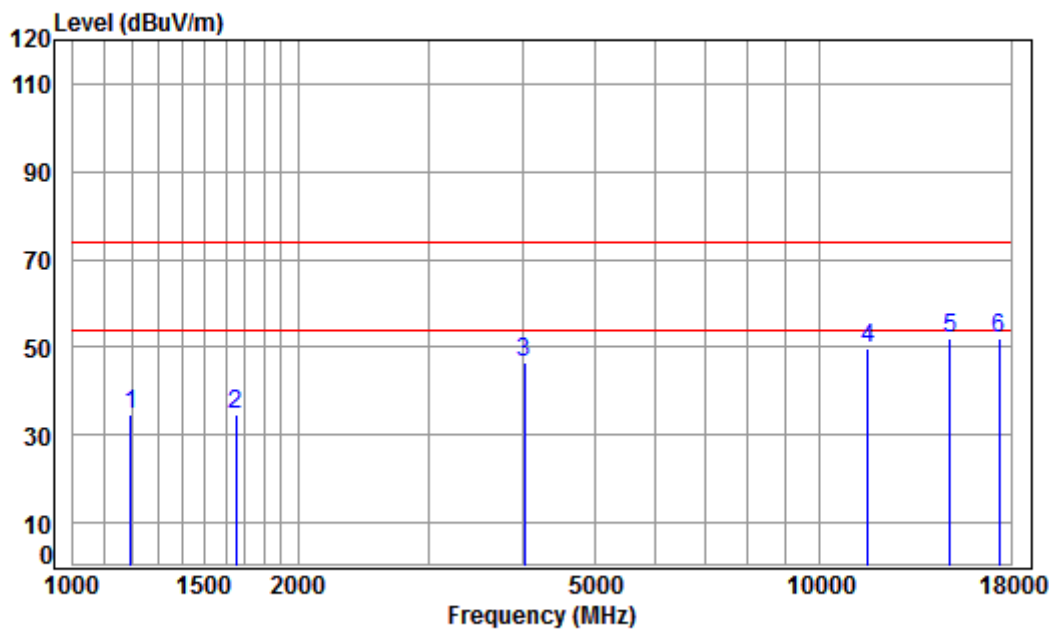
Mode: : 5785 TX RSE

: 5G WIFI-AC20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	4.22	24.96	38.07	41.66	32.77	74.00	-41.23	peak
2	1507.470	4.48	25.83	38.05	43.13	35.39	74.00	-38.61	peak
3	4206.011	6.95	33.60	38.10	43.60	46.05	74.00	-27.95	peak
4	11570.000	12.34	38.17	35.51	37.54	52.54	74.00	-21.46	peak
5	14830.960	14.81	41.00	38.92	34.36	51.25	74.00	-22.75	peak
6	17355.000	17.93	43.23	36.12	27.52	52.56	74.00	-21.44	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

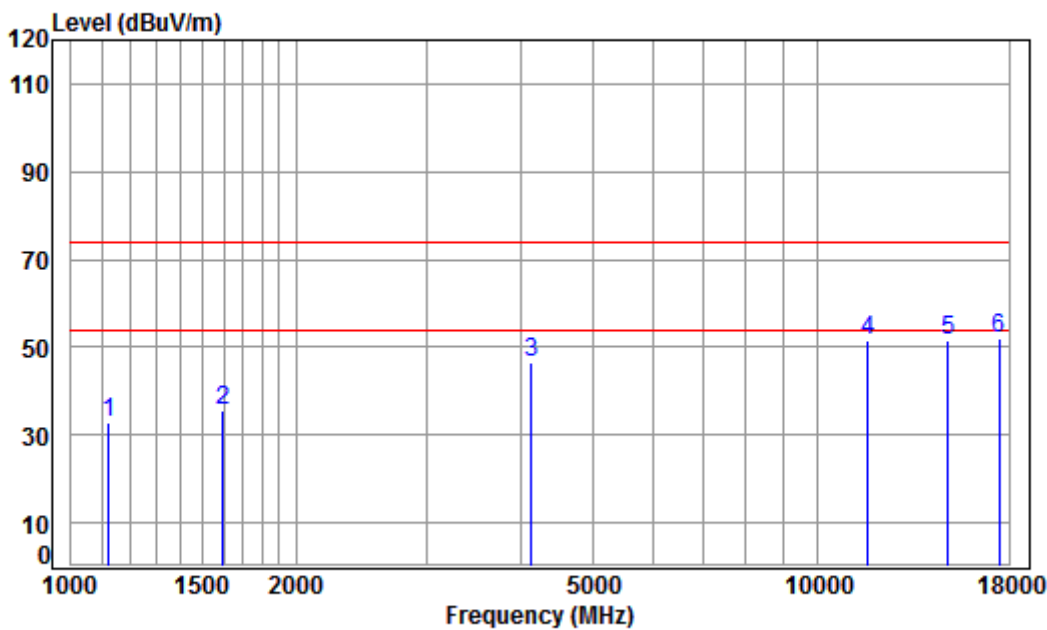
Mode: : 5785 TX RSE

: 5G WIFI-AC20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	4.07	24.46	38.08	44.19	34.64	74.00	-39.36	peak
2	1653.550	4.65	26.48	38.03	41.54	34.64	74.00	-39.36	peak
3	4015.929	6.72	33.60	38.01	44.19	46.50	74.00	-27.50	peak
4	11570.000	12.34	38.17	35.51	34.95	49.95	74.00	-24.05	peak
5	14916.940	14.83	41.15	38.91	34.73	51.80	74.00	-22.20	peak
6	17355.000	17.93	43.23	36.12	27.11	52.15	74.00	-21.85	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

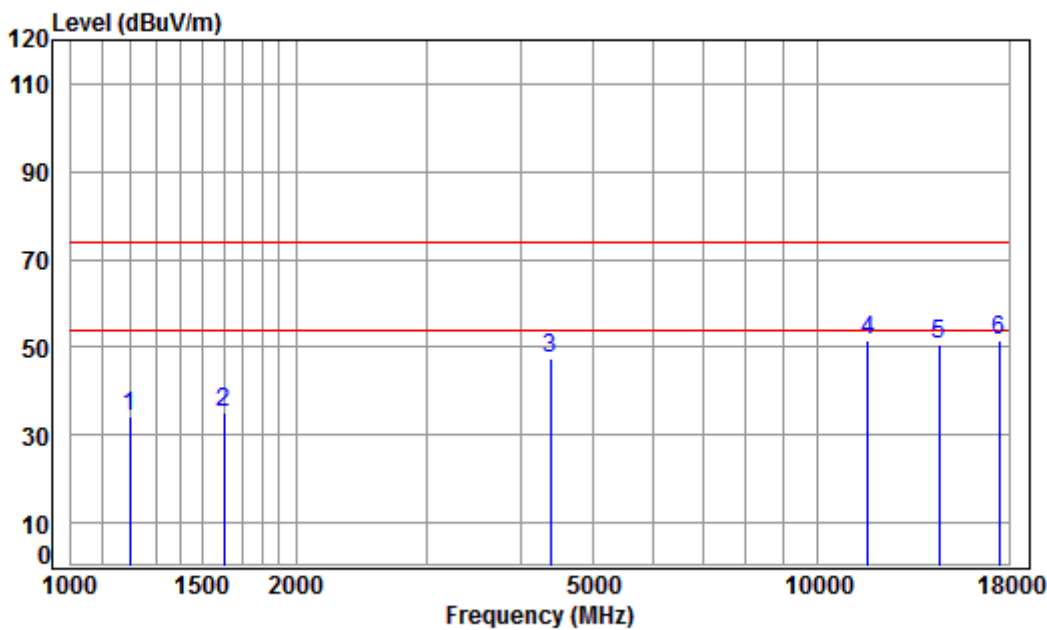
Mode: : 5825 TX RSE

: 5G WIFI-AC20

	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	1122.563	3.96	24.08	38.09	43.02	32.97	74.00	-41.03	peak
2	1597.181	4.59	26.24	38.04	42.98	35.77	74.00	-38.23	peak
3	4133.699	6.86	33.60	38.07	43.94	46.33	74.00	-27.67	peak
4	11650.000	12.35	38.25	35.53	36.60	51.67	74.00	-22.33	peak
5	14916.940	14.83	41.15	38.91	34.39	51.46	74.00	-22.54	peak
6	pp17475.000	18.25	43.37	36.06	26.49	52.05	74.00	-21.95	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

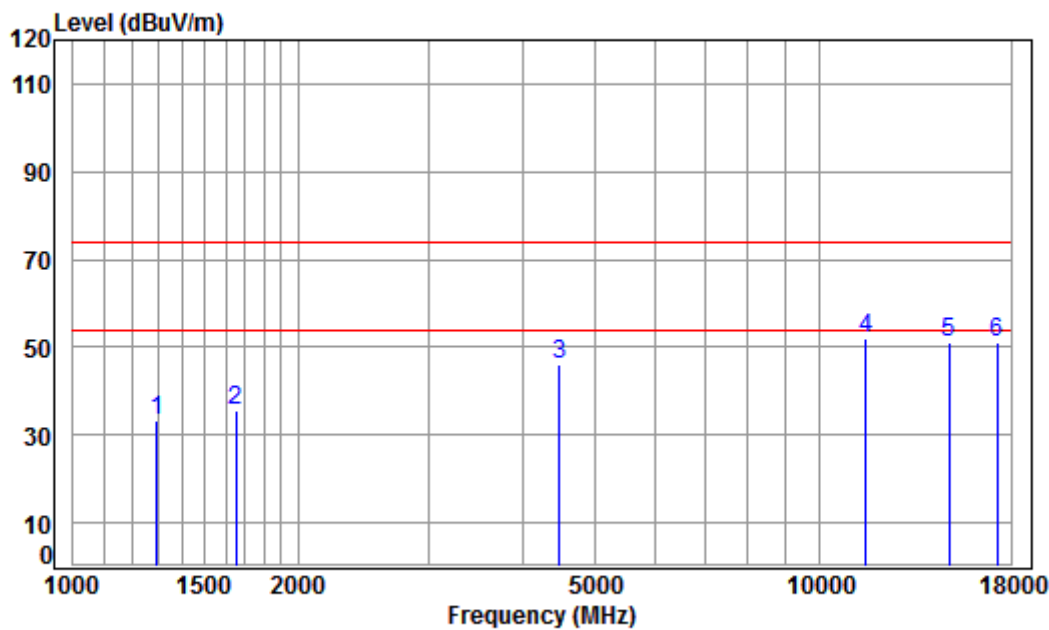
Mode: : 5825 TX RSE

: 5G WIFI-AC20

	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	1199.726	4.08	24.48	38.08	43.91	34.39	74.00	-39.61	peak
2	1601.804	4.59	26.26	38.04	42.24	35.05	74.00	-38.95	peak
3	4379.699	7.15	33.60	38.19	44.79	47.35	74.00	-26.65	peak
4	11650.000	12.35	38.25	35.53	36.69	51.76	74.00	-22.24	peak
5	14491.960	14.72	40.38	38.95	34.72	50.87	74.00	-23.13	peak
6	17475.000	18.25	43.37	36.06	25.82	51.38	74.00	-22.62	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

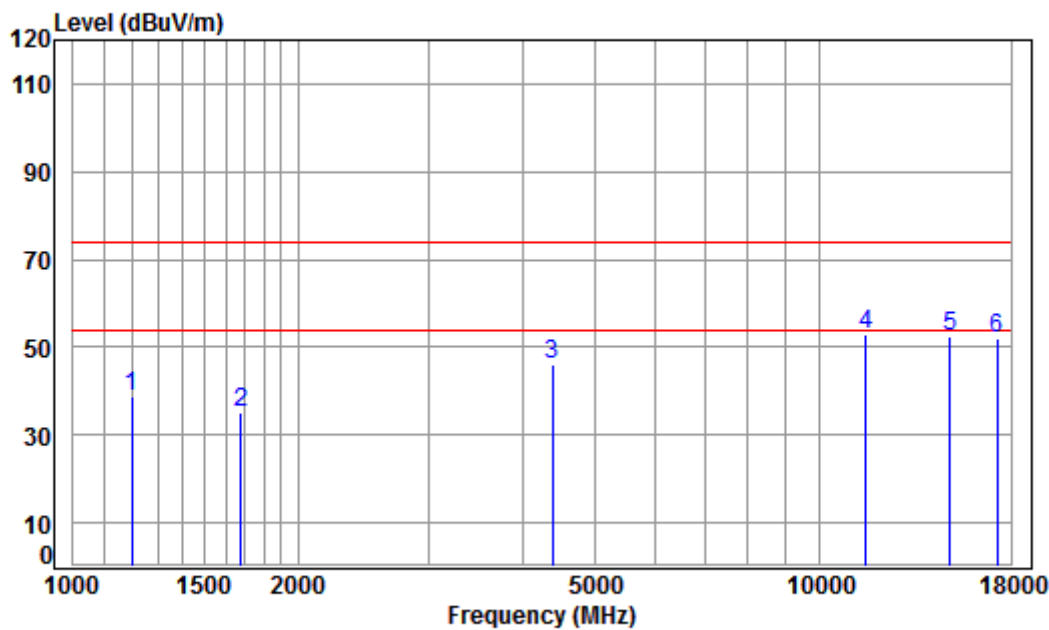
Mode: : 5755 TX RSE

: 5G WIFI-AC40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1293.359	4.21	24.92	38.07	42.41	33.47	74.00	-40.53	peak
2	1653.550	4.65	26.48	38.03	42.54	35.64	74.00	-38.36	peak
3	4482.150	7.26	33.60	38.24	43.33	45.95	74.00	-28.05	peak
4	pp11510.000	12.33	38.11	35.50	37.22	52.16	74.00	-21.84	peak
5	14873.890	14.82	41.08	38.91	34.18	51.17	74.00	-22.83	peak
6	17265.000	17.68	43.12	36.17	26.69	51.32	74.00	-22.68	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

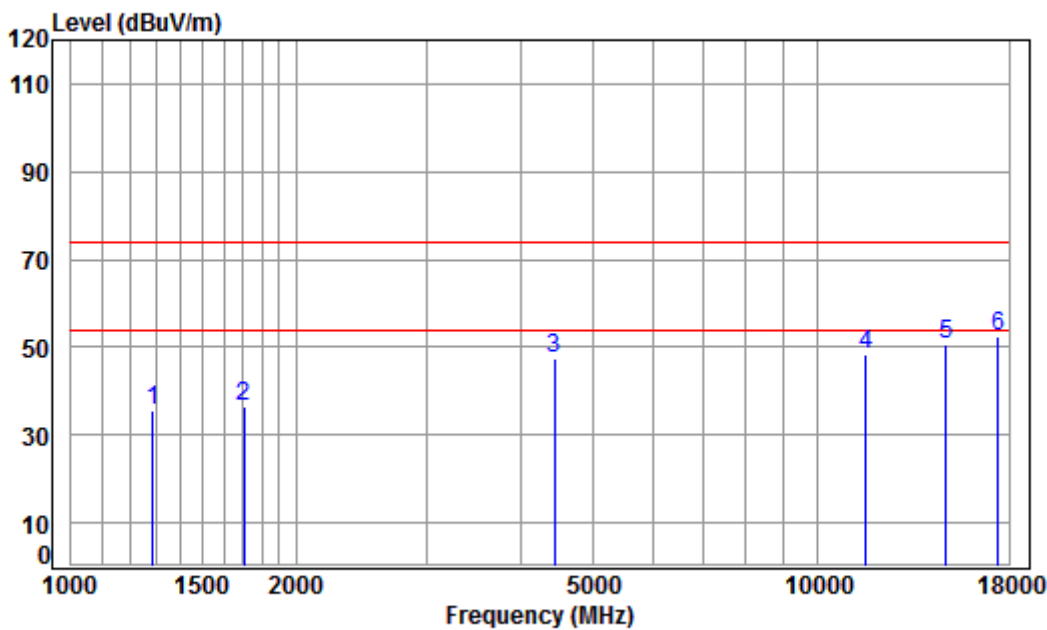
Mode: : 5755 TX RSE

: 5G WIFI-AC40

	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	1199.726	4.08	24.48	38.08	48.10	38.58	74.00	-35.42	peak
2	1677.621	4.68	26.58	38.03	42.01	35.24	74.00	-38.76	peak
3	4379.699	7.15	33.60	38.19	43.73	46.29	74.00	-27.71	peak
4	11510.000	12.33	38.11	35.50	37.90	52.84	74.00	-21.16	peak
5	14916.940	14.83	41.15	38.91	35.26	52.33	74.00	-21.67	peak
6	17265.000	17.68	43.12	36.17	27.26	51.89	74.00	-22.11	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

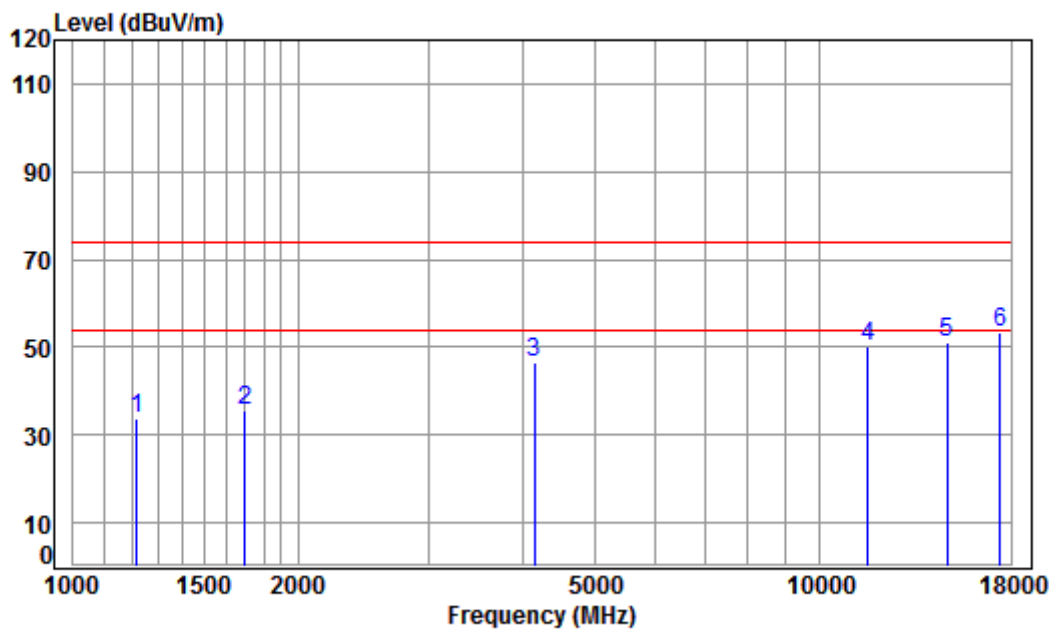
Mode: : 5795 TX RSE

: 5G WIFI-AC40

	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	1285.904	4.20	24.89	38.07	44.47	35.49	74.00	-38.51	peak
2	1702.042	4.71	26.68	38.03	43.28	36.64	74.00	-37.36	peak
3	4430.628	7.20	33.60	38.22	44.70	47.28	74.00	-26.72	peak
4	11590.000	12.34	38.19	35.52	33.46	48.47	74.00	-25.53	peak
5	14830.960	14.81	41.00	38.92	33.97	50.86	74.00	-23.14	peak
6	pp17385.000	18.01	43.26	36.11	27.25	52.41	74.00	-21.59	peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

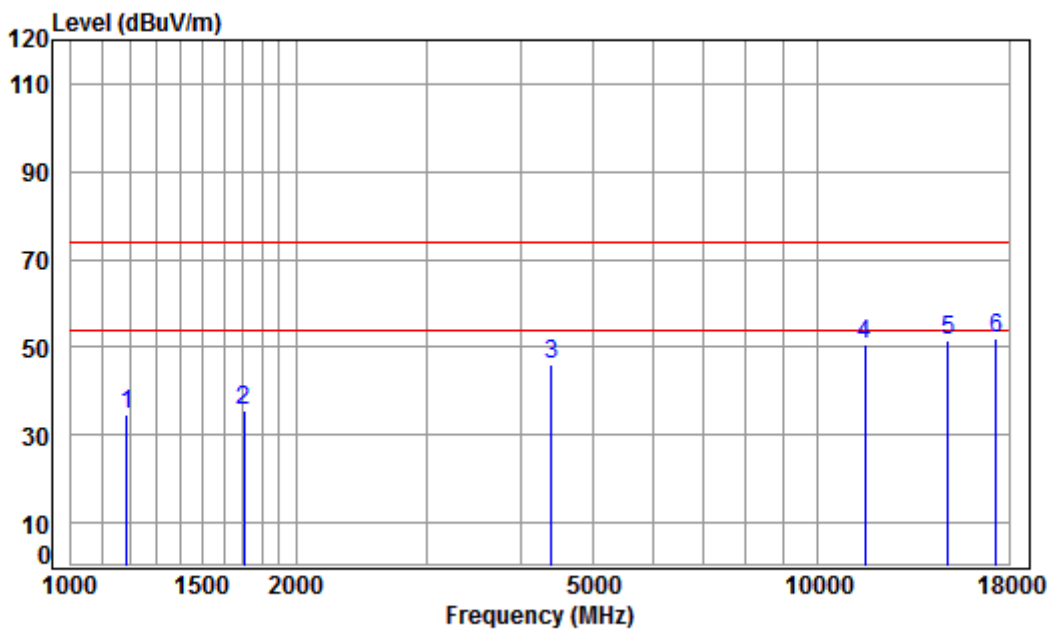
Mode: : 5795 TX RSE

: 5G WIFI-AC40

	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	1217.190	4.10	24.56	38.08	43.15	33.73	74.00	-40.27	peak
2	1697.129	4.70	26.66	38.03	42.18	35.51	74.00	-38.49	peak
3	4145.664	6.88	33.60	38.07	44.15	46.56	74.00	-27.44	peak
4	11590.000	12.34	38.19	35.52	34.99	50.00	74.00	-24.00	peak
5	14788.150	14.80	40.92	38.92	34.53	51.33	74.00	-22.67	peak
6	pp17385.000	18.01	43.26	36.11	28.19	53.35	74.00	-20.65	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

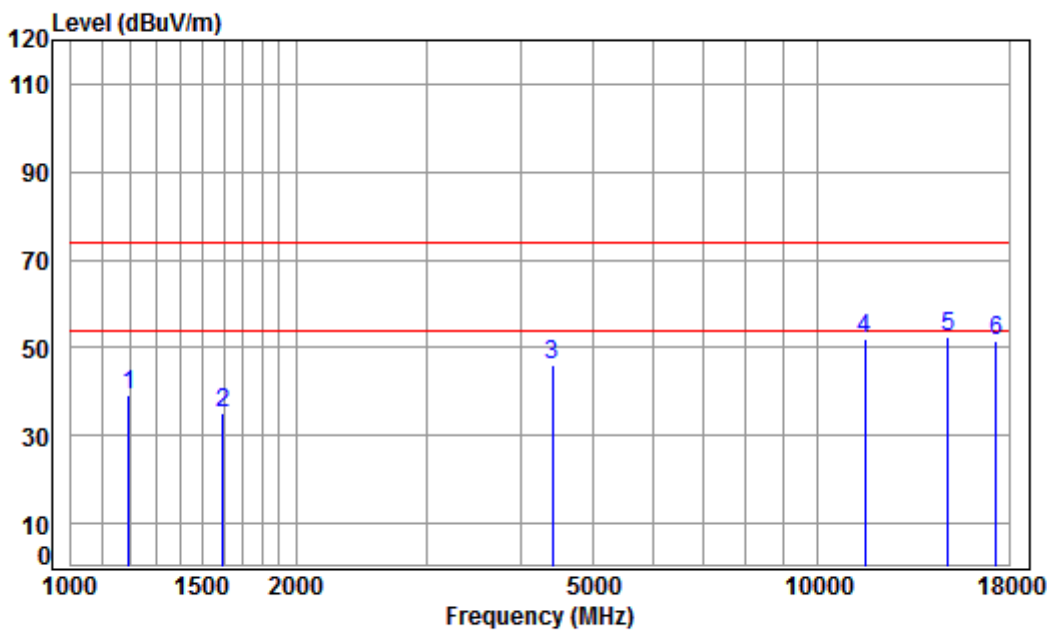
Mode: : 5775 TX RSE

: 5G WIFI-AC80

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1189.368	4.06	24.43	38.08	44.07	34.48	74.00	-39.52	peak
2	1702.042	4.71	26.68	38.03	42.22	35.58	74.00	-38.42	peak
3	4392.376	7.16	33.60	38.20	43.50	46.06	74.00	-27.94	peak
4	11550.000	12.34	38.15	35.51	35.84	50.82	74.00	-23.18	peak
5	14916.940	14.83	41.15	38.91	34.57	51.64	74.00	-22.36	peak
6	pp17325.000	17.84	43.19	36.14	27.10	51.99	74.00	-22.01	peak



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



Condition: 3m VERTICAL
Job No: : 04534CR
Mode: : 5775 TX RSE
: 5G WIFI-AC80

	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	4.07	24.46	38.08	48.83	39.28	74.00	-34.72	peak
2	1597.181	4.59	26.24	38.04	42.28	35.07	74.00	-38.93	peak
3	4405.090	7.18	33.60	38.20	43.35	45.93	74.00	-28.07	peak
4	11550.000	12.34	38.15	35.51	36.83	51.81	74.00	-22.19	peak
5	pp14916.940	14.83	41.15	38.91	35.31	52.38	74.00	-21.62	peak
6	17325.000	17.84	43.19	36.14	26.51	51.40	74.00	-22.60	peak

Remark:

1) 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

2) 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.



- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



7.8 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:

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.

7.8.1 E.U.T. Operation

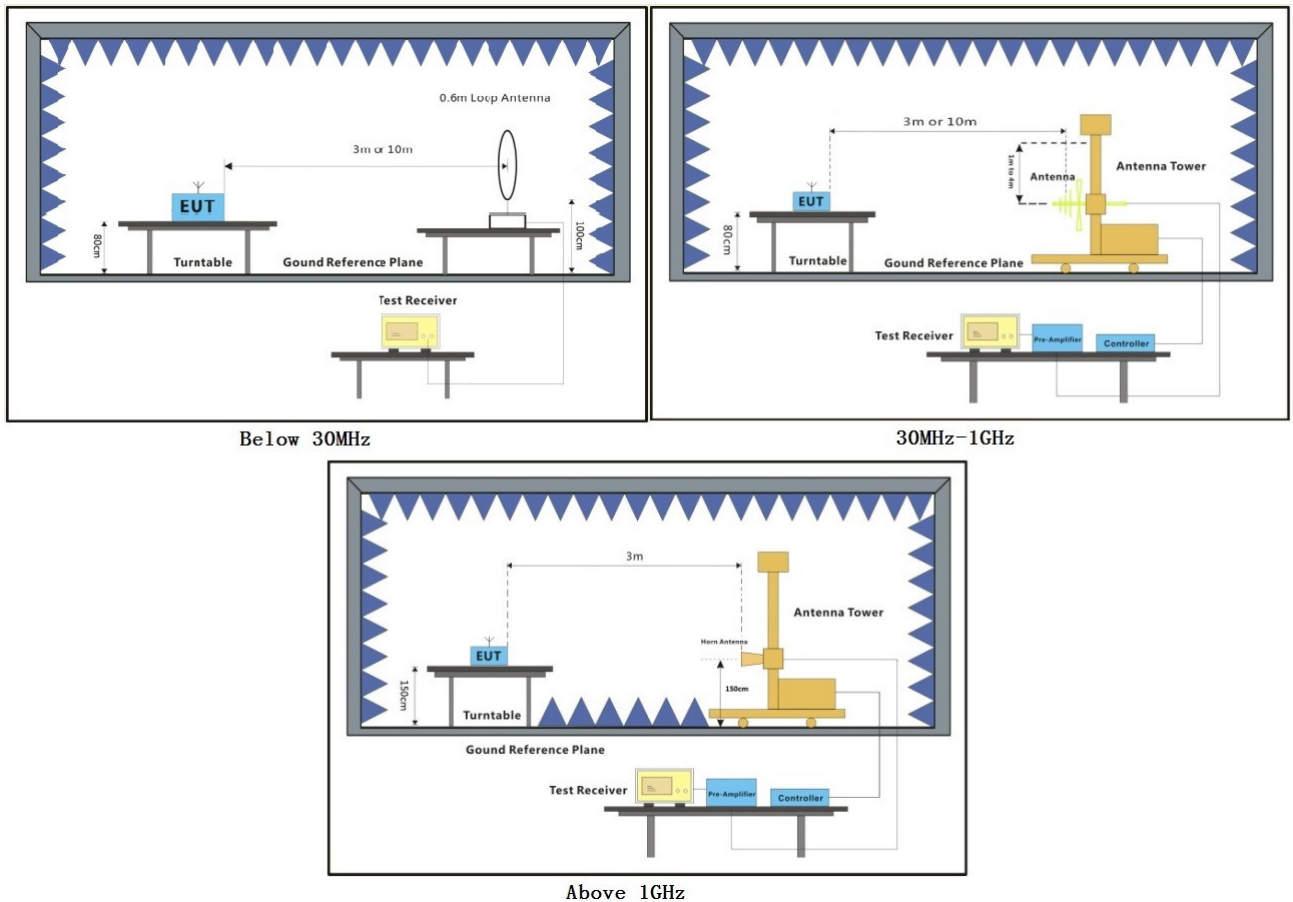
Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

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

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

7.8.2 Test Setup Diagram



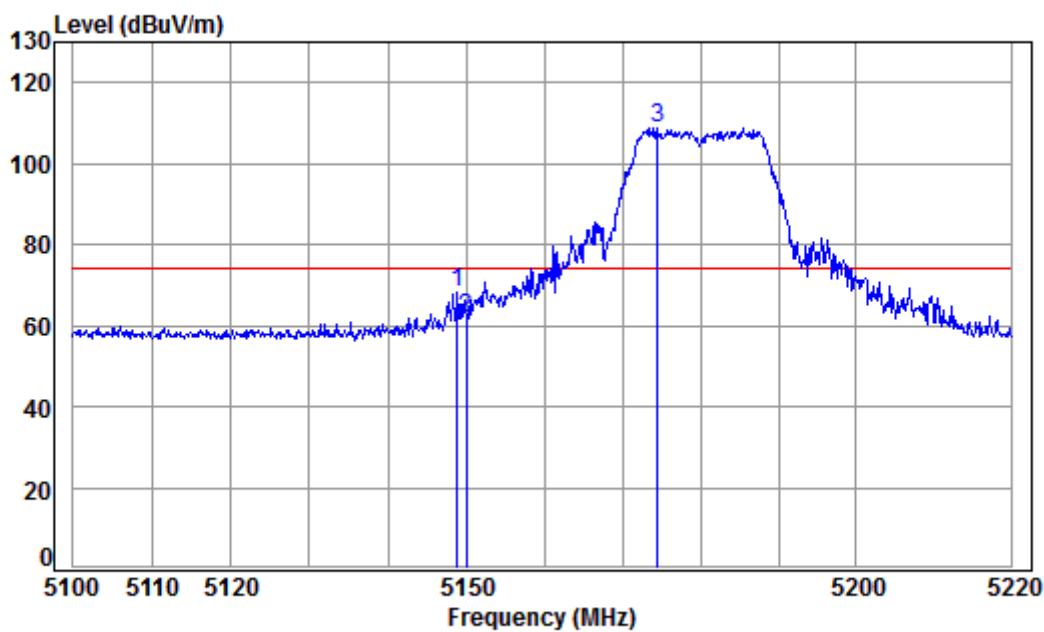


7.8.3 Measurement Procedure and Data

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

Remark: For 802.11a mode, the test was performed at SISO mode, and only the data of worst case (transmitting with antenna 1) is recorded in the report. For 802.11n and 802.11ac mode, the test was performed at MIMO mode.

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



Condition: 3m HORIZONTAL

Job No: : 04534CR

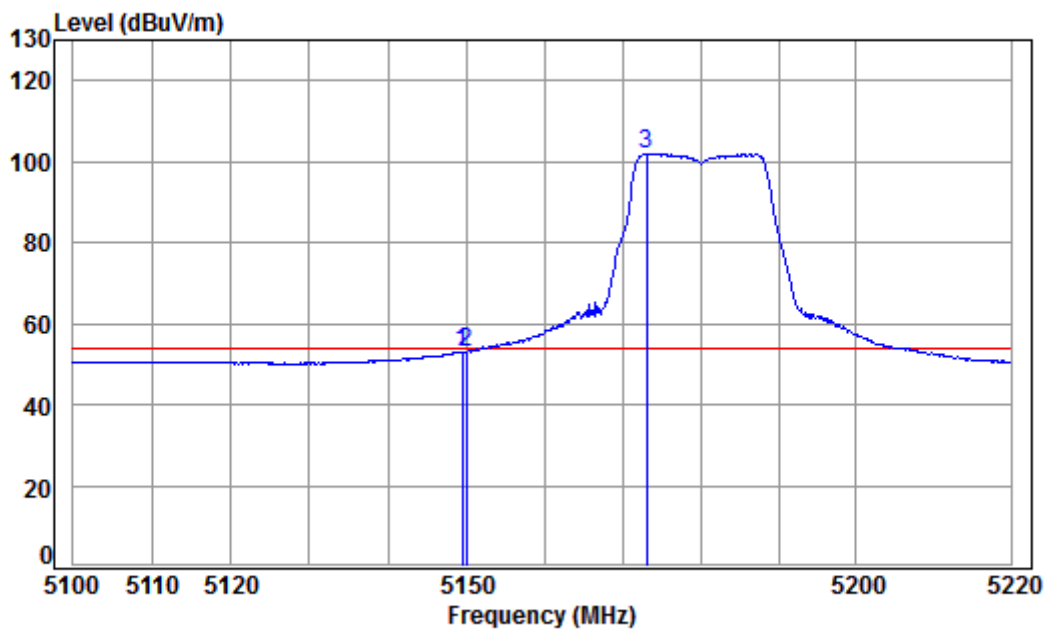
Mode: : 5180 Bandedge

: 5GWIFI-A

: Power=83

		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	5148.863	8.08	34.47	38.47	64.05	68.13	74.00	-5.87	peak
2	5150.000	8.08	34.47	38.47	57.46	61.54	74.00	-12.46	peak
3 pp	5174.432	8.09	34.46	38.47	104.60	108.68	74.00	34.68	peak

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



Condition: 3m HORIZONTAL

Job No: : 04534CR

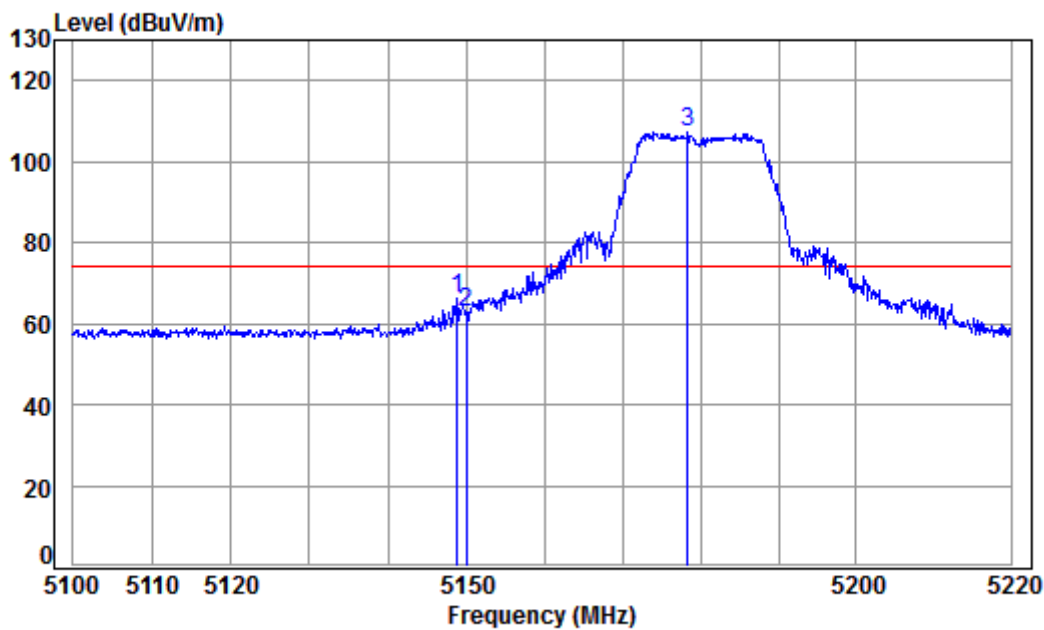
Mode: : 5180 Bandedge

: 5GWIFI-A

: Power=83

		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	5149.461	8.08	34.47	38.47	48.89	52.97	54.00	-1.03 Average
2	5150.000	8.08	34.47	38.47	48.79	52.87	54.00	-1.13 Average
3 pp	5173.108	8.09	34.46	38.47	97.92	102.00	54.00	48.00 Average

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



Condition: 3m VERTICAL

Job No: : 04534CR

Mode: : 5180 Bandedge

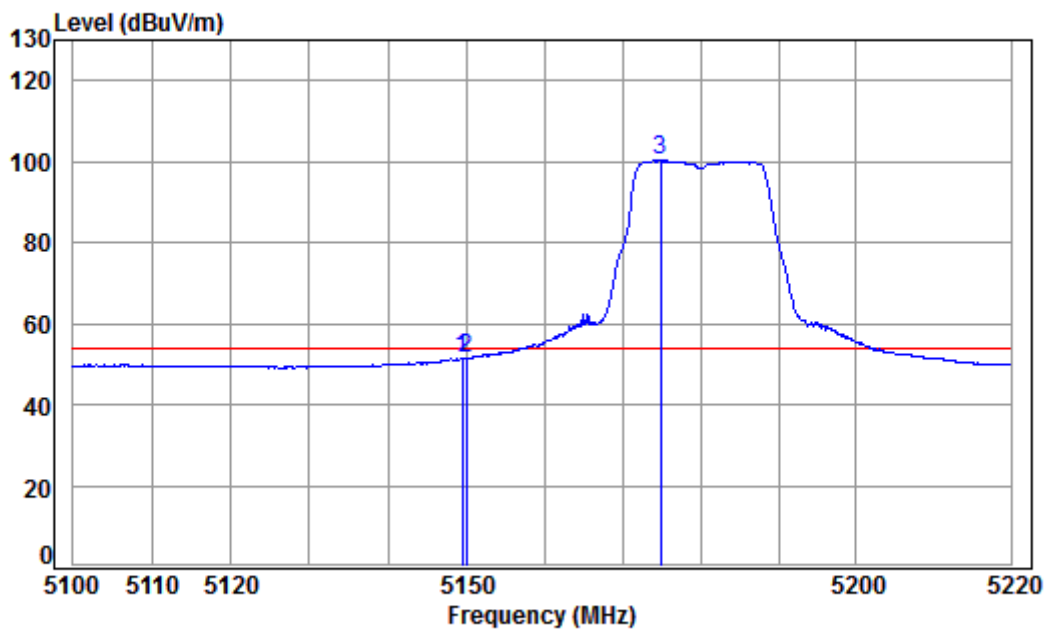
: 5GWIFI-A

: Power=83

		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	5148.863	8.08	34.47	38.47	62.15	66.23	74.00	-7.77	Peak
2	5150.000	8.08	34.47	38.47	58.83	62.91	74.00	-11.09	Peak
3 pp	5178.284	8.09	34.46	38.46	103.31	107.40	74.00	33.40	Peak



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

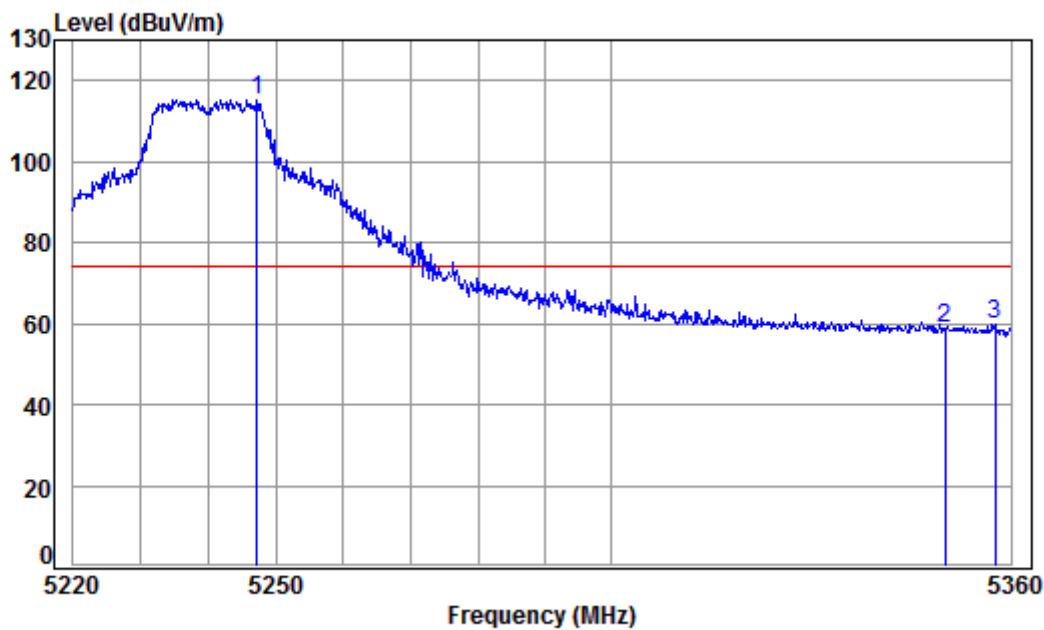


Condition: 3m VERTICAL
Job No: : 04534CR
Mode: : 5180 Bandedge
: 5GWIFI-A
: Power=83

	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	5149.461	8.08	34.47	38.47	47.29	51.37	54.00	-2.63	Average
2	5150.000	8.08	34.47	38.47	47.32	51.40	54.00	-2.60	Average
3 pp	5174.793	8.09	34.46	38.47	96.08	100.16	54.00	46.16	Average



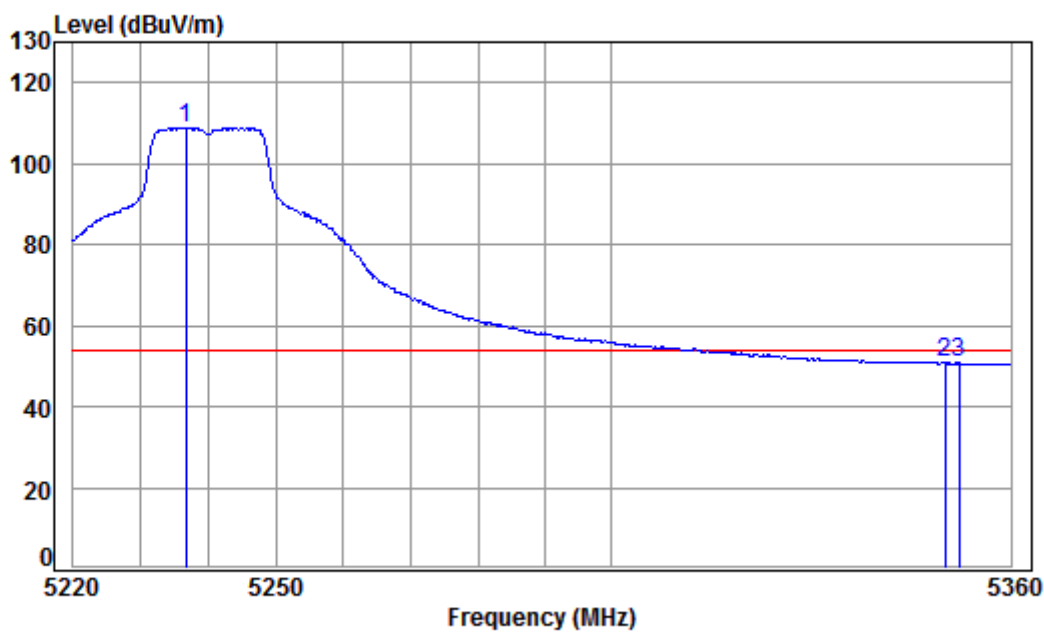
Mode:b; Polarization:Horizontal; Modulation Type:802.11a; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No: : 04534CR
Mode: : 5240 Bandedge
: 5GWIFI-A
: Power=90

		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 pp	5247.149	8.13	34.45	38.45	111.26	115.39	74.00	41.39 peak
2	5350.000	8.18	34.43	38.43	54.44	58.62	74.00	-15.38 peak
3	5357.589	8.18	34.43	38.43	55.72	59.90	74.00	-14.10 peak

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



Condition: 3m HORIZONTAL

Job No: : 04534CR

Mode: : 5240 Bandedge

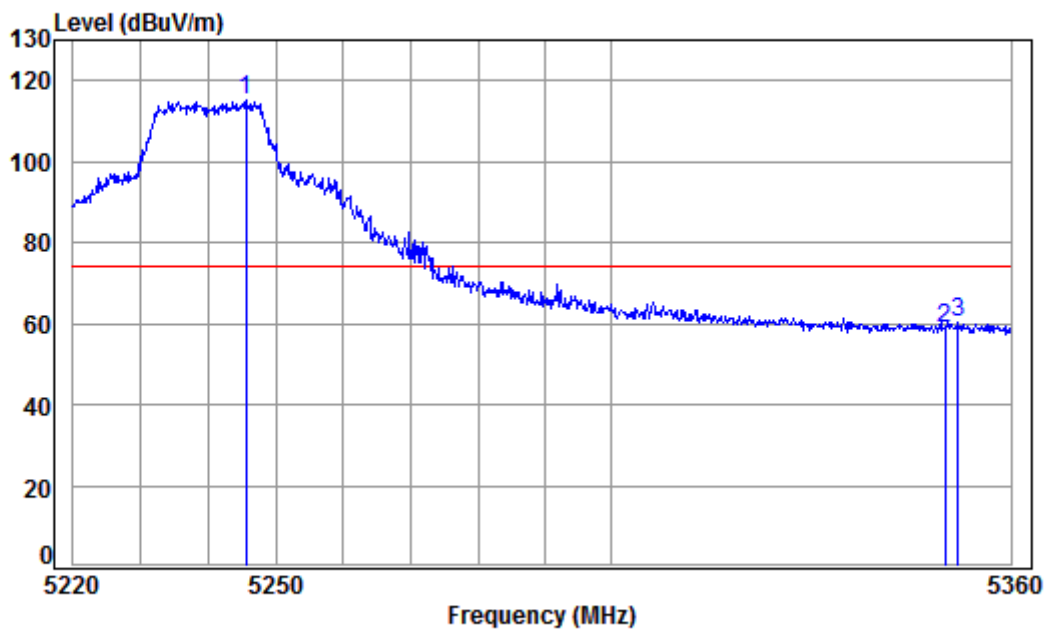
: 5GWIFI-A

: Power=90

		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 pp	5236.605	8.12	34.45	38.45	104.66	108.78	54.00	54.78 Average
2	5350.000	8.18	34.43	38.43	46.50	50.68	54.00	-3.32 Average
3	5352.203	8.18	34.43	38.43	46.57	50.75	54.00	-3.25 Average



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

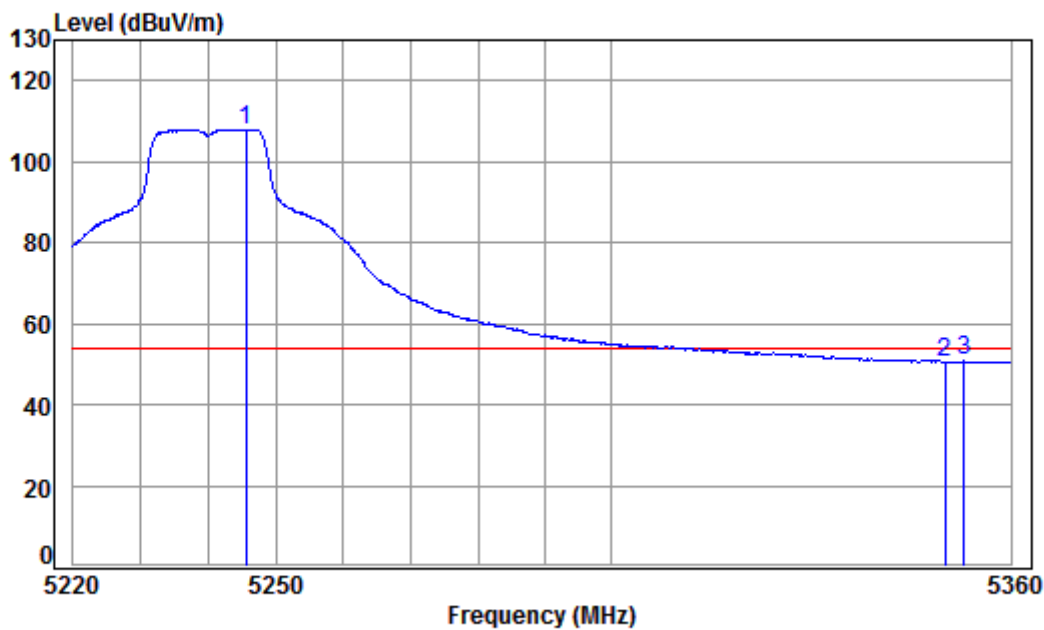


Condition: 3m VERTICAL
Job No: : 04534CR
Mode: : 5240 Bandedge
: 5GWIFI-A
: Power=90

		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 pp	5245.482	8.13	34.45	38.45	110.80	114.93	74.00	40.93 Peak
2	5350.000	8.18	34.43	38.43	54.77	58.95	74.00	-15.05 Peak
3	5352.062	8.18	34.43	38.43	55.96	60.14	74.00	-13.86 Peak



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

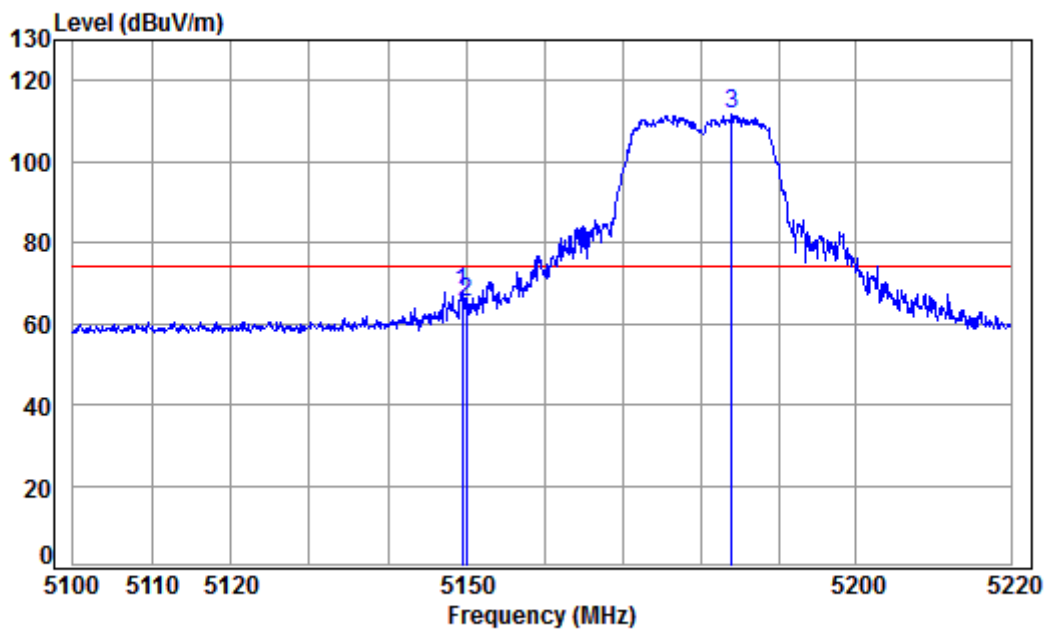


Condition: 3m VERTICAL
Job No: : 04534CR
Mode: : 5240 Bandedge
: 5GWIFI-A
: Power=90

		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 pp	5245.482	8.13	34.45	38.45	103.81	107.94	54.00	53.94	Average
2	5350.000	8.18	34.43	38.43	46.38	50.56	54.00	-3.44	Average
3	5352.912	8.18	34.43	38.43	46.50	50.68	54.00	-3.32	Average



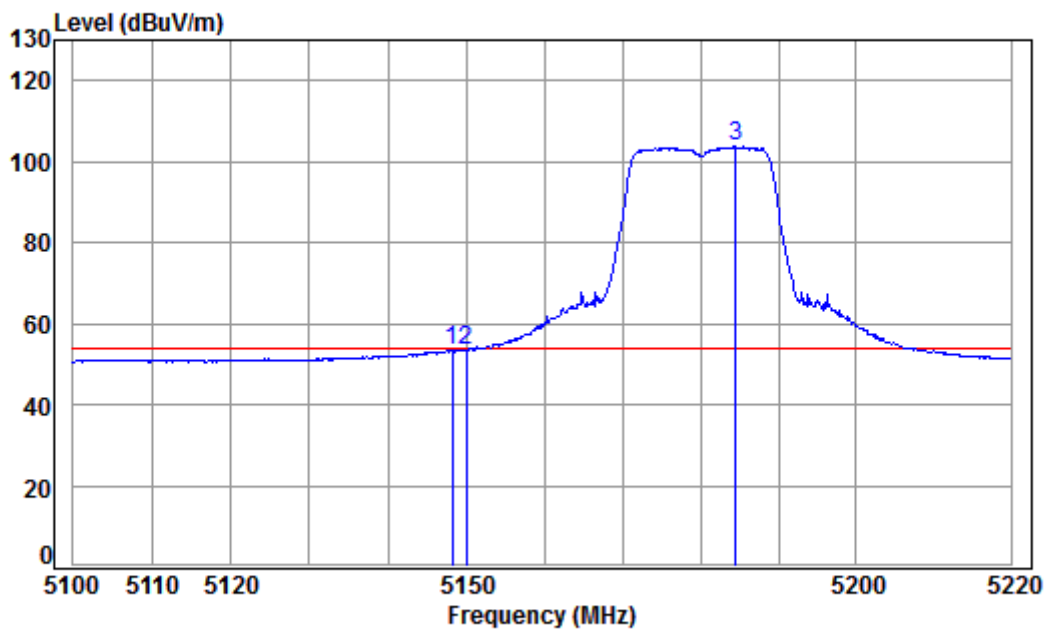
Mode:b; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No: : 04534CR
Mode: : 5180 Bandedge
: 5GWIFI-N20
: Power=78

	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	5149.461	8.08	34.47	38.47	63.76	67.84	74.00	-6.16	peak
2	5150.000	8.08	34.47	38.47	61.06	65.14	74.00	-8.86	peak
3 pp	5183.948	8.09	34.46	38.46	107.65	111.74	74.00	37.74	peak

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



Condition: 3m HORIZONTAL

Job No: : 04534CR

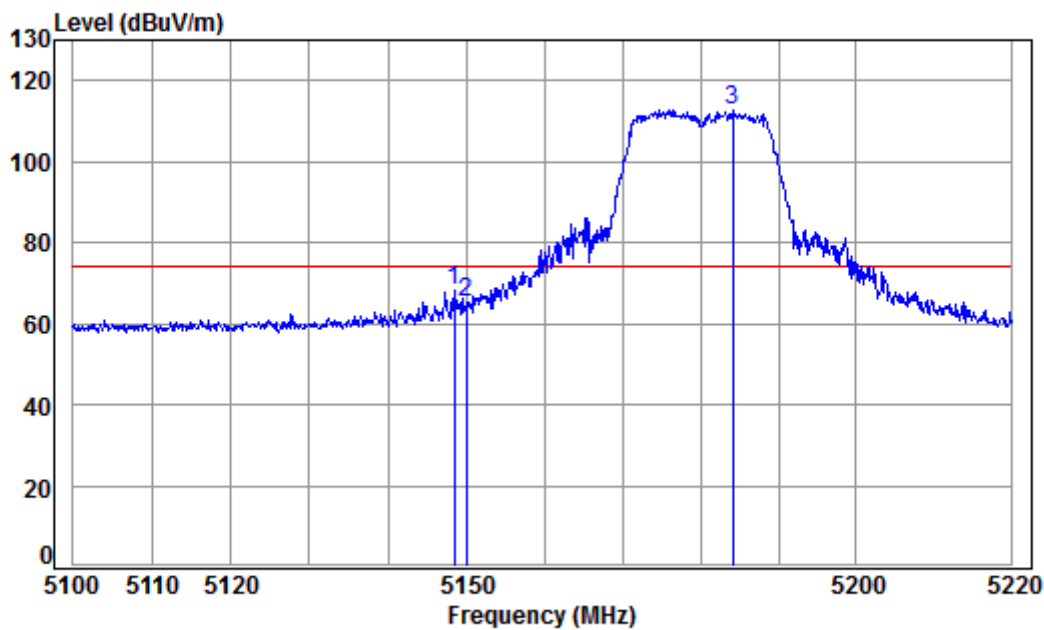
Mode: : 5180 Bandedge

: 5GWIFI-N20

: Power=78

		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	8.08	34.47	38.47	49.50	53.58	54.00	-0.42	Average
2	5150.000	8.08	34.47	38.47	49.55	53.63	54.00	-0.37	Average
3 pp	5184.550	8.10	34.46	38.46	99.58	103.68	54.00	49.68	Average

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



Condition: 3m VERTICAL

Job No: : 04534CR

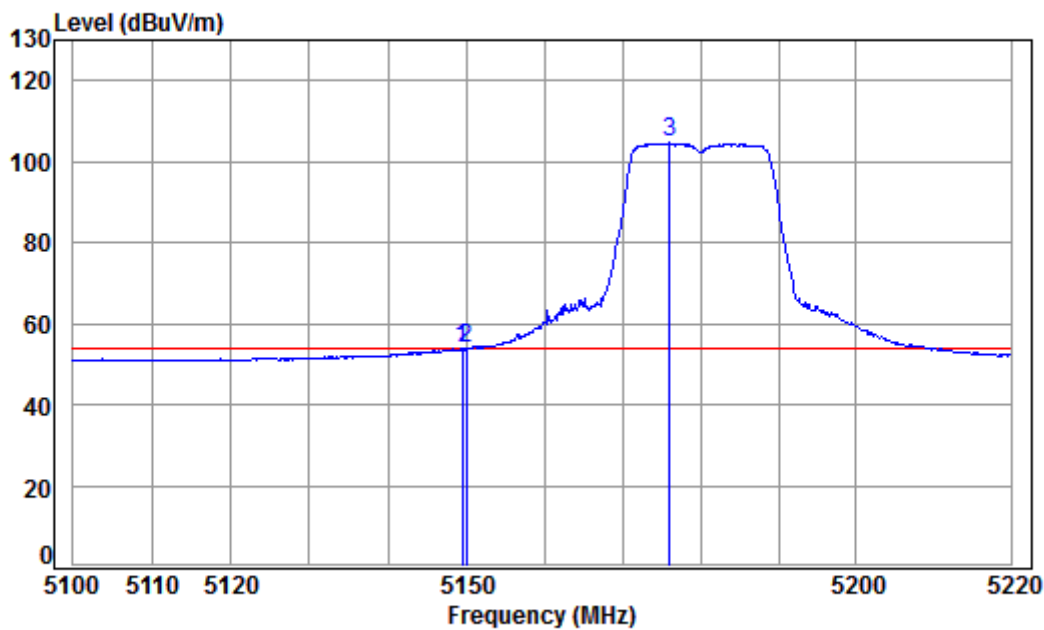
Mode: : 5180 Bandedge

: 5GWIFI-N20

: Power=78

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.503	8.08	34.47	38.47	64.10	68.18	74.00	-5.82	Peak
2	5150.000	8.08	34.47	38.47	61.13	65.21	74.00	-8.79	Peak
3 pp	5184.068	8.09	34.46	38.46	108.78	112.87	74.00	38.87	Peak

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



Condition: 3m VERTICAL

Job No: : 04534CR

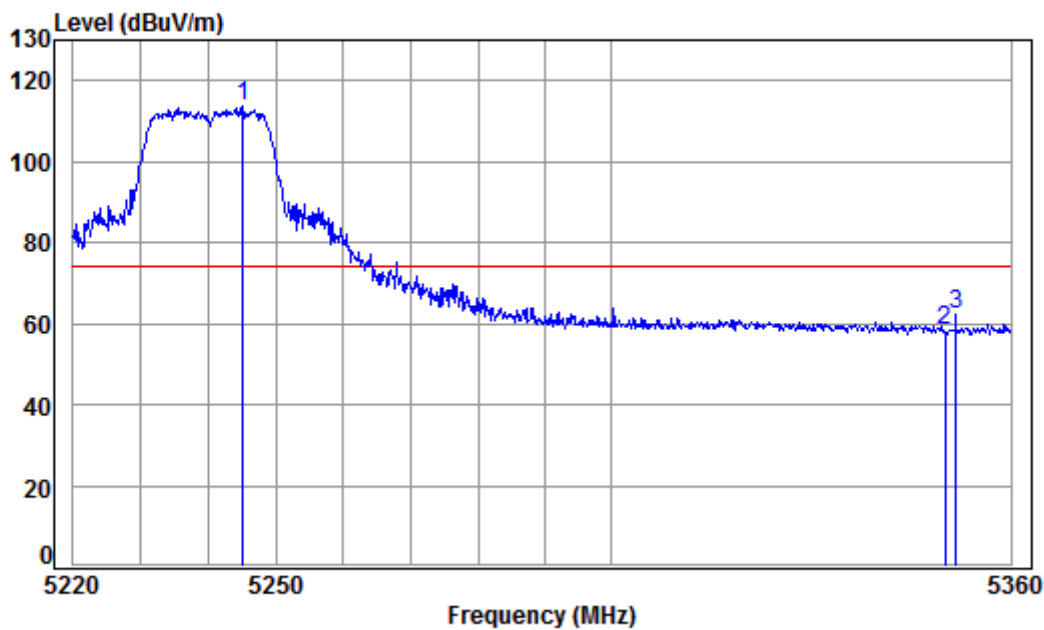
Mode: : 5180 Bandedge

: 5GWIFI-N20

: Power=78

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.461	8.08	34.47	38.47	49.80	53.88	54.00	-0.12	Average
2	5150.000	8.08	34.47	38.47	49.58	53.66	54.00	-0.34	Average
3 pp	5175.997	8.09	34.46	38.46	100.53	104.62	54.00	50.62	Average

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



Condition: 3m HORIZONTAL

Job No: : 04534CR

Mode: : 5240 Bandedge

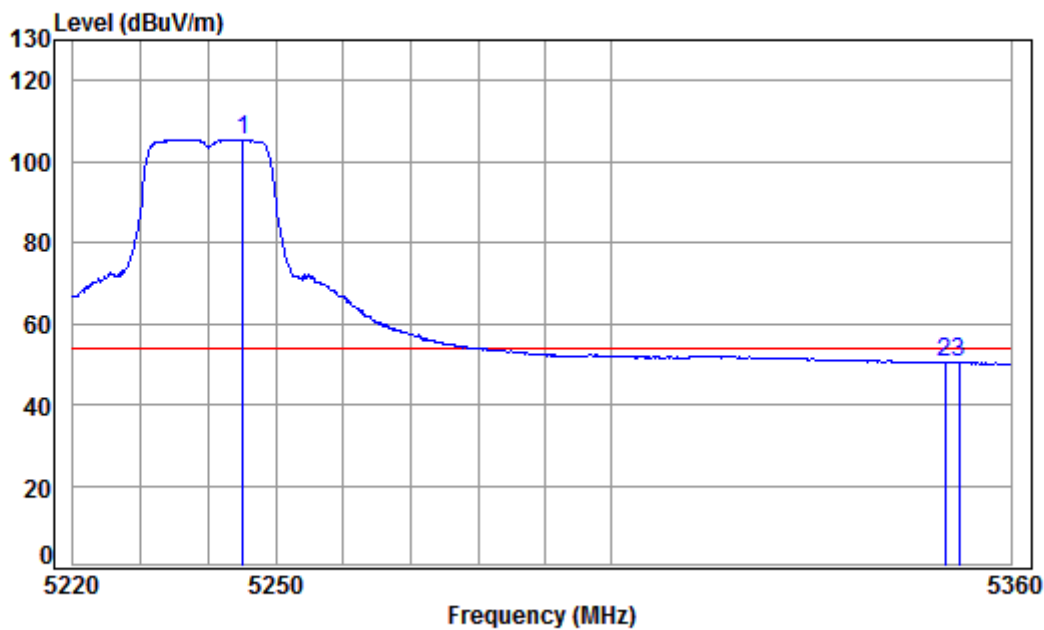
: 5GWIFI-N20

: Power=85

		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 pp	5245.066	8.13	34.45	38.45	109.71	113.84	74.00	39.84	peak
2	5350.000	8.18	34.43	38.43	53.96	58.14	74.00	-15.86	peak
3	5351.637	8.18	34.43	38.43	57.87	62.05	74.00	-11.95	peak



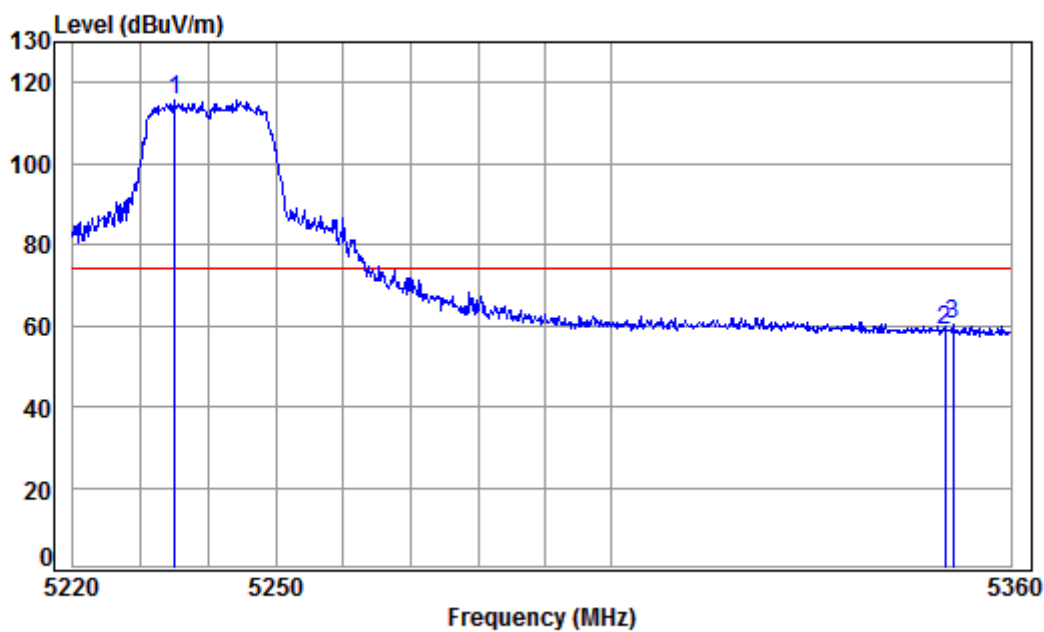
Mode:b; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No: : 04534CR
Mode: : 5240 Bandedge
: 5GWIFI-N20
: Power=85

		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 pp	5245.066	8.13	34.45	38.45	101.37	105.50	54.00	51.50 Average
2	5350.000	8.18	34.43	38.43	46.16	50.34	54.00	-3.66 Average
3	5352.203	8.18	34.43	38.43	46.26	50.44	54.00	-3.56 Average

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



Condition: 3m VERTICAL

Job No: : 04534CR

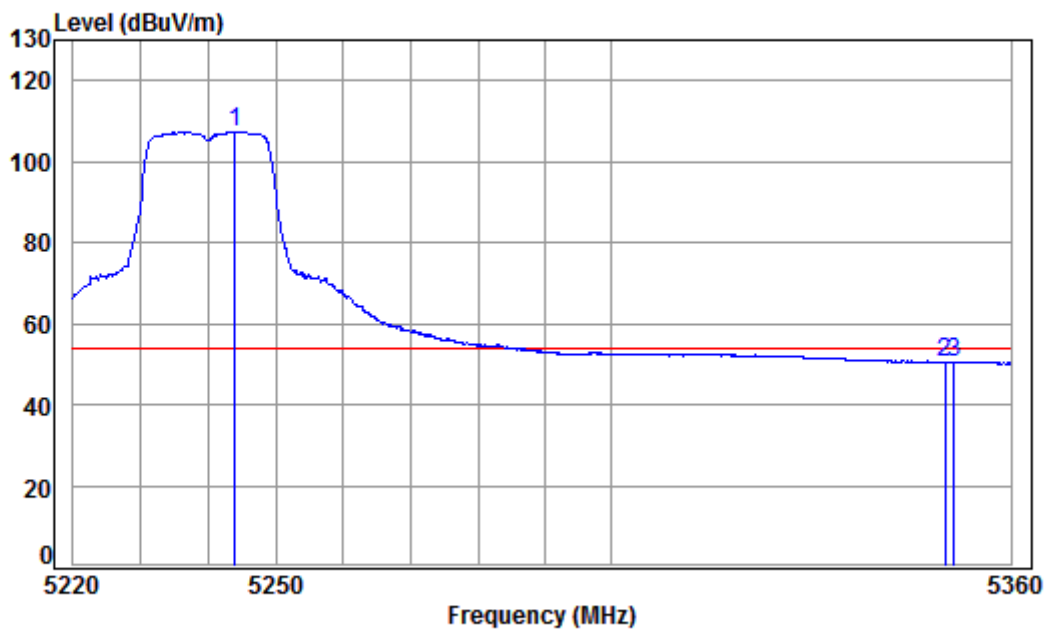
Mode: : 5240 Bandedge

: 5GWIFI-N20

: Power=85

		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 pp	5235.081	8.12	34.45	38.45	111.47	115.59	74.00	41.59	Peak
2	5350.000	8.18	34.43	38.43	54.59	58.77	74.00	-15.23	Peak
3	5351.212	8.18	34.43	38.43	56.36	60.54	74.00	-13.46	Peak

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



Condition: 3m VERTICAL

Job No: : 04534CR

Mode: : 5240 Bandedge

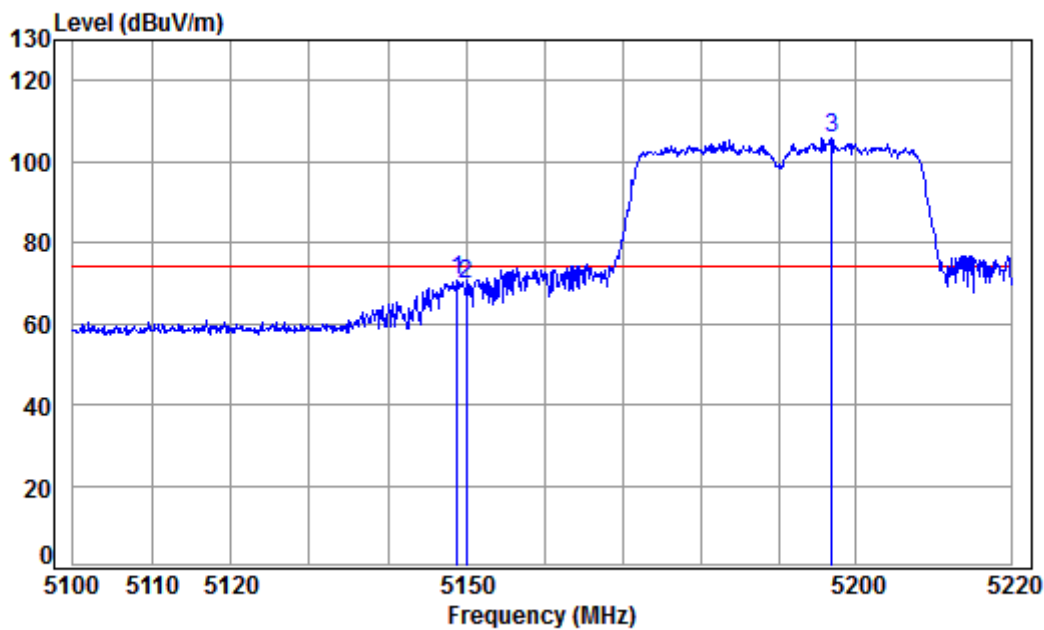
: 5GWIFI-N20

: Power=85

		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 pp	5243.956	8.12	34.45	38.45	103.33	107.45	54.00	53.45 Average
2	5350.000	8.18	34.43	38.43	46.23	50.41	54.00	-3.59 Average
3	5351.354	8.18	34.43	38.43	46.33	50.51	54.00	-3.49 Average



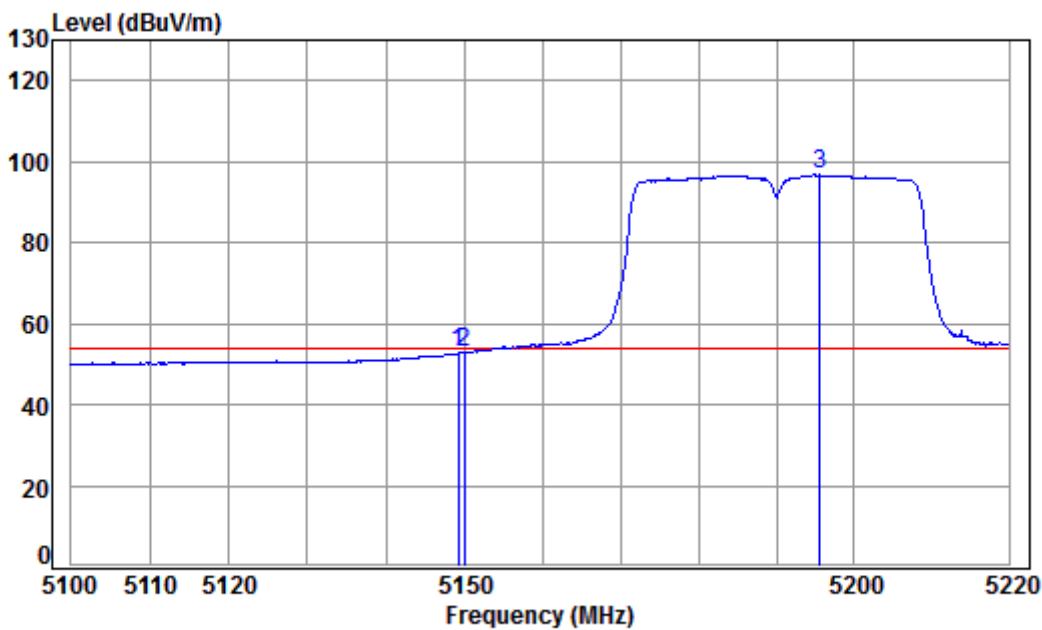
Mode:b; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No: : 04534CR
Mode: : 5190 Bandedge
: 5GWIFI-N40
: Power=64

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.863	8.08	34.47	38.47	66.48	70.56	74.00	-3.44	peak
2	5150.000	8.08	34.47	38.47	65.59	69.67	74.00	-4.33	peak
3 pp	5196.864	8.10	34.46	38.46	101.74	105.84	74.00	31.84	peak

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



Condition: 3m HORIZONTAL

Job No: : 04534CR

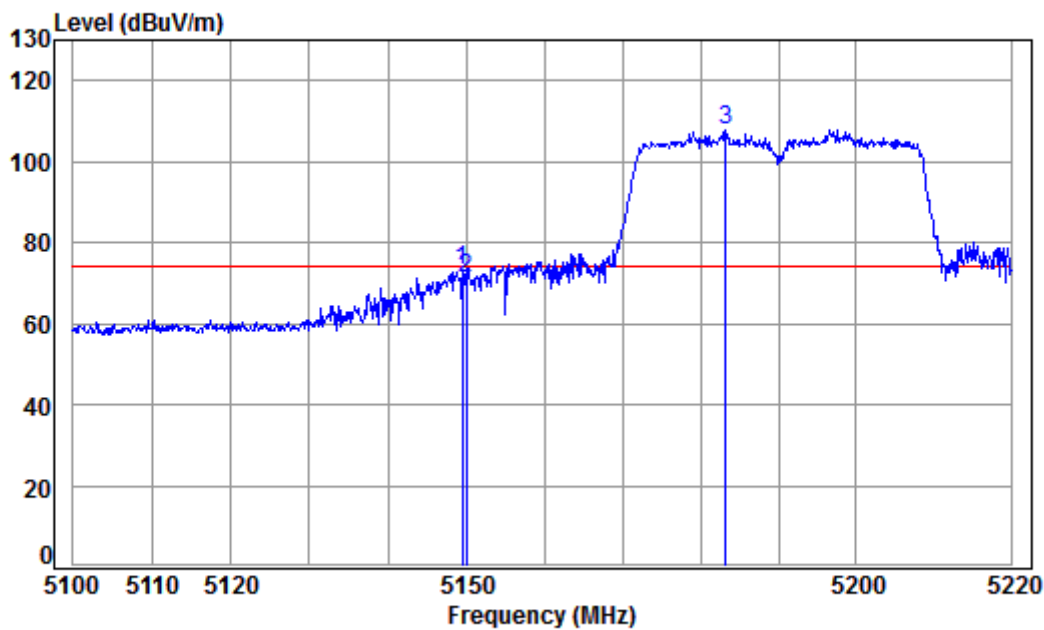
Mode: : 5190 Bandedge

: 5GWIFI-N40

: Power=64

	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	5149.222	8.08	34.47	38.47	48.71	52.79	54.00	-1.21	Average
2	5150.000	8.08	34.47	38.47	48.65	52.73	54.00	-1.27	Average
3 pp	5195.535	8.10	34.46	38.46	92.62	96.72	54.00	42.72	Average

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



Condition: 3m VERTICAL

Job No: : 04534CR

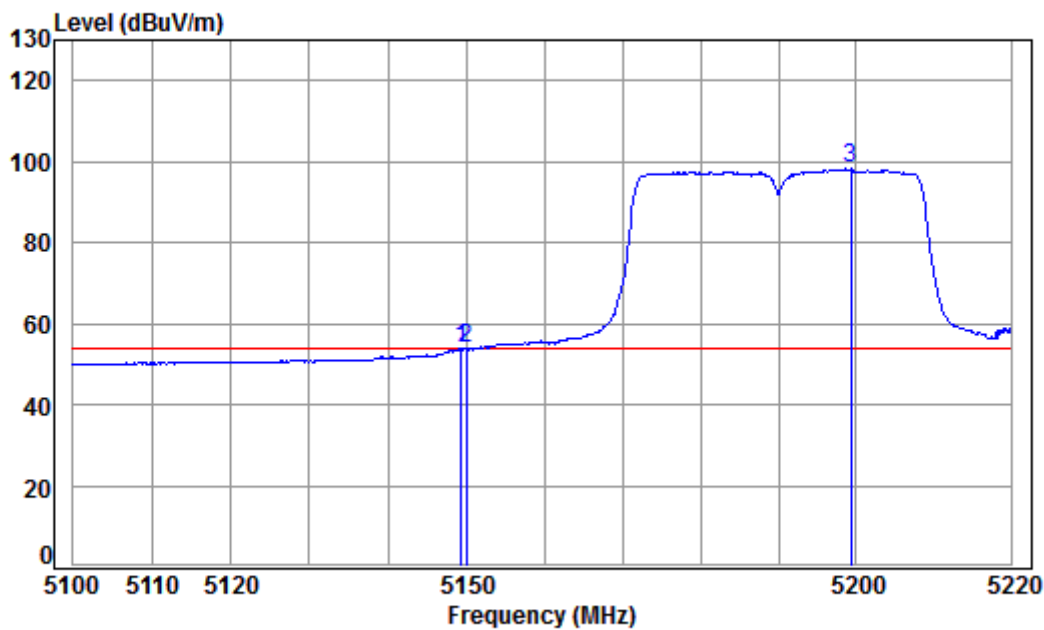
Mode: : 5190 Bandedge

: 5GWIFI-N40

: Power=64

		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	5149.461	8.08	34.47	38.47	68.97	73.05	74.00	-0.95	Peak
2	5150.000	8.08	34.47	38.47	67.28	71.36	74.00	-2.64	Peak
3 pp	5183.224	8.09	34.46	38.46	103.73	107.82	74.00	33.82	Peak

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



Condition: 3m VERTICAL

Job No: : 04534CR

Mode: : 5190 Bandedge

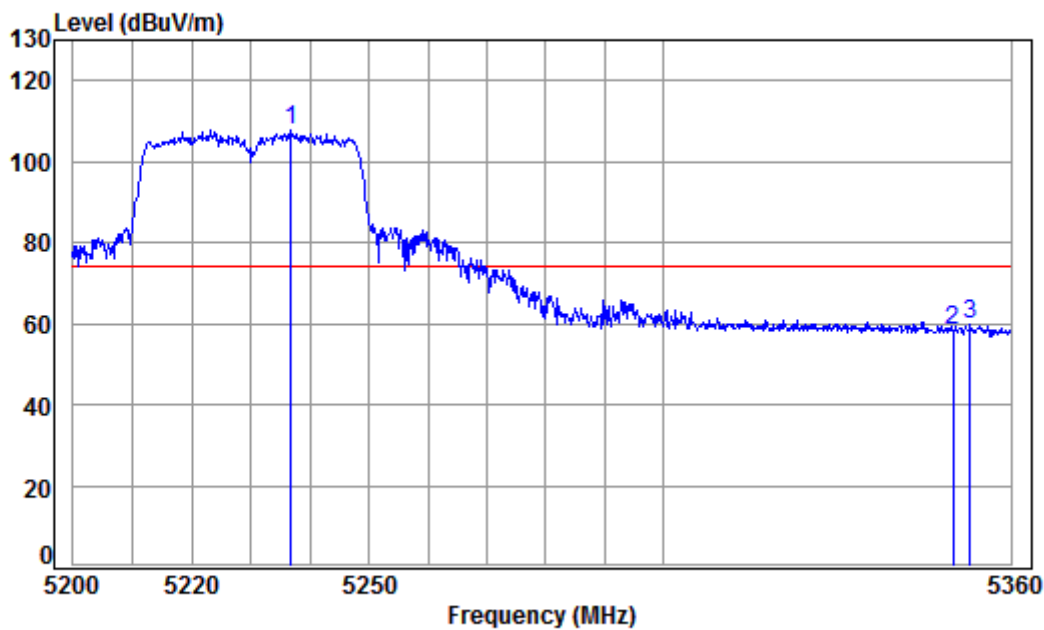
: 5GWIFI-N40

: Power=64

	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	5149.342	8.08	34.47	38.47	49.65	53.73	54.00	-0.27	Average
2	5150.000	8.08	34.47	38.47	49.60	53.68	54.00	-0.32	Average
3 pp	5199.282	8.10	34.46	38.46	94.05	98.15	54.00	44.15	Average



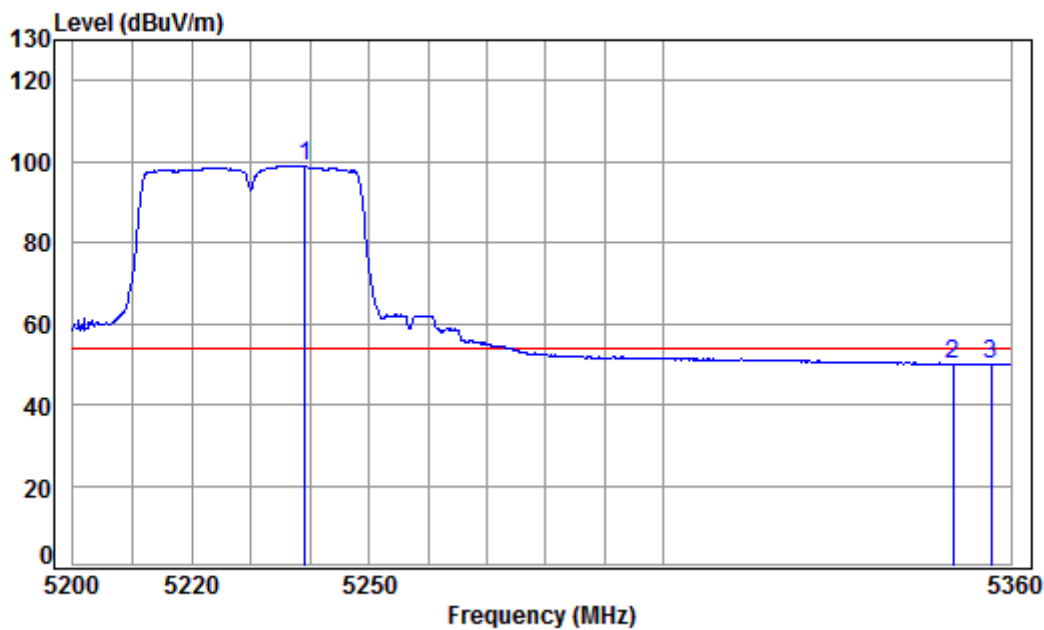
Mode:b; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No: : 04534CR
Mode: : 5230 Bandedge
: 5GWIFI-N40
: Power=72

		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 pp	5236.689	8.12	34.45	38.45	103.73	107.85	74.00	33.85 peak
2	5350.000	8.18	34.43	38.43	54.14	58.32	74.00	-15.68 peak
3	5353.020	8.18	34.43	38.43	55.69	59.87	74.00	-14.13 peak

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



Condition: 3m HORIZONTAL

Job No: : 04534CR

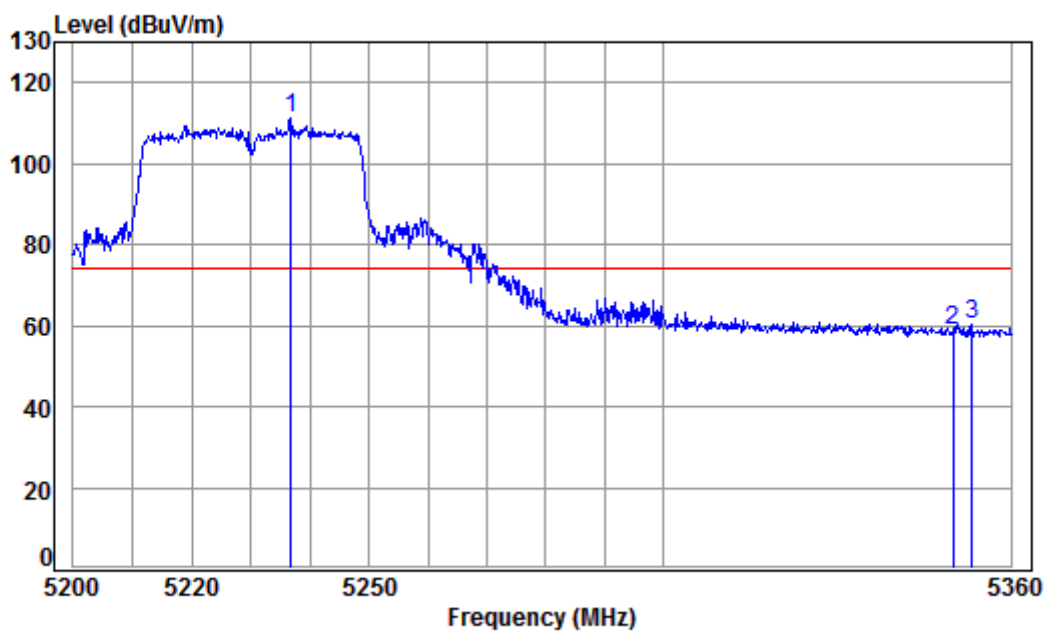
Mode: : 5230 Bandedge

: 5GWIFI-N40

: Power=72

		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 pp	5239.070	8.12	34.45	38.45	94.64	98.76	54.00	44.76 Average
2	5350.000	8.18	34.43	38.43	45.78	49.96	54.00	-4.04 Average
3	5356.590	8.18	34.43	38.43	45.97	50.15	54.00	-3.85 Average

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



Condition: 3m VERTICAL

Job No: : 04534CR

Mode: : 5230 Bandedge

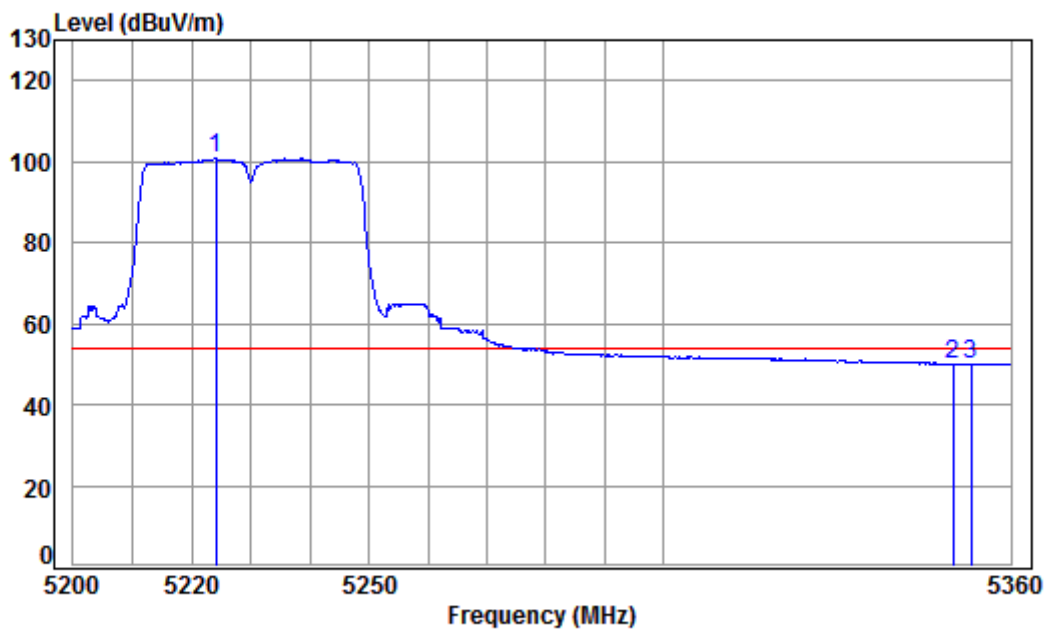
: 5GWIFI-N40

: Power=72

		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 pp	5236.848	8.12	34.45	38.45	106.94	111.06	74.00	37.06	Peak
2	5350.000	8.18	34.43	38.43	54.42	58.60	74.00	-15.40	Peak
3	5353.344	8.18	34.43	38.43	56.10	60.28	74.00	-13.72	Peak



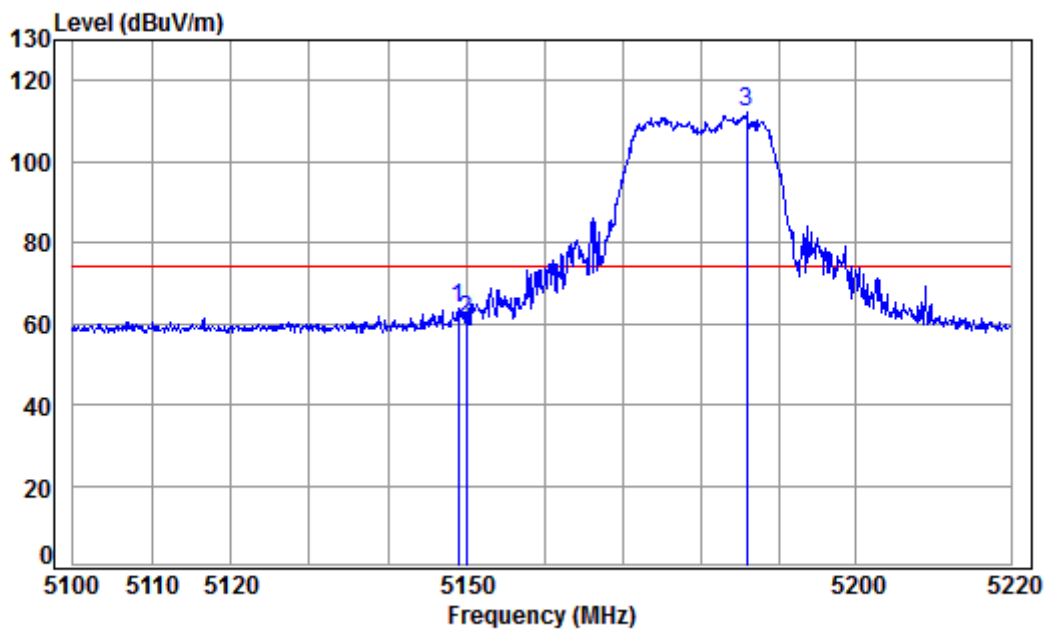
Mode:b; Polarization:Vertical; Modulation Type:802.11n; bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No: : 04534CR
Mode: : 5230 Bandedge
: 5GWIFI-N40
: Power=72

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5224.009	8.11	34.45	38.46	96.65	100.75	54.00	46.75 Average
2	5350.000	8.18	34.43	38.43	45.83	50.01	54.00	-3.99 Average
3	5353.182	8.18	34.43	38.43	45.95	50.13	54.00	-3.87 Average

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



Condition: 3m HORIZONTAL

Job No: : 04534CR

Mode: : 5180 Bandedge

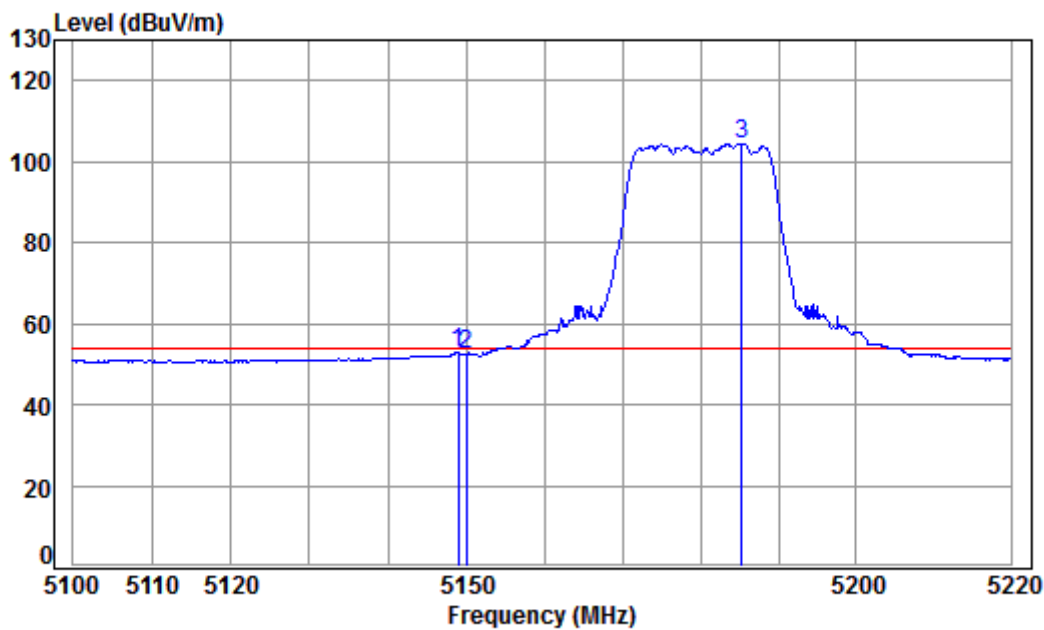
: 5GWIFI-AC20

: Power=72

		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	8.08	34.47	38.47	59.83	63.91	74.00	-10.09	peak
2	5150.000	8.08	34.47	38.47	56.58	60.66	74.00	-13.34	peak
3 pp	5185.877	8.10	34.46	38.46	108.10	112.20	74.00	38.20	peak



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

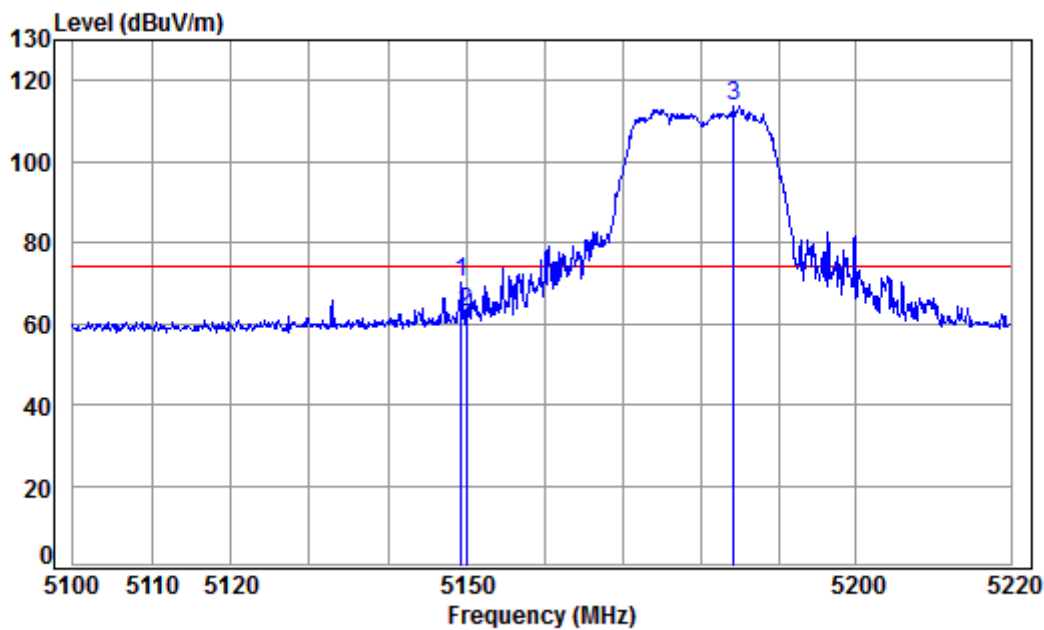


Condition: 3m HORIZONTAL
Job No: : 04534CR
Mode: : 5180 Bandedge
: 5GWIFI-AC20
: Power=72

	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	5148.982	8.08	34.47	38.47	48.82	52.90	54.00	-1.10	Average
2	5150.000	8.08	34.47	38.47	48.30	52.38	54.00	-1.62	Average
3 pp	5185.274	8.10	34.46	38.46	100.32	104.42	54.00	50.42	Average



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

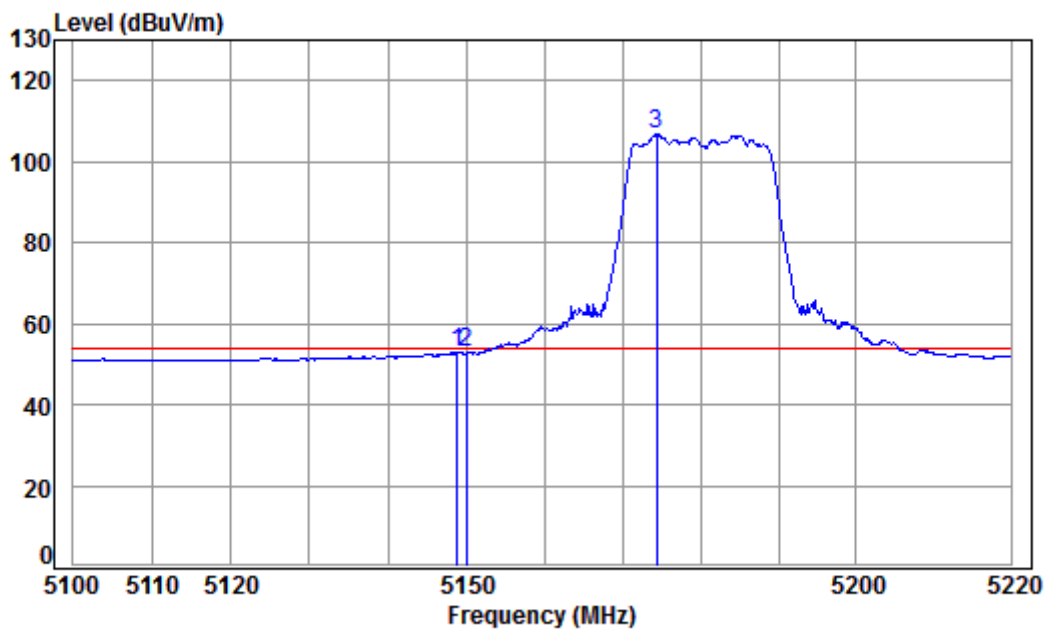


Condition: 3m VERTICAL
Job No: : 04534CR
Mode: : 5180 Bandedge
: 5GWIFI-AC20
: Power=72

		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	8.08	34.47	38.47	66.33	70.41	74.00	-3.59 Peak
2	5150.000	8.08	34.47	38.47	58.73	62.81	74.00	-11.19 Peak
3 pp	5184.310	8.09	34.46	38.46	109.75	113.84	74.00	39.84 Peak



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

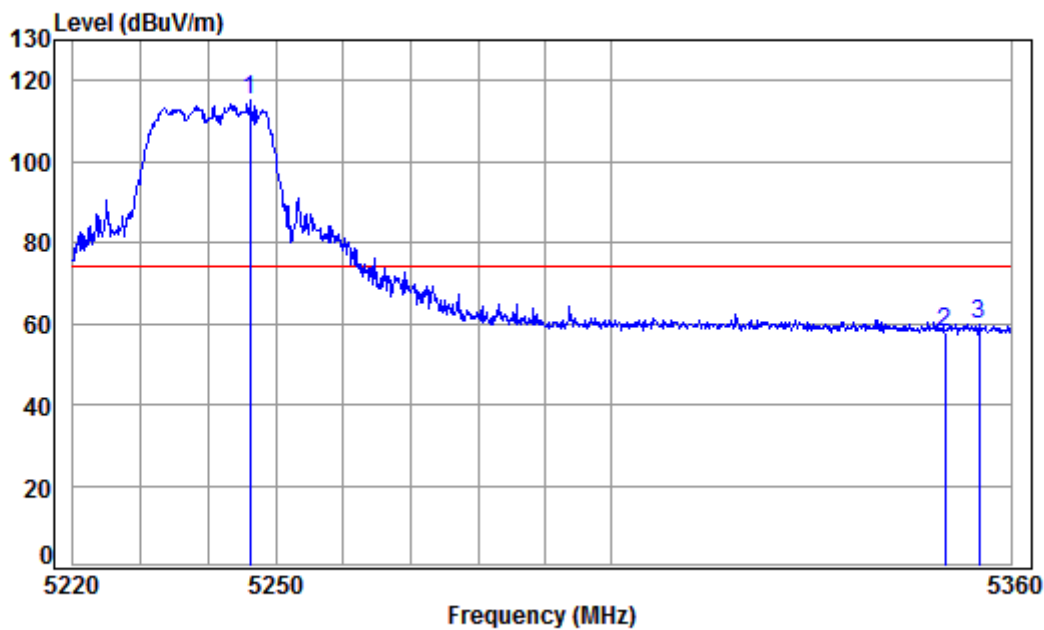


Condition: 3m VERTICAL
Job No: : 04534CR
Mode: : 5180 Bandedge
: 5GWIFI-AC20
: Power=72

	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	5148.863	8.08	34.47	38.47	48.86	52.94	54.00	-1.06	Average
2	5150.000	8.08	34.47	38.47	48.75	52.83	54.00	-1.17	Average
3 pp	5174.312	8.09	34.46	38.47	102.66	106.74	54.00	52.74	Average



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

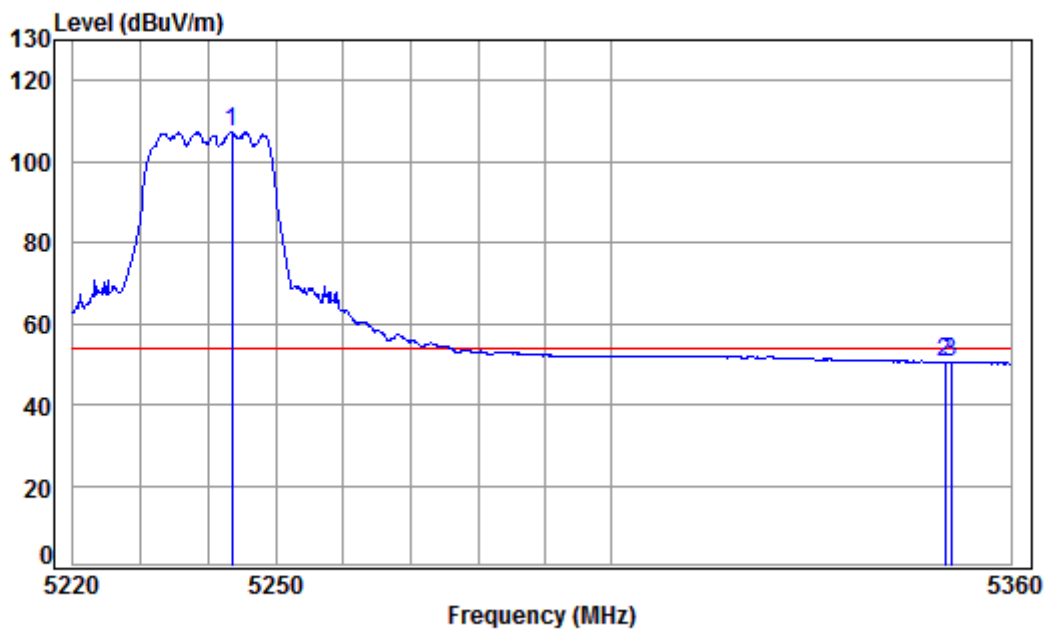


Condition: 3m HORIZONTAL
Job No: : 04534CR
Mode: : 5240 Bandedge
: 5GWIFI-AC20
: Power=80

		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 pp	5246.177	8.13	34.45	38.45	110.82	114.95	74.00	40.95 peak
2	5350.000	8.18	34.43	38.43	53.68	57.86	74.00	-16.14 peak
3	5355.179	8.18	34.43	38.43	55.85	60.03	74.00	-13.97 peak



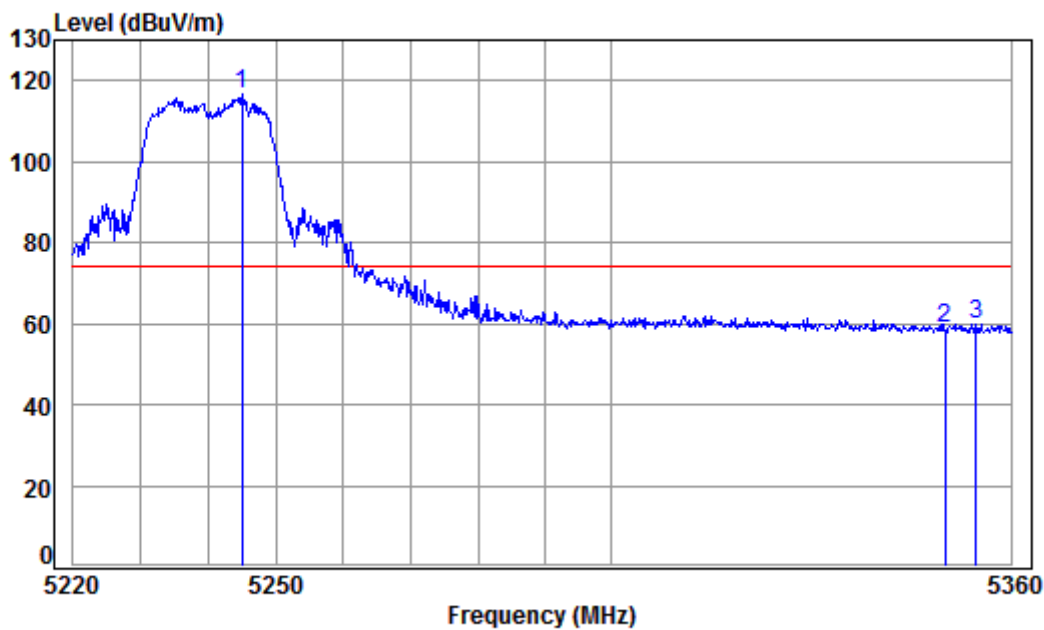
Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No: : 04534CR
Mode: : 5240 Bandedge
: 5GWIFI-AC20
: Power=80

		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 pp	5243.540	8.12	34.45	38.45	103.24	107.36	54.00	53.36 Average
2	5350.000	8.18	34.43	38.43	46.29	50.47	54.00	-3.53 Average
3	5350.929	8.18	34.43	38.43	46.29	50.47	54.00	-3.53 Average

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



Condition: 3m VERTICAL

Job No: : 04534CR

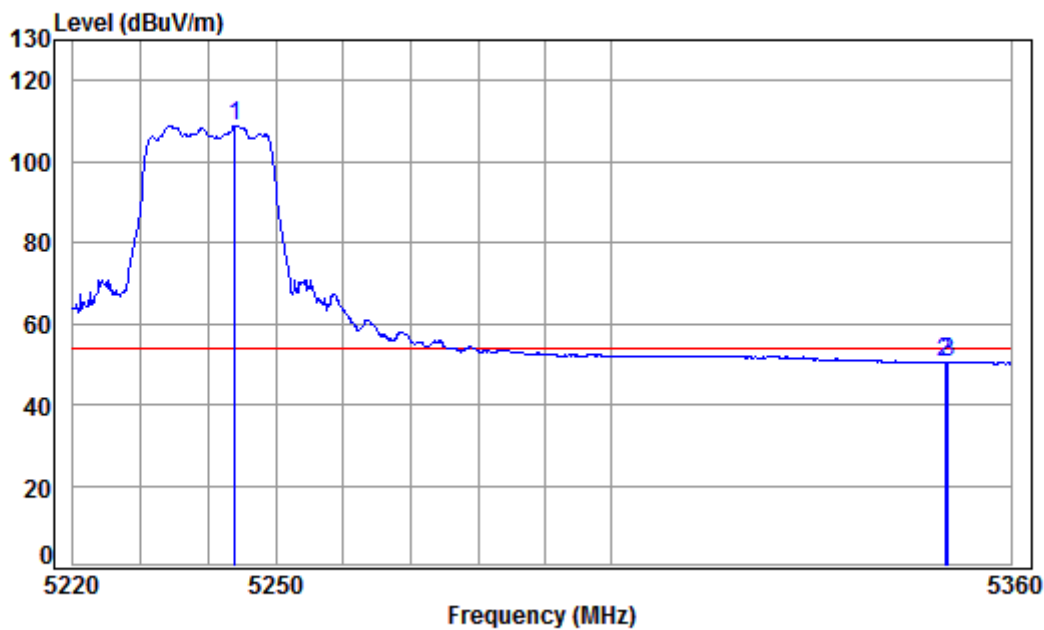
Mode: : 5240 Bandedge

: 5GWIFI-AC20

: Power=80

		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 pp	5244.927	8.13	34.45	38.45	112.45	116.58	74.00	42.58	Peak
2	5350.000	8.18	34.43	38.43	54.85	59.03	74.00	-14.97	Peak
3	5354.754	8.18	34.43	38.43	55.86	60.04	74.00	-13.96	Peak

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



Condition: 3m VERTICAL

Job No: : 04534CR

Mode: : 5240 Bandedge

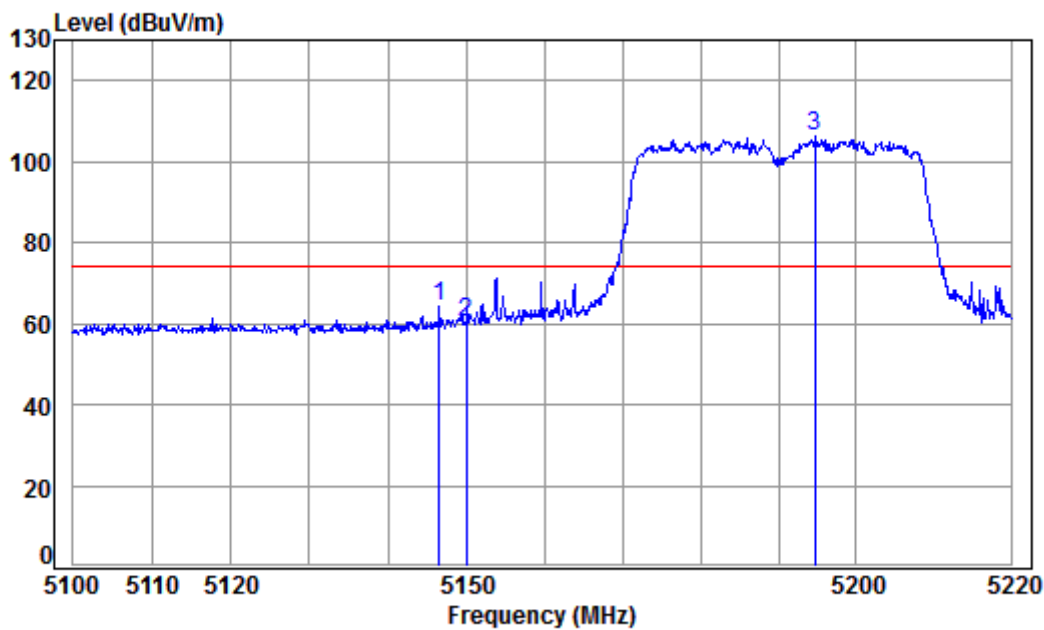
: 5GWIFI-AC20

: Power=80

		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 pp	5243.956	8.12	34.45	38.45	104.70	108.82	54.00	54.82 Average
2	5350.000	8.18	34.43	38.43	46.23	50.41	54.00	-3.59 Average
3	5350.504	8.18	34.43	38.43	46.29	50.47	54.00	-3.53 Average



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

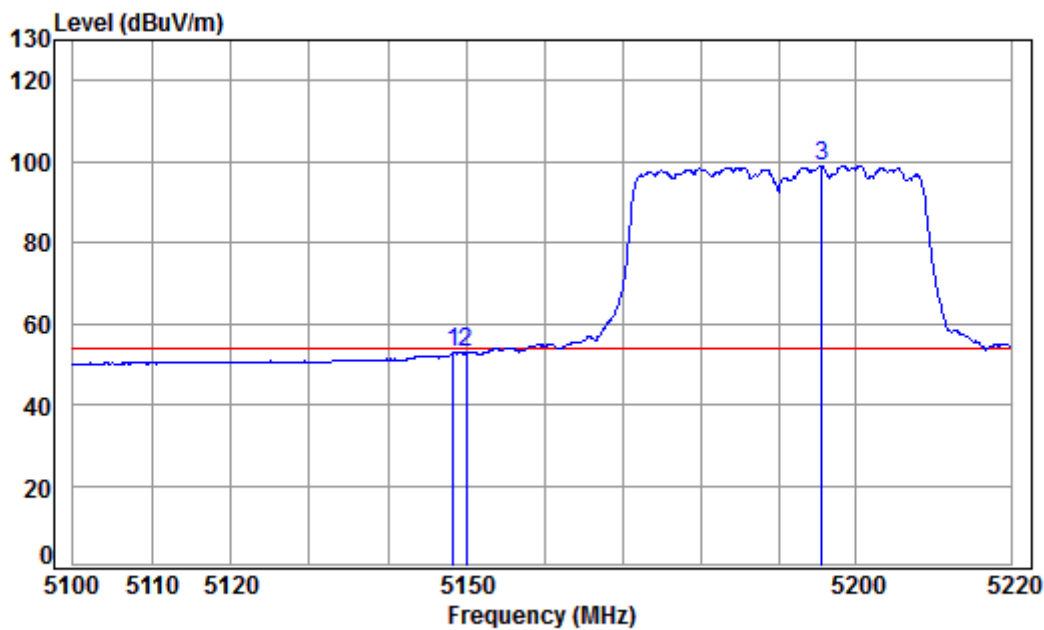


Condition: 3m HORIZONTAL
Job No: : 04534CR
Mode: : 5190 Bandedge
: 5GWIFI-AC40
: Power=62

	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	5146.588	8.08	34.47	38.47	60.11	64.19	74.00	-9.81	peak
2	5150.000	8.08	34.47	38.47	56.24	60.32	74.00	-13.68	peak
3 pp	5194.689	8.10	34.46	38.46	102.12	106.22	74.00	32.22	peak



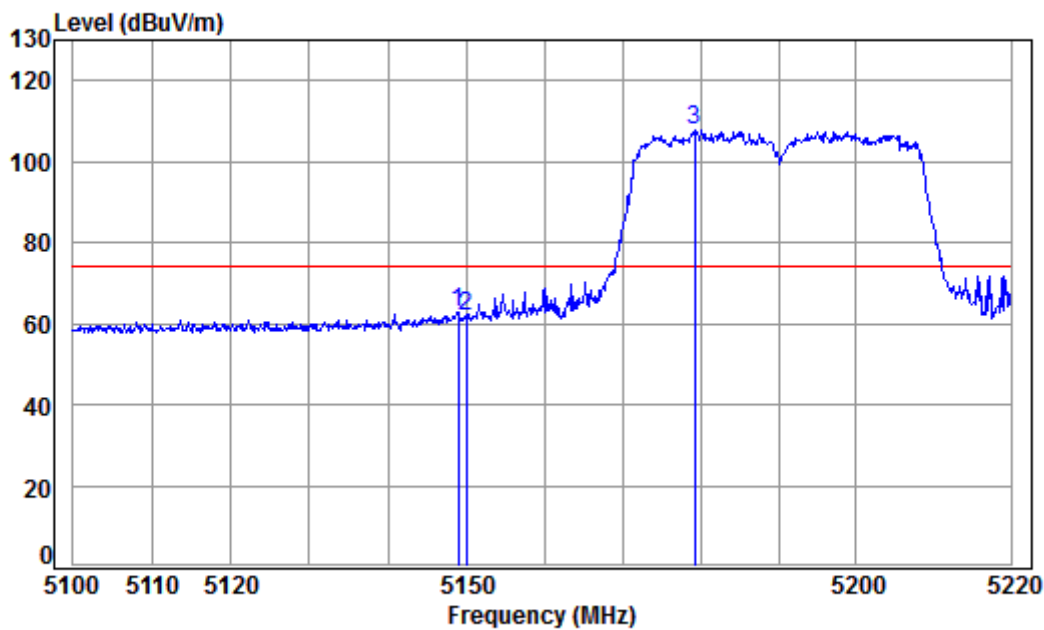
Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No: : 04534CR
Mode: : 5190 Bandedge
: 5GWIFI-AC40
: Power=62

	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	5148.384	8.08	34.47	38.47	48.70	52.78	54.00	-1.22	Average
2	5150.000	8.08	34.47	38.47	48.66	52.74	54.00	-1.26	Average
3 pp	5195.535	8.10	34.46	38.46	94.99	99.09	54.00	45.09	Average

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



Condition: 3m VERTICAL

Job No: : 04534CR

Mode: : 5190 Bandedge

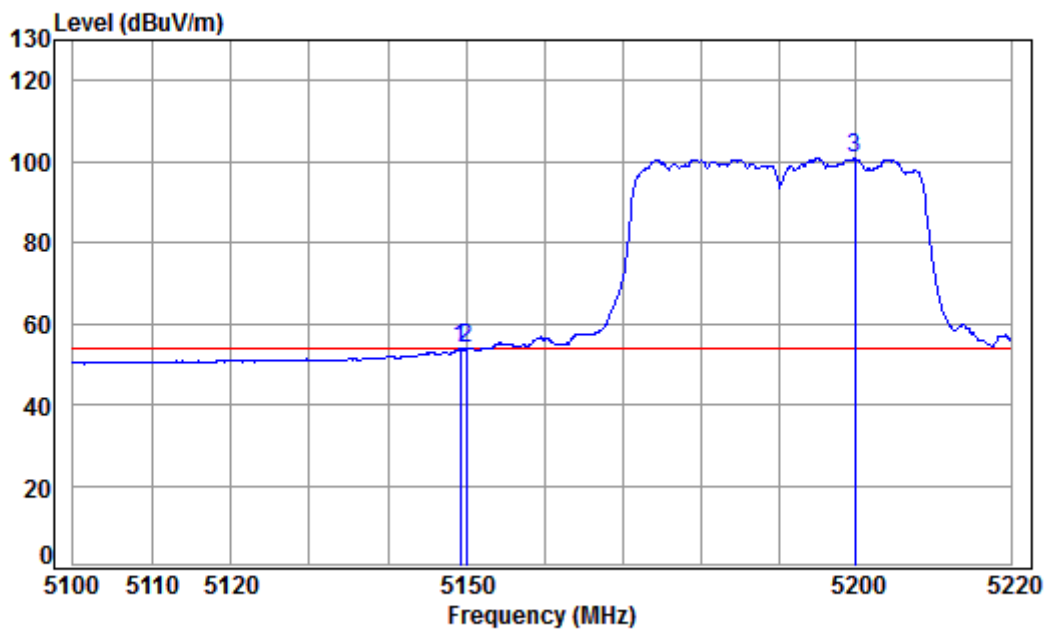
: 5GWIFI-AC40

: Power=62

		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	8.08	34.47	38.47	58.76	62.84	74.00	-11.16	Peak
2	5150.000	8.08	34.47	38.47	57.66	61.74	74.00	-12.26	Peak
3 pp	5179.248	8.09	34.46	38.46	103.89	107.98	74.00	33.98	Peak



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

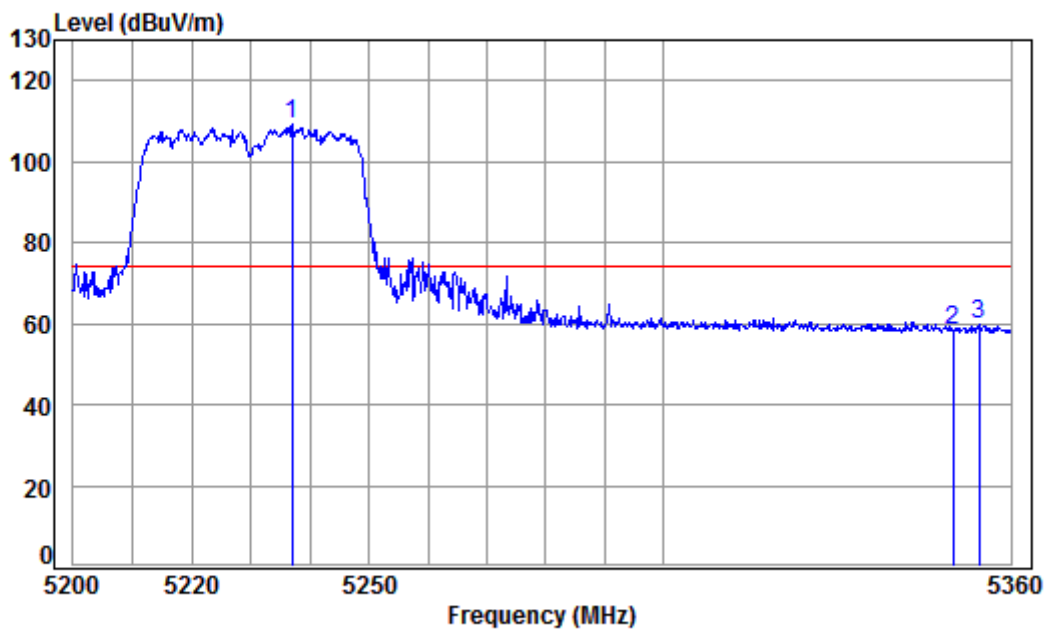


Condition: 3m VERTICAL
Job No: : 04534CR
Mode: : 5190 Bandedge
: 5GWIFI-AC40
: Power=62

	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	5149.222	8.08	34.47	38.47	49.62	53.70	54.00	-0.30	Average
2	5150.000	8.08	34.47	38.47	49.90	53.98	54.00	-0.02	Average
3 pp	5199.886	8.10	34.46	38.46	96.72	100.82	54.00	46.82	Average



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

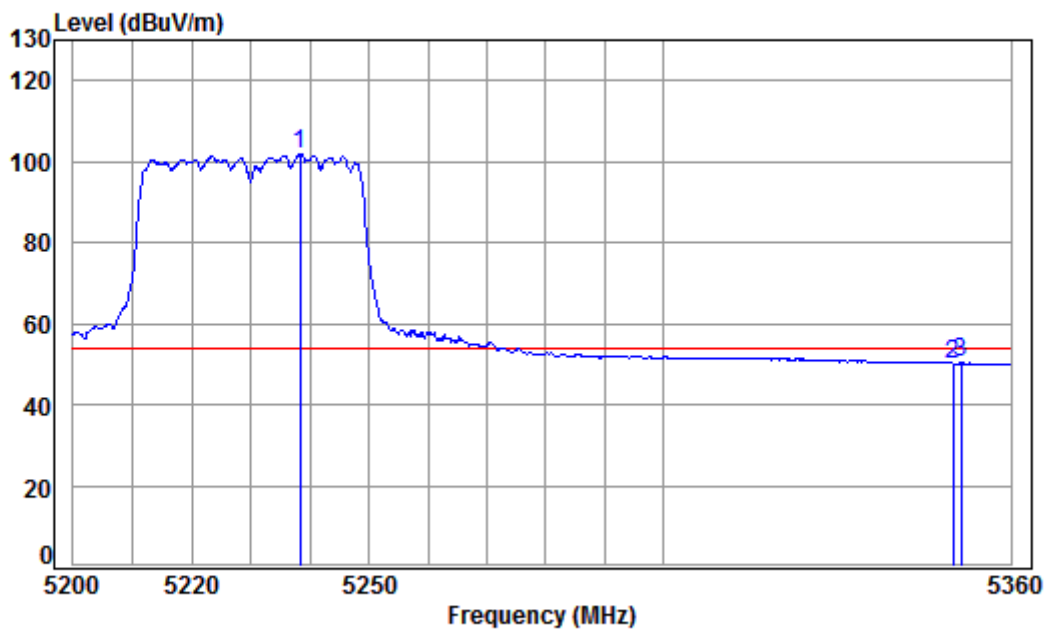


Condition: 3m HORIZONTAL
Job No: : 04534CR
Mode: : 5230 Bandedge
: 5GWIFI-AC40
: Power=70

		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 pp	5237.007	8.12	34.45	38.45	105.20	109.32	74.00	35.32 peak
2	5350.000	8.18	34.43	38.43	54.32	58.50	74.00	-15.50 peak
3	5354.480	8.18	34.43	38.43	55.41	59.59	74.00	-14.41 peak



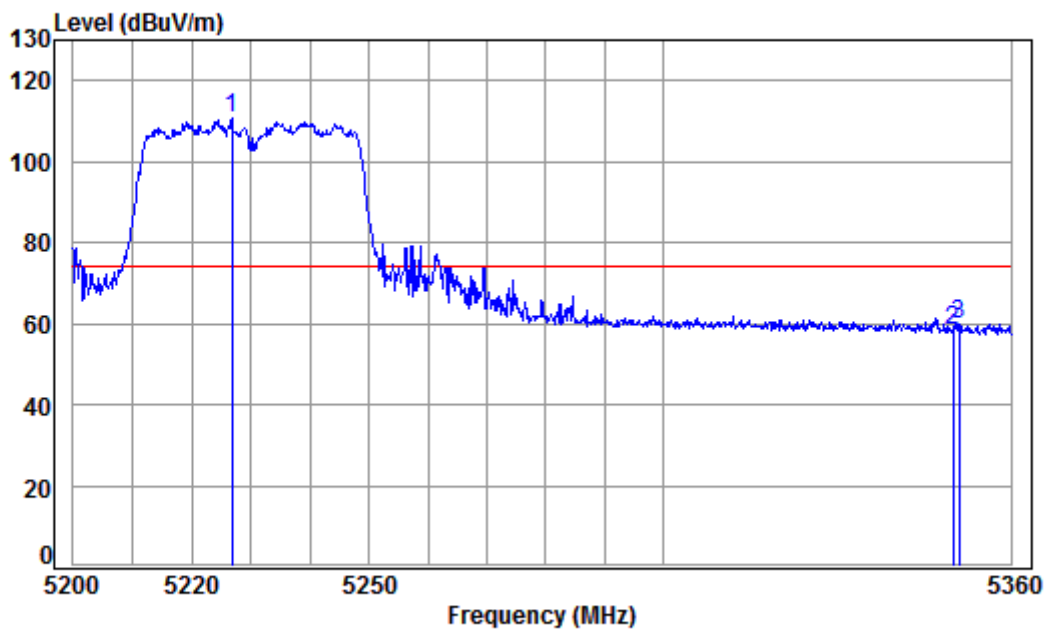
Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No: : 04534CR
Mode: : 5230 Bandedge
: 5GWIFI-AC40
: Power=70

		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 pp	5238.276	8.12	34.45	38.45	97.53	101.65	54.00	47.65 Average
2	5350.000	8.18	34.43	38.43	45.95	50.13	54.00	-3.87 Average
3	5351.398	8.18	34.43	38.43	46.02	50.20	54.00	-3.80 Average

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



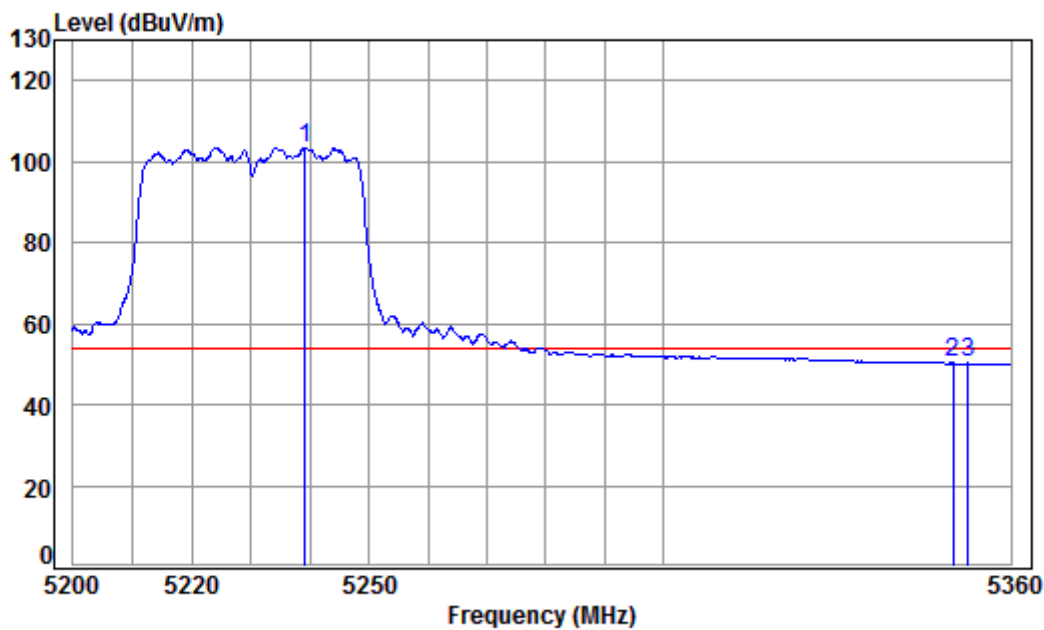
Condition: 3m VERTICAL

Job No: : 04534CR

Mode: : 5230 Bandedge
: 5GWIFI-AC40
: Power=70

		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 pp	5226.701	8.12	34.45	38.45	106.43	110.55	74.00	36.55	Peak
2	5350.000	8.18	34.43	38.43	54.04	58.22	74.00	-15.78	Peak
3	5351.073	8.18	34.43	38.43	55.79	59.97	74.00	-14.03	Peak

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



Condition: 3m VERTICAL

Job No: : 04534CR

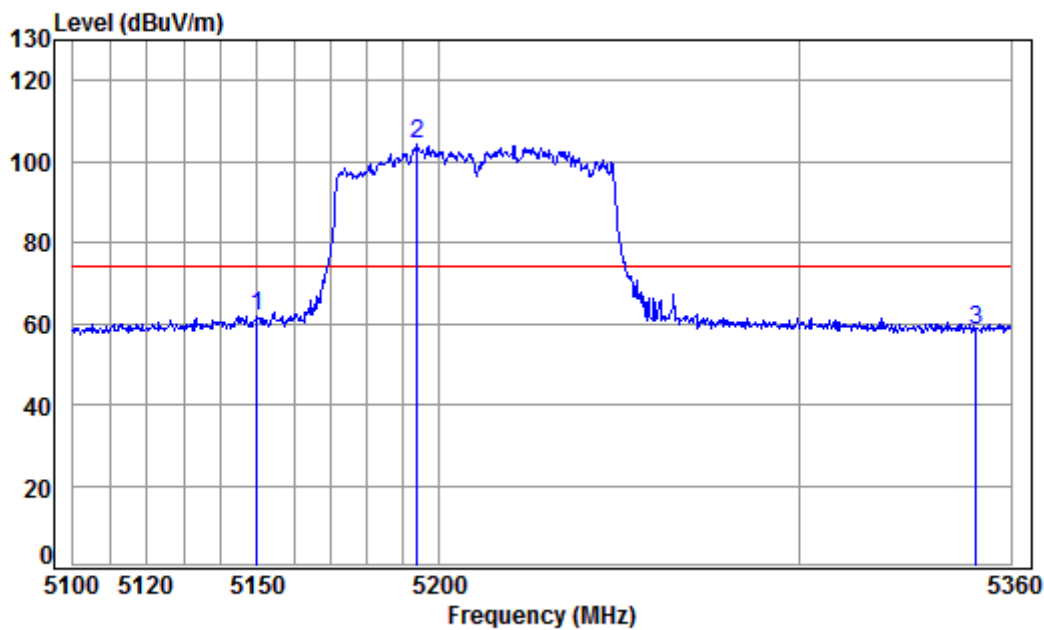
Mode: : 5230 Bandedge

: 5GWIFI-AC40

: Power=70

		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 pp	5239.229	8.12	34.45	38.45	99.42	103.54	54.00	49.54 Average
2	5350.000	8.18	34.43	38.43	46.02	50.20	54.00	-3.80 Average
3	5352.533	8.18	34.43	38.43	46.00	50.18	54.00	-3.82 Average

Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No: : 04534CR

Mode: : 5210 Bandedge

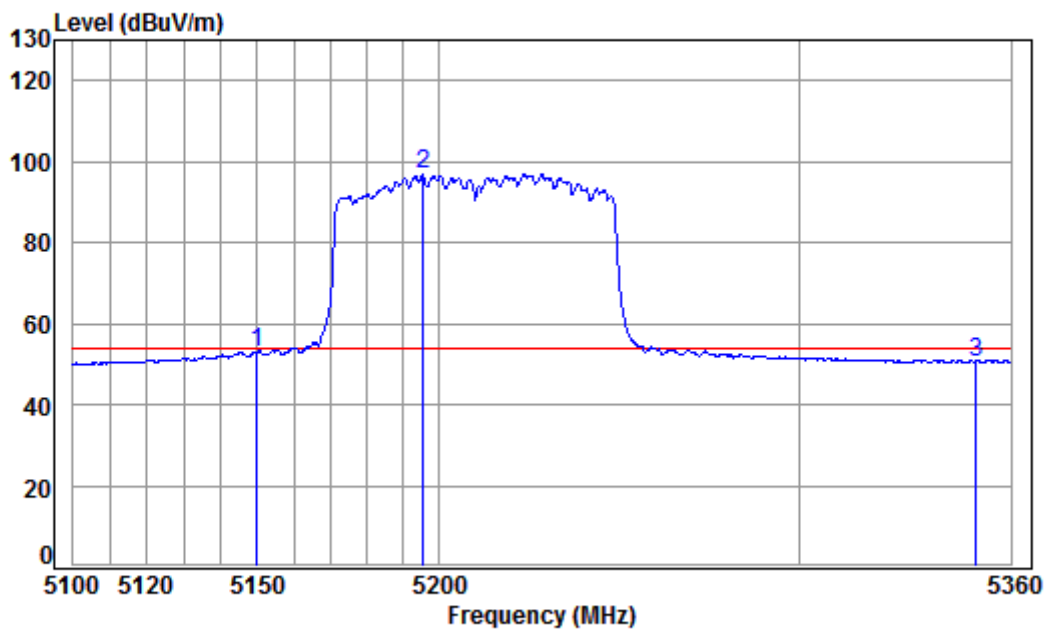
: 5GWIFI-AC 80

: Power=62

		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	5149.947	8.08	34.47	38.47	57.55	61.63	74.00	-12.37	peak
2	pp 5193.922	8.10	34.46	38.46	100.34	104.44	74.00	30.44	peak
3	5350.000	8.18	34.43	38.43	54.30	58.48	74.00	-15.52	peak



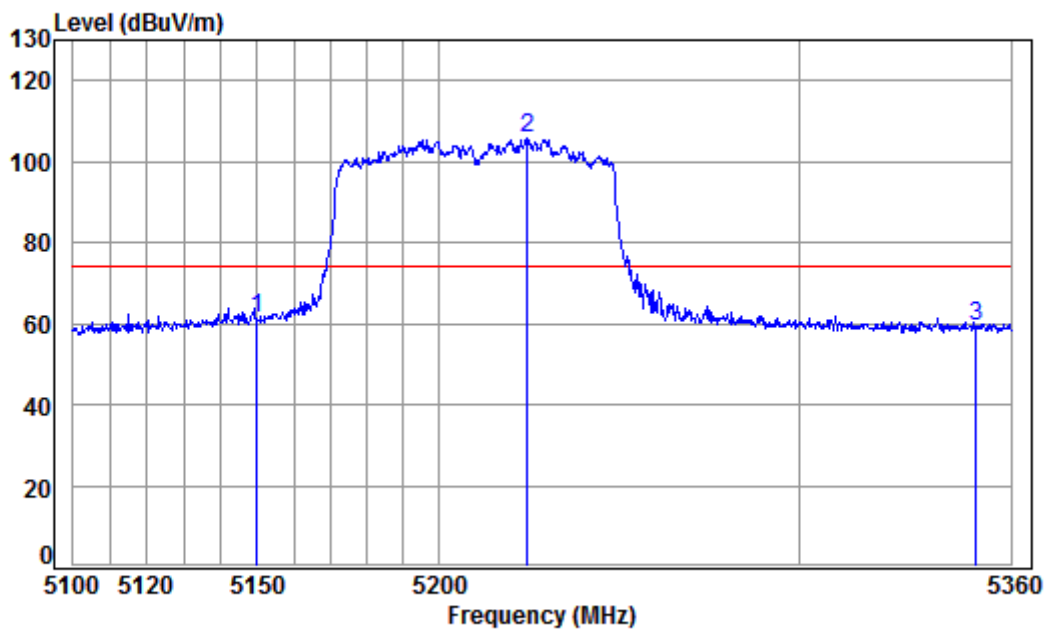
Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No: : 04534CR
Mode: : 5210 Bandedge
: 5GWIFI-AC 80
: Power=62

		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	5149.947	8.08	34.47	38.47	48.64	52.72	54.00	-1.28 Average
2	pp 5195.472	8.10	34.46	38.46	92.89	96.99	54.00	42.99 Average
3	5350.000	8.18	34.43	38.43	46.42	50.60	54.00	-3.40 Average

Mode:b; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:80MHz; Channel:Low



Condition: 3m VERTICAL

Job No: : 04534CR

Mode: : 5210 Bandedge

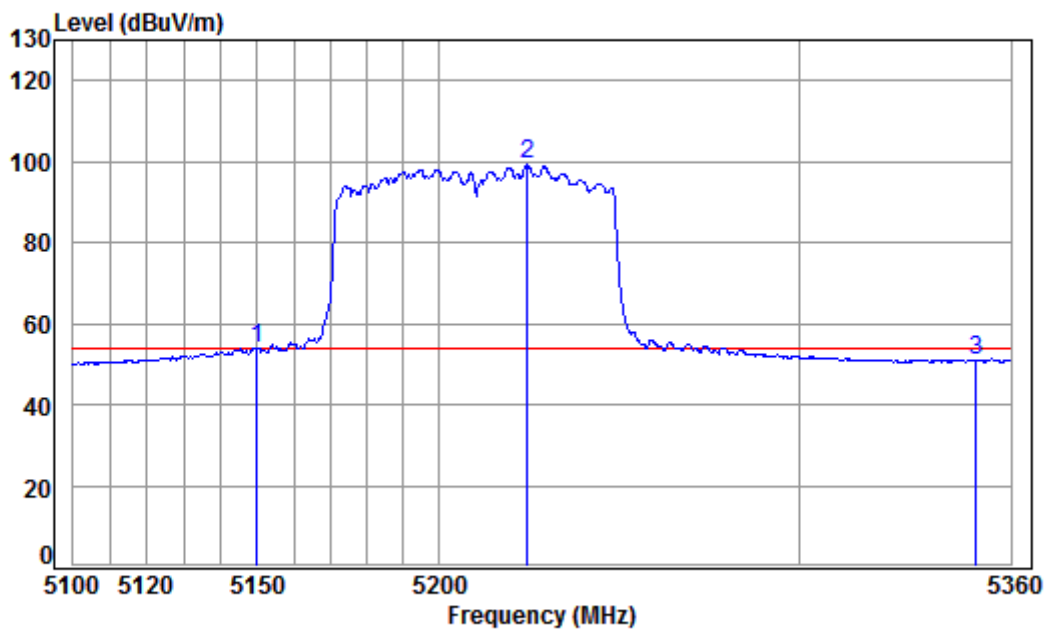
: 5GWIFI-AC 80

: Power=62

		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	5149.947	8.08	34.47	38.47	57.15	61.23	74.00	-12.77	Peak
2	pp 5224.226	8.12	34.45	38.46	101.69	105.80	74.00	31.80	Peak
3	5350.000	8.18	34.43	38.43	54.91	59.09	74.00	-14.91	Peak



Mode:b; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:80MHz; Channel:Low



Condition: 3m VERTICAL

Job No: : 04534CR

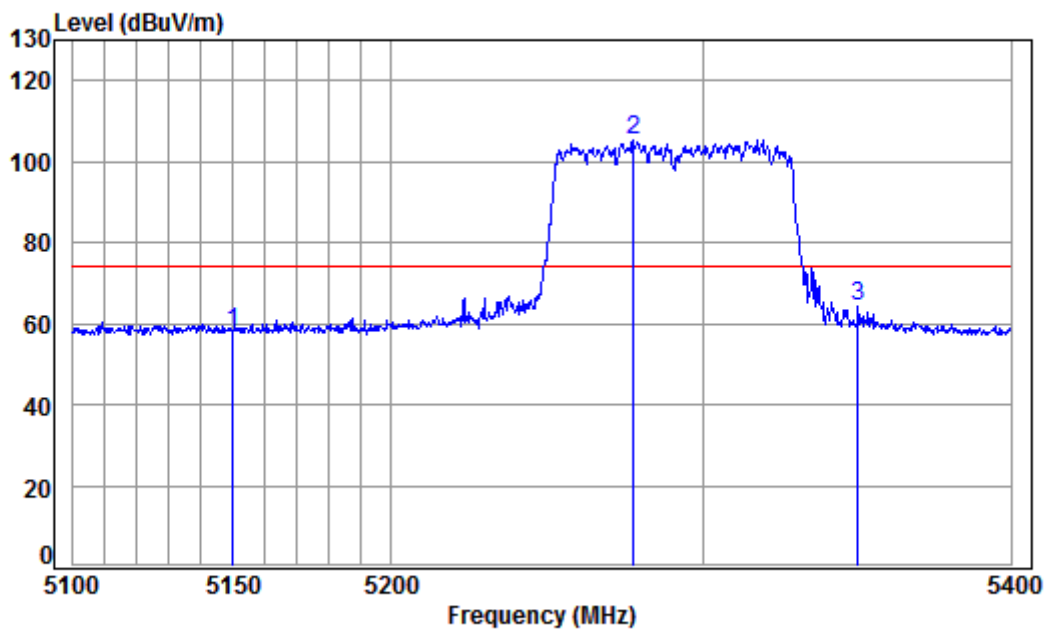
Mode: : 5210 Bandedge

: 5GWIFI-AC 80

: Power=62

		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	5149.947	8.08	34.47	38.47	49.80	53.88	54.00	-0.12 Average
2	pp 5224.226	8.12	34.45	38.46	95.12	99.23	54.00	45.23 Average
3	5350.000	8.18	34.43	38.43	46.82	51.00	54.00	-3.00 Average

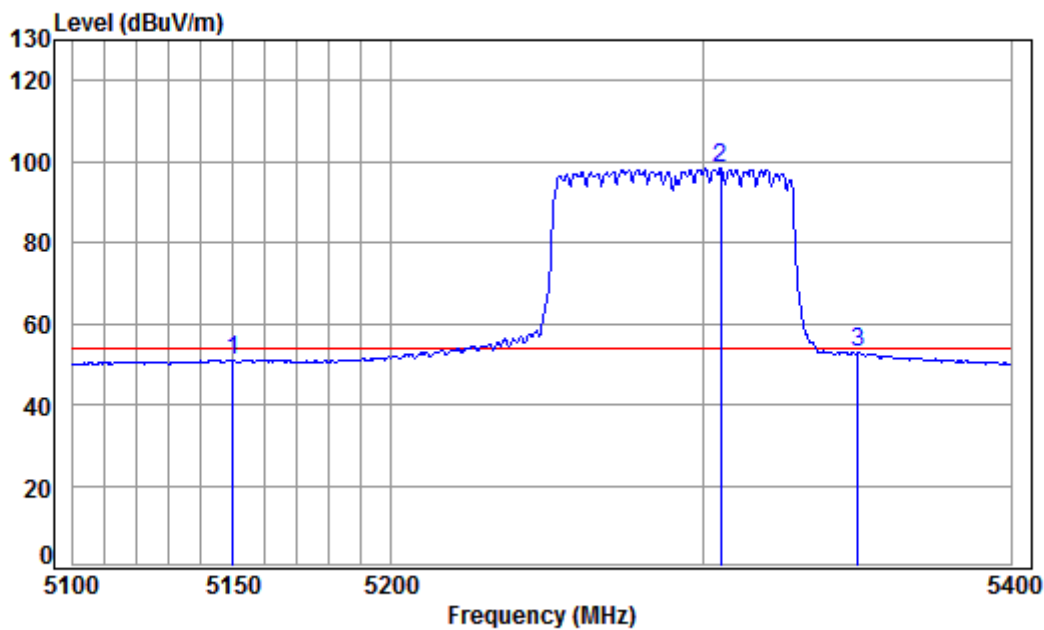
Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:80MHz; Channel:High



Condition: 3m HORIZONTAL
Job No: : 04534CR
Mode: : 5290 Bandedge
: 5GWIFI-AC 80
: Power=66

		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	5150.092	8.08	34.47	38.47	53.99	58.07	74.00	-15.93 peak
2	pp 5277.335	8.14	34.44	38.44	101.22	105.36	74.00	31.36 peak
3	5350.000	8.18	34.43	38.43	59.91	64.09	74.00	-9.91 peak

Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:80MHz; Channel:High



Condition: 3m HORIZONTAL

Job No: : 04534CR

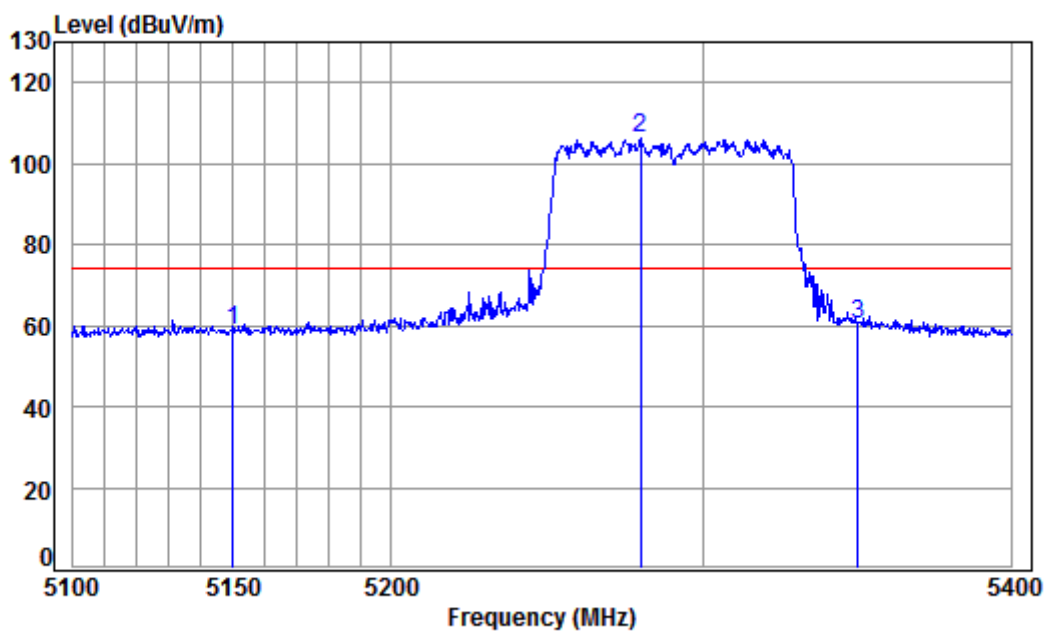
Mode: : 5290 Bandedge

: 5GWIFI-AC 80

: Power=66

		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	5150.092	8.08	34.47	38.47	46.72	50.80	54.00	-3.20 Average
2	pp 5305.463	8.16	34.44	38.44	94.25	98.41	54.00	44.41 Average
3	5350.000	8.18	34.43	38.43	48.69	52.87	54.00	-1.13 Average

Mode:b; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:80MHz; Channel:High



Condition: 3m VERTICAL

Job No: : 04534CR

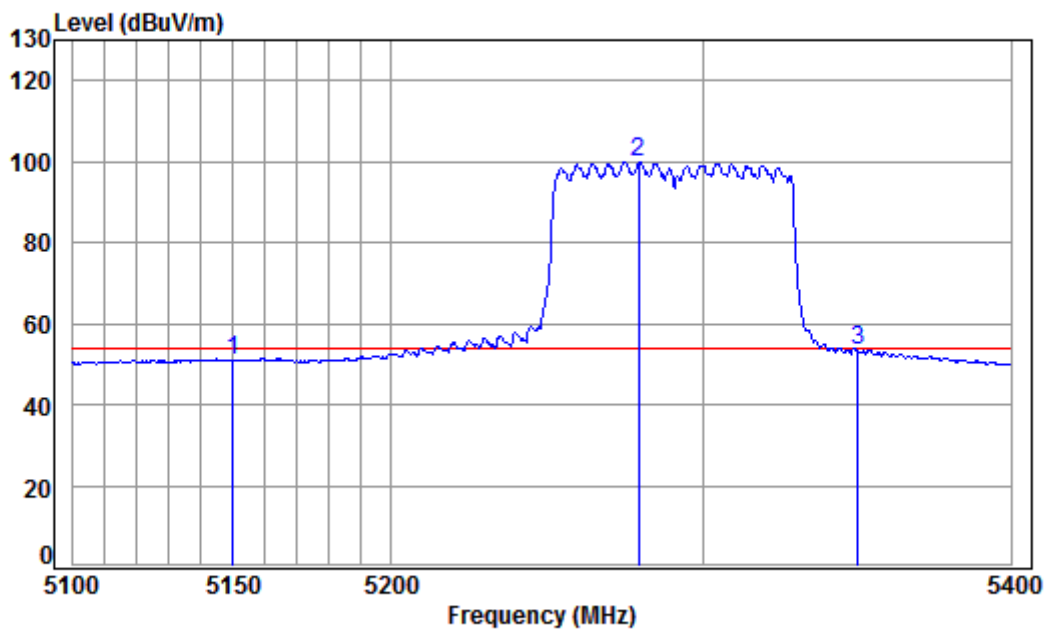
Mode: : 5290 Bandedge

: 5GWIFI-AC 80

: Power=66

		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	5150.092	8.08	34.47	38.47	54.56	58.64	74.00	-15.36	Peak
2	pp 5279.447	8.14	34.44	38.44	101.94	106.08	74.00	32.08	Peak
3	5350.000	8.18	34.43	38.43	56.11	60.29	74.00	-13.71	Peak

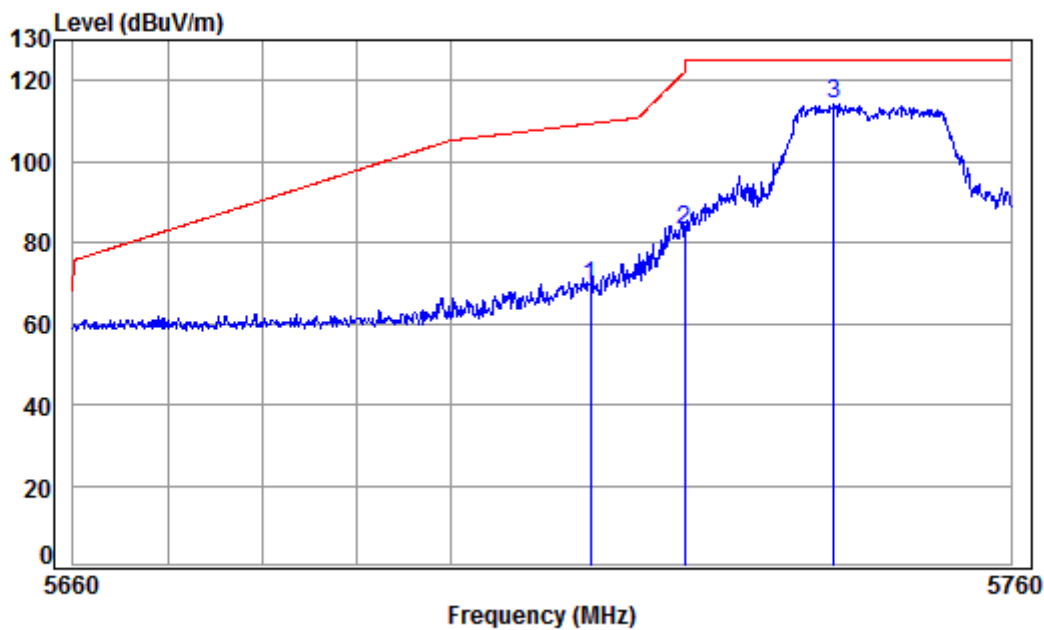
Mode:b; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:80MHz; Channel:High



Condition: 3m VERTICAL
Job No: : 04534CR
Mode: : 5290 Bandedge
: 5GWIFI-AC 80
: Power=66

		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	5150.092	8.08	34.47	38.47	47.00	51.08	54.00	-2.92 Average
2	pp 5278.844	8.14	34.44	38.44	95.71	99.85	54.00	45.85 Average
3	5350.000	8.18	34.43	38.43	48.99	53.17	54.00	-0.83 Average

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



Condition: 3m HORIZONTAL

Job No: : 04534CR

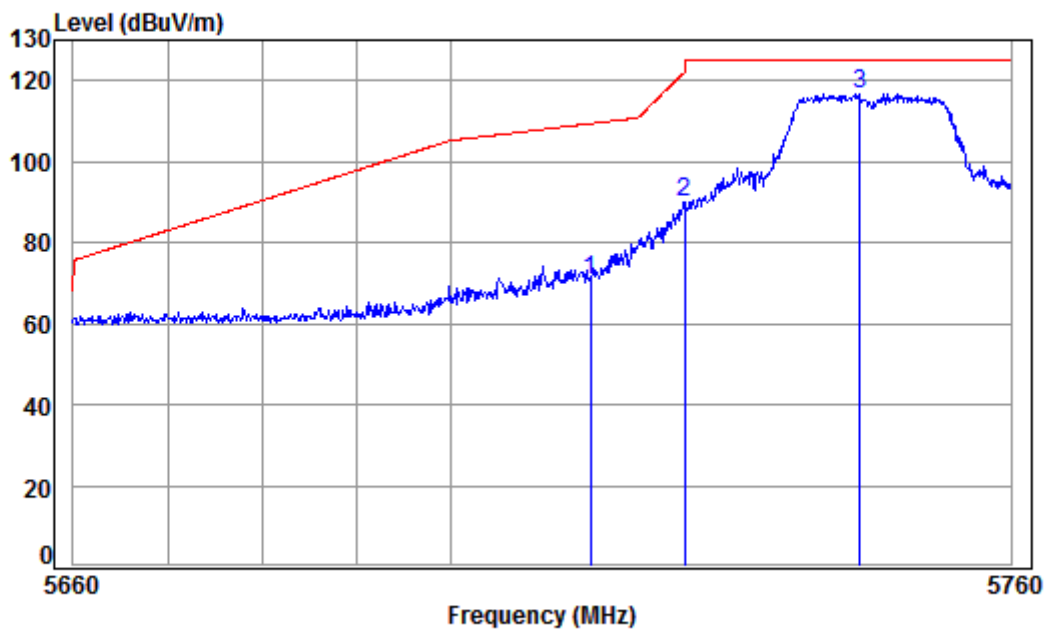
Mode: : 5745 Bandedge

: 5GWIFI-A

: Power=105

		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	8.47	34.53	38.36	64.63	69.27	109.40	-40.13	peak
2	5725.000	8.48	34.54	38.35	78.52	83.19	122.20	-39.01	peak
3 pp	5740.965	8.50	34.55	38.35	109.61	114.31	125.20	-10.89	peak

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



Condition: 3m VERTICAL

Job No: : 04534CR

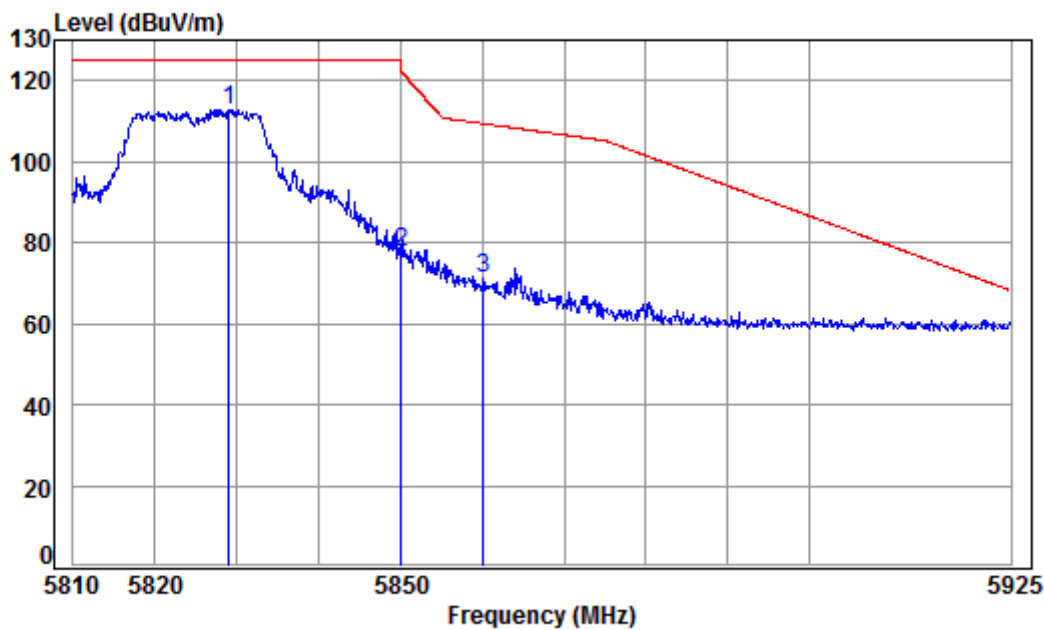
Mode: : 5745 Bandedge

: 5GWIFI-A

: Power=105

		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	8.47	34.53	38.36	65.81	70.45	109.40	-38.95	peak
2	5725.000	8.48	34.54	38.35	85.33	90.00	122.20	-32.20	peak
3 pp	5743.781	8.50	34.55	38.35	112.14	116.84	125.20	-8.36	peak

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



Condition: 3m HORIZONTAL

Job No: : 04534CR

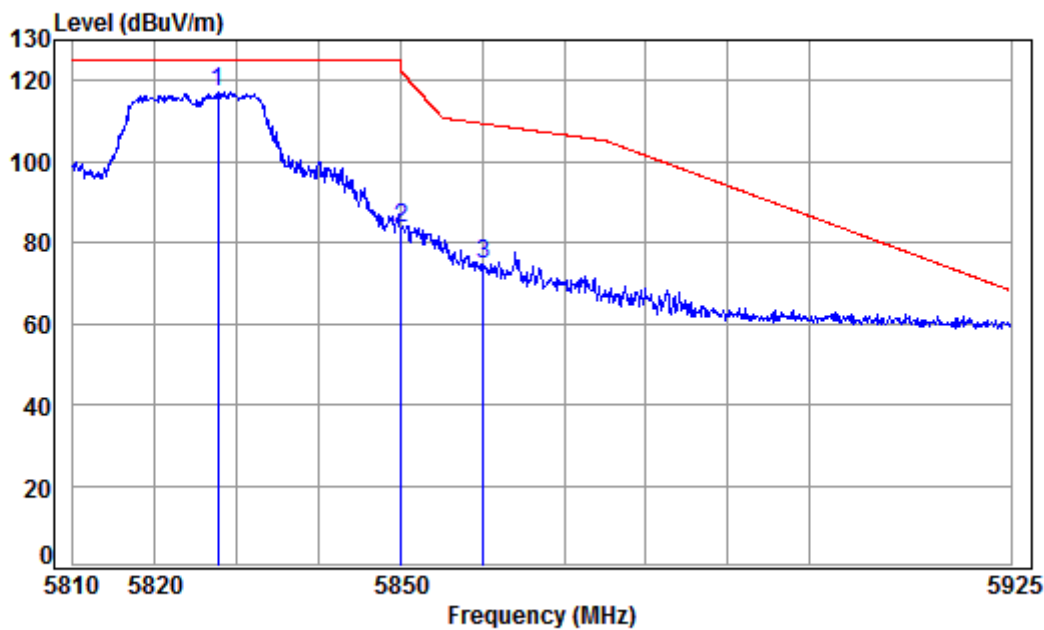
Mode: : 5825 Bandedge

: 5GWIFI-A

: Power=105

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5828.934	8.58	34.60	38.33	108.05	112.90	125.20	-12.30 peak
2	5850.000	8.60	34.61	38.33	72.92	77.80	122.20	-44.40 peak
3	5860.000	8.61	34.62	38.33	66.34	71.24	109.40	-38.16 peak

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



Condition: 3m VERTICAL

Job No: : 04534CR

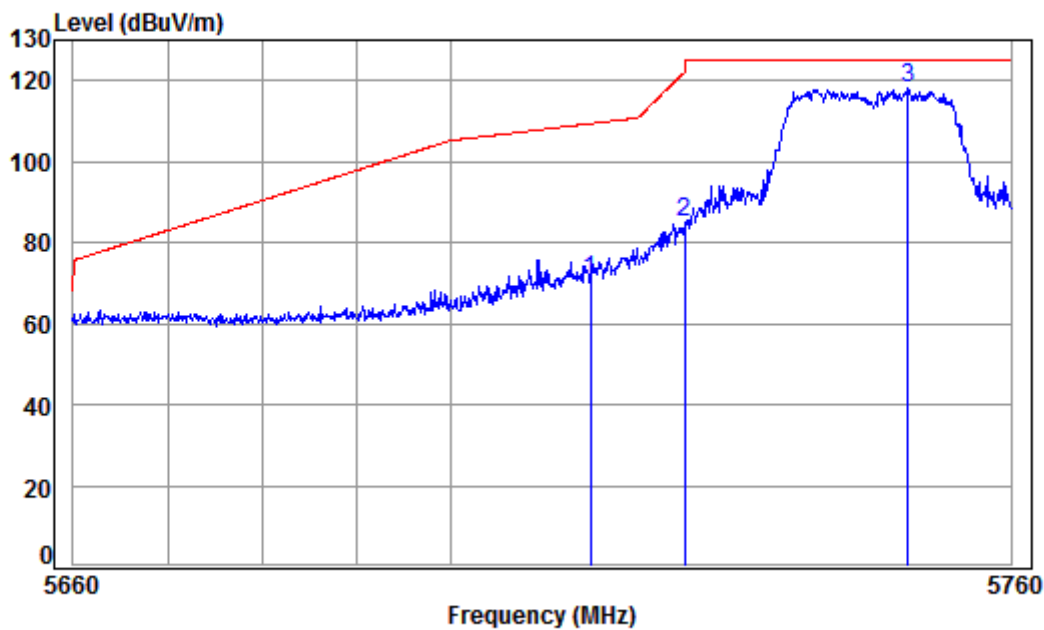
Mode: : 5825 Bandedge

: 5GWIFI-A

: Power=105

		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 pp	5827.678	8.58	34.60	38.33	112.20	117.05	125.20	-8.15	peak
2	5850.000	8.60	34.61	38.33	78.86	83.74	122.20	-38.46	peak
3	5860.000	8.61	34.62	38.33	69.56	74.46	109.40	-34.94	peak

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



Condition: 3m HORIZONTAL

Job No: : 04534CR

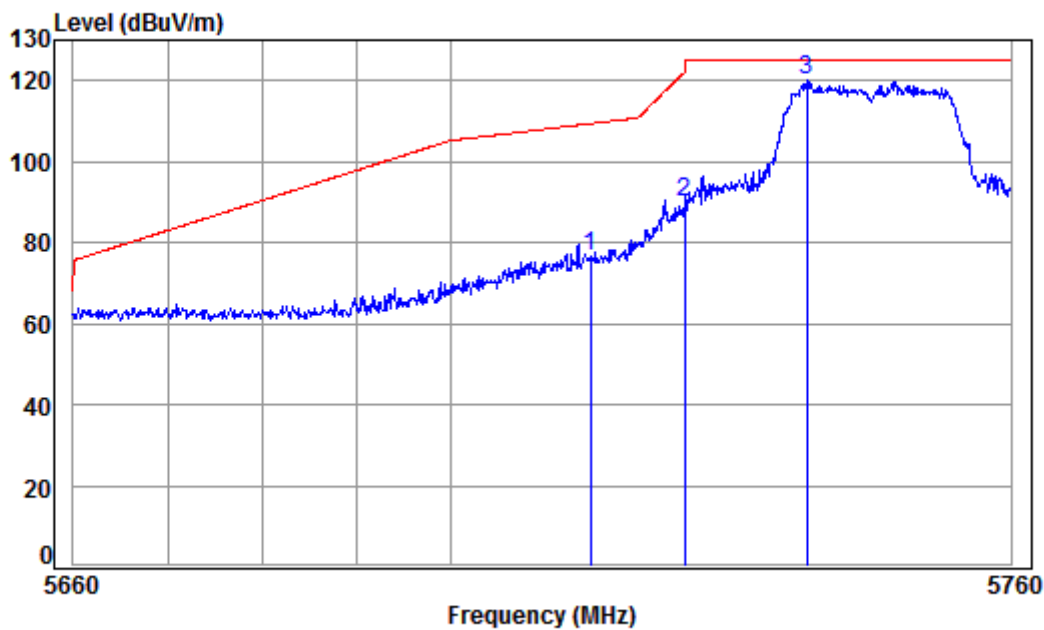
Mode: : 5745 Bandedge

: 5GWIFI-N20

: Power=100

		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	5715.000	8.47	34.53	38.36	65.82	70.46	109.40	-38.94 peak
2	5725.000	8.48	34.54	38.35	80.39	85.06	122.20	-37.14 peak
3 pp	5748.914	8.50	34.55	38.35	113.38	118.08	125.20	-7.12 peak

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



Condition: 3m VERTICAL

Job No: : 04534CR

Mode: : 5745 Bandedge

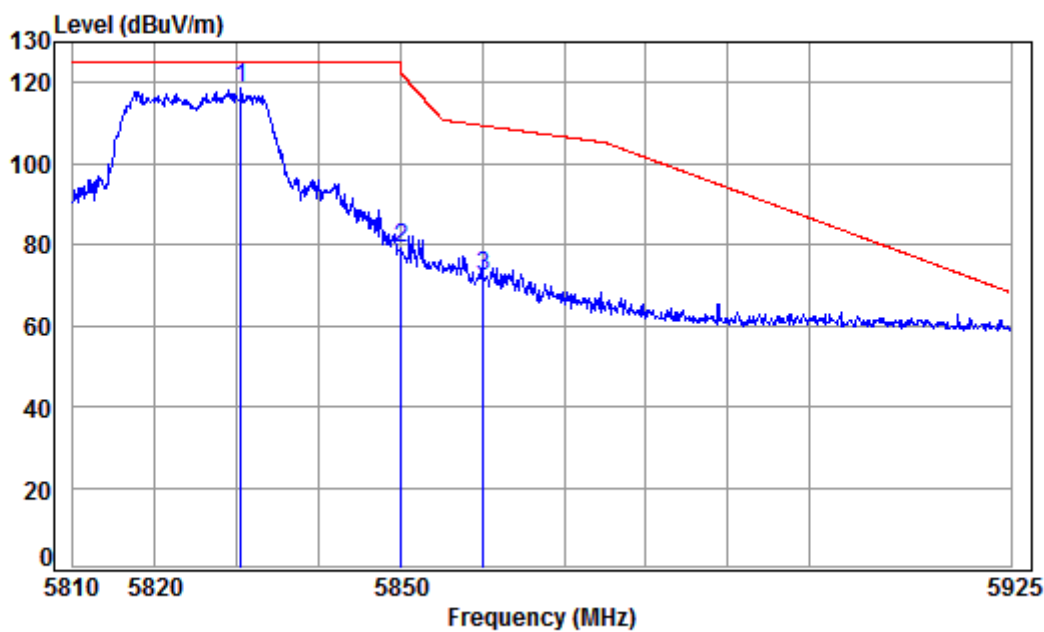
: 5GWIFI-N20

: Power=100

		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	8.47	34.53	38.36	72.20	76.84	109.40	-32.56 peak
2	5725.000	8.48	34.54	38.35	85.06	89.73	122.20	-32.47 peak
3 pp	5738.050	8.49	34.55	38.35	115.34	120.03	125.20	-5.17 peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

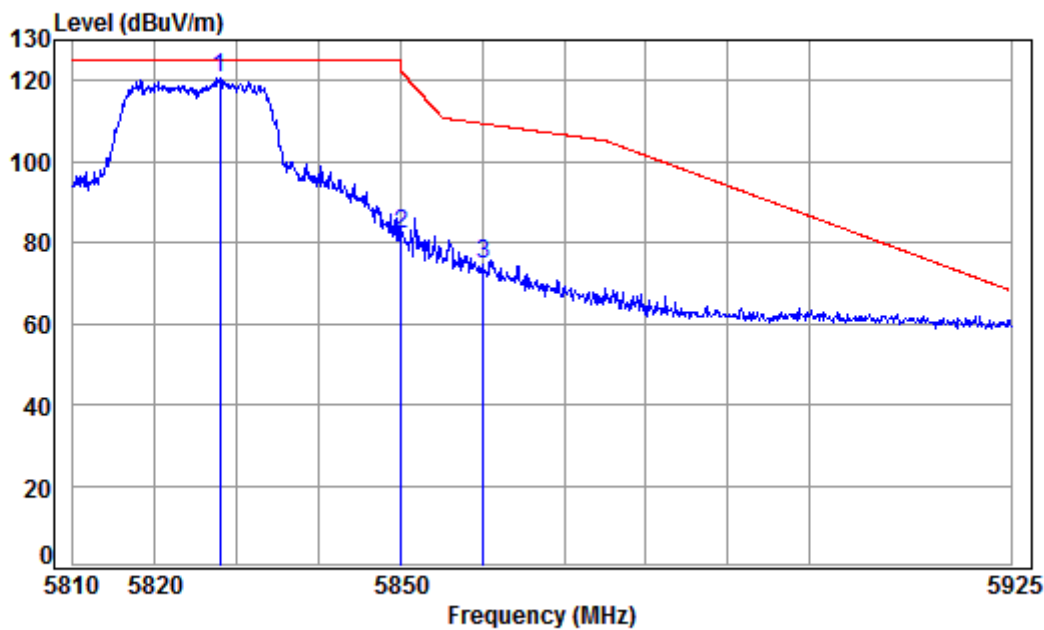
Mode: : 5825 Bandedge

: 5GWIFI-N20

: Power=100

		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 pp	5830.420	8.59	34.60	38.33	113.53	118.39	125.20	-6.81	peak
2	5850.000	8.60	34.61	38.33	74.14	79.02	122.20	-43.18	peak
3	5860.000	8.61	34.62	38.33	67.13	72.03	109.40	-37.37	peak

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

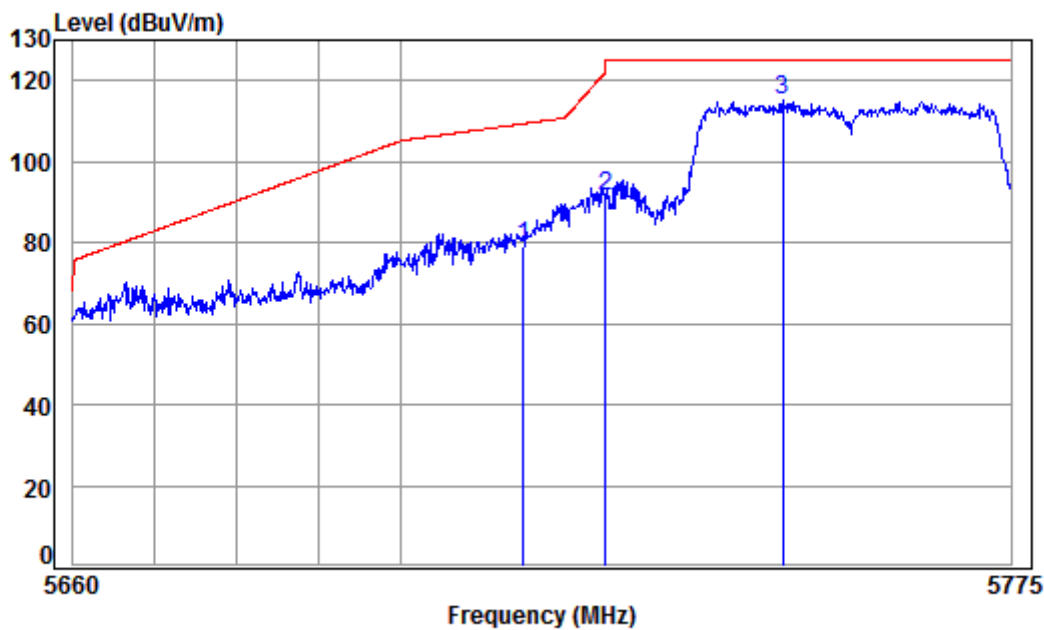


Condition: 3m VERTICAL
Job No: : 04534CR
Mode: : 5825 Bandedge
: 5GWIFI-N20
: Power=100

		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 pp	5827.906	8.58	34.60	38.33	115.84	120.69	125.20	-4.51 peak
2	5850.000	8.60	34.61	38.33	76.99	81.87	122.20	-40.33 peak
3	5860.000	8.61	34.62	38.33	69.58	74.48	109.40	-34.92 peak



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

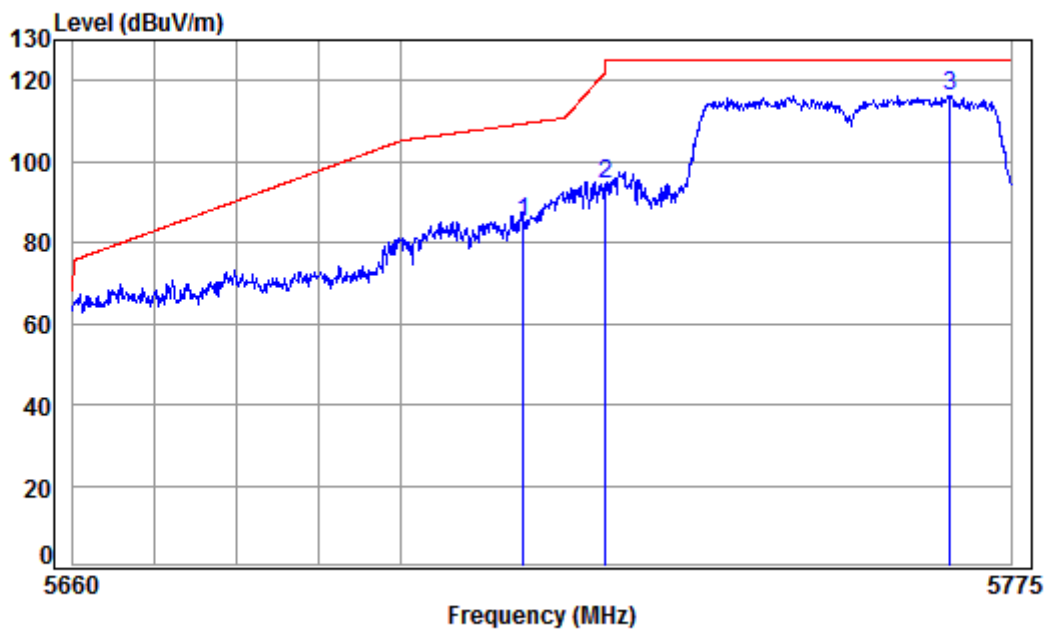


Condition: 3m HORIZONTAL
Job No: : 04534CR
Mode: : 5755 Bandedge
: 5GWIFI-N40
: Power=100

		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	8.47	34.53	38.36	74.67	79.31	109.40	-30.09 peak
2	5725.000	8.48	34.54	38.35	86.95	91.62	122.20	-30.58 peak
3 pp	5746.842	8.50	34.55	38.35	110.34	115.04	125.20	-10.16 peak



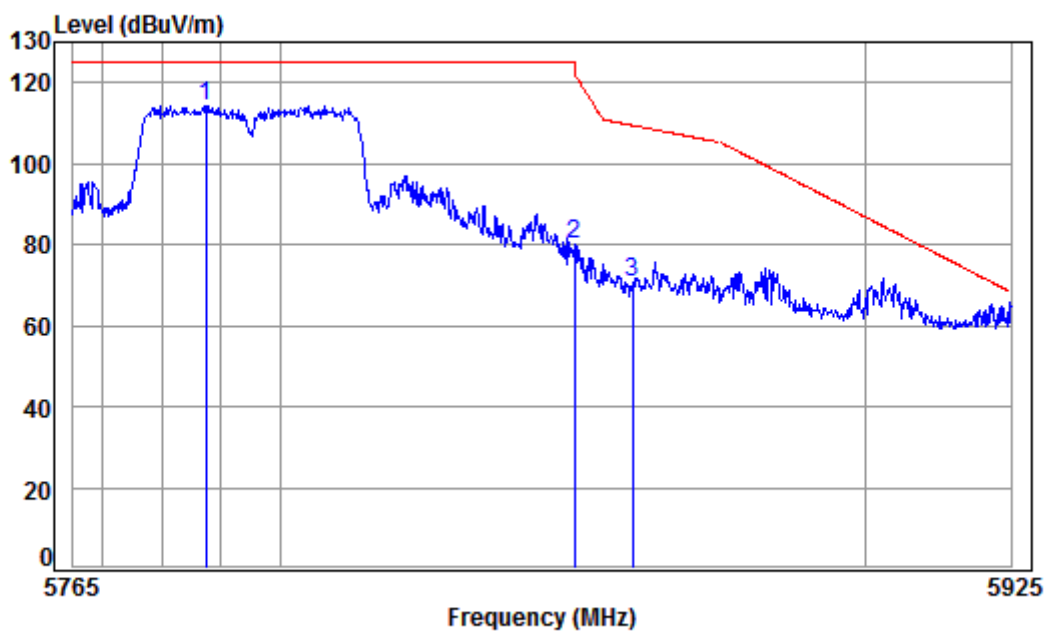
Mode:c; Polarization:Vertical; Modulation Type:802.11n; bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No: : 04534CR
Mode: : 5755 Bandedge
: 5GWIFI-N40
: Power=100

	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	5715.000	8.47	34.53	38.36	80.34	84.98	109.40	-24.42	peak
2	5725.000	8.48	34.54	38.35	89.72	94.39	122.20	-27.81	peak
3 pp	5767.455	8.52	34.56	38.35	111.49	116.22	125.20	-8.98	peak

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



Condition: 3m HORIZONTAL

Job No: : 04534CR

Mode: : 5795 Bandedge

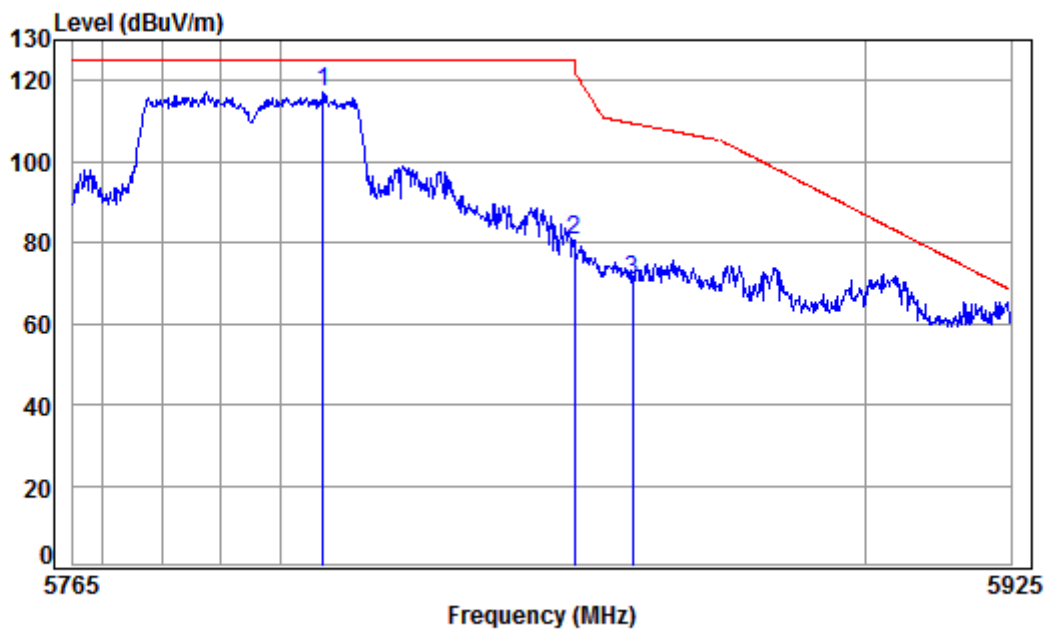
: 5GWIFI-N40

: Power=100

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5787.454	8.54	34.58	38.34	109.63	114.41	125.20	-10.79 peak
2	5850.000	8.60	34.61	38.33	74.96	79.84	122.20	-42.36 peak
3	5860.000	8.61	34.62	38.33	65.71	70.61	109.40	-38.79 peak



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



Condition: 3m VERTICAL

Job No: : 04534CR

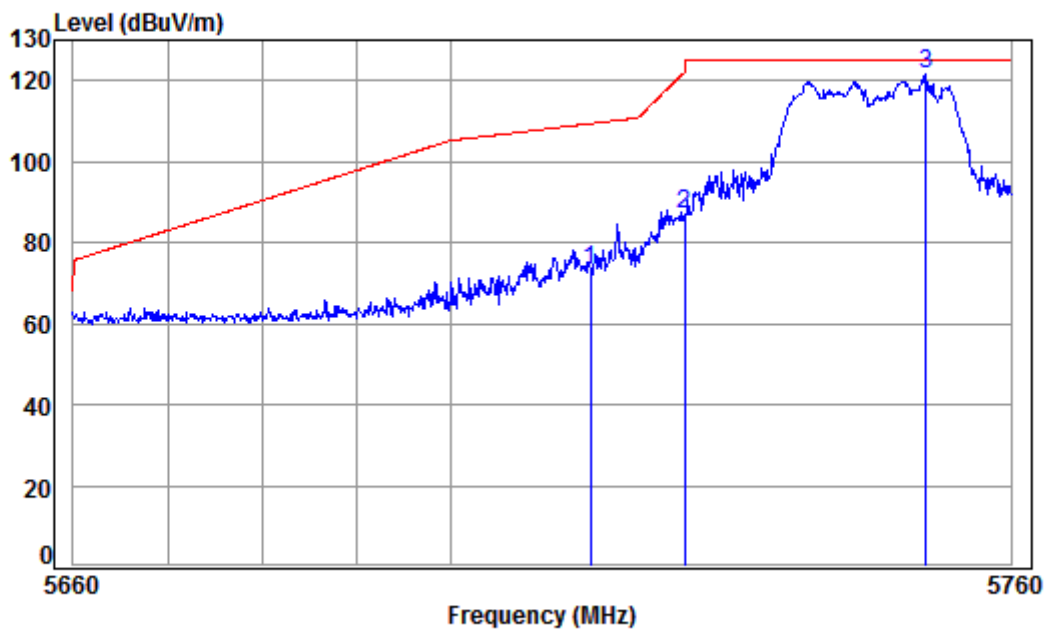
Mode: : 5795 Bandedge

: 5GWIFI-N40

: Power=100

		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 pp	5807.292	8.56	34.59	38.34	112.34	117.15	125.20	-8.05	peak
2	5850.000	8.60	34.61	38.33	75.49	80.37	122.20	-41.83	peak
3	5860.000	8.61	34.62	38.33	65.72	70.62	109.40	-38.78	peak

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



Condition: 3m HORIZONTAL

Job No: : 04534CR

Mode: : 5745 Bandedge

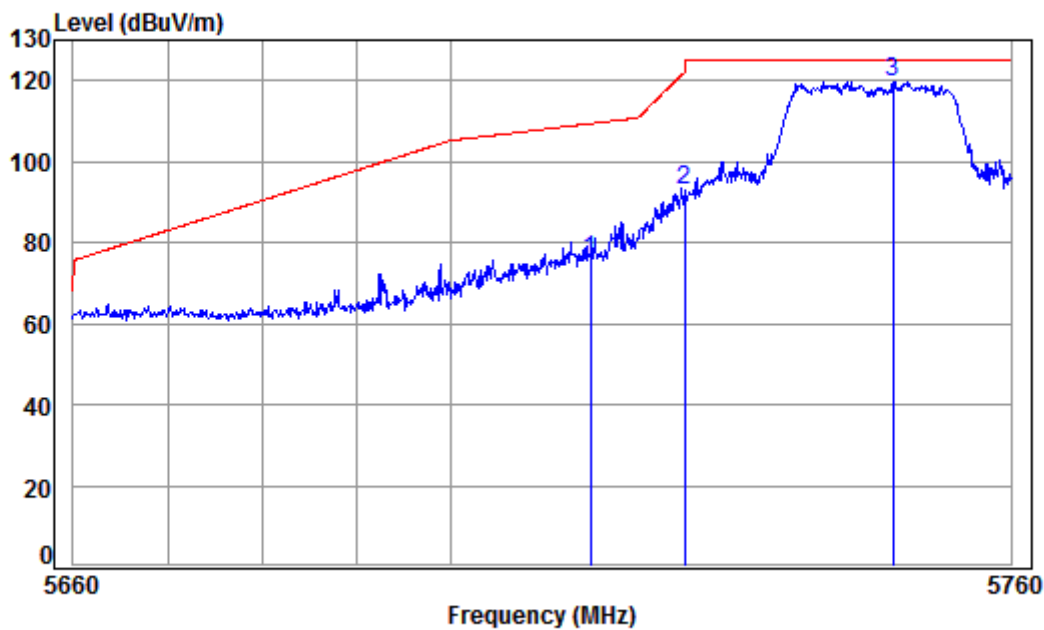
: 5GWIFI-AC20

: Power=100

		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	8.47	34.53	38.36	68.58	73.22	109.40	-36.18	peak
2	5725.000	8.48	34.54	38.35	82.31	86.98	122.20	-35.22	peak
3 pp	5750.928	8.51	34.55	38.35	116.95	121.66	125.20	-3.54	peak



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

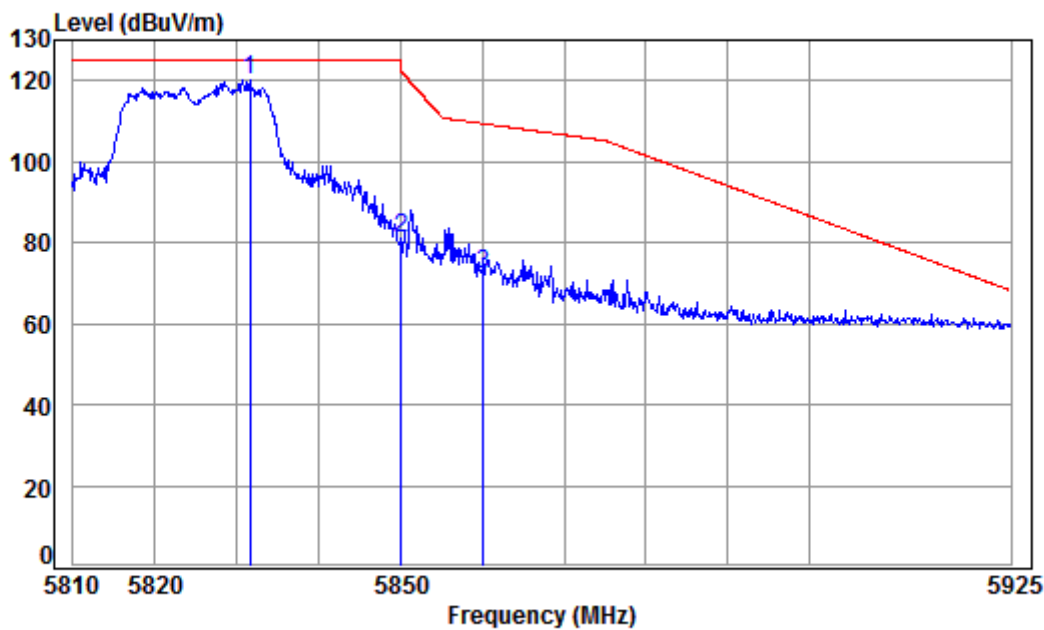


Condition: 3m VERTICAL
Job No: : 04534CR
Mode: : 5745 Bandedge
: 5GWIFI-AC20
: Power=100

	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	5715.000	8.47	34.53	38.36	70.79	75.43	109.40	-33.97	peak
2	5725.000	8.48	34.54	38.35	88.40	93.07	122.20	-29.13	peak
3 pp	5747.303	8.50	34.55	38.35	115.05	119.75	125.20	-5.45	peak



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



Condition: 3m HORIZONTAL

Job No: : 04534CR

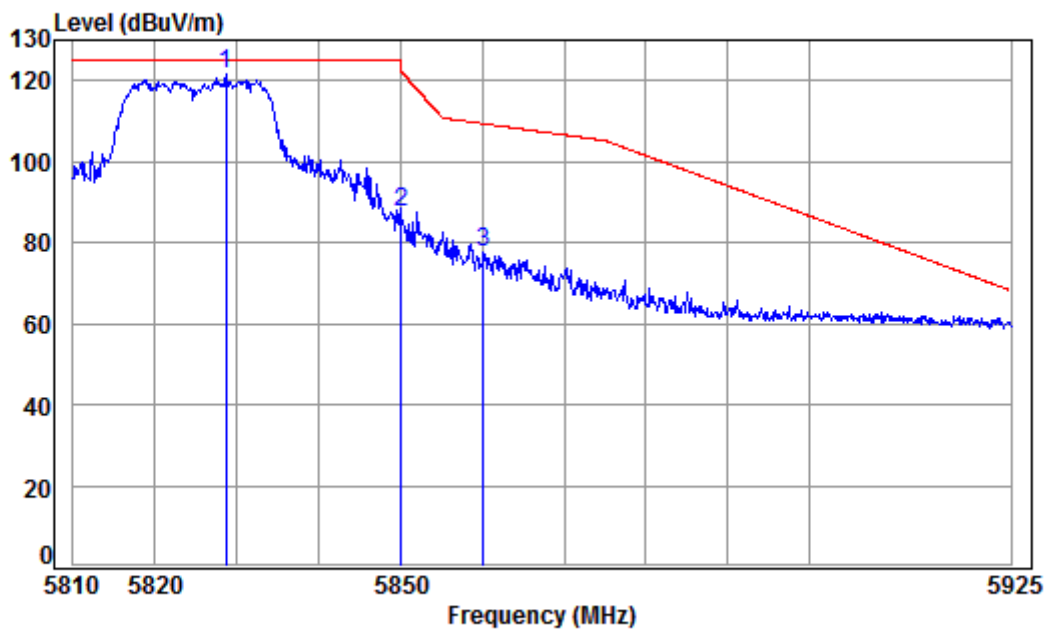
Mode: : 5825 Bandedge

: 5GWIFI-AC20

: Power=100

		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 pp	5831.563	8.59	34.60	38.33	115.47	120.33	125.20	-4.87	peak
2	5850.000	8.60	34.61	38.33	76.14	81.02	122.20	-41.18	peak
3	5860.000	8.61	34.62	38.33	67.27	72.17	109.40	-37.23	peak

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



Condition: 3m VERTICAL

Job No: : 04534CR

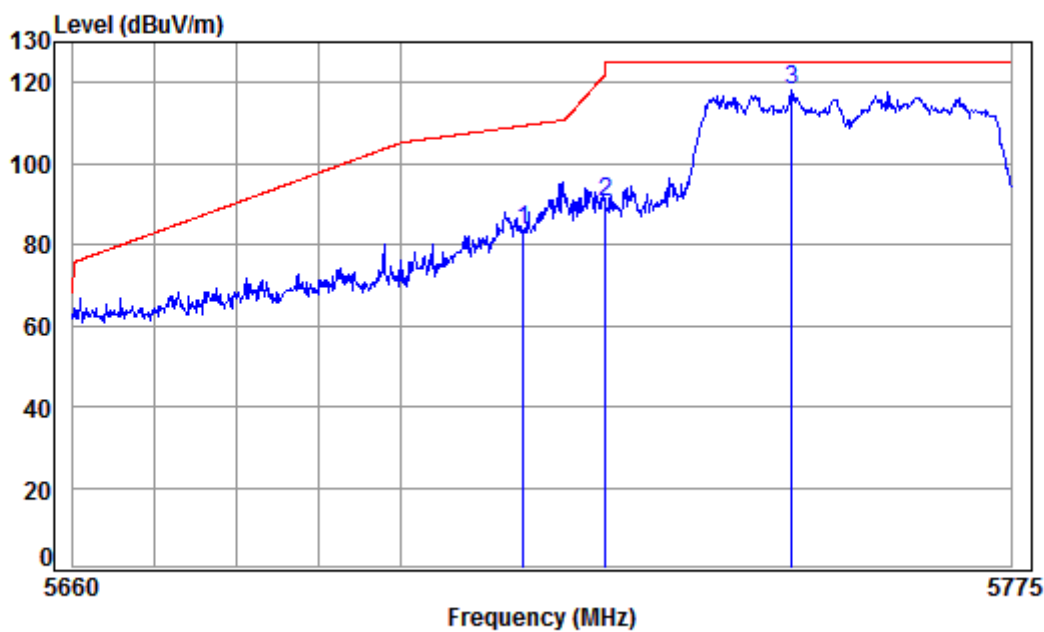
Mode: : 5825 Bandedge

: 5GWIFI-AC20

: Power=100

		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 pp	5828.592	8.58	34.60	38.33	116.63	121.48	125.20	-3.72 peak
2	5850.000	8.60	34.61	38.33	82.63	87.51	122.20	-34.69 peak
3	5860.000	8.61	34.62	38.33	72.60	77.50	109.40	-31.90 peak

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



Condition: 3m HORIZONTAL

Job No: : 04534CR

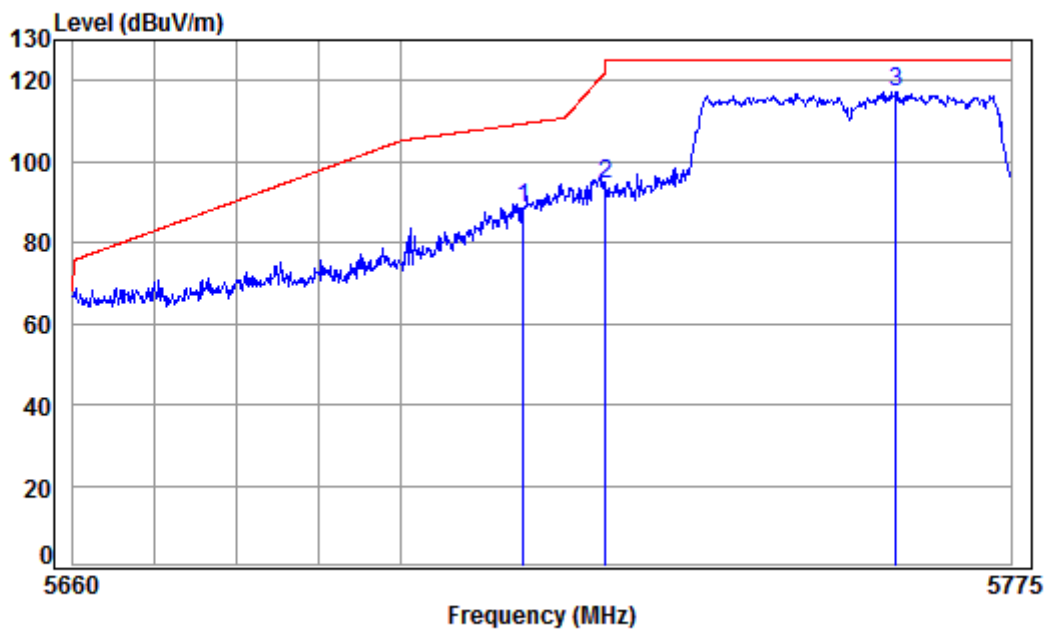
Mode: : 5755 Bandedge

: 5GWIFI-AC40

: Power=100

	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	5715.000	8.47	34.53	38.36	78.79	83.43	109.40	-25.97	peak
2	5725.000	8.48	34.54	38.35	85.67	90.34	122.20	-31.86	peak
3 pp	5747.882	8.50	34.55	38.35	113.34	118.04	125.20	-7.16	peak

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



Condition: 3m VERTICAL

Job No: : 04534CR

Mode: : 5755 Bandedge

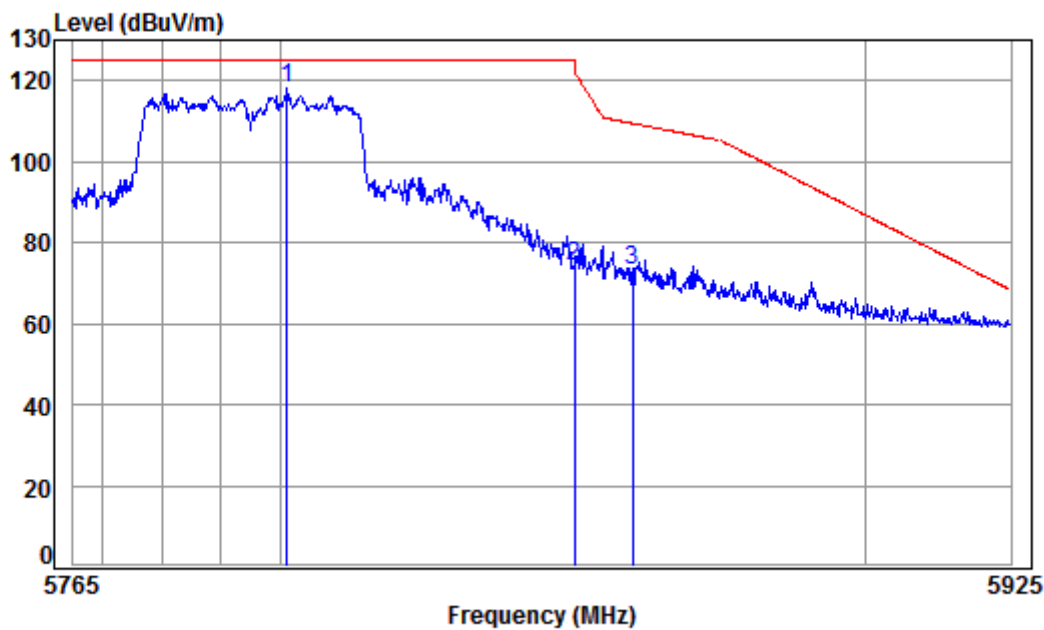
: 5GWIFI-AC40

: Power=100

		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	8.47	34.53	38.36	83.81	88.45	109.40	-20.95	peak
2	5725.000	8.48	34.54	38.35	89.58	94.25	122.20	-27.95	peak
3 pp	5760.730	8.52	34.56	38.35	112.43	117.16	125.20	-8.04	peak



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

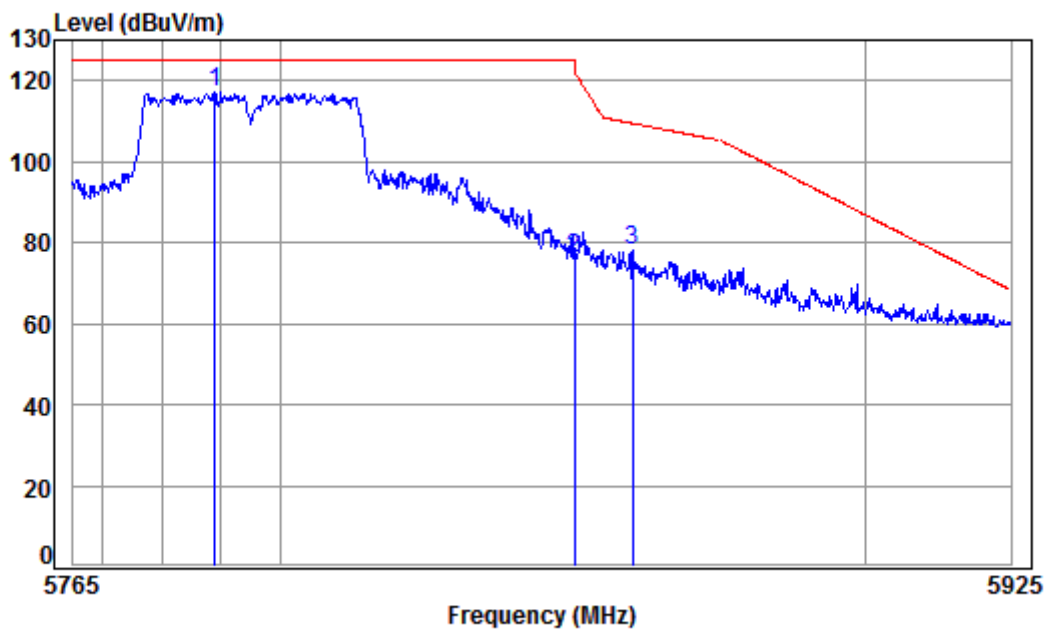


Condition: 3m HORIZONTAL
Job No: : 04534CR
Mode: : 5795 Bandedge
: 5GWIFI-AC40
: Power=100

		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 pp	5801.096	8.56	34.58	38.34	113.17	117.97	125.20	-7.23 peak
2	5850.000	8.60	34.61	38.33	69.15	74.03	122.20	-48.17 peak
3	5860.000	8.61	34.62	38.33	68.44	73.34	109.40	-36.06 peak



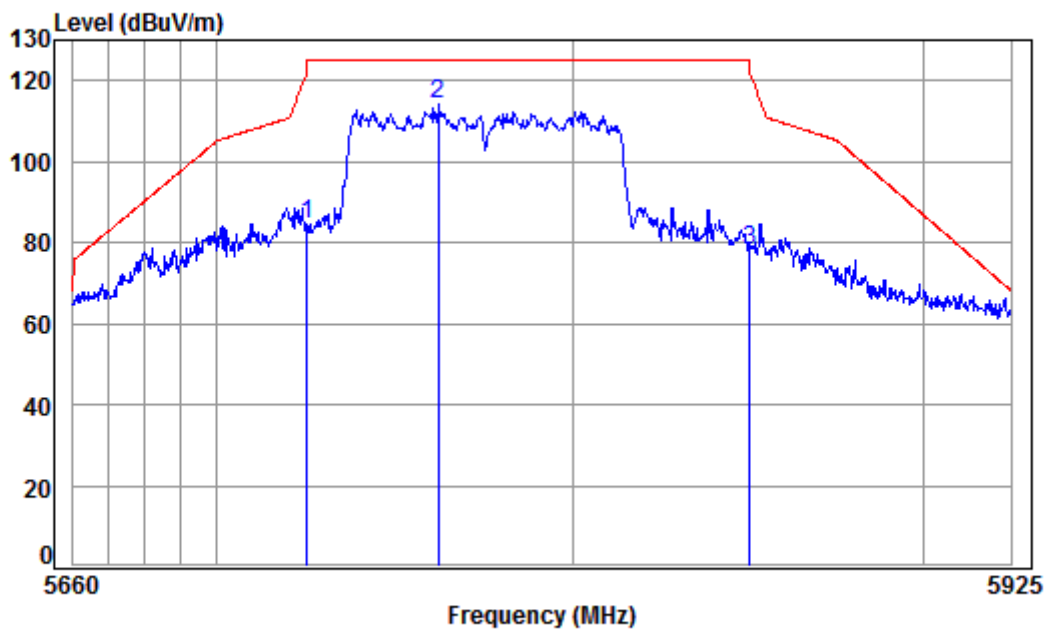
Mode:c; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No: : 04534CR
Mode: : 5795 Bandedge
: 5GWIFI-AC40
: Power=100

		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 pp	5788.880	8.54	34.58	38.34	112.43	117.21	125.20	-7.99 peak
2	5850.000	8.60	34.61	38.33	71.24	76.12	122.20	-46.08 peak
3	5860.000	8.61	34.62	38.33	73.38	78.28	109.40	-31.12 peak

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



Condition: 3m HORIZONTAL

Job No: : 04534CR

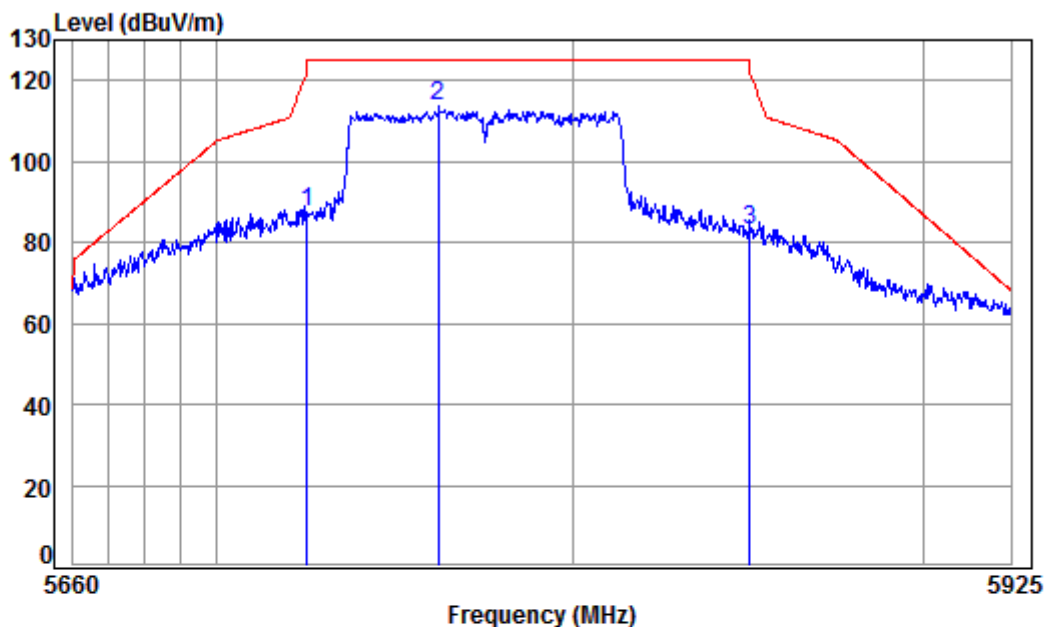
Mode: : 5775 Bandedge

: 5GWIFI-AC80

: Power=96

		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	5725.000	8.48	34.54	38.35	79.84	84.51	122.20	-37.69 peak
2	pp 5761.910	8.52	34.56	38.35	109.66	114.39	125.20	-10.81 peak
3	5850.000	8.60	34.61	38.33	73.06	77.94	122.20	-44.26 peak

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



Condition: 3m VERTICAL

Job No: : 04534CR

Mode: : 5775 Bandedge

: 5GWIFI-AC80

: Power=96

		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	5725.000	8.48	34.54	38.35	82.72	87.39	122.20	-34.81 peak
2	pp 5761.910	8.52	34.56	38.35	108.73	113.46	125.20	-11.74 peak
3	5850.000	8.60	34.61	38.33	78.09	82.97	122.20	-39.23 peak

7.9 Frequency Stability

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

7.9.1 E.U.T. Operation

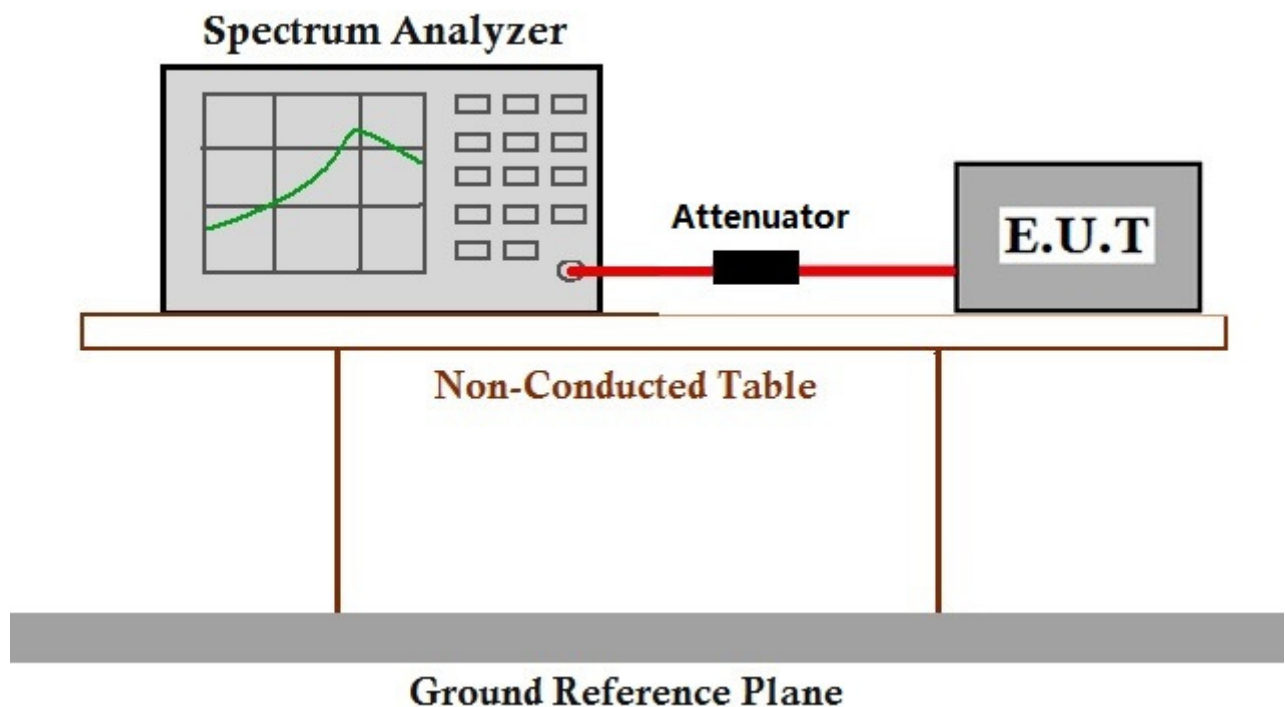
Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

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

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

7.9.2 Test Setup Diagram





7.9.3 Measurement Procedure and Data

Remark: Only the data of Ant.2 is recorded.

Test mode:	802.11a	Frequency(MHz):	5180
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Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5178.4131	Pass
35		5178.4139	Pass
25		5178.4143	Pass
15		5178.4136	Pass
5		5178.4135	Pass
-5		5178.4131	Pass
25	138	5178.4139	Pass
	120	5178.4141	Pass
	102	5178.4131	Pass

Test mode:	802.11a	Frequency(MHz):	5200
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Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5201.2286	Pass
35		5201.2295	Pass
25		5201.2299	Pass
15		5201.2293	Pass
5		5201.2287	Pass
-5		5201.2292	Pass
25	138	5201.2295	Pass
	120	5201.2304	Pass
	102	5201.2286	Pass



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Test mode:	802.11a	Frequency(MHz):	5240
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Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5240.8440	Pass
35		5240.8443	Pass
25		5240.8451	Pass
15		5240.8445	Pass
5		5240.8443	Pass
-5		5240.8435	Pass
25	138	5240.8443	Pass
	120	5240.8444	Pass
	102	5240.8440	Pass

Test mode:	802.11a	Frequency(MHz):	5745
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Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5744.6468	Pass
35		5744.6475	Pass
25		5744.6485	Pass
15		5744.6483	Pass
5		5744.6479	Pass
-5		5744.6466	Pass
25	138	5744.6475	Pass
	120	5744.6482	Pass
	102	5744.6468	Pass



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Test mode:	802.11a	Frequency(MHz):	5785
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Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5784.7003	Pass
35		5784.7008	Pass
25		5784.7013	Pass
15		5784.7008	Pass
5		5784.7001	Pass
-5		5784.7003	Pass
25	138	5784.7008	Pass
	120	5784.7012	Pass
	102	5784.7003	Pass

Test mode:	802.11a	Frequency(MHz):	5825
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Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5823.9275	Pass
35		5823.9283	Pass
25		5823.9291	Pass
15		5823.9284	Pass
5		5823.9275	Pass
-5		5823.9280	Pass
25	138	5823.9283	Pass
	120	5823.9284	Pass
	102	5823.9275	Pass



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Test mode:	802.11n(HT20)	Frequency(MHz):	5180
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Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5178.5980	Pass
35		5178.5984	Pass
25		5178.5985	Pass
15		5178.5981	Pass
5		5178.5973	Pass
-5		5178.5979	Pass
25	138	5178.5984	Pass
	120	5178.5989	Pass
	102	5178.5980	Pass

Test mode:	802.11n(HT20)	Frequency(MHz):	5200
------------	---------------	-----------------	------

Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5198.5427	Pass
35		5198.5430	Pass
25		5198.5434	Pass
15		5198.5426	Pass
5		5198.5423	Pass
-5		5198.5424	Pass
25	138	5198.5430	Pass
	120	5198.5437	Pass
	102	5198.5427	Pass



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Test mode:	802.11n(HT20)	Frequency(MHz):	5240
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Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5238.9035	Pass
35		5238.9037	Pass
25		5238.9043	Pass
15		5238.9034	Pass
5		5238.9032	Pass
-5		5238.9033	Pass
25	138	5238.9037	Pass
	120	5238.9040	Pass
	102	5238.9035	Pass

Test mode:	802.11n(HT20)	Frequency(MHz):	5745
------------	---------------	-----------------	------

Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5744.5318	Pass
35		5744.5328	Pass
25		5744.5336	Pass
15		5744.5329	Pass
5		5744.5321	Pass
-5		5744.5322	Pass
25	138	5744.5328	Pass
	120	5744.5334	Pass
	102	5744.5318	Pass



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Test mode:	802.11n(HT20)	Frequency(MHz):	5785
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Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5786.0588	Pass
35		5786.0594	Pass
25		5786.0599	Pass
15		5786.0589	Pass
5		5786.0580	Pass
-5		5786.0587	Pass
25	138	5786.0594	Pass
	120	5786.0599	Pass
	102	5786.0588	Pass

Test mode:	802.11n(HT20)	Frequency(MHz):	5825
------------	---------------	-----------------	------

Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5823.6492	Pass
35		5823.6496	Pass
25		5823.6499	Pass
15		5823.6490	Pass
5		5823.6488	Pass
-5		5823.6493	Pass
25	138	5823.6496	Pass
	120	5823.6506	Pass
	102	5823.6492	Pass



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Test mode:	802.11n(HT40)	Frequency(MHz):	5190
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Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5188.4191	Pass
35		5188.4201	Pass
25		5188.4207	Pass
15		5188.4198	Pass
5		5188.4191	Pass
-5		5188.4192	Pass
25	138	5188.4201	Pass
	120	5188.4209	Pass
	102	5188.4191	Pass

Test mode:	802.11n(HT40)	Frequency(MHz):	5230
------------	---------------	-----------------	------

Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5228.8355	Pass
35		5228.8361	Pass
25		5228.8364	Pass
15		5228.8360	Pass
5		5228.8358	Pass
-5		5228.8353	Pass
25	138	5228.8361	Pass
	120	5228.8365	Pass
	102	5228.8355	Pass



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Test mode:	802.11n(HT40)	Frequency(MHz):	5755
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Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5755.6756	Pass
35		5755.6762	Pass
25		5755.6766	Pass
15		5755.6759	Pass
5		5755.6757	Pass
-5		5755.6754	Pass
25	138	5755.6762	Pass
	120	5755.6771	Pass
	102	5755.6756	Pass

Test mode:	802.11n(HT40)	Frequency(MHz):	5795
------------	---------------	-----------------	------

Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5795.9232	Pass
35		5795.9242	Pass
25		5795.9247	Pass
15		5795.9246	Pass
5		5795.9240	Pass
-5		5795.9234	Pass
25	138	5795.9242	Pass
	120	5795.9248	Pass
	102	5795.9232	Pass



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Test mode:	802.11ac(HT20)	Frequency(MHz):	5180
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Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5180.8810	Pass
35		5180.8811	Pass
25		5180.8814	Pass
15		5180.8809	Pass
5		5180.8801	Pass
-5		5180.8803	Pass
25	138	5180.8811	Pass
	120	5180.8817	Pass
	102	5180.8810	Pass

Test mode:	802.11ac(HT20)	Frequency(MHz):	5200
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Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5200.9257	Pass
35		5200.9262	Pass
25		5200.9269	Pass
15		5200.9259	Pass
5		5200.9256	Pass
-5		5200.9257	Pass
25	138	5200.9262	Pass
	120	5200.9267	Pass
	102	5200.9257	Pass



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Test mode:	802.11ac(HT20)	Frequency(MHz):	5240
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Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5238.7616	Pass
35		5238.7623	Pass
25		5238.7626	Pass
15		5238.7618	Pass
5		5238.7612	Pass
-5		5238.7615	Pass
25	138	5238.7623	Pass
	120	5238.7628	Pass
	102	5238.7616	Pass

Test mode:	802.11ac(HT20)	Frequency(MHz):	5745
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Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5743.7654	Pass
35		5743.7664	Pass
25		5743.7666	Pass
15		5743.7658	Pass
5		5743.7657	Pass
-5		5743.7659	Pass
25	138	5743.7664	Pass
	120	5743.7665	Pass
	102	5743.7654	Pass



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Test mode:	802.11ac(HT20)	Frequency(MHz):	5785
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Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5782.9746	Pass
35		5782.9754	Pass
25		5782.9758	Pass
15		5782.9748	Pass
5		5782.9740	Pass
-5		5782.9747	Pass
25	138	5782.9754	Pass
	120	5782.9755	Pass
	102	5782.9746	Pass

Test mode:	802.11ac(HT20)	Frequency(MHz):	5825
------------	----------------	-----------------	------

Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5823.4316	Pass
35		5823.4324	Pass
25		5823.4325	Pass
15		5823.4318	Pass
5		5823.4315	Pass
-5		5823.4318	Pass
25	138	5823.4324	Pass
	120	5823.4329	Pass
	102	5823.4316	Pass



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Test mode:	802.11ac(HT40)	Frequency(MHz):	5190
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Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5190.0606	Pass
35		5190.0615	Pass
25		5190.0619	Pass
15		5190.0612	Pass
5		5190.0603	Pass
-5		5190.0608	Pass
25	138	5190.0615	Pass
	120	5190.0619	Pass
	102	5190.0606	Pass

Test mode:	802.11ac(HT40)	Frequency(MHz):	5230
------------	----------------	-----------------	------

Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5230.4049	Pass
35		5230.4057	Pass
25		5230.4064	Pass
15		5230.4054	Pass
5		5230.4049	Pass
-5		5230.4051	Pass
25	138	5230.4057	Pass
	120	5230.4066	Pass
	102	5230.4049	Pass



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Test mode:	802.11ac(HT40)	Frequency(MHz):	5755
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Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5754.5017	Pass
35		5754.5020	Pass
25		5754.5022	Pass
15		5754.5019	Pass
5		5754.5015	Pass
-5		5754.5016	Pass
25	138	5754.5020	Pass
	120	5754.5023	Pass
	102	5754.5017	Pass

Test mode:	802.11ac(HT40)	Frequency(MHz):	5795
------------	----------------	-----------------	------

Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5796.8951	Pass
35		5796.8955	Pass
25		5796.8958	Pass
15		5796.8954	Pass
5		5796.8952	Pass
-5		5796.8954	Pass
25	138	5796.8955	Pass
	120	5796.8962	Pass
	102	5796.8951	Pass



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Test mode:	802.11ac(HT80)	Frequency(MHz):	5210
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Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5211.5264	Pass
35		5211.5266	Pass
25		5211.5274	Pass
15		5211.5270	Pass
5		5211.5263	Pass
-5		5211.5265	Pass
25	138	5211.5266	Pass
	120	5211.5275	Pass
	102	5211.5264	Pass

Test mode:	802.11ac(HT80)	Frequency(MHz):	5775
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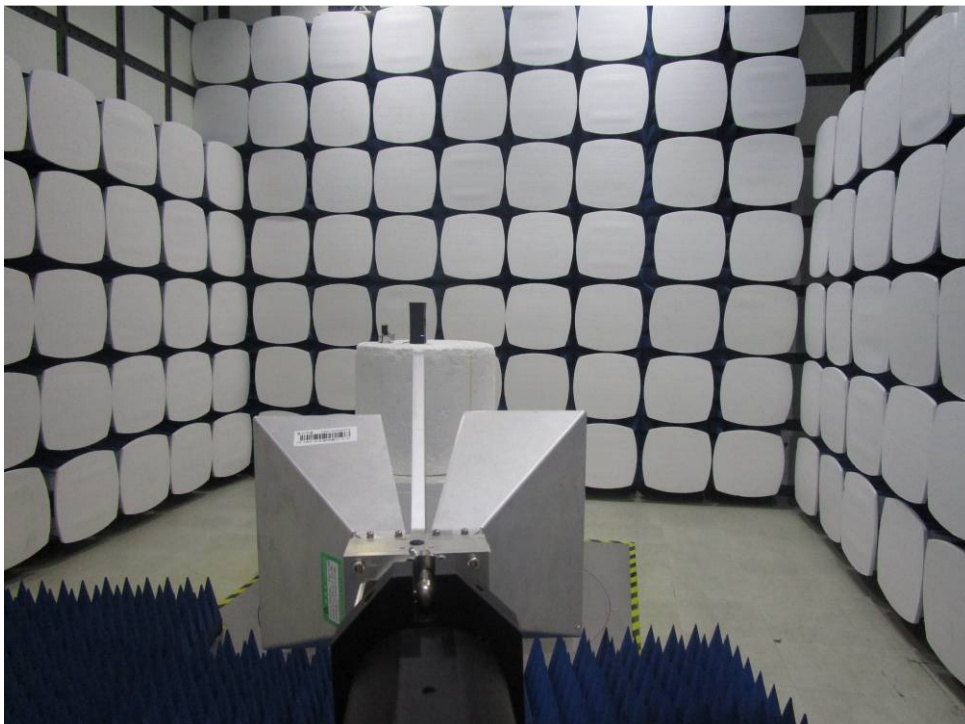
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Result
45	120	5776.1143	Pass
35		5776.1148	Pass
25		5776.1154	Pass
15		5776.1144	Pass
5		5776.1137	Pass
-5		5776.1143	Pass
25	138	5776.1148	Pass
	120	5776.1155	Pass
	102	5776.1143	Pass

8 Photographs

8.1 Conducted Disturbance at AC Power Line (150kHz-30MHz) Test Setup



8.2 Radiated Emissions Test Setup





8.3 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1705004534CR.



9 Appendix

9.1 Appendix 15.407

1. Emission Bandwidth Measurement

11A	5180	Ant2	21.840	---	PASS
11A	5180	Ant3	21.900	---	PASS
11A	5180	Ant4	22.410	---	PASS
11A	5180	Ant5	21.870	---	PASS
11A	5200	Ant2	23.220	---	PASS
11A	5200	Ant3	24.270	---	PASS
11A	5200	Ant4	22.020	---	PASS
11A	5200	Ant5	22.020	---	PASS
11A	5240	Ant2	22.470	---	PASS
11A	5240	Ant3	27.120	---	PASS
11A	5240	Ant4	22.020	---	PASS
11A	5240	Ant5	22.020	---	PASS
11A	5745	Ant2	16.440	≥ 0.5	PASS
11A	5745	Ant3	16.440	≥ 0.5	PASS
11A	5745	Ant4	16.440	≥ 0.5	PASS
11A	5745	Ant5	16.410	≥ 0.5	PASS
11A	5785	Ant2	16.410	≥ 0.5	PASS
11A	5785	Ant3	16.440	≥ 0.5	PASS
11A	5785	Ant4	16.440	≥ 0.5	PASS
11A	5785	Ant5	16.410	≥ 0.5	PASS
11A	5825	Ant2	16.410	≥ 0.5	PASS
11A	5825	Ant3	16.470	≥ 0.5	PASS
11A	5825	Ant4	16.410	≥ 0.5	PASS
11A	5825	Ant5	16.440	≥ 0.5	PASS
11N20	5180	Ant2	21.750	---	PASS
11N20	5180	Ant3	21.930	---	PASS
11N20	5180	Ant4	21.810	---	PASS
11N20	5180	Ant5	22.050	---	PASS
11N20	5200	Ant2	21.900	---	PASS
11N20	5200	Ant3	21.900	---	PASS
11N20	5200	Ant4	21.840	---	PASS
11N20	5200	Ant5	22.170	---	PASS
11N20	5240	Ant2	21.840	---	PASS
11N20	5240	Ant3	21.750	---	PASS
11N20	5240	Ant4	21.690	---	PASS
11N20	5240	Ant5	21.870	---	PASS
11N20	5745	Ant2	17.670	≥ 0.5	PASS
11N20	5745	Ant3	17.670	≥ 0.5	PASS
11N20	5745	Ant4	17.730	≥ 0.5	PASS



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11N20	5745	Ant5	17.670	>=0.5	PASS
11N20	5785	Ant2	17.670	>=0.5	PASS
11N20	5785	Ant3	17.670	>=0.5	PASS
11N20	5785	Ant4	17.700	>=0.5	PASS
11N20	5785	Ant5	17.670	>=0.5	PASS
11N20	5825	Ant2	17.670	>=0.5	PASS
11N20	5825	Ant3	17.670	>=0.5	PASS
11N20	5825	Ant4	17.670	>=0.5	PASS
11N20	5825	Ant5	17.670	>=0.5	PASS
11N40	5190	Ant2	40.080	---	PASS
11N40	5190	Ant3	40.380	---	PASS
11N40	5190	Ant4	40.140	---	PASS
11N40	5190	Ant5	40.560	---	PASS
11N40	5230	Ant2	39.960	---	PASS
11N40	5230	Ant3	40.560	---	PASS
11N40	5230	Ant4	40.260	---	PASS
11N40	5230	Ant5	40.680	---	PASS
11N40	5755	Ant2	36.540	>=0.5	PASS
11N40	5755	Ant3	36.540	>=0.5	PASS
11N40	5755	Ant4	36.480	>=0.5	PASS
11N40	5755	Ant5	36.540	>=0.5	PASS
11N40	5795	Ant2	36.540	>=0.5	PASS
11N40	5795	Ant3	36.480	>=0.5	PASS
11N40	5795	Ant4	36.480	>=0.5	PASS
11N40	5795	Ant5	36.480	>=0.5	PASS
11AC20	5180	Ant2	21.810	---	PASS
11AC20	5180	Ant3	21.720	---	PASS
11AC20	5180	Ant4	22.260	---	PASS
11AC20	5180	Ant5	21.930	---	PASS
11AC20	5200	Ant2	21.720	---	PASS
11AC20	5200	Ant3	21.810	---	PASS
11AC20	5200	Ant4	22.020	---	PASS
11AC20	5200	Ant5	22.140	---	PASS
11AC20	5240	Ant2	21.750	---	PASS
11AC20	5240	Ant3	21.810	---	PASS
11AC20	5240	Ant4	21.810	---	PASS
11AC20	5240	Ant5	22.080	---	PASS
11AC20	5745	Ant2	17.670	>=0.5	PASS
11AC20	5745	Ant3	17.700	>=0.5	PASS
11AC20	5745	Ant4	17.670	>=0.5	PASS
11AC20	5745	Ant5	17.670	>=0.5	PASS
11AC20	5785	Ant2	17.670	>=0.5	PASS
11AC20	5785	Ant3	17.700	>=0.5	PASS
11AC20	5785	Ant4	17.670	>=0.5	PASS
11AC20	5785	Ant5	17.670	>=0.5	PASS

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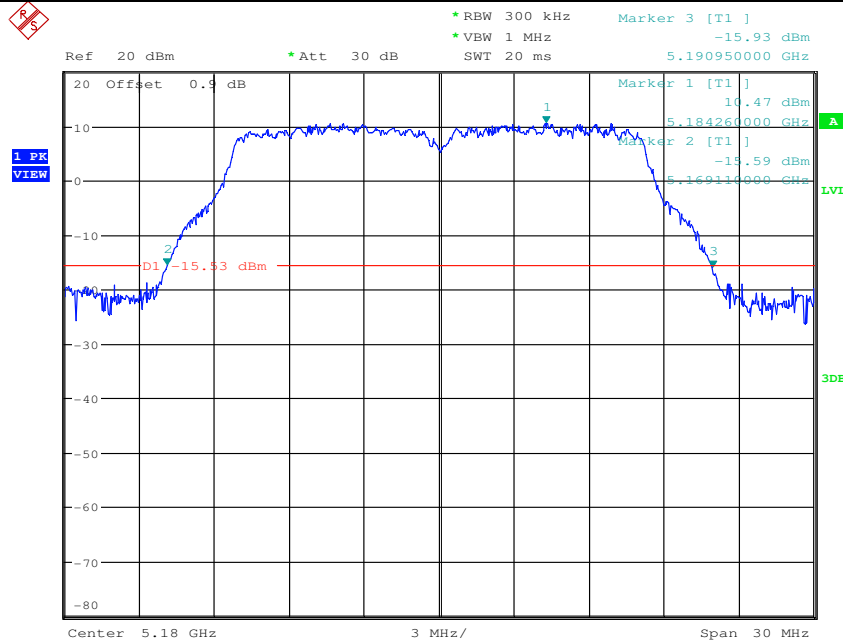
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11AC20	5825	Ant2	17.670	>=0.5	PASS
11AC20	5825	Ant3	17.670	>=0.5	PASS
11AC20	5825	Ant4	17.670	>=0.5	PASS
11AC20	5825	Ant5	17.700	>=0.5	PASS
11AC40	5190	Ant2	40.200	---	PASS
11AC40	5190	Ant3	40.260	---	PASS
11AC40	5190	Ant4	40.020	---	PASS
11AC40	5190	Ant5	40.500	---	PASS
11AC40	5230	Ant2	40.140	---	PASS
11AC40	5230	Ant3	40.620	---	PASS
11AC40	5230	Ant4	40.320	---	PASS
11AC40	5230	Ant5	40.500	---	PASS
11AC40	5755	Ant2	36.480	>=0.5	PASS
11AC40	5755	Ant3	36.480	>=0.5	PASS
11AC40	5755	Ant4	36.480	>=0.5	PASS
11AC40	5755	Ant5	36.480	>=0.5	PASS
11AC40	5795	Ant2	36.420	>=0.5	PASS
11AC40	5795	Ant3	36.480	>=0.5	PASS
11AC40	5795	Ant4	36.480	>=0.5	PASS
11AC40	5795	Ant5	36.480	>=0.5	PASS
11AC80	5210	Ant2	81.600	---	PASS
11AC80	5210	Ant3	81.600	---	PASS
11AC80	5210	Ant4	81.720	---	PASS
11AC80	5210	Ant5	82.200	---	PASS
11AC80	5775	Ant2	76.440	>=0.5	PASS
11AC80	5775	Ant3	76.560	>=0.5	PASS
11AC80	5775	Ant4	76.560	>=0.5	PASS
11AC80	5775	Ant5	76.560	>=0.5	PASS

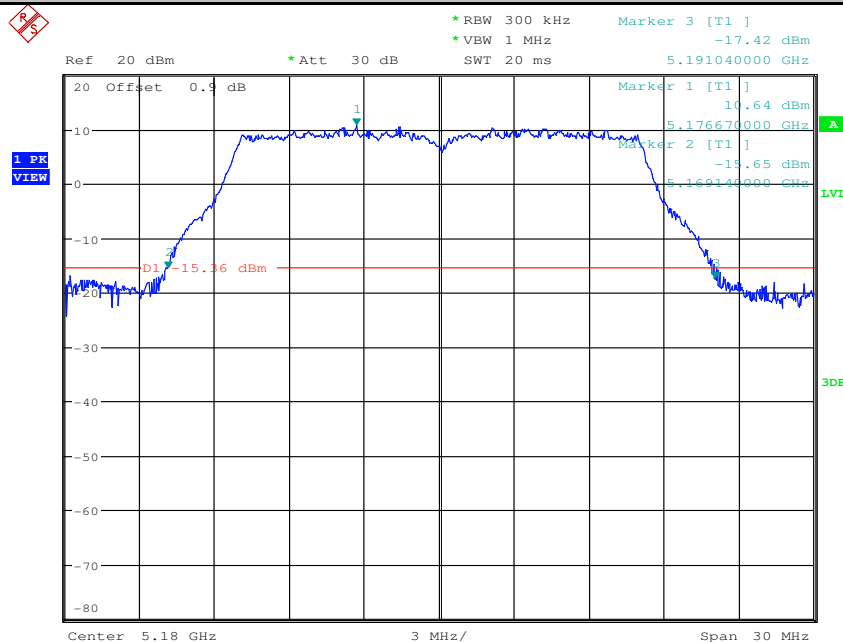


TEST PLOT

Emission Bandwidth Measurement_11A_5180_Ant2

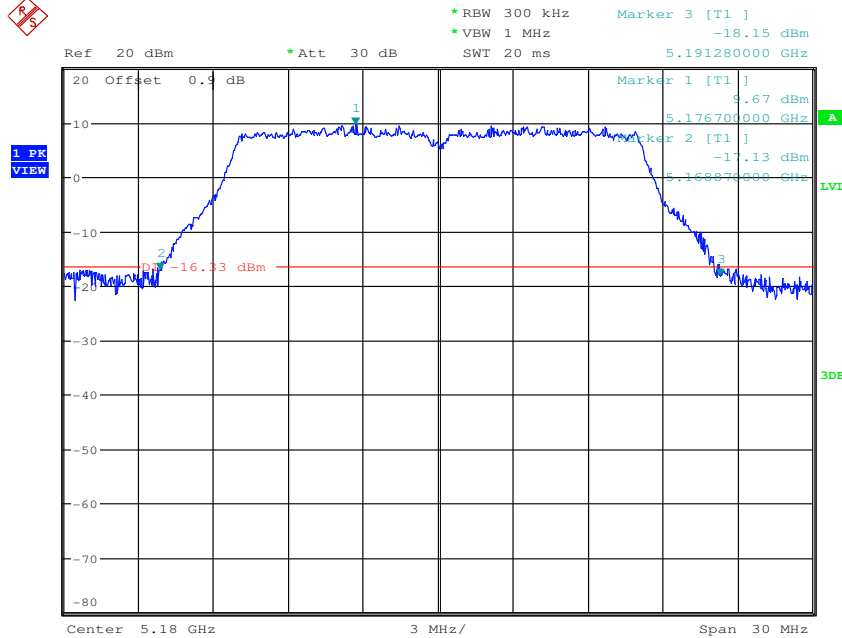


Emission Bandwidth Measurement_11A_5180_Ant3

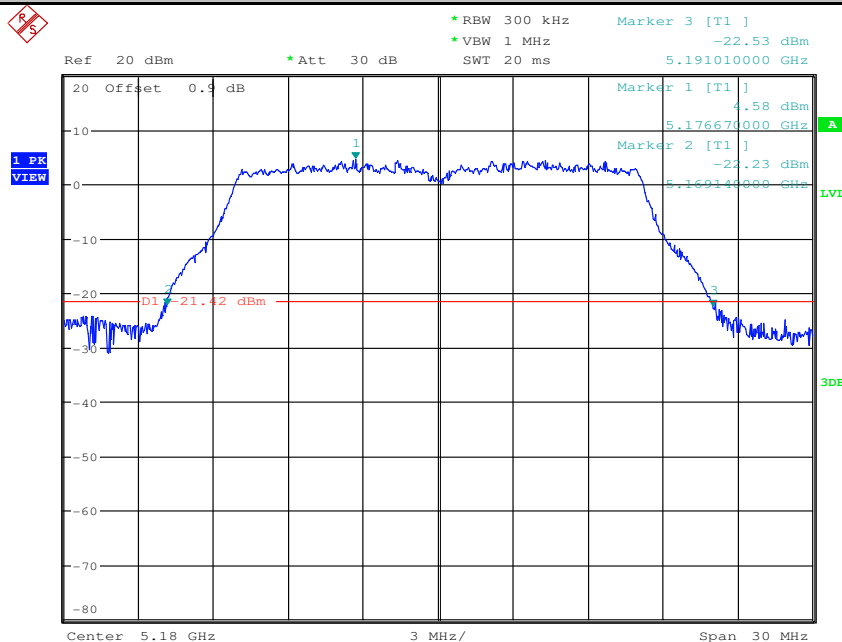




Emission Bandwidth Measurement_11A_5180_Ant4

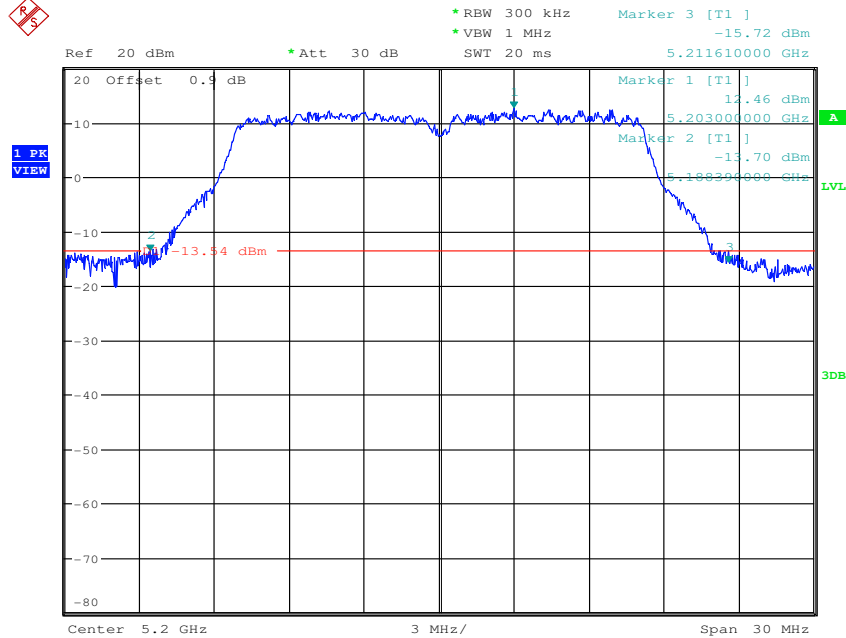


Emission Bandwidth Measurement_11A_5180_Ant5

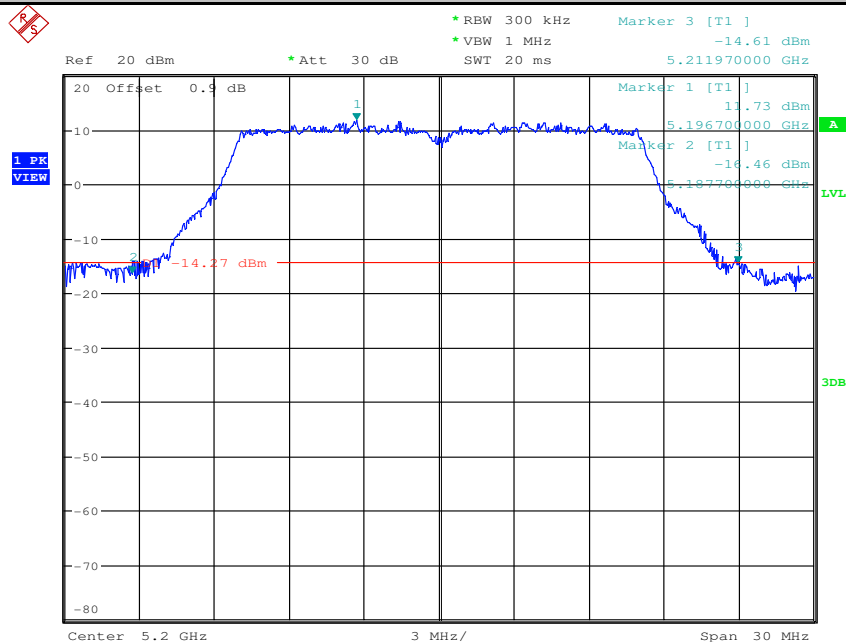




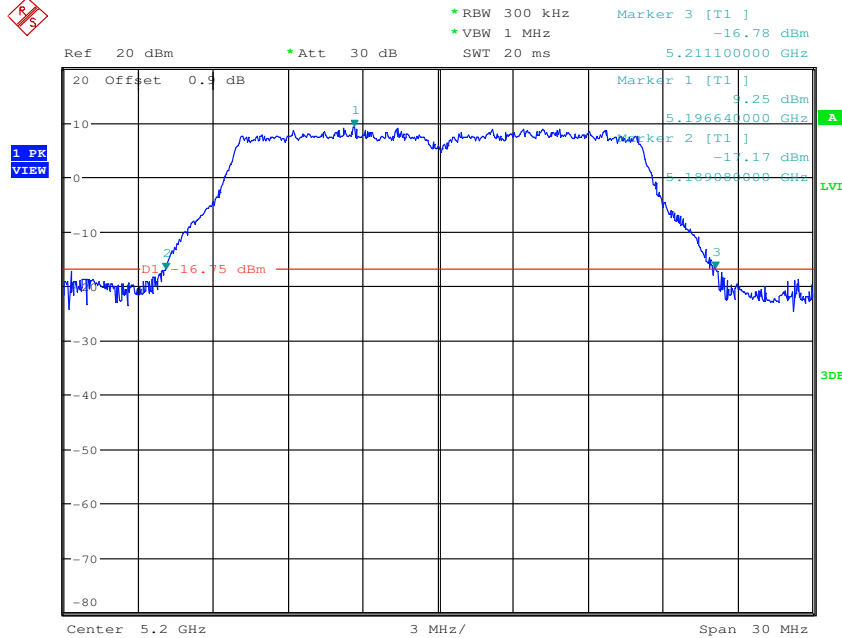
Emission Bandwidth Measurement_11A_5200_Ant2



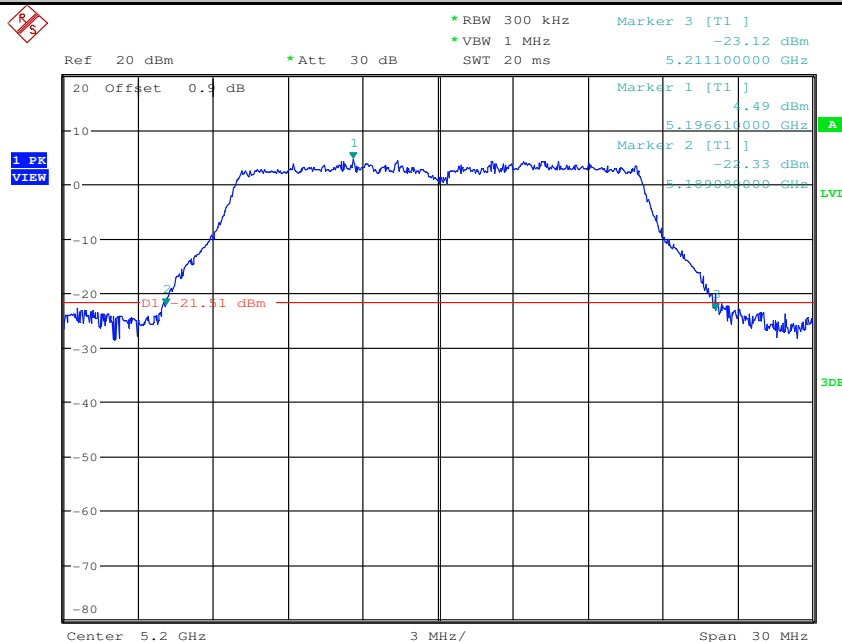
Emission Bandwidth Measurement_11A_5200_Ant3



Emission Bandwidth Measurement_11A_5200_Ant4

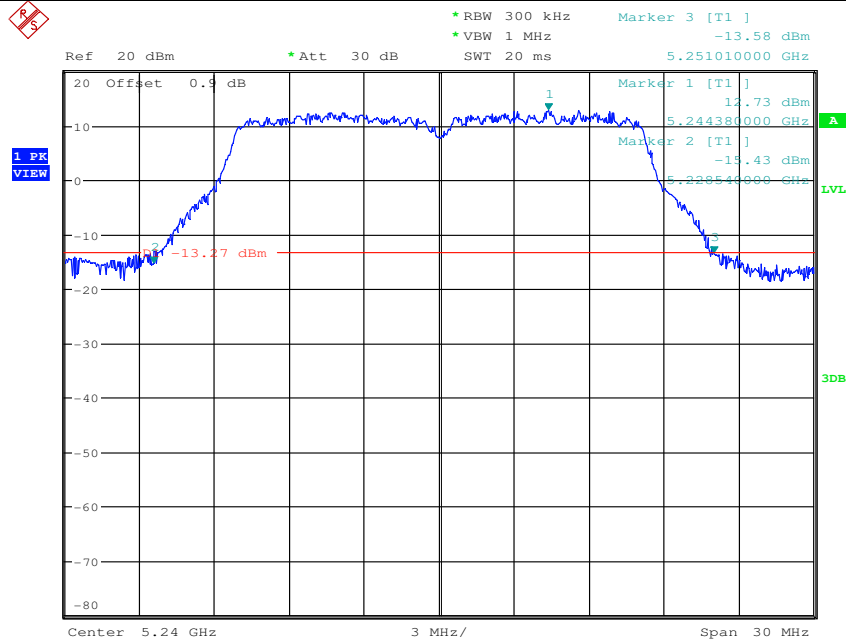


Emission Bandwidth Measurement_11A_5200_Ant5

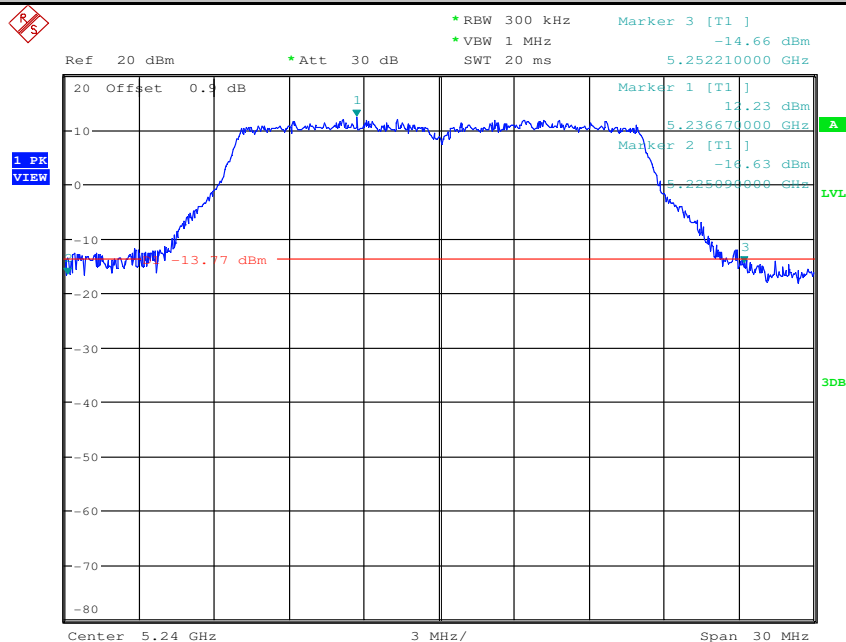




Emission Bandwidth Measurement_11A_5240_Ant2

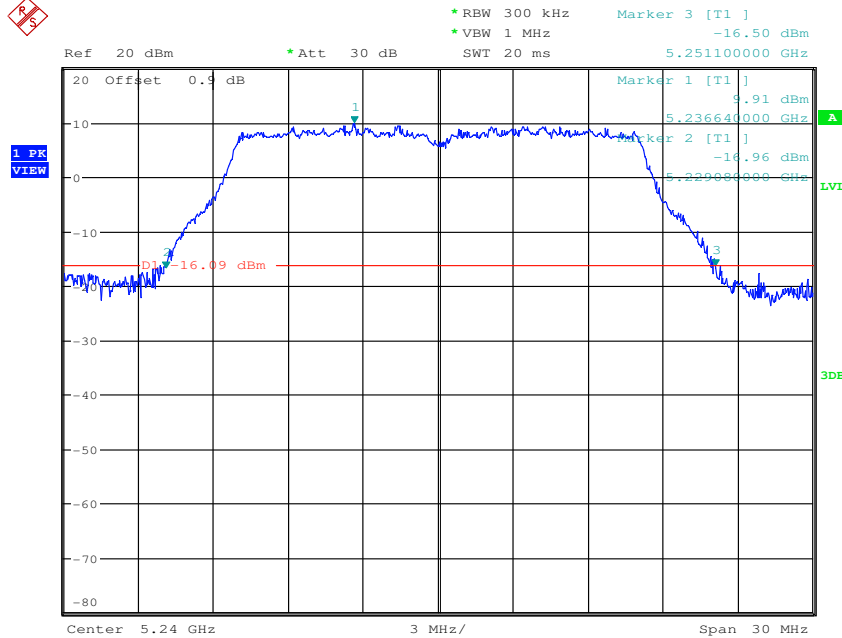


Emission Bandwidth Measurement_11A_5240_Ant3

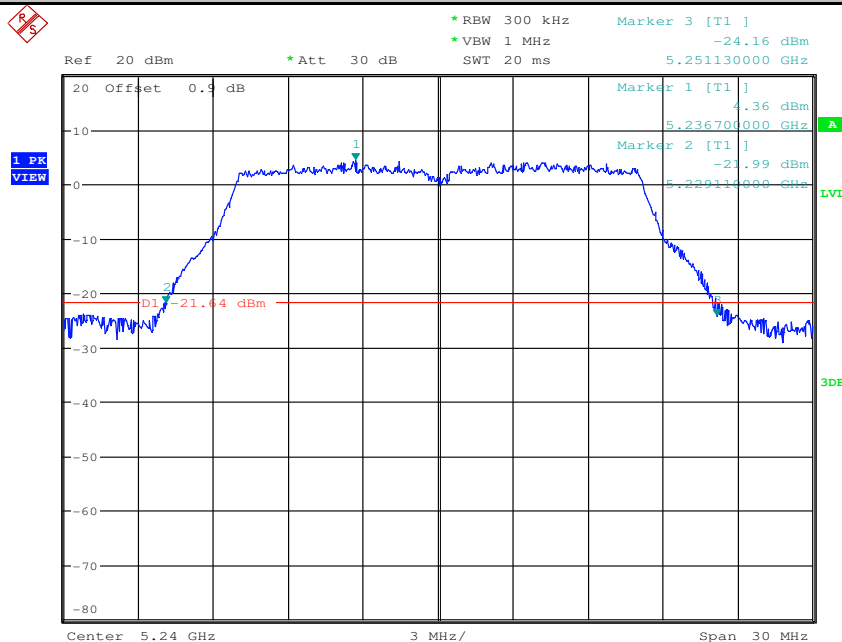




Emission Bandwidth Measurement_11A_5240_Ant4

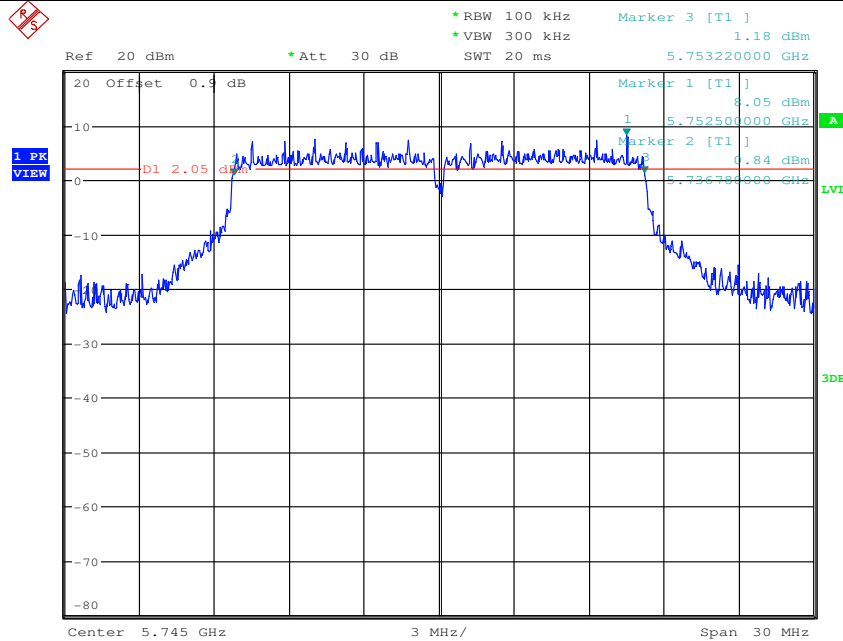


Emission Bandwidth Measurement_11A_5240_Ant5

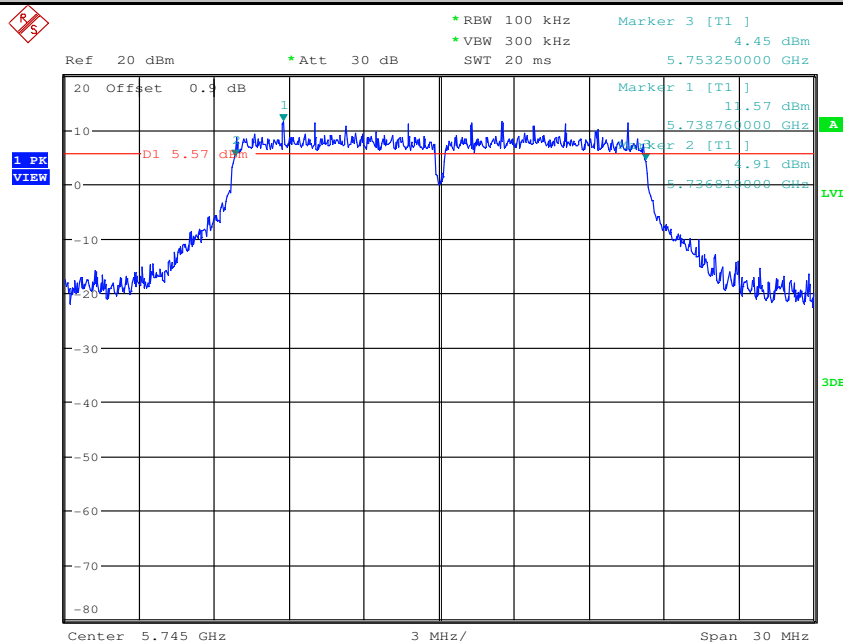




Emission Bandwidth Measurement_11A_5745_Ant2

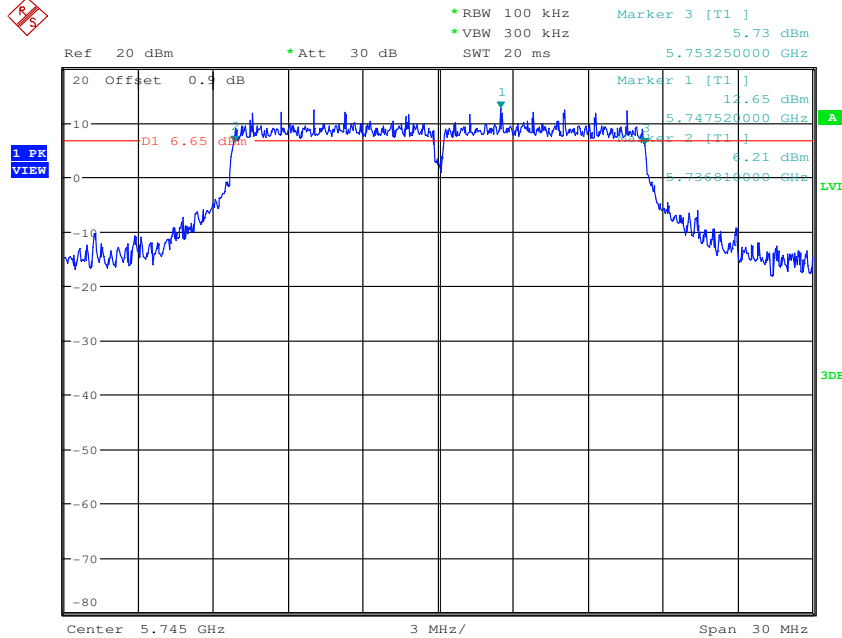


Emission Bandwidth Measurement_11A_5745_Ant3

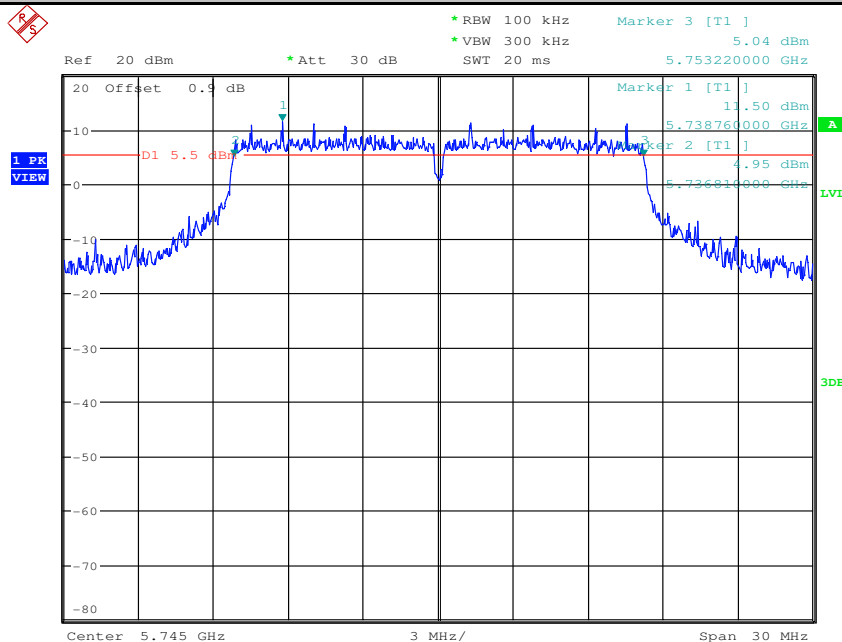




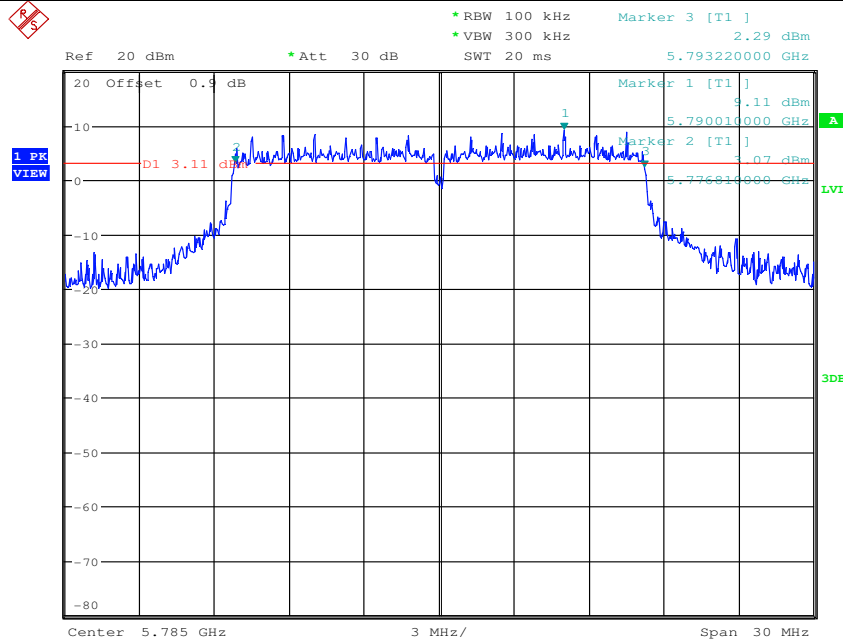
Emission Bandwidth Measurement_11A_5745_Ant4



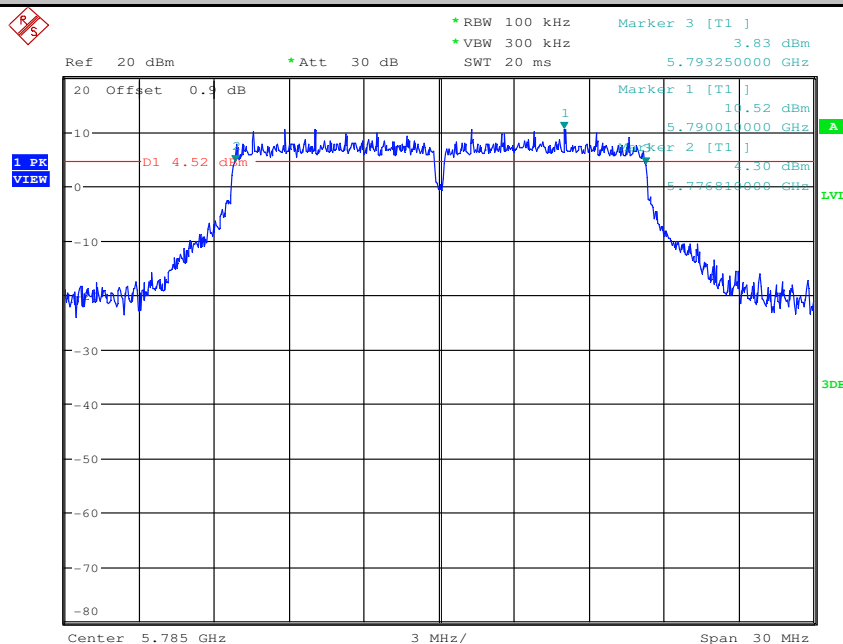
Emission Bandwidth Measurement_11A_5745_Ant5



Emission Bandwidth Measurement_11A_5785_Ant2

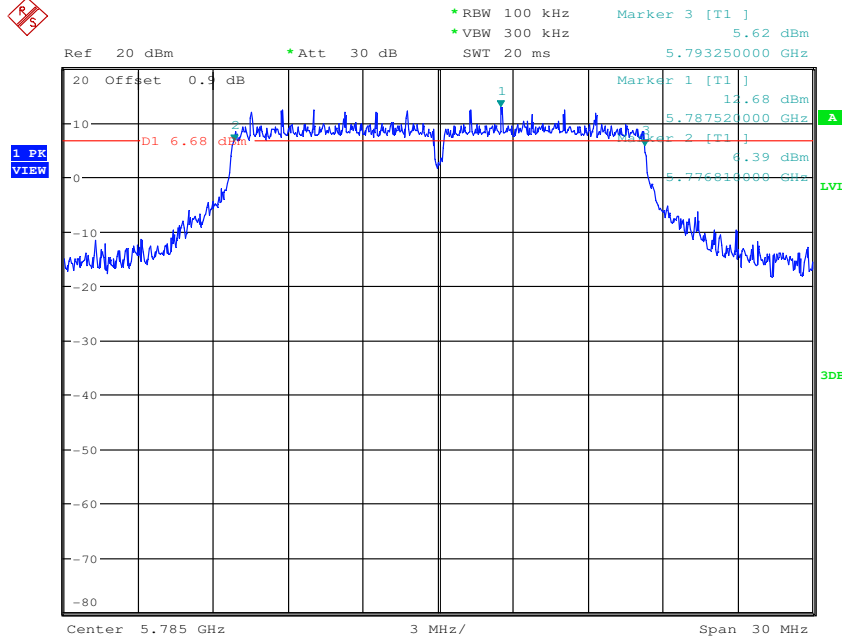


Emission Bandwidth Measurement_11A_5785_Ant3

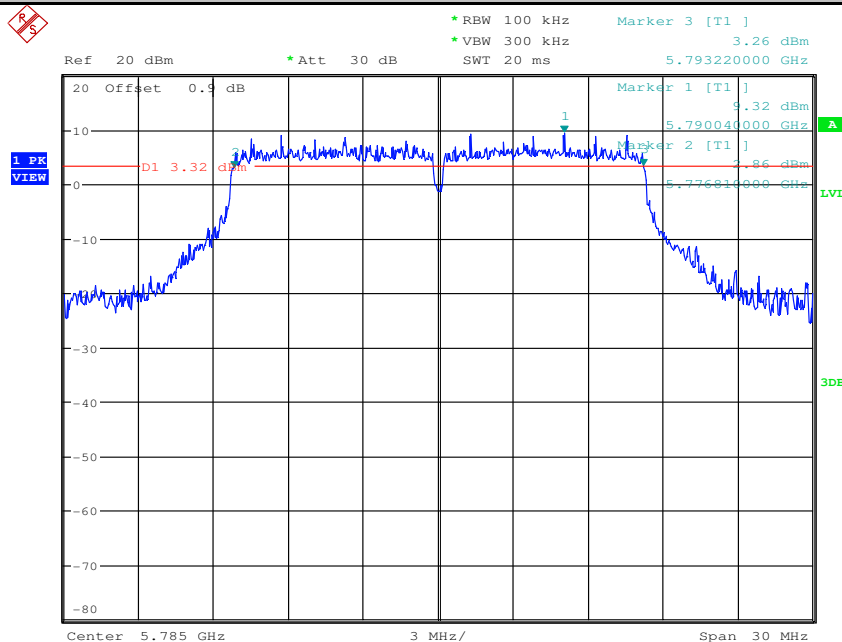




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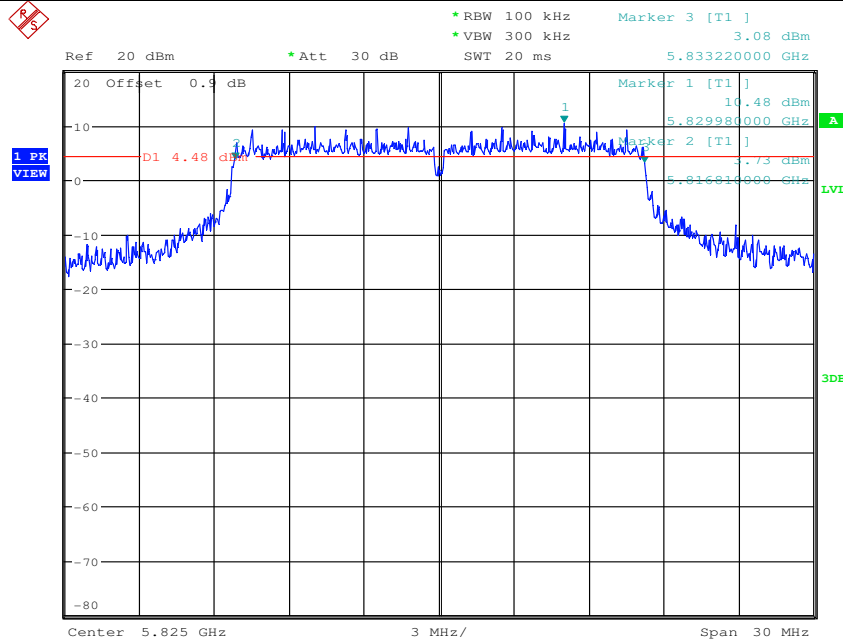


Emission Bandwidth Measurement_11A_5785_Ant5

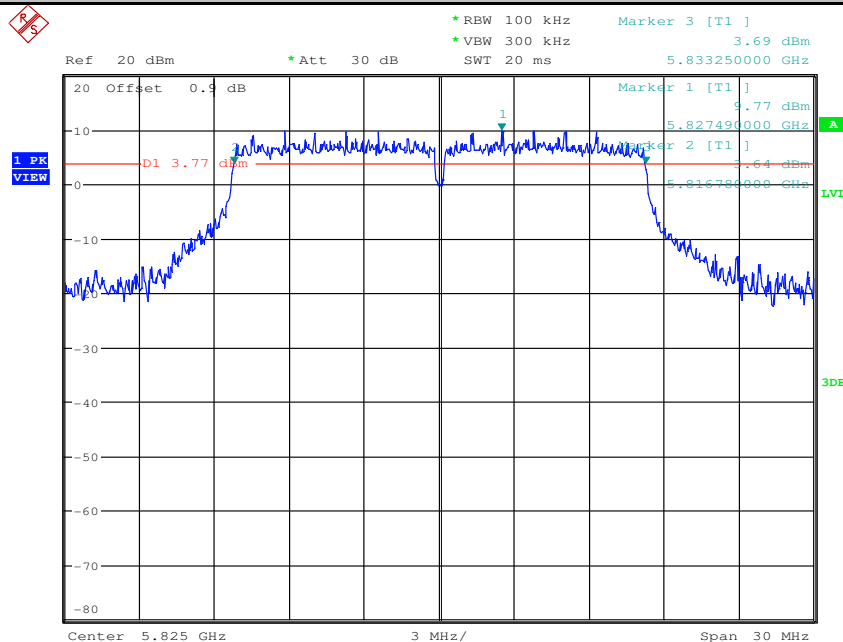




Emission Bandwidth Measurement_11A_5825_Ant2

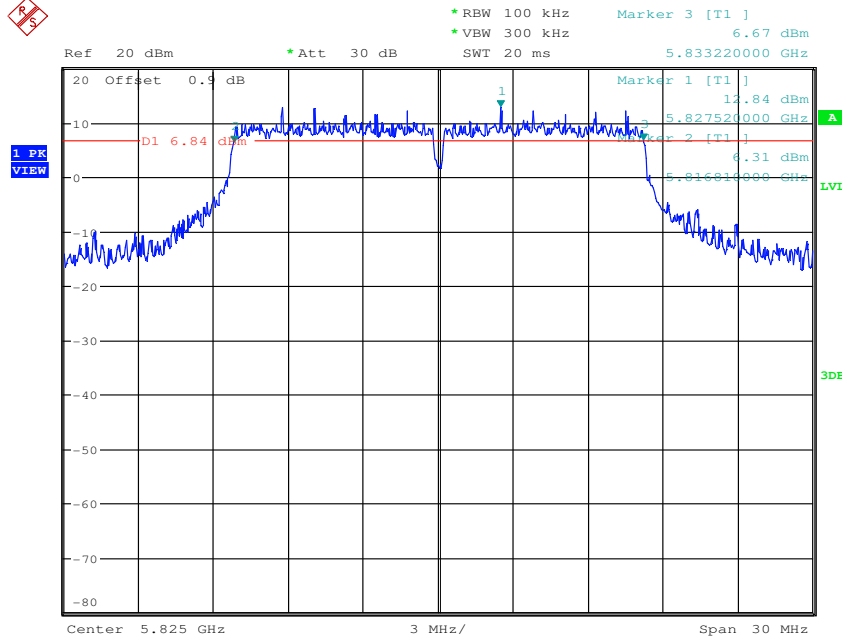


Emission Bandwidth Measurement_11A_5825_Ant3

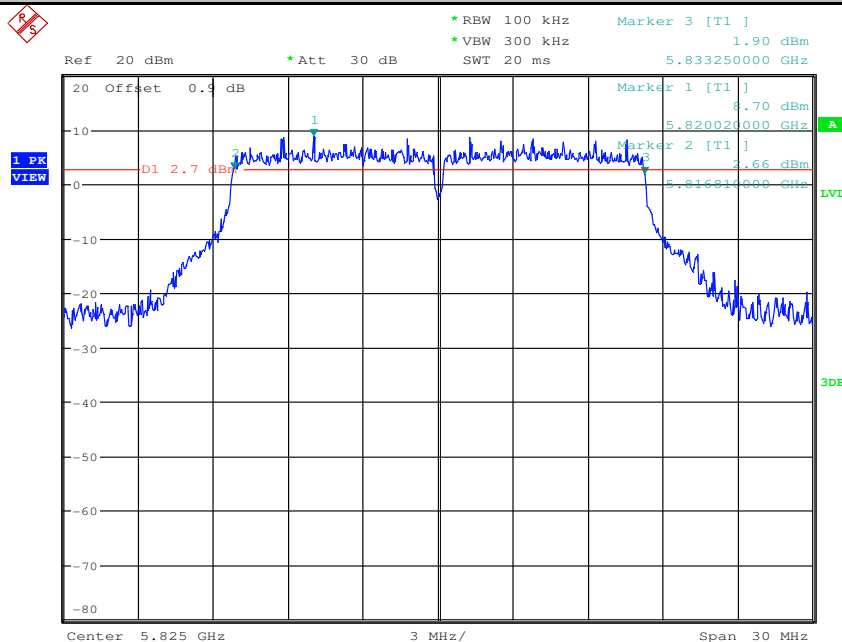




Emission Bandwidth Measurement_11A_5825_Ant4

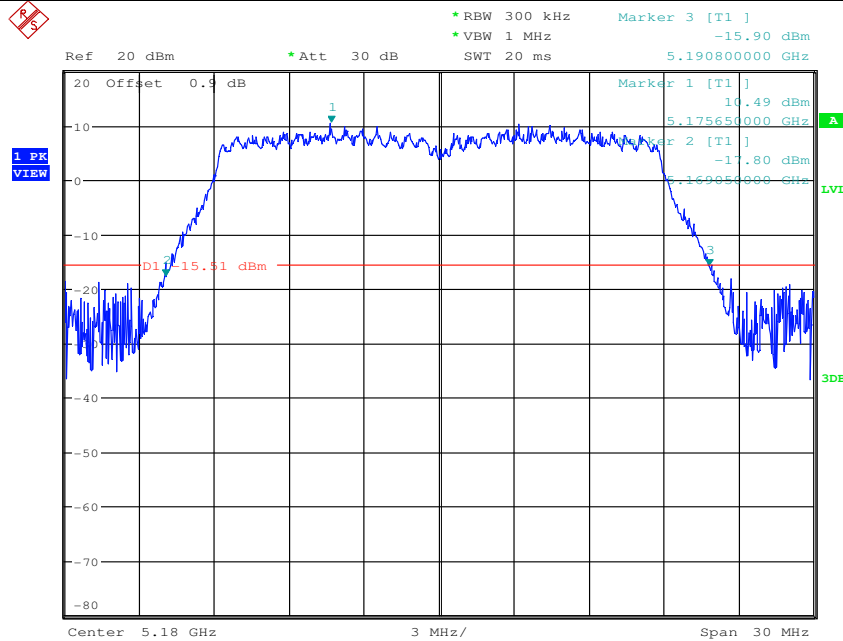


Emission Bandwidth Measurement_11A_5825_Ant5

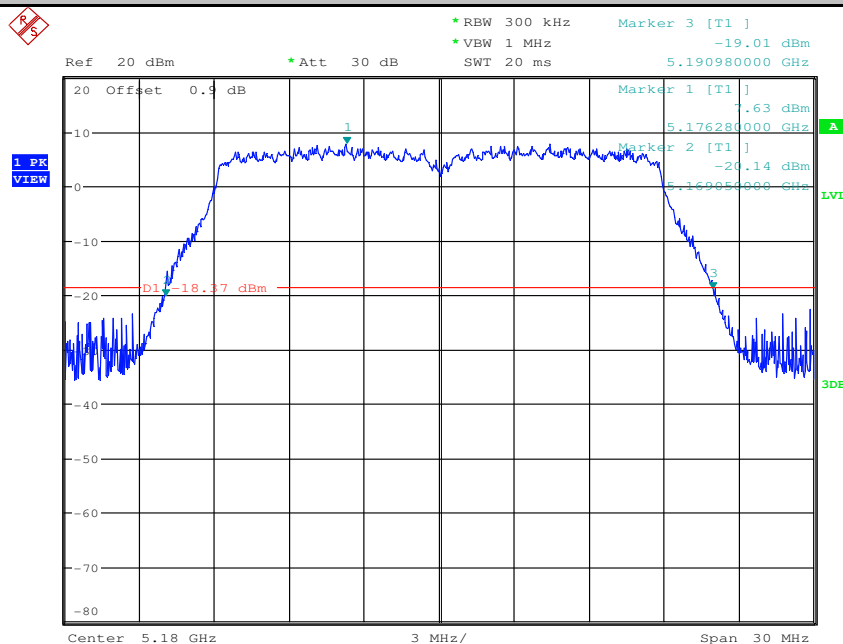




Emission Bandwidth Measurement_11N20_5180_Ant2

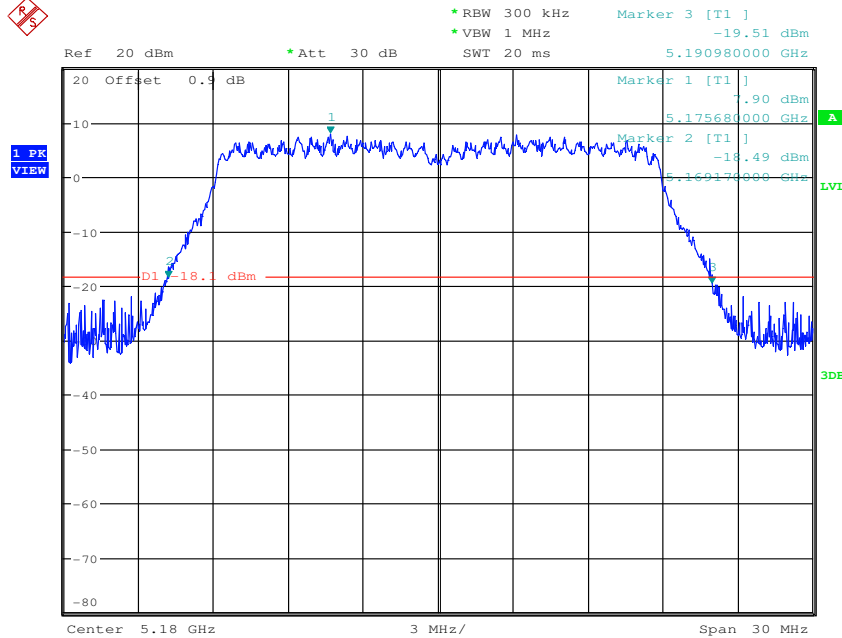


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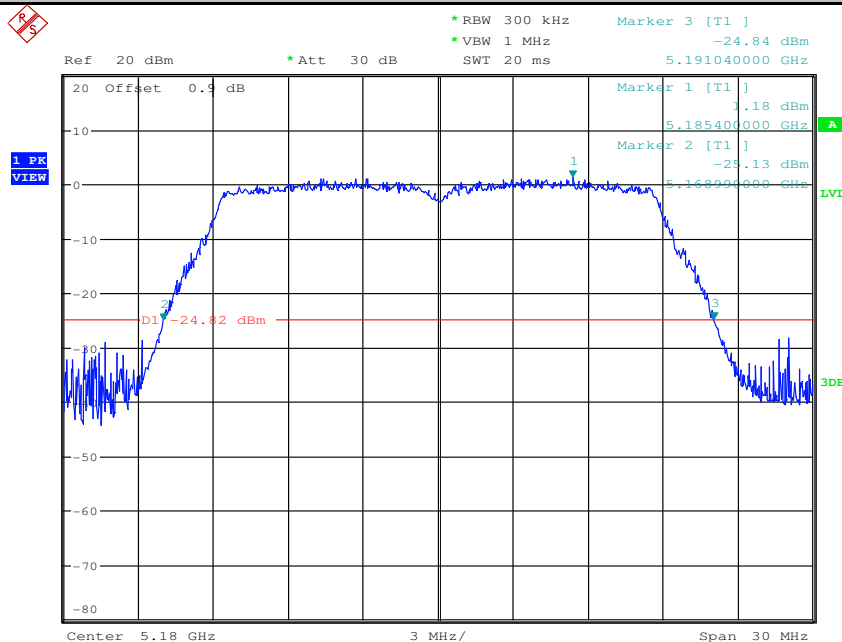




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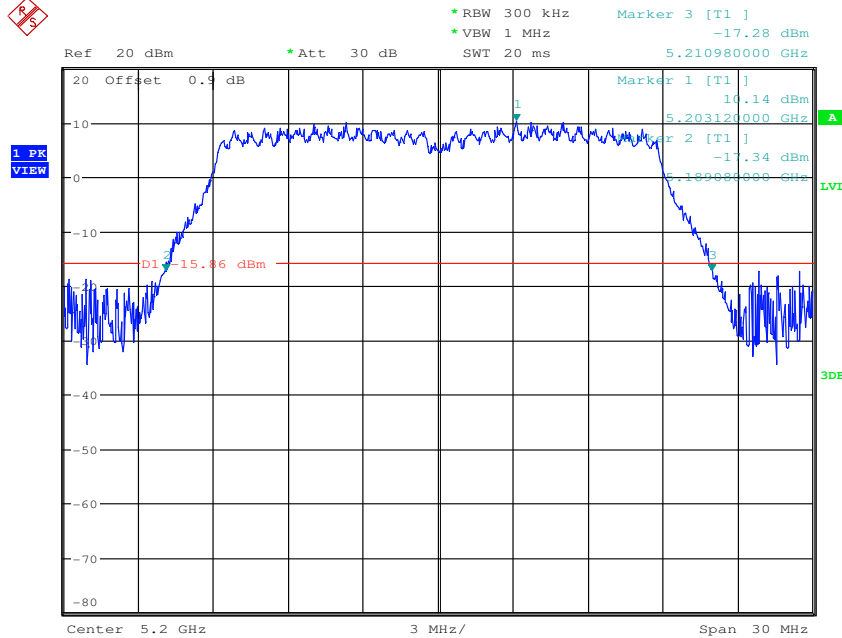


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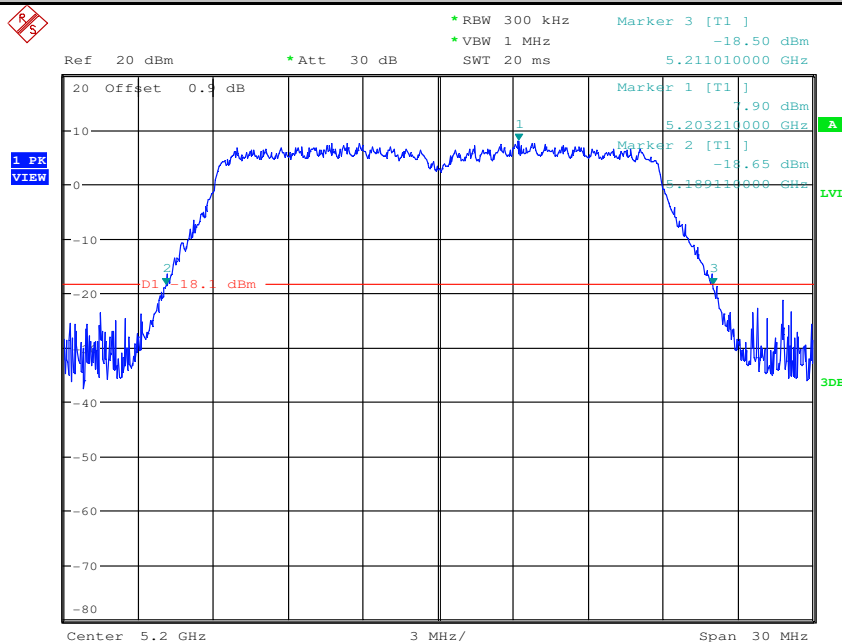




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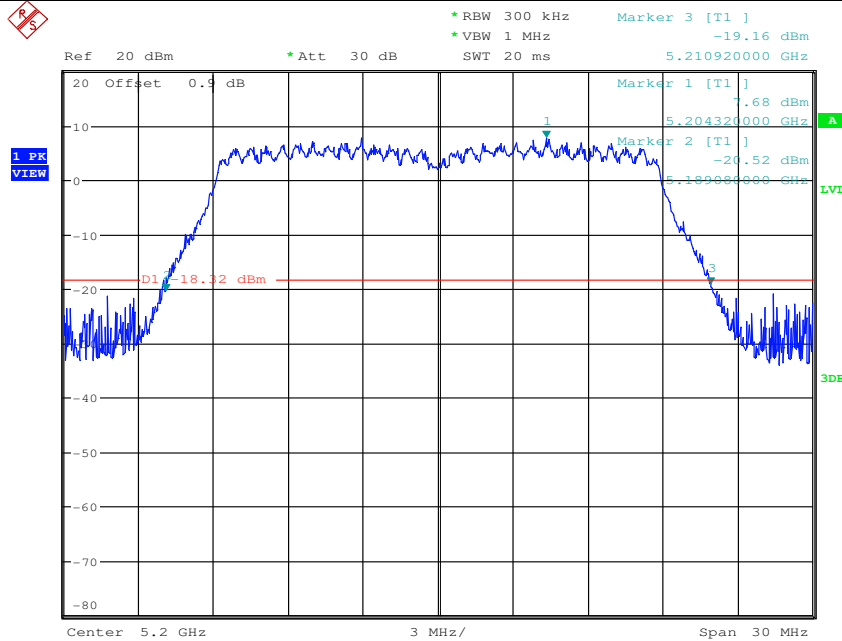


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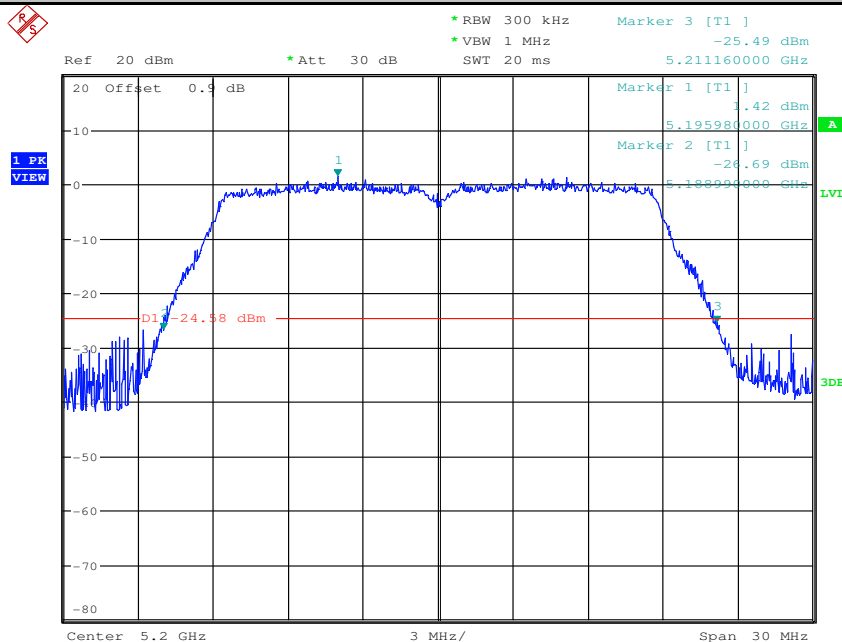




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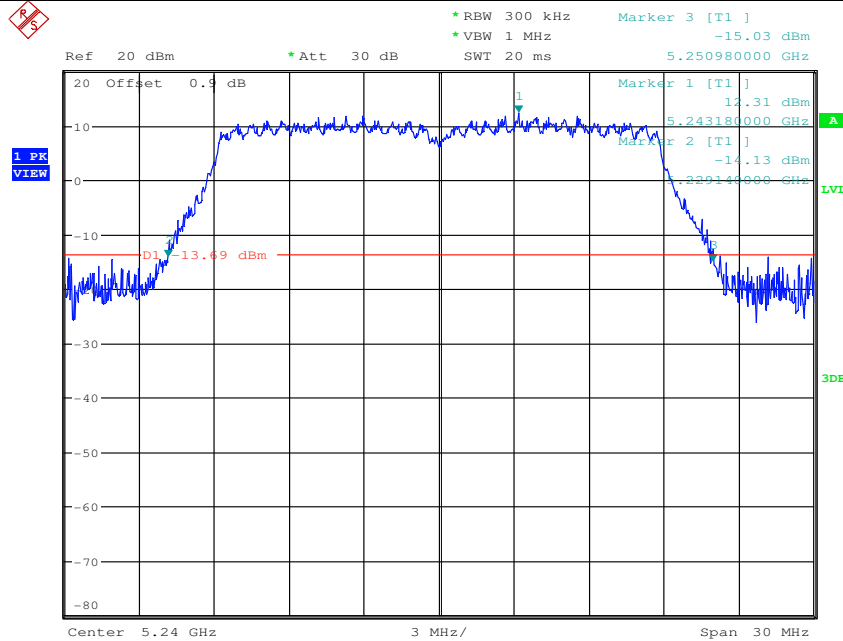


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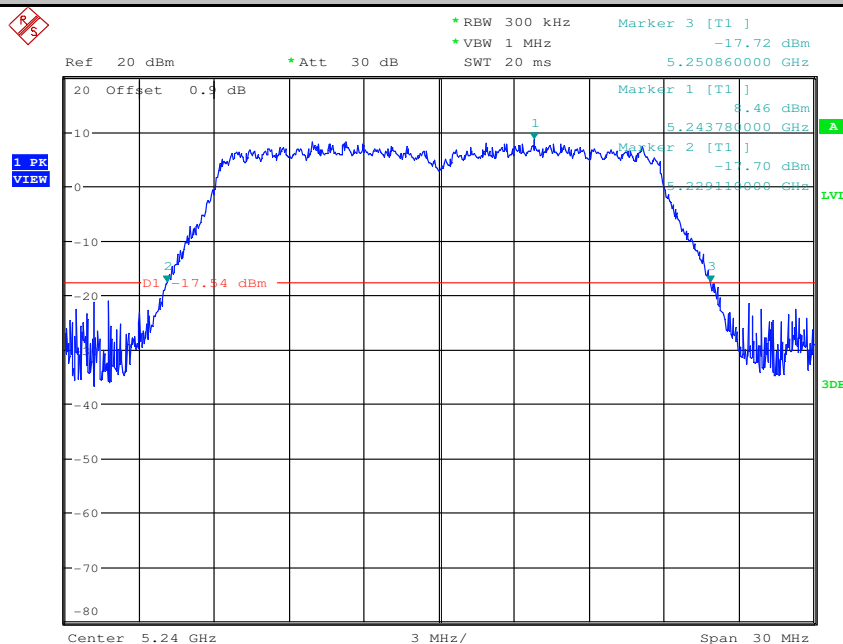




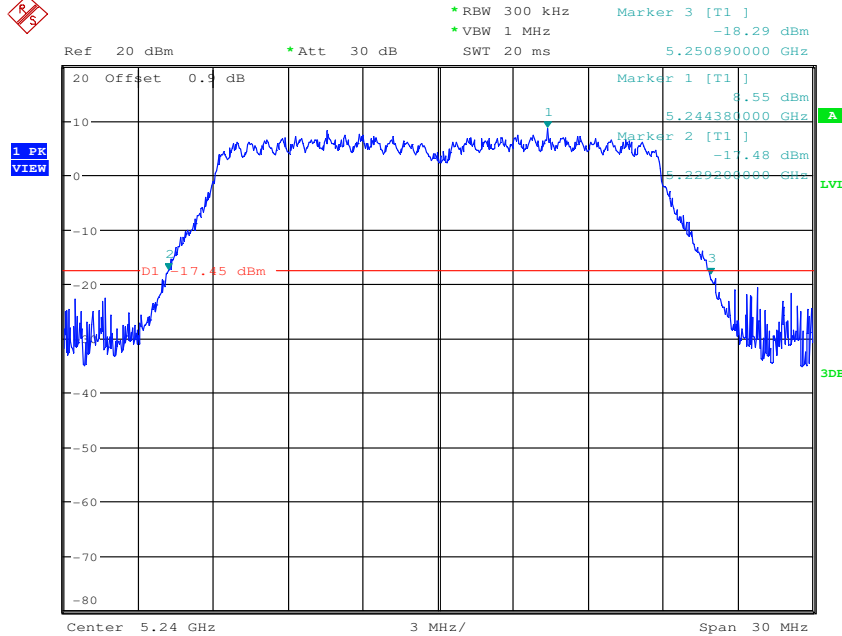
Emission Bandwidth Measurement_11N20_5240_Ant2



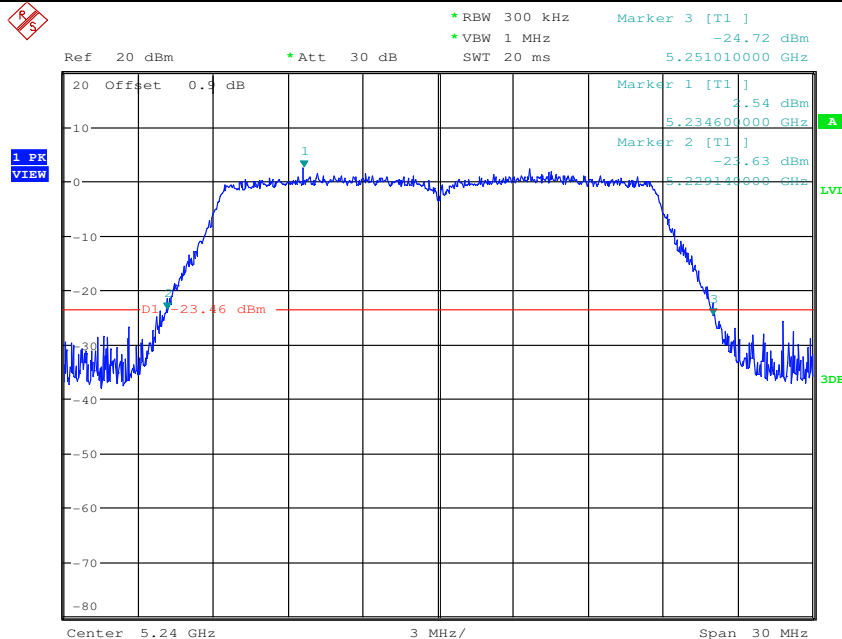
Emission Bandwidth Measurement_11N20_5240_Ant3



Emission Bandwidth Measurement_11N20_5240_Ant4

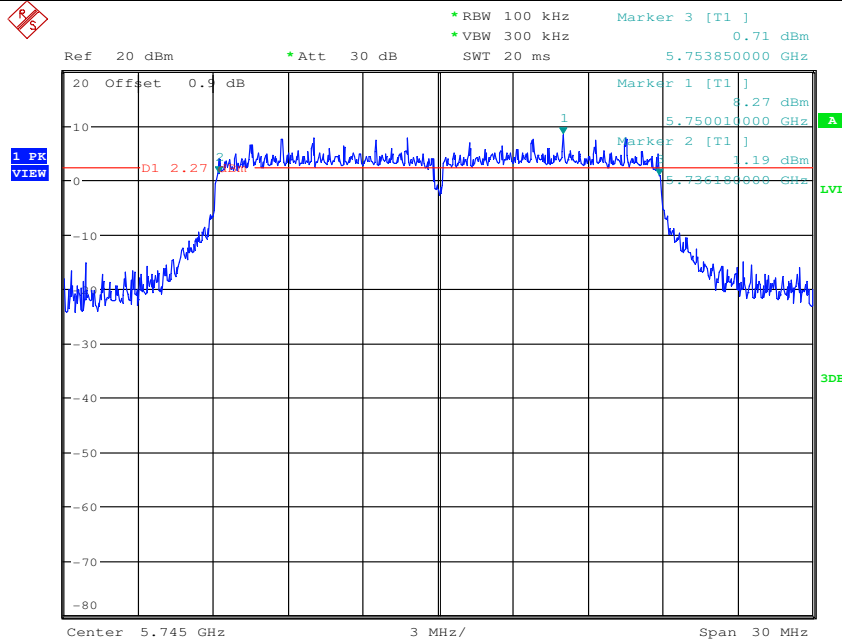


Emission Bandwidth Measurement_11N20_5240_Ant5

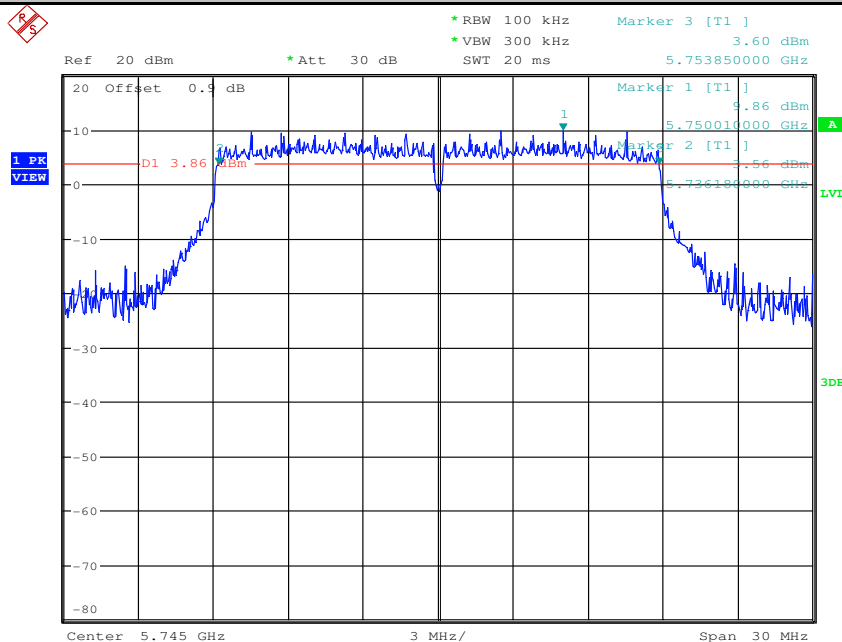




Emission Bandwidth Measurement_11N20_5745_Ant2

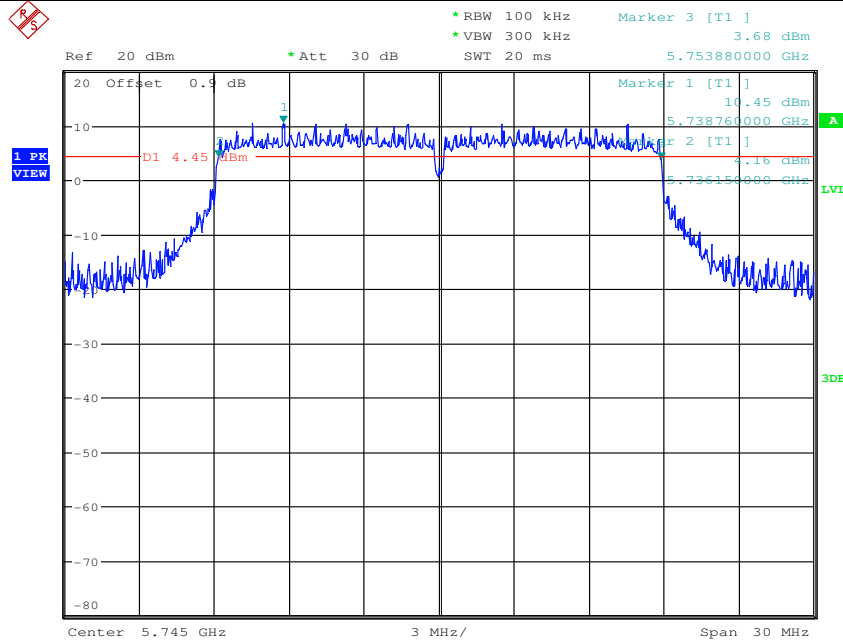


Emission Bandwidth Measurement_11N20_5745_Ant3

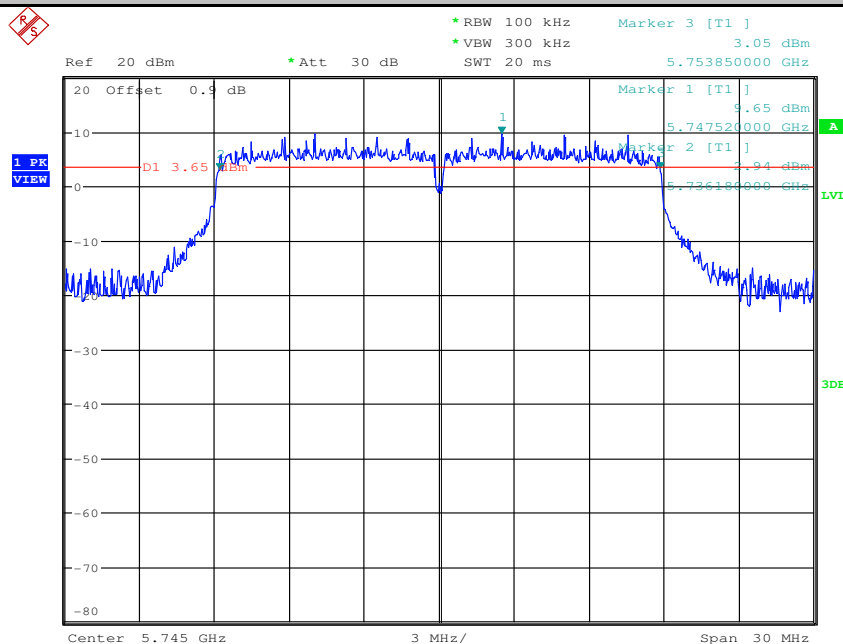




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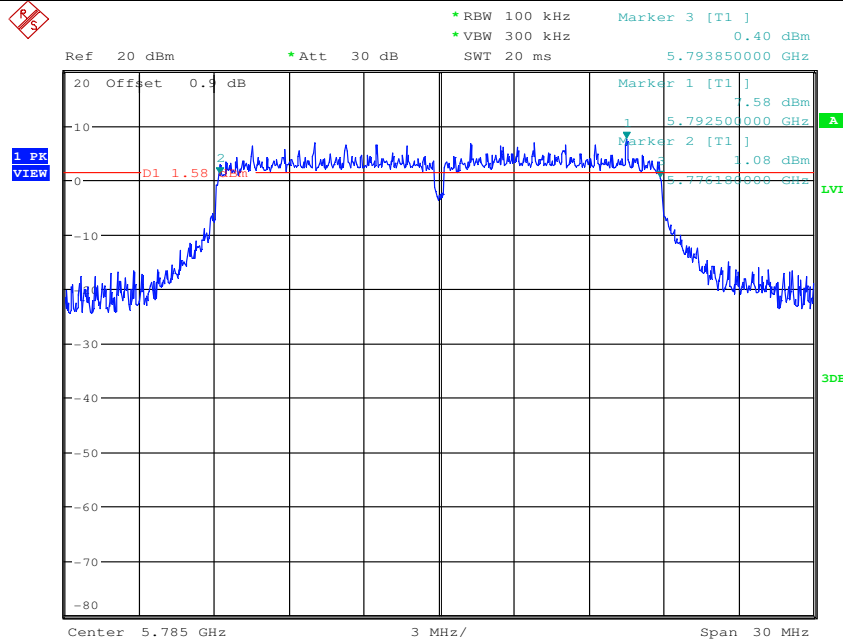


Emission Bandwidth Measurement_11N20_5745_Ant5

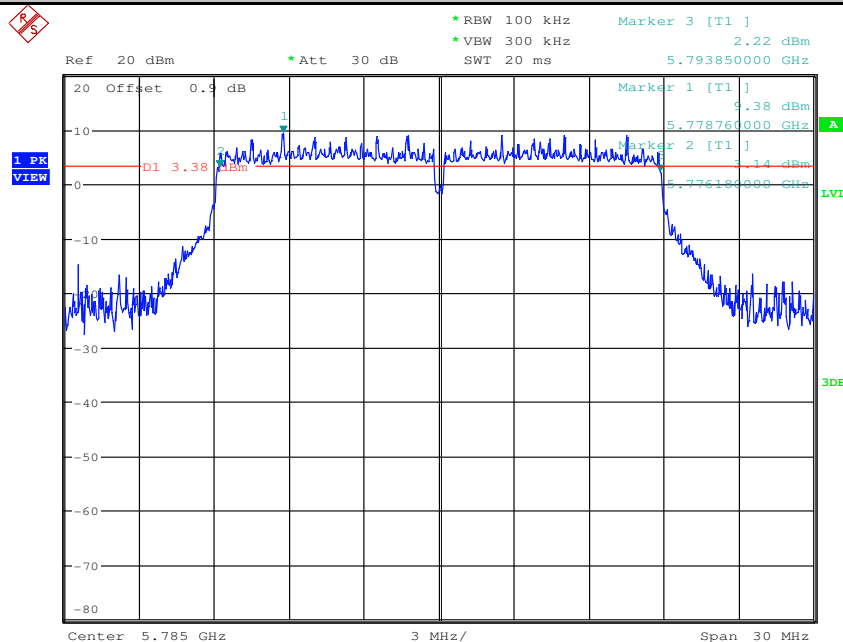




Emission Bandwidth Measurement_11N20_5785_Ant2

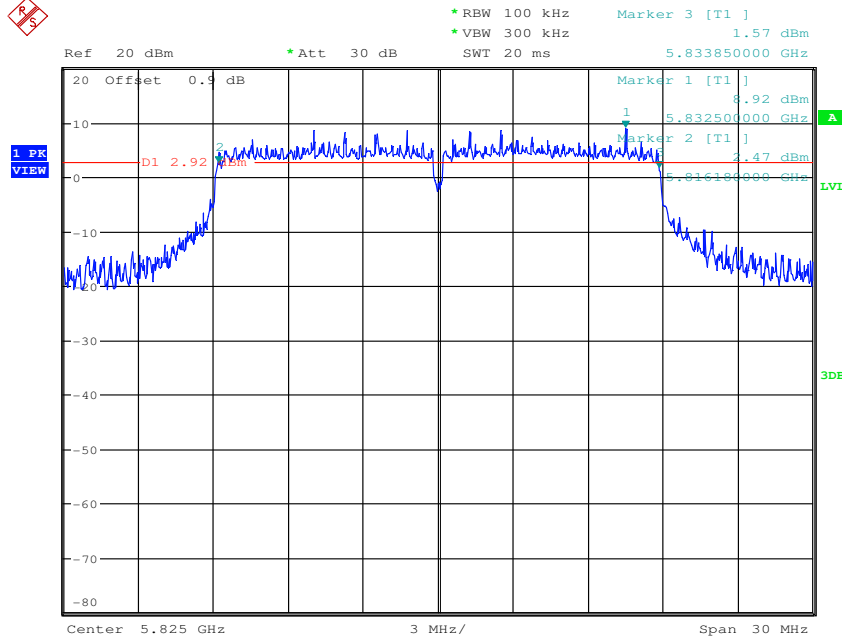


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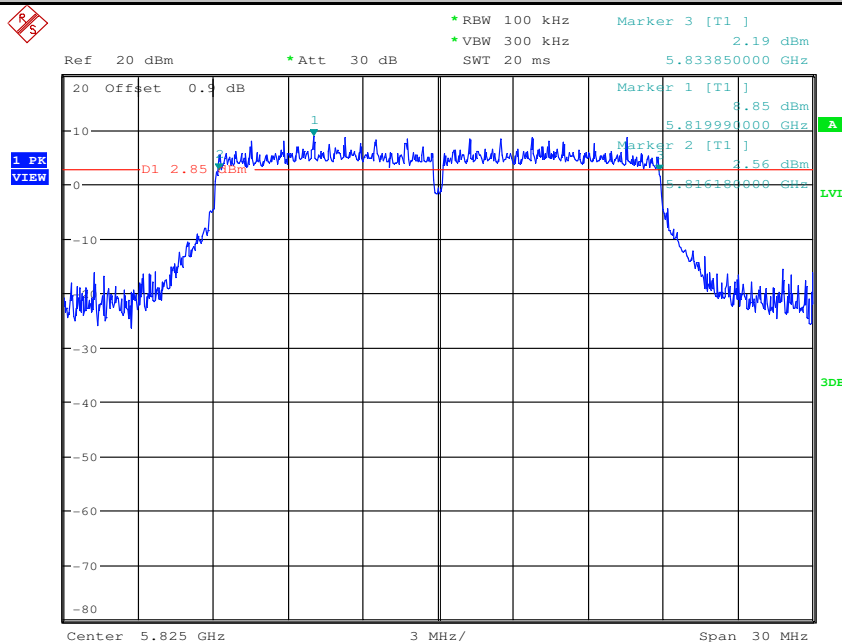




Emission Bandwidth Measurement_11N20_5825_Ant2

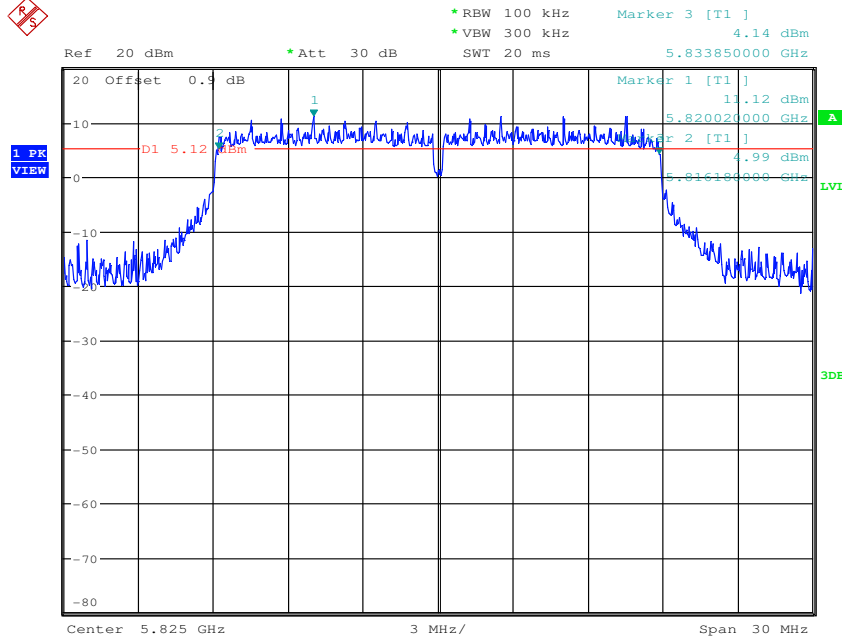


Emission Bandwidth Measurement_11N20_5825_Ant3

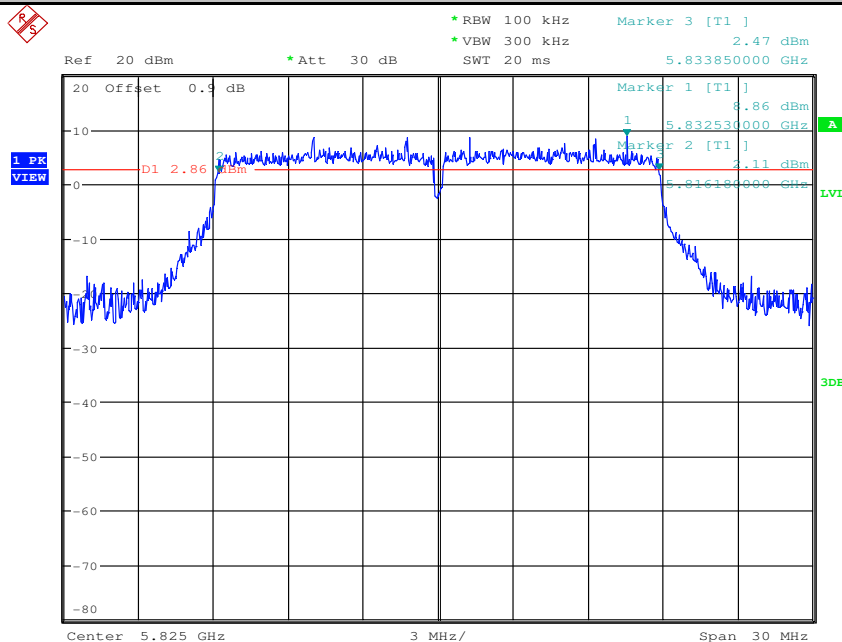




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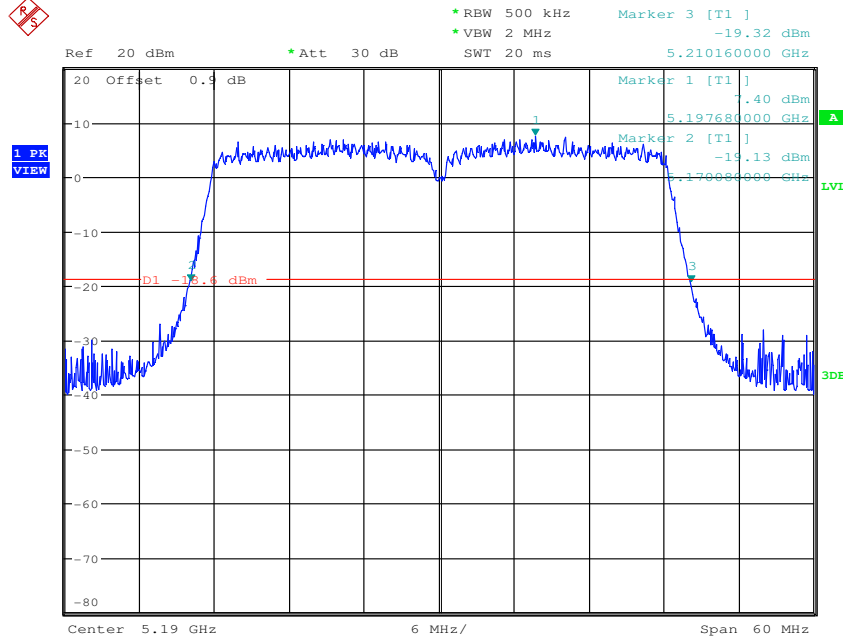


Emission Bandwidth Measurement_11N20_5825_Ant5

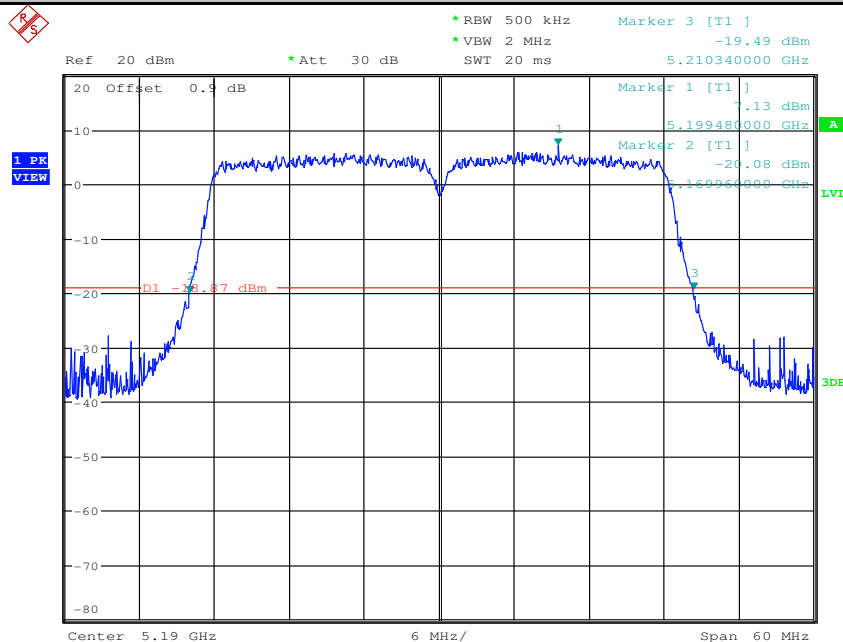




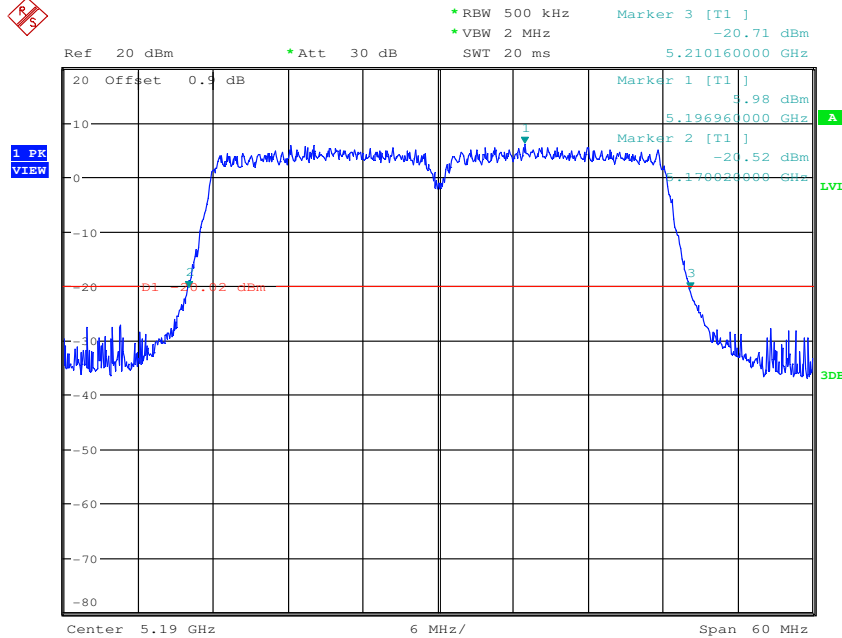
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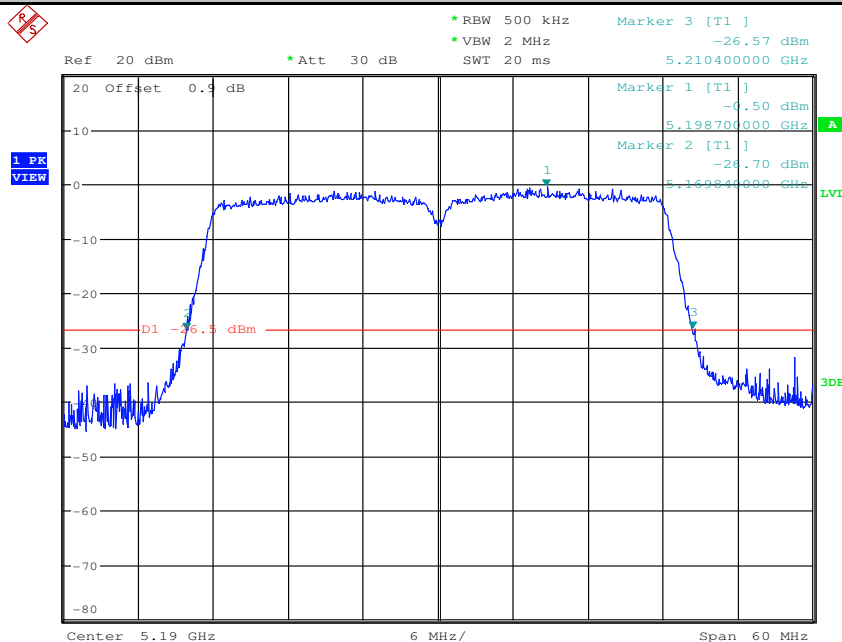
Emission Bandwidth Measurement_11N40_5190_Ant3



Emission Bandwidth Measurement_11N40_5190_Ant4

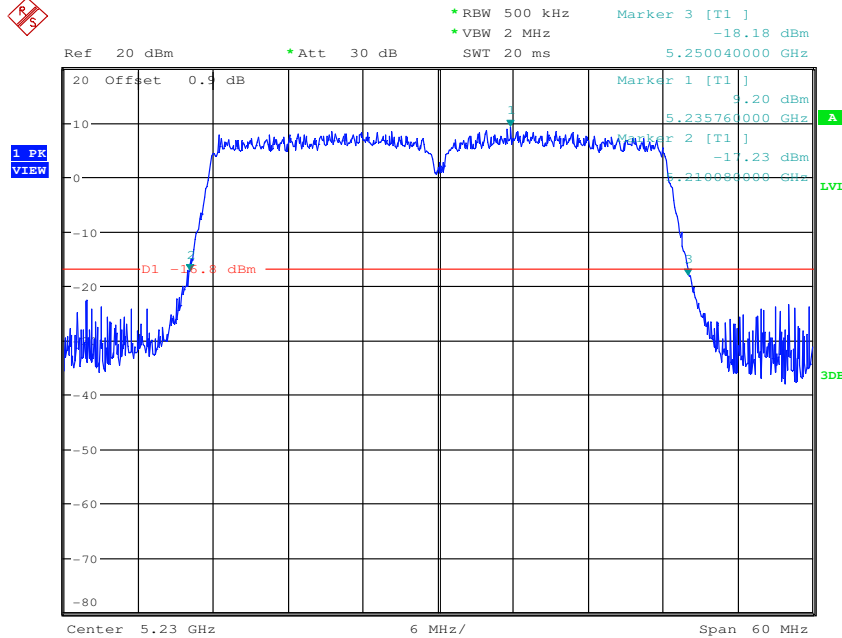


Emission Bandwidth Measurement_11N40_5190_Ant5

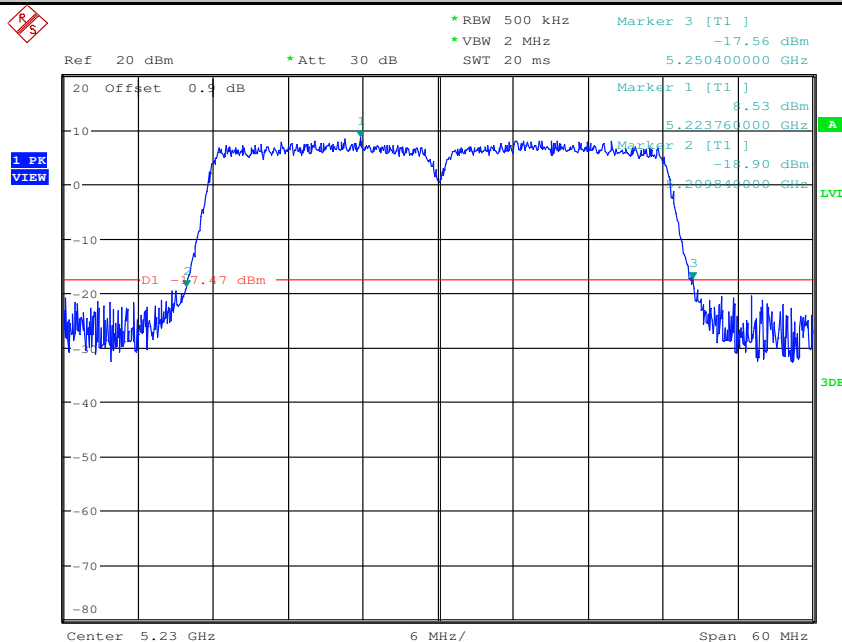




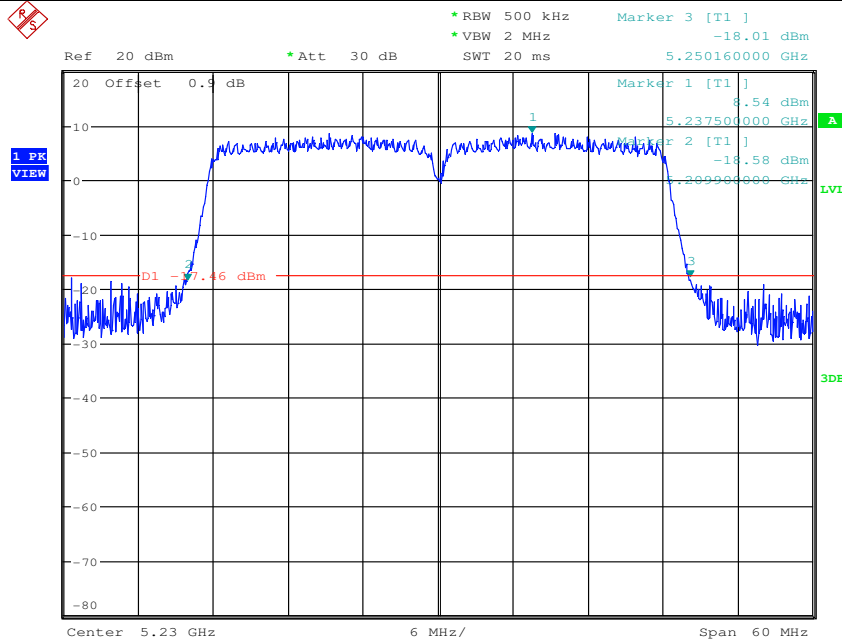
Emission Bandwidth Measurement_11N40_5230_Ant2



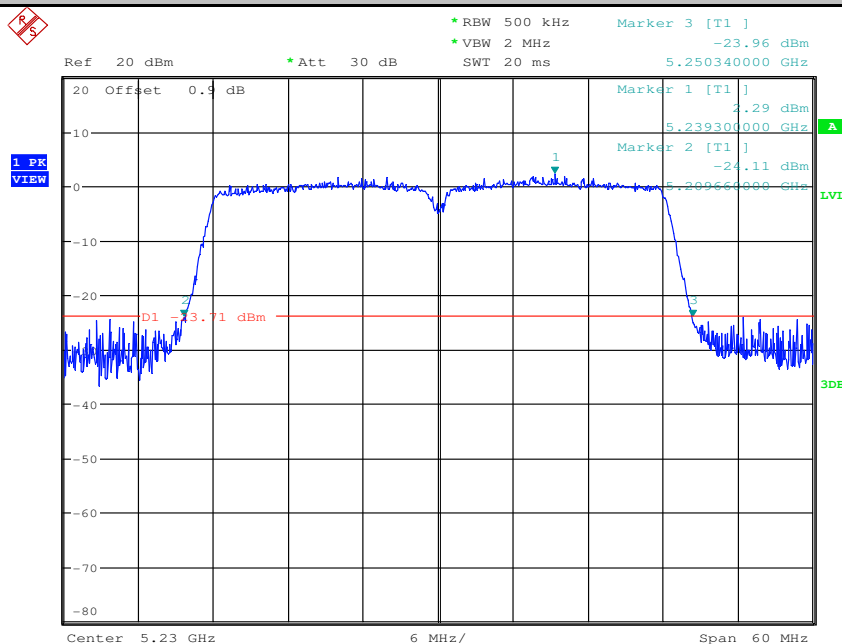
Emission Bandwidth Measurement_11N40_5230_Ant3



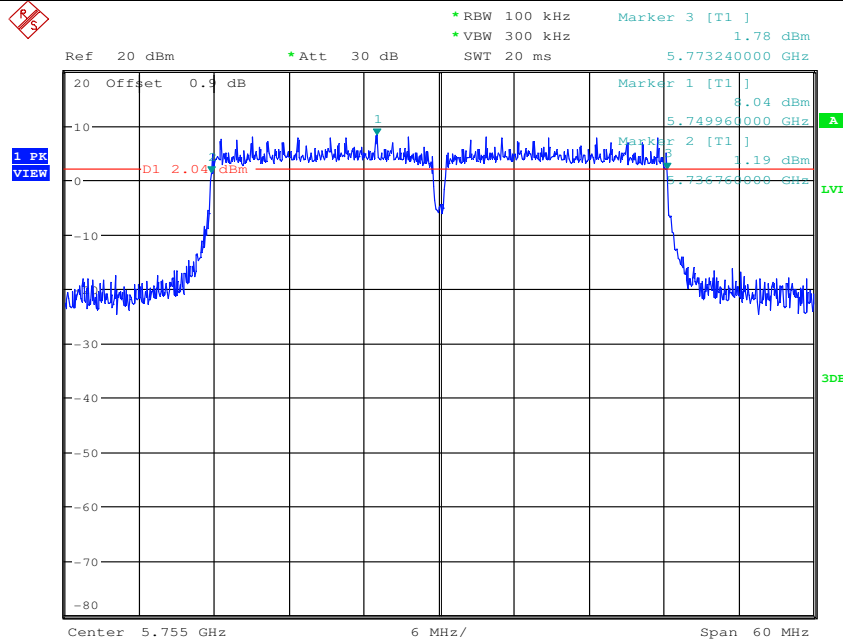
Emission Bandwidth Measurement_11N40_5230_Ant4



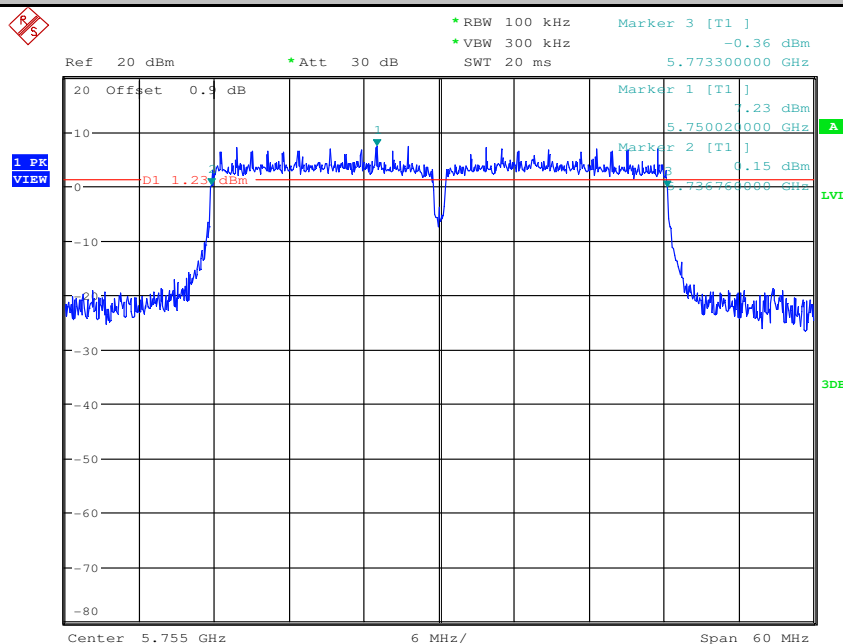
Emission Bandwidth Measurement_11N40_5230_Ant5



Emission Bandwidth Measurement_11N40_5755_Ant4

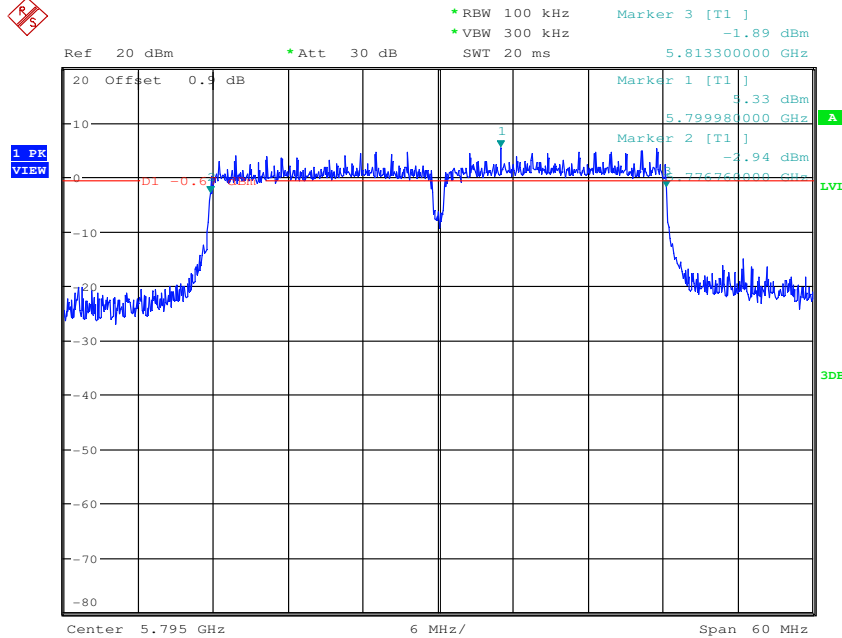


Emission Bandwidth Measurement_11N40_5755_Ant5

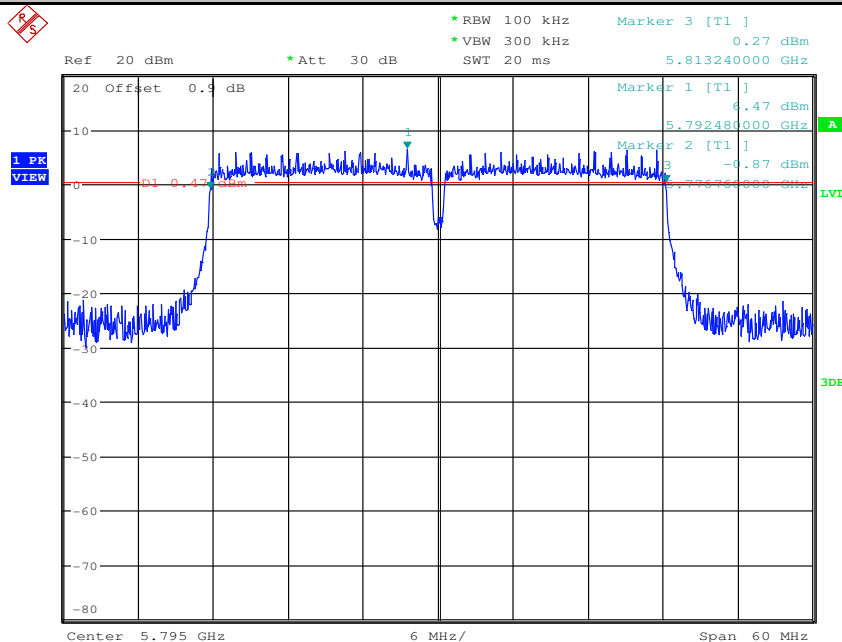




Emission Bandwidth Measurement_11N40_5795_Ant2

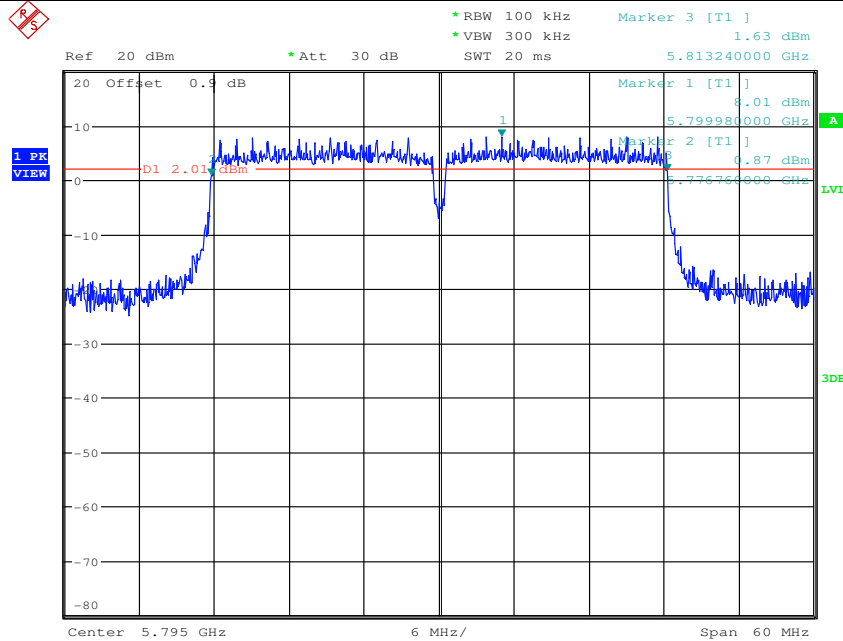


Emission Bandwidth Measurement_11N40_5795_Ant3

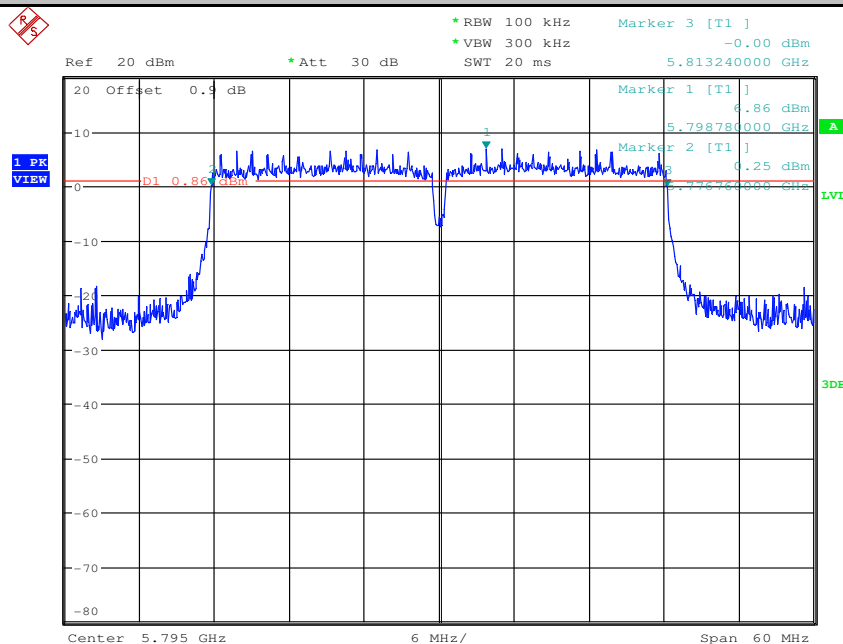




Emission Bandwidth Measurement_11N40_5795_Ant4

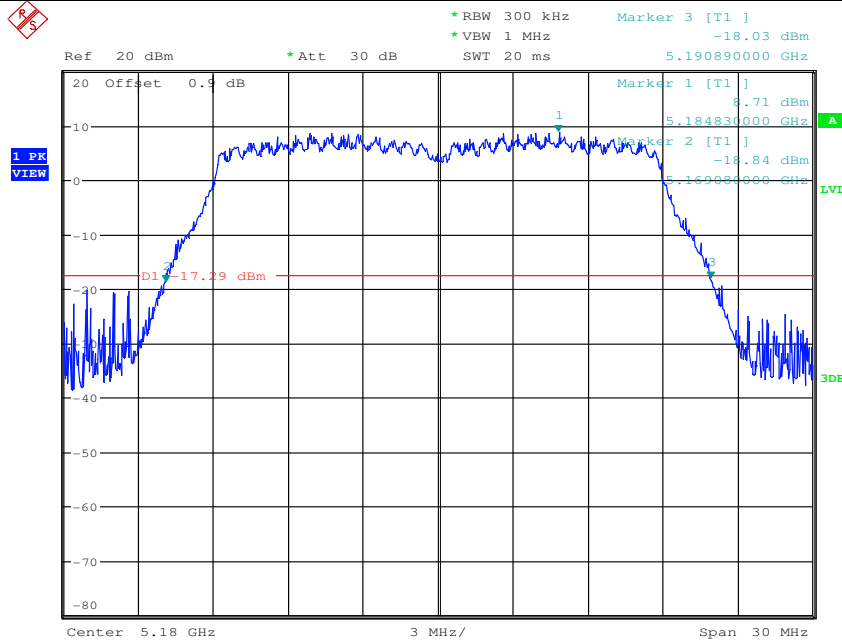


Emission Bandwidth Measurement_11N40_5795_Ant5

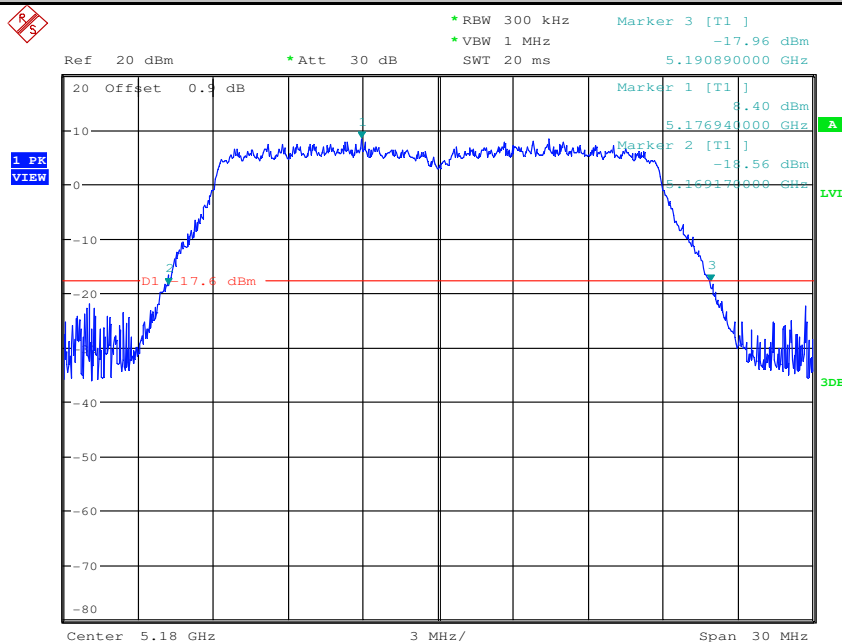




Emission Bandwidth Measurement_11AC20_5180_Ant2

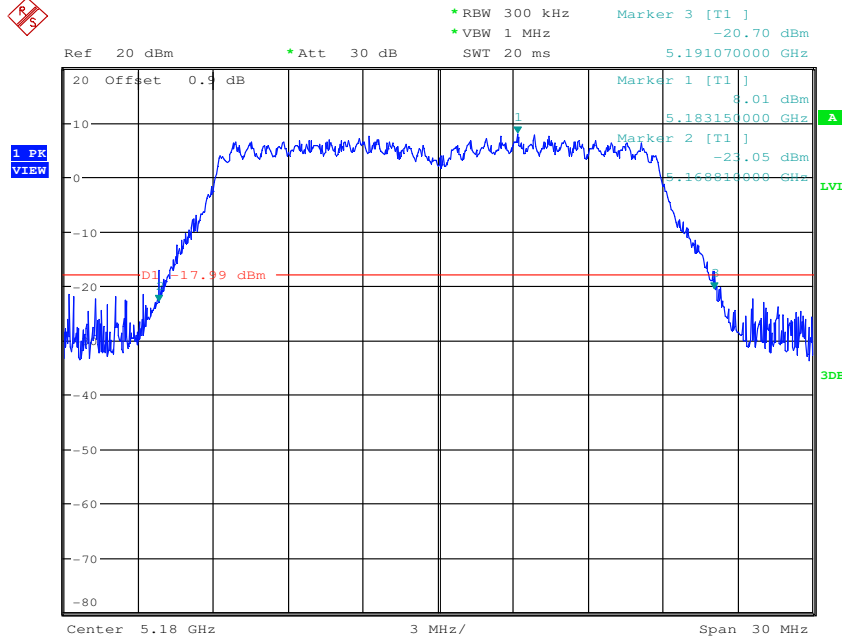


Emission Bandwidth Measurement_11AC20_5180_Ant3

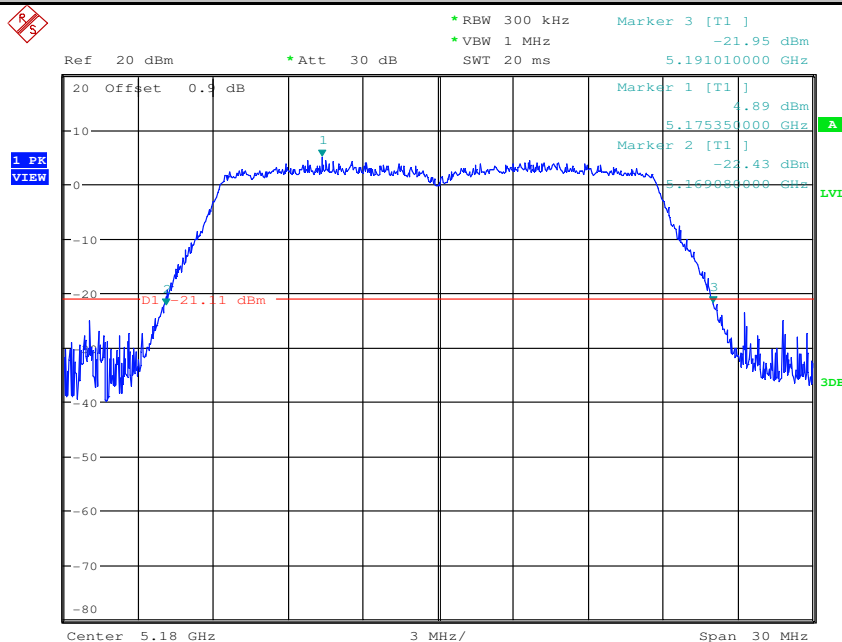




Emission Bandwidth Measurement_11AC20_5180_Ant4

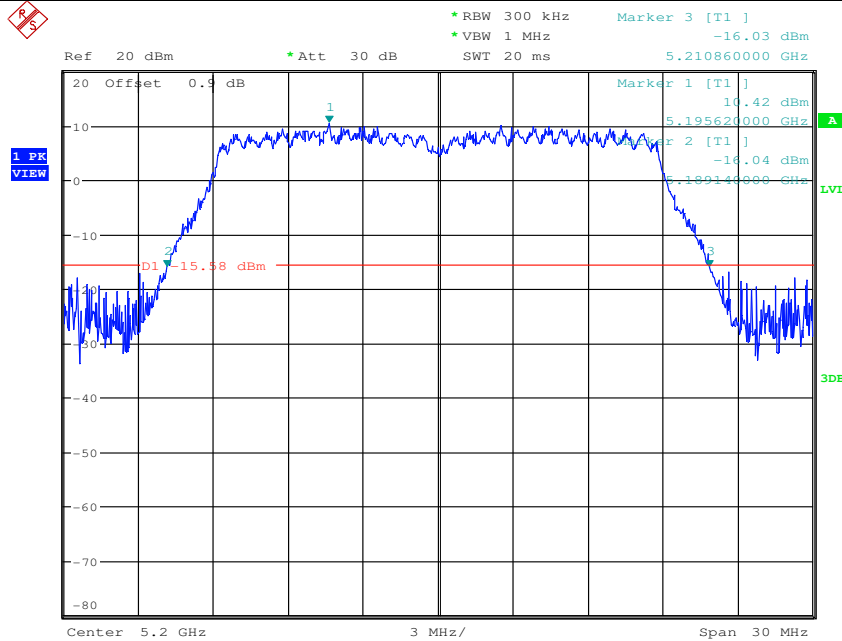


Emission Bandwidth Measurement_11AC20_5180_Ant5

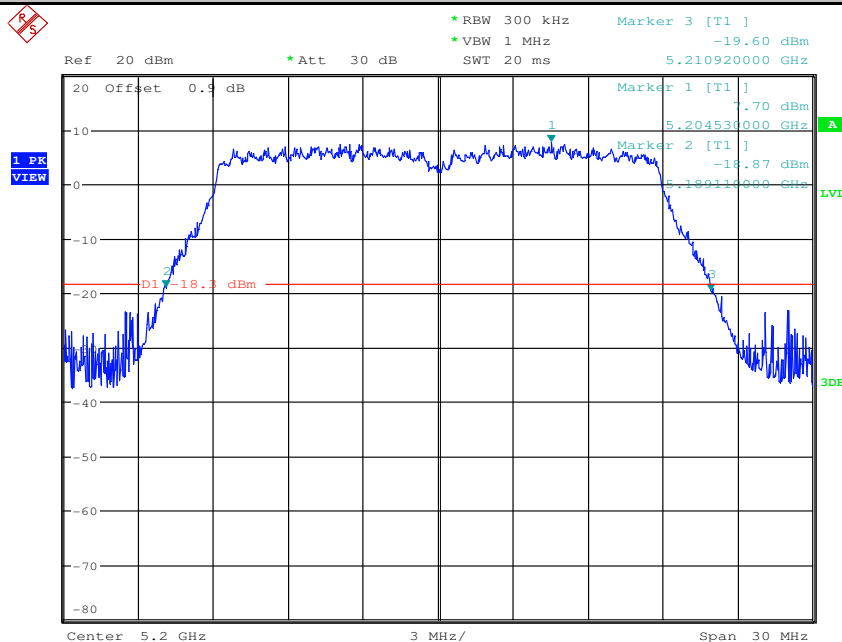




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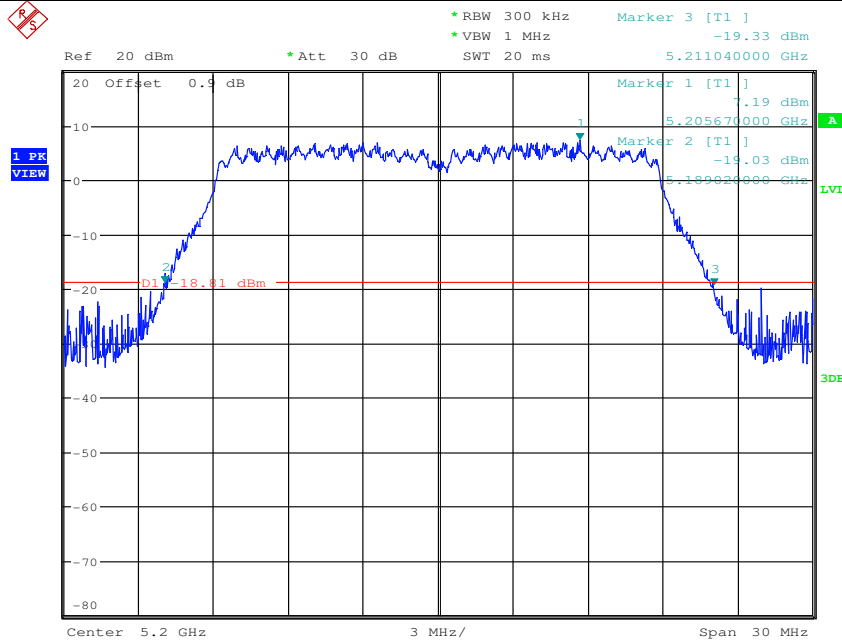


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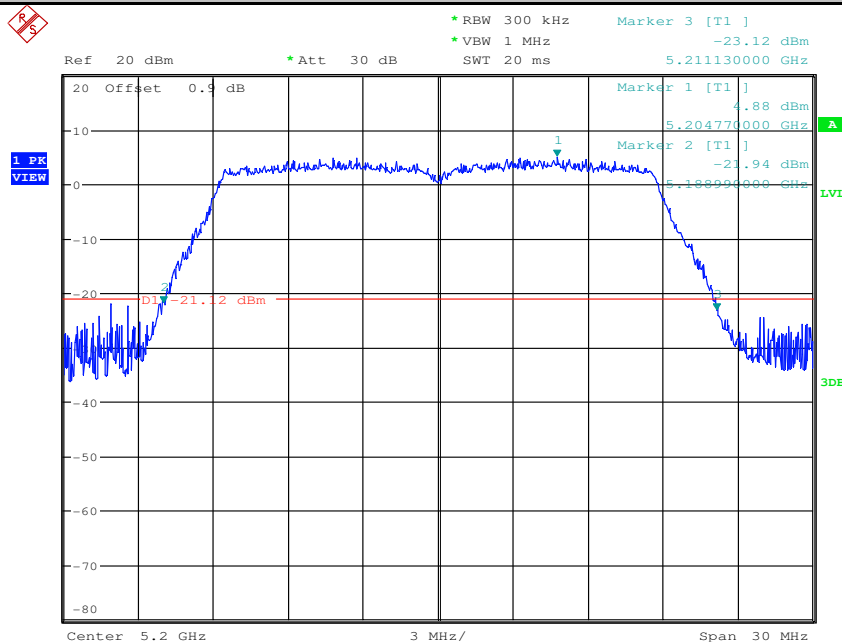




Emission Bandwidth Measurement_11AC20_5200_Ant4

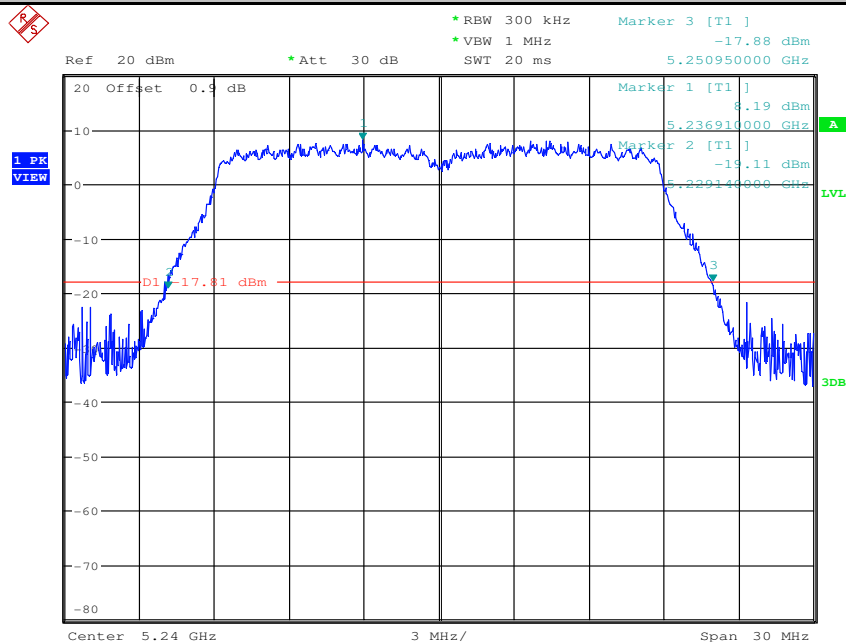
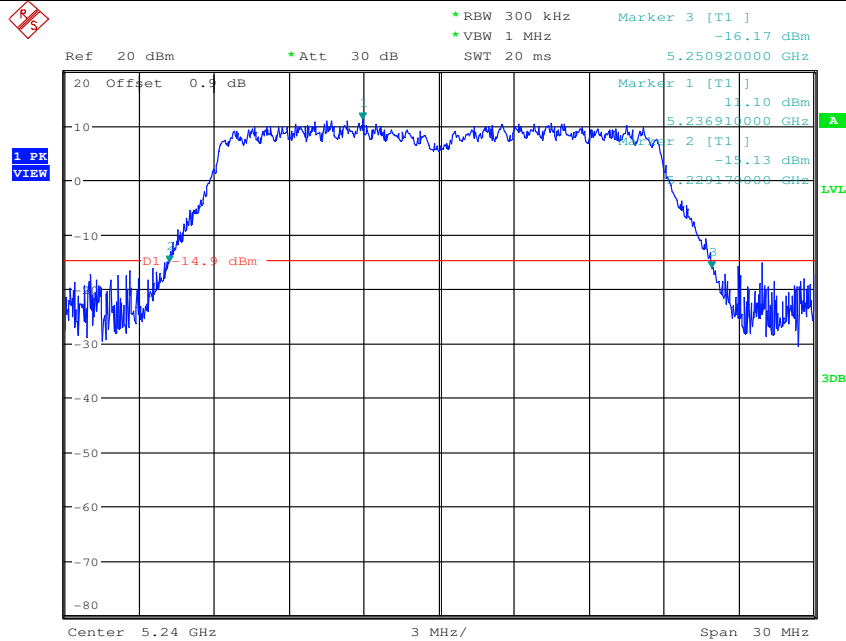


Emission Bandwidth Measurement_11AC20_5200_Ant5





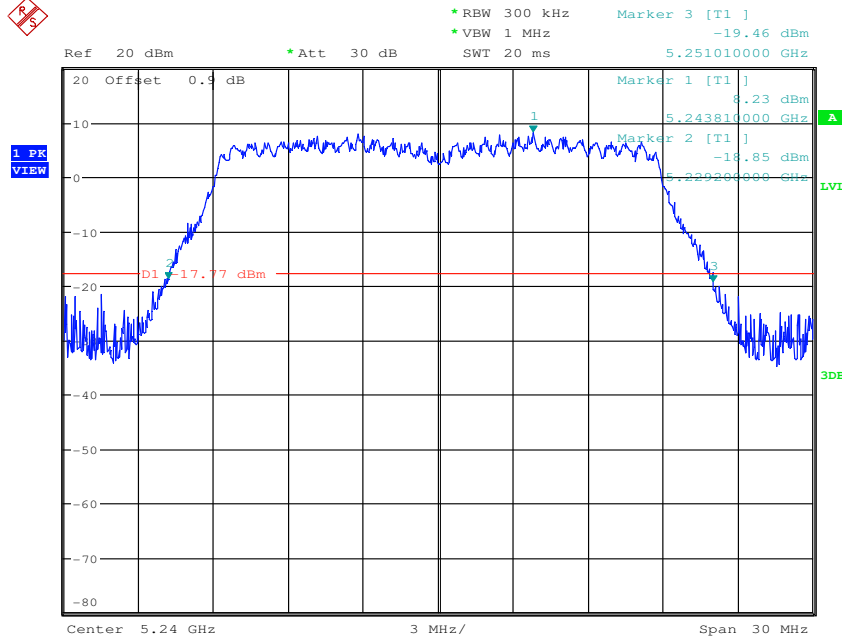
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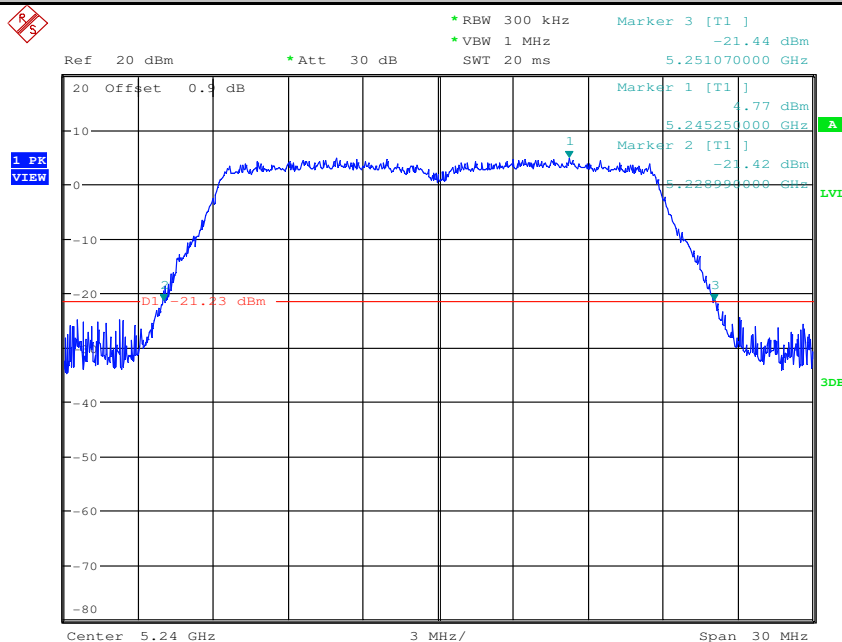
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Emission Bandwidth Measurement_11AC20_5240_Ant4

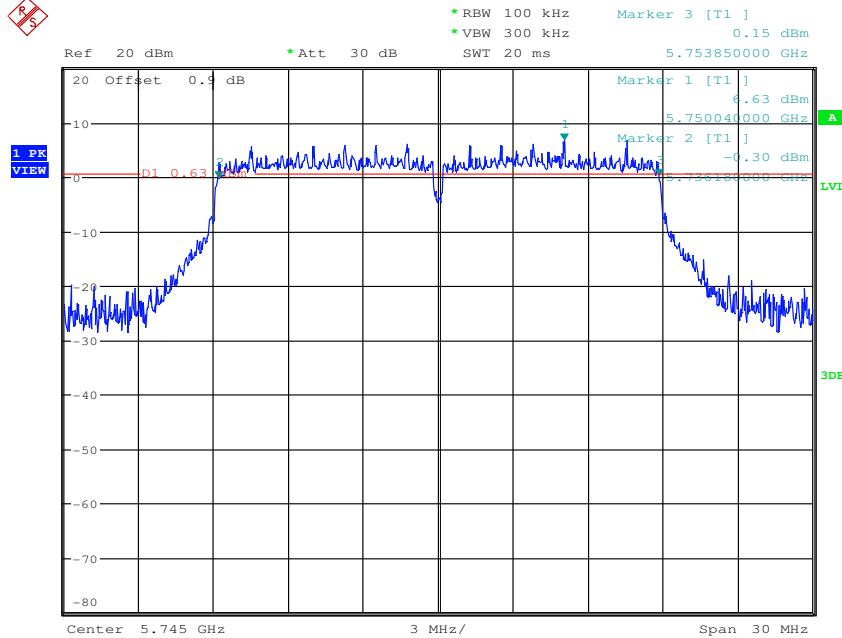


Emission Bandwidth Measurement_11AC20_5240_Ant5

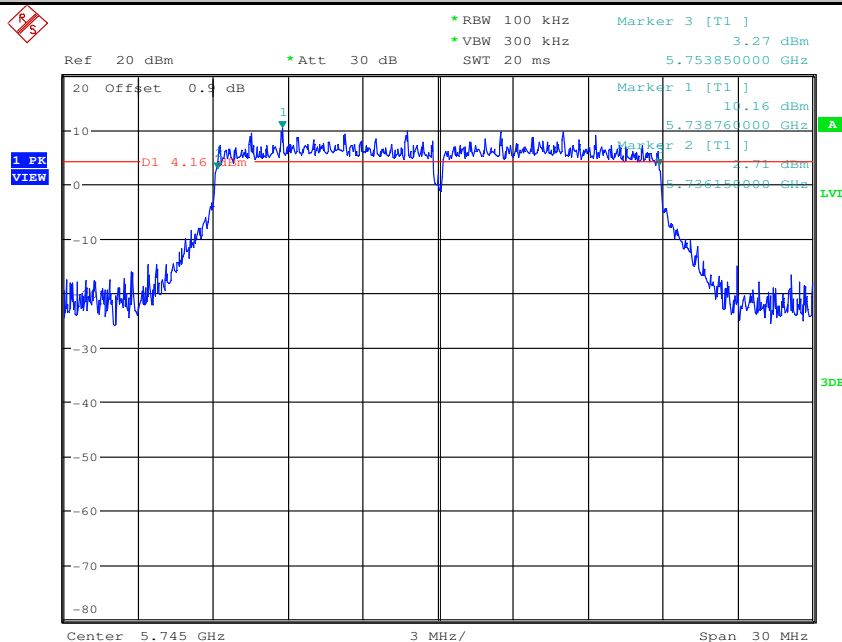




Emission Bandwidth Measurement_11AC20_5745_Ant2

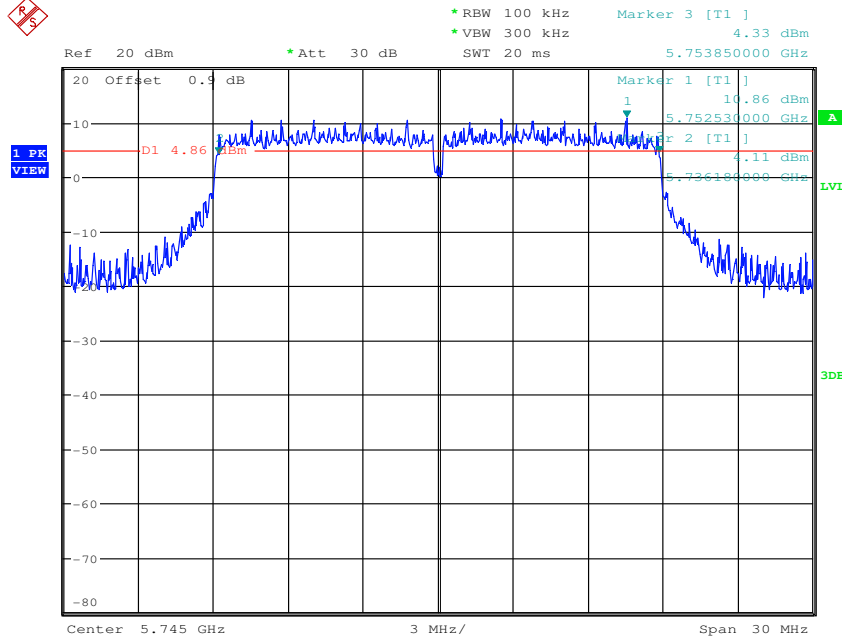


Emission Bandwidth Measurement_11AC20_5745_Ant3

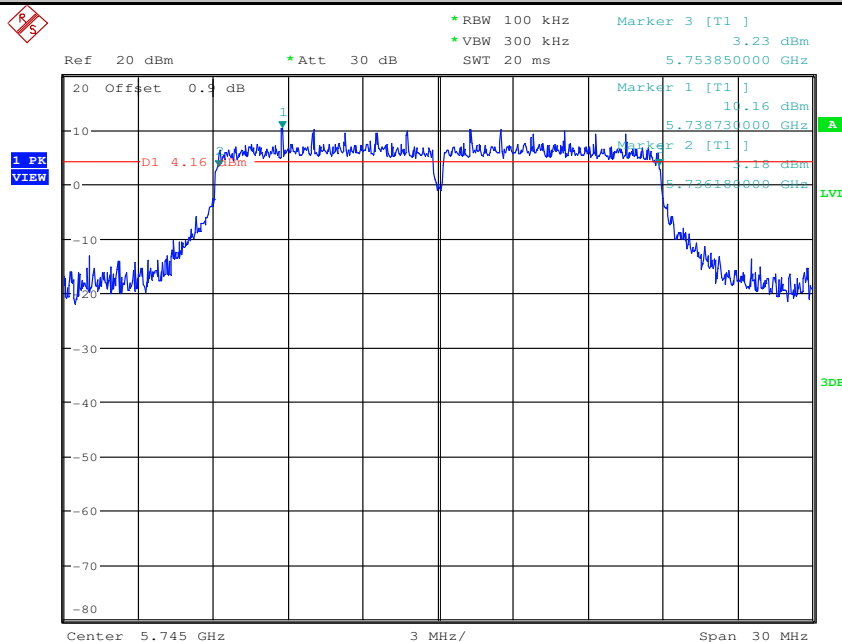




Emission Bandwidth Measurement_11AC20_5745_Ant4

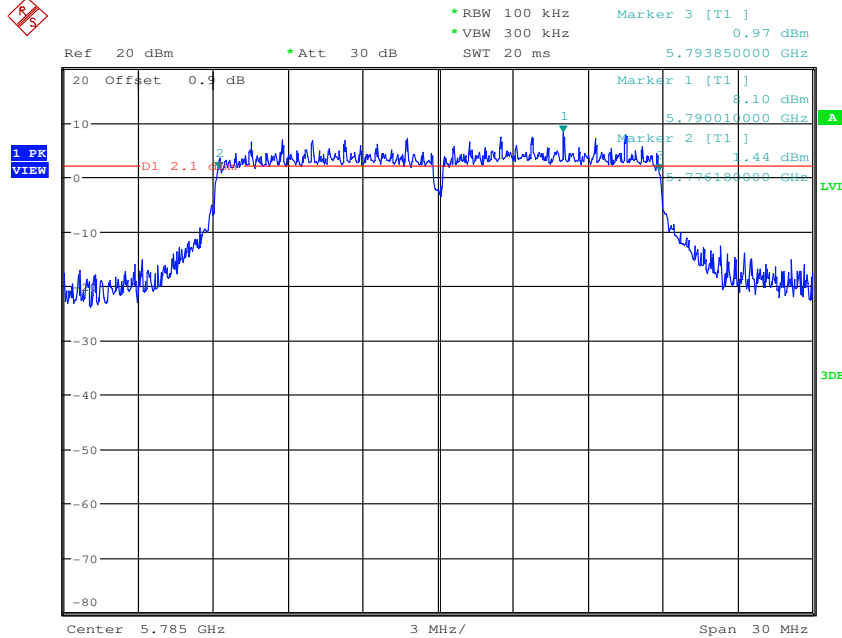


Emission Bandwidth Measurement_11AC20_5745_Ant5

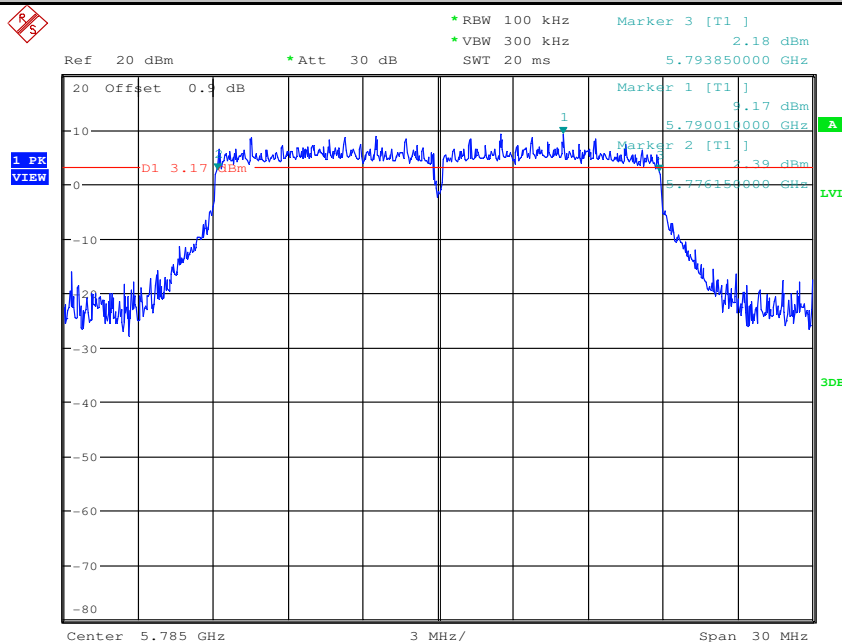




Emission Bandwidth Measurement_11AC20_5785_Ant2

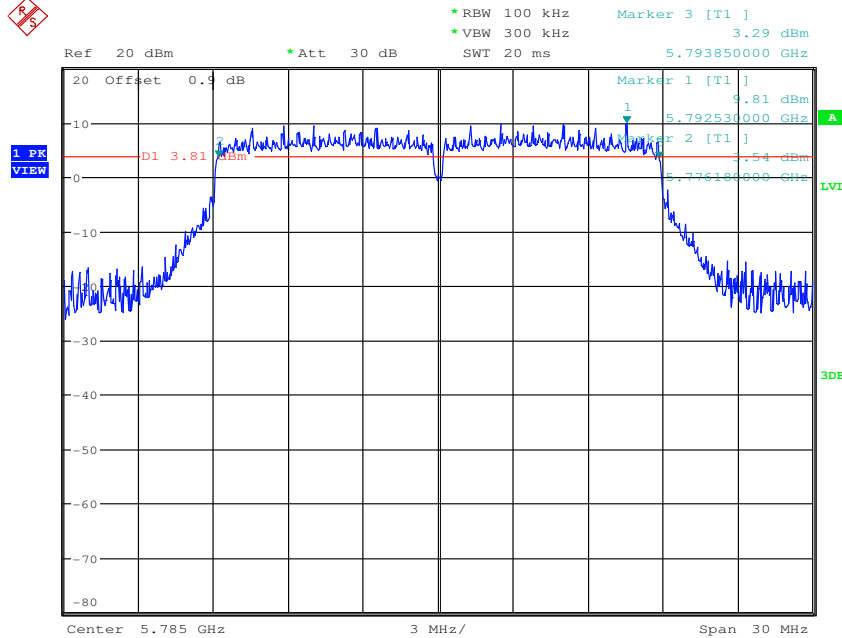


Emission Bandwidth Measurement_11AC20_5785_Ant3

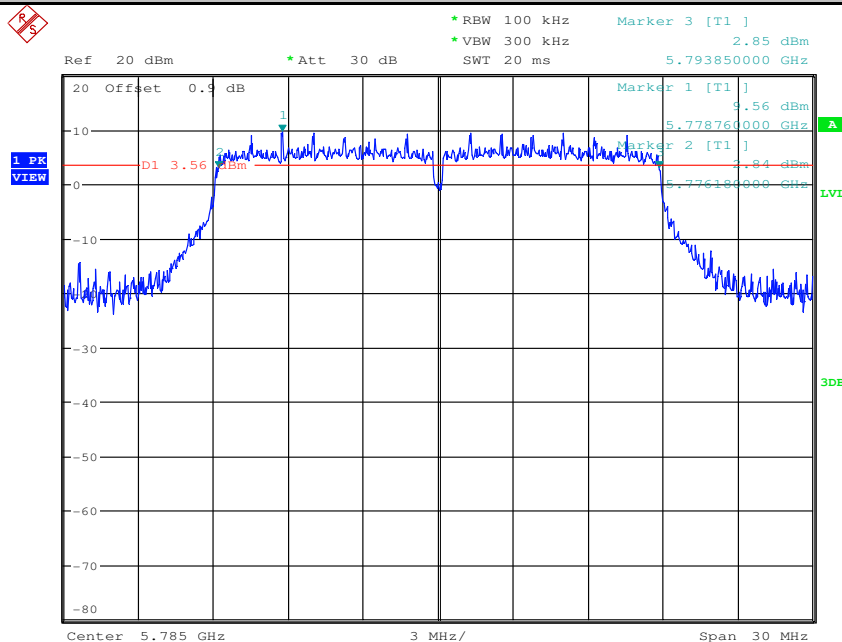




Emission Bandwidth Measurement_11AC20_5785_Ant4

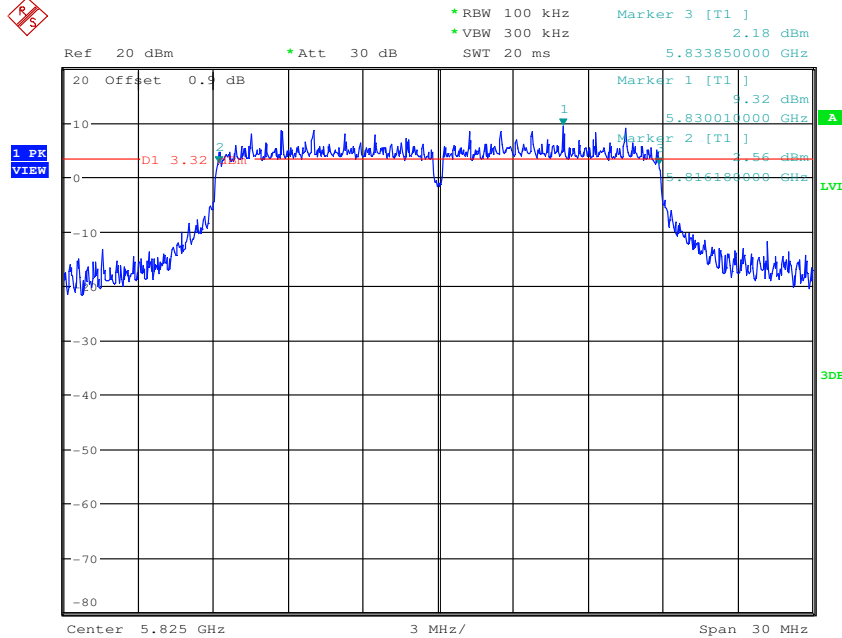


Emission Bandwidth Measurement_11AC20_5785_Ant5

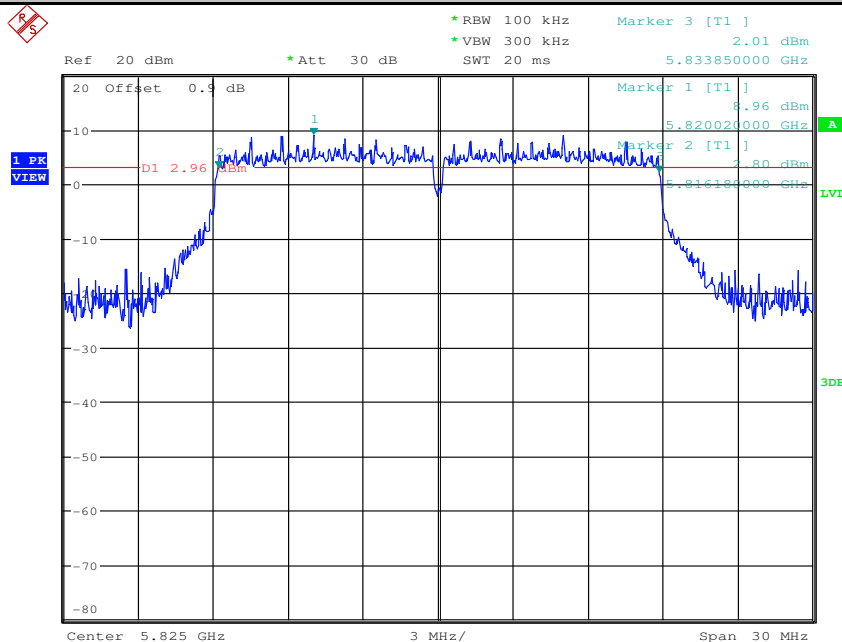




Emission Bandwidth Measurement_11AC20_5825_Ant2

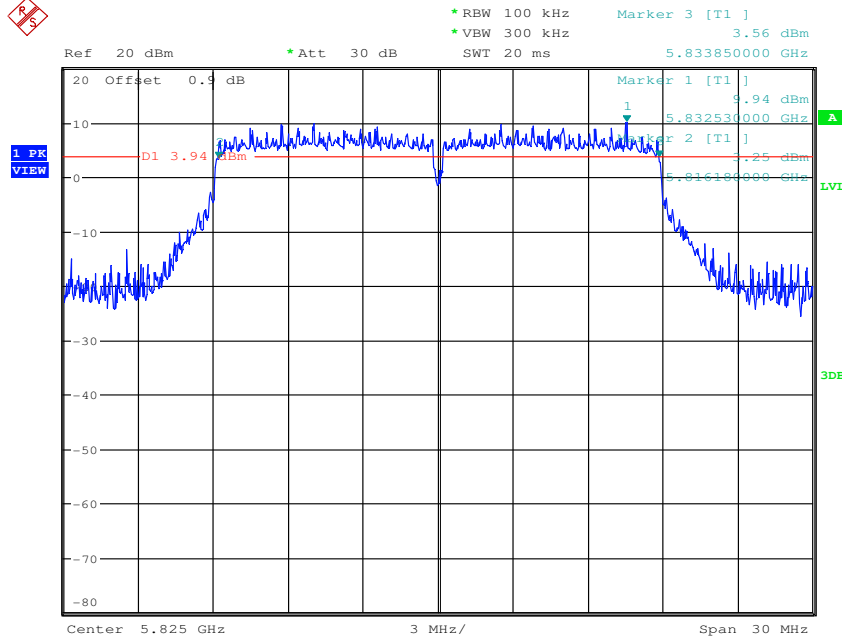


Emission Bandwidth Measurement_11AC20_5825_Ant3

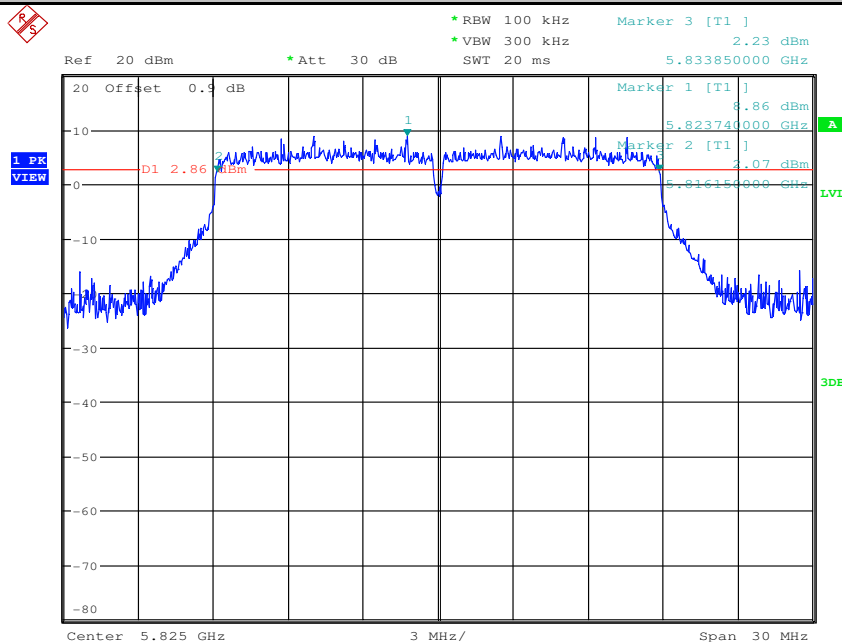




Emission Bandwidth Measurement_11AC20_5825_Ant4

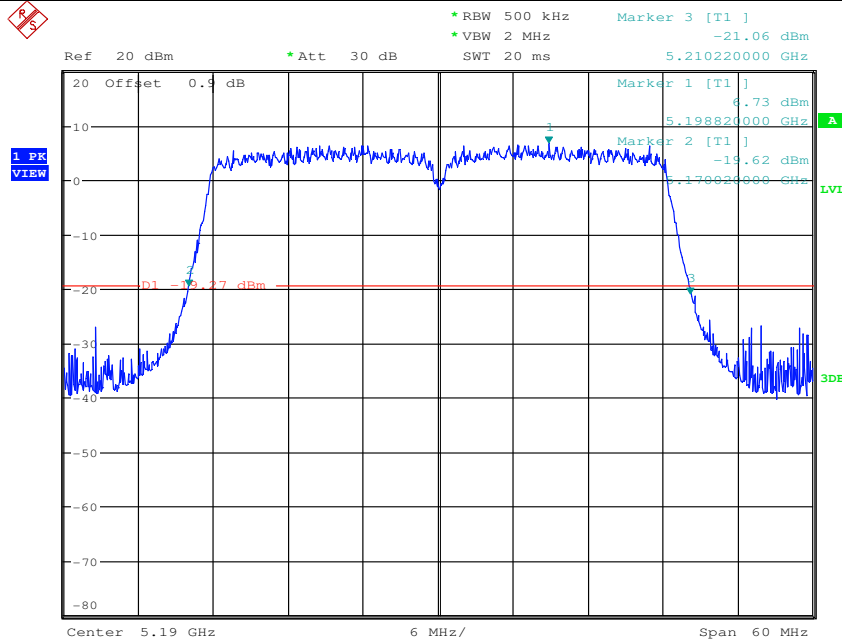


Emission Bandwidth Measurement_11AC20_5825_Ant5

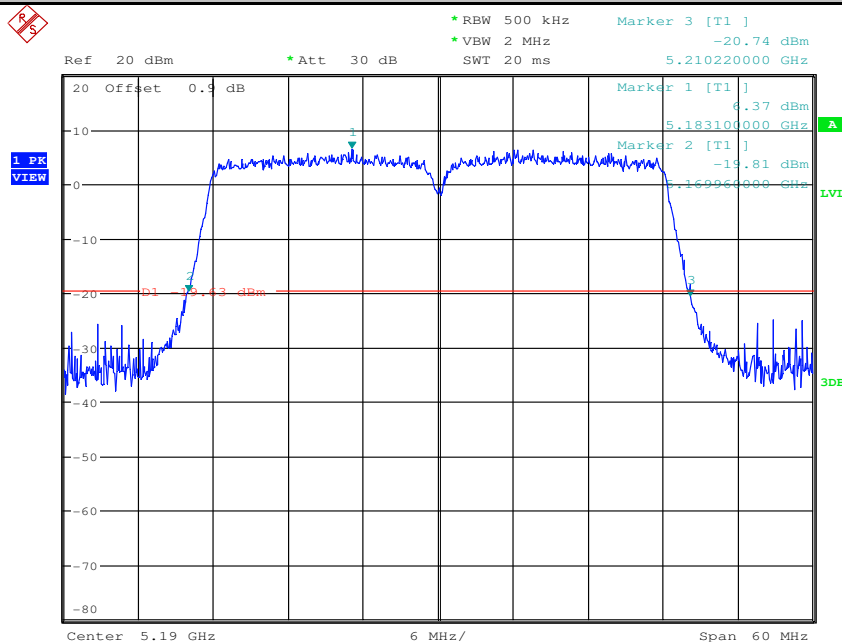




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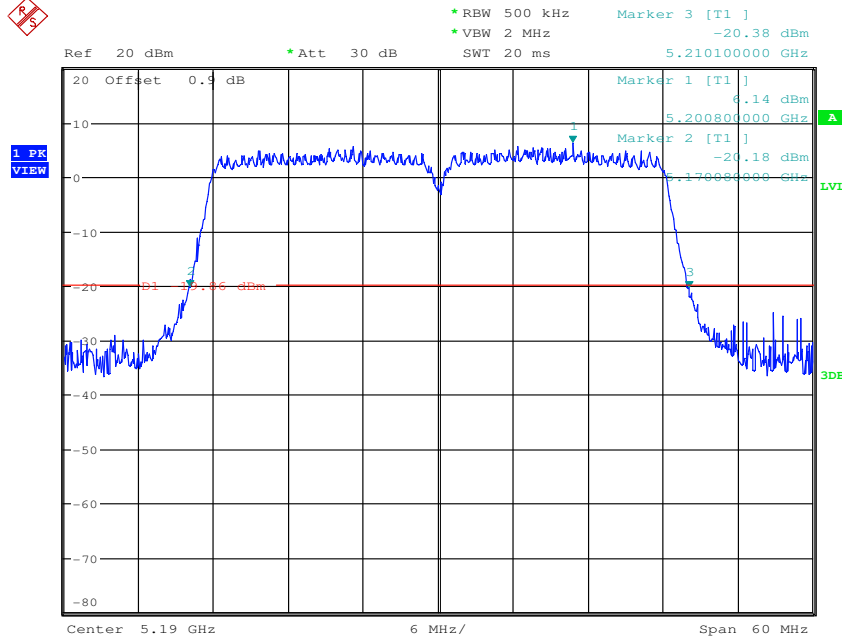


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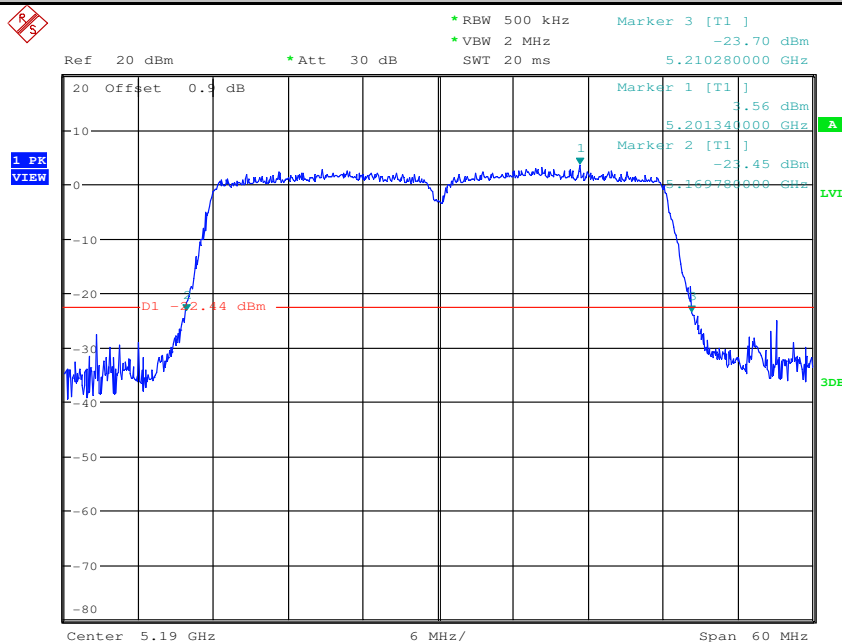




Emission Bandwidth Measurement_11AC40_5190_Ant4

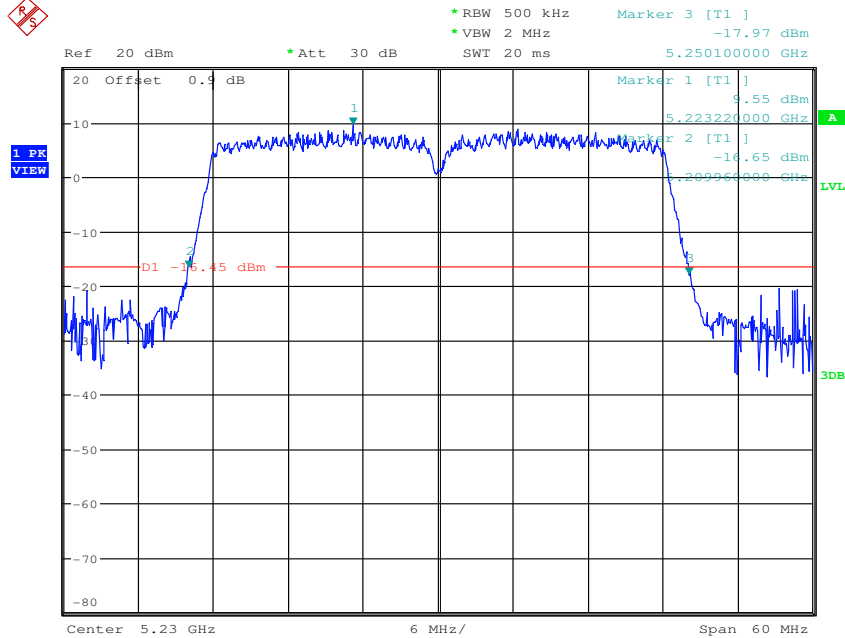


Emission Bandwidth Measurement_11AC40_5190_Ant5

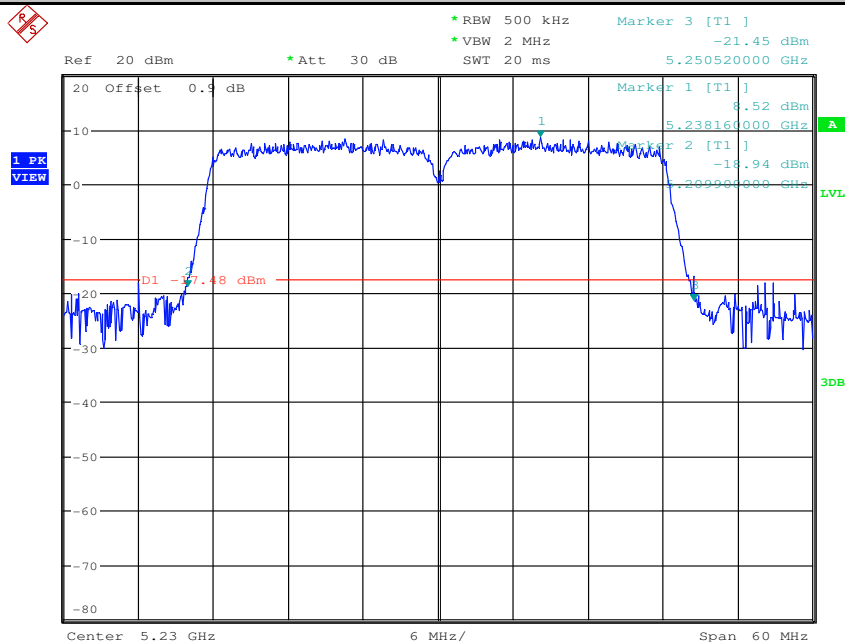




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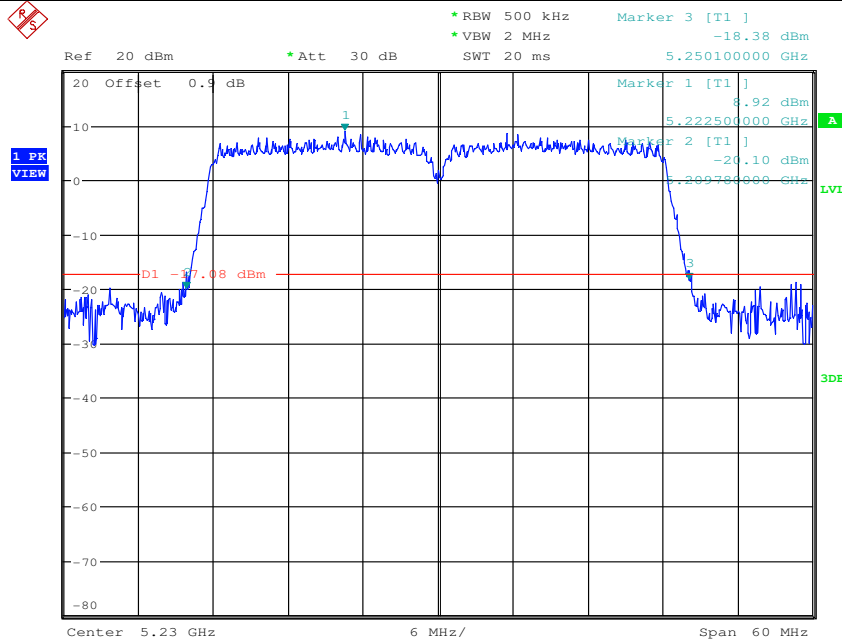


Emission Bandwidth Measurement_11AC40_5230_Ant3

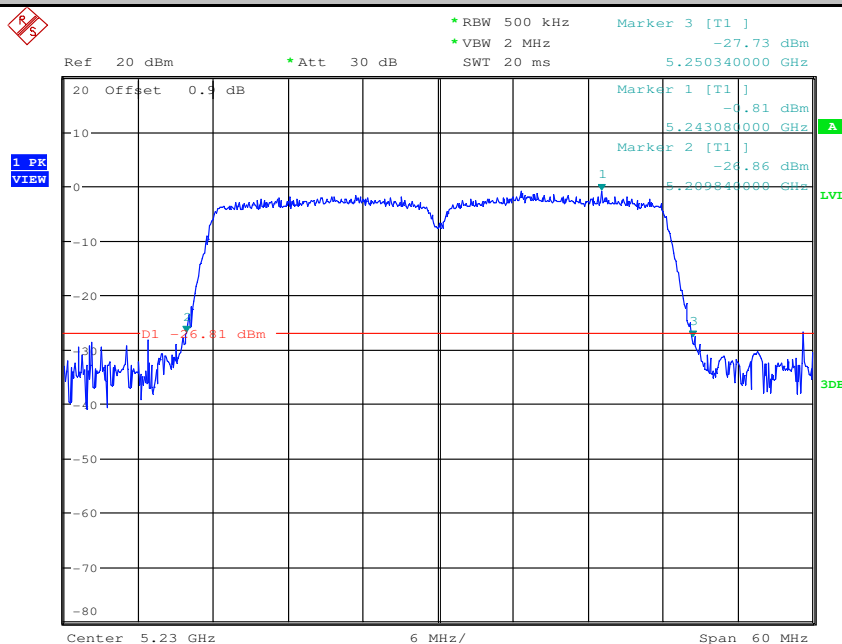




Emission Bandwidth Measurement_11AC40_5230_Ant4

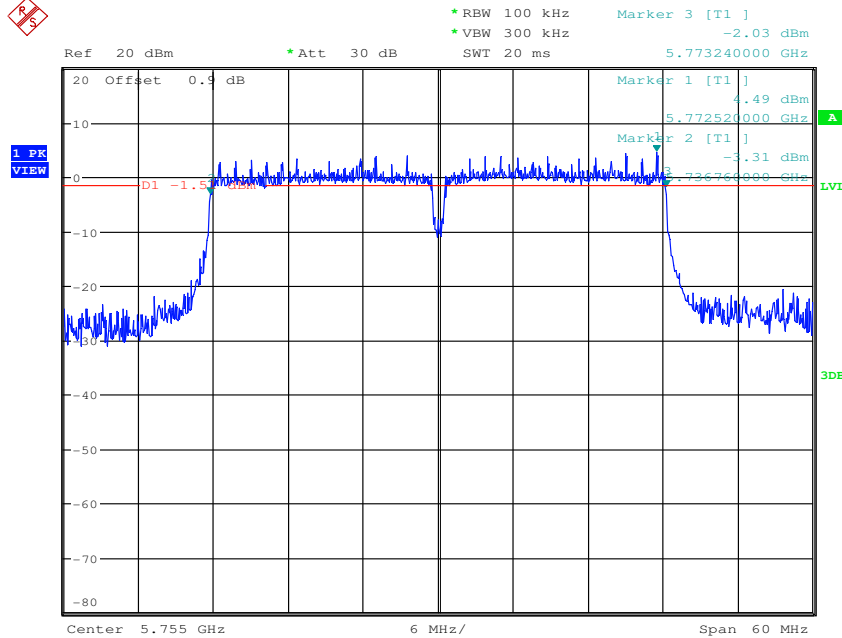


Emission Bandwidth Measurement_11AC40_5230_Ant5

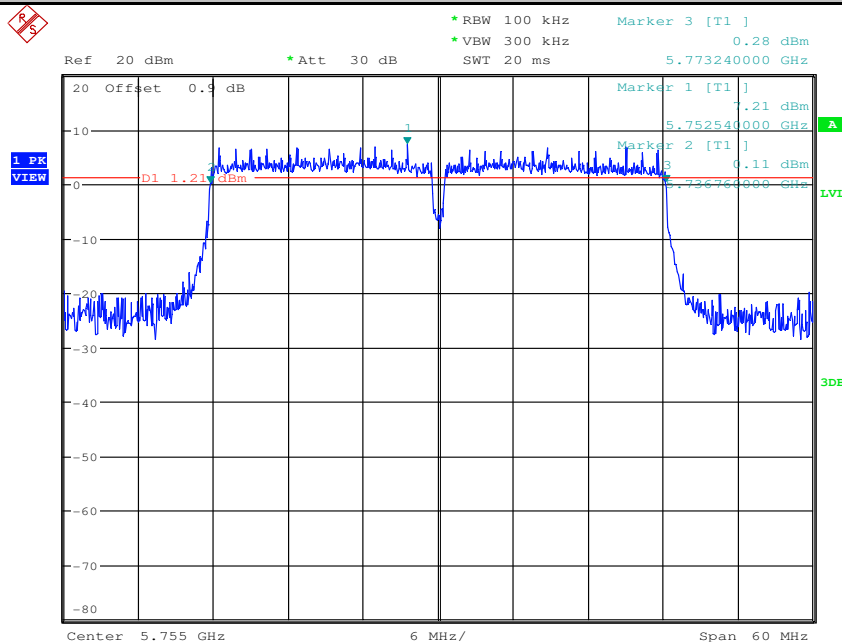




Emission Bandwidth Measurement_11AC40_5755_Ant2

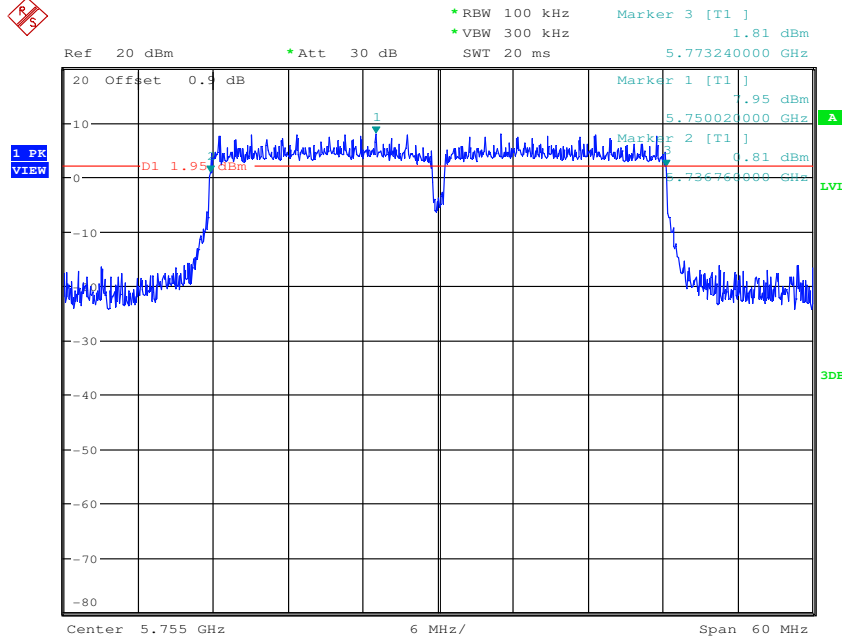


Emission Bandwidth Measurement_11AC40_5755_Ant3

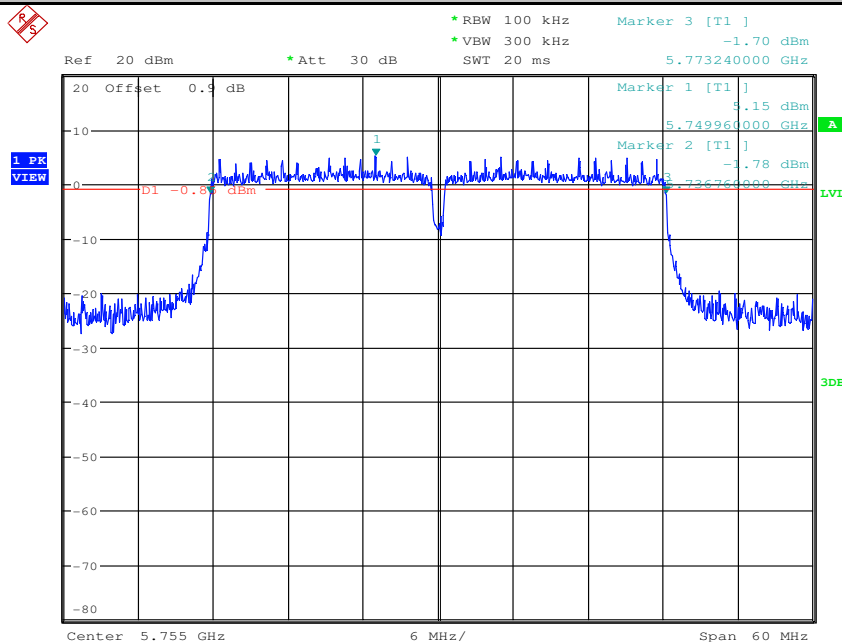




Emission Bandwidth Measurement_11AC40_5755_Ant4

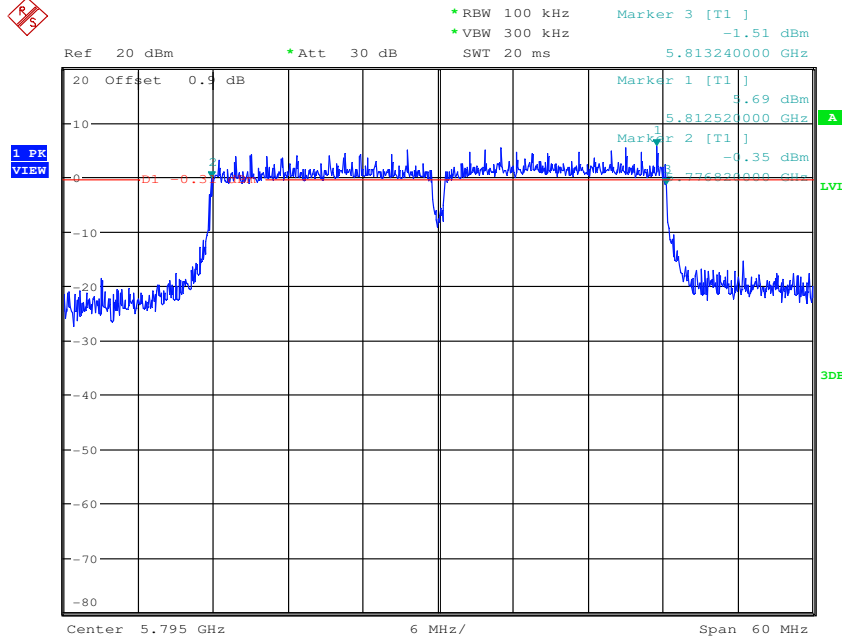


Emission Bandwidth Measurement_11AC40_5755_Ant5

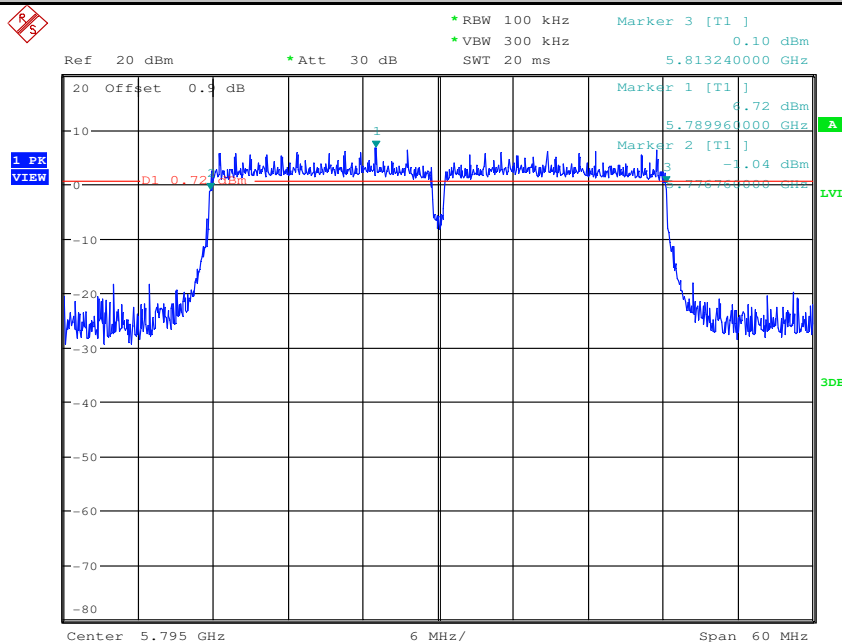




Emission Bandwidth Measurement_11AC40_5795_Ant2

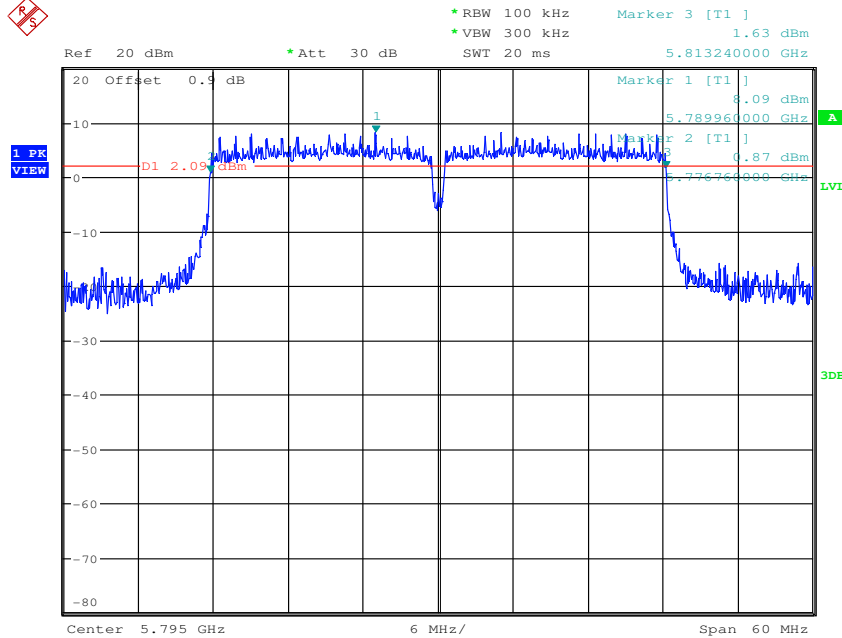


Emission Bandwidth Measurement_11AC40_5795_Ant3

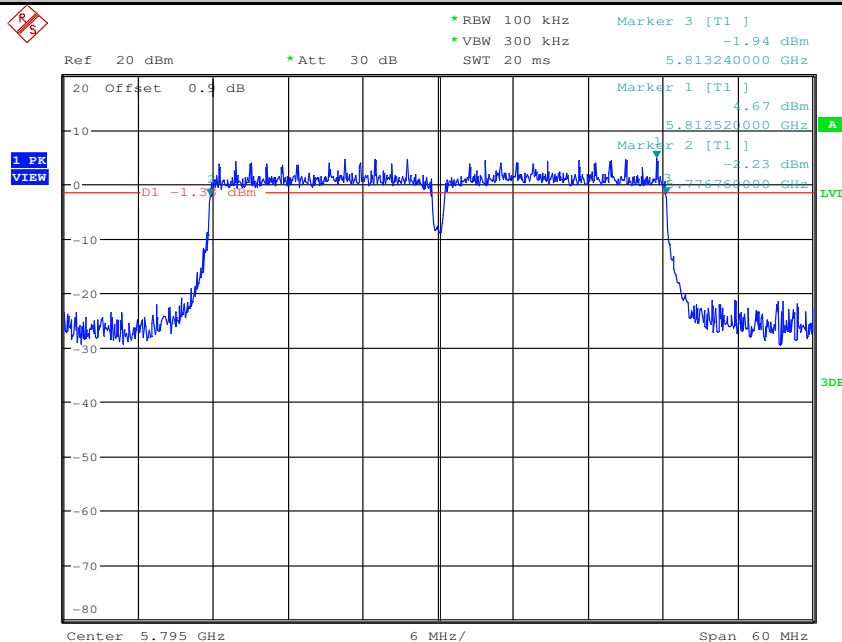




Emission Bandwidth Measurement_11AC40_5795_Ant4

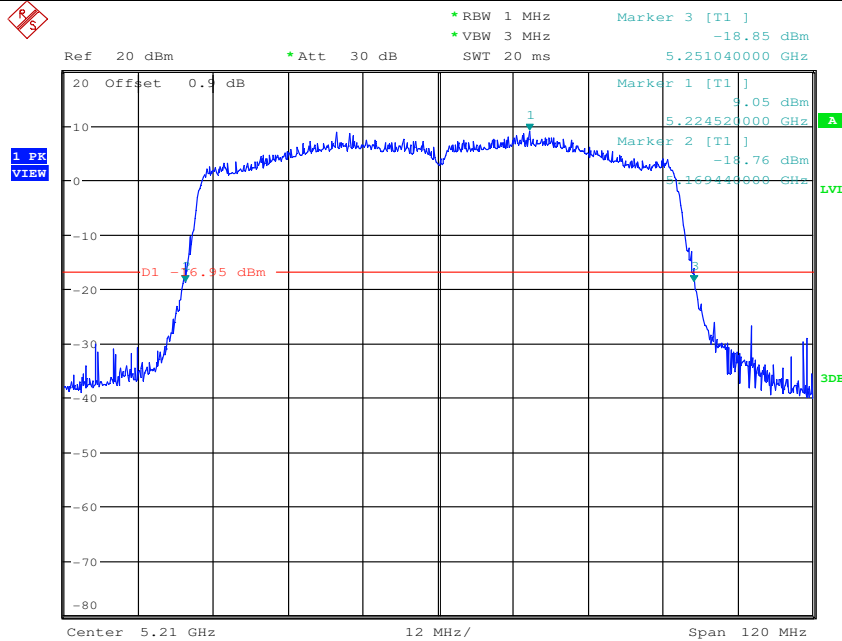


Emission Bandwidth Measurement_11AC40_5795_Ant5

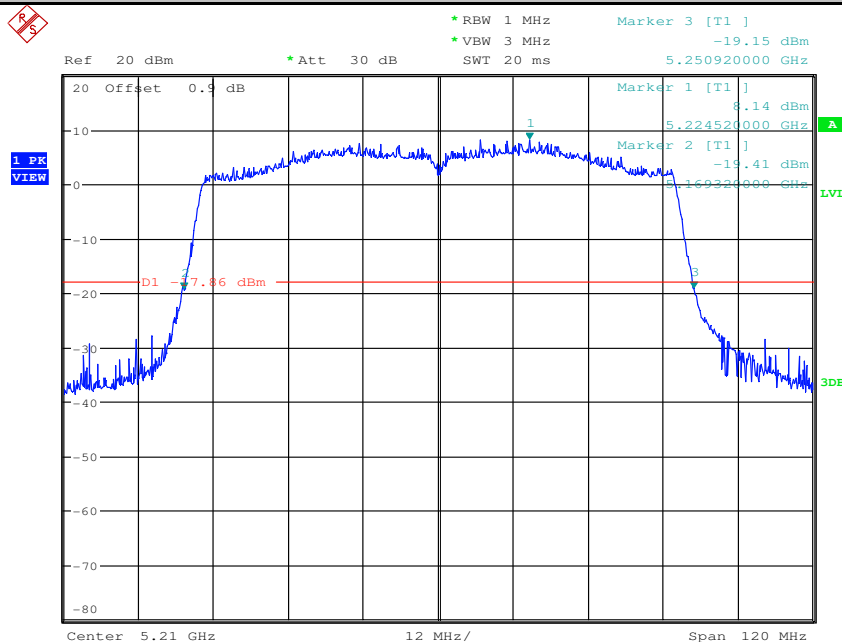




Emission Bandwidth Measurement_11AC80_5210_Ant2

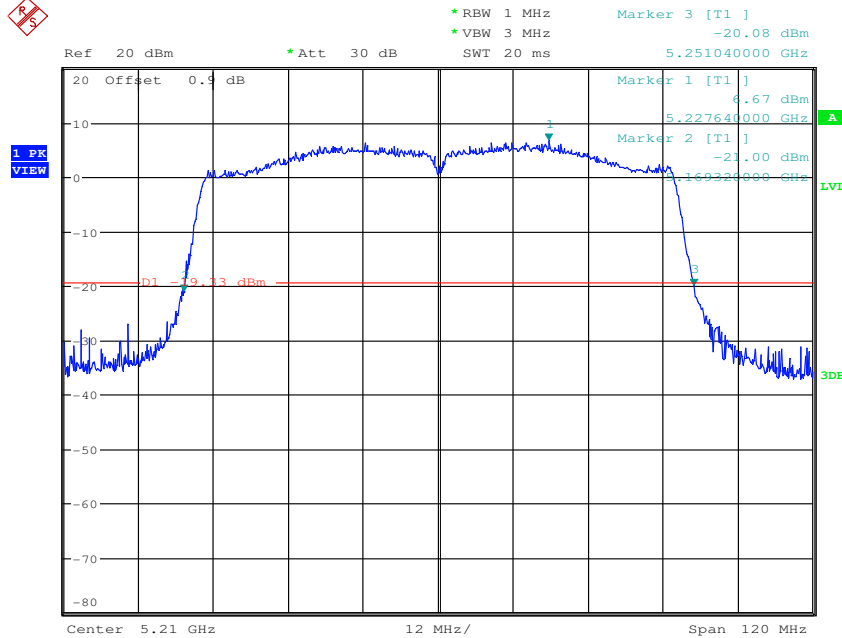


Emission Bandwidth Measurement_11AC80_5210_Ant3

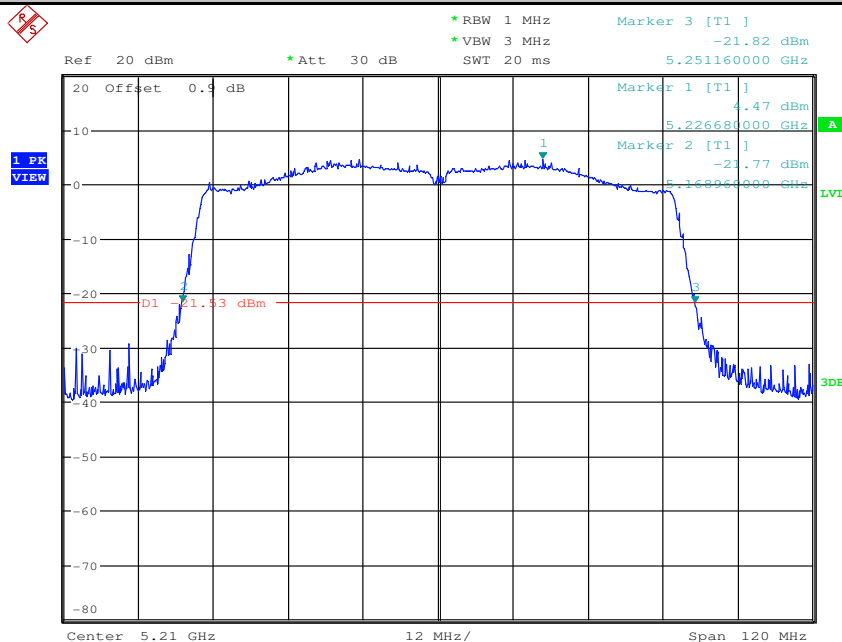




Emission Bandwidth Measurement_11AC80_5210_Ant4

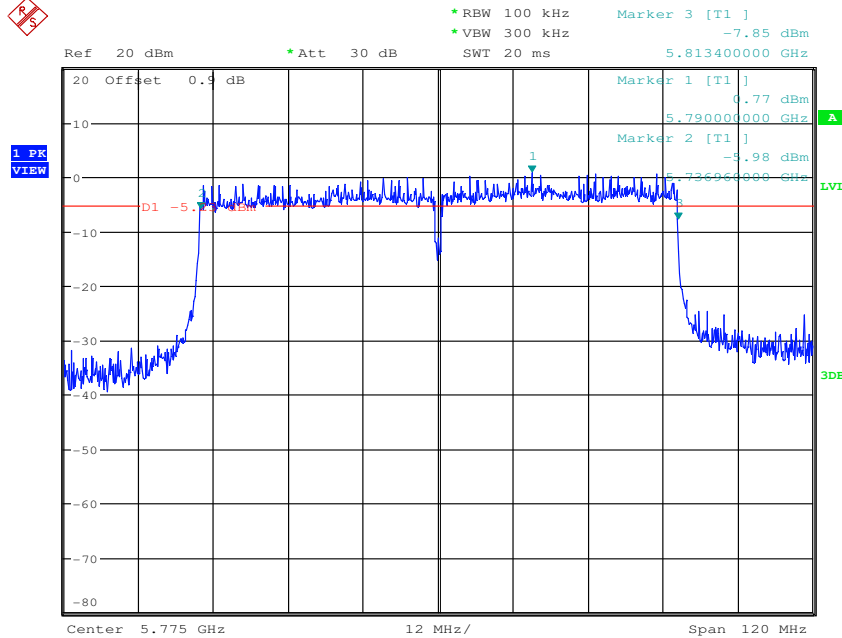


Emission Bandwidth Measurement_11AC80_5210_Ant5

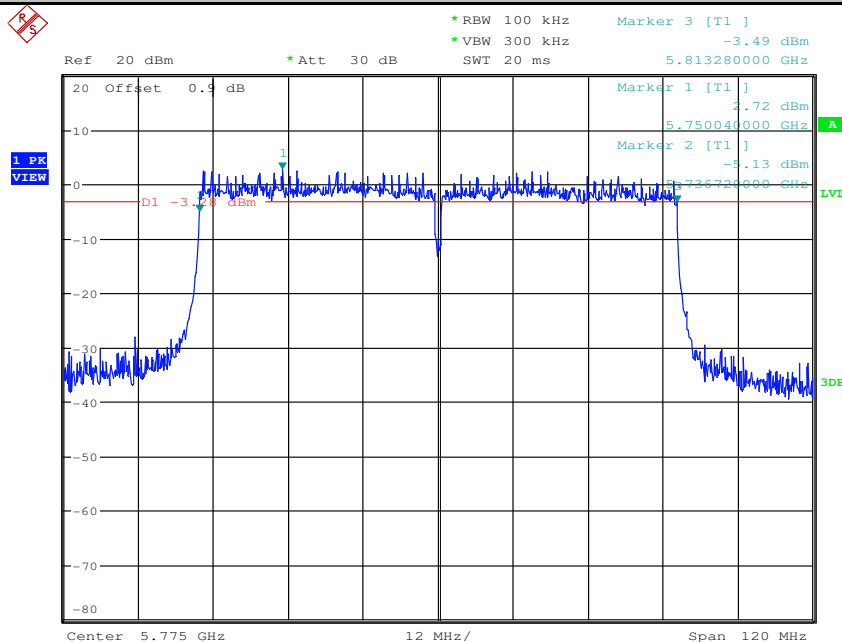




Emission Bandwidth Measurement_11AC80_5775_Ant2

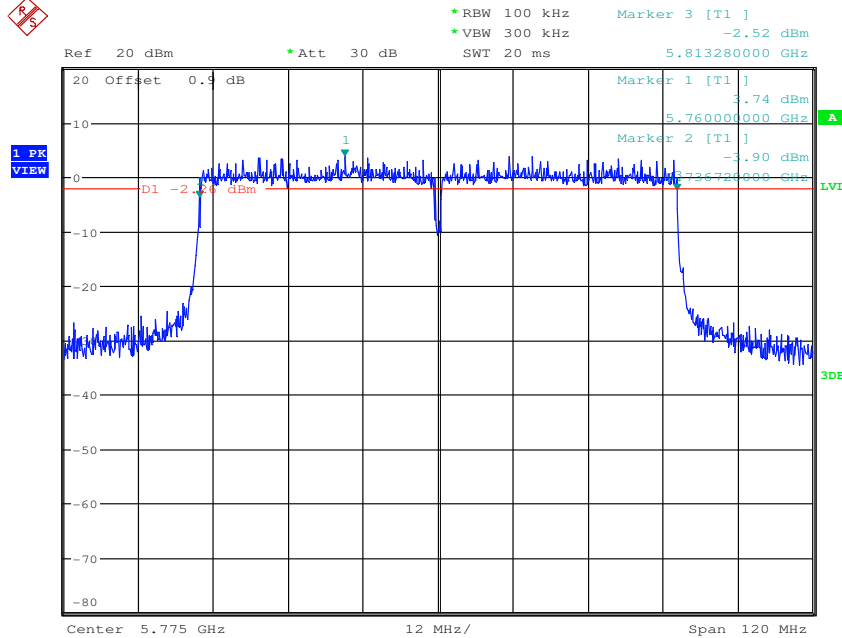


Emission Bandwidth Measurement_11AC80_5775_Ant3

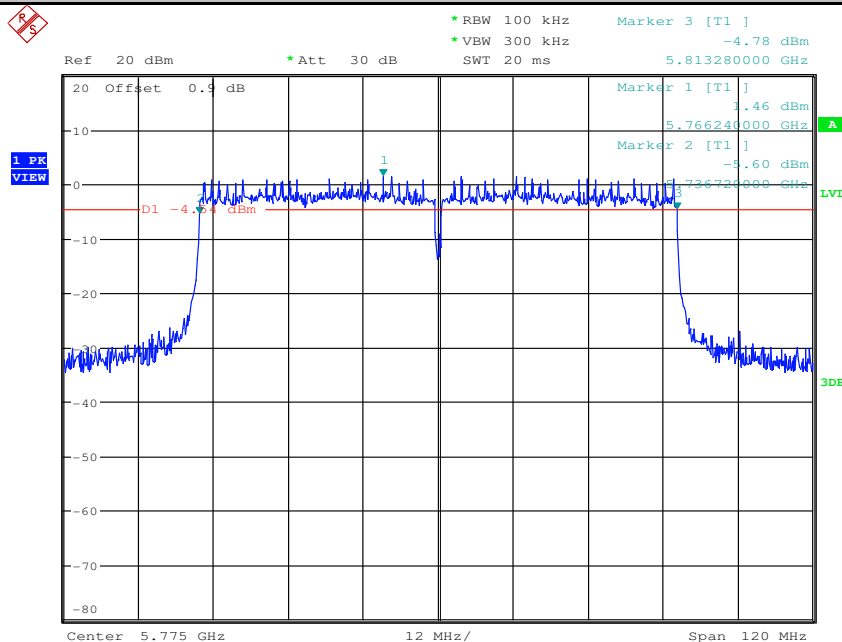




Emission Bandwidth Measurement_11AC80_5775_Ant4



Emission Bandwidth Measurement_11AC80_5775_Ant5





2. Occupied Bandwidth Measurement

Test Mode	Test Channel	Ant	OBW[MHz]	Limit[MHz]	Verdict
11A	5180	Ant2	17.220	---	PASS
11A	5180	Ant3	17.310	---	PASS
11A	5180	Ant4	17.370	---	PASS
11A	5180	Ant5	17.310	---	PASS
11A	5200	Ant2	17.280	---	PASS
11A	5200	Ant3	17.430	---	PASS
11A	5200	Ant4	17.340	---	PASS
11A	5200	Ant5	17.340	---	PASS
11A	5240	Ant2	17.310	---	PASS
11A	5240	Ant3	17.520	---	PASS
11A	5240	Ant4	17.370	---	PASS
11A	5240	Ant5	17.310	---	PASS
11A	5745	Ant2	17.670	---	PASS
11A	5745	Ant3	17.610	---	PASS
11A	5745	Ant4	18.180	---	PASS
11A	5745	Ant5	18.840	---	PASS
11A	5785	Ant2	18.810	---	PASS
11A	5785	Ant3	17.580	---	PASS
11A	5785	Ant4	18.210	---	PASS
11A	5785	Ant5	17.550	---	PASS
11A	5825	Ant2	20.010	---	PASS
11A	5825	Ant3	17.760	---	PASS
11A	5825	Ant4	18.330	---	PASS
11A	5825	Ant5	17.430	---	PASS
11N20	5180	Ant2	18.090	---	PASS
11N20	5180	Ant3	18.090	---	PASS
11N20	5180	Ant4	18.090	---	PASS
11N20	5180	Ant5	18.330	---	PASS
11N20	5200	Ant2	18.120	---	PASS
11N20	5200	Ant3	18.120	---	PASS
11N20	5200	Ant4	18.060	---	PASS
11N20	5200	Ant5	18.330	---	PASS
11N20	5240	Ant2	18.120	---	PASS
11N20	5240	Ant3	18.060	---	PASS
11N20	5240	Ant4	18.030	---	PASS
11N20	5240	Ant5	18.330	---	PASS
11N20	5745	Ant2	18.450	---	PASS
11N20	5745	Ant3	18.240	---	PASS
11N20	5745	Ant4	18.360	---	PASS
11N20	5745	Ant5	18.810	---	PASS
11N20	5785	Ant2	18.630	---	PASS



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11N20	5785	Ant3	18.240	---	PASS
11N20	5785	Ant4	18.390	---	PASS
11N20	5785	Ant5	18.600	---	PASS
11N20	5825	Ant2	18.930	---	PASS
11N20	5825	Ant3	18.300	---	PASS
11N20	5825	Ant4	18.420	---	PASS
11N20	5825	Ant5	18.510	---	PASS
11N40	5190	Ant2	36.360	---	PASS
11N40	5190	Ant3	36.480	---	PASS
11N40	5190	Ant4	36.360	---	PASS
11N40	5190	Ant5	36.600	---	PASS
11N40	5230	Ant2	36.360	---	PASS
11N40	5230	Ant3	36.540	---	PASS
11N40	5230	Ant4	36.480	---	PASS
11N40	5230	Ant5	36.660	---	PASS
11N40	5755	Ant2	36.600	---	PASS
11N40	5755	Ant3	36.660	---	PASS
11N40	5755	Ant4	36.660	---	PASS
11N40	5755	Ant5	37.080	---	PASS
11N40	5795	Ant2	36.960	---	PASS
11N40	5795	Ant3	36.720	---	PASS
11N40	5795	Ant4	36.660	---	PASS
11N40	5795	Ant5	36.900	---	PASS
11AC20	5180	Ant2	18.120	---	PASS
11AC20	5180	Ant3	18.090	---	PASS
11AC20	5180	Ant4	18.060	---	PASS
11AC20	5180	Ant5	18.300	---	PASS
11AC20	5200	Ant2	18.120	---	PASS
11AC20	5200	Ant3	18.090	---	PASS
11AC20	5200	Ant4	18.030	---	PASS
11AC20	5200	Ant5	18.360	---	PASS
11AC20	5240	Ant2	18.120	---	PASS
11AC20	5240	Ant3	18.090	---	PASS
11AC20	5240	Ant4	18.030	---	PASS
11AC20	5240	Ant5	18.360	---	PASS
11AC20	5745	Ant2	18.270	---	PASS
11AC20	5745	Ant3	18.240	---	PASS
11AC20	5745	Ant4	18.390	---	PASS
11AC20	5745	Ant5	18.810	---	PASS
11AC20	5785	Ant2	18.600	---	PASS
11AC20	5785	Ant3	18.240	---	PASS
11AC20	5785	Ant4	18.210	---	PASS
11AC20	5785	Ant5	18.660	---	PASS
11AC20	5825	Ant2	18.960	---	PASS
11AC20	5825	Ant3	18.270	---	PASS

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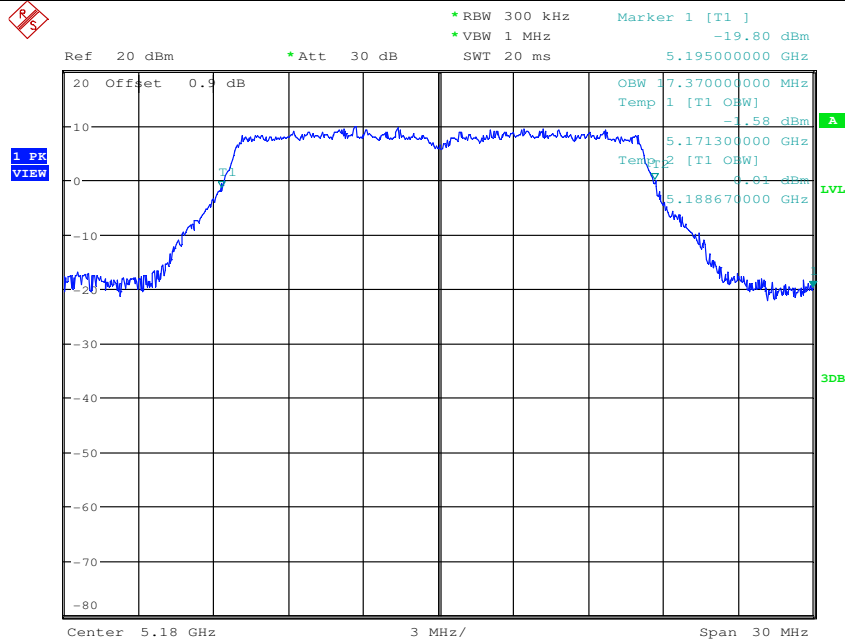
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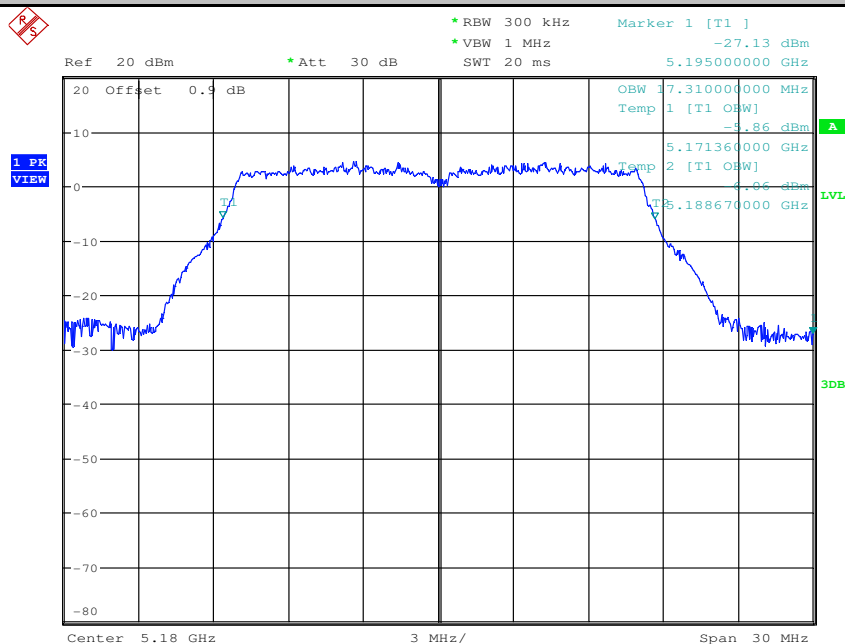
11AC20	5825	Ant4	18.210	---	PASS
11AC20	5825	Ant5	18.540	---	PASS
11AC40	5190	Ant2	36.360	---	PASS
11AC40	5190	Ant3	36.420	---	PASS
11AC40	5190	Ant4	36.360	---	PASS
11AC40	5190	Ant5	36.600	---	PASS
11AC40	5230	Ant2	36.420	---	PASS
11AC40	5230	Ant3	36.480	---	PASS
11AC40	5230	Ant4	36.420	---	PASS
11AC40	5230	Ant5	36.660	---	PASS
11AC40	5755	Ant2	36.660	---	PASS
11AC40	5755	Ant3	36.540	---	PASS
11AC40	5755	Ant4	36.660	---	PASS
11AC40	5755	Ant5	37.020	---	PASS
11AC40	5795	Ant2	37.020	---	PASS
11AC40	5795	Ant3	36.600	---	PASS
11AC40	5795	Ant4	36.660	---	PASS
11AC40	5795	Ant5	36.900	---	PASS
11AC80	5210	Ant2	75.000	---	PASS
11AC80	5210	Ant3	75.120	---	PASS
11AC80	5210	Ant4	75.000	---	PASS
11AC80	5210	Ant5	75.000	---	PASS
11AC80	5775	Ant2	76.320	---	PASS
11AC80	5775	Ant3	76.200	---	PASS
11AC80	5775	Ant4	76.200	---	PASS
11AC80	5775	Ant5	76.440	---	PASS



Occupied Bandwidth Measurement_11A_5180_Ant4

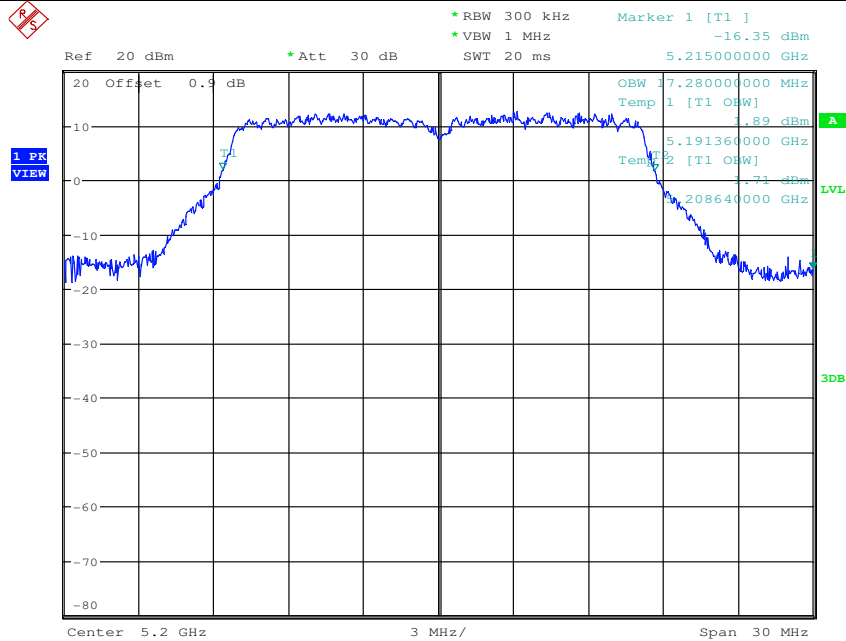


Occupied Bandwidth Measurement_11A_5180_Ant5

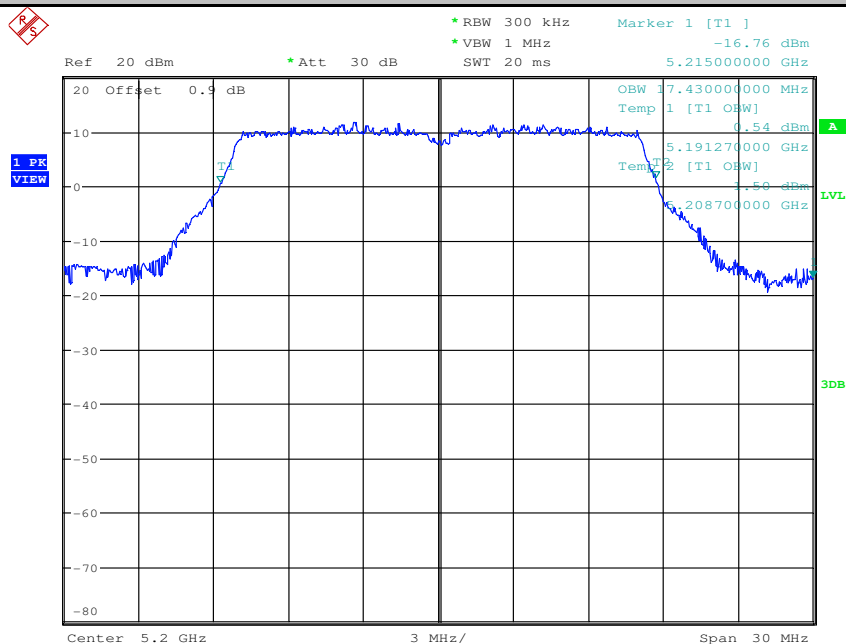




Occupied Bandwidth Measurement_11A_5200_Ant2

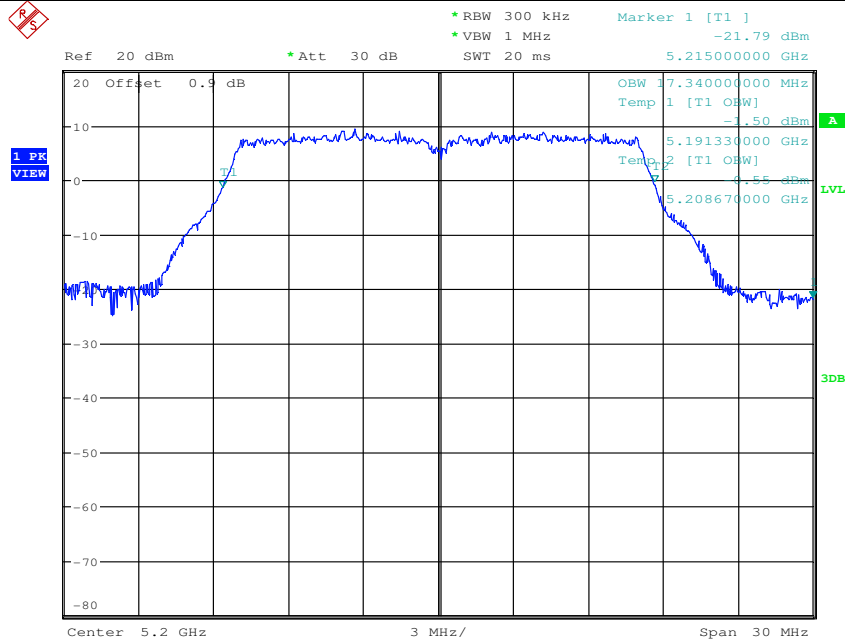


Occupied Bandwidth Measurement_11A_5200_Ant3

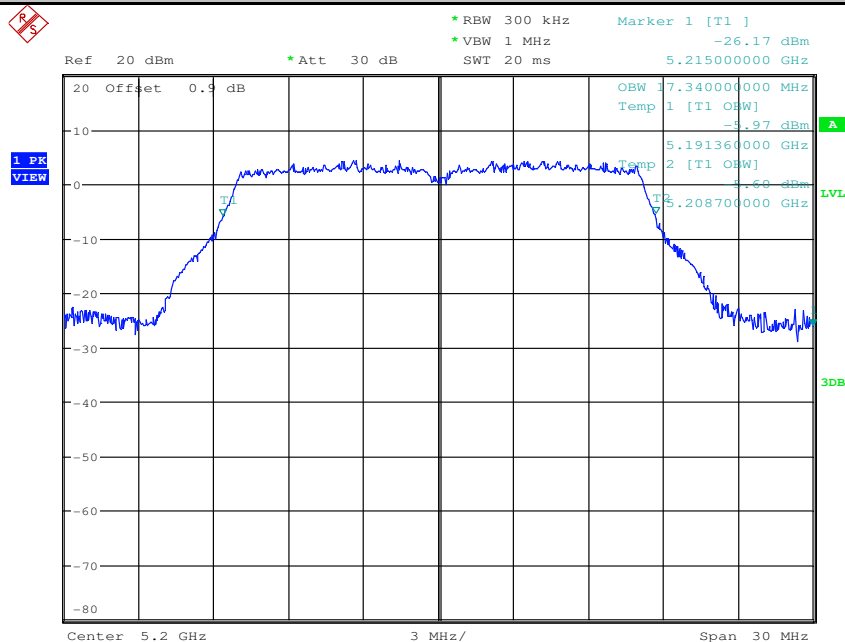




Occupied Bandwidth Measurement_11A_5200_Ant4

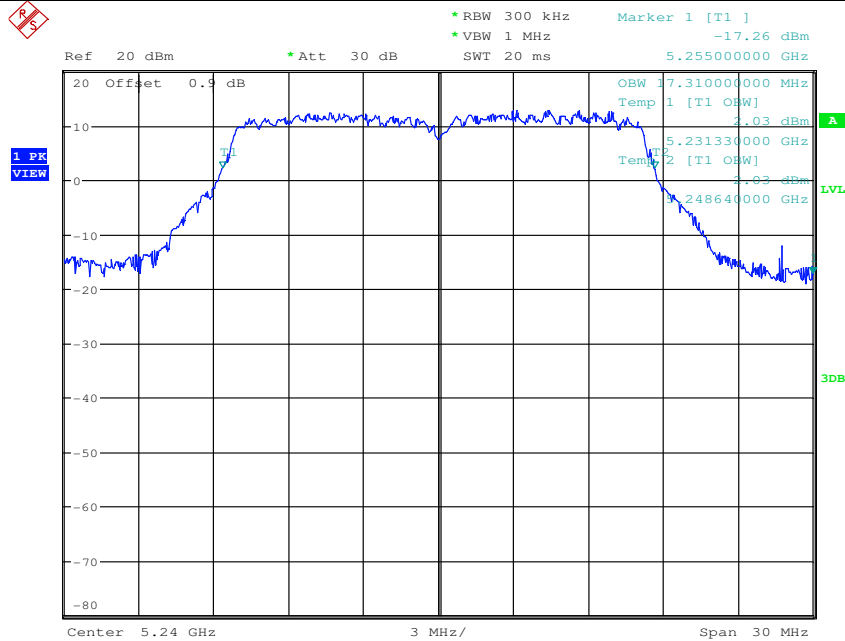


Occupied Bandwidth Measurement_11A_5200_Ant5

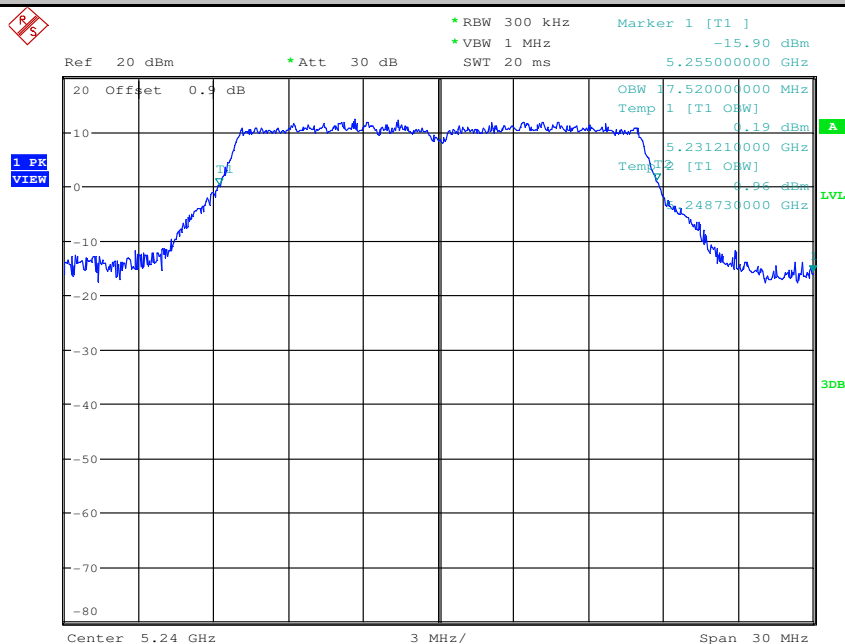




Occupied Bandwidth Measurement_11A_5240_Ant2

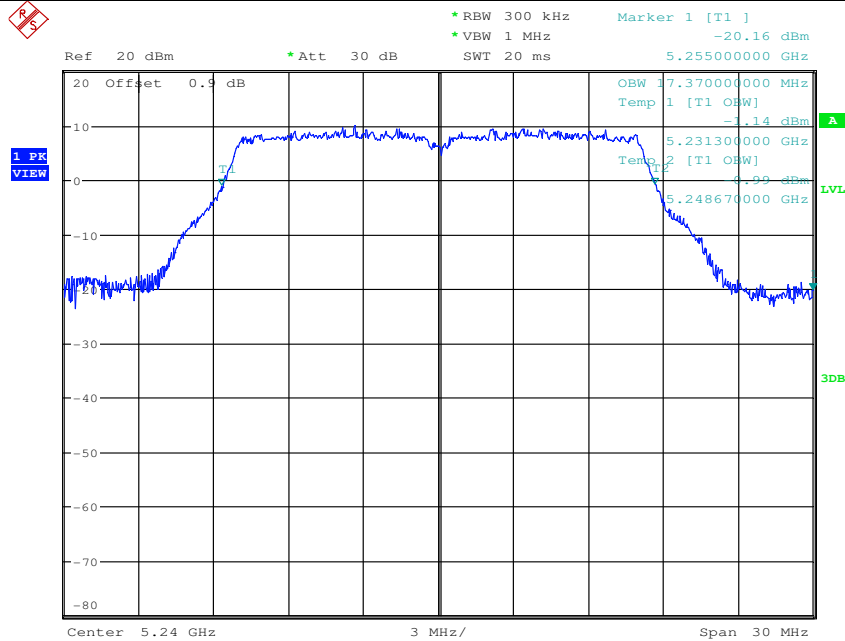


Occupied Bandwidth Measurement_11A_5240_Ant3

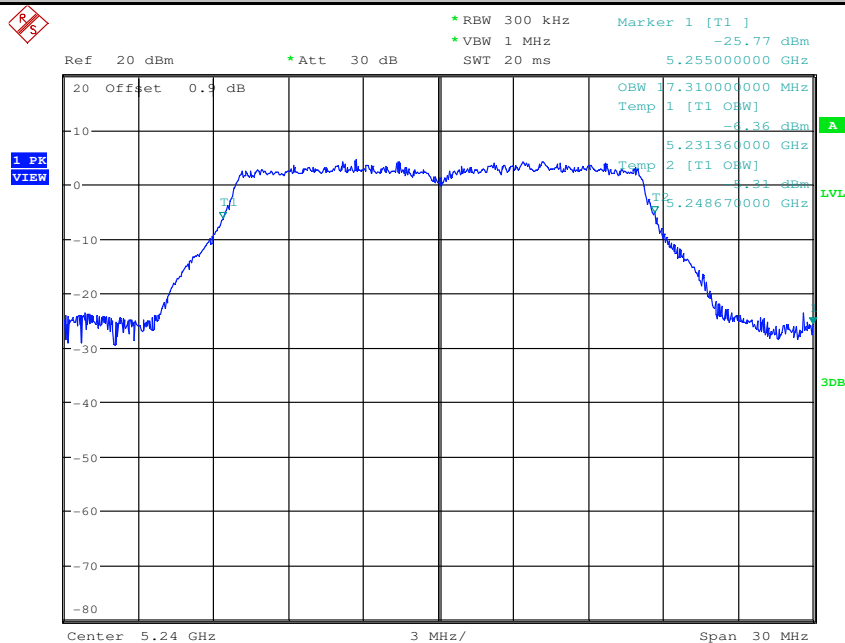




Occupied Bandwidth Measurement_11A_5240_Ant4

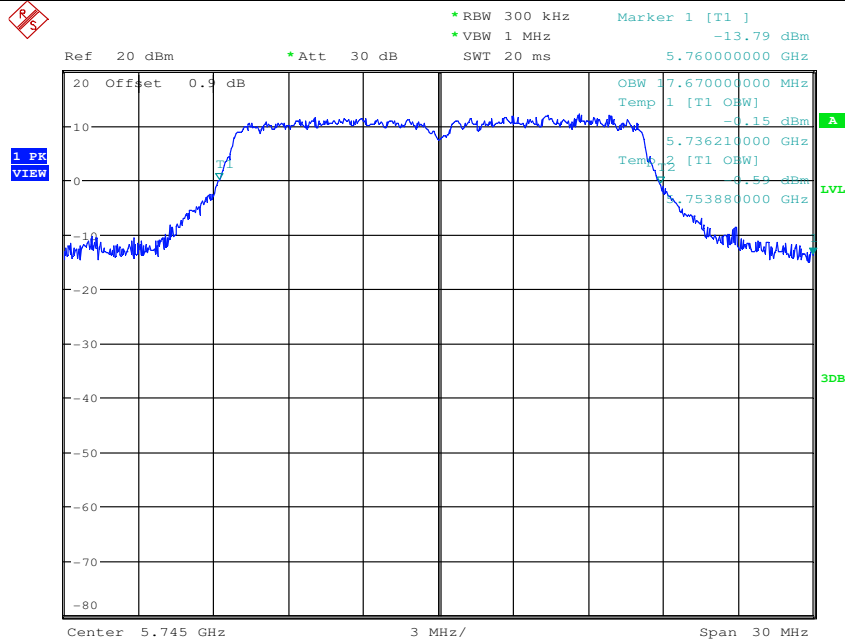


Occupied Bandwidth Measurement_11A_5240_Ant5

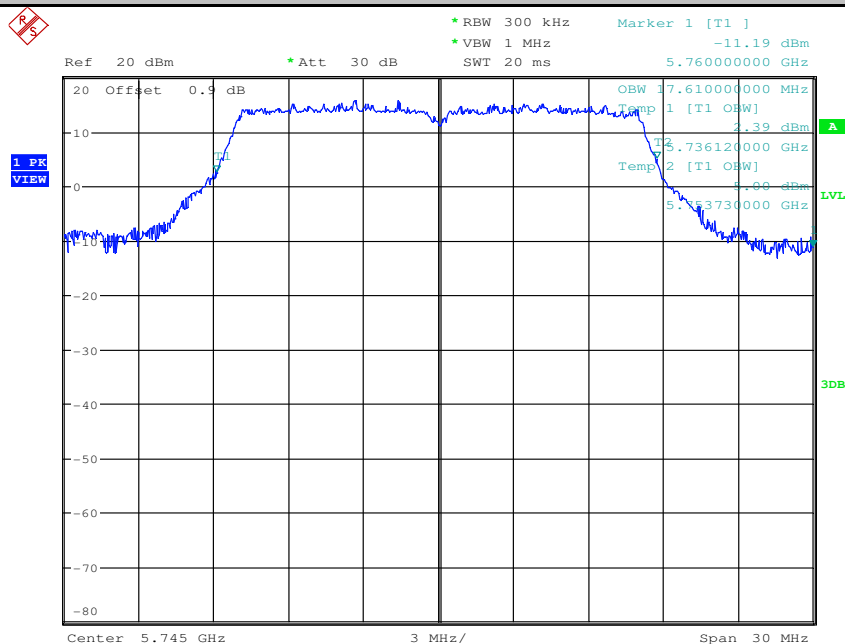




Occupied Bandwidth Measurement_11A_5745_Ant2

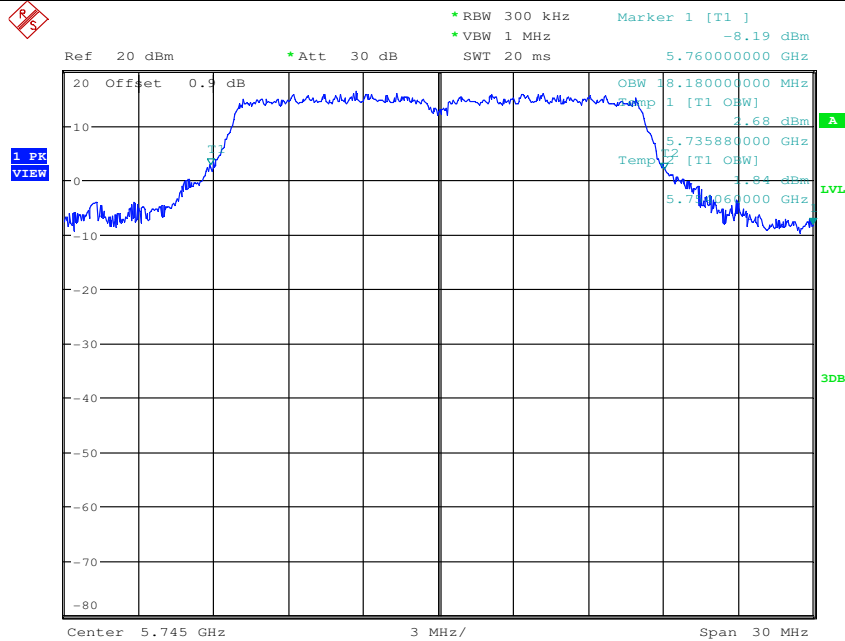


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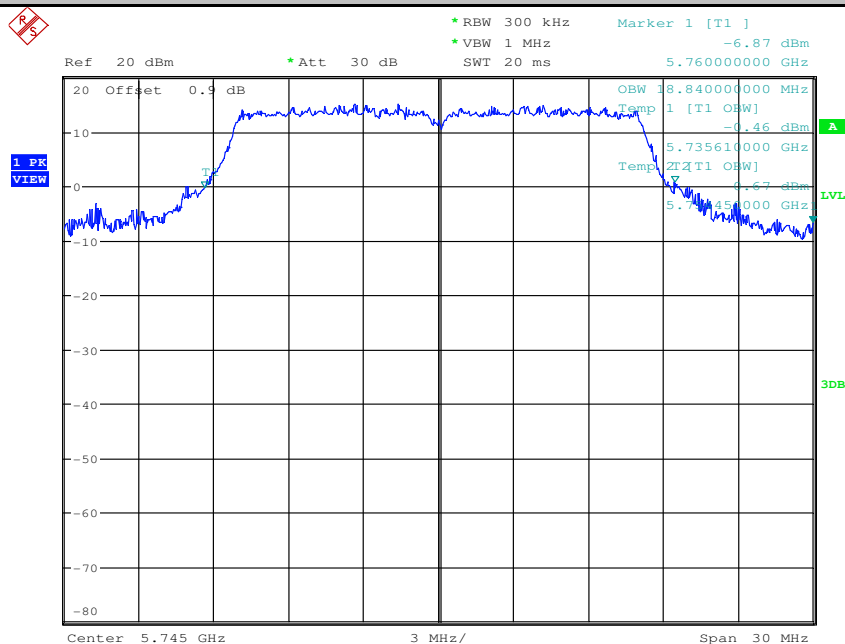




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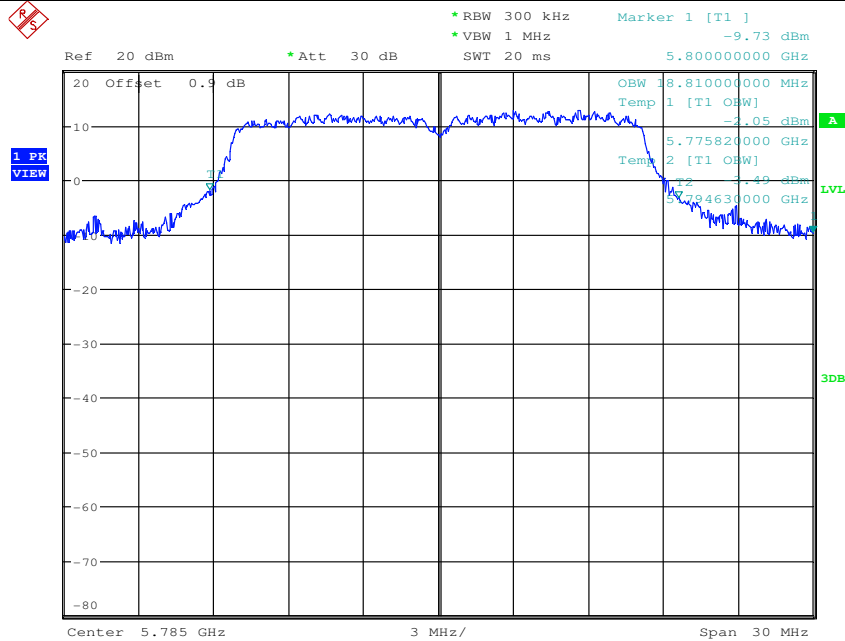


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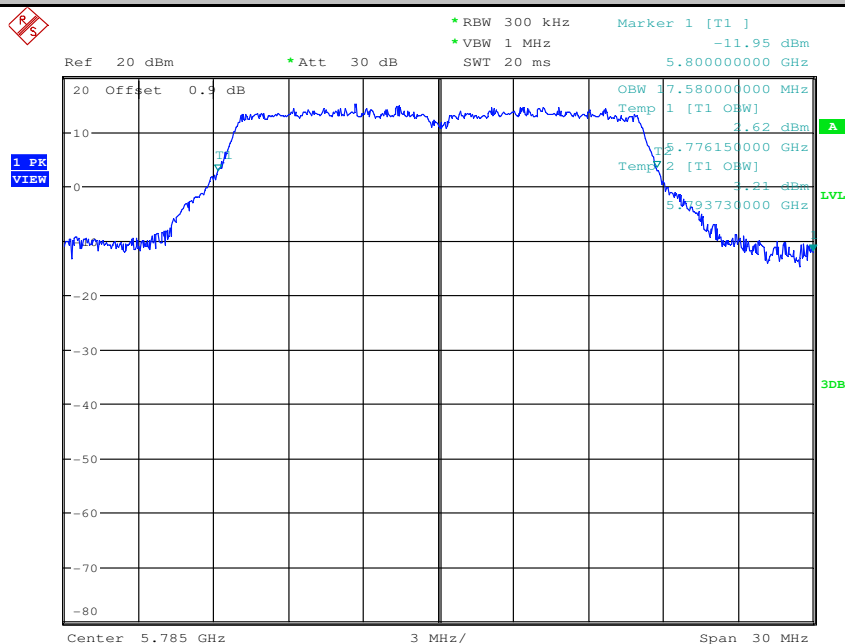




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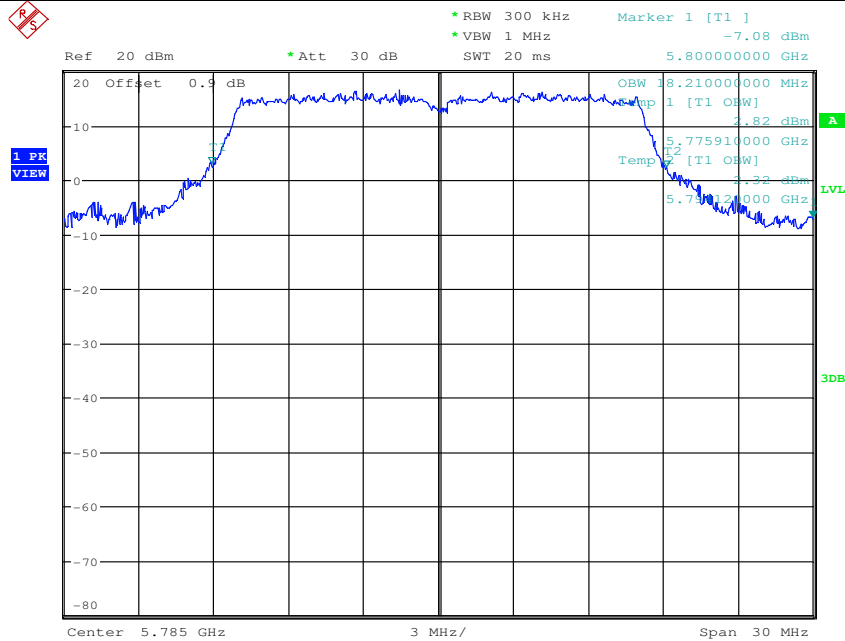


Occupied Bandwidth Measurement_11A_5785_Ant3





Occupied Bandwidth Measurement_11A_5785_Ant4



Occupied Bandwidth Measurement_11A_5785_Ant5

