

TEST REPORT

Applicant Name & : POMCUBE Inc.
Address : 19363 Brockton Ln Saratoga California United States 95070

Sample Description

Product : iCAN
FCC ID : 2AGZ2-PO1AAW1
Model No. : PO1-AAW1
Electrical Rating : 90-130Vac/60Hz/Max.10A

Date Received : 03 November 2015

Date Test Conducted : 05 November 2015-22 March 2016

Test standards : 47 CFR PART 15 Subpart C: 2014 section 15.407

Test Result : Pass

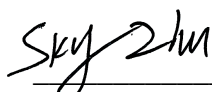
Conclusion : The submitted samples complied with the above rules/standards.

Remark : None.

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Prepared and Checked By:

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25 March 2016 **Date**

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Report No.: 151103034GZU-003
Issued: 2016-3-25

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1.0 Summary of Test

TEST	TEST REQUIREMENT	TEST METHOD	RESULT
Antenna Requirement	FCC PART 15 C clause 15.203	FCC PART 15 C clause 15.247 (c) and clause 15.203	PASS
26 dB Bandwidth / 99% Occupied Bandwidth	FCC PART 15 C clause 15.407(a)	FCC KDB 789033 D02 General UNII Test Procedures New Rules v01, Clause C&D	PASS
6 dB Bandwidth	FCC PART 15 C clause 15.407(e) Only for band IV	FCC KDB 789033 D02 General UNII Test Procedures New Rules v01, Clause C	PASS
Maximum Conducted Output Power	FCC PART 15 C clause 15.407(a)	FCC KDB 789033 D02 General UNII Test Procedures New Rules v01, Clause E	PASS
Maximum Peak Power Spectral Density	FCC PART 15 C clause 15.407(a)	FCC KDB 789033 D02 General UNII Test Procedures New Rules v01, Clause F	PASS
Radiated spurious emission	FCC PART 15 C clause 15.407(b)	FCC KDB 789033 D02 General UNII Test Procedures New Rules v01, Clause G	PASS
Band Edge	FCC PART 15 C clause 15.407(b)	FCC KDB 789033 D02 General UNII Test Procedures New Rules v01, Clause G	PASS
Frequency Stability	FCC PART 15 C clause 15.407(g)	ANSI C63.10: clause 6.8	PASS
Conducted Emissions at Mains Terminals	FCC PART 15 C section 15.207	ANSI C63.10: Clause 6.2	PASS

Remark:

N/A: not applicable. Refer to the relative section for the details.
EUT: In this whole report EUT means Equipment Under Test.
Tx: In this whole report Tx (or tx) means Transmitter.
Rx: In this whole report Rx (or rx) means Receiver.
RF: In this whole report RF means Radio Frequency.
ANSI C63.10: the detail version is ANSI C63.10:2013 in the whole report.

2.0 General Description

2.1 Product Description

Operating Frequency	Band I 5150 MHz to 5250 MHz and Band IV 5725 MHz to 5850MHz for 802.11an(HT20,HT40)/ac(HT20,HT40,HT80)
Type of Modulation:	802.11an: OFDM (BPSK/QPSK/16QAM/64QAM) 802.11ac: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)
Transmit Data Rate:	802.11an(HT20): MCS0: 7.2Mbps, MCS1:14.2Mbps, MCS2:21.7Mbps, MCS3:28.9Mbps, MCS4:43.3Mbps, MCS5:57.8Mbps, MCS6:65.0Mbps, MCS7:72.2Mbps 802.11an(HT40): MCS0:15Mbps, MCS1:30Mbps, MCS2:45Mbps, MCS3:60Mbps, MCS4:90Mbps, MCS5:120Mbps, MCS6:135Mbps, MCS7:150Mbps 802.11ac(HT20): MCS0: 7.2Mbps, MCS1:14.2Mbps, MCS2:21.7Mbps, MCS3:28.9Mbps, MCS4:43.3Mbps, MCS5:57.8Mbps, MCS6:65.0Mbps, MCS7:72.2Mbps, MCS8: 86.7MbPS 802.11ac(HT40): MCS0:15Mbps, MCS1:30Mbps, MCS2:45Mbps, MCS3:60Mbps, MCS4:90Mbps, MCS5:120Mbps,MCS6:135Mbps,MCS7:150Mbps,MCS8:180Mbps, MCS9:200Mbps 802.11ac(HT80): MCS0:32.5Mbps, MCS1:65Mbps, MCS2:97.5Mbps, MCS3:130Mbps, MCS4:195Mbps, MCS5:260Mbps,MCS6:292.5Mbps,MCS7:325Mbps,MCS8:390Mbps, MCS9:433.3Mbps
Number of Channels	Band I 5150MHz to 5250MHz 4 Channels for 802.11an(HT20)/ac(HT20) 2 Channels for 802.11an(HT40)/ac(HT40) 1 Channels for 802.11ac(HT80) Band IV 5725MHz to 5850MHz 5 Channels for 802.11an(HT20)/ac(HT20) 2 Channels for 802.11an(HT40)/ac(HT40) 1 Channels for 802.11ac(HT80)
Channel Separation:	20 MHz
Antenna Type	The wire antenna that uses a unique coupling to the intentional radiator
Antenna gain:	2.1 dBi



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Function:	Transmitter information with 5 GHz WIFI
EUT Power Supply:	AC 120V 60 Hz
Power cord:	1.1 m x 3 wires unscreened AC supply cable

EUT channels and frequencies list:

Band I 5150 MHz to 5250 MHz

For 802.11an (HT20)/ac (HT20): test frequencies are lowest channel 36: 5180 MHz, middle channel 44: 5220 MHz and highest channel 48: 5240.

For 802.11an(HT40)/ac(HT40): test frequencies are lowest channel 38: 5190 MHz and highest channel 46: 5230 MHz

For 802.11ac(HT80): test frequencies is channel 42: 5210 MHz

Band I 5725 MHz to 5850 MHz

For 802.11an (HT20)/ac (HT20): test frequencies are lowest channel 149: 5745 MHz, middle channel 157: 5785 MHz and highest channel 165: 5825 MHz

For 802.11an(HT40)/ac(HT40): test frequencies are lowest channel 151: 5755 MHz and highest channel 159: 5795 MHz

For 802.11ac(HT80): test frequencies is channel 155: 5775 MHz

For WIFI an(HT 20)/WIFI ac(HT20):

Band I(5150MHz-5250MHz)		Band IV(5725MHz-5850MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	149	5745
40	5200	153	5765
44	5220	157	5785
48	5240	161	5805
		165	5825

For WIFI an(HT 40)/WIFI ac(HT40):

Band I(5150MHz-5250MHz)		Band IV(5725MHz-5850MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	151	5755
46	5230	159	5795

For WIFI ac(HT80):

Band I(5150MHz-5250MHz)		Band IV(5725MHz-5850MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	155	5775

2.2 Related Submittal(s) Grants

This is an application for certification of:

Unlicensed National Information Infrastructure Devices (WIFI transmitter portion)

Remaining portions are subject to the following procedures:

1. Receiver portion of WIFI: exempt from technical requirement of this Part.

2.3 Test Methodology

The EUT was performed according to the procedures in FCC Part 15 E, Section15.203, 15.207, 15.209, 15.407 and ANSI C63.4:2014, method of measurement: reference to FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10:2013. Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans and final tests were performed in the semi-anechoic chamber to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise.

2.4 Test Facility

All of the tests are performed at:

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch. located at Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD Guangzhou, 510663, China. This test facility and site measurement data have been fully placed on file with the FCC, test firm registration number is 549654.

3.0 System Test Configuration

3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. During testing, AC power line was manipulated to produce worst case emissions. It was powered by AC 120V/60Hz supply.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in the following table:

Frequency range of radiated emission measurements

Lowest frequency generated in the device	Upper frequency range of measurement
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz, whichever is lower.
At or above 10 GHz to below 30 GHz	5th harmonic of highest fundamental frequency or to 100 GHz, whichever is lower.
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz, whichever is lower, unless otherwise specified.

Number of fundamental frequencies to be tested in EUT transmit band

Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
1 MHz or less	1	Middle
1 MHz to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

3.2 EUT Exercising Software

The test was performed under “MT76xxE-AP” which was provided by manufacture. Use this software can adjust different test frequency and operation mode. Also can adjust the frequency transmit at continues mode, the duty cycle more than 98%.



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3.3 Special Accessories

No special accessories used.

3.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

Uncertainty and Compliance – Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value.

3.5 Equipment Modification

Any modifications installed previous to testing by POMCUBE Inc. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.

3.6 Support Equipment List and Description

This product was tested with corresponding accessories as below:

Supplied by Intertek:

Description	Manufacturer	Model No.	SN/Certificate NO
NoteBook	Lenovo	T430	PB-FR45R

4.0 Measurement Results

4.1 Antenna Requirement:

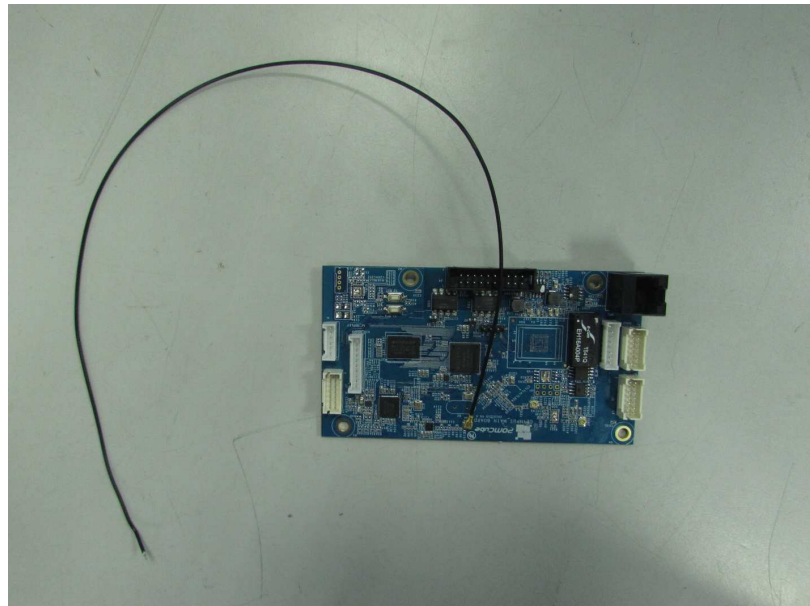
Standard requirement

15.203 requirement:

For intentional device. According to 15.203 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.

EUT Antenna

The antenna is an integral antenna and no consideration of replacement. The best case gain of the antenna is 2.1 dBi.



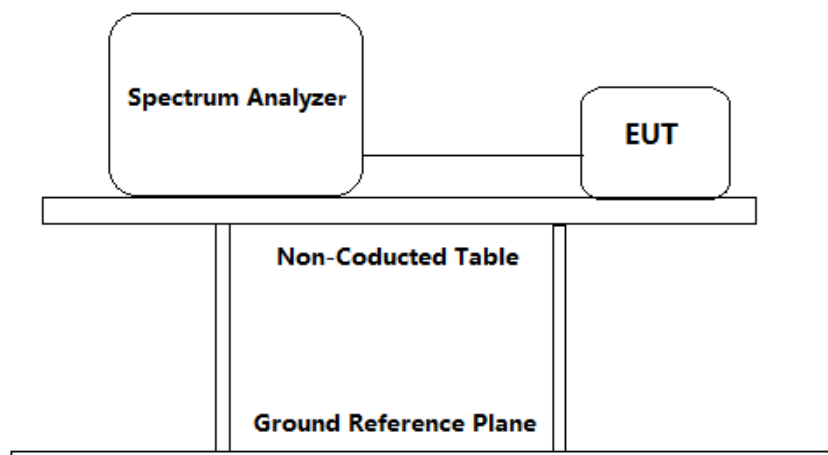
4.2 26 dB Bandwidth:

Test Requirement: FCC PART 15 C clause 15.407(a)

Test Method: FCC KDB 789033 D02 General UNII Test Procedures New Rules v01, Clause C&D

Test Status: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss =2 dB) from the antenna port to the spectrum.
2. Set the spectrum analyzer:
 - a) Set RBW = approximately 1% of the emission bandwidth
 - b) Set the VBW $\geq [3 \times \text{RBW}]$
 - c) Detector = peak.
 - d) Trace mode = max hold.
 - e) Sweep = auto couple
 - f) Allow the trace to stabilize.
 - g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.
3. Repeat until all the test status is investigated.

4. Report the worst case.

Band I (5150MHz-5250MHz)

Channel No.	Frequency (MHz)	Mode	Data Rate	26dB bandwidth (MHz)
36	5180	802.11an (HT20)	72.2 Mbps	20.6
44	5220		72.2 Mbps	20.1
48	5240		72.2 Mbps	17.5
38	5190	802.11an (HT40)	150 Mbps	40.5
46	5230		150 Mbps	40.8
36	5180	802.11ac (HT20)	86.7 Mbps	19.9
44	5220		86.7 Mbps	20.3
48	5240		86.7 Mbps	19.9
38	5190	802.11ac (HT40)	200 Mbps	40.5
46	5230		200 Mbps	40.8
42	5210	802.11ac (HT80)	433.3 Mbps	82.1



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Band I (5150MHz-5250MHz)

Channel No.	Frequency (MHz)	Mode	Data Rate	99% bandwidth (MHz)
48	5240	802.11an (HT20)	72.2 Mbps	17.5
46	5230	802.11an (HT40)	150 Mbps	36.3
48	5240	802.11ac (HT20)	86.7 Mbps	17.6
46	5230	802.11ac (HT40)	200 Mbps	36.3

Band IV (5725MHz-5850MHz)

Channel No.	Frequency (MHz)	Mode	Data Rate	26dB bandwidth (MHz)
149	5745	802.11an (HT20)	72.2 Mbps	19.9
157	5785		72.2 Mbps	20.3
165	5825		72.2 Mbps	20.3
151	5755	802.11an (HT40)	150 Mbps	40.8
159	5795		150 Mbps	40.9
149	5745	802.11ac (HT20)	86.7 Mbps	20.1
157	5785		86.7 Mbps	20.1
165	5825		86.7 Mbps	20.2
151	5755	802.11ac (HT40)	200 Mbps	40.7
159	5795		200 Mbps	40.7
155	5775	802.11ac (HT80)	433.3 Mbps	75.8

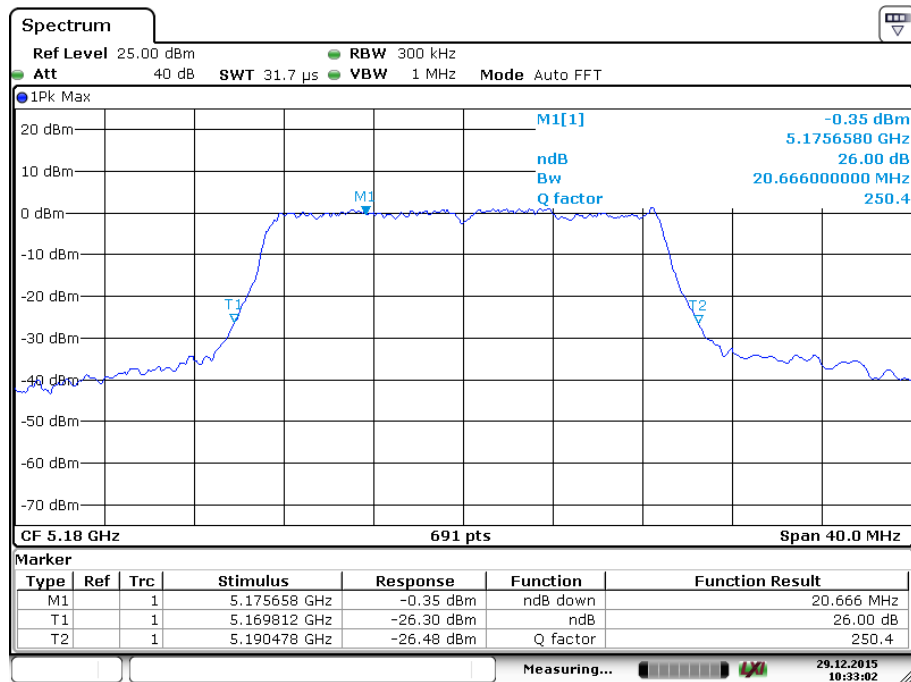
Test result: The unit does meet the FCC requirements.

Result plot as follows:

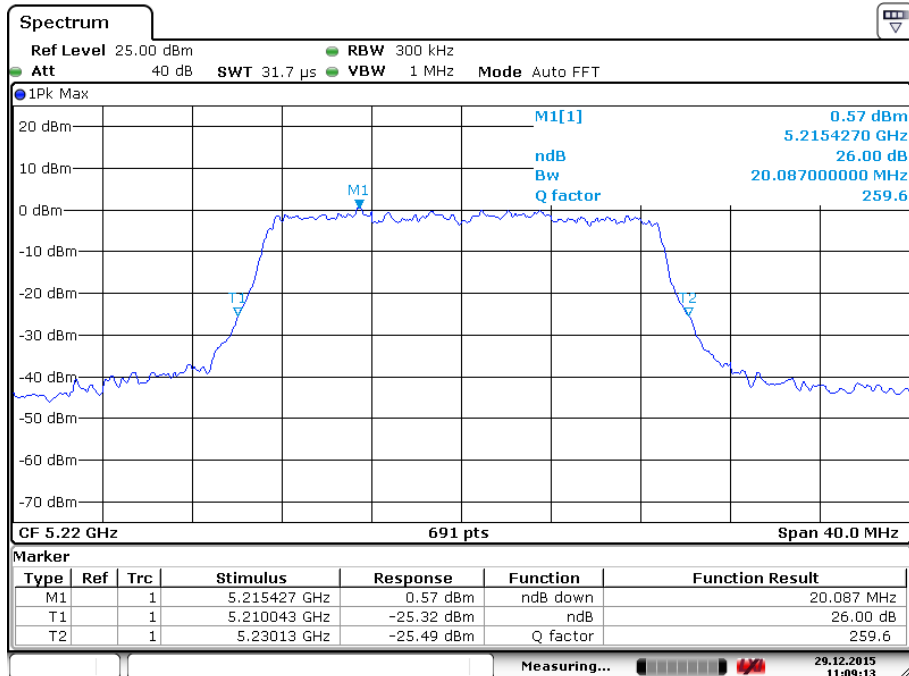
Band I 5150 MHz to 5250 MHz

802.11an(HT 20)

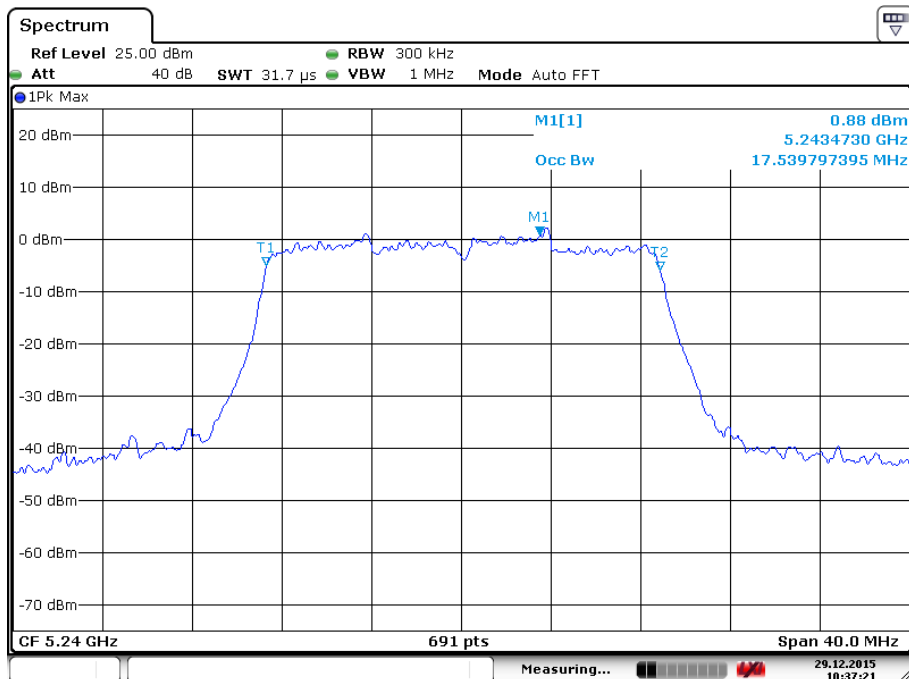
Channel 36: 5180 MHz:



Channel 44: 5220 MHz:

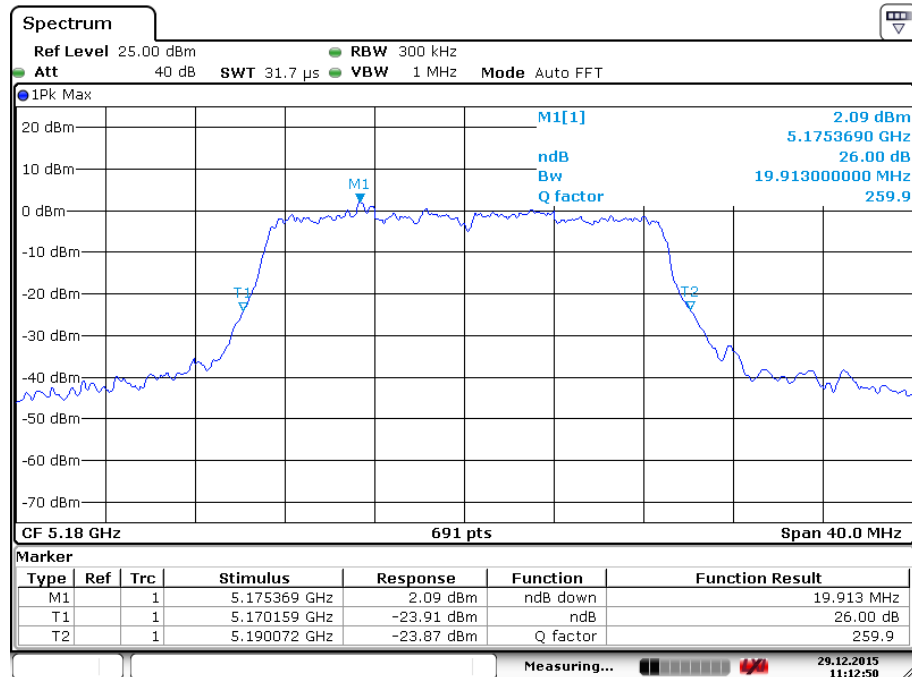


Channel 48: 5240 MHz:

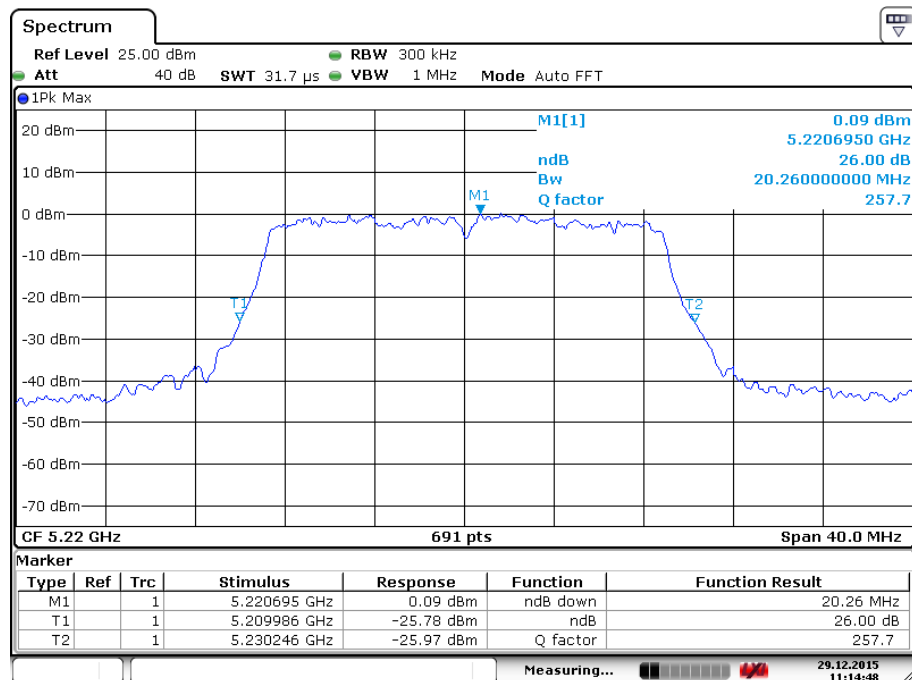


802.11ac(HT 20)

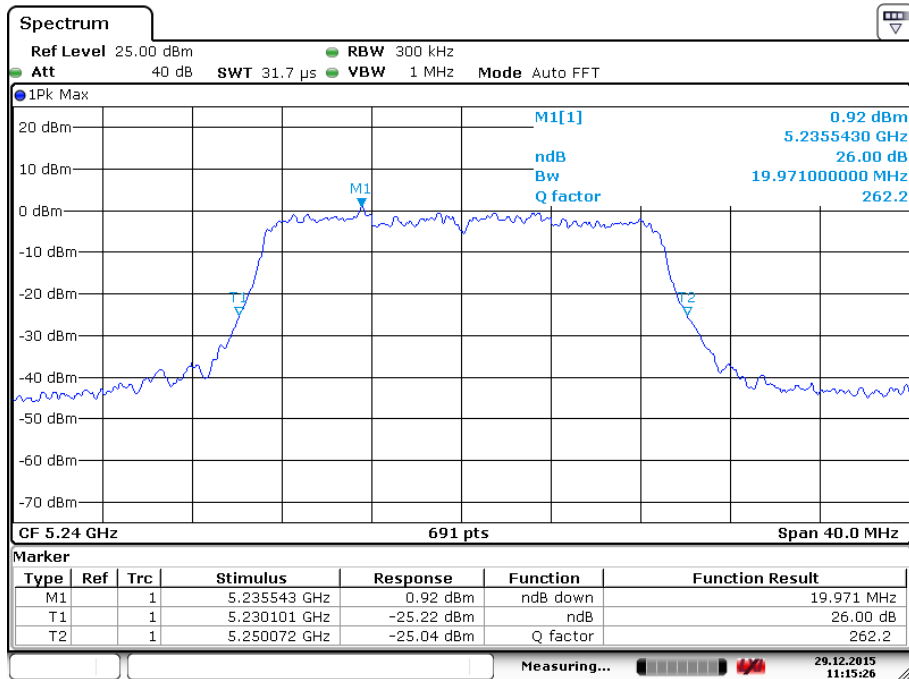
Channel 36: 5180 MHz:



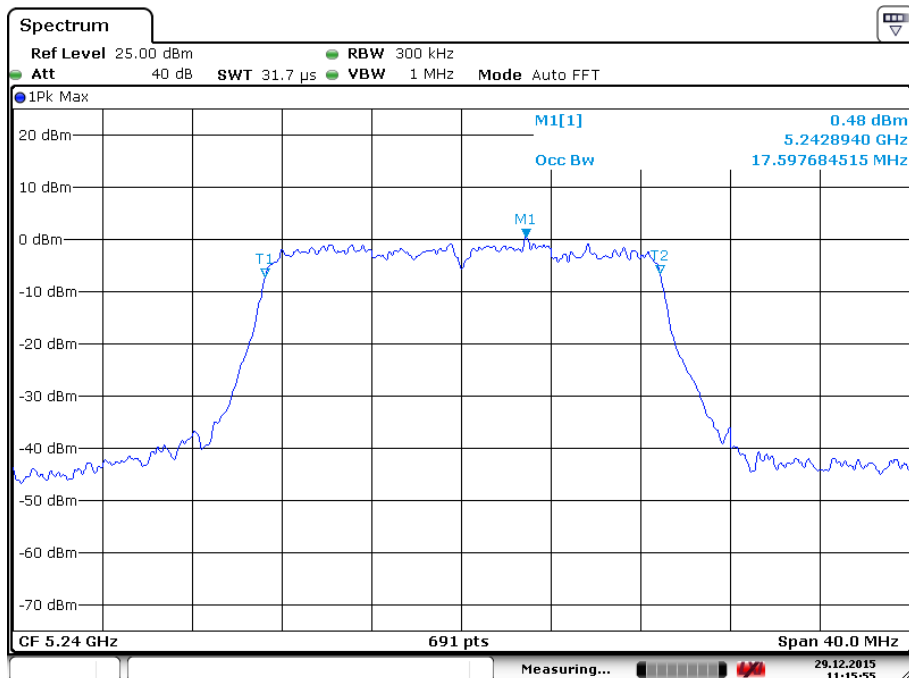
Channel 44: 5220 MHz:



Channel 48: 5240 MHz:

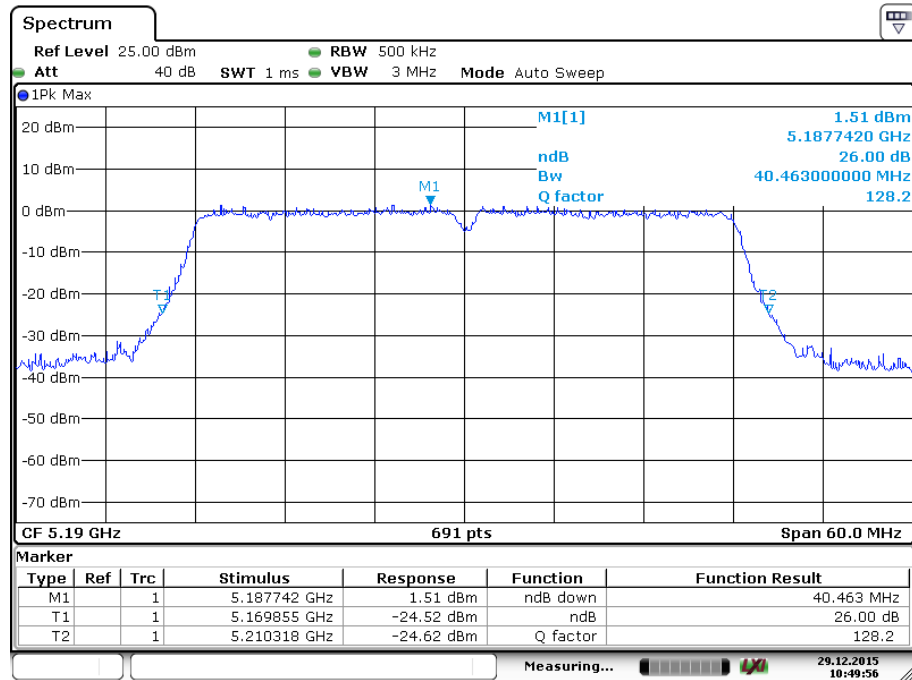


99% OBW

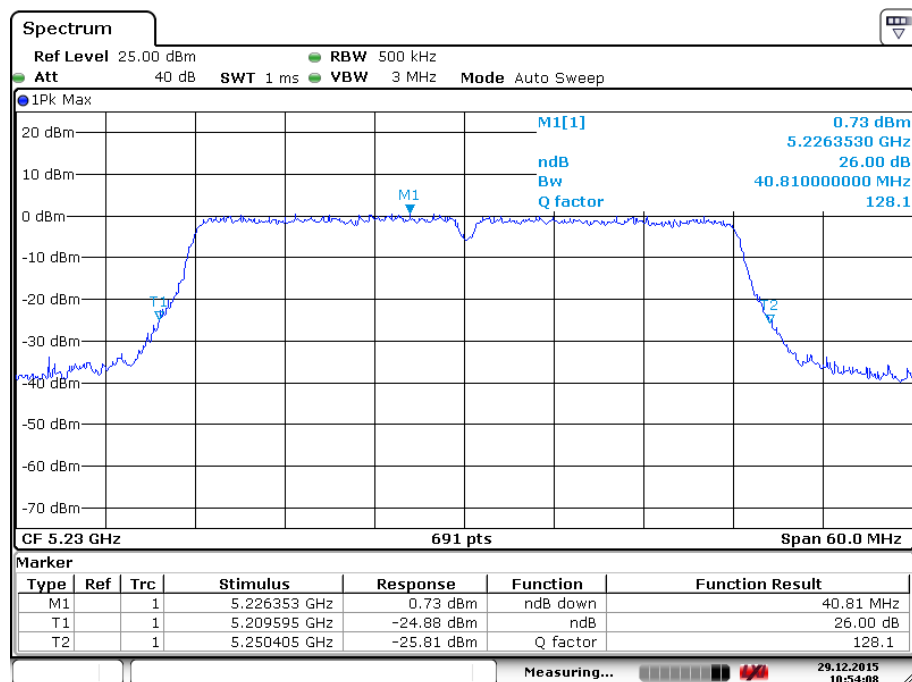


802.11an(HT 40)

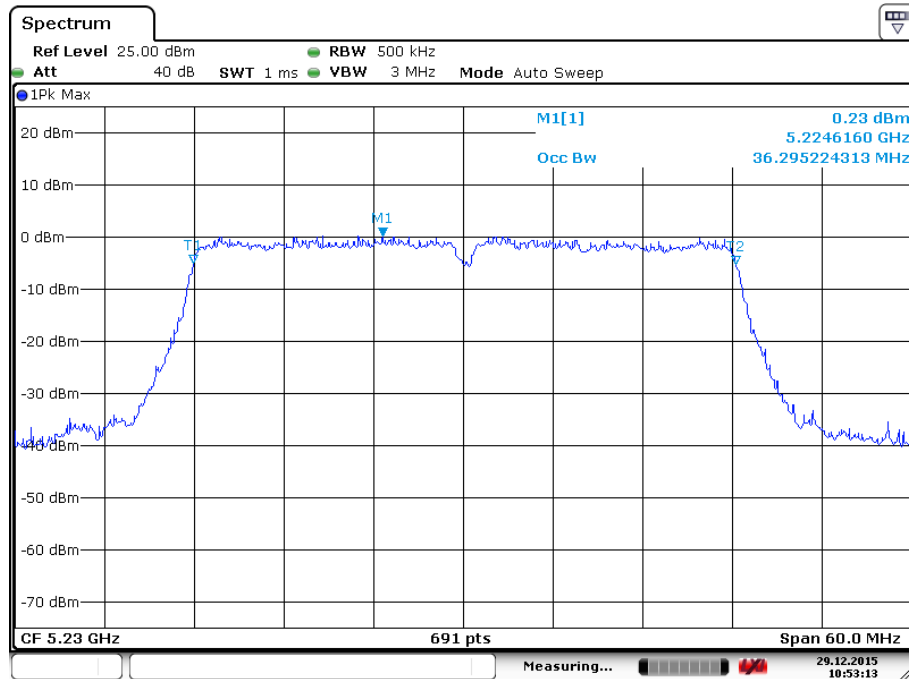
Channel 38: 5190 MHz:



Channel 46: 5230 MHz:

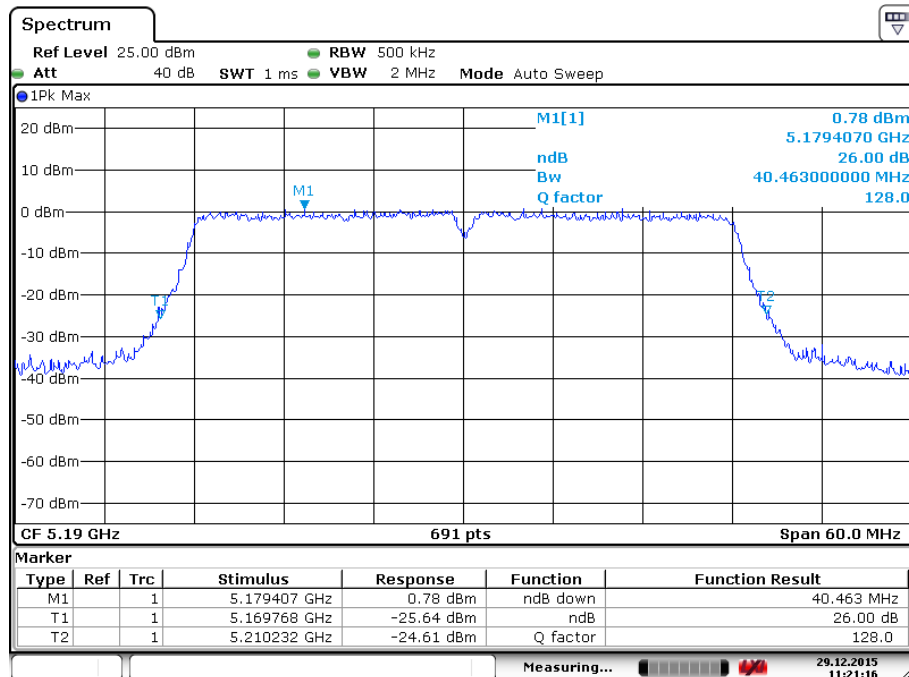


99% OBW

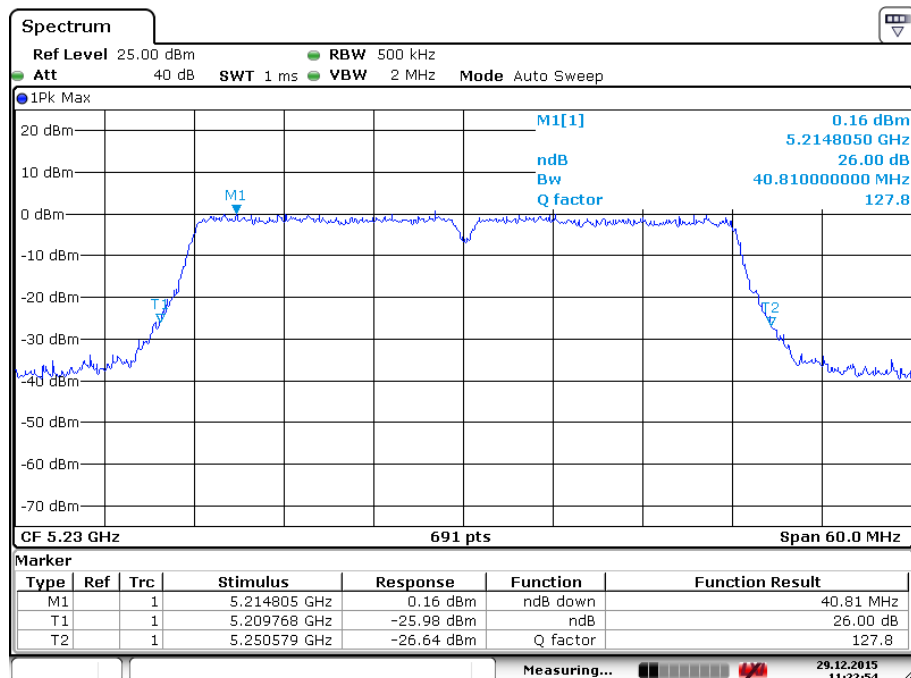


802.11ac(HT 40)

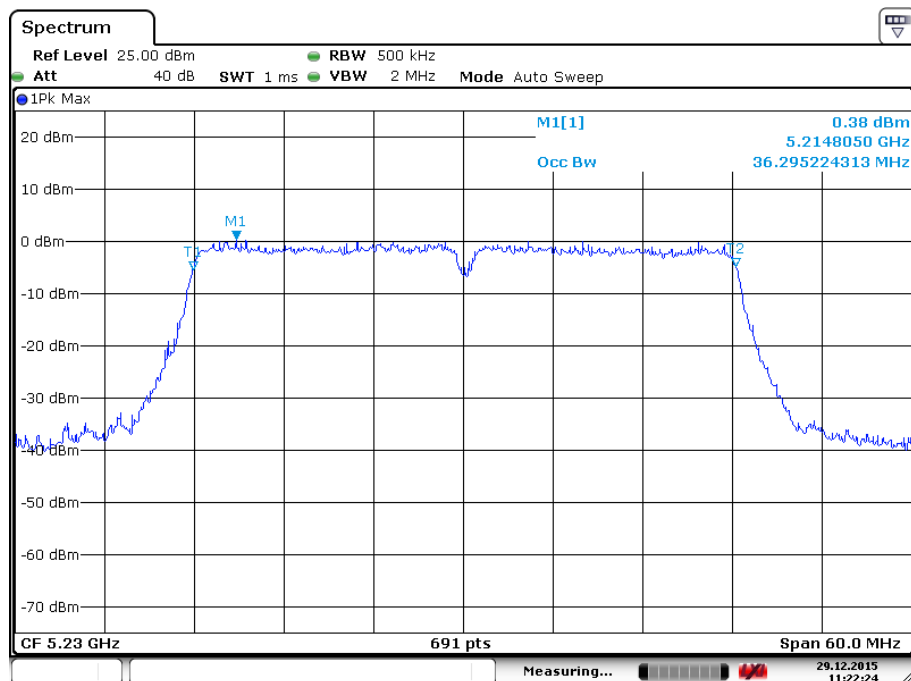
Channel 38: 5190 MHz:



Channel 46: 5230 MHz:

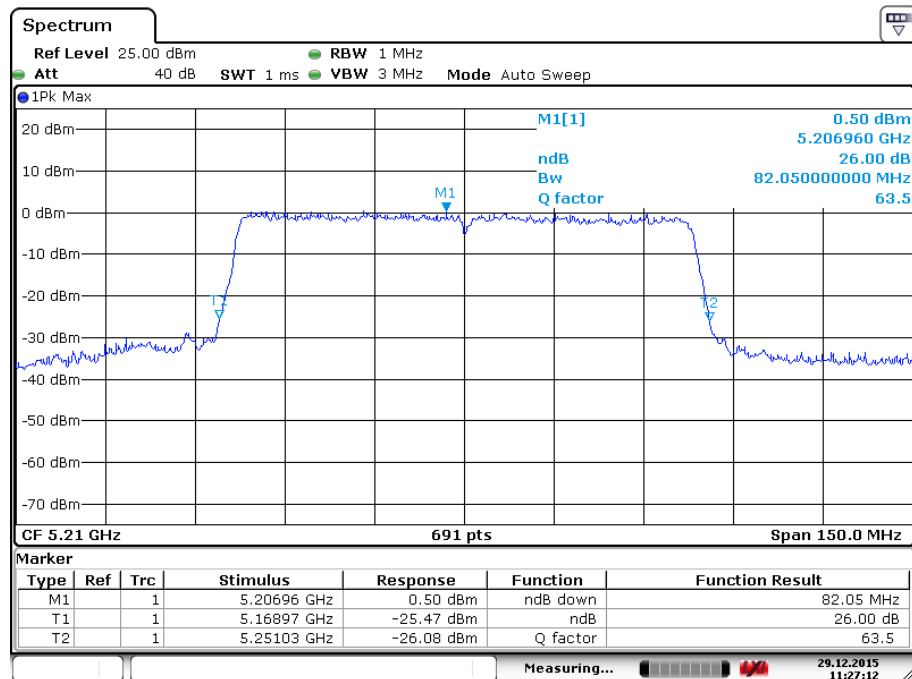


99% OBW



802.11ac(HT 80)

Channel 42: 5210 MHz:

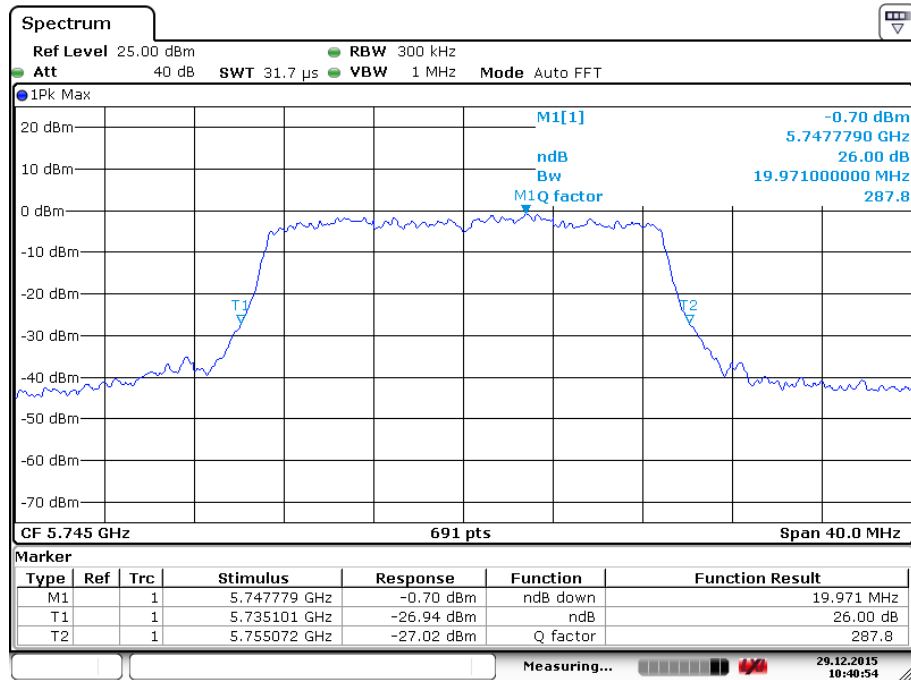


Result plot as follows:

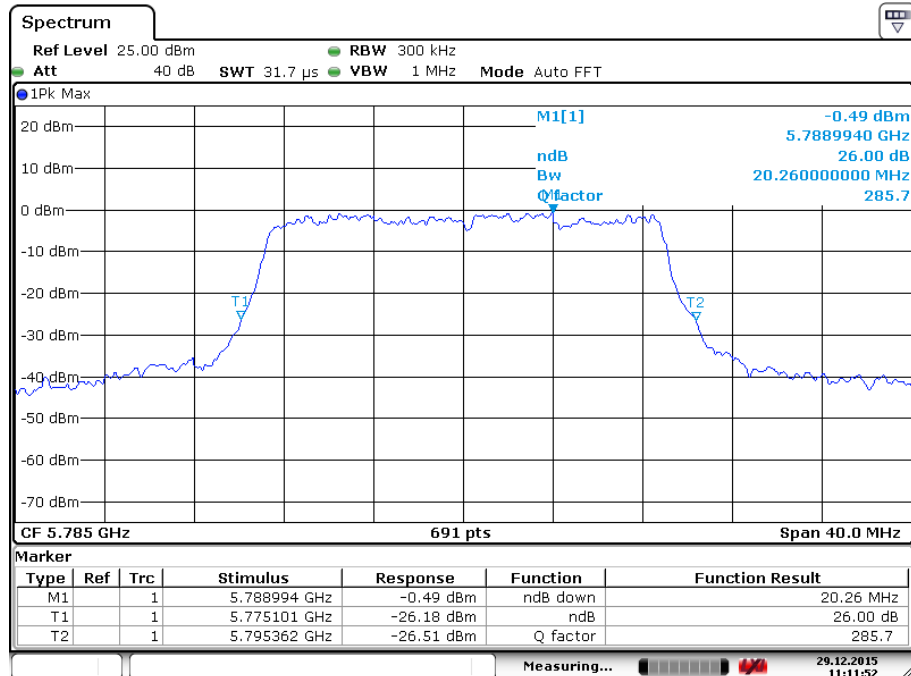
Band IV 5725 MHz to 5850 MHz

802.11an(HT 20)

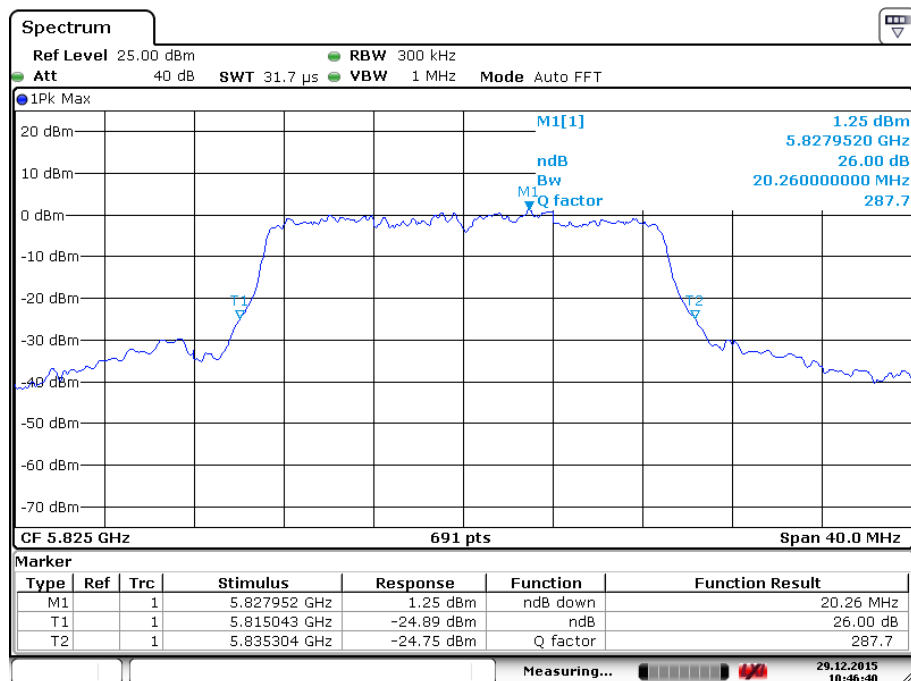
Channel 149: 5745 MHz:



Channel 157: 5785 MHz:

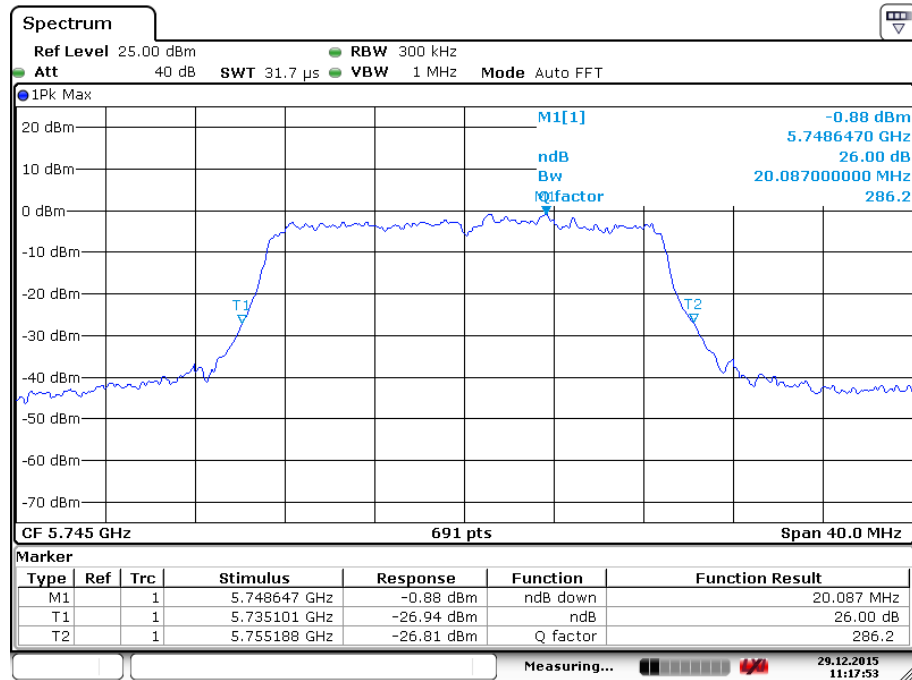


Channel 165: 5825 MHz:

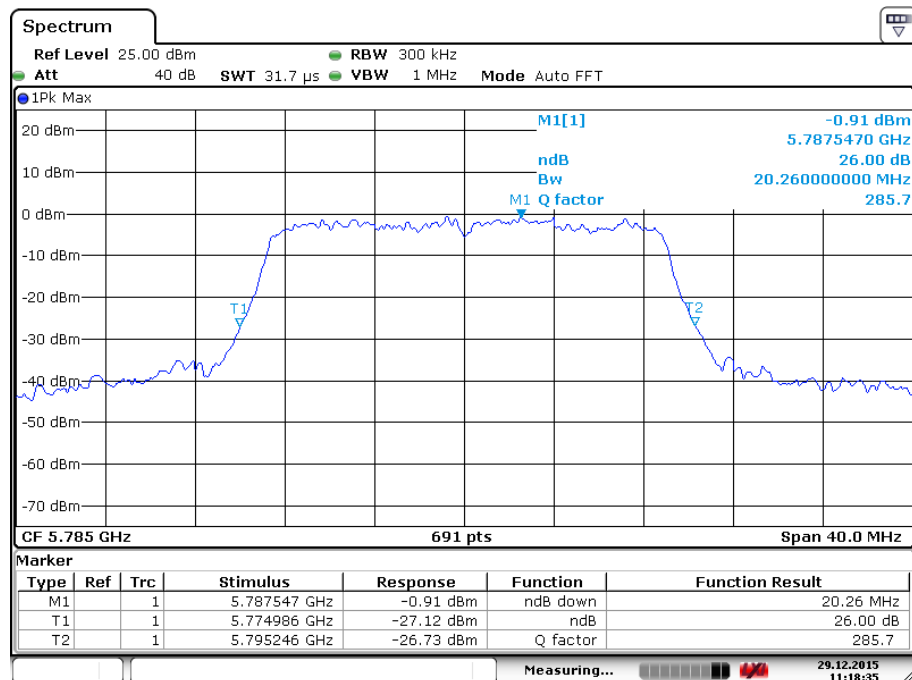


802.11ac(HT 20)

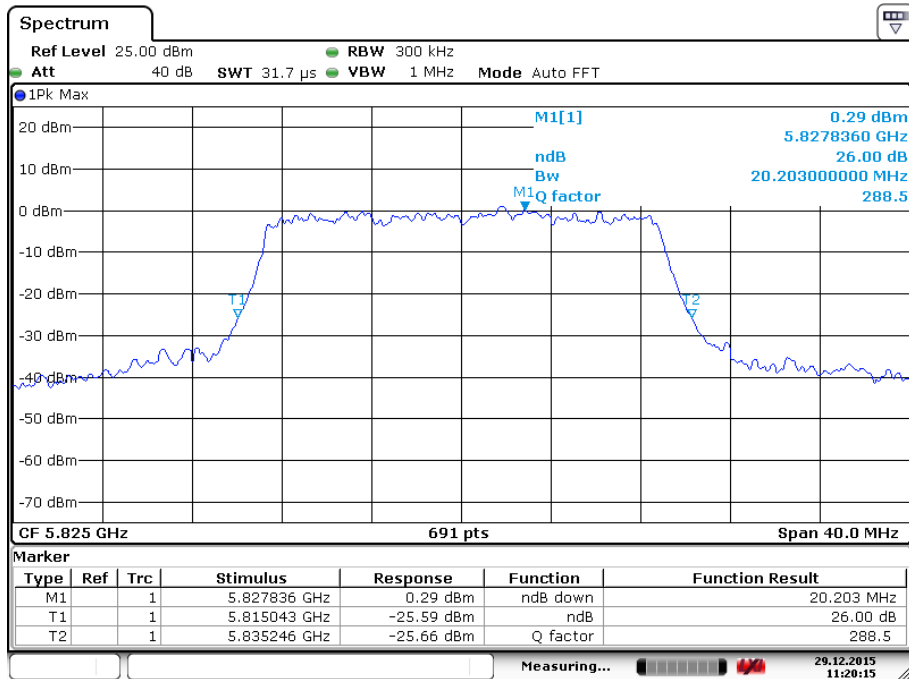
Channel 149: 5745 MHz:



Channel 157: 5785 MHz:

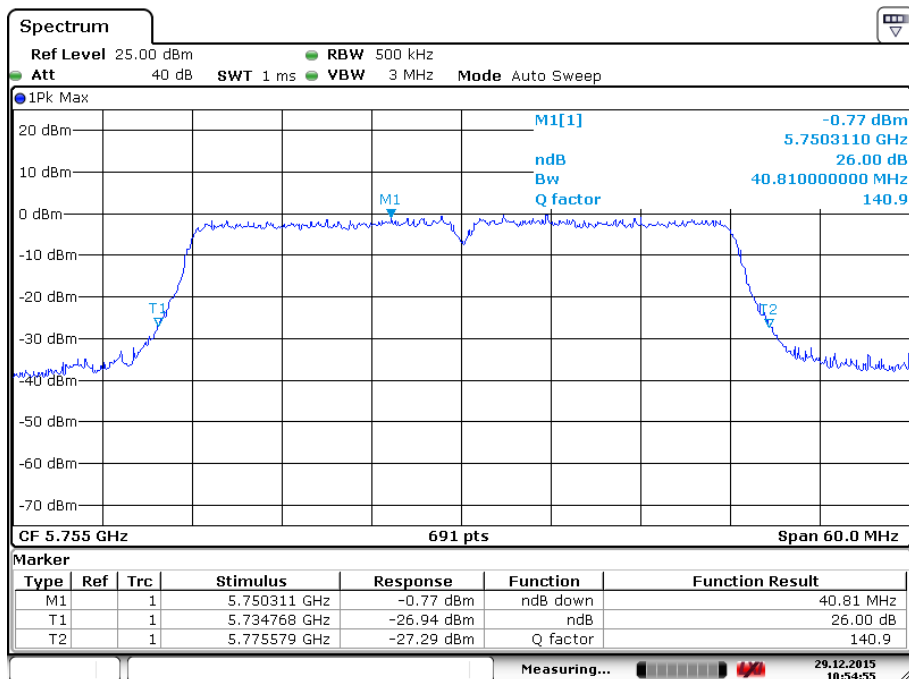


Channel 165: 5825 MHz:

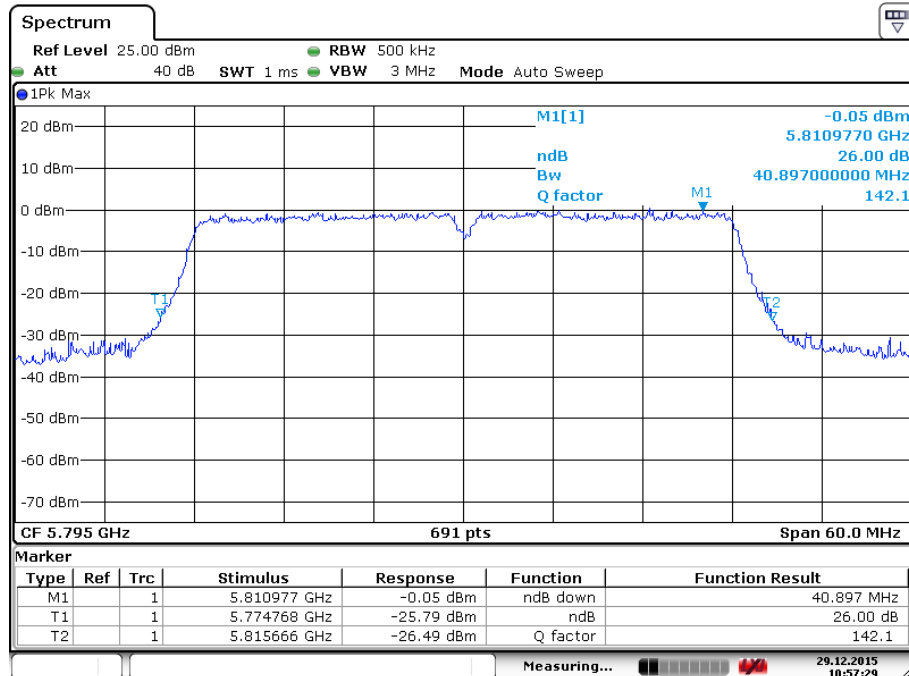


802.11an(HT 40)

Channel 151: 5755 MHz:

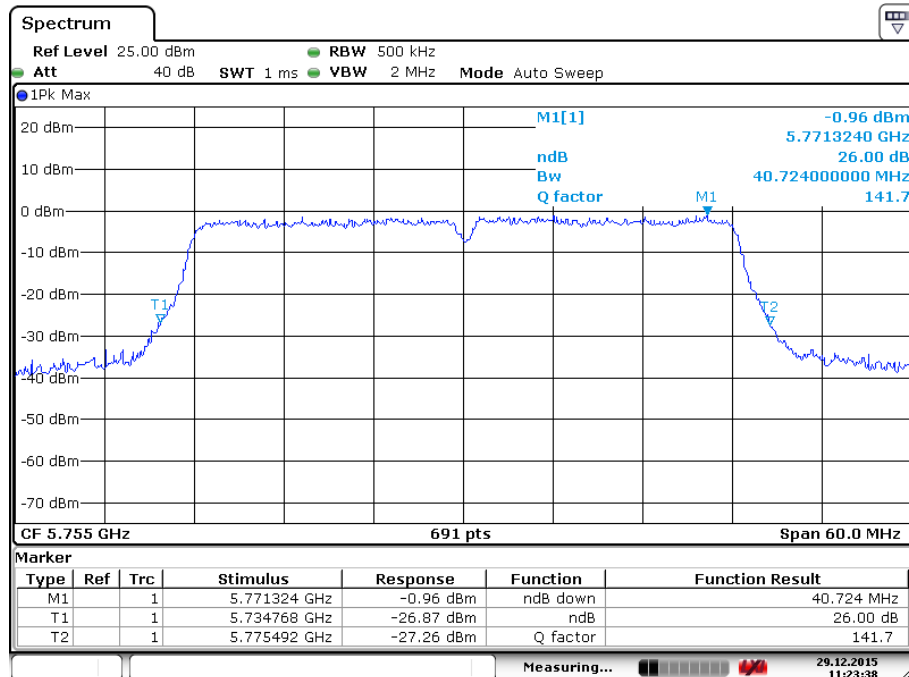


Channel 159: 5795 MHz:

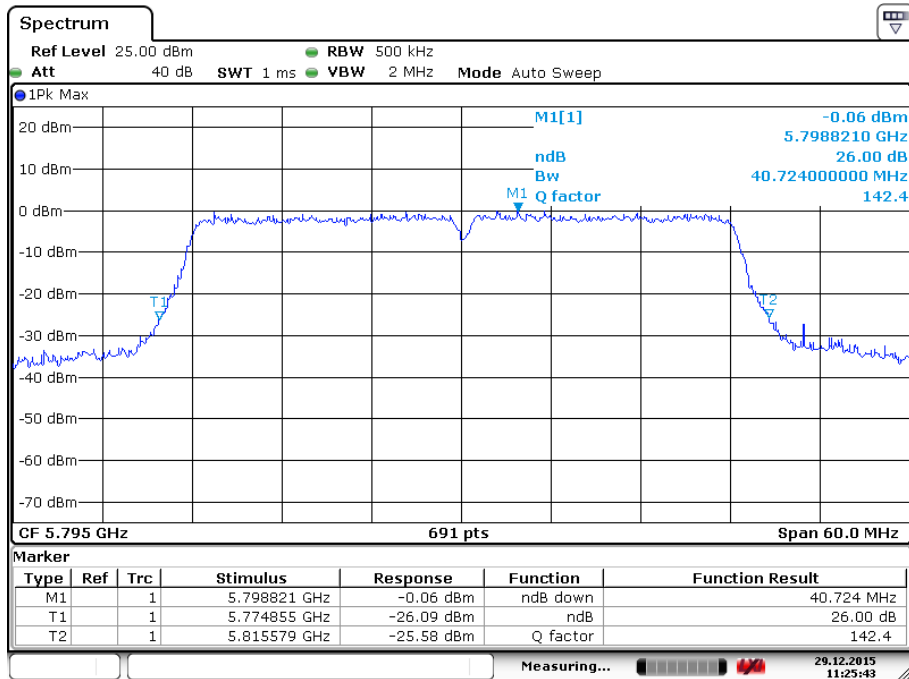


802.11ac(HT 40)

Channel 151: 5755 MHz:

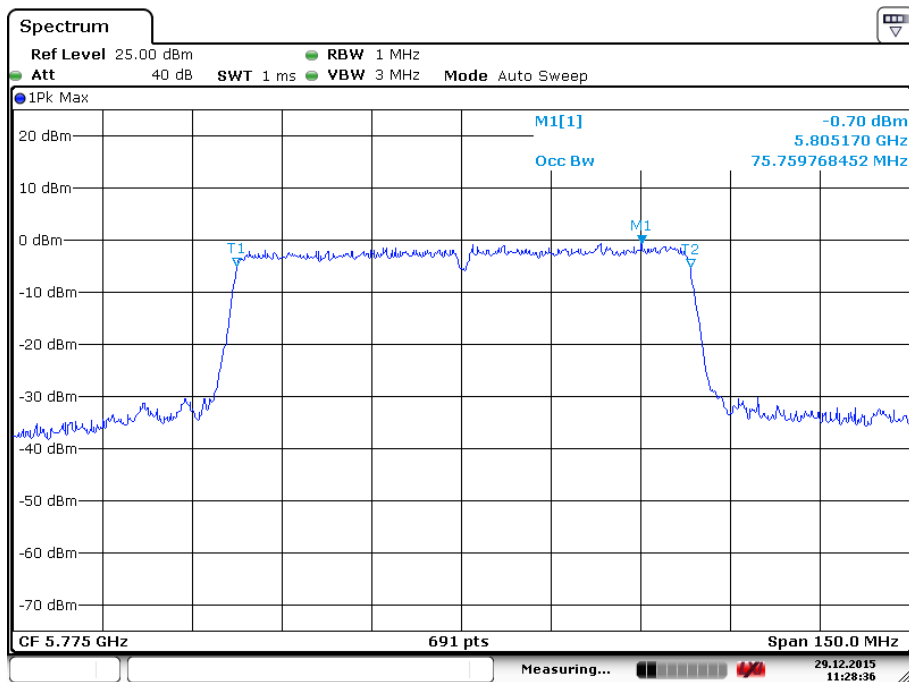


Channel 159: 5795 MHz:



802.11ac(HT 80)

Channel 155: 5775 MHz:



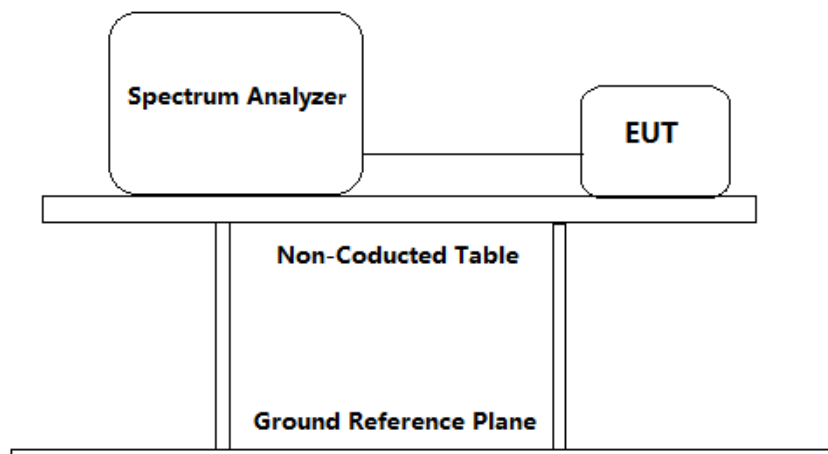
4.2 6 dB Bandwidth:

Test Requirement: FCC PART 15 C clause 15.407(e)
Within the 5.725–5.85 GHz band the minimum 6 dB bandwidth of U–NII devices shall be at least 500 kHz.

Test Method: FCC KDB 789033 D02 General UNII Test Procedures New Rules v01, Clause C

Test Status: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

5. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss =2 dB) from the antenna port to the spectrum.
6. Set the spectrum analyzer:
 - a) Set RBW = 100 kHz
 - b) Set the VBW $\geq [3 \times \text{RBW}]$
 - c) Detector = peak.
 - d) Trace mode = max hold.
 - e) Sweep = auto couple
 - f) Allow the trace to stabilize.
 - g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
 - h) Span=2*BW~5*BW

7. Repeat until all the test status is investigated.

8. Report the worst case.

Channel No.	Frequency (MHz)	Mode	Data Rate	6dB bandwidth (MHz)	Limit	Result
149	5745	802.11an (HT20)	72.2 Mbps	17.7	500kHz	Pass
157	5785		72.2 Mbps	17.7		Pass
165	5825		72.2 Mbps	17.7		Pass
151	5755	802.11an (HT40)	150 Mbps	36.5		Pass
159	5795		150 Mbps	36.6		Pass
149	5745	802.11ac (HT20)	86.7 Mbps	17.7		Pass
157	5785		86.7 Mbps	17.7		Pass
165	5825		86.7 Mbps	17.7		Pass
151	5755	802.11ac (HT40)	200 Mbps	36.6		Pass
159	5795		200 Mbps	36.6		Pass
155	5775	802.11ac (HT80)	433.3 Mbps	76.2		Pass

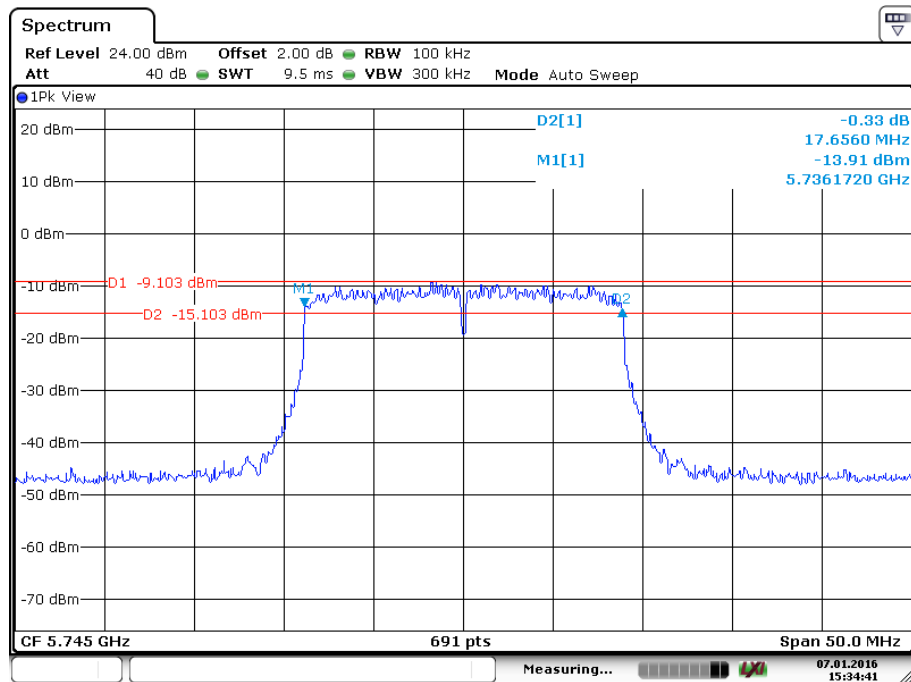
Test result: The unit does meet the FCC requirements.

Result plot as follows:

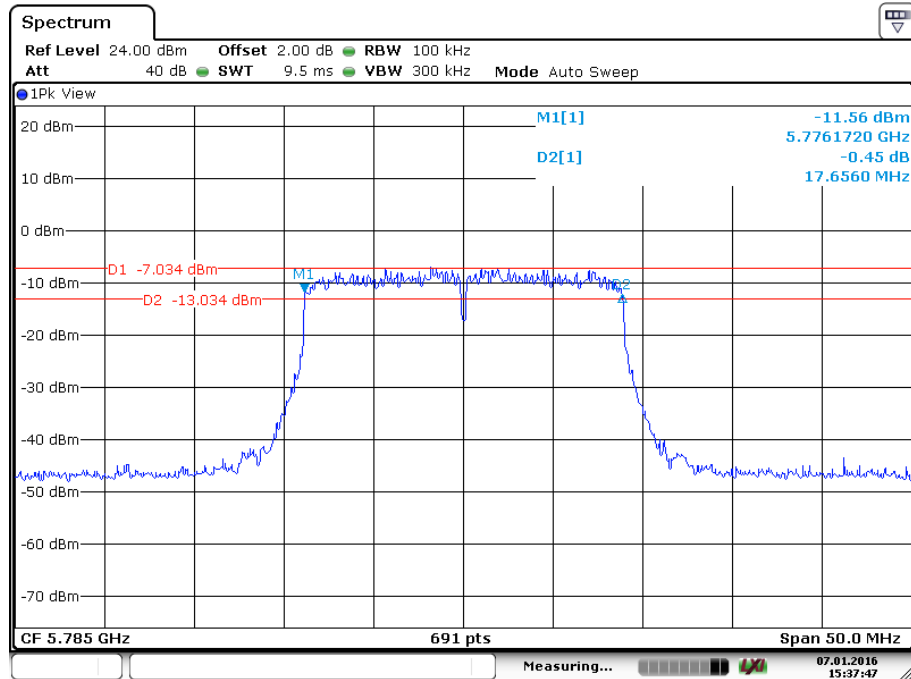
Band IV 5725 MHz to 5850 MHz

802.11an(HT 20)

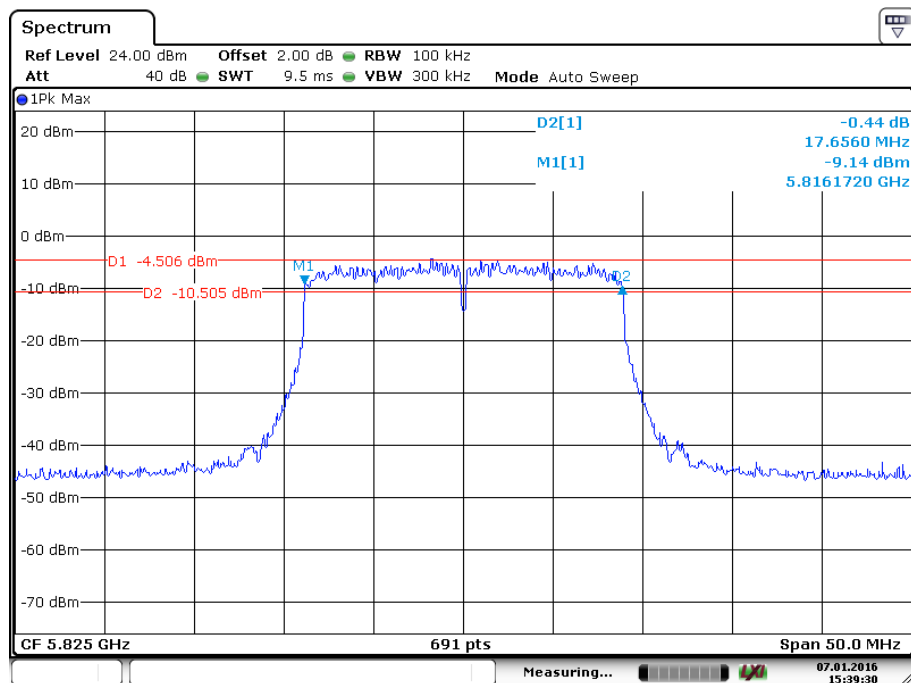
Channel 149: 5745 MHz:



Channel 157: 5785 MHz:

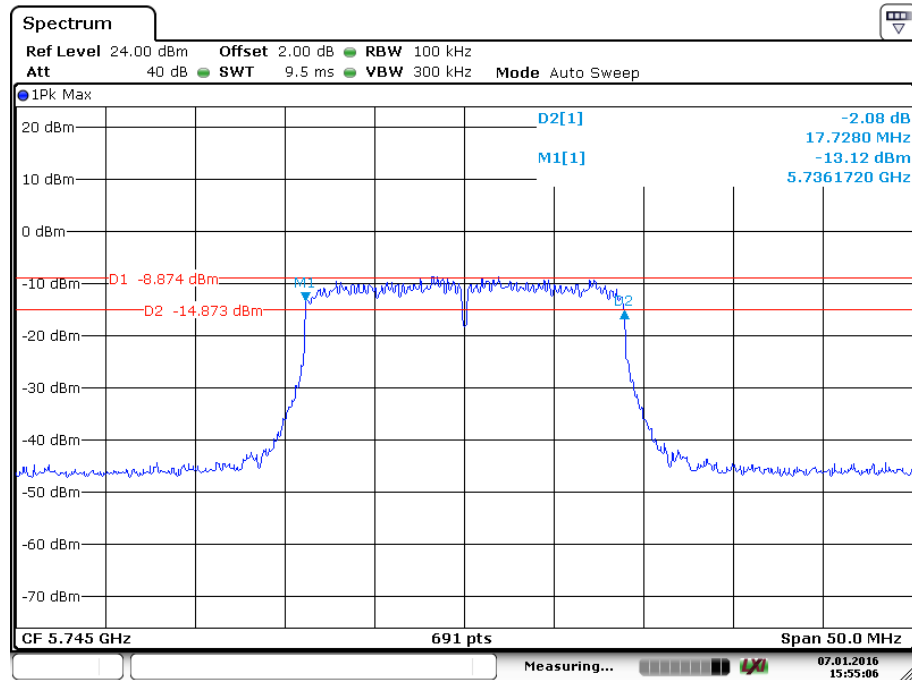


Channel 165: 5825 MHz:

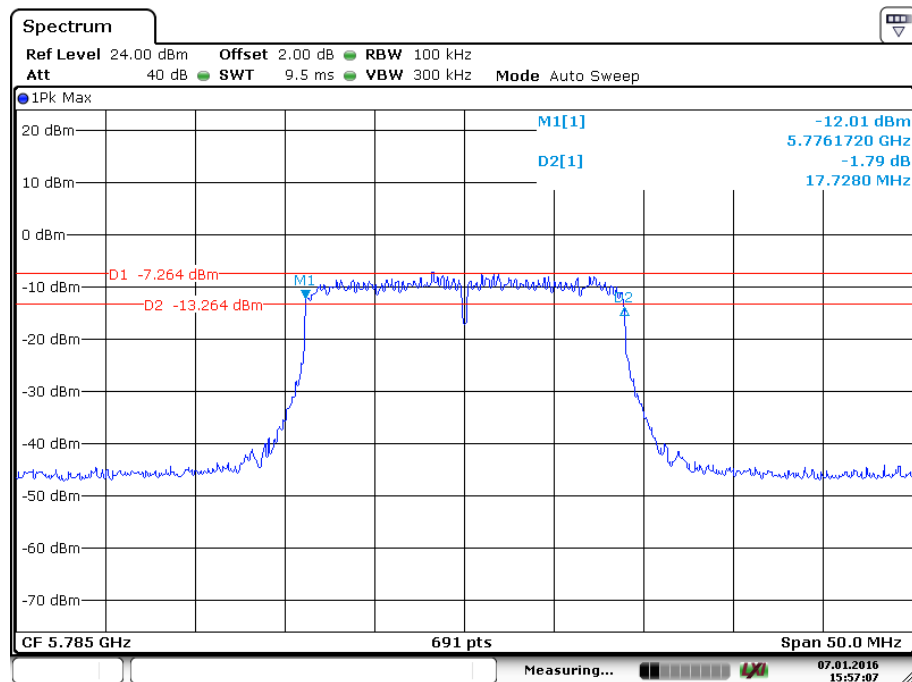


802.11ac(HT 20)

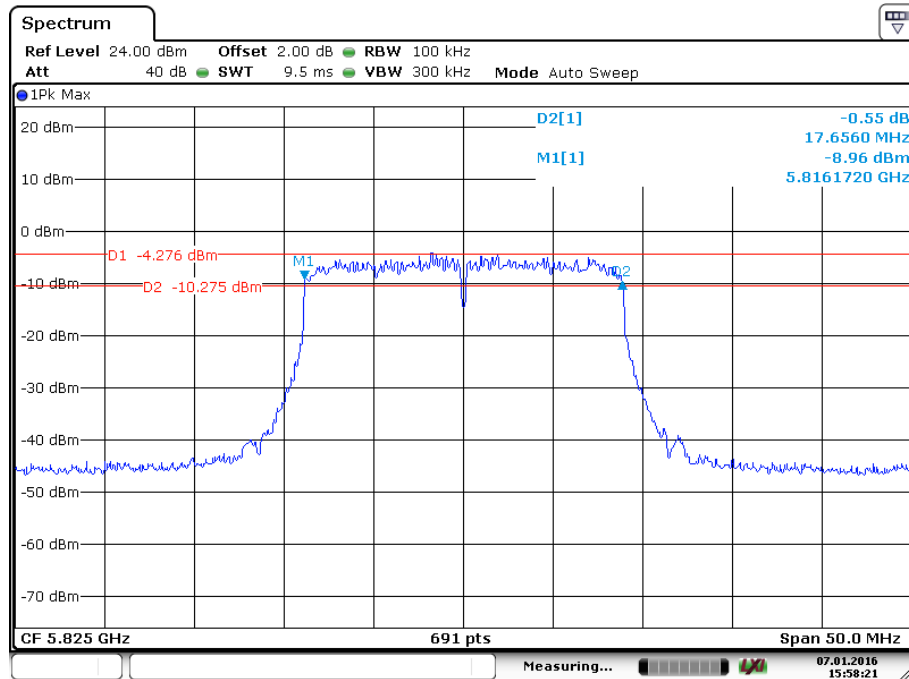
Channel 149: 5745 MHz:



Channel 157: 5785 MHz:

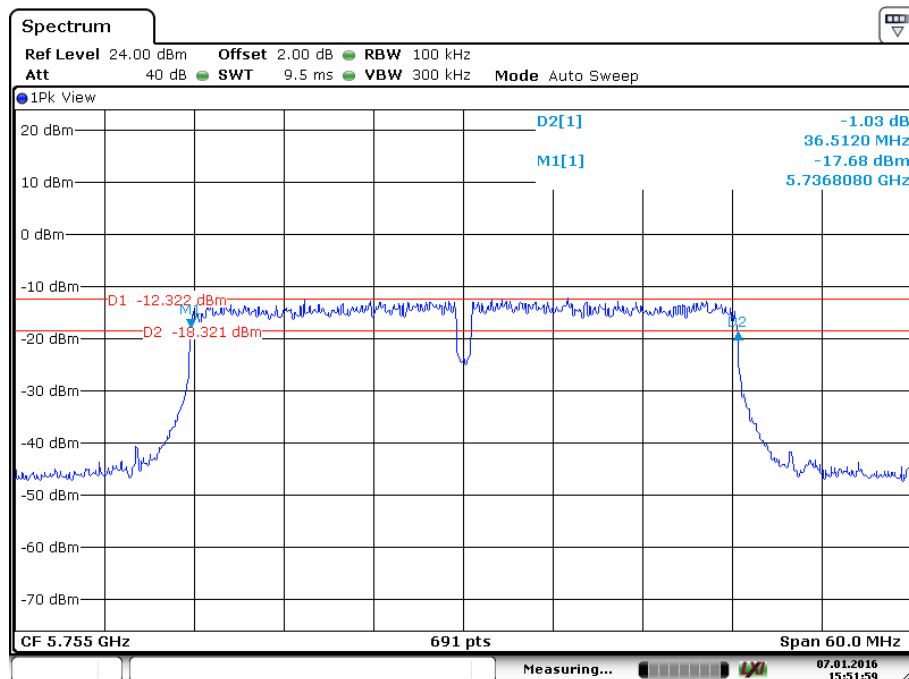


Channel 165: 5825 MHz:

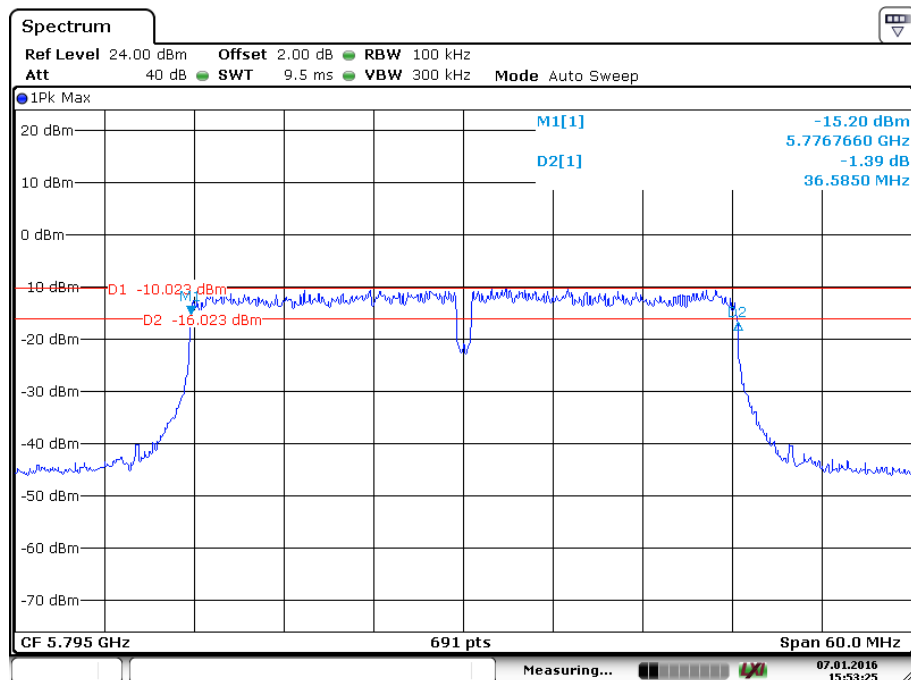


802.11an(HT 40)

Channel 151: 5755 MHz:

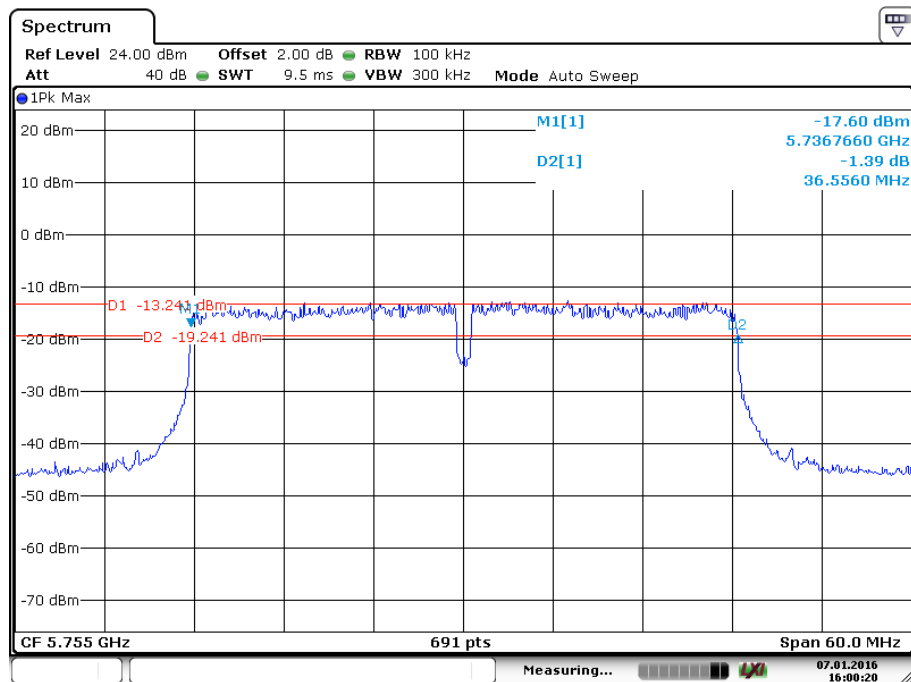


Channel 159: 5795 MHz:

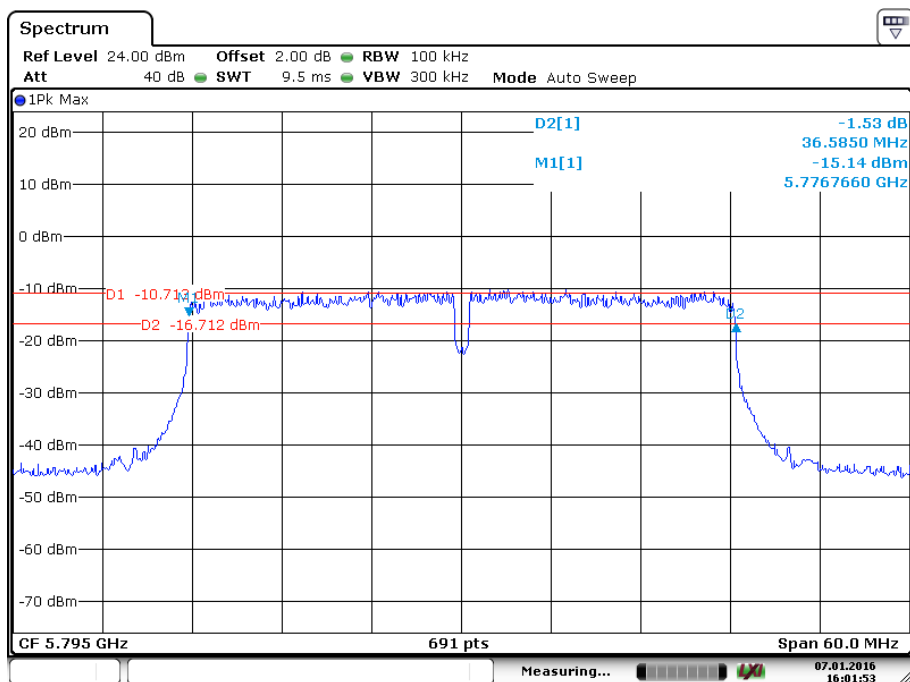


802.11ac(HT 40)

Channel 151: 5755 MHz:

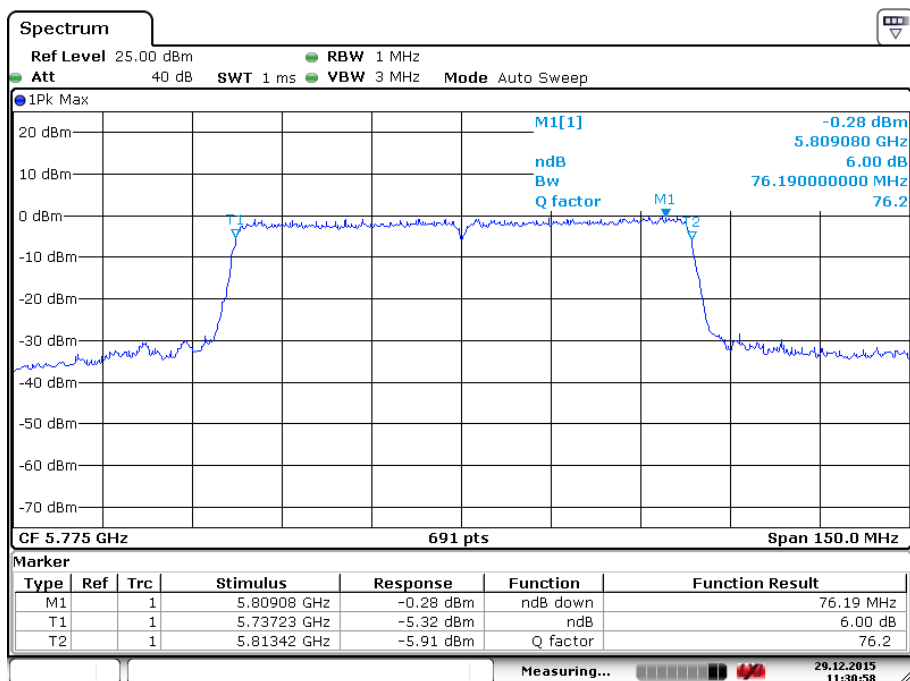


Channel 159: 5795 MHz:



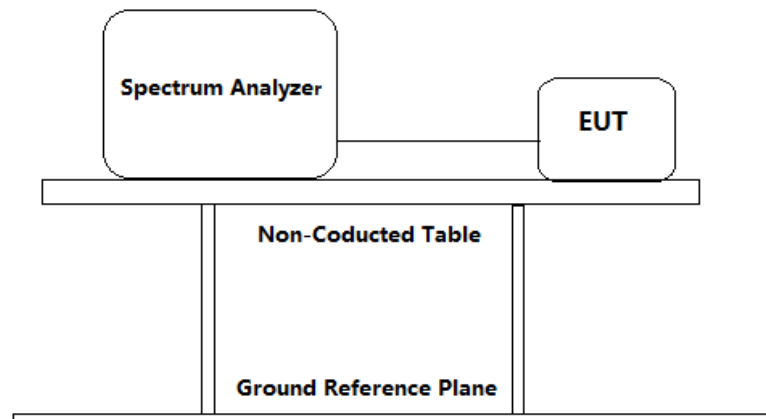
802.11ac(HT 80)

Channel 155: 5775 MHz:



4.3 Maximum Conducted Output Power

Test Requirement:	FCC Part 15 C clause 15.407(a)
Test Method:	FCC KDB 789033 D02 General UNII Test Procedures New Rules v01, Clause E
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	



Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss =2 dB) from the antenna port to the spectrum.
2. Set the spectrum analyzer:
 - a) Set the RBW = 1 MHz.
 - b) Set the VBW $\geq [3 \times \text{RBW}]$.
 - c) Set the span ≥ 26 dB Bandwidth
 - d) Detector = RMS
 - e) Sweep time = auto couple.
 - f) Trace mode = max hold.
 - g) Allow trace to fully stabilize.
 - h) Use the instrument's band/channel power measurement function with the band limits set equal to the 26 dB Bandwidth.
3. Repeat until all the test status is investigated.
4. Report the worst case.

Test result:
Band I (5150MHz-5250MHz)

Channel No.	Frequency (MHz)	Mode	Data Rate	Maximum Conducted output power (dBm)	Limit dBm	Result
36	5180	802.11an (HT20)	72.2 Mbps	15.5	30	Pass
44	5220		72.2 Mbps	14.8		Pass
48	5240		72.2 Mbps	16.9		Pass
38	5190	802.11an (HT40)	150 Mbps	15.3		Pass
46	5230		150 Mbps	14.5		Pass
36	5180	802.11ac (HT20)	86.7 Mbps	14.6		Pass
44	5220		86.7 Mbps	14.8		Pass
48	5240		86.7 Mbps	14.6		Pass
38	5190	802.11ac (HT40)	200 Mbps	15.5		Pass
46	5230		200 Mbps	14.7		Pass
42	5210	802.11ac (HT80)	433.3 Mbps	14.8		Pass

Band IV (5725MHz-5850MHz)

Channel No.	Frequency (MHz)	Mode	Data Rate	Maximum Conducted output power (dBm)	Limit dBm	Result
149	5745	802.11an (HT20)	72.2 Mbps	13.4	30	Pass
157	5785		72.2 Mbps	13.9		Pass
165	5825		72.2 Mbps	14.8		Pass
151	5755	802.11an (HT40)	150 Mbps	13.4		Pass
159	5795		150 Mbps	13.9		Pass
149	5745	802.11ac (HT20)	86.7 Mbps	13.5		Pass
157	5785		86.7 Mbps	13.9		Pass
165	5825		86.7 Mbps	14.8		Pass
151	5755	802.11ac (HT40)	200 Mbps	13.3		Pass
159	5795		200 Mbps	13.9		Pass
155	5775	802.11ac (HT80)	433.3 Mbps	13.4		Pass

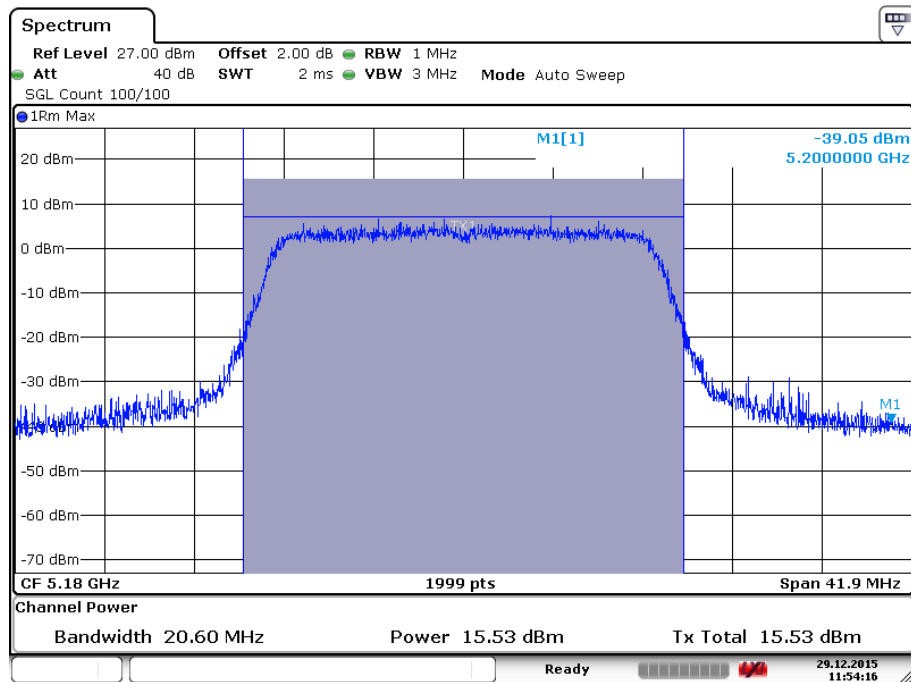
Remark: Level = Read Level + Cable Loss (2 dB).
The unit does meet the FCC requirements.

Result plot as follows:

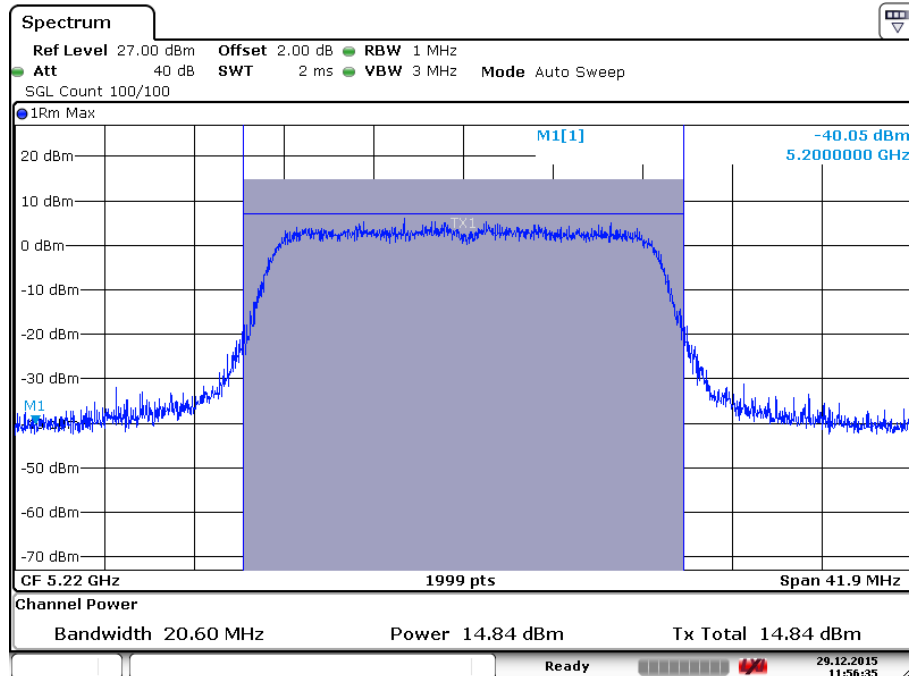
Band I 5150 MHz to 5250 MHz

802.11an(HT 20)

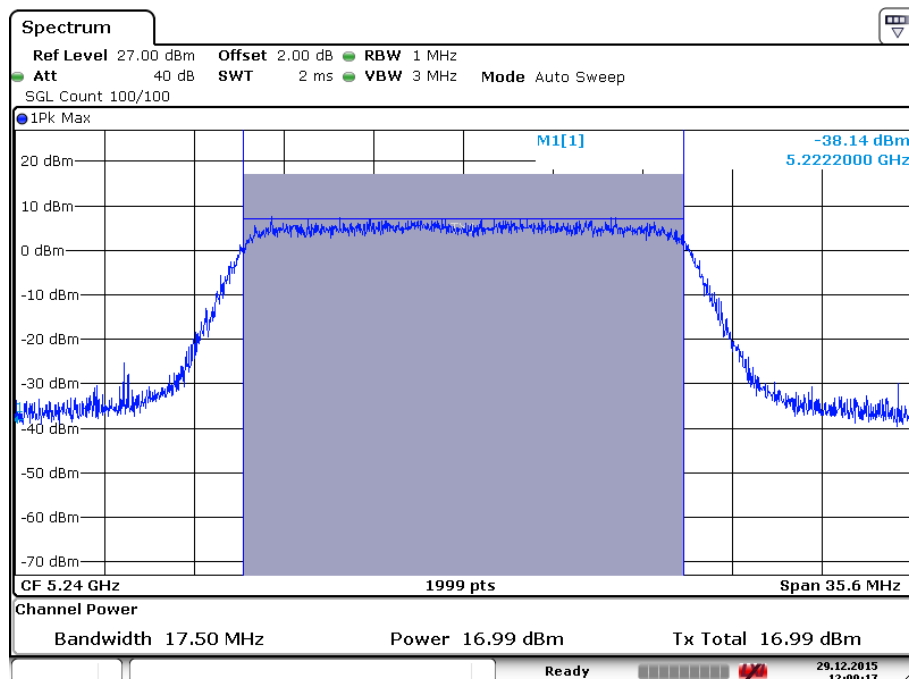
Channel 36: 5180 MHz:



Channel 44: 5220 MHz:

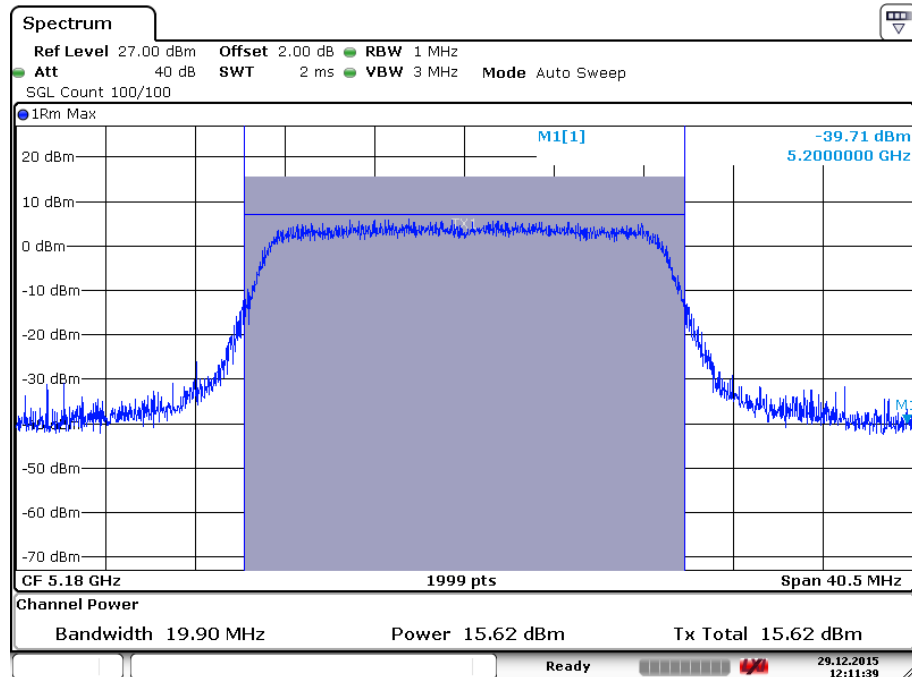


Channel 48: 5240 MHz:

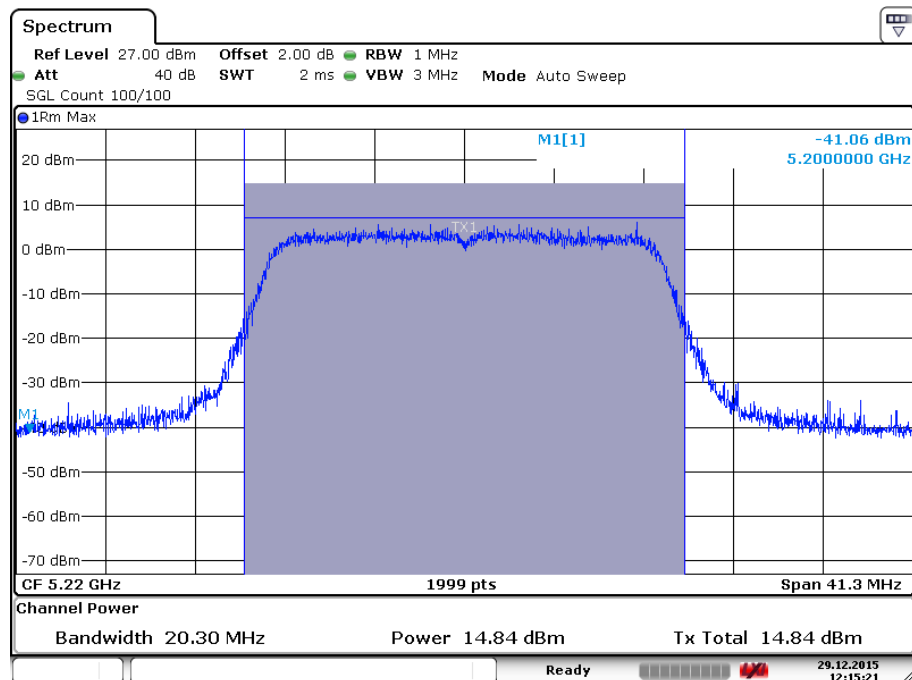


802.11ac(HT 20)

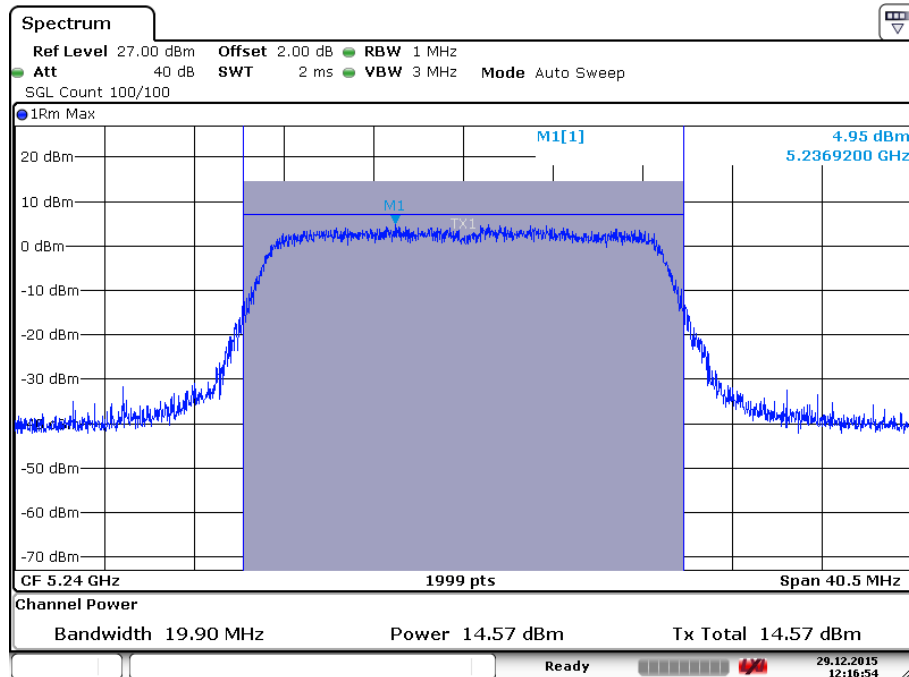
Channel 36: 5180 MHz:



Channel 44: 5220 MHz:

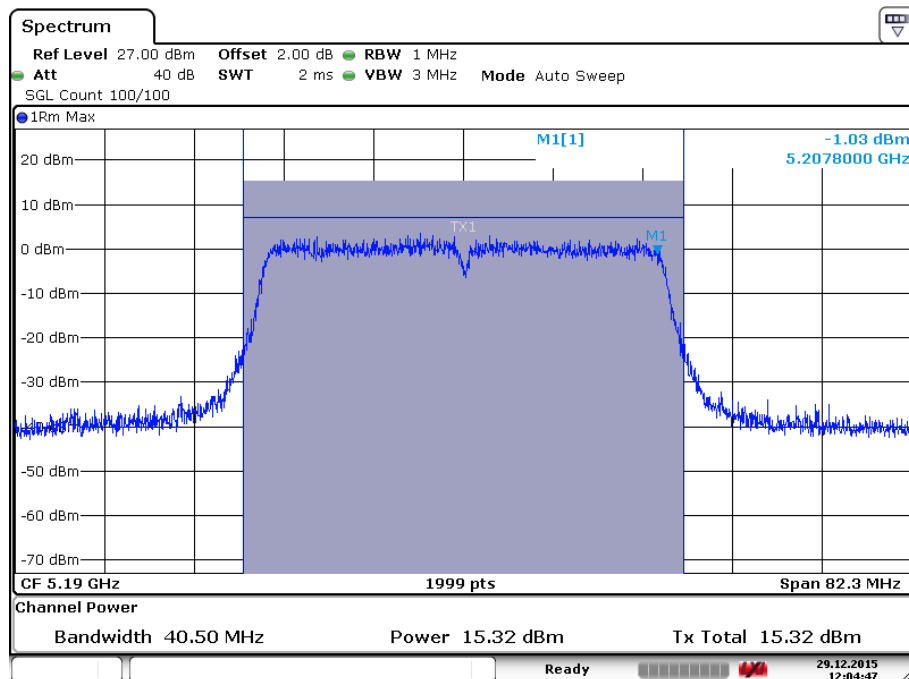


Channel 48: 5240 MHz:

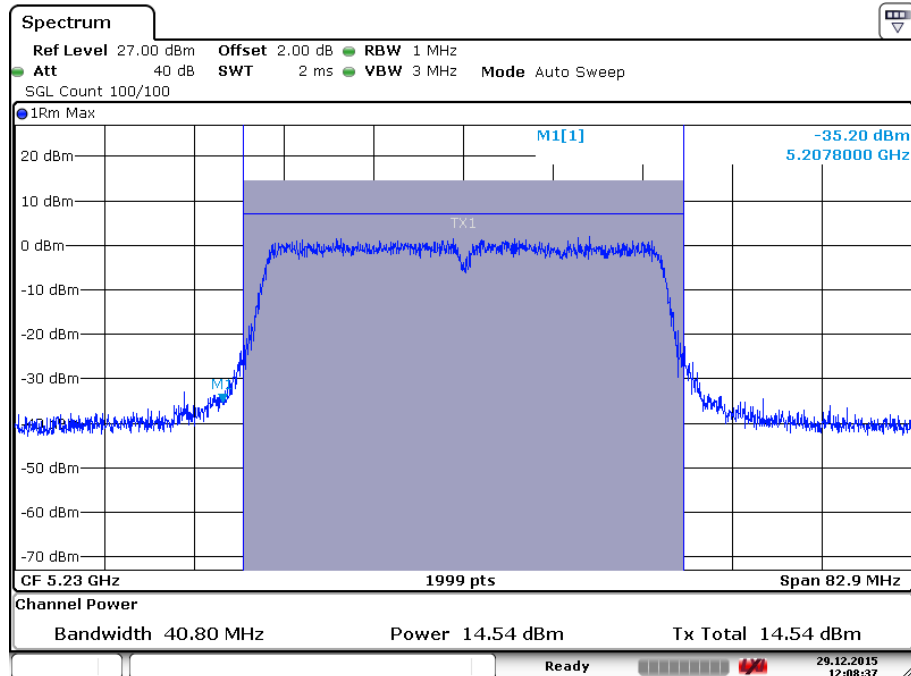


802.11an(HT 40)

Channel 38: 5190 MHz:

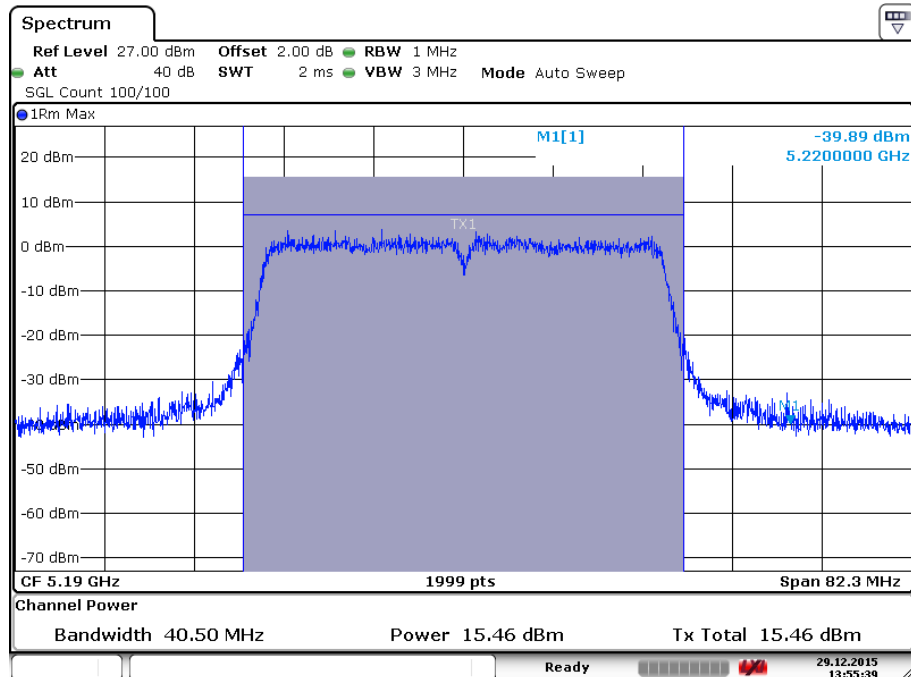


Channel 46: 5230 MHz:

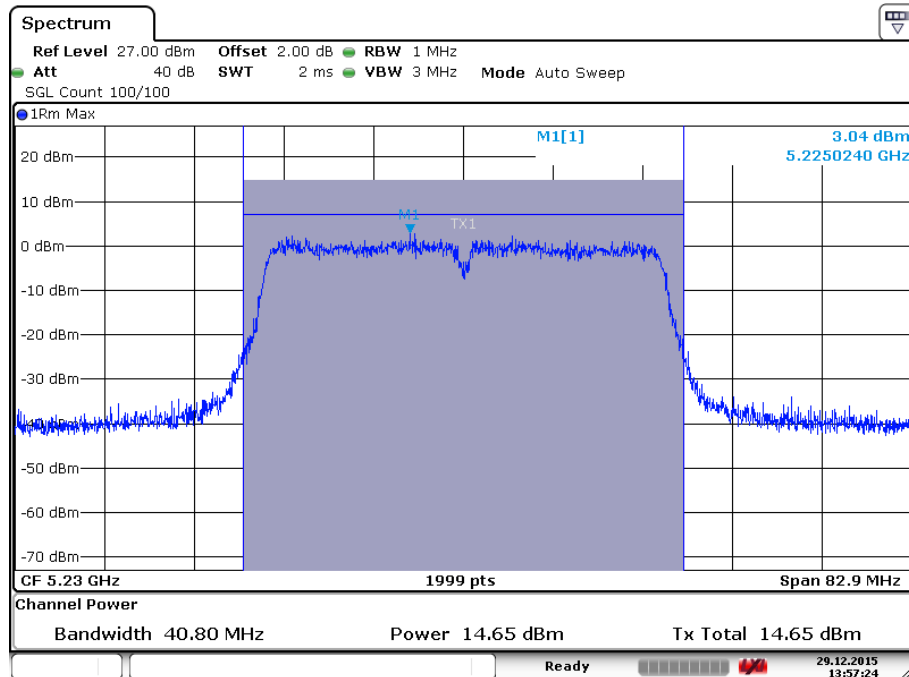


802.11ac(HT 40)

Channel 38: 5190 MHz:

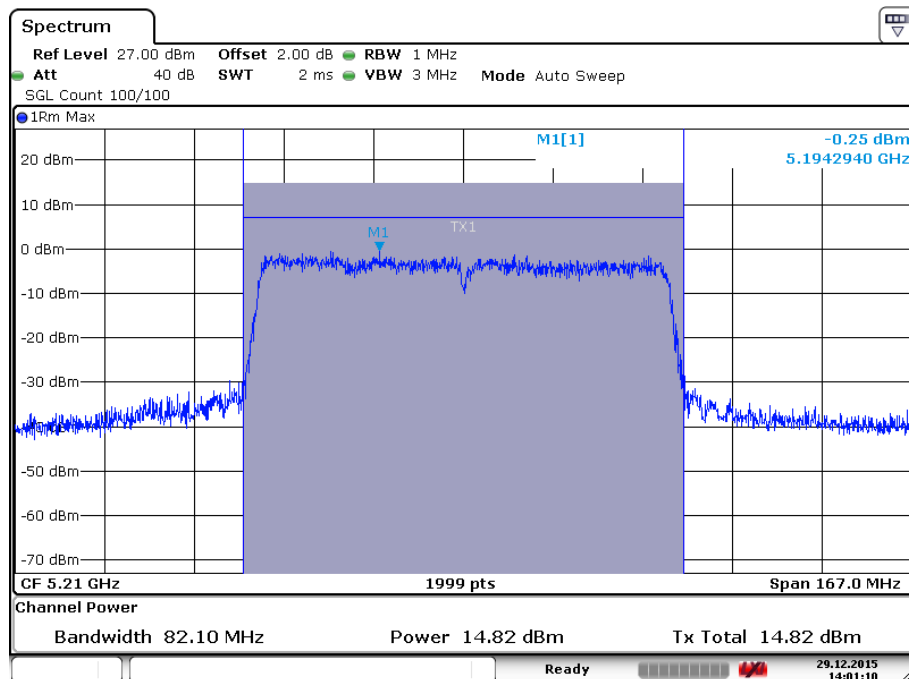


Channel 46: 5230 MHz:



802.11ac(HT 80)

Channel 42: 5210 MHz:

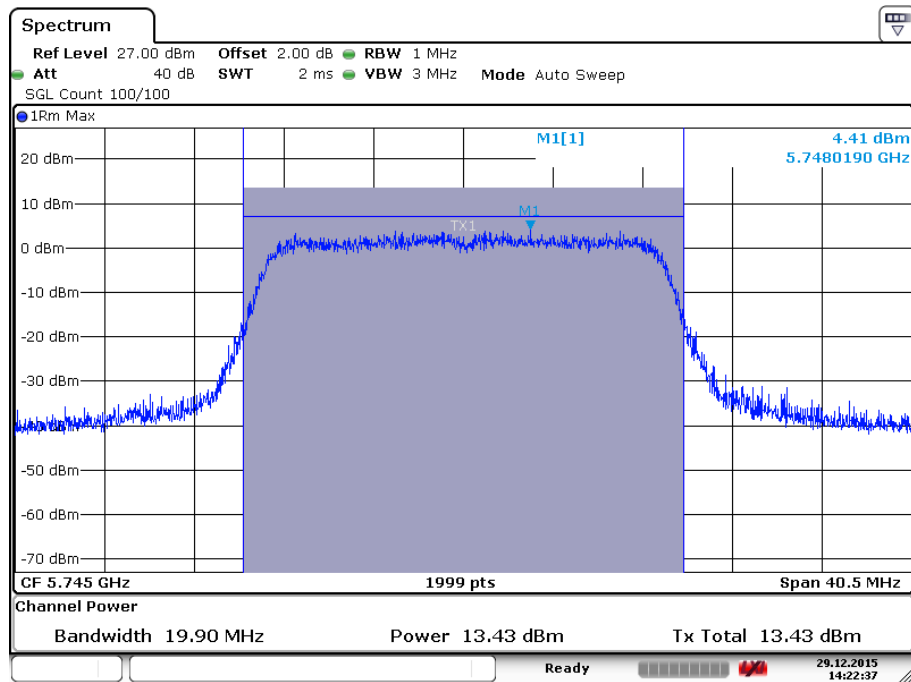


Result plot as follows:

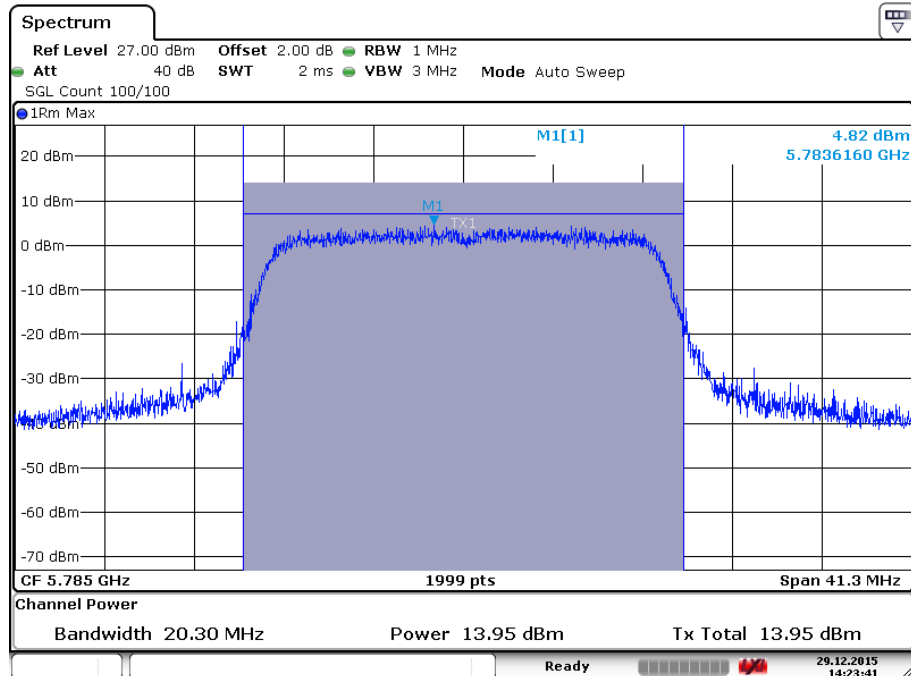
Band IV 5725 MHz to 5850 MHz

802.11an(HT 20)

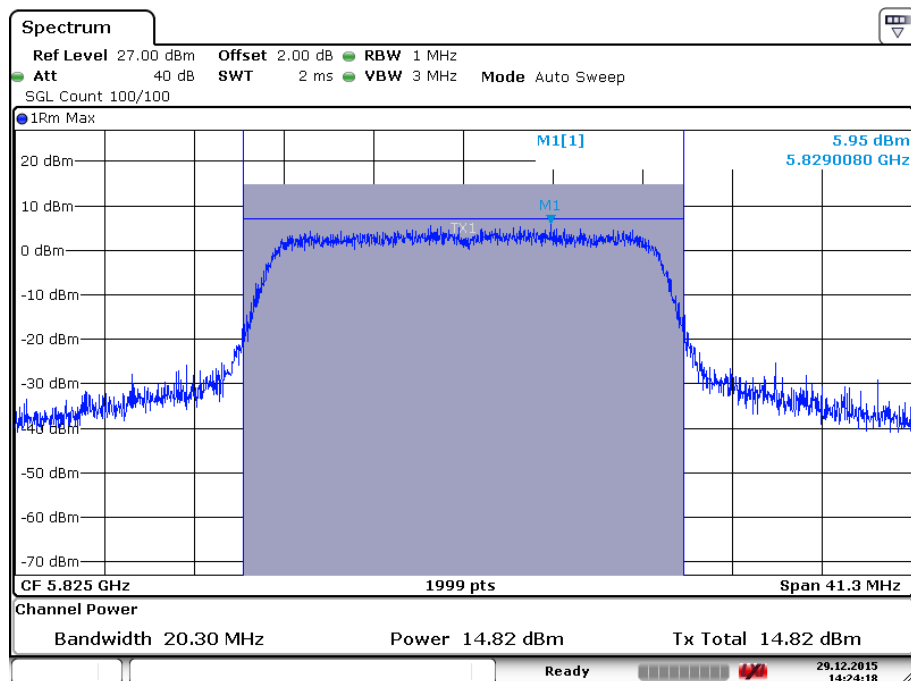
Channel 149: 5745 MHz:



Channel 157: 5785 MHz:

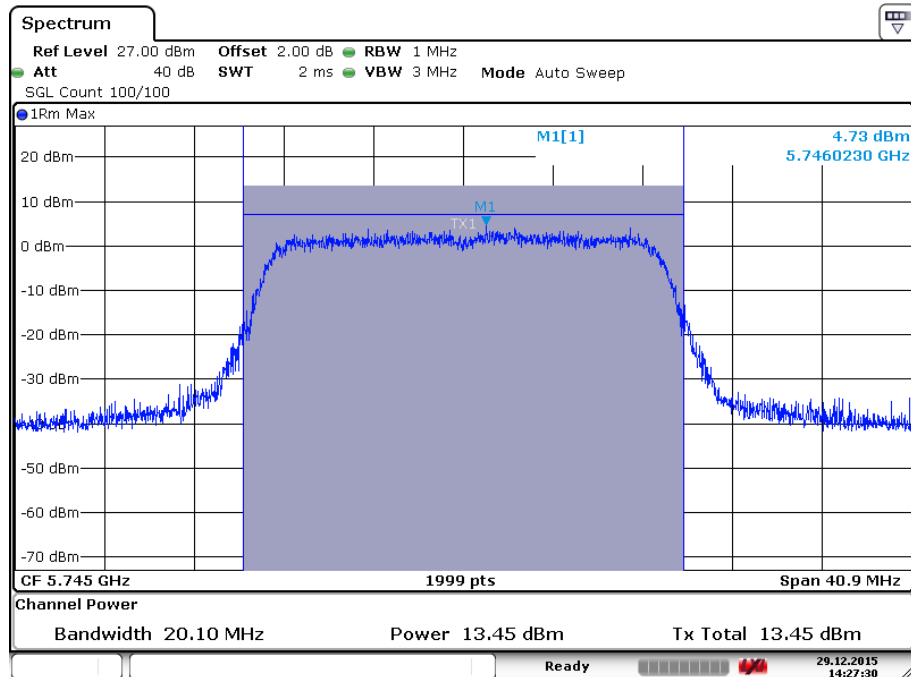


Channel 165: 5825 MHz:

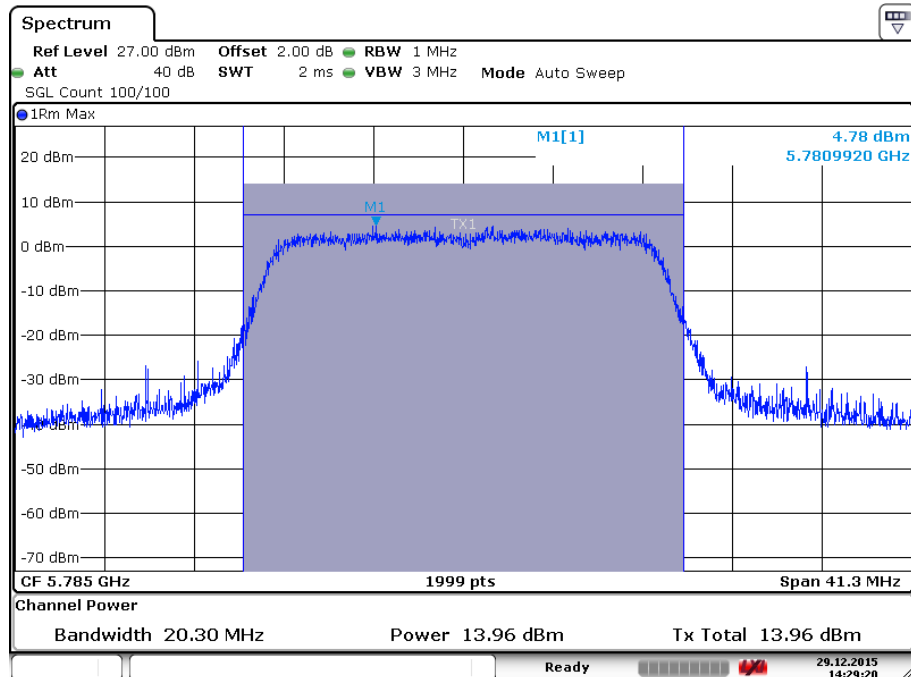


802.11ac(HT 20)

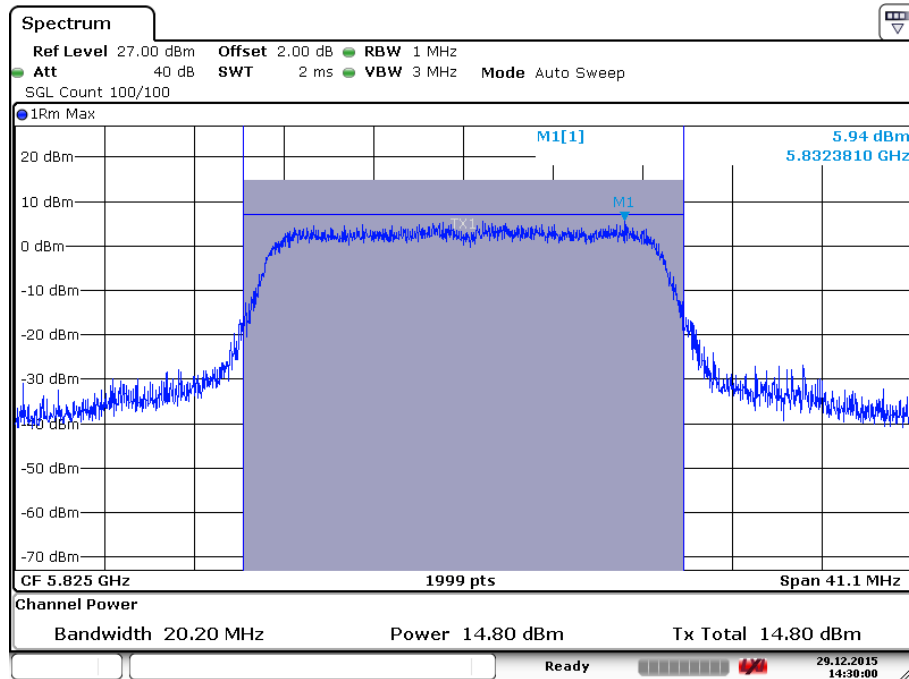
Channel 149: 5745 MHz:



Channel 157: 5785 MHz:

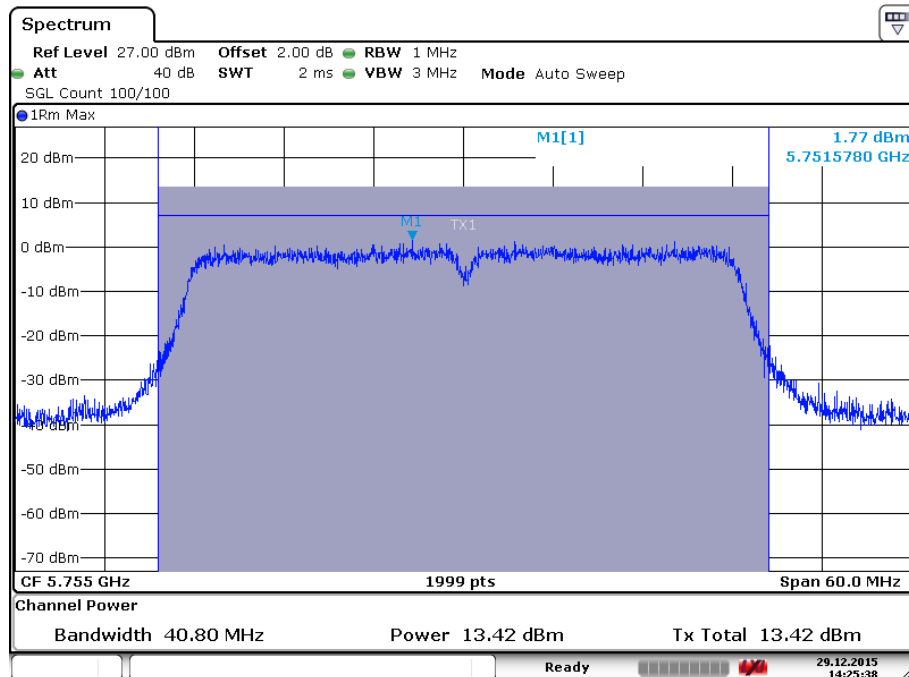


Channel 165: 5825 MHz:

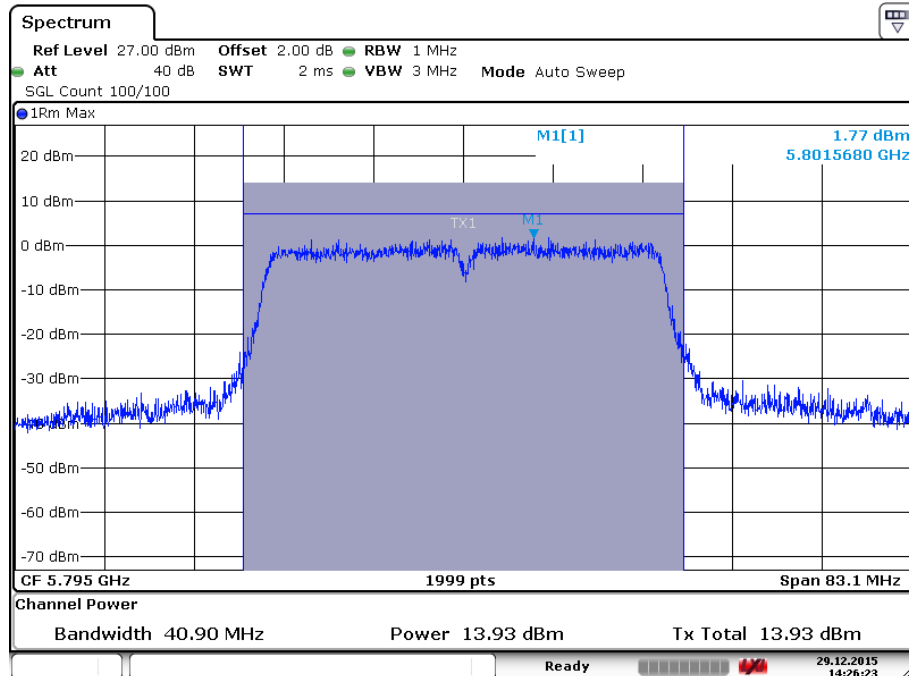


802.11an(HT 40)

Channel 151: 5755 MHz:

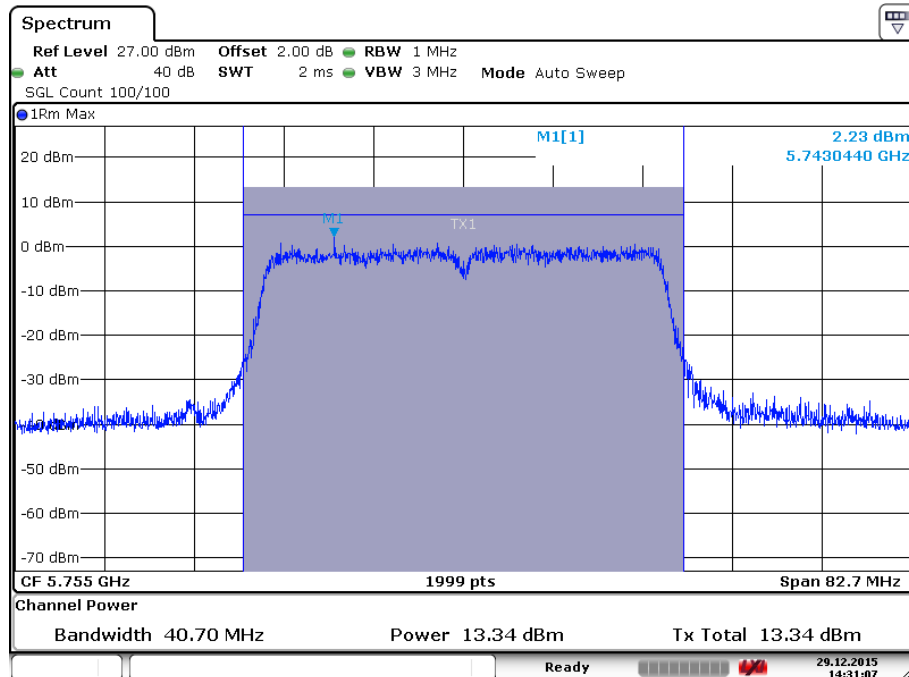


Channel 159: 5795 MHz:

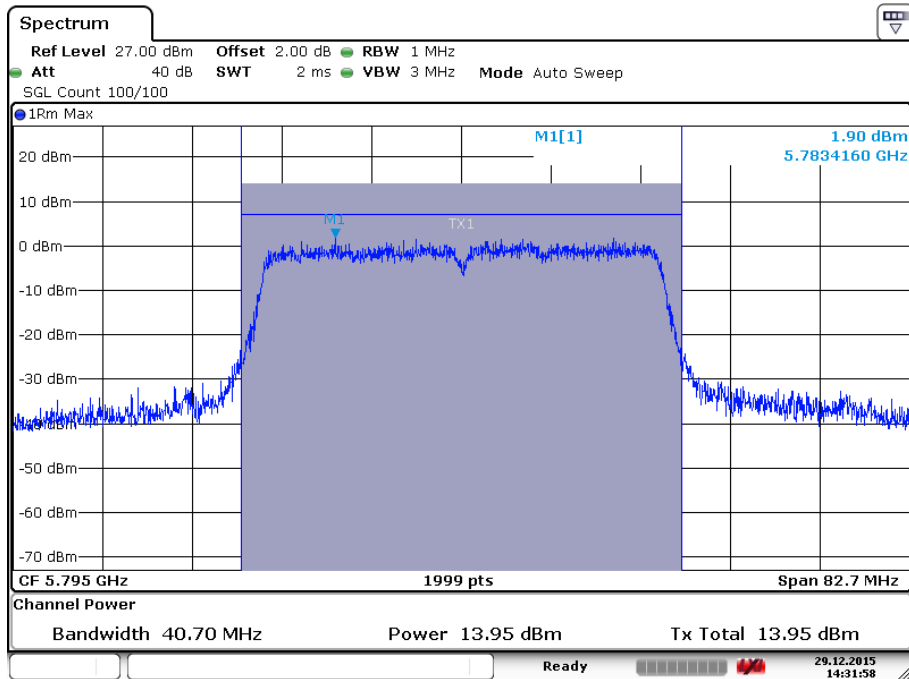


802.11ac(HT 40)

Channel 151: 5755 MHz:

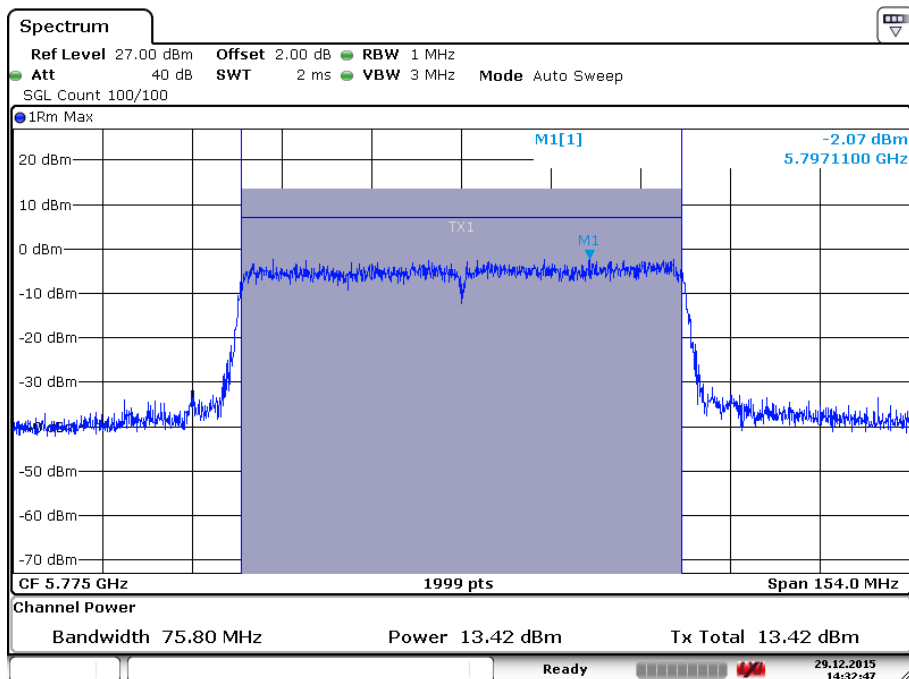


Channel 159: 5795 MHz:



802.11ac(HT 80)

Channel 155: 5775 MHz:



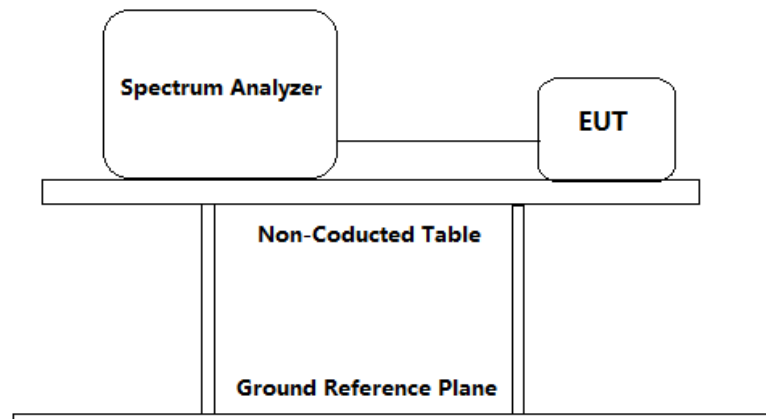
4.4 Maximum Peak Power Spectral Density

Test Requirement: FCC Part 15 C clause 15.407(a)

Test Method: FCC KDB 789033 D02 General UNII Test Procedures New Rules v01, Clause F

Test Status: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss =2 dB) from the antenna port to the spectrum analyzer or power meter.
2. Set the spectrum analyzer:
For Band I (5150MHz-5250MHz)
 - a) Set the RBW = 1MHz.
 - b) Set the VBW \geq (3 \times RBW).
 - c) Set the span \geq 26 dB Bandwidth
 - d) Detector = peak
 - e) Sweep time = auto couple.
 - f) Trace mode = max hold.
 - g) Allow trace to fully stabilize.
 - i) Use the peak marker function to determine the maximum amplitude level within the RBW.
For Band IV (5725MHz-5850MHz)
 - a) Set the RBW = 500kHz.
 - b) Set the VBW \geq (3 \times RBW).
 - c) Set the span \geq 26 dB Bandwidth.
 - d) Detector = peak
 - e) Sweep time = auto couple.
 - f) Trace mode = max hold.
 - g) Allow trace to fully stabilize.
 - i) Use the peak marker function to determine the maximum amplitude level within the RBW. Measure the Power Spectral Density of the test frequency with special test status.
3. Measure the Power Spectral Density of the test frequency with special test status.
4. Repeat until all the test status is investigated.
5. Report the worst case.

Band I (5150MHz-5250MHz)

Channel No.	Frequency (MHz)	Mode	Data Rate	Maximum Power Spectral Density (dBm/MHz)	Limit	Result
36	5180	802.11an (HT20)	72.2 Mbps	9.8	17dBm/ MHz	Pass
44	5220		72.2 Mbps	8.8		Pass
48	5240		72.2 Mbps	7.7		Pass
38	5190	802.11an (HT40)	150 Mbps	6.0		Pass
46	5230		150 Mbps	5.5		Pass
36	5180	802.11ac (HT20)	86.7 Mbps	9.3		Pass
44	5220		86.7 Mbps	8.8		Pass
48	5240		86.7 Mbps	7.8		Pass
38	5190	802.11ac (HT40)	200 Mbps	6.0		Pass
46	5230		200 Mbps	5.8		Pass
42	5210	802.11ac (HT80)	433.3 Mbps	2.8		Pass

Test result: Level = Read Level + Cable Loss(2dB).
The unit does meet the FCC requirements.

Band IV (5725MHz-5850MHz)

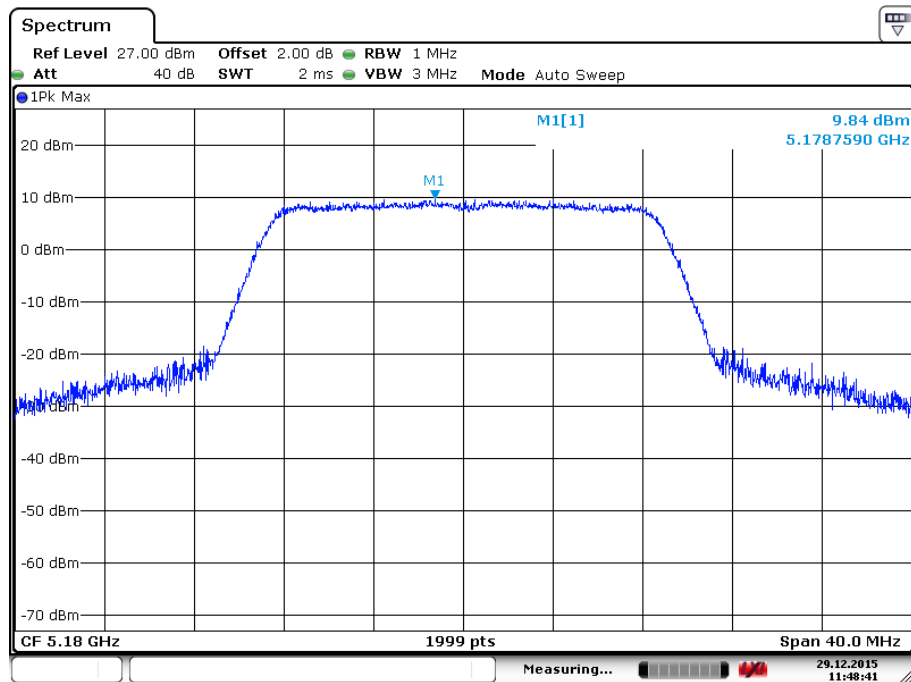
Channel No.	Frequency (MHz)	Mode	Data Rate	Maximum Power Spectral Density (dBm/500kHz)	Limit	Result
149	5745	802.11an (HT20)	72.2 Mbps	4.0	30dBm/500kHz	Pass
157	5785		72.2 Mbps	5.2		Pass
165	5825		72.2 Mbps	5.4		Pass
151	5755	802.11an (HT40)	150 Mbps	1.6		Pass
159	5795		150 Mbps	2.5		Pass
149	5745	802.11ac (HT20)	86.7 Mbps	4.8		Pass
157	5785		86.7 Mbps	4.7		Pass
165	5825		86.7 Mbps	5.3		Pass
151	5755	802.11ac (HT40)	200 Mbps	1.1		Pass
159	5795		200 Mbps	2.1		Pass
155	5775	802.11ac (HT80)	433.3 Mbps	-1.9		Pass

Result plot as follows:

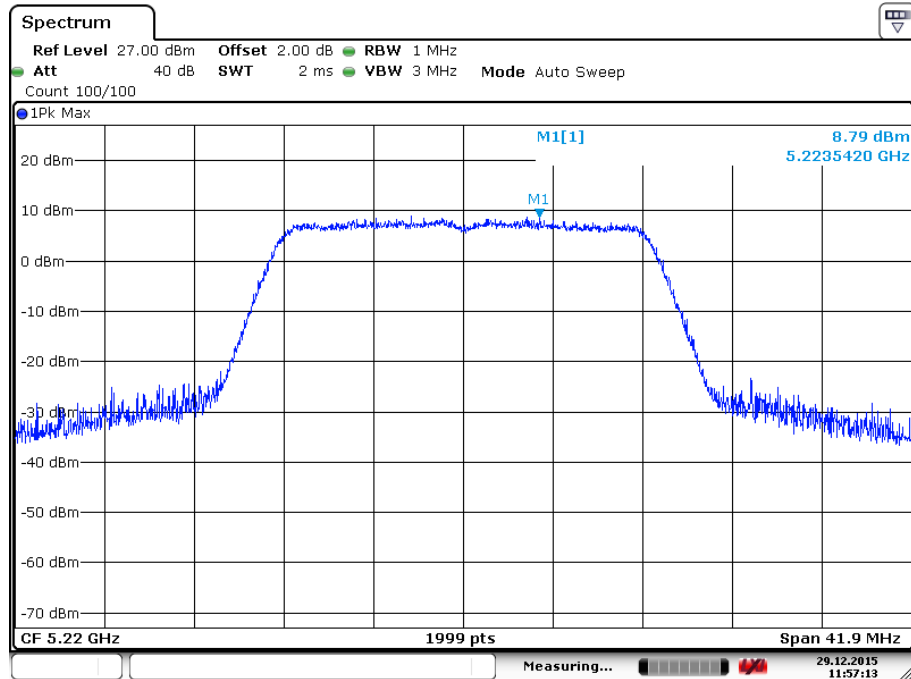
Band I 5150 MHz to 5250 MHz

802.11an(HT 20)

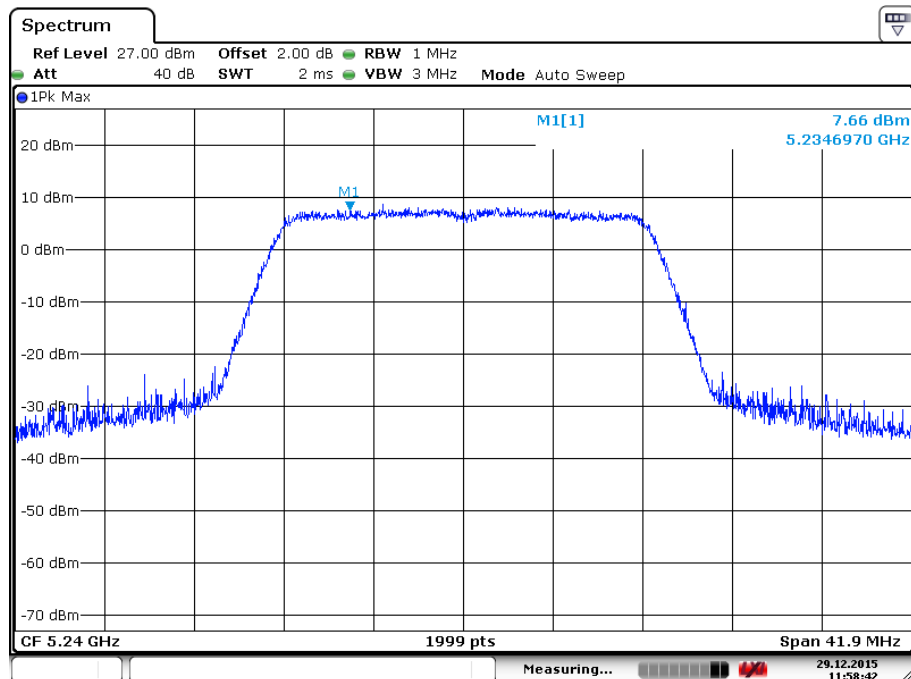
Channel 36: 5180 MHz:



Channel 44: 5220 MHz:

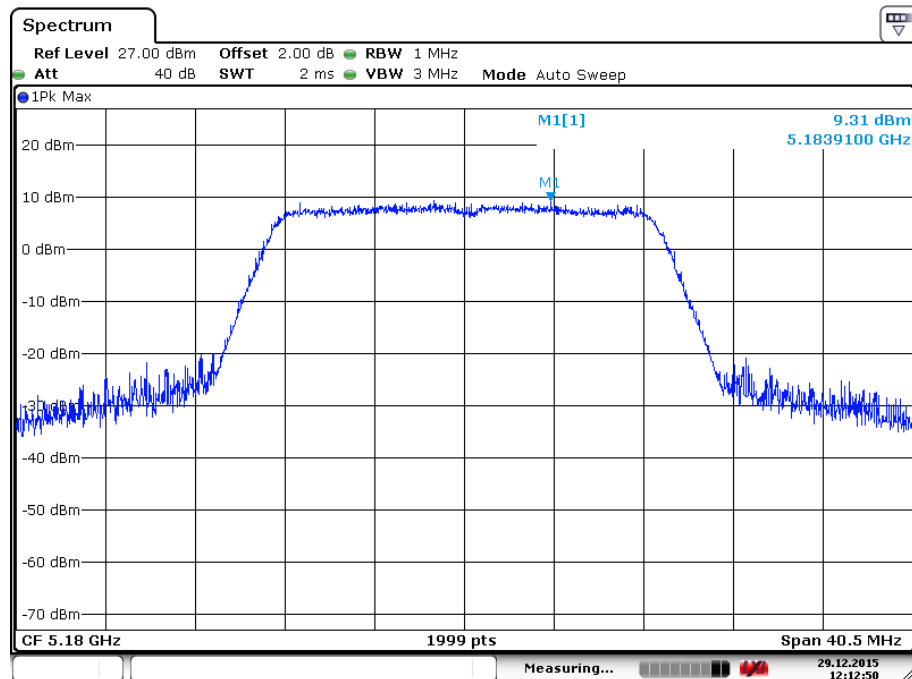


Channel 48: 5240 MHz:

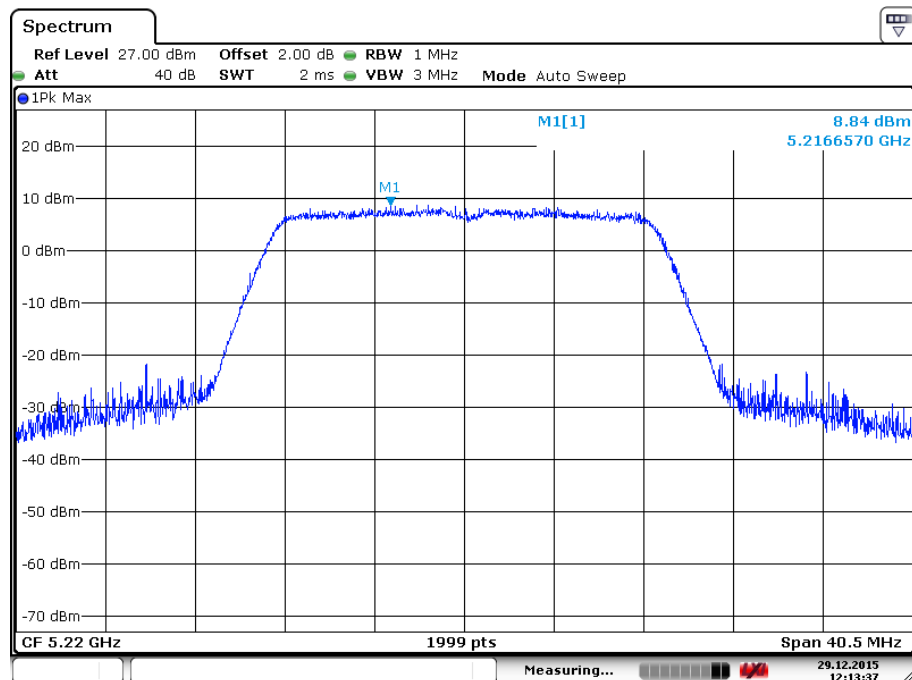


802.11ac(HT 20)

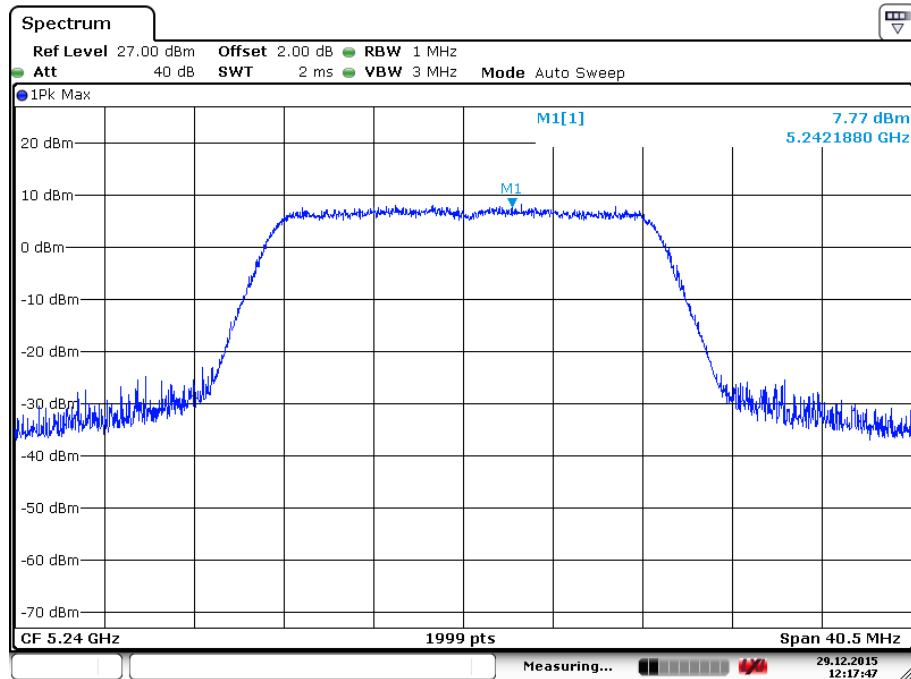
Channel 36: 5180 MHz:



Channel 44: 5220 MHz:

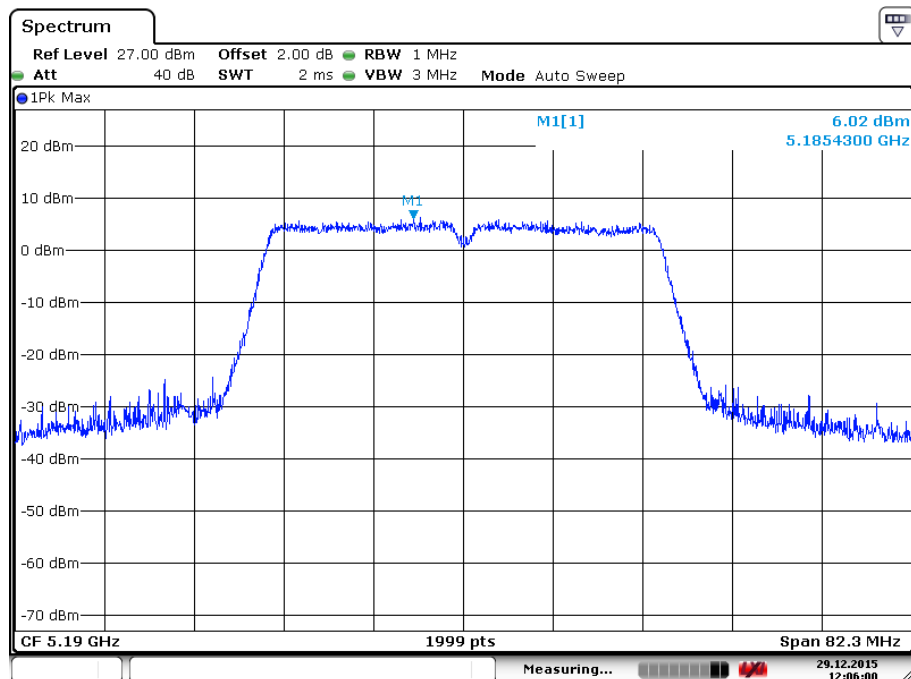


Channel 48: 5240 MHz:

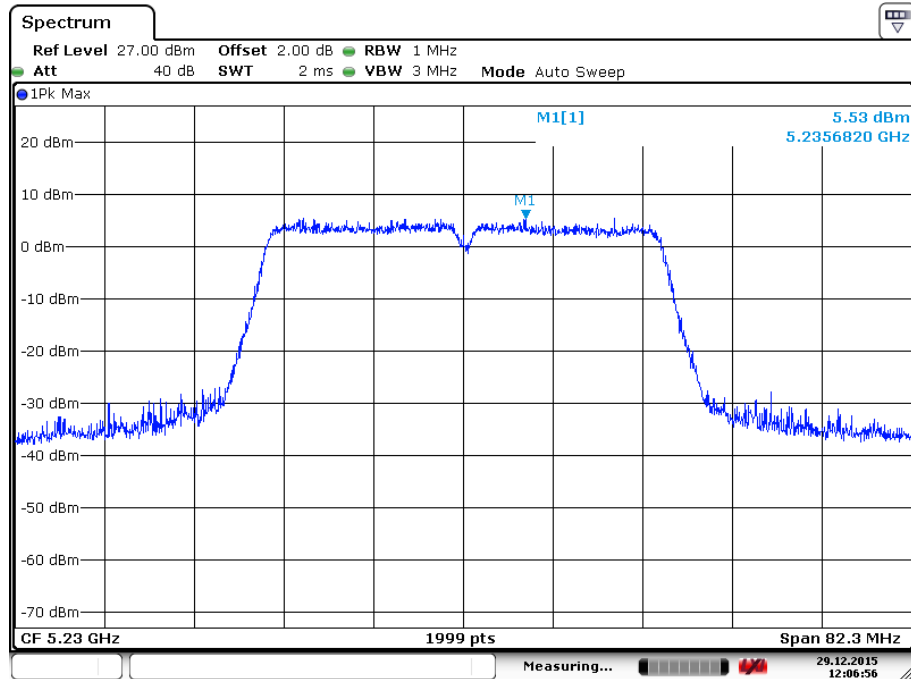


802.11an(HT 40)

Channel 38: 5190 MHz:

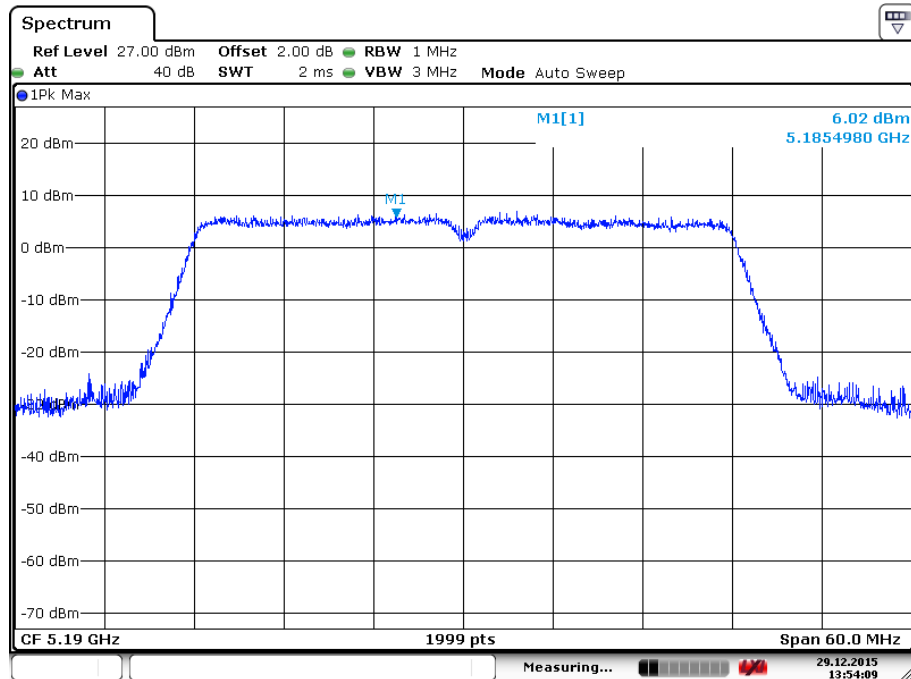


Channel 46: 5230 MHz:

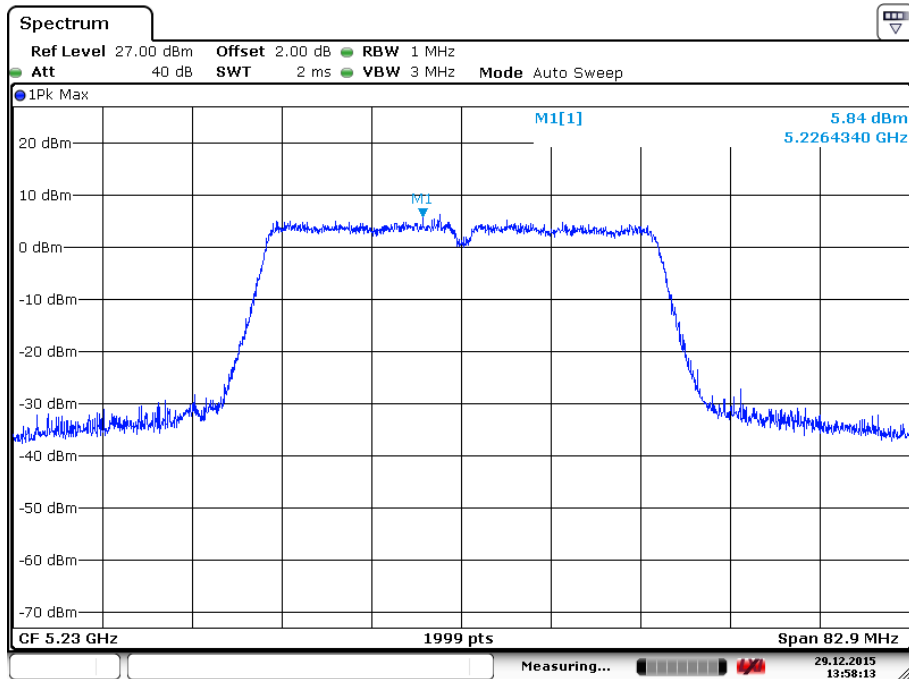


802.11ac(HT 40)

Channel 38: 5190 MHz:

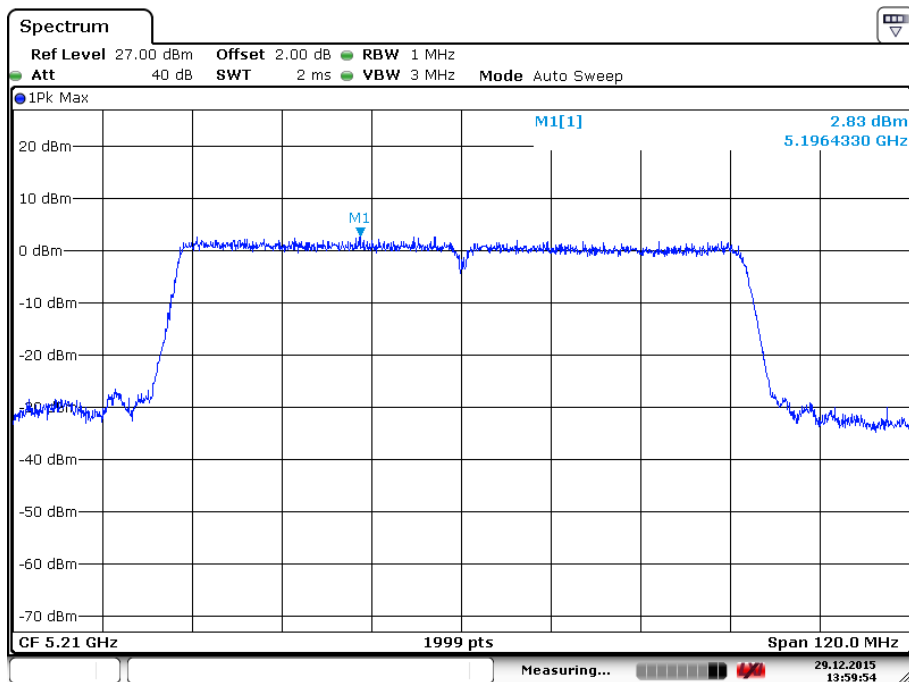


Channel 46: 5230 MHz:



802.11ac(HT 80)

Channel 42: 5210 MHz:

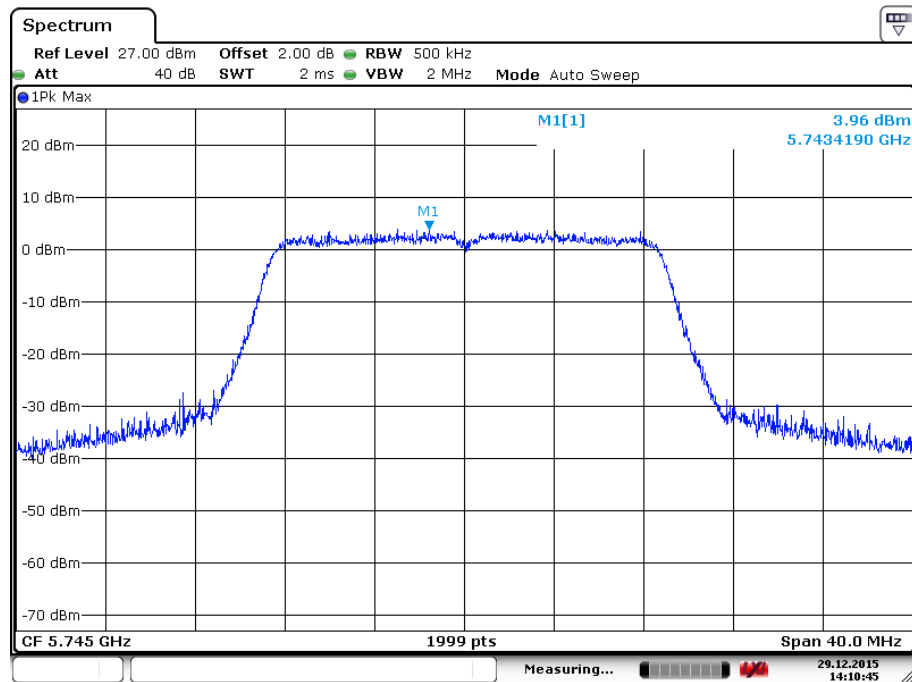


Result plot as follows:

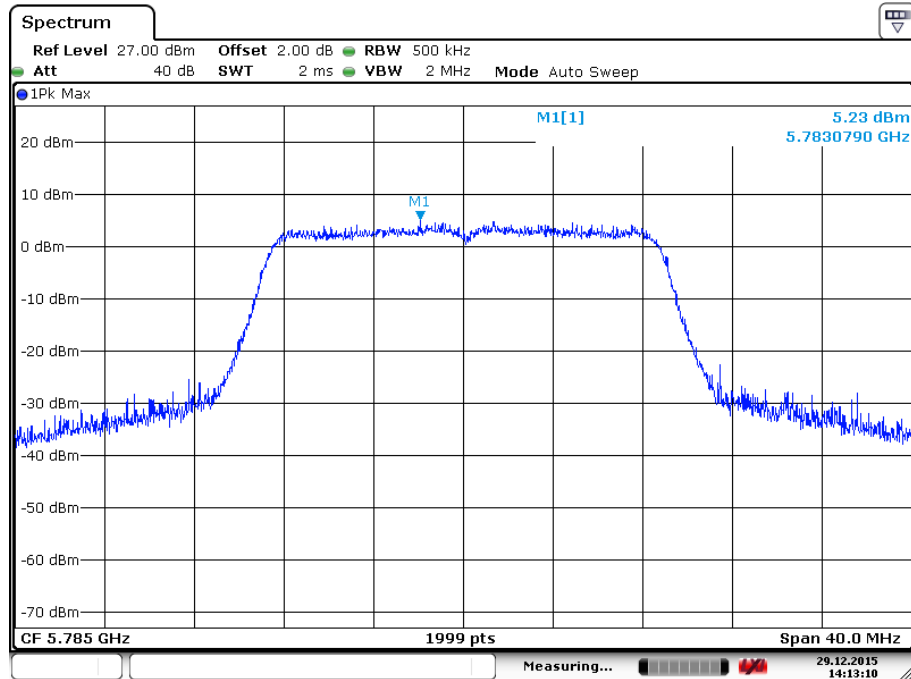
Band IV 5725 MHz to 5850 MHz

802.11an(HT 20)

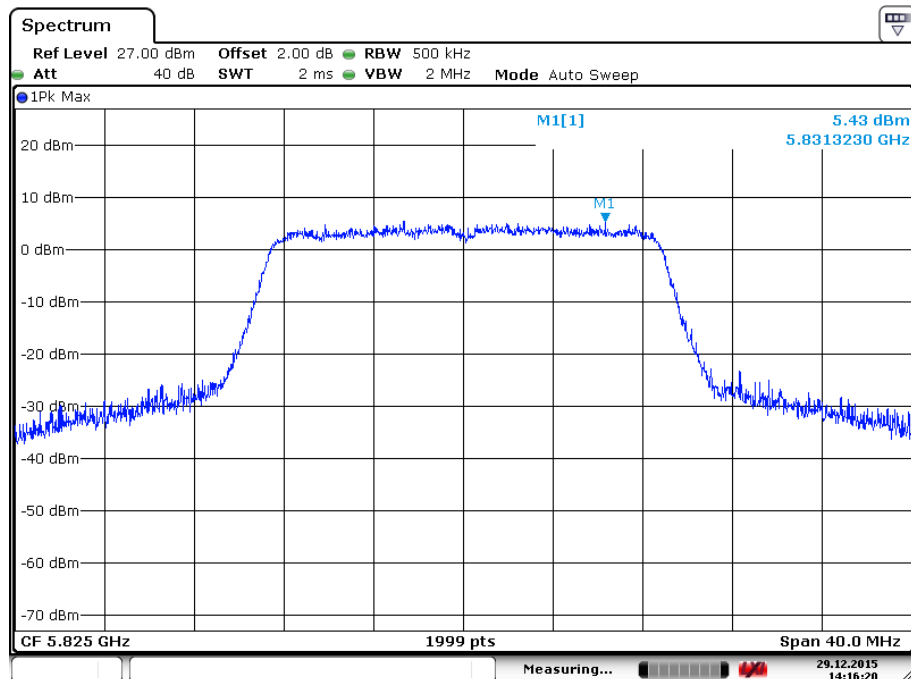
Channel 149: 5745 MHz:



Channel 157: 5785 MHz:

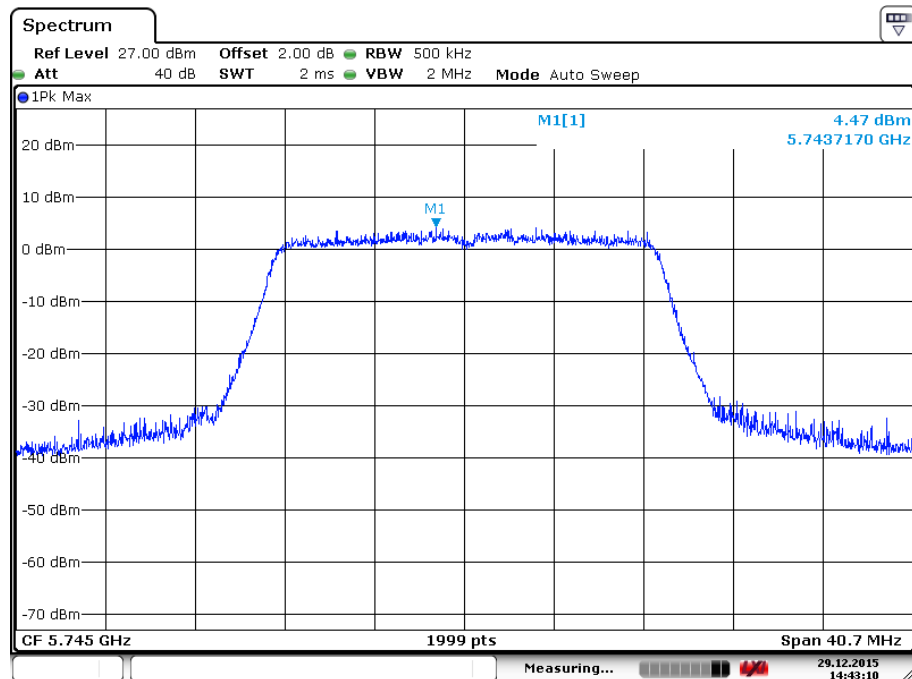


Channel 165: 5825 MHz:

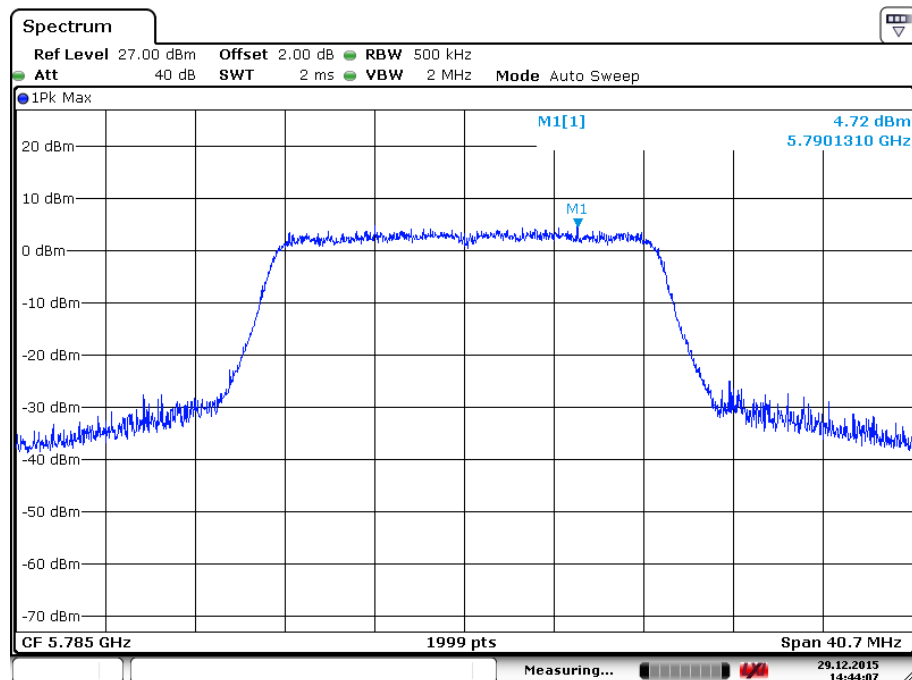


802.11ac(HT 20)

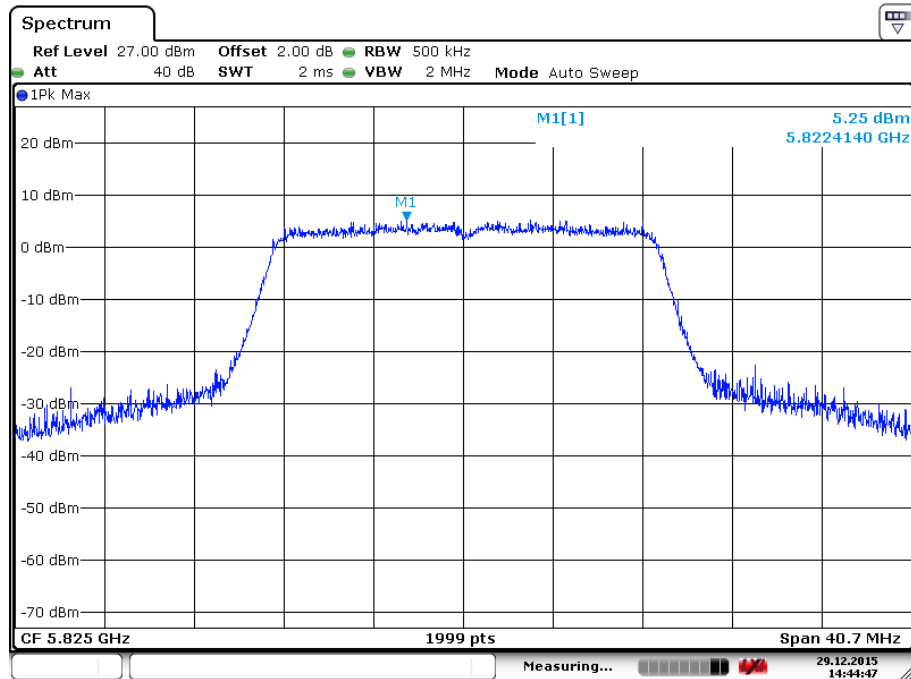
Channel 149: 5745 MHz:



Channel 157: 5785 MHz:

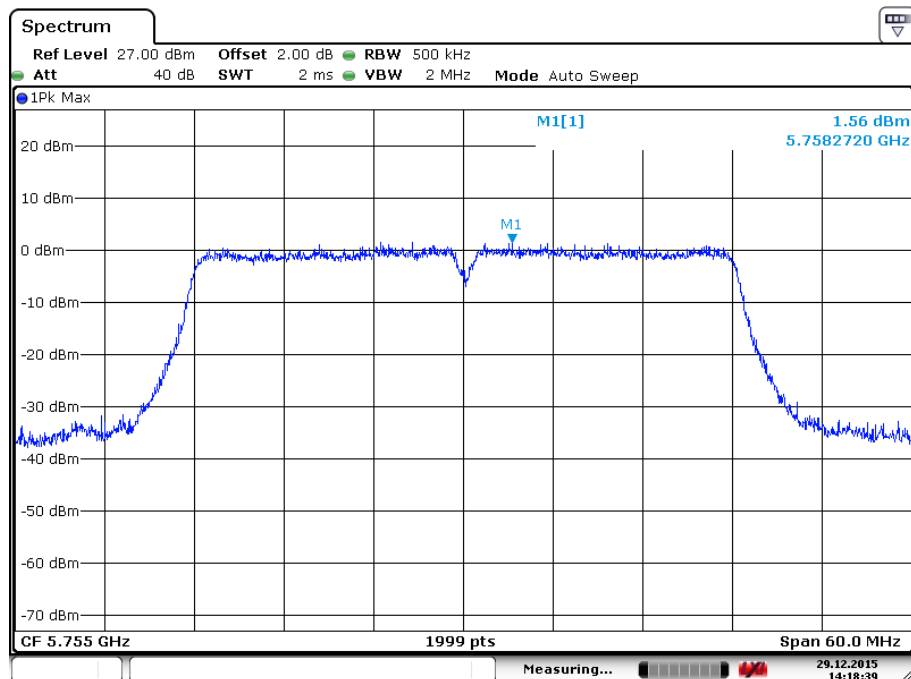


Channel 165: 5825 MHz:

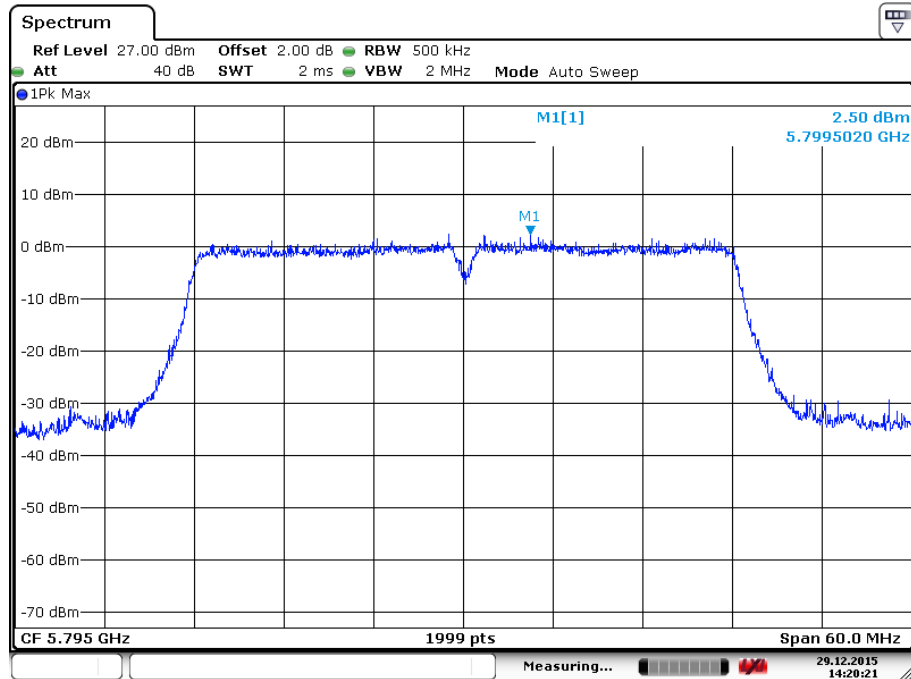


802.11an(HT 40)

Channel 151: 5755 MHz:

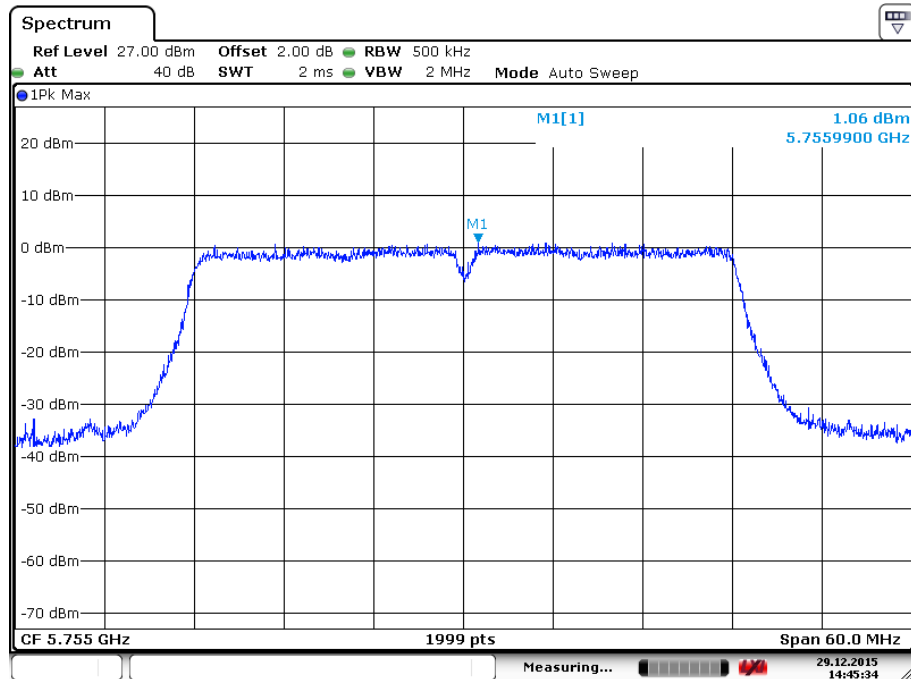


Channel 159: 5795 MHz:

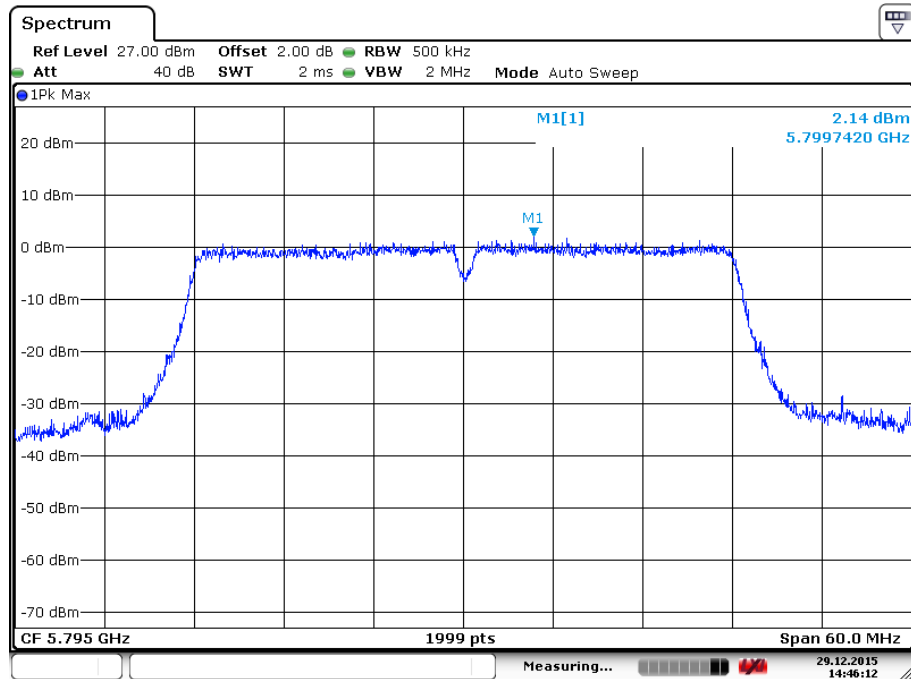


802.11ac(HT 40)

Channel 151: 5755 MHz:

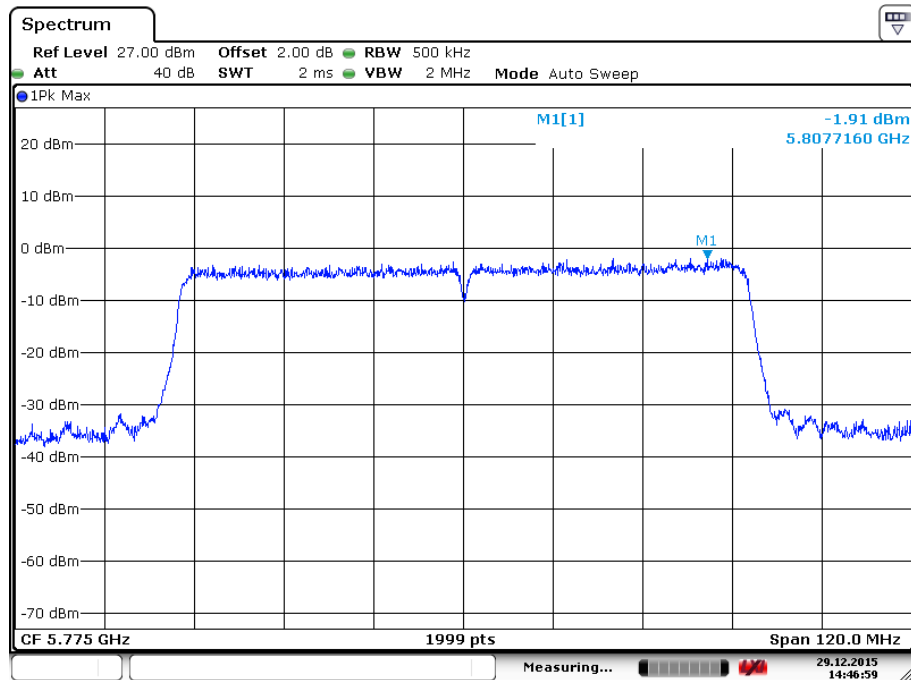


Channel 159: 5795 MHz:



802.11ac(HT 80)

Channel 155: 5775 MHz:



4.7 Radiated Spurious Emissions

Test Requirement:	FCC Part 15 C clause 15.407(b) In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).
Test Method:	FCC KDB 789033 D02 General UNII Test Procedures New Rules v01, Clause G
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)
Limit:	40.0 dB μ V/m between 30MHz & 88MHz; 43.5 dB μ V/m between 88MHz & 216MHz; 46.0 dB μ V/m between 216MHz & 960MHz; 54.0 dB μ V/m above 960MHz.
Detector:	For Peak and Quasi-Peak value: RBW = 1 MHz for $f \geq 1$ GHz, 200 Hz for 9 kHz to 150 kHz 9 kHz for 150 kHz to 30 MHz 120 kHz for 30 MHz to 1GHz VBW \geq RBW Sweep = auto Detector function = peak for $f \geq 1$ GHz, QP for $f < 1$ GHz Trace = max hold For AV value: RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz VBW=10 Hz Sweep = auto Trace = max hold

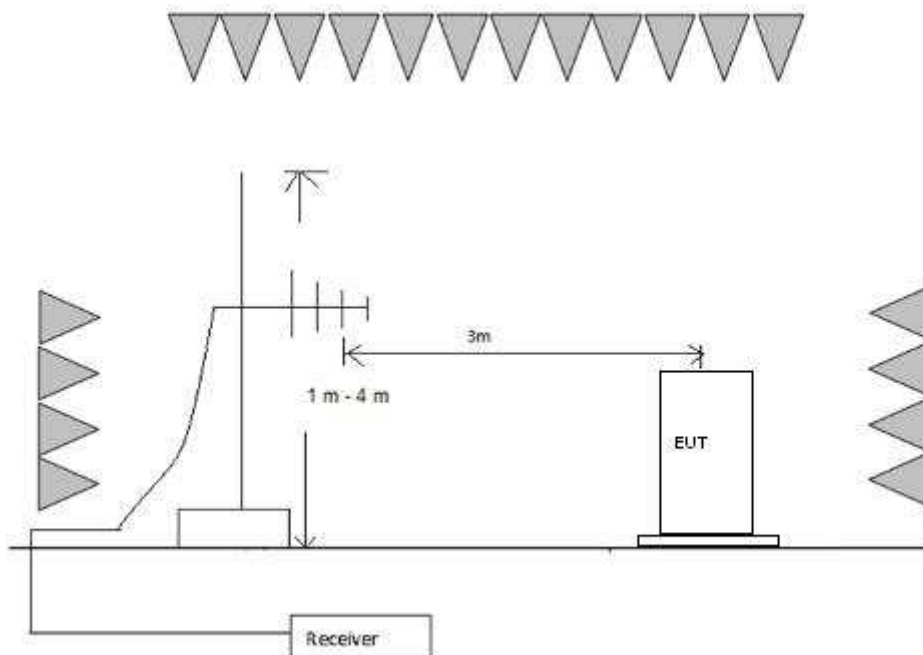
Section 15.205 Restricted bands of operation.

(a) Except as shown in paragraph (d) of this section. Only spurious emissions are permitted in any of the frequency bands listed below:

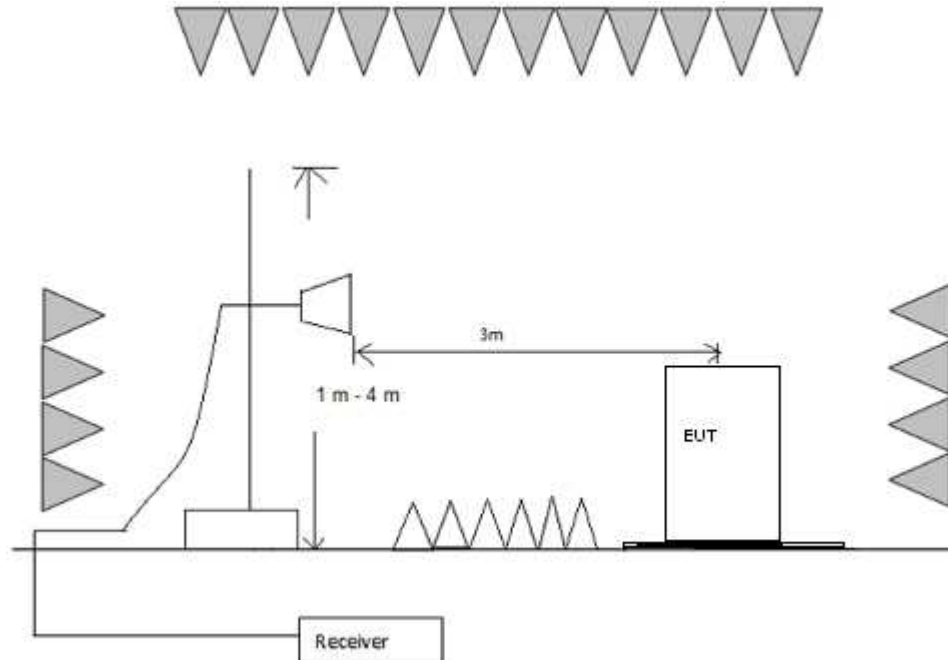
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 -	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.69525	960 - 1240	7.25 - 7.75
4.125 - 4.128	16.80425 -	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	16.80475	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	25.5 - 25.67	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	37.5 - 38.25	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	73 - 74.6	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	74.8 - 75.2	2200 - 2300	14.47 - 14.5
8.291 - 8.294	108 - 121.94	2310 - 2390	15.35 - 16.2
8.362 - 8.366	123 - 138	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	149.9 - 150.05	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.52475 -	3260 - 3267	23.6 - 24.0
12.29 - 12.293	156.52525	3332 - 3339	31.2 - 31.8
12.51975 -	156.7 - 156.9	3345.8 - 3358	36.43 - 36.5
12.52025	162.0125 - 167.17	3600 - 4400	
12.57675 -	167.72 - 173.2		
12.57725	240 - 285		
13.36 - 13.41	322 - 335.4		

Test Configuration:

1) 30 MHz to 1 GHz emissions:



2) 1 GHz to 40 GHz emissions:



Test Procedure:

Test site with RF absorbing material covering the ground plane that met the site validation criterion called out in CISPR 16-1-4:2007 was used to perform radiated emission test above 1 GHz.

The receiver was scanned from 9 kHz to 25 GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.

9 kHz~30 MHz Field Strength of Unwanted Emissions for Quasi-Peak Measurement

The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any), Average Factor (optional) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG$$

$$\rightarrow FS = RA + \text{Correct Factor}$$

where FS = Field Strength in dB μ V/m

RA = Receiver Amplitude (including preamplifier) in dB μ V

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB

AG = Amplifier Gain in dB

Correct Factor = AF + CF – AG

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows:

$$FS = RA + \text{Correct Factor}$$

30 MHz~1 GHz Spurious Emissions .Quasi-Peak Measurement.

Pretest on the lowest channel, middle channel and highest channel for each mode of the brand I and brand IV.

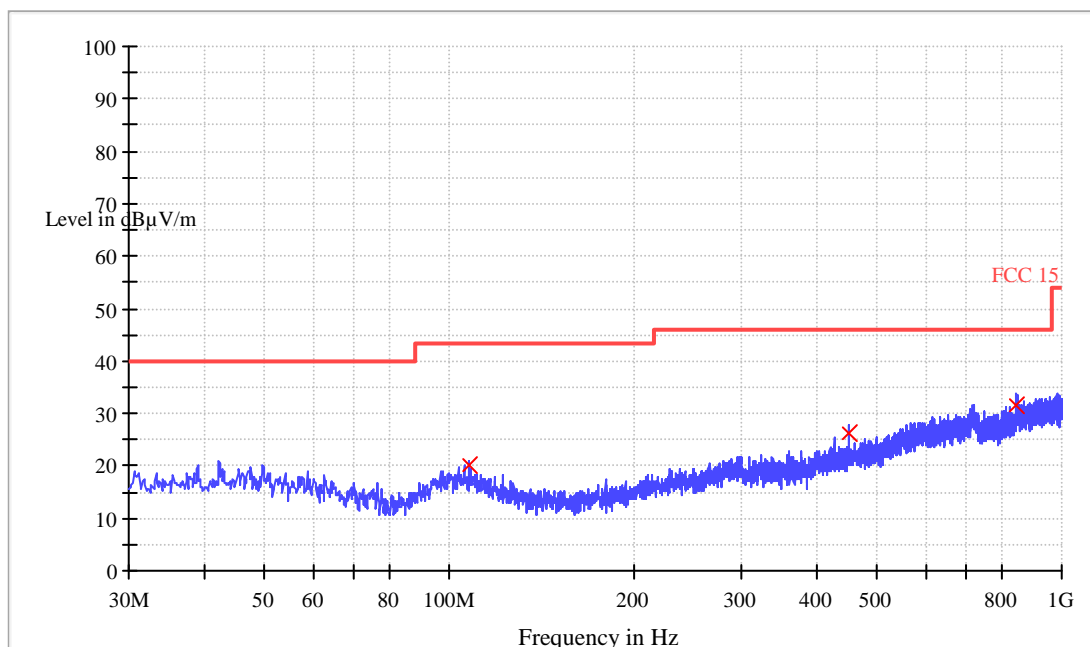
Result follows:

Band I 5150 MHz to 5250 MHz

802.11an(HT 20)

Channel 36: 5180 MHz:

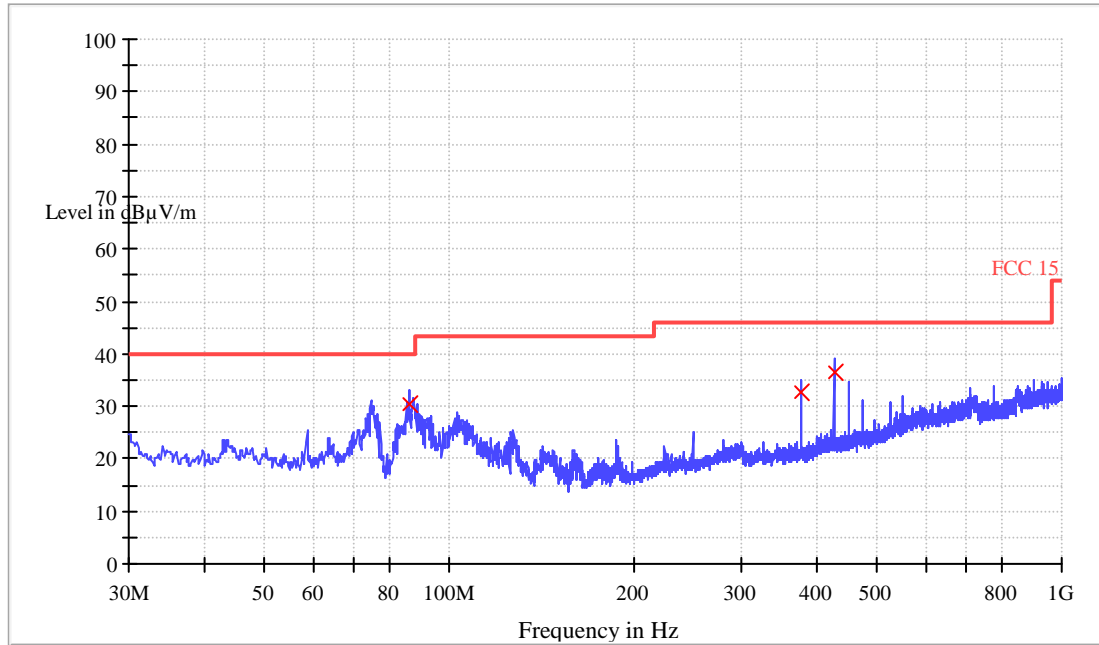
Horizontal



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
107.600000	20.0	120.000	H	12.4	23.5	43.5
450.040000	26.1	120.000	H	18.0	19.9	46.0
845.080000	31.5	120.000	H	24.2	14.5	46.0

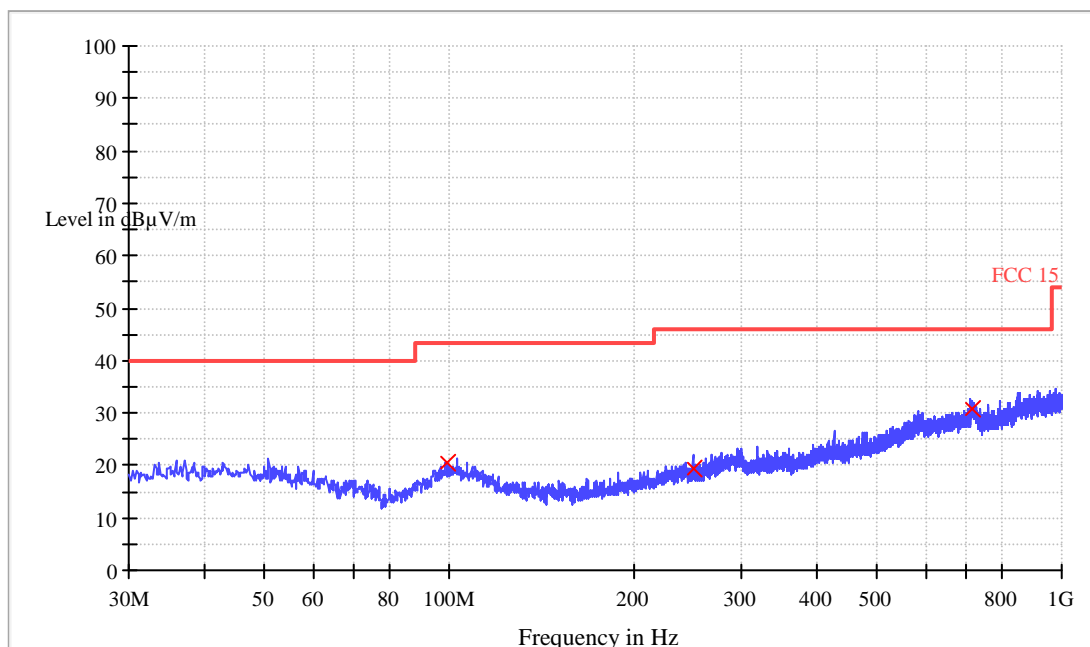
Vertical



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
86.000000	30.4	120.000	V	8.9	9.6	40.0
374.920000	32.6	120.000	V	16.1	13.5	46.0
424.920000	36.7	120.000	V	17.6	9.3	46.0

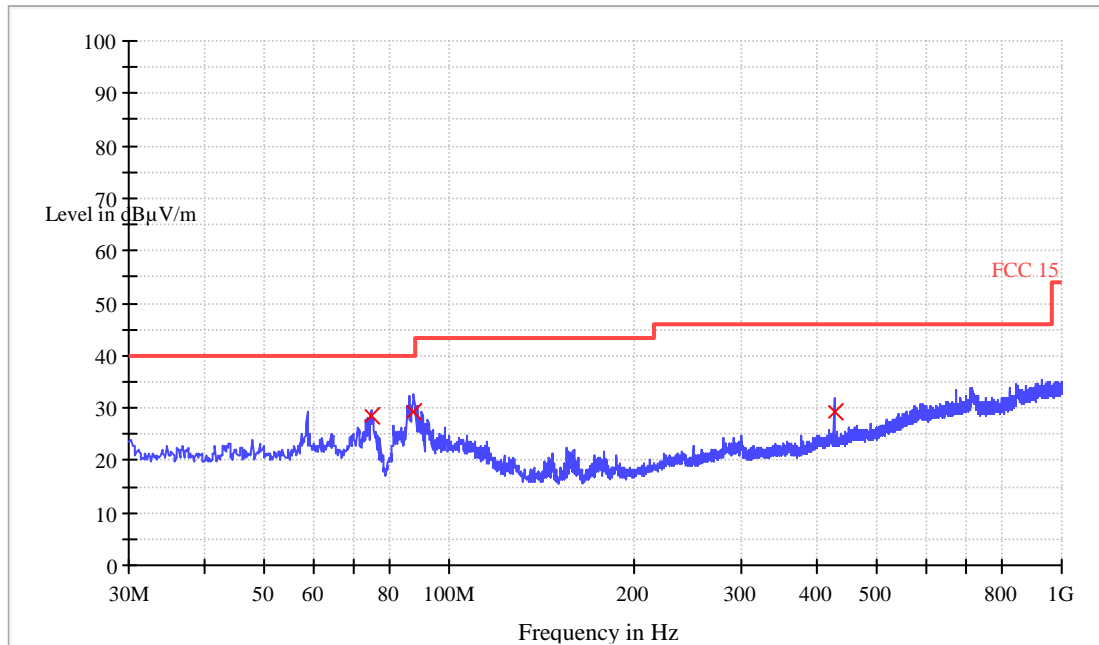
Channel 44: 5220 MHz:
Horizontal



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
98.920000	20.4	120.000	H	12.7	23.1	43.5
249.880000	19.3	120.000	H	12.7	26.7	46.0
712.680000	30.8	120.000	H	22.3	15.2	46.0
712.680000	30.9	120.000	H	22.3	15.1	46.0

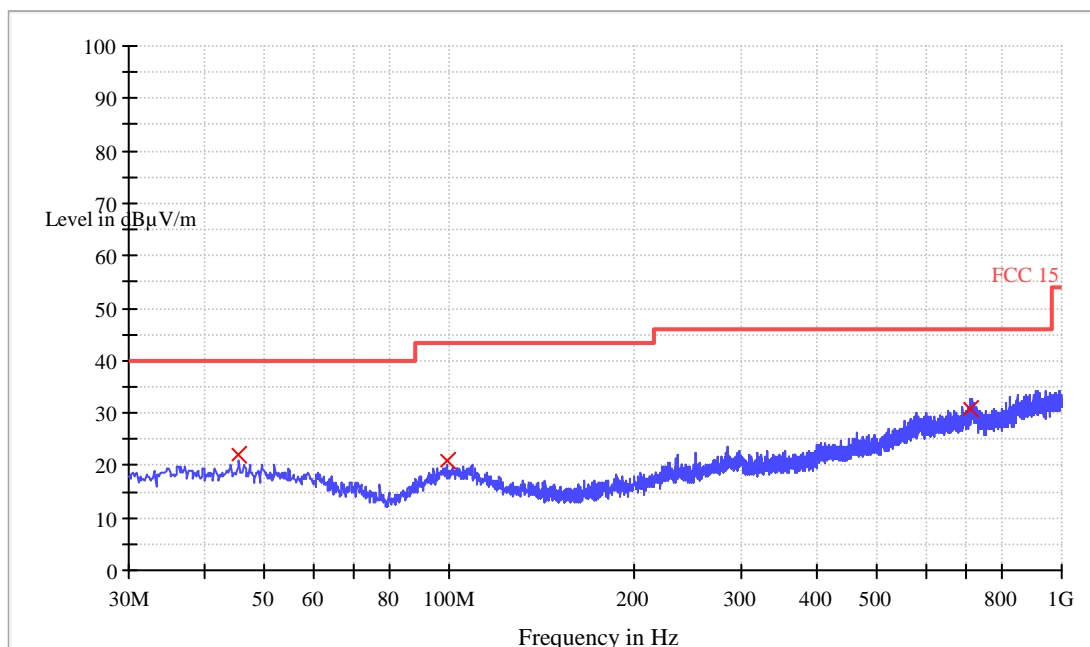
Vertical



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
74.520000	28.5	120.000	V	7.9	11.5	40.0
87.600000	29.5	120.000	V	9.4	10.5	40.0
424.920000	29.4	120.000	V	17.6	16.6	46.0

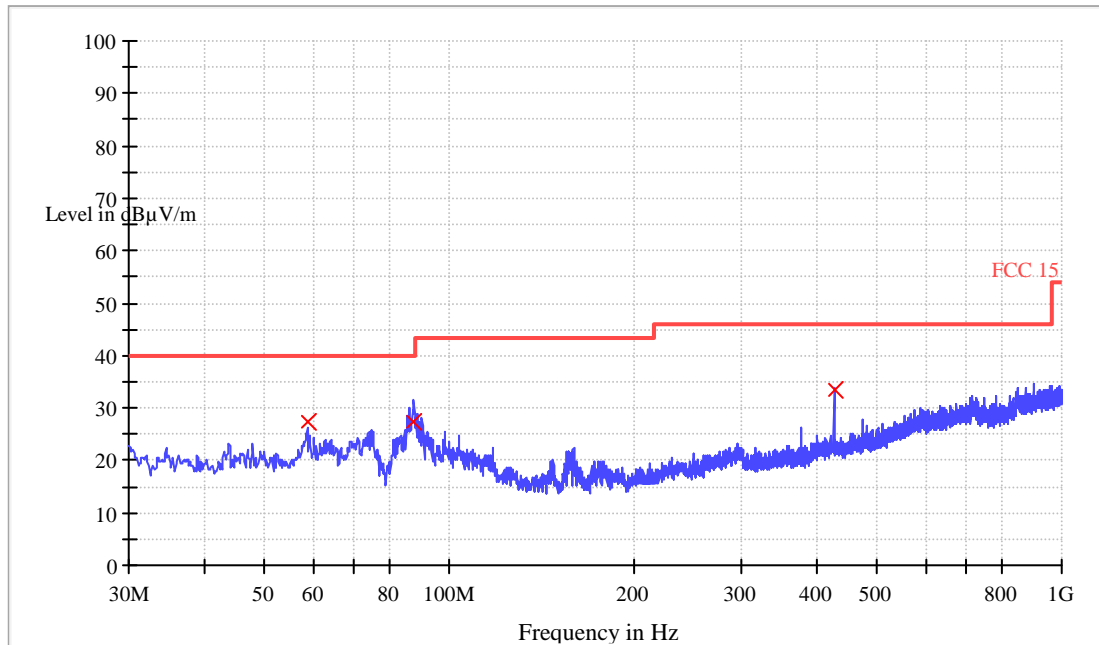
Channel 48: 5240 MHz:
Horizontal



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
45.280000	22.1	120.000	H	13.9	17.9	40.0
98.920000	21.1	120.000	H	13.9	22.4	43.5
709.440000	30.6	120.000	H	22.3	15.4	46.0

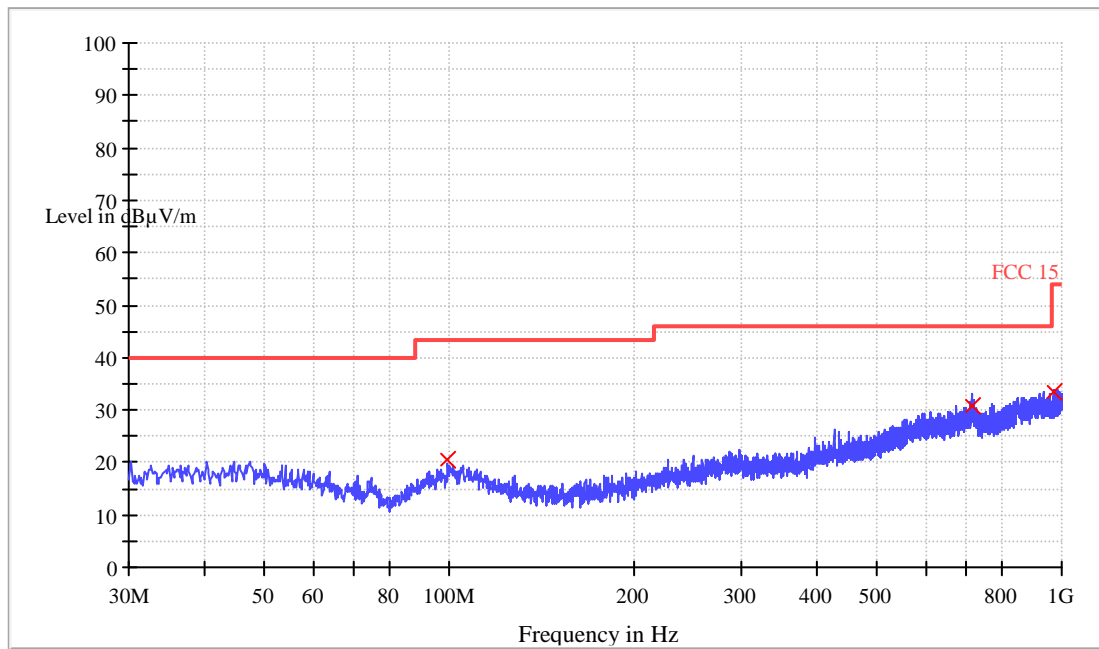
Vertical



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
58.640000	27.6	120.000	V	11.9	12.4	40.0
87.480000	27.6	120.000	V	9.3	12.4	40.0
424.920000	33.6	120.000	V	17.6	12.4	46.0

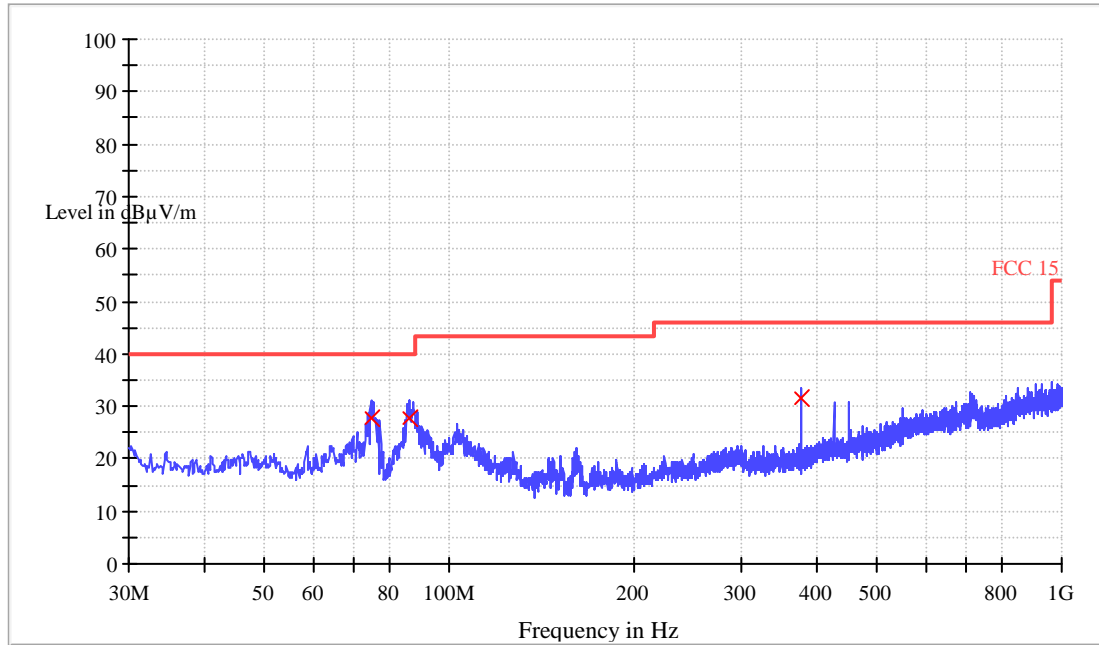
802.11ac(HT 20)
Channel 36: 5180 MHz:
Horizontal



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
99.360000	20.5	120.000	H	12.8	23.0	43.5
711.800000	30.7	120.000	H	22.3	15.3	46.0
971.640000	33.3	120.000	H	26.0	20.7	54.0

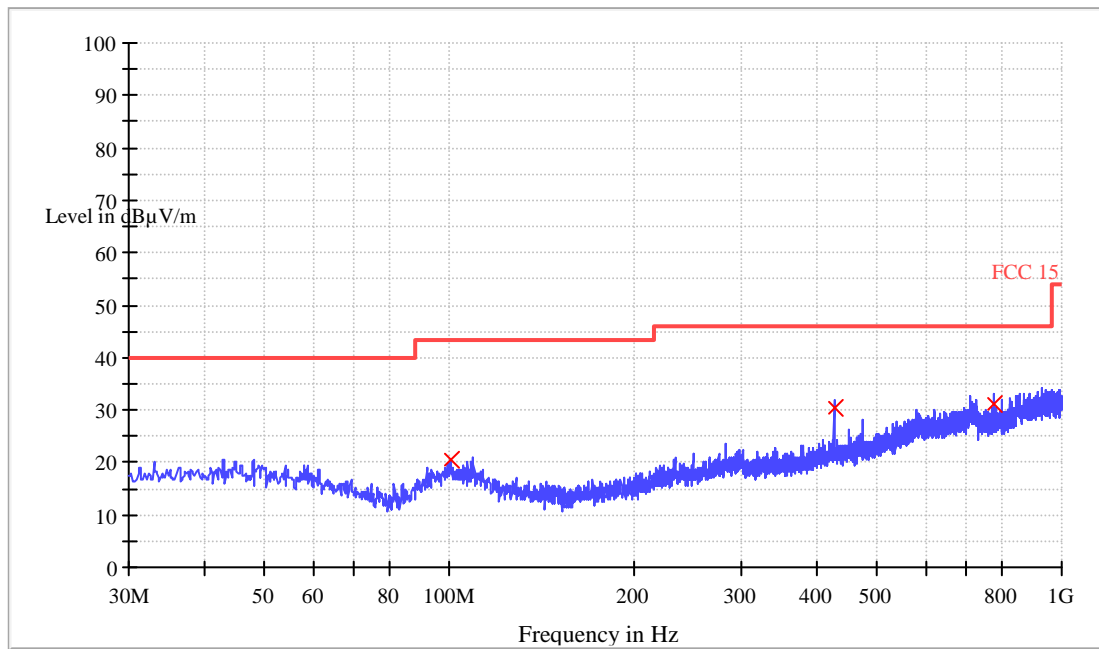
Vertical



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
74.520000	27.7	120.000	V	7.9	12.3	40.0
86.000000	27.7	120.000	V	8.9	12.3	40.0
374.920000	31.4	120.000	V	16.1	14.6	46.0

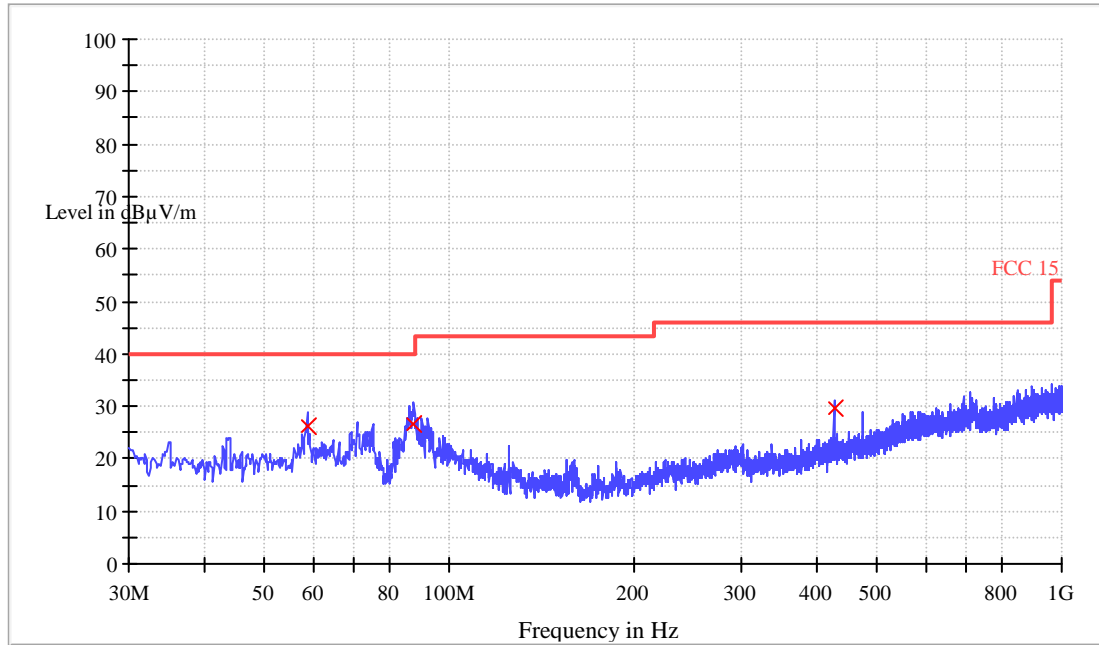
Channel 44: 5220 MHz:
Horizontal



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
100.560000	20.6	120.000	H	12.9	22.9	43.5
425.040000	30.3	120.000	H	17.6	15.7	46.0
775.000000	31.3	120.000	H	23.0	14.7	46.0

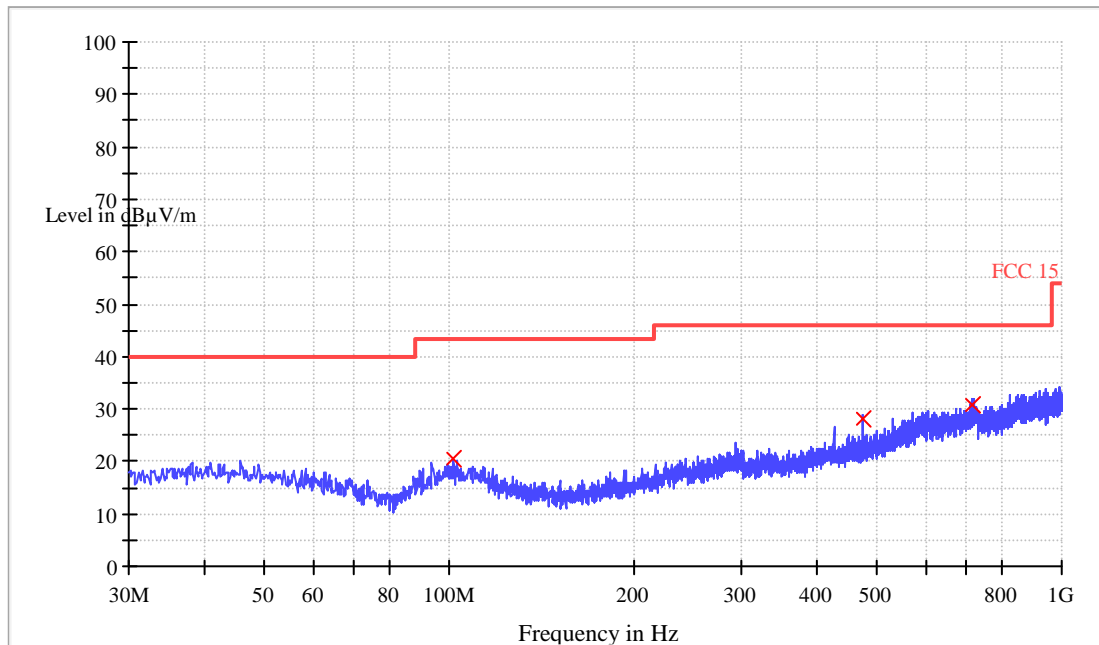
Vertical



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
58.640000	26.1	120.000	V	11.9	13.9	40.0
87.600000	26.5	120.000	V	9.4	13.5	40.0
424.920000	29.6	120.000	V	17.6	16.4	46.0

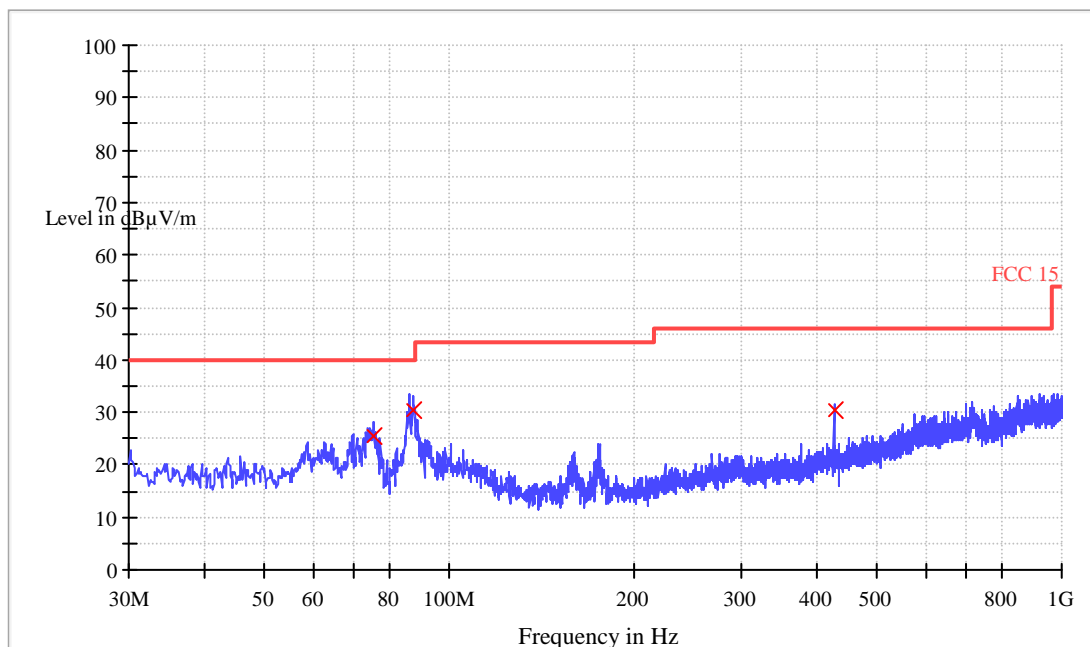
Channel 48: 5240 MHz:
Horizontal



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
101.720000	20.5	120.000	H	12.8	23.0	43.5
475.040000	28.1	120.000	H	18.6	17.9	46.0
715.920000	30.8	120.000	H	22.3	15.2	46.0

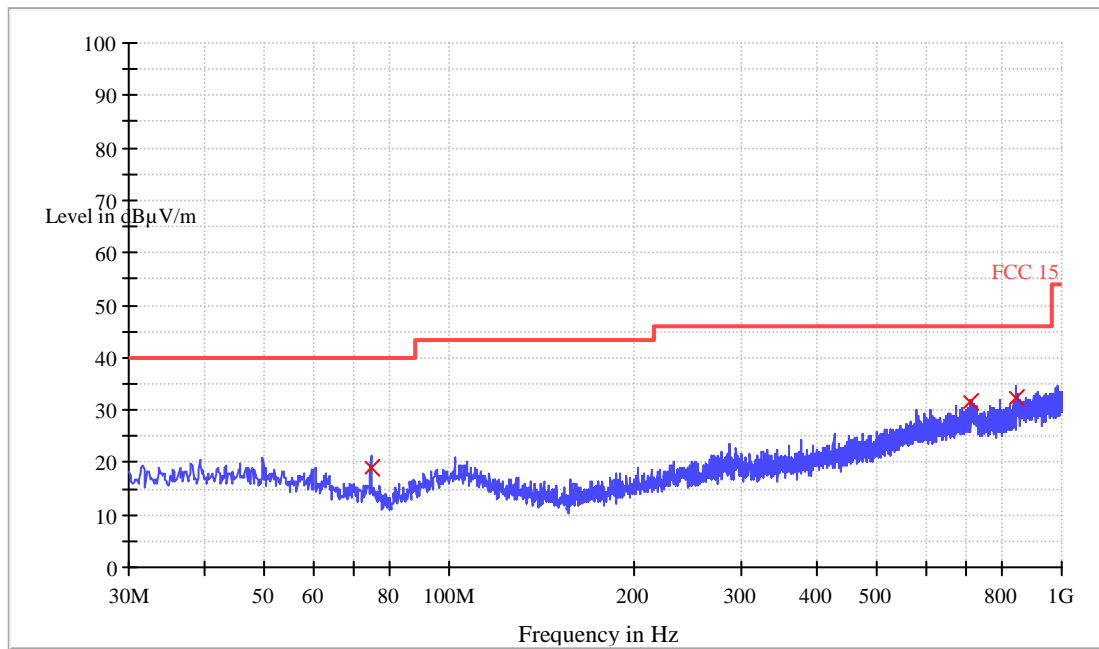
Vertical



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
75.120000	25.3	120.000	V	7.9	14.7	40.0
87.480000	30.5	120.000	V	9.3	9.5	40.0
424.920000	30.5	120.000	V	17.6	15.5	46.0

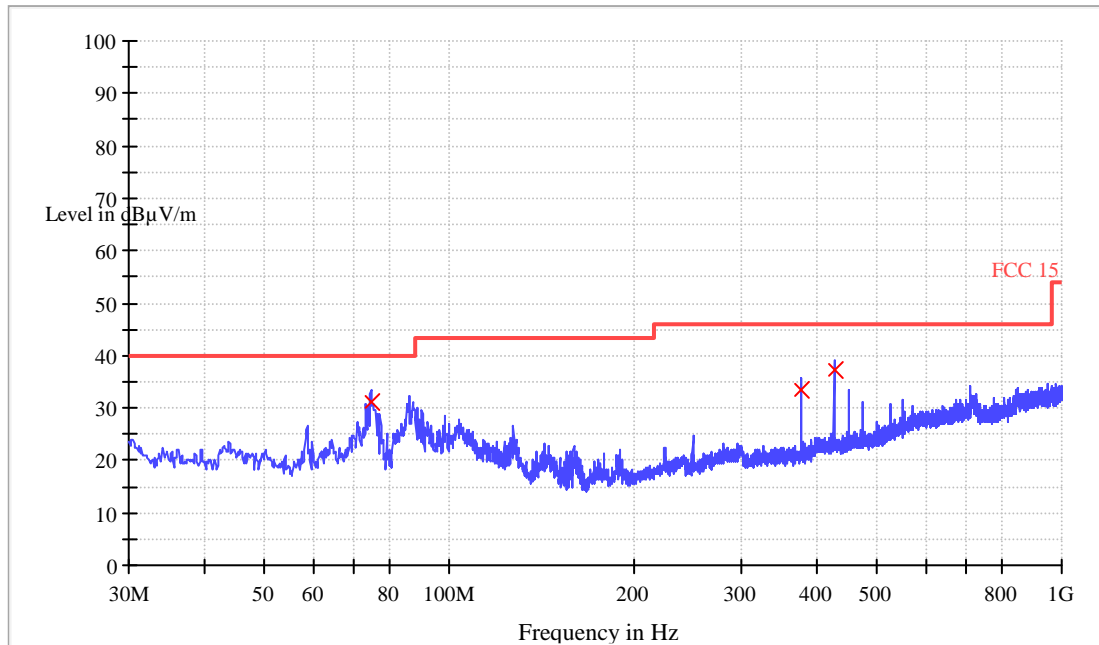
802.11an(HT 40)
Channel 38: 5190 MHz:
Horizontal



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
74.520000	19.0	120.000	H	7.9	21.0	40.0
710.760000	31.4	120.000	H	22.3	14.6	46.0
844.800000	32.4	120.000	H	24.2	13.6	46.0

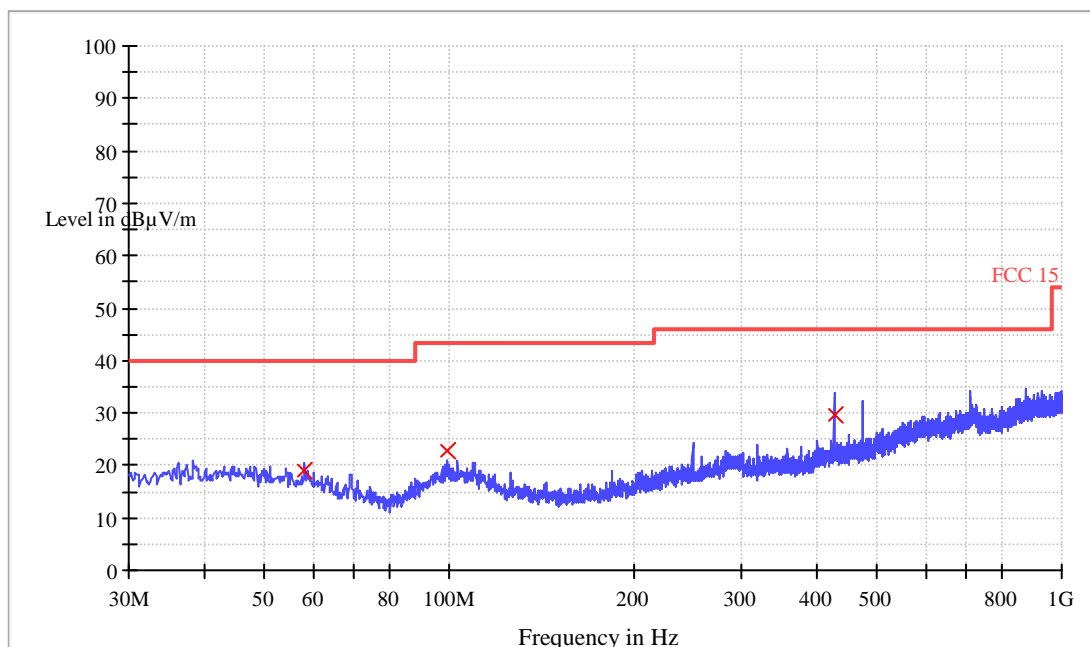
Vertical



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
74.520000	31.4	120.000	V	7.9	8.6	40.0
374.920000	33.5	120.000	V	16.1	12.5	46.0
425.040000	37.1	120.000	V	17.6	8.9	46.0

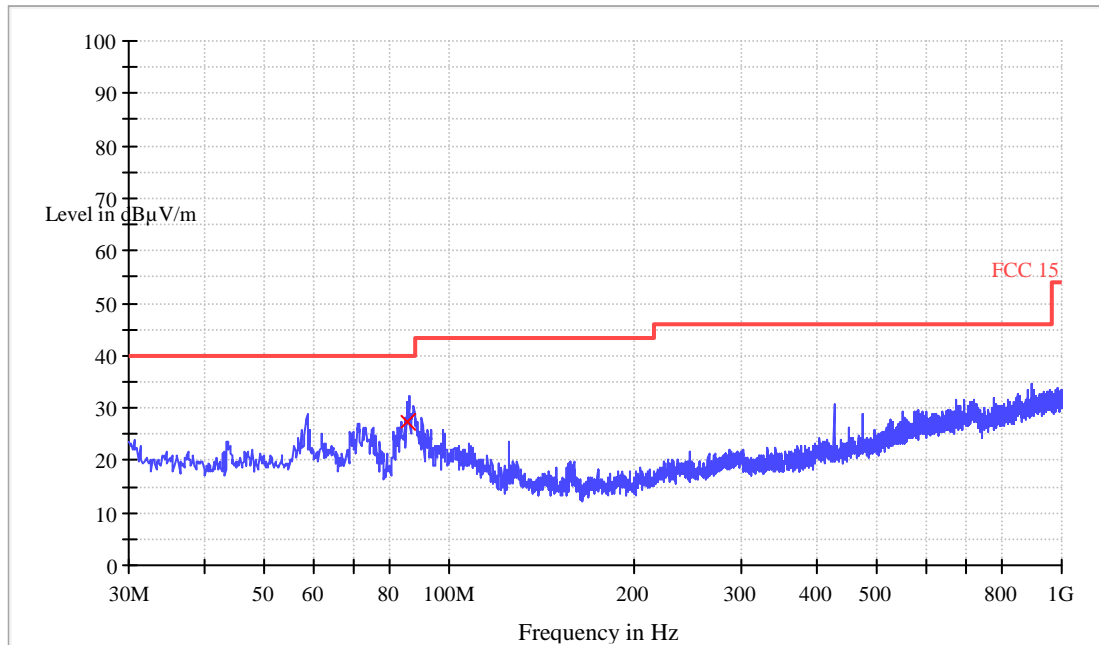
Channel 46: 5230 MHz:
Horizontal



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
58.080000	19.0	120.000	H	11.9	21.0	40.0
99.360000	22.8	120.000	H	12.8	20.7	43.5
424.920000	29.8	120.000	H	17.6	16.2	46.0

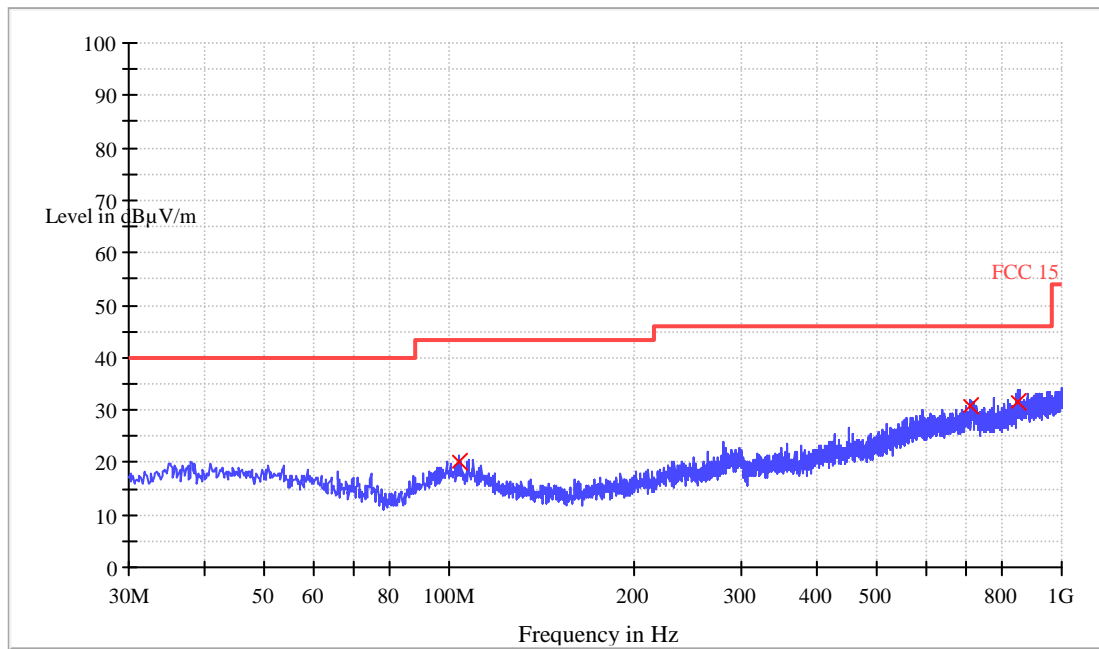
Vertical



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
58.640000	23.4	120.000	V	11.9	16.6	40.0
85.400000	27.6	120.000	V	8.7	12.4	40.0

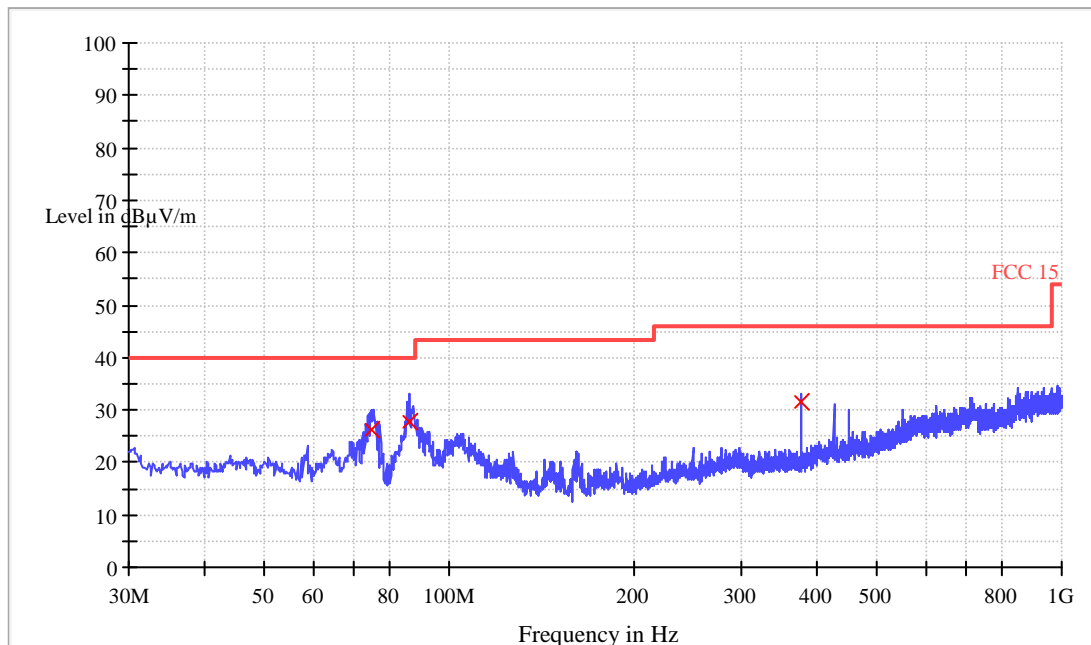
802.11ac(HT 40)
Channel 38: 5190 MHz:
Horizontal



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
103.640000	20.3	120.000	H	12.6	23.2	43.5
711.480000	30.8	120.000	H	22.3	15.2	46.0
845.520000	31.6	120.000	H	24.2	14.4	46.0

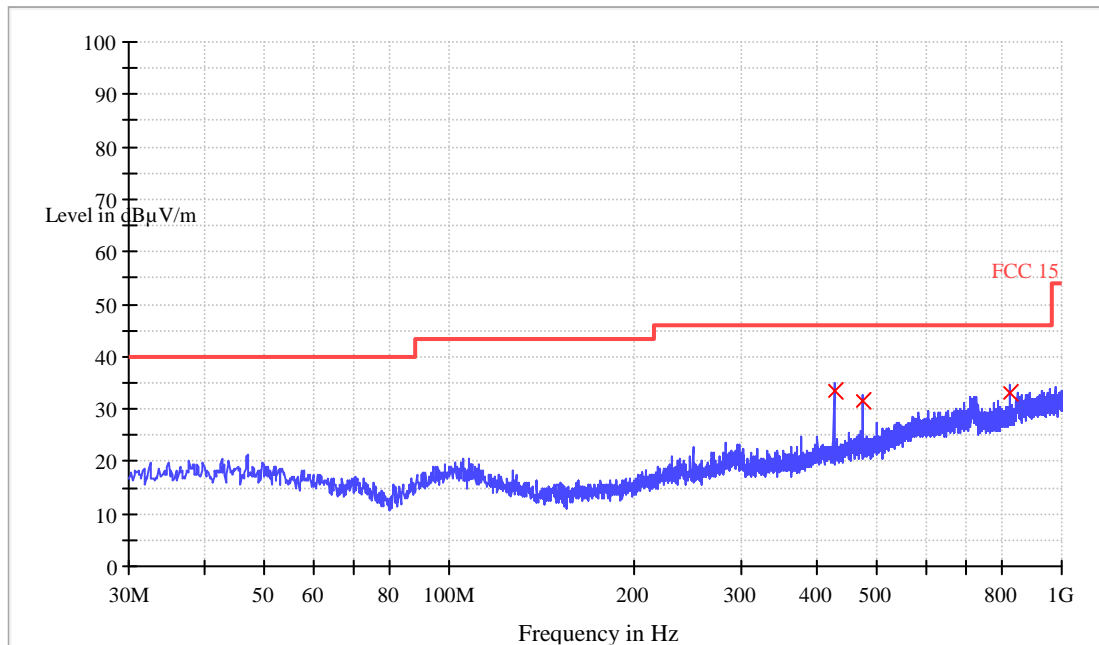
Vertical



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
74.520000	26.4	120.000	V	7.9	13.6	40.0
86.000000	27.7	120.000	V	8.9	12.3	40.0
374.920000	31.6	120.000	V	16.1	14.4	46.0

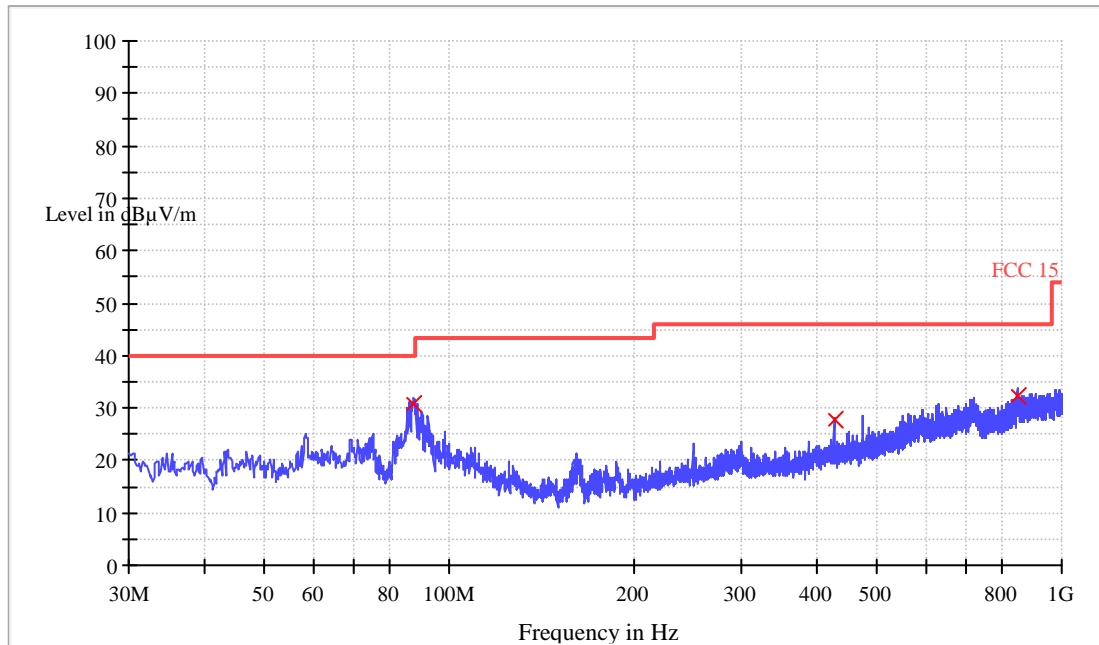
Channel 46: 5230 MHz:
Horizontal



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
424.920000	33.4	120.000	H	17.6	12.6	46.0
475.040000	31.5	120.000	H	18.6	14.5	46.0
825.120000	33.1	120.000	H	23.8	13.0	46.0

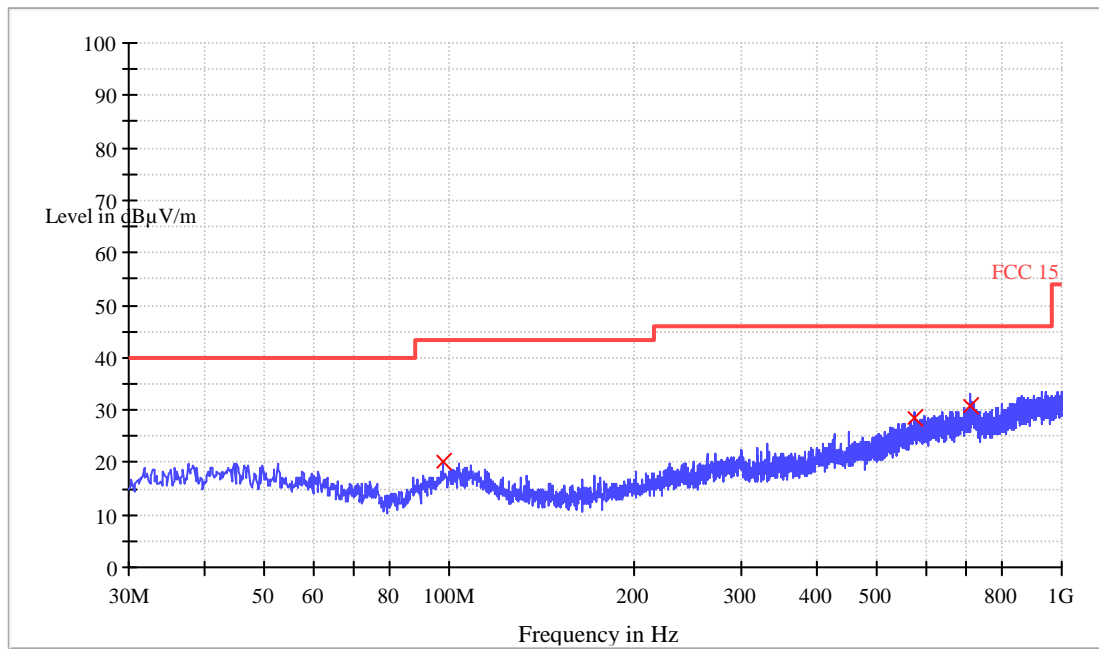
Vertical



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
87.600000	30.8	120.000	V	9.4	9.2	40.0
424.920000	27.8	120.000	V	17.6	18.2	46.0
845.240000	32.5	120.000	V	24.2	13.5	46.0

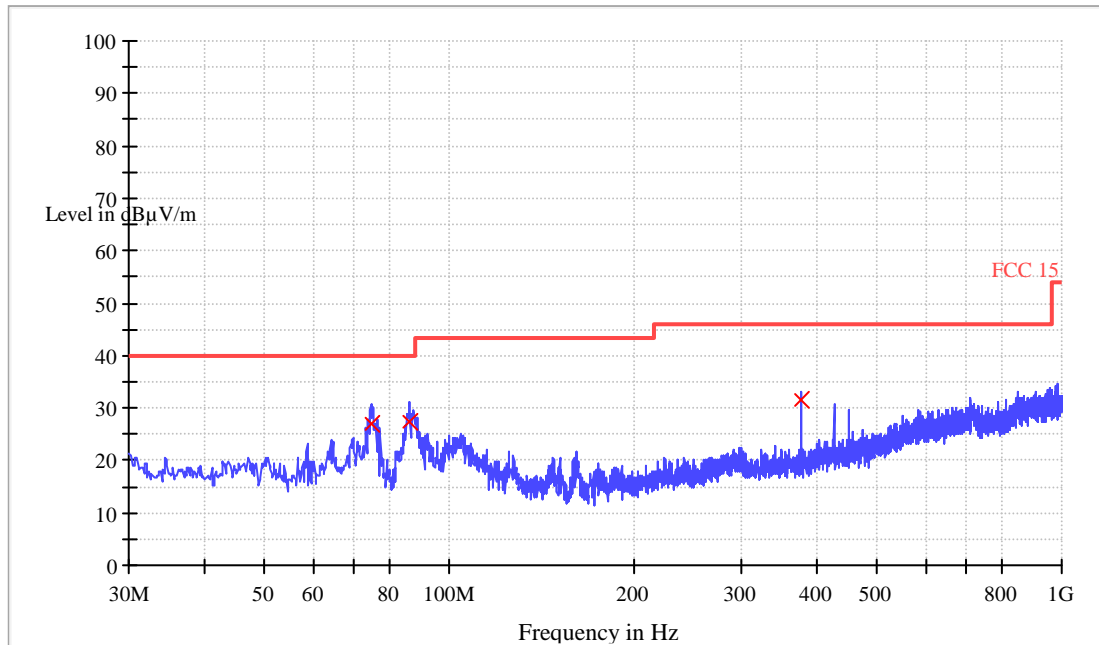
802.11ac(HT 80)
Channel 42: 5210 MHz:
Horizontal



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
97.760000	20.1	120.000	H	12.5	23.4	43.5
575.120000	28.5	120.000	H	20.9	17.5	46.0
710.920000	30.7	120.000	H	22.3	15.3	46.0

Vertical



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
74.520000	27.2	120.000	V	7.9	12.8	40.0
86.000000	27.5	120.000	V	8.9	12.5	40.0
374.920000	31.5	120.000	V	16.1	14.5	46.0

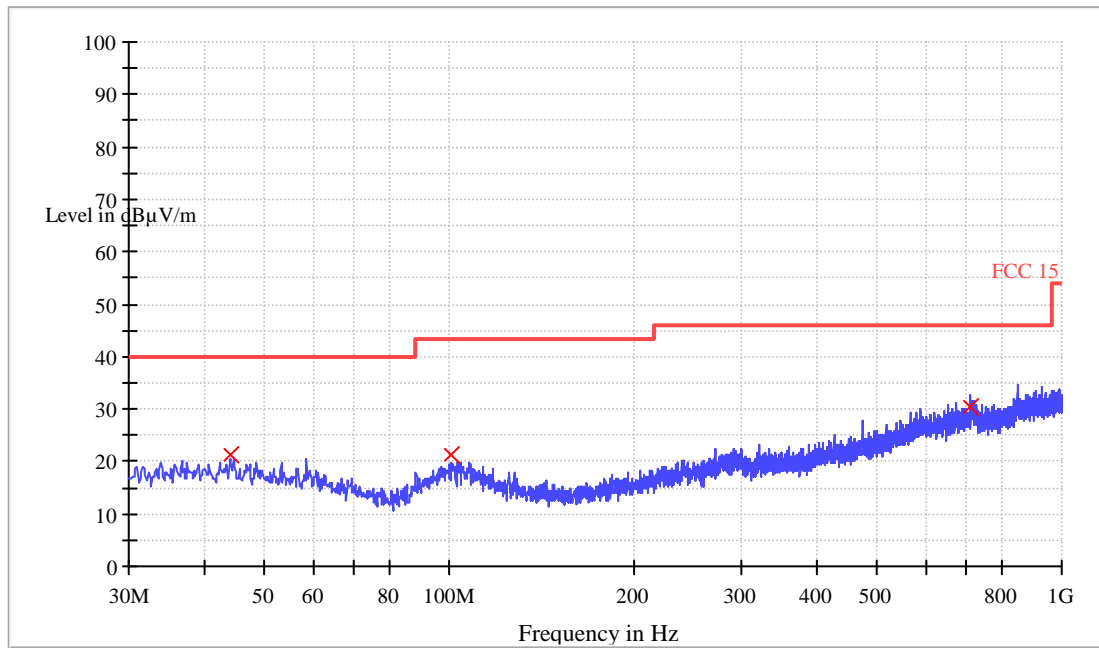
Result as follows:

Band IV 5725 MHz to 5850 MHz

802.11an(HT 20)

Channel 149: 5745 MHz:

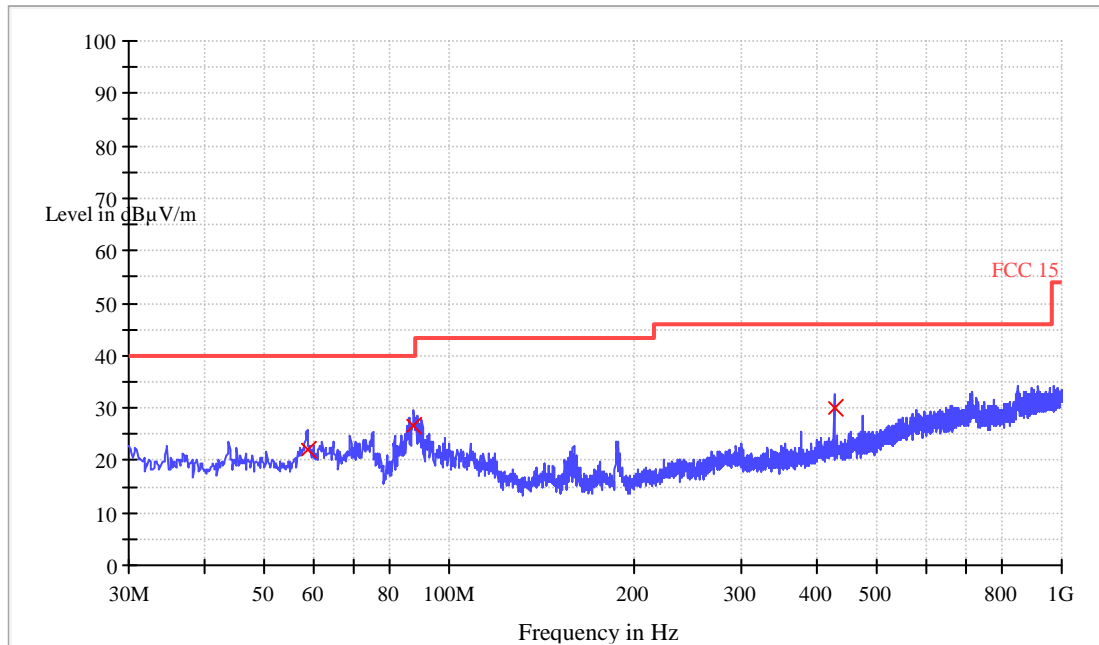
Horizontal



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
43.960000	21.4	120.000	H	13.8	18.6	40.0
101.000000	21.3	120.000	H	12.8	22.2	43.5
709.720000	30.6	120.000	H	22.3	15.4	46.0

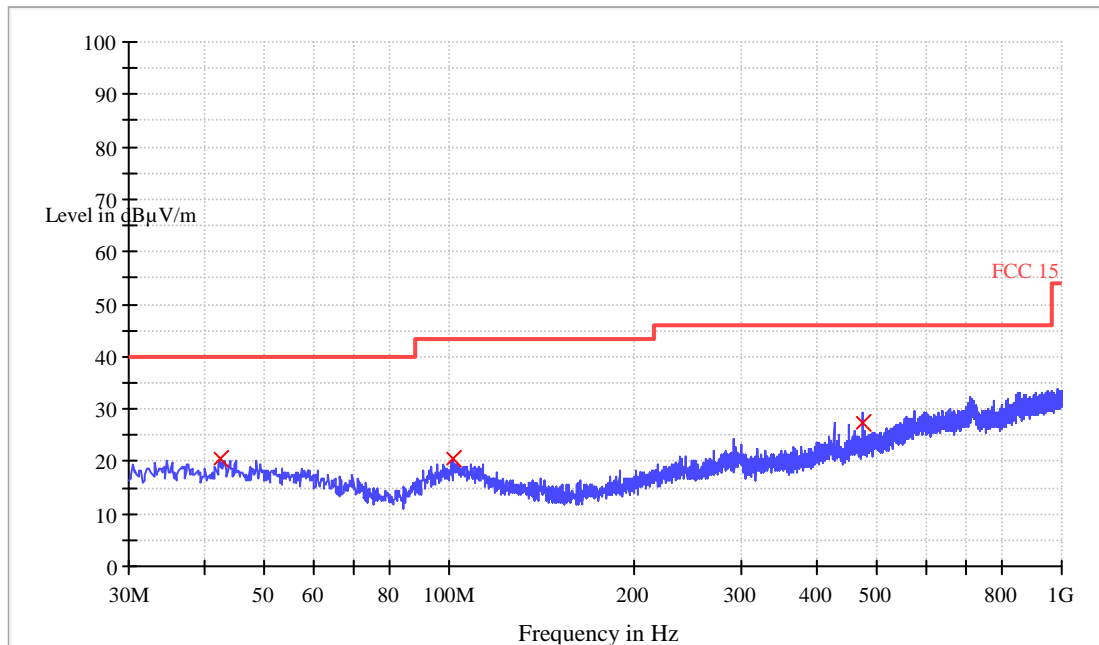
Vertical



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
58.640000	27.6	120.000	V	11.9	12.4	40.0
87.480000	27.6	120.000	V	9.3	12.4	40.0
424.920000	33.6	120.000	V	17.6	12.4	46.0

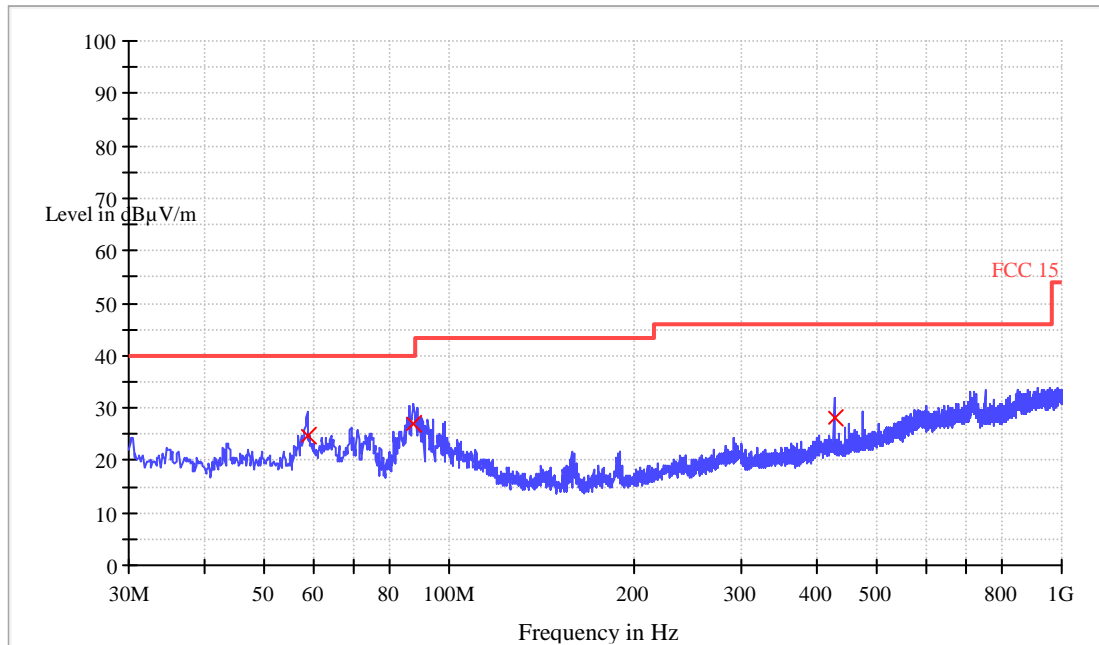
Channel 157: 5785 MHz:
Horizontal



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
42.200000	20.4	120.000	H	13.6	19.6	40.0
101.720000	20.5	120.000	H	12.8	23.0	43.5
475.040000	27.2	120.000	H	18.6	18.8	46.0

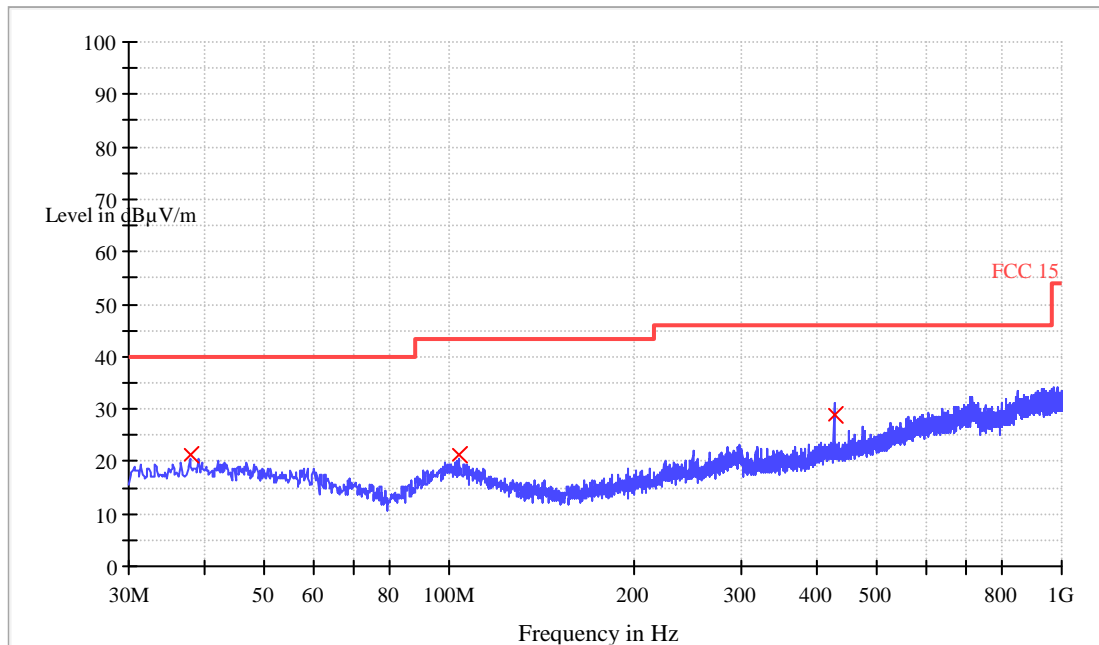
Vertical



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
42.200000	20.4	120.000	H	13.6	19.6	40.0
101.720000	20.5	120.000	H	12.8	23.0	43.5
475.040000	27.2	120.000	H	18.6	18.8	46.0

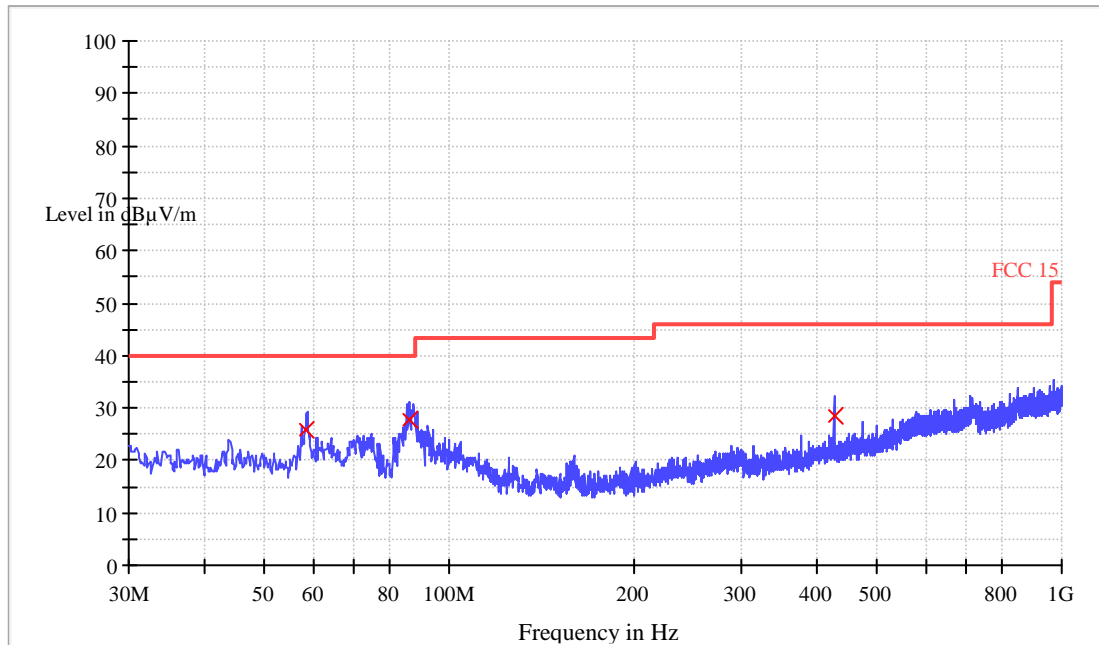
Channel 165: 5825 MHz:
Horizontal



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
37.800000	21.2	120.000	H	13.4	18.8	40.0
104.080000	21.2	120.000	H	12.6	22.3	43.5
424.920000	28.9	120.000	H	17.6	17.1	46.0

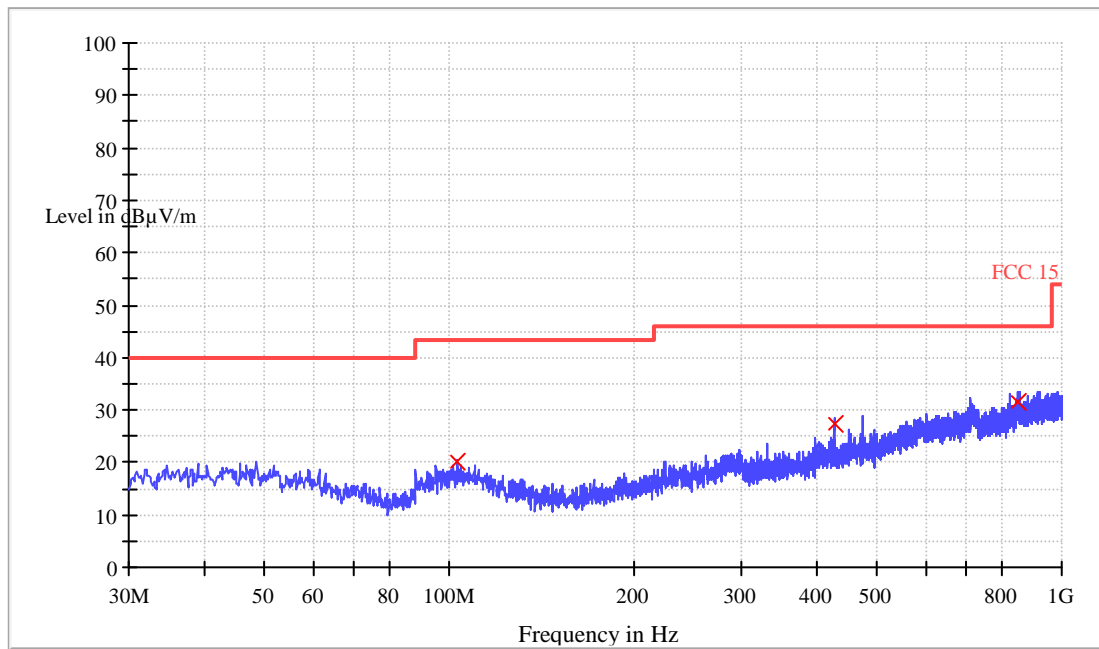
Vertical



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
58.520000	25.9	120.000	V	11.9	14.2	40.0
86.000000	27.7	120.000	V	8.9	12.3	40.0
424.920000	28.6	120.000	V	17.6	17.4	46.0

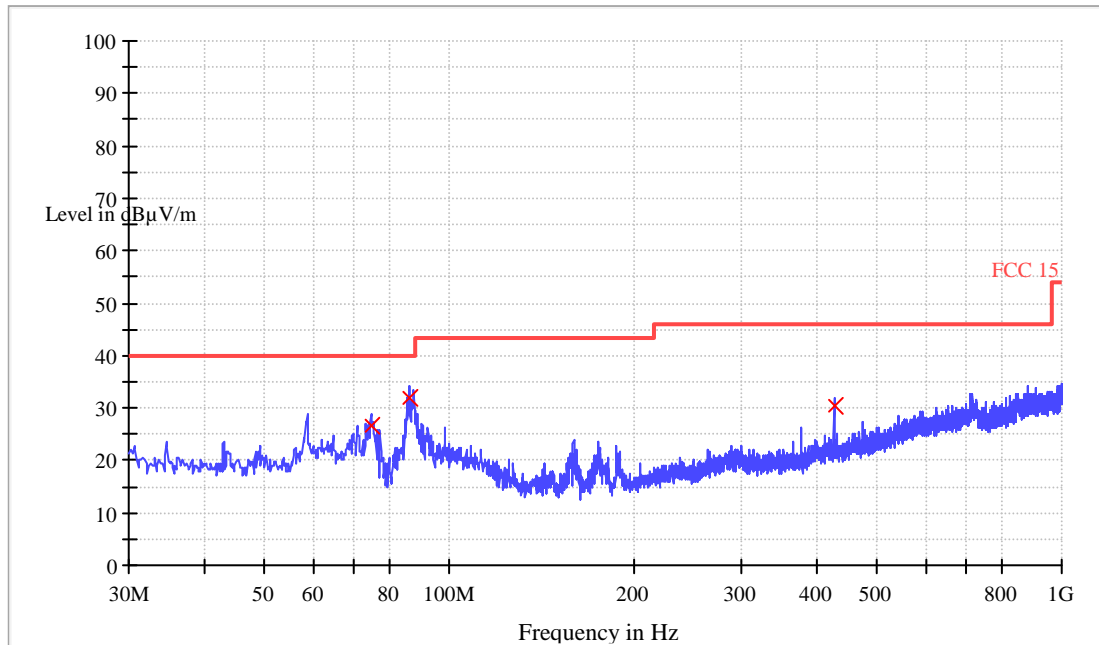
802.11ac(HT 20)
Channel 149: 5745 MHz:
Horizontal



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
103.320000	20.3	120.000	H	12.7	23.2	43.5
424.920000	27.3	120.000	H	17.6	18.7	46.0
849.200000	31.6	120.000	H	24.3	14.4	46.0

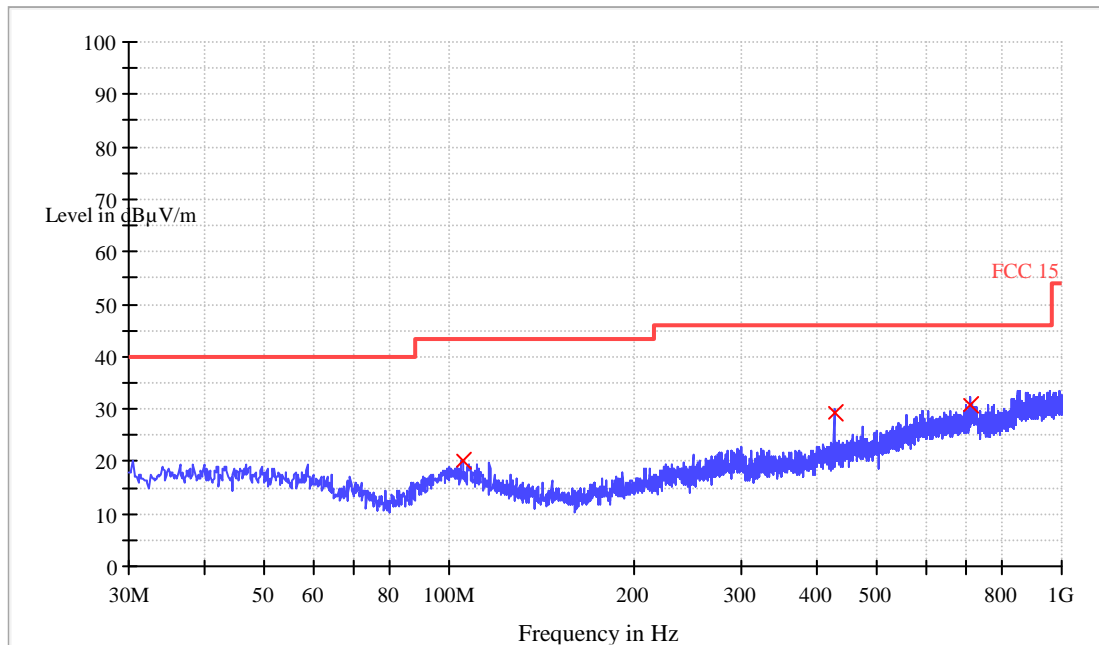
Vertical



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
74.520000	26.8	120.000	V	7.9	13.2	40.0
86.000000	32.1	120.000	V	8.9	7.9	40.0
425.040000	30.5	120.000	V	17.6	15.5	46.0

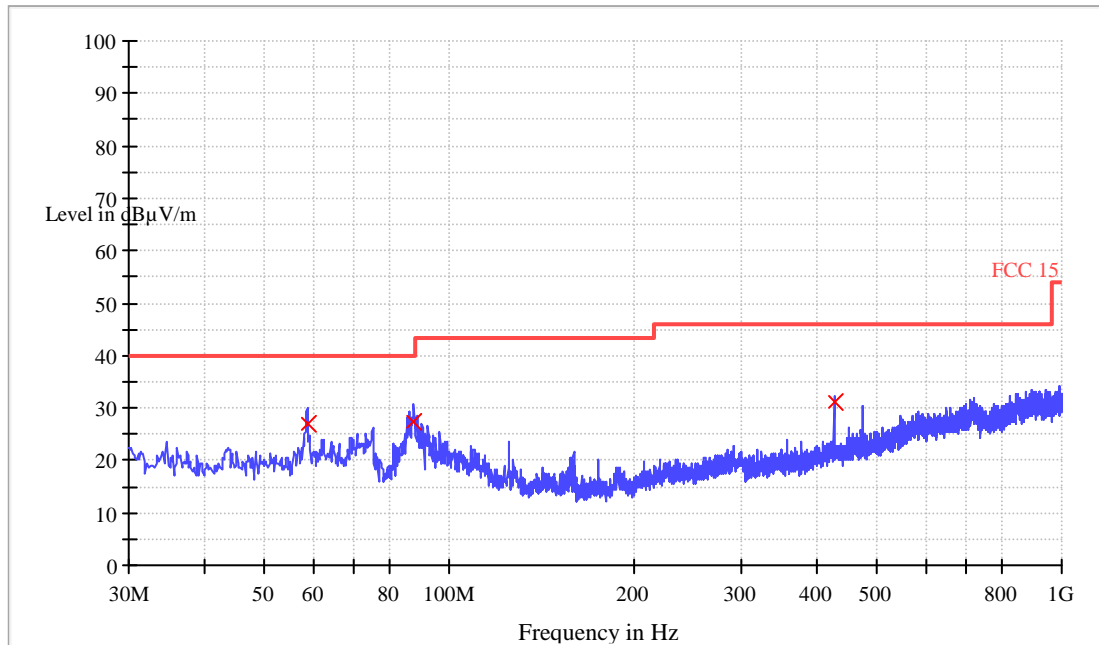
Channel 157: 5785 MHz:
Horizontal



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
104.960000	20.2	120.000	H	12.5	23.3	43.5
424.920000	29.4	120.000	H	17.6	16.6	46.0
709.880000	30.7	120.000	H	22.3	15.3	46.0

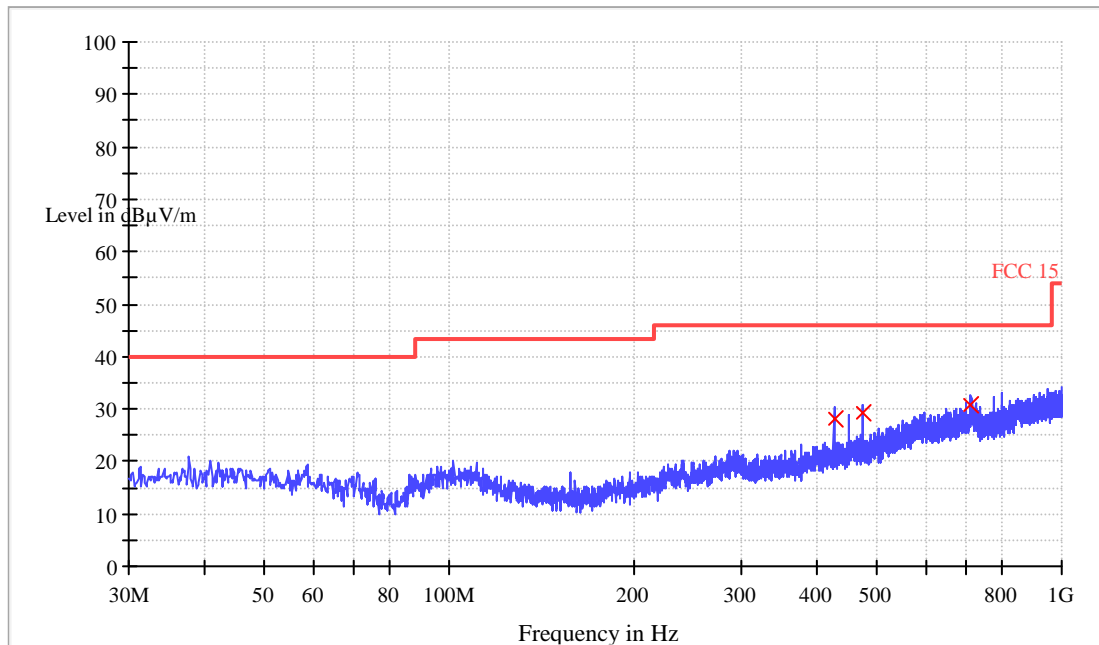
Vertical



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
58.640000	26.9	120.000	V	11.9	13.1	40.0
87.600000	27.4	120.000	V	9.4	12.6	40.0
424.920000	31.3	120.000	V	17.6	14.7	46.0

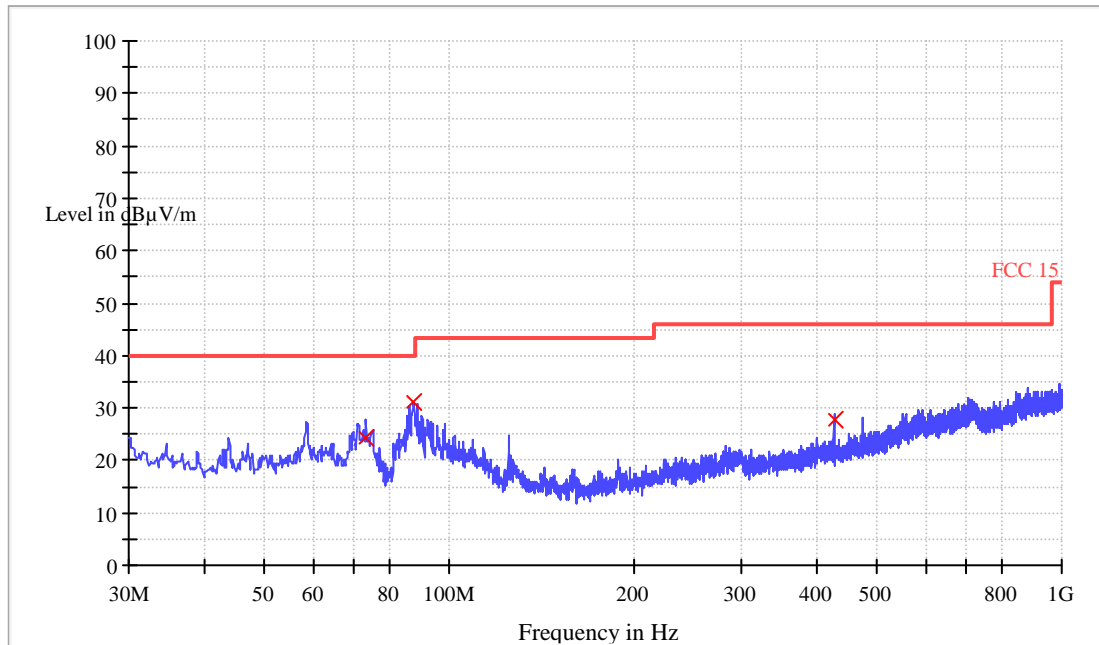
Channel 165: 5825 MHz:
Horizontal



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
424.920000	28.1	120.000	H	17.6	17.9	46.0
475.040000	29.2	120.000	H	18.6	16.8	46.0
711.480000	30.8	120.000	H	22.3	15.2	46.0

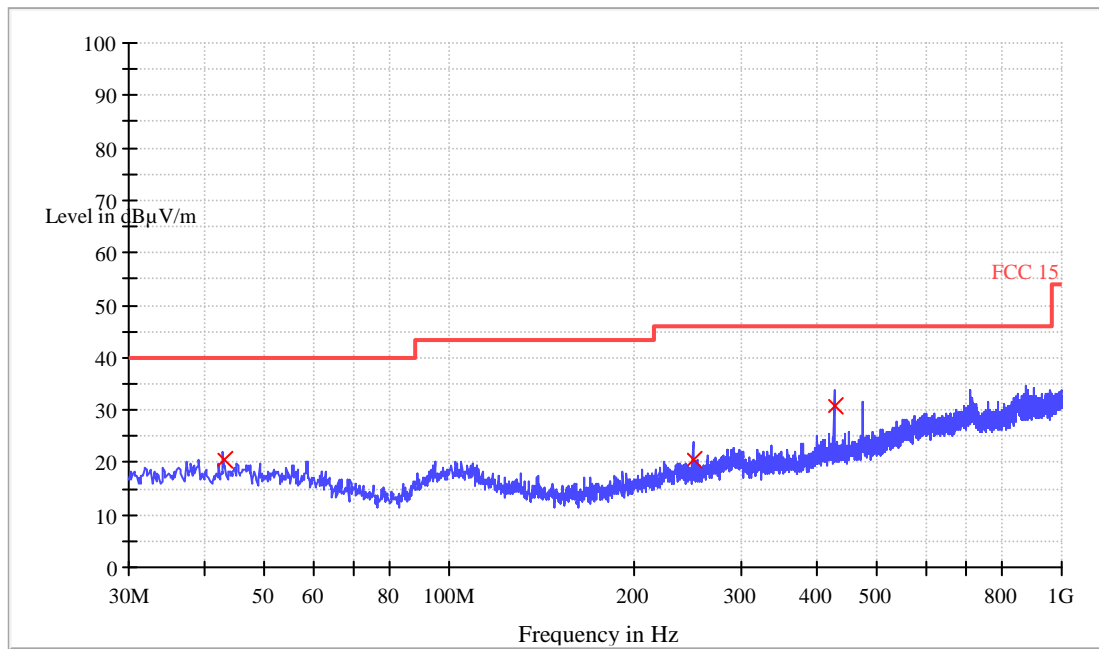
Vertical



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
73.080000	24.5	120.000	V	8.2	15.5	40.0
87.480000	31.3	120.000	V	9.3	8.7	40.0
424.920000	27.6	120.000	V	17.6	18.4	46.0

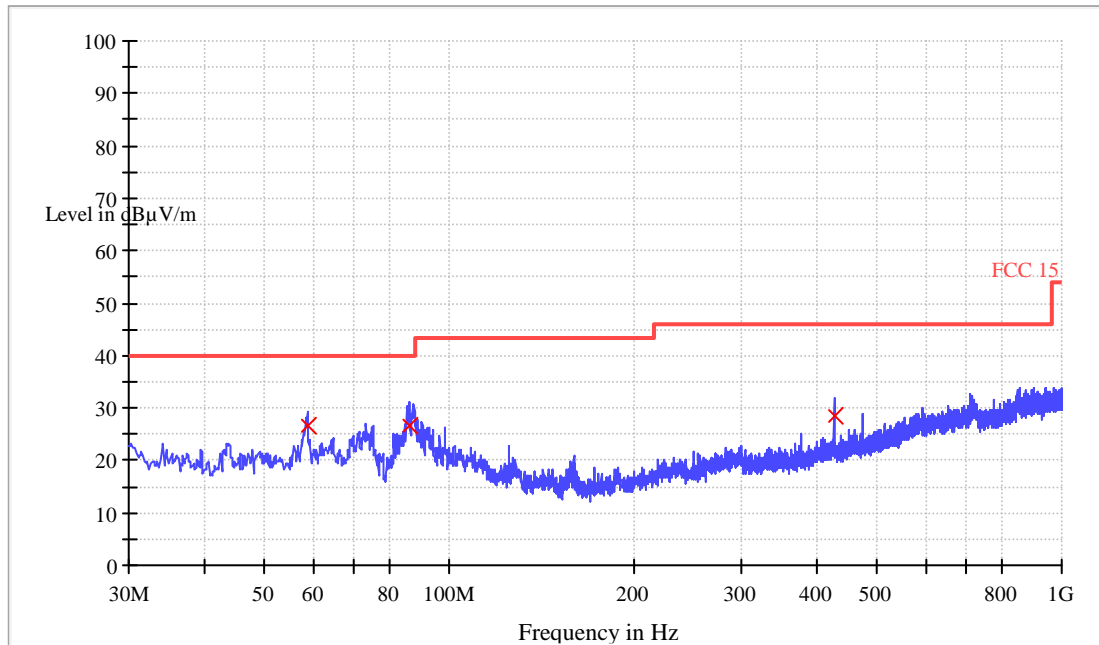
802.11an(HT 40)
Channel 151: 5755 MHz:
Horizontal



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
42.800000	20.5	120.000	H	13.7	19.6	40.0
249.880000	20.4	120.000	H	12.7	25.6	46.0
425.040000	31.0	120.000	H	17.6	15.0	46.0
425.040000	31.0	120.000	H	17.6	15.0	46.0

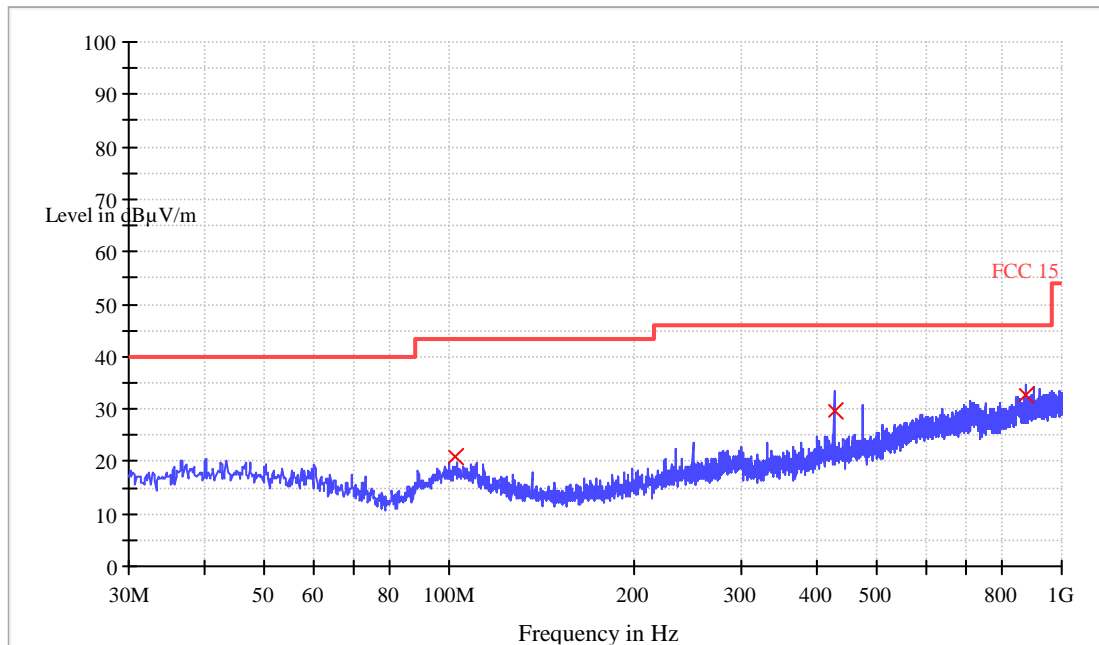
Vertical



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
58.640000	26.7	120.000	V	11.9	13.3	40.0
86.000000	26.8	120.000	V	8.9	13.2	40.0
425.040000	28.7	120.000	V	17.6	17.3	46.0
425.040000	28.7	120.000	V	17.6	17.3	46.0

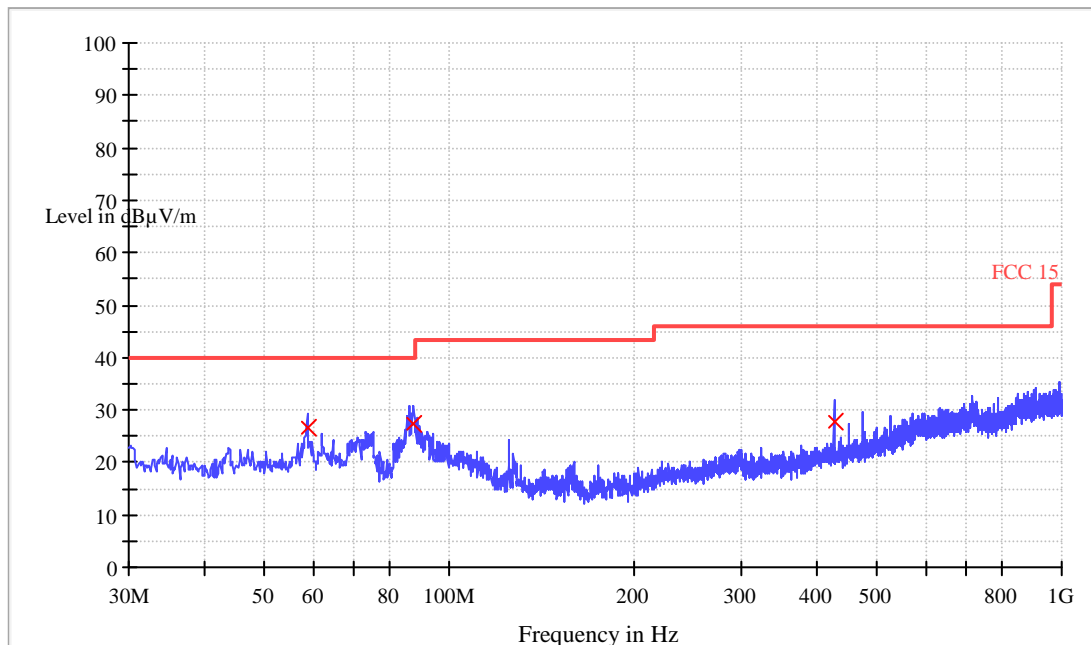
Channel 159: 5795 MHz:
Horizontal



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
42.800000	20.5	120.000	H	13.7	19.6	40.0
249.880000	20.4	120.000	H	12.7	25.6	46.0
425.040000	31.0	120.000	H	17.6	15.0	46.0
425.040000	31.0	120.000	H	17.6	15.0	46.0

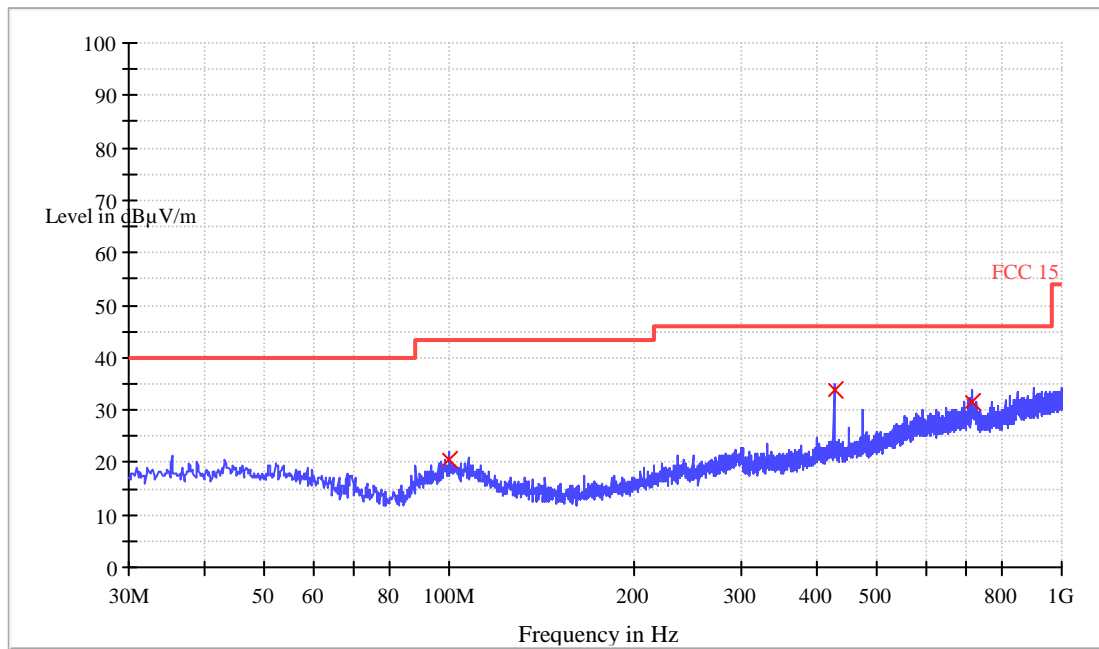
Vertical



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
58.640000	26.5	120.000	V	11.9	13.6	40.0
87.320000	27.4	120.000	V	9.3	12.6	40.0
424.920000	27.6	120.000	V	17.6	18.4	46.0

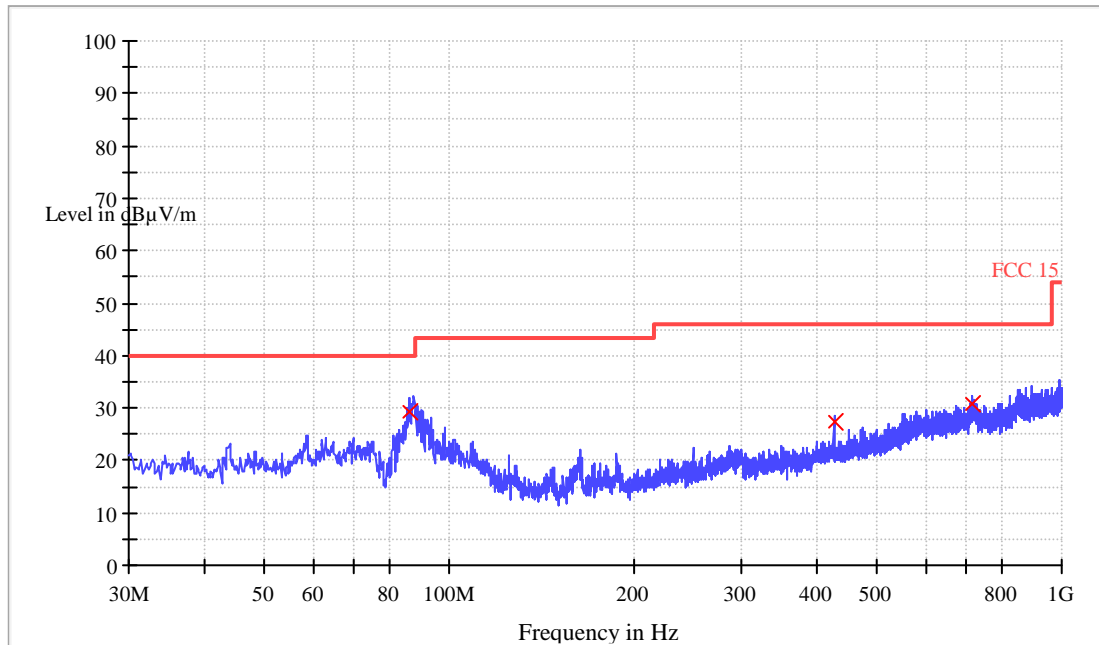
802.11ac(HT 40)
Channel 151: 5755 MHz:
Horizontal



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
100.120000	20.6	120.000	H	12.9	22.9	43.5
425.040000	33.9	120.000	H	17.6	12.1	46.0
711.800000	31.7	120.000	H	22.3	14.3	46.0

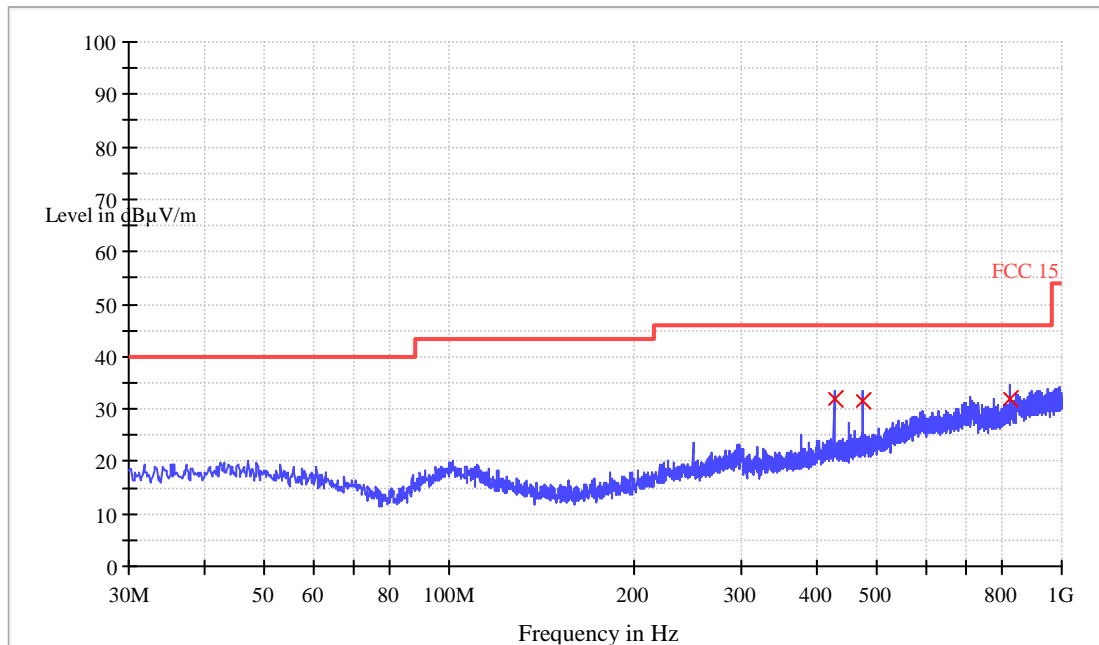
Vertical



QP

Frequency (MHz)	Quasi Peak (dBµV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
86.000000	29.4	120.000	V	8.9	10.6	40.0
425.040000	27.3	120.000	V	8.9	18.7	46.0
713.560000	30.7	120.000	V	22.3	15.3	46.0

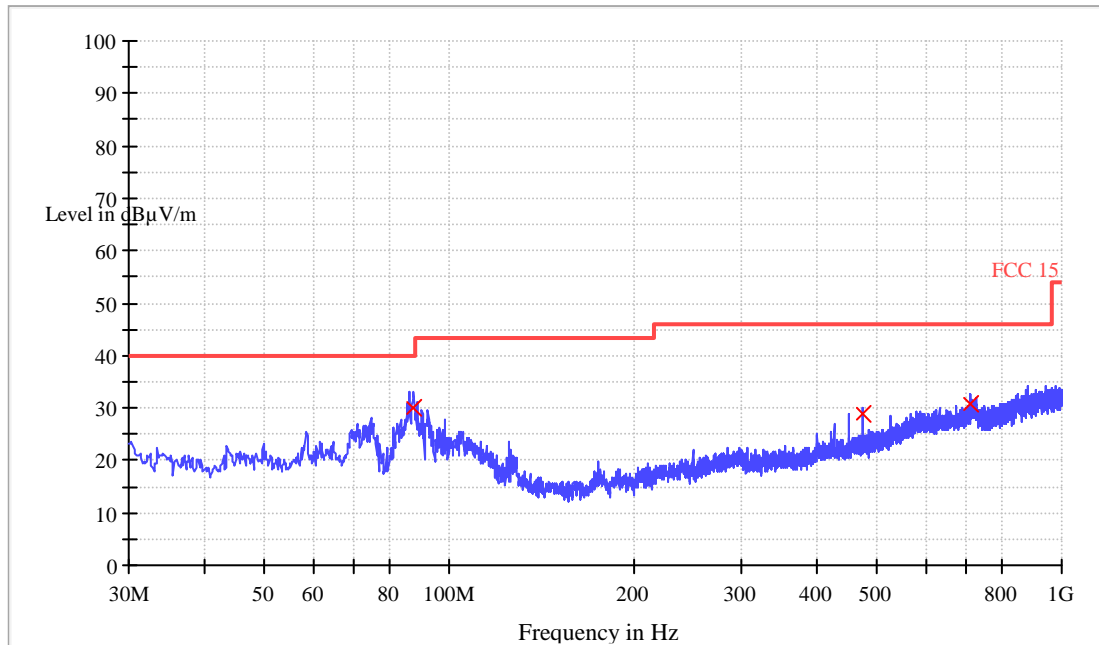
Channel 159: 5795 MHz:
Horizontal



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
425.040000	31.8	120.000	H	17.6	14.2	46.0
475.040000	31.7	120.000	H	18.6	14.3	46.0
825.120000	32.1	120.000	H	23.8	14.0	46.0

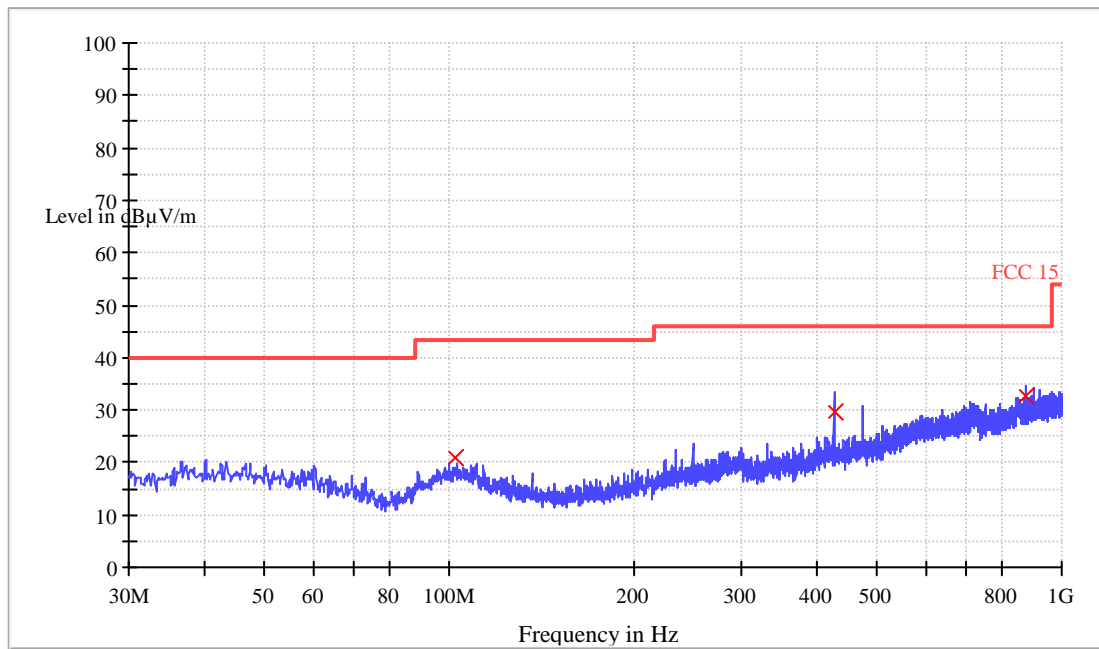
Vertical



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
87.600000	30.2	120.000	V	9.4	9.8	40.0
475.040000	28.9	120.000	V	18.6	17.1	46.0
710.320000	30.6	120.000	V	22.3	15.4	46.0

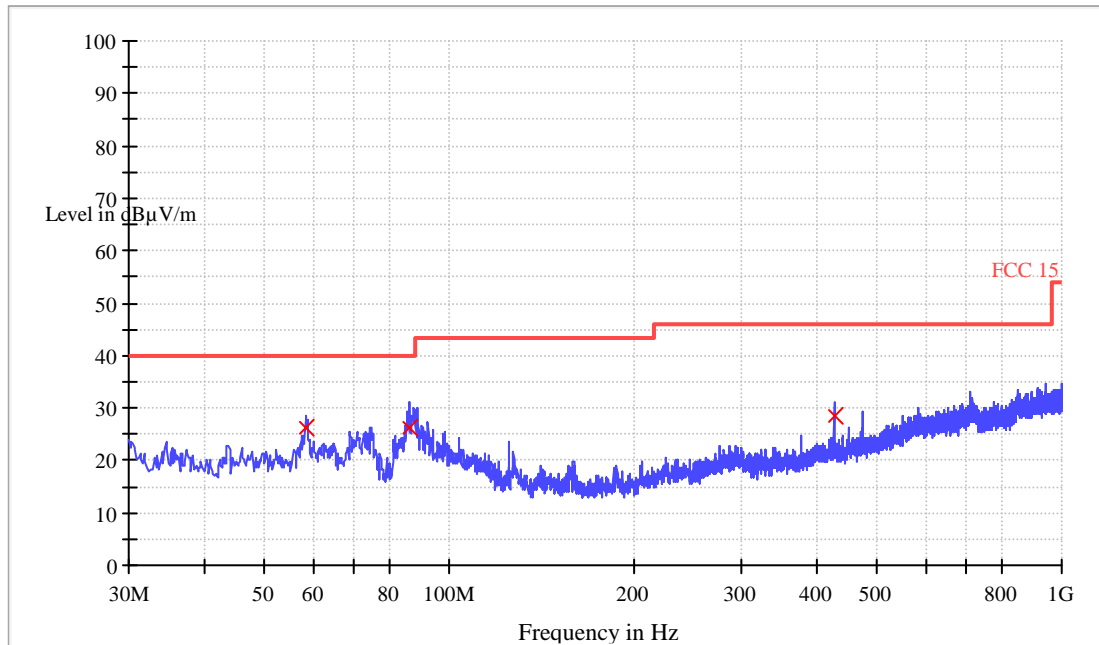
802.11ac(HT 80)
Channel 155: 5775 MHz:
Horizontal



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
42.800000	20.5	120.000	H	13.7	19.6	40.0
249.880000	20.4	120.000	H	12.7	25.6	46.0
425.040000	31.0	120.000	H	17.6	15.0	46.0
425.040000	31.0	120.000	H	17.6	15.0	46.0

Vertical



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
42.800000	20.5	120.000	H	13.7	19.6	40.0
249.880000	20.4	120.000	H	12.7	25.6	46.0
425.040000	31.0	120.000	H	17.6	15.0	46.0
425.040000	31.0	120.000	H	17.6	15.0	46.0

1~40 GHz Radiated Emissions.

Result follows:

Band I 5150 MHz to 5250 MHz

802.11an(HT 20)

Channel 36: 5180 MHz:

Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	4766.00	35.3	/	-8.8	74.0	/	54.0	-18.7
H	10358.40	46.0	/	-4.6	74.0	/	54.0	-8.0
H	14647.20	35.4	/	-2.2	74.0	/	54.0	-18.6
V	4823.60	45.4	/	-8.8	74.0	/	54.0	-8.6
V	10359.60	49.3	/	-4.6	74.0	/	54.0	-4.7
V	15595.60	35.8	/	-8.8	74.0	/	54.0	-18.2

Channel 44: 5220 MHz:

Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	4775.60	37.4	/	-8.8	74.0	/	54.0	-16.6
H	10439.20	44.1	/	-4.6	74.0	/	54.0	-9.9
H	15590.80	36.8	/	-1.2	74.0	/	54.0	-17.2
V	4604.00	34.7	/	-8.8	74.0	/	54.0	-19.3
V	10432.40	46.5	/	-4.6	74.0	/	54.0	-7.5
V	12681.60	34.7	/	-8.8	74.0	/	54.0	-19.3

Channel 48: 5240 MHz:

Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	2412.00	51.3	/	-12.8	74.0	/	54.0	-2.7
H	7237.60	36.5	/	-6.1	74.0	/	54.0	-17.5
H	10470.00	42.2	/	-4.6	74.0	/	54.0	-11.8
V	4823.60	45.6	/	-8.8	74.0	/	54.0	-8.4
V	7765.60	37.4	/	-6.0	74.0	/	54.0	-16.6
V	10479.20	43.4	/	-4.6	74.0	/	54.0	-10.6

802.11ac(HT 20)

Channel 36: 5180 MHz:

Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	1712.80	36.8	/	-15.3	74.0	/	54.0	-17.2
H	4802.80	38.2	/	-6.1	74.0	/	54.0	-15.8
H	10361.20	46.8	/	-4.6	74.0	/	54.0	-7.2
V	4404.40	34.2	/	-8.8	74.0	/	54.0	-19.8
V	7237.60	39.9	/	-6.1	74.0	/	54.0	-14.1
V	10359.20	47.5	/	-8.8	74.0	/	54.0	-6.5

Channel 44: 5220 MHz:

Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	4823.60	39.0	/	-8.8	74.0	/	54.0	-15.0
H	7736.80	35.6	/	-6.1	74.0	/	54.0	-18.4
H	10436.40	47.6	/	-4.6	74.0	/	54.0	-6.4
V	4500.00	34.9	/	-8.8	74.0	/	54.0	-19.1
V	7714.00	36.8	/	-6.1	74.0	/	54.0	-17.2
V	10441.20	44.6	/	-4.6	74.0	/	54.0	-9.4

Channel 48: 5240 MHz:

Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	2415.60	52.2	/	-12.8	74.0	/	54.0	-1.8
H	5240.80	36.9	/	-8.5	74.0	/	54.0	-17.1
H	10476.40	45.8	/	-4.6	74.0	/	54.0	-8.2
V	2412.40	51.1	/	-12.8	74.0	/	54.0	-2.9
V	7720.40	36.8	/	-6.1	74.0	/	54.0	-17.2
V	10472.80	40.4	/	-4.6	74.0	/	54.0	-13.6

802.11an(HT 40)

Channel 38: 5190 MHz:

Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	2410.00	45.4	/	-12.8	74.0	/	54.0	-8.6
H	7768.00	35.7	/	-6.0	74.0	/	54.0	-18.3
H	10382.00	48.2	/	-4.6	74.0	/	54.0	-5.8
V	2406.40	38.9	/	-12.8	74.0	/	54.0	-15.1
V	7809.20	36.4	/	-6.1	74.0	/	54.0	-17.6
V	10386.00	48.8	/	-4.6	74.0	/	54.0	-5.2

Channel 46: 5230 MHz:

Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	4717.20	35.2	/	-8.8	74.0	/	54.0	-18.8
H	7634.80	36.6	/	-6.0	74.0	/	54.0	-17.4
H	10456.80	44.5	/	-4.6	74.0	/	54.0	-9.5
V	2415.60	50.8	/	-12.8	74.0	/	54.0	-3.2
V	7237.60	42.2	/	-6.1	74.0	/	54.0	-11.8
V	10453.20	42.9	/	-4.6	74.0	/	54.0	-11.1

802.11ac(HT 40)

Channel 38: 5190 MHz:

Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	4764.40	36.9	/	-8.8	74.0	/	54.0	-17.1
H	7700.00	37.0	/	-6.0	74.0	/	54.0	-17.0
H	10380.80	51.7	/	-4.6	74.0	/	54.0	-2.3
V	2414.80	51.1	/	-12.8	74.0	/	54.0	-2.9
V	7746.80	35.7	/	-6.1	74.0	/	54.0	-18.3
V	10380.80	42.8	/	-4.6	74.0	/	54.0	-11.2

Channel 46: 5230 MHz:

Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	4823.60	37.0	/	-8.8	74.0	/	54.0	-17.0
H	7696.80	36.1	/	-6.0	74.0	/	54.0	-17.9
H	10300.40	35.4	/	-4.6	74.0	/	54.0	-18.6
V	4759.20	34.0	/	-8.8	74.0	/	54.0	-20.0
V	7612.80	35.7	/	-6.1	74.0	/	54.0	-18.3
V	12652.40	36.1	/	-4.5	74.0	/	54.0	-17.9

802.11ac(HT 80)

Channel 42: 5210 MHz:

Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	3115.60	34.3	/	-10.9	74.0	/	54.0	-19.7
H	4773.60	37.0	/	-8.8	74.0	/	54.0	-17.0
H	10403.20	45.0	/	-4.6	74.0	/	54.0	-9.0
V	3472.80	34.3	/	-10.1	74.0	/	54.0	-19.7
V	7628.00	36.2	/	-6.1	74.0	/	54.0	-17.8
V	10405.20	44.0	/	-4.5	74.0	/	54.0	-10.0

Result as follows:

Band IV 5725 MHz to 5850 MHz

802.11an(HT 20)

Channel 149: 5745 MHz:

Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	4739.60	34.7	/	-8.8	74.0	/	54.0	-19.3
H	9948.00	35.9	/	-4.8	74.0	/	54.0	-18.1
H	14603.00	34.6	/	-4.6	74.0	/	54.0	-19.4
V	3830.00	34.8	/	-9.7	74.0	/	54.0	-19.2
V	7238.00	37.0	/	-6.1	74.0	/	54.0	-17.0
V	10393.60	35.6	/	-4.5	74.0	/	54.0	-18.4

Channel 157: 5785 MHz:

Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	4823.60	40.5	/	-8.8	74.0	/	54.0	-13.5
H	7784.40	36.5	/	-6.0	74.0	/	54.0	-17.5
H	10228.40	35.8	/	-4.7	74.0	/	54.0	-18.2
V	3856.00	36.0	/	-9.7	74.0	/	54.0	-18.0
V	7238.00	41.3	/	-6.1	74.0	/	54.0	-12.7
V	12656.00	34.9	/	-4.5	74.0	/	54.0	-19.1

Channel 165: 5825 MHz:

Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	4547.20	34.6	/	-8.7	74.0	/	54.0	-19.4
H	7764.00	36.7	/	-6.0	74.0	/	54.0	-17.3
H	11651.20	36.3	/	-4.8	74.0	/	54.0	-17.7
V	2416.40	42.6	/	-12.8	74.0	/	54.0	-11.4
V	7236.40	36.0	/	-6.1	74.0	/	54.0	-18.0
V	10263.60	34.3	/	-4.7	74.0	/	54.0	-19.7

802.11ac(HT 20)

Channel 149: 5745 MHz:

Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	3471.60	34.6	/	-8.7	74.0	/	54.0	-19.4
H	7237.60	37.6	/	-6.1	74.0	/	54.0	-16.4
H	9351.60	35.9	/	-5.6	74.0	/	54.0	-18.1
V	2412.40	50.4	/	-12.8	74.0	/	54.0	-3.6
V	3830.00	36.2	/	-9.7	74.0	/	54.0	-17.8
V	4824.00	41.5	/	-8.8	74.0	/	54.0	-12.5

Channel 157: 5785 MHz:

Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	3856.40	36.8	/	-9.7	74.0	/	54.0	-17.2
H	7784.00	36.6	/	-6.0	74.0	/	54.0	-17.4
H	9938.40	36.4	/	-4.8	74.0	/	54.0	-17.6
V	3857.20	37.0	/	-9.7	74.0	/	54.0	-17.0
V	7238.40	41.1	/	-6.1	74.0	/	54.0	-12.9
V	10398.80	36.2	/	-8.8	74.0	/	54.0	-17.8

Channel 165: 5825 MHz:

Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	4718.40	34.5	/	-8.8	74.0	/	54.0	-19.5
H	10297.60	35.9	/	-4.7	74.0	/	54.0	-18.1
H	11661.20	38.1	/	-4.8	74.0	/	54.0	-15.9
V	3883.60	37.4	/	-9.7	74.0	/	54.0	-16.6
V	7742.00	36.1	/	-6.0	74.0	/	54.0	-17.9
V	11649.60	36.7	/	-8.8	74.0	/	54.0	-17.3

802.11an(HT 40)

Channel 151: 5755 MHz:

Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	4823.60	43.9	/	-8.8	74.0	/	54.0	-10.1
H	7713.60	36.3	/	-6.0	74.0	/	54.0	-17.7
H	9629.60	36.9	/	-4.9	74.0	/	54.0	-17.1
V	2410.80	51.4	/	-12.8	74.0	/	54.0	-2.6
V	3836.00	36.0	/	-9.7	74.0	/	54.0	-18.0
V	7765.60	36.6	/	-6.0	74.0	/	54.0	-17.4

Channel 159: 5795 MHz:

Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	3863.60	36.1	/	-9.7	74.0	/	54.0	-17.9
H	7764.40	36.4	/	-6.0	74.0	/	54.0	-17.6
H	10263.60	36.5	/	-4.7	74.0	/	54.0	-17.5
V	3862.80	36.7	/	-9.7	74.0	/	54.0	-17.3
V	4824.40	36.0	/	-8.8	74.0	/	54.0	-18.0
V	10264.00	34.9	/	-6.0	74.0	/	54.0	-19.1

802.11ac(HT 40)

Channel 151: 5755 MHz:

Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	3836.40	34.9	/	-9.7	74.0	/	54.0	-19.1
H	7723.60	36.7	/	-6.0	74.0	/	54.0	-17.3
H	10435.60	36.4	/	-4.6	74.0	/	54.0	-17.6
V	3836.40	36.3	/	-9.7	74.0	/	54.0	-17.7
V	4823.60	45.6	/	-8.8	74.0	/	54.0	-8.4
V	9924.80	35.4	/	-6.0	74.0	/	54.0	-18.6

Channel 159: 5795 MHz:

Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	2310.00	32.8	/	-13.1	74.0	/	54.0	-21.2
H	7637.60	36.8	/	-6.0	74.0	/	54.0	-17.2
H	10430.40	36.1	/	-4.6	74.0	/	54.0	-17.9
V	3863.60	37.9	/	-9.7	74.0	/	54.0	-16.1
V	4823.60	45.8	/	-8.8	74.0	/	54.0	-8.2
V	7240.00	39.0	/	-6.1	74.0	/	54.0	-15.0

802.11ac(HT 80)

Channel 155: 5775 MHz:

Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	3849.60	35.3	/	-9.7	74.0	/	54.0	-18.7
H	7628.00	36.3	/	-6.0	74.0	/	54.0	-17.7
H	10277.20	36.8	/	-4.7	74.0	/	54.0	-17.2
V	4824.00	38.7	/	-8.8	74.0	/	54.0	-15.3
V	7238.80	40.6	/	-6.1	74.0	/	54.0	-13.4
V	10253.20	36.0	/	-4.7	74.0	/	54.0	-18.0

Remark: When Peak emission level was below AV limit, the AV emission level did not be record.

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 Loss – Preamplifier Factor.

As shown in Section, for frequencies above 1000 MHz. the above 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.

No any other emissions level which are attenuated less than 20dB below the limit.

4.8 Band Edges Requirement

Test Requirement:	<p>FCC Part 15 C clause 15.407(b)</p> <p>(1)For transmitters operating in the 5.15–5.25GHz band: All emission outside of the 5.15–5.35 GHz band shall not exceed an e.i.r.p of -27dBm/MHz</p> <p>(2)For transmitters operating in the 5.725–5.85GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz</p>
Frequency Band:	<p>Brand I: 5150MHz to 5250MHz</p> <p>Brand IV: 5725MHz to 5850MHz</p>
Test Method:	<p>FCC KDB 789033 D02 General UNII Test Procedures New Rules v01,Clause G</p> <p>As specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.</p>
Test Status:	<p>Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.</p>
Test Configuration:	<p>Refer to the Radiated Spurious Emission test.</p>
Test Procedure:	<p>Refer to the Radiated Spurious Emission test.</p>

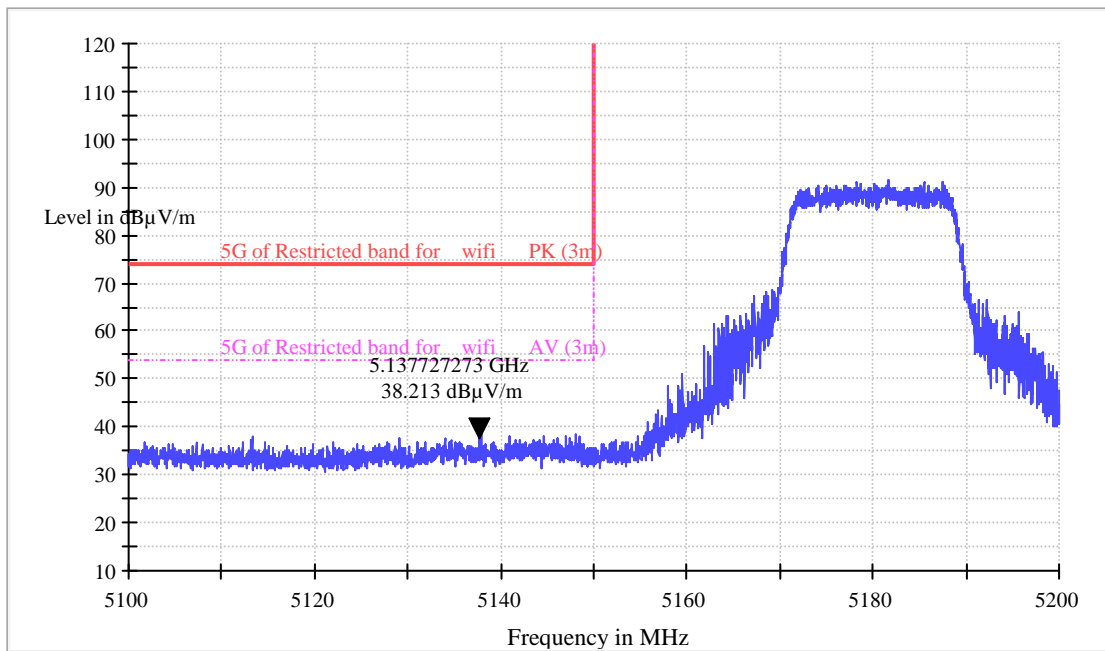
Test result as follows:

Band I 5150 MHz to 5250 MHz

802.11an(HT 20)

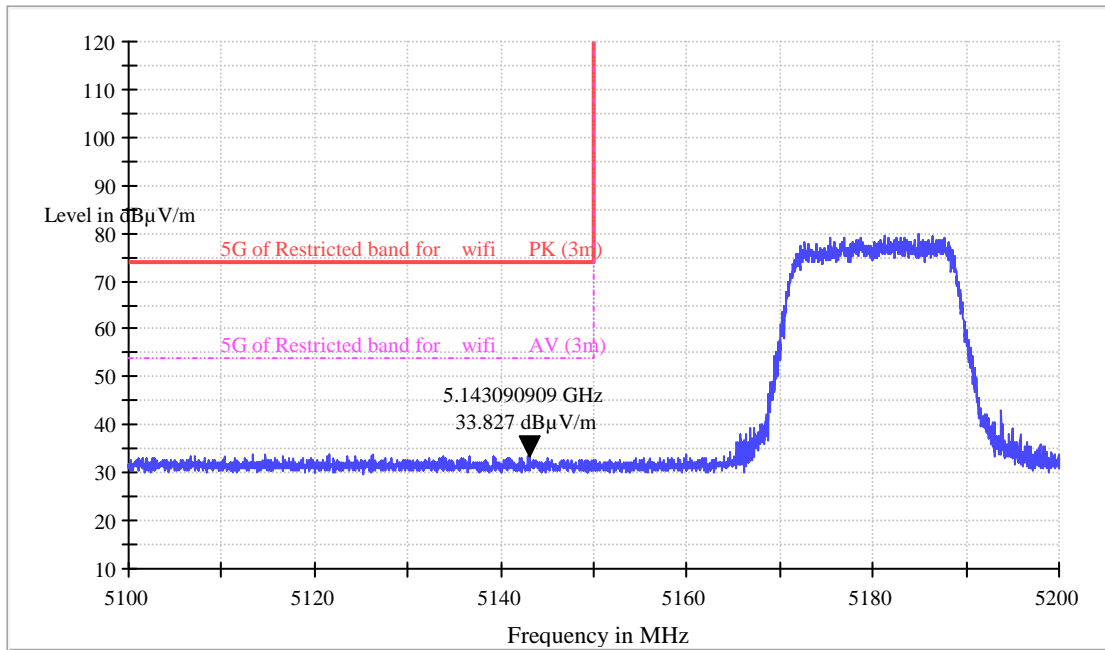
Channel 36: 5180 MHz:

Horizontal



Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	5137.72	38.2	/	-8.7	74.0	/	54.0	-15.8

Vertical

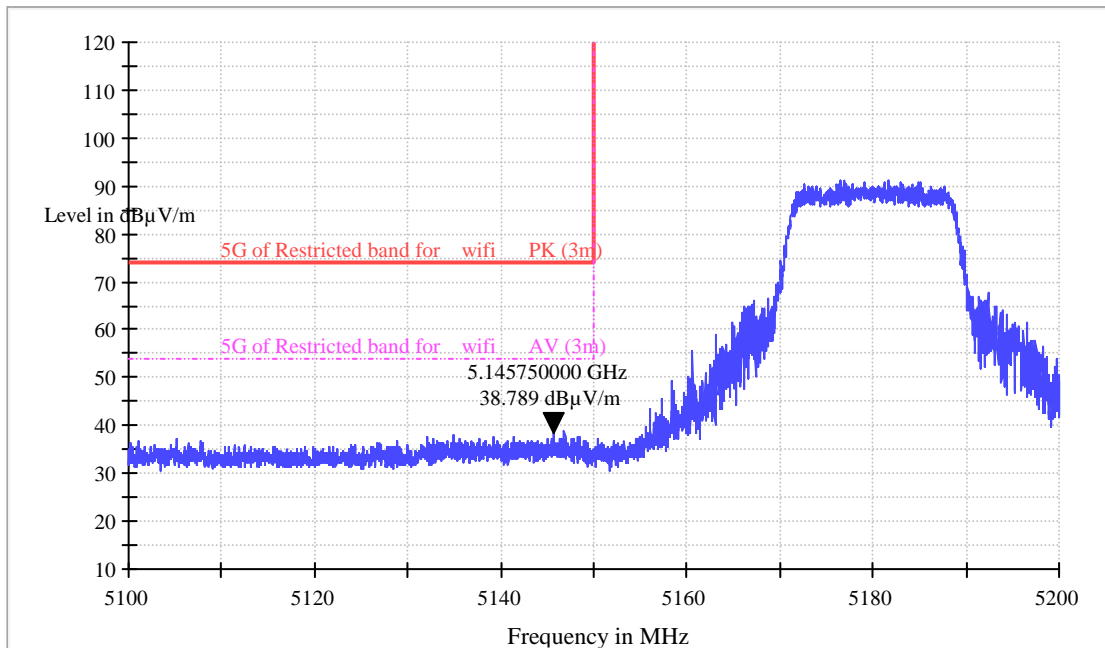


Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
V	5143.09	33.8	/	-8.7	74.0	/	54.0	-20.2

802.11ac(HT 20)

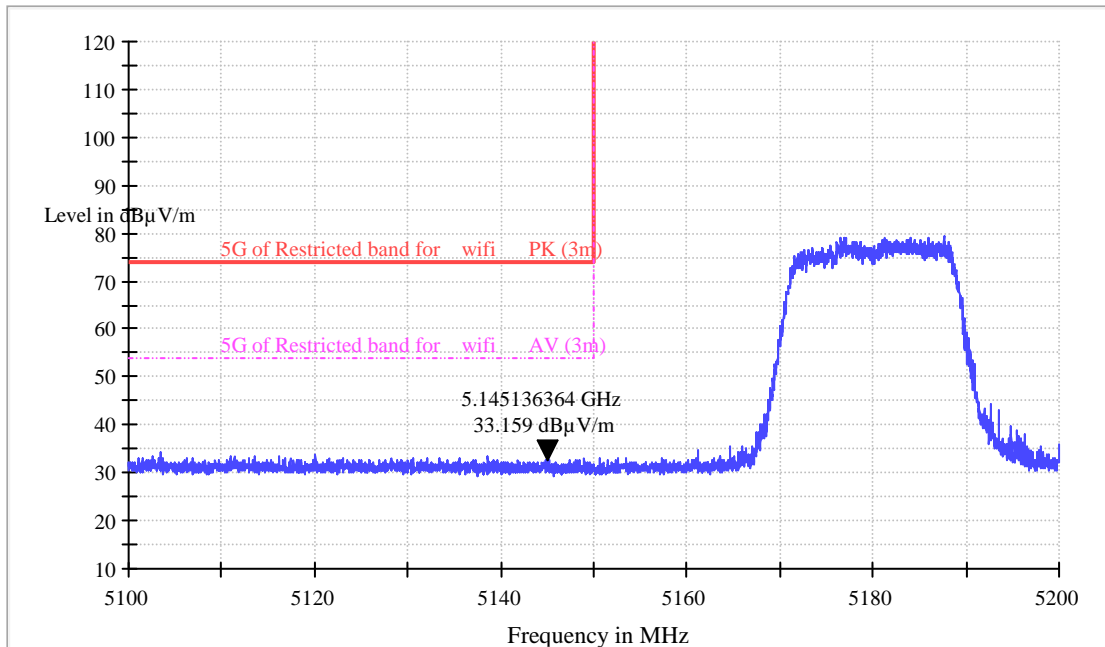
Channel 36: 5180 MHz:

Horizontal



Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	5145.75	38.8	/	-8.7	74.0	/	54.0	-15.2

Vertical

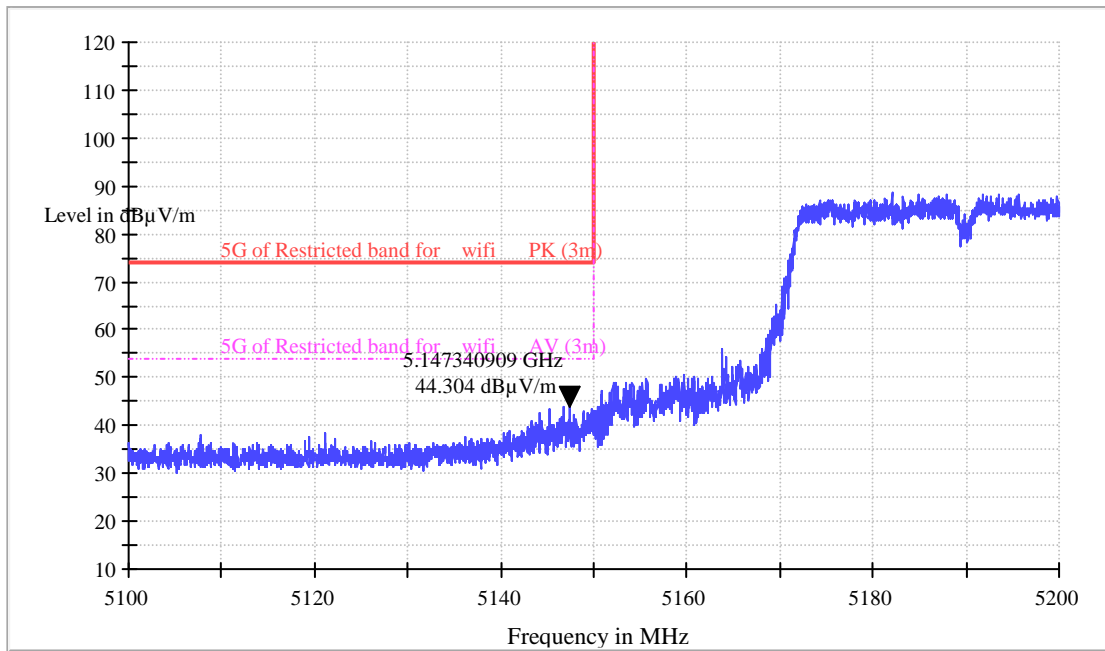


Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
V	5145.10	33.2	/	-8.7	74.0	/	54.0	-20.8

802.11an(HT 40)

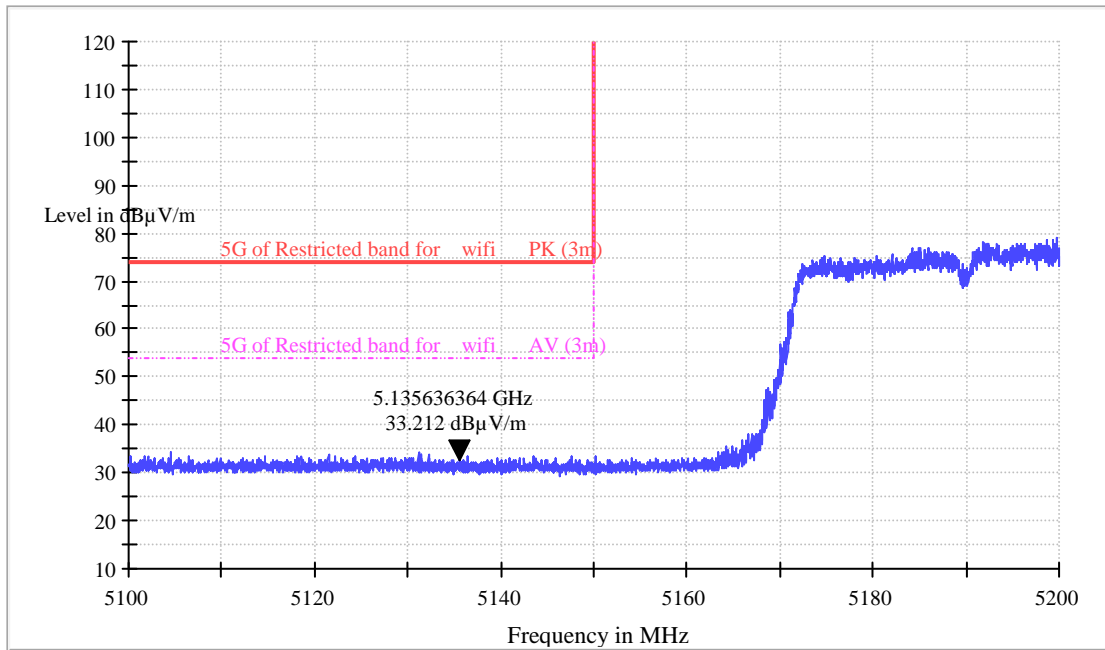
Channel 38: 5190 MHz:

Horizontal



Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	5147.34	44.3	/	-8.7	74.0	/	54.0	-9.7

Vertical

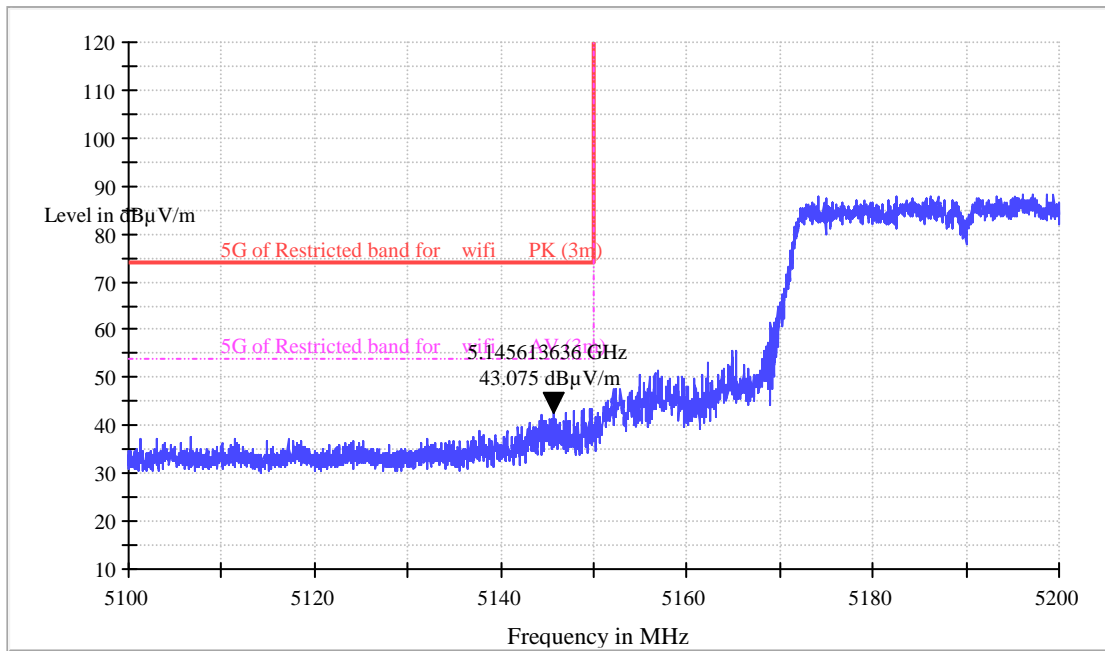


Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
V	5135.64	33.2	/	-8.7	74.0	/	54.0	-20.8

802.11ac(HT 40)

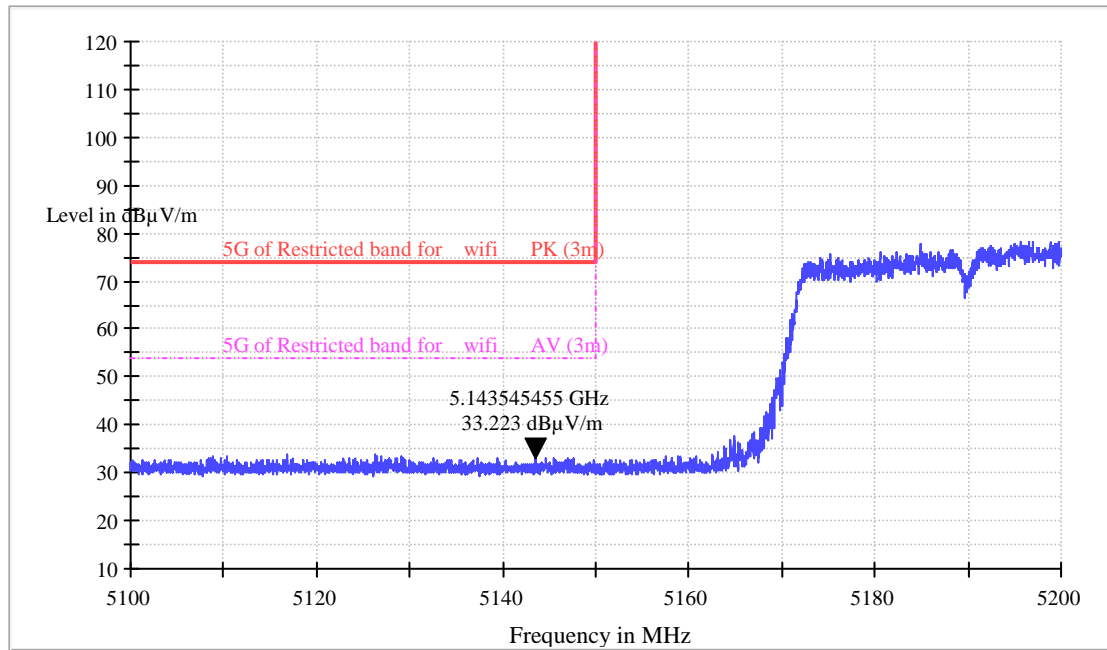
Channel 38: 5190 MHz:

Horizontal



Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	5145.67	43.1	/	-8.7	74.0	/	54.0	-10.9

Vertical

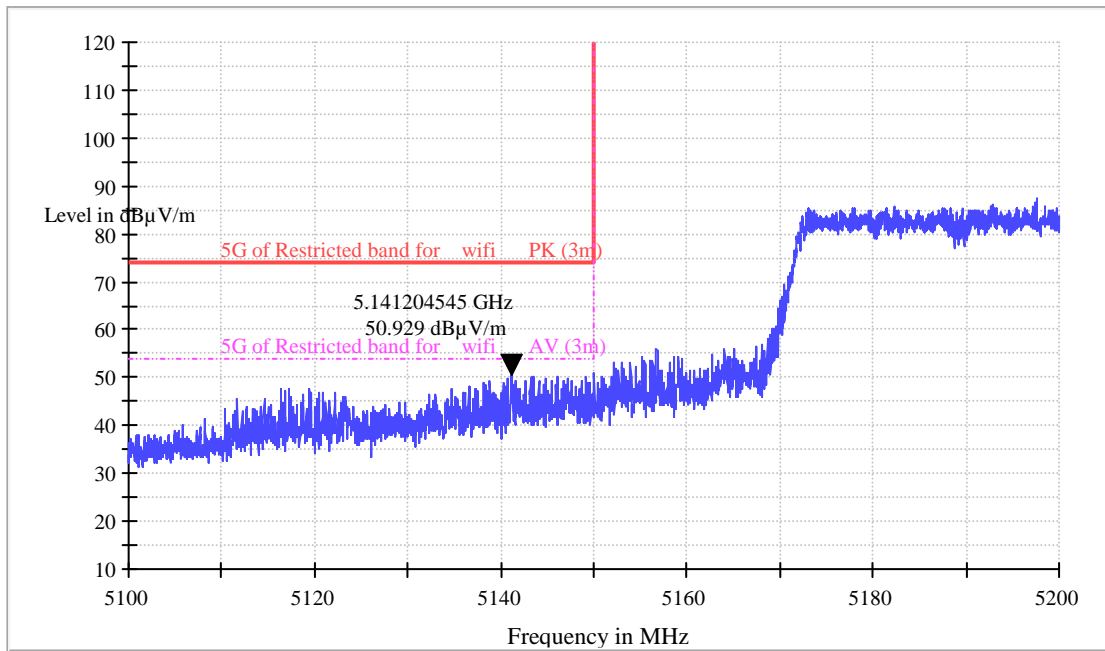


Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
V	5143.54	33.2	/	-8.7	74.0	/	54.0	-20.8

802.11ac(HT 80)

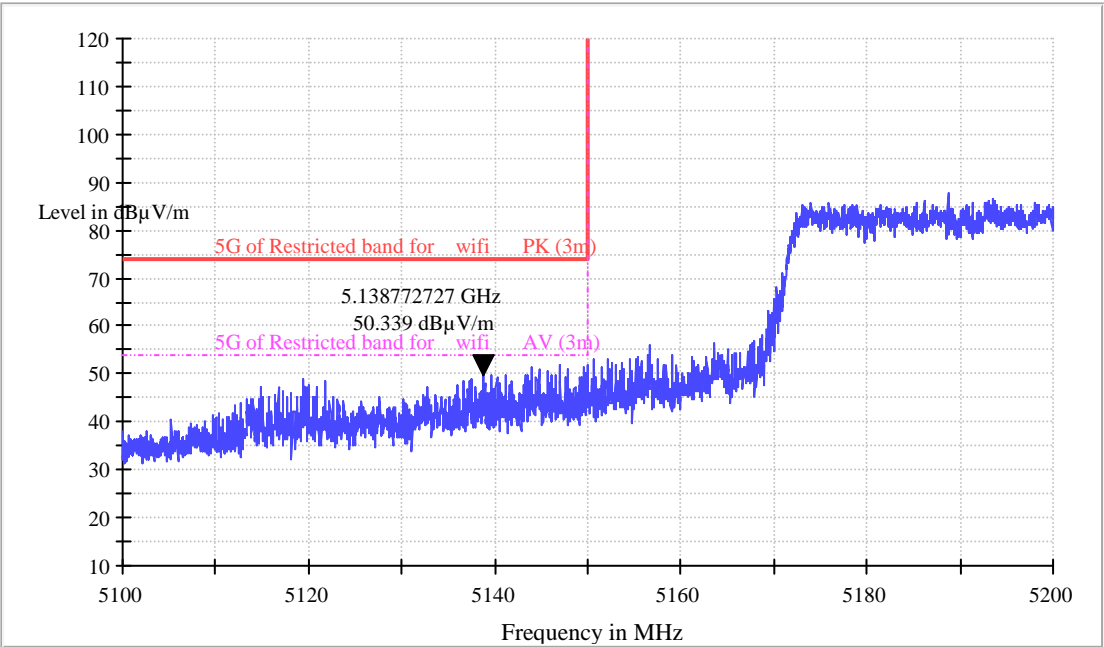
Channel 42: 5210 MHz:

Horizontal



Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	5141.20	50.9	/	-8.7	74.0	/	54.0	-3.1

Vertical



Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
V	5138.77	50.3	/	-8.7	74.0	/	54.0	-3.7

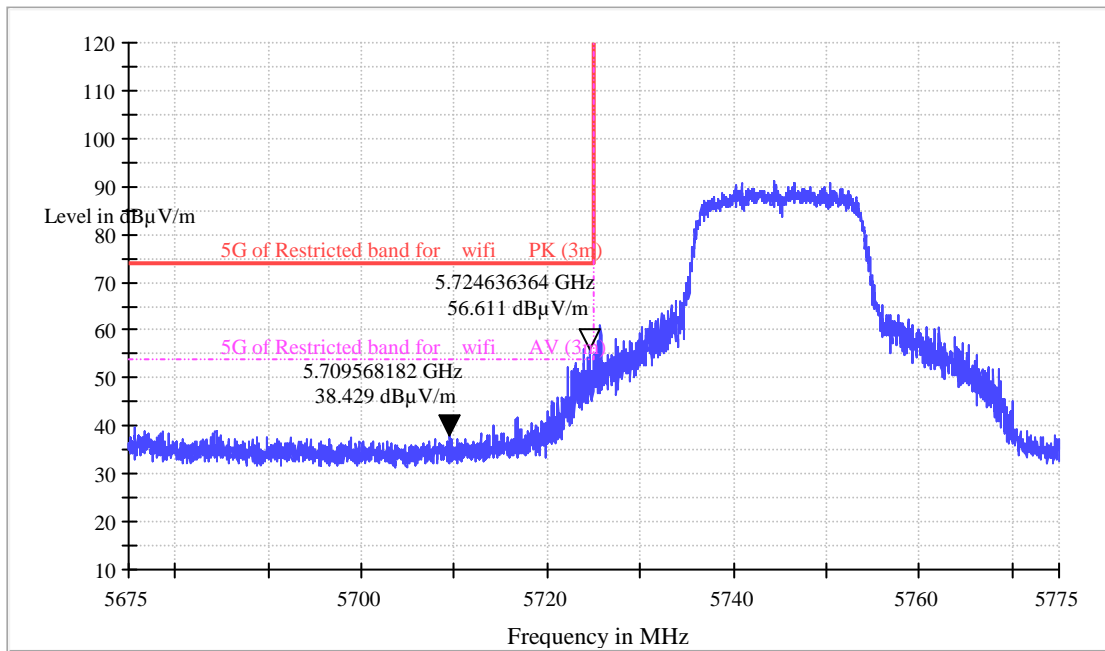
Result as follows:

Band IV 5725 MHz to 5850 MHz

802.11an(HT 20)

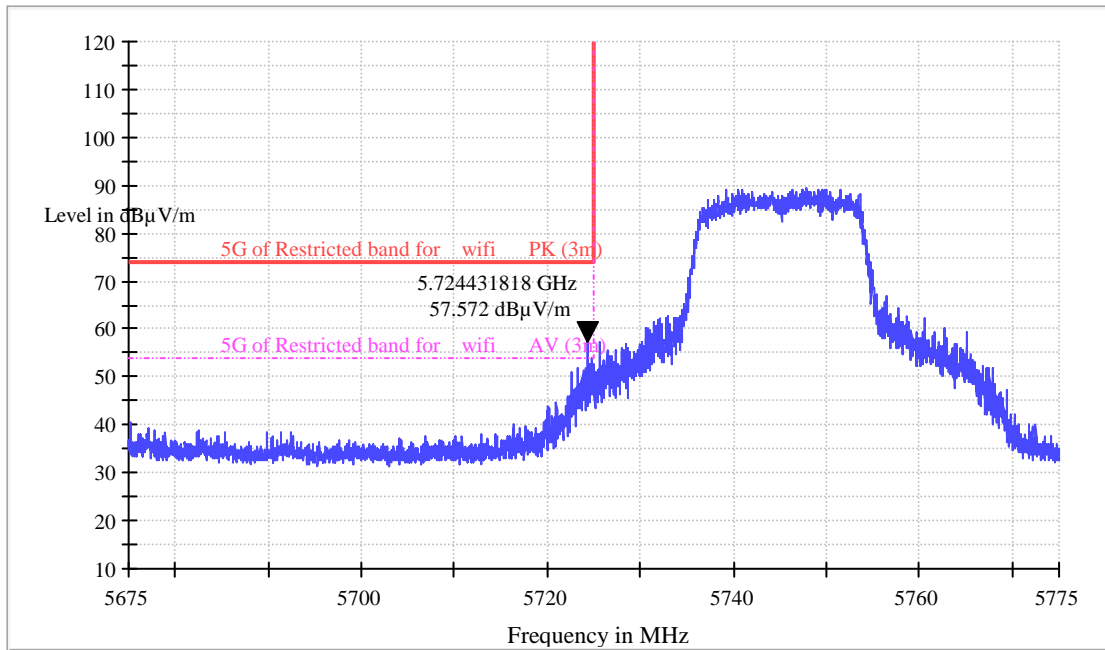
Channel 149: 5745 MHz:

Horizontal



Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	5709.56	38.4	/	-7.7	74.0	/	54.0	-15.6
H	5724.63	56.6	48.2	-8.7	74.0	-17.4	54.0	-5.8

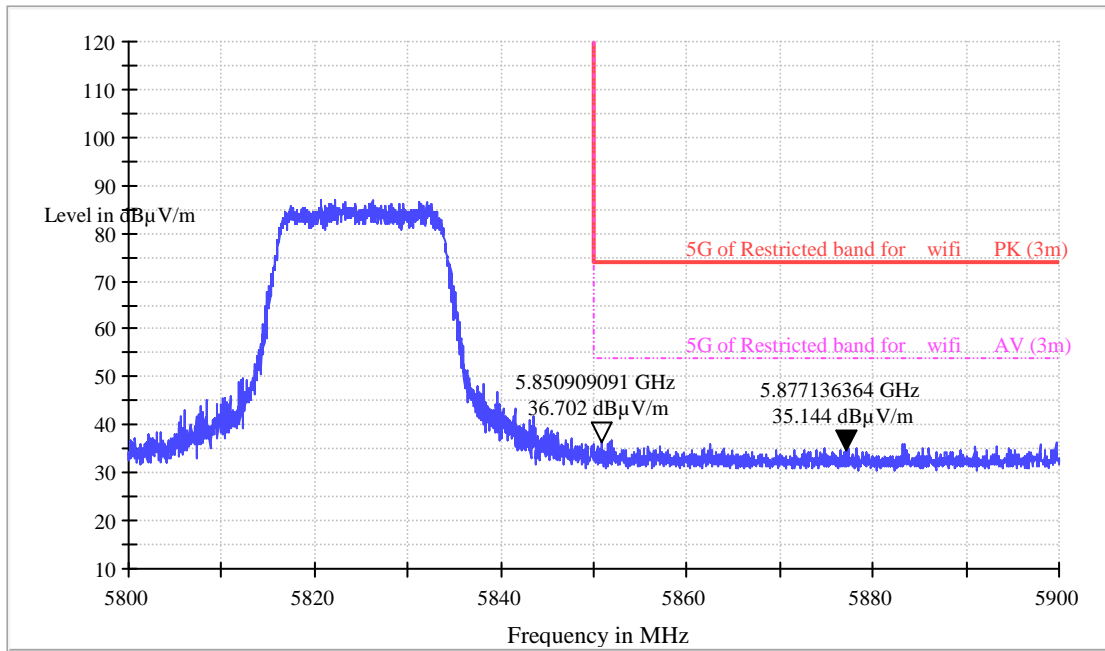
Vertical



Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
V	5724.43	57.6	46.9	-7.7	74.0	-16.4	54.0	-7.1

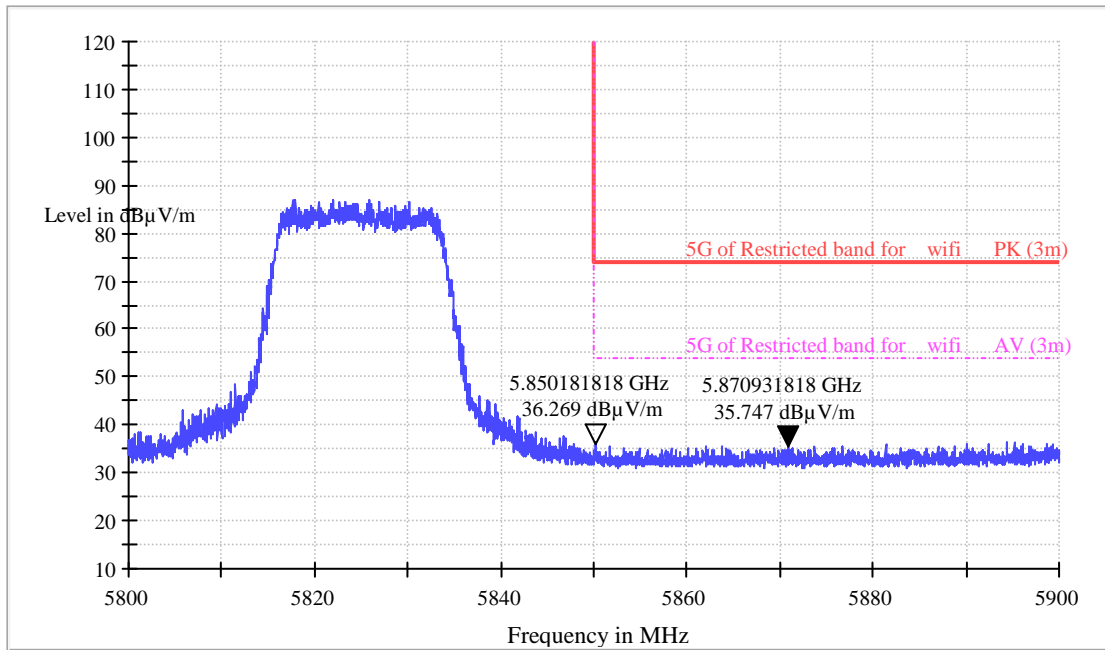
Channel 165: 5825 MHz:

Horizontal



Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	5850.09	36.7	/	-7.6	74.0	/	54.0	-17.3
H	5877.13	35.1	/	-7.6	74.0	/	54.0	-18.9

Vertical

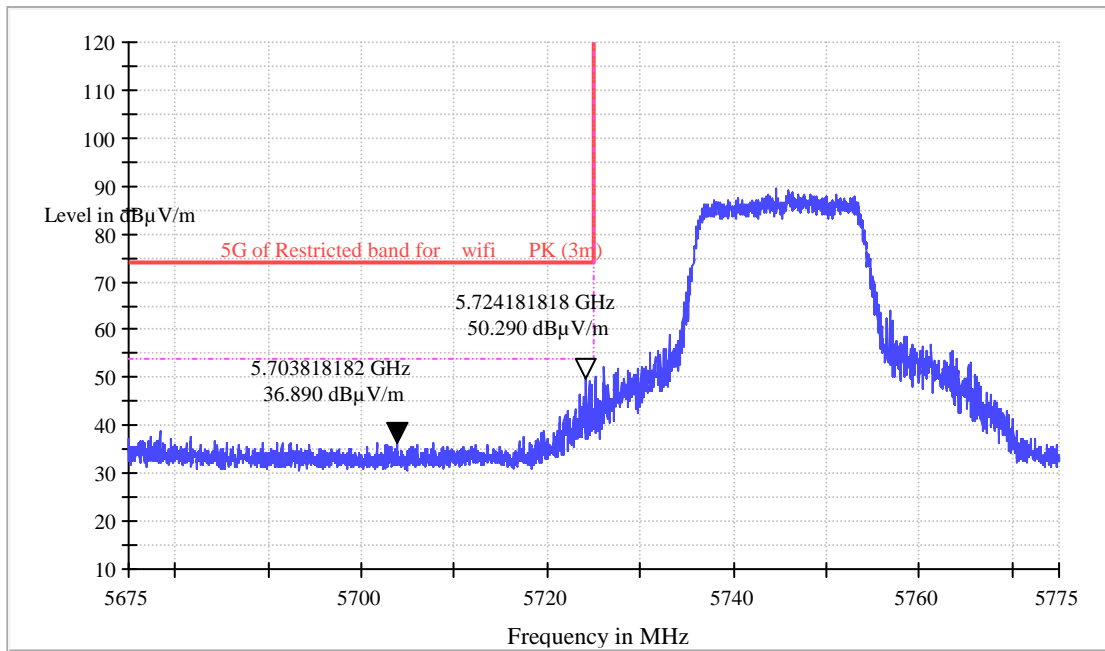


Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
V	5850.18	36.3	/	-7.6	74.0	/	54.0	-17.7
V	5870.90	35.7	/	-7.6	74.0	/	54.0	-18.3

802.11ac(HT 20)

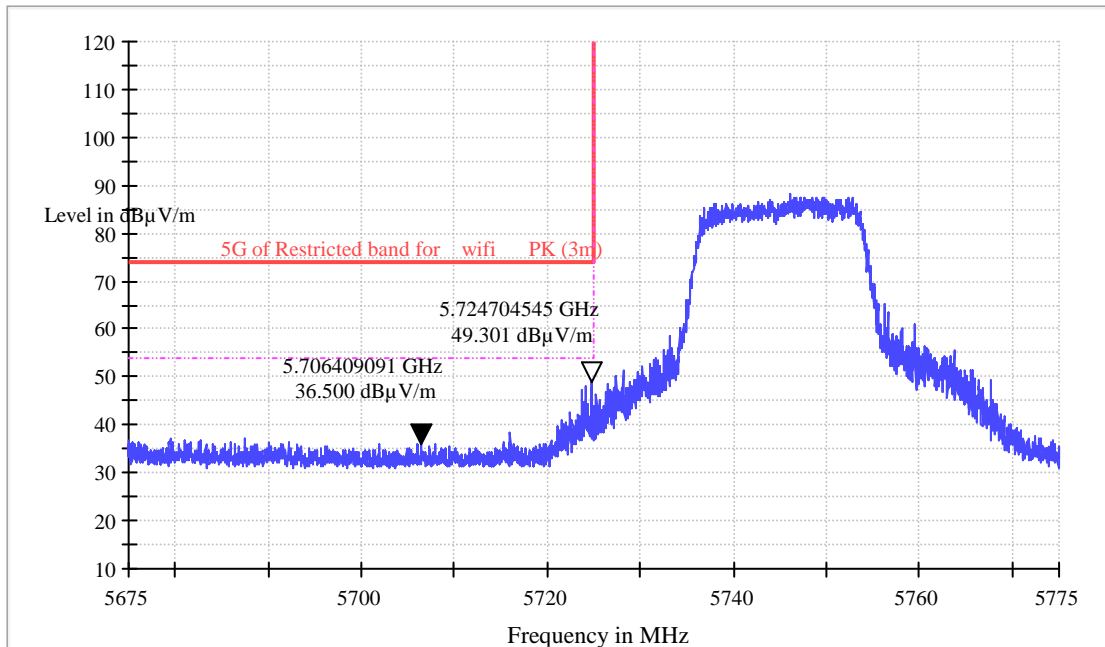
Channel 149: 5745 MHz:

Horizontal



Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	5703.81	36.9	/	-7.7	74.0	/	54.0	-17.1
H	5724.18	50.3	/	-8.7	74.0	/	54.0	-3.7

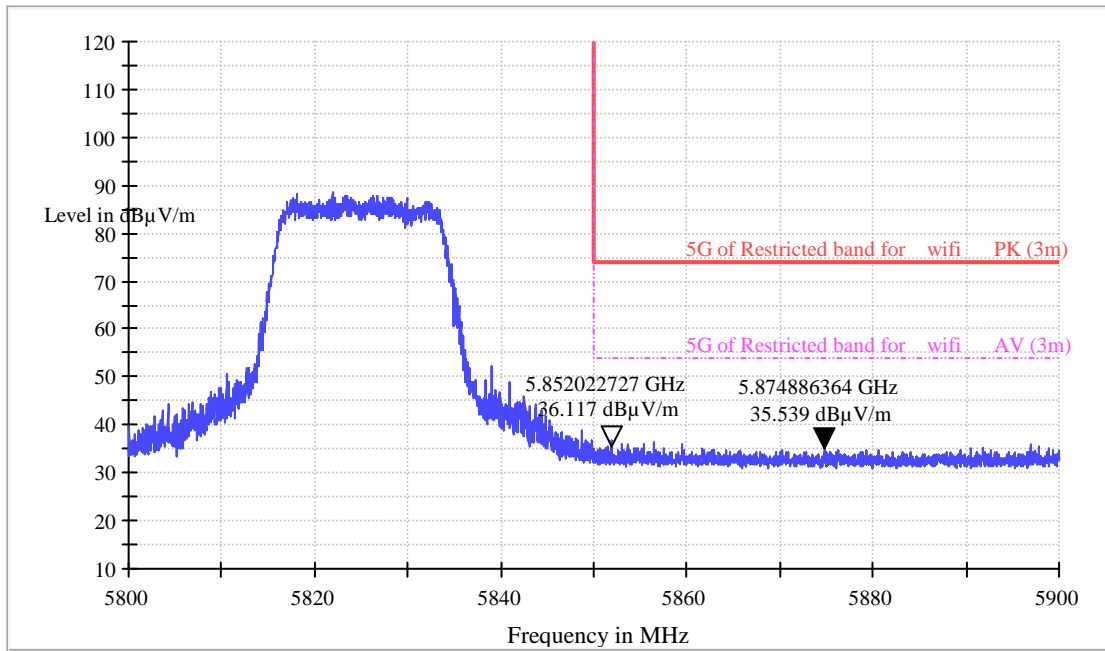
Vertical



Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
V	5706.40	36.5	/	-7.7	74.0	/	54.0	-17.5
V	5724.70	49.3	/	-8.7	74.0	/	54.0	-4.7

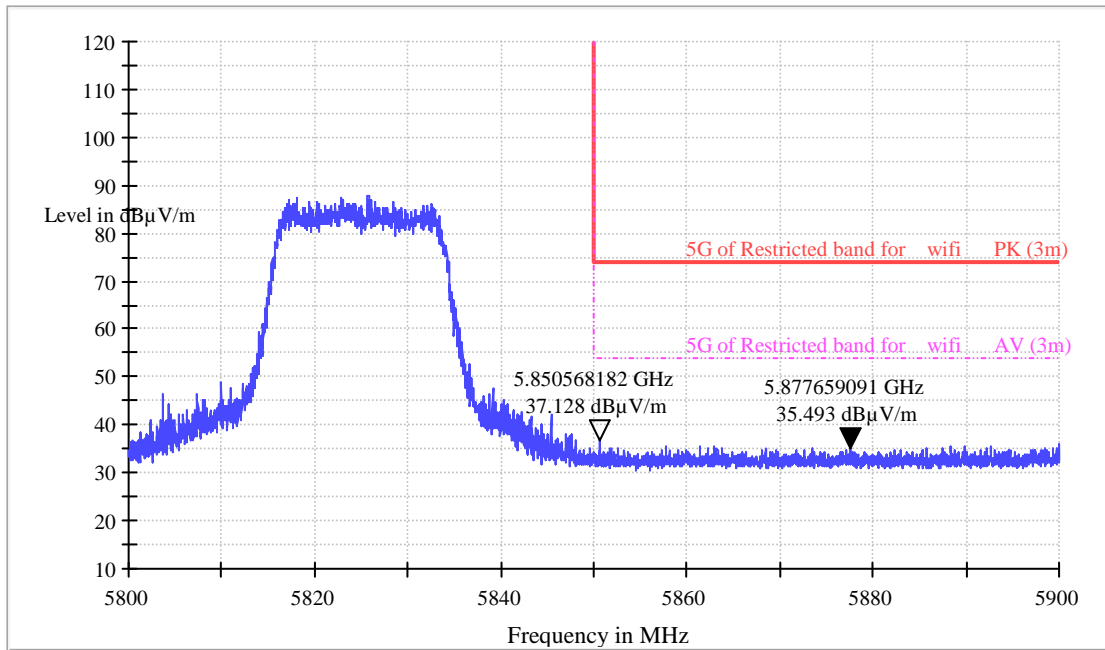
Channel 165: 5825 MHz:

Horizontal



Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	5850.02	36.1	/	-7.6	74.0	/	54.0	-17.9
H	5874.88	35.6	/	-7.6	74.0	/	54.0	-18.4

Vertical

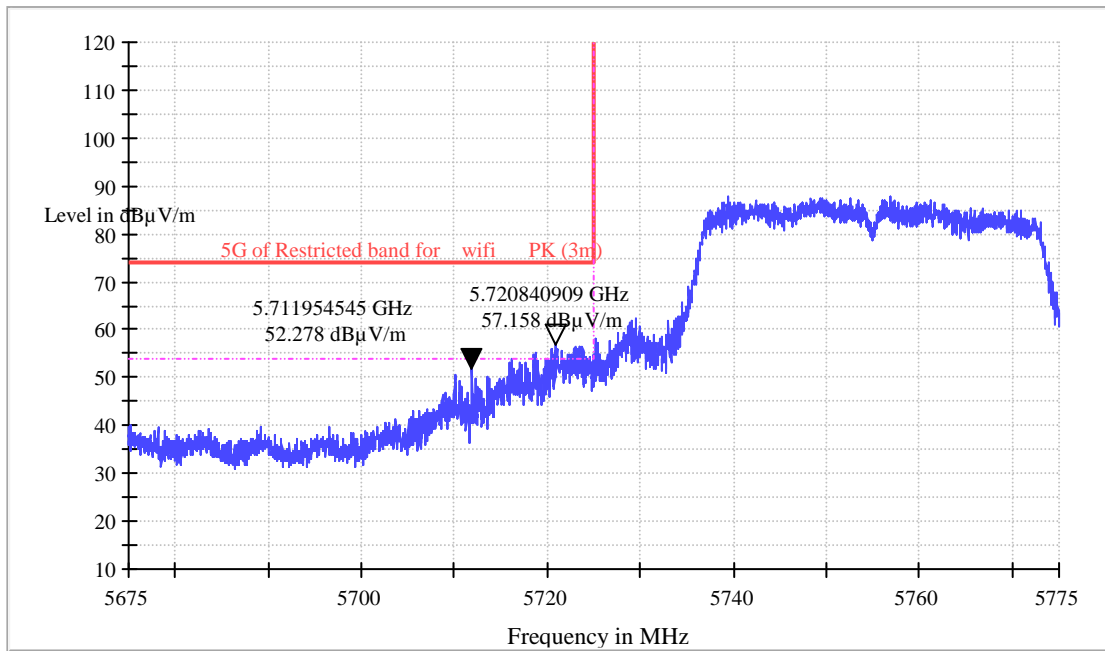


Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
V	5850.68	37.1	/	-7.6	74.0	/	54.0	-16.9
V	5877.66	35.4	/	-7.6	74.0	/	54.0	-18.6

802.11an(HT 40)

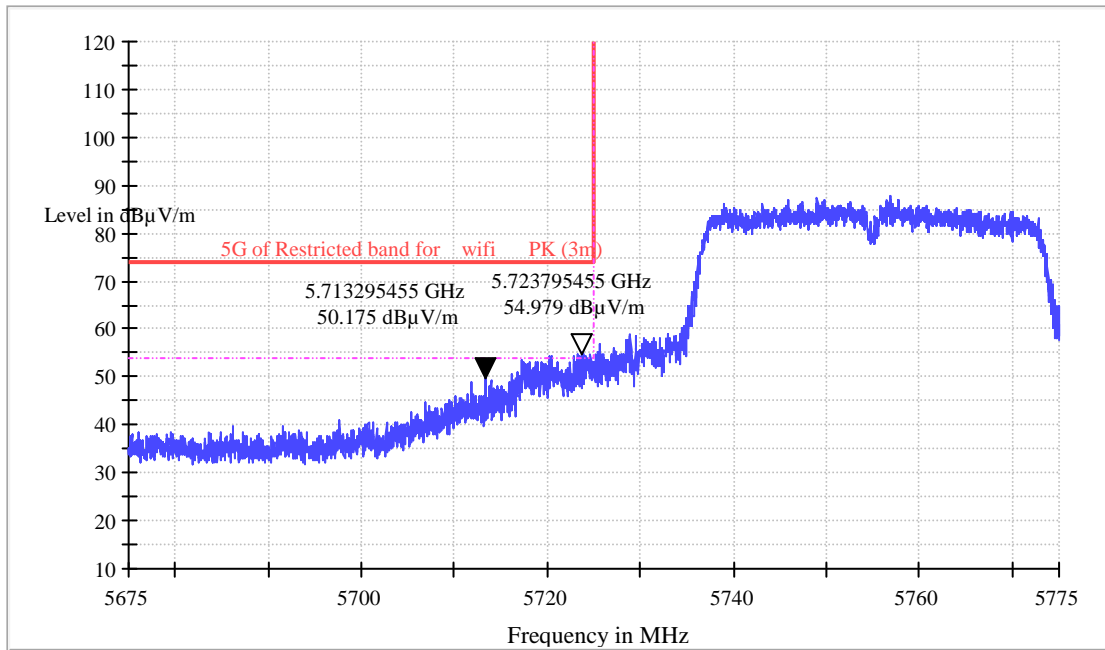
Channel 151: 5755 MHz:

Horizontal



Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	5711.95	52.3	/	-7.7	74.0	/	54.0	-1.7
H	5720.84	57.2	48.9	-7.7	74.0	-16.8	54.0	-5.1

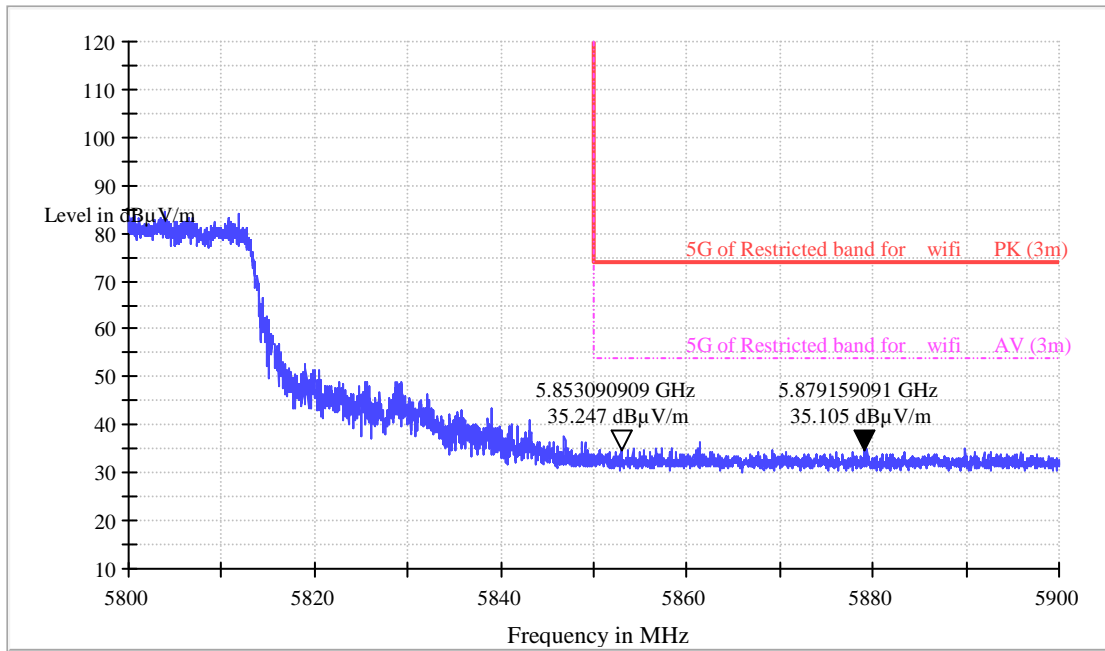
Vertical



Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
V	5713.29	50.2	/	-7.7	74.0	/	54.0	-3.8
V	5723.79	54.9	45.2	-7.7	74.0	-19.1	54.0	-8.8

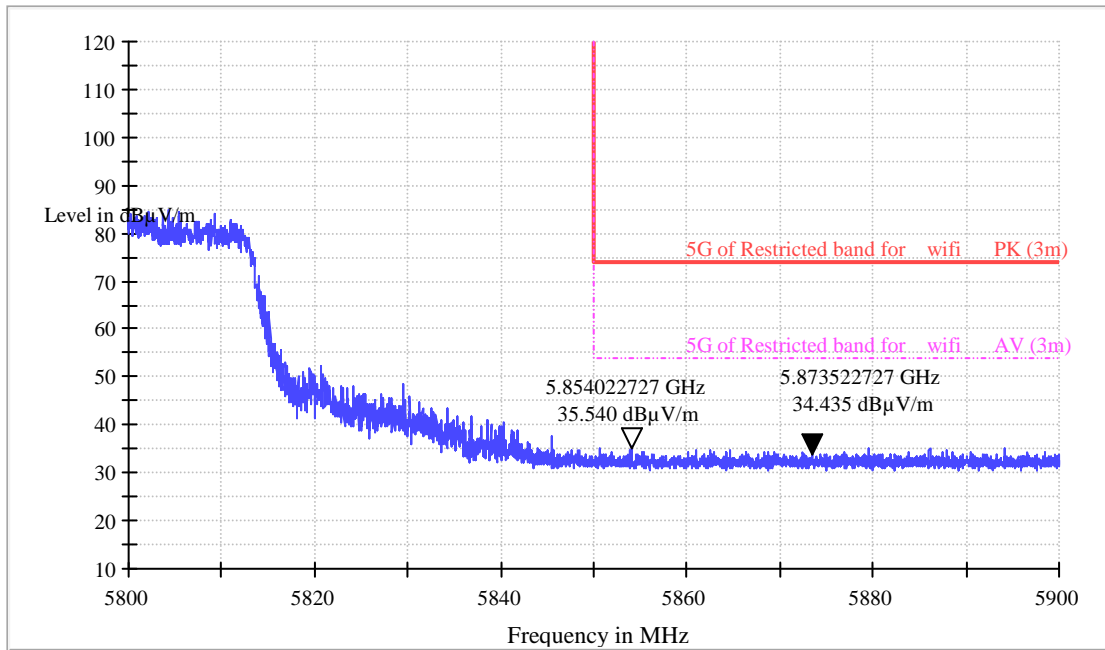
Channel 159: 5795 MHz:

Horizontal



Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	5850.09	35.2	/	-7.6	74.0	/	54.0	-18.8
H	5879.15	35.1	/	-7.6	74.0	/	54.0	-18.9

Vertical

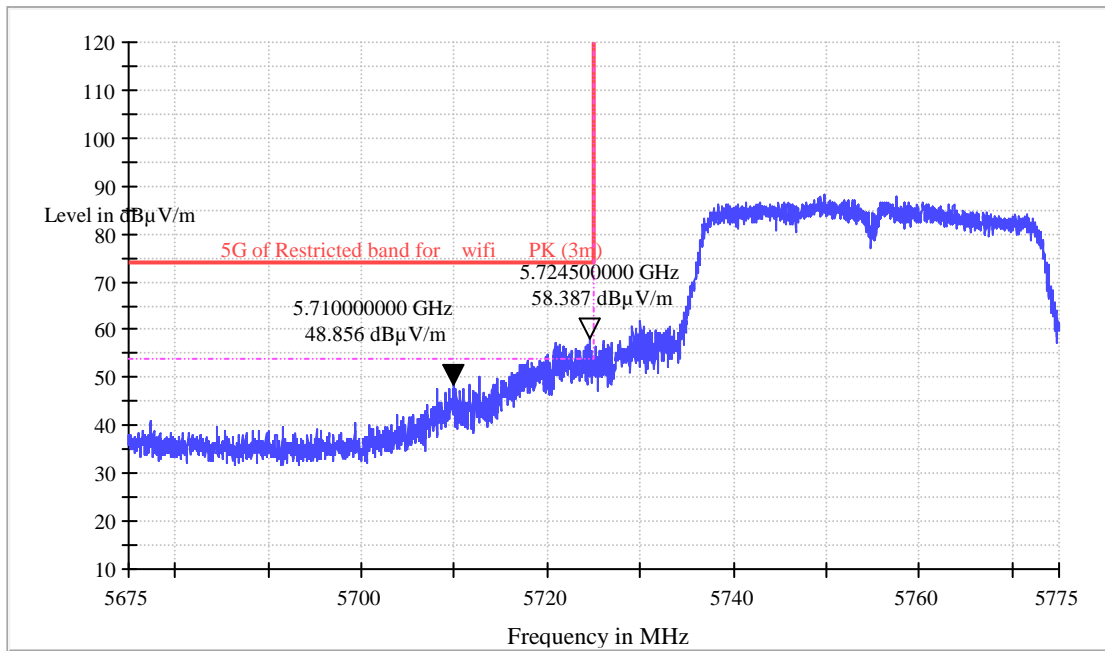


Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
V	5854.02	35.5	/	-7.6	74.0	/	54.0	-18.5
V	5873.52	34.4	/	-7.6	74.0	/	54.0	-19.6

802.11ac(HT 40)

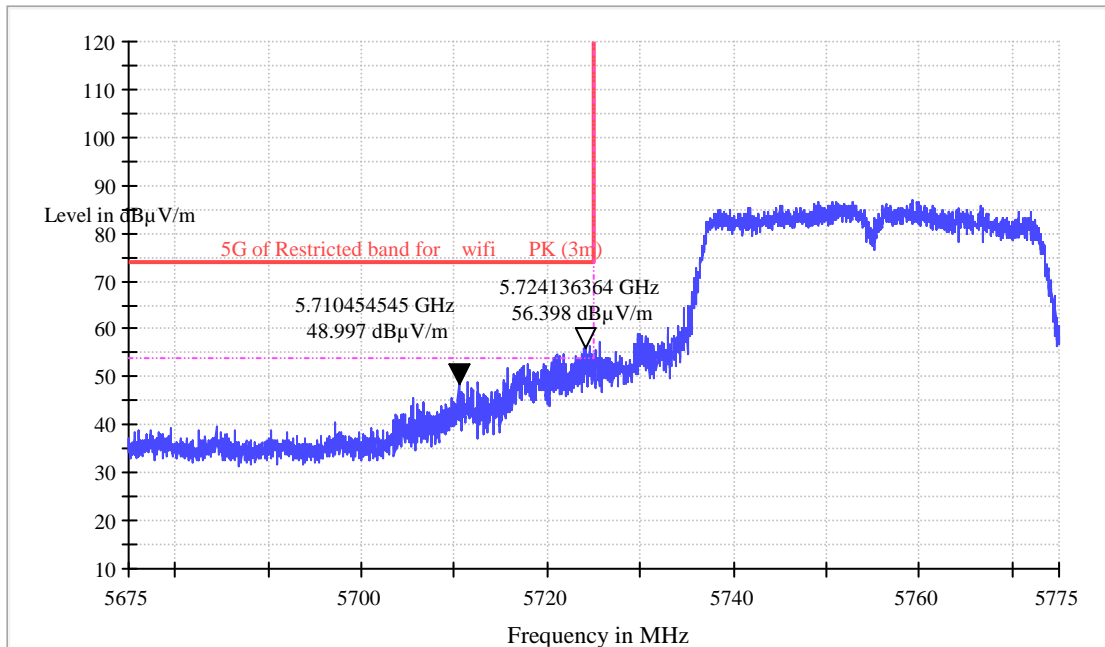
Channel 151: 5755 MHz:

Horizontal



Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	5710.00	48.9	/	-7.7	74.0	/	54.0	-5.1
H	5724.50	58.4	49.6	-7.7	74.0	-15.6	54.0	-4.4

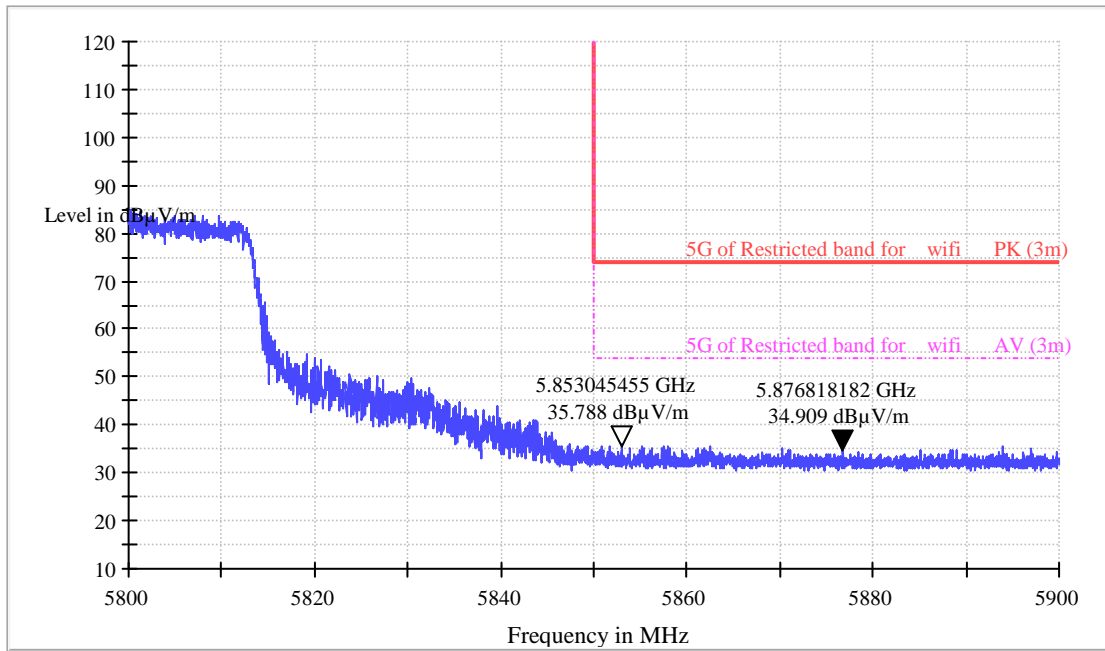
Vertical



Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
V	5710.45	48.9	/	-7.7	74.0	/	54.0	-5.1
V	5724.13	56.4	45.9	-7.7	74.0	-17.6	54.0	-8.1

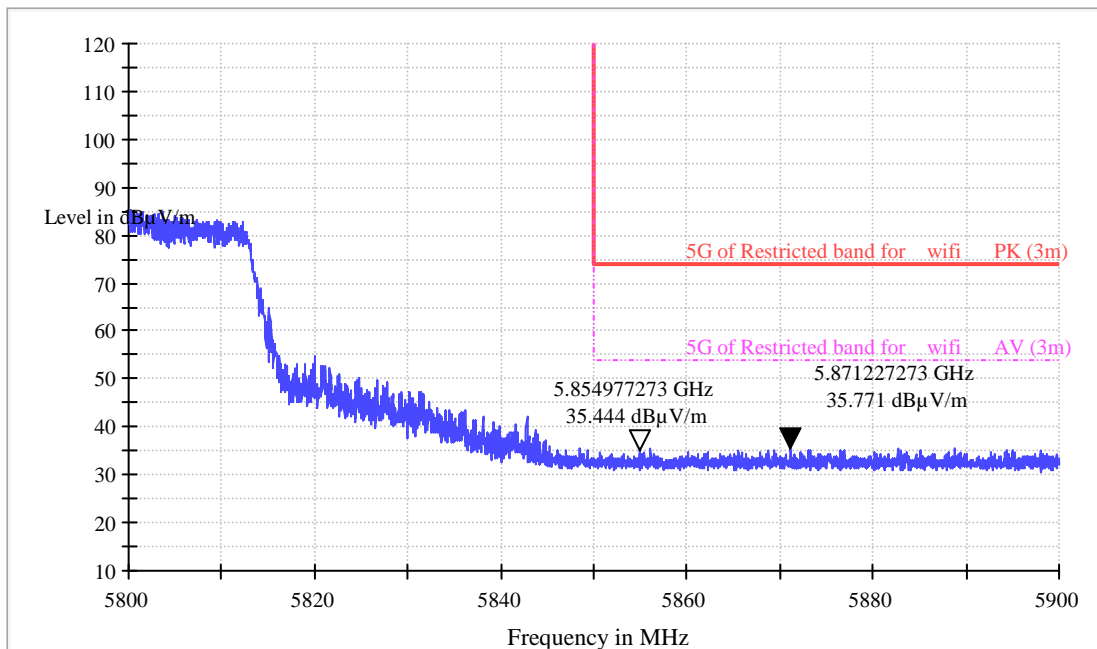
Channel 159: 5795 MHz:

Horizontal



Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	5853.04	35.8	/	-7.6	74.0	/	54.0	-18.2
H	5876.18	34.9	/	-7.6	74.0	/	54.0	-19.1

Vertical

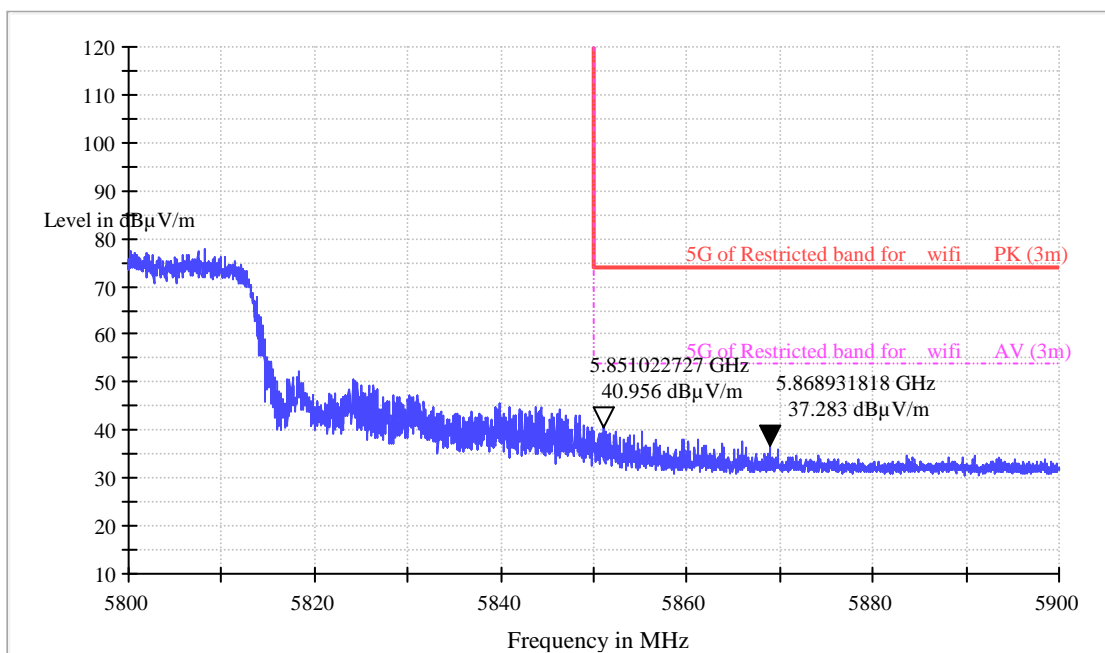
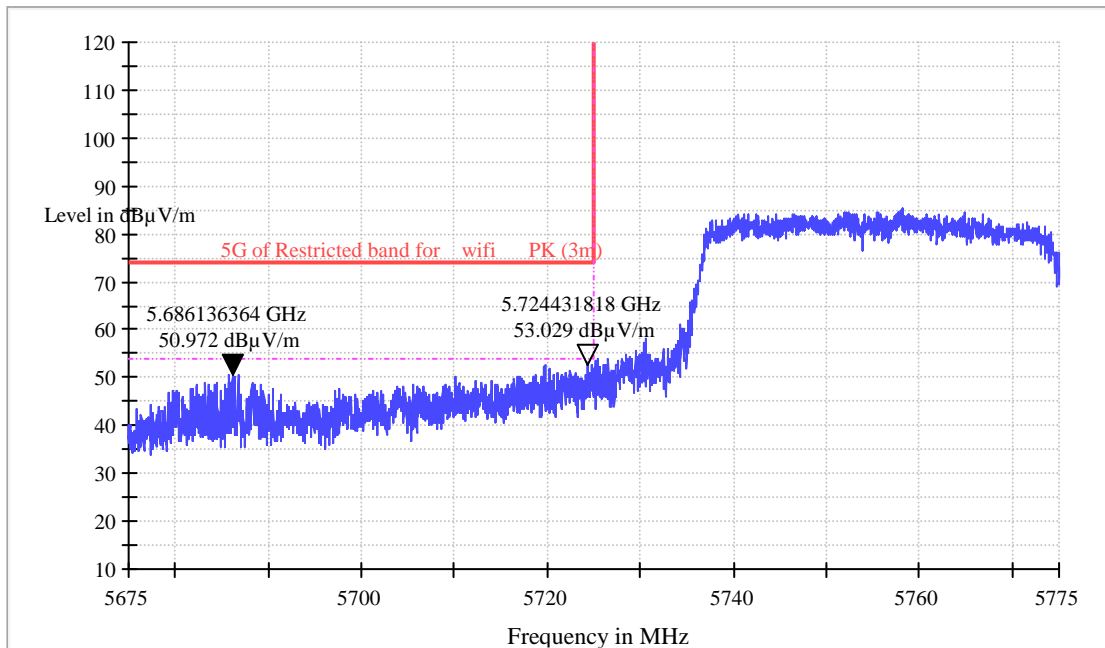


Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
V	5854.97	35.4	/	-7.6	74.0	/	54.0	-18.6
V	5871.22	35.8	/	-7.6	74.0	/	54.0	-18.2

802.11ac(HT 80)

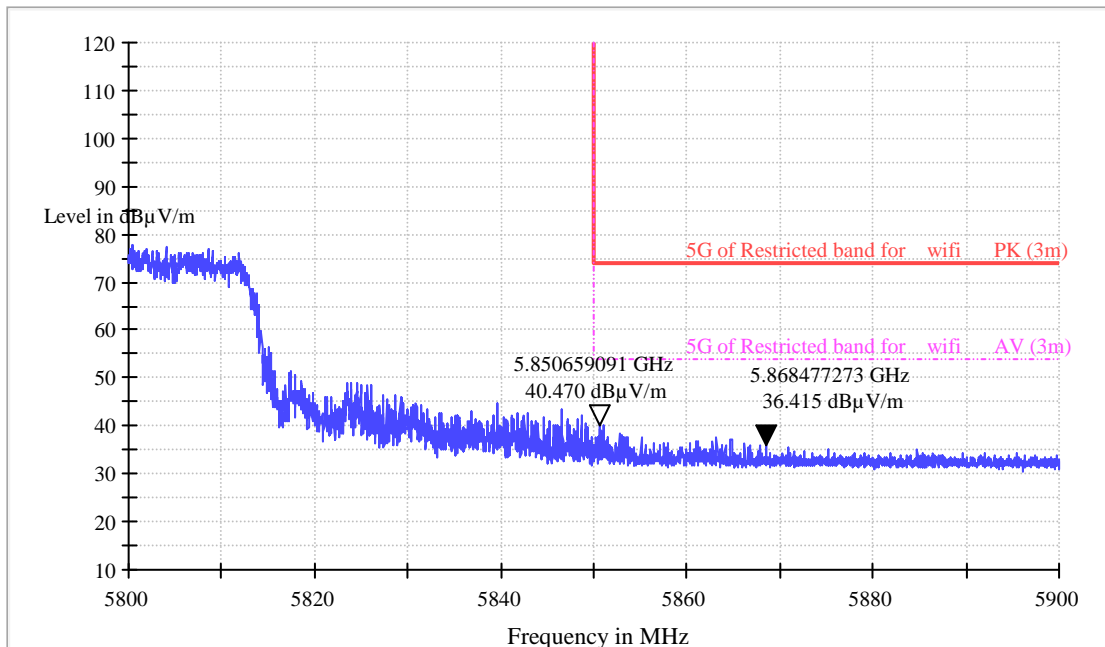
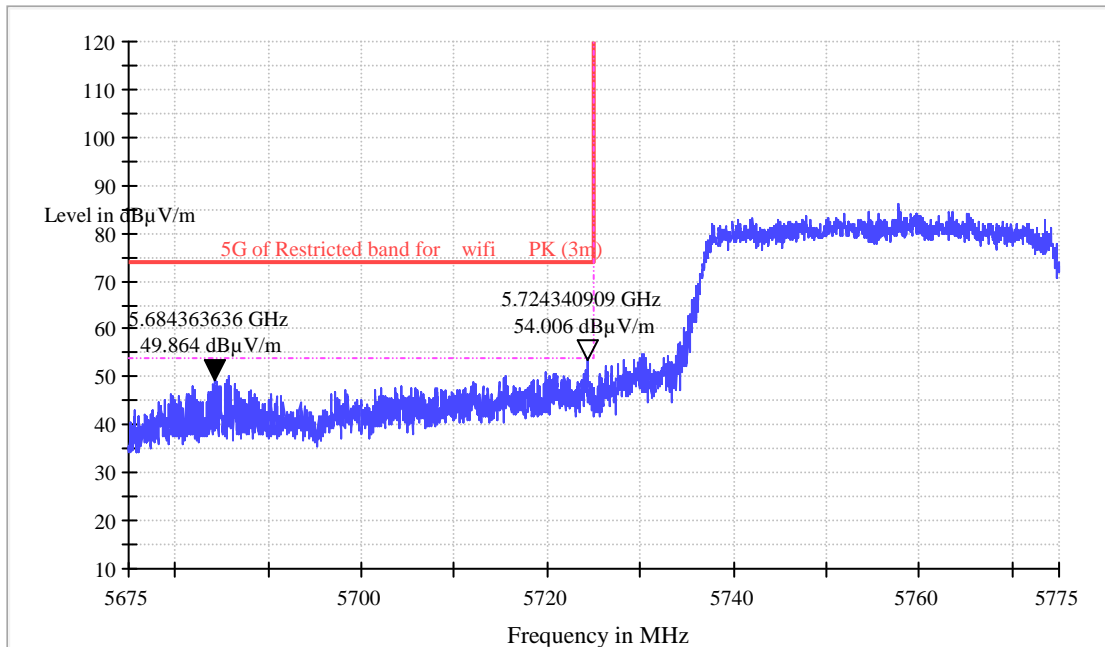
Channel 155: 5775 MHz:

Horizontal



Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
H	5686.14	50.9	/	-7.7	74.0	/	54.0	-3.1
H	5724.43	53.0	/	-7.7	74.0	/	54.0	-1.0
H	5851.02	40.9	/	-7.6	74.0	/	54.0	-13.1
H	5868.93	37.2	/	-7.7	74.0	/	54.0	-16.8

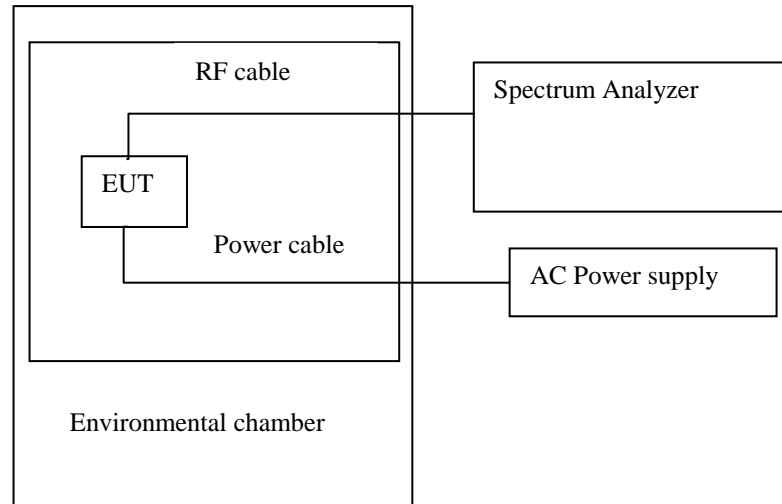
Vertical



Polarization	Frequency (MHz)	PK Net at 3m (dBμV/m)	AV Net at 3m (dBμV/m)	Correction Factor (dB)	PK Limit at 3m (dBμV/m)	PK Margin (dB)	AV Limit at 3m (dBμV/m)	AV Margin (dB)
V	5684.36	49.8	/	-7.7	74.0	/	54.0	-4.2
V	5724.34	54.0	44.1	-7.7	74.0	-20.0	54.0	-9.9
V	5851.02	40.9	/	-7.6	74.0	/	54.0	-13.1
V	5868.93	37.2	/	-7.7	74.0	/	54.0	-16.8

4.9 Frequency Stability Test

Test setup & procedure



Frequency stability with respect to ambient temperature test procedure:

1. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage 120/60Hz.
2. Turn the EUT on and couple its output to a spectrum analyser.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency 20dB bandwidth.
5. Lower the chamber temperature by not more than 10°C, and allow the temperature inside the chamber to stabilize Repeat step 4

Frequency stability when varying supply voltage test procedure:

1. The EUT was place at ambient room temperature (+15°C to +25°C)
2. Turn the EUT on and couple its output to a spectrum analyser.
3. The supply voltage was then adjusted on the EUT from 85% to 115%
4. Measure the operating frequency 20dB bandwidth.

5. Test result as follows:

Test mode: 802.11an

Test mode:		802.11 an	Frequency (MHz)	5180
Voltage (VAC)	Test Temperature °C	20dB Bandwidth FL(MHz)	20dB Bandwidth FH(MHz)	Limit MHz
120V	40	5170.72	5189.26	5150-5350
	30	5170.88	5189.47	
	20	5170.88	5189.47	
	10	5170.76	5189.28	
	5	5170.64	5189.35	
138	20	5170.76	5189.37	
120		5170.75	5189.67	
102		5170.69	5189.25	

Test mode:		802.11 an	Frequency (MHz)	5190
Voltage (VAC)	Test Temperature °C	20dB Bandwidth FL(MHz)	20dB Bandwidth FH(MHz)	Limit MHz
120V	40	5169.76	5210.68	5150-5350
	30	5170.03	5209.77	
	20	5169.68	5210.78	
	10	5170.71	5209.72	
	5	5169.74	5210.54	
138	20	5170.39	5209.68	
120		5169.29	5210.71	
102		5170.25	5209.79	

Test mode:		802.11 an	Frequency (MHz)	5745
Voltage (VAC)	Test Temperature °C	20dB Bandwidth FL(MHz)	20dB Bandwidth FH(MHz)	Limit MHz
120V	40	5735.89	5755.01	5725-5850
	30	5735.42	5735.66	
	20	5735.77	5755.21	
	10	5735.76	5755.48	
	5	5735.78	5755.37	
138	20	5735.64	5735.46	
120		5735.59	5755.57	
102		5735.76	5755.41	

Test mode:		802.11 an	Frequency (MHz)	5825
Voltage (VAC)	Test Temperature °C	20dB Bandwidth FL(MHz)	20dB Bandwidth FH(MHz)	Limit MHz
120V	40	5816.03	5835.21	5725-5850
	30	5816.21	5835.48	
	20	5816.19	5835.68	
	10	5816.65	5835.47	
	5	5816.29	5835.59	
138	20	5816.20	5835.62	
120		5816.18	5835.49	
102		5816.39	5835.85	

Test mode:		802.11 an	Frequency (MHz)	5755
Voltage (VAC)	Test Temperature °C	20dB Bandwidth FL(MHz)	20dB Bandwidth FH(MHz)	Limit MHz
120V	40	5734.79	5775.81	5725-5850
	30	5734.61	5775.62	
	20	5734.82	5775.76	
	10	5734.78	5775.69	
	5	5734.73	5775.39	
138	20	5734.65	5775.59	
120		5734.81	5775.48	
102		5734.79	5775.31	

Test mode:		802.11 an	Frequency (MHz)	5795
Voltage (VAC)	Test Temperature °C	20dB Bandwidth FL(MHz)	20dB Bandwidth FH(MHz)	Limit MHz
120V	40	5774.87	5815.47	5725-5850
	30	5774.80	5815.26	
	20	5774.83	5815.67	
	10	5774.89	5815.58	
	5	5774.97	5815.59	
138	20	5774.66	5815.57	
120		5774.76	5815.49	
102		5774.83	5815.53	

Test mode: 802.11ac

Test mode:		802.11 ac	Frequency (MHz)	5180
Voltage (VAC)	Test Temperature °C	20dB Bandwidth FL(MHz)	20dB Bandwidth FH(MHz)	Limit MHz
120V	40	5170.18	5190.01	5150-5350
	30	5170.37	5190.24	
	20	5170.25	5190.39	
	10	5170.34	5190.26	
	5	5170.24	5190.32	
138	20	5170.47	5190.45	
120		5170.34	5190.36	
102		5170.47	5190.29	

Test mode:		802.11 ac	Frequency (MHz)	5190
Voltage (VAC)	Test Temperature °C	20dB Bandwidth FL(MHz)	20dB Bandwidth FH(MHz)	Limit MHz
120V	40	5169.88	5209.33	5150-5350
	30	5169.02	5209.87	
	20	5169.69	5209.46	
	10	5169.23	5209.71	
	5	5169.76	5209.45	
138	20	5169.43	5209.72	
120		5169.38	5209.28	
102		5169.76	5209.67	

Test mode:		802.11 ac	Frequency (MHz)	5210
Voltage (VAC)	Test Temperature °C	20dB Bandwidth FL(MHz)	20dB Bandwidth FH(MHz)	Limit MHz
120V	40	5168.73	5251.78	5150-5350
	30	5168.91	5251.68	
	20	5168.48	5251.53	
	10	5168.65	5251.57	
	5	5251.48	5251.67	
138	20	5251.44	5251.24	
120		5251.57	5251.37	
102		5251.68	5251.59	

Test mode:		802.11 ac	Frequency (MHz)	5745
Voltage (VAC)	Test Temperature °C	20dB Bandwidth FL(MHz)	20dB Bandwidth FH(MHz)	Limit MHz
120V	40	5735.69	5755.01	5725-5850
	30	5735.28	5745.90	
	20	5735.67	5755.79	
	10	5735.83	5745.94	
	5	5735.39	5755.23	
138	20	5735.65	5745.48	
120		5735.62	5755.75	
102		5735.98	5745.93	

Test mode:		802.11 ac	Frequency (MHz)	5825
Voltage (VAC)	Test Temperature °C	20dB Bandwidth FL(MHz)	20dB Bandwidth FH(MHz)	Limit MHz
120V	40	5815.03	5835.24	5725-5850
	30	5815.18	5835.27	
	20	5815.56	5835.56	
	10	5815.37	5835.25	
	5	5815.23	5835.86	
138	20	5815.87	5835.48	
120		5815.83	5835.26	
102		5815.29	5835.29	

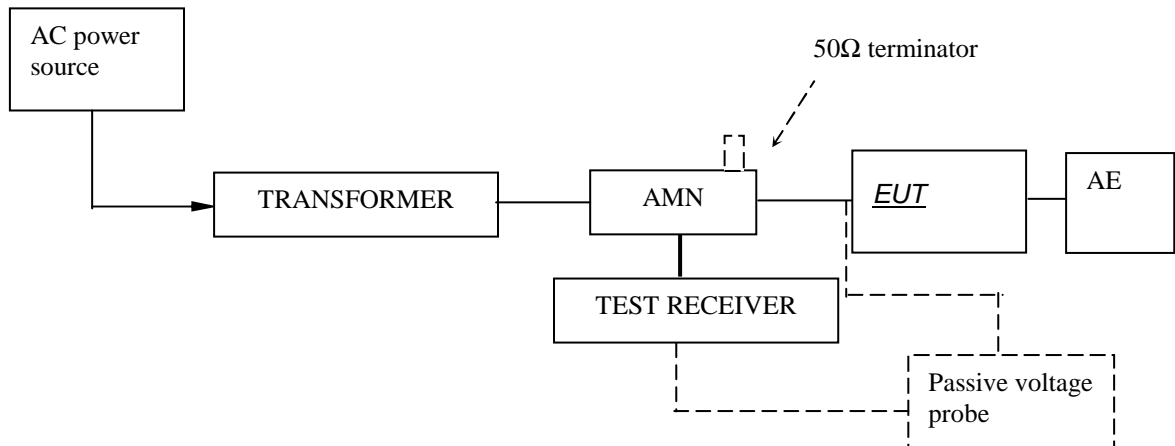
Test mode:		802.11 ac	Frequency (MHz)	5755
Voltage (VAC)	Test Temperature °C	20dB Bandwidth FL(MHz)	20dB Bandwidth FH(MHz)	Limit MHz
120V	40	5734.66	5775.31	5725-5850
	30	5734.58	5775.86	
	20	5734.76	5775.39	
	10	5734.39	5775.29	
	5	5734.35	5775.47	
138	20	5734.39	5775.53	
120		5734.29	5775.98	
102		5734.47	5775.28	

Test mode:		802.11 ac	Frequency (MHz)	5795
Voltage (VAC)	Test Temperature °C	20dB Bandwidth FL(MHz)	20dB Bandwidth FH(MHz)	Limit MHz
120V	40	5774.28	5815.95	5725-5850
	30	5774.88	5815.57	
	20	5774.86	5815.44	
	10	5774.82	5815.68	
	5	5774.49	5815.74	
138	20	5774.39	5815.99	
120		5774.75	5815.34	
102		5774.93	5815.75	

Test mode:		802.11 ac	Frequency (MHz)	5775
Voltage (VAC)	Test Temperature °C	20dB Bandwidth FL(MHz)	20dB Bandwidth FH(MHz)	Limit MHz
120V	40	5733.90	5813.17	5725-5850
	30	5732.52	5813.75	
	20	5733.78	5813.76	
	10	5732.69	5813.38	
	5	5733.72	5813.83	
138	20	5732.99	5813.66	
120		5733.78	5813.78	
102		5732.86	5813.91	

5.0 Conducted Emission Test

Test Configuration:



Test Setup and Procedure

Test was performed according to ANSI C63.10 Clause 6.2. The EUT was set to achieve the maximum emission level. The mains terminal disturbance voltage was measured with the EUT in a shielded room. The EUT was connected to AC power source through an Artificial Mains Network which provides a 50Ω linear impedance Artificial hand is used if appropriate (for handheld apparatus). The load/control terminal disturbance voltage was measured with passive voltage probe if appropriate.

The table-top EUT was placed on a 0.8m high non-metallic table above earthed ground plane (Ground Reference Plane). And for floor standing EUT, was placed on a 0.1m high non-metallic supported on GRP. The EUT keeps a distance of at least 0.8m from any other of the metallic surface. The Artificial Mains Network is situated at a distance of 0.8m from the EUT.

During the test, mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m.

The bandwidth of test receiver was set at 9 kHz. The frequency range from 150 kHz to 30MHz was checked.

Test Data

At main terminal: Pass

Tested Wire: Live

Operation Mode: transmitting mode at 5190MHz

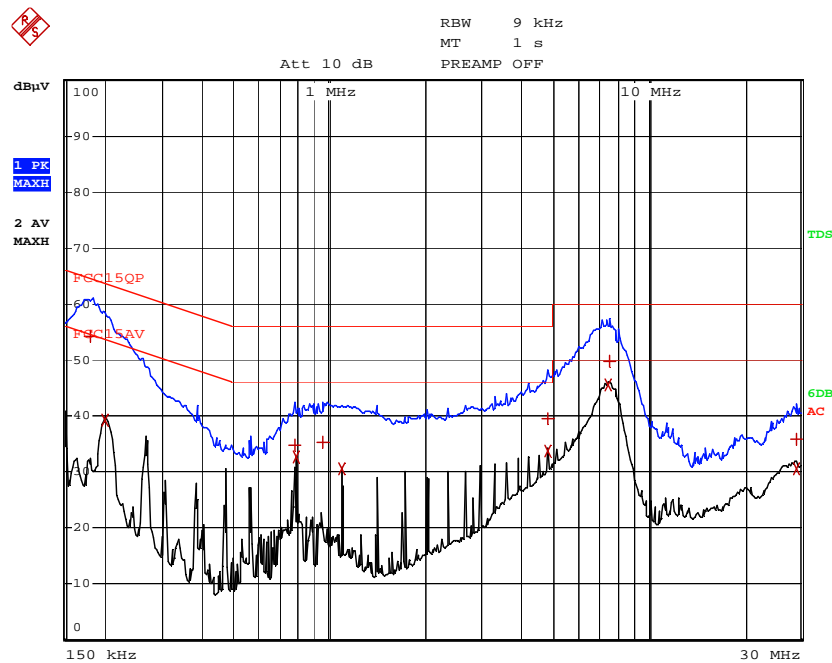
EDIT PEAK LIST (Final Measurement Results)				
Trace1:	FCC15QP			
Trace2:	FCC15AV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV	DELTA	LIMIT dB
2 Average	7.49 MHz	45.55 L1		-4.44
1 Quasi Peak	7.586 MHz	49.86 L1		-10.13
1 Quasi Peak	182 kHz	54.23 L1		-10.16
2 Average	4.866 MHz	33.82 L1		-12.18
2 Average	786 kHz	32.62 L1		-13.37
2 Average	202 kHz	39.30 L1		-14.22
2 Average	1.098 MHz	30.67 L1		-15.32
1 Quasi Peak	4.866 MHz	39.38 L1		-16.61
2 Average	29.102 MHz	30.68 L1		-19.31
1 Quasi Peak	958 kHz	35.25 L1		-20.74
1 Quasi Peak	782 kHz	34.80 L1		-21.19
1 Quasi Peak	29.138 MHz	35.93 L1		-24.06

Tested Wire: Neutral

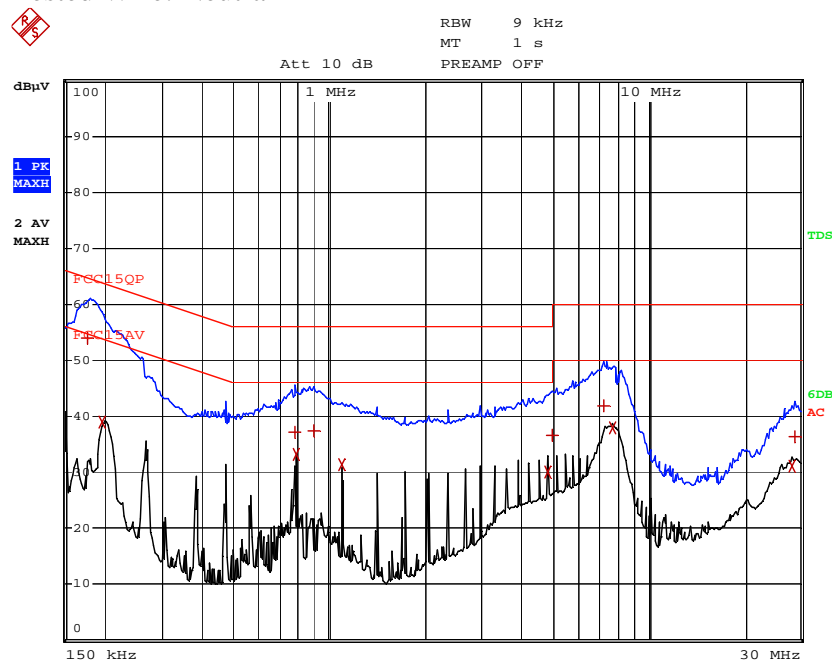
Operation Mode: transmitting mode at 5190MHz

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	FCC15QP			
Trace2:	FCC15AV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV	DELTA	LIMIT dB
1 Quasi Peak	178 kHz	53.82 L1		-10.75
2 Average	7.714 MHz	37.84 L1		-12.15
2 Average	786 kHz	33.08 L1		-12.91
2 Average	198 kHz	39.10 L1		-14.58
2 Average	1.098 MHz	31.26 L1		-14.73
2 Average	4.862 MHz	29.96 L1		-16.03
1 Quasi Peak	7.282 MHz	41.96 L1		-18.03
1 Quasi Peak	898 kHz	37.49 L1		-18.50
1 Quasi Peak	782 kHz	37.20 L1		-18.80
2 Average	28.198 MHz	31.12 L1		-18.87
1 Quasi Peak	4.994 MHz	36.61 L1		-19.38
1 Quasi Peak	28.73 MHz	36.30 L1		-23.69

Emission Curve Tested Wire: Live



Tested Wire: Neutral



5.0 Test Equipment List

Radiated Emission

Equipment No.	Equipment	Model	Manufacturer	Cal. Due date (YYYY-MM-DD)	Calibration Interval
EM030-01	3m Semi-Anechoic Chamber	9×6×6 m ³	ETS•LINDGREN	2015-04-02	1Y
EM030-02	Control room for 3m Semi-Anechoic Chamber	4×4×3 m ³	ETS•LINDGREN		
EM031-02	EMI Test Receiver (9 kHz~7 GHz)	R&S ESR7	R&S	2015-06-03	1Y
EM031-03	Signal and Spectrum Analyzer (10 Hz~40 GHz)	R&S FSV40	R&S	2015-06-03	1Y
EM011-04	Loop antenna (9 kHz-30 MHz)	HFH2-Z2	R&S	2015-05-25	1Y
EM061-03	TRILOG Super Broadband test Antenna (30 MHz-1.5 GHz)	VULB 9161	SCHWARZBECK	2015-05-25	1Y
EM033-02	Bouble-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)	R&S HF907	R&S	2015-05-25	1Y
EM033-03	High Frequency Antenna & preamplifier (18 GHz~26.5 GHz)	R&S SCU- 26	R&S	2015-05-25	1Y
EM033-04	High Frequency Antenna & preamplifier (26 GHz-40 GHz)	R&S SCU- 40	R&S	2015-05-25	1Y
EM031-02-01	Coaxial cable(9 kHz-1 GHz)	/	R&S	2015-06-03	1Y
EM033-02-02	Coaxial cable(1 GHz-18 GHz)	/	R&S	2015-06-09	
EM033-04-02	Coaxial cable (18~40) GHz	/	R&S	2015-06-09	
EM022-03	2.45 GHz Filter	BRM 50702	Micro-Tronics	2015-05-06	1Y

Conducted emission at the mains terminals test

Equipment No.	Equipment	Model	Manufacturer	Cal.Due date (YYYY-MM-DD)	Calibration Interval
EM080-05	EMI receiver	ESCI	R&S	2015-08-04	1Y
EM006-05	LISN	ENV216	R&S	2015-09-12	1Y
EM006-06	LISN	ENV216	R&S	2015-09-12	1Y
EM006-06-01	Coaxial cable	/	R&S	2015-04-12	1Y
EM004-04	EMC shield Room	8m×3m×3m	Zhongyu	2015-08-04	1Y