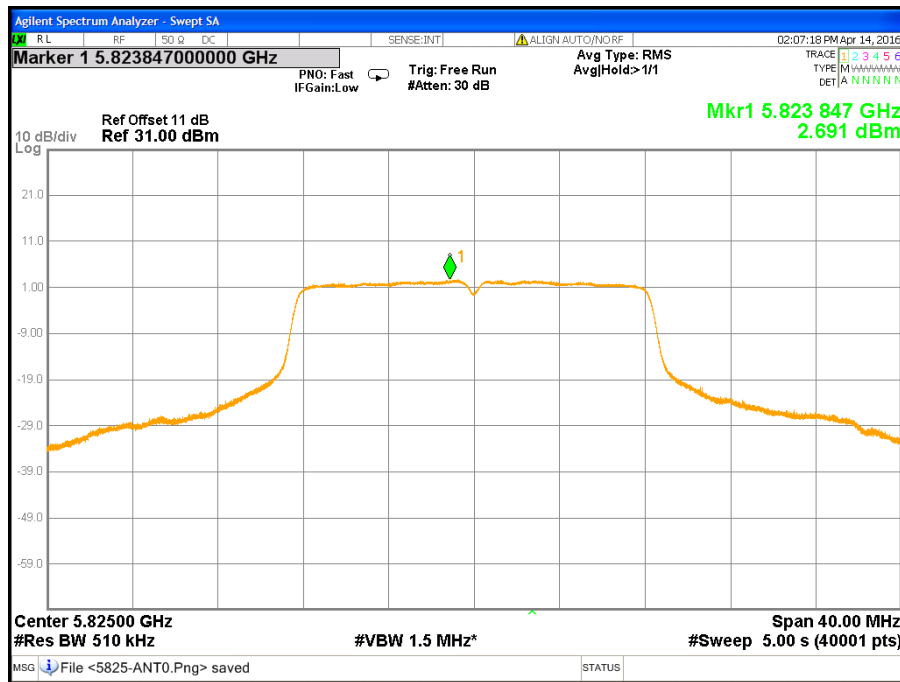## CH High (IEEE 802.11ac VHT20 Mode / Band 3 / Chain 0)
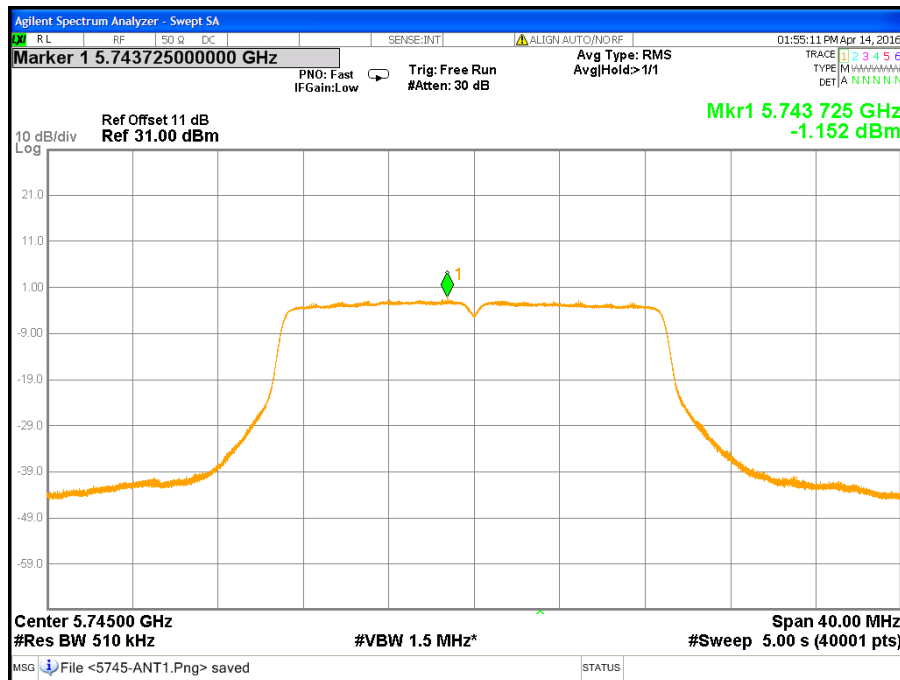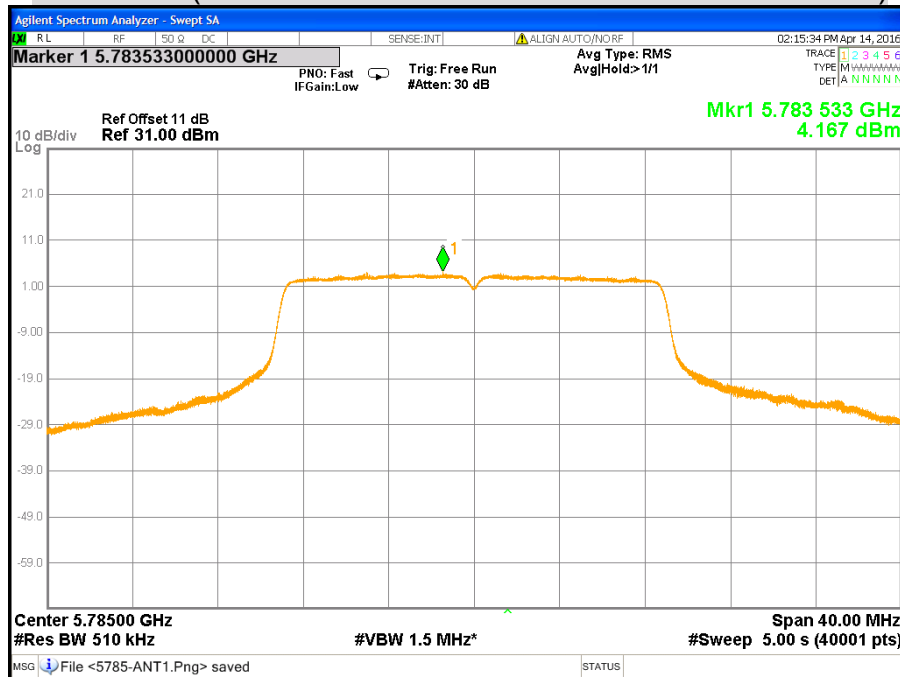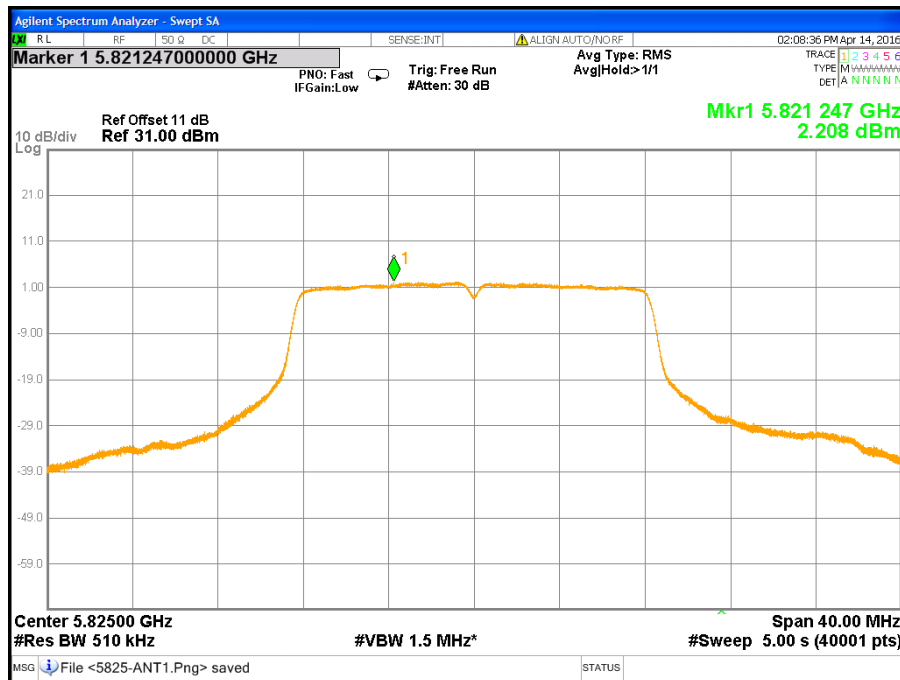
CH Low (IEEE 802.11ac VHT20 Mode / Band 3 / Chain 1)
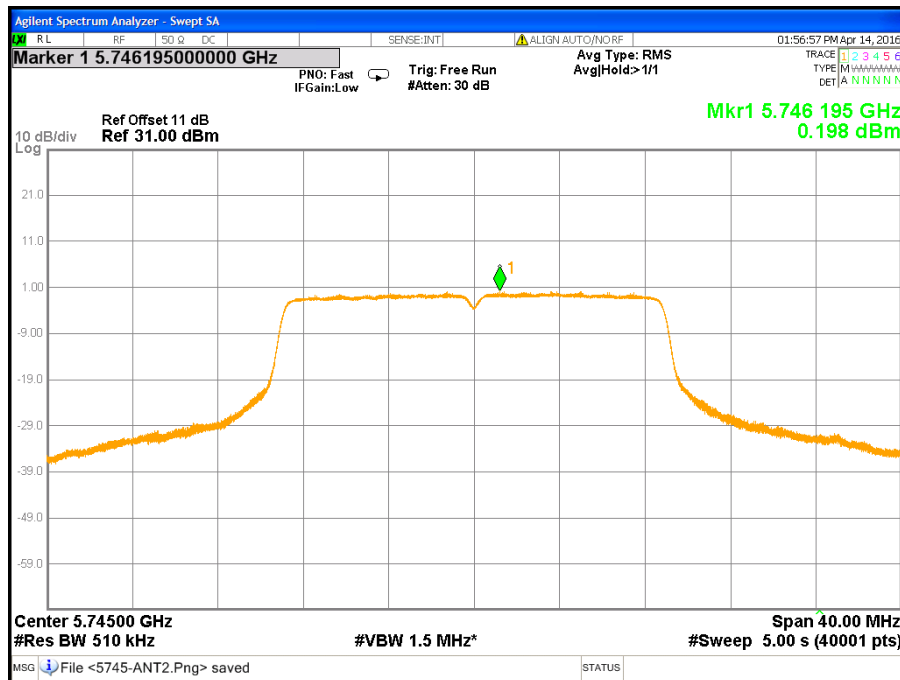

CH Middle (IEEE 802.11ac VHT20 Mode / Band 3 / Chain 1)

CH High (IEEE 802.11ac VHT20 Mode / Band 3 / Chain 1)

CH Low (IEEE 802.11ac VHT20 Mode / Band 3 / Chain 2)

Agilent Spectrum Analyzer - Swept SA

R L   RF   50 Ω   DC   SENSE:INT   ALIGN AUTO/NORF   01:56:57 PM Apr 14, 2016

Marker 1 5.746195000000 GHz

PNO: Fast   Trig: Free Run   Avg Type: RMS   TRACE 1 2 3 4 5 6
IFGain:Low   #Atten: 30 dB   Avg|Hold:>1/1   TYPE M W W W W W
                                                                   DET A N N N N N

Ref Offset 11 dB   **Mkr1 5.746 195 GHz**
10 dB/div   **Ref 31.00 dBm**   **0.198 dBm**
Log

21.0

11.0

1.00

-9.00

-19.0

-29.0

-39.0

-49.0

-59.0

Center 5.74500 GHz   Span 40.00 MHz
#Res BW 510 kHz   #VBW 1.5 MHz*   #Sweep 5.00 s (40001 pts)

MSG File <5745-ANT2.Png> saved   STATUS

CH Middle (IEEE 802.11ac VHT20 Mode / Band 3 / Chain 2)

Agilent Spectrum Analyzer - Swept SA

R L   RF   50 Ω   DC   SENSE:INT   ALIGN AUTO/NORF   02:14:13 PM Apr 14, 2016

Marker 1 5.787511000000 GHz

PNO: Fast   Trig: Free Run   Avg Type: RMS   TRACE 1 2 3 4 5 6
IFGain:Low   #Atten: 30 dB   Avg|Hold:>1/1   TYPE M W W W W W
                                                                   DET A N N N N N

Ref Offset 11 dB   **Mkr1 5.787 511 GHz**
10 dB/div   **Ref 31.00 dBm**   **3.346 dBm**
Log

21.0

11.0

1.00

-9.00

-19.0

-29.0

-39.0

-49.0

-59.0

Center 5.78500 GHz   Span 40.00 MHz
#Res BW 510 kHz   #VBW 1.5 MHz*   #Sweep 5.00 s (40001 pts)

MSG File <5785-ANT2.Png> saved   STATUS

CH High (IEEE 802.11ac VHT20 Mode / Band 3 / Chain 2)

CH Low (IEEE 802.11ac VHT20 Mode / Band 3 / Chain 3)

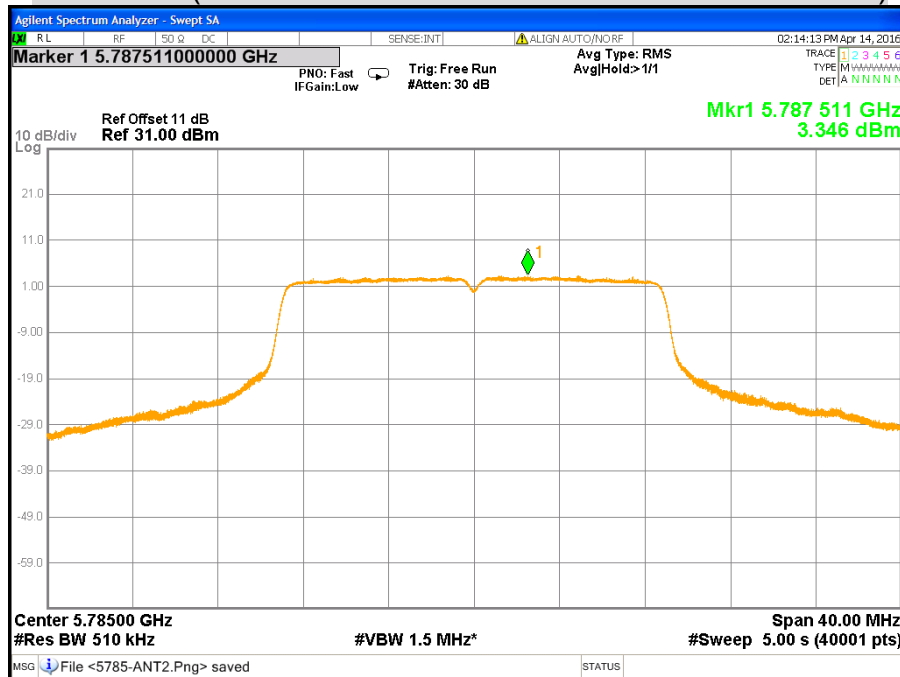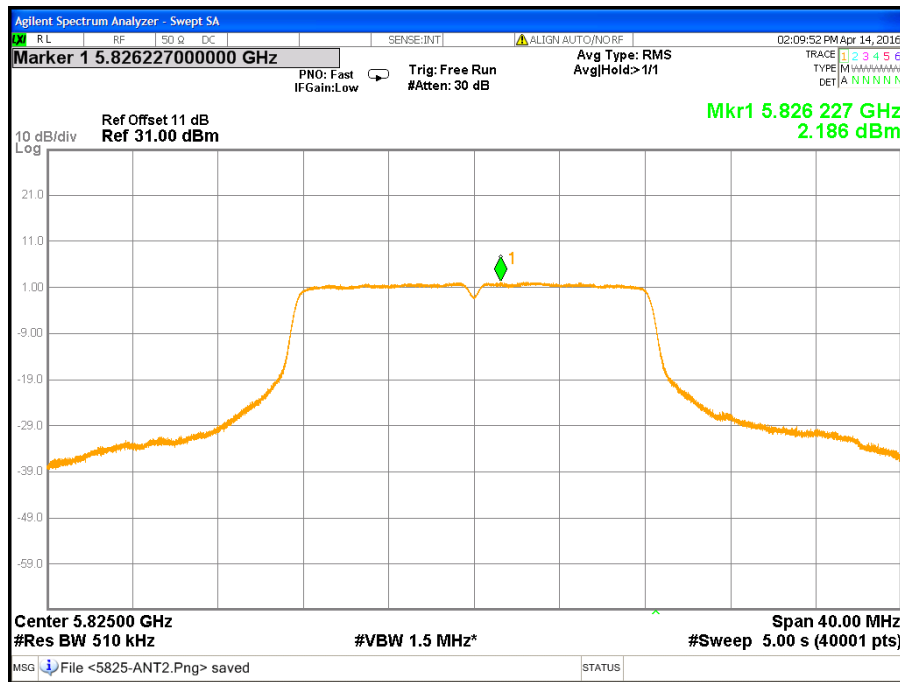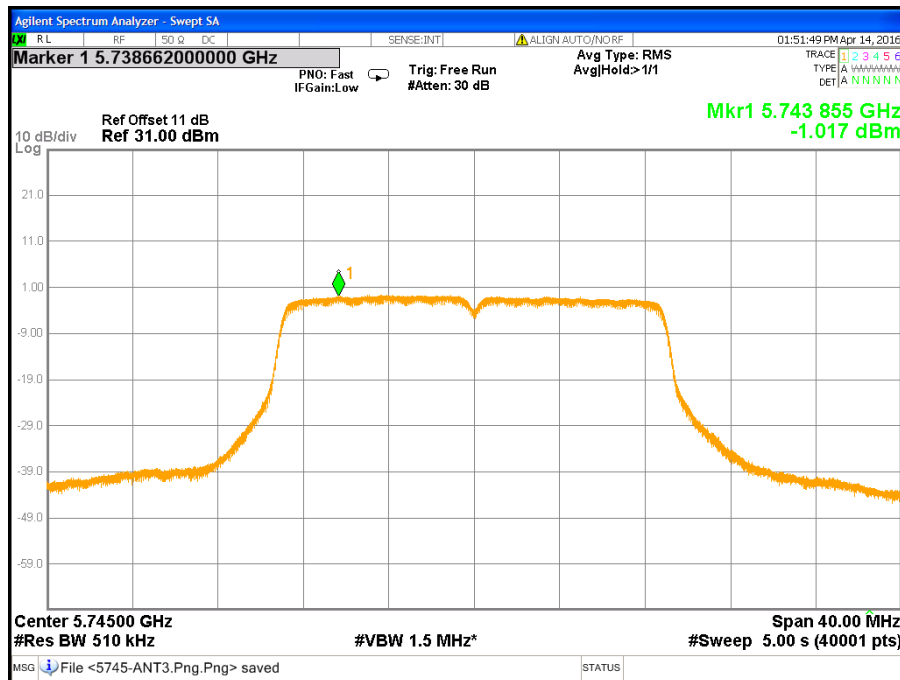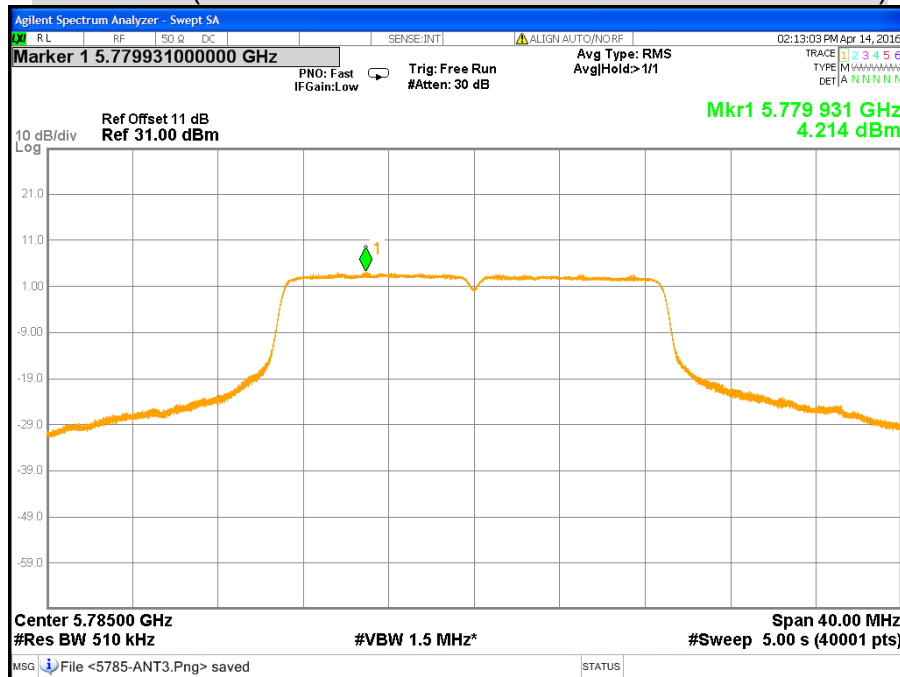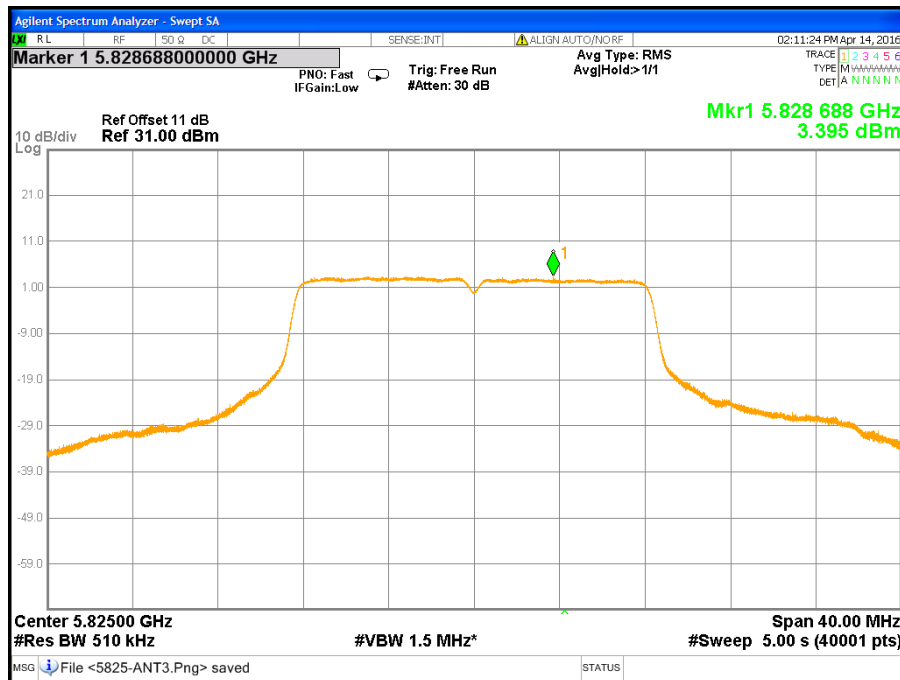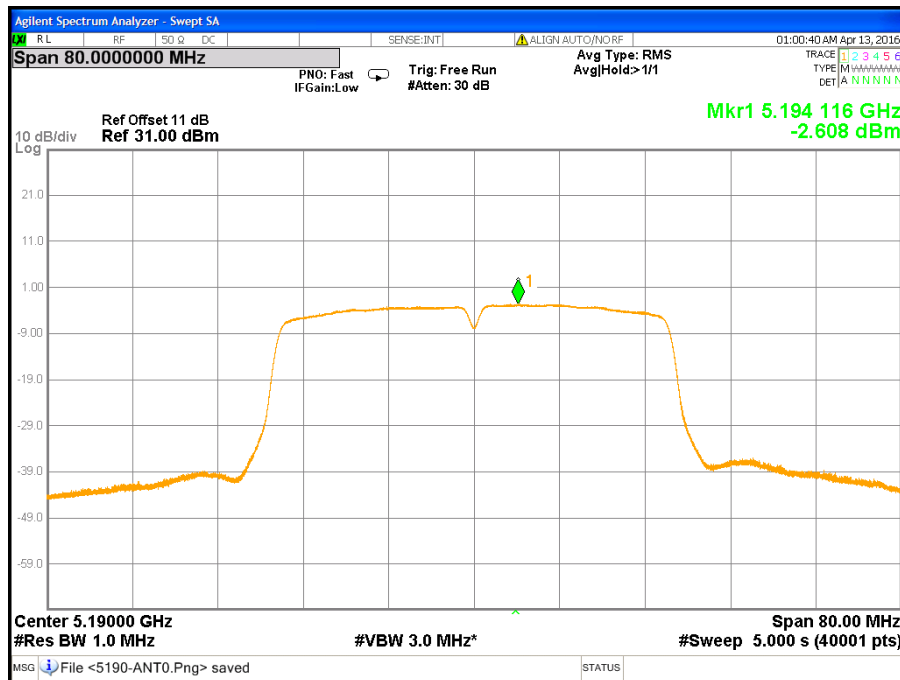## CH Middle (IEEE 802.11ac VHT20 Mode / Band 3 / Chain 3)

CH High (IEEE 802.11ac VHT20 Mode / Band 3 / Chain 3)

CH Low (IEEE 802.11ac VHT40 Mode / Band 1 / Chain 0)

CH High (IEEE 802.11ac VHT40 Mode / Band 1 / Chain 0)

CH Low (IEEE 802.11ac VHT40 Mode / Band 1 / Chain 1)
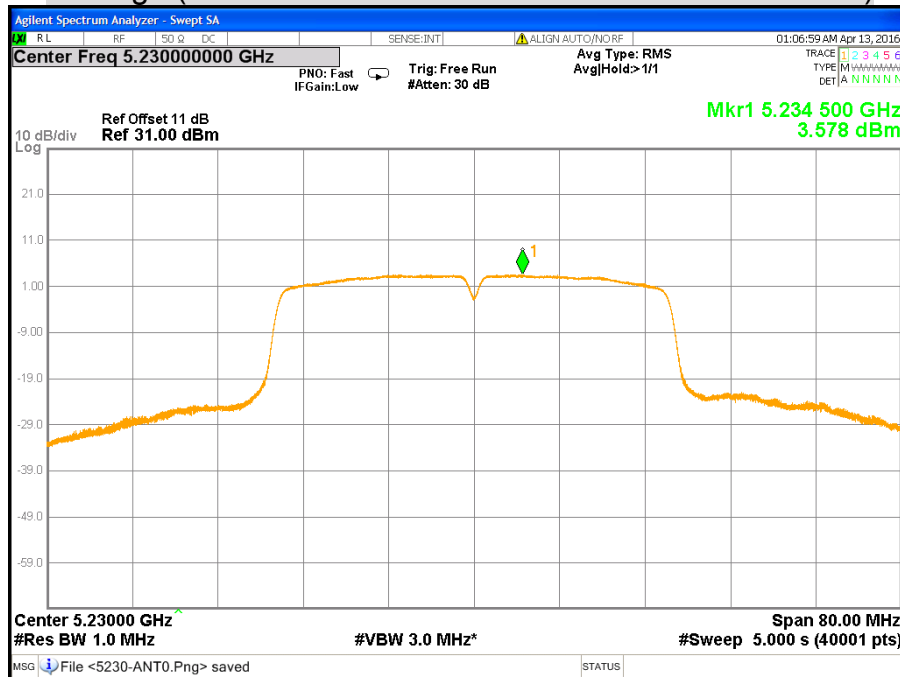

CH High (IEEE 802.11ac VHT40 Mode / Band 1 / Chain 1)

CH Low (IEEE 802.11ac VHT40 Mode / Band 1 / Chain 2)

CH High (IEEE 802.11ac VHT40 Mode / Band 1 / Chain 2)

CH Low (IEEE 802.11ac VHT40 Mode / Band 1 / Chain 3)

Agilent Spectrum Analyzer - Swept SA

R L   RF   50 Ω   DC   SENSE:INT   ALIGN AUTO/NORF   01:02:26 AM Apr 13, 2016

Span 80.0000000 MHz

PNO: Fast   Trig: Free Run   Avg Type: RMS   TRACE 1 2 3 4 5 6
IFGain:Low   #Atten: 30 dB   Avg|Hold:>1/1   TYPE M W W W W W
                                              DET A N N N N N

Ref Offset 11 dB
10 dB/div   Ref 31.00 dBm

Mkr1 5.193 232 GHz
-2.461 dBm

Center 5.19000 GHz   Span 80.00 MHz
#Res BW 1.0 MHz   #VBW 3.0 MHz*   #Sweep 5.000 s (40001 pts)

MSG File <5190-ANT3.Png> saved   STATUS

CH High (IEEE 802.11ac VHT40 Mode / Band 1 / Chain 3)

Agilent Spectrum Analyzer - Swept SA

R L   RF   50 Ω   DC   SENSE:INT   ALIGN AUTO/NORF   01:03:50 AM Apr 13, 2016

Center Freq 5.230000000 GHz

PNO: Fast   Trig: Free Run   Avg Type: RMS   TRACE 1 2 3 4 5 6
IFGain:Low   #Atten: 30 dB   Avg|Hold:>1/1   TYPE M W W W W W
                                              DET A N N N N N

Ref Offset 11 dB
10 dB/div   Ref 31.00 dBm

Mkr1 5.233 330 GHz
3.717 dBm

Center 5.23000 GHz   Span 80.00 MHz
#Res BW 1.0 MHz   #VBW 3.0 MHz*   #Sweep 5.000 s (40001 pts)

MSG File <5230-ANT3.Png> saved   STATUS

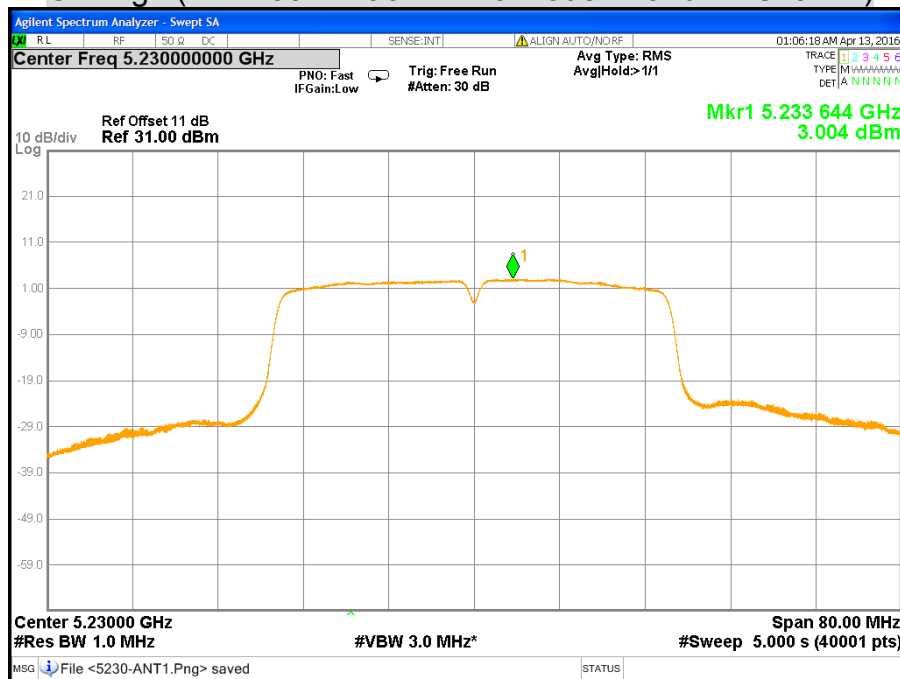## CH Low (IEEE 802.11ac VHT40 Mode / Band 3 / Chain 0)

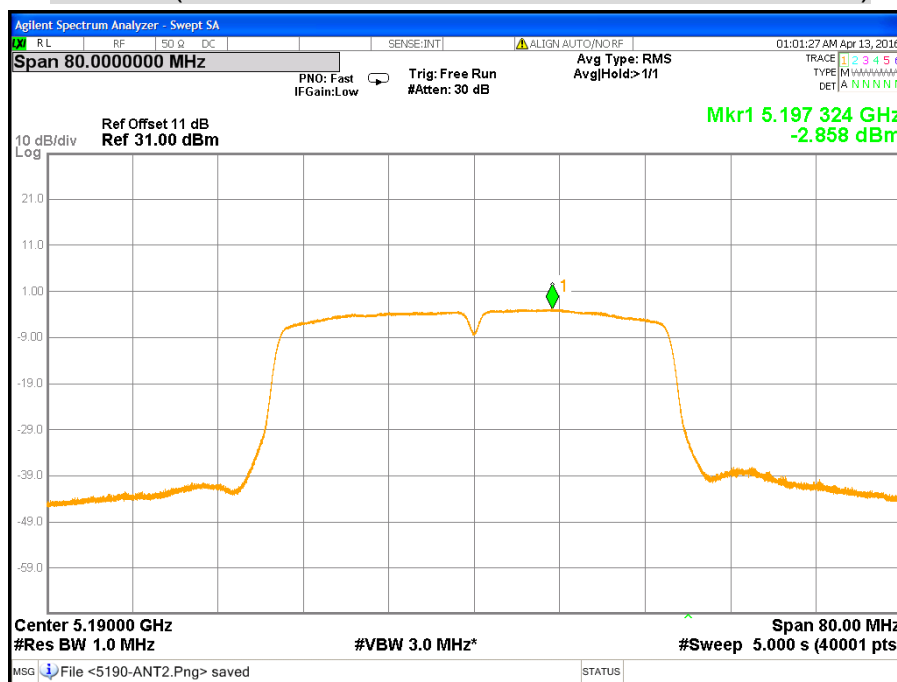## CH High (IEEE 802.11ac VHT40 Mode / Band 3 / Chain 0)

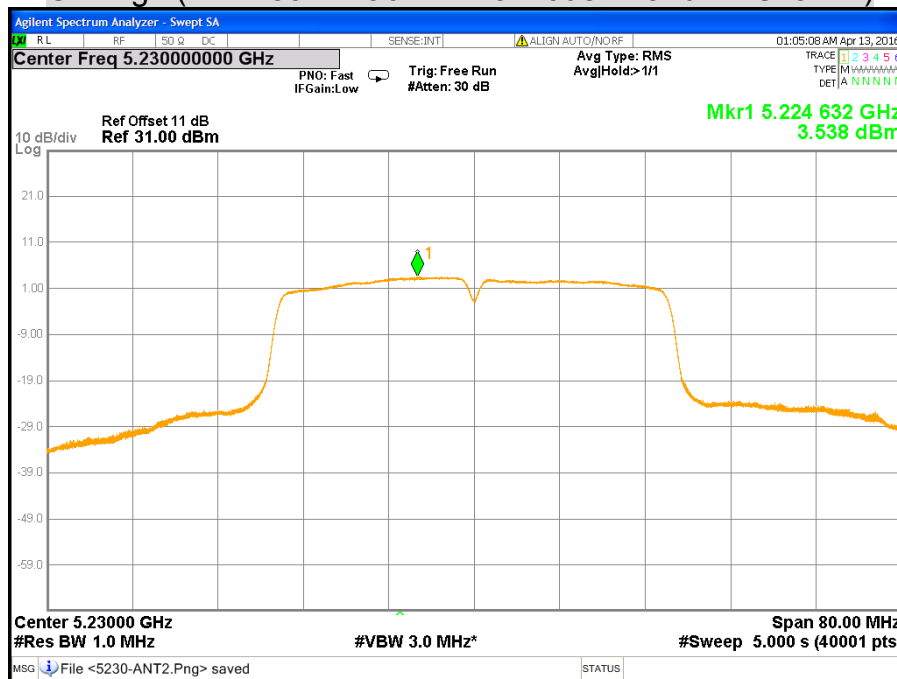## CH Low (IEEE 802.11ac VHT40 Mode / Band 3 / Chain 1)

CH High (IEEE 802.11ac VHT40 Mode / Band 3 / Chain 1)
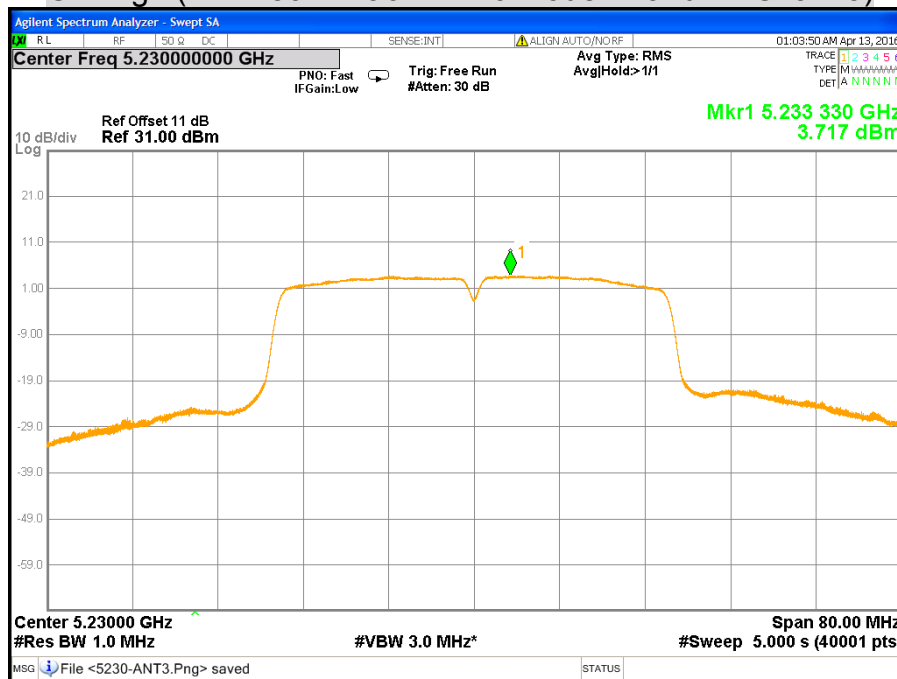
CH Low (IEEE 802.11ac VHT40 Mode / Band 3 / Chain 2)

CH High (IEEE 802.11ac VHT40 Mode / Band 3 / Chain 2)

CH Low (IEEE 802.11ac VHT40 Mode / Band 3 / Chain 3)

CH High (IEEE 802.11ac VHT40 Mode / Band 3 / Chain 3)

CH Low (IEEE 802.11ac VHT80 Mode / Band 1 / Chain 0)

CH Low (IEEE 802.11ac VHT80 Mode / Band 1 / Chain 1)

CH Low (IEEE 802.11ac VHT80 Mode / Band 1 / Chain 2)

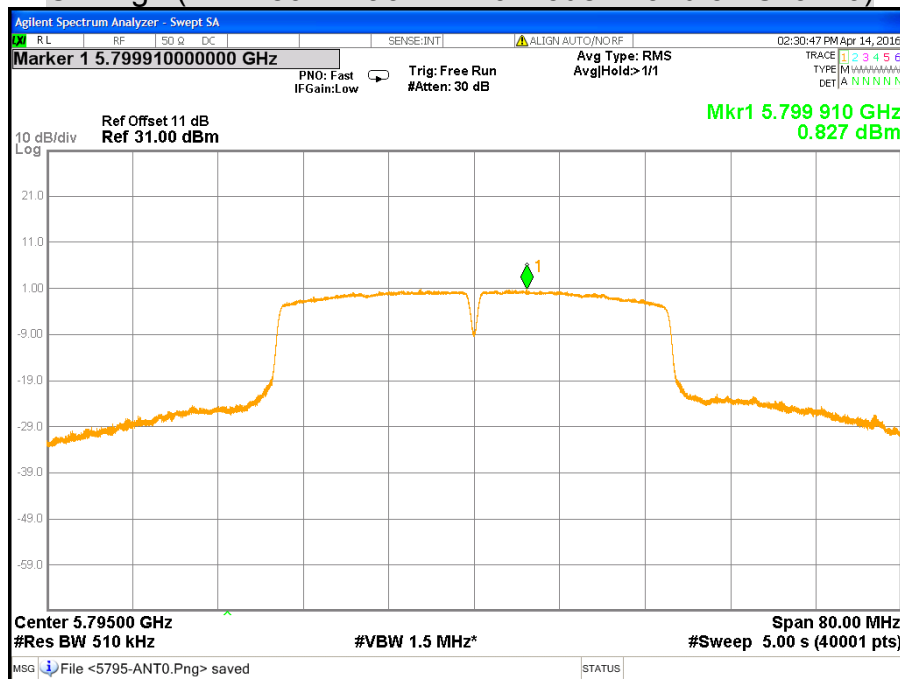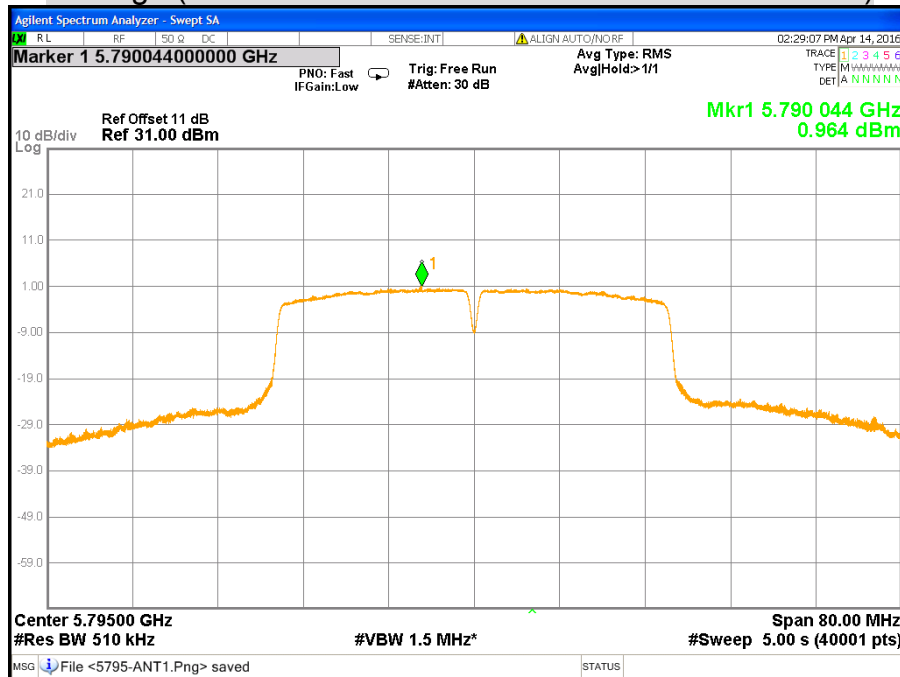
CH Low (IEEE 802.11ac VHT80 Mode / Band 1 / Chain 3)

CH Low (IEEE 802.11ac VHT80 Mode / Band 3 / Chain 0)

CH Low (IEEE 802.11ac VHT80 Mode / Band 3 / Chain 1)

CH Low (IEEE 802.11ac VHT80 Mode / Band 3 / Chain 2)

CH Low (IEEE 802.11ac VHT80 Mode / Band 3 / Chain 3)

Beamforming

CH Low (IEEE 802.11ac VHT20 Mode / Band 1 / Chain 0)

CH Middle (IEEE 802.11ac VHT20 Mode / Band 1 / Chain 0)

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CH High (IEEE 802.11ac VHT20 Mode / Band 1 / Chain 0)

CH Low (IEEE 802.11ac VHT20 Mode / Band 1 / Chain 1)

CH Middle (IEEE 802.11ac VHT20 Mode / Band 1 / Chain 1)

CH High (IEEE 802.11ac VHT20 Mode / Band 1 / Chain 1)

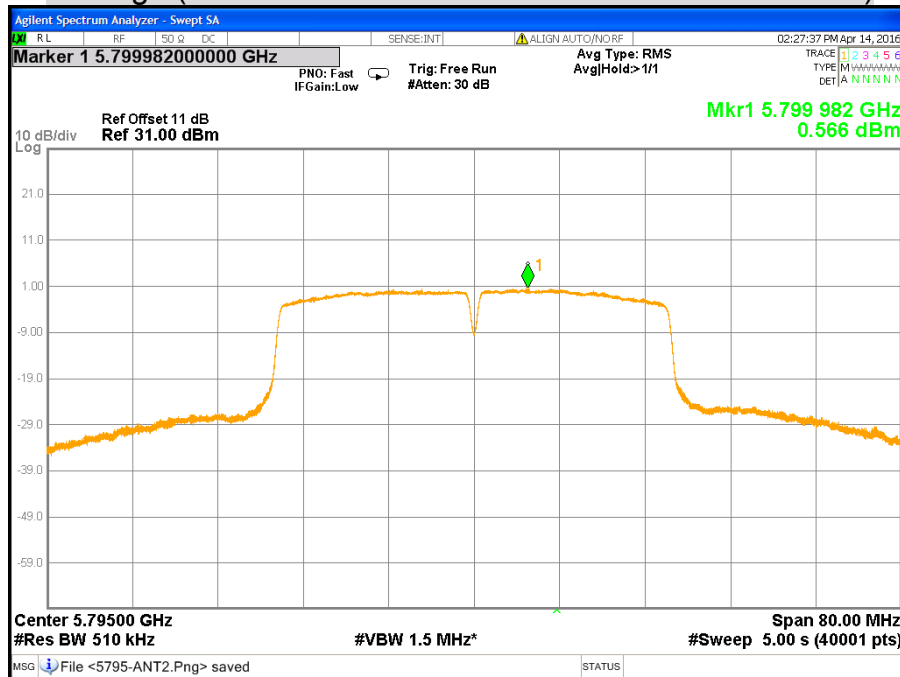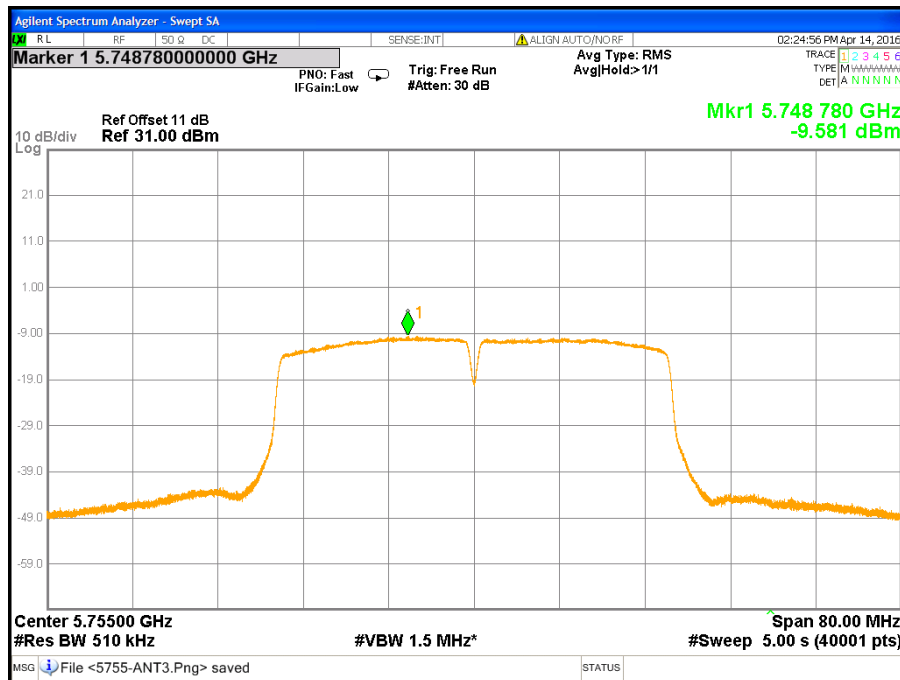## CH Low (IEEE 802.11ac VHT20 Mode / Band 1 / Chain 2)

CH Middle (IEEE 802.11ac VHT20 Mode / Band 1 / Chain 2)

CH High (IEEE 802.11ac VHT20 Mode / Band 1 / Chain 2)

CH Low (IEEE 802.11ac VHT20 Mode / Band 1 / Chain 3)

CH Middle (IEEE 802.11ac VHT20 Mode / Band 1 / Chain 3)

CH High (IEEE 802.11ac VHT20 Mode / Band 1 / Chain 3)
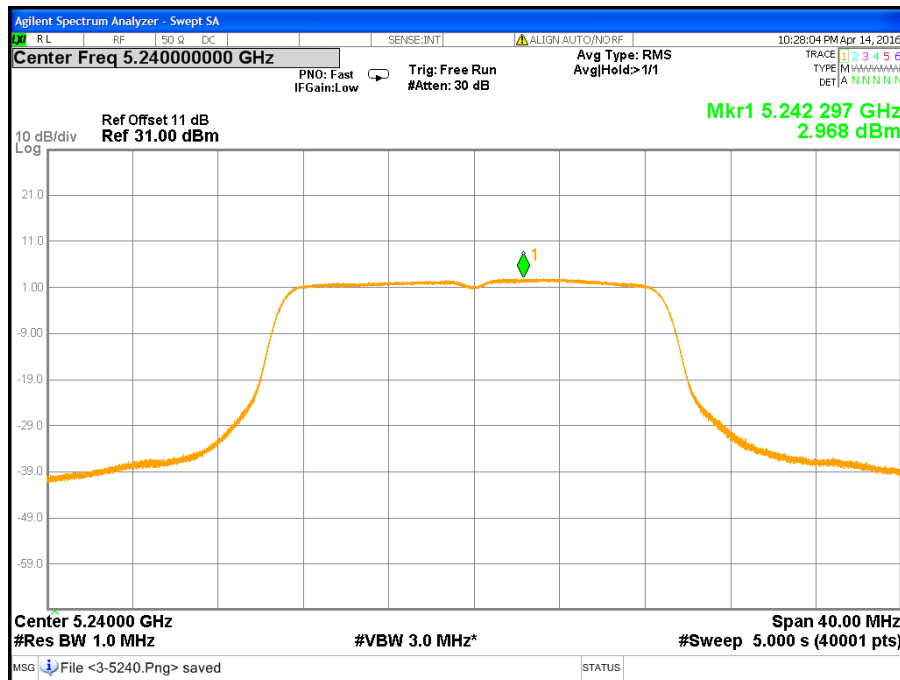
CH Low (IEEE 802.11ac VHT20 Mode / Band 3 / Chain 0)
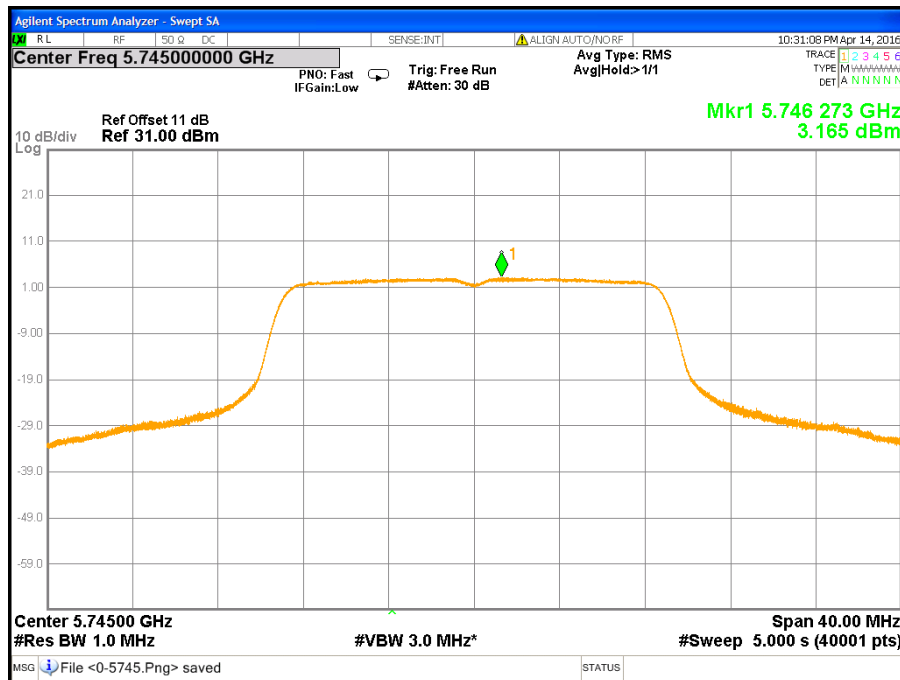
CH Middle (IEEE 802.11ac VHT20 Mode / Band 3 / Chain 0)
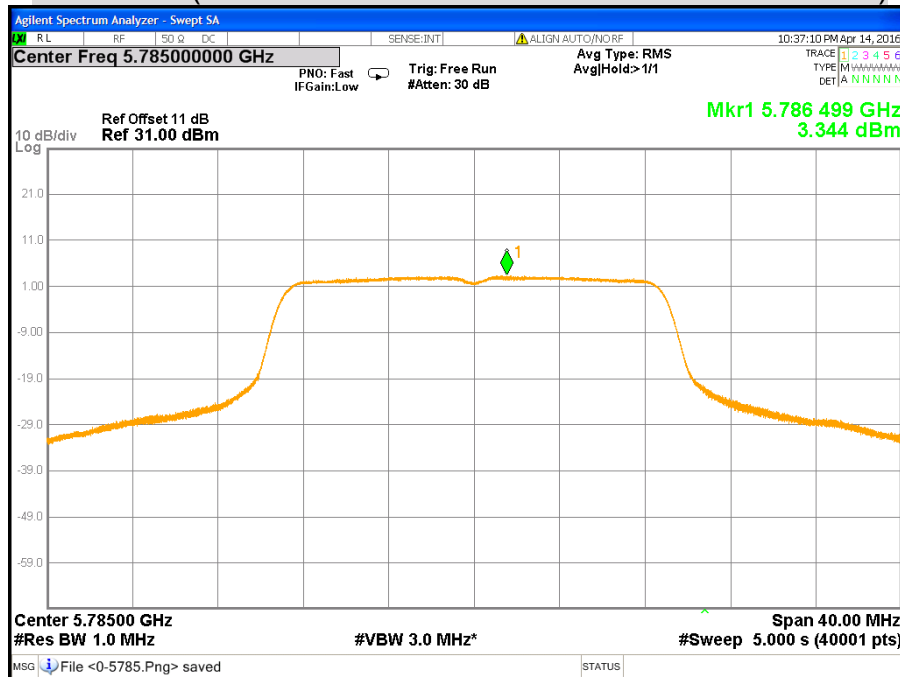
CH High (IEEE 802.11ac VHT20 Mode / Band 3 / Chain 0)
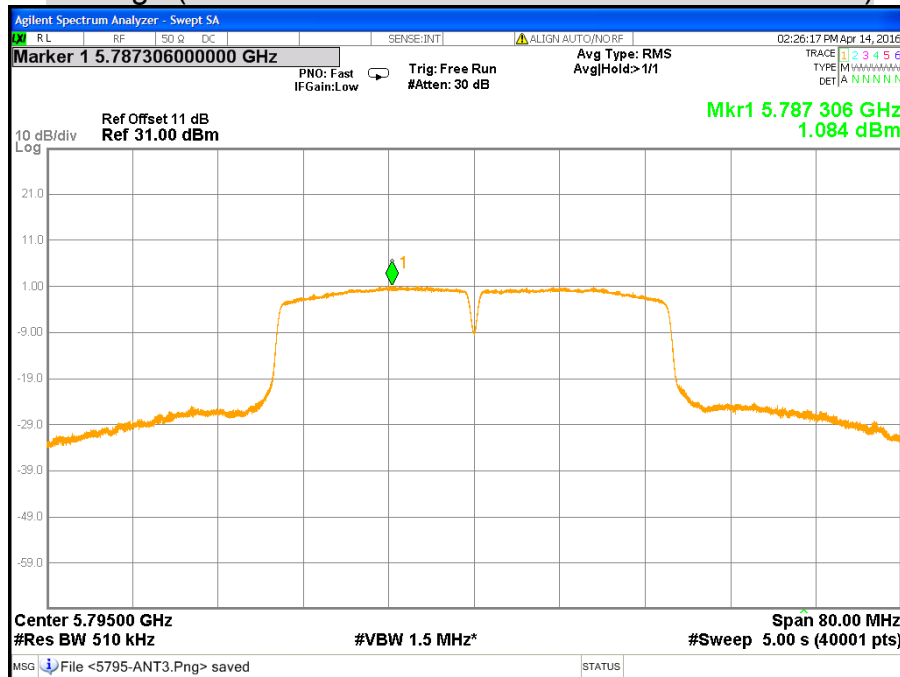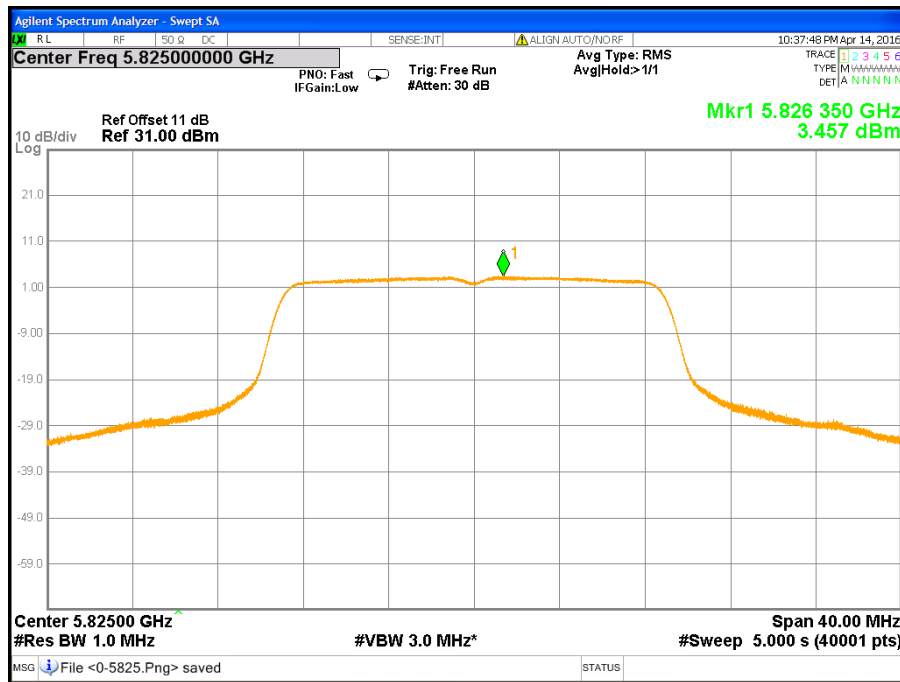
CH Low (IEEE 802.11ac VHT20 Mode / Band 3 / Chain 1)
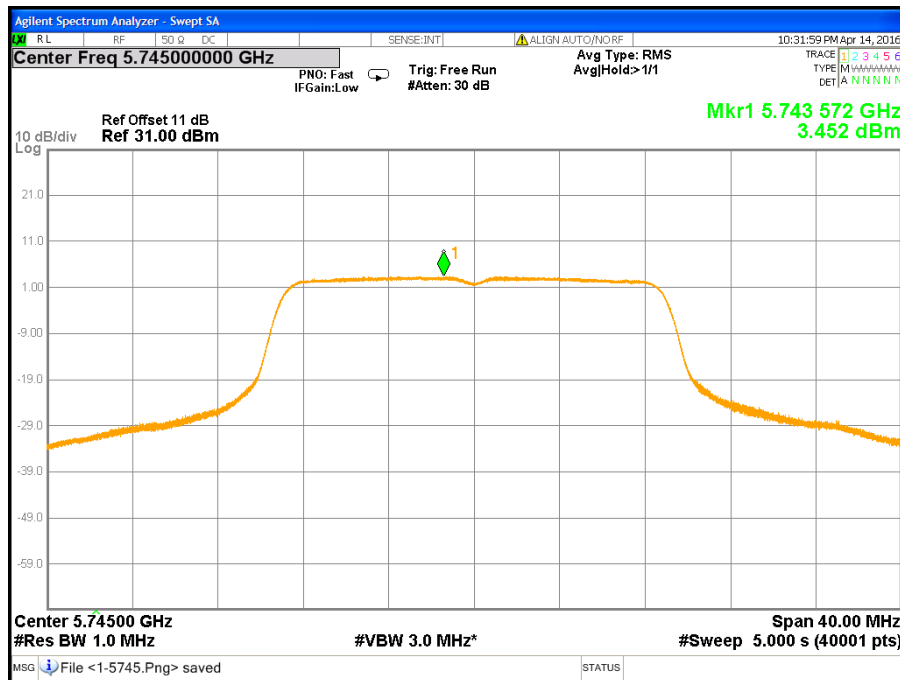
CH Middle (IEEE 802.11ac VHT20 Mode / Band 3 / Chain 1)
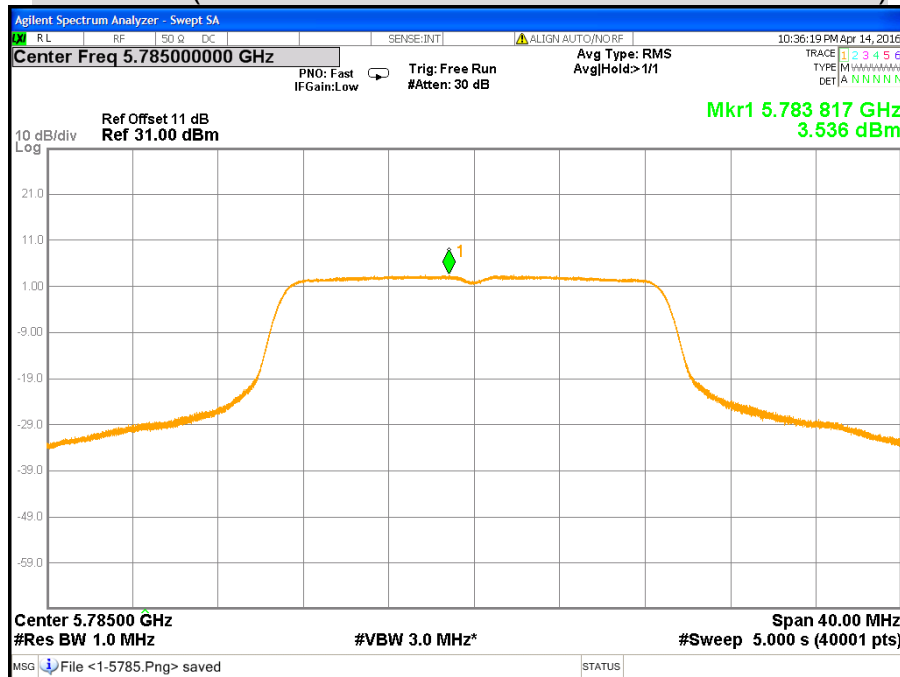
CH High (IEEE 802.11ac VHT20 Mode / Band 3 / Chain 1)
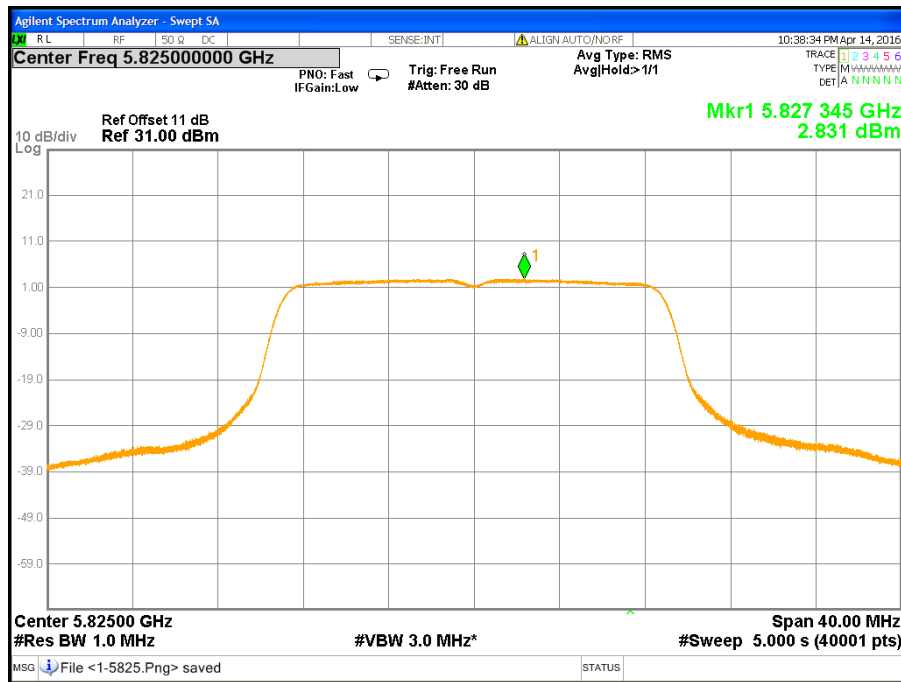
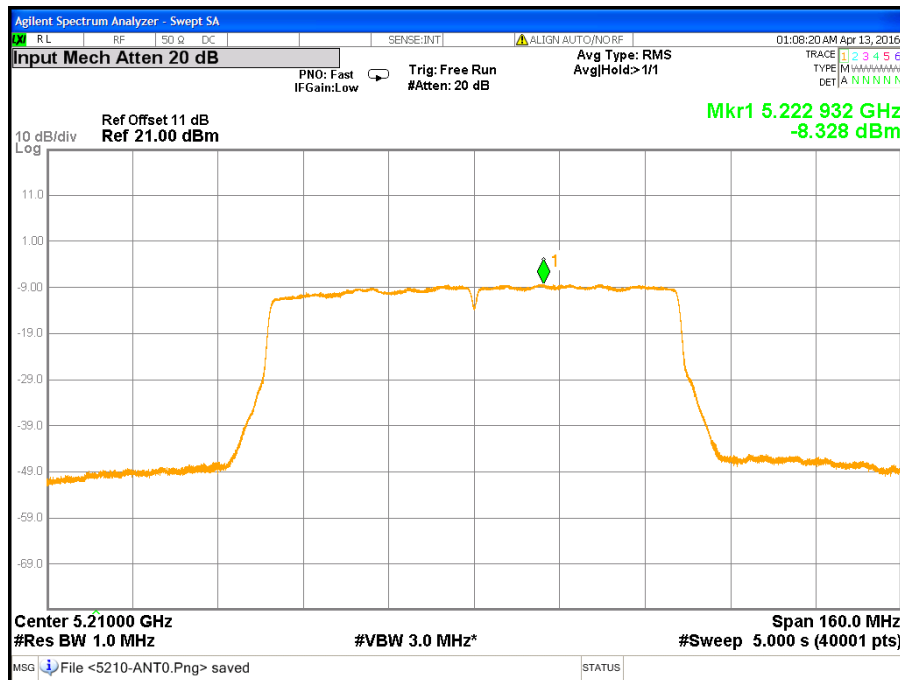## CH Low (IEEE 802.11ac VHT20 Mode / Band 3 / Chain 2)

CH Middle (IEEE 802.11ac VHT20 Mode / Band 3 / Chain 2)

CH High (IEEE 802.11ac VHT20 Mode / Band 3 / Chain 2)

CH Low (IEEE 802.11ac VHT20 Mode / Band 3 / Chain 3)

CH Middle (IEEE 802.11ac VHT20 Mode / Band 3 / Chain 3)

CH High (IEEE 802.11ac VHT20 Mode / Band 3 / Chain 3)

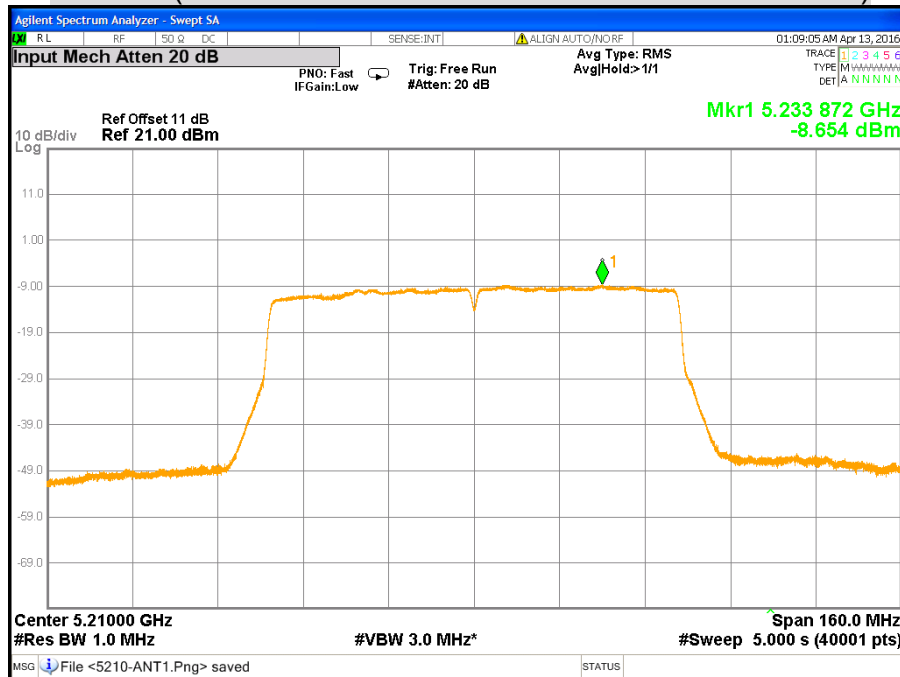## CH Low (IEEE 802.11ac VHT40 Mode / Band 1 / Chain 0)
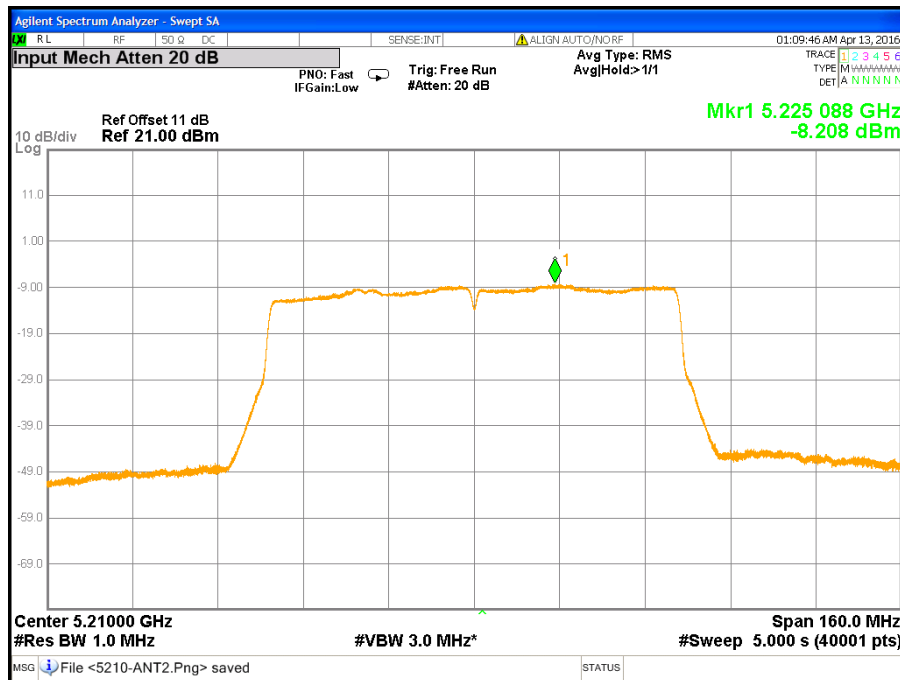

CH High (IEEE 802.11ac VHT40 Mode / Band 1 / Chain 0)

CH Low (IEEE 802.11ac VHT40 Mode / Band 1 / Chain 1)

CH High (IEEE 802.11ac VHT40 Mode / Band 1 / Chain 1)

CH Low (IEEE 802.11ac VHT40 Mode / Band 1 / Chain 2)

CH High (IEEE 802.11ac VHT40 Mode / Band 1 / Chain 2)

CH Low (IEEE 802.11ac VHT40 Mode / Band 1 / Chain 3)

CH High (IEEE 802.11ac VHT40 Mode / Band 1 / Chain 3)
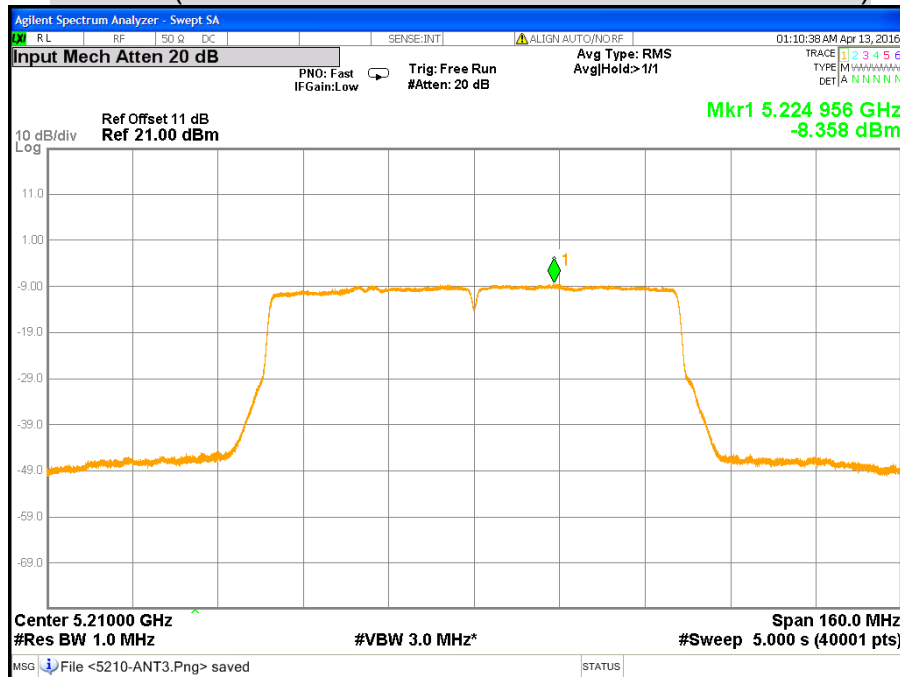
CH Low (IEEE 802.11ac VHT40 Mode / Band 3 / Chain 0)

CH High (IEEE 802.11ac VHT40 Mode / Band 3 / Chain 0)

CH Low (IEEE 802.11ac VHT40 Mode / Band 3 / Chain 1)

CH High (IEEE 802.11ac VHT40 Mode / Band 3 / Chain 1)

CH Low (IEEE 802.11ac VHT40 Mode / Band 3 / Chain 2)
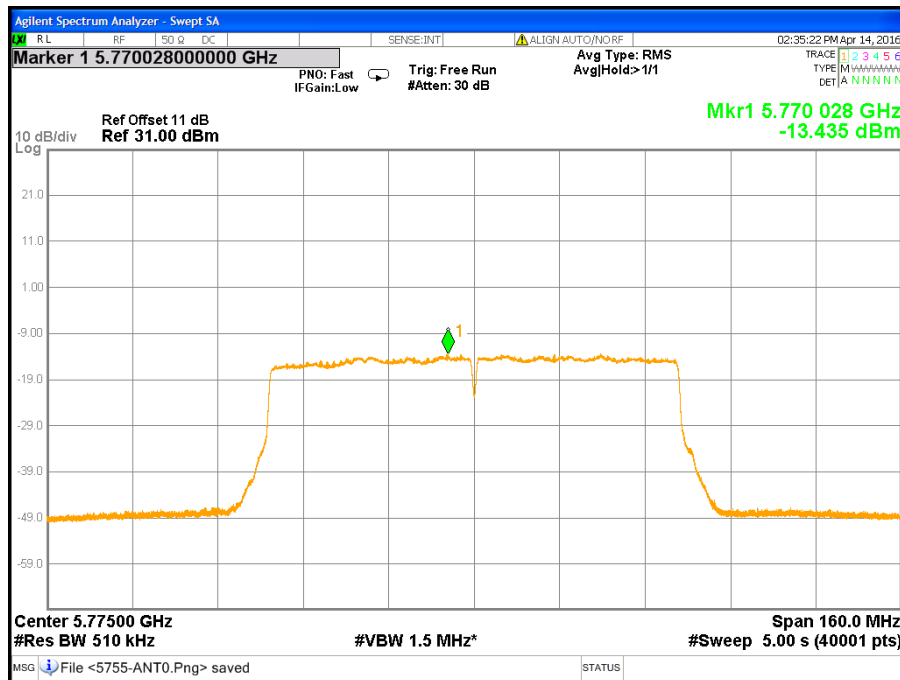

CH High (IEEE 802.11ac VHT40 Mode / Band 3 / Chain 2)

CH Low (IEEE 802.11ac VHT40 Mode / Band 3 / Chain 3)

Agilent Spectrum Analyzer - Swept SA

R L   RF   50 Ω DC   SENSE:INT   ALIGN AUTO/NORF   10:49:26 PM Apr 14, 2016

Center Freq 5.755000000 GHz   Avg Type: RMS   TRACE 1 2 3 4 5 6

PNO: Fast   Trig: Free Run   Avg|Hold:>1/1   TYPE M W W W W W W

IFGain:Low   #Atten: 30 dB   DET A N N N N N

Ref Offset 11 dB   **Mkr1 5.750 006 GHz**

10 dB/div   **Ref 31.00 dBm**   **-0.676 dBm**

Log

Center 5.75500 GHz   Span 80.00 MHz

#Res BW 1.0 MHz   #VBW 3.0 MHz*   #Sweep 5.000 s (40001 pts)

MSG File <3-5755.Png> saved   STATUS

CH High (IEEE 802.11ac VHT40 Mode / Band 3 / Chain 3)

Agilent Spectrum Analyzer - Swept SA

R L   RF   50 Ω DC   SENSE:INT   ALIGN AUTO/NORF   10:54:42 PM Apr 14, 2016

Center Freq 5.795000000 GHz   Avg Type: RMS   TRACE 1 2 3 4 5 6

PNO: Fast   Trig: Free Run   Avg|Hold:>1/1   TYPE M W W W W W W

IFGain:Low   #Atten: 30 dB   DET A N N N N N

Ref Offset 11 dB   **Mkr1 5.789 796 GHz**

10 dB/div   **Ref 31.00 dBm**   **2.535 dBm**

Log

Center 5.79500 GHz   Span 80.00 MHz

#Res BW 1.0 MHz   #VBW 3.0 MHz*   #Sweep 5.000 s (40001 pts)

MSG File <3-5795.Png> saved   STATUS

CH Low (IEEE 802.11ac VHT80 Mode / Band 1 / Chain 0)

CH Low (IEEE 802.11ac VHT80 Mode / Band 1 / Chain 1)

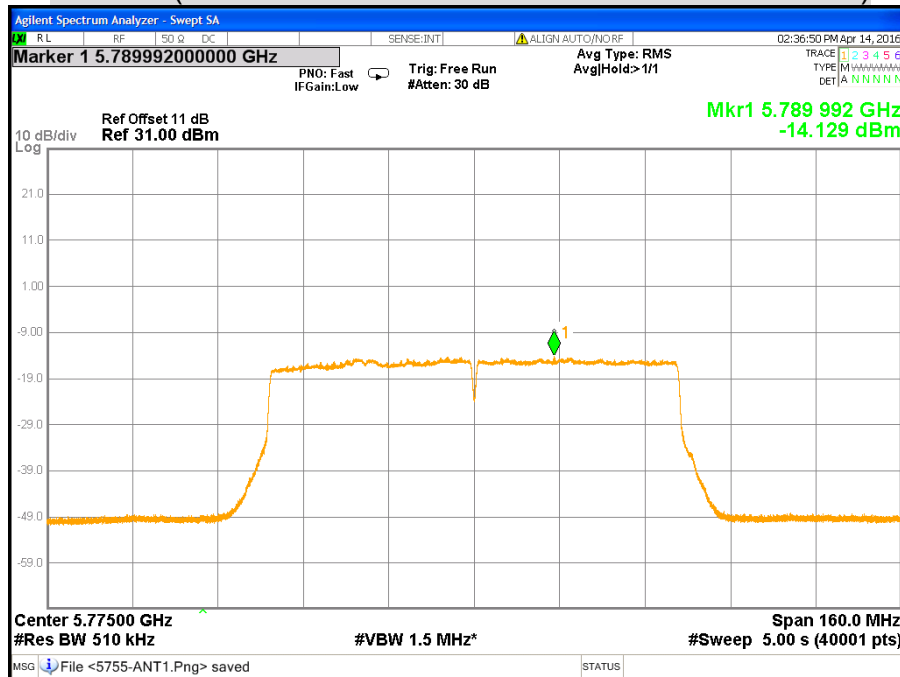## CH Low (IEEE 802.11ac VHT80 Mode / Band 1 / Chain 2)
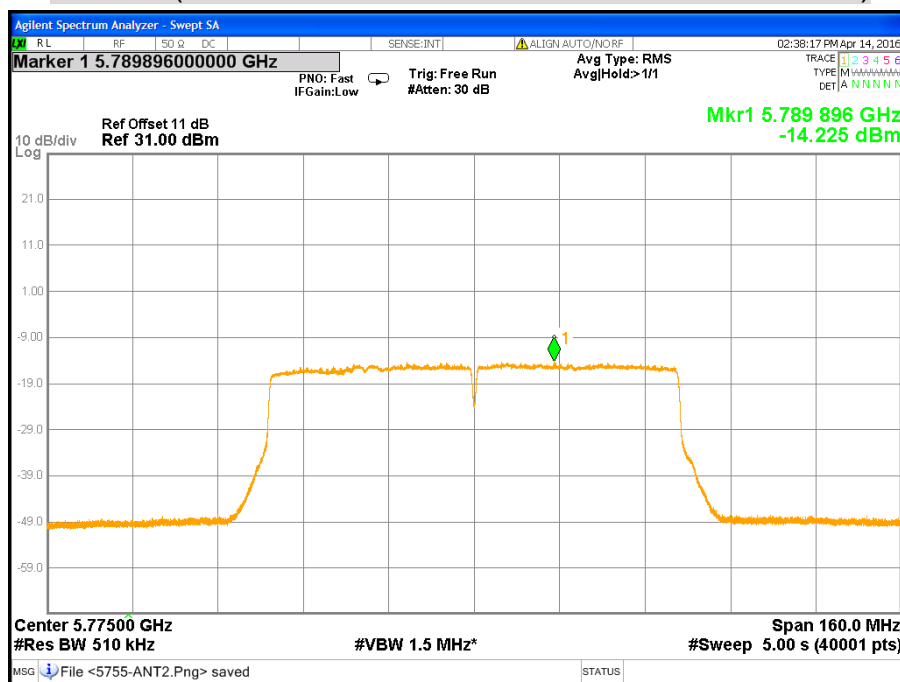

CH Low (IEEE 802.11ac VHT80 Mode / Band 1 / Chain 3)
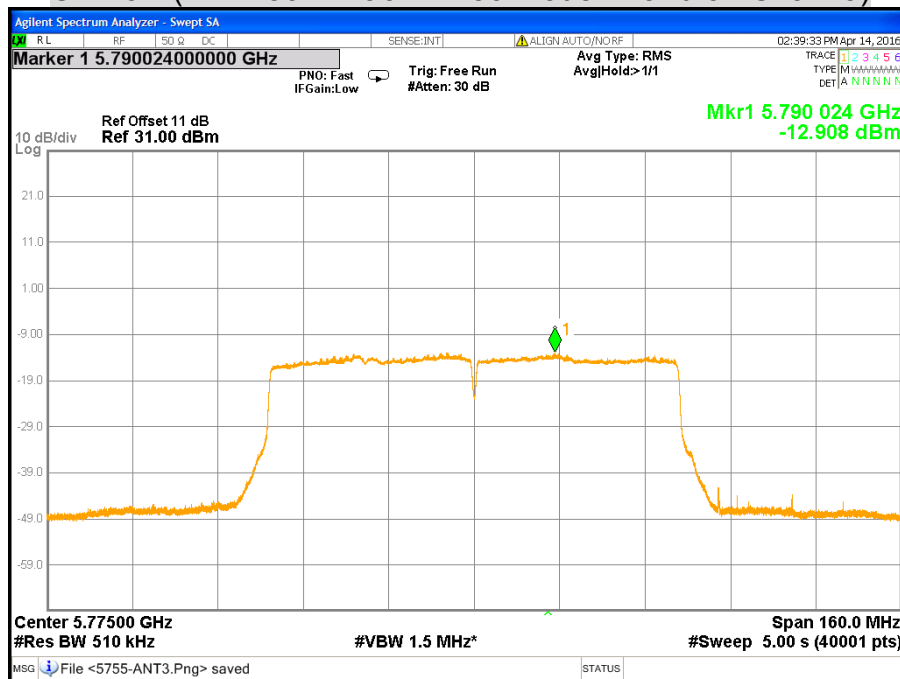
CH Low (IEEE 802.11ac VHT80 Mode / Band 3 / Chain 0)
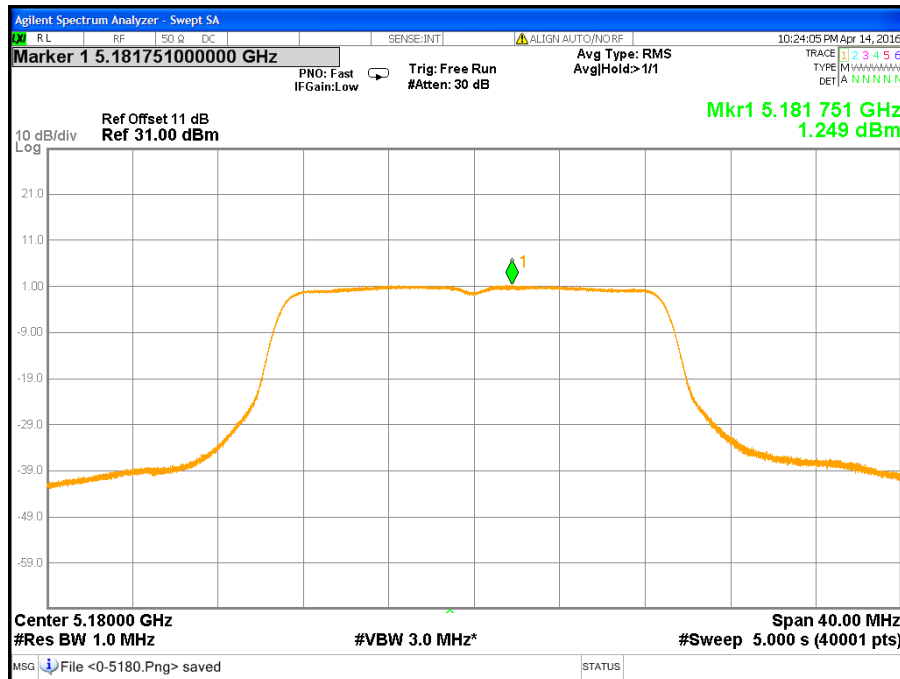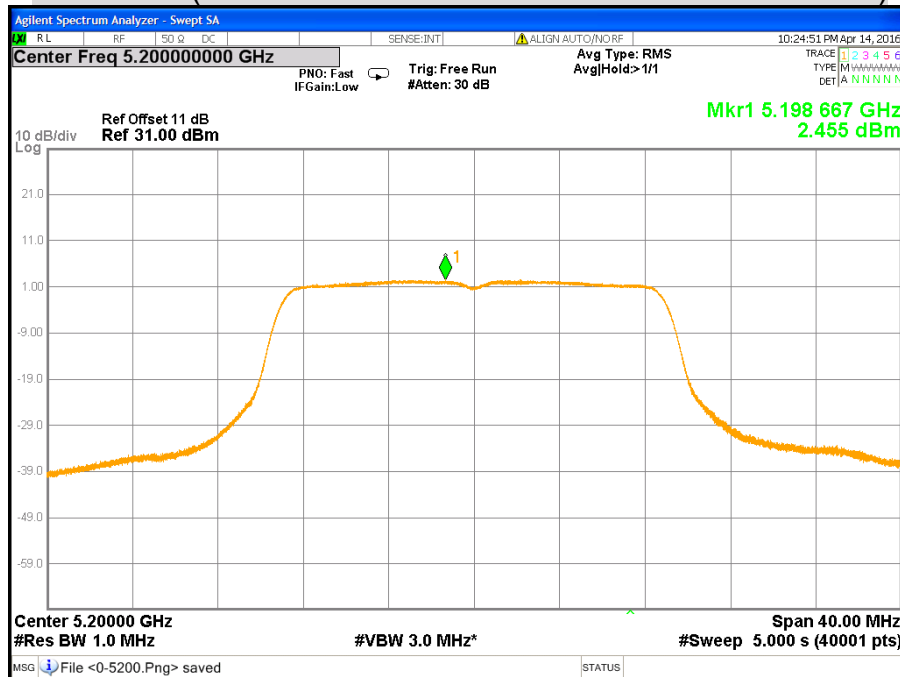

CH Low (IEEE 802.11ac VHT80 Mode / Band 3 / Chain 1)
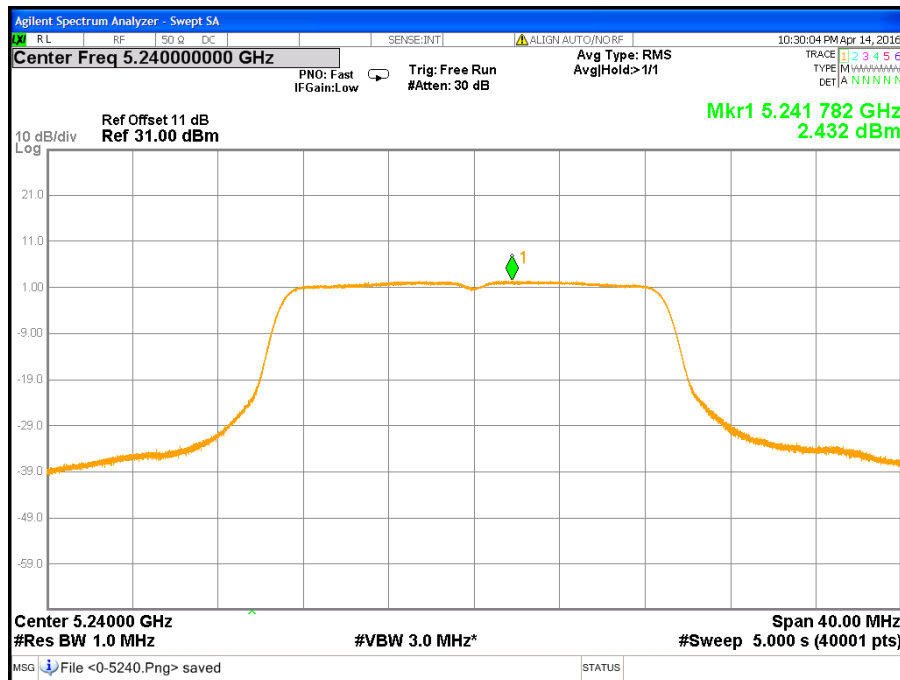
CH Low (IEEE 802.11ac VHT80 Mode / Band 3 / Chain 2)
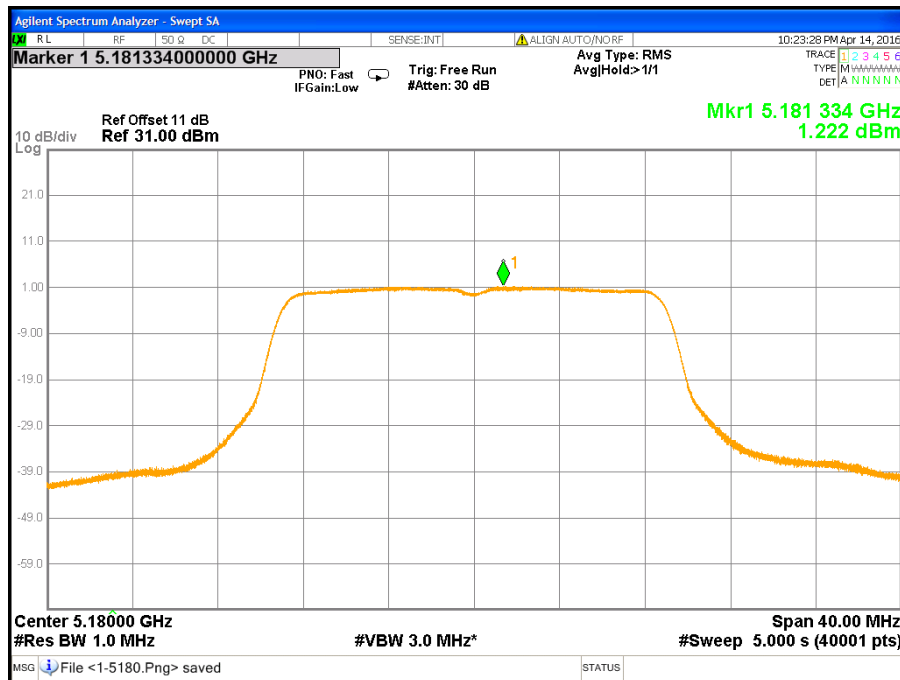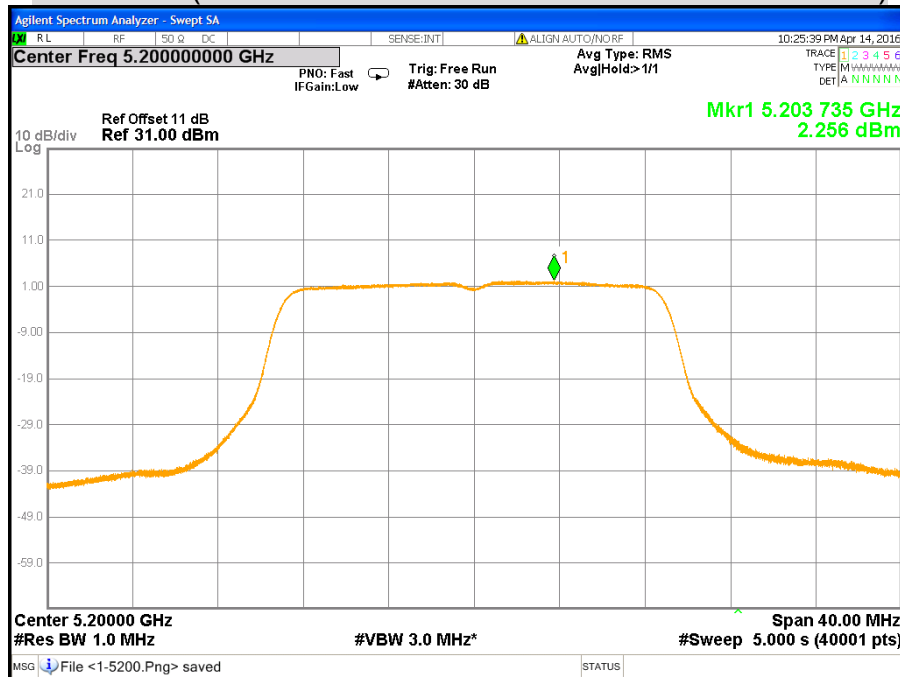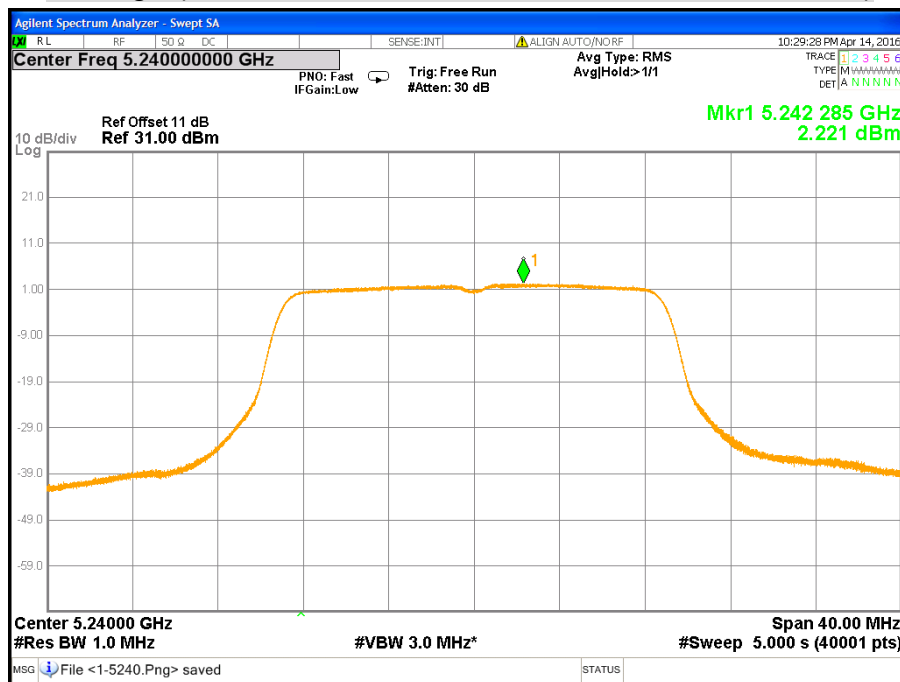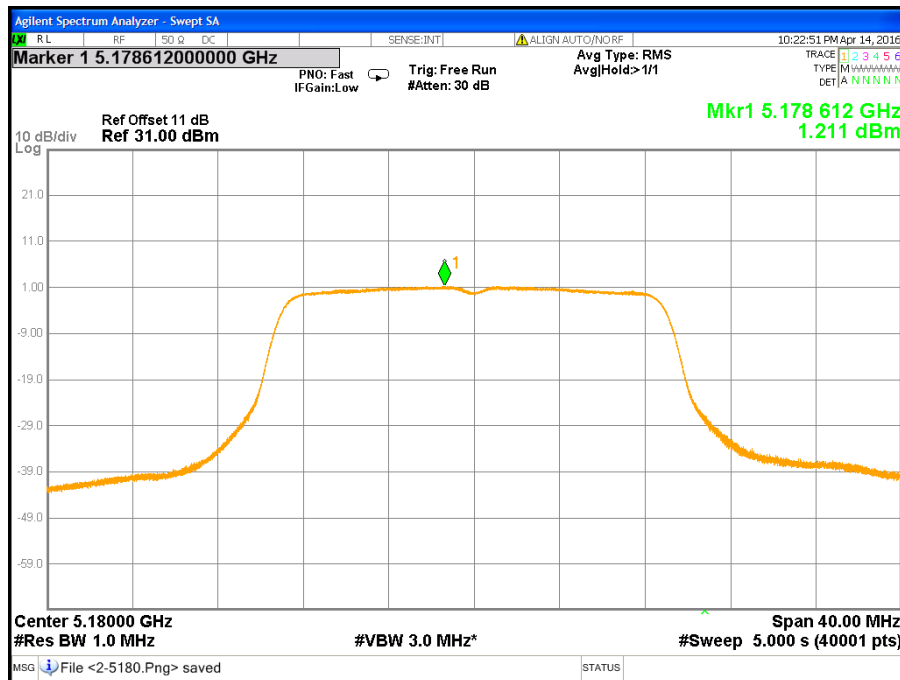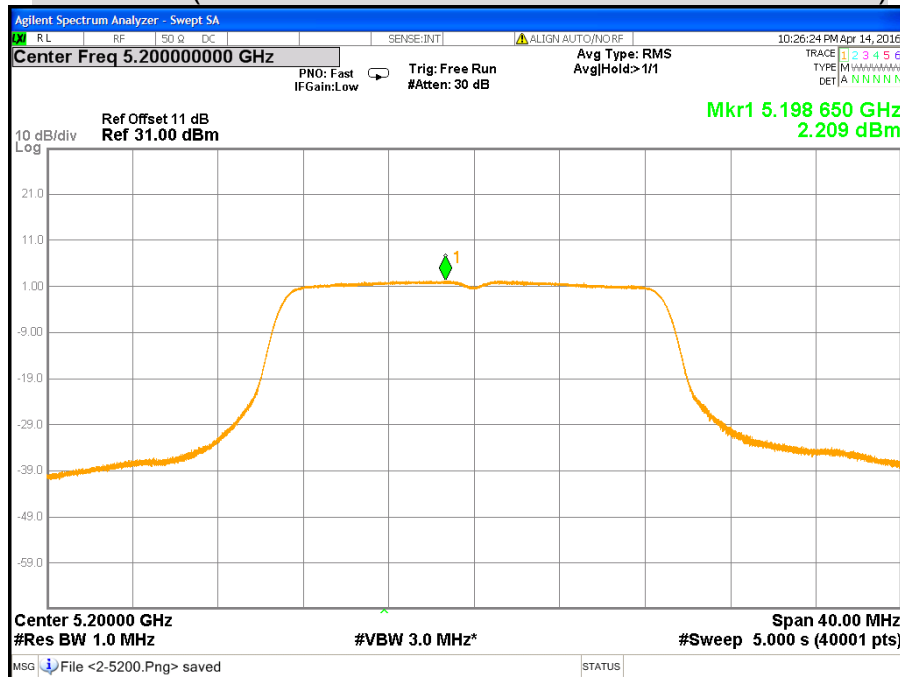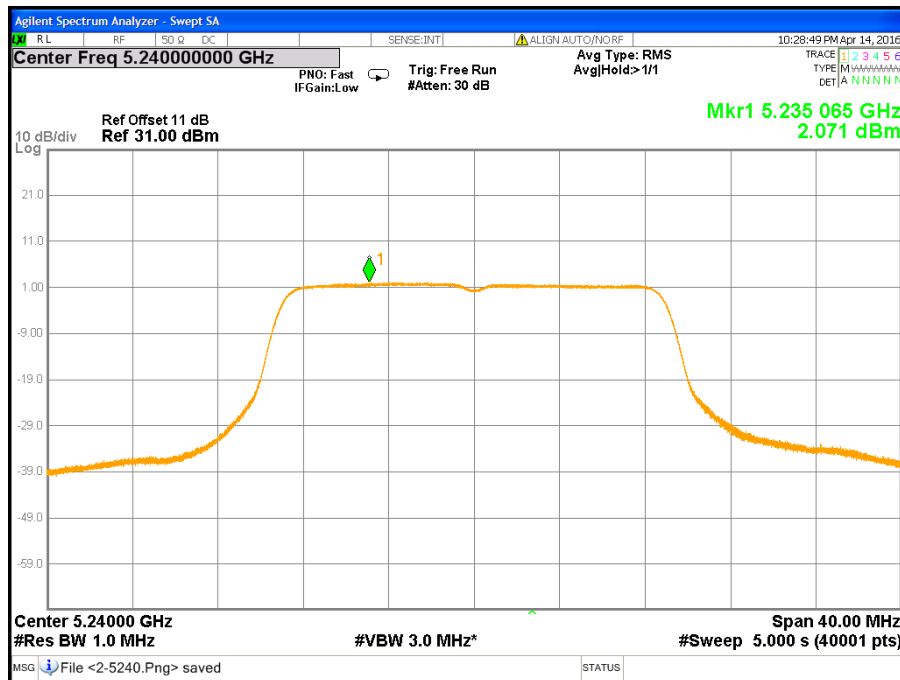

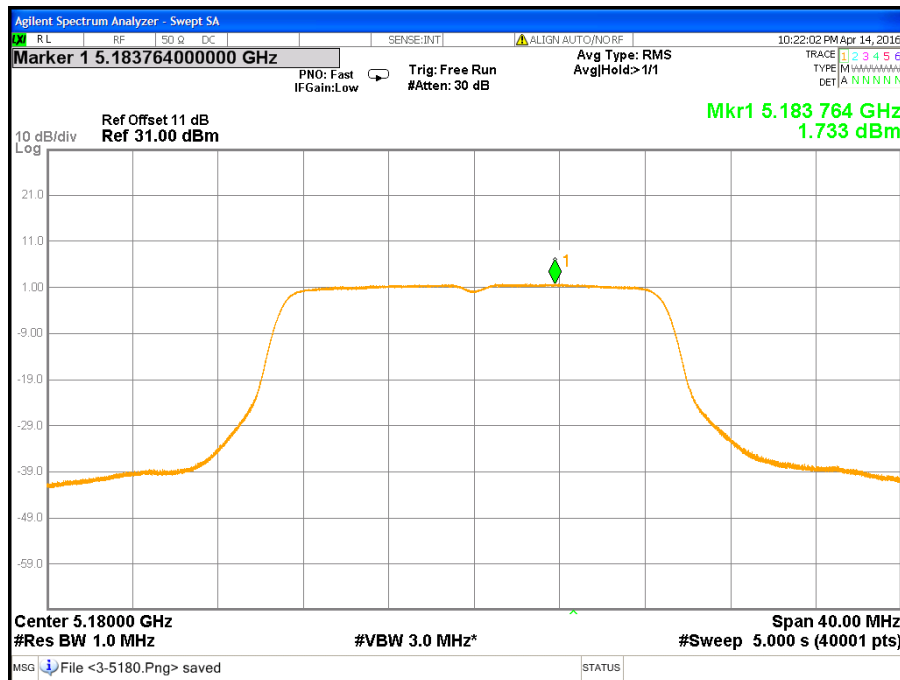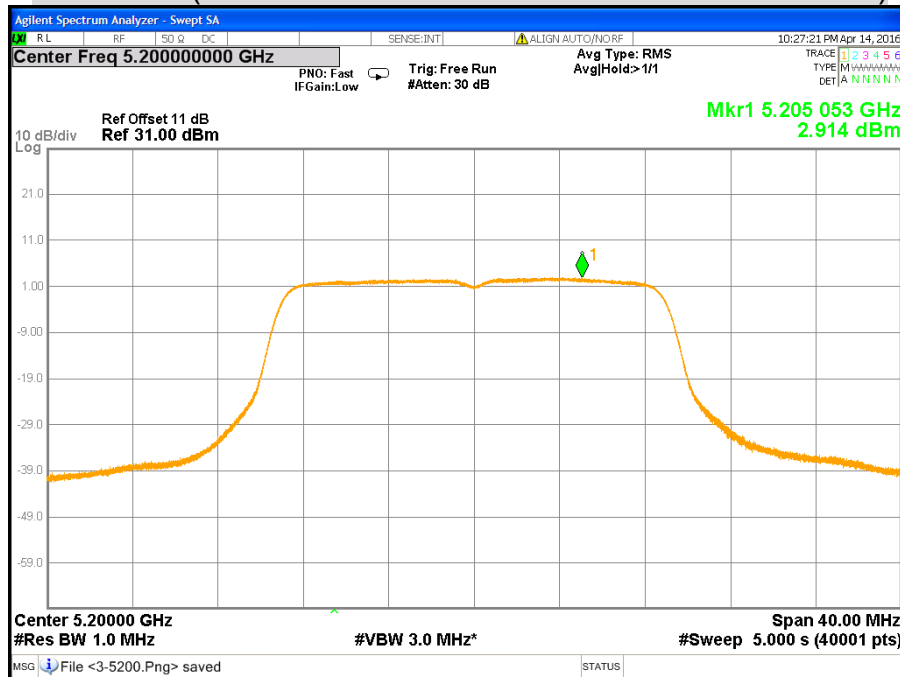## CH Low (IEEE 802.11ac VHT80 Mode / Band 3 / Chain 3)

7.5 RADIATED EMISSION

LIMITS

(1) According to § 15.205 (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 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 -1710	10.6 -12.7
6.26775 - 6.26825	108 -121.94	1718.8 - 1722.2	13.25 -13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 – 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 -16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3338	36.43 - 36.5
12.57675 - 12.57725	322 -335.4	3600 - 4400	([2])
13.36 - 13.41			

Remark:
1. [1] *Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.*
2. [2] *Above 38.6*

(2) According to § 15.205 (b) Except as provided in paragraphs (d) and (e) of this section, the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

(3) According to § 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(KHz)	300
0.490 – 1.705	24000/F(KHz)	30
1.705 – 30.0	30	30
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

Remark: ***Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.*

(4) According to § 15.209 (b) In the emission table above, the tighter limit applies at the band edges.

TEST EQUIPMENT

Radiated Emission / 966Chamber_B

Name of Equipment	Manufacture	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY46180323	04/12/2017
EMI Test Receiver	Rohde & Schwarz	ESCI	101131	03/15/2017
Bi-log Antenna	TESEQ	CBL 6112D	35403	08/04/2016
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120 D	9120D-778	08/09/2016
Double-Ridged Waveguide Horn	ETS-LINDGREN	3117	00078733	11/25/2016
Horn Antenna	COM-POWER	AH-840	03077	12/08/2016
Pre-Amplifier	Agilent	8447D	2944A10052	07/14/2016
Pre-Amplifier	Agilent	8449B	3008A01916	07/14/2016
LOOP Antenna	COM-POWER	AL-130	121060	05/24/2016
Test S/W	E3.815206a			

Remark: *Each piece of equipment is scheduled for calibration once a year.*

TEST SETUP

The diagram below shows the test setup that is utilized to make the measurements for emission below 1GHz.

9kHz ~ 30MHz
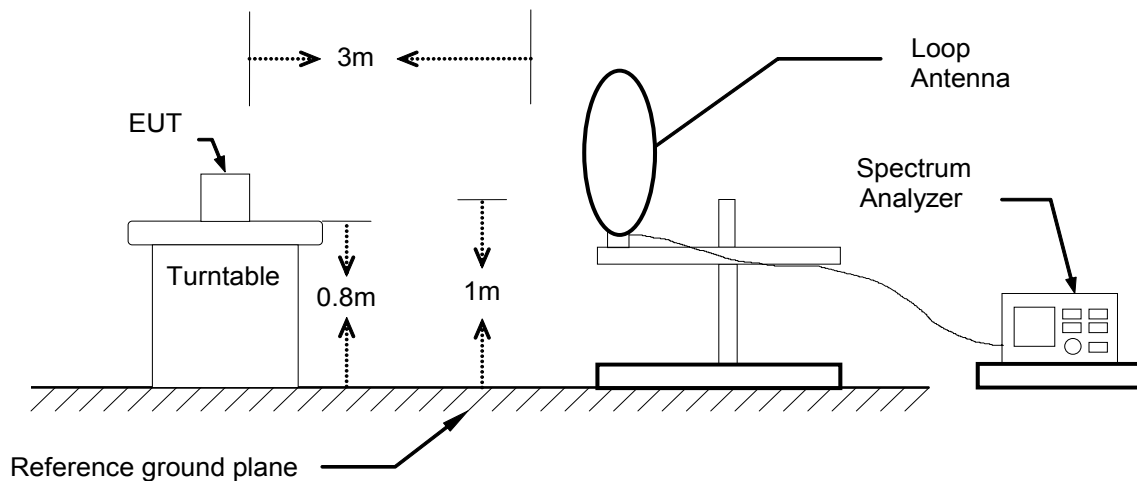
30MHz ~ 1GHz
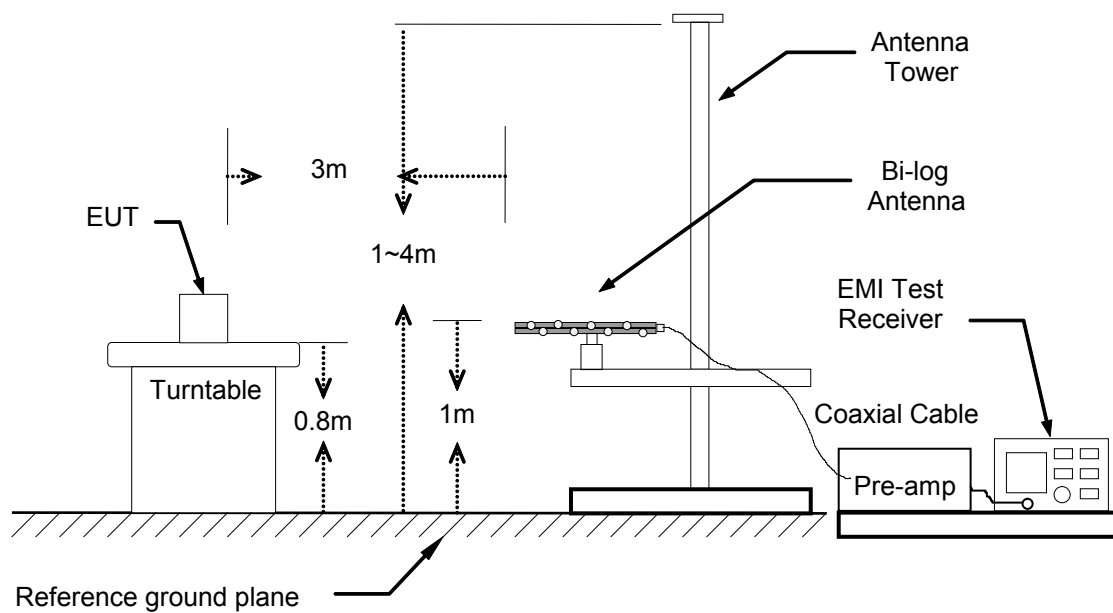
The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.
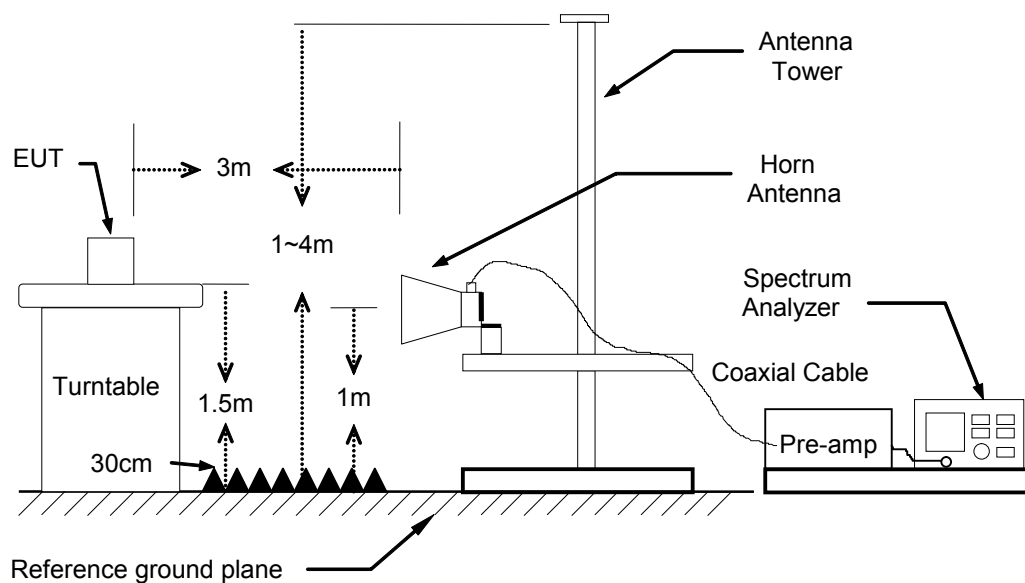
TEST PROCEDURE

1. The EUT was placed on the top of a rotating table 0.8 and 1.5 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.

2. While measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. While measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna.

3. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization of the antenna are set to make the measurement.

4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.

5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Remark:
1. *The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.*
2. *The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.*
3. *The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.*

TEST RESULTS

Below 1 GHz (9kHz ~ 30MHz)

No emission found between lowest internal used/generated frequency to 30MHz.

Below 1 GHz (30MHz ~ 1GHz)

Product Name	Moca AP cable Modem	Test By	Jey Li
Test Model	CGNVM-3589	Test Date	2016/05/09
Test Mode	Mode 2	Temp. & Humidity	22°C, 56%

966Chamber_B at 3Meter / Horizontal

```
Freq.    Reading   C.F.    Result   Limit    Margin   Azimuth  Height   Remark
MHz      dBuV      dB/m    dBuV/m   dBuV/m   dB       deg      cm
===============================================================================

86.26    54.13    -18.53   35.60    40.00    -4.40     202      200      Peak
125.06   53.45    -14.35   39.10    43.50    -4.40     92       200      Peak
270.56   51.52    -11.90   39.62    46.00    -6.38     216      100      Peak
375.32   54.30     -9.66   44.64    46.00    -1.36     30       100      QP
625.58   49.74     -6.44   43.30    46.00    -2.70     199      100      Peak
875.84   49.10     -3.19   45.91    46.00    -0.09     12       100      QP
```

966Chamber_B at 3Meter / Vertical

```
Freq.    Reading   C.F.    Result   Limit    Margin   Azimuth  Height   Remark
MHz      dBuV      dB/m    dBuV/m   dBuV/m   dB       deg      cm
===============================================================================

32.91    47.40     -9.78   37.62    40.00    -2.38     166      100      QP
49.40    58.50    -18.89   39.61    40.00    -0.39     64       100      QP
57.16    59.20    -20.47   38.73    40.00    -1.27     320      100      QP
68.80    58.60    -20.65   37.95    40.00    -2.05     208      100      QP
125.06   57.84    -14.35   43.49    43.50    -0.01     48       100      QP
375.32   55.51     -9.66   45.85    46.00    -0.15     135      100      QP
625.58   51.36     -6.44   44.92    46.00    -1.08     103      100      Peak
```

Remark:

1. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – PreAmp.Gain (dB)
3. Result (dBuV/m) = Reading (dBuV) + Correction Factor (dB/m)
4. Margin (dB) = Remark result (dBuV/m) - Quasi-peak limit (dBuV/m).

Above 1GHz

Product Name	Moca AP cable Modem	Test By	Davis Tseng
Test Model	CGNVM-3589	Test Date	2016/03/30
Test Mode	UNII Band 1 / IEEE 802.11a Mode TX / CH Low / Non-beamforming	Temp. & Humidity	24°C, 52%

966Chamber_B at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
3240.00	49.34	4.37	53.71	74.00	-20.29	194	100	Peak
3780.00	45.33	5.63	50.96	54.00	-3.04	209	197	Average
3780.00	49.53	5.63	55.16	74.00	-18.84	209	197	Peak
5350.00	42.88	9.20	52.08	74.00	-21.92	290	100	Peak
5505.00	44.39	9.55	53.94	74.00	-20.06	169	100	Peak
7560.00	40.71	12.45	53.16	54.00	-0.84	101	194	Average
7560.00	44.52	12.45	56.97	74.00	-17.03	101	194	Peak
10368.00	36.87	16.23	53.10	54.00	-0.90	104	201	Average
10368.00	48.37	16.23	64.60	74.00	-9.40	104	201	Peak
10800.00	32.32	17.17	49.49	54.00	-4.51	86	187	Average
10800.00	38.58	17.17	55.75	74.00	-18.25	86	187	Peak

966Chamber_B at 3Meter / Vertical

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
3780.00	44.63	5.63	50.26	54.00	-3.74	113	142	Average
3780.00	49.58	5.63	55.21	74.00	-18.79	113	142	Peak
4645.00	45.82	7.94	53.76	74.00	-20.24	164	100	Peak
5350.00	42.43	9.20	51.63	74.00	-22.37	309	100	Peak
5420.00	34.52	9.36	43.88	54.00	-10.12	182	100	Average
5420.00	45.26	9.36	54.62	74.00	-19.38	182	100	Peak
7020.00	41.25	12.35	53.60	74.00	-20.40	51	200	Peak
7560.00	40.72	12.45	53.17	54.00	-0.83	37	187	Average
7560.00	43.81	12.45	56.26	74.00	-17.74	37	187	Peak
10368.00	34.48	16.23	50.71	54.00	-3.29	125	184	Average
10368.00	47.77	16.23	64.00	74.00	-10.00	125	184	Peak
10800.00	36.52	17.17	53.69	74.00	-20.31	89	100	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Davis Tseng
Test Model	CGNVM-3589	Test Date	2016/03/30
Test Mode	UNII Band 1 / IEEE 802.11a Mode TX / CH Middle / Non-beamforming	Temp. & Humidity	24°C, 52%

966Chamber_B at 3Meter / Horizontal

```
  Freq.     Reading    C.F.      Result    Limit     Margin    Azimuth   Height    Remark
  MHz       dBuV       dB/m      dBuV/m    dBuV/m    dB        deg       cm
==============================================================================================

  3240.00   47.58      4.37      51.95     54.00     -2.05     206       196       Average
  3240.00   52.83      4.37      57.20     74.00     -16.80    206       196       Peak
  3780.00   46.44      5.63      52.07     54.00     -1.93     179       100       Average
  3780.00   50.98      5.63      56.61     74.00     -17.39    179       100       Peak
  4700.00   45.52      8.02      53.54     74.00     -20.46    336       100       Peak
  5350.00   43.76      9.20      52.96     74.00     -21.04    346       200       Peak
  5640.00   33.62      9.86      43.48     54.00     -10.52    111       142       Average
  5640.00   44.32      9.86      54.18     74.00     -19.82    111       142       Peak

  6936.00   41.61      12.25     53.86     74.00     -20.14    83        200       Peak
  7560.00   40.41      12.45     52.86     54.00     -1.14     97        190       Average
  7560.00   43.27      12.45     55.72     74.00     -18.28    97        190       Peak
  10404.00  37.22      16.33     53.55     54.00     -0.45     88        194       Average
  10404.00  46.97      16.33     63.30     74.00     -10.70    88        200       Peak
  10800.00  32.69      17.17     49.86     54.00     -4.14     101       187       Average
  10800.00  38.22      17.17     55.39     74.00     -18.61    101       187       Peak
```

966Chamber_B at 3Meter / Vertical

```
  Freq.     Reading    C.F.      Result    Limit     Margin    Azimuth   Height    Remark
  MHz       dBuV       dB/m      dBuV/m    dBuV/m    dB        deg       cm
==============================================================================================

  3240.00   48.87      4.37      53.24     74.00     -20.76    34        200       Peak
  3780.00   48.02      5.63      53.65     74.00     -20.35    109       200       Peak
  4690.00   45.77      8.00      53.77     74.00     -20.23    75        200       Peak
  5150.00   33.74      8.76      42.50     54.00     -11.50    240       168       Average
  5150.00   45.70      8.76      54.46     74.00     -19.54    240       168       Peak
  5350.00   43.43      9.20      52.63     74.00     -21.37    114       200       Peak

  6936.00   39.13      12.25     51.38     74.00     -22.62    11        100       Peak
  7020.00   38.94      12.35     51.29     54.00     -2.71     49        194       Average
  7020.00   43.47      12.35     55.82     74.00     -18.18    49        194       Peak
  7560.00   41.44      12.45     53.89     74.00     -20.11    45        200       Peak
  10404.00  37.41      16.33     53.74     54.00     -0.26     85        187       Average
  10404.00  48.92      16.33     65.25     74.00     -8.75     85        187       Peak
```

Remark:
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Result = Reading + Correction Factor
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Davis Tseng
Test Model	CGNVM-3589	Test Date	2016/03/30
Test Mode	UNII Band 1 / IEEE 802.11a Mode TX / CH High / Non-beamforming	Temp. & Humidity	24°C, 52%

966Chamber_B at 3Meter / Horizontal

```
   Freq.     Reading    C.F.     Result    Limit     Margin    Azimuth   Height    Remark
   MHz       dBuV       dB/m     dBuV/m    dBuV/m    dB        deg       cm
===============================================================================================

  3240.00    49.22      4.37     53.59     74.00     -20.41    215       200       Peak
  3780.00    46.12      5.63     51.75     54.00      -2.25    204       197       Average
  3780.00    49.97      5.63     55.60     74.00     -18.40    204       197       Peak
  4725.00    44.25      8.05     52.30     54.00      -1.70    174       100       Average
  4725.00    47.46      8.05     55.51     74.00     -18.49    174       100       Peak
  5150.00    43.69      8.76     52.45     74.00     -21.55    179       200       Peak
  5350.00    44.03      9.20     53.23     74.00     -20.77    206       200       Peak

  7020.00    38.41     12.35     50.76     74.00     -23.24    42        200       Peak
  7560.00    40.77     12.45     53.22     74.00     -20.78    78        200       Peak
 10488.00    37.20     16.56     53.76     54.00      -0.24    105       197       Average
 10488.00    48.63     16.56     65.19     74.00      -8.81    105       197       Peak
```

966Chamber_B at 3Meter / Vertical

```
   Freq.     Reading    C.F.     Result    Limit     Margin    Azimuth   Height    Remark
   MHz       dBuV       dB/m     dBuV/m    dBuV/m    dB        deg       cm
===============================================================================================

  3240.00    49.56      4.37     53.93     74.00     -20.07    79        200       Peak
  3780.00    46.24      5.63     51.87     54.00      -2.13    104       174       Average
  3780.00    49.22      5.63     54.85     74.00     -19.15    104       174       Peak
  5150.00    43.54      8.76     52.30     74.00     -21.70    0         200       Peak
  5350.00    44.05      9.20     53.25     74.00     -20.75    90        200       Peak

  7020.00    41.04     12.35     53.39     74.00     -20.61    53        200       Peak
  7560.00    41.30     12.45     53.75     74.00     -20.25    71        200       Peak
 10488.00    36.59     16.56     53.15     54.00      -0.85    123       183       Average
 10488.00    48.16     16.56     64.72     74.00      -9.28    123       183       Peak
 10800.00    36.18     17.17     53.35     74.00     -20.65    32        100       Peak
```

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Davis Tseng
Test Model	CGNVM-3589	Test Date	2016/03/30
Test Mode	UNII Band 1 / IEEE 802.11ac VHT20 Mode TX / CH Low / Non-beamforming	Temp. & Humidity	24°C, 52%

966Chamber_B at 3Meter / Horizontal

```
   Freq.     Reading    C.F.      Result    Limit     Margin    Azimuth   Height    Remark
   MHz       dBuV       dB/m      dBuV/m    dBuV/m    dB        deg       cm
===============================================================================================

  3240.00    46.57      4.37      50.94     54.00     -3.06     216       100       Average
  3240.00    49.76      4.37      54.13     74.00     -19.87    216       100       Peak
  3780.00    48.20      5.63      53.83     74.00     -20.17    194       200       Peak
  5350.00    43.85      9.20      53.05     74.00     -20.95    77        100       Peak
  5400.00    43.96      9.32      53.28     54.00     -0.72     91        100       Average
  5400.00    47.63      9.32      56.95     74.00     -17.05    91        100       Peak
  6912.00    37.91      12.21     50.12     74.00     -23.88    105       200       Peak
  7560.00    40.63      12.45     53.08     54.00     -0.92     78        194       Average
  7560.00    43.62      12.45     56.07     74.00     -17.93    78        194       Peak
 10368.00    36.74      16.23     52.97     54.00     -1.03     78        186       Average
 10368.00    49.81      16.23     66.04     74.00     -7.96     78        186       Peak
 10800.00    32.75      17.17     49.92     54.00     -4.08     100       186       Average
 10800.00    38.69      17.17     55.86     74.00     -18.14    100       186       Peak
```

966Chamber_B at 3Meter / Vertical

```
   Freq.     Reading    C.F.      Result    Limit     Margin    Azimuth   Height    Remark
   MHz       dBuV       dB/m      dBuV/m    dBuV/m    dB        deg       cm
===============================================================================================

  3240.00    48.02      4.37      52.39     74.00     -21.61    60        200       Peak
  3780.00    48.35      5.63      53.98     74.00     -20.02    89        200       Peak
  5350.00    43.35      9.20      52.55     74.00     -21.45    341       200       Peak
  5520.00    35.42      9.59      45.01     54.00     -8.99     300       200       Average
  5520.00    46.37      9.59      55.96     74.00     -18.04    300       200       Peak
  7020.00    40.93      12.35     53.28     74.00     -20.72    65        100       Peak
  7560.00    41.06      12.45     53.51     74.00     -20.49    67        200       Peak
 10368.00    35.72      16.23     51.95     54.00     -2.05     114       184       Average
 10368.00    48.85      16.23     65.08     74.00     -8.92     114       184       Peak
```

Remark:
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Result = Reading + Correction Factor
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Rex Chiu
Test Model	CGNVM-3589	Test Date	2016/03/29
Test Mode	UNII Band 1 / IEEE 802.11ac VHT20 Mode TX / CH Middle / Non-beamforming	Temp. & Humidity	21°C, 56%

966Chamber_B at 3Meter / Horizontal

```
   Freq.     Reading    C.F.     Result    Limit     Margin    Azimuth   Height   Remark
    MHz        dBuV      dB/m     dBuV/m    dBuV/m      dB         deg       cm
===============================================================================================

  3240.00     48.20     4.37     52.57     54.00     -1.43       174       100     Average
  3240.00     50.24     4.37     54.61     74.00    -19.39       174       100     Peak
  5150.00     39.60     8.76     48.36     54.00     -5.64       323       100     Average
  5150.00     45.72     8.76     54.48     74.00    -19.52       323       100     Peak
  5400.00     44.19     9.32     53.51     54.00     -0.49        60       200     Average
  5400.00     45.95     9.32     55.27     74.00    -18.73        60       200     Peak

  6960.00     38.80    12.29     51.09     74.00    -22.91        10       100     Peak
  7560.00     37.26    12.45     49.71     54.00     -4.29        77       193     Average
  7560.00     43.58    12.45     56.03     74.00    -17.97        77       193     Peak
 10440.00     37.21    16.43     53.64     54.00     -0.36        79       173     Average
 10440.00     49.62    16.43     66.05     74.00     -7.95        79       173     Peak
 10800.00     33.26    17.17     50.43     54.00     -3.57       102       184     Average
 10800.00     39.23    17.17     56.40     74.00    -17.60       102       184     Peak
```

966Chamber_B at 3Meter / Vertical

```
   Freq.     Reading    C.F.     Result    Limit     Margin    Azimuth   Height   Remark
    MHz        dBuV      dB/m     dBuV/m    dBuV/m      dB         deg       cm
===============================================================================================

  3240.00     48.30     4.37     52.67     54.00     -1.33        81       100     Average
  3240.00     50.34     4.37     54.71     74.00    -19.29        81       100     Peak
  5150.00     40.10     8.76     48.86     54.00     -5.14        19       100     Average
  5150.00     46.13     8.76     54.89     74.00    -19.11        19       100     Peak
  5400.00     44.00     9.32     53.32     54.00     -0.68       241       200     Average
  5400.00     44.84     9.32     54.16     74.00    -19.84       241       200     Peak

  7020.00     40.94    12.35     53.29     74.00    -20.71        40       200     Peak
  7560.00     41.35    12.45     53.80     74.00    -20.20        53       200     Peak
 10452.00     36.66    16.46     53.12     54.00     -0.88       126       184     Average
 10452.00     48.68    16.46     65.14     74.00     -8.86       126       184     Peak
 10800.00     32.72    17.17     49.89     54.00     -4.11        88       186     Average
 10800.00     38.63    17.17     55.80     74.00    -18.20        88       186     Peak
```

Remark:
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Result = Reading + Correction Factor
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Rex Chiu
Test Model	CGNVM-3589	Test Date	2016/03/29
Test Mode	UNII Band 1 / IEEE 802.11ac VHT20 Mode TX / CH High / Non-beamforming	Temp. & Humidity	21°C, 56%

966Chamber_B at 3Meter / Horizontal

```
   Freq.      Reading     C.F.      Result     Limit      Margin    Azimuth    Height    Remark
   MHz         dBuV       dB/m      dBuV/m     dBuV/m       dB        deg        cm
=====================================================================================================

  3240.00      49.10      4.37      53.47      54.00      -0.53       215        100      Average
  3240.00      51.19      4.37      55.56      74.00     -18.44       215        100      Peak
  4695.00      40.50      8.01      48.51      54.00      -5.49       111        200      Average
  4695.00      46.78      8.01      54.79      74.00     -19.21       111        200      Peak
  5400.00      44.15      9.32      53.47      54.00      -0.53        64        200      Average
  5400.00      45.40      9.32      54.72      74.00     -19.28        64        200      Peak

  7020.00      38.19     12.35      50.54      74.00     -23.46       121        100      Peak
  7560.00      40.36     12.45      52.81      54.00      -1.19        79        200      Average
  7560.00      41.19     12.45      53.64      74.00     -20.36        79        200      Peak
 10488.00      36.47     16.56      53.03      54.00      -0.97       116        200      Average
 10488.00      52.60     16.56      69.16      74.00      -4.84       116        200      Peak
```

966Chamber_B at 3Meter / Vertical

```
   Freq.      Reading     C.F.      Result     Limit      Margin    Azimuth    Height    Remark
   MHz         dBuV       dB/m      dBuV/m     dBuV/m       dB        deg        cm
=====================================================================================================

  3240.00      46.90      4.37      51.27      54.00      -2.73       102        200      Average
  3240.00      48.64      4.37      53.01      74.00     -20.99       102        200      Peak
  4555.00      40.30      7.82      48.12      54.00      -5.88       326        100      Average
  4555.00      46.46      7.82      54.28      74.00     -19.72       326        100      Peak
  5390.00      43.80      9.29      53.09      54.00      -0.91       168        200      Average
  5390.00      45.01      9.29      54.30      74.00     -19.70       168        200      Peak

  7020.00      38.00     12.35      50.35      54.00      -3.65        22        200      Average
  7020.00      40.99     12.35      53.34      74.00     -20.66        22        200      Peak
  7560.00      40.96     12.45      53.41      54.00      -0.59        49        200      Average
  7560.00      42.35     12.45      54.80      74.00     -19.20        49        200      Peak
 10488.00      36.87     16.56      53.43      54.00      -0.57        82        100      Average
 10488.00      45.31     16.56      61.87      74.00     -12.13        82        100      Peak
```

Remark:
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Davis Tseng
Test Model	CGNVM-3589	Test Date	2016/03/30
Test Mode	UNII Band 1 / IEEE 802.11ac VHT40 Mode TX / CH Low / Non-beamforming	Temp. & Humidity	24°C, 52%

966Chamber_B at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
3240.00	49.16	4.37	53.53	74.00	-20.47	186	100	Peak
3780.00	45.49	5.63	51.12	54.00	-2.88	183	100	Average
3780.00	49.84	5.63	55.47	74.00	-18.53	183	100	Peak
5350.00	43.83	9.20	53.03	74.00	-20.97	0	100	Peak
5400.00	43.52	9.32	52.84	54.00	-1.16	61	189	Average
5400.00	46.52	9.32	55.84	74.00	-18.16	61	189	Peak
6924.00	38.84	12.23	51.07	74.00	-22.93	78	200	Peak
7560.00	40.56	12.45	53.01	54.00	-0.99	74	189	Average
7560.00	43.89	12.45	56.34	74.00	-17.66	74	189	Peak
10380.00	27.93	16.26	44.19	54.00	-9.81	114	195	Average
10380.00	37.76	16.26	54.02	74.00	-19.98	114	195	Peak
10800.00	32.98	17.17	50.15	54.00	-3.85	105	140	Average
10800.00	38.15	17.17	55.32	74.00	-18.68	105	140	Peak

966Chamber_B at 3Meter / Vertical

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
3240.00	48.55	4.37	52.92	74.00	-21.08	66	200	Peak
3780.00	48.11	5.63	53.74	74.00	-20.26	61	200	Peak
5350.00	43.81	9.20	53.01	74.00	-20.99	263	100	Peak
5565.00	35.22	9.69	44.91	54.00	-9.09	334	100	Average
5565.00	44.82	9.69	54.51	74.00	-19.49	334	100	Peak
6420.00	36.86	11.40	48.26	74.00	-25.74	75	100	Peak
7020.00	40.26	12.35	52.61	74.00	-21.39	47	200	Peak
7560.00	40.58	12.45	53.03	54.00	-0.97	56	196	Average
7560.00	43.62	12.45	56.07	74.00	-17.93	56	196	Peak

Remark:
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Result = Reading + Correction Factor
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Rex Chiu
Test Model	CGNVM-3589	Test Date	2016/03/29
Test Mode	UNII Band 1 / IEEE 802.11ac VHT40 Mode TX / CH High / Non-beamforming	Temp. & Humidity	21°C, 56%

966Chamber_B at 3Meter / Horizontal

```
   Freq.    Reading    C.F.     Result    Limit    Margin    Azimuth   Height   Remark
   MHz      dBuV       dB/m     dBuV/m    dBuV/m   dB        deg       cm
==================================================================================================

 3240.00    48.93      4.37     53.30     54.00    -0.70     187       100      Average
 3240.00    50.91      4.37     55.28     74.00    -18.72    187       100      Peak
 5150.00    40.30      8.76     49.06     54.00    -4.94     360       200      Average
 5150.00    49.64      8.76     58.40     74.00    -15.60    360       200      Peak
 5400.00    44.19      9.32     53.51     54.00    -0.49     64        200      Average
 5400.00    47.19      9.32     56.51     74.00    -17.49    64        200      Peak

 6984.00    37.26      12.32    49.58     74.00    -24.42    8         100      Peak
 7560.00    40.32      12.45    52.77     54.00    -1.23     101       200      Average
 7560.00    40.81      12.45    53.26     74.00    -20.74    101       200      Peak
10476.00    36.89      16.52    53.41     54.00    -0.59     85        200      Average
10476.00    44.33      16.52    60.85     74.00    -13.15    85        200      Peak
```

966Chamber_B at 3Meter / Vertical

```
   Freq.    Reading    C.F.     Result    Limit    Margin    Azimuth   Height   Remark
   MHz      dBuV       dB/m     dBuV/m    dBuV/m   dB        deg       cm
==================================================================================================

 3780.00    47.15      5.63     52.78     74.00    -21.22    101       100      Peak
 5150.00    41.00      8.76     49.76     54.00    -4.24     187       200      Average
 5150.00    52.32      8.76     61.08     74.00    -12.92    187       200      Peak
 5390.00    43.20      9.29     52.49     54.00    -1.51     230       200      Average
 5390.00    46.07      9.29     55.36     74.00    -18.64    230       200      Peak

 7020.00    37.92      12.35    50.27     54.00    -3.73     148       200      Average
 7020.00    40.91      12.35    53.26     74.00    -20.74    148       200      Peak
 7560.00    40.99      12.45    53.44     54.00    -0.56     53        200      Average
 7560.00    41.80      12.45    54.25     74.00    -19.75    53        200      Peak
10488.00    34.73      16.56    51.29     54.00    -2.71     120       200      Average
10488.00    44.24      16.56    60.80     74.00    -13.20    120       200      Peak
```

Remark:
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Result = Reading + Correction Factor
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Davis Tseng
Test Model	CGNVM-3589	Test Date	2016/03/30
Test Mode	UNII Band 1 / IEEE 802.11ac VHT80 Mode TX / CH Low / Non-beamforming	Temp. & Humidity	24°C, 52%

966Chamber_B at 3Meter / Horizontal

```
   Freq.    Reading    C.F.    Result    Limit    Margin   Azimuth   Height   Remark
   MHz       dBuV      dB/m    dBuV/m    dBuV/m     dB        deg       cm
========================================================================================

  3240.00    47.92     4.37    52.29     54.00     -1.71     221       187    Average
  3240.00    51.38     4.37    55.75     74.00    -18.25     221       187    Peak
  3780.00    45.63     5.63    51.26     54.00     -2.74     192       100    Average
  3780.00    49.77     5.63    55.40     74.00    -18.60     192       100    Peak
  5350.00    42.73     9.20    51.93     74.00    -22.07       0       200    Peak
  5400.00    43.92     9.32    53.24     54.00     -0.76      62       191    Average
  5400.00    47.17     9.32    56.49     74.00    -17.51      62       191    Peak

  6708.00    37.49    11.88    49.37     74.00    -24.63     269       100    Peak
  7020.00    38.12    12.35    50.47     74.00    -23.53      83       200    Peak
  7560.00    40.67    12.45    53.12     54.00     -0.88      89       215    Average
  7560.00    43.96    12.45    56.41     74.00    -17.59      89       215    Peak
 10800.00    33.38    17.17    50.55     54.00     -3.45     110       140    Average
 10800.00    38.22    17.17    55.39     74.00    -18.61     110       140    Peak
```

966Chamber_B at 3Meter / Vertical

```
   Freq.    Reading    C.F.    Result    Limit    Margin   Azimuth   Height   Remark
   MHz       dBuV      dB/m    dBuV/m    dBuV/m     dB        deg       cm
========================================================================================

  3780.00    44.37     5.63    50.00     54.00     -4.00      99       187    Average
  3780.00    49.35     5.63    54.98     74.00    -19.02      99       187    Peak
  4695.00    38.24     8.01    46.25     54.00     -7.75     267       100    Average
  4695.00    46.69     8.01    54.70     74.00    -19.30     267       100    Peak
  5350.00    43.98     9.20    53.18     74.00    -20.82      24       200    Peak
  5400.00    35.22     9.32    44.54     54.00     -9.46     115       104    Average
  5400.00    47.38     9.32    56.70     74.00    -17.30     115       104    Peak
  6948.00    39.64    12.27    51.91     74.00    -22.09      22       100    Peak
  7020.00    39.52    12.35    51.87     54.00     -2.13      34       184    Average
  7020.00    42.99    12.35    55.34     74.00    -18.66      34       184    Peak
  7560.00    40.52    12.45    52.97     54.00     -1.03      59       196    Average
  7560.00    43.87    12.45    56.32     74.00    -17.68      59       196    Peak
```

Remark:
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Result = Reading + Correction Factor
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Rex Chiu
Test Model	CGNVM-3589	Test Date	2016/04/01
Test Mode	UNII Band 3 / IEEE 802.11a Mode TX / CH Low / Non-beamforming	Temp. & Humidity	22°C, 56%

966Chamber_B at 3Meter / Horizontal

```
   Freq.      Reading    C.F.     Result    Limit     Margin    Azimuth   Height    Remark
    MHz        dBuV       dB/m     dBuV/m    dBuV/m    dB        deg       cm
===============================================================================================

   5400.00     44.30      9.32     53.62     54.00     -0.38      99        200      Average
   5400.00     46.95      9.32     56.27     74.00    -17.73      99        200      Peak
   5715.00     46.74     10.03     56.77     68.20    -11.43      30        200      Peak
   5725.00     61.61     10.05     71.66     78.20     -6.54     360        200      Peak
   7560.00     40.38     12.45     52.83     54.00     -1.17      99        200      Average
   7560.00     41.41     12.45     53.86     74.00    -20.14      99        200      Peak
  10800.00     35.48     17.17     52.65     54.00     -1.35     108        200      Average
  10800.00     39.46     17.17     56.63     74.00    -17.37     108        200      Peak
  11484.00     30.56     18.34     48.90     54.00     -5.10      20        200      Average
  11484.00     36.50     18.34     54.84     74.00    -19.16      20        200      Peak
```

966Chamber_B at 3Meter / Vertical

```
   Freq.      Reading    C.F.     Result    Limit     Margin    Azimuth   Height    Remark
    MHz        dBuV       dB/m     dBuV/m    dBuV/m    dB        deg       cm
===============================================================================================

   5495.00     45.67      9.53     55.20     74.00    -18.80     164        200      Peak
   5715.00     50.00     10.03     60.03     68.20     -8.17     183        200      Peak
   5725.00     66.78     10.05     76.83     78.20     -1.37      15        200      Peak
   7020.00     38.45     12.35     50.80     54.00     -3.20      58        200      Average
   7020.00     41.36     12.35     53.71     74.00    -20.29      58        200      Peak
   7560.00     40.98     12.45     53.43     54.00     -0.57      45        200      Average
   7560.00     41.79     12.45     54.24     74.00    -19.76      45        200      Peak
  11496.00     32.30     18.36     50.66     54.00     -3.34      74        100      Average
  11496.00     38.02     18.36     56.38     74.00    -17.62      74        100      Peak
```

Remark:
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Rex Chiu
Test Model	CGNVM-3589	Test Date	2016/04/01
Test Mode	UNII Band 3 / IEEE 802.11a Mode TX / CH Middle / Non-beamforming	Temp. & Humidity	22°C, 56%

966Chamber_B at 3Meter / Horizontal

```
   Freq.     Reading    C.F.     Result    Limit     Margin    Azimuth   Height    Remark
   MHz       dBuV       dB/m     dBuV/m    dBuV/m    dB        deg       cm
   =================================================================================================

   5400.00   44.15      9.32     53.47     54.00     -0.53     64        200       Average
   5400.00   46.15      9.32     55.47     74.00     -18.53    64        200       Peak
   5725.00   42.90      10.05    52.95     78.20     -25.25    22        100       Peak
   5850.00   41.80      10.33    52.13     78.20     -26.07    159       200       Peak

   7560.00   40.37      12.45    52.82     54.00     -1.18     99        200       Average
   7560.00   41.87      12.45    54.32     74.00     -19.68    99        200       Peak
  10800.00   34.82      17.17    51.99     54.00     -2.01     99        200       Average
  10800.00   38.90      17.17    56.07     74.00     -17.93    99        200       Peak
  11568.00   34.20      18.53    52.73     54.00     -1.27     14        200       Average
  11568.00   43.44      18.53    61.97     74.00     -12.03    14        200       Peak
```

966Chamber_B at 3Meter / Vertical

```
   Freq.     Reading    C.F.     Result    Limit     Margin    Azimuth   Height    Remark
   MHz       dBuV       dB/m     dBuV/m    dBuV/m    dB        deg       cm
   =================================================================================================

   5400.00   43.53      9.32     52.85     54.00     -1.15     35        200       Average
   5400.00   46.07      9.32     55.39     74.00     -18.61    35        200       Peak
   5725.00   43.49      10.05    53.54     78.20     -24.66    278       100       Peak
   5850.00   42.74      10.33    53.07     78.20     -25.13    253       100       Peak

   7020.00   38.20      12.35    50.55     54.00     -3.45     59        100       Average
   7020.00   41.12      12.35    53.47     74.00     -20.53    59        100       Peak
   7560.00   40.97      12.45    53.42     54.00     -0.58     85        200       Average
   7560.00   41.67      12.45    54.12     74.00     -19.88    85        200       Peak
  11580.00   32.80      18.55    51.35     54.00     -2.65     103       200       Average
  11580.00   41.87      18.55    60.42     74.00     -13.58    103       200       Peak
```

Remark:
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Result = Reading + Correction Factor
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Rex Chiu
Test Model	CGNVM-3589	Test Date	2016/04/01
Test Mode	UNII Band 3 / IEEE 802.11a Mode TX / CH High / Non-beamforming	Temp. & Humidity	22°C, 56%

966Chamber_B at 3Meter / Horizontal

```
  Freq.     Reading    C.F.      Result    Limit     Margin    Azimuth   Height    Remark
  MHz       dBuV       dB/m      dBuV/m    dBuV/m    dB        deg       cm
==================================================================================================

  5400.00    44.20      9.32      53.52     54.00     -0.48      95        200      Average
  5400.00    45.91      9.32      55.23     74.00    -18.77      95        200      Peak
  5850.00    63.00     10.33      73.33     78.20     -4.87     298        200      Peak
  5860.00    52.92     10.35      63.27     68.20     -4.93      87        200      Peak

  7560.00    40.31     12.45      52.76     54.00     -1.24      98        200      Average
  7560.00    41.42     12.45      53.87     74.00    -20.13      98        200      Peak
 10800.00    34.80     17.17      51.97     54.00     -2.03      98        200      Average
 10800.00    36.89     17.17      54.06     74.00    -19.94      98        200      Peak
 11652.00    34.60     18.72      53.32     54.00     -0.68      94        200      Average
 11652.00    41.01     18.72      59.73     74.00    -14.27      94        200      Peak
```

966Chamber_B at 3Meter / Vertical

```
  Freq.     Reading    C.F.      Result    Limit     Margin    Azimuth   Height    Remark
  MHz       dBuV       dB/m      dBuV/m    dBuV/m    dB        deg       cm
==================================================================================================

  5400.00    43.90      9.32      53.22     54.00     -0.78     113        200      Average
  5400.00    45.40      9.32      54.72     74.00    -19.28     113        200      Peak
  5850.00    67.23     10.33      77.56     78.20     -0.64     350        200      Peak
  5860.00    54.52     10.35      64.87     68.20     -3.33     314        200      Peak

  7020.00    38.90     12.35      51.25     54.00     -2.75      44        200      Average
  7020.00    41.95     12.35      54.30     74.00    -19.70      44        200      Peak
  7560.00    40.95     12.45      53.40     54.00     -0.60      62        200      Average
  7560.00    41.56     12.45      54.01     74.00    -19.99      62        200      Peak
 10800.00    33.80     17.17      50.97     54.00     -3.03      43        100      Average
 10800.00    37.82     17.17      54.99     74.00    -19.01      43        100      Peak
 11652.00    33.70     18.72      52.42     54.00     -1.58      71        200      Average
 11652.00    40.05     18.72      58.77     74.00    -15.23      71        200      Peak
```

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Result = Reading + Correction Factor
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Rex Chiu
Test Model	CGNVM-3589	Test Date	2016/04/01
Test Mode	UNII Band 3 / IEEE 802.11ac VHT20 Mode TX / CH Low / Non-beamforming	Temp. & Humidity	22°C, 56%

966Chamber_B at 3Meter / Horizontal

```
   Freq.     Reading    C.F.      Result    Limit     Margin    Azimuth   Height    Remark
   MHz       dBuV       dB/m      dBuV/m    dBuV/m    dB        deg       cm
==================================================================================================

   5400.00   43.30      9.32      52.62     54.00     -1.38     67        200       Average
   5400.00   47.71      9.32      57.03     74.00     -16.97    67        200       Peak
   5715.00   50.88      10.03     60.91     68.20     -7.29     19        200       Peak
   5725.00   62.26      10.05     72.31     78.20     -5.89     360       200       Peak
   7560.00   40.37      12.45     52.82     54.00     -1.18     110       200       Average
   7560.00   41.68      12.45     54.13     74.00     -19.87    110       200       Peak
  10800.00   34.56      17.17     51.73     54.00     -2.27     114       200       Average
  10800.00   37.86      17.17     55.03     74.00     -18.97    114       200       Peak
  11496.00   28.20      18.36     46.56     54.00     -7.44     213       200       Average
  11496.00   36.74      18.36     55.10     74.00     -18.90    213       200       Peak
```

966Chamber_B at 3Meter / Vertical

```
   Freq.     Reading    C.F.      Result    Limit     Margin    Azimuth   Height    Remark
   MHz       dBuV       dB/m      dBuV/m    dBuV/m    dB        deg       cm
==================================================================================================

   5400.00   42.50      9.32      51.82     54.00     -2.18     122       200       Average
   5400.00   45.39      9.32      54.71     74.00     -19.29    122       200       Peak
   5715.00   51.21      10.03     61.24     68.20     -6.96     147       200       Peak
   5725.00   67.20      10.05     77.25     78.20     -0.95     19        200       Peak
   7020.00   38.30      12.35     50.65     54.00     -3.35     61        200       Average
   7020.00   41.20      12.35     53.55     74.00     -20.45    61        200       Peak
   7560.00   40.95      12.45     53.40     54.00     -0.60     41        200       Average
   7560.00   42.16      12.45     54.61     74.00     -19.39    41        200       Peak
  10800.00   34.23      17.17     51.40     54.00     -2.60     84        200       Average
  10800.00   37.11      17.17     54.28     74.00     -19.72    84        200       Peak
  11484.00   28.80      18.34     47.14     54.00     -6.86     30        200       Average
  11484.00   37.47      18.34     55.81     74.00     -18.19    30        200       Peak
```

Remark:
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Result = Reading + Correction Factor
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Rex Chiu
Test Model	CGNVM-3589	Test Date	2016/04/01
Test Mode	UNII Band 3 / IEEE 802.11ac VHT20 Mode TX / CH Middle / Non-beamforming	Temp. & Humidity	22°C, 56%

966Chamber_B at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5400.00	44.15	9.32	53.47	54.00	-0.53	58	200	Average
5400.00	45.24	9.32	54.56	74.00	-19.44	58	200	Peak
5725.00	42.98	10.05	53.03	78.20	-25.17	96	200	Peak
5850.00	43.04	10.33	53.37	78.20	-24.83	358	200	Peak
7560.00	40.36	12.45	52.81	54.00	-1.19	102	200	Average
7560.00	41.56	12.45	54.01	74.00	-19.99	102	200	Peak
10800.00	34.61	17.17	51.78	54.00	-2.22	70	200	Average
10800.00	37.71	17.17	54.88	74.00	-19.12	70	200	Peak
11580.00	32.60	18.55	51.15	54.00	-2.85	14	200	Average
11580.00	42.00	18.55	60.55	74.00	-13.45	14	200	Peak

966Chamber_B at 3Meter / Vertical

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5400.00	43.72	9.32	53.04	54.00	-0.96	53	200	Average
5400.00	45.40	9.32	54.72	74.00	-19.28	53	200	Peak
5725.00	43.68	10.05	53.73	78.20	-24.47	98	200	Peak
5850.00	43.73	10.33	54.06	78.20	-24.14	44	200	Peak
7020.00	38.00	12.35	50.35	54.00	-3.65	76	100	Average
7020.00	41.00	12.35	53.35	74.00	-20.65	76	100	Peak
7560.00	40.98	12.45	53.43	54.00	-0.57	49	200	Average
7560.00	41.38	12.45	53.83	74.00	-20.17	49	200	Peak
10800.00	33.78	17.17	50.95	54.00	-3.05	49	100	Average
10800.00	37.63	17.17	54.80	74.00	-19.20	49	100	Peak
11568.00	34.40	18.53	52.93	54.00	-1.07	71	200	Average
11568.00	44.04	18.53	62.57	74.00	-11.43	71	200	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

2. Average test would be performed if the peak result were greater than the average limit.

3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

4. Result = Reading + Correction Factor

  Margin = Result – Limit

  Remark Peak = Result(PK) – Limit(PK)

  Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Rex Chiu
Test Model	CGNVM-3589	Test Date	2016/04/01
Test Mode	UNII Band 3 / IEEE 802.11ac VHT20 Mode TX / CH High / Non-beamforming	Temp. & Humidity	22°C, 56%

966Chamber_B at 3Meter / Horizontal

```
   Freq.     Reading    C.F.     Result    Limit    Margin    Azimuth   Height    Remark
   MHz       dBuV       dB/m     dBuV/m    dBuV/m   dB        deg       cm
============================================================================================

   5400.00   44.11      9.32     53.43     54.00    -0.57     80        200       Average
   5400.00   45.71      9.32     55.03     74.00    -18.97    80        200       Peak
   5850.00   62.69      10.33    73.02     78.20    -5.18     359       200       Peak
   5860.00   47.03      10.35    57.38     68.20    -10.82    290       200       Peak

   7560.00   40.39      12.45    52.84     54.00    -1.16     100       200       Average
   7560.00   41.59      12.45    54.04     74.00    -19.96    100       200       Peak
  10800.00   34.57      17.17    51.74     54.00    -2.26     105       200       Average
  10800.00   37.97      17.17    55.14     74.00    -18.86    105       200       Peak
  11664.00   32.30      18.74    51.04     54.00    -2.96     103       100       Average
  11664.00   41.13      18.74    59.87     74.00    -14.13    103       100       Peak
```

966Chamber_B at 3Meter / Vertical

```
   Freq.     Reading    C.F.     Result    Limit    Margin    Azimuth   Height    Remark
   MHz       dBuV       dB/m     dBuV/m    dBuV/m   dB        deg       cm
============================================================================================

   5400.00   43.62      9.32     52.94     54.00    -1.06     133       200       Average
   5400.00   45.38      9.32     54.70     74.00    -19.30    133       200       Peak
   5850.00   66.20      10.33    76.53     78.20    -1.67     182       100       Peak
   5860.00   50.28      10.35    60.63     68.20    -7.57     160       200       Peak

   7020.00   38.30      12.35    50.65     54.00    -3.35     55        200       Average
   7020.00   41.23      12.35    53.58     74.00    -20.42    55        200       Peak
   7560.00   41.13      12.45    53.58     54.00    -0.42     51        200       Average
   7560.00   41.29      12.45    53.74     74.00    -20.26    51        200       Peak
  10800.00   33.67      17.17    50.84     54.00    -3.16     60        100       Average
  10800.00   36.97      17.17    54.14     74.00    -19.86    60        100       Peak
  11640.00   31.72      18.69    50.41     54.00    -3.59     298       100       Average
  11640.00   40.67      18.69    59.36     74.00    -14.64    298       100       Peak
```

Remark:
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Rex Chiu
Test Model	CGNVM-3589	Test Date	2016/03/31
Test Mode	UNII Band 3 / IEEE 802.11ac VHT40 Mode TX / CH Low / Non-beamforming	Temp. & Humidity	22°C, 56%

966Chamber_B at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
3780.00	45.20	5.63	50.83	54.00	-3.17	190	100	Average
3780.00	49.59	5.63	55.22	74.00	-18.78	190	100	Peak
5715.00	40.80	10.03	50.83	54.00	-3.17	338	100	Average
5715.00	49.72	10.03	59.75	74.00	-14.25	338	100	Peak
5725.00	57.25	10.05	67.30	78.20	-10.90	300	200	Peak
7020.00	37.80	12.35	50.15	54.00	-3.85	70	200	Average
7020.00	40.71	12.35	53.06	74.00	-20.94	70	200	Peak
7560.00	40.31	12.45	52.76	54.00	-1.24	103	200	Average
7560.00	41.22	12.45	53.67	74.00	-20.33	103	200	Peak
10800.00	34.60	17.17	51.77	54.00	-2.23	117	200	Average
10800.00	36.17	17.17	53.34	74.00	-20.66	117	200	Peak

966Chamber_B at 3Meter / Vertical

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
4710.00	37.20	8.03	45.23	54.00	-8.77	163	200	Average
4710.00	46.16	8.03	54.19	74.00	-19.81	163	200	Peak
5715.00	42.19	10.03	52.22	54.00	-1.78	185	200	Average
5715.00	58.30	10.03	68.33	74.00	-5.67	185	200	Peak
5725.00	57.92	10.05	67.97	78.20	-10.23	203	200	Peak
7020.00	38.30	12.35	50.65	54.00	-3.35	38	200	Average
7020.00	41.30	12.35	53.65	74.00	-20.35	38	200	Peak
7560.00	40.93	12.45	53.38	54.00	-0.62	47	200	Average
7560.00	41.67	12.45	54.12	74.00	-19.88	47	200	Peak
10800.00	34.20	17.17	51.37	54.00	-2.63	48	100	Average
10800.00	35.96	17.17	53.13	74.00	-20.87	48	100	Peak

Remark:
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Rex Chiu
Test Model	CGNVM-3589	Test Date	2016/03/31
Test Mode	UNII Band 3 / IEEE 802.11ac VHT40 Mode TX / CH High / Non-beamforming	Temp. & Humidity	22°C, 56%

966Chamber_B at 3Meter / Horizontal

```
   Freq.    Reading     C.F.     Result    Limit    Margin    Azimuth   Height   Remark
   MHz       dBuV      dB/m     dBuV/m    dBuV/m      dB        deg       cm
 ====================================================================================

  3240.00    48.70     4.37      53.07     54.00     -0.93      216       100     Average
  3240.00    51.70     4.37      56.07     74.00    -17.93      216       100     Peak
  5715.00    52.14    10.03      62.17     68.20     -6.03      354       100     Peak
  5725.00    52.63    10.05      62.68     78.20    -15.52      270       100     Peak
  5850.00    54.80    10.33      65.13     78.20    -13.07      282       200     Peak
  5860.00    48.45    10.35      58.80     68.20     -9.40      352       200     Peak

  7560.00    41.14    12.45      53.59     74.00    -20.41       84       200     Peak
 10800.00    37.25    17.17      54.42     74.00    -19.58      109       200     Peak
 11580.00    34.30    18.55      52.85     54.00     -1.15       23       200     Average
 11580.00    41.73    18.55      60.28     74.00    -13.72       23       200     Peak
```

966Chamber_B at 3Meter / Vertical

```
   Freq.    Reading     C.F.     Result    Limit    Margin    Azimuth   Height   Remark
   MHz       dBuV      dB/m     dBuV/m    dBuV/m      dB        deg       cm
 ====================================================================================

  3780.00    46.20     5.63      51.83     54.00     -2.17      108       200     Average
  3780.00    49.02     5.63      54.65     74.00    -19.35      108       200     Peak
  5715.00    54.05    10.03      64.08     68.20     -4.12      218       200     Peak
  5725.00    56.88    10.05      66.93     78.20    -11.27       54       200     Peak
  5850.00    57.93    10.33      68.26     78.20     -9.94      161       200     Peak
  5860.00    50.99    10.35      61.34     68.20     -6.86       40       200     Peak

  7020.00    40.70    12.35      53.05     74.00    -20.95       62       100     Peak
  7560.00    41.68    12.45      54.13     74.00    -19.87       41       200     Peak
 11592.00    32.60    18.58      51.18     54.00     -2.82       44       100     Average
 11592.00    39.97    18.58      58.55     74.00    -15.45       44       100     Peak
```

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Result = Reading + Correction Factor
  Margin = Result – Limit
  Remark Peak = Result(PK) – Limit(PK)
  Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Rex Chiu
Test Model	CGNVM-3589	Test Date	2016/03/31
Test Mode	UNII Band 3 / IEEE 802.11ac VHT80 Mode TX / CH Low / Non-beamforming	Temp. & Humidity	22°C, 56%

966Chamber_B at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5705.00	49.68	10.00	59.68	68.20	-8.52	304	200	Peak
5720.00	53.59	10.04	63.63	78.20	-14.57	346	100	Peak
5850.00	47.46	10.33	57.79	78.20	-20.41	130	200	Peak
5860.00	47.48	10.35	57.83	68.20	-10.37	353	200	Peak
7560.00	40.37	12.45	52.82	54.00	-1.18	112	200	Average
7560.00	41.47	12.45	53.92	74.00	-20.08	112	200	Peak
9360.00	37.34	14.28	51.62	74.00	-22.38	72	100	Peak
10800.00	33.71	17.17	50.88	54.00	-3.12	126	200	Average
10800.00	36.76	17.17	53.93	74.00	-20.07	126	200	Peak

966Chamber_B at 3Meter / Vertical

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5703.00	57.09	10.00	67.09	68.20	-1.11	49	200	Peak
5725.00	59.86	10.05	69.91	78.20	-8.29	359	200	Peak
5850.00	51.96	10.33	62.29	78.20	-15.91	276	200	Peak
5860.00	49.42	10.35	59.77	68.20	-8.43	195	100	Peak
7020.00	37.60	12.35	49.95	54.00	-4.05	71	100	Average
7020.00	40.40	12.35	52.75	74.00	-21.25	71	100	Peak
7560.00	40.85	12.45	53.30	54.00	-0.70	38	200	Average
7560.00	41.71	12.45	54.16	74.00	-19.84	38	200	Peak
10800.00	34.56	17.17	51.73	54.00	-2.27	44	100	Average
10800.00	36.85	17.17	54.02	74.00	-19.98	44	100	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Result = Reading + Correction Factor
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Davis Tseng
Test Model	CGNVM-3589	Test Date	2016/04/02
Test Mode	UNII Band 1 / IEEE 802.11ac VHT20 Mode TX / CH Low / Beamforming	Temp. & Humidity	22°C, 56%

966Chamber_B at 3Meter / Horizontal

```
  Freq.      Reading     C.F.      Result     Limit     Margin    Azimuth    Height    Remark
   MHz        dBuV       dB/m      dBuV/m     dBuV/m       dB        deg        cm
===================================================================================================

 3240.00      47.22      4.37      51.59      54.00      -2.41      214        100      Average
 3240.00      50.92      4.37      55.29      74.00     -18.71      214        100      Peak
 3780.00      46.53      5.63      52.16      54.00      -1.84      190        100      Average
 3780.00      50.41      5.63      56.04      74.00     -17.96      190        100      Peak
 5350.00      44.26      9.20      53.46      74.00     -20.54      224        200      Peak
 5490.00      35.54      9.52      45.06      54.00      -8.94      219        197      Average
 5490.00      45.63      9.52      55.15      74.00     -18.85      219        197      Peak

 6912.00      39.19     12.21      51.40      74.00     -22.60       96        200      Peak
 7560.00      41.27     12.45      53.72      54.00      -0.28       87        187      Average
 7560.00      43.63     12.45      56.08      74.00     -17.92       87        187      Peak
10800.00      36.31     17.17      53.48      54.00      -0.52       78        187      Average
10800.00      40.18     17.17      57.35      74.00     -16.65       78        187      Peak
```

966Chamber_B at 3Meter / Vertical

```
  Freq.      Reading     C.F.      Result     Limit     Margin    Azimuth    Height    Remark
   MHz        dBuV       dB/m      dBuV/m     dBuV/m       dB        deg        cm
===================================================================================================

 3235.00      48.74      4.37      53.11      74.00     -20.89      117        200      Peak
 3780.00      48.10      5.63      53.73      74.00     -20.27       97        200      Peak
 5350.00      43.88      9.20      53.08      74.00     -20.92      123        100      Peak
 5400.00      42.33      9.32      51.65      54.00      -2.35      116        100      Average
 5400.00      46.28      9.32      55.60      74.00     -18.40      116        100      Peak

 7020.00      39.22     12.35      51.57      54.00      -2.43       18        202      Average
 7020.00      43.41     12.35      55.76      74.00     -18.24       18        202      Peak
 7560.00      41.37     12.45      53.82      54.00      -0.18       68        205      Average
 7560.00      44.31     12.45      56.76      74.00     -17.24       68        205      Peak
10800.00      36.04     17.17      53.21      54.00      -0.79       23        100      Average
10800.00      40.63     17.17      57.80      74.00     -16.20       23        100      Peak
```

Remark:
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Result = Reading + Correction Factor
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Davis Tseng
Test Model	CGNVM-3589	Test Date	2016/04/01
Test Mode	UNII Band 1 / IEEE 802.11ac VHT20 Mode TX / CH Middle / Beamforming	Temp. & Humidity	22°C, 56%

966Chamber_B at 3Meter / Horizontal

```
   Freq.     Reading    C.F.      Result    Limit     Margin    Azimuth   Height    Remark
   MHz       dBuV       dB/m      dBuV/m    dBuV/m    dB        deg       cm
==================================================================================================

   3240.00    49.35      4.37      53.72     74.00    -20.28     128       100       Peak
   5150.00    41.16      8.76      49.92     54.00     -4.08     298       160       Average
   5150.00    54.70      8.76      63.46     74.00    -10.54     298       160       Peak
   5350.00    43.34      9.20      52.54     74.00    -21.46      65       200       Peak
   5400.00    43.25      9.32      52.57     54.00     -1.43      88       197       Average
   5400.00    46.72      9.32      56.04     74.00    -17.96      88       197       Peak
   6936.00    39.67     12.25      51.92     74.00    -22.08      29       100       Peak
   7560.00    41.24     12.45      53.69     54.00     -0.31      89       201       Average
   7560.00    43.92     12.45      56.37     74.00    -17.63      89       201       Peak
  10404.00    34.33     16.33      50.66     54.00     -3.34     117       151       Average
  10404.00    45.86     16.33      62.19     74.00    -11.81     117       151       Peak
  10800.00    36.27     17.17      53.44     54.00     -0.56      98       188       Average
  10800.00    40.19     17.17      57.36     74.00    -16.64      98       188       Peak
```

966Chamber_B at 3Meter / Vertical

```
   Freq.     Reading    C.F.      Result    Limit     Margin    Azimuth   Height    Remark
   MHz       dBuV       dB/m      dBuV/m    dBuV/m    dB        deg       cm
==================================================================================================

   3240.00    48.62      4.37      52.99     74.00    -21.01      56       200       Peak
   5150.00    41.47      8.76      50.23     54.00     -3.77      31       144       Average
   5150.00    55.30      8.76      64.06     74.00     -9.94      31       144       Peak
   5350.00    43.17      9.20      52.37     74.00    -21.63      80       200       Peak
   5400.00    44.55      9.32      53.87     74.00    -20.13      85       200       Peak
   7020.00    39.22     12.35      51.57     54.00     -2.43      82       204       Average
   7020.00    43.39     12.35      55.74     74.00    -18.26      82       204       Peak
   7560.00    41.53     12.45      53.98     74.00    -20.02      63       200       Peak
  10392.00    29.66     16.30      45.96     54.00     -8.04     134       143       Average
  10392.00    41.39     16.30      57.69     74.00    -16.31     134       143       Peak
  10800.00    36.14     17.17      53.31     54.00     -0.69      87       100       Average
  10800.00    40.33     17.17      57.50     74.00    -16.50      87       100       Peak
```

Remark:
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Result = Reading + Correction Factor
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Davis Tseng
Test Model	CGNVM-3589	Test Date	2016/04/01
Test Mode	UNII Band 1 / IEEE 802.11ac VHT20 Mode TX / CH High / Beamforming	Temp. & Humidity	22°C, 56%

966Chamber_B at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
3240.00	49.04	4.37	53.41	74.00	-20.59	222	100	Peak
3780.00	46.33	5.63	51.96	54.00	-2.04	201	199	Average
3780.00	49.95	5.63	55.58	74.00	-18.42	201	200	Peak
4715.00	33.49	8.04	41.53	54.00	-12.47	272	100	Average
4715.00	46.99	8.04	55.03	74.00	-18.97	272	100	Peak
5150.00	43.85	8.76	52.61	74.00	-21.39	209	100	Peak
5350.00	44.08	9.20	53.28	74.00	-20.72	36	200	Peak
5400.00	41.21	9.32	50.53	54.00	-3.47	52	171	Average
5400.00	46.76	9.32	56.08	74.00	-17.92	52	171	Peak
7020.00	38.27	12.35	50.62	74.00	-23.38	128	100	Peak
7560.00	41.07	12.45	53.52	54.00	-0.48	78	202	Average
7560.00	43.66	12.45	56.11	74.00	-17.89	78	202	Peak
10476.00	31.67	16.52	48.19	54.00	-5.81	108	248	Average
10476.00	45.07	16.52	61.59	74.00	-12.41	108	248	Peak
10800.00	36.51	17.17	53.68	74.00	-20.32	74	200	Peak

966Chamber_B at 3Meter / Vertical

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
4640.00	33.49	7.94	41.43	54.00	-12.57	112	204	Average
4640.00	48.12	7.94	56.06	74.00	-17.94	112	204	Peak
5150.00	44.45	8.76	53.21	74.00	-20.79	25	100	Peak
5350.00	43.14	9.20	52.34	74.00	-21.66	236	200	Peak
5400.00	41.72	9.32	51.04	54.00	-2.96	96	226	Average
5400.00	47.35	9.32	56.67	74.00	-17.33	96	226	Peak
7020.00	38.89	12.35	51.24	54.00	-2.76	35	199	Average
7020.00	43.33	12.35	55.68	74.00	-18.32	35	199	Peak
7560.00	41.27	12.45	53.72	54.00	-0.28	76	204	Average
7560.00	43.96	12.45	56.41	74.00	-17.59	76	204	Peak
10488.00	29.31	16.56	45.87	54.00	-8.13	122	196	Average
10488.00	40.68	16.56	57.24	74.00	-16.76	122	196	Peak
10800.00	36.33	17.17	53.50	54.00	-0.50	76	100	Average
10800.00	40.26	17.17	57.43	74.00	-16.57	76	100	Peak

Remark:
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Result = Reading + Correction Factor
Margin = Result – Limit
Remark Peak = Result(PK) – Limit(PK)
Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Davis Tseng
Test Model	CGNVM-3589	Test Date	2016/04/02
Test Mode	UNII Band 1 / IEEE 802.11ac VHT40 Mode TX / CH Low / Beamforming	Temp. & Humidity	22°C, 56%

966Chamber_B at 3Meter / Horizontal

```
   Freq.     Reading    C.F.     Result    Limit    Margin   Azimuth   Height    Remark
    MHz        dBuV      dB/m     dBuV/m    dBuV/m     dB       deg       cm
 ==============================================================================================

  3240.00     47.27      4.37     51.64     54.00    -2.36     192       100      Average
  3240.00     50.33      4.37     54.70     74.00   -19.30     192       100      Peak
  3780.00     47.76      5.63     53.39     74.00   -20.61     198       200      Peak
  5350.00     44.70      9.20     53.90     74.00   -20.10     329       100      Peak
  5425.00     33.89      9.37     43.26     54.00   -10.74     140       100      Average
  5425.00     45.71      9.37     55.08     74.00   -18.92     140       100      Peak

  6924.00     38.97     12.23     51.20     74.00   -22.80      43       100      Peak
  7560.00     41.23     12.45     53.68     74.00   -20.32      94       200      Peak
 10800.00     36.58     17.17     53.75     74.00   -20.25      81       200      Peak
```

966Chamber_B at 3Meter / Vertical

```
   Freq.     Reading    C.F.     Result    Limit    Margin   Azimuth   Height    Remark
    MHz        dBuV      dB/m     dBuV/m    dBuV/m     dB       deg       cm
 ==============================================================================================

  3240.00     46.13      4.37     50.50     74.00   -23.50      93       100      Peak
  3780.00     46.24      5.63     51.87     74.00   -22.13     101       200      Peak
  5350.00     41.85      9.20     51.05     74.00   -22.95     317       200      Peak
  5400.00     43.91      9.32     53.23     74.00   -20.77     212       200      Peak

  6924.00     40.27     12.23     52.50     74.00   -21.50      81       200      Peak
  7020.00     39.28     12.35     51.63     54.00    -2.37      31       205      Average
  7020.00     43.39     12.35     55.74     74.00   -18.26      31       205      Peak
  7560.00     41.41     12.45     53.86     54.00    -0.14      40       204      Average
  7560.00     41.53     12.45     53.98     74.00   -20.02      40       204      Peak
 10800.00     36.11     17.17     53.28     54.00    -0.72      44       100      Average
 10800.00     40.39     17.17     57.56     74.00   -16.44      44       100      Peak
```

Remark:
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Result = Reading + Correction Factor
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Rex Chiu
Test Model	CGNVM-3589	Test Date	2016/04/06
Test Mode	UNII Band 1 / IEEE 802.11ac VHT40 Mode TX / CH High / Beamforming	Temp. & Humidity	22°C, 56%

966Chamber_B at 3Meter / Horizontal

```
   Freq.     Reading    C.F.      Result     Limit     Margin    Azimuth   Height    Remark
   MHz       dBuV       dB/m      dBuV/m     dBuV/m    dB        deg       cm
====================================================================================================

  3780.00    42.63      5.63      48.26      54.00     -5.74     192       200       Average
  3780.00    50.56      5.63      56.19      74.00    -17.81     192       200       Peak
  5150.00    40.35      8.76      49.11      54.00     -4.89       2       100       Average
  5150.00    51.31      8.76      60.07      74.00    -13.93       2       100       Peak
  5400.00    44.15      9.32      53.47      54.00     -0.53      65       200       Average
  5400.00    47.01      9.32      56.33      74.00    -17.67      65       200       Peak

  6972.00    38.36     12.30      50.66      74.00    -23.34      60       200       Peak
  7560.00    40.63     12.45      53.08      54.00     -0.92      94       187       Average
  7560.00    43.87     12.45      56.32      74.00    -17.68      94       187       Peak
 10800.00    36.31     17.17      53.48      54.00     -0.52      83       192       Average
 10800.00    40.27     17.17      57.44      74.00    -16.56      83       192       Peak
```

966Chamber_B at 3Meter / Vertical

```
   Freq.     Reading    C.F.      Result     Limit     Margin    Azimuth   Height    Remark
   MHz       dBuV       dB/m      dBuV/m     dBuV/m    dB        deg       cm
====================================================================================================

  3780.00    40.57      5.63      46.20      54.00     -7.80      90       200       Average
  3780.00    48.35      5.63      53.98      74.00    -20.02      90       200       Peak
  5150.00    40.40      8.76      49.16      54.00     -4.84     352       200       Average
  5150.00    51.44      8.76      60.20      74.00    -13.80     352       200       Peak
  5350.00    35.70      9.20      44.90      54.00     -9.10      65       100       Average
  5350.00    45.54      9.20      54.74      74.00    -19.26      65       100       Peak

  7020.00    39.17     12.35      51.52      54.00     -2.48      40       197       Average
  7020.00    43.44     12.35      55.79      74.00    -18.21      40       197       Peak
  7560.00    41.22     12.45      53.67      54.00     -0.33      63       205       Average
  7560.00    44.29     12.45      56.74      74.00    -17.26      63       205       Peak
 10800.00    36.39     17.17      53.56      54.00     -0.44      58       100       Average
 10800.00    40.22     17.17      57.39      74.00    -16.61      58       100       Peak
```

Remark:
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Rex Chiu
Test Model	CGNVM-3589	Test Date	2016/04/06
Test Mode	UNII Band 1 / IEEE 802.11ac VHT80 Mode TX / CH Low / Beamforming	Temp. & Humidity	22°C, 56%

966Chamber_B at 3Meter / Horizontal

```
   Freq.      Reading     C.F.      Result     Limit      Margin    Azimuth    Height     Remark
   MHz        dBuV        dB/m      dBuV/m     dBuV/m     dB        deg        cm
==================================================================================================

   3240.00     47.23      4.37      51.60      54.00      -2.40     334        100        Average
   3240.00     49.18      4.37      53.55      74.00      -20.45    334        100        Peak
   3780.00     41.32      5.63      46.95      54.00      -7.05     164        100        Average
   3780.00     49.04      5.63      54.67      74.00      -19.33    164        100        Peak
   5400.00     44.16      9.32      53.48      54.00      -0.52     57         200        Average
   5400.00     46.36      9.32      55.68      74.00      -18.32    57         200        Peak

   7020.00     39.31      12.35     51.66      54.00      -2.34     34         205        Average
   7020.00     43.41      12.35     55.76      74.00      -18.24    34         205        Peak
   7560.00     41.42      12.45     53.87      54.00      -0.13     74         206        Average
   7560.00     44.43      12.45     56.88      74.00      -17.12    74         206        Peak
  10800.00     36.12      17.17     53.29      54.00      -0.71     71         100        Average
  10800.00     40.28      17.17     57.45      74.00      -16.55    71         100        Peak
```

966Chamber_B at 3Meter / Vertical

```
   Freq.      Reading     C.F.      Result     Limit      Margin    Azimuth    Height     Remark
   MHz        dBuV        dB/m      dBuV/m     dBuV/m     dB        deg        cm
==================================================================================================

   3240.00     46.75      4.37      51.12      54.00      -2.88     99         200        Average
   3240.00     48.67      4.37      53.04      74.00      -20.96    99         200        Peak
   3780.00     39.67      5.63      45.30      54.00      -8.70     83         200        Average
   3780.00     47.34      5.63      52.97      74.00      -21.03    83         200        Peak
   5400.00     43.86      9.32      53.18      54.00      -0.82     62         200        Average
   5400.00     46.26      9.32      55.58      74.00      -18.42    62         200        Peak
   6948.00     39.23      12.27     51.50      74.00      -22.50    137        200        Peak
   7560.00     41.26      12.45     53.71      54.00      -0.29     81         201        Average
   7560.00     43.98      12.45     56.43      74.00      -17.57    81         201        Peak
  10800.00     36.31      17.17     53.48      54.00      -0.52     76         185        Average
  10800.00     40.22      17.17     57.39      74.00      -16.61    76         185        Peak
```

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Result = Reading + Correction Factor
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Rex Chiu
Test Model	CGNVM-3589	Test Date	2016/04/06
Test Mode	UNII Band 3 / IEEE 802.11ac VHT20 Mode TX / CH Low / Beamforming	Temp. & Humidity	22°C, 56%

966Chamber_B at 3Meter / Horizontal

```
   Freq.     Reading     C.F.      Result    Limit     Margin    Azimuth   Height   Remark
   MHz       dBuV        dB/m      dBuV/m    dBuV/m    dB        deg       cm
===============================================================================================

   5400.00     44.12      9.32      53.44     54.00     -0.56      104       200     Average
   5400.00     46.75      9.32      56.07     74.00    -17.93      104       200     Peak
   5715.00     46.62     10.03      56.65     68.20    -11.55      217       100     Peak
   5725.00     55.33     10.05      65.38     78.20    -12.82      347       100     Peak
   7560.00     38.35     12.45      50.80     74.00    -23.20       10       100     Peak
   8724.00     36.99     13.21      50.20     74.00    -23.80       82       100     Peak
  11496.00     32.12     18.36      50.48     54.00     -3.52       67       100     Average
  11496.00     37.57     18.36      55.93     74.00    -18.07       67       100     Peak
```

966Chamber_B at 3Meter / Vertical

```
   Freq.     Reading     C.F.      Result    Limit     Margin    Azimuth   Height   Remark
   MHz       dBuV        dB/m      dBuV/m    dBuV/m    dB        deg       cm
===============================================================================================

   3780.00     40.13      5.63      45.76     54.00     -8.24      121       100     Average
   3780.00     48.28      5.63      53.91     74.00    -20.09      121       100     Peak
   5715.00     55.70     10.03      65.73     68.20     -2.47       54       200     Peak
   5725.00     67.70     10.05      77.75     78.20     -0.45      343       200     Peak
   7020.00     40.33     12.35      52.68     54.00     -1.32       56       200     Average
   7020.00     42.23     12.35      54.58     74.00    -19.42       56       200     Peak
   7560.00     41.18     12.45      53.63     54.00     -0.37       69       200     Average
   7560.00     43.34     12.45      55.79     74.00    -18.21       69       200     Peak
  10800.00     35.32     17.17      52.49     54.00     -1.51       66       200     Average
  10800.00     38.89     17.17      56.06     74.00    -17.94       66       200     Peak
  11484.00     33.08     18.34      51.42     54.00     -2.58      311       200     Average
  11484.00     37.97     18.34      56.31     74.00    -17.69      311       200     Peak
```

Remark:
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Rex Chiu
Test Model	CGNVM-3589	Test Date	2016/04/06
Test Mode	UNII Band 3 / IEEE 802.11ac VHT20 Mode TX / CH Middle / Beamforming	Temp. & Humidity	22°C, 56%

966Chamber_B at 3Meter / Horizontal

```
   Freq.     Reading     C.F.      Result     Limit      Margin    Azimuth   Height    Remark
   MHz       dBuV        dB/m      dBuV/m     dBuV/m     dB        deg       cm

===========================================================================================

  3240.00    48.16       4.37      52.53      54.00      -1.47     203       100       Average
  3240.00    50.27       4.37      54.64      74.00      -19.36    203       100       Peak
  5710.00    44.96      10.01      54.97      68.20      -13.23     89       200       Peak
  5960.00    44.52      10.58      55.10      68.20      -13.10    237       200       Peak
  7560.00    40.80      12.45      53.25      54.00      -0.75      92       200       Average
  7560.00    42.42      12.45      54.87      74.00      -19.13     92       200       Peak
 10800.00    33.50      17.17      50.67      54.00      -3.33      78       200       Average
 10800.00    36.92      17.17      54.09      74.00      -19.91     78       200       Peak
 11568.00    34.50      18.53      53.03      54.00      -0.97     139       200       Average
 11568.00    39.97      18.53      58.50      74.00      -15.50    139       200       Peak
```

966Chamber_B at 3Meter / Vertical

```
   Freq.     Reading     C.F.      Result     Limit      Margin    Azimuth   Height    Remark
   MHz       dBuV        dB/m      dBuV/m     dBuV/m     dB        deg       cm

===========================================================================================

  5400.00    43.72       9.32      53.04      54.00      -0.96      87       200       Average
  5400.00    45.62       9.32      54.94      74.00      -19.06     87       200       Peak
  5710.00    46.44      10.01      56.45      68.20      -11.75    152       200       Peak
  5860.00    44.69      10.35      55.04      68.20      -13.16    142       200       Peak
  7020.00    40.93      12.35      53.28      54.00      -0.72      52       200       Average
  7020.00    42.89      12.35      55.24      74.00      -18.76     52       200       Peak
  7560.00    41.32      12.45      53.77      54.00      -0.23      61       200       Average
  7560.00    42.82      12.45      55.27      74.00      -18.73     61       200       Peak
 10800.00    36.36      17.17      53.53      54.00      -0.47      67       100       Average
 10800.00    40.46      17.17      57.63      74.00      -16.37     67       100       Peak
 11568.00    32.60      18.53      51.13      54.00      -2.87     216       100       Average
 11568.00    38.13      18.53      56.66      74.00      -17.34    216       100       Peak
```

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Rex Chiu
Test Model	CGNVM-3589	Test Date	2016/04/06
Test Mode	UNII Band 3 / IEEE 802.11ac VHT20 Mode TX / CH High / Beamforming	Temp. & Humidity	22°C, 56%

966Chamber_B at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5400.00	44.17	9.32	53.49	54.00	-0.51	98	200	Average
5400.00	46.27	9.32	55.59	74.00	-18.41	98	200	Peak
5850.00	51.95	10.33	62.28	78.20	-15.92	262	100	Peak
5865.00	46.13	10.36	56.49	68.20	-11.71	280	200	Peak
7560.00	40.36	12.45	52.81	54.00	-1.19	105	200	Average
7560.00	42.75	12.45	55.20	74.00	-18.80	105	200	Peak
10800.00	34.59	17.17	51.76	54.00	-2.24	110	200	Average
10800.00	38.07	17.17	55.24	74.00	-18.76	110	200	Peak
11664.00	32.66	18.74	51.40	54.00	-2.60	124	200	Average
11664.00	38.25	18.74	56.99	74.00	-17.01	124	200	Peak

966Chamber_B at 3Meter / Vertical

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
3240.00	48.59	4.37	52.96	54.00	-1.04	103	200	Average
3240.00	50.57	4.37	54.94	74.00	-19.06	103	200	Peak
5850.00	55.26	10.33	65.59	78.20	-12.61	6	200	Peak
5875.00	48.30	10.39	58.69	68.20	-9.51	312	200	Peak
7020.00	39.76	12.35	52.11	54.00	-1.89	22	200	Average
7020.00	42.73	12.35	55.08	74.00	-18.92	22	200	Peak
7560.00	40.97	12.45	53.42	54.00	-0.58	63	200	Average
7560.00	42.67	12.45	55.12	74.00	-18.88	63	200	Peak
10800.00	35.20	17.17	52.37	54.00	-1.63	80	100	Average
10800.00	39.61	17.17	56.78	74.00	-17.22	80	100	Peak
11652.00	31.47	18.72	50.19	54.00	-3.81	94	200	Average
11652.00	37.04	18.72	55.76	74.00	-18.24	94	200	Peak

Remark:
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Rex Chiu
Test Model	CGNVM-3589	Test Date	2016/04/06
Test Mode	UNII Band 3 / IEEE 802.11ac VHT40 Mode TX / CH Low / Beamforming	Temp. & Humidity	22°C, 56%

966Chamber_B at 3Meter / Horizontal

```
   Freq.     Reading    C.F.    Result    Limit    Margin    Azimuth   Height   Remark
    MHz        dBuV      dB/m    dBuV/m    dBuV/m     dB        deg       cm
===========================================================================================

  3240.00     48.35     4.37    52.72     54.00    -1.28      205       100     Average
  3240.00     50.30     4.37    54.67     74.00   -19.33      205       100     Peak
  5715.00     49.65    10.03    59.68     74.00   -14.32        1       200     Peak
  5725.00     50.87    10.05    60.92     74.00   -13.08      334       100     Peak

  7560.00     40.96    12.45    53.41     54.00    -0.59      102       200     Average
  7560.00     42.50    12.45    54.95     74.00   -19.05      102       200     Peak
  9444.00     36.98    14.50    51.48     74.00   -22.52       60       100     Peak
 10800.00     35.67    17.17    52.84     54.00    -1.16       71       200     Average
 10800.00     39.33    17.17    56.50     74.00   -17.50       71       200     Peak
```

966Chamber_B at 3Meter / Vertical

```
   Freq.     Reading    C.F.    Result    Limit    Margin    Azimuth   Height   Remark
    MHz        dBuV      dB/m    dBuV/m    dBuV/m     dB        deg       cm
===========================================================================================

  3780.00     40.29     5.63    45.92     54.00    -8.08       82       200     Average
  3780.00     48.15     5.63    53.78     74.00   -20.22       82       200     Peak
  5712.50     55.52    10.03    65.55     68.20    -2.65        0       100     Peak
  5723.50     60.25    10.04    70.29     78.20    -7.91        0       100     Peak

  7020.00     40.35    12.35    52.70     54.00    -1.30       62       100     Average
  7020.00     42.40    12.35    54.75     74.00   -19.25       62       100     Peak
  7560.00     40.24    12.45    52.69     54.00    -1.31       71       200     Average
  7560.00     41.92    12.45    54.37     74.00   -19.63       71       200     Peak
 10800.00     36.19    17.17    53.36     54.00    -0.64       71       100     Average
 10800.00     40.79    17.17    57.96     74.00   -16.04       71       100     Peak
```

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Result = Reading + Correction Factor
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Rex Chiu
Test Model	CGNVM-3589	Test Date	2016/04/06
Test Mode	UNII Band 3 / IEEE 802.11ac VHT40 Mode TX / CH High / Beamforming	Temp. & Humidity	22°C, 56%

966Chamber_B at 3Meter / Horizontal

```
  Freq.      Reading     C.F.      Result     Limit     Margin     Azimuth    Height     Remark
   MHz        dBuV       dB/m      dBuV/m     dBuV/m       dB         deg        cm
=================================================================================================

 5715.00      45.76      10.03      55.79      68.20     -12.41      264        100        Peak
 5725.00      48.40      10.05      58.45      78.20     -19.75      259        100        Peak
 5850.00      47.20      10.33      57.53      78.20     -20.67      262        100        Peak
 5860.00      44.43      10.35      54.78      68.20     -13.42      248        100        Peak

 7560.00      40.91      12.45      53.36      54.00      -0.64       64        200        Average
 7560.00      42.36      12.45      54.81      74.00     -19.19       64        200        Peak
10800.00      35.34      17.17      52.51      54.00      -1.49      100        200        Average
10800.00      37.32      17.17      54.49      74.00     -19.51      100        200        Peak
11604.00      32.85      18.61      51.46      54.00      -2.54      109        200        Average
11604.00      38.45      18.61      57.06      74.00     -16.94      109        200        Peak
```

966Chamber_B at 3Meter / Vertical

```
  Freq.      Reading     C.F.      Result     Limit     Margin     Azimuth    Height     Remark
   MHz        dBuV       dB/m      dBuV/m     dBuV/m       dB         deg        cm
=================================================================================================

 5715.00      49.71      10.03      59.74      68.20      -8.46      278        100        Peak
 5720.00      52.42      10.04      62.46      78.20     -15.74      276        200        Peak
 5850.00      50.16      10.33      60.49      78.20     -17.71      176        200        Peak
 5860.00      49.26      10.35      59.61      68.20      -8.59      217        200        Peak

 7020.00      39.87      12.35      52.22      54.00      -1.78       88        100        Average
 7020.00      41.83      12.35      54.18      74.00     -19.82       88        100        Peak
 7560.00      40.62      12.45      53.07      54.00      -0.93       73        200        Average
 7560.00      42.57      12.45      55.02      74.00     -18.98       73        200        Peak
10800.00      36.23      17.17      53.40      54.00      -0.60       70        100        Average
10800.00      39.93      17.17      57.10      74.00     -16.90       70        100        Peak
11580.00      31.69      18.55      50.24      54.00      -3.76      307        200        Average
11580.00      37.25      18.55      55.80      74.00     -18.20      307        200        Peak
```
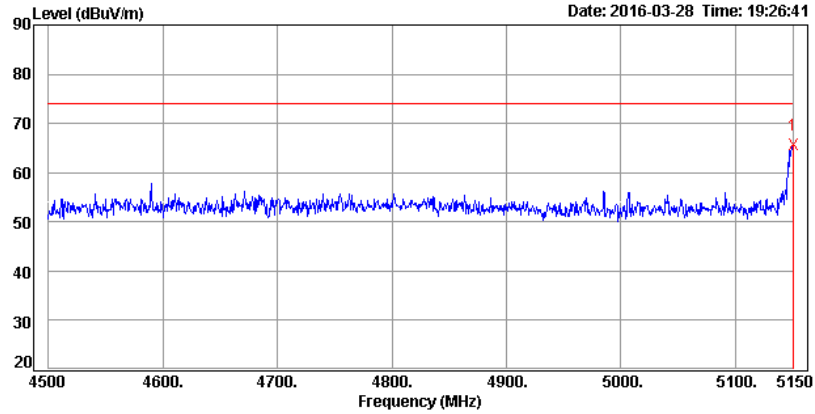
Remark:
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Moca AP cable Modem	Test By	Rex Chiu
Test Model	CGNVM-3589	Test Date	2016/04/06
Test Mode	UNII Band 3 / IEEE 802.11ac VHT80 Mode TX / CH Low / Beamforming	Temp. & Humidity	22°C, 56%

966Chamber_B at 3Meter / Horizontal

```
   Freq.    Reading    C.F.     Result    Limit    Margin   Azimuth   Height   Remark
    MHz      dBuV       dB/m     dBuV/m    dBuV/m     dB       deg       cm
  ===================================================================================

  5685.00    49.57      9.96     59.53     68.20     -8.67     312       100     Peak
  5725.00    47.65     10.05     57.70     78.20    -20.50     140       200     Peak
  5850.00    48.75     10.33     59.08     78.20    -19.12      11       100     Peak
  5860.00    47.57     10.35     57.92     68.20    -10.28     267       100     Peak

  7020.00    38.66     12.35     51.01     74.00    -22.99     298       200     Peak
  7560.00    40.71     12.45     53.16     54.00     -0.84      61       200     Average
  7560.00    42.43     12.45     54.88     74.00    -19.12      61       200     Peak
 10800.00    36.12     17.17     53.29     54.00     -0.71      70       200     Average
 10800.00    39.74     17.17     56.91     74.00    -17.09      70       200     Peak
```

966Chamber_B at 3Meter / Vertical

```
   Freq.    Reading    C.F.     Result    Limit    Margin   Azimuth   Height   Remark
    MHz      dBuV       dB/m     dBuV/m    dBuV/m     dB       deg       cm
  ===================================================================================

  5690.00    57.44      9.97     67.41     68.20     -0.79     356       200     Peak
  5725.00    62.96     10.05     73.01     78.20     -5.19     139       200     Peak
  5855.00    55.60     10.34     65.94     78.20    -12.26       1       200     Peak
  5860.00    54.80     10.35     65.15     68.20     -3.05       0       200     Peak

  7020.00    40.19     12.35     52.54     54.00     -1.46      37       200     Average
  7020.00    42.16     12.35     54.51     74.00    -19.49      37       200     Peak
  7560.00    40.93     12.45     53.38     54.00     -0.62      73       200     Average
  7560.00    42.64     12.45     55.09     74.00    -18.91      73       200     Peak
 10800.00    36.37     17.17     53.54     54.00     -0.46      57       100     Average
 10800.00    39.92     17.17     57.09     74.00    -16.91      57       100     Peak
```

Remark:
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

Restricted Band Edges

Non-beamforming

Detector Mode: Peak   **Polarity: Horizontal**

CH Low (IEEE 802.11a Mode / Band 1)

Data: 84

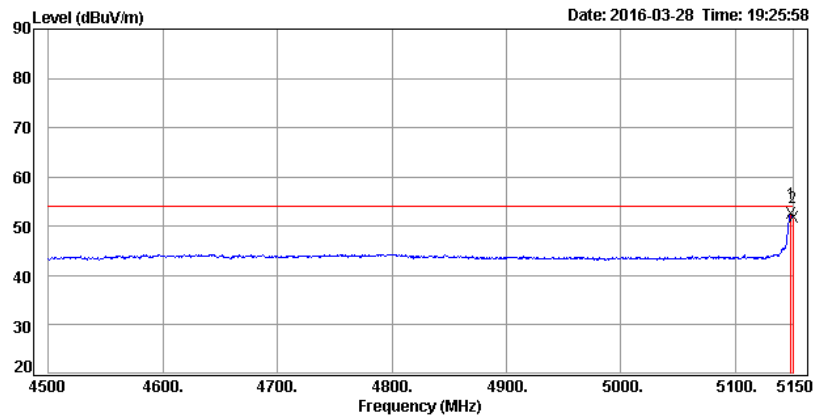Level (dBuV/m)   Date: 2016-03-28 Time: 19:26:41

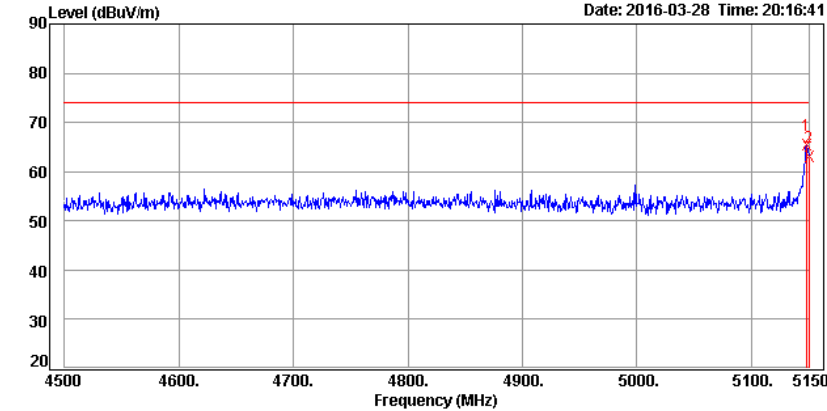Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5150.00	56.96	8.76	65.72	74.00	-8.28			Peak

Detector Mode: Average   **Polarity: Horizontal**

CH Low (IEEE 802.11a Mode / Band 1)

Data: 83

Level (dBuV/m)   Date: 2016-03-28 Time: 19:25:58

Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5148.70	43.92	8.75	52.67	54.00	-1.33			Average
5150.00	42.95	8.76	51.71	54.00	-2.29			Average

Detector Mode: Peak **Polarity: Vertical**

CH Low (IEEE 802.11a Mode / Band 1)

Data: 82

Level (dBuV/m)

Date: 2016-03-28 Time: 19:06:36
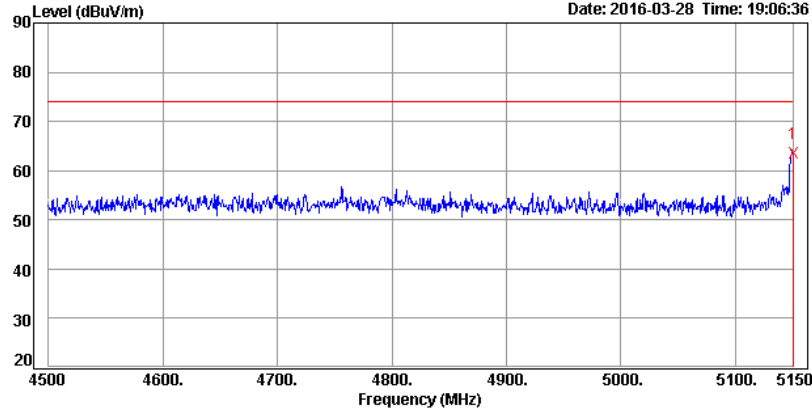
```
Trace:
    Freq.      Reading    C.F.      Result    Limit     Margin    Azimuth   Height    Remark
    MHz        dBuV       dB/m      dBuV/m    dBuV/m    dB        deg       cm
    =====================================================================================

    5150.00    54.89      8.76      63.65     74.00     -10.35                        Peak
```

Detector Mode: Average **Polarity: Vertical**

CH Low (IEEE 802.11a Mode / Band 1)

Data: 81

Level (dBuV/m)

Date: 2016-03-28 Time: 19:05:22
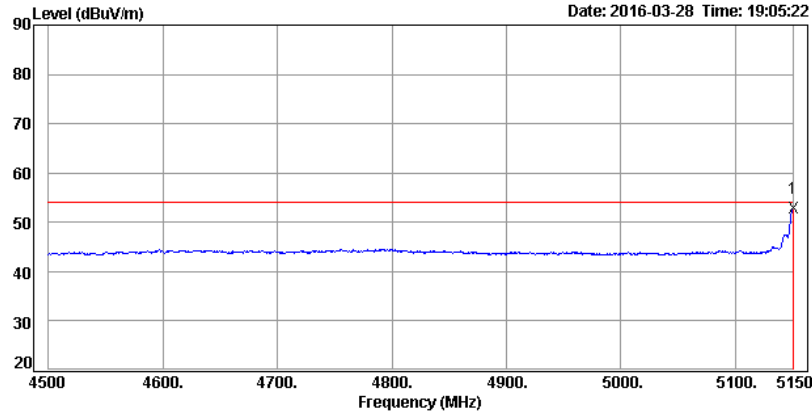
```
Trace:
    Freq.      Reading    C.F.      Result    Limit     Margin    Azimuth   Height    Remark
    MHz        dBuV       dB/m      dBuV/m    dBuV/m    dB        deg       cm
    =====================================================================================

    5150.00    44.04      8.76      52.80     54.00     -1.20                         Average
```

Detector Mode: Peak   **Polarity: Horizontal**
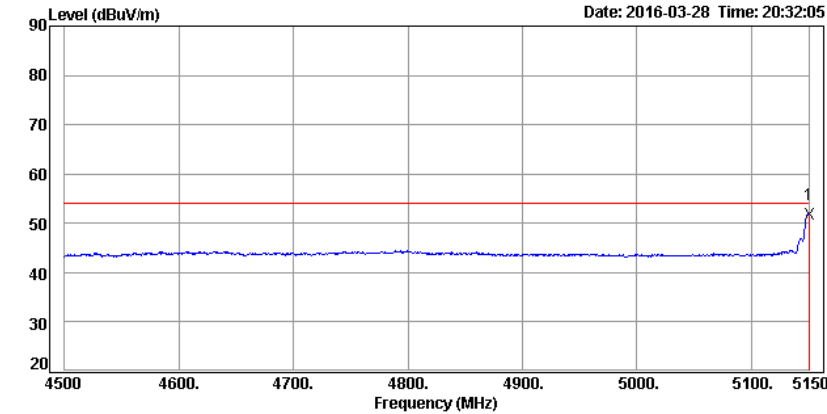
CH Low (IEEE 802.11ac VHT20 Mode / Band 1)

Data: 88

Level (dBuV/m)   Date: 2016-03-28 Time: 20:16:41

Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5148.05	56.61	8.75	65.36	74.00	-8.64			Peak
5150.00	54.15	8.76	62.91	74.00	-11.09			Peak

Detector Mode: Average   **Polarity: Horizontal**

CH Low (IEEE 802.11ac VHT20 Mode / Band 1)

Data: 87
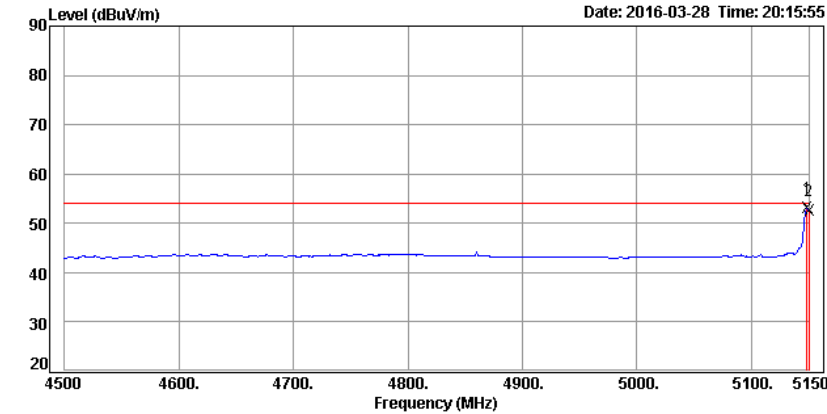
Level (dBuV/m)   Date: 2016-03-28 Time: 20:15:55

Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5148.70	44.35	8.75	53.10	54.00	-0.90			Average
5150.00	43.75	8.76	52.51	54.00	-1.49			Average

Detector Mode: Peak   **Polarity: Vertical**

CH Low (IEEE 802.11ac VHT20 Mode / Band 1)

Data: 86

Level (dBuV/m)   Date: 2016-03-28 Time: 19:40:04
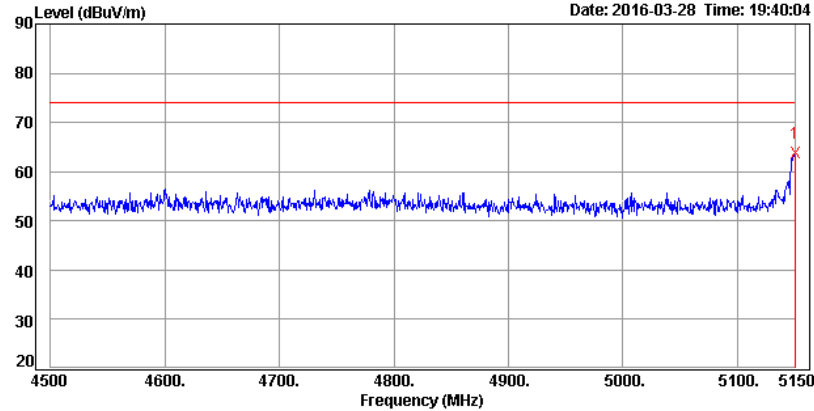
Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5150.00	54.95	8.76	63.71	74.00	-10.29			Peak

Detector Mode: Average   **Polarity: Vertical**

CH Low (IEEE 802.11ac VHT20 Mode / Band 1)

Data: 85

Level (dBuV/m)   Date: 2016-03-28 Time: 19:39:29
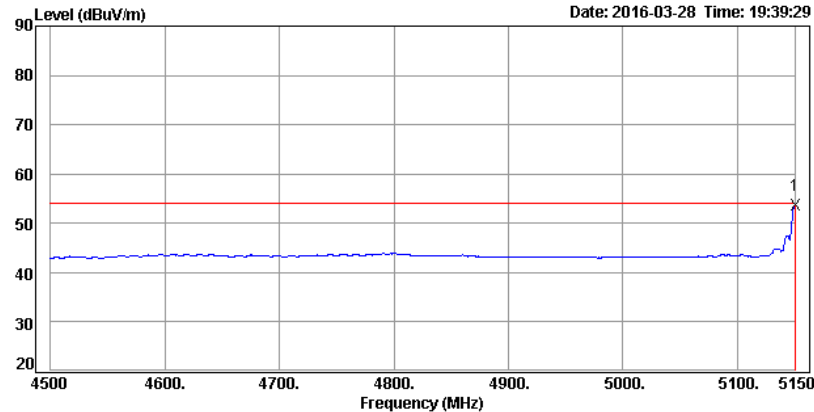
Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5150.00	44.98	8.76	53.74	54.00	-0.26			Average

Detector Mode: Peak   Polarity: Horizontal

CH Low (IEEE 802.11ac VHT40 Mode / Band 1)

Data: 92
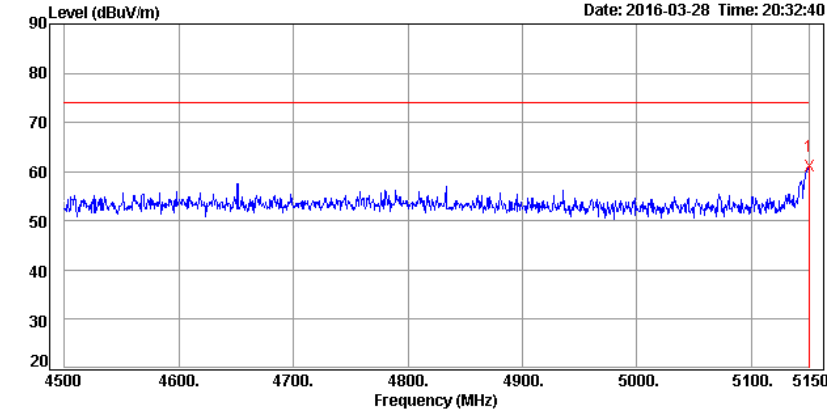
Date: 2016-03-28 Time: 20:32:40

Level (dBuV/m)

Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5150.00	52.47	8.76	61.23	74.00	-12.77			Peak

Detector Mode: Average   Polarity: Horizontal

CH Low (IEEE 802.11ac VHT40 Mode / Band 1)

Data: 91

Date: 2016-03-28 Time: 20:32:05

Level (dBuV/m)

Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5150.00	43.01	8.76	51.77	54.00	-2.23			Average

Detector Mode: Peak   **Polarity: Vertical**

CH Low (IEEE 802.11ac VHT40 Mode / Band 1)

Data: 90
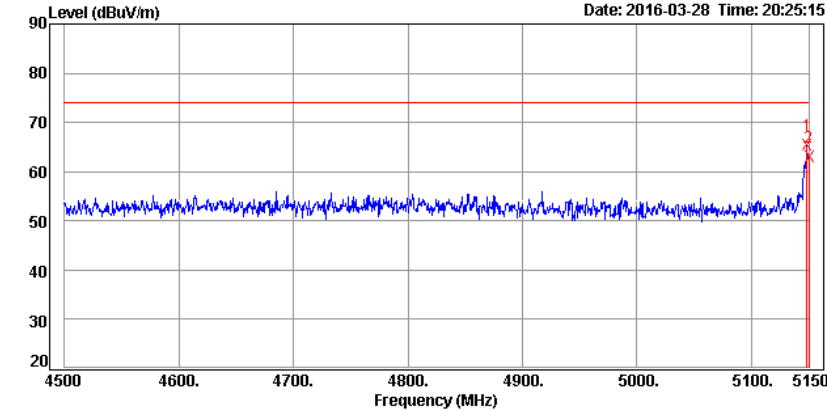
Level (dBuV/m)   Date: 2016-03-28 Time: 20:25:15

Frequency (MHz)

Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5148.70	56.62	8.75	65.37	74.00	-8.63			Peak
5150.00	54.34	8.76	63.10	74.00	-10.90			Peak

Detector Mode: Average   **Polarity: Vertical**

CH Low (IEEE 802.11ac VHT40 Mode / Band 1)

Data: 89
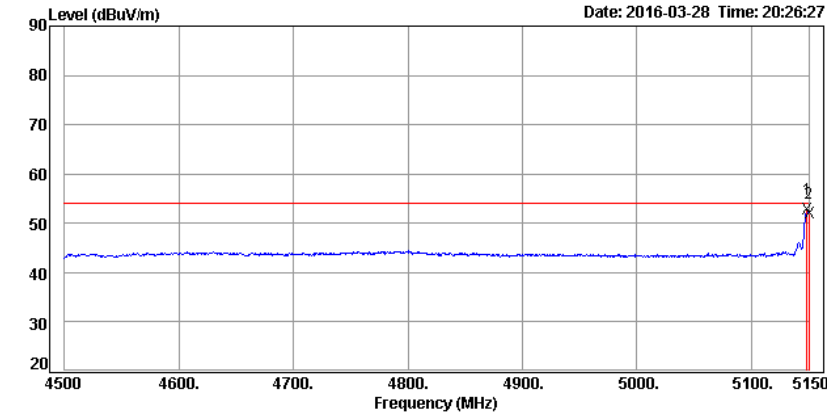
Level (dBuV/m)   Date: 2016-03-28 Time: 20:26:27

Frequency (MHz)

Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5148.70	44.11	8.75	52.86	54.00	-1.14			Average
5150.00	43.26	8.76	52.02	54.00	-1.98			Average

Detector Mode: Peak   **Polarity: Horizontal**

CH Low (IEEE 802.11ac VHT80 Mode / Band 1)

Data: 96
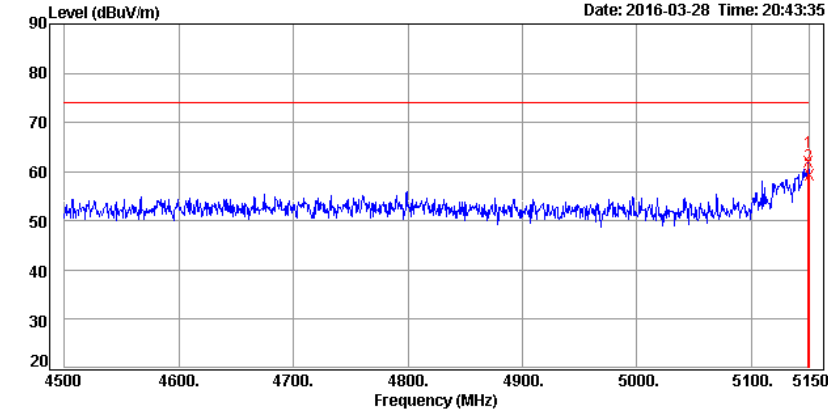
Level (dBuV/m)   Date: 2016-03-28 Time: 20:43:35

Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5149.35	53.05	8.75	61.80	74.00	-12.20			Peak
5150.00	50.57	8.76	59.33	74.00	-14.67			Peak

Detector Mode: Average   **Polarity: Horizontal**

CH Low (IEEE 802.11ac VHT80 Mode / Band 1)

Data: 95
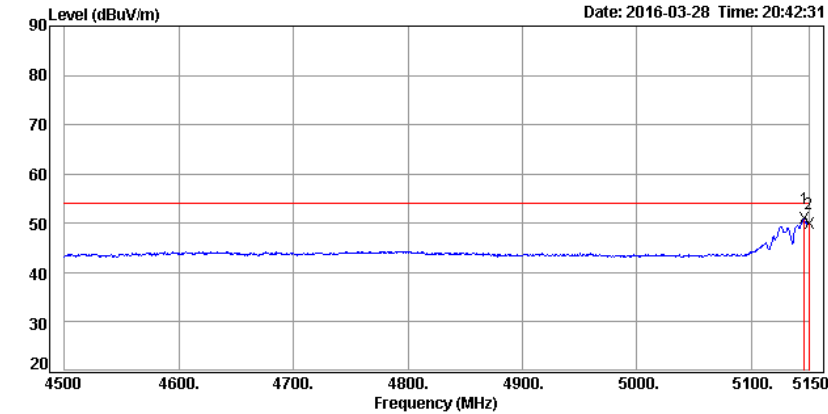
Level (dBuV/m)   Date: 2016-03-28 Time: 20:42:31

Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5146.10	42.25	8.75	51.00	54.00	-3.00			Average
5150.00	41.30	8.76	50.06	54.00	-3.94			Average

Detector Mode: Peak   **Polarity: Vertical**

CH Low (IEEE 802.11ac VHT80 Mode / Band 1)

Data: 94
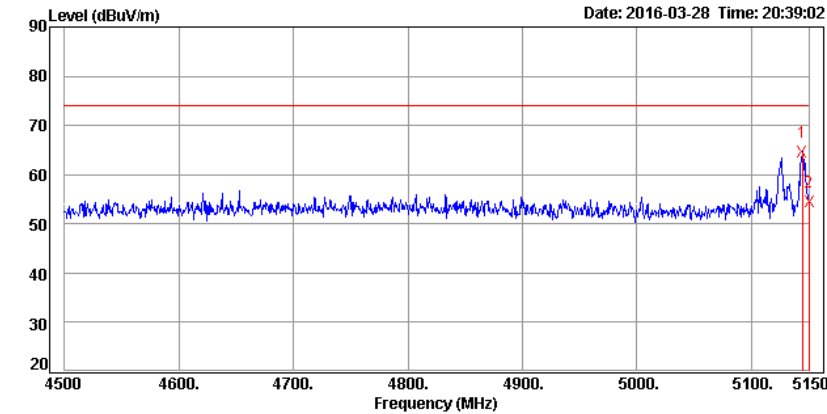
Level (dBuV/m)   Date: 2016-03-28 Time: 20:39:02

Frequency (MHz)

Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5144.15	55.91	8.74	64.65	74.00	-9.35			Peak
5150.00	45.73	8.76	54.49	74.00	-19.51			Peak

Detector Mode: Average   **Polarity: Vertical**

CH Low (IEEE 802.11ac VHT80 Mode / Band 1)

Data: 93
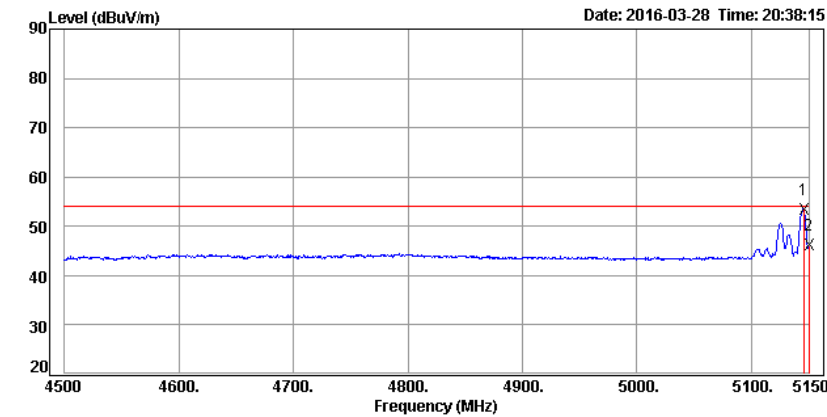
Level (dBuV/m)   Date: 2016-03-28 Time: 20:38:15

Frequency (MHz)

Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5145.45	44.77	8.75	53.52	54.00	-0.48			Average
5150.00	37.33	8.76	46.09	54.00	-7.91			Average

Beamforming

Detector Mode: Peak   **Polarity: Horizontal**

CH Low (IEEE 802.11ac VHT20 Mode / Band 1)

Data: 182
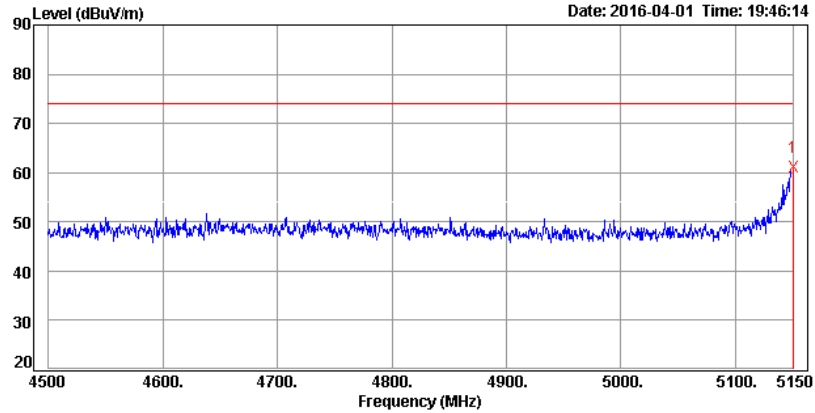
Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5150.00	52.29	8.76	61.05	74.00	-12.95			Peak

Detector Mode: Average   **Polarity: Horizontal**

CH Low (IEEE 802.11ac VHT20 Mode / Band 1)

Data: 181
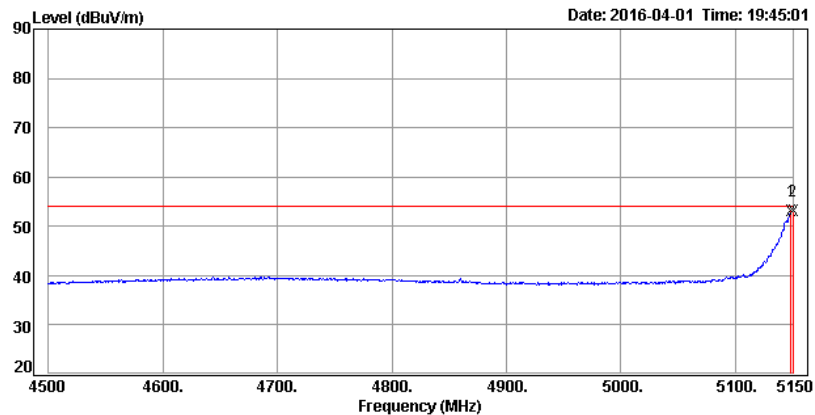
Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5148.70	44.45	8.75	53.20	54.00	-0.80			Average
5150.00	44.29	8.76	53.05	54.00	-0.95			Average

Detector Mode: Peak   Polarity: Vertical

CH Low (IEEE 802.11ac VHT20 Mode / Band 1)

Data: 180
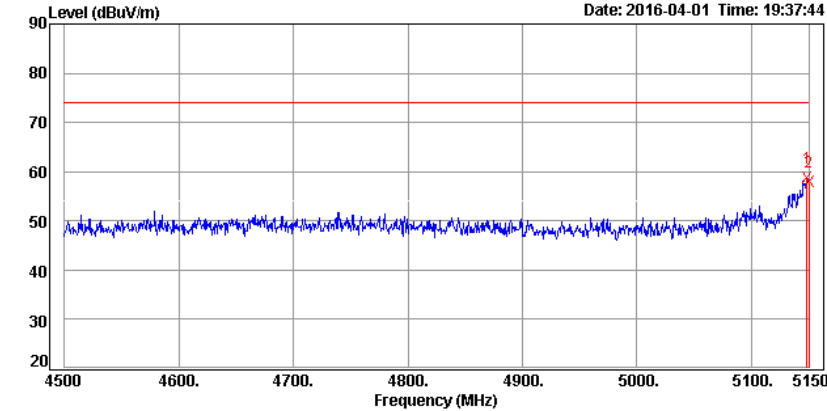
Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5148.70	49.93	8.75	58.68	74.00	-15.32			Peak
5150.00	49.04	8.76	57.80	74.00	-16.20			Peak

Detector Mode: Average   Polarity: Vertical

CH Low (IEEE 802.11ac VHT20 Mode / Band 1)

Data: 179
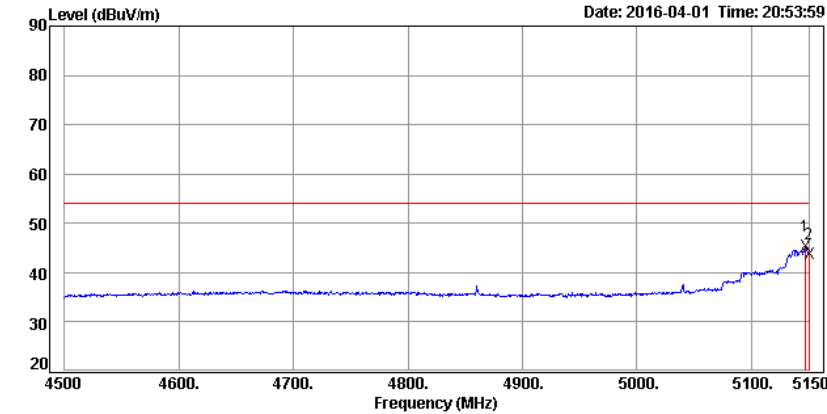
Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5146.75	36.69	8.75	45.44	54.00	-8.56			Average
5150.00	35.11	8.76	43.87	54.00	-10.13			Average

Detector Mode: Peak **Polarity: Horizontal**

CH Low (IEEE 802.11ac VHT40 Mode / Band 1)

Data: 184

Level (dBuV/m)

Date: 2016-04-01 Time: 19:57:49
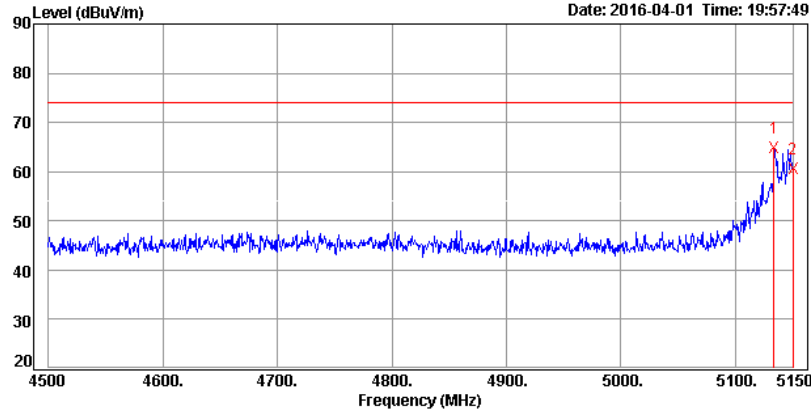
Frequency (MHz)

Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5133.75	56.18	8.72	64.90	74.00	-9.10			Peak
5150.00	51.94	8.76	60.70	74.00	-13.30			Peak

Detector Mode: Average **Polarity: Horizontal**

CH Low (IEEE 802.11ac VHT40 Mode / Band 1)

Data: 183

Level (dBuV/m)

Date: 2016-04-01 Time: 19:56:57
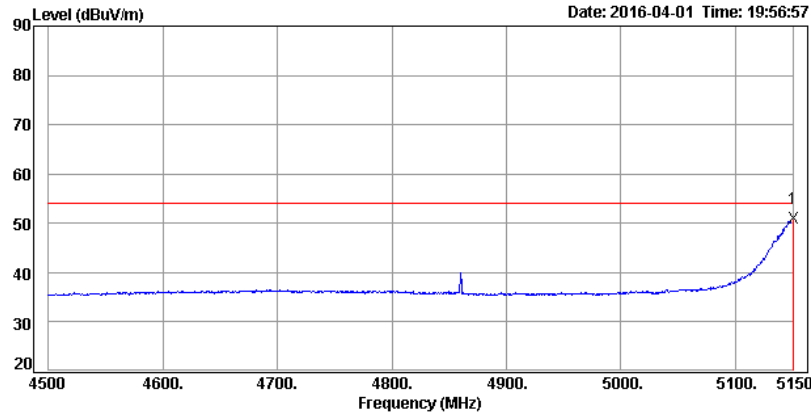
Frequency (MHz)

Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5150.00	42.18	8.76	50.94	54.00	-3.06			Average

Detector Mode: Peak   **Polarity: Vertical**

CH Low (IEEE 802.11ac VHT40 Mode / Band 1)

Data: 186
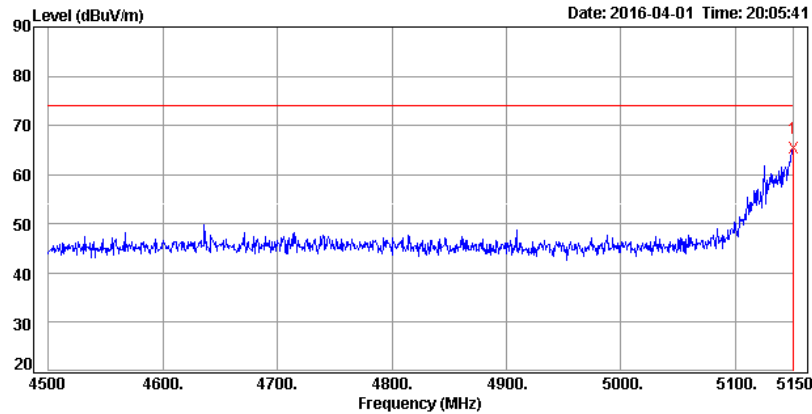
Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5150.00	56.51	8.76	65.27	74.00	-8.73			Peak

Detector Mode: Average   **Polarity: Vertical**

CH Low (IEEE 802.11ac VHT40 Mode / Band 1)

Data: 185
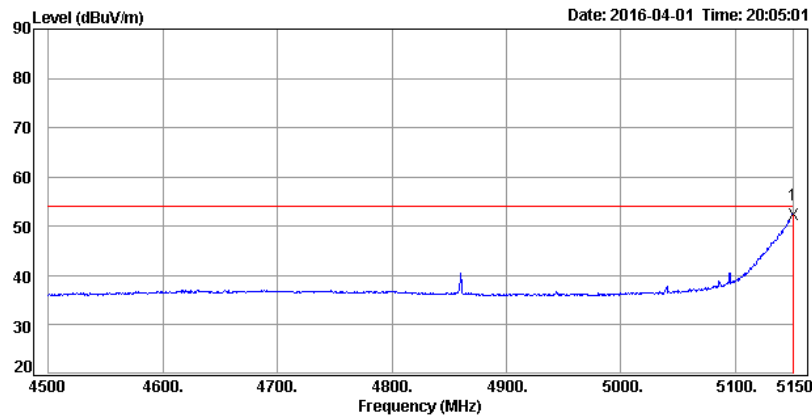
Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5150.00	43.61	8.76	52.37	54.00	-1.63			Average

Detector Mode: Peak   **Polarity: Horizontal**

CH Low (IEEE 802.11ac VHT80 Mode / Band 1)
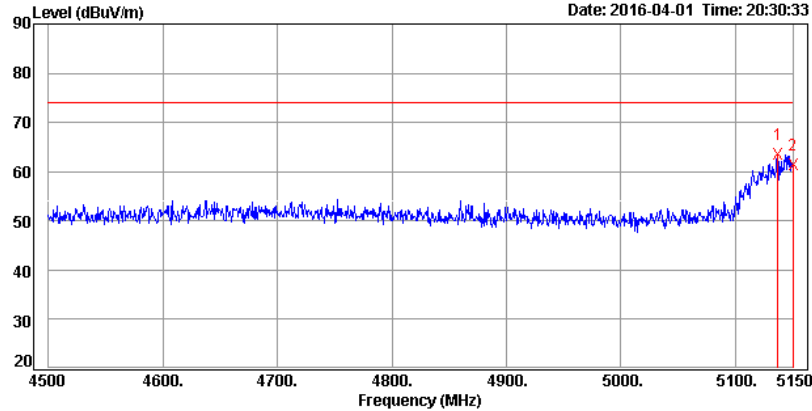
Data: 188

Date: 2016-04-01 Time: 20:30:33

Trace:

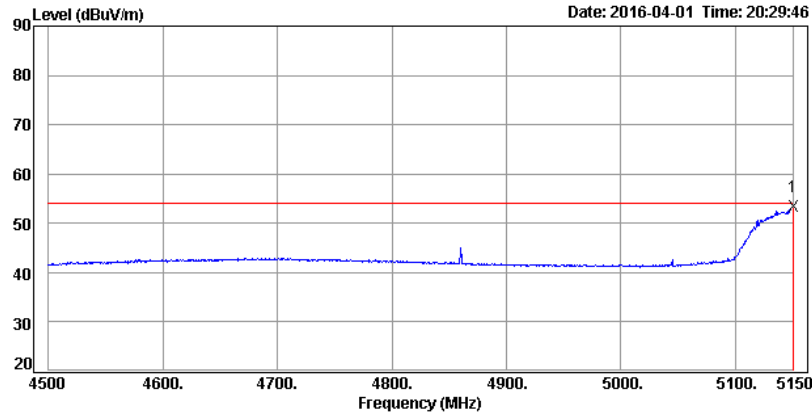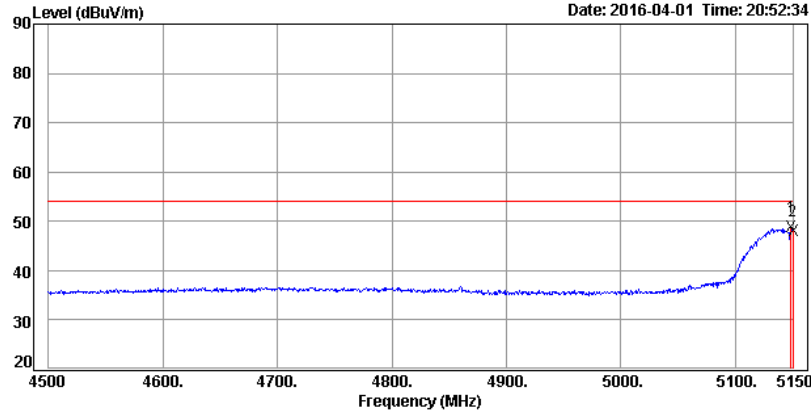| Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5137.00	54.83	8.73	63.56	74.00	-10.44			Peak
5150.00	52.72	8.76	61.48	74.00	-12.52			Peak

Detector Mode: Average   **Polarity: Horizontal**

CH Low (IEEE 802.11ac VHT80 Mode / Band 1)

Data: 187

Date: 2016-04-01 Time: 20:29:46

Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5150.00	44.53	8.76	53.29	54.00	-0.71			Average

Detector Mode: Peak   **Polarity: Vertical**

CH Low (IEEE 802.11ac VHT80 Mode / Band 1)
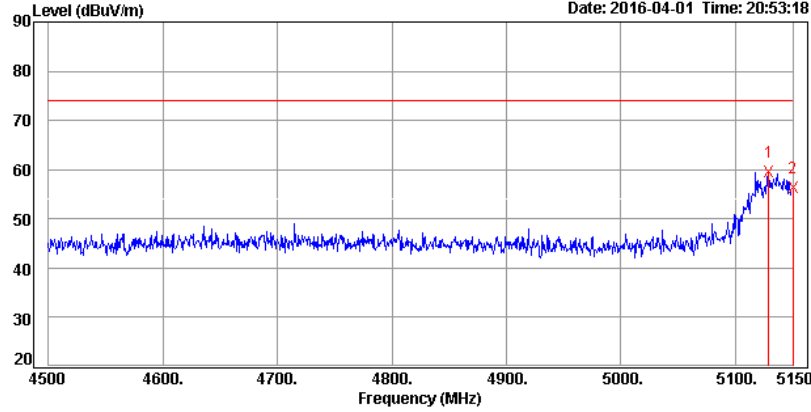

```
Trace:
    Freq.      Reading    C.F.     Result    Limit    Margin    Azimuth   Height   Remark
    MHz        dBuV       dB/m     dBuV/m    dBuV/m   dB        deg       cm
====================================================================================================

    5129.20    50.89      8.71     59.60     74.00    -14.40                        Peak
    5150.00    47.55      8.76     56.31     74.00    -17.69                        Peak
```

Detector Mode: Average   **Polarity: Vertical**

CH Low (IEEE 802.11ac VHT80 Mode / Band 1)


```
Trace:
    Freq.      Reading    C.F.     Result    Limit    Margin    Azimuth   Height   Remark
    MHz        dBuV       dB/m     dBuV/m    dBuV/m   dB        deg       cm
====================================================================================================

    5148.70    40.02      8.75     48.77     54.00    -5.23                         Average
    5150.00    39.35      8.76     48.11     54.00    -5.89                         Average
```

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7.6 CONDUCTED EMISSION

LIMITS

§ 15.207 (a) Except as shown in paragraph (b) and (c) this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Conducted Limit (dBµv)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5.00	56	46
5.00 - 30.0	60	50

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
L.I.S.N	Schwarzbeck	NSLK 8127	8127465	08/05/2016
L.I.S.N	Schwarzbeck	NSLK 8127	8127473	03/10/2017
EMI Test Receiver	Rohde & Schwarz	ESHS 30	838550/003	10/31/2016
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100111	06/28/2016
Test S/W	E3.815206a			

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP
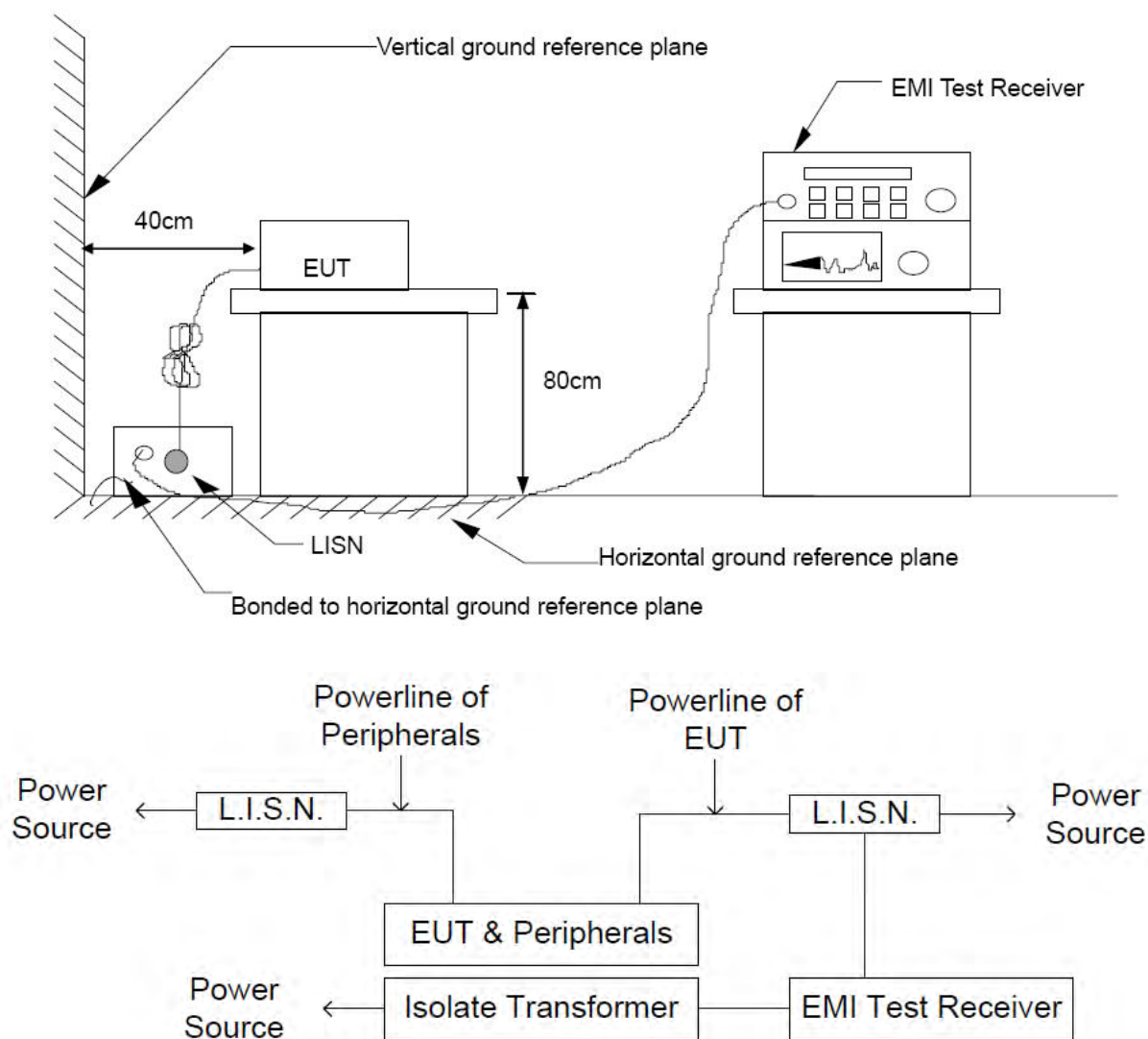
TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.10:2013.

The test procedure is performed in a 4m × 3m × 2.4m (L×W×H) shielded room.

The EUT along with its peripherals were placed on a 1.0m (W) × 1.5m (L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.

The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.

The EUT was located so that the distance between the boundary of the EUT and the closest surface of the LISN is 0.8 m. Where a mains flexible cord was provided by the manufacturer shall be 1 m long, or if in excess of 1 m, the excess cable was folded back and forth as far as possible so as to form a bundle not exceeding 0.4 m in length.

TEST RESULTS

Product Name	Moca AP cable Modem	Test By	Audi Chang
Test Model	CGNVM-3589	Test Date	2016/04/19
Test Mode	Mode 2	Temp. & Humidity	26°C, 49%

LINE
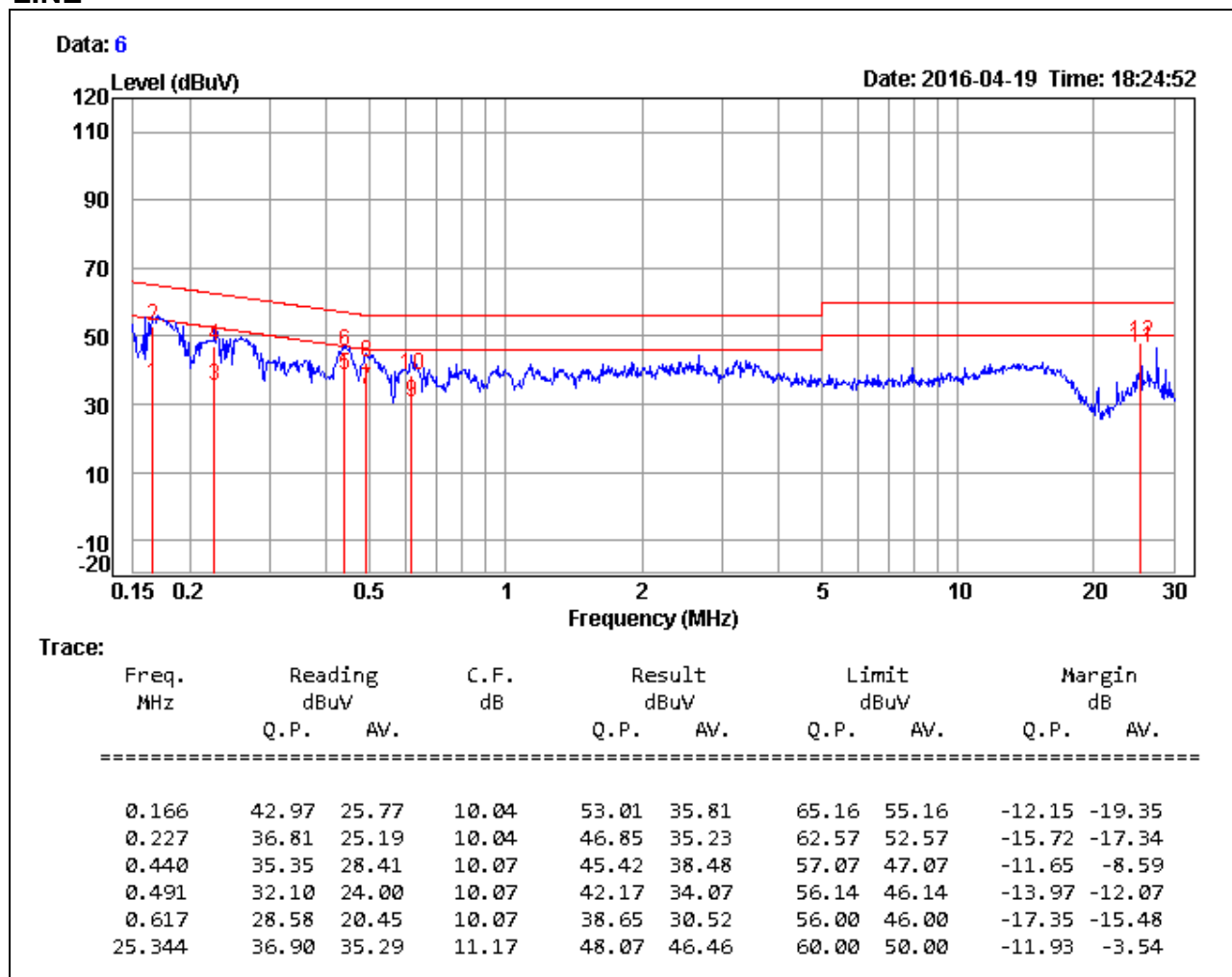

```
Data: 6
Level (dBuV)                                    Date: 2016-04-19 Time: 18:24:52
```

Trace:

Freq.	Reading		C.F.	Result		Limit		Margin	
MHz	dBuV		dB	dBuV		dBuV		dB	
	Q.P.	AV.		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.166	42.97	25.77	10.04	53.01	35.81	65.16	55.16	-12.15	-19.35
0.227	36.81	25.19	10.04	46.85	35.23	62.57	52.57	-15.72	-17.34
0.440	35.35	28.41	10.07	45.42	38.48	57.07	47.07	-11.65	-8.59
0.491	32.10	24.00	10.07	42.17	34.07	56.14	46.14	-13.97	-12.07
0.617	28.58	20.45	10.07	38.65	30.52	56.00	46.00	-17.35	-15.48
25.344	36.90	35.29	11.17	48.07	46.46	60.00	50.00	-11.93	-3.54

Remark:
1. Correction Factor = Insertion loss + Cable loss
2. Result level = Reading Value + Correction factor
3. Margin value = Result level – Limit value

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Product Name	Moca AP cable Modem	Test By	Audi Chang
Test Model	CGNVM-3589	Test Date	2016/04/19
Test Mode	Mode 2	Temp. & Humidity	26°C, 49%

NEUTRAL
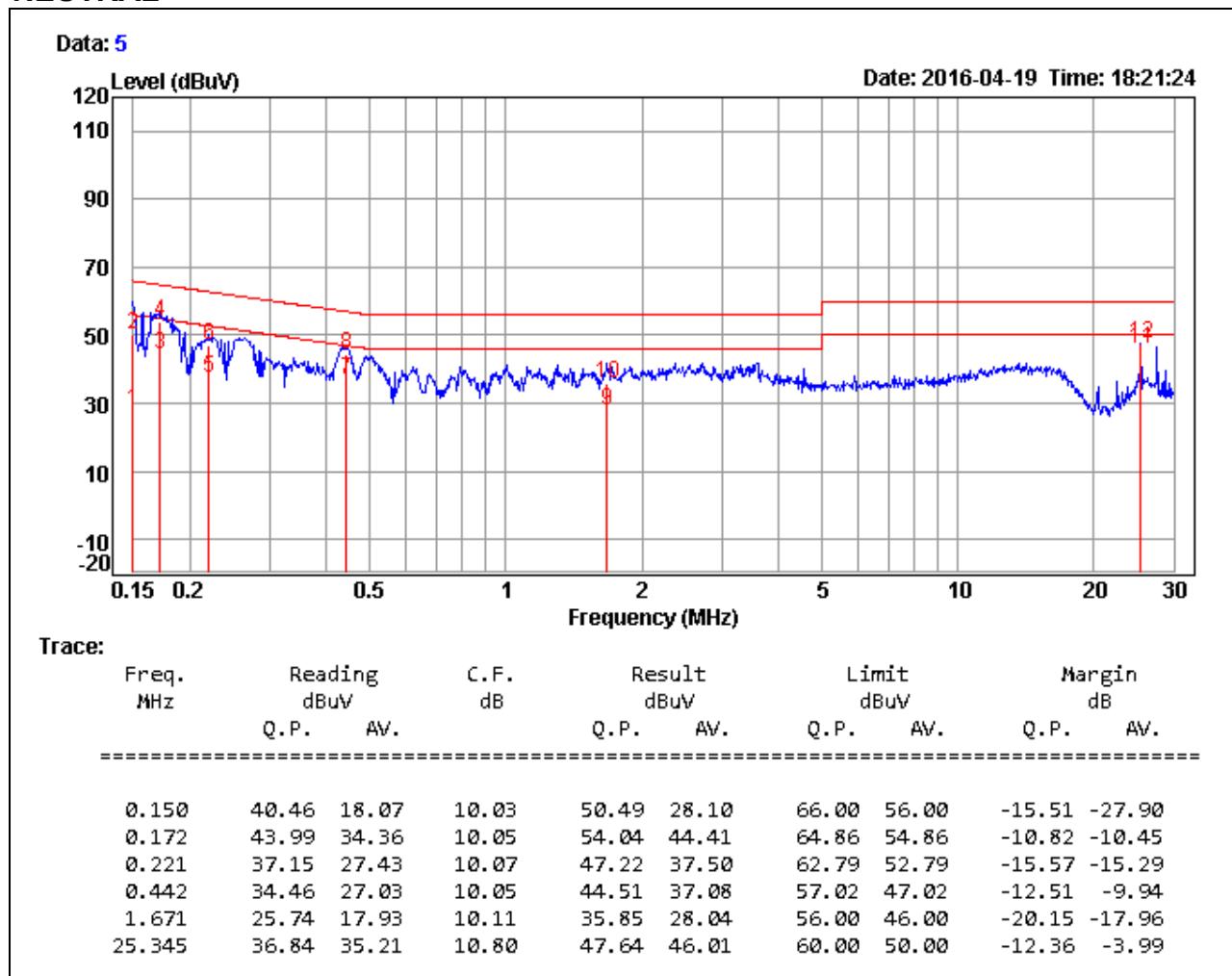
Trace:

Freq. MHz	Reading dBuV Q.P.	AV.	C.F. dB	Result dBuV Q.P.	AV.	Limit dBuV Q.P.	AV.	Margin dB Q.P.	AV.
0.150	40.46	18.07	10.03	50.49	28.10	66.00	56.00	-15.51	-27.90
0.172	43.99	34.36	10.05	54.04	44.41	64.86	54.86	-10.82	-10.45
0.221	37.15	27.43	10.07	47.22	37.50	62.79	52.79	-15.57	-15.29
0.442	34.46	27.03	10.05	44.51	37.08	57.02	47.02	-12.51	-9.94
1.671	25.74	17.93	10.11	35.85	28.04	56.00	46.00	-20.15	-17.96
25.345	36.84	35.21	10.80	47.64	46.01	60.00	50.00	-12.36	-3.99

Remark:
1. Correction Factor = Insertion loss + Cable loss
2. Result level = Reading Value + Correction factor
3. Margin value = Result level – Limit value

7.7 FREQUENCY STABILITY

LIMITS

§ 15.407 (g) manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EXA Signal Analyzer	Agilent	N9010A	MY52220817	03/15/2017
Test S/W	N/A			

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP

TEST PROCEDURE

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the environment into appropriate environment.
4. Set the spectrum analyzer as RBW=1kHz, VBW = RBW, Span = 200kHz, Sweep = auto.
5. Mark the peak frequency and measure the frequency tolerance using frequency counter function.
6. Repeat until all the results are investigated.

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TEST RESULTS

Product Name	Moca AP cable Modem	Test By	Davis Tseng
Test Model	CGNVM-3589	Test Date	2016/04/12
Test Mode	TX Mode	Temp. & Humidity	25°C, 53%

IEEE 802.11a Mode

U-NII Band	Channel	Channel Frequency (MHz)	Measured Frequency (MHz)	Delta Frequency (kHz)	20 ppm Limit (kHz)	Margin (kHz)
Band 1	Low	5180	5179.983830	-16.17	103.60	-87.43
	Middle	5200	5199.982405	-17.60	104.00	-86.40
	High	5240	5239.983782	-16.22	104.80	-88.58
Band 3	Low	5745	5744.982984	-17.02	114.90	-97.88
	Middle	5785	5784.979262	-20.74	115.70	-94.96
	High	5825	5824.979105	-20.89	116.50	-95.61

IEEE 802.11ac VHT20 Mode

U-NII Band	Channel	Channel Frequency (MHz)	Measured Frequency (MHz)	Delta Frequency (kHz)	20 ppm Limit (kHz)	Margin (kHz)
Band 1	Low	5180	5179.980265	-19.73	103.60	-83.87
	Middle	5200	5199.980425	-19.58	104.00	-84.42
	High	5240	5239.980633	-19.37	104.80	-85.43
Band 3	Low	5745	5744.979149	-20.85	114.90	-94.05
	Middle	5785	5784.979335	-20.67	115.70	-95.03
	High	5825	5824.979114	-20.89	116.50	-95.61

IEEE 802.11ac VHT40 Mode

U-NII Band	Channel	Channel Frequency (MHz)	Measured Frequency (MHz)	Delta Frequency (kHz)	20 ppm Limit (kHz)	Margin (kHz)
Band 1	Low	5190	5189.980185	-19.81	103.80	-83.99
	High	5230	5229.980065	-19.94	104.60	-84.66
Band 3	Low	5755	5754.978077	-21.92	115.10	-93.18
	High	5795	5794.978055	-21.95	115.90	-93.95

IEEE 802.11ac VHT80 Mode

U-NII Band	Channel	Channel Frequency (MHz)	Measured Frequency (MHz)	Delta Frequency (kHz)	20 ppm Limit (kHz)	Margin (kHz)
Band 1	Low	5210	5209.978075	-21.93	104.20	-82.27
Band 3	Low	5775	5774.978047	-21.95	115.50	-93.55