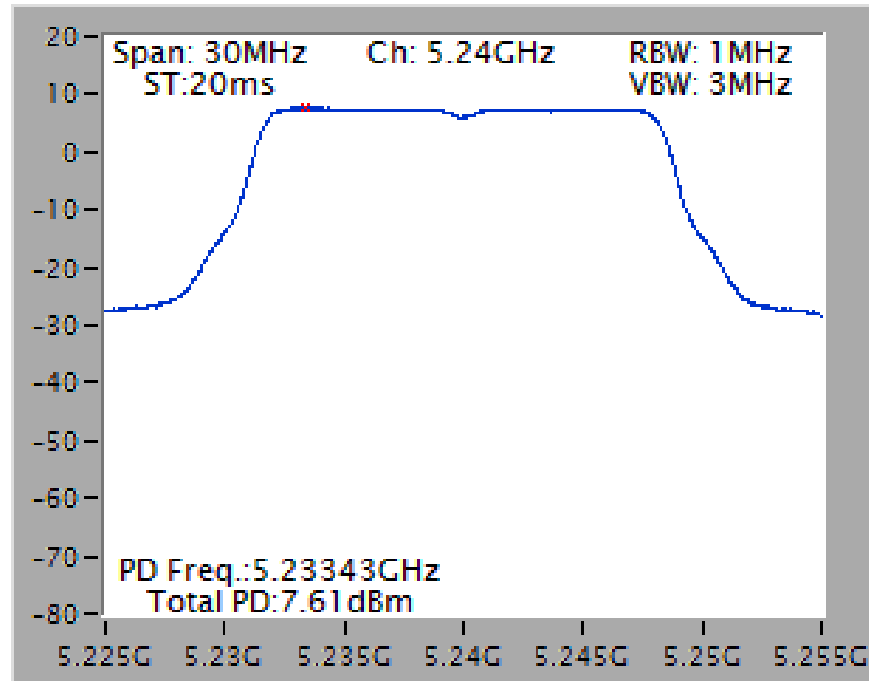


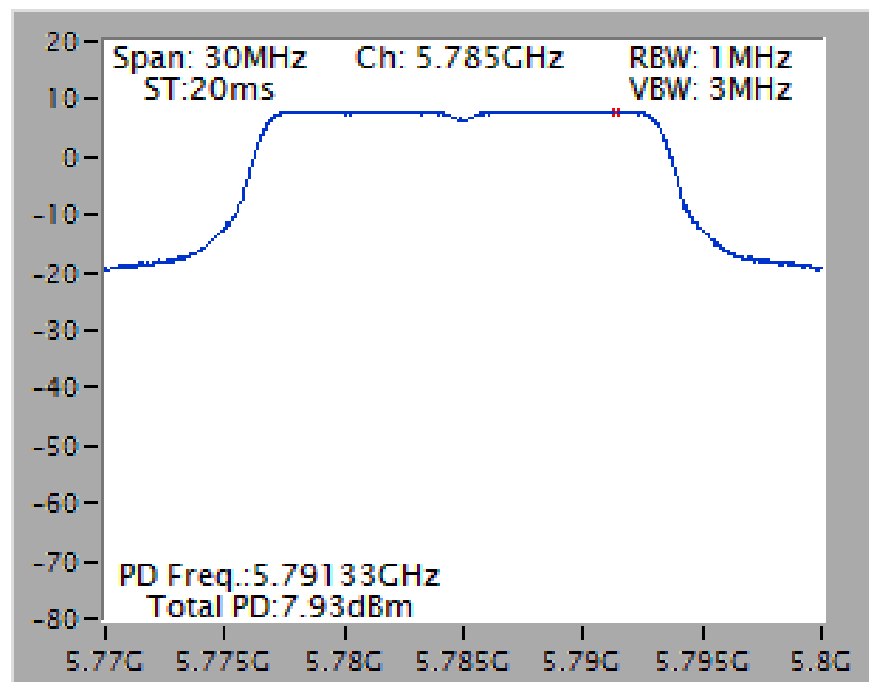
For indoor / outdoor use

Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi / 1TX)

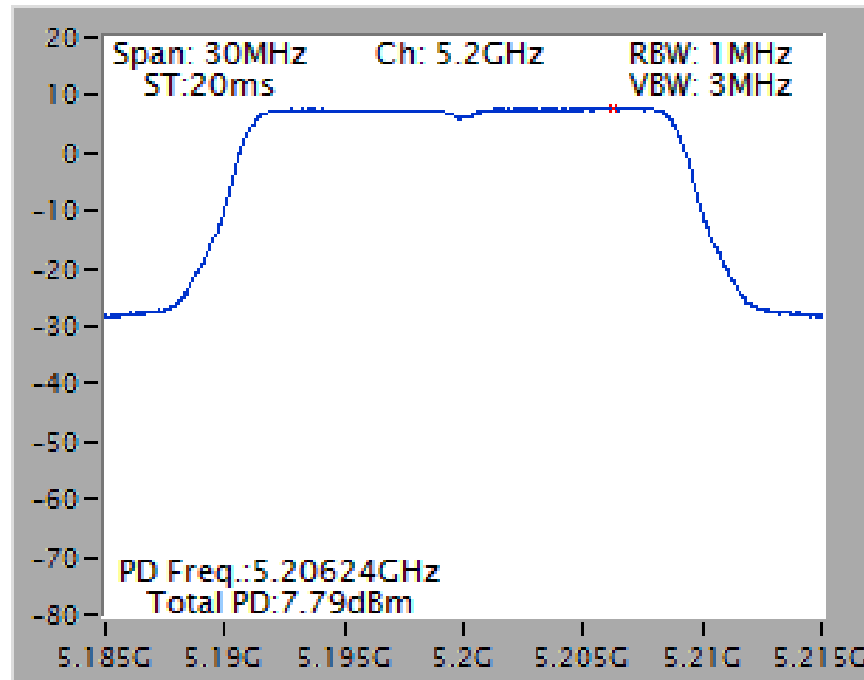
Power Density Plot on Configuration IEEE 802.11a / Chain 1 / 5240 MHz



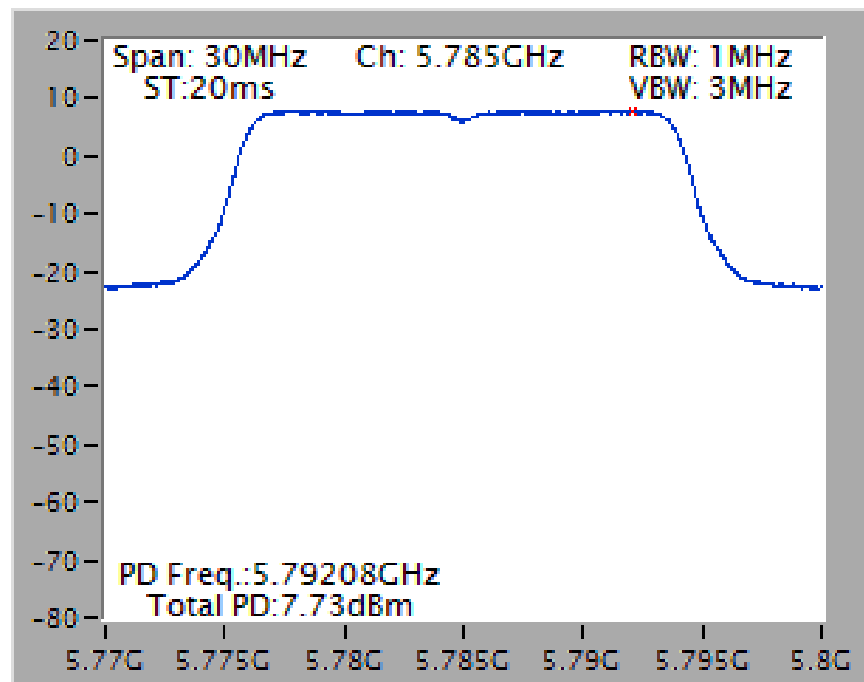
Power Density Plot on Configuration IEEE 802.11a / Chain 1 / 5785 MHz



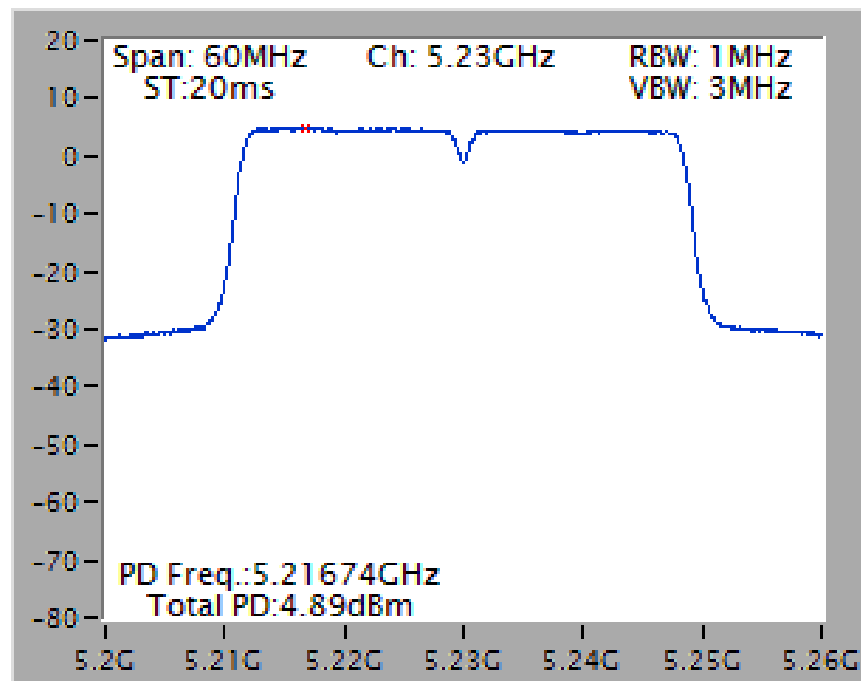
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5200 MHz



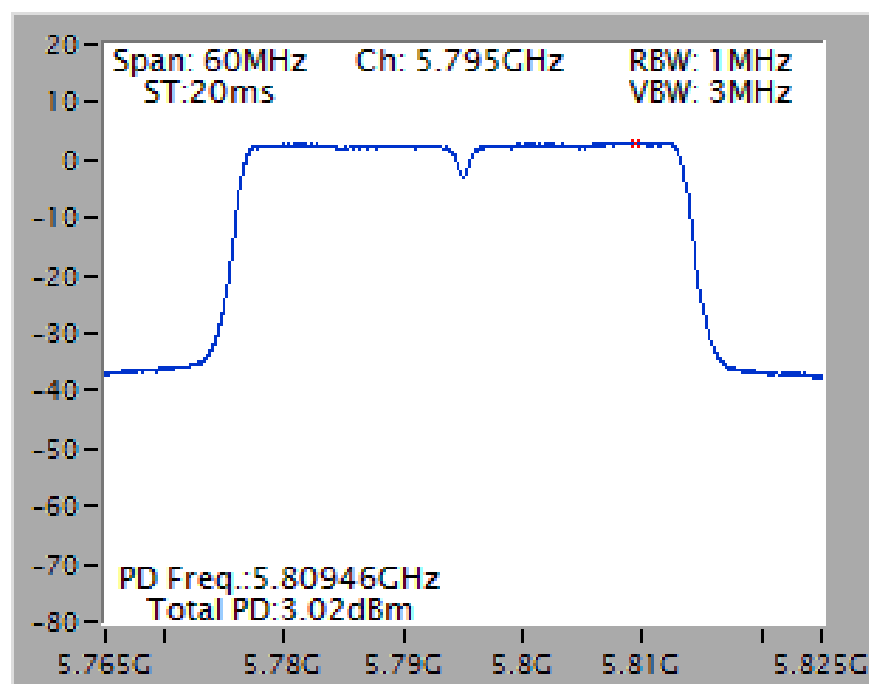
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5785 MHz



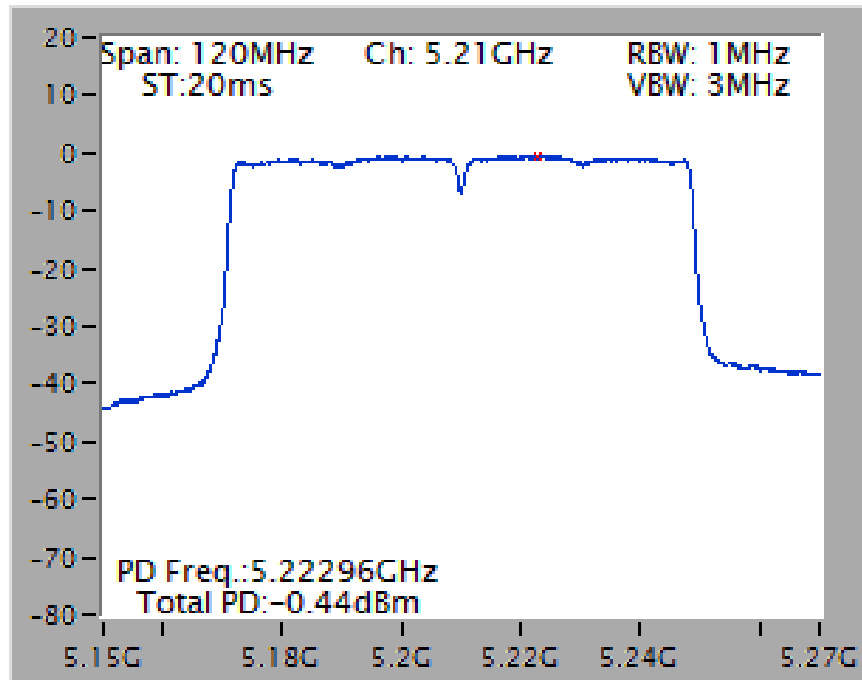
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5230 MHz



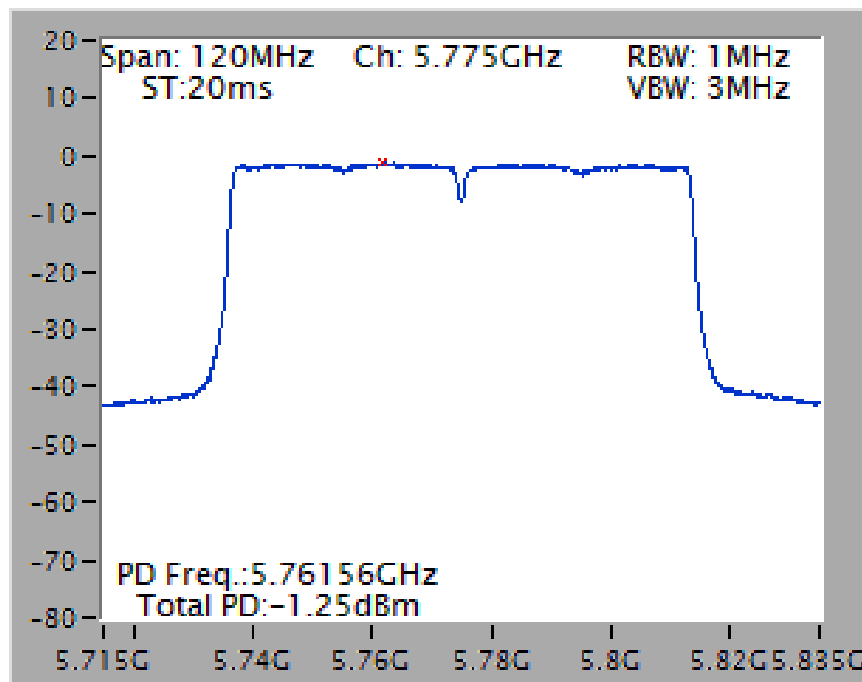
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5210 MHz

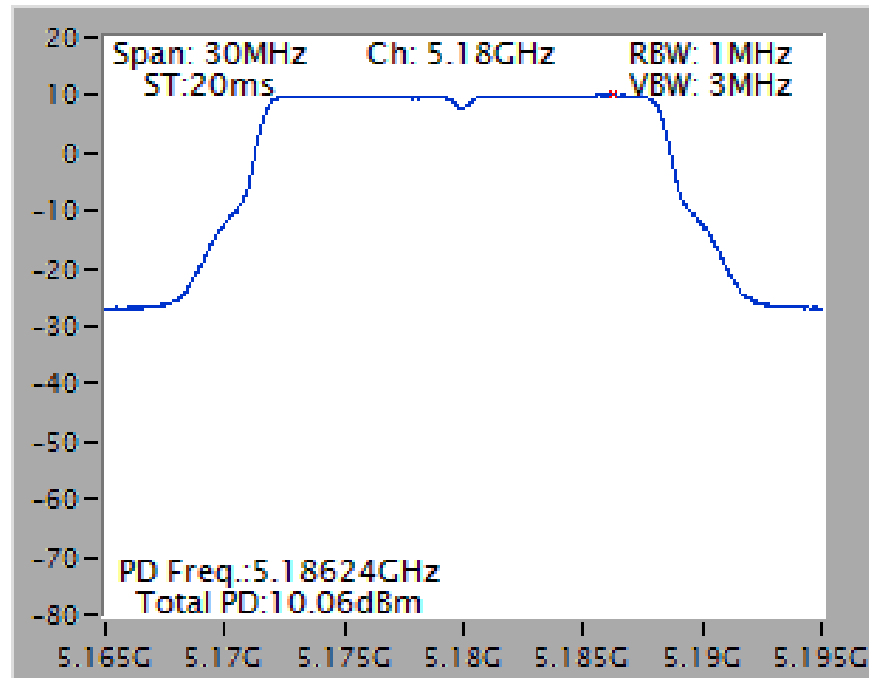


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5775 MHz

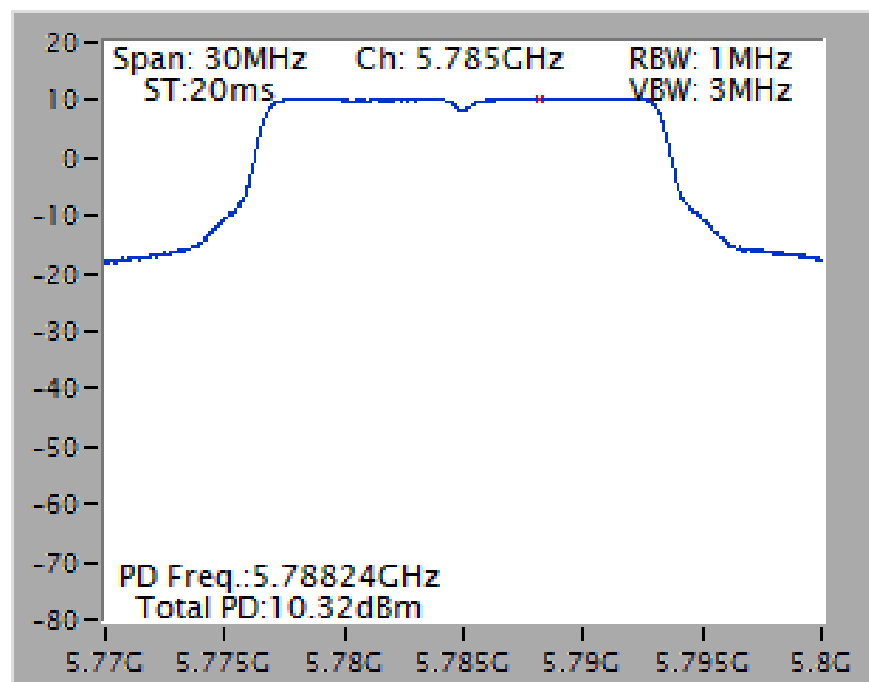


Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi / 2TX)

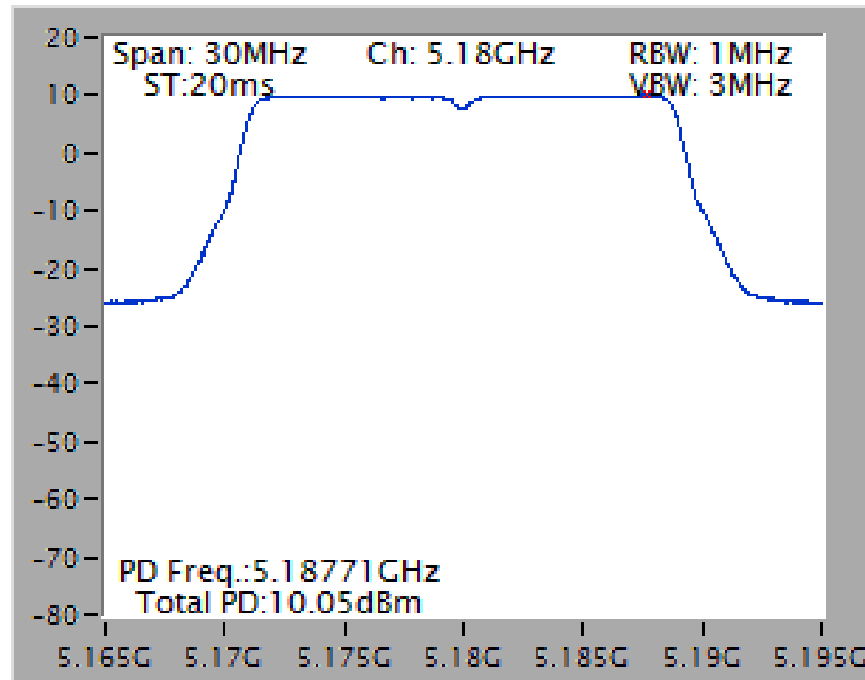
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 / 5180 MHz



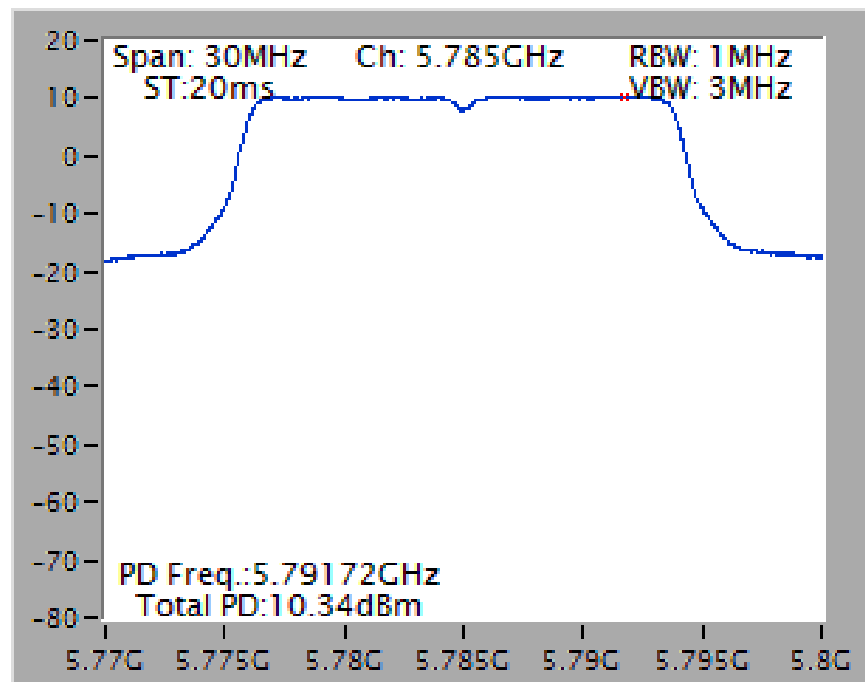
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 / 5785 MHz



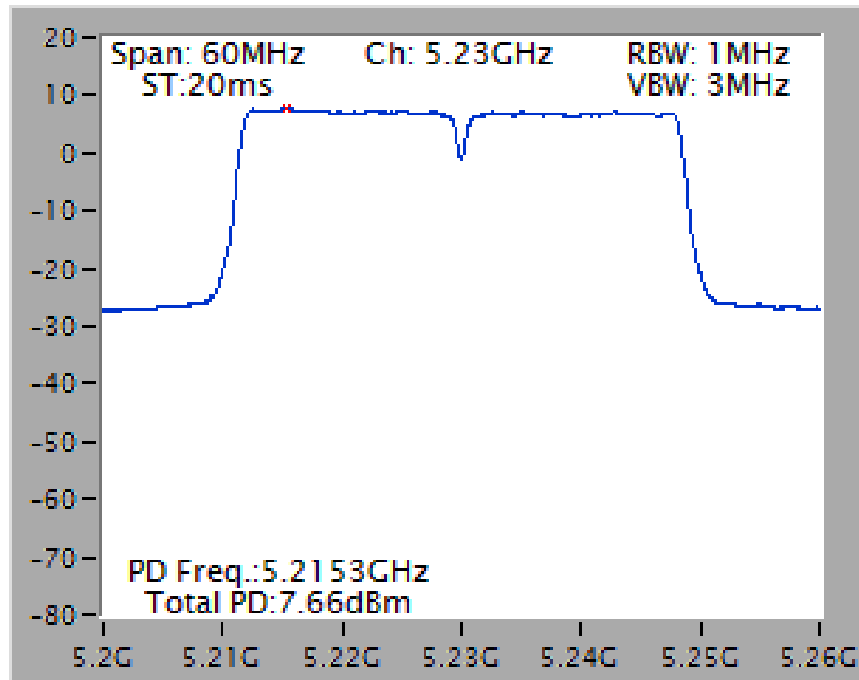
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5180 MHz



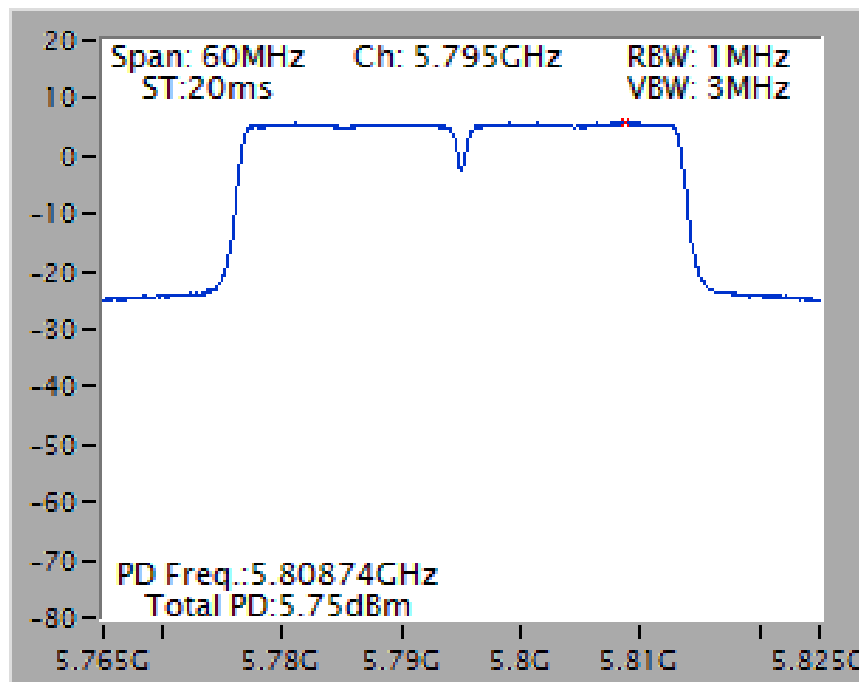
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5785 MHz



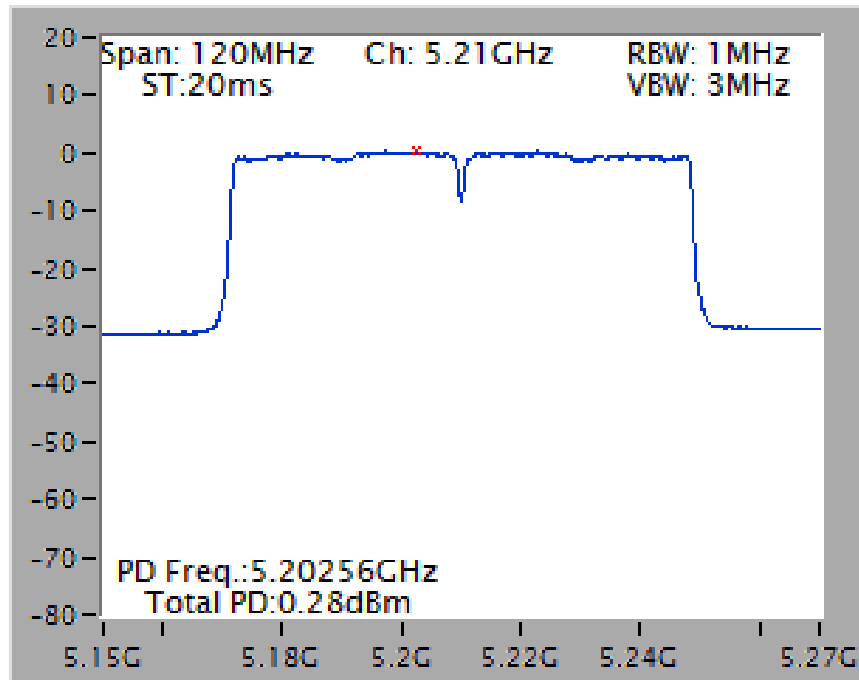
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5230 MHz



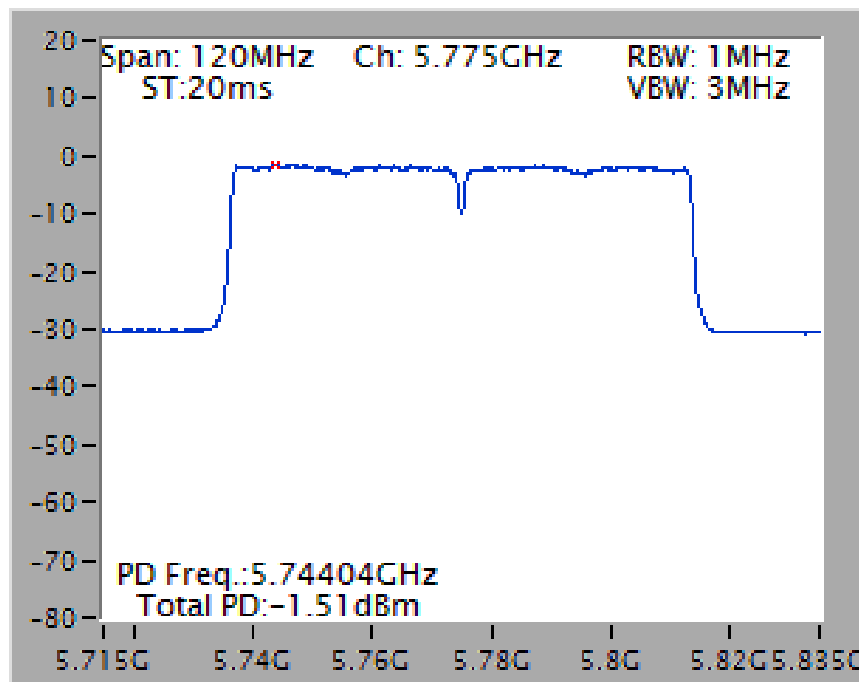
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz

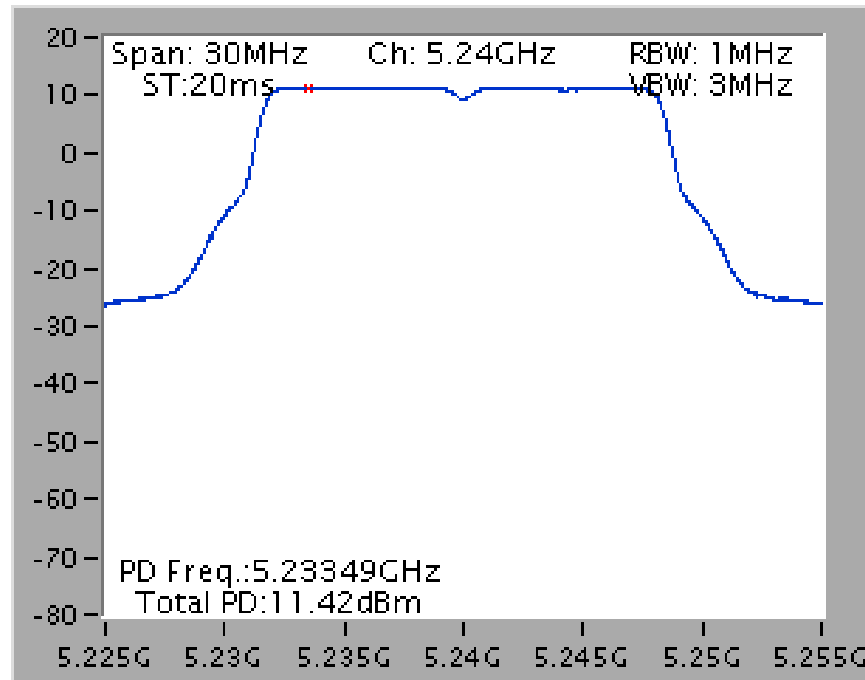


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5775 MHz

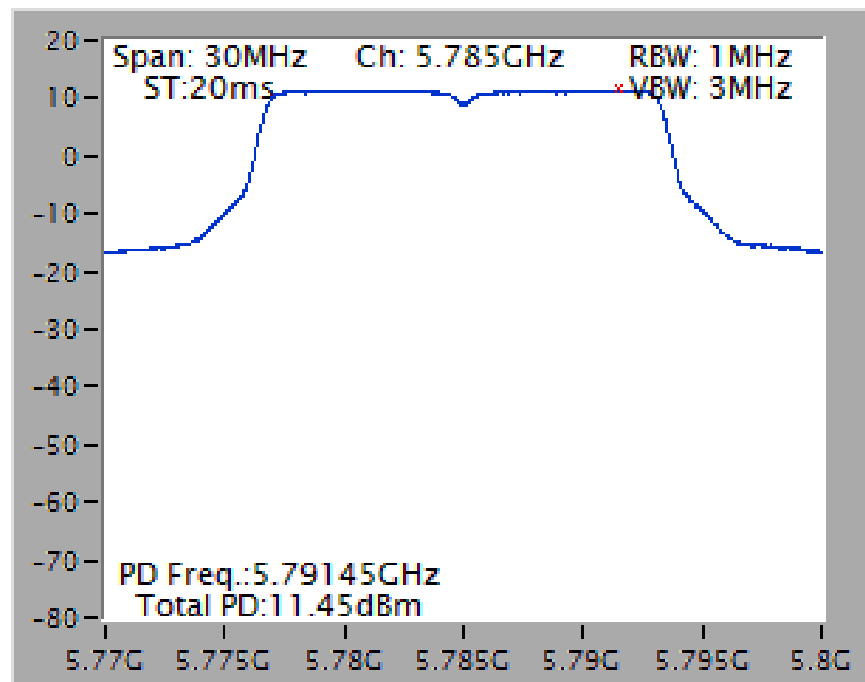


Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi, Chain 3: 6.6dBi / 3TX)

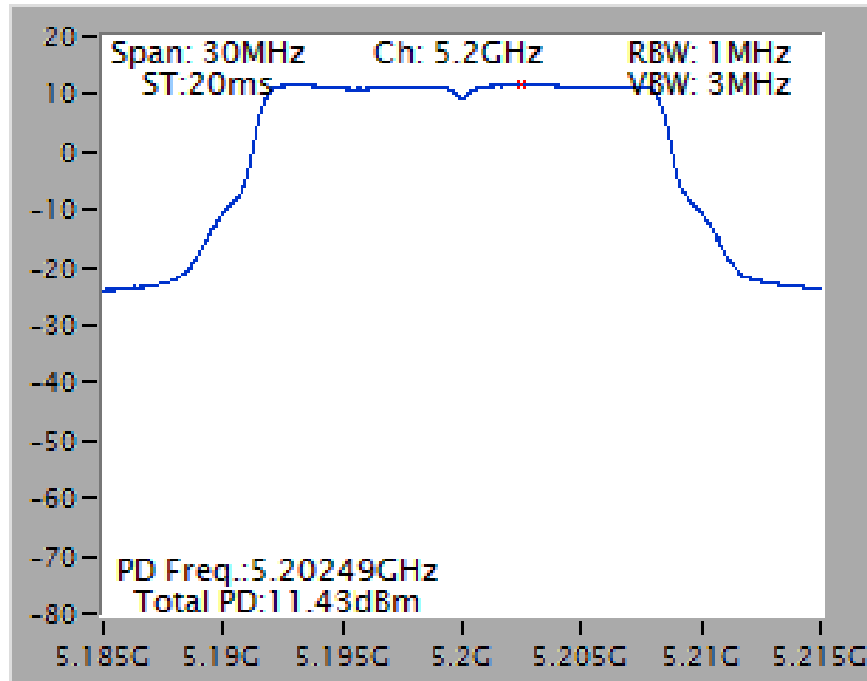
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 / 5240 MHz



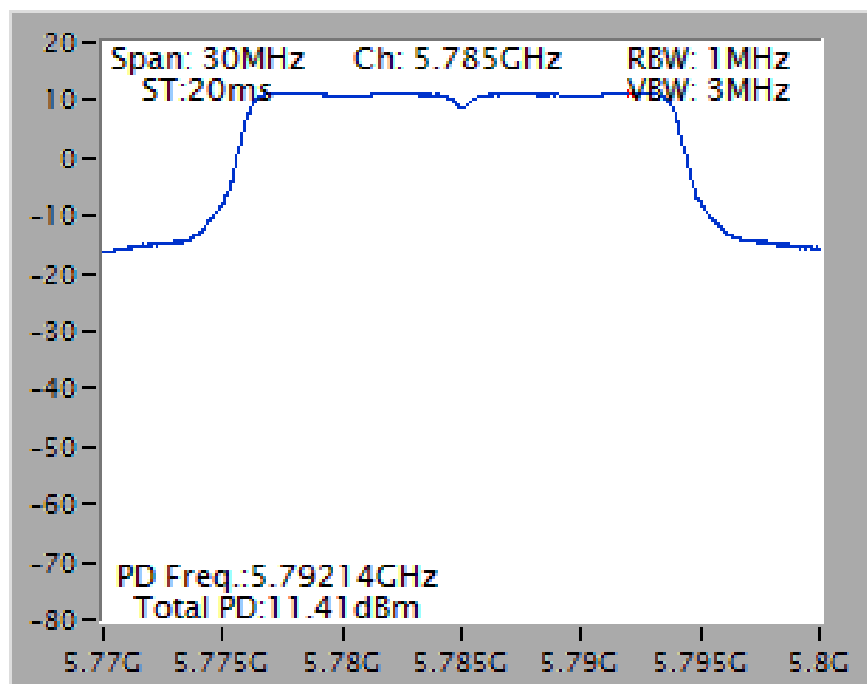
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 / 5785 MHz



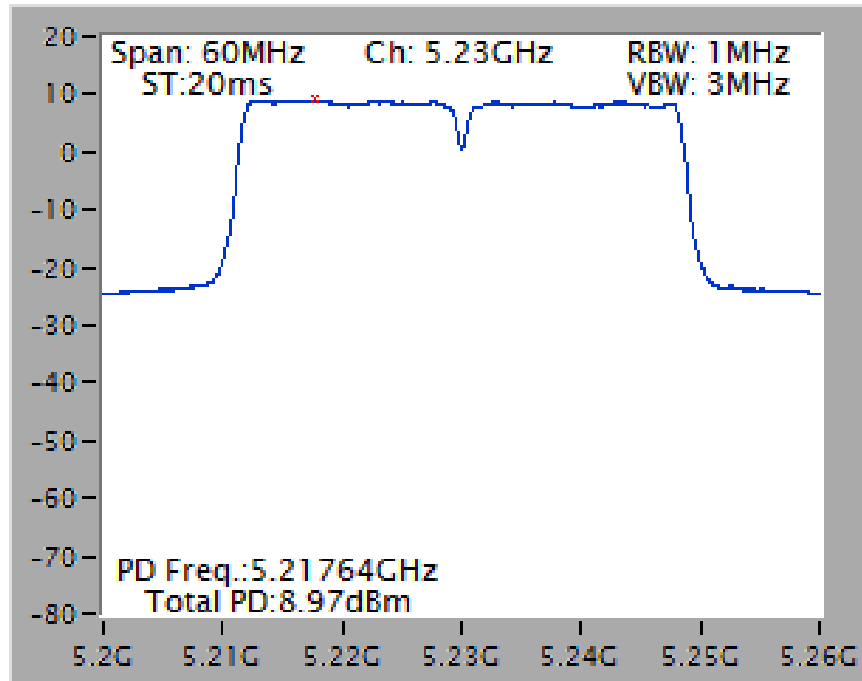
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /
5200 MHz



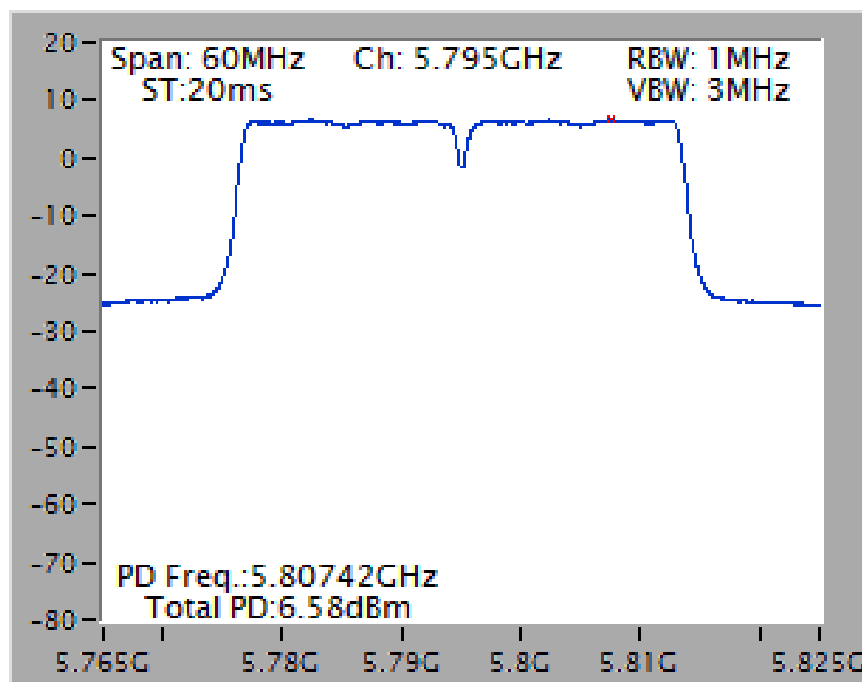
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /
5785 MHz



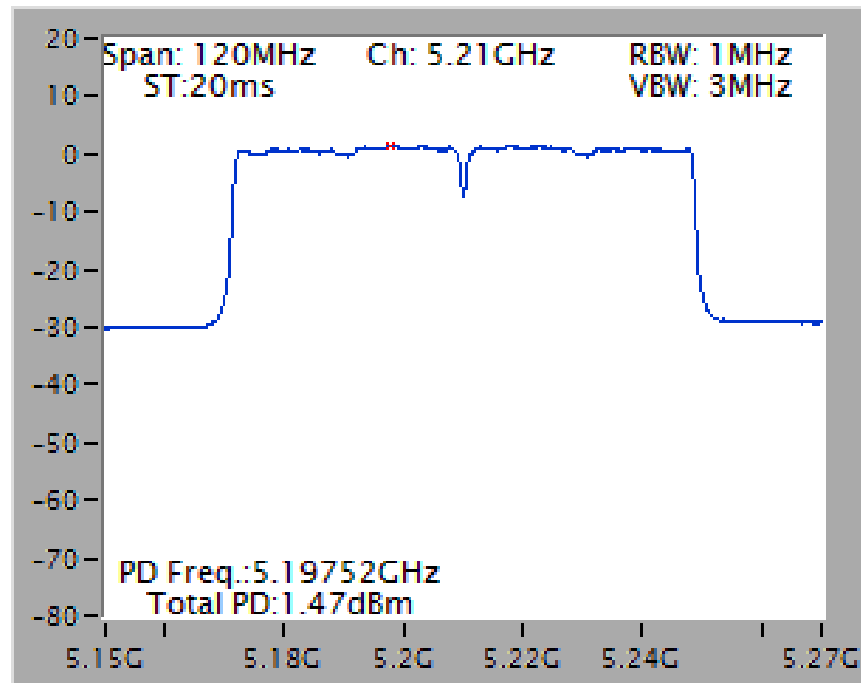
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5230 MHz



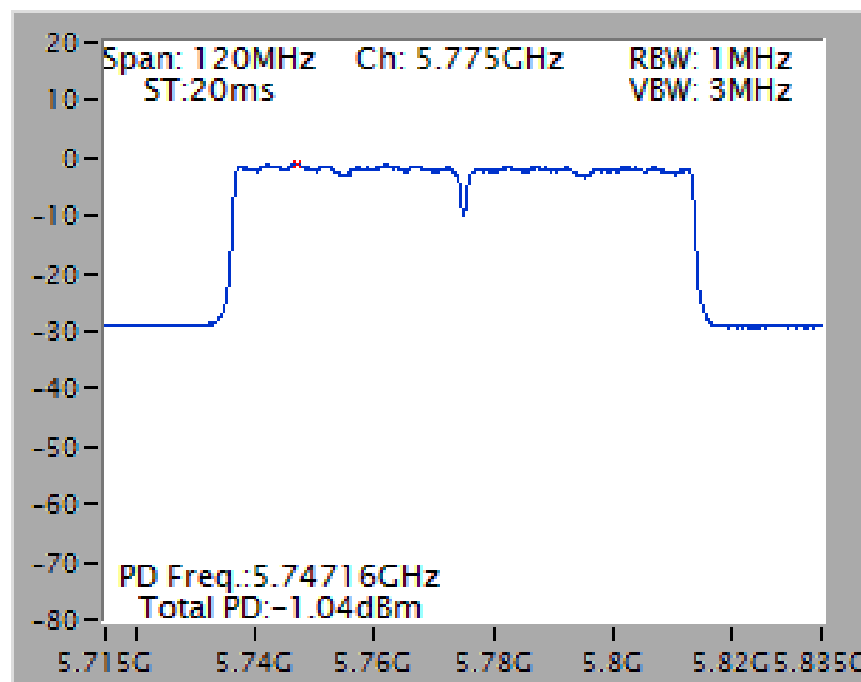
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5210 MHz

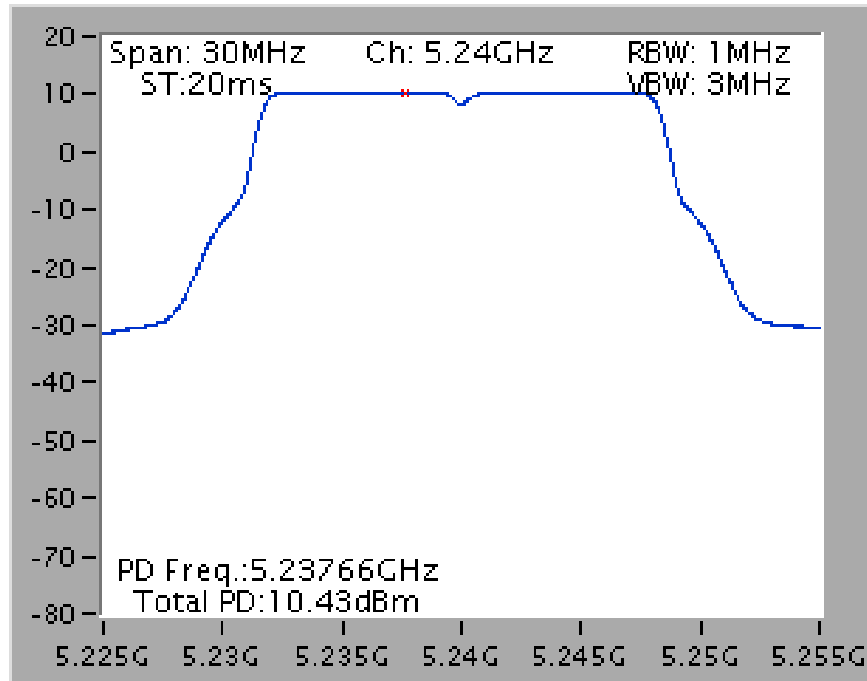


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5775 MHz

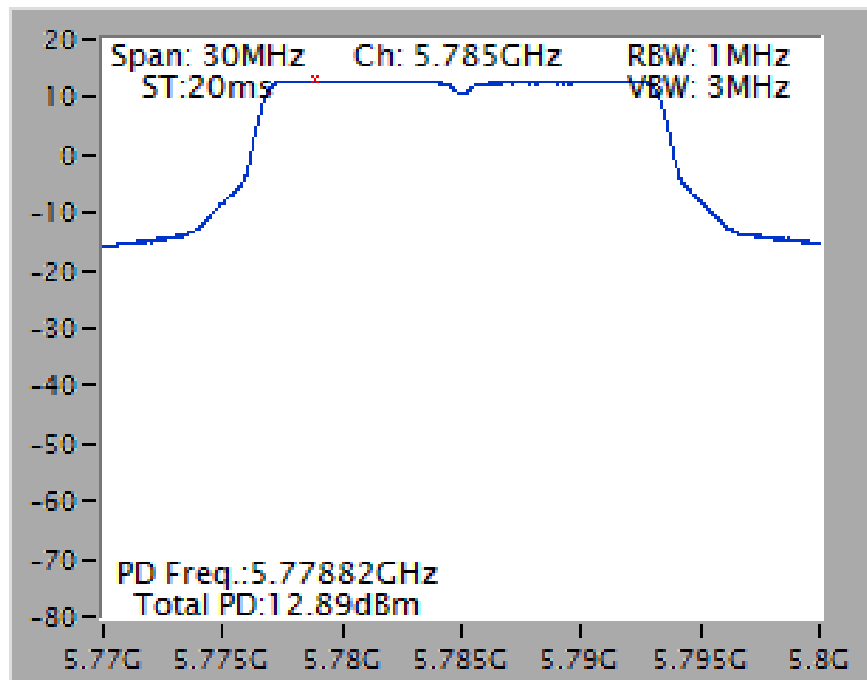


Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi, Chain 3: 6.6dBi, Chain 4: 5.9dBi / 4TX)

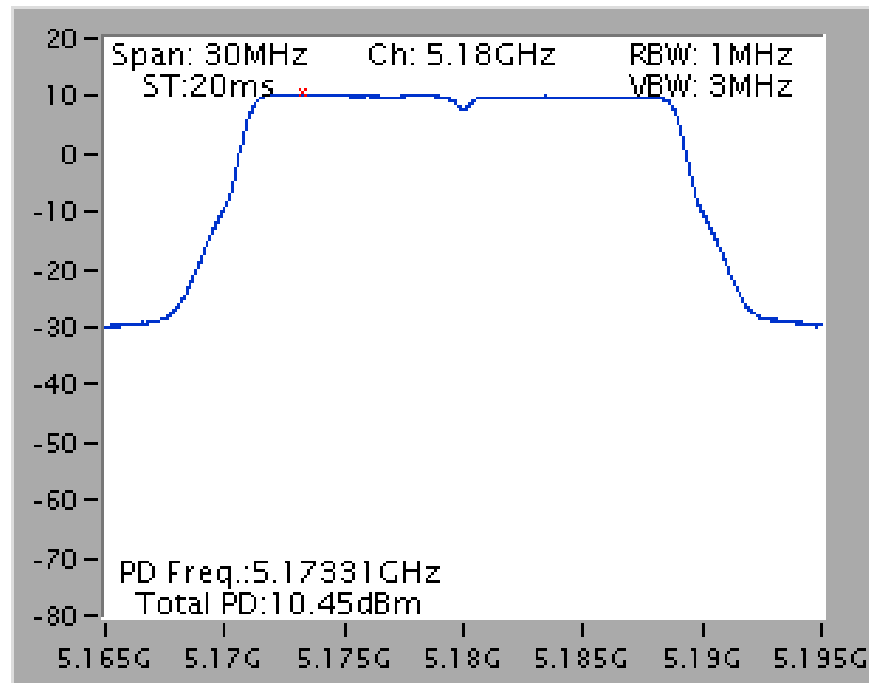
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5240 MHz



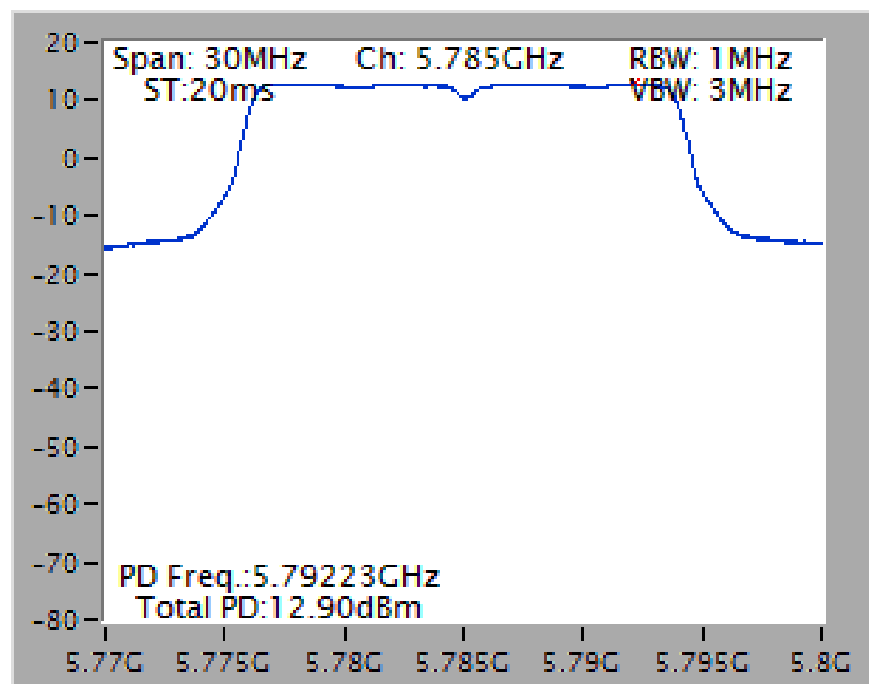
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



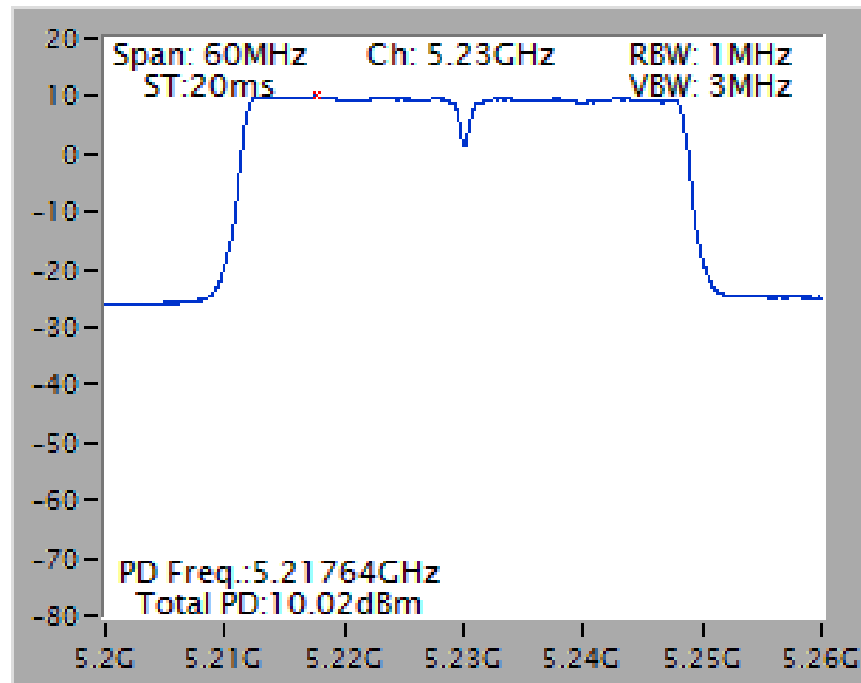
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5180 MHz



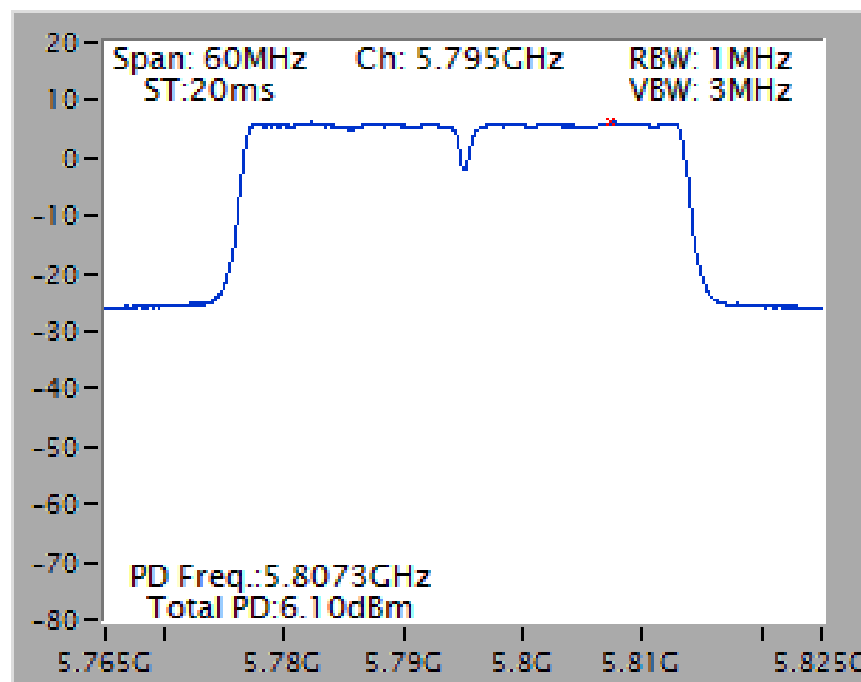
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



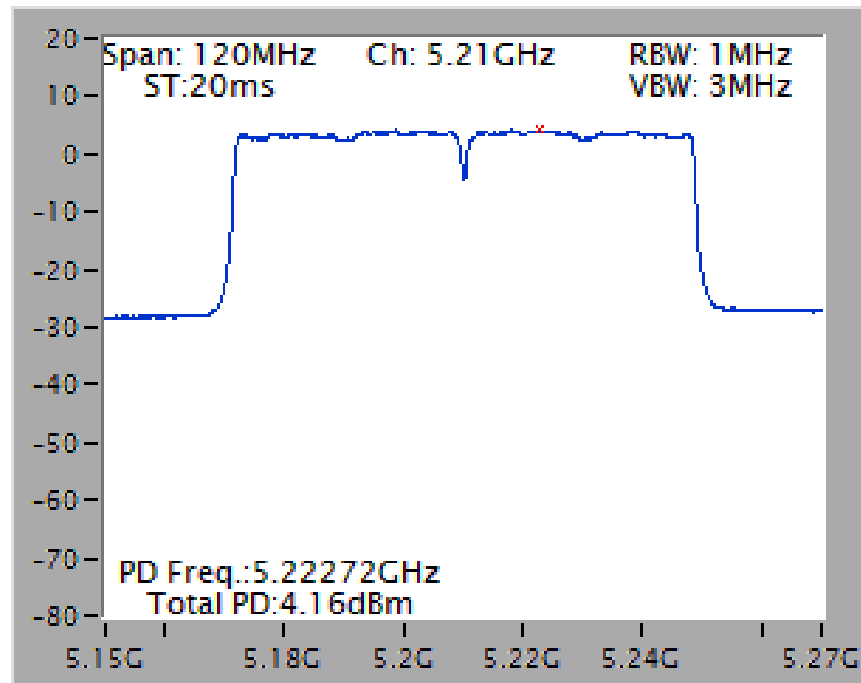
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5230 MHz



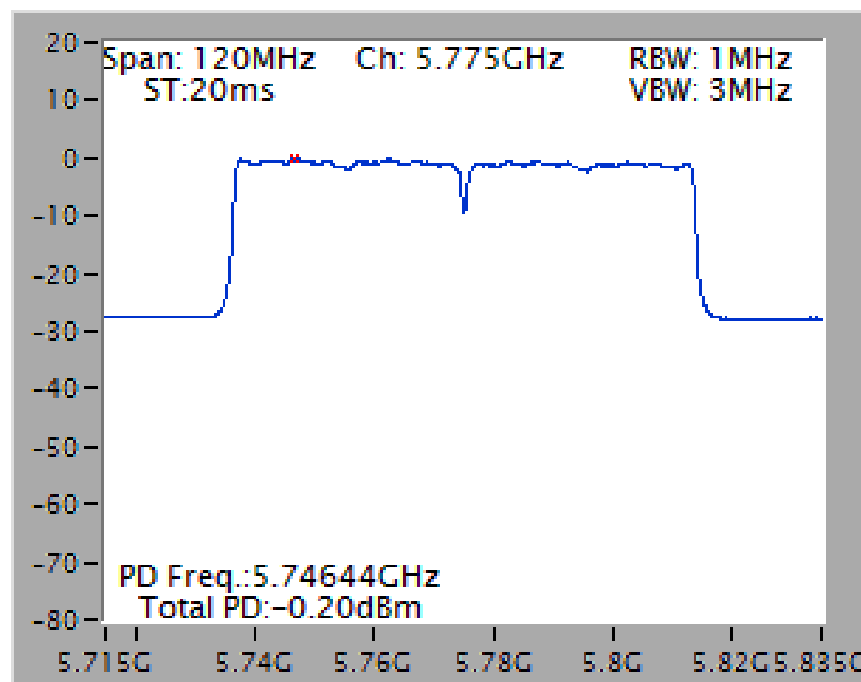
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5210 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz

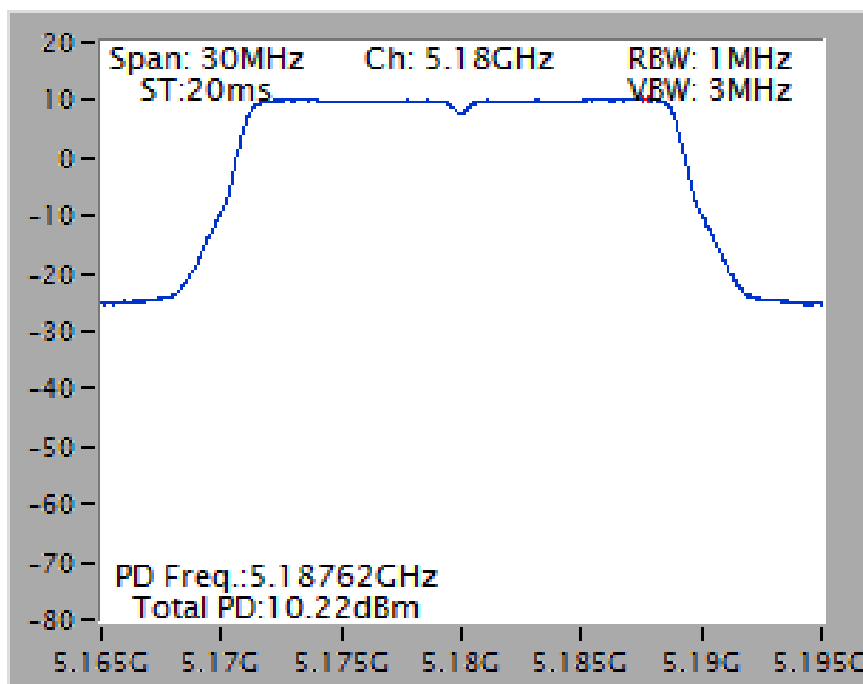


For Beamforming Mode

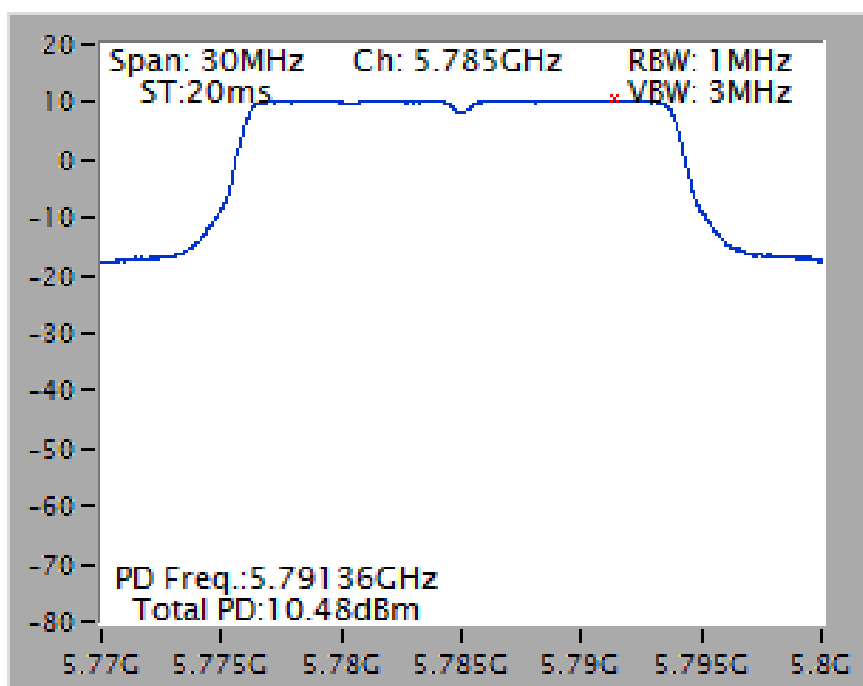
For indoor / outdoor use

Mode 1 (Set 1 Dipole antenna / 3.96dBi / 2TX)

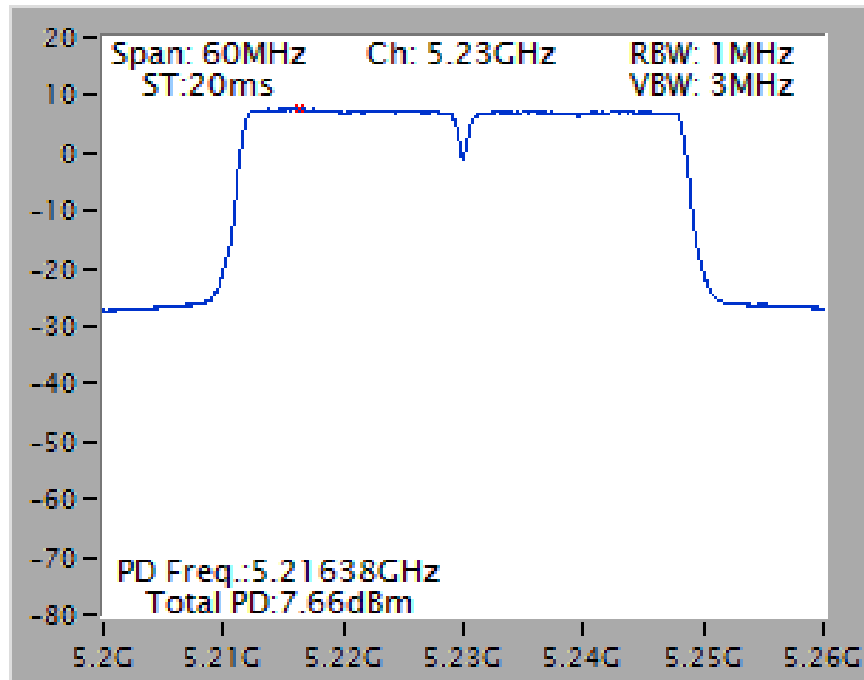
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5180 MHz



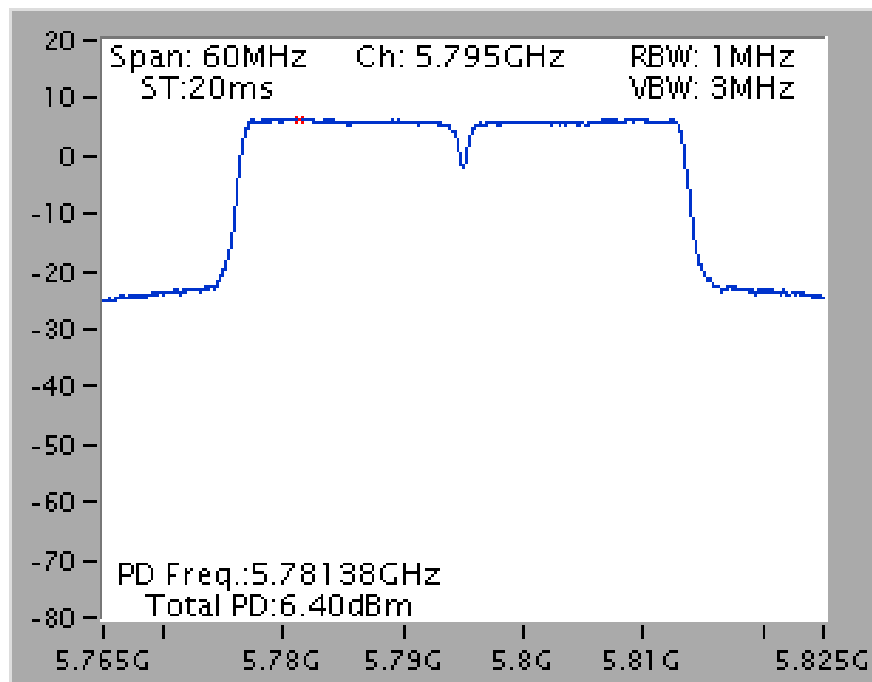
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5785 MHz



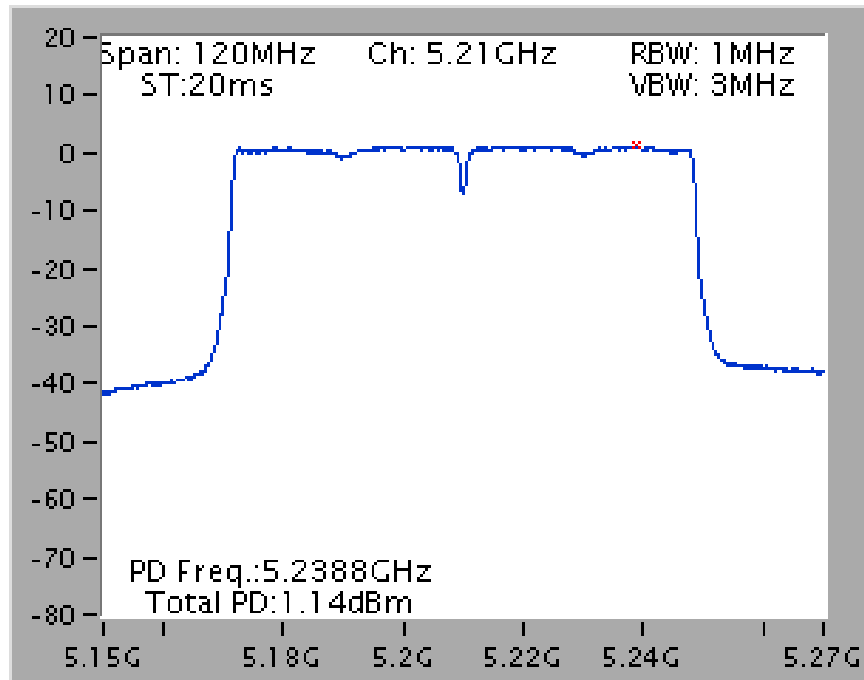
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5230 MHz



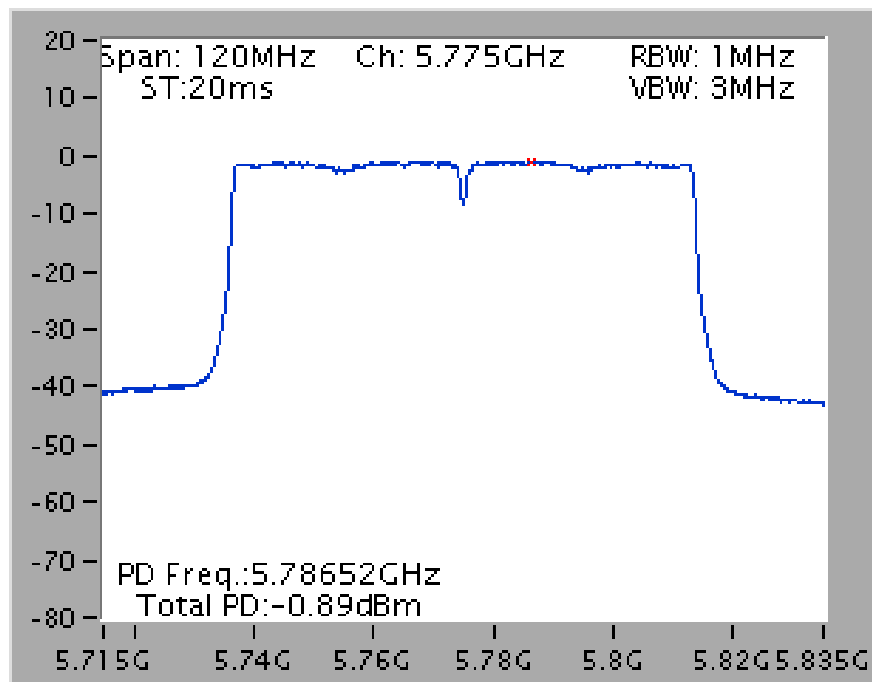
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz

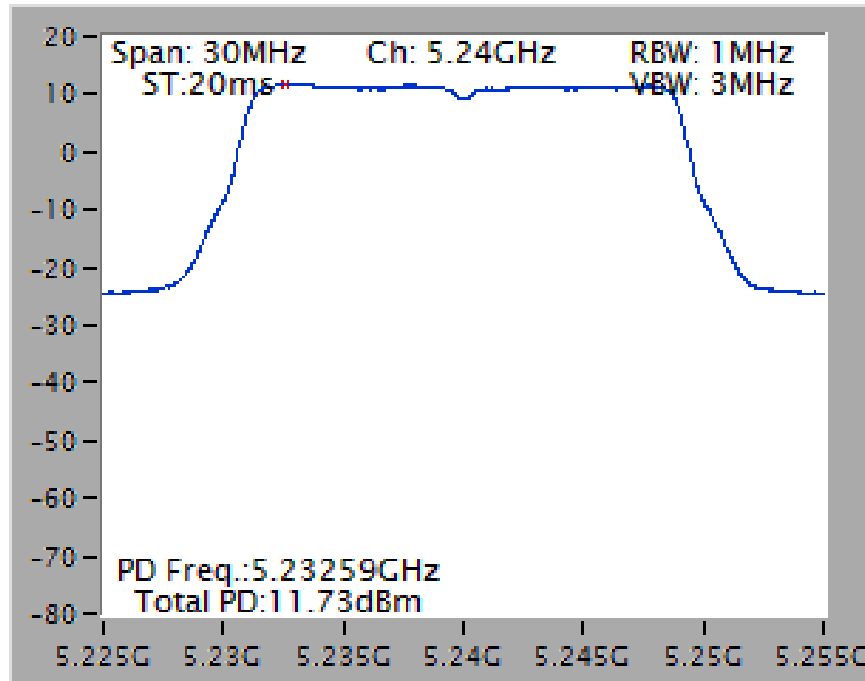


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5775 MHz

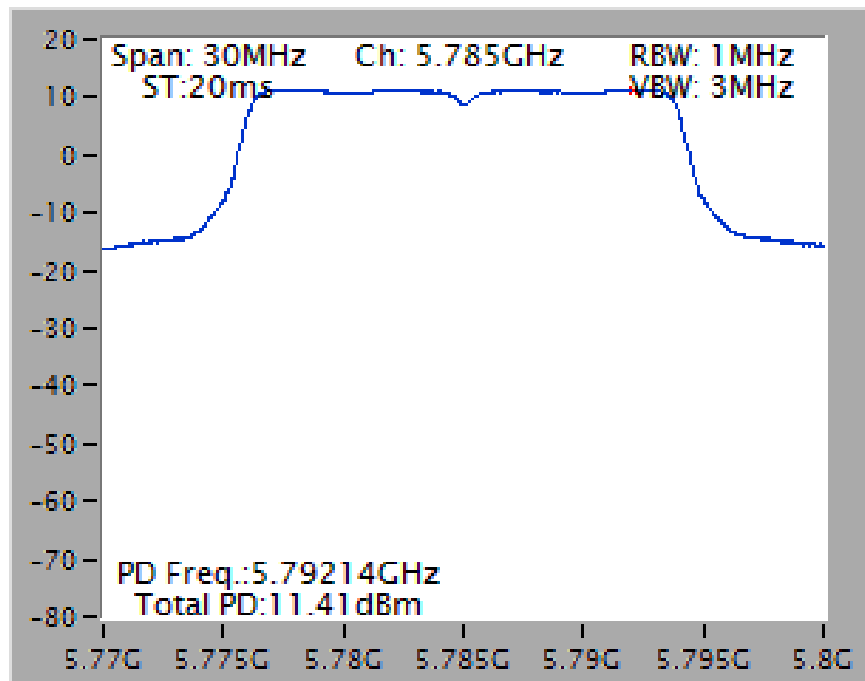


Mode 1 (Set 1 Dipole antenna / 3.96dBi / 3TX)

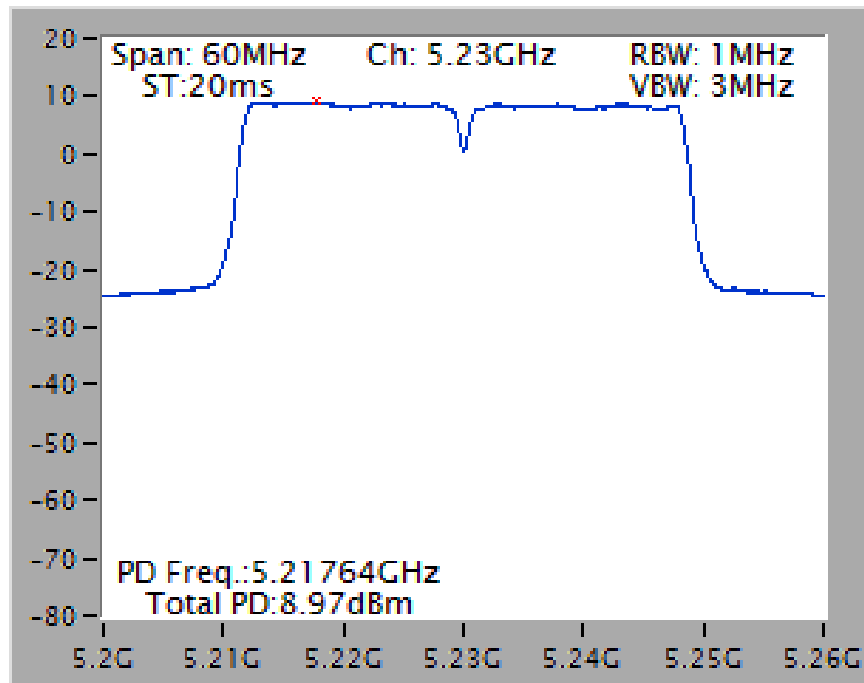
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /
5240 MHz



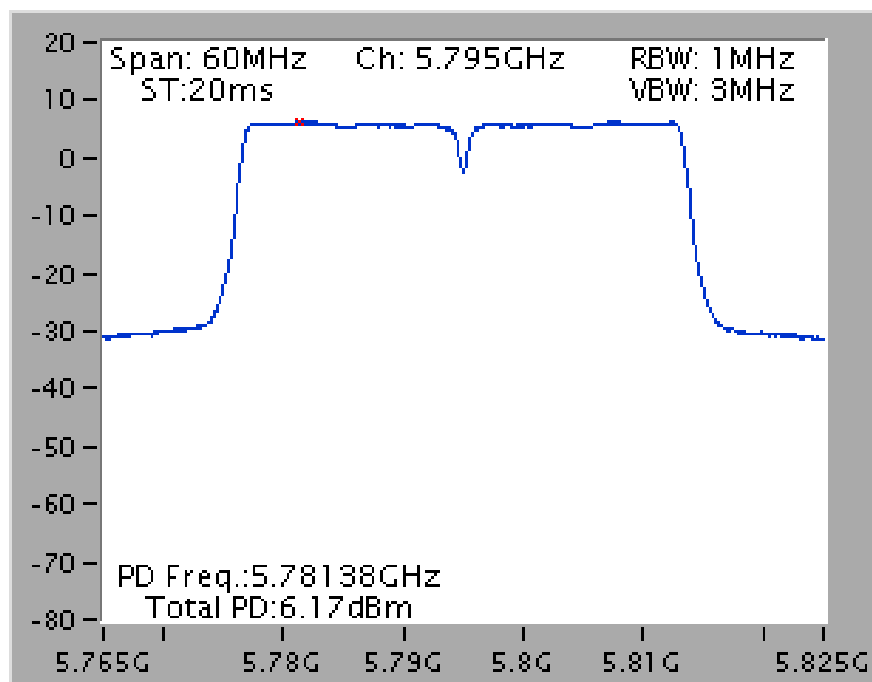
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /
5785 MHz



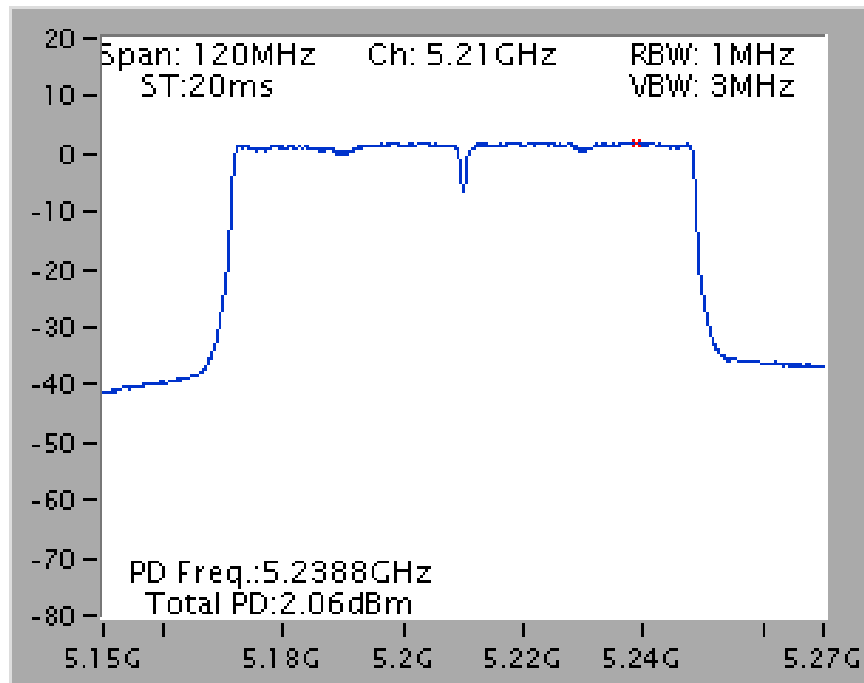
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5230 MHz



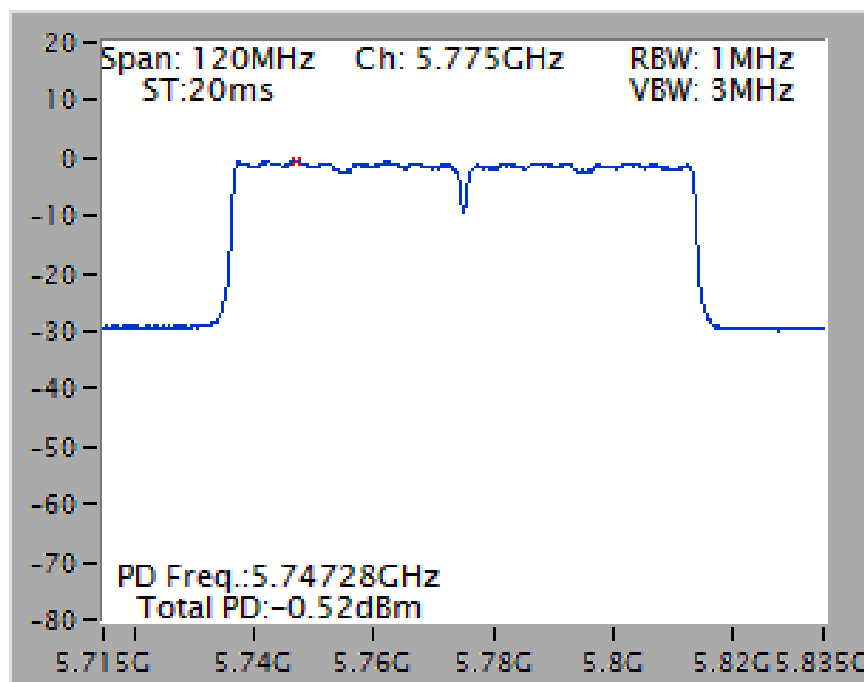
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5210 MHz

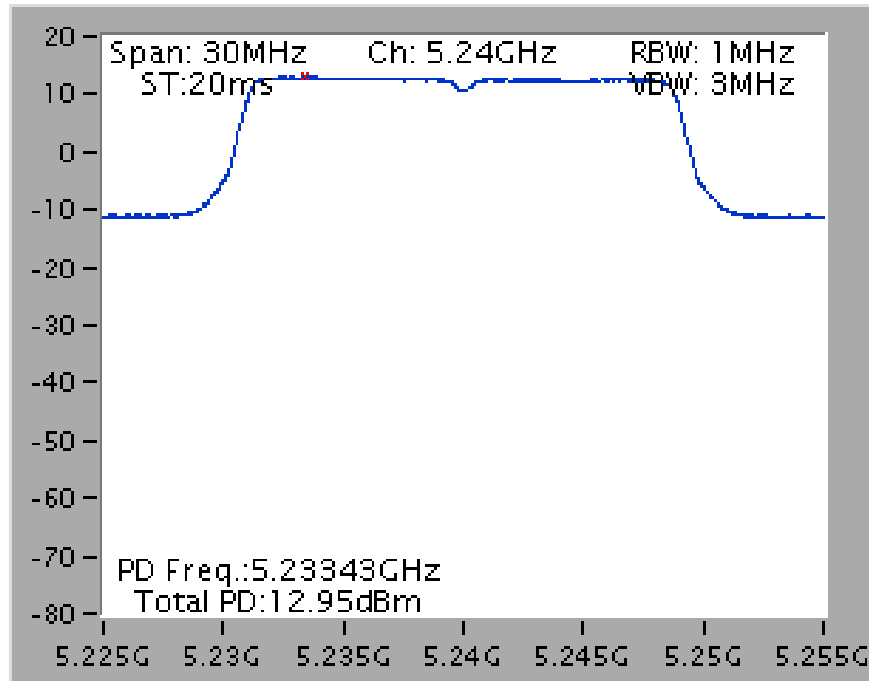


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5775 MHz

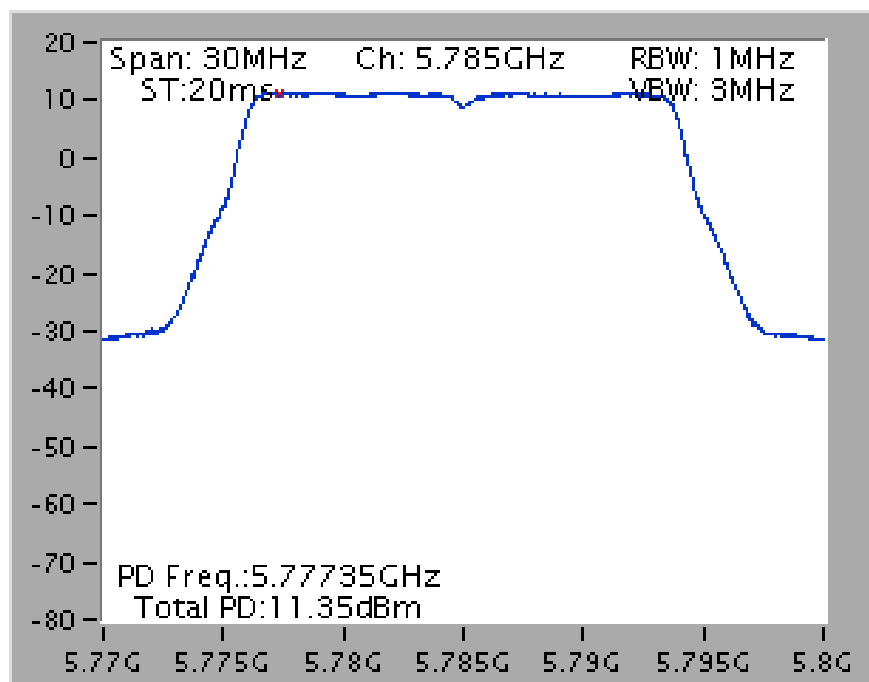


Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)

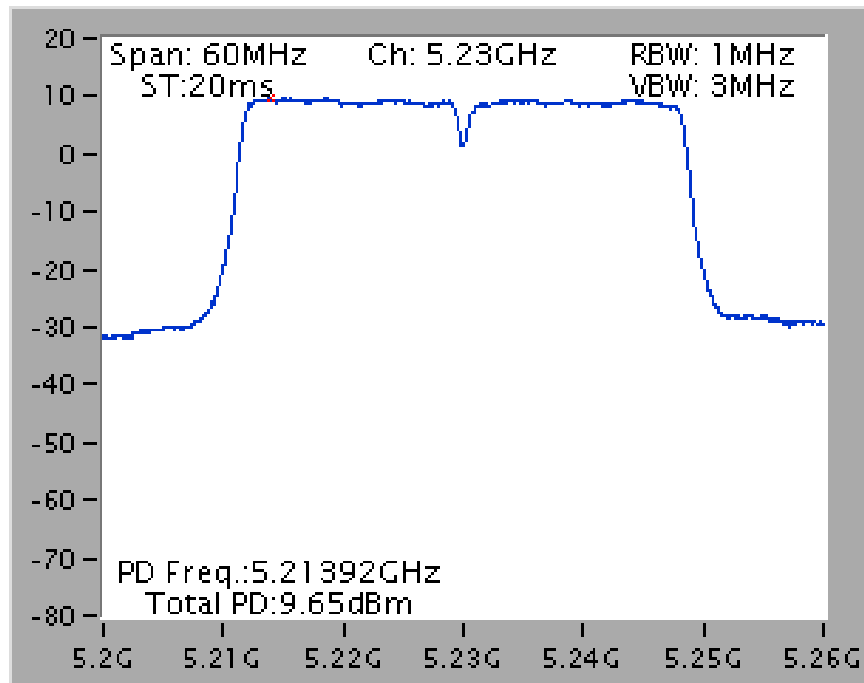
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5240 MHz



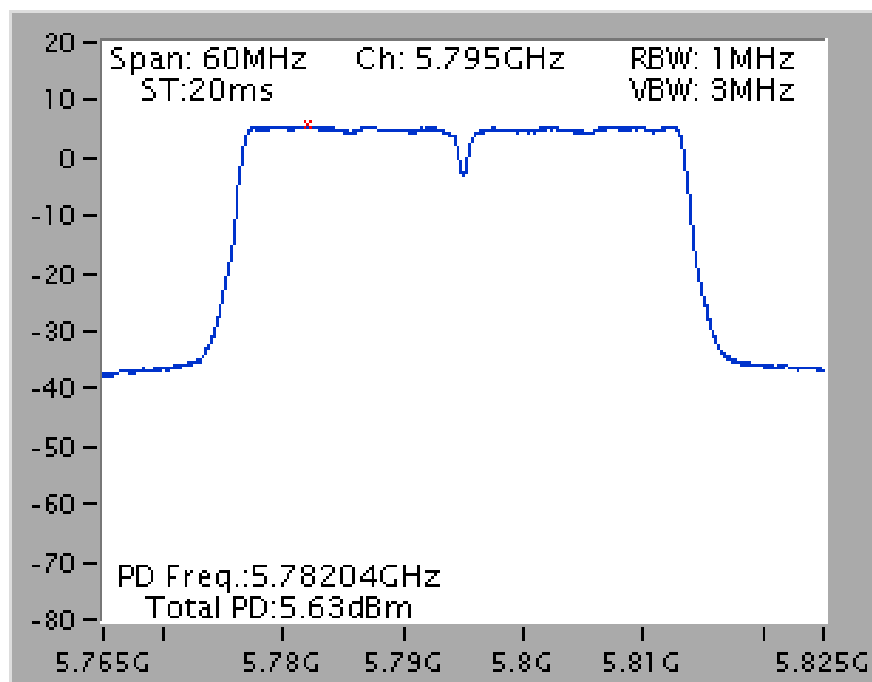
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



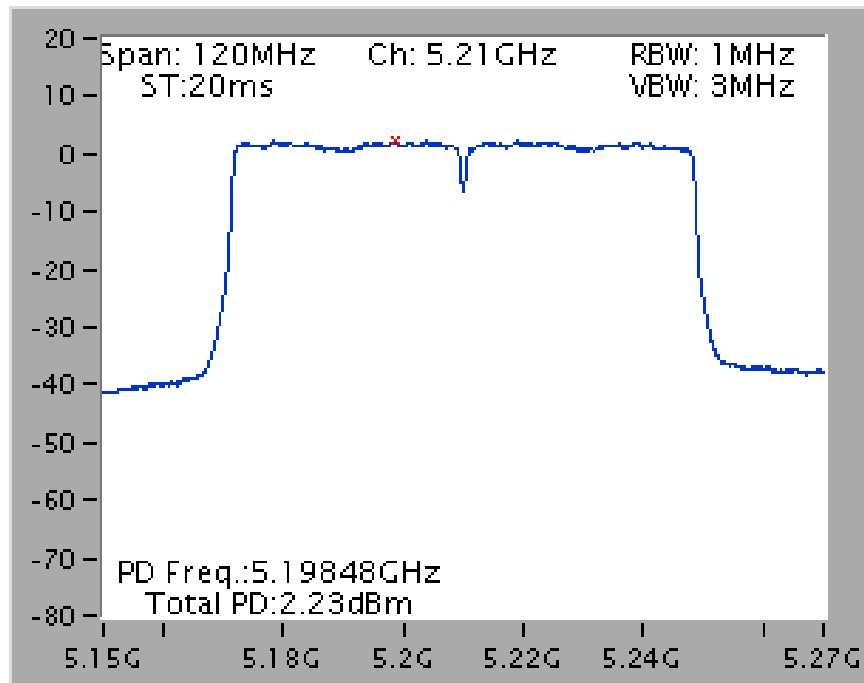
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5230 MHz



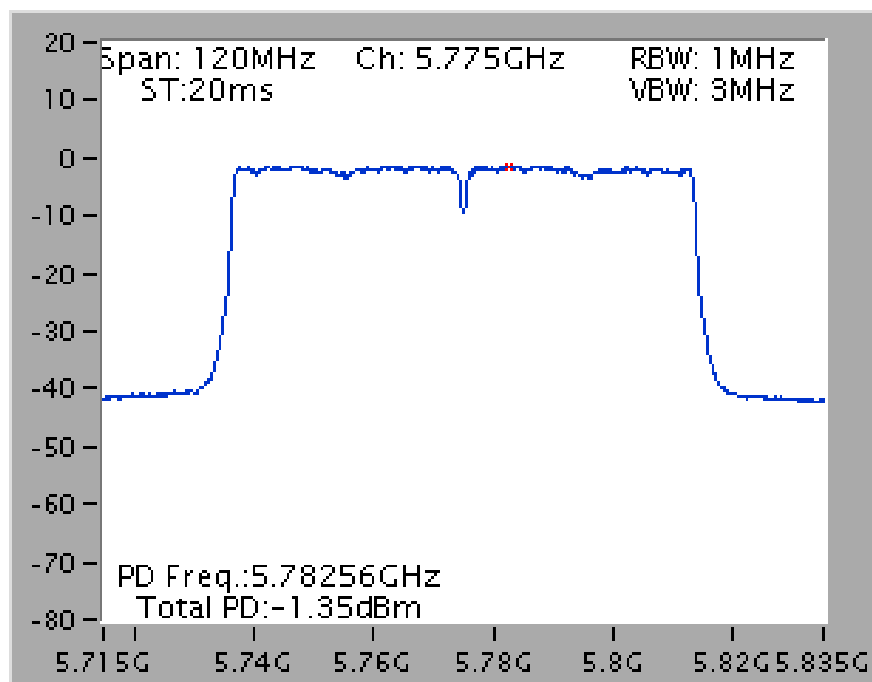
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5210 MHz



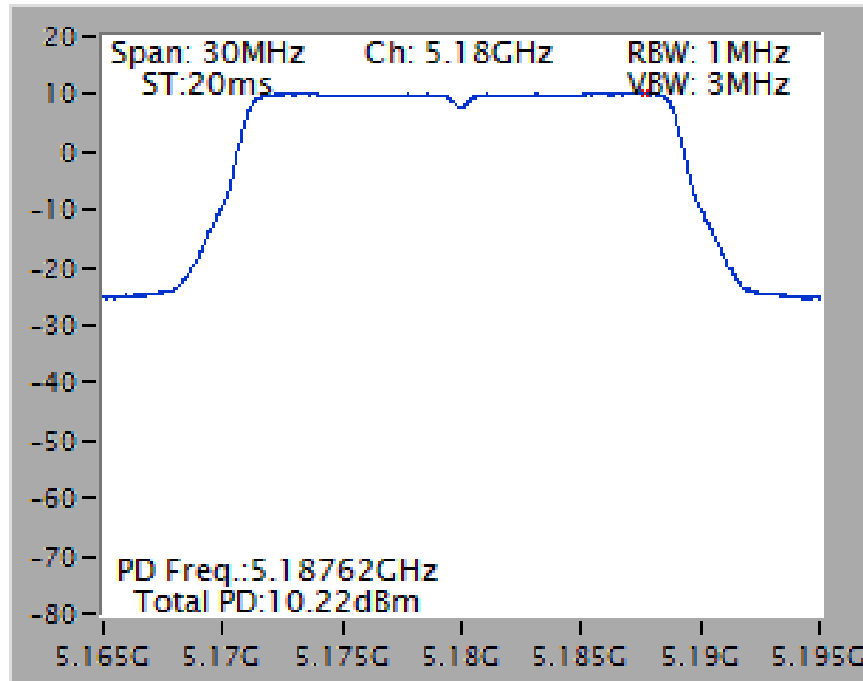
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz



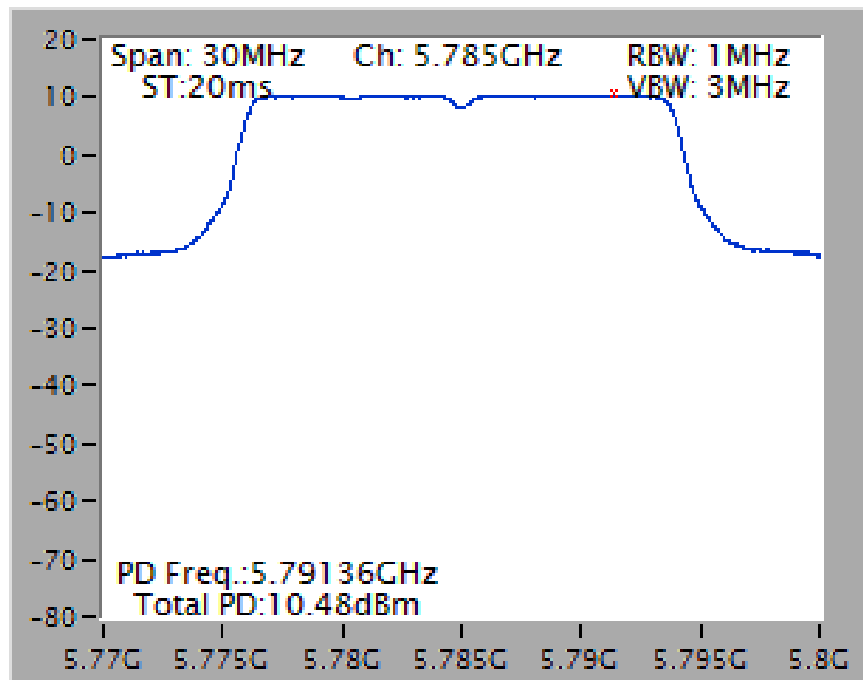
For indoor / outdoor use

Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*1, (2B)1.66dBi*1 / 2TX)

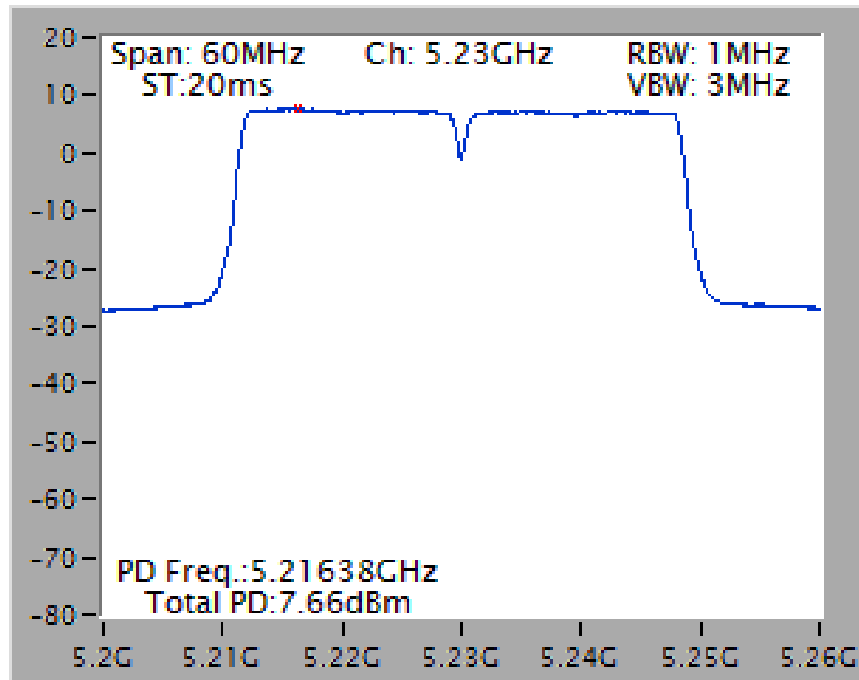
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5180 MHz



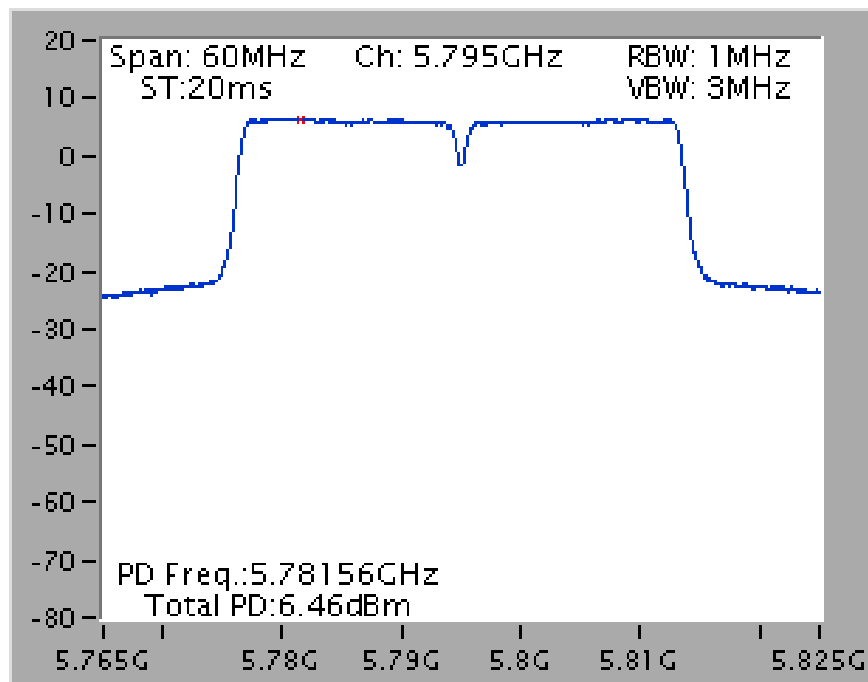
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5785 MHz



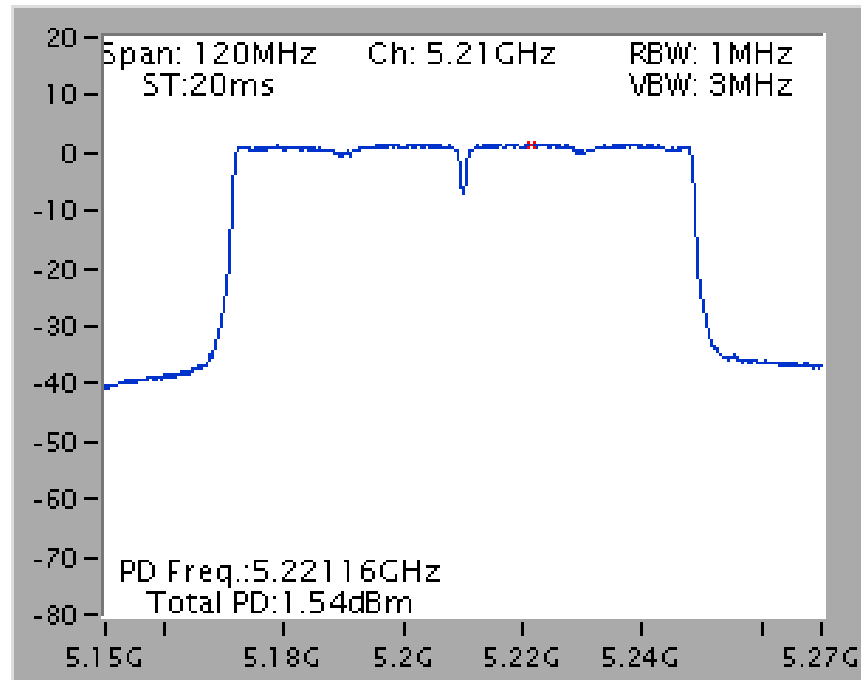
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5230 MHz



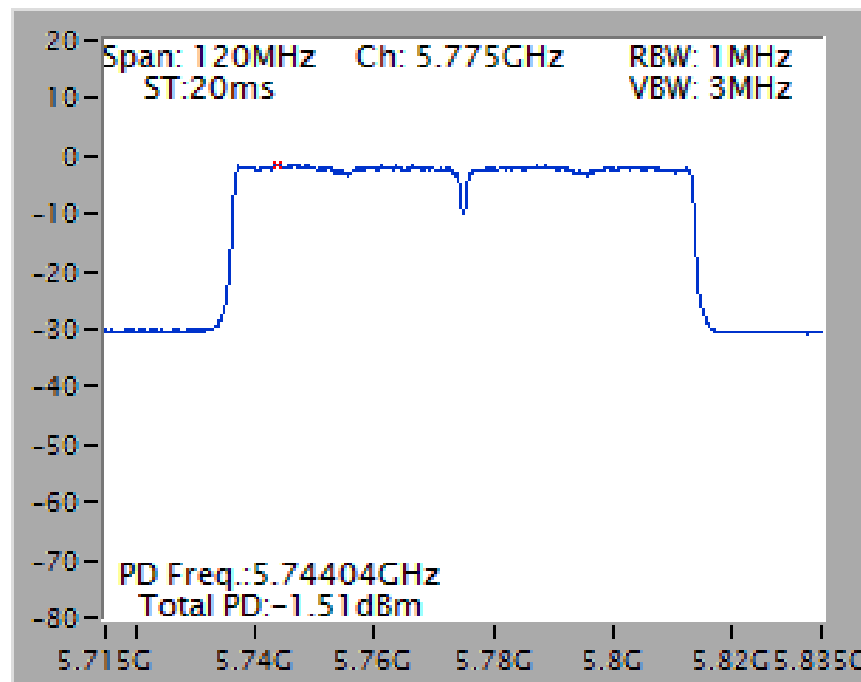
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz

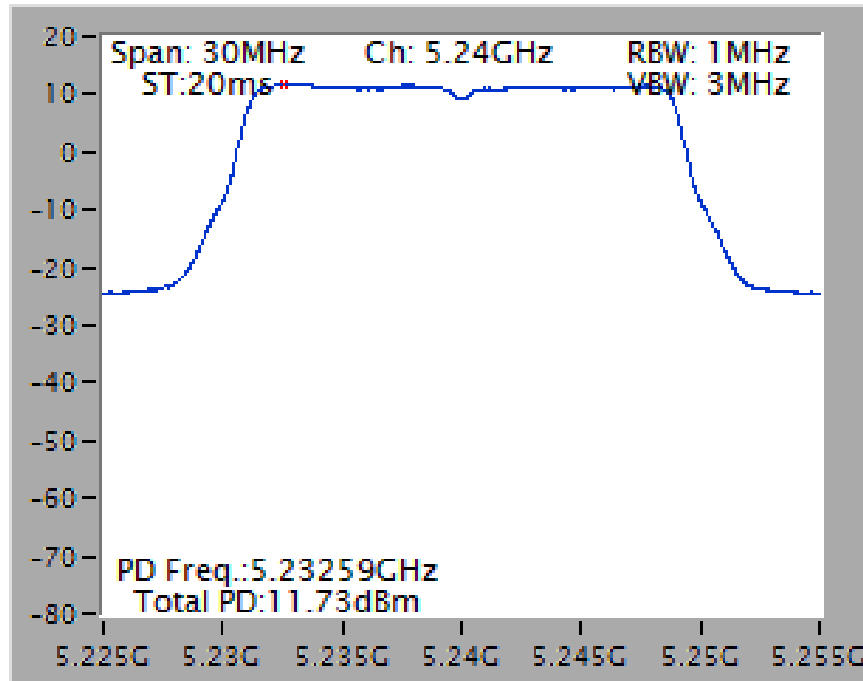


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5775 MHz

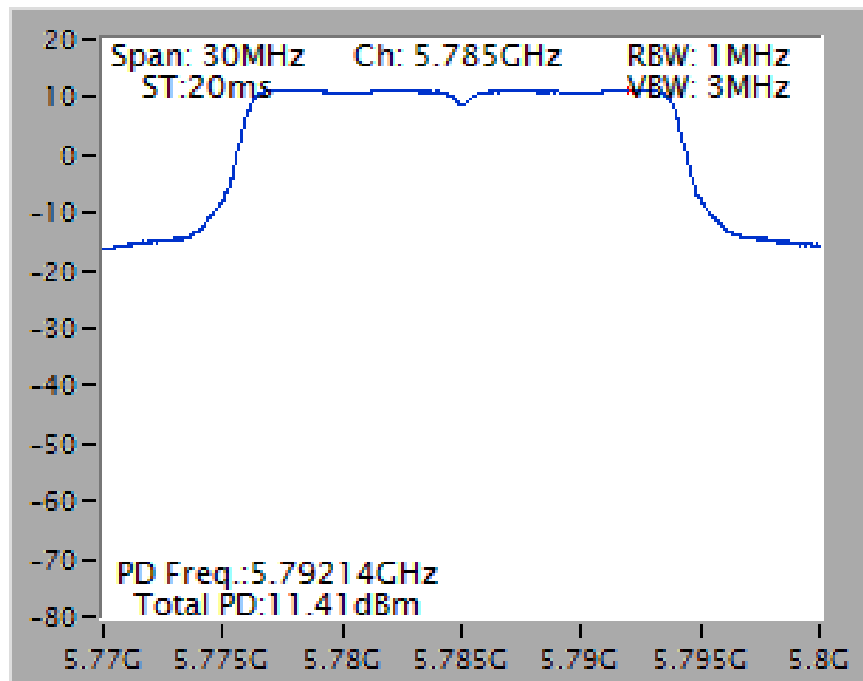


Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*1 / 3TX)

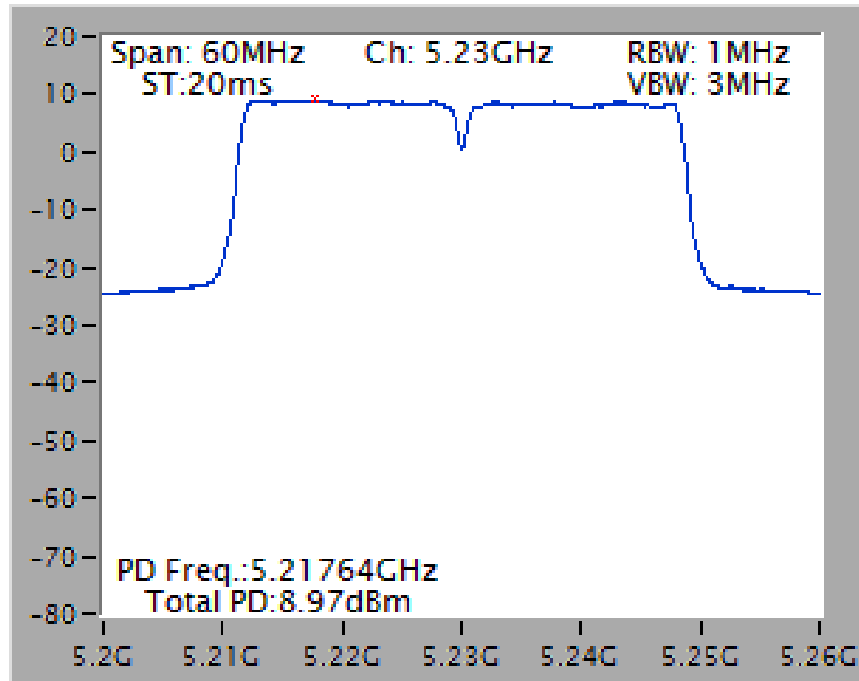
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /
5240 MHz



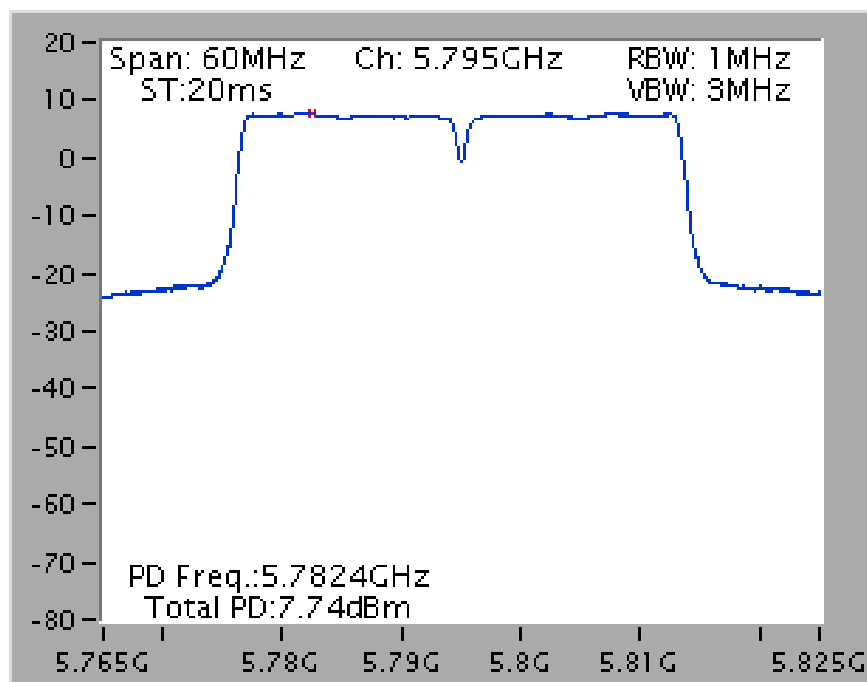
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /
5785 MHz



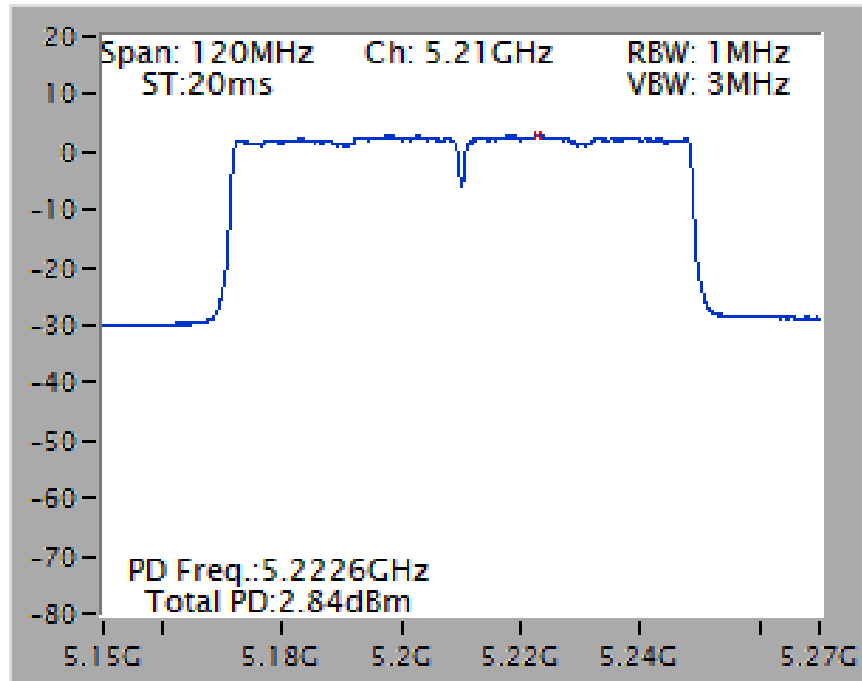
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5230 MHz



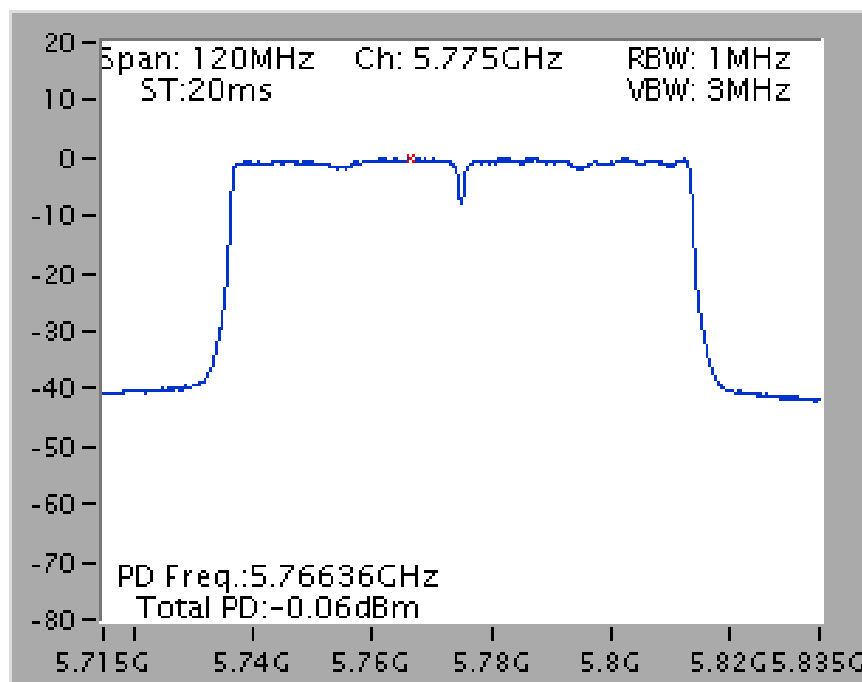
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5210 MHz

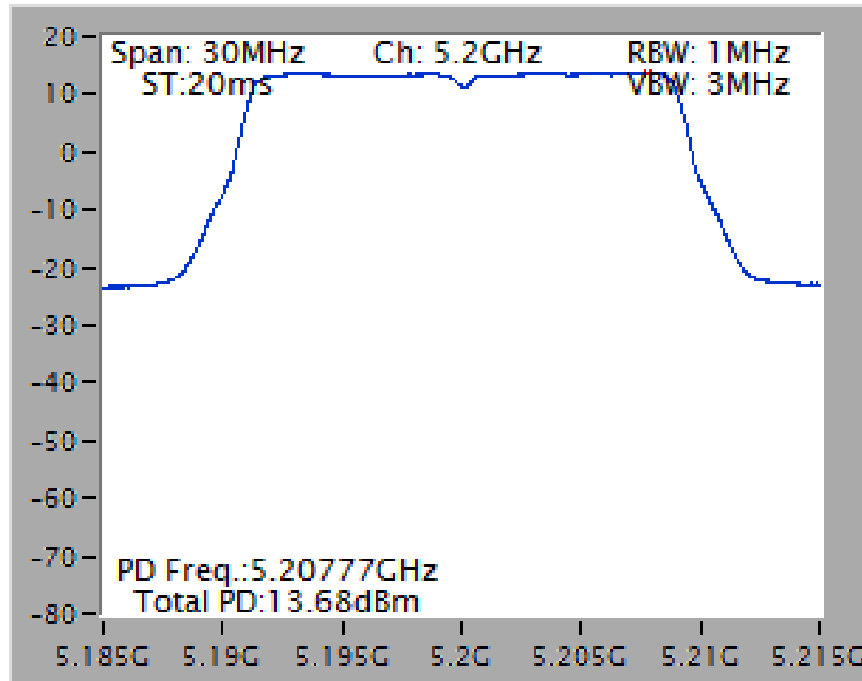


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5775 MHz

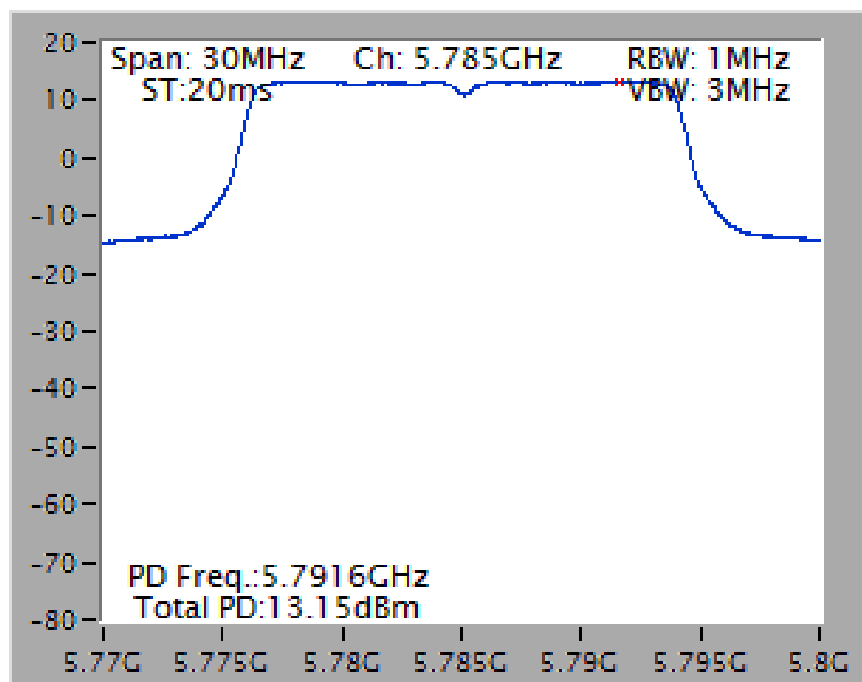


Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)

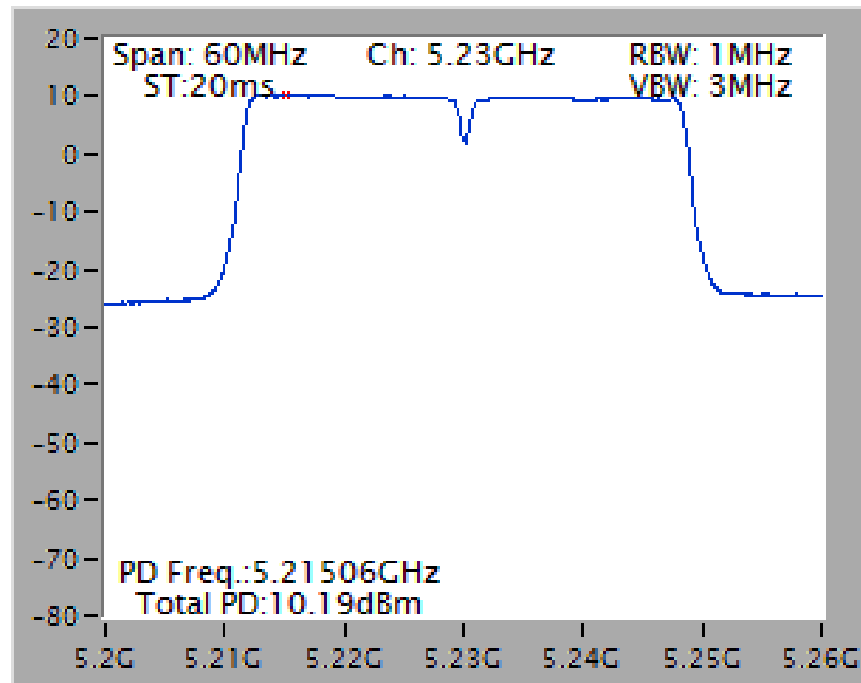
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5200 MHz



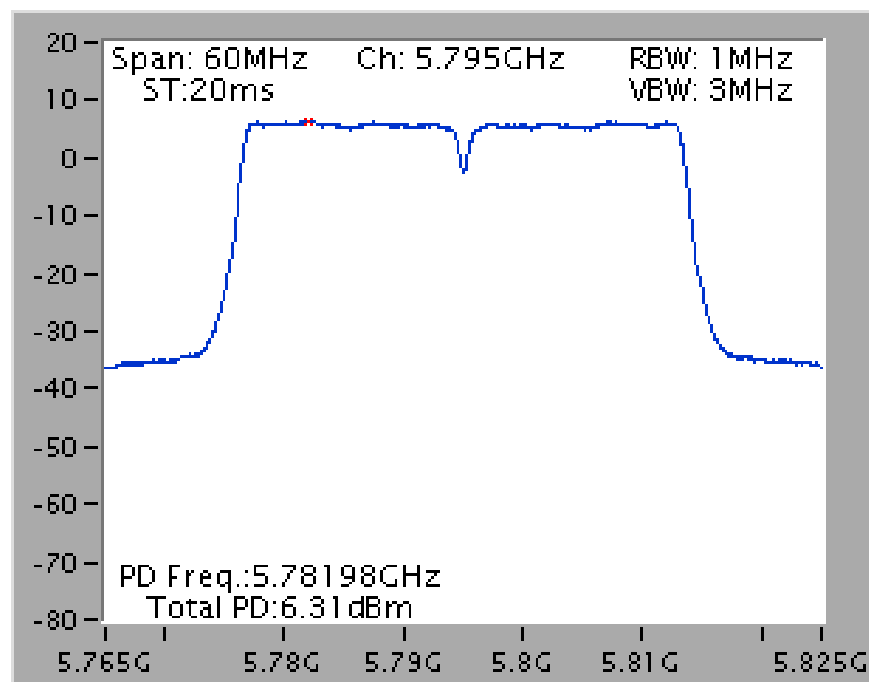
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



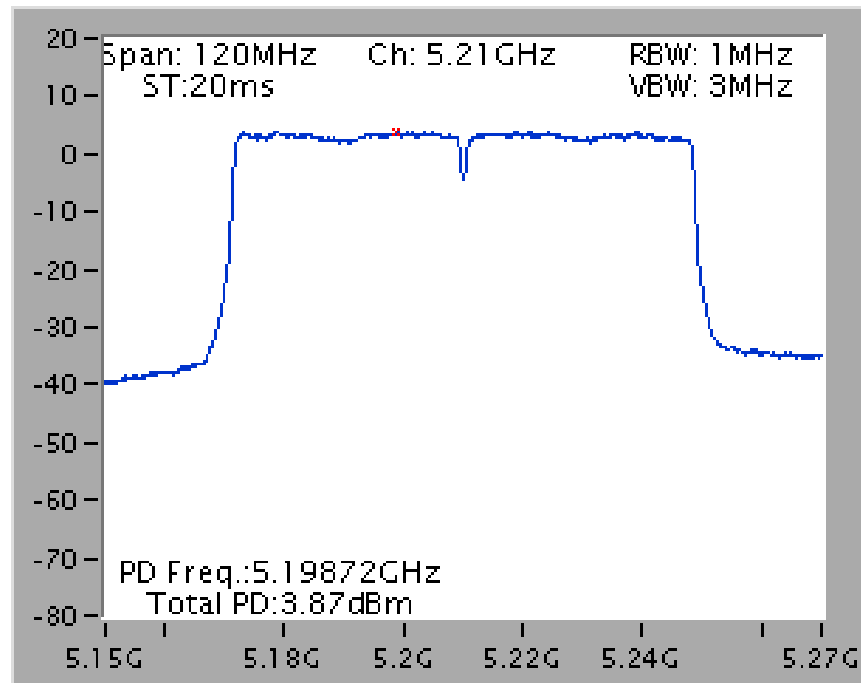
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5230 MHz



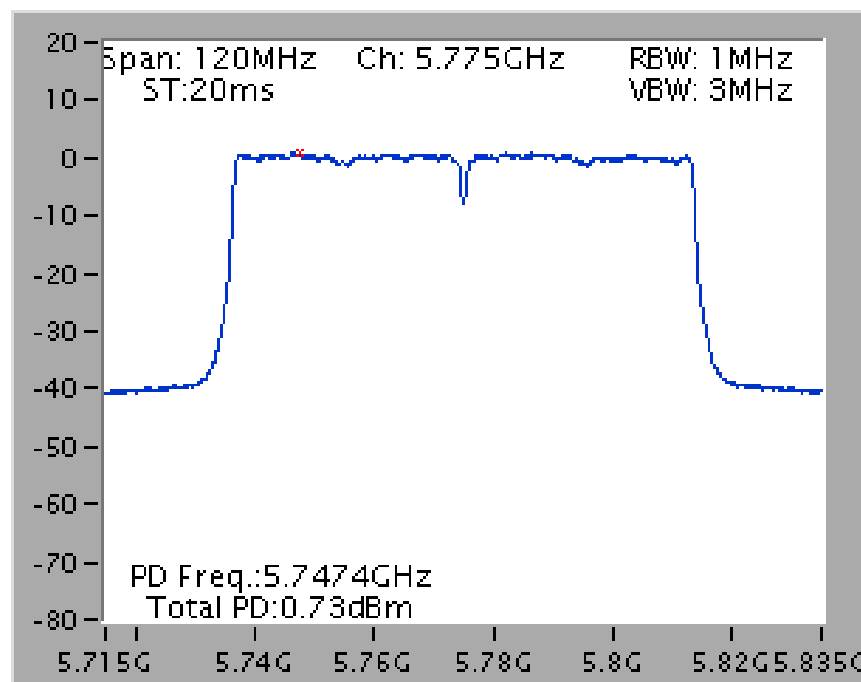
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5210 MHz



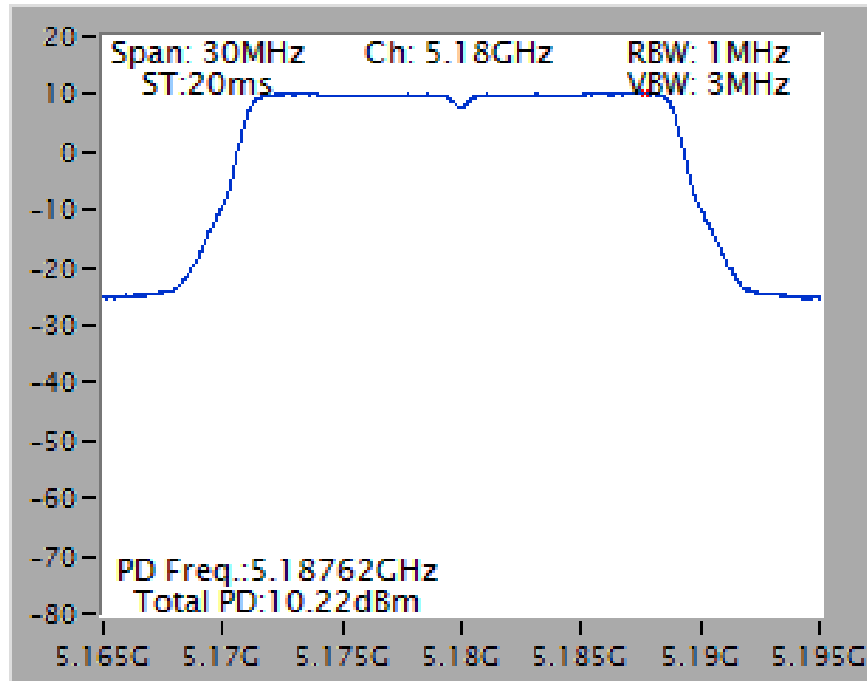
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz



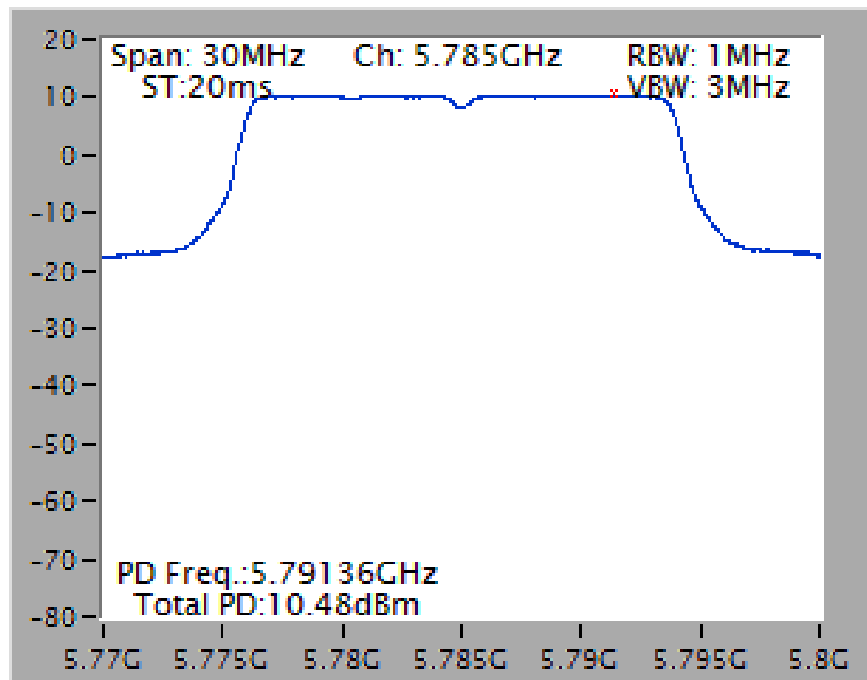
For indoor / outdoor use

Mode 3 (Set 6 Panel antenna / 2.66dBi / 2TX)

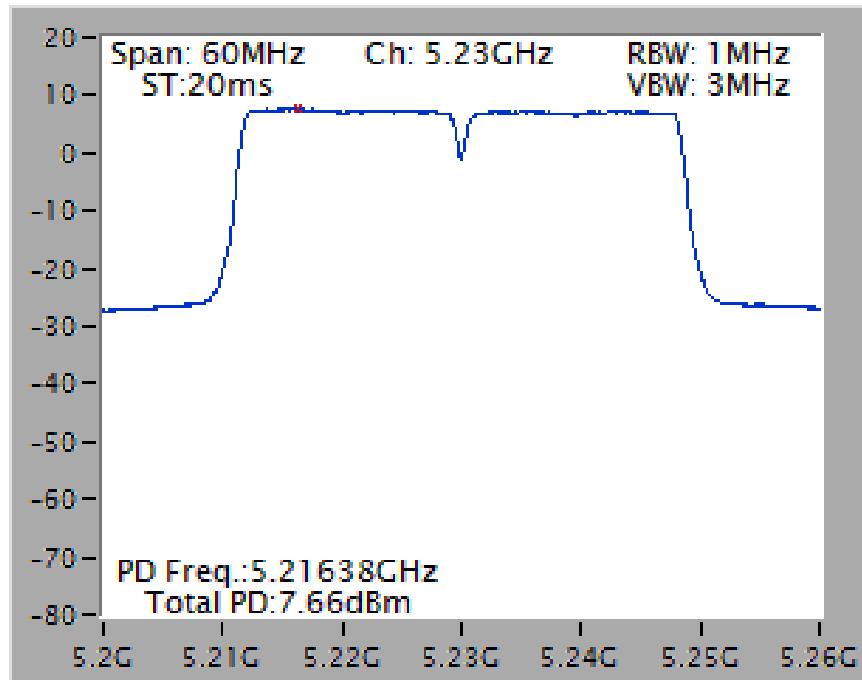
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5180 MHz



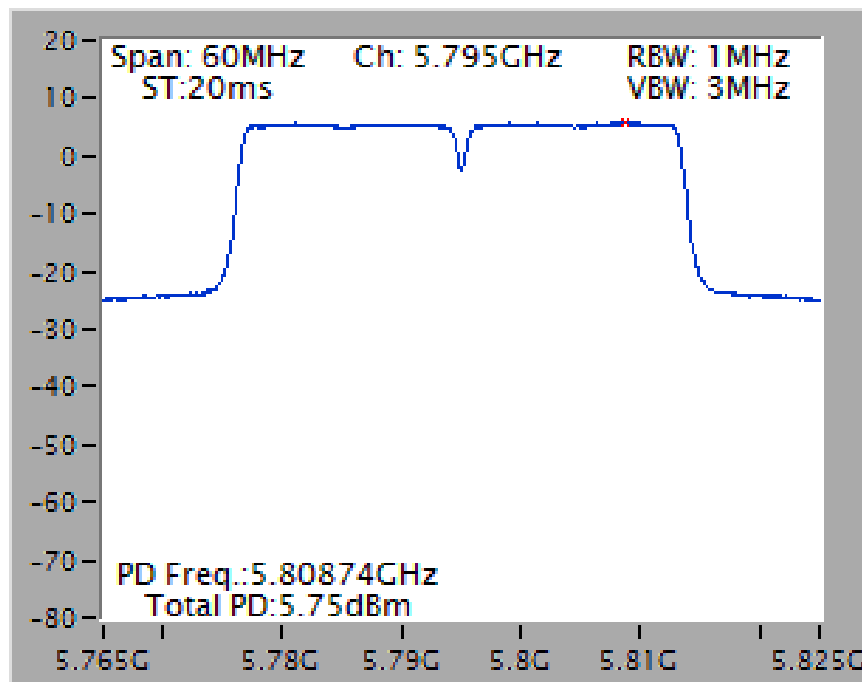
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5785 MHz



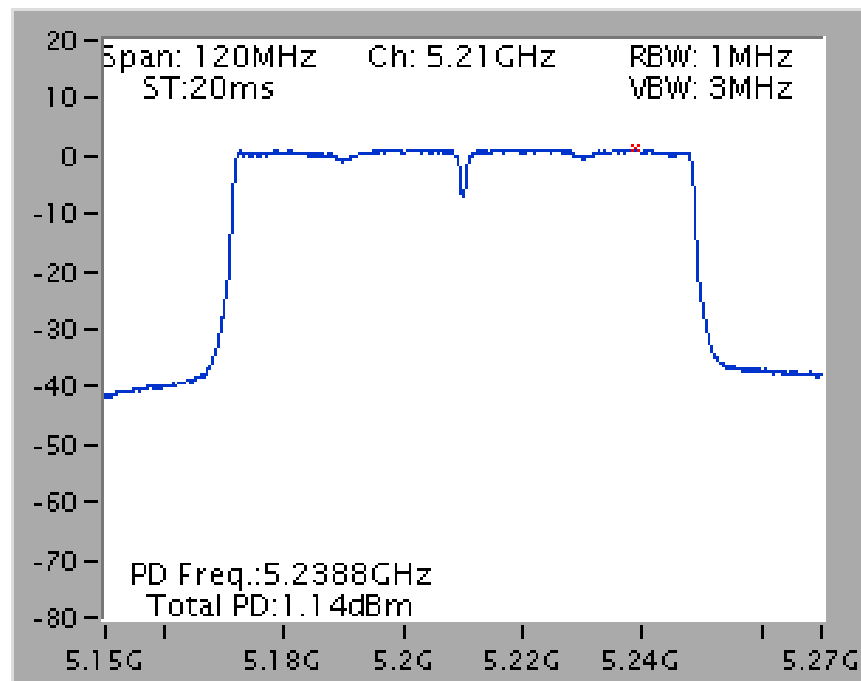
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5230 MHz



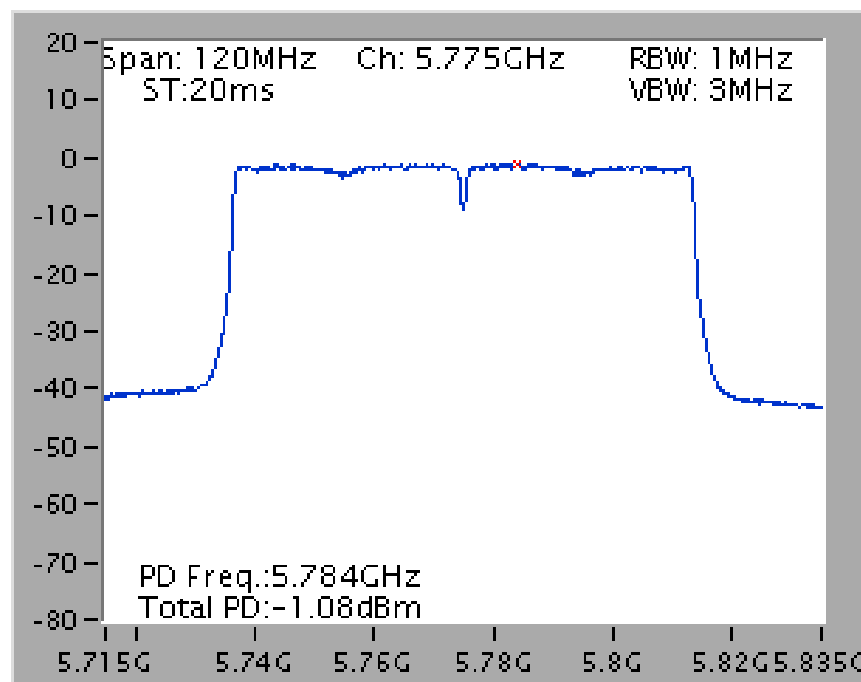
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz

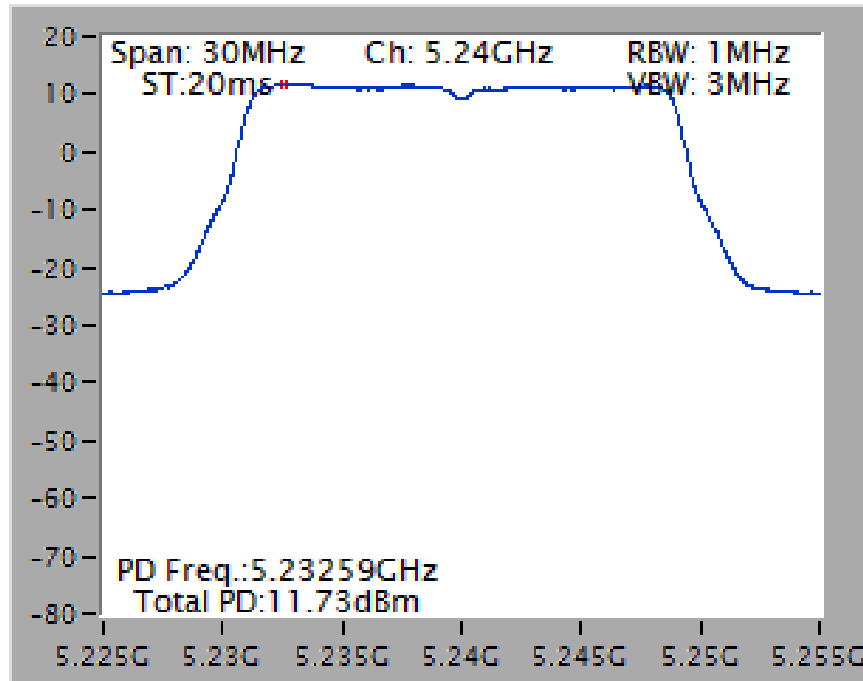


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5775 MHz

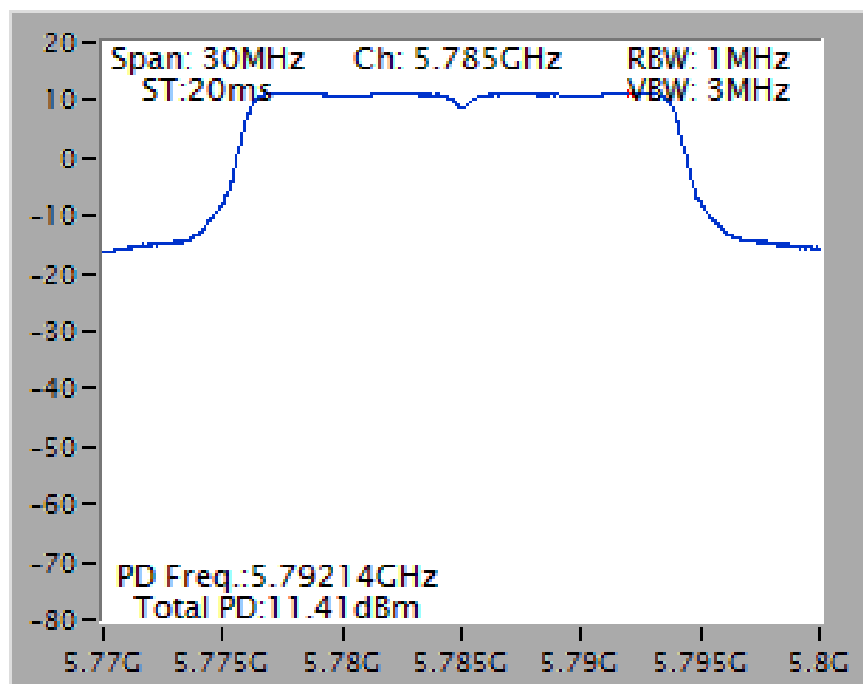


Mode 3 (Set 6 Panel antenna / 2.66dBi / 3TX)

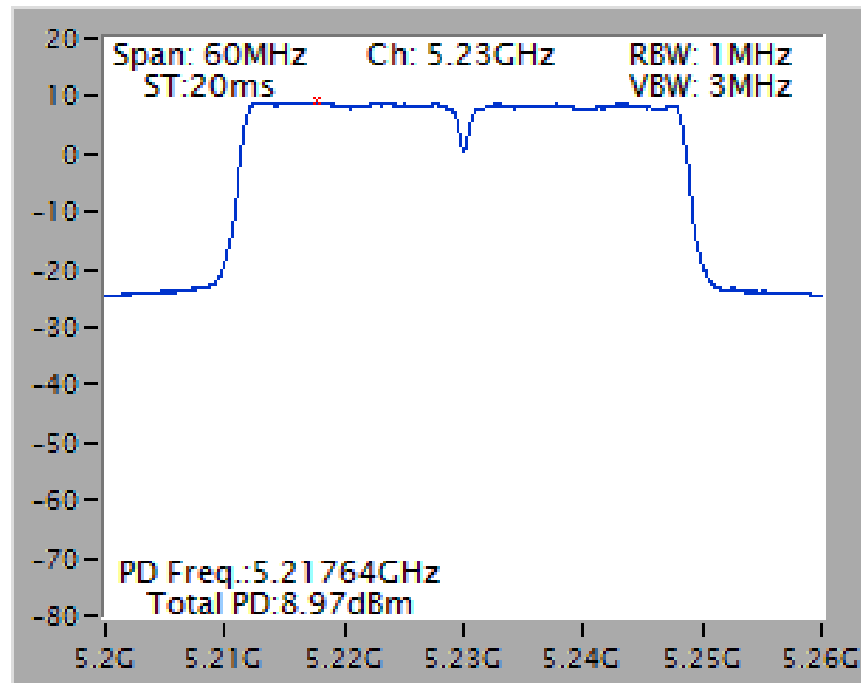
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 / 5240 MHz



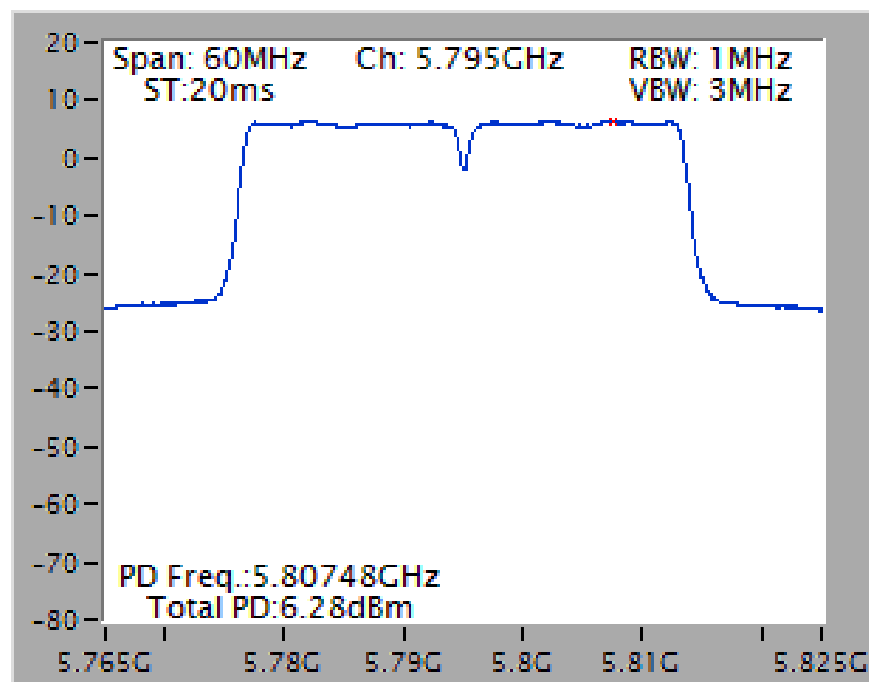
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 / 5785 MHz



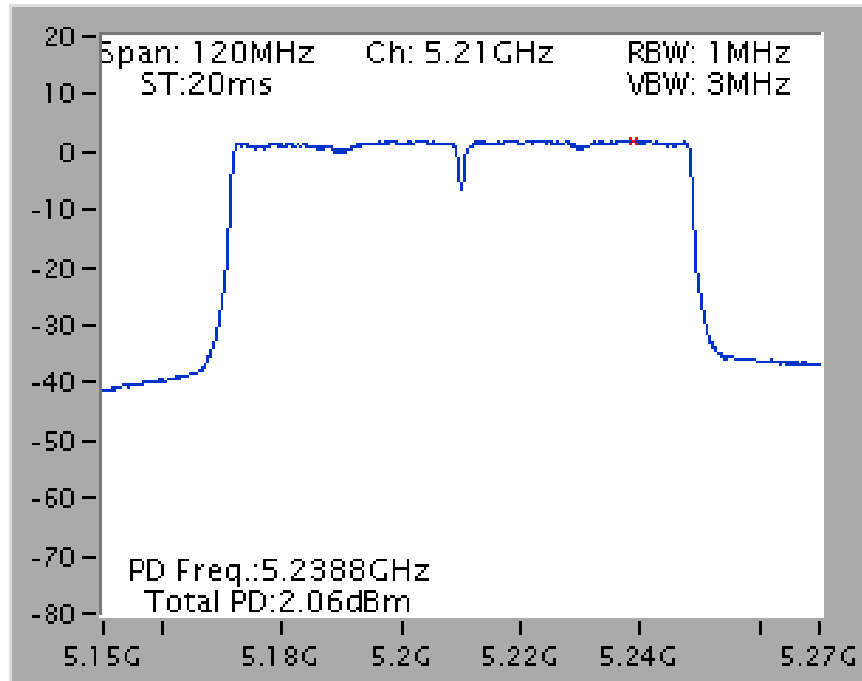
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5230 MHz



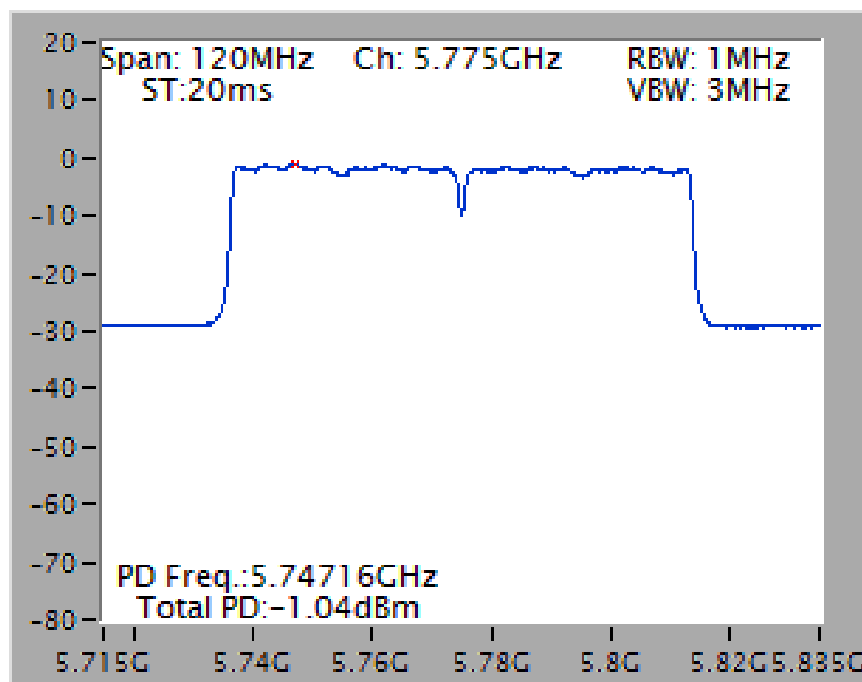
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5210 MHz

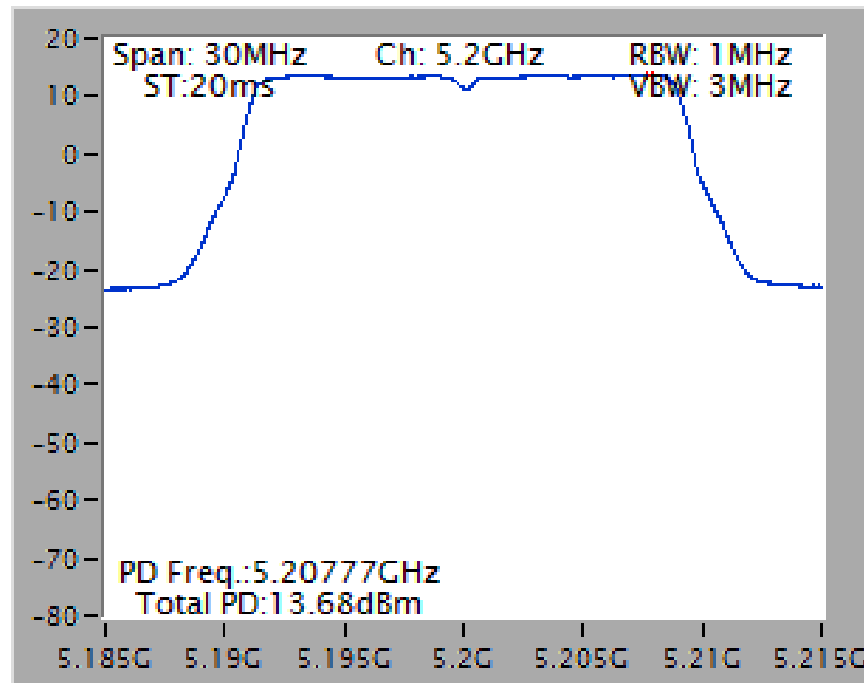


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5775 MHz

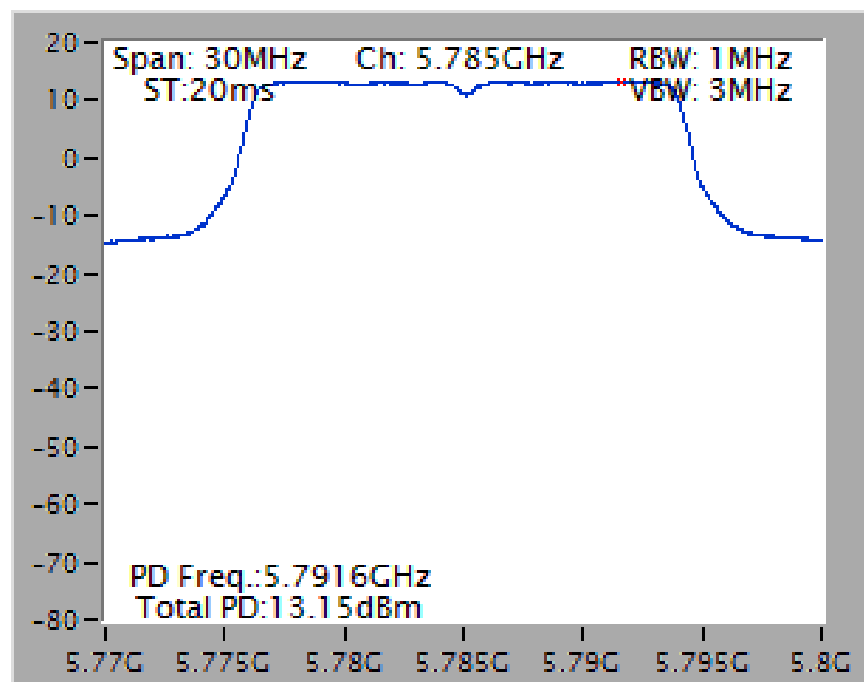


Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)

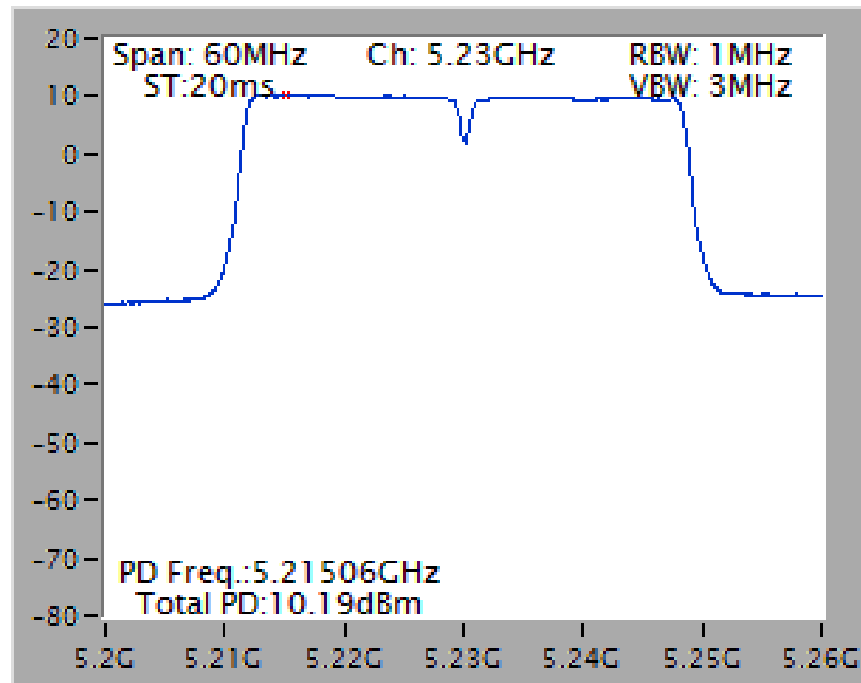
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5200 MHz



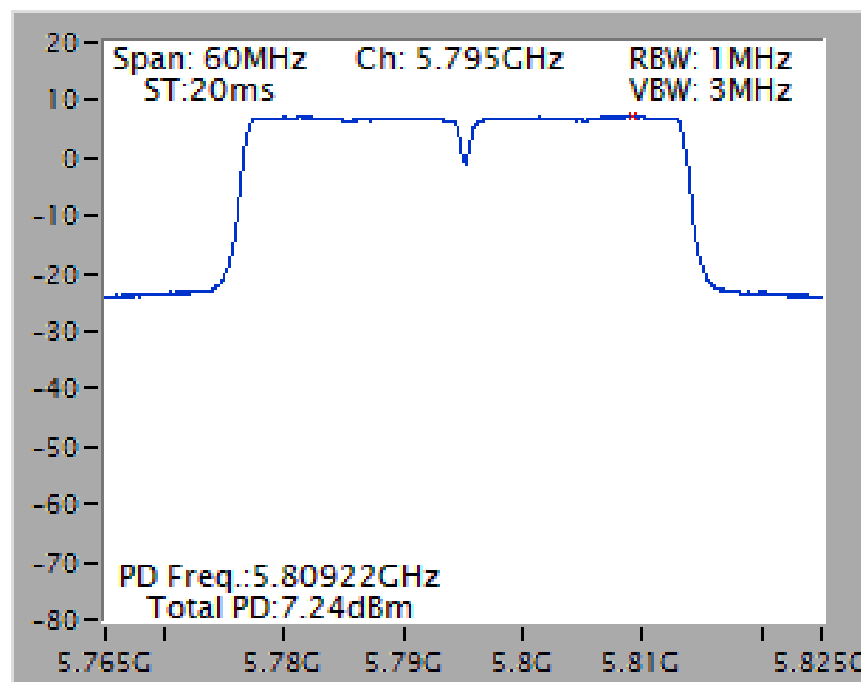
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



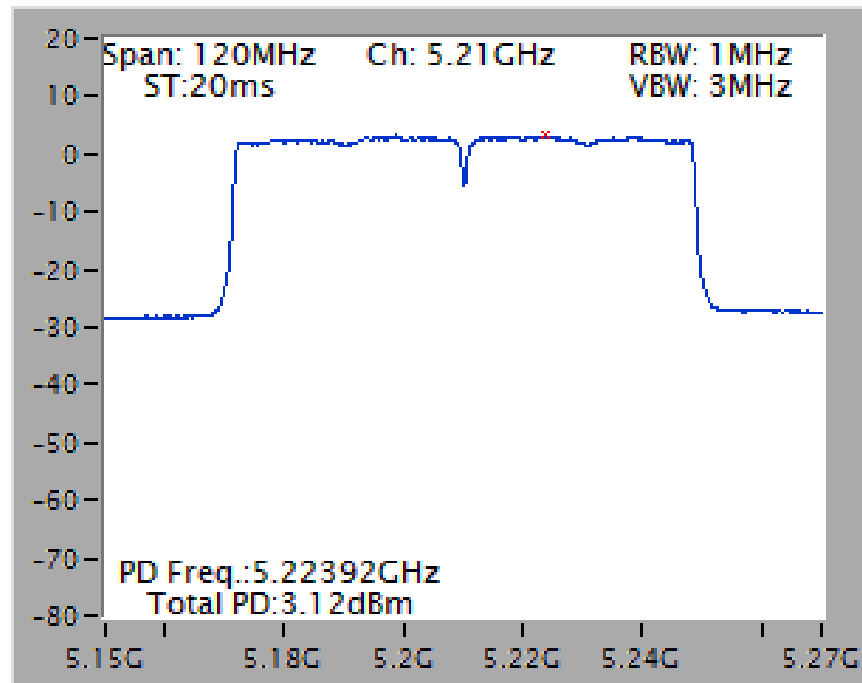
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5230 MHz



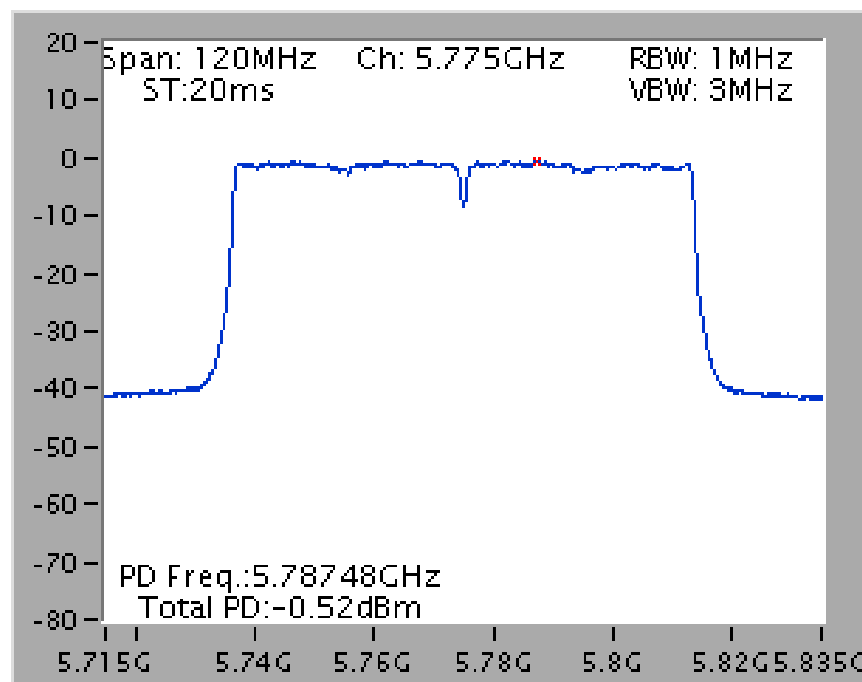
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5210 MHz



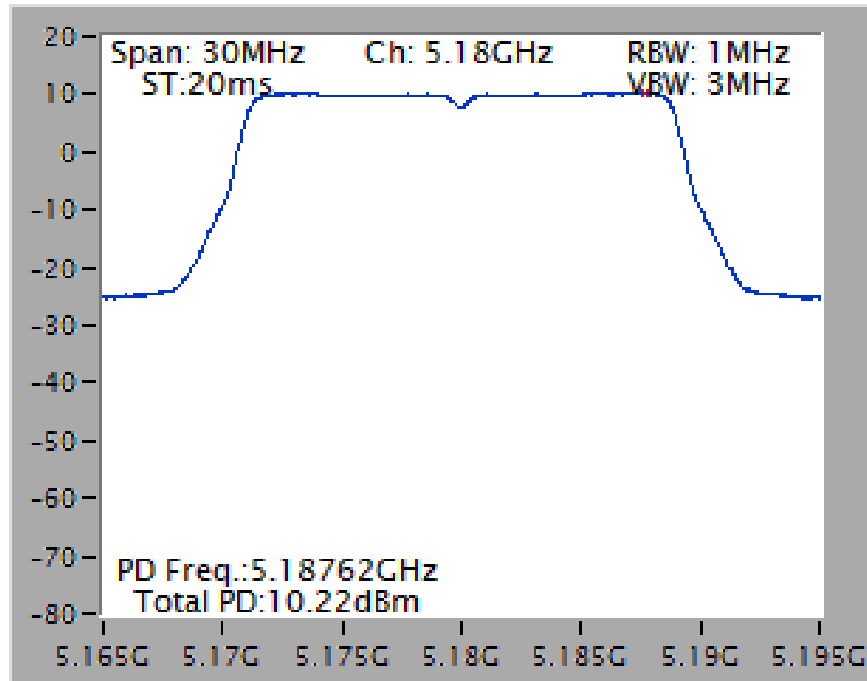
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz



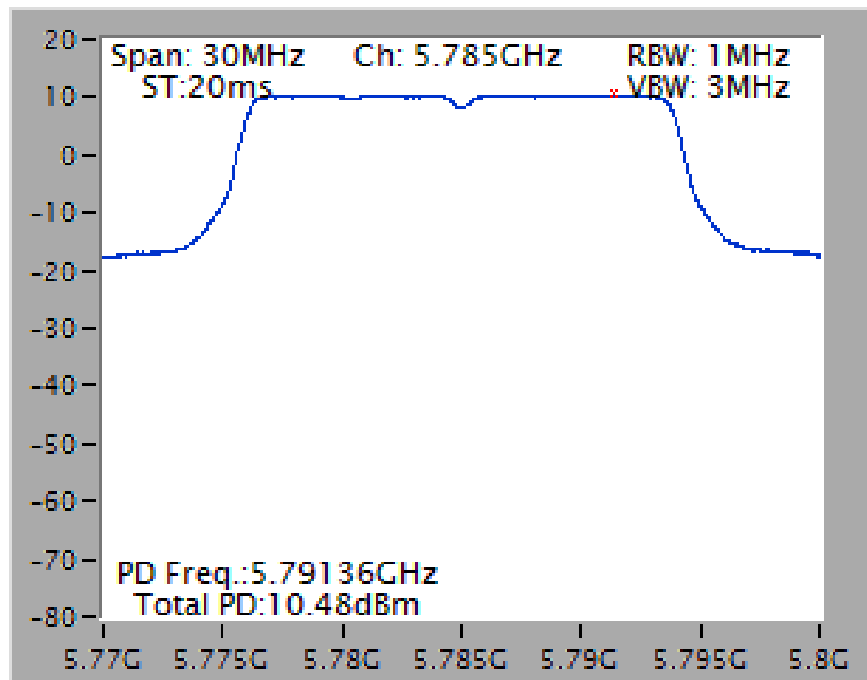
For indoor / outdoor use

Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 2TX)

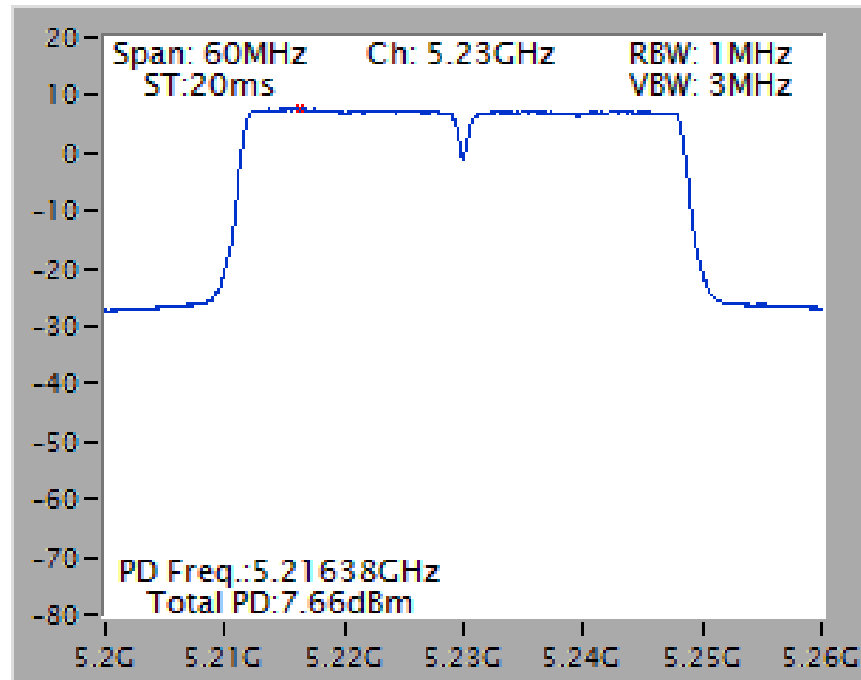
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5180 MHz



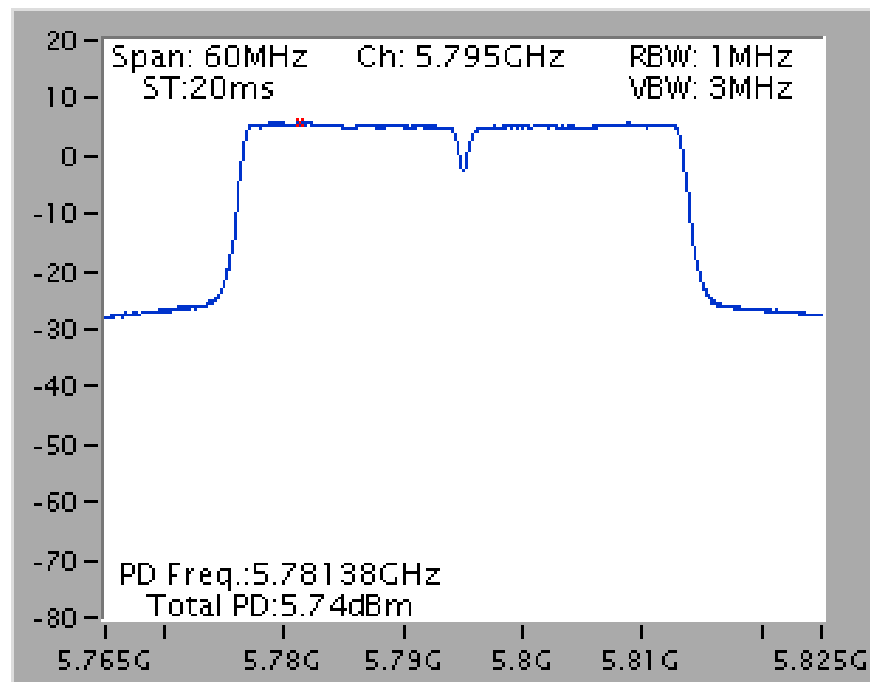
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5785 MHz



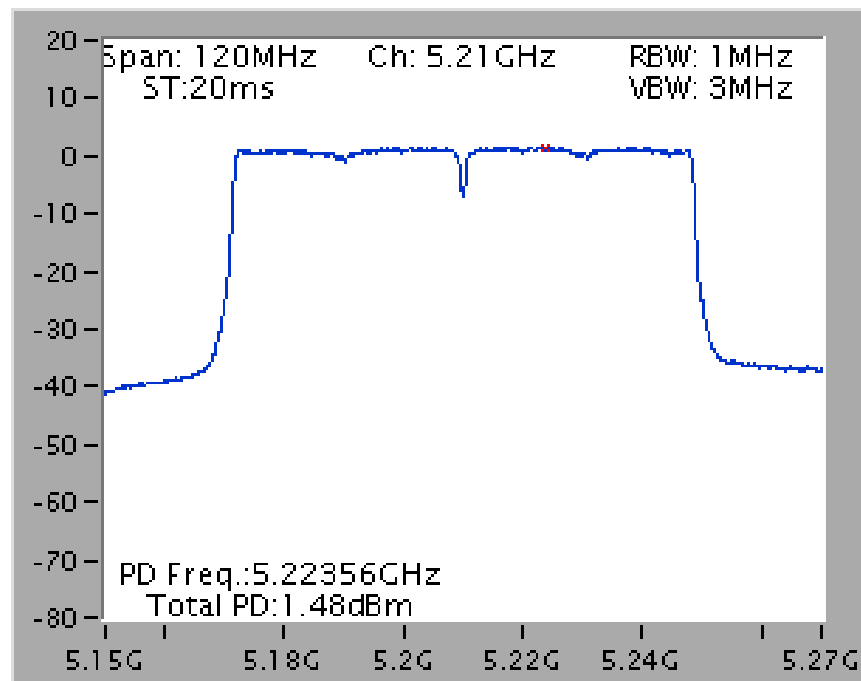
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5230 MHz



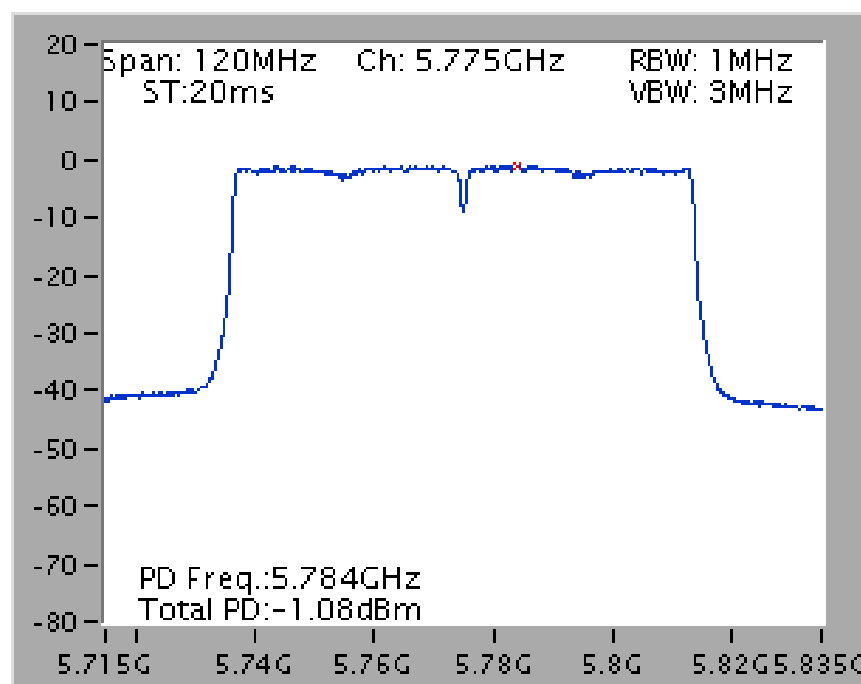
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz

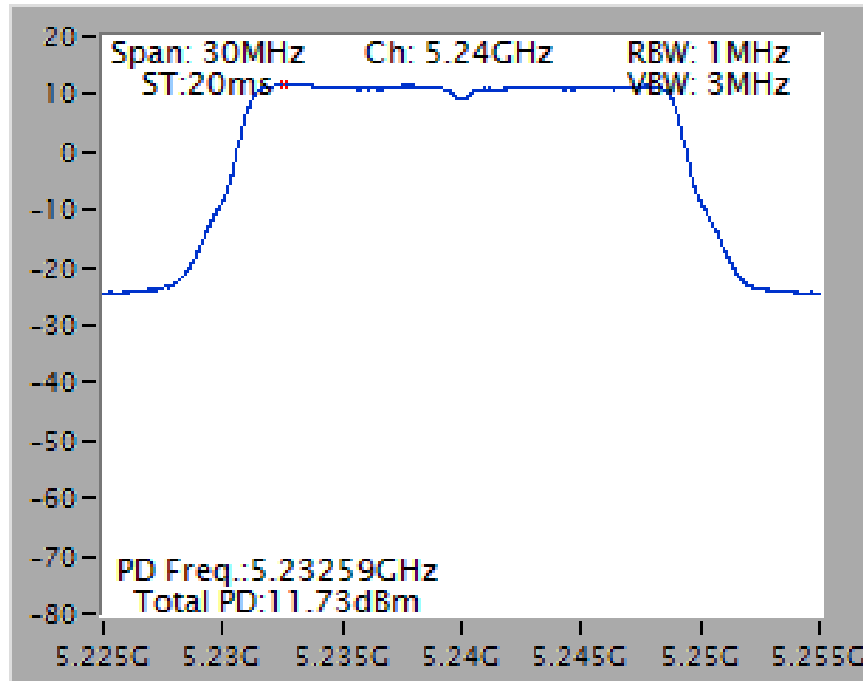


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5775 MHz

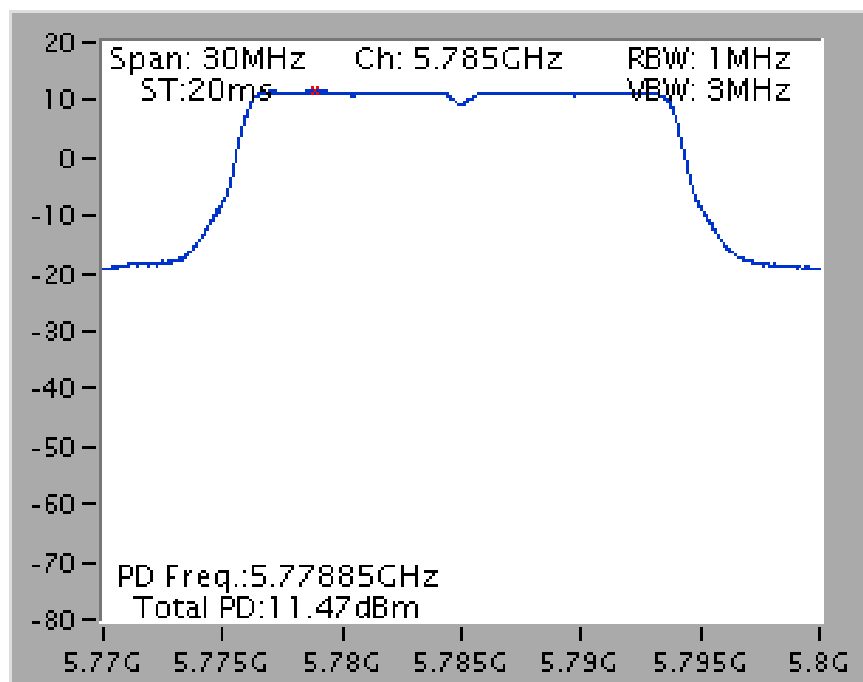


Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 3TX)

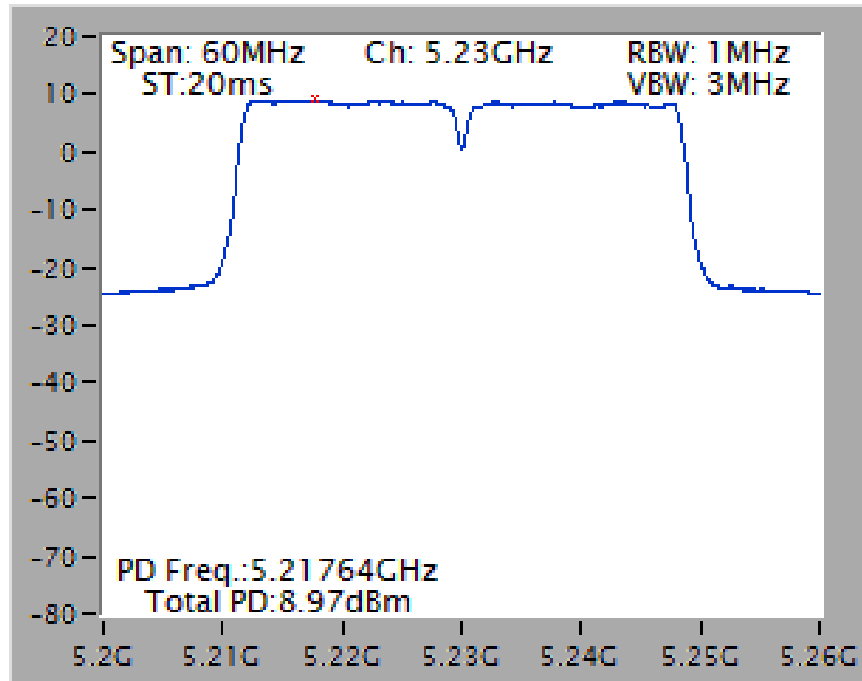
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /
5240 MHz



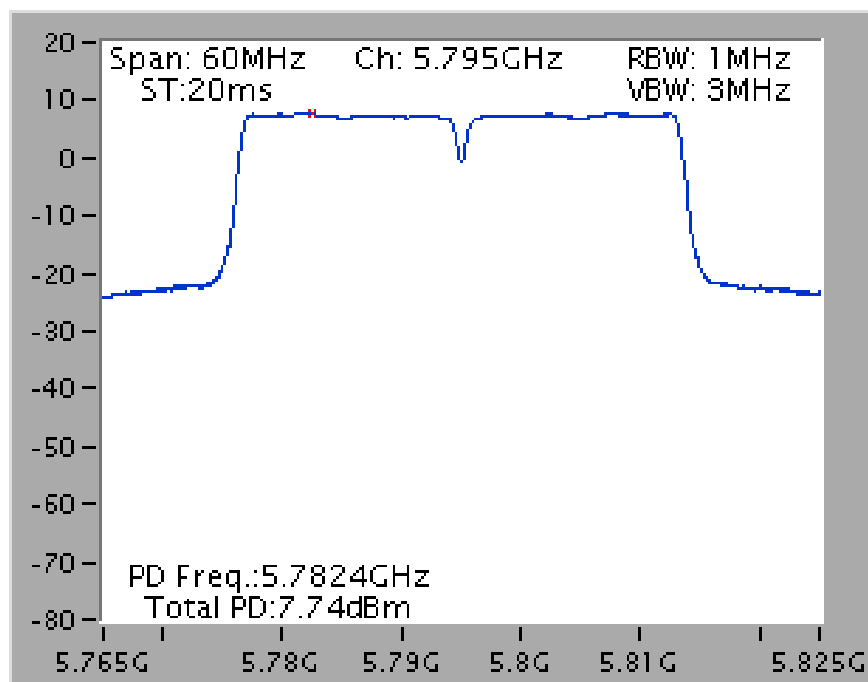
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /
5785 MHz



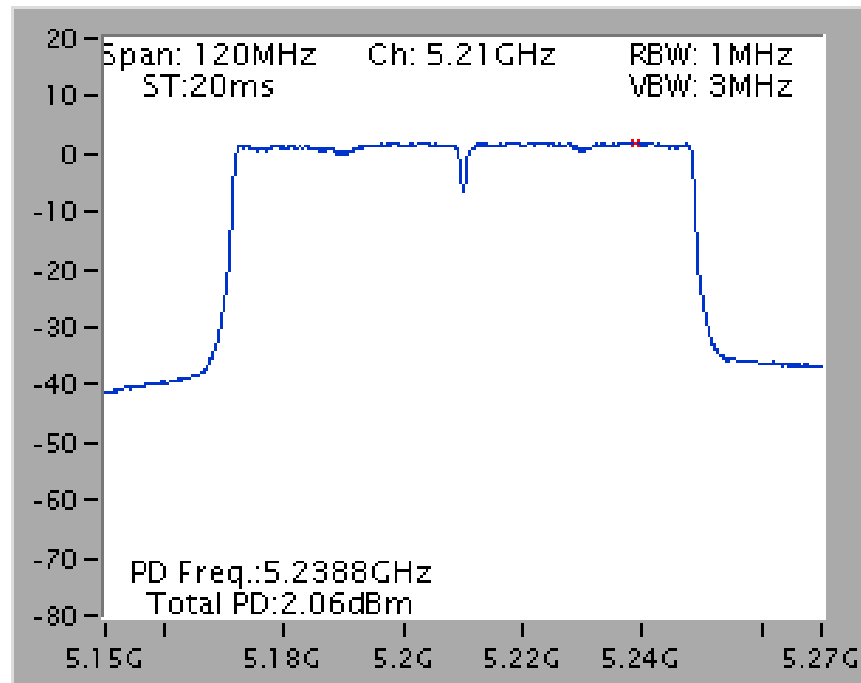
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5230 MHz



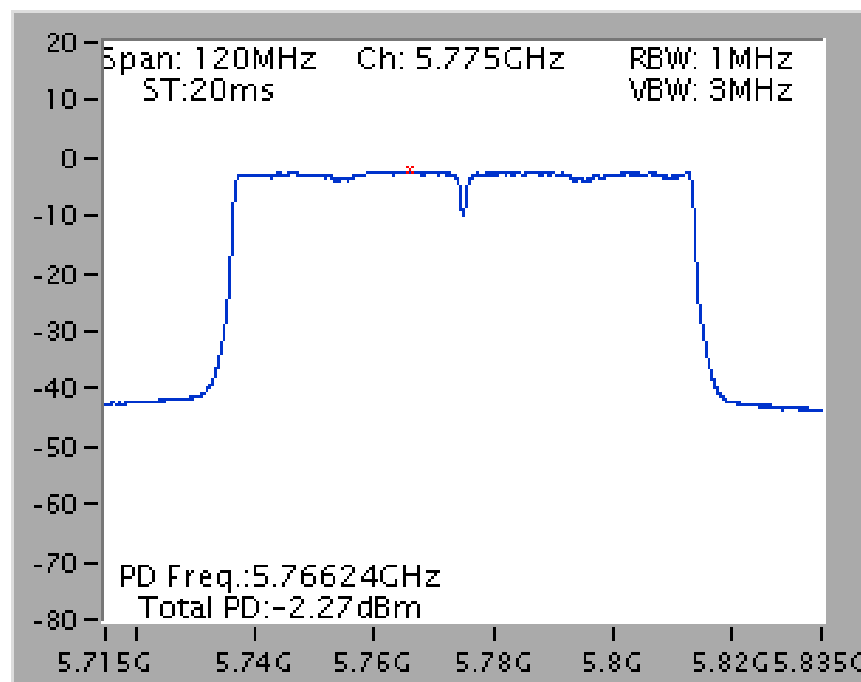
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5210 MHz

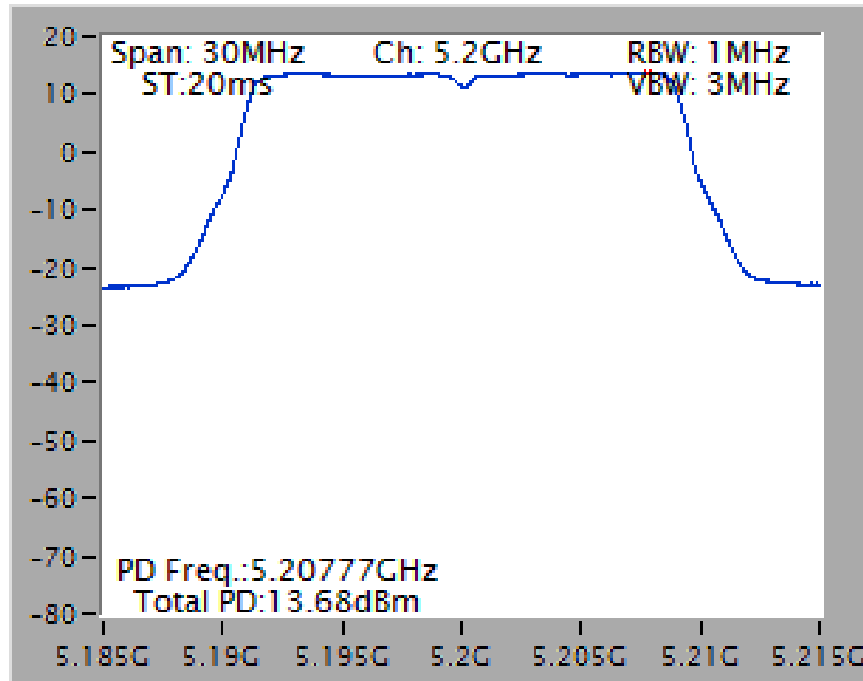


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5775 MHz

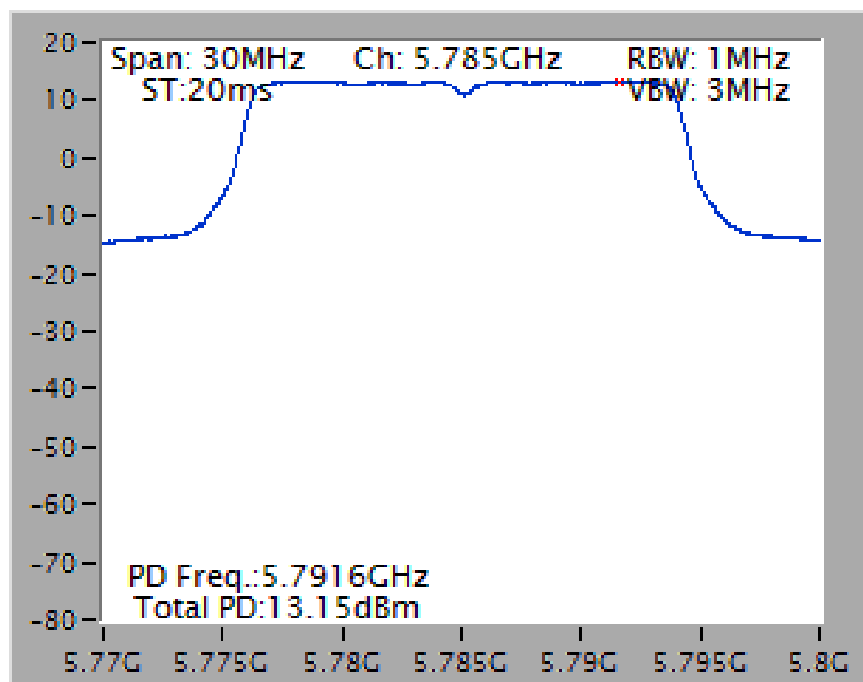


Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 4TX)

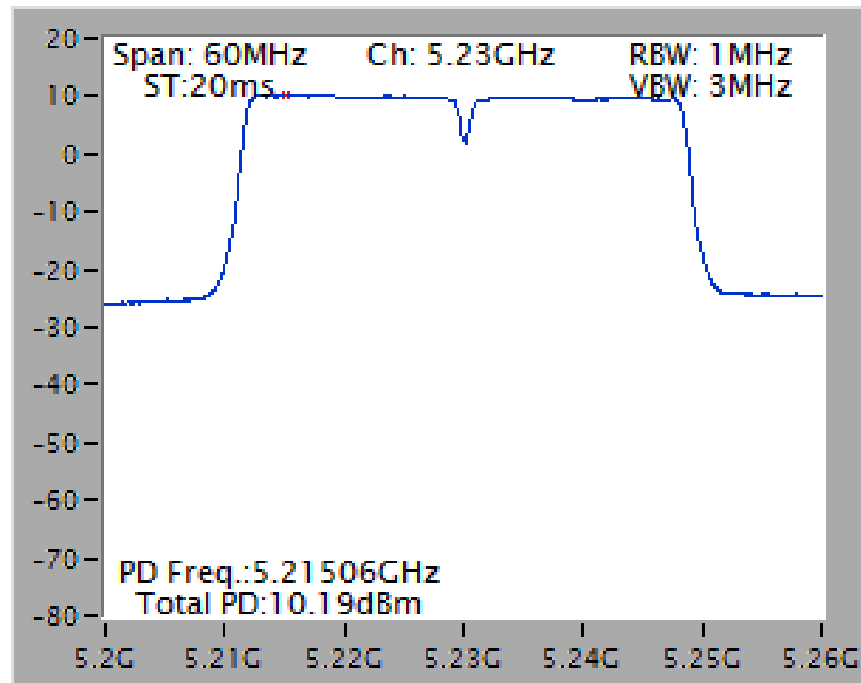
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5200 MHz



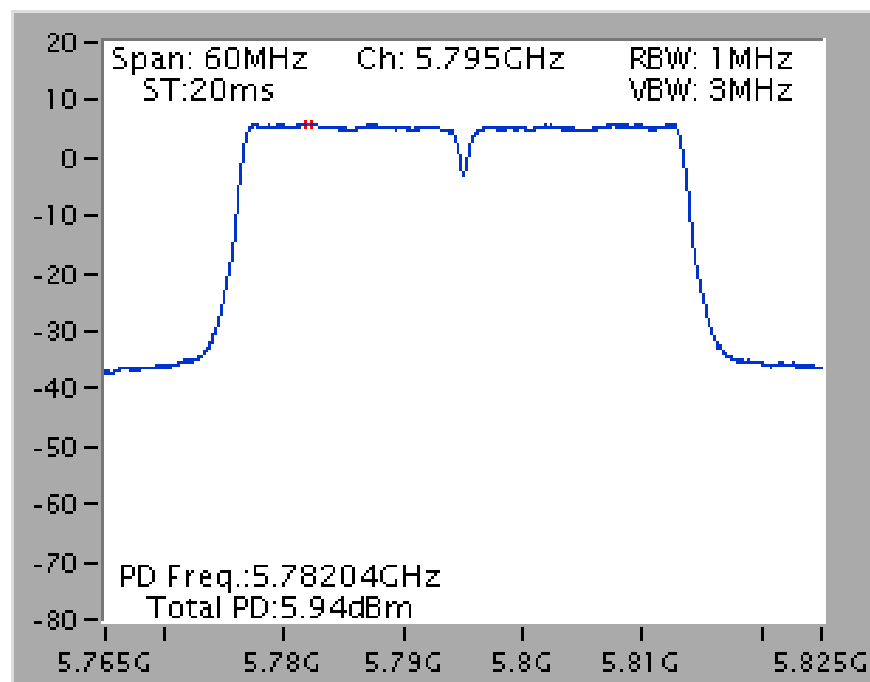
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



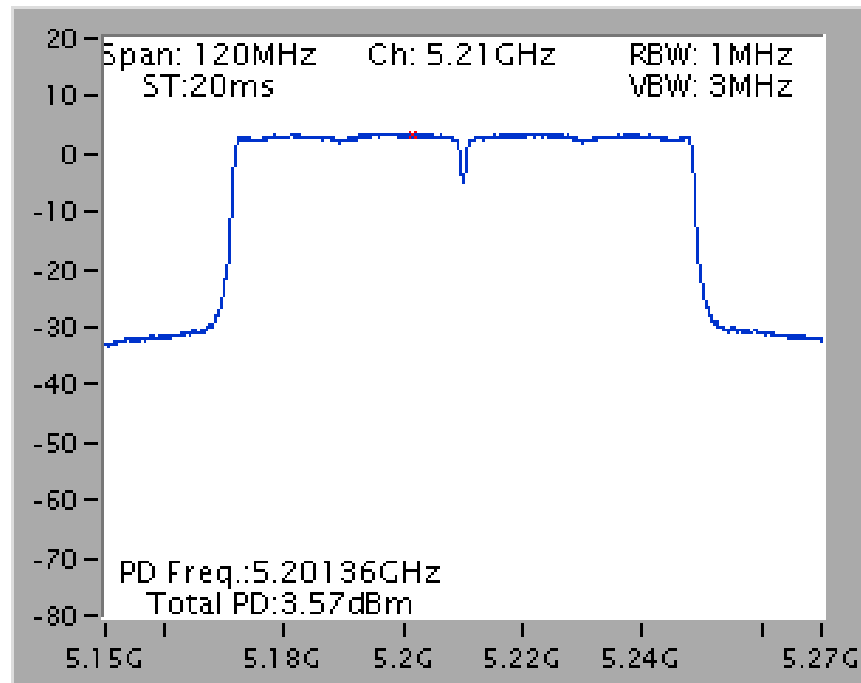
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5230 MHz



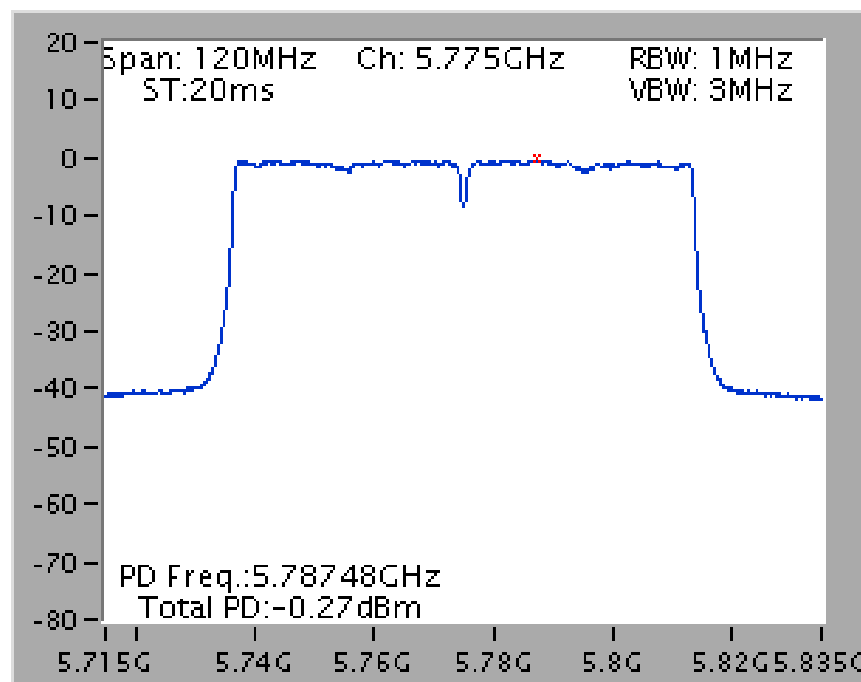
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5210 MHz



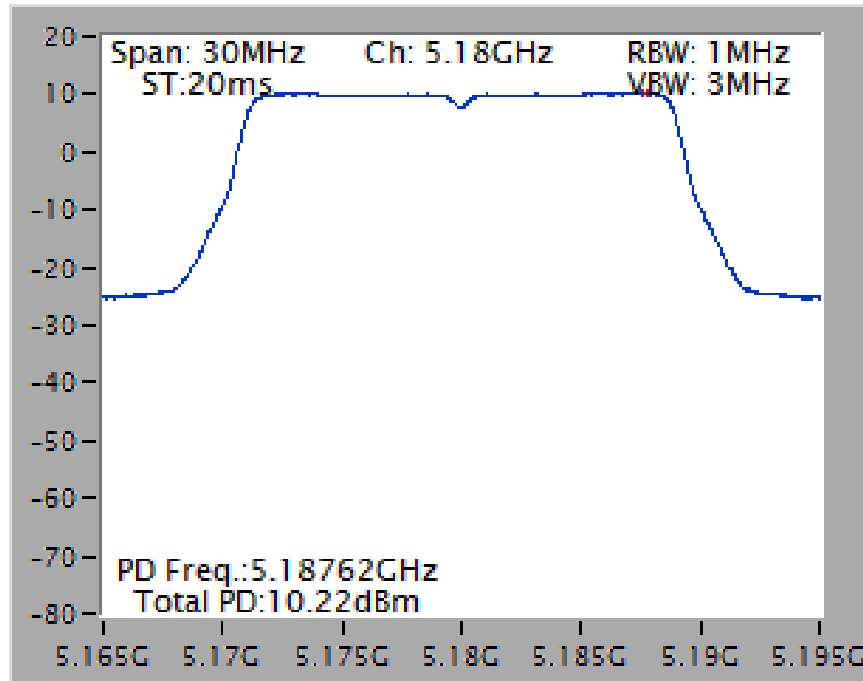
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz



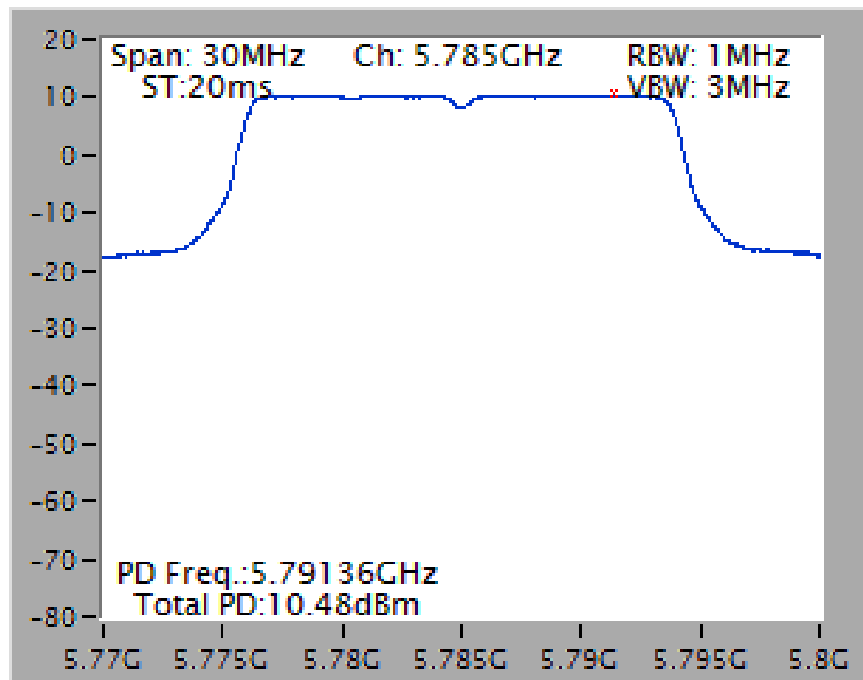
For indoor use

Mode 5 (Set 8 Patch antenna / 3.26dBi / 2TX)

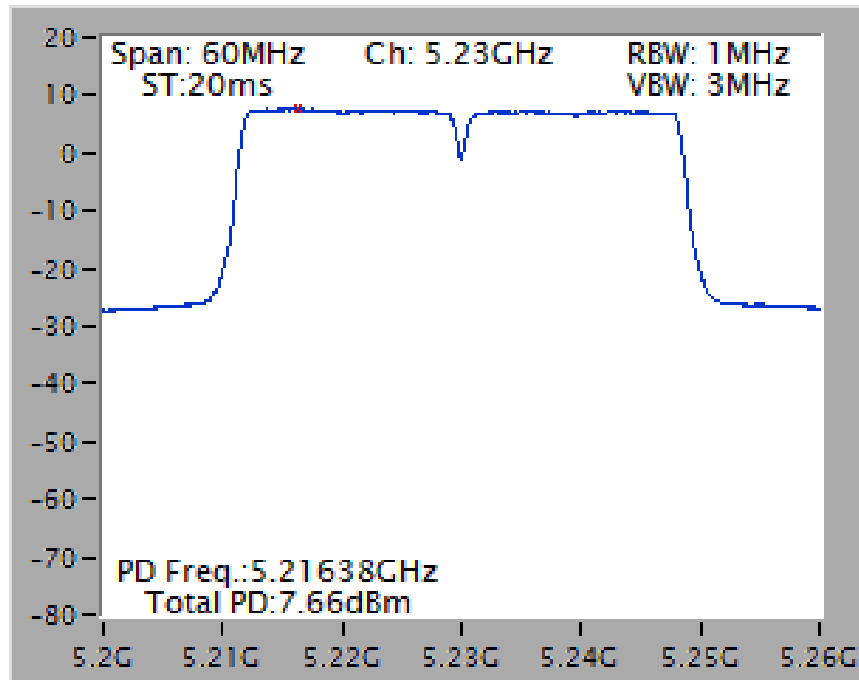
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5180 MHz



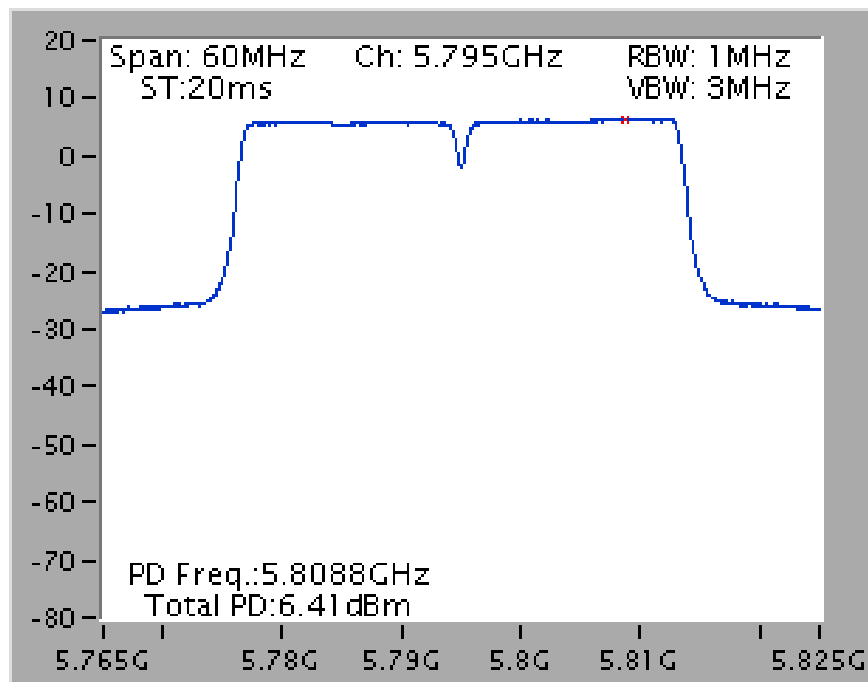
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5785 MHz



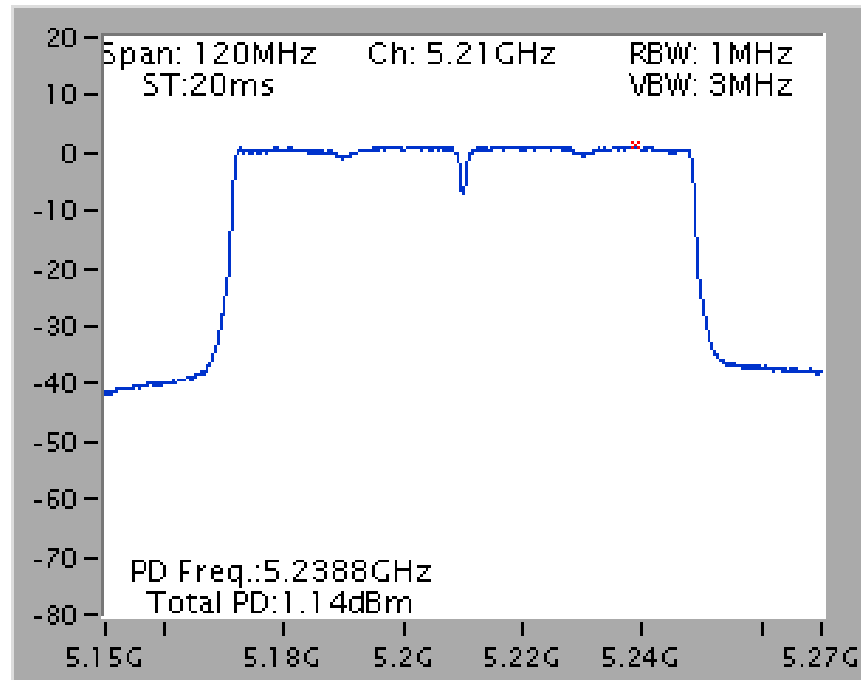
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5230 MHz



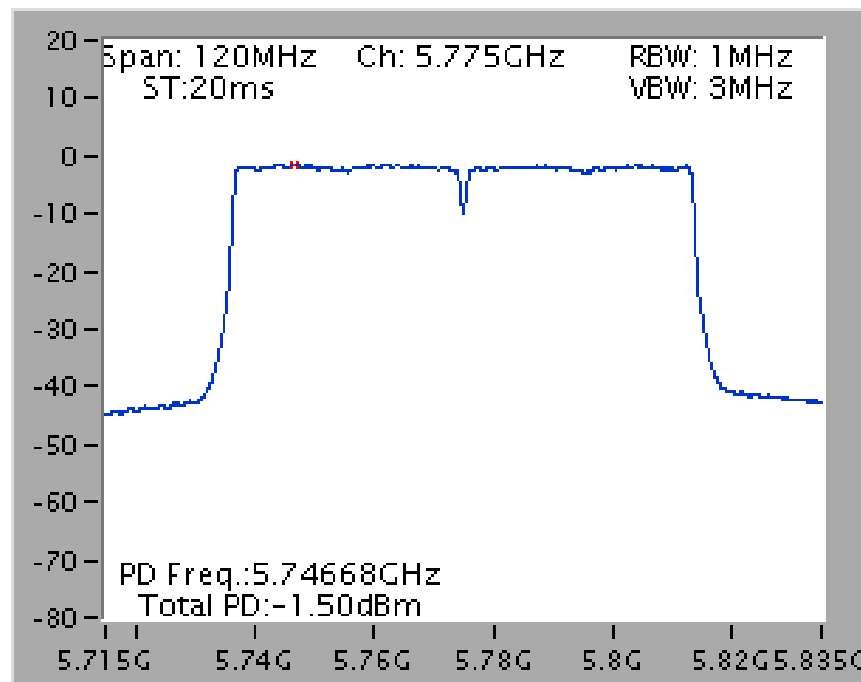
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz

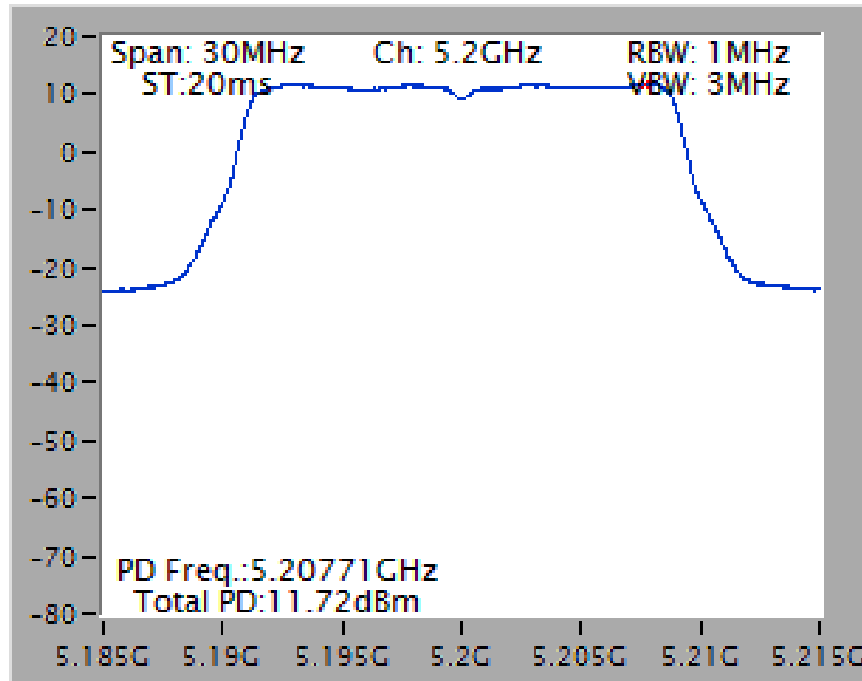


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5775 MHz

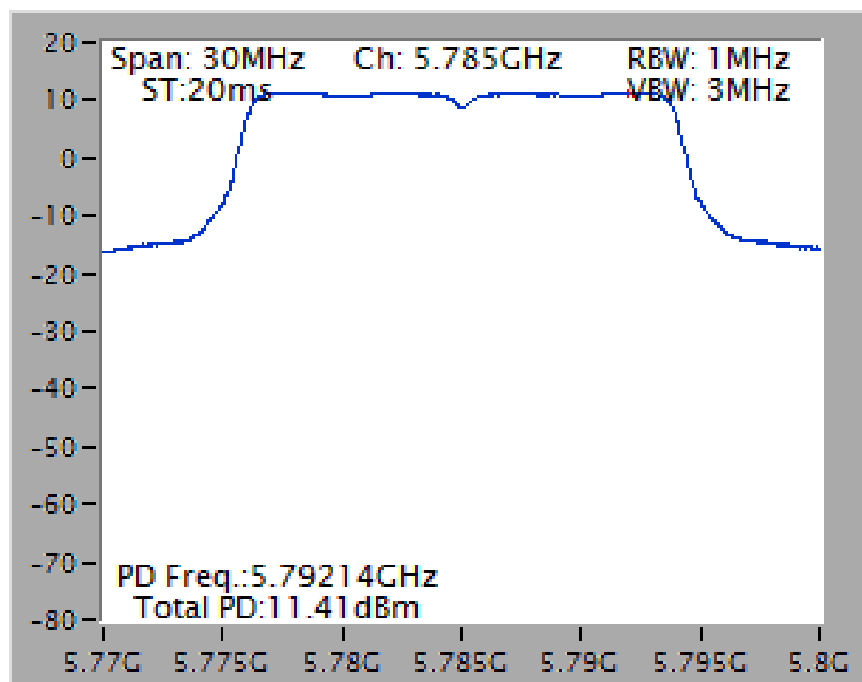


Mode 5 (Set 8 Patch antenna / 3.26dBi / 3TX)

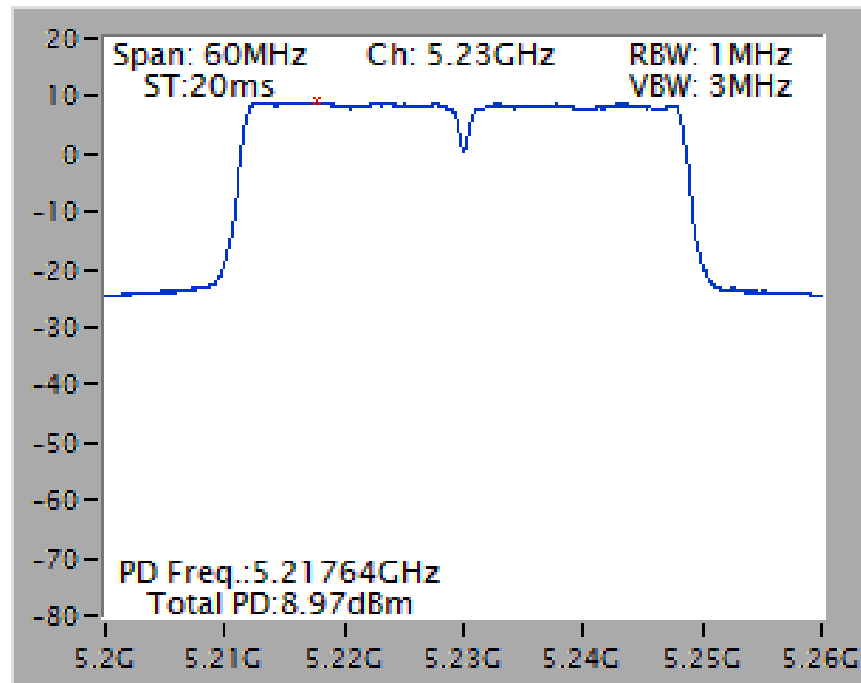
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /
5200 MHz



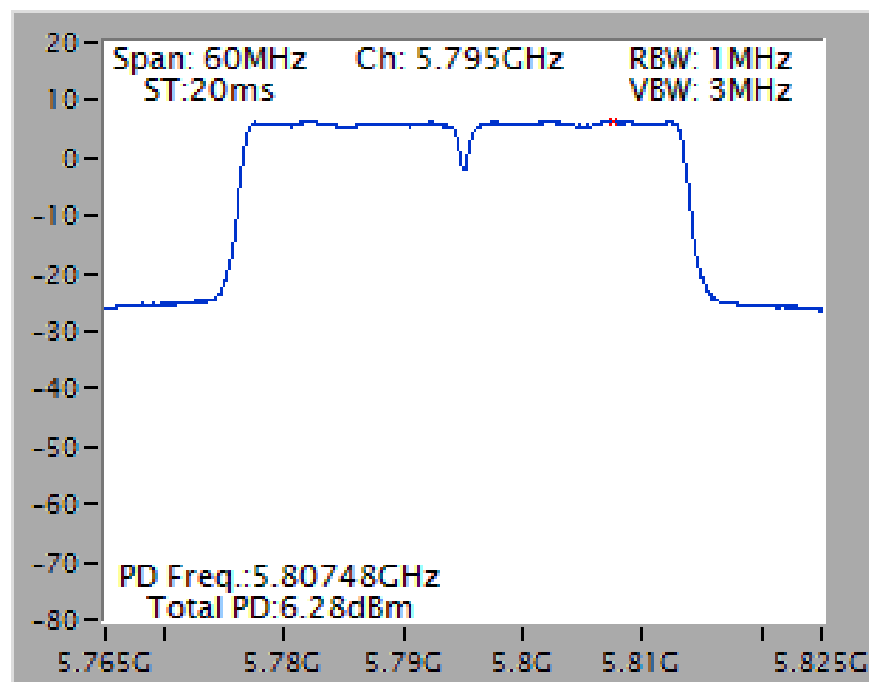
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /
5785 MHz



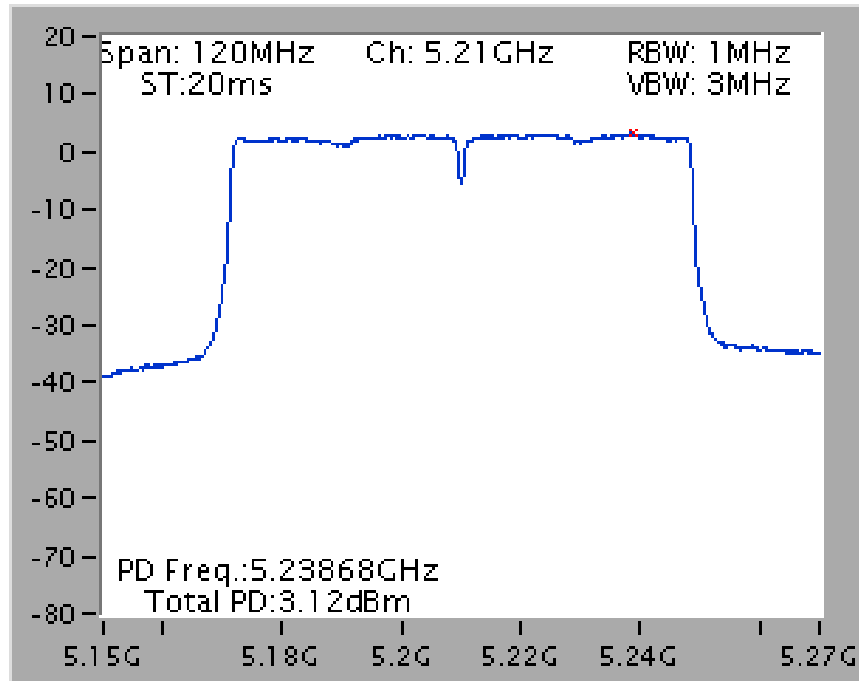
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5230 MHz



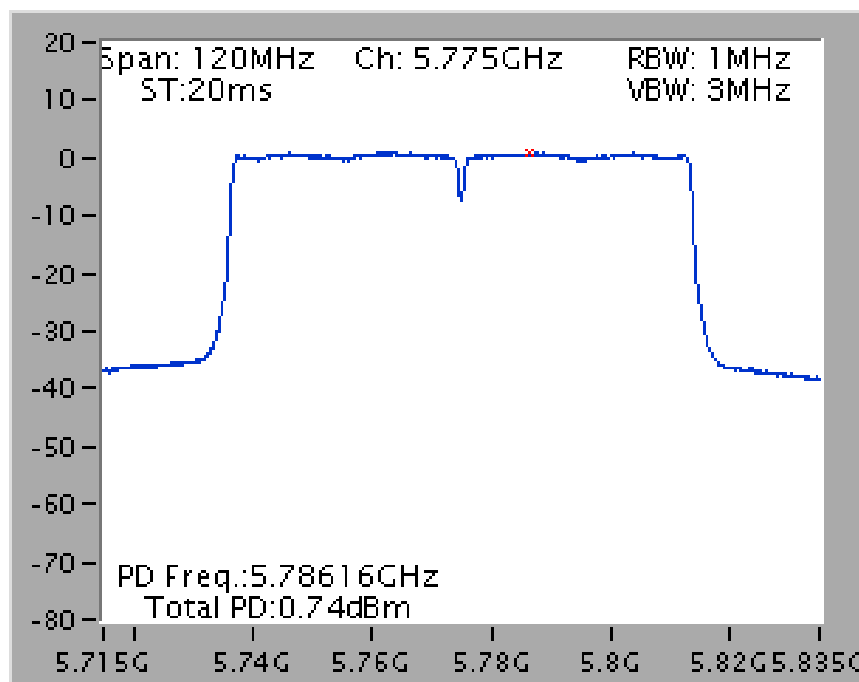
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5210 MHz

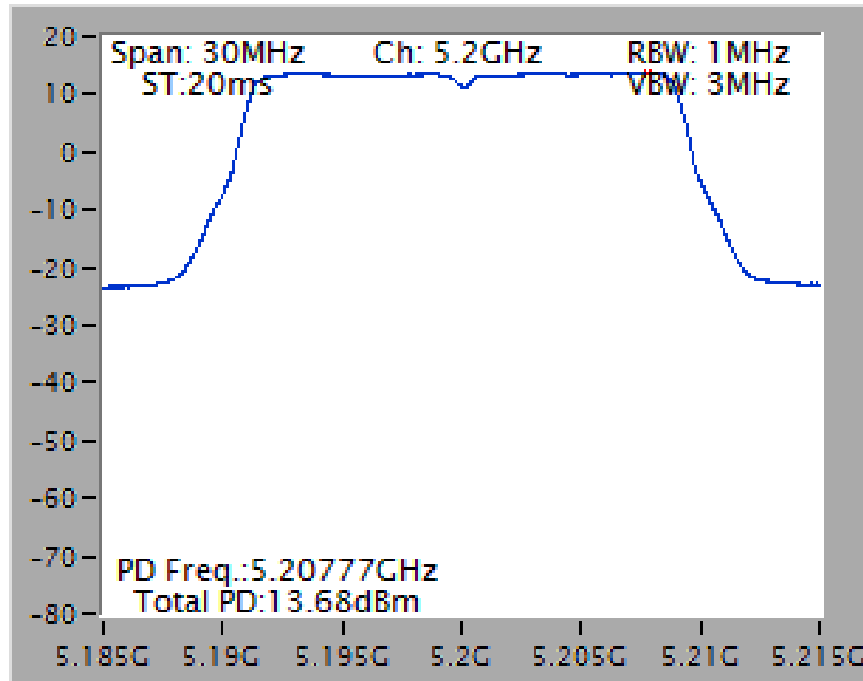


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5775 MHz

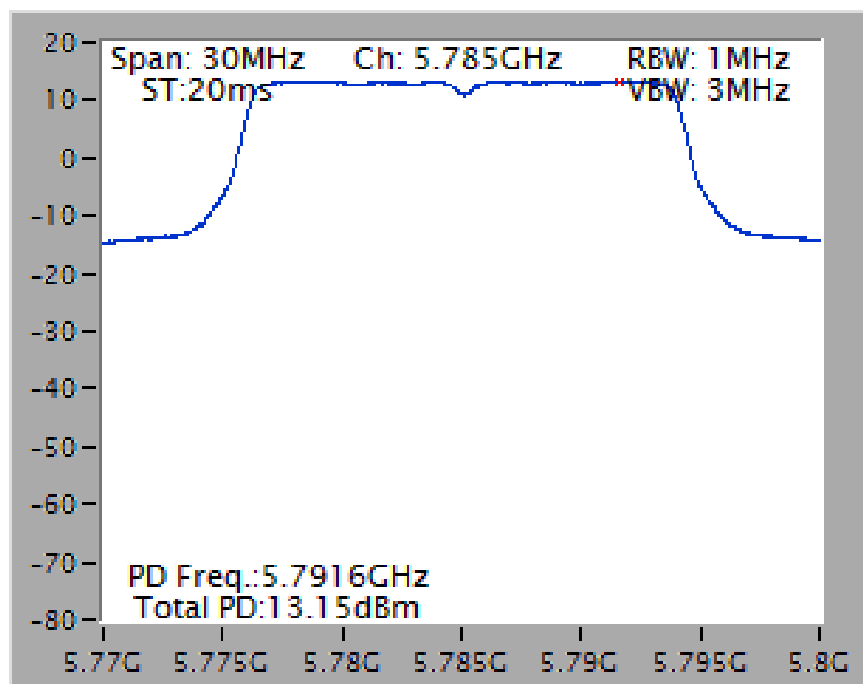


Mode 5 (Set 8 Patch antenna / 3.26dBi / 4TX)

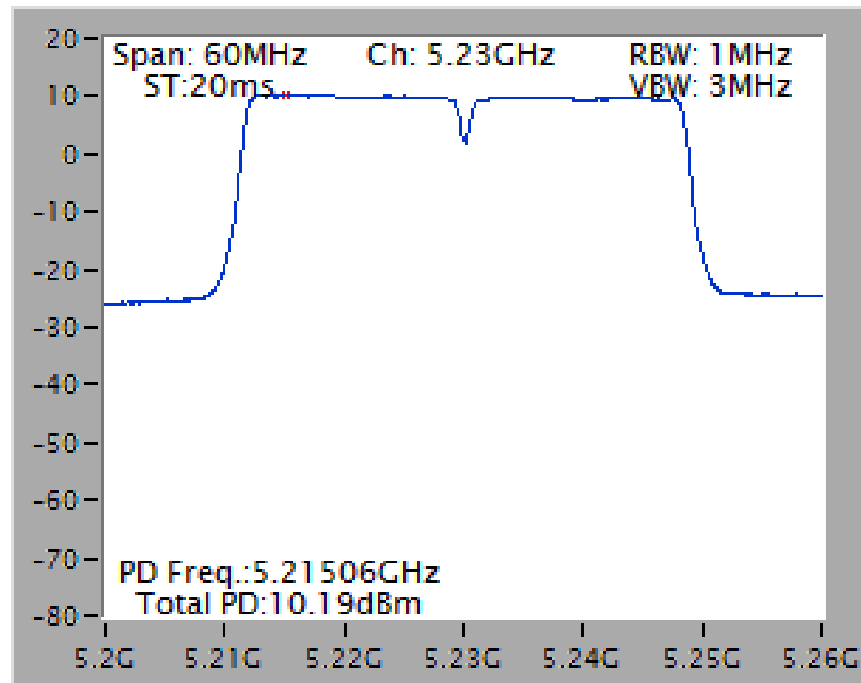
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5200 MHz



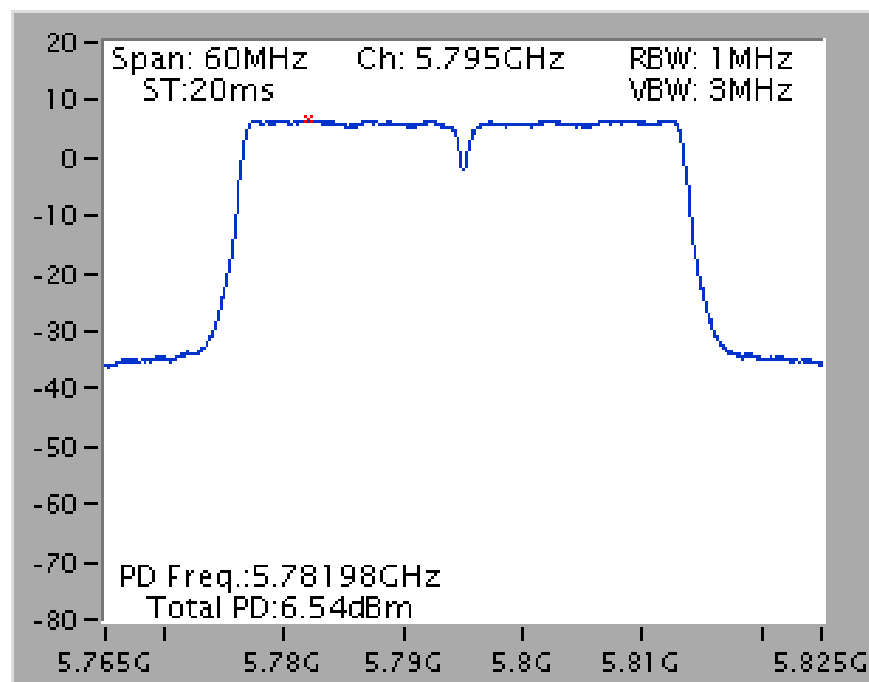
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



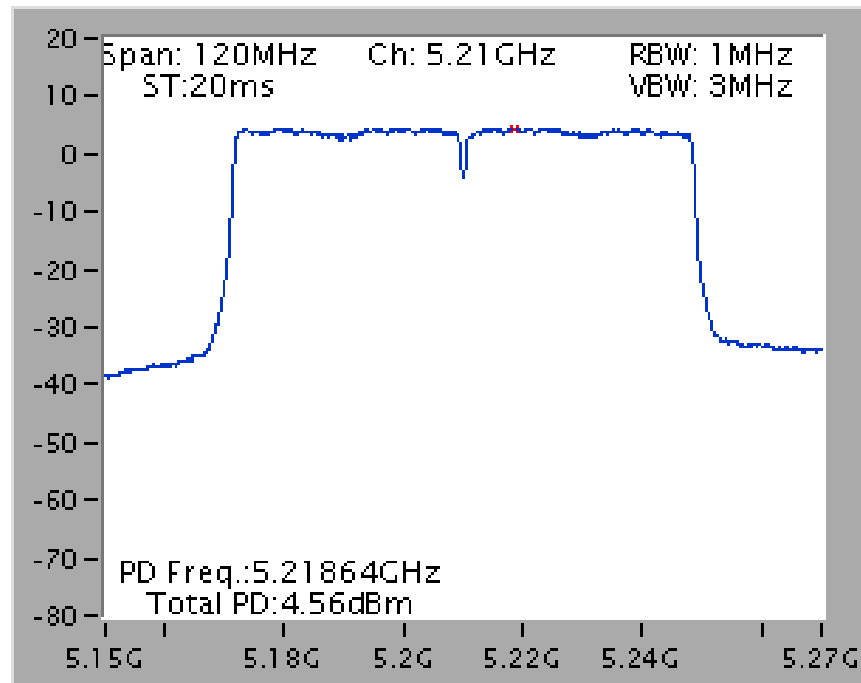
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5230 MHz



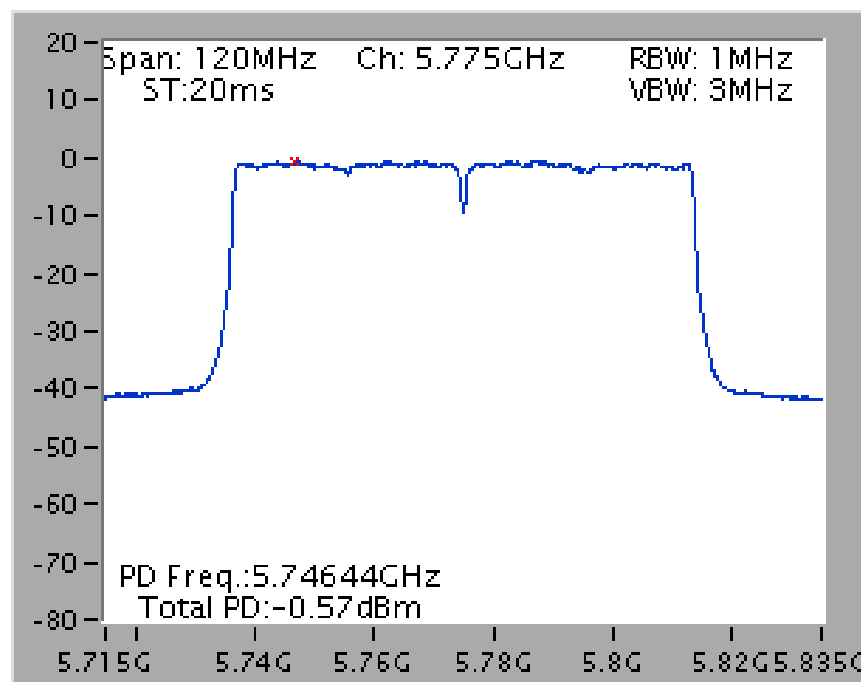
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5210 MHz



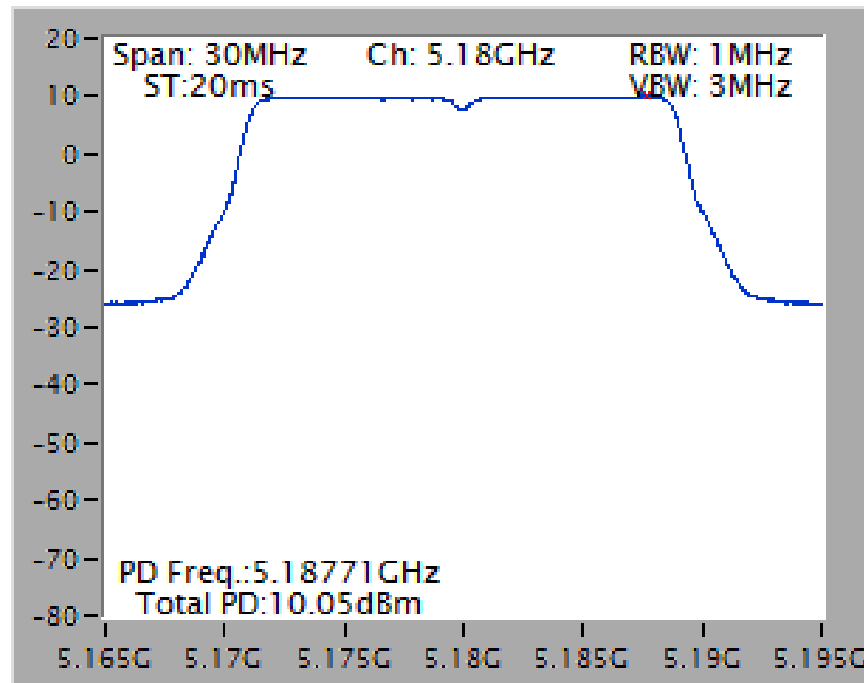
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz



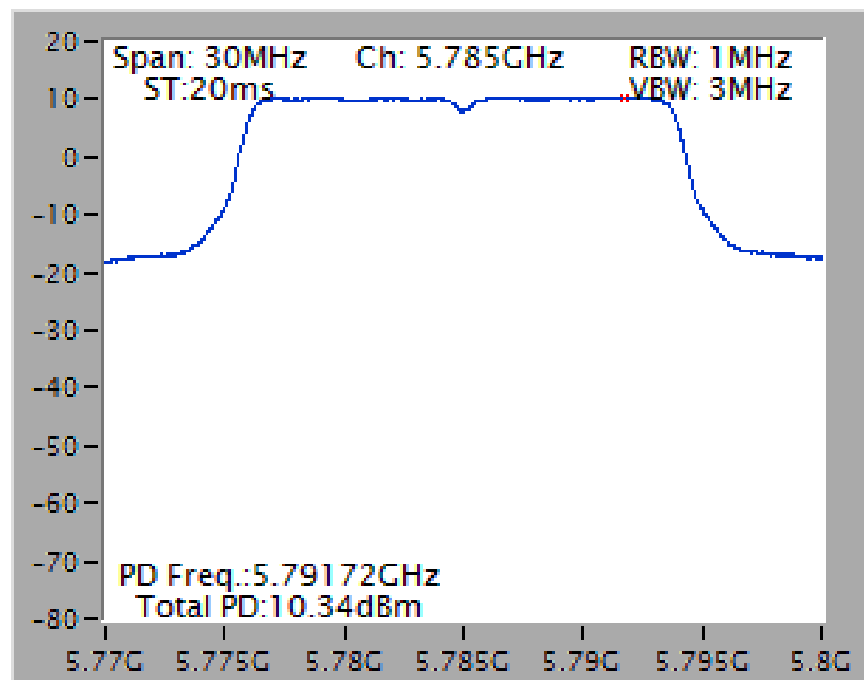
For indoor / outdoor use

Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi / 2TX)

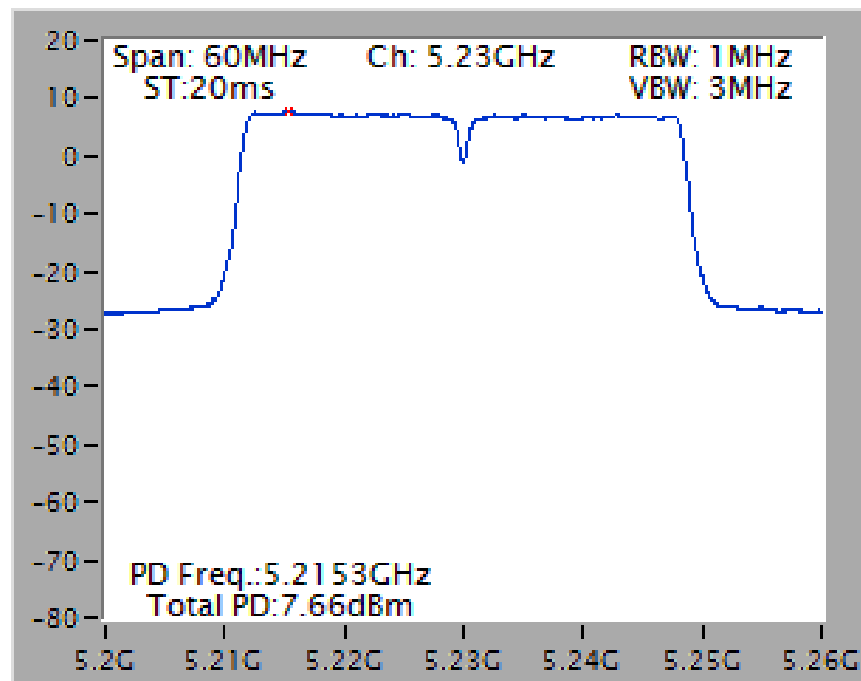
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5180 MHz



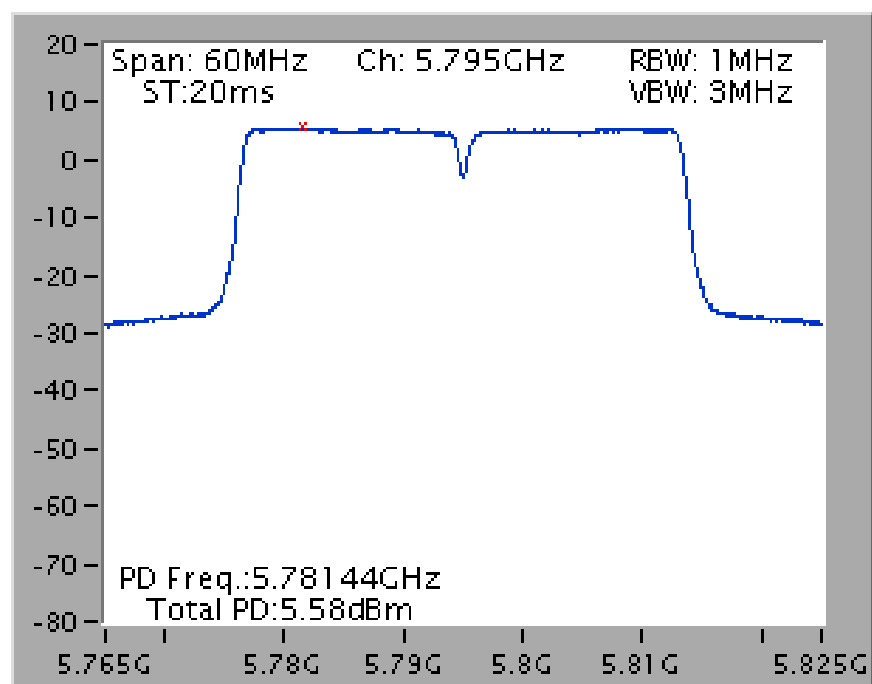
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5785 MHz



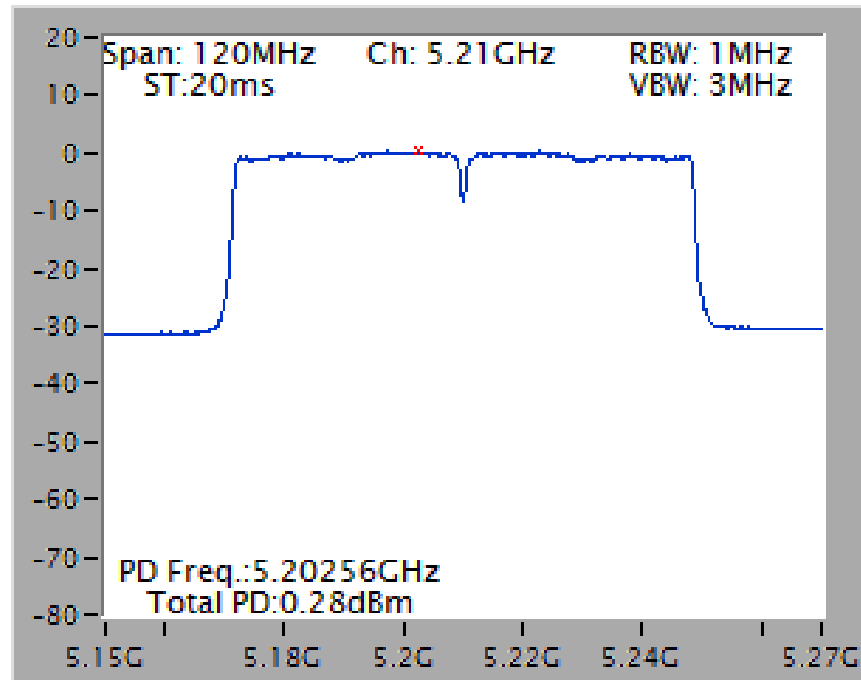
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5230 MHz



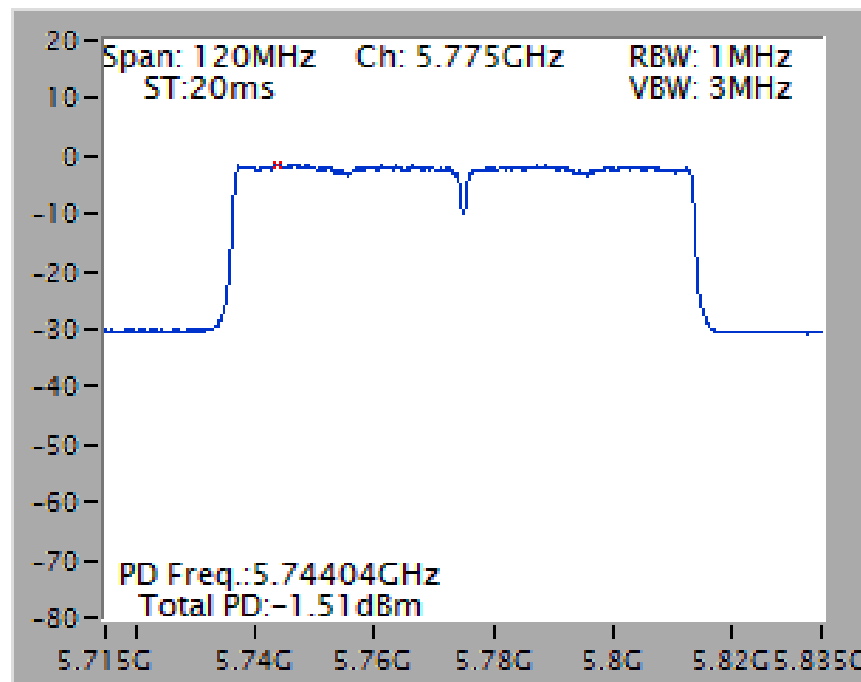
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz

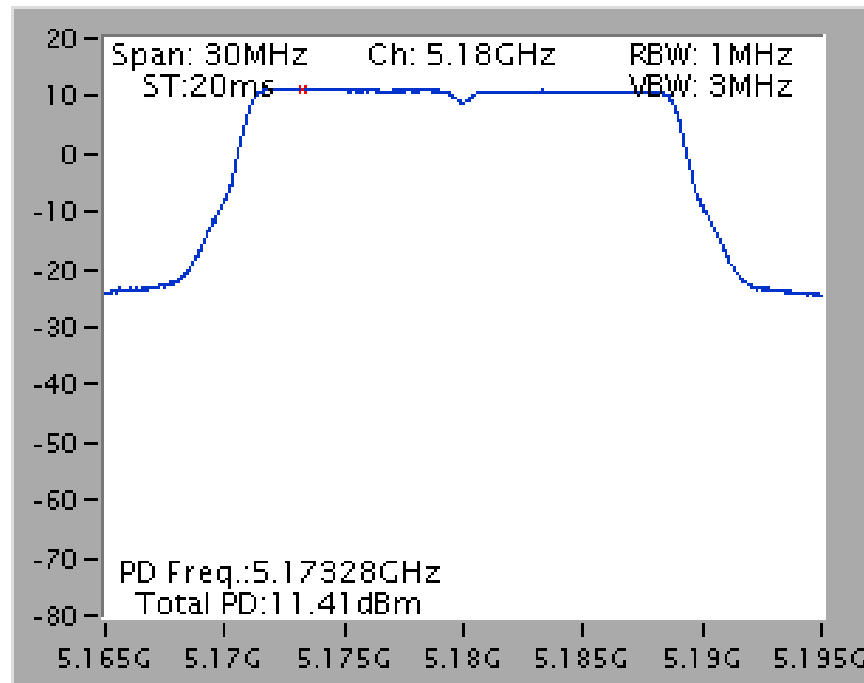


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5775 MHz

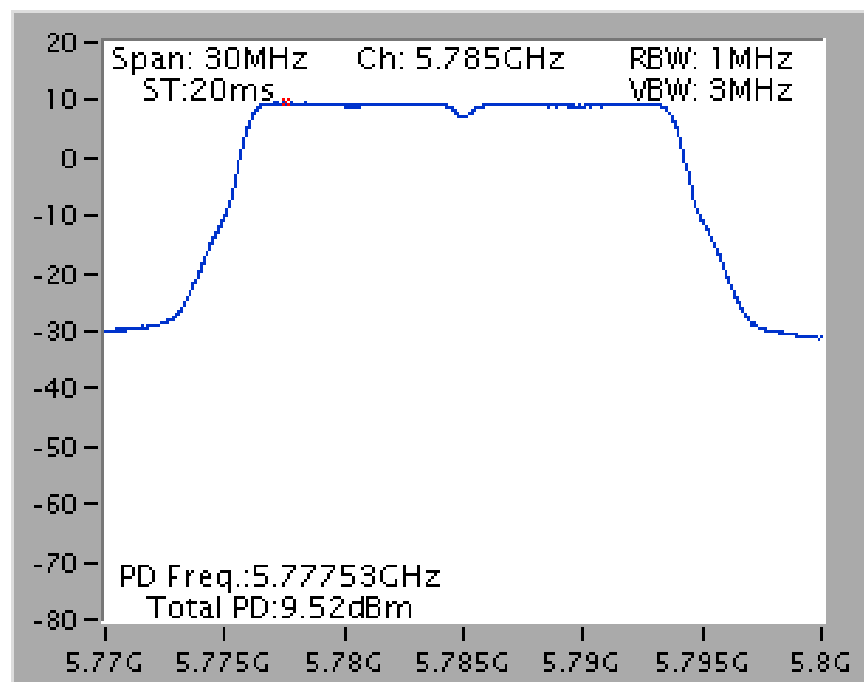


Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi, Chain 3: 6.6dBi / 3TX)

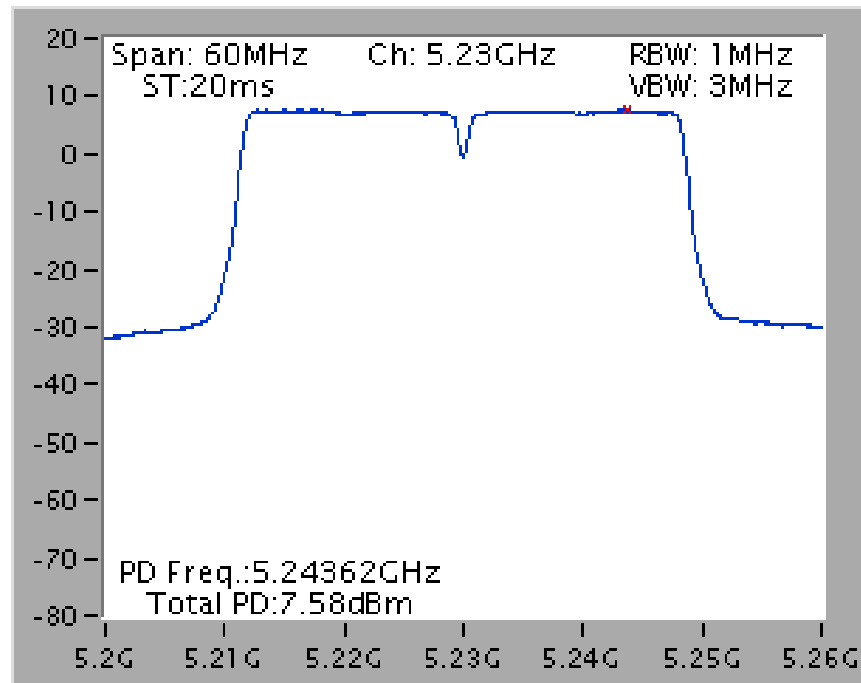
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /
5180 MHz



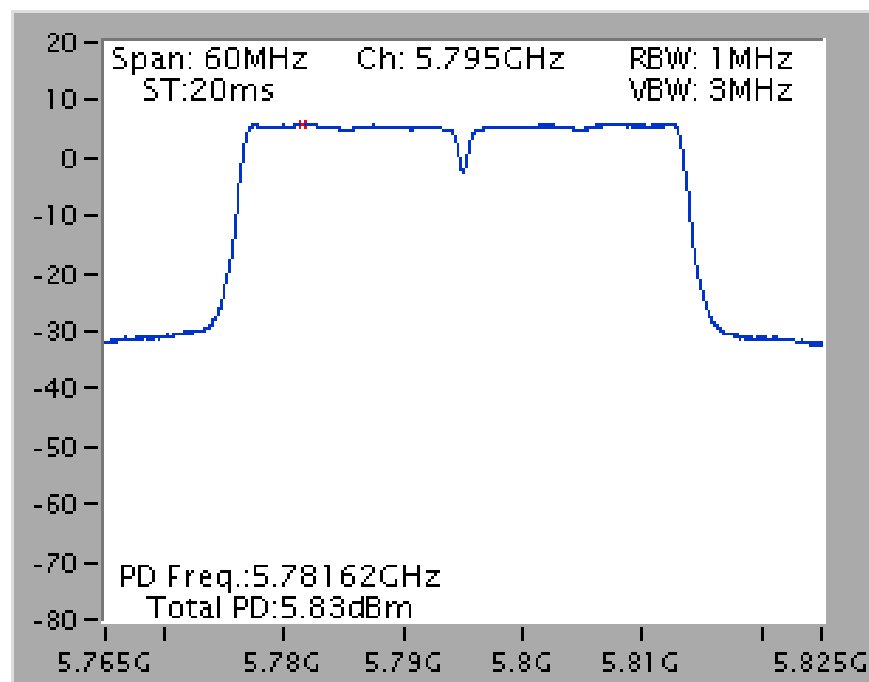
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /
5785 MHz



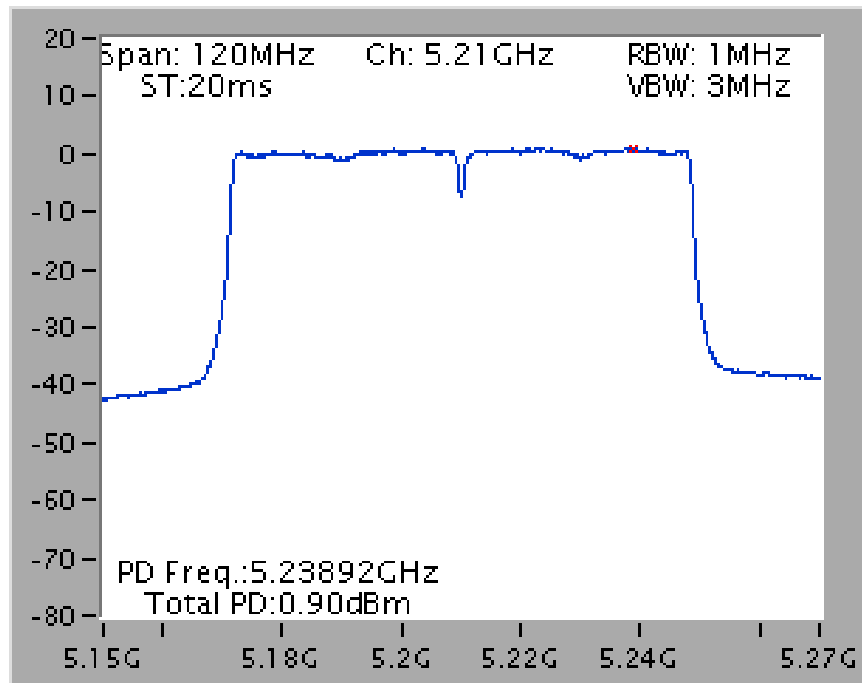
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5230 MHz



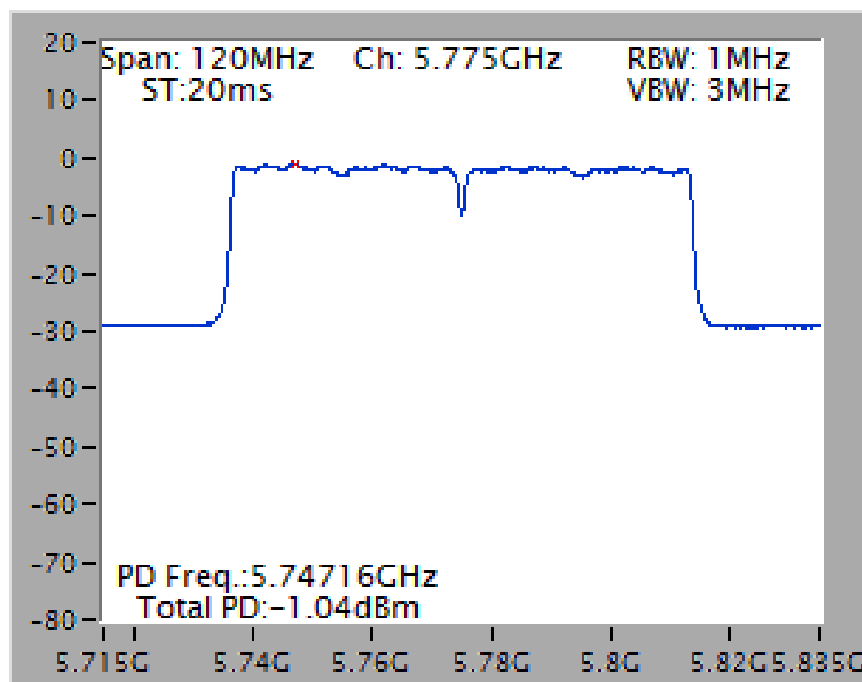
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5795 MHz



**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5210 MHz**

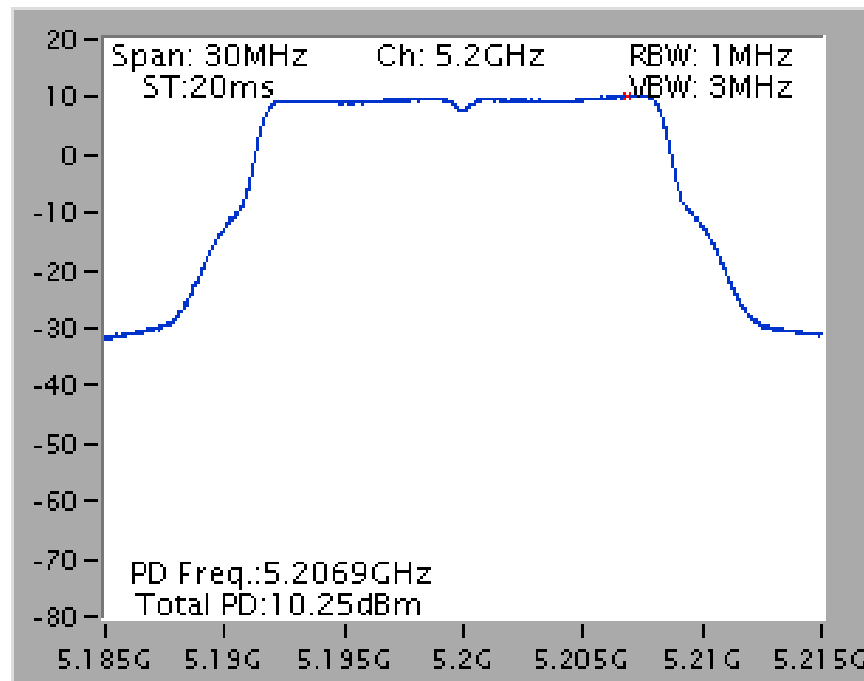


**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5775 MHz**

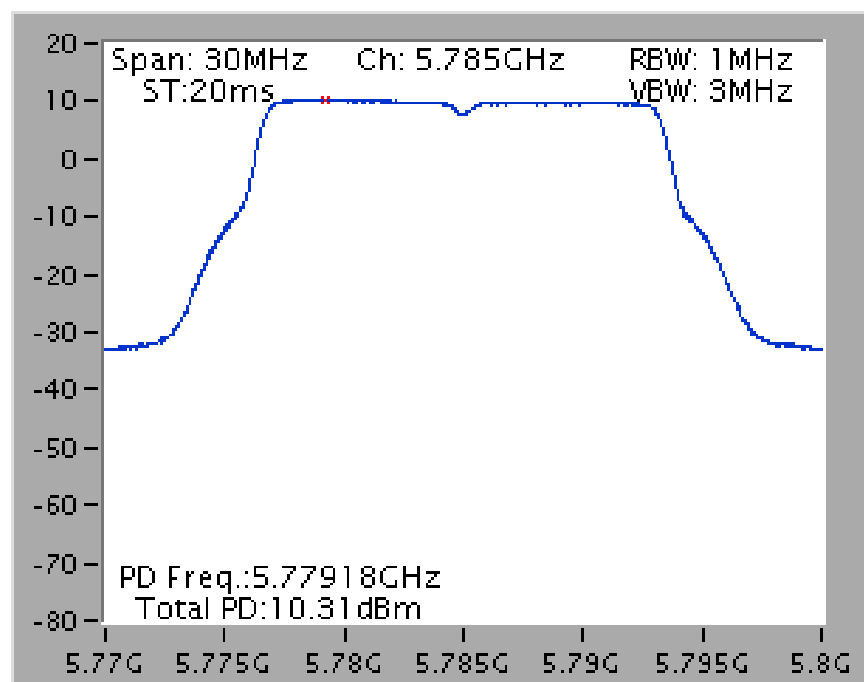


Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi, Chain 3: 6.6dBi, Chain 4: 5.9dBi / 4TX)

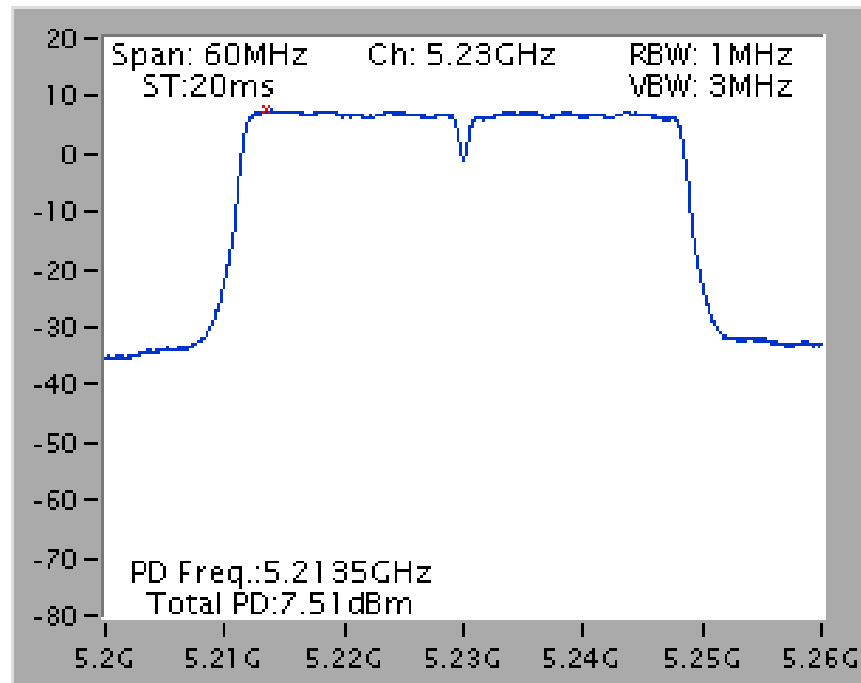
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5200 MHz



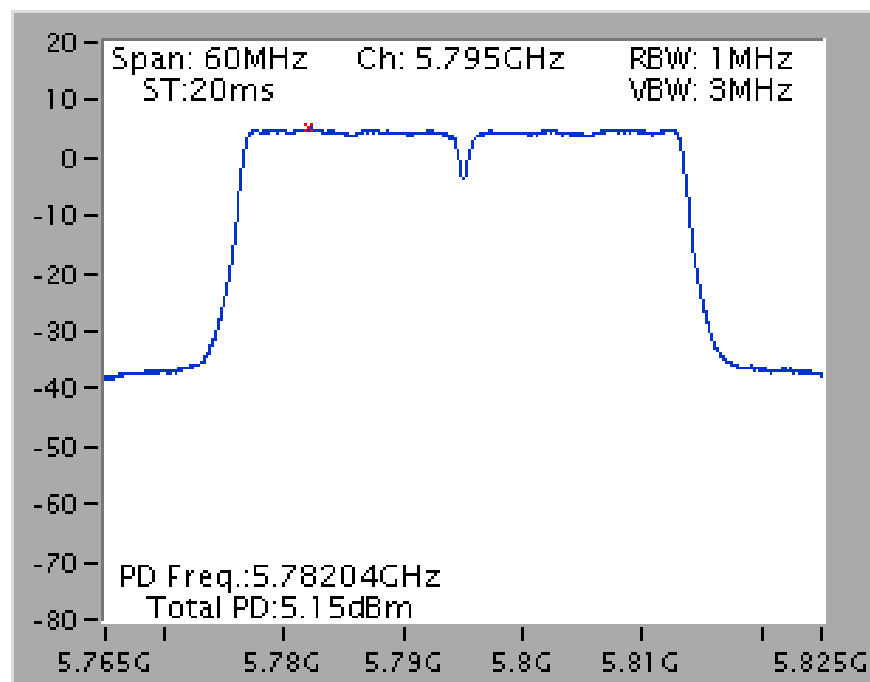
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



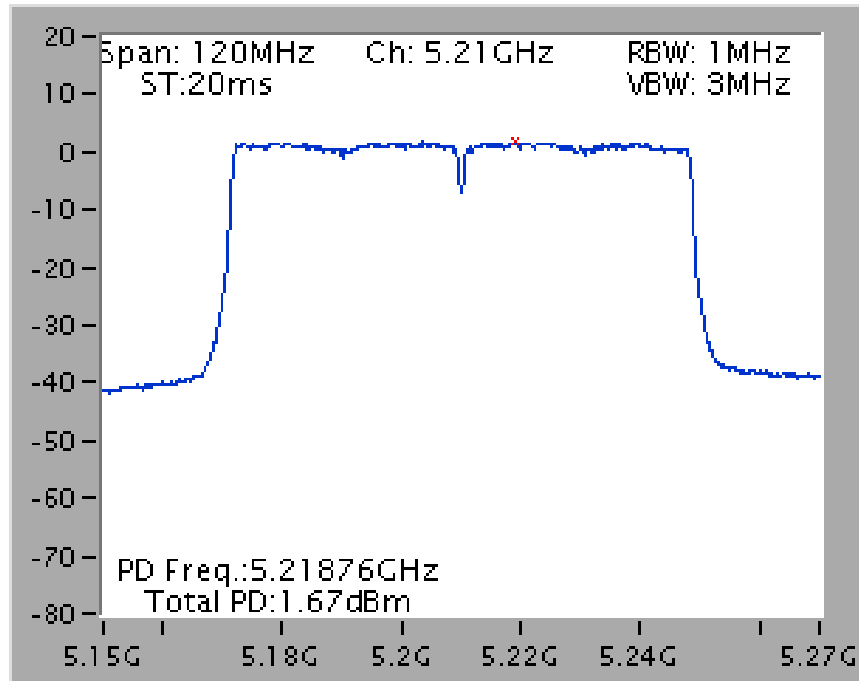
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5230 MHz



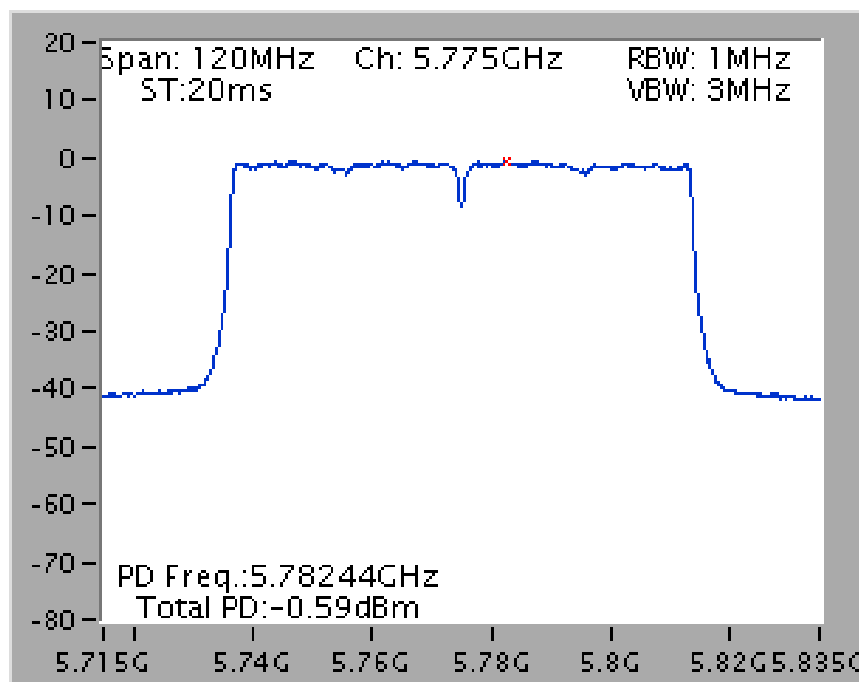
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5210 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz



4.6. Radiated Emissions Measurement

4.6.1. Limit

For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

In addition, In case the emission fall within the restricted band specified on 2.7, then the 2.8 limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/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

4.6.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	40 GHz
RBW / VBW (Emission in restricted band)	1 MHz / 3MHz for Peak, 1 MHz / 1/T for Average
RBW / VBW (Emission in non-restricted band)	1MHz / 3MHz for peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RBW 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RBW 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RBW 120kHz for QP

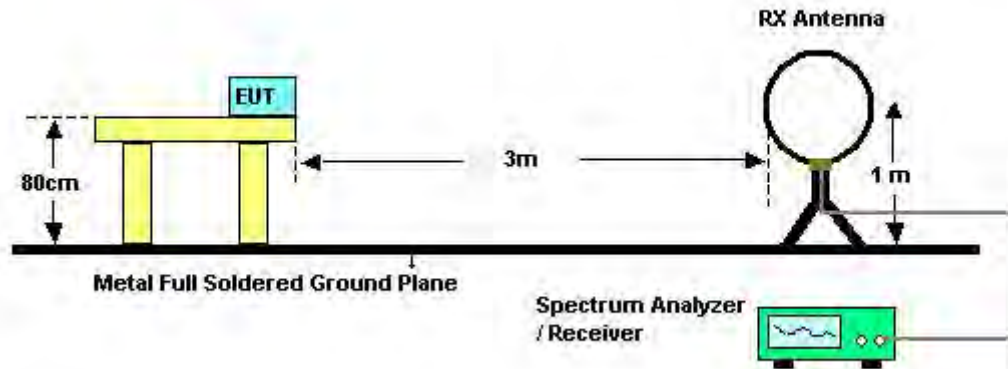
4.6.3. Test Procedures

1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 1m & 3m far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and 3MHz RBW for peak reading. Then 1MHz RBW and 1/T VBW for average reading in spectrum analyzer.
7. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
8. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
9. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

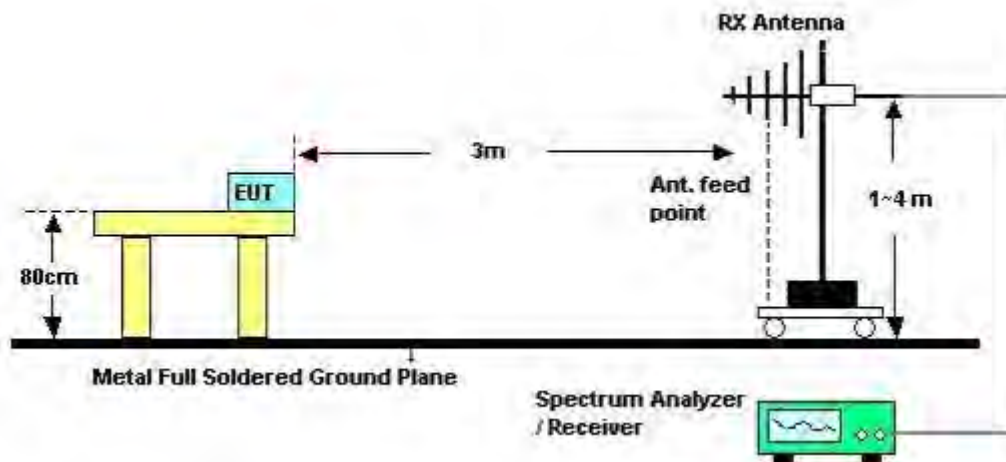
4.6.4. Test Setup Layout

For Unintentional and intentional:

9kHz ~30MHz

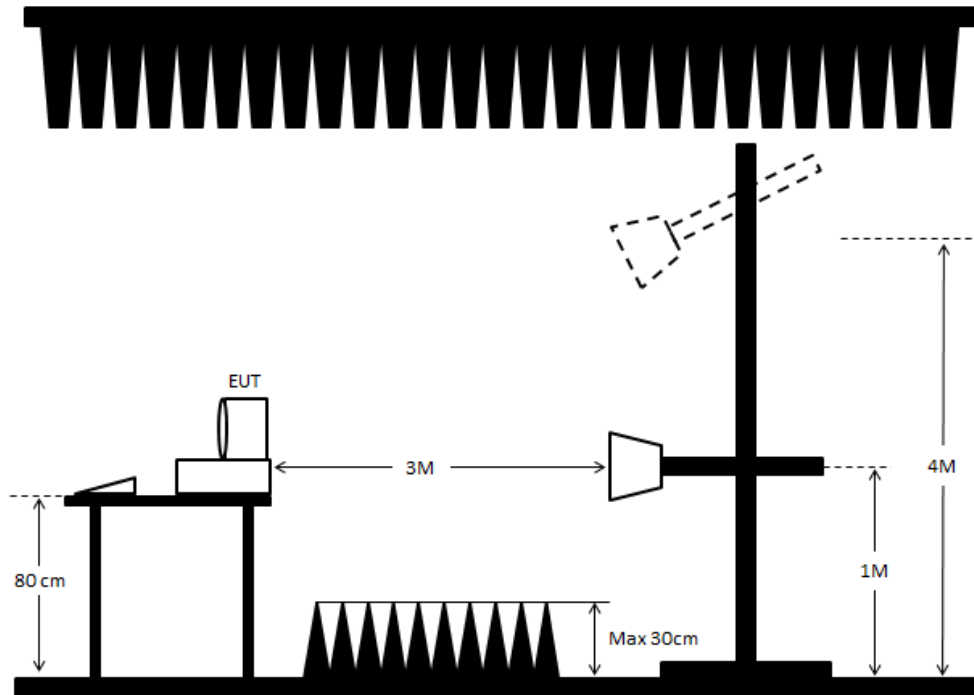


30MHz~1GHz

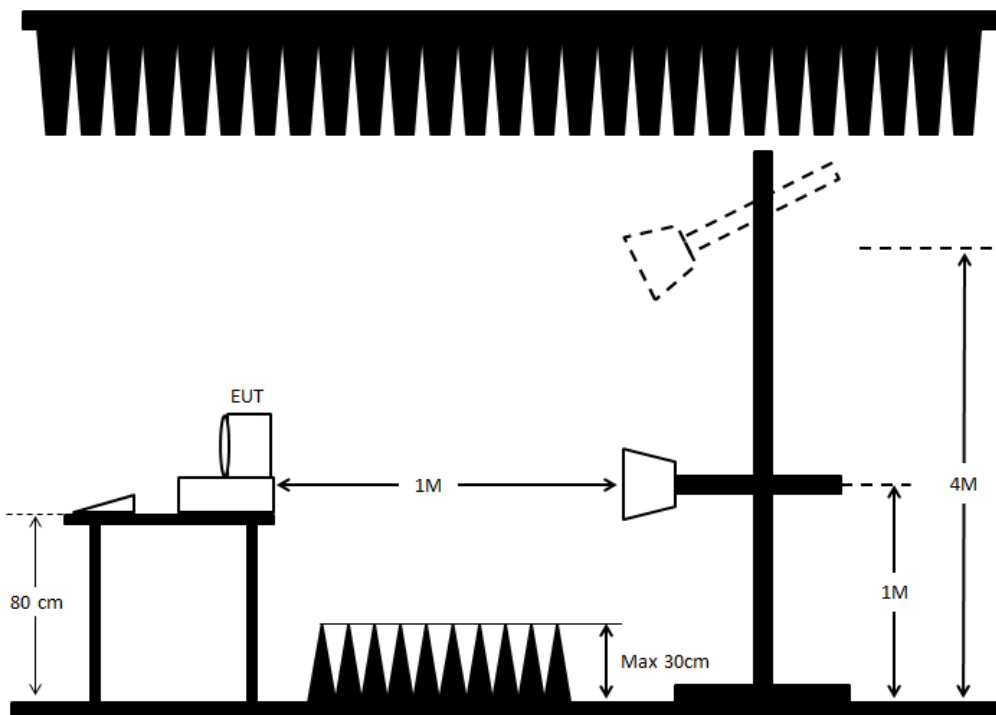


For Unintentional 1GHz~5th – CRX

1,000~18,000 MHz

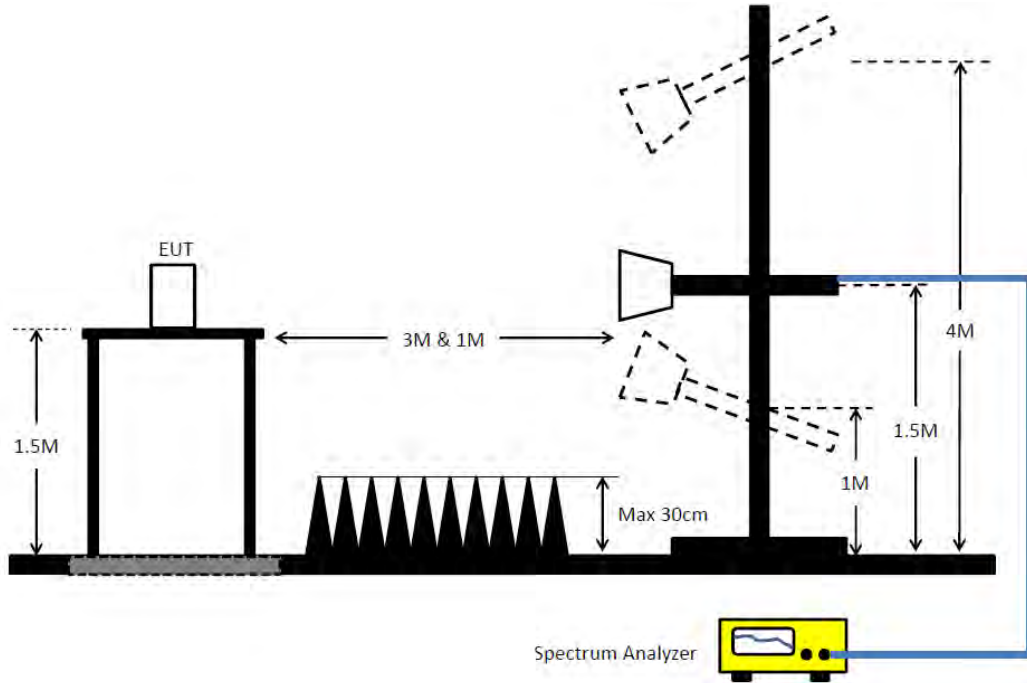


18,000~30,000 MHz



For Intentional 1GHz~10th - CTX

Above 1GHz



4.6.5. Test Deviation

There is no deviation with the original standard.

4.6.6. EUT Operation during Test

For Non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

For beamforming mode:

The EUT was programmed to be in beamforming transmitting mode.

4.6.7. Results of Radiated Emissions (9kHz~30MHz: Intentional and Unintentional)

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	Intentional – CTX
Test Date	Dec. 13, 2015		

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	Unintentional – CRX
Test Date	Jul. 07, 2017		

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

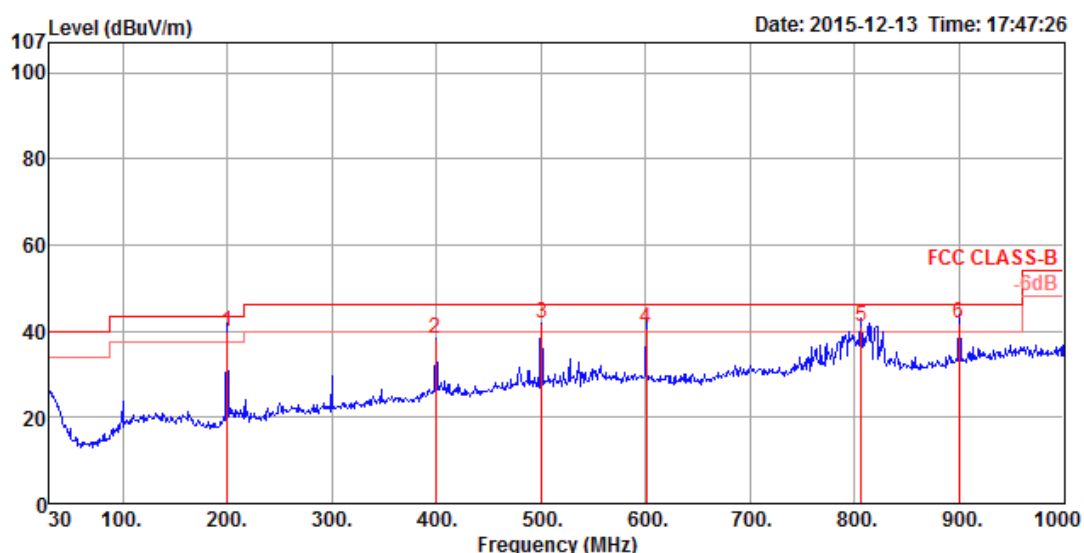
Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

4.6.8. Results of Radiated Emissions (30MHz~1GHz: Intentional and Unintentional)

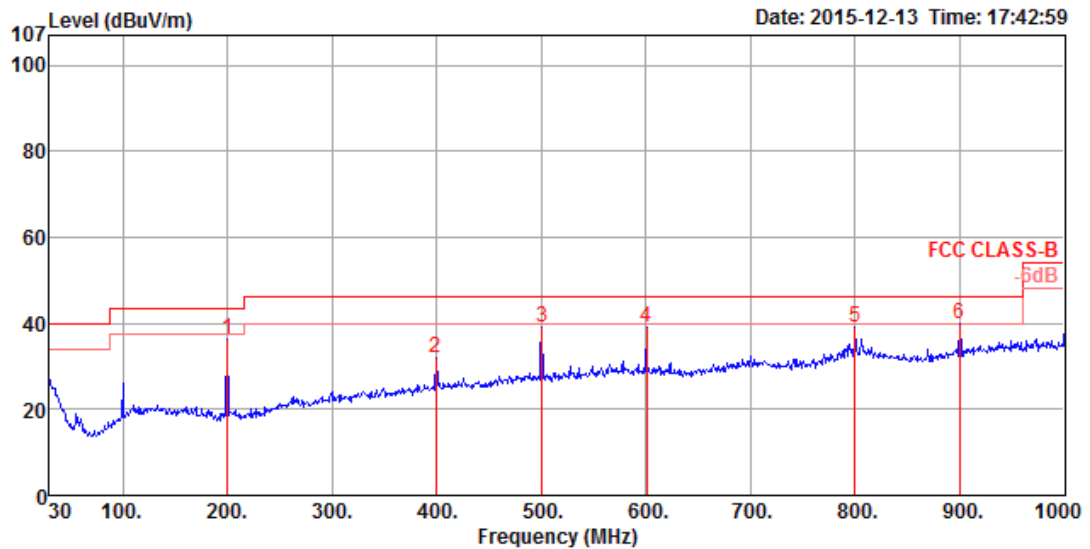
Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	Intentional - CTX
Test Mode	Mode 1		

Horizontal



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna		T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	Loss	Factor	Factor	Pol/Phase	deg	cm	
1	199.75	39.85	43.50	-3.65	60.30	1.70	32.55	10.40	HORIZONTAL	180	125	QP
2	399.57	38.31	46.00	-7.69	52.08	2.30	32.54	16.47	HORIZONTAL	219	100	Peak
3	500.45	41.68	46.00	-4.32	53.75	2.61	32.61	17.93	HORIZONTAL	53	250	Peak
4	600.36	40.64	46.00	-5.36	51.50	2.83	32.69	19.00	HORIZONTAL	15	200	QP
5	806.00	40.93	46.00	-5.07	49.30	3.24	32.37	20.76	HORIZONTAL	161	125	QP
6	900.09	41.69	46.00	-4.31	48.58	3.37	31.86	21.60	HORIZONTAL	177	150	QP

Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamplifier Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	199.75	36.37	43.50	-7.13	56.82	1.70	32.55	10.40	VERTICAL	359	125	Peak
2	399.57	31.91	46.00	-14.09	45.68	2.30	32.54	16.47	VERTICAL	201	100	Peak
3	500.45	39.22	46.00	-6.78	51.29	2.61	32.61	17.93	VERTICAL	86	100	Peak
4	600.36	39.08	46.00	-6.92	49.94	2.83	32.69	19.00	VERTICAL	60	100	Peak
5	800.18	39.22	46.00	-6.78	47.68	3.23	32.39	20.70	VERTICAL	156	150	Peak
6	900.09	40.02	46.00	-5.98	46.91	3.37	31.86	21.60	VERTICAL	188	150	Peak

Note:

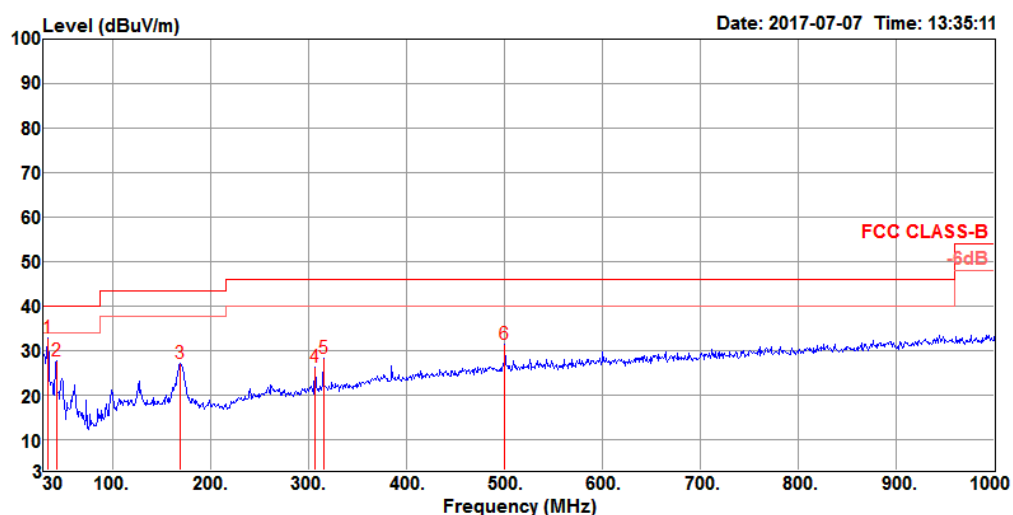
The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamplifier Factor = Level.

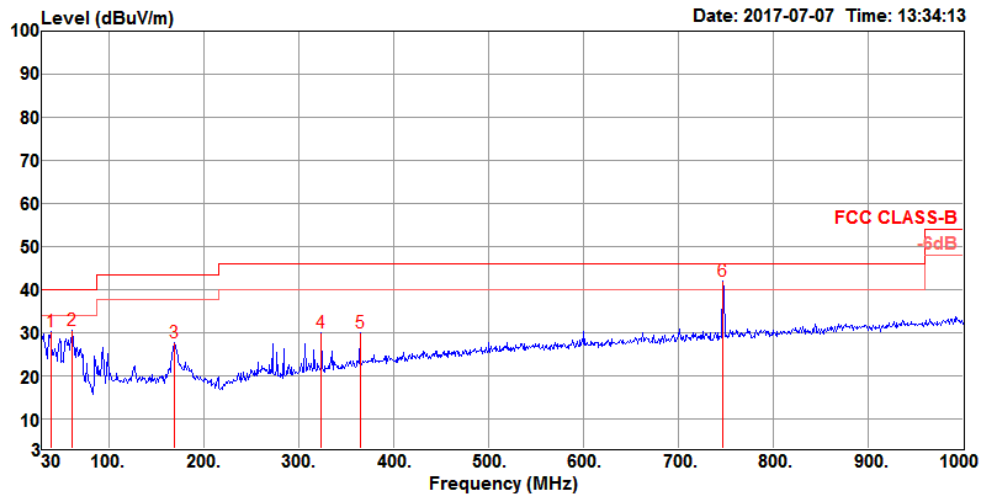
Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	Unintentional – CRX
Test Mode	Mode 1		

Horizontal



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	Limit	Level	Loss	Factor	Factor	cm	deg	
1	33.88	32.71	40.00	-7.29	40.89	0.94	23.41	32.53	100	93	Peak
2	42.61	27.54	40.00	-12.46	40.65	1.08	18.32	32.51	150	262	Peak
3	168.71	27.09	43.50	-16.41	41.21	2.23	16.16	32.51	150	255	Peak
4	306.45	26.06	46.00	-19.94	35.55	3.05	19.90	32.44	250	68	Peak
5	315.18	28.16	46.00	-17.84	37.33	3.09	20.18	32.44	200	360	Peak
6	500.45	31.23	46.00	-14.77	35.94	3.96	23.82	32.49	100	310	Peak

Vertical



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	Limit	Level	Loss	Factor	Factor	cm	deg	
1	38.73	30.19	40.00	-9.81	41.17	1.03	20.51	32.52	100	76	Peak
2	62.01	30.55	40.00	-9.45	49.24	1.31	12.52	32.52	150	334	Peak
3	169.68	27.67	43.50	-15.83	41.81	2.24	16.13	32.51	100	144	Peak
4	323.91	29.81	46.00	-16.19	38.66	3.14	20.45	32.44	150	15	Peak
5	364.65	29.92	46.00	-16.08	37.51	3.34	21.52	32.45	200	139	Peak
6	746.83	41.83	46.00	-4.17	43.31	4.86	26.08	32.42	100	298	Peak

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

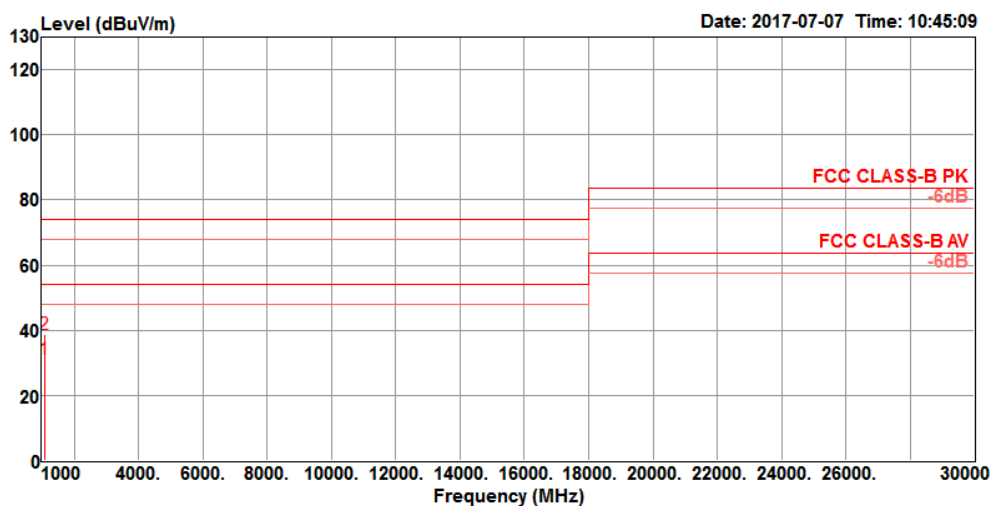
Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

4.6.9. Results for Radiated Emissions (above 1GHz: Unintentional 1GHz~5th)

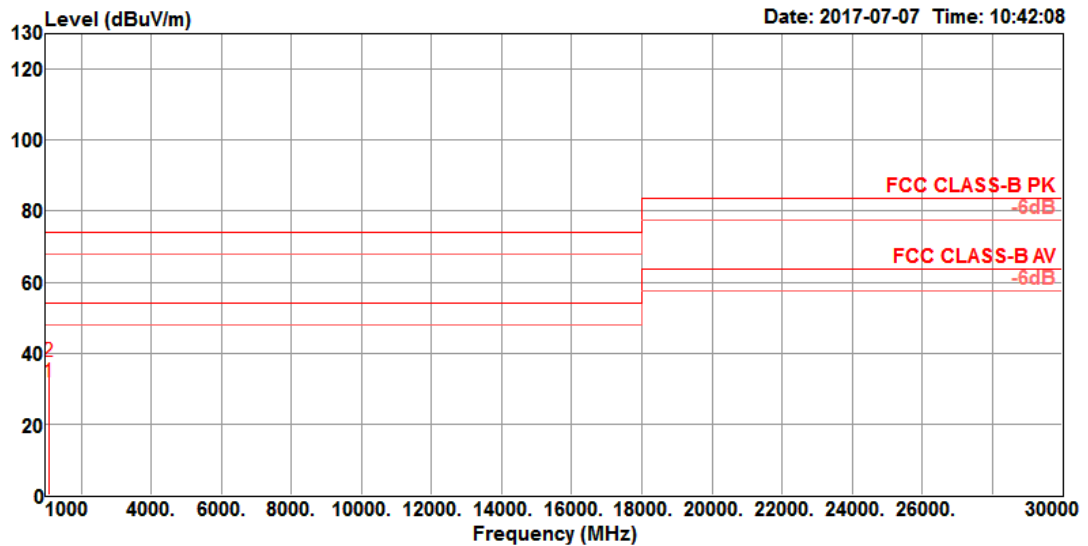
Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	Unintentional – CRX
Test Mode	Mode 1		

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	1100.00	30.92	54.00	-23.08	38.69	3.43	24.64	35.84	150	264 Average	HORIZONTAL
2	1100.00	38.61	74.00	-35.39	46.38	3.43	24.64	35.84	150	264 Peak	HORIZONTAL

Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	1100.00	31.83	54.00	-22.17	39.60	3.43	24.64	35.84	147	44 Average	VERTICAL
2	1100.00	37.49	74.00	-36.51	45.26	3.43	24.64	35.84	147	44 Peak	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

4.6.10. Results for Radiated Emissions (above 1GHz: Intentional 1GHz~10th)

For Non-Beamforming Mode

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	15539.63	46.24	54.00	-7.76	29.22	12.58	38.14	33.70	142	160	Average	HORIZONTAL
2	15540.55	59.91	74.00	-14.09	42.89	12.58	38.14	33.70	142	160	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	15539.48	46.47	54.00	-7.53	29.45	12.58	38.14	33.70	170	123	Average	VERTICAL
2	15539.85	59.22	74.00	-14.78	42.20	12.58	38.14	33.70	170	123	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	15591.76	60.35	74.00	-13.65	43.46	12.58	38.06	33.75	166	193	Peak	HORIZONTAL
2	15599.40	47.40	54.00	-6.60	30.57	12.58	38.03	33.78	166	193	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	15597.76	60.08	74.00	-13.92	43.22	12.58	38.03	33.75	169	252	Peak	VERTICAL
2	15608.72	47.73	54.00	-6.27	30.90	12.58	38.03	33.78	169	252	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15718.79	46.81	54.00	-7.19	30.28	12.57	37.84	33.88	174	277	Average
2	15720.52	60.25	74.00	-13.75	43.72	12.57	37.84	33.88	174	277	Peak

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15719.29	60.68	74.00	-13.32	44.15	12.57	37.84	33.88	171	132	Peak	VERTICAL
2	15722.20	46.96	54.00	-7.04	30.43	12.57	37.84	33.88	171	132	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11487.66	42.96	54.00	-11.04	26.74	10.71	38.88	33.37	166	310	Average	HORIZONTAL
2	11492.22	56.23	74.00	-17.77	40.01	10.71	38.88	33.37	166	310	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11490.86	56.67	74.00	-17.33	40.45	10.71	38.88	33.37	169	280	Peak	VERTICAL
2	11491.16	42.90	54.00	-11.10	26.68	10.71	38.88	33.37	169	280	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11569.74	56.94	74.00	-17.06	40.63	10.75	38.94	33.38	160	256	Peak
2	11570.06	43.01	54.00	-10.99	26.70	10.76	38.94	33.39	160	256	Average

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11567.99	43.38	54.00	-10.62	27.07	10.75	38.94	33.38	162	285	Average
2	11569.61	55.96	74.00	-18.04	39.65	10.75	38.94	33.38	162	285	Peak

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11648.29	44.18	54.00	-9.82	27.80	10.81	38.98	33.41	156	203	Average	HORIZONTAL
2	11651.18	57.32	74.00	-16.68	40.93	10.81	38.99	33.41	156	203	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11648.35	44.37	54.00	-9.63	27.99	10.81	38.98	33.41	158	232	Average	VERTICAL
2	11651.63	57.49	74.00	-16.51	41.10	10.81	38.99	33.41	158	232	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15538.74	47.88	54.00	-6.12	30.86	12.58	38.14	33.70	171	298	Average	HORIZONTAL
2	15541.68	60.69	74.00	-13.31	43.67	12.58	38.14	33.70	171	298	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15538.24	61.43	74.00	-12.57	44.41	12.58	38.14	33.70	174	273	Peak	VERTICAL
2	15541.82	48.12	54.00	-5.88	31.10	12.58	38.14	33.70	174	273	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15597.60	47.49	54.00	-6.51	30.63	12.58	38.03	33.75	164	256	Average	HORIZONTAL
2	15600.71	61.07	74.00	-12.93	44.24	12.58	38.03	33.78	164	256	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15597.62	60.81	74.00	-13.19	43.95	12.58	38.03	33.75	168	275	Peak	VERTICAL
2	15598.01	47.65	54.00	-6.35	30.79	12.58	38.03	33.75	168	275	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15717.60	46.96	54.00	-7.04	30.43	12.57	37.84	33.88	160	203	Average	HORIZONTAL
2	15718.52	60.02	74.00	-13.98	43.49	12.57	37.84	33.88	160	203	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15720.83	59.72	74.00	-14.28	43.19	12.57	37.84	33.88	162	223	Peak	VERTICAL
2	15721.71	47.03	54.00	-6.97	30.50	12.57	37.84	33.88	162	223	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11490.05	42.62	54.00	-11.38	26.40	10.71	38.88	33.37	154	217	Average	HORIZONTAL
2	11491.77	55.66	74.00	-18.34	39.44	10.71	38.88	33.37	154	217	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11489.87	55.72	74.00	-18.28	39.50	10.71	38.88	33.37	157	179	Peak	VERTICAL
2	11490.67	42.78	54.00	-11.22	26.56	10.71	38.88	33.37	157	179	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11567.64	43.19	54.00	-10.81	26.88	10.75	38.94	33.38	156	278	Average	HORIZONTAL
2	11568.38	55.95	74.00	-18.05	39.64	10.75	38.94	33.38	156	278	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11569.06	56.23	74.00	-17.77	39.92	10.75	38.94	33.38	152	254	Peak	VERTICAL
2	11570.26	43.31	54.00	-10.69	27.00	10.76	38.94	33.39	152	254	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11650.66	44.16	54.00	-9.84	27.77	10.81	38.99	33.41	149	219	Average	HORIZONTAL
2	11650.77	57.12	74.00	-16.88	40.73	10.81	38.99	33.41	149	219	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11648.32	44.26	54.00	-9.74	27.88	10.81	38.98	33.41	151	248	Average	VERTICAL
2	11650.84	57.63	74.00	-16.37	41.24	10.81	38.99	33.41	151	248	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15568.99	47.71	54.00	-6.29	30.77	12.58	38.09	33.73	156	204	Average	HORIZONTAL
2	15569.30	60.73	74.00	-13.27	43.79	12.58	38.09	33.73	156	204	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15569.92	60.74	74.00	-13.26	43.80	12.58	38.09	33.73	159	177	Peak	VERTICAL
2	15571.99	47.88	54.00	-6.12	30.94	12.58	38.09	33.73	159	177	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15690.27	46.96	54.00	-7.04	30.33	12.58	37.90	33.85	156	159	Average	HORIZONTAL
2	15691.61	59.94	74.00	-14.06	43.31	12.58	37.90	33.85	156	159	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15688.96	47.10	54.00	-6.90	30.47	12.58	37.90	33.85	159	181	Average	VERTICAL
2	15689.17	59.62	74.00	-14.38	42.99	12.58	37.90	33.85	159	181	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11510.71	55.66	74.00	-18.34	39.41	10.72	38.90	33.37	152	162	Peak	HORIZONTAL
2	11510.80	42.66	54.00	-11.34	26.41	10.72	38.90	33.37	152	162	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11507.99	42.92	54.00	-11.08	26.67	10.72	38.90	33.37	154	130	Average	VERTICAL
2	11510.69	55.89	74.00	-18.11	39.64	10.72	38.90	33.37	154	130	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11589.58	43.40	54.00	-10.60	27.08	10.76	38.95	33.39	152	163	Average	HORIZONTAL
2	11590.67	56.59	74.00	-17.41	40.27	10.76	38.95	33.39	152	163	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11589.28	43.47	54.00	-10.53	27.15	10.76	38.95	33.39	150	134	Average	VERTICAL
2	11592.38	56.80	74.00	-17.20	40.48	10.76	38.95	33.39	150	134	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15627.77	60.28	74.00	-13.72	43.49	12.58	38.01	33.80	150	162	Peak	HORIZONTAL
2	15628.25	47.21	54.00	-6.79	30.42	12.58	38.01	33.80	150	162	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15629.31	60.30	74.00	-13.70	43.54	12.58	37.98	33.80	152	130	Peak	VERTICAL
2	15631.80	47.21	54.00	-6.79	30.45	12.58	37.98	33.80	152	130	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11547.82	43.14	54.00	-10.86	26.85	10.75	38.92	33.38	153	170	Average	HORIZONTAL
2	11550.36	56.62	74.00	-17.38	40.32	10.75	38.93	33.38	153	170	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11547.56	43.26	54.00	-10.74	26.97	10.75	38.92	33.38	147	135	Average	VERTICAL
2	11550.82	57.24	74.00	-16.76	40.94	10.75	38.93	33.38	147	135	Peak	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 08, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15538.13	61.13	74.00	-12.87	44.11	12.58	38.14	33.70	154	204	Peak	HORIZONTAL
2	15541.61	47.74	54.00	-6.26	30.72	12.58	38.14	33.70	154	204	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15538.17	61.13	74.00	-12.87	44.11	12.58	38.14	33.70	153	190	Peak	VERTICAL
2	15539.35	48.37	54.00	-5.63	31.35	12.58	38.14	33.70	153	190	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 08, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	15600.40	60.23	74.00	-13.77	43.40	12.58	38.03	33.78	156	158	Peak	HORIZONTAL
2	15600.52	47.37	54.00	-6.63	30.54	12.58	38.03	33.78	156	158	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	15598.94	47.44	54.00	-6.56	30.61	12.58	38.03	33.78	157	175	Average	VERTICAL
2	15599.82	60.31	74.00	-13.69	43.48	12.58	38.03	33.78	157	175	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 08, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15718.58	59.94	74.00	-14.06	43.41	12.57	37.84	33.88	156	200	Peak	HORIZONTAL
2	15718.94	47.05	54.00	-6.95	30.52	12.57	37.84	33.88	156	200	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15717.79	47.16	54.00	-6.84	30.63	12.57	37.84	33.88	154	174	Average	VERTICAL
2	15721.98	60.61	74.00	-13.39	44.08	12.57	37.84	33.88	154	174	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 08, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11488.84	46.87	54.00	-7.13	30.65	10.71	38.88	33.37	222	219	Average	HORIZONTAL
2	11489.42	60.70	74.00	-13.30	44.48	10.71	38.88	33.37	222	219	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11489.18	46.57	54.00	-7.43	30.35	10.71	38.88	33.37	221	204	Average	VERTICAL
2	11490.69	60.03	74.00	-13.97	43.81	10.71	38.88	33.37	221	204	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 08, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11569.43	59.61	74.00	-14.39	43.30	10.75	38.94	33.38	222	219	Peak
2	11569.58	45.81	54.00	-8.19	29.50	10.75	38.94	33.38	222	219	Average

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11570.30	59.82	74.00	-14.18	43.51	10.76	38.94	33.39	221	204	Peak
2	11570.47	46.47	54.00	-7.53	30.16	10.76	38.94	33.39	221	204	Average

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 08, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11649.50	61.61	74.00	-12.39	45.23	10.81	38.98	33.41	222	201	Peak	HORIZONTAL
2	11650.47	47.79	54.00	-6.21	31.41	10.81	38.98	33.41	222	201	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11649.77	62.48	74.00	-11.52	46.10	10.81	38.98	33.41	223	215	Peak	VERTICAL
2	11650.58	48.80	54.00	-5.20	32.41	10.81	38.99	33.41	223	215	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 08, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15537.90	47.83	54.00	-6.17	30.81	12.58	38.14	33.70	218	199	Average	HORIZONTAL
2	15539.11	61.17	74.00	-12.83	44.15	12.58	38.14	33.70	218	199	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15540.51	60.90	74.00	-13.10	43.88	12.58	38.14	33.70	217	183	Peak	VERTICAL
2	15540.89	48.48	54.00	-5.52	31.46	12.58	38.14	33.70	217	183	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 08, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15600.56	60.88	74.00	-13.12	44.05	12.58	38.03	33.78	220	176	Peak
2	15600.63	47.55	54.00	-6.45	30.72	12.58	38.03	33.78	220	176	Average

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15598.23	60.34	74.00	-13.66	43.48	12.58	38.03	33.75	220	192	Peak	VERTICAL
2	15600.87	47.69	54.00	-6.31	30.86	12.58	38.03	33.78	220	192	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 08, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15719.08	60.08	74.00	-13.92	43.55	12.57	37.84	33.88	221	184	Peak
2	15720.96	47.10	54.00	-6.90	30.57	12.57	37.84	33.88	221	184	Average

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15719.89	60.93	74.00	-13.07	44.40	12.57	37.84	33.88	223	201	Peak
2	15722.46	47.27	54.00	-6.73	30.74	12.57	37.84	33.88	223	201	Average

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 08, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11490.28	46.45	54.00	-7.55	30.23	10.71	38.88	33.37	226	208	Average	HORIZONTAL
2	11490.35	60.13	74.00	-13.87	43.91	10.71	38.88	33.37	226	208	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11489.78	46.65	54.00	-7.35	30.43	10.71	38.88	33.37	229	208	Average	VERTICAL
2	11490.08	59.65	74.00	-14.35	43.43	10.71	38.88	33.37	229	208	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 08, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11570.36	47.21	54.00	-6.79	30.90	10.76	38.94	33.39	230	201	Average	HORIZONTAL
2	11570.60	60.47	74.00	-13.53	44.16	10.76	38.94	33.39	230	201	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11569.97	47.17	54.00	-6.83	30.86	10.76	38.94	33.39	234	215	Average
2	11569.98	60.62	74.00	-13.38	44.31	10.76	38.94	33.39	234	215	Peak

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 08, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11650.57	49.07	54.00	-4.93	32.68	10.81	38.99	33.41	226	210	Average
2	11650.64	61.97	74.00	-12.03	45.58	10.81	38.99	33.41	226	210	Peak

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11650.18	62.86	74.00	-11.14	46.48	10.81	38.98	33.41	228	207	Peak
2	11650.32	49.10	54.00	-4.90	32.72	10.81	38.98	33.41	228	207	Average

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 08, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15570.30	61.20	74.00	-12.80	44.26	12.58	38.09	33.73	208	177	Peak	HORIZONTAL
2	15570.87	47.67	54.00	-6.33	30.73	12.58	38.09	33.73	208	177	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15567.68	61.21	74.00	-12.79	44.27	12.58	38.09	33.73	207	191	Peak	VERTICAL
2	15568.18	47.91	54.00	-6.09	30.97	12.58	38.09	33.73	207	191	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 08, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15689.88	60.89	74.00	-13.11	44.26	12.58	37.90	33.85	210	192	Peak	HORIZONTAL
2	15690.37	47.06	54.00	-6.94	30.43	12.58	37.90	33.85	210	192	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15689.24	60.68	74.00	-13.32	44.05	12.58	37.90	33.85	212	191	Peak	VERTICAL
2	15691.56	47.11	54.00	-6.89	30.48	12.58	37.90	33.85	212	191	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 08, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11508.59	57.11	74.00	-16.89	40.86	10.72	38.90	33.37	226	224	Peak	HORIZONTAL
2	11509.60	43.27	54.00	-10.73	27.02	10.72	38.90	33.37	226	224	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11508.83	58.79	74.00	-15.21	42.54	10.72	38.90	33.37	227	209	Peak	VERTICAL
2	11510.08	45.06	54.00	-8.94	28.81	10.72	38.90	33.37	227	209	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 08, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11588.18	56.79	74.00	-17.21	40.47	10.76	38.95	33.39	210	193	Peak	HORIZONTAL
2	11588.68	43.86	54.00	-10.14	27.54	10.76	38.95	33.39	210	193	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11590.42	44.85	54.00	-9.15	28.53	10.76	38.95	33.39	211	207	Average	VERTICAL
2	11591.34	58.38	74.00	-15.62	42.06	10.76	38.95	33.39	211	207	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 08, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15629.69	60.60	74.00	-13.40	43.84	12.58	37.98	33.80	208	187	Peak	HORIZONTAL
2	15631.30	47.09	54.00	-6.91	30.33	12.58	37.98	33.80	208	187	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15629.48	47.10	54.00	-6.90	30.34	12.58	37.98	33.80	207	204	Average	VERTICAL
2	15631.66	60.51	74.00	-13.49	43.75	12.58	37.98	33.80	207	204	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 08, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11551.02	43.24	54.00	-10.76	26.94	10.75	38.93	33.38	211	194	Average	HORIZONTAL
2	11551.63	56.55	74.00	-17.45	40.25	10.75	38.93	33.38	211	194	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11549.84	56.46	74.00	-17.54	40.16	10.75	38.93	33.38	209	208	Peak	VERTICAL
2	11550.41	43.47	54.00	-10.53	27.17	10.75	38.93	33.38	209	208	Average	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 07, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15534.40	47.90	54.00	-6.10	30.88	12.58	38.14	33.70	150	112	Average
2	15534.48	60.42	74.00	-13.58	43.40	12.58	38.14	33.70	150	112	Peak

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15539.76	60.87	74.00	-13.13	43.85	12.58	38.14	33.70	152	140	Peak
2	15539.80	48.19	54.00	-5.81	31.17	12.58	38.14	33.70	152	140	Average

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 07, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15598.17	47.22	54.00	-6.78	30.36	12.58	38.03	33.75	151	192	Average	HORIZONTAL
2	15599.53	60.60	74.00	-13.40	43.77	12.58	38.03	33.78	151	192	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15600.72	60.00	74.00	-14.00	43.17	12.58	38.03	33.78	152	166	Peak	VERTICAL
2	15600.79	47.33	54.00	-6.67	30.50	12.58	38.03	33.78	152	166	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 07, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15720.36	60.37	74.00	-13.63	43.84	12.57	37.84	33.88	151	193	Peak	HORIZONTAL
2	15721.51	46.95	54.00	-7.05	30.42	12.57	37.84	33.88	151	193	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15718.30	59.85	74.00	-14.15	43.32	12.57	37.84	33.88	153	219	Peak	VERTICAL
2	15722.09	47.13	54.00	-6.87	30.60	12.57	37.84	33.88	153	219	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 07, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11488.39	43.25	54.00	-10.75	27.03	10.71	38.88	33.37	151	247	Average	HORIZONTAL
2	11492.29	55.83	74.00	-18.17	39.61	10.71	38.88	33.37	151	247	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11487.89	56.17	74.00	-17.83	39.95	10.71	38.88	33.37	153	221	Peak	VERTICAL
2	11490.44	43.02	54.00	-10.98	26.80	10.71	38.88	33.37	153	221	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 07, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11568.49	56.30	74.00	-17.70	39.99	10.75	38.94	33.38	151	261	Peak	HORIZONTAL
2	11570.52	42.72	54.00	-11.28	26.41	10.76	38.94	33.39	151	261	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11568.91	43.36	54.00	-10.64	27.05	10.75	38.94	33.38	152	254	Average	VERTICAL
2	11569.26	55.91	74.00	-18.09	39.60	10.75	38.94	33.38	152	254	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 07, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11650.08	47.81	54.00	-6.19	31.43	10.81	38.98	33.41	268	149	Average
2	11651.91	62.11	74.00	-11.89	45.72	10.81	38.99	33.41	268	149	Peak

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11648.73	60.99	74.00	-13.01	44.61	10.81	38.98	33.41	262	107	Peak
2	11649.18	47.20	54.00	-6.80	30.82	10.81	38.98	33.41	262	107	Average

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 07, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15539.26	60.37	74.00	-13.63	43.35	12.58	38.14	33.70	256	77	Peak	HORIZONTAL
2	15540.52	47.89	54.00	-6.11	30.87	12.58	38.14	33.70	256	77	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15538.68	48.05	54.00	-5.95	31.03	12.58	38.14	33.70	262	73	Average	VERTICAL
2	15541.67	60.91	74.00	-13.09	43.89	12.58	38.14	33.70	262	73	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 07, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15598.74	47.35	54.00	-6.65	30.49	12.58	38.03	33.75	234	100	Average	HORIZONTAL
2	15602.50	60.12	74.00	-13.88	43.29	12.58	38.03	33.78	234	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15598.11	47.35	54.00	-6.65	30.49	12.58	38.03	33.75	236	85	Average	VERTICAL
2	15598.43	59.91	74.00	-14.09	43.05	12.58	38.03	33.75	236	85	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 07, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15717.70	47.02	54.00	-6.98	30.49	12.57	37.84	33.88	215	123	Average	HORIZONTAL
2	15718.17	60.29	74.00	-13.71	43.76	12.57	37.84	33.88	215	123	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15720.27	60.33	74.00	-13.67	43.80	12.57	37.84	33.88	217	104	Peak	VERTICAL
2	15721.76	47.05	54.00	-6.95	30.52	12.57	37.84	33.88	217	104	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 07, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11491.42	43.31	54.00	-10.69	27.09	10.71	38.88	33.37	268	195	Average	HORIZONTAL
2	11491.73	56.20	74.00	-17.80	39.98	10.71	38.88	33.37	268	195	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11490.59	47.16	54.00	-6.84	30.94	10.71	38.88	33.37	218	154	Average	VERTICAL
2	11491.26	59.25	74.00	-14.75	43.03	10.71	38.88	33.37	218	154	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 07, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11569.83	44.35	54.00	-9.65	28.04	10.76	38.94	33.39	248	138	Average	HORIZONTAL
2	11572.21	57.22	74.00	-16.78	40.91	10.76	38.94	33.39	248	138	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11570.88	46.66	54.00	-7.34	30.35	10.76	38.94	33.39	272	118	Average	VERTICAL
2	11571.03	59.79	74.00	-14.21	43.48	10.76	38.94	33.39	272	118	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 07, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11648.38	58.77	74.00	-15.23	42.39	10.81	38.98	33.41	245	144	Peak	HORIZONTAL
2	11648.49	44.96	54.00	-9.04	28.58	10.81	38.98	33.41	245	144	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11650.60	47.02	54.00	-6.98	30.63	10.81	38.99	33.41	250	132	Average	VERTICAL
2	11651.43	59.46	74.00	-14.54	43.07	10.81	38.99	33.41	250	132	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 07, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15570.47	60.42	74.00	-13.58	43.48	12.58	38.09	33.73	223	193	Peak	HORIZONTAL
2	15570.94	47.59	54.00	-6.41	30.65	12.58	38.09	33.73	223	193	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15568.05	60.99	74.00	-13.01	44.05	12.58	38.09	33.73	228	173	Peak	VERTICAL
2	15570.76	47.78	54.00	-6.22	30.84	12.58	38.09	33.73	228	173	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 07, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10458.46	43.17	54.00	-10.83	28.31	10.11	38.46	33.71	212	243	Average	HORIZONTAL
2	10461.91	56.73	74.00	-17.27	41.89	10.11	38.44	33.71	212	243	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10458.76	43.23	54.00	-10.77	28.37	10.11	38.46	33.71	234	217	Average
2	10460.19	56.19	74.00	-17.81	41.33	10.11	38.46	33.71	234	217	Peak

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 07, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11510.11	43.02	54.00	-10.98	26.77	10.72	38.90	33.37	220	275	Average	HORIZONTAL
2	11510.20	56.61	74.00	-17.39	40.36	10.72	38.90	33.37	220	275	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11508.79	58.18	74.00	-15.82	41.93	10.72	38.90	33.37	231	223	Peak	VERTICAL
2	11510.69	45.66	54.00	-8.34	29.41	10.72	38.90	33.37	231	223	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 08, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11590.47	43.12	54.00	-10.88	26.80	10.76	38.95	33.39	213	111	Average	HORIZONTAL
2	11591.78	56.59	74.00	-17.41	40.27	10.76	38.95	33.39	213	111	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11590.87	45.83	54.00	-8.17	29.51	10.76	38.95	33.39	223	154	Average	VERTICAL
2	11591.39	59.31	74.00	-14.69	42.99	10.76	38.95	33.39	223	154	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 08, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15627.60	47.01	54.00	-6.99	30.22	12.58	38.01	33.80	193	172	Average	HORIZONTAL
2	15629.93	59.89	74.00	-14.11	43.13	12.58	37.98	33.80	193	172	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15630.68	60.63	74.00	-13.37	43.87	12.58	37.98	33.80	199	140	Peak	VERTICAL
2	15631.32	47.32	54.00	-6.68	30.56	12.58	37.98	33.80	199	140	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 08, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11548.01	56.43	74.00	-17.57	40.14	10.75	38.92	33.38	200	187	Peak	HORIZONTAL
2	11549.38	43.16	54.00	-10.84	26.86	10.75	38.93	33.38	200	187	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11548.45	57.22	74.00	-16.78	40.93	10.75	38.92	33.38	212	160	Peak	VERTICAL
2	11550.55	44.12	54.00	-9.88	27.82	10.75	38.93	33.38	212	160	Average	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 09, 2015		
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15531.20	49.70	54.00	-4.30	32.68	12.58	38.14	33.70	150	112	Average	HORIZONTAL
2	15535.04	63.12	74.00	-10.88	46.10	12.58	38.14	33.70	150	112	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15530.16	62.56	74.00	-11.44	45.54	12.58	38.14	33.70	150	223	Peak	VERTICAL
2	15533.80	49.67	54.00	-4.33	32.65	12.58	38.14	33.70	150	223	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 09, 2015		
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15590.16	48.97	54.00	-5.03	32.08	12.58	38.06	33.75	150	204	Average	HORIZONTAL
2	15590.84	62.16	74.00	-11.84	45.27	12.58	38.06	33.75	150	204	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15594.28	49.21	54.00	-4.79	32.32	12.58	38.06	33.75	150	128	Average	VERTICAL
2	15604.40	62.29	74.00	-11.71	45.46	12.58	38.03	33.78	150	128	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 09, 2015		
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15714.12	48.72	54.00	-5.28	32.19	12.57	37.84	33.88	150	165	Average	HORIZONTAL
2	15723.96	62.42	74.00	-11.58	45.89	12.57	37.84	33.88	150	165	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15726.40	61.59	74.00	-12.41	45.08	12.57	37.84	33.90	150	252	Peak	VERTICAL
2	15726.72	48.65	54.00	-5.35	32.14	12.57	37.84	33.90	150	252	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 09, 2015		
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11483.72	43.78	54.00	-10.22	27.56	10.71	38.88	33.37	150	214	Average	HORIZONTAL
2	11495.68	57.48	74.00	-16.52	41.25	10.72	38.88	33.37	150	214	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11495.12	57.50	74.00	-16.50	41.27	10.72	38.88	33.37	150	129	Peak	VERTICAL
2	11495.20	44.68	54.00	-9.32	28.45	10.72	38.88	33.37	150	129	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 09, 2015		
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11571.72	58.26	74.00	-15.74	41.95	10.76	38.94	33.39	150	309 Peak	HORIZONTAL
2	11576.68	44.97	54.00	-9.03	28.66	10.76	38.94	33.39	150	309 Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11561.12	57.95	74.00	-16.05	41.65	10.75	38.93	33.38	150	241 Peak	VERTICAL
2	11579.48	44.45	54.00	-9.55	28.14	10.76	38.94	33.39	150	241 Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 09, 2015		
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11657.16	59.35	74.00	-14.65	42.96	10.81	38.99	33.41	150	219	Peak	HORIZONTAL
2	11659.72	45.68	54.00	-8.32	29.29	10.81	38.99	33.41	150	219	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11649.04	46.08	54.00	-7.92	29.70	10.81	38.98	33.41	150	289	Average	VERTICAL
2	11654.16	59.43	74.00	-14.57	43.04	10.81	38.99	33.41	150	289	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 09, 2015		
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15538.48	63.27	74.00	-10.73	46.25	12.58	38.14	33.70	150	192	Peak	HORIZONTAL
2	15546.48	49.77	54.00	-4.23	32.77	12.58	38.12	33.70	150	192	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15532.84	48.92	54.00	-5.08	31.90	12.58	38.14	33.70	150	256	Average	VERTICAL
2	15539.52	62.40	74.00	-11.60	45.38	12.58	38.14	33.70	150	256	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 09, 2015		
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15594.84	48.02	54.00	-5.98	31.16	12.58	38.03	33.75	150	192	Average	HORIZONTAL
2	15600.12	62.10	74.00	-11.90	45.27	12.58	38.03	33.78	150	192	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15591.52	62.95	74.00	-11.05	46.06	12.58	38.06	33.75	150	236	Peak	VERTICAL
2	15592.60	49.20	54.00	-4.80	32.31	12.58	38.06	33.75	150	236	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 09, 2015		
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15710.44	48.85	54.00	-5.15	32.29	12.57	37.87	33.88	150	218	Average	HORIZONTAL
2	15720.52	62.25	74.00	-11.75	45.72	12.57	37.84	33.88	150	218	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15710.88	48.58	54.00	-5.42	32.02	12.57	37.87	33.88	150	168	Average	VERTICAL
2	15718.48	61.72	74.00	-12.28	45.19	12.57	37.84	33.88	150	168	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 09, 2015		
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11480.92	44.00	54.00	-10.00	27.78	10.71	38.88	33.37	150	316	Average	HORIZONTAL
2	11491.84	57.52	74.00	-16.48	41.30	10.71	38.88	33.37	150	316	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11496.72	57.30	74.00	-16.70	41.07	10.72	38.88	33.37	150	227	Peak	VERTICAL
2	11499.16	44.66	54.00	-9.34	28.41	10.72	38.90	33.37	150	227	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 09, 2015		
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11571.24	44.97	54.00	-9.03	28.66	10.76	38.94	33.39	150	221	Average	HORIZONTAL
2	11577.88	58.17	74.00	-15.83	41.86	10.76	38.94	33.39	150	221	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11562.28	57.99	74.00	-16.01	41.69	10.75	38.93	33.38	150	257	Peak	VERTICAL
2	11570.84	44.96	54.00	-9.04	28.65	10.76	38.94	33.39	150	257	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 09, 2015		
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11640.64	58.66	74.00	-15.34	42.29	10.79	38.98	33.40	150	164	Peak	HORIZONTAL
2	11656.96	45.41	54.00	-8.59	29.02	10.81	38.99	33.41	150	164	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11658.40	59.55	74.00	-14.45	43.16	10.81	38.99	33.41	150	212	Peak	VERTICAL
2	11658.80	46.03	54.00	-7.97	29.64	10.81	38.99	33.41	150	212	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 09, 2015		
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15560.16	49.48	54.00	-4.52	32.51	12.58	38.12	33.73	150	199	Average	HORIZONTAL
2	15566.60	62.69	74.00	-11.31	45.75	12.58	38.09	33.73	150	199	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15562.72	49.42	54.00	-4.58	32.48	12.58	38.09	33.73	150	115	Average	VERTICAL
2	15576.60	62.37	74.00	-11.63	45.45	12.58	38.09	33.75	150	115	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 09, 2015		
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15683.92	48.93	54.00	-5.07	32.30	12.58	37.90	33.85	150	146	Average
2	15696.92	61.84	74.00	-12.16	45.24	12.58	37.87	33.85	150	146	Peak

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15691.32	48.92	54.00	-5.08	32.29	12.58	37.90	33.85	150	215	Average
2	15695.32	62.27	74.00	-11.73	45.64	12.58	37.90	33.85	150	215	Peak

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 09, 2015		
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11502.96	58.87	74.00	-15.13	42.62	10.72	38.90	33.37	150	197	Peak	HORIZONTAL
2	11503.84	44.51	54.00	-9.49	28.26	10.72	38.90	33.37	150	197	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11514.40	57.44	74.00	-16.56	41.19	10.72	38.90	33.37	150	297	Peak	VERTICAL
2	11517.64	44.61	54.00	-9.39	28.35	10.72	38.91	33.37	150	297	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 09, 2015		
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11597.64	58.30	74.00	-15.70	41.97	10.78	38.95	33.40	150	256 Peak	HORIZONTAL
2	11598.96	44.93	54.00	-9.07	28.60	10.78	38.95	33.40	150	256 Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11594.48	58.84	74.00	-15.16	42.52	10.76	38.95	33.39	150	178 Peak	VERTICAL
2	11596.24	45.06	54.00	-8.94	28.73	10.78	38.95	33.40	150	178 Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 09, 2015		
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15621.40	49.11	54.00	-4.89	32.30	12.58	38.01	33.78	150	139	Average	HORIZONTAL
2	15633.12	62.22	74.00	-11.78	45.46	12.58	37.98	33.80	150	139	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15633.44	48.84	54.00	-5.16	32.08	12.58	37.98	33.80	150	76	Average	VERTICAL
2	15633.48	61.79	74.00	-12.21	45.03	12.58	37.98	33.80	150	76	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 09, 2015		
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11546.72	57.80	74.00	-16.20	41.51	10.75	38.92	33.38	150	200	Peak	HORIZONTAL
2	11548.32	44.50	54.00	-9.50	28.21	10.75	38.92	33.38	150	200	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11551.12	44.89	54.00	-9.11	28.59	10.75	38.93	33.38	150	249	Average
2	11555.76	57.81	74.00	-16.19	41.51	10.75	38.93	33.38	150	249	Peak

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 10, 2015		
Test Mode	Mode 5 (Set 8 Patch antenna / 3.26dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15539.39	47.36	54.00	-6.64	30.34	12.58	38.14	33.70	153	60 Average	HORIZONTAL
2	15539.96	60.64	74.00	-13.36	43.62	12.58	38.14	33.70	153	60 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15539.19	60.50	74.00	-13.50	43.48	12.58	38.14	33.70	157	41 Peak	VERTICAL
2	15539.22	47.39	54.00	-6.61	30.37	12.58	38.14	33.70	157	41 Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 10, 2015		
Test Mode	Mode 5 (Set 8 Patch antenna / 3.26dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15600.58	47.04	54.00	-6.96	30.21	12.58	38.03	33.78	162	77 Average	HORIZONTAL
2	15600.76	60.01	74.00	-13.99	43.18	12.58	38.03	33.78	162	77 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15600.02	60.72	74.00	-13.28	43.89	12.58	38.03	33.78	171	94 Peak	VERTICAL
2	15600.34	46.51	54.00	-7.49	29.68	12.58	38.03	33.78	171	94 Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 10, 2015		
Test Mode	Mode 5 (Set 8 Patch antenna / 3.26dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15719.22	58.67	74.00	-15.33	42.14	12.57	37.84	33.88	156	114	Peak	HORIZONTAL
2	15720.88	46.33	54.00	-7.67	29.80	12.57	37.84	33.88	156	114	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15719.89	46.32	54.00	-7.68	29.79	12.57	37.84	33.88	165	114	Average	VERTICAL
2	15720.98	58.74	74.00	-15.26	42.21	12.57	37.84	33.88	165	114	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 10, 2015		
Test Mode	Mode 5 (Set 8 Patch antenna / 3.26dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11489.36	45.09	54.00	-8.91	28.87	10.71	38.88	33.37	153	158	Average	HORIZONTAL
2	11490.08	57.32	74.00	-16.68	41.10	10.71	38.88	33.37	153	158	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11489.85	57.90	74.00	-16.10	41.68	10.71	38.88	33.37	153	177	Peak	VERTICAL
2	11490.90	44.69	54.00	-9.31	28.47	10.71	38.88	33.37	153	177	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 10, 2015		
Test Mode	Mode 5 (Set 8 Patch antenna / 3.26dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11570.74	46.52	54.00	-7.48	30.21	10.76	38.94	33.39	132	144	Average	HORIZONTAL
2	11570.75	59.97	74.00	-14.03	43.66	10.76	38.94	33.39	132	144	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11569.45	58.24	74.00	-15.76	41.93	10.75	38.94	33.38	152	178	Peak	VERTICAL
2	11570.90	45.26	54.00	-8.74	28.95	10.76	38.94	33.39	152	178	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 10, 2015		
Test Mode	Mode 5 (Set 8 Patch antenna / 3.26dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11650.30	48.11	54.00	-5.89	31.73	10.81	38.98	33.41	145	154	Average	HORIZONTAL
2	11650.54	61.65	74.00	-12.35	45.26	10.81	38.99	33.41	145	154	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11649.81	45.91	54.00	-8.09	29.53	10.81	38.98	33.41	145	142	Average	VERTICAL
2	11650.89	57.72	74.00	-16.28	41.33	10.81	38.99	33.41	145	142	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 10, 2015		
Test Mode	Mode 5 (Set 8 Patch antenna / 3.26dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15539.60	47.34	54.00	-6.66	30.32	12.58	38.14	33.70	148	31	Average
2	15540.24	60.22	74.00	-13.78	43.20	12.58	38.14	33.70	148	31	Peak

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15539.76	60.24	74.00	-13.76	43.22	12.58	38.14	33.70	147	11	Peak
2	15540.94	47.46	54.00	-6.54	30.44	12.58	38.14	33.70	147	11	Average

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 10, 2015		
Test Mode	Mode 5 (Set 8 Patch antenna / 3.26dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15599.10	46.68	54.00	-7.32	29.85	12.58	38.03	33.78	149	52	Average	HORIZONTAL
2	15599.34	59.19	74.00	-14.81	42.36	12.58	38.03	33.78	149	52	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15599.14	46.72	54.00	-7.28	29.89	12.58	38.03	33.78	154	180	Average	VERTICAL
2	15599.24	59.47	74.00	-14.53	42.64	12.58	38.03	33.78	154	180	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 11, 2015		
Test Mode	Mode 5 (Set 8 Patch antenna / 3.26dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15719.42	59.57	74.00	-14.43	43.04	12.57	37.84	33.88	156	174	Peak	HORIZONTAL
2	15720.25	46.16	54.00	-7.84	29.63	12.57	37.84	33.88	156	174	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15719.36	46.17	54.00	-7.83	29.64	12.57	37.84	33.88	151	147	Average
2	15719.43	59.30	74.00	-14.70	42.77	12.57	37.84	33.88	151	147	Peak

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 11, 2015		
Test Mode	Mode 5 (Set 8 Patch antenna / 3.26dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11490.48	59.10	74.00	-14.90	42.88	10.71	38.88	33.37	160	140	Peak	HORIZONTAL
2	11490.55	45.33	54.00	-8.67	29.11	10.71	38.88	33.37	160	140	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11489.84	57.13	74.00	-16.87	40.91	10.71	38.88	33.37	160	144	Peak	VERTICAL
2	11490.39	44.35	54.00	-9.65	28.13	10.71	38.88	33.37	160	144	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 11, 2015		
Test Mode	Mode 5 (Set 8 Patch antenna / 3.26dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11569.76	57.48	74.00	-16.52	41.17	10.76	38.94	33.39	156	174	Peak	HORIZONTAL
2	11570.19	45.10	54.00	-8.90	28.79	10.76	38.94	33.39	156	174	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11570.80	56.52	74.00	-17.48	40.21	10.76	38.94	33.39	153	14	Peak	VERTICAL
2	11570.92	44.89	54.00	-9.11	28.58	10.76	38.94	33.39	153	14	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 11, 2015		
Test Mode	Mode 5 (Set 8 Patch antenna / 3.26dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11649.47	47.78	54.00	-6.22	31.40	10.81	38.98	33.41	151	144	Average
2	11651.00	60.76	74.00	-13.24	44.37	10.81	38.99	33.41	151	144	Peak

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11649.86	59.05	74.00	-14.95	42.67	10.81	38.98	33.41	154	163	Peak
2	11650.72	46.70	54.00	-7.30	30.31	10.81	38.99	33.41	154	163	Average

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 11, 2015		
Test Mode	Mode 5 (Set 8 Patch antenna / 3.26dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15570.00	59.81	74.00	-14.19	42.87	12.58	38.09	33.73	156	157	Peak	HORIZONTAL
2	15570.60	47.03	54.00	-6.97	30.09	12.58	38.09	33.73	156	157	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15570.07	47.08	54.00	-6.92	30.14	12.58	38.09	33.73	156	42	Average	VERTICAL
2	15571.00	59.66	74.00	-14.34	42.72	12.58	38.09	33.73	156	42	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 11, 2015		
Test Mode	Mode 5 (Set 8 Patch antenna / 3.26dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15689.26	59.80	74.00	-14.20	43.17	12.58	37.90	33.85	161	125	Peak	HORIZONTAL
2	15690.47	46.33	54.00	-7.67	29.70	12.58	37.90	33.85	161	125	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15689.97	59.04	74.00	-14.96	42.41	12.58	37.90	33.85	161	99	Peak	VERTICAL
2	15690.84	46.40	54.00	-7.60	29.77	12.58	37.90	33.85	161	99	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 11, 2015		
Test Mode	Mode 5 (Set 8 Patch antenna / 3.26dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11509.06	42.99	54.00	-11.01	26.74	10.72	38.90	33.37	161	154	Average
2	11509.47	55.65	74.00	-18.35	39.40	10.72	38.90	33.37	161	154	Peak

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11509.36	42.59	54.00	-11.41	26.34	10.72	38.90	33.37	159	140	Average	VERTICAL
2	11509.67	55.77	74.00	-18.23	39.52	10.72	38.90	33.37	159	140	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 11, 2015		
Test Mode	Mode 5 (Set 8 Patch antenna / 3.26dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11589.99	57.50	74.00	-16.50	41.18	10.76	38.95	33.39	133	134	Peak	HORIZONTAL
2	11590.63	43.46	54.00	-10.54	27.14	10.76	38.95	33.39	133	134	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11589.08	43.77	54.00	-10.23	27.45	10.76	38.95	33.39	155	119	Average	VERTICAL
2	11589.87	57.24	74.00	-16.76	40.92	10.76	38.95	33.39	155	119	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 11, 2015		
Test Mode	Mode 5 (Set 8 Patch antenna / 3.26dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15629.95	46.67	54.00	-7.33	29.91	12.58	37.98	33.80	134	109	Average
2	15630.44	59.74	74.00	-14.26	42.98	12.58	37.98	33.80	134	109	Peak

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15629.36	59.52	74.00	-14.48	42.76	12.58	37.98	33.80	138	131	Peak
2	15629.68	46.33	54.00	-7.67	29.57	12.58	37.98	33.80	138	131	Average

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 11, 2015		
Test Mode	Mode 5 (Set 8 Patch antenna / 3.26dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11549.04	43.41	54.00	-10.59	27.11	10.75	38.93	33.38	159	149	Average	HORIZONTAL
2	11550.42	56.42	74.00	-17.58	40.12	10.75	38.93	33.38	159	149	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11550.72	43.36	54.00	-10.64	27.06	10.75	38.93	33.38	163	6	Average	VERTICAL
2	11550.84	56.38	74.00	-17.62	40.08	10.75	38.93	33.38	163	6	Peak	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 13, 2015		
Test Mode	Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi, Chain 3: 6.6dBi, Chain 4: 5.9dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15530.88	47.60	54.00	-6.40	30.58	12.58	38.14	33.70	204	113	Average	HORIZONTAL
2	15543.88	61.09	74.00	-12.91	44.09	12.58	38.12	33.70	204	113	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15541.60	47.70	54.00	-6.30	30.68	12.58	38.14	33.70	201	135	Average	VERTICAL
2	15541.68	60.68	74.00	-13.32	43.66	12.58	38.14	33.70	201	135	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 13, 2015		
Test Mode	Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi, Chain 3: 6.6dBi, Chain 4: 5.9dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15631.48	47.75	54.00	-6.25	30.99	12.58	37.98	33.80	236	318	Average	HORIZONTAL
2	15631.76	60.75	74.00	-13.25	43.99	12.58	37.98	33.80	236	318	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15555.04	60.91	74.00	-13.09	43.94	12.58	38.12	33.73	186	190	Peak	VERTICAL
2	15556.60	47.82	54.00	-6.18	30.85	12.58	38.12	33.73	186	190	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 13, 2015		
Test Mode	Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi, Chain 3: 6.6dBi, Chain 4: 5.9dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15719.96	59.87	74.00	-14.13	43.34	12.57	37.84	33.88	274	277	Peak	HORIZONTAL
2	15722.68	47.04	54.00	-6.96	30.51	12.57	37.84	33.88	274	277	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15712.56	60.19	74.00	-13.81	43.63	12.57	37.87	33.88	266	211	Peak	VERTICAL
2	15716.16	47.00	54.00	-7.00	30.47	12.57	37.84	33.88	266	211	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 13, 2015		
Test Mode	Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi, Chain 3: 6.6dBi, Chain 4: 5.9dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11481.08	56.09	74.00	-17.91	39.87	10.71	38.88	33.37	259	124	Peak	HORIZONTAL
2	11489.92	44.57	54.00	-9.43	28.35	10.71	38.88	33.37	259	124	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11495.56	44.35	54.00	-9.65	28.12	10.72	38.88	33.37	288	205	Average
2	11497.68	56.73	74.00	-17.27	40.48	10.72	38.90	33.37	288	205	Peak

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 13, 2015		
Test Mode	Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi, Chain 3: 6.6dBi, Chain 4: 5.9dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11569.92	45.43	54.00	-8.57	29.12	10.76	38.94	33.39	284	112	Average	HORIZONTAL
2	11570.52	58.06	74.00	-15.94	41.75	10.76	38.94	33.39	284	112	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11573.12	47.75	54.00	-6.25	31.44	10.76	38.94	33.39	285	1	Average
2	11575.72	60.58	74.00	-13.42	44.27	10.76	38.94	33.39	285	1	Peak

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 13, 2015		
Test Mode	Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi, Chain 3: 6.6dBi, Chain 4: 5.9dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11649.32	59.77	74.00	-14.23	43.39	10.81	38.98	33.41	299	93 Peak	HORIZONTAL
2	11650.16	47.99	54.00	-6.01	31.61	10.81	38.98	33.41	299	93 Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11645.68	62.24	74.00	-11.76	45.87	10.79	38.98	33.40	299	14 Peak	VERTICAL
2	11645.96	49.63	54.00	-4.37	33.26	10.79	38.98	33.40	299	14 Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 13, 2015		
Test Mode	Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi, Chain 3: 6.6dBi, Chain 4: 5.9dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15532.96	47.95	54.00	-6.05	30.93	12.58	38.14	33.70	280	95 Average	HORIZONTAL
2	15549.56	60.85	74.00	-13.15	43.88	12.58	38.12	33.73	280	95 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15532.52	60.89	74.00	-13.11	43.87	12.58	38.14	33.70	260	120 Peak	VERTICAL
2	15533.32	47.91	54.00	-6.09	30.89	12.58	38.14	33.70	260	120 Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 13, 2015		
Test Mode	Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi, Chain 3: 6.6dBi, Chain 4: 5.9dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15591.48	60.18	74.00	-13.82	43.29	12.58	38.06	33.75	250	146 Peak	HORIZONTAL
2	15600.36	47.29	54.00	-6.71	30.46	12.58	38.03	33.78	250	146 Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15593.88	60.10	74.00	-13.90	43.21	12.58	38.06	33.75	251	130 Peak	VERTICAL
2	15596.68	47.42	54.00	-6.58	30.56	12.58	38.03	33.75	251	130 Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 13, 2015		
Test Mode	Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi, Chain 3: 6.6dBi, Chain 4: 5.9dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15716.16	47.00	54.00	-7.00	30.47	12.57	37.84	33.88	264	156	Average
2	15730.00	60.49	74.00	-13.51	43.98	12.57	37.84	33.90	264	156	Peak

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15724.36	47.17	54.00	-6.83	30.64	12.57	37.84	33.88	269	189	Average
2	15728.36	60.20	74.00	-13.80	43.69	12.57	37.84	33.90	269	189	Peak

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 13, 2015		
Test Mode	Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi, Chain 3: 6.6dBi, Chain 4: 5.9dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11490.80	42.81	54.00	-11.19	26.59	10.71	38.88	33.37	272	218	Average	HORIZONTAL
2	11492.92	55.50	74.00	-18.50	39.28	10.71	38.88	33.37	272	218	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11490.28	47.10	54.00	-6.90	30.88	10.71	38.88	33.37	270	240	Average
2	11495.04	60.01	74.00	-13.99	43.78	10.72	38.88	33.37	270	240	Peak

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 13, 2015		
Test Mode	Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi, Chain 3: 6.6dBi, Chain 4: 5.9dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11569.20	55.72	74.00	-18.28	39.41	10.75	38.94	33.38	292	240 Peak	HORIZONTAL
2	11570.08	44.16	54.00	-9.84	27.85	10.76	38.94	33.39	292	240 Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11570.88	48.91	54.00	-5.09	32.60	10.76	38.94	33.39	297	183 Average	VERTICAL
2	11570.92	61.83	74.00	-12.17	45.52	10.76	38.94	33.39	297	183 Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 13, 2015		
Test Mode	Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi, Chain 3: 6.6dBi, Chain 4: 5.9dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11650.28	45.16	54.00	-8.84	28.78	10.81	38.98	33.41	296	161	Average	HORIZONTAL
2	11650.40	58.17	74.00	-15.83	41.79	10.81	38.98	33.41	296	161	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11651.16	49.39	54.00	-4.61	33.00	10.81	38.99	33.41	297	189	Average	VERTICAL
2	11651.16	61.22	74.00	-12.78	44.83	10.81	38.99	33.41	297	189	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 13, 2015		
Test Mode	Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi, Chain 3: 6.6dBi, Chain 4: 5.9dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15569.92	47.83	54.00	-6.17	30.89	12.58	38.09	33.73	297	172	Average	HORIZONTAL
2	15576.88	61.04	74.00	-12.96	44.12	12.58	38.09	33.75	297	172	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15561.72	60.63	74.00	-13.37	43.69	12.58	38.09	33.73	261	184	Peak	VERTICAL
2	15564.76	47.68	54.00	-6.32	30.74	12.58	38.09	33.73	261	184	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 13, 2015		
Test Mode	Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi, Chain 3: 6.6dBi, Chain 4: 5.9dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15685.40	47.04	54.00	-6.96	30.41	12.58	37.90	33.85	300	195	Average
2	15696.48	59.21	74.00	-14.79	42.58	12.58	37.90	33.85	300	195	Peak

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15682.64	59.59	74.00	-14.41	42.96	12.58	37.90	33.85	272	167	Peak
2	15690.80	47.15	54.00	-6.85	30.52	12.58	37.90	33.85	272	167	Average

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 13, 2015		
Test Mode	Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi, Chain 3: 6.6dBi, Chain 4: 5.9dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11505.48	55.22	74.00	-18.78	38.97	10.72	38.90	33.37	272	181	Peak
2	11518.76	42.94	54.00	-11.06	26.68	10.73	38.91	33.38	272	181	Average

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11510.56	44.05	54.00	-9.95	27.80	10.72	38.90	33.37	272	72	Average
2	11520.00	55.30	74.00	-18.70	39.04	10.73	38.91	33.38	272	72	Peak

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 13, 2015		
Test Mode	Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi, Chain 3: 6.6dBi, Chain 4: 5.9dBi / 4TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11584.36	55.87	74.00	-18.13	39.55	10.76	38.95	33.39	242	113 Peak	HORIZONTAL
2	11589.88	43.10	54.00	-10.90	26.78	10.76	38.95	33.39	242	113 Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11597.36	56.09	74.00	-17.91	39.76	10.78	38.95	33.40	242	119 Peak	VERTICAL
2	11598.92	43.46	54.00	-10.54	27.13	10.78	38.95	33.40	242	119 Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 13, 2015		
Test Mode	Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi, Chain 3: 6.6dBi, Chain 4: 5.9dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15633.16	59.38	74.00	-14.62	42.62	12.58	37.98	33.80	299	61 Peak	HORIZONTAL
2	15633.60	46.88	54.00	-7.12	30.12	12.58	37.98	33.80	299	61 Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15622.60	60.63	74.00	-13.37	43.82	12.58	38.01	33.78	278	151 Peak	VERTICAL
2	15627.92	47.23	54.00	-6.77	30.44	12.58	38.01	33.80	278	151 Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 13, 2015		
Test Mode	Mode 6 (Set 9 Monopole antenna / Chain 1: 6.8dBi, Chain 2: 6.7dBi, Chain 3: 6.6dBi, Chain 4: 5.9dBi / 4TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11556.36	56.72	74.00	-17.28	40.42	10.75	38.93	33.38	284	297	Peak	HORIZONTAL
2	11558.64	44.58	54.00	-9.42	28.28	10.75	38.93	33.38	284	297	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11540.92	58.96	74.00	-15.04	42.69	10.73	38.92	33.38	289	349	Peak	VERTICAL
2	11546.08	47.02	54.00	-6.98	30.73	10.75	38.92	33.38	289	349	Average	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

4.7. Band Edge Emissions Measurement

4.7.1. Limit

For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

In addition, In case the emission fall within the restricted band specified on 2.7, then the 2.8 limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/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

4.7.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RBW / VBW (Emission in restricted band)	1 MHz / 3MHz for Peak, 1 MHz / 1/T for Average
RBW / VBW (Emission in non-restricted band)	1 MHz / 3MHz for Peak

4.7.3. Test Procedures

The test procedure is the same as section 4.6.3.

4.7.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.6.4.

4.7.5. Test Deviation

There is no deviation with the original standard.

4.7.6. EUT Operation during Test

For Non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

For beamforming mode:

The EUT was programmed to be in beamforming transmitting mode.

4.7.7. Test Result of Band Edge and Fundamental Emissions

For Non-Beamforming Mode

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1
Test Date	Oct. 07, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 1TX)		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5149.80	61.06	74.00	-12.94	54.16	6.21	33.74	33.05	218	343	Peak	VERTICAL
2	5150.00	45.74	54.00	-8.26	38.84	6.21	33.74	33.05	218	343	Average	VERTICAL
3	5174.00	98.18			91.20	6.24	33.79	33.05	218	343	Average	VERTICAL
4	5177.60	109.23			102.25	6.24	33.79	33.05	218	343	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5116.00	44.89	54.00	-9.11	38.11	6.14	33.69	33.05	199	40	Average	VERTICAL
2	5123.20	57.78	74.00	-16.22	50.95	6.17	33.71	33.05	199	40	Peak	VERTICAL
3	5202.00	110.59			103.55	6.27	33.82	33.05	199	40	Peak	VERTICAL
4	5205.60	99.16			92.12	6.27	33.82	33.05	199	40	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4999.00	44.71	54.00	-9.29	38.25	6.01	33.50	33.05	194	360	Average	VERTICAL
2	5053.00	57.20	74.00	-16.80	50.59	6.08	33.58	33.05	194	360	Peak	VERTICAL
3	5242.00	112.88			105.73	6.30	33.90	33.05	194	360	Peak	VERTICAL
4	5246.00	101.34			94.16	6.34	33.90	33.06	194	360	Average	VERTICAL
5	5407.00	45.56	54.00	-8.44	37.95	6.53	34.14	33.06	194	360	Average	VERTICAL
6	5482.00	59.38	74.00	-14.62	51.54	6.63	34.27	33.06	194	360	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 1TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5512.00	64.08	68.20	-4.12	56.21	7.75	31.73	31.61	165	135	Peak	VERTICAL
2	5741.00	115.11			106.89	7.83	32.10	31.71	165	135	Peak	VERTICAL
3	5750.00	106.62			98.40	7.83	32.10	31.71	165	135	Average	VERTICAL
4	5990.00	65.04	68.20	-3.16	56.37	8.01	32.47	31.81	165	135	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5549.00	64.28	68.20	-3.92	56.32	7.80	31.78	31.62	169	135	Peak	VERTICAL
2	5779.00	117.11			108.86	7.82	32.15	31.72	169	135	Peak	VERTICAL
3	5782.00	106.92			98.67	7.82	32.15	31.72	169	135	Average	VERTICAL
4	5950.00	64.56	68.20	-3.64	55.96	7.98	32.42	31.80	169	135	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5588.00	64.03	68.20	-4.17	55.99	7.85	31.83	31.64	166	135	Peak	VERTICAL
2	5830.00	106.83			98.49	7.86	32.23	31.75	166	135	Average	VERTICAL
3	5832.00	117.14			108.80	7.86	32.23	31.75	166	135	Peak	VERTICAL
4	5982.00	64.63	68.20	-3.57	55.96	8.01	32.47	31.81	166	135	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1
Test Date	Oct. 07, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 1TX)		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5141.12	57.00	74.00	-17.00	50.14	6.17	33.74	33.05	210	359	Peak	VERTICAL
2	5150.00	47.66	54.00	-6.34	40.76	6.21	33.74	33.05	210	359	Average	VERTICAL
3	5174.20	97.73			90.75	6.24	33.79	33.05	210	359	Average	VERTICAL
4	5174.20	106.73			99.75	6.24	33.79	33.05	210	359	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5112.80	44.19	54.00	-9.81	37.41	6.14	33.69	33.05	209	301	Average	VERTICAL
2	5128.40	56.76	74.00	-17.24	49.93	6.17	33.71	33.05	209	301	Peak	VERTICAL
3	5197.20	111.49			104.45	6.27	33.82	33.05	209	301	Peak	VERTICAL
4	5205.20	100.44			93.40	6.27	33.82	33.05	209	301	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5000.00	44.79	54.00	-9.21	38.33	6.01	33.50	33.05	212	289	Average	VERTICAL
2	5030.00	58.01	74.00	-15.99	51.47	6.04	33.55	33.05	212	289	Peak	VERTICAL
3	5246.00	99.52			92.34	6.34	33.90	33.06	212	289	Average	VERTICAL
4	5247.00	110.15			102.97	6.34	33.90	33.06	212	289	Peak	VERTICAL
5	5397.00	45.47	54.00	-8.53	37.89	6.50	34.14	33.06	212	289	Average	VERTICAL
6	5412.00	58.72	74.00	-15.28	51.08	6.53	34.17	33.06	212	289	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 1TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5512.00	63.45	68.20	-4.75	55.58	7.75	31.73	31.61	179	136	Peak	VERTICAL
2	5749.00	104.58			96.36	7.83	32.10	31.71	179	136	Average	VERTICAL
3	5750.00	114.62			106.40	7.83	32.10	31.71	179	136	Peak	VERTICAL
4	5979.00	62.37	68.20	-5.83	53.70	8.01	32.47	31.81	179	136	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5552.00	64.60	68.20	-3.60	56.64	7.80	31.78	31.62	170	134	Peak	VERTICAL
2	5789.00	105.87			97.60	7.82	32.18	31.73	170	134	Average	VERTICAL
3	5789.00	116.53			108.26	7.82	32.18	31.73	170	134	Peak	VERTICAL
4	5957.00	64.25	68.20	-3.95	55.65	7.98	32.42	31.80	170	134	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5588.00	63.50	68.20	-4.70	55.46	7.85	31.83	31.64	159	160	Peak	VERTICAL
2	5829.00	105.67			97.33	7.86	32.23	31.75	159	160	Average	VERTICAL
3	5829.00	115.91			107.57	7.86	32.23	31.75	159	160	Peak	VERTICAL
4	5954.00	64.09	68.20	-4.11	55.49	7.98	32.42	31.80	159	160	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1
Test Date	Oct. 07, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 1TX)		

Channel 38

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5150.00	50.72	54.00	-3.28	43.82	6.21	33.74	33.05	208	328	Average	VERTICAL
2	5150.00	67.10	74.00	-6.90	60.20	6.21	33.74	33.05	208	328	Peak	VERTICAL
3	5202.00	105.99			98.95	6.27	33.82	33.05	208	328	Peak	VERTICAL
4	5203.00	95.25			88.21	6.27	33.82	33.05	208	328	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4999.00	44.52	54.00	-9.48	38.06	6.01	33.50	33.05	204	300	Average	VERTICAL
2	5035.00	56.95	74.00	-17.05	50.41	6.04	33.55	33.05	204	300	Peak	VERTICAL
3	5244.00	107.89			100.74	6.30	33.90	33.05	204	300	Peak	VERTICAL
4	5245.00	96.36			89.21	6.30	33.90	33.05	204	300	Average	VERTICAL

Item 2, 3 are the fundamental frequency at 5230 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 1TX)		

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5612.00	64.11	68.20	-4.09	56.00	7.87	31.89	31.65	172	134	Peak	VERTICAL
2	5746.00	111.27			103.05	7.83	32.10	31.71	172	134	Peak	VERTICAL
3	5762.00	100.43			92.18	7.83	32.13	31.71	172	134	Average	VERTICAL
4	5931.00	64.89	68.20	-3.31	56.33	7.96	32.39	31.79	172	134	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5631.00	64.94	68.20	-3.26	56.83	7.86	31.91	31.66	170	135	Peak	VERTICAL
2	5803.00	114.22			105.96	7.82	32.18	31.74	170	135	Peak	VERTICAL
3	5804.00	102.93			94.67	7.82	32.18	31.74	170	135	Average	VERTICAL
4	5934.00	66.28	68.20	-1.92	57.72	7.96	32.39	31.79	170	135	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1
Test Date	Oct. 07, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 1TX)		

Channel 42

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5148.00	66.77	74.00	-7.23	59.87	6.21	33.74	33.05	201	360	Peak	VERTICAL
2	5150.00	51.79	54.00	-2.21	44.89	6.21	33.74	33.05	201	360	Average	VERTICAL
3	5239.00	92.86			85.74	6.30	33.87	33.05	201	360	Average	VERTICAL
4	5240.00	105.21			98.09	6.30	33.87	33.05	201	360	Peak	VERTICAL
5	5350.00	46.79	54.00	-7.21	39.32	6.47	34.06	33.06	201	360	Average	VERTICAL
6	5451.00	59.46	74.00	-14.54	51.70	6.60	34.22	33.06	201	360	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5210 MHz.

Channel 155

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5629.00	65.77	68.20	-2.43	57.66	7.86	31.91	31.66	180	134	Peak	VERTICAL
2	5763.00	96.09			87.84	7.83	32.13	31.71	180	134	Average	VERTICAL
3	5792.00	107.40			99.13	7.82	32.18	31.73	180	134	Peak	VERTICAL
4	5937.00	65.29	68.20	-2.91	56.74	7.96	32.39	31.80	180	134	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5775 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1 + Chain 2
Test Date	Oct. 07, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 2TX)		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5092.00	48.50	54.00	-5.50	41.78	6.11	33.66	33.05	200	304	Average	VERTICAL
2	5096.40	60.81	74.00	-13.19	54.06	6.14	33.66	33.05	200	304	Peak	VERTICAL
3	5177.20	113.08			106.10	6.24	33.79	33.05	200	304	Peak	VERTICAL
4	5187.60	102.29			95.31	6.24	33.79	33.05	200	304	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5112.40	47.66	54.00	-6.34	40.88	6.14	33.69	33.05	216	306	Average	VERTICAL
2	5143.20	59.33	74.00	-14.67	52.47	6.17	33.74	33.05	216	306	Peak	VERTICAL
3	5202.40	112.97			105.93	6.27	33.82	33.05	216	306	Peak	VERTICAL
4	5202.80	102.73			95.69	6.27	33.82	33.05	216	306	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5144.00	59.28	74.00	-14.72	52.38	6.21	33.74	33.05	212	309	Peak	VERTICAL
2	5147.00	46.74	54.00	-7.26	39.84	6.21	33.74	33.05	212	309	Average	VERTICAL
3	5237.60	104.81			97.69	6.30	33.87	33.05	212	309	Average	VERTICAL
4	5237.60	115.35			108.23	6.30	33.87	33.05	212	309	Peak	VERTICAL
5	5354.60	60.95	74.00	-13.05	53.48	6.47	34.06	33.06	212	309	Peak	VERTICAL
6	5363.00	48.08	54.00	-5.92	40.58	6.47	34.09	33.06	212	309	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1 + Chain 2
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 2TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5513.00	65.08	68.20	-3.12	57.21	7.75	31.73	31.61	161	178	Peak	VERTICAL
2	5741.00	116.55			108.33	7.83	32.10	31.71	161	178	Peak	VERTICAL
3	5744.00	105.60			97.38	7.83	32.10	31.71	161	178	Average	VERTICAL
4	5987.00	64.30	68.20	-3.90	55.63	8.01	32.47	31.81	161	178	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5550.00	64.72	68.20	-3.48	56.76	7.80	31.78	31.62	150	178	Peak	VERTICAL
2	5782.00	107.46			99.21	7.82	32.15	31.72	150	178	Average	VERTICAL
3	5784.00	117.33			109.09	7.82	32.15	31.73	150	178	Peak	VERTICAL
4	5947.00	63.70	68.20	-4.50	55.10	7.98	32.42	31.80	150	178	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5590.00	65.62	68.20	-2.58	57.58	7.85	31.83	31.64	156	231	Peak	VERTICAL
2	5821.00	108.15			99.85	7.84	32.21	31.75	156	231	Average	VERTICAL
3	5826.00	118.74			110.40	7.86	32.23	31.75	156	231	Peak	VERTICAL
4	5951.00	63.47	68.20	-4.73	54.87	7.98	32.42	31.80	156	231	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2
Test Date	Oct. 07, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 2TX)		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5148.60	64.28	74.00	-9.72	57.38	6.21	33.74	33.05	212	303	Peak	VERTICAL
2	5149.00	49.78	54.00	-4.22	42.88	6.21	33.74	33.05	212	303	Average	VERTICAL
3	5186.20	101.37			94.39	6.24	33.79	33.05	212	303	Average	VERTICAL
4	5186.20	112.01			105.03	6.24	33.79	33.05	212	303	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5111.20	60.27	74.00	-13.73	53.49	6.14	33.69	33.05	212	306	Peak	VERTICAL
2	5113.60	47.67	54.00	-6.33	40.89	6.14	33.69	33.05	212	306	Average	VERTICAL
3	5201.60	101.90			94.86	6.27	33.82	33.05	212	306	Average	VERTICAL
4	5204.00	112.79			105.75	6.27	33.82	33.05	212	306	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	CableLoss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5146.40	59.95	74.00	-14.05	53.05	6.21	33.74	33.05	218	307	Peak	VERTICAL
2	5150.00	46.71	54.00	-7.29	39.81	6.21	33.74	33.05	218	307	Average	VERTICAL
3	5238.80	103.13			96.01	6.30	33.87	33.05	218	307	Average	VERTICAL
4	5243.60	113.86			106.71	6.30	33.90	33.05	218	307	Peak	VERTICAL
5	5359.40	48.01	54.00	-5.99	40.54	6.47	34.06	33.06	218	307	Average	VERTICAL
6	5365.40	60.79	74.00	-13.21	53.29	6.47	34.09	33.06	218	307	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 2TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5513.00	63.84	68.20	-4.36	55.97	7.75	31.73	31.61	150	173	Peak	VERTICAL
2	5748.00	115.45			107.23	7.83	32.10	31.71	150	173	Peak	VERTICAL
3	5749.00	105.02			96.80	7.83	32.10	31.71	150	173	Average	VERTICAL
4	5991.00	63.20	68.20	-5.00	54.53	8.01	32.47	31.81	150	173	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5551.00	64.09	68.20	-4.11	56.13	7.80	31.78	31.62	150	174	Peak	VERTICAL
2	5781.00	117.28			109.03	7.82	32.15	31.72	150	174	Peak	VERTICAL
3	5783.00	107.11			98.87	7.82	32.15	31.73	150	174	Average	VERTICAL
4	5946.00	63.21	68.20	-4.99	54.61	7.98	32.42	31.80	150	174	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5584.00	62.85	68.20	-5.35	54.81	7.85	31.83	31.64	164	315	Peak	VERTICAL
2	5827.00	117.84			109.50	7.86	32.23	31.75	164	315	Peak	VERTICAL
3	5828.00	108.01			99.67	7.86	32.23	31.75	164	315	Average	VERTICAL
4	5942.00	63.28	68.20	-4.92	54.68	7.98	32.42	31.80	164	315	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2
Test Date	Oct. 07, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 2TX)		

Channel 38

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5146.80	69.69	74.00	-4.31	62.79	6.21	33.74	33.05	224	304 Peak	VERTICAL
2	5148.80	52.96	54.00	-1.04	46.06	6.21	33.74	33.05	224	304 Average	VERTICAL
3	5204.00	98.64			91.60	6.27	33.82	33.05	224	304 Average	VERTICAL
4	5204.00	110.00			102.96	6.27	33.82	33.05	224	304 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5142.80	56.71	74.00	-17.29	49.85	6.17	33.74	33.05	223	36 Peak	VERTICAL
2	5149.60	44.05	54.00	-9.95	37.15	6.21	33.74	33.05	223	36 Average	VERTICAL
3	5222.40	111.56			104.46	6.30	33.85	33.05	223	36 Peak	VERTICAL
4	5234.80	99.87			92.75	6.30	33.87	33.05	223	36 Average	VERTICAL

Item 2, 3 are the fundamental frequency at 5230 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 2TX)		

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5608.00	63.75	68.20	-4.45	55.64	7.87	31.89	31.65	150	177	Peak	VERTICAL
2	5749.00	99.7			91.51	7.83	32.10	31.71	150	177	Average	VERTICAL
3	5749.00	109.6			101.41	7.83	32.10	31.71	150	177	Peak	VERTICAL
4	5930.00	63.85	68.20	-4.35	55.29	7.96	32.39	31.79	150	177	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5638.00	65.29	68.20	-2.91	57.19	7.86	31.91	31.67	151	176	Peak	VERTICAL
2	5786.00	103.36			95.12	7.82	32.15	31.73	151	176	Average	VERTICAL
3	5799.00	113.96			105.69	7.82	32.18	31.73	151	176	Peak	VERTICAL
4	5942.00	65.33	68.20	-2.87	56.73	7.98	32.42	31.80	151	176	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2
Test Date	Oct. 07, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 2TX)		

Channel 42

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5147.00	64.58	74.00	-9.42	57.68	6.21	33.74	33.05	215	307 Peak	VERTICAL
2	5149.00	52.53	54.00	-1.47	45.63	6.21	33.74	33.05	215	307 Average	VERTICAL
3	5239.00	97.07			89.95	6.30	33.87	33.05	215	307 Average	VERTICAL
4	5239.00	106.62			99.50	6.30	33.87	33.05	215	307 Peak	VERTICAL
5	5354.00	50.43	54.00	-3.57	42.96	6.47	34.06	33.06	215	307 Average	VERTICAL
6	5355.00	61.09	74.00	-12.91	53.62	6.47	34.06	33.06	215	307 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5565.00	63.05	68.20	-5.15	55.05	7.82	31.81	31.63	198	179 Peak	VERTICAL
2	5762.00	105.43			97.18	7.83	32.13	31.71	198	179 Peak	VERTICAL
3	5789.00	94.33			86.06	7.82	32.18	31.73	198	179 Average	VERTICAL
4	5962.00	63.16	68.20	-5.04	54.52	7.99	32.45	31.80	198	179 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5775 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Readina: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 3TX)		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5149.80	51.10	54.00	-2.90	44.20	6.21	33.74	33.05	191	44	Average	VERTICAL
2	5150.00	70.73	74.00	-3.27	63.83	6.21	33.74	33.05	191	44	Peak	VERTICAL
3	5178.80	115.95			108.97	6.24	33.79	33.05	191	44	Peak	VERTICAL
4	5179.00	105.14			98.16	6.24	33.79	33.05	191	44	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5118.80	48.70	54.00	-5.30	41.89	6.17	33.69	33.05	177	47	Average	VERTICAL
2	5119.20	60.71	74.00	-13.29	53.90	6.17	33.69	33.05	177	47	Peak	VERTICAL
3	5199.20	104.78			97.74	6.27	33.82	33.05	177	47	Average	VERTICAL
4	5199.20	115.22			108.18	6.27	33.82	33.05	177	47	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5107.40	59.52	74.00	-14.48	52.74	6.14	33.69	33.05	170	217	Peak	VERTICAL
2	5144.60	45.98	54.00	-8.02	39.08	6.21	33.74	33.05	170	217	Average	VERTICAL
3	5243.60	106.01			98.86	6.30	33.90	33.05	170	217	Average	VERTICAL
4	5244.20	116.69			109.54	6.30	33.90	33.05	170	217	Peak	VERTICAL
5	5354.00	47.94	54.00	-6.06	40.47	6.47	34.06	33.06	170	217	Average	VERTICAL
6	5366.00	60.86	74.00	-13.14	53.36	6.47	34.09	33.06	170	217	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 3TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5500.00	65.98	68.20	-2.22	58.15	7.73	31.70	31.60	185	167	Peak	VERTICAL
2	5750.00	106.75			98.53	7.83	32.10	31.71	185	167	Average	VERTICAL
3	5750.00	116.86			108.64	7.83	32.10	31.71	185	167	Peak	VERTICAL
4	5991.00	64.27	68.20	-3.93	55.60	8.01	32.47	31.81	185	167	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5550.00	64.30	68.20	-3.90	56.34	7.80	31.78	31.62	183	167	Peak	VERTICAL
2	5780.00	109.05			100.80	7.82	32.15	31.72	183	167	Average	VERTICAL
3	5786.00	119.74			111.50	7.82	32.15	31.73	183	167	Peak	VERTICAL
4	5944.00	63.24	68.20	-4.96	54.64	7.98	32.42	31.80	183	167	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5578.50	63.86	68.20	-4.34	55.82	7.85	31.83	31.64	165	311	Peak	VERTICAL
2	5829.00	108.32			99.98	7.86	32.23	31.75	165	311	Average	VERTICAL
3	5829.00	119.15			110.81	7.86	32.23	31.75	165	311	Peak	VERTICAL
4	5984.00	64.10	68.20	-4.10	55.43	8.01	32.47	31.81	165	311	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3
Test Date	Oct. 07, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 3TX)		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5146.40	66.19	74.00	-7.81	59.29	6.21	33.74	33.05	187	37	Peak	VERTICAL
2	5147.60	50.59	54.00	-3.41	43.69	6.21	33.74	33.05	187	37	Average	VERTICAL
3	5187.60	104.33			97.35	6.24	33.79	33.05	187	37	Average	VERTICAL
4	5187.60	115.04			108.06	6.24	33.79	33.05	187	37	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5116.40	46.83	54.00	-7.17	40.05	6.14	33.69	33.05	155	136	Average	VERTICAL
2	5116.80	60.27	74.00	-13.73	53.49	6.14	33.69	33.05	155	136	Peak	VERTICAL
3	5202.80	115.99			108.95	6.27	33.82	33.05	155	136	Peak	VERTICAL
4	5207.20	105.43			98.39	6.27	33.82	33.05	155	136	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	CableLoss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5100.80	59.37	74.00	-14.63	52.62	6.14	33.66	33.05	127	135	Peak	VERTICAL
2	5149.40	47.17	54.00	-6.83	40.27	6.21	33.74	33.05	127	135	Average	VERTICAL
3	5232.20	117.60			110.48	6.30	33.87	33.05	127	135	Peak	VERTICAL
4	5237.60	107.99			100.87	6.30	33.87	33.05	127	135	Average	VERTICAL
5	5350.00	48.79	54.00	-5.21	41.32	6.47	34.06	33.06	127	135	Average	VERTICAL
6	5363.00	60.55	74.00	-13.45	53.05	6.47	34.09	33.06	127	135	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 3TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5500.00	65.05	68.20	-3.15	57.22	7.73	31.70	31.60	188	140	Peak	VERTICAL
2	5740.00	106.46			98.24	7.83	32.10	31.71	188	140	Average	VERTICAL
3	5740.00	117.98			109.76	7.83	32.10	31.71	188	140	Peak	VERTICAL
4	5988.00	63.58	68.20	-4.62	54.91	8.01	32.47	31.81	188	140	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5549.00	64.80	68.20	-3.40	56.84	7.80	31.78	31.62	187	164	Peak	VERTICAL
2	5780.00	118.32			110.07	7.82	32.15	31.72	187	164	Peak	VERTICAL
3	5790.00	108.70			100.43	7.82	32.18	31.73	187	164	Average	VERTICAL
4	5950.00	63.84	68.20	-4.36	55.24	7.98	32.42	31.80	187	164	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5587.00	64.06	68.20	-4.14	56.02	7.85	31.83	31.64	166	311	Peak	VERTICAL
2	5829.00	108.61			100.27	7.86	32.23	31.75	166	311	Average	VERTICAL
3	5829.00	118.92			110.58	7.86	32.23	31.75	166	311	Peak	VERTICAL
4	5933.00	64.15	68.20	-4.05	55.59	7.96	32.39	31.79	166	311	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3
Test Date	Oct. 07, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 3TX)		

Channel 38

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5147.20	52.83	54.00	-1.17	45.93	6.21	33.74	33.05	174	132	Average	VERTICAL
2	5147.20	69.73	74.00	-4.27	62.83	6.21	33.74	33.05	174	132	Peak	VERTICAL
3	5202.80	101.48			94.44	6.27	33.82	33.05	174	132	Average	VERTICAL
4	5202.80	111.52			104.48	6.27	33.82	33.05	174	132	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5076.40	60.12	74.00	-13.88	53.43	6.11	33.63	33.05	153	137	Peak	VERTICAL
2	5146.80	47.97	54.00	-6.03	41.07	6.21	33.74	33.05	153	137	Average	VERTICAL
3	5242.00	105.86			98.71	6.30	33.90	33.05	153	137	Average	VERTICAL
4	5246.80	115.03			107.85	6.34	33.90	33.06	153	137	Peak	VERTICAL
5	5378.00	50.69	54.00	-3.31	43.14	6.50	34.11	33.06	153	137	Average	VERTICAL
6	5387.60	62.30	74.00	-11.70	54.75	6.50	34.11	33.06	153	137	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 3TX)		

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5597.00	65.18	68.20	-3.02	57.10	7.87	31.86	31.65	176	141	Peak	VERTICAL
2	5748.00	101.45			93.23	7.83	32.10	31.71	176	141	Average	VERTICAL
3	5748.00	112.13			103.91	7.83	32.10	31.71	176	141	Peak	VERTICAL
4	5985.00	63.98	68.20	-4.22	55.31	8.01	32.47	31.81	176	141	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5646.00	65.48	68.20	-2.72	57.35	7.86	31.94	31.67	192	229	Peak	VERTICAL
2	5801.00	104.40			96.13	7.82	32.18	31.73	192	229	Average	VERTICAL
3	5801.00	114.80			106.53	7.82	32.18	31.73	192	229	Peak	VERTICAL
4	5967.00	65.00	68.20	-3.20	56.36	7.99	32.45	31.80	192	229	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2 + Chain 3
Test Date	Oct. 07, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 3TX)		

Channel 42

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5145.00	65.13	74.00	-8.87	58.23	6.21	33.74	33.05	207	46 Peak	VERTICAL
2	5146.00	52.90	54.00	-1.10	46.00	6.21	33.74	33.05	207	46 Average	VERTICAL
3	5240.00	108.34			101.22	6.30	33.87	33.05	207	46 Peak	VERTICAL
4	5241.00	99.07			91.95	6.30	33.87	33.05	207	46 Average	VERTICAL
5	5351.00	50.64	54.00	-3.36	43.17	6.47	34.06	33.06	207	46 Average	VERTICAL
6	5363.00	61.46	74.00	-12.54	53.96	6.47	34.09	33.06	207	46 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5210 MHz.

Channel 155

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5624.00	63.46	68.20	-4.74	55.35	7.86	31.91	31.66	187	164 Peak	VERTICAL
2	5765.00	96.34			88.10	7.83	32.13	31.72	187	164 Average	VERTICAL
3	5765.00	106.93			98.69	7.83	32.13	31.72	187	164 Peak	VERTICAL
4	5943.00	62.71	68.20	-5.49	54.11	7.98	32.42	31.80	187	164 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5775 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5103.20	50.60	54.00	-3.40	43.85	6.14	33.66	33.05	132	232	Average	VERTICAL
2	5143.60	62.63	74.00	-11.37	55.77	6.17	33.74	33.05	132	232	Peak	VERTICAL
3	5182.80	116.59			109.61	6.24	33.79	33.05	132	232	Peak	VERTICAL
4	5183.60	106.15			99.17	6.24	33.79	33.05	132	232	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5123.20	49.91	54.00	-4.09	43.08	6.17	33.71	33.05	207	316	Average	VERTICAL
2	5123.20	61.79	74.00	-12.21	54.96	6.17	33.71	33.05	207	316	Peak	VERTICAL
3	5202.80	118.37			111.33	6.27	33.82	33.05	207	316	Peak	VERTICAL
4	5203.60	108.47			101.43	6.27	33.82	33.05	207	316	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5146.40	59.19	74.00	-14.81	52.29	6.21	33.74	33.05	220	317	Peak	VERTICAL
2	5148.20	46.45	54.00	-7.55	39.55	6.21	33.74	33.05	220	317	Average	VERTICAL
3	5243.00	109.49			102.34	6.30	33.90	33.05	220	317	Average	VERTICAL
4	5243.60	119.58			112.43	6.30	33.90	33.05	220	317	Peak	VERTICAL
5	5350.00	48.12	54.00	-5.88	40.65	6.47	34.06	33.06	220	317	Average	VERTICAL
6	5366.60	61.66	74.00	-12.34	54.16	6.47	34.09	33.06	220	317	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5581.00	64.28	68.20	-3.92	56.24	7.85	31.83	31.64	196	160	Peak	VERTICAL
2	5741.00	111.04			102.82	7.83	32.10	31.71	196	160	Average	VERTICAL
3	5741.00	121.75			113.53	7.83	32.10	31.71	196	160	Peak	VERTICAL
4	5983.00	63.70	68.20	-4.50	55.03	8.01	32.47	31.81	196	160	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5620.00	64.02	68.20	-4.18	55.92	7.87	31.89	31.66	198	161	Peak	VERTICAL
2	5780.00	110.52			102.27	7.82	32.15	31.72	198	161	Average	VERTICAL
3	5781.00	120.65			112.40	7.82	32.15	31.72	198	161	Peak	VERTICAL
4	5940.00	63.79	68.20	-4.41	55.24	7.96	32.39	31.80	198	161	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5589.00	64.27	68.20	-3.93	56.23	7.85	31.83	31.64	163	313	Peak	VERTICAL
2	5832.00	110.77			102.43	7.86	32.23	31.75	163	313	Average	VERTICAL
3	5832.00	121.02			112.68	7.86	32.23	31.75	163	313	Peak	VERTICAL
4	5966.00	63.95	68.20	-4.25	55.31	7.99	32.45	31.80	163	313	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5148.20	60.72	74.00	-13.28	53.82	6.21	33.74	33.05	185	35	Peak	VERTICAL
2	5149.20	47.65	54.00	-6.35	40.75	6.21	33.74	33.05	185	35	Average	VERTICAL
3	5174.00	109.63			102.65	6.24	33.79	33.05	185	35	Peak	VERTICAL
4	5174.20	99.59			92.61	6.24	33.79	33.05	185	35	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5144.00	46.42	54.00	-7.58	39.52	6.21	33.74	33.05	186	36	Average	VERTICAL
2	5148.40	58.39	74.00	-15.61	51.49	6.21	33.74	33.05	186	36	Peak	VERTICAL
3	5204.00	99.50			92.46	6.27	33.82	33.05	186	36	Average	VERTICAL
4	5204.00	109.67			102.63	6.27	33.82	33.05	186	36	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5109.20	56.27	74.00	-17.73	49.49	6.14	33.69	33.05	207	37	Peak	VERTICAL
2	5149.40	44.07	54.00	-9.93	37.17	6.21	33.74	33.05	207	37	Average	VERTICAL
3	5238.80	111.99			104.87	6.30	33.87	33.05	207	37	Peak	VERTICAL
4	5244.20	102.08			94.93	6.30	33.90	33.05	207	37	Average	VERTICAL
5	5355.20	46.00	54.00	-8.00	38.53	6.47	34.06	33.06	207	37	Average	VERTICAL
6	5377.40	58.65	74.00	-15.35	51.12	6.50	34.09	33.06	207	37	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5589.00	63.56	68.20	-4.64	55.52	7.85	31.83	31.64	188	141	Peak	VERTICAL
2	5740.00	106.79			98.57	7.83	32.10	31.71	188	141	Average	VERTICAL
3	5746.00	117.86			109.64	7.83	32.10	31.71	188	141	Peak	VERTICAL
4	5938.00	63.83	68.20	-4.37	55.28	7.96	32.39	31.80	188	141	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5551.00	65.19	68.20	-3.01	57.23	7.80	31.78	31.62	163	313	Peak	VERTICAL
2	5788.00	107.79			99.55	7.82	32.15	31.73	163	313	Average	VERTICAL
3	5791.00	119.05			110.78	7.82	32.18	31.73	163	313	Peak	VERTICAL
4	5940.00	64.17	68.20	-4.03	55.62	7.96	32.39	31.80	163	313	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5582.00	64.77	68.20	-3.43	56.73	7.85	31.83	31.64	162	314	Peak	VERTICAL
2	5828.00	108.18			99.84	7.86	32.23	31.75	162	314	Average	VERTICAL
3	5832.00	119.23			110.89	7.86	32.23	31.75	162	314	Peak	VERTICAL
4	5934.00	63.66	68.20	-4.54	55.10	7.96	32.39	31.79	162	314	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Channel 38

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5143.60	71.77	74.00	-2.23	64.91	6.17	33.74	33.05	210	26 Peak	VERTICAL
2	5148.80	52.00	54.00	-2.00	45.10	6.21	33.74	33.05	210	26 Average	VERTICAL
3	5204.00	102.99			95.95	6.27	33.82	33.05	210	26 Average	VERTICAL
4	5204.00	112.60			105.56	6.27	33.82	33.05	210	26 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5141.60	59.91	74.00	-14.09	53.05	6.17	33.74	33.05	208	37 Peak	VERTICAL
2	5146.00	48.26	54.00	-5.74	41.36	6.21	33.74	33.05	208	37 Average	VERTICAL
3	5246.80	103.89			96.71	6.34	33.90	33.06	208	37 Average	VERTICAL
4	5247.20	113.49			106.31	6.34	33.90	33.06	208	37 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5585.00	64.95	68.20	-3.25	56.91	7.85	31.83	31.64	191	142	Peak	VERTICAL
2	5740.00	100.66			92.44	7.83	32.10	31.71	191	142	Average	VERTICAL
3	5765.00	111.27			103.03	7.83	32.13	31.72	191	142	Peak	VERTICAL
4	5986.00	63.33	68.20	-4.87	54.66	8.01	32.47	31.81	191	142	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5627.00	64.88	68.20	-3.32	56.77	7.86	31.91	31.66	163	312	Peak	VERTICAL
2	5801.00	116.19			107.92	7.82	32.18	31.73	163	312	Peak	VERTICAL
3	5803.00	104.23			95.97	7.82	32.18	31.74	163	312	Average	VERTICAL
4	5945.00	66.61	68.20	-1.59	58.01	7.98	32.42	31.80	163	312	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 06, 2015		
Test Mode	Mode 1 (Set 1 Dipole antenna / 3.96dBi / 4TX)		

Channel 42

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5119.00	65.54	74.00	-8.46	58.73	6.17	33.69	33.05	196	39	Peak	VERTICAL
2	5131.00	52.88	54.00	-1.12	46.05	6.17	33.71	33.05	196	39	Average	VERTICAL
3	5233.00	99.48			92.36	6.30	33.87	33.05	196	39	Average	VERTICAL
4	5242.00	109.71			102.56	6.30	33.90	33.05	196	39	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5643.00	63.64	68.20	-4.56	55.51	7.86	31.94	31.67	188	311	Peak	VERTICAL
2	5762.00	108.81			100.56	7.83	32.13	31.71	188	311	Peak	VERTICAL
3	5788.00	96.40			88.16	7.82	32.15	31.73	188	311	Average	VERTICAL
4	5943.00	63.47	68.20	-4.73	54.87	7.98	32.42	31.80	188	311	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5775 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1
Test Date	Oct. 17, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*1 / 1TX)		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5148.80	60.15	74.00	-13.85	53.25	6.21	33.74	33.05	205	225	Peak	VERTICAL
2	5150.00	46.29	54.00	-7.71	39.39	6.21	33.74	33.05	205	225	Average	VERTICAL
3	5173.20	98.09			91.13	6.24	33.77	33.05	205	225	Average	VERTICAL
4	5178.00	109.89			102.91	6.24	33.79	33.05	205	225	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5114.00	43.30	54.00	-10.70	36.52	6.14	33.69	33.05	200	229	Average	VERTICAL
2	5148.80	55.45	74.00	-18.55	48.55	6.21	33.74	33.05	200	229	Peak	VERTICAL
3	5206.40	98.71			91.67	6.27	33.82	33.05	200	229	Average	VERTICAL
4	5206.80	109.08			102.04	6.27	33.82	33.05	200	229	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5098.40	54.50	74.00	-19.50	47.75	6.14	33.66	33.05	201	326	Peak	HORIZONTAL
2	5150.00	42.17	54.00	-11.83	35.27	6.21	33.74	33.05	201	326	Average	HORIZONTAL
3	5232.80	88.02			80.90	6.30	33.87	33.05	201	326	Average	HORIZONTAL
4	5234.60	97.41			90.29	6.30	33.87	33.05	201	326	Peak	HORIZONTAL
5	5351.60	44.58	54.00	-9.42	37.11	6.47	34.06	33.06	201	326	Average	HORIZONTAL
6	5373.20	56.47	74.00	-17.53	48.97	6.47	34.09	33.06	201	326	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*1 / 1TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5510.70	65.10	68.20	-3.10	57.28	7.73	31.70	31.61	172	133	Peak	VERTICAL
2	5741.70	117.40			109.18	7.83	32.10	31.71	172	133	Peak	VERTICAL
3	5748.30	106.45			98.23	7.83	32.10	31.71	172	133	Average	VERTICAL
4	5990.30	65.51	68.20	-2.69	56.84	8.01	32.47	31.81	172	133	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5551.00	63.99	68.20	-4.21	56.03	7.80	31.78	31.62	172	134	Peak	VERTICAL
2	5786.20	116.88			108.64	7.82	32.15	31.73	172	134	Peak	VERTICAL
3	5787.40	106.47			98.23	7.82	32.15	31.73	172	134	Average	VERTICAL
4	6033.40	65.05	68.20	-3.15	56.20	8.08	32.61	31.84	172	134	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5588.60	64.80	68.20	-3.40	56.76	7.85	31.83	31.64	170	132	Peak	VERTICAL
2	5821.40	107.17			98.87	7.84	32.21	31.75	170	132	Average	VERTICAL
3	5826.20	117.58			109.24	7.86	32.23	31.75	170	132	Peak	VERTICAL
4	6096.20	64.43	68.20	-3.77	55.39	8.15	32.79	31.90	170	132	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1
Test Date	Oct. 17, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*1 / 1TX)		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5146.00	59.10	74.00	-14.90	52.20	6.21	33.74	33.05	200	191	Peak	VERTICAL
2	5148.80	45.11	54.00	-8.89	38.21	6.21	33.74	33.05	200	191	Average	VERTICAL
3	5186.00	107.17			100.19	6.24	33.79	33.05	200	191	Peak	VERTICAL
4	5186.80	96.18			89.20	6.24	33.79	33.05	200	191	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5117.20	43.05	54.00	-10.95	36.27	6.14	33.69	33.05	200	231	Average	VERTICAL
2	5126.80	55.72	74.00	-18.28	48.89	6.17	33.71	33.05	200	231	Peak	VERTICAL
3	5204.80	107.74			100.70	6.27	33.82	33.05	200	231	Peak	VERTICAL
4	5207.20	97.58			90.54	6.27	33.82	33.05	200	231	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5111.00	55.52	74.00	-18.48	48.74	6.14	33.69	33.05	200	227	Peak	VERTICAL
2	5150.00	42.63	54.00	-11.37	35.73	6.21	33.74	33.05	200	227	Average	VERTICAL
3	5243.60	107.91			100.76	6.30	33.90	33.05	200	227	Peak	VERTICAL
4	5246.00	97.73			90.55	6.34	33.90	33.06	200	227	Average	VERTICAL
5	5350.40	44.35	54.00	-9.65	36.88	6.47	34.06	33.06	200	227	Average	VERTICAL
6	5354.60	57.60	74.00	-16.40	50.13	6.47	34.06	33.06	200	227	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*1 / 1TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5508.50	64.24	68.20	-3.96	56.42	7.73	31.70	31.61	171	131	Peak	VERTICAL
2	5747.20	115.11			106.89	7.83	32.10	31.71	171	131	Peak	VERTICAL
3	5748.30	104.90			96.68	7.83	32.10	31.71	171	131	Average	VERTICAL
4	5991.40	64.67	68.20	-3.53	56.00	8.01	32.47	31.81	171	131	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5549.60	64.33	68.20	-3.87	56.37	7.80	31.78	31.62	174	135	Peak	VERTICAL
2	5788.30	115.76			107.52	7.82	32.15	31.73	174	135	Peak	VERTICAL
3	5789.40	105.60			97.33	7.82	32.18	31.73	174	135	Average	VERTICAL
4	6032.50	65.27	68.20	-2.93	56.42	8.08	32.61	31.84	174	135	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5588.50	64.07	68.20	-4.13	56.03	7.85	31.83	31.64	171	133	Peak	VERTICAL
2	5828.30	106.70			98.36	7.86	32.23	31.75	171	133	Average	VERTICAL
3	5830.50	117.01			108.67	7.86	32.23	31.75	171	133	Peak	VERTICAL
4	6075.80	64.09	68.20	-4.11	55.12	8.12	32.73	31.88	171	133	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1
Test Date	Oct. 17, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*1 / 1TX)		

Channel 38

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5144.80	68.11	74.00	-5.89	61.21	6.21	33.74	33.05	206	226	Peak	VERTICAL
2	5150.00	52.95	54.00	-1.05	46.05	6.21	33.74	33.05	206	226	Average	VERTICAL
3	5198.00	106.47			99.43	6.27	33.82	33.05	206	226	Peak	VERTICAL
4	5207.20	96.39			89.35	6.27	33.82	33.05	206	226	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5109.40	56.57	74.00	-17.43	49.79	6.14	33.69	33.05	211	222	Peak	VERTICAL
2	5147.80	44.03	54.00	-9.97	37.13	6.21	33.74	33.05	211	222	Average	VERTICAL
3	5237.80	105.74			98.62	6.30	33.87	33.05	211	222	Peak	VERTICAL
4	5244.40	96.08			88.93	6.30	33.90	33.05	211	222	Average	VERTICAL
5	5372.80	45.58	54.00	-8.42	38.08	6.47	34.09	33.06	211	222	Average	VERTICAL
6	5375.20	57.83	74.00	-16.17	50.30	6.50	34.09	33.06	211	222	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*1 / 1TX)		

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5590.60	64.03	68.20	-4.17	55.99	7.85	31.83	31.64	175	135	Peak	VERTICAL
2	5744.20	111.53			103.31	7.83	32.10	31.71	175	135	Peak	VERTICAL
3	5747.80	100.98			92.76	7.83	32.10	31.71	175	135	Average	VERTICAL
4	5931.40	64.12	68.20	-4.08	55.56	7.96	32.39	31.79	175	135	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5549.00	63.85	68.20	-4.35	55.89	7.80	31.78	31.62	177	139	Peak	VERTICAL
2	5804.60	101.89			93.63	7.82	32.18	31.74	177	139	Average	VERTICAL
3	5809.40	112.49			104.18	7.84	32.21	31.74	177	139	Peak	VERTICAL
4	5925.80	64.81	68.20	-3.39	56.25	7.96	32.39	31.79	177	139	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1
Test Date	Oct. 17, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*1 / 1TX)		

Channel 42

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5146.00	65.24	74.00	-8.76	58.34	6.21	33.74	33.05	201	225	Peak	VERTICAL
2	5150.00	52.82	54.00	-1.18	45.92	6.21	33.74	33.05	201	225	Average	VERTICAL
3	5200.40	92.92			85.88	6.27	33.82	33.05	201	225	Average	VERTICAL
4	5212.40	102.77			95.70	6.27	33.85	33.05	201	225	Peak	VERTICAL
5	5350.80	47.93	54.00	-6.07	40.46	6.47	34.06	33.06	201	225	Average	VERTICAL
6	5351.60	59.22	74.00	-14.78	51.75	6.47	34.06	33.06	201	225	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5632.00	63.85	68.20	-4.35	55.74	7.86	31.91	31.66	173	130	Peak	VERTICAL
2	5759.00	107.60			99.35	7.83	32.13	31.71	173	130	Peak	VERTICAL
3	5762.00	95.68			87.43	7.83	32.13	31.71	173	130	Average	VERTICAL
4	5943.00	65.00	68.20	-3.20	56.40	7.98	32.42	31.80	173	130	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5775 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1 + Chain 2
Test Date	Oct. 17, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*1, (2B)1.66dBi*1 / 2TX)		

Channel 36

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5144.00	58.92	74.00	-15.08	52.02	6.21	33.74	33.05	200	225	Peak	VERTICAL
2	5147.80	46.09	54.00	-7.91	39.19	6.21	33.74	33.05	200	225	Average	VERTICAL
3	5177.80	106.28			99.30	6.24	33.79	33.05	200	225	Peak	VERTICAL
4	5186.40	95.11			88.13	6.24	33.79	33.05	200	225	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5124.00	45.78	54.00	-8.22	38.95	6.17	33.71	33.05	200	127	Average	HORIZONTAL
2	5148.80	57.98	74.00	-16.02	51.08	6.21	33.74	33.05	200	127	Peak	HORIZONTAL
3	5194.80	96.54			89.50	6.27	33.82	33.05	200	127	Average	HORIZONTAL
4	5194.80	107.87			100.83	6.27	33.82	33.05	200	127	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5105.60	45.17	54.00	-8.83	38.39	6.14	33.69	33.05	200	232	Average	VERTICAL
2	5124.20	58.09	74.00	-15.91	51.26	6.17	33.71	33.05	200	232	Peak	VERTICAL
3	5237.60	108.60			101.48	6.30	33.87	33.05	200	232	Peak	VERTICAL
4	5241.80	97.03			89.88	6.30	33.90	33.05	200	232	Average	VERTICAL
5	5367.20	60.02	74.00	-13.98	52.52	6.47	34.09	33.06	200	232	Peak	VERTICAL
6	5373.80	46.81	54.00	-7.19	39.28	6.50	34.09	33.06	200	232	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1 + Chain 2
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*1, (2B)1.66dBi*1 / 2TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5498.60	64.18	68.20	-4.02	56.35	7.73	31.70	31.60	150	178 Peak	VERTICAL
2	5742.80	117.52			109.30	7.83	32.10	31.71	150	178 Peak	VERTICAL
3	5747.40	107.52			99.30	7.83	32.10	31.71	150	178 Average	VERTICAL
4	5979.30	64.02	68.20	-4.18	55.35	8.01	32.47	31.81	150	178 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5537.80	63.59	68.20	-4.61	55.68	7.78	31.75	31.62	155	176 Peak	VERTICAL
2	5782.60	108.64			100.39	7.82	32.15	31.72	155	176 Average	VERTICAL
3	5782.60	118.32			110.07	7.82	32.15	31.72	155	176 Peak	VERTICAL
4	6032.20	64.78	68.20	-3.42	55.93	8.08	32.61	31.84	155	176 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5576.60	64.24	68.20	-3.96	56.19	7.85	31.83	31.63	144	178 Peak	VERTICAL
2	5827.40	109.04			100.70	7.86	32.23	31.75	144	178 Average	VERTICAL
3	5832.20	118.89			110.55	7.86	32.23	31.75	144	178 Peak	VERTICAL
4	5935.40	64.27	68.20	-3.93	55.71	7.96	32.39	31.79	144	178 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2
Test Date	Oct. 17, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*1, (2B)1.66dBi*1 / 2TX)		

Channel 36

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5148.40	44.39	54.00	-9.61	37.49	6.21	33.74	33.05	200	219 Average	VERTICAL
2	5148.80	56.47	74.00	-17.53	49.57	6.21	33.74	33.05	200	219 Peak	VERTICAL
3	5186.00	95.26			88.28	6.24	33.79	33.05	200	219 Average	VERTICAL
4	5187.60	105.58			98.60	6.24	33.79	33.05	200	219 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5114.80	56.24	74.00	-17.76	49.46	6.14	33.69	33.05	200	128 Peak	HORIZONTAL
2	5127.20	43.32	54.00	-10.68	36.49	6.17	33.71	33.05	200	128 Average	HORIZONTAL
3	5194.80	95.83			88.79	6.27	33.82	33.05	200	128 Average	HORIZONTAL
4	5197.20	107.31			100.27	6.27	33.82	33.05	200	128 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5113.40	42.54	54.00	-11.46	35.76	6.14	33.69	33.05	200	220 Average	VERTICAL
2	5125.40	55.41	74.00	-18.59	48.58	6.17	33.71	33.05	200	220 Peak	VERTICAL
3	5242.40	96.32			89.17	6.30	33.90	33.05	200	220 Average	VERTICAL
4	5242.40	106.84			99.69	6.30	33.90	33.05	200	220 Peak	VERTICAL
5	5373.20	57.00	74.00	-17.00	49.50	6.47	34.09	33.06	200	220 Peak	VERTICAL
6	5374.40	44.28	54.00	-9.72	36.75	6.50	34.09	33.06	200	220 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*1, (2B)1.66dBi*1 / 2TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5512.90	64.60	68.20	-3.60	56.73	7.75	31.73	31.61	154	178 Peak	VERTICAL
2	5740.60	106.58			98.36	7.83	32.10	31.71	154	178 Average	VERTICAL
3	5741.70	116.30			108.08	7.83	32.10	31.71	154	178 Peak	VERTICAL
4	5985.90	64.26	68.20	-3.94	55.59	8.01	32.47	31.81	154	178 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5552.20	63.85	68.20	-4.35	55.89	7.80	31.78	31.62	151	178 Peak	VERTICAL
2	5781.40	107.77			99.52	7.82	32.15	31.72	151	178 Average	VERTICAL
3	5788.60	117.33			109.09	7.82	32.15	31.73	151	178 Peak	VERTICAL
4	6034.60	65.47	68.20	-2.73	56.62	8.08	32.61	31.84	151	178 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5588.60	65.00	68.20	-3.20	56.96	7.85	31.83	31.64	165	158 Peak	VERTICAL
2	5820.20	118.24			109.93	7.84	32.21	31.74	165	158 Peak	VERTICAL
3	5827.40	108.35			100.01	7.86	32.23	31.75	165	158 Average	VERTICAL
4	6072.20	64.64	68.20	-3.56	55.66	8.12	32.73	31.87	165	158 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2
Test Date	Oct. 17, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*1, (2B)1.66dBi*1 / 2TX)		

Channel 38

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5142.80	70.13	74.00	-3.87	63.27	6.17	33.74	33.05	200	125	Peak	HORIZONTAL
2	5150.00	52.83	54.00	-1.17	45.93	6.21	33.74	33.05	200	125	Average	HORIZONTAL
3	5197.60	94.49			87.45	6.27	33.82	33.05	200	125	Average	HORIZONTAL
4	5202.80	105.19			98.15	6.27	33.82	33.05	200	125	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5146.00	56.69	74.00	-17.31	49.79	6.21	33.74	33.05	200	220	Peak	VERTICAL
2	5149.00	44.06	54.00	-9.94	37.16	6.21	33.74	33.05	200	220	Average	VERTICAL
3	5234.20	105.42			98.30	6.30	33.87	33.05	200	220	Peak	VERTICAL
4	5243.20	95.63			88.48	6.30	33.90	33.05	200	220	Average	VERTICAL
5	5374.00	45.70	54.00	-8.30	38.17	6.50	34.09	33.06	200	220	Average	VERTICAL
6	5375.20	57.14	74.00	-16.86	49.61	6.50	34.09	33.06	200	220	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*1, (2B)1.66dBi*1 / 2TX)		

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5607.40	64.36	68.20	-3.84	56.28	7.87	31.86	31.65	166	230	Peak	VERTICAL
2	5747.80	112.15			103.93	7.83	32.10	31.71	166	230	Peak	VERTICAL
3	5749.00	101.46			93.24	7.83	32.10	31.71	166	230	Average	VERTICAL
4	6009.40	63.20	68.20	-5.00	54.49	8.03	32.50	31.82	166	230	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5637.80	64.67	68.20	-3.53	56.57	7.86	31.91	31.67	159	232	Peak	VERTICAL
2	5789.00	104.42			96.15	7.82	32.18	31.73	159	232	Average	VERTICAL
3	5801.00	114.52			106.25	7.82	32.18	31.73	159	232	Peak	VERTICAL
4	5951.00	64.31	68.20	-3.89	55.71	7.98	32.42	31.80	159	232	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2
Test Date	Oct. 17, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*1, (2B)1.66dBi*1 / 2TX)		

Channel 42

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5146.00	52.73	54.00	-1.27	45.83	6.21	33.74	33.05	200	101	Average	HORIZONTAL
2	5147.60	64.60	74.00	-9.40	57.70	6.21	33.74	33.05	200	101	Peak	HORIZONTAL
3	5221.20	101.67			94.57	6.30	33.85	33.05	200	101	Peak	HORIZONTAL
4	5222.80	91.54			84.44	6.30	33.85	33.05	200	101	Average	HORIZONTAL
5	5366.80	46.11	54.00	-7.89	38.61	6.47	34.09	33.06	200	101	Average	HORIZONTAL
6	5366.80	56.56	74.00	-17.44	49.06	6.47	34.09	33.06	200	101	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5643.00	64.28	68.20	-3.92	56.15	7.86	31.94	31.67	175	234	Peak	VERTICAL
2	5759.00	96.71			88.46	7.83	32.13	31.71	175	234	Average	VERTICAL
3	5762.00	107.74			99.49	7.83	32.13	31.71	175	234	Peak	VERTICAL
4	5976.00	62.55	68.20	-5.65	53.88	8.01	32.47	31.81	175	234	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5775 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Readina: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3
Test Date	Oct. 16, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*1 / 3TX)		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5144.80	47.67	54.00	-6.33	40.77	6.21	33.74	33.05	202	15	Average	VERTICAL
2	5145.20	61.21	74.00	-12.79	54.31	6.21	33.74	33.05	202	15	Peak	VERTICAL
3	5174.40	102.20			95.22	6.24	33.79	33.05	202	15	Average	VERTICAL
4	5174.80	112.69			105.71	6.24	33.79	33.05	202	15	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5116.80	46.69	54.00	-7.31	39.91	6.14	33.69	33.05	201	52	Average	VERTICAL
2	5127.60	59.00	74.00	-15.00	52.17	6.17	33.71	33.05	201	52	Peak	VERTICAL
3	5206.40	103.44			96.40	6.27	33.82	33.05	201	52	Average	VERTICAL
4	5206.80	114.22			107.18	6.27	33.82	33.05	201	52	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5131.40	57.92	74.00	-16.08	51.09	6.17	33.71	33.05	198	54	Peak	VERTICAL
2	5150.00	45.39	54.00	-8.61	38.49	6.21	33.74	33.05	198	54	Average	VERTICAL
3	5245.40	114.48			107.33	6.30	33.90	33.05	198	54	Peak	VERTICAL
4	5246.00	103.66			96.48	6.34	33.90	33.06	198	54	Average	VERTICAL
5	5352.80	47.15	54.00	-6.85	39.68	6.47	34.06	33.06	198	54	Average	VERTICAL
6	5387.00	59.78	74.00	-14.22	52.23	6.50	34.11	33.06	198	54	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*1 / 3TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5498.60	65.16	68.20	-3.04	57.33	7.73	31.70	31.60	154	177	Peak	VERTICAL
2	5739.50	107.96			99.74	7.83	32.10	31.71	154	177	Average	VERTICAL
3	5749.40	118.06			109.84	7.83	32.10	31.71	154	177	Peak	VERTICAL
4	5991.40	65.65	68.20	-2.55	56.98	8.01	32.47	31.81	154	177	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5551.00	63.32	68.20	-4.88	55.36	7.80	31.78	31.62	145	176	Peak	VERTICAL
2	5789.80	108.32			100.05	7.82	32.18	31.73	145	176	Average	VERTICAL
3	5789.80	118.36			110.09	7.82	32.18	31.73	145	176	Peak	VERTICAL
4	6033.40	64.30	68.20	-3.90	55.45	8.08	32.61	31.84	145	176	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5579.00	64.10	68.20	-4.10	56.06	7.85	31.83	31.64	151	175	Peak	VERTICAL
2	5828.60	108.89			100.55	7.86	32.23	31.75	151	175	Average	VERTICAL
3	5828.60	118.58			110.24	7.86	32.23	31.75	151	175	Peak	VERTICAL
4	6075.80	64.13	68.20	-4.07	55.16	8.12	32.73	31.88	151	175	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3
Test Date	Oct. 16, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*1 / 3TX)		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5148.80	47.60	54.00	-6.40	40.70	6.21	33.74	33.05	202	158	Average	VERTICAL
2	5149.20	59.79	74.00	-14.21	52.89	6.21	33.74	33.05	202	158	Peak	VERTICAL
3	5174.40	101.31			94.33	6.24	33.79	33.05	202	158	Average	VERTICAL
4	5174.80	111.97			104.99	6.24	33.79	33.05	202	158	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5122.80	59.50	74.00	-14.50	52.67	6.17	33.71	33.05	190	309	Peak	VERTICAL
2	5123.20	46.86	54.00	-7.14	40.03	6.17	33.71	33.05	190	309	Average	VERTICAL
3	5203.20	102.30			95.26	6.27	33.82	33.05	190	309	Average	VERTICAL
4	5208.00	112.95			105.88	6.27	33.85	33.05	190	309	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5096.60	45.38	54.00	-8.62	38.63	6.14	33.66	33.05	200	228	Average	VERTICAL
2	5102.00	58.67	74.00	-15.33	51.92	6.14	33.66	33.05	200	228	Peak	VERTICAL
3	5233.40	102.35			95.23	6.30	33.87	33.05	200	228	Average	VERTICAL
4	5238.20	112.62			105.50	6.30	33.87	33.05	200	228	Peak	VERTICAL
5	5358.20	46.94	54.00	-7.06	39.47	6.47	34.06	33.06	200	228	Average	VERTICAL
6	5372.60	59.89	74.00	-14.11	52.39	6.47	34.09	33.06	200	228	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*1 / 3TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5497.50	64.76	68.20	-3.44	56.93	7.73	31.70	31.60	185	171	Peak	VERTICAL
2	5746.10	115.65			107.43	7.83	32.10	31.71	185	171	Peak	VERTICAL
3	5748.30	105.48			97.26	7.83	32.10	31.71	185	171	Average	VERTICAL
4	6002.40	63.25	68.20	-4.95	54.54	8.03	32.50	31.82	185	171	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5537.80	64.67	68.20	-3.53	56.76	7.78	31.75	31.62	179	168	Peak	VERTICAL
2	5786.20	117.77			109.53	7.82	32.15	31.73	179	168	Peak	VERTICAL
3	5787.40	106.70			98.46	7.82	32.15	31.73	179	168	Average	VERTICAL
4	6032.20	65.36	68.20	-2.84	56.51	8.08	32.61	31.84	179	168	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5586.20	64.26	68.20	-3.94	56.22	7.85	31.83	31.64	163	160	Peak	VERTICAL
2	5828.60	117.43			109.09	7.86	32.23	31.75	163	160	Peak	VERTICAL
3	5829.80	107.31			98.97	7.86	32.23	31.75	163	160	Peak	VERTICAL
4	6060.20	64.89	68.20	-3.31	55.99	8.10	32.67	31.87	163	160	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3
Test Date	Oct. 16, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*1 / 3TX)		

Channel 38

	Freq	Level	Limit Line	Over Limit	Read Level	CableLoss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5149.60	52.64	54.00	-1.36	45.74	6.21	33.74	33.05	196	316	Average	VERTICAL
2	5149.60	65.95	74.00	-8.05	59.05	6.21	33.74	33.05	196	316	Peak	VERTICAL
3	5204.00	99.93			92.89	6.27	33.82	33.05	196	316	Average	VERTICAL
4	5204.40	109.54			102.50	6.27	33.82	33.05	196	316	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5147.60	59.45	74.00	-14.55	52.55	6.21	33.74	33.05	197	319	Peak	VERTICAL
2	5148.80	47.40	54.00	-6.60	40.50	6.21	33.74	33.05	197	319	Average	VERTICAL
3	5244.00	111.71			104.56	6.30	33.90	33.05	197	319	Peak	VERTICAL
4	5244.40	102.02			94.87	6.30	33.90	33.05	197	319	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*1 / 3TX)		

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5601.40	63.85	68.20	-4.35	55.77	7.87	31.86	31.65	160	180	Peak	VERTICAL
2	5758.60	99.39			91.14	7.83	32.13	31.71	160	180	Average	VERTICAL
3	5761.00	110.78			102.53	7.83	32.13	31.71	160	180	Peak	VERTICAL
4	5932.60	64.26	68.20	-3.94	55.70	7.96	32.39	31.79	160	180	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5625.80	65.37	68.20	-2.83	57.26	7.86	31.91	31.66	162	233	Peak	VERTICAL
2	5789.00	103.51			95.24	7.82	32.18	31.73	162	233	Average	VERTICAL
3	5799.80	114.27			106.00	7.82	32.18	31.73	162	233	Peak	VERTICAL
4	5960.60	64.75	68.20	-3.45	56.11	7.99	32.45	31.80	162	233	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2 + Chain 3
Test Date	Oct. 17, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*1 / 3TX)		

Channel 42

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5145.00	63.70	74.00	-10.30	56.80	6.21	33.74	33.05	249	158 Peak	HORIZONTAL
2	5149.00	52.98	54.00	-1.02	46.08	6.21	33.74	33.05	249	158 Average	HORIZONTAL
3	5197.00	92.02			84.98	6.27	33.82	33.05	249	158 Average	HORIZONTAL
4	5198.00	101.80			94.76	6.27	33.82	33.05	249	158 Peak	HORIZONTAL
5	5354.00	59.74	74.00	-14.26	52.27	6.47	34.06	33.06	249	158 Peak	HORIZONTAL
6	5355.00	48.62	54.00	-5.38	41.15	6.47	34.06	33.06	249	158 Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5644.00	65.21	68.20	-2.99	57.08	7.86	31.94	31.67	173	234 Peak	VERTICAL
2	5759.00	96.88			88.63	7.83	32.13	31.71	173	234 Average	VERTICAL
3	5759.00	108.32			100.07	7.83	32.13	31.71	173	234 Peak	VERTICAL
4	5934.00	63.42	68.20	-4.78	54.86	7.96	32.39	31.79	173	234 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5775 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 16, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5147.20	47.63	54.00	-6.37	40.73	6.21	33.74	33.05	200	18	Average	VERTICAL
2	5149.00	59.86	74.00	-14.14	52.96	6.21	33.74	33.05	200	18	Peak	VERTICAL
3	5187.00	101.24			94.26	6.24	33.79	33.05	200	18	Average	VERTICAL
4	5187.40	111.23			104.25	6.24	33.79	33.05	200	18	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5116.00	47.42	54.00	-6.58	40.64	6.14	33.69	33.05	200	309	Average	HORIZONTAL
2	5124.80	59.19	74.00	-14.81	52.36	6.17	33.71	33.05	200	309	Peak	HORIZONTAL
3	5195.60	112.17			105.13	6.27	33.82	33.05	200	309	Peak	HORIZONTAL
4	5196.40	102.20			95.16	6.27	33.82	33.05	200	309	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5109.80	58.30	74.00	-15.70	51.52	6.14	33.69	33.05	200	58	Peak	VERTICAL
2	5115.80	46.45	54.00	-7.55	39.67	6.14	33.69	33.05	200	58	Average	VERTICAL
3	5232.80	103.32			96.20	6.30	33.87	33.05	200	58	Average	VERTICAL
4	5232.80	112.44			105.32	6.30	33.87	33.05	200	58	Peak	VERTICAL
5	5366.00	47.89	54.00	-6.11	40.39	6.47	34.09	33.06	200	58	Average	VERTICAL
6	5374.40	59.63	74.00	-14.37	52.10	6.50	34.09	33.06	200	58	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5509.60	65.46	68.20	-2.74	57.64	7.73	31.70	31.61	153	229	Peak	VERTICAL
2	5750.50	116.11			107.89	7.83	32.10	31.71	153	229	Peak	VERTICAL
3	5751.60	106.18			97.96	7.83	32.10	31.71	153	229	Average	VERTICAL
4	5991.40	64.58	68.20	-3.62	55.91	8.01	32.47	31.81	153	229	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5539.00	62.47	68.20	-5.73	54.56	7.78	31.75	31.62	217	221	Peak	HORIZONTAL
2	5791.00	107.36			99.09	7.82	32.18	31.73	217	221	Average	HORIZONTAL
3	5791.00	117.14			108.87	7.82	32.18	31.73	217	221	Peak	HORIZONTAL
4	6019.00	63.81	68.20	-4.39	55.04	8.05	32.56	31.84	217	221	Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5579.00	64.14	68.20	-4.06	56.10	7.85	31.83	31.64	151	227	Peak	VERTICAL
2	5831.00	108.98			100.64	7.86	32.23	31.75	151	227	Average	VERTICAL
3	5832.20	119.28			110.94	7.86	32.23	31.75	151	227	Peak	VERTICAL
4	6062.60	63.80	68.20	-4.40	54.90	8.10	32.67	31.87	151	227	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 16, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Channel 36

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5145.40	60.40	74.00	-13.60	53.50	6.21	33.74	33.05	202	286 Peak	HORIZONTAL
2	5148.20	47.94	54.00	-6.06	41.04	6.21	33.74	33.05	202	286 Average	HORIZONTAL
3	5173.80	110.84			103.86	6.24	33.79	33.05	202	286 Peak	HORIZONTAL
4	5178.60	100.65			93.67	6.24	33.79	33.05	202	286 Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5123.60	47.56	54.00	-6.44	40.73	6.17	33.71	33.05	202	299 Average	HORIZONTAL
2	5134.40	59.35	74.00	-14.65	52.52	6.17	33.71	33.05	202	299 Peak	HORIZONTAL
3	5198.80	101.63			94.59	6.27	33.82	33.05	202	299 Average	HORIZONTAL
4	5203.60	111.29			104.25	6.27	33.82	33.05	202	299 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5109.20	58.54	74.00	-15.46	51.76	6.14	33.69	33.05	200	38 Peak	VERTICAL
2	5111.60	46.17	54.00	-7.83	39.39	6.14	33.69	33.05	200	38 Average	VERTICAL
3	5232.80	102.16			95.04	6.30	33.87	33.05	200	38 Average	VERTICAL
4	5233.40	111.74			104.62	6.30	33.87	33.05	200	38 Peak	VERTICAL
5	5362.40	47.82	54.00	-6.18	40.32	6.47	34.09	33.06	200	38 Average	VERTICAL
6	5372.00	59.45	74.00	-14.55	51.95	6.47	34.09	33.06	200	38 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5499.70	64.65	68.20	-3.55	56.82	7.73	31.70	31.60	178	137	Peak	VERTICAL
2	5740.60	104.76			96.54	7.83	32.10	31.71	178	137	Average	VERTICAL
3	5746.10	115.75			107.53	7.83	32.10	31.71	178	137	Peak	VERTICAL
4	5993.60	63.76	68.20	-4.44	55.04	8.03	32.50	31.81	178	137	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5551.00	66.15	68.20	-2.05	58.19	7.80	31.78	31.62	178	140	Peak	VERTICAL
2	5789.80	106.36			98.09	7.82	32.18	31.73	178	140	Average	VERTICAL
3	5792.20	116.10			107.83	7.82	32.18	31.73	178	140	Peak	VERTICAL
4	6033.40	64.99	68.20	-3.21	56.14	8.08	32.61	31.84	178	140	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5574.20	63.58	68.20	-4.62	55.58	7.82	31.81	31.63	150	229	Peak	VERTICAL
2	5822.60	115.89			107.55	7.86	32.23	31.75	150	229	Peak	VERTICAL
3	5828.60	106.71			98.37	7.86	32.23	31.75	150	229	Average	VERTICAL
4	6055.40	64.00	68.20	-4.20	55.10	8.10	32.67	31.87	150	229	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 16, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Channel 38

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5148.00	71.20	74.00	-2.80	64.30	6.21	33.74	33.05	202	18	Peak	VERTICAL
2	5148.40	52.72	54.00	-1.28	45.82	6.21	33.74	33.05	202	18	Average	VERTICAL
3	5204.00	100.01			92.97	6.27	33.82	33.05	202	18	Average	VERTICAL
4	5204.00	110.38			103.34	6.27	33.82	33.05	202	18	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5143.60	58.92	74.00	-15.08	52.06	6.17	33.74	33.05	200	17	Peak	VERTICAL
2	5148.00	46.96	54.00	-7.04	40.06	6.21	33.74	33.05	200	17	Average	VERTICAL
3	5223.60	100.22			93.12	6.30	33.85	33.05	200	17	Average	VERTICAL
4	5233.20	109.88			102.76	6.30	33.87	33.05	200	17	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5603.80	64.45	68.20	-3.75	56.37	7.87	31.86	31.65	168	204	Peak	VERTICAL
2	5746.60	98.55			90.33	7.83	32.10	31.71	168	204	Average	VERTICAL
3	5746.60	109.36			101.14	7.83	32.10	31.71	168	204	Peak	VERTICAL
4	5929.00	63.20	68.20	-5.00	54.64	7.96	32.39	31.79	168	204	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5646.20	63.94	68.20	-4.26	55.81	7.86	31.94	31.67	157	229	Peak	VERTICAL
2	5801.00	101.46			93.19	7.82	32.18	31.73	157	229	Average	VERTICAL
3	5801.00	112.96			104.69	7.82	32.18	31.73	157	229	Peak	VERTICAL
4	5940.20	65.23	68.20	-2.97	56.68	7.96	32.39	31.80	157	229	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 16, 2015		
Test Mode	Mode 2 (Set 5 Polarized Dipole antenna / (2A)3.96dBi*2, (2B)1.66dBi*2 / 4TX)		

Channel 42

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5144.00	66.78	74.00	-7.22	59.88	6.21	33.74	33.05	200	302	Peak	HORIZONTAL
2	5149.00	52.71	54.00	-1.29	45.81	6.21	33.74	33.05	200	302	Average	HORIZONTAL
3	5219.00	106.13			99.06	6.27	33.85	33.05	200	302	Peak	HORIZONTAL
4	5224.00	96.03			88.93	6.30	33.85	33.05	200	302	Average	HORIZONTAL
5	5350.00	49.60	54.00	-4.40	42.13	6.47	34.06	33.06	200	302	Average	HORIZONTAL
6	5353.00	63.24	74.00	-10.76	55.77	6.47	34.06	33.06	200	302	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5635.80	64.43	68.20	-3.77	56.33	7.86	31.91	31.67	161	232	Peak	VERTICAL
2	5746.20	106.96			98.74	7.83	32.10	31.71	161	232	Peak	VERTICAL
3	5761.80	96.38			88.13	7.83	32.13	31.71	161	232	Average	VERTICAL
4	5991.00	63.35	68.20	-4.85	54.68	8.01	32.47	31.81	161	232	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5775 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1
Test Date	Oct. 08, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 1TX)		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5150.00	48.75	54.00	-5.25	41.85	6.21	33.74	33.05	210	353	Average	VERTICAL
2	5150.00	62.37	74.00	-11.63	55.47	6.21	33.74	33.05	210	353	Peak	VERTICAL
3	5172.80	99.34			92.38	6.24	33.77	33.05	210	353	Average	VERTICAL
4	5181.80	110.29			103.31	6.24	33.79	33.05	210	353	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5117.60	46.68	54.00	-7.32	39.90	6.14	33.69	33.05	198	353	Average	VERTICAL
2	5122.00	59.55	74.00	-14.45	52.74	6.17	33.69	33.05	198	353	Peak	VERTICAL
3	5201.60	110.89			103.85	6.27	33.82	33.05	198	353	Peak	VERTICAL
4	5206.40	100.03			92.99	6.27	33.82	33.05	198	353	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	CableLoss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5095.40	46.30	54.00	-7.70	39.55	6.14	33.66	33.05	236	-7	Average	VERTICAL
2	5131.40	58.59	74.00	-15.41	51.76	6.17	33.71	33.05	236	-7	Peak	VERTICAL
3	5232.80	100.50			93.38	6.30	33.87	33.05	236	-7	Average	VERTICAL
4	5236.40	111.28			104.16	6.30	33.87	33.05	236	-7	Peak	VERTICAL
5	5353.40	60.66	74.00	-13.34	53.19	6.47	34.06	33.06	236	-7	Peak	VERTICAL
6	5379.20	47.86	54.00	-6.14	40.31	6.50	34.11	33.06	236	-7	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 1TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5512.48	65.33	68.20	-2.87	57.46	7.75	31.73	31.61	216	352	Peak	VERTICAL
2	5740.32	115.38			107.16	7.83	32.10	31.71	216	352	Peak	VERTICAL
3	5751.84	105.15			96.93	7.83	32.10	31.71	216	352	Average	VERTICAL
4	5991.20	64.82	68.20	-3.38	56.15	8.01	32.47	31.81	216	352	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5550.88	64.99	68.20	-3.21	57.03	7.80	31.78	31.62	215	353	Peak	VERTICAL
2	5781.28	117.54			109.29	7.82	32.15	31.72	215	353	Peak	VERTICAL
3	5786.40	107.17			98.93	7.82	32.15	31.73	215	353	Average	VERTICAL
4	6032.16	64.45	68.20	-3.75	55.60	8.08	32.61	31.84	215	353	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5588.00	63.60	68.20	-4.60	55.56	7.85	31.83	31.64	222	352	Peak	VERTICAL
2	5828.64	107.70			99.36	7.86	32.23	31.75	222	352	Average	VERTICAL
3	5831.20	117.79			109.45	7.86	32.23	31.75	222	352	Peak	VERTICAL
4	6075.68	63.71	68.20	-4.49	54.74	8.12	32.73	31.88	222	352	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1
Test Date	Oct. 14, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 1TX)		

Channel 36

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5146.60	63.55	74.00	-10.45	58.91	5.84	33.27	34.47	8	100 Peak	VERTICAL
2	5150.00	50.08	54.00	-3.92	45.44	5.84	33.27	34.47	8	100 Average	VERTICAL
3	5182.60	114.98			110.30	5.82	33.33	34.47	8	100 Peak	VERTICAL
4	5187.40	104.43			99.75	5.82	33.33	34.47	8	100 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5113.60	59.78	74.00	-14.22	55.19	5.85	33.21	34.47	10	119 Peak	VERTICAL
2	5115.20	47.39	54.00	-6.61	42.80	5.85	33.21	34.47	10	119 Average	VERTICAL
3	5205.60	115.88			111.18	5.81	33.36	34.47	10	119 Peak	VERTICAL
4	5206.80	105.08			100.38	5.81	33.36	34.47	10	119 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5146.40	59.65	74.00	-14.35	55.01	5.84	33.27	34.47	6	130 Peak	VERTICAL
2	5150.00	46.10	54.00	-7.90	41.46	5.84	33.27	34.47	6	130 Average	VERTICAL
3	5243.00	116.15			111.39	5.78	33.45	34.47	6	130 Peak	VERTICAL
4	5246.60	105.35			100.59	5.78	33.45	34.47	6	130 Average	VERTICAL
5	5350.00	45.10	54.00	-8.90	40.21	5.73	33.63	34.47	6	130 Average	VERTICAL
6	5353.00	57.19	74.00	-16.81	52.30	5.73	33.63	34.47	6	130 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 1TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5512.48	63.70	68.20	-4.50	55.83	7.75	31.73	31.61	220	351	Peak	VERTICAL
2	5749.28	103.55			95.33	7.83	32.10	31.71	220	351	Average	VERTICAL
3	5749.28	114.47			106.25	7.83	32.10	31.71	220	351	Peak	VERTICAL
4	5991.20	63.76	68.20	-4.44	55.09	8.01	32.47	31.81	220	351	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5550.88	64.20	68.20	-4.00	56.24	7.80	31.78	31.62	206	353	Peak	VERTICAL
2	5781.28	106.07			97.82	7.82	32.15	31.72	206	353	Average	VERTICAL
3	5788.96	116.99			108.72	7.82	32.18	31.73	206	353	Peak	VERTICAL
4	6032.16	63.98	68.20	-4.22	55.13	8.08	32.61	31.84	206	353	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5589.28	63.99	68.20	-4.21	55.95	7.85	31.83	31.64	223	352	Peak	VERTICAL
2	5827.36	106.06			97.72	7.86	32.23	31.75	223	352	Average	VERTICAL
3	5828.64	116.44			108.10	7.86	32.23	31.75	223	352	Peak	VERTICAL
4	6062.88	63.49	68.20	-4.71	54.51	8.12	32.73	31.87	223	352	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1
Test Date	Oct. 14, 2015 ~ Oct. 15, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 1TX)		

Channel 38

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5148.80	66.25	74.00	-7.75	61.61	5.84	33.27	34.47	13	100 Peak	VERTICAL
2	5150.00	52.74	54.00	-1.26	48.10	5.84	33.27	34.47	13	100 Average	VERTICAL
3	5194.40	111.70			107.00	5.81	33.36	34.47	13	100 Peak	VERTICAL
4	5204.00	101.08			96.38	5.81	33.36	34.47	13	100 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5147.20	47.76	54.00	-6.24	43.12	5.84	33.27	34.47	11	100 Average	VERTICAL
2	5150.00	60.81	74.00	-13.19	56.17	5.84	33.27	34.47	11	100 Peak	VERTICAL
3	5215.60	102.95			98.23	5.80	33.39	34.47	11	100 Average	VERTICAL
4	5238.40	113.43			108.69	5.79	33.42	34.47	11	100 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 1TX)		

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5586.72	64.03	68.20	-4.17	55.99	7.85	31.83	31.64	227	353	Peak	VERTICAL
2	5760.80	111.11			102.86	7.83	32.13	31.71	227	353	Peak	VERTICAL
3	5762.08	100.12			91.87	7.83	32.13	31.71	227	353	Average	VERTICAL
4	6069.28	64.03	68.20	-4.17	55.05	8.12	32.73	31.87	227	353	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5562.40	62.94	68.20	-5.26	54.94	7.82	31.81	31.63	224	352	Peak	VERTICAL
2	5803.04	101.56			93.30	7.82	32.18	31.74	224	352	Average	VERTICAL
3	5805.60	113.28			104.97	7.84	32.21	31.74	224	352	Peak	VERTICAL
4	6018.08	63.81	68.20	-4.39	55.04	8.05	32.56	31.84	224	352	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1
Test Date	Oct. 15, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 1TX)		

Channel 42

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5149.00	63.64	74.00	-10.36	59.00	5.84	33.27	34.47	10	116 Peak	VERTICAL
2	5150.00	52.96	54.00	-1.04	48.32	5.84	33.27	34.47	10	116 Average	VERTICAL
3	5221.00	99.12			94.40	5.80	33.39	34.47	10	116 Average	VERTICAL
4	5244.00	108.78			104.02	5.78	33.45	34.47	10	116 Peak	VERTICAL
5	5350.00	48.60	54.00	-5.40	43.71	5.73	33.63	34.47	10	116 Average	VERTICAL
6	5357.00	60.26	74.00	-13.74	55.37	5.73	33.63	34.47	10	116 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5557.28	62.83	68.20	-5.37	54.87	7.80	31.78	31.62	225	353 Peak	VERTICAL
2	5799.20	106.15			97.88	7.82	32.18	31.73	225	353 Peak	VERTICAL
3	5803.04	95.61			87.35	7.82	32.18	31.74	225	353 Average	VERTICAL
4	6030.88	62.98	68.20	-5.22	54.13	8.08	32.61	31.84	225	353 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5775 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1 + Chain 2
Test Date	Oct. 08, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 2TX)		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5149.40	48.54	54.00	-5.46	41.64	6.21	33.74	33.05	221	355 Average	VERTICAL
2	5149.80	60.69	74.00	-13.31	53.79	6.21	33.74	33.05	221	355 Peak	VERTICAL
3	5174.00	102.48			95.50	6.24	33.79	33.05	221	355 Average	VERTICAL
4	5174.00	112.91			105.93	6.24	33.79	33.05	221	355 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5112.80	48.09	54.00	-5.91	41.31	6.14	33.69	33.05	153	16 Average	VERTICAL
2	5127.20	60.70	74.00	-13.30	53.87	6.17	33.71	33.05	153	16 Peak	VERTICAL
3	5202.40	114.34			107.30	6.27	33.82	33.05	153	16 Peak	VERTICAL
4	5202.80	103.72			96.68	6.27	33.82	33.05	153	16 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5098.40	58.91	74.00	-15.09	52.16	6.14	33.66	33.05	151	342 Peak	VERTICAL
2	5150.00	47.01	54.00	-6.99	40.11	6.21	33.74	33.05	151	342 Average	VERTICAL
3	5237.00	104.51			97.39	6.30	33.87	33.05	151	342 Average	VERTICAL
4	5237.00	114.84			107.72	6.30	33.87	33.05	151	342 Peak	VERTICAL
5	5354.60	47.89	54.00	-6.11	40.42	6.47	34.06	33.06	151	342 Average	VERTICAL
6	5388.20	60.92	74.00	-13.08	53.37	6.50	34.11	33.06	151	342 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1 + Chain 2
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 2TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5512.48	66.92	68.20	-1.28	59.05	7.75	31.73	31.61	228	353	Peak	VERTICAL
2	5740.32	118.57			110.35	7.83	32.10	31.71	228	353	Peak	VERTICAL
3	5750.56	107.73			99.51	7.83	32.10	31.71	228	353	Average	VERTICAL
4	5989.92	64.69	68.20	-3.51	56.02	8.01	32.47	31.81	228	353	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5550.88	65.74	68.20	-2.46	57.78	7.80	31.78	31.62	236	351	Peak	VERTICAL
2	5782.56	119.51			111.26	7.82	32.15	31.72	236	351	Peak	VERTICAL
3	5790.24	109.57			101.30	7.82	32.18	31.73	236	351	Average	VERTICAL
4	6032.16	64.94	68.20	-3.26	56.09	8.08	32.61	31.84	236	351	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5590.56	65.05	68.20	-3.15	57.01	7.85	31.83	31.64	230	359	Peak	VERTICAL
2	5826.08	119.25			110.91	7.86	32.23	31.75	230	359	Peak	VERTICAL
3	5828.64	108.56			100.22	7.86	32.23	31.75	230	359	Average	VERTICAL
4	6059.04	64.46	68.20	-3.74	55.56	8.10	32.67	31.87	230	359	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2
Test Date	Oct. 08, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 2TX)		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5145.40	62.57	74.00	-11.43	55.67	6.21	33.74	33.05	196	340	Peak	VERTICAL
2	5147.60	49.97	54.00	-4.03	43.07	6.21	33.74	33.05	196	340	Average	VERTICAL
3	5188.00	102.63			95.65	6.24	33.79	33.05	196	340	Average	VERTICAL
4	5188.00	113.26			106.28	6.24	33.79	33.05	196	340	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5111.20	60.22	74.00	-13.78	53.44	6.14	33.69	33.05	201	22	Peak	VERTICAL
2	5112.00	48.10	54.00	-5.90	41.32	6.14	33.69	33.05	201	22	Average	VERTICAL
3	5204.40	113.63			106.59	6.27	33.82	33.05	201	22	Peak	VERTICAL
4	5206.80	103.01			95.97	6.27	33.82	33.05	201	22	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5148.80	59.43	74.00	-14.57	52.53	6.21	33.74	33.05	125	8	Peak	VERTICAL
2	5150.00	47.04	54.00	-6.96	40.14	6.21	33.74	33.05	125	8	Average	VERTICAL
3	5238.20	114.37			107.25	6.30	33.87	33.05	125	8	Peak	VERTICAL
4	5240.60	103.50			96.38	6.30	33.87	33.05	125	8	Average	VERTICAL
5	5364.20	60.68	74.00	-13.32	53.18	6.47	34.09	33.06	125	8	Peak	VERTICAL
6	5368.40	48.03	54.00	-5.97	40.53	6.47	34.09	33.06	125	8	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 2TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5500.96	64.66	68.20	-3.54	56.83	7.73	31.70	31.60	227	351	Peak	VERTICAL
2	5748.00	106.75			98.53	7.83	32.10	31.71	227	351	Average	VERTICAL
3	5748.00	116.75			108.53	7.83	32.10	31.71	227	351	Peak	VERTICAL
4	5993.76	62.98	68.20	-5.22	54.26	8.03	32.50	31.81	227	351	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5550.88	65.25	68.20	-2.95	57.29	7.80	31.78	31.62	222	351	Peak	VERTICAL
2	5782.56	119.42			111.17	7.82	32.15	31.72	222	351	Peak	VERTICAL
3	5790.24	109.42			101.15	7.82	32.18	31.73	222	351	Average	VERTICAL
4	6018.08	64.93	68.20	-3.27	56.16	8.05	32.56	31.84	222	351	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5590.56	64.59	68.20	-3.61	56.55	7.85	31.83	31.64	229	359	Peak	VERTICAL
2	5822.24	118.19			109.85	7.86	32.23	31.75	229	359	Peak	VERTICAL
3	5828.64	107.93			99.59	7.86	32.23	31.75	229	359	Average	VERTICAL
4	6076.96	64.49	68.20	-3.71	55.52	8.12	32.73	31.88	229	359	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2
Test Date	Oct. 08, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 2TX)		

Channel 38

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5148.40	66.71	74.00	-7.29	59.81	6.21	33.74	33.05	125	336 Peak	VERTICAL
2	5150.00	52.89	54.00	-1.11	45.99	6.21	33.74	33.05	125	336 Average	VERTICAL
3	5202.80	100.00			92.96	6.27	33.82	33.05	125	336 Average	VERTICAL
4	5203.20	109.49			102.45	6.27	33.82	33.05	125	336 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5143.20	48.35	54.00	-5.65	41.49	6.17	33.74	33.05	134	339 Average	VERTICAL
2	5145.60	60.59	74.00	-13.41	53.69	6.21	33.74	33.05	134	339 Peak	VERTICAL
3	5233.20	101.65			94.53	6.30	33.87	33.05	134	339 Average	VERTICAL
4	5233.20	111.82			104.70	6.30	33.87	33.05	134	339 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 2TX)		

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5604.64	64.10	68.20	-4.10	56.02	7.87	31.86	31.65	215	352	Peak	VERTICAL
2	5759.52	111.46			103.21	7.83	32.13	31.71	215	352	Peak	VERTICAL
3	5762.08	100.77			92.52	7.83	32.13	31.71	215	352	Average	VERTICAL
4	5929.76	64.61	68.20	-3.59	56.05	7.96	32.39	31.79	215	352	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5637.92	66.00	68.20	-2.20	57.90	7.86	31.91	31.67	233	352	Peak	VERTICAL
2	5799.20	114.74			106.47	7.82	32.18	31.73	233	352	Peak	VERTICAL
3	5800.48	104.07			95.80	7.82	32.18	31.73	233	352	Average	VERTICAL
4	5937.44	64.84	68.20	-3.36	56.29	7.96	32.39	31.80	233	352	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2
Test Date	Oct. 08, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 2TX)		

Channel 42

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5143.00	64.30	74.00	-9.70	57.44	6.17	33.74	33.05	132	3	Peak	VERTICAL
2	5150.00	52.98	54.00	-1.02	46.08	6.21	33.74	33.05	132	3	Average	VERTICAL
3	5221.00	96.26			89.16	6.30	33.85	33.05	132	3	Average	VERTICAL
4	5228.00	105.28			98.16	6.30	33.87	33.05	132	3	Peak	VERTICAL
5	5352.00	49.83	54.00	-4.17	42.36	6.47	34.06	33.06	132	3	Average	VERTICAL
6	5366.00	61.69	74.00	-12.31	54.19	6.47	34.09	33.06	132	3	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5599.52	64.21	68.20	-3.99	56.13	7.87	31.86	31.65	237	352	Peak	VERTICAL
2	5759.52	108.92			100.67	7.83	32.13	31.71	237	352	Peak	VERTICAL
3	5787.68	97.51			89.27	7.82	32.15	31.73	237	352	Average	VERTICAL
4	6021.92	62.74	68.20	-5.46	53.97	8.05	32.56	31.84	237	352	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5775 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3
Test Date	Oct. 08, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 3TX)		

Channel 36

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5150.00	51.46	54.00	-2.54	44.56	6.21	33.74	33.05	137	349 Average	VERTICAL
2	5150.00	67.71	74.00	-6.29	60.81	6.21	33.74	33.05	137	349 Peak	VERTICAL
3	5173.60	104.95			97.97	6.24	33.79	33.05	137	349 Average	VERTICAL
4	5173.60	114.97			107.99	6.24	33.79	33.05	137	349 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5124.00	61.04	74.00	-12.96	54.21	6.17	33.71	33.05	128	359 Peak	VERTICAL
2	5124.40	48.46	54.00	-5.54	41.63	6.17	33.71	33.05	128	359 Average	VERTICAL
3	5194.80	105.72			98.68	6.27	33.82	33.05	128	359 Average	VERTICAL
4	5195.20	116.03			108.99	6.27	33.82	33.05	128	359 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5109.80	59.11	74.00	-14.89	52.33	6.14	33.69	33.05	120	343 Peak	VERTICAL
2	5149.40	47.48	54.00	-6.52	40.58	6.21	33.74	33.05	120	343 Average	VERTICAL
3	5232.80	106.82			99.70	6.30	33.87	33.05	120	343 Average	VERTICAL
4	5232.80	115.89			108.77	6.30	33.87	33.05	120	343 Peak	VERTICAL
5	5357.60	60.51	74.00	-13.49	53.04	6.47	34.06	33.06	120	343 Peak	VERTICAL
6	5371.40	48.59	54.00	-5.41	41.09	6.47	34.09	33.06	120	343 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 3TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5512.48	65.99	68.20	-2.21	58.12	7.75	31.73	31.61	225	353	Peak	VERTICAL
2	5746.72	110.28			102.06	7.83	32.10	31.71	225	353	Average	VERTICAL
3	5748.00	120.14			111.92	7.83	32.10	31.71	225	353	Peak	VERTICAL
4	5991.20	65.82	68.20	-2.38	57.15	8.01	32.47	31.81	225	353	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5536.16	66.97	68.20	-1.23	59.06	7.78	31.75	31.62	223	352	Peak	VERTICAL
2	5786.40	113.07			104.83	7.82	32.15	31.73	223	352	Average	VERTICAL
3 @	5786.40	123.17			114.93	7.82	32.15	31.73	223	352	Peak	VERTICAL
4	6018.08	64.88	68.20	-3.32	56.11	8.05	32.56	31.84	223	352	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5575.20	65.39	68.20	-2.81	57.34	7.85	31.83	31.63	222	352	Peak	VERTICAL
2	5827.36	113.63			105.29	7.86	32.23	31.75	222	352	Average	VERTICAL
3 @	5827.36	123.33			114.99	7.86	32.23	31.75	222	352	Peak	VERTICAL
4	5986.08	63.25	68.20	-4.95	54.58	8.01	32.47	31.81	222	352	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3
Test Date	Oct. 08, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 3TX)		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5148.40	65.84	74.00	-8.16	58.94	6.21	33.74	33.05	132	351 Peak	VERTICAL
2	5149.20	51.73	54.00	-2.27	44.83	6.21	33.74	33.05	132	351 Average	VERTICAL
3	5174.00	105.59			98.61	6.24	33.79	33.05	132	351 Average	VERTICAL
4	5184.40	116.57			109.59	6.24	33.79	33.05	132	351 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5118.80	61.93	74.00	-12.07	55.12	6.17	33.69	33.05	123	349 Peak	VERTICAL
2	5124.00	49.22	54.00	-4.78	42.39	6.17	33.71	33.05	123	349 Average	VERTICAL
3	5199.20	105.68			98.64	6.27	33.82	33.05	123	349 Average	VERTICAL
4	5199.20	116.85			109.81	6.27	33.82	33.05	123	349 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5126.00	59.55	74.00	-14.45	52.72	6.17	33.71	33.05	122	331 Peak	VERTICAL
2	5139.80	47.20	54.00	-6.80	40.34	6.17	33.74	33.05	122	331 Average	VERTICAL
3	5242.40	107.26			100.11	6.30	33.90	33.05	122	331 Average	VERTICAL
4	5242.40	117.57			110.42	6.30	33.90	33.05	122	331 Peak	VERTICAL
5	5358.20	60.99	74.00	-13.01	53.52	6.47	34.06	33.06	122	331 Peak	VERTICAL
6	5380.40	48.53	54.00	-5.47	40.98	6.50	34.11	33.06	122	331 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 3TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5509.92	66.43	68.20	-1.77	58.61	7.73	31.70	31.61	219	349	Peak	VERTICAL
2	5749.28	120.12			111.90	7.83	32.10	31.71	219	349	Peak	VERTICAL
3	5750.56	109.54			101.32	7.83	32.10	31.71	219	349	Average	VERTICAL
4	5989.92	64.28	68.20	-3.92	55.61	8.01	32.47	31.81	219	349	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5539.36	66.83	68.20	-1.37	58.92	7.78	31.75	31.62	224	350	Peak	VERTICAL
2 @	5786.40	122.80			114.56	7.82	32.15	31.73	224	350	Peak	VERTICAL
3	5790.24	112.55			104.28	7.82	32.18	31.73	224	350	Average	VERTICAL
4	6034.72	66.15	68.20	-2.05	57.31	8.08	32.61	31.85	224	350	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5584.16	64.15	68.20	-4.05	56.11	7.85	31.83	31.64	218	339	Peak	VERTICAL
2	5828.64	111.70			103.36	7.86	32.23	31.75	218	339	Average	VERTICAL
3	5828.64	121.36			113.02	7.86	32.23	31.75	218	339	Peak	VERTICAL
4	6076.96	65.68	68.20	-2.52	56.71	8.12	32.73	31.88	218	339	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3
Test Date	Oct. 08, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 3TX)		

Channel 38

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5147.60	52.37	54.00	-1.63	45.47	6.21	33.74	33.05	124	360	Average	VERTICAL
2	5148.00	65.51	74.00	-8.49	58.61	6.21	33.74	33.05	124	360	Peak	VERTICAL
3	5197.60	102.56			95.52	6.27	33.82	33.05	124	360	Average	VERTICAL
4	5202.40	112.92			105.88	6.27	33.82	33.05	124	360	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5058.00	59.90	74.00	-14.10	53.26	6.08	33.61	33.05	197	331	Peak	VERTICAL
2	5077.00	49.35	54.00	-4.65	42.66	6.11	33.63	33.05	197	331	Average	VERTICAL
3	5232.00	114.79			107.67	6.30	33.87	33.05	197	331	Peak	VERTICAL
4	5243.00	104.90			97.75	6.30	33.90	33.05	197	331	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 3TX)		

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5602.08	66.27	68.20	-1.93	58.19	7.87	31.86	31.65	227	354	Peak	VERTICAL
2	5763.36	104.56			96.31	7.83	32.13	31.71	227	354	Average	VERTICAL
3	5763.36	115.46			107.21	7.83	32.13	31.71	227	354	Peak	VERTICAL
4	5978.40	63.79	68.20	-4.41	55.12	8.01	32.47	31.81	227	354	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5627.68	66.67	68.20	-1.53	58.56	7.86	31.91	31.66	215	356	Peak	VERTICAL
2	5787.68	116.77			108.53	7.82	32.15	31.73	215	356	Peak	VERTICAL
3	5803.04	106.67			98.41	7.82	32.18	31.74	215	356	Average	VERTICAL
4	5943.84	65.11	68.20	-3.09	56.51	7.98	32.42	31.80	215	356	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2 + Chain 3
Test Date	Oct. 08, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 3TX)		

Channel 42

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5114.00	64.75	74.00	-9.25	57.97	6.14	33.69	33.05	243	360 Peak	VERTICAL
2	5148.00	52.81	54.00	-1.19	45.91	6.21	33.74	33.05	243	360 Average	VERTICAL
3	5233.00	109.14			102.02	6.30	33.87	33.05	243	360 Peak	VERTICAL
4	5238.00	98.98			91.86	6.30	33.87	33.05	243	360 Average	VERTICAL
5	5354.00	61.98	74.00	-12.02	54.51	6.47	34.06	33.06	243	360 Peak	VERTICAL
6	5358.00	50.44	54.00	-3.56	42.97	6.47	34.06	33.06	243	360 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5594.40	63.26	68.20	-4.94	55.17	7.87	31.86	31.64	217	350 Peak	VERTICAL
2	5790.24	98.47			90.20	7.82	32.18	31.73	217	350 Average	VERTICAL
3	5790.24	109.43			101.16	7.82	32.18	31.73	217	350 Peak	VERTICAL
4	5941.28	63.14	68.20	-5.06	54.54	7.98	32.42	31.80	217	350 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5775 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 07, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5093.20	50.16	54.00	-3.84	43.41	6.14	33.66	33.05	126	357 Average	VERTICAL
2	5150.00	65.87	74.00	-8.13	58.97	6.21	33.74	33.05	126	357 Peak	VERTICAL
3	5173.60	105.69			98.71	6.24	33.79	33.05	126	357 Average	VERTICAL
4	5174.40	115.85			108.87	6.24	33.79	33.05	126	357 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5122.00	48.94	54.00	-5.06	42.13	6.17	33.69	33.05	123	340 Average	VERTICAL
2	5122.80	61.11	74.00	-12.89	54.28	6.17	33.71	33.05	123	340 Peak	VERTICAL
3	5202.40	106.28			99.24	6.27	33.82	33.05	123	340 Average	VERTICAL
4	5202.40	117.08			110.04	6.27	33.82	33.05	123	340 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5134.40	59.67	74.00	-14.33	52.84	6.17	33.71	33.05	129	330 Peak	VERTICAL
2	5150.00	47.80	54.00	-6.20	40.90	6.21	33.74	33.05	129	330 Average	VERTICAL
3	5234.00	108.32			101.20	6.30	33.87	33.05	129	330 Average	VERTICAL
4	5234.00	117.54			110.42	6.30	33.87	33.05	129	330 Peak	VERTICAL
5	5360.00	48.92	54.00	-5.08	41.45	6.47	34.06	33.06	129	330 Average	VERTICAL
6	5382.20	61.06	74.00	-12.94	53.51	6.50	34.11	33.06	129	330 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5498.40	66.23	68.20	-1.97	58.40	7.73	31.70	31.60	215	352	Peak	VERTICAL
2	5748.00	110.19			101.97	7.83	32.10	31.71	215	352	Average	VERTICAL
3	5748.00	120.39			112.17	7.83	32.10	31.71	215	352	Peak	VERTICAL
4	5991.20	63.32	68.20	-4.88	54.65	8.01	32.47	31.81	215	352	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5536.80	66.52	68.20	-1.68	58.61	7.78	31.75	31.62	216	351	Peak	VERTICAL
2	5786.40	114.57			106.33	7.82	32.15	31.73	216	351	Average	VERTICAL
3 @	5786.40	124.20			115.96	7.82	32.15	31.73	216	351	Peak	VERTICAL
4	6025.76	65.20	68.20	-3.00	56.43	8.05	32.56	31.84	216	351	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5588.00	66.03	68.20	-2.17	57.99	7.85	31.83	31.64	221	351	Peak	VERTICAL
2	5827.36	114.59			106.25	7.86	32.23	31.75	221	351	Average	VERTICAL
3 @	5827.36	124.51			116.17	7.86	32.23	31.75	221	351	Peak	VERTICAL
4	6060.32	64.71	68.20	-3.49	55.81	8.10	32.67	31.87	221	351	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 07, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5147.20	50.62	54.00	-3.38	43.72	6.21	33.74	33.05	126	360	Average	VERTICAL
2	5147.20	63.71	74.00	-10.29	56.81	6.21	33.74	33.05	126	360	Peak	VERTICAL
3	5172.40	117.04			110.08	6.24	33.77	33.05	126	360	Peak	VERTICAL
4	5187.20	106.22			99.24	6.24	33.79	33.05	126	360	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5118.00	60.73	74.00	-13.27	53.95	6.14	33.69	33.05	130	1	Peak	VERTICAL
2	5143.20	48.31	54.00	-5.69	41.45	6.17	33.74	33.05	130	1	Average	VERTICAL
3	5197.60	118.46			111.42	6.27	33.82	33.05	130	1	Peak	VERTICAL
4	5202.80	107.51			100.47	6.27	33.82	33.05	130	1	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5097.20	58.90	74.00	-15.10	52.15	6.14	33.66	33.05	201	318	Peak	HORIZONTAL
2	5118.20	46.47	54.00	-7.53	39.69	6.14	33.69	33.05	201	318	Average	HORIZONTAL
3	5243.60	93.50			86.35	6.30	33.90	33.05	201	318	Average	HORIZONTAL
4	5243.60	103.70			96.55	6.30	33.90	33.05	201	318	Peak	HORIZONTAL
5	5373.20	48.45	54.00	-5.55	40.95	6.47	34.09	33.06	201	318	Average	HORIZONTAL
6	5378.00	60.05	74.00	-13.95	52.50	6.50	34.11	33.06	201	318	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5503.52	65.20	68.20	-3.00	57.37	7.73	31.70	31.60	211	350	Peak	VERTICAL
2	5740.32	108.69			100.47	7.83	32.10	31.71	211	350	Average	VERTICAL
3	5745.44	120.82			112.60	7.83	32.10	31.71	211	350	Peak	VERTICAL
4	5993.76	64.13	68.20	-4.07	55.41	8.03	32.50	31.81	211	350	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5535.52	65.44	68.20	-2.76	57.53	7.78	31.75	31.62	215	350	Peak	VERTICAL
2	5790.24	112.79			104.52	7.82	32.18	31.73	215	350	Average	VERTICAL
3 @	5790.24	122.46			114.19	7.82	32.18	31.73	215	350	Peak	VERTICAL
4	6033.44	64.66	68.20	-3.54	55.81	8.08	32.61	31.84	215	350	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5576.48	66.96	68.20	-1.24	58.91	7.85	31.83	31.63	207	350	Peak	VERTICAL
2	5819.68	112.47			104.16	7.84	32.21	31.74	207	350	Average	VERTICAL
3	5827.36	122.07			113.73	7.86	32.23	31.75	207	350	Peak	VERTICAL
4	6076.96	64.47	68.20	-3.73	55.50	8.12	32.73	31.88	207	350	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 07, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Channel 38

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	5145.60	68.08	74.00	-5.92	61.18	6.21	33.74	33.05	126	339 Peak	VERTICAL
2	5150.00	52.90	54.00	-1.10	46.00	6.21	33.74	33.05	126	339 Average	VERTICAL
3	5200.80	114.11			107.07	6.27	33.82	33.05	126	339 Peak	VERTICAL
4	5205.60	104.71			97.67	6.27	33.82	33.05	126	339 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	5142.00	49.58	54.00	-4.42	42.72	6.17	33.74	33.05	129	359 Average	VERTICAL
2	5149.20	60.77	74.00	-13.23	53.87	6.21	33.74	33.05	129	359 Peak	VERTICAL
3	5217.20	105.03			97.96	6.27	33.85	33.05	129	359 Average	VERTICAL
4	5232.40	114.73			107.61	6.30	33.87	33.05	129	359 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5584.16	65.26	68.20	-2.94	57.22	7.85	31.83	31.64	206	350	Peak	VERTICAL
2	5759.52	103.32			95.07	7.83	32.13	31.71	206	350	Average	VERTICAL
3	5765.92	113.09			104.85	7.83	32.13	31.72	206	350	Peak	VERTICAL
4	5925.92	63.80	68.20	-4.40	55.24	7.96	32.39	31.79	206	350	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5626.40	66.48	68.20	-1.72	58.37	7.86	31.91	31.66	218	354	Peak	VERTICAL
2	5787.68	117.24			109.00	7.82	32.15	31.73	218	354	Peak	VERTICAL
3	5803.04	107.17			98.91	7.82	32.18	31.74	218	354	Average	VERTICAL
4	5947.68	65.29	68.20	-2.91	56.69	7.98	32.42	31.80	218	354	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 08, 2015		
Test Mode	Mode 3 (Set 6 Panel antenna / 2.66dBi / 4TX)		

Channel 42

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5112.00	52.64	54.00	-1.36	45.86	6.14	33.69	33.05	136	331	Average	VERTICAL
2	5119.00	64.49	74.00	-9.51	57.68	6.17	33.69	33.05	136	331	Peak	VERTICAL
3	5238.00	99.36			92.24	6.30	33.87	33.05	136	331	Average	VERTICAL
4	5248.00	108.71			101.53	6.34	33.90	33.06	136	331	Peak	VERTICAL
5	5353.00	50.42	54.00	-3.58	42.95	6.47	34.06	33.06	136	331	Average	VERTICAL
6	5411.00	61.37	74.00	-12.63	53.76	6.53	34.14	33.06	136	331	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5627.68	63.53	68.20	-4.67	55.42	7.86	31.91	31.66	230	353	Peak	VERTICAL
2	5767.20	108.56			100.32	7.83	32.13	31.72	230	353	Peak	VERTICAL
3	5787.68	98.87			90.63	7.82	32.15	31.73	230	353	Average	VERTICAL
4	5968.16	62.28	68.20	-5.92	53.64	7.99	32.45	31.80	230	353	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5775 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1
Test Date	Oct. 10, 2015		
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 1TX)		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5149.40	60.48	74.00	-13.52	53.58	6.21	33.74	33.05	222	346 Peak	HORIZONTAL
2	5150.00	46.91	54.00	-7.09	40.01	6.21	33.74	33.05	222	346 Average	HORIZONTAL
3	5173.00	96.43			89.47	6.24	33.77	33.05	222	346 Average	HORIZONTAL
4	5177.80	107.85			100.87	6.24	33.79	33.05	222	346 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5147.20	58.83	74.00	-15.17	51.93	6.21	33.74	33.05	236	345 Peak	HORIZONTAL
2	5150.00	45.57	54.00	-8.43	38.67	6.21	33.74	33.05	236	345 Average	HORIZONTAL
3	5198.40	107.41			100.37	6.27	33.82	33.05	236	345 Peak	HORIZONTAL
4	5206.80	96.86			89.82	6.27	33.82	33.05	236	345 Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5106.20	58.21	74.00	-15.79	51.43	6.14	33.69	33.05	232	346 Peak	HORIZONTAL
2	5150.00	45.41	54.00	-8.59	38.51	6.21	33.74	33.05	232	346 Average	HORIZONTAL
3	5238.20	109.20			102.08	6.30	33.87	33.05	232	346 Peak	HORIZONTAL
4	5238.80	98.34			91.22	6.30	33.87	33.05	232	346 Average	HORIZONTAL
5	5350.00	46.87	54.00	-7.13	39.40	6.47	34.06	33.06	232	346 Average	HORIZONTAL
6	5373.80	59.70	74.00	-14.30	52.17	6.50	34.09	33.06	232	346 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 1TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5512.00	60.76	68.20	-7.44	52.89	7.75	31.73	31.61	174	357	Peak	HORIZONTAL
2	5743.00	107.26			99.04	7.83	32.10	31.71	174	357	Peak	HORIZONTAL
3	5750.00	97.28			89.06	7.83	32.10	31.71	174	357	Average	HORIZONTAL
4	5989.00	60.79	68.20	-7.41	52.12	8.01	32.47	31.81	174	357	Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5562.00	59.67	68.20	-8.53	51.67	7.82	31.81	31.63	175	357	Peak	HORIZONTAL
2	5783.00	108.36			100.12	7.82	32.15	31.73	175	357	Peak	HORIZONTAL
3	5790.00	98.53			90.26	7.82	32.18	31.73	175	357	Average	HORIZONTAL
4	5993.00	60.03	68.20	-8.17	51.31	8.03	32.50	31.81	175	357	Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5585.00	59.49	68.20	-8.71	51.45	7.85	31.83	31.64	164	330	Peak	VERTICAL
2	5823.00	108.32			99.98	7.86	32.23	31.75	164	330	Peak	VERTICAL
3	5828.00	98.41			90.07	7.86	32.23	31.75	164	330	Average	VERTICAL
4	5993.00	60.57	68.20	-7.63	51.85	8.03	32.50	31.81	164	330	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1
Test Date	Oct. 10, 2015		
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 1TX)		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5146.00	59.50	74.00	-14.50	52.60	6.21	33.74	33.05	224	346	Peak	HORIZONTAL
2	5150.00	46.75	54.00	-7.25	39.85	6.21	33.74	33.05	224	346	Average	HORIZONTAL
3	5173.60	106.54			99.56	6.24	33.79	33.05	224	346	Peak	HORIZONTAL
4	5187.00	95.90			88.92	6.24	33.79	33.05	224	346	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5129.20	57.45	74.00	-16.55	50.62	6.17	33.71	33.05	231	338	Peak	HORIZONTAL
2	5150.00	45.62	54.00	-8.38	38.72	6.21	33.74	33.05	231	338	Average	HORIZONTAL
3	5205.60	96.84			89.80	6.27	33.82	33.05	231	338	Average	HORIZONTAL
4	5206.40	107.64			100.60	6.27	33.82	33.05	231	338	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5119.40	58.13	74.00	-15.87	51.32	6.17	33.69	33.05	228	347	Peak	HORIZONTAL
2	5150.00	45.42	54.00	-8.58	38.52	6.21	33.74	33.05	228	347	Average	HORIZONTAL
3	5241.80	97.18			90.03	6.30	33.90	33.05	228	347	Average	HORIZONTAL
4	5243.00	107.64			100.49	6.30	33.90	33.05	228	347	Peak	HORIZONTAL
5	5350.00	46.93	54.00	-7.07	39.46	6.47	34.06	33.06	228	347	Average	HORIZONTAL
6	5351.20	60.00	74.00	-14.00	52.53	6.47	34.06	33.06	228	347	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 1TX)		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5509.00	60.39	68.20	-7.81	52.57	7.73	31.70	31.61	164	1	Peak	HORIZONTAL
2	5741.00	96.90			88.68	7.83	32.10	31.71	164	1	Average	HORIZONTAL
3	5748.00	106.80			98.58	7.83	32.10	31.71	164	1	Peak	HORIZONTAL
4	5935.00	60.34	68.20	-7.86	51.78	7.96	32.39	31.79	164	1	Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5624.00	59.51	68.20	-8.69	51.40	7.86	31.91	31.66	141	331	Peak	VERTICAL
2	5781.00	105.57			97.32	7.82	32.15	31.72	141	331	Peak	VERTICAL
3	5788.00	96.19			87.95	7.82	32.15	31.73	141	331	Average	VERTICAL
4	5933.00	61.00	68.20	-7.20	52.44	7.96	32.39	31.79	141	331	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5584.00	60.13	68.20	-8.07	52.09	7.85	31.83	31.64	148	337	Peak	VERTICAL
2	5828.00	96.80			88.46	7.86	32.23	31.75	148	337	Average	VERTICAL
3	5828.00	106.22			97.88	7.86	32.23	31.75	148	337	Peak	VERTICAL
4	5977.00	60.45	68.20	-7.75	51.78	8.01	32.47	31.81	148	337	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1
Test Date	Oct. 10, 2015		
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 1TX)		

Channel 38

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5149.20	64.64	74.00	-9.36	57.74	6.21	33.74	33.05	222	347	Peak	HORIZONTAL
2	5150.00	50.16	54.00	-3.84	43.26	6.21	33.74	33.05	222	347	Average	HORIZONTAL
3	5202.40	103.35			96.31	6.27	33.82	33.05	222	347	Peak	HORIZONTAL
4	5204.40	93.89			86.85	6.27	33.82	33.05	222	347	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5145.60	58.41	74.00	-15.59	51.51	6.21	33.74	33.05	231	340	Peak	HORIZONTAL
2	5150.00	46.10	54.00	-7.90	39.20	6.21	33.74	33.05	231	340	Average	HORIZONTAL
3	5237.60	94.88			87.76	6.30	33.87	33.05	231	340	Average	HORIZONTAL
4	5237.60	105.47			98.35	6.30	33.87	33.05	231	340	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 1TX)		

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5584.00	60.28	68.20	-7.92	52.24	7.85	31.83	31.64	183	1	Peak	HORIZONTAL
2	5747.00	103.88			95.66	7.83	32.10	31.71	183	1	Peak	HORIZONTAL
3	5763.00	93.00			84.75	7.83	32.13	31.71	183	1	Average	HORIZONTAL
4	5945.00	59.88	68.20	-8.32	51.28	7.98	32.42	31.80	183	1	Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5563.00	60.37	68.20	-7.83	52.37	7.82	31.81	31.63	179	339	Peak	VERTICAL
2	5803.00	103.29			95.03	7.82	32.18	31.74	179	339	Peak	VERTICAL
3	5810.00	92.45			84.14	7.84	32.21	31.74	179	339	Average	VERTICAL
4	5950.00	60.92	68.20	-7.28	52.32	7.98	32.42	31.80	179	339	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1
Test Date	Oct. 10, 2015		
Test Mode	Mode 4 (Set 7 Polarized Panel antenna / 3.89dBi / 1TX)		

Channel 42

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5149.00	52.62	54.00	-1.38	45.72	6.21	33.74	33.05	231	341	Average	HORIZONTAL
2	5150.00	64.23	74.00	-9.77	57.33	6.21	33.74	33.05	231	341	Peak	HORIZONTAL
3	5240.00	92.20			85.08	6.30	33.87	33.05	231	341	Average	HORIZONTAL
4	5242.00	101.97			94.82	6.30	33.90	33.05	231	341	Peak	HORIZONTAL
5	5350.00	49.16	54.00	-4.84	41.69	6.47	34.06	33.06	231	341	Average	HORIZONTAL
6	5358.00	60.20	74.00	-13.80	52.73	6.47	34.06	33.06	231	341	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5607.00	59.86	68.20	-8.34	51.78	7.87	31.86	31.65	181	357	Peak	HORIZONTAL
2	5791.00	99.79			91.52	7.82	32.18	31.73	181	357	Peak	HORIZONTAL
3	5804.00	88.90			80.64	7.82	32.18	31.74	181	357	Average	HORIZONTAL
4	5940.00	60.49	68.20	-7.71	51.94	7.96	32.39	31.80	181	357	Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5775 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level