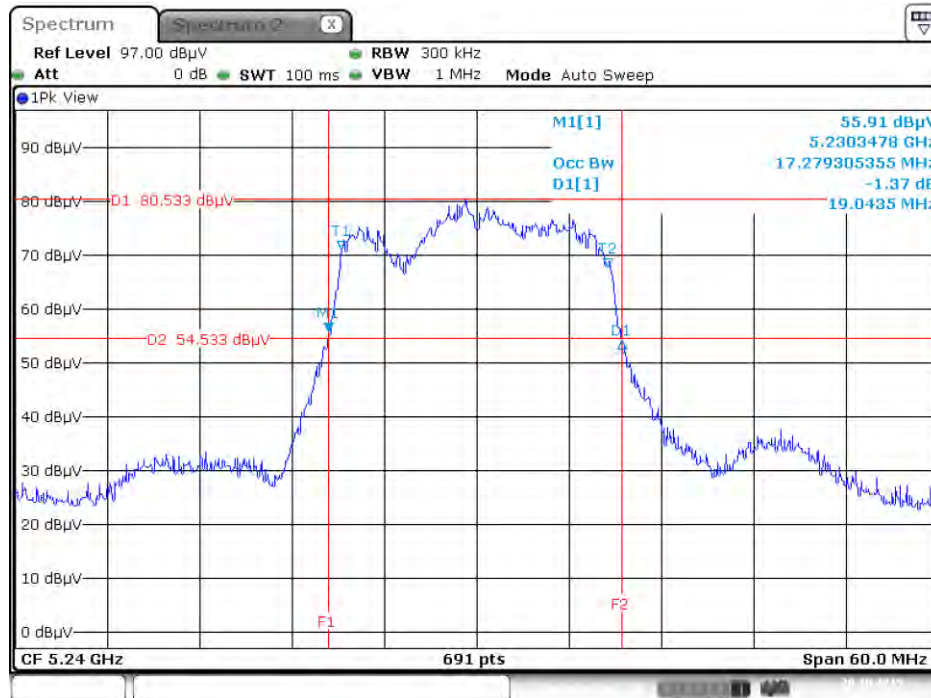
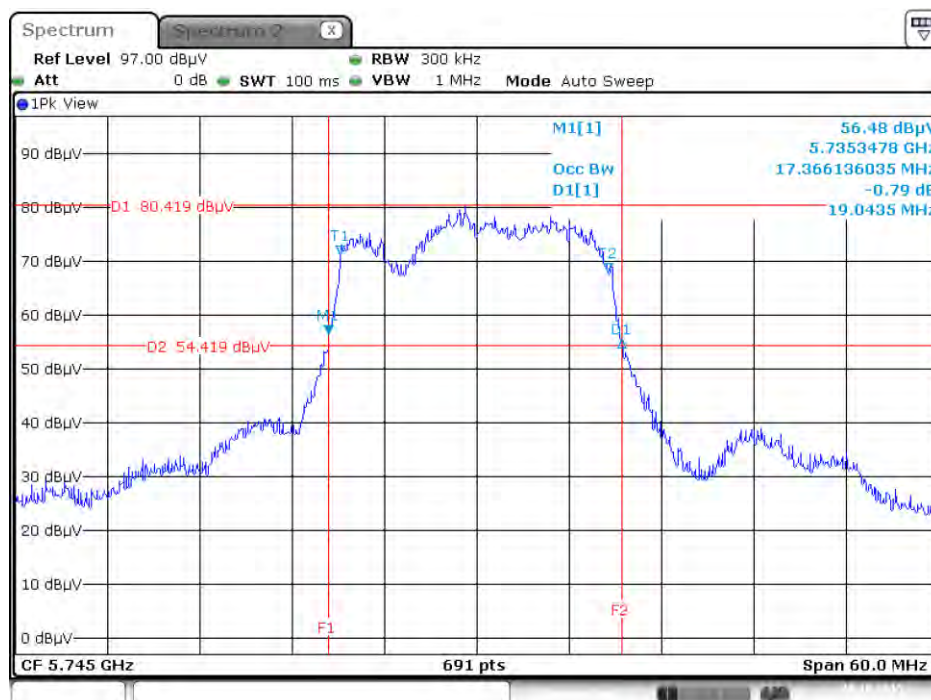


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5240 MHz



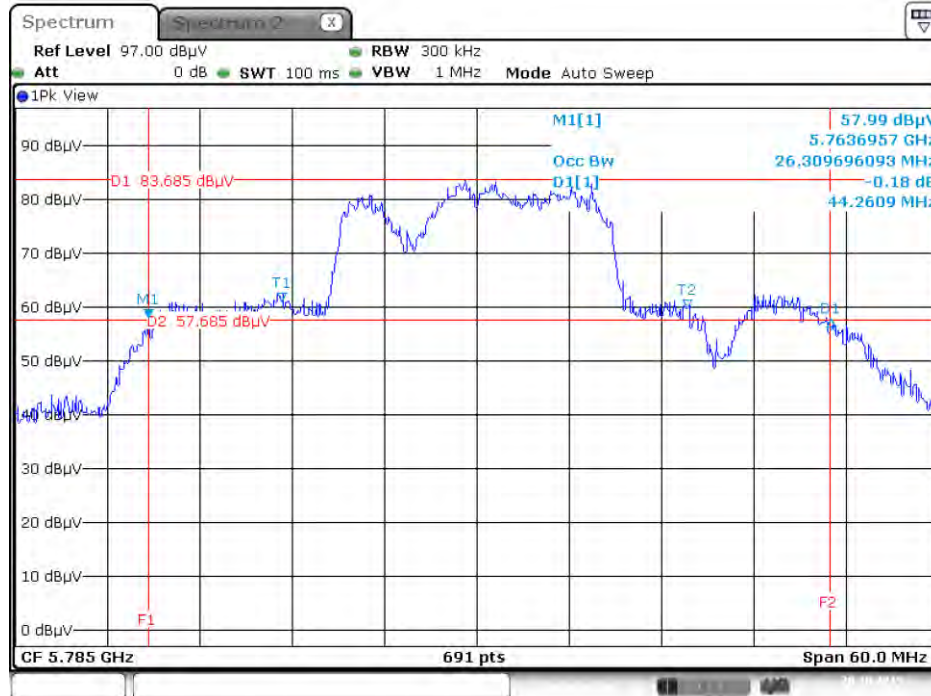
Date: 20.OCT.2015 23:30:25

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5745 MHz



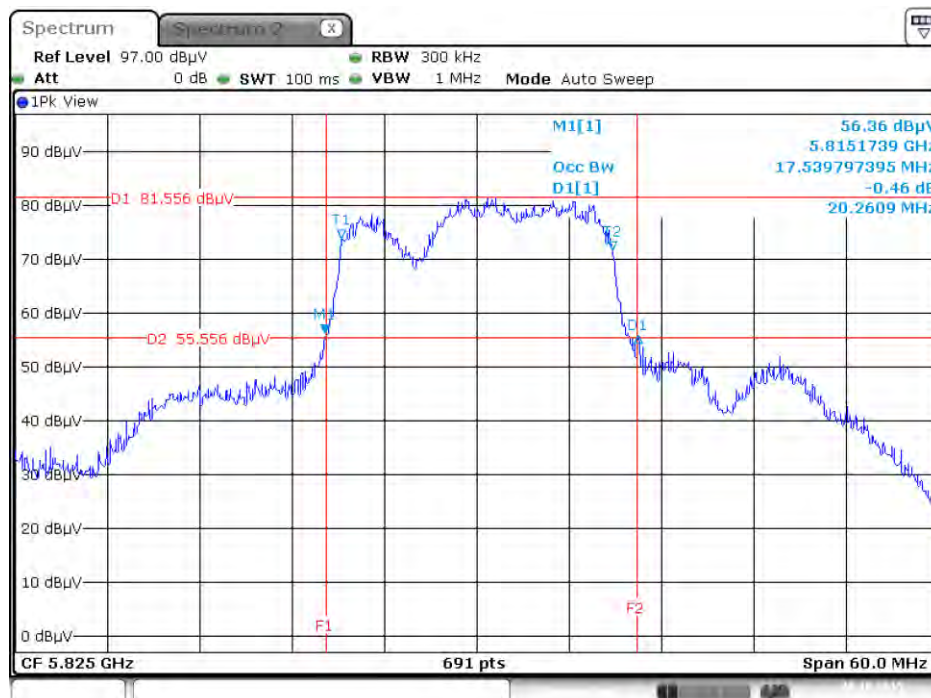
Date: 20.OCT.2015 23:34:54

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



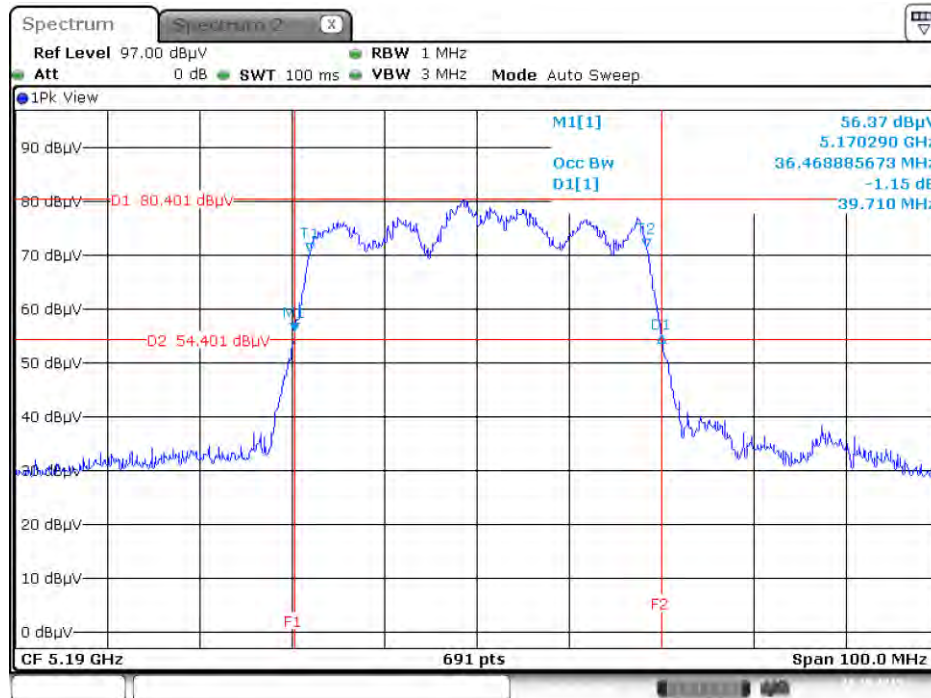
Date: 20.OCT.2015 23:35:27

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5825 MHz



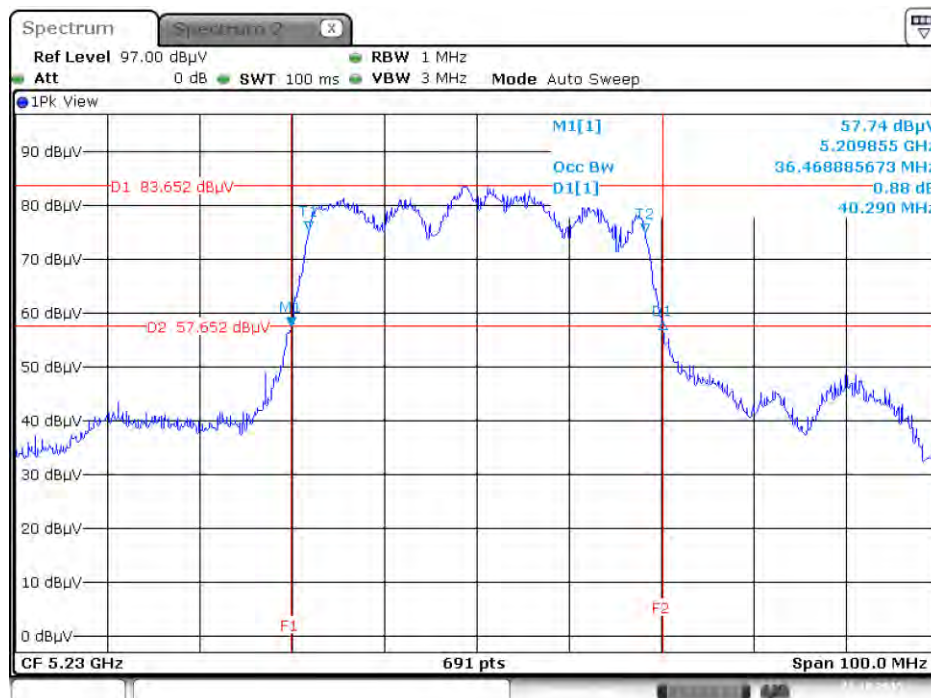
Date: 20.OCT.2015 23:36:07

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5190 MHz



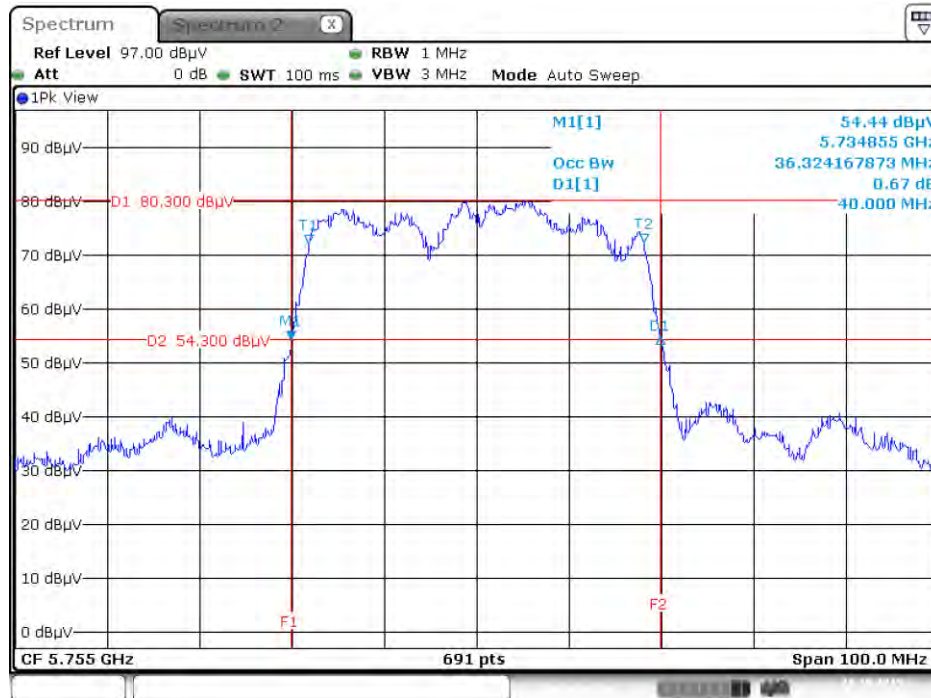
Date: 21.OCT.2015 00:17:41

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5230 MHz



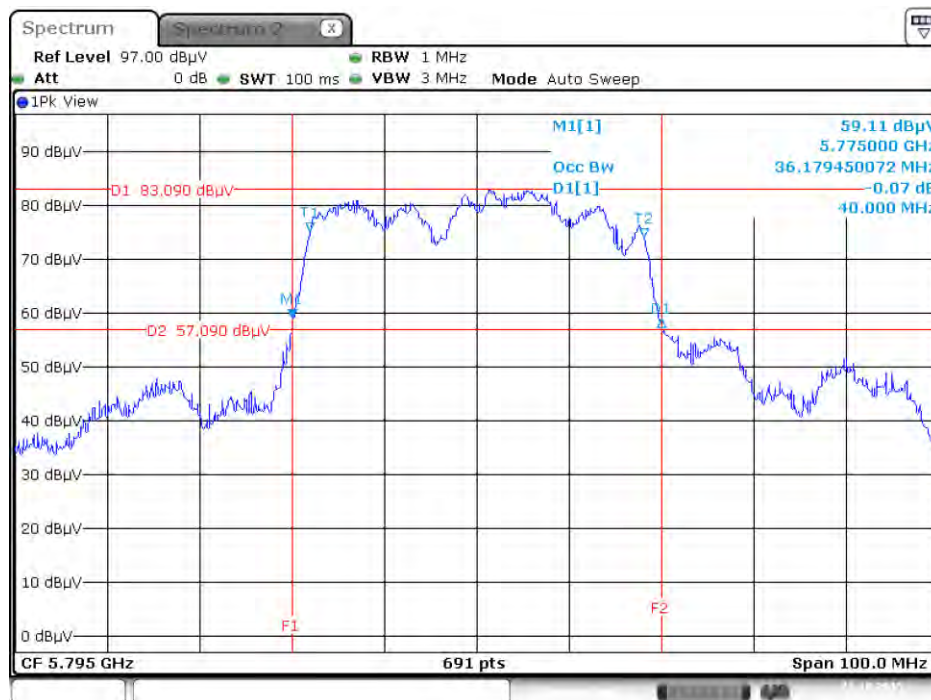
Date: 21.OCT.2015 00:18:13

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5755 MHz



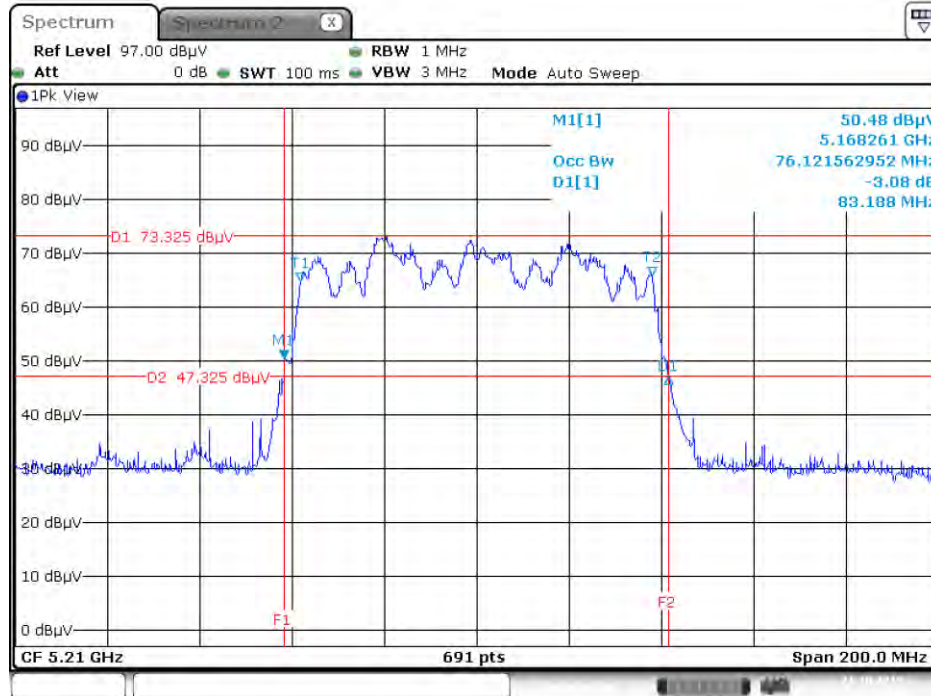
Date: 21.OCT.2015 00:21:53

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5795 MHz



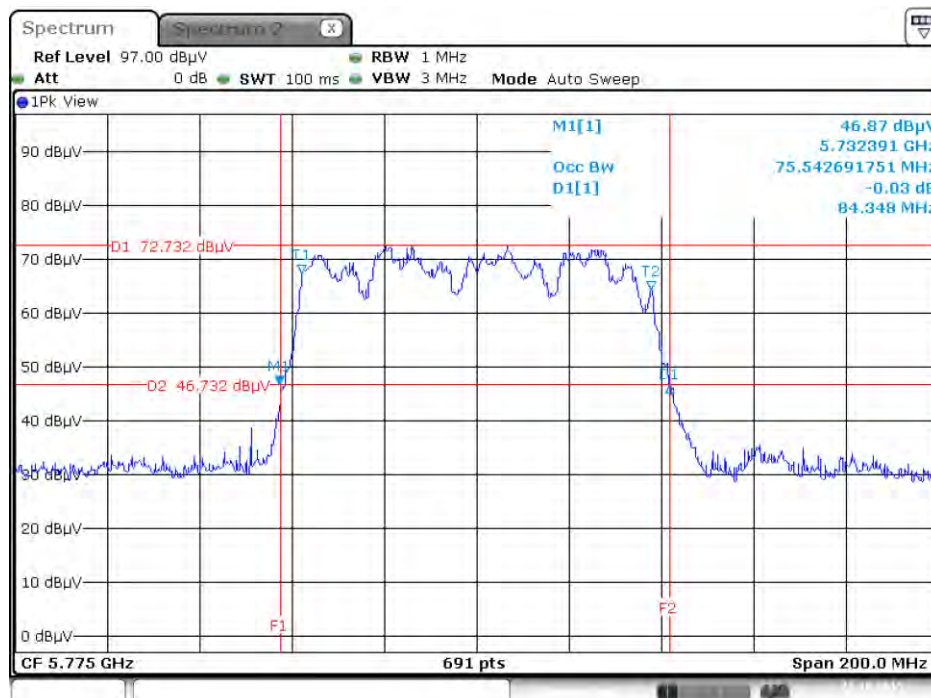
Date: 21.OCT.2015 00:22:31

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5210 MHz



Date: 21.OCT.2015 00:23:21

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz



Date: 21.OCT.2015 00:26:32

4.3. 6dB Spectrum Bandwidth Measurement

4.3.1. Limit

For digital modulation systems, the minimum 6dB bandwidth shall be at least 500 kHz.

4.3.2. Measuring Instruments and Setting

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

6dB Spectrum Bandwidth	
Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 6dB Bandwidth
RBW	100kHz
VBW	$\geq 3 \times \text{RBW}$
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.3.3. Test Procedures

For Radiated 6dB Bandwidth Measurement:

1. The transmitter was radiated to the spectrum analyzer in peak hold mode.
2. Test was performed in accordance with KDB789033 D02 v01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (C) Emission Bandwidth.
3. Multiple antenna system was performed in accordance with KDB662911 D01 v02r01 Emissions Testing of Transmitters with Multiple Outputs in the Same Band.
4. Measured the spectrum width with power higher than 6dB below carrier.

4.3.4. Test Setup Layout

For Radiated 6dB Bandwidth Measurement:

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

4.3.5. Test Deviation

There is no deviation with the original standard.

4.3.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.3.7. Test Result of 6dB Spectrum Bandwidth

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Mode	Frequency	6dB Bandwidth (MHz)	Min. Limit (kHz)	Test Result
802.11a	5745 MHz	15.59	500	Complies
	5785 MHz	16.29	500	Complies
	5825 MHz	9.10	500	Complies
802.11ac MCS0/Nss1 VHT20	5745 MHz	16.87	500	Complies
	5785 MHz	16.58	500	Complies
	5825 MHz	16.52	500	Complies
802.11ac MCS0/Nss1 VHT40	5755 MHz	29.45	500	Complies
	5795 MHz	26.55	500	Complies
802.11ac MCS0/Nss1 VHT80	5775 MHz	62.32	500	Complies

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Mode	Frequency	6dB Bandwidth (MHz)	Min. Limit (kHz)	Test Result
802.11a	5745 MHz	13.16	500	Complies
	5785 MHz	16.35	500	Complies
	5825 MHz	3.83	500	Complies
802.11ac MCS0/Nss1 VHT20	5745 MHz	6.26	500	Complies
	5785 MHz	16.93	500	Complies
	5825 MHz	3.83	500	Complies
802.11ac MCS0/Nss1 VHT40	5755 MHz	23.77	500	Complies
	5795 MHz	24.12	500	Complies
802.11ac MCS0/Nss1 VHT80	5775 MHz	67.54	500	Complies

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Mode	Frequency	6dB Bandwidth (MHz)	Min. Limit (kHz)	Test Result
802.11a	5745 MHz	15.83	500	Complies
	5785 MHz	15.71	500	Complies
	5825 MHz	9.10	500	Complies
802.11ac MCS0/Nss1 VHT20	5745 MHz	16.87	500	Complies
	5785 MHz	16.58	500	Complies
	5825 MHz	16.52	500	Complies
802.11ac MCS0/Nss1 VHT40	5755 MHz	26.32	500	Complies
	5795 MHz	29.10	500	Complies
802.11ac MCS0/Nss1 VHT80	5775 MHz	64.93	500	Complies

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Mode	Frequency	6dB Bandwidth (MHz)	Min. Limit (kHz)	Test Result
802.11a	5745 MHz	10.03	500	Complies
	5785 MHz	8.64	500	Complies
	5825 MHz	14.96	500	Complies
802.11ac MCS0/Nss1 VHT20	5745 MHz	16.00	500	Complies
	5785 MHz	13.80	500	Complies
	5825 MHz	8.93	500	Complies
802.11ac MCS0/Nss1 VHT40	5755 MHz	28.06	500	Complies
	5795 MHz	29.45	500	Complies
802.11ac MCS0/Nss1 VHT80	5775 MHz	68.70	500	Complies

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang		
Test Mode	Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi		

Mode	Frequency	6dB Bandwidth (MHz)	Min. Limit (kHz)	Test Result
802.11a	5745 MHz	15.83	500	Complies
	5785 MHz	16.00	500	Complies
	5825 MHz	9.10	500	Complies
802.11ac MCS0/Nss1 VHT20	5745 MHz	17.28	500	Complies
	5785 MHz	16.52	500	Complies
	5825 MHz	17.16	500	Complies
802.11ac MCS0/Nss1 VHT40	5755 MHz	26.32	500	Complies
	5795 MHz	24.46	500	Complies
802.11ac MCS0/Nss1 VHT80	5775 MHz	62.61	500	Complies

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang		
Test Mode	Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi		

Mode	Frequency	6dB Bandwidth (MHz)	Min. Limit (kHz)	Test Result
802.11a	5745 MHz	4.99	500	Complies
	5785 MHz	15.71	500	Complies
	5825 MHz	15.42	500	Complies
802.11ac MCS0/Nss1 VHT20	5745 MHz	5.28	500	Complies
	5785 MHz	16.58	500	Complies
	5825 MHz	16.75	500	Complies
802.11ac MCS0/Nss1 VHT40	5755 MHz	22.49	500	Complies
	5795 MHz	26.55	500	Complies
802.11ac MCS0/Nss1 VHT80	5775 MHz	62.90	500	Complies

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang		
Test Mode	Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi		

Mode	Frequency	6dB Bandwidth (MHz)	Min. Limit (kHz)	Test Result
802.11a	5745 MHz	15.94	500	Complies
	5785 MHz	15.71	500	Complies
	5825 MHz	15.42	500	Complies
802.11ac MCS0/Nss1 VHT20	5745 MHz	16.75	500	Complies
	5785 MHz	5.68	500	Complies
	5825 MHz	16.93	500	Complies
802.11ac MCS0/Nss1 VHT40	5755 MHz	28.75	500	Complies
	5795 MHz	25.16	500	Complies
802.11ac MCS0/Nss1 VHT80	5775 MHz	68.70	500	Complies

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang		
Test Mode	Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi		

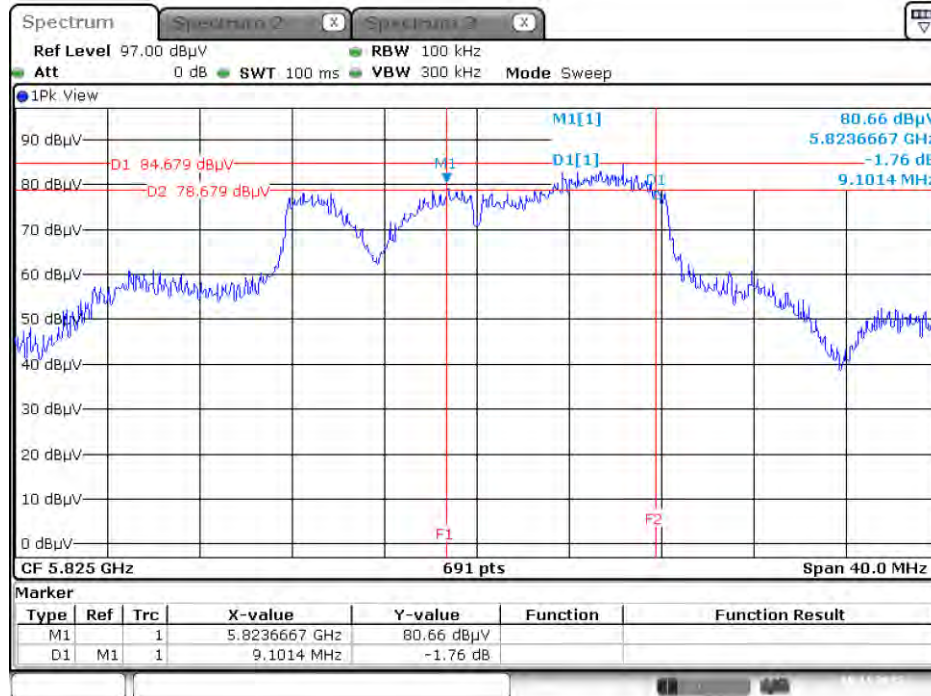
Mode	Frequency	6dB Bandwidth (MHz)	Min. Limit (kHz)	Test Result
802.11a	5745 MHz	16.00	500	Complies
	5785 MHz	15.30	500	Complies
	5825 MHz	16.29	500	Complies
802.11ac MCS0/Nss1 VHT20	5745 MHz	15.88	500	Complies
	5785 MHz	16.23	500	Complies
	5825 MHz	9.39	500	Complies
802.11ac MCS0/Nss1 VHT40	5755 MHz	31.65	500	Complies
	5795 MHz	35.71	500	Complies
802.11ac MCS0/Nss1 VHT80	5775 MHz	71.01	500	Complies

Note: All the test values were listed in the report.

For plots, only the channel with worse result was shown.

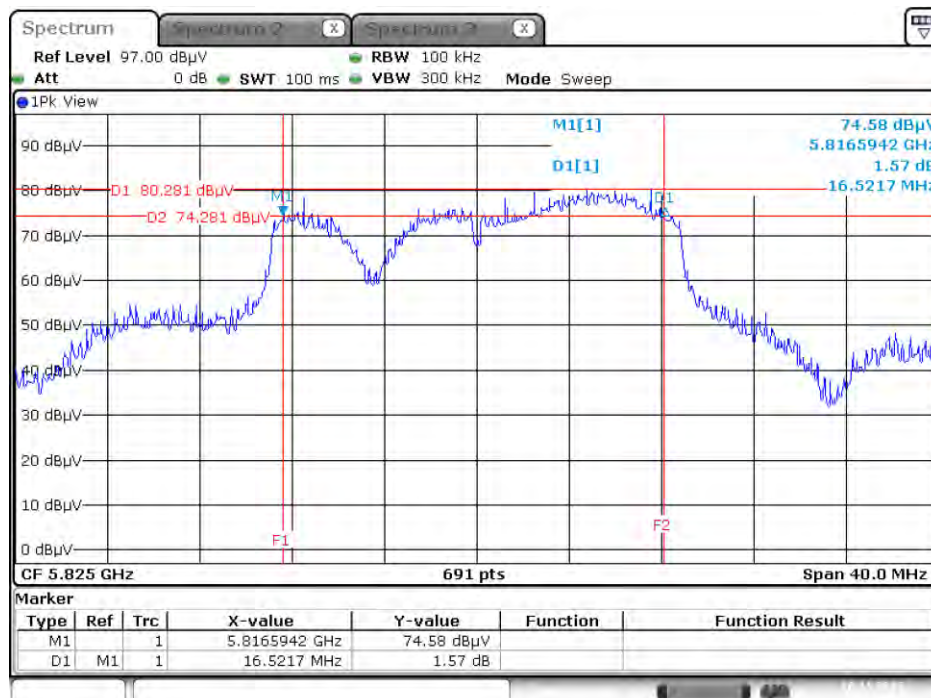
Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi

6 dB Bandwidth Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5825 MHz



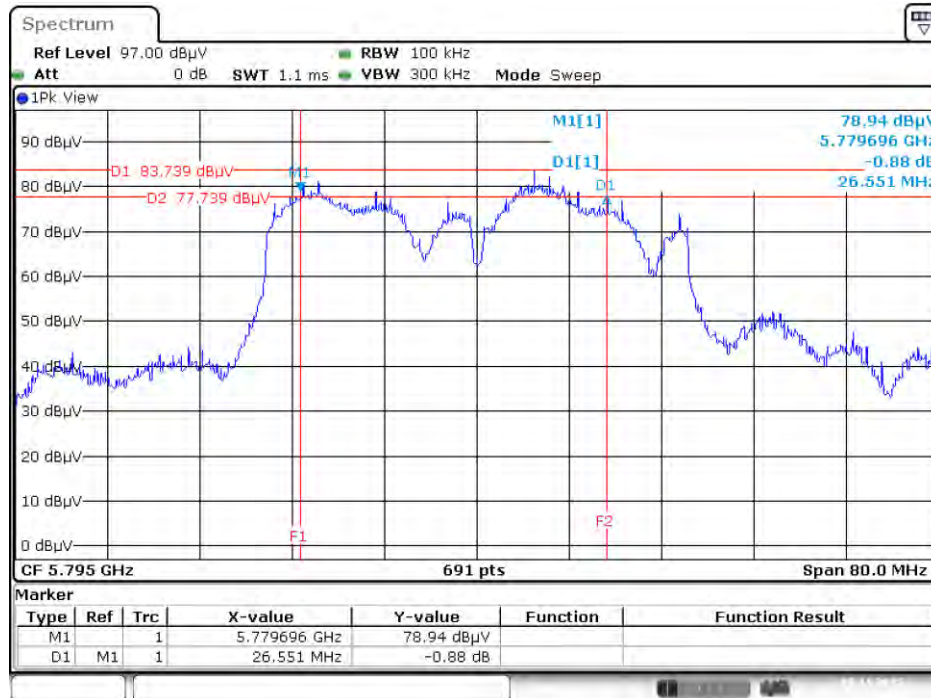
Date: 10 NOV. 2015 20:42:21

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5825 MHz



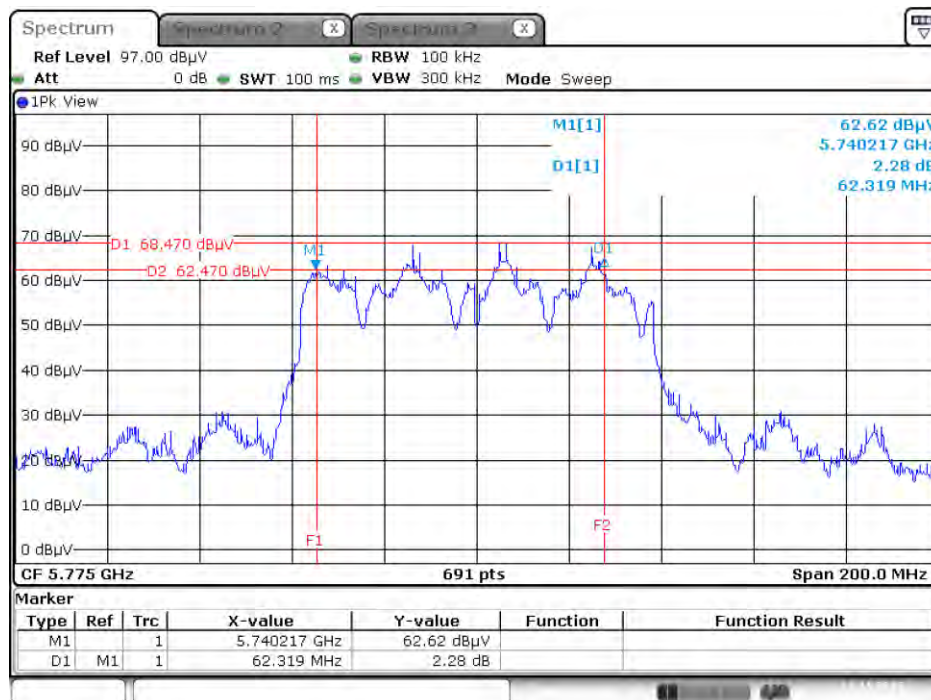
Date: 10 NOV. 2015 20:42:58

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5795 MHz



Date: 5.NOV.2015 14:38:13

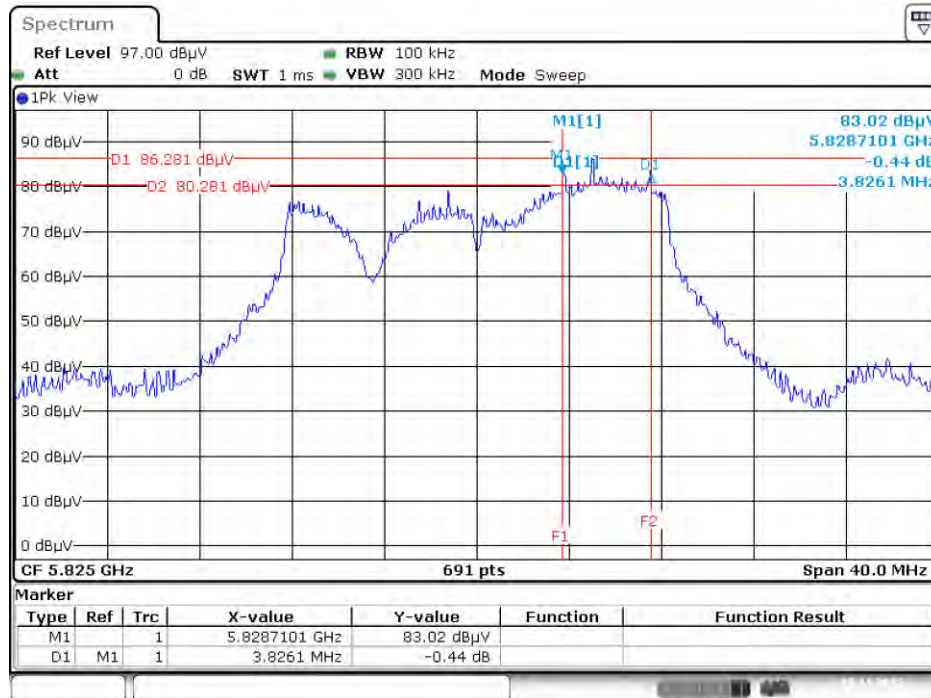
6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz



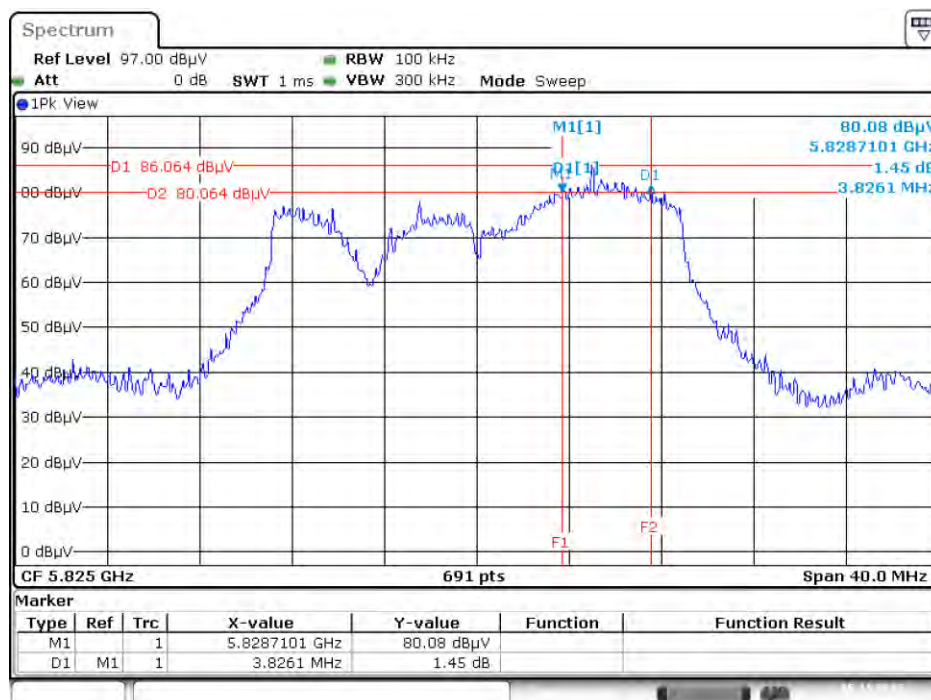
Date: 11.NOV.2015 01:04:39

Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi

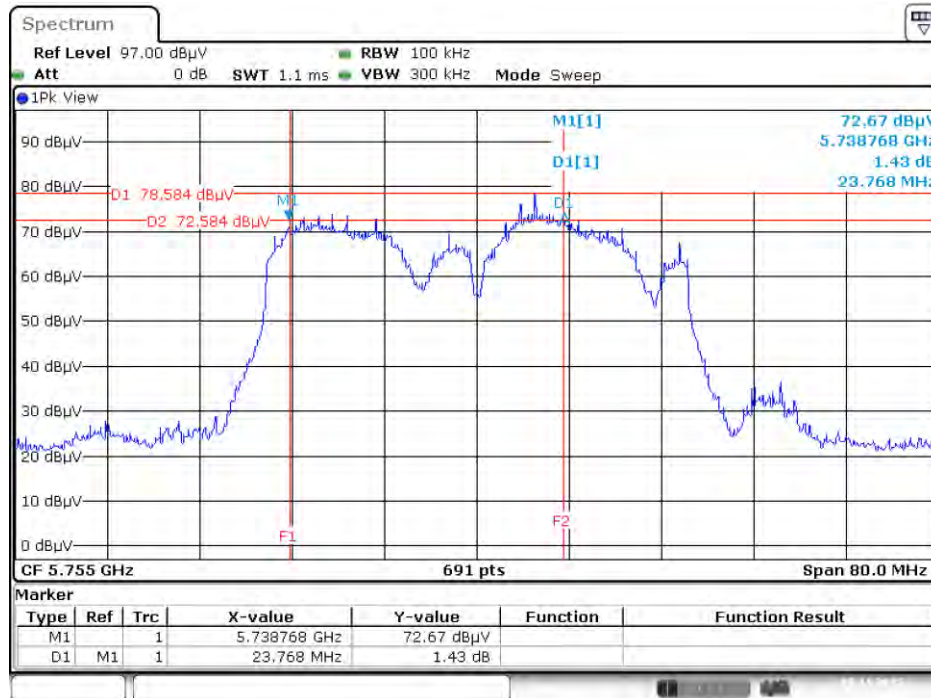
6 dB Bandwidth Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5825 MHz



6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5825 MHz

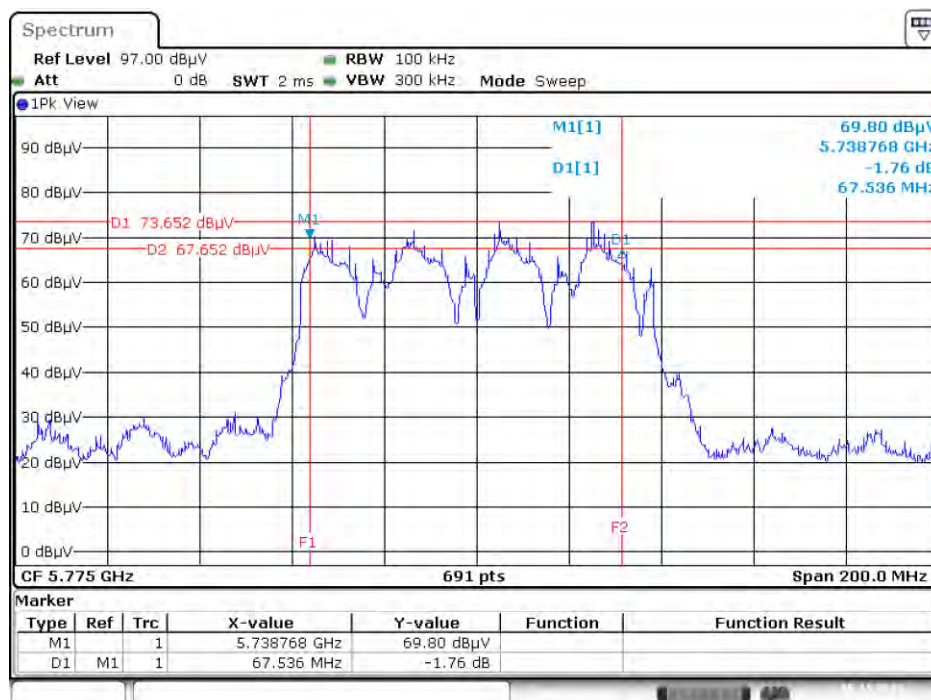


6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5755 MHz



Date: 5.NOV.2015 17:40:13

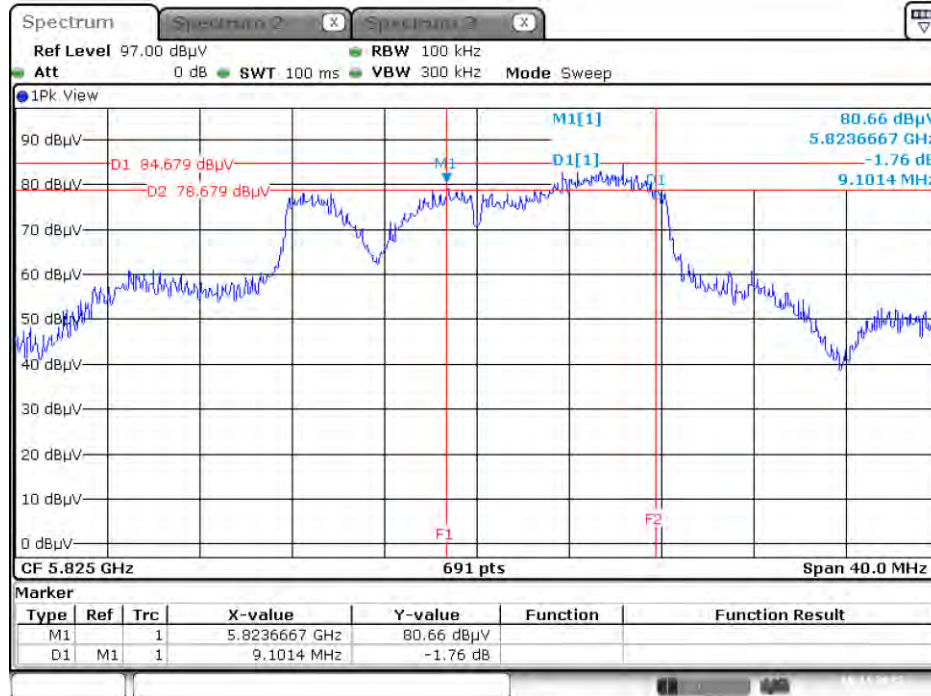
6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz



Date: 5.NOV.2015 17:42:23

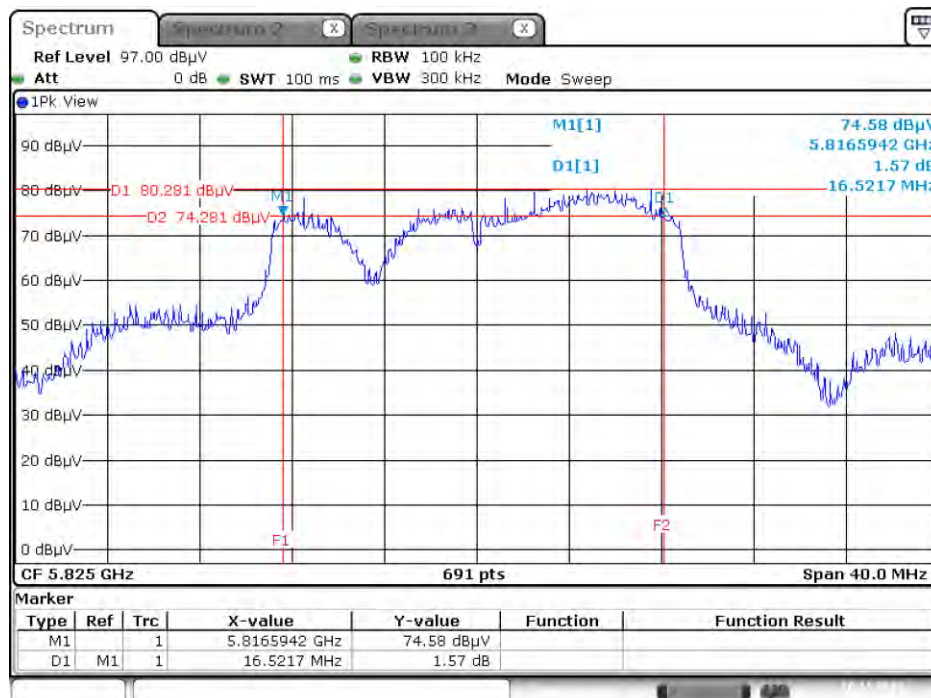
Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi

6 dB Bandwidth Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5825 MHz



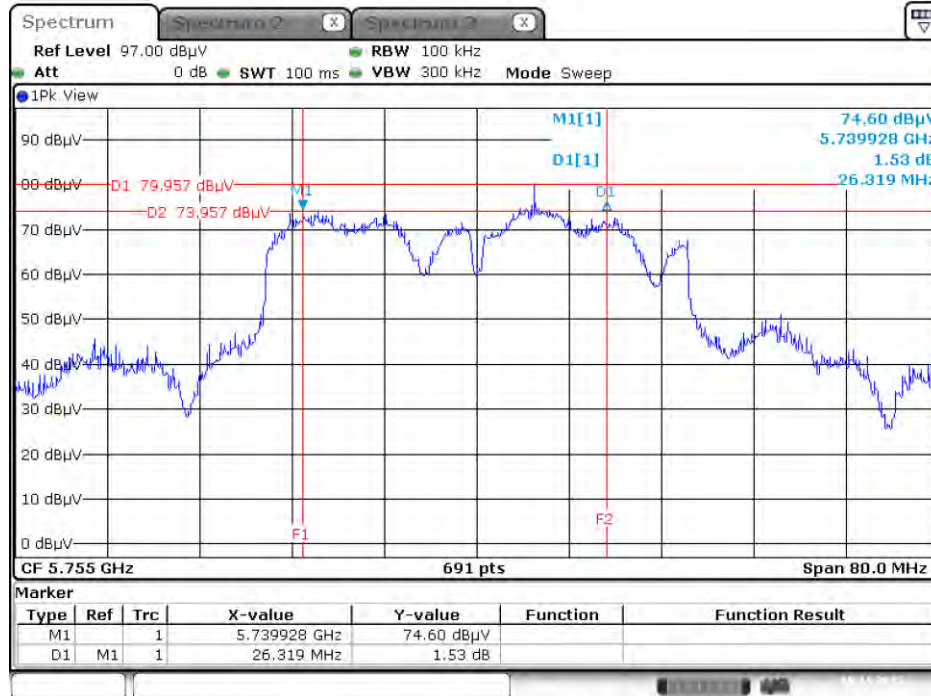
Date: 10 NOV. 2015 20:42:21

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5825 MHz



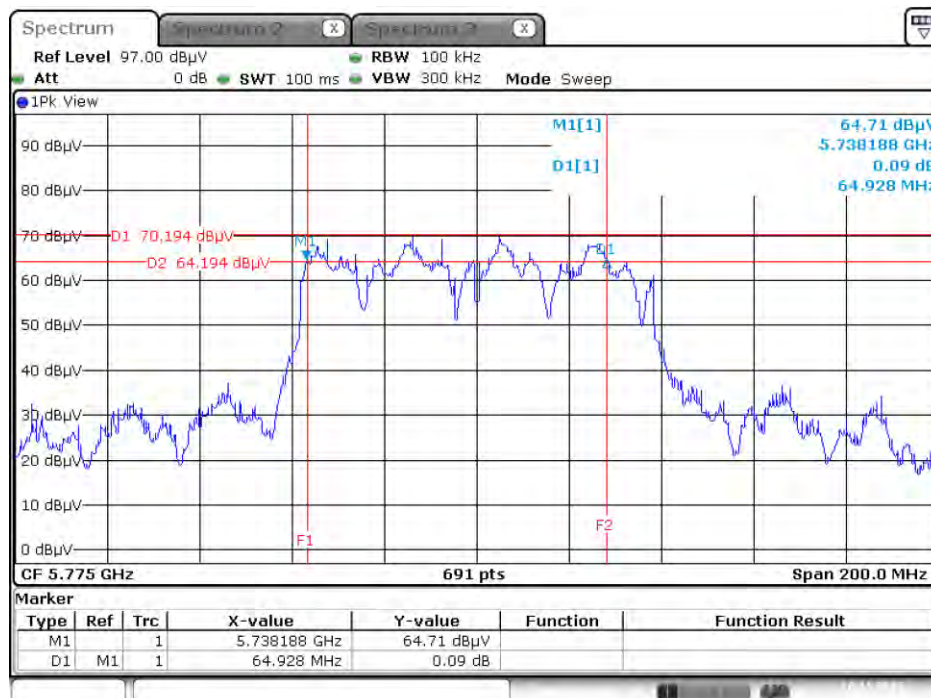
Date: 10 NOV. 2015 20:42:58

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5755 MHz



Date: 10 NOV. 2015 20:43:58

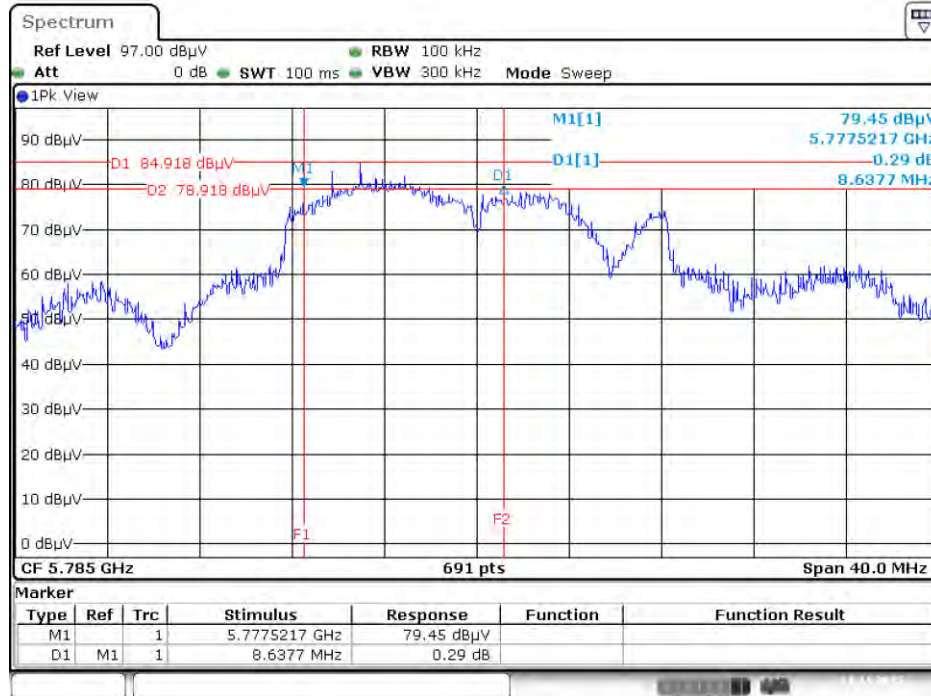
6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz



Date: 10 NOV. 2015 20:45:19

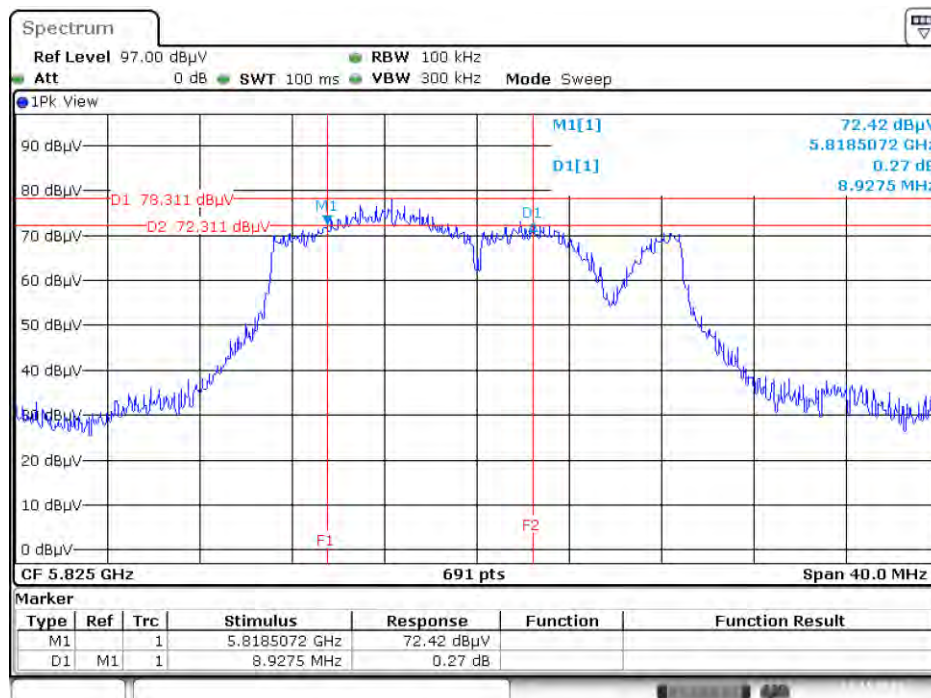
Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi

6 dB Bandwidth Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



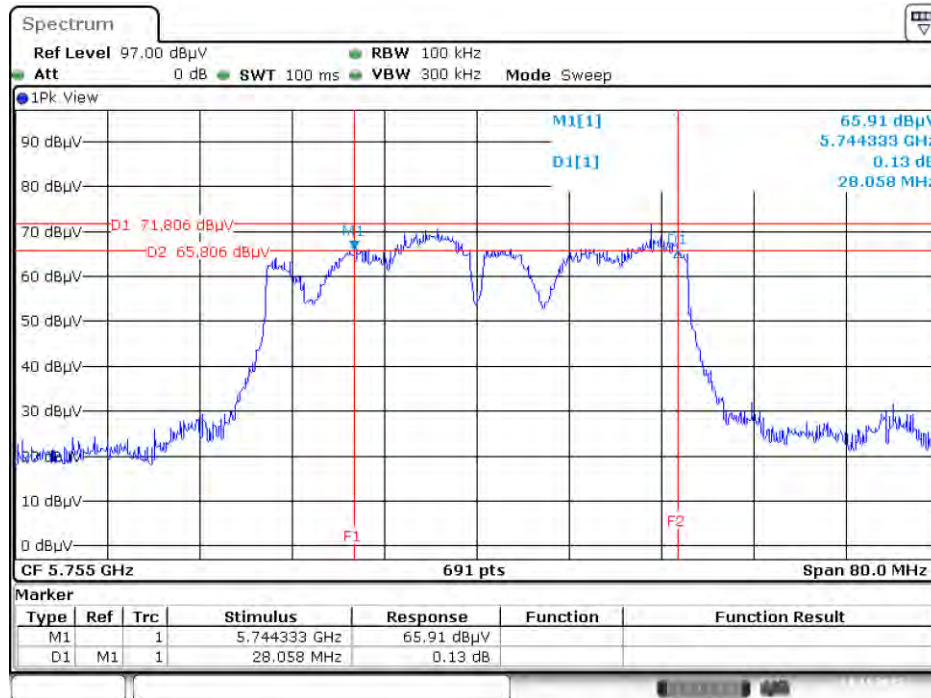
Date: 11.NOV.2015 20:34:08

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5825 MHz



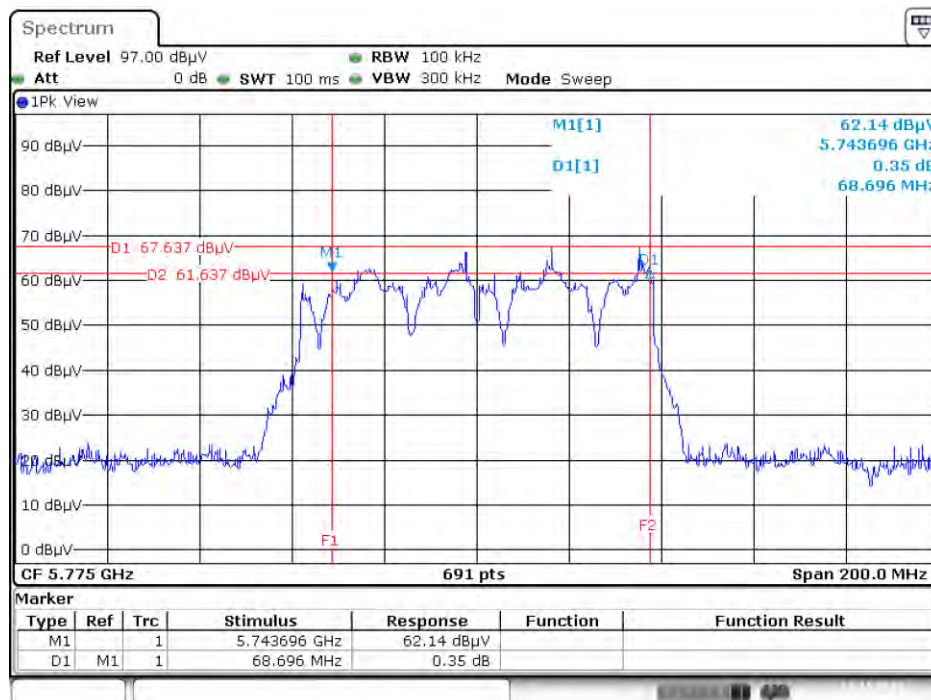
Date: 11.NOV.2015 20:36:11

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5755 MHz



Date: 11.NOV.2015 20:36:40

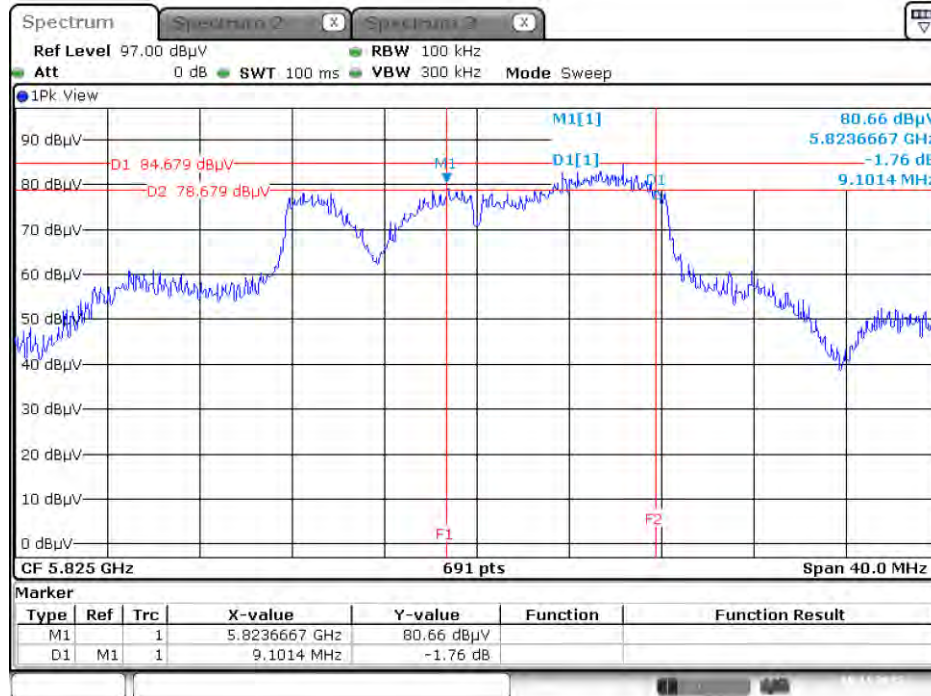
6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz



Date: 11.NOV.2015 20:33:11

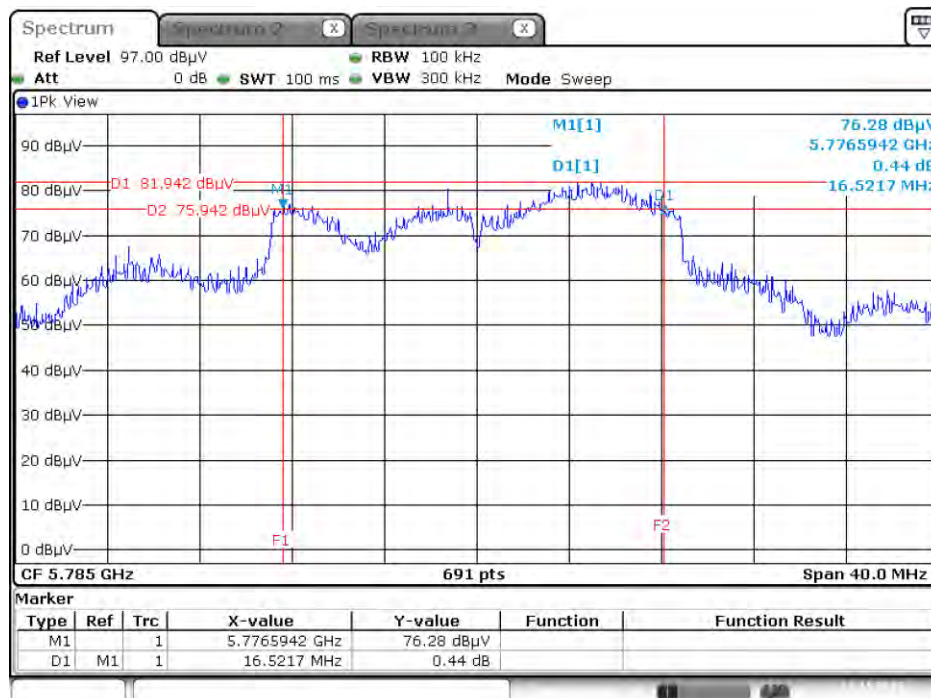
Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi

6 dB Bandwidth Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5825 MHz



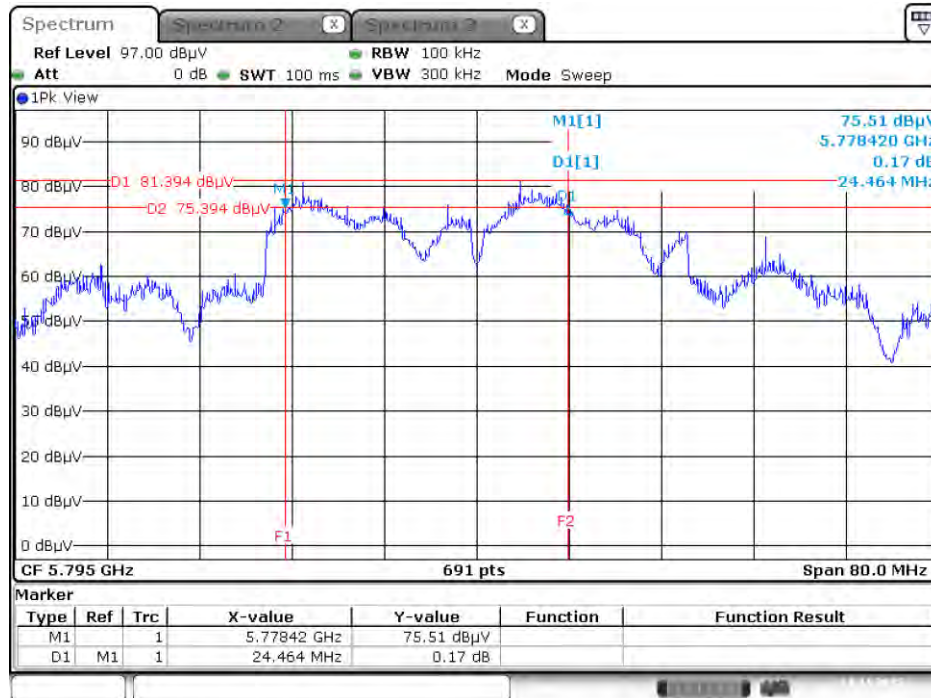
Date: 10.NOV.2015 20:42:21

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785Hz



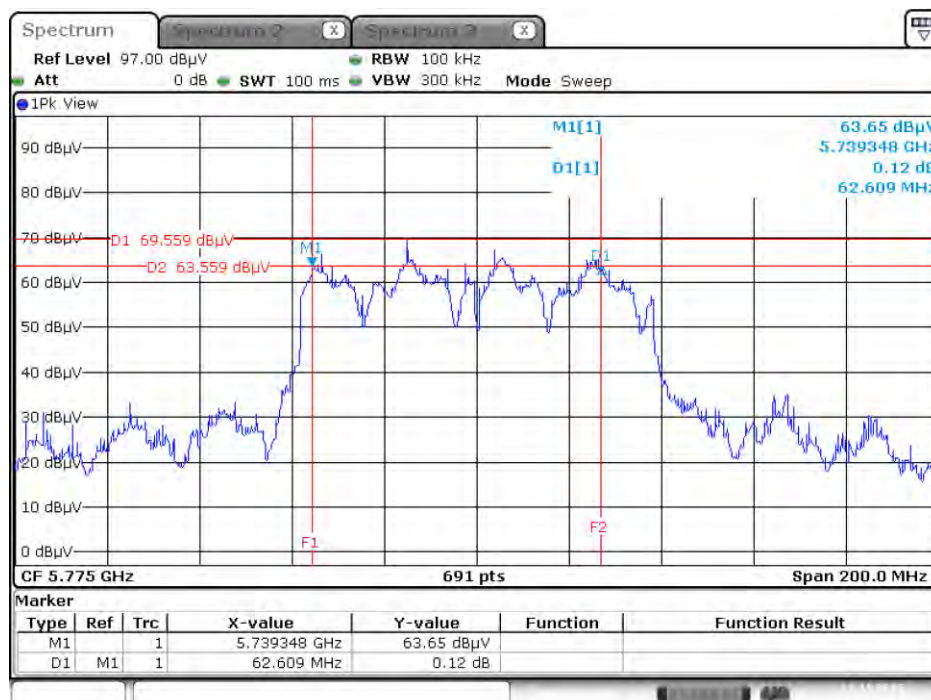
Date: 11.NOV.2015 00:17:20

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5795 MHz



Date: 11.NOV.2015 00:15:01

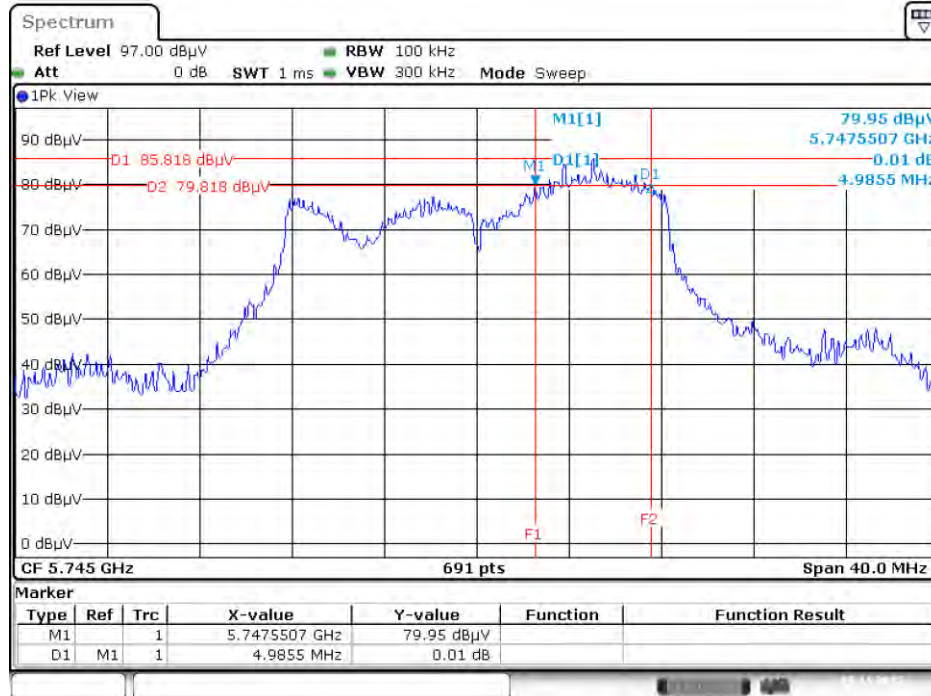
6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz



Date: 11.NOV.2015 00:13:47

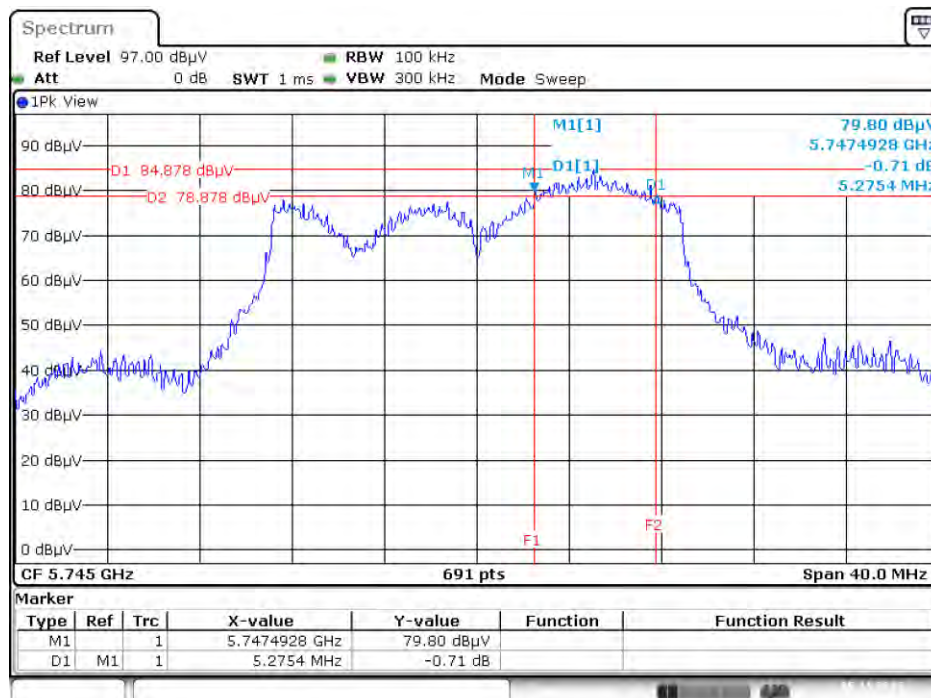
Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi

6 dB Bandwidth Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5745 MHz



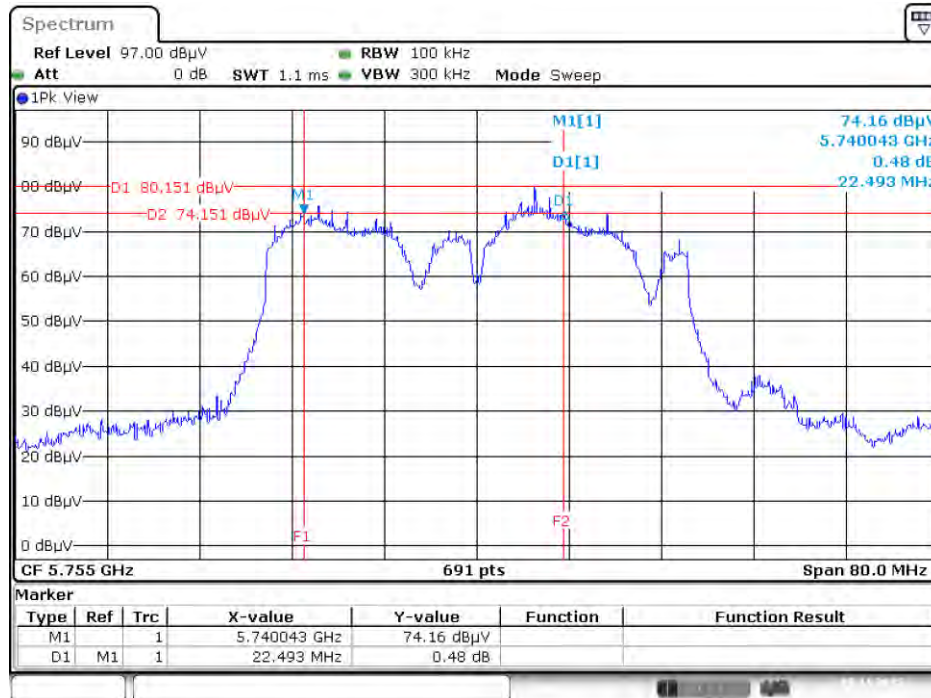
Date: 5.NOV.2015 14:33:24

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5745 MHz

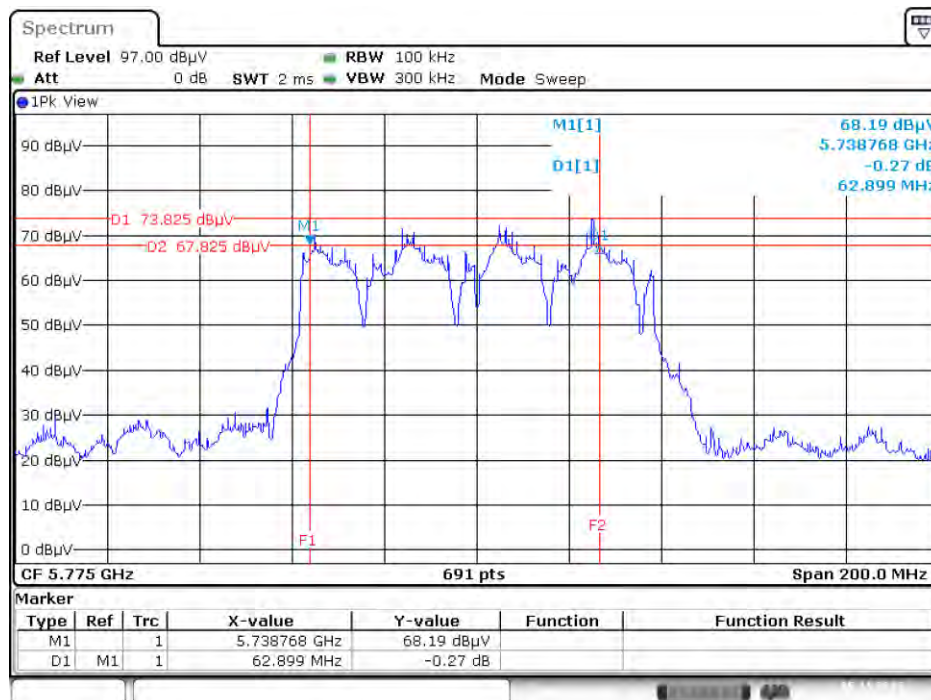


Date: 5.NOV.2015 14:36:17

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5755 MHz

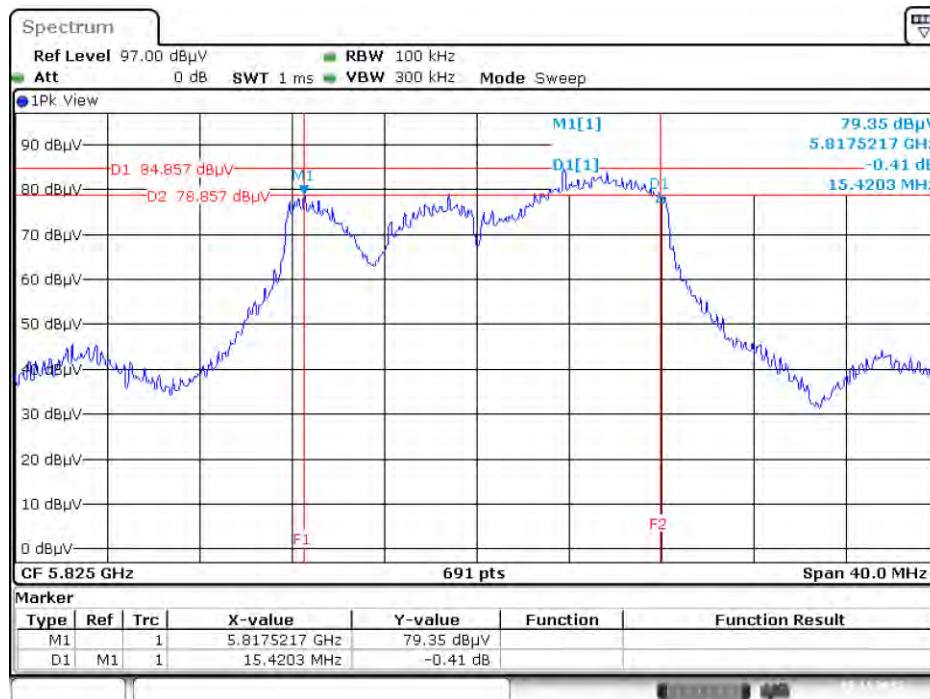


6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz



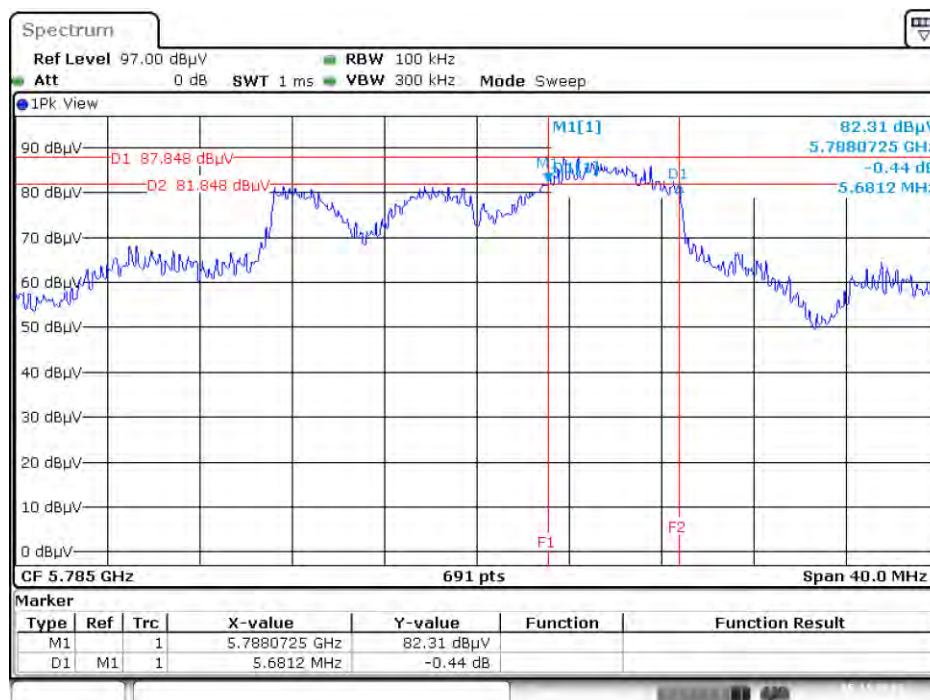
Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi

6 dB Bandwidth Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5825 MHz



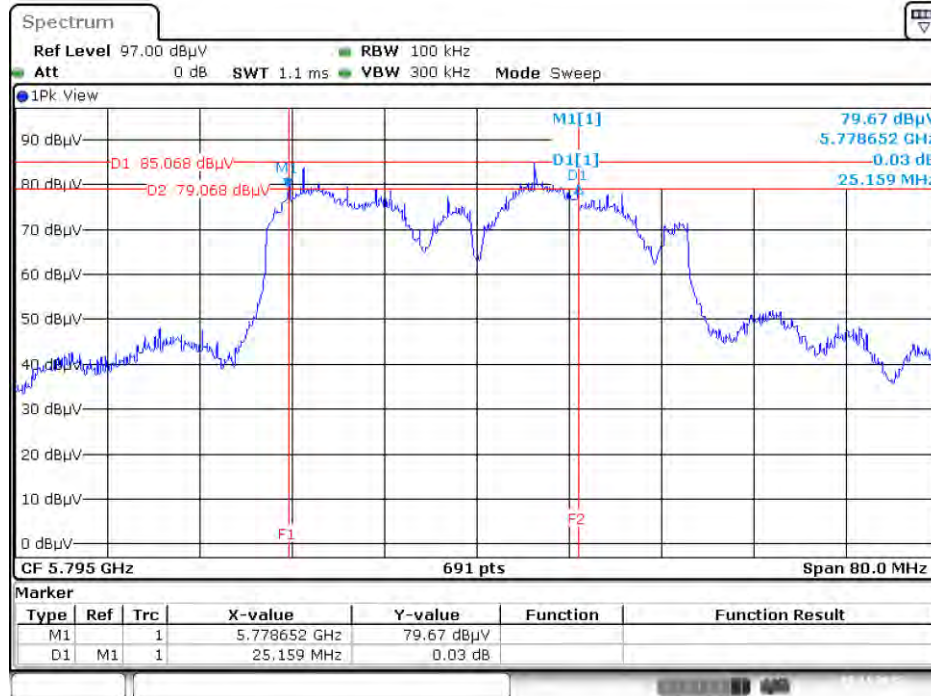
Date: 5.NOV.2015 11:30:48

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



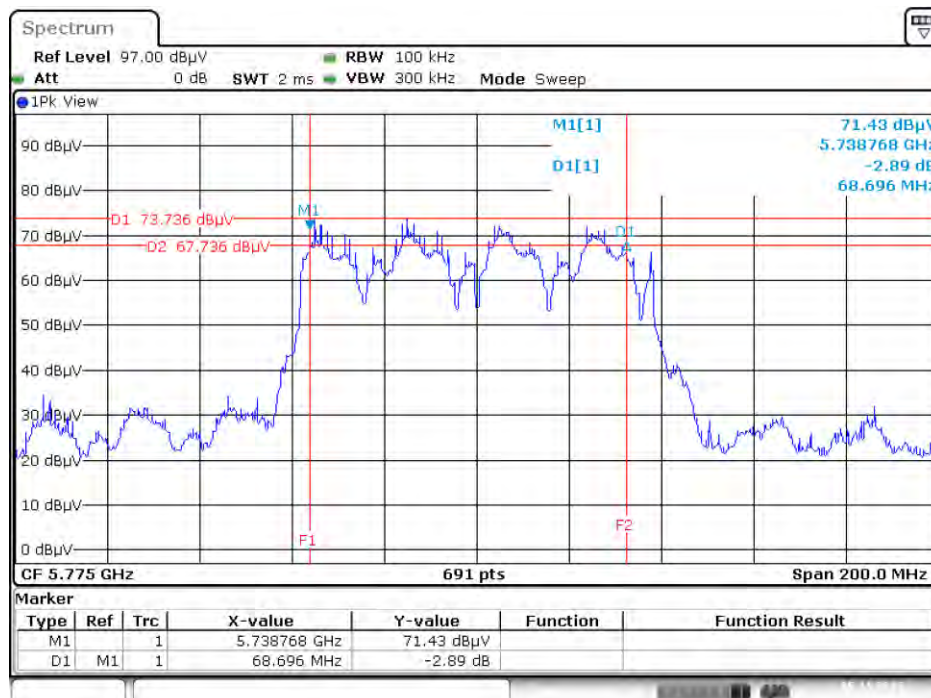
Date: 5.NOV.2015 11:33:33

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5795 MHz



Date: 5 NOV 2015 11:36:03

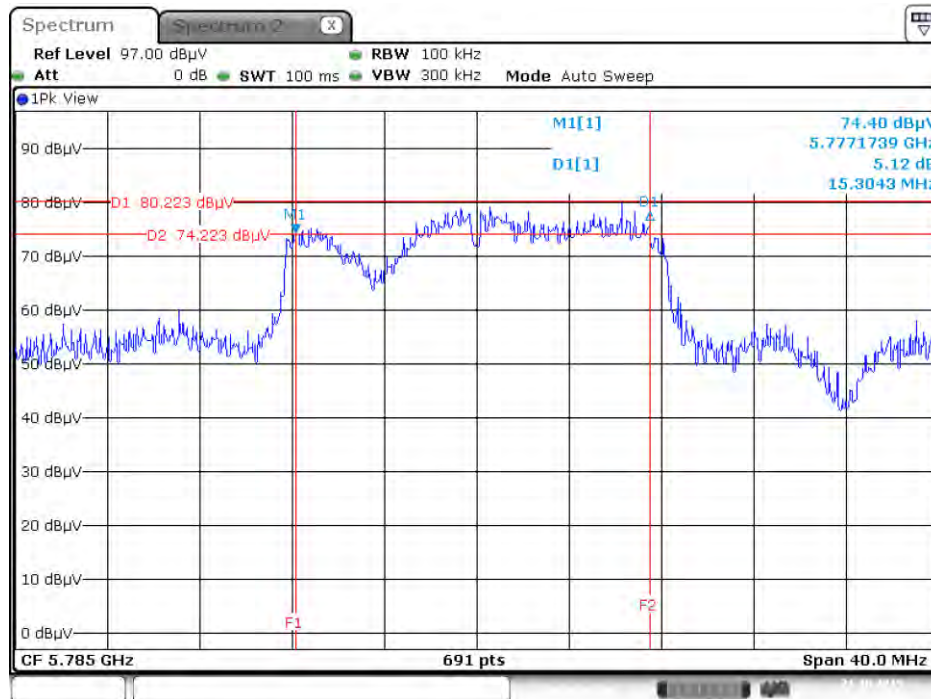
6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz



Date: 5 NOV 2015 11:28:44

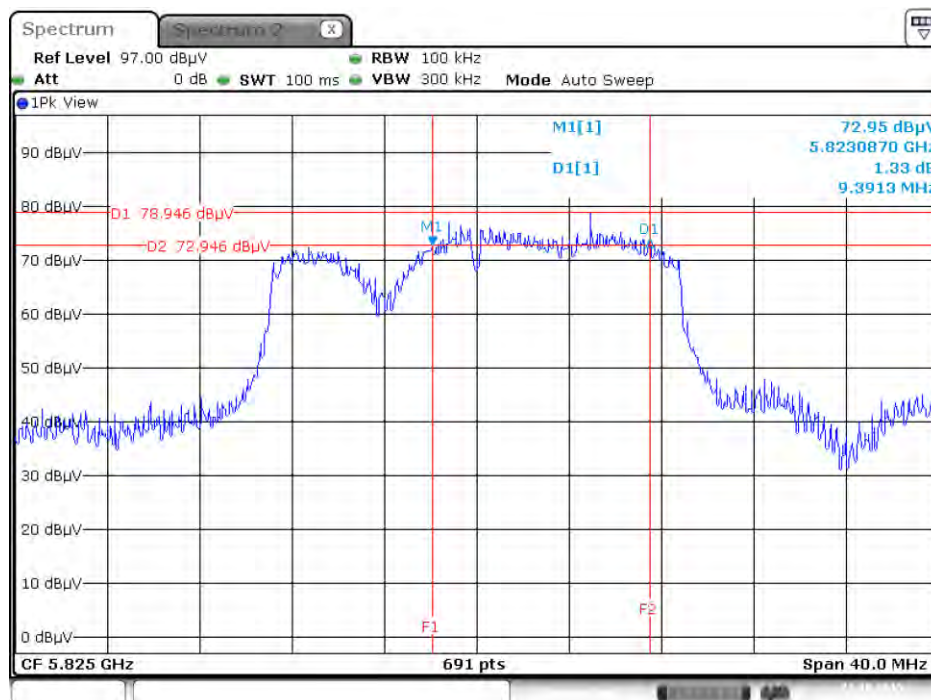
Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi

6 dB Bandwidth Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



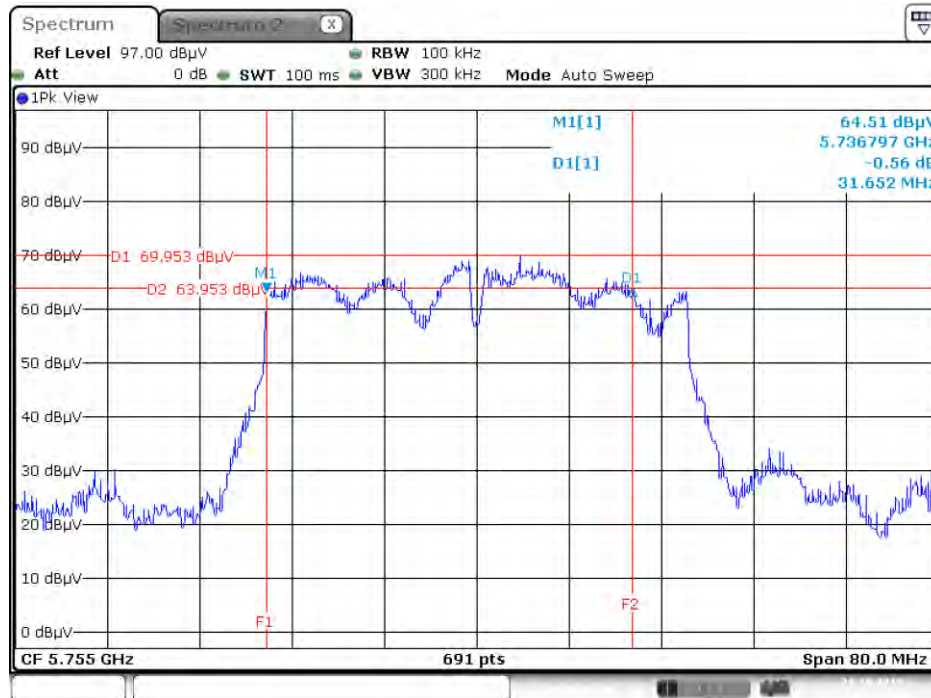
Date: 21.OCT.2015 00:28:43

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5825 MHz



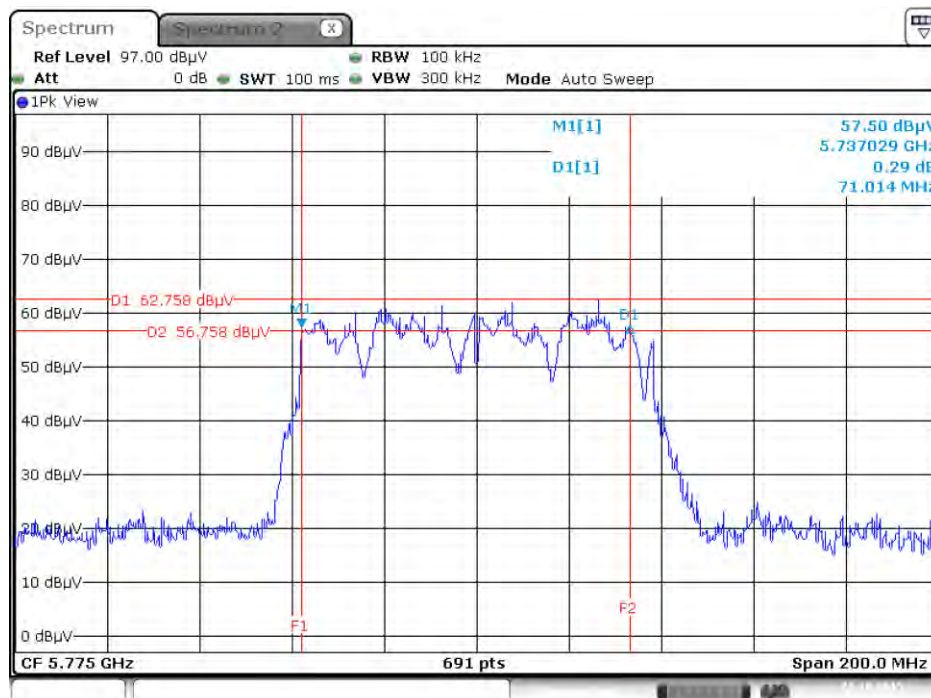
Date: 21.OCT.2015 00:30:46

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5755 MHz



Date: 21.OCT.2015 00:31:35

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz



Date: 21.OCT.2015 00:32:41

4.4. Maximum Conducted Output Power Measurement

4.4.1. Limit

Frequency Band	Limit
<input checked="" type="checkbox"/> 5.15~5.25 GHz	
Operating Mode	
<input type="checkbox"/> Outdoor access point	<p>The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).</p>
<input checked="" type="checkbox"/> Indoor access point	<p>The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>
<input type="checkbox"/> Fixed point-to-point access points	<p>The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.</p>
<input type="checkbox"/> Mobile and portable client devices	<p>The maximum conducted output power over the frequency band of operation shall not exceed 250 mW (24dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>

☒	5.725~5.85 GHz	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.
---	----------------	--

4.4.2. Measuring Instruments and Setting

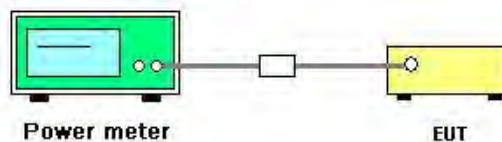
Please refer to section 5 of equipments list in this report. The following table is the setting of the power meter.

Power Meter Parameter	Setting
Detector	AVERAGE

4.4.3. Test Procedures

1. The transmitter output (antenna port) was connected to the power meter.
2. Test was performed in accordance with KDB789033 D02 v01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (E) Maximum conducted output power =>3. Measurement using a Power Meter (PM) =>b) Method PM-G (Measurement using a gated RF average power meter).
3. Multiple antenna systems was performed in accordance with KDB662911 D01 v02r01 Emissions Testing of Transmitters with Multiple Outputs in the Same Band.
4. When measuring maximum conducted output power with multiple antenna systems, add every result of the values by mathematic formula.

4.4.4. Test Setup Layout



4.4.5. Test Deviation

There is no deviation with the original standard.

4.4.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.4.7. Test Result of Maximum Conducted Output Power

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang	Test Date	Oct. 23, 2015 ~ Nov. 10, 2015
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Mode	Frequency	Conducted Power (dBm)					Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3	Chain 4	Total		
802.11a	5180 MHz	17.43	18.81	18.01	18.48	24.23	29.00	Complies
	5200 MHz	19.29	20.16	19.25	19.67	25.63	29.00	Complies
	5240 MHz	19.17	20.24	19.28	19.43	25.57	29.00	Complies
	5745 MHz	16.23	17.25	17.38	17.41	23.11	29.00	Complies
	5785 MHz	20.95	21.18	21.23	21.39	27.21	29.00	Complies
	5825 MHz	20.24	20.47	20.38	20.54	26.43	29.00	Complies
802.11ac MCS0/Nss1 VHT20	5180 MHz	17.79	18.62	17.91	18.39	24.21	29.00	Complies
	5200 MHz	19.95	20.27	19.18	19.84	25.85	29.00	Complies
	5240 MHz	19.09	20.11	19.23	19.68	25.57	29.00	Complies
	5745 MHz	16.34	16.84	17.26	17.06	22.91	29.00	Complies
	5785 MHz	20.15	20.86	20.98	21.45	26.91	29.00	Complies
	5825 MHz	18.02	18.15	17.96	18.30	24.13	29.00	Complies
802.11ac MCS0/Nss1 VHT40	5190 MHz	13.97	14.95	14.76	14.23	20.52	29.00	Complies
	5230 MHz	19.45	20.59	19.77	19.85	25.96	29.00	Complies
	5755 MHz	14.89	15.86	16.03	15.92	21.72	29.00	Complies
	5795 MHz	17.45	17.73	18.06	18.21	23.89	29.00	Complies
802.11ac MCS0/Nss1 VHT80	5210 MHz	9.51	10.58	9.89	9.89	16.01	29.00	Complies
	5775 MHz	11.43	12.25	12.65	12.28	18.20	29.00	Complies

Note: Antenna gain=7.00dBi > 6dBi, So Limit =30-(7.00-6)=29.00dBm.

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang	Test Date	Oct. 23, 2015 ~ Nov. 05, 2015
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Mode	Frequency	Conducted Power (dBm)					Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3	Chain 4	Total		
802.11a	5180 MHz	17.43	18.81	18.01	18.48	24.23	29.50	Complies
	5200 MHz	20.46	20.87	21.13	20.48	26.76	29.50	Complies
	5240 MHz	20.32	21.15	20.98	20.51	26.77	29.50	Complies
	5745 MHz	17.57	18.78	19.09	18.95	24.66	29.50	Complies
	5785 MHz	21.38	21.66	21.75	21.94	27.71	29.50	Complies
	5825 MHz	17.16	17.75	17.89	18.12	23.76	29.50	Complies
802.11ac MCS0/Nss1 VHT20	5180 MHz	17.14	18.10	17.16	17.98	23.64	29.50	Complies
	5200 MHz	20.79	20.59	19.67	20.28	26.37	29.50	Complies
	5240 MHz	20.34	20.89	20.78	20.15	26.57	29.50	Complies
	5745 MHz	15.09	15.92	16.24	16.32	21.94	29.50	Complies
	5785 MHz	20.15	20.86	20.98	21.45	26.91	29.50	Complies
	5825 MHz	16.56	17.02	17.56	17.62	23.23	29.50	Complies
802.11ac MCS0/Nss1 VHT40	5190 MHz	12.31	13.46	12.76	13.73	19.12	29.50	Complies
	5230 MHz	19.45	20.59	19.77	19.85	25.96	29.50	Complies
	5755 MHz	11.38	12.48	12.46	12.84	18.34	29.50	Complies
	5795 MHz	17.45	17.73	18.06	18.21	23.89	29.50	Complies
802.11ac MCS0/Nss1 VHT80	5210 MHz	8.67	9.95	8.83	8.74	15.10	29.50	Complies
	5775 MHz	10.02	10.91	10.93	11.42	16.87	29.50	Complies

Note: Antenna gain=6.50dBi > 6dBi, So Limit =30-(6.50-6)=29.50dBm.

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang	Test Date	Oct. 23, 2015 ~ Nov. 05, 2015
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Mode	Frequency	Conducted Power (dBm)					Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3	Chain 4	Total		
802.11a	5180 MHz	19.51	19.78	20.16	19.53	25.77	30.00	Complies
	5200 MHz	21.33	21.03	21.06	20.67	27.05	30.00	Complies
	5240 MHz	19.93	21.01	20.82	20.53	26.61	30.00	Complies
	5745 MHz	18.95	19.93	19.77	19.83	25.66	30.00	Complies
	5785 MHz	21.38	21.66	21.75	21.94	27.71	30.00	Complies
	5825 MHz	20.24	20.47	20.38	20.54	26.43	30.00	Complies
802.11ac MCS0/Nss1 VHT20	5180 MHz	19.17	19.56	20.03	19.29	25.55	30.00	Complies
	5200 MHz	21.26	21.63	21.75	21.13	27.47	30.00	Complies
	5240 MHz	20.34	20.89	20.78	20.15	26.57	30.00	Complies
	5745 MHz	16.34	16.84	17.26	17.06	22.91	30.00	Complies
	5785 MHz	20.15	20.86	20.98	21.45	26.91	30.00	Complies
	5825 MHz	18.02	18.15	17.96	18.30	24.13	30.00	Complies
802.11ac MCS0/Nss1 VHT40	5190 MHz	15.33	16.30	15.73	15.84	21.83	30.00	Complies
	5230 MHz	19.45	20.59	19.77	19.85	25.96	30.00	Complies
	5755 MHz	16.03	16.46	16.67	16.81	22.52	30.00	Complies
	5795 MHz	18.32	18.78	18.67	18.82	24.67	30.00	Complies
802.11ac MCS0/Nss1 VHT80	5210 MHz	9.51	10.58	9.89	9.89	16.01	30.00	Complies
	5775 MHz	12.42	13.12	12.89	13.05	18.90	30.00	Complies

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang	Test Date	Oct. 23, 2015 ~ Nov. 10, 2015
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Mode	Frequency	Conducted Power (dBm)					Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3	Chain 4	Total		
802.11a	5180 MHz	17.73	18.36	18.69	18.35	24.32	28.50	Complies
	5200 MHz	18.99	19.38	19.77	19.45	25.43	28.50	Complies
	5240 MHz	19.16	19.38	19.87	19.52	25.51	28.50	Complies
	5745 MHz	16.82	16.65	16.47	16.79	22.71	28.50	Complies
	5785 MHz	22.04	22.24	21.84	22.05	28.07	28.50	Complies
	5825 MHz	18.36	18.31	17.76	18.39	24.23	28.50	Complies
802.11ac MCS0/Nss1 VHT20	5180 MHz	18.14	18.76	19.14	18.75	24.73	28.50	Complies
	5200 MHz	18.84	19.33	19.87	19.36	25.39	28.50	Complies
	5240 MHz	19.13	18.99	19.88	19.51	25.41	28.50	Complies
	5745 MHz	16.74	16.48	16.68	16.77	22.69	28.50	Complies
	5785 MHz	21.57	21.69	21.34	21.63	27.58	28.50	Complies
	5825 MHz	17.72	17.68	17.47	17.77	23.68	28.50	Complies
802.11ac MCS0/Nss1 VHT40	5190 MHz	14.53	14.77	15.35	14.98	20.94	28.50	Complies
	5230 MHz	18.50	18.46	19.23	18.78	24.77	28.50	Complies
	5755 MHz	14.87	14.61	14.88	14.69	20.78	28.50	Complies
	5795 MHz	18.54	18.33	18.33	18.13	24.36	28.50	Complies
802.11ac MCS0/Nss1 VHT80	5210 MHz	9.11	9.18	9.84	9.52	15.44	28.50	Complies
	5775 MHz	11.73	11.55	11.87	11.49	17.68	28.50	Complies

Note: Antenna gain=7.50dBi > 6dBi, So Limit =30-(7.50-6)=28.50dBm.

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang	Test Date	Oct. 23, 2015 ~ Nov. 05, 2015
Test Mode	Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi		

Mode	Frequency	Conducted Power (dBm)					Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3	Chain 4	Total		
802.11a	5180 MHz	20.56	20.71	20.98	20.57	26.73	30.00	Complies
	5200 MHz	21.83	21.53	21.56	21.34	27.59	30.00	Complies
	5240 MHz	19.93	21.01	20.82	20.53	26.61	30.00	Complies
	5745 MHz	18.95	19.93	19.77	19.83	25.66	30.00	Complies
	5785 MHz	21.87	22.82	23.39	22.88	28.79	30.00	Complies
	5825 MHz	20.24	20.47	20.38	20.54	26.43	30.00	Complies
802.11ac MCS0/Nss1 VHT20	5180 MHz	20.19	20.52	20.96	20.23	26.51	30.00	Complies
	5200 MHz	21.97	22.09	22.15	21.93	28.06	30.00	Complies
	5240 MHz	21.64	22.38	22.18	21.72	28.01	30.00	Complies
	5745 MHz	16.98	18.83	18.32	18.96	24.36	30.00	Complies
	5785 MHz	20.39	21.32	21.42	21.97	27.33	30.00	Complies
	5825 MHz	19.01	18.68	19.21	19.12	25.03	30.00	Complies
802.11ac MCS0/Nss1 VHT40	5190 MHz	14.83	15.78	15.23	15.34	21.33	30.00	Complies
	5230 MHz	19.45	20.59	19.77	19.85	25.96	30.00	Complies
	5755 MHz	16.03	16.46	16.67	16.81	22.52	30.00	Complies
	5795 MHz	21.56	22.35	23.21	23.01	28.60	30.00	Complies
802.11ac MCS0/Nss1 VHT80	5210 MHz	10.53	11.62	10.96	10.87	17.03	30.00	Complies
	5775 MHz	12.96	13.67	13.33	13.59	19.42	30.00	Complies

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang	Test Date	Oct. 23, 2015 ~ Nov. 05, 2015
Test Mode	Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi		

Mode	Frequency	Conducted Power (dBm)					Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3	Chain 4	Total		
802.11a	5180 MHz	14.73	15.35	15.36	16.13	21.44	30.00	Complies
	5200 MHz	21.33	21.03	21.06	20.67	27.05	30.00	Complies
	5240 MHz	20.47	21.52	21.35	21.02	27.13	30.00	Complies
	5745 MHz	16.58	17.64	17.93	17.92	23.57	30.00	Complies
	5785 MHz	21.38	21.66	21.75	21.94	27.71	30.00	Complies
	5825 MHz	17.84	18.41	18.48	18.80	24.42	30.00	Complies
802.11ac MCS0/Nss1 VHT20	5180 MHz	14.64	14.70	14.75	14.27	20.61	30.00	Complies
	5200 MHz	19.58	20.18	19.52	19.05	25.62	30.00	Complies
	5240 MHz	20.75	21.04	21.16	20.67	26.93	30.00	Complies
	5745 MHz	16.43	18.33	17.85	18.31	23.82	30.00	Complies
	5785 MHz	20.15	20.86	20.98	21.45	26.91	30.00	Complies
	5825 MHz	16.56	17.02	17.56	17.62	23.23	30.00	Complies
802.11ac MCS0/Nss1 VHT40	5190 MHz	12.57	12.86	11.91	11.54	18.27	30.00	Complies
	5230 MHz	17.73	18.23	17.68	18.33	24.02	30.00	Complies
	5755 MHz	11.62	13.13	13.07	12.53	18.65	30.00	Complies
	5795 MHz	17.45	17.73	18.06	18.21	23.89	30.00	Complies
802.11ac MCS0/Nss1 VHT80	5210 MHz	9.51	10.58	9.89	9.89	16.01	30.00	Complies
	5775 MHz	9.04	8.47	9.84	10.20	15.46	30.00	Complies

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang	Test Date	Oct. 26, 2015 ~ Nov. 05, 2015
Test Mode	Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi		

Mode	Frequency	Conducted Power (dBm)					Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3	Chain 4	Total		
802.11a	5180 MHz	17.69	18.97	17.89	18.59	24.34	30.00	Complies
	5200 MHz	18.81	19.72	18.73	19.28	25.17	30.00	Complies
	5240 MHz	18.65	19.77	18.83	18.96	25.09	30.00	Complies
	5745 MHz	16.58	17.64	17.93	17.92	23.57	30.00	Complies
	5785 MHz	21.38	21.66	21.75	21.94	27.71	30.00	Complies
	5825 MHz	18.56	19.35	19.56	19.22	25.21	30.00	Complies
802.11ac MCS0/Nss1 VHT20	5180 MHz	18.05	19.05	18.13	18.63	24.50	30.00	Complies
	5200 MHz	19.79	19.59	18.67	19.28	25.37	30.00	Complies
	5240 MHz	18.47	19.63	18.74	19.21	25.06	30.00	Complies
	5745 MHz	16.72	17.79	17.97	18.01	23.67	30.00	Complies
	5785 MHz	21.18	22.16	22.34	22.06	27.98	30.00	Complies
	5825 MHz	18.37	19.18	19.42	19.13	25.06	30.00	Complies
802.11ac MCS0/Nss1 VHT40	5190 MHz	14.52	15.38	14.89	14.85	20.94	30.00	Complies
	5230 MHz	19.91	20.93	20.22	20.24	26.36	30.00	Complies
	5755 MHz	14.53	15.46	15.76	15.89	21.46	30.00	Complies
	5795 MHz	17.52	18.34	18.34	18.43	24.19	30.00	Complies
802.11ac MCS0/Nss1 VHT80	5210 MHz	11.35	12.56	11.89	11.23	17.81	30.00	Complies
	5775 MHz	11.14	12.02	12.14	12.38	17.97	30.00	Complies

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang	Test Date	Oct. 20, 2015
Test Mode	Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi		

Mode	Frequency	Conducted Power (dBm)					Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3	Chain 4	Total		
802.11a	5180 MHz	17.24	17.06	17.23	16.80	23.11	30.00	Complies
	5200 MHz	18.49	18.37	18.85	18.21	24.51	30.00	Complies
	5240 MHz	18.32	18.39	18.58	18.18	24.39	30.00	Complies
	5745 MHz	16.22	16.38	16.29	16.21	22.30	30.00	Complies
	5785 MHz	21.44	21.88	21.03	21.37	27.46	30.00	Complies
	5825 MHz	19.72	19.76	19.41	19.39	25.59	30.00	Complies
802.11ac MCS0/Nss1 VHT20	5180 MHz	18.47	17.96	18.21	17.88	24.16	30.00	Complies
	5200 MHz	18.49	18.09	18.19	17.85	24.18	30.00	Complies
	5240 MHz	18.21	18.06	18.12	17.85	24.08	30.00	Complies
	5745 MHz	17.92	17.81	17.91	17.81	23.88	30.00	Complies
	5785 MHz	23.16	23.02	22.13	22.82	28.82	30.00	Complies
	5825 MHz	21.05	20.89	20.52	20.25	26.71	30.00	Complies
802.11ac MCS0/Nss1 VHT40	5190 MHz	14.52	14.25	14.44	14.12	20.36	30.00	Complies
	5230 MHz	18.59	18.57	18.70	18.26	24.55	30.00	Complies
	5755 MHz	14.82	14.90	14.61	14.70	20.78	30.00	Complies
	5795 MHz	18.23	18.28	17.91	17.95	24.12	30.00	Complies
802.11ac MCS0/Nss1 VHT80	5210 MHz	9.74	9.62	9.66	9.63	15.68	30.00	Complies
	5775 MHz	10.25	10.29	10.04	10.10	16.19	30.00	Complies

4.5. Power Spectral Density Measurement

4.5.1. Limit

The following table is power spectral density limits and decrease power density limit rule refer to section 4.4.1.

Frequency Band		Limit
<input checked="" type="checkbox"/>	5.15~5.25 GHz	
	Operating Mode	
<input type="checkbox"/>	Outdoor access point	17 dBm/MHz
<input checked="" type="checkbox"/>	Indoor access point	17 dBm/MHz
<input type="checkbox"/>	Fixed point-to-point access points	17 dBm/MHz
<input type="checkbox"/>	Mobile and portable client devices	11 dBm/MHz
<input checked="" type="checkbox"/>	5.725~5.85 GHz	30 dBm/500kHz

4.5.2. Measuring Instruments and Setting

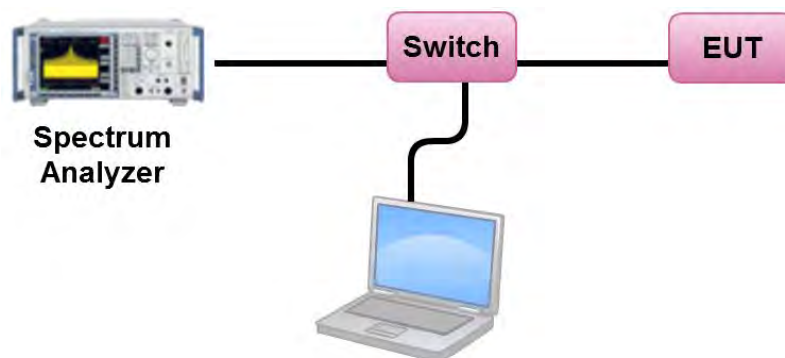
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	1000 kHz
VBW	3000 kHz
Detector	RMS
Trace	AVERAGE
Sweep Time	Auto
Trace Average	100 times
Note: If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/\text{RBW})$ to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.	

4.5.3. Test Procedures

1. The transmitter output (antenna port) was connected RF switch to the spectrum analyzer.
2. Test was performed in accordance with KDB789033 D02 v01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (F) Maximum Power Spectral Density (PSD).
3. Multiple antenna systems was performed in accordance KDB662911 D01 v02r01 in-Band Power Spectral Density (PSD) Measurements (a) Measure and sum the spectra across the outputs.
4. When measuring first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3 and so on up to the Nth output to obtain the value for the first frequency bin of the summed spectrum. The summed spectrum value for each of the other frequency bins is computed in the same way.
5. For 5.725~5.85 GHz, the measured result of PSD level must add $10\log(500\text{kHz}/\text{RBW})$ and the final result should ≤ 30 dBm.

4.5.4. Test Setup Layout



4.5.5. Test Deviation

There is no deviation with the original standard.

4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.5.7. Test Result of Power Spectral Density

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang	Test Date	Oct. 23, 2015 ~ Nov. 10, 2015
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	11.14	12.99	Complies
40	5200 MHz	12.47	12.99	Complies
48	5240 MHz	12.41	12.99	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.01 \text{ dBi} > 6 \text{ dBi}$, So Limit = 17 - (10.01 - 6) = 12.99 dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	9.96	-3.01	6.95	25.99	Complies
157	5785 MHz	14.07	-3.01	11.06	25.99	Complies
165	5825 MHz	13.19	-3.01	10.18	25.99	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.01 \text{ dBi} > 6 \text{ dBi}$, So Limit = 30 - (10.01 - 6) = 25.99 dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	11.09	12.99	Complies
40	5200 MHz	12.58	12.99	Complies
48	5240 MHz	12.55	12.99	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.01 \text{ dBi} > 6 \text{ dBi}$, So Limit = 17 - (10.01 - 6) = 12.99 dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	9.54	-3.01	6.53	25.99	Complies
157	5785 MHz	13.67	-3.01	10.66	25.99	Complies
165	5825 MHz	11.11	-3.01	8.10	25.99	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.01 \text{ dBi} > 6 \text{ dBi}$, So Limit = 30 - (10.01 - 6) = 25.99 dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	4.41	12.99	Complies
46	5230 MHz	9.89	12.99	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.01 \text{ dBi} > 6 \text{ dBi}$, So Limit = 17 - (10.01 - 6) = 12.99 dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	5.57	-3.01	2.56	25.99	Complies
159	5795 MHz	7.52	-3.01	4.51	25.99	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.01 \text{ dBi} > 6 \text{ dBi}$, So Limit = 30 - (10.01 - 6) = 25.99 dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-2.92	12.99	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.01 \text{ dBi} > 6 \text{ dBi}$, So Limit = 17 - (10.01 - 6) = 12.99 dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-0.95	-3.01	-3.96	25.99	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.01 \text{ dBi} > 6 \text{ dBi}$, So Limit = 30 - (10.01 - 6) = 25.99 dBm/500kHz.

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang	Test Date	Oct. 23, 2015 ~ Nov. 05, 2015
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	11.14	13.49	Complies
40	5200 MHz	13.41	13.49	Complies
48	5240 MHz	13.46	13.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 9.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 17 - (9.51 - 6) = 13.49 dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	11.53	-3.01	8.52	26.49	Complies
157	5785 MHz	14.54	-3.01	11.53	26.49	Complies
165	5825 MHz	10.74	-3.01	7.73	26.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 9.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 30 - (9.51 - 6) = 26.49 dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	10.49	13.49	Complies
40	5200 MHz	13.06	13.49	Complies
48	5240 MHz	13.20	13.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 9.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = $17 - (9.51 - 6) = 13.49 \text{ dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	8.70	-3.01	5.69	26.49	Complies
157	5785 MHz	13.67	-3.01	10.66	26.49	Complies
165	5825 MHz	10.17	-3.01	7.16	26.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 9.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = $30 - (9.51 - 6) = 26.49 \text{ dBm/500kHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	2.77	13.49	Complies
46	5230 MHz	9.89	13.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 9.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = $17 - (9.51 - 6) = 13.49 \text{ dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	2.10	-3.01	-0.91	26.49	Complies
159	5795 MHz	7.52	-3.01	4.51	26.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 9.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = $30 - (9.51 - 6) = 26.49 \text{ dBm/500kHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-2.80	13.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 9.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 17-(9.51-6)=13.49dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-2.46	-3.01	-5.47	26.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 9.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 30-(9.51-6)=26.49dBm/500kHz.

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang	Test Date	Oct. 23, 2015 ~ Nov. 05, 2015
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	12.54	14.49	Complies
40	5200 MHz	14.46	14.49	Complies
48	5240 MHz	14.05	14.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 17 - (8.51 - 6) = 14.49 dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	12.45	-3.01	9.44	27.49	Complies
157	5785 MHz	14.54	-3.01	11.53	27.49	Complies
165	5825 MHz	13.19	-3.01	10.18	27.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 30 - (8.51 - 6) = 27.49 dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	12.25	14.49	Complies
40	5200 MHz	14.33	14.49	Complies
48	5240 MHz	13.20	14.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 17 - (8.51 - 6) = 14.49 dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	9.54	-3.01	6.53	27.49	Complies
157	5785 MHz	13.67	-3.01	10.66	27.49	Complies
165	5825 MHz	11.11	-3.01	8.10	27.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 30 - (8.51 - 6) = 27.49 dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	5.74	14.49	Complies
46	5230 MHz	9.89	14.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 17 - (8.51 - 6) = 14.49 dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	6.49	-3.01	3.48	27.49	Complies
159	5795 MHz	8.41	-3.01	5.40	27.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 30 - (8.51 - 6) = 27.49 dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-2.92	14.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 17-(8.51-6)=14.49dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-0.25	-3.01	-3.26	27.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 30-(8.51-6)=27.49dBm/500kHz.

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang	Test Date	Oct. 23, 2015 ~ Nov. 10, 2015
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	11.51	12.49	Complies
40	5200 MHz	12.29	12.49	Complies
48	5240 MHz	12.26	12.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 17 - (10.51 - 6) = 12.49 dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	10.18	-3.01	7.17	25.49	Complies
157	5785 MHz	15.66	-3.01	12.65	25.49	Complies
165	5825 MHz	11.97	-3.01	8.96	25.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 30 - (10.51 - 6) = 25.49 dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	11.54	12.49	Complies
40	5200 MHz	12.19	12.49	Complies
48	5240 MHz	12.31	12.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 17 - (10.51 - 6) = 12.49 dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	9.97	-3.01	6.96	25.49	Complies
157	5785 MHz	14.90	-3.01	11.89	25.49	Complies
165	5825 MHz	11.12	-3.01	8.11	25.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 30 - (10.51 - 6) = 25.49 dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	5.17	12.49	Complies
46	5230 MHz	8.77	12.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 17 - (10.51 - 6) = 12.49 dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	5.54	-3.01	2.53	25.49	Complies
159	5795 MHz	9.21	-3.01	6.20	25.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 30 - (10.51 - 6) = 25.49 dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-2.58	12.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 17-(10.51-6)=12.49dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-1.59	-3.01	-4.60	25.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 30-(10.51-6)=25.49dBm/500kHz.

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang	Test Date	Oct. 23, 2015 ~ Nov. 05, 2015
Test Mode	Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi		

Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	13.81	15.49	Complies
40	5200 MHz	14.88	15.49	Complies
48	5240 MHz	14.05	15.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 17 - (7.51 - 6) = 15.49 dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	12.45	-3.01	9.44	28.49	Complies
157	5785 MHz	15.58	-3.01	12.57	28.49	Complies
165	5825 MHz	13.19	-3.01	10.18	28.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 30 - (7.51 - 6) = 28.49 dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	13.47	15.49	Complies
40	5200 MHz	14.96	15.49	Complies
48	5240 MHz	14.90	15.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 17 - (7.51 - 6) = 15.49 dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	11.24	-3.01	8.23	28.49	Complies
157	5785 MHz	14.15	-3.01	11.14	28.49	Complies
165	5825 MHz	12.01	-3.01	9.00	28.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 30 - (7.51 - 6) = 28.49 dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	5.20	15.49	Complies
46	5230 MHz	9.89	15.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 17 - (7.51 - 6) = 15.49 dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	6.49	-3.01	3.48	28.49	Complies
159	5795 MHz	12.27	-3.01	9.26	28.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 30 - (7.51 - 6) = 28.49 dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-2.68	15.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 17-(7.51-6)=15.49dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	0.53	-3.01	-2.48	28.49	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.51 \text{ dBi} > 6 \text{ dBi}$, So Limit = 30-(7.51-6)=28.49dBm/500kHz.

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang	Test Date	Oct. 23, 2015 ~ Nov. 05, 2015
Test Mode	Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi		

Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	9.91	15.99	Complies
40	5200 MHz	14.66	15.99	Complies
48	5240 MHz	14.38	15.99	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.01 \text{ dBi} > 6 \text{ dBi}$, So Limit = 17-(7.01-6)=15.99dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	10.32	-3.01	7.31	28.99	Complies
157	5785 MHz	14.54	-3.01	11.53	28.99	Complies
165	5825 MHz	12.25	-3.01	9.24	28.99	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.01 \text{ dBi} > 6 \text{ dBi}$, So Limit = 30-(7.01-6)=28.99dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	9.73	15.99	Complies
40	5200 MHz	13.50	15.99	Complies
48	5240 MHz	13.70	15.99	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.01 \text{ dBi} > 6 \text{ dBi}$, So Limit = 17 - (7.01 - 6) = 15.99 dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	10.55	-3.01	7.54	28.99	Complies
157	5785 MHz	13.67	-3.01	10.66	28.99	Complies
165	5825 MHz	10.17	-3.01	7.16	28.99	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.01 \text{ dBi} > 6 \text{ dBi}$, So Limit = 30 - (7.01 - 6) = 28.99 dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	2.93	15.99	Complies
46	5230 MHz	9.32	15.99	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.01 \text{ dBi} > 6 \text{ dBi}$, So Limit = 17 - (7.01 - 6) = 15.99 dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	2.29	-3.01	-0.72	28.99	Complies
159	5795 MHz	7.52	-3.01	4.51	28.99	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.01 \text{ dBi} > 6 \text{ dBi}$, So Limit = 30 - (7.01 - 6) = 28.99 dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-2.92	15.99	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.01 \text{ dBi} > 6 \text{ dBi}$, So Limit = 17-(7.01-6)=15.99dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-3.67	-3.01	-6.68	28.99	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.01 \text{ dBi} > 6 \text{ dBi}$, So Limit = 30-(7.01-6)=28.99dBm/500kHz.

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang	Test Date	Oct. 26, 2015 ~ Nov. 05, 2015
Test Mode	Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi		

Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	11.44	12.31	Complies
40	5200 MHz	12.25	12.31	Complies
48	5240 MHz	12.18	12.31	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.69\text{dBi} > 6\text{dBi}$, So Limit = $17 - (10.69 - 6) = 12.31\text{dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	10.32	-3.01	7.31	25.31	Complies
157	5785 MHz	14.54	-3.01	11.53	25.31	Complies
165	5825 MHz	12.25	-3.01	9.24	25.31	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.69\text{dBi} > 6\text{dBi}$, So Limit = $30 - (10.69 - 6) = 25.31\text{dBm/500kHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	11.50	12.31	Complies
40	5200 MHz	12.18	12.31	Complies
48	5240 MHz	12.24	12.31	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.69 \text{dBi} > 6 \text{dBi}$, So Limit = $17 - (10.69 - 6) = 12.31 \text{dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	10.55	-3.01	7.54	25.31	Complies
157	5785 MHz	14.66	-3.01	11.65	25.31	Complies
165	5825 MHz	11.93	-3.01	8.92	25.31	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.69 \text{dBi} > 6 \text{dBi}$, So Limit = $30 - (10.69 - 6) = 25.31 \text{dBm/500kHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	5.06	12.31	Complies
46	5230 MHz	10.35	12.31	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.69 \text{dBi} > 6 \text{dBi}$, So Limit = $17 - (10.69 - 6) = 12.31 \text{dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	4.63	-3.01	1.62	25.31	Complies
159	5795 MHz	8.90	-3.01	5.89	25.31	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.69 \text{dBi} > 6 \text{dBi}$, So Limit = $30 - (10.69 - 6) = 25.31 \text{dBm/500kHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-0.92	12.31	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.69 \text{dBi} > 6 \text{dBi}$, So Limit = 17-(10.69-6)=12.31 dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-1.49	-3.01	-4.50	25.31	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.69 \text{dBi} > 6 \text{dBi}$, So Limit = 30-(10.69-6)=25.31 dBm/500kHz.

Temperature	25°C	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang	Test Date	Oct. 20, 2015
Test Mode	Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi		

Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	9.94	11.27	Complies
40	5200 MHz	11.03	11.27	Complies
48	5240 MHz	10.91	11.27	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 11.73\text{dBi} > 6\text{dBi}$, So Limit = 17 - (11.73 - 6) = 11.27 dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	9.22	-3.01	6.21	24.27	Complies
157	5785 MHz	14.24	-3.01	11.23	24.27	Complies
165	5825 MHz	12.30	-3.01	9.29	24.27	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 11.73\text{dBi} > 6\text{dBi}$, So Limit = 30 - (11.73 - 6) = 24.27 dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	11.14	11.27	Complies
40	5200 MHz	11.17	11.27	Complies
48	5240 MHz	11.02	11.27	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 11.73 \text{dBi} > 6 \text{dBi}$, So Limit = $17 - (11.73 - 6) = 11.27 \text{dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	10.56	-3.01	7.55	24.27	Complies
157	5785 MHz	15.44	-3.01	12.43	24.27	Complies
165	5825 MHz	13.44	-3.01	10.43	24.27	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 11.73 \text{dBi} > 6 \text{dBi}$, So Limit = $30 - (11.73 - 6) = 24.27 \text{dBm/500kHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	4.26	11.27	Complies
46	5230 MHz	8.45	11.27	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 11.73 \text{dBi} > 6 \text{dBi}$, So Limit = $17 - (11.73 - 6) = 11.27 \text{dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	4.63	-3.01	1.62	24.27	Complies
159	5795 MHz	7.79	-3.01	4.78	24.27	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 11.73 \text{dBi} > 6 \text{dBi}$, So Limit = $30 - (11.73 - 6) = 24.27 \text{dBm/500kHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-3.55	11.27	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 11.73\text{dBi} > 6\text{dBi}$, So Limit = $17 - (11.73 - 6) = 11.27\text{dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-3.09	-3.01	-6.10	24.27	Complies

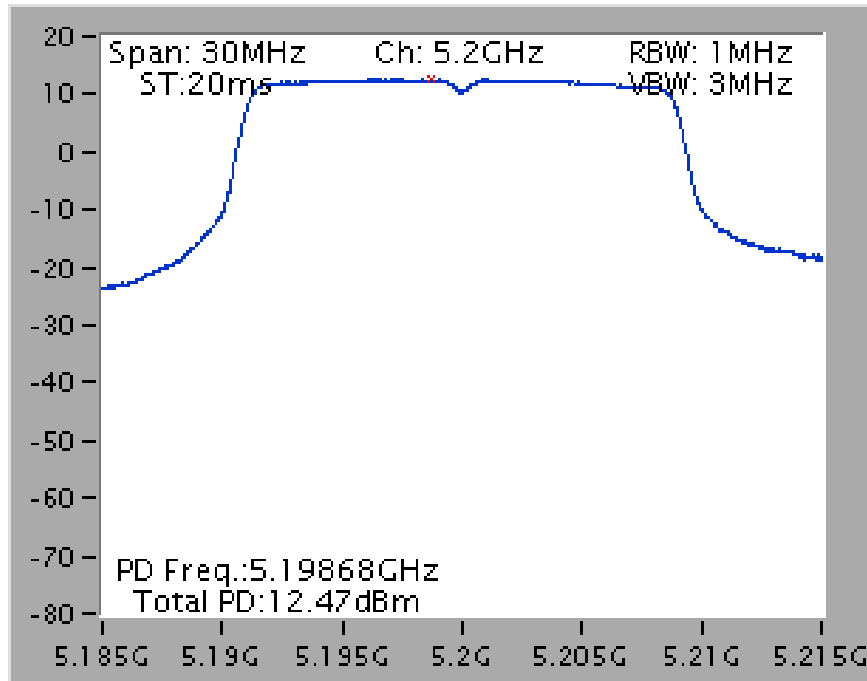
Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 11.73\text{dBi} > 6\text{dBi}$, So Limit = $30 - (11.73 - 6) = 24.27\text{dBm/500kHz}$.

Note: All the test values were listed in the report.

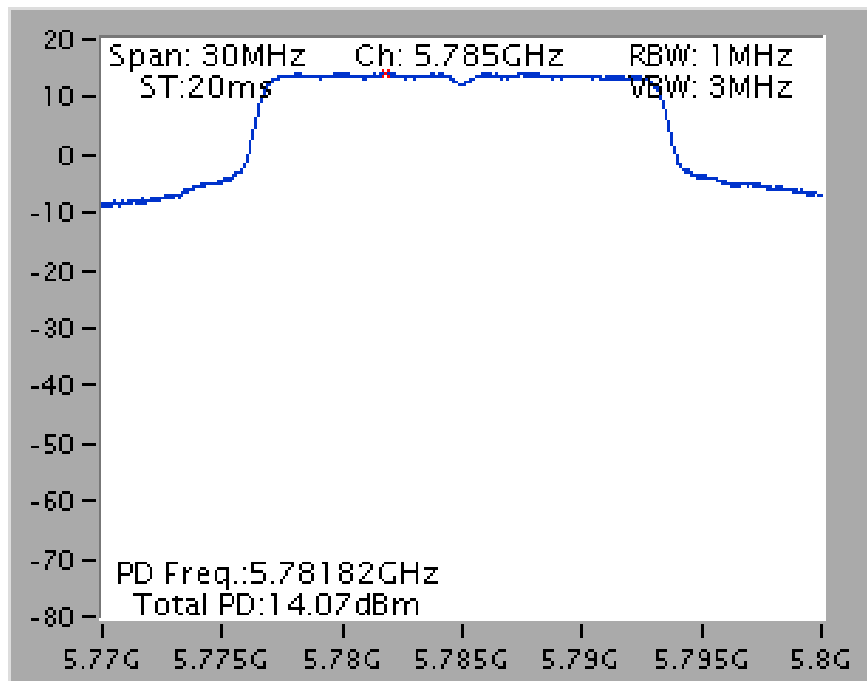
For plots, only the channel with worse result was shown.

Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi

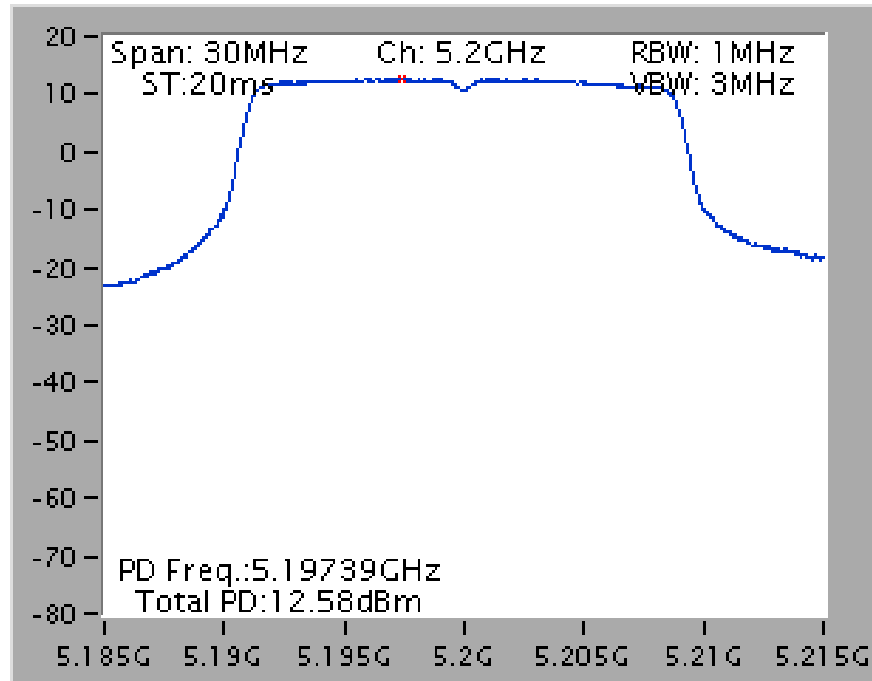
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5200 MHz



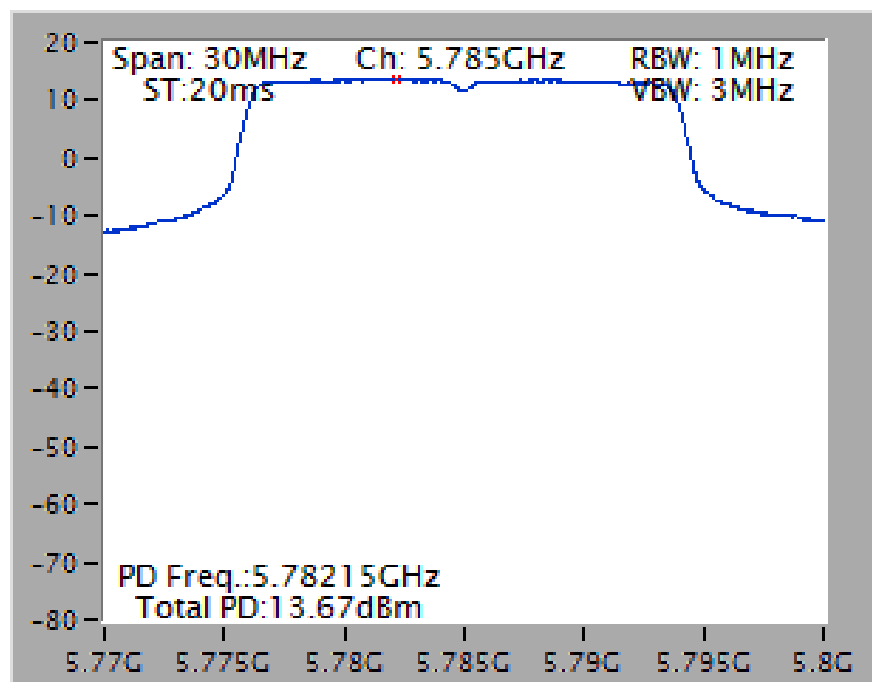
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



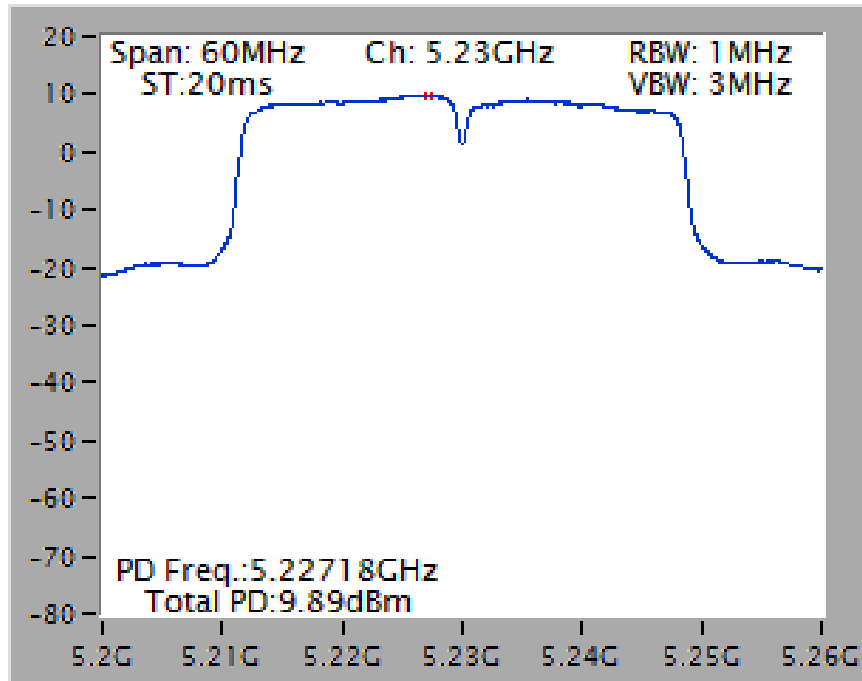
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3
+ Chain 4 / 5200 MHz**



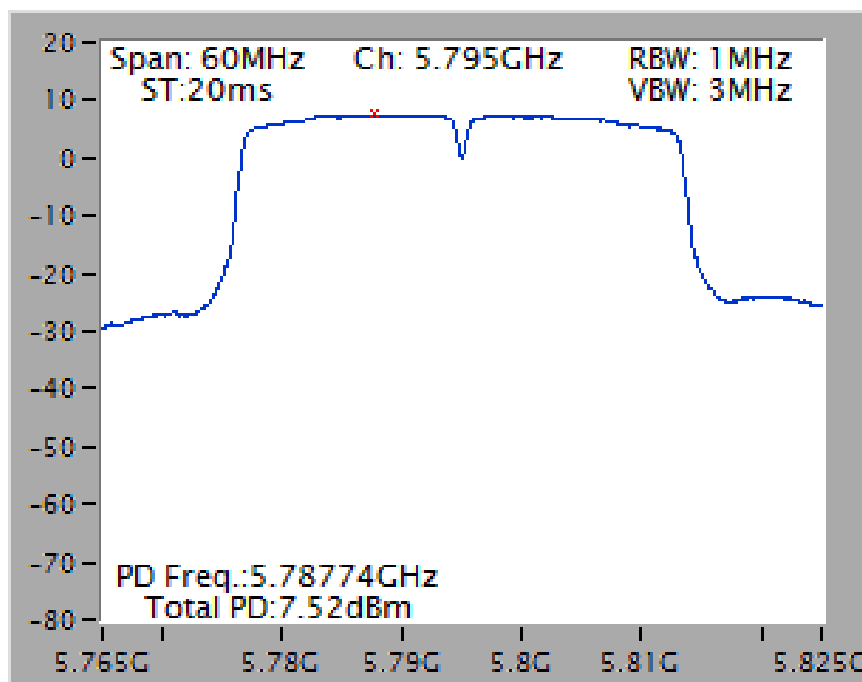
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3
+ Chain 4 / 5785 MHz**



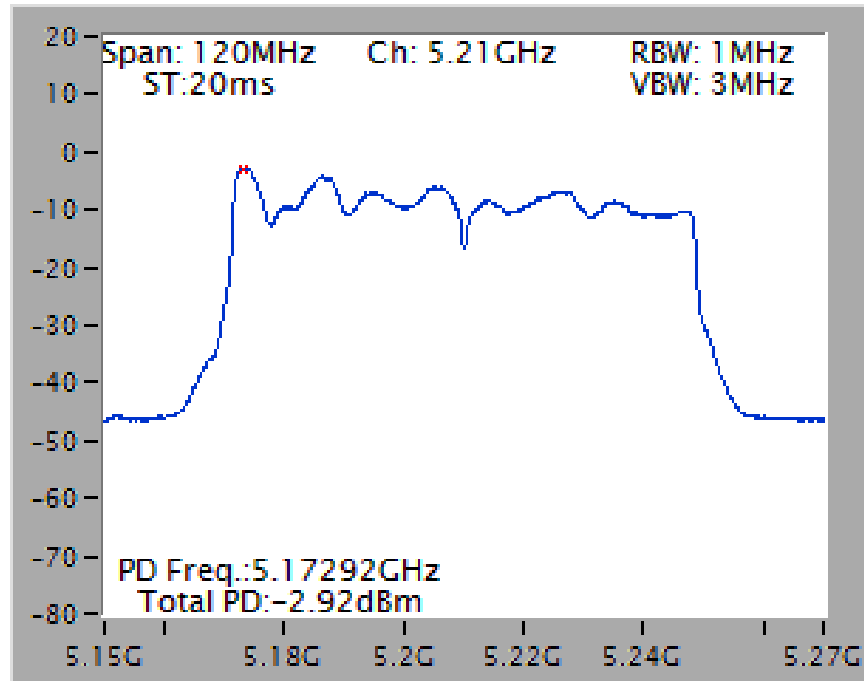
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5230 MHz



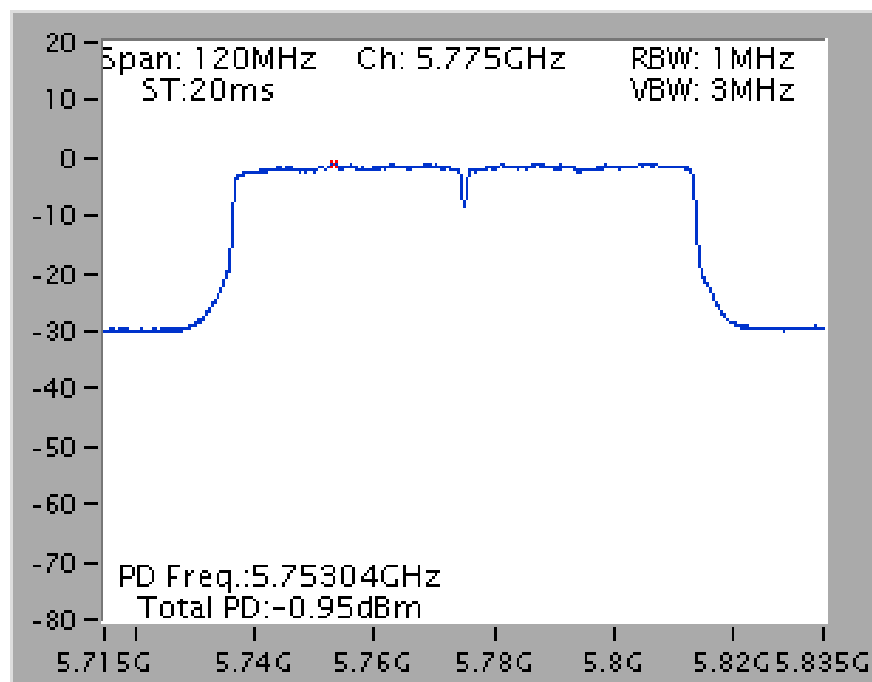
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5795 MHz



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

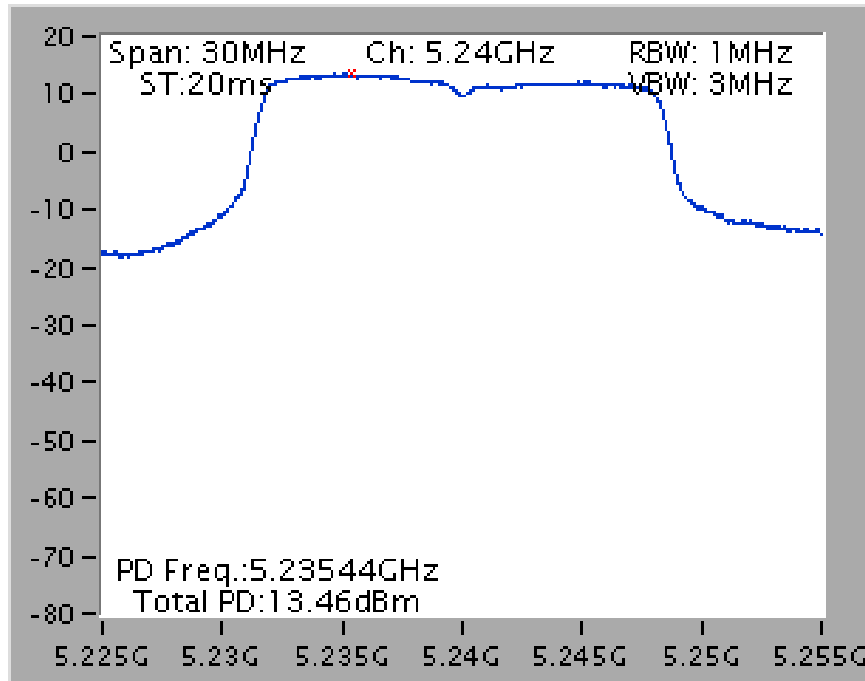


**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3
+ Chain 4 / 5775 MHz**

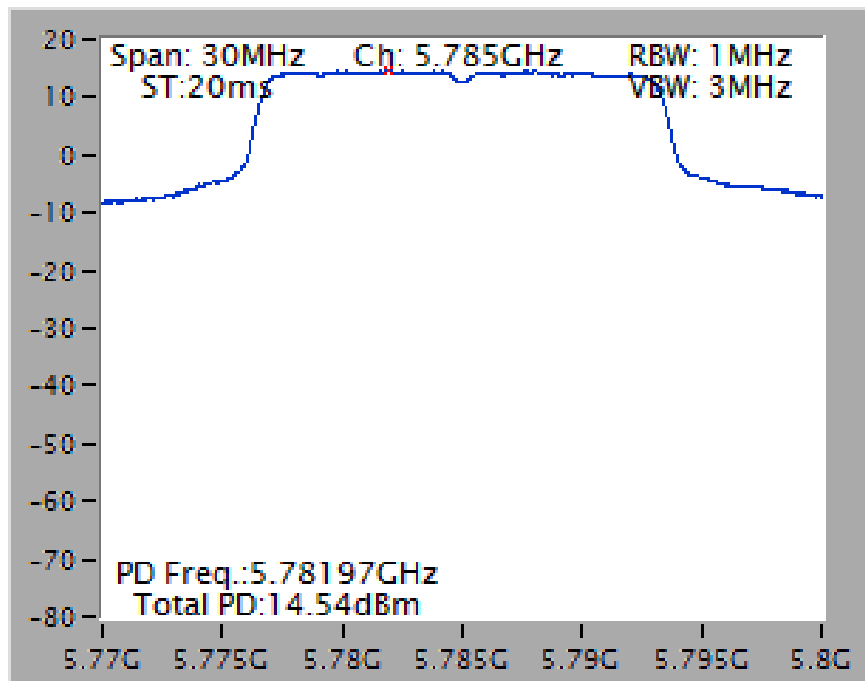


Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi

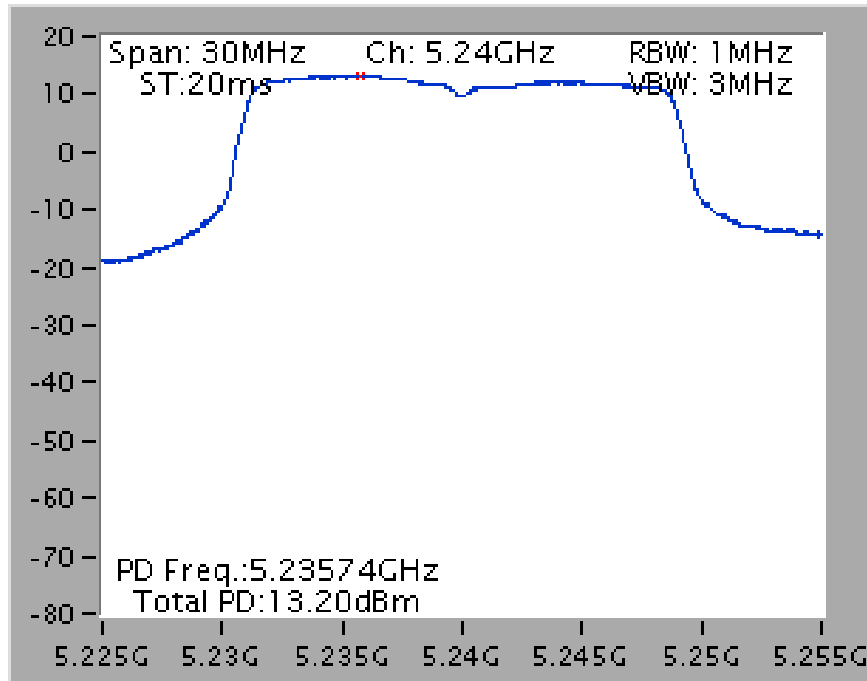
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5240 MHz



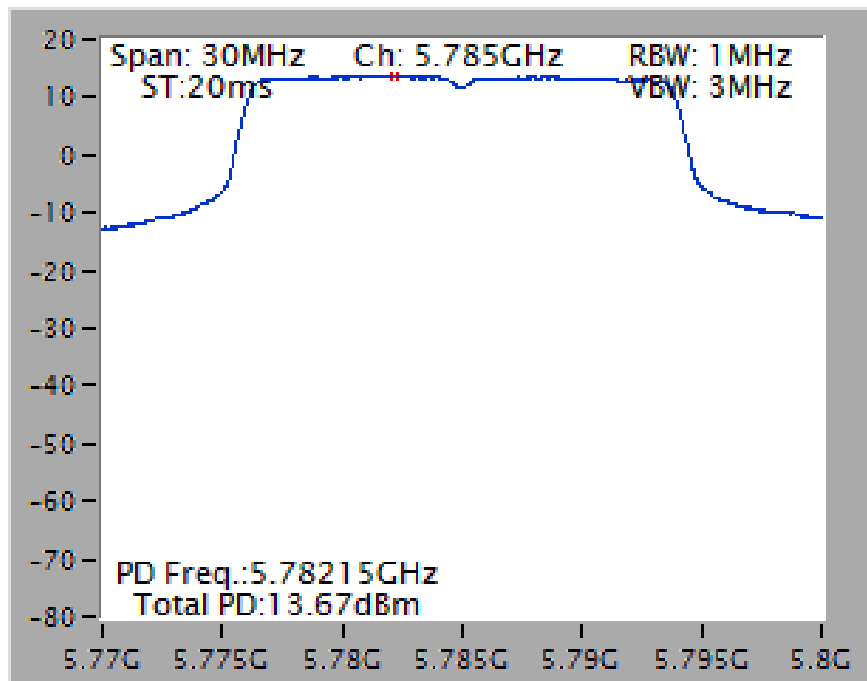
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



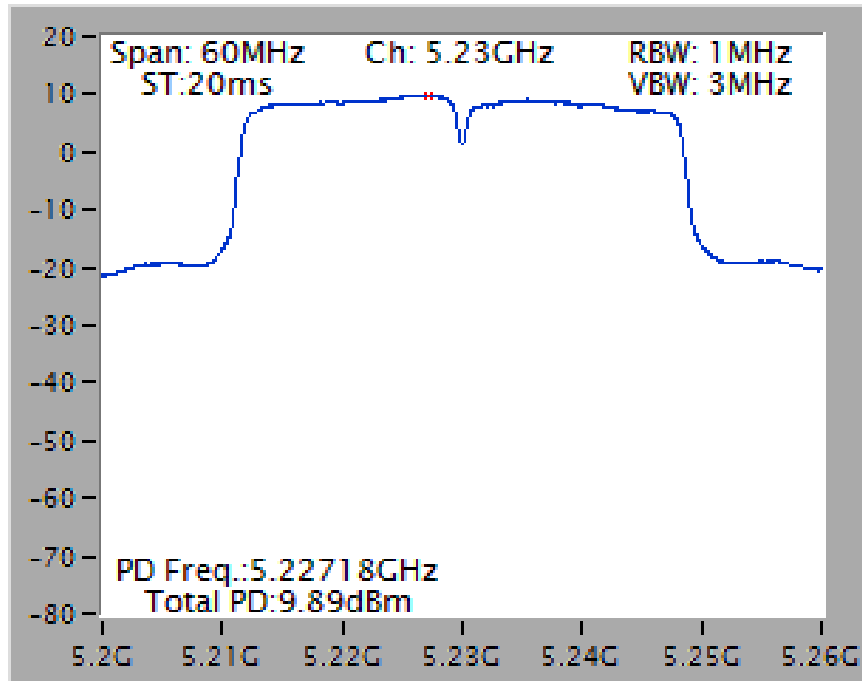
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5240 MHz



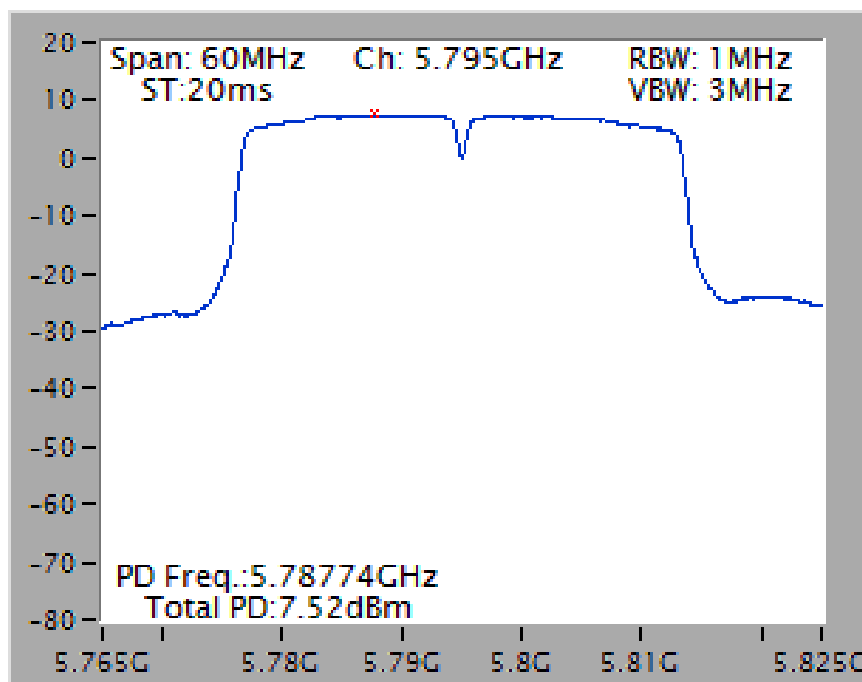
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



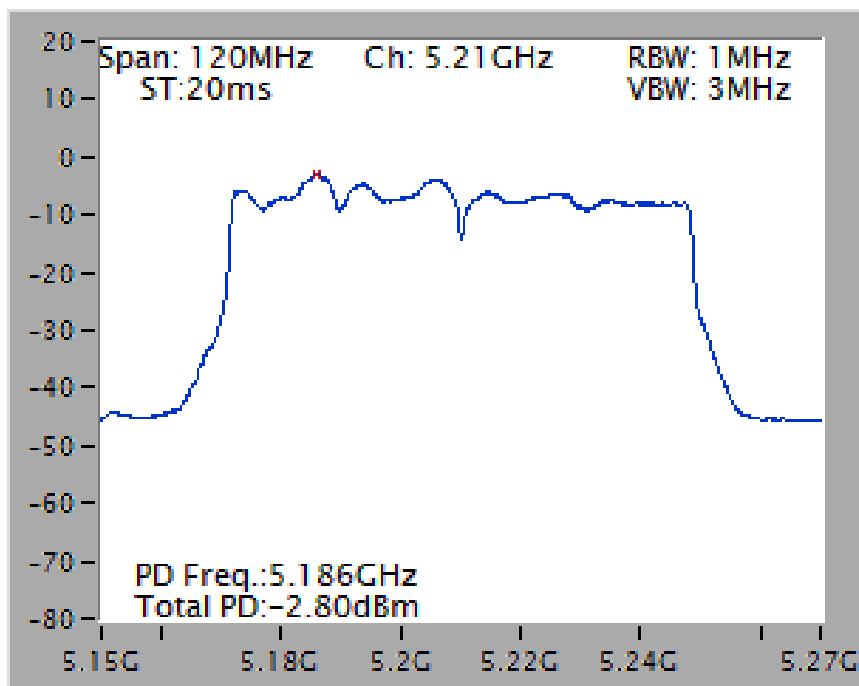
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5230 MHz



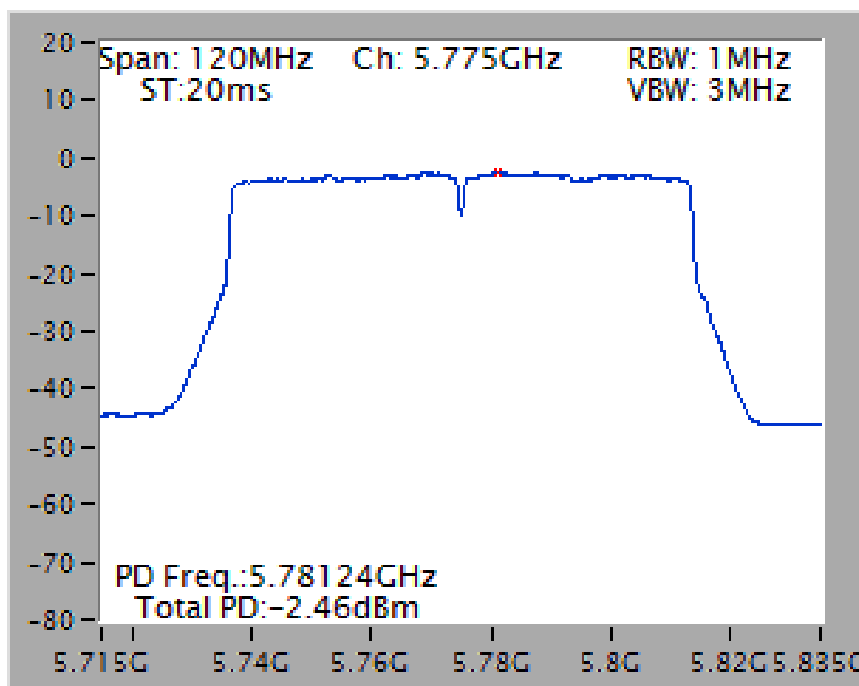
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5795 MHz



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

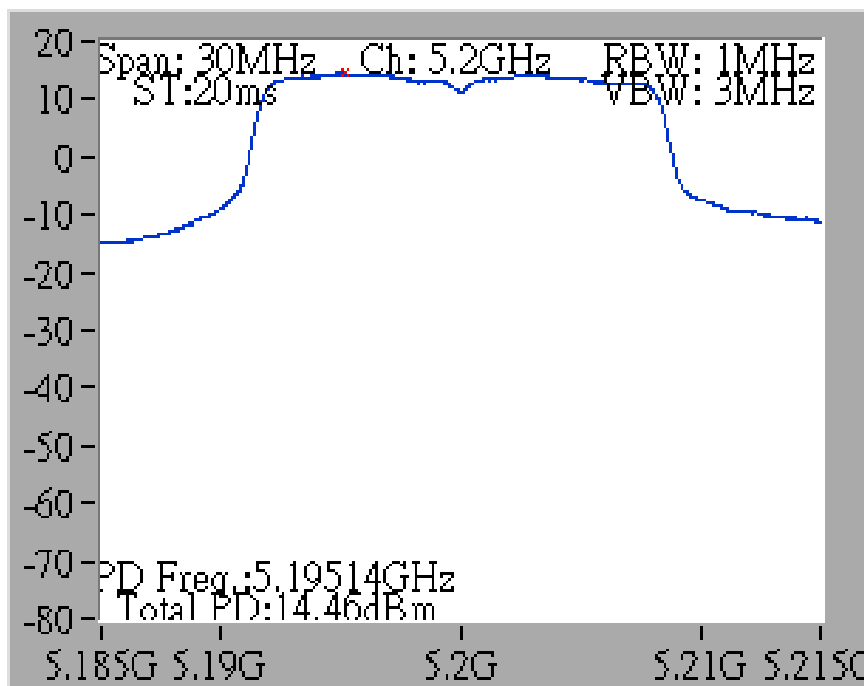


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz

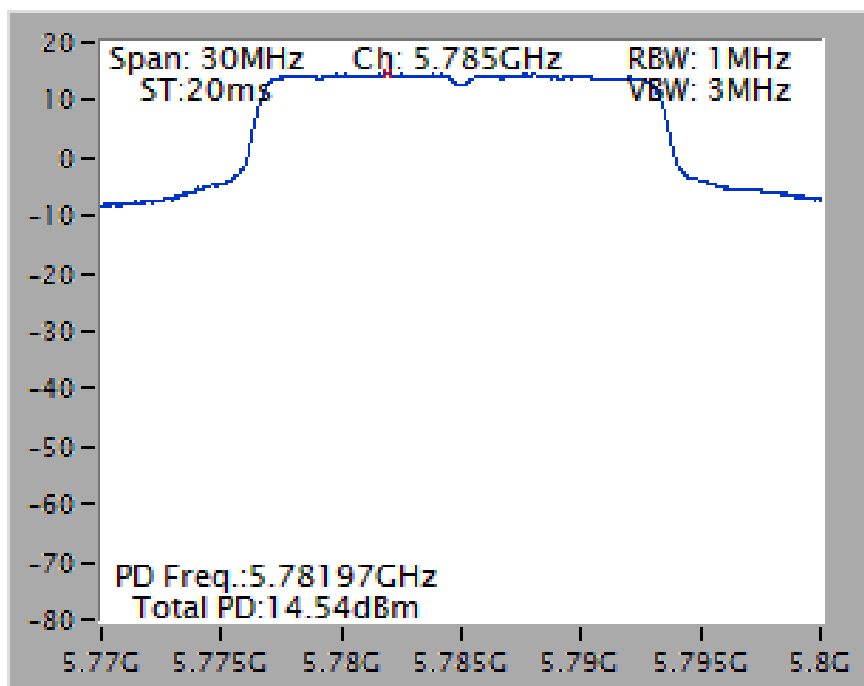


Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi

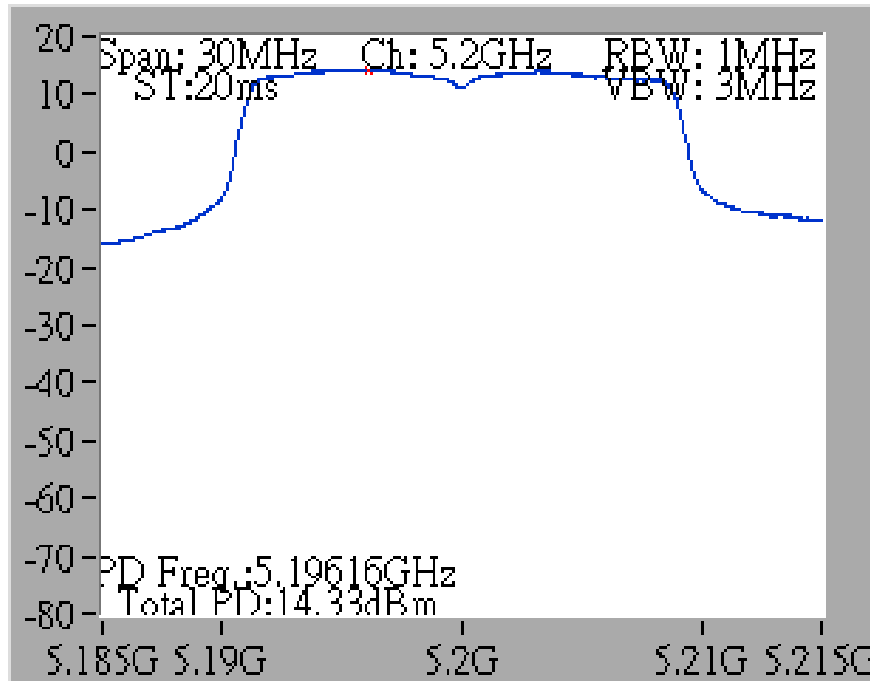
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5200 MHz



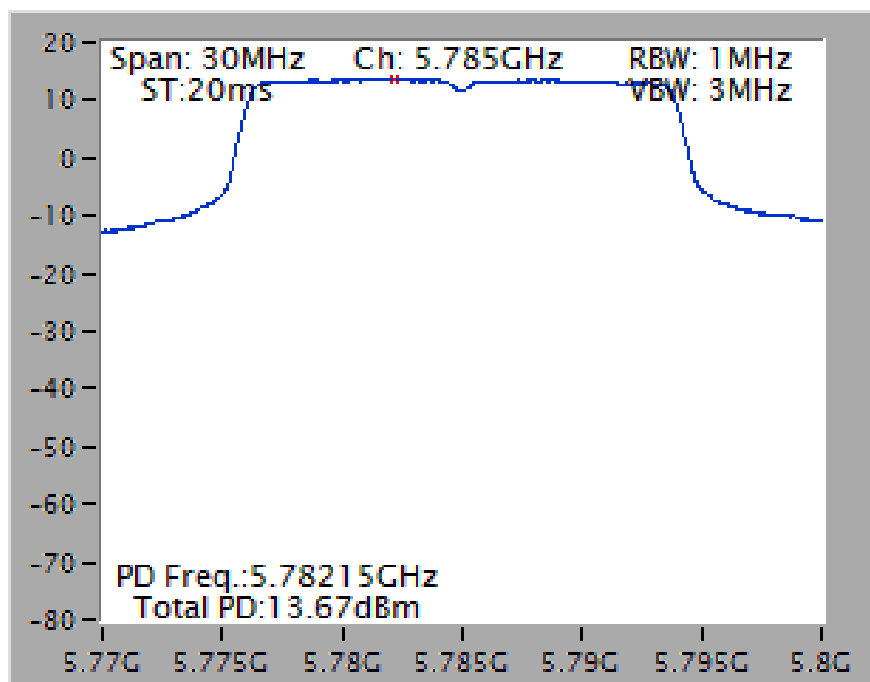
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



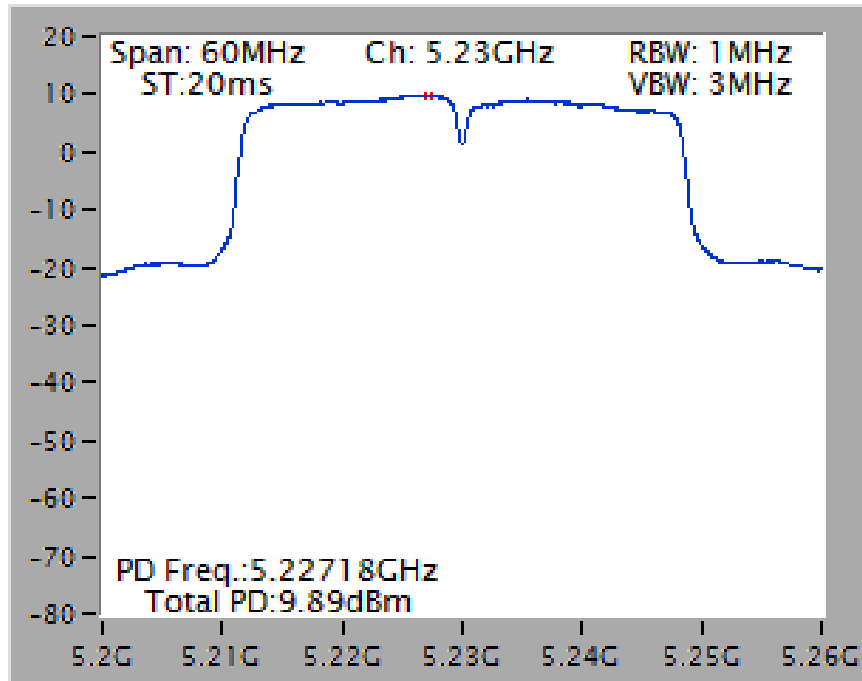
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5200 MHz



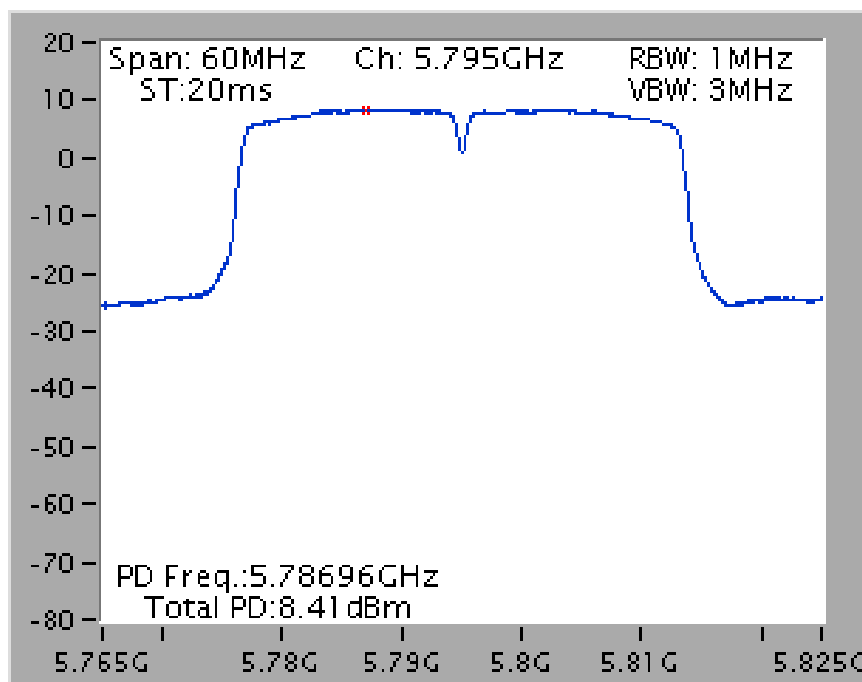
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



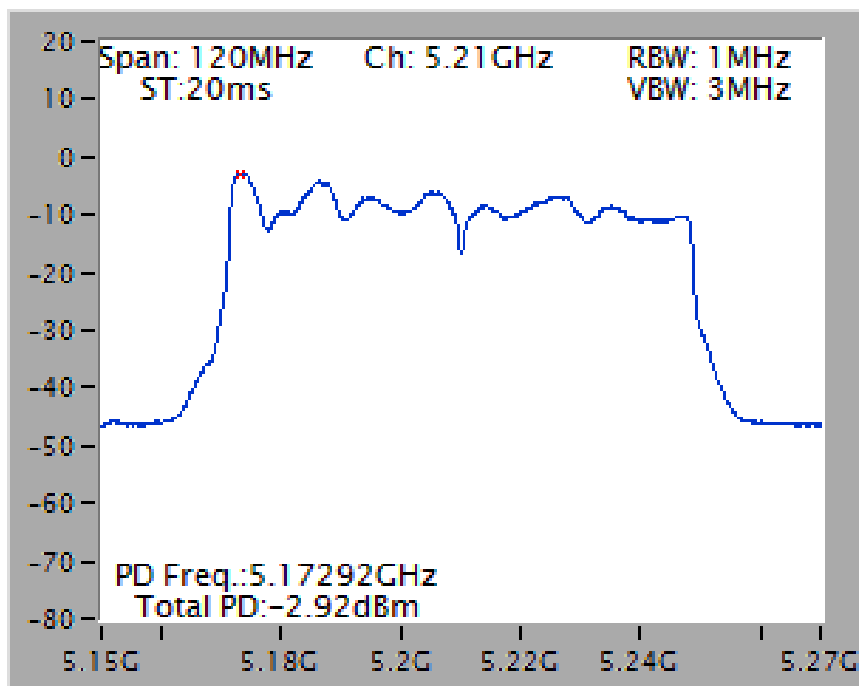
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5230 MHz



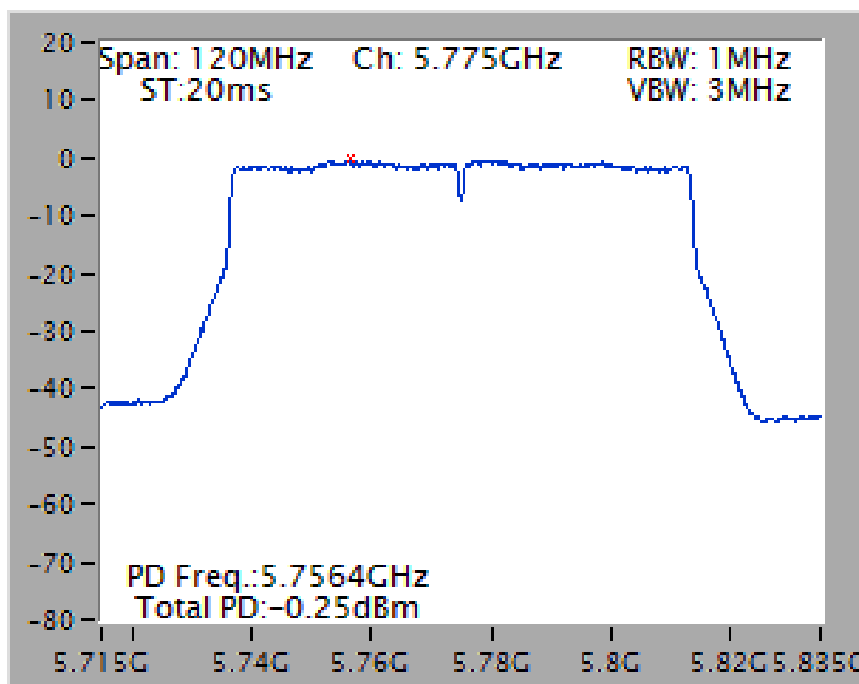
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5795 MHz



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

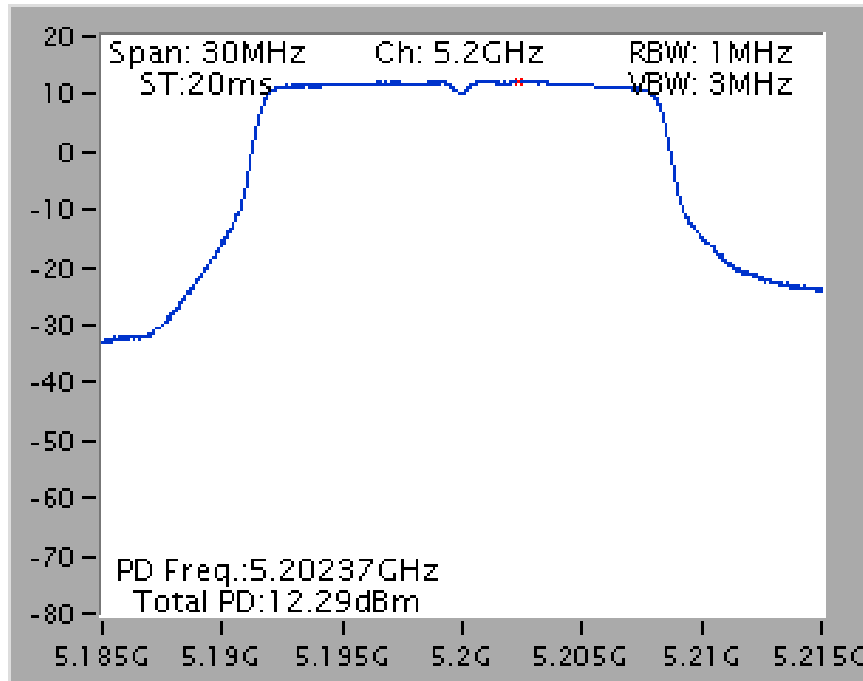


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz

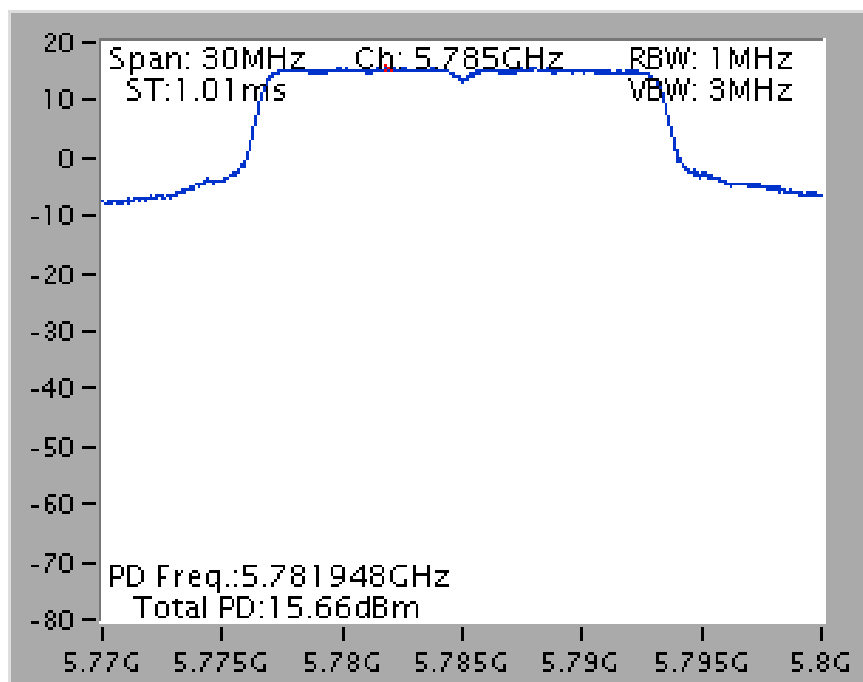


Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi

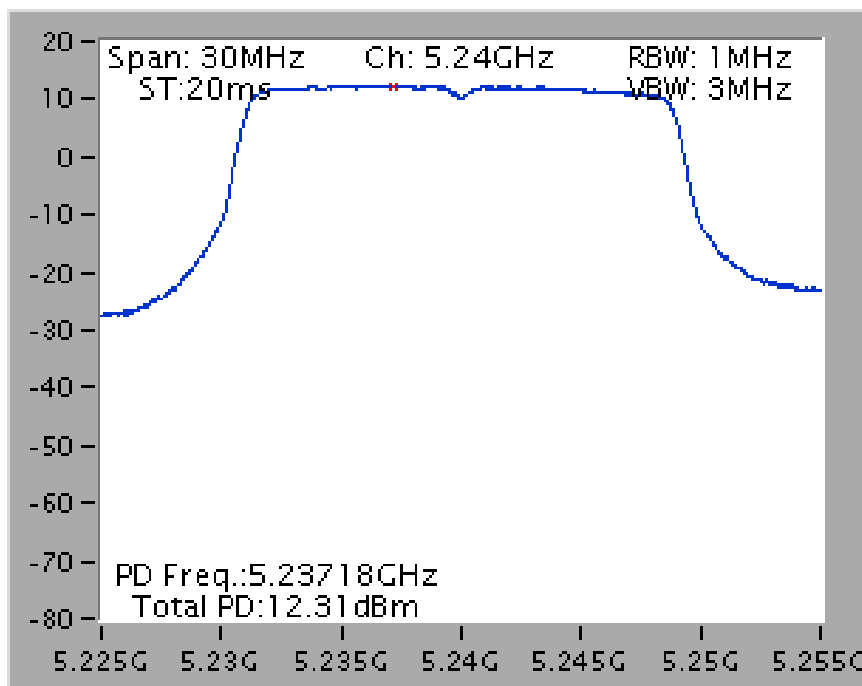
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5200 MHz



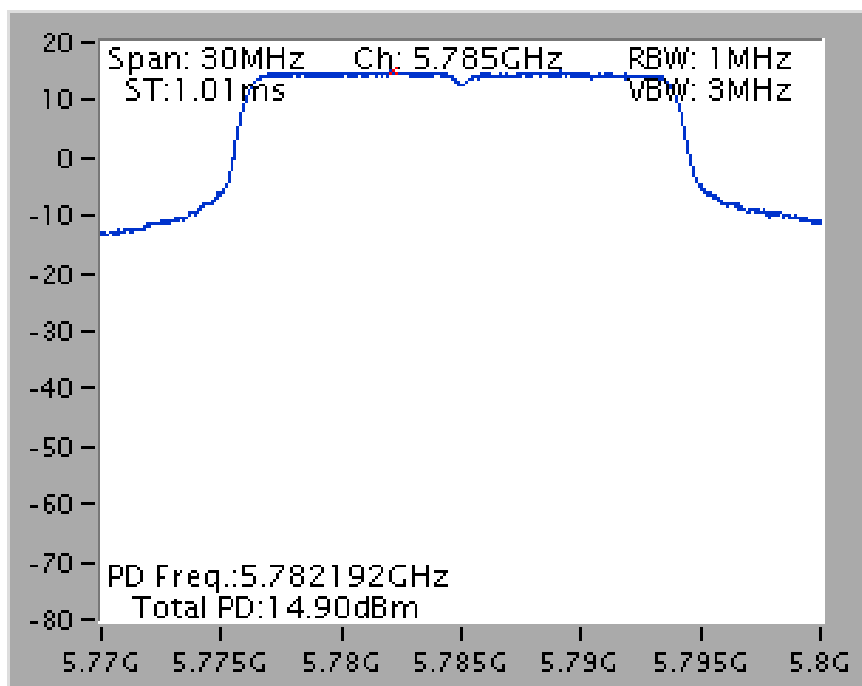
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



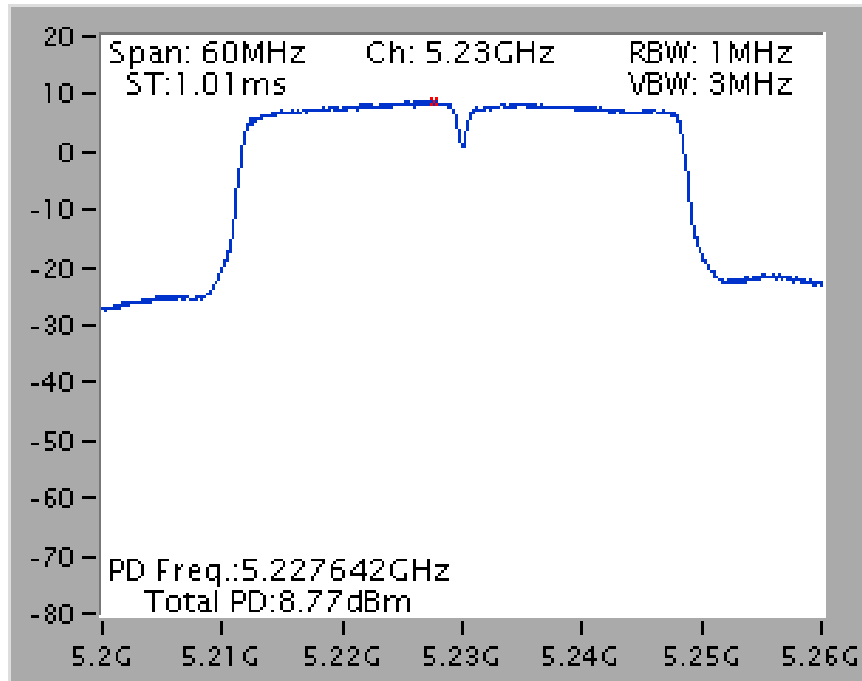
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5240 MHz



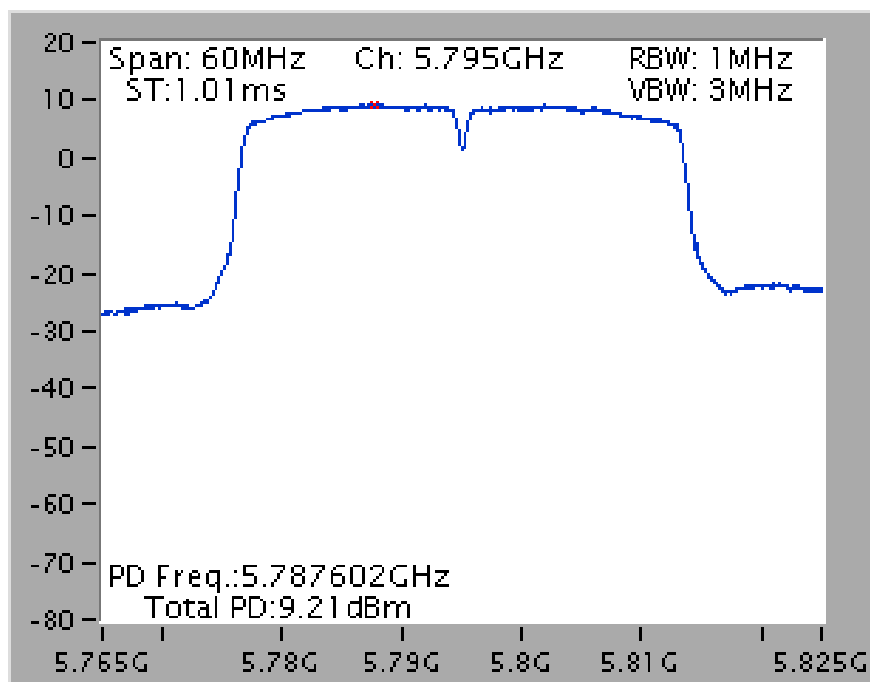
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



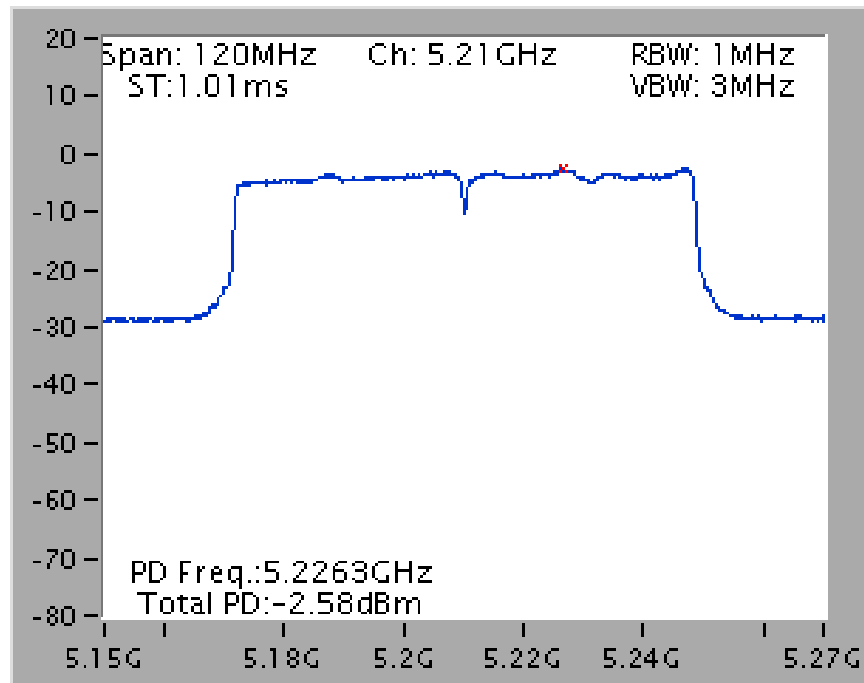
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5230 MHz



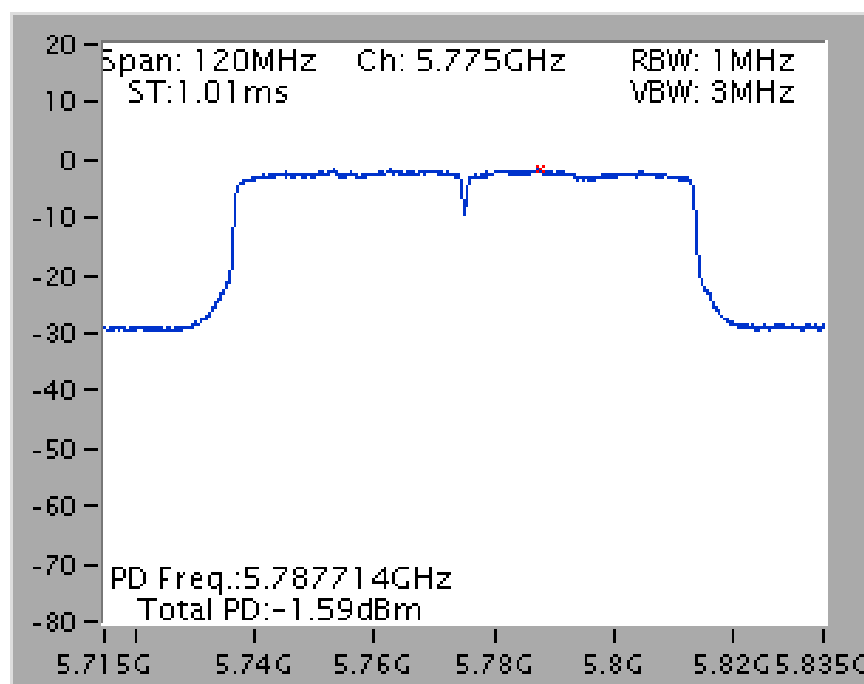
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5795 MHz

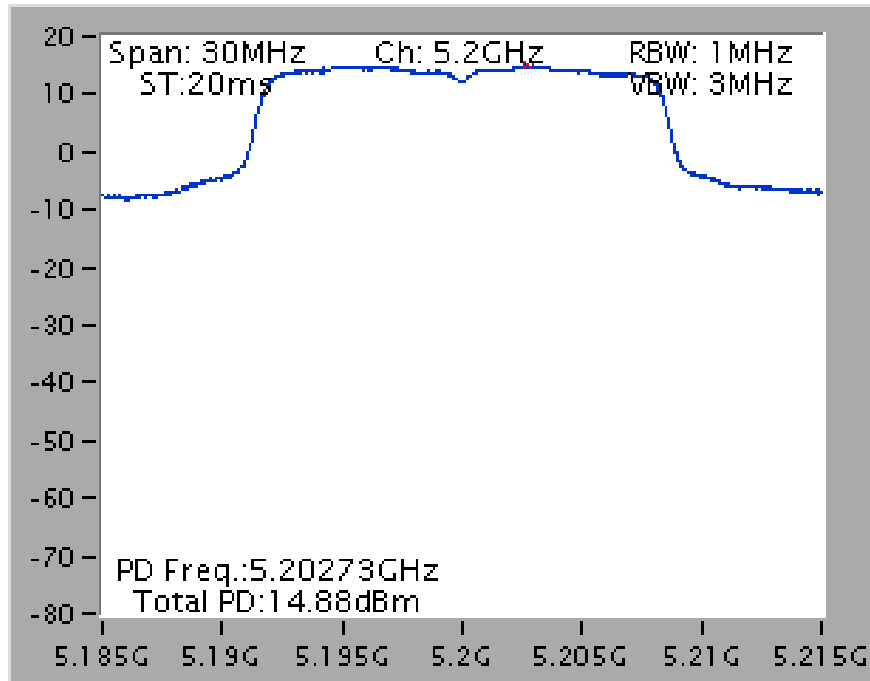
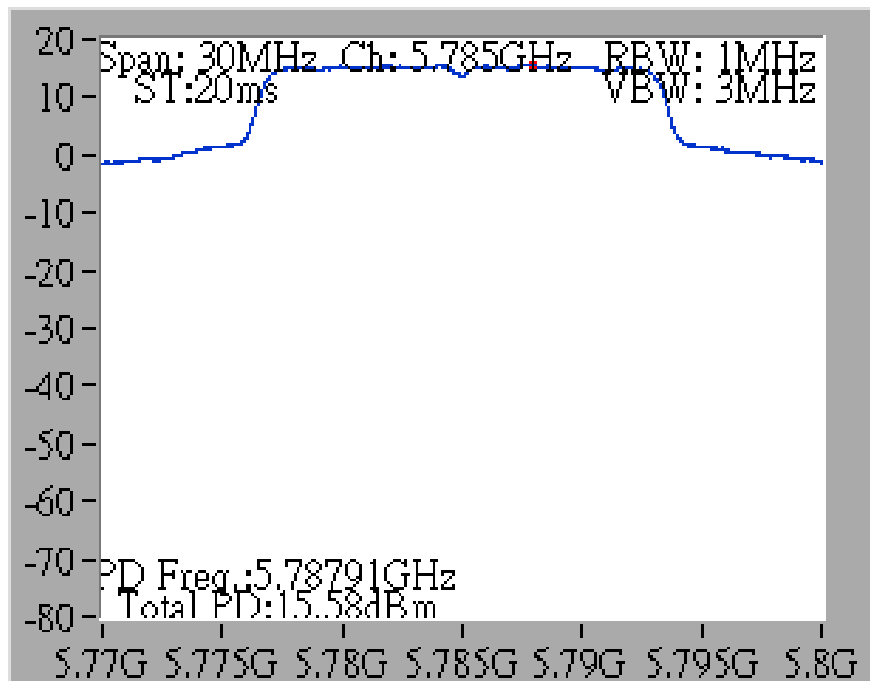


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5210 MHz

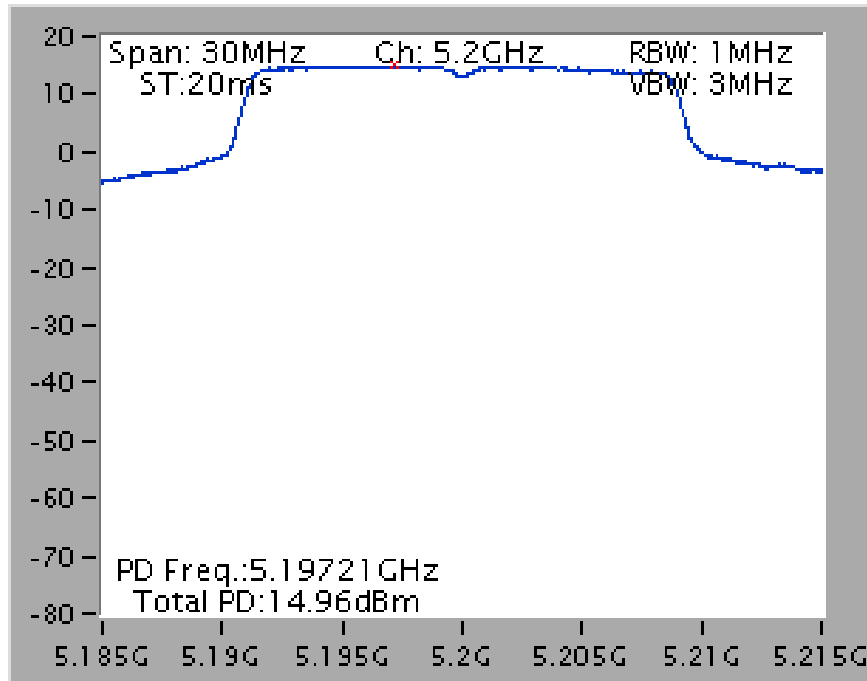


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz

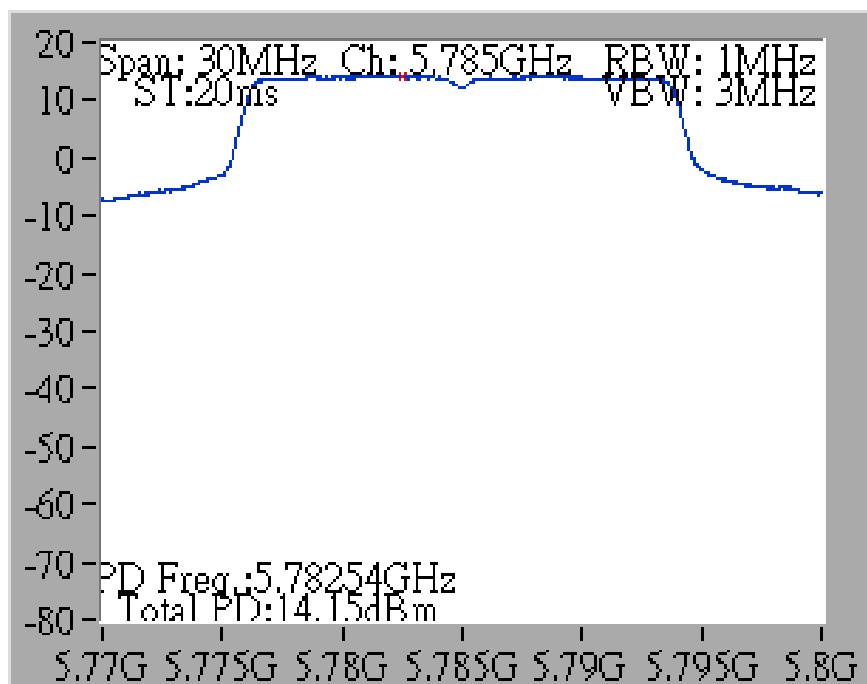


Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi**Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5200 MHz****Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz**

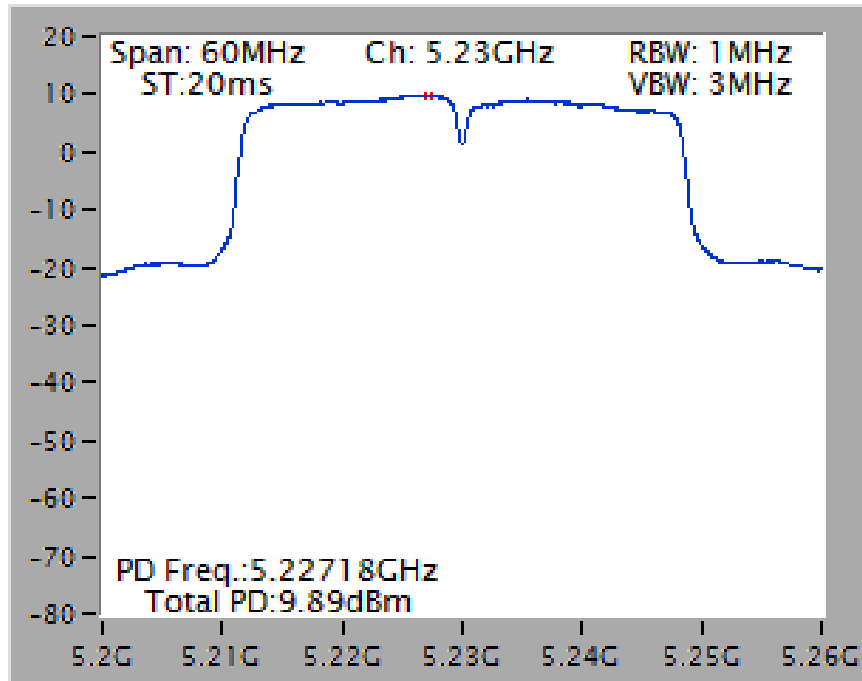
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5200 MHz



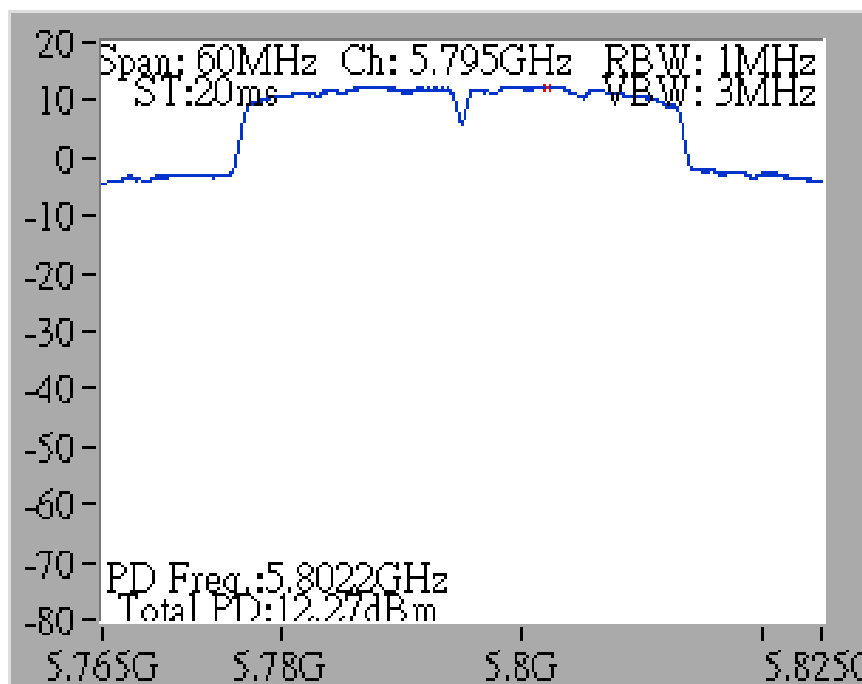
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



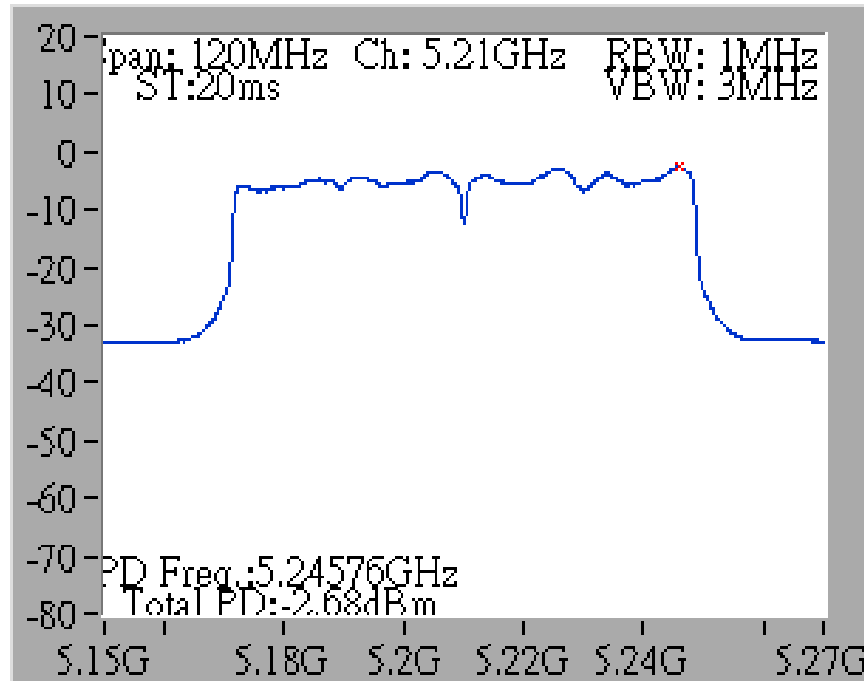
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5230 MHz



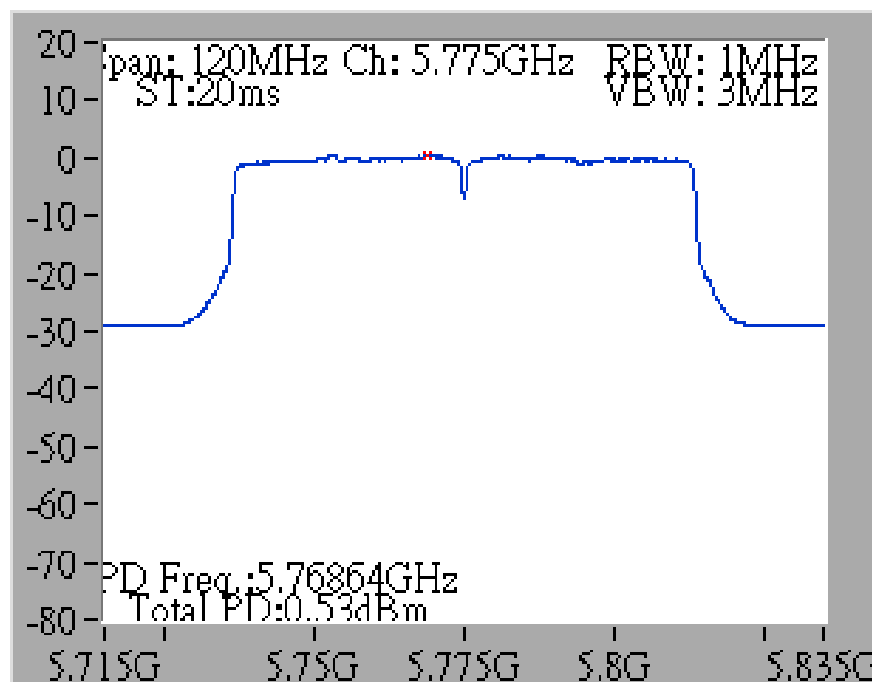
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5795 MHz



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

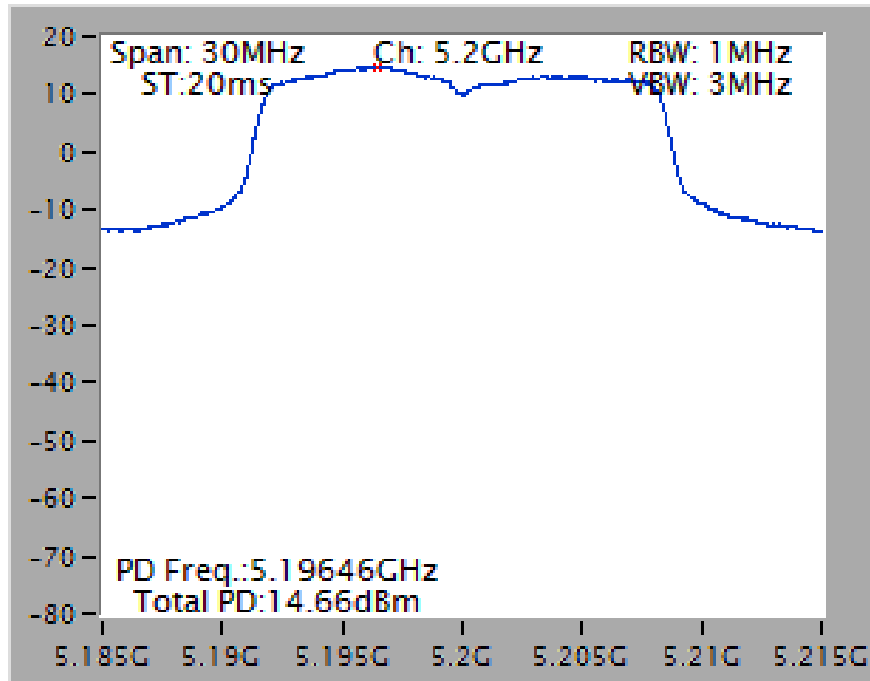


**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3
+ Chain 4 / 5775 MHz**

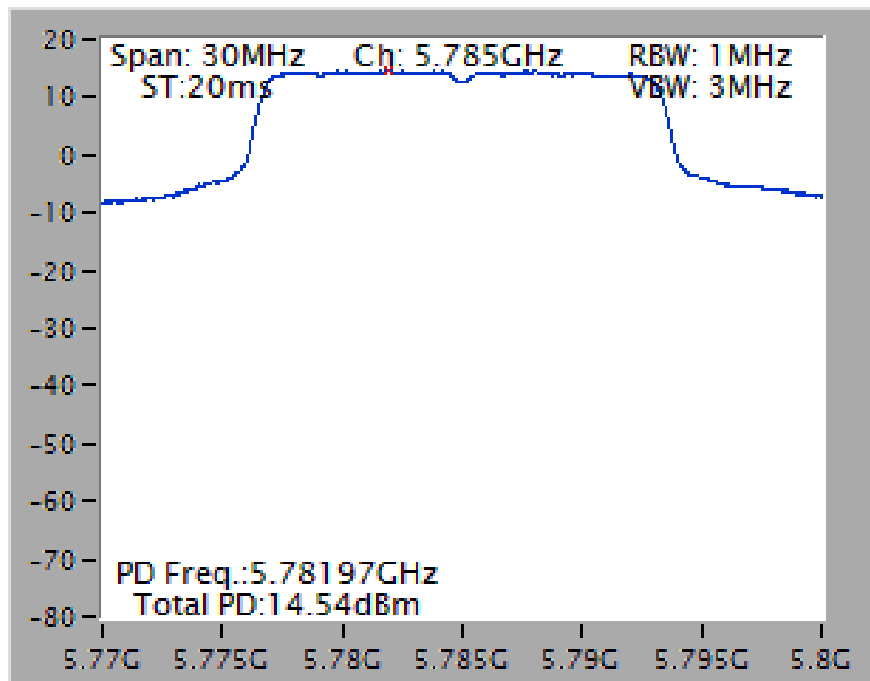


Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi

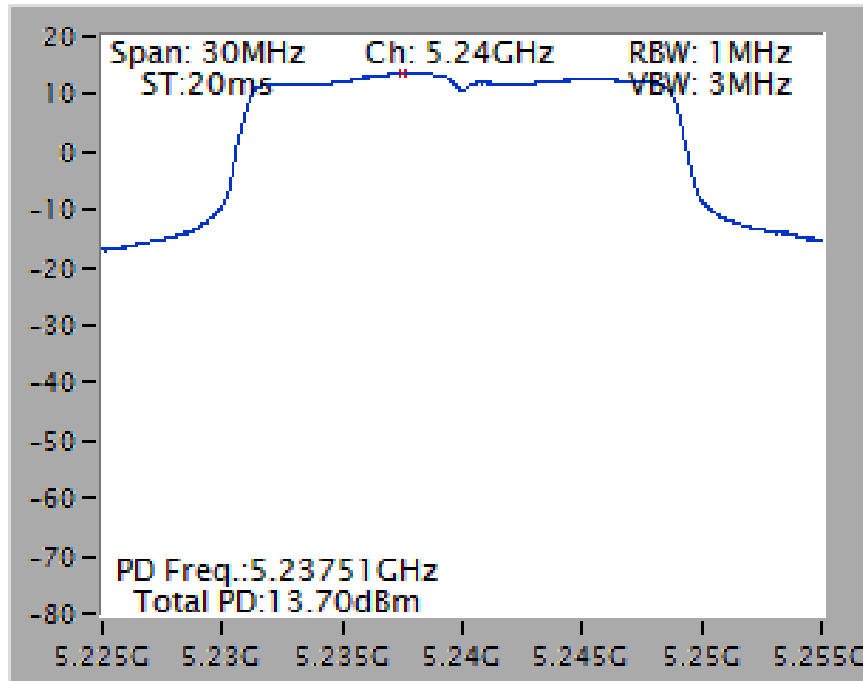
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5200 MHz



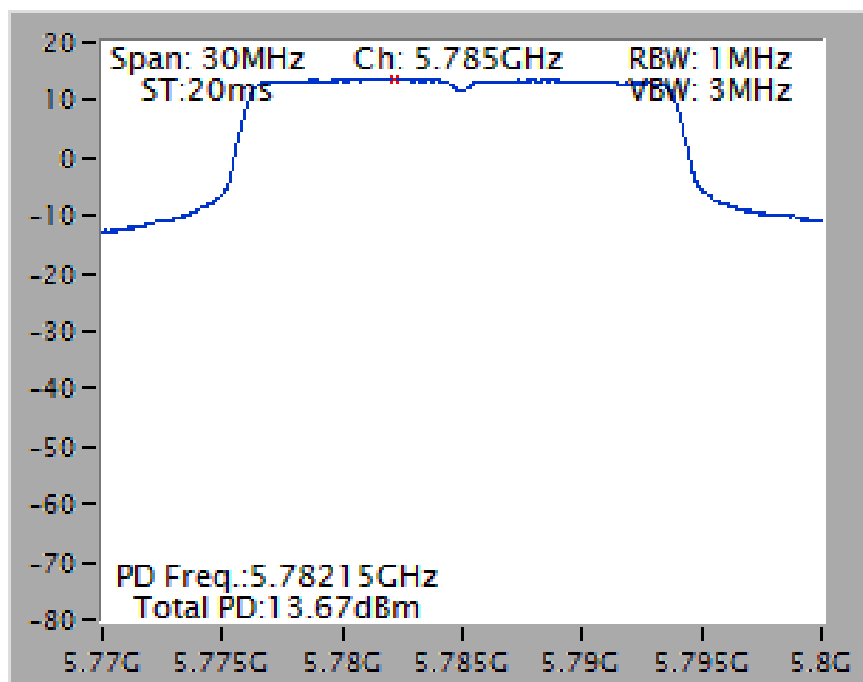
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



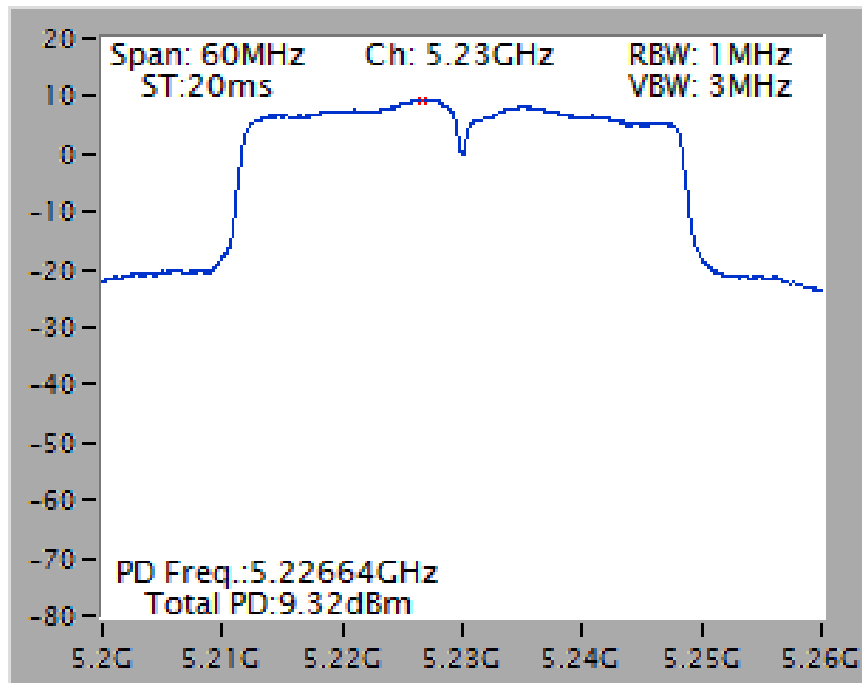
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5240 MHz



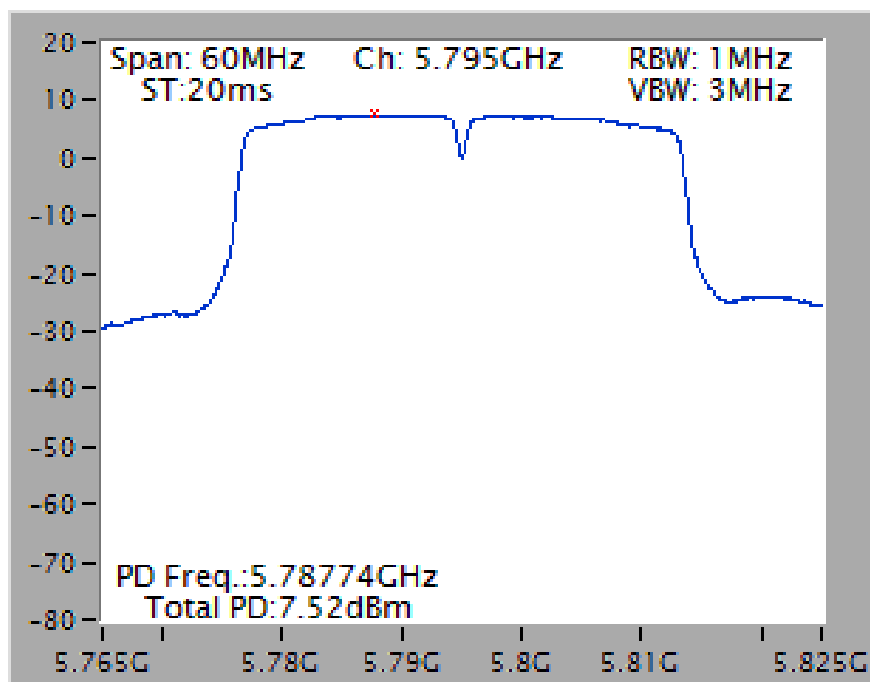
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



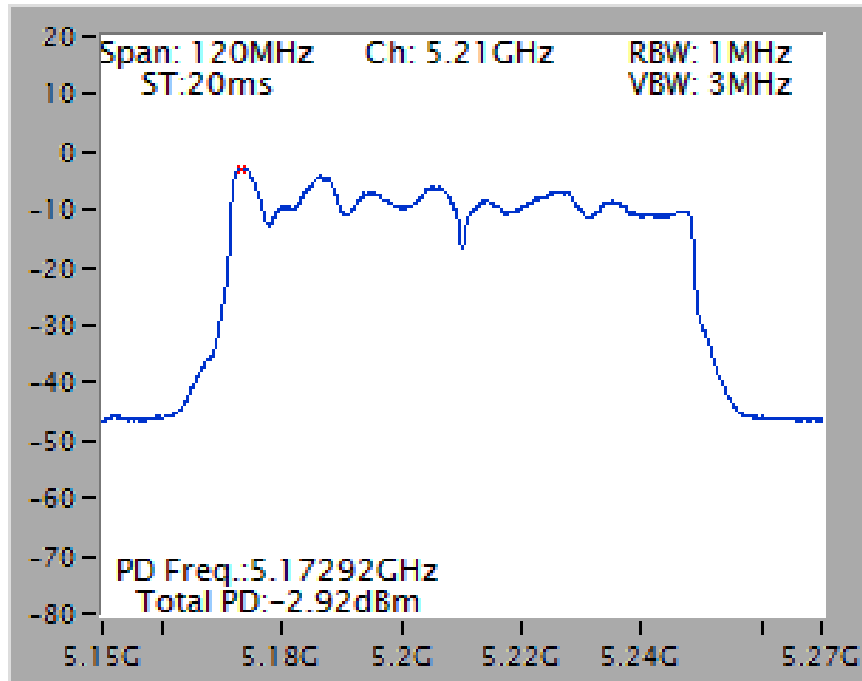
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5230 MHz



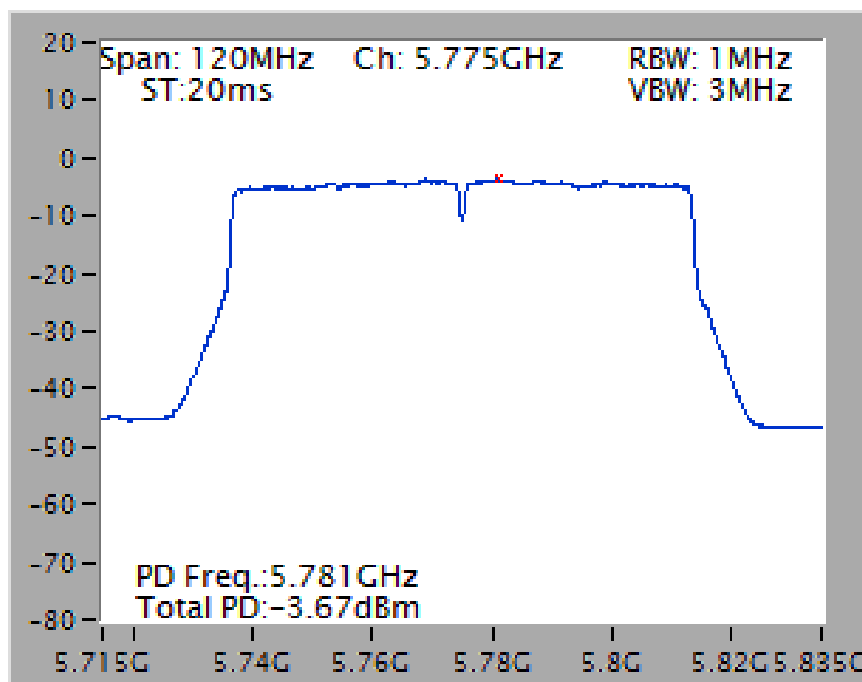
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5795 MHz



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

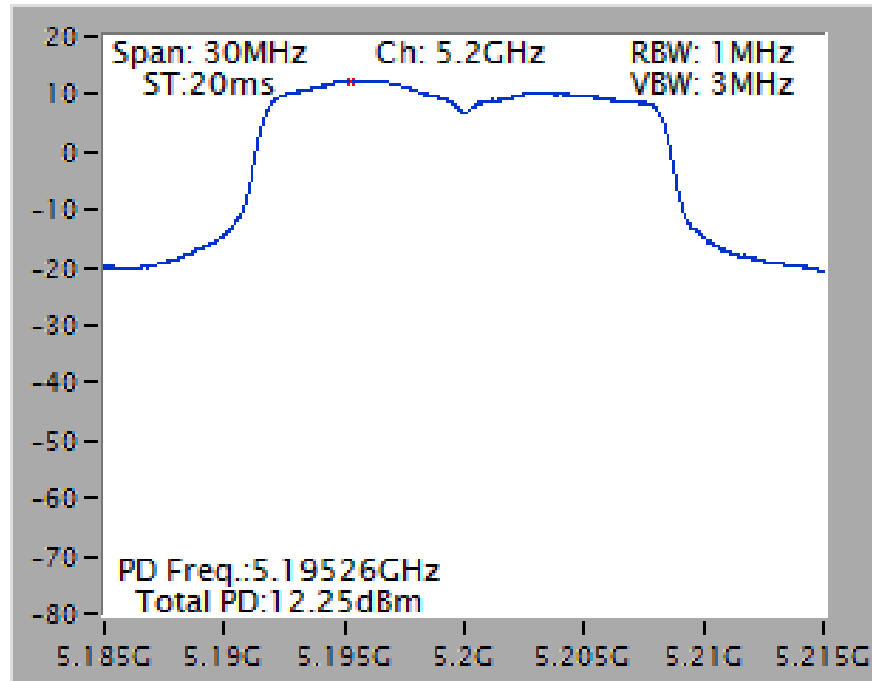


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz

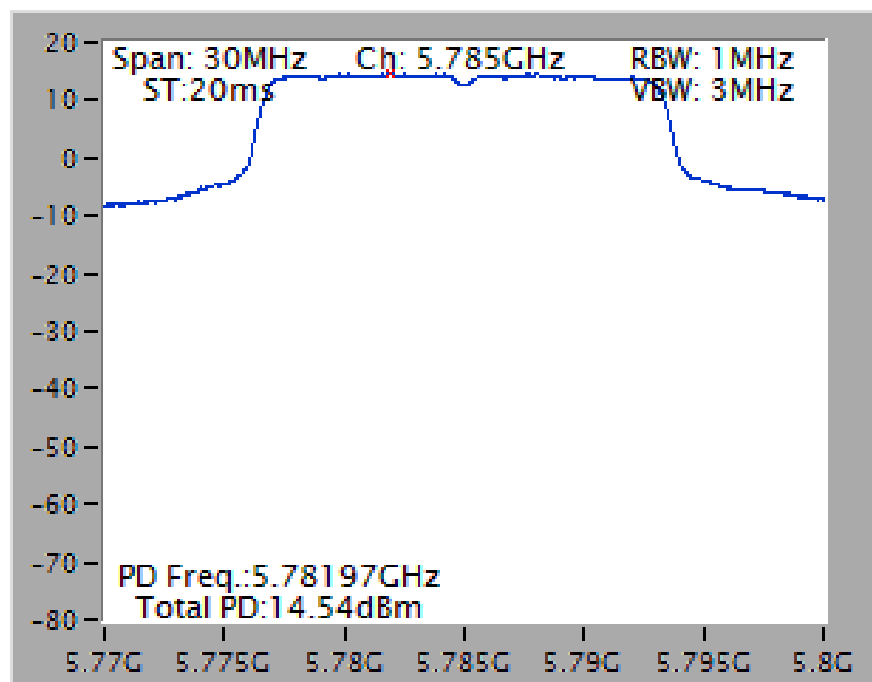


Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi

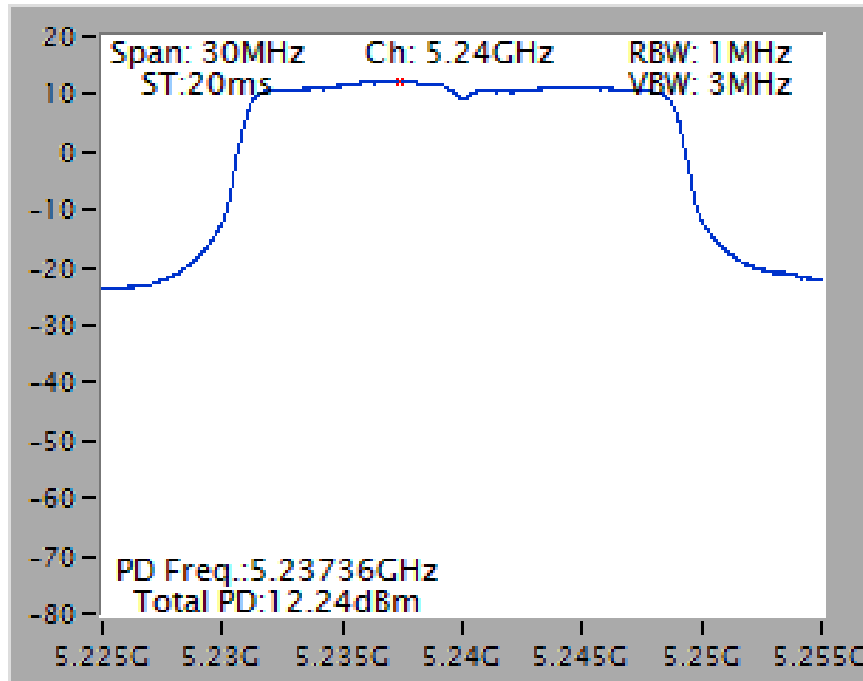
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5200 MHz



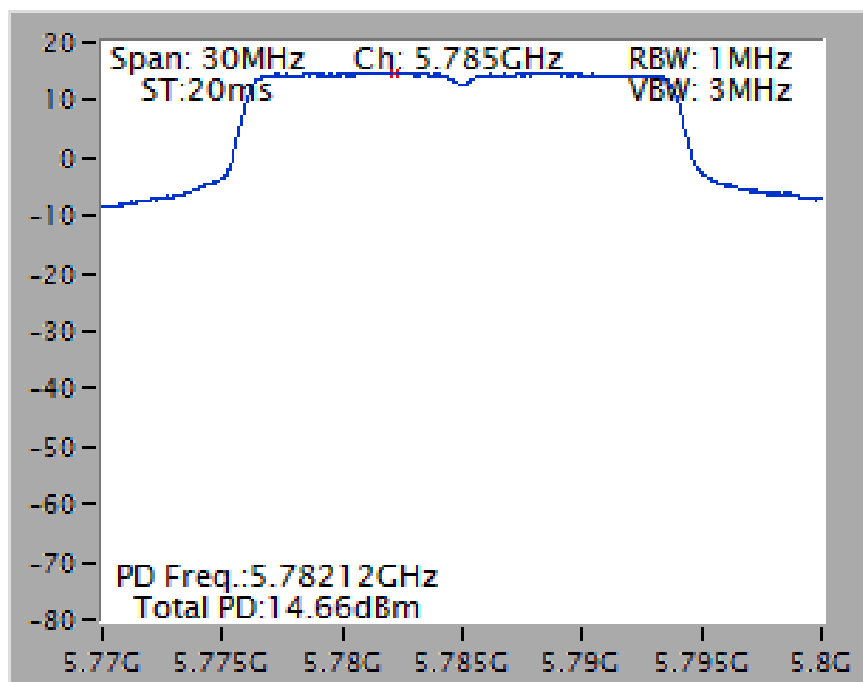
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



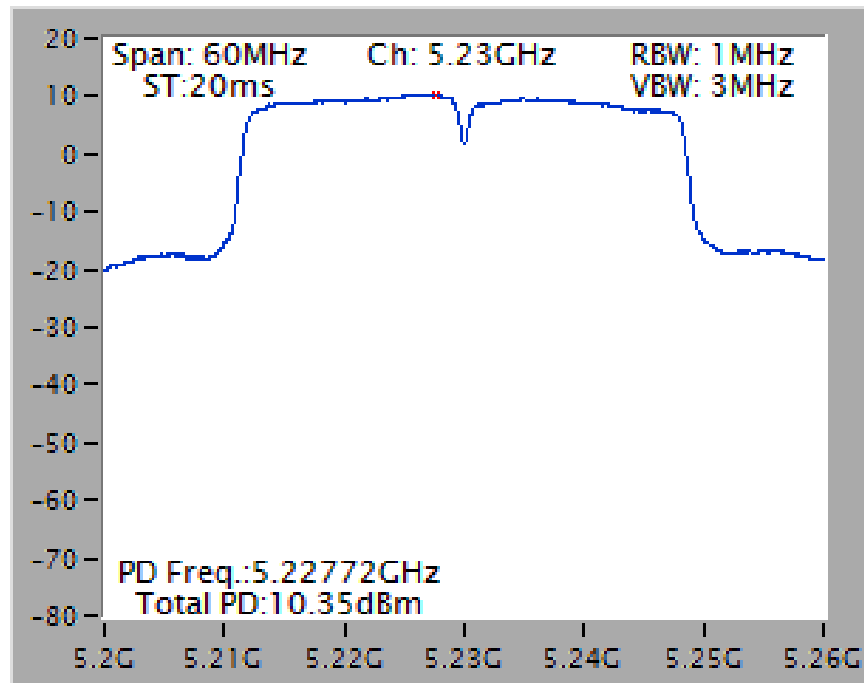
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5240 MHz



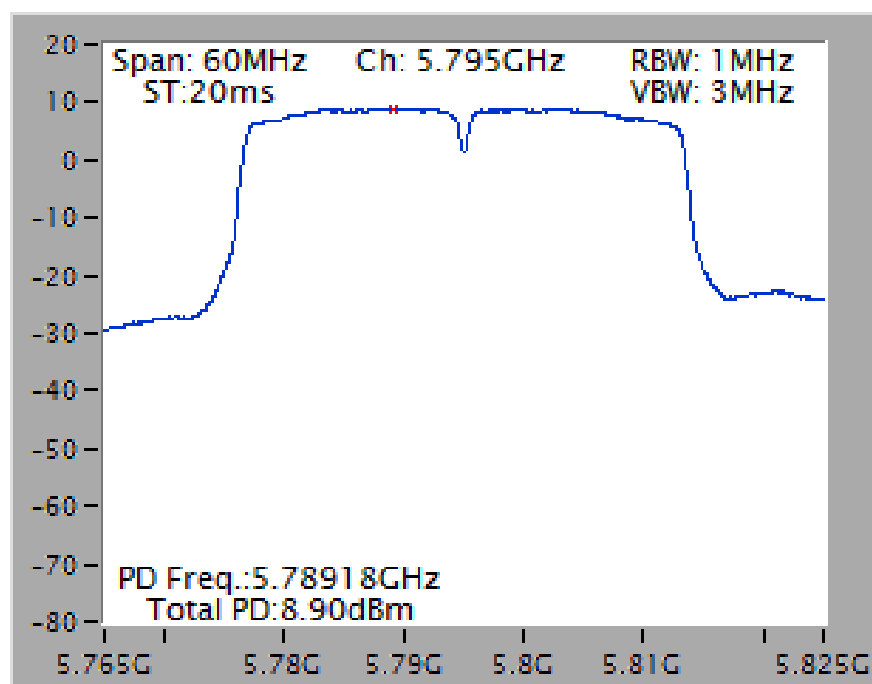
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



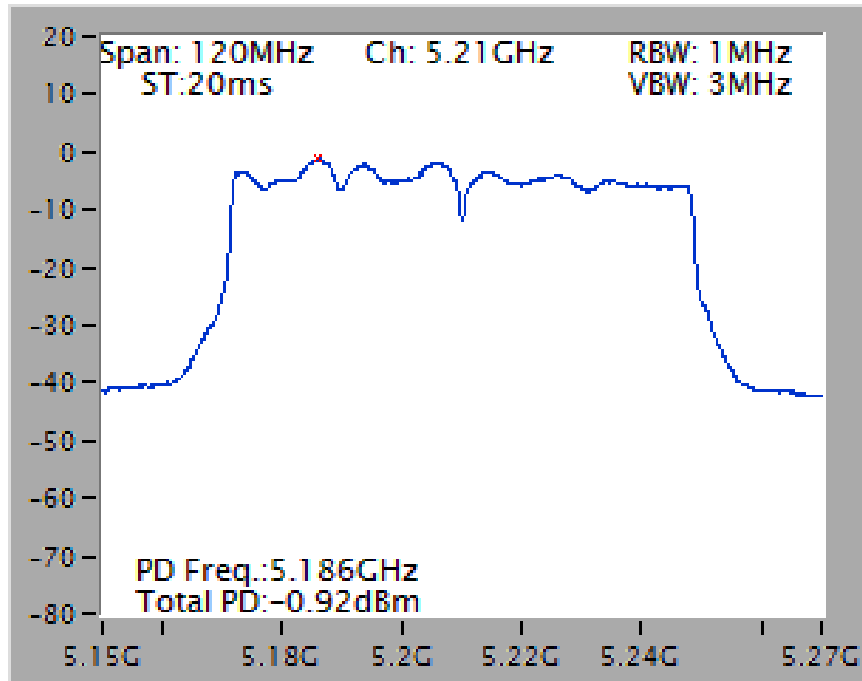
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5230 MHz



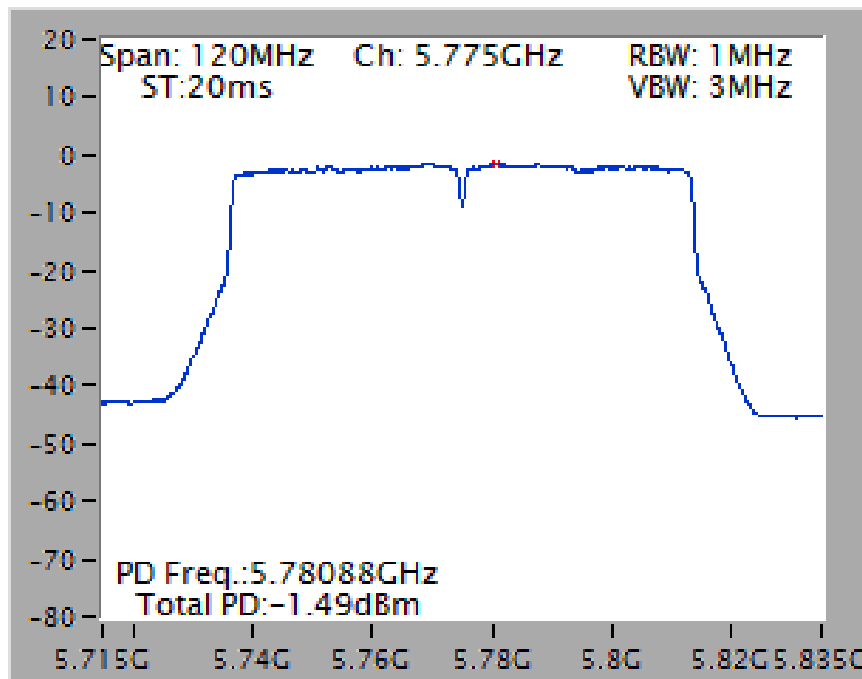
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5795 MHz



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

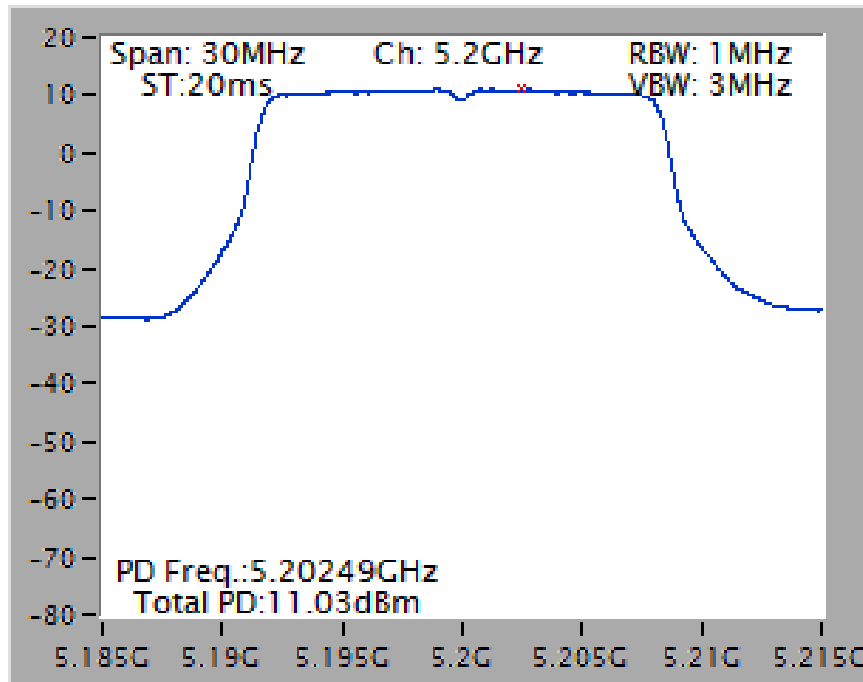


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz

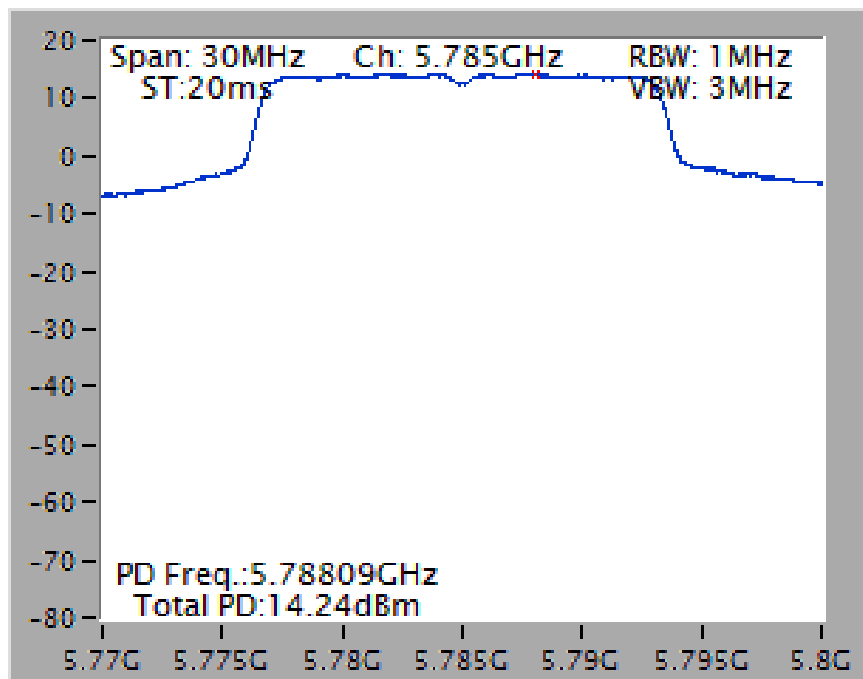


Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi

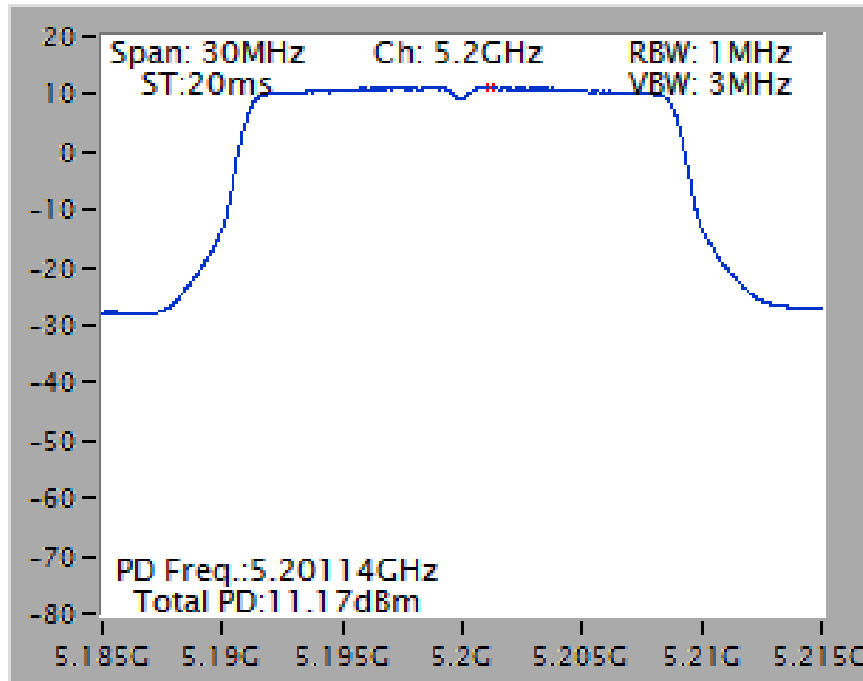
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5200 MHz



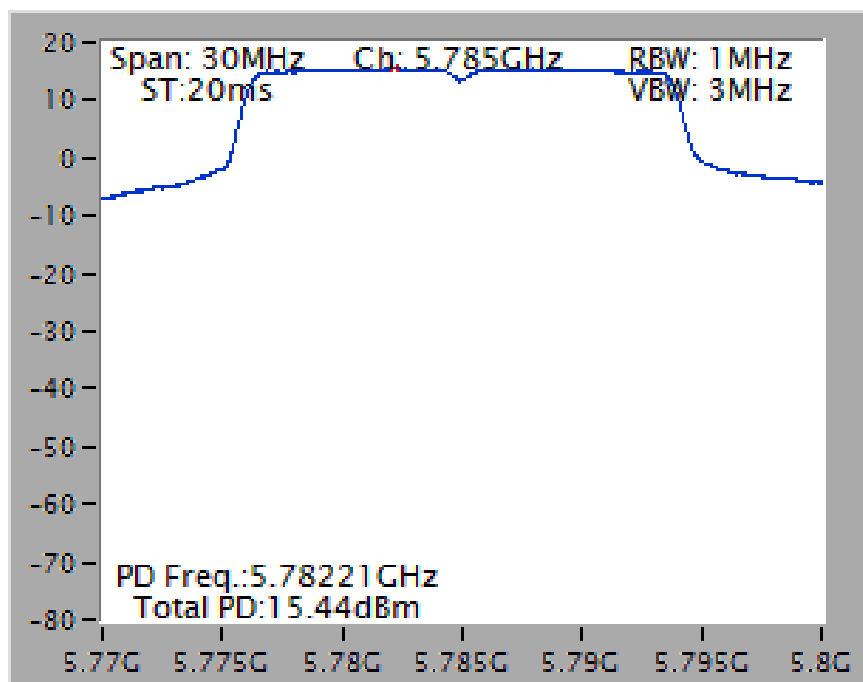
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



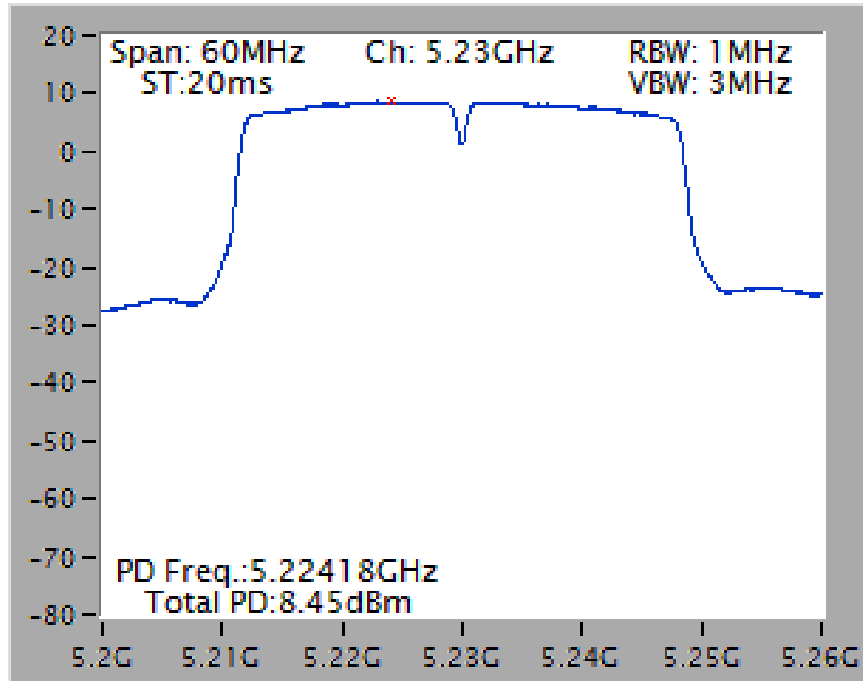
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5200 MHz



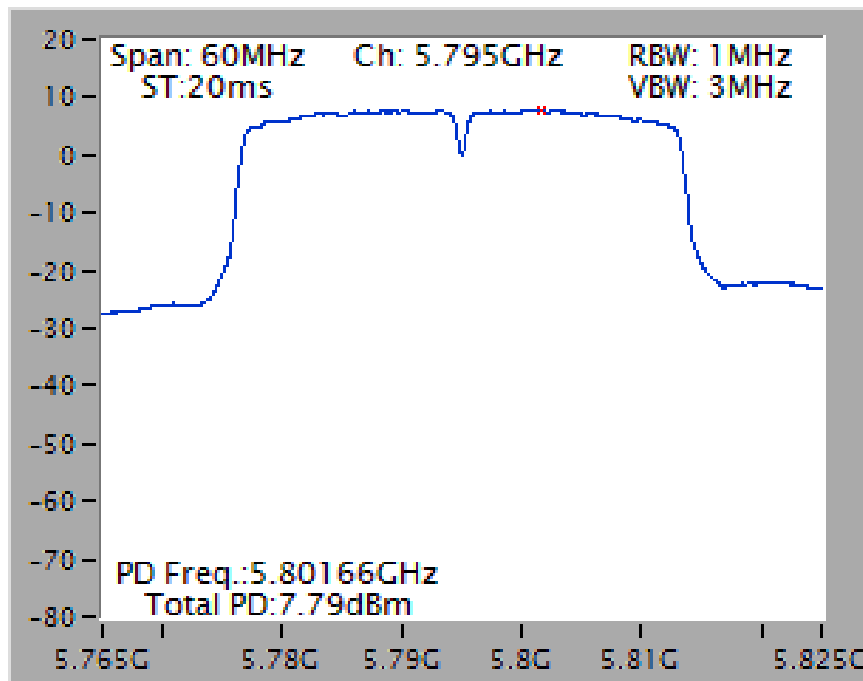
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5785 MHz



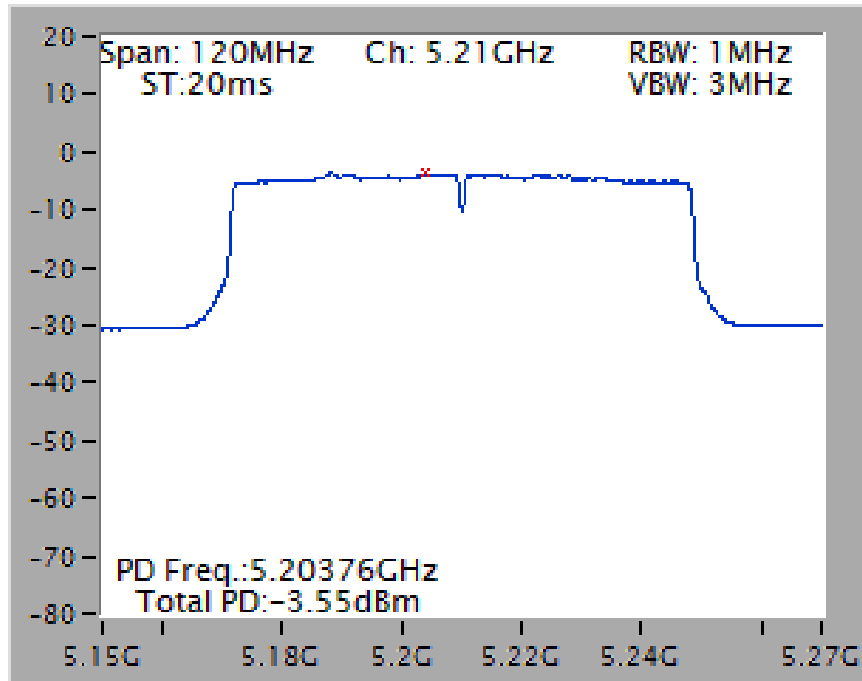
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5230 MHz



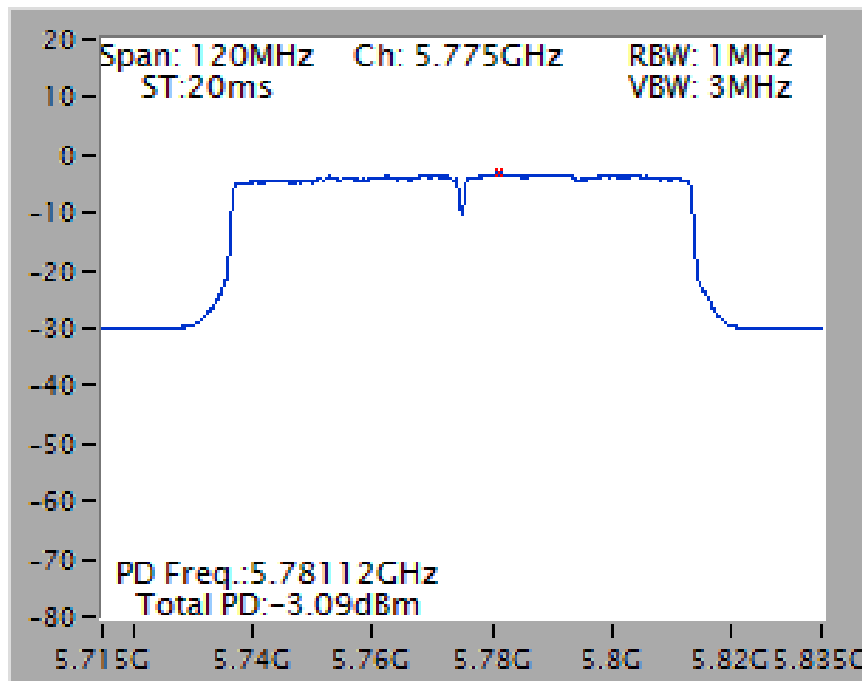
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5795 MHz



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 within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

In addition, In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) 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)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average
RBW / VBW (Emission in non-restricted band)	1MHz / 3MHz for peak

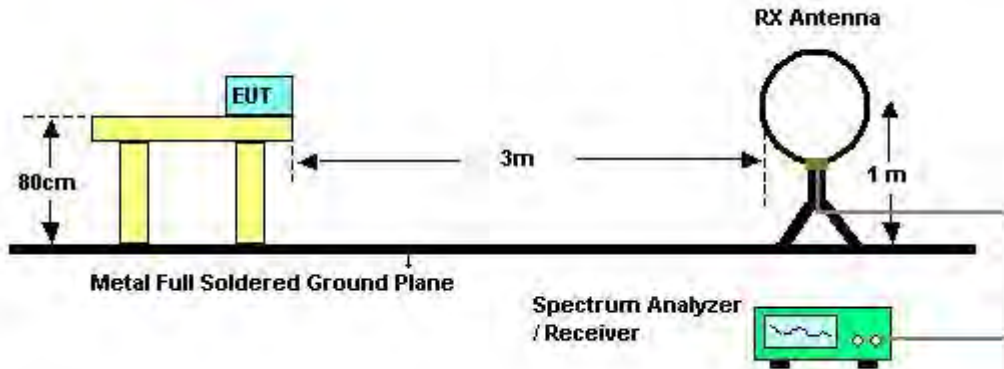
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RBW 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RBW 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RBW 120kHz for QP

4.6.3. Test Procedures

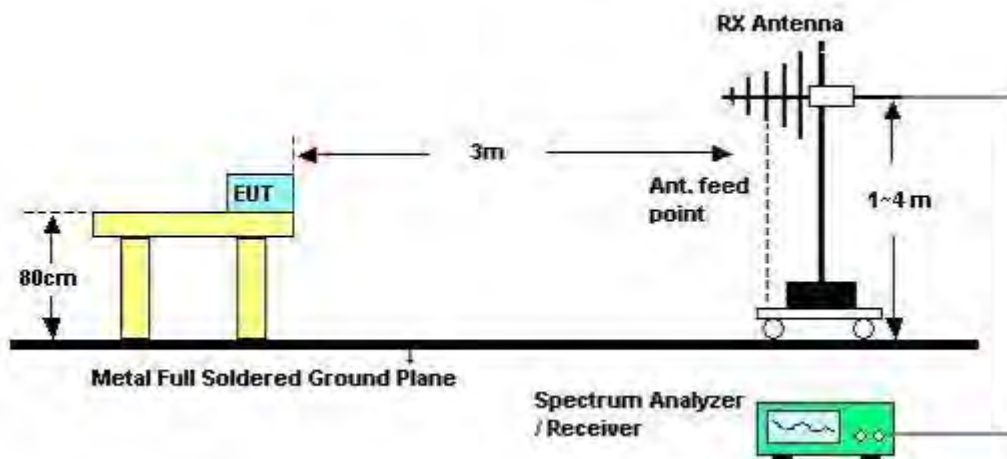
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 1m & 3m far away from the turntable.
2. Power on the EUT and all the supporting 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

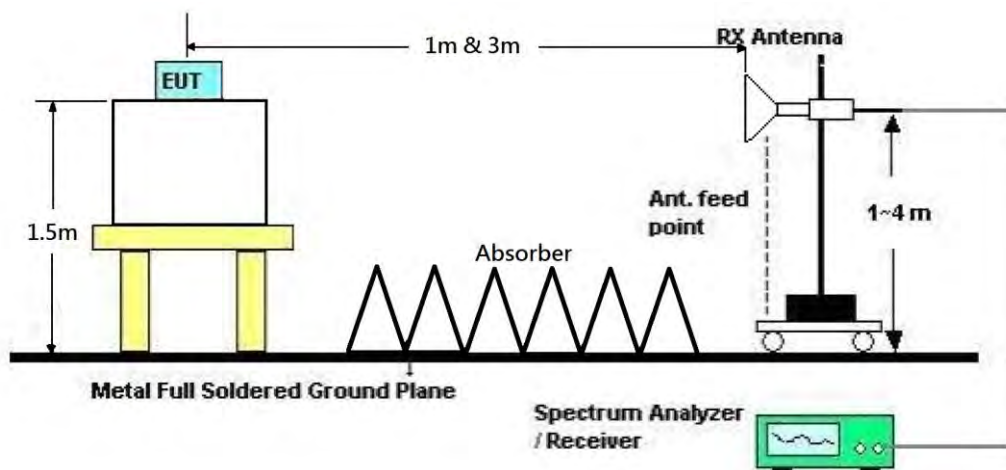
For Radiated Emissions: 9kHz ~30MHz



For Radiated Emissions: 30MHz~1GHz



For Radiated Emissions: Above 1GHz



4.6.5. Test Deviation

There is no deviation with the original standard.

4.6.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.6.7. Results of Radiated Emissions (9kHz~30MHz)

Temperature	23°C	Humidity	66%
Test Engineer	Thor Wei	Configurations	Normal Link
Test Date	Aug. 12, 2017	Test Mode	Mode 2

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.

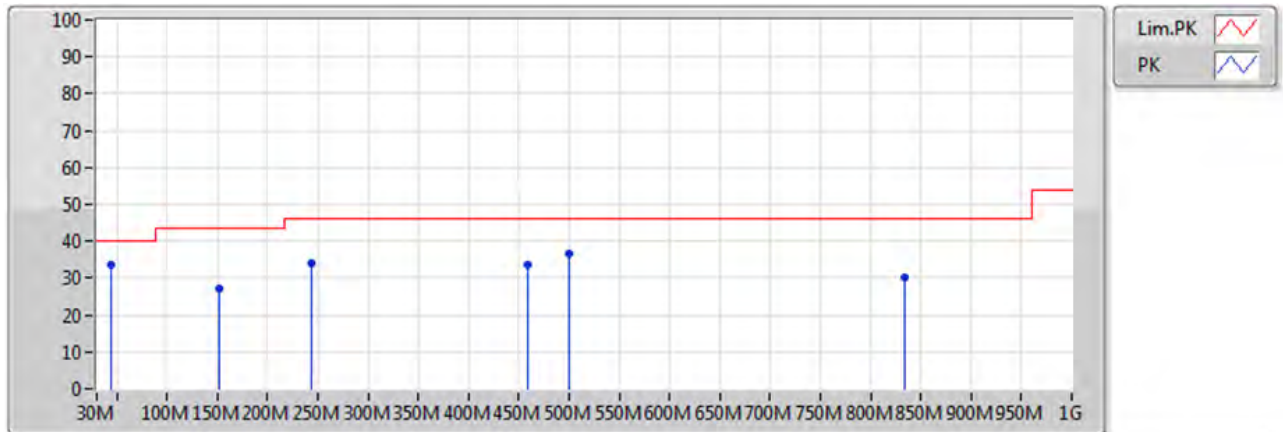
Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

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

4.6.8. Results of Radiated Emissions (30MHz~1GHz)

Temperature	22°C	Humidity	55%
Test Engineer	Teddy Chang	Configurations	Normal Link
Test Mode	Mode 2		

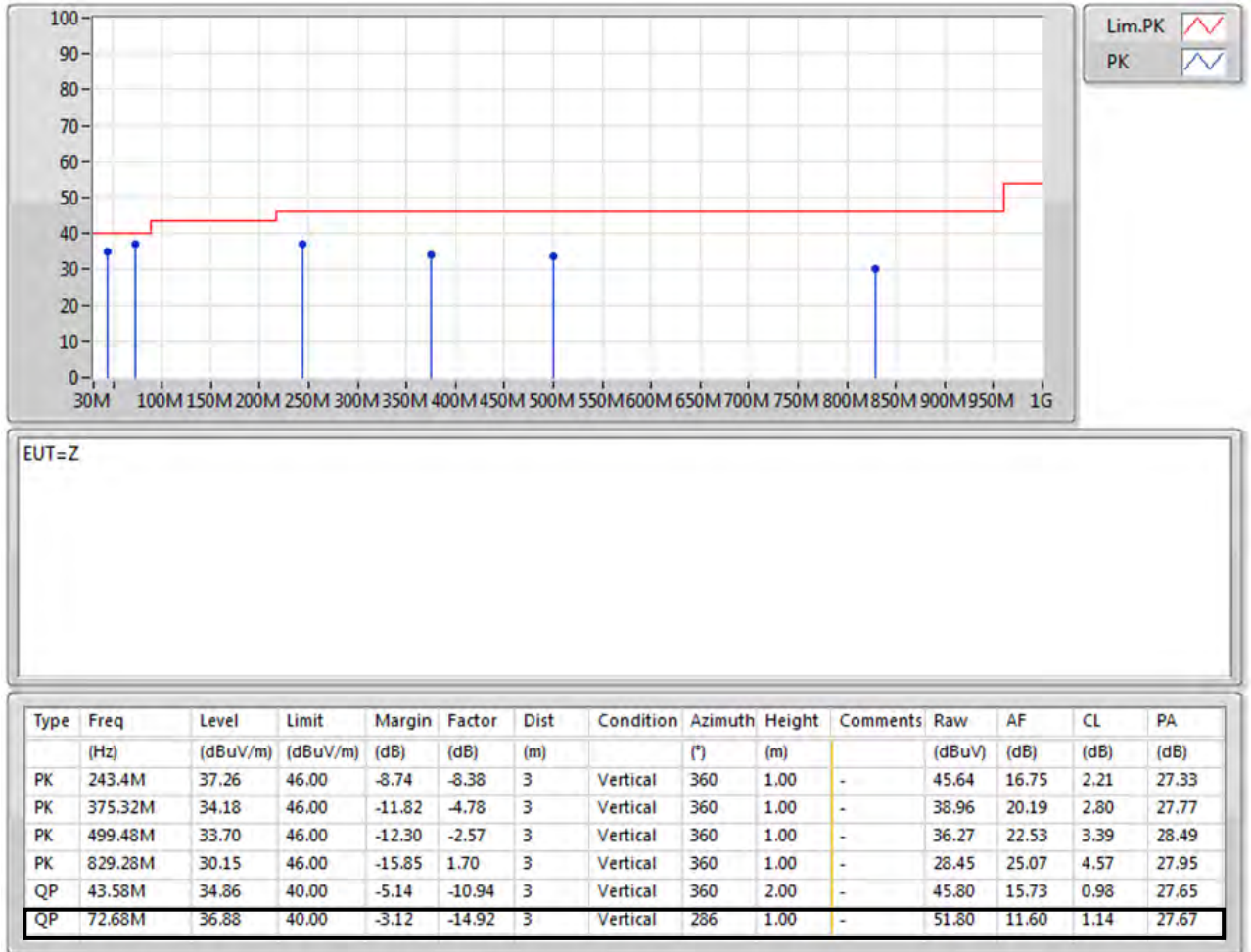
Horizontal



EUT=Z

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	43.58M	33.60	40.00	-6.40	-10.94	3	Horizontal	0	1.00	-	44.54	15.73	0.98	27.65
PK	152.22M	27.12	43.50	-16.38	-10.49	3	Horizontal	0	1.00	-	37.61	15.38	1.76	27.62
PK	243.4M	33.90	46.00	-12.10	-8.38	3	Horizontal	0	1.00	-	42.28	16.75	2.21	27.33
PK	458.74M	33.80	46.00	-12.20	-3.04	3	Horizontal	0	1.00	-	36.84	21.95	3.28	28.27
PK	499.48M	36.45	46.00	-9.55	-2.57	3	Horizontal	0	1.00	-	39.02	22.53	3.39	28.49
PK	833.16M	30.05	46.00	-15.95	1.77	3	Horizontal	0	1.00	-	28.28	25.11	4.60	27.94

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.

4.6.9. Results for Radiated Emissions (1GHz~40GHz)

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15527.10	54.55	74.00	-19.45	40.73	10.77	38.25	35.20	Peak	200	78	HORIZONTAL
2	15546.50	42.86	54.00	-11.14	29.05	10.78	38.23	35.20	Average	200	78	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15558.00	43.52	54.00	-10.48	29.72	10.78	38.23	35.21	Average	200	20	VERTICAL
2	15562.30	56.04	74.00	-17.96	42.27	10.78	38.20	35.21	Peak	200	20	VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15577.20	54.63	74.00	-19.37	40.87	10.78	38.20	35.22	200	83	HORIZONTAL
2	15590.90	42.75	54.00	-11.25	29.01	10.78	38.18	35.22	200	83	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15590.90	43.10	54.00	-10.90	29.36	10.78	38.18	35.22	200	92	VERTICAL
2	15622.70	55.11	74.00	-18.89	41.44	10.78	38.13	35.24	200	92	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15695.40	42.21	54.00	-11.79	28.66	10.79	38.03	35.27	200	152	HORIZONTAL
2	15713.40	54.59	74.00	-19.41	41.07	10.79	38.01	35.28	200	152	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15695.50	42.04	54.00	-11.96	28.49	10.79	38.03	35.27	200	131	VERTICAL
2	15712.90	53.99	74.00	-20.01	40.47	10.79	38.01	35.28	200	131	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11485.14	53.50	74.00	-20.50	39.98	9.24	39.08	34.80	Peak	200	193 HORIZONTAL
2	11488.60	41.31	54.00	-12.69	27.79	9.24	39.08	34.80	Average	200	193 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11485.38	53.88	74.00	-20.12	40.36	9.24	39.08	34.80	Peak	200	259 VERTICAL
2	11490.52	41.16	54.00	-12.84	27.64	9.24	39.08	34.80	Average	200	259 VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11491.02	40.22	54.00	-13.78	26.70	9.24	39.08	34.80	Average	200	102	HORIZONTAL
2	11494.10	52.52	74.00	-21.48	39.00	9.24	39.08	34.80	Peak	200	102	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11488.64	39.54	54.00	-14.46	26.02	9.24	39.08	34.80	Average	200	54	VERTICAL
2	11492.58	52.46	74.00	-21.54	38.94	9.24	39.08	34.80	Peak	200	54	VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11651.08	40.97	54.00	-13.03	27.34	9.28	39.19	34.84	Average	200	202 HORIZONTAL
2	11654.16	52.55	74.00	-21.45	38.92	9.28	39.19	34.84	Peak	200	202 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11647.88	41.80	54.00	-12.20	28.18	9.28	39.18	34.84	Average	200	187 VERTICAL
2	11650.24	53.67	74.00	-20.33	40.05	9.28	39.18	34.84	Peak	200	187 VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15539.02	43.78	54.00	-10.22	29.96	10.77	38.25	35.20	Average	200	106 HORIZONTAL
2	15541.10	55.66	74.00	-18.34	41.84	10.77	38.25	35.20	Peak	200	106 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15535.16	56.59	74.00	-17.41	42.77	10.77	38.25	35.20	Peak	200	26 VERTICAL
2	15544.28	43.57	54.00	-10.43	29.76	10.78	38.23	35.20	Average	200	26 VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15599.44	42.51	54.00	-11.49	28.81	10.78	38.16	35.24	Average	200	64	HORIZONTAL
2	15602.18	55.15	74.00	-18.85	41.45	10.78	38.16	35.24	Peak	200	64	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15599.54	43.54	54.00	-10.46	29.84	10.78	38.16	35.24	Average	200	159	VERTICAL
2	15602.36	55.66	74.00	-18.34	41.96	10.78	38.16	35.24	Peak	200	159	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15718.92	52.41	74.00	-21.59	38.91	10.79	37.99	35.28	Peak	200	43 HORIZONTAL
2	15720.12	42.09	54.00	-11.91	28.59	10.79	37.99	35.28	Average	200	43 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15719.72	43.61	54.00	-10.39	30.11	10.79	37.99	35.28	Average	200	137 VERTICAL
2	15724.70	56.49	74.00	-17.51	42.99	10.79	37.99	35.28	Peak	200	137 VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11486.00	41.11	54.00	-12.89	27.59	9.24	39.08	34.80	Average	200	23	HORIZONTAL
2	11492.48	52.70	74.00	-21.30	39.18	9.24	39.08	34.80	Peak	200	23	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11485.00	53.00	74.00	-21.00	39.48	9.24	39.08	34.80	Peak	200	182	VERTICAL
2	11485.78	41.85	54.00	-12.15	28.33	9.24	39.08	34.80	Average	200	182	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11572.42	53.10	74.00	-20.90	39.52	9.26	39.14	34.82	Peak	200	159	HORIZONTAL
2	11572.64	41.42	54.00	-12.58	27.84	9.26	39.14	34.82	Average	200	159	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11569.84	53.99	74.00	-20.01	40.41	9.26	39.14	34.82	Peak	200	131	VERTICAL
2	11573.24	41.94	54.00	-12.06	28.36	9.26	39.14	34.82	Average	200	131	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11649.48	41.41	54.00	-12.59	27.79	9.28	39.18	34.84	Average	200	146	HORIZONTAL
2	11654.62	52.91	74.00	-21.09	39.28	9.28	39.19	34.84	Peak	200	146	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11647.52	42.27	54.00	-11.73	28.65	9.28	39.18	34.84	Average	200	166	VERTICAL
2	11650.02	54.62	74.00	-19.38	41.00	9.28	39.18	34.84	Peak	200	166	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15569.00	43.90	54.00	-10.10	30.13	10.78	38.20	35.21	Average	200	102	HORIZONTAL
2	15570.10	55.65	74.00	-18.35	41.88	10.78	38.20	35.21	Peak	200	102	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15565.08	55.42	74.00	-18.58	41.65	10.78	38.20	35.21	Peak	200	63	VERTICAL
2	15574.26	43.98	54.00	-10.02	30.22	10.78	38.20	35.22	Average	200	63	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15693.52	43.62	54.00	-10.38	30.07	10.79	38.03	35.27	Average	200	254	HORIZONTAL
2	15698.52	55.30	74.00	-18.70	41.77	10.79	38.01	35.27	Peak	200	254	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15687.12	43.66	54.00	-10.34	30.11	10.79	38.03	35.27	Average	200	64	VERTICAL
2	15697.88	55.34	74.00	-18.66	41.81	10.79	38.01	35.27	Peak	200	64	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11509.68	41.17	54.00	-12.83	27.62	9.25	39.10	34.80	Average	200	177 HORIZONTAL
2	11509.72	52.55	74.00	-21.45	39.00	9.25	39.10	34.80	Peak	200	177 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11509.88	41.85	54.00	-12.15	28.30	9.25	39.10	34.80	Average	200	183 VERTICAL
2	11510.43	54.18	74.00	-19.82	40.63	9.25	39.10	34.80	Peak	200	183 VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configuration	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11589.84	53.53	74.00	-20.47	39.93	9.27	39.15	34.82	200	123	HORIZONTAL
2	11590.41	41.15	54.00	-12.85	27.55	9.27	39.15	34.82	200	123	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11590.00	54.15	74.00	-19.85	40.55	9.27	39.15	34.82	200	162	VERTICAL
2	11590.31	42.04	54.00	-11.96	28.44	9.27	39.15	34.82	200	162	VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15629.82	55.18	74.00	-18.82	41.54	10.78	38.11	35.25	200	191	HORIZONTAL
2	15630.39	43.46	54.00	-10.54	29.82	10.78	38.11	35.25	200	191	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15629.61	55.45	74.00	-18.55	41.81	10.78	38.11	35.25	200	177	VERTICAL
2	15630.48	43.42	54.00	-10.58	29.78	10.78	38.11	35.25	200	177	VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11549.70	54.37	74.00	-19.63	40.79	9.26	39.13	34.81	Peak	200	97 HORIZONTAL
2	11549.93	40.99	54.00	-13.01	27.41	9.26	39.13	34.81	Average	200	97 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11549.52	53.18	74.00	-20.82	39.60	9.26	39.13	34.81	Peak	200	182 VERTICAL
2	11549.65	41.16	54.00	-12.84	27.58	9.26	39.13	34.81	Average	200	182 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	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 25, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15536.41	56.81	74.00	-17.19	42.99	10.77	38.25	35.20	Peak	147	201 HORIZONTAL
2	15539.20	43.62	54.00	-10.38	29.80	10.77	38.25	35.20	Average	147	201 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15537.34	56.27	74.00	-17.73	42.45	10.77	38.25	35.20	Peak	155	135 VERTICAL
2	15541.53	43.51	54.00	-10.49	29.69	10.77	38.25	35.20	Average	155	135 VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 25, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15597.73	43.60	54.00	-10.40	29.88	10.78	38.16	35.22	Average	169	249	HORIZONTAL
2	15598.08	56.61	74.00	-17.39	42.89	10.78	38.16	35.22	Peak	169	249	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15600.93	57.76	74.00	-16.24	44.06	10.78	38.16	35.24	Peak	160	311	VERTICAL
2	15601.17	43.43	54.00	-10.57	29.73	10.78	38.16	35.24	Average	160	311	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 25, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15717.44	56.75	74.00	-17.25	43.25	10.79	37.99	35.28	Peak	121	135	HORIZONTAL
2	15718.52	42.98	54.00	-11.02	29.48	10.79	37.99	35.28	Average	121	135	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15718.44	43.23	54.00	-10.77	29.73	10.79	37.99	35.28	Average	189	234	VERTICAL
2	15721.85	56.60	74.00	-17.40	43.10	10.79	37.99	35.28	Peak	189	234	VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 25, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11490.07	44.93	54.00	-9.07	31.41	9.24	39.08	34.80	Average	149	305	HORIZONTAL
2	11490.72	57.88	74.00	-16.12	44.36	9.24	39.08	34.80	Peak	149	305	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11489.64	55.36	74.00	-18.64	41.84	9.24	39.08	34.80	Peak	133	354	VERTICAL
2	11490.29	42.63	54.00	-11.37	29.11	9.24	39.08	34.80	Average	133	354	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 25, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11570.72	64.08	74.00	-9.92	50.50	9.26	39.14	34.82	Peak	164	310	HORIZONTAL
2	11572.17	50.01	54.00	-3.99	36.43	9.26	39.14	34.82	Average	164	310	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11571.52	58.74	74.00	-15.26	45.16	9.26	39.14	34.82	Peak	162	318	VERTICAL
2	11572.39	45.65	54.00	-8.35	32.07	9.26	39.14	34.82	Average	162	318	VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 25, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11650.14	43.71	54.00	-10.29	30.09	9.28	39.18	34.84	Average	152	319 HORIZONTAL
2	11652.10	55.10	74.00	-18.90	41.47	9.28	39.19	34.84	Peak	152	319 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11637.84	42.37	54.00	-11.63	28.74	9.28	39.18	34.83	Average	120	53 VERTICAL
2	11661.72	54.71	74.00	-19.29	41.08	9.28	39.19	34.84	Peak	120	53 VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 25, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15543.76	43.72	54.00	-10.28	29.91	10.78	38.23	35.20	Average	171	63	HORIZONTAL
2	15544.40	56.79	74.00	-17.21	42.98	10.78	38.23	35.20	Peak	171	63	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15543.78	43.47	54.00	-10.53	29.66	10.78	38.23	35.20	Average	136	254	VERTICAL
2	15544.49	57.55	74.00	-16.45	43.74	10.78	38.23	35.20	Peak	136	254	VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 25, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15595.17	56.81	74.00	-17.19	43.09	10.78	38.16	35.22	168	308	HORIZONTAL
2	15598.97	43.53	54.00	-10.47	29.83	10.78	38.16	35.24	168	308	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	15600.98	56.84	74.00	-17.16	43.14	10.78	38.16	35.24	182	186	VERTICAL
2	15601.30	43.59	54.00	-10.41	29.89	10.78	38.16	35.24	182	186	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 25, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15718.10	43.20	54.00	-10.80	29.70	10.79	37.99	35.28	Average	177	139	HORIZONTAL
2	15721.23	56.11	74.00	-17.89	42.61	10.79	37.99	35.28	Peak	177	139	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15720.19	56.54	74.00	-17.46	43.04	10.79	37.99	35.28	Peak	153	244	VERTICAL
2	15724.47	43.16	54.00	-10.84	29.66	10.79	37.99	35.28	Average	153	244	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 25, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11488.41	42.75	54.00	-11.25	29.23	9.24	39.08	34.80	Average	192	13	HORIZONTAL
2	11490.51	54.58	74.00	-19.42	41.06	9.24	39.08	34.80	Peak	192	13	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11489.62	55.58	74.00	-18.42	42.06	9.24	39.08	34.80	Peak	158	166	VERTICAL
2	11491.91	41.93	54.00	-12.07	28.41	9.24	39.08	34.80	Average	158	166	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 25, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11570.00	47.19	54.00	-6.81	33.61	9.26	39.14	34.82	Average	214	292	HORIZONTAL
2	11572.34	58.22	74.00	-15.78	44.64	9.26	39.14	34.82	Peak	214	292	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11571.77	56.38	74.00	-17.62	42.80	9.26	39.14	34.82	Peak	221	45	VERTICAL
2	11573.47	43.22	54.00	-10.78	29.64	9.26	39.14	34.82	Average	221	45	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 25, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11650.78	55.33	74.00	-18.67	41.70	9.28	39.19	34.84	Peak	216	5	HORIZONTAL
2	11653.11	43.20	54.00	-10.80	29.57	9.28	39.19	34.84	Average	216	5	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11649.57	55.17	74.00	-18.83	41.55	9.28	39.18	34.84	Peak	170	270	VERTICAL
2	11651.30	42.40	54.00	-11.60	28.77	9.28	39.19	34.84	Average	170	270	VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 25, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15568.25	56.80	74.00	-17.20	43.03	10.78	38.20	35.21	Peak	148	175 HORIZONTAL
2	15570.93	43.55	54.00	-10.45	29.78	10.78	38.20	35.21	Average	148	175 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15565.70	43.48	54.00	-10.52	29.71	10.78	38.20	35.21	Average	189	274 VERTICAL
2	15573.89	55.98	74.00	-18.02	42.22	10.78	38.20	35.22	Peak	189	274 VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 25, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15686.40	43.14	54.00	-10.86	29.59	10.79	38.03	35.27	Average	146	136	HORIZONTAL
2	15688.03	56.30	74.00	-17.70	42.75	10.79	38.03	35.27	Peak	146	136	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15685.17	56.35	74.00	-17.65	42.80	10.79	38.03	35.27	Peak	117	198	VERTICAL
2	15687.47	43.16	54.00	-10.84	29.61	10.79	38.03	35.27	Average	117	198	VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 25, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11510.51	41.78	54.00	-12.22	28.23	9.25	39.10	34.80	Average	165	274 HORIZONTAL
2	11513.81	54.81	74.00	-19.19	41.26	9.25	39.10	34.80	Peak	165	274 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11506.64	41.58	54.00	-12.42	28.03	9.25	39.10	34.80	Average	188	156 VERTICAL
2	11507.22	54.90	74.00	-19.10	41.35	9.25	39.10	34.80	Peak	188	156 VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configuration	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 25, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11590.72	42.85	54.00	-11.15	29.25	9.27	39.15	34.82	Average	144	299	HORIZONTAL
2	11592.68	55.47	74.00	-18.53	41.87	9.27	39.15	34.82	Peak	144	299	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11589.63	42.06	54.00	-11.94	28.46	9.27	39.15	34.82	Average	157	104	VERTICAL
2	11591.32	54.62	74.00	-19.38	41.02	9.27	39.15	34.82	Peak	157	104	VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 25, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15625.00	56.45	74.00	-17.55	42.79	10.78	38.13	35.25	Peak	103	250 HORIZONTAL
2	15633.14	43.31	54.00	-10.69	29.67	10.78	38.11	35.25	Average	103	250 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15627.77	43.52	54.00	-10.48	29.86	10.78	38.13	35.25	Average	152	180 VERTICAL
2	15634.02	56.06	74.00	-17.94	42.42	10.78	38.11	35.25	Peak	152	180 VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 25, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11548.18	41.78	54.00	-12.22	28.21	9.26	39.12	34.81	Average	173	128	HORIZONTAL
2	11549.94	54.53	74.00	-19.47	40.95	9.26	39.13	34.81	Peak	173	128	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11550.47	41.96	54.00	-12.04	28.38	9.26	39.13	34.81	Average	188	262	VERTICAL
2	11552.97	54.38	74.00	-19.62	40.80	9.26	39.13	34.81	Peak	188	262	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	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 28, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15539.97	42.37	54.00	-11.63	28.55	10.77	38.25	35.20	Average	150	257	HORIZONTAL
2	15540.45	55.85	74.00	-18.15	42.03	10.77	38.25	35.20	Peak	150	257	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15539.63	42.64	54.00	-11.36	28.82	10.77	38.25	35.20	Average	150	172	VERTICAL
2	15539.72	54.99	74.00	-19.01	41.17	10.77	38.25	35.20	Peak	150	172	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 28, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15599.63	42.11	54.00	-11.89	28.41	10.78	38.16	35.24	Average	150	227	HORIZONTAL
2	15600.21	55.32	74.00	-18.68	41.62	10.78	38.16	35.24	Peak	150	227	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15599.59	54.89	74.00	-19.11	41.19	10.78	38.16	35.24	Peak	150	151	VERTICAL
2	15600.22	42.81	54.00	-11.19	29.11	10.78	38.16	35.24	Average	150	151	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 28, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15719.52	42.26	54.00	-11.74	28.76	10.79	37.99	35.28	Average	150	226	HORIZONTAL
2	15720.12	55.20	74.00	-18.80	41.70	10.79	37.99	35.28	Peak	150	226	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15720.15	42.47	54.00	-11.53	28.97	10.79	37.99	35.28	Average	150	136	VERTICAL
2	15720.35	55.20	74.00	-18.80	41.70	10.79	37.99	35.28	Peak	150	136	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 28, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11489.88	54.87	74.00	-19.13	41.35	9.24	39.08	34.80	Peak	169	307 HORIZONTAL
2	11490.00	42.68	54.00	-11.32	29.16	9.24	39.08	34.80	Average	169	307 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11489.94	54.38	74.00	-19.62	40.86	9.24	39.08	34.80	Peak	167	333 VERTICAL
2	11490.02	42.24	54.00	-11.76	28.72	9.24	39.08	34.80	Average	167	333 VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 28, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11576.97	57.87	74.00	-16.13	44.29	9.26	39.14	34.82	Peak	158	36	HORIZONTAL
2	11577.37	45.46	54.00	-8.54	31.88	9.26	39.14	34.82	Average	158	36	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11572.08	43.53	54.00	-10.47	29.95	9.26	39.14	34.82	Average	154	323	VERTICAL
2	11572.96	55.16	74.00	-18.84	41.58	9.26	39.14	34.82	Peak	154	323	VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 28, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11650.08	42.82	54.00	-11.18	29.20	9.28	39.18	34.84	Average	144	69 HORIZONTAL
2	11650.37	55.06	74.00	-18.94	41.44	9.28	39.18	34.84	Peak	144	69 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11649.79	41.57	54.00	-12.43	27.95	9.28	39.18	34.84	Average	150	254 VERTICAL
2	11649.94	54.45	74.00	-19.55	40.83	9.28	39.18	34.84	Peak	150	254 VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 28, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15539.55	42.23	54.00	-11.77	28.41	10.77	38.25	35.20	Average	150	141	HORIZONTAL
2	15539.75	55.36	74.00	-18.64	41.54	10.77	38.25	35.20	Peak	150	141	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15539.63	42.58	54.00	-11.42	28.76	10.77	38.25	35.20	Average	150	79	VERTICAL
2	15539.67	55.01	74.00	-18.99	41.19	10.77	38.25	35.20	Peak	150	79	VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 28, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15599.64	55.20	74.00	-18.80	41.50	10.78	38.16	35.24	Peak	150	130	HORIZONTAL
2	15599.83	41.96	54.00	-12.04	28.26	10.78	38.16	35.24	Average	150	130	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15599.50	55.37	74.00	-18.63	41.67	10.78	38.16	35.24	Peak	150	263	VERTICAL
2	15599.56	42.41	54.00	-11.59	28.71	10.78	38.16	35.24	Average	150	263	VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 28, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15719.63	42.68	54.00	-11.32	29.18	10.79	37.99	35.28	Average	150	125	HORIZONTAL
2	15720.43	55.29	74.00	-18.71	41.79	10.79	37.99	35.28	Peak	150	125	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15719.66	42.42	54.00	-11.58	28.92	10.79	37.99	35.28	Average	150	289	VERTICAL
2	15719.69	55.61	74.00	-18.39	42.11	10.79	37.99	35.28	Peak	150	289	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 28, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11489.62	41.17	54.00	-12.83	27.65	9.24	39.08	34.80	Average	150	185	HORIZONTAL
2	11489.67	54.28	74.00	-19.72	40.76	9.24	39.08	34.80	Peak	150	185	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11489.69	54.24	74.00	-19.76	40.72	9.24	39.08	34.80	Peak	150	258	VERTICAL
2	11490.01	41.55	54.00	-12.45	28.03	9.24	39.08	34.80	Average	150	258	VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 28, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11574.33	55.00	74.00	-19.00	41.42	9.26	39.14	34.82	Peak	158	47	HORIZONTAL
2	11577.21	44.46	54.00	-9.54	30.88	9.26	39.14	34.82	Average	158	47	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11572.32	56.12	74.00	-17.88	42.54	9.26	39.14	34.82	Peak	152	322	VERTICAL
2	11572.96	43.07	54.00	-10.93	29.49	9.26	39.14	34.82	Average	152	322	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 28, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11649.67	41.39	54.00	-12.61	27.77	9.28	39.18	34.84	Average	150	128	HORIZONTAL
2	11649.81	54.78	74.00	-19.22	41.16	9.28	39.18	34.84	Peak	150	128	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11649.99	54.21	74.00	-19.79	40.59	9.28	39.18	34.84	Peak	150	268	VERTICAL
2	11650.07	41.61	54.00	-12.39	27.99	9.28	39.18	34.84	Average	150	268	VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 28, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15569.72	55.32	74.00	-18.68	41.55	10.78	38.20	35.21	Peak	150	223 HORIZONTAL
2	15570.01	42.14	54.00	-11.86	28.37	10.78	38.20	35.21	Average	150	223 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15569.67	56.79	74.00	-17.21	43.02	10.78	38.20	35.21	Peak	150	106 VERTICAL
2	15570.43	42.39	54.00	-11.61	28.62	10.78	38.20	35.21	Average	150	106 VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 28, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15689.75	42.16	54.00	-11.84	28.61	10.79	38.03	35.27	Average	150	167	HORIZONTAL
2	15689.84	55.78	74.00	-18.22	42.23	10.79	38.03	35.27	Peak	150	167	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15689.64	55.08	74.00	-18.92	41.53	10.79	38.03	35.27	Peak	150	304	VERTICAL
2	15689.66	42.22	54.00	-11.78	28.67	10.79	38.03	35.27	Average	150	304	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 28, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11509.98	41.08	54.00	-12.92	27.53	9.25	39.10	34.80	Average	150	264 HORIZONTAL
2	11510.44	54.18	74.00	-19.82	40.63	9.25	39.10	34.80	Peak	150	264 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11509.50	41.40	54.00	-12.60	27.85	9.25	39.10	34.80	Average	150	192 VERTICAL
2	11510.02	54.15	74.00	-19.85	40.60	9.25	39.10	34.80	Peak	150	192 VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configuration	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 28, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11589.52	55.09	74.00	-18.91	41.49	9.27	39.15	34.82	Peak	150	84 HORIZONTAL
2	11590.33	41.22	54.00	-12.78	27.62	9.27	39.15	34.82	Average	150	84 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11589.63	41.16	54.00	-12.84	27.56	9.27	39.15	34.82	Average	150	151 VERTICAL
2	11590.01	54.13	74.00	-19.87	40.53	9.27	39.15	34.82	Peak	150	151 VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 28, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15629.52	41.58	54.00	-12.42	27.94	10.78	38.11	35.25	Average	150	251	HORIZONTAL
2	15629.53	54.98	74.00	-19.02	41.34	10.78	38.11	35.25	Peak	150	251	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15629.56	54.75	74.00	-19.25	41.11	10.78	38.11	35.25	Peak	150	143	VERTICAL
2	15629.59	41.89	54.00	-12.11	28.25	10.78	38.11	35.25	Average	150	143	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 28, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11549.86	40.96	54.00	-13.04	27.38	9.26	39.13	34.81	Average	150	103	HORIZONTAL
2	11549.88	54.56	74.00	-19.44	40.98	9.26	39.13	34.81	Peak	150	103	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11549.61	53.75	74.00	-20.25	40.17	9.26	39.13	34.81	Peak	150	211	VERTICAL
2	11550.44	41.08	54.00	-12.92	27.50	9.26	39.13	34.81	Average	150	211	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	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15537.47	56.20	74.00	-17.80	42.90	9.76	38.16	34.62	298	165	Peak	HORIZONTAL
2	15545.64	42.97	54.00	-11.03	29.63	9.77	38.19	34.62	298	165	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15532.24	43.06	54.00	-10.94	29.76	9.76	38.16	34.62	345	165	Average	VERTICAL
2	15537.12	55.82	74.00	-18.18	42.52	9.76	38.16	34.62	345	165	Peak	VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	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	15600.19	42.81	54.00	-11.19	29.40	9.81	38.29	34.69	249	165 Average	HORIZONTAL
2	15607.18	56.15	74.00	-17.85	42.74	9.81	38.29	34.69	249	165 Peak	HORIZONTAL

Vertical

	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	15590.22	42.95	54.00	-11.05	29.56	9.80	38.26	34.67	266	165 Average	VERTICAL
2	15599.29	55.83	74.00	-18.17	42.42	9.81	38.29	34.69	266	165 Peak	VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15710.00	43.48	54.00	-10.52	29.92	9.87	38.47	34.78	218	165	Average	HORIZONTAL
2	15723.53	56.70	74.00	-17.30	43.10	9.88	38.50	34.78	218	165	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15713.91	43.69	54.00	-10.31	30.09	9.88	38.50	34.78	178	165	Average	VERTICAL
2	15718.27	56.30	74.00	-17.70	42.70	9.88	38.50	34.78	178	165	Peak	VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11490.32	47.32	54.00	-6.68	35.90	7.34	38.70	34.62	62	130	Average	HORIZONTAL
2	11490.64	60.51	74.00	-13.49	49.09	7.34	38.70	34.62	62	130	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11490.58	60.75	74.00	-13.25	49.33	7.34	38.70	34.62	326	171	Peak	VERTICAL
2	11491.67	47.37	54.00	-6.63	35.95	7.34	38.70	34.62	326	171	Average	VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11571.47	61.82	74.00	-12.18	50.35	7.41	38.71	34.65	132	161	Peak	HORIZONTAL
2	11572.12	48.72	54.00	-5.28	37.25	7.41	38.71	34.65	132	161	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11570.45	59.18	74.00	-14.82	47.71	7.41	38.71	34.65	31	183	Peak	VERTICAL
2	11572.05	47.23	54.00	-6.77	35.76	7.41	38.71	34.65	31	183	Average	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11647.76	44.92	54.00	-9.08	33.37	7.50	38.73	34.68	312	152	Average	HORIZONTAL
2	11648.27	56.78	74.00	-17.22	45.23	7.50	38.73	34.68	312	152	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11655.96	58.78	74.00	-15.22	47.21	7.52	38.73	34.68	1	168	Peak	VERTICAL
2	11656.09	46.45	54.00	-7.55	34.88	7.52	38.73	34.68	1	168	Average	VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	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	15532.37	42.86	54.00	-11.14	29.56	9.76	38.16	34.62	300	150 Average	HORIZONTAL
2	15545.64	55.69	74.00	-18.31	42.35	9.77	38.19	34.62	300	150 Peak	HORIZONTAL

Vertical

	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	15535.83	42.82	54.00	-11.18	29.52	9.76	38.16	34.62	331	150 Average	VERTICAL
2	15537.69	56.07	74.00	-17.93	42.77	9.76	38.16	34.62	331	150 Peak	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15595.58	42.74	54.00	-11.26	29.31	9.81	38.29	34.67	94	172	Average	HORIZONTAL
2	15599.04	55.46	74.00	-18.54	42.05	9.81	38.29	34.69	94	172	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15588.27	56.20	74.00	-17.80	42.81	9.80	38.26	34.67	48	172	Peak	VERTICAL
2	15590.38	42.85	54.00	-11.15	29.46	9.80	38.26	34.67	48	172	Average	VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	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		
1	15704.62	56.86	74.00	-17.14	43.30	9.87	38.47	34.78	104	176 Peak	HORIZONTAL
2	15709.04	43.15	54.00	-10.85	29.59	9.87	38.47	34.78	104	176 Average	HORIZONTAL

Vertical

	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		
1	15709.42	43.48	54.00	-10.52	29.92	9.87	38.47	34.78	54	176 Average	VERTICAL
2	15727.63	56.13	74.00	-17.87	42.55	9.88	38.50	34.80	54	176 Peak	VERTICAL

Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11489.92	45.38	54.00	-8.62	33.96	7.34	38.70	34.62	62	154	Average	HORIZONTAL
2	11490.16	58.17	74.00	-15.83	46.75	7.34	38.70	34.62	62	154	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11495.21	57.93	74.00	-16.07	46.51	7.34	38.70	34.62	335	148	Peak	VERTICAL
2	11495.61	45.01	54.00	-8.99	33.59	7.34	38.70	34.62	335	148	Average	VERTICAL



Temperature	25°C	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Oct. 30, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11572.96	60.60	74.00	-13.40	49.13	7.41	38.71	34.65	133	162	Peak	HORIZONTAL
2	11573.13	47.82	54.00	-6.18	36.35	7.41	38.71	34.65	133	162	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11575.53	59.61	74.00	-14.39	48.14	7.41	38.71	34.65	4	160	Peak	VERTICAL
2	11576.01	47.23	54.00	-6.77	35.76	7.41	38.71	34.65	4	160	Average	VERTICAL