Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 134 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

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	11333.36	40.33	54.00	-13.67	28.81	7.45	38.70	34.63	96	150	Average	HORIZONTAL
2	11342.32	54.54	74.00	-19.46	43.02	7.45	38.70	34.63	96	150	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	11335.32	53.62	74.00	-20.38	42.10	7.45	38.70	34.63	142	150	Peak	VERTICAL
2	11342.80	40.46	54.00	-13.54	28.94	7.45	38.70	34.63	142	150	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

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	11513.68	39.99	54.00	-14.01	28.58	7.33	38.70	34.62	180	150	Average	HORIZONTAL
2	11519.84	53.16	74.00	-20.84	41.74	7.35	38.70	34.63	180	150	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	11512.76	40.09	54.00	-13.91	28.68	7.33	38.70	34.62	252	150	Average	VERTICAL
2	11514.04	53.13	74.00	-20.87	41.72	7.33	38.70	34.62	252	150	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

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	11581.60	39.72	54.00	-14.28	28.25	7.41	38.71	34.65	188	150	Average	HORIZONTAL
2	11590.08	52.77	74.00	-21.23	41.27	7.43	38.72	34.65	188	150	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	11582.76	54.32	74.00	-19.68	42.82	7.43	38.72	34.65	130	150	Peak	VERTICAL
2	11592.68	39.76	54.00	-14.24	28.26	7.43	38.72	34.65	130	150	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

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	15622.56	44.77	54.00	-9.23	31.32	9.82	38.32	34.69	101	150	Average	HORIZONTAL
2	15623.60	57.51	74.00	-16.49	44.06	9.82	38.32	34.69	101	150	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	15625.68	44.70	54.00	-9.30	31.27	9.82	38.32	34.71	140	150	Average	VERTICAL
2	15632.52	57.55	74.00	-16.45	44.08	9.83	38.35	34.71	140	150	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

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	15873.60	59.10	74.00	-14.90	45.25	9.98	38.78	34.91	5	150	Peak	HORIZONTAL
2	15876.28	46.64	54.00	-7.36	32.79	9.98	38.78	34.91	5	150	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	15868.08	59.63	74.00	-14.37	45.78	9.98	38.78	34.91	57	150	Peak	VERTICAL
2	15878.92	46.45	54.00	-7.55	32.60	9.98	38.78	34.91	57	150	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

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	11065.40	53.22	74.00	-20.78	41.52	7.65	38.70	34.65	145	150	Peak	HORIZONTAL
2	11068.52	39.95	54.00	-14.05	28.25	7.65	38.70	34.65	145	150	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	11064.00	40.21	54.00	-13.79	28.51	7.65	38.70	34.65	66	150	Average	VERTICAL
2	11068.52	52.97	74.00	-21.03	41.27	7.65	38.70	34.65	66	150	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 122 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

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	11215.04	40.13	54.00	-13.87	28.53	7.54	38.70	34.64	154	150	Average	HORIZONTAL
2	11221.08	53.33	74.00	-20.67	41.73	7.54	38.70	34.64	154	150	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	11211.08	40.24	54.00	-13.76	28.64	7.54	38.70	34.64	193	150	Average	VERTICAL
2	11224.08	53.14	74.00	-20.86	41.54	7.54	38.70	34.64	193	150	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

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	11544.04	53.40	74.00	-20.60	41.95	7.37	38.71	34.63	144	150	Peak	HORIZONTAL
2	11545.96	39.80	54.00	-14.20	28.36	7.37	38.71	34.64	144	150	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	11546.48	40.12	54.00	-13.88	28.68	7.37	38.71	34.64	168	150	Average	VERTICAL
2	11559.40	53.24	74.00	-20.76	41.78	7.39	38.71	34.64	168	150	Peak	VERTICAL

Note:

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

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

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

Straddle Channel

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 144 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

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	11436.21	40.99	54.00	-13.01	29.54	7.38	38.70	34.63	130	150	Average	HORIZONTAL
2	11437.02	54.16	74.00	-19.84	42.71	7.38	38.70	34.63	130	150	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	11430.62	40.74	54.00	-13.26	29.29	7.38	38.70	34.63	167	150	Average	VERTICAL
2	11446.05	53.61	74.00	-20.39	42.15	7.38	38.70	34.62	167	150	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

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	11431.11	40.89	54.00	-13.11	29.44	7.38	38.70	34.63	269	150	Average	HORIZONTAL
2	11440.96	54.22	74.00	-19.78	42.77	7.38	38.70	34.63	269	150	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	11430.91	53.64	74.00	-20.36	42.19	7.38	38.70	34.63	175	150	Peak	VERTICAL
2	11437.63	40.71	54.00	-13.29	29.26	7.38	38.70	34.63	175	150	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

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	11417.32	40.25	54.00	-13.75	28.79	7.39	38.70	34.63	205	150	Average	HORIZONTAL
2	11424.80	53.70	74.00	-20.30	42.24	7.39	38.70	34.63	205	150	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	11410.72	53.17	74.00	-20.83	41.70	7.40	38.70	34.63	145	150	Peak	VERTICAL
2	11414.44	40.33	54.00	-13.67	28.87	7.39	38.70	34.63	145	150	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

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	11370.88	53.99	74.00	-20.01	42.49	7.43	38.70	34.63	74	150	Peak	HORIZONTAL
2	11384.40	40.55	54.00	-13.45	29.06	7.42	38.70	34.63	74	150	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	11376.44	40.35	54.00	-13.65	28.85	7.43	38.70	34.63	122	150	Average	VERTICAL
2	11378.64	53.26	74.00	-20.74	41.77	7.42	38.70	34.63	122	150	Peak	VERTICAL

Note:

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

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

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

4.7. Band Edge Emissions Measurement

4.7.1. Limit

For transmitters operating in the 5.15-5.35 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 5.470-5.725 GHz band: all emissions outside of the 5.47-5.725 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

4.7.2. Measuring Instruments and Setting

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

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

4.7.3. Test Procedures

1. The test procedure is the same as section 4.6.3.

4.7.4. Test Setup Layout

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

4.7.5. Test Deviation

There is no deviation with the original standard.

4.7.6. EUT Operation during Test

For Non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

For beamforming mode:

The EUT was programmed to be in beamforming transmitting mode.

4.7.7. Test Result of Band Edge and Fundamental Emissions

For Non-Beamforming Mode

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 36

	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	5147.60	65.08	74.00	-8.92	60.44	5.84	33.27	34.47	4	292	Peak	VERTICAL
2	5150.00	51.58	54.00	-2.42	46.94	5.84	33.27	34.47	4	292	Average	VERTICAL
3	5172.80	101.45			96.79	5.83	33.30	34.47	4	292	Average	VERTICAL
4	5178.20	111.97			107.29	5.82	33.33	34.47	4	292	Peak	VERTICAL

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

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5122.80	46.44	54.00	-7.56	41.83	5.84	33.24	34.47	360	287	Average	VERTICAL
2	5123.20	58.26	74.00	-15.74	53.65	5.84	33.24	34.47	360	287	Peak	VERTICAL
3	5194.00	100.80			96.10	5.81	33.36	34.47	360	287	Average	VERTICAL
4	5201.20	110.31			105.61	5.81	33.36	34.47	360	287	Peak	VERTICAL

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

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5073.60	56.94	74.00	-17.06	52.39	5.87	33.15	34.47	126	271	Peak	VERTICAL
2	5087.20	45.45	54.00	-8.55	40.90	5.87	33.15	34.47	126	271	Average	VERTICAL
3	5232.80	101.15			96.41	5.79	33.42	34.47	126	271	Average	VERTICAL
4	5238.40	110.75			106.01	5.79	33.42	34.47	126	271	Peak	VERTICAL
5	5369.60	57.73	74.00	-16.27	52.81	5.73	33.66	34.47	126	271	Peak	VERTICAL
6	5394.40	45.93	54.00	-8.07	40.99	5.72	33.69	34.47	126	271	Average	VERTICAL

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

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 52, 60, 64 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 52

	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	5104.00	45.46	54.00	-8.54	40.89	5.86	33.18	34.47	126	266	Average	VERTICAL
2	5108.00	57.59	74.00	-16.41	53.00	5.85	33.21	34.47	126	266	Peak	VERTICAL
3	5257.60	101.64			96.88	5.78	33.45	34.47	126	266	Average	VERTICAL
4	5262.40	111.16			106.37	5.78	33.48	34.47	126	266	Peak	VERTICAL
5	5412.80	45.81	54.00	-8.19	40.83	5.70	33.75	34.47	126	266	Average	VERTICAL
6	5417.60	57.75	74.00	-16.25	52.77	5.70	33.75	34.47	126	266	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	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	5292.80	101.64			96.81	5.76	33.54	34.47	330	273	Average	VERTICAL
2	5298.00	112.13			107.30	5.76	33.54	34.47	330	273	Peak	VERTICAL
3	5350.80	47.04	54.00	-6.96	42.15	5.73	33.63	34.47	330	273	Average	VERTICAL
4	5356.80	59.06	74.00	-14.94	54.17	5.73	33.63	34.47	330	273	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	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	5322.80	111.16			106.31	5.75	33.57	34.47	330	277	Peak	VERTICAL
2	5326.40	101.85			97.00	5.75	33.57	34.47	330	277	Average	VERTICAL
3	5350.00	50.86	54.00	-3.14	45.97	5.73	33.63	34.47	330	277	Average	VERTICAL
4	5351.20	65.09	74.00	-8.91	60.20	5.73	33.63	34.47	330	277	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 100, 116, 140 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 100

	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	5425.60	49.52	54.00	-4.48	44.54	5.70	33.75	34.47	209	289	Average	VERTICAL
2	5458.00	62.35	74.00	-11.65	57.33	5.68	33.81	34.47	209	289	Peak	VERTICAL
3	5469.40	64.50	68.20	-3.70	59.45	5.68	33.84	34.47	209	289	Peak	VERTICAL
4	5492.80	101.91			96.84	5.67	33.87	34.47	209	289	Average	VERTICAL
5	5501.80	112.65			107.57	5.66	33.90	34.48	209	289	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 116

	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	5420.80	61.30	74.00	-12.70	56.32	5.70	33.75	34.47	213	291	Peak	VERTICAL
2	5423.20	50.81	54.00	-3.19	45.83	5.70	33.75	34.47	213	291	Average	VERTICAL
3	5470.00	56.76	68.20	-11.44	51.71	5.68	33.84	34.47	213	291	Peak	VERTICAL
4	5572.80	101.22			95.90	5.70	34.11	34.49	213	291	Average	VERTICAL
5	5576.80	110.62			105.30	5.70	34.11	34.49	213	291	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5580 MHz.

Channel 140

	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	5698.00	111.74			106.01	5.77	34.47	34.51	333	269	Peak	VERTICAL
2	5701.20	100.09			94.30	5.78	34.52	34.51	333	269	Average	VERTICAL
3	5725.00	52.59	54.00	-1.41	46.74	5.79	34.57	34.51	333	269	Average	VERTICAL
4	5725.60	72.52	74.00	-1.48	66.67	5.79	34.57	34.51	333	269	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 149

	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	5715.00	65.22	68.20	-2.98	59.43	5.78	34.52	34.51	334	291	Peak	VERTICAL
2	5724.80	77.02	78.20	-1.18	71.17	5.79	34.57	34.51	334	291	Peak	VERTICAL
3	5742.80	110.09			104.19	5.80	34.62	34.52	334	291	Peak	VERTICAL
4	5751.60	99.40			93.42	5.82	34.68	34.52	334	291	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

Channel 157

	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	5709.40	59.70	68.20	-8.50	53.91	5.78	34.52	34.51	332	278	Peak	VERTICAL
2	5719.60	59.21	78.20	-18.99	53.36	5.79	34.57	34.51	332	278	Peak	VERTICAL
3	5778.40	100.68			94.65	5.83	34.73	34.53	332	278	Average	VERTICAL
4	5786.80	111.31			105.22	5.84	34.78	34.53	332	278	Peak	VERTICAL
5	5854.80	58.64	78.20	-19.56	52.31	5.88	34.99	34.54	332	278	Peak	VERTICAL
6	5868.40	58.90	68.20	-9.30	52.57	5.88	34.99	34.54	332	278	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

	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	5819.80	99.82			93.61	5.86	34.88	34.53	333	268	Average	VERTICAL
2	5827.00	110.12			103.91	5.86	34.88	34.53	333	268	Peak	VERTICAL
3	5851.80	68.46	78.20	-9.74	62.20	5.87	34.93	34.54	333	268	Peak	VERTICAL
4	5862.20	62.94	68.20	-5.26	56.61	5.88	34.99	34.54	333	268	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 36

	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	5148.40	60.46	74.00	-13.54	55.82	5.84	33.27	34.47	126	262	Peak	VERTICAL
2	5150.00	48.26	54.00	-5.74	43.62	5.84	33.27	34.47	126	262	Average	VERTICAL
3	5172.80	99.33			94.67	5.83	33.30	34.47	126	262	Average	VERTICAL
4	5177.20	108.99			104.31	5.82	33.33	34.47	126	262	Peak	VERTICAL

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

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5118.80	56.98	74.00	-17.02	52.39	5.85	33.21	34.47	332	284	Peak	VERTICAL
2	5118.80	44.84	54.00	-9.16	40.25	5.85	33.21	34.47	332	284	Average	VERTICAL
3	5202.80	109.40			104.70	5.81	33.36	34.47	332	284	Peak	VERTICAL
4	5205.60	99.71			95.01	5.81	33.36	34.47	332	284	Average	VERTICAL

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

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5076.00	44.25	54.00	-9.75	39.70	5.87	33.15	34.47	332	285	Average	VERTICAL
2	5081.60	57.38	74.00	-16.62	52.83	5.87	33.15	34.47	332	285	Peak	VERTICAL
3	5236.80	109.93			105.19	5.79	33.42	34.47	332	285	Peak	VERTICAL
4	5238.40	99.91			95.17	5.79	33.42	34.47	332	285	Average	VERTICAL
5	5399.20	45.62	54.00	-8.38	40.66	5.71	33.72	34.47	332	285	Average	VERTICAL
6	5439.20	57.36	74.00	-16.64	52.36	5.69	33.78	34.47	332	285	Peak	VERTICAL

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

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52, 60, 64 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 52

	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	5108.00	44.38	54.00	-9.62	39.79	5.85	33.21	34.47	333	272	Average	VERTICAL
2	5142.40	56.55	74.00	-17.45	51.91	5.84	33.27	34.47	333	272	Peak	VERTICAL
3	5252.80	99.92			95.16	5.78	33.45	34.47	333	272	Average	VERTICAL
4	5257.60	109.13			104.37	5.78	33.45	34.47	333	272	Peak	VERTICAL
5	5400.80	57.61	74.00	-16.39	52.65	5.71	33.72	34.47	333	272	Peak	VERTICAL
6	5413.60	45.43	54.00	-8.57	40.45	5.70	33.75	34.47	333	272	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	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	5306.40	109.74			104.91	5.76	33.54	34.47	332	261	Peak	VERTICAL
2	5306.40	100.13			95.30	5.76	33.54	34.47	332	261	Average	VERTICAL
3	5359.20	46.74	54.00	-7.26	41.85	5.73	33.63	34.47	332	261	Average	VERTICAL
4	5373.60	59.04	74.00	-14.96	54.12	5.73	33.66	34.47	332	261	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	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	5323.00	109.93			105.08	5.75	33.57	34.47	332	274	Peak	VERTICAL
2	5326.40	100.13			95.28	5.75	33.57	34.47	332	274	Average	VERTICAL
3	5350.00	49.24	54.00	-4.76	44.35	5.73	33.63	34.47	332	274	Average	VERTICAL
4	5350.40	62.63	74.00	-11.37	57.74	5.73	33.63	34.47	332	274	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100, 116, 140 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 100

	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	5412.80	61.78	74.00	-12.22	56.80	5.70	33.75	34.47	208	285	Peak	VERTICAL
2	5428.00	48.71	54.00	-5.29	43.73	5.70	33.75	34.47	208	285	Average	VERTICAL
3	5468.00	65.40	68.20	-2.80	60.35	5.68	33.84	34.47	208	285	Peak	VERTICAL
4	5494.00	100.99			95.92	5.67	33.87	34.47	208	285	Average	VERTICAL
5	5501.60	110.94			105.86	5.66	33.90	34.48	208	285	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 116

	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	5426.40	61.03	74.00	-12.97	56.05	5.70	33.75	34.47	209	293	Peak	VERTICAL
2	5426.40	50.40	54.00	-3.60	45.42	5.70	33.75	34.47	209	293	Average	VERTICAL
3	5466.80	56.96	68.20	-11.24	51.91	5.68	33.84	34.47	209	293	Peak	VERTICAL
4	5574.40	99.87			94.55	5.70	34.11	34.49	209	293	Average	VERTICAL
5	5586.40	109.56			104.18	5.71	34.16	34.49	209	293	Peak	VERTICAL
6	5743.20	58.34	68.20	-9.86	52.44	5.80	34.62	34.52	209	293	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5580 MHz.

Channel 140

	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	5706.20	98.40			92.61	5.78	34.52	34.51	332	268	Average	VERTICAL
2	5707.60	108.79			103.00	5.78	34.52	34.51	332	268	Peak	VERTICAL
3	5725.00	70.74	74.00	-3.26	64.89	5.79	34.57	34.51	332	268	Peak	VERTICAL
4	5725.00	52.93	54.00	-1.07	47.08	5.79	34.57	34.51	332	268	Average	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 149

	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	5713.60	65.59	68.20	-2.61	59.80	5.78	34.52	34.51	329	259	Peak	VERTICAL
2	5722.80	76.94	78.20	-1.26	71.09	5.79	34.57	34.51	329	259	Peak	VERTICAL
3	5737.80	108.07			102.17	5.80	34.62	34.52	329	259	Peak	VERTICAL
4	5741.20	97.58			91.68	5.80	34.62	34.52	329	259	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

Channel 157

	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	5706.20	59.54	68.20	-8.66	53.75	5.78	34.52	34.51	329	277	Peak	VERTICAL
2	5724.20	59.19	78.20	-19.01	53.34	5.79	34.57	34.51	329	277	Peak	VERTICAL
3	5779.40	99.08			93.05	5.83	34.73	34.53	329	277	Average	VERTICAL
4	5782.60	109.73			103.70	5.83	34.73	34.53	329	277	Peak	VERTICAL
5	5850.60	59.60	78.20	-18.60	53.34	5.87	34.93	34.54	329	277	Peak	VERTICAL
6	5861.00	59.07	68.20	-9.13	52.74	5.88	34.99	34.54	329	277	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

	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	5818.60	98.91			92.76	5.85	34.83	34.53	334	286	Average	VERTICAL
2	5827.00	109.22			103.01	5.86	34.88	34.53	334	286	Peak	VERTICAL
3	5850.00	72.33	78.20	-5.87	66.07	5.87	34.93	34.54	334	286	Peak	VERTICAL
4	5861.80	60.67	68.20	-7.53	54.34	5.88	34.99	34.54	334	286	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 38

	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	5150.00	70.47	74.00	-3.53	65.83	5.84	33.27	34.47	2	288	Peak	VERTICAL
2	5150.00	52.98	54.00	-1.02	48.34	5.84	33.27	34.47	2	288	Average	VERTICAL
3	5194.00	105.93			101.23	5.81	33.36	34.47	2	288	Peak	VERTICAL
4	5197.20	94.03			89.33	5.81	33.36	34.47	2	288	Average	VERTICAL
5	5350.00	47.03	54.00	-6.97	42.14	5.73	33.63	34.47	2	288	Average	VERTICAL
6	5357.20	60.15	74.00	-13.85	55.26	5.73	33.63	34.47	2	288	Peak	VERTICAL

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

Channel 46

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5083.60	48.88	54.00	-5.12	44.33	5.87	33.15	34.47	124	260	Average	VERTICAL
2	5146.80	61.36	74.00	-12.64	56.72	5.84	33.27	34.47	124	260	Peak	VERTICAL
3	5223.60	109.16			104.44	5.80	33.39	34.47	124	260	Peak	VERTICAL
4	5244.40	97.56			92.80	5.78	33.45	34.47	124	260	Average	VERTICAL
5	5376.40	49.62	54.00	-4.38	44.70	5.73	33.66	34.47	124	260	Average	VERTICAL
6	5398.80	62.50	74.00	-11.50	57.54	5.71	33.72	34.47	124	260	Peak	VERTICAL

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

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 54

	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	5122.00	61.41	74.00	-12.59	56.82	5.85	33.21	34.47	124	265	Peak	VERTICAL
2	5123.60	49.13	54.00	-4.87	44.52	5.84	33.24	34.47	124	265	Average	VERTICAL
3	5254.80	109.13			104.37	5.78	33.45	34.47	124	265	Peak	VERTICAL
4	5256.40	97.97			93.21	5.78	33.45	34.47	124	265	Average	VERTICAL
5	5415.60	49.44	54.00	-4.56	44.46	5.70	33.75	34.47	124	265	Average	VERTICAL
6	5418.80	62.05	74.00	-11.95	57.07	5.70	33.75	34.47	124	265	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5270 MHz.

Channel 62

	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	5132.40	59.49	74.00	-14.51	54.88	5.84	33.24	34.47	328	258	Peak	VERTICAL
2	5143.60	46.52	54.00	-7.48	41.88	5.84	33.27	34.47	328	258	Average	VERTICAL
3	5318.00	105.56			100.71	5.75	33.57	34.47	328	258	Peak	VERTICAL
4	5324.40	93.45			88.60	5.75	33.57	34.47	328	258	Average	VERTICAL
5	5350.00	52.80	54.00	-1.20	47.91	5.73	33.63	34.47	328	258	Average	VERTICAL
6	5355.60	68.54	74.00	-5.46	63.65	5.73	33.63	34.47	328	258	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5310 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102, 110, 134 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 102

	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	5457.20	63.14	74.00	-10.86	58.12	5.68	33.81	34.47	208	288	Peak	VERTICAL
2	5460.00	49.16	54.00	-4.84	44.14	5.68	33.81	34.47	208	288	Average	VERTICAL
3	5469.20	67.07	68.20	-1.13	62.02	5.68	33.84	34.47	208	288	Peak	VERTICAL
4	5494.80	94.40			89.33	5.67	33.87	34.47	208	288	Average	VERTICAL
5	5502.00	106.18			101.10	5.66	33.90	34.48	208	288	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5510 MHz.

Channel 110

	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	5393.20	62.50	74.00	-11.50	57.56	5.72	33.69	34.47	208	294	Peak	VERTICAL
2	5402.80	50.82	54.00	-3.18	45.86	5.71	33.72	34.47	208	294	Average	VERTICAL
3	5469.20	63.27	68.20	-4.93	58.22	5.68	33.84	34.47	208	294	Peak	VERTICAL
4	5544.40	98.28			93.08	5.68	34.00	34.48	208	294	Average	VERTICAL
5	5558.00	110.54			105.28	5.69	34.06	34.49	208	294	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5550 MHz.

Channel 134

	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	5430.00	59.61	74.00	-14.39	54.61	5.69	33.78	34.47	26	273	Peak	VERTICAL
2	5443.20	47.11	54.00	-6.89	42.11	5.69	33.78	34.47	26	273	Average	VERTICAL
3	5464.00	59.67	68.20	-8.53	54.62	5.68	33.84	34.47	26	273	Peak	VERTICAL
4	5679.60	110.08			104.41	5.76	34.42	34.51	26	273	Peak	VERTICAL
5	5683.20	97.65			91.98	5.76	34.42	34.51	26	273	Average	VERTICAL
6	5731.40	65.51	68.20	-2.69	59.67	5.79	34.57	34.52	26	273	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5670 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 151

	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	5713.00	67.02	68.20	-1.18	61.23	5.78	34.52	34.51	329	271	Peak	VERTICAL
2	5725.00	67.45	78.20	-10.75	61.60	5.79	34.57	34.51	329	271	Peak	VERTICAL
3	5741.80	92.95			87.05	5.80	34.62	34.52	329	271	Average	VERTICAL
4	5746.60	104.65			98.75	5.80	34.62	34.52	329	271	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

	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	5708.60	63.99	68.20	-4.21	58.20	5.78	34.52	34.51	330	250	Peak	VERTICAL
2	5723.00	65.21	78.20	-12.99	59.36	5.79	34.57	34.51	330	250	Peak	VERTICAL
3	5778.20	96.98			90.95	5.83	34.73	34.53	330	250	Average	VERTICAL
4	5779.40	108.61			102.58	5.83	34.73	34.53	330	250	Peak	VERTICAL
5	5852.60	64.10	78.20	-14.10	57.84	5.87	34.93	34.54	330	250	Peak	VERTICAL
6	5861.00	62.58	68.20	-5.62	56.25	5.88	34.99	34.54	330	250	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 58 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 42

	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	5145.00	65.46	74.00	-8.54	60.82	5.84	33.27	34.47	122	250	Peak	VERTICAL
2	5150.00	52.85	54.00	-1.15	48.21	5.84	33.27	34.47	122	250	Average	VERTICAL
3	5238.00	102.03			97.29	5.79	33.42	34.47	122	250	Peak	VERTICAL
4	5242.00	91.93			87.17	5.78	33.45	34.47	122	250	Average	VERTICAL
5	5358.00	48.72	54.00	-5.28	43.83	5.73	33.63	34.47	122	250	Average	VERTICAL
6	5422.00	60.48	74.00	-13.52	55.50	5.70	33.75	34.47	122	250	Peak	VERTICAL

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

Channel 58

	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	5133.20	59.40	74.00	-14.60	54.79	5.84	33.24	34.47	329	250	Peak	VERTICAL
2	5142.80	47.00	54.00	-7.00	42.36	5.84	33.27	34.47	329	250	Average	VERTICAL
3	5281.20	100.66			95.85	5.77	33.51	34.47	329	250	Peak	VERTICAL
4	5318.80	90.52			85.67	5.75	33.57	34.47	329	250	Average	VERTICAL
5	5352.40	52.82	54.00	-1.18	47.93	5.73	33.63	34.47	329	250	Average	VERTICAL
6	5358.00	63.72	74.00	-10.28	58.83	5.73	33.63	34.47	329	250	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5290 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106, 122, 155 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 106

	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	5456.00	65.26	74.00	-8.74	60.24	5.68	33.81	34.47	210	292	Peak	VERTICAL
2	5460.00	52.93	54.00	-1.07	47.91	5.68	33.81	34.47	210	292	Average	VERTICAL
3	5464.00	66.42	68.20	-1.78	61.37	5.68	33.84	34.47	210	292	Peak	VERTICAL
4	5501.20	92.24			87.16	5.66	33.90	34.48	210	292	Average	VERTICAL
5	5554.00	101.05			95.79	5.69	34.06	34.49	210	292	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5530 MHz.

Channel 122

	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	5457.20	60.69	74.00	-13.31	55.67	5.68	33.81	34.47	27	250	Peak	VERTICAL
2	5460.00	48.91	54.00	-5.09	43.89	5.68	33.81	34.47	27	250	Average	VERTICAL
3	5467.60	60.57	68.20	-7.63	55.52	5.68	33.84	34.47	27	250	Peak	VERTICAL
4	5604.40	104.55			99.12	5.72	34.21	34.50	27	250	Peak	VERTICAL
5	5638.00	94.50			88.95	5.74	34.31	34.50	27	250	Average	VERTICAL
6	5759.60	62.85	68.20	-5.35	56.88	5.82	34.68	34.53	27	250	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5610 MHz.

Channel 155

	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	5711.80	67.07	68.20	-1.13	61.28	5.78	34.52	34.51	329	262	Peak	VERTICAL
2	5721.00	66.92	78.20	-11.28	61.07	5.79	34.57	34.51	329	262	Peak	VERTICAL
3	5755.00	101.88			95.90	5.82	34.68	34.52	329	262	Peak	VERTICAL
4	5763.80	91.40			85.43	5.82	34.68	34.53	329	262	Average	VERTICAL
5	5856.40	64.11	78.20	-14.09	57.78	5.88	34.99	34.54	329	262	Peak	VERTICAL
6	5860.00	63.37	68.20	-4.83	57.04	5.88	34.99	34.54	329	262	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5775 MHz.

Note:

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

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

Straddle Channel

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 144 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 144

	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	5717.60	100.93			95.08	5.79	34.57	34.51	332	269	Average	VERTICAL
2	5721.60	111.65			105.80	5.79	34.57	34.51	332	269	Peak	VERTICAL
3	5876.80	61.36	68.20	-6.84	54.97	5.89	35.04	34.54	332	269	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5720 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 144

	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	5715.20	99.84			94.05	5.78	34.52	34.51	333	270	Average	VERTICAL
2	5717.60	110.62			104.77	5.79	34.57	34.51	333	270	Peak	VERTICAL
3	5876.00	61.05	68.20	-7.15	54.66	5.89	35.04	34.54	333	270	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5720 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 142

	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	5431.60	59.81	74.00	-14.19	54.81	5.69	33.78	34.47	127	100	Peak	HORIZONTAL
2	5460.00	47.15	54.00	-6.85	42.13	5.68	33.81	34.47	127	100	Average	HORIZONTAL
3	5465.20	60.24	68.20	-7.96	55.19	5.68	33.84	34.47	127	100	Peak	HORIZONTAL
4	5705.20	92.01			86.22	5.78	34.52	34.51	127	100	Average	HORIZONTAL
5	5717.20	104.06			98.27	5.78	34.52	34.51	127	100	Peak	HORIZONTAL
6	5868.40	60.66	68.20	-7.54	54.33	5.88	34.99	34.54	127	100	Peak	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5710 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 138

	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	5674.40	99.41			93.74	5.76	34.42	34.51	126	100	Peak	HORIZONTAL
2	5679.20	89.35			83.68	5.76	34.42	34.51	126	100	Average	HORIZONTAL
3	5831.00	60.69	68.20	-7.51	54.48	5.86	34.88	34.53	126	100	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5690 MHz.

Note:

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

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

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 09, 2015		

Channel 36

	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	5143.20	64.69	74.00	-9.31	60.05	5.84	33.27	34.47	358	262	Peak	VERTICAL
2	5149.20	51.61	54.00	-2.39	46.97	5.84	33.27	34.47	358	262	Average	VERTICAL
3	5173.60	106.10			101.42	5.82	33.33	34.47	358	262	Average	VERTICAL
4	5174.00	115.62			110.94	5.82	33.33	34.47	358	262	Peak	VERTICAL

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

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5126.20	61.10	74.00	-12.90	56.49	5.84	33.24	34.47	321	271	Peak	VERTICAL
2	5127.40	47.94	54.00	-6.06	43.33	5.84	33.24	34.47	321	271	Average	VERTICAL
3	5202.40	115.82			111.12	5.81	33.36	34.47	321	271	Peak	VERTICAL
4	5207.20	106.40			101.70	5.81	33.36	34.47	321	271	Average	VERTICAL

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

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5082.40	48.01	54.00	-5.99	43.46	5.87	33.15	34.47	359	249	Average	VERTICAL
2	5100.80	58.94	74.00	-15.06	54.37	5.86	33.18	34.47	359	249	Peak	VERTICAL
3	5233.60	115.13			110.39	5.79	33.42	34.47	359	249	Peak	VERTICAL
4	5233.60	105.46			100.72	5.79	33.42	34.47	359	249	Average	VERTICAL
5	5381.60	59.92	74.00	-14.08	54.98	5.72	33.69	34.47	359	249	Peak	VERTICAL
6	5393.60	48.17	54.00	-5.83	43.23	5.72	33.69	34.47	359	249	Average	VERTICAL

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

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 52, 60, 64 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 09, 2015		

Channel 52

	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	5141.20	58.13	74.00	-15.87	53.49	5.84	33.27	34.47	328	269	Peak	VERTICAL
2	5149.60	46.24	54.00	-7.76	41.60	5.84	33.27	34.47	328	269	Average	VERTICAL
3	5255.80	115.36			110.60	5.78	33.45	34.47	328	269	Peak	VERTICAL
4	5266.60	106.31			101.52	5.78	33.48	34.47	328	269	Average	VERTICAL
5	5356.00	47.62	54.00	-6.38	42.73	5.73	33.63	34.47	328	269	Average	VERTICAL
6	5383.00	59.97	74.00	-14.03	55.03	5.72	33.69	34.47	328	269	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	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	5296.40	115.95			111.12	5.76	33.54	34.47	332	297	Peak	VERTICAL
2	5306.60	106.45			101.62	5.76	33.54	34.47	332	297	Average	VERTICAL
3	5354.00	61.37	74.00	-12.63	56.48	5.73	33.63	34.47	332	297	Peak	VERTICAL
4	5376.80	48.70	54.00	-5.30	43.78	5.73	33.66	34.47	332	297	Average	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	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	5316.40	116.18			111.33	5.75	33.57	34.47	330	265	Peak	VERTICAL
2	5326.40	105.98			101.13	5.75	33.57	34.47	330	265	Average	VERTICAL
3	5350.80	52.30	54.00	-1.70	47.41	5.73	33.63	34.47	330	265	Average	VERTICAL
4	5354.40	65.49	74.00	-8.51	60.60	5.73	33.63	34.47	330	265	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 100, 116, 140 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 09, 2015		

Channel 100

	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	5334.40	64.37	74.00	-9.63	59.50	5.74	33.60	34.47	210	263	Peak	VERTICAL
2	5344.00	52.94	54.00	-1.06	48.05	5.73	33.63	34.47	210	263	Average	VERTICAL
3	5470.00	64.66	74.00	-9.34	59.61	5.68	33.84	34.47	210	263	Peak	VERTICAL
4	5470.00	51.38	54.00	-2.62	46.33	5.68	33.84	34.47	210	263	Average	VERTICAL
5	5496.40	114.18			109.11	5.67	33.87	34.47	210	263	Peak	VERTICAL
6	5506.00	104.21			99.13	5.66	33.90	34.48	210	263	Average	VERTICAL

Item 5, 6 are the fundamental frequency at 5500 MHz.

Channel 116

	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	5416.80	63.52	74.00	-10.48	58.54	5.70	33.75	34.47	324	253	Peak	VERTICAL
2	5426.40	52.99	54.00	-1.01	48.01	5.70	33.75	34.47	324	253	Average	VERTICAL
3	5468.80	46.11	54.00	-7.89	41.06	5.68	33.84	34.47	324	253	Average	VERTICAL
4	5470.00	59.11	74.00	-14.89	54.06	5.68	33.84	34.47	324	253	Peak	VERTICAL
5	5587.20	115.44			110.06	5.71	34.16	34.49	324	253	Peak	VERTICAL
6	5587.20	104.89			99.51	5.71	34.16	34.49	324	253	Average	VERTICAL
7	5743.20	63.51	74.00	-10.49	57.61	5.80	34.62	34.52	324	253	Peak	VERTICAL
8	5743.20	52.15	54.00	-1.85	46.25	5.80	34.62	34.52	324	253	Average	VERTICAL

Item 5, 6 are the fundamental frequency at 5580 MHz.

Channel 140

	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	5455.20	62.67	74.00	-11.33	57.65	5.68	33.81	34.47	329	277	Peak	VERTICAL
2	5455.20	52.05	54.00	-1.95	47.03	5.68	33.81	34.47	329	277	Average	VERTICAL
3	5465.20	52.11	54.00	-1.89	47.06	5.68	33.84	34.47	329	277	Average	VERTICAL
4	5466.40	63.70	74.00	-10.30	58.65	5.68	33.84	34.47	329	277	Peak	VERTICAL
5	5696.40	114.07			108.34	5.77	34.47	34.51	329	277	Peak	VERTICAL
6	5707.20	103.91			98.12	5.78	34.52	34.51	329	277	Average	VERTICAL
7	5725.00	72.82	74.00	-1.18	66.97	5.79	34.57	34.51	329	277	Peak	VERTICAL
8	5726.40	52.98	54.00	-1.02	47.13	5.79	34.57	34.51	329	277	Average	VERTICAL

Item 5, 6 are the fundamental frequency at 5700 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 09, 2015		

Channel 149

	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	5714.20	50.09	54.00	-3.91	44.30	5.78	34.52	34.51	358	285	Average	VERTICAL
2	5714.60	66.67	74.00	-7.33	60.88	5.78	34.52	34.51	358	285	Peak	VERTICAL
3	5724.60	76.95	78.20	-1.25	71.10	5.79	34.57	34.51	358	285	Peak	VERTICAL
4	5739.00	101.98			96.08	5.80	34.62	34.52	358	285	Average	VERTICAL
5	5749.40	112.16			106.26	5.80	34.62	34.52	358	285	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5745 MHz.

Channel 157

	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	5551.00	62.08	68.20	-6.12	56.81	5.69	34.06	34.48	327	281	Peak	VERTICAL
2	5705.80	61.32	68.20	-6.88	55.53	5.78	34.52	34.51	327	281	Peak	VERTICAL
3	5781.40	114.62			108.59	5.83	34.73	34.53	327	281	Peak	VERTICAL
4	5781.40	104.94			98.91	5.83	34.73	34.53	327	281	Average	VERTICAL
5	5856.00	59.60	78.20	-18.60	53.27	5.88	34.99	34.54	327	281	Peak	VERTICAL
6	6033.40	60.65	68.20	-7.55	53.81	5.99	35.42	34.57	327	281	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

	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	5819.00	105.04			98.89	5.85	34.83	34.53	360	289	Average	VERTICAL
2	5824.20	114.90			108.69	5.86	34.88	34.53	360	289	Peak	VERTICAL
3	5850.00	72.82	78.20	-5.38	66.56	5.87	34.93	34.54	360	289	Peak	VERTICAL
4	5862.20	64.41	68.20	-3.79	58.08	5.88	34.99	34.54	360	289	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 09, 2015		

Channel 36

	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	5149.60	68.50	74.00	-5.50	63.86	5.84	33.27	34.47	3	298	Peak	VERTICAL
2	5149.60	52.55	54.00	-1.45	47.91	5.84	33.27	34.47	3	298	Average	VERTICAL
3	5174.60	115.05			110.37	5.82	33.33	34.47	3	298	Peak	VERTICAL
4	5177.20	105.13			100.45	5.82	33.33	34.47	3	298	Average	VERTICAL

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

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5128.40	47.38	54.00	-6.62	42.77	5.84	33.24	34.47	321	285	Average	VERTICAL
2	5144.00	60.31	74.00	-13.69	55.67	5.84	33.27	34.47	321	285	Peak	VERTICAL
3	5196.40	115.20			110.50	5.81	33.36	34.47	321	285	Peak	VERTICAL
4	5201.20	105.12			100.42	5.81	33.36	34.47	321	285	Average	VERTICAL

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

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5126.60	58.76	74.00	-15.24	54.15	5.84	33.24	34.47	330	284	Peak	VERTICAL
2	5150.00	46.52	54.00	-7.48	41.88	5.84	33.27	34.47	330	284	Average	VERTICAL
3	5233.40	105.30			100.56	5.79	33.42	34.47	330	284	Average	VERTICAL
4	5235.80	114.50			109.76	5.79	33.42	34.47	330	284	Peak	VERTICAL
5	5363.60	46.79	54.00	-7.21	41.87	5.73	33.66	34.47	330	284	Average	VERTICAL
6	5382.80	59.45	74.00	-14.55	54.51	5.72	33.69	34.47	330	284	Peak	VERTICAL

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

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52, 60, 64 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 09, 2015		

Channel 52

	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	5145.40	46.14	54.00	-7.86	41.50	5.84	33.27	34.47	332	280	Average	VERTICAL
2	5145.80	58.32	74.00	-15.68	53.68	5.84	33.27	34.47	332	280	Peak	VERTICAL
3	5252.80	105.32			100.56	5.78	33.45	34.47	332	280	Average	VERTICAL
4	5263.00	114.46			109.67	5.78	33.48	34.47	332	280	Peak	VERTICAL
5	5350.00	47.27	54.00	-6.73	42.38	5.73	33.63	34.47	332	280	Average	VERTICAL
6	5374.00	60.05	74.00	-13.95	55.13	5.73	33.66	34.47	332	280	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	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	5293.40	105.23			100.40	5.76	33.54	34.47	332	298	Average	VERTICAL
2	5301.20	114.60			109.77	5.76	33.54	34.47	332	298	Peak	VERTICAL
3	5363.00	60.50	74.00	-13.50	55.58	5.73	33.66	34.47	332	298	Peak	VERTICAL
4	5373.20	48.60	54.00	-5.40	43.68	5.73	33.66	34.47	332	298	Average	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	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	5312.80	105.92			101.07	5.75	33.57	34.47	336	290	Average	VERTICAL
2	5317.60	115.11			110.26	5.75	33.57	34.47	336	290	Peak	VERTICAL
3	5350.40	52.92	54.00	-1.08	48.03	5.73	33.63	34.47	336	290	Average	VERTICAL
4	5352.80	66.24	74.00	-7.76	61.35	5.73	33.63	34.47	336	290	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100, 116, 140 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 09, 2015		

Channel 100

	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	5347.60	63.02	74.00	-10.98	58.13	5.73	33.63	34.47	210	271	Peak	VERTICAL
2	5347.60	52.78	54.00	-1.22	47.89	5.73	33.63	34.47	210	271	Average	VERTICAL
3	5470.00	64.91	74.00	-9.09	59.86	5.68	33.84	34.47	210	271	Peak	VERTICAL
4	5470.00	51.93	54.00	-2.07	46.88	5.68	33.84	34.47	210	271	Average	VERTICAL
5	5492.80	104.21			99.14	5.67	33.87	34.47	210	271	Average	VERTICAL
6	5495.20	113.42			108.35	5.67	33.87	34.47	210	271	Peak	VERTICAL

Item 5, 6 are the fundamental frequency at 5500 MHz.

Channel 116

	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	5415.60	63.08	74.00	-10.92	58.10	5.70	33.75	34.47	324	257	Peak	VERTICAL
2	5427.60	52.88	54.00	-1.12	47.90	5.70	33.75	34.47	324	257	Average	VERTICAL
3	5464.00	58.98	74.00	-15.02	53.93	5.68	33.84	34.47	324	257	Peak	VERTICAL
4	5470.00	46.66	54.00	-7.34	41.61	5.68	33.84	34.47	324	257	Average	VERTICAL
5	5572.80	104.70			99.38	5.70	34.11	34.49	324	257	Average	VERTICAL
6	5581.20	114.04			108.72	5.70	34.11	34.49	324	257	Peak	VERTICAL
7	5739.60	51.71	54.00	-2.29	45.81	5.80	34.62	34.52	324	257	Average	VERTICAL
8	5744.40	63.09	74.00	-10.91	57.19	5.80	34.62	34.52	324	257	Peak	VERTICAL

Item 5, 6 are the fundamental frequency at 5580 MHz.

Channel 140

	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	5454.00	61.32	74.00	-12.68	56.30	5.68	33.81	34.47	335	276	Peak	VERTICAL
2	5455.20	50.08	54.00	-3.92	45.06	5.68	33.81	34.47	335	276	Average	VERTICAL
3	5467.60	50.19	54.00	-3.81	45.14	5.68	33.84	34.47	335	276	Average	VERTICAL
4	5468.80	61.52	74.00	-12.48	56.47	5.68	33.84	34.47	335	276	Peak	VERTICAL
5	5692.80	101.00			95.27	5.77	34.47	34.51	335	276	Average	VERTICAL
6	5695.20	111.11			105.38	5.77	34.47	34.51	335	276	Peak	VERTICAL
7	5725.00	68.78	74.00	-5.22	62.93	5.79	34.57	34.51	335	276	Peak	VERTICAL
8	5725.00	52.84	54.00	-1.16	46.99	5.79	34.57	34.51	335	276	Average	VERTICAL

Item 5, 6 are the fundamental frequency at 5700 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 10, 2015		

Channel 149

	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	5714.20	66.14	68.20	-2.06	60.35	5.78	34.52	34.51	0	285	Peak	VERTICAL
2	5724.40	77.19	78.20	-1.01	71.34	5.79	34.57	34.51	0	285	Peak	VERTICAL
3	5739.60	111.03			105.13	5.80	34.62	34.52	0	285	Peak	VERTICAL
4	5739.60	101.02			95.12	5.80	34.62	34.52	0	285	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

Channel 157

	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	5707.00	59.85	68.20	-8.35	54.06	5.78	34.52	34.51	334	281	Peak	VERTICAL
2	5723.80	59.66	78.20	-18.54	53.81	5.79	34.57	34.51	334	281	Peak	VERTICAL
3	5777.80	102.70			96.67	5.83	34.73	34.53	334	281	Average	VERTICAL
4	5778.40	112.38			106.35	5.83	34.73	34.53	334	281	Peak	VERTICAL
5	5858.20	60.02	78.20	-18.18	53.69	5.88	34.99	34.54	334	281	Peak	VERTICAL
6	5861.20	59.95	68.20	-8.25	53.62	5.88	34.99	34.54	334	281	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

	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	5819.80	112.88			106.67	5.86	34.88	34.53	360	286	Peak	VERTICAL
2	5819.80	102.68			96.47	5.86	34.88	34.53	360	286	Average	VERTICAL
3	5850.00	77.00	78.20	-1.20	70.74	5.87	34.93	34.54	360	286	Peak	VERTICAL
4	5862.60	65.07	68.20	-3.13	58.74	5.88	34.99	34.54	360	286	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 10, 2015		

Channel 38

	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	5148.40	68.36	74.00	-5.64	63.72	5.84	33.27	34.47	333	287	Peak	VERTICAL
2	5150.00	52.91	54.00	-1.09	48.27	5.84	33.27	34.47	333	287	Average	VERTICAL
3	5183.20	106.56			101.88	5.82	33.33	34.47	333	287	Peak	VERTICAL
4	5203.20	97.03			92.33	5.81	33.36	34.47	333	287	Average	VERTICAL

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

Channel 46

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5086.00	48.54	54.00	-5.46	43.99	5.87	33.15	34.47	323	298	Average	VERTICAL
2	5147.60	60.00	74.00	-14.00	55.36	5.84	33.27	34.47	323	298	Peak	VERTICAL
3	5215.60	109.61			104.89	5.80	33.39	34.47	323	298	Peak	VERTICAL
4	5216.40	100.60			95.88	5.80	33.39	34.47	323	298	Average	VERTICAL
5	5374.00	58.85	74.00	-15.15	53.93	5.73	33.66	34.47	323	298	Peak	VERTICAL
6	5378.80	47.52	54.00	-6.48	42.58	5.72	33.69	34.47	323	298	Average	VERTICAL

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

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 10, 2015		

Channel 54

	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	5105.20	60.46	74.00	-13.54	55.89	5.86	33.18	34.47	334	283	Peak	VERTICAL
2	5125.20	49.31	54.00	-4.69	44.70	5.84	33.24	34.47	334	283	Average	VERTICAL
3	5255.60	109.68			104.92	5.78	33.45	34.47	334	283	Peak	VERTICAL
4	5255.60	100.50			95.74	5.78	33.45	34.47	334	283	Average	VERTICAL
5	5415.60	61.09	74.00	-12.91	56.11	5.70	33.75	34.47	334	283	Peak	VERTICAL
6	5415.60	50.30	54.00	-3.70	45.32	5.70	33.75	34.47	334	283	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5270 MHz.

Channel 62

	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	5293.20	95.96			91.13	5.76	33.54	34.47	334	279	Average	VERTICAL
2	5305.60	105.55			100.72	5.76	33.54	34.47	334	279	Peak	VERTICAL
3	5350.40	52.97	54.00	-1.03	48.08	5.73	33.63	34.47	334	279	Average	VERTICAL
4	5353.60	65.57	74.00	-8.43	60.68	5.73	33.63	34.47	334	279	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5310 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102, 110, 134 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 10, 2015		

Channel 102

	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	5460.00	66.76	74.00	-7.24	61.74	5.68	33.81	34.47	207	290	Peak	VERTICAL
2	5460.00	48.74	54.00	-5.26	43.72	5.68	33.81	34.47	207	290	Average	VERTICAL
3	5470.00	67.09	68.20	-1.11	62.04	5.68	33.84	34.47	207	290	Peak	VERTICAL
4	5493.20	96.44			91.37	5.67	33.87	34.47	207	290	Average	VERTICAL
5	5494.80	105.66			100.59	5.67	33.87	34.47	207	290	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5510 MHz.

Channel 110

	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	5394.80	60.85	74.00	-13.15	55.89	5.71	33.72	34.47	303	290	Peak	VERTICAL
2	5405.20	49.02	54.00	-4.98	44.06	5.71	33.72	34.47	303	290	Average	VERTICAL
3	5465.20	59.96	68.20	-8.24	54.91	5.68	33.84	34.47	303	290	Peak	VERTICAL
4	5538.00	100.28			95.08	5.68	34.00	34.48	303	290	Average	VERTICAL
5	5543.60	110.41			105.21	5.68	34.00	34.48	303	290	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5550 MHz.

Channel 134

	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	5440.80	58.86	74.00	-15.14	53.86	5.69	33.78	34.47	329	286	Peak	VERTICAL
2	5445.60	47.67	54.00	-6.33	42.65	5.68	33.81	34.47	329	286	Average	VERTICAL
3	5467.60	57.16	68.20	-11.04	52.11	5.68	33.84	34.47	329	286	Peak	VERTICAL
4	5664.00	109.08			103.47	5.75	34.37	34.51	329	286	Peak	VERTICAL
5	5664.00	99.40			93.79	5.75	34.37	34.51	329	286	Average	VERTICAL
6	5739.60	61.46	68.20	-6.74	55.56	5.80	34.62	34.52	329	286	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5670 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 10, 2015		

Channel 151

	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	5713.40	67.17	68.20	-1.03	61.38	5.78	34.52	34.51	333	293	Peak	VERTICAL
2	5718.20	69.92	78.20	-8.28	64.07	5.79	34.57	34.51	333	293	Peak	VERTICAL
3	5740.60	105.43			99.53	5.80	34.62	34.52	333	293	Peak	VERTICAL
4	5740.60	95.65			89.75	5.80	34.62	34.52	333	293	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

	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	5713.40	63.74	68.20	-4.46	57.95	5.78	34.52	34.51	334	284	Peak	VERTICAL
2	5720.60	67.43	78.20	-10.77	61.58	5.79	34.57	34.51	334	284	Peak	VERTICAL
3	5778.20	99.17			93.14	5.83	34.73	34.53	334	284	Average	VERTICAL
4	5780.60	108.98			102.95	5.83	34.73	34.53	334	284	Peak	VERTICAL
5	5850.00	64.83	78.20	-13.37	58.57	5.87	34.93	34.54	334	284	Peak	VERTICAL
6	5865.40	63.59	68.20	-4.61	57.26	5.88	34.99	34.54	334	284	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 58 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 10, 2015		

Channel 42

	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	5140.40	66.85	74.00	-7.15	62.21	5.84	33.27	34.47	330	302	Peak	VERTICAL
2	5148.40	52.96	54.00	-1.04	48.32	5.84	33.27	34.47	330	302	Average	VERTICAL
3	5195.60	102.34			97.64	5.81	33.36	34.47	330	302	Peak	VERTICAL
4	5203.60	92.53			87.83	5.81	33.36	34.47	330	302	Average	VERTICAL
5	5363.60	46.02	54.00	-7.98	41.10	5.73	33.66	34.47	330	302	Average	VERTICAL
6	5388.40	58.24	74.00	-15.76	53.30	5.72	33.69	34.47	330	302	Peak	VERTICAL

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

Channel 58

	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	5122.00	45.68	54.00	-8.32	41.09	5.85	33.21	34.47	333	270	Average	VERTICAL
2	5149.20	57.33	74.00	-16.67	52.69	5.84	33.27	34.47	333	270	Peak	VERTICAL
3	5278.00	100.84			96.03	5.77	33.51	34.47	333	270	Peak	VERTICAL
4	5278.00	91.88			87.07	5.77	33.51	34.47	333	270	Average	VERTICAL
5	5350.80	52.95	54.00	-1.05	48.06	5.73	33.63	34.47	333	270	Average	VERTICAL
6	5365.20	64.57	74.00	-9.43	59.65	5.73	33.66	34.47	333	270	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5290 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106, 122, 155 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 10, 2015		

Channel 106

	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	5460.00	63.42	74.00	-10.58	58.40	5.68	33.81	34.47	206	284	Peak	VERTICAL
2	5460.00	52.95	54.00	-1.05	47.93	5.68	33.81	34.47	206	284	Average	VERTICAL
3	5465.20	64.88	68.20	-3.32	59.83	5.68	33.84	34.47	206	284	Peak	VERTICAL
4	5518.00	91.78			86.64	5.67	33.95	34.48	206	284	Average	VERTICAL
5	5540.40	100.58			95.38	5.68	34.00	34.48	206	284	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5530 MHz.

Channel 122

	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	5454.80	63.33	74.00	-10.67	58.31	5.68	33.81	34.47	329	274	Peak	VERTICAL
2	5454.80	51.36	54.00	-2.64	46.34	5.68	33.81	34.47	329	274	Average	VERTICAL
3	5466.80	63.61	68.20	-4.59	58.56	5.68	33.84	34.47	329	274	Peak	VERTICAL
4	5578.00	96.34			91.02	5.70	34.11	34.49	329	274	Average	VERTICAL
5	5618.00	105.90			100.41	5.73	34.26	34.50	329	274	Peak	VERTICAL
6	5758.00	63.91	68.20	-4.29	57.94	5.82	34.68	34.53	329	274	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5610 MHz.

Channel 155

	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	5713.40	67.19	68.20	-1.01	61.40	5.78	34.52	34.51	332	292	Peak	VERTICAL
2	5725.00	68.05	78.20	-10.15	62.20	5.79	34.57	34.51	332	292	Peak	VERTICAL
3	5746.20	92.56			86.66	5.80	34.62	34.52	332	292	Average	VERTICAL
4	5748.60	101.23			95.33	5.80	34.62	34.52	332	292	Peak	VERTICAL
5	5855.80	65.16	78.20	-13.04	58.83	5.88	34.99	34.54	332	292	Peak	VERTICAL
6	5871.80	64.37	68.20	-3.83	57.98	5.89	35.04	34.54	332	292	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5775 MHz.

Note:

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

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

Straddle Channel

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 144 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 09, 2015		

Channel 144

	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	5716.40	105.42			99.63	5.78	34.52	34.51	329	270	Average	VERTICAL
2	5717.60	115.38			109.53	5.79	34.57	34.51	329	270	Peak	VERTICAL
3	5882.00	65.15	68.20	-3.05	58.76	5.89	35.04	34.54	329	270	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5720 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 09, 2015		

Channel 144

	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	5717.60	113.49			107.64	5.79	34.57	34.51	359	294	Peak	VERTICAL
2	5717.60	103.81			97.96	5.79	34.57	34.51	359	294	Average	VERTICAL
3	5874.80	62.76	68.20	-5.44	56.37	5.89	35.04	34.54	359	294	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5720 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 10, 2015		

Channel 142

	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	5452.00	57.86	74.00	-16.14	52.84	5.68	33.81	34.47	330	296	Peak	VERTICAL
2	5454.40	47.63	54.00	-6.37	42.61	5.68	33.81	34.47	330	296	Average	VERTICAL
3	5467.60	58.03	68.20	-10.17	52.98	5.68	33.84	34.47	330	296	Peak	VERTICAL
4	5695.60	109.74			104.01	5.77	34.47	34.51	330	296	Peak	VERTICAL
5	5695.60	99.56			93.83	5.77	34.47	34.51	330	296	Average	VERTICAL
6	5863.60	60.29	68.20	-7.91	53.96	5.88	34.99	34.54	330	296	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5710 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 10, 2015		

Channel 138

	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	5662.40	104.59			98.98	5.75	34.37	34.51	328	285	Peak	VERTICAL
2	5681.60	95.65			89.98	5.76	34.42	34.51	328	285	Average	VERTICAL
3	5861.60	59.54	68.20	-8.66	53.21	5.88	34.99	34.54	328	285	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5690 MHz.

Note:

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

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

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 08, 2015		

Channel 36

	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	5147.20	67.30	74.00	-6.70	62.66	5.84	33.27	34.47	1	286	Peak	VERTICAL
2	5148.00	52.98	54.00	-1.02	48.34	5.84	33.27	34.47	1	286	Average	VERTICAL
3	5178.00	118.88			114.20	5.82	33.33	34.47	1	286	Peak	VERTICAL
4	5178.00	108.79			104.11	5.82	33.33	34.47	1	286	Average	VERTICAL

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

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5117.20	64.43	74.00	-9.57	59.84	5.85	33.21	34.47	360	250	Peak	VERTICAL
2	5118.00	51.55	54.00	-2.45	46.96	5.85	33.21	34.47	360	250	Average	VERTICAL
3	5198.00	118.81			114.11	5.81	33.36	34.47	360	250	Peak	VERTICAL
4	5198.00	108.80			104.10	5.81	33.36	34.47	360	250	Average	VERTICAL

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

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5077.60	61.76	74.00	-12.24	57.21	5.87	33.15	34.47	360	292	Peak	VERTICAL
2	5087.20	49.77	54.00	-4.23	45.22	5.87	33.15	34.47	360	292	Average	VERTICAL
3	5237.60	118.84			114.10	5.79	33.42	34.47	360	292	Peak	VERTICAL
4	5238.40	108.73			103.99	5.79	33.42	34.47	360	292	Average	VERTICAL
5	5398.40	48.82	54.00	-5.18	43.86	5.71	33.72	34.47	360	292	Average	VERTICAL
6	5399.20	60.27	74.00	-13.73	55.31	5.71	33.72	34.47	360	292	Peak	VERTICAL

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

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 52, 60, 64 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 08, 2015		

Channel 52

	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	5096.80	61.77	74.00	-12.23	57.20	5.86	33.18	34.47	360	294	Peak	VERTICAL
2	5107.20	51.17	54.00	-2.83	46.58	5.85	33.21	34.47	360	294	Average	VERTICAL
3	5258.40	119.88			115.12	5.78	33.45	34.47	360	294	Peak	VERTICAL
4	5258.40	110.57			105.81	5.78	33.45	34.47	360	294	Average	VERTICAL
5	5419.20	61.02	74.00	-12.98	56.04	5.70	33.75	34.47	360	294	Peak	VERTICAL
6	5419.20	49.53	54.00	-4.47	44.55	5.70	33.75	34.47	360	294	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	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	5135.20	62.41	74.00	-11.59	57.80	5.84	33.24	34.47	359	276	Peak	VERTICAL
2	5147.20	50.87	54.00	-3.13	46.23	5.84	33.27	34.47	359	276	Average	VERTICAL
3	5297.60	119.57			114.74	5.76	33.54	34.47	359	276	Peak	VERTICAL
4	5298.40	110.28			105.45	5.76	33.54	34.47	359	276	Average	VERTICAL
5	5373.60	60.81	74.00	-13.19	55.89	5.73	33.66	34.47	359	276	Peak	VERTICAL
6	5378.40	50.32	54.00	-3.68	45.38	5.72	33.69	34.47	359	276	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5300 MHz.

Channel 64

	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	5317.20	119.57			114.72	5.75	33.57	34.47	359	258	Peak	VERTICAL
2	5317.80	109.72			104.87	5.75	33.57	34.47	359	258	Average	VERTICAL
3	5350.00	69.38	74.00	-4.62	64.49	5.73	33.63	34.47	359	258	Peak	VERTICAL
4	5350.00	52.75	54.00	-1.25	47.86	5.73	33.63	34.47	359	258	Average	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 100, 116, 140 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 08, 2015		

Channel 100

	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	5341.60	52.95	54.00	-1.05	48.08	5.74	33.60	34.47	210	249	Average	VERTICAL
2	5346.40	63.12	74.00	-10.88	58.23	5.73	33.63	34.47	210	249	Peak	VERTICAL
3	5464.00	61.50	74.00	-12.50	56.45	5.68	33.84	34.47	210	249	Peak	VERTICAL
4	5467.60	48.74	54.00	-5.26	43.69	5.68	33.84	34.47	210	249	Average	VERTICAL
5	5492.80	115.21			110.14	5.67	33.87	34.47	210	249	Peak	VERTICAL
6	5492.80	104.96			99.89	5.67	33.87	34.47	210	249	Average	VERTICAL

Item 5, 6 are the fundamental frequency at 5500 MHz.

Channel 116

	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	5414.40	52.88	54.00	-1.12	47.90	5.70	33.75	34.47	188	275	Average	VERTICAL
2	5425.20	63.05	74.00	-10.95	58.07	5.70	33.75	34.47	188	275	Peak	VERTICAL
3	5470.00	58.54	74.00	-15.46	53.49	5.68	33.84	34.47	188	275	Peak	VERTICAL
4	5470.00	46.29	54.00	-7.71	41.24	5.68	33.84	34.47	188	275	Average	VERTICAL
5	5576.40	115.76			110.44	5.70	34.11	34.49	188	275	Peak	VERTICAL
6	5576.40	105.26			99.94	5.70	34.11	34.49	188	275	Average	VERTICAL
7	5738.40	52.98	54.00	-1.02	47.08	5.80	34.62	34.52	188	275	Average	VERTICAL
8	5746.80	64.83	74.00	-9.17	58.93	5.80	34.62	34.52	188	275	Peak	VERTICAL

Item 5, 6 are the fundamental frequency at 5580 MHz.

Channel 140

	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	5455.20	61.83	74.00	-12.17	56.81	5.68	33.81	34.47	358	270	Peak	VERTICAL
2	5456.40	51.32	54.00	-2.68	46.30	5.68	33.81	34.47	358	270	Average	VERTICAL
3	5466.40	61.53	74.00	-12.47	56.48	5.68	33.84	34.47	358	270	Peak	VERTICAL
4	5466.40	50.94	54.00	-3.06	45.89	5.68	33.84	34.47	358	270	Average	VERTICAL
5	5697.60	104.68			98.95	5.77	34.47	34.51	358	270	Average	VERTICAL
6	5698.80	114.96			109.23	5.77	34.47	34.51	358	270	Peak	VERTICAL
7	5859.60	67.38	74.00	-6.62	61.05	5.88	34.99	34.54	358	270	Peak	VERTICAL
8	5859.60	52.90	54.00	-1.10	46.57	5.88	34.99	34.54	358	270	Average	VERTICAL

Item 5, 6 are the fundamental frequency at 5700 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 08, 2015		

Channel 149

	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	5712.60	66.78	74.00	-7.22	60.99	5.78	34.52	34.51	359	278	Peak	VERTICAL
2	5712.60	52.45	54.00	-1.55	46.66	5.78	34.52	34.51	359	278	Average	VERTICAL
3	5723.40	76.86	78.20	-1.34	71.01	5.79	34.57	34.51	359	278	Peak	VERTICAL
4	5743.80	116.19			110.29	5.80	34.62	34.52	359	278	Peak	VERTICAL
5	5743.80	106.60			100.70	5.80	34.62	34.52	359	278	Average	VERTICAL

Item 4, 5 are the fundamental frequency at 5745 MHz.

Channel 157

	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	5551.00	52.71	54.00	-1.29	47.44	5.69	34.06	34.48	0	286	Average	VERTICAL
2	5703.40	64.77	74.00	-9.23	58.98	5.78	34.52	34.51	0	286	Peak	VERTICAL
3	5717.80	62.04	78.20	-16.16	56.19	5.79	34.57	34.51	0	286	Peak	VERTICAL
4	5782.60	119.78			113.75	5.83	34.73	34.53	0	286	Peak	VERTICAL
5	5783.80	110.04			104.01	5.83	34.73	34.53	0	286	Average	VERTICAL
6	5856.00	62.23	78.20	-15.97	55.90	5.88	34.99	34.54	0	286	Peak	VERTICAL
7	5864.20	50.93	54.00	-3.07	44.60	5.88	34.99	34.54	0	286	Average	VERTICAL
8	5944.60	63.34	74.00	-10.66	56.73	5.93	35.24	34.56	0	286	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5785 MHz.

Channel 165

	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	5588.60	51.41	54.00	-2.59	46.03	5.71	34.16	34.49	2	294	Average	VERTICAL
2	5673.00	62.49	74.00	-11.51	56.82	5.76	34.42	34.51	2	294	Peak	VERTICAL
3	5723.80	61.84	78.20	-16.36	55.99	5.79	34.57	34.51	2	294	Peak	VERTICAL
4	5823.80	119.17			112.96	5.86	34.88	34.53	2	294	Peak	VERTICAL
5	5823.80	108.94			102.73	5.86	34.88	34.53	2	294	Average	VERTICAL
6	5850.00	76.75	78.20	-1.45	70.49	5.87	34.93	34.54	2	294	Peak	VERTICAL
7	5860.00	65.30	74.00	-8.70	58.97	5.88	34.99	34.54	2	294	Peak	VERTICAL
8	5863.40	52.44	54.00	-1.56	46.11	5.88	34.99	34.54	2	294	Average	VERTICAL

Item 4, 5 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 08, 2015		

Channel 36

	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	5146.40	52.79	54.00	-1.21	48.15	5.84	33.27	34.47	355	260	Average	VERTICAL
2	5147.60	68.31	74.00	-5.69	63.67	5.84	33.27	34.47	355	260	Peak	VERTICAL
3	5182.00	118.43			113.75	5.82	33.33	34.47	355	260	Peak	VERTICAL
4	5187.20	107.44			102.76	5.82	33.33	34.47	355	260	Average	VERTICAL

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

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5115.20	62.86	74.00	-11.14	58.27	5.85	33.21	34.47	322	282	Peak	VERTICAL
2	5116.00	50.54	54.00	-3.46	45.95	5.85	33.21	34.47	322	282	Average	VERTICAL
3	5201.20	118.56			113.86	5.81	33.36	34.47	322	282	Peak	VERTICAL
4	5206.40	107.83			103.13	5.81	33.36	34.47	322	282	Average	VERTICAL

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

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5129.60	61.59	74.00	-12.41	56.98	5.84	33.24	34.47	356	285	Peak	VERTICAL
2	5150.00	49.58	54.00	-4.42	44.94	5.84	33.27	34.47	356	285	Average	VERTICAL
3	5232.00	118.43			113.69	5.79	33.42	34.47	356	285	Peak	VERTICAL
4	5232.00	107.13			102.39	5.79	33.42	34.47	356	285	Average	VERTICAL
5	5397.60	47.96	54.00	-6.04	43.00	5.71	33.72	34.47	356	285	Average	VERTICAL
6	5398.40	60.06	74.00	-13.94	55.10	5.71	33.72	34.47	356	285	Peak	VERTICAL

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

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52, 60, 64 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 08, 2015		

Channel 52

	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	5096.00	59.75	74.00	-14.25	55.18	5.86	33.18	34.47	331	268	Peak	VERTICAL
2	5104.80	48.69	54.00	-5.31	44.12	5.86	33.18	34.47	331	268	Average	VERTICAL
3	5265.60	118.43			113.64	5.78	33.48	34.47	331	268	Peak	VERTICAL
4	5265.60	108.16			103.37	5.78	33.48	34.47	331	268	Average	VERTICAL
5	5416.00	48.78	54.00	-5.22	43.80	5.70	33.75	34.47	331	268	Average	VERTICAL
6	5421.60	60.73	74.00	-13.27	55.75	5.70	33.75	34.47	331	268	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	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	5136.00	59.98	74.00	-14.02	55.37	5.84	33.24	34.47	350	254	Peak	VERTICAL
2	5136.80	48.64	54.00	-5.36	44.03	5.84	33.24	34.47	350	254	Average	VERTICAL
3	5292.00	117.79			112.98	5.77	33.51	34.47	350	254	Peak	VERTICAL
4	5296.80	107.59			102.76	5.76	33.54	34.47	350	254	Average	VERTICAL
5	5372.00	49.42	54.00	-4.58	44.50	5.73	33.66	34.47	350	254	Average	VERTICAL
6	5376.00	61.29	74.00	-12.71	56.37	5.73	33.66	34.47	350	254	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5300 MHz.

Channel 64

	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	5315.60	118.21			113.36	5.75	33.57	34.47	330	274	Peak	VERTICAL
2	5315.60	107.51			102.66	5.75	33.57	34.47	330	274	Average	VERTICAL
3	5350.60	52.96	54.00	-1.04	48.07	5.73	33.63	34.47	330	274	Average	VERTICAL
4	5353.20	67.34	74.00	-6.66	62.45	5.73	33.63	34.47	330	274	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100, 116, 140 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 08, 2015		

Channel 100

	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	5341.60	65.15	68.20	-3.05	60.28	5.74	33.60	34.47	211	277	Peak	VERTICAL
2	5427.60	64.34	74.00	-9.66	59.36	5.70	33.75	34.47	211	277	Peak	VERTICAL
3	5427.60	52.93	54.00	-1.07	47.95	5.70	33.75	34.47	211	277	Average	VERTICAL
4	5464.00	66.39	68.20	-1.81	61.34	5.68	33.84	34.47	211	277	Peak	VERTICAL
5	5492.80	117.17			112.10	5.67	33.87	34.47	211	277	Peak	VERTICAL
6	5492.80	106.56			101.49	5.67	33.87	34.47	211	277	Average	VERTICAL
7	5737.60	62.94	68.20	-5.26	57.04	5.80	34.62	34.52	211	277	Peak	VERTICAL

Item 5, 6 are the fundamental frequency at 5500 MHz.

Channel 116

	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	5425.20	63.50	74.00	-10.50	58.52	5.70	33.75	34.47	330	250	Peak	VERTICAL
2	5425.20	52.94	54.00	-1.06	47.96	5.70	33.75	34.47	330	250	Average	VERTICAL
3	5470.00	59.68	68.20	-8.52	54.63	5.68	33.84	34.47	330	250	Peak	VERTICAL
4	5575.20	113.84			108.52	5.70	34.11	34.49	330	250	Peak	VERTICAL
5	5586.00	103.33			97.95	5.71	34.16	34.49	330	250	Average	VERTICAL
6	5740.80	62.79	68.20	-5.41	56.89	5.80	34.62	34.52	330	250	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5580 MHz.

Channel 140

	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	5694.40	103.98			98.25	5.77	34.47	34.51	7	260	Average	VERTICAL
2	5694.60	114.52			108.79	5.77	34.47	34.51	7	260	Peak	VERTICAL
3	5725.00	70.09	74.00	-3.91	64.24	5.79	34.57	34.51	7	260	Peak	VERTICAL
4	5725.00	52.70	54.00	-1.30	46.85	5.79	34.57	34.51	7	260	Average	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 08, 2015		

Channel 149

	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	5714.60	64.68	68.20	-3.52	58.89	5.78	34.52	34.51	8	277	Peak	VERTICAL
2	5725.00	77.05	78.20	-1.15	71.20	5.79	34.57	34.51	8	277	Peak	VERTICAL
3	5739.60	103.69			97.79	5.80	34.62	34.52	8	277	Average	VERTICAL
4	5750.20	114.28			108.38	5.80	34.62	34.52	8	277	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

Channel 157

	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	5699.80	62.81	68.20	-5.39	57.08	5.77	34.47	34.51	4	288	Peak	VERTICAL
2	5725.00	62.49	78.20	-15.71	56.64	5.79	34.57	34.51	4	288	Peak	VERTICAL
3	5779.00	107.02			100.99	5.83	34.73	34.53	4	288	Average	VERTICAL
4	5780.20	117.06			111.03	5.83	34.73	34.53	4	288	Peak	VERTICAL
5	5851.20	61.72	78.20	-16.48	55.46	5.87	34.93	34.54	4	288	Peak	VERTICAL
6	5873.80	61.94	68.20	-6.26	55.55	5.89	35.04	34.54	4	288	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

	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	5819.60	116.05			109.84	5.86	34.88	34.53	6	283	Peak	VERTICAL
2	5819.60	105.63			99.42	5.86	34.88	34.53	6	283	Average	VERTICAL
3	5850.00	76.76	78.20	-1.44	70.50	5.87	34.93	34.54	6	283	Peak	VERTICAL
4	5860.20	66.57	68.20	-1.63	60.24	5.88	34.99	34.54	6	283	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Channel 38

	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	5147.20	52.55	54.00	-1.45	47.91	5.84	33.27	34.47	356	286	Average	VERTICAL
2	5148.00	66.43	74.00	-7.57	61.79	5.84	33.27	34.47	356	286	Peak	VERTICAL
3	5202.00	109.14			104.44	5.81	33.36	34.47	356	286	Peak	VERTICAL
4	5202.00	99.61			94.91	5.81	33.36	34.47	356	286	Average	VERTICAL

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

Channel 46

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5082.00	52.70	54.00	-1.30	48.15	5.87	33.15	34.47	356	281	Average	VERTICAL
2	5086.00	62.66	74.00	-11.34	58.11	5.87	33.15	34.47	356	281	Peak	VERTICAL
3	5217.20	111.84			107.12	5.80	33.39	34.47	356	281	Peak	VERTICAL
4	5217.20	102.83			98.11	5.80	33.39	34.47	356	281	Average	VERTICAL
5	5378.00	50.20	54.00	-3.80	45.26	5.72	33.69	34.47	356	281	Average	VERTICAL
6	5385.20	61.42	74.00	-12.58	56.48	5.72	33.69	34.47	356	281	Peak	VERTICAL

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

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Channel 54

	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	5114.80	63.97	74.00	-10.03	59.38	5.85	33.21	34.47	329	289	Peak	VERTICAL
2	5125.20	52.97	54.00	-1.03	48.36	5.84	33.24	34.47	329	289	Average	VERTICAL
3	5266.00	104.91			100.12	5.78	33.48	34.47	329	289	Average	VERTICAL
4	5275.60	114.89			110.08	5.77	33.51	34.47	329	289	Peak	VERTICAL
5	5416.40	63.04	74.00	-10.96	58.06	5.70	33.75	34.47	329	289	Peak	VERTICAL
6	5441.20	52.64	54.00	-1.36	47.64	5.69	33.78	34.47	329	289	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5270 MHz.

Channel 62

	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	5296.00	98.91			94.08	5.76	33.54	34.47	327	279	Average	VERTICAL
2	5301.60	108.70			103.87	5.76	33.54	34.47	327	279	Peak	VERTICAL
3	5350.80	66.23	74.00	-7.77	61.34	5.73	33.63	34.47	327	279	Peak	VERTICAL
4	5350.80	52.93	54.00	-1.07	48.04	5.73	33.63	34.47	327	279	Average	VERTICAL

Item 1, 2 are the fundamental frequency at 5310 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102, 110, 134 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Channel 102

	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	5447.60	49.96	54.00	-4.04	44.94	5.68	33.81	34.47	209	281	Average	VERTICAL
2	5458.80	62.86	74.00	-11.14	57.84	5.68	33.81	34.47	209	281	Peak	VERTICAL
3	5467.60	66.78	68.20	-1.42	61.73	5.68	33.84	34.47	209	281	Peak	VERTICAL
4	5502.80	109.22			104.14	5.66	33.90	34.48	209	281	Peak	VERTICAL
5	5522.80	99.27			94.13	5.67	33.95	34.48	209	281	Average	VERTICAL

Item 4, 5 are the fundamental frequency at 5510 MHz.

Channel 110

	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	5401.20	62.51	74.00	-11.49	57.55	5.71	33.72	34.47	330	282	Peak	VERTICAL
2	5405.20	52.82	54.00	-1.18	47.86	5.71	33.72	34.47	330	282	Average	VERTICAL
3	5465.20	62.54	68.20	-5.66	57.49	5.68	33.84	34.47	330	282	Peak	VERTICAL
4	5535.60	102.91			97.71	5.68	34.00	34.48	330	282	Average	VERTICAL
5	5555.60	112.51			107.25	5.69	34.06	34.49	330	282	Peak	VERTICAL
6	5726.80	61.47	68.20	-6.73	55.62	5.79	34.57	34.51	330	282	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5550 MHz.

Channel 134

	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	5434.80	61.94	74.00	-12.06	56.94	5.69	33.78	34.47	332	286	Peak	VERTICAL
2	5444.40	50.68	54.00	-3.32	45.68	5.69	33.78	34.47	332	286	Average	VERTICAL
3	5466.40	59.06	68.20	-9.14	54.01	5.68	33.84	34.47	332	286	Peak	VERTICAL
4	5655.60	104.66			99.05	5.75	34.37	34.51	332	286	Average	VERTICAL
5	5676.00	115.10			109.43	5.76	34.42	34.51	332	286	Peak	VERTICAL
6	5731.20	64.86	68.20	-3.34	59.02	5.79	34.57	34.52	332	286	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5670 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Channel 151

	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	5715.00	67.07	68.20	-1.13	61.28	5.78	34.52	34.51	7	274	Peak	VERTICAL
2	5719.80	70.47	78.20	-7.73	64.62	5.79	34.57	34.51	7	274	Peak	VERTICAL
3	5769.40	108.62			102.59	5.83	34.73	34.53	7	274	Peak	VERTICAL
4	5769.80	98.44			92.41	5.83	34.73	34.53	7	274	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

	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	5699.80	64.93	68.20	-3.27	59.20	5.77	34.47	34.51	10	283	Peak	VERTICAL
2	5719.00	69.41	78.20	-8.79	63.56	5.79	34.57	34.51	10	283	Peak	VERTICAL
3	5784.60	114.58			108.55	5.83	34.73	34.53	10	283	Peak	VERTICAL
4	5790.20	104.61			98.52	5.84	34.78	34.53	10	283	Average	VERTICAL
5	5850.80	66.36	78.20	-11.84	60.10	5.87	34.93	34.54	10	283	Peak	VERTICAL
6	5940.60	64.48	68.20	-3.72	57.87	5.93	35.24	34.56	10	283	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 58 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Channel 42

	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	5126.00	63.24	74.00	-10.76	58.63	5.84	33.24	34.47	320	284	Peak	VERTICAL
2	5145.20	52.90	54.00	-1.10	48.26	5.84	33.27	34.47	320	284	Average	VERTICAL
3	5201.20	105.79			101.09	5.81	33.36	34.47	320	284	Peak	VERTICAL
4	5226.00	95.91			91.17	5.79	33.42	34.47	320	284	Average	VERTICAL
5	5357.20	60.10	74.00	-13.90	55.21	5.73	33.63	34.47	320	284	Peak	VERTICAL
6	5357.20	48.10	54.00	-5.90	43.21	5.73	33.63	34.47	320	284	Average	VERTICAL

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

Channel 58

	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	5137.00	48.13	54.00	-5.87	43.52	5.84	33.24	34.47	4	270	Average	VERTICAL
2	5147.00	59.41	74.00	-14.59	54.77	5.84	33.27	34.47	4	270	Peak	VERTICAL
3	5260.00	94.35			89.56	5.78	33.48	34.47	4	270	Average	VERTICAL
4	5278.00	103.21			98.40	5.77	33.51	34.47	4	270	Peak	VERTICAL
5	5350.00	63.31	74.00	-10.69	58.42	5.73	33.63	34.47	4	270	Peak	VERTICAL
6	5355.00	52.95	54.00	-1.05	48.06	5.73	33.63	34.47	4	270	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5290 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106, 122, 155 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Channel 106

	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	5457.00	52.75	54.00	-1.25	47.73	5.68	33.81	34.47	211	273	Average	VERTICAL
2	5458.00	62.61	74.00	-11.39	57.59	5.68	33.81	34.47	211	273	Peak	VERTICAL
3	5468.00	64.62	68.20	-3.58	59.57	5.68	33.84	34.47	211	273	Peak	VERTICAL
4	5493.00	102.57			97.50	5.67	33.87	34.47	211	273	Peak	VERTICAL
5	5518.00	94.05			88.91	5.67	33.95	34.48	211	273	Average	VERTICAL
6	5766.00	59.43	68.20	-8.77	53.46	5.82	34.68	34.53	211	273	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5530 MHz.

Channel 122

	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	5454.00	64.34	74.00	-9.66	59.32	5.68	33.81	34.47	332	289	Peak	VERTICAL
2	5460.00	52.61	54.00	-1.39	47.59	5.68	33.81	34.47	332	289	Average	VERTICAL
3	5466.00	64.22	68.20	-3.98	59.17	5.68	33.84	34.47	332	289	Peak	VERTICAL
4	5621.00	110.38			104.89	5.73	34.26	34.50	332	289	Peak	VERTICAL
5	5626.00	100.42			94.93	5.73	34.26	34.50	332	289	Average	VERTICAL
6	5761.00	64.64	68.20	-3.56	58.67	5.82	34.68	34.53	332	289	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5610 MHz.

Channel 155

	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	5714.00	67.13	68.20	-1.07	61.34	5.78	34.52	34.51	6	290	Peak	VERTICAL
2	5724.00	69.17	78.20	-9.03	63.32	5.79	34.57	34.51	6	290	Peak	VERTICAL
3	5760.00	95.51			89.54	5.82	34.68	34.53	6	290	Average	VERTICAL
4	5770.00	104.89			98.86	5.83	34.73	34.53	6	290	Peak	VERTICAL
5	5850.00	64.86	78.20	-13.34	58.60	5.87	34.93	34.54	6	290	Peak	VERTICAL
6	5870.00	64.69	68.20	-3.51	58.36	5.88	34.99	34.54	6	290	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5775 MHz.

Note:

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

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

Straddle Channel

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 144 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 08, 2015		

Channel 144

	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	5718.80	118.62			112.77	5.79	34.57	34.51	1	279	Peak	VERTICAL
2	5718.80	108.76			102.91	5.79	34.57	34.51	1	279	Average	VERTICAL
3	5879.60	66.95	68.20	-1.25	60.56	5.89	35.04	34.54	1	279	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5720 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 08, 2015		

Channel 144

	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	5714.00	106.63			100.84	5.78	34.52	34.51	6	274	Average	VERTICAL
2	5724.80	117.94			112.09	5.79	34.57	34.51	6	274	Peak	VERTICAL
3	5885.60	67.00	68.20	-1.20	60.62	5.89	35.04	34.55	6	274	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5720 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Channel 142

	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	5452.00	58.11	74.00	-15.89	53.09	5.68	33.81	34.47	326	105	Peak	HORIZONTAL
2	5458.00	46.65	54.00	-7.35	41.63	5.68	33.81	34.47	326	105	Average	HORIZONTAL
3	5470.00	57.74	68.20	-10.46	52.69	5.68	33.84	34.47	326	105	Peak	HORIZONTAL
4	5705.20	104.99			99.20	5.78	34.52	34.51	326	105	Peak	HORIZONTAL
5	5705.20	95.47			89.68	5.78	34.52	34.51	326	105	Average	HORIZONTAL
6	5860.00	60.64	68.20	-7.56	54.31	5.88	34.99	34.54	326	105	Peak	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5710 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Channel 138

	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	5705.00	99.30			93.51	5.78	34.52	34.51	8	276	Average	VERTICAL
2	5720.00	108.24			102.39	5.79	34.57	34.51	8	276	Peak	VERTICAL
3	5861.00	61.47	68.20	-6.73	55.14	5.88	34.99	34.54	8	276	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5690 MHz.

Note:

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

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

For Beamforming Mode

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5148.60	48.85	54.00	-5.15	41.95	6.21	33.74	33.05	281	325	Average	VERTICAL
2	5148.80	61.31	74.00	-12.69	54.41	6.21	33.74	33.05	281	325	Peak	VERTICAL
3	5185.80	111.68			104.70	6.24	33.79	33.05	281	325	Peak	VERTICAL
4	5188.00	102.79			95.81	6.24	33.79	33.05	281	325	Average	VERTICAL

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

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5113.20	60.20	74.00	-13.80	53.42	6.14	33.69	33.05	278	12	Peak	VERTICAL
2	5144.00	47.81	54.00	-6.19	40.91	6.21	33.74	33.05	278	12	Average	VERTICAL
3	5206.00	113.34			106.30	6.27	33.82	33.05	278	12	Peak	VERTICAL
4	5206.80	103.06			96.02	6.27	33.82	33.05	278	12	Average	VERTICAL

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

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5148.20	47.23	54.00	-6.77	40.33	6.21	33.74	33.05	276	328	Average	VERTICAL
2	5150.00	59.28	74.00	-14.72	52.38	6.21	33.74	33.05	276	328	Peak	VERTICAL
3	5232.20	103.73			96.61	6.30	33.87	33.05	276	328	Average	VERTICAL
4	5244.20	113.85			106.70	6.30	33.90	33.05	276	328	Peak	VERTICAL
5	5367.20	60.07	74.00	-13.93	52.57	6.47	34.09	33.06	276	328	Peak	VERTICAL
6	5370.20	48.72	54.00	-5.28	41.22	6.47	34.09	33.06	276	328	Average	VERTICAL

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

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52, 60, 64 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 52

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5130.40	47.17	54.00	-6.83	40.34	6.17	33.71	33.05	274	327	Average	VERTICAL
2	5133.40	58.78	74.00	-15.22	51.95	6.17	33.71	33.05	274	327	Peak	VERTICAL
3	5265.40	113.03			105.82	6.34	33.93	33.06	274	327	Peak	VERTICAL
4	5266.60	103.48			96.27	6.34	33.93	33.06	274	327	Average	VERTICAL
5	5362.00	48.94	54.00	-5.06	41.44	6.47	34.09	33.06	274	327	Average	VERTICAL
6	5362.60	61.53	74.00	-12.47	54.03	6.47	34.09	33.06	274	327	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5292.00	104.37			97.11	6.37	33.95	33.06	300	355	Average	VERTICAL
2	5292.40	113.59			106.33	6.37	33.95	33.06	300	355	Peak	VERTICAL
3	5358.80	49.76	54.00	-4.24	42.29	6.47	34.06	33.06	300	355	Average	VERTICAL
4	5360.80	62.05	74.00	-11.95	54.55	6.47	34.09	33.06	300	355	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5324.40	115.35			107.97	6.43	34.01	33.06	278	360	Peak	VERTICAL
2	5328.00	105.65			98.25	6.43	34.03	33.06	278	360	Average	VERTICAL
3	5350.60	52.52	54.00	-1.48	45.05	6.47	34.06	33.06	278	360	Average	VERTICAL
4	5358.00	70.29	74.00	-3.71	62.82	6.47	34.06	33.06	278	360	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100, 116, 140 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5456.00	49.81	54.00	-4.19	42.05	6.60	34.22	33.06	295	326	Average	VERTICAL
2	5459.60	62.42	74.00	-11.58	54.66	6.60	34.22	33.06	295	326	Peak	VERTICAL
3	5469.80	64.44	74.00	-9.56	56.65	6.60	34.25	33.06	295	326	Peak	VERTICAL
4	5470.00	50.73	54.00	-3.27	42.94	6.60	34.25	33.06	295	326	Average	VERTICAL
5	5507.00	104.29			96.41	6.65	34.30	33.07	295	326	Average	VERTICAL
6	5507.00	113.56			105.68	6.65	34.30	33.07	295	326	Peak	VERTICAL

Item 5, 6 are the fundamental frequency at 5500 MHz.

Channel 116

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5426.00	52.93	54.00	-1.07	45.26	6.56	34.17	33.06	255	92	Average	VERTICAL
2	5426.00	64.39	74.00	-9.61	56.72	6.56	34.17	33.06	255	92	Peak	VERTICAL
3	5463.00	63.10	74.00	-10.90	55.31	6.60	34.25	33.06	255	92	Peak	VERTICAL
4	5470.00	48.55	74.00	-25.45	40.76	6.60	34.25	33.06	255	92	Peak	VERTICAL
5	5586.00	103.97			95.99	6.72	34.35	33.09	255	92	Average	VERTICAL
6	5586.00	113.70			105.72	6.72	34.35	33.09	255	92	Peak	VERTICAL
7	5739.00	63.30	74.00	-10.70	55.14	6.86	34.44	33.14	255	92	Peak	VERTICAL
8	5743.00	51.05	54.00	-2.95	42.89	6.86	34.44	33.14	255	92	Average	VERTICAL

Item 5, 6 are the fundamental frequency at 5580 MHz.

Channel 140

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5697.00	102.57			94.47	6.81	34.41	33.12	292	111	Average	VERTICAL
2	5697.00	113.00			104.90	6.81	34.41	33.12	292	111	Peak	VERTICAL
3	5725.00	50.77	54.00	-3.23	42.64	6.83	34.43	33.13	292	111	Average	VERTICAL
4	5725.00	65.45	74.00	-8.55	57.32	6.83	34.43	33.13	292	111	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5709.00	67.19	68.20	-1.01	59.07	6.83	34.42	33.13	254	1	Peak	VERTICAL
2	5724.40	77.14	78.20	-1.06	69.01	6.83	34.43	33.13	254	1	Peak	VERTICAL
3	5737.20	99.58			91.42	6.86	34.44	33.14	254	1	Average	VERTICAL
4	5738.00	109.65			101.49	6.86	34.44	33.14	254	1	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5701.00	62.33	68.20	-5.87	54.22	6.81	34.42	33.12	279	357	Peak	VERTICAL
2	5718.60	61.51	78.20	-16.69	53.38	6.83	34.43	33.13	279	357	Peak	VERTICAL
3	5791.40	103.35			95.13	6.90	34.48	33.16	279	357	Average	VERTICAL
4	5791.80	113.17			104.95	6.90	34.48	33.16	279	357	Peak	VERTICAL
5	5853.20	61.20	78.20	-17.00	52.91	6.95	34.51	33.17	279	357	Peak	VERTICAL
6	5867.80	62.77	68.20	-5.43	54.46	6.97	34.52	33.18	279	357	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5817.80	112.57			104.32	6.92	34.49	33.16	283	115	Peak	VERTICAL
2	5818.60	102.11			93.86	6.92	34.49	33.16	283	115	Average	VERTICAL
3	5850.00	76.51	78.20	-1.69	68.22	6.95	34.51	33.17	283	115	Peak	VERTICAL
4	5861.60	64.99	68.20	-3.21	56.68	6.97	34.52	33.18	283	115	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 38

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5150.00	52.53	54.00	-1.47	45.63	6.21	33.74	33.05	296	99	Average	VERTICAL
2	5150.00	66.86	74.00	-7.14	59.96	6.21	33.74	33.05	296	99	Peak	VERTICAL
3	5201.20	95.99			88.95	6.27	33.82	33.05	296	99	Average	VERTICAL
4	5202.00	106.93			99.89	6.27	33.82	33.05	296	99	Peak	VERTICAL

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

Channel 46

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5076.40	49.49	54.00	-4.51	42.80	6.11	33.63	33.05	285	326	Average	VERTICAL
2	5077.20	60.29	74.00	-13.71	53.60	6.11	33.63	33.05	285	326	Peak	VERTICAL
3	5243.60	110.71			103.56	6.30	33.90	33.05	285	326	Peak	VERTICAL
4	5244.40	101.23			94.08	6.30	33.90	33.05	285	326	Average	VERTICAL
5	5396.40	52.60	54.00	-1.40	45.02	6.50	34.14	33.06	285	326	Average	VERTICAL
6	5400.40	63.74	74.00	-10.26	56.13	6.53	34.14	33.06	285	326	Peak	VERTICAL

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

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 54

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5126.80	52.50	54.00	-1.50	45.67	6.17	33.71	33.05	298	360	Average	VERTICAL
2	5127.60	63.38	74.00	-10.62	56.55	6.17	33.71	33.05	298	360	Peak	VERTICAL
3	5286.00	102.54			95.28	6.37	33.95	33.06	298	360	Average	VERTICAL
4	5286.80	112.33			105.07	6.37	33.95	33.06	298	360	Peak	VERTICAL
5	5350.00	71.84	74.00	-2.16	64.37	6.47	34.06	33.06	298	360	Peak	VERTICAL
6	5443.60	52.47	54.00	-1.53	44.78	6.56	34.19	33.06	298	360	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5270 MHz.

Channel 62

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5294.80	107.76			100.47	6.37	33.98	33.06	246	360	Peak	VERTICAL
2	5295.60	98.58			91.29	6.37	33.98	33.06	246	360	Average	VERTICAL
3	5350.80	52.82	54.00	-1.18	45.35	6.47	34.06	33.06	246	360	Average	VERTICAL
4	5351.60	65.77	74.00	-8.23	58.30	6.47	34.06	33.06	246	360	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5310 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102, 110, 134 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 102

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5353.20	62.94	74.00	-11.06	55.47	6.47	34.06	33.06	277	329	Peak	VERTICAL
2	5364.40	51.04	54.00	-2.96	43.54	6.47	34.09	33.06	277	329	Average	VERTICAL
3	5469.20	66.98	68.20	-1.22	59.19	6.60	34.25	33.06	277	329	Peak	VERTICAL
4	5523.60	100.86			92.97	6.65	34.31	33.07	277	329	Average	VERTICAL
5	5523.60	110.10			102.21	6.65	34.31	33.07	277	329	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5510 MHz.

Channel 110

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5385.20	52.60	54.00	-1.40	45.05	6.50	34.11	33.06	287	332	Average	VERTICAL
2	5402.00	63.74	74.00	-10.26	56.13	6.53	34.14	33.06	287	332	Peak	VERTICAL
3	5468.40	63.01	74.00	-10.99	55.22	6.60	34.25	33.06	287	332	Peak	VERTICAL
4	5469.20	50.77	54.00	-3.23	42.98	6.60	34.25	33.06	287	332	Average	VERTICAL
5	5541.20	114.31			106.39	6.68	34.32	33.08	287	332	Peak	VERTICAL
6	5545.20	103.99			96.07	6.68	34.32	33.08	287	332	Average	VERTICAL

Item 5, 6 are the fundamental frequency at 5550 MHz.

Channel 134

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5683.60	102.57			94.47	6.81	34.41	33.12	300	22	Average	VERTICAL
2	5683.60	112.40			104.30	6.81	34.41	33.12	300	22	Peak	VERTICAL
3	5734.80	67.10	74.00	-6.90	58.94	6.86	34.44	33.14	300	22	Peak	VERTICAL
4	5843.60	52.55	54.00	-1.45	44.26	6.95	34.51	33.17	300	22	Average	VERTICAL

Item 1, 2 are the fundamental frequency at 5670 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5715.00	67.14	68.20	-1.06	59.02	6.83	34.42	33.13	299	357	Peak	VERTICAL
2	5725.00	68.68	78.20	-9.52	60.55	6.83	34.43	33.13	299	357	Peak	VERTICAL
3	5759.00	106.91			98.72	6.88	34.46	33.15	299	357	Peak	VERTICAL
4	5760.60	97.26			89.07	6.88	34.46	33.15	299	357	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5715.00	64.06	68.20	-4.14	55.94	6.83	34.42	33.13	286	322	Peak	VERTICAL
2	5724.60	67.50	78.20	-10.70	59.37	6.83	34.43	33.13	286	322	Peak	VERTICAL
3	5781.40	100.93			92.72	6.90	34.47	33.16	286	322	Average	VERTICAL
4	5782.20	112.43			104.22	6.90	34.47	33.16	286	322	Peak	VERTICAL
5	5851.80	66.97	78.20	-11.23	58.68	6.95	34.51	33.17	286	322	Peak	VERTICAL
6	5861.40	66.94	68.20	-1.26	58.63	6.97	34.52	33.18	286	322	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 58 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 42

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5148.00	52.49	54.00	-1.51	45.59	6.21	33.74	33.05	299	317	Average	VERTICAL
2	5148.00	65.60	74.00	-8.40	58.70	6.21	33.74	33.05	299	317	Peak	VERTICAL
3	5187.00	109.43			102.45	6.24	33.79	33.05	299	317	Peak	VERTICAL
4	5225.00	95.48			88.36	6.30	33.87	33.05	299	317	Average	VERTICAL
5	5384.00	49.37	54.00	-4.63	41.82	6.50	34.11	33.06	299	317	Average	VERTICAL
6	5433.00	61.71	74.00	-12.29	54.02	6.56	34.19	33.06	299	317	Peak	VERTICAL

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

Channel 58

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5102.00	59.12	74.00	-14.88	52.37	6.14	33.66	33.05	298	317	Peak	VERTICAL
2	5107.00	49.49	54.00	-4.51	42.71	6.14	33.69	33.05	298	317	Average	VERTICAL
3	5254.00	95.78			88.60	6.34	33.90	33.06	298	317	Average	VERTICAL
4	5256.00	108.68			101.50	6.34	33.90	33.06	298	317	Peak	VERTICAL
5	5350.00	52.78	54.00	-1.22	45.31	6.47	34.06	33.06	298	317	Average	VERTICAL
6	5358.00	67.05	74.00	-6.95	59.58	6.47	34.06	33.06	298	317	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5290 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106, 122, 155 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 106

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5459.00	52.34	54.00	-1.66	44.58	6.60	34.22	33.06	298	343	Average	VERTICAL
2	5460.00	64.62	74.00	-9.38	56.86	6.60	34.22	33.06	298	343	Peak	VERTICAL
3	5463.00	52.65	54.00	-1.35	44.86	6.60	34.25	33.06	298	343	Average	VERTICAL
4	5466.00	67.27	74.00	-6.73	59.48	6.60	34.25	33.06	298	343	Peak	VERTICAL
5	5495.00	109.32			101.48	6.63	34.27	33.06	298	343	Peak	VERTICAL
6	5541.00	96.20			88.28	6.68	34.32	33.08	298	343	Average	VERTICAL
7	5725.00	47.96	54.00	-6.04	39.83	6.83	34.43	33.13	298	343	Average	VERTICAL
8	5731.00	60.68	74.00	-13.32	52.53	6.86	34.43	33.14	298	343	Peak	VERTICAL

Item 5, 6 are the fundamental frequency at 5530 MHz.

Channel 122

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5437.00	52.51	54.00	-1.49	44.82	6.56	34.19	33.06	291	324	Average	VERTICAL
2	5438.00	65.47	74.00	-8.53	57.78	6.56	34.19	33.06	291	324	Peak	VERTICAL
3	5467.00	67.47	74.00	-6.53	59.68	6.60	34.25	33.06	291	324	Peak	VERTICAL
4	5470.00	52.98	54.00	-1.02	45.19	6.60	34.25	33.06	291	324	Average	VERTICAL
5	5587.00	113.99			106.01	6.72	34.35	33.09	291	324	Peak	VERTICAL
6	5591.00	99.92			91.94	6.72	34.35	33.09	291	324	Average	VERTICAL
7	5741.00	65.72	74.00	-8.28	57.56	6.86	34.44	33.14	291	324	Peak	VERTICAL
8	5743.00	52.99	54.00	-1.01	44.83	6.86	34.44	33.14	291	324	Average	VERTICAL

Item 5, 6 are the fundamental frequency at 5610 MHz.

Channel 155

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5708.00	65.53	68.20	-2.67	57.41	6.83	34.42	33.13	289	318	Peak	VERTICAL
2	5718.00	67.30	78.20	-10.90	59.17	6.83	34.43	33.13	289	318	Peak	VERTICAL
3	5738.00	107.50			99.34	6.86	34.44	33.14	289	318	Peak	VERTICAL
4	5776.00	92.41			84.21	6.88	34.47	33.15	289	318	Average	VERTICAL
5	5850.00	65.50	78.20	-12.70	57.21	6.95	34.51	33.17	289	318	Peak	VERTICAL
6	5868.00	67.01	68.20	-1.19	58.70	6.97	34.52	33.18	289	318	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5775 MHz.

Straddle Channel

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 144

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5718.00	104.08			95.95	6.83	34.43	33.13	269	325	Average	VERTICAL
2	5720.00	113.97			105.84	6.83	34.43	33.13	269	325	Peak	VERTICAL
3	5873.00	65.23	68.20	-2.97	56.91	6.97	34.53	33.18	269	325	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5720 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 142

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5453.20	61.69	74.00	-12.31	53.93	6.60	34.22	33.06	265	323	Peak	VERTICAL
2	5456.80	50.16	54.00	-3.84	42.40	6.60	34.22	33.06	265	323	Average	VERTICAL
3	5470.00	60.33	68.20	-7.87	52.54	6.60	34.25	33.06	265	323	Peak	VERTICAL
4	5694.40	111.70			103.60	6.81	34.41	33.12	265	323	Peak	VERTICAL
5	5707.60	101.56			93.44	6.83	34.42	33.13	265	323	Average	VERTICAL
6	5868.40	64.03	68.20	-4.17	55.72	6.97	34.52	33.18	265	323	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5710 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 138

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5666.00	110.58			102.52	6.79	34.39	33.12	300	20	Peak	VERTICAL
2	5683.00	97.34			89.25	6.81	34.40	33.12	300	20	Average	VERTICAL
3	5859.00	62.09	68.20	-6.11	53.78	6.97	34.52	33.18	300	20	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5690 MHz.

Note:

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

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

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 20, 2015		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5148.40	63.45	74.00	-10.55	56.55	6.21	33.74	33.05	264	0	Peak	VERTICAL
2	5148.80	51.00	54.00	-3.00	44.10	6.21	33.74	33.05	264	0	Average	VERTICAL
3	5185.60	104.12			97.14	6.24	33.79	33.05	264	0	Average	VERTICAL
4	5186.00	114.24			107.26	6.24	33.79	33.05	264	0	Peak	VERTICAL

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

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5112.00	49.93	54.00	-4.07	43.15	6.14	33.69	33.05	247	175	Average	VERTICAL
2	5116.80	61.45	74.00	-12.55	54.67	6.14	33.69	33.05	247	175	Peak	VERTICAL
3	5194.40	104.95			97.94	6.24	33.82	33.05	247	175	Average	VERTICAL
4	5195.20	114.59			107.55	6.27	33.82	33.05	247	175	Peak	VERTICAL

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

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5118.80	59.26	74.00	-14.74	52.45	6.17	33.69	33.05	259	0	Peak	VERTICAL
2	5150.00	47.27	54.00	-6.73	40.37	6.21	33.74	33.05	259	0	Average	VERTICAL
3	5233.40	104.88			97.76	6.30	33.87	33.05	259	0	Average	VERTICAL
4	5238.20	114.80			107.68	6.30	33.87	33.05	259	0	Peak	VERTICAL
5	5358.80	47.84	54.00	-6.16	40.37	6.47	34.06	33.06	259	0	Average	VERTICAL
6	5369.60	60.53	74.00	-13.47	53.03	6.47	34.09	33.06	259	0	Peak	VERTICAL

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

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52, 60, 64 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 20, 2015		

Channel 52

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5104.00	61.39	74.00	-12.61	54.64	6.14	33.66	33.05	298	320	Peak	VERTICAL
2	5108.00	47.92	54.00	-6.08	41.14	6.14	33.69	33.05	298	320	Average	VERTICAL
3	5265.60	105.94			98.73	6.34	33.93	33.06	298	320	Average	VERTICAL
4	5266.40	115.89			108.68	6.34	33.93	33.06	298	320	Peak	VERTICAL
5	5412.80	61.09	74.00	-12.91	53.45	6.53	34.17	33.06	298	320	Peak	VERTICAL
6	5424.00	48.64	54.00	-5.36	41.00	6.53	34.17	33.06	298	320	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5304.00	116.53			109.21	6.40	33.98	33.06	293	0	Peak	VERTICAL
2	5308.00	106.96			99.64	6.40	33.98	33.06	293	0	Average	VERTICAL
3	5358.80	49.54	54.00	-4.46	42.07	6.47	34.06	33.06	293	0	Average	VERTICAL
4	5377.60	63.37	74.00	-10.63	55.82	6.50	34.11	33.06	293	0	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5322.60	106.20			98.82	6.43	34.01	33.06	251	326	Average	VERTICAL
2	5323.20	118.15			110.77	6.43	34.01	33.06	251	326	Peak	VERTICAL
3	5353.60	52.64	54.00	-1.36	45.17	6.47	34.06	33.06	251	326	Average	VERTICAL
4	5356.80	72.95	74.00	-1.05	65.48	6.47	34.06	33.06	251	326	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100, 116, 140 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 20, 2015		

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5427.20	52.75	54.00	-1.25	45.08	6.56	34.17	33.06	250	329	Average	VERTICAL
2	5428.40	66.07	74.00	-7.93	58.40	6.56	34.17	33.06	250	329	Peak	VERTICAL
3	5465.60	65.00	74.00	-9.00	57.21	6.60	34.25	33.06	250	329	Peak	VERTICAL
4	5468.40	50.83	54.00	-3.17	43.04	6.60	34.25	33.06	250	329	Average	VERTICAL
5	5506.00	103.72			95.84	6.65	34.30	33.07	250	329	Average	VERTICAL
6	5506.80	116.54			108.66	6.65	34.30	33.07	250	329	Peak	VERTICAL

Item 5, 6 are the fundamental frequency at 5500 MHz.

Channel 116

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5425.20	52.82	54.00	-1.18	45.15	6.56	34.17	33.06	240	329	Average	VERTICAL
2	5427.60	63.81	74.00	-10.19	56.14	6.56	34.17	33.06	240	329	Peak	VERTICAL
3	5468.80	47.91	54.00	-6.09	40.12	6.60	34.25	33.06	240	329	Average	VERTICAL
4	5470.00	59.38	74.00	-14.62	51.59	6.60	34.25	33.06	240	329	Peak	VERTICAL
5	5582.40	114.13			106.15	6.72	34.35	33.09	240	329	Peak	VERTICAL
6	5583.60	102.71			94.73	6.72	34.35	33.09	240	329	Average	VERTICAL
7	5734.60	61.23	74.00	-12.77	53.07	6.86	34.44	33.14	240	329	Peak	VERTICAL
8	5738.40	49.56	54.00	-4.44	41.40	6.86	34.44	33.14	240	329	Average	VERTICAL

Item 5, 6 are the fundamental frequency at 5580 MHz.

Channel 140

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5694.40	113.41			105.31	6.81	34.41	33.12	250	112	Peak	VERTICAL
2	5696.80	103.27			95.17	6.81	34.41	33.12	250	112	Average	VERTICAL
3	5725.00	52.32	54.00	-1.68	44.19	6.83	34.43	33.13	250	112	Average	VERTICAL
4	5725.00	68.41	74.00	-5.59	60.28	6.83	34.43	33.13	250	112	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 20, 2015		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5713.20	64.73	68.20	-3.47	56.61	6.83	34.42	33.13	246	360	Peak	VERTICAL
2	5723.60	77.15	78.20	-1.05	69.02	6.83	34.43	33.13	246	360	Peak	VERTICAL
3	5737.20	101.74			93.58	6.86	34.44	33.14	246	360	Average	VERTICAL
4	5739.00	112.03			103.87	6.86	34.44	33.14	246	360	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5698.20	61.94	68.20	-6.26	53.84	6.81	34.41	33.12	250	112	Peak	VERTICAL
2	5721.80	62.06	78.20	-16.14	53.93	6.83	34.43	33.13	250	112	Peak	VERTICAL
3	5779.40	106.34			98.14	6.88	34.47	33.15	250	112	Average	VERTICAL
4	5779.40	116.20			108.00	6.88	34.47	33.15	250	112	Peak	VERTICAL
5	5854.80	62.18	78.20	-16.02	53.88	6.95	34.52	33.17	250	112	Peak	VERTICAL
6	5867.80	62.10	68.20	-6.10	53.79	6.97	34.52	33.18	250	112	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5816.80	105.29			97.04	6.92	34.49	33.16	248	114	Average	VERTICAL
2	5825.80	115.13			106.87	6.92	34.50	33.16	248	114	Peak	VERTICAL
3	5850.00	76.45	78.20	-1.75	68.16	6.95	34.51	33.17	248	114	Peak	VERTICAL
4	5860.60	64.89	68.20	-3.31	56.58	6.97	34.52	33.18	248	114	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 20, 2015		

Channel 38

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5149.60	65.34	74.00	-8.66	58.44	6.21	33.74	33.05	261	360	Peak	VERTICAL
2	5150.00	52.37	54.00	-1.63	45.47	6.21	33.74	33.05	261	360	Average	VERTICAL
3	5203.20	96.83			89.79	6.27	33.82	33.05	261	360	Average	VERTICAL
4	5204.40	107.40			100.36	6.27	33.82	33.05	261	360	Peak	VERTICAL

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

Channel 46

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5076.40	52.85	54.00	-1.15	46.16	6.11	33.63	33.05	250	360	Average	VERTICAL
2	5149.20	67.46	74.00	-6.54	60.56	6.21	33.74	33.05	250	360	Peak	VERTICAL
3	5213.20	112.56			105.49	6.27	33.85	33.05	250	360	Peak	VERTICAL
4	5214.00	103.13			96.06	6.27	33.85	33.05	250	360	Average	VERTICAL

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

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 20, 2015		

Channel 54

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5098.00	51.94	54.00	-2.06	45.19	6.14	33.66	33.05	245	301	Average	VERTICAL
2	5108.00	61.02	74.00	-12.98	54.24	6.14	33.69	33.05	245	301	Peak	VERTICAL
3	5258.00	103.03			95.85	6.34	33.90	33.06	245	301	Average	VERTICAL
4	5264.00	113.64			106.43	6.34	33.93	33.06	245	301	Peak	VERTICAL
5	5350.00	66.20	74.00	-7.80	58.73	6.47	34.06	33.06	245	301	Peak	VERTICAL
6	5414.00	52.61	54.00	-1.39	44.97	6.53	34.17	33.06	245	301	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5270 MHz.

Channel 62

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5326.00	95.98			88.60	6.43	34.01	33.06	254	301	Average	VERTICAL
2	5328.00	104.74			97.34	6.43	34.03	33.06	254	301	Peak	VERTICAL
3	5352.00	52.46	54.00	-1.54	44.99	6.47	34.06	33.06	254	301	Average	VERTICAL
4	5354.00	66.06	74.00	-7.94	58.59	6.47	34.06	33.06	254	301	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5310 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102, 110, 134 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 20, 2015		

Channel 102

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5459.60	49.10	54.00	-4.90	41.34	6.60	34.22	33.06	230	360	Average	VERTICAL
2	5459.60	62.67	74.00	-11.33	54.91	6.60	34.22	33.06	230	360	Peak	VERTICAL
3	5467.60	66.57	68.20	-1.63	58.78	6.60	34.25	33.06	230	360	Peak	VERTICAL
4	5492.80	96.33			88.49	6.63	34.27	33.06	230	360	Average	VERTICAL
5	5501.60	107.47			99.59	6.65	34.30	33.07	230	360	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5510 MHz.

Channel 110

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5394.00	52.91	54.00	-1.09	45.36	6.50	34.11	33.06	285	327	Average	VERTICAL
2	5394.00	63.74	74.00	-10.26	56.19	6.50	34.11	33.06	285	327	Peak	VERTICAL
3	5468.40	61.81	74.00	-12.19	54.02	6.60	34.25	33.06	285	327	Peak	VERTICAL
4	5469.20	50.81	54.00	-3.19	43.02	6.60	34.25	33.06	285	327	Average	VERTICAL
5	5535.60	103.02			95.10	6.68	34.32	33.08	285	327	Average	VERTICAL
6	5538.80	114.00			106.08	6.68	34.32	33.08	285	327	Peak	VERTICAL

Item 5, 6 are the fundamental frequency at 5550 MHz.

Channel 134

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5416.80	62.05	74.00	-11.95	54.41	6.53	34.17	33.06	250	360	Peak	VERTICAL
2	5436.00	50.52	54.00	-3.48	42.83	6.56	34.19	33.06	250	360	Average	VERTICAL
3	5470.00	48.20	54.00	-5.80	40.41	6.60	34.25	33.06	250	360	Average	VERTICAL
4	5470.00	59.69	74.00	-14.31	51.90	6.60	34.25	33.06	250	360	Peak	VERTICAL
5	5656.80	103.67			95.61	6.79	34.39	33.12	250	360	Average	VERTICAL
6	5656.80	113.24			105.18	6.79	34.39	33.12	250	360	Peak	VERTICAL
7	5725.00	69.33	74.00	-4.67	61.20	6.83	34.43	33.13	250	360	Peak	VERTICAL
8	5732.40	52.81	54.00	-1.19	44.66	6.86	34.43	33.14	250	360	Average	VERTICAL

Item 5, 6 are the fundamental frequency at 5670 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 21, 2015		

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5715.00	67.07	68.20	-1.13	58.95	6.83	34.42	33.13	254	111	Peak	VERTICAL
2	5717.40	72.79	78.20	-5.41	64.67	6.83	34.42	33.13	254	111	Peak	VERTICAL
3	5739.40	111.84			103.68	6.86	34.44	33.14	254	111	Peak	VERTICAL
4	5741.00	99.55			91.39	6.86	34.44	33.14	254	111	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5708.60	65.03	68.20	-3.17	56.91	6.83	34.42	33.13	245	356	Peak	VERTICAL
2	5721.80	66.95	78.20	-11.25	58.82	6.83	34.43	33.13	245	356	Peak	VERTICAL
3	5781.80	103.90			95.69	6.90	34.47	33.16	245	356	Average	VERTICAL
4	5783.00	114.43			106.22	6.90	34.47	33.16	245	356	Peak	VERTICAL
5	5852.60	75.04	78.20	-3.16	66.75	6.95	34.51	33.17	245	356	Peak	VERTICAL
6	5867.00	66.84	68.20	-1.36	58.53	6.97	34.52	33.18	245	356	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 58 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 21, 2015		

Channel 42

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5144.00	64.45	74.00	-9.55	57.55	6.21	33.74	33.05	300	357	Peak	VERTICAL
2	5148.00	52.62	54.00	-1.38	45.72	6.21	33.74	33.05	300	357	Average	VERTICAL
3	5178.00	96.13			89.15	6.24	33.79	33.05	300	357	Average	VERTICAL
4	5221.00	104.89			97.79	6.30	33.85	33.05	300	357	Peak	VERTICAL
5	5383.00	48.98	54.00	-5.02	41.43	6.50	34.11	33.06	300	357	Average	VERTICAL
6	5390.00	60.98	74.00	-13.02	53.43	6.50	34.11	33.06	300	357	Peak	VERTICAL

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

Channel 58

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5092.00	47.70	54.00	-6.30	40.98	6.11	33.66	33.05	255	355	Average	VERTICAL
2	5140.00	59.14	74.00	-14.86	52.28	6.17	33.74	33.05	255	355	Peak	VERTICAL
3	5258.00	93.76			86.58	6.34	33.90	33.06	255	355	Average	VERTICAL
4	5259.00	104.30			97.09	6.34	33.93	33.06	255	355	Peak	VERTICAL
5	5361.00	52.23	54.00	-1.77	44.73	6.47	34.09	33.06	255	355	Average	VERTICAL
6	5368.00	64.99	74.00	-9.01	57.49	6.47	34.09	33.06	255	355	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5290 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106, 122, 155 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 21, 2015		

Channel 106

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5448.00	64.74	74.00	-9.26	57.02	6.56	34.22	33.06	266	329	Peak	VERTICAL
2	5460.00	52.88	54.00	-1.12	45.12	6.60	34.22	33.06	266	329	Average	VERTICAL
3	5470.00	65.35	68.20	-2.85	57.56	6.60	34.25	33.06	266	329	Peak	VERTICAL
4	5507.00	107.68			99.80	6.65	34.30	33.07	266	329	Peak	VERTICAL
5	5537.00	94.87			86.95	6.68	34.32	33.08	266	329	Average	VERTICAL
6	5774.00	66.53	68.20	-1.67	58.33	6.88	34.47	33.15	266	329	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5530 MHz.

Channel 122

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5458.00	64.79	74.00	-9.21	57.03	6.60	34.22	33.06	283	329	Peak	VERTICAL
2	5459.00	52.52	54.00	-1.48	44.76	6.60	34.22	33.06	283	329	Average	VERTICAL
3	5463.00	66.85	68.20	-1.35	59.06	6.60	34.25	33.06	283	329	Peak	VERTICAL
4	5580.00	100.28			92.31	6.72	34.34	33.09	283	329	Average	VERTICAL
5	5587.00	113.76			105.78	6.72	34.35	33.09	283	329	Peak	VERTICAL
6	5751.00	62.70	68.20	-5.50	54.54	6.86	34.44	33.14	283	329	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5610 MHz.

Channel 155

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5712.00	66.79	68.20	-1.41	58.67	6.83	34.42	33.13	266	356	Peak	VERTICAL
2	5716.00	66.27	78.20	-11.93	58.15	6.83	34.42	33.13	266	356	Peak	VERTICAL
3	5742.00	108.61			100.45	6.86	34.44	33.14	266	356	Peak	VERTICAL
4	5743.00	96.39			88.23	6.86	34.44	33.14	266	356	Average	VERTICAL
5	5853.00	67.96	78.20	-10.24	59.67	6.95	34.51	33.17	266	356	Peak	VERTICAL
6	5865.00	64.88	68.20	-3.32	56.57	6.97	34.52	33.18	266	356	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5775 MHz.

Note:

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

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

Straddle Channel

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 20, 2015		

Channel 144

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5727.20	115.97			107.84	6.83	34.43	33.13	259	110	Peak	VERTICAL
2	5728.00	106.03			97.90	6.83	34.43	33.13	259	110	Average	VERTICAL
3	5888.00	65.74	68.20	-2.46	57.40	6.99	34.54	33.19	259	110	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5720 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 20, 2015		

Channel 142

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5693.00	115.49			107.39	6.81	34.41	33.12	250	112	Peak	VERTICAL
2	5699.00	104.82			96.72	6.81	34.41	33.12	250	112	Average	VERTICAL
3	5858.00	65.15	68.20	-3.05	56.84	6.97	34.52	33.18	250	112	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5710 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 21, 2015		

Channel 138

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5689.00	98.34			90.24	6.81	34.41	33.12	255	360	Average	VERTICAL
2	5702.00	108.29			100.18	6.81	34.42	33.12	255	360	Peak	VERTICAL
3	5877.00	61.96	68.20	-6.24	53.64	6.97	34.53	33.18	255	360	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5690 MHz.

Note:

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

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

4.8. Frequency Stability Measurement

4.8.1. Limit

In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification).

4.8.2. Measuring Instruments and Setting

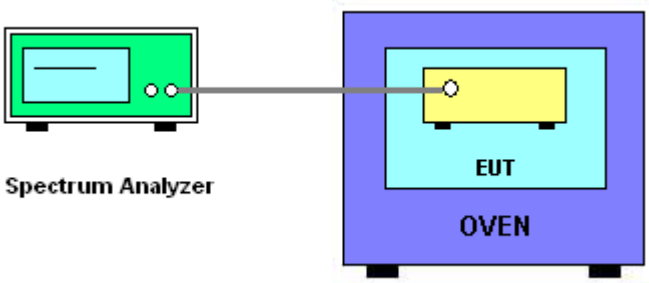
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto

4.8.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. fc is declaring of channel frequency. Then the frequency error formula is (fc-f)/fc × 10^6 ppm and the limit is less than ±20ppm (IEEE 802.11nspecification).
6. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
7. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
8. Extreme temperature is 0°C~50°C.

4.8.4. Test Setup Layout



4.8.5. Test Deviation

There is no deviation with the original standard.

4.8.6. EUT Operation during Test

The EUT was programmed to be in continuously un-modulation transmitting mode.

4.8.7. Test Result of Frequency Stability

Temperature	24°C	Humidity	65%
Test Engineer	Roki Liu	Test Date	Oct. 14, 2015

Mode: 20 MHz / Chain 1

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5199.9654	5199.9640	5199.9622	5199.9601
110.00	5199.9642	5199.9629	5199.9613	5199.9594
93.50	5199.9628	5199.9617	5199.9605	5199.9583
Max. Deviation (MHz)	0.0372	0.0383	0.0395	0.0417
Max. Deviation (ppm)	7.15	7.37	7.60	8.02
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5199.9667	5199.9655	5199.9636	5199.9614
10	5199.9654	5199.9641	5199.9626	5199.9608
20	5199.9642	5199.9629	5199.9613	5199.9594
30	5199.9628	5199.9617	5199.9603	5199.9587
40	5199.9612	5199.9597	5199.9581	5199.9561
50	5199.9595	5199.9583	5199.9568	5199.9541
Max. Deviation (MHz)	0.0405	0.0417	0.0432	0.0459
Max. Deviation (ppm)	7.79	8.02	8.31	8.83
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5300 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5299.9669	5299.9655	5299.9637	5299.9616
110.00	5299.9657	5299.9644	5299.9628	5299.9609
93.50	5299.9643	5299.9632	5299.9620	5299.9598
Max. Deviation (MHz)	0.0357	0.0368	0.0380	0.0402
Max. Deviation (ppm)	6.73	6.94	7.16	7.58
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5300 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5299.9682	5299.9670	5299.9651	5299.9629
10	5299.9669	5299.9656	5299.9641	5299.9623
20	5299.9657	5299.9644	5299.9628	5299.9609
30	5299.9643	5299.9632	5299.9618	5299.9602
40	5299.9627	5299.9612	5299.9596	5299.9576
50	5299.9610	5299.9598	5299.9583	5299.9556
Max. Deviation (MHz)	0.0390	0.0402	0.0417	0.0444
Max. Deviation (ppm)	7.36	7.58	7.87	8.38
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5580 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5579.9668	5579.9654	5579.9636	5579.9615
110.00	5579.9656	5579.9643	5579.9627	5579.9608
93.50	5579.9642	5579.9631	5579.9619	5579.9597
Max. Deviation (MHz)	0.0358	0.0369	0.0381	0.0403
Max. Deviation (ppm)	6.41	6.61	6.82	7.22
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5580 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5579.9688	5579.9676	5579.9657	5579.9635
10	5579.9675	5579.9662	5579.9647	5579.9629
20	5579.9663	5579.9650	5579.9634	5579.9615
30	5579.9649	5579.9638	5579.9624	5579.9608
40	5579.9633	5579.9618	5579.9602	5579.9582
50	5579.9616	5579.9604	5579.9589	5579.9562
Max. Deviation (MHz)	0.0384	0.0396	0.0411	0.0438
Max. Deviation (ppm)	6.88	7.10	7.37	7.85
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5784.9867	5784.9853	5784.9835	5784.9814
110.00	5784.9855	5784.9842	5784.9826	5784.9807
93.50	5784.9841	5784.9830	5784.9818	5784.9796
Max. Deviation (MHz)	0.0159	0.0170	0.0182	0.0204
Max. Deviation (ppm)	2.75	2.94	3.15	3.53
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5784.9880	5784.9868	5784.9849	5784.9827
10	5784.9867	5784.9854	5784.9839	5784.9821
20	5784.9855	5784.9842	5784.9826	5784.9807
30	5784.9841	5784.9830	5784.9816	5784.9800
40	5784.9825	5784.9810	5784.9794	5784.9774
50	5784.9808	5784.9796	5784.9781	5784.9754
Max. Deviation (MHz)	0.0192	0.0204	0.0219	0.0246
Max. Deviation (ppm)	3.32	3.53	3.79	4.25
Result	Complies			

Mode: 40 MHz / Chain 1

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5189.9758	5189.9744	5189.9726	5189.9705
110.00	5189.9746	5189.9733	5189.9717	5189.9698
93.50	5189.9732	5189.9721	5189.9709	5189.9687
Max. Deviation (MHz)	0.0268	0.0279	0.0291	0.0313
Max. Deviation (ppm)	5.16	5.38	5.61	6.03
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5189.9771	5189.9759	5189.9740	5189.9718
10	5189.9758	5189.9745	5189.9730	5189.9712
20	5189.9746	5189.9733	5189.9717	5189.9698
30	5189.9732	5189.9721	5189.9707	5189.9691
40	5189.9716	5189.9701	5189.9685	5189.9665
50	5189.9699	5189.9687	5189.9672	5189.9645
Max. Deviation (MHz)	0.0301	0.0313	0.0328	0.0355
Max. Deviation (ppm)	5.80	6.03	6.32	6.84
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5310 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5309.9865	5309.9851	5309.9833	5309.9812
110.00	5309.9853	5309.9840	5309.9824	5309.9805
93.50	5309.9839	5309.9828	5309.9816	5309.9794
Max. Deviation (MHz)	0.0161	0.0172	0.0184	0.0206
Max. Deviation (ppm)	3.03	3.24	3.47	3.88
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5310 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5309.9878	5309.9866	5309.9847	5309.9825
10	5309.9865	5309.9852	5309.9837	5309.9819
20	5309.9853	5309.9840	5309.9824	5309.9805
30	5309.9839	5309.9828	5309.9814	5309.9798
40	5309.9823	5309.9808	5309.9792	5309.9772
50	5309.9806	5309.9794	5309.9779	5309.9752
Max. Deviation (MHz)	0.0194	0.0206	0.0221	0.0248
Max. Deviation (ppm)	3.65	3.88	4.16	4.67
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5550 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5549.9689	5549.9675	5549.9657	5549.9636
110.00	5549.9677	5549.9664	5549.9648	5549.9629
93.50	5549.9663	5549.9652	5549.9640	5549.9618
Max. Deviation (MHz)	0.0337	0.0348	0.0360	0.0382
Max. Deviation (ppm)	6.07	6.27	6.49	6.88
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5550 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5549.9702	5549.9690	5549.9671	5549.9649
10	5549.9689	5549.9676	5549.9661	5549.9643
20	5549.9677	5549.9664	5549.9648	5549.9629
30	5549.9663	5549.9652	5549.9638	5549.9622
40	5549.9647	5549.9632	5549.9616	5549.9596
50	5549.9630	5549.9618	5549.9603	5549.9576
Max. Deviation (MHz)	0.0370	0.0382	0.0397	0.0424
Max. Deviation (ppm)	6.67	6.88	7.15	7.64
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5754.9797	5754.9783	5754.9765	5754.9744
110.00	5754.9785	5754.9772	5754.9756	5754.9737
93.50	5754.9771	5754.9760	5754.9748	5754.9726
Max. Deviation (MHz)	0.0229	0.0240	0.0252	0.0274
Max. Deviation (ppm)	3.98	4.17	4.38	4.76
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5754.9810	5754.9798	5754.9779	5754.9757
10	5754.9797	5754.9784	5754.9769	5754.9751
20	5754.9785	5754.9772	5754.9756	5754.9737
30	5754.9771	5754.9760	5754.9746	5754.9730
40	5754.9755	5754.9740	5754.9724	5754.9704
50	5754.9738	5754.9726	5754.9711	5754.9684
Max. Deviation (MHz)	0.0262	0.0274	0.0289	0.0316
Max. Deviation (ppm)	4.55	4.76	5.02	5.49
Result	Complies			

Mode: 80 MHz / Chain 1

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5209.9690	5209.9676	5209.9658	5209.9637
110.00	5209.9678	5209.9665	5209.9649	5209.9630
93.50	5209.9664	5209.9653	5209.9641	5209.9619
Max. Deviation (MHz)	0.0336	0.0347	0.0359	0.0381
Max. Deviation (ppm)	6.45	6.66	6.89	7.31
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5209.9703	5209.9691	5209.9672	5209.9650
10	5209.9690	5209.9677	5209.9662	5209.9644
20	5209.9678	5209.9665	5209.9649	5209.9630
30	5209.9664	5209.9653	5209.9639	5209.9623
40	5209.9648	5209.9633	5209.9617	5209.9597
50	5209.9631	5209.9619	5209.9604	5209.9577
Max. Deviation (MHz)	0.0369	0.0381	0.0396	0.0423
Max. Deviation (ppm)	7.08	7.31	7.60	8.12
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5290 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5289.9856	5289.9842	5289.9824	5289.9803
110.00	5289.9844	5289.9831	5289.9815	5289.9796
93.50	5289.9830	5289.9819	5289.9807	5289.9785
Max. Deviation (MHz)	0.0181	0.0193	0.0215	0.0181
Max. Deviation (ppm)	3.42	3.65	4.06	3.42
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5290 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5289.9869	5289.9857	5289.9838	5289.9816
10	5289.9856	5289.9843	5289.9828	5289.9810
20	5289.9844	5289.9831	5289.9815	5289.9796
30	5289.9830	5289.9819	5289.9805	5289.9789
40	5289.9814	5289.9799	5289.9783	5289.9763
50	5289.9797	5289.9785	5289.9770	5289.9743
Max. Deviation (MHz)	0.0203	0.0215	0.0230	0.0257
Max. Deviation (ppm)	3.84	4.06	4.35	4.86
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5530 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5529.9876	5529.9862	5529.9844	5529.9823
110.00	5529.9864	5529.9851	5529.9835	5529.9816
93.50	5529.9850	5529.9839	5529.9827	5529.9805
Max. Deviation (MHz)	0.0150	0.0161	0.0173	0.0195
Max. Deviation (ppm)	2.71	2.91	3.13	3.53
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5530 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5529.9889	5529.9877	5529.9858	5529.9836
10	5529.9876	5529.9863	5529.9848	5529.9830
20	5529.9864	5529.9851	5529.9835	5529.9816
30	5529.9850	5529.9839	5529.9825	5529.9809
40	5529.9834	5529.9819	5529.9803	5529.9783
50	5529.9817	5529.9805	5529.9790	5529.9763
Max. Deviation (MHz)	0.0183	0.0195	0.0210	0.0237
Max. Deviation (ppm)	3.31	3.53	3.80	4.29
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5774.9768	5774.9754	5774.9736	5774.9715
110.00	5774.9756	5774.9743	5774.9727	5774.9708
93.50	5774.9742	5774.9731	5774.9719	5774.9697
Max. Deviation (MHz)	0.0258	0.0269	0.0281	0.0303
Max. Deviation (ppm)	4.47	4.66	4.87	5.25
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5774.9781	5774.9769	5774.9750	5774.9728
10	5774.9768	5774.9755	5774.9740	5774.9722
20	5774.9756	5774.9743	5774.9727	5774.9708
30	5774.9742	5774.9731	5774.9717	5774.9701
40	5774.9726	5774.9711	5774.9695	5774.9675
50	5774.9709	5774.9697	5774.9682	5774.9655
Max. Deviation (MHz)	0.0291	0.0303	0.0318	0.0345
Max. Deviation (ppm)	5.04	5.25	5.51	5.97
Result	Complies			

4.9. Antenna Requirements

4.9.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

4.9.2. Antenna Connector Construction

Please refer to section 3.3 in this test report; antenna connector complied with the requirements.

5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Test Receiver	R&S	ESCS 30	100355	9kHz ~ 2.75GHz	Apr. 22, 2015	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 02, 2014	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 02, 2014	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	Dec. 03, 2014	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA	Schaffner	CBL6112D	22021	20MHz ~ 2GHz	May 06, 2015	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 12, 2015*	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Oct. 28, 2014	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2015	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Feb. 24, 2015	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 12, 2015	Radiation (03CH01-CB)
Pre-Amplifier	WM	TF-130N-R1	923365	26GHz ~ 40GHz	Nov. 25, 2014	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 06, 2014	Radiation (03CH01-CB)
EMI Receiver	Agilent	N9038A	MY52260123	9kHz ~ 8.4GHz	Jan. 21, 2015	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz ~ 1 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	1 GHz ~ 40 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	1 GHz ~ 40 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 12, 2014	Conducted (TH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 09, 2015	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz – 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz – 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
RF Cable-high	Woken	RG402	High Cable-8	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz – 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 03, 2014	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 02, 2015	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.

"*" Calibration Interval of instruments listed above is two years.

N.C.R. means Non-Calibration required.

6. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%