

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 CH 100, 140 / Chain 1 + Chain 2 + Chain 3
Test Date	Dec. 08, 2014	Test Mode	Mode 3 (Ant. 4 Panel antenna / 9.2dBi)

Channel 100

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		deg	cm	
1	5413.40	65.29	74.00	-8.71	61.87	4.38	33.57	34.53	Peak	2	173	VERTICAL
2	5426.14	53.98	54.00	-0.02	50.56	4.38	33.57	34.53	Average	2	173	VERTICAL
3	5468.26	57.57	74.00	-16.43	54.04	4.41	33.65	34.53	Peak	2	173	VERTICAL
4	5470.00	45.22	54.00	-8.78	41.69	4.41	33.65	34.53	Average	2	173	VERTICAL
5	5501.45	114.88			111.29	4.42	33.70	34.53	Peak	2	173	VERTICAL
6	5506.37	102.68			99.09	4.42	33.70	34.53	Average	2	173	VERTICAL

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

Channel 140

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		deg	cm	
1	5701.45	113.29			109.05	4.49	34.32	34.57	Peak	5	164	VERTICAL
2	5702.03	102.67			98.43	4.49	34.32	34.57	Average	5	164	VERTICAL
3	5778.55	64.70	74.00	-9.30	60.23	4.52	34.53	34.58	Peak	5	164	VERTICAL
4	5782.31	53.51	54.00	-0.49	49.05	4.52	34.53	34.59	Average	5	164	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3
Test Date	Dec. 08, 2014	Test Mode	Mode 3 (Ant. 4 Panel antenna / 9.2dBi)

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5671.15	67.48	68.20	-0.72	63.34	4.48	34.22	34.56	Peak	5	164 VERTICAL
2	5725.00	77.34	78.20	-0.86	73.05	4.50	34.37	34.58	Peak	5	164 VERTICAL
3	5747.17	115.21			110.87	4.50	34.42	34.58	Peak	5	164 VERTICAL
4	5747.17	104.49			100.15	4.50	34.42	34.58	Average	5	164 VERTICAL

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

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5703.29	67.38	68.20	-0.82	63.14	4.49	34.32	34.57	Peak	4	168 VERTICAL
2	5725.00	58.24	78.20	-19.96	53.95	4.50	34.37	34.58	Peak	4	168 VERTICAL
3	5783.70	116.91			112.45	4.52	34.53	34.59	Peak	4	168 VERTICAL
4	5787.17	106.20			101.69	4.52	34.58	34.59	Average	4	168 VERTICAL
5	5856.95	68.07	78.20	-10.13	63.33	4.55	34.79	34.60	Peak	4	168 VERTICAL
6	5863.47	67.94	68.20	-0.26	63.20	4.55	34.79	34.60	Peak	4	168 VERTICAL

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

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	CableLoss	Antenna Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		deg	cm	
1	5822.83	117.42			112.81	4.53	34.68	34.60	Peak	7	162	VERTICAL
2	5822.83	106.95			102.34	4.53	34.68	34.60	Average	7	162	VERTICAL
3	5850.00	75.45	78.20	-2.75	70.78	4.54	34.73	34.60	Peak	7	162	VERTICAL
4	5902.98	67.92	68.20	-0.28	63.08	4.56	34.89	34.61	Peak	7	162	VERTICAL

Item 3, 4 are the fundamental frequency at 5825 MHz.

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3
Test Date	Dec. 11, 2014	Test Mode	Mode 3 (Ant. 4 Panel antenna / 9.2dBi)

Channel 38

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	5150.00	53.79	54.00	-0.21	48.85	6.13	34.01	35.20	Average	197	6 VERTICAL
2	5150.00	67.12	74.00	-6.88	62.18	6.13	34.01	35.20	Peak	197	6 VERTICAL
3	5193.00	99.09			94.05	6.16	34.08	35.20	Average	197	6 VERTICAL
4	5193.00	110.02			104.98	6.16	34.08	35.20	Peak	197	6 VERTICAL

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

Channel 46

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	5142.80	53.86	54.00	-0.14	48.95	6.13	33.98	35.20	Average	146	5 VERTICAL
2	5145.20	66.45	74.00	-7.55	61.51	6.13	34.01	35.20	Peak	146	5 VERTICAL
3	5218.00	113.61			108.49	6.17	34.15	35.20	Peak	146	5 VERTICAL
4	5233.00	101.82			96.66	6.18	34.18	35.20	Average	146	5 VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62 / Chain 1 + Chain 2 + Chain 3
Test Date	Dec. 11, 2014	Test Mode	Mode 3 (Ant. 4 Panel antenna / 9.2dBi)

Channel 54

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5257.00	102.61			97.39	6.20	34.22	35.20	Average	173	2	VERTICAL
2	5265.00	113.98			108.72	6.21	34.25	35.20	Peak	173	2	VERTICAL
3	5353.00	53.91	54.00	-0.09	48.43	6.26	34.42	35.20	Average	173	2	VERTICAL
4	5363.00	63.82	74.00	-10.18	58.33	6.27	34.42	35.20	Peak	173	2	VERTICAL

Item 1, 2 are the fundamental frequency at 5270 MHz.

Channel 62

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5296.80	111.78			106.43	6.23	34.32	35.20	Peak	160	0	VERTICAL
2	5297.20	100.16			94.81	6.23	34.32	35.20	Average	160	0	VERTICAL
3	5350.00	53.82	54.00	-0.18	48.34	6.26	34.42	35.20	Average	160	0	VERTICAL
4	5352.80	68.26	74.00	-5.74	62.78	6.26	34.42	35.20	Peak	160	0	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102, 110, 134 / Chain 1 + Chain 2 + Chain 3
Test Date	Dec. 11, 2014	Test Mode	Mode 3 (Ant. 4 Panel antenna / 9.2dBi)

Channel 102

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	5412.00	51.91	54.00	-2.09	46.27	6.31	34.53	35.20	Average	177	2	VERTICAL
2	5460.00	63.40	74.00	-10.60	57.64	6.33	34.63	35.20	Peak	177	2	VERTICAL
3	5467.00	69.08	74.00	-4.92	63.31	6.34	34.63	35.20	Peak	177	2	VERTICAL
4	5470.00	53.60	54.00	-0.40	47.79	6.34	34.67	35.20	Average	177	2	VERTICAL
5	5507.60	98.11			92.24	6.36	34.71	35.20	Average	177	2	VERTICAL
6	5507.60	109.28			103.41	6.36	34.71	35.20	Peak	177	2	VERTICAL

Item 5, 6 are the fundamental frequency at 5510 MHz.

Channel 110

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	5456.40	64.39	74.00	-9.61	58.63	6.33	34.63	35.20	Peak	156	0	VERTICAL
2	5457.00	53.88	54.00	-0.12	48.12	6.33	34.63	35.20	Average	156	0	VERTICAL
3	5464.60	64.72	74.00	-9.28	58.95	6.34	34.63	35.20	Peak	156	0	VERTICAL
4	5467.00	53.75	54.00	-0.25	47.98	6.34	34.63	35.20	Average	156	0	VERTICAL
5	5544.60	113.31			107.40	6.37	34.74	35.20	Peak	156	0	VERTICAL
6	5554.80	102.04			96.11	6.38	34.75	35.20	Average	156	0	VERTICAL

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

Channel 134

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	5667.00	103.66			97.60	6.43	34.83	35.20	Average	164	0	VERTICAL
2	5667.00	115.27			109.21	6.43	34.83	35.20	Peak	164	0	VERTICAL
3	5726.40	68.11	68.20	-0.09	61.97	6.45	34.89	35.20	Peak	164	0	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3
Test Date	Dec. 07, 2014	Test Mode	Mode 3 (Ant. 4 Panel antenna / 9.2dBi)

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		deg	cm	
1	5712.40	68.11	68.20	-0.09	63.66	4.71	34.32	34.58	Peak	360	186	VERTICAL
2	5723.84	75.58	78.20	-2.62	71.07	4.72	34.37	34.58	Peak	360	186	VERTICAL
3	5749.79	95.95			91.38	4.73	34.42	34.58	Average	360	186	VERTICAL
4	5759.05	109.15			104.51	4.74	34.48	34.58	Average	360	186	VERTICAL

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

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	CableLoss	Antenna Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		deg	cm	
1	5708.92	67.50	68.20	-0.70	63.05	4.71	34.32	34.58	Peak	360	176	VERTICAL
2	5724.13	69.33	78.20	-8.87	64.82	4.72	34.37	34.58	Peak	360	176	VERTICAL
3	5788.92	113.61			108.86	4.76	34.58	34.59	Peak	360	176	VERTICAL
4	5798.80	101.42			96.67	4.76	34.58	34.59	Average	360	176	VERTICAL
5	5850.00	69.00	78.20	-9.20	64.07	4.80	34.73	34.60	Peak	360	176	VERTICAL
6	5868.68	67.96	68.20	-0.24	62.96	4.81	34.79	34.60	Peak	360	176	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3
Test Date	Dec. 08, 2014	Test Mode	Mode 3 (Ant. 4 Panel antenna / 9.2dBi)

Channel 38

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		T/Pos	A/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	deg	cm	Pol/Phase
1	5150.00	69.64	74.00	-4.36	66.77	4.26	33.14	34.53	Peak	0	171	VERTICAL
2	5150.00	53.96	54.00	-0.04	51.09	4.26	33.14	34.53	Average	0	171	VERTICAL
3	5194.63	97.27			94.30	4.28	33.22	34.53	Average	0	171	VERTICAL
4	5200.42	110.05			107.08	4.28	33.22	34.53	Peak	0	171	VERTICAL

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

Channel 46

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		T/Pos	A/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	deg	cm	Pol/Phase
1	5143.63	64.69	74.00	-9.31	61.82	4.26	33.14	34.53	Peak	0	183	VERTICAL
2	5145.95	53.83	54.00	-0.17	50.96	4.26	33.14	34.53	Average	0	183	VERTICAL
3	5227.11	113.67			110.63	4.30	33.27	34.53	Peak	0	183	VERTICAL
4	5233.47	103.49			100.45	4.30	33.27	34.53	Average	0	183	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 CH 54, 62 / Chain 1 + Chain 2 + Chain 3
Test Date	Dec. 08, 2014	Test Mode	Mode 3 (Ant. 4 Panel antenna / 9.2dBi)

Channel 54

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	deg	cm
1	5273.47	104.28			101.17	4.31	33.33	34.53	Average	1	184 VERTICAL
2	5275.79	114.31			111.17	4.32	33.35	34.53	Peak	1	184 VERTICAL
3	5354.05	53.76	54.00	-0.24	50.48	4.35	33.46	34.53	Average	1	184 VERTICAL
4	5355.79	64.43	74.00	-9.57	61.15	4.35	33.46	34.53	Peak	1	184 VERTICAL

Item 1, 2 are the fundamental frequency at 5270 MHz.

Channel 62

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	deg	cm
1	5305.95	111.40			108.22	4.33	33.38	34.53	Peak	1	158 VERTICAL
2	5306.53	100.73			97.55	4.33	33.38	34.53	Average	1	158 VERTICAL
3	5350.00	53.92	54.00	-0.08	50.64	4.35	33.46	34.53	Average	1	158 VERTICAL
4	5350.58	66.81	74.00	-7.19	63.53	4.35	33.46	34.53	Peak	1	158 VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 CH 102, 110, 134 / Chain 1 + Chain 2 + Chain 3
Test Date	Dec. 08, 2014	Test Mode	Mode 3 (Ant. 4 Panel antenna / 9.2dBi)

Channel 102

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5426.43	51.67	54.00	-2.33	48.25	4.38	33.57	34.53	2	173	VERTICAL
2	5427.00	62.58	74.00	-11.42	59.16	4.38	33.57	34.53	2	173	VERTICAL
3	5465.95	67.70	74.00	-6.30	64.17	4.41	33.65	34.53	2	173	VERTICAL
4	5470.00	53.98	54.00	-0.02	50.45	4.41	33.65	34.53	2	173	VERTICAL
5	5505.95	109.74			106.15	4.42	33.70	34.53	2	173	VERTICAL
6	5506.53	99.38			95.79	4.42	33.70	34.53	2	173	VERTICAL

Item 5, 6 are the fundamental frequency at 5510 MHz.

Channel 110

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5453.05	63.52	74.00	-10.48	60.03	4.40	33.62	34.53	2	158	VERTICAL
2	5456.53	52.84	54.00	-1.16	49.35	4.40	33.62	34.53	2	158	VERTICAL
3	5466.53	65.10	74.00	-8.90	61.57	4.41	33.65	34.53	2	158	VERTICAL
4	5466.53	53.98	54.00	-0.02	50.45	4.41	33.65	34.53	2	158	VERTICAL
5	5546.53	112.84			109.15	4.43	33.80	34.54	2	158	VERTICAL
6	5546.53	102.65			98.96	4.43	33.80	34.54	2	158	VERTICAL

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

Channel 134

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5666.53	112.40			108.26	4.48	34.22	34.56	1	168	VERTICAL
2	5666.53	102.18			98.04	4.48	34.22	34.56	1	168	VERTICAL
3	5746.42	53.90	54.00	-0.10	49.56	4.50	34.42	34.58	1	168	VERTICAL
4	5755.68	64.97	74.00	-9.03	60.56	4.51	34.48	34.58	1	168	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3
Test Date	Dec. 08, 2014	Test Mode	Mode 3 (Ant. 4 Panel antenna / 9.2dBi)

Channel 151

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp			T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	deg	cm	
1	5714.42	68.02	68.20	-0.18	63.79	4.49	34.32	34.58	Peak	5	159	VERTICAL
2	5722.68	73.71	78.20	-4.49	69.42	4.50	34.37	34.58	Peak	5	159	VERTICAL
3	5746.32	108.99			104.65	4.50	34.42	34.58	Peak	5	159	VERTICAL
4	5747.47	98.13			93.79	4.50	34.42	34.58	Average	5	159	VERTICAL

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

Channel 159

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp			T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	deg	cm	
1	5712.68	67.46	68.20	-0.74	63.23	4.49	34.32	34.58	Peak	5	172	VERTICAL
2	5725.00	68.60	78.20	-9.60	64.31	4.50	34.37	34.58	Peak	5	172	VERTICAL
3	5787.47	104.82			100.31	4.52	34.58	34.59	Average	5	172	VERTICAL
4	5790.37	116.29			111.78	4.52	34.58	34.59	Peak	5	172	VERTICAL
5	5850.58	75.36	78.20	-2.84	70.69	4.54	34.73	34.60	Peak	5	172	VERTICAL
6	5872.74	68.14	68.20	-0.06	63.35	4.55	34.84	34.60	Peak	5	172	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 58, 106 / Chain 1 + Chain 2 + Chain 3
Test Date	Dec. 11, 2014	Test Mode	Mode 3 (Ant. 4 Panel antenna / 9.2dBi)

Channel 42

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5143.00	53.78	54.00	-0.22	48.87	6.13	33.98	35.20	Average	163	5	VERTICAL
2	5143.00	64.62	74.00	-9.38	59.71	6.13	33.98	35.20	Peak	163	5	VERTICAL
3	5202.00	105.97			100.90	6.16	34.11	35.20	Peak	163	5	VERTICAL
4	5218.00	96.85			91.73	6.17	34.15	35.20	Average	163	5	VERTICAL

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

Channel 58

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5297.80	97.81			92.46	6.23	34.32	35.20	Average	157	3	VERTICAL
2	5301.40	106.65			101.30	6.23	34.32	35.20	Peak	157	3	VERTICAL
3	5353.00	53.86	54.00	-0.14	48.38	6.26	34.42	35.20	Average	157	3	VERTICAL
4	5356.00	66.47	74.00	-7.53	60.99	6.26	34.42	35.20	Peak	157	3	VERTICAL

Item 1, 2 are the fundamental frequency at 5290 MHz.

Channel 106

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5441.20	65.30	74.00	-8.70	59.58	6.32	34.60	35.20	Peak	172	1	VERTICAL
2	5459.60	53.27	54.00	-0.73	47.51	6.33	34.63	35.20	Average	172	1	VERTICAL
3	5465.20	67.99	74.00	-6.01	62.22	6.34	34.63	35.20	Peak	172	1	VERTICAL
4	5467.60	53.87	54.00	-0.13	48.06	6.34	34.67	35.20	Average	172	1	VERTICAL
5	5502.00	94.83			88.96	6.36	34.71	35.20	Average	172	1	VERTICAL
6	5540.00	104.80			98.89	6.37	34.74	35.20	Peak	172	1	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH, 122, 138, 155 / Chain 1 + Chain 2 + Chain 3
Test Date	Dec. 07, 2014	Test Mode	Mode 3 (Ant. 4 Panel antenna / 9.2dBi)

Channel 122

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp			T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	deg	cm	
1	5454.21	67.05	74.00	-6.95	63.42	4.54	33.62	34.53	Peak	360	182	VERTICAL
2	5460.00	49.85	54.00	-4.15	46.22	4.54	33.62	34.53	Average	360	182	VERTICAL
3	5467.11	67.82	74.00	-6.18	64.15	4.55	33.65	34.53	Peak	360	182	VERTICAL
4	5470.00	50.05	54.00	-3.95	46.38	4.55	33.65	34.53	Average	360	182	VERTICAL
5	5581.78	96.93			92.89	4.63	33.96	34.55	Average	360	182	VERTICAL
6	5583.95	111.90			107.86	4.63	33.96	34.55	Peak	360	182	VERTICAL
7	5725.00	52.59	54.00	-1.41	48.08	4.72	34.37	34.58	Average	360	182	VERTICAL
8	5730.79	67.35	74.00	-6.65	62.84	4.72	34.37	34.58	Peak	360	182	VERTICAL

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

Channel 138

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp			T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	deg	cm	
1	5460.00	58.54	74.00	-15.46	54.91	4.54	33.62	34.53	Peak	360	181	VERTICAL
2	5460.00	47.68	54.00	-6.32	44.05	4.54	33.62	34.53	Average	360	181	VERTICAL
3	5470.00	58.96	74.00	-15.04	55.29	4.55	33.65	34.53	Peak	360	181	VERTICAL
4	5470.00	47.59	54.00	-6.41	43.92	4.55	33.65	34.53	Average	360	181	VERTICAL
5	5674.08	111.43			107.09	4.68	34.22	34.56	Peak	360	181	VERTICAL
6	5683.49	96.51			92.18	4.68	34.22	34.57	Average	360	181	VERTICAL
7	5850.00	49.34	54.00	-4.66	44.41	4.80	34.73	34.60	Average	360	181	VERTICAL
8	5856.51	61.51	74.00	-12.49	56.51	4.81	34.79	34.60	Peak	360	181	VERTICAL

Item 5, 6 are the fundamental frequency at 5690 MHz.

Channel 155

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp			T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	deg	cm	
1	5688.23	67.99	68.20	-0.21	63.59	4.70	34.27	34.57	Peak	0	178	VERTICAL
2	5719.21	71.54	78.20	-6.66	67.03	4.72	34.37	34.58	Peak	0	178	VERTICAL
3	5759.08	104.05			99.41	4.74	34.48	34.58	Average	0	178	VERTICAL
4	5759.80	89.77			85.13	4.74	34.48	34.58	Peak	0	178	VERTICAL
5	5858.68	66.41	78.20	-11.79	61.41	4.81	34.79	34.60	Peak	0	178	VERTICAL
6	5860.00	66.35	68.20	-1.85	61.35	4.81	34.79	34.60	Peak	0	178	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss3 VHT80 CH 42, 58, 106 / Chain 1 + Chain 2 + Chain 3
Test Date	Dec. 08, 2014 / Dec. 09, 2014	Test Mode	Mode 3 (Ant. 4 Panel antenna / 9.2dBi)

Channel 42

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5142.76	68.84	74.00	-5.16	65.97	4.26	33.14	34.53	Peak	358	178 VERTICAL
2	5148.55	53.93	54.00	-0.07	51.06	4.26	33.14	34.53	Average	358	178 VERTICAL
3	5203.49	105.86			102.89	4.28	33.22	34.53	Peak	358	178 VERTICAL
4	5213.62	95.84			92.83	4.29	33.25	34.53	Average	358	178 VERTICAL
5	5351.45	48.68	54.00	-5.32	45.40	4.35	33.46	34.53	Average	358	178 VERTICAL
6	5371.71	60.57	74.00	-13.43	57.25	4.36	33.49	34.53	Peak	358	178 VERTICAL

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

Channel 58

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5149.28	59.62	74.00	-14.38	56.75	4.26	33.14	34.53	Peak	8	174 VERTICAL
2	5150.00	47.41	54.00	-6.59	44.54	4.26	33.14	34.53	Average	8	174 VERTICAL
3	5277.70	94.67			91.53	4.32	33.35	34.53	Average	8	174 VERTICAL
4	5279.87	108.03			104.89	4.32	33.35	34.53	Peak	8	174 VERTICAL
5	5350.00	70.37	74.00	-3.63	67.09	4.35	33.46	34.53	Peak	8	174 VERTICAL
6	5350.00	53.75	54.00	-0.25	50.47	4.35	33.46	34.53	Average	8	174 VERTICAL

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

Channel 106

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5442.18	67.65	74.00	-6.35	64.20	4.39	33.59	34.53	Peak	8	168 VERTICAL
2	5457.56	53.36	54.00	-0.64	49.87	4.40	33.62	34.53	Average	8	168 VERTICAL
3	5462.69	67.89	74.00	-6.11	64.36	4.41	33.65	34.53	Peak	8	168 VERTICAL
4	5467.82	53.81	54.00	-0.19	50.28	4.41	33.65	34.53	Average	8	168 VERTICAL
5	5502.44	104.82			101.23	4.42	33.70	34.53	Peak	8	168 VERTICAL
6	5517.82	95.11			91.46	4.43	33.75	34.53	Average	8	168 VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss3 VHT80 CH, 122, 138, 155 / Chain 1 + Chain 2 + Chain 3
Test Date	Dec. 09, 2014	Test Mode	Mode 3 (Ant. 4 Panel antenna / 9.2dBi)

Channel 122

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5586.92	101.96			98.10	4.45	33.96	34.55	Average	3	164 VERTICAL
2	5626.67	112.47			108.51	4.46	34.06	34.56	Peak	3	164 VERTICAL
3	5727.31	53.82	54.00	-0.18	49.53	4.50	34.37	34.58	Average	3	164 VERTICAL
4	5727.95	68.38	74.00	-5.62	64.09	4.50	34.37	34.58	Peak	3	164 VERTICAL

Item 1, 2 are the fundamental frequency at 5610 MHz.

Channel 138

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5686.15	113.86			109.67	4.49	34.27	34.57	Peak	3	160 VERTICAL
2	5686.80	103.64			99.45	4.49	34.27	34.57	Average	3	160 VERTICAL
3	5850.00	48.32	54.00	-5.68	43.65	4.54	34.73	34.60	Average	3	160 VERTICAL
4	5850.64	59.43	74.00	-14.57	54.76	4.54	34.73	34.60	Peak	3	160 VERTICAL

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

Channel 155

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5702.56	68.06	68.20	-0.14	63.82	4.49	34.32	34.57	Peak	6	156 VERTICAL
2	5724.36	69.85	78.20	-8.35	65.56	4.50	34.37	34.58	Peak	6	156 VERTICAL
3	5784.62	105.77			101.31	4.52	34.53	34.59	Peak	6	156 VERTICAL
4	5787.18	95.81			91.30	4.52	34.58	34.59	Average	6	156 VERTICAL
5	5852.56	64.32	78.20	-13.88	59.65	4.54	34.73	34.60	Peak	6	156 VERTICAL
6	5872.44	65.50	68.20	-2.70	60.71	4.55	34.84	34.60	Peak	6	156 VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 14, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5101.40	53.81	54.00	-0.19	50.97	4.31	33.06	34.53	Average	301	138	VERTICAL
2	5102.00	64.17	74.00	-9.83	61.33	4.31	33.06	34.53	Peak	301	138	VERTICAL
3	5181.80	111.39			108.37	4.36	33.19	34.53	Peak	301	138	VERTICAL
4	5181.80	100.73			97.71	4.36	33.19	34.53	Average	301	138	VERTICAL

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

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	CableLoss	Antenna Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		deg	cm	
1	5121.40	53.87	54.00	-0.13	50.99	4.32	33.09	34.53	Average	301	152	VERTICAL
2	5122.00	64.41	74.00	-9.59	61.53	4.32	33.09	34.53	Peak	301	152	VERTICAL
3	5201.20	101.40			98.34	4.37	33.22	34.53	Average	301	152	VERTICAL
4	5201.80	111.76			108.70	4.37	33.22	34.53	Peak	301	152	VERTICAL

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

Channel 48

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	Limit	Level	Loss	Factor	Factor				
				dB	dBuV	dB	dB/m	dB		deg	cm	
1	5121.80	46.81	54.00	-7.19	43.93	4.32	33.09	34.53	Average	300	161	VERTICAL
2	5136.20	59.09	74.00	-14.91	56.18	4.33	33.11	34.53	Peak	300	161	VERTICAL
3	5241.80	116.94			113.77	4.40	33.30	34.53	Peak	300	161	VERTICAL
4	5241.80	106.43			103.26	4.40	33.30	34.53	Average	300	161	VERTICAL
5	5361.80	60.70	74.00	-13.30	57.26	4.48	33.49	34.53	Peak	300	161	VERTICAL
6	5361.80	48.46	54.00	-5.54	45.02	4.48	33.49	34.53	Average	300	161	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11a CH 52, 60, 64 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 14, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 52

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		deg	cm	
1	5141.20	59.11	74.00	-14.89	56.16	4.34	33.14	34.53	Peak	301	165	VERTICAL
2	5141.20	46.99	54.00	-7.01	44.04	4.34	33.14	34.53	Average	301	165	VERTICAL
3	5261.80	106.25			103.03	4.42	33.33	34.53	Average	301	165	VERTICAL
4	5262.40	117.23			114.01	4.42	33.33	34.53	Peak	301	165	VERTICAL
5	5381.80	48.29	54.00	-5.71	44.82	4.49	33.51	34.53	Average	301	165	VERTICAL
6	5386.60	61.18	74.00	-12.82	57.71	4.49	33.51	34.53	Peak	301	165	VERTICAL

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

Channel 60

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5301.20	101.39			98.10	4.44	33.38	34.53	Average	300	149 VERTICAL
2	5301.80	111.84			108.55	4.44	33.38	34.53	Peak	300	149 VERTICAL
3	5381.60	64.39	74.00	-9.61	60.92	4.49	33.51	34.53	Peak	300	149 VERTICAL
4	5381.60	53.91	54.00	-0.09	50.44	4.49	33.51	34.53	Average	300	149 VERTICAL

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

Channel 64

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5318.80	102.38			99.05	4.45	33.41	34.53	Average	123	192 VERTICAL
2	5319.20	111.99			108.66	4.45	33.41	34.53	Peak	123	192 VERTICAL
3	5399.20	64.53	74.00	-9.47	61.02	4.50	33.54	34.53	Peak	123	192 VERTICAL
4	5399.20	53.93	54.00	-0.07	50.42	4.50	33.54	34.53	Average	123	192 VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11a CH 100, 140 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 14, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	CableLoss	Antenna Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		deg	cm	
1	5420.40	64.10	74.00	-9.90	60.54	4.52	33.57	34.53	Peak	107	163	VERTICAL
2	5420.40	53.85	54.00	-0.15	50.29	4.52	33.57	34.53	Average	107	163	VERTICAL
3	5420.40	53.53	54.00	-0.47	49.97	4.52	33.57	34.53	Average	107	163	VERTICAL
4	5469.20	59.27	74.00	-14.73	55.60	4.55	33.65	34.53	Peak	107	163	VERTICAL
5	5470.00	46.82	54.00	-7.18	43.15	4.55	33.65	34.53	Average	107	163	VERTICAL
6	5500.80	113.13			109.39	4.57	33.70	34.53	Peak	107	163	VERTICAL
7	5500.80	103.27			99.53	4.57	33.70	34.53	Average	107	163	VERTICAL

Item 6, 7 are the fundamental frequency at 5500 MHz.

Channel 140

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5701.20	112.56			108.10	4.71	34.32	34.57	Peak	298	148	VERTICAL
2	5701.20	102.42			97.96	4.71	34.32	34.57	Average	298	148	VERTICAL
3	5781.60	53.97	54.00	-0.03	49.28	4.75	34.53	34.59	Average	298	148	VERTICAL
4	5782.20	68.74	74.00	-5.26	64.05	4.75	34.53	34.59	Peak	298	148	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 14, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5663.00	65.73	68.20	-2.47	61.45	4.67	34.17	34.56	Peak	134	196 VERTICAL
2	5724.60	78.09	78.20	-0.11	73.58	4.72	34.37	34.58	Peak	134	196 VERTICAL
3	5743.80	112.49			107.92	4.73	34.42	34.58	Peak	134	196 VERTICAL
4	5744.20	103.23			98.66	4.73	34.42	34.58	Average	134	196 VERTICAL

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

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5703.40	67.94	68.20	-0.26	63.48	4.71	34.32	34.57	Peak	137	204 VERTICAL
2	5716.60	60.10	78.20	-18.10	55.65	4.71	34.32	34.58	Peak	137	204 VERTICAL
3	5783.40	104.98			100.29	4.75	34.53	34.59	Average	137	204 VERTICAL
4	5783.80	114.93			110.24	4.75	34.53	34.59	Peak	137	204 VERTICAL
5	5853.60	62.19	78.20	-16.01	57.19	4.81	34.79	34.60	Peak	137	204 VERTICAL
6	5863.80	67.46	68.20	-0.74	62.46	4.81	34.79	34.60	Peak	137	204 VERTICAL

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

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5826.20	111.67			106.80	4.79	34.68	34.60	Peak	108	116 VERTICAL
2	5826.20	101.94			97.07	4.79	34.68	34.60	Average	108	116 VERTICAL
3	5850.40	72.63	78.20	-5.57	67.70	4.80	34.73	34.60	Peak	108	116 VERTICAL
4	5901.00	66.85	68.20	-1.35	61.74	4.83	34.89	34.61	Peak	108	116 VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 14, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5091.90	53.94	54.00	-0.06	51.10	4.31	33.06	34.53	Average	300	159	VERTICAL
2	5101.40	65.07	74.00	-8.93	62.23	4.31	33.06	34.53	Peak	300	159	VERTICAL
3	5182.40	113.05			110.03	4.36	33.19	34.53	Peak	300	159	VERTICAL
4	5187.20	101.65			98.63	4.36	33.19	34.53	Average	300	159	VERTICAL

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

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	CableLoss	Antenna Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		deg	cm	
1	5120.60	53.71	54.00	-0.29	50.83	4.32	33.09	34.53	Average	298	249	VERTICAL
2	5121.20	63.94	74.00	-10.06	61.06	4.32	33.09	34.53	Peak	298	249	VERTICAL
3	5201.20	112.72			109.66	4.37	33.22	34.53	Peak	298	249	VERTICAL
4	5201.20	101.88			98.82	4.37	33.22	34.53	Average	298	249	VERTICAL

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

Channel 48

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		T/Pos	A/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	dB	deg	cm	
1	5127.80	59.82	74.00	-14.18	56.91	4.33	33.11	34.53	Peak	300	161	VERTICAL
2	5150.00	46.98	54.00	-7.02	44.03	4.34	33.14	34.53	Average	300	161	VERTICAL
3	5237.60	105.08			101.95	4.39	33.27	34.53	Average	300	161	VERTICAL
4	5246.60	116.15			112.98	4.40	33.30	34.53	Peak	300	161	VERTICAL
5	5357.00	61.52	74.00	-12.48	58.12	4.47	33.46	34.53	Peak	300	161	VERTICAL
6	5360.80	47.97	54.00	-6.03	44.53	4.48	33.49	34.53	Average	300	161	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52, 60, 64 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 15, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 52

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		deg	cm	
1	5137.40	44.73	54.00	-9.27	41.82	4.33	33.11	34.53	Average	129	205	VERTICAL
2	5143.60	58.13	74.00	-15.87	55.18	4.34	33.14	34.53	Peak	129	205	VERTICAL
3	5258.20	116.59			113.42	4.40	33.30	34.53	Peak	129	205	VERTICAL
4	5258.20	105.25			102.08	4.40	33.30	34.53	Average	129	205	VERTICAL
5	5350.00	59.95	74.00	-14.05	56.55	4.47	33.46	34.53	Peak	129	205	VERTICAL
6	5374.00	45.94	54.00	-8.06	42.50	4.48	33.49	34.53	Average	129	205	VERTICAL

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

Channel 60

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5300.80	101.28			97.99	4.44	33.38	34.53	Average	258	198 VERTICAL
2	5301.20	111.79			108.50	4.44	33.38	34.53	Peak	258	198 VERTICAL
3	5381.20	53.77	54.00	-0.23	50.30	4.49	33.51	34.53	Average	258	198 VERTICAL
4	5381.60	64.25	74.00	-9.75	60.78	4.49	33.51	34.53	Peak	258	198 VERTICAL

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

Channel 64

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5318.80	113.25			109.92	4.45	33.41	34.53	Peak	123	188 VERTICAL
2	5318.80	102.95			99.62	4.45	33.41	34.53	Average	123	188 VERTICAL
3	5394.80	53.79	54.00	-0.21	50.28	4.50	33.54	34.53	Average	123	188 VERTICAL
4	5405.20	64.22	74.00	-9.78	60.71	4.50	33.54	34.53	Peak	123	188 VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100, 140 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 15, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	CableLoss	Antenna Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		deg	cm	
1	5418.80	64.84	74.00	-9.16	61.28	4.52	33.57	34.53	Peak	132	178	VERTICAL
2	5418.80	53.85	54.00	-0.15	50.29	4.52	33.57	34.53	Average	132	178	VERTICAL
3	5469.60	69.28	74.00	-4.72	65.61	4.55	33.65	34.53	Peak	132	178	VERTICAL
4	5470.00	48.55	54.00	-5.45	44.88	4.55	33.65	34.53	Average	132	178	VERTICAL
5	5498.80	114.36			110.62	4.57	33.70	34.53	Peak	132	178	VERTICAL
6	5498.80	103.40			99.66	4.57	33.70	34.53	Average	132	178	VERTICAL

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

Channel 140

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		deg	cm	
1	5698.80	112.63			108.23	4.70	34.27	34.57	Peak	213	182	VERTICAL
2	5698.80	102.36			97.96	4.70	34.27	34.57	Average	213	182	VERTICAL
3	5725.00	71.08	74.00	-2.92	66.57	4.72	34.37	34.58	Peak	213	182	VERTICAL
4	5774.00	53.79	54.00	-0.21	49.09	4.75	34.53	34.58	Average	213	182	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 15, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5667.80	62.94	68.20	-5.26	58.60	4.68	34.22	34.56	Peak	176	184 VERTICAL
2	5723.80	77.86	78.20	-0.34	73.35	4.72	34.37	34.58	Peak	176	184 VERTICAL
3	5743.40	110.79			106.22	4.73	34.42	34.58	Peak	176	184 VERTICAL
4	5744.20	101.03			96.46	4.73	34.42	34.58	Average	176	184 VERTICAL

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

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	CableLoss	Antenna Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		deg	cm	
1	5707.80	66.31	68.20	-1.89	61.86	4.71	34.32	34.58	Peak	181	262	VERTICAL
2	5722.60	58.45	78.20	-19.75	53.94	4.72	34.37	34.58	Peak	181	262	VERTICAL
3	5778.60	115.04			110.34	4.75	34.53	34.58	Peak	181	262	VERTICAL
4	5783.40	105.42			100.73	4.75	34.53	34.59	Average	181	262	VERTICAL
5	5858.80	65.48	78.20	-12.72	60.48	4.81	34.79	34.60	Peak	181	262	VERTICAL
6	5864.60	66.25	68.20	-1.95	61.25	4.81	34.79	34.60	Peak	181	262	VERTICAL

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

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	T/Pos	A/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5831.80	113.91			109.04	4.79	34.68	34.60	Peak	94	176 VERTICAL
2	5831.80	103.92			99.05	4.79	34.68	34.60	Average	94	176 VERTICAL
3	5850.00	77.59	78.20	-0.61	72.66	4.80	34.73	34.60	Peak	94	176 VERTICAL
4	5860.40	67.30	68.20	-0.90	62.30	4.81	34.79	34.60	Peak	94	176 VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 16, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5147.76	72.87	74.00	-1.13	67.93	6.13	34.01	35.20	Peak	188	135	VERTICAL
2	5150.00	53.83	54.00	-0.17	48.89	6.13	34.01	35.20	Average	188	135	VERTICAL
3	5177.76	103.00			97.97	6.15	34.08	35.20	Average	188	135	VERTICAL
4	5178.08	113.15			108.12	6.15	34.08	35.20	Peak	188	135	VERTICAL

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

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5117.63	62.49	74.00	-11.51	57.64	6.11	33.94	35.20	Peak	195	50	VERTICAL
2	5121.80	52.23	54.00	-1.77	47.38	6.11	33.94	35.20	Average	195	50	VERTICAL
3	5202.24	103.05			97.98	6.16	34.11	35.20	Average	195	50	VERTICAL
4	5202.24	112.91			107.84	6.16	34.11	35.20	Peak	195	50	VERTICAL

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

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5136.06	56.58	74.00	-17.42	51.68	6.12	33.98	35.20	Peak	201	53	VERTICAL
2	5150.00	44.05	54.00	-9.95	39.11	6.13	34.01	35.20	Average	201	53	VERTICAL
3	5237.60	113.21			108.05	6.18	34.18	35.20	Peak	201	53	VERTICAL
4	5242.40	103.07			97.89	6.20	34.18	35.20	Average	201	53	VERTICAL
5	5361.54	44.74	54.00	-9.26	39.25	6.27	34.42	35.20	Average	201	53	VERTICAL
6	5363.46	57.42	74.00	-16.58	51.93	6.27	34.42	35.20	Peak	201	53	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 CH 52, 60, 64 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 16, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 52

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5141.83	45.07	54.00	-8.93	40.16	6.13	33.98	35.20	Average	195	138	VERTICAL
2	5147.60	56.53	74.00	-17.47	51.59	6.13	34.01	35.20	Peak	195	138	VERTICAL
3	5262.40	103.29			98.06	6.21	34.22	35.20	Average	195	138	VERTICAL
4	5262.40	113.82			108.59	6.21	34.22	35.20	Peak	195	138	VERTICAL
5	5350.00	44.67	54.00	-9.33	39.19	6.26	34.42	35.20	Average	195	138	VERTICAL
6	5383.65	57.22	74.00	-16.78	51.65	6.28	34.49	35.20	Peak	195	138	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	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5306.41	113.75			108.40	6.23	34.32	35.20	Peak	183	157	VERTICAL
2	5306.73	103.39			98.04	6.23	34.32	35.20	Average	183	157	VERTICAL
3	5386.86	53.68	54.00	-0.32	48.11	6.28	34.49	35.20	Average	183	157	VERTICAL
4	5387.18	63.90	74.00	-10.10	58.33	6.28	34.49	35.20	Peak	183	157	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	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5315.51	112.79			107.39	6.24	34.36	35.20	Peak	170	135	VERTICAL
2	5317.76	103.50			98.10	6.24	34.36	35.20	Average	170	135	VERTICAL
3	5350.96	68.88	74.00	-5.12	63.40	6.26	34.42	35.20	Peak	170	135	VERTICAL
4	5397.76	53.23	54.00	-0.77	47.65	6.29	34.49	35.20	Average	170	135	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 CH 100, 140 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 16, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 100

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	5421.86	53.36	54.00	-0.64	47.69	6.31	34.56	35.20	Average	195	96	VERTICAL
2	5423.78	63.93	74.00	-10.07	58.26	6.31	34.56	35.20	Peak	195	96	VERTICAL
3	5468.72	72.15	74.00	-1.85	66.34	6.34	34.67	35.20	Peak	195	96	VERTICAL
4	5470.00	52.25	54.00	-1.75	46.44	6.34	34.67	35.20	Average	195	96	VERTICAL
5	5502.24	103.83			97.96	6.36	34.71	35.20	Average	195	96	VERTICAL
6	5502.24	113.63			107.76	6.36	34.71	35.20	Peak	195	96	VERTICAL

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

Channel 140

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	5706.41	111.97			105.86	6.44	34.87	35.20	Peak	185	104	VERTICAL
2	5706.73	102.05			95.94	6.44	34.87	35.20	Average	185	104	VERTICAL
3	5725.00	53.90	54.00	-0.10	47.76	6.45	34.89	35.20	Average	185	104	VERTICAL
4	5725.00	70.66	74.00	-3.34	64.52	6.45	34.89	35.20	Peak	185	104	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 16, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5666.92	63.19	68.20	-5.01	57.13	6.43	34.83	35.20	Peak	183	141	VERTICAL
2	5725.00	77.82	78.20	-0.38	71.68	6.45	34.89	35.20	Peak	183	141	VERTICAL
3	5747.24	102.03			95.88	6.45	34.90	35.20	Average	183	141	VERTICAL
4	5750.77	111.66			105.51	6.45	34.90	35.20	Peak	183	141	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	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5704.74	65.09	68.20	-3.11	58.99	6.44	34.86	35.20	Peak	194	88	VERTICAL
2	5725.00	57.22	78.20	-20.98	51.08	6.45	34.89	35.20	Peak	194	88	VERTICAL
3	5778.27	104.73			98.54	6.46	34.93	35.20	Average	194	88	VERTICAL
4	5778.91	114.52			108.33	6.46	34.93	35.20	Peak	194	88	VERTICAL
5	5858.72	64.74	78.20	-13.46	58.46	6.50	34.98	35.20	Peak	194	88	VERTICAL
6	5863.85	64.85	68.20	-3.35	58.56	6.50	34.99	35.20	Peak	194	88	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	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5822.44	115.20			108.97	6.48	34.95	35.20	Peak	180	57	VERTICAL
2	5822.76	104.84			98.61	6.48	34.95	35.20	Average	180	57	VERTICAL
3	5850.00	77.75	78.20	-0.45	71.48	6.49	34.98	35.20	Peak	180	57	VERTICAL
4	5908.72	64.69	68.20	-3.51	58.35	6.52	35.02	35.20	Peak	180	57	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 16, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 38

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5149.36	68.54	74.00	-5.46	63.60	6.13	34.01	35.20	Peak	172	17	VERTICAL
2	5150.00	53.92	54.00	-0.08	48.98	6.13	34.01	35.20	Average	172	17	VERTICAL
3	5195.13	96.79			91.72	6.16	34.11	35.20	Average	172	17	VERTICAL
4	5195.13	106.00			100.93	6.16	34.11	35.20	Peak	172	17	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	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5144.87	53.21	54.00	-0.79	48.27	6.13	34.01	35.20	Average	172	20	VERTICAL
2	5145.51	64.45	74.00	-9.55	59.51	6.13	34.01	35.20	Peak	172	20	VERTICAL
3	5235.13	112.31			107.15	6.18	34.18	35.20	Peak	172	20	VERTICAL
4	5235.45	102.50			97.34	6.18	34.18	35.20	Average	172	20	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 16, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 54

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg
			dBuV/m	dB	dBuV	dB	dB/m	dB			Pol/Phase
1	5264.55	111.53			106.27	6.21	34.25	35.20	Peak	182	21 VERTICAL
2	5265.19	102.40			97.14	6.21	34.25	35.20	Average	182	21 VERTICAL
3	5354.49	62.66	74.00	-11.34	57.18	6.26	34.42	35.20	Peak	182	21 VERTICAL
4	5355.13	52.19	54.00	-1.81	46.71	6.26	34.42	35.20	Average	182	21 VERTICAL

Item 1, 2 are the fundamental frequency at 5270 MHz.

Channel 62

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg
			dBuV/m	dB	dBuV	dB	dB/m	dB			Pol/Phase
1	5315.13	97.18			91.78	6.24	34.36	35.20	Average	177	19 VERTICAL
2	5315.13	106.22			100.82	6.24	34.36	35.20	Peak	177	19 VERTICAL
3	5350.00	53.90	54.00	-0.10	48.42	6.26	34.42	35.20	Average	177	19 VERTICAL
4	5350.00	68.98	74.00	-5.02	63.50	6.26	34.42	35.20	Peak	177	19 VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102, 110, 134 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 16, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 102

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5435.00	49.03	54.00	-4.97	43.31	6.32	34.60	35.20	Average	171	22	VERTICAL
2	5460.00	61.27	74.00	-12.73	55.51	6.33	34.63	35.20	Peak	171	22	VERTICAL
3	5469.36	68.70	74.00	-5.30	62.89	6.34	34.67	35.20	Peak	171	22	VERTICAL
4	5470.00	53.61	54.00	-0.39	47.80	6.34	34.67	35.20	Average	171	22	VERTICAL
5	5505.19	106.42			100.55	6.36	34.71	35.20	Peak	171	22	VERTICAL
6	5505.51	97.17			91.30	6.36	34.71	35.20	Average	171	22	VERTICAL

Item 5, 6 are the fundamental frequency at 5510 MHz.

Channel 110

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5459.36	62.56	74.00	-11.44	56.80	6.33	34.63	35.20	Peak	178	18	VERTICAL
2	5460.00	52.64	54.00	-1.36	46.88	6.33	34.63	35.20	Average	178	18	VERTICAL
3	5464.87	64.73	74.00	-9.27	58.96	6.34	34.63	35.20	Peak	178	18	VERTICAL
4	5465.19	53.13	54.00	-0.87	47.36	6.34	34.63	35.20	Average	178	18	VERTICAL
5	5555.77	102.40			96.47	6.38	34.75	35.20	Average	178	18	VERTICAL
6	5555.77	111.80			105.87	6.38	34.75	35.20	Peak	178	18	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	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5667.12	102.95			96.89	6.43	34.83	35.20	Average	179	99	VERTICAL
2	5667.12	112.12			106.06	6.43	34.83	35.20	Peak	179	99	VERTICAL
3	5726.92	70.93	74.00	-3.07	64.79	6.45	34.89	35.20	Peak	179	99	VERTICAL
4	5752.56	53.74	54.00	-0.26	47.58	6.46	34.90	35.20	Average	179	99	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 16, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 151

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg
			dBuV/m	dB	dBuV	dB	dB/m	dB			Pol/Phase
1	5712.44	68.16	68.20	-0.04	62.05	6.44	34.87	35.20	Peak	184	99 VERTICAL
2	5722.44	71.13	78.20	-7.07	65.01	6.45	34.87	35.20	Peak	184	99 VERTICAL
3	5752.12	96.61			90.45	6.46	34.90	35.20	Average	184	99 VERTICAL
4	5752.12	106.31			100.15	6.46	34.90	35.20	Peak	184	99 VERTICAL

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

Channel 159

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg
			dBuV/m	dB	dBuV	dB	dB/m	dB			Pol/Phase
1	5712.76	65.92	68.20	-2.28	59.81	6.44	34.87	35.20	Peak	186	52 VERTICAL
2	5723.40	69.73	78.20	-8.47	63.59	6.45	34.89	35.20	Peak	186	52 VERTICAL
3	5797.89	113.41			107.20	6.47	34.94	35.20	Peak	186	52 VERTICAL
4	5798.21	103.07			96.86	6.47	34.94	35.20	Average	186	52 VERTICAL
5	5851.60	71.59	78.20	-6.61	65.32	6.49	34.98	35.20	Peak	186	52 VERTICAL
6	5861.60	68.16	68.20	-0.04	61.87	6.50	34.99	35.20	Peak	186	52 VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 16, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 38

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	5145.83	67.61	74.00	-6.39	62.67	6.13	34.01	35.20	Peak	192	158	VERTICAL
2	5150.00	53.99	54.00	-0.01	49.05	6.13	34.01	35.20	Average	192	158	VERTICAL
3	5186.47	95.37			90.34	6.15	34.08	35.20	Average	192	158	VERTICAL
4	5186.47	105.20			100.17	6.15	34.08	35.20	Peak	192	158	VERTICAL

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

Channel 46

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	5142.95	50.35	54.00	-3.65	45.44	6.13	33.98	35.20	Average	195	88	VERTICAL
2	5143.91	65.68	74.00	-8.32	60.74	6.13	34.01	35.20	Peak	195	88	VERTICAL
3	5233.53	99.84			94.68	6.18	34.18	35.20	Average	195	88	VERTICAL
4	5233.53	109.01			103.85	6.18	34.18	35.20	Peak	195	88	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 CH 54, 62 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 16, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 54

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5262.31	100.15			94.92	6.21	34.22	35.20	Average	194	57	VERTICAL
2	5265.51	109.98			104.72	6.21	34.25	35.20	Peak	194	57	VERTICAL
3	5358.01	50.86	54.00	-3.14	45.38	6.26	34.42	35.20	Average	194	57	VERTICAL
4	5362.50	62.64	74.00	-11.36	57.15	6.27	34.42	35.20	Peak	194	57	VERTICAL

Item 1, 2 are the fundamental frequency at 5270 MHz.

Channel 62

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5306.47	95.64			90.29	6.23	34.32	35.20	Average	186	159	VERTICAL
2	5306.47	106.20			100.85	6.23	34.32	35.20	Peak	186	159	VERTICAL
3	5350.00	53.71	54.00	-0.29	48.23	6.26	34.42	35.20	Average	186	159	VERTICAL
4	5351.92	69.82	74.00	-4.18	64.34	6.26	34.42	35.20	Peak	186	159	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 CH 102, 110, 134 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 16, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 102

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5460.00	47.29	54.00	-6.71	41.53	6.33	34.63	35.20	Average	205	84	VERTICAL
2	5460.00	59.38	74.00	-14.62	53.62	6.33	34.63	35.20	Peak	205	84	VERTICAL
3	5464.23	68.42	74.00	-5.58	62.65	6.34	34.63	35.20	Peak	205	84	VERTICAL
4	5470.00	53.67	54.00	-0.33	47.86	6.34	34.67	35.20	Average	205	84	VERTICAL
5	5513.53	96.48			90.60	6.37	34.71	35.20	Average	205	84	VERTICAL
6	5514.17	107.01			101.13	6.37	34.71	35.20	Peak	205	84	VERTICAL

Item 5, 6 are the fundamental frequency at 5510 MHz.

Channel 110

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5457.44	50.48	54.00	-3.52	44.72	6.33	34.63	35.20	Average	184	53	VERTICAL
2	5457.76	61.94	74.00	-12.06	56.18	6.33	34.63	35.20	Peak	184	53	VERTICAL
3	5466.80	50.71	54.00	-3.29	44.94	6.34	34.63	35.20	Average	184	53	VERTICAL
4	5467.76	61.49	74.00	-12.51	55.68	6.34	34.67	35.20	Peak	184	53	VERTICAL
5	5552.89	110.92			104.99	6.38	34.75	35.20	Peak	184	53	VERTICAL
6	5558.01	100.40			94.47	6.38	34.75	35.20	Average	184	53	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	Preamplifier Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5673.53	101.81			95.73	6.43	34.85	35.20	Average	192	92	VERTICAL
2	5675.45	111.26			105.18	6.43	34.85	35.20	Peak	192	92	VERTICAL
3	5726.92	53.38	54.00	-0.62	47.24	6.45	34.89	35.20	Average	192	92	VERTICAL
4	5727.89	71.88	74.00	-2.12	65.74	6.45	34.89	35.20	Peak	192	92	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 16, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5715.00	68.14	68.20	-0.06	62.03	6.44	34.87	35.20	Peak	185	128	VERTICAL
2	5717.95	74.91	78.20	-3.29	68.79	6.45	34.87	35.20	Peak	185	128	VERTICAL
3	5757.56	106.73			100.56	6.46	34.91	35.20	Peak	185	128	VERTICAL
4	5758.53	96.71			90.54	6.46	34.91	35.20	Average	185	128	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	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5709.87	63.46	68.20	-4.74	57.35	6.44	34.87	35.20	Peak	176	14	VERTICAL
2	5719.55	67.76	78.20	-10.44	61.64	6.45	34.87	35.20	Peak	176	14	VERTICAL
3	5790.51	111.91			105.71	6.47	34.93	35.20	Peak	176	14	VERTICAL
4	5791.47	100.74			94.53	6.47	34.94	35.20	Average	176	14	VERTICAL
5	5850.32	75.31	78.20	-2.89	69.04	6.49	34.98	35.20	Peak	176	14	VERTICAL
6	5860.96	67.04	68.20	-1.16	60.75	6.50	34.99	35.20	Peak	176	14	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 58, 106 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 16, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 42

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5146.80	65.44	74.00	-8.56	60.50	6.13	34.01	35.20	Peak	197	156	VERTICAL
2	5147.44	53.66	54.00	-0.34	48.72	6.13	34.01	35.20	Average	197	156	VERTICAL
3	5221.54	92.47			87.35	6.17	34.15	35.20	Average	197	156	VERTICAL
4	5222.18	102.33			97.21	6.17	34.15	35.20	Peak	197	156	VERTICAL

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

Channel 58

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5295.13	102.56			97.24	6.23	34.29	35.20	Peak	180	20	VERTICAL
2	5299.62	93.41			88.06	6.23	34.32	35.20	Average	180	20	VERTICAL
3	5350.00	53.76	54.00	-0.24	48.28	6.26	34.42	35.20	Average	180	20	VERTICAL
4	5350.00	66.71	74.00	-7.29	61.23	6.26	34.42	35.20	Peak	180	20	VERTICAL

Item 1, 2 are the fundamental frequency at 5290 MHz.

Channel 106

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5459.36	52.90	54.00	-1.10	47.14	6.33	34.63	35.20	Average	178	13	VERTICAL
2	5460.00	64.38	74.00	-9.62	58.62	6.33	34.63	35.20	Peak	178	13	VERTICAL
3	5467.44	68.18	74.00	-5.82	62.37	6.34	34.67	35.20	Peak	178	13	VERTICAL
4	5470.00	53.62	54.00	-0.38	47.81	6.34	34.67	35.20	Average	178	13	VERTICAL
5	5505.00	101.11			95.24	6.36	34.71	35.20	Peak	178	13	VERTICAL
6	5540.90	92.37			86.46	6.37	34.74	35.20	Average	178	13	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH, 122, 138, 155 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 16, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 122

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	5457.44	59.56	74.00	-14.44	53.80	6.33	34.63	35.20	Peak	166	59	VERTICAL
2	5458.08	47.25	54.00	-6.75	41.49	6.33	34.63	35.20	Average	166	59	VERTICAL
3	5467.44	60.41	74.00	-13.59	54.60	6.34	34.67	35.20	Peak	166	59	VERTICAL
4	5470.00	47.53	54.00	-6.47	41.72	6.34	34.67	35.20	Average	166	59	VERTICAL
5	5611.92	107.91			101.92	6.40	34.79	35.20	Peak	166	59	VERTICAL
6	5612.56	99.02			93.03	6.40	34.79	35.20	Average	166	59	VERTICAL
7	5726.92	65.29	74.00	-8.71	59.15	6.45	34.89	35.20	Peak	166	59	VERTICAL
8	5728.21	51.84	54.00	-2.16	45.70	6.45	34.89	35.20	Average	166	59	VERTICAL

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

Channel 138

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	5460.00	45.63	54.00	-8.37	39.87	6.33	34.63	35.20	Average	179	99	VERTICAL
2	5460.00	54.88	74.00	-19.12	49.12	6.33	34.63	35.20	Peak	179	99	VERTICAL
3	5470.00	44.59	54.00	-9.41	38.78	6.34	34.67	35.20	Average	179	99	VERTICAL
4	5470.00	56.53	74.00	-17.47	50.72	6.34	34.67	35.20	Peak	179	99	VERTICAL
5	5677.18	99.09			93.01	6.43	34.85	35.20	Average	179	99	VERTICAL
6	5677.18	108.19			102.11	6.43	34.85	35.20	Peak	179	99	VERTICAL
7	5850.00	45.98	54.00	-8.02	39.71	6.49	34.98	35.20	Average	179	99	VERTICAL
8	5850.00	56.37	74.00	-17.63	50.10	6.49	34.98	35.20	Peak	179	99	VERTICAL

Item 5, 6 are the fundamental frequency at 5690 MHz.

Channel 155

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	5715.00	67.96	68.20	-0.24	61.85	6.44	34.87	35.20	Peak	169	87	VERTICAL
2	5724.36	72.24	78.20	-5.96	66.10	6.45	34.89	35.20	Peak	169	87	VERTICAL
3	5778.85	93.48			87.29	6.46	34.93	35.20	Average	169	87	VERTICAL
4	5794.23	103.16			96.95	6.47	34.94	35.20	Peak	169	87	VERTICAL
5	5853.21	66.80	78.20	-11.40	60.53	6.49	34.98	35.20	Peak	169	87	VERTICAL
6	5862.56	63.87	68.20	-4.33	57.58	6.50	34.99	35.20	Peak	169	87	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss3 VHT80 CH 42, 58, 106 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 16, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 42

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5142.95	67.93	74.00	-6.07	63.02	6.13	33.98	35.20	Peak	183	96	HORIZONTAL
2	5148.72	53.89	54.00	-0.11	48.95	6.13	34.01	35.20	Average	183	96	HORIZONTAL
3	5197.82	88.15			83.08	6.16	34.11	35.20	Average	183	96	HORIZONTAL
4	5218.33	99.30			94.18	6.17	34.15	35.20	Peak	183	96	HORIZONTAL

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

Channel 58

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5262.44	101.78			96.55	6.21	34.22	35.20	Peak	194	139	VERTICAL
2	5302.18	92.12			86.77	6.23	34.32	35.20	Average	194	139	VERTICAL
3	5351.28	53.93	54.00	-0.07	48.45	6.26	34.42	35.20	Average	194	139	VERTICAL
4	5356.41	67.49	74.00	-6.51	62.01	6.26	34.42	35.20	Peak	194	139	VERTICAL

Item 1, 2 are the fundamental frequency at 5290 MHz.

Channel 106

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5456.15	53.83	54.00	-0.17	48.07	6.33	34.63	35.20	Average	189	143	VERTICAL
2	5456.80	68.17	74.00	-5.83	62.41	6.33	34.63	35.20	Peak	189	143	VERTICAL
3	5461.67	53.94	54.00	-0.06	48.18	6.33	34.63	35.20	Average	189	143	VERTICAL
4	5462.95	68.02	74.00	-5.98	62.25	6.34	34.63	35.20	Peak	189	143	VERTICAL
5	5506.92	91.60			85.73	6.36	34.71	35.20	Average	189	143	VERTICAL
6	5517.18	102.12			96.24	6.37	34.71	35.20	Peak	189	143	VERTICAL

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

Temperature	24.5°C	Humidity	57%
Test Engineer	Akina Chiu	Configurations	IEEE 802.11ac MCS0/Nss3 VHT80 CH, 122, 138, 155 / Chain 1 + Chain 2 + Chain 3
Test Date	Nov. 16, 2014	Test Mode	Mode 4 (Ant. 5 PCB antenna / 5.74dBi)

Channel 122

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5457.44	48.96	54.00	-5.04	43.20	6.33	34.63	35.20	Average	186	97	VERTICAL
2	5457.44	62.45	74.00	-11.55	56.69	6.33	34.63	35.20	Peak	186	97	VERTICAL
3	5466.80	49.16	54.00	-4.84	43.39	6.34	34.63	35.20	Average	186	97	VERTICAL
4	5468.08	62.60	74.00	-11.40	56.79	6.34	34.67	35.20	Peak	186	97	VERTICAL
5	5597.18	97.63			91.66	6.39	34.78	35.20	Average	186	97	VERTICAL
6	5599.74	107.75			101.77	6.40	34.78	35.20	Peak	186	97	VERTICAL
7	5725.00	50.24	54.00	-3.76	44.10	6.45	34.89	35.20	Average	186	97	VERTICAL
8	5727.56	63.10	74.00	-10.90	56.96	6.45	34.89	35.20	Peak	186	97	VERTICAL

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

Channel 138

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5460.00	46.43	54.00	-7.57	40.67	6.33	34.63	35.20	Average	171	94	VERTICAL
2	5460.00	56.88	74.00	-17.12	51.12	6.33	34.63	35.20	Peak	171	94	VERTICAL
3	5470.00	45.73	54.00	-8.27	39.92	6.34	34.67	35.20	Average	171	94	VERTICAL
4	5470.00	57.17	74.00	-16.83	51.36	6.34	34.67	35.20	Peak	171	94	VERTICAL
5	5677.98	97.80			91.72	6.43	34.85	35.20	Average	171	94	VERTICAL
6	5707.63	107.93			101.82	6.44	34.87	35.20	Peak	171	94	VERTICAL
7	5850.00	46.96	54.00	-7.04	40.69	6.49	34.98	35.20	Average	171	94	VERTICAL
8	5850.00	57.04	74.00	-16.96	50.77	6.49	34.98	35.20	Peak	171	94	VERTICAL

Item 5, 6 are the fundamental frequency at 5690 MHz.

Channel 155

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5707.95	68.18	68.20	-0.02	62.07	6.44	34.87	35.20	Peak	192	92	VERTICAL
2	5724.36	69.76	78.20	-8.44	63.62	6.45	34.89	35.20	Peak	192	92	VERTICAL
3	5768.59	101.82			95.65	6.46	34.91	35.20	Peak	192	92	VERTICAL
4	5778.21	92.46			86.27	6.46	34.93	35.20	Average	192	92	VERTICAL
5	5852.56	65.01	78.20	-13.19	58.74	6.49	34.98	35.20	Peak	192	92	VERTICAL
6	5867.69	64.91	68.20	-3.29	58.62	6.50	34.99	35.20	Peak	192	92	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 - Preamplifier Factor = Level

4.7. Frequency Stability Measurement

4.7.1. 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).

4.7.2. Measuring Instruments and Setting

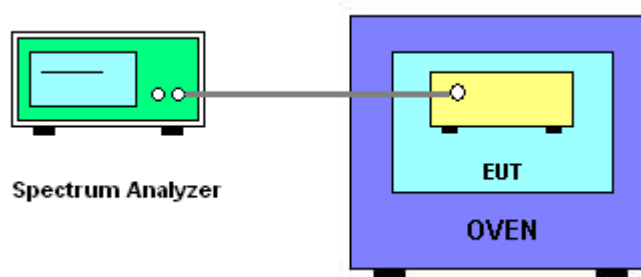
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

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

4.7.3. Test Procedures

10. The transmitter output (antenna port) was connected to the spectrum analyzer.
11. EUT have transmitted absence of modulation signal and fixed channelize.
12. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
13. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
14. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm and the limit is less than ± 20 ppm (IEEE 802.11n specification).
15. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
16. Extreme temperature is $0^\circ\text{C} \sim 50^\circ\text{C}$.

4.7.4. Test Setup Layout



4.7.5. Test Deviation

There is no deviation with the original standard.

4.7.6. EUT Operation during Test

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

4.7.7. Test Result of Frequency Stability

Temperature	25°C	Humidity	56%
Test Engineer	Mars Lin	Test Date	Nov. 21, 2014

Mode: 20 MHz

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5200 MHz	5300 MHz	5580 MHz	5785 MHz
126.50	5200.0800	5300.0021	5580.0023	5785.0029
110.00	5200.0012	5300.0015	5580.0016	5785.0016
93.50	5200.0001	5300.0005	5580.0004	5785.0005
Max. Deviation (MHz)	0.0800	0.0021	0.0023	0.0029
Max. Deviation (ppm)	15.38	0.40	0.41	0.50

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5200 MHz	5300 MHz	5580 MHz	5785 MHz
0	5200.0019	5300.0018	5580.0032	5785.0034
10	5200.0015	5300.0016	5580.0024	5785.0026
20	5200.0012	5300.0015	5580.0016	5785.0016
30	5200.0011	5300.0012	5580.0002	5785.0004
40	5200.0009	5300.0008	5579.9994	5784.9996
50	5200.0006	5300.0004	5579.9989	5784.9989
Max. Deviation (MHz)	0.0019	0.0018	0.0032	0.0034
Max. Deviation (ppm)	0.37	0.34	0.57	0.59

Mode: 40 MHz

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5190 MHz	5310 MHz	5550 MHz	5755 MHz
126.50	5190.0036	5310.0038	5550.0042	5755.0032
110.00	5190.0024	5310.0026	5550.0016	5755.0016
93.50	5190.0008	5310.0004	5550.0006	5755.0004
Max. Deviation (MHz)	0.0036	0.0038	0.0042	0.0032
Max. Deviation (ppm)	0.69	0.72	0.76	0.56

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5190 MHz	5310 MHz	5550 MHz	5755 MHz
0	5190.0042	5310.0049	5550.0042	5755.0042
10	5190.0032	5310.0038	5550.0024	5755.0026
20	5190.0024	5310.0026	5550.0016	5755.0016
30	5190.0012	5310.0002	5549.9998	5755.0004
40	5190.0002	5309.9992	5549.9986	5754.9992
50	5189.9994	5309.9981	5549.9973	5754.9984
Max. Deviation (MHz)	0.0042	0.0049	0.0042	0.0042
Max. Deviation (ppm)	0.81	0.92	0.76	0.73

Mode: 80 MHz

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5210 MHz	5290 MHz	5530 MHz	5775 MHz
126.50	5210.0042	5290.0056	5530.0048	5775.0039
110.00	5210.0026	5290.0030	5530.0028	5775.0015
93.50	5210.0002	5290.0004	5530.0002	5775.0002
Max. Deviation (MHz)	0.0042	0.0056	0.0048	0.0039
Max. Deviation (ppm)	0.81	1.06	0.87	0.68

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5210 MHz	5290 MHz	5530 MHz	5775 MHz
0	5210.0052	5290.0061	5530.0048	5775.0032
10	5210.0048	5290.0051	5530.0032	5775.0026
20	5210.0026	5290.0030	5530.0028	5775.0015
30	5209.9992	5290.0002	5529.9998	5774.9992
40	5209.9981	5289.9989	5529.9986	5774.9986
50	5209.9974	5289.9984	5529.9982	5774.9973
Max. Deviation (MHz)	0.005200	0.0061	0.0048	0.0032
Max. Deviation (ppm)	1.00	1.15	0.87	0.55

4.8. Antenna Requirements

4.8.1. 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.

4.8.2. 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
Horn Antenna	EMCO	3115	00075790	750MHz~18GHz	Oct. 28, 2014	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2014	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Dec. 16, 2013	Radiation (03CH01-CB)
Pre-Amplifier	WM	TF-130N-R1	923365	26GHz ~ 40GHz	Nov. 25, 2014	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSV40	101026	9kHz ~ 40GHz	Aug. 28, 2014	Radiation (03CH01-CB)
Turn Table	INN CO	CO 2000	N/A	0 ~ 360 degree	N.C.R.	Radiation (03CH01-CB)
Antenna Mast	INN CO	CO 2000	N/A	1 m - 4 m	N.C.R.	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-1	N/A	1 GHz – 26.5 GHz	Nov. 17, 2013	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-1	N/A	1 GHz – 26.5 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-2	N/A	1 GHz – 26.5 GHz	Nov. 17, 2013	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-2	N/A	1 GHz – 26.5 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-3	N/A	1 GHz - 40 GHz	Nov. 17, 2013	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-3	N/A	1 GHz - 40 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-4	N/A	1 GHz - 40 GHz	Nov. 17, 2013	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-4	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)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 03, 2014	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-8	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. 15, 2014	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-6	1 GHz – 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 03, 2014	Conducted (TH01-CB)

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

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

6. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty	Remark
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%