



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2
Test Date	Jul. 26, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15630.63	45.34	54.00	-8.66	28.58	12.58	37.98	33.80	167	166 Average	HORIZONTAL
2	15632.43	58.50	74.00	-15.50	41.74	12.58	37.98	33.80	167	166 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15629.48	45.13	54.00	-8.87	28.37	12.58	37.98	33.80	165	149 Average	VERTICAL
2	15629.48	57.67	74.00	-16.33	40.91	12.58	37.98	33.80	165	149 Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1 + Chain 2
Test Date	Jul. 26, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15869.01	58.77	74.00	-15.23	42.64	12.57	37.59	34.03	167	174	Peak	HORIZONTAL
2	15871.08	44.90	54.00	-9.10	28.77	12.57	37.59	34.03	167	174	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15871.19	45.02	54.00	-8.98	28.89	12.57	37.59	34.03	165	189	Average	VERTICAL
2	15871.77	58.02	74.00	-15.98	41.89	12.57	37.59	34.03	165	189	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106 / Chain 1 + Chain 2
Test Date	Jul. 26, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11058.13	43.42	54.00	-10.58	27.76	10.57	38.47	33.38	182	213	Average	HORIZONTAL
2	11061.00	56.82	74.00	-17.18	41.15	10.58	38.47	33.38	182	213	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11060.41	56.57	74.00	-17.43	40.90	10.58	38.47	33.38	180	103	Peak	VERTICAL
2	11061.47	43.37	54.00	-10.63	27.70	10.58	38.47	33.38	180	103	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 122 / Chain 1 + Chain 2
Test Date	Jul. 26, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11219.84	57.55	74.00	-16.45	41.68	10.63	38.62	33.38	176	196	Peak	HORIZONTAL
2	11222.18	43.26	54.00	-10.74	27.39	10.63	38.62	33.38	176	196	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11220.42	56.34	74.00	-17.66	40.47	10.63	38.62	33.38	180	172	Peak	VERTICAL
2	11220.61	43.40	54.00	-10.60	27.53	10.63	38.62	33.38	180	172	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2
Test Date	Jul. 26, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11549.93	57.15	74.00	-16.85	40.85	10.75	38.93	33.38	195	218	Peak	HORIZONTAL
2	11551.74	43.97	54.00	-10.03	27.67	10.75	38.93	33.38	195	218	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11547.76	44.06	54.00	-9.94	27.77	10.75	38.92	33.38	165	177	Average	VERTICAL
2	11551.12	57.06	74.00	-16.94	40.76	10.75	38.93	33.38	165	177	Peak	VERTICAL

Straddle Channel

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2
Test Date	Jul. 26, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	PoI/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11439.97	51.29	54.00	-2.71	35.14	10.69	38.83	33.37	198	246	Average	HORIZONTAL
2	11440.00	65.39	74.00	-8.61	49.24	10.69	38.83	33.37	198	246	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	PoI/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11439.74	50.88	54.00	-3.12	34.73	10.69	38.83	33.37	196	173	Average	VERTICAL
2	11442.21	64.07	74.00	-9.93	47.92	10.69	38.83	33.37	196	173	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2
Test Date	Jul. 26, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11419.80	60.36	74.00	-13.64	44.22	10.69	38.82	33.37	154	160	Peak	HORIZONTAL
2	11419.81	48.52	54.00	-5.48	32.38	10.69	38.82	33.37	154	160	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11419.82	48.57	54.00	-5.43	32.43	10.69	38.82	33.37	122	174	Average	VERTICAL
2	11422.06	62.59	74.00	-11.41	46.45	10.69	38.82	33.37	122	174	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2
Test Date	Jul. 26, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11380.03	56.61	74.00	-17.39	40.52	10.68	38.78	33.37	123	189 Peak	HORIZONTAL
2	11382.50	44.14	54.00	-9.86	28.05	10.68	38.78	33.37	123	189 Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11377.84	43.86	54.00	-10.14	27.78	10.68	38.77	33.37	165	199 Average	VERTICAL
2	11381.55	57.58	74.00	-16.42	41.49	10.68	38.78	33.37	165	199 Peak	VERTICAL

Note:

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

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

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



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15540.29	58.60	74.00	-15.40	41.58	12.58	38.14	33.70	152	330	Peak	HORIZONTAL
2	15549.94	45.29	54.00	-8.71	28.32	12.58	38.12	33.73	152	330	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15535.71	46.47	54.00	-7.53	29.45	12.58	38.14	33.70	148	327	Average	VERTICAL
2	15542.56	59.09	74.00	-14.91	42.07	12.58	38.14	33.70	148	327	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15596.70	59.20	74.00	-14.80	42.34	12.58	38.03	33.75	151	8	Peak	HORIZONTAL
2	15599.04	47.03	54.00	-6.97	30.20	12.58	38.03	33.78	151	8	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15595.45	45.46	54.00	-8.54	28.60	12.58	38.03	33.75	153	311	Average	VERTICAL
2	15604.62	57.73	74.00	-16.27	40.90	12.58	38.03	33.78	153	311	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15718.88	45.37	54.00	-8.63	28.84	12.57	37.84	33.88	151	274	Average	HORIZONTAL
2	15721.06	58.15	74.00	-15.85	41.62	12.57	37.84	33.88	151	274	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15724.17	59.08	74.00	-14.92	42.55	12.57	37.84	33.88	150	285	Peak	VERTICAL
2	15727.50	45.31	54.00	-8.69	28.80	12.57	37.84	33.90	150	285	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15778.33	47.22	54.00	-6.78	30.84	12.57	37.76	33.95	150	250	Average	HORIZONTAL
2	15780.54	60.67	74.00	-13.33	44.29	12.57	37.76	33.95	150	250	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15775.22	45.95	54.00	-8.05	29.55	12.57	37.76	33.93	152	263	Average	VERTICAL
2	15776.63	58.54	74.00	-15.46	42.14	12.57	37.76	33.93	152	263	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 60 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10600.26	55.12	74.00	-18.88	40.19	10.16	38.40	33.63	157	169	Peak	HORIZONTAL
2	10609.29	42.53	54.00	-11.47	27.56	10.19	38.40	33.62	157	169	Average	HORIZONTAL
3	15895.64	57.93	74.00	-16.07	41.84	12.57	37.57	34.05	158	157	Peak	HORIZONTAL
4	15900.32	44.19	54.00	-9.81	28.10	12.57	37.57	34.05	158	157	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10607.05	43.02	54.00	-10.98	28.05	10.19	38.40	33.62	157	180	Average	VERTICAL
2	10607.12	54.86	74.00	-19.14	39.89	10.19	38.40	33.62	157	180	Peak	VERTICAL
3	15904.58	59.37	74.00	-14.63	43.31	12.57	37.54	34.05	159	190	Peak	VERTICAL
4	15905.87	45.74	54.00	-8.26	29.72	12.56	37.54	34.08	159	190	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 64 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10642.98	56.15	74.00	-17.85	41.14	10.21	38.40	33.60	155	126	Peak	HORIZONTAL
2	10646.54	42.95	54.00	-11.05	27.94	10.21	38.40	33.60	155	126	Average	HORIZONTAL
3	15954.52	57.79	74.00	-16.21	41.87	12.56	37.46	34.10	151	114	Peak	HORIZONTAL
4	15957.12	44.80	54.00	-9.20	28.91	12.56	37.46	34.13	151	114	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10637.95	55.81	74.00	-18.19	40.80	10.21	38.40	33.60	156	144	Peak	VERTICAL
2	10645.45	43.11	54.00	-10.89	28.10	10.21	38.40	33.60	156	144	Average	VERTICAL
3	15954.46	58.61	74.00	-15.39	42.69	12.56	37.46	34.10	153	100	Peak	VERTICAL
4	15960.71	44.85	54.00	-9.15	28.96	12.56	37.46	34.13	153	100	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10997.72	57.01	74.00	-16.99	41.44	10.55	38.40	33.38	154	71 Peak	HORIZONTAL
2	10999.62	43.59	54.00	-10.41	28.02	10.55	38.40	33.38	154	71 Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11006.31	43.49	54.00	-10.51	27.90	10.55	38.42	33.38	154	89 Average	VERTICAL
2	11009.55	55.94	74.00	-18.06	40.34	10.56	38.42	33.38	154	89 Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 116 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11159.87	59.48	74.00	-14.52	43.69	10.60	38.57	33.38	151	14 Peak	HORIZONTAL
2	11161.92	46.31	54.00	-7.69	30.51	10.61	38.57	33.38	151	14 Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11159.58	56.73	74.00	-17.27	40.94	10.60	38.57	33.38	151	82 Peak	VERTICAL
2	11160.96	44.57	54.00	-9.43	28.78	10.60	38.57	33.38	151	82 Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 140 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11391.57	57.25	74.00	-16.75	41.15	10.69	38.78	33.37	150	81	Peak	HORIZONTAL
2	11393.33	44.39	54.00	-9.61	28.29	10.69	38.78	33.37	150	81	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11396.25	58.60	74.00	-15.40	42.48	10.69	38.80	33.37	151	60	Peak	VERTICAL
2	11398.56	45.34	54.00	-8.66	29.22	10.69	38.80	33.37	151	60	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11484.36	56.89	74.00	-17.11	40.67	10.71	38.88	33.37	153	156 Peak	HORIZONTAL
2	11485.35	44.42	54.00	-9.58	28.20	10.71	38.88	33.37	153	156 Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11486.03	44.29	54.00	-9.71	28.07	10.71	38.88	33.37	153	133 Average	VERTICAL
2	11489.04	57.15	74.00	-16.85	40.93	10.71	38.88	33.37	153	133 Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11572.02	51.80	54.00	-2.20	35.49	10.76	38.94	33.39	161	295	Average	HORIZONTAL
2	11575.64	65.45	74.00	-8.55	49.14	10.76	38.94	33.39	161	295	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11570.10	46.62	54.00	-7.38	30.31	10.76	38.94	33.39	156	359	Average	VERTICAL
2	11576.57	60.11	74.00	-13.89	43.80	10.76	38.94	33.39	156	359	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11644.94	56.82	74.00	-17.18	40.45	10.79	38.98	33.40	152	199	Peak	HORIZONTAL
2	11660.00	44.21	54.00	-9.79	27.82	10.81	38.99	33.41	152	199	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11642.34	44.17	54.00	-9.83	27.80	10.79	38.98	33.40	147	176	Average	VERTICAL
2	11657.88	56.86	74.00	-17.14	40.47	10.81	38.99	33.41	147	176	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15567.60	58.46	74.00	-15.54	41.52	12.58	38.09	33.73	154	323	Peak	HORIZONTAL
2	15574.68	45.53	54.00	-8.47	28.61	12.58	38.09	33.75	154	323	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15575.77	45.48	54.00	-8.52	28.56	12.58	38.09	33.75	152	338	Average	VERTICAL
2	15576.25	58.11	74.00	-15.89	41.19	12.58	38.09	33.75	152	338	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15684.68	45.80	54.00	-8.20	29.17	12.58	37.90	33.85	152	175	Average	HORIZONTAL
2	15685.74	58.23	74.00	-15.77	41.60	12.58	37.90	33.85	152	175	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15690.77	45.86	54.00	-8.14	29.23	12.58	37.90	33.85	154	4	Average	VERTICAL
2	15692.44	58.90	74.00	-15.10	42.27	12.58	37.90	33.85	154	4	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15803.62	57.66	74.00	-16.34	41.37	12.57	37.70	33.98	155	222	Peak	HORIZONTAL
2	15805.03	44.91	54.00	-9.09	28.62	12.57	37.70	33.98	155	222	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15800.64	57.89	74.00	-16.11	41.57	12.57	37.70	33.95	153	193	Peak	VERTICAL
2	15805.71	45.37	54.00	-8.63	29.08	12.57	37.70	33.98	153	193	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 62 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10618.08	56.16	74.00	-17.84	41.19	10.19	38.40	33.62	151	314	Peak	HORIZONTAL
2	10624.49	43.10	54.00	-10.90	28.13	10.19	38.40	33.62	151	314	Average	HORIZONTAL
3	15925.03	58.10	74.00	-15.90	42.11	12.56	37.51	34.08	153	295	Peak	HORIZONTAL
4	15926.35	45.01	54.00	-8.99	29.02	12.56	37.51	34.08	153	295	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10626.44	55.79	74.00	-18.21	40.78	10.21	38.40	33.60	153	256	Peak	VERTICAL
2	10627.44	43.31	54.00	-10.69	28.30	10.21	38.40	33.60	153	256	Average	VERTICAL
3	15926.12	58.43	74.00	-15.57	42.44	12.56	37.51	34.08	151	274	Peak	VERTICAL
4	15936.79	45.09	54.00	-8.91	29.15	12.56	37.48	34.10	151	274	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11012.12	56.35	74.00	-17.65	40.75	10.56	38.42	33.38	152	271	Peak	HORIZONTAL
2	11013.43	43.38	54.00	-10.62	27.78	10.56	38.42	33.38	152	271	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11014.71	43.55	54.00	-10.45	27.95	10.56	38.42	33.38	151	252	Average	VERTICAL
2	11014.81	56.12	74.00	-17.88	40.52	10.56	38.42	33.38	151	252	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 110 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11095.35	56.15	74.00	-17.85	40.45	10.58	38.50	33.38	154	315	Peak	HORIZONTAL
2	11103.14	43.43	54.00	-10.57	27.73	10.58	38.50	33.38	154	315	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11092.98	56.67	74.00	-17.33	40.97	10.58	38.50	33.38	152	334	Peak	VERTICAL
2	11105.26	43.59	54.00	-10.41	27.89	10.58	38.50	33.38	152	334	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 134 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11336.57	56.85	74.00	-17.15	40.83	10.66	38.73	33.37	151	276	Peak	HORIZONTAL
2	11342.40	43.89	54.00	-10.11	27.86	10.67	38.73	33.37	151	276	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11331.70	56.76	74.00	-17.24	40.74	10.66	38.73	33.37	153	293	Peak	VERTICAL
2	11338.11	44.26	54.00	-9.74	28.24	10.66	38.73	33.37	153	293	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11486.04	44.07	54.00	-9.93	27.85	10.71	38.88	33.37	151	208	Average	HORIZONTAL
2	11507.84	57.07	74.00	-16.93	40.82	10.72	38.90	33.37	151	208	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11493.01	57.19	74.00	-16.81	40.97	10.71	38.88	33.37	152	225	Peak	VERTICAL
2	11501.43	44.43	54.00	-9.57	28.18	10.72	38.90	33.37	152	225	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11585.77	44.25	54.00	-9.75	27.93	10.76	38.95	33.39	152	238	Average	HORIZONTAL
2	11589.68	57.29	74.00	-16.71	40.97	10.76	38.95	33.39	152	238	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11580.22	44.11	54.00	-9.89	27.80	10.76	38.94	33.39	152	215	Average	VERTICAL
2	11581.22	56.99	74.00	-17.01	40.68	10.76	38.94	33.39	152	215	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15632.02	58.56	74.00	-15.44	41.80	12.58	37.98	33.80	152	277	Peak	HORIZONTAL
2	15635.22	45.54	54.00	-8.46	28.78	12.58	37.98	33.80	152	277	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15626.54	45.63	54.00	-8.37	28.84	12.58	38.01	33.80	154	253	Average	VERTICAL
2	15630.67	59.14	74.00	-14.86	42.38	12.58	37.98	33.80	154	253	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15869.65	58.47	74.00	-15.53	42.34	12.57	37.59	34.03	153	277	Peak	HORIZONTAL
2	15878.56	45.23	54.00	-8.77	29.10	12.57	37.59	34.03	153	277	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15865.64	57.84	74.00	-16.16	41.68	12.57	37.62	34.03	154	257	Peak	VERTICAL
2	15877.56	45.38	54.00	-8.62	29.25	12.57	37.59	34.03	154	257	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11059.81	56.48	74.00	-17.52	40.81	10.58	38.47	33.38	150	319	Peak	HORIZONTAL
2	11067.50	43.24	54.00	-10.76	27.57	10.58	38.47	33.38	150	319	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11056.15	56.45	74.00	-17.55	40.79	10.57	38.47	33.38	151	298	Peak	VERTICAL
2	11058.94	43.44	54.00	-10.56	27.78	10.57	38.47	33.38	151	298	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 122 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11211.06	43.12	54.00	-10.88	27.26	10.62	38.62	33.38	153	315	Average	HORIZONTAL
2	11225.54	57.30	74.00	-16.70	41.42	10.63	38.63	33.38	153	315	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11211.15	56.37	74.00	-17.63	40.51	10.62	38.62	33.38	152	339	Peak	VERTICAL
2	11226.73	43.37	54.00	-10.63	27.49	10.63	38.63	33.38	152	339	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11569.87	56.78	74.00	-17.22	40.47	10.76	38.94	33.39	154	298	Peak	HORIZONTAL
2	11574.84	44.25	54.00	-9.75	27.94	10.76	38.94	33.39	154	298	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11533.49	57.08	74.00	-16.92	40.81	10.73	38.92	33.38	153	314	Peak	VERTICAL
2	11549.52	44.32	54.00	-9.68	28.02	10.75	38.93	33.38	153	314	Average	VERTICAL



Straddle Channel

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11439.42	52.78	54.00	-1.22	36.63	10.69	38.83	33.37	152	290	Average	HORIZONTAL
2	11443.59	67.80	74.00	-6.20	51.64	10.70	38.83	33.37	152	290	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11437.21	50.07	54.00	-3.93	33.92	10.69	38.83	33.37	153	225	Average	VERTICAL
2	11437.37	63.53	74.00	-10.47	47.38	10.69	38.83	33.37	153	225	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11426.49	48.88	54.00	-5.12	32.74	10.69	38.82	33.37	152	198	Average	HORIZONTAL
2	11429.29	61.13	74.00	-12.87	44.99	10.69	38.82	33.37	152	198	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11430.18	51.74	54.00	-2.26	35.59	10.69	38.83	33.37	157	296	Average	VERTICAL
2	11434.58	64.35	74.00	-9.65	48.20	10.69	38.83	33.37	157	296	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1
Test Date	Jul. 30, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 1TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11394.90	48.49	54.00	-5.51	32.39	10.69	38.78	33.37	152	292	Average	HORIZONTAL
2	11396.75	61.08	74.00	-12.92	44.96	10.69	38.80	33.37	152	292	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11393.46	45.15	54.00	-8.85	29.05	10.69	38.78	33.37	150	32	Average	VERTICAL
2	11398.67	57.97	74.00	-16.03	41.85	10.69	38.80	33.37	150	32	Peak	VERTICAL

Note:

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

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

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



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15534.68	59.44	74.00	-14.56	42.42	12.58	38.14	33.70	149	1 Peak	HORIZONTAL
2	15540.45	47.17	54.00	-6.83	30.15	12.58	38.14	33.70	149	1 Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15530.54	60.48	74.00	-13.52	43.46	12.58	38.14	33.70	153	1 Peak	VERTICAL
2	15540.99	47.34	54.00	-6.66	30.32	12.58	38.14	33.70	153	1 Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15602.98	47.29	54.00	-6.71	30.46	12.58	38.03	33.78	157	140	Average	HORIZONTAL
2	15604.84	59.78	74.00	-14.22	42.95	12.58	38.03	33.78	157	140	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15596.70	47.63	54.00	-6.37	30.77	12.58	38.03	33.75	165	61	Average	VERTICAL
2	15598.43	60.89	74.00	-13.11	44.03	12.58	38.03	33.75	165	61	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15710.71	59.42	74.00	-14.58	42.86	12.57	37.87	33.88	152	209	Peak	HORIZONTAL
2	15718.01	47.21	54.00	-6.79	30.68	12.57	37.84	33.88	152	209	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15714.65	47.32	54.00	-6.68	30.79	12.57	37.84	33.88	157	247	Average	VERTICAL
2	15716.51	59.36	74.00	-14.64	42.83	12.57	37.84	33.88	157	247	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15777.63	50.70	54.00	-3.30	34.32	12.57	37.76	33.95	158	191	Average	HORIZONTAL
2	15777.76	64.11	74.00	-9.89	47.73	12.57	37.76	33.95	158	191	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15774.87	61.69	74.00	-12.31	45.29	12.57	37.76	33.93	148	155	Peak	VERTICAL
2	15779.46	48.91	54.00	-5.09	32.53	12.57	37.76	33.95	148	155	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 60 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10599.26	46.49	54.00	-7.51	31.56	10.16	38.40	33.63	161	347	Average	HORIZONTAL
2	10599.84	58.98	74.00	-15.02	44.05	10.16	38.40	33.63	161	347	Peak	HORIZONTAL
3	15899.74	48.60	54.00	-5.40	32.51	12.57	37.57	34.05	129	314	Average	HORIZONTAL
4	15899.97	62.40	74.00	-11.60	46.31	12.57	37.57	34.05	129	314	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10599.33	59.46	74.00	-14.54	44.53	10.16	38.40	33.63	150	231	Peak	VERTICAL
2	10599.39	46.78	54.00	-7.22	31.85	10.16	38.40	33.63	150	231	Average	VERTICAL
3	15892.47	59.54	74.00	-14.46	43.45	12.57	37.57	34.05	153	178	Peak	VERTICAL
4	15900.00	47.00	54.00	-7.00	30.91	12.57	37.57	34.05	153	178	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 64 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10637.08	45.04	54.00	-8.96	30.03	10.21	38.40	33.60	156	199	Average	HORIZONTAL
2	10648.56	57.22	74.00	-16.78	42.21	10.21	38.40	33.60	156	199	Peak	HORIZONTAL
3	15958.62	58.51	74.00	-15.49	42.62	12.56	37.46	34.13	163	94	Peak	HORIZONTAL
4	15962.60	46.43	54.00	-7.57	30.54	12.56	37.46	34.13	163	94	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10634.94	57.38	74.00	-16.62	42.37	10.21	38.40	33.60	147	109	Peak	VERTICAL
2	10636.83	45.09	54.00	-8.91	30.08	10.21	38.40	33.60	147	109	Average	VERTICAL
3	15960.48	59.11	74.00	-14.89	43.22	12.56	37.46	34.13	171	202	Peak	VERTICAL
4	15961.70	46.24	54.00	-7.76	30.35	12.56	37.46	34.13	171	202	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11007.15	45.30	54.00	-8.70	29.71	10.55	38.42	33.38	142	90 Average	HORIZONTAL
2	11008.56	57.62	74.00	-16.38	42.03	10.55	38.42	33.38	142	90 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10991.76	57.25	74.00	-16.75	41.68	10.55	38.40	33.38	165	198 Peak	VERTICAL
2	11009.74	45.27	54.00	-8.73	29.67	10.56	38.42	33.38	165	198 Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 116 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11159.33	58.81	74.00	-15.19	43.02	10.60	38.57	33.38	157	306	Peak	HORIZONTAL
2	11159.49	47.13	54.00	-6.87	31.34	10.60	38.57	33.38	157	306	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11159.52	58.86	74.00	-15.14	43.07	10.60	38.57	33.38	160	307	Peak	VERTICAL
2	11161.86	46.14	54.00	-7.86	30.34	10.61	38.57	33.38	160	307	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 140 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11391.54	57.61	74.00	-16.39	41.51	10.69	38.78	33.37	154	267	Peak	HORIZONTAL
2	11391.63	44.76	54.00	-9.24	28.66	10.69	38.78	33.37	154	267	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11398.01	57.65	74.00	-16.35	41.53	10.69	38.80	33.37	170	213	Peak	VERTICAL
2	11402.28	44.35	54.00	-9.65	28.23	10.69	38.80	33.37	170	213	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11489.68	45.35	54.00	-8.65	29.13	10.71	38.88	33.37	167	128	Average	HORIZONTAL
2	11492.53	60.18	74.00	-13.82	43.96	10.71	38.88	33.37	167	128	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11486.79	58.82	74.00	-15.18	42.60	10.71	38.88	33.37	165	144	Peak	VERTICAL
2	11489.39	45.06	54.00	-8.94	28.84	10.71	38.88	33.37	165	144	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11572.18	65.58	74.00	-8.42	49.27	10.76	38.94	33.39	167	298	Peak	HORIZONTAL
2	11572.21	52.21	54.00	-1.79	35.90	10.76	38.94	33.39	167	298	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11569.71	48.09	54.00	-5.91	31.78	10.75	38.94	33.38	171	207	Average	VERTICAL
2	11574.78	61.37	74.00	-12.63	45.06	10.76	38.94	33.39	171	207	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11653.81	44.23	54.00	-9.77	27.84	10.81	38.99	33.41	157	284	Average	HORIZONTAL
2	11658.62	57.08	74.00	-16.92	40.69	10.81	38.99	33.41	157	284	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11644.68	44.21	54.00	-9.79	27.84	10.79	38.98	33.40	157	307	Average	VERTICAL
2	11655.26	57.21	74.00	-16.79	40.82	10.81	38.99	33.41	157	307	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15574.74	59.37	74.00	-14.63	42.45	12.58	38.09	33.75	159	238	Peak	HORIZONTAL
2	15578.46	45.50	54.00	-8.50	28.61	12.58	38.06	33.75	159	238	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15571.99	58.46	74.00	-15.54	41.52	12.58	38.09	33.73	157	262	Peak	VERTICAL
2	15572.63	45.36	54.00	-8.64	28.42	12.58	38.09	33.73	157	262	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15685.26	60.42	74.00	-13.58	43.79	12.58	37.90	33.85	151	191	Peak	HORIZONTAL
2	15698.14	47.12	54.00	-6.88	30.52	12.58	37.87	33.85	151	191	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15683.75	58.80	74.00	-15.20	42.17	12.58	37.90	33.85	153	214	Peak	VERTICAL
2	15698.01	45.75	54.00	-8.25	29.15	12.58	37.87	33.85	153	214	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15807.31	61.19	74.00	-12.81	44.90	12.57	37.70	33.98	160	324	Peak	HORIZONTAL
2	15809.68	47.86	54.00	-6.14	31.57	12.57	37.70	33.98	160	324	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15802.12	45.18	54.00	-8.82	28.86	12.57	37.70	33.95	158	306	Average	VERTICAL
2	15816.63	58.21	74.00	-15.79	41.94	12.57	37.68	33.98	158	306	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 62 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10612.02	43.06	54.00	-10.94	28.09	10.19	38.40	33.62	158	275	Average	HORIZONTAL
2	10620.54	55.54	74.00	-18.46	40.57	10.19	38.40	33.62	158	275	Peak	HORIZONTAL
3	15929.68	45.09	54.00	-8.91	29.10	12.56	37.51	34.08	152	279	Average	HORIZONTAL
4	15934.52	59.06	74.00	-14.94	43.12	12.56	37.48	34.10	152	279	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10610.16	55.93	74.00	-18.07	40.96	10.19	38.40	33.62	151	282	Peak	VERTICAL
2	10618.75	42.78	54.00	-11.22	27.81	10.19	38.40	33.62	151	282	Average	VERTICAL
3	15933.43	57.99	74.00	-16.01	42.02	12.56	37.51	34.10	154	258	Peak	VERTICAL
4	15933.49	45.09	54.00	-8.91	29.12	12.56	37.51	34.10	154	258	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11023.69	43.35	54.00	-10.65	27.74	10.56	38.43	33.38	149	304	Average	HORIZONTAL
2	11027.47	56.74	74.00	-17.26	41.13	10.56	38.43	33.38	149	304	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11021.86	43.29	54.00	-10.71	27.68	10.56	38.43	33.38	187	288	Average	VERTICAL
2	11028.65	56.53	74.00	-17.47	40.92	10.56	38.43	33.38	187	288	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 110 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11094.07	55.91	74.00	-18.09	40.21	10.58	38.50	33.38	154	284	Peak	HORIZONTAL
2	11097.08	43.22	54.00	-10.78	27.52	10.58	38.50	33.38	154	284	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11101.63	43.08	54.00	-10.92	27.38	10.58	38.50	33.38	152	306	Average	VERTICAL
2	11106.70	56.36	74.00	-17.64	40.64	10.58	38.52	33.38	152	306	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 134 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11344.62	44.89	54.00	-9.11	28.84	10.67	38.75	33.37	155	323	Average	HORIZONTAL
2	11344.65	57.46	74.00	-16.54	41.41	10.67	38.75	33.37	155	323	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11346.70	57.69	74.00	-16.31	41.64	10.67	38.75	33.37	152	303	Peak	VERTICAL
2	11347.69	43.68	54.00	-10.32	27.63	10.67	38.75	33.37	152	303	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11500.93	44.19	54.00	-9.81	27.94	10.72	38.90	33.37	158	309	Average	HORIZONTAL
2	11511.99	56.59	74.00	-17.41	40.34	10.72	38.90	33.37	158	309	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11502.15	43.90	54.00	-10.10	27.65	10.72	38.90	33.37	156	329	Average	VERTICAL
2	11511.57	57.40	74.00	-16.60	41.15	10.72	38.90	33.37	156	329	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11589.81	45.78	54.00	-8.22	29.46	10.76	38.95	33.39	154	316	Average	HORIZONTAL
2	11594.74	59.00	74.00	-15.00	42.68	10.76	38.95	33.39	154	316	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11582.34	57.01	74.00	-16.99	40.70	10.76	38.94	33.39	153	295	Peak	VERTICAL
2	11587.63	43.75	54.00	-10.25	27.43	10.76	38.95	33.39	153	295	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15627.63	59.10	74.00	-14.90	42.31	12.58	38.01	33.80	151	322	Peak	HORIZONTAL
2	15635.51	45.54	54.00	-8.46	28.78	12.58	37.98	33.80	151	322	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15623.94	58.58	74.00	-15.42	41.77	12.58	38.01	33.78	151	301	Peak	VERTICAL
2	15634.46	45.39	54.00	-8.61	28.63	12.58	37.98	33.80	151	301	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	15866.57	58.11	74.00	-15.89	41.98	12.57	37.59	34.03	154	279	Peak	HORIZONTAL
2	15870.54	45.08	54.00	-8.92	28.95	12.57	37.59	34.03	154	279	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	15863.85	45.11	54.00	-8.89	28.95	12.57	37.62	34.03	160	259	Average	VERTICAL
2	15864.90	58.06	74.00	-15.94	41.90	12.57	37.62	34.03	160	259	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11057.31	43.30	54.00	-10.70	27.64	10.57	38.47	33.38	155	236	Average	HORIZONTAL
2	11065.10	56.12	74.00	-17.88	40.45	10.58	38.47	33.38	155	236	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11053.40	42.91	54.00	-11.09	27.27	10.57	38.45	33.38	153	211	Average	VERTICAL
2	11069.74	56.45	74.00	-17.55	40.78	10.58	38.47	33.38	153	211	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 122 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11224.52	55.59	74.00	-18.41	39.72	10.63	38.62	33.38	154	194	Peak	HORIZONTAL
2	11227.47	43.22	54.00	-10.78	27.34	10.63	38.63	33.38	154	194	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11219.10	43.02	54.00	-10.98	27.15	10.63	38.62	33.38	154	222	Average	VERTICAL
2	11222.40	55.96	74.00	-18.04	40.09	10.63	38.62	33.38	154	222	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11554.23	43.94	54.00	-10.06	27.64	10.75	38.93	33.38	150	131	Average	HORIZONTAL
2	11554.52	56.94	74.00	-17.06	40.64	10.75	38.93	33.38	150	131	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11546.83	56.56	74.00	-17.44	40.27	10.75	38.92	33.38	160	151	Peak	VERTICAL
2	11553.40	43.66	54.00	-10.34	27.36	10.75	38.93	33.38	160	151	Average	VERTICAL

Straddle Channel

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11437.31	67.10	74.00	-6.90	50.95	10.69	38.83	33.37	162	128	Peak	HORIZONTAL
2	11439.58	52.99	54.00	-1.01	36.84	10.69	38.83	33.37	162	128	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11437.28	65.71	74.00	-8.29	49.56	10.69	38.83	33.37	163	260	Peak	VERTICAL
2	11439.46	51.98	54.00	-2.02	35.83	10.69	38.83	33.37	163	260	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11427.15	50.85	54.00	-3.15	34.71	10.69	38.82	33.37	175	259	Average	HORIZONTAL
2	11427.15	64.05	74.00	-9.95	47.91	10.69	38.82	33.37	175	259	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11427.28	46.58	54.00	-7.42	30.44	10.69	38.82	33.37	160	285	Average	VERTICAL
2	11430.00	59.28	74.00	-14.72	43.13	10.69	38.83	33.37	160	285	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2
Test Date	Aug. 04, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11389.17	60.42	74.00	-13.58	44.33	10.68	38.78	33.37	151	124	Peak	HORIZONTAL
2	11389.49	47.67	54.00	-6.33	31.58	10.68	38.78	33.37	151	124	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11388.53	58.00	74.00	-16.00	41.91	10.68	38.78	33.37	150	159	Peak	VERTICAL
2	11388.81	44.73	54.00	-9.27	28.64	10.68	38.78	33.37	150	159	Average	VERTICAL

Note:

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

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

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

<For Beamforming Mode>

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15530.22	60.02	74.00	-13.98	43.00	12.58	38.14	33.70	123	150	Peak	HORIZONTAL
2	15547.67	46.83	54.00	-7.17	29.83	12.58	38.12	33.70	123	150	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15544.66	59.80	74.00	-14.20	42.80	12.58	38.12	33.70	131	230	Peak	VERTICAL
2	15546.08	46.96	54.00	-7.04	29.96	12.58	38.12	33.70	131	230	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15599.97	48.38	54.00	-5.62	31.55	12.58	38.03	33.78	148	217	Average	HORIZONTAL
2	15605.73	61.75	74.00	-12.25	44.92	12.58	38.03	33.78	148	217	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15590.97	46.90	54.00	-7.10	30.01	12.58	38.06	33.75	163	312	Average	VERTICAL
2	15594.04	59.76	74.00	-14.24	42.87	12.58	38.06	33.75	163	312	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15710.71	59.79	74.00	-14.21	43.23	12.57	37.87	33.88	137	162	Peak	HORIZONTAL
2	15724.60	47.52	54.00	-6.48	30.99	12.57	37.84	33.88	137	162	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15720.29	59.44	74.00	-14.56	42.91	12.57	37.84	33.88	155	258	Peak	VERTICAL
2	15720.75	46.42	54.00	-7.58	29.89	12.57	37.84	33.88	155	258	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15781.25	60.25	74.00	-13.75	43.87	12.57	37.76	33.95	168	243	Peak	HORIZONTAL
2	15783.21	48.04	54.00	-5.96	31.69	12.57	37.73	33.95	168	243	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15779.80	46.89	54.00	-7.11	30.51	12.57	37.76	33.95	158	135	Average	VERTICAL
2	15785.82	60.00	74.00	-14.00	43.65	12.57	37.73	33.95	158	135	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 60 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10593.46	43.42	54.00	-10.58	28.49	10.16	38.40	33.63	146	237	Average	HORIZONTAL
2	10599.48	56.75	74.00	-17.25	41.82	10.16	38.40	33.63	146	237	Peak	HORIZONTAL
3	15893.49	60.51	74.00	-13.49	44.42	12.57	37.57	34.05	162	183	Peak	HORIZONTAL
4	15894.47	47.01	54.00	-6.99	30.92	12.57	37.57	34.05	162	183	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10590.16	43.44	54.00	-10.56	28.51	10.16	38.40	33.63	169	192	Average	VERTICAL
2	10598.75	57.07	74.00	-16.93	42.14	10.16	38.40	33.63	169	192	Peak	VERTICAL
3	15893.08	47.03	54.00	-6.97	30.94	12.57	37.57	34.05	151	259	Average	VERTICAL
4	15900.12	60.04	74.00	-13.96	43.95	12.57	37.57	34.05	151	259	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 64 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10634.79	56.33	74.00	-17.67	41.32	10.21	38.40	33.60	168	274	Peak	HORIZONTAL
2	10648.80	43.58	54.00	-10.42	28.57	10.21	38.40	33.60	168	274	Average	HORIZONTAL
3	15958.41	59.31	74.00	-14.69	43.42	12.56	37.46	34.13	186	320	Peak	HORIZONTAL
4	15965.21	46.40	54.00	-7.60	30.51	12.56	37.46	34.13	186	320	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10633.03	56.29	74.00	-17.71	41.28	10.21	38.40	33.60	150	298	Peak	VERTICAL
2	10640.26	43.55	54.00	-10.45	28.54	10.21	38.40	33.60	150	298	Average	VERTICAL
3	15959.48	46.34	54.00	-7.66	30.45	12.56	37.46	34.13	169	249	Average	VERTICAL
4	15963.39	59.45	74.00	-14.55	43.56	12.56	37.46	34.13	169	249	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	10998.00	56.32	74.00	-17.68	40.75	10.55	38.40	33.38	158	332	Peak	HORIZONTAL
2	11001.36	43.75	54.00	-10.25	28.18	10.55	38.40	33.38	158	332	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	10997.57	56.90	74.00	-17.10	41.33	10.55	38.40	33.38	176	237	Peak	VERTICAL
2	11008.68	43.69	54.00	-10.31	28.10	10.55	38.42	33.38	176	237	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 116 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11163.39	56.73	74.00	-17.27	40.93	10.61	38.57	33.38	171	277	Peak	HORIZONTAL
2	11165.07	44.14	54.00	-9.86	28.34	10.61	38.57	33.38	171	277	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11154.50	57.53	74.00	-16.47	41.76	10.60	38.55	33.38	152	199	Peak	VERTICAL
2	11155.51	44.12	54.00	-9.88	28.35	10.60	38.55	33.38	152	199	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 140 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11399.48	44.62	54.00	-9.38	28.50	10.69	38.80	33.37	153	75	Average	HORIZONTAL
2	11408.25	57.27	74.00	-16.73	41.15	10.69	38.80	33.37	153	75	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11394.33	44.57	54.00	-9.43	28.47	10.69	38.78	33.37	168	161	Average	VERTICAL
2	11398.96	57.85	74.00	-16.15	41.73	10.69	38.80	33.37	168	161	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11485.28	56.52	74.00	-17.48	40.30	10.71	38.88	33.37	138	220	Peak	HORIZONTAL
2	11487.97	43.82	54.00	-10.18	27.60	10.71	38.88	33.37	138	220	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11482.79	56.26	74.00	-17.74	40.04	10.71	38.88	33.37	162	86	Peak	VERTICAL
2	11495.67	43.92	54.00	-10.08	27.69	10.72	38.88	33.37	162	86	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11566.61	58.35	74.00	-15.65	42.04	10.75	38.94	33.38	161	166	Peak	HORIZONTAL
2	11572.89	46.61	54.00	-7.39	30.30	10.76	38.94	33.39	161	166	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11565.77	57.61	74.00	-16.39	41.30	10.75	38.94	33.38	160	34	Peak	VERTICAL
2	11567.97	44.58	54.00	-9.42	28.27	10.75	38.94	33.38	160	34	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11656.51	58.20	74.00	-15.80	41.81	10.81	38.99	33.41	148	146	Peak	HORIZONTAL
2	11658.65	44.53	54.00	-9.47	28.14	10.81	38.99	33.41	148	146	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11643.23	58.02	74.00	-15.98	41.65	10.79	38.98	33.40	146	93	Peak	VERTICAL
2	11649.36	44.54	54.00	-9.46	28.16	10.81	38.98	33.41	146	93	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	15573.59	59.65	74.00	-14.35	42.73	12.58	38.09	33.75	147	183	Peak	HORIZONTAL
2	15574.05	46.84	54.00	-7.16	29.92	12.58	38.09	33.75	147	183	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	15561.84	46.91	54.00	-7.09	29.97	12.58	38.09	33.73	158	292	Average	VERTICAL
2	15564.50	59.85	74.00	-14.15	42.91	12.58	38.09	33.73	158	292	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15684.38	46.60	54.00	-7.40	29.97	12.58	37.90	33.85	140	110	Average	HORIZONTAL
2	15691.65	60.00	74.00	-14.00	43.37	12.58	37.90	33.85	140	110	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15682.30	46.59	54.00	-7.41	29.96	12.58	37.90	33.85	139	221	Average	VERTICAL
2	15690.32	59.50	74.00	-14.50	42.87	12.58	37.90	33.85	139	221	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15814.69	46.77	54.00	-7.23	30.48	12.57	37.70	33.98	157	150	Average	HORIZONTAL
2	15816.22	59.47	74.00	-14.53	43.20	12.57	37.68	33.98	157	150	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15801.92	59.72	74.00	-14.28	43.40	12.57	37.70	33.95	146	272	Peak	VERTICAL
2	15809.83	46.74	54.00	-7.26	30.45	12.57	37.70	33.98	146	272	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 62 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10614.64	43.48	54.00	-10.52	28.51	10.19	38.40	33.62	157	216	Average	HORIZONTAL
2	10616.61	57.10	74.00	-16.90	42.13	10.19	38.40	33.62	157	216	Peak	HORIZONTAL
3	15922.71	46.61	54.00	-7.39	30.62	12.56	37.51	34.08	143	185	Average	HORIZONTAL
4	15923.55	60.94	74.00	-13.06	44.95	12.56	37.51	34.08	143	185	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10619.88	43.49	54.00	-10.51	28.52	10.19	38.40	33.62	130	226	Average	VERTICAL
2	10620.03	57.31	74.00	-16.69	42.34	10.19	38.40	33.62	130	226	Peak	VERTICAL
3	15922.21	59.64	74.00	-14.36	43.65	12.56	37.51	34.08	147	268	Peak	VERTICAL
4	15925.08	46.60	54.00	-7.40	30.61	12.56	37.51	34.08	147	268	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11012.01	43.64	54.00	-10.36	28.04	10.56	38.42	33.38	143	135	Average	HORIZONTAL
2	11013.46	56.46	74.00	-17.54	40.86	10.56	38.42	33.38	143	135	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11013.60	43.76	54.00	-10.24	28.16	10.56	38.42	33.38	143	109	Average	VERTICAL
2	11028.05	56.69	74.00	-17.31	41.08	10.56	38.43	33.38	143	109	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 110 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11092.30	57.07	74.00	-16.93	41.37	10.58	38.50	33.38	146	198	Peak	HORIZONTAL
2	11101.50	44.02	54.00	-9.98	28.32	10.58	38.50	33.38	146	198	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11103.94	44.01	54.00	-9.99	28.31	10.58	38.50	33.38	155	73	Average	VERTICAL
2	11103.94	53.96	74.00	-20.04	38.26	10.58	38.50	33.38	155	73	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 134 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11336.76	57.21	74.00	-16.79	41.19	10.66	38.73	33.37	160	162	Peak	HORIZONTAL
2	11346.40	44.33	54.00	-9.67	28.28	10.67	38.75	33.37	160	162	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11330.59	44.29	54.00	-9.71	28.27	10.66	38.73	33.37	150	289	Average	VERTICAL
2	11341.65	56.84	74.00	-17.16	40.81	10.67	38.73	33.37	150	289	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11503.52	57.40	74.00	-16.60	41.15	10.72	38.90	33.37	140	303	Peak	HORIZONTAL
2	11509.42	44.13	54.00	-9.87	27.88	10.72	38.90	33.37	140	303	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11512.63	44.25	54.00	-9.75	28.00	10.72	38.90	33.37	155	192	Average	VERTICAL
2	11518.02	57.31	74.00	-16.69	41.05	10.72	38.91	33.37	155	192	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11580.94	44.37	54.00	-9.63	28.06	10.76	38.94	33.39	161	311	Average	HORIZONTAL
2	11599.38	57.30	74.00	-16.70	40.97	10.78	38.95	33.40	161	311	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11580.30	44.27	54.00	-9.73	27.96	10.76	38.94	33.39	169	233	Average	VERTICAL
2	11592.52	57.14	74.00	-16.86	40.82	10.76	38.95	33.39	169	233	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15630.14	59.61	74.00	-14.39	42.85	12.58	37.98	33.80	121	196	Peak	HORIZONTAL
2	15637.70	46.54	54.00	-7.46	29.78	12.58	37.98	33.80	121	196	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15637.35	46.58	54.00	-7.42	29.82	12.58	37.98	33.80	119	311	Average	VERTICAL
2	15638.80	60.19	74.00	-13.81	43.43	12.58	37.98	33.80	119	311	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	15861.14	60.33	74.00	-13.67	44.17	12.57	37.62	34.03	132	252	Peak	HORIZONTAL
2	15877.44	47.03	54.00	-6.97	30.90	12.57	37.59	34.03	132	252	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	15864.73	47.21	54.00	-6.79	31.05	12.57	37.62	34.03	144	348	Average	VERTICAL
2	15872.87	59.69	74.00	-14.31	43.56	12.57	37.59	34.03	144	348	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11050.39	57.06	74.00	-16.94	41.42	10.57	38.45	33.38	115	141	Peak	HORIZONTAL
2	11061.45	44.93	54.00	-9.07	29.26	10.58	38.47	33.38	115	141	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11059.80	56.63	74.00	-17.37	40.96	10.58	38.47	33.38	113	284	Peak	VERTICAL
2	11063.04	43.93	54.00	-10.07	28.26	10.58	38.47	33.38	113	284	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 122 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11211.49	44.03	54.00	-9.97	28.17	10.62	38.62	33.38	130	212	Average	HORIZONTAL
2	11222.14	57.04	74.00	-16.96	41.17	10.63	38.62	33.38	130	212	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11213.81	57.20	74.00	-16.80	41.33	10.63	38.62	33.38	132	306	Peak	VERTICAL
2	11228.31	44.13	54.00	-9.87	28.25	10.63	38.63	33.38	132	306	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11550.90	44.43	54.00	-9.57	28.13	10.75	38.93	33.38	117	116 Average	HORIZONTAL
2	11551.94	57.22	74.00	-16.78	40.92	10.75	38.93	33.38	117	116 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11556.25	57.73	74.00	-16.27	41.43	10.75	38.93	33.38	134	46 Peak	VERTICAL
2	11557.47	45.06	54.00	-8.94	28.76	10.75	38.93	33.38	134	46 Average	VERTICAL



Straddle Channel

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11439.02	51.52	54.00	-2.48	35.37	10.69	38.83	33.37	158	319	Average	HORIZONTAL
2	11440.38	63.17	74.00	-10.83	47.02	10.69	38.83	33.37	158	319	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11432.53	51.07	54.00	-2.93	34.92	10.69	38.83	33.37	174	144	Average	VERTICAL
2	11436.50	64.29	74.00	-9.71	48.14	10.69	38.83	33.37	174	144	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11410.13	47.35	54.00	-6.65	31.23	10.69	38.80	33.37	128	270	Average	HORIZONTAL
2	11418.55	59.06	74.00	-14.94	42.92	10.69	38.82	33.37	128	270	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11414.88	47.32	54.00	-6.68	31.18	10.69	38.82	33.37	114	69	Average	VERTICAL
2	11419.65	59.13	74.00	-14.87	42.99	10.69	38.82	33.37	114	69	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2
Test Date	Jul. 18, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11371.95	57.54	74.00	-16.46	41.46	10.68	38.77	33.37	147	182	Peak	HORIZONTAL
2	11377.05	44.68	54.00	-9.32	28.60	10.68	38.77	33.37	147	182	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11372.85	44.56	54.00	-9.44	28.48	10.68	38.77	33.37	158	250	Average	VERTICAL
2	11389.46	58.09	74.00	-15.91	42.00	10.68	38.78	33.37	158	250	Peak	VERTICAL

Note:

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

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

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



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15535.99	47.29	54.00	-6.71	30.27	12.58	38.14	33.70	137	239 Average	HORIZONTAL
2	15543.49	59.46	74.00	-14.54	42.44	12.58	38.14	33.70	137	239 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15533.01	59.58	74.00	-14.42	42.56	12.58	38.14	33.70	156	23 Peak	VERTICAL
2	15547.28	47.24	54.00	-6.76	30.24	12.58	38.12	33.70	156	23 Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15605.51	48.08	54.00	-5.92	31.25	12.58	38.03	33.78	177	52	Average	HORIZONTAL
2	15607.50	61.15	74.00	-12.85	44.32	12.58	38.03	33.78	177	52	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15592.18	59.89	74.00	-14.11	43.00	12.58	38.06	33.75	156	134	Peak	VERTICAL
2	15602.95	47.18	54.00	-6.82	30.35	12.58	38.03	33.78	156	134	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15711.54	46.97	54.00	-7.03	30.41	12.57	37.87	33.88	197	173	Average	HORIZONTAL
2	15713.49	59.46	74.00	-14.54	42.90	12.57	37.87	33.88	197	173	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15712.18	59.16	74.00	-14.84	42.60	12.57	37.87	33.88	139	248	Peak	VERTICAL
2	15715.38	47.10	54.00	-6.90	30.57	12.57	37.84	33.88	139	248	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15779.57	47.02	54.00	-6.98	30.64	12.57	37.76	33.95	173	63 Average	HORIZONTAL
2	15783.99	59.83	74.00	-14.17	43.48	12.57	37.73	33.95	173	63 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15777.84	59.59	74.00	-14.41	43.21	12.57	37.76	33.95	149	296 Peak	VERTICAL
2	15781.83	46.99	54.00	-7.01	30.64	12.57	37.73	33.95	149	296 Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 60 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10595.10	44.74	54.00	-9.26	29.81	10.16	38.40	33.63	148	264	Average	HORIZONTAL
2	10602.04	58.10	74.00	-15.90	43.13	10.19	38.40	33.62	148	264	Peak	HORIZONTAL
3	15903.30	46.66	54.00	-7.34	30.60	12.57	37.54	34.05	175	87	Average	HORIZONTAL
4	15904.86	60.03	74.00	-13.97	44.01	12.56	37.54	34.08	175	87	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10597.37	57.46	74.00	-16.54	42.53	10.16	38.40	33.63	171	87	Peak	VERTICAL
2	10600.45	44.87	54.00	-9.13	29.94	10.16	38.40	33.63	171	87	Average	VERTICAL
3	15896.73	58.51	74.00	-15.49	42.42	12.57	37.57	34.05	154	271	Peak	VERTICAL
4	15896.76	46.60	54.00	-7.40	30.51	12.57	37.57	34.05	154	271	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 64 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10635.26	57.02	74.00	-16.98	42.01	10.21	38.40	33.60	156	37	Peak	HORIZONTAL
2	10640.00	44.90	54.00	-9.10	29.89	10.21	38.40	33.60	156	37	Average	HORIZONTAL
3	15957.92	46.48	54.00	-7.52	30.59	12.56	37.46	34.13	138	155	Average	HORIZONTAL
4	15963.14	58.95	74.00	-15.05	43.06	12.56	37.46	34.13	138	155	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10641.38	44.77	54.00	-9.23	29.76	10.21	38.40	33.60	124	180	Average	VERTICAL
2	10643.51	56.81	74.00	-17.19	41.80	10.21	38.40	33.60	124	180	Peak	VERTICAL
3	15955.21	46.46	54.00	-7.54	30.54	12.56	37.46	34.10	152	249	Average	VERTICAL
4	15962.95	59.44	74.00	-14.56	43.55	12.56	37.46	34.13	152	249	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10996.46	55.82	74.00	-18.18	40.25	10.55	38.40	33.38	161	263	Peak	HORIZONTAL
2	11003.29	45.01	54.00	-8.99	29.44	10.55	38.40	33.38	161	263	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10995.11	57.68	74.00	-16.32	42.11	10.55	38.40	33.38	144	337	Peak	VERTICAL
2	11004.86	45.35	54.00	-8.65	29.76	10.55	38.42	33.38	144	337	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 116 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11162.61	45.95	54.00	-8.05	30.15	10.61	38.57	33.38	168	24 Average	HORIZONTAL
2	11164.57	57.83	74.00	-16.17	42.03	10.61	38.57	33.38	168	24 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11156.39	58.03	74.00	-15.97	42.26	10.60	38.55	33.38	156	109 Peak	VERTICAL
2	11157.44	45.50	54.00	-8.50	29.73	10.60	38.55	33.38	156	109 Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 140 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11402.44	58.24	74.00	-15.76	42.12	10.69	38.80	33.37	158	227	Peak	HORIZONTAL
2	11402.92	45.91	54.00	-8.09	29.79	10.69	38.80	33.37	158	227	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11399.52	45.92	54.00	-8.08	29.80	10.69	38.80	33.37	160	295	Average	VERTICAL
2	11404.10	58.22	74.00	-15.78	42.10	10.69	38.80	33.37	160	295	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11483.08	57.53	74.00	-16.47	41.31	10.71	38.88	33.37	153	195	Peak	HORIZONTAL
2	11492.44	45.86	54.00	-8.14	29.64	10.71	38.88	33.37	153	195	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11482.37	45.87	54.00	-8.13	29.65	10.71	38.88	33.37	150	62	Average	VERTICAL
2	11494.97	57.95	74.00	-16.05	41.72	10.72	38.88	33.37	150	62	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11570.32	46.38	54.00	-7.62	30.07	10.76	38.94	33.39	140	310	Average	HORIZONTAL
2	11574.20	58.42	74.00	-15.58	42.11	10.76	38.94	33.39	140	310	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11576.06	57.88	74.00	-16.12	41.57	10.76	38.94	33.39	164	233	Peak	VERTICAL
2	11578.65	45.80	54.00	-8.20	29.49	10.76	38.94	33.39	164	233	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11654.84	46.04	54.00	-7.96	29.65	10.81	38.99	33.41	153	166	Average	HORIZONTAL
2	11655.93	57.97	74.00	-16.03	41.58	10.81	38.99	33.41	153	166	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11644.42	45.97	54.00	-8.03	29.60	10.79	38.98	33.40	148	92	Average	VERTICAL
2	11655.38	58.37	74.00	-15.63	41.98	10.81	38.99	33.41	148	92	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15562.05	59.77	74.00	-14.23	42.83	12.58	38.09	33.73	156	311	Peak	HORIZONTAL
2	15570.58	47.43	54.00	-6.57	30.49	12.58	38.09	33.73	156	311	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15557.95	59.62	74.00	-14.38	42.65	12.58	38.12	33.73	160	226	Peak	VERTICAL
2	15560.06	47.27	54.00	-6.73	30.30	12.58	38.12	33.73	160	226	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15684.81	59.44	74.00	-14.56	42.81	12.58	37.90	33.85	168	250	Peak	HORIZONTAL
2	15688.08	47.21	54.00	-6.79	30.58	12.58	37.90	33.85	168	250	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15682.63	59.58	74.00	-14.42	42.95	12.58	37.90	33.85	162	203	Peak	VERTICAL
2	15701.28	47.23	54.00	-6.77	30.67	12.57	37.87	33.88	162	203	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15792.37	46.83	54.00	-7.17	30.48	12.57	37.73	33.95	139	188	Average	HORIZONTAL
2	15818.59	58.97	74.00	-15.03	42.70	12.57	37.68	33.98	139	188	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15790.64	46.93	54.00	-7.07	30.58	12.57	37.73	33.95	149	244	Average	VERTICAL
2	15818.72	58.88	74.00	-15.12	42.61	12.57	37.68	33.98	149	244	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 62 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10607.69	45.01	54.00	-8.99	30.04	10.19	38.40	33.62	155	183	Average	HORIZONTAL
2	10637.63	57.67	74.00	-16.33	42.66	10.21	38.40	33.60	155	183	Peak	HORIZONTAL
3	15943.97	58.66	74.00	-15.34	42.72	12.56	37.48	34.10	152	160	Peak	HORIZONTAL
4	15945.00	46.58	54.00	-7.42	30.64	12.56	37.48	34.10	152	160	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10601.15	57.45	74.00	-16.55	42.48	10.19	38.40	33.62	153	328	Peak	VERTICAL
2	10610.45	45.00	54.00	-9.00	30.03	10.19	38.40	33.62	153	328	Average	VERTICAL
3	15923.59	46.70	54.00	-7.30	30.71	12.56	37.51	34.08	155	217	Average	VERTICAL
4	15928.33	59.25	74.00	-14.75	43.26	12.56	37.51	34.08	155	217	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11026.09	57.21	74.00	-16.79	41.60	10.56	38.43	33.38	149	101	Peak	HORIZONTAL
2	11034.87	45.41	54.00	-8.59	29.79	10.57	38.43	33.38	149	101	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11008.53	45.38	54.00	-8.62	29.79	10.55	38.42	33.38	151	83	Average	VERTICAL
2	11038.27	57.22	74.00	-16.78	41.60	10.57	38.43	33.38	151	83	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 110 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11106.28	45.49	54.00	-8.51	29.79	10.58	38.50	33.38	174	229	Average	HORIZONTAL
2	11113.08	57.69	74.00	-16.31	41.96	10.59	38.52	33.38	174	229	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11087.24	45.41	54.00	-8.59	29.73	10.58	38.48	33.38	158	148	Average	VERTICAL
2	11095.00	57.27	74.00	-16.73	41.57	10.58	38.50	33.38	158	148	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 134 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11339.42	57.64	74.00	-16.36	41.62	10.66	38.73	33.37	164	42	Peak	HORIZONTAL
2	11347.18	45.88	54.00	-8.12	29.83	10.67	38.75	33.37	164	42	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11338.01	57.28	74.00	-16.72	41.26	10.66	38.73	33.37	154	103	Peak	VERTICAL
2	11347.31	45.76	54.00	-8.24	29.71	10.67	38.75	33.37	154	103	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11505.71	57.71	74.00	-16.29	41.46	10.72	38.90	33.37	157	243	Peak	HORIZONTAL
2	11512.76	45.95	54.00	-8.05	29.70	10.72	38.90	33.37	157	243	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11518.78	57.67	74.00	-16.33	41.41	10.73	38.91	33.38	150	290	Peak	VERTICAL
2	11525.26	45.94	54.00	-8.06	29.68	10.73	38.91	33.38	150	290	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11580.64	57.85	74.00	-16.15	41.54	10.76	38.94	33.39	166	71	Peak	HORIZONTAL
2	11602.05	46.03	54.00	-7.97	29.69	10.78	38.96	33.40	166	71	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11577.69	58.09	74.00	-15.91	41.78	10.76	38.94	33.39	152	203	Peak	VERTICAL
2	11603.46	46.02	54.00	-7.98	29.68	10.78	38.96	33.40	152	203	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15615.00	58.96	74.00	-15.04	42.15	12.58	38.01	33.78	189	271	Peak	HORIZONTAL
2	15661.67	47.22	54.00	-6.78	30.52	12.58	37.95	33.83	189	271	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15649.36	58.85	74.00	-15.15	42.12	12.58	37.95	33.80	178	198	Peak	VERTICAL
2	15662.31	47.27	54.00	-6.73	30.57	12.58	37.95	33.83	178	198	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15865.38	46.80	54.00	-7.20	30.64	12.57	37.62	34.03	150	235	Average	HORIZONTAL
2	15871.41	58.22	74.00	-15.78	42.09	12.57	37.59	34.03	150	235	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15874.62	58.46	74.00	-15.54	42.33	12.57	37.59	34.03	155	162	Peak	VERTICAL
2	15890.77	46.77	54.00	-7.23	30.68	12.57	37.57	34.05	155	162	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11048.08	57.99	74.00	-16.01	42.35	10.57	38.45	33.38	148	331	Peak	HORIZONTAL
2	11063.08	45.58	54.00	-8.42	29.91	10.58	38.47	33.38	148	331	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11033.21	45.42	54.00	-8.58	29.81	10.56	38.43	33.38	188	259	Average	VERTICAL
2	11062.69	57.82	74.00	-16.18	42.15	10.58	38.47	33.38	188	259	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 122 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11187.69	57.33	74.00	-16.67	41.51	10.62	38.58	33.38	160	233	Peak	HORIZONTAL
2	11251.28	45.69	54.00	-8.31	29.78	10.64	38.65	33.38	160	233	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11193.85	57.36	74.00	-16.64	41.52	10.62	38.60	33.38	169	109	Peak	VERTICAL
2	11259.49	45.72	54.00	-8.28	29.81	10.64	38.65	33.38	169	109	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11532.05	56.82	74.00	-17.18	40.55	10.73	38.92	33.38	173	244	Peak	HORIZONTAL
2	11533.59	45.80	54.00	-8.20	29.53	10.73	38.92	33.38	173	244	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11532.82	57.80	74.00	-16.20	41.53	10.73	38.92	33.38	148	198	Peak	VERTICAL
2	11533.97	46.02	54.00	-7.98	29.75	10.73	38.92	33.38	148	198	Average	VERTICAL



Straddle Channel

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11440.74	52.63	54.00	-1.37	36.48	10.69	38.83	33.37	149	304	Average	HORIZONTAL
2	11441.67	67.22	74.00	-6.78	51.07	10.69	38.83	33.37	149	304	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11434.78	64.60	74.00	-9.40	48.45	10.69	38.83	33.37	178	202	Peak	VERTICAL
2	11440.48	50.66	54.00	-3.34	34.51	10.69	38.83	33.37	178	202	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11419.87	63.39	74.00	-10.61	47.25	10.69	38.82	33.37	149	302	Peak	HORIZONTAL
2	11430.19	48.05	54.00	-5.95	31.90	10.69	38.83	33.37	149	302	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11412.12	46.90	54.00	-7.10	30.78	10.69	38.80	33.37	165	208	Average	VERTICAL
2	11419.81	63.62	74.00	-10.38	47.48	10.69	38.82	33.37	165	208	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2
Test Date	Jul. 29, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11391.79	46.25	54.00	-7.75	30.15	10.69	38.78	33.37	164	106	Average	HORIZONTAL
2	11396.03	58.24	74.00	-15.76	42.12	10.69	38.80	33.37	164	106	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11350.38	57.90	74.00	-16.10	41.85	10.67	38.75	33.37	142	337	Peak	VERTICAL
2	11415.90	46.10	54.00	-7.90	29.96	10.69	38.82	33.37	142	337	Average	VERTICAL

Note:

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

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

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



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15533.00	59.18	74.00	-14.82	42.16	12.58	38.14	33.70	155	24	Peak	HORIZONTAL
2	15538.96	46.04	54.00	-7.96	29.02	12.58	38.14	33.70	155	24	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15536.08	46.14	54.00	-7.86	29.12	12.58	38.14	33.70	152	81	Average	VERTICAL
2	15545.72	58.65	74.00	-15.35	41.65	12.58	38.12	33.70	152	81	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15602.96	47.25	54.00	-6.75	30.42	12.58	38.03	33.78	151	44	Average	HORIZONTAL
2	15608.04	60.01	74.00	-13.99	43.18	12.58	38.03	33.78	151	44	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15600.24	60.13	74.00	-13.87	43.30	12.58	38.03	33.78	143	231	Peak	VERTICAL
2	15600.72	46.94	54.00	-7.06	30.11	12.58	38.03	33.78	143	231	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15714.84	61.36	74.00	-12.64	44.83	12.57	37.84	33.88	145	290	Peak	HORIZONTAL
2	15716.32	48.65	54.00	-5.35	32.12	12.57	37.84	33.88	145	290	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15724.32	61.27	74.00	-12.73	44.74	12.57	37.84	33.88	153	213	Peak	VERTICAL
2	15725.00	47.91	54.00	-6.09	31.38	12.57	37.84	33.88	153	213	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15779.44	49.63	54.00	-4.37	33.25	12.57	37.76	33.95	147	126	Average	HORIZONTAL
2	15786.64	62.52	74.00	-11.48	46.17	12.57	37.73	33.95	147	126	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15773.20	51.28	54.00	-2.72	34.88	12.57	37.76	33.93	168	213	Average	VERTICAL
2	15776.40	65.18	74.00	-8.82	48.78	12.57	37.76	33.93	168	213	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 60 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10600.12	64.66	74.00	-9.34	49.73	10.16	38.40	33.63	149	49	Peak	HORIZONTAL
2	10600.64	51.39	54.00	-2.61	36.46	10.16	38.40	33.63	149	49	Average	HORIZONTAL
3	15896.84	48.87	54.00	-5.13	32.78	12.57	37.57	34.05	141	288	Average	HORIZONTAL
4	15905.32	61.21	74.00	-12.79	45.19	12.56	37.54	34.08	141	288	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10596.56	48.61	54.00	-5.39	33.68	10.16	38.40	33.63	150	237	Average	VERTICAL
2	10597.44	62.08	74.00	-11.92	47.15	10.16	38.40	33.63	150	237	Peak	VERTICAL
3	15896.12	61.39	74.00	-12.61	45.30	12.57	37.57	34.05	159	52	Peak	VERTICAL
4	15902.20	48.21	54.00	-5.79	32.15	12.57	37.54	34.05	159	52	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 64 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10630.80	41.39	54.00	-12.61	26.38	10.21	38.40	33.60	148	259	Average	HORIZONTAL
2	10642.92	54.41	74.00	-19.59	39.40	10.21	38.40	33.60	148	259	Peak	HORIZONTAL
3	15953.16	46.88	54.00	-7.12	30.96	12.56	37.46	34.10	151	312	Average	HORIZONTAL
4	15959.40	59.83	74.00	-14.17	43.94	12.56	37.46	34.13	151	312	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10638.36	42.55	54.00	-11.45	27.54	10.21	38.40	33.60	163	317	Average	VERTICAL
2	10644.52	54.14	74.00	-19.86	39.13	10.21	38.40	33.60	163	317	Peak	VERTICAL
3	15952.32	60.42	74.00	-13.58	44.50	12.56	37.46	34.10	158	255	Peak	VERTICAL
4	15961.24	46.62	54.00	-7.38	30.73	12.56	37.46	34.13	158	255	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11002.48	56.03	74.00	-17.97	40.46	10.55	38.40	33.38	163	212	Peak	HORIZONTAL
2	11008.68	42.49	54.00	-11.51	26.90	10.55	38.42	33.38	163	212	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10990.96	54.94	74.00	-19.06	39.37	10.55	38.40	33.38	138	153	Peak	VERTICAL
2	11009.60	42.58	54.00	-11.42	26.98	10.56	38.42	33.38	138	153	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 116 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11160.96	46.74	54.00	-7.26	30.95	10.60	38.57	33.38	158	258	Average	HORIZONTAL
2	11169.64	59.89	74.00	-14.11	44.09	10.61	38.57	33.38	158	258	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11160.60	46.11	54.00	-7.89	30.32	10.60	38.57	33.38	174	87	Average	VERTICAL
2	11161.68	58.84	74.00	-15.16	43.05	10.60	38.57	33.38	174	87	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 140 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11400.96	44.17	54.00	-9.83	28.05	10.69	38.80	33.37	149	199	Average	HORIZONTAL
2	11402.52	56.36	74.00	-17.64	40.24	10.69	38.80	33.37	149	199	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11396.80	44.09	54.00	-9.91	27.97	10.69	38.80	33.37	154	242	Average	VERTICAL
2	11407.28	56.36	74.00	-17.64	40.24	10.69	38.80	33.37	154	242	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11488.80	45.54	54.00	-8.46	29.32	10.71	38.88	33.37	151	320	Average	HORIZONTAL
2	11488.80	58.21	74.00	-15.79	41.99	10.71	38.88	33.37	151	320	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11489.00	56.48	74.00	-17.52	40.26	10.71	38.88	33.37	148	265	Peak	VERTICAL
2	11490.20	44.40	54.00	-9.60	28.18	10.71	38.88	33.37	148	265	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2
Test Date	Aug. 11, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11569.80	51.23	54.00	-2.77	34.92	10.76	38.94	33.39	172	48 Average	HORIZONTAL
2	11572.80	63.54	74.00	-10.46	47.23	10.76	38.94	33.39	172	48 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11574.10	60.78	74.00	-13.22	44.47	10.76	38.94	33.39	152	172 Peak	VERTICAL
2	11575.70	48.42	54.00	-5.58	32.11	10.76	38.94	33.39	152	172 Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1 + Chain 2
Test Date	Aug. 11, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11629.10	56.77	74.00	-17.23	40.41	10.79	38.97	33.40	155	163	Peak	HORIZONTAL
2	11642.70	44.34	54.00	-9.66	27.97	10.79	38.98	33.40	155	163	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11648.70	56.83	74.00	-17.17	40.45	10.81	38.98	33.41	142	187	Peak	VERTICAL
2	11650.50	44.71	54.00	-9.29	28.33	10.81	38.98	33.41	142	187	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15573.00	58.60	74.00	-15.40	41.66	12.58	38.09	33.73	157	218	Peak	HORIZONTAL
2	15587.10	46.32	54.00	-7.68	29.43	12.58	38.06	33.75	157	218	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15551.40	58.71	74.00	-15.29	41.74	12.58	38.12	33.73	152	244	Peak	VERTICAL
2	15589.80	46.21	54.00	-7.79	29.32	12.58	38.06	33.75	152	244	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15693.00	59.63	74.00	-14.37	43.00	12.58	37.90	33.85	175	190	Peak	HORIZONTAL
2	15707.70	47.96	54.00	-6.04	31.40	12.57	37.87	33.88	175	190	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15702.00	58.96	74.00	-15.04	42.40	12.57	37.87	33.88	149	128	Peak	VERTICAL
2	15704.50	46.96	54.00	-7.04	30.40	12.57	37.87	33.88	149	128	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15820.20	60.49	74.00	-13.51	44.22	12.57	37.68	33.98	147	314	Peak	HORIZONTAL
2	15827.50	47.80	54.00	-6.20	31.53	12.57	37.68	33.98	147	314	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15818.50	47.74	54.00	-6.26	31.47	12.57	37.68	33.98	151	149	Average	VERTICAL
2	15828.80	60.72	74.00	-13.28	44.47	12.57	37.68	34.00	151	149	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 62 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10607.30	41.97	54.00	-12.03	27.00	10.19	38.40	33.62	150	219	Average	HORIZONTAL
2	10623.00	54.75	74.00	-19.25	39.78	10.19	38.40	33.62	150	219	Peak	HORIZONTAL
3	15905.50	59.65	74.00	-14.35	43.63	12.56	37.54	34.08	152	268	Peak	HORIZONTAL
4	15925.00	47.14	54.00	-6.86	31.15	12.56	37.51	34.08	152	268	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10597.30	41.83	54.00	-12.17	26.90	10.16	38.40	33.63	159	249	Average	VERTICAL
2	10600.40	54.07	74.00	-19.93	39.14	10.16	38.40	33.63	159	249	Peak	VERTICAL
3	15905.50	46.98	54.00	-7.02	30.96	12.56	37.54	34.08	154	217	Average	VERTICAL
4	15927.60	59.86	74.00	-14.14	43.87	12.56	37.51	34.08	154	217	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11037.80	55.12	74.00	-18.88	39.50	10.57	38.43	33.38	159	322	Peak	HORIZONTAL
2	11042.40	42.93	54.00	-11.07	27.29	10.57	38.45	33.38	159	322	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11042.10	55.71	74.00	-18.29	40.07	10.57	38.45	33.38	155	291	Peak	VERTICAL
2	11043.20	42.86	54.00	-11.14	27.22	10.57	38.45	33.38	155	291	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 110 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11099.60	44.90	54.00	-9.10	29.20	10.58	38.50	33.38	166	219	Average	HORIZONTAL
2	11106.20	56.12	74.00	-17.88	40.42	10.58	38.50	33.38	166	219	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11086.00	43.39	54.00	-10.61	27.71	10.58	38.48	33.38	168	239	Average	VERTICAL
2	11119.70	56.02	74.00	-17.98	40.29	10.59	38.52	33.38	168	239	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 134 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11352.70	44.13	54.00	-9.87	28.08	10.67	38.75	33.37	158	259	Average	HORIZONTAL
2	11354.90	55.83	74.00	-18.17	39.78	10.67	38.75	33.37	158	259	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11324.10	55.51	74.00	-18.49	39.50	10.66	38.72	33.37	148	211	Peak	VERTICAL
2	11345.00	43.13	54.00	-10.87	27.08	10.67	38.75	33.37	148	211	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11520.10	56.60	74.00	-17.40	40.34	10.73	38.91	33.38	174	83	Peak	HORIZONTAL
2	11529.10	43.67	54.00	-10.33	27.41	10.73	38.91	33.38	174	83	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11522.60	55.67	74.00	-18.33	39.41	10.73	38.91	33.38	147	137	Peak	VERTICAL
2	11527.30	43.60	54.00	-10.40	27.34	10.73	38.91	33.38	147	137	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11569.40	44.29	54.00	-9.71	27.98	10.75	38.94	33.38	154	239	Average	HORIZONTAL
2	11604.40	57.03	74.00	-16.97	40.69	10.78	38.96	33.40	154	239	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11590.60	44.50	54.00	-9.50	28.18	10.76	38.95	33.39	160	318	Average	VERTICAL
2	11599.10	56.23	74.00	-17.77	39.90	10.78	38.95	33.40	160	318	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15649.70	58.85	74.00	-15.15	42.12	12.58	37.95	33.80	156	213	Peak	HORIZONTAL
2	15653.20	46.33	54.00	-7.67	29.63	12.58	37.95	33.83	156	213	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15620.00	59.35	74.00	-14.65	42.54	12.58	38.01	33.78	148	117	Peak	VERTICAL
2	15651.40	46.30	54.00	-7.70	29.60	12.58	37.95	33.83	148	117	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15867.70	59.78	74.00	-14.22	43.65	12.57	37.59	34.03	151	180	Peak	HORIZONTAL
2	15889.00	47.43	54.00	-6.57	31.34	12.57	37.57	34.05	151	180	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15890.00	47.29	54.00	-6.71	31.20	12.57	37.57	34.05	157	239	Average	VERTICAL
2	15890.50	60.30	74.00	-13.70	44.21	12.57	37.57	34.05	157	239	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11047.50	55.48	74.00	-18.52	39.84	10.57	38.45	33.38	157	171	Peak	HORIZONTAL
2	11079.70	43.06	54.00	-10.94	27.38	10.58	38.48	33.38	157	171	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11051.10	43.23	54.00	-10.77	27.59	10.57	38.45	33.38	147	235	Average	VERTICAL
2	11066.90	55.70	74.00	-18.30	40.03	10.58	38.47	33.38	147	235	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 122 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11214.50	55.04	74.00	-18.96	39.17	10.63	38.62	33.38	140	243	Peak	HORIZONTAL
2	11240.50	43.32	54.00	-10.68	27.43	10.64	38.63	33.38	140	243	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11239.60	43.06	54.00	-10.94	27.17	10.64	38.63	33.38	168	155	Average	VERTICAL
2	11240.10	55.48	74.00	-18.52	39.59	10.64	38.63	33.38	168	155	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11554.10	56.68	74.00	-17.32	40.38	10.75	38.93	33.38	168	185	Peak	HORIZONTAL
2	11566.50	43.82	54.00	-10.18	27.51	10.75	38.94	33.38	168	185	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11549.70	43.78	54.00	-10.22	27.48	10.75	38.93	33.38	153	265	Average	VERTICAL
2	11573.70	57.35	74.00	-16.65	41.04	10.76	38.94	33.39	153	265	Peak	VERTICAL



Straddle Channel

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11438.80	66.05	74.00	-7.95	49.90	10.69	38.83	33.37	188	45	Peak	HORIZONTAL
2	11439.30	51.83	54.00	-2.17	35.68	10.69	38.83	33.37	188	45	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11437.10	52.73	54.00	-1.27	36.58	10.69	38.83	33.37	136	190	Average	VERTICAL
2	11439.00	67.67	74.00	-6.33	51.52	10.69	38.83	33.37	136	190	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11420.00	63.05	74.00	-10.95	46.91	10.69	38.82	33.37	151	30	Peak	HORIZONTAL
2	11423.30	48.71	54.00	-5.29	32.57	10.69	38.82	33.37	151	30	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11423.50	50.43	54.00	-3.57	34.29	10.69	38.82	33.37	157	203	Average	VERTICAL
2	11425.20	65.60	74.00	-8.40	49.46	10.69	38.82	33.37	157	203	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2
Test Date	Aug. 07, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11393.90	45.02	54.00	-8.98	28.92	10.69	38.78	33.37	232	126	Average	HORIZONTAL
2	11394.60	57.64	74.00	-16.36	41.54	10.69	38.78	33.37	232	126	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11396.80	59.78	74.00	-14.22	43.66	10.69	38.80	33.37	212	46	Peak	VERTICAL
2	11397.70	46.40	54.00	-7.60	30.28	10.69	38.80	33.37	212	46	Average	VERTICAL

Note:

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

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

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

<For STBC Mode>

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15539.43	46.20	54.00	-7.80	29.18	12.58	38.14	33.70	152	318	Average	HORIZONTAL
2	15539.62	59.70	74.00	-14.30	42.68	12.58	38.14	33.70	152	318	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15539.37	45.62	54.00	-8.38	28.60	12.58	38.14	33.70	152	339	Average	VERTICAL
2	15540.88	58.23	74.00	-15.77	41.21	12.58	38.14	33.70	152	339	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15599.01	46.08	54.00	-7.92	29.25	12.58	38.03	33.78	153	321	Average	HORIZONTAL
2	15600.31	58.94	74.00	-15.06	42.11	12.58	38.03	33.78	153	321	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15599.95	45.81	54.00	-8.19	28.98	12.58	38.03	33.78	152	335	Average	VERTICAL
2	15600.53	59.10	74.00	-14.90	42.27	12.58	38.03	33.78	152	335	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	15719.23	45.89	54.00	-8.11	29.36	12.57	37.84	33.88	152	310	Average	HORIZONTAL
2	15720.71	59.71	74.00	-14.29	43.18	12.57	37.84	33.88	152	310	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	15719.01	45.92	54.00	-8.08	29.39	12.57	37.84	33.88	153	321	Average	VERTICAL
2	15720.13	59.60	74.00	-14.40	43.07	12.57	37.84	33.88	153	321	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15779.18	59.03	74.00	-14.97	42.65	12.57	37.76	33.95	151	307	Peak	HORIZONTAL
2	15779.83	46.61	54.00	-7.39	30.23	12.57	37.76	33.95	151	307	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15780.17	58.47	74.00	-15.53	42.09	12.57	37.76	33.95	153	323	Peak	VERTICAL
2	15780.68	45.57	54.00	-8.43	29.19	12.57	37.76	33.95	153	323	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 60 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10600.88	43.52	54.00	-10.48	28.55	10.19	38.40	33.62	146	288	Average	HORIZONTAL
2	10600.92	57.39	74.00	-16.61	42.42	10.19	38.40	33.62	146	288	Peak	HORIZONTAL
3	15900.50	58.45	74.00	-15.55	42.36	12.57	37.57	34.05	148	308	Peak	HORIZONTAL
4	15900.91	45.29	54.00	-8.71	29.23	12.57	37.54	34.05	148	308	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10599.13	42.89	54.00	-11.11	27.96	10.16	38.40	33.63	155	335	Average	VERTICAL
2	10600.40	57.33	74.00	-16.67	42.40	10.16	38.40	33.63	155	335	Peak	VERTICAL
3	15899.99	45.34	54.00	-8.66	29.25	12.57	37.57	34.05	104	308	Average	VERTICAL
4	15900.69	58.25	74.00	-15.75	42.19	12.57	37.54	34.05	104	308	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 64 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10639.84	42.94	54.00	-11.06	27.93	10.21	38.40	33.60	152	287	Average	HORIZONTAL
2	10640.04	56.63	74.00	-17.37	41.62	10.21	38.40	33.60	152	287	Peak	HORIZONTAL
3	15959.59	44.78	54.00	-9.22	28.89	12.56	37.46	34.13	151	306	Average	HORIZONTAL
4	15960.23	57.80	74.00	-16.20	41.91	12.56	37.46	34.13	151	306	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10639.77	56.18	74.00	-17.82	41.17	10.21	38.40	33.60	151	317	Peak	VERTICAL
2	10640.99	42.91	54.00	-11.09	27.90	10.21	38.40	33.60	151	317	Average	VERTICAL
3	15959.07	58.03	74.00	-15.97	42.14	12.56	37.46	34.13	153	292	Peak	VERTICAL
4	15960.32	44.84	54.00	-9.16	28.95	12.56	37.46	34.13	153	292	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10999.05	43.36	54.00	-10.64	27.79	10.55	38.40	33.38	148	287	Average	HORIZONTAL
2	11000.85	56.27	74.00	-17.73	40.70	10.55	38.40	33.38	148	287	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11000.27	43.16	54.00	-10.84	27.59	10.55	38.40	33.38	149	307	Average	VERTICAL
2	11000.59	56.39	74.00	-17.61	40.82	10.55	38.40	33.38	149	307	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 116 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11160.27	56.96	74.00	-17.04	41.17	10.60	38.57	33.38	148	291	Peak	HORIZONTAL
2	11160.34	43.46	54.00	-10.54	27.67	10.60	38.57	33.38	148	291	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11159.48	43.64	54.00	-10.36	27.85	10.60	38.57	33.38	149	303	Average	VERTICAL
2	11160.02	57.17	74.00	-16.83	41.38	10.60	38.57	33.38	149	303	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 140 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11399.71	57.16	74.00	-16.84	41.04	10.69	38.80	33.37	151	288	Peak	HORIZONTAL
2	11400.54	43.98	54.00	-10.02	27.86	10.69	38.80	33.37	151	288	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11399.06	57.30	74.00	-16.70	41.18	10.69	38.80	33.37	149	301	Peak	VERTICAL
2	11399.20	44.06	54.00	-9.94	27.94	10.69	38.80	33.37	149	301	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11489.63	43.77	54.00	-10.23	27.55	10.71	38.88	33.37	148	313	Average	HORIZONTAL
2	11489.74	57.09	74.00	-16.91	40.87	10.71	38.88	33.37	148	313	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11489.42	57.56	74.00	-16.44	41.34	10.71	38.88	33.37	148	298	Peak	VERTICAL
2	11490.23	43.79	54.00	-10.21	27.57	10.71	38.88	33.37	148	298	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11569.22	43.70	54.00	-10.30	27.39	10.75	38.94	33.38	149	311	Average	HORIZONTAL
2	11569.55	57.73	74.00	-16.27	41.42	10.75	38.94	33.38	149	311	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11569.29	57.46	74.00	-16.54	41.15	10.75	38.94	33.38	149	299	Peak	VERTICAL
2	11570.77	44.46	54.00	-9.54	28.15	10.76	38.94	33.39	149	299	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11649.03	57.67	74.00	-16.33	41.29	10.81	38.98	33.41	150	320	Peak	HORIZONTAL
2	11650.45	43.52	54.00	-10.48	27.14	10.81	38.98	33.41	150	320	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11650.41	57.23	74.00	-16.77	40.85	10.81	38.98	33.41	149	301	Peak	VERTICAL
2	11650.92	43.63	54.00	-10.37	27.24	10.81	38.99	33.41	149	301	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	15569.97	45.14	54.00	-8.86	28.20	12.58	38.09	33.73	151	278	Average	HORIZONTAL
2	15570.08	59.90	74.00	-14.10	42.96	12.58	38.09	33.73	151	278	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	15569.77	45.25	54.00	-8.75	28.31	12.58	38.09	33.73	149	299	Average	VERTICAL
2	15570.71	58.45	74.00	-15.55	41.51	12.58	38.09	33.73	149	299	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	15702.42	45.82	54.00	-8.18	29.26	12.57	37.87	33.88	126	106	Average	HORIZONTAL
2	15705.79	58.88	74.00	-15.12	42.32	12.57	37.87	33.88	126	106	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	15667.96	59.31	74.00	-14.69	42.64	12.58	37.92	33.83	142	223	Peak	VERTICAL
2	15688.16	46.07	54.00	-7.93	29.44	12.58	37.90	33.85	142	223	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	15785.24	45.66	54.00	-8.34	29.31	12.57	37.73	33.95	131	205	Average	HORIZONTAL
2	15806.96	58.07	74.00	-15.93	41.78	12.57	37.70	33.98	131	205	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	15786.36	45.58	54.00	-8.42	29.23	12.57	37.73	33.95	115	287	Average	VERTICAL
2	15792.37	59.27	74.00	-14.73	42.92	12.57	37.73	33.95	115	287	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 62 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10614.55	43.24	54.00	-10.76	28.27	10.19	38.40	33.62	129	315	Average	HORIZONTAL
2	10637.63	55.90	74.00	-18.10	40.89	10.21	38.40	33.60	129	315	Peak	HORIZONTAL
3	15937.85	57.81	74.00	-16.19	41.87	12.56	37.48	34.10	109	256	Peak	HORIZONTAL
4	15949.79	45.41	54.00	-8.59	29.47	12.56	37.48	34.10	109	256	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10606.94	43.00	54.00	-11.00	28.03	10.19	38.40	33.62	152	246	Average	VERTICAL
2	10613.03	55.77	74.00	-18.23	40.80	10.19	38.40	33.62	152	246	Peak	VERTICAL
3	15928.16	45.42	54.00	-8.58	29.43	12.56	37.51	34.08	120	315	Average	VERTICAL
4	15928.40	58.91	74.00	-15.09	42.92	12.56	37.51	34.08	120	315	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11011.19	56.48	74.00	-17.52	40.88	10.56	38.42	33.38	158	77	Peak	HORIZONTAL
2	11032.58	43.43	54.00	-10.57	27.82	10.56	38.43	33.38	158	77	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11008.78	55.89	74.00	-18.11	40.29	10.56	38.42	33.38	177	168	Peak	VERTICAL
2	11019.92	43.44	54.00	-10.56	27.84	10.56	38.42	33.38	177	168	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 110 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11104.97	43.48	54.00	-10.52	27.78	10.58	38.50	33.38	150	130	Average	HORIZONTAL
2	11123.08	56.08	74.00	-17.92	40.35	10.59	38.52	33.38	150	130	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11085.18	56.07	74.00	-17.93	40.39	10.58	38.48	33.38	127	227	Peak	VERTICAL
2	11104.81	43.29	54.00	-10.71	27.59	10.58	38.50	33.38	127	227	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 134 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11347.93	56.88	74.00	-17.12	40.83	10.67	38.75	33.37	128	127	Peak	HORIZONTAL
2	11358.11	43.81	54.00	-10.19	27.76	10.67	38.75	33.37	128	127	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11327.02	43.85	54.00	-10.15	27.84	10.66	38.72	33.37	140	179	Average	VERTICAL
2	11330.54	56.98	74.00	-17.02	40.96	10.66	38.73	33.37	140	179	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11501.11	57.43	74.00	-16.57	41.18	10.72	38.90	33.37	137	203	Peak	HORIZONTAL
2	11508.24	44.24	54.00	-9.76	27.99	10.72	38.90	33.37	137	203	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11501.03	44.25	54.00	-9.75	28.00	10.72	38.90	33.37	148	101	Average	VERTICAL
2	11505.51	57.02	74.00	-16.98	40.77	10.72	38.90	33.37	148	101	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11565.16	57.24	74.00	-16.76	40.94	10.75	38.93	33.38	147	298	Peak	HORIZONTAL
2	11599.62	44.18	54.00	-9.82	27.84	10.78	38.96	33.40	147	298	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11581.51	57.38	74.00	-16.62	41.07	10.76	38.94	33.39	125	353	Peak	VERTICAL
2	11606.43	44.11	54.00	-9.89	27.77	10.78	38.96	33.40	125	353	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15629.63	45.42	54.00	-8.58	28.66	12.58	37.98	33.80	172	149	Average	HORIZONTAL
2	15630.86	59.04	74.00	-14.96	42.28	12.58	37.98	33.80	172	149	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15633.40	59.02	74.00	-14.98	42.26	12.58	37.98	33.80	113	272	Peak	VERTICAL
2	15636.92	45.69	54.00	-8.31	28.93	12.58	37.98	33.80	113	272	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	15869.95	58.46	74.00	-15.54	42.33	12.57	37.59	34.03	164	244	Peak	HORIZONTAL
2	15870.46	45.33	54.00	-8.67	29.20	12.57	37.59	34.03	164	244	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	15870.07	45.10	54.00	-8.90	28.97	12.57	37.59	34.03	168	179	Average	VERTICAL
2	15870.48	58.03	74.00	-15.97	41.90	12.57	37.59	34.03	168	179	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11060.24	55.77	74.00	-18.23	40.10	10.58	38.47	33.38	175	176	Peak	HORIZONTAL
2	11061.32	43.16	54.00	-10.84	27.49	10.58	38.47	33.38	175	176	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11060.11	43.32	54.00	-10.68	27.65	10.58	38.47	33.38	161	55	Average	VERTICAL
2	11061.24	56.66	74.00	-17.34	40.99	10.58	38.47	33.38	161	55	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 122 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11222.01	43.04	54.00	-10.96	27.17	10.63	38.62	33.38	157	232	Average	HORIZONTAL
2	11222.04	43.16	74.00	-30.84	27.29	10.63	38.62	33.38	157	232	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11220.72	43.13	54.00	-10.87	27.26	10.63	38.62	33.38	169	193	Average	VERTICAL
2	11221.46	57.30	74.00	-16.70	41.43	10.63	38.62	33.38	169	193	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11548.08	43.84	54.00	-10.16	27.55	10.75	38.92	33.38	173	148	Average	HORIZONTAL
2	11550.28	56.45	74.00	-17.55	40.15	10.75	38.93	33.38	173	148	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11550.67	43.68	54.00	-10.32	27.38	10.75	38.93	33.38	152	253	Average	VERTICAL
2	11552.17	57.57	74.00	-16.43	41.27	10.75	38.93	33.38	152	253	Peak	VERTICAL



Straddle Channel

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11439.76	47.61	54.00	-6.39	31.46	10.69	38.83	33.37	147	283	Average	HORIZONTAL
2	11439.79	60.92	74.00	-13.08	44.77	10.69	38.83	33.37	147	283	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11439.80	46.45	54.00	-7.55	30.30	10.69	38.83	33.37	152	298	Average	VERTICAL
2	11440.63	59.56	74.00	-14.44	43.41	10.69	38.83	33.37	152	298	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11433.54	44.82	54.00	-9.18	28.67	10.69	38.83	33.37	146	164	Average	HORIZONTAL
2	11441.07	57.08	74.00	-16.92	40.93	10.69	38.83	33.37	146	164	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11397.24	57.32	74.00	-16.68	41.20	10.69	38.80	33.37	122	50	Peak	VERTICAL
2	11429.70	45.33	54.00	-8.67	29.18	10.69	38.83	33.37	122	50	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2
Test Date	Jul. 17, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11381.45	43.61	54.00	-10.39	27.52	10.68	38.78	33.37	164	86	Average	HORIZONTAL
2	11382.40	57.09	74.00	-16.91	41.00	10.68	38.78	33.37	164	86	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11378.59	43.77	54.00	-10.23	27.68	10.68	38.78	33.37	161	114	Average	VERTICAL
2	11381.75	56.59	74.00	-17.41	40.50	10.68	38.78	33.37	161	114	Peak	VERTICAL

Note:

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

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

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



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15536.51	57.63	74.00	-16.37	40.61	12.58	38.14	33.70	170	151	Peak	HORIZONTAL
2	15540.37	44.53	54.00	-9.47	27.51	12.58	38.14	33.70	170	151	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15538.43	57.93	74.00	-16.07	40.91	12.58	38.14	33.70	162	269	Peak	VERTICAL
2	15541.44	44.51	54.00	-9.49	27.49	12.58	38.14	33.70	162	269	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15603.04	46.12	54.00	-7.88	29.29	12.58	38.03	33.78	171	41	Average	HORIZONTAL
2	15604.09	58.11	74.00	-15.89	41.28	12.58	38.03	33.78	171	41	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15598.64	46.11	54.00	-7.89	29.25	12.58	38.03	33.75	211	167	Average	VERTICAL
2	15612.74	57.77	74.00	-16.23	40.96	12.58	38.01	33.78	211	167	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15708.14	44.64	54.00	-9.36	28.08	12.57	37.87	33.88	152	262	Average	HORIZONTAL
2	15733.86	57.10	74.00	-16.90	40.62	12.57	37.81	33.90	152	262	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15696.92	45.02	54.00	-8.98	28.42	12.58	37.87	33.85	170	214	Average	VERTICAL
2	15725.13	57.53	74.00	-16.47	41.00	12.57	37.84	33.88	170	214	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15775.03	66.07	74.00	-7.93	49.67	12.57	37.76	33.93	171	192	Peak	HORIZONTAL
2	15779.04	52.01	54.00	-1.99	35.63	12.57	37.76	33.95	171	192	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15779.84	49.48	54.00	-4.52	33.10	12.57	37.76	33.95	146	195	Average	VERTICAL
2	15779.92	61.33	74.00	-12.67	44.95	12.57	37.76	33.95	146	195	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 60 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15897.08	44.08	54.00	-9.92	27.99	12.57	37.57	34.05	171	191	Average	HORIZONTAL
2	15901.91	56.87	74.00	-17.13	40.81	12.57	37.54	34.05	171	191	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15895.74	44.18	54.00	-9.82	28.09	12.57	37.57	34.05	176	231	Average	VERTICAL
2	15902.15	57.36	74.00	-16.64	41.30	12.57	37.54	34.05	176	231	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 64 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15957.34	43.71	54.00	-10.29	27.82	12.56	37.46	34.13	175	131	Average	HORIZONTAL
2	15962.58	57.05	74.00	-16.95	41.16	12.56	37.46	34.13	175	131	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15958.54	43.91	54.00	-10.09	28.02	12.56	37.46	34.13	177	167	Average	VERTICAL
2	15962.74	56.87	74.00	-17.13	40.98	12.56	37.46	34.13	177	167	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10995.53	42.45	54.00	-11.55	26.88	10.55	38.40	33.38	195	264	Average	HORIZONTAL
2	11000.11	55.73	74.00	-18.27	40.16	10.55	38.40	33.38	195	264	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10995.34	42.36	54.00	-11.64	26.79	10.55	38.40	33.38	191	224	Average	VERTICAL
2	11001.94	55.88	74.00	-18.12	40.31	10.55	38.40	33.38	191	224	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 116 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11159.44	45.60	54.00	-8.40	29.81	10.60	38.57	33.38	199	188	Average	HORIZONTAL
2	11161.76	57.16	74.00	-16.84	41.36	10.61	38.57	33.38	199	188	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11153.11	55.48	74.00	-18.52	39.71	10.60	38.55	33.38	203	98	Peak	VERTICAL
2	11160.48	43.27	54.00	-10.73	27.48	10.60	38.57	33.38	203	98	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 140 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11397.48	43.05	54.00	-10.95	26.93	10.69	38.80	33.37	168	220	Average	HORIZONTAL
2	11402.04	57.33	74.00	-16.67	41.21	10.69	38.80	33.37	168	220	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11398.70	43.02	54.00	-10.98	26.90	10.69	38.80	33.37	172	160	Average	VERTICAL
2	11403.62	56.26	74.00	-17.74	40.14	10.69	38.80	33.37	172	160	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11487.16	56.30	74.00	-17.70	40.08	10.71	38.88	33.37	162	130	Peak	HORIZONTAL
2	11493.72	42.63	54.00	-11.37	26.40	10.72	38.88	33.37	162	130	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11485.14	42.92	54.00	-11.08	26.70	10.71	38.88	33.37	172	104	Average	VERTICAL
2	11490.61	55.73	74.00	-18.27	39.51	10.71	38.88	33.37	172	104	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11570.64	47.93	54.00	-6.07	31.62	10.76	38.94	33.39	209	189 Average	HORIZONTAL
2	11571.52	60.74	74.00	-13.26	44.43	10.76	38.94	33.39	209	189 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11570.72	46.39	54.00	-7.61	30.08	10.76	38.94	33.39	213	176 Average	VERTICAL
2	11572.24	57.72	74.00	-16.28	41.41	10.76	38.94	33.39	213	176 Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11648.29	57.36	74.00	-16.64	40.98	10.81	38.98	33.41	185	173	Peak	HORIZONTAL
2	11650.14	42.97	54.00	-11.03	26.59	10.81	38.98	33.41	185	173	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11648.03	43.04	54.00	-10.96	26.66	10.81	38.98	33.41	178	218	Average	VERTICAL
2	11649.34	55.99	74.00	-18.01	39.61	10.81	38.98	33.41	178	218	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15569.51	57.87	74.00	-16.13	40.93	12.58	38.09	33.73	133	295	Peak	HORIZONTAL
2	15572.35	44.36	54.00	-9.64	27.42	12.58	38.09	33.73	133	295	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15569.19	44.31	54.00	-9.69	27.37	12.58	38.09	33.73	192	148	Average	VERTICAL
2	15570.38	57.43	74.00	-16.57	40.49	12.58	38.09	33.73	192	148	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15689.10	57.76	74.00	-16.24	41.13	12.58	37.90	33.85	157	225	Peak	HORIZONTAL
2	15691.19	44.50	54.00	-9.50	27.87	12.58	37.90	33.85	157	225	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15687.92	44.38	54.00	-9.62	27.75	12.58	37.90	33.85	134	195	Average	VERTICAL
2	15691.42	58.03	74.00	-15.97	41.40	12.58	37.90	33.85	134	195	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15811.21	56.67	74.00	-17.33	40.38	12.57	37.70	33.98	150	94	Peak	HORIZONTAL
2	15811.58	43.95	54.00	-10.05	27.66	12.57	37.70	33.98	150	94	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15810.90	57.24	74.00	-16.76	40.95	12.57	37.70	33.98	137	156	Peak	VERTICAL
2	15811.42	43.68	54.00	-10.32	27.39	12.57	37.70	33.98	137	156	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 62 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15928.29	56.68	74.00	-17.32	40.69	12.56	37.51	34.08	167	77	Peak	HORIZONTAL
2	15928.73	43.48	54.00	-10.52	27.49	12.56	37.51	34.08	167	77	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15929.17	43.68	54.00	-10.32	27.69	12.56	37.51	34.08	170	227	Average	VERTICAL
2	15931.86	57.23	74.00	-16.77	41.26	12.56	37.51	34.10	170	227	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11016.12	54.93	74.00	-19.07	39.33	10.56	38.42	33.38	140	180	Peak	HORIZONTAL
2	11017.98	42.41	54.00	-11.59	26.81	10.56	38.42	33.38	140	180	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11023.65	55.38	74.00	-18.62	39.77	10.56	38.43	33.38	154	203	Peak	VERTICAL
2	11024.18	42.46	54.00	-11.54	26.85	10.56	38.43	33.38	154	203	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 110 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11098.72	55.68	74.00	-18.32	39.98	10.58	38.50	33.38	172	200	Peak	HORIZONTAL
2	11102.32	42.74	54.00	-11.26	27.04	10.58	38.50	33.38	172	200	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11096.47	56.33	74.00	-17.67	40.63	10.58	38.50	33.38	195	240	Peak	VERTICAL
2	11104.28	42.55	54.00	-11.45	26.85	10.58	38.50	33.38	195	240	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 134 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11328.62	55.54	74.00	-18.46	39.52	10.66	38.73	33.37	176	189	Peak	HORIZONTAL
2	11344.25	43.44	54.00	-10.56	27.41	10.67	38.73	33.37	176	189	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11337.68	42.96	54.00	-11.04	26.94	10.66	38.73	33.37	240	304	Average	VERTICAL
2	11343.96	56.32	74.00	-17.68	40.29	10.67	38.73	33.37	240	304	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11505.91	42.96	54.00	-11.04	26.71	10.72	38.90	33.37	158	219	Average	HORIZONTAL
2	11511.68	56.34	74.00	-17.66	40.09	10.72	38.90	33.37	158	219	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11509.73	42.84	54.00	-11.16	26.59	10.72	38.90	33.37	162	127	Average	VERTICAL
2	11514.04	56.20	74.00	-17.80	39.95	10.72	38.90	33.37	162	127	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11590.67	43.18	54.00	-10.82	26.86	10.76	38.95	33.39	150	195	Average	HORIZONTAL
2	11592.87	55.99	74.00	-18.01	39.67	10.76	38.95	33.39	150	195	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11591.14	43.09	54.00	-10.91	26.77	10.76	38.95	33.39	170	154	Average	VERTICAL
2	11593.70	57.32	74.00	-16.68	41.00	10.76	38.95	33.39	170	154	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15629.18	58.21	74.00	-15.79	41.45	12.58	37.98	33.80	148	254	Peak	HORIZONTAL
2	15631.71	45.26	54.00	-8.74	28.50	12.58	37.98	33.80	148	254	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15630.96	56.99	74.00	-17.01	40.23	12.58	37.98	33.80	175	220	Peak	VERTICAL
2	15632.82	44.66	54.00	-9.34	27.90	12.58	37.98	33.80	175	220	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15867.53	56.83	74.00	-17.17	40.70	12.57	37.59	34.03	164	70	Peak	HORIZONTAL
2	15874.29	44.68	54.00	-9.32	28.55	12.57	37.59	34.03	164	70	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15867.71	51.76	74.00	-22.24	35.63	12.57	37.59	34.03	158	152	Peak	VERTICAL
2	15873.09	44.44	54.00	-9.56	28.31	12.57	37.59	34.03	158	152	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11058.96	42.49	54.00	-11.51	26.83	10.57	38.47	33.38	165	199	Average	HORIZONTAL
2	11064.09	55.63	74.00	-18.37	39.96	10.58	38.47	33.38	165	199	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11057.80	42.53	54.00	-11.47	26.87	10.57	38.47	33.38	152	225	Average	VERTICAL
2	11058.24	55.58	74.00	-18.42	39.92	10.57	38.47	33.38	152	225	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 122 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11223.86	56.95	74.00	-17.05	41.08	10.63	38.62	33.38	147	149	Peak	HORIZONTAL
2	11224.68	42.68	54.00	-11.32	26.81	10.63	38.62	33.38	147	149	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11219.12	56.21	74.00	-17.79	40.34	10.63	38.62	33.38	149	173	Peak	VERTICAL
2	11224.70	42.60	54.00	-11.40	26.73	10.63	38.62	33.38	149	173	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11547.50	43.15	54.00	-10.85	26.86	10.75	38.92	33.38	144	298	Average	HORIZONTAL
2	11553.60	54.25	74.00	-19.75	37.95	10.75	38.93	33.38	144	298	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11549.31	42.95	54.00	-11.05	26.65	10.75	38.93	33.38	100	247	Average	VERTICAL
2	11552.50	53.58	74.00	-20.42	37.28	10.75	38.93	33.38	100	247	Peak	VERTICAL



Straddle Channel

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11437.20	61.69	74.00	-12.31	45.54	10.69	38.83	33.37	185	180	Peak	HORIZONTAL
2	11440.40	49.74	54.00	-4.26	33.59	10.69	38.83	33.37	185	180	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11438.96	62.54	74.00	-11.46	46.39	10.69	38.83	33.37	196	149	Peak	VERTICAL
2	11441.04	49.34	54.00	-4.66	33.19	10.69	38.83	33.37	196	149	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11418.88	60.83	74.00	-13.17	44.69	10.69	38.82	33.37	154	201	Peak	HORIZONTAL
2	11420.40	47.34	54.00	-6.66	31.20	10.69	38.82	33.37	154	201	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11414.39	61.09	74.00	-12.91	44.95	10.69	38.82	33.37	131	191	Peak	VERTICAL
2	11425.53	48.11	54.00	-5.89	31.97	10.69	38.82	33.37	131	191	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2
Test Date	Jul. 25, 2015		
Test Mode	Mode 2 (Ant. 7 Polarized Panel / 10.7dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11383.93	55.46	74.00	-18.54	39.37	10.68	38.78	33.37	120	318	Peak	HORIZONTAL
2	11388.65	43.38	54.00	-10.62	27.29	10.68	38.78	33.37	120	318	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11376.96	43.50	54.00	-10.50	27.42	10.68	38.77	33.37	145	203	Average	VERTICAL
2	11377.20	56.66	74.00	-17.34	40.58	10.68	38.77	33.37	145	203	Peak	VERTICAL

Note:

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

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

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

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15539.12	58.64	74.00	-15.36	41.62	12.58	38.14	33.70	150	227	Peak	HORIZONTAL
2	15541.34	45.44	54.00	-8.56	28.42	12.58	38.14	33.70	150	227	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15541.34	59.14	74.00	-14.86	42.12	12.58	38.14	33.70	150	237	Peak	VERTICAL
2	15541.54	45.73	54.00	-8.27	28.71	12.58	38.14	33.70	150	237	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15600.96	62.61	74.00	-11.39	45.78	12.58	38.03	33.78	150	41	Peak	HORIZONTAL
2	15601.65	46.32	54.00	-7.68	29.49	12.58	38.03	33.78	150	41	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15601.20	48.35	54.00	-5.65	31.52	12.58	38.03	33.78	182	183	Average	VERTICAL
2	15605.40	61.06	74.00	-12.94	44.23	12.58	38.03	33.78	182	183	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15718.42	46.80	54.00	-7.20	30.27	12.57	37.84	33.88	157	238	Average	HORIZONTAL
2	15722.46	60.47	74.00	-13.53	43.94	12.57	37.84	33.88	157	238	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15717.90	47.57	54.00	-6.43	31.04	12.57	37.84	33.88	162	156	Average	VERTICAL
2	15718.45	60.60	74.00	-13.40	44.07	12.57	37.84	33.88	162	156	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15778.19	63.61	74.00	-10.39	47.23	12.57	37.76	33.95	172	0	Peak	HORIZONTAL
2	15779.37	50.02	54.00	-3.98	33.64	12.57	37.76	33.95	172	0	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15778.51	50.87	54.00	-3.13	34.49	12.57	37.76	33.95	162	195	Average	VERTICAL
2	15779.73	64.57	74.00	-9.43	48.19	12.57	37.76	33.95	162	195	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 60 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15900.17	49.15	54.00	-4.85	33.06	12.57	37.57	34.05	141	293	Average	HORIZONTAL
2	15900.18	62.32	74.00	-11.68	46.23	12.57	37.57	34.05	141	293	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15899.53	49.07	54.00	-4.93	32.98	12.57	37.57	34.05	160	113	Average	VERTICAL
2	15899.75	62.35	74.00	-11.65	46.26	12.57	37.57	34.05	160	113	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 64 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15957.60	59.55	74.00	-14.45	43.66	12.56	37.46	34.13	152	332	Peak	HORIZONTAL
2	15961.47	46.77	54.00	-7.23	30.88	12.56	37.46	34.13	152	332	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15958.85	59.26	74.00	-14.74	43.37	12.56	37.46	34.13	152	299	Peak	VERTICAL
2	15959.99	46.41	54.00	-7.59	30.52	12.56	37.46	34.13	152	299	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10998.48	55.00	74.00	-19.00	39.43	10.55	38.40	33.38	138	33	Peak	HORIZONTAL
2	11000.03	42.07	54.00	-11.93	26.50	10.55	38.40	33.38	138	33	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10998.71	55.36	74.00	-18.64	39.79	10.55	38.40	33.38	138	43	Peak	VERTICAL
2	10999.73	42.32	54.00	-11.68	26.75	10.55	38.40	33.38	138	43	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 116 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	cm	deg		
1	11157.90	44.90	54.00	-9.10	29.11	10.60	38.57	138	177	Average	HORIZONTAL
2	11159.91	59.23	74.00	-14.77	43.44	10.60	38.57	138	177	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	cm	deg		
1	11159.16	44.22	54.00	-9.78	28.43	10.60	38.57	155	167	Average	VERTICAL
2	11159.92	57.44	74.00	-16.56	41.65	10.60	38.57	155	167	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 140 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11398.05	43.68	54.00	-10.32	27.56	10.69	38.80	33.37	155	234	Average	HORIZONTAL
2	11401.51	57.32	74.00	-16.68	41.20	10.69	38.80	33.37	155	234	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11398.33	44.67	54.00	-9.33	28.55	10.69	38.80	33.37	155	210	Average	VERTICAL
2	11400.52	57.36	74.00	-16.64	41.24	10.69	38.80	33.37	155	210	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11490.00	45.61	54.00	-8.39	29.39	10.71	38.88	33.37	140	302	Average	HORIZONTAL
2	11490.00	57.30	74.00	-16.70	41.08	10.71	38.88	33.37	140	302	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11490.42	45.00	54.00	-9.00	28.78	10.71	38.88	33.37	150	195	Average	VERTICAL
2	11492.49	58.10	74.00	-15.90	41.88	10.71	38.88	33.37	150	195	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11570.29	64.30	74.00	-9.70	47.99	10.76	38.94	33.39	146	300	Peak	HORIZONTAL
2	11570.34	50.88	54.00	-3.12	34.57	10.76	38.94	33.39	146	300	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11570.48	47.54	54.00	-6.46	31.23	10.76	38.94	33.39	144	193	Average	VERTICAL
2	11572.26	60.66	74.00	-13.34	44.35	10.76	38.94	33.39	144	193	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11647.55	56.58	74.00	-17.42	40.20	10.81	38.98	33.41	153	279	Peak	HORIZONTAL
2	11647.57	43.84	54.00	-10.16	27.46	10.81	38.98	33.41	153	279	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11648.47	56.82	74.00	-17.18	40.44	10.81	38.98	33.41	153	293	Peak	VERTICAL
2	11648.98	44.09	54.00	-9.91	27.71	10.81	38.98	33.41	153	293	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15570.11	58.33	74.00	-15.67	41.39	12.58	38.09	33.73	153	244	Peak	HORIZONTAL
2	15572.40	45.75	54.00	-8.25	28.81	12.58	38.09	33.73	153	244	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15567.80	59.61	74.00	-14.39	42.67	12.58	38.09	33.73	153	219	Peak	VERTICAL
2	15571.04	45.42	54.00	-8.58	28.48	12.58	38.09	33.73	153	219	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15687.50	46.58	54.00	-7.42	29.95	12.58	37.90	33.85	153	39 Average	HORIZONTAL
2	15690.35	59.90	74.00	-14.10	43.27	12.58	37.90	33.85	153	39 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15688.46	59.99	74.00	-14.01	43.36	12.58	37.90	33.85	153	22 Peak	VERTICAL
2	15689.82	46.70	54.00	-7.30	30.07	12.58	37.90	33.85	153	22 Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15810.13	60.59	74.00	-13.41	44.30	12.57	37.70	33.98	153	323	Peak	HORIZONTAL
2	15811.75	47.84	54.00	-6.16	31.55	12.57	37.70	33.98	153	323	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15808.23	47.65	54.00	-6.35	31.36	12.57	37.70	33.98	153	35	Average	VERTICAL
2	15811.76	60.38	74.00	-13.62	44.09	12.57	37.70	33.98	153	35	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 62 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15931.40	46.75	54.00	-7.25	30.78	12.56	37.51	34.10	153	327	Average	HORIZONTAL
2	15931.71	60.03	74.00	-13.97	44.06	12.56	37.51	34.10	153	327	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15928.59	46.78	54.00	-7.22	30.79	12.56	37.51	34.08	153	81	Average	VERTICAL
2	15929.85	60.13	74.00	-13.87	44.14	12.56	37.51	34.08	153	81	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11019.21	42.44	54.00	-11.56	26.84	10.56	38.42	33.38	153	338	Average	HORIZONTAL
2	11022.33	54.58	74.00	-19.42	38.97	10.56	38.43	33.38	153	338	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11018.78	55.52	74.00	-18.48	39.92	10.56	38.42	33.38	153	322	Peak	VERTICAL
2	11019.44	42.41	54.00	-11.59	26.81	10.56	38.42	33.38	153	322	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 110 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11099.78	42.75	54.00	-11.25	27.05	10.58	38.50	33.38	153	124	Average	HORIZONTAL
2	11102.48	55.66	74.00	-18.34	39.96	10.58	38.50	33.38	153	124	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11099.40	55.82	74.00	-18.18	40.12	10.58	38.50	33.38	153	132	Peak	VERTICAL
2	11100.91	42.86	54.00	-11.14	27.16	10.58	38.50	33.38	153	132	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 134 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11340.69	56.41	74.00	-17.59	40.38	10.67	38.73	33.37	153	82	Peak	HORIZONTAL
2	11340.72	42.73	54.00	-11.27	26.70	10.67	38.73	33.37	153	82	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11340.68	43.02	54.00	-10.98	26.99	10.67	38.73	33.37	150	125	Average	VERTICAL
2	11340.71	56.09	74.00	-17.91	40.06	10.67	38.73	33.37	150	125	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11509.59	42.58	54.00	-11.42	26.33	10.72	38.90	33.37	155	151	Average	HORIZONTAL
2	11511.24	55.89	74.00	-18.11	39.64	10.72	38.90	33.37	155	151	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11509.87	42.61	54.00	-11.39	26.36	10.72	38.90	33.37	136	244	Average	VERTICAL
2	11512.27	55.85	74.00	-18.15	39.60	10.72	38.90	33.37	136	244	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11588.99	56.47	74.00	-17.53	40.15	10.76	38.95	33.39	148	119	Peak	HORIZONTAL
2	11591.60	43.30	54.00	-10.70	26.98	10.76	38.95	33.39	148	119	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11591.33	56.95	74.00	-17.05	40.63	10.76	38.95	33.39	151	52	Peak	VERTICAL
2	11592.12	43.63	54.00	-10.37	27.31	10.76	38.95	33.39	151	52	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15628.19	60.26	74.00	-13.74	43.47	12.58	38.01	33.80	148	230	Peak	HORIZONTAL
2	15632.32	47.11	54.00	-6.89	30.35	12.58	37.98	33.80	148	230	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15630.95	46.96	54.00	-7.04	30.20	12.58	37.98	33.80	185	135	Average	VERTICAL
2	15632.23	60.34	74.00	-13.66	43.58	12.58	37.98	33.80	185	135	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15867.96	58.91	74.00	-15.09	42.78	12.57	37.59	34.03	185	207	Peak	HORIZONTAL
2	15868.44	46.24	54.00	-7.76	30.11	12.57	37.59	34.03	185	207	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15872.10	46.26	54.00	-7.74	30.13	12.57	37.59	34.03	185	159	Average	VERTICAL
2	15872.30	59.21	74.00	-14.79	43.08	12.57	37.59	34.03	185	159	Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11058.90	42.50	54.00	-11.50	26.84	10.57	38.47	33.38	175	207	Average	HORIZONTAL
2	11059.34	54.83	74.00	-19.17	39.17	10.57	38.47	33.38	175	207	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11059.37	42.35	54.00	-11.65	26.69	10.57	38.47	33.38	175	192	Average	VERTICAL
2	11060.62	55.83	74.00	-18.17	40.16	10.58	38.47	33.38	175	192	Peak	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 122 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11218.86	42.43	54.00	-11.57	26.56	10.63	38.62	33.38	175	77 Average	HORIZONTAL
2	11221.17	55.13	74.00	-18.87	39.26	10.63	38.62	33.38	175	77 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11218.07	42.38	54.00	-11.62	26.51	10.63	38.62	33.38	175	57 Average	VERTICAL
2	11221.63	55.58	74.00	-18.42	39.71	10.63	38.62	33.38	175	57 Peak	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11550.51	42.82	54.00	-11.18	26.52	10.75	38.93	33.38	171	166	Average	HORIZONTAL
2	11551.94	56.01	74.00	-17.99	39.71	10.75	38.93	33.38	171	166	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11548.11	55.47	74.00	-18.53	39.18	10.75	38.92	33.38	171	284	Peak	VERTICAL
2	11550.62	42.84	54.00	-11.16	26.54	10.75	38.93	33.38	171	284	Average	VERTICAL

Straddle Channel

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11437.59	65.79	74.00	-8.21	49.64	10.69	38.83	33.37	150	293	Peak	HORIZONTAL
2	11439.08	52.22	54.00	-1.78	36.07	10.69	38.83	33.37	150	293	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11438.38	65.44	74.00	-8.56	49.29	10.69	38.83	33.37	150	195	Peak	VERTICAL
2	11439.68	51.86	54.00	-2.14	35.71	10.69	38.83	33.37	150	195	Average	VERTICAL



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11420.57	63.05	74.00	-10.95	46.91	10.69	38.82	33.37	212	300	Peak	HORIZONTAL
2	11422.36	49.13	54.00	-4.87	32.99	10.69	38.82	33.37	212	300	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11420.04	63.66	74.00	-10.34	47.52	10.69	38.82	33.37	148	208	Peak	VERTICAL
2	11422.19	48.94	54.00	-5.06	32.80	10.69	38.82	33.37	148	208	Average	VERTICAL

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2
Test Date	Aug. 05, 2015		
Test Mode	Mode 3 (Ant. 9 Patch antenna / 5.4dBi / 2TX)		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11380.45	44.91	54.00	-9.09	28.82	10.68	38.78	33.37	143	298	Average	HORIZONTAL
2	11380.53	58.14	74.00	-15.86	42.05	10.68	38.78	33.37	143	298	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	11379.63	44.75	54.00	-9.25	28.66	10.68	38.78	33.37	171	100	Average	VERTICAL
2	11381.35	56.66	74.00	-17.34	40.57	10.68	38.78	33.37	171	100	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 (micровolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.7.2. Measuring Instruments and Setting

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

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

4.7.3. Test Procedures

10. 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.

For STBC mode:

The EUT was programmed to be in continuously transmitting mode.

4.7.7. Test Result of Band Edge and Fundamental Emissions

<For Non-Beamforming Mode>

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 2
Test Date	Jul. 15, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 1TX)		

Channel 36

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1	5149.87	69.75	74.00	-4.25	66.69	4.26	33.27	34.47	344	152 Peak	VERTICAL
2	5150.00	52.88	54.00	-1.12	49.82	4.26	33.27	34.47	344	152 Average	VERTICAL
3	5182.56	112.04			108.91	4.27	33.33	34.47	344	152 Peak	VERTICAL
4	5187.37	101.68			98.55	4.27	33.33	34.47	344	152 Average	VERTICAL

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

Channel 40

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1	5148.72	68.33	74.00	-5.67	65.27	4.26	33.27	34.47	45	165 Peak	VERTICAL
2	5149.68	52.89	54.00	-1.11	49.83	4.26	33.27	34.47	45	165 Average	VERTICAL
3	5201.28	107.39			104.22	4.28	33.36	34.47	45	165 Average	VERTICAL
4	5202.24	116.87			113.70	4.28	33.36	34.47	45	165 Peak	VERTICAL

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

Channel 48

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1	5118.85	59.80	74.00	-14.20	56.82	4.24	33.21	34.47	44	161 Peak	VERTICAL
2	5121.73	47.99	54.00	-6.01	45.01	4.24	33.21	34.47	44	161 Average	VERTICAL
3	5238.08	106.79			103.54	4.30	33.42	34.47	44	161 Average	VERTICAL
4	5241.92	116.46			113.18	4.30	33.45	34.47	44	161 Peak	VERTICAL
5	5361.64	61.95	74.00	-12.05	58.40	4.36	33.66	34.47	44	161 Peak	VERTICAL
6	5361.64	50.12	54.00	-3.88	46.57	4.36	33.66	34.47	44	161 Average	VERTICAL

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



Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52, 60, 64 / Chain 2
Test Date	Jul. 15, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 1TX)		

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	5258.08	119.02			115.74	4.30	33.45	34.47	46	168	Peak	VERTICAL
2	5259.04	107.96			104.64	4.31	33.48	34.47	46	168	Average	VERTICAL
3	5377.79	65.99	74.00	-8.01	62.40	4.37	33.69	34.47	46	168	Peak	VERTICAL
4	5378.75	52.51	54.00	-1.49	48.92	4.37	33.69	34.47	46	168	Average	VERTICAL

Item 1, 2 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	5301.28	106.44			103.04	4.33	33.54	34.47	43	164	Average	VERTICAL
2	5302.89	117.80			114.40	4.33	33.54	34.47	43	164	Peak	VERTICAL
3	5350.00	52.99	54.00	-1.01	49.48	4.35	33.63	34.47	43	164	Average	VERTICAL
4	5357.37	68.45	74.00	-5.55	64.94	4.35	33.63	34.47	43	164	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	5321.28	113.45			110.02	4.33	33.57	34.47	47	162	Peak	VERTICAL
2	5321.28	102.94			99.51	4.33	33.57	34.47	47	162	Average	VERTICAL
3	5350.00	52.92	54.00	-1.08	49.41	4.35	33.63	34.47	47	162	Average	VERTICAL
4	5352.37	68.29	74.00	-5.71	64.78	4.35	33.63	34.47	47	162	Peak	VERTICAL

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

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100, 116, 140 / Chain 2
Test Date	Jul. 15, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 1TX)		

Channel 100

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1	5455.93	67.21	74.00	-6.79	63.47	4.40	33.81	34.47	46	147 Peak	VERTICAL
2	5460.00	48.17	54.00	-5.83	44.43	4.40	33.81	34.47	46	147 Average	VERTICAL
3	5469.87	72.01	74.00	-1.99	68.23	4.41	33.84	34.47	46	147 Peak	VERTICAL
4	5469.87	52.72	54.00	-1.28	48.94	4.41	33.84	34.47	46	147 Average	VERTICAL
5	5498.56	103.79			99.94	4.42	33.90	34.47	46	147 Average	VERTICAL
6	5501.60	115.04			111.20	4.42	33.90	34.48	46	147 Peak	VERTICAL

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

Channel 116

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1	5458.21	52.74	54.00	-1.26	49.00	4.40	33.81	34.47	43	169 Average	VERTICAL
2	5458.85	63.74	74.00	-10.26	60.00	4.40	33.81	34.47	43	169 Peak	VERTICAL
3	5468.08	62.12	74.00	-11.88	58.34	4.41	33.84	34.47	43	169 Peak	VERTICAL
4	5468.08	51.68	54.00	-2.32	47.90	4.41	33.84	34.47	43	169 Average	VERTICAL
5	5579.36	118.00			113.94	4.44	34.11	34.49	43	169 Peak	VERTICAL
6	5581.28	107.02			102.96	4.44	34.11	34.49	43	169 Average	VERTICAL
7	5733.85	47.81	54.00	-6.19	43.26	4.50	34.57	34.52	43	169 Average	VERTICAL
8	5742.18	60.47	74.00	-13.53	55.87	4.50	34.62	34.52	43	169 Peak	VERTICAL

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

Channel 140

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1	5694.07	112.18			107.73	4.49	34.47	34.51	44	154 Peak	VERTICAL
2	5698.72	100.34			95.89	4.49	34.47	34.51	44	154 Average	VERTICAL
3	5725.00	49.76	54.00	-4.24	45.20	4.50	34.57	34.51	44	154 Average	VERTICAL
4	5725.16	72.95	74.00	-1.05	68.39	4.50	34.57	34.51	44	154 Peak	VERTICAL

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

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 2
Test Date	Jul. 15, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 1TX)		

Channel 149

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5711.19	67.02	68.20	-1.18	62.52	4.49	34.52	34.51	308	147	Peak	VERTICAL
2	5724.49	74.68	78.20	-3.52	70.12	4.50	34.57	34.51	308	147	Peak	VERTICAL
3	5743.88	102.01			97.41	4.50	34.62	34.52	308	147	Average	VERTICAL
4	5746.60	112.41			107.81	4.50	34.62	34.52	308	147	Peak	VERTICAL

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

Channel 157

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5705.51	67.19	68.20	-1.01	62.69	4.49	34.52	34.51	307	180	Peak	VERTICAL
2	5722.50	72.20	78.20	-6.00	67.64	4.50	34.57	34.51	307	180	Peak	VERTICAL
3	5785.96	118.16			113.39	4.52	34.78	34.53	307	180	Peak	VERTICAL
4	5786.60	108.20			103.43	4.52	34.78	34.53	307	180	Average	VERTICAL
5	5852.31	71.99	78.20	-6.21	67.06	4.54	34.93	34.54	307	180	Peak	VERTICAL
6	5867.69	66.93	68.20	-1.27	61.93	4.55	34.99	34.54	307	180	Peak	VERTICAL

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

Channel 165

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5822.92	113.15			108.27	4.53	34.88	34.53	307	171	Peak	VERTICAL
2	5823.40	103.15			98.27	4.53	34.88	34.53	307	171	Average	VERTICAL
3	5851.28	76.97	78.20	-1.23	72.04	4.54	34.93	34.54	307	171	Peak	VERTICAL
4	5863.78	67.18	68.20	-1.02	62.18	4.55	34.99	34.54	307	171	Peak	VERTICAL

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

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 2
Test Date	Jul. 15, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 1TX)		

Channel 38

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5148.97	72.07	74.00	-1.93	69.01	4.26	33.27	34.47	346	145 Peak	VERTICAL
2	5149.30	52.58	54.00	-1.42	49.52	4.26	33.27	34.47	346	145 Average	VERTICAL
3	5194.81	98.26			95.09	4.28	33.36	34.47	346	145 Average	VERTICAL
4	5195.13	108.74			105.57	4.28	33.36	34.47	346	145 Peak	VERTICAL

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

Channel 46

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5146.35	62.79	74.00	-11.21	59.73	4.26	33.27	34.47	45	163 Peak	VERTICAL
2	5148.75	50.31	54.00	-3.69	47.25	4.26	33.27	34.47	45	163 Average	VERTICAL
3	5235.29	103.39			100.14	4.30	33.42	34.47	45	163 Average	VERTICAL
4	5237.69	113.25			110.00	4.30	33.42	34.47	45	163 Peak	VERTICAL

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

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62 / Chain 2
Test Date	Jul. 15, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 1TX)		

Channel 54

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5264.71	102.93			99.61	4.31	33.48	34.47	347	150 Average	VERTICAL
2	5265.19	113.72			110.40	4.31	33.48	34.47	347	150 Peak	VERTICAL
3	5351.73	52.93	54.00	-1.07	49.42	4.35	33.63	34.47	347	150 Average	VERTICAL
4	5366.64	66.04	74.00	-7.96	62.49	4.36	33.66	34.47	347	150 Peak	VERTICAL

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

Channel 62

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5304.87	108.32			104.92	4.33	33.54	34.47	46	158 Peak	VERTICAL
2	5305.51	98.94			95.54	4.33	33.54	34.47	46	158 Average	VERTICAL
3	5351.67	52.86	54.00	-1.14	49.35	4.35	33.63	34.47	46	158 Average	VERTICAL
4	5352.95	71.45	74.00	-2.55	67.94	4.35	33.63	34.47	46	158 Peak	VERTICAL

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

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102, 110, 134 / Chain 2
Test Date	Jul. 15, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 1TX)		

Channel 102

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5459.68	67.92	74.00	-6.08	64.18	4.40	33.81	34.47	43	167	Peak	VERTICAL
2	5459.68	49.45	54.00	-4.55	45.71	4.40	33.81	34.47	43	167	Average	VERTICAL
3	5469.62	72.15	74.00	-1.85	68.37	4.41	33.84	34.47	43	167	Peak	VERTICAL
4	5469.62	52.71	54.00	-1.29	48.93	4.41	33.84	34.47	43	167	Average	VERTICAL
5	5503.91	109.94			106.10	4.42	33.90	34.48	43	167	Peak	VERTICAL
6	5504.87	99.34			95.50	4.42	33.90	34.48	43	167	Average	VERTICAL

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

Channel 110

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5443.75	51.61	54.00	-2.39	47.91	4.39	33.78	34.47	43	167	Average	VERTICAL
2	5454.33	65.93	74.00	-8.07	62.19	4.40	33.81	34.47	43	167	Peak	VERTICAL
3	5469.71	67.43	74.00	-6.57	63.65	4.41	33.84	34.47	43	167	Peak	VERTICAL
4	5470.00	52.77	54.00	-1.23	48.99	4.41	33.84	34.47	43	167	Average	VERTICAL
5	5545.67	113.08			109.13	4.43	34.00	34.48	43	167	Peak	VERTICAL
6	5546.15	102.41			98.46	4.43	34.00	34.48	43	167	Average	VERTICAL

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

Channel 134

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5665.83	100.58			96.25	4.47	34.37	34.51	47	151	Average	VERTICAL
2	5673.21	110.84			106.45	4.48	34.42	34.51	47	151	Peak	VERTICAL
3	5725.00	70.72	74.00	-3.28	66.16	4.50	34.57	34.51	47	151	Peak	VERTICAL
4	5726.73	52.67	54.00	-1.33	48.11	4.50	34.57	34.51	47	151	Average	VERTICAL

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

Temperature	23°C	Humidity	61%
Test Engineer	Paul Chen	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 2
Test Date	Jul. 15, 2015		
Test Mode	Mode 1 (Ant. 6 Dipole antenna / 6.4dBi / 1TX)		

Channel 151

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1	5707.24	67.05	68.20	-1.15	62.55	4.49	34.52	34.51	307	167 Peak	VERTICAL
2	5724.23	74.65	78.20	-3.55	70.09	4.50	34.57	34.51	307	167 Peak	VERTICAL
3	5758.85	109.08			104.42	4.51	34.68	34.53	307	167 Peak	VERTICAL
4	5759.17	98.12			93.46	4.51	34.68	34.53	307	167 Average	VERTICAL

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

Channel 159

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1	5708.14	60.27	68.20	-7.93	55.77	4.49	34.52	34.51	310	163 Peak	VERTICAL
2	5723.85	64.28	78.20	-13.92	59.72	4.50	34.57	34.51	310	163 Peak	VERTICAL
3	5799.81	109.15			104.38	4.52	34.78	34.53	310	163 Peak	VERTICAL
4	5807.18	98.65			93.82	4.53	34.83	34.53	310	163 Average	VERTICAL
5	5850.32	69.13	78.20	-9.07	64.20	4.54	34.93	34.54	310	163 Peak	VERTICAL
6	5860.71	66.90	68.20	-1.30	61.90	4.55	34.99	34.54	310	163 Peak	VERTICAL

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