



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 1 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4824.44	42.00	74.00	-32.00	40.66	3.31	33.06	35.03	Peak	100	251 HORIZONTAL
2	4824.94	28.30	54.00	-25.70	26.96	3.31	33.06	35.03	Average	100	251 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4823.68	42.12	74.00	-31.88	40.78	3.31	33.06	35.03	Peak	100	168 VERTICAL
2	4824.93	28.28	54.00	-25.72	26.94	3.31	33.06	35.03	Average	100	168 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 6 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4874.12	42.53	74.00	-31.47	41.07	3.33	33.16	35.03	Peak	100	321 HORIZONTAL
2	4874.28	27.99	54.00	-26.01	26.53	3.33	33.16	35.03	Average	100	321 HORIZONTAL
3	7310.48	31.49	54.00	-22.51	26.87	4.06	35.96	35.40	Average	100	245 HORIZONTAL
4	7310.68	45.14	74.00	-28.86	40.52	4.06	35.96	35.40	Peak	100	245 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4873.66	27.99	54.00	-26.01	26.53	3.33	33.16	35.03	Average	100	154 VERTICAL
2	4873.79	41.76	74.00	-32.24	40.30	3.33	33.16	35.03	Peak	100	154 VERTICAL
3	7311.13	31.51	54.00	-22.49	26.89	4.06	35.96	35.40	Average	100	295 VERTICAL
4	7311.98	44.59	74.00	-29.41	39.97	4.06	35.96	35.40	Peak	100	295 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch11 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4923.06	42.45	74.00	-31.55	40.85	3.35	33.26	35.01	Peak	100	145 HORIZONTAL
2	4924.40	28.40	54.00	-25.60	26.80	3.35	33.26	35.01	Average	100	145 HORIZONTAL
3	7382.66	32.46	54.00	-21.54	27.71	4.06	36.09	35.40	Average	100	64 HORIZONTAL
4	7389.08	46.33	74.00	-27.67	41.58	4.06	36.09	35.40	Peak	100	64 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4923.47	42.07	74.00	-31.93	40.47	3.35	33.26	35.01	Peak	100	232 VERTICAL
2	4924.58	28.42	54.00	-25.58	26.82	3.35	33.26	35.01	Average	100	232 VERTICAL
3	7383.68	32.51	54.00	-21.49	27.76	4.06	36.09	35.40	Average	100	127 VERTICAL
4	7389.18	46.60	74.00	-27.40	41.85	4.06	36.09	35.40	Peak	100	127 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 1 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4823.23	42.44	74.00	-31.56	41.10	3.31	33.06	35.03	Peak	100	276 HORIZONTAL
2	4824.55	28.24	54.00	-25.76	26.90	3.31	33.06	35.03	Average	100	276 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4823.26	42.49	74.00	-31.51	41.15	3.31	33.06	35.03	Peak	100	191 VERTICAL
2	4824.94	28.28	54.00	-25.72	26.94	3.31	33.06	35.03	Average	100	191 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 6 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB	dB/m	dB	
1	4873.34	42.32	74.00	-31.68	40.86	3.33	33.16	35.03	Peak	100	333 HORIZONTAL
2	4874.98	27.96	54.00	-26.04	26.50	3.33	33.16	35.03	Average	100	333 HORIZONTAL
3	7310.82	31.47	54.00	-22.53	26.85	4.06	35.96	35.40	Average	100	265 HORIZONTAL
4	7311.23	44.99	74.00	-29.01	40.37	4.06	35.96	35.40	Peak	100	265 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB	dB/m	dB	
1	4873.03	42.19	74.00	-31.81	40.73	3.33	33.16	35.03	Peak	100	88 VERTICAL
2	4873.74	28.13	54.00	-25.87	26.67	3.33	33.16	35.03	Average	100	88 VERTICAL
3	7310.45	31.45	54.00	-22.55	26.83	4.06	35.96	35.40	Average	100	176 VERTICAL
4	7311.34	45.29	74.00	-28.71	40.67	4.06	35.96	35.40	Peak	100	176 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch11 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	4924.01	41.90	74.00	-32.10	40.30	3.35	33.26	35.01	Peak	100	188 HORIZONTAL
2	4924.79	28.38	54.00	-25.62	26.78	3.35	33.26	35.01	Average	100	188 HORIZONTAL
3	7385.26	46.52	74.00	-27.48	41.77	4.06	36.09	35.40	Peak	100	286 HORIZONTAL
4	7386.13	32.35	54.00	-21.65	27.60	4.06	36.09	35.40	Average	100	286 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	4924.24	41.87	74.00	-32.13	40.27	3.35	33.26	35.01	Peak	100	232 VERTICAL
2	4924.92	28.37	54.00	-25.63	26.77	3.35	33.26	35.01	Average	100	232 VERTICAL
3	7385.30	45.68	74.00	-28.32	40.93	4.06	36.09	35.40	Peak	100	296 VERTICAL
4	7386.17	32.33	54.00	-21.67	27.58	4.06	36.09	35.40	Average	100	296 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 1 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4824.14	41.75	74.00	-32.25	40.41	3.31	33.06	35.03	Peak	100	193 HORIZONTAL
2	4824.60	26.97	54.00	-27.03	25.63	3.31	33.06	35.03	Average	100	193 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4823.52	41.16	74.00	-32.84	39.82	3.31	33.06	35.03	Peak	100	112 VERTICAL
2	4825.00	27.03	54.00	-26.97	25.69	3.31	33.06	35.03	Average	100	112 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 6 / Chain 1+ Chain 2+ Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	4874.40	40.83	74.00	-33.17	39.37	3.33	33.16	35.03	Peak	100	187 HORIZONTAL
2	4874.72	26.89	54.00	-27.11	25.43	3.33	33.16	35.03	Average	100	187 HORIZONTAL
3	7310.72	45.48	74.00	-28.52	40.86	4.06	35.96	35.40	Peak	100	84 HORIZONTAL
4	7310.77	31.63	54.00	-22.37	27.01	4.06	35.96	35.40	Average	100	84 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	4873.58	26.91	54.00	-27.09	25.45	3.33	33.16	35.03	Average	100	208 VERTICAL
2	4874.99	40.40	74.00	-33.60	38.94	3.33	33.16	35.03	Peak	100	208 VERTICAL
3	7310.14	45.74	74.00	-28.26	41.12	4.06	35.96	35.40	Peak	100	116 VERTICAL
4	7310.28	31.57	54.00	-22.43	26.95	4.06	35.96	35.40	Average	100	116 VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch11 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Preamp Factor			
MHz		dB ^u V/m	dB ^u V/m		dB	dB	dB/m	dB		cm	deg
1	4923.38	40.94	74.00	-33.06	39.34	3.35	33.26	35.01	Peak	100	294 HORIZONTAL
2	4923.79	27.22	54.00	-26.78	25.62	3.35	33.26	35.01	Average	100	294 HORIZONTAL
3	7386.00	45.61	74.00	-28.39	40.86	4.06	36.09	35.40	Peak	100	175 HORIZONTAL
4	7386.62	32.03	54.00	-21.97	27.28	4.06	36.09	35.40	Average	100	175 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Preamp Factor			
MHz		dB ^u V/m	dB ^u V/m		dB	dB	dB/m	dB		cm	deg
1	4923.40	42.22	74.00	-31.78	40.62	3.35	33.26	35.01	Peak	100	49 VERTICAL
2	4924.83	27.22	54.00	-26.78	25.62	3.35	33.26	35.01	Average	100	49 VERTICAL
3	7385.56	45.37	74.00	-28.63	40.62	4.06	36.09	35.40	Peak	100	127 VERTICAL
4	7386.58	32.04	54.00	-21.96	27.29	4.06	36.09	35.40	Average	100	127 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 1 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	4824.08	26.92	54.00	-27.08	25.58	3.31	33.06	35.03	Average	100	115	HORIZONTAL
2	4824.38	41.47	74.00	-32.53	40.13	3.31	33.06	35.03	Peak	100	115	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	4823.16	40.97	74.00	-33.03	39.63	3.31	33.06	35.03	Peak	100	193	VERTICAL
2	4824.83	26.99	54.00	-27.01	25.65	3.31	33.06	35.03	Average	100	193	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 6 / Chain 1+ Chain 2+ Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	4873.41	40.66	74.00	-33.34	39.20	3.33	33.16	35.03	Peak	100	189 HORIZONTAL
2	4874.99	26.82	54.00	-27.18	25.36	3.33	33.16	35.03	Average	100	189 HORIZONTAL
3	7310.39	45.36	74.00	-28.64	40.74	4.06	35.96	35.40	Peak	100	274 HORIZONTAL
4	7310.83	31.64	54.00	-22.36	27.02	4.06	35.96	35.40	Average	100	274 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	4874.87	26.84	54.00	-27.16	25.38	3.33	33.16	35.03	Average	100	231 VERTICAL
2	4874.87	40.87	74.00	-33.13	39.41	3.33	33.16	35.03	Peak	100	231 VERTICAL
3	7311.08	31.62	54.00	-22.38	27.00	4.06	35.96	35.40	Average	100	295 VERTICAL
4	7311.46	45.31	74.00	-28.69	40.69	4.06	35.96	35.40	Peak	100	295 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch11 / Chain 1+ Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	4923.08	41.29	74.00	-32.71	39.69	3.35	33.26	35.01	Peak	100	153 HORIZONTAL
2	4925.00	27.28	54.00	-26.72	25.68	3.35	33.26	35.01	Average	100	153 HORIZONTAL
3	7386.52	45.71	74.00	-28.29	40.96	4.06	36.09	35.40	Peak	100	88 HORIZONTAL
4	7386.59	31.98	54.00	-22.02	27.23	4.06	36.09	35.40	Average	100	88 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	4923.84	40.80	74.00	-33.20	39.20	3.35	33.26	35.01	Peak	100	286 VERTICAL
2	4924.11	27.31	54.00	-26.69	25.71	3.35	33.26	35.01	Average	100	286 VERTICAL
3	7385.04	45.57	74.00	-28.43	40.82	4.06	36.09	35.40	Peak	100	196 VERTICAL
4	7386.54	32.04	54.00	-21.96	27.29	4.06	36.09	35.40	Average	100	196 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 3 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4842.52	28.25	54.00	-25.75	26.87	3.32	33.09	35.03	Average	100	55	HORIZONTAL
2	4852.32	41.77	74.00	-32.23	40.39	3.32	33.09	35.03	Peak	100	55	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4840.72	41.87	74.00	-32.13	40.49	3.32	33.09	35.03	Peak	100	169	VERTICAL
2	4842.32	28.27	54.00	-25.73	26.89	3.32	33.09	35.03	Average	100	169	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 6 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBm	dBm			dB	dBmV	dB			
1	4877.36	28.00	54.00	-26.00	26.54	3.33	33.16	35.03	Average	100	175 HORIZONTAL
2	4881.68	41.35	74.00	-32.65	39.89	3.33	33.16	35.03	Peak	100	175 HORIZONTAL
3	7305.12	31.56	54.00	-22.44	26.98	4.06	35.92	35.40	Average	100	138 HORIZONTAL
4	7310.40	45.11	74.00	-28.89	40.49	4.06	35.96	35.40	Peak	100	138 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBm	dBm			dB	dBmV	dB			
1	4876.96	42.30	74.00	-31.70	40.84	3.33	33.16	35.03	Peak	100	233 VERTICAL
2	4877.36	28.08	54.00	-25.92	26.62	3.33	33.16	35.03	Average	100	233 VERTICAL
3	7301.12	31.53	54.00	-22.47	26.95	4.06	35.92	35.40	Average	100	80 VERTICAL
4	7308.96	45.34	74.00	-28.66	40.72	4.06	35.96	35.40	Peak	100	80 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 9 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	4902.20	43.03	74.00	-30.97	41.52	3.34	33.19	35.02	Peak	100	240 HORIZONTAL
2	4912.72	28.57	54.00	-25.43	27.02	3.34	33.23	35.02	Average	100	240 HORIZONTAL
3	7363.56	46.03	74.00	-27.97	41.31	4.06	36.06	35.40	Peak	100	164 HORIZONTAL
4	7365.36	32.27	54.00	-21.73	27.55	4.06	36.06	35.40	Average	100	164 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	4903.36	41.72	74.00	-32.28	40.21	3.34	33.19	35.02	Peak	100	134 VERTICAL
2	4913.72	28.59	54.00	-25.41	27.04	3.34	33.23	35.02	Average	100	134 VERTICAL
3	7363.32	46.05	74.00	-27.95	41.33	4.06	36.06	35.40	Peak	100	64 VERTICAL
4	7365.44	32.29	54.00	-21.71	27.57	4.06	36.06	35.40	Average	100	64 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 3 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	Line	dB	dBuV	dB	dB/m	dB			
1	4843.45	28.21	54.00	-25.79	26.83	3.32	33.09	35.03	Average	100	82	HORIZONTAL
2	4843.80	41.84	74.00	-32.16	40.46	3.32	33.09	35.03	Peak	100	82	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	Line	dB	dBuV	dB	dB/m	dB			
1	4843.24	28.20	54.00	-25.80	26.82	3.32	33.09	35.03	Average	100	179	VERTICAL
2	4844.76	41.85	74.00	-32.15	40.47	3.32	33.09	35.03	Peak	100	179	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 6 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	4873.53	42.10	74.00	-31.90	40.64	3.33	33.16	35.03	Peak	100	73 HORIZONTAL
2	4874.99	27.94	54.00	-26.06	26.48	3.33	33.16	35.03	Average	100	73 HORIZONTAL
3	7310.46	31.41	54.00	-22.59	26.79	4.06	35.96	35.40	Average	100	147 HORIZONTAL
4	7310.80	45.61	74.00	-28.39	40.99	4.06	35.96	35.40	Peak	100	147 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	4874.37	42.66	74.00	-31.34	41.20	3.33	33.16	35.03	Peak	100	330 VERTICAL
2	4874.75	27.94	54.00	-26.06	26.48	3.33	33.16	35.03	Average	100	330 VERTICAL
3	7310.60	31.50	54.00	-22.50	26.88	4.06	35.96	35.40	Average	100	235 VERTICAL
4	7311.20	46.35	74.00	-27.65	41.73	4.06	35.96	35.40	Peak	100	235 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 9 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	4903.06	28.65	54.00	-25.35	27.14	3.34	33.19	35.02	Average	100	163 HORIZONTAL
2	4904.85	42.27	74.00	-31.73	40.72	3.34	33.23	35.02	Peak	100	163 HORIZONTAL
3	7355.84	46.53	74.00	-27.47	41.85	4.06	36.02	35.40	Peak	100	262 HORIZONTAL
4	7355.86	32.14	54.00	-21.86	27.46	4.06	36.02	35.40	Average	100	262 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	4903.10	42.37	74.00	-31.63	40.86	3.34	33.19	35.02	Peak	100	100 VERTICAL
2	4904.25	28.60	54.00	-25.40	27.09	3.34	33.19	35.02	Average	100	100 VERTICAL
3	7355.68	32.14	54.00	-21.86	27.46	4.06	36.02	35.40	Average	100	169 VERTICAL
4	7356.95	46.00	74.00	-28.00	41.32	4.06	36.02	35.40	Peak	100	169 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4843.44	42.72	74.00	-31.28	41.34	3.32	33.09	35.03	Peak	100	173 HORIZONTAL
2	4843.60	28.16	54.00	-25.84	26.78	3.32	33.09	35.03	Average	100	173 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4843.36	28.11	54.00	-25.89	26.73	3.32	33.09	35.03	Average	100	256 VERTICAL
2	4843.78	42.54	74.00	-31.46	41.16	3.32	33.09	35.03	Peak	100	256 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4873.32	27.89	54.00	-26.11	26.43	3.33	33.16	35.03	Average	100	275	HORIZONTAL
2	4873.99	42.30	74.00	-31.70	40.84	3.33	33.16	35.03	Peak	100	275	HORIZONTAL
3	7310.70	45.66	74.00	-28.34	41.04	4.06	35.96	35.40	Peak	100	329	HORIZONTAL
4	7310.93	31.44	54.00	-22.56	26.82	4.06	35.96	35.40	Average	100	329	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4873.86	41.57	74.00	-32.43	40.11	3.33	33.16	35.03	Peak	100	175	VERTICAL
2	4874.32	27.94	54.00	-26.06	26.48	3.33	33.16	35.03	Average	100	175	VERTICAL
3	7311.11	31.43	54.00	-22.57	26.81	4.06	35.96	35.40	Average	100	242	VERTICAL
4	7311.19	45.46	74.00	-28.54	40.84	4.06	35.96	35.40	Peak	100	242	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	4903.03	28.52	54.00	-25.48	27.01	3.34	33.19	35.02	Average	100	139 HORIZONTAL
2	4903.61	42.57	74.00	-31.43	41.06	3.34	33.19	35.02	Peak	100	139 HORIZONTAL
3	7355.79	32.09	54.00	-21.91	27.41	4.06	36.02	35.40	Average	100	47 HORIZONTAL
4	7356.48	46.90	74.00	-27.10	42.22	4.06	36.02	35.40	Peak	100	47 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	4903.84	28.53	54.00	-25.47	27.02	3.34	33.19	35.02	Average	100	211 VERTICAL
2	4904.12	42.46	74.00	-31.54	40.95	3.34	33.19	35.02	Peak	100	211 VERTICAL
3	7355.58	46.27	74.00	-27.73	41.59	4.06	36.02	35.40	Peak	100	153 VERTICAL
4	7355.89	32.13	54.00	-21.87	27.45	4.06	36.02	35.40	Average	100	153 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 3 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4843.12	40.88	74.00	-33.12	39.50	3.32	33.09	35.03	Peak	100	232 HORIZONTAL
2	4843.68	27.16	54.00	-26.84	25.78	3.32	33.09	35.03	Average	100	232 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4843.44	27.13	54.00	-26.87	25.75	3.32	33.09	35.03	Average	100	139 VERTICAL
2	4844.28	41.75	74.00	-32.25	40.37	3.32	33.09	35.03	Peak	100	139 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 6 / Chain 1 + Chain 2 +Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	4873.48	41.23	74.00	-32.77	39.77	3.33	33.16	35.03	Peak	100	163 HORIZONTAL
2	4874.98	26.83	54.00	-27.17	25.37	3.33	33.16	35.03	Average	100	163 HORIZONTAL
3	7310.75	45.52	74.00	-28.48	40.90	4.06	35.96	35.40	Peak	100	242 HORIZONTAL
4	7310.86	31.64	54.00	-22.36	27.02	4.06	35.96	35.40	Average	100	242 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	4874.05	40.77	74.00	-33.23	39.31	3.33	33.16	35.03	Peak	100	189 VERTICAL
2	4874.78	26.86	54.00	-27.14	25.40	3.33	33.16	35.03	Average	100	189 VERTICAL
3	7311.14	31.63	54.00	-22.37	27.01	4.06	35.96	35.40	Average	100	297 VERTICAL
4	7311.18	46.29	74.00	-27.71	41.67	4.06	35.96	35.40	Peak	100	297 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 9 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor				
1	4904.58	27.20	54.00	-26.80	25.69	3.34	33.19	35.02	Average	100	180	HORIZONTAL
2	4904.80	41.92	74.00	-32.08	40.37	3.34	33.23	35.02	Peak	100	180	HORIZONTAL
3	7355.30	47.09	74.00	-26.91	42.41	4.06	36.02	35.40	Peak	100	256	HORIZONTAL
4	7355.66	32.56	54.00	-21.44	27.88	4.06	36.02	35.40	Average	100	256	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor				
1	4904.57	40.86	74.00	-33.14	39.35	3.34	33.19	35.02	Peak	100	100	VERTICAL
2	4904.76	27.24	54.00	-26.76	25.69	3.34	33.23	35.02	Average	100	100	VERTICAL
3	7355.81	46.55	74.00	-27.45	41.87	4.06	36.02	35.40	Peak	100	180	VERTICAL
4	7355.82	32.59	54.00	-21.41	27.91	4.06	36.02	35.40	Average	100	180	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	4843.90	41.95	74.00	-32.05	40.57	3.32	33.09	35.03	Peak	100	211	HORIZONTAL
2	4843.92	27.11	54.00	-26.89	25.73	3.32	33.09	35.03	Average	100	211	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	4843.86	41.31	74.00	-32.69	39.93	3.32	33.09	35.03	Peak	100	305	VERTICAL
2	4843.87	27.12	54.00	-26.88	25.74	3.32	33.09	35.03	Average	100	305	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / Chain 1 + Chain 2 +Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	dB	cm	deg	
1	4873.62	40.51	74.00	-33.49	39.05	3.33	33.16	35.03	Peak	100	324 HORIZONTAL
2	4874.75	26.81	54.00	-27.19	25.35	3.33	33.16	35.03	Average	100	324 HORIZONTAL
3	7310.92	31.64	54.00	-22.36	27.02	4.06	35.96	35.40	Average	100	254 HORIZONTAL
4	7311.87	45.70	74.00	-28.30	41.08	4.06	35.96	35.40	Peak	100	254 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	dB	cm	deg	
1	4873.12	41.48	74.00	-32.52	40.02	3.33	33.16	35.03	Peak	100	105 VERTICAL
2	4873.72	26.78	54.00	-27.22	25.32	3.33	33.16	35.03	Average	100	105 VERTICAL
3	7310.55	31.62	54.00	-22.38	27.00	4.06	35.96	35.40	Average	100	163 VERTICAL
4	7311.13	45.81	74.00	-28.19	41.19	4.06	35.96	35.40	Peak	100	163 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4903.54	27.21	54.00	-26.79	25.70	3.34	33.19	35.02	Average	100	218	HORIZONTAL
2	4904.26	41.59	74.00	-32.41	40.08	3.34	33.19	35.02	Peak	100	218	HORIZONTAL
3	7355.68	46.57	74.00	-27.43	41.89	4.06	36.02	35.40	Peak	100	125	HORIZONTAL
4	7357.00	32.51	54.00	-21.49	27.83	4.06	36.02	35.40	Average	100	125	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4904.00	27.33	54.00	-26.67	25.82	3.34	33.19	35.02	Average	100	155	VERTICAL
2	4904.43	41.73	74.00	-32.27	40.22	3.34	33.19	35.02	Peak	100	155	VERTICAL
3	7355.54	32.59	54.00	-21.41	27.91	4.06	36.02	35.40	Average	100	226	VERTICAL
4	7356.22	46.79	74.00	-27.21	42.11	4.06	36.02	35.40	Peak	100	226	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 1 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	4823.00	42.25	74.00	-31.75	40.91	3.31	33.06	35.03	Peak	100	94	HORIZONTAL
2	4824.35	28.26	54.00	-25.74	26.92	3.31	33.06	35.03	Average	100	94	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	4823.90	31.22	54.00	-22.78	29.88	3.31	33.06	35.03	Average	115	141	VERTICAL
2	4824.33	43.13	74.00	-30.87	41.79	3.31	33.06	35.03	Peak	115	141	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 6 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				
1	4873.89	44.48	74.00	-29.52	43.02	3.33	33.16	35.03	Peak	118	118	HORIZONTAL
2	4873.96	35.73	54.00	-18.27	34.27	3.33	33.16	35.03	Average	118	118	HORIZONTAL
3	7308.20	31.35	54.00	-22.65	26.73	4.06	35.96	35.40	Average	100	165	HORIZONTAL
4	7311.70	45.73	74.00	-28.27	41.11	4.06	35.96	35.40	Peak	100	165	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				
1	4873.82	45.78	74.00	-28.22	44.32	3.33	33.16	35.03	Peak	101	133	VERTICAL
2	4873.96	38.66	54.00	-15.34	37.20	3.33	33.16	35.03	Average	101	133	VERTICAL
3	7308.02	31.41	54.00	-22.59	26.79	4.06	35.96	35.40	Average	100	97	VERTICAL
4	7311.88	45.43	74.00	-28.57	40.81	4.06	35.96	35.40	Peak	100	97	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 11 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dBuV	dB	dB/m				
1	4923.42	42.01	74.00	-31.99	40.41	3.35	33.26	35.01	Peak	100	235	HORIZONTAL
2	4923.96	29.08	54.00	-24.92	27.48	3.35	33.26	35.01	Average	100	235	HORIZONTAL
3	7383.12	45.90	74.00	-28.10	41.15	4.06	36.09	35.40	Peak	100	130	HORIZONTAL
4	7383.76	32.18	54.00	-21.82	27.43	4.06	36.09	35.40	Average	100	130	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dBuV	dB	dB/m				
1	4923.88	43.41	74.00	-30.59	41.81	3.35	33.26	35.01	Peak	100	157	VERTICAL
2	4923.97	32.62	54.00	-21.38	31.02	3.35	33.26	35.01	Average	100	157	VERTICAL
3	7383.30	45.94	74.00	-28.06	41.19	4.06	36.09	35.40	Peak	100	132	VERTICAL
4	7387.28	32.26	54.00	-21.74	27.51	4.06	36.09	35.40	Average	100	132	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 1 / Chain 1+Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4824.14	42.72	74.00	-31.28	41.38	3.31	33.06	35.03	Peak	100	82 HORIZONTAL
2	4824.17	28.51	54.00	-25.49	27.17	3.31	33.06	35.03	Average	100	82 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4873.98	38.87	54.00	-15.13	37.41	3.33	33.16	35.03	Average	100	118 VERTICAL
2	4874.09	46.33	74.00	-27.67	44.87	3.33	33.16	35.03	Peak	100	118 VERTICAL
3	7307.94	31.68	54.00	-22.32	27.06	4.06	35.96	35.40	Average	100	102 VERTICAL
4	7310.06	45.37	74.00	-28.63	40.75	4.06	35.96	35.40	Peak	100	102 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 6 / Chain 1+Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				
1	4873.96	34.88	54.00	-19.12	33.42	3.33	33.16	35.03	Average	119	102	HORIZONTAL
2	4874.07	43.96	74.00	-30.04	42.50	3.33	33.16	35.03	Peak	119	102	HORIZONTAL
3	7308.26	31.67	54.00	-22.33	27.05	4.06	35.96	35.40	Average	100	113	HORIZONTAL
4	7313.96	45.36	74.00	-28.64	40.74	4.06	35.96	35.40	Peak	100	113	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				
1	4873.98	38.87	54.00	-15.13	37.41	3.33	33.16	35.03	Average	100	118	VERTICAL
2	4874.09	46.33	74.00	-27.67	44.87	3.33	33.16	35.03	Peak	100	118	VERTICAL
3	7307.94	31.68	54.00	-22.32	27.06	4.06	35.96	35.40	Average	100	102	VERTICAL
4	7310.06	45.37	74.00	-28.63	40.75	4.06	35.96	35.40	Peak	100	102	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 11 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
1	4923.87	29.76	54.00	-24.24	28.16	3.35	33.26	35.01	Average	141	206	HORIZONTAL
2	4924.69	42.89	74.00	-31.11	41.29	3.35	33.26	35.01	Peak	141	206	HORIZONTAL
3	7382.54	32.48	54.00	-21.52	27.73	4.06	36.09	35.40	Average	100	284	HORIZONTAL
4	7382.62	46.07	74.00	-27.93	41.32	4.06	36.09	35.40	Peak	100	284	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
1	4923.94	43.56	74.00	-30.44	41.96	3.35	33.26	35.01	Peak	100	138	VERTICAL
2	4923.97	33.15	54.00	-20.85	31.55	3.35	33.26	35.01	Average	100	138	VERTICAL
3	7386.70	32.62	54.00	-21.38	27.87	4.06	36.09	35.40	Average	100	202	VERTICAL
4	7389.54	46.86	74.00	-27.14	42.11	4.06	36.09	35.40	Peak	100	202	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 1 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	4824.08	27.56	54.00	-26.44	26.22	3.31	33.06	35.03	Average	100	247 HORIZONTAL
2	4824.46	41.44	74.00	-32.56	40.10	3.31	33.06	35.03	Peak	100	247 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	4823.52	41.45	74.00	-32.55	40.11	3.31	33.06	35.03	Peak	100	73 VERTICAL
2	4824.14	27.43	54.00	-26.57	26.09	3.31	33.06	35.03	Average	100	73 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 6 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	4874.00	32.72	54.00	-21.28	31.26	3.33	33.16	35.03	Average	100	118 HORIZONTAL
2	4874.00	44.75	74.00	-29.25	43.29	3.33	33.16	35.03	Peak	100	118 HORIZONTAL
3	7310.04	31.74	54.00	-22.26	27.12	4.06	35.96	35.40	Average	100	141 HORIZONTAL
4	7311.65	46.66	74.00	-27.34	42.04	4.06	35.96	35.40	Peak	100	141 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	4873.96	38.94	54.00	-15.06	37.48	3.33	33.16	35.03	Average	144	122 VERTICAL
2	4874.18	45.46	74.00	-28.54	44.00	3.33	33.16	35.03	Peak	144	122 VERTICAL
3	7310.10	31.91	54.00	-22.09	27.29	4.06	35.96	35.40	Average	100	349 VERTICAL
4	7310.26	45.47	74.00	-28.53	40.85	4.06	35.96	35.40	Peak	100	349 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 11 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	4924.03	31.65	54.00	-22.35	30.05	3.35	33.26	35.01	Average	100	233 HORIZONTAL
2	4924.10	42.11	74.00	-31.89	40.51	3.35	33.26	35.01	Peak	100	233 HORIZONTAL
3	7381.40	45.74	74.00	-28.26	40.99	4.06	36.09	35.40	Peak	100	125 HORIZONTAL
4	7383.60	32.08	54.00	-21.92	27.33	4.06	36.09	35.40	Average	100	125 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	4923.98	33.84	54.00	-20.16	32.24	3.35	33.26	35.01	Average	128	206 VERTICAL
2	4924.08	42.74	74.00	-31.26	41.14	3.35	33.26	35.01	Peak	128	206 VERTICAL
3	7383.38	32.20	54.00	-21.80	27.45	4.06	36.09	35.40	Average	100	214 VERTICAL
4	7389.60	45.95	74.00	-28.05	41.20	4.06	36.09	35.40	Peak	100	214 VERTICAL

Note:

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

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

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



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 1 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4823.80	42.52	74.00	-31.48	41.18	3.31	33.06	35.03	Peak	100	97 HORIZONTAL
2	4826.46	28.66	54.00	-25.34	27.32	3.31	33.06	35.03	Average	100	97 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4820.98	42.03	74.00	-31.97	40.69	3.31	33.06	35.03	Peak	100	179 VERTICAL
2	4827.02	28.65	54.00	-25.35	27.31	3.31	33.06	35.03	Average	100	179 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 6 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	4875.22	45.44	74.00	-28.56	43.98	3.33	33.16	35.03	Peak	100	159 HORIZONTAL
2	4875.90	31.45	54.00	-22.55	29.99	3.33	33.16	35.03	Average	100	159 HORIZONTAL
3	7311.18	46.76	74.00	-27.24	42.14	4.06	35.96	35.40	Peak	100	237 HORIZONTAL
4	7315.86	33.33	54.00	-20.67	28.71	4.06	35.96	35.40	Average	100	237 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	4875.30	33.14	54.00	-20.86	31.68	3.33	33.16	35.03	Average	100	338 VERTICAL
2	4883.90	46.73	74.00	-27.27	45.27	3.33	33.16	35.03	Peak	100	338 VERTICAL
3	7304.00	49.19	74.00	-24.81	44.61	4.06	35.92	35.40	Peak	100	72 VERTICAL
4	7312.70	35.92	54.00	-18.08	31.30	4.06	35.96	35.40	Average	100	72 VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch11 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
MHz		dBuV/m	dBuV/m								
1	4903.90	29.13	54.00	-24.87	27.62	3.34	33.19	35.02	Average	100	181 HORIZONTAL
2	4910.50	41.95	74.00	-32.05	40.40	3.34	33.23	35.02	Peak	100	181 HORIZONTAL
3	7397.40	46.33	74.00	-27.67	41.54	4.06	36.13	35.40	Peak	100	75 HORIZONTAL
4	7403.30	32.96	54.00	-21.04	28.17	4.06	36.13	35.40	Average	100	75 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
MHz		dBuV/m	dBuV/m								
1	4901.20	29.17	54.00	-24.83	27.66	3.34	33.19	35.02	Average	100	183 VERTICAL
2	4916.10	41.60	74.00	-32.40	40.04	3.35	33.23	35.02	Peak	100	183 VERTICAL
3	7397.10	45.86	74.00	-28.14	41.07	4.06	36.13	35.40	Peak	100	92 VERTICAL
4	7400.60	32.93	54.00	-21.07	28.14	4.06	36.13	35.40	Average	100	92 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 1 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
1	4814.90	29.82	54.00	-24.18	28.53	3.31	33.02	35.04	Average	100	132	HORIZONTAL
2	4837.70	32.55	74.00	-41.45	31.18	3.31	33.09	35.03	Peak	100	132	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
1	4812.80	32.26	74.00	-41.74	30.97	3.31	33.02	35.04	Peak	100	213	VERTICAL
2	4814.70	29.74	54.00	-24.26	28.45	3.31	33.02	35.04	Average	100	213	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 6 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	4877.40	29.95	54.00	-24.05	28.49	3.33	33.16	35.03	Average	100	70 HORIZONTAL
2	4886.10	32.93	74.00	-41.07	31.47	3.33	33.16	35.03	Peak	100	70 HORIZONTAL
3	7306.40	36.10	74.00	-37.90	31.52	4.06	35.92	35.40	Peak	100	114 HORIZONTAL
4	7307.20	33.56	54.00	-20.44	28.98	4.06	35.92	35.40	Average	100	114 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	4871.85	37.69	74.00	-36.31	36.23	3.33	33.16	35.03	Peak	100	162 VERTICAL
2	4873.23	34.02	54.00	-19.98	32.56	3.33	33.16	35.03	Average	100	162 VERTICAL
3	7314.28	36.24	74.00	-37.76	31.62	4.06	35.96	35.40	Peak	100	247 VERTICAL
4	7315.88	33.27	54.00	-20.73	28.65	4.06	35.96	35.40	Average	100	247 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch11 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB/m			Loss	Factor	Factor			
1	4923.55	32.66	74.00	-41.34	31.06	3.35	33.26	35.01	Peak	100	255 HORIZONTAL
2	4923.96	29.34	54.00	-24.66	27.74	3.35	33.26	35.01	Average	100	255 HORIZONTAL
3	7385.55	37.20	74.00	-36.80	32.45	4.06	36.09	35.40	Peak	100	199 HORIZONTAL
4	7386.01	33.62	54.00	-20.38	28.87	4.06	36.09	35.40	Average	100	199 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB/m			Loss	Factor	Factor			
1	4924.57	29.33	54.00	-24.67	27.73	3.35	33.26	35.01	Average	100	105 VERTICAL
2	4925.59	32.55	74.00	-41.45	30.95	3.35	33.26	35.01	Peak	100	105 VERTICAL
3	7384.69	36.93	74.00	-37.07	32.18	4.06	36.09	35.40	Peak	100	25 VERTICAL
4	7388.37	33.82	54.00	-20.18	29.07	4.06	36.09	35.40	Average	100	25 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 1 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4814.76	29.71	54.00	-24.29	28.42	3.31	33.02	35.04	Average	100	207	HORIZONTAL
2	4816.88	32.86	74.00	-41.14	31.57	3.31	33.02	35.04	Peak	100	207	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4814.44	33.00	74.00	-41.00	31.71	3.31	33.02	35.04	Peak	100	125	VERTICAL
2	4814.72	29.75	54.00	-24.25	28.46	3.31	33.02	35.04	Average	100	125	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 6 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	4875.28	30.05	54.00	-23.95	28.59	3.33	33.16	35.03	Average	100	49 HORIZONTAL
2	4876.92	33.63	74.00	-40.37	32.17	3.33	33.16	35.03	Peak	100	49 HORIZONTAL
3	7310.12	33.97	54.00	-20.03	29.35	4.06	35.96	35.40	Average	100	152 HORIZONTAL
4	7312.84	36.76	74.00	-37.24	32.14	4.06	35.96	35.40	Peak	100	152 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	4874.64	35.11	74.00	-38.89	33.65	3.33	33.16	35.03	Peak	100	348 VERTICAL
2	4875.12	32.32	54.00	-21.68	30.86	3.33	33.16	35.03	Average	100	348 VERTICAL
3	7307.32	37.25	74.00	-36.75	32.67	4.06	35.92	35.40	Peak	100	254 VERTICAL
4	7318.72	34.45	54.00	-19.55	29.83	4.06	35.96	35.40	Average	100	254 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch11 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4914.12	29.68	54.00	-24.32	28.13	3.34	33.23	35.02	Average	100	250 HORIZONTAL
2	4915.12	32.77	74.00	-41.23	31.21	3.35	33.23	35.02	Peak	100	250 HORIZONTAL
3	7377.60	36.50	74.00	-37.50	31.75	4.06	36.09	35.40	Peak	100	286 HORIZONTAL
4	7394.84	33.77	54.00	-20.23	28.98	4.06	36.13	35.40	Average	100	286 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4925.08	30.55	54.00	-23.45	28.95	3.35	33.26	35.01	Average	100	284 VERTICAL
2	4925.32	33.46	74.00	-40.54	31.86	3.35	33.26	35.01	Peak	100	284 VERTICAL
3	7390.92	36.97	74.00	-37.03	32.22	4.06	36.09	35.40	Peak	100	329 VERTICAL
4	7394.76	33.86	54.00	-20.14	29.07	4.06	36.13	35.40	Average	100	329 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 1 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4823.63	44.08	74.00	-29.92	42.74	3.31	33.06	35.03	Peak	100	159 HORIZONTAL
2	4823.69	30.77	54.00	-23.23	29.43	3.31	33.06	35.03	Average	100	159 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4823.90	42.94	74.00	-31.06	41.60	3.31	33.06	35.03	Peak	100	206 VERTICAL
2	4823.90	31.74	54.00	-22.26	30.40	3.31	33.06	35.03	Average	100	206 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 6 / Chain 1+ Chain 2+ Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m			dB	dBuV	dB			
1	4875.10	48.89	74.00	-25.11	47.43	3.33	33.16	35.03	Peak	100	133 HORIZONTAL
2	4875.13	33.65	54.00	-20.35	32.19	3.33	33.16	35.03	Average	100	133 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m			dB	dBuV	dB			
1	4874.33	40.36	54.00	-13.64	38.90	3.33	33.16	35.03	Average	100	157 VERTICAL
2	4874.35	56.45	74.00	-17.55	54.99	3.33	33.16	35.03	Peak	100	157 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch11 / Chain 1+ Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor				
1	4923.56	29.84	54.00	-24.16	28.24	3.35	33.26	35.01	Average	100	236	HORIZONTAL
2	4924.33	42.49	74.00	-31.51	40.89	3.35	33.26	35.01	Peak	100	236	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor				
1	4923.08	33.18	54.00	-20.82	31.58	3.35	33.26	35.01	Average	100	157	VERTICAL
2	4924.28	46.01	74.00	-27.99	44.41	3.35	33.26	35.01	Peak	100	157	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 1 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4824.00	42.74	74.00	-31.26	41.40	3.31	33.06	35.03	Peak	100	139 HORIZONTAL
2	4824.46	30.25	54.00	-23.75	28.91	3.31	33.06	35.03	Average	100	139 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4823.60	42.34	74.00	-31.66	41.00	3.31	33.06	35.03	Peak	100	184 VERTICAL
2	4824.16	30.59	54.00	-23.41	29.25	3.31	33.06	35.03	Average	100	184 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 6 / Chain 1+ Chain 2+ Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4872.56	45.92	74.00	-28.08	44.46	3.33	33.16	35.03	Peak	100	140	HORIZONTAL
2	4878.28	32.59	54.00	-21.41	31.13	3.33	33.16	35.03	Average	100	140	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4871.68	52.16	74.00	-21.84	50.70	3.33	33.16	35.03	Peak	100	157	VERTICAL
2	4878.44	37.75	54.00	-16.25	36.29	3.33	33.16	35.03	Average	100	157	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch11 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4924.07	42.81	74.00	-31.19	41.21	3.35	33.26	35.01	Peak	100	217 HORIZONTAL
2	4924.49	29.66	54.00	-24.34	28.06	3.35	33.26	35.01	Average	100	217 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4923.63	42.78	74.00	-31.22	41.18	3.35	33.26	35.01	Peak	100	273 VERTICAL
2	4924.15	31.37	54.00	-22.63	29.77	3.35	33.26	35.01	Average	100	273 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 3 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4842.68	28.54	54.00	-25.46	27.16	3.32	33.09	35.03	Average	100	161 HORIZONTAL
2	4847.46	41.84	74.00	-32.16	40.46	3.32	33.09	35.03	Peak	100	161 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4842.60	28.50	54.00	-25.50	27.12	3.32	33.09	35.03	Average	100	244 VERTICAL
2	4843.54	42.07	74.00	-31.93	40.69	3.32	33.09	35.03	Peak	100	244 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 6 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
1	4877.38	42.19	74.00	-31.81	40.73	3.33	33.16	35.03	Peak	100	129	HORIZONTAL
2	4878.12	28.87	54.00	-25.13	27.41	3.33	33.16	35.03	Average	100	129	HORIZONTAL
3	7313.30	45.00	74.00	-29.00	40.38	4.06	35.96	35.40	Peak	100	218	HORIZONTAL
4	7315.88	31.42	54.00	-22.58	26.80	4.06	35.96	35.40	Average	100	218	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
1	4869.02	41.89	74.00	-32.11	40.47	3.33	33.12	35.03	Peak	100	232	VERTICAL
2	4878.52	28.98	54.00	-25.02	27.52	3.33	33.16	35.03	Average	100	232	VERTICAL
3	7315.80	44.82	74.00	-29.18	40.20	4.06	35.96	35.40	Peak	100	300	VERTICAL
4	7315.98	31.42	54.00	-22.58	26.80	4.06	35.96	35.40	Average	100	300	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 9 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
MHz	dBuV/m	dBuV/m	dB						cm	deg	
1	4899.74	42.15	74.00	-31.85	40.64	3.34	33.19	35.02	Peak	100	84 HORIZONTAL
2	4901.60	29.17	54.00	-24.83	27.66	3.34	33.19	35.02	Average	100	84 HORIZONTAL
3	7353.94	32.25	54.00	-21.75	27.57	4.06	36.02	35.40	Average	100	156 HORIZONTAL
4	7356.66	46.60	74.00	-27.40	41.92	4.06	36.02	35.40	Peak	100	156 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
MHz	dBuV/m	dBuV/m	dB						cm	deg	
1	4901.94	29.12	54.00	-24.88	27.61	3.34	33.19	35.02	Average	100	136 VERTICAL
2	4904.78	42.69	74.00	-31.31	41.14	3.34	33.23	35.02	Peak	100	136 VERTICAL
3	7351.08	45.60	74.00	-28.40	40.92	4.06	36.02	35.40	Peak	100	56 VERTICAL
4	7356.56	32.30	54.00	-21.70	27.62	4.06	36.02	35.40	Average	100	56 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 3 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4842.56	32.58	74.00	-41.42	31.20	3.32	33.09	35.03	Peak	100	99	HORIZONTAL
2	4842.72	29.72	54.00	-24.28	28.34	3.32	33.09	35.03	Average	100	99	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4845.04	29.76	54.00	-24.24	28.38	3.32	33.09	35.03	Average	100	191	VERTICAL
2	4845.04	32.59	74.00	-41.41	31.21	3.32	33.09	35.03	Peak	100	191	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 6 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Loss			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				cm	deg	
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	dB	cm	deg				
1	4878.24	29.97	54.00	-24.03	28.51	3.33	33.16	35.03	Average	100	154	HORIZONTAL		
2	4879.44	33.41	74.00	-40.59	31.95	3.33	33.16	35.03	Peak	100	154	HORIZONTAL		
3	7304.40	35.25	74.00	-38.75	30.67	4.06	35.92	35.40	Peak	100	200	HORIZONTAL		
4	7316.00	32.49	54.00	-21.51	27.87	4.06	35.96	35.40	Average	100	200	HORIZONTAL		

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Loss			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				cm	deg	
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	dB	cm	deg				
1	4876.80	32.79	74.00	-41.21	31.33	3.33	33.16	35.03	Peak	100	220	VERTICAL		
2	4877.60	29.96	54.00	-24.04	28.50	3.33	33.16	35.03	Average	100	220	VERTICAL		
3	7315.32	35.89	74.00	-38.11	31.27	4.06	35.96	35.40	Peak	100	288	VERTICAL		
4	7321.00	32.61	54.00	-21.39	27.99	4.06	35.96	35.40	Average	100	288	VERTICAL		



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 9 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4904.12	29.72	54.00	-24.28	28.21	3.34	33.19	35.02	Average	100	70 HORIZONTAL
2	4904.64	32.72	74.00	-41.28	31.21	3.34	33.19	35.02	Peak	100	70 HORIZONTAL
3	7351.84	33.65	54.00	-20.35	28.97	4.06	36.02	35.40	Average	100	129 HORIZONTAL
4	7353.20	36.91	74.00	-37.09	32.23	4.06	36.02	35.40	Peak	100	129 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4904.12	29.71	54.00	-24.29	28.20	3.34	33.19	35.02	Average	100	304 VERTICAL
2	4904.44	32.34	74.00	-41.66	30.83	3.34	33.19	35.02	Peak	100	304 VERTICAL
3	7353.48	36.34	74.00	-37.66	31.66	4.06	36.02	35.40	Peak	100	233 VERTICAL
4	7354.12	33.65	54.00	-20.35	28.97	4.06	36.02	35.40	Average	100	233 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	4843.52	29.43	54.00	-24.57	28.05	3.32	33.09	35.03	Average	100	191	HORIZONTAL
2	4844.76	32.56	74.00	-41.44	31.18	3.32	33.09	35.03	Peak	100	191	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	4842.24	29.44	54.00	-24.56	28.06	3.32	33.09	35.03	Average	100	55	VERTICAL
2	4842.92	32.51	74.00	-41.49	31.13	3.32	33.09	35.03	Peak	100	55	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	4877.68	32.50	74.00	-41.50	31.04	3.33	33.16	35.03	Peak	100	146 HORIZONTAL
2	4877.80	29.81	54.00	-24.19	28.35	3.33	33.16	35.03	Average	100	146 HORIZONTAL
3	7307.00	35.66	74.00	-38.34	31.08	4.06	35.92	35.40	Peak	100	229 HORIZONTAL
4	7315.96	32.50	54.00	-21.50	27.88	4.06	35.96	35.40	Average	100	229 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	4874.84	33.18	74.00	-40.82	31.72	3.33	33.16	35.03	Peak	100	281 VERTICAL
2	4878.20	29.90	54.00	-24.10	28.44	3.33	33.16	35.03	Average	100	281 VERTICAL
3	7316.16	35.82	74.00	-38.18	31.20	4.06	35.96	35.40	Peak	100	352 VERTICAL
4	7320.96	32.61	54.00	-21.39	27.99	4.06	35.96	35.40	Average	100	352 VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4901.68	29.99	54.00	-24.01	28.48	3.34	33.19	35.02	Average	100	97 HORIZONTAL
2	4902.88	33.39	74.00	-40.61	31.88	3.34	33.19	35.02	Peak	100	97 HORIZONTAL
3	7353.68	33.36	54.00	-20.64	28.68	4.06	36.02	35.40	Average	100	166 HORIZONTAL
4	7356.12	36.32	74.00	-37.68	31.64	4.06	36.02	35.40	Peak	100	166 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4901.52	30.09	54.00	-23.91	28.58	3.34	33.19	35.02	Average	100	197 VERTICAL
2	4904.68	33.12	74.00	-40.88	31.61	3.34	33.19	35.02	Peak	100	197 VERTICAL
3	7348.76	36.24	74.00	-37.76	31.56	4.06	36.02	35.40	Peak	100	114 VERTICAL
4	7356.88	33.33	54.00	-20.67	28.65	4.06	36.02	35.40	Average	100	114 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 3 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4843.86	43.25	74.00	-30.75	41.87	3.32	33.09	35.03	Peak	100	160 HORIZONTAL
2	4844.25	29.65	54.00	-24.35	28.27	3.32	33.09	35.03	Average	100	160 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4843.58	30.35	54.00	-23.65	28.97	3.32	33.09	35.03	Average	100	231 VERTICAL
2	4844.14	42.58	74.00	-31.42	41.20	3.32	33.09	35.03	Peak	100	231 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 6 / Chain 1 + Chain 2 +Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB				
1	4874.02	29.74	54.00	-24.26	28.28	3.33	33.16	35.03	Average	100	328	HORIZONTAL
2	4874.32	42.43	74.00	-31.57	40.97	3.33	33.16	35.03	Peak	100	328	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB				
1	4873.81	42.76	74.00	-31.24	41.30	3.33	33.16	35.03	Peak	100	268	VERTICAL
2	4874.20	32.21	54.00	-21.79	30.75	3.33	33.16	35.03	Average	100	268	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 9 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	4903.64	30.12	54.00	-23.88	28.61	3.34	33.19	35.02	Average	100	137	HORIZONTAL
2	4903.69	43.25	74.00	-30.75	41.74	3.34	33.19	35.02	Peak	100	137	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	4903.59	43.59	74.00	-30.41	42.08	3.34	33.19	35.02	Peak	100	193	VERTICAL
2	4903.98	31.16	54.00	-22.84	29.65	3.34	33.19	35.02	Average	100	193	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (3TX)

Horizontal

Freq	Level	Limit	Over	Read	Cable Antenna Preamp				A/Pos	T/Pos	Pol/Phase
					Line	Limit	Factor	Remark			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4843.88	29.72	54.00	-24.28	28.34	3.32	33.09	35.03	Average	100	109 HORIZONTAL
2	4843.89	43.34	74.00	-30.66	41.96	3.32	33.09	35.03	Peak	100	109 HORIZONTAL

Vertical

Freq	Level	Limit	Over	Read	Cable Antenna Preamp				A/Pos	T/Pos	Pol/Phase
					Line	Limit	Factor	Remark			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4843.51	43.44	74.00	-30.56	42.06	3.32	33.09	35.03	Peak	100	218 VERTICAL
2	4843.73	29.90	54.00	-24.10	28.52	3.32	33.09	35.03	Average	100	218 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / Chain 1 + Chain 2 +Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	4873.98	42.00	74.00	-32.00	40.54	3.33	33.16	35.03	Peak	100	273 HORIZONTAL
2	4874.18	29.46	54.00	-24.54	28.00	3.33	33.16	35.03	Average	100	273 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	4874.17	42.56	74.00	-31.44	41.10	3.33	33.16	35.03	Peak	100	203 VERTICAL
2	4874.42	30.82	54.00	-23.18	29.36	3.33	33.16	35.03	Average	100	203 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	4903.52	43.11	74.00	-30.89	41.60	3.34	33.19	35.02	Peak	100	206 HORIZONTAL
2	4904.11	30.40	54.00	-23.60	28.89	3.34	33.19	35.02	Average	100	206 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	4903.72	43.52	74.00	-30.48	42.01	3.34	33.19	35.02	Peak	100	155 VERTICAL
2	4903.87	30.63	54.00	-23.37	29.12	3.34	33.19	35.02	Average	100	155 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 1 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Line Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4823.95	39.77	54.00	-14.23	38.43	3.31	33.06	35.03	Average	175	183	HORIZONTAL
2	4823.99	45.84	74.00	-28.16	44.50	3.31	33.06	35.03	Peak	175	183	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4823.94	46.55	74.00	-27.45	45.21	3.31	33.06	35.03	Peak	100	15	VERTICAL
2	4823.99	41.20	54.00	-12.80	39.86	3.31	33.06	35.03	Average	100	15	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 6 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
1	4873.94	46.35	54.00	-7.65	44.89	3.33	33.16	35.03	Average	126	26 HORIZONTAL
2	4873.99	49.24	74.00	-24.76	47.78	3.33	33.16	35.03	Peak	126	26 HORIZONTAL
3	7310.10	54.48	74.00	-19.52	49.86	4.06	35.96	35.40	Peak	153	54 HORIZONTAL
4	7310.22	48.53	54.00	-5.47	43.91	4.06	35.96	35.40	Average	153	54 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
1	4873.94	46.02	54.00	-7.98	44.56	3.33	33.16	35.03	Average	100	180 VERTICAL
2	4873.96	49.14	74.00	-24.86	47.68	3.33	33.16	35.03	Peak	100	180 VERTICAL
3	7310.24	47.34	54.00	-6.66	42.72	4.06	35.96	35.40	Average	129	113 VERTICAL
4	7311.88	53.63	74.00	-20.37	49.01	4.06	35.96	35.40	Peak	129	113 VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 11 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4924.01	40.71	54.00	-13.29	39.11	3.35	33.26	35.01	Average	135	180	HORIZONTAL
2	4924.06	45.91	74.00	-28.09	44.31	3.35	33.26	35.01	Peak	135	180	HORIZONTAL
3	7386.64	36.23	54.00	-17.77	31.48	4.06	36.09	35.40	Average	198	322	HORIZONTAL
4	7387.48	48.39	74.00	-25.61	43.64	4.06	36.09	35.40	Peak	198	322	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4923.98	40.46	54.00	-13.54	38.86	3.35	33.26	35.01	Average	100	142	VERTICAL
2	4924.06	45.36	74.00	-28.64	43.76	3.35	33.26	35.01	Peak	100	142	VERTICAL
3	7386.64	35.57	54.00	-18.43	30.82	4.06	36.09	35.40	Average	127	80	VERTICAL
4	7389.52	47.52	74.00	-26.48	42.77	4.06	36.09	35.40	Peak	127	80	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 1 / Chain 1+Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4823.98	40.95	74.00	-33.05	39.61	3.31	33.06	35.03	Peak	100	158 HORIZONTAL
2	4823.98	39.61	54.00	-14.39	38.27	3.31	33.06	35.03	Average	100	158 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	4823.95	42.74	74.00	-31.26	41.40	3.31	33.06	35.03	Peak	100	165 VERTICAL
2	4823.96	41.73	54.00	-12.27	40.39	3.31	33.06	35.03	Average	100	165 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 6 / Chain 1+Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				
1	4873.94	48.03	74.00	-25.97	46.57	3.33	33.16	35.03	Peak	180	140	HORIZONTAL
2	4873.97	47.41	54.00	-6.59	45.95	3.33	33.16	35.03	Average	180	140	HORIZONTAL
3	7309.88	41.76	74.00	-32.24	37.14	4.06	35.96	35.40	Peak	127	56	HORIZONTAL
4	7310.16	39.73	54.00	-14.27	35.11	4.06	35.96	35.40	Average	127	56	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				
1	4873.97	49.56	54.00	-4.44	48.10	3.33	33.16	35.03	Average	100	157	VERTICAL
2	4873.99	50.04	74.00	-23.96	48.58	3.33	33.16	35.03	Peak	100	157	VERTICAL
3	7309.90	40.37	74.00	-33.63	35.75	4.06	35.96	35.40	Peak	111	73	VERTICAL
4	7310.10	38.41	54.00	-15.59	33.79	4.06	35.96	35.40	Average	111	73	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 11 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
MHz		dBuV/m	dBuV/m						cm	deg	
1	4923.97	39.99	54.00	-14.01	38.39	3.35	33.26	35.01	Average	122	158 HORIZONTAL
2	4923.97	41.22	74.00	-32.78	39.62	3.35	33.26	35.01	Peak	122	158 HORIZONTAL
3	7388.96	34.16	54.00	-19.84	29.41	4.06	36.09	35.40	Average	100	118 HORIZONTAL
4	7389.00	37.16	74.00	-36.84	32.41	4.06	36.09	35.40	Peak	100	118 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
MHz		dBuV/m	dBuV/m						cm	deg	
1	4923.94	39.76	54.00	-14.24	38.16	3.35	33.26	35.01	Average	100	158 VERTICAL
2	4924.01	40.89	74.00	-33.11	39.29	3.35	33.26	35.01	Peak	100	158 VERTICAL
3	7384.76	38.60	74.00	-35.40	33.85	4.06	36.09	35.40	Peak	100	262 VERTICAL
4	7385.10	35.91	54.00	-18.09	31.16	4.06	36.09	35.40	Average	100	262 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 1 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	4823.88	48.08	74.00	-25.92	46.74	3.31	33.06	35.03	Peak	100	160 HORIZONTAL
2	4824.00	43.72	54.00	-10.28	42.38	3.31	33.06	35.03	Average	100	160 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	4823.96	47.75	54.00	-6.25	46.41	3.31	33.06	35.03	Average	100	167 VERTICAL
2	4823.99	50.91	74.00	-23.09	49.57	3.31	33.06	35.03	Peak	100	167 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 6 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	4873.98	45.62	54.00	-8.38	44.16	3.33	33.16	35.03	Average	150	140	HORIZONTAL
2	4873.99	49.64	74.00	-24.36	48.18	3.33	33.16	35.03	Peak	150	140	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	4873.93	53.18	74.00	-20.82	51.72	3.33	33.16	35.03	Peak	100	157	VERTICAL
2	4873.97	50.87	54.00	-3.13	49.41	3.33	33.16	35.03	Average	100	157	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 11 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	4923.97	43.20	54.00	-10.80	41.60	3.35	33.26	35.01	Average	121	158 HORIZONTAL
2	4924.06	47.83	74.00	-26.17	46.23	3.35	33.26	35.01	Peak	121	158 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	4923.99	45.70	54.00	-8.30	44.10	3.35	33.26	35.01	Average	100	157 VERTICAL
2	4924.03	48.88	74.00	-25.12	47.28	3.35	33.26	35.01	Peak	100	157 VERTICAL

Note:

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

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

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



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 149 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11487.42	50.31	74.00	-23.69	41.70	5.11	38.78	35.28	Peak	100	223 HORIZONTAL
2	11489.02	35.99	54.00	-18.01	27.38	5.11	38.78	35.28	Average	100	223 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11491.68	49.45	74.00	-24.55	40.84	5.11	38.78	35.28	Peak	100	269 VERTICAL
2	11491.74	35.74	54.00	-18.26	27.13	5.11	38.78	35.28	Average	100	269 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 157 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11567.32	35.90	54.00	-18.10	27.25	5.13	38.82	35.30	Average	100	70 HORIZONTAL
2	11569.56	49.87	74.00	-24.13	41.21	5.13	38.83	35.30	Peak	100	70 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11566.94	37.81	54.00	-16.19	29.16	5.13	38.82	35.30	Average	100	204 VERTICAL
2	11573.40	52.39	74.00	-21.61	43.72	5.14	38.83	35.30	Peak	100	204 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch165 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	11650.84	50.89	74.00	-23.11	42.17	5.16	38.86	35.30	Peak	100	143 HORIZONTAL
2	11652.90	36.37	54.00	-17.63	27.65	5.16	38.86	35.30	Average	100	143 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	11652.50	36.35	54.00	-17.65	27.63	5.16	38.86	35.30	Average	100	84 VERTICAL
2	11654.22	51.45	74.00	-22.55	42.73	5.16	38.86	35.30	Peak	100	84 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 149 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dBuV	dB	dB/m		cm	deg	
1	11447.20	35.76	54.00	-18.24	27.19	5.11	38.73	35.27	Average	100	183	HORIZONTAL
2	11480.80	49.20	74.00	-24.80	40.60	5.11	38.77	35.28	Peak	100	183	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dBuV	dB	dB/m		cm	deg	
1	11441.40	35.76	54.00	-18.24	27.20	5.10	38.73	35.27	Average	100	312	VERTICAL
2	11501.40	49.56	74.00	-24.44	40.93	5.12	38.79	35.28	Peak	100	312	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch157 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11570.80	36.37	54.00	-17.63	27.70	5.14	38.83	35.30	Average	100	165 HORIZONTAL
2	11601.20	49.06	74.00	-24.94	40.38	5.15	38.83	35.30	Peak	100	165 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11570.40	37.38	54.00	-16.62	28.71	5.14	38.83	35.30	Average	100	187 VERTICAL
2	11571.20	51.96	74.00	-22.04	43.29	5.14	38.83	35.30	Peak	100	187 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch165 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11651.60	36.29	54.00	-17.71	27.57	5.16	38.86	35.30	Average	100	189 HORIZONTAL
2	11698.80	49.47	74.00	-24.53	40.71	5.18	38.88	35.30	Peak	100	189 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11653.40	36.25	54.00	-17.75	27.53	5.16	38.86	35.30	Average	100	307 VERTICAL
2	11656.60	49.70	74.00	-24.30	40.98	5.16	38.86	35.30	Peak	100	307 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 149 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11444.20	35.73	54.00	-18.27	27.16	5.11	38.73	35.27	Average	100	149 HORIZONTAL
2	11491.00	49.34	74.00	-24.66	40.73	5.11	38.78	35.28	Peak	100	149 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11444.20	35.72	54.00	-18.28	27.15	5.11	38.73	35.27	Average	100	243 VERTICAL
2	11494.00	48.94	74.00	-25.06	40.32	5.12	38.78	35.28	Peak	100	243 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 157 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11609.80	49.05	74.00	-24.95	40.36	5.15	38.84	35.30	Peak	100	93 HORIZONTAL
2	11620.00	35.90	54.00	-18.10	27.20	5.15	38.85	35.30	Average	100	93 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11561.00	49.97	74.00	-24.03	41.32	5.13	38.82	35.30	Peak	100	213 VERTICAL
2	11566.60	36.75	54.00	-17.25	28.10	5.13	38.82	35.30	Average	100	213 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch165 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Antenna	Preamp	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11650.00	36.13	54.00	-17.87	27.41	5.16	38.86	35.30	Average	100	141 HORIZONTAL
2	11682.20	49.48	74.00	-24.52	40.74	5.17	38.87	35.30	Peak	100	141 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Antenna	Preamp	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11644.60	36.18	54.00	-17.82	27.46	5.16	38.86	35.30	Average	100	246 VERTICAL
2	11693.80	49.09	74.00	-24.91	40.34	5.17	38.88	35.30	Peak	100	246 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 149 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11442.00	36.17	54.00	-17.83	27.61	5.10	38.73	35.27	Average	100	205 HORIZONTAL
2	11464.00	49.41	74.00	-24.59	40.83	5.11	38.75	35.28	Peak	100	205 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11441.40	36.14	54.00	-17.86	27.58	5.10	38.73	35.27	Average	100	87 VERTICAL
2	11490.40	48.96	74.00	-25.04	40.35	5.11	38.78	35.28	Peak	100	87 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 157 / Chain 1+ Chain 2+ Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg			
1	11533.80	50.13	74.00	-23.87	41.48	5.13	38.81	35.29	Peak	100	347	HORIZONTAL
2	11620.00	36.29	54.00	-17.71	27.59	5.15	38.85	35.30	Average	100	347	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg			
1	11561.60	36.42	54.00	-17.58	27.77	5.13	38.82	35.30	Average	100	154	VERTICAL
2	11619.80	49.81	74.00	-24.19	41.11	5.15	38.85	35.30	Peak	100	154	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch165 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	dB	cm	deg		
1	11606.40	50.54	74.00	-23.46	41.85	5.15	38.84	35.30	Peak	100	223	HORIZONTAL
2	11658.00	36.55	54.00	-17.45	27.83	5.16	38.86	35.30	Average	100	223	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	dB	cm	deg		
1	11639.20	36.51	54.00	-17.49	27.79	5.16	38.86	35.30	Average	100	112	VERTICAL
2	11656.40	49.96	74.00	-24.04	41.24	5.16	38.86	35.30	Peak	100	112	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 149 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11441.40	36.20	54.00	-17.80	27.64	5.10	38.73	35.27	Average	100	259 HORIZONTAL
2	11450.00	49.56	74.00	-24.44	40.97	5.11	38.75	35.27	Peak	100	259 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11441.20	36.19	54.00	-17.81	27.63	5.10	38.73	35.27	Average	100	167 VERTICAL
2	11444.60	49.13	74.00	-24.87	40.56	5.11	38.73	35.27	Peak	100	167 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 157 / Chain 1+ Chain 2+ Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor				
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg			
1	11533.20	50.25	74.00	-23.75	41.61	5.13	38.80	35.29	Peak	100	161	HORIZONTAL
2	11617.20	36.31	54.00	-17.69	27.62	5.15	38.84	35.30	Average	100	161	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor				
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg			
1	11576.60	49.20	74.00	-24.80	40.53	5.14	38.83	35.30	Peak	100	58	VERTICAL
2	11619.80	36.37	54.00	-17.63	27.67	5.15	38.85	35.30	Average	100	58	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch165 / Chain 1+ Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
MHz	dBuV/m	dBuV/m	dB	dB	dBuV	dB	dB/m	dB	cm	deg	cm	deg
1	11658.60	36.51	54.00	-17.49	27.79	5.16	38.86	35.30	Average	100	265	HORIZONTAL
2	11665.20	51.15	74.00	-22.85	42.43	5.16	38.86	35.30	Peak	100	265	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
MHz	dBuV/m	dBuV/m	dB	dB	dBuV	dB	dB/m	dB	cm	deg	cm	deg
1	11649.80	36.65	54.00	-17.35	27.93	5.16	38.86	35.30	Average	100	176	VERTICAL
2	11679.00	50.15	74.00	-23.85	41.41	5.17	38.87	35.30	Peak	100	176	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 151 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	11508.52	35.87	54.00	-18.13	27.24	5.12	38.79	35.28	Average	100	48 HORIZONTAL
2	11511.38	50.51	74.00	-23.49	41.88	5.12	38.79	35.28	Peak	100	48 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	11506.02	35.80	54.00	-18.20	27.17	5.12	38.79	35.28	Average	100	102 VERTICAL
2	11513.84	49.78	74.00	-24.22	41.15	5.12	38.79	35.28	Peak	100	102 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 159 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11590.54	50.41	74.00	-23.59	41.74	5.14	38.83	35.30	Peak	100	264 HORIZONTAL
2	11593.28	36.23	54.00	-17.77	27.56	5.14	38.83	35.30	Average	100	264 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11588.73	50.63	74.00	-23.37	41.96	5.14	38.83	35.30	Peak	100	22 VERTICAL
2	11590.55	35.92	54.00	-18.08	27.25	5.14	38.83	35.30	Average	100	22 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 151 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Loss Factor			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	Line	dB	dBuV	dB	dB/m	dB	cm	deg	cm	deg	
1	11460.80	35.47	54.00	-18.53	26.88	5.11	38.75	35.27	Average	100	73	HORIZONTAL		
2	11481.60	48.76	74.00	-25.24	40.16	5.11	38.77	35.28	Peak	100	73	HORIZONTAL		

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Loss Factor			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	Line	dB	dBuV	dB	dB/m	dB	cm	deg	cm	deg	
1	11461.20	35.50	54.00	-18.50	26.91	5.11	38.75	35.27	Average	100	169	VERTICAL		
2	11559.60	49.18	74.00	-24.82	40.53	5.13	38.82	35.30	Peak	100	169	VERTICAL		



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 159 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	dB	cm	deg		
1	11593.40	49.72	74.00	-24.28	41.05	5.14	38.83	35.30	Peak	100	149	HORIZONTAL
2	11628.20	36.04	54.00	-17.96	27.33	5.16	38.85	35.30	Average	100	149	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	dB	cm	deg		
1	11625.40	36.06	54.00	-17.94	27.35	5.16	38.85	35.30	Average	100	265	VERTICAL
2	11637.40	50.55	74.00	-23.45	41.83	5.16	38.86	35.30	Peak	100	265	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 151 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	dB				
1	11461.00	35.52	54.00	-18.48	26.93	5.11	38.75	35.27	Average	100	165	HORIZONTAL
2	11551.40	49.04	74.00	-24.96	40.39	5.13	38.82	35.30	Peak	100	165	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	dB				
1	11461.00	35.53	54.00	-18.47	26.94	5.11	38.75	35.27	Average	100	65	VERTICAL
2	11490.00	48.54	74.00	-25.46	39.93	5.11	38.78	35.28	Peak	100	65	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 159 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg			
1	11595.20	49.36	74.00	-24.64	40.69	5.14	38.83	35.30	Peak	100	190	HORIZONTAL
2	11625.20	36.05	54.00	-17.95	27.34	5.16	38.85	35.30	Average	100	190	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg			
1	11556.80	49.72	74.00	-24.28	41.07	5.13	38.82	35.30	Peak	100	53	VERTICAL
2	11625.20	36.03	54.00	-17.97	27.32	5.16	38.85	35.30	Average	100	53	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 151 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	cm	deg	
1	11461.00	36.06	54.00	-17.94	27.47	5.11	38.75	35.27	Average	100	105	HORIZONTAL
2	11461.40	49.63	74.00	-24.37	41.04	5.11	38.75	35.27	Peak	100	105	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	cm	deg	
1	11464.00	36.04	54.00	-17.96	27.46	5.11	38.75	35.28	Average	100	22	VERTICAL
2	11517.20	49.71	74.00	-24.29	41.08	5.12	38.80	35.29	Peak	100	22	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 159 / Chain 1 + Chain 2 +Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamplifier			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11625.20	36.44	54.00	-17.56	27.73	5.16	38.85	35.30	Average	100	230 HORIZONTAL
2	11627.60	49.64	74.00	-24.36	40.93	5.16	38.85	35.30	Peak	100	230 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamplifier			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11542.20	49.74	74.00	-24.26	41.10	5.13	38.81	35.30	Peak	100	138 VERTICAL
2	11626.20	36.46	54.00	-17.54	27.75	5.16	38.85	35.30	Average	100	138 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 151 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamplifier			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11460.80	36.12	54.00	-17.88	27.53	5.11	38.75	35.27	Average	100	209 HORIZONTAL
2	11469.20	49.12	74.00	-24.88	40.52	5.11	38.77	35.28	Peak	100	209 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamplifier			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11474.00	49.77	74.00	-24.23	41.17	5.11	38.77	35.28	Peak	100	80 VERTICAL
2	11489.60	35.99	54.00	-18.01	27.38	5.11	38.78	35.28	Average	100	80 VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 159 / Chain 1 + Chain 2 +Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi) (3TX)

Horizontal

Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor				
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11610.00	49.61	74.00	-24.39	40.92	5.15	38.84	35.30 Peak	100	234	HORIZONTAL
2	11623.20	36.44	54.00	-17.56	27.73	5.16	38.85	35.30 Average	100	234	HORIZONTAL

Vertical

Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor				
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11587.40	50.31	74.00	-23.69	41.64	5.14	38.83	35.30 Peak	100	132	VERTICAL
2	11640.00	36.46	54.00	-17.54	27.74	5.16	38.86	35.30 Average	100	132	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.