

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11g CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 4: EUT 1 + Set 5 Panel Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4913.60	32.63	54.00	-21.37	28.18	5.97	32.97	34.49	253	122	Average	HORIZONTAL
2	4925.10	45.78	74.00	-28.22	41.34	5.94	32.99	34.49	253	122	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4908.40	46.82	74.00	-27.18	42.37	6.00	32.95	34.50	274	165	Peak
2	4925.20	36.48	54.00	-17.52	32.04	5.94	32.99	34.49	274	165	Average

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 4: EUT 1 + Set 5 Panel Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4808.90	32.70	54.00	-21.30	28.22	6.21	32.80	34.53	288	156 Average	HORIZONTAL
2	4825.30	45.29	74.00	-28.71	40.82	6.15	32.84	34.52	288	156 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4799.50	35.83	54.00	-18.17	31.35	6.21	32.80	34.53	310	129 Average	VERTICAL
2	4815.10	46.28	74.00	-27.72	41.80	6.18	32.82	34.52	310	129 Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 4: EUT 1 + Set 5 Panel Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4875.10	34.77	54.00	-19.23	30.31	6.06	32.91	34.51	196	142 Average	HORIZONTAL
2	4876.70	47.82	74.00	-26.18	43.36	6.06	32.91	34.51	196	142 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4874.80	39.55	54.00	-14.45	35.09	6.06	32.91	34.51	193	151 Average	VERTICAL
2	4876.60	52.78	74.00	-21.22	48.32	6.06	32.91	34.51	193	151 Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 4: EUT 1 + Set 5 Panel Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4922.90	32.34	54.00	-21.66	27.89	5.97	32.97	34.49	169	308	Average	HORIZONTAL
2	4929.90	45.12	74.00	-28.88	40.68	5.94	32.99	34.49	169	308	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4913.90	32.57	54.00	-21.43	28.12	5.97	32.97	34.49	132	176	Average
2	4942.20	45.30	74.00	-28.70	40.86	5.91	33.01	34.48	132	176	Peak

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 3 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 4: EUT 1 + Set 5 Panel Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4865.30	32.65	54.00	-21.35	28.19	6.09	32.88	34.51	175	165 Average	HORIZONTAL
2	4866.90	45.29	74.00	-28.71	40.83	6.09	32.88	34.51	175	165 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4865.60	33.51	54.00	-20.49	29.05	6.09	32.88	34.51	214	161 Average	VERTICAL
2	4866.10	46.45	74.00	-27.55	41.99	6.09	32.88	34.51	214	161 Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 4: EUT 1 + Set 5 Panel Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4850.60	46.38	74.00	-27.62	41.91	6.12	32.86	34.51	190	180 Peak	HORIZONTAL
2	4861.90	33.52	54.00	-20.48	29.06	6.09	32.88	34.51	190	180 Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4861.90	33.34	54.00	-20.66	28.88	6.09	32.88	34.51	206	159 Average	VERTICAL
2	4864.50	46.00	74.00	-28.00	41.54	6.09	32.88	34.51	206	159 Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 4: EUT 1 + Set 5 Panel Antenna / 7 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4879.50	32.40	54.00	-21.60	27.93	6.06	32.91	34.50	184	185	Average	HORIZONTAL
2	4895.60	45.25	74.00	-28.75	40.80	6.00	32.95	34.50	184	185	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4900.30	32.47	54.00	-21.53	28.02	6.00	32.95	34.50	133	194	Average
2	4916.70	45.06	74.00	-28.94	40.61	5.97	32.97	34.49	133	194	Peak

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	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11b CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 5: EUT 1 + Set 6 Sector Antenna / 5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4826.92	42.77	54.00	-11.23	38.45	6.94	31.11	33.73	257	212	Average	HORIZONTAL
2	4826.92	48.27	74.00	-25.73	43.95	6.94	31.11	33.73	257	212	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4823.90	56.07	74.00	-17.93	51.77	6.94	31.09	33.73	186	202	Peak	VERTICAL
2	4823.96	51.95	54.00	-2.05	47.65	6.94	31.09	33.73	186	202	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11b CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 5: EUT 1 + Set 6 Sector Antenna / 5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.92	49.56	74.00	-24.44	45.16	6.96	31.15	33.71	197	211	Peak	HORIZONTAL
2	4873.94	44.91	54.00	-9.09	40.51	6.96	31.15	33.71	197	211	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.94	52.75	54.00	-1.25	48.35	6.96	31.15	33.71	221	199	Average	VERTICAL
2	4873.96	55.85	74.00	-18.15	51.45	6.96	31.15	33.71	221	199	Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11b CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 5: EUT 1 + Set 6 Sector Antenna / 5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4923.94	51.55	74.00	-22.45	47.03	6.98	31.22	33.68	269	209	Peak	HORIZONTAL
2	4923.96	46.00	54.00	-8.00	41.48	6.98	31.22	33.68	269	209	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4923.86	55.40	74.00	-18.60	50.88	6.98	31.22	33.68	205	201	Peak	VERTICAL
2	4923.94	50.96	54.00	-3.04	46.44	6.98	31.22	33.68	205	201	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11g CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 5: EUT 1 + Set 6 Sector Antenna / 5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4816.82	46.57	74.00	-27.43	42.09	6.18	32.82	34.52	150	139	Peak	HORIZONTAL
2	4827.16	33.94	54.00	-20.06	29.47	6.15	32.84	34.52	150	139	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4821.34	33.54	54.00	-20.46	29.06	6.18	32.82	34.52	109	168	Average	VERTICAL
2	4829.12	47.70	74.00	-26.30	43.23	6.15	32.84	34.52	109	168	Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11g CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 5: EUT 1 + Set 6 Sector Antenna / 5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4874.23	49.40	74.00	-24.60	44.94	6.06	32.91	34.51	174	159	Peak	HORIZONTAL
2	4875.59	37.55	54.00	-16.45	33.09	6.06	32.91	34.51	174	159	Average	HORIZONTAL
3	7303.21	51.62	74.00	-22.38	41.71	7.50	37.17	34.76	153	179	Peak	HORIZONTAL
4	7306.92	39.10	54.00	-14.90	29.19	7.50	37.17	34.76	153	179	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4875.33	58.18	74.00	-15.82	53.72	6.06	32.91	34.51	196	212	Peak	VERTICAL
2	4875.85	44.97	54.00	-9.03	40.51	6.06	32.91	34.51	196	212	Average	VERTICAL
3	7313.69	39.10	54.00	-14.90	29.19	7.50	37.17	34.76	90	169	Average	VERTICAL
4	7314.16	52.29	74.00	-21.71	42.38	7.50	37.17	34.76	90	169	Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11g CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 5: EUT 1 + Set 6 Sector Antenna / 5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4925.07	45.94	74.00	-28.06	41.50	5.94	32.99	34.49	225	146	Peak	HORIZONTAL
2	4931.15	33.21	54.00	-20.79	28.77	5.94	32.99	34.49	225	146	Average	HORIZONTAL
3	7391.70	39.25	54.00	-14.75	28.96	7.78	37.28	34.77	266	222	Average	HORIZONTAL
4	7394.25	51.29	74.00	-22.71	41.00	7.78	37.28	34.77	266	222	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4916.45	33.26	54.00	-20.74	28.81	5.97	32.97	34.49	167	173	Average	VERTICAL
2	4927.21	46.29	74.00	-27.71	41.85	5.94	32.99	34.49	167	173	Peak	VERTICAL
3	7391.85	51.95	74.00	-22.05	41.66	7.78	37.28	34.77	140	194	Peak	VERTICAL
4	7392.57	39.50	54.00	-14.50	29.21	7.78	37.28	34.77	140	194	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 5: EUT 1 + Set 6 Sector Antenna / 5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4814.22	33.68	54.00	-20.32	29.20	6.18	32.82	34.52	123	182	Average	HORIZONTAL
2	4829.62	46.67	74.00	-27.33	42.20	6.15	32.84	34.52	123	182	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4826.58	49.85	74.00	-24.15	45.38	6.15	32.84	34.52	197	209	Peak	VERTICAL
2	4827.53	37.32	54.00	-16.68	32.85	6.15	32.84	34.52	197	209	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 5: EUT 1 + Set 6 Sector Antenna / 5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4875.19	38.47	54.00	-15.53	34.01	6.06	32.91	34.51	184	258	Average	HORIZONTAL
2	4876.81	52.65	74.00	-21.35	48.19	6.06	32.91	34.51	184	258	Peak	HORIZONTAL
3	7309.09	38.85	54.00	-15.15	28.94	7.50	37.17	34.76	245	149	Average	HORIZONTAL
4	7310.19	52.92	74.00	-21.08	43.01	7.50	37.17	34.76	245	149	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4875.13	44.01	54.00	-9.99	39.55	6.06	32.91	34.51	195	250	Average	VERTICAL
2	4875.65	57.57	74.00	-16.43	53.11	6.06	32.91	34.51	195	250	Peak	VERTICAL
3	7301.13	51.17	74.00	-22.83	41.26	7.50	37.17	34.76	188	177	Peak	VERTICAL
4	7311.03	39.00	54.00	-15.00	29.09	7.50	37.17	34.76	188	177	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 5: EUT 1 + Set 6 Sector Antenna / 5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4923.54	46.77	74.00	-27.23	42.32	5.97	32.97	34.49	227	161	Peak	HORIZONTAL
2	4925.91	34.48	54.00	-19.52	30.04	5.94	32.99	34.49	227	161	Average	HORIZONTAL
3	7384.29	39.30	54.00	-14.70	29.01	7.78	37.28	34.77	190	142	Average	HORIZONTAL
4	7386.17	52.36	74.00	-21.64	42.07	7.78	37.28	34.77	190	142	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4923.91	35.80	54.00	-18.20	31.36	5.94	32.99	34.49	193	239	Average	VERTICAL
2	4933.20	47.34	74.00	-26.66	42.90	5.94	32.99	34.49	193	239	Peak	VERTICAL
3	7380.59	39.24	54.00	-14.76	28.95	7.78	37.28	34.77	141	159	Average	VERTICAL
4	7384.76	52.17	74.00	-21.83	41.88	7.78	37.28	34.77	141	159	Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 3 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 5: EUT 1 + Set 6 Sector Antenna / 5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4834.97	33.39	54.00	-20.61	28.92	6.15	32.84	34.52	286	184	Average	HORIZONTAL
2	4839.20	46.41	74.00	-27.59	41.95	6.12	32.86	34.52	286	184	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4852.28	34.55	54.00	-19.45	30.08	6.12	32.86	34.51	200	206	Average	VERTICAL
2	4853.52	46.58	74.00	-27.42	42.12	6.09	32.88	34.51	200	206	Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 5: EUT 1 + Set 6 Sector Antenna / 5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4874.58	33.89	54.00	-20.11	29.43	6.06	32.91	34.51	91	179	Average	HORIZONTAL
2	4879.09	46.33	74.00	-27.67	41.86	6.06	32.91	34.50	91	179	Peak	HORIZONTAL
3	7317.22	52.98	74.00	-21.02	42.97	7.57	37.20	34.76	157	140	Peak	HORIZONTAL
4	7317.69	38.96	54.00	-15.04	28.95	7.57	37.20	34.76	157	140	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4874.29	48.35	74.00	-25.65	43.89	6.06	32.91	34.51	200	162	Peak	VERTICAL
2	4874.35	36.89	54.00	-17.11	32.43	6.06	32.91	34.51	200	162	Average	VERTICAL
3	7312.62	51.56	74.00	-22.44	41.65	7.50	37.17	34.76	201	169	Peak	VERTICAL
4	7317.25	39.07	54.00	-14.93	29.06	7.57	37.20	34.76	201	169	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 5: EUT 1 + Set 6 Sector Antenna / 5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4897.95	33.30	54.00	-20.70	28.85	6.00	32.95	34.50	136	183	Average	HORIZONTAL
2	4904.75	46.86	74.00	-27.14	42.41	6.00	32.95	34.50	136	183	Peak	HORIZONTAL
3	7350.01	39.73	54.00	-14.27	29.63	7.64	37.23	34.77	223	154	Average	HORIZONTAL
4	7365.09	52.51	74.00	-21.49	42.32	7.71	37.25	34.77	223	154	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4901.50	32.98	54.00	-21.02	28.53	6.00	32.95	34.50	92	111	Average	VERTICAL
2	4905.82	47.92	74.00	-26.08	43.47	6.00	32.95	34.50	92	111	Peak	VERTICAL
3	7346.39	39.49	54.00	-14.51	29.39	7.64	37.23	34.77	181	171	Average	VERTICAL
4	7352.56	52.08	74.00	-21.92	41.98	7.64	37.23	34.77	181	171	Peak	VERTICAL

Note:

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

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

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

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11b CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 11, 2015		
Test Mode	Mode 6: EUT 1 + Set 8 Sector Antenna / 13 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	4823.91	51.13	74.00	-22.87	46.43	6.29	33.42	35.01	Peak	187	89 HORIZONTAL
2	4823.98	45.04	54.00	-8.96	40.34	6.29	33.42	35.01	Average	187	89 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	4823.99	48.42	54.00	-5.58	43.72	6.29	33.42	35.01	Average	229	44 VERTICAL
2	4824.04	53.14	74.00	-20.86	48.44	6.29	33.42	35.01	Peak	229	44 VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11b CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 11, 2015		
Test Mode	Mode 6: EUT 1 + Set 8 Sector Antenna / 13 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4873.90	51.21	74.00	-22.79	46.35	6.34	33.53	35.01 Peak	200	88	HORIZONTAL
2	4873.95	44.35	54.00	-9.65	39.49	6.34	33.53	35.01 Average	200	88	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4873.96	44.86	54.00	-9.14	40.00	6.34	33.53	35.01 Average	153	54	VERTICAL
2	4874.00	51.15	74.00	-22.85	46.29	6.34	33.53	35.01 Peak	153	54	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11b CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 11, 2015		
Test Mode	Mode 6: EUT 1 + Set 8 Sector Antenna / 13 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4923.93	49.98	74.00	-24.02	44.94	6.40	33.65	35.01	Peak	156	100	HORIZONTAL
2	4923.95	42.29	54.00	-11.71	37.25	6.40	33.65	35.01	Average	156	100	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg	
1	4923.87	51.80	74.00	-22.20	46.76	6.40	33.65	35.01	Peak	206	46	VERTICAL
2	4923.96	45.88	54.00	-8.12	40.84	6.40	33.65	35.01	Average	206	46	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11g CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 11, 2015		
Test Mode	Mode 6: EUT 1 + Set 8 Sector Antenna / 13 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	4824.10	34.09	54.00	-19.91	29.39	6.29	33.42	35.01	Average	150	94	HORIZONTAL
2	4824.24	47.38	74.00	-26.62	42.68	6.29	33.42	35.01	Peak	150	94	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	4823.87	47.37	74.00	-26.63	42.67	6.29	33.42	35.01	Peak	150	119	VERTICAL
2	4824.89	34.22	54.00	-19.78	29.52	6.29	33.42	35.01	Average	150	119	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11g CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 11, 2015		
Test Mode	Mode 6: EUT 1 + Set 8 Sector Antenna / 13 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	4874.62	47.11	74.00	-26.89	42.25	6.34	33.53	35.01	Peak	150	88	HORIZONTAL
2	4874.84	34.10	54.00	-19.90	29.24	6.34	33.53	35.01	Average	150	88	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	4873.38	49.66	74.00	-24.34	44.80	6.34	33.53	35.01	Peak	150	54	VERTICAL
2	4874.99	36.34	54.00	-17.66	31.48	6.34	33.53	35.01	Average	150	54	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11g CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 11, 2015		
Test Mode	Mode 6: EUT 1 + Set 8 Sector Antenna / 13 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	4923.36	47.54	74.00	-26.46	42.50	6.40	33.65	35.01	Peak	150	136	HORIZONTAL
2	4923.90	34.47	54.00	-19.53	29.43	6.40	33.65	35.01	Average	150	136	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	4923.24	34.50	54.00	-19.50	29.46	6.40	33.65	35.01	Average	150	55	VERTICAL
2	4923.88	47.22	74.00	-26.78	42.18	6.40	33.65	35.01	Peak	150	55	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 6: EUT 1 + Set 8 Sector Antenna / 13 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4824.59	46.27	74.00	-27.73	47.97	0.00	32.82	34.52	166	151	Peak	HORIZONTAL
2	4824.59	33.77	74.00	-20.23	35.47	0.00	32.82	34.52	166	151	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4824.29	32.67	74.00	-21.33	28.19	6.18	32.82	34.52	201	154	Average	VERTICAL
2	4824.32	45.87	74.00	-28.13	41.39	6.18	32.82	34.52	201	154	Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 11, 2015		
Test Mode	Mode 6: EUT 1 + Set 8 Sector Antenna / 13 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	4873.34	33.92	54.00	-20.08	29.06	6.34	33.53	35.01	Average	150	124
2	4873.42	47.01	74.00	-26.99	42.15	6.34	33.53	35.01	Peak	150	124

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	4873.28	49.89	74.00	-24.11	45.03	6.34	33.53	35.01	Peak	150	56
2	4874.78	35.88	54.00	-18.12	31.02	6.34	33.53	35.01	Average	150	56

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 11, 2015		
Test Mode	Mode 6: EUT 1 + Set 8 Sector Antenna / 13 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4924.05	47.72	74.00	-26.28	42.68	6.40	33.65	35.01	Peak	150	189	HORIZONTAL
2	4924.52	33.94	54.00	-20.06	28.90	6.40	33.65	35.01	Average	150	189	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4923.93	33.89	54.00	-20.11	28.85	6.40	33.65	35.01	Average	150	160	VERTICAL
2	4924.86	47.18	74.00	-26.82	42.14	6.40	33.65	35.01	Peak	150	160	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 3 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 11, 2015		
Test Mode	Mode 6: EUT 1 + Set 8 Sector Antenna / 13 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	4843.03	47.45	74.00	-26.55	42.69	6.31	33.46	35.01	Peak	150	284	HORIZONTAL
2	4843.28	34.01	54.00	-19.99	29.25	6.31	33.46	35.01	Average	150	284	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	4844.56	47.88	74.00	-26.12	43.12	6.31	33.46	35.01	Peak	150	233	VERTICAL
2	4844.66	33.83	54.00	-20.17	29.07	6.31	33.46	35.01	Average	150	233	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 11, 2015		
Test Mode	Mode 6: EUT 1 + Set 8 Sector Antenna / 13 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	4873.06	47.11	74.00	-26.89	42.25	6.34	33.53	35.01	Peak	150	172 HORIZONTAL
2	4874.56	33.75	54.00	-20.25	28.89	6.34	33.53	35.01	Average	150	172 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	4873.04	33.77	54.00	-20.23	28.91	6.34	33.53	35.01	Average	150	227 VERTICAL
2	4874.02	47.24	74.00	-26.76	42.38	6.34	33.53	35.01	Peak	150	227 VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 11, 2015		
Test Mode	Mode 6: EUT 1 + Set 8 Sector Antenna / 13 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	Remark	cm	deg	Pol/Phase
1	4903.45	47.45	74.00	-26.55	42.47	6.38	33.61	35.01	Peak	150	121	HORIZONTAL
2	4904.57	34.28	54.00	-19.72	29.30	6.38	33.61	35.01	Average	150	121	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	Remark	cm	deg	Pol/Phase
1	4903.00	34.49	54.00	-19.51	29.51	6.38	33.61	35.01	Average	150	145	VERTICAL
2	4903.77	47.84	74.00	-26.16	42.86	6.38	33.61	35.01	Peak	150	145	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	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11b CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 15, 2015		
Test Mode	Mode 7: EUT 1 + Set 11 Omni Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4823.94	51.23	54.00	-2.77	46.53	6.29	33.42	35.01	Average	249	236 HORIZONTAL
2	4824.00	55.02	74.00	-18.98	50.32	6.29	33.42	35.01	Peak	249	236 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4823.96	52.74	54.00	-1.26	46.76	6.29	33.42	33.73	Average	246	192 VERTICAL
2	4823.96	52.64	74.00	-21.36	46.66	6.29	33.42	33.73	Peak	246	192 VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11b CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 15, 2015		
Test Mode	Mode 7: EUT 1 + Set 11 Omni Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	4873.97	54.46	74.00	-19.54	49.60	6.34	33.53	35.01	Peak	242	238 HORIZONTAL
2	4873.99	49.75	54.00	-4.25	44.89	6.34	33.53	35.01	Average	242	238 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	4873.85	56.74	74.00	-17.26	51.88	6.34	33.53	35.01	Peak	244	199 VERTICAL
2	4873.97	52.92	54.00	-1.08	48.06	6.34	33.53	35.01	Average	244	199 VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11b CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 15, 2015		
Test Mode	Mode 7: EUT 1 + Set 11 Omni Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4923.97	49.37	54.00	-4.63	44.33	6.40	33.65	35.01	Average	252	237 HORIZONTAL
2	4924.08	54.39	74.00	-19.61	49.35	6.40	33.65	35.01	Peak	252	237 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4923.93	51.73	54.00	-2.27	46.69	6.40	33.65	35.01	Average	244	225 VERTICAL
2	4923.94	56.38	74.00	-17.62	51.34	6.40	33.65	35.01	Peak	244	225 VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11g CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 15, 2015		
Test Mode	Mode 7: EUT 1 + Set 11 Omni Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4824.64	47.47	74.00	-26.53	42.77	6.29	33.42	35.01	Peak	150	260	HORIZONTAL
2	4825.88	34.60	54.00	-19.40	29.90	6.29	33.42	35.01	Average	150	260	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4824.20	39.00	54.00	-15.00	34.30	6.29	33.42	35.01	Average	251	200	VERTICAL
2	4824.38	51.75	74.00	-22.25	47.05	6.29	33.42	35.01	Peak	251	200	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11g CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 15, 2015		
Test Mode	Mode 7: EUT 1 + Set 11 Omni Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	4875.26	56.16	74.00	-17.84	51.30	6.34	33.53	35.01	Peak	245	238	HORIZONTAL
2	4875.92	41.95	54.00	-12.05	37.09	6.34	33.53	35.01	Average	245	238	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	4875.12	57.40	74.00	-16.60	52.54	6.34	33.53	35.01	Peak	273	198	VERTICAL
2	4875.96	44.26	54.00	-9.74	39.40	6.34	33.53	35.01	Average	273	198	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11g CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 15, 2015		
Test Mode	Mode 7: EUT 1 + Set 11 Omni Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	4925.56	35.24	54.00	-18.76	30.18	6.42	33.65	35.01	Average	246	236	HORIZONTAL
2	4925.80	48.46	74.00	-25.54	43.40	6.42	33.65	35.01	Peak	246	236	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	4924.08	36.14	54.00	-17.86	31.10	6.40	33.65	35.01	Average	282	196	VERTICAL
2	4926.16	48.59	74.00	-25.41	43.53	6.42	33.65	35.01	Peak	282	196	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 15, 2015		
Test Mode	Mode 7: EUT 1 + Set 11 Omni Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4823.84	35.77	54.00	-18.23	31.07	6.29	33.42	35.01	Average	273	237	HORIZONTAL
2	4824.24	47.80	74.00	-26.20	43.10	6.29	33.42	35.01	Peak	273	237	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4824.00	49.78	74.00	-24.22	45.08	6.29	33.42	35.01	Peak	295	226	VERTICAL
2	4824.48	37.28	54.00	-16.72	32.58	6.29	33.42	35.01	Average	295	226	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 15, 2015		
Test Mode	Mode 7: EUT 1 + Set 11 Omni Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	4874.64	53.64	74.00	-20.36	48.78	6.34	33.53	35.01	Peak	251	238	HORIZONTAL
2	4874.96	40.57	54.00	-13.43	35.71	6.34	33.53	35.01	Average	251	238	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	4875.28	57.37	74.00	-16.63	52.51	6.34	33.53	35.01	Peak	298	227	VERTICAL
2	4875.68	42.74	54.00	-11.26	37.88	6.34	33.53	35.01	Average	298	227	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 15, 2015		
Test Mode	Mode 7: EUT 1 + Set 11 Omni Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	4933.76	46.57	74.00	-27.43	41.51	6.42	33.65	35.01	Peak	253	234 HORIZONTAL
2	4941.60	34.64	54.00	-19.36	29.53	6.43	33.69	35.01	Average	253	234 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	4923.92	48.01	74.00	-25.99	42.97	6.40	33.65	35.01	Peak	292	228 VERTICAL
2	4926.72	35.77	54.00	-18.23	30.71	6.42	33.65	35.01	Average	292	228 VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 3 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 15, 2015		
Test Mode	Mode 7: EUT 1 + Set 11 Omni Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	4841.68	34.60	54.00	-19.40	29.84	6.31	33.46	35.01	Average	255	239
2	4856.88	47.12	74.00	-26.88	42.31	6.32	33.50	35.01	Peak	255	239

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	4843.84	48.22	74.00	-25.78	43.46	6.31	33.46	35.01	Peak	250	201
2	4844.32	35.88	54.00	-18.12	31.12	6.31	33.46	35.01	Average	250	201

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 15, 2015		
Test Mode	Mode 7: EUT 1 + Set 11 Omni Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
						dB	dB/m	dB			Pol/Phase
1	4874.48	34.68	54.00	-19.32	29.82	6.34	33.53	35.01	Average	254	251 HORIZONTAL
2	4888.32	47.78	74.00	-26.22	42.86	6.36	33.57	35.01	Peak	254	251 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
						dB	dB/m	dB			Pol/Phase
1	4863.68	47.66	74.00	-26.34	42.83	6.34	33.50	35.01	Peak	249	201 VERTICAL
2	4873.92	35.75	54.00	-18.25	30.89	6.34	33.53	35.01	Average	249	201 VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 15, 2015		
Test Mode	Mode 7: EUT 1 + Set 11 Omni Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	Remark	cm	deg	Pol/Phase
1	4897.20	34.37	54.00	-19.63	29.43	6.38	33.57	35.01	Average	250	259	HORIZONTAL
2	4902.00	47.45	74.00	-26.55	42.47	6.38	33.61	35.01	Peak	250	259	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	Remark	cm	deg	Pol/Phase
1	4892.00	34.42	54.00	-19.58	29.50	6.36	33.57	35.01	Average	247	226	VERTICAL
2	4897.28	48.05	74.00	-25.95	43.11	6.38	33.57	35.01	Peak	247	226	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	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11b CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 8: EUT 2 + Set 12 PIFA Antenna / Chain1:6.25 dBi, Chain2:5.77 dBi, Chain3:6.45 dBi, Chain4:5.60 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4823.94	53.35	74.00	-20.65	48.87	6.18	32.82	34.52	1	189	Peak	HORIZONTAL
2	4823.97	49.52	54.00	-4.48	45.04	6.18	32.82	34.52	1	189	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4823.94	55.68	74.00	-18.32	51.20	6.18	32.82	34.52	323	156	Peak	VERTICAL
2	4823.96	52.88	54.00	-1.12	48.40	6.18	32.82	34.52	323	156	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11b CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 8: EUT 2 + Set 12 PIFA Antenna / Chain1:6.25 dBi, Chain2:5.77 dBi, Chain3:6.45 dBi, Chain4:5.60 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4873.93	50.74	54.00	-3.26	46.28	6.06	32.91	34.51	62	133 Average	HORIZONTAL
2	4874.01	54.26	74.00	-19.74	49.80	6.06	32.91	34.51	62	133 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4873.96	52.85	54.00	-1.15	48.39	6.06	32.91	34.51	325	132 Average	VERTICAL
2	4873.98	56.01	74.00	-17.99	51.55	6.06	32.91	34.51	325	132 Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11b CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 8: EUT 2 + Set 12 PIFA Antenna / Chain1:6.25 dBi, Chain2:5.77 dBi, Chain3:6.45 dBi, Chain4:5.60 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4923.97	52.78	54.00	-1.22	48.34	5.94	32.99	34.49	30	166 Average	HORIZONTAL
2	4924.07	56.64	74.00	-17.36	52.20	5.94	32.99	34.49	30	166 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4923.84	55.99	74.00	-18.01	51.55	5.94	32.99	34.49	329	150 Peak	VERTICAL
2	4923.97	52.57	54.00	-1.43	48.13	5.94	32.99	34.49	329	150 Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11g CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 8: EUT 2 + Set 12 PIFA Antenna / Chain1:6.25 dBi, Chain2:5.77 dBi, Chain3:6.45 dBi, Chain4:5.60 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4825.42	34.72	54.00	-19.28	30.25	6.15	32.84	34.52	12	161	Average	HORIZONTAL
2	4826.08	47.53	74.00	-26.47	43.06	6.15	32.84	34.52	12	161	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4825.65	51.89	74.00	-22.11	47.42	6.15	32.84	34.52	324	150	Peak	VERTICAL
2	4826.06	38.21	54.00	-15.79	33.74	6.15	32.84	34.52	324	150	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11g CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 8: EUT 2 + Set 12 PIFA Antenna / Chain1:6.25 dBi, Chain2:5.77 dBi, Chain3:6.45 dBi, Chain4:5.60 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4875.19	56.95	74.00	-17.05	52.49	6.06	32.91	34.51	297	127	Peak	HORIZONTAL
2	4876.20	43.09	54.00	-10.91	38.63	6.06	32.91	34.51	297	127	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4875.25	59.76	74.00	-14.24	55.30	6.06	32.91	34.51	325	134	Peak	VERTICAL
2	4875.71	45.82	54.00	-8.18	41.36	6.06	32.91	34.51	325	134	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11g CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 8: EUT 2 + Set 12 PIFA Antenna / Chain1:6.25 dBi, Chain2:5.77 dBi, Chain3:6.45 dBi, Chain4:5.60 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4925.94	35.45	54.00	-18.55	31.01	5.94	32.99	34.49	58	148 Average	HORIZONTAL
2	4926.63	48.95	74.00	-25.05	44.51	5.94	32.99	34.49	58	148 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4926.34	49.07	74.00	-24.93	44.63	5.94	32.99	34.49	324	137 Peak	VERTICAL
2	4926.63	36.17	54.00	-17.83	31.73	5.94	32.99	34.49	324	137 Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 8: EUT 2 + Set 12 PIFA Antenna / Chain1:6.25 dBi, Chain2:5.77 dBi, Chain3:6.45 dBi, Chain4:5.60 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4824.17	34.18	54.00	-19.82	29.70	6.18	32.82	34.52	283	144 Average	HORIZONTAL
2	4832.94	47.01	74.00	-26.99	42.54	6.15	32.84	34.52	283	144 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4827.10	33.85	54.00	-20.15	29.38	6.15	32.84	34.52	160	160 Average	VERTICAL
2	4832.68	47.22	74.00	-26.78	42.75	6.15	32.84	34.52	160	160 Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 8: EUT 2 + Set 12 PIFA Antenna / Chain1:6.25 dBi, Chain2:5.77 dBi, Chain3:6.45 dBi, Chain4:5.60 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4876.75	56.44	74.00	-17.56	51.98	6.06	32.91	34.51	299	135	Peak	HORIZONTAL
2	4876.95	42.68	54.00	-11.32	38.21	6.06	32.91	34.50	299	135	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4876.61	60.18	74.00	-13.82	55.72	6.06	32.91	34.51	330	132	Peak	VERTICAL
2	4877.71	45.50	54.00	-8.50	41.03	6.06	32.91	34.50	330	132	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 8: EUT 2 + Set 12 PIFA Antenna / Chain1:6.25 dBi, Chain2:5.77 dBi, Chain3:6.45 dBi, Chain4:5.60 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4923.98	34.92	54.00	-19.08	30.48	5.94	32.99	34.49	59	155 Average	HORIZONTAL
2	4924.36	49.15	74.00	-24.85	44.71	5.94	32.99	34.49	59	155 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4924.09	47.34	74.00	-26.66	42.90	5.94	32.99	34.49	79	141 Peak	VERTICAL
2	4924.92	34.96	54.00	-19.04	30.52	5.94	32.99	34.49	79	141 Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 3 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 8: EUT 2 + Set 12 PIFA Antenna / Chain1:6.25 dBi, Chain2:5.77 dBi, Chain3:6.45 dBi, Chain4:5.60 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4844.12	33.84	54.00	-20.16	29.38	6.12	32.86	34.52	355	148 Average	HORIZONTAL
2	4844.41	47.88	74.00	-26.12	43.42	6.12	32.86	34.52	355	148 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	4843.98	33.49	54.00	-20.51	29.03	6.12	32.86	34.52	150	162 Average	VERTICAL
2	4844.87	47.06	74.00	-26.94	42.60	6.12	32.86	34.52	150	162 Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 8: EUT 2 + Set 12 PIFA Antenna / Chain1:6.25 dBi, Chain2:5.77 dBi, Chain3:6.45 dBi, Chain4:5.60 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4873.77	47.59	74.00	-26.41	43.13	6.06	32.91	34.51	50	188	Peak	HORIZONTAL
2	4874.61	34.29	54.00	-19.71	29.83	6.06	32.91	34.51	50	188	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4874.47	47.11	74.00	-26.89	42.65	6.06	32.91	34.51	195	162	Peak	VERTICAL
2	4874.68	35.47	54.00	-18.53	31.01	6.06	32.91	34.51	195	162	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 8: EUT 2 + Set 12 PIFA Antenna / Chain1:6.25 dBi, Chain2:5.77 dBi, Chain3:6.45 dBi, Chain4:5.60 dBi		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4903.93	34.08	54.00	-19.92	29.63	6.00	32.95	34.50	289	152	Average	HORIZONTAL
2	4904.08	47.96	74.00	-26.04	43.51	6.00	32.95	34.50	289	152	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4903.98	33.44	54.00	-20.56	28.99	6.00	32.95	34.50	52	138	Average	VERTICAL
2	4904.64	47.19	74.00	-26.81	42.74	6.00	32.95	34.50	52	138	Peak	VERTICAL

Note:

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

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

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

4.6. Emissions Measurement

4.6.1. Limit

30dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.6.2. Measuring Instruments and Setting

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

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average
RBW / VBW (30dBc in any 100 kHz bandwidth emission)	100 kHz / 300 kHz for Peak

4.6.3. Test Procedures

For Radiated band edges Measurement:

1. The test procedure is the same as section 4.5.3.

For Radiated Out of Band Emission Measurement:

1. Test was performed in accordance with KDB558074 D01 v03r03 for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 section 10.1 Unwanted Emissions into Non-Restricted Frequency Bands Measurement Procedure.

4.6.4. Test Setup Layout

For Radiated band edges Measurement:

This test setup layout is the same as that shown in section 4.5.4.

For Radiated Out of Band Emission Measurement:

This test setup layout is the same as that shown in section 4.5.4.

4.6.5. Test Deviation

There is no deviation with the original standard.

4.6.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.6.7. Test Result of Band Edge and Fundamental Emissions

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11b CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Dec. 04, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 7.5 dBi		

Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2386.20	61.63	74.00	-12.37	28.94	4.38	28.31	0.00	150	0 Peak	HORIZONTAL
2	2387.20	52.99	54.00	-1.01	20.30	4.38	28.31	0.00	150	0 Average	HORIZONTAL
3	2413.80	117.39			84.62	4.41	28.36	0.00	150	0 Average	HORIZONTAL
4	2414.60	120.97			88.20	4.41	28.36	0.00	150	0 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.80	60.76	74.00	-13.24	28.07	4.38	28.31	0.00	274	0 Peak	HORIZONTAL
2	2389.80	52.16	54.00	-1.84	19.47	4.38	28.31	0.00	274	0 Average	HORIZONTAL
3	2437.80	117.49			84.66	4.44	28.39	0.00	274	0 Average	HORIZONTAL
4	2438.20	121.72			88.89	4.44	28.39	0.00	274	0 Peak	HORIZONTAL
5	2485.80	51.53	54.00	-2.47	18.55	4.50	28.48	0.00	274	0 Average	HORIZONTAL
6	2486.30	60.85	74.00	-13.15	27.87	4.50	28.48	0.00	274	0 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2463.00	115.31			82.40	4.47	28.44	0.00	173	0 Peak	VERTICAL
2	2463.20	111.24			78.33	4.47	28.44	0.00	173	0 Average	VERTICAL
3	2488.80	52.80	54.00	-1.20	19.82	4.50	28.48	0.00	173	0 Average	VERTICAL
4	2493.60	63.34	74.00	-10.66	30.34	4.51	28.49	0.00	173	0 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11g CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Dec. 04, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 7.5 dBi		

Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2390.00	65.69	74.00	-8.31	33.00	4.38	28.31	0.00	211	0 Peak	HORIZONTAL
2	2390.00	52.56	54.00	-1.44	19.87	4.38	28.31	0.00	211	0 Average	HORIZONTAL
3	2409.40	107.73			74.98	4.40	28.35	0.00	211	0 Average	HORIZONTAL
4	2409.60	117.68			84.93	4.40	28.35	0.00	211	0 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2385.80	61.10	74.00	-12.90	28.41	4.38	28.31	0.00	230	360 Peak	HORIZONTAL
2	2386.60	50.50	54.00	-3.50	17.81	4.38	28.31	0.00	230	360 Average	HORIZONTAL
3	2433.80	114.06			81.23	4.44	28.39	0.00	230	360 Average	HORIZONTAL
4	2434.20	124.03			91.20	4.44	28.39	0.00	230	360 Peak	HORIZONTAL
5	2484.60	65.25	74.00	-8.75	32.27	4.50	28.48	0.00	230	360 Peak	HORIZONTAL
6	2485.80	52.62	54.00	-1.38	19.64	4.50	28.48	0.00	230	360 Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2458.80	117.78			84.89	4.46	28.43	0.00	202	0 Peak	HORIZONTAL
2	2458.80	107.05			74.16	4.46	28.43	0.00	202	0 Average	HORIZONTAL
3	2483.50	52.96	54.00	-1.04	19.98	4.50	28.48	0.00	202	0 Average	HORIZONTAL
4	2490.20	63.40	74.00	-10.60	30.40	4.51	28.49	0.00	202	0 Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Dec. 04, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 7.5 dBi		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.80	65.36	74.00	-8.64	32.67	4.38	28.31	0.00	227	360 Peak	HORIZONTAL
2	2390.00	52.74	54.00	-1.26	20.05	4.38	28.31	0.00	227	360 Average	HORIZONTAL
3	2409.00	117.21			84.46	4.40	28.35	0.00	227	360 Peak	HORIZONTAL
4	2409.80	107.50			74.75	4.40	28.35	0.00	227	360 Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2385.00	49.74	54.00	-4.26	17.05	4.38	28.31	0.00	176	0 Average	HORIZONTAL
2	2385.80	62.73	74.00	-11.27	30.04	4.38	28.31	0.00	176	0 Peak	HORIZONTAL
3	2433.00	121.29			88.46	4.44	28.39	0.00	176	0 Peak	HORIZONTAL
4	2433.00	111.50			78.67	4.44	28.39	0.00	176	0 Average	HORIZONTAL
5	2484.60	52.94	54.00	-1.06	19.96	4.50	28.48	0.00	176	0 Average	HORIZONTAL
6	2485.00	66.03	74.00	-7.97	33.05	4.50	28.48	0.00	176	0 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2464.60	107.36			74.45	4.47	28.44	0.00	179	0 Average	VERTICAL
2	2465.20	117.08			84.17	4.47	28.44	0.00	179	0 Peak	VERTICAL
3	2483.50	52.92	54.00	-1.08	19.94	4.50	28.48	0.00	179	0 Average	VERTICAL
4	2484.00	65.86	74.00	-8.14	32.88	4.50	28.48	0.00	179	0 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Dec. 04, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 7.5 dBi		

Channel 3

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2388.00	71.08	74.00	-2.92	38.39	4.38	28.31	0.00	159	0	Peak	HORIZONTAL
2	2390.00	52.87	54.00	-1.13	20.18	4.38	28.31	0.00	159	0	Average	HORIZONTAL
3	2429.20	110.74			77.93	4.43	28.38	0.00	159	0	Peak	HORIZONTAL
4	2429.60	99.54			66.73	4.43	28.38	0.00	159	0	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2384.80	64.28	74.00	-9.72	31.59	4.38	28.31	0.00	255	0	Peak	HORIZONTAL
2	2390.00	50.33	54.00	-3.67	17.64	4.38	28.31	0.00	255	0	Average	HORIZONTAL
3	2432.80	113.82			80.99	4.44	28.39	0.00	255	0	Peak	HORIZONTAL
4	2434.00	104.71			71.88	4.44	28.39	0.00	255	0	Average	HORIZONTAL
5	2483.50	52.66	54.00	-1.34	19.68	4.50	28.48	0.00	255	0	Average	HORIZONTAL
6	2485.00	69.19	74.00	-4.81	36.21	4.50	28.48	0.00	255	0	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2448.40	111.93			79.06	4.45	28.42	0.00	231	0	Peak	HORIZONTAL
2	2448.80	102.22			69.35	4.45	28.42	0.00	231	0	Average	HORIZONTAL
3	2484.80	72.32	74.00	-1.68	39.34	4.50	28.48	0.00	231	0	Peak	HORIZONTAL
4	2488.00	52.96	54.00	-1.04	19.98	4.50	28.48	0.00	231	0	Average	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

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	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11b CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 17, 2015		
Test Mode	Mode 2: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2386.80	52.78	54.00	-1.22	20.53	5.02	27.23	0.00	150	353 Average	VERTICAL
2	2387.20	61.45	74.00	-12.55	29.20	5.02	27.23	0.00	150	353 Peak	VERTICAL
3 0	2414.00	120.11			87.77	5.04	27.30	0.00	150	353 Peak	VERTICAL
4 0	2414.80	117.36			85.02	5.04	27.30	0.00	150	353 Average	VERTICAL
5	2494.00	52.56	54.00	-1.44	19.92	5.16	27.48	0.00	150	353 Average	VERTICAL
6	2494.00	60.46	74.00	-13.54	27.82	5.16	27.48	0.00	150	353 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2381.80	62.49	74.00	-11.51	30.27	5.01	27.21	0.00	224	345 Peak	HORIZONTAL
2	2387.00	52.08	54.00	-1.92	19.83	5.02	27.23	0.00	224	345 Average	HORIZONTAL
3 0	2435.00	116.45			84.03	5.07	27.35	0.00	224	345 Average	HORIZONTAL
4 0	2435.00	119.90			87.48	5.07	27.35	0.00	224	345 Peak	HORIZONTAL
5	2483.50	60.79	74.00	-13.21	28.17	5.15	27.47	0.00	224	345 Peak	HORIZONTAL
6	2485.80	51.43	54.00	-2.57	18.81	5.15	27.47	0.00	224	345 Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2380.80	49.82	54.00	-4.18	17.60	5.01	27.21	0.00	194	360 Average	HORIZONTAL
2	2380.80	58.96	74.00	-15.04	26.74	5.01	27.21	0.00	194	360 Peak	HORIZONTAL
3 0	2460.80	114.67			82.14	5.11	27.42	0.00	194	360 Average	HORIZONTAL
4 0	2461.20	116.82			84.29	5.11	27.42	0.00	194	360 Peak	HORIZONTAL
5	2486.80	61.51	74.00	-12.49	28.89	5.15	27.47	0.00	194	360 Peak	HORIZONTAL
6	2487.20	52.87	54.00	-1.13	20.25	5.15	27.47	0.00	194	360 Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11g CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 17, 2015 ~ Nov. 18, 2015		
Test Mode	Mode 2: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2390.00	52.87	54.00	-1.13	20.62	5.02	27.23	0.00	150	17 Average	VERTICAL
2	2390.00	65.62	74.00	-8.38	33.37	5.02	27.23	0.00	150	17 Peak	VERTICAL
3 0	2408.80	118.62			86.31	5.03	27.28	0.00	150	17 Peak	VERTICAL
4 0	2409.60	107.77			75.46	5.03	27.28	0.00	150	17 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2383.40	48.49	54.00	-5.51	16.27	5.01	27.21	0.00	187	332 Average	VERTICAL
2	2383.80	62.37	74.00	-11.63	30.12	5.02	27.23	0.00	187	332 Peak	VERTICAL
3 0	2444.20	111.64			79.20	5.08	27.36	0.00	187	332 Average	VERTICAL
4 0	2444.60	121.91			89.47	5.08	27.36	0.00	187	332 Peak	VERTICAL
5	2484.20	52.12	54.00	-1.88	19.50	5.15	27.47	0.00	187	332 Average	VERTICAL
6	2484.60	66.53	74.00	-7.47	33.91	5.15	27.47	0.00	187	332 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1 0	2454.80	106.82			74.32	5.10	27.40	0.00	195	360 Average	HORIZONTAL
2 0	2455.20	117.35			84.85	5.10	27.40	0.00	195	360 Peak	HORIZONTAL
3	2483.50	52.31	54.00	-1.69	19.69	5.15	27.47	0.00	195	360 Average	HORIZONTAL
4	2483.50	64.55	74.00	-9.45	31.93	5.15	27.47	0.00	195	360 Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 2: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2390.00	52.93	54.00	-1.07	20.68	5.02	27.23	0.00	150	360	Average	VERTICAL
2	2390.00	66.32	74.00	-7.68	34.07	5.02	27.23	0.00	150	360	Peak	VERTICAL
3 0	2408.80	115.35			83.04	5.03	27.28	0.00	150	360	Peak	VERTICAL
4 0	2409.20	104.44			72.13	5.03	27.28	0.00	150	360	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2383.40	63.32	74.00	-10.68	31.10	5.01	27.21	0.00	219	340	Peak	VERTICAL
2	2384.20	49.70	54.00	-4.30	17.45	5.02	27.23	0.00	219	340	Average	VERTICAL
3 0	2444.20	111.24			78.80	5.08	27.36	0.00	219	340	Average	VERTICAL
4 0	2444.60	121.96			89.52	5.08	27.36	0.00	219	340	Peak	VERTICAL
5	2483.50	67.70	74.00	-6.30	35.08	5.15	27.47	0.00	219	340	Peak	VERTICAL
6	2484.20	52.91	54.00	-1.09	20.29	5.15	27.47	0.00	219	340	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1 0	2454.00	106.66			74.16	5.10	27.40	0.00	213	357	Average	HORIZONTAL
2 0	2454.40	116.97			84.47	5.10	27.40	0.00	213	357	Peak	HORIZONTAL
3	2483.50	52.22	54.00	-1.78	19.60	5.15	27.47	0.00	213	357	Average	HORIZONTAL
4	2483.50	64.40	74.00	-9.60	31.78	5.15	27.47	0.00	213	357	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 2: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Channel 3

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2390.00	52.29	54.00	-1.71	20.04	5.02	27.23	0.00	215	358 Average	HORIZONTAL
2	2390.00	64.60	74.00	-9.40	32.35	5.02	27.23	0.00	215	358 Peak	HORIZONTAL
3 0	2413.60	101.60			69.26	5.04	27.30	0.00	215	358 Average	HORIZONTAL
4 0	2413.60	112.34			80.00	5.04	27.30	0.00	215	358 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2384.80	61.54	74.00	-12.46	29.29	5.02	27.23	0.00	218	337 Peak	VERTICAL
2	2390.00	48.70	54.00	-5.30	16.45	5.02	27.23	0.00	218	337 Average	VERTICAL
3 0	2443.60	103.10			70.66	5.08	27.36	0.00	218	337 Average	VERTICAL
4 0	2444.20	113.65			81.21	5.08	27.36	0.00	218	337 Peak	VERTICAL
5	2483.50	52.77	54.00	-1.23	20.15	5.15	27.47	0.00	218	337 Average	VERTICAL
6	2483.50	67.10	74.00	-6.90	34.48	5.15	27.47	0.00	218	337 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1 0	2444.20	99.93			67.49	5.08	27.36	0.00	200	0 Average	HORIZONTAL
2 0	2444.20	110.13			77.69	5.08	27.36	0.00	200	0 Peak	HORIZONTAL
3	2483.50	64.25	74.00	-9.75	31.63	5.15	27.47	0.00	200	0 Peak	HORIZONTAL
4	2484.40	52.97	54.00	-1.03	20.35	5.15	27.47	0.00	200	0 Average	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

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	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11b CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 18, 2015 ~ Dec. 01, 2015		
Test Mode	Mode 3: EUT 1 + Set 4 Sector Antenna / 10.5 dBi		

Channel 1

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2389.20	60.95	74.00	-13.05	27.63	5.01	28.31	0.00	180	345	Peak	HORIZONTAL
2	2390.00	48.83	54.00	-5.17	15.51	5.01	28.31	0.00	180	345	Average	HORIZONTAL
3	2411.20	117.51			84.10	5.05	28.36	0.00	180	345	Average	HORIZONTAL
4	2411.20	121.42			88.01	5.05	28.36	0.00	180	345	Peak	HORIZONTAL
5	2490.40	62.81	74.00	-11.19	29.19	5.13	28.49	0.00	180	345	Peak	HORIZONTAL
6	2491.20	52.32	54.00	-1.68	18.70	5.13	28.49	0.00	180	345	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2389.80	61.09	74.00	-12.91	28.40	4.38	28.31	0.00	168	348	Peak	HORIZONTAL
2	2389.80	51.76	54.00	-2.24	19.07	4.38	28.31	0.00	168	348	Average	HORIZONTAL
3	2437.80	119.59			86.76	4.44	28.39	0.00	168	348	Average	HORIZONTAL
4	2438.20	123.53			90.70	4.44	28.39	0.00	168	348	Peak	HORIZONTAL
5	2486.60	61.54	74.00	-12.46	28.56	4.50	28.48	0.00	168	348	Peak	HORIZONTAL
6	2487.00	52.25	54.00	-1.75	19.27	4.50	28.48	0.00	168	348	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2383.40	62.00	74.00	-12.00	28.70	5.00	28.30	0.00	139	354	Peak	HORIZONTAL
2	2384.40	52.59	54.00	-1.41	19.27	5.01	28.31	0.00	139	354	Average	HORIZONTAL
3	2463.60	117.41			83.87	5.10	28.44	0.00	139	354	Average	HORIZONTAL
4	2464.40	121.26			87.72	5.10	28.44	0.00	139	354	Peak	HORIZONTAL
5	2483.60	61.59	74.00	-12.41	27.99	5.12	28.48	0.00	139	354	Peak	HORIZONTAL
6	2483.60	49.59	54.00	-4.41	15.99	5.12	28.48	0.00	139	354	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11g CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 3: EUT 1 + Set 4 Sector Antenna / 10.5 dBi		

Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.60	68.44	74.00	-5.56	35.12	5.01	28.31	0.00	135	355 Peak	HORIZONTAL
2	2390.00	52.74	54.00	-1.26	19.42	5.01	28.31	0.00	135	355 Average	HORIZONTAL
3	2419.20	111.90			78.48	5.05	28.37	0.00	135	355 Average	HORIZONTAL
4	2419.20	121.70			88.28	5.05	28.37	0.00	135	355 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2383.80	64.35	74.00	-9.65	31.03	5.01	28.31	0.00	129	355 Peak	HORIZONTAL
2	2390.00	52.99	54.00	-1.01	19.67	5.01	28.31	0.00	129	355 Average	HORIZONTAL
3	2443.00	116.31			82.82	5.08	28.41	0.00	129	355 Average	HORIZONTAL
4	2443.00	126.68			93.19	5.08	28.41	0.00	129	355 Peak	HORIZONTAL
5	2483.50	52.88	54.00	-1.12	19.28	5.12	28.48	0.00	129	355 Average	HORIZONTAL
6	2485.80	68.69	74.00	-5.31	35.09	5.12	28.48	0.00	129	355 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2458.80	120.31			86.79	5.09	28.43	0.00	156	343 Peak	VERTICAL
2	2459.60	109.95			76.43	5.09	28.43	0.00	156	343 Average	VERTICAL
3	2483.50	52.99	54.00	-1.01	19.39	5.12	28.48	0.00	156	343 Average	VERTICAL
4	2487.20	65.16	74.00	-8.84	31.56	5.12	28.48	0.00	156	343 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 3: EUT 1 + Set 4 Sector Antenna / 10.5 dBi		

Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	2388.40	52.65	54.00	-1.35	19.33	5.01	28.31	0.00	149	4 Average	VERTICAL
2	2388.80	67.21	74.00	-6.79	33.89	5.01	28.31	0.00	149	4 Peak	VERTICAL
3	2406.40	120.87			87.48	5.04	28.35	0.00	149	4 Peak	VERTICAL
4	2406.80	109.77			76.38	5.04	28.35	0.00	149	4 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	2389.80	63.20	74.00	-10.80	29.88	5.01	28.31	0.00	128	352 Peak	HORIZONTAL
2	2390.00	51.75	54.00	-2.25	18.43	5.01	28.31	0.00	128	352 Average	HORIZONTAL
3	2442.20	115.92			82.43	5.08	28.41	0.00	128	352 Average	HORIZONTAL
4	2442.20	126.41			92.92	5.08	28.41	0.00	128	352 Peak	HORIZONTAL
5	2483.50	52.61	54.00	-1.39	19.01	5.12	28.48	0.00	128	352 Average	HORIZONTAL
6	2483.50	63.98	74.00	-10.02	30.38	5.12	28.48	0.00	128	352 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	2465.20	106.57			73.03	5.10	28.44	0.00	123	341 Average	HORIZONTAL
2	2466.00	117.13			83.59	5.10	28.44	0.00	123	341 Peak	HORIZONTAL
3	2483.50	51.83	54.00	-2.17	18.23	5.12	28.48	0.00	123	341 Average	HORIZONTAL
4	2484.80	64.40	74.00	-9.60	30.80	5.12	28.48	0.00	123	341 Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 3: EUT 1 + Set 4 Sector Antenna / 10.5 dBi		

Channel 3

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2388.80	52.97	54.00	-1.03	19.65	5.01	28.31	0.00	140	356 Average	HORIZONTAL
2	2388.80	66.10	74.00	-7.90	32.78	5.01	28.31	0.00	140	356 Peak	HORIZONTAL
3	2428.40	103.16			69.72	5.06	28.38	0.00	140	356 Average	HORIZONTAL
4	2429.60	113.32			79.88	5.06	28.38	0.00	140	356 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.00	60.84	74.00	-13.16	27.52	5.01	28.31	0.00	128	359 Peak	HORIZONTAL
2	2390.00	48.99	54.00	-5.01	15.67	5.01	28.31	0.00	128	359 Average	HORIZONTAL
3	2443.80	106.94			73.45	5.08	28.41	0.00	128	359 Average	HORIZONTAL
4	2444.20	117.35			83.86	5.08	28.41	0.00	128	359 Peak	HORIZONTAL
5	2483.50	52.89	54.00	-1.11	19.29	5.12	28.48	0.00	128	359 Average	HORIZONTAL
6	2483.80	66.65	74.00	-7.35	33.05	5.12	28.48	0.00	128	359 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2449.20	112.64			79.14	5.08	28.42	0.00	217	343 Peak	VERTICAL
2	2449.60	103.37			69.87	5.08	28.42	0.00	217	343 Average	VERTICAL
3	2483.50	52.19	54.00	-1.81	18.59	5.12	28.48	0.00	217	343 Average	VERTICAL
4	2486.00	72.98	74.00	-1.02	39.38	5.12	28.48	0.00	217	343 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

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	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11b CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 4: EUT 1 + Set 5 Panel Antenna / 7 dBi		

Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2332.80	51.91	54.00	-2.09	20.03	3.79	28.09	0.00	10	159 Average	VERTICAL
2	2377.60	62.10	74.00	-11.90	30.23	3.84	28.03	0.00	10	159 Peak	VERTICAL
3	2410.80	119.89			88.03	3.86	28.00	0.00	10	159 Peak	VERTICAL
4	2411.20	115.81			83.95	3.87	27.99	0.00	10	159 Average	VERTICAL
5	2491.60	52.95	54.00	-1.05	21.12	3.92	27.91	0.00	10	159 Average	VERTICAL
6	2492.80	62.12	74.00	-11.88	30.29	3.92	27.91	0.00	10	159 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2385.00	60.80	74.00	-13.20	28.93	3.85	28.02	0.00	353	183 Peak	VERTICAL
2	2387.00	51.73	54.00	-2.27	19.86	3.85	28.02	0.00	353	183 Average	VERTICAL
3	2435.00	119.68			87.83	3.88	27.97	0.00	353	183 Peak	VERTICAL
4	2435.00	116.08			84.23	3.88	27.97	0.00	353	183 Average	VERTICAL
5	2484.20	52.11	54.00	-1.89	20.27	3.92	27.92	0.00	353	183 Average	VERTICAL
6	2487.80	65.47	74.00	-8.53	33.63	3.92	27.92	0.00	353	183 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2463.20	119.43			87.59	3.90	27.94	0.00	340	183 Peak	VERTICAL
2	2463.20	115.94			84.10	3.90	27.94	0.00	340	183 Average	VERTICAL
3	2483.50	52.63	54.00	-1.37	20.79	3.92	27.92	0.00	340	183 Average	VERTICAL
4	2486.00	62.63	74.00	-11.37	30.79	3.92	27.92	0.00	340	183 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11g CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 4: EUT 1 + Set 5 Panel Antenna / 7 dBi		

Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2390.00	65.77	74.00	-8.23	33.90	3.85	28.02	0.00	27	167 Peak	VERTICAL
2	2390.00	52.97	54.00	-1.03	21.10	3.85	28.02	0.00	27	167 Average	VERTICAL
3	2410.00	116.90			85.04	3.86	28.00	0.00	27	167 Peak	VERTICAL
4	2410.80	106.44			74.58	3.86	28.00	0.00	27	167 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2381.40	60.89	74.00	-13.11	29.02	3.84	28.03	0.00	29	183 Peak	VERTICAL
2	2383.40	49.36	54.00	-4.64	17.49	3.84	28.03	0.00	29	183 Average	VERTICAL
3	2433.80	124.41			92.56	3.88	27.97	0.00	29	183 Peak	VERTICAL
4	2434.60	113.79			81.94	3.88	27.97	0.00	29	183 Average	VERTICAL
5	2483.50	52.63	54.00	-1.37	20.79	3.92	27.92	0.00	29	183 Average	VERTICAL
6	2487.80	64.72	74.00	-9.28	32.88	3.92	27.92	0.00	29	183 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2464.40	105.31			73.47	3.90	27.94	0.00	347	171 Average	VERTICAL
2	2464.80	117.51			85.67	3.90	27.94	0.00	347	171 Peak	VERTICAL
3	2483.50	52.75	54.00	-1.25	20.91	3.92	27.92	0.00	347	171 Average	VERTICAL
4	2484.40	67.91	74.00	-6.09	36.07	3.92	27.92	0.00	347	171 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 4: EUT 1 + Set 5 Panel Antenna / 7 dBi		

Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2390.00	66.38	74.00	-7.62	34.51	3.85	28.02	0.00	1	178 Peak	VERTICAL
2	2390.00	52.85	54.00	-1.15	20.98	3.85	28.02	0.00	1	178 Average	VERTICAL
3	2404.00	104.92			73.05	3.86	28.01	0.00	1	178 Average	VERTICAL
4	2404.40	115.00			83.14	3.86	28.00	0.00	1	178 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2386.20	63.34	74.00	-10.66	31.47	3.85	28.02	0.00	29	168 Peak	VERTICAL
2	2389.80	49.11	54.00	-4.89	17.24	3.85	28.02	0.00	29	168 Average	VERTICAL
3	2434.60	115.05			83.20	3.88	27.97	0.00	29	168 Average	VERTICAL
4	2435.00	123.94			92.09	3.88	27.97	0.00	29	168 Peak	VERTICAL
5	2483.50	64.66	74.00	-9.34	32.82	3.92	27.92	0.00	29	168 Peak	VERTICAL
6	2483.54	52.54	54.00	-1.46	20.70	3.92	27.92	0.00	29	168 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2458.80	116.85			85.00	3.90	27.95	0.00	26	150 Peak	VERTICAL
2	2459.20	106.48			74.63	3.90	27.95	0.00	26	150 Average	VERTICAL
3	2483.50	63.13	74.00	-10.87	31.29	3.92	27.92	0.00	26	150 Peak	VERTICAL
4	2483.50	52.88	54.00	-1.12	21.04	3.92	27.92	0.00	26	150 Average	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 4: EUT 1 + Set 5 Panel Antenna / 7 dBi		

Channel 3

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2390.00	63.76	74.00	-10.24	31.89	3.85	28.02	0.00	4	172 Peak	VERTICAL
2	2390.00	52.92	54.00	-1.08	21.05	3.85	28.02	0.00	4	172 Average	VERTICAL
3	2432.80	101.45			69.60	3.88	27.97	0.00	4	172 Average	VERTICAL
4	2433.20	113.14			81.29	3.88	27.97	0.00	4	172 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2389.00	65.92	74.00	-8.08	34.05	3.85	28.02	0.00	5	164 Peak	VERTICAL
2	2389.40	52.97	54.00	-1.03	21.10	3.85	28.02	0.00	5	164 Average	VERTICAL
3	2427.80	106.82			74.96	3.88	27.98	0.00	5	164 Average	VERTICAL
4	2428.20	117.32			85.46	3.88	27.98	0.00	5	164 Peak	VERTICAL
5	2486.20	66.63	74.00	-7.37	34.79	3.92	27.92	0.00	5	164 Peak	VERTICAL
6	2486.20	52.92	54.00	-1.08	21.08	3.92	27.92	0.00	5	164 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2442.40	101.06			69.21	3.89	27.96	0.00	7	170 Average	VERTICAL
2	2443.20	111.11			79.26	3.89	27.96	0.00	7	170 Peak	VERTICAL
3	2483.50	64.38	74.00	-9.62	32.54	3.92	27.92	0.00	7	170 Peak	VERTICAL
4	2483.50	52.99	54.00	-1.01	21.15	3.92	27.92	0.00	7	170 Average	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

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	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11b CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 5: EUT 1 + Set 6 Sector Antenna / 5 dBi		

Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2385.20	52.48	54.00	-1.52	20.23	5.02	27.23	0.00	216	22 Average	VERTICAL
2	2386.00	60.59	74.00	-13.41	28.34	5.02	27.23	0.00	216	22 Peak	VERTICAL
3 0	2412.80	115.25			82.91	5.04	27.30	0.00	216	22 Average	VERTICAL
4 0	2412.80	119.37			87.03	5.04	27.30	0.00	216	22 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.80	49.10	54.00	-4.90	16.85	5.02	27.23	0.00	222	26 Average	VERTICAL
2	2390.00	58.78	74.00	-15.22	26.53	5.02	27.23	0.00	222	26 Peak	VERTICAL
3 0	2438.60	119.91			87.49	5.07	27.35	0.00	222	26 Peak	VERTICAL
4 0	2439.00	116.32			83.90	5.07	27.35	0.00	222	26 Average	VERTICAL
5	2516.20	49.93	54.00	-4.07	17.21	5.19	27.53	0.00	222	26 Average	VERTICAL
6	2517.80	59.83	74.00	-14.17	27.11	5.19	27.53	0.00	222	26 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1 0	2464.80	112.40			79.87	5.11	27.42	0.00	212	338 Average	VERTICAL
2 0	2464.80	116.32			83.79	5.11	27.42	0.00	212	338 Peak	VERTICAL
3	2486.40	52.12	54.00	-1.88	19.50	5.15	27.47	0.00	212	338 Average	VERTICAL
4	2492.00	63.08	74.00	-10.92	30.44	5.16	27.48	0.00	212	338 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11g CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 5: EUT 1 + Set 6 Sector Antenna / 5 dBi		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2390.00	65.42	74.00	-8.58	33.55	3.85	28.02	0.00	7	213	Peak	VERTICAL
2	2390.00	52.80	54.00	-1.20	20.93	3.85	28.02	0.00	7	213	Average	VERTICAL
3	2418.95	117.85			85.99	3.87	27.99	0.00	7	213	Peak	VERTICAL
4	2419.09	107.94			76.08	3.87	27.99	0.00	7	213	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2363.77	48.50	54.00	-5.50	16.63	3.82	28.05	0.00	10	230	Average	VERTICAL
2	2383.45	60.61	74.00	-13.39	28.74	3.84	28.03	0.00	10	230	Peak	VERTICAL
3	2443.66	121.52			89.67	3.89	27.96	0.00	10	230	Peak	VERTICAL
4	2443.95	111.49			79.64	3.89	27.96	0.00	10	230	Average	VERTICAL
5	2483.50	52.64	54.00	-1.36	20.80	3.92	27.92	0.00	10	230	Average	VERTICAL
6	2485.05	65.87	74.00	-8.13	34.03	3.92	27.92	0.00	10	230	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2463.88	116.46			84.62	3.90	27.94	0.00	356	225	Peak	HORIZONTAL
2	2464.17	104.30			72.46	3.90	27.94	0.00	356	225	Average	HORIZONTAL
3	2483.50	52.79	54.00	-1.21	20.95	3.92	27.92	0.00	356	225	Average	HORIZONTAL
4	2483.85	67.75	74.00	-6.25	35.91	3.92	27.92	0.00	356	225	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 5: EUT 1 + Set 6 Sector Antenna / 5 dBi		

Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2389.57	66.26	74.00	-7.74	34.39	3.85	28.02	0.00	9	214 Peak	VERTICAL
2	2390.00	52.96	54.00	-1.04	21.09	3.85	28.02	0.00	9	214 Average	VERTICAL
3	2418.22	119.13			87.27	3.87	27.99	0.00	9	214 Peak	VERTICAL
4	2419.24	109.01			77.15	3.87	27.99	0.00	9	214 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2384.32	48.69	54.00	-5.31	16.82	3.85	28.02	0.00	12	212 Average	VERTICAL
2	2384.61	61.01	74.00	-12.99	29.14	3.85	28.02	0.00	12	212 Peak	VERTICAL
3	2443.66	112.11			80.26	3.89	27.96	0.00	12	212 Average	VERTICAL
4	2443.95	122.00			90.15	3.89	27.96	0.00	12	212 Peak	VERTICAL
5	2483.50	52.77	54.00	-1.23	20.93	3.92	27.92	0.00	12	212 Average	VERTICAL
6	2484.66	65.99	74.00	-8.01	34.15	3.92	27.92	0.00	12	212 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2464.03	118.21			86.37	3.90	27.94	0.00	355	219 Peak	HORIZONTAL
2	2464.75	105.26			73.42	3.90	27.94	0.00	355	219 Average	HORIZONTAL
3	2483.50	52.88	54.00	-1.12	21.04	3.92	27.92	0.00	355	219 Average	HORIZONTAL
4	2484.72	67.65	74.00	-6.35	35.81	3.92	27.92	0.00	355	219 Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 5: EUT 1 + Set 6 Sector Antenna / 5 dBi		

Channel 3

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2389.00	52.58	54.00	-1.42	20.71	3.85	28.02	0.00	6	213	Average	VERTICAL
2	2389.29	64.59	74.00	-9.41	32.72	3.85	28.02	0.00	6	213	Peak	VERTICAL
3	2428.08	110.00			78.14	3.88	27.98	0.00	6	213	Peak	VERTICAL
4	2428.37	100.41			68.55	3.88	27.98	0.00	6	213	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2384.79	50.25	54.00	-3.75	18.38	3.85	28.02	0.00	11	191	Average	VERTICAL
2	2385.19	67.87	74.00	-6.13	36.00	3.85	28.02	0.00	11	191	Peak	VERTICAL
3	2443.66	102.74			70.89	3.89	27.96	0.00	11	191	Average	VERTICAL
4	2444.53	114.60			82.75	3.89	27.96	0.00	11	191	Peak	VERTICAL
5	2483.50	52.95	54.00	-1.05	21.11	3.92	27.92	0.00	11	191	Average	VERTICAL
6	2487.26	69.16	74.00	-4.84	37.32	3.92	27.92	0.00	11	191	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2458.37	101.88			70.03	3.90	27.95	0.00	8	205	Average	VERTICAL
2	2459.81	111.78			79.93	3.90	27.95	0.00	8	205	Peak	VERTICAL
3	2484.13	52.51	54.00	-1.49	20.67	3.92	27.92	0.00	8	205	Average	VERTICAL
4	2484.71	66.31	74.00	-7.69	34.47	3.92	27.92	0.00	8	205	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

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	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11b CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 10, 2015		
Test Mode	Mode 6: EUT 1 + Set 8 Sector Antenna / 13 dBi		

Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg
			dBuV/m	dB	dBuV	dB	dB/m	dB			Pol/Phase
1	2332.40	52.69	54.00	-1.31	20.29	4.31	28.09	0.00	Average	148	360 VERTICAL
2	2362.80	61.76	74.00	-12.24	29.28	4.33	28.15	0.00	Peak	148	360 VERTICAL
3	2410.80	120.99			88.37	4.38	28.24	0.00	Average	148	360 VERTICAL
4	2411.20	123.20			90.58	4.38	28.24	0.00	Peak	148	360 VERTICAL
5	2490.40	51.11	54.00	-2.89	18.20	4.51	28.40	0.00	Average	148	360 VERTICAL
6	2495.20	61.36	74.00	-12.64	28.43	4.53	28.40	0.00	Peak	148	360 VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg
			dBuV/m	dB	dBuV	dB	dB/m	dB			Pol/Phase
1	2356.20	52.52	54.00	-1.48	20.04	4.33	28.15	0.00	Average	162	360 VERTICAL
2	2356.20	60.91	74.00	-13.09	28.43	4.33	28.15	0.00	Peak	162	360 VERTICAL
3	2436.20	119.89			87.19	4.42	28.28	0.00	Average	162	360 VERTICAL
4	2436.20	123.65			90.95	4.42	28.28	0.00	Peak	162	360 VERTICAL
5	2483.80	51.70	54.00	-2.30	18.82	4.51	28.37	0.00	Average	162	360 VERTICAL
6	2484.30	61.45	74.00	-12.55	28.57	4.51	28.37	0.00	Peak	162	360 VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg
			dBuV/m	dB	dBuV	dB	dB/m	dB			Pol/Phase
1	2381.20	52.29	54.00	-1.71	19.77	4.34	28.18	0.00	Average	170	9 VERTICAL
2	2383.60	61.97	74.00	-12.03	29.45	4.34	28.18	0.00	Peak	170	9 VERTICAL
3	2460.00	119.07			86.26	4.47	28.34	0.00	Average	170	9 VERTICAL
4	2461.20	122.45			89.64	4.47	28.34	0.00	Peak	170	9 VERTICAL
5	2495.90	49.86	54.00	-4.14	16.93	4.53	28.40	0.00	Average	170	9 VERTICAL
6	2495.90	60.52	74.00	-13.48	27.59	4.53	28.40	0.00	Peak	170	9 VERTICAL

Item 3, 4 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11g CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 10, 2015 ~ Nov. 11, 2015		
Test Mode	Mode 6: EUT 1 + Set 8 Sector Antenna / 13 dBi		

Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	Pol/Phase
1	2389.20	52.71	54.00	-1.29	20.15	4.35	28.21	0.00	133	360	VERTICAL
2	2390.00	65.54	74.00	-8.46	32.98	4.35	28.21	0.00	133	360	VERTICAL
3	2405.80	120.46			87.86	4.36	28.24	0.00	133	360	VERTICAL
4	2406.80	109.96			77.36	4.36	28.24	0.00	133	360	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	Pol/Phase
1	2361.40	51.82	54.00	-2.18	19.34	4.33	28.15	0.00	196	2	HORIZONTAL
2	2362.20	63.31	74.00	-10.69	30.83	4.33	28.15	0.00	196	2	HORIZONTAL
3	2440.20	114.83			82.10	4.42	28.31	0.00	196	2	HORIZONTAL
4	2440.60	126.70			93.97	4.42	28.31	0.00	196	2	HORIZONTAL
5	2483.50	52.85	54.00	-1.15	19.97	4.51	28.37	0.00	196	2	HORIZONTAL
6	2483.50	66.11	74.00	-7.89	33.23	4.51	28.37	0.00	196	2	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	Pol/Phase
1	2464.80	109.79			76.98	4.47	28.34	0.00	209	5	HORIZONTAL
2	2464.80	120.61			87.80	4.47	28.34	0.00	209	5	HORIZONTAL
3	2483.50	52.74	54.00	-1.26	19.86	4.51	28.37	0.00	209	5	HORIZONTAL
4	2485.20	68.67	74.00	-5.33	35.79	4.51	28.37	0.00	209	5	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 11, 2015 ~ Nov. 21, 2015		
Test Mode	Mode 6: EUT 1 + Set 8 Sector Antenna / 13 dBi		

Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2389.57	63.38	74.00	-10.62	31.51	3.85	28.02	0.00	356	187 Peak	VERTICAL
2	2389.90	52.84	54.00	-1.16	20.97	3.85	28.02	0.00	356	187 Average	VERTICAL
3	2414.75	122.06			90.20	3.87	27.99	0.00	356	187 Peak	VERTICAL
4	2414.89	111.30			79.44	3.87	27.99	0.00	356	187 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2387.80	63.90	74.00	-10.10	31.34	4.35	28.21	0.00 Peak	170	5	VERTICAL
2	2388.20	52.89	54.00	-1.11	20.33	4.35	28.21	0.00 Average	170	5	VERTICAL
3	2433.40	126.06			93.37	4.41	28.28	0.00 Peak	170	5	VERTICAL
4	2433.80	115.12			82.43	4.41	28.28	0.00 Average	170	5	VERTICAL
5	2483.50	51.92	54.00	-2.08	19.04	4.51	28.37	0.00 Average	170	5	VERTICAL
6	2483.50	64.38	74.00	-9.62	31.50	4.51	28.37	0.00 Peak	170	5	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2464.60	119.21			86.40	4.47	28.34	0.00 Peak	211	6	HORIZONTAL
2	2464.80	108.18			75.37	4.47	28.34	0.00 Average	211	6	HORIZONTAL
3	2483.50	68.79	74.00	-5.21	35.91	4.51	28.37	0.00 Peak	211	6	HORIZONTAL
4	2484.00	52.97	54.00	-1.03	20.09	4.51	28.37	0.00 Average	211	6	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 11, 2015		
Test Mode	Mode 6: EUT 1 + Set 8 Sector Antenna / 13 dBi		

Channel 3

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2385.20	52.72	54.00	-1.28	20.20	4.34	28.18	0.00	Average	173	4 HORIZONTAL
2	2387.60	72.57	74.00	-1.43	40.01	4.35	28.21	0.00	Peak	173	4 HORIZONTAL
3	2425.20	104.81			72.14	4.39	28.28	0.00	Average	173	4 HORIZONTAL
4	2425.60	113.96			81.29	4.39	28.28	0.00	Peak	173	4 HORIZONTAL
5	2486.00	66.77	74.00	-7.23	33.89	4.51	28.37	0.00	Peak	173	4 HORIZONTAL
6	2496.00	47.87	54.00	-6.13	14.94	4.53	28.40	0.00	Average	173	4 HORIZONTAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2383.80	72.99	74.00	-1.01	40.47	4.34	28.18	0.00	Peak	166	2 VERTICAL
2	2390.00	52.76	54.00	-1.24	20.20	4.35	28.21	0.00	Average	166	2 VERTICAL
3	2433.00	118.33			85.64	4.41	28.28	0.00	Peak	166	2 VERTICAL
4	2433.40	107.89			75.20	4.41	28.28	0.00	Average	166	2 VERTICAL
5	2483.50	50.55	54.00	-3.45	17.67	4.51	28.37	0.00	Average	166	2 VERTICAL
6	2485.00	72.47	74.00	-1.53	39.59	4.51	28.37	0.00	Peak	166	2 VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2455.60	113.46			80.67	4.45	28.34	0.00	Peak	214	5 HORIZONTAL
2	2456.00	102.90			70.11	4.45	28.34	0.00	Average	214	5 HORIZONTAL
3	2483.50	51.41	54.00	-2.59	18.53	4.51	28.37	0.00	Average	214	5 HORIZONTAL
4	2493.60	72.96	74.00	-1.04	40.03	4.53	28.40	0.00	Peak	214	5 HORIZONTAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

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	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11b CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 15, 2015		
Test Mode	Mode 7: EUT 1 + Set 11 Omni Antenna / 5.5 dBi		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2363.20	49.17	54.00	-4.83	16.69	4.33	28.15	0.00	Average	180	93	VERTICAL
2	2365.60	58.31	74.00	-15.69	25.83	4.33	28.15	0.00	Peak	180	93	VERTICAL
3	2411.20	118.17			85.55	4.38	28.24	0.00	Average	180	93	VERTICAL
4	2411.20	120.31			87.69	4.38	28.24	0.00	Peak	180	93	VERTICAL
5	2490.40	49.33	54.00	-4.67	16.42	4.51	28.40	0.00	Average	180	93	VERTICAL
6	2491.60	58.94	74.00	-15.06	26.01	4.53	28.40	0.00	Peak	180	93	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2359.00	48.32	54.00	-5.68	15.84	4.33	28.15	0.00	Average	145	266	VERTICAL
2	2387.80	58.43	74.00	-15.57	25.87	4.35	28.21	0.00	Peak	145	266	VERTICAL
3	2438.60	114.65			81.92	4.42	28.31	0.00	Average	145	266	VERTICAL
4	2439.80	118.33			85.60	4.42	28.31	0.00	Peak	145	266	VERTICAL
5	2483.50	58.80	74.00	-15.20	25.92	4.51	28.37	0.00	Peak	145	266	VERTICAL
6	2484.30	48.04	54.00	-5.96	15.16	4.51	28.37	0.00	Average	145	266	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2461.20	106.77			73.96	4.47	28.34	0.00	Average	261	312	VERTICAL
2	2461.20	110.31			77.50	4.47	28.34	0.00	Peak	261	312	VERTICAL
3	2487.20	60.91	74.00	-13.09	28.03	4.51	28.37	0.00	Peak	261	312	VERTICAL
4	2487.60	52.73	54.00	-1.27	19.82	4.51	28.40	0.00	Average	261	312	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11g CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 15, 2015		
Test Mode	Mode 7: EUT 1 + Set 11 Omni Antenna / 5.5 dBi		

Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	2382.60	65.68	74.00	-8.32	33.16	4.34	28.18	0.00	Peak	218	101
2	2390.00	52.96	54.00	-1.04	20.40	4.35	28.21	0.00	Average	218	101
3	2404.60	119.53			86.93	4.36	28.24	0.00	Peak	218	101
4	2404.80	110.28			77.68	4.36	28.24	0.00	Average	218	101

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	2389.00	65.18	74.00	-8.82	32.62	4.35	28.21	0.00	Peak	221	102
2	2389.40	52.75	54.00	-1.25	20.19	4.35	28.21	0.00	Average	221	102
3	2429.80	114.34			81.65	4.41	28.28	0.00	Average	221	102
4	2430.60	124.16			91.47	4.41	28.28	0.00	Peak	221	102
5	2489.80	51.95	54.00	-2.05	19.04	4.51	28.40	0.00	Average	221	102
6	2489.80	67.27	74.00	-6.73	34.36	4.51	28.40	0.00	Peak	221	102

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	2458.80	104.21			71.40	4.47	28.34	0.00	Peak	273	168
2	2458.80	117.08			84.27	4.47	28.34	0.00	Peak	273	168
3	2483.50	52.91	54.00	-1.09	20.03	4.51	28.37	0.00	Average	273	168
4	2483.50	66.05	74.00	-7.95	33.17	4.51	28.37	0.00	Peak	273	168

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 15, 2015		
Test Mode	Mode 7: EUT 1 + Set 11 Omni Antenna / 5.5 dBi		

Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	Pol/Phase
1	2390.00	52.78	54.00	-1.22	20.22	4.35	28.21	0.00	217	111	VERTICAL
2	2390.00	64.80	74.00	-9.20	32.24	4.35	28.21	0.00	217	111	VERTICAL
3	2404.00	108.19			75.59	4.36	28.24	0.00	217	111	VERTICAL
4	2404.60	118.17			85.57	4.36	28.24	0.00	217	111	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	Pol/Phase
1	2388.60	52.68	54.00	-1.32	20.12	4.35	28.21	0.00	227	109	VERTICAL
2	2389.00	65.95	74.00	-8.05	33.39	4.35	28.21	0.00	227	109	VERTICAL
3	2429.00	113.36			80.67	4.41	28.28	0.00	227	109	VERTICAL
4	2430.20	124.29			91.60	4.41	28.28	0.00	227	109	VERTICAL
5	2489.40	52.25	54.00	-1.75	19.34	4.51	28.40	0.00	227	109	VERTICAL
6	2489.80	67.30	74.00	-6.70	34.39	4.51	28.40	0.00	227	109	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	Pol/Phase
1	2454.00	104.92			72.13	4.45	28.34	0.00	220	116	VERTICAL
2	2454.40	115.94			83.15	4.45	28.34	0.00	220	116	VERTICAL
3	2483.50	52.78	54.00	-1.22	19.90	4.51	28.37	0.00	220	116	VERTICAL
4	2483.80	64.45	74.00	-9.55	31.57	4.51	28.37	0.00	220	116	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 15, 2015		
Test Mode	Mode 7: EUT 1 + Set 11 Omni Antenna / 5.5 dBi		

Channel 3

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	52.96	54.00	-1.04	20.40	4.35	28.21	0.00	Average	221	117	VERTICAL
2	2390.00	64.54	74.00	-9.46	31.98	4.35	28.21	0.00	Peak	221	117	VERTICAL
3	2413.60	102.88			70.26	4.38	28.24	0.00	Average	221	117	VERTICAL
4	2414.40	113.46			80.84	4.38	28.24	0.00	Peak	221	117	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2389.00	65.20	74.00	-8.80	32.64	4.35	28.21	0.00	Peak	230	116	VERTICAL
2	2389.80	52.53	54.00	-1.47	19.97	4.35	28.21	0.00	Average	230	116	VERTICAL
3	2428.20	114.99			82.30	4.41	28.28	0.00	Peak	230	116	VERTICAL
4	2429.00	105.42			72.73	4.41	28.28	0.00	Average	230	116	VERTICAL
5	2487.00	50.18	54.00	-3.82	17.30	4.51	28.37	0.00	Average	230	116	VERTICAL
6	2489.00	62.66	74.00	-11.34	29.75	4.51	28.40	0.00	Peak	230	116	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2444.40	100.59			67.84	4.44	28.31	0.00	Average	221	106	VERTICAL
2	2444.40	111.16			78.41	4.44	28.31	0.00	Peak	221	106	VERTICAL
3	2484.40	52.59	54.00	-1.41	19.71	4.51	28.37	0.00	Average	221	106	VERTICAL
4	2487.20	71.72	74.00	-2.28	38.84	4.51	28.37	0.00	Peak	221	106	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

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	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11b CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 8: EUT 2 + Set 12 PIFA Antenna / Chain1:6.25 dBi, Chain2:5.77 dBi, Chain3:6.45 dBi, Chain4:5.60 dBi		

Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2385.37	52.97	54.00	-1.03	21.10	3.85	28.02	0.00	18	188 Average	HORIZONTAL
2	2388.55	64.76	74.00	-9.24	32.89	3.85	28.02	0.00	18	188 Peak	HORIZONTAL
3	2411.13	120.03			88.17	3.86	28.00	0.00	18	188 Peak	HORIZONTAL
4	2411.13	117.15			85.29	3.86	28.00	0.00	18	188 Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2390.00	61.69	74.00	-12.31	29.82	3.85	28.02	0.00	355	264 Peak	VERTICAL
2	2390.00	52.99	54.00	-1.01	21.12	3.85	28.02	0.00	355	264 Average	VERTICAL
3	2437.87	119.97			88.12	3.88	27.97	0.00	355	264 Average	VERTICAL
4	2438.45	123.05			91.20	3.88	27.97	0.00	355	264 Peak	VERTICAL
5	2485.53	62.53	74.00	-11.47	30.69	3.92	27.92	0.00	355	264 Peak	VERTICAL
6	2485.53	52.55	54.00	-1.45	20.71	3.92	27.92	0.00	355	264 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2463.16	121.35			89.51	3.90	27.94	0.00	350	240 Peak	VERTICAL
2	2463.74	118.05			86.21	3.90	27.94	0.00	350	240 Average	VERTICAL
3	2485.82	63.06	74.00	-10.94	31.22	3.92	27.92	0.00	350	240 Peak	VERTICAL
4	2487.84	52.95	54.00	-1.05	21.11	3.92	27.92	0.00	350	240 Average	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11g CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 8: EUT 2 + Set 12 PIFA Antenna / Chain1:6.25 dBi, Chain2:5.77 dBi, Chain3:6.45 dBi, Chain4:5.60 dBi		

Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2390.00	66.66	74.00	-7.34	34.79	3.85	28.02	0.00	343	156 Peak	HORIZONTAL
2	2390.00	52.51	54.00	-1.49	20.64	3.85	28.02	0.00	343	156 Average	HORIZONTAL
3	2411.13	105.64			73.78	3.86	28.00	0.00	343	156 Average	HORIZONTAL
4	2411.28	115.86			84.00	3.87	27.99	0.00	343	156 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2357.87	51.91	54.00	-2.09	20.03	3.82	28.06	0.00	355	118 Average	HORIZONTAL
2	2359.61	64.12	74.00	-9.88	32.24	3.82	28.06	0.00	355	118 Peak	HORIZONTAL
3	2437.87	124.25			92.40	3.88	27.97	0.00	355	118 Peak	HORIZONTAL
4	2438.16	114.47			82.62	3.88	27.97	0.00	355	118 Average	HORIZONTAL
5	2483.50	64.23	74.00	-9.77	32.39	3.92	27.92	0.00	355	118 Peak	HORIZONTAL
6	2483.50	51.34	54.00	-2.66	19.50	3.92	27.92	0.00	355	118 Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2464.03	118.48			86.64	3.90	27.94	0.00	22	196 Peak	VERTICAL
2	2464.75	107.70			75.86	3.90	27.94	0.00	22	196 Average	VERTICAL
3	2483.50	52.80	54.00	-1.20	20.96	3.92	27.92	0.00	22	196 Average	VERTICAL
4	2483.79	67.02	74.00	-6.98	35.18	3.92	27.92	0.00	22	196 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 8: EUT 2 + Set 12 PIFA Antenna / Chain1:6.25 dBi, Chain2:5.77 dBi, Chain3:6.45 dBi, Chain4:5.60 dBi		

Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2390.00	67.32	74.00	-6.68	35.45	3.85	28.02	0.00	357	182 Peak	HORIZONTAL
2	2390.00	52.55	54.00	-1.45	20.68	3.85	28.02	0.00	357	182 Average	HORIZONTAL
3	2410.55	116.03			84.17	3.86	28.00	0.00	357	182 Peak	HORIZONTAL
4	2410.55	104.62			72.76	3.86	28.00	0.00	357	182 Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2361.06	51.27	54.00	-2.73	19.39	3.82	28.06	0.00	27	192 Average	VERTICAL
2	2381.03	64.43	74.00	-9.57	32.56	3.84	28.03	0.00	27	192 Peak	VERTICAL
3	2439.60	113.85			82.00	3.89	27.96	0.00	27	192 Average	VERTICAL
4	2439.89	125.52			93.67	3.89	27.96	0.00	27	192 Peak	VERTICAL
5	2483.50	50.69	54.00	-3.31	18.85	3.92	27.92	0.00	27	192 Average	VERTICAL
6	2485.82	66.02	74.00	-7.98	34.18	3.92	27.92	0.00	27	192 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2463.74	118.79			86.95	3.90	27.94	0.00	23	181 Peak	VERTICAL
2	2464.89	106.90			75.06	3.90	27.94	0.00	23	181 Average	VERTICAL
3	2483.79	52.56	54.00	-1.44	20.72	3.92	27.92	0.00	23	181 Average	VERTICAL
4	2484.66	67.67	74.00	-6.33	35.83	3.92	27.92	0.00	23	181 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 8: EUT 2 + Set 12 PIFA Antenna / Chain1:6.25 dBi, Chain2:5.77 dBi, Chain3:6.45 dBi, Chain4:5.60 dBi		

Channel 3

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2375.82	68.11	74.00	-5.89	36.24	3.83	28.04	0.00	32	165 Peak	VERTICAL
2	2385.95	52.78	54.00	-1.22	20.91	3.85	28.02	0.00	32	165 Average	VERTICAL
3	2424.89	100.70			68.84	3.87	27.99	0.00	32	165 Average	VERTICAL
4	2425.47	110.38			78.52	3.88	27.98	0.00	32	165 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2387.97	52.62	54.00	-1.38	20.75	3.85	28.02	0.00	355	183 Average	VERTICAL
2	2389.13	72.07	74.00	-1.93	40.20	3.85	28.02	0.00	355	183 Peak	VERTICAL
3	2445.97	116.01			84.16	3.89	27.96	0.00	355	183 Peak	VERTICAL
4	2446.26	105.89			74.04	3.89	27.96	0.00	355	183 Average	VERTICAL
5	2484.08	52.37	54.00	-1.63	20.53	3.92	27.92	0.00	355	183 Average	VERTICAL
6	2493.34	72.78	74.00	-1.22	40.95	3.92	27.91	0.00	355	183 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2443.32	110.52			78.67	3.89	27.96	0.00	17	233 Peak	HORIZONTAL
2	2443.90	100.53			68.68	3.89	27.96	0.00	17	233 Average	HORIZONTAL
3	2484.37	52.51	54.00	-1.49	20.67	3.92	27.92	0.00	17	233 Average	HORIZONTAL
4	2487.55	67.49	74.00	-6.51	35.65	3.92	27.92	0.00	17	233 Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

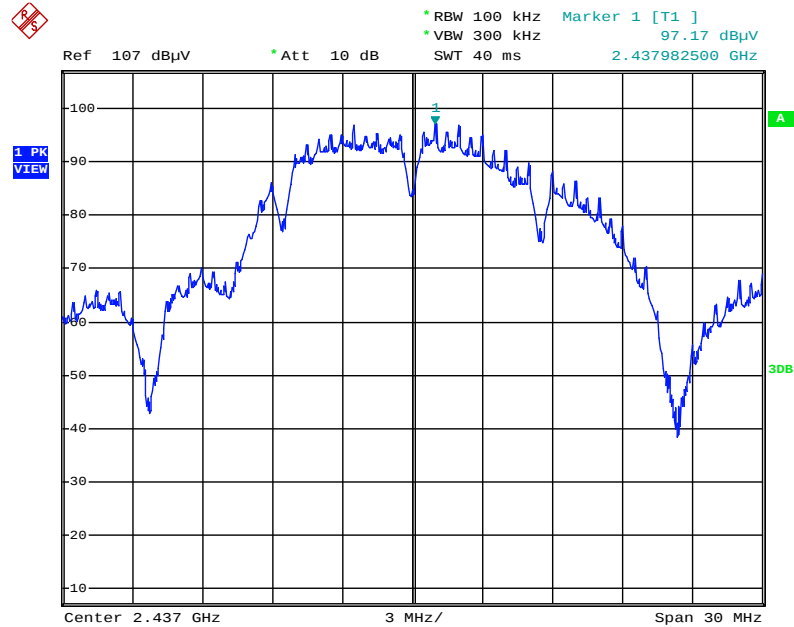
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

For Emission not in Restricted Band

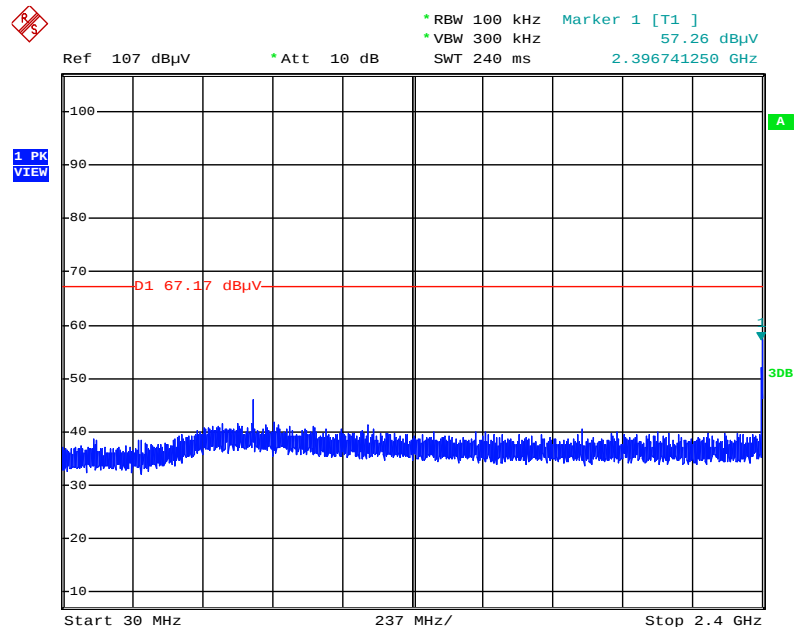
Mode 1: EUT 1 + Set 1 Sector Antenna / 7.5 dBi

Plot on Configuration IEEE 802.11b / Reference Level



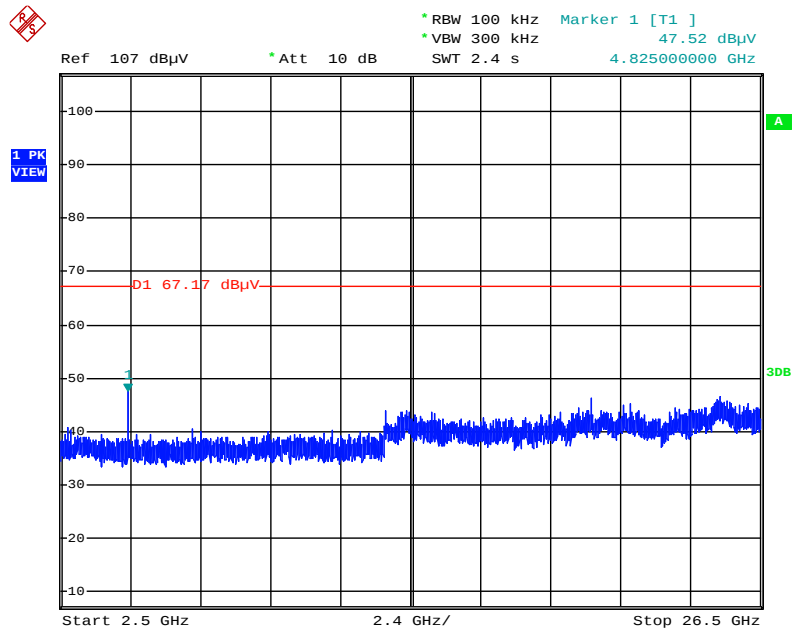
Date: 4.DEC.2015 18:02:14

Plot on Configuration IEEE 802.11b / CH 1 / 30MHz~2400MHz (down 30dBc)



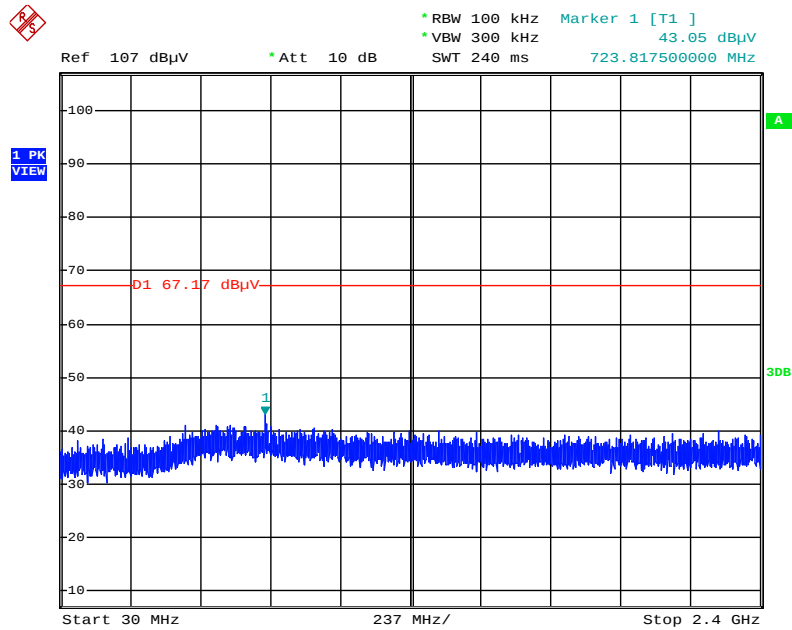
Date: 4.DEC.2015 18:07:47

Plot on Configuration IEEE 802.11b / CH 1 / 2500MHz~26500MHz (down 30dBc)



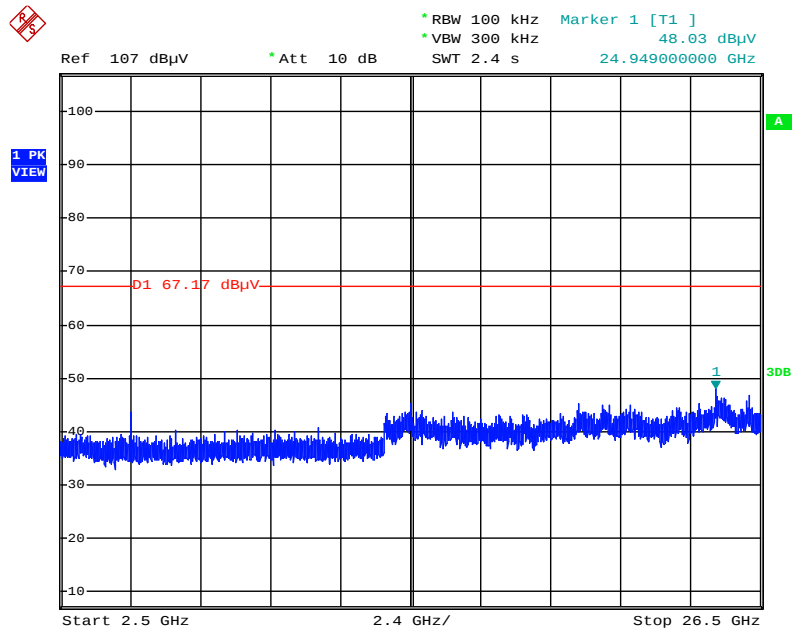
Date: 4.DEC.2015 18:08:13

Plot on Configuration IEEE 802.11b / CH 11 / 30MHz~2400MHz (down 30dBc)



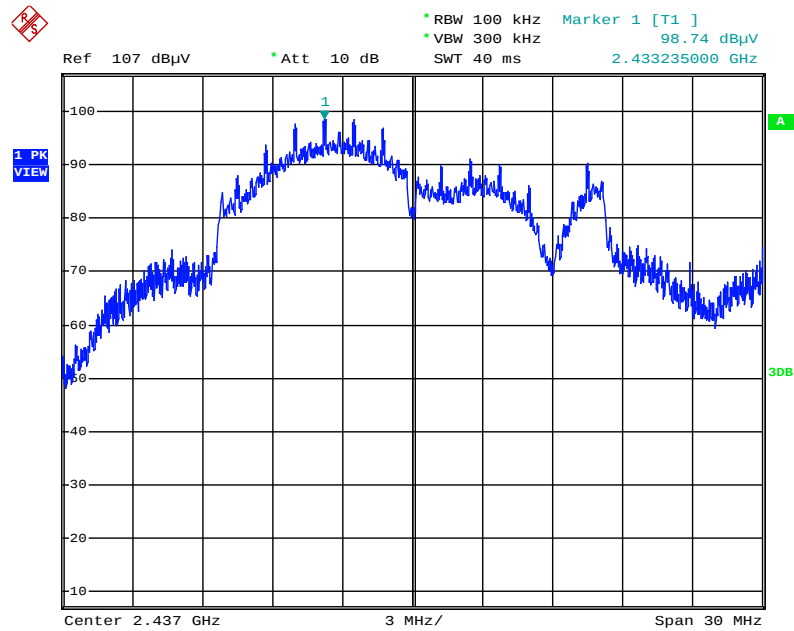
Date: 4.DEC.2015 18:09:33

Plot on Configuration IEEE 802.11b / CH 11 / 2500MHz~26500MHz (down 30dBc)



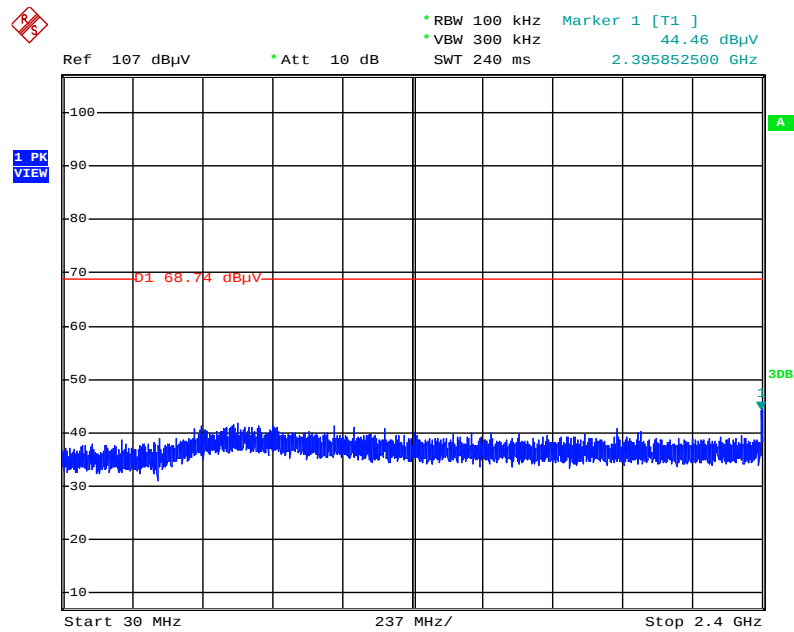
Date: 4.DEC.2015 18:09:14

Plot on Configuration IEEE 802.11g / Reference Level



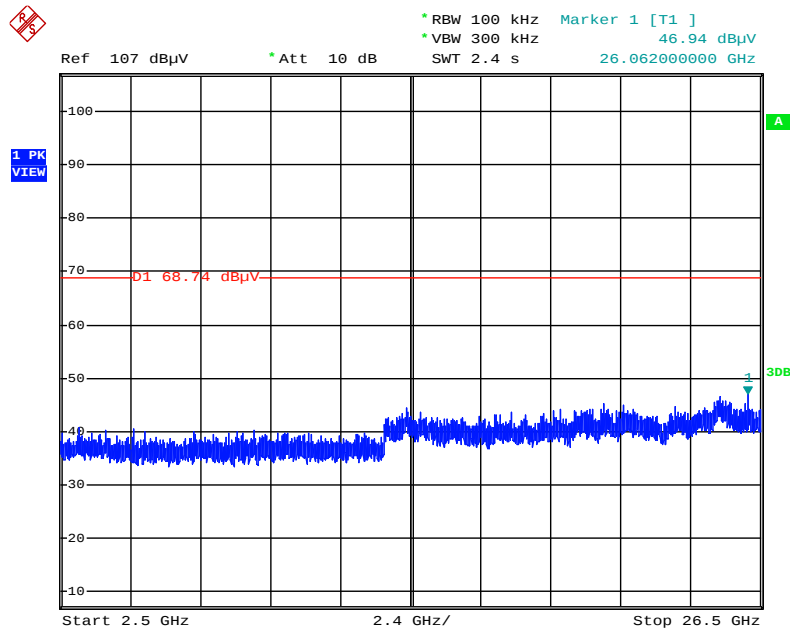
Date: 4.DEC.2015 18:12:23

Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)



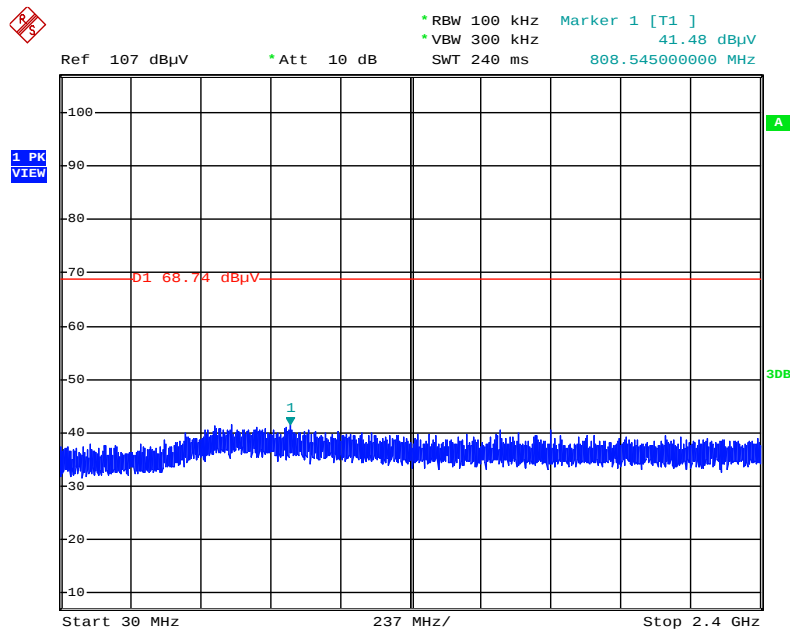
Date: 4.DEC.2015 18:13:56

Plot on Configuration IEEE 802.11g / CH 1 / 2500MHz~26500MHz (down 30dBc)



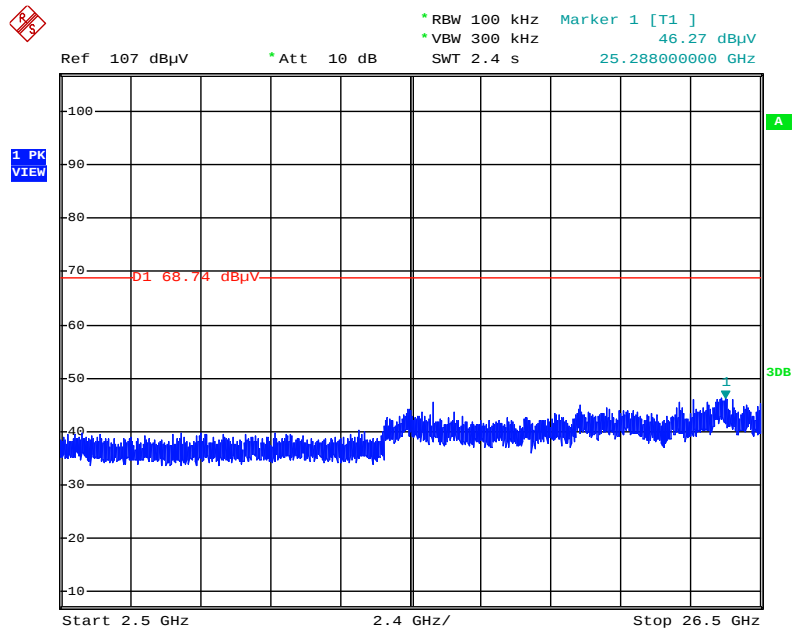
Date: 4.DEC.2015 18:14:22

Plot on Configuration IEEE 802.11g / CH 11 / 30MHz~2400MHz (down 30dBc)



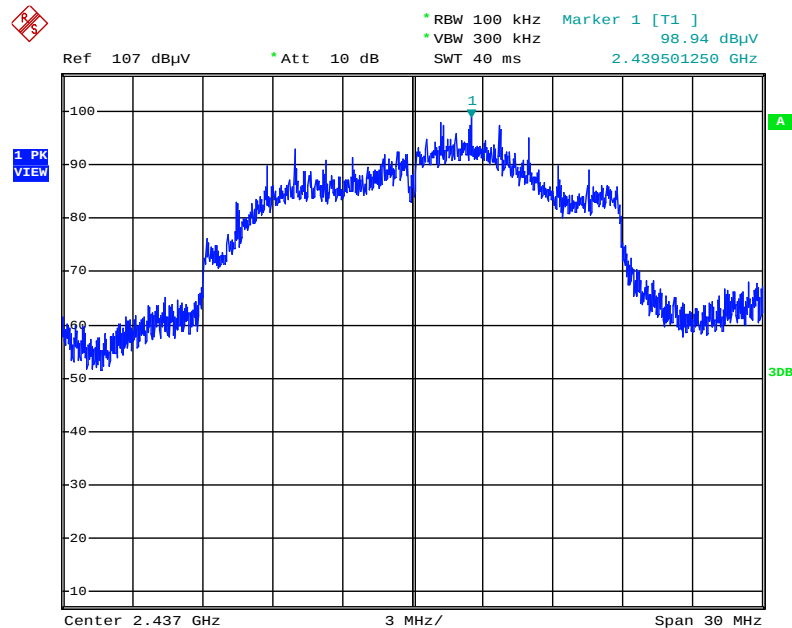
Date: 4.DEC.2015 18:15:41

Plot on Configuration IEEE 802.11g / CH 11 / 2500MHz~26500MHz (down 30dBc)



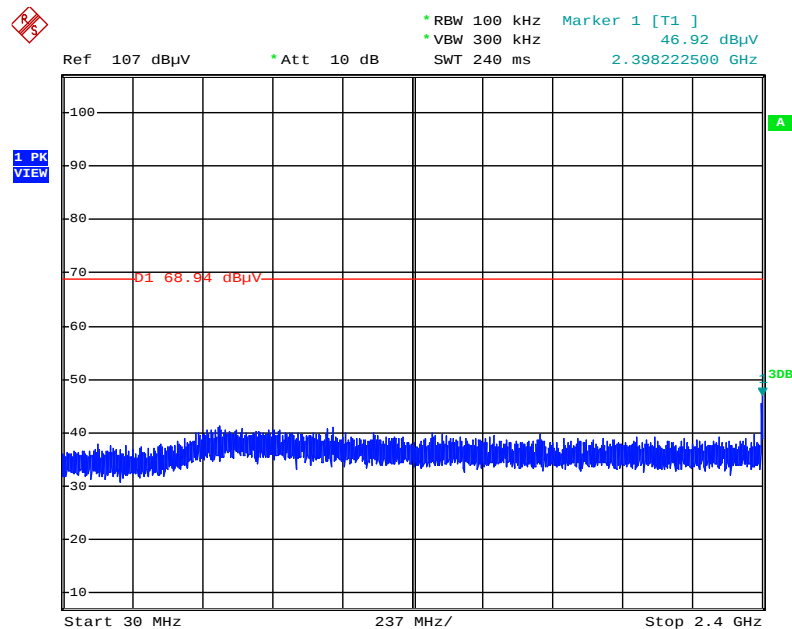
Date: 4.DEC.2015 18:15:11

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Reference Level



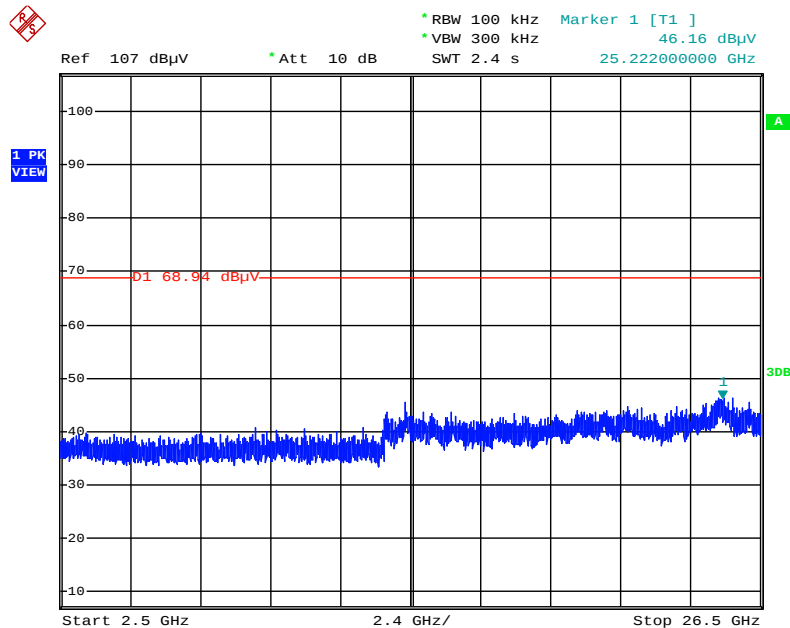
Date: 4.DEC.2015 18:17:08

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



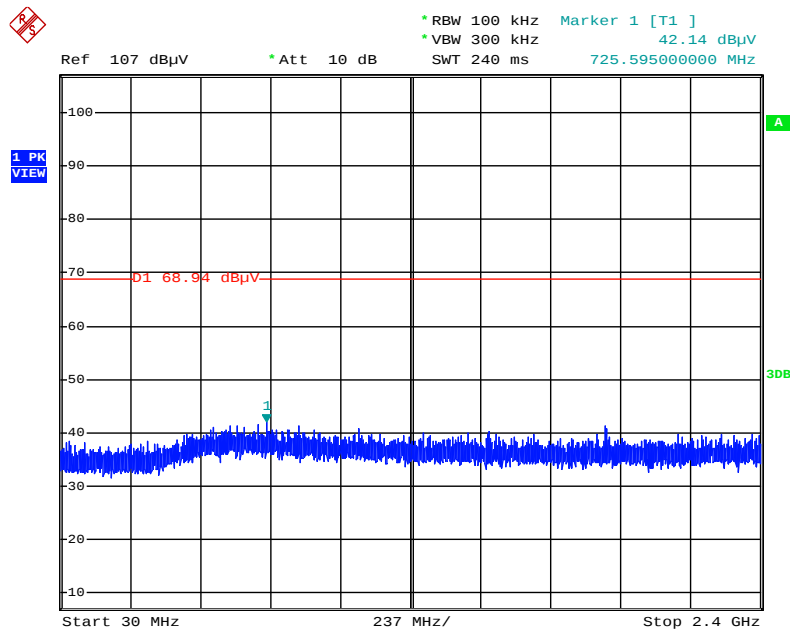
Date: 4.DEC.2015 18:19:46

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2500MHz~26500MHz (down 30dBc)



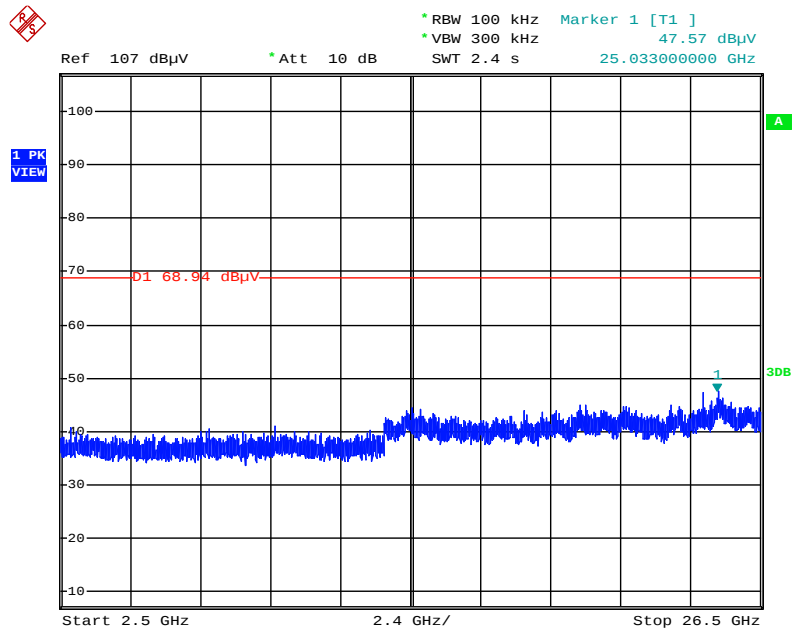
Date: 4.DEC.2015 18:20:35

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



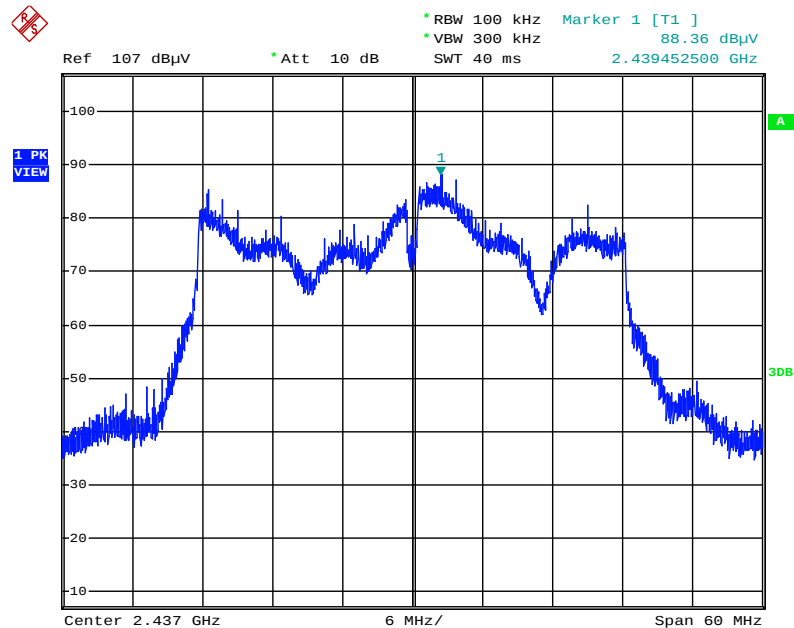
Date: 4.DEC.2015 18:23:49

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2500MHz~26500MHz (down 30dBc)



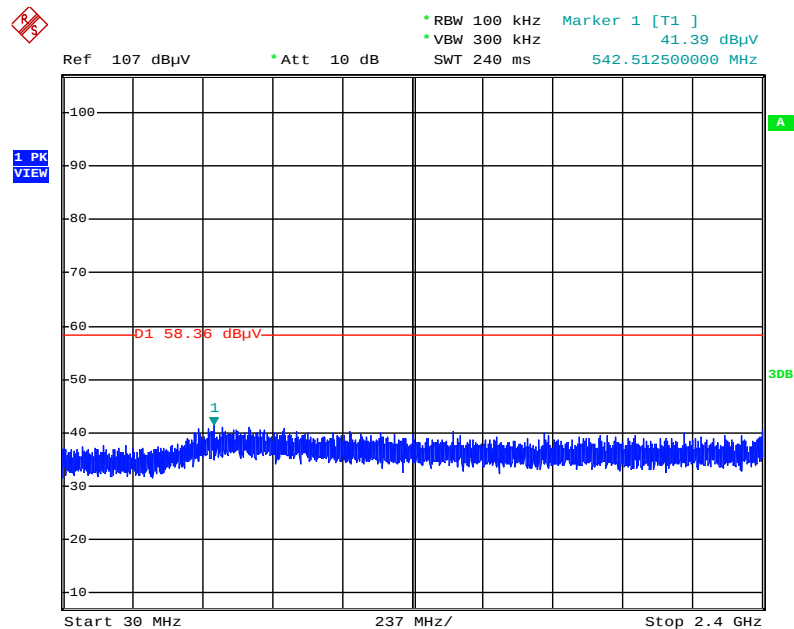
Date: 4.DEC.2015 18:23:24

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



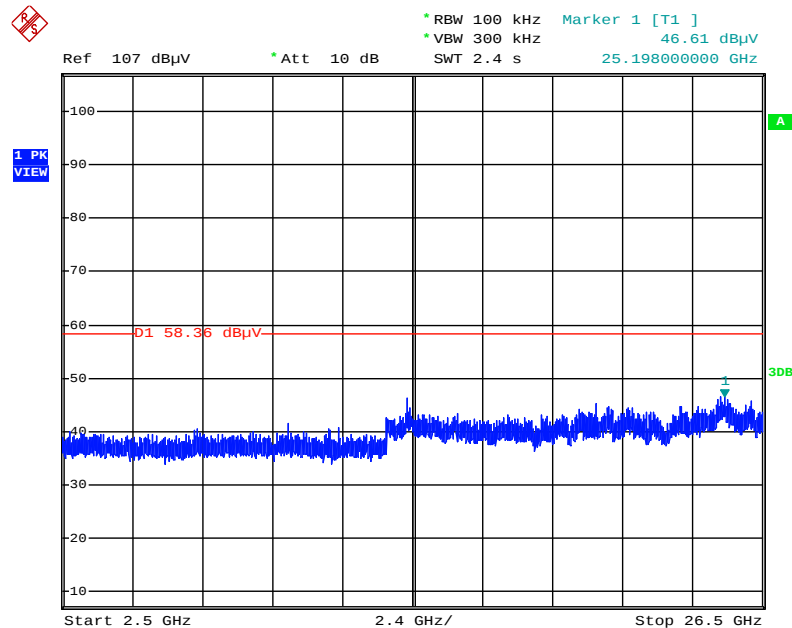
Date: 4.DEC.2015 18:26:11

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



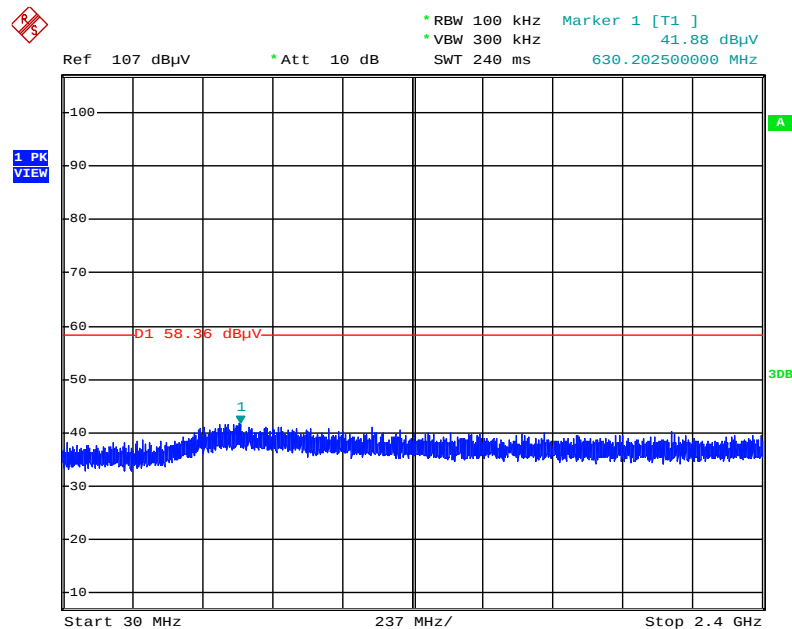
Date: 4.DEC.2015 18:33:01

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2500MHz~26500MHz (down 30dBc)



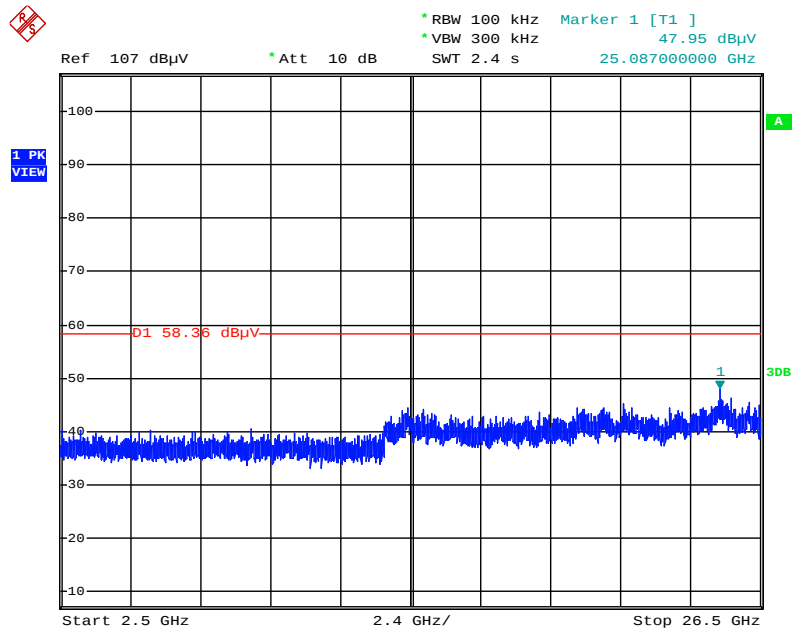
Date: 4.DEC.2015 18:33:29

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)



Date: 4.DEC.2015 18:35:13

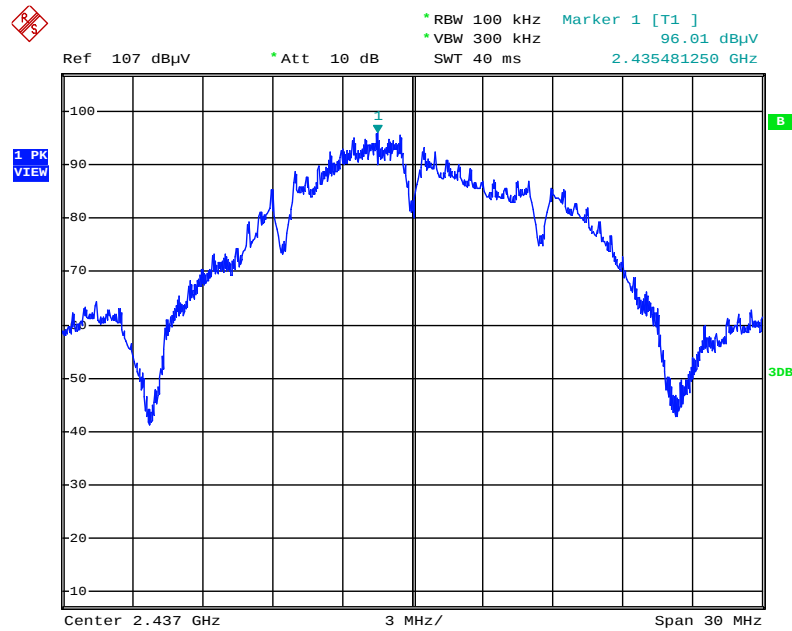
Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2500MHz~26500MHz (down 30dBc)



Date: 4.DEC.2015 18:34:38

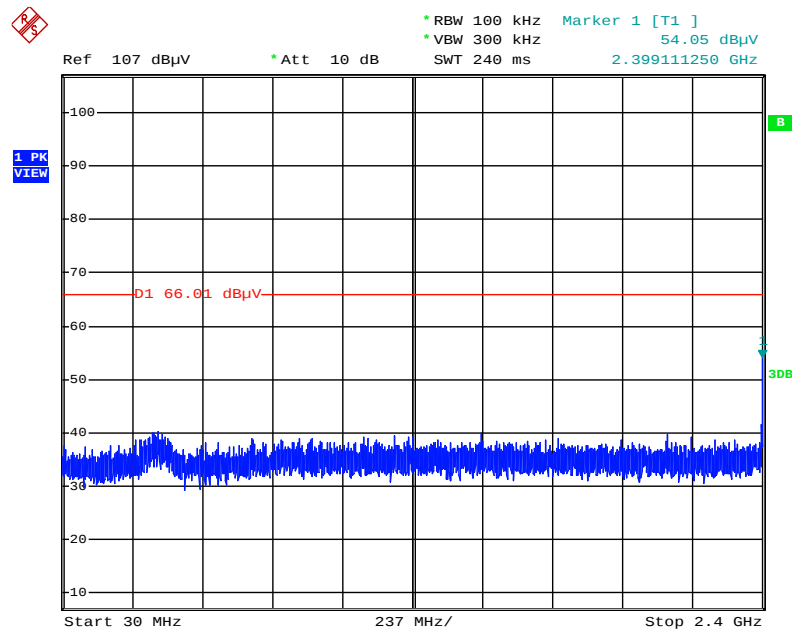
Mode 2: EUT 1 + Set 3 Sector Antenna / 5.5 dBi

Plot on Configuration IEEE 802.11b / Reference Level



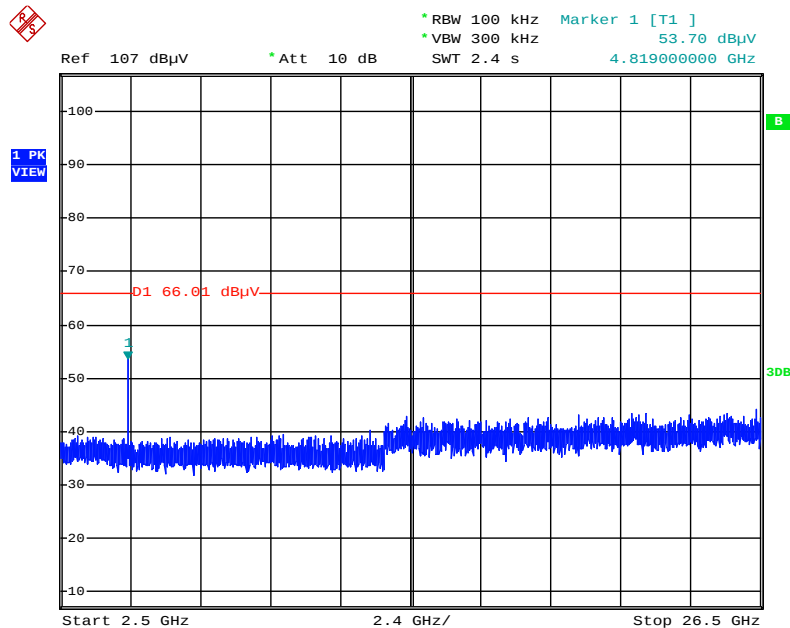
Date: 19.NOV.2015 00:57:49

Plot on Configuration IEEE 802.11b / CH 1 / 30MHz~2400MHz (down 30dBc)



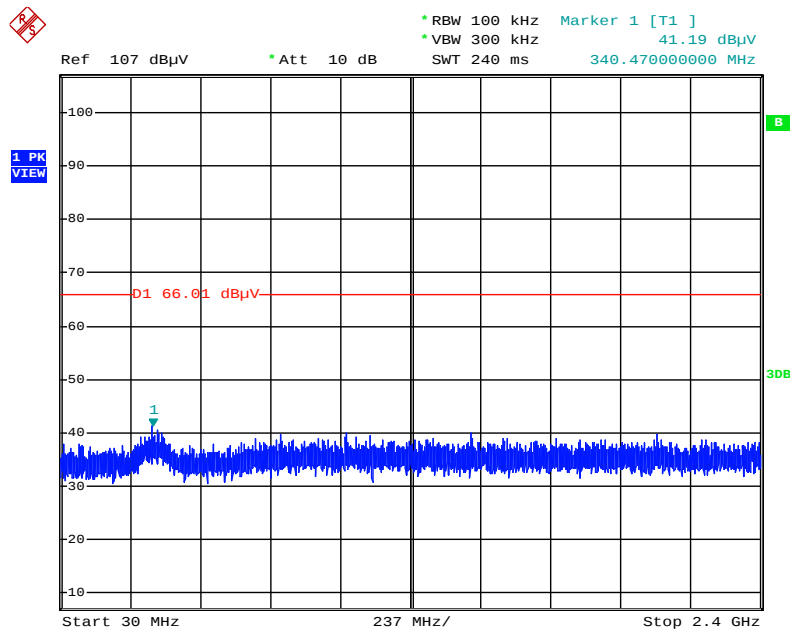
Date: 19.NOV.2015 00:58:38

Plot on Configuration IEEE 802.11b / CH 1 / 2500MHz~26500MHz (down 30dBc)



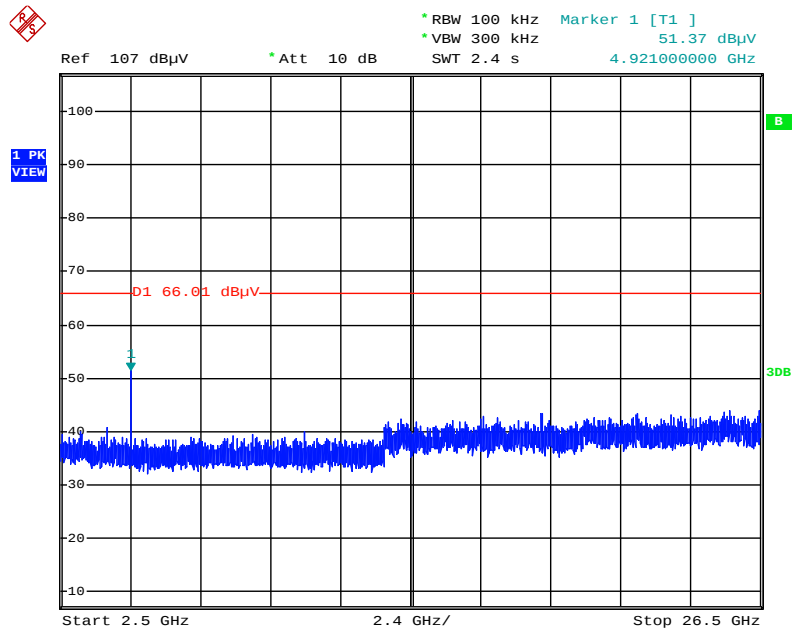
Date: 19.NOV.2015 00:59:00

Plot on Configuration IEEE 802.11b / CH 11 / 30MHz~2400MHz (down 30dBc)



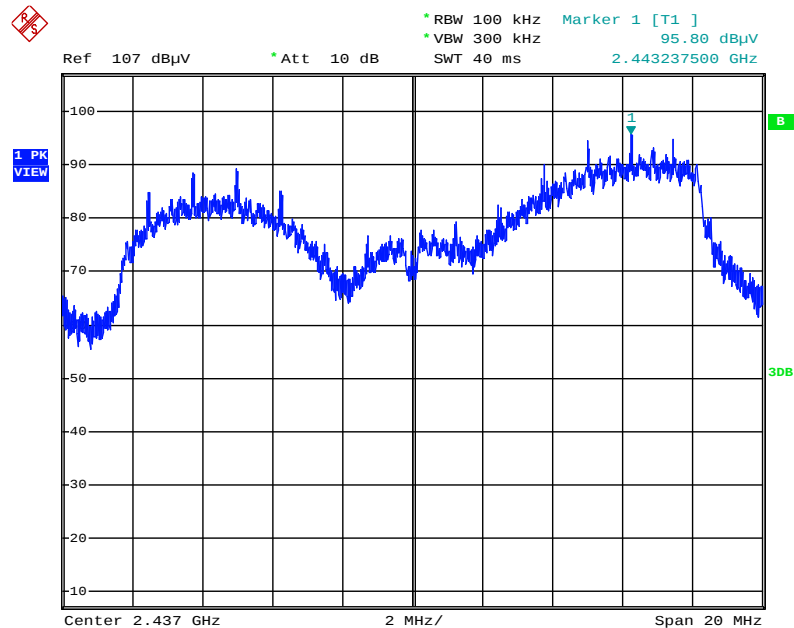
Date: 19.NOV.2015 00:59:57

Plot on Configuration IEEE 802.11b / CH 11 / 2500MHz~26500MHz (down 30dBc)



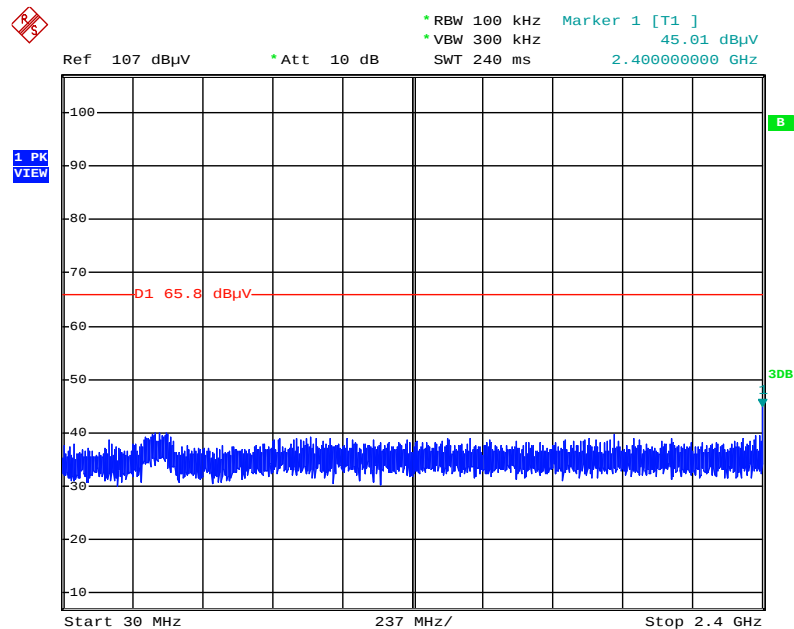
Date: 19.NOV.2015 00:59:37

Plot on Configuration IEEE 802.11g / Reference Level



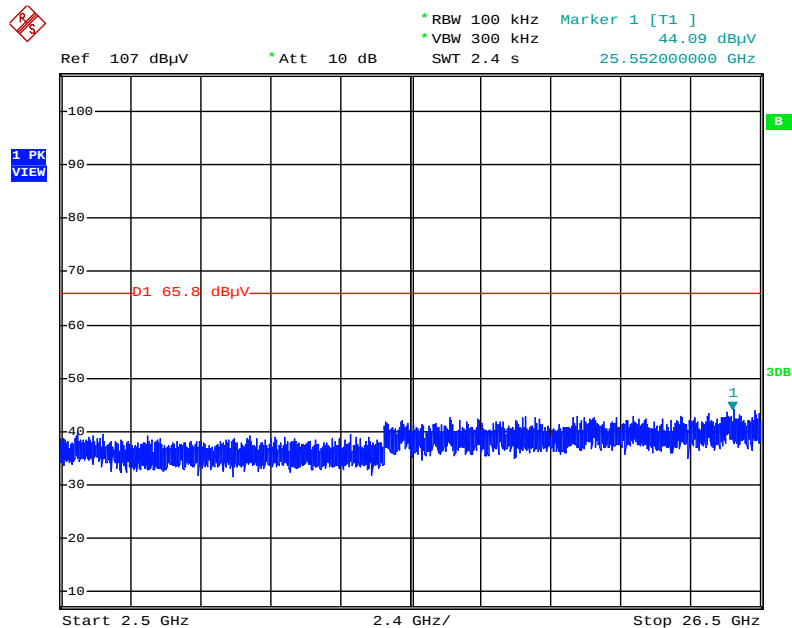
Date: 19.NOV.2015 01:01:37

Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)



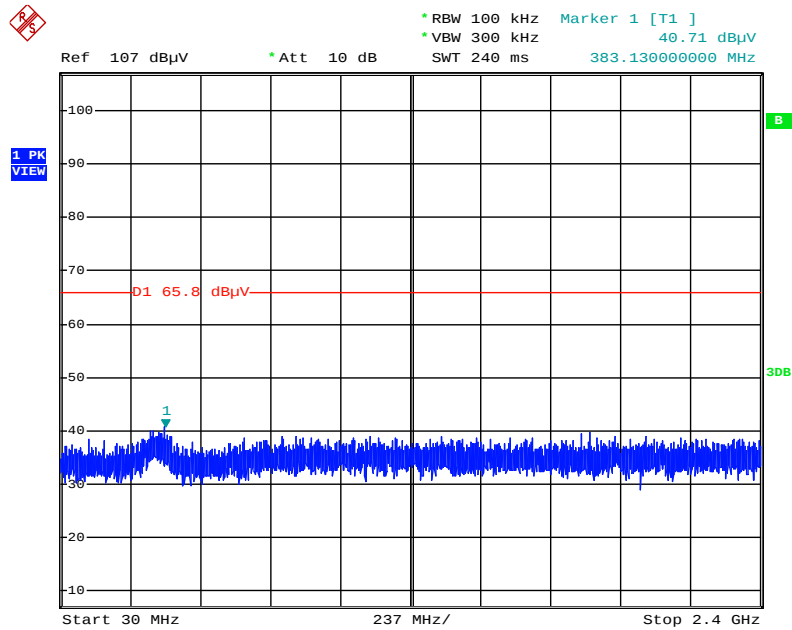
Date: 19.NOV.2015 01:02:25

Plot on Configuration IEEE 802.11g / CH 1 / 2500MHz~26500MHz (down 30dBc)



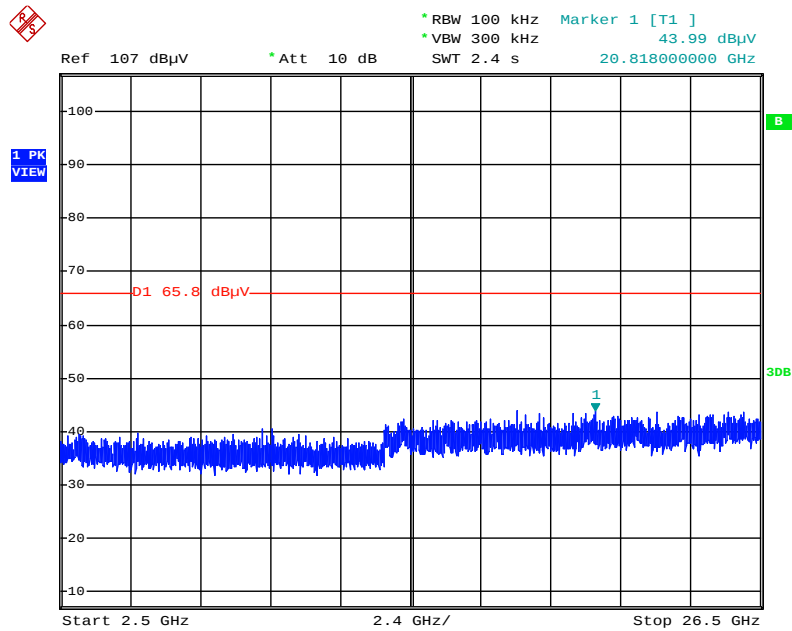
Date: 19.NOV.2015 01:02:49

Plot on Configuration IEEE 802.11g / CH 11 / 30MHz~2400MHz (down 30dBc)



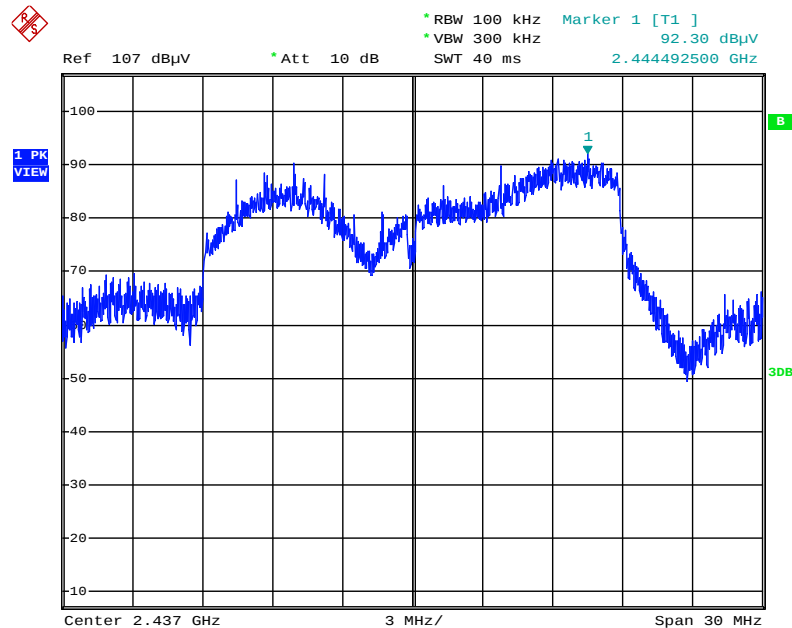
Date: 19.NOV.2015 01:03:41

Plot on Configuration IEEE 802.11g / CH 11 / 2500MHz~26500MHz (down 30dBc)



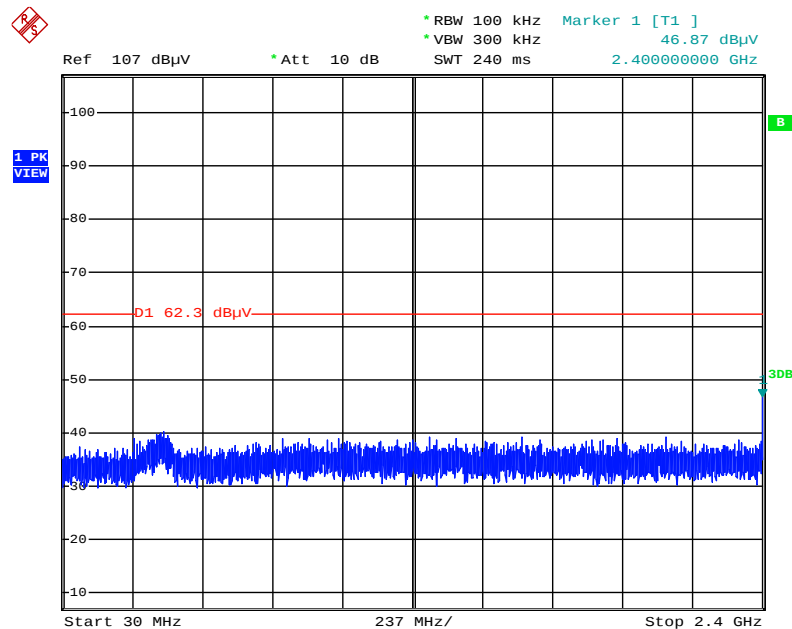
Date: 19.NOV.2015 01:03:22

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Reference Level



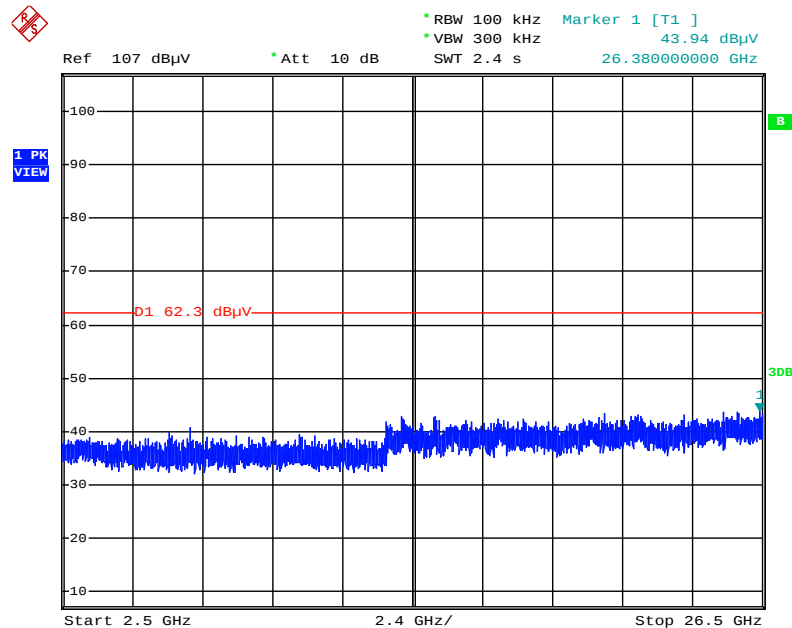
Date: 19.NOV.2015 01:06:06

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



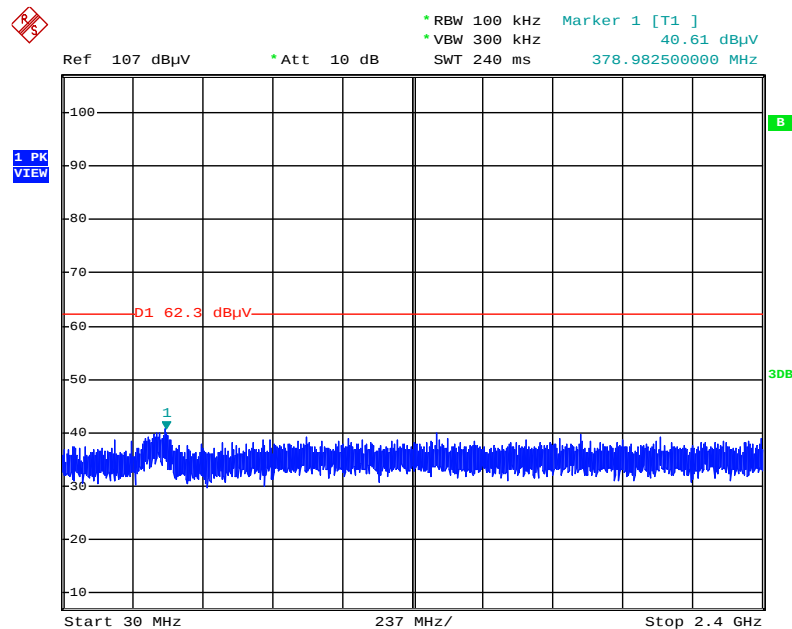
Date: 19.NOV.2015 01:06:58

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2500MHz~26500MHz (down 30dBc)



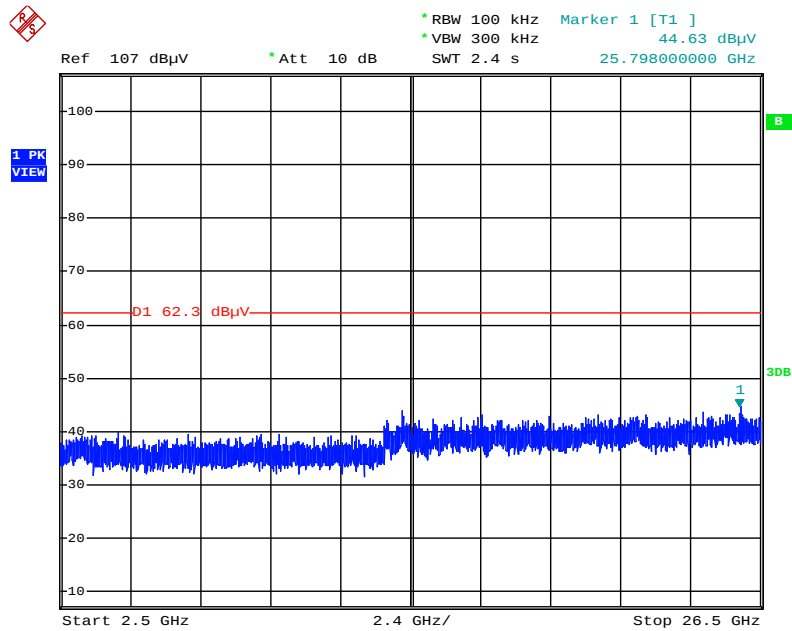
Date: 19.NOV.2015 01:07:19

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



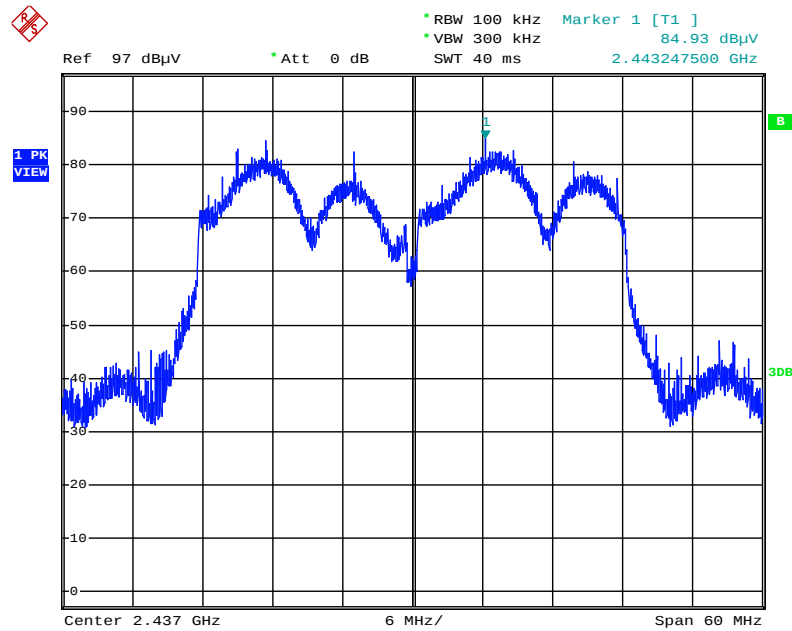
Date: 19.NOV.2015 01:08:33

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2500MHz~26500MHz (down 30dBc)



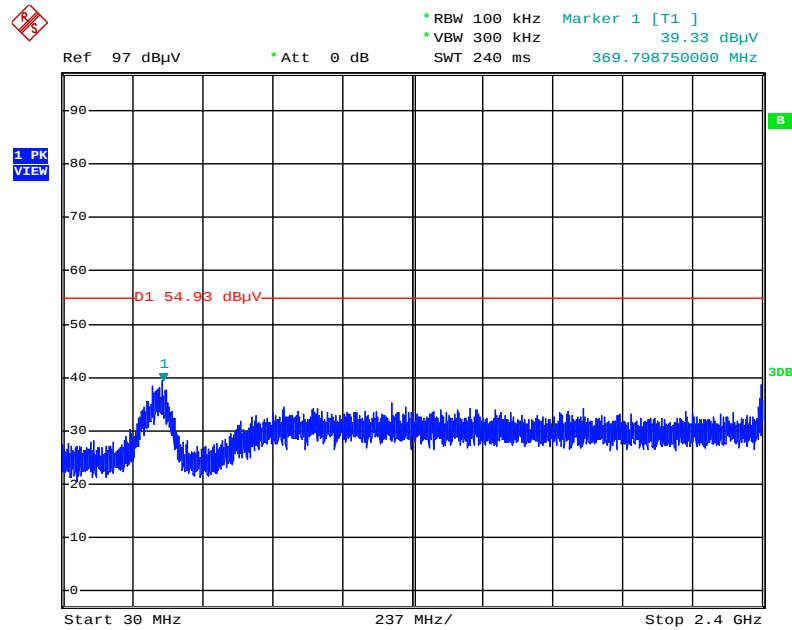
Date: 19.NOV.2015 01:08:06

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



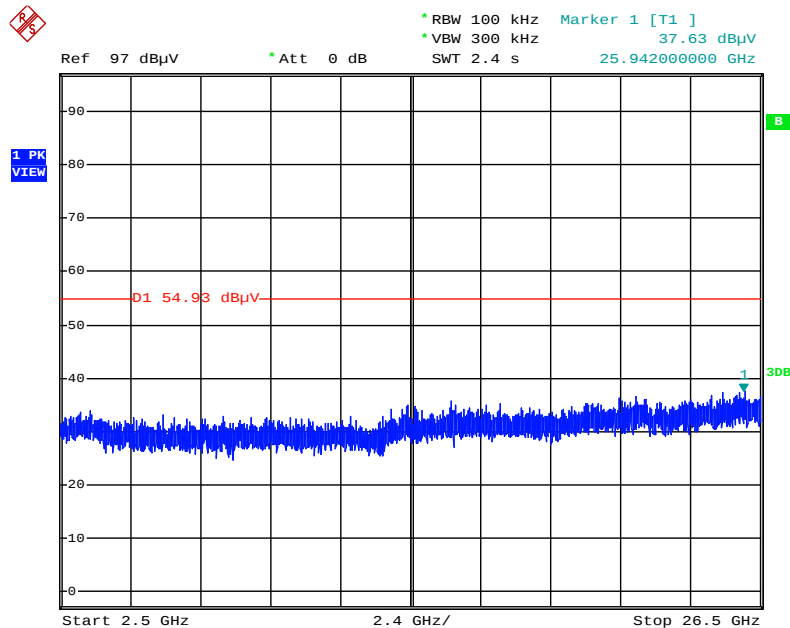
Date: 19.NOV.2015 01:10:06

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



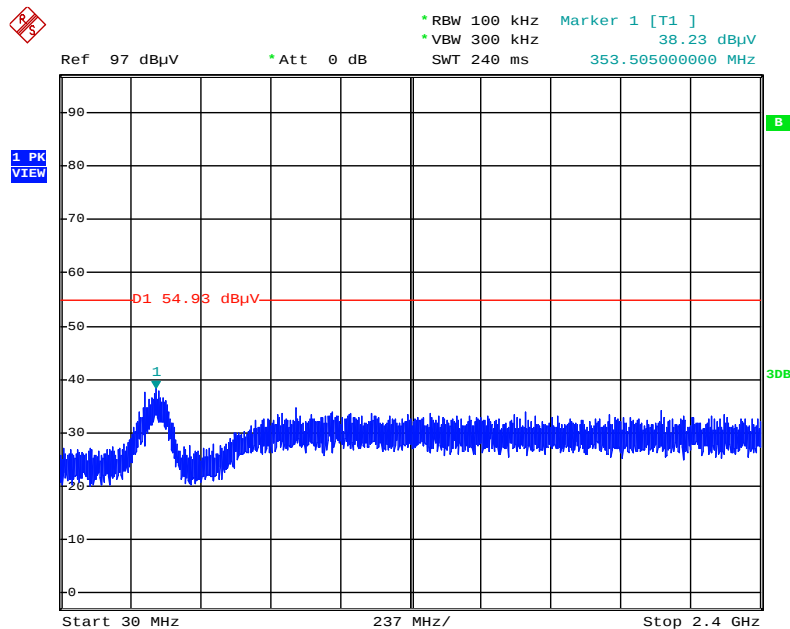
Date: 19.NOV.2015 01:11:19

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2500MHz~26500MHz (down 30dBc)



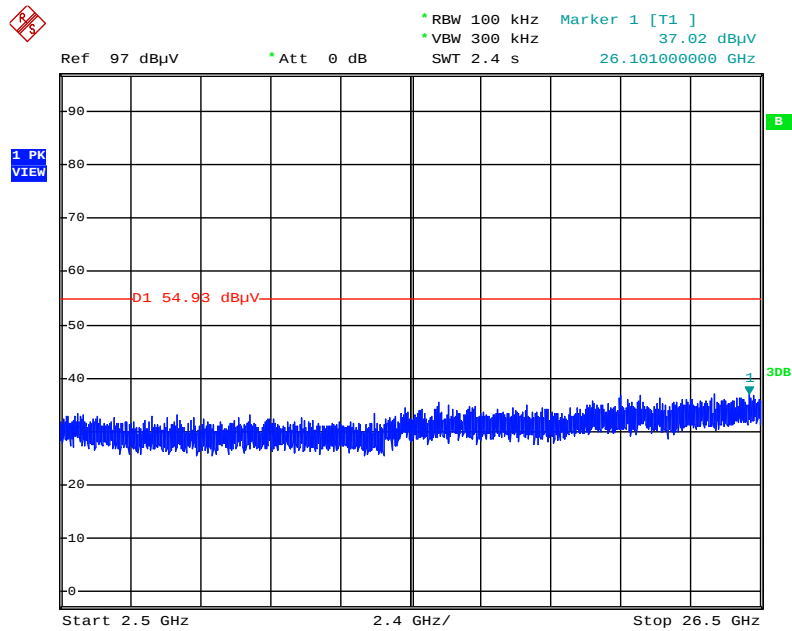
Date: 19.NOV.2015 01:11:41

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)



Date: 19.NOV.2015 01:12:41

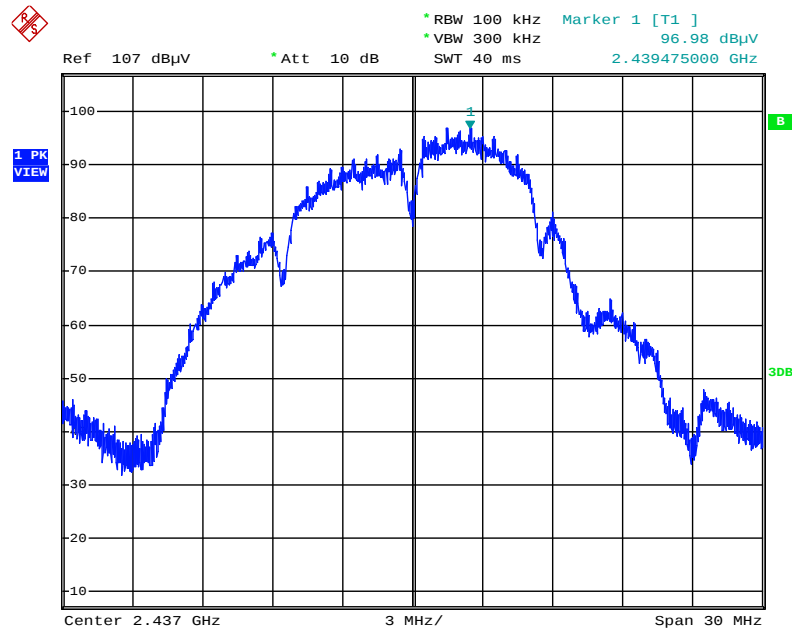
Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2500MHz~26500MHz (down 30dBc)



Date: 19.NOV.2015 01:12:21

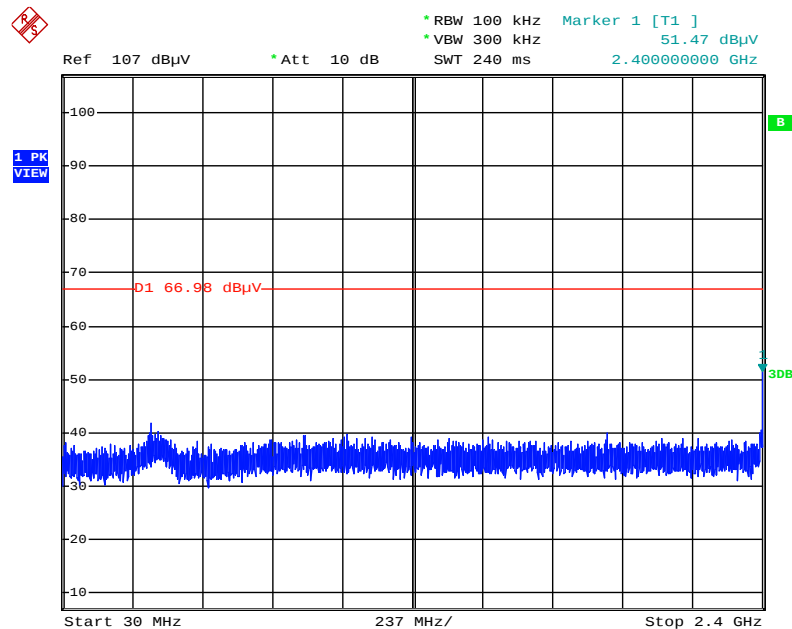
Mode 3: EUT 1 + Set 4 Sector Antenna / 10.5 dBi

Plot on Configuration IEEE 802.11b / Reference Level



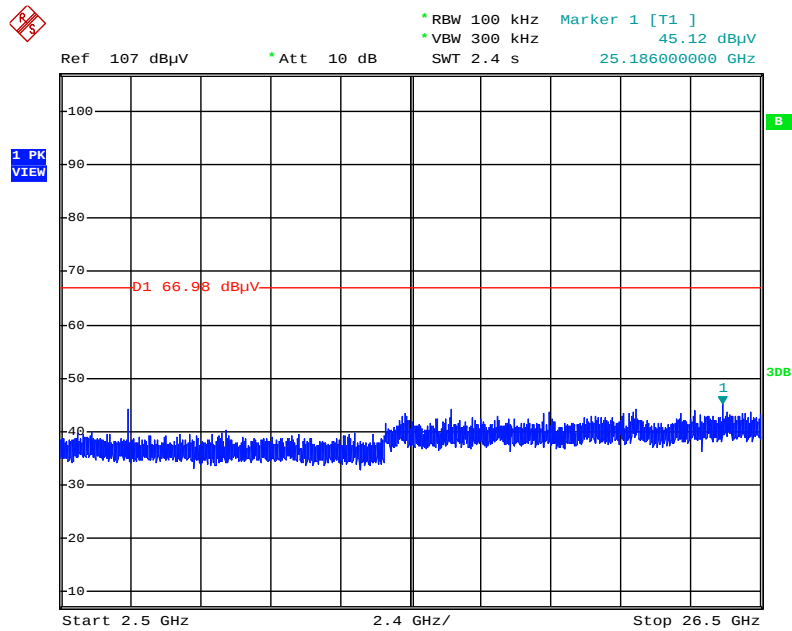
Date: 18.NOV.2015 23:30:07

Plot on Configuration IEEE 802.11b / CH 1 / 30MHz~2400MHz (down 30dBc)



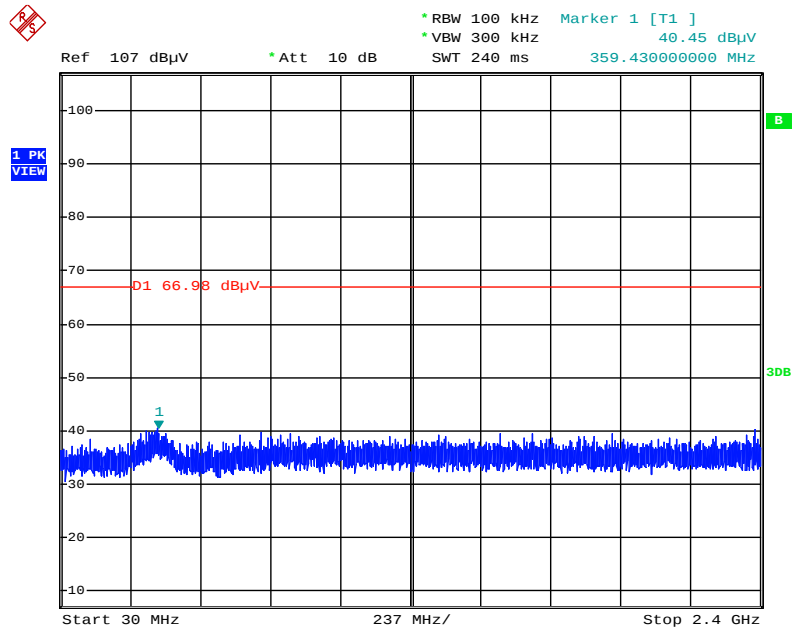
Date: 18.NOV.2015 23:59:50

Plot on Configuration IEEE 802.11b / CH 1 / 2500MHz~26500MHz (down 30dBc)



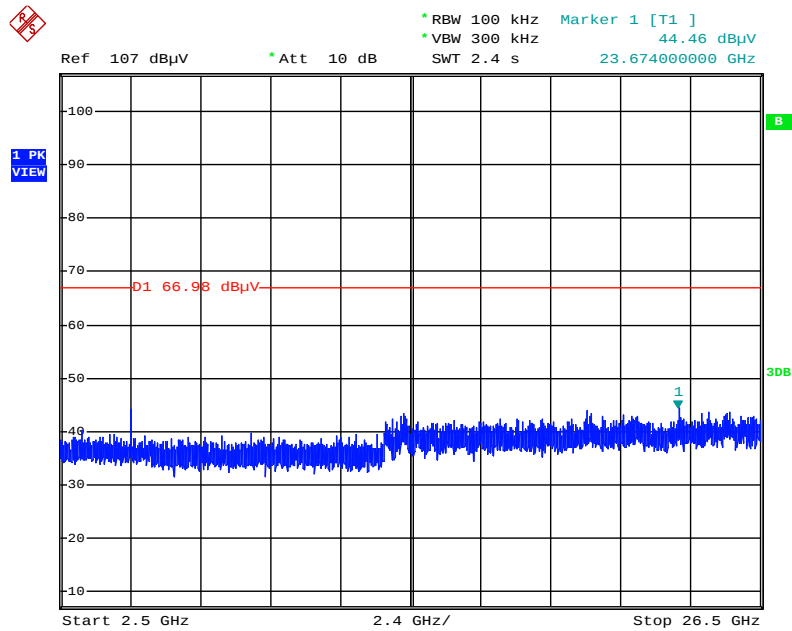
Date: 19.NOV.2015 00:00:41

Plot on Configuration IEEE 802.11b / CH 11 / 30MHz~2400MHz (down 30dBc)



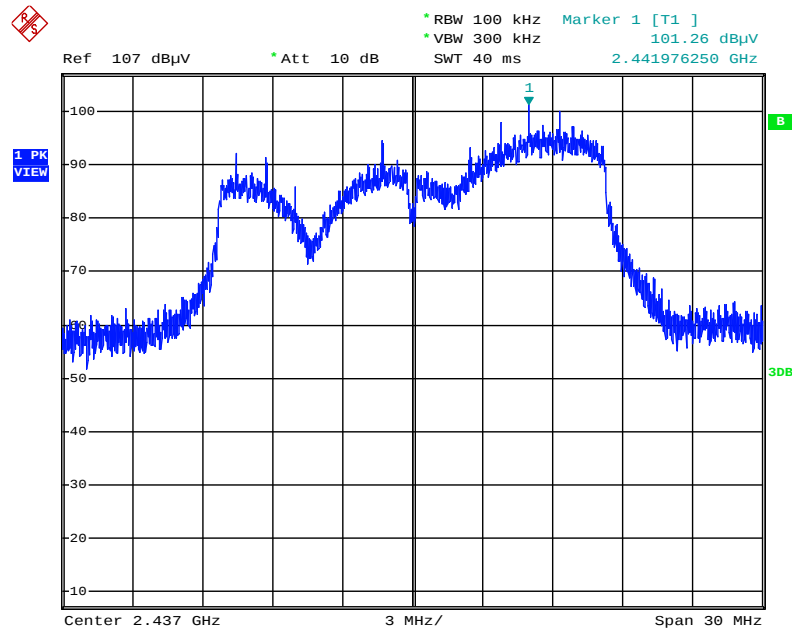
Date: 19.NOV.2015 00:01:48

Plot on Configuration IEEE 802.11b / CH 11 / 2500MHz~26500MHz (down 30dBc)



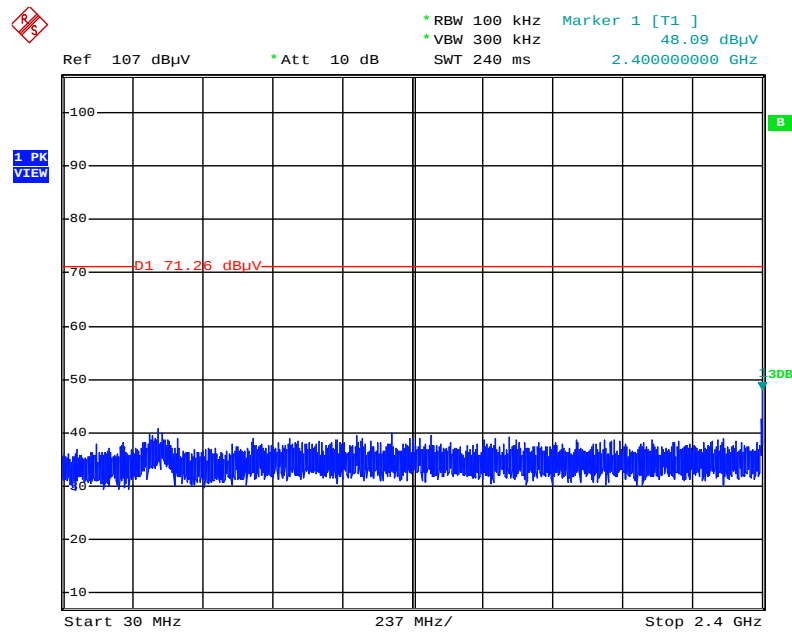
Date: 19.NOV.2015 00:01:23

Plot on Configuration IEEE 802.11g / Reference Level



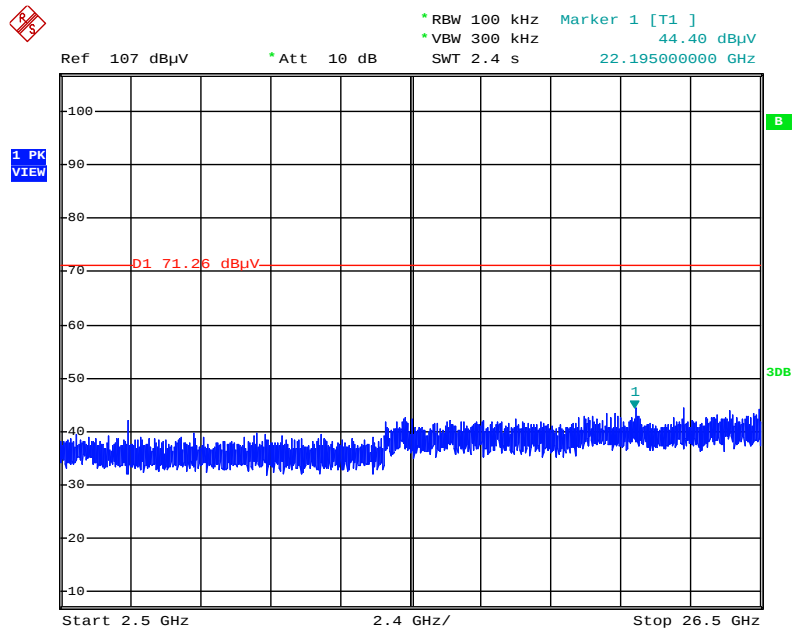
Date: 19.NOV.2015 00:04:15

Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)



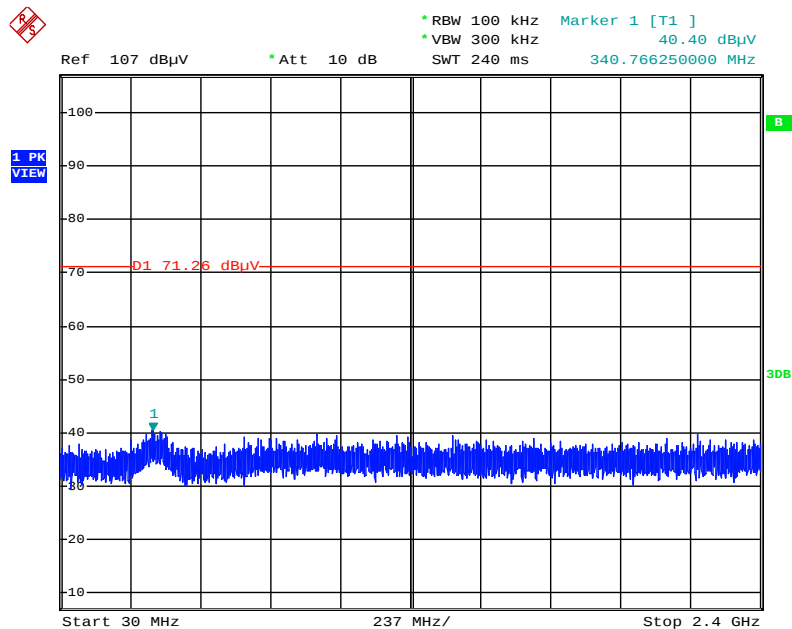
Date: 19.NOV.2015 00:05:17

Plot on Configuration IEEE 802.11g / CH 1 / 2500MHz~26500MHz (down 30dBc)



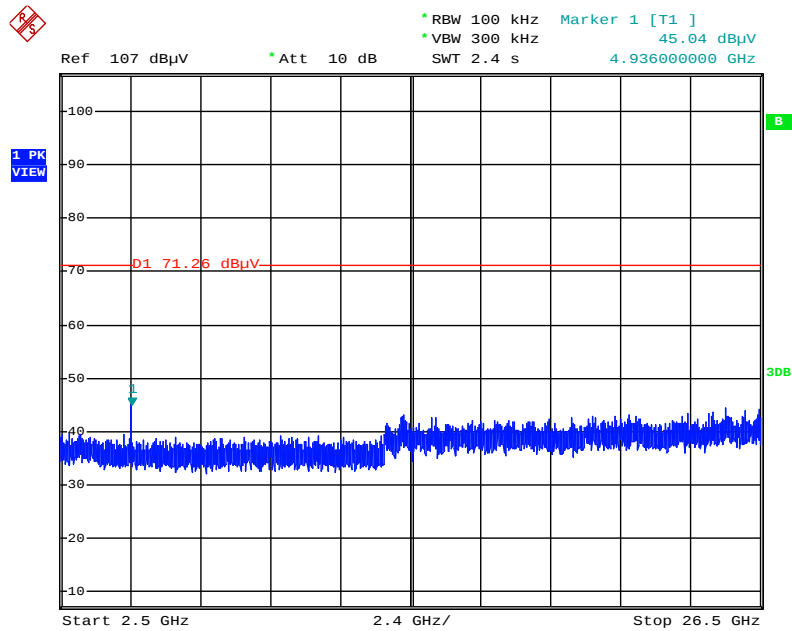
Date: 19.NOV.2015 00:05:46

Plot on Configuration IEEE 802.11g / CH 11 / 30MHz~2400MHz (down 30dBc)



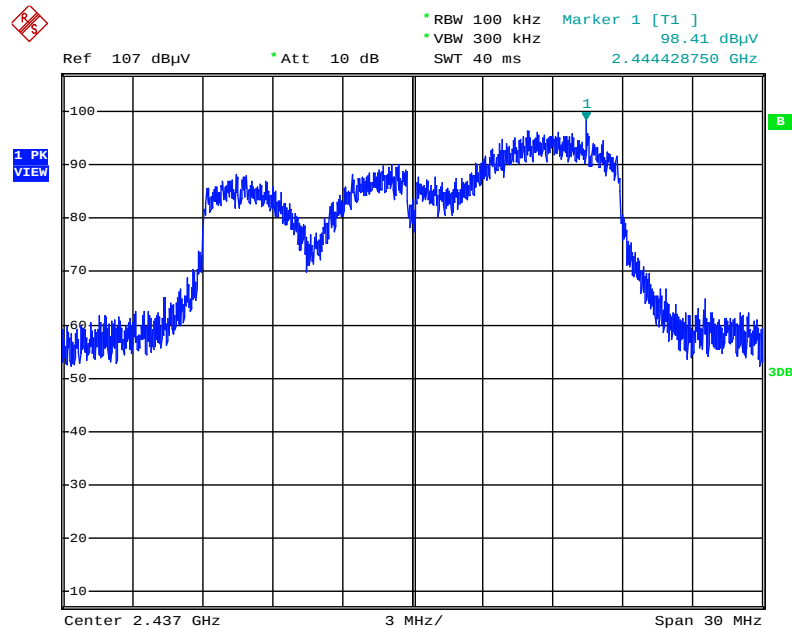
Date: 19.NOV.2015 00:06:45

Plot on Configuration IEEE 802.11g / CH 11 / 2500MHz~26500MHz (down 30dBc)



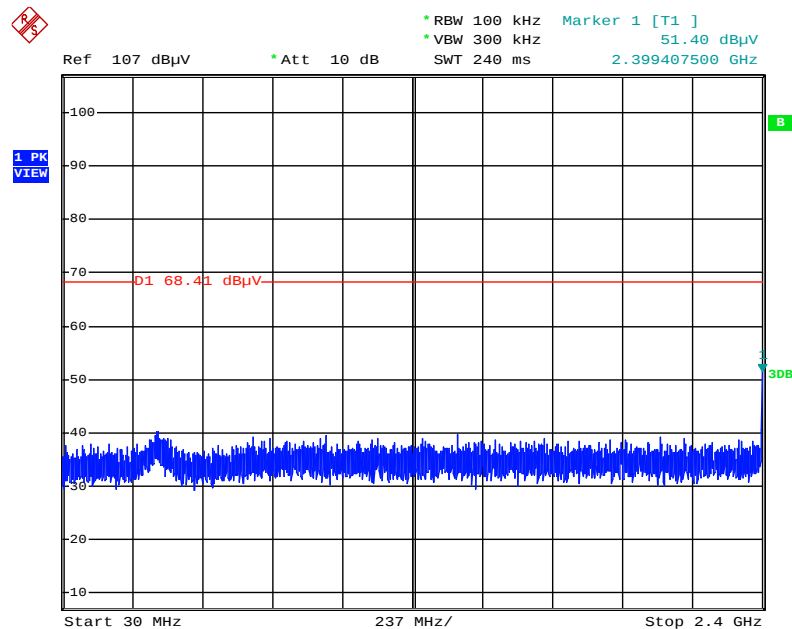
Date: 19.NOV.2015 00:06:24

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Reference Level



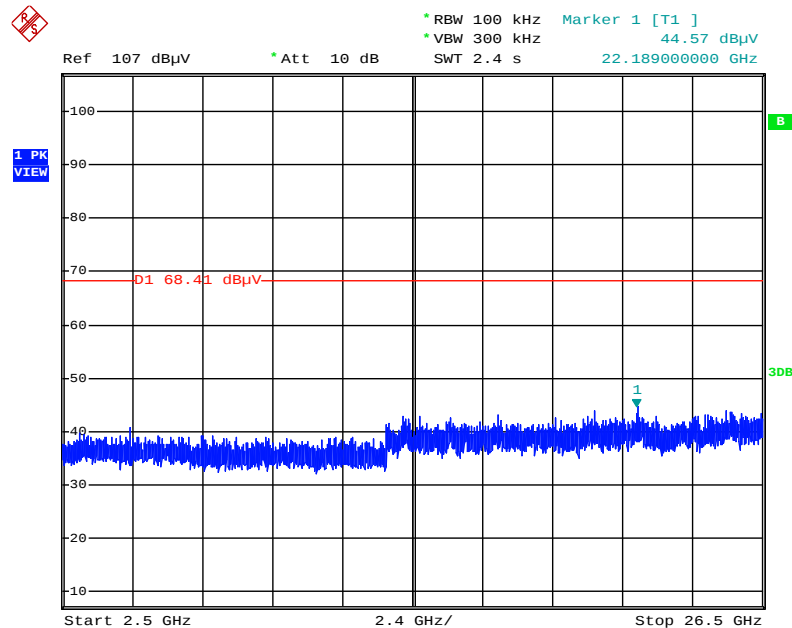
Date: 19.NOV.2015 00:08:05

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



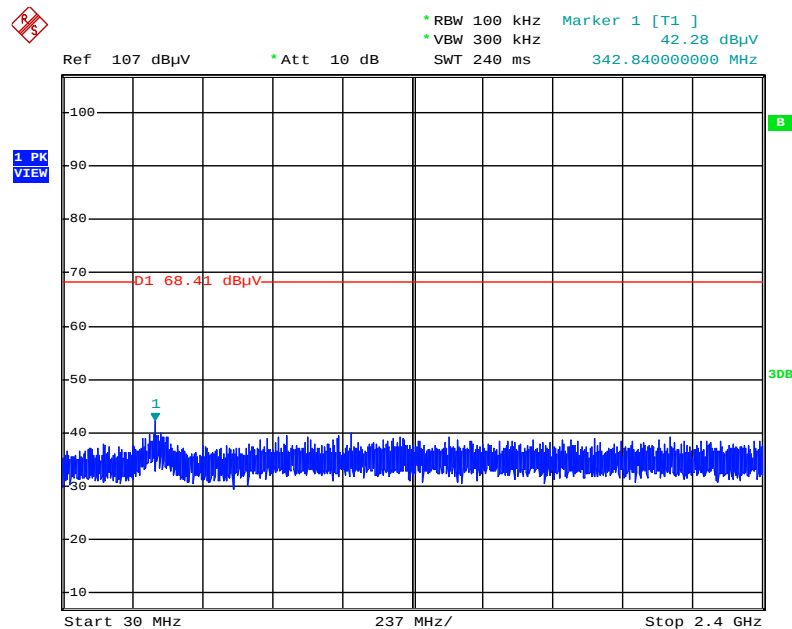
Date: 19.NOV.2015 00:10:13

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2500MHz~26500MHz (down 30dBc)



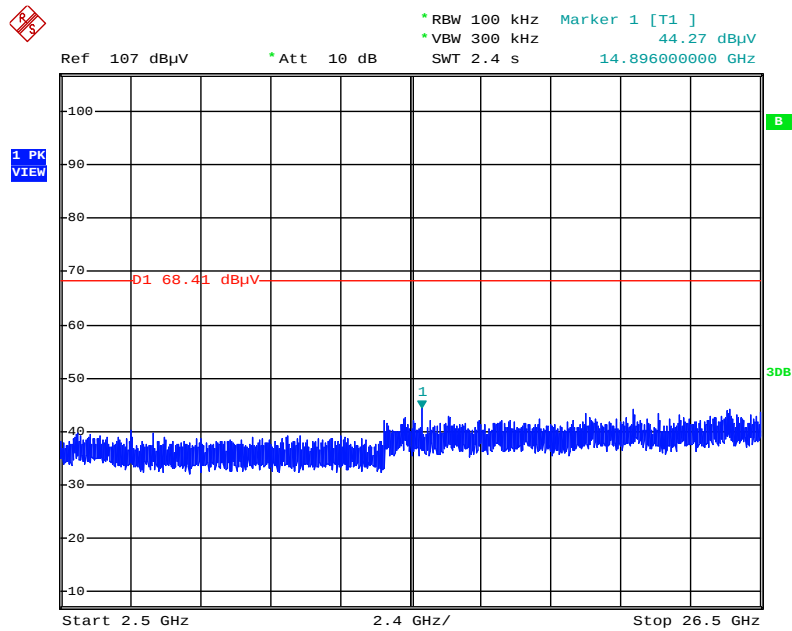
Date: 19.NOV.2015 00:10:38

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



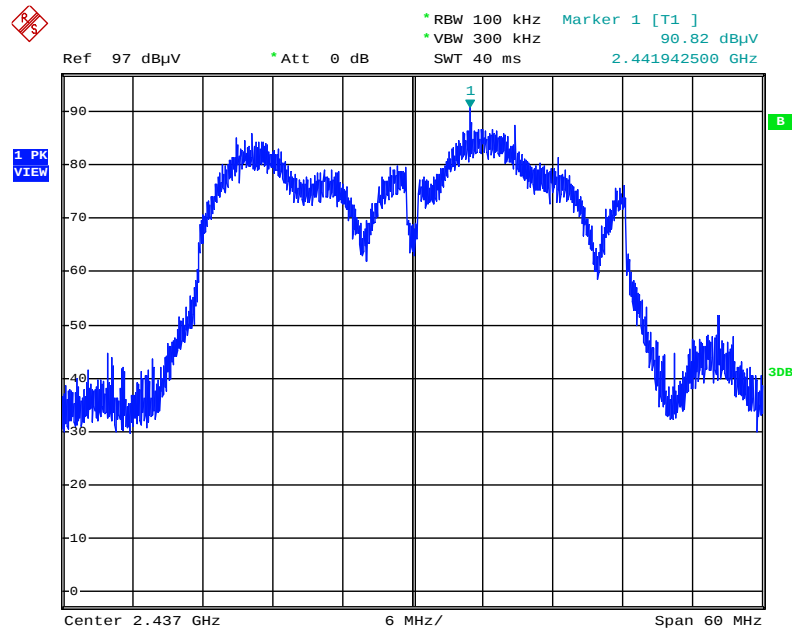
Date: 19.NOV.2015 00:11:39

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2500MHz~26500MHz (down 30dBc)



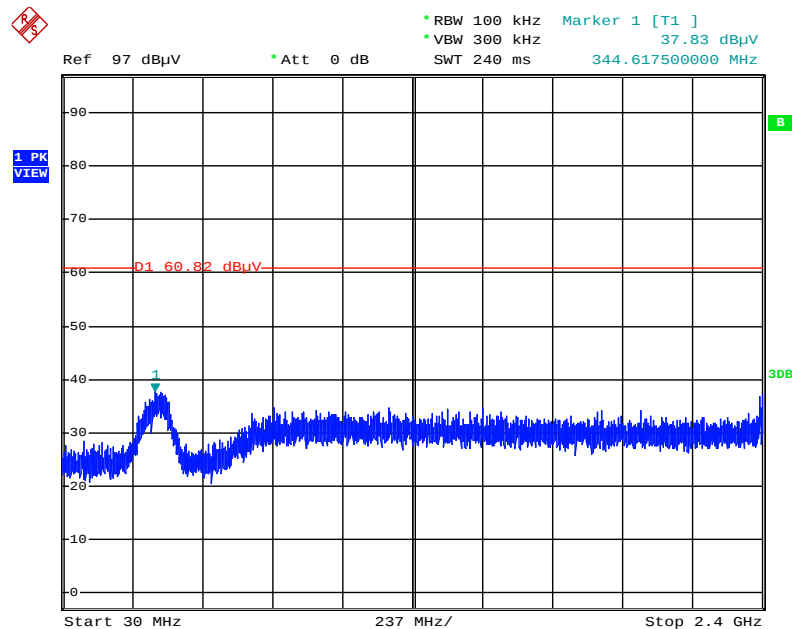
Date: 19.NOV.2015 00:11:18

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



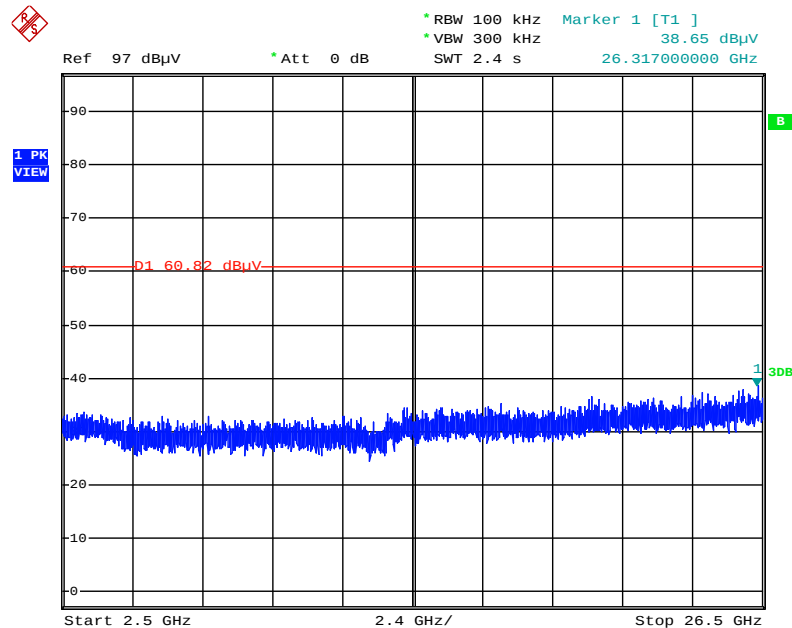
Date: 19.NOV.2015 00:16:31

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



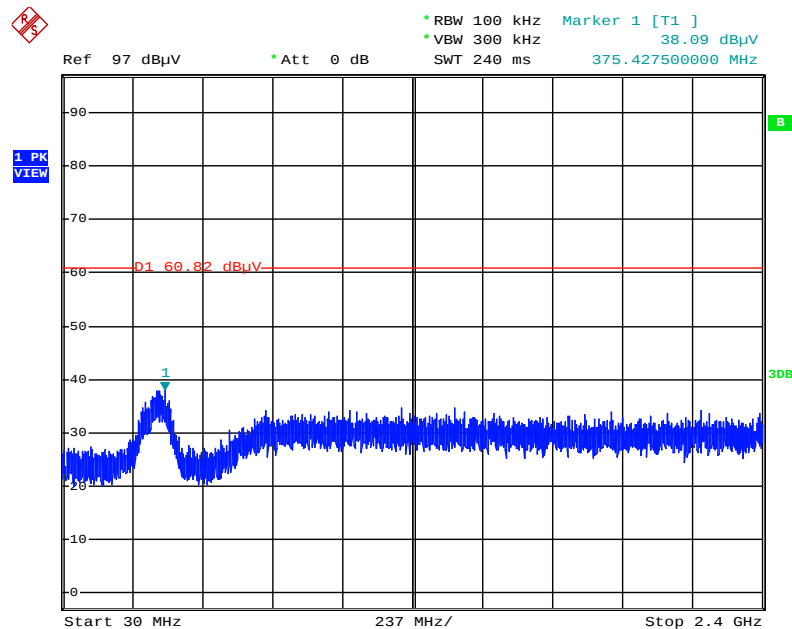
Date: 19.NOV.2015 00:17:21

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2500MHz~26500MHz (down 30dBc)



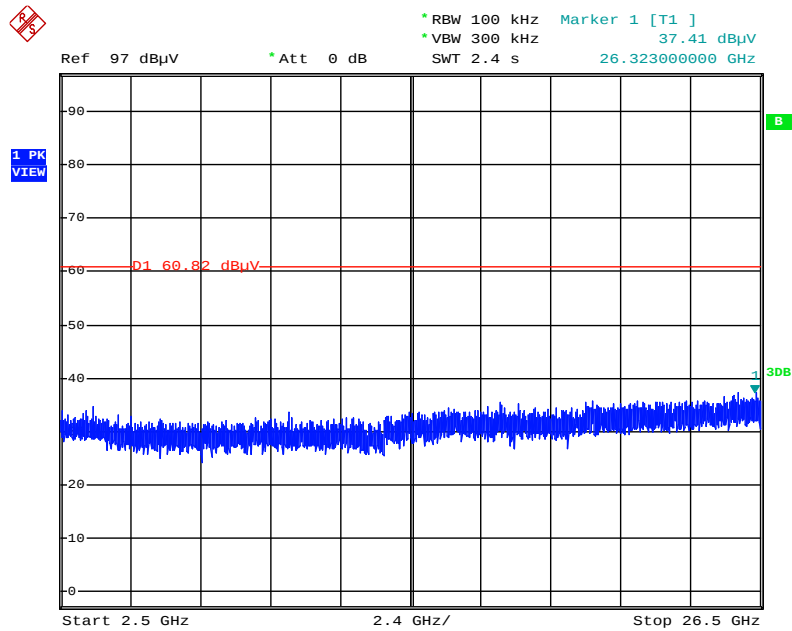
Date: 19.NOV.2015 00:17:46

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)



Date: 19.NOV.2015 00:18:29

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2500MHz~26500MHz (down 30dBc)



Date: 19.NOV.2015 00:18:12

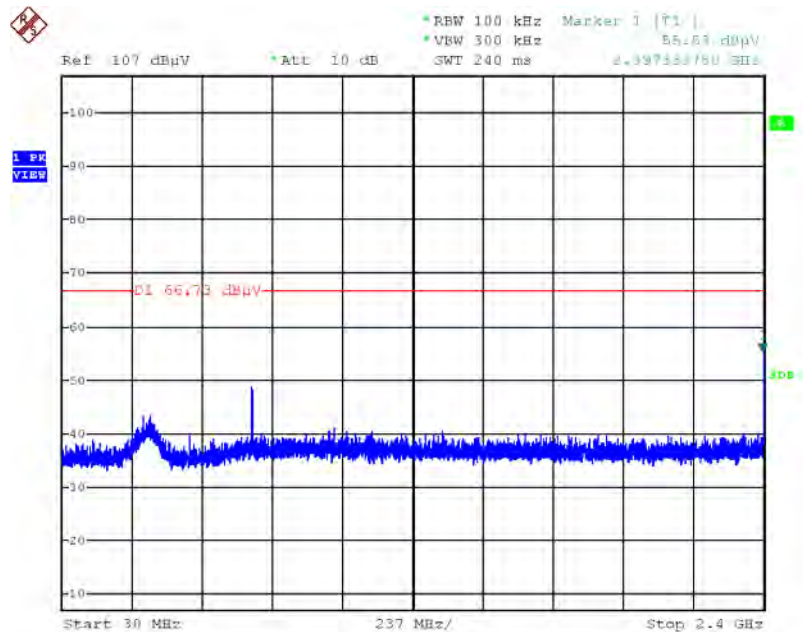
Mode 4: EUT 1 + Set 5 Panel Antenna / 7 dBi

Plot on Configuration IEEE 802.11b / Reference Level



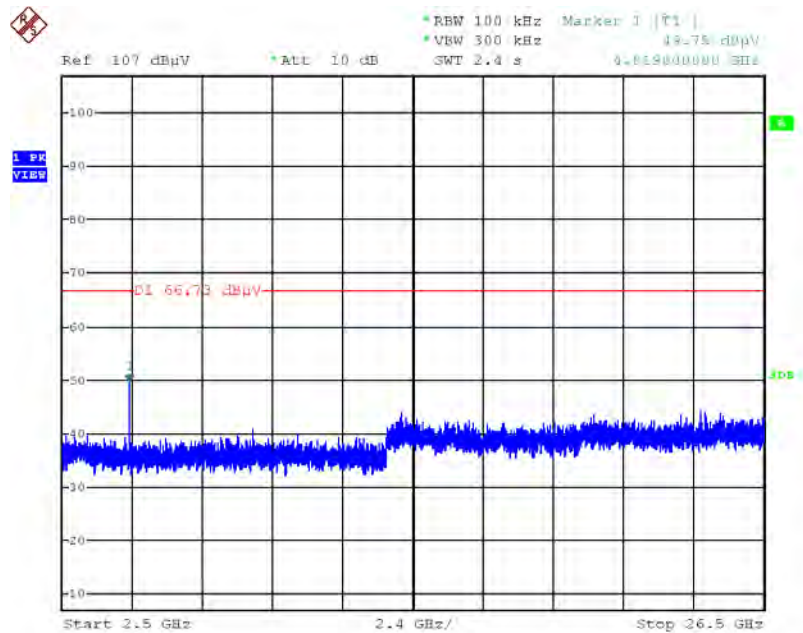
Date: 27.NOV.2015 15:37:46

Plot on Configuration IEEE 802.11b / CH 1 / 30MHz~2400MHz (down 30dBc)



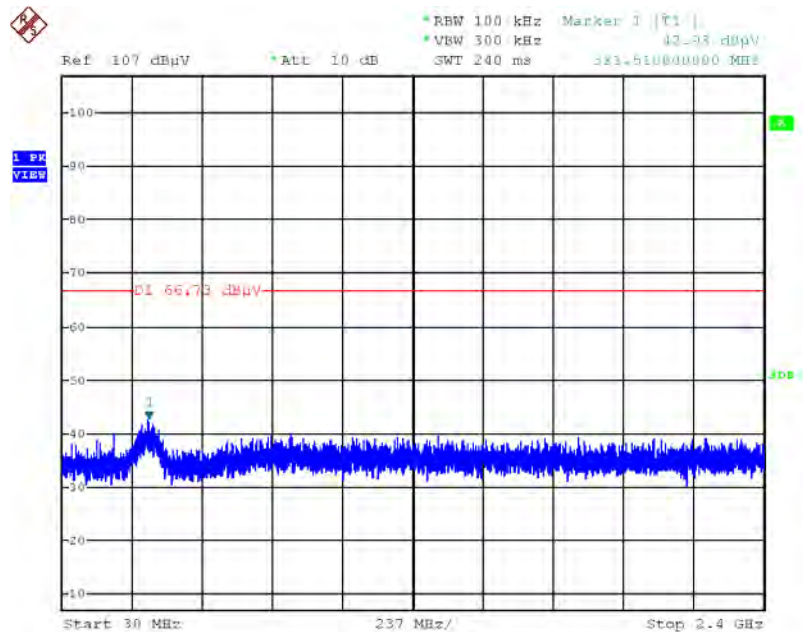
Date: 27.NOV.2015 15:40:22

Plot on Configuration IEEE 802.11b / CH 1 / 2500MHz~26500MHz (down 30dBc)



Date: 27.NOV.2015 15:40:46

Plot on Configuration IEEE 802.11b / CH 11 / 30MHz~2400MHz (down 30dBc)

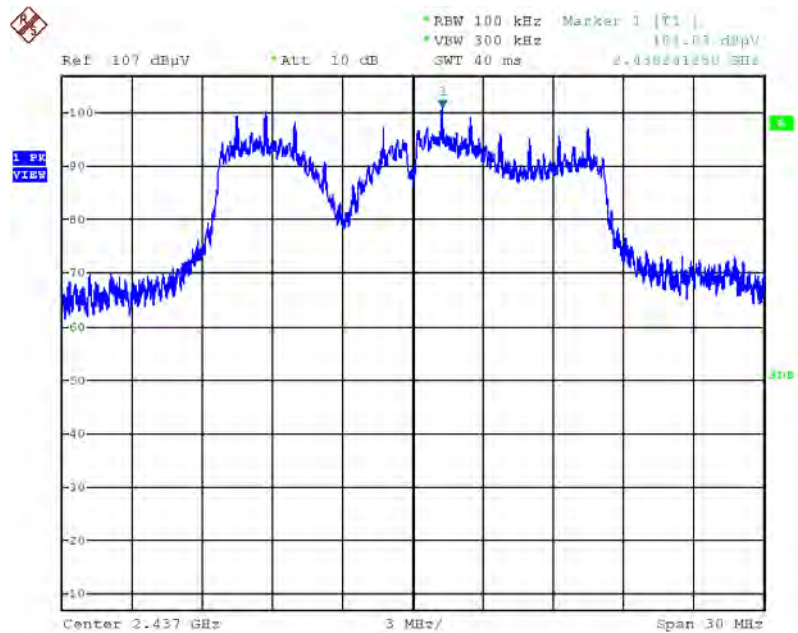


Date: 27.NOV.2015 15:41:51



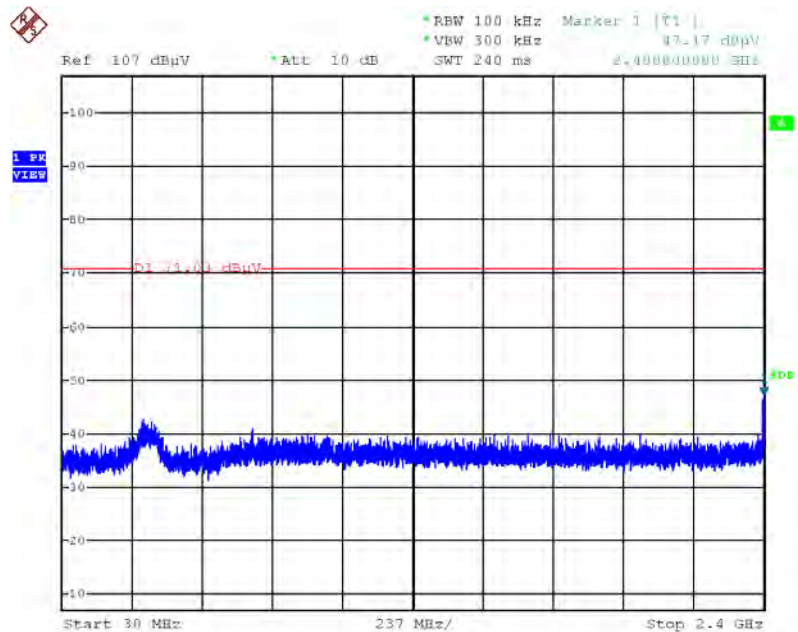
Report Format Version: Rev. 02

Plot on Configuration IEEE 802.11g / Reference Level



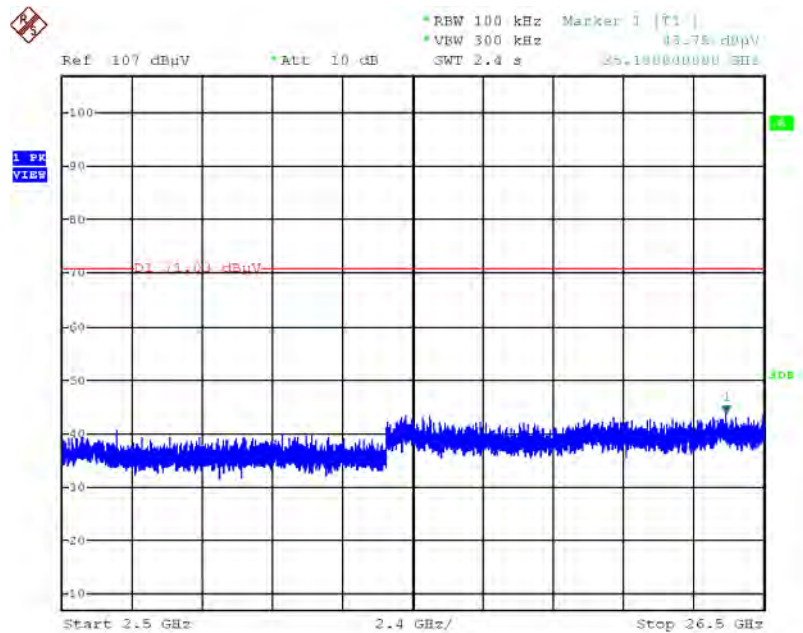
Date: 27.NOV.2015 15:44:05

Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)



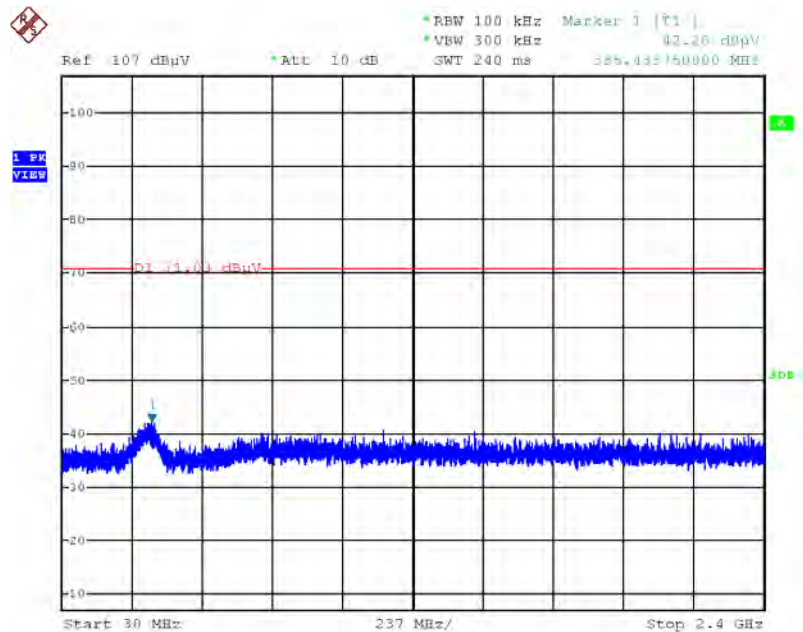
Date: 27.NOV.2015 15:45:11

Plot on Configuration IEEE 802.11g / CH 1 / 2500MHz~26500MHz (down 30dBc)



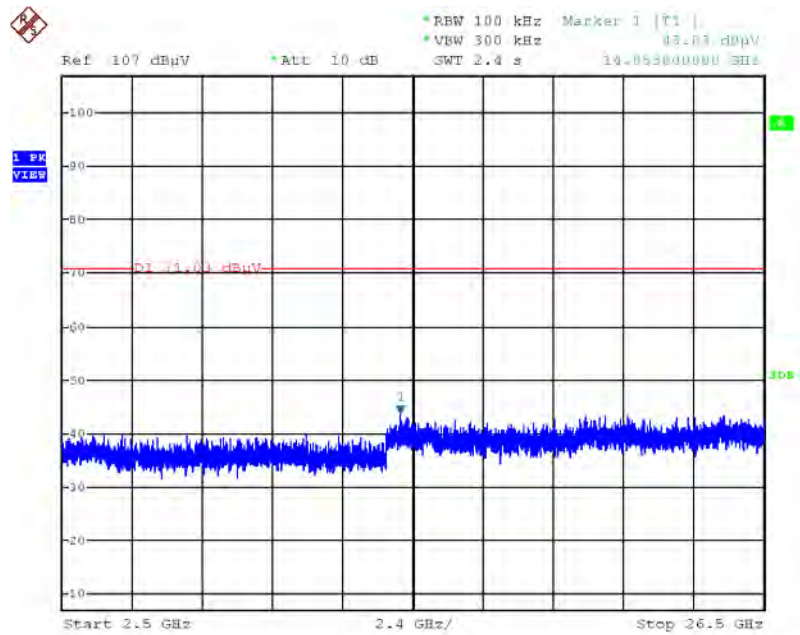
Date: 27.NOV.2015 15:45:35

Plot on Configuration IEEE 802.11g / CH 11 / 30MHz~2400MHz (down 30dBc)



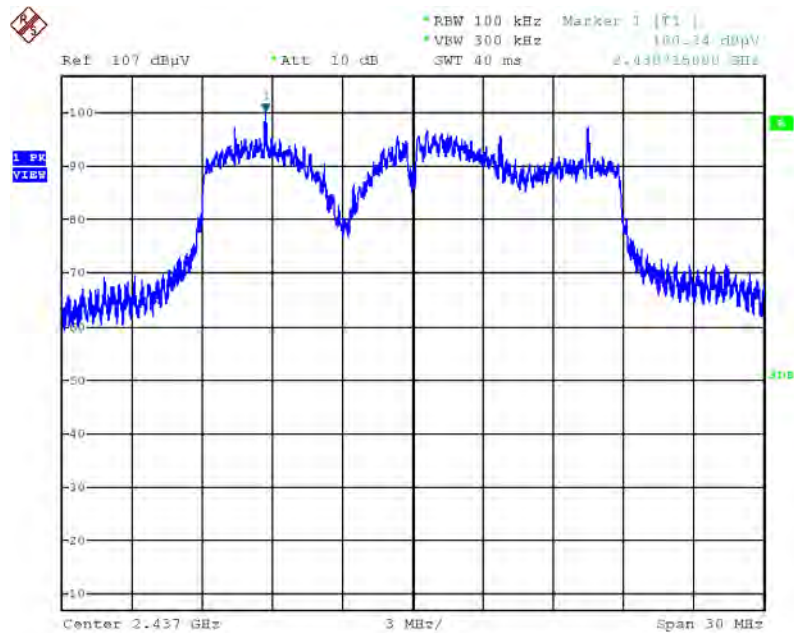
Date: 27.NOV.2015 15:46:26

Plot on Configuration IEEE 802.11g / CH 11 / 2500MHz~26500MHz (down 30dBc)



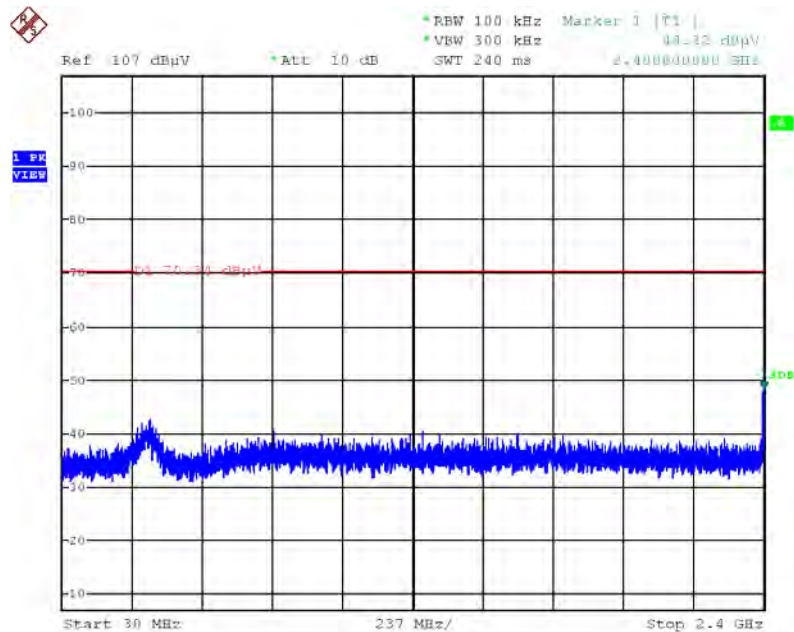
Date: 27.NOV.2015 15:46:50

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Reference Level



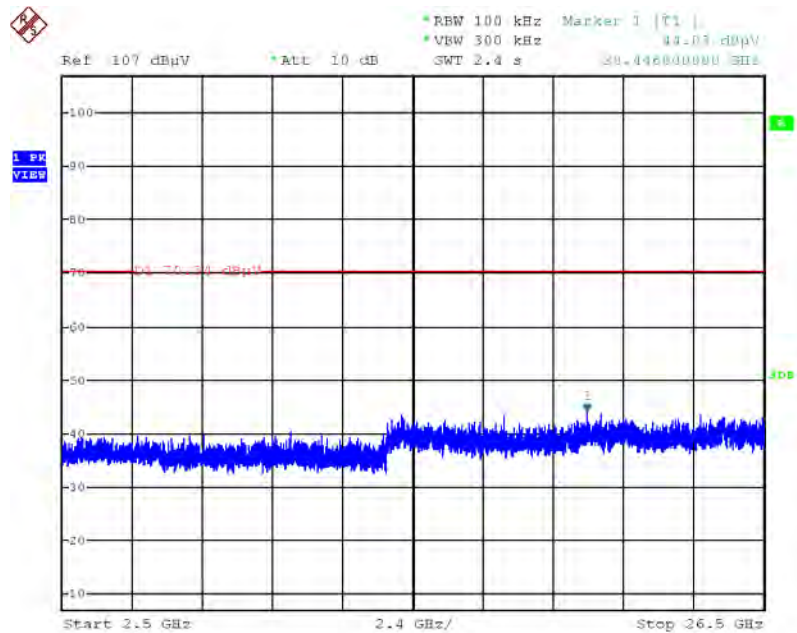
Date: 27.NOV.2015 15:47:45

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



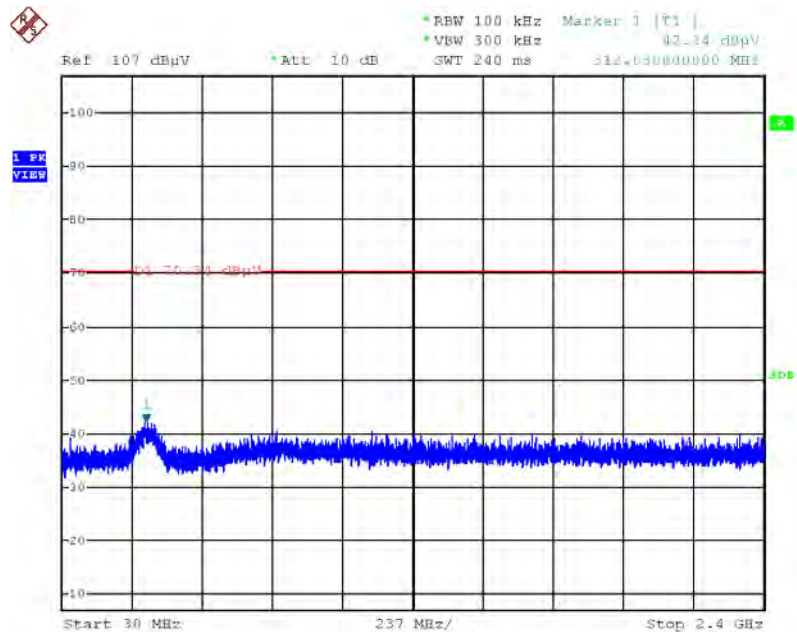
Date: 27.NOV.2015 15:48:34

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2500MHz~26500MHz (down 30dBc)



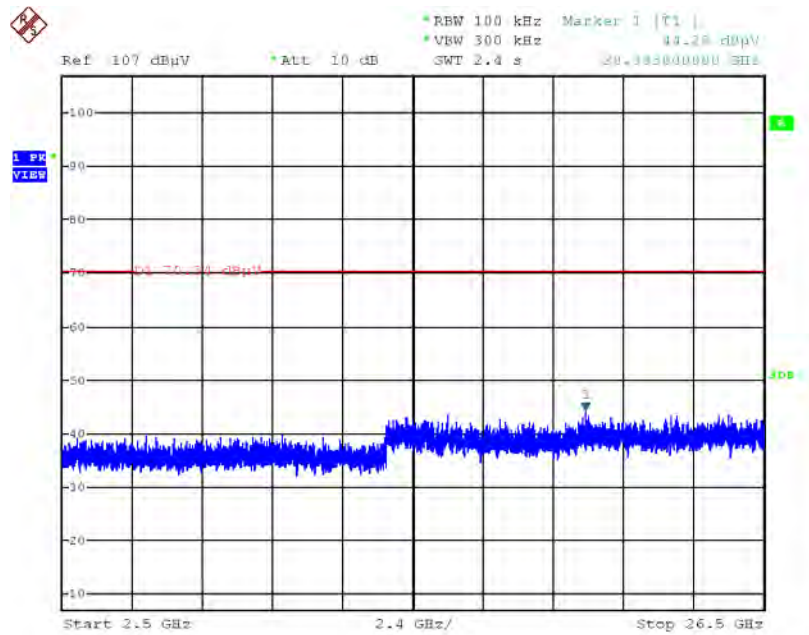
Date: 27.NOV.2015 15:48:57

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



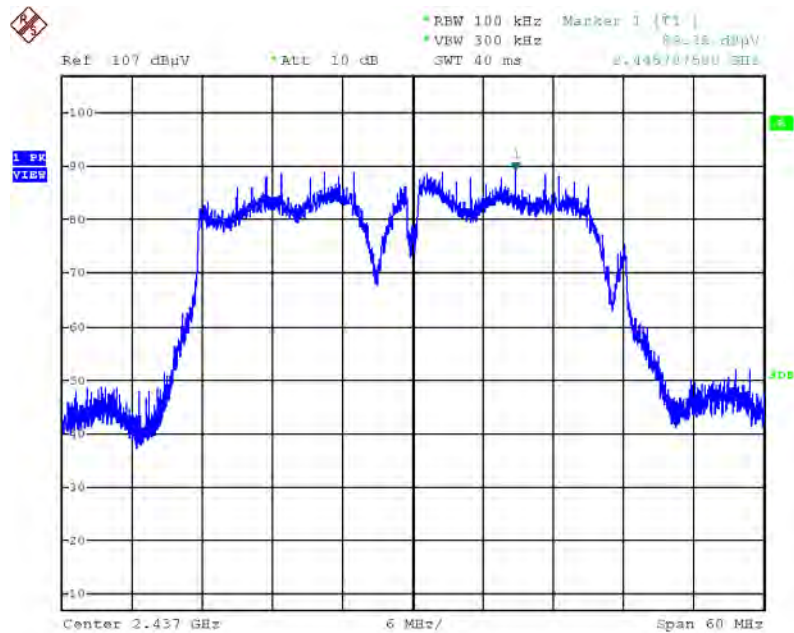
Date: 27.NOV.2015 15:49:40

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2500MHz~26500MHz (down 30dBc)



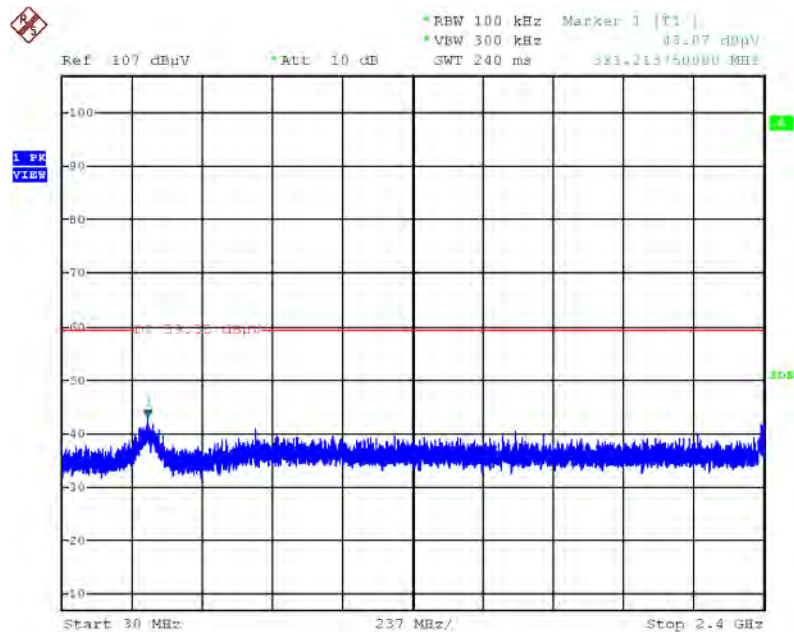
Date: 27.NOV.2015 15:50:41

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



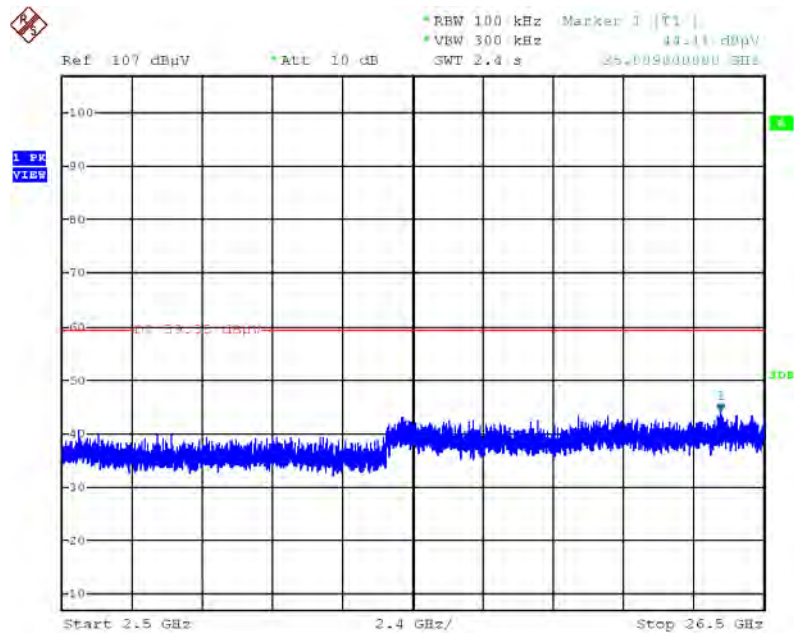
Date: 27.NOV.2015 15:51:42

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



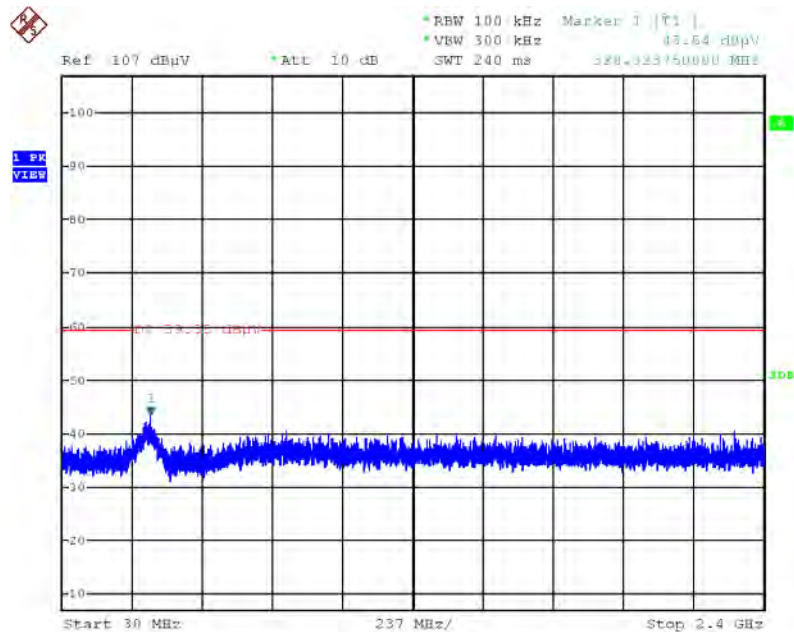
Date: 27.NOV.2015 15:52:34

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2500MHz~26500MHz (down 30dBc)



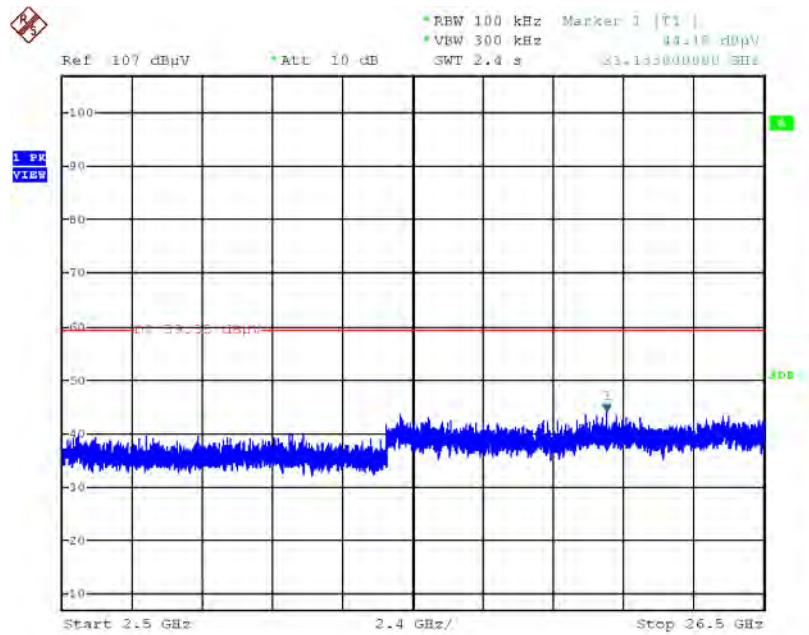
Date: 27.NOV.2015 15:53:03

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)



Date: 27.NOV.2015 15:53:43

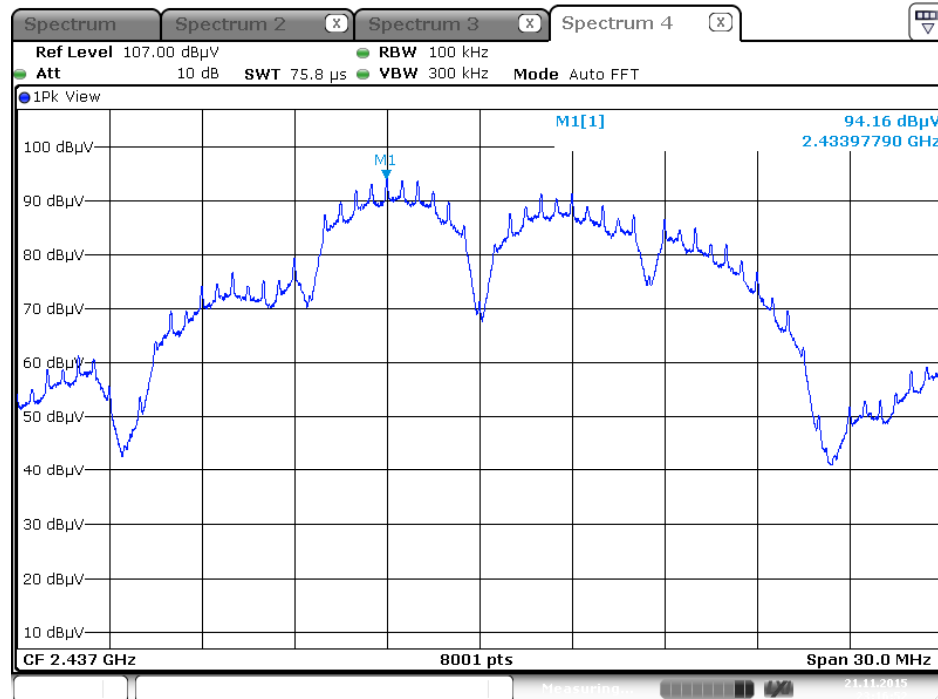
Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2500MHz~26500MHz (down 30dBc)



Date: 27.NOV.2015 15:54:07

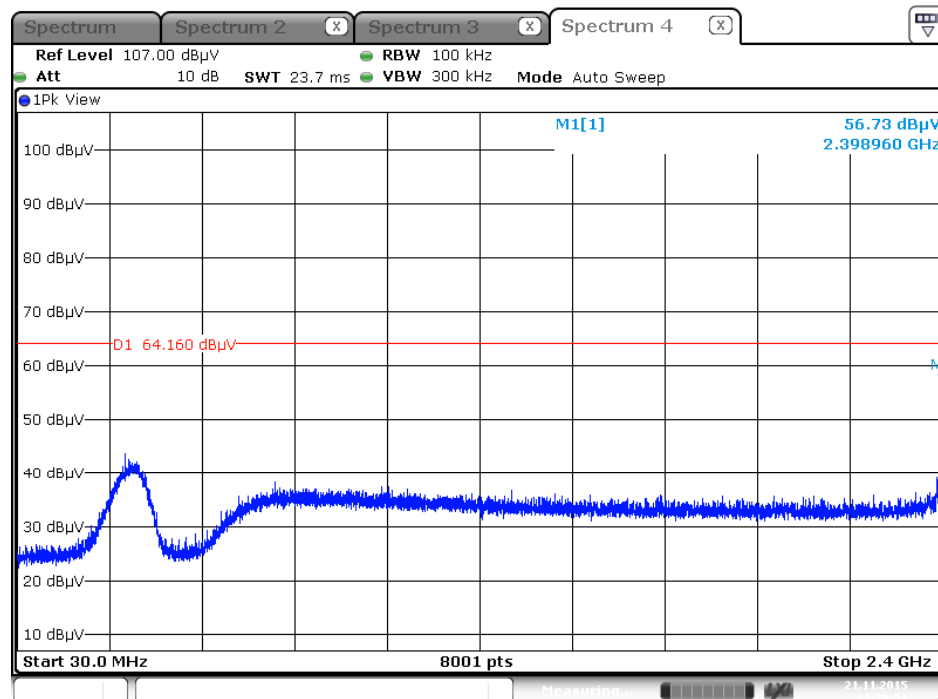
Mode 5: EUT 1 + Set 6 Sector Antenna / 5 dBi

Plot on Configuration IEEE 802.11b / Reference Level



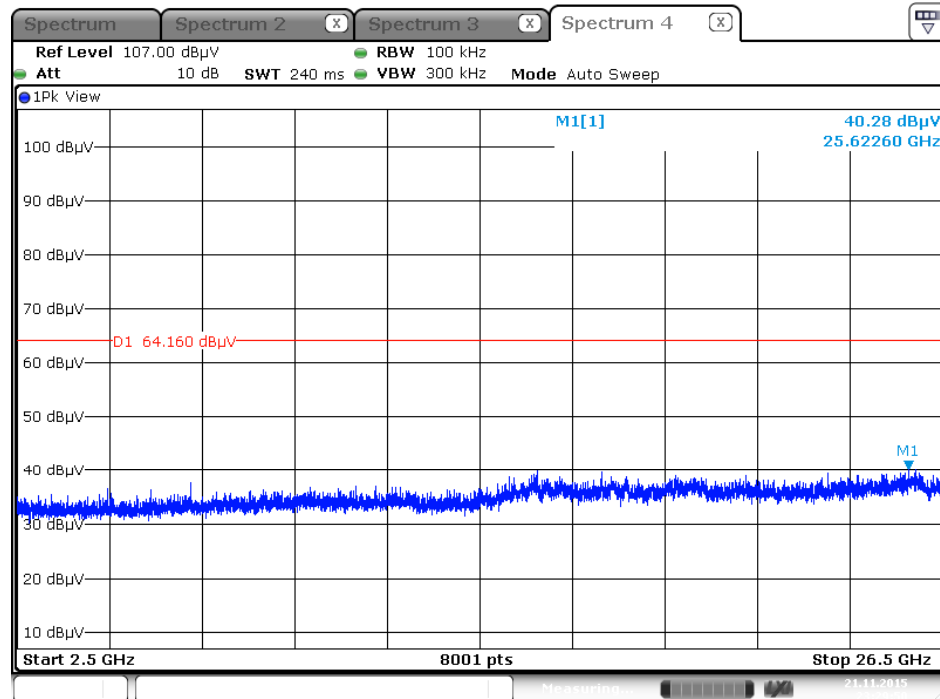
Date: 21.10.2015 23:16:52

Plot on Configuration IEEE 802.11b / CH 1 / 30MHz~2400MHz (down 30dBc)



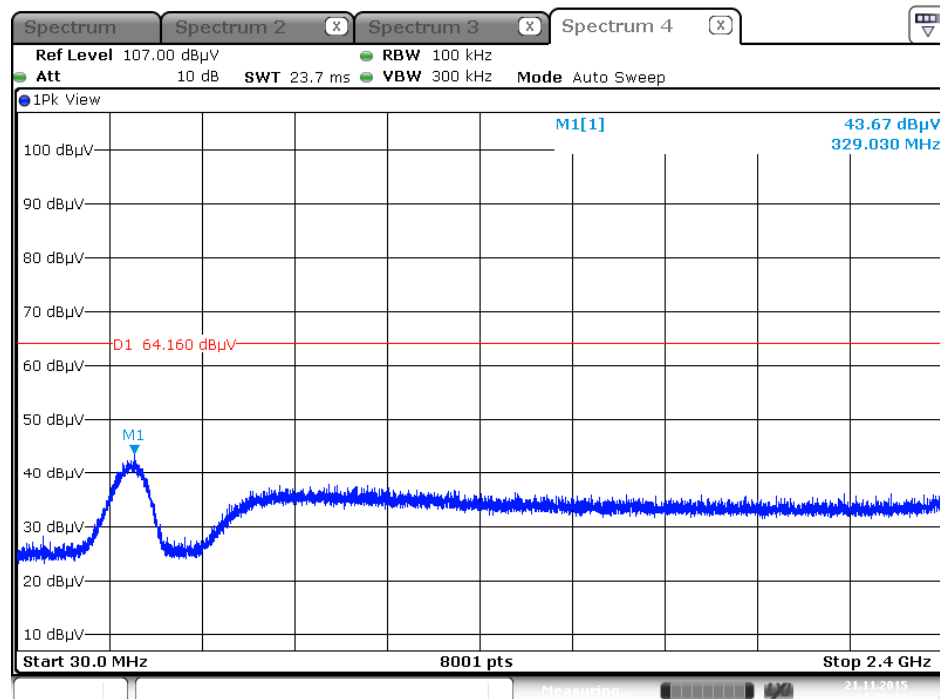
Date: 21.10.2015 23:30:52

Plot on Configuration IEEE 802.11b / CH 1 / 2500MHz~26500MHz (down 30dBc)



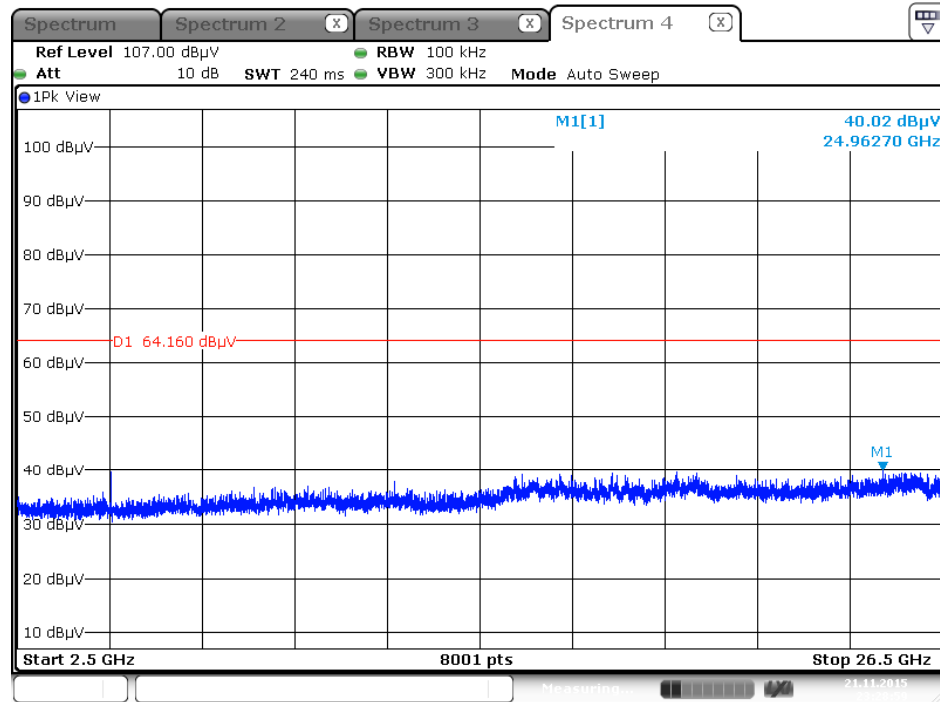
Date: 21.NOV.2015 23:29:51

Plot on Configuration IEEE 802.11b / CH 11 / 30MHz~2400MHz (down 30dBc)



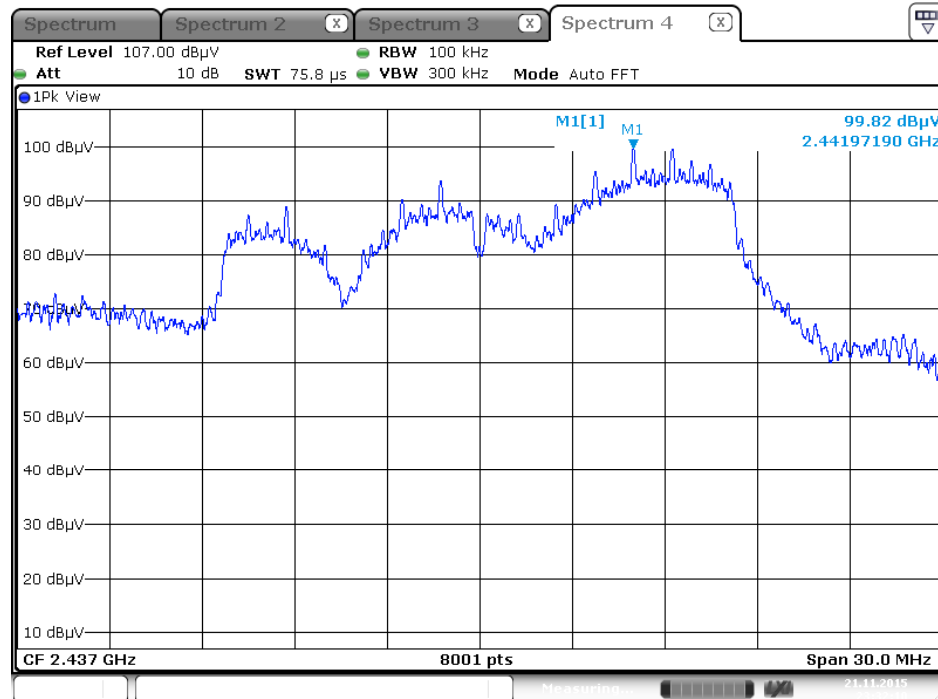
Date: 21.NOV.2015 23:28:30

Plot on Configuration IEEE 802.11b / CH 11 / 2500MHz~26500MHz (down 30dBc)

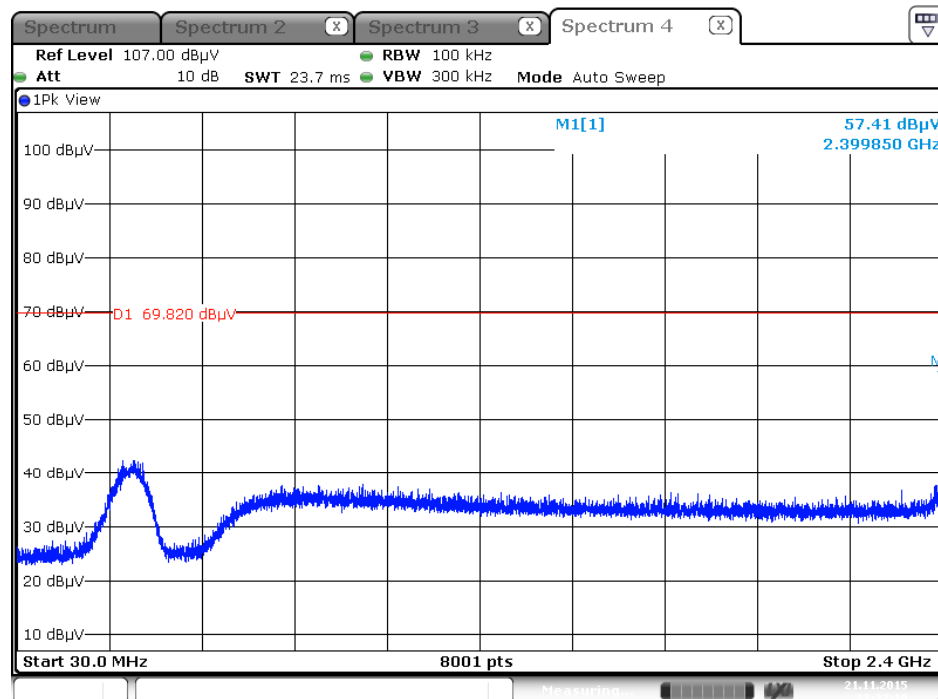


Date: 21.10.2015 23:28:59

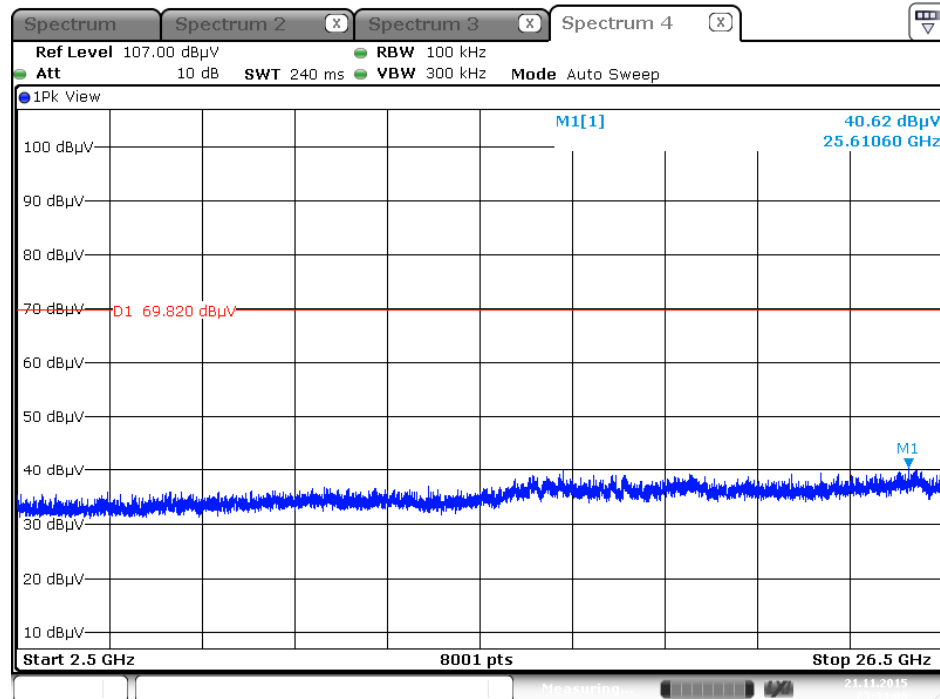
Plot on Configuration IEEE 802.11g / Reference Level



Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)

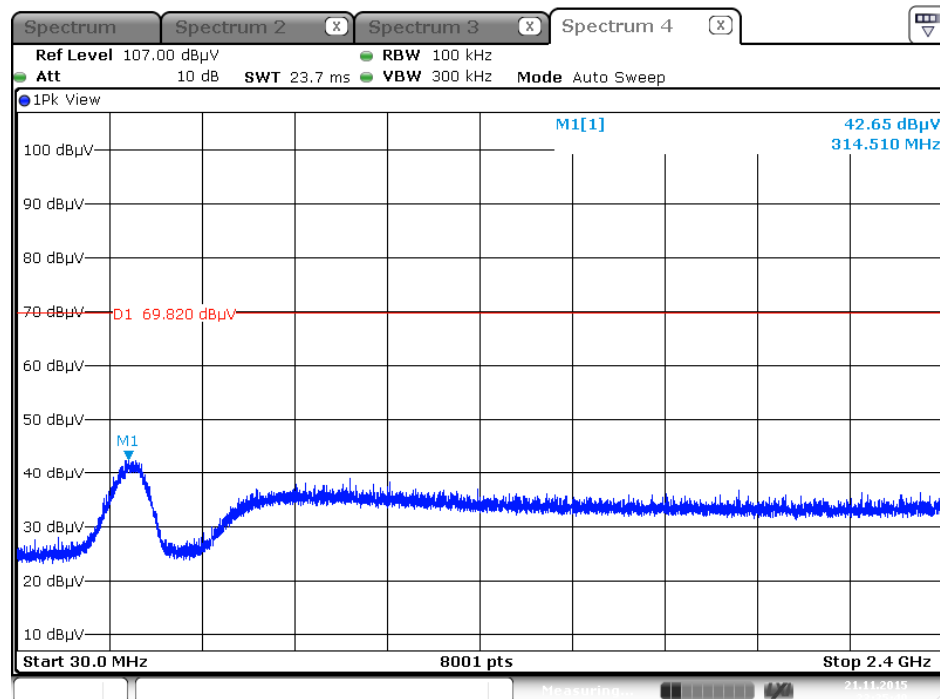


Plot on Configuration IEEE 802.11g / CH 1 / 2500MHz~26500MHz (down 30dBc)



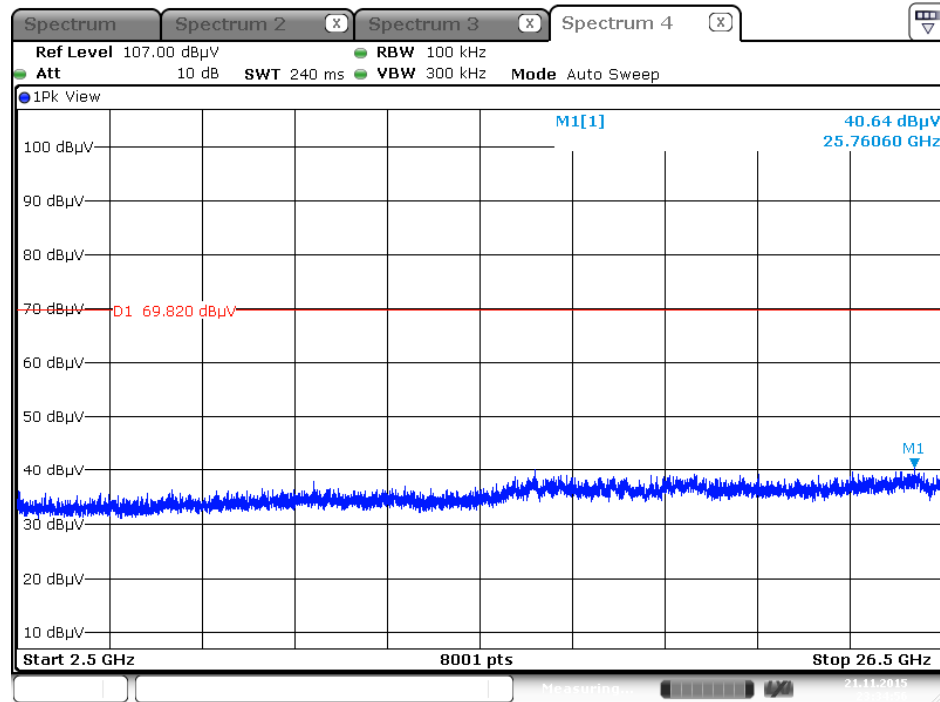
Date: 21.NOV.2015 23:34:06

Plot on Configuration IEEE 802.11g / CH 11 / 30MHz~2400MHz (down 30dBc)



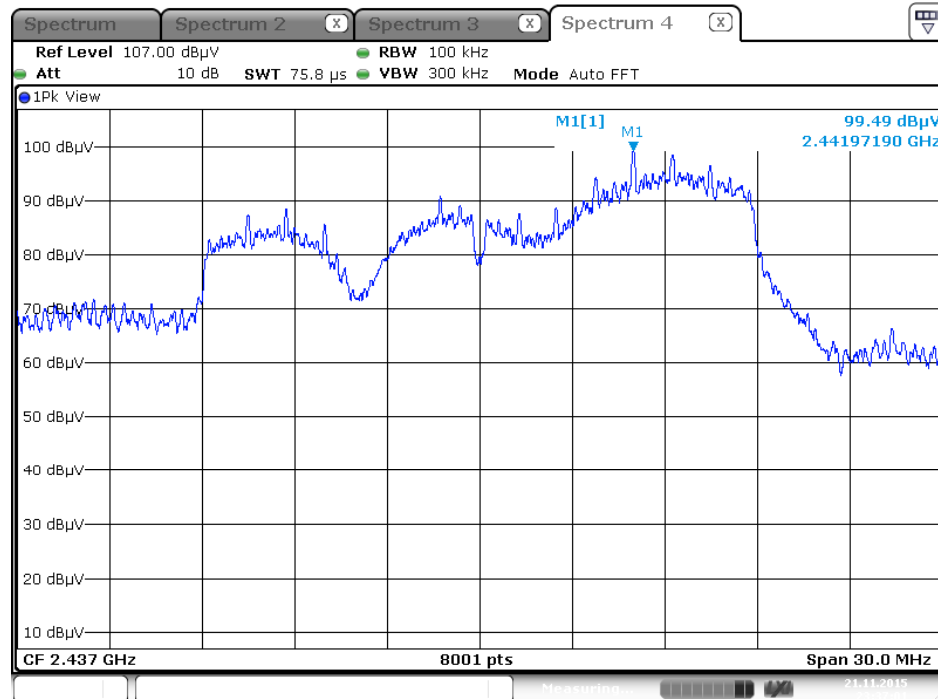
Date: 21.NOV.2015 23:35:41

Plot on Configuration IEEE 802.11g / CH 11 / 2500MHz~26500MHz (down 30dBc)

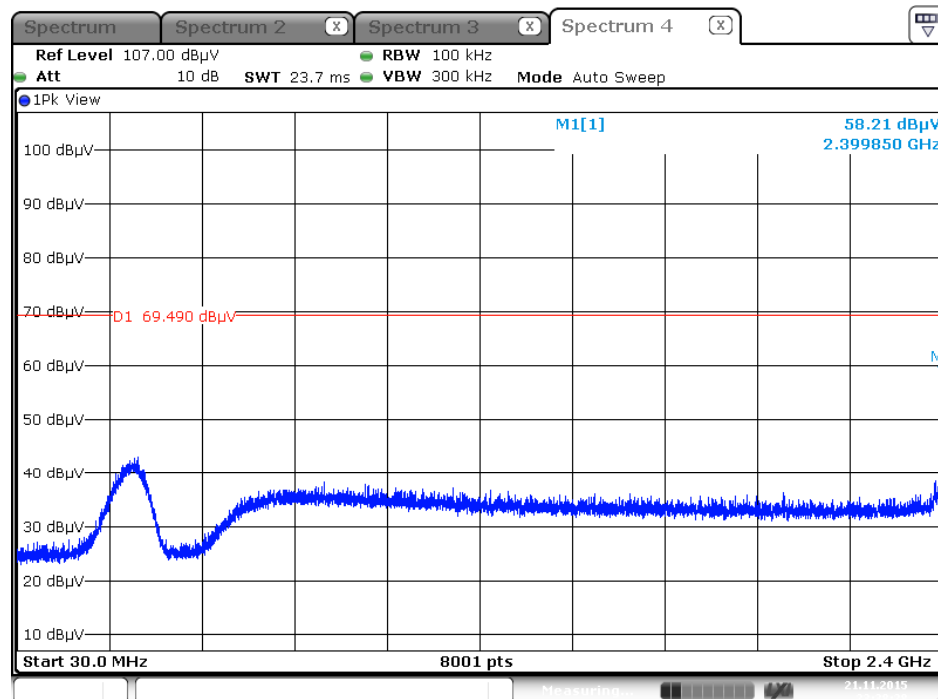


Date: 21.10.2015 23:34:55

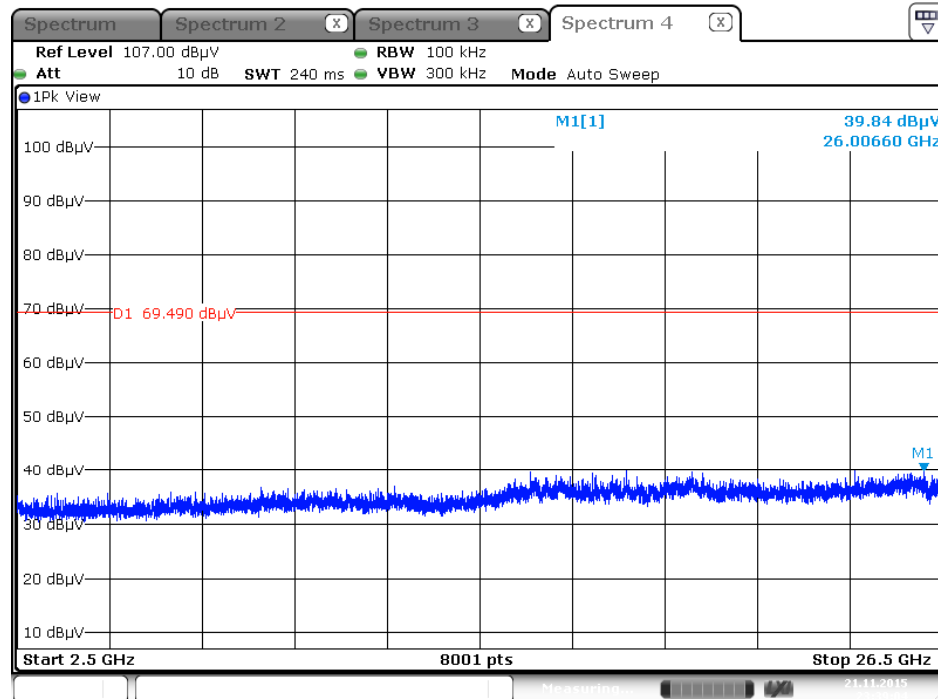
Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Reference Level



Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)

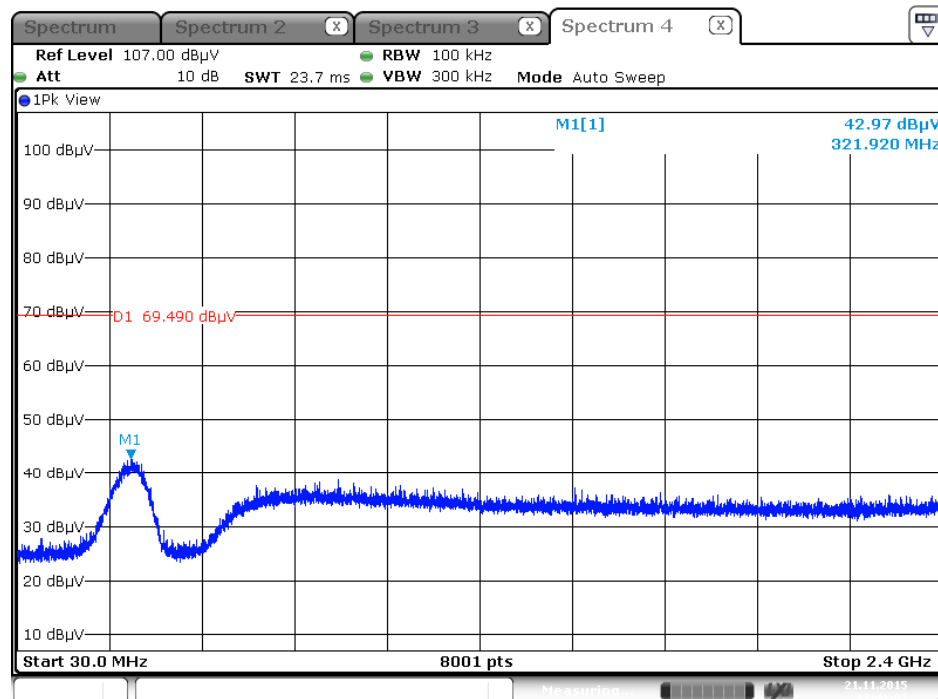


Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2500MHz~26500MHz (down 30dBc)



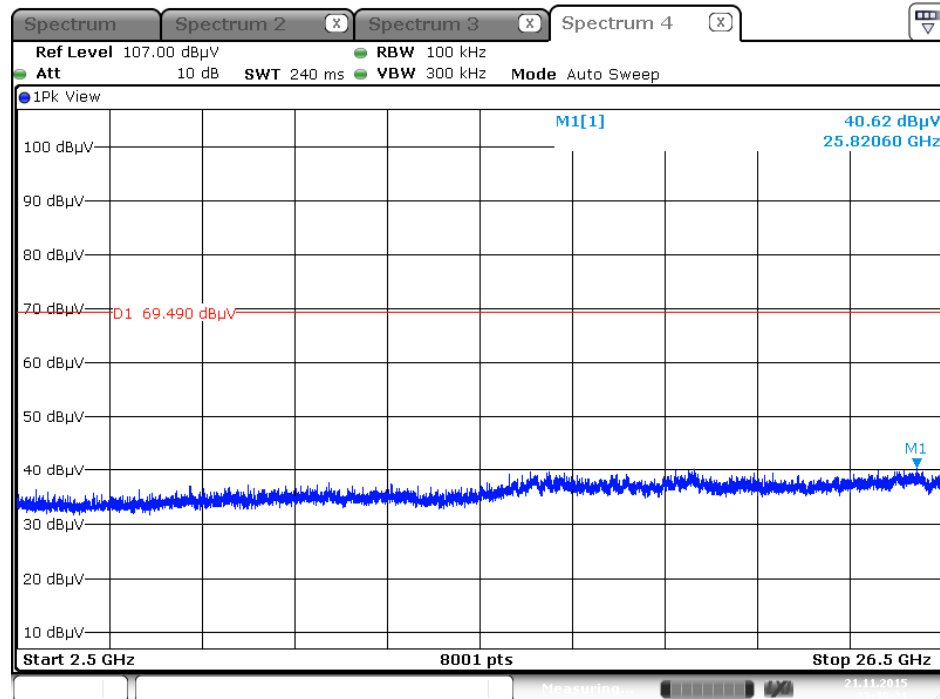
Date: 21.10.2015 23:39:04

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



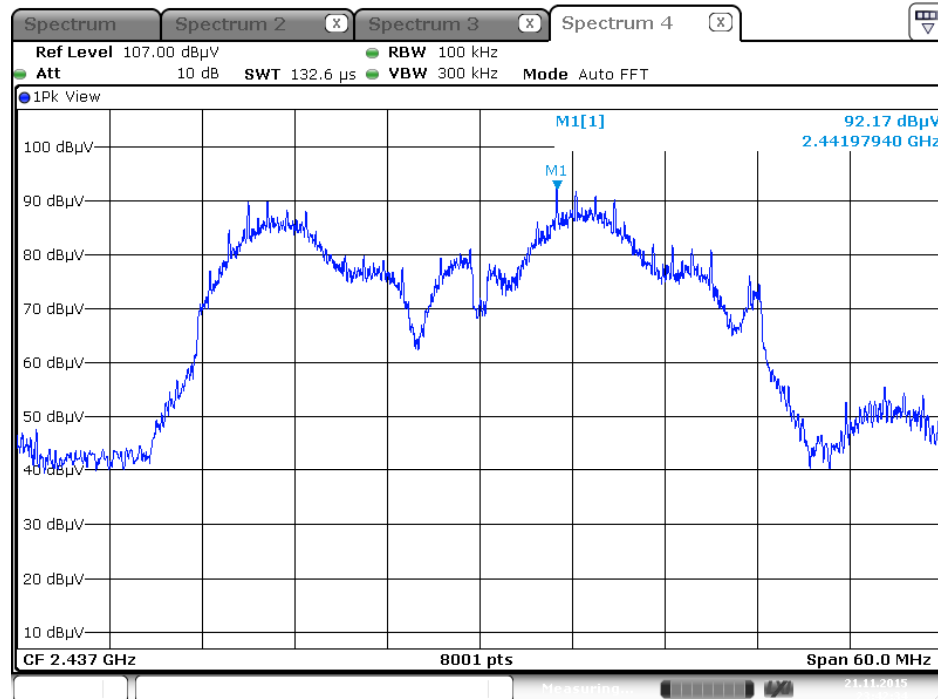
Date: 21.10.2015 23:41:02

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2500MHz~26500MHz (down 30dBc)

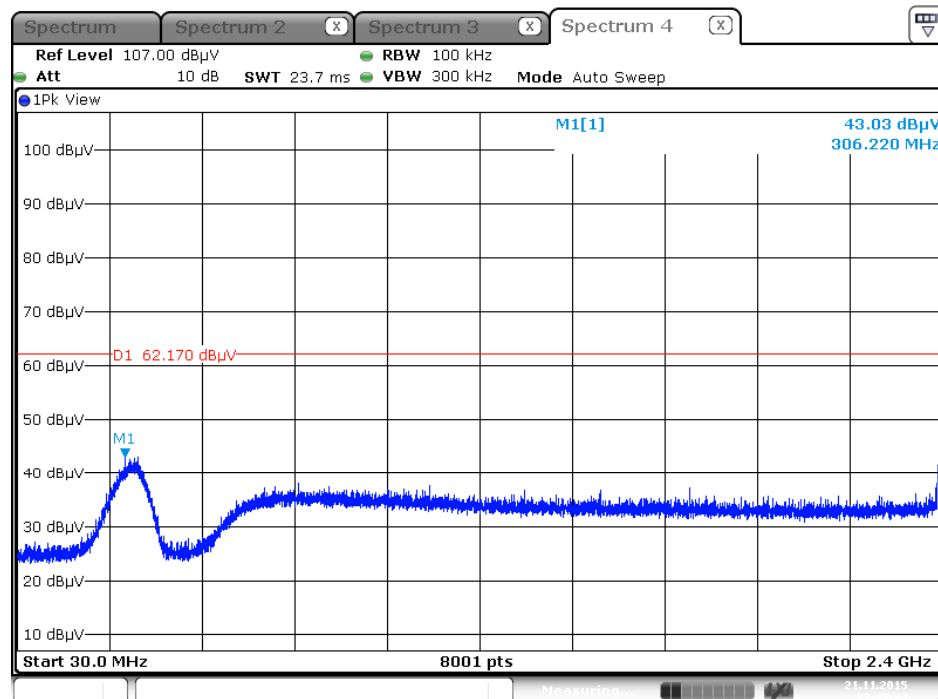


Date: 21.10.2015 23:40:21

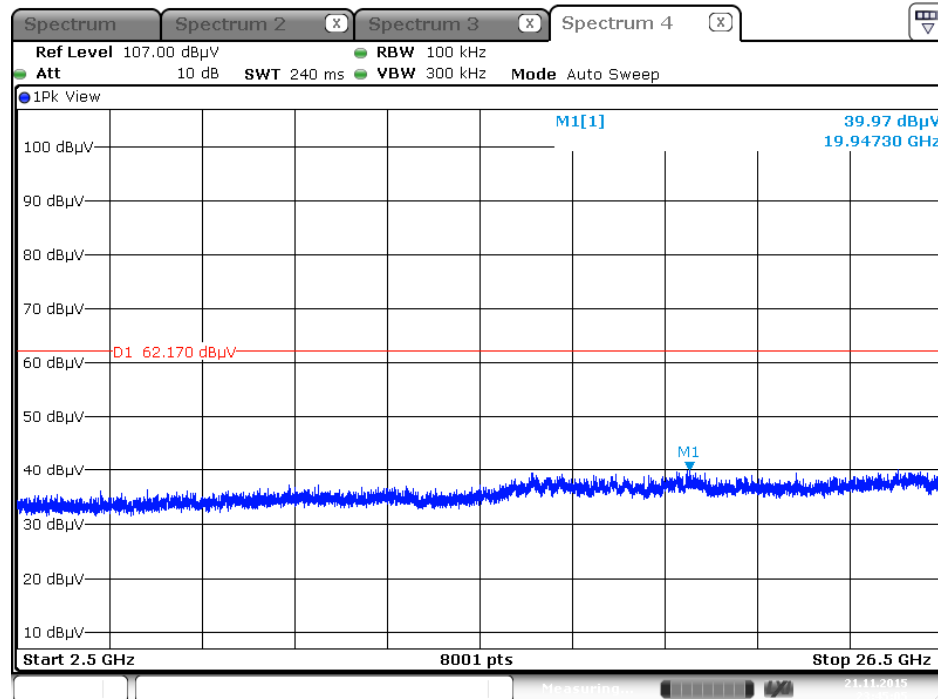
Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)

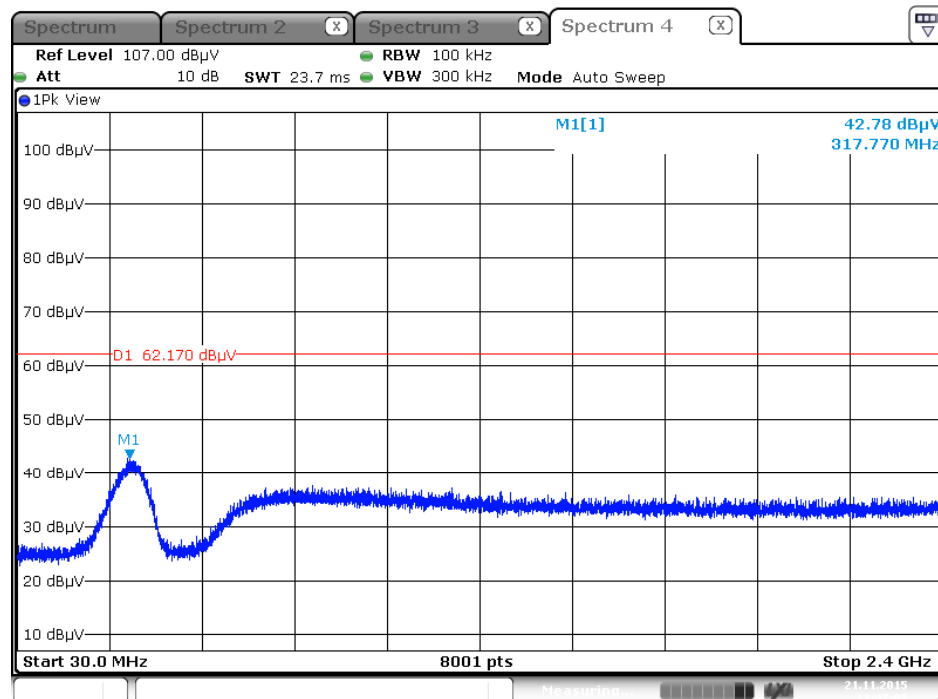


Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2500MHz~26500MHz (down 30dBc)



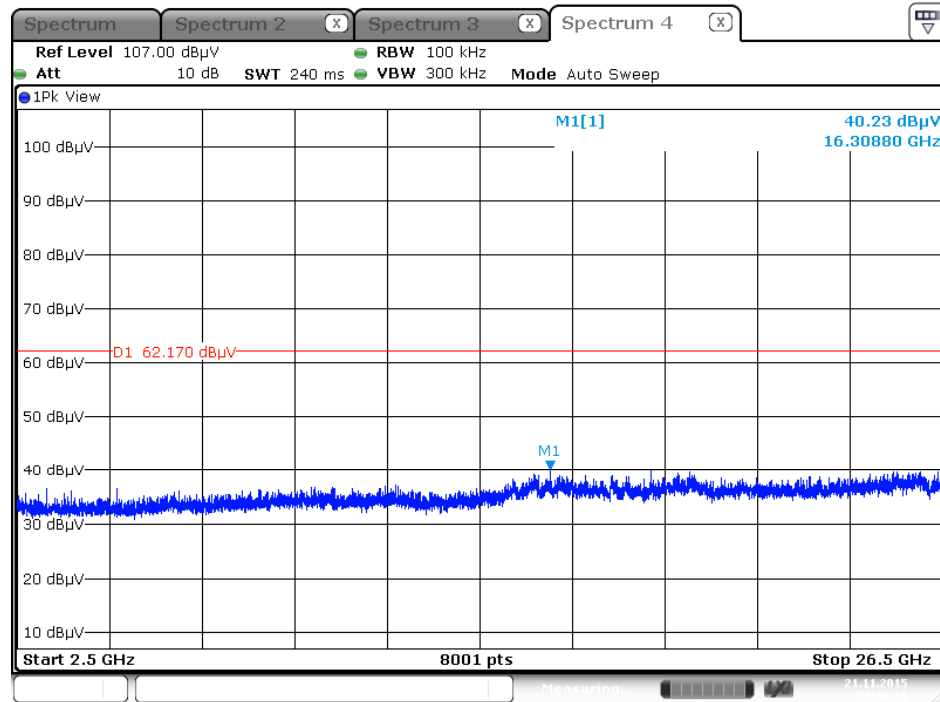
Date: 21.NOV.2015 23:45:05

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)



Date: 21.NOV.2015 23:47:03

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2500MHz~26500MHz (down 30dBc)



Date: 21.NOV.2015 23:46:11

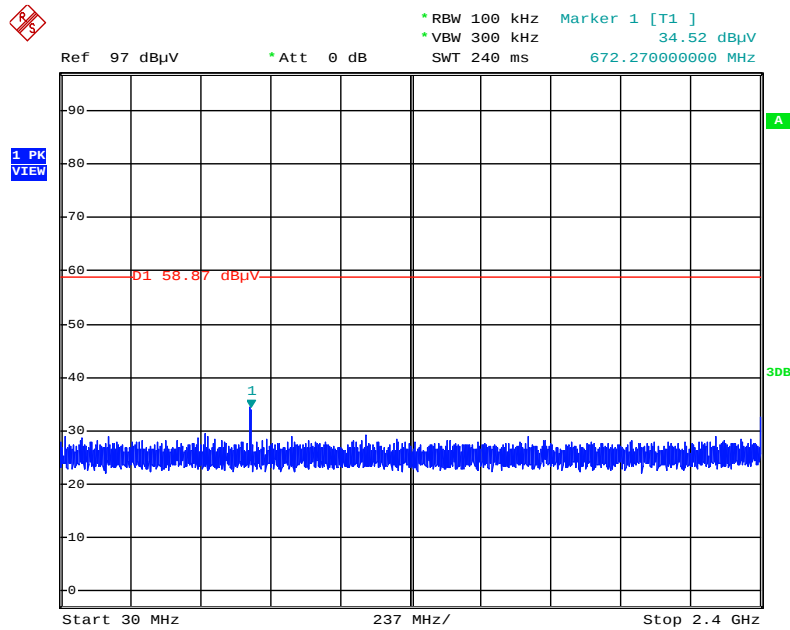
Mode 6: EUT 1 + Set 8 Sector Antenna / 13 dBi

Plot on Configuration IEEE 802.11b / Reference Level



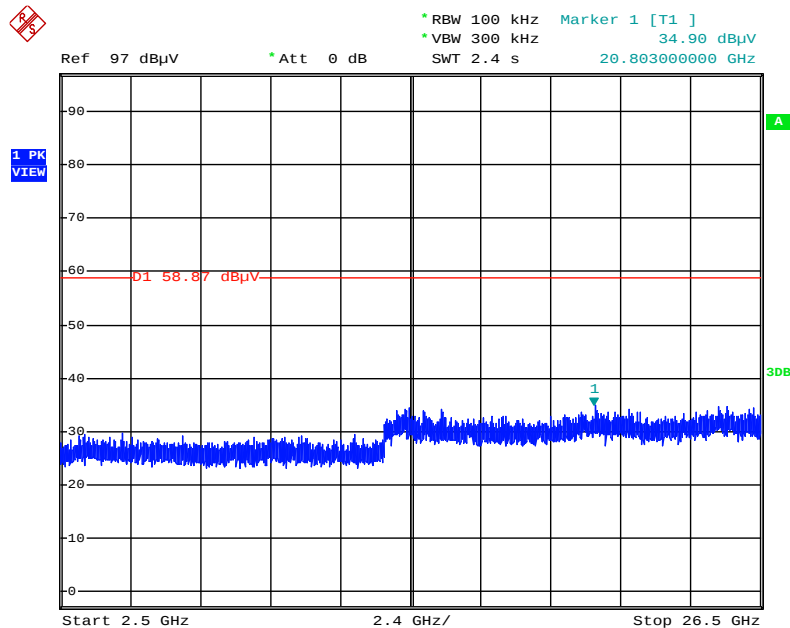
Date: 11.NOV.2015 01:34:02

Plot on Configuration IEEE 802.11b / CH 1 / 30MHz~2400MHz (down 30dBc)



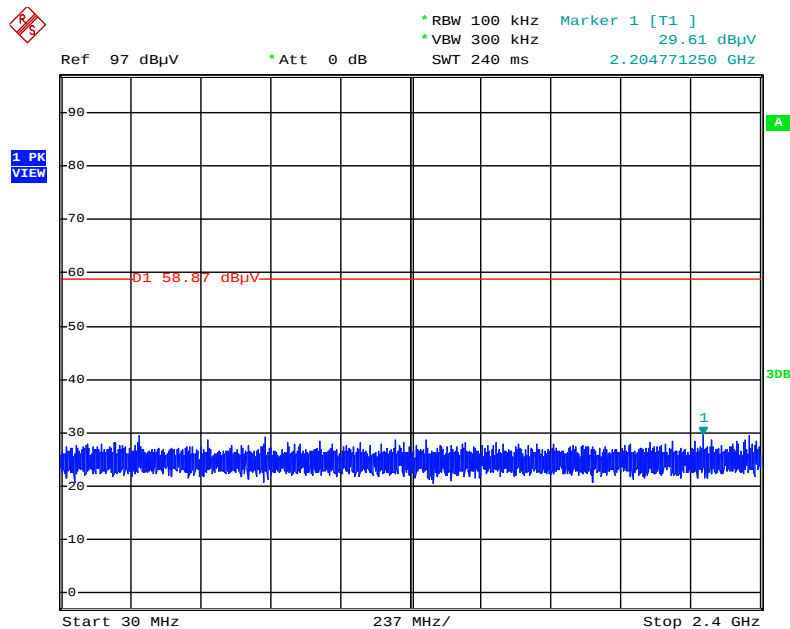
Date: 11.NOV.2015 01:35:02

Plot on Configuration IEEE 802.11b / CH 1 / 2500MHz~26500MHz (down 30dBc)



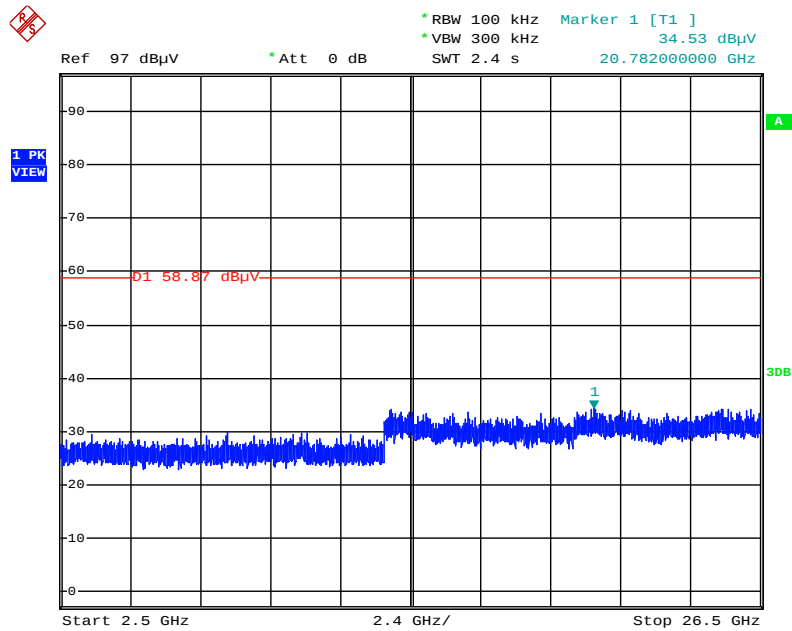
Date: 11.NOV.2015 01:35:34

Plot on Configuration IEEE 802.11b / CH 11 / 30MHz~2400MHz (down 30dBc)



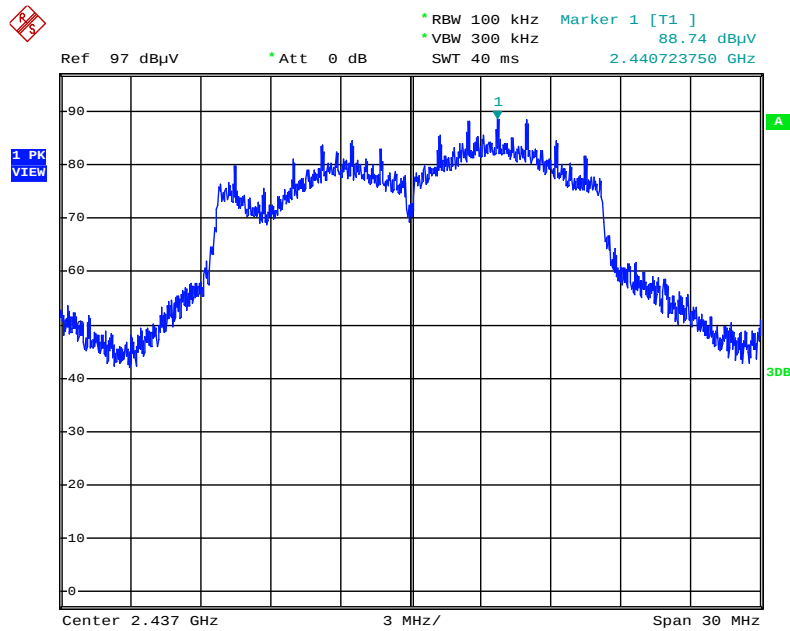
Date: 11.NOV.2015 01:36:22

Plot on Configuration IEEE 802.11b / CH 11 / 2500MHz~26500MHz (down 30dBc)



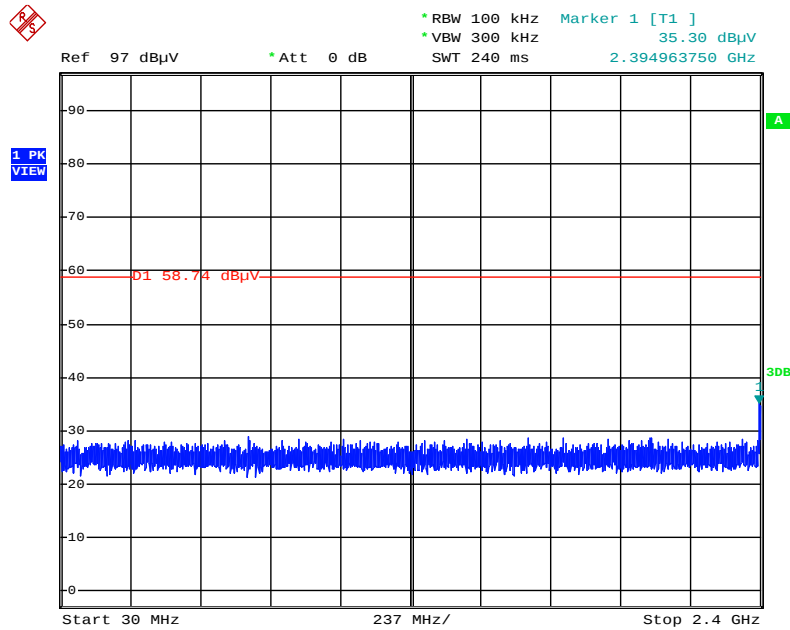
Date: 11.NOV.2015 01:36:47

Plot on Configuration IEEE 802.11g / Reference Level



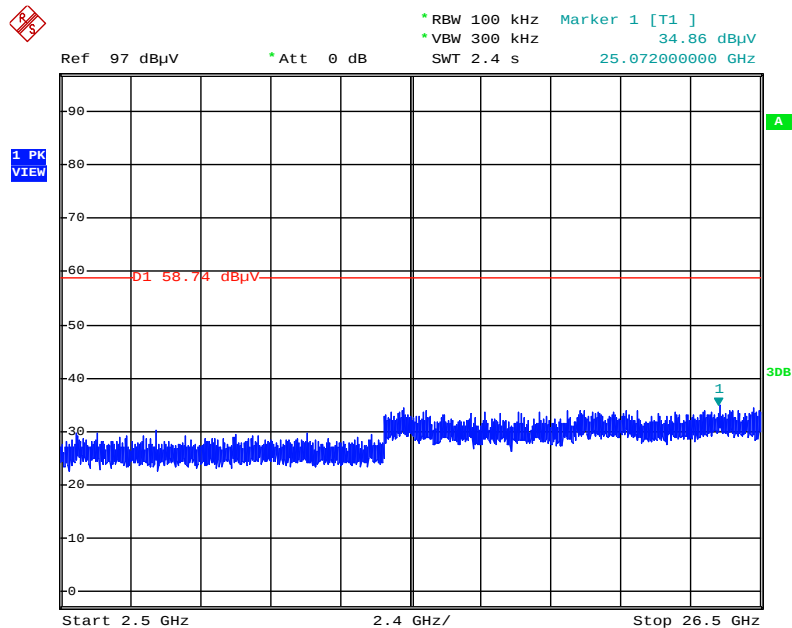
Date: 11.NOV.2015 01:38:49

Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)



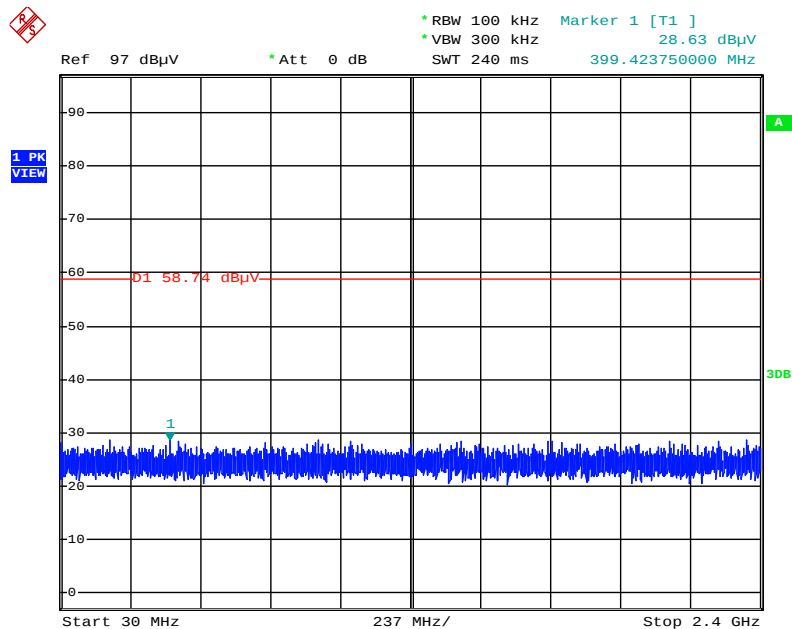
Date: 11.NOV.2015 01:39:55

Plot on Configuration IEEE 802.11g / CH 1 / 2500MHz~26500MHz (down 30dBc)



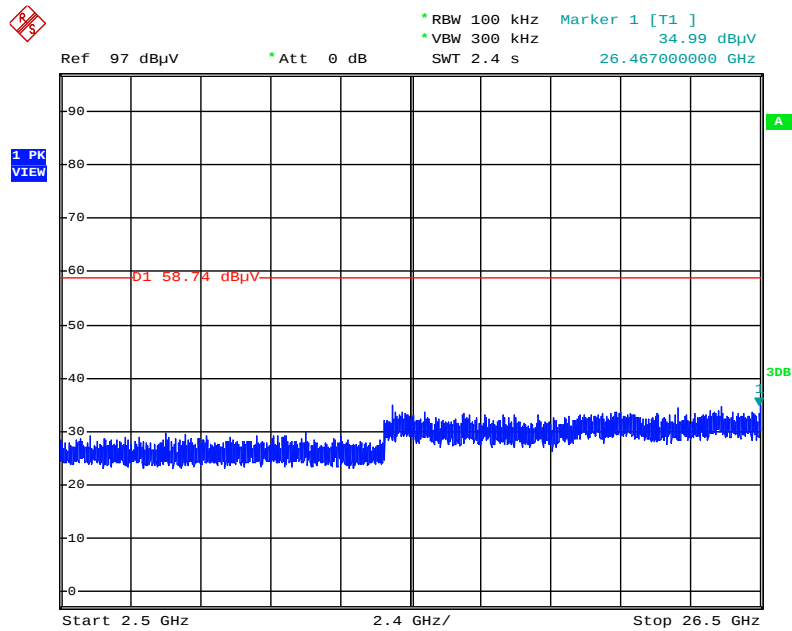
Date: 11.NOV.2015 01:40:24

Plot on Configuration IEEE 802.11g / CH 11 / 30MHz~2400MHz (down 30dBc)



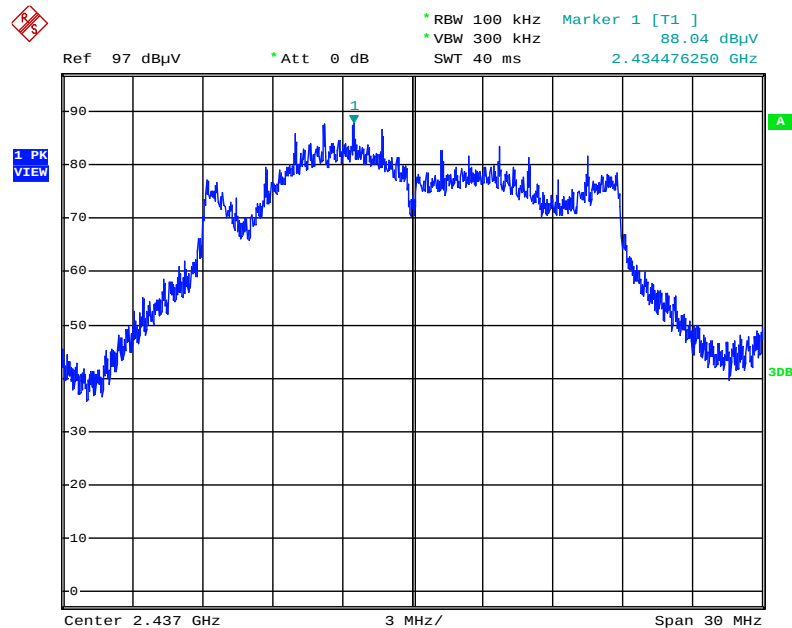
Date: 11.NOV.2015 01:41:07

Plot on Configuration IEEE 802.11g / CH 11 / 2500MHz~26500MHz (down 30dBc)



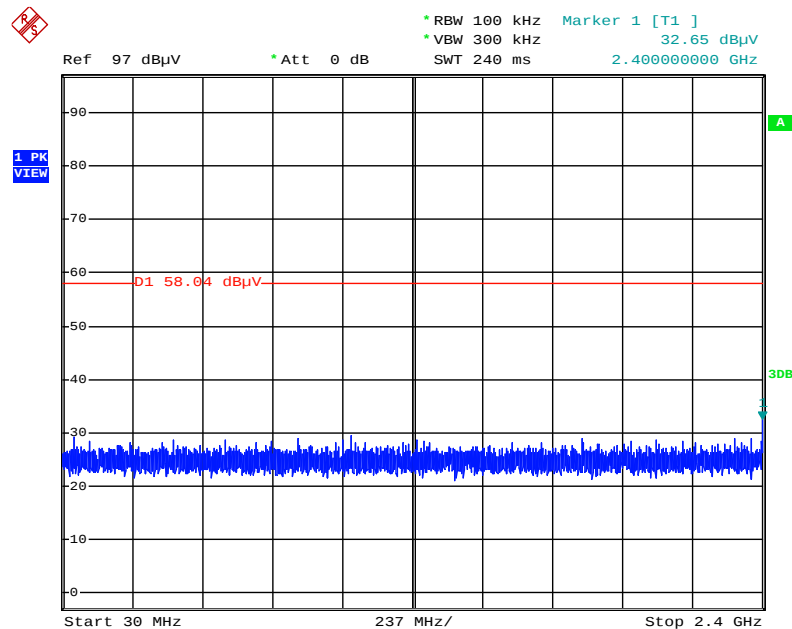
Date: 11.NOV.2015 01:41:31

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Reference Level



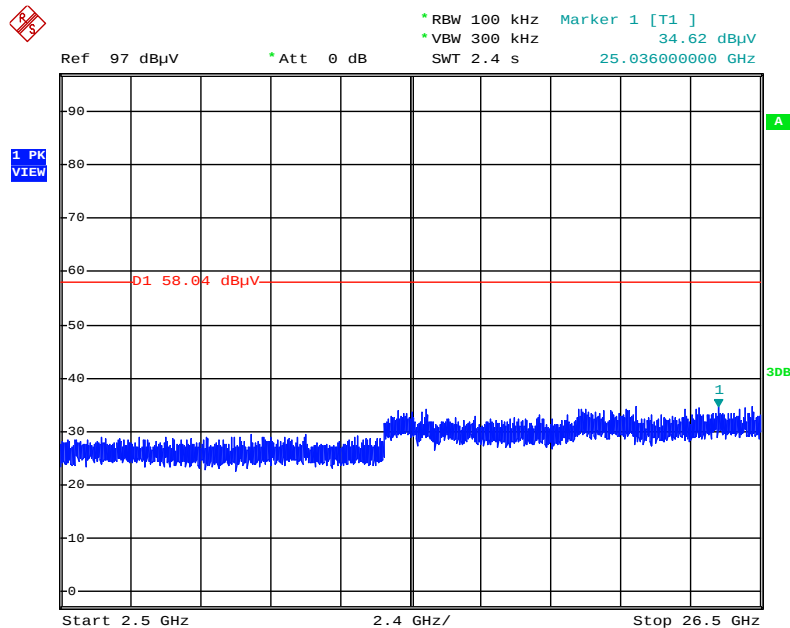
Date: 11.NOV.2015 01:43:10

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



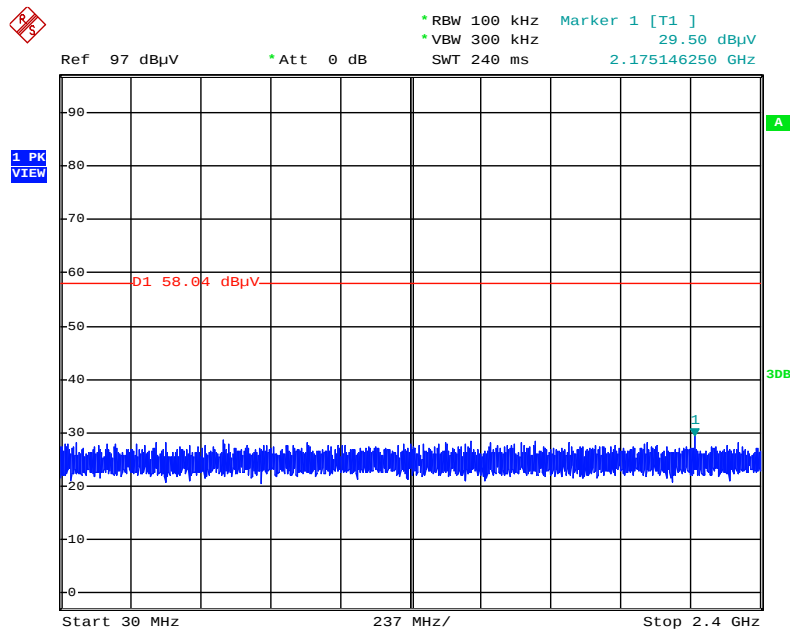
Date: 11.NOV.2015 01:44:11

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2500MHz~26500MHz (down 30dBc)



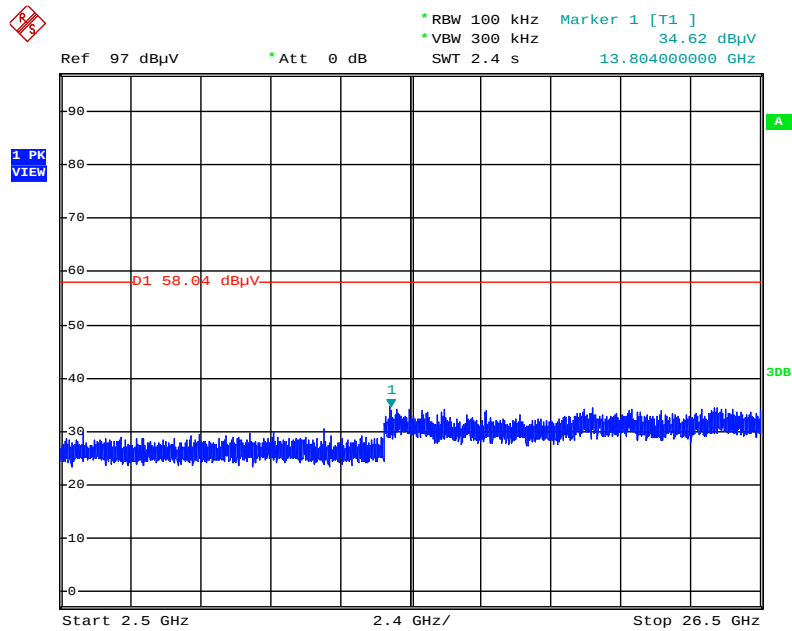
Date: 11.NOV.2015 01:44:44

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



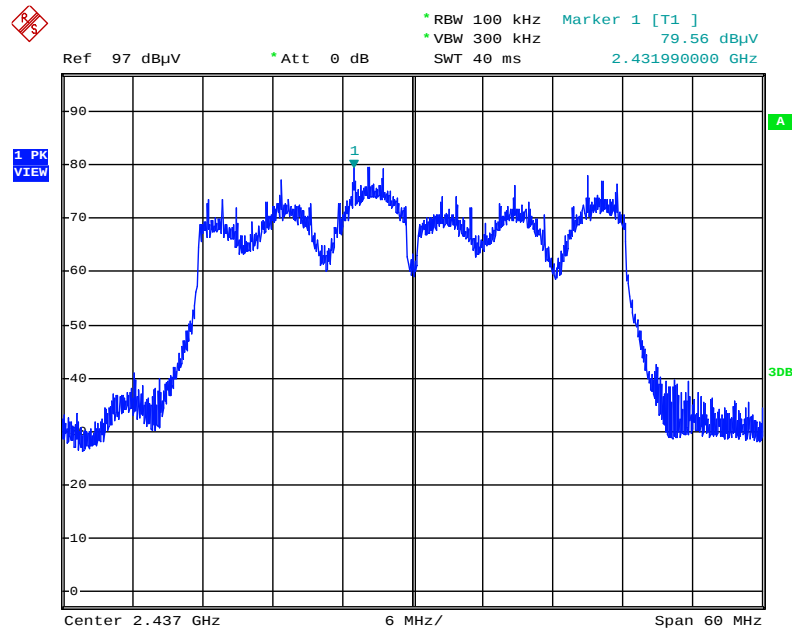
Date: 11.NOV.2015 01:45:34

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2500MHz~26500MHz (down 30dBc)



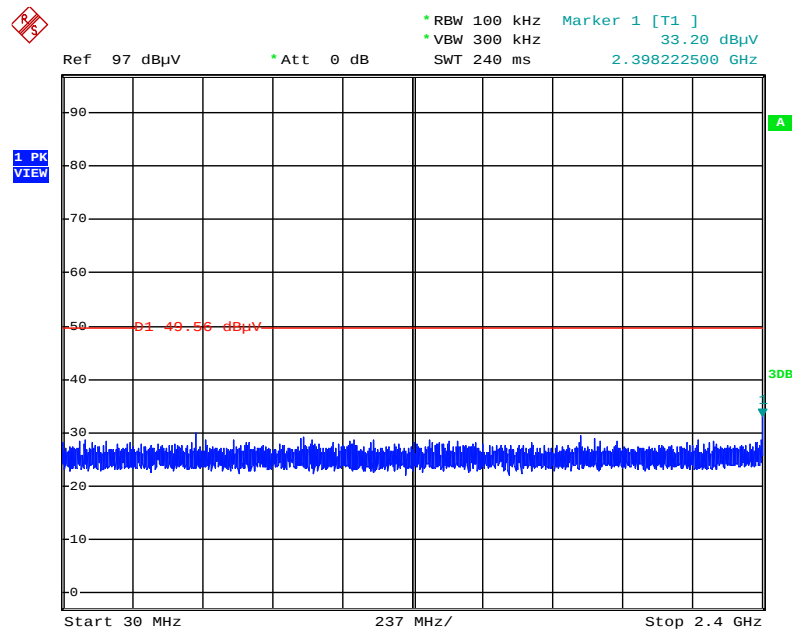
Date: 11.NOV.2015 01:46:03

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



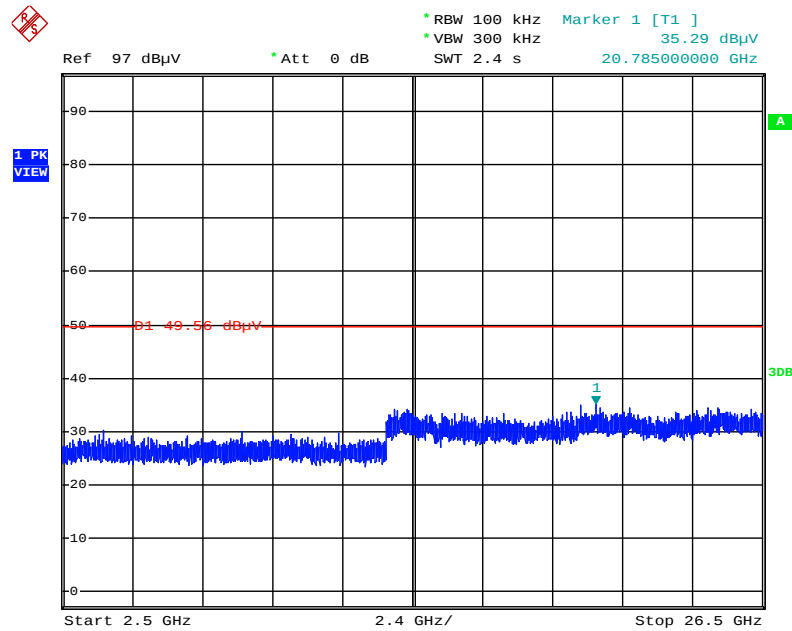
Date: 11.NOV.2015 01:48:00

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



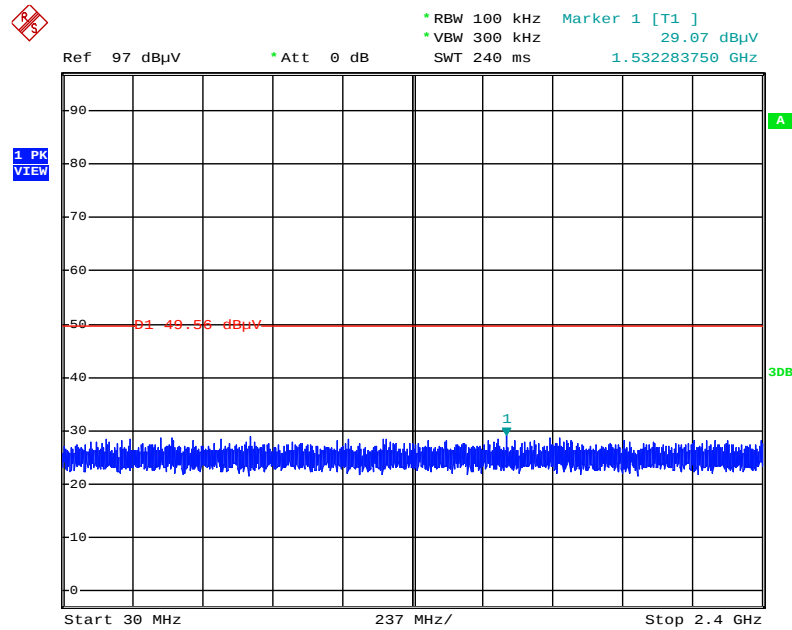
Date: 11.NOV.2015 01:49:16

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2500MHz~26500MHz (down 30dBc)



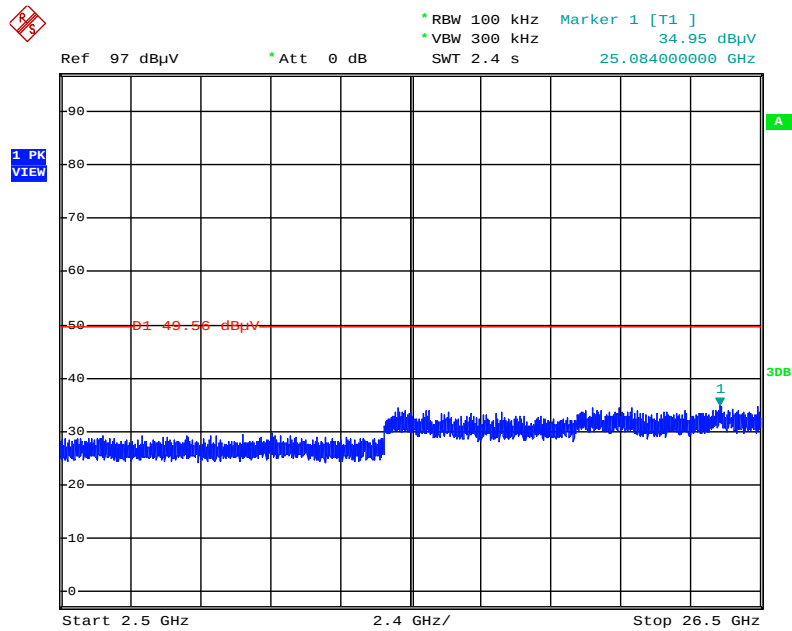
Date: 11.NOV.2015 01:49:49

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)



Date: 11.NOV.2015 01:50:38

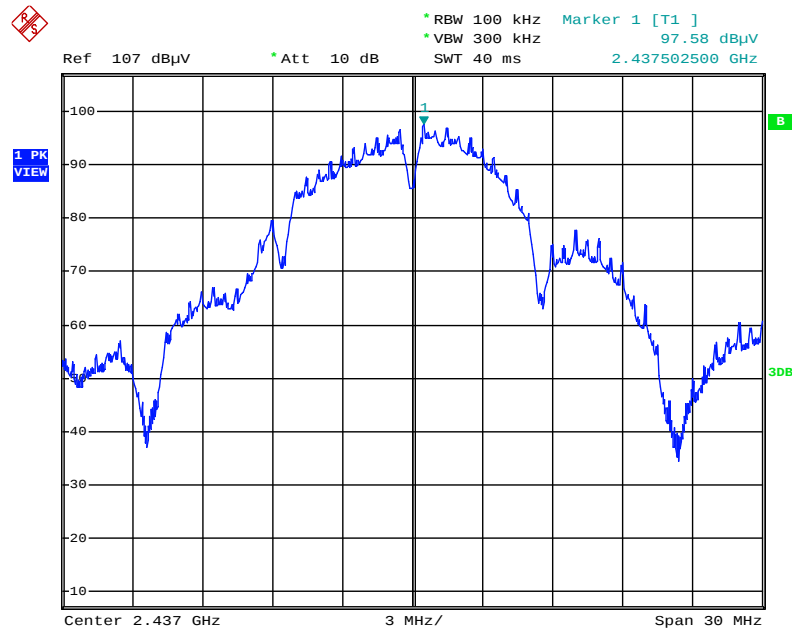
Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2500MHz~26500MHz (down 30dBc)



Date: 11.NOV.2015 01:51:16

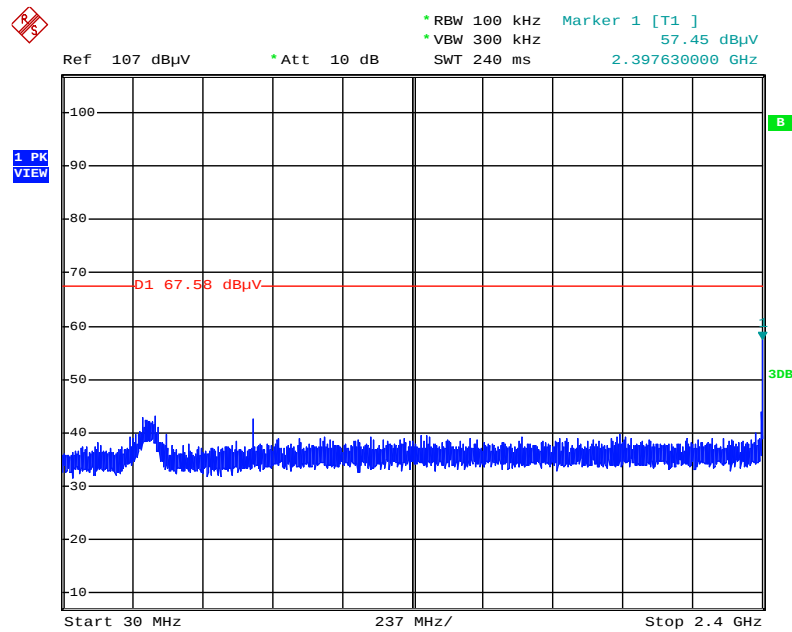
Mode 7: EUT 1 + Set 11 Omni Antenna / 5.5 dBi

Plot on Configuration IEEE 802.11b / Reference Level



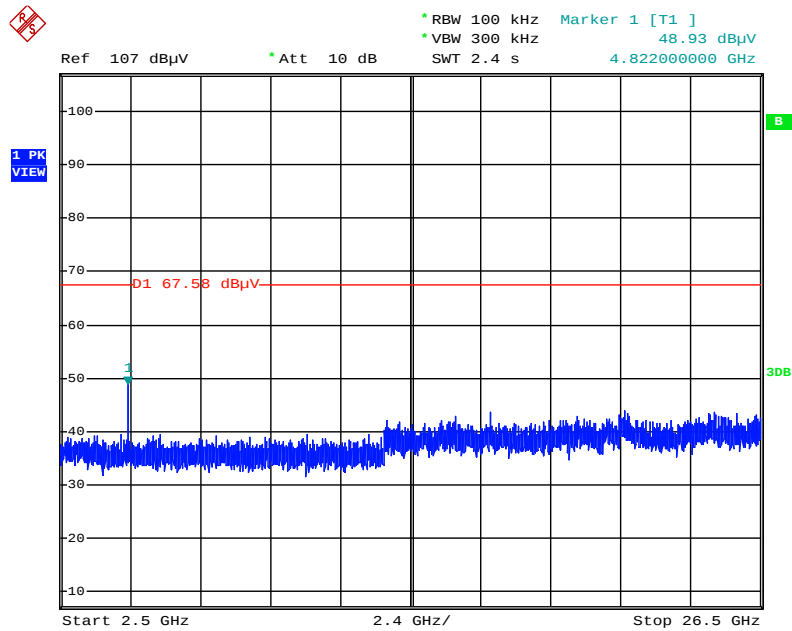
Date: 15.NOV.2015 16:19:27

Plot on Configuration IEEE 802.11b / CH 1 / 30MHz~2400MHz (down 30dBc)



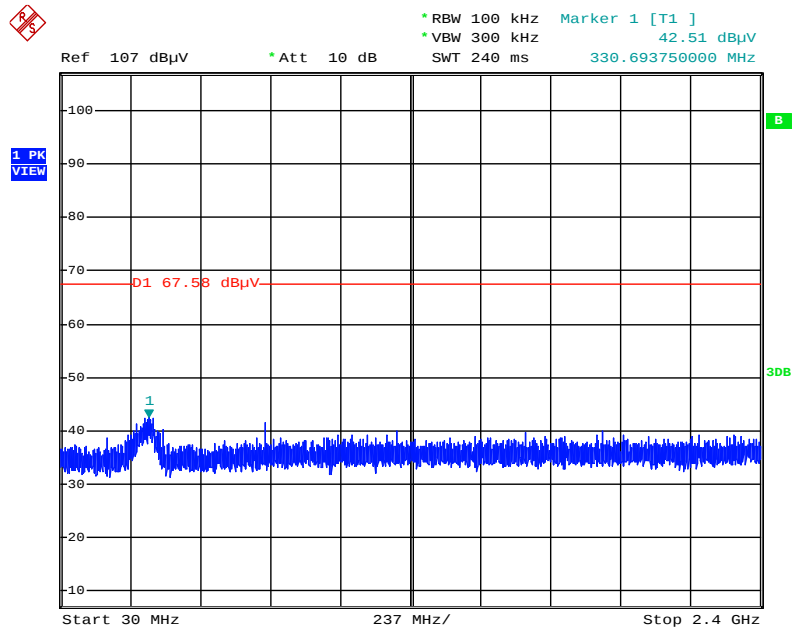
Date: 15.NOV.2015 16:20:36

Plot on Configuration IEEE 802.11b / CH 1 / 2500MHz~26500MHz (down 30dBc)



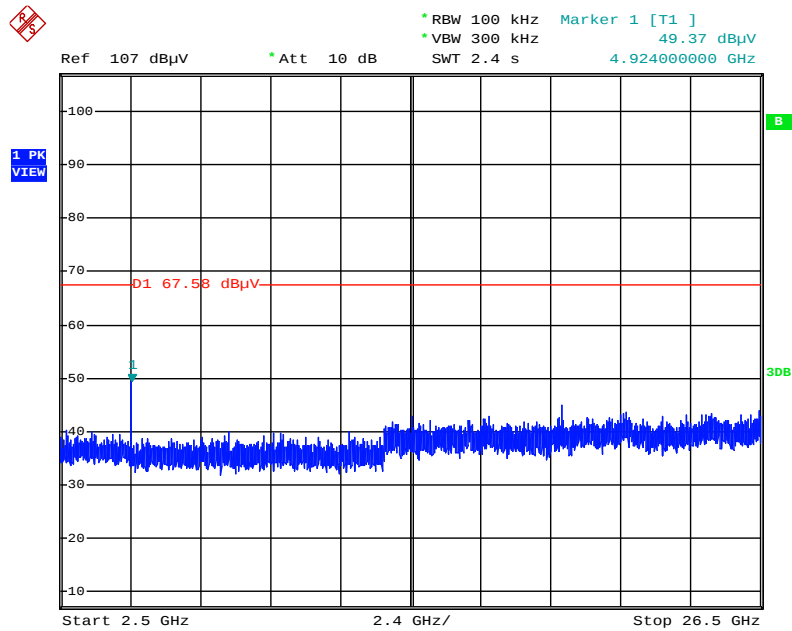
Date: 15.NOV.2015 16:20:57

Plot on Configuration IEEE 802.11b / CH 11 / 30MHz~2400MHz (down 30dBc)



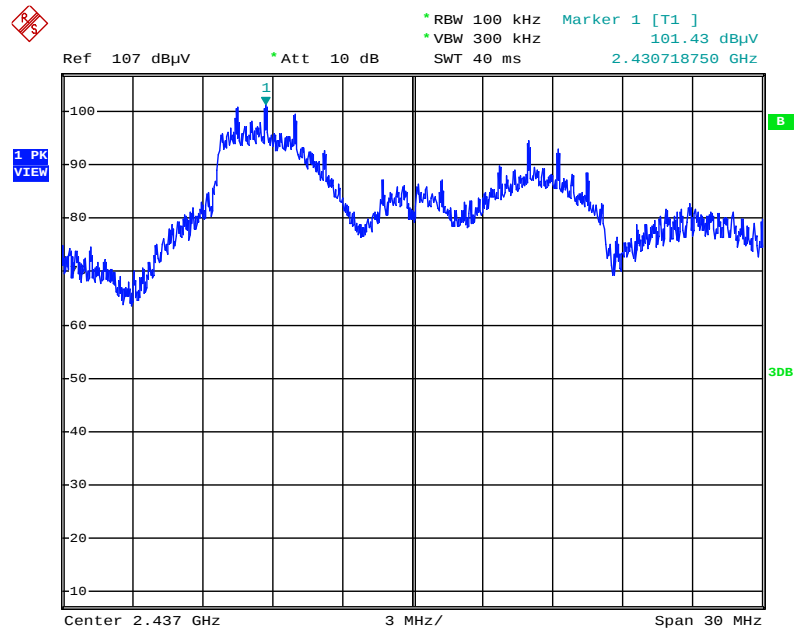
Date: 15.NOV.2015 16:21:25

Plot on Configuration IEEE 802.11b / CH 11 / 2500MHz~26500MHz (down 30dBc)



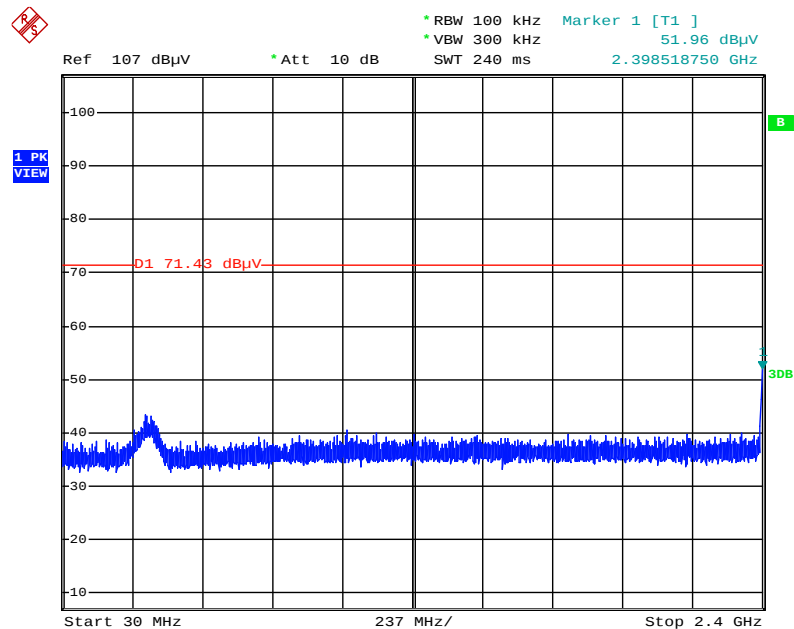
Date: 15.NOV.2015 16:21:47

Plot on Configuration IEEE 802.11g / Reference Level



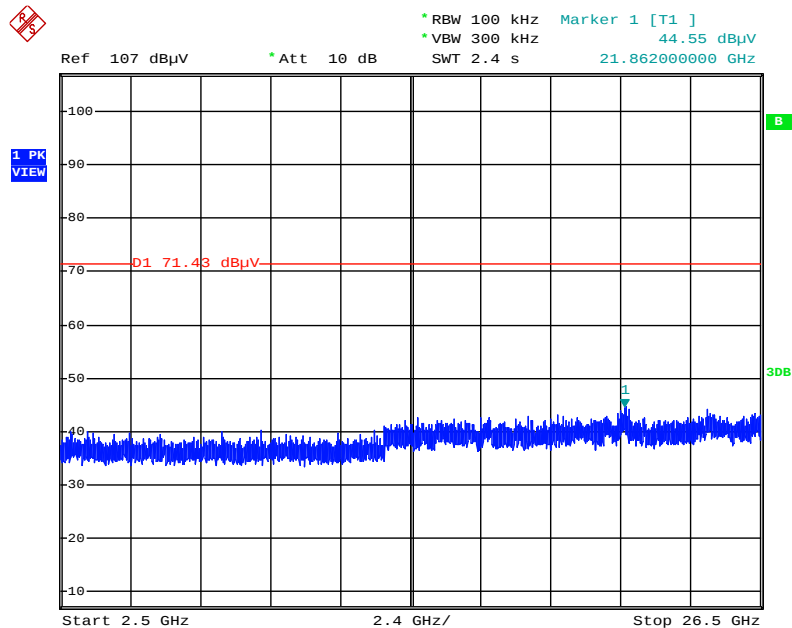
Date: 15.NOV.2015 16:06:18

Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)



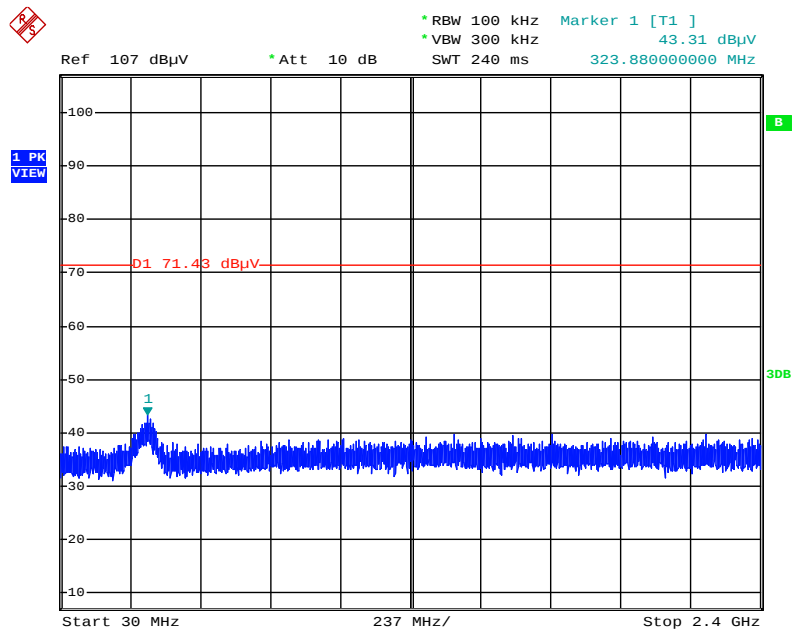
Date: 15.NOV.2015 16:07:24

Plot on Configuration IEEE 802.11g / CH 1 / 2500MHz~26500MHz (down 30dBc)



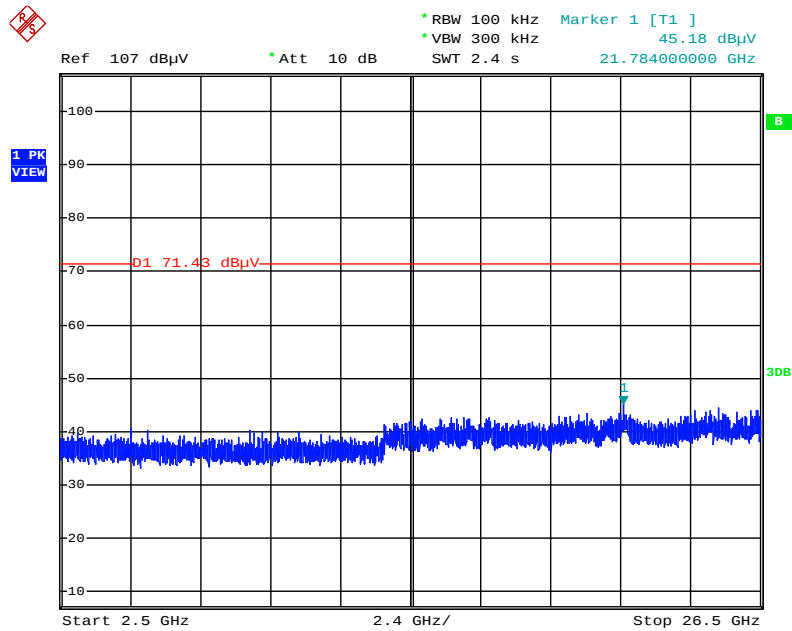
Date: 15.NOV.2015 16:07:48

Plot on Configuration IEEE 802.11g / CH 11 / 30MHz~2400MHz (down 30dBc)



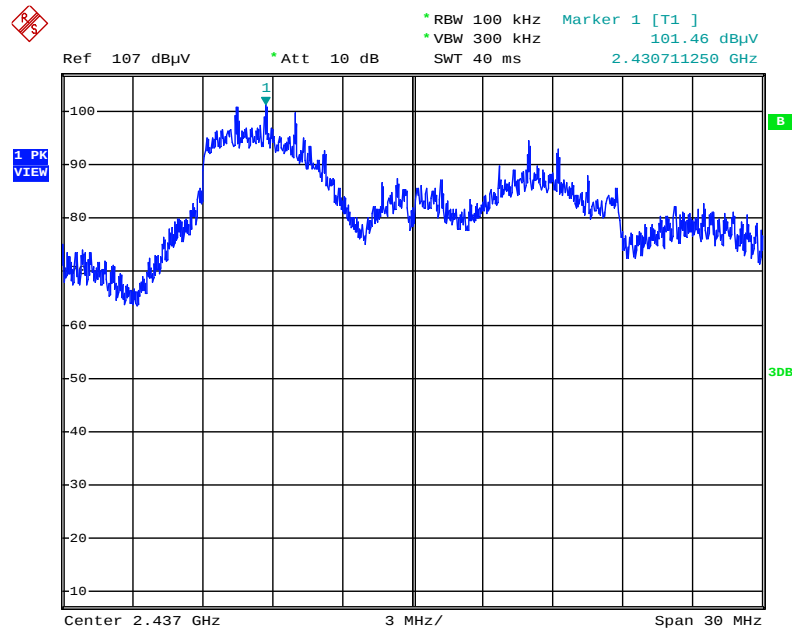
Date: 15.NOV.2015 16:08:16

Plot on Configuration IEEE 802.11g / CH 11 / 2500MHz~26500MHz (down 30dBc)



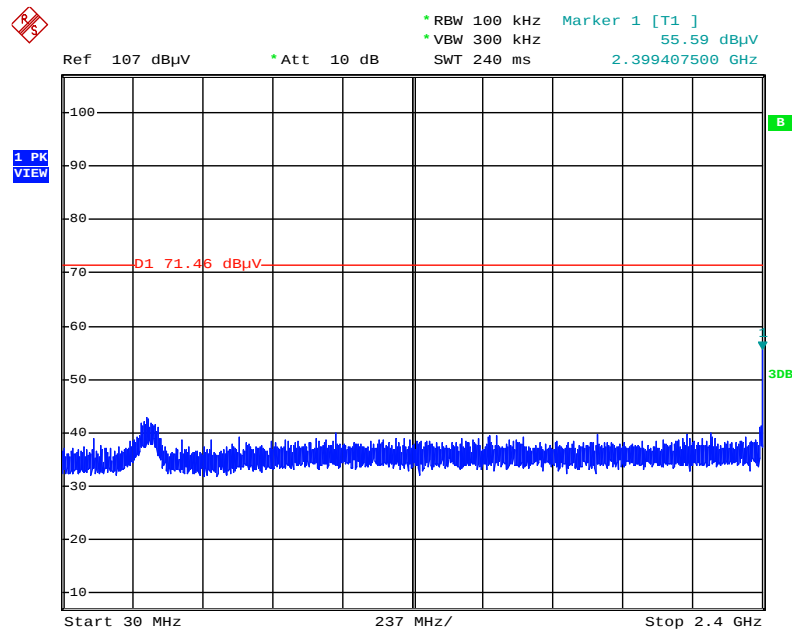
Date: 15.NOV.2015 16:08:39

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Reference Level



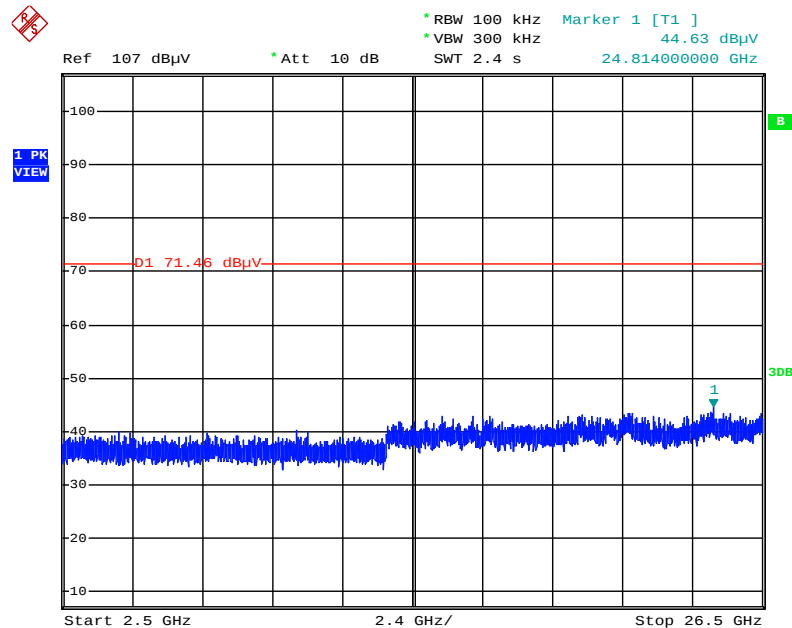
Date: 15.NOV.2015 16:10:17

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



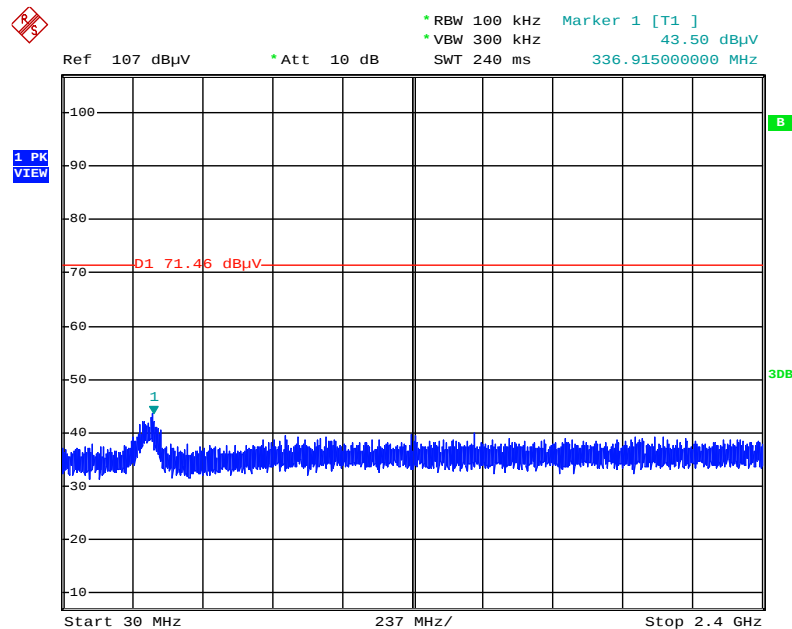
Date: 15.NOV.2015 16:24:03

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2500MHz~26500MHz (down 30dBc)



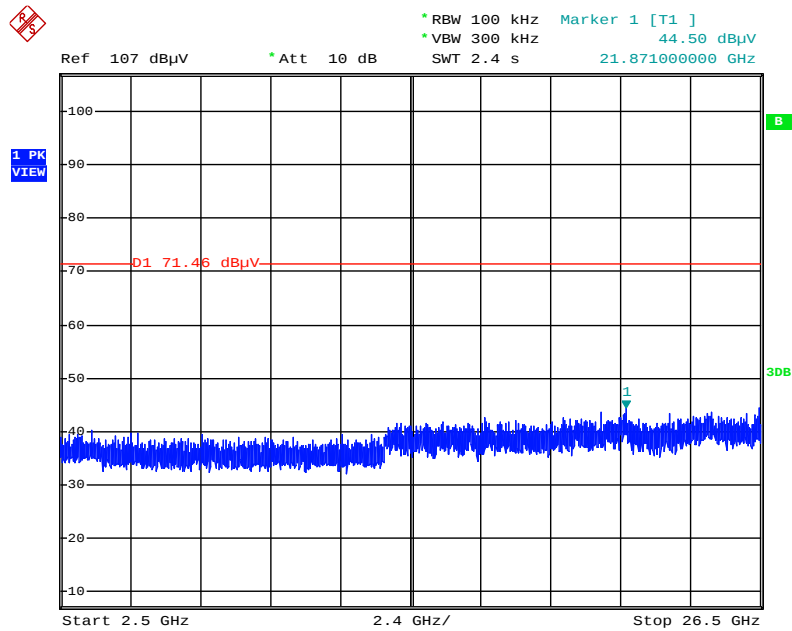
Date: 15.NOV.2015 16:12:18

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



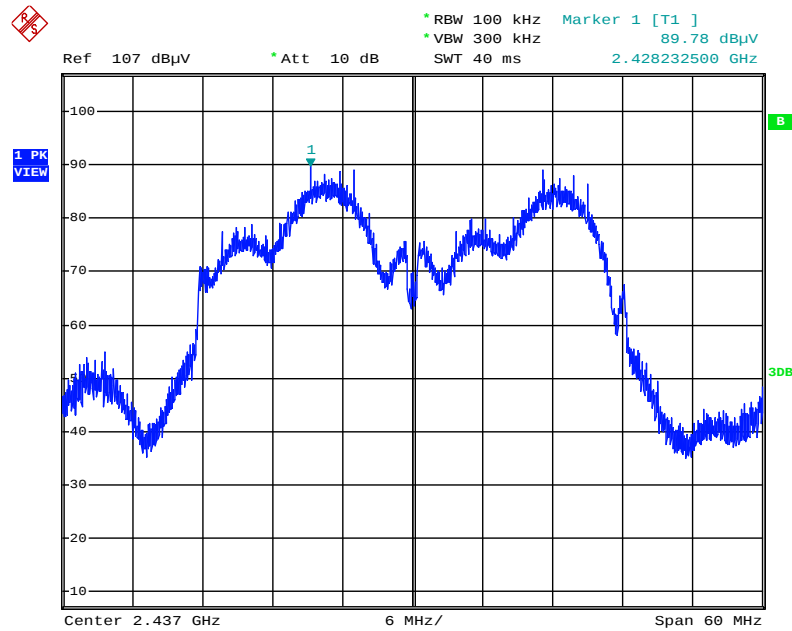
Date: 15.NOV.2015 16:12:48

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2500MHz~26500MHz (down 30dBc)



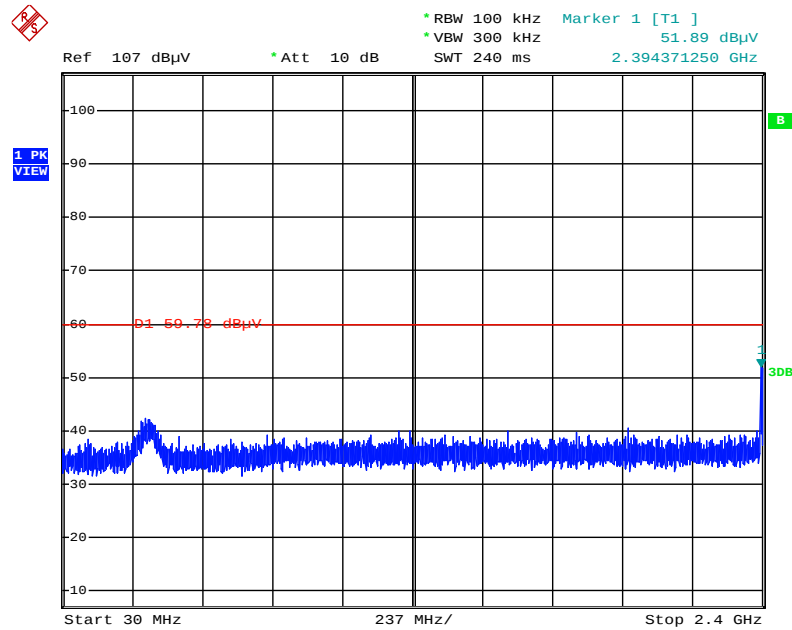
Date: 15.NOV.2015 16:13:09

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



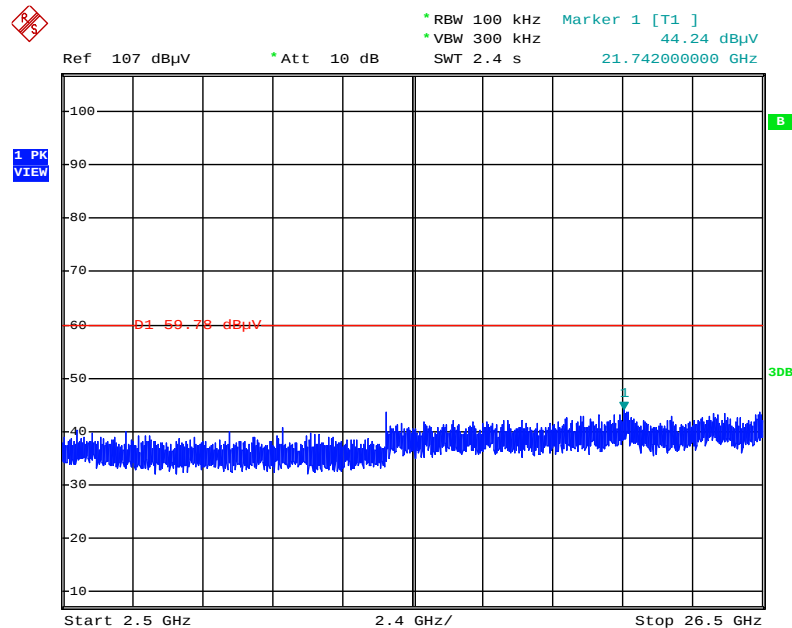
Date: 15.NOV.2015 16:13:56

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



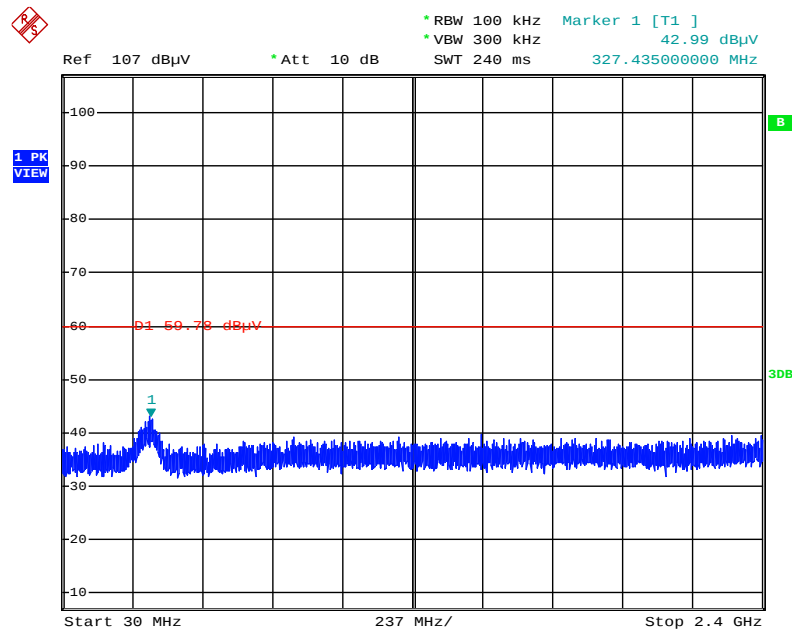
Date: 15.NOV.2015 16:14:46

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2500MHz~26500MHz (down 30dBc)



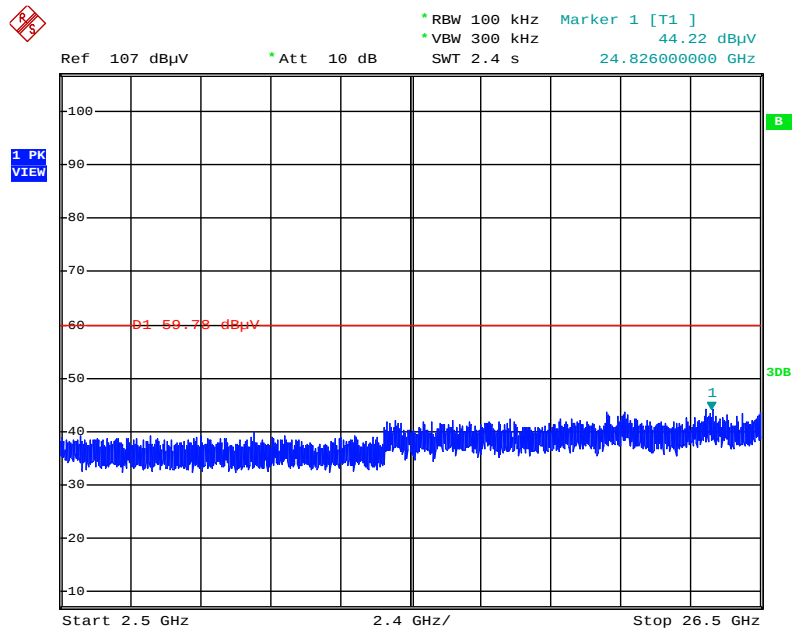
Date: 15.NOV.2015 16:15:06

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)



Date: 15.NOV.2015 16:15:32

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2500MHz~26500MHz (down 30dBc)



Date: 15.NOV.2015 16:15:52

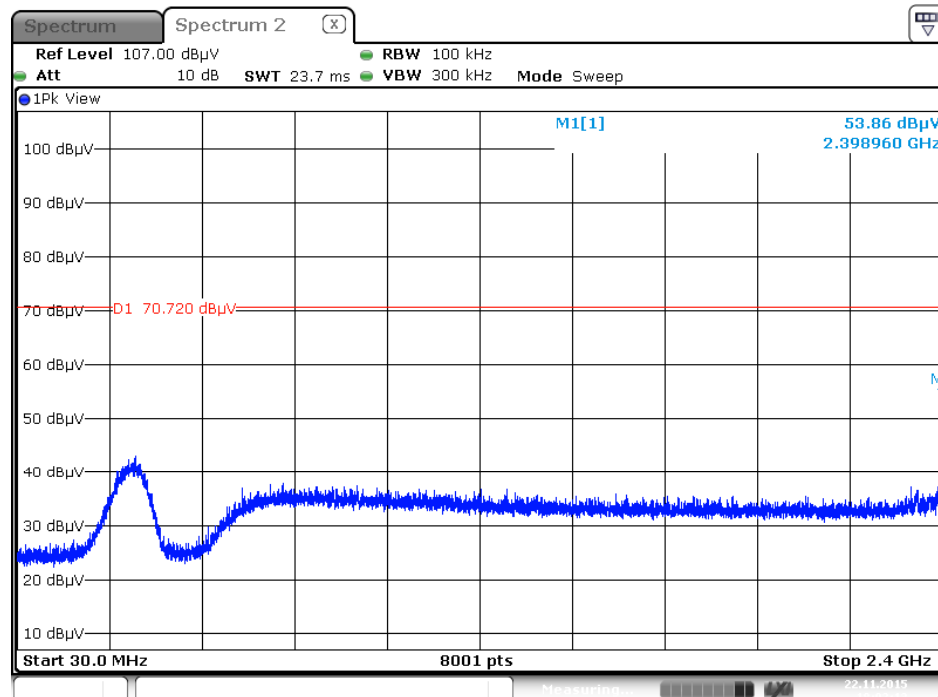
Mode 8: EUT 2 + Set 12 PIFA Antenna / Chain1:6.25 dBi, Chain2:5.77 dBi, Chain3:6.45 dBi, Chain4:5.60 dBi

Plot on Configuration IEEE 802.11b / Reference Level



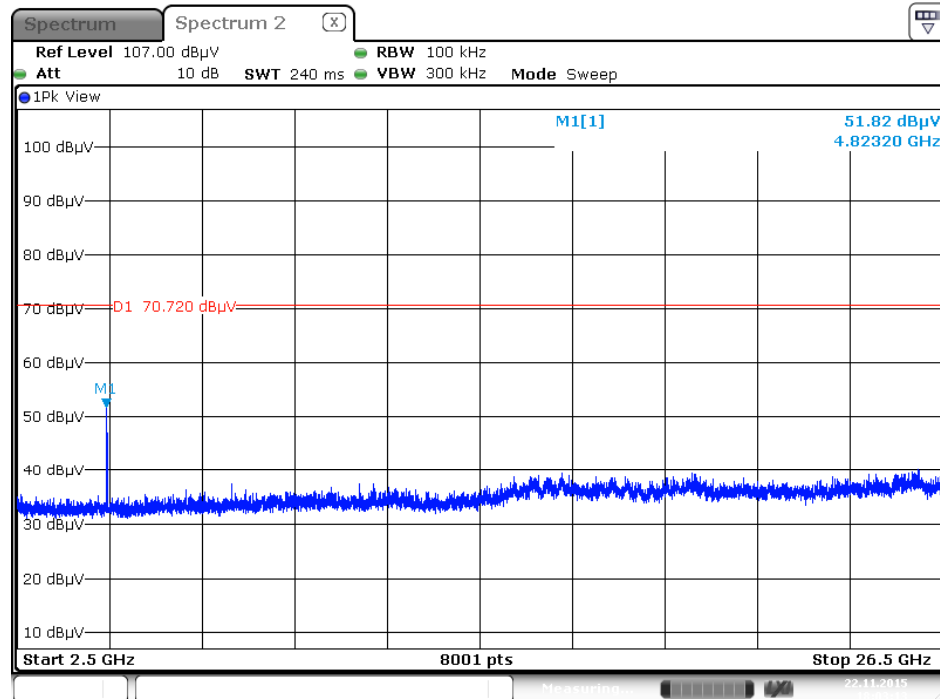
Date: 22.NOV.2015 18:00:21

Plot on Configuration IEEE 802.11b / CH 1 / 30MHz~2400MHz (down 30dBc)



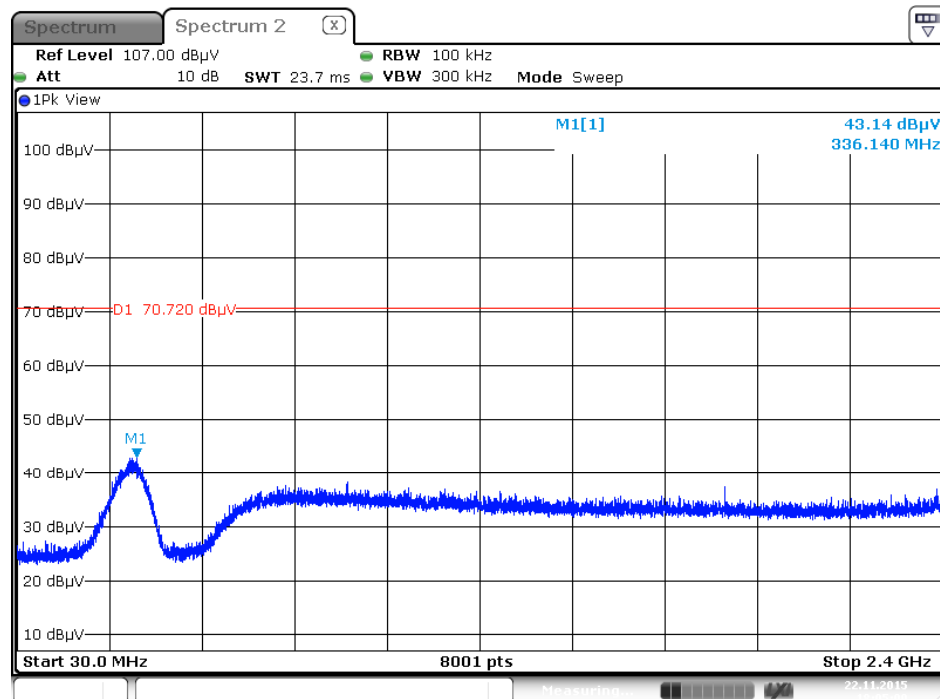
Date: 22.NOV.2015 18:02:13

Plot on Configuration IEEE 802.11b / CH 1 / 2500MHz~26500MHz (down 30dBc)



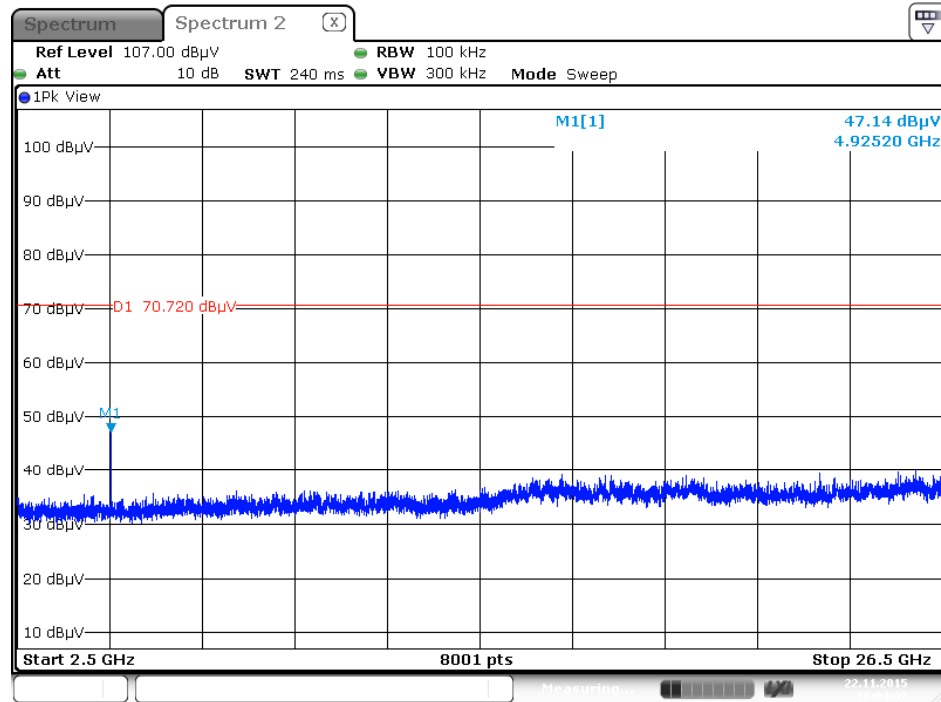
Date: 22.NOV.2015 18:03:13

Plot on Configuration IEEE 802.11b / CH 11 / 30MHz~2400MHz (down 30dBc)



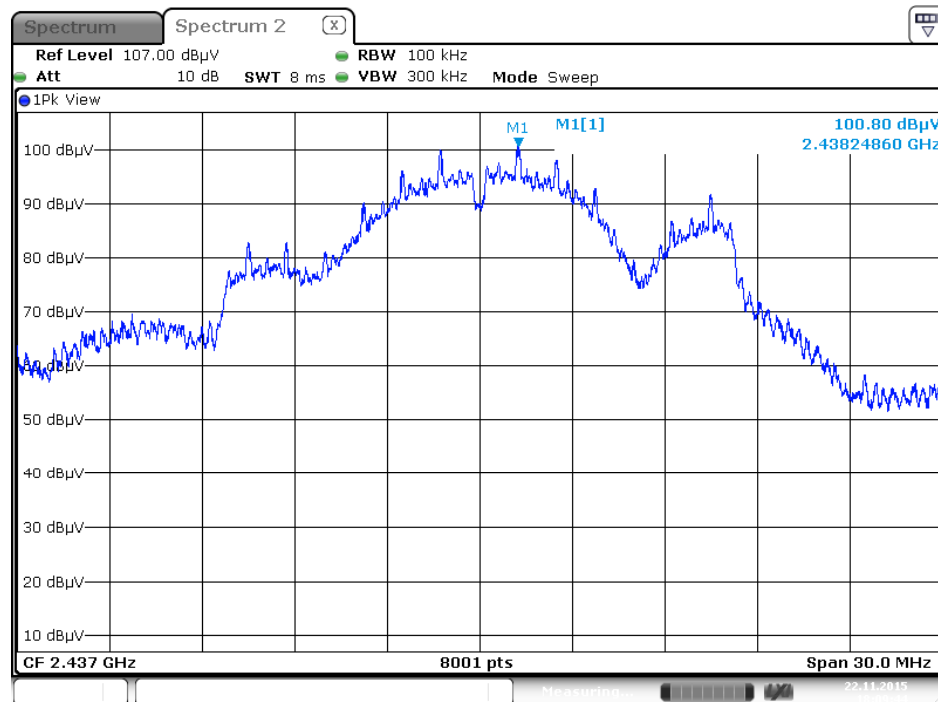
Date: 22.NOV.2015 18:05:00

Plot on Configuration IEEE 802.11b / CH 11 / 2500MHz~26500MHz (down 30dBc)

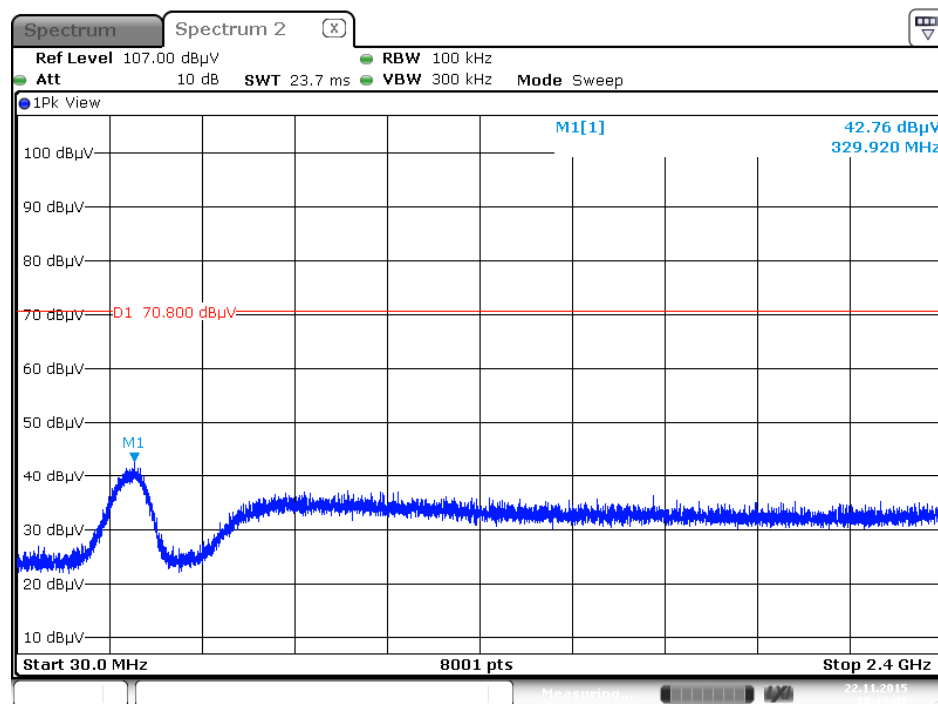


Date: 22.10.2015 18:04:07

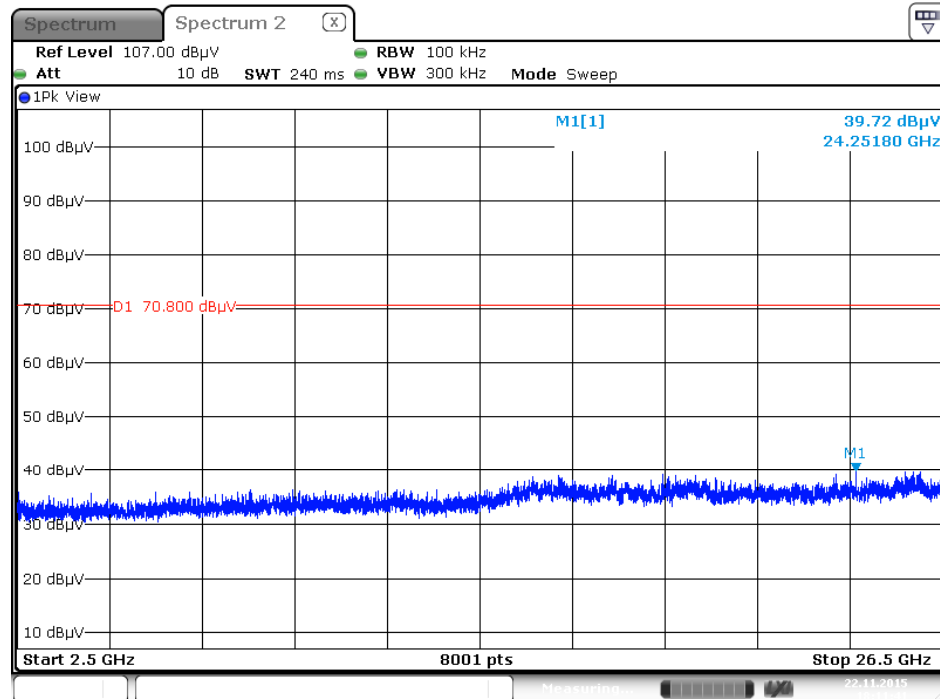
Plot on Configuration IEEE 802.11g / Reference Level



Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)

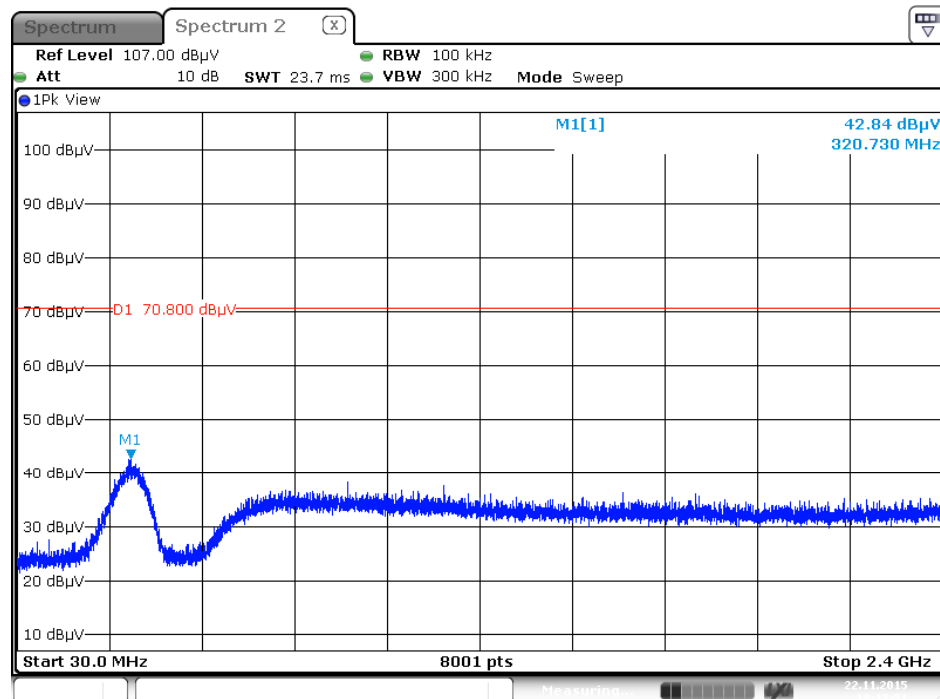


Plot on Configuration IEEE 802.11g / CH 1 / 2500MHz~26500MHz (down 30dBc)



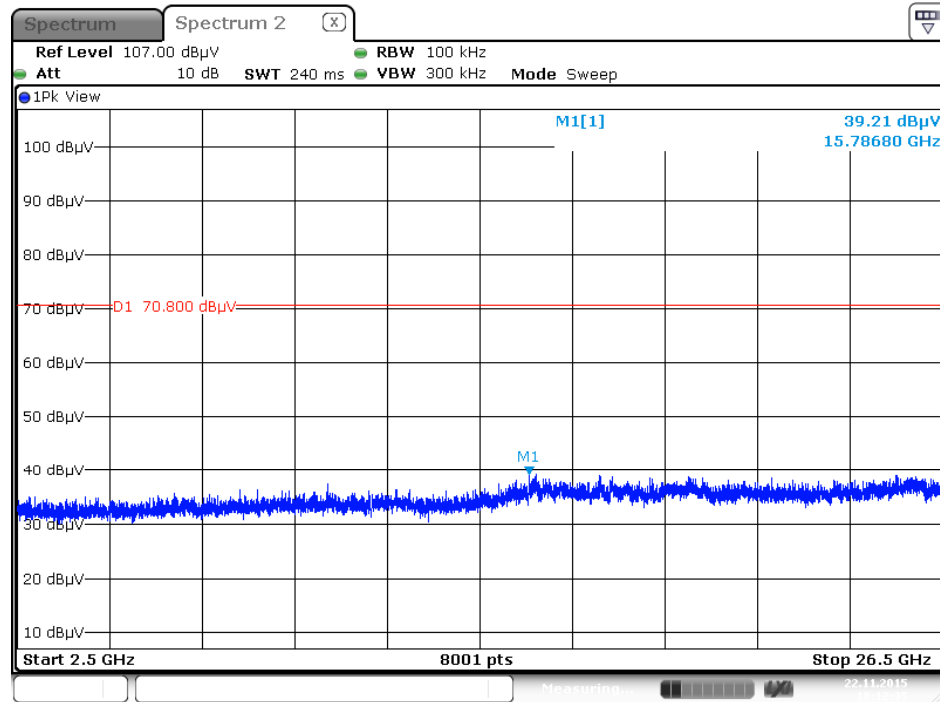
Date: 22.NOV.2015 18:11:41

Plot on Configuration IEEE 802.11g / CH 11 / 30MHz~2400MHz (down 30dBc)



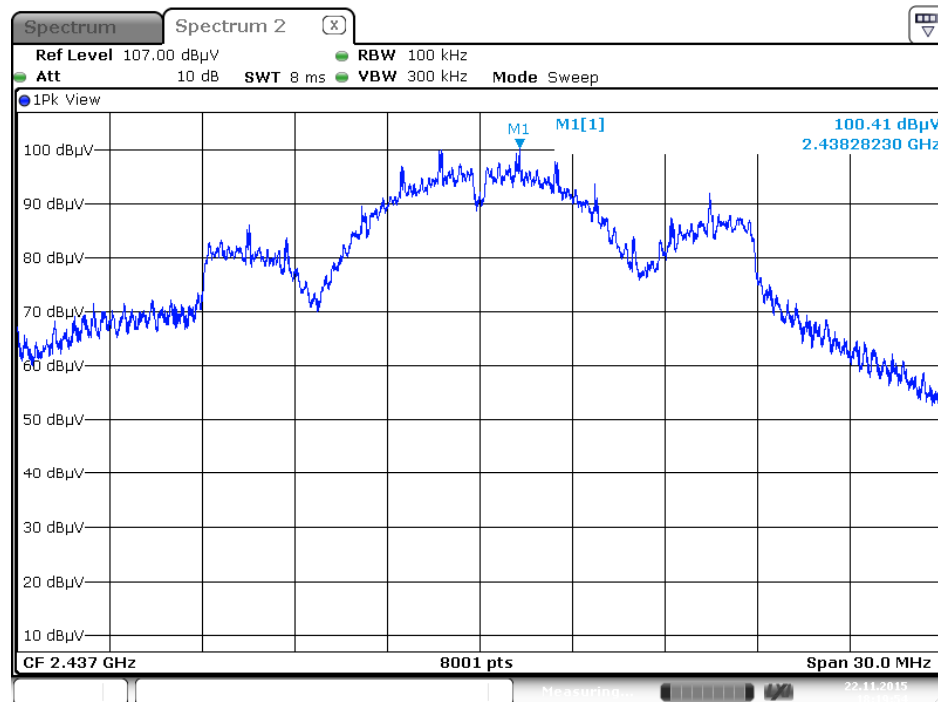
Date: 22.NOV.2015 18:13:51

Plot on Configuration IEEE 802.11g / CH 11 / 2500MHz~26500MHz (down 30dBc)

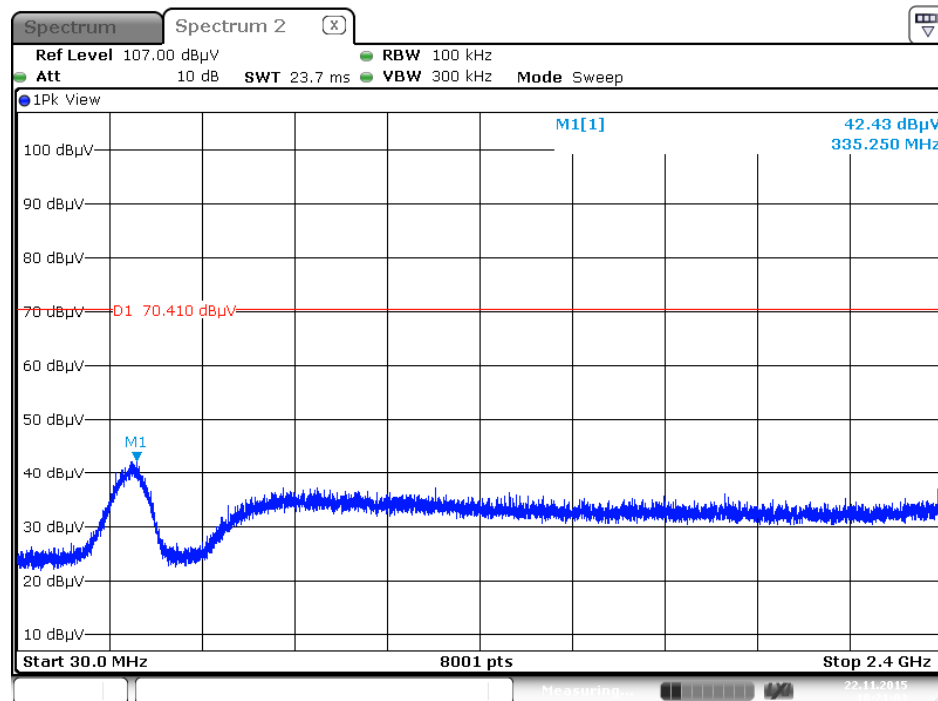


Date: 22.NOV.2015 18:12:35

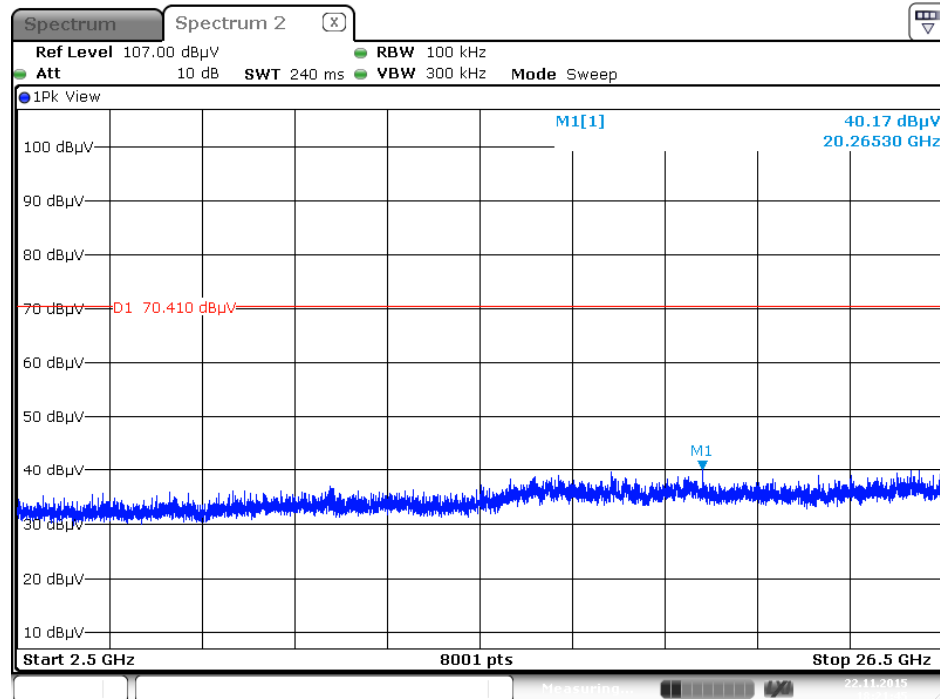
Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Reference Level



Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)

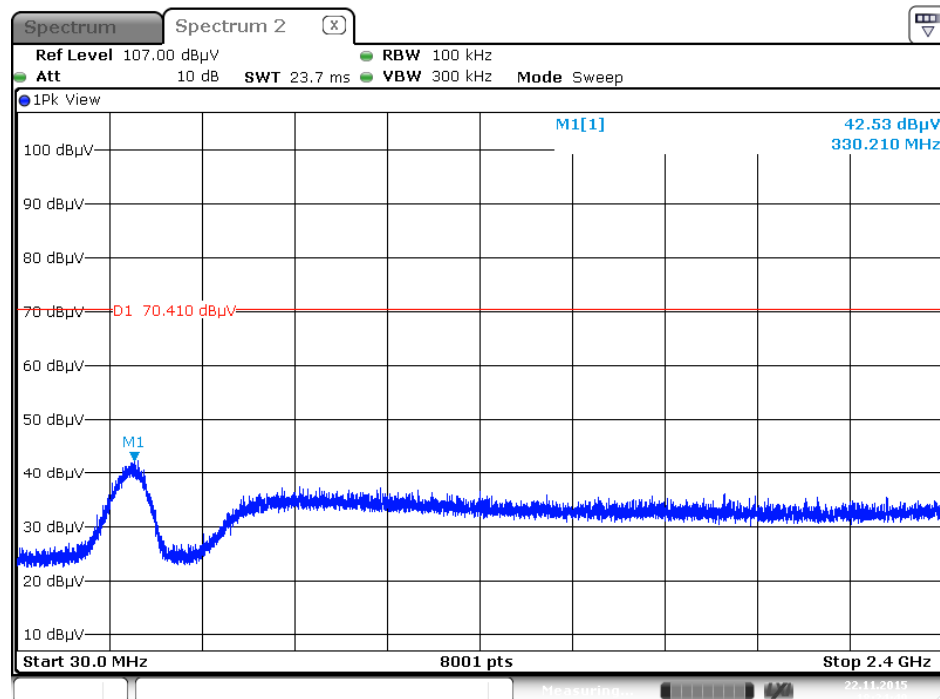


Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2500MHz~26500MHz (down 30dBc)



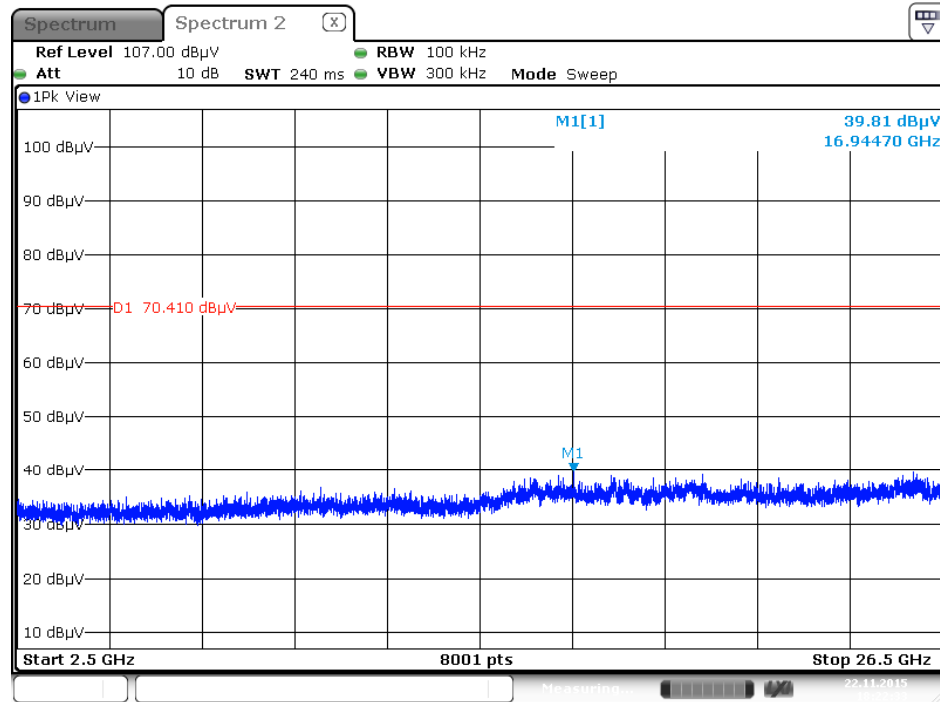
Date: 22.NOV.2015 18:21:46

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



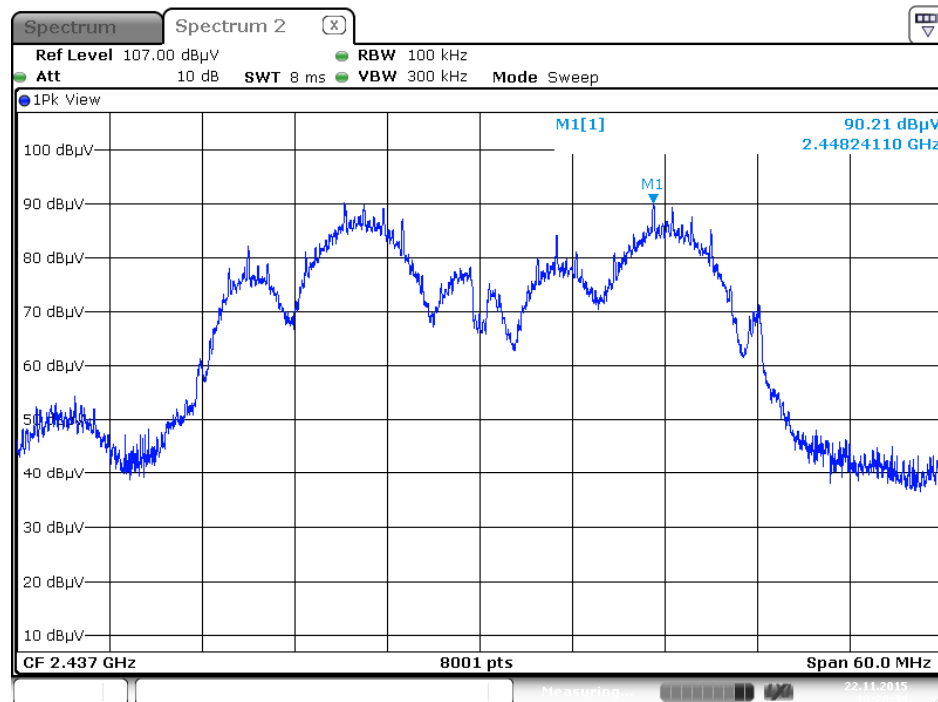
Date: 22.NOV.2015 18:24:49

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2500MHz~26500MHz (down 30dBc)



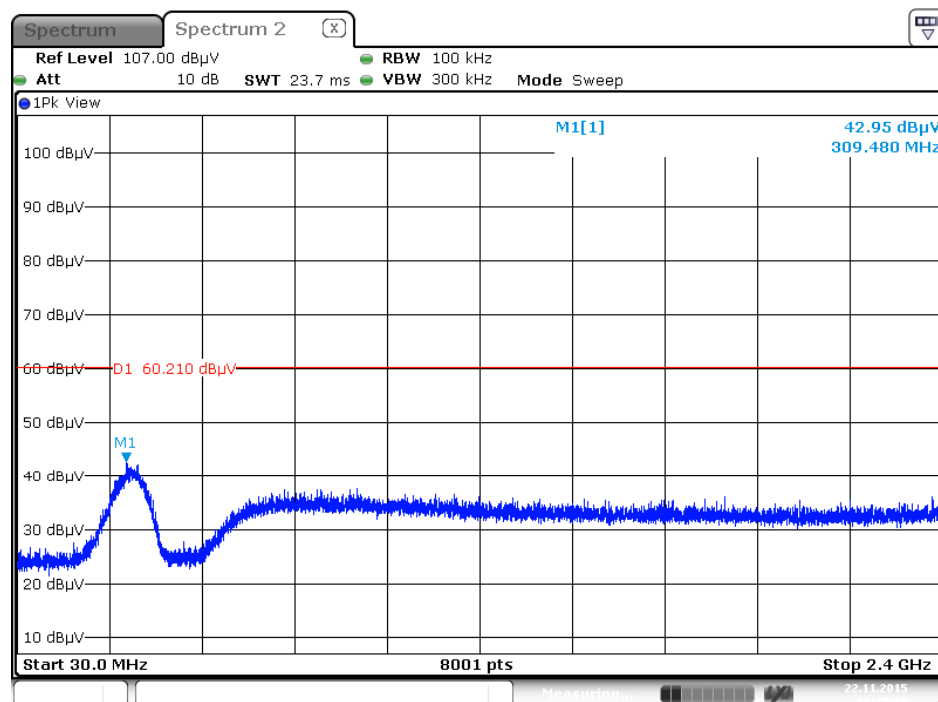
Date: 22.10.2015 18:22:33

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



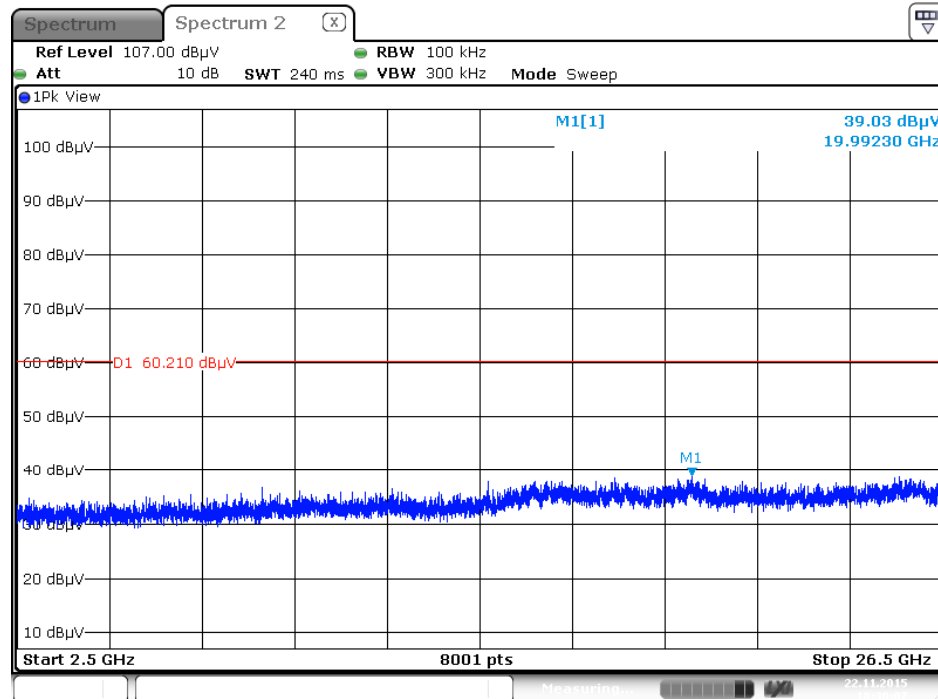
Date: 22.NOV.2015 18:28:34

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



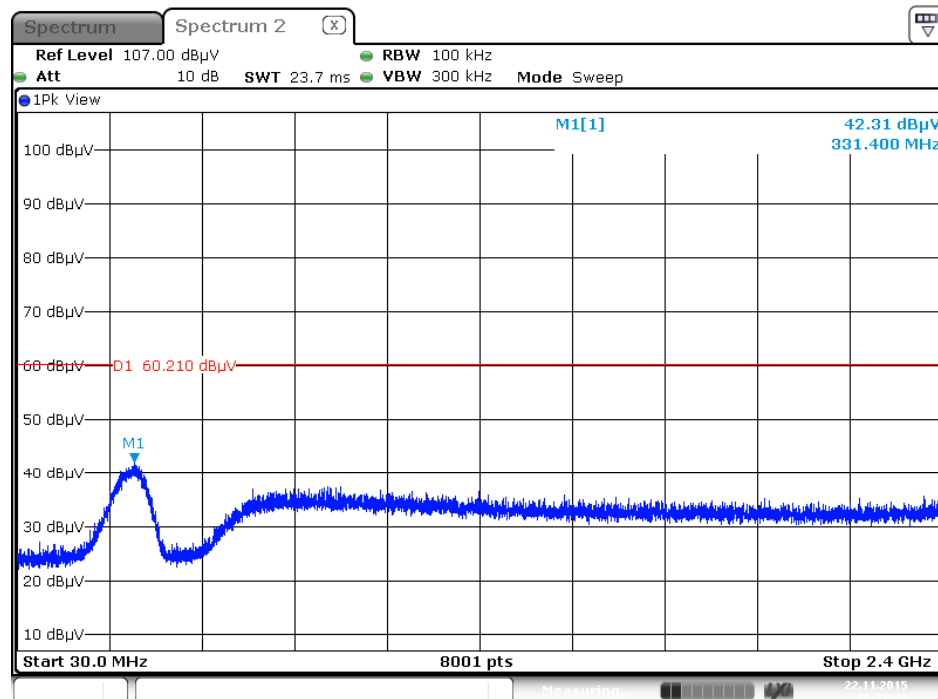
Date: 22.NOV.2015 18:29:39

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2500MHz~26500MHz (down 30dBc)



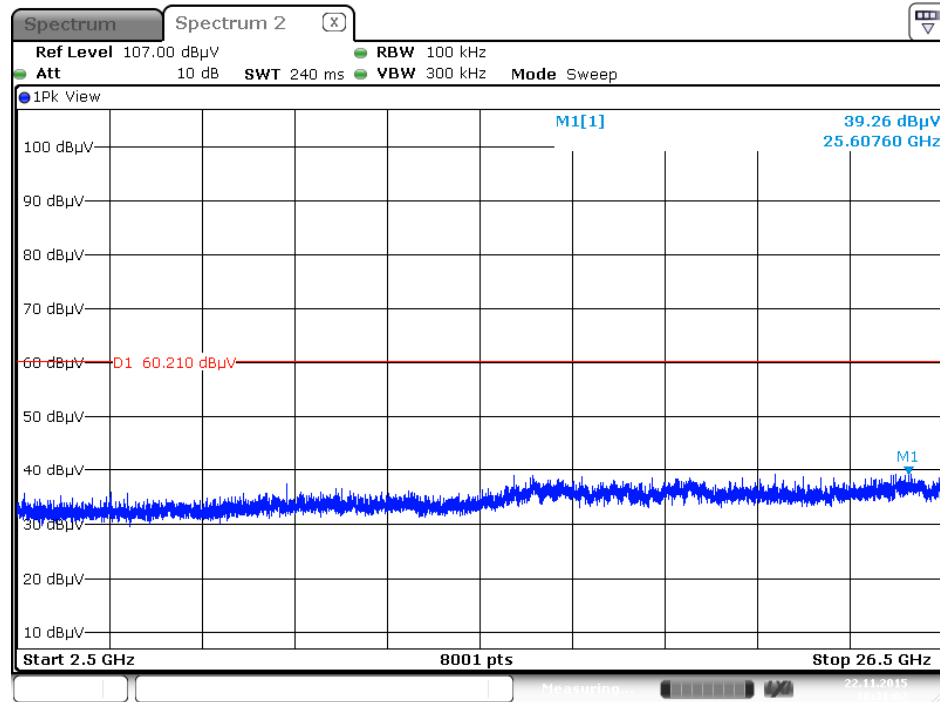
Date: 22.NOV.2015 18:30:07

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)



Date: 22.NOV.2015 18:31:42

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2500MHz~26500MHz (down 30dBc)



Date: 22.10.2015 18:31:02

4.7. Antenna Requirements

4.7.1. Limit

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

4.7.2. Antenna Connector Construction

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

5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Test Receiver	R&S	ESCS 30	100355	9kHz ~ 2.75GHz	Apr. 22, 2015	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Nov. 16, 2015	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 13, 2015	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 25, 2015	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA	Schaffner	CBL6112D	37880	20MHz ~ 2GHz	Sep. 03, 2015	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 12, 2015*	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Oct. 22, 2015	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2015	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Feb. 24, 2015	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 12, 2015	Radiation (03CH01-CB)
Pre-Amplifier	WM	TF-130N-R1	923365	26GHz ~ 40GHz	Feb.10, 2015	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Oct. 27, 2015	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 12, 2014	Radiation (03CH01-CB)
EMI Receiver	Agilent	N9038A	MY52260123	9kHz ~ 8.4GHz	Jan. 21, 2015	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz ~ 1 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-17	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-10-7	N/A	N/A	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 12, 2014	Conducted (TH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 09, 2015	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz ~ 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz ~ 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)

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

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

“*” Calibration Interval of instruments listed above is two years.

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

6. MEASUREMENT UNCERTAINTY

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