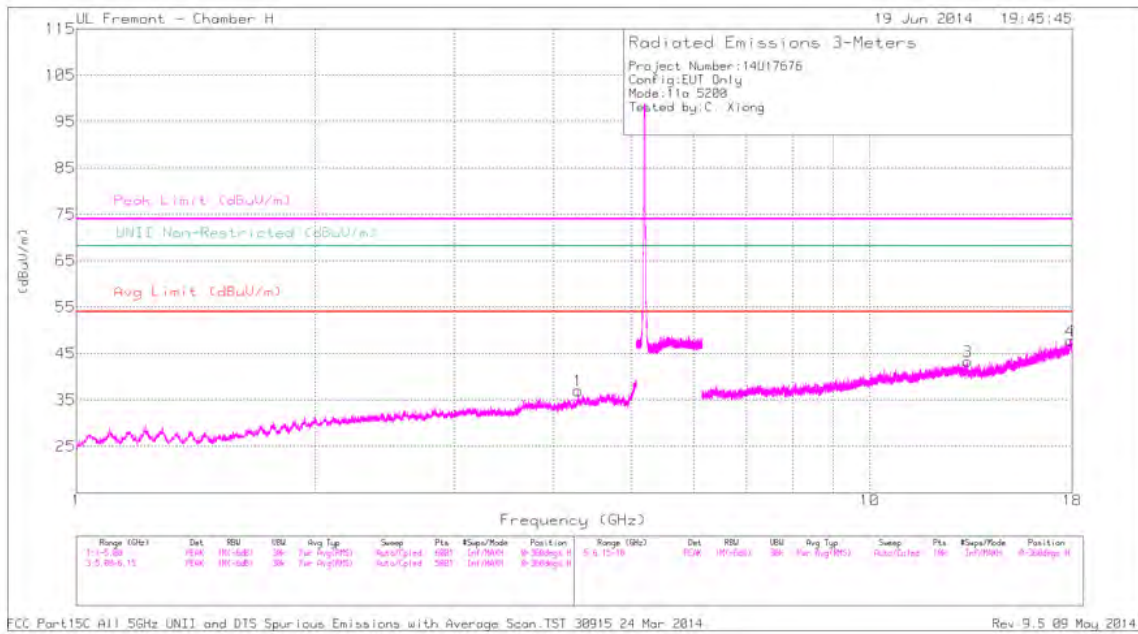
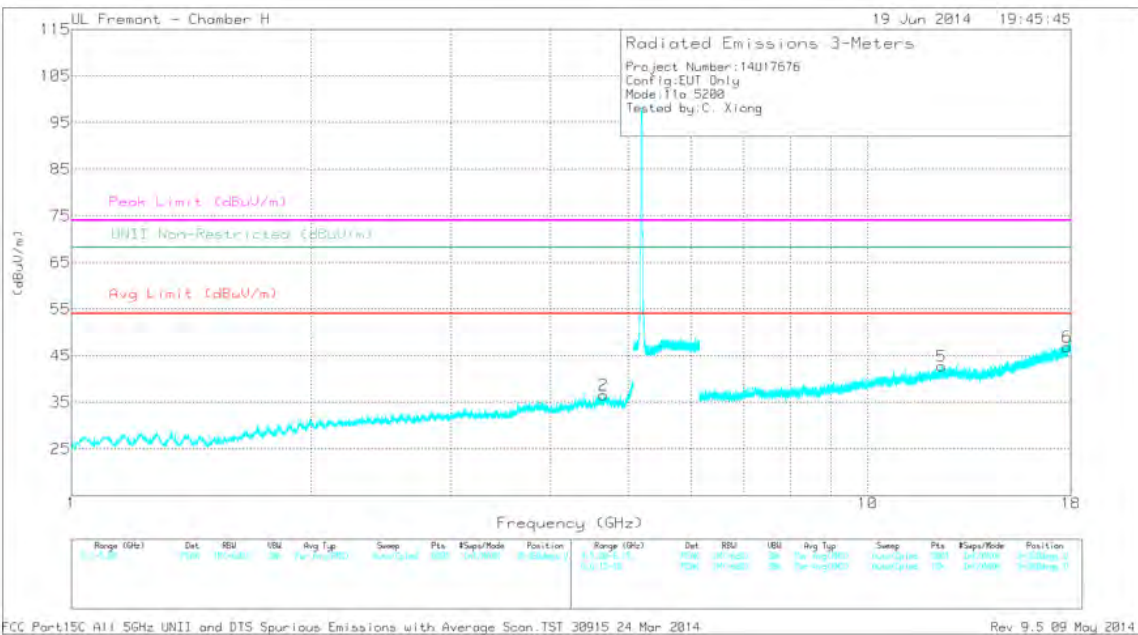


MID CHANNEL HORIZONTAL PLOT, CH 40



MID CHANNEL VERTICAL PLOT, CH 40



DATA

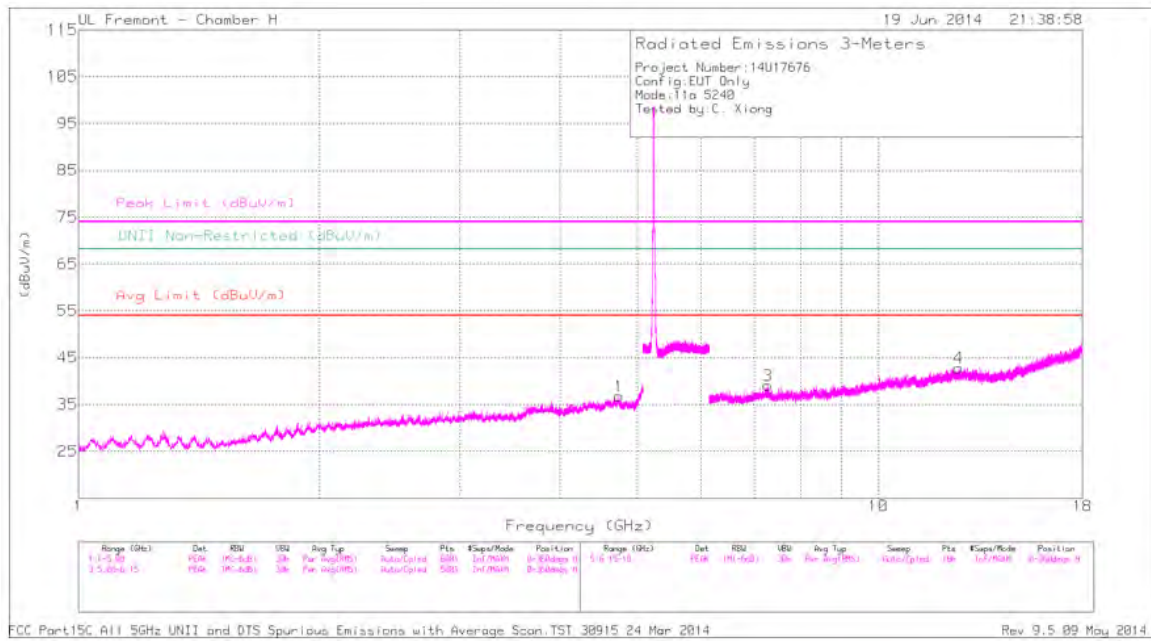
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Ch/Fl tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.291	41.32	PK1	33.6	-31.8	0	43.12	-	-	74	-30.88	-	-	131	161	H
* 4.287	30.48	AD1	33.6	-31.9	.1	32.28	54	-21.72	-	-	-	-	131	161	H
* 4.657	41.63	PK1	34.2	-32.2	0	43.63	-	-	74	-30.37	-	-	194	117	V
* 4.665	30.71	AD1	34.2	-32.2	.1	32.81	54	-21.19	-	-	-	-	194	117	V
* 13.284	36.64	PK1	39.1	-25.2	0	50.54	-	-	74	-23.46	-	-	289	219	H
* 13.282	26.05	AD1	39.1	-25.1	.1	40.15	54	-13.85	-	-	-	-	289	219	H
* 17.9	34.28	PK1	42.5	-21	0	55.78	-	-	74	-18.22	-	-	175	134	H
* 17.893	23.74	AD1	42.5	-21.5	.1	44.84	54	-9.16	-	-	-	-	175	134	H
* 12.392	36.6	PK1	39.1	-25.2	0	50.5	-	-	74	-23.5	-	-	18	205	V
* 12.389	25.88	AD1	39.1	-25.3	.1	39.78	54	-14.22	-	-	-	-	18	205	V
* 17.803	34.59	PK1	42.4	-22.4	0	54.59	-	-	74	-19.41	-	-	137	182	V
* 17.796	23.72	AD1	42.4	-22.5	.1	43.72	54	-10.28	-	-	-	-	137	182	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

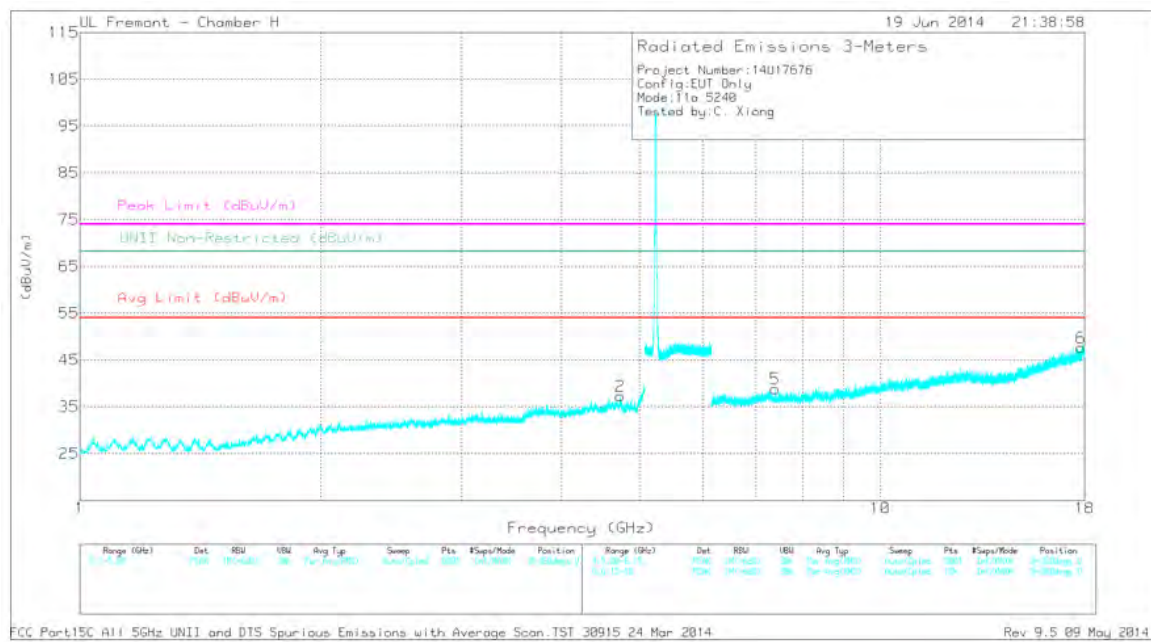
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT, CH 48



HIGH CHANNEL VERTICAL PLOT, CH 48



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.745	41.63	PK1	34.3	-31.7	0	44.23	-	-	74	-29.77	-	-	177	203	H
	* 4.747	30.67	AD1	34.3	-31.7	.1	33.37	54	-20.63	-	-	-	-	177	203	H
2	* 4.73	41.87	PK1	34.3	-31.5	0	44.67	-	-	74	-29.33	-	-	228	200	V
	* 4.737	30.32	AD1	34.3	-31.5	.1	33.22	54	-20.78	-	-	-	-	228	200	V
3	* 7.283	39.03	PK1	36.2	-29.5	0	45.73	-	-	74	-28.27	-	-	51	127	H
	* 7.286	28.52	AD1	36.2	-29.5	.1	35.32	54	-18.68	-	-	-	-	51	127	H
4	* 12.61	36.1	PK1	39.2	-25.6	0	49.7	-	-	74	-24.3	-	-	33	148	H
	* 12.616	25.54	AD1	39.2	-25.4	.1	39.44	54	-14.56	-	-	-	-	33	148	H
5	* 7.392	39.42	PK1	36.1	-30	0	45.52	-	-	74	-28.48	-	-	7	174	V
	* 7.397	28.7	AD1	36.1	-30	.1	34.9	54	-19.1	-	-	-	-	7	174	V
6	* 17.828	35.65	PK1	42.4	-22.2	0	55.85	-	-	74	-18.15	-	-	19	123	V
	* 17.822	24.22	AD1	42.4	-22.3	.1	44.42	54	-9.58	-	-	-	-	19	123	V

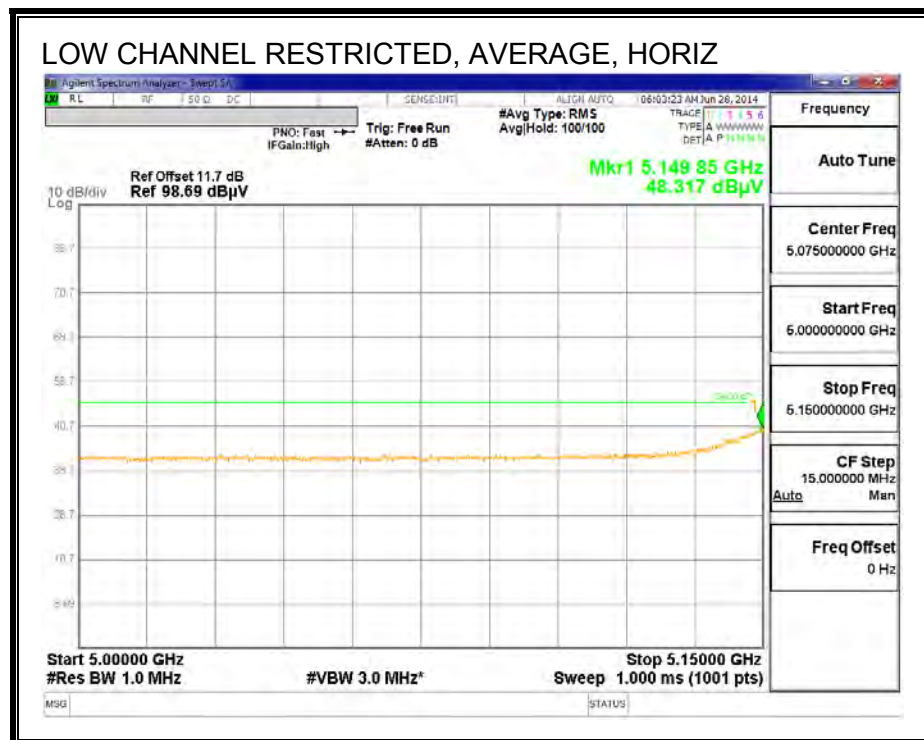
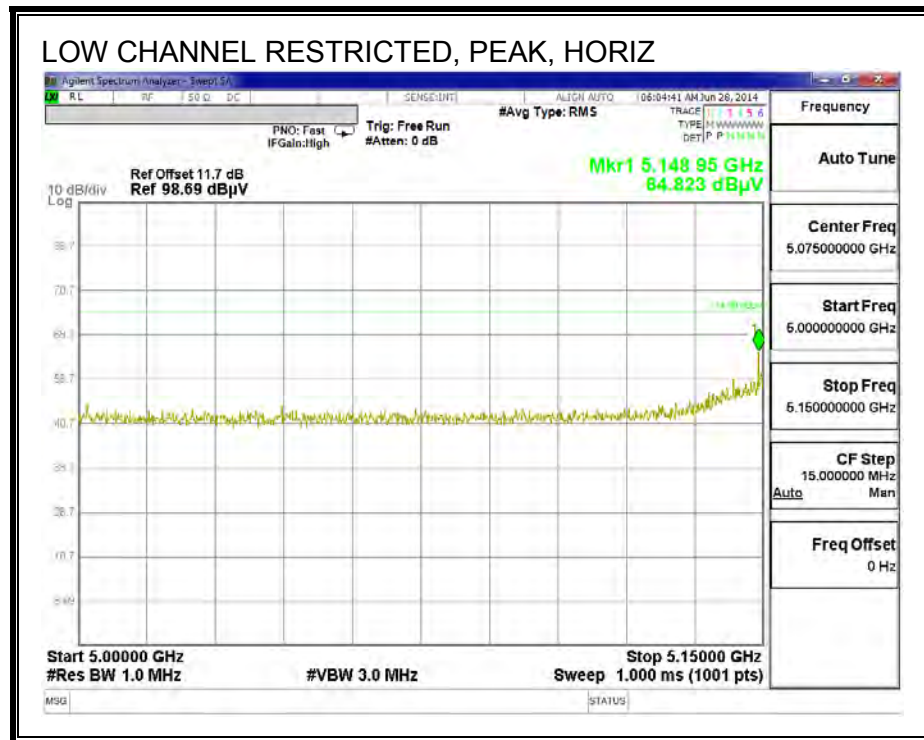
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

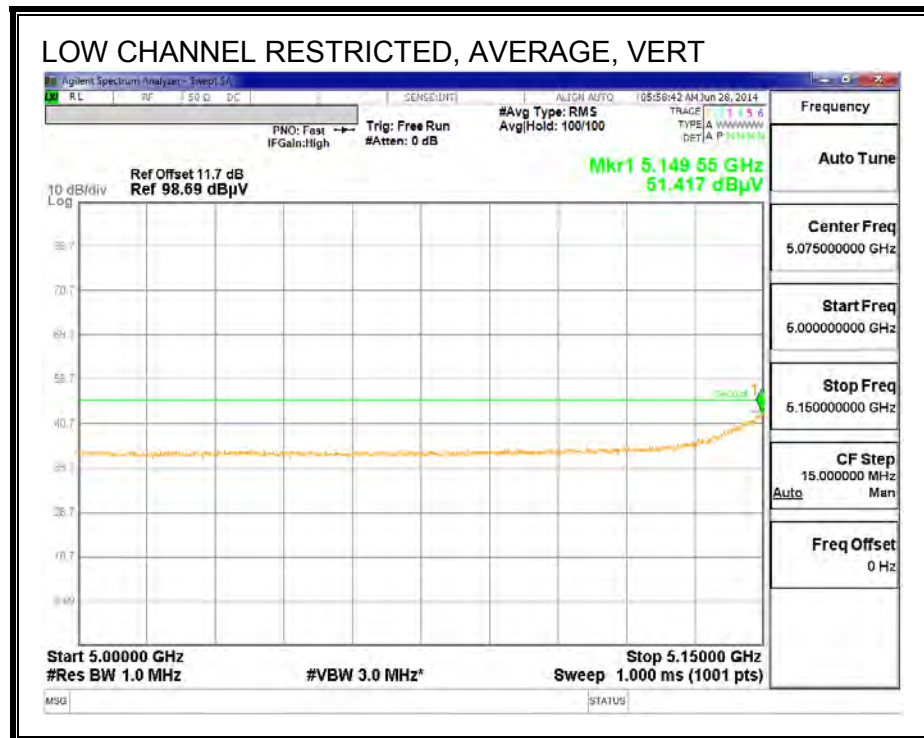
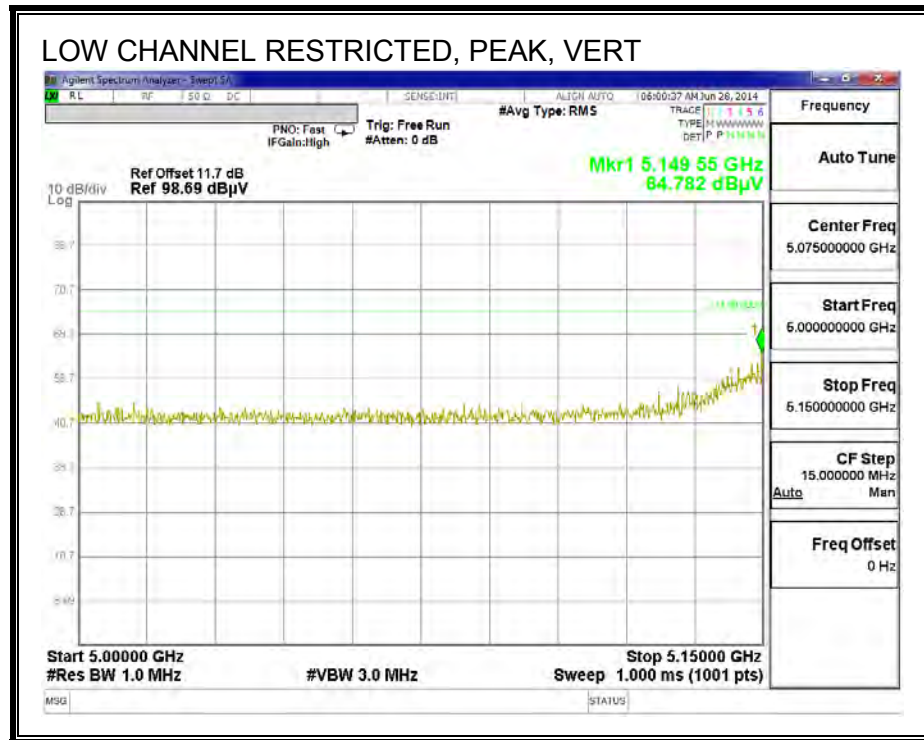
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

10.2.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND

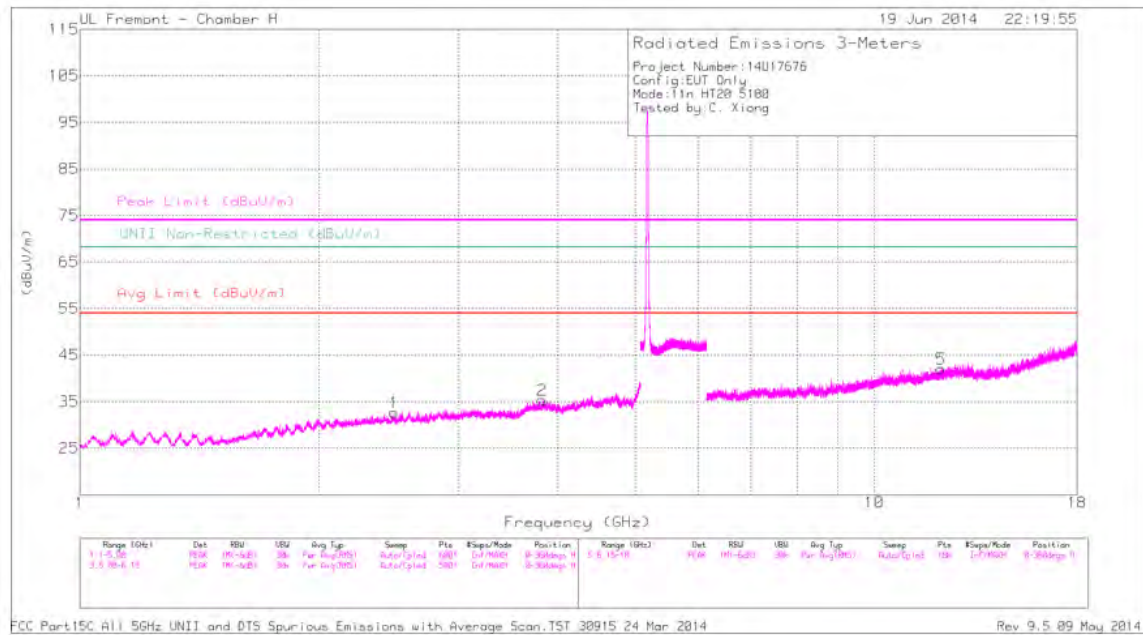
RESTRICTED BANDEDGE (LOW CHANNEL)



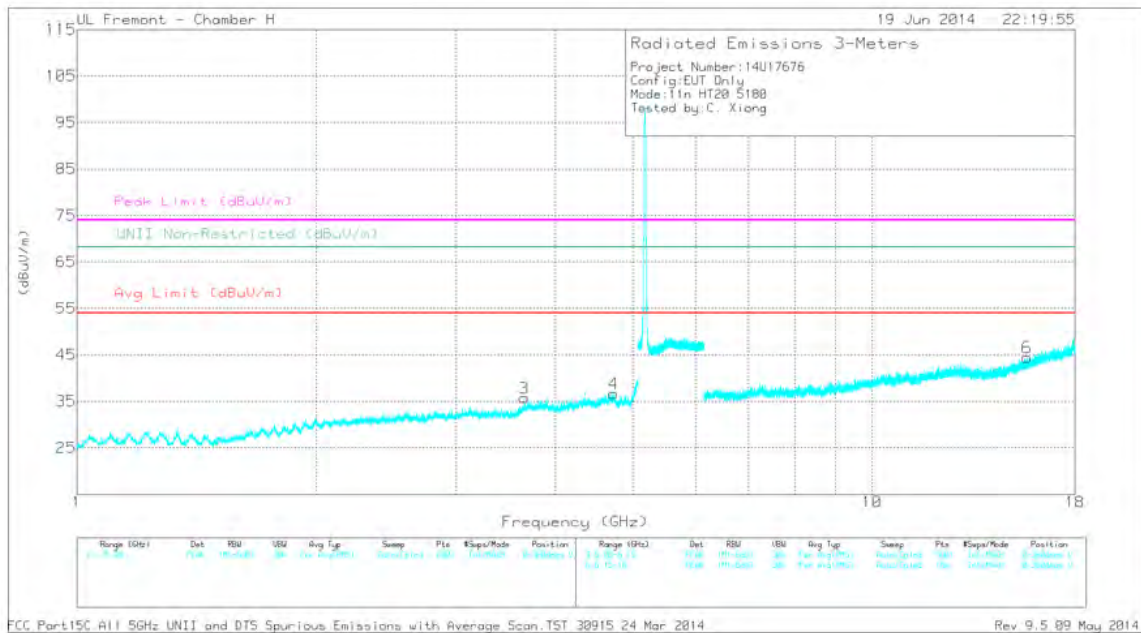


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT, CH 36



LOW CHANNEL VERTICAL PLOT, CH 36



DATA

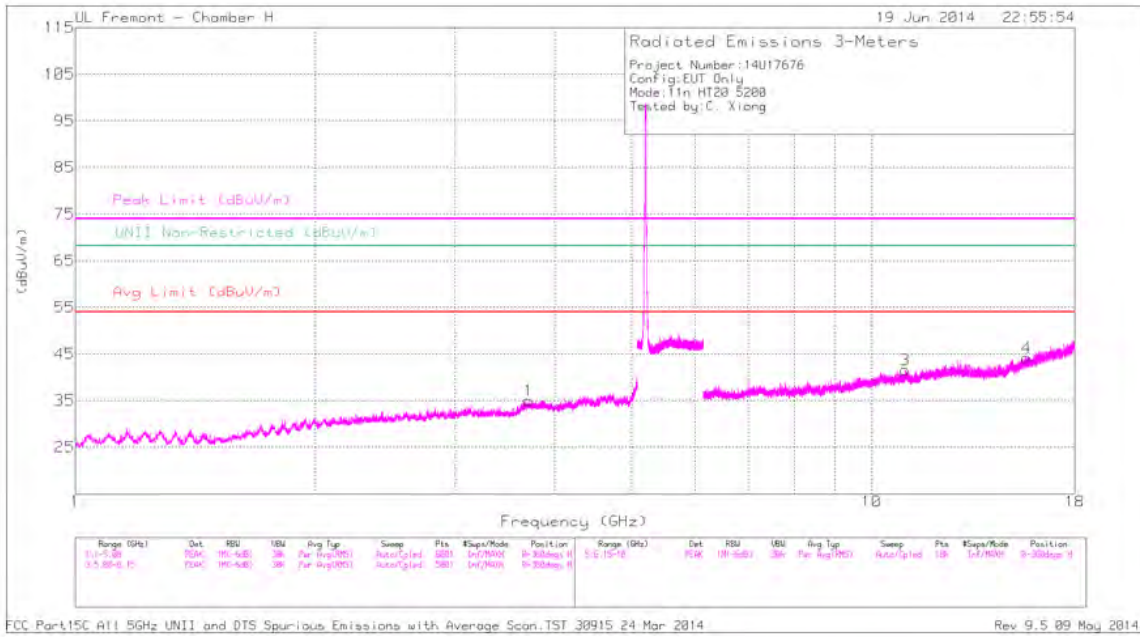
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.486	42.67	PK1	32.2	-34.4	0	40.47	-	-	74	-33.53	-	-	18	148	H
	* 2.484	31.22	AD1	32.2	-34.3	.1	29.22	54	-24.78	-	-	-	-	18	148	H
2	* 3.821	42.62	PK1	33.3	-32.7	0	43.22	-	-	74	-30.78	-	-	26	124	H
	* 3.824	31.15	AD1	33.3	-32.6	.1	31.95	54	-22.05	-	-	-	-	26	124	H
3	* 3.651	41.17	PK1	33	-32.2	0	41.97	-	-	74	-32.03	-	-	64	169	V
	* 3.658	30.8	AD1	33.1	-32.3	.1	31.7	54	-22.3	-	-	-	-	64	169	V
4	* 4.739	42.01	PK1	34.3	-31.5	0	44.81	-	-	74	-29.19	-	-	22	113	V
	* 4.736	30.37	AD1	34.3	-31.5	.1	33.27	54	-20.73	-	-	-	-	22	113	V
5	* 12.125	37.14	PK1	38.9	-25.1	0	50.94	-	-	74	-23.06	-	-	240	179	H
	* 12.131	24.97	AD1	38.9	-25.3	.1	38.67	54	-15.33	-	-	-	-	240	179	H
6	* 15.668	36.99	PK1	40.9	-25	0	52.89	-	-	74	-21.11	-	-	200	223	V
	* 15.664	25.61	AD1	40.9	-25	.1	41.61	54	-12.39	-	-	-	-	200	223	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

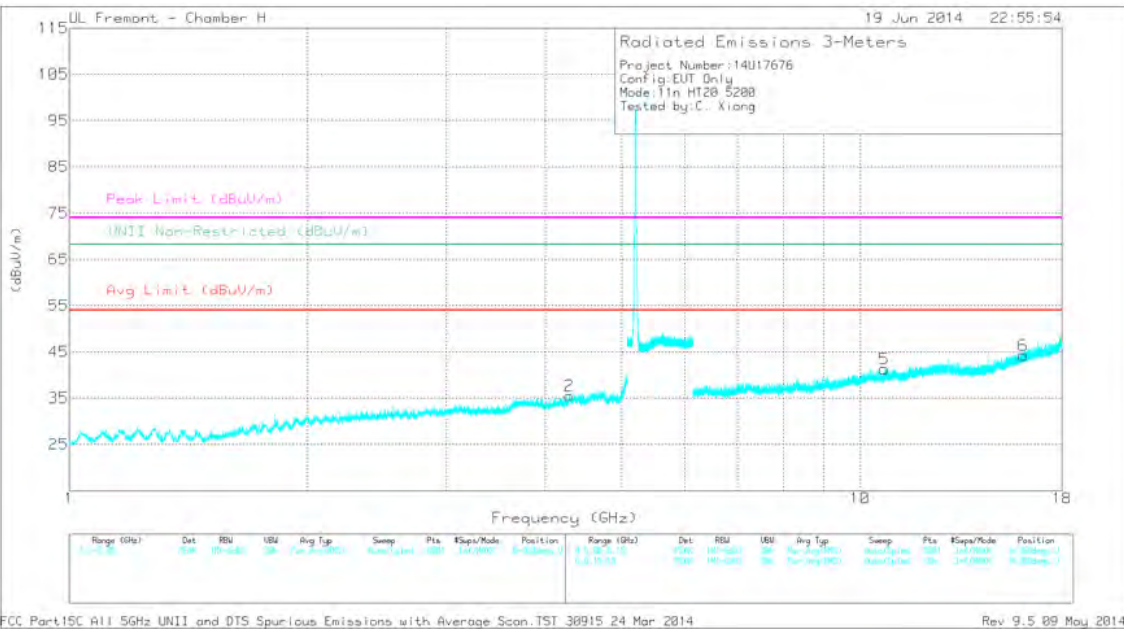
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT, CH 40



MID CHANNEL VERTICAL PLOT, CH 40



DATA

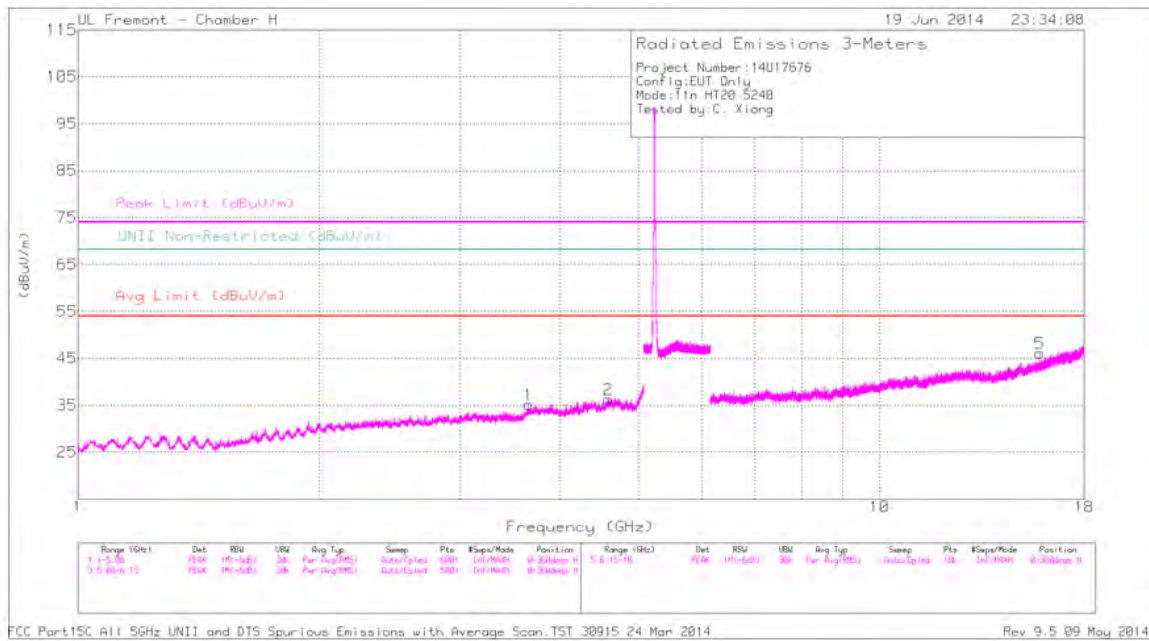
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.709	41.59	PK1	33.1	-32.5	0	42.19	-	-	74	-31.81	-	-	14	118	H
	* 3.712	31.01	AD1	33.1	-32.6	.1	31.61	54	-22.39	-	-	-	-	14	118	H
2	* 4.288	41.36	PK1	33.6	-31.9	0	43.06	-	-	74	-30.94	-	-	32	149	V
	* 4.289	30.72	AD1	33.6	-31.9	.1	32.52	54	-21.48	-	-	-	-	32	149	V
3	* 11.014	36.97	PK1	37.8	-25.4	0	49.37	-	-	74	-24.63	-	-	136	203	H
	* 11.011	25.55	AD1	37.8	-25.5	.1	37.95	54	-16.05	-	-	-	-	136	203	H
4	* 15.662	36.13	PK1	40.9	-25	0	52.03	-	-	74	-21.97	-	-	46	176	H
	* 15.662	25.43	AD1	40.9	-25	.1	41.43	54	-12.57	-	-	-	-	46	176	H
5	* 10.728	36.15	PK1	37.6	-25.3	0	48.45	-	-	74	-25.55	-	-	109	155	V
	* 10.725	25.16	AD1	37.6	-25.3	.1	37.56	54	-16.44	-	-	-	-	109	155	V
6	* 16.071	35.54	PK1	41.2	-24.1	0	52.64	-	-	74	-21.36	-	-	50	111	V
	* 16.071	24.62	AD1	41.2	-24.1	.1	41.82	54	-12.18	-	-	-	-	50	111	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

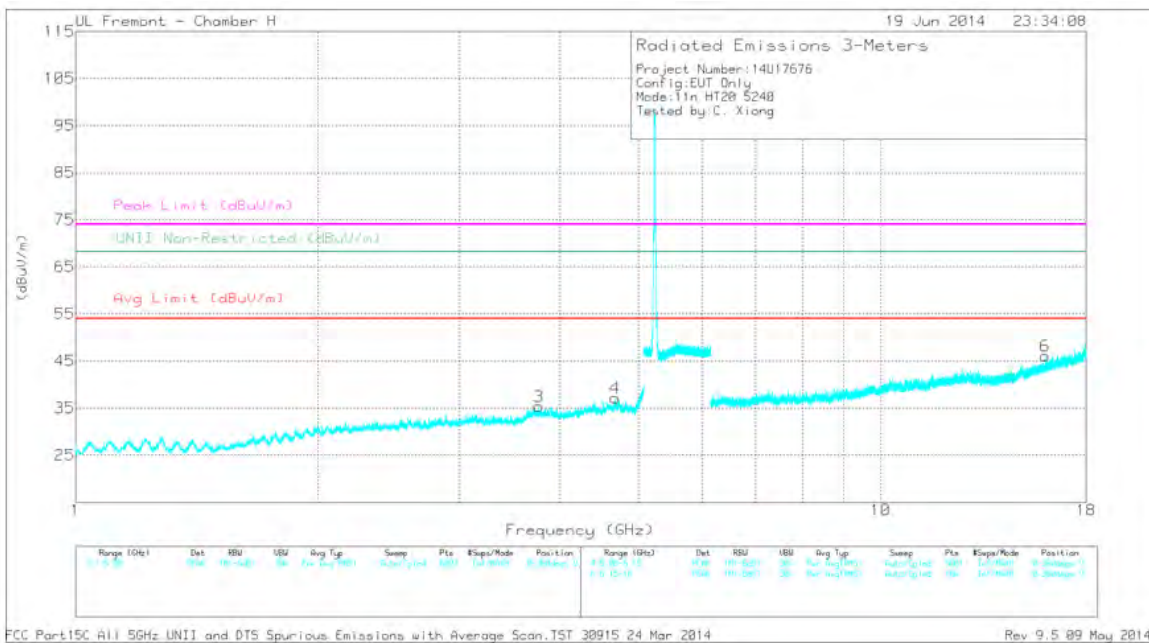
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT, CH 48



HIGH CHANNEL VERTICAL PLOT, CH 48



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.65	41.29	PK1	33	-32.2	0	42.09	-	-	74	-31.91	-	-	15	121	H
	* 3.651	30.66	AD1	33	-32.2	.1	31.56	54	-22.44	-	-	-	-	15	121	H
2	* 4.589	41.98	PK1	34.1	-31.8	0	44.28	-	-	74	-29.72	-	-	201	229	H
	* 4.588	30.85	AD1	34.1	-31.9	.1	33.15	54	-20.85	-	-	-	-	201	229	H
3	* 3.762	42.69	PK1	33.2	-33.1	0	42.79	-	-	74	-31.21	-	-	34	145	V
	* 3.763	31.33	AD1	33.2	-33.1	.1	31.53	54	-22.47	-	-	-	-	34	145	V
4	* 4.686	42.67	PK1	34.2	-32.1	0	44.77	-	-	74	-29.23	-	-	130	128	V
	* 4.679	31.24	AD1	34.2	-32.1	.1	33.44	54	-20.56	-	-	-	-	130	128	V
5	* 15.84	36.04	PK1	41.1	-24.6	0	52.54	-	-	74	-21.46	-	-	168	216	H
	* 15.836	25.39	AD1	41.1	-24.7	.1	41.89	54	-12.11	-	-	-	-	168	216	H
6	* 16.015	36.32	PK1	41.2	-24.4	0	53.12	-	-	74	-20.88	-	-	31	118	V
	* 16.014	25.29	AD1	41.2	-24.3	.1	42.29	54	-11.71	-	-	-	-	31	118	V

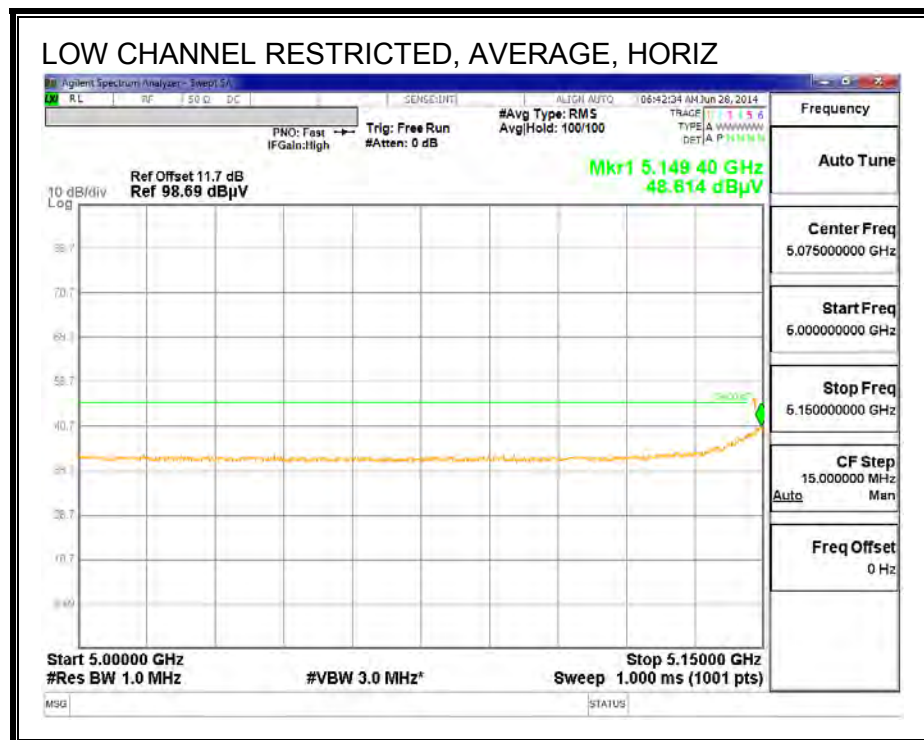
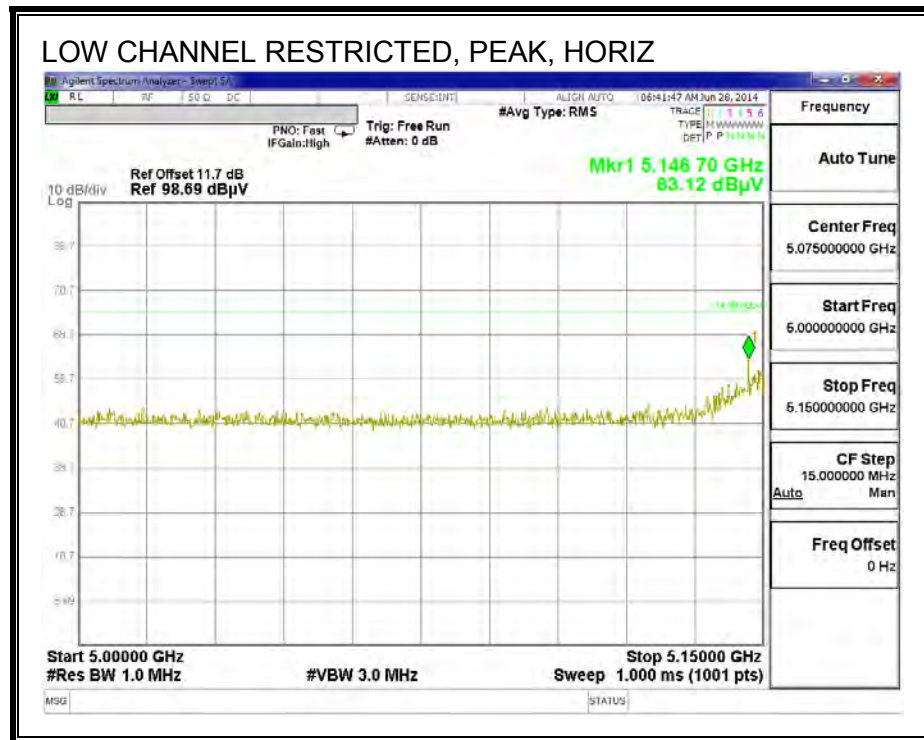
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

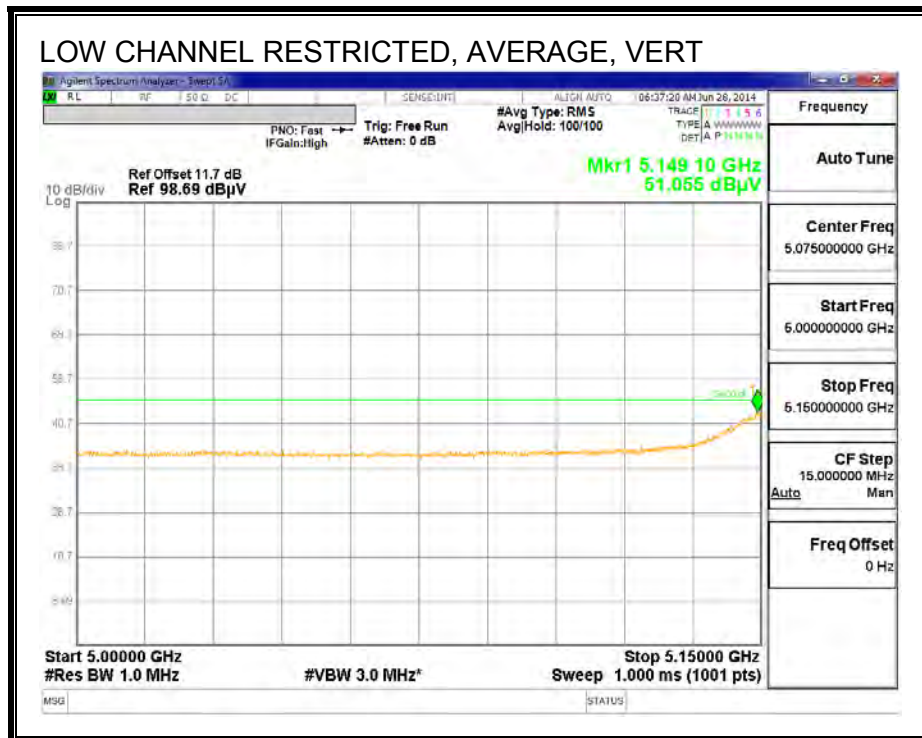
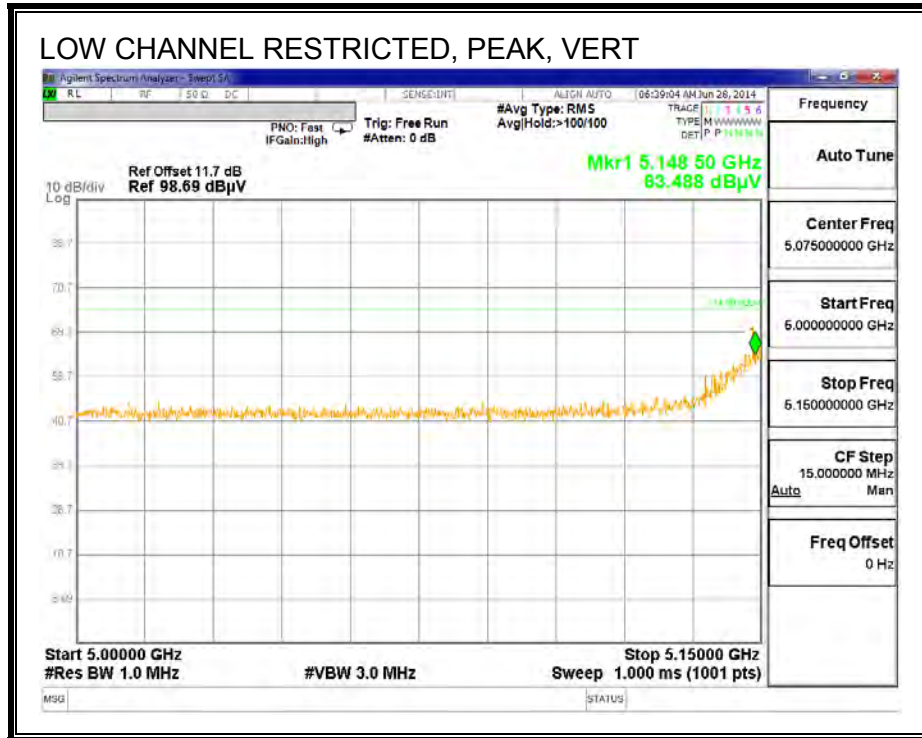
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

10.2.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND

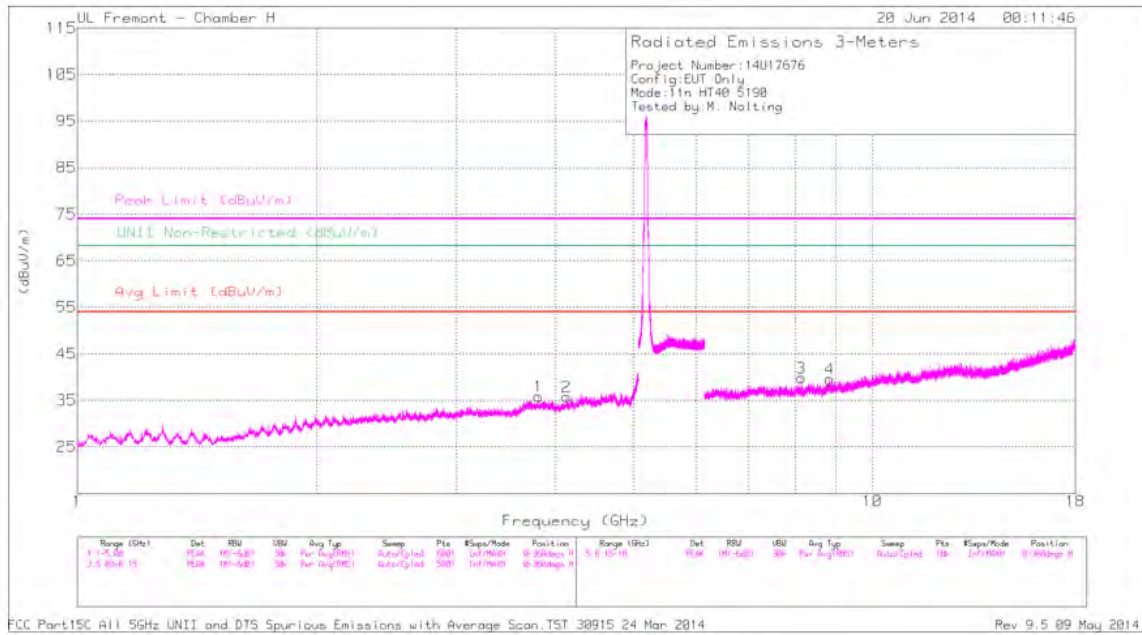
RESTRICTED BANDEDGE (LOW CHANNEL)



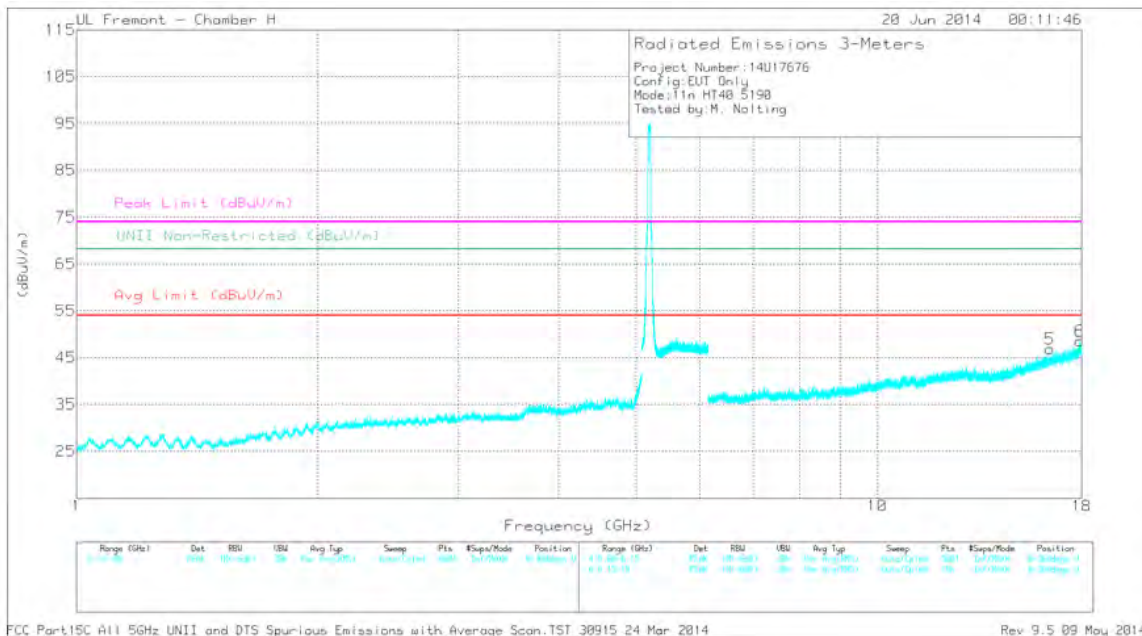


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT, CH 38



LOW CHANNEL VERTICAL PLOT, CH 38



DATA

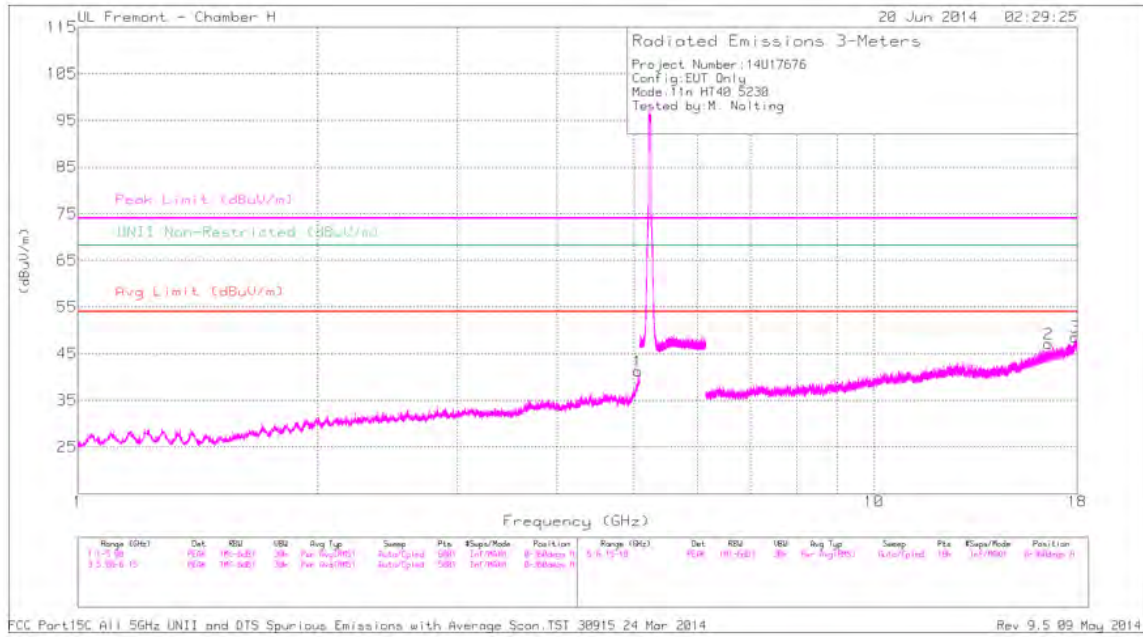
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Af T863 (dB/m)	Amp/Cb/Filt /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.797	41.78	PK1	33.3	-32.9	42.18	-	-	74	-31.82	-	-	306	354	H
	* 3.802	30.46	AD1	33.3	-32.8	30.96	54	-23.04	-	-	-	-	306	354	H
2	* 4.124	41.22	PK1	33.5	-32.1	42.62	-	-	74	-31.38	-	-	93	100	H
	* 4.127	29.94	AD1	33.5	-32.1	31.34	54	-22.66	-	-	-	-	93	100	H
3	* 8.145	38.62	PK1	36.1	-28.7	46.02	-	-	74	-27.98	-	-	142	100	H
	* 8.143	27.29	AD1	36.1	-28.7	34.69	54	-19.31	-	-	-	-	142	100	H
6	* 17.913	34.01	PK1	42.5	-20.7	55.81	-	-	74	-18.19	-	-	2	202	V
	* 17.91	22.86	AD1	42.5	-20.9	44.46	54	-9.54	-	-	-	-	2	202	V
4	8.845	37.85	PK1	36.3	-27.4	46.75	-	-	-	-	68.2	-21.45	351	201	H
	8.848	26.25	AD1	36.3	-27.4	35.15	-	-	-	-	-	-	351	201	H
5	16.421	35.65	PK1	41.6	-23.9	53.35	-	-	-	-	68.2	-14.85	180	100	V
	16.423	24.59	AD1	41.6	-23.9	42.29	-	-	-	-	-	-	180	100	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

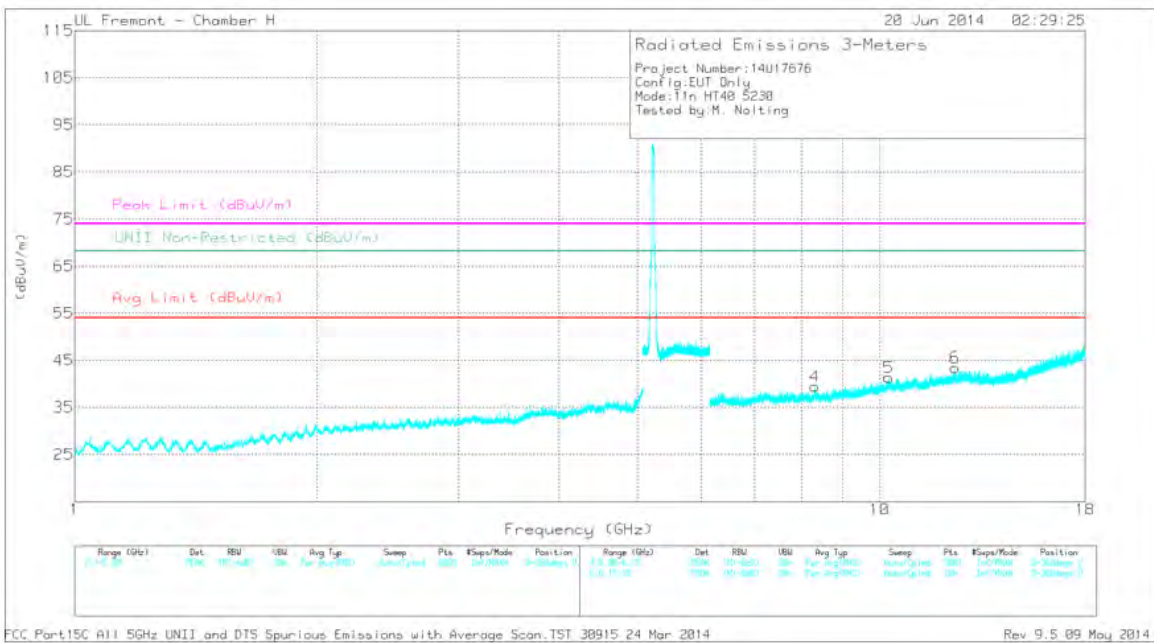
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT, CH 46



HIGH CHANNEL VERTICAL PLOT, CH 46



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.048	43.53	PK1	34.4	-29.8	48.13	-	-	74	-25.87	-	-	121	160	H
	* 5.062	32.63	AD1	34.4	-29.1	37.93	54	-16.07	-	-	-	-	121	160	H
3	* 17.907	34.58	PK1	42.5	-20.9	56.18	-	-	74	-17.82	-	-	52	100	H
	* 17.898	22.99	AD1	42.5	-21.1	44.39	54	-9.61	-	-	-	-	52	100	H
4	* 8.313	37.77	PK1	36.1	-27.1	46.77	-	-	74	-27.23	-	-	124	202	V
	* 8.307	26.51	AD1	36.1	-27.2	35.41	54	-18.59	-	-	-	-	124	202	V
6	* 12.401	36.38	PK1	39.1	-25.1	50.38	-	-	74	-23.62	-	-	161	100	V
	* 12.4	25.26	AD1	39.1	-25.1	39.26	54	-14.74	-	-	-	-	161	100	V
5	10.262	36.55	PK1	37.4	-25.1	48.85	-	-	-	-	68.2	-19.35	82	202	V
	10.261	25.16	AD1	37.4	-25.1	37.46	-	-	-	-	-	-	82	202	V
2	16.576	35.75	PK1	42	-24.3	53.45	-	-	-	-	68.2	-14.75	329	100	H
	16.574	23.92	AD1	41.9	-24.3	41.52	-	-	-	-	-	-	329	100	H

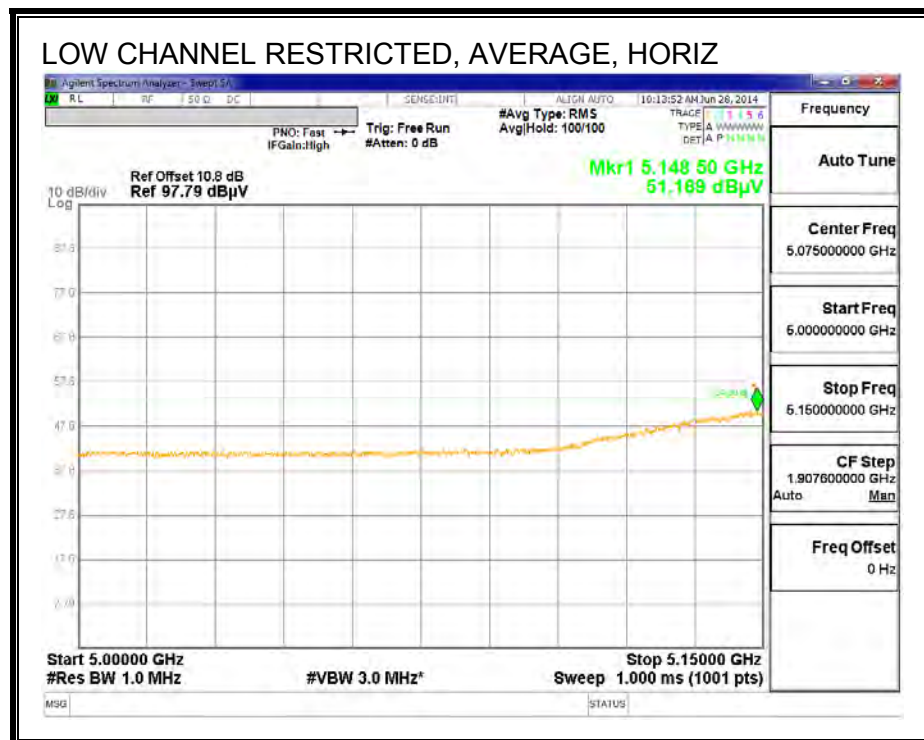
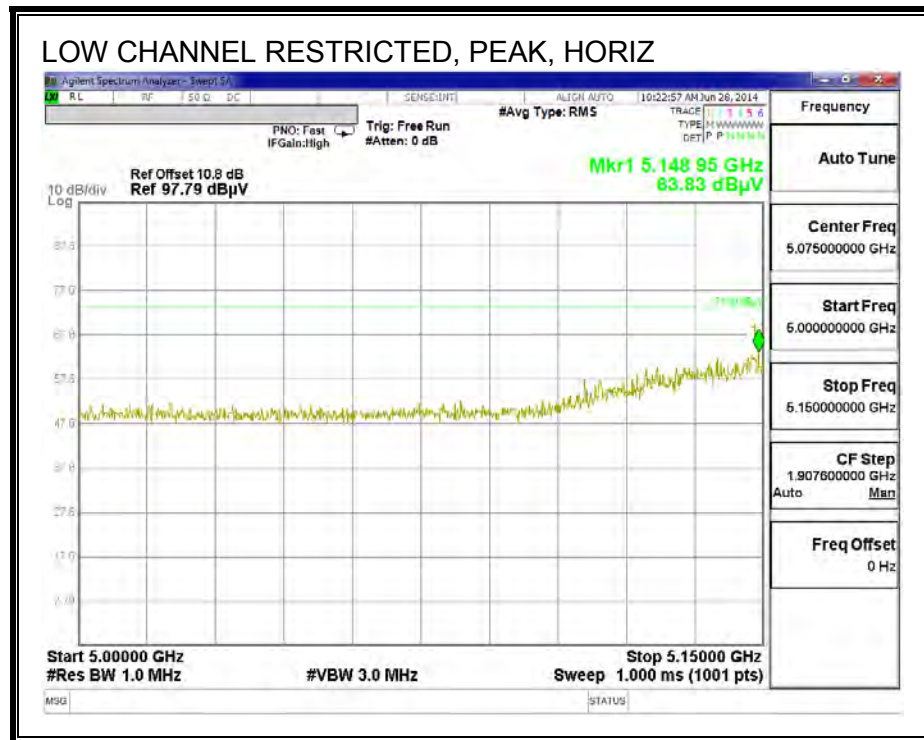
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

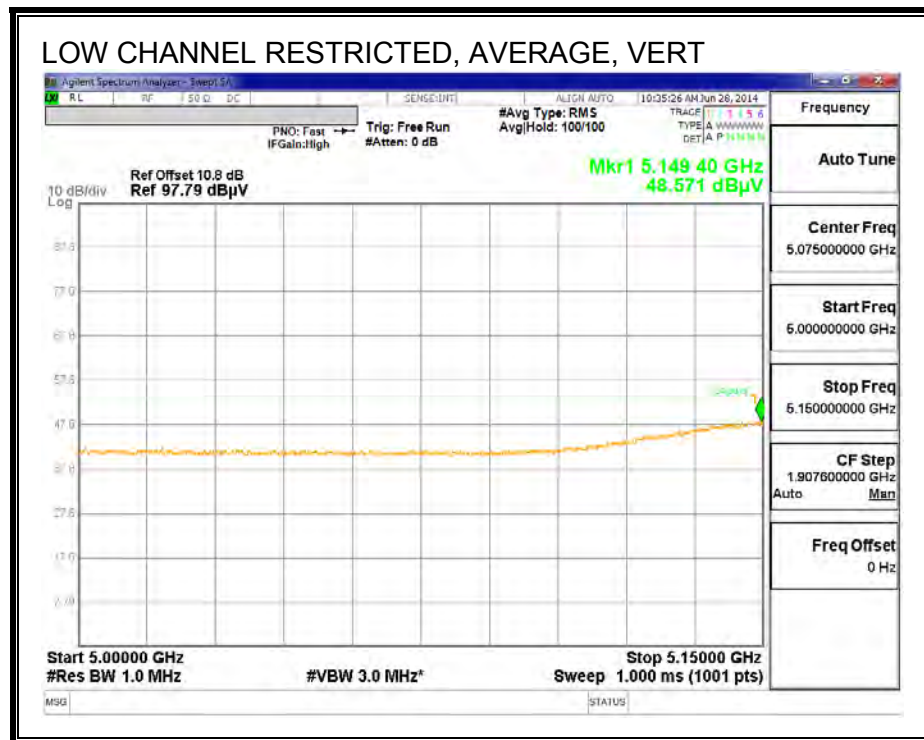
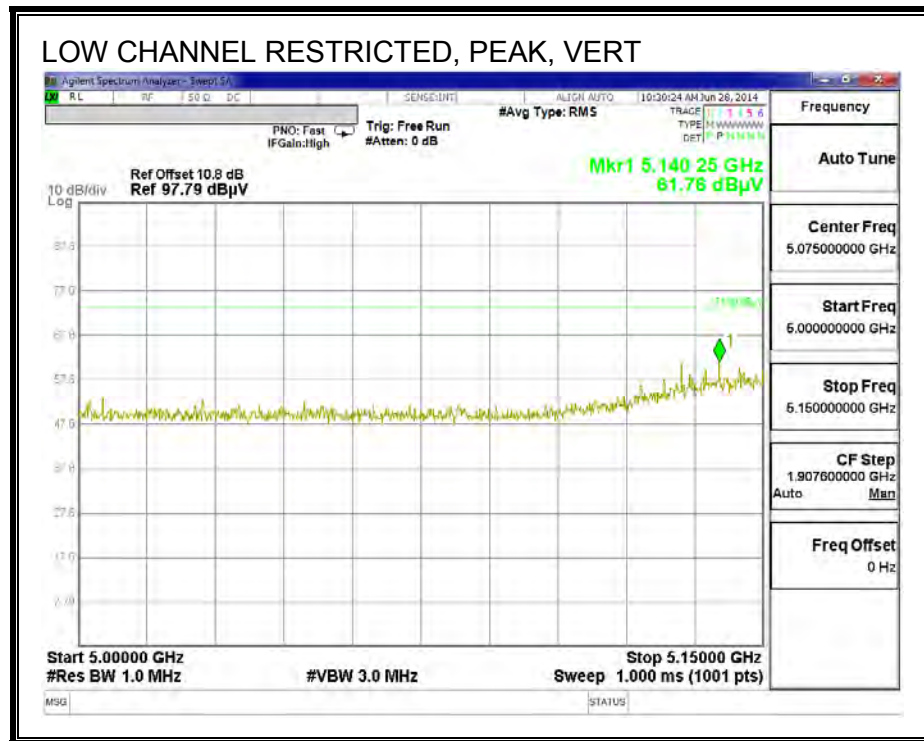
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

10.2.4. TX ABOVE 1G 802.11ac 80MHz MODE IN THE 5.2 GHz BAND

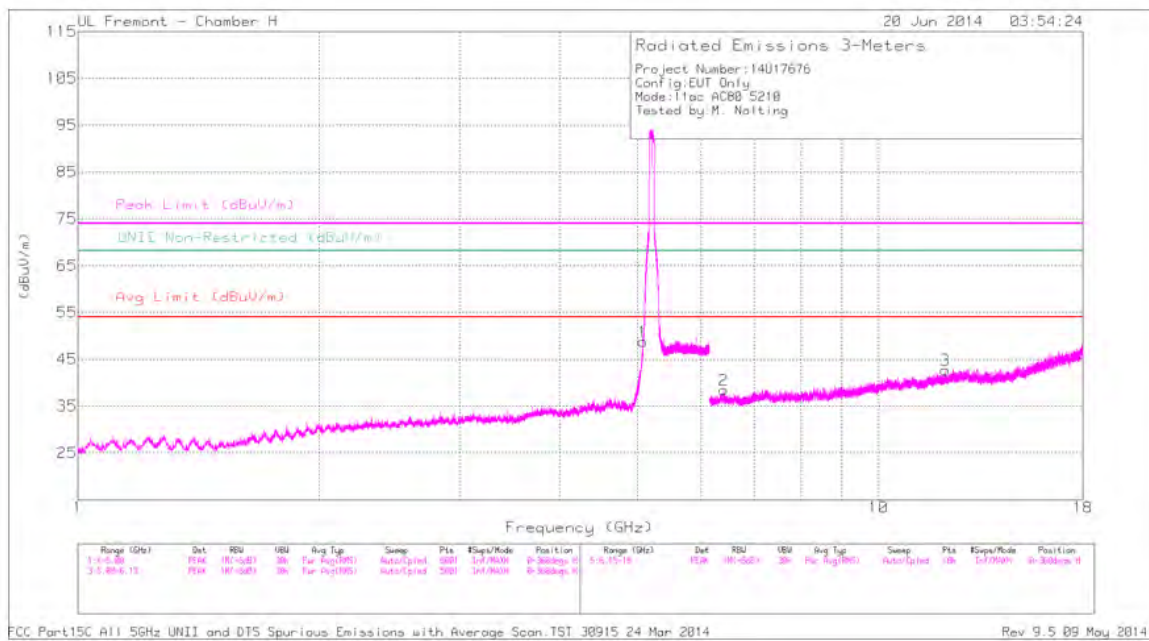
RESTRICTED BANDEDGE (LOW CHANNEL, CH 42)



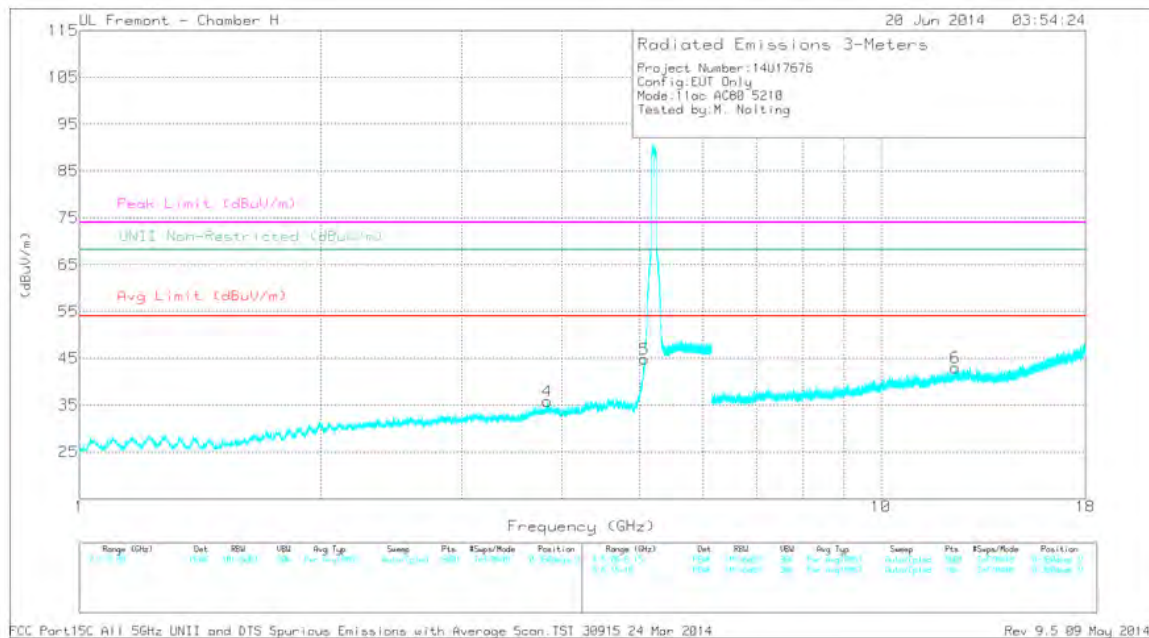


HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT, CH 42



HIGH CHANNEL VERTICAL PLOT, CH 46



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.074	52.27	PK1	34.4	-28.6	0	58.07	-	-	74	-15.93	-	-	162	183	H
	* 5.079	38.19	AD1	34.4	-28.3	.2	44.49	54	-9.51	-	-	-	-	162	183	H
4	* 3.832	42.2	PK1	33.3	-32.8	0	42.7	-	-	74	-31.3	-	-	152	201	V
	* 3.836	30.94	AD1	33.3	-32.9	.2	31.54	54	-22.46	-	-	-	-	152	201	V
5	* 5.073	52.61	PK1	34.4	-28.7	0	58.31	-	-	74	-15.69	-	-	101	303	V
	* 5.075	37.55	AD1	34.4	-28.6	.2	43.55	54	-10.45	-	-	-	-	101	303	V
3	* 12.113	36.55	PK1	38.9	-25	0	50.45	-	-	74	-23.55	-	-	105	203	H
	* 12.108	24.65	AD1	38.9	-25	.2	38.75	54	-15.25	-	-	-	-	105	203	H
6	* 12.391	37.52	PK1	39.1	-25.2	0	51.42	-	-	74	-22.58	-	-	39	200	V
	* 12.388	25.43	AD1	39.1	-25.3	.2	39.43	54	-14.57	-	-	-	-	39	200	V
2	6.406	29.53	AD1	35.5	-30.7	.2	34.53	-	-	-	-	-	-	321	201	H
	6.407	40.74	PK1	35.5	-30.7	0	45.54	-	-	-	-	68.2	-22.66	321	201	H

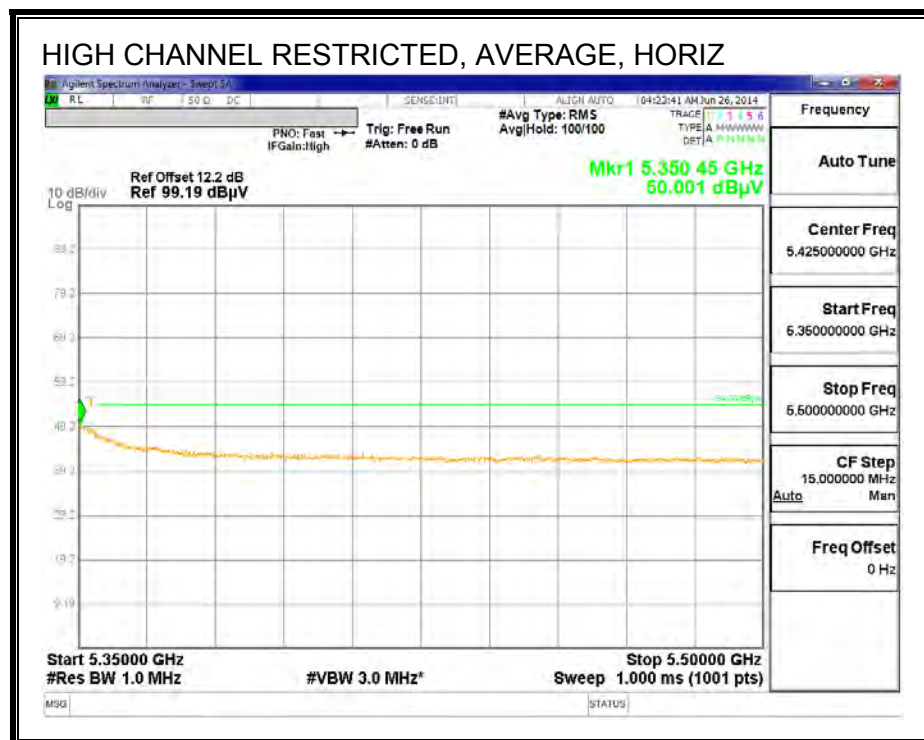
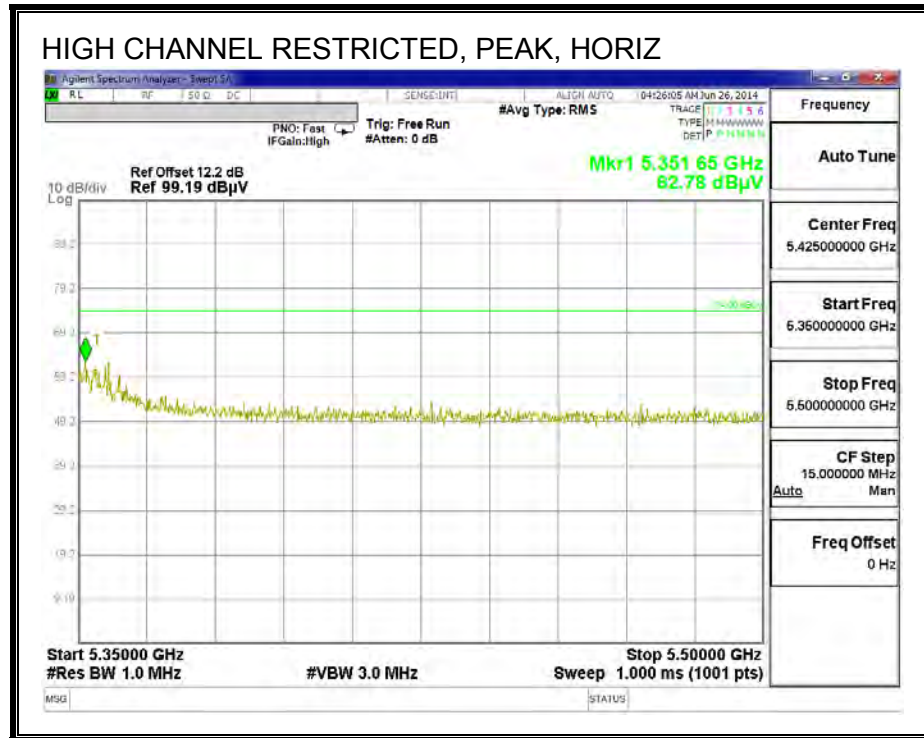
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

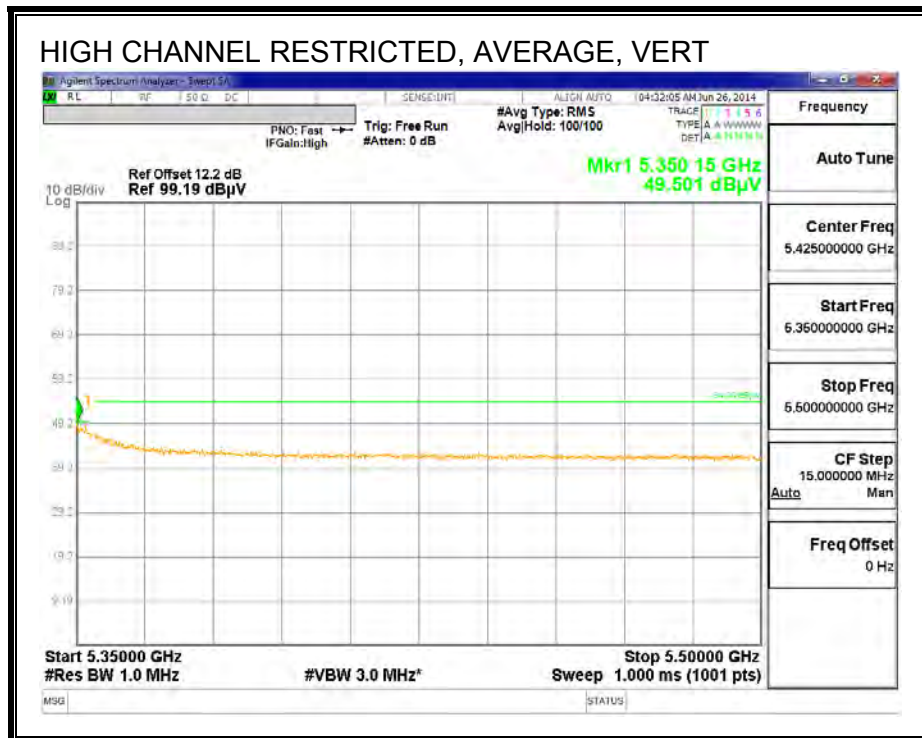
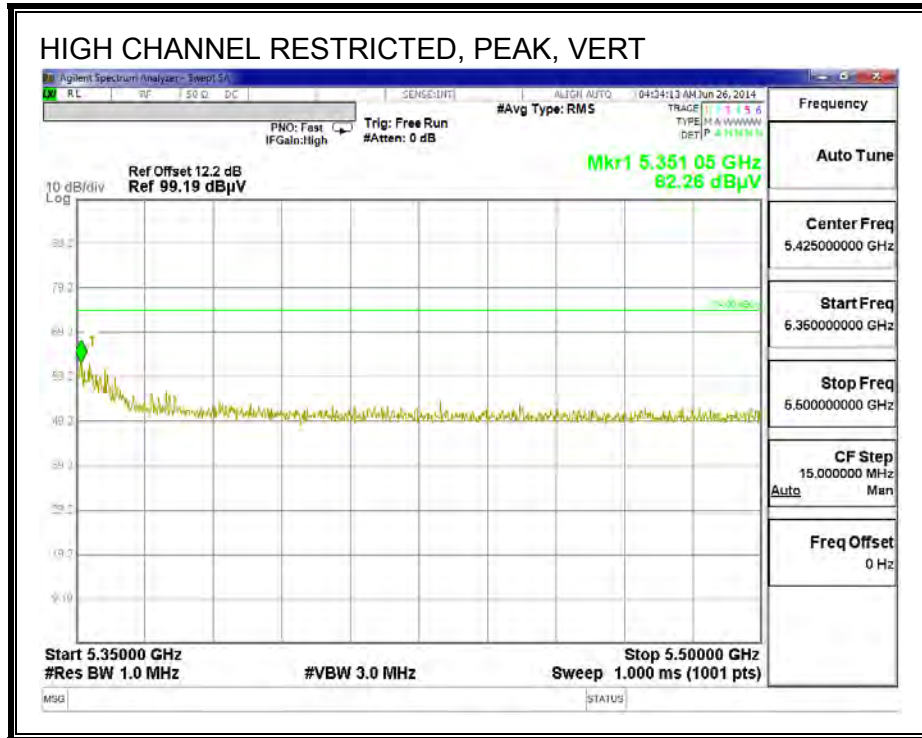
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

10.2.5. TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND

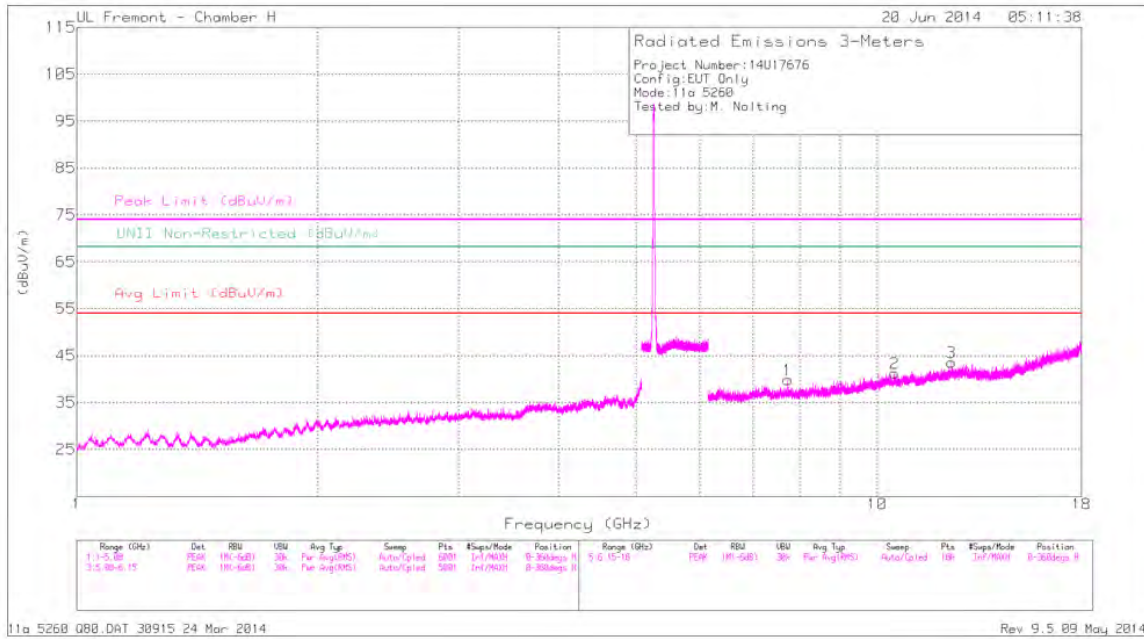
RESTRICTED BANEDGE (HIGH CHANNEL)



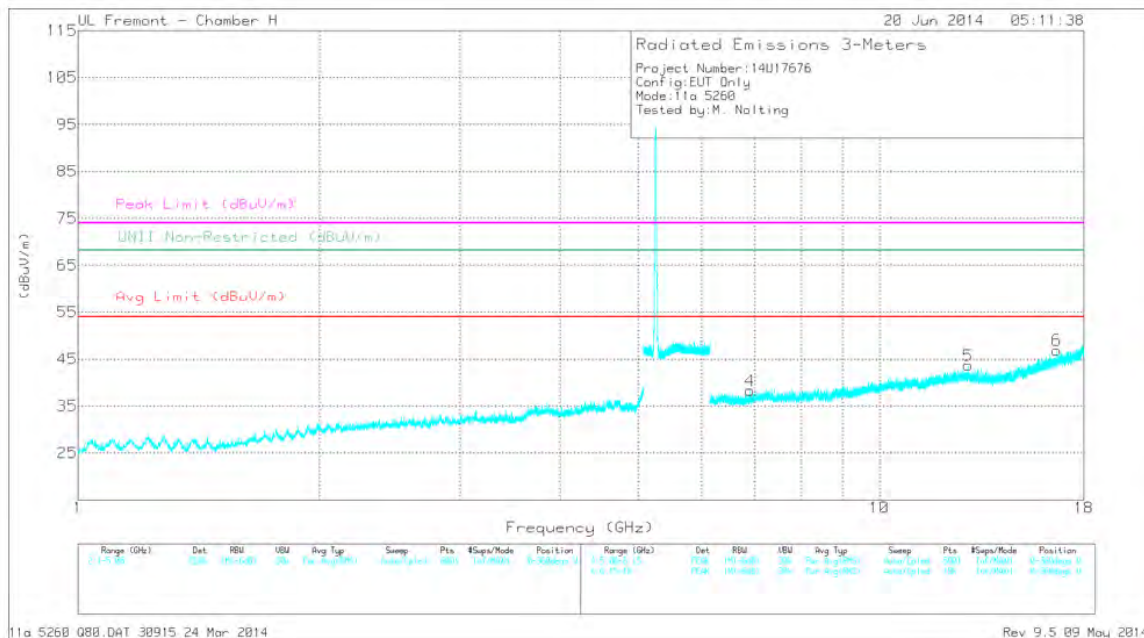


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT, CH 52



LOW CHANNEL VERTICAL PLOT, CH 52



DATA

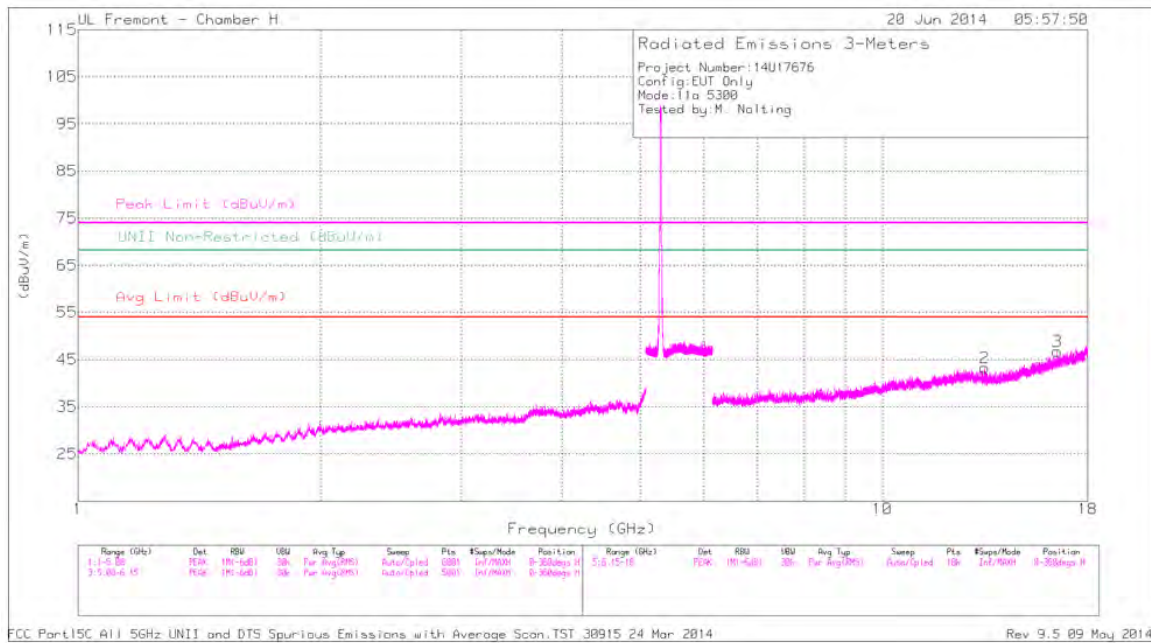
Marker	Frequency(G Hz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 7.74	39.43	PK1	36.1	-29.5	46.03	-	-	74	-27.97	-	-	163	105	H
	* 7.737	28.18	AD1	36.1	-29.5	34.78	54	-19.22	-	-	-	-	163	105	H
3	* 12.389	36.55	PK1	39.1	-25.2	50.45	-	-	74	-23.55	-	-	213	199	H
	* 12.385	25.42	AD1	39.1	-25.3	39.22	54	-14.78	-	-	-	-	213	199	H
4	6.888	28.81	AD1	35.8	-30.7	33.91	-	-	-	-	-	-	37	202	V
	6.889	40.41	PK1	35.8	-30.8	45.41	-	-	-	-	68.2	-22.79	37	202	V
2	10.518	37.53	PK1	37.6	-25.6	49.53	-	-	-	-	68.2	-18.67	1	101	H
	10.523	25.47	AD1	37.6	-25.6	37.47	-	-	-	-	-	-	1	101	H
5	12.902	36.29	PK1	39.2	-25.1	50.39	-	-	-	-	68.2	-17.81	254	200	V
	12.906	25.14	AD1	39.2	-25	39.34	-	-	-	-	-	-	254	200	V
6	16.655	35.75	PK1	42.1	-24.4	53.45	-	-	-	-	68.2	-14.75	2	100	V
	16.659	24.68	AD1	42.1	-24.3	42.48	-	-	-	-	-	-	2	100	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

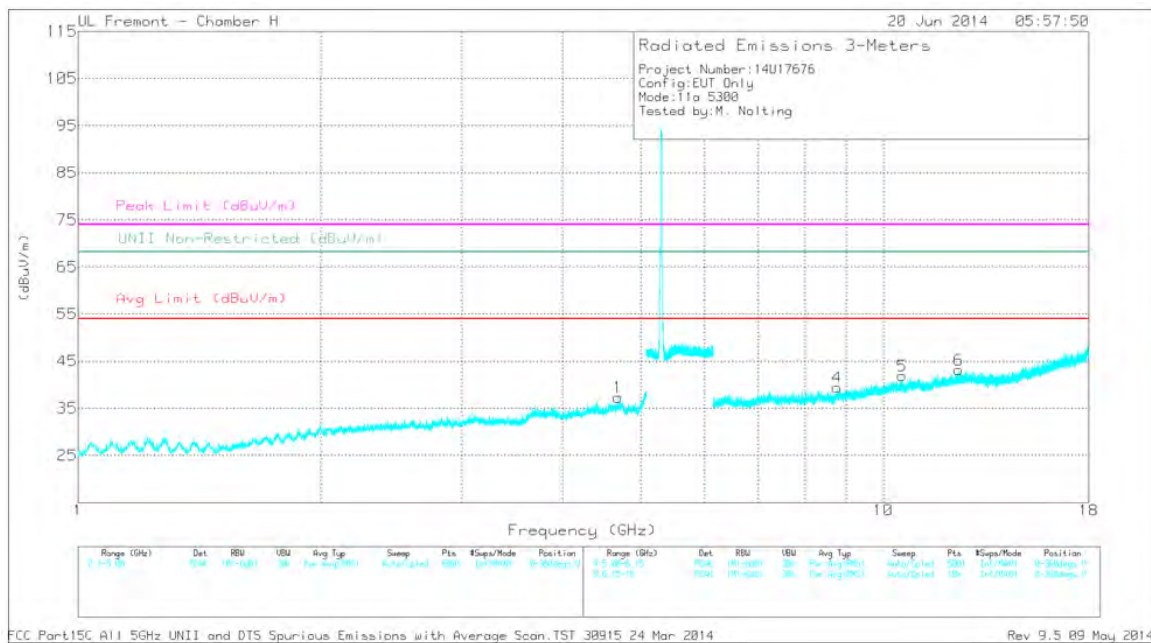
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT, CH 60



MID CHANNEL VERTICAL PLOT, CH 60



DATA

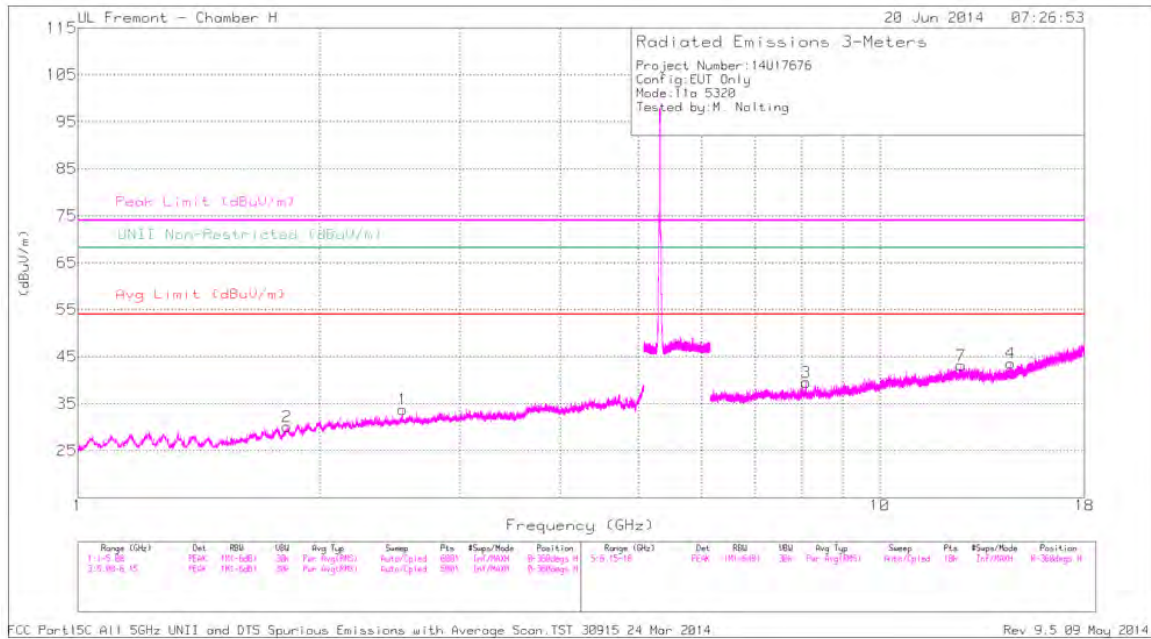
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/Filt /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.682	42.45	PK1	34.2	-32.1	44.55	-	-	74	-29.45	-	-	350	201	V
	* 4.686	31.3	AD1	34.2	-32.1	33.4	54	-20.6	-	-	-	-	350	201	V
6	* 12.403	36.69	PK1	39.1	-25.2	50.59	-	-	74	-23.41	-	-	307	103	V
	* 12.399	25.28	AD1	39.1	-25.1	39.28	54	-14.72	-	-	-	-	307	103	V
4	8.765	26.53	AD1	36.2	-27.4	35.33	-	-	-	-	-	-	80	102	V
	8.768	37.82	PK1	36.2	-27.4	46.62	-	-	-	-	68.2	-21.58	80	102	V
5	10.552	36.1	PK1	37.6	-25	48.7	-	-	-	-	68.2	-19.5	186	200	V
	10.553	24.91	AD1	37.6	-25	37.51	-	-	-	-	-	-	186	200	V
2	13.408	36.84	PK1	39.1	-26.3	49.64	-	-	-	-	68.2	-18.56	117	199	H
	13.404	25.31	AD1	39.1	-26.3	38.11	-	-	-	-	-	-	117	199	H
3	16.493	35.75	PK1	41.8	-24.1	53.45	-	-	-	-	68.2	-14.75	1	100	H
	16.494	24.22	AD1	41.8	-24.1	41.92	-	-	-	-	-	-	1	100	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

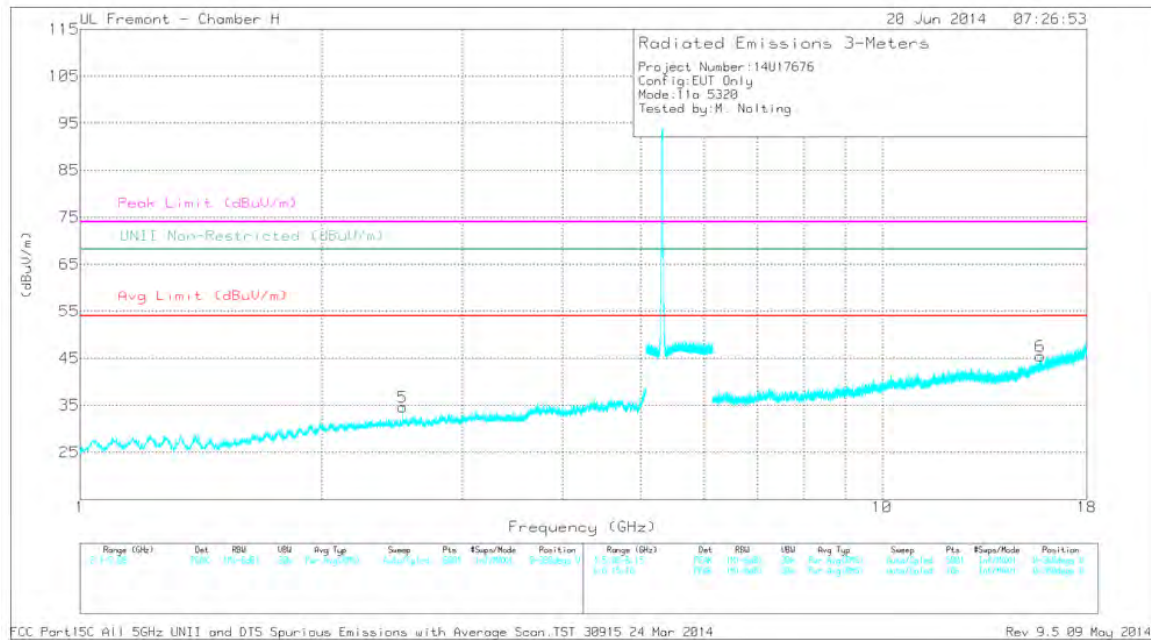
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT, CH 64



HIGH CHANNEL VERTICAL PLOT, CH 64



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 8.097	38.68	PK1	36	-28.3	46.38	-	-	74	-27.62	-	-	174	202	H
	* 8.093	26.98	AD1	36	-28.3	34.68	54	-19.32	-	-	-	-	174	202	H
7	* 12.629	36.6	PK1	39.2	-25.2	50.6	-	-	74	-23.4	-	-	337	205	H
	* 12.632	25.17	AD1	39.2	-25.2	39.17	54	-14.83	-	-	-	-	337	205	H
6	* 15.753	35.86	PK1	41	-25	51.86	-	-	74	-22.14	-	-	138	202	V
	* 15.744	24.46	AD1	41	-25	40.46	54	-13.54	-	-	-	-	138	202	V
2	1.823	42.7	PK1	30.2	-35	37.9	-	-	-	-	68.2	-30.3	174	101	H
	1.823	31.61	AD1	30.2	-35	26.81	-	-	-	-	-	-	174	101	H
5	2.521	41.94	PK1	32.2	-34.1	40.04	-	-	-	-	68.2	-28.16	269	103	V
	2.529	30.6	AD1	32.2	-33.9	28.9	-	-	-	-	-	-	269	103	V
1	2.549	43	PK1	32.2	-33.7	41.5	-	-	-	-	68.2	-26.7	148	105	H
	2.533	30.75	AD1	32.2	-33.9	29.05	-	-	-	-	-	-	148	105	H
4	14.567	37.83	PK1	39.9	-26.7	51.03	-	-	-	-	68.2	-17.17	183	100	H
	14.568	25.96	AD1	39.9	-26.7	39.16	-	-	-	-	-	-	183	100	H

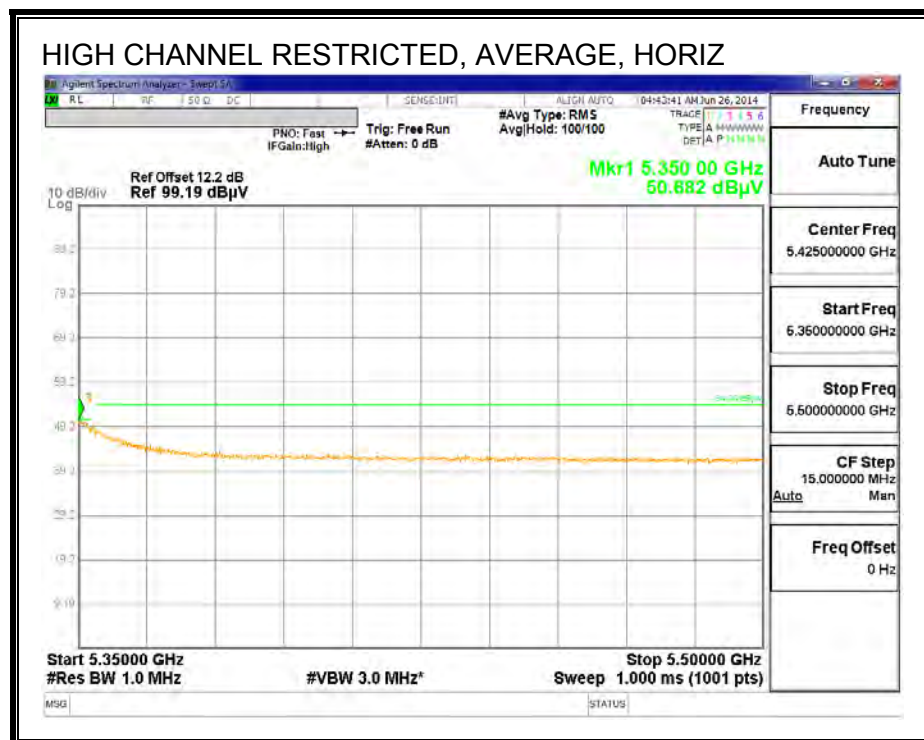
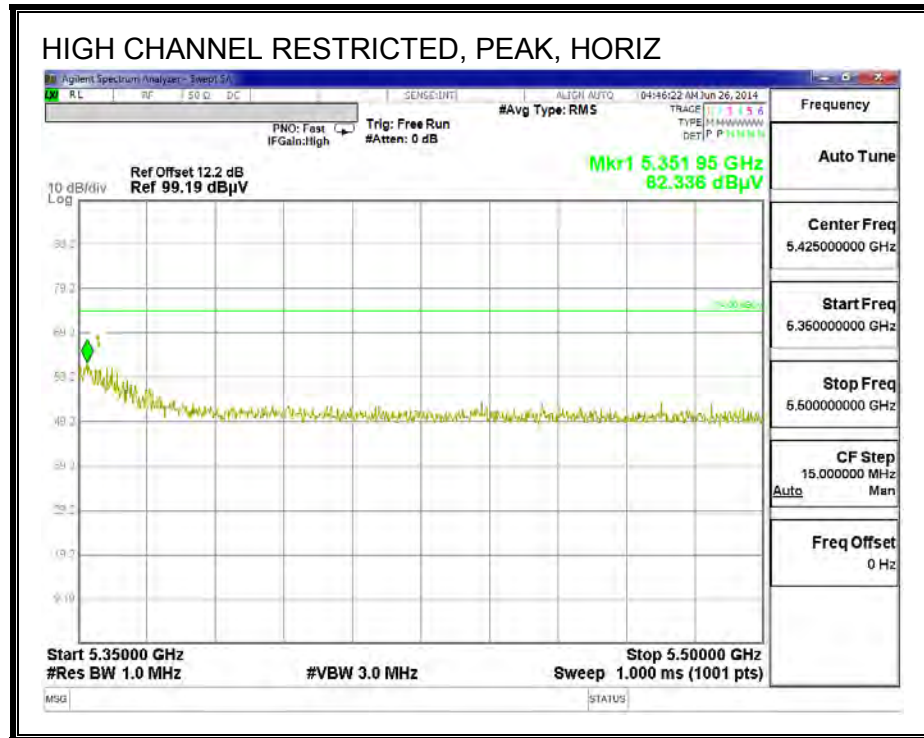
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

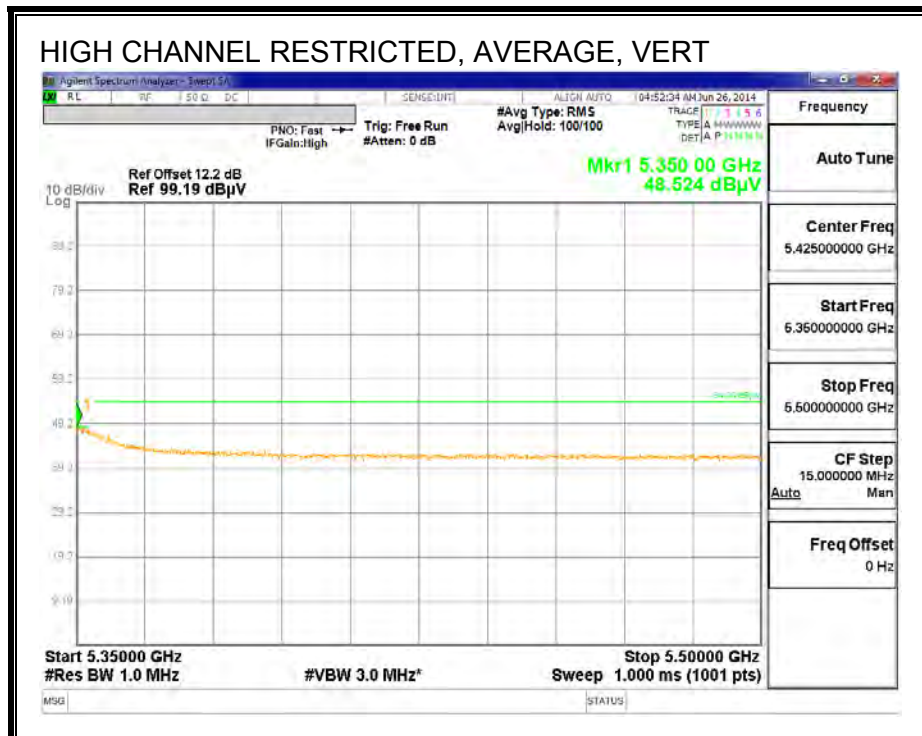
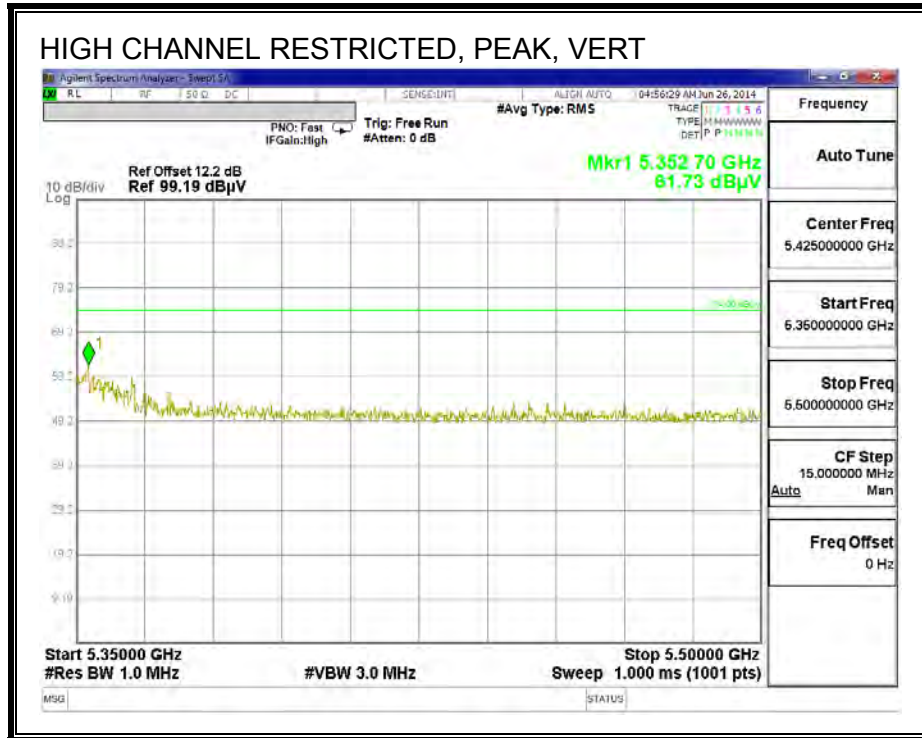
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

10.2.6. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND

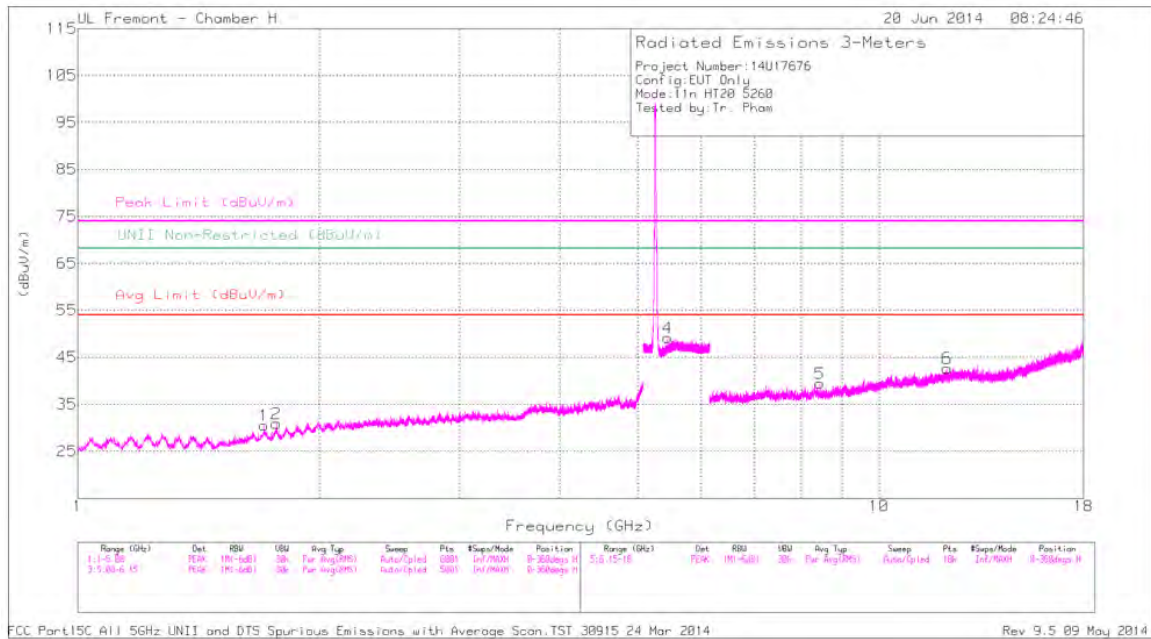
RESTRICTED BANDEDGE (HIGH CHANNEL)



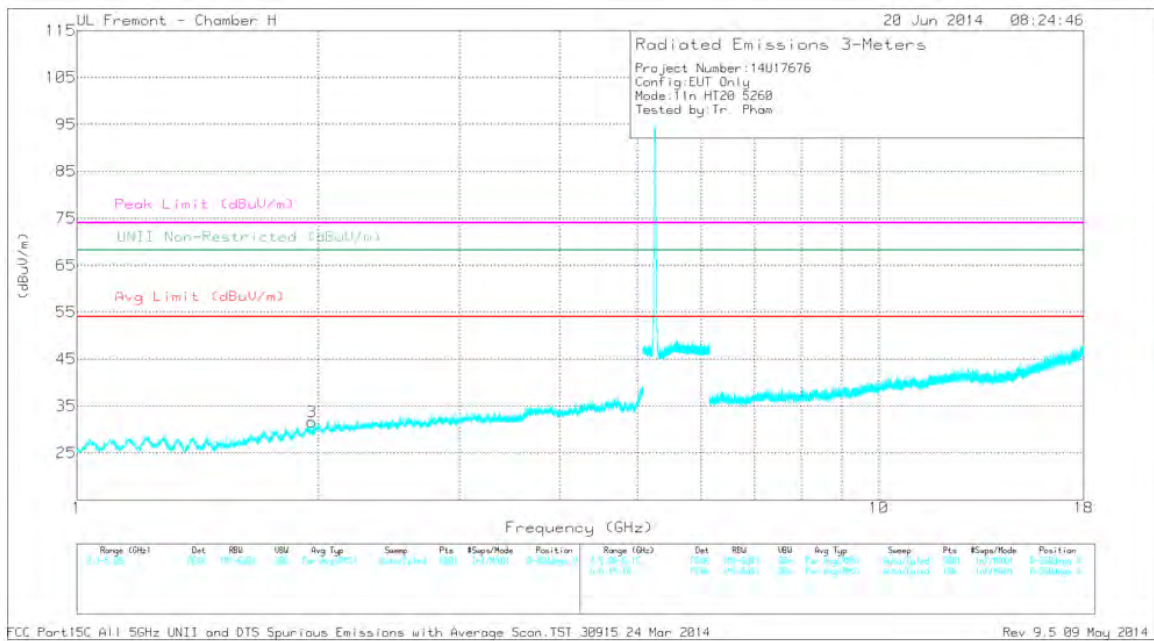


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT, CH 52



LOW CHANNEL VERTICAL PLOT, CH 52



DATA

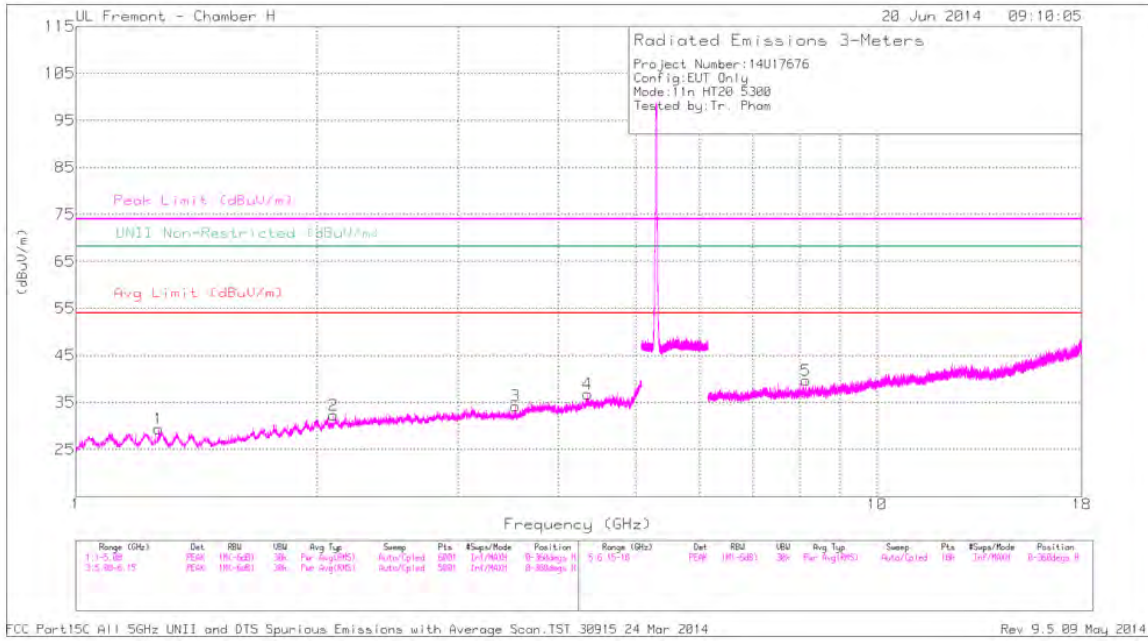
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.709	43.22	PK1	29.4	-34.3	38.32	-	-	74	-35.68	-	-	110	181	H
	* 1.708	31.39	AD1	29.4	-34.3	26.49	54	-27.51	-	-	-	-	110	181	H
4	* 5.452	41.59	PK1	35	-22.5	54.09	-	-	74	-19.91	-	-	232	201	H
	* 5.453	29.36	AD1	35	-22.5	41.86	54	-12.14	-	-	-	-	232	201	H
5	* 8.439	39.61	PK1	36.1	-29	46.71	-	-	74	-27.29	-	-	225	173	H
	* 8.439	27.69	AD1	36.1	-29	34.79	54	-19.21	-	-	-	-	225	173	H
6	* 12.164	37.54	PK1	38.9	-25.3	51.14	-	-	74	-22.86	-	-	262	201	H
	* 12.165	24.93	AD1	38.9	-25.3	38.53	54	-15.47	-	-	-	-	262	201	H
2	1.77	43.64	PK1	29.8	-34.6	38.84	-	-	-	-	68.2	-29.36	232	323	H
3	1.965	42.62	PK1	31.1	-34.6	39.12	-	-	-	-	68.2	-29.08	232	249	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

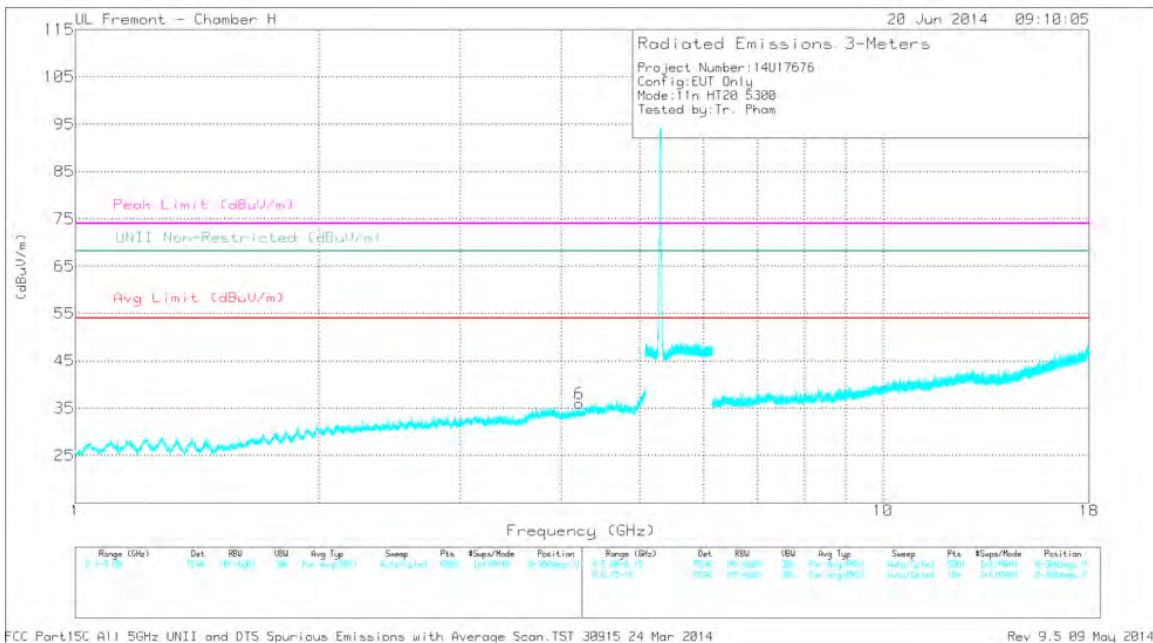
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT, CH 60



MID CHANNEL VERTICAL PLOT, CH 60



DATA

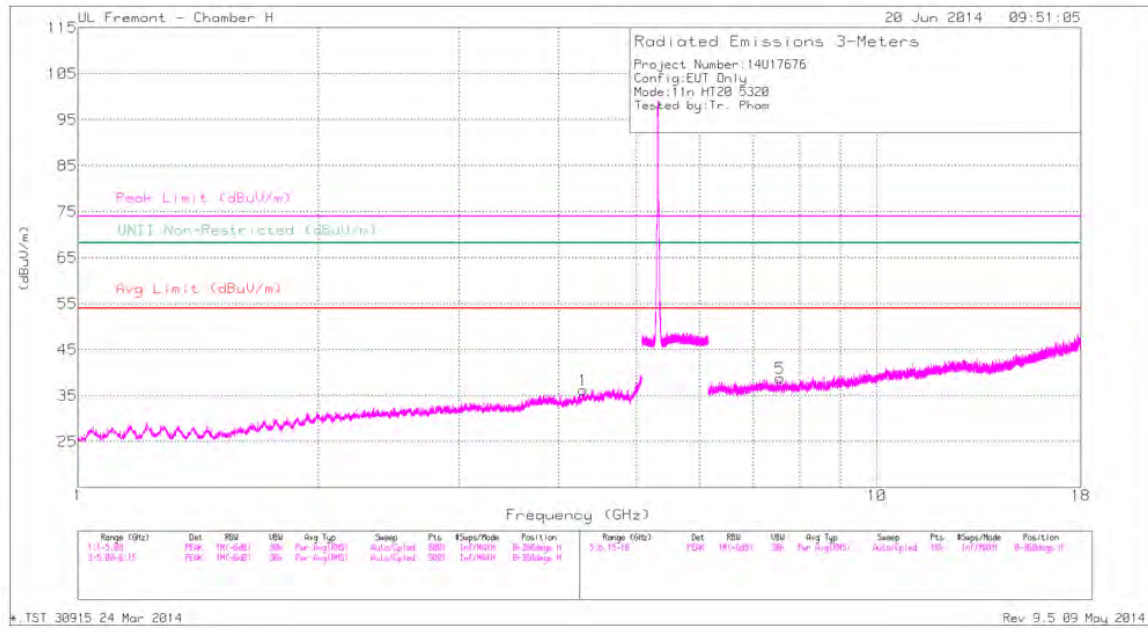
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fi tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.269	44.06	PK1	28.9	-35.6	37.36	-	-	74	-36.64	-	-	360	339	H
	* 1.269	31.6	AD1	28.9	-35.6	24.9	54	-29.1	-	-	-	-	360	339	H
3	* 3.537	42.15	PK1	32.9	-33.5	41.55	-	-	74	-32.45	-	-	49	160	H
	* 3.537	30.3	AD1	32.9	-33.5	29.7	54	-24.3	-	-	-	-	49	160	H
4	* 4.353	41.26	PK1	33.7	-31.5	43.46	-	-	74	-30.54	-	-	92	246	H
	* 4.353	29.65	AD1	33.7	-31.5	31.85	54	-22.15	-	-	-	-	92	246	H
6	* 4.212	41.46	PK1	33.5	-32.9	42.06	-	-	74	-31.94	-	-	116	147	V
	* 4.212	29.75	AD1	33.5	-32.9	30.35	54	-23.65	-	-	-	-	116	147	V
5	* 8.15	39.69	PK1	36.1	-28.9	46.89	-	-	74	-27.11	-	-	116	225	H
	* 8.149	27.21	AD1	36.1	-28.9	34.41	54	-19.59	-	-	-	-	116	225	H
2	2.097	43.1	PK1	31.5	-34.5	40.1	-	-	-	-	68.2	-28.1	360	142	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

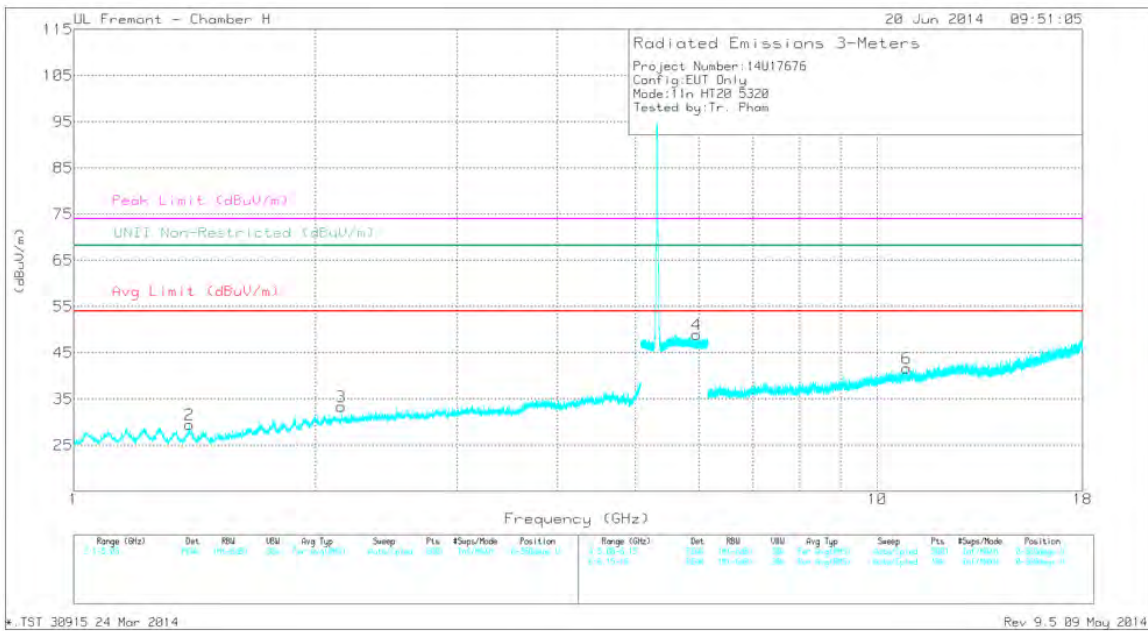
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT, CH 64



HIGH CHANNEL VERTICAL PLOT, CH 64



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.286	42.45	PK1	33.6	-31.9	44.15	-	-	74	-29.85	-	-	16	158	H
	* 4.286	29.97	AD1	33.6	-31.9	31.67	54	-22.33	-	-	-	-	16	158	H
2	* 1.394	43.81	PK1	28.3	-35	37.11	-	-	74	-36.89	-	-	25	140	V
	* 1.394	32	AD1	28.3	-35.1	25.2	54	-28.8	-	-	-	-	25	140	V
5	* 7.566	39.24	PK1	36.1	-29.1	46.24	-	-	74	-27.76	-	-	203	388	H
	* 7.566	27.7	AD1	36.1	-29.1	34.7	54	-19.3	-	-	-	-	203	388	H
6	* 10.868	37.31	PK1	37.7	-25.5	49.51	-	-	74	-24.49	-	-	203	344	V
	* 10.868	24.88	AD1	37.7	-25.5	37.08	54	-16.92	-	-	-	-	203	344	V
3	2.153	43.37	PK1	31.5	-34.7	40.17	-	-	-	-	68.2	-28.03	50	172	V
4	5.955	41.46	PK1	35.2	-22.2	54.46	-	-	-	-	68.2	-13.74	50	146	V

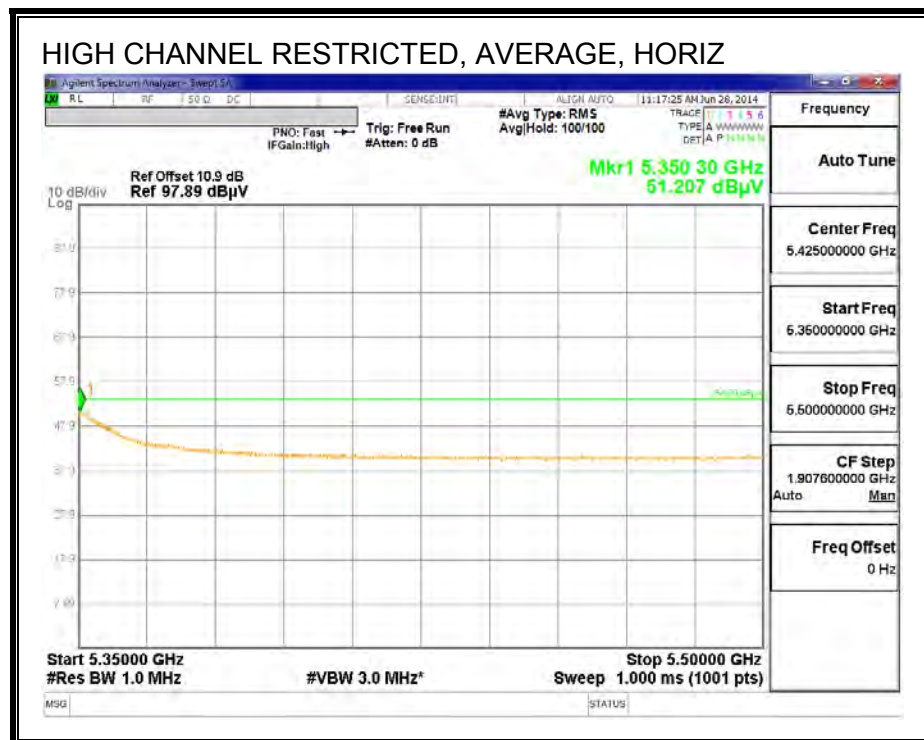
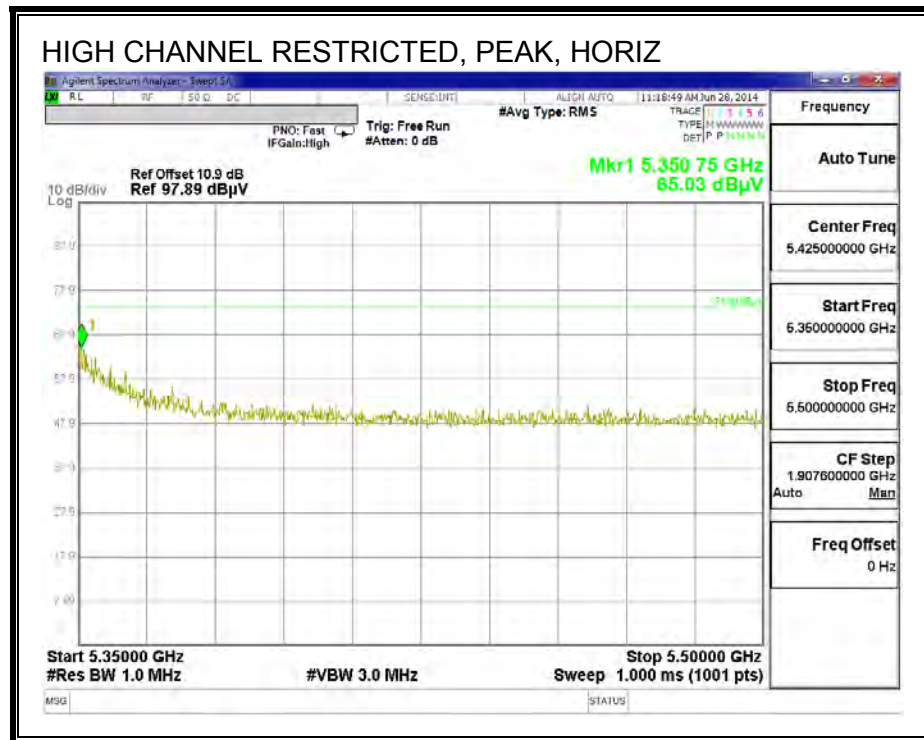
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

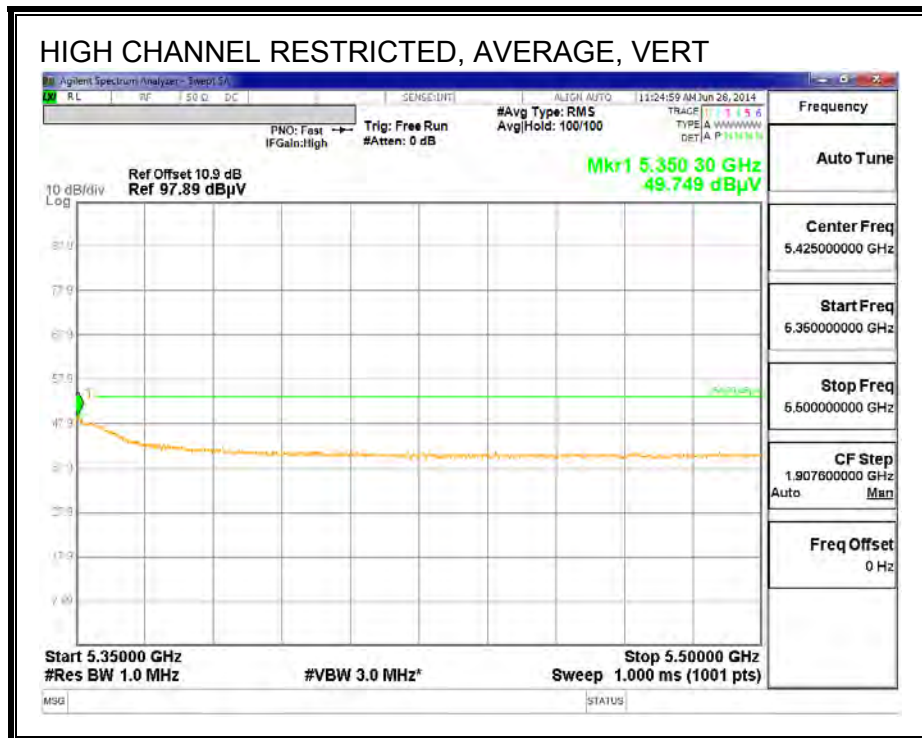
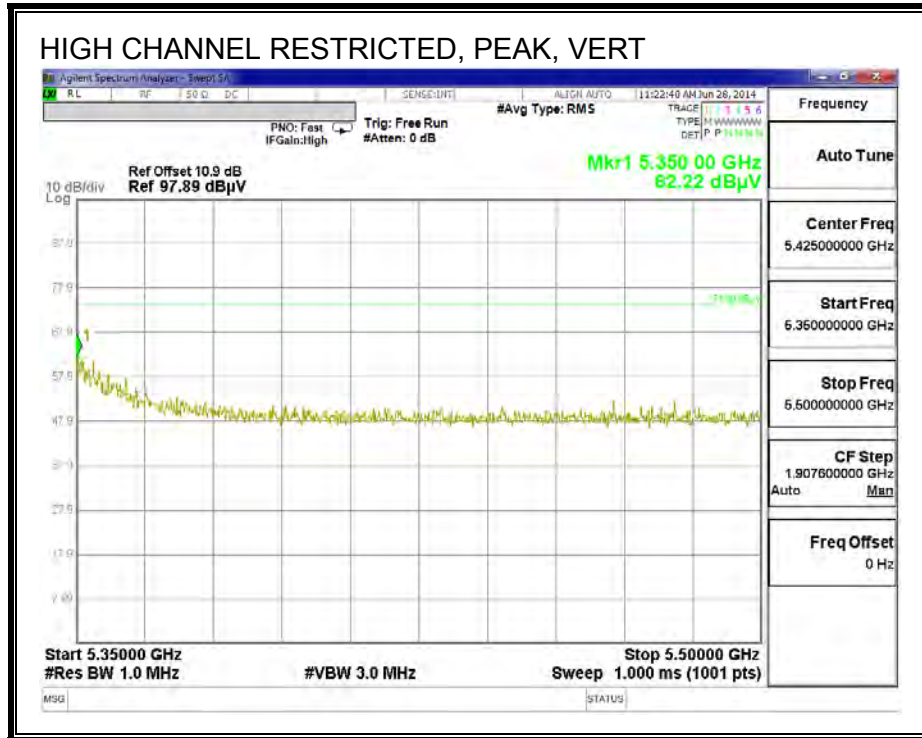
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

10.2.7. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.3 GHz BAND

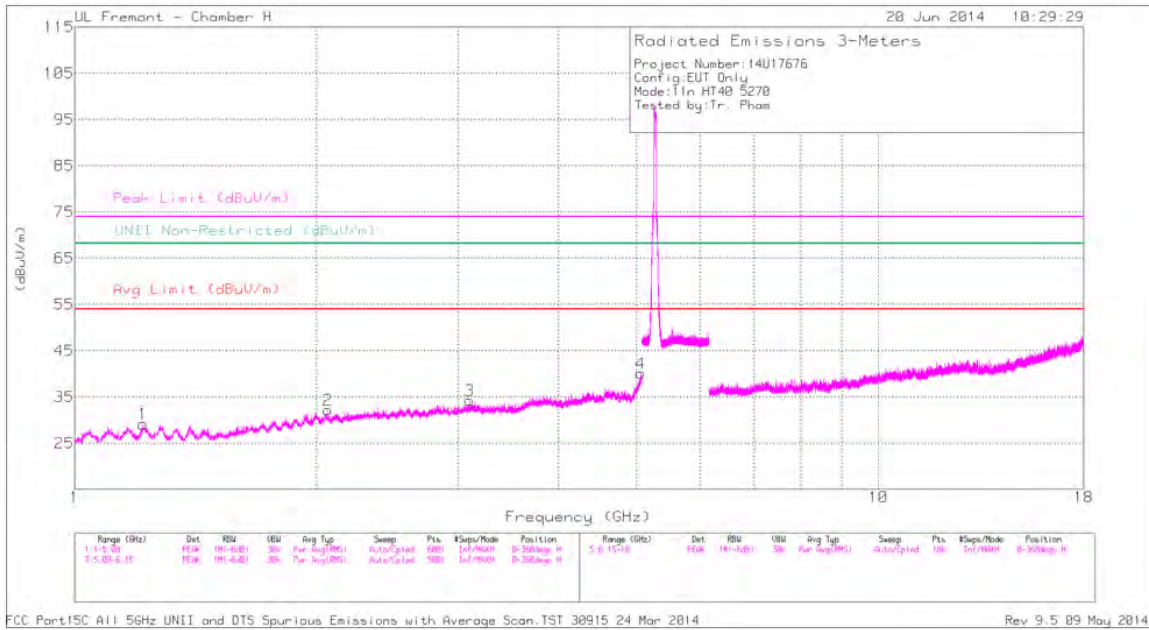
RESTRICTED BANDEDGE (HIGH CHANNEL)



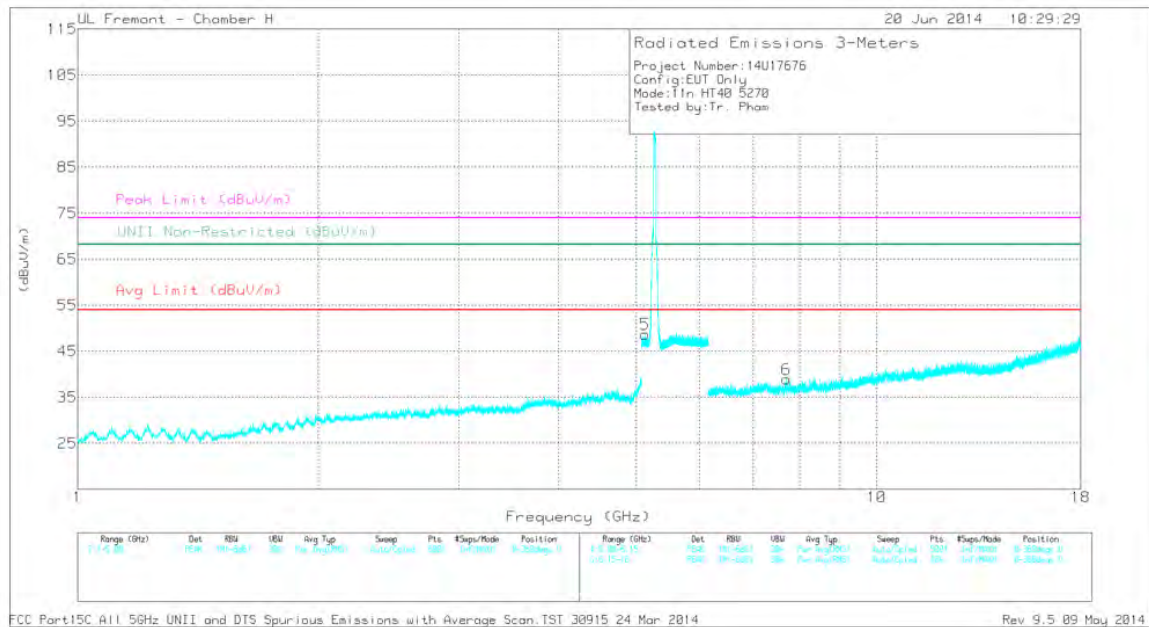


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT, CH 54



LOW CHANNEL VERTICAL PLOT, CH 54



DATA

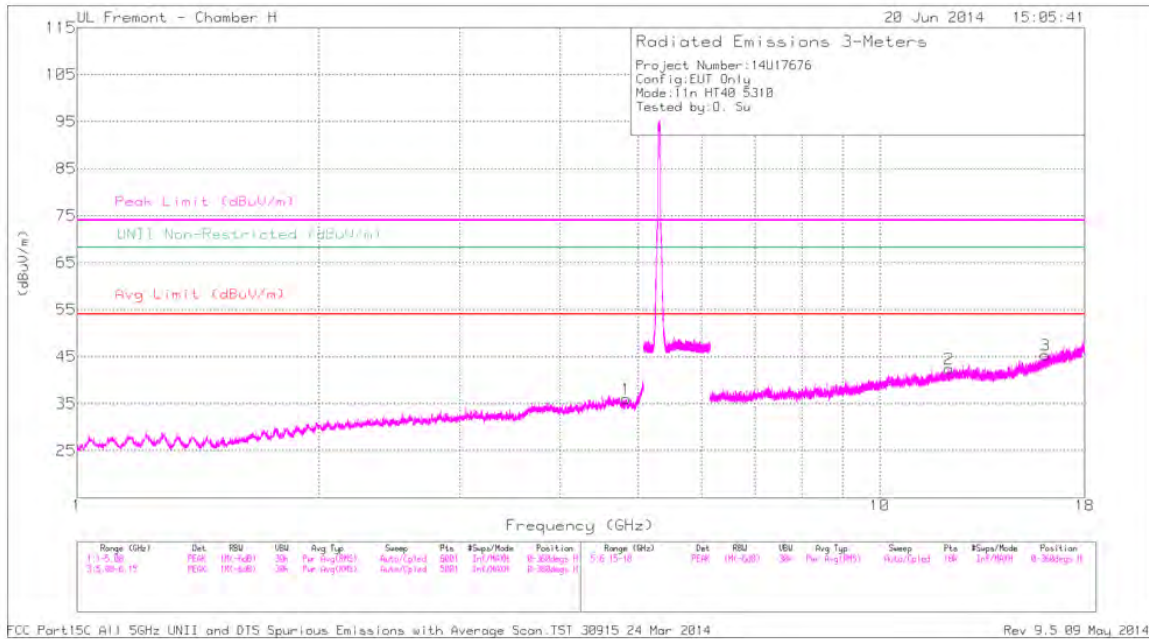
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.216	44.22	PK1	28.8	-35.6	37.42	-	-	74	-36.58	-	-	210	400	H
	* 1.215	32.06	AD1	28.8	-35.6	25.26	54	-28.74	-	-	-	-	210	400	H
4	* 5.063	41.62	PK1	34.4	-29.1	46.92	-	-	74	-27.08	-	-	127	141	H
	* 5.063	29.55	AD1	34.4	-29.1	34.85	54	-19.15	-	-	-	-	127	141	H
5	* 5.128	41.68	PK1	34.5	-22.8	53.38	-	-	74	-20.62	-	-	327	100	V
	* 5.129	29.83	AD1	34.5	-22.8	41.53	54	-12.47	-	-	-	-	327	100	V
6	*7.708	42.05	PK1	34.1	-31.8	44.35	-	-	74	-29.65	-	-	233	105	V
	*7.711	30.99	AD1	34.1	-31.8	33.29	54	-20.71	-	-	-	-	233	105	V
2	2.067	42.61	PK1	31.4	-34.4	39.61	-	-	-	-	68.2	-28.59	210	400	H
3	3.099	41.18	PK1	32.8	-32.7	41.28	-	-	-	-	68.2	-26.92	79	202	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

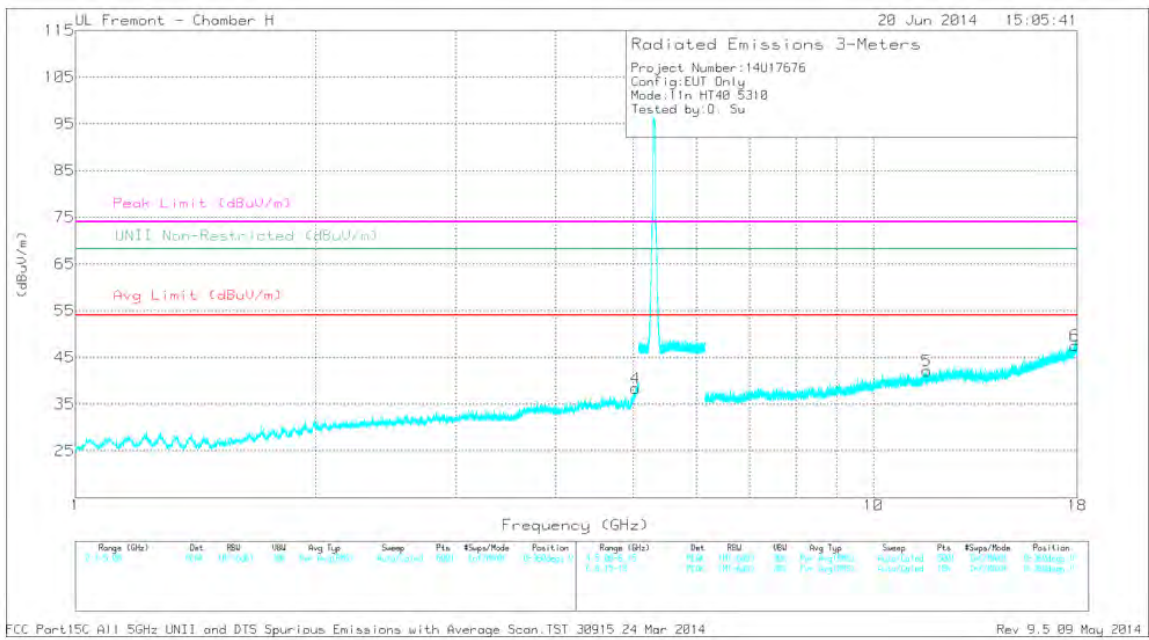
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT, CH 62



HIGH CHANNEL VERTICAL PLOT, CH 62



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fi tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.827	41	PK1	34.3	-31.8	43.5	-	-	74	-30.5	-	-	107	134	H
	* 4.826	30.1	AD1	34.3	-31.8	32.6	54	-21.4	-	-	-	-	107	134	H
4	* 5.033	43.79	PK1	34.4	-30.8	47.39	-	-	74	-26.61	-	-	82	225	V
	* 5.032	32.51	AD1	34.4	-30.9	36.01	54	-17.99	-	-	-	-	82	225	V
2	* 12.189	36.22	PK1	39	-25.5	49.72	-	-	74	-24.28	-	-	352	351	H
	* 12.197	24.87	AD1	39	-25.7	38.17	54	-15.83	-	-	-	-	352	351	H
3	* 16.079	36.92	PK1	41.2	-24.1	54.02	-	-	74	-19.98	-	-	265	162	H
	* 16.074	24.61	AD1	41.2	-24.1	41.71	54	-12.29	-	-	-	-	265	162	H
5	* 11.663	36.48	PK1	38.4	-25.7	49.18	-	-	74	-24.82	-	-	28	331	V
	* 11.67	25.07	AD1	38.4	-25.8	37.67	54	-16.33	-	-	-	-	28	331	V
6	* 17.877	34.96	PK1	42.5	-21.8	55.66	-	-	74	-18.34	-	-	329	153	V
	* 17.879	23.77	AD1	42.5	-21.8	44.47	54	-9.53	-	-	-	-	329	153	V

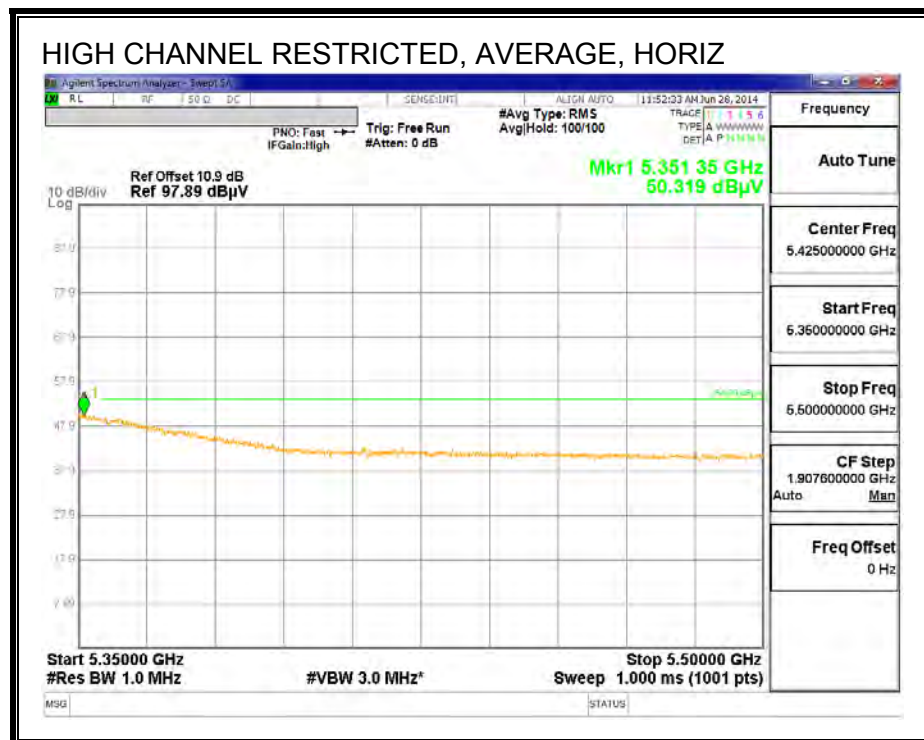
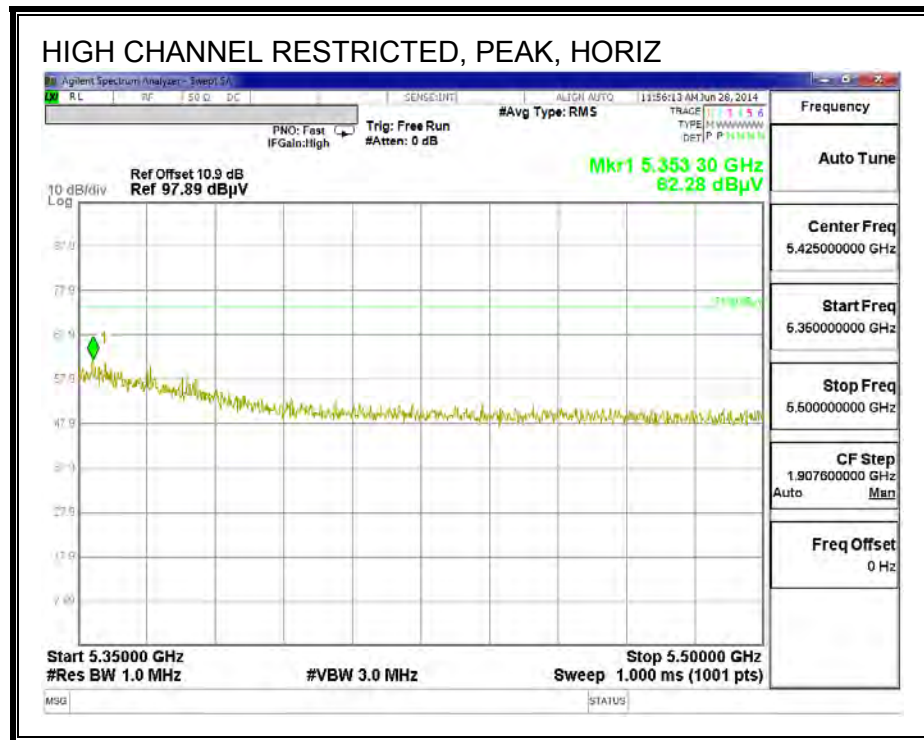
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

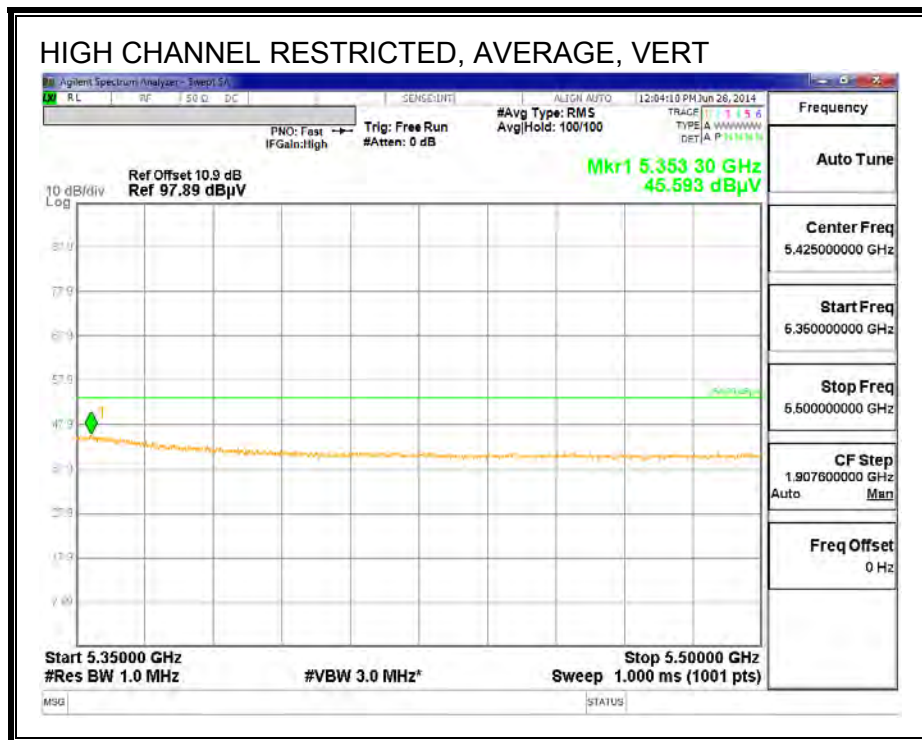
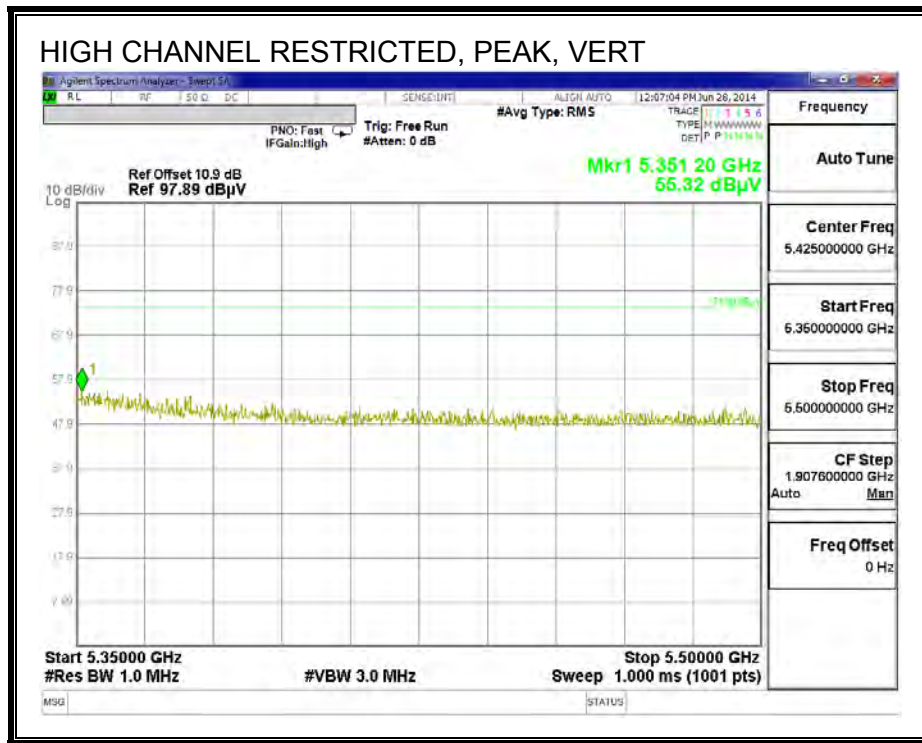
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

10.2.8. TX ABOVE 1G 802.11ac 80MHz MODE IN THE 5.3 GHz BAND

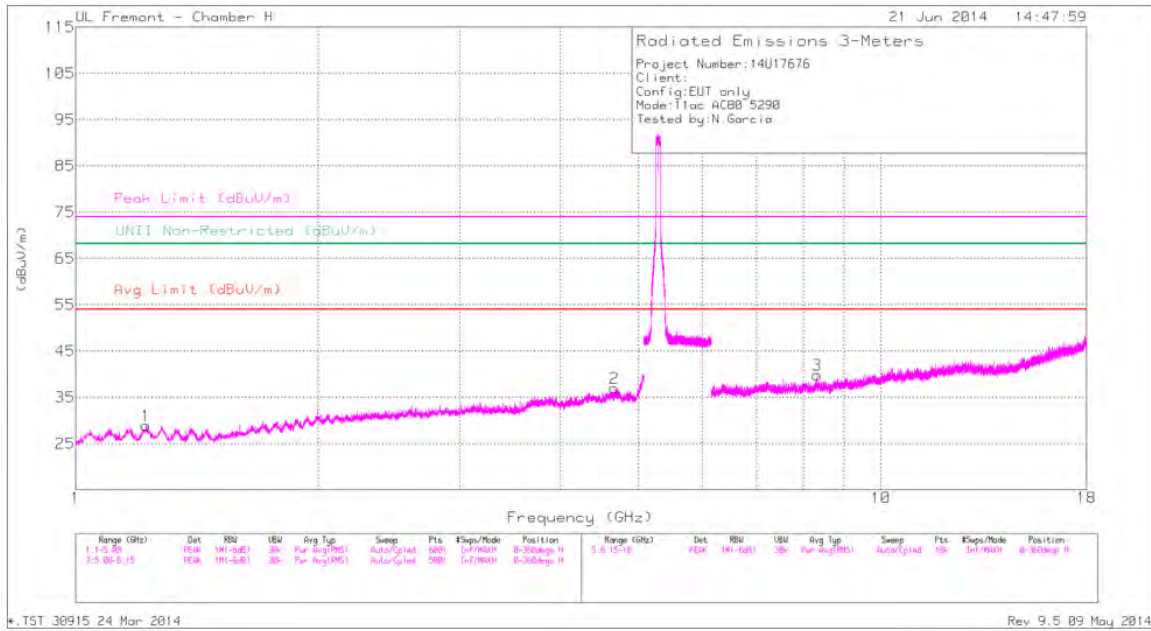
RESTRICTED BANDEDGE (HIGH CHANNEL, CH 58)



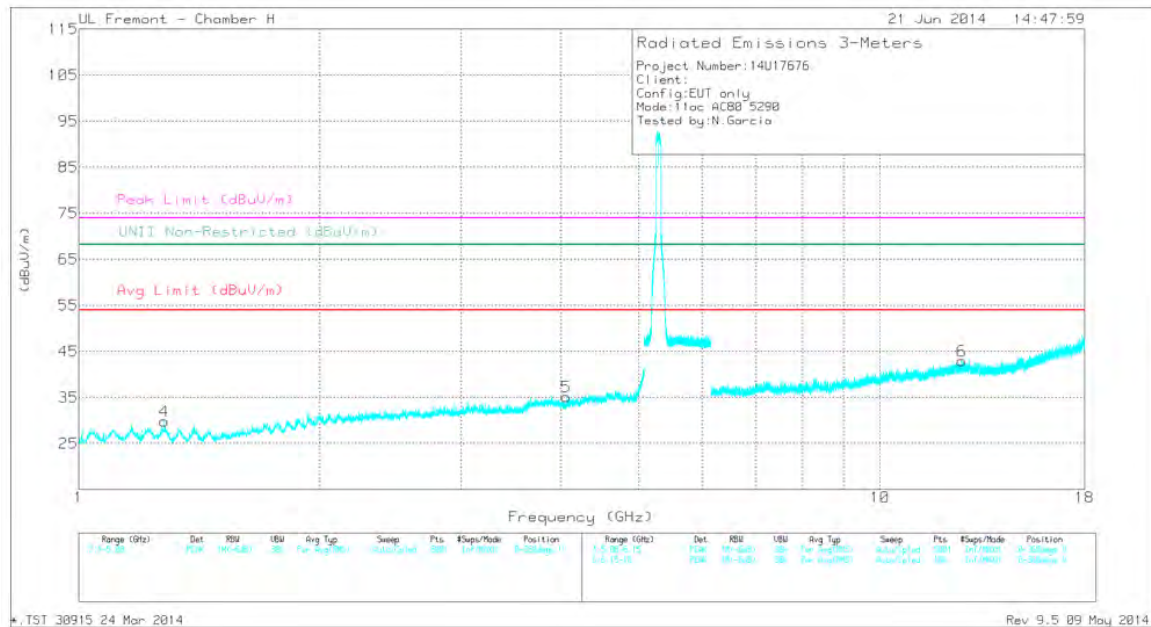


HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT, CH 58



HIGH CHANNEL VERTICAL PLOT, CH 58



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.224	43.71	PK1	28.9	-35.5	0	37.11	-	-	74	-36.89	-	-	17	199	H
	* 1.224	32.62	AD1	28.9	-35.5	.2	26.22	54	-27.78	-	-	-	-	17	199	H
2	* 4.668	42.09	PK1	34.2	-32.1	0	44.19	-	-	74	-29.81	-	-	46	108	H
	* 4.667	31	AD1	34.2	-32.2	.2	33.2	54	-20.8	-	-	-	-	46	108	H
4	* 1.279	44.17	PK1	28.2	-35	0	37.37	-	-	74	-36.63	-	-	337	116	V
	* 1.281	32.36	AD1	28.2	-35	.2	25.76	54	-28.24	-	-	-	-	337	116	V
5	* 4.059	42.26	PK1	34.1	-31.9	0	44.46	-	-	74	-29.54	-	-	109	115	V
	* 4.063	30.94	AD1	34.1	-31.9	.2	33.34	54	-20.66	-	-	-	-	109	115	V
3	* 8.327	38.27	PK1	36.1	-27.5	0	46.87	-	-	74	-27.13	-	-	54	128	H
	* 8.328	26.99	AD1	36.1	-27.5	.2	35.79	54	-18.21	-	-	-	-	54	128	H
6	* 12.654	35.87	PK1	39.2	-25.4	0	49.67	-	-	74	-24.33	-	-	66	107	V
	* 12.656	25.35	AD1	39.2	-25.5	.2	39.25	54	-14.75	-	-	-	-	66	107	V

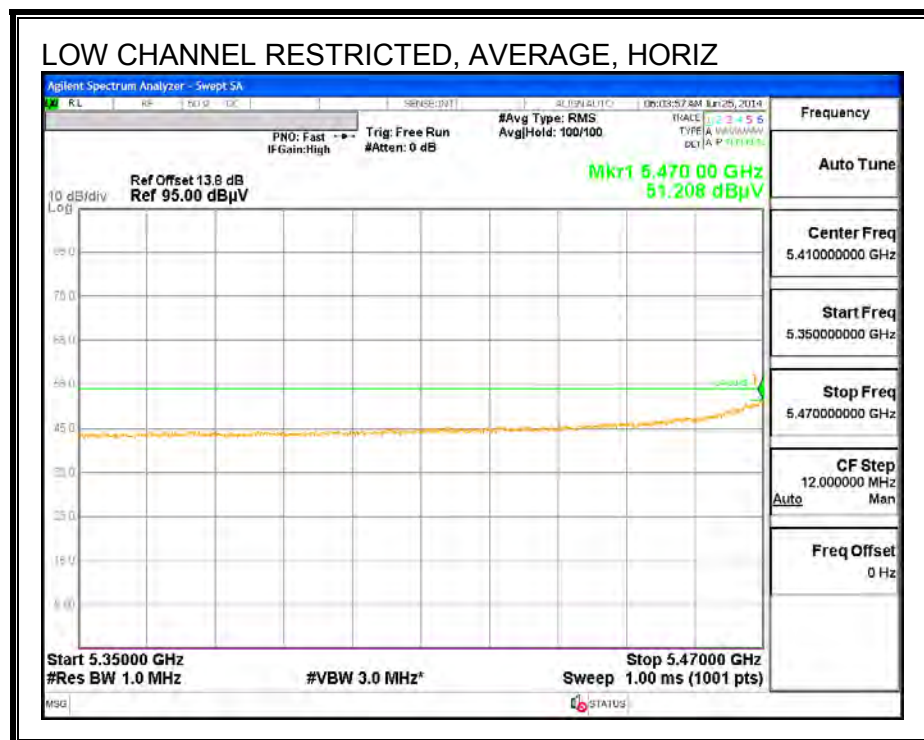
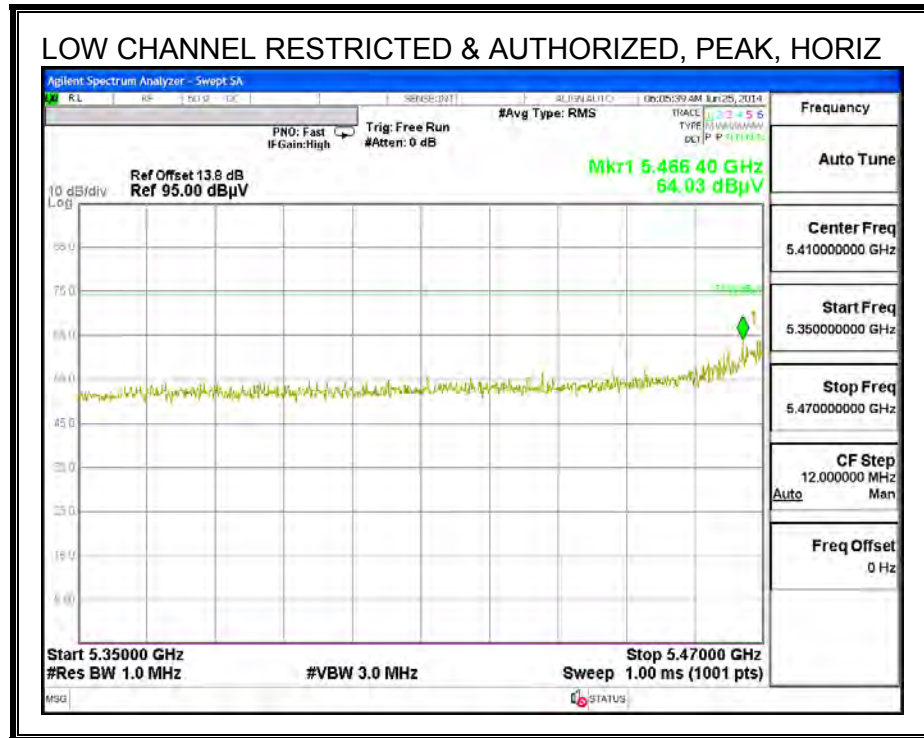
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

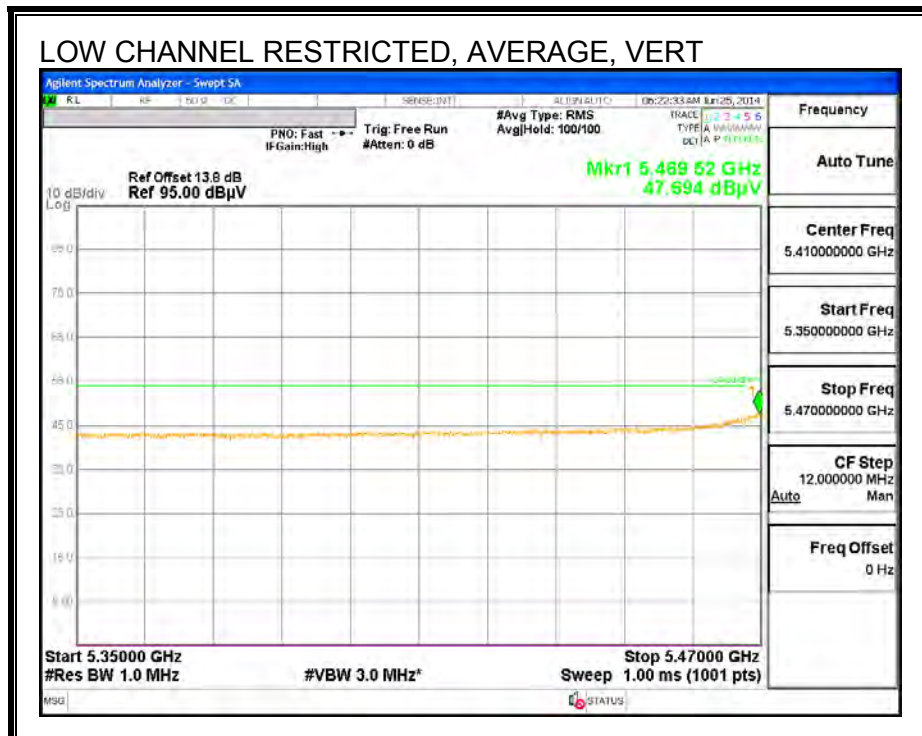
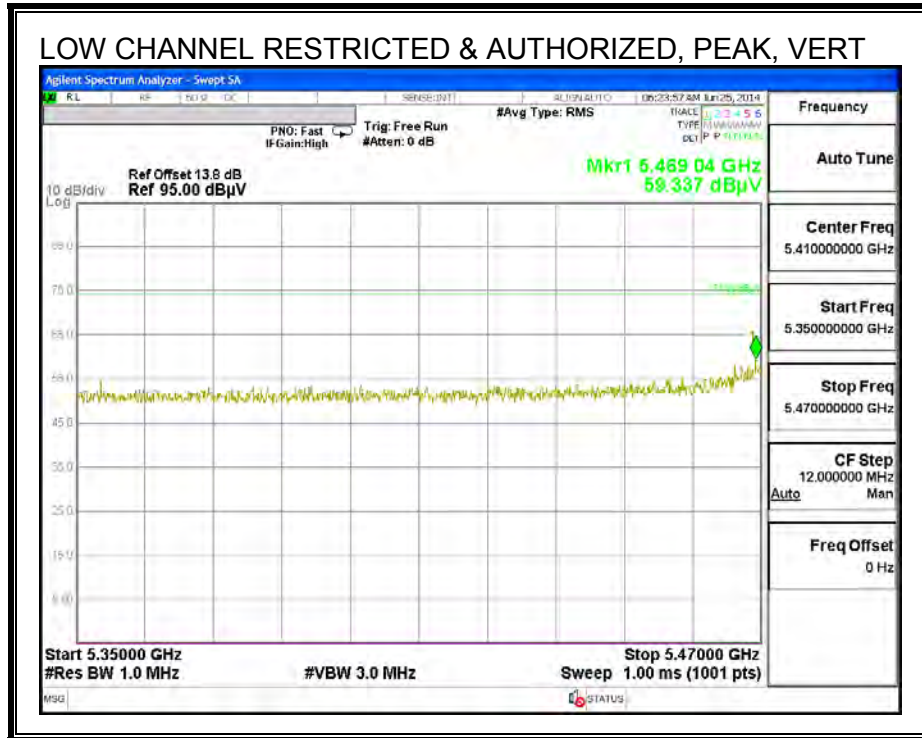
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

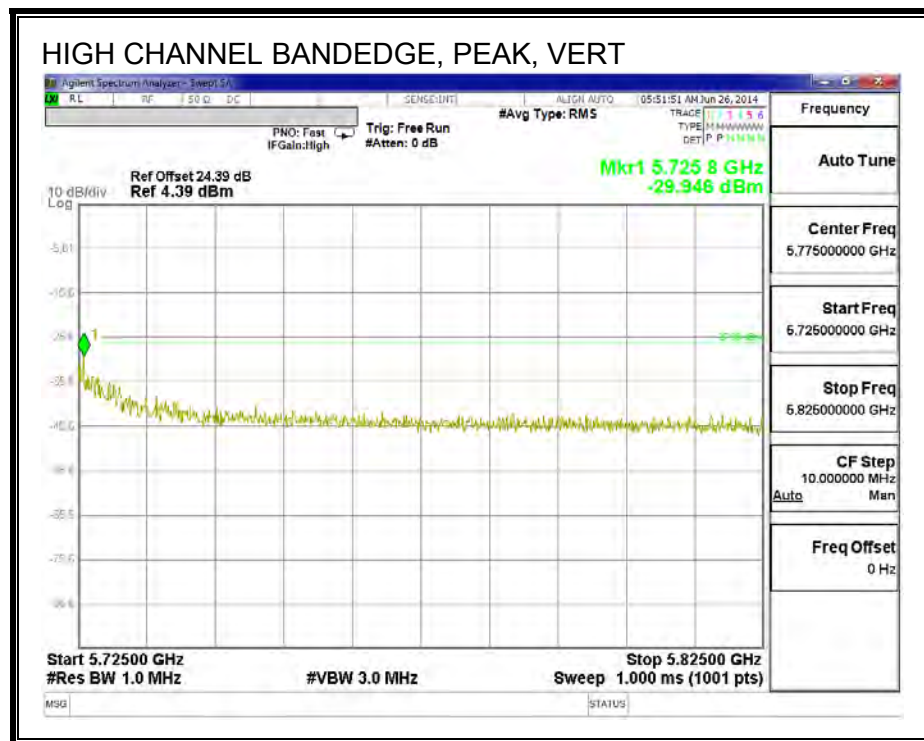
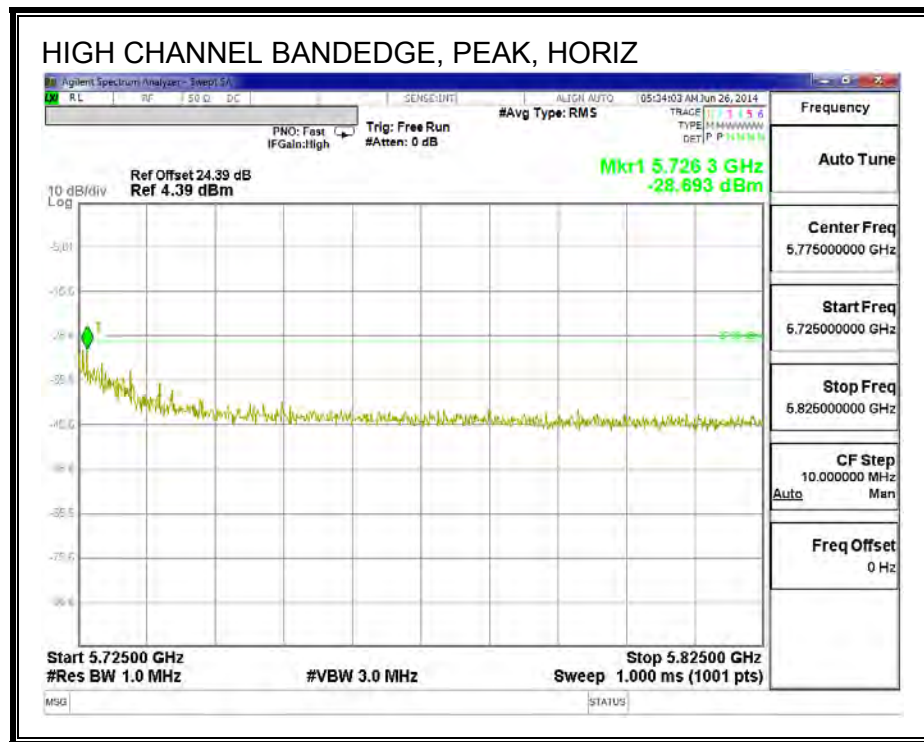
10.2.9. TX ABOVE 1 GHz 802.11a MODE IN THE 5.6 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)





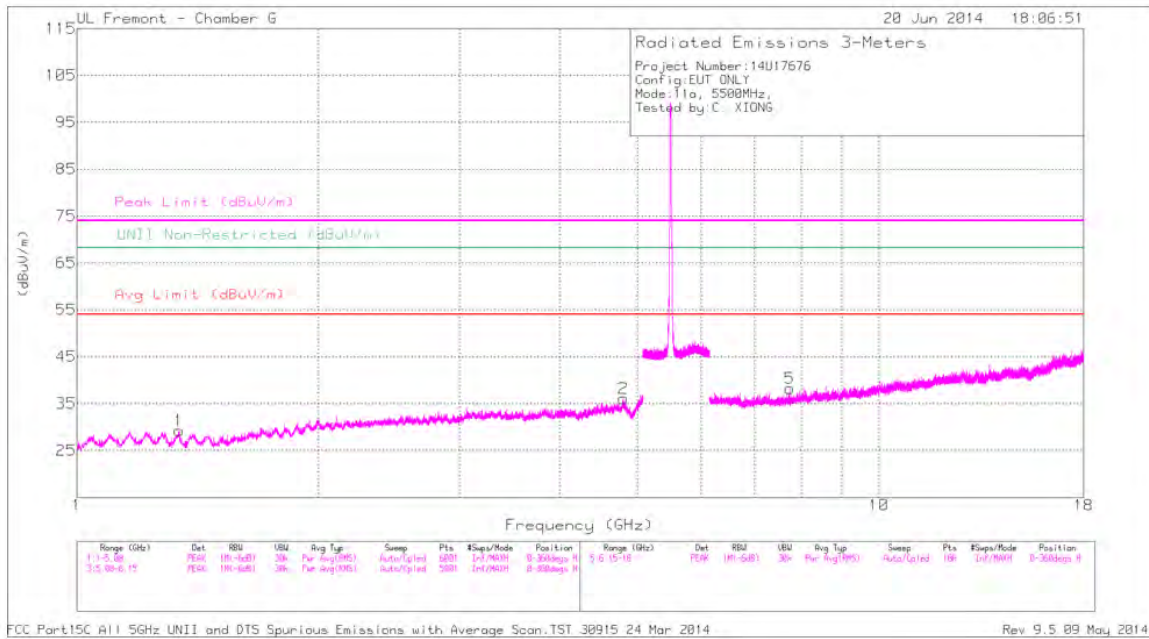
AUTHORIZED BANDEDGE (HIGH CHANNEL)



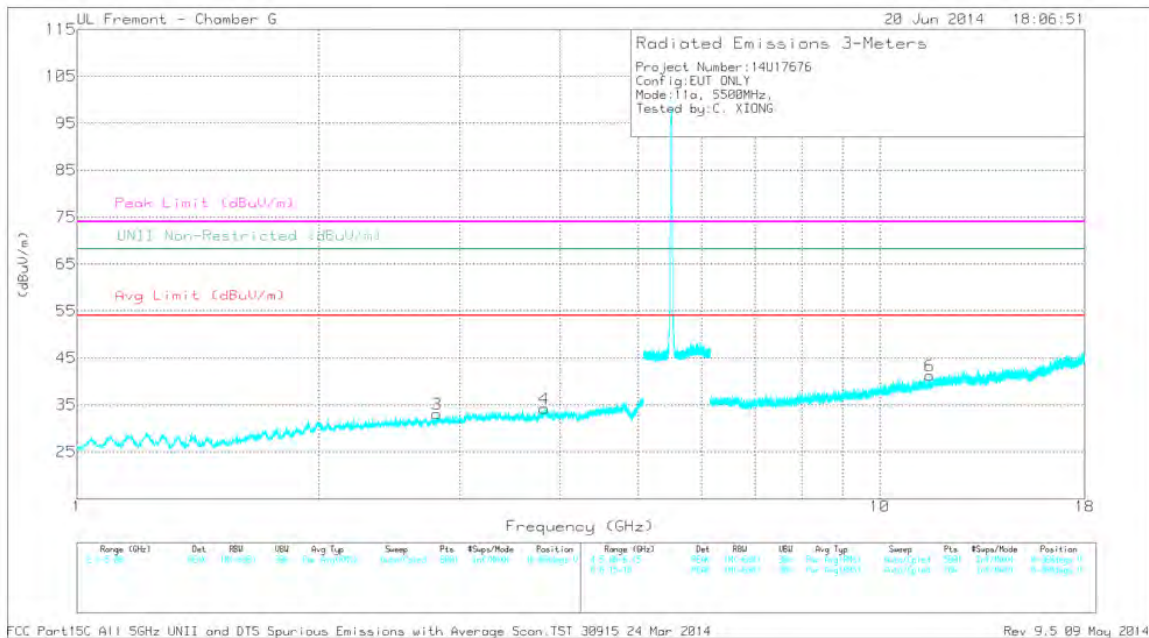
Average measurement was not required since peak measurements comply with -27 dBm/MHz.

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT, CH 100



LOW CHANNEL VERTICAL PLOT, CH 100



DATA

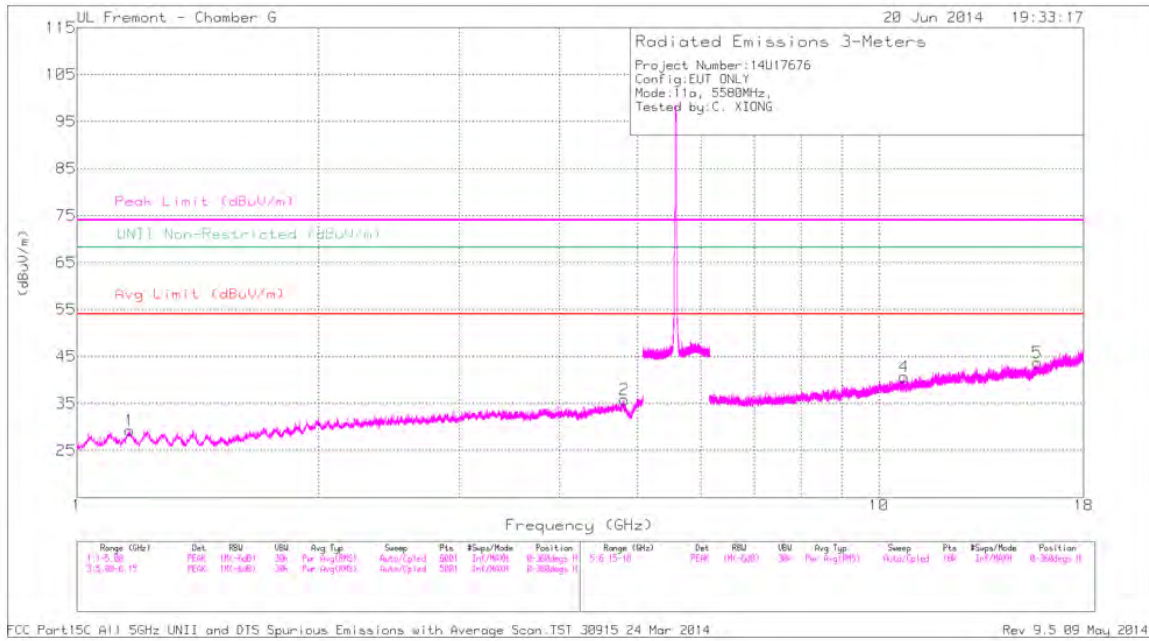
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fi tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.337	39	PK1	28.7	-35.7	32	-	-	74	-42	-	-	285	263	H
	* 1.337	32.31	AD1	28.7	-35.7	25.31	54	-28.69	-	-	-	-	285	263	H
2	* 4.803	41.85	PK1	34.1	-32.9	43.05	-	-	74	-30.95	-	-	142	205	H
	* 4.8	30.38	AD1	34.1	-32.9	31.58	54	-22.42	-	-	-	-	142	205	H
3	* 2.812	42.12	PK1	32.2	-33.8	40.52	-	-	74	-33.48	-	-	320	191	V
	* 2.81	30.66	AD1	32.2	-33.8	29.06	54	-24.94	-	-	-	-	320	191	V
4	* 3.825	41.72	PK1	33	-33.2	41.52	-	-	74	-32.48	-	-	21	355	V
	* 3.825	30.53	AD1	33	-33.2	30.33	54	-23.67	-	-	-	-	21	355	V
5	* 7.744	40.01	PK1	35.7	-30.9	44.81	-	-	74	-29.19	-	-	170	129	H
	* 7.744	28.64	AD1	35.7	-30.9	33.44	54	-20.56	-	-	-	-	170	129	H
6	* 11.539	36.44	PK1	38.4	-26.7	48.14	-	-	74	-25.86	-	-	311	375	V
	* 11.538	25.24	AD1	38.4	-26.7	36.94	54	-17.06	-	-	-	-	311	375	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

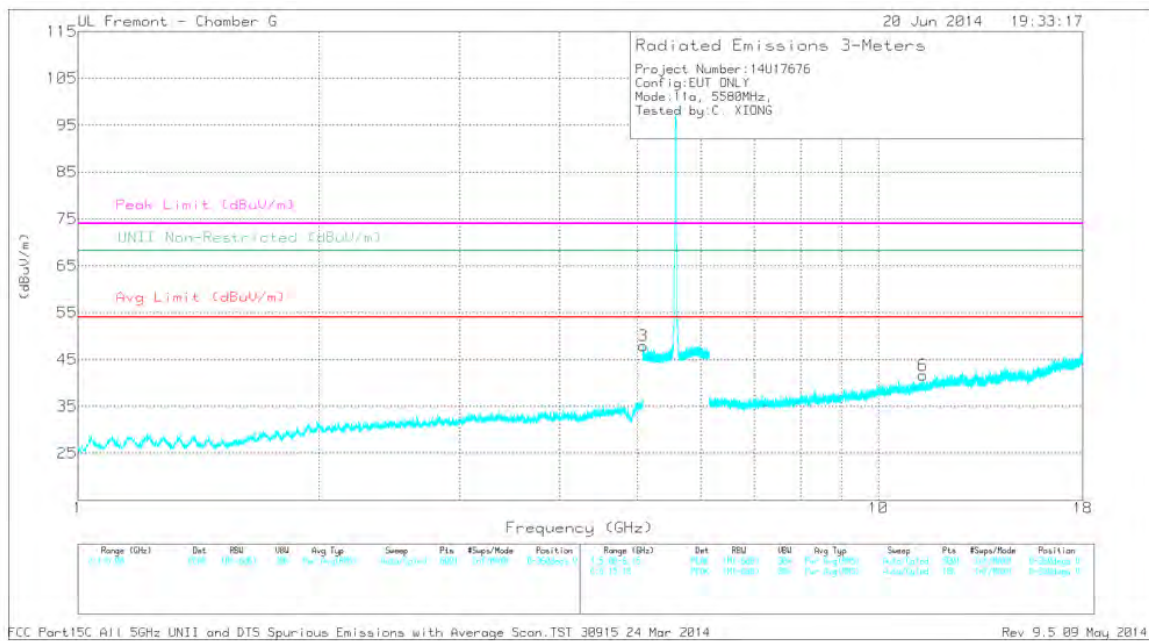
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT, CH 116



MID CHANNEL VERTICAL PLOT, CH 60



DATA

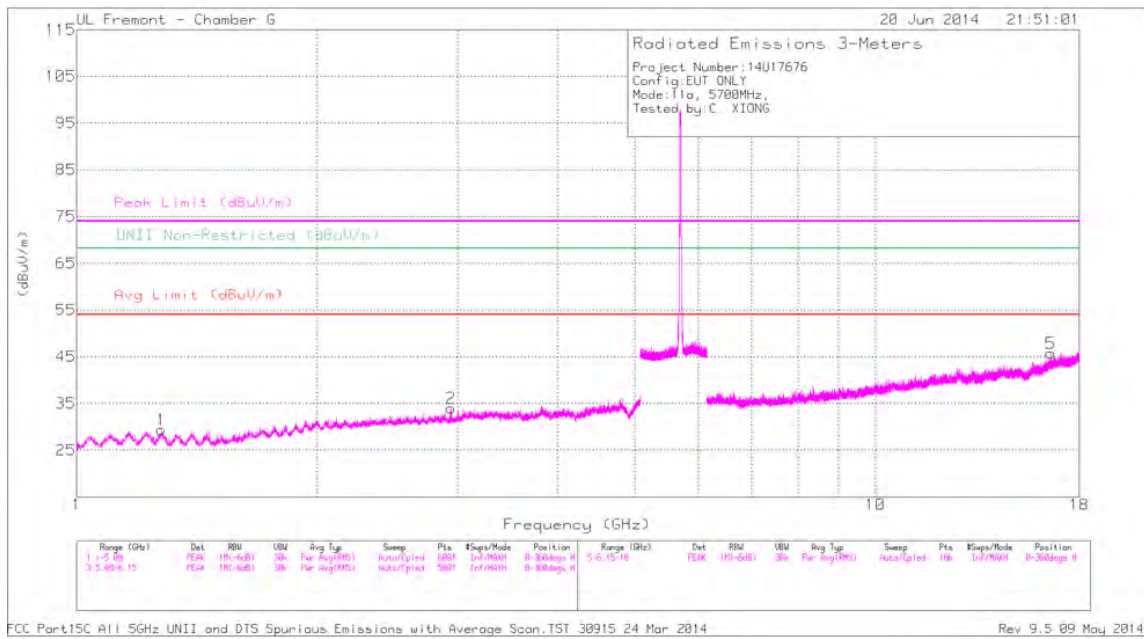
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.166	45.02	PK1	28.8	-35.5	0	38.32	-	-	74	-35.68	-	-	51	138	H
	* 1.162	33.02	AD1	28.8	-35.5	.1	26.42	54	-27.58	-	-	-	-	51	138	H
2	* 4.817	39.7	PK1	34.1	-32.7	0	41.1	-	-	74	-32.9	-	-	126	223	H
	* 4.81	29.26	AD1	34.1	-32.8	.1	30.66	54	-23.34	-	-	-	-	126	223	H
3	* 5.087	43.91	PK1	34.2	-23.7	0	54.41	-	-	74	-19.59	-	-	162	289	V
	* 5.084	33.1	AD1	34.2	-23.7	.1	43.7	54	-10.3	-	-	-	-	162	289	V
4	* 10.765	36.98	PK1	37.7	-27.1	0	47.58	-	-	74	-26.42	-	-	225	200	H
	* 10.76	26.38	AD1	37.7	-27.2	.1	36.98	54	-17.02	-	-	-	-	225	200	H
5	* 15.761	38.25	PK1	40.2	-26.9	0	51.55	-	-	74	-22.45	-	-	208	280	H
	* 15.763	27.17	AD1	40.2	-26.9	.1	40.57	54	-13.43	-	-	-	-	208	280	H
6	* 11.369	36.92	PK1	38.1	-26.6	0	48.42	-	-	74	-25.58	-	-	12	134	V
	* 11.368	25.89	AD1	38.1	-26.6	.1	37.49	54	-16.51	-	-	-	-	12	134	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

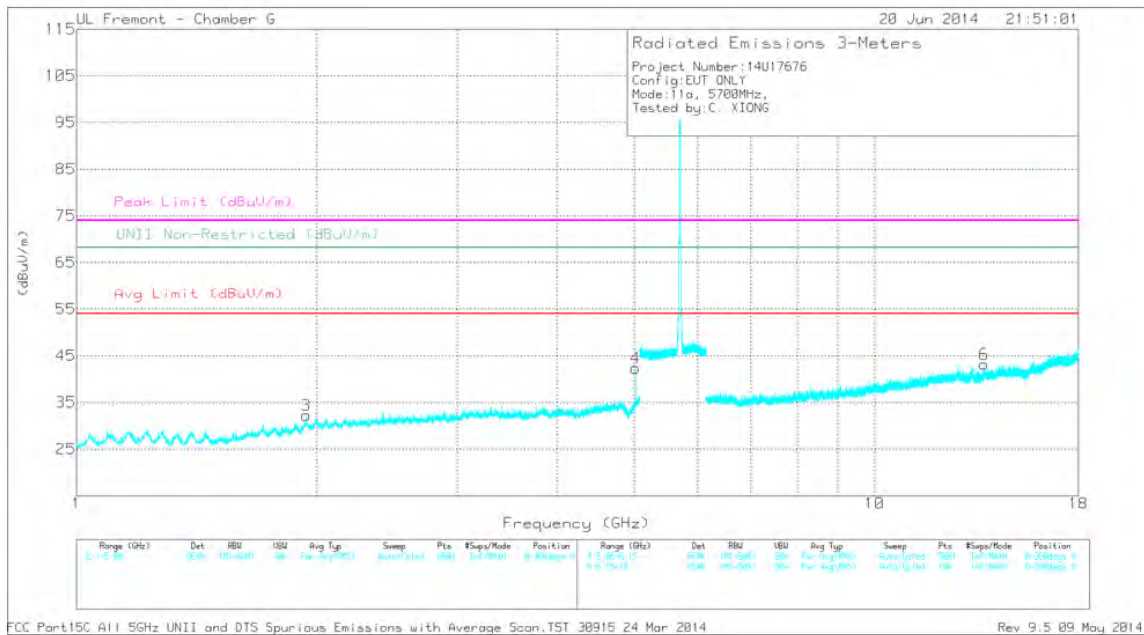
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT, CH 140



HIGH CHANNEL VERTICAL PLOT, CH140



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.277	43.88	PK1	29.1	-35.9	0	37.08	-	-	74	-36.92	-	-	144	262	H
	* 1.279	32.82	AD1	29	-35.9	.1	26.02	54	-27.98	-	-	-	-	144	262	H
4	* 5.011	41.51	PK1	34.1	-32.2	0	43.41	-	-	74	-30.59	-	-	308	123	V
	* 5.017	30.12	AD1	34.1	-32.1	.1	32.22	54	-21.78	-	-	-	-	308	123	V
3	1.937	43.07	PK1	30.9	-34.6	0	39.37	-	-	-	-	68.2	-28.83	292	206	V
2	2.944	42.99	PK1	32.4	-34.4	0	40.99	-	-	-	-	68.2	-27.21	114	149	H
6	13.721	37.5	PK1	39.2	-26.6	0	50.1	-	-	-	-	68.2	-18.1	12	199	V
5	16.58	37.36	PK1	41.5	-26.4	0	52.46	-	-	-	-	68.2	-15.74	152	112	H

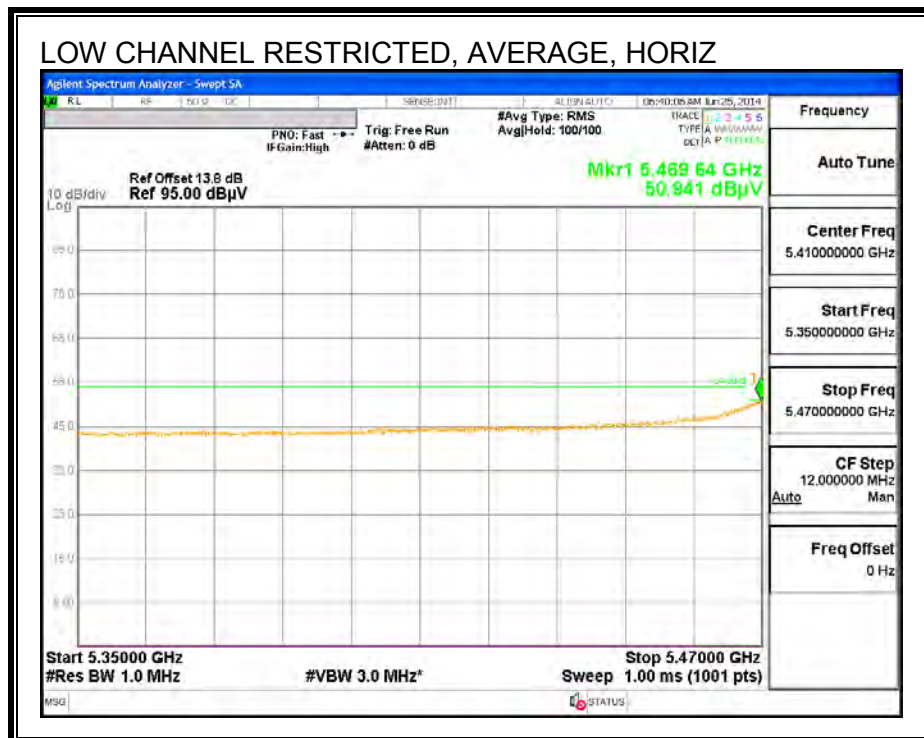
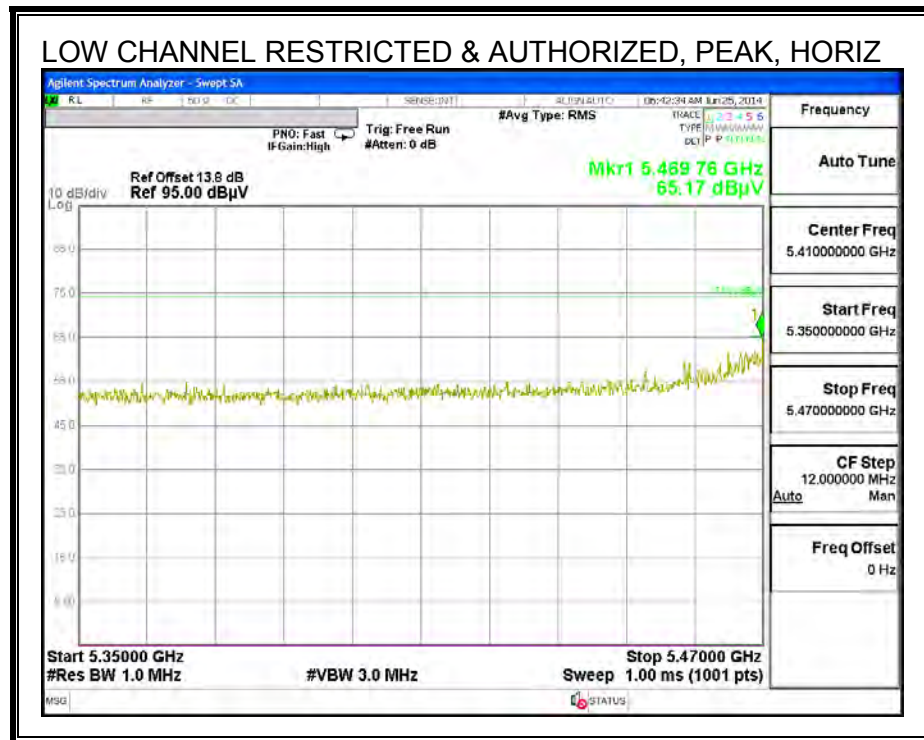
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

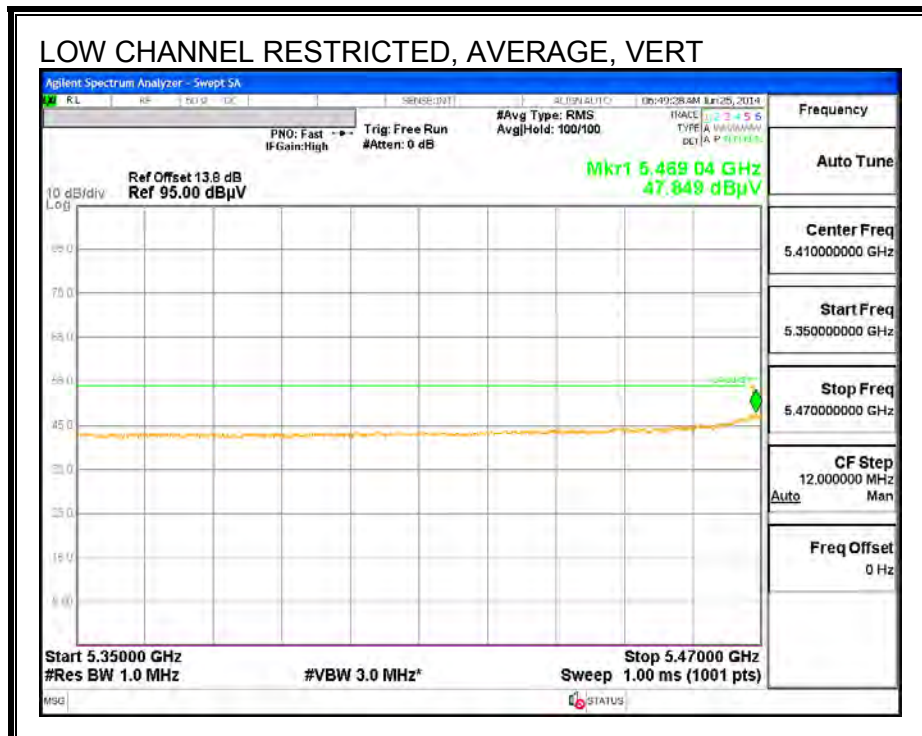
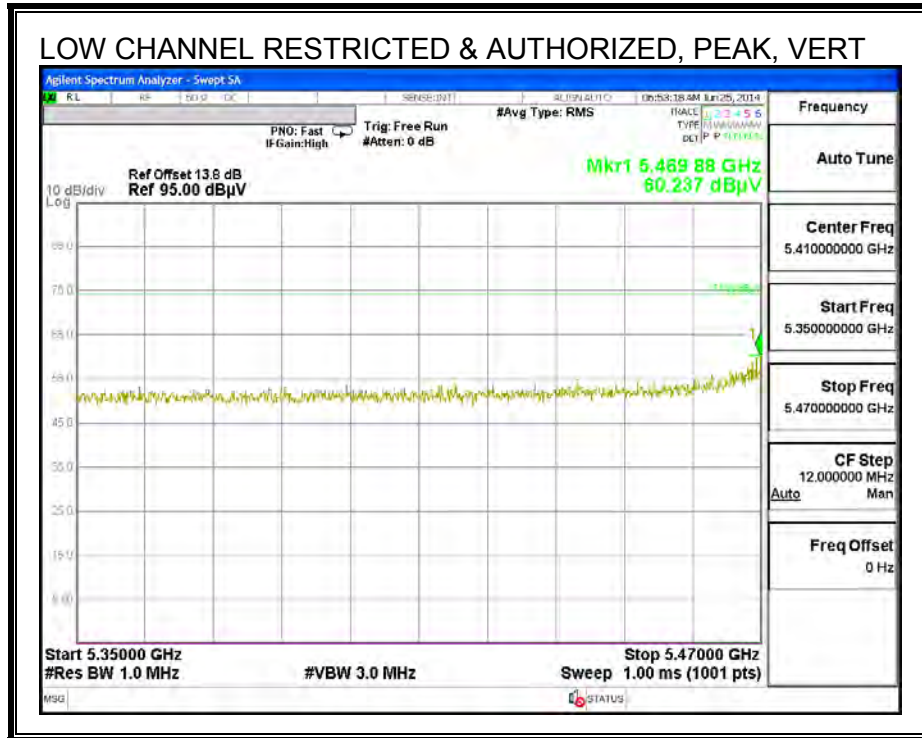
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

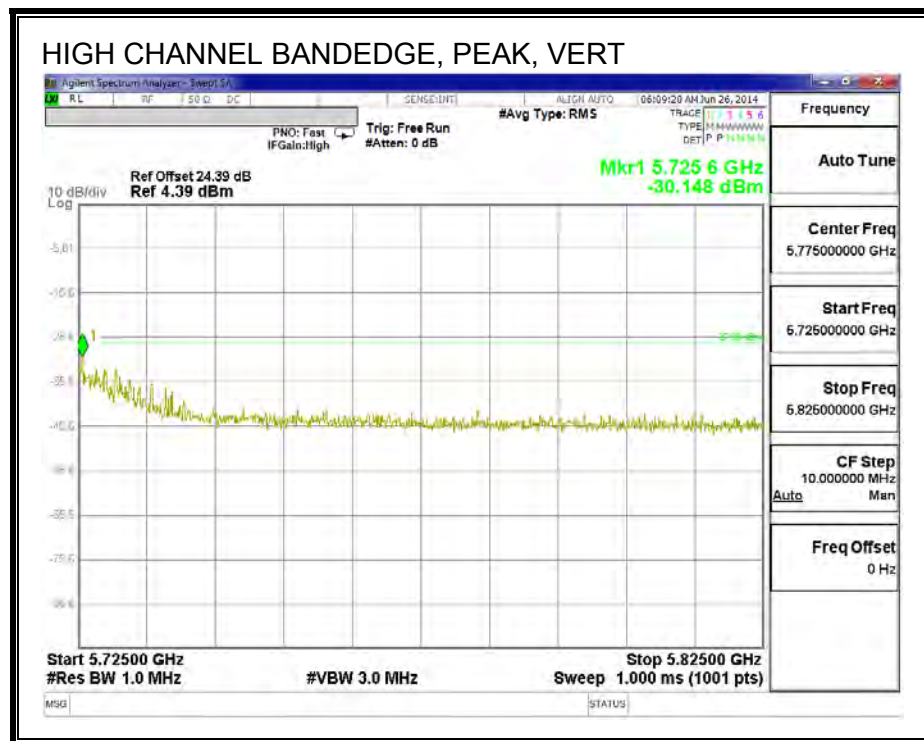
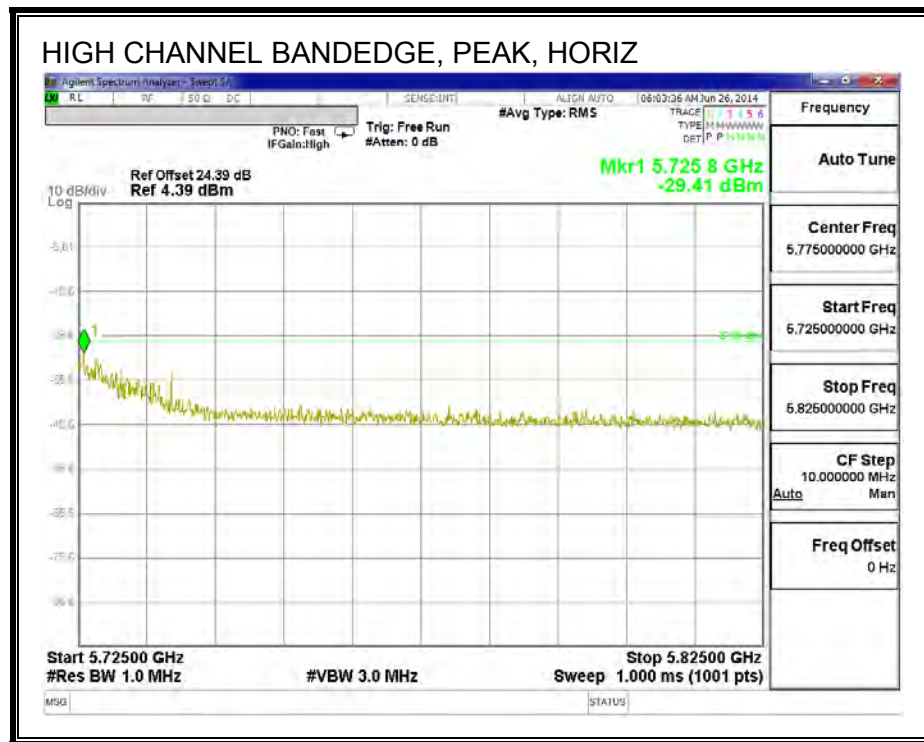
10.2.10. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.6 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)





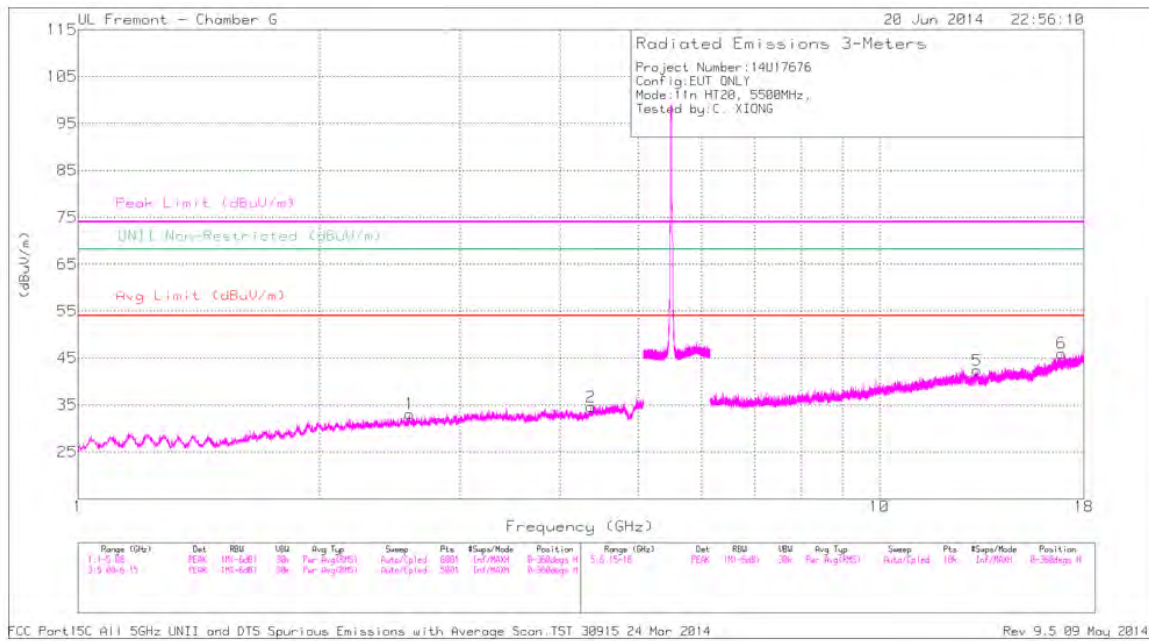
AUTHORIZED BANDEDGE (HIGH CHANNEL)



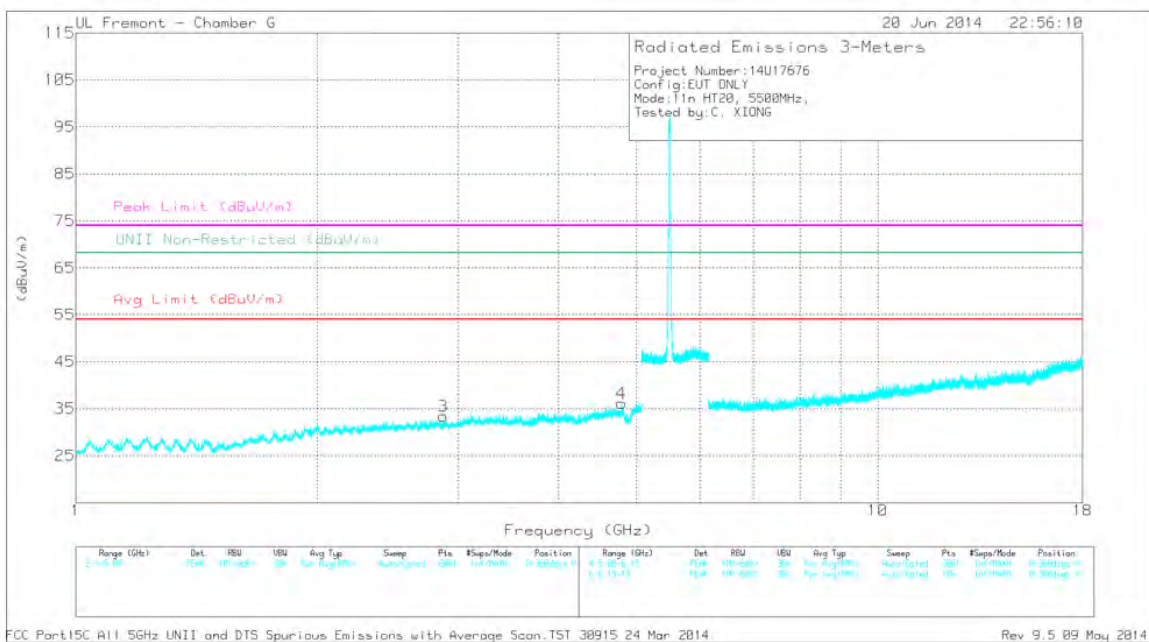
Average measurement was not required since peak measurements comply with -27 dBm/MHz.

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT, CH 100



LOW CHANNEL VERTICAL PLOT, CH 100



DATA

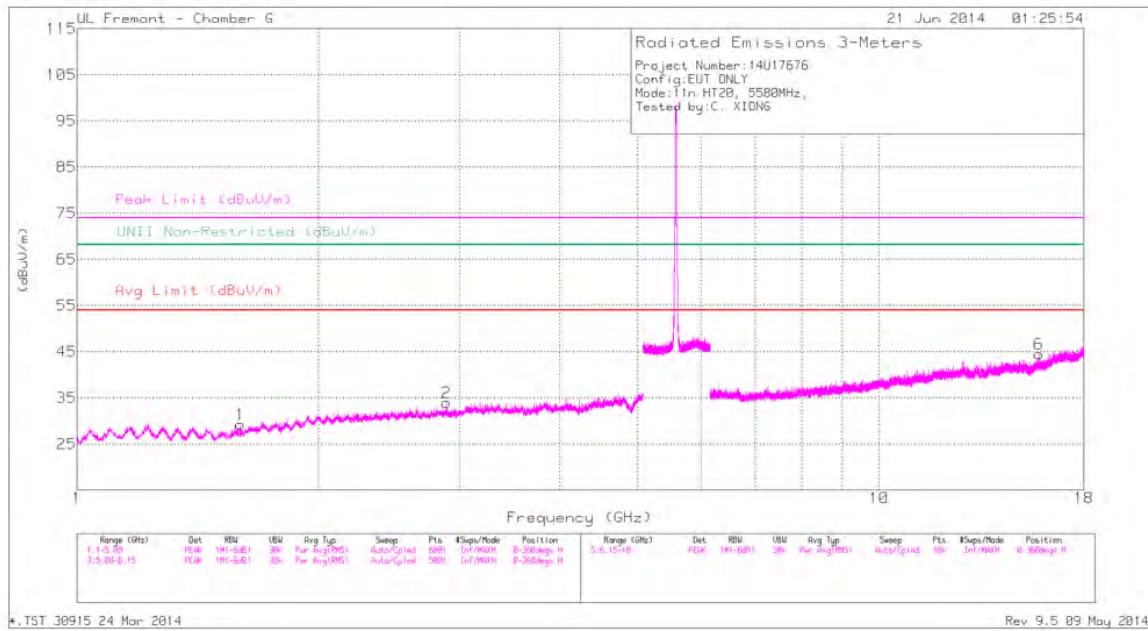
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.367	41.46	PK1	33.5	-32.8	0	42.16	-	-	74	-31.84	-	-	228	310	H
	* 4.362	30.4	AD1	33.5	-32.7	.1	31.3	54	-22.7	-	-	-	-	228	310	H
3	* 2.877	42.39	PK1	32.3	-33.8	0	40.89	-	-	74	-33.11	-	-	92	195	V
	* 2.877	31.1	AD1	32.3	-33.8	.1	29.7	54	-24.3	-	-	-	-	92	195	V
4	* 4.799	40.92	PK1	34.1	-32.9	0	42.12	-	-	74	-31.88	-	-	124	181	V
	* 4.792	30.61	AD1	34.1	-32.9	.1	31.91	54	-22.09	-	-	-	-	124	181	V
1	2.603	43.74	PK1	32.1	-34.3	0	41.54	-	-	-	-	68.2	-26.66	120	199	H
5	13.247	36.92	PK1	39	-25.9	0	50.02	-	-	-	-	68.2	-18.18	228	248	H
6	16.881	36.44	PK1	42	-26	0	52.44	-	-	-	-	68.2	-15.76	11	196	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

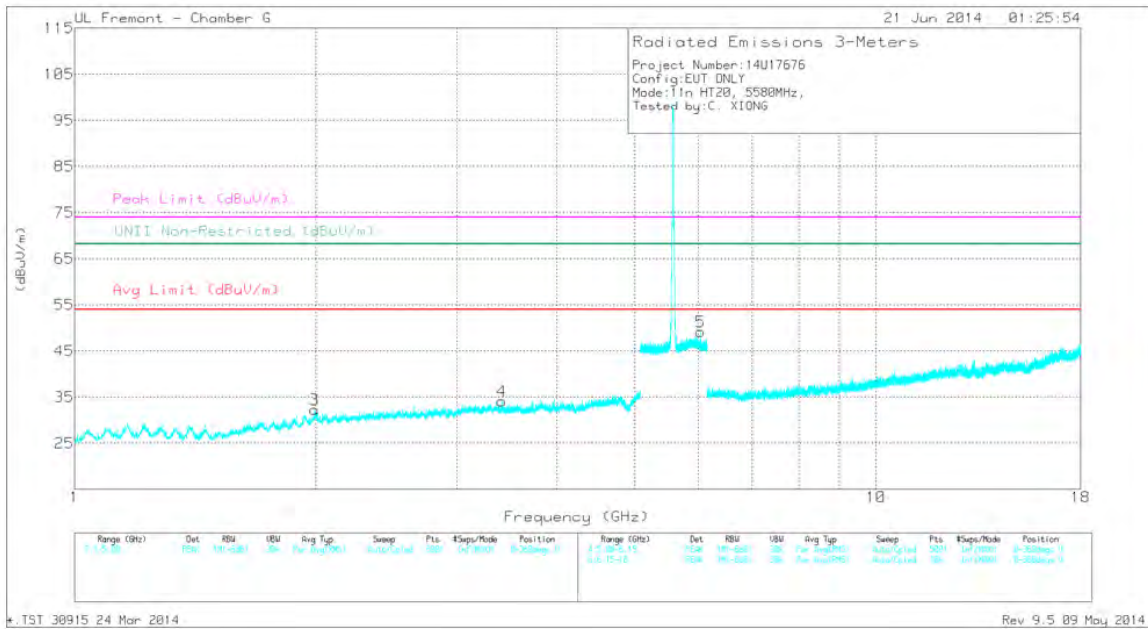
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT, CH 116



MID CHANNEL VERTICAL PLOT, CH 116



DATA

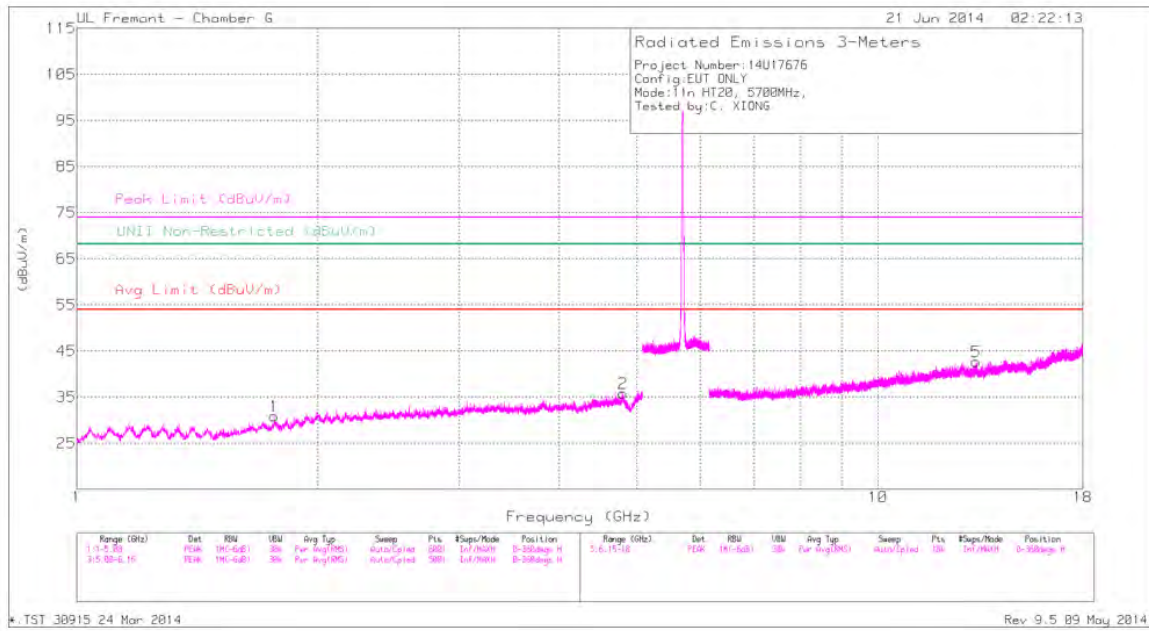
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.599	42.96	PK1	28.6	-35.3	0	36.26	-	-	74	-37.74	-	-	203	295	H
	* 1.596	31.93	AD1	28.6	-35.3	.1	25.33	54	-28.67	-	-	-	-	203	295	H
2	* 2.883	42.52	PK1	32.3	-33.9	0	40.92	-	-	74	-33.08	-	-	319	151	H
	* 2.889	31.49	AD1	32.3	-34	.1	29.89	54	-24.11	-	-	-	-	319	151	H
6	* 15.831	37.86	PK1	40.3	-26.7	0	51.46	-	-	74	-22.54	-	-	164	118	H
	* 15.824	27.25	AD1	40.3	-26.8	.1	40.85	54	-13.15	-	-	-	-	164	118	H
3	1.993	43.33	PK1	31.3	-34.7	0	39.93	-	-	-	-	68.2	-28.27	11	179	V
4	3.414	42.51	PK1	32.9	-33.8	0	41.61	-	-	-	-	68.2	-26.59	59	154	V
5	6.037	43.34	PK1	35.3	-23.5	0	55.14	-	-	-	-	68.2	-13.06	313	237	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

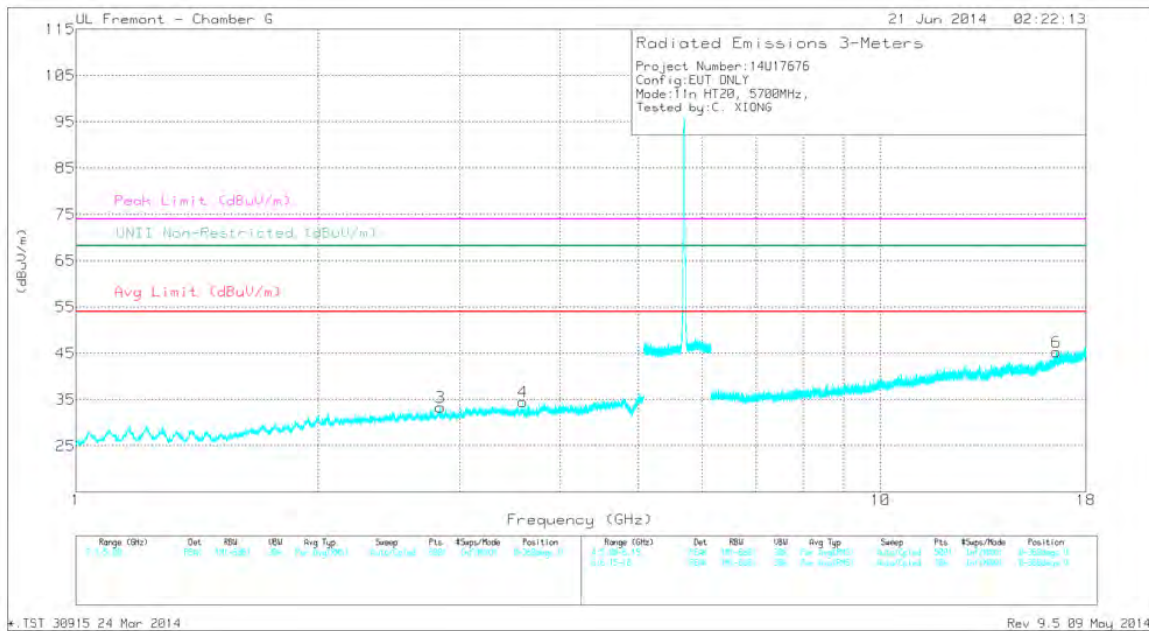
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT, CH 140



HIGH CHANNEL VERTICAL PLOT, CH 140



DATA

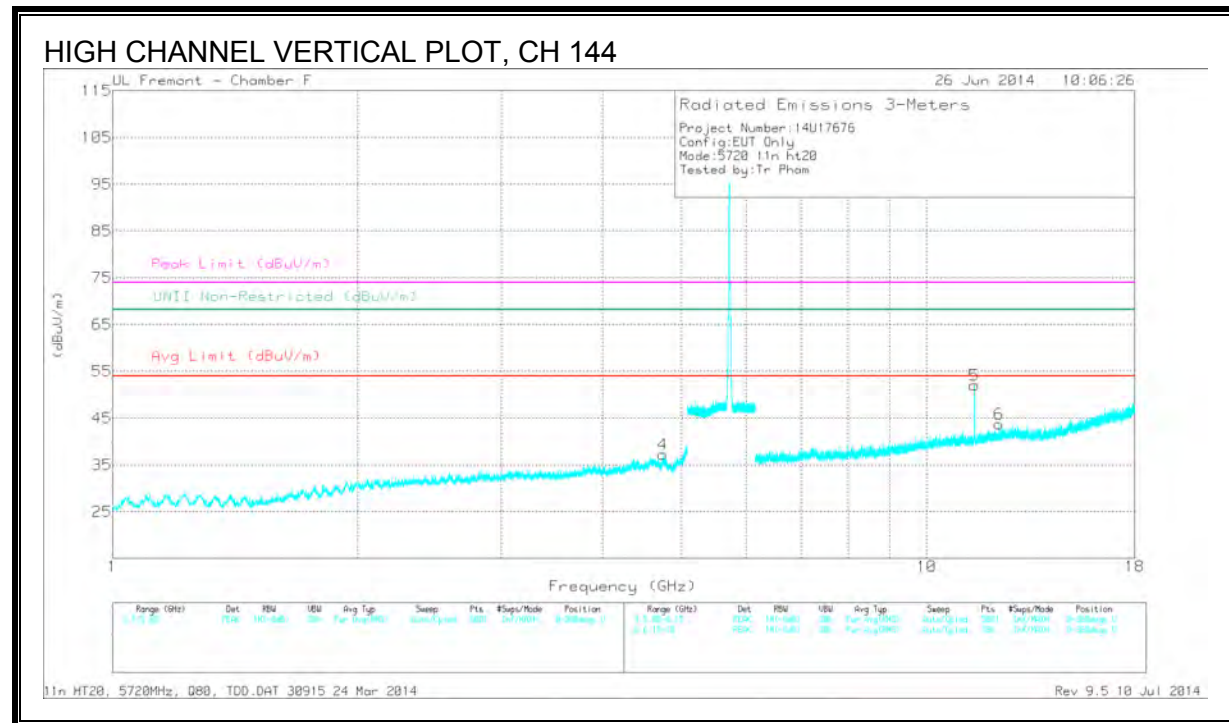
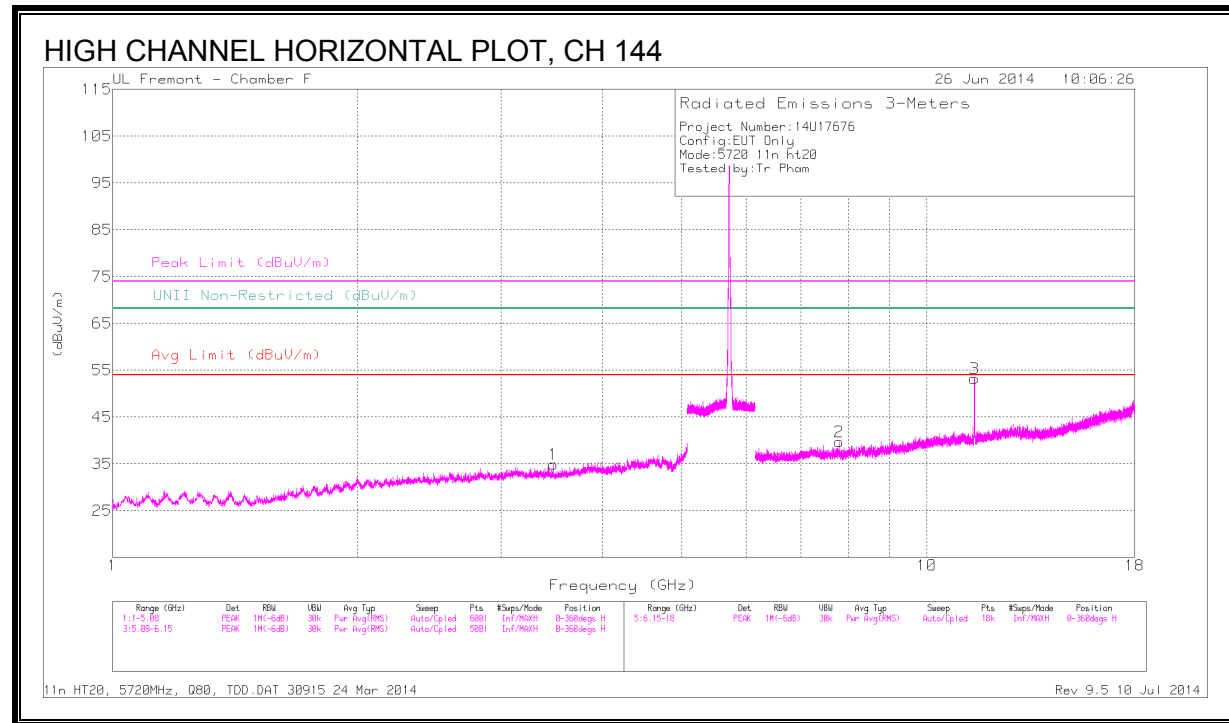
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.799	41.94	PK1	34.1	-32.9	0	43.14	-	-	74	-30.86	-	-	324	132	H
	* 4.799	30.5	AD1	34.1	-32.9	.1	31.8	54	-22.2	-	-	-	-	324	132	H
3	* 2.835	42.17	PK1	32.3	-33.7	0	40.77	-	-	74	-33.23	-	-	303	161	V
	* 2.832	31.13	AD1	32.3	-33.7	.1	29.83	54	-24.17	-	-	-	-	303	161	V
4	* 3.596	41.85	PK1	32.8	-33.3	0	41.35	-	-	74	-32.65	-	-	161	262	V
	* 3.593	30.72	AD1	32.8	-33.1	.1	30.52	54	-23.48	-	-	-	-	161	262	V
5	* 13.254	36.88	PK1	39	-25.7	0	50.18	-	-	74	-23.82	-	-	234	113	H
	* 13.257	26.24	AD1	39	-25.6	.1	39.74	54	-14.26	-	-	-	-	234	113	H
1	1.759	43.62	PK1	29.7	-34.8	0	38.52	-	-	-	-	68.2	-29.68	16	154	H
6	16.548	37.48	PK1	41.4	-26.2	0	52.68	-	-	-	-	68.2	-15.52	107	165	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

10.2.11. TX ABOVE 1 GHz 802.11n HT20 MODE, CHANNEL 144, 5.6 GHz BAND



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 4.738	41.7	PK1	34.3	-31.5	44.5	-	-	74	-29.5	-	-	120	189	V
	* 4.737	30.13	AD1	34.3	-31.5	32.93	54	-21.07	-	-	-	-	120	189	V
3	* 11.443	49.85	PK1	38.1	-25.7	62.25	-	-	74	-11.75	-	-	111	202	H
	* 11.44	37.94	AD1	38.1	-25.7	50.34	54	-3.66	-	-	-	-	111	202	H
5	* 11.439	51.02	PK1	38.1	-25.7	63.42	-	-	74	-10.58	-	-	34	101	V
	* 11.44	38.28	AD1	38.1	-25.7	50.68	54	-3.32	-	-	-	-	34	101	V
6	* 12.274	37.14	PK1	39	-25.7	50.44	-	-	74	-23.56	-	-	102	124	V
	* 12.272	25.76	AD1	39	-25.7	39.06	54	-14.94	-	-	-	-	102	124	V
1	3.476	42.23	PK1	32.8	-33.1	41.93	-	-	-	-	68.2	-26.27	55	144	H
2	7.799	39.09	PK1	36.1	-28.6	46.59	-	-	-	-	68.2	-21.61	73	134	H

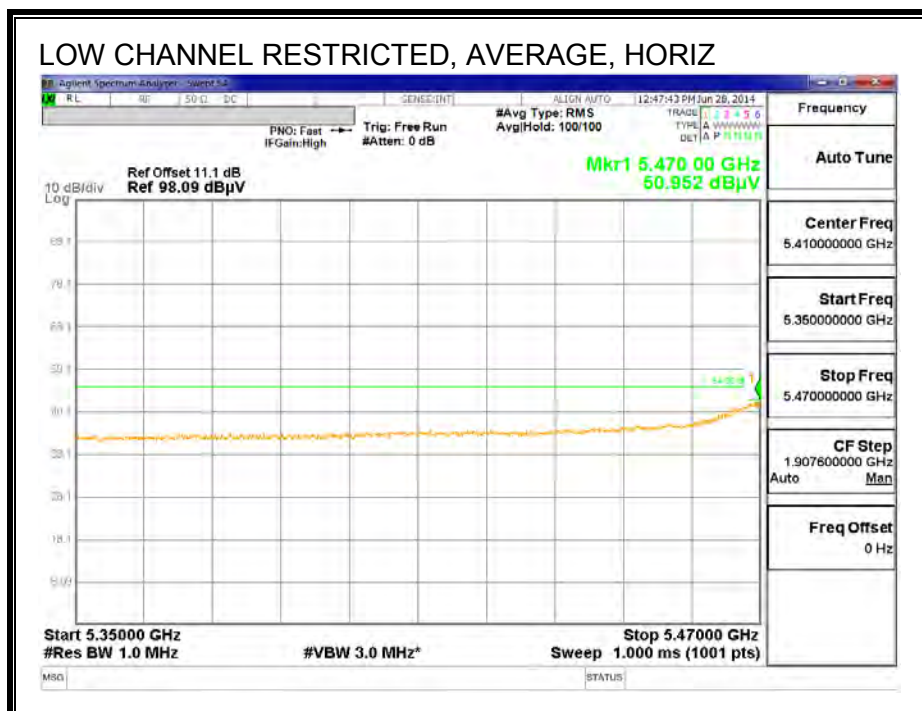
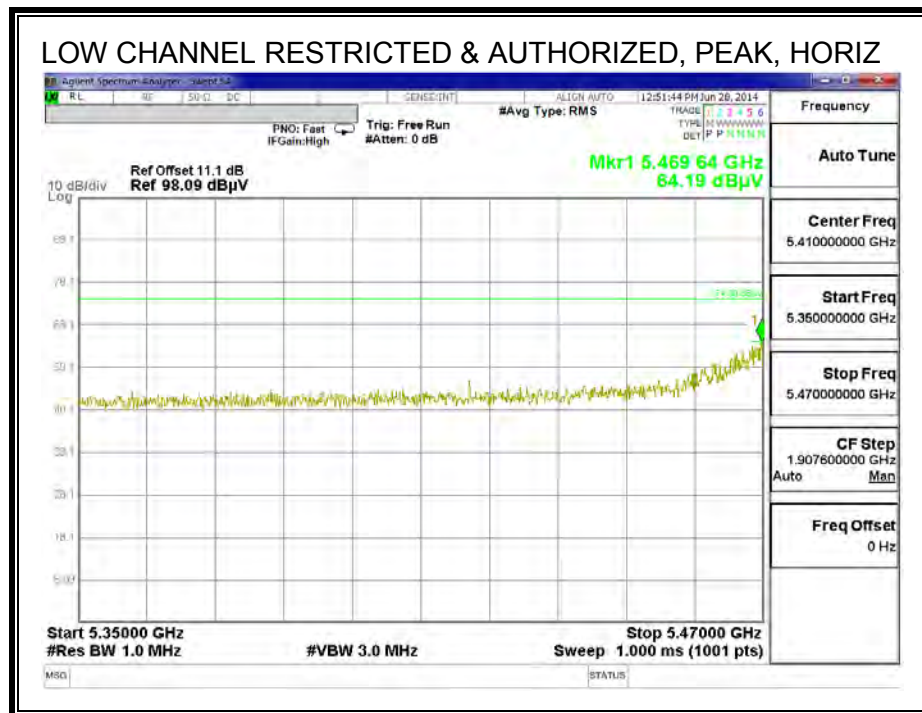
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

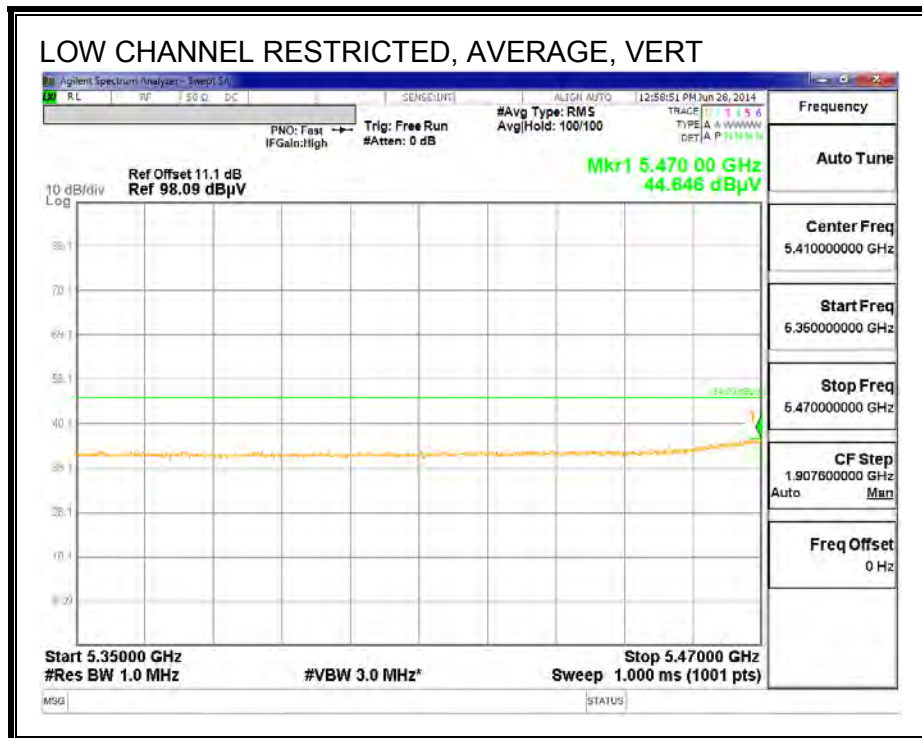
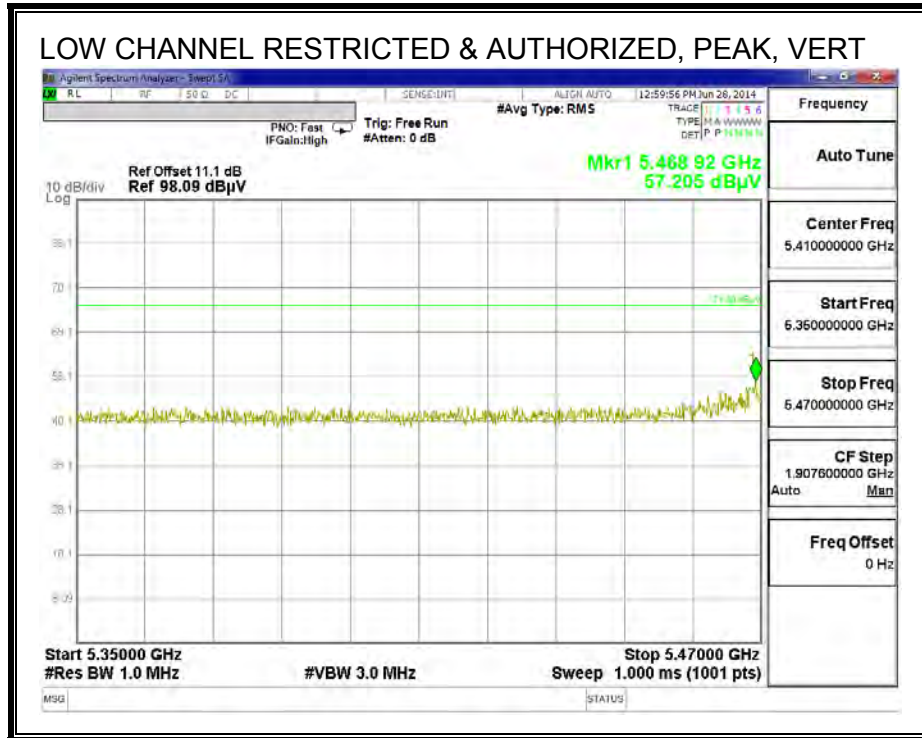
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

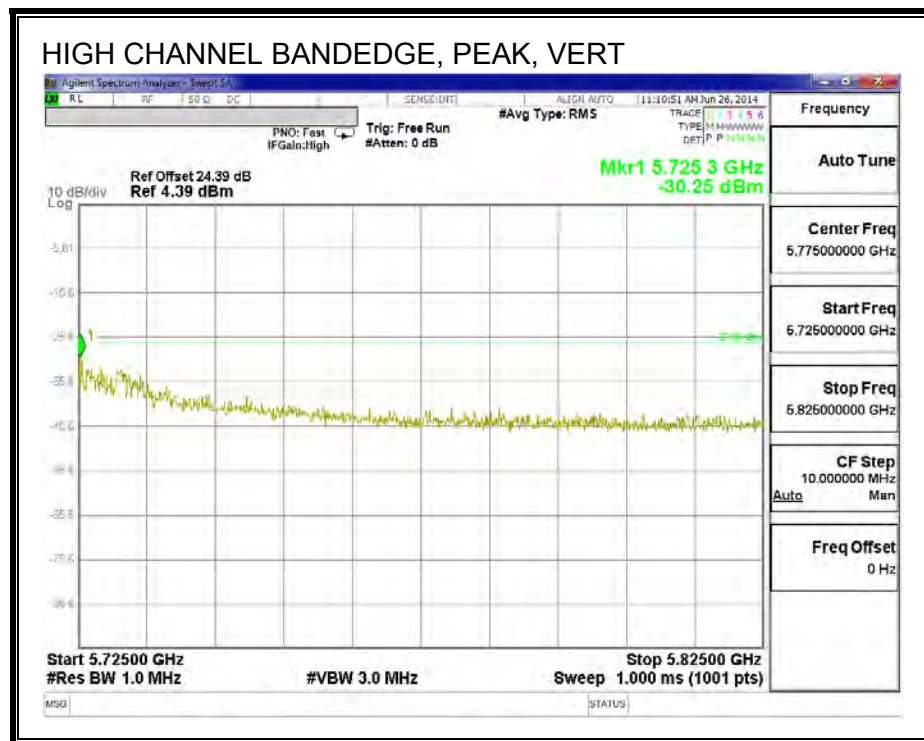
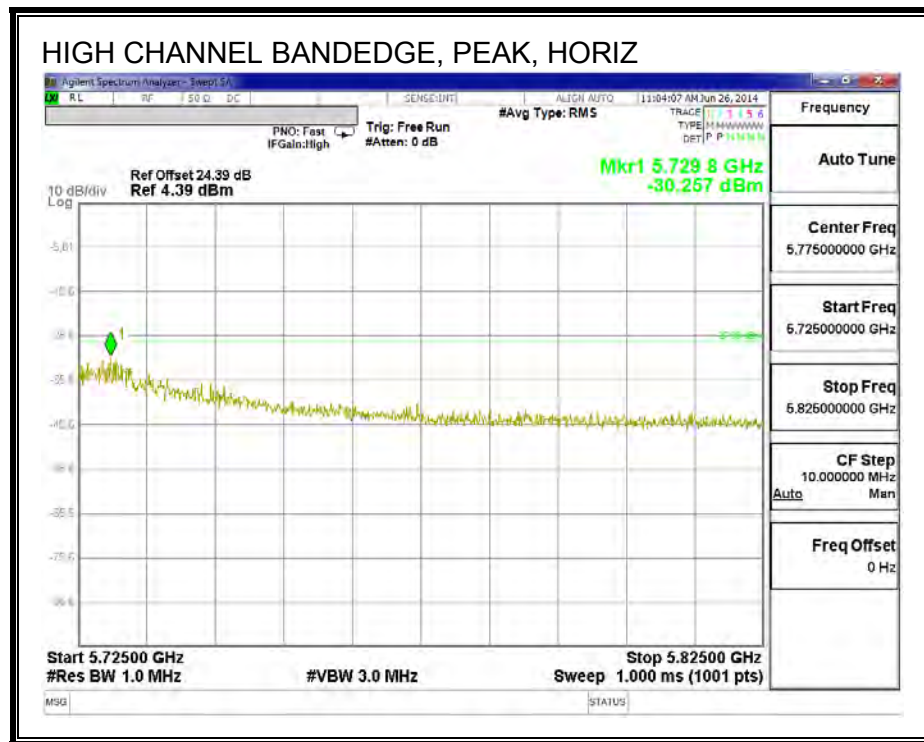
10.2.12. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.6 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)





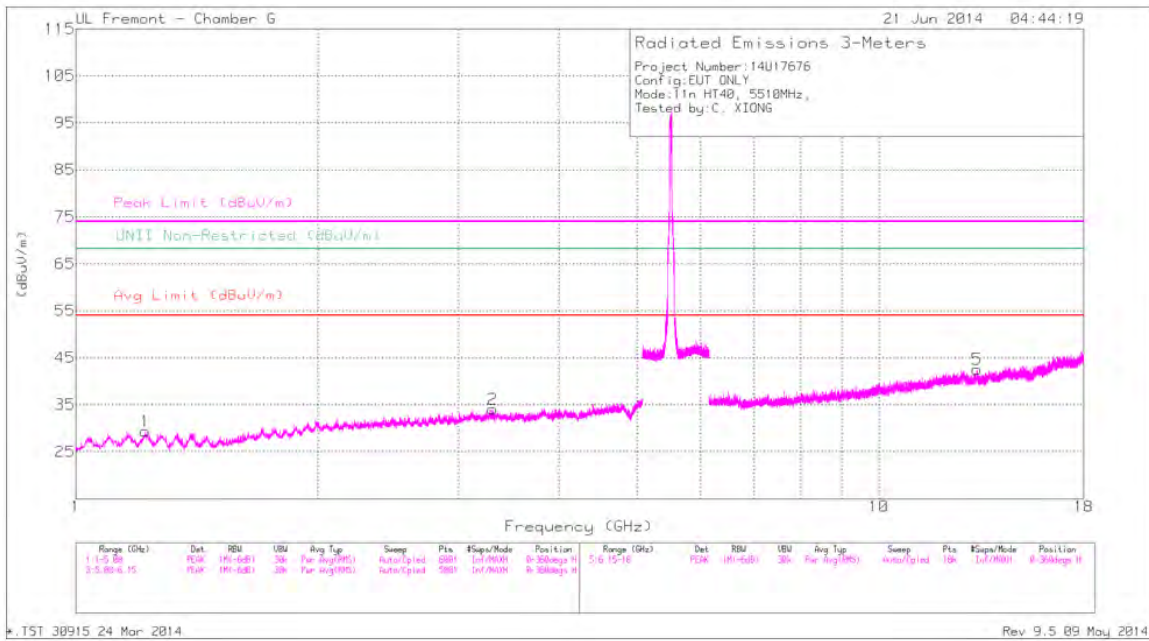
AUTHORIZED BANDEDGE (HIGH CHANNEL)



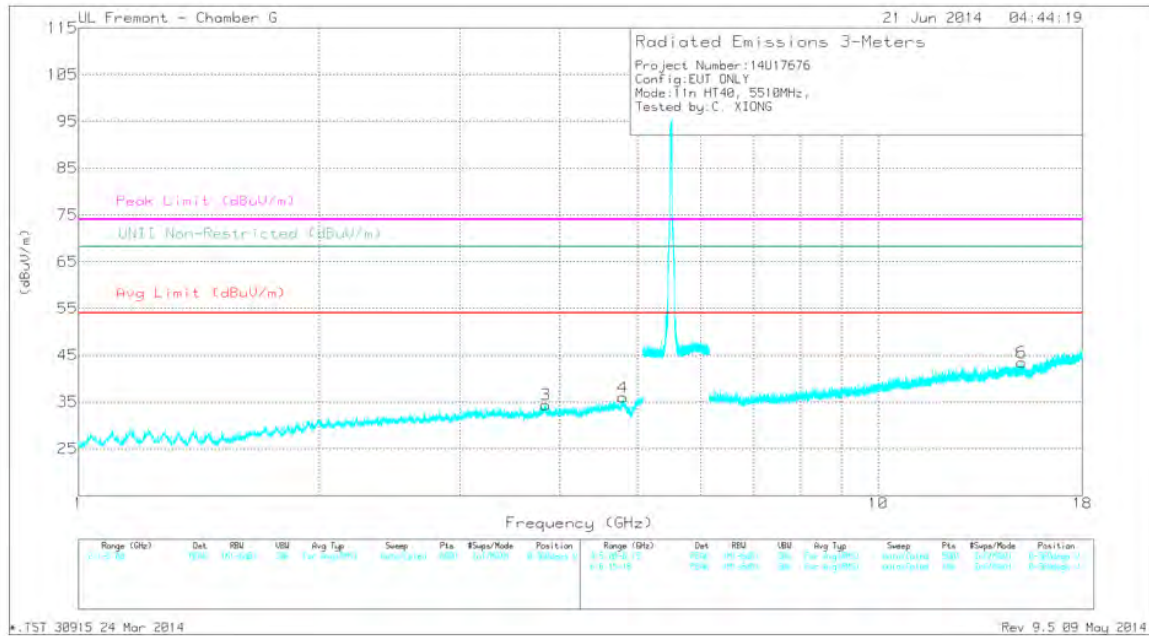
Average measurement was not required since peak measurements comply with -27 dBm/MHz.

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT, CH 102



LOW CHANNEL VERTICAL PLOT, CH 102



DATA

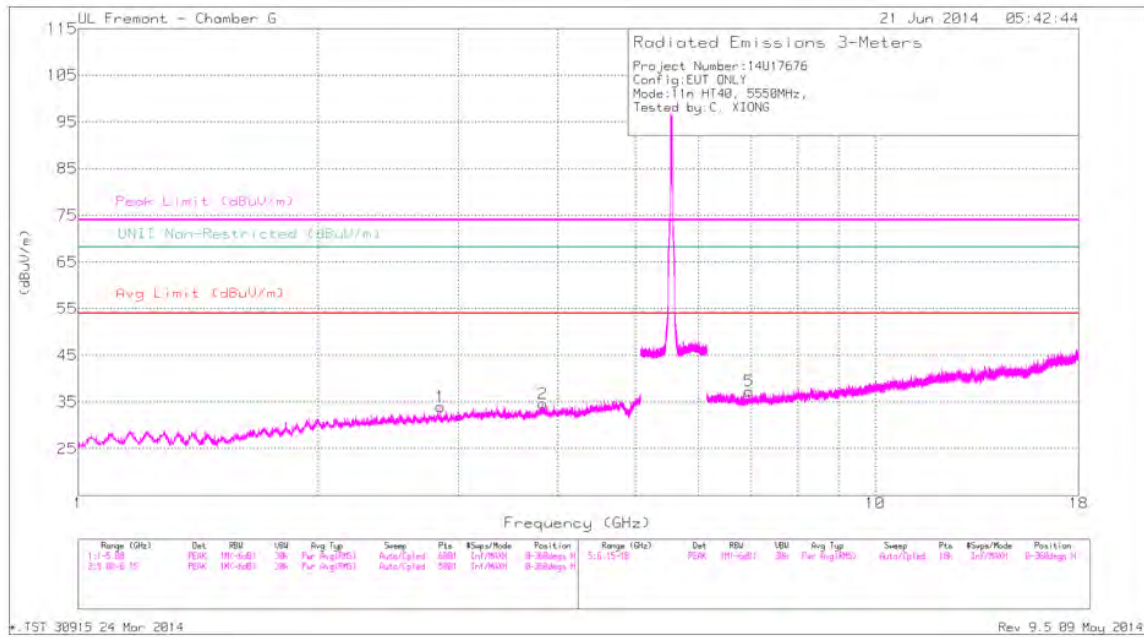
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.217	44.89	PK1	29	-35.7	0	38.19	-	-	74	-35.81	-	-	128	134	H
	* 1.218	32.83	AD1	29	-35.7	.1	26.23	54	-27.77	-	-	-	-	128	134	H
3	* 3.834	42.88	PK1	33.1	-33.3	0	42.68	-	-	74	-31.32	-	-	69	116	V
	* 3.837	31.25	AD1	33.1	-33.4	.1	31.05	54	-22.95	-	-	-	-	69	116	V
4	* 4.793	41.27	PK1	34.1	-32.9	0	42.47	-	-	74	-31.53	-	-	286	201	V
	* 4.796	30.84	AD1	34.1	-32.9	.1	32.14	54	-21.86	-	-	-	-	286	201	V
5	* 13.255	37.31	PK1	39	-25.7	0	50.61	-	-	74	-23.39	-	-	212	289	H
	* 13.257	26.49	AD1	39	-25.6	.1	39.99	54	-14.01	-	-	-	-	212	289	H
2	3.31	42.55	PK1	33	-33.4	0	42.15	-	-	-	-	68.2	-26.05	159	224	H
6	15.115	37.93	PK1	39.8	-27.8	0	49.93	-	-	-	-	68.2	-18.27	52	115	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

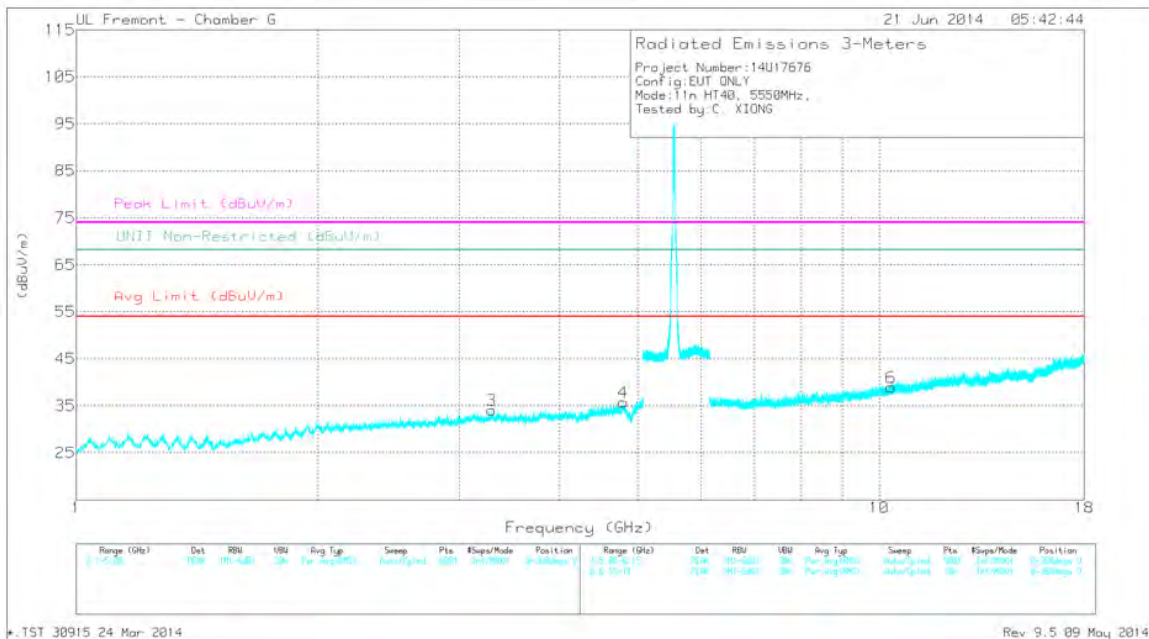
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT, CH 110



MID CHANNEL VERTICAL PLOT, CH 110



DATA

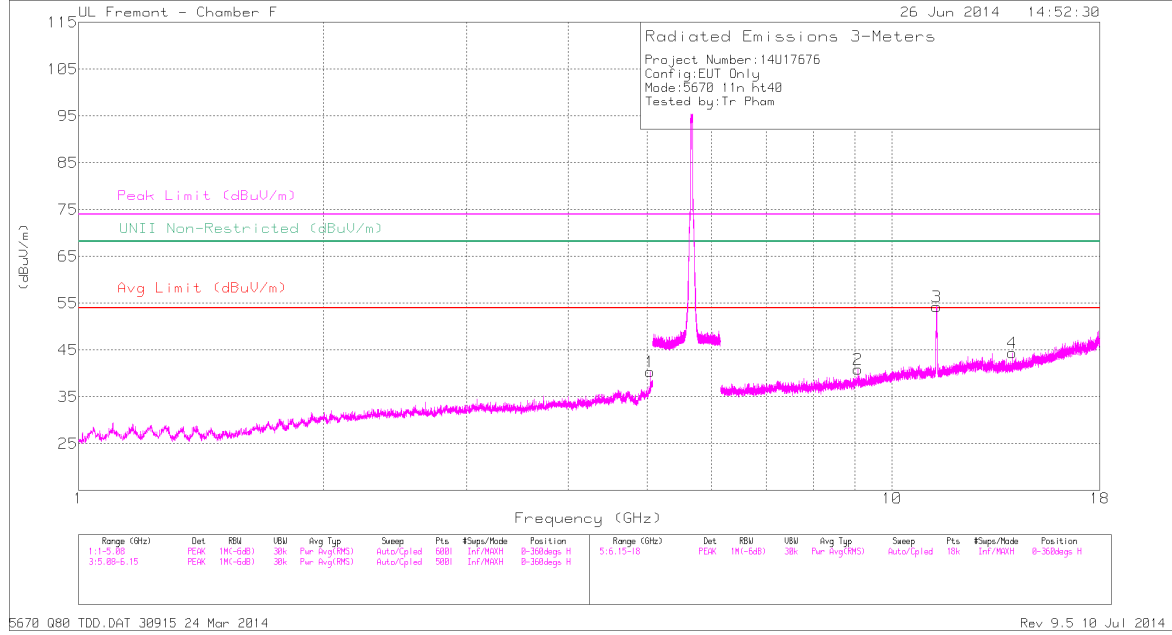
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.845	42.15	PK1	32.3	-33.9	0	40.55	-	-	74	-33.45	-	-	271	120	H
	* 2.844	30.91	AD1	32.3	-33.9	.1	29.41	54	-24.59	-	-	-	-	271	120	H
2	* 3.833	42.31	PK1	33.1	-33.3	0	42.11	-	-	74	-31.89	-	-	138	191	H
	* 3.835	31.12	AD1	33.1	-33.3	.1	31.02	54	-22.98	-	-	-	-	138	191	H
4	* 4.804	40.71	PK1	34.1	-32.9	0	41.91	-	-	74	-32.09	-	-	244	260	V
	* 4.8	30.52	AD1	34.1	-32.9	.1	31.82	54	-22.18	-	-	-	-	244	260	V
3	3.293	42.48	PK1	33	-33.5	0	41.98	-	-	-	-	68.2	-26.22	350	144	V
5	6.949	40.67	PK1	35.6	-32	0	44.27	-	-	-	-	68.2	-23.93	173	123	H
6	10.344	37.73	PK1	37.5	-27.8	0	47.43	-	-	-	-	68.2	-20.77	194	264	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

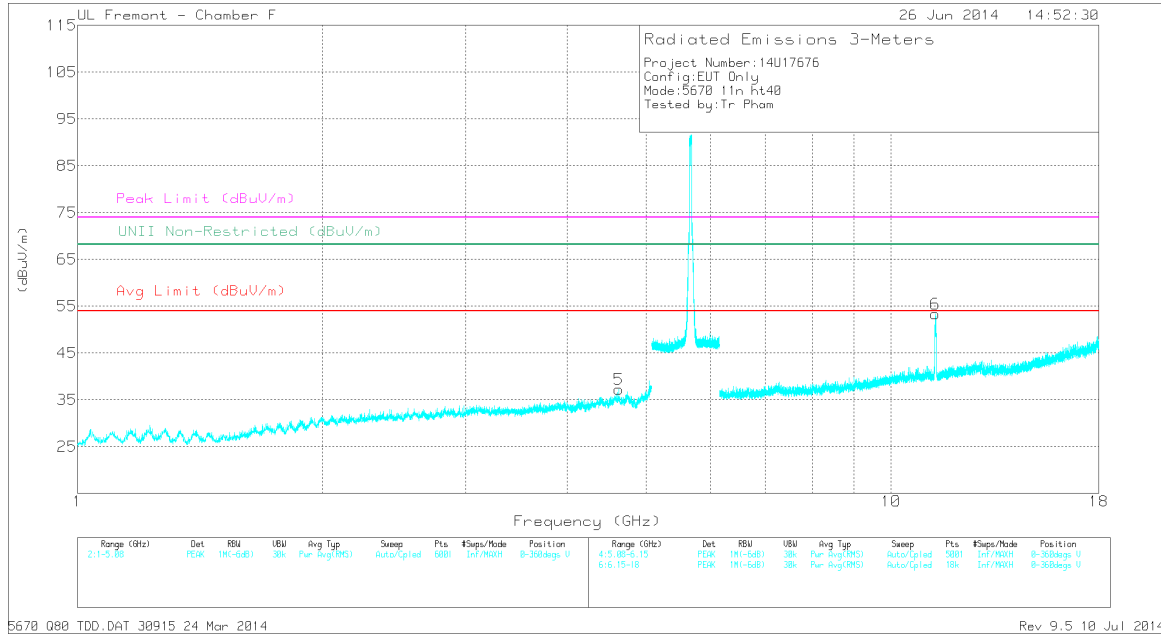
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT, CH 134



HIGH CHANNEL VERTICAL PLOT, CH 134



DATA

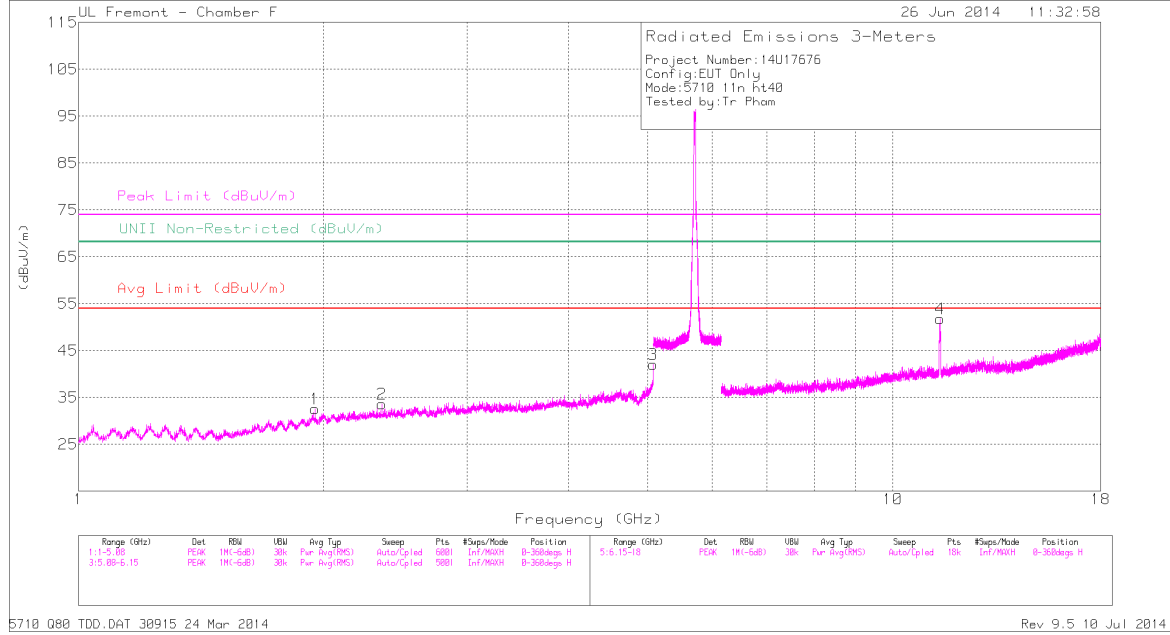
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.04	43.77	PK1	34.4	-30.4	47.77	-	-	74	-26.23	-	-	130	168	H
	* 5.04	33.65	AD1	34.4	-30.4	37.65	54	-16.35	-	-	-	-	130	168	H
5	* 4.628	42.5	PK1	34.2	-32	44.7	-	-	74	-29.3	-	-	108	150	V
	* 4.628	30.3	AD1	34.2	-32	32.5	54	-21.5	-	-	-	-	108	150	V
3	* 11.341	47.21	PK1	38	-25.3	59.91	-	-	74	-14.09	-	-	38	218	H
	* 11.341	35.34	AD1	38	-25.3	48.04	54	-5.96	-	-	-	-	38	218	H
2	* 9.077	38.13	PK1	36.5	-27.1	47.53	-	-	74	-26.47	-	-	188	100	H
	* 9.077	25.93	AD1	36.5	-27.1	35.33	54	-18.67	-	-	-	-	188	100	H
6	* 11.339	49.04	PK1	38	-25.4	61.64	-	-	74	-12.36	-	-	37	229	V
	* 11.341	37.86	AD1	38	-25.3	50.56	54	-3.44	-	-	-	-	37	229	V
4	14.047	37.35	PK1	39.2	-26.2	50.35	-	-	-	-	68.2	-17.85	128	131	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

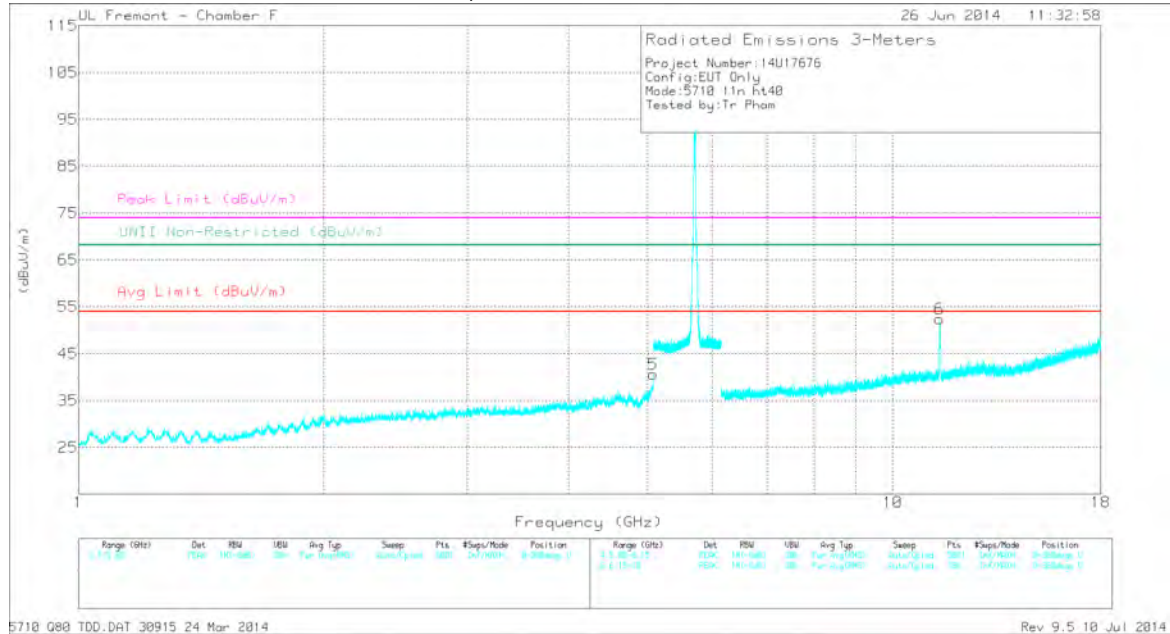
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT, CH 142



HIGH CHANNEL VERTICAL PLOT, CH 142



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 5.076	44.15	PK1	34.4	-28.5	50.05	-	-	74	-23.95	-	-	129	106	H
	* 5.076	33.91	AD1	34.4	-28.5	39.81	54	-14.19	-	-	-	-	129	106	H
2	* 2.357	42.37	PK1	31.9	-33.8	40.47	-	-	74	-33.53	-	-	63	172	H
	* 2.358	30.87	AD1	31.9	-33.8	28.97	54	-25.03	-	-	-	-	63	172	H
5	* 5.075	41.97	PK1	34.4	-28.6	47.77	-	-	74	-26.23	-	-	122	115	V
	* 5.076	31.31	AD1	34.4	-28.5	37.21	54	-16.79	-	-	-	-	122	115	V
4	* 11.417	47.25	PK1	38	-25.5	59.75	-	-	74	-14.25	-	-	3	101	H
	* 11.42	35.6	AD1	38	-25.5	48.1	54	-5.9	-	-	-	-	3	101	H
6	* 11.421	48.92	PK1	38	-25.5	61.42	-	-	74	-12.58	-	-	32	104	V
	* 11.421	37.31	AD1	38	-25.5	49.81	54	-4.19	-	-	-	-	32	104	V
1	1.951	42.68	PK1	31	-34.6	39.08	-	-	-	-	68.2	-29.12	121	129	H

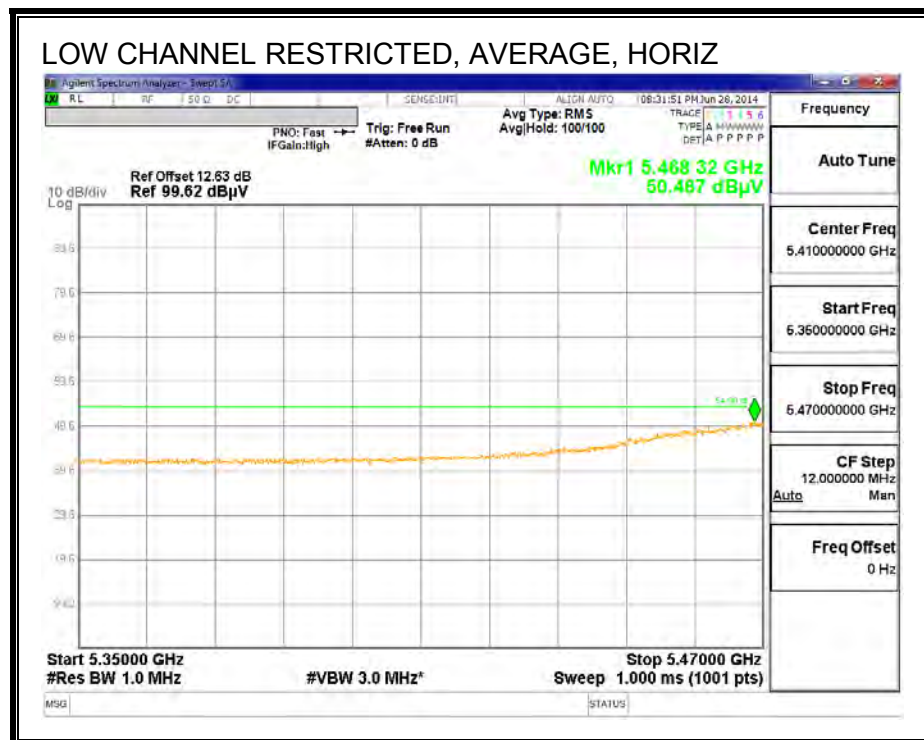
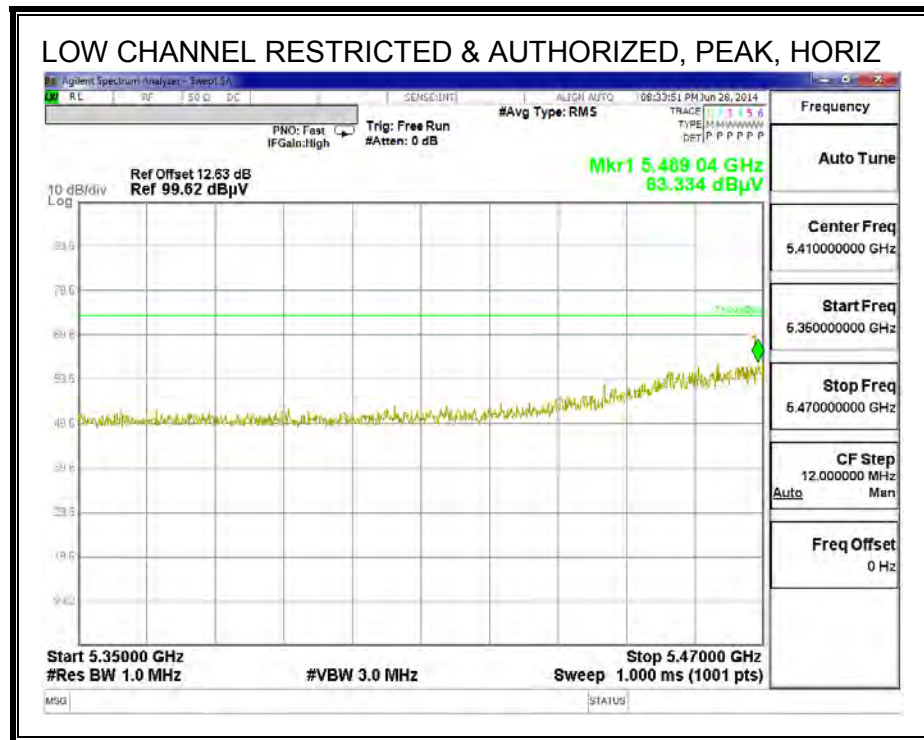
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

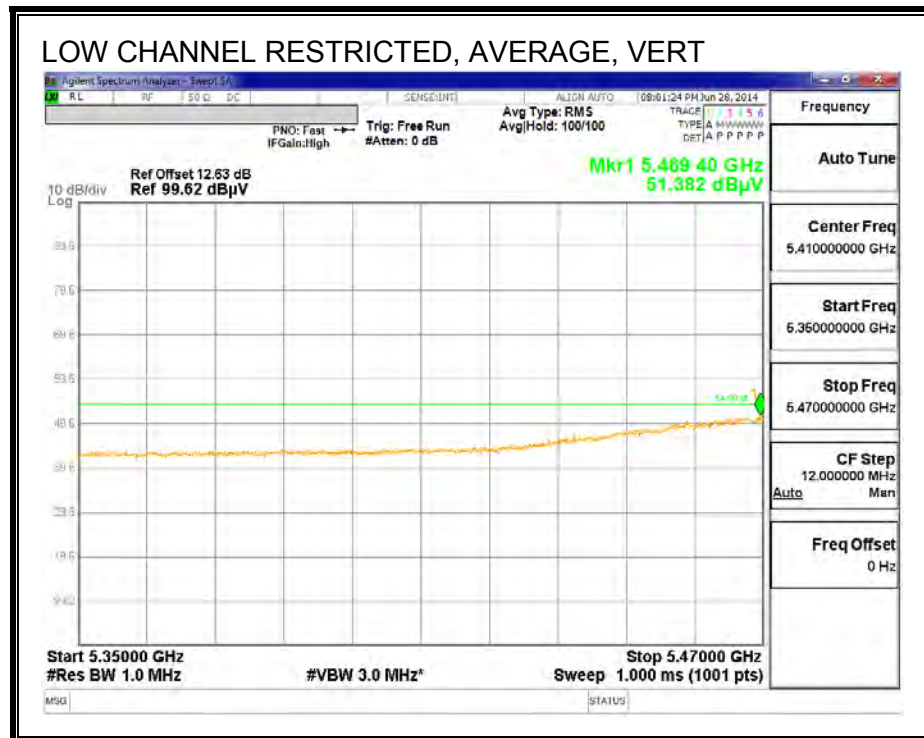
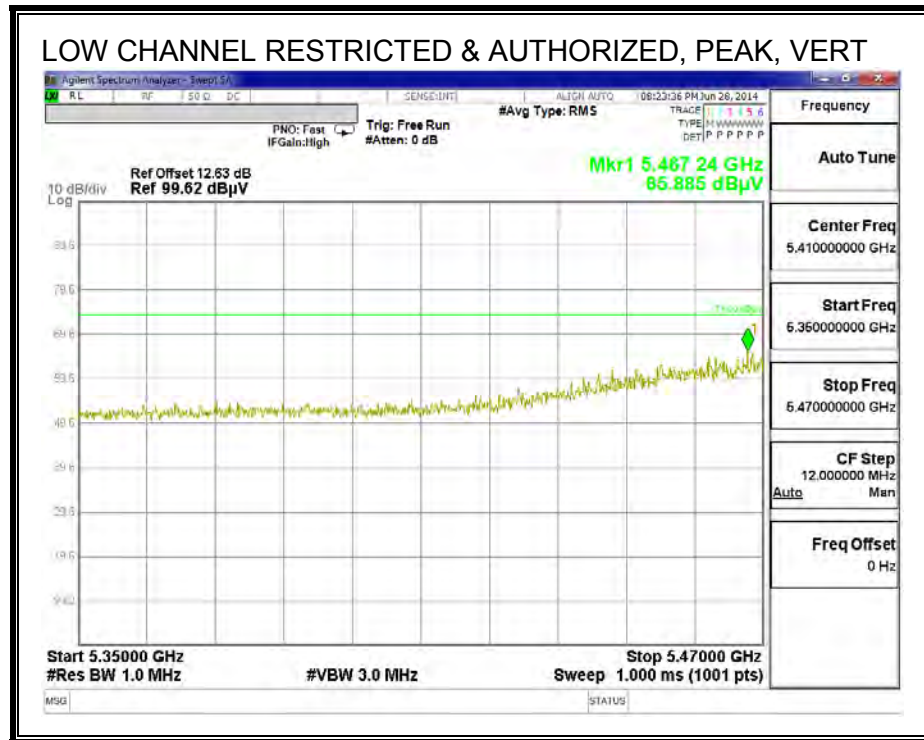
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

10.2.13. TX ABOVE 1G 802.11ac 80MHz MODE IN THE 5.6 GHz BAND

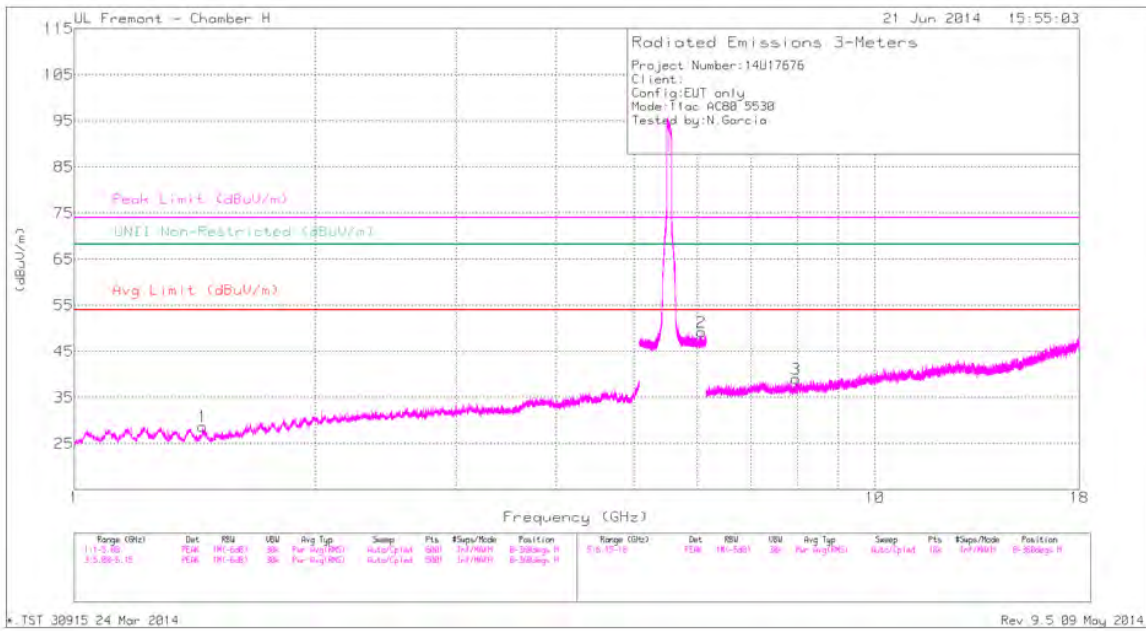
RESTRICTED & AUTHORIZED BANDEGE (LOW CHANNEL, 106)



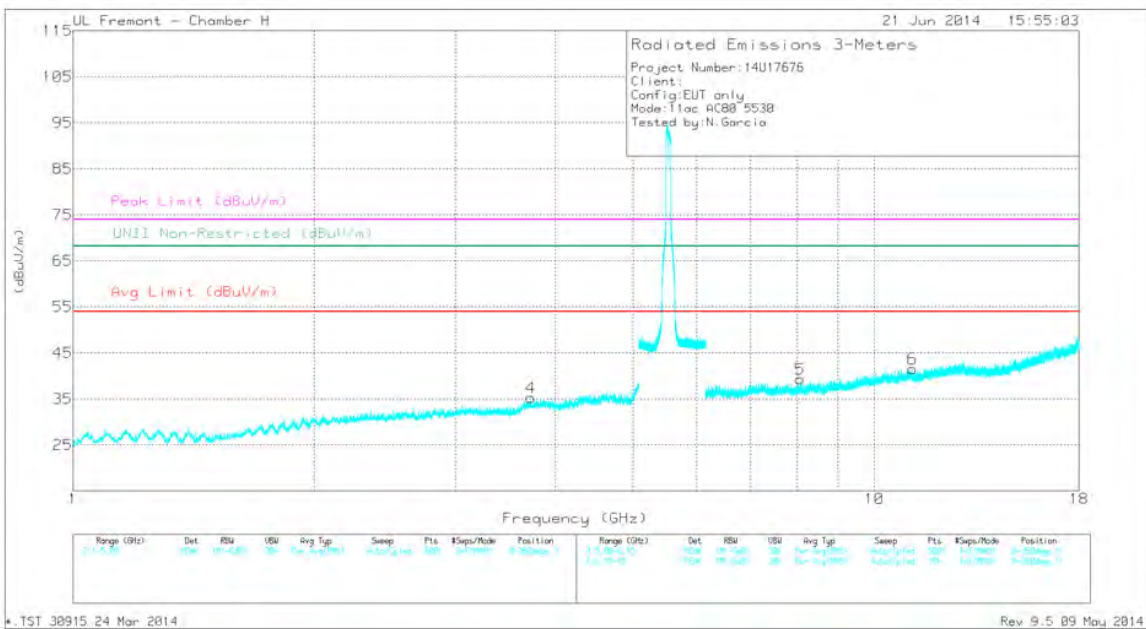


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT, CH 106



LOW CHANNEL VERTICAL PLOT, CH 106



DATA

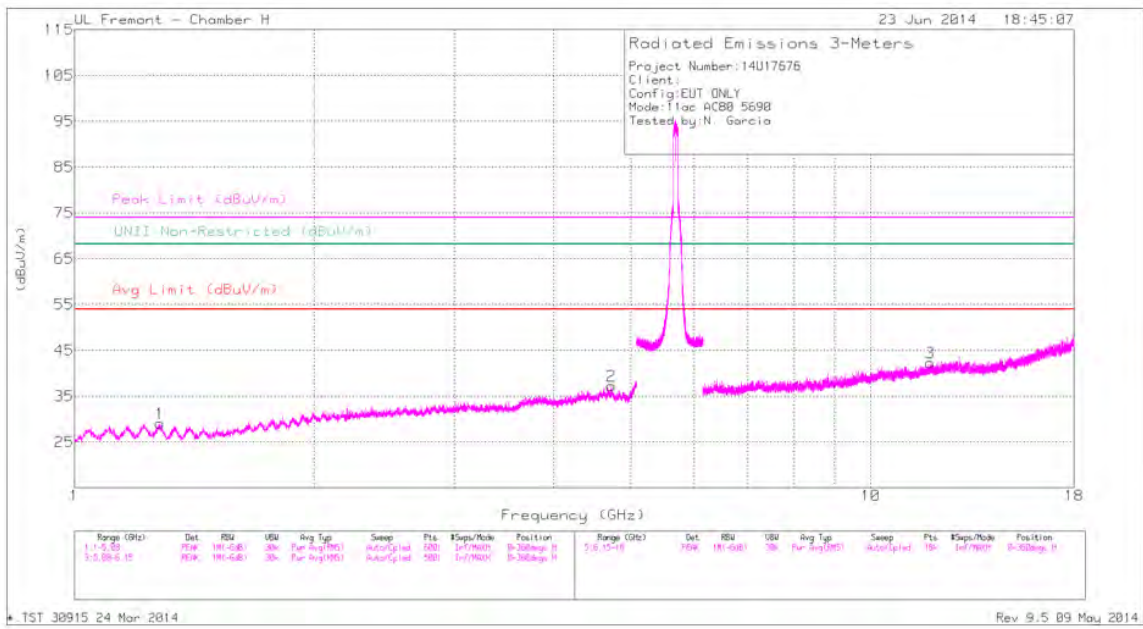
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.448	42.94	PK1	28	-34.8	0	36.14	-	-	74	-37.86	-	-	341	109	H
	* 1.448	31.91	AD1	28	-34.8	.2	25.31	54	-28.69	-	-	-	-	341	109	H
4	* 3.726	42.65	PK1	33.2	-32.9	0	42.95	-	-	74	-31.05	-	-	246	163	V
	* 3.724	30.97	AD1	33.2	-32.8	.2	31.57	54	-22.43	-	-	-	-	246	163	V
5	* 8.075	39.79	PK1	36	-28.1	0	47.69	-	-	74	-26.31	-	-	245	226	V
	* 8.076	27.7	AD1	36	-28.1	.2	35.8	54	-18.2	-	-	-	-	245	226	V
6	* 11.149	36.73	PK1	37.9	-25.4	0	49.23	-	-	74	-24.77	-	-	109	201	V
	* 11.151	25.65	AD1	37.9	-25.4	.2	38.35	54	-15.65	-	-	-	-	109	201	V
2	6.068	42.26	PK1	35.3	-22	0	55.56	-	-	-	-	68.2	-12.64	153	212	H
3	7.969	39.38	PK1	36	-29.6	0	45.78	-	-	-	-	68.2	-22.42	50	266	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

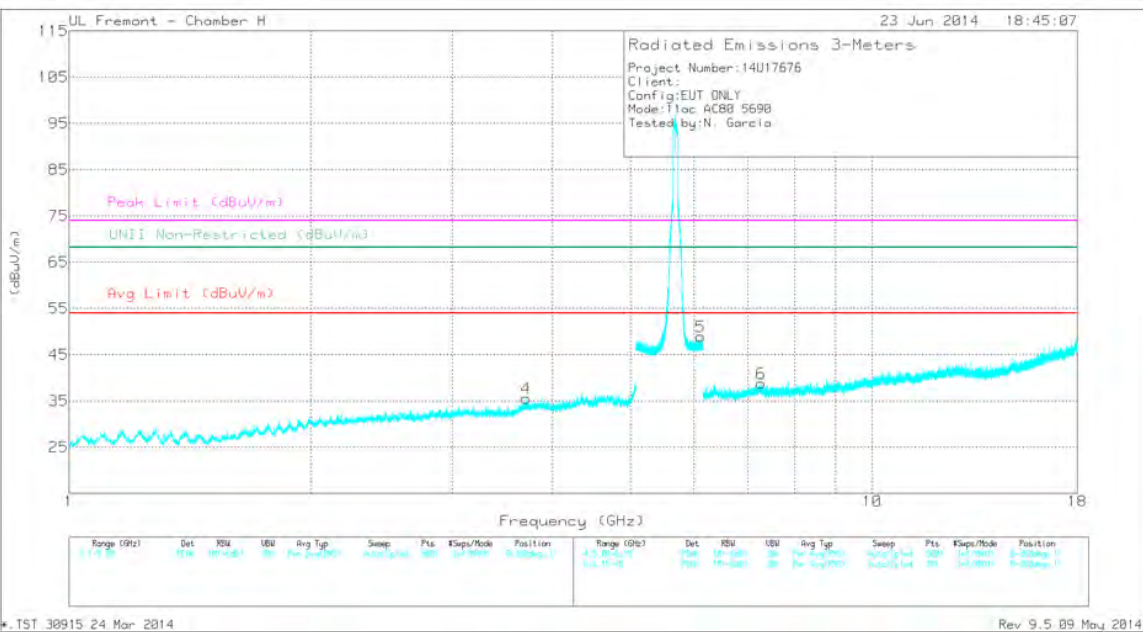
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT, CH 138



HIGH CHANNEL VERTICAL PLOT, CH 138



DATA

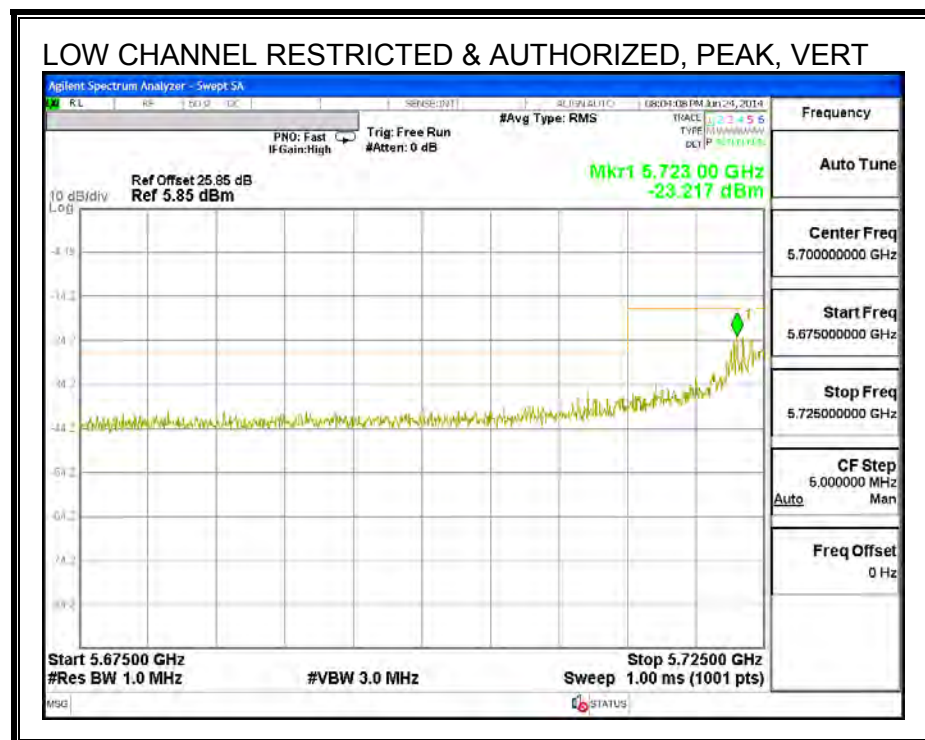
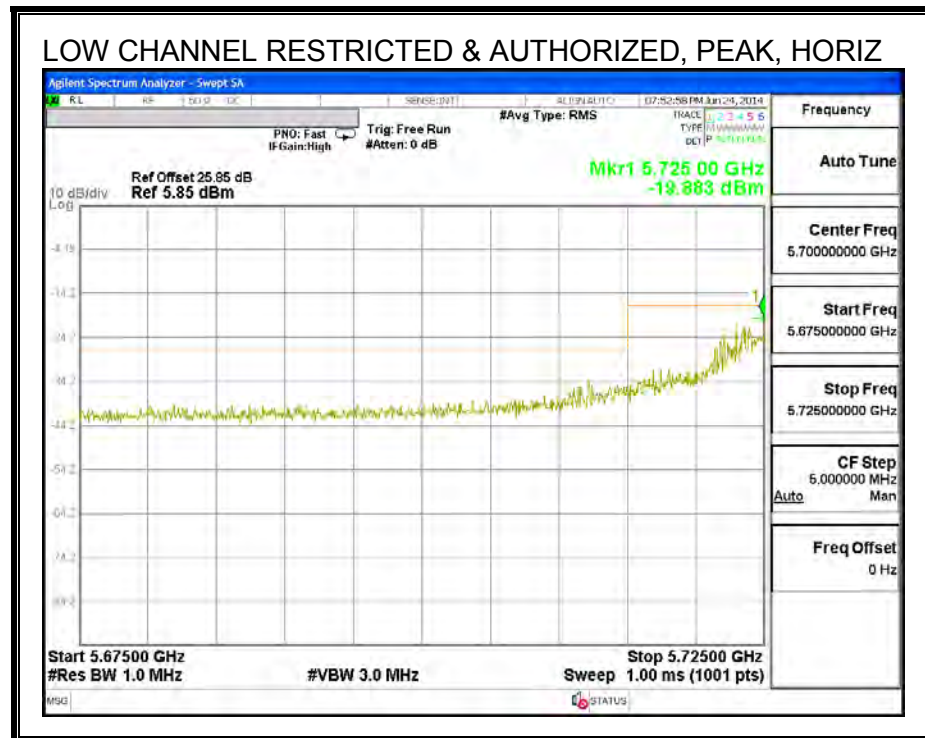
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.28	44.12	PK1	28.8	-35.7	0	37.22	-	-	74	-36.78	-	-	360	136	H
	* 1.281	32.77	AD1	28.8	-35.7	.2	26.07	54	-27.93	-	-	-	-	360	136	H
2	* 4.724	41.02	PK1	34.3	-31.4	0	43.92	-	-	74	-30.08	-	-	211	147	H
	* 4.724	29.78	AD1	34.3	-31.4	.2	32.88	54	-21.12	-	-	-	-	211	147	H
4	* 3.71	41.61	PK1	33.1	-32.5	0	42.21	-	-	74	-31.79	-	-	81	102	V
	* 3.71	30.83	AD1	33.1	-32.5	.2	31.63	54	-22.37	-	-	-	-	81	102	V
5	* 11.877	36.84	PK1	38.7	-25.4	0	50.14	-	-	74	-23.86	-	-	171	289	H
	* 11.874	25.75	AD1	38.6	-25.4	.2	39.15	54	-14.85	-	-	-	-	171	289	H
6	* 7.278	39.42	PK1	36.2	-29.5	0	46.12	-	-	74	-27.88	-	-	4	271	V
	* 7.277	28.62	AD1	36.2	-29.4	.2	35.62	54	-18.38	-	-	-	-	4	271	V
1	6.11	42.32	PK1	35.3	-22	0	55.62	-	-	-	-	68.2	-12.58	115	175	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

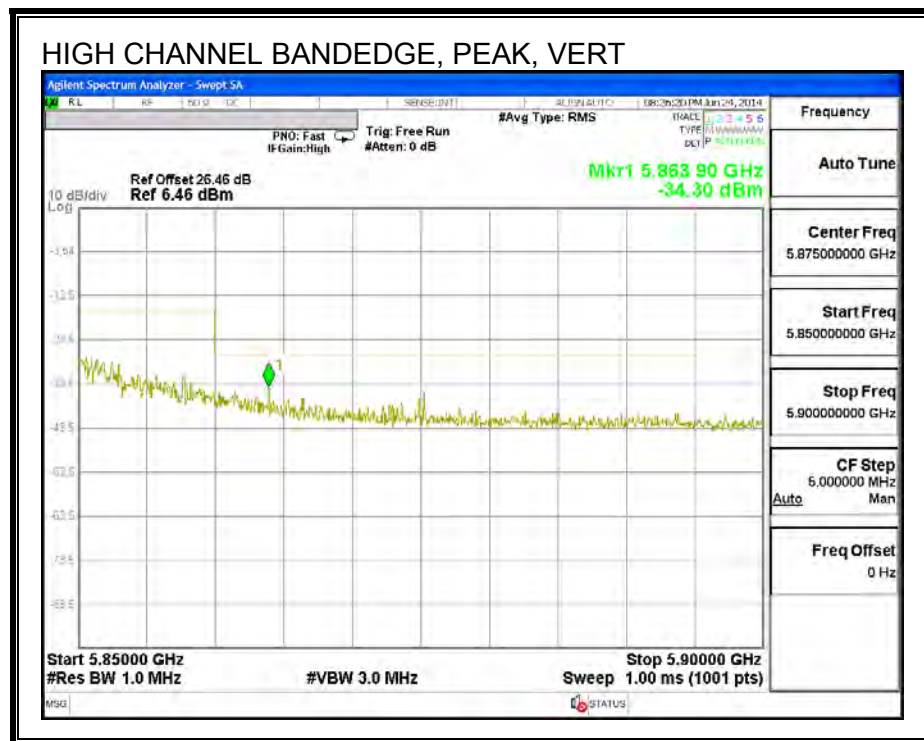
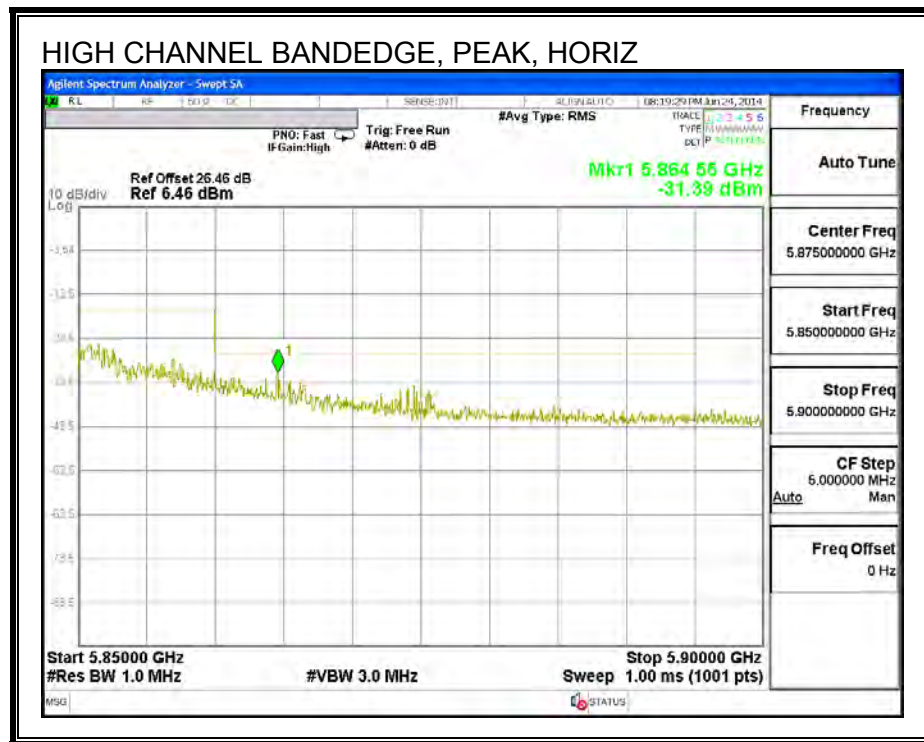
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

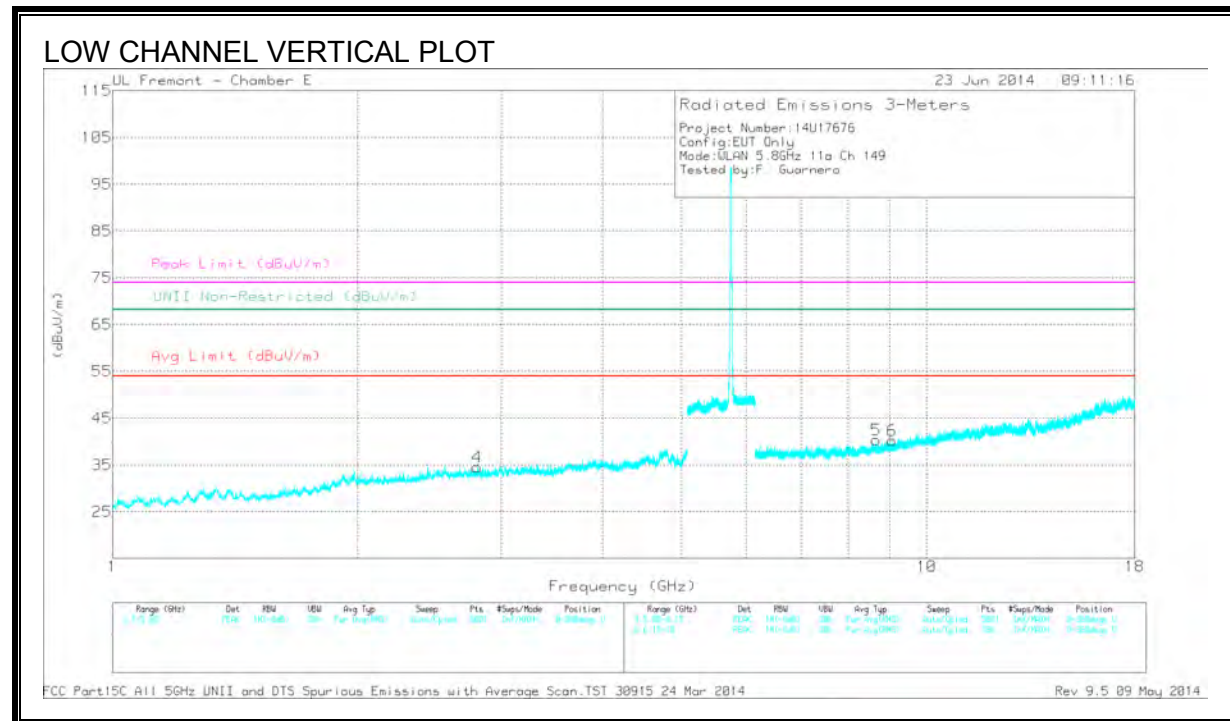
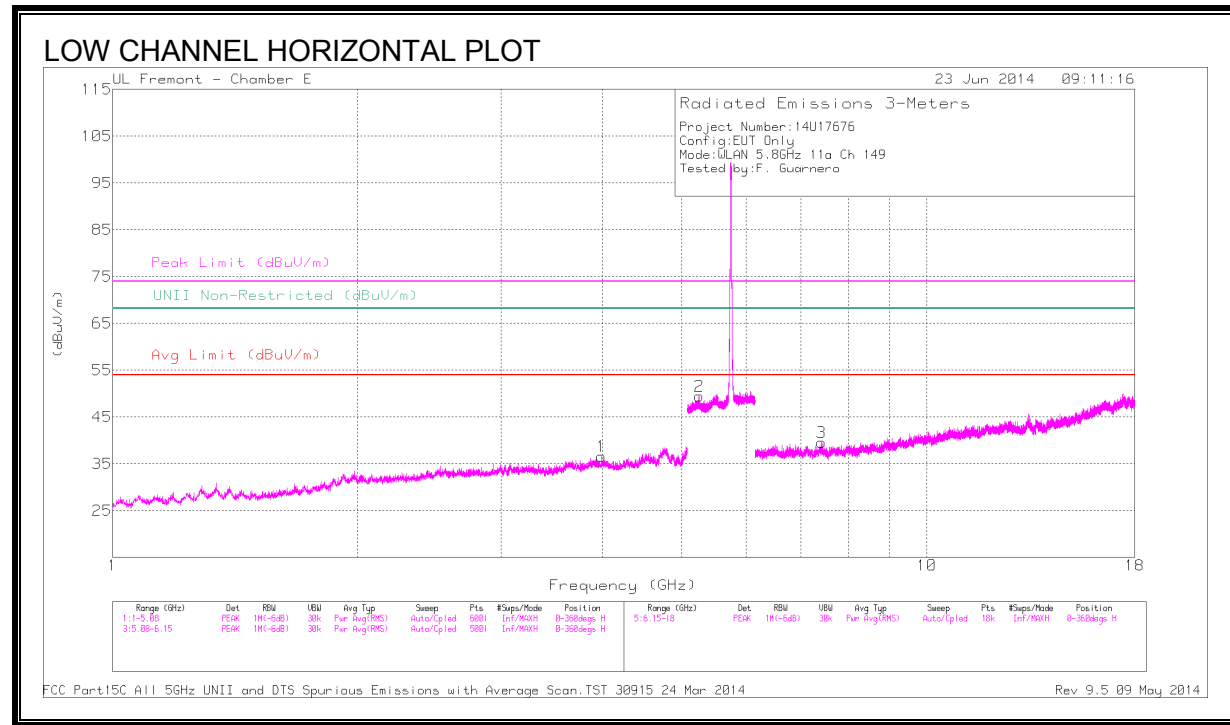
RESTRICTED & AUTHORIZED BANEDGE (LOW CHANNEL)



AUTHORIZED BANDEDGE (HIGH CHANNEL)



HARMONICS AND SPURIOUS EMISSIONS



DATA

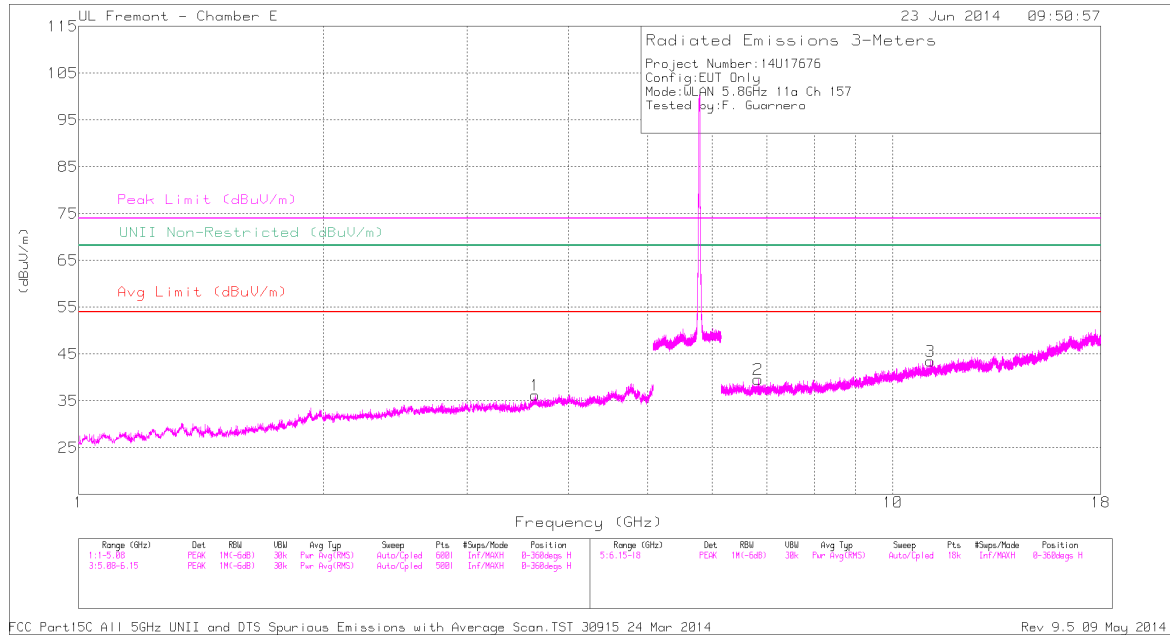
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.985	42.93	PK1	33.4	-31.8	44.53	-	-	74	-29.47	-	-	293	266	H
* 3.985	30.64	AD1	33.4	-31.8	32.24	54	-21.76	-	-	-	-	293	266	H
* 2.802	42.74	PK1	32.4	-32.1	43.04	-	-	74	-30.96	-	-	337	205	V
* 2.802	30.29	AD1	32.4	-32.1	30.59	54	-23.41	-	-	-	-	337	205	V
* 7.429	42.94	PK1	35.7	-28.3	50.34	-	-	74	-23.66	-	-	297	215	H
* 7.429	31.36	AD1	35.7	-28.3	38.76	54	-15.24	-	-	-	-	297	215	H
* 9.057	42.63	PK1	36.4	-26.1	52.93	-	-	74	-21.07	-	-	291	199	V
* 9.057	30.69	AD1	36.4	-26.1	40.99	54	-13.01	-	-	-	-	291	199	V
5.249	44.05	PK1	34.3	-21.1	57.25	-	-	-	-	68.2	-10.95	290	229	H
8.668	43.49	PK1	36	-26.5	52.99	-	-	-	-	68.2	-15.21	236	259	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

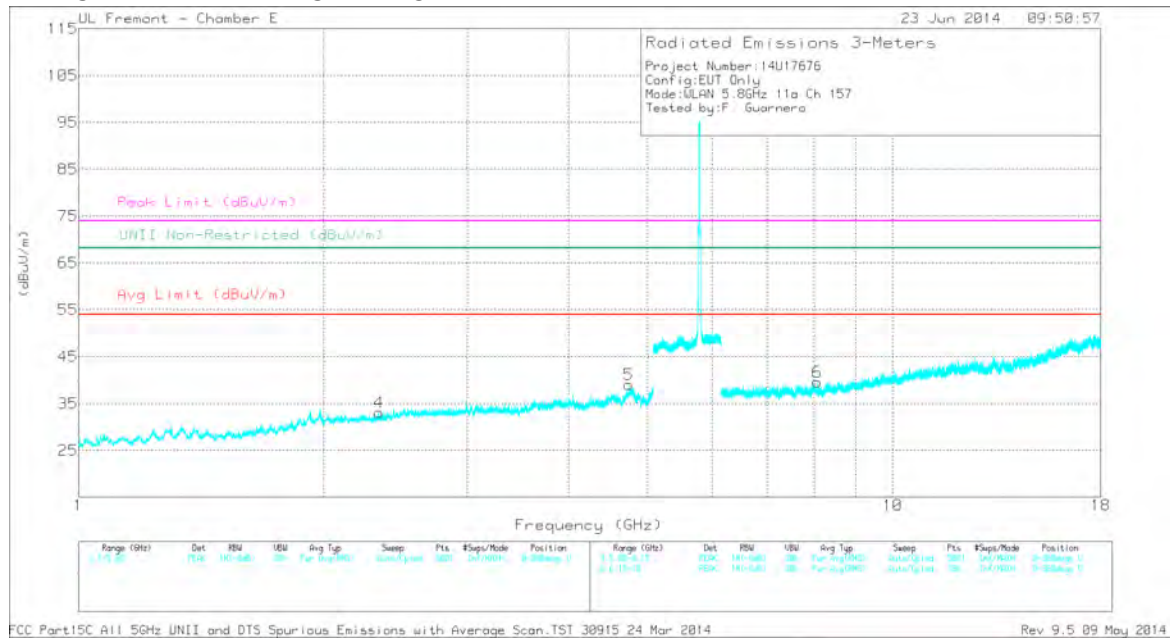
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



DATA

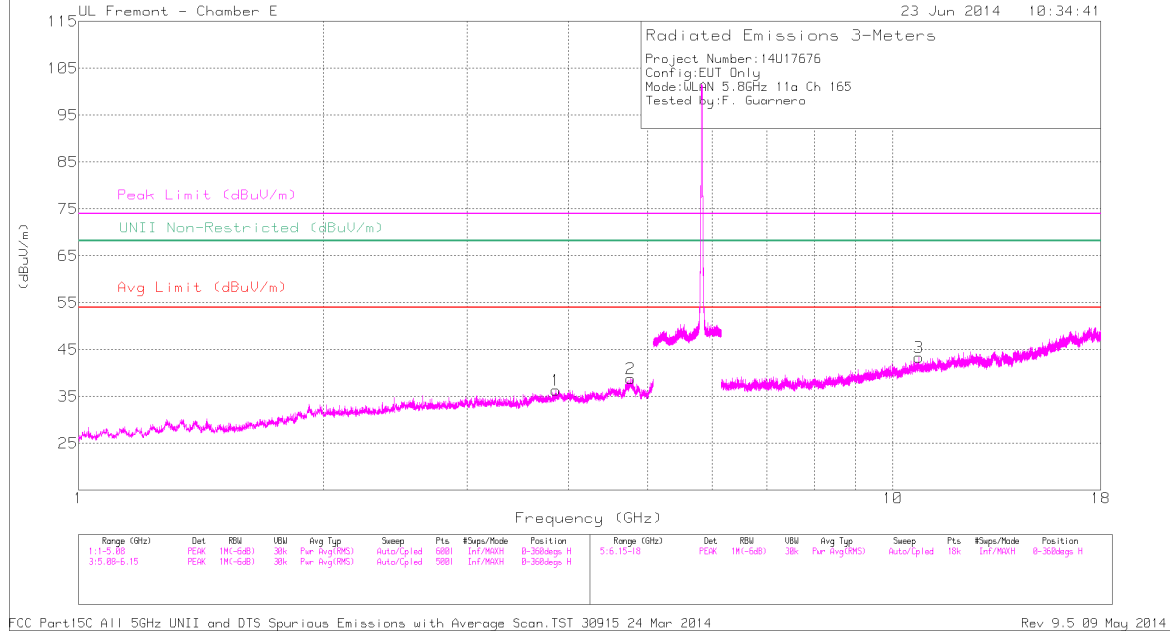
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.635	41.6	PK1	33.2	-30.8	44	-	-	74	-30	-	-	227	282	H
* 3.635	29.94	AD1	33.2	-30.8	32.34	54	-21.66	-	-	-	-	227	282	H
* 2.338	43.01	PK1	31.7	-33.4	41.31	-	-	74	-32.69	-	-	234	274	V
* 2.338	31.17	AD1	31.7	-33.4	29.47	54	-24.53	-	-	-	-	234	274	V
* 4.741	42.91	PK1	34.1	-30.6	46.41	-	-	74	-27.59	-	-	104	235	V
* 4.741	31.09	AD1	34.1	-30.6	34.59	54	-19.41	-	-	-	-	104	235	V
* 11.119	37.38	PK1	37.9	-24.1	51.18	-	-	74	-22.82	-	-	210	130	H
* 11.115	25.38	AD1	37.9	-24.2	39.08	54	-14.92	-	-	-	-	210	130	H
* 8.084	38.71	PK1	35.9	-27.8	46.81	-	-	74	-27.19	-	-	238	195	V
* 8.078	27.54	AD1	35.9	-27.9	35.54	54	-18.46	-	-	-	-	238	195	V
6.829	39.44	PK1	35.9	-28.8	46.54	-	-	-	-	68.2	-21.66	227	115	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

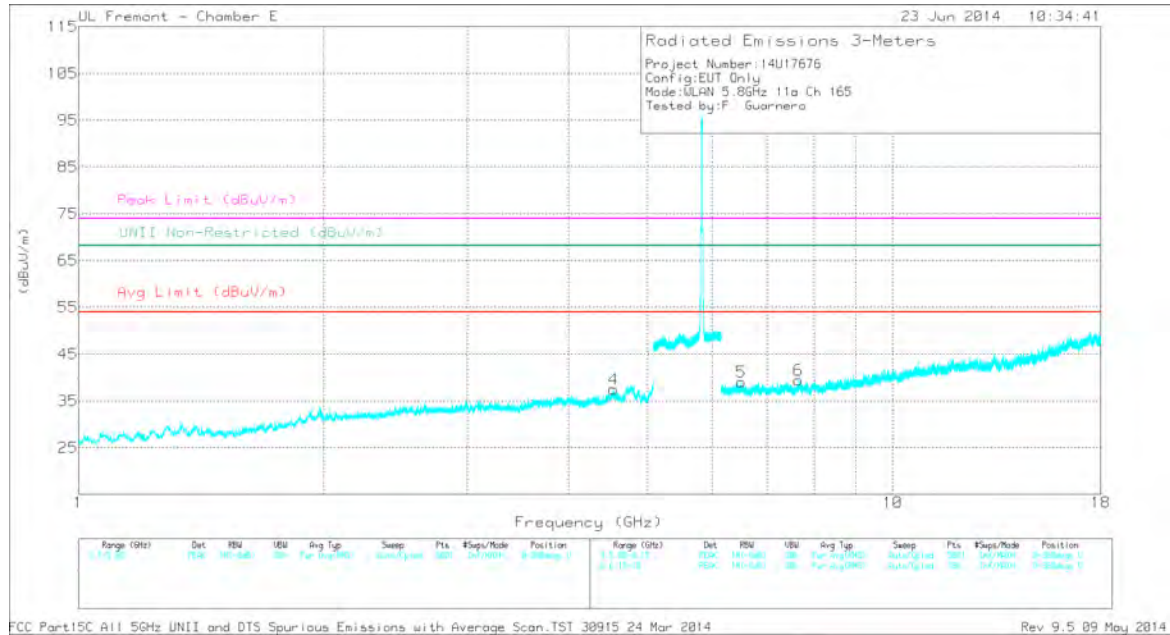
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.852	41.65	PK1	33.5	-31.1	44.05	-	-	74	-29.95	-	-	154	336	H
* 3.854	30.17	AD1	33.5	-31	32.67	54	-21.33	-	-	-	-	154	336	H
* 4.764	42.72	PK1	34.1	-30.6	46.22	-	-	74	-27.78	-	-	159	285	H
* 4.765	31.49	AD1	34.1	-30.5	35.09	54	-18.91	-	-	-	-	159	285	H
* 4.539	41.57	PK1	34	-30.6	44.97	-	-	74	-29.03	-	-	199	288	V
* 4.538	30.14	AD1	34	-30.6	33.54	54	-20.46	-	-	-	-	199	288	V
* 10.757	36.04	PK1	37.9	-23.7	50.24	-	-	74	-23.76	-	-	42	282	H
* 10.756	25.14	AD1	37.9	-23.7	39.34	54	-14.66	-	-	-	-	42	282	H
* 7.654	38.12	PK1	35.8	-27.3	46.62	-	-	74	-27.38	-	-	108	312	V
* 7.654	27.13	AD1	35.8	-27.3	35.63	54	-18.37	-	-	-	-	108	312	V
6.508	39.41	PK1	35.6	-27.9	47.11	-	-	-	-	68.2	-21.09	101	318	V

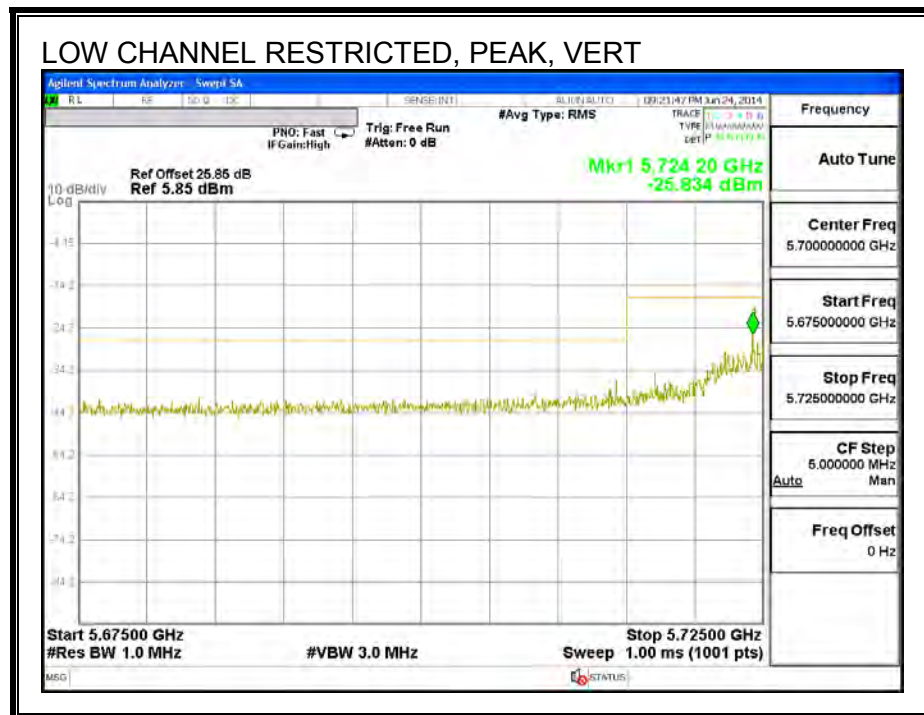
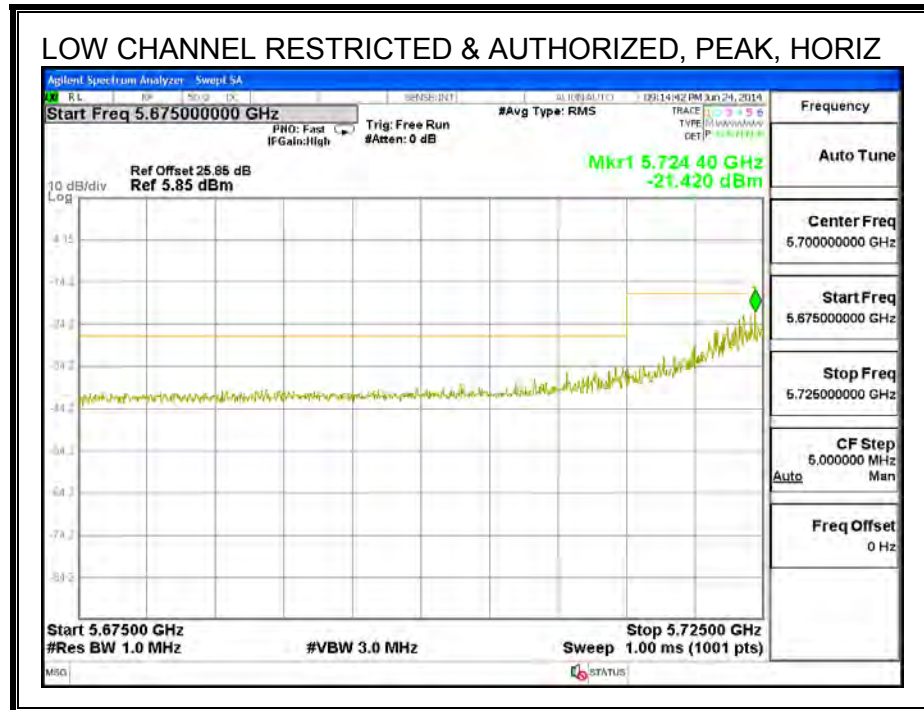
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

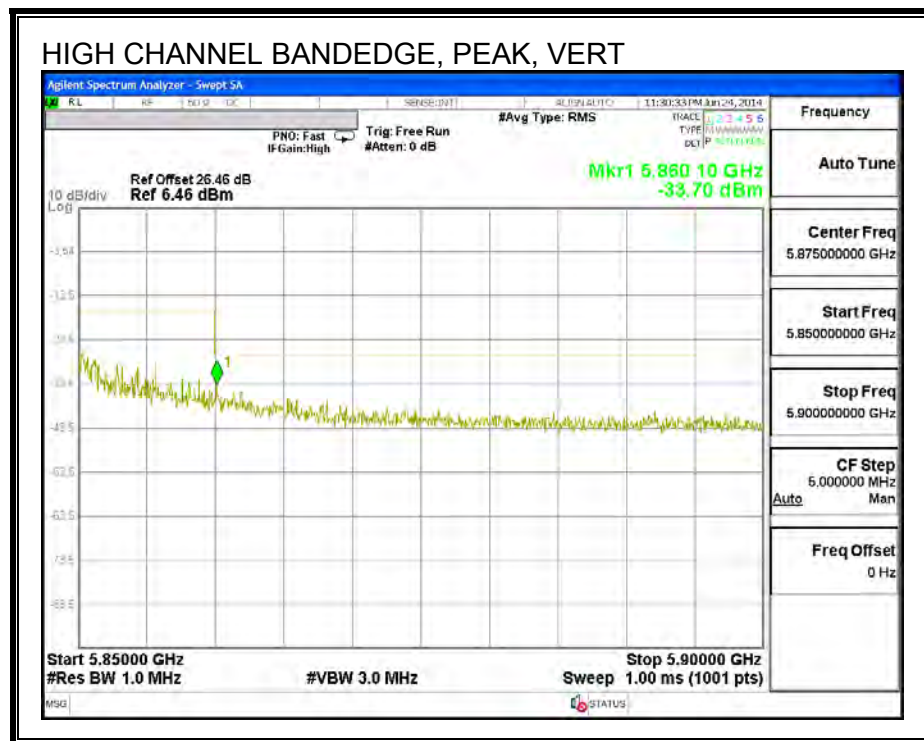
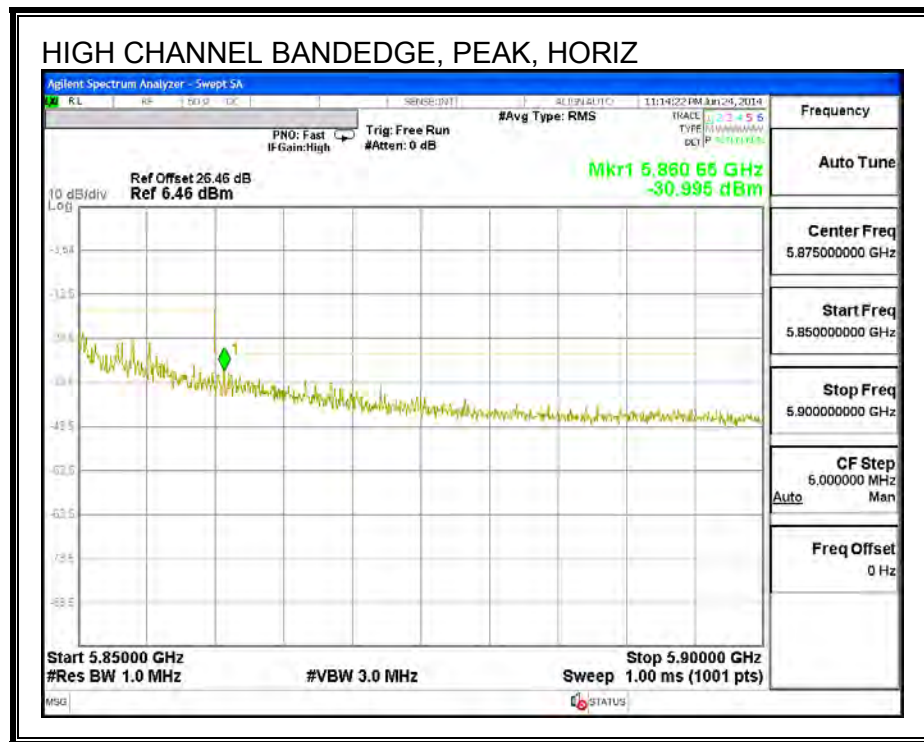
AD1 - KDB789033 Method: AD Primary Power Average

10.2.15. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.8 GHz BAND

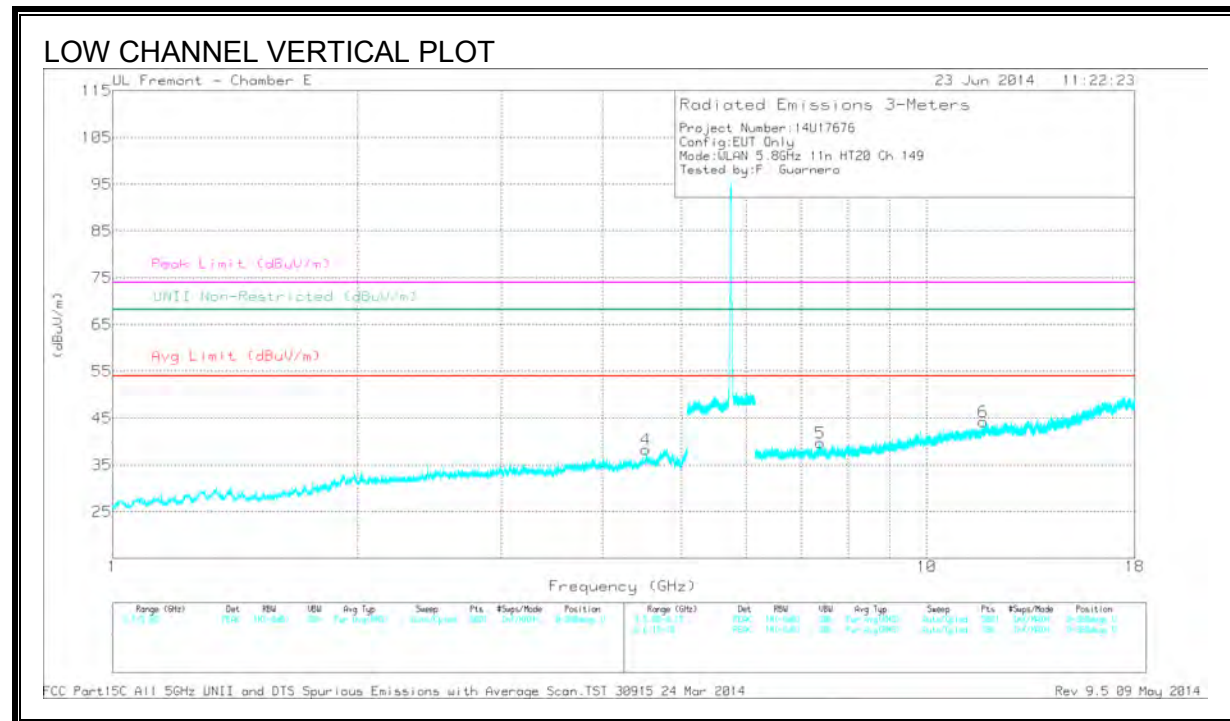
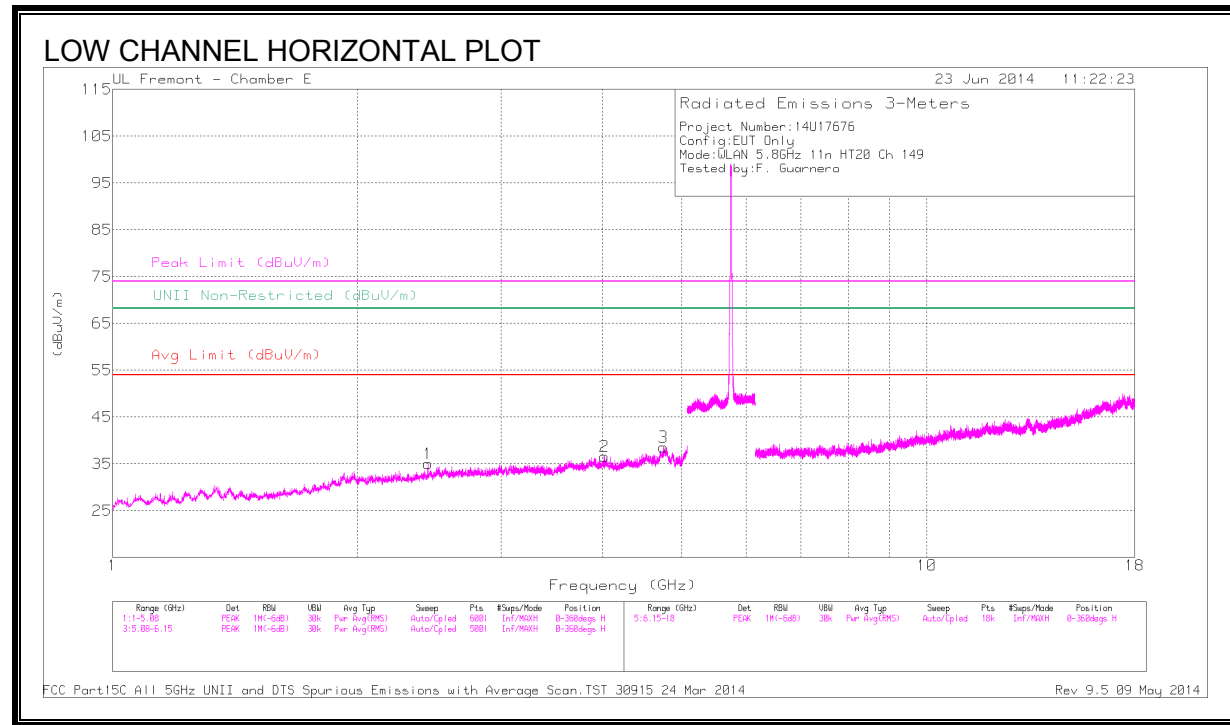
RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)



AUTHORIZED BANDEDGE (HIGH CHANNEL)



HARMONICS AND SPURIOUS EMISSIONS



DATA

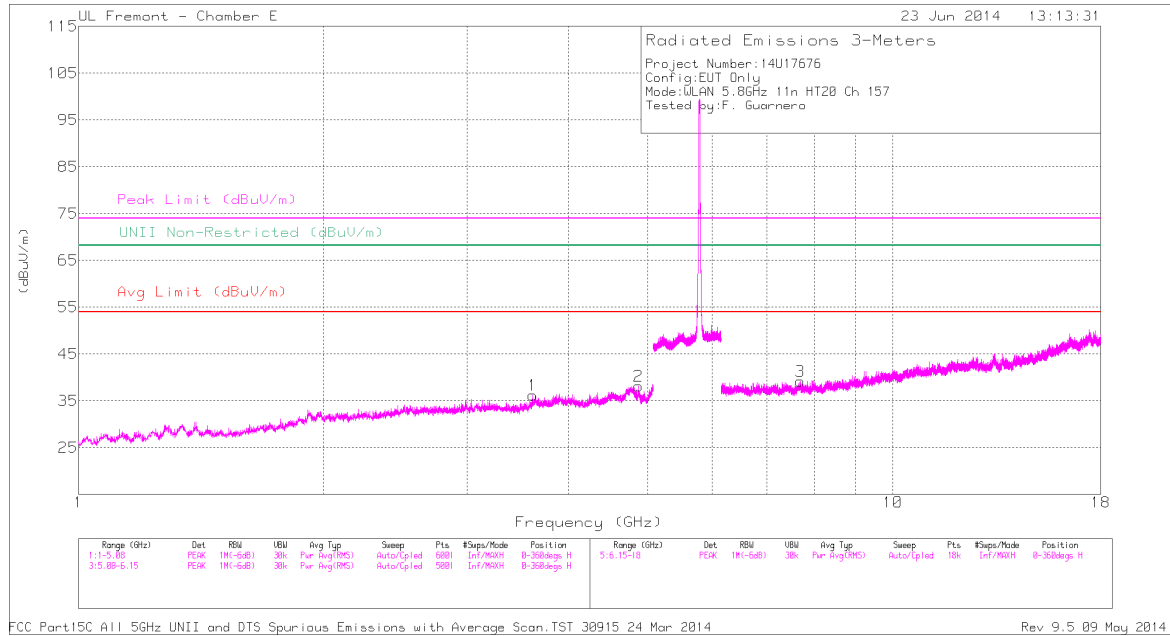
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.018	41.18	PK1	33.4	-31.5	43.08	-	-	74	-30.92	-	-	49	326	H
* 4.018	30.38	AD1	33.4	-31.5	32.28	54	-21.72	-	-	-	-	49	326	H
* 4.746	42.3	PK1	34.1	-30.6	45.8	-	-	74	-28.2	-	-	43	321	H
* 4.745	31.13	AD1	34.1	-30.6	34.63	54	-19.37	-	-	-	-	43	321	H
* 4.515	40.63	PK1	33.9	-30.1	44.43	-	-	74	-29.57	-	-	174	266	V
* 4.516	29.76	AD1	34	-30.1	33.66	54	-20.34	-	-	-	-	174	266	V
* 7.398	39.85	PK1	35.7	-27.4	48.15	-	-	74	-25.85	-	-	183	153	V
* 7.397	27.19	AD1	35.7	-27.3	35.59	54	-18.41	-	-	-	-	183	153	V
* 11.735	36.75	PK1	38.3	-24.4	50.65	-	-	74	-23.35	-	-	188	160	V
* 11.735	25.8	AD1	38.3	-24.4	39.7	54	-14.3	-	-	-	-	188	160	V
2.44	43.83	PK1	32.2	-33	43.03	-	-	-	-	68.2	-25.17	42	383	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

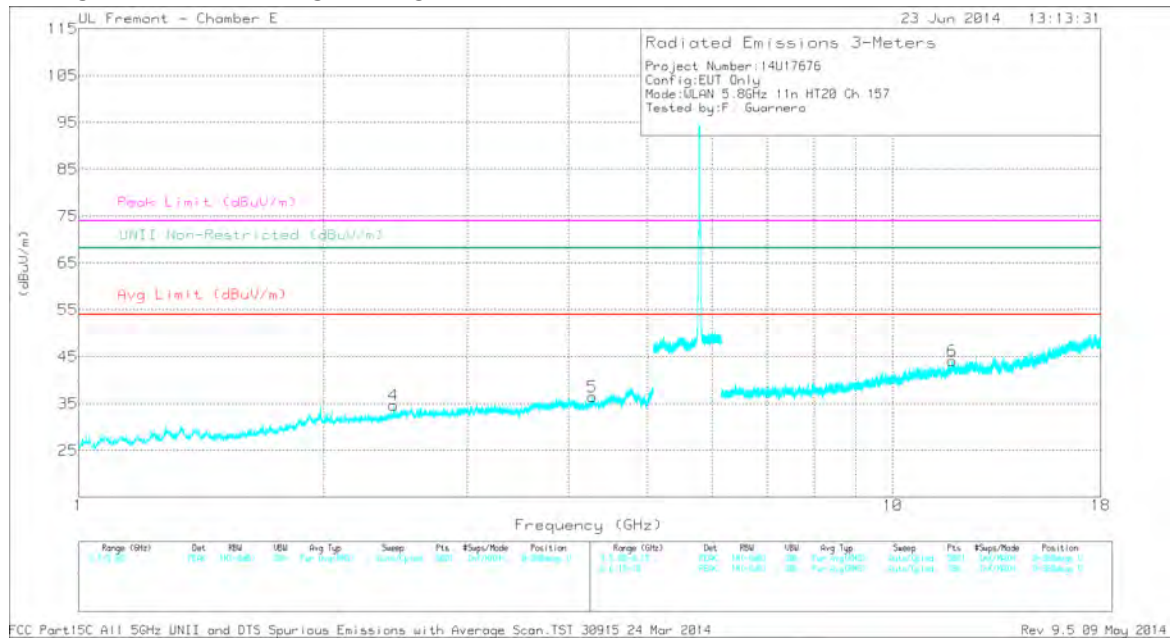
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



DATA

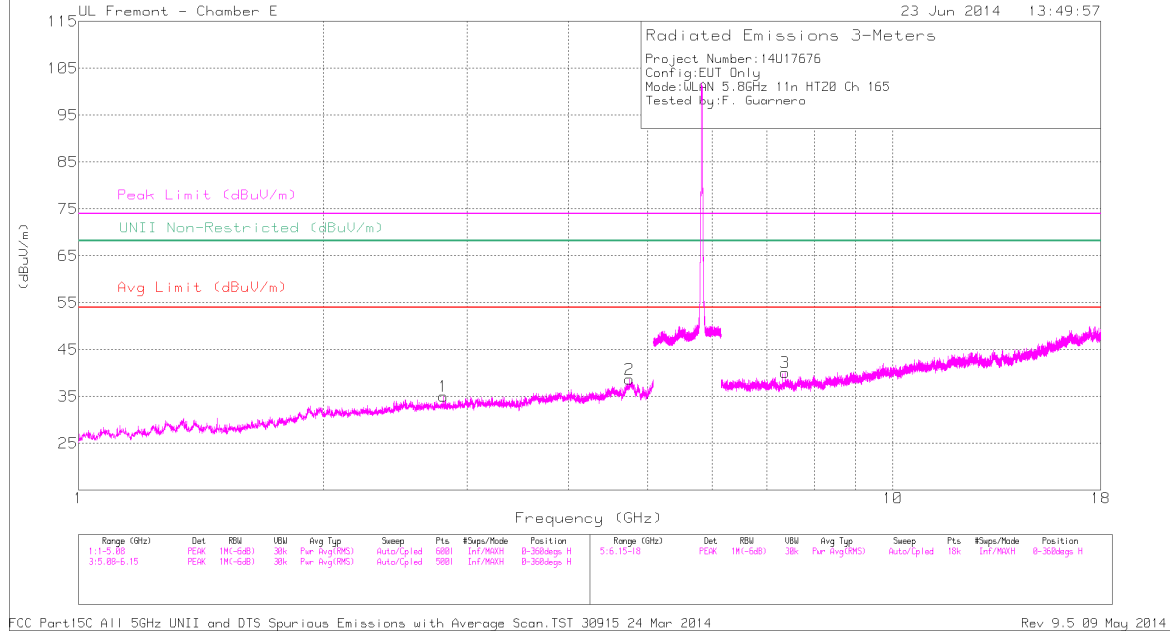
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.612	41.93	PK1	33.1	-31	44.03	-	-	74	-29.97	-	-	238	124	H
* 3.612	29.84	AD1	33.1	-31	31.94	54	-22.06	-	-	-	-	238	124	H
* 4.871	42.86	PK1	34.1	-30.1	46.86	-	-	74	-27.14	-	-	243	131	H
* 4.871	30.49	AD1	34.1	-30.1	34.49	54	-19.51	-	-	-	-	243	131	H
* 4.276	41.91	PK1	33.5	-30.4	45.01	-	-	74	-28.99	-	-	43	369	V
* 4.276	29.6	AD1	33.5	-30.4	32.7	54	-21.3	-	-	-	-	43	369	V
* 7.693	38.73	PK1	35.9	-27.2	47.43	-	-	74	-26.57	-	-	188	256	H
* 7.693	27.2	AD1	35.9	-27.2	35.9	54	-18.1	-	-	-	-	188	256	H
* 11.831	36.99	PK1	38.5	-23.2	52.29	-	-	74	-21.71	-	-	159	388	V
* 11.831	25.09	AD1	38.5	-23.3	40.29	54	-13.71	-	-	-	-	159	388	V
2.438	44.29	PK1	32.2	-33.1	43.39	-	-	-	-	68.2	-24.81	38	353	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

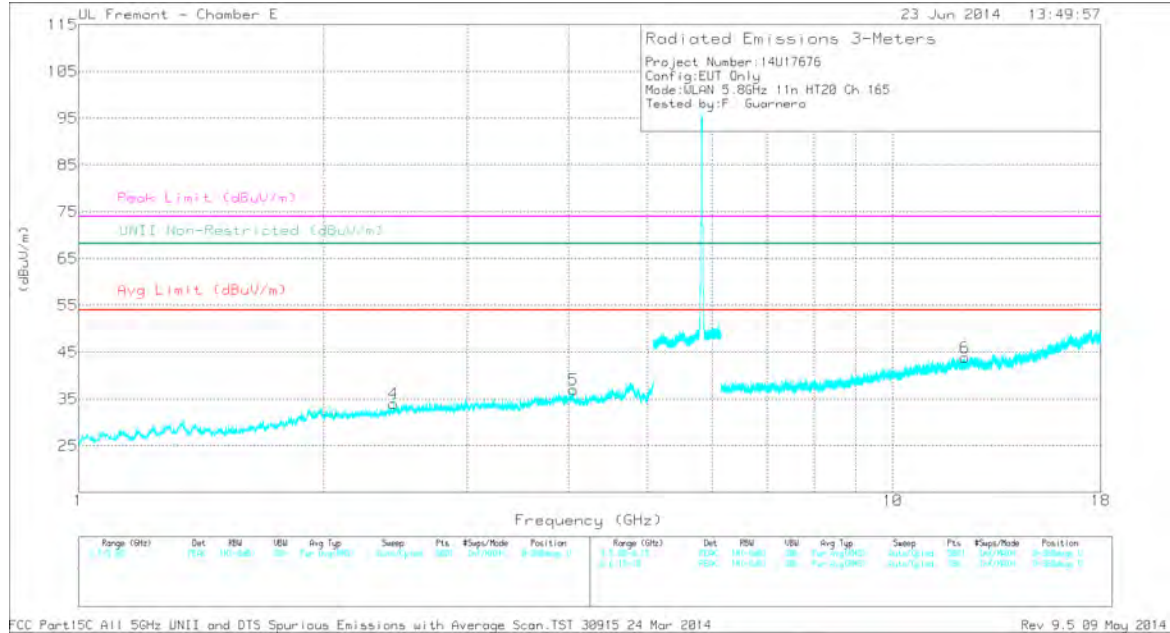
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.804	42.11	PK1	32.4	-32.1	42.41	-	-	74	-31.59	-	-	280	227	H
* 2.805	30.24	AD1	32.4	-32.1	30.54	54	-23.46	-	-	-	-	280	227	H
* 4.744	42.3	PK1	34.1	-30.6	45.8	-	-	74	-28.2	-	-	271	221	H
* 4.745	31.07	AD1	34.1	-30.6	34.57	54	-19.43	-	-	-	-	271	221	H
* 4.05	41.47	PK1	33.5	-31.4	43.57	-	-	74	-30.43	-	-	140	153	V
* 4.05	30.52	AD1	33.5	-31.4	32.62	54	-21.38	-	-	-	-	140	154	V
* 7.374	38.94	PK1	35.7	-27	47.64	-	-	74	-26.36	-	-	26	389	H
* 7.375	27.1	AD1	35.7	-27	35.8	54	-18.2	-	-	-	-	26	389	H
* 12.269	36.95	PK1	38.9	-24.8	51.05	-	-	74	-22.95	-	-	180	316	V
* 12.27	25.81	AD1	38.9	-24.8	39.91	54	-14.09	-	-	-	-	180	316	V
2.474	42.12	PK1	32.3	-32.6	41.82	-	-	-	-	68.2	-26.38	150	159	V

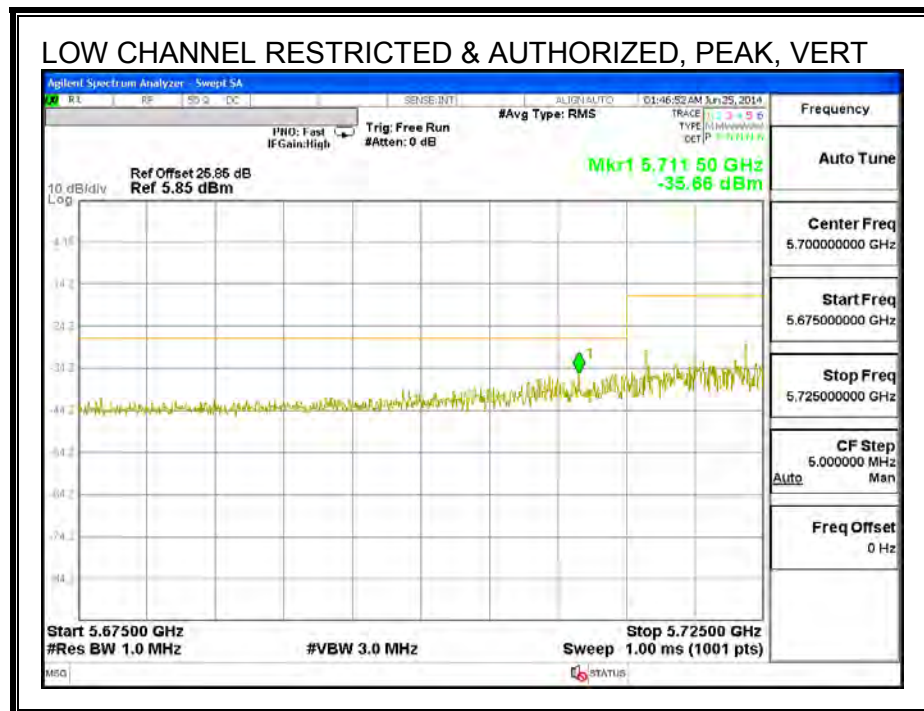
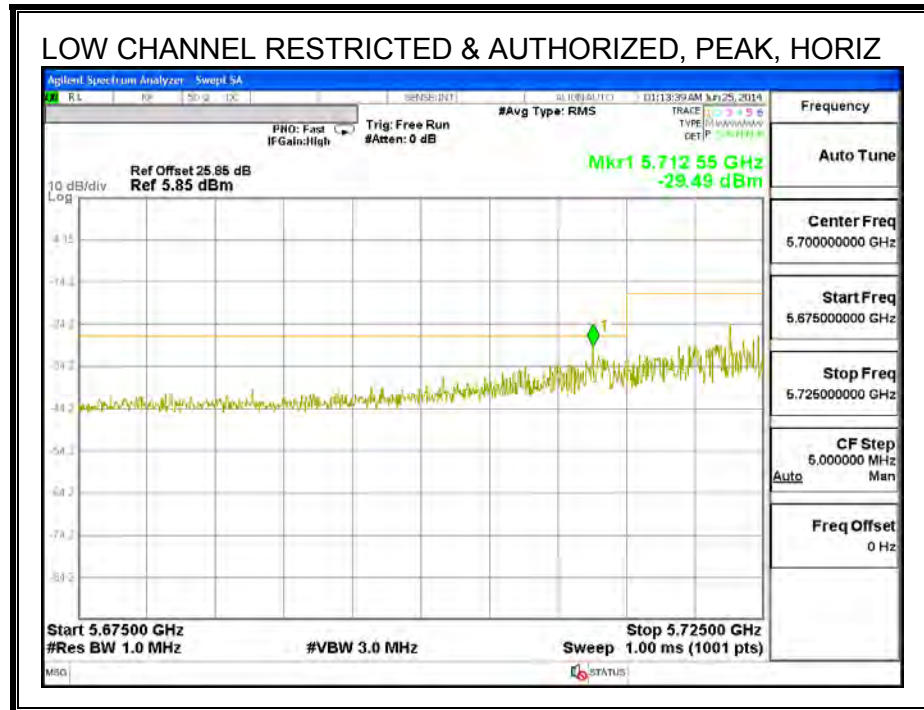
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

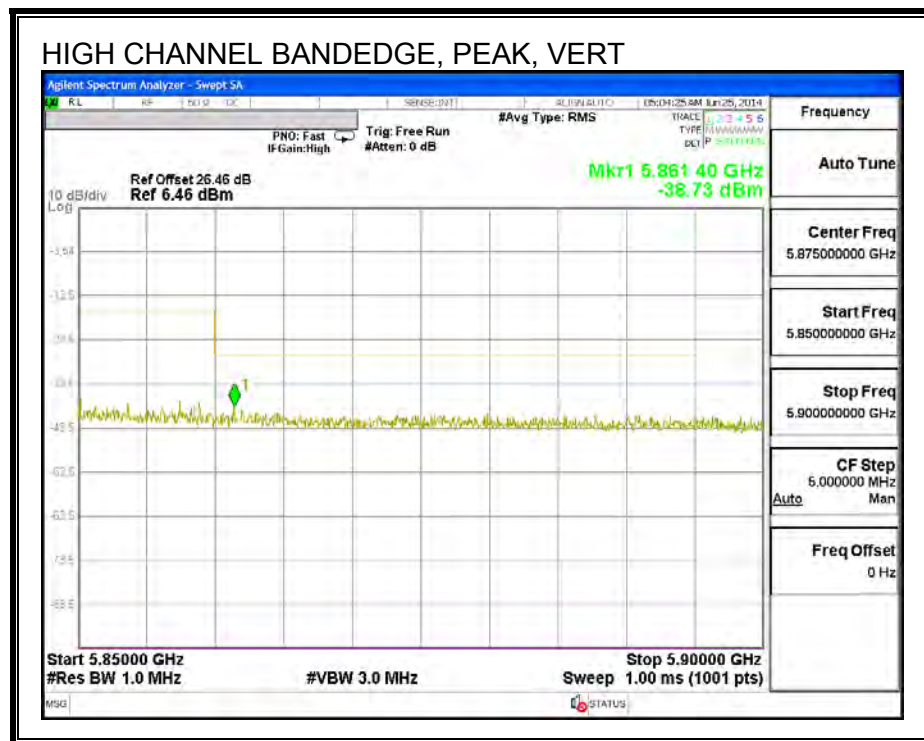
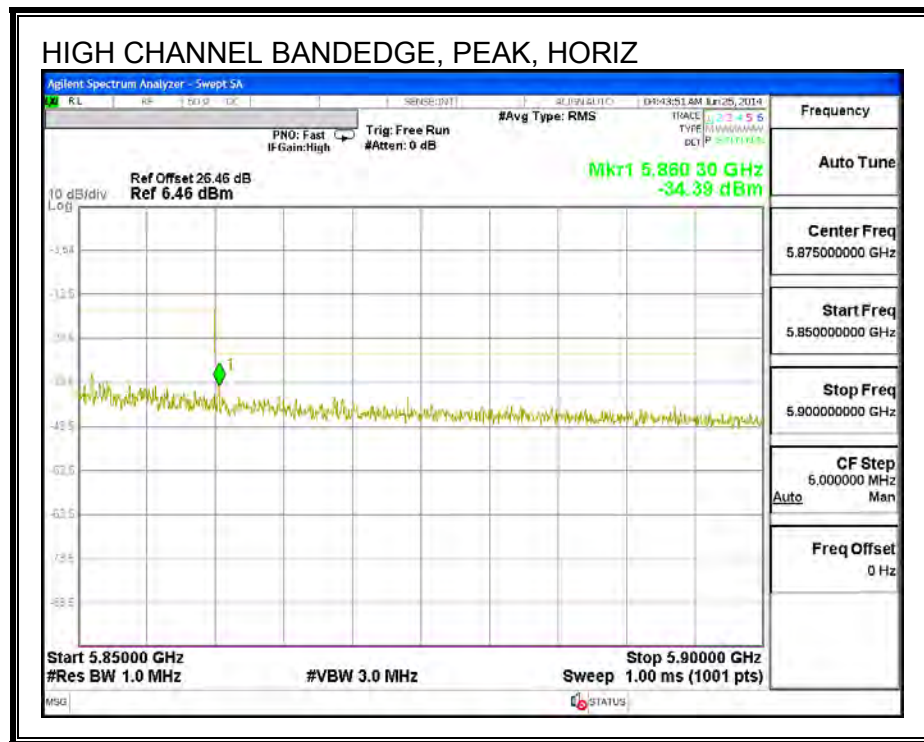
AD1 - KDB789033 Method: AD Primary Power Average

10.2.16. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.8 GHz BAND

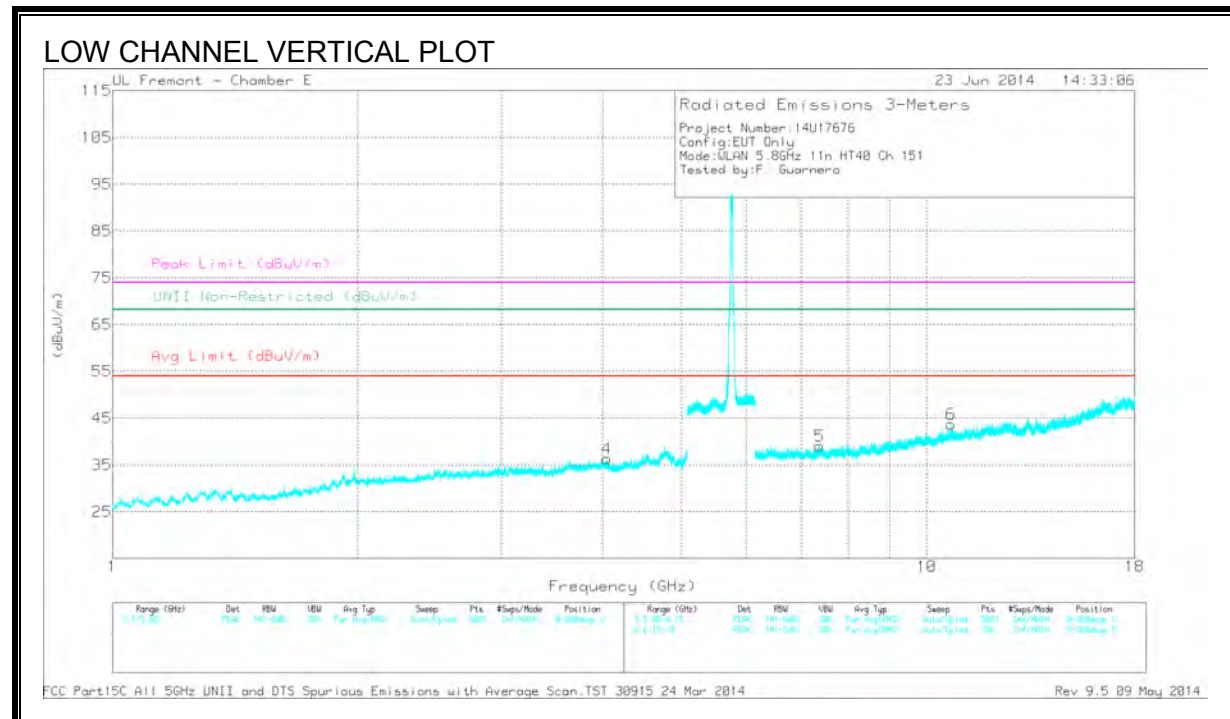
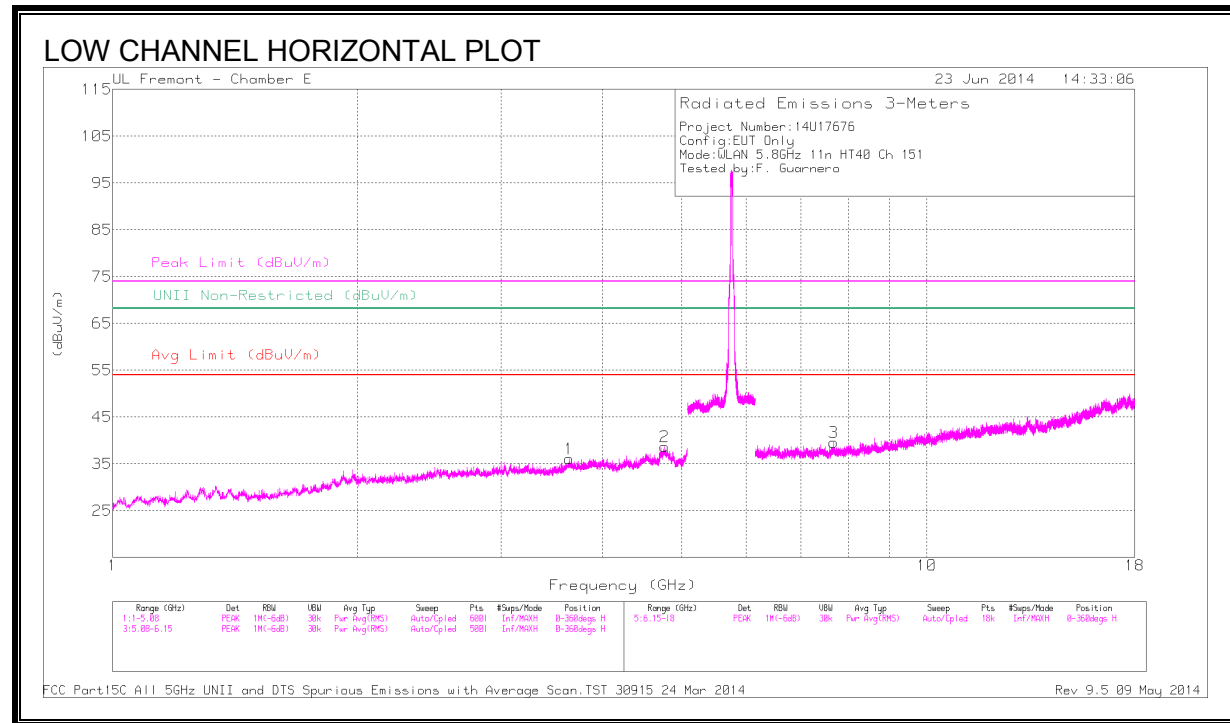
RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)



AUTHORIZED BANDEDGE (HIGH CHANNEL)



HARMONICS AND SPURIOUS EMISSIONS



DATA

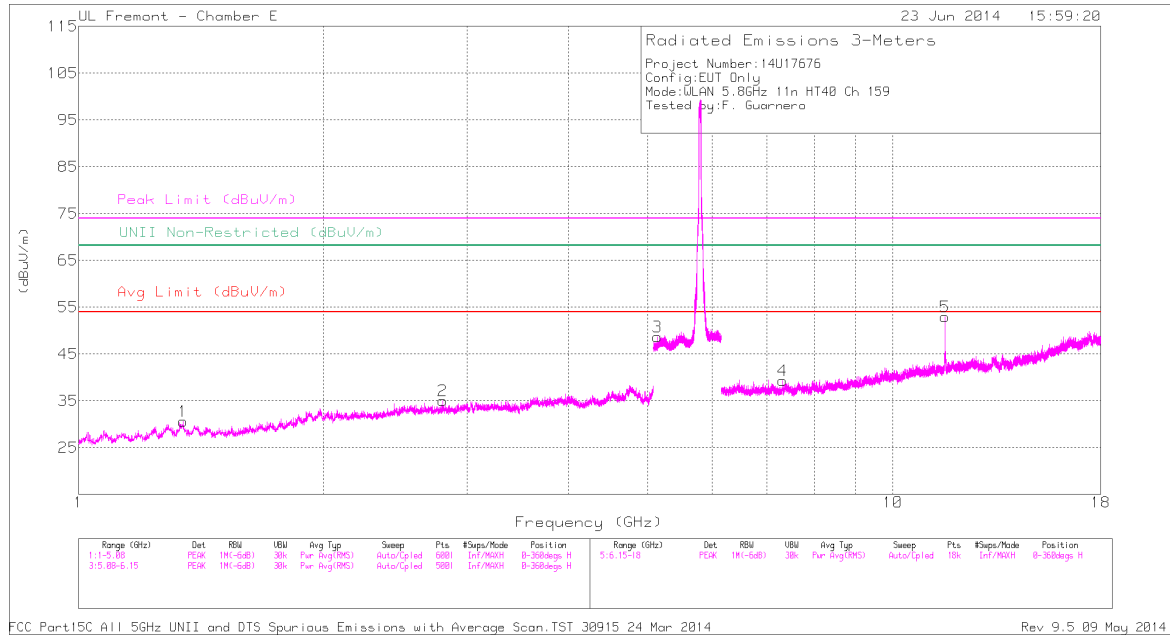
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dBm)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.637	41.58	PK1	33.2	-30.8	43.98	-	-	74	-30.02	-	-	355	104	H
* 3.637	29.97	AD1	33.2	-30.8	32.37	54	-21.63	-	-	-	-	355	104	H
* 4.762	43.3	PK1	34.1	-30.6	46.8	-	-	74	-27.2	-	-	168	273	H
* 4.762	31.48	AD1	34.1	-30.6	34.98	54	-19.02	-	-	-	-	168	273	H
* 4.047	42.17	PK1	33.5	-31.4	44.27	-	-	74	-29.73	-	-	312	169	V
* 4.047	30.4	AD1	33.5	-31.4	32.5	54	-21.5	-	-	-	-	312	169	V
* 7.677	38.52	PK1	35.8	-27.2	47.12	-	-	74	-26.88	-	-	326	378	H
* 7.677	26.99	AD1	35.8	-27.2	35.59	54	-18.41	-	-	-	-	326	378	H
* 7.389	39.23	PK1	35.7	-27.2	47.73	-	-	74	-26.27	-	-	190	133	V
* 7.389	27.18	AD1	35.7	-27.2	35.68	54	-18.32	-	-	-	-	190	133	V
* 10.704	37.3	PK1	37.9	-23.8	51.4	-	-	74	-22.6	-	-	182	127	V
* 10.704	25.02	AD1	37.9	-23.8	39.12	54	-14.88	-	-	-	-	182	127	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

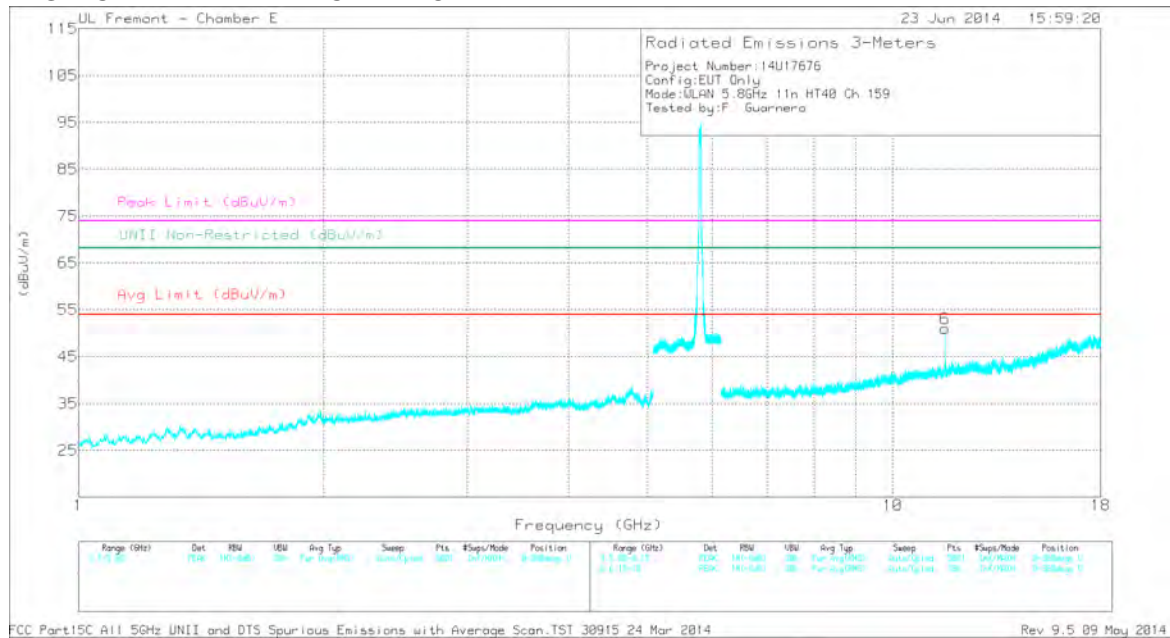
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.344	43.5	PK1	28.9	-33.9	38.5	-	-	74	-35.5	-	-	212	282	H
	* 1.344	31.81	AD1	28.9	-33.9	26.81	54	-27.19	-	-	-	-	212	282	H
2	* 2.803	42.08	PK1	32.4	-32.1	42.38	-	-	74	-31.62	-	-	61	299	H
	* 2.802	30.28	AD1	32.4	-32.1	30.58	54	-23.42	-	-	-	-	61	299	H
3	* 5.142	41.38	PK1	34.2	-21.6	53.98	-	-	74	-20.02	-	-	216	268	H
	* 5.141	29.43	AD1	34.2	-21.6	42.03	54	-11.97	-	-	-	-	216	268	H
4	* 7.328	39.32	PK1	35.7	-27.7	47.32	-	-	74	-26.68	-	-	293	243	H
	* 7.327	27.38	AD1	35.7	-27.7	35.38	54	-18.62	-	-	-	-	293	243	H
5	* 11.59	44.13	PK1	38.2	-24.8	57.53	-	-	74	-16.47	-	-	62	229	H
	* 11.59	33.19	AD1	38.2	-24.8	46.59	54	-7.41	-	-	-	-	62	229	H
6	* 11.59	44.24	PK1	38.2	-24.8	57.64	-	-	74	-16.36	-	-	76	105	V
	* 11.59	33.32	AD1	38.2	-24.8	46.72	54	-7.28	-	-	-	-	76	105	V

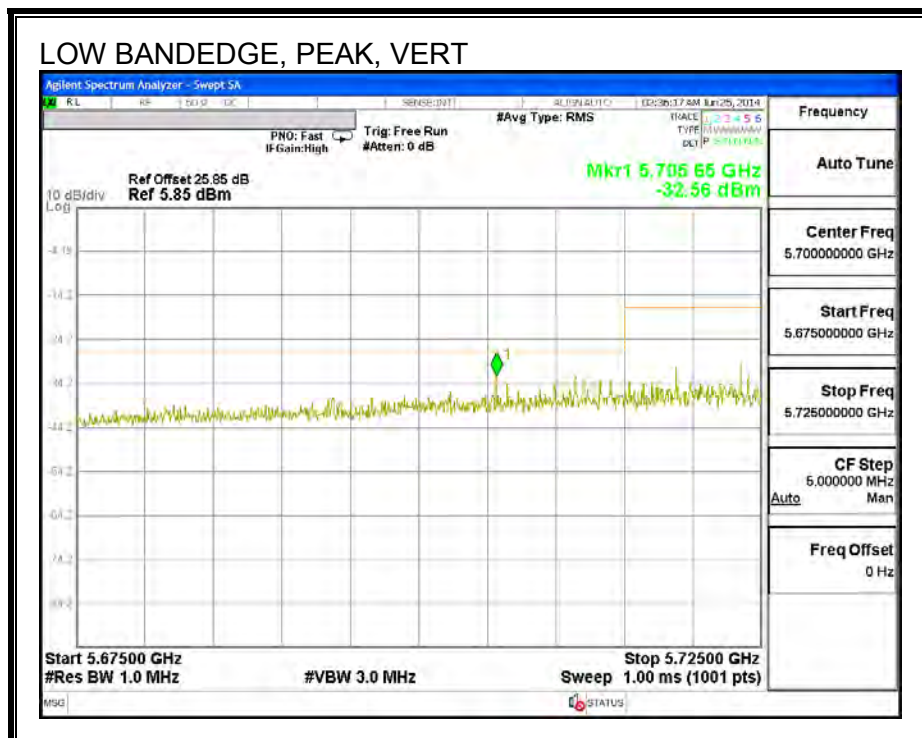
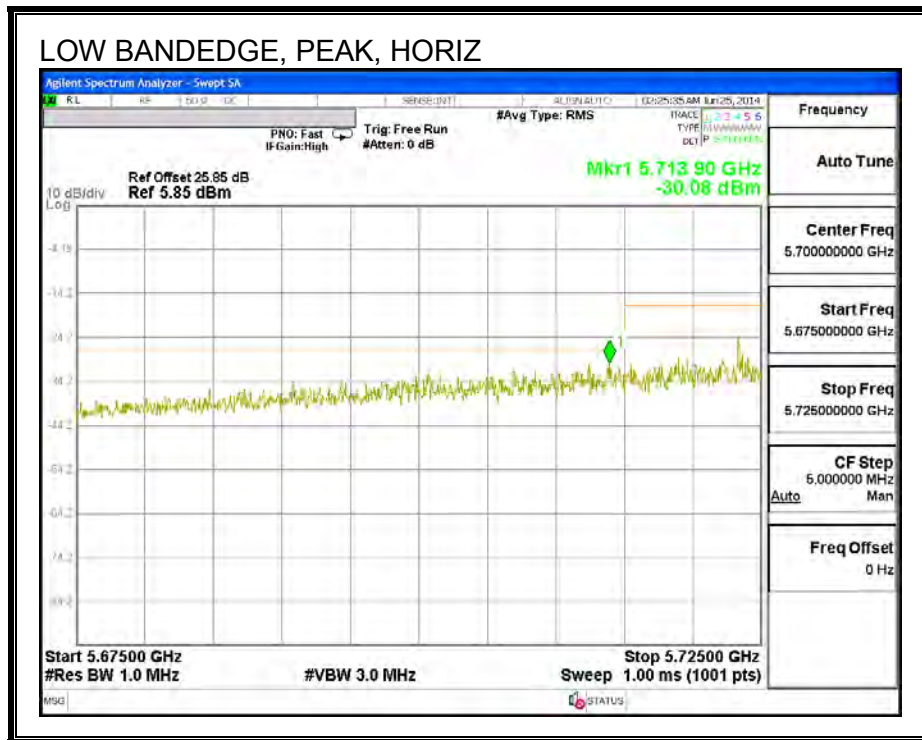
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

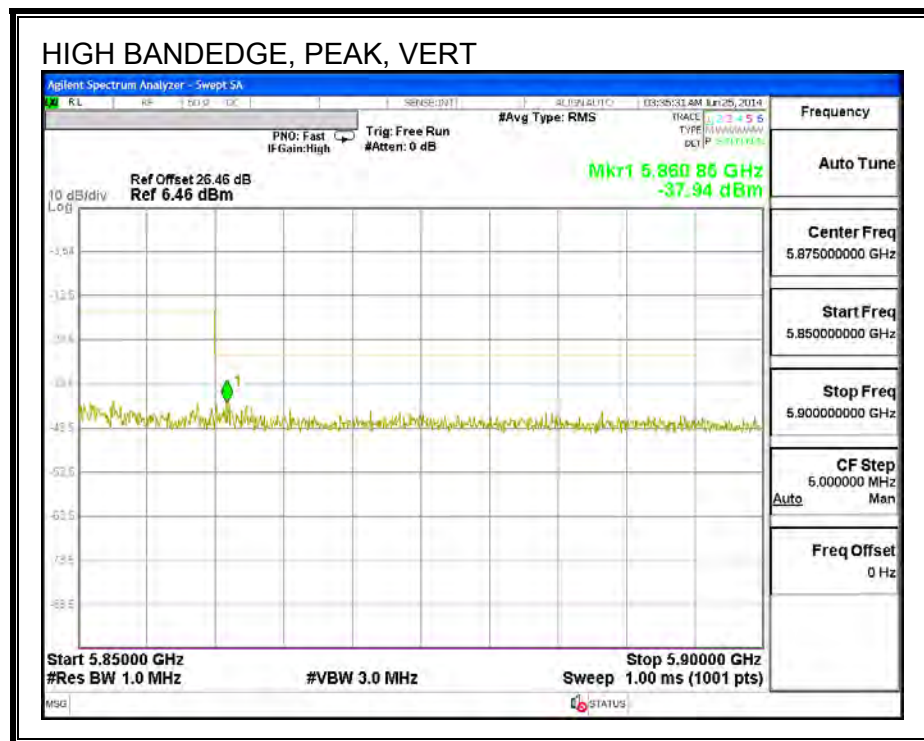
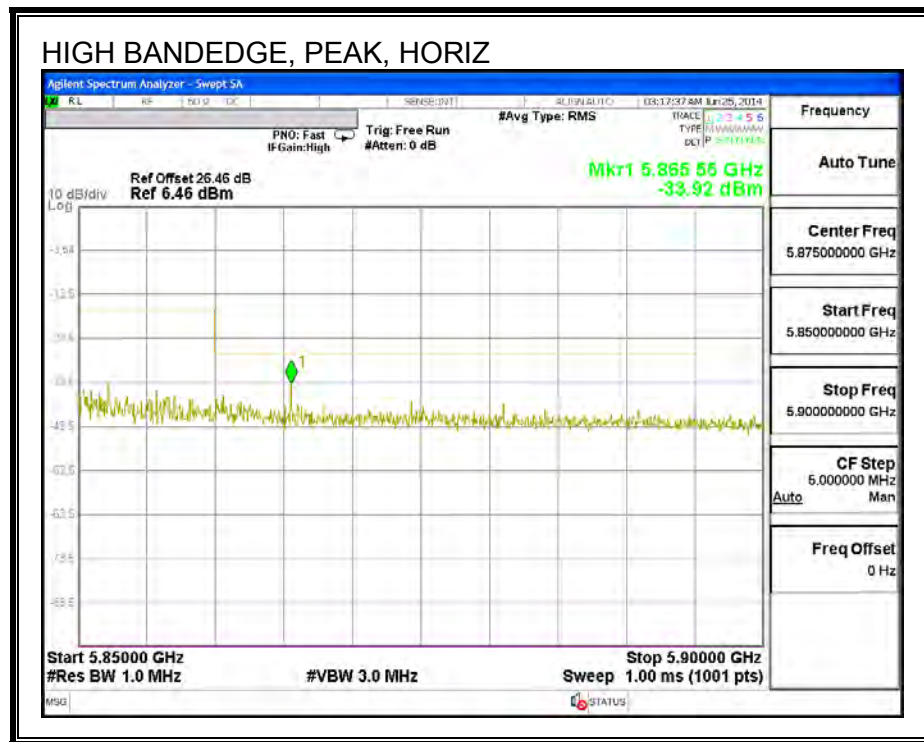
AD1 - KDB789033 Method: AD Primary Power Average

10.2.17. TX ABOVE 1G 802.11ac 80MHz MODE IN THE 5.8 GHz BAND

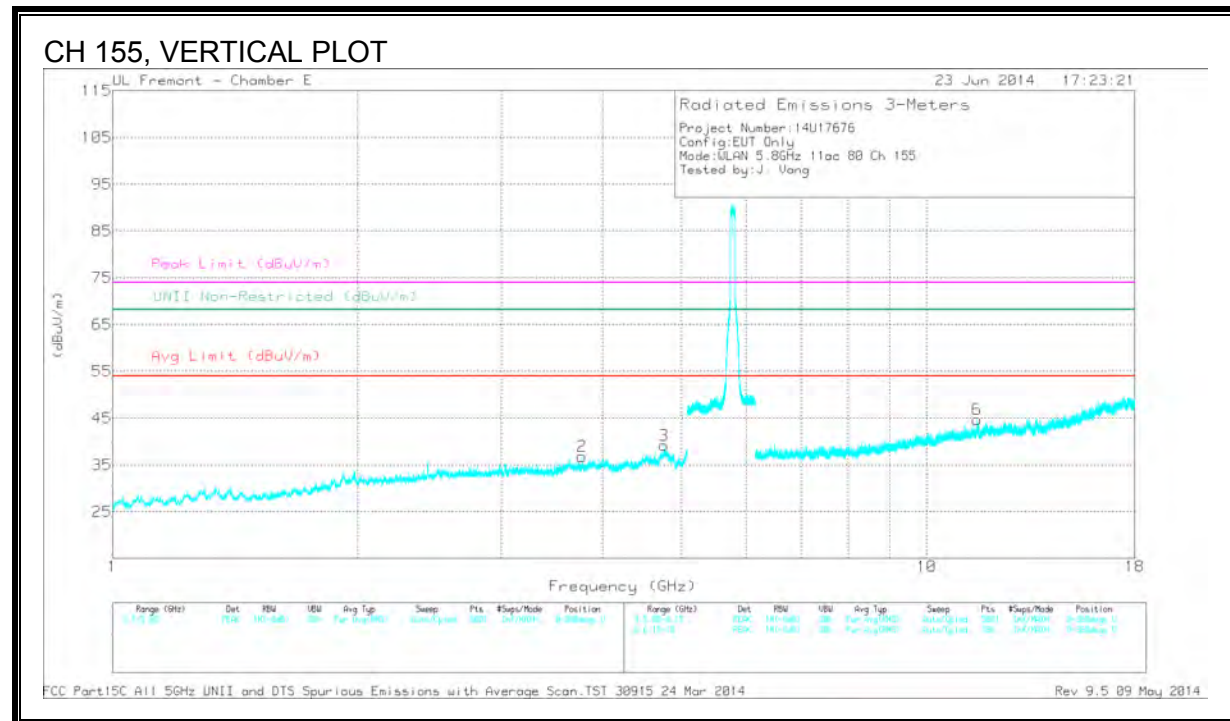
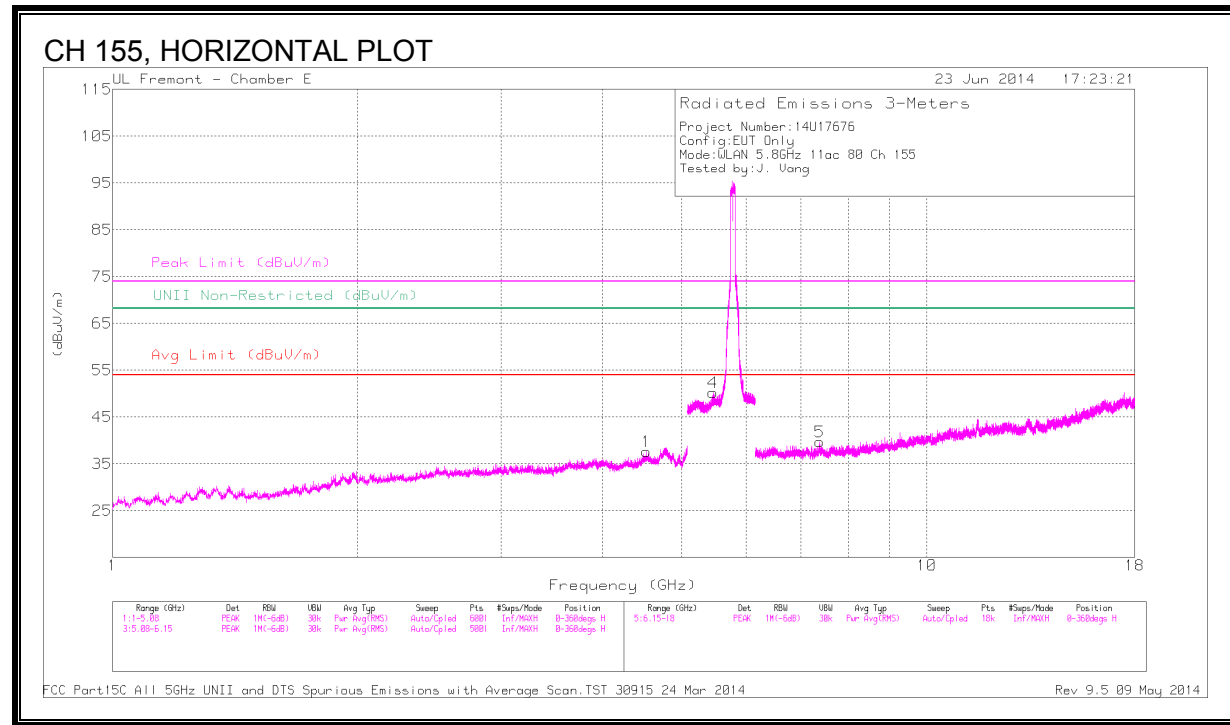
RESTRICTED & AUTHORIZED BANDEDGE



AUTHORIZED BANDEDGE (HIGH)



HARMONICS AND SPURIOUS EMISSIONS



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.526	36.75	PK1	34	-30.3	0	40.45	-	-	74	-33.55	-	-	316	304	H
	* 4.526	30.14	AD1	34	-30.3	.2	34.04	54	-19.96	-	-	-	-	316	304	H
2	* 3.772	36.92	PK1	33.4	-31.8	0	38.52	-	-	74	-35.48	-	-	105	252	V
	* 3.772	30.48	AD1	33.4	-31.8	.2	32.28	54	-21.72	-	-	-	-	105	252	V
5	* 7.378	33.7	PK1	35.7	-27	0	42.4	-	-	74	-31.6	-	-	47	224	H
	* 7.378	27.19	AD1	35.7	-27	.2	36.09	54	-17.91	-	-	-	-	47	224	H
6	* 11.535	34.82	PK1	38.2	-24.3	0	48.72	-	-	74	-25.28	-	-	81	109	V
	* 11.535	28.2	AD1	38.2	-24.3	.2	42.3	54	-11.7	-	-	-	-	81	109	V
4	5.462	38.86	PK1	34.6	-20.8	0	52.66	-	-	-	-	68.2	-15.54	184	125	H

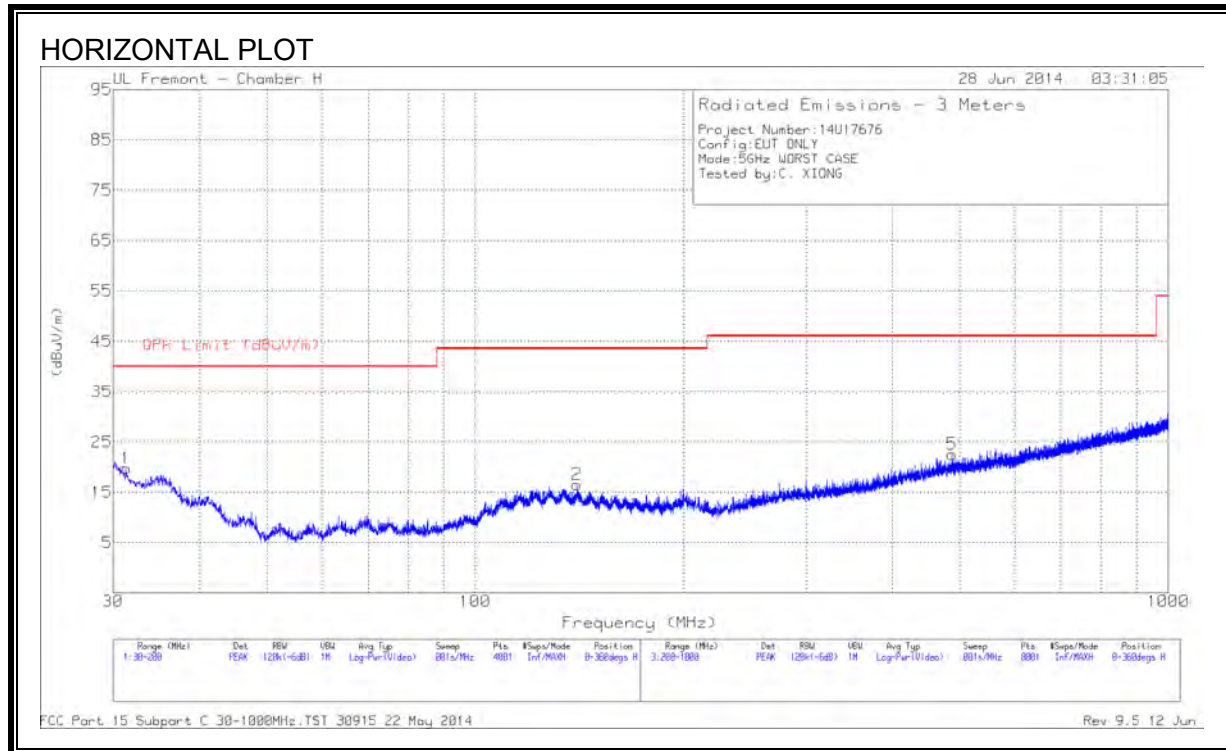
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

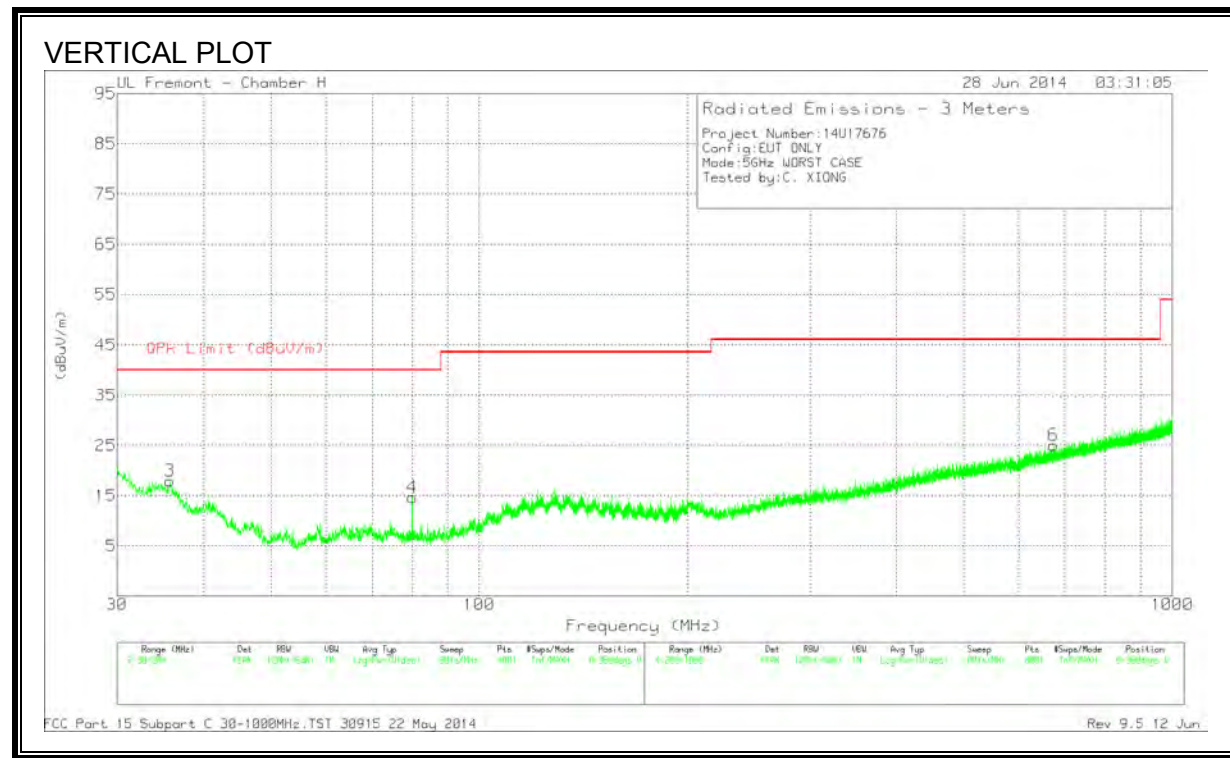
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

10.3. WORST-CASE BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)





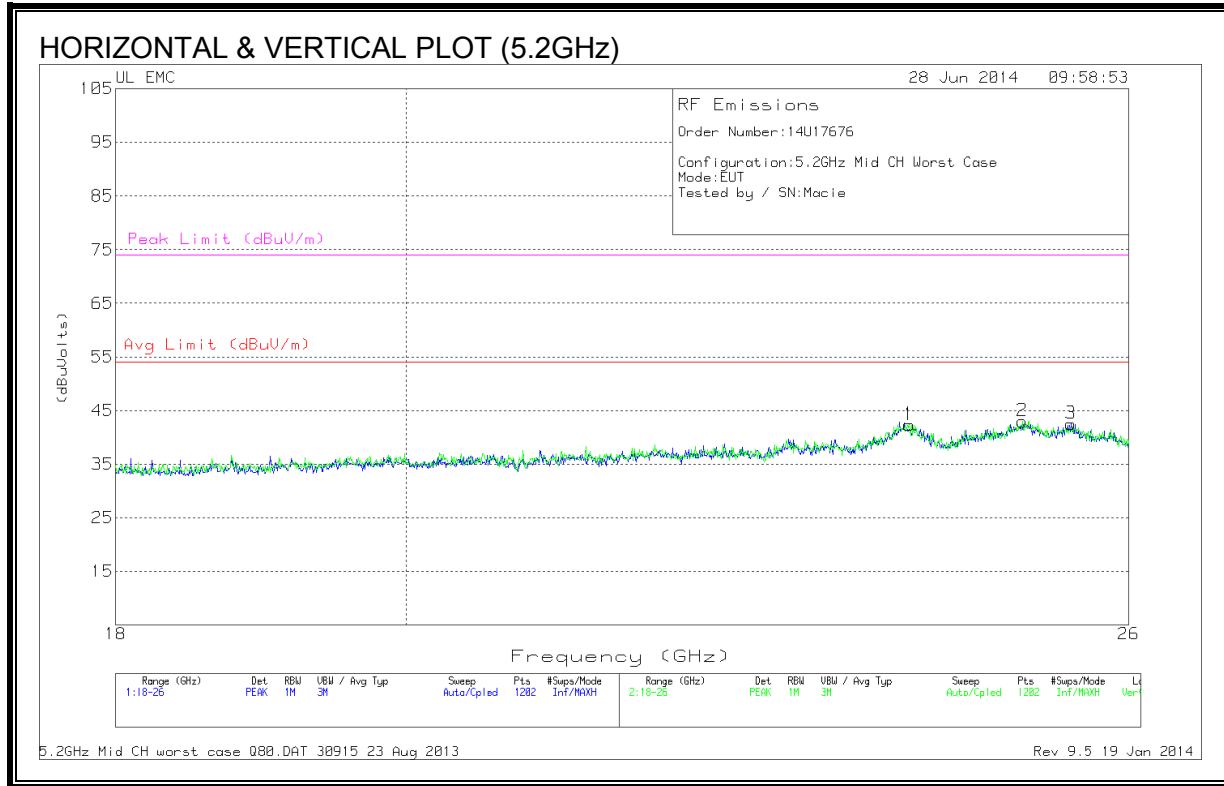
HORIZONTAL & VERTICAL DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Hybrid	Amp/Cbl (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	31.3175	27.59	PK	23.1	-30.9	0	19.79	40	-20.21	0-360	401	H
3	35.78	28.76	PK	20.1	-30.9	0	17.96	40	-22.04	0-360	100	V
4	80.0225	34.6	PK	10.4	-30.3	0	14.7	40	-25.3	0-360	100	V
2	140.0325	29.86	PK	16.4	-29.7	0	16.56	43.52	-26.96	0-360	401	H
5	487.7	29.56	PK	20.6	-27.6	0	22.56	46.02	-23.46	0-360	401	H
6	673.8	29.07	PK	22.8	-26.8	0	25.07	46.02	-20.95	0-360	201	V

PK - Peak detector

10.4. WORST-CASE 18 to 26 GHz

SPURIOUS EMISSIONS 18000 TO 26000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)



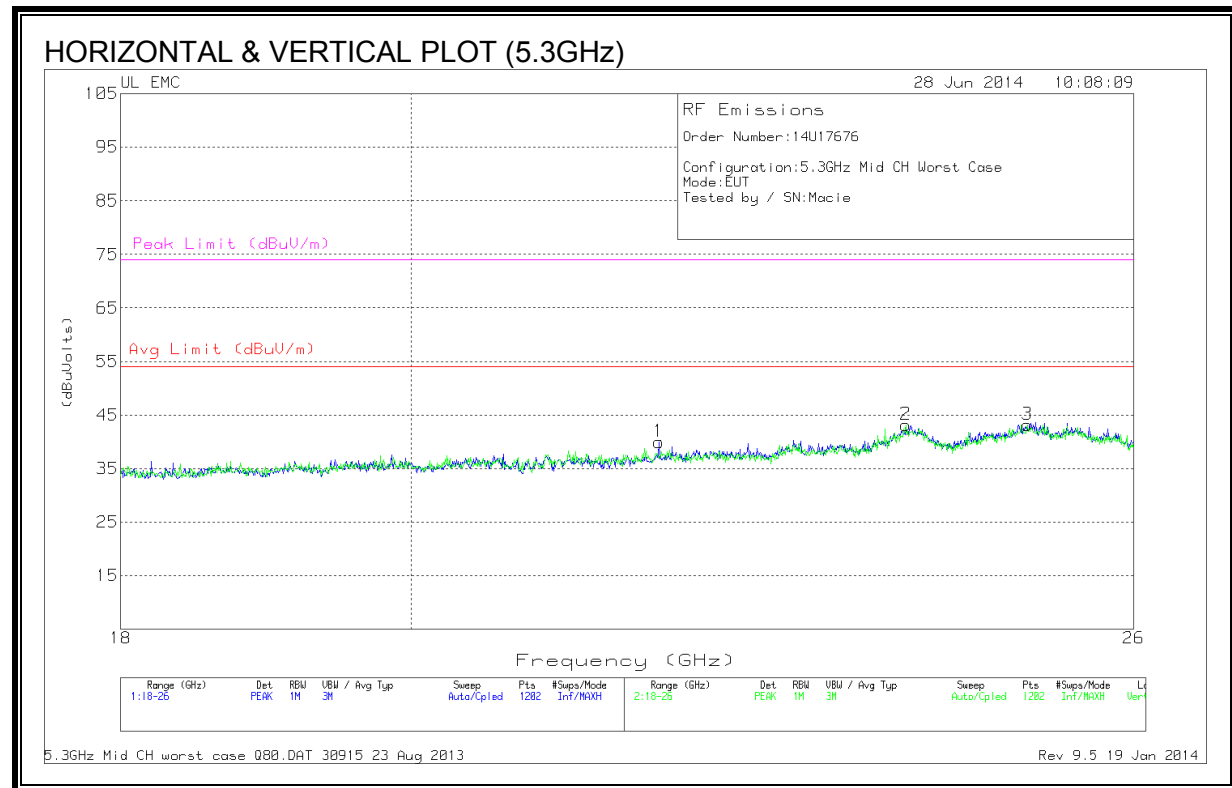
HORIZONTAL & VERTICAL DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T89 (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	24.008	41.03	PK	33.6	-22.8	-9.5	42.3	54	-11.7	74	-31.7
2	25.014	41.5	PK	34	-23	-9.5	43	54	-11	74	-31
3	25.46	40.4	PK	34.1	-22.5	-9.5	42.5	54	-11.5	74	-31.5

PK - Peak detector

1

SPURIOUS EMISSIONS 18000 TO 26000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)

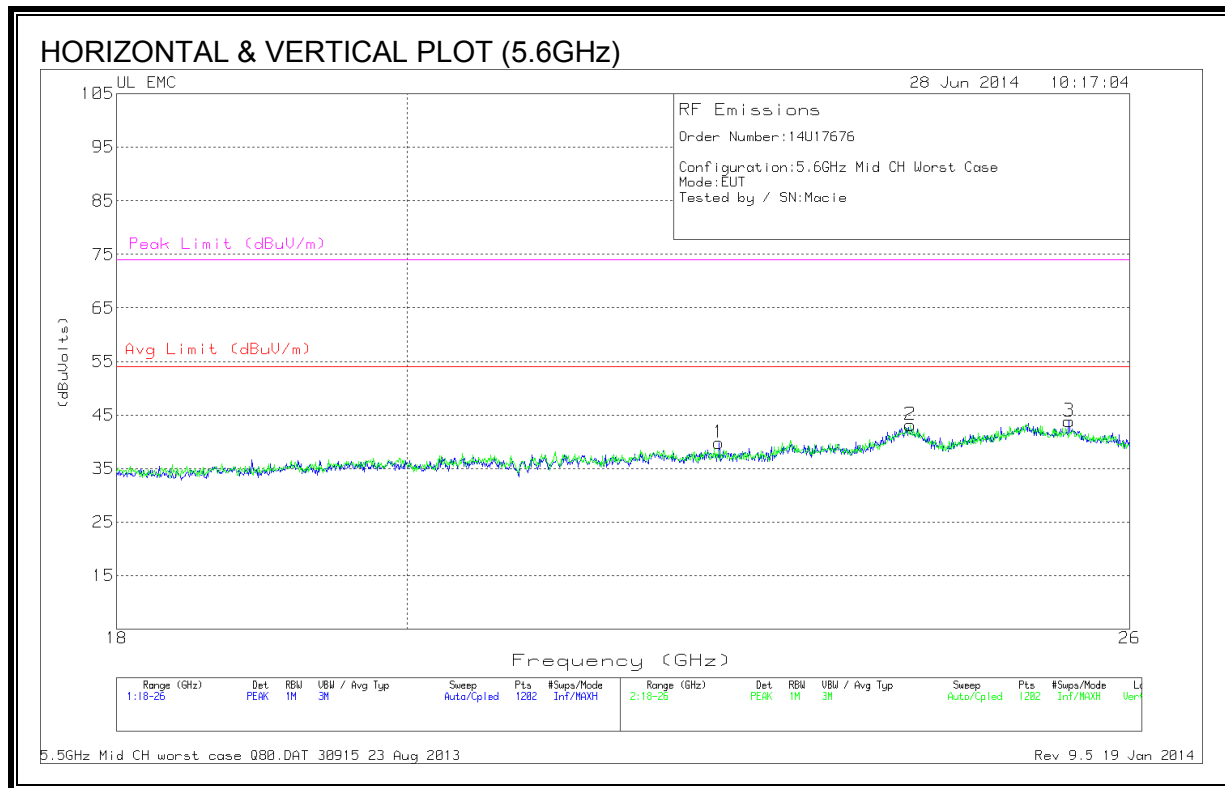


HORIZONTAL & VERTICAL DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T89 (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	21.883	39.9	PK	33.3	-23.7	-9.5	40	54	-14	74	-34
2	23.935	41.87	PK	33.6	-22.8	-9.5	43.17	54	-10.83	74	-30.83
3	25.014	41.67	PK	34	-23	-9.5	43.17	54	-10.83	74	-30.83

PK - Peak detector

SPURIOUS EMISSIONS 18000 TO 26000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)

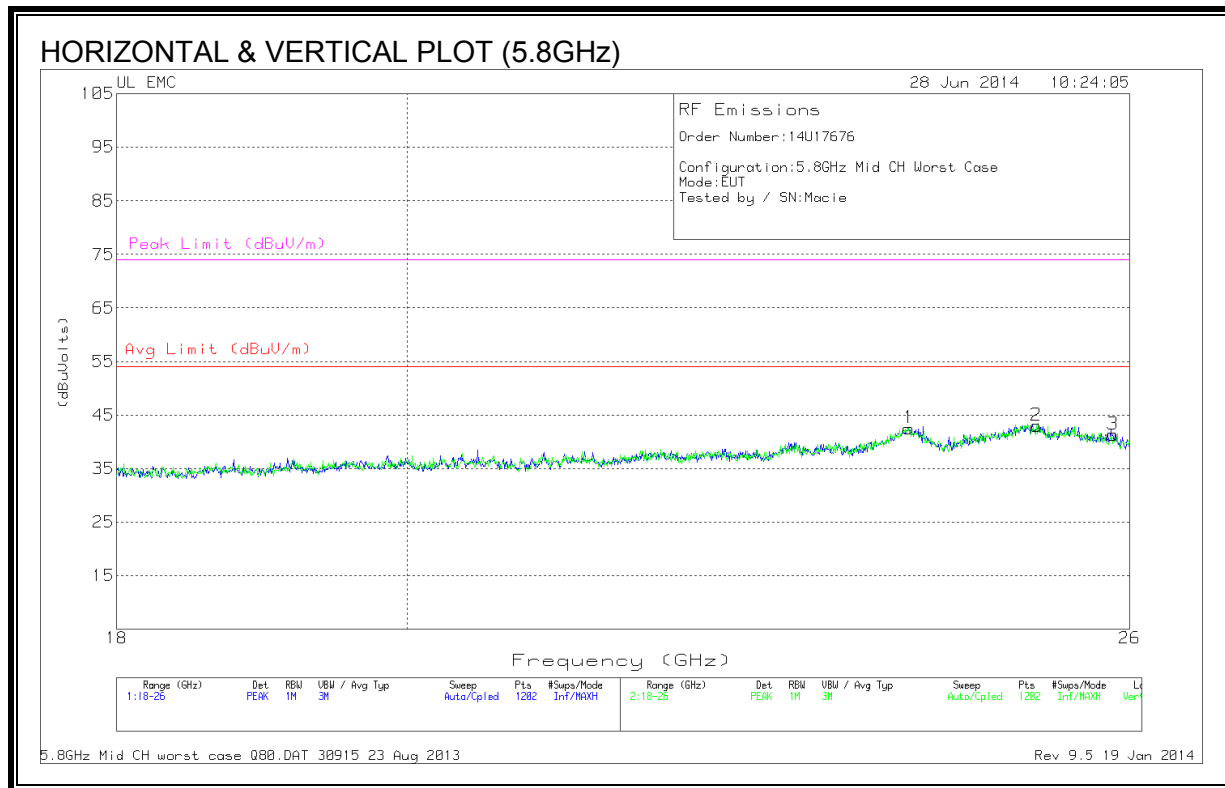


HORIZONTAL & VERTICAL DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T89 (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	22.396	39.43	PK	33.3	-23.4	-9.5	39.83	54	-14.16	74	-34.17
3	25.434	42.33	PK	34.1	-23.1	-9.5	43.83	54	-10.16	74	-30.17
2	24.008	41.87	PK	33.6	-22.8	-9.5	43.17	54	-10.83	74	-30.83

PK - Peak detector

SPURIOUS EMISSIONS 18000 TO 26000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)



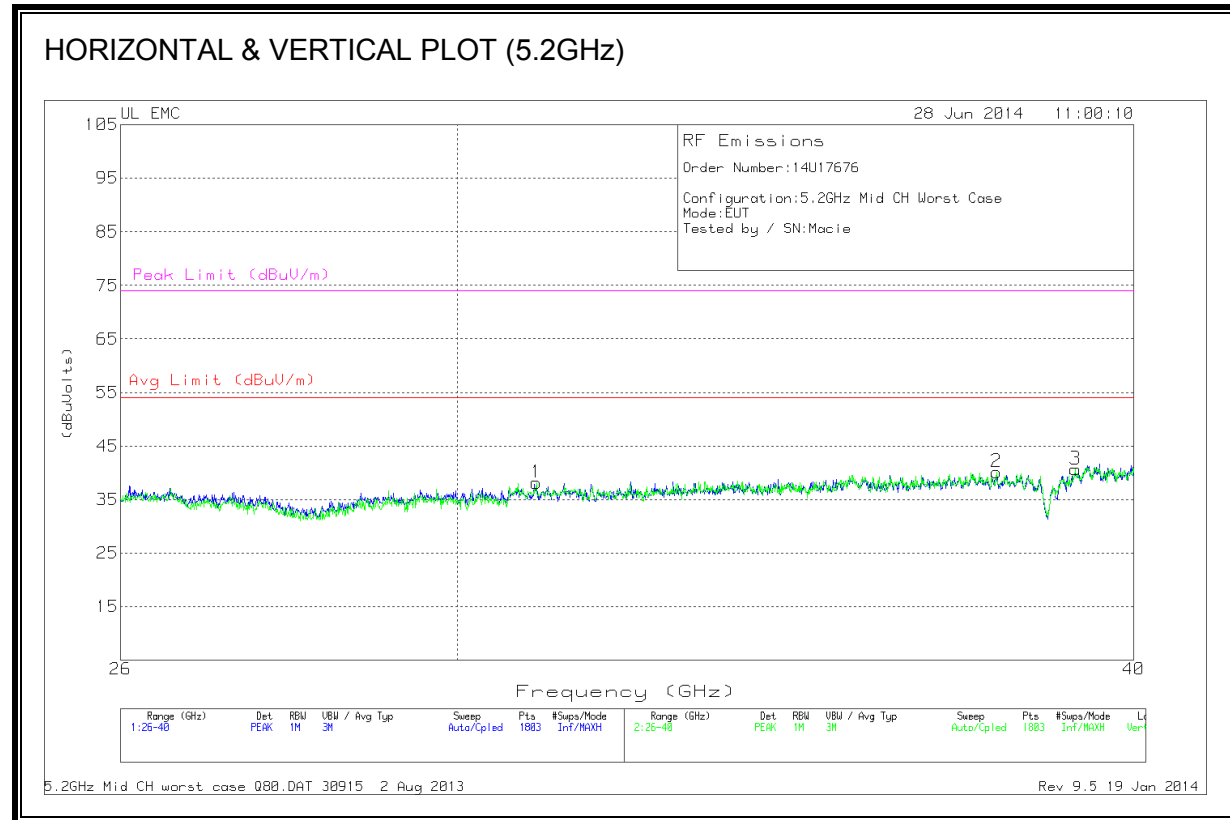
HORIZONTAL & VERTICAL DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T89 (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
3	25.84	39.43	PK	34.2	-22.8	-9.5	41.3	54	-12.67	74	-32.67
1	23.995	41.1	PK	33.6	-22.7	-9.5	42.5	54	-11.5	74	-31.5
2	25.134	41.5	PK	33.9	-22.9	-9.5	43	54	-11	74	-31

PK - Peak detector

10.5. WORST-CASE 26 to 40 GHz

SPURIOUS EMISSIONS 26 TO 40 GHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)

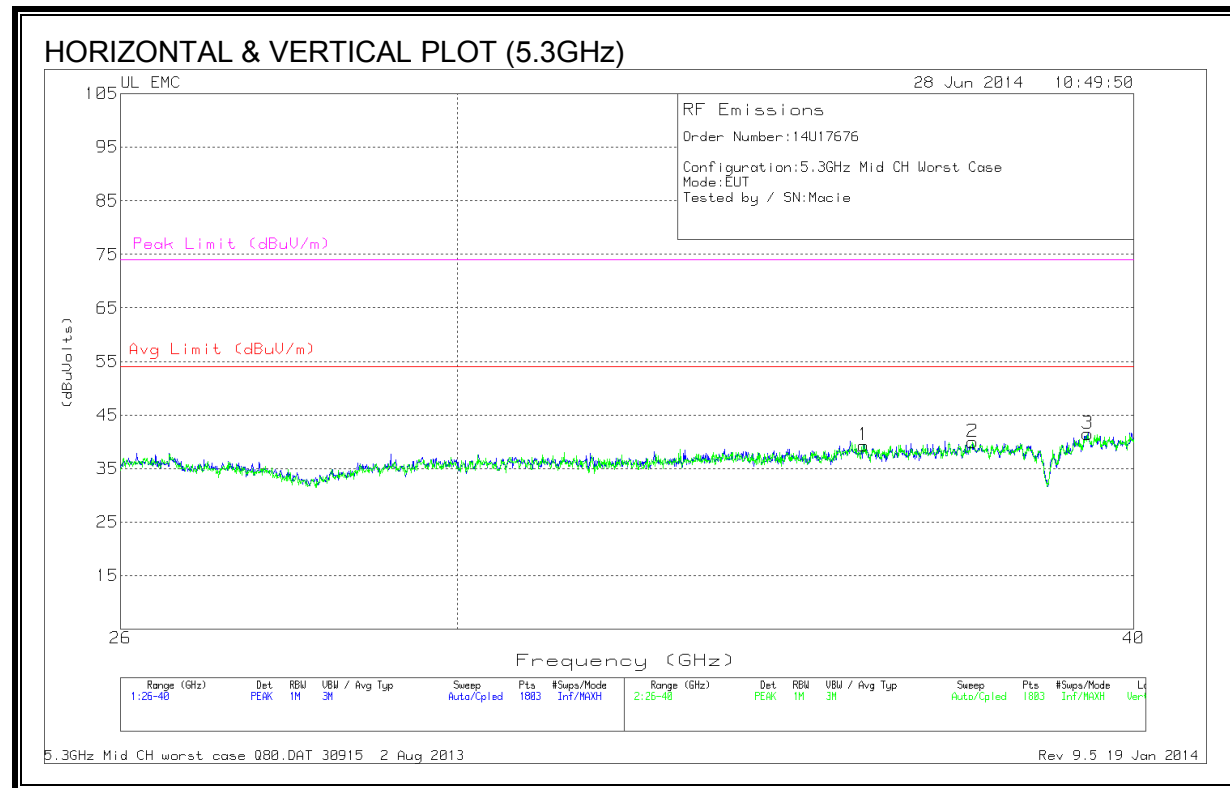


HORIZONTAL & VERTICAL DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	T90 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	31.027	47.47	PK	35.9	-35.7	-9.5	38.17	54	-15.83	74	-35.83
2	37.731	49.87	PK	37	-37.2	-9.5	40.17	54	-13.83	74	-33.83
3	39.021	49.17	PK	37.3	-36.3	-9.5	40.67	54	-13.33	74	-33.33

PK - Peak detector

SPURIOUS EMISSIONS 26 TO 40 GHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)

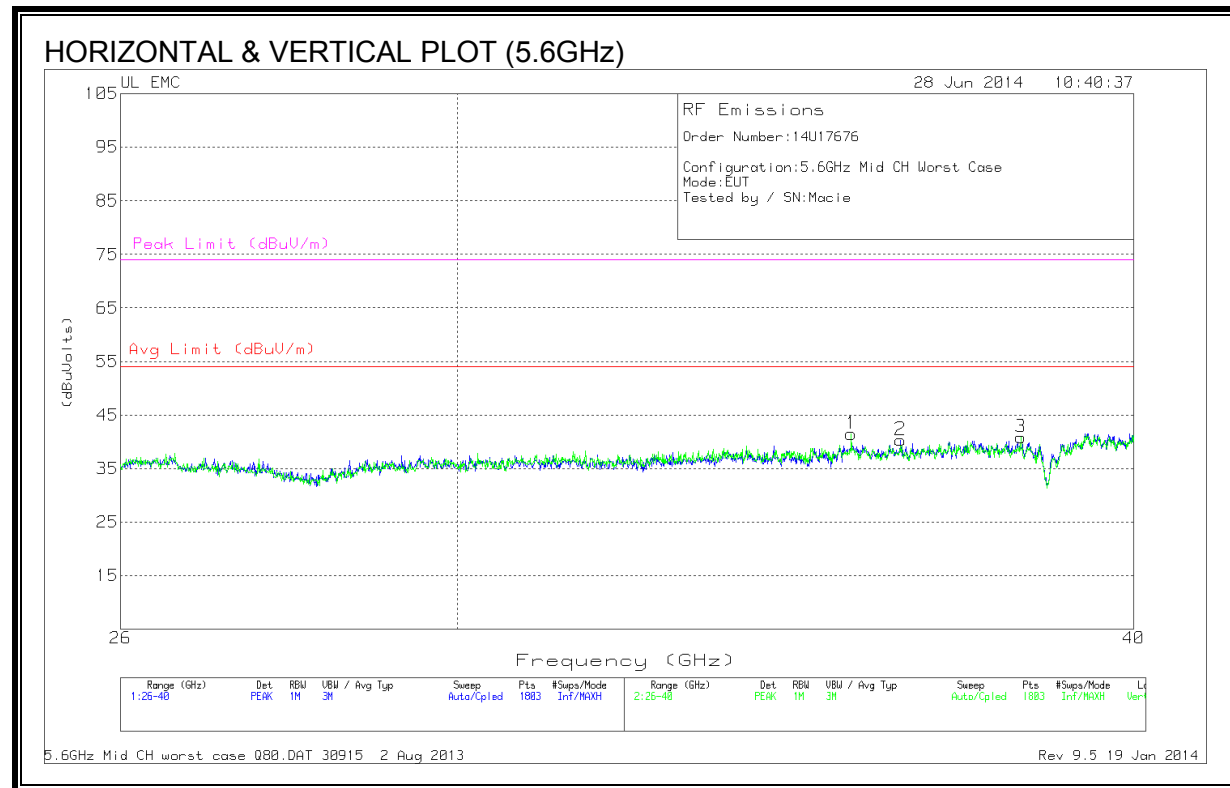


HORIZONTAL & VERTICAL DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	T90 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	35.657	48.73	PK	37.5	-37.4	-9.5	39.33	54	-14.67	74	-34.67
2	37.351	50	PK	37.3	-37.8	-9.5	40	54	-14	74	-34
3	39.223	48.5	PK	38.5	-36	-9.5	41.5	54	-12.5	74	-32.5

PK - Peak detector

SPURIOUS EMISSIONS 26 TO 40 GHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)

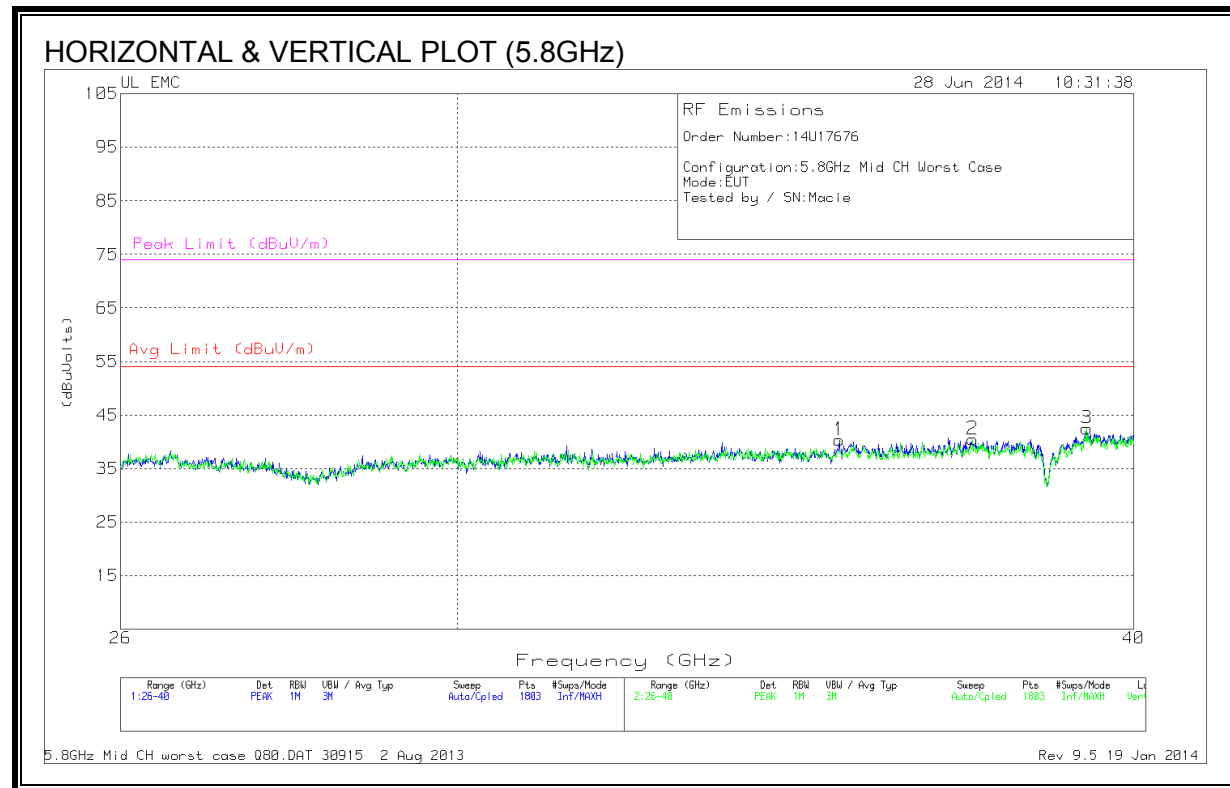


HORIZONTAL & VERTICAL DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	T90 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
2	36.224	50.33	PK	37.2	-37.7	-9.5	40.33	54	-13.67	74	-33.67
1	35.471	50.4	PK	37.9	-37.3	-9.5	41.5	54	-12.5	74	-32.5
3	38.128	50.23	PK	37.2	-37.1	-9.5	40.83	54	-13.17	74	-33.17

PK - Peak detector

SPURIOUS EMISSIONS 26 TO 40 GHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)



HORIZONTAL & VERTICAL DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	T90 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	35.292	49.03	PK	37.7	-36.9	-9.5	40.33	54	-13.67	74	-33.67
2	37.351	50.5	PK	37.3	-37.8	-9.5	40.5	54	-13.5	74	-33.5
3	39.208	49.4	PK	38.4	-35.8	-9.5	42.5	54	-11.5	74	-31.5

PK - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

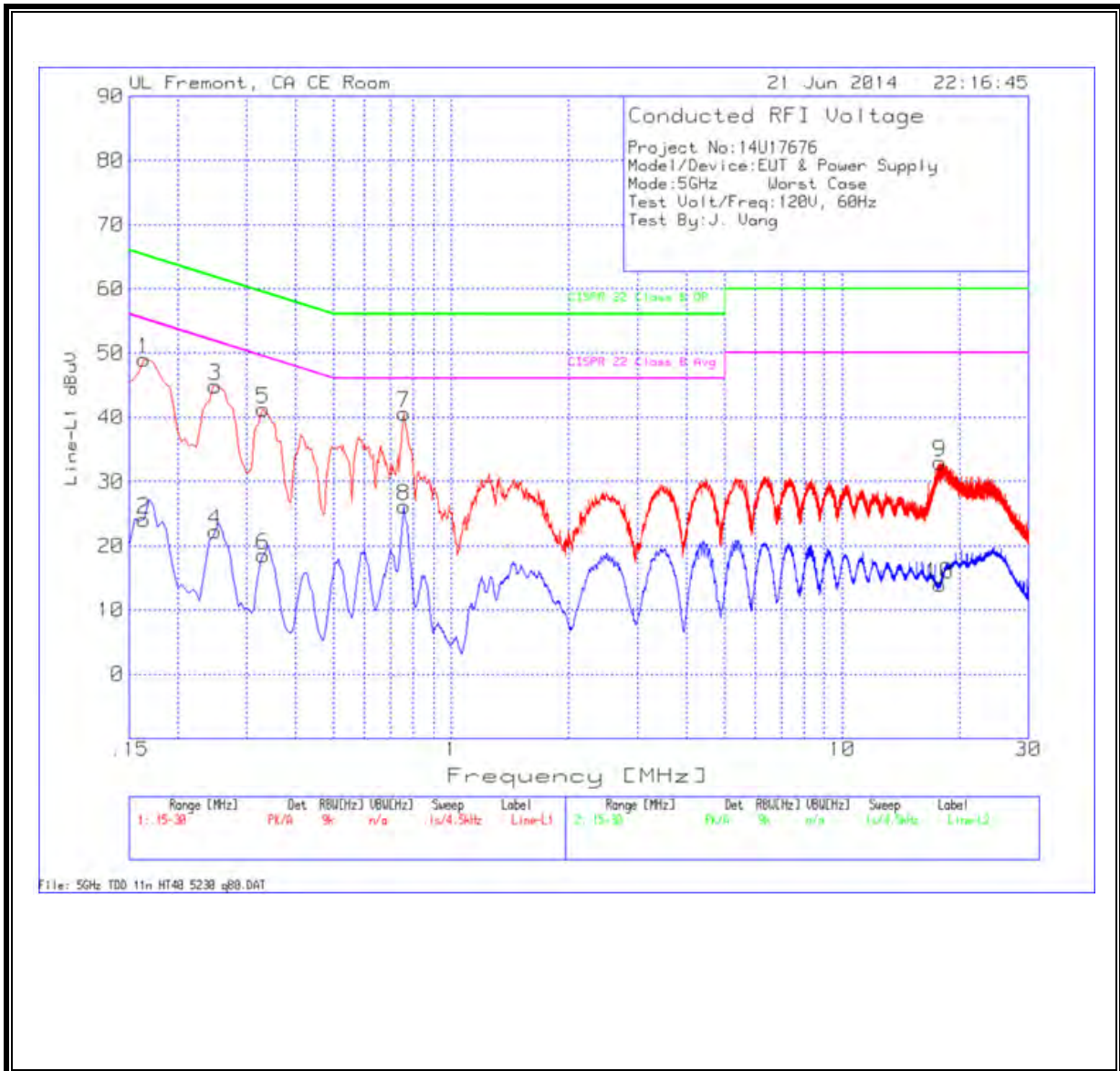
The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

LINE 1 RESULTS



WORST EMISSIONS

Line-L1 .15 - 30MHz

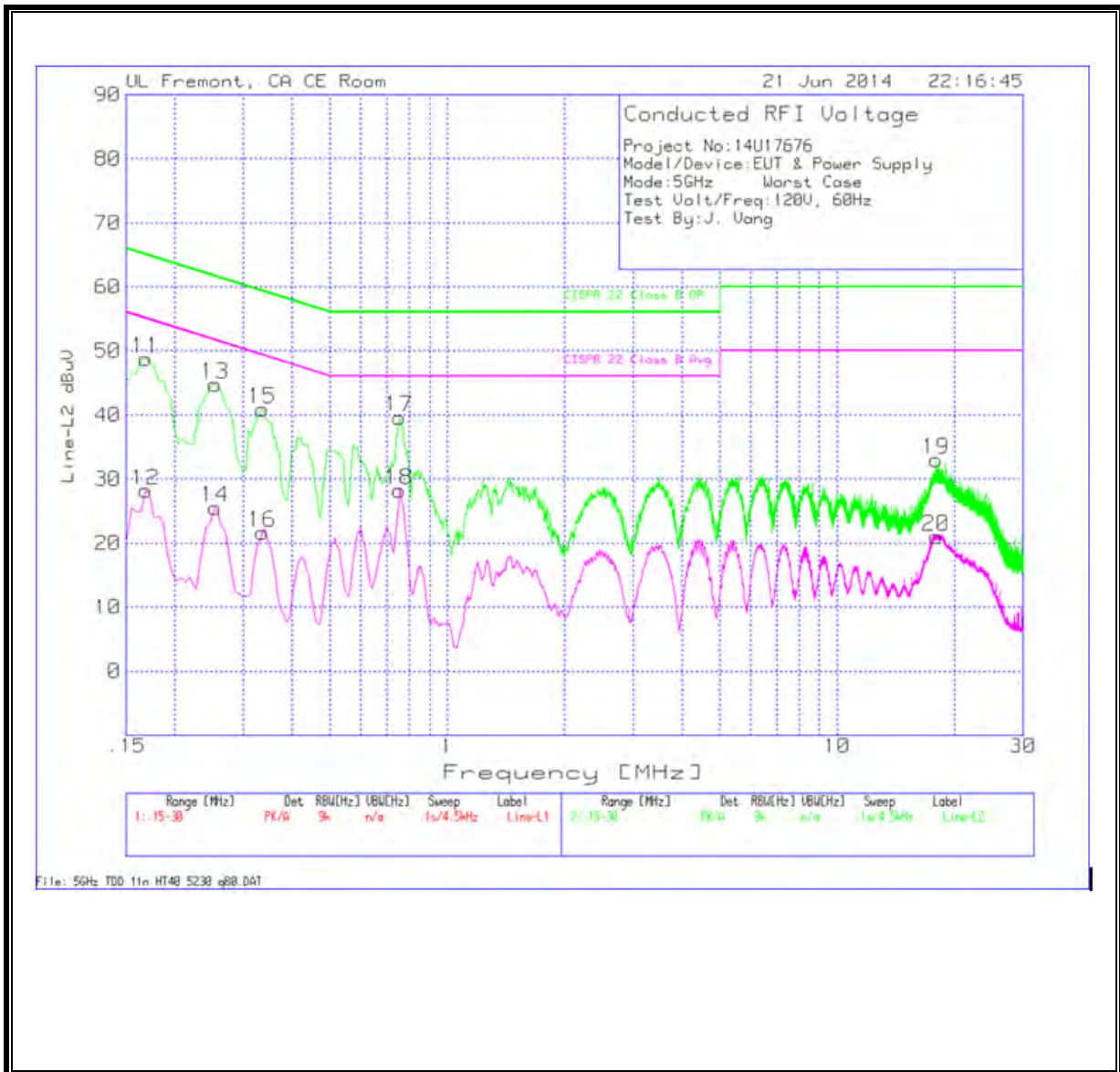
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dBUV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
1	.1635	47.79	PK	1.2	0	48.99	65.3	-16.31	-	-
2	.1635	22.87	Av	1.2	0	24.07	-	-	55.3	-31.23
3	.249	44.24	PK	.7	0	44.94	61.8	-16.86	-	-
4	.249	21.63	Av	.7	0	22.33	-	-	51.8	-29.47
5	.33	40.77	PK	.5	0	41.27	59.5	-18.23	-	-
6	.33	18.1	Av	.5	0	18.6	-	-	49.5	-30.9
7	.7575	40.38	PK	.3	0	40.68	56	-15.32	-	-
8	.7575	25.89	Av	.3	0	26.19	-	-	46	-19.81
9	17.8035	32.57	PK	.3	.2	33.07	60	-26.93	-	-
10	17.8035	13.56	Av	.3	.2	14.06	-	-	50	-35.94

PK - Peak detector

Av - average detection

LINE 2 RESULTS



WORST EMISSIONS

Line-L2 .15 - 30MHz

Trace Markers										
Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dBUV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
11	.168	47.48	PK	1.3	0	48.78	65.1	-16.32	-	-
12	.168	26.88	Av	1.3	0	28.18	-	-	55.1	-26.92
13	.2535	44.05	PK	.7	0	44.75	61.6	-16.85	-	-
14	.2535	24.79	Av	.7	0	25.49	-	-	51.6	-26.11
15	.3345	40.39	PK	.5	0	40.89	59.3	-18.41	-	-
16	.3345	21.13	Av	.5	0	21.63	-	-	49.3	-27.67
17	.753	39.27	PK	.3	0	39.57	56	-16.43	-	-
18	.753	27.92	Av	.3	0	28.22	-	-	46	-17.78
19	17.934	32.53	PK	.3	.2	33.03	60	-26.97	-	-
20	17.934	20.51	Av	.3	.2	21.01	-	-	50	-28.99

PK - Peak detector

Av - average detection

12. DYNAMIC FREQUENCY SELECTION

12.1. OVERVIEW

12.1.1. LIMITS

INDUSTRY CANADA

IC RSS-210 is closely harmonized with FCC Part 15 DFS rules. The deviations are as follows:

RSS-210 Issue 7 A9.4 (b) (ii) **Channel Availability Check Time:** ...

Additional requirements for the band 5600-5650 MHz: Until further notice, devices subject to this Section shall not be capable of transmitting in the band 5600-5650 MHz, so that Environment Canada weather radars operating in this band are protected.

FCC

§15.407 (h) and KDB 905462 D02 "COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVCIES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION" and KDB 905462 D03 "U-NII CLIENT DEVICES WITHOUT RADAR DETECTION CAPABILITY".

Table 1: Applicability of DFS requirements prior to use of a channel

Requirement	Operational Mode		
	Master	Client (without radar detection)	Client (with radar detection)
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master	Client (without DFS)	Client (with DFS)
DFS Detection Threshold	Yes	Not required	Yes
Channel Closing Transmission Time	Yes	Yes	Yes
Channel Move Time	Yes	Yes	Yes

Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (see note)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.	

Table 4: DFS Response requirement values

Parameter	Value
<i>Non-occupancy period</i>	30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds
<i>Channel Closing Transmission Time</i>	200 milliseconds + approx. 60 milliseconds over remaining 10 second period
The instant that the <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> begins is as follows: For the Short pulse radar Test Signals this instant is the end of the <i>Burst</i>. For the Frequency Hopping radar Test Signal, this instant is the end of the last radar burst generated. For the Long Pulse radar Test Signal this instant is the end of the 12-second period defining the radar transmission. The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate channel changes (an aggregate of approximately 60 milliseconds) during the remainder of the 10-second period. The aggregate duration of control signals will not count quiet periods in between transmissions.	

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (Microseconds)	PRI (Microseconds)	Pulses	Minimum Percentage of Successful Detection	Minimum Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a (of KDB 905462 D02) Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A		60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

Table 6 – Long Pulse Radar Test Signal

Radar Waveform	Bursts	Pulses per Burst	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Minimum Percentage of Successful Detection	Minimum Trials
5	8-20	1-3	50-100	5-20	1000-2000	80%	30

Table 7 – Frequency Hopping Radar Test Signal

Radar Waveform	Pulse Width (μsec)	PRI (μsec)	Burst Length (ms)	Pulses per Hop	Hopping Rate (kHz)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	300	9	.333	70%	30

SYSTEM OVERVIEW

The short pulse and long pulse signal generating system utilizes the NTIA software. The Vector Signal Generator has been validated by the NTIA. The hopping signal generating system utilizes the CCS simulated hopping method and system, which has been validated by the DoD, FCC and NTIA. The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution.

The short pulse types 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time.

The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List. The initial starting point randomized at run-time and each subsequent starting point is incremented by 475. Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of KDB 905462 D02. The frequency of the signal generator is incremented in 1 MHz steps from F_L to F_H for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

The signal monitoring equipment consists of a spectrum analyzer. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold.

SYSTEM CALIBRATION

A 50-ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to a horn antenna via a coaxial cable, with the reference level offset set to (horn antenna gain – coaxial cable loss). The signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of –64 dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyzer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. The Reference Level Offset of the spectrum analyzer is adjusted so that the displayed amplitude of the signal is –64 dBm.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of –64 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

ADJUSTMENT OF DISPLAYED TRAFFIC LEVEL

A link is established between the Master and Slave and the distance between the units is adjusted as needed to provide a suitable received level at the Master and Slave devices. The video test file is streamed to generate WLAN traffic. The monitoring antenna is adjusted so that the WLAN traffic level, as displayed on the spectrum analyzer, is at lower amplitude than the radar detection threshold.

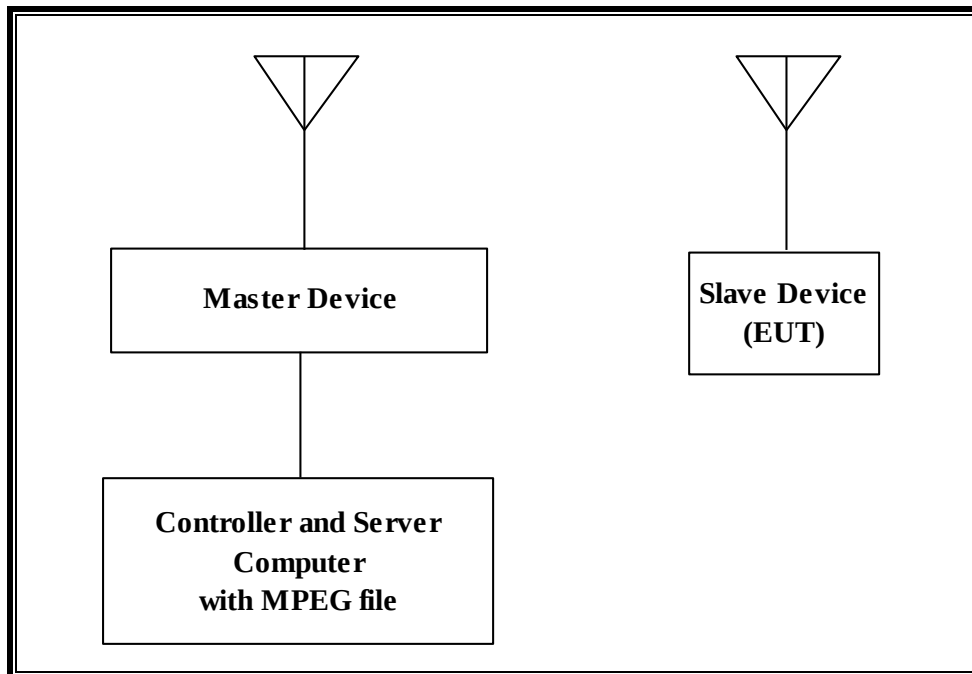
TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the DFS tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Asset Number	Cal Due
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01178	09/10/14
Vector Signal Generator, 20GHz	Agilent / HP	E8267C	C01066	09/12/14

12.1.3. SETUP OF EUT (CLIENT MODE)

RADIATED METHOD EUT TEST SETUP



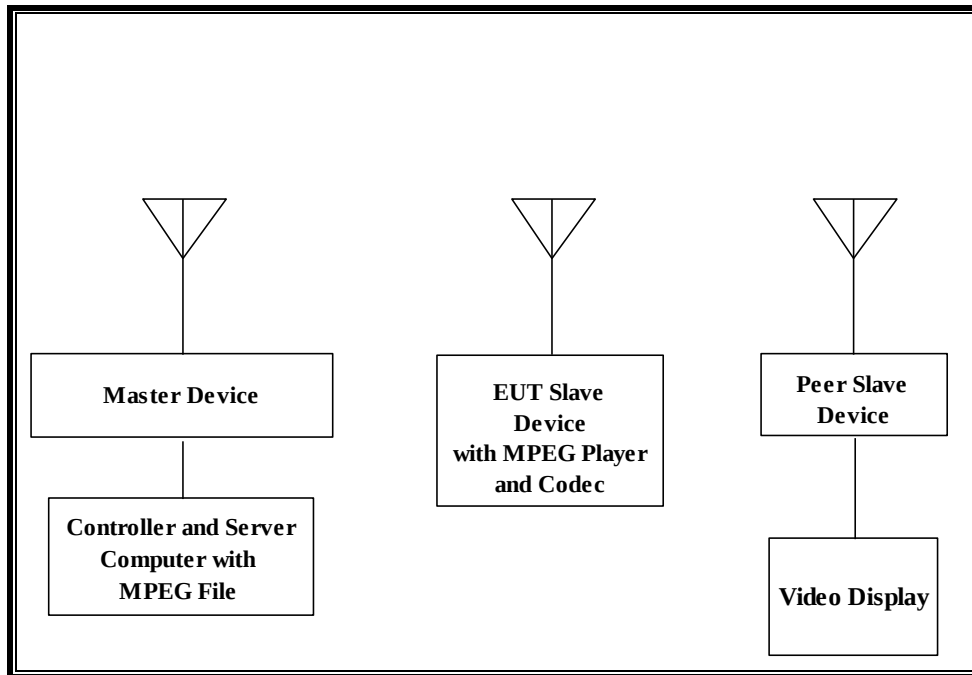
SUPPORT EQUIPMENT

The following support equipment was utilized for the DFS tests documented in this report:

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
802.11a/b/g/n/ac Wireless Access Point 2 (Master Device 1)	Apple	A1470	C86KXE50F9H6	BCGA1470
Notebook PC (Controller/Server)	Apple	MacBook A1181	W865101LWGK	DoC
AC Adapter (Controller/Server PC)	Delta Electronics	A1244	MV01000FD9DYA	DoC

12.1.4. SETUP OF EUT (CLIENT-TO-CLIENT COMMUNICATIONS MODE)

RADIATED METHOD EUT TEST SETUP



SUPPORT EQUIPMENT

The following support equipment was utilized for the DFS tests documented in this report:

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
Wireless Access Point (Master Device 2)	Cisco	AIR-AP1252AG-A-K9	FTX130390D9	LDK102061
AC Adapter (Master Device 2)	Delta Electronics	EADP-45BB B	DTH1049902N	DoC
Notebook PC (Controller/Server)	Apple	MacBook A1181	W865101LWGK	DoC
AC Adapter (Controller/Server PC)	Delta Electronics	A1244	MV01000FD9DYA	DoC
Apple TV (Peer Slave Device)	Apple	A1469	C07K202CFFF1	BCGA1469
Video Display	Dell	U2410f	CN-0FJ525N-72872-1B5-AGAL	DoC

12.1.5. DESCRIPTION OF EUT

The EUT operates over the 5250-5350 MHz and 5470-5725 MHz ranges.

The EUT is a Slave Device without Radar Detection.

The highest power level within these bands is 14.04 dBm EIRP in the 5250-5350 MHz band and 16.54 dBm EIRP in the 5470-5725 MHz band.

The only antenna assembly utilized with the EUT has a gain of -1.46 dBi in the 5250-5350 MHz band and -0.44 dBi in the 5470-5725 MHz band.

The rated output power of the Master unit is > 23 dBm (EIRP). Therefore the required interference threshold level is -64 dBm. After correction for procedural adjustments, the required radiated threshold at the antenna port is $-64 + 1 = -63$ dBm.

The calibrated radiated DFS Detection Threshold level is set to -64 dBm. The tested level is lower than the required level hence it provides a margin to the limit.

The EUT uses one transmitter/receiver chain connected to an antenna to perform radiated tests.

WLAN traffic is generated by streaming the video file TestFile.mp2 "6 ½ Magic Hours" from the Master to the Slave in full motion video mode using Safari web browser.

TPC is not required since the maximum EIRP is less than 500 mW (27 dBm).

In standard Client Mode the EUT utilizes the 802.11ac architecture. Three nominal channel bandwidths are implemented: 20 MHz, 40 MHz and 80 MHz.

In Client-to-Client Communications Mode the EUT utilizes the 802.11ac architecture between the EUT and the Master Device 2 where three nominal channel bandwidths are implemented: 20 MHz, 40 MHz and 80 MHz. However, 802.11a/n architecture is utilized between the EUT and the Peer Slave Device in Client-to Client Communications Mode where only two nominal channel bandwidths are implemented: 20 MHz and 40 MHz. Therefore, pursuant to FCC KDB Publication 848637, "Client devices with 80 MHz BW mode can be tested with an approved master operating in 40 MHz BW mode". Therefore, 80MHz BW DFS testing in Client-to-Client Communications Mode was not performed and has been excluded from this report.

The software installed in the EUT is 12A299.

UNIFORM CHANNEL SPREADING

This requirement is not applicable to Slave radio devices.

OVERVIEW OF MASTER DEVICE 1 WITH RESPECT TO §15.407 (h) REQUIREMENTS

The Master Device used during Client Mode testing was an Apple Access Point, FCC ID: BCGA1470. The minimum antenna gain for the Master Device is 1.4 dBi.

The rated output power of the Master unit is $> 23\text{dBm}$ (EIRP). Therefore the required interference threshold level is -64 dBm . After correction for procedural adjustments, the required radiated threshold at the antenna port is $-64 + 1 = -63\text{ dBm}$.

The calibrated radiated DFS Detection Threshold level is set to -64 dBm . The tested level is lower than the required level hence it provides a margin to the limit.

The software installed in the access point is 7.7D3.

OVERVIEW OF MASTER DEVICE 2 WITH RESPECT TO §15.407 (h) REQUIREMENTS

The Master Device used during Client-to-Client Mode testing was a Cisco Access Point, FCC ID: LDK102061. The minimum antenna gain for the Master Device is 3.5 dBi.

The rated output power of the Master unit is $> 23\text{dBm}$ (EIRP). Therefore the required interference threshold level is -64 dBm . After correction for procedural adjustments, the required radiated threshold at the antenna port is $-64 + 1 = -63\text{ dBm}$.

The calibrated radiated DFS Detection Threshold level is set to -64 dBm . The tested level is lower than the required level hence it provides a margin to the limit.

The software installed in the access point is 12.4(25d)JA1.

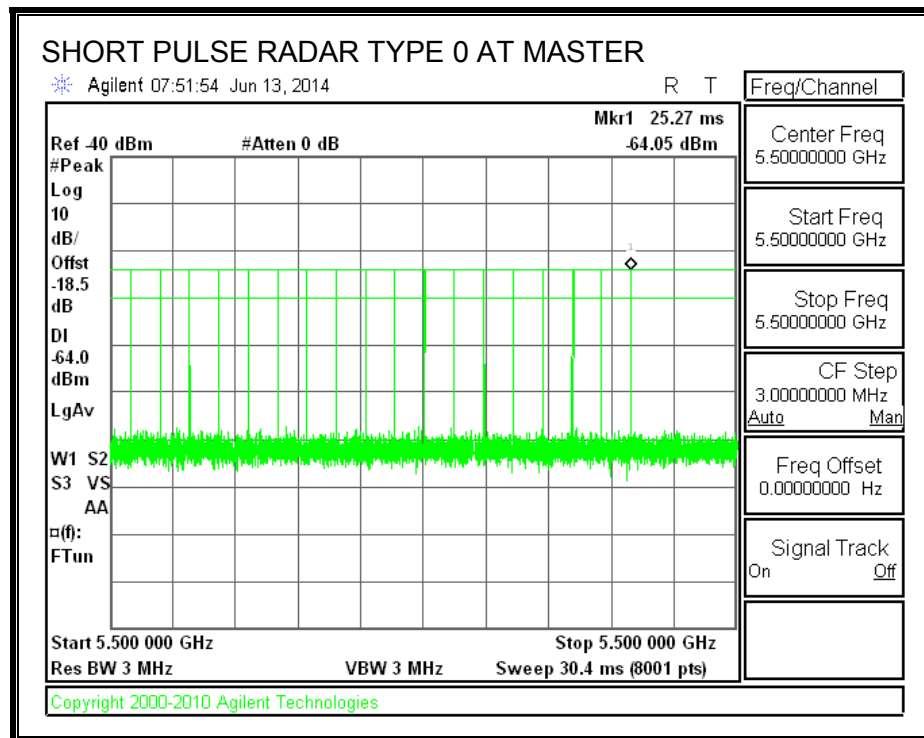
12.2. CLIENT MODE RESULTS FOR 20 MHz BANDWIDTH

12.2.1. TEST CHANNEL

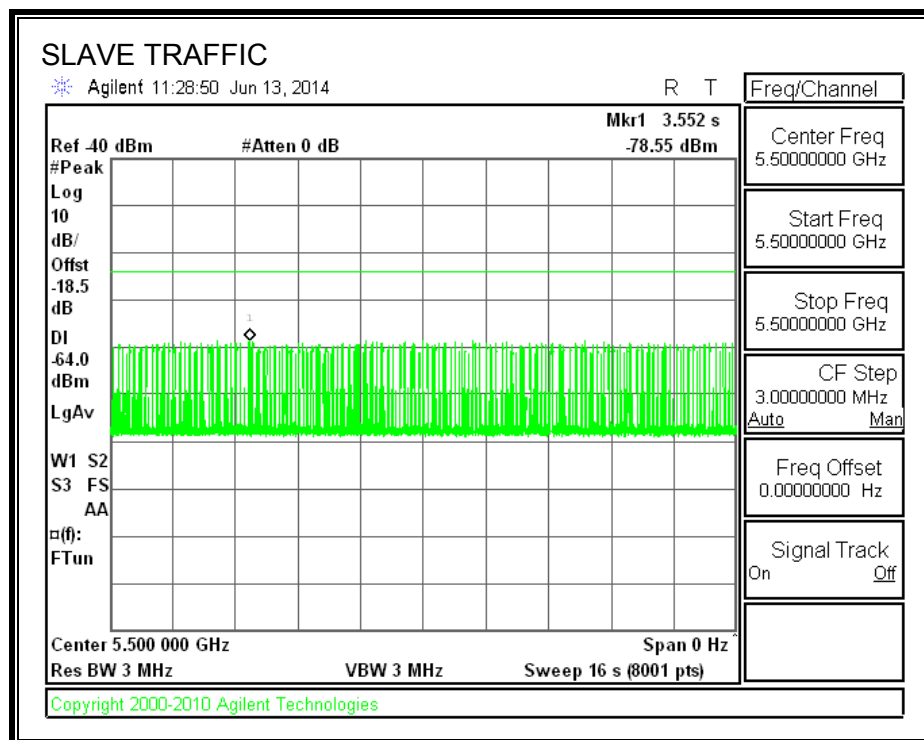
All tests were performed at a channel center frequency of 5500 MHz.

12.2.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



TRAFFIC



12.2.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

12.2.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =
(Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

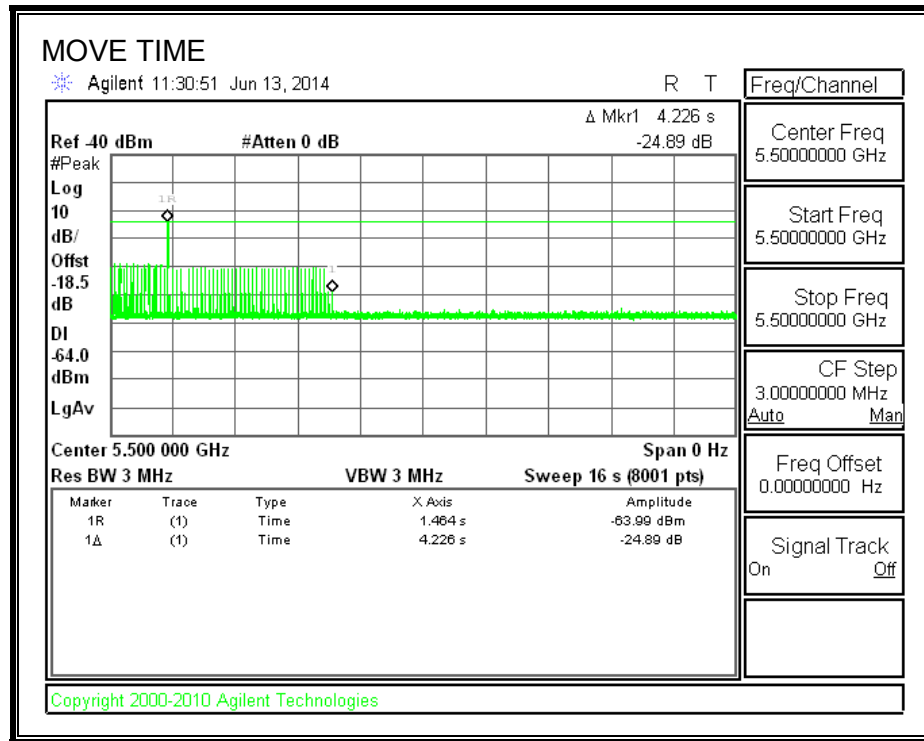
RESULTS

Channel Move Time (sec)	Limit (sec)
4.181	10

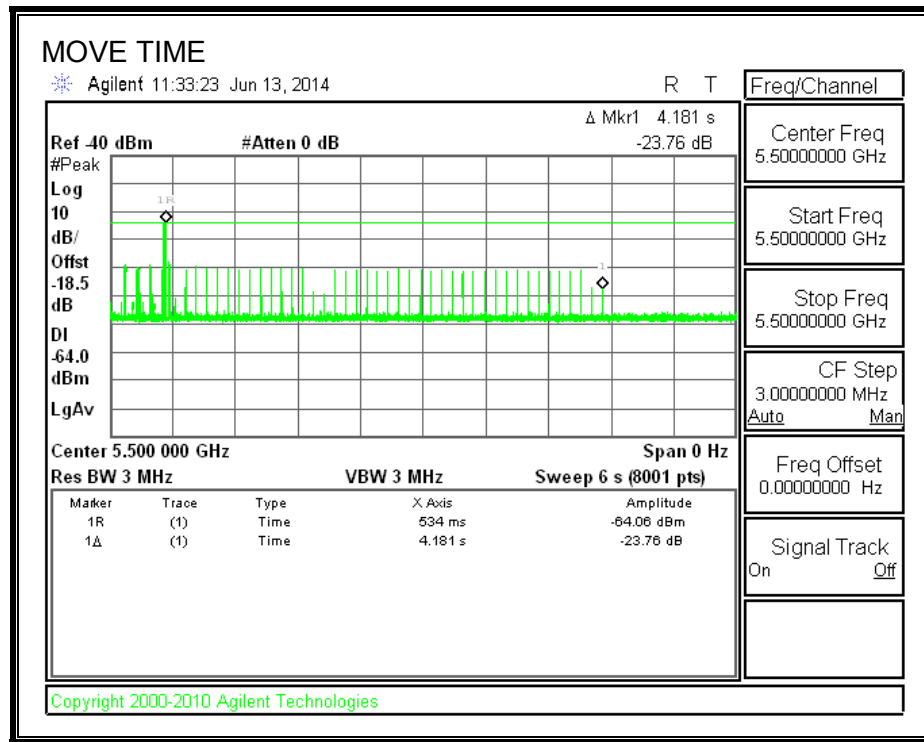
Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
50.3	60

MOVE TIME

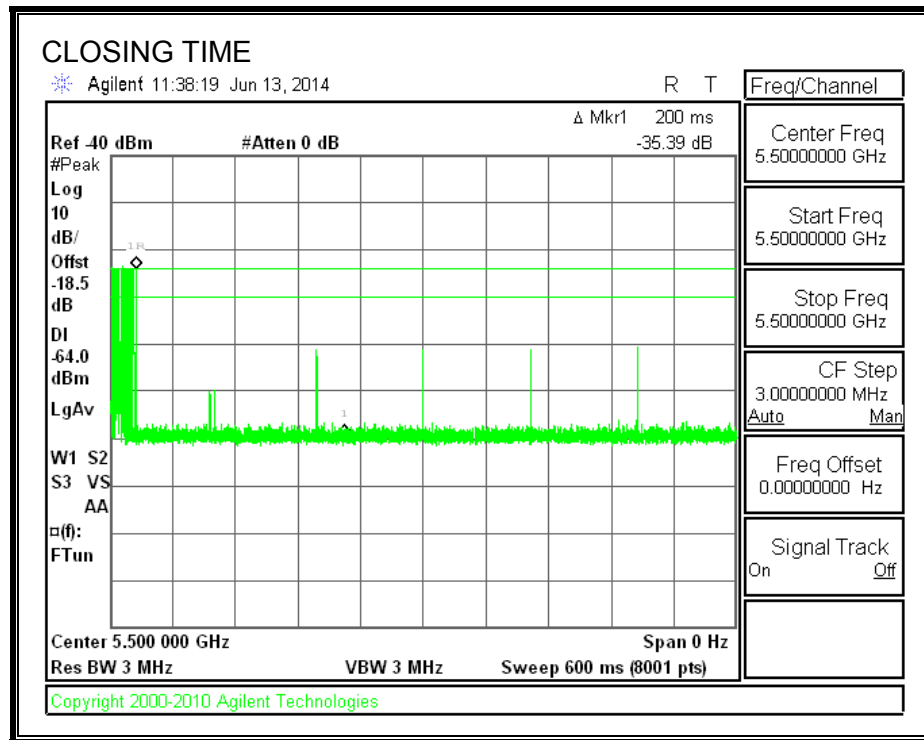
16 SECOND SWEEP:



6 SECOND SWEEP:

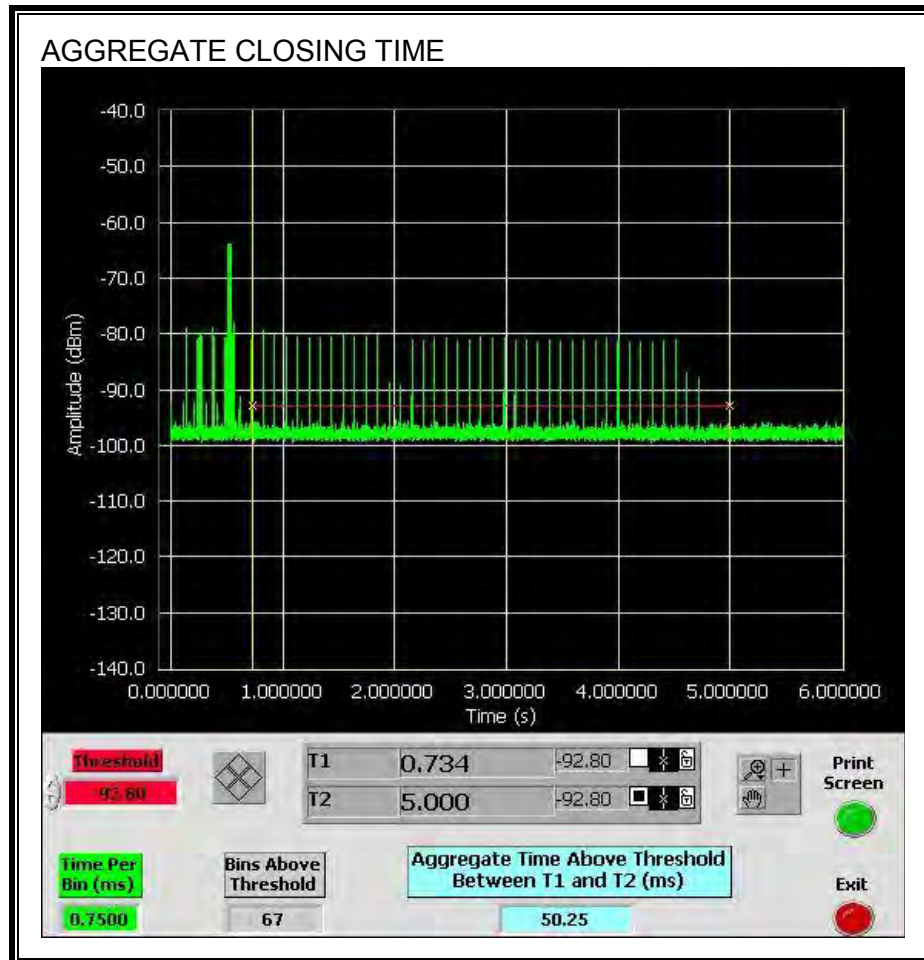


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.



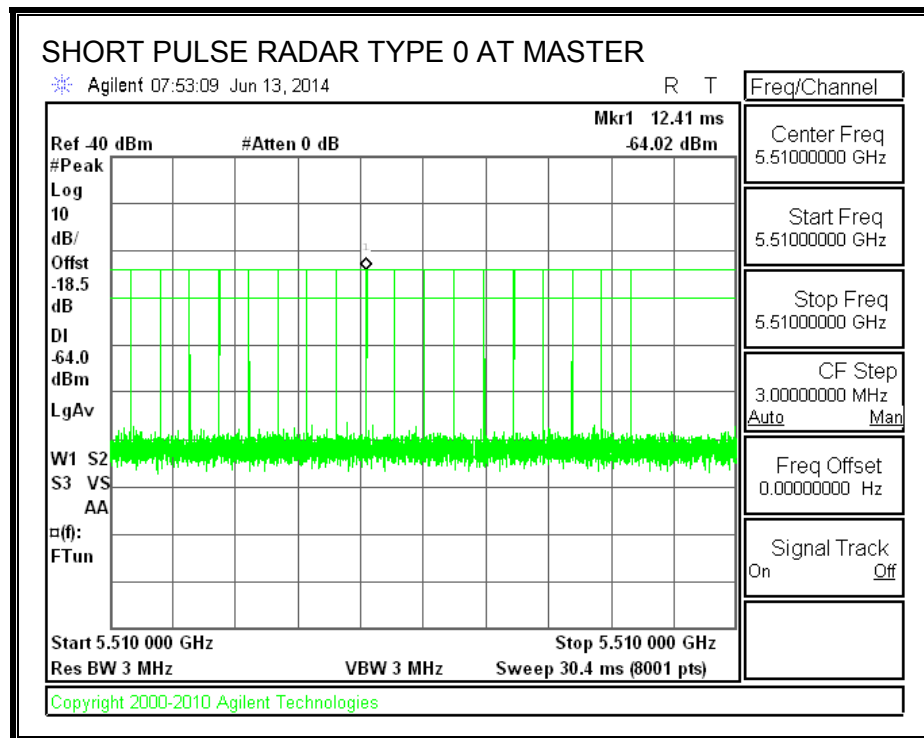
12.3. CLIENT MODE RESULTS FOR 40 MHz BANDWIDTH

12.3.1. TEST CHANNEL

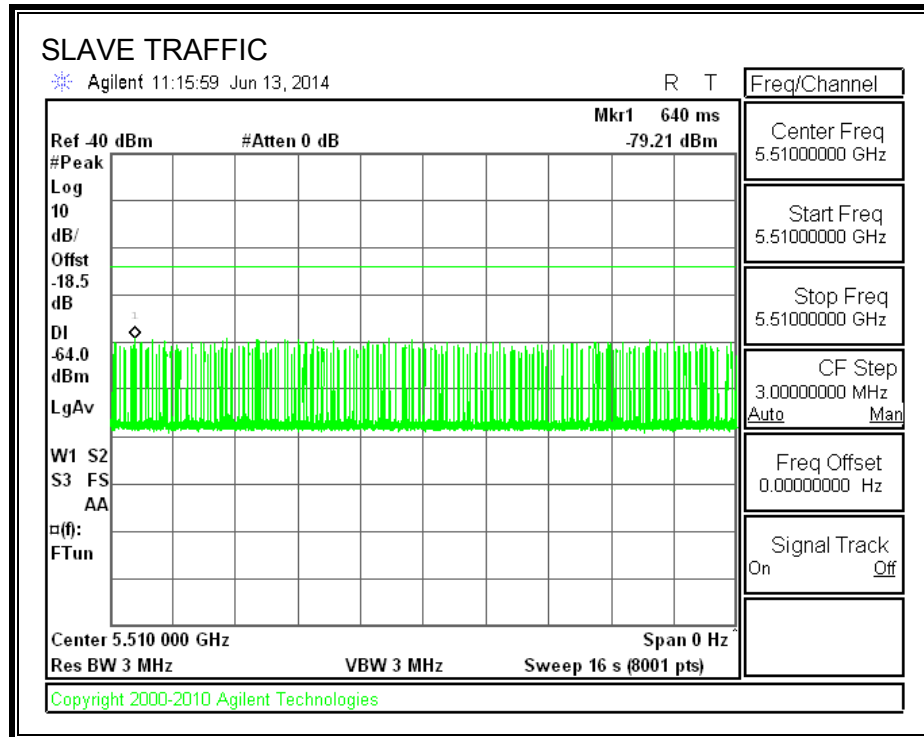
All tests were performed at a channel center frequency of 5510 MHz.

12.3.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



TRAFFIC



12.3.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

12.3.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =
(Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

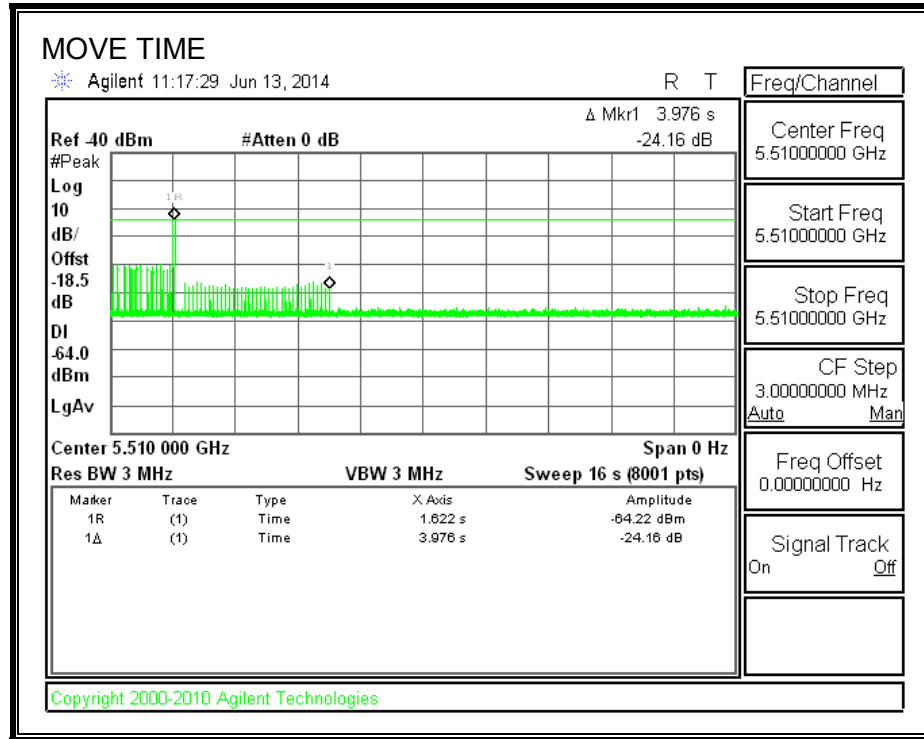
RESULTS

Channel Move Time (sec)	Limit (sec)
3.971	10

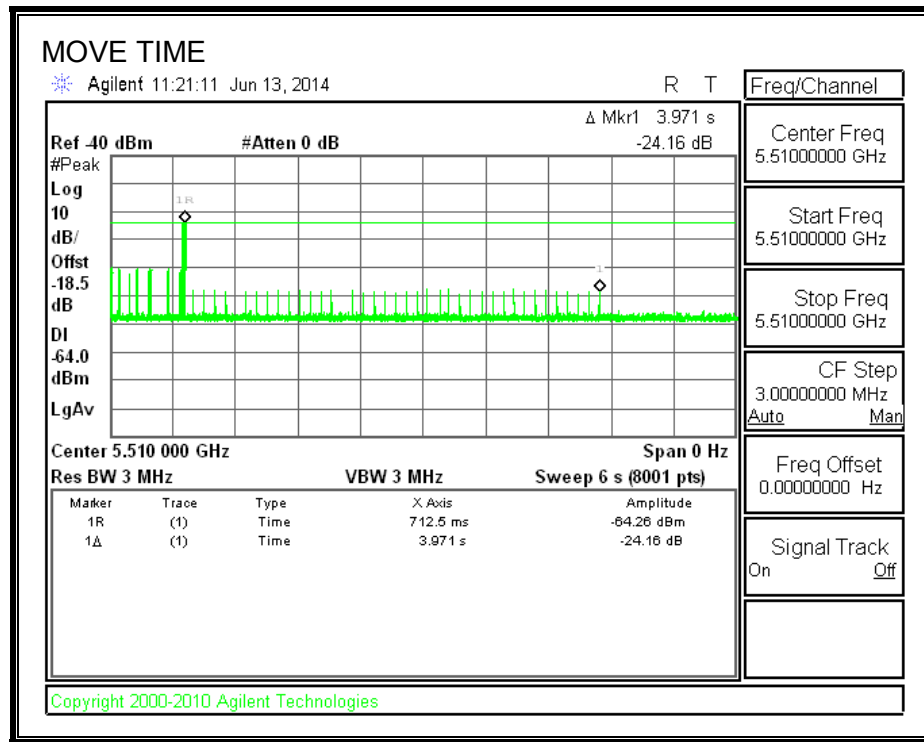
Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
27.0	60

MOVE TIME

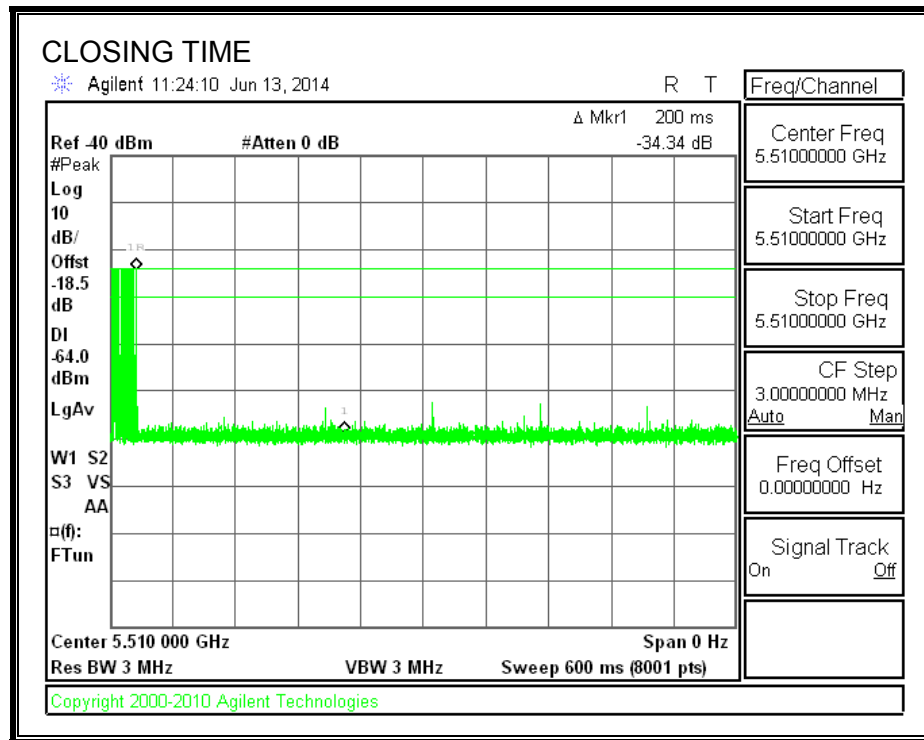
16 SECOND SWEEP:



6 SECOND SWEEP:

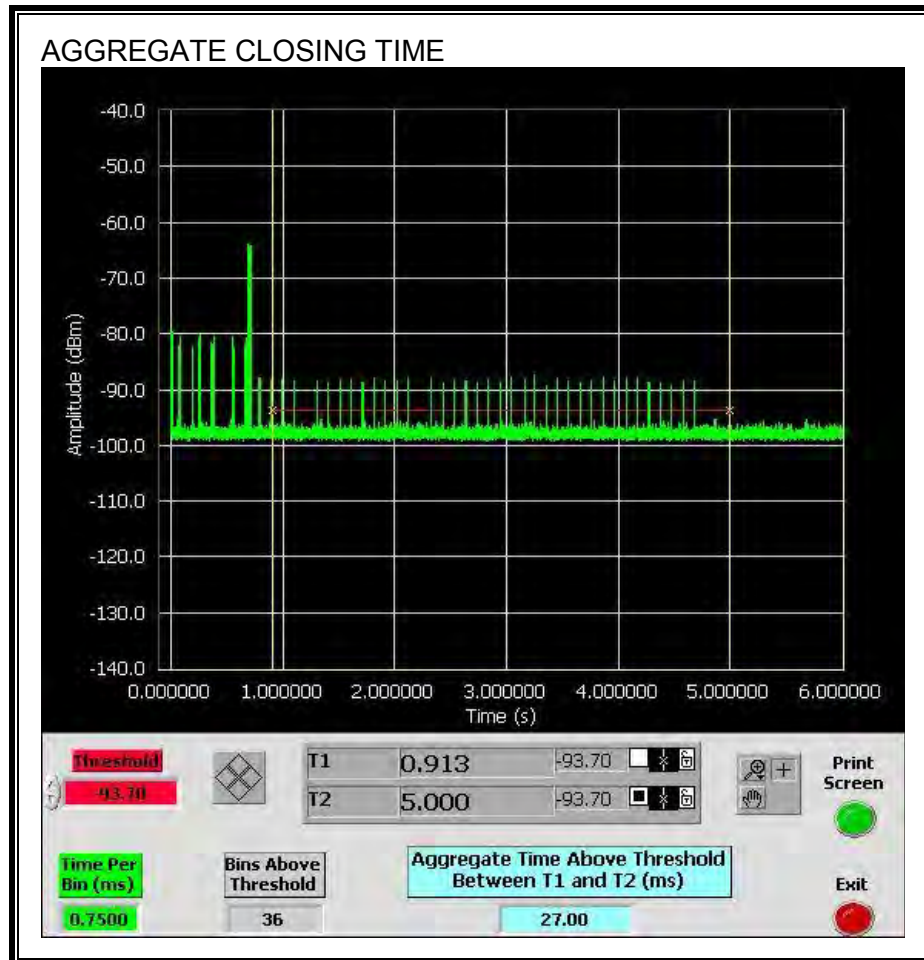


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

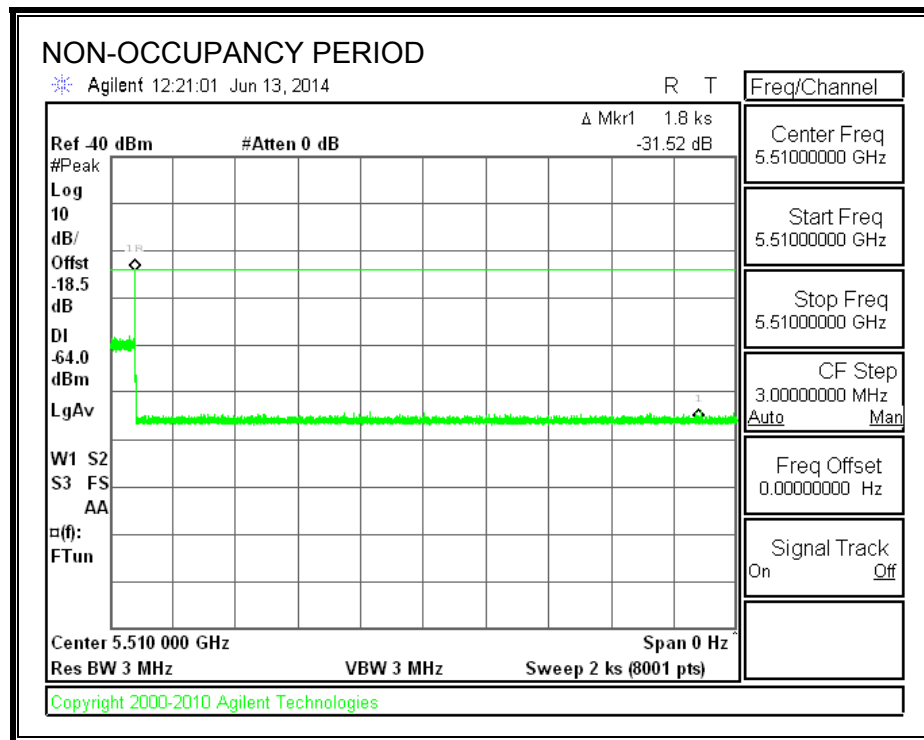
Only intermittent transmissions are observed during the aggregate monitoring period.



12.3.5. NON-OCCUPANCY PERIOD

RESULTS

No EUT transmissions were observed on the test channel during the 30-minute observation time.



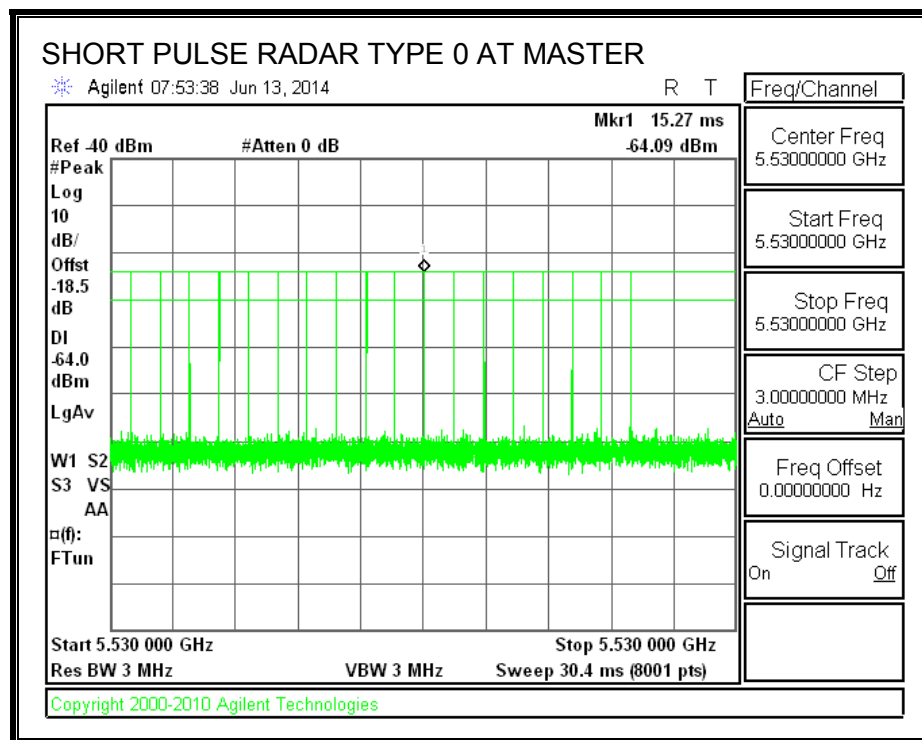
12.4. CLIENT MODE RESULTS FOR 80 MHz BANDWIDTH

12.4.1. TEST CHANNEL

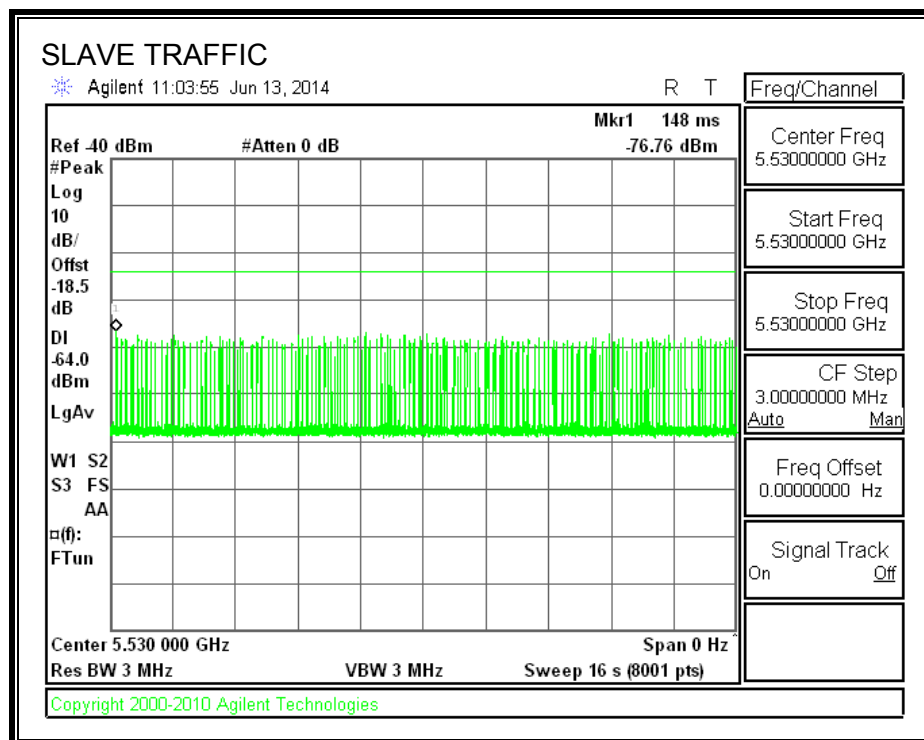
All tests were performed at a channel center frequency of 5530 MHz.

12.4.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



TRAFFIC



12.4.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

12.4.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =
(Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

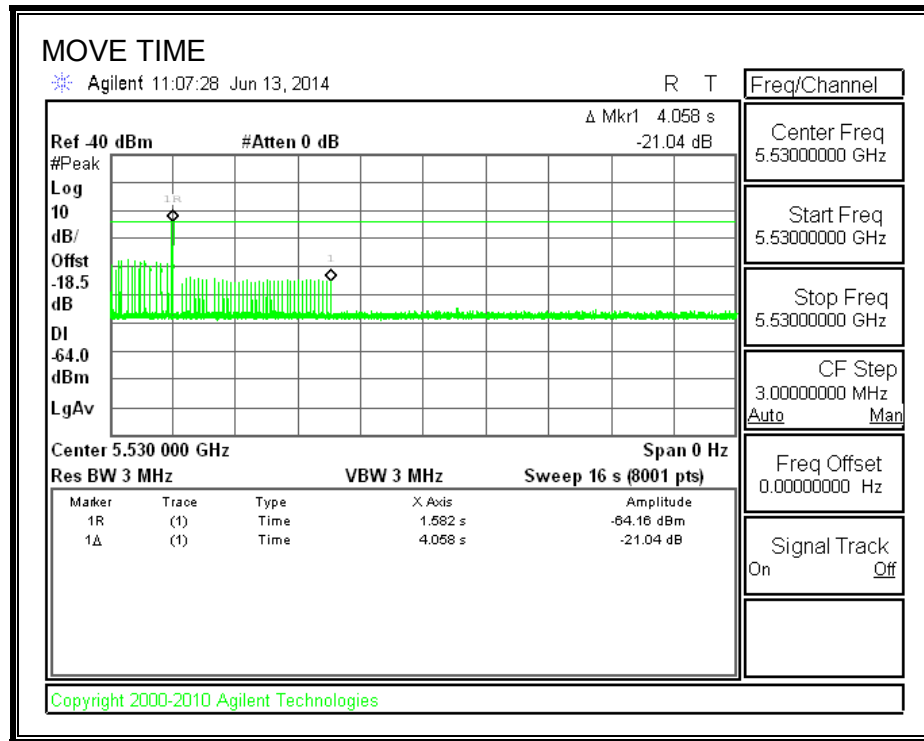
RESULTS

Channel Move Time (sec)	Limit (sec)
4.080	10

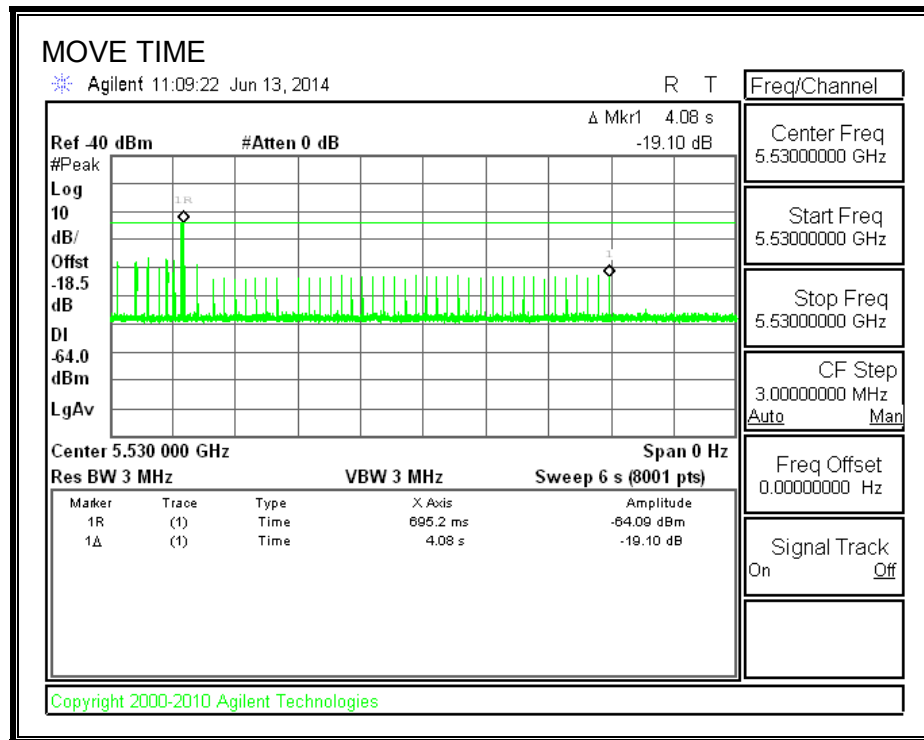
Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
30.0	60

MOVE TIME

16 SECOND SWEEP:

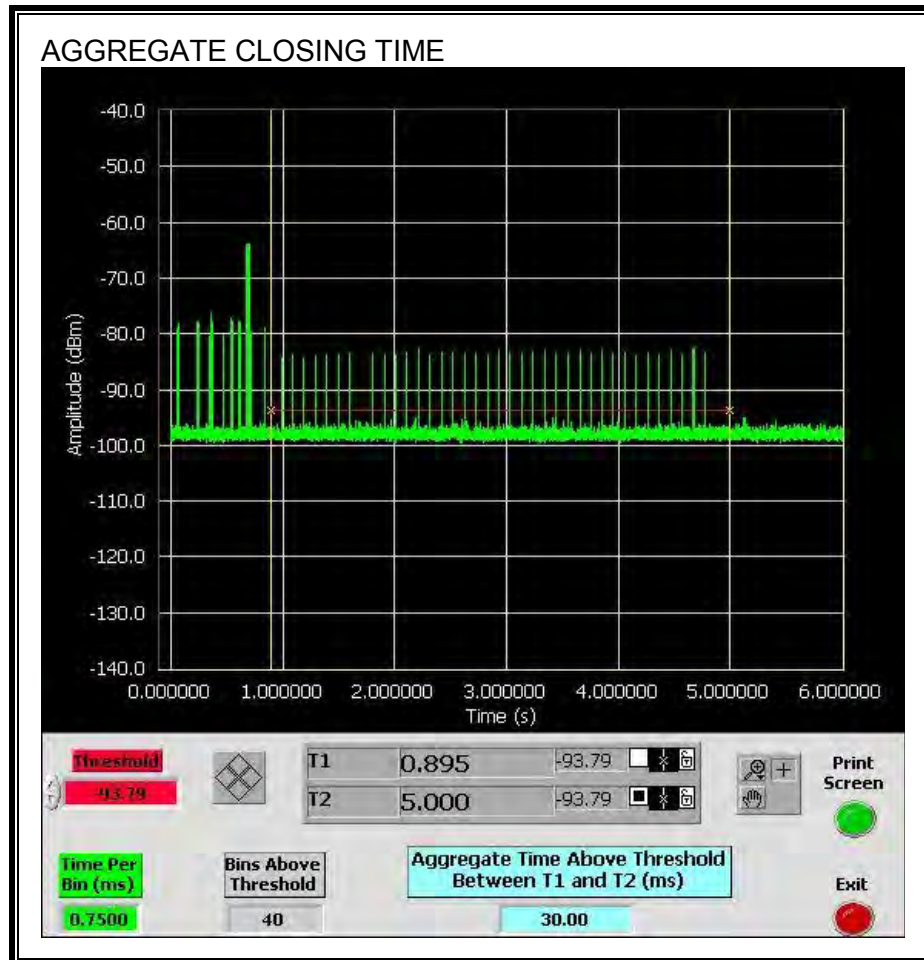


6 SECOND SWEEP:



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.



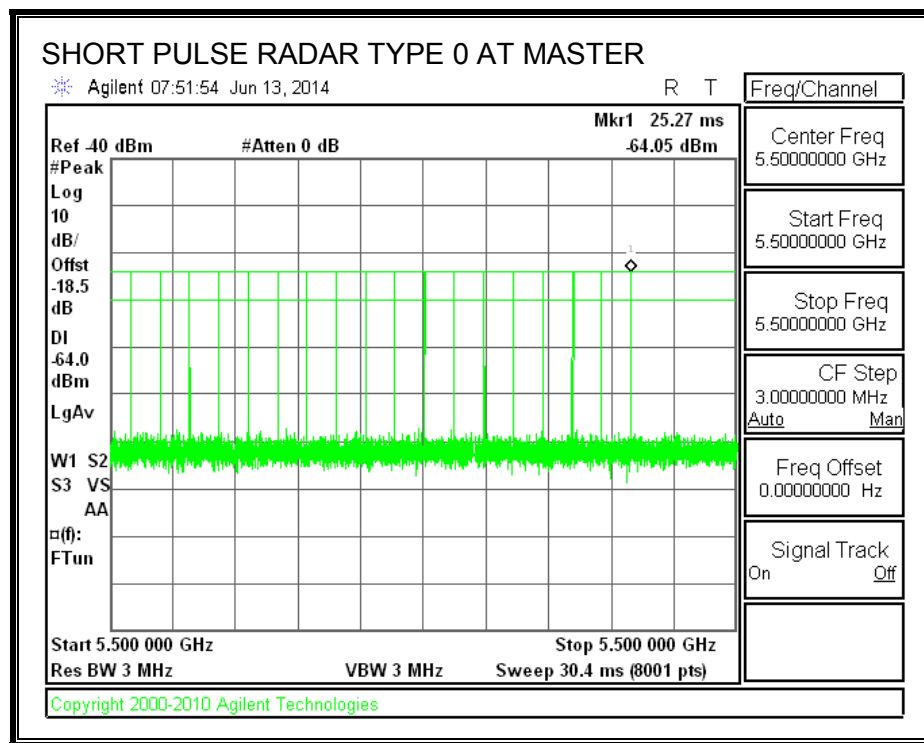
12.5. CLIENT-TO-CLIENT COMMUNICATIONS MODE RESULTS FOR 20 MHz BANDWIDTH

12.5.1. TEST CHANNEL

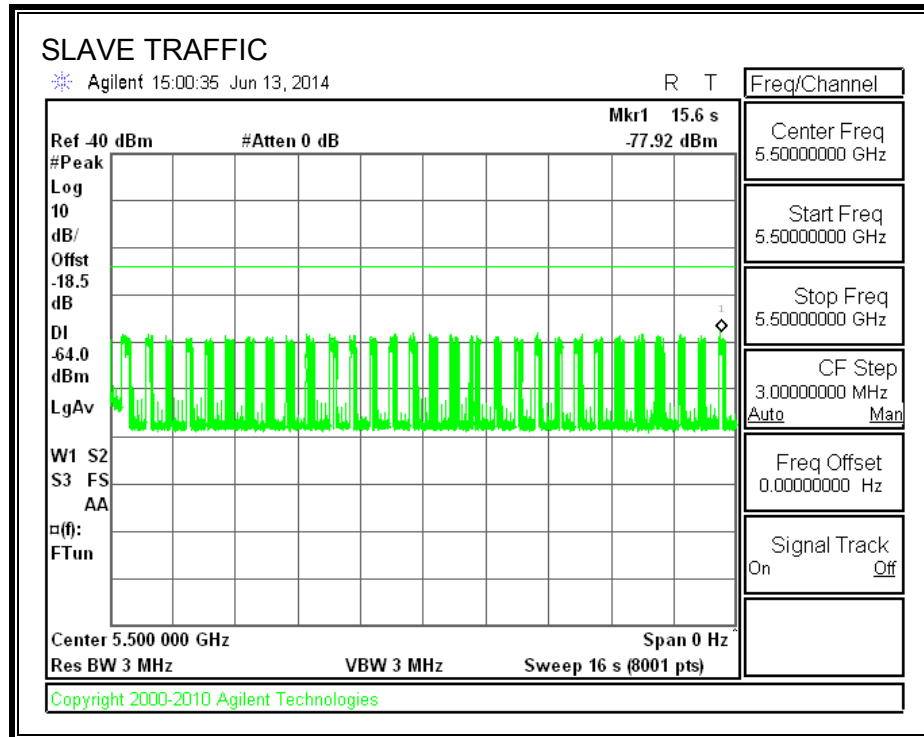
All tests were performed at a channel center frequency of 5500 MHz.

12.5.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



TRAFFIC



12.5.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

12.5.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =
(Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

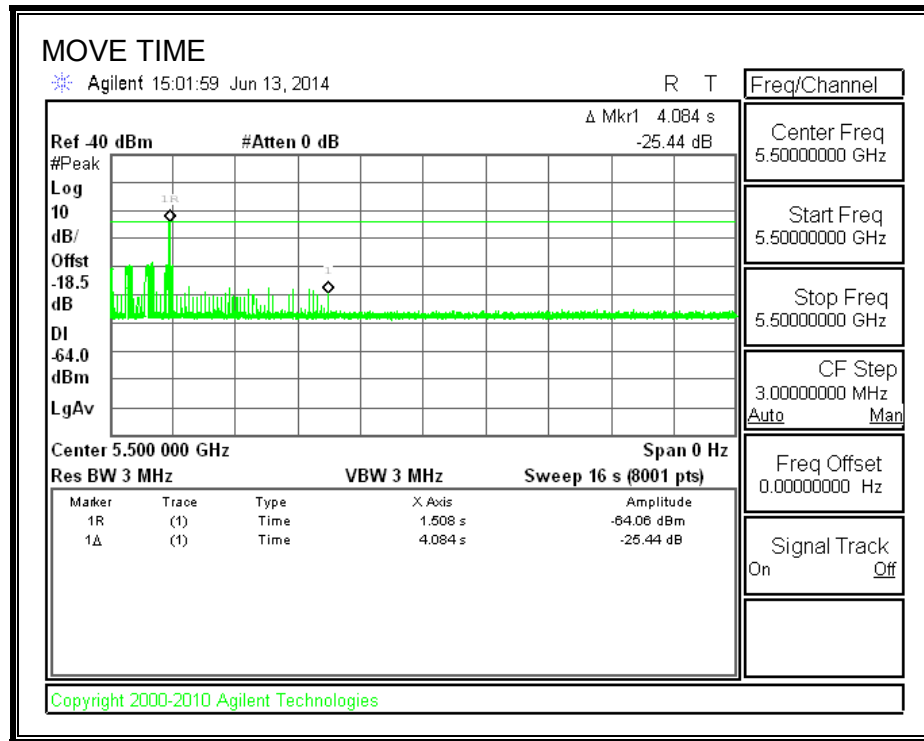
RESULTS

Channel Move Time (sec)	Limit (sec)
0.5408	10

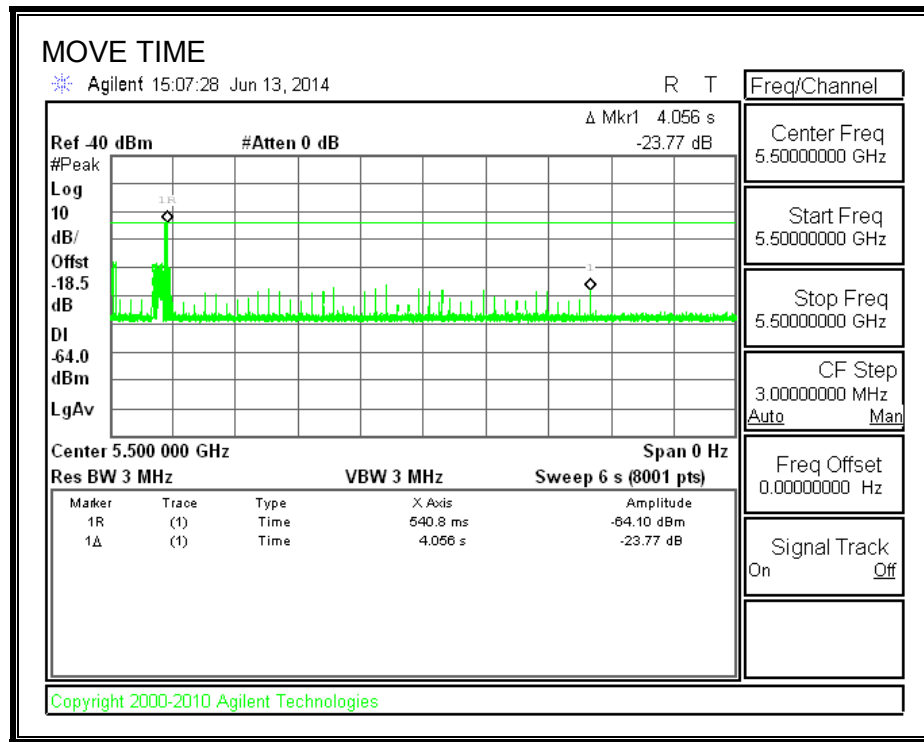
Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
50.25	60

MOVE TIME

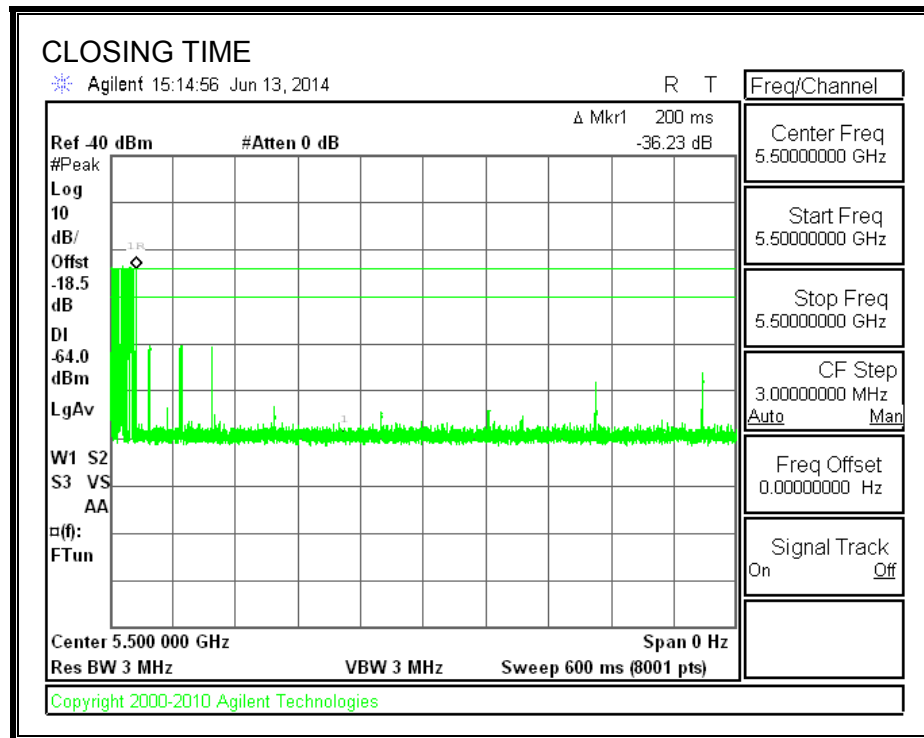
16 SECOND SWEEP:



6 SECOND SWEEP:

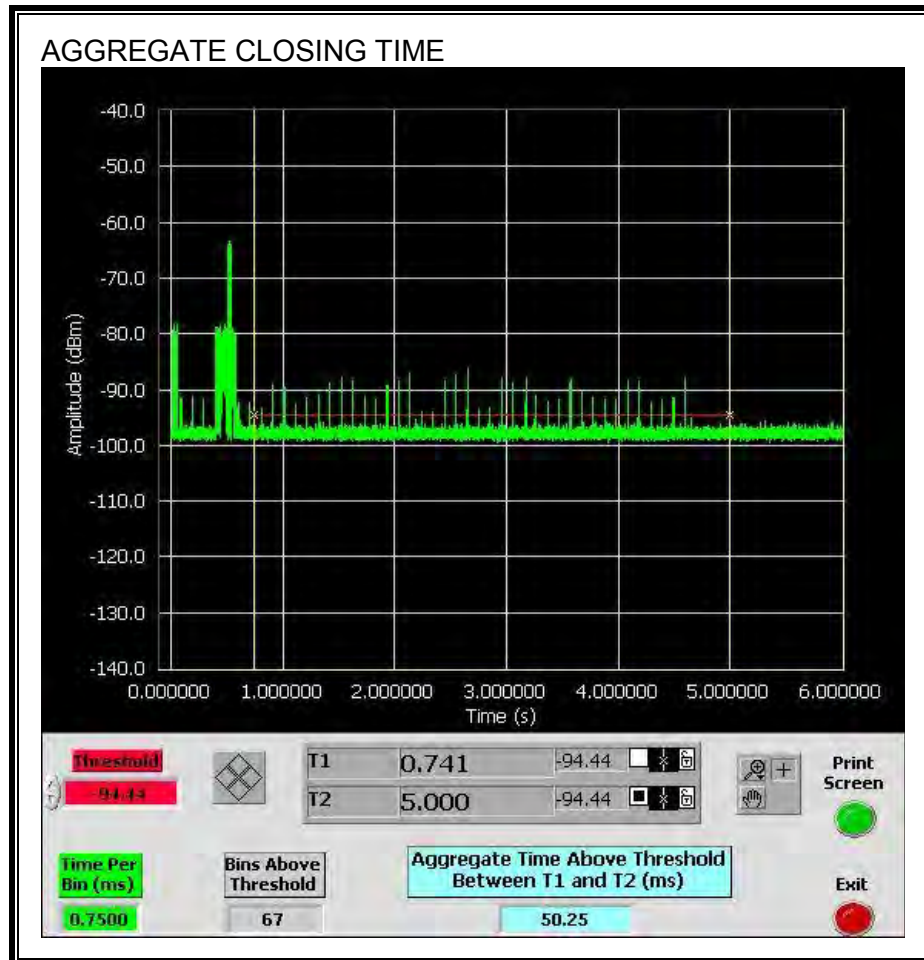


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.



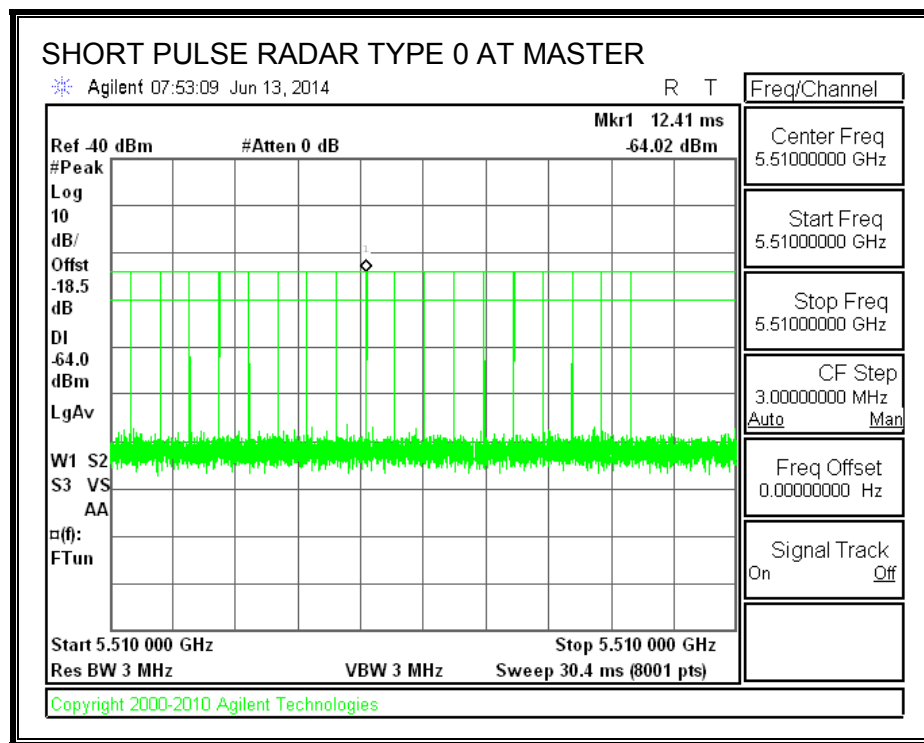
12.6. CLIENT-TO-CLIENT COMMUNICATIONS MODE RESULTS FOR 40 MHz BANDWIDTH

12.6.1. TEST CHANNEL

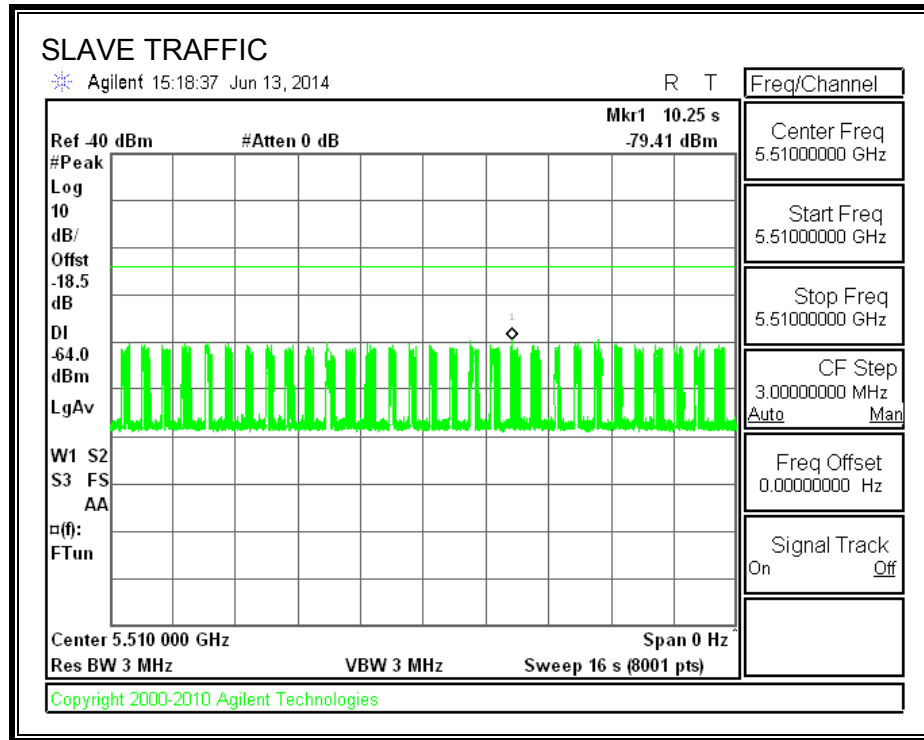
All tests were performed at a channel center frequency of 5510 MHz.

12.6.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



TRAFFIC



12.6.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

12.6.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =
(Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

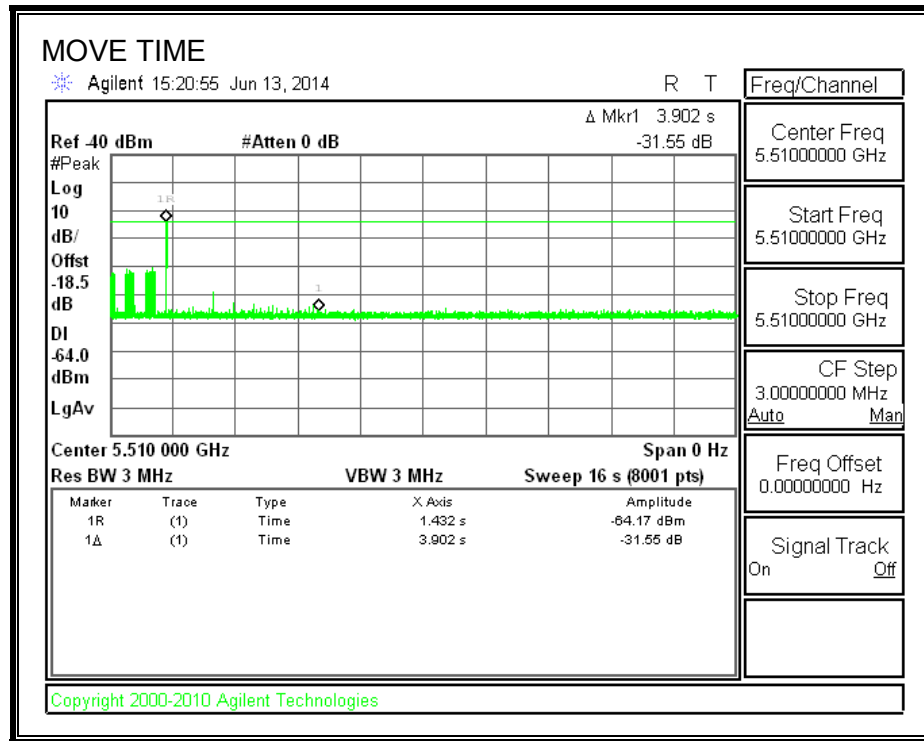
RESULTS

Channel Move Time (sec)	Limit (sec)
0.6128	10

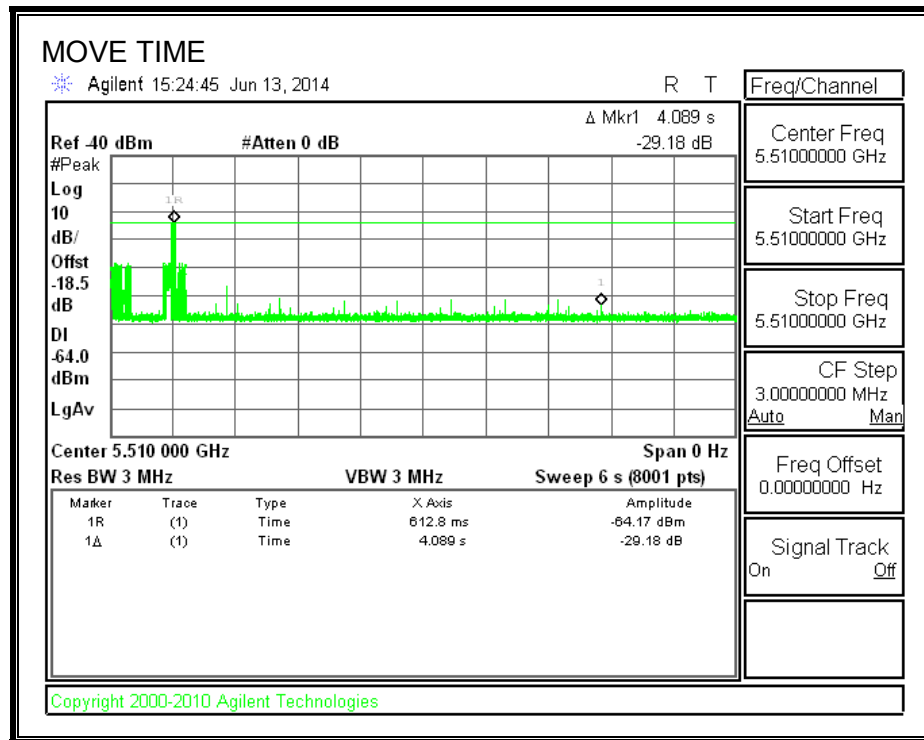
Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
24.75	60

MOVE TIME

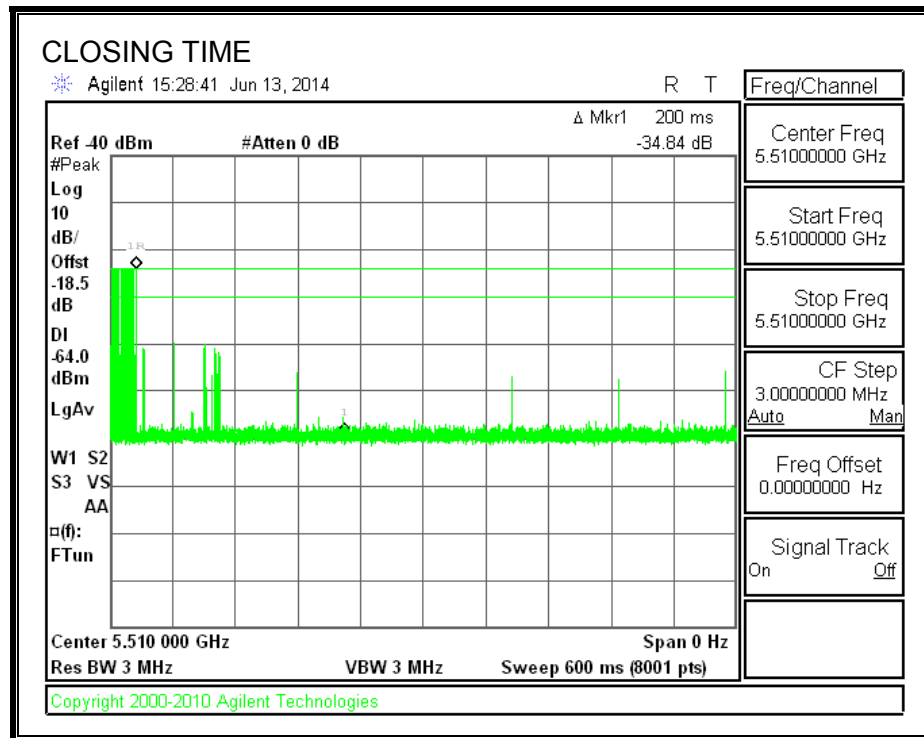
16 SECOND SWEEP:



6 SECOND SWEEP:



CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.

