

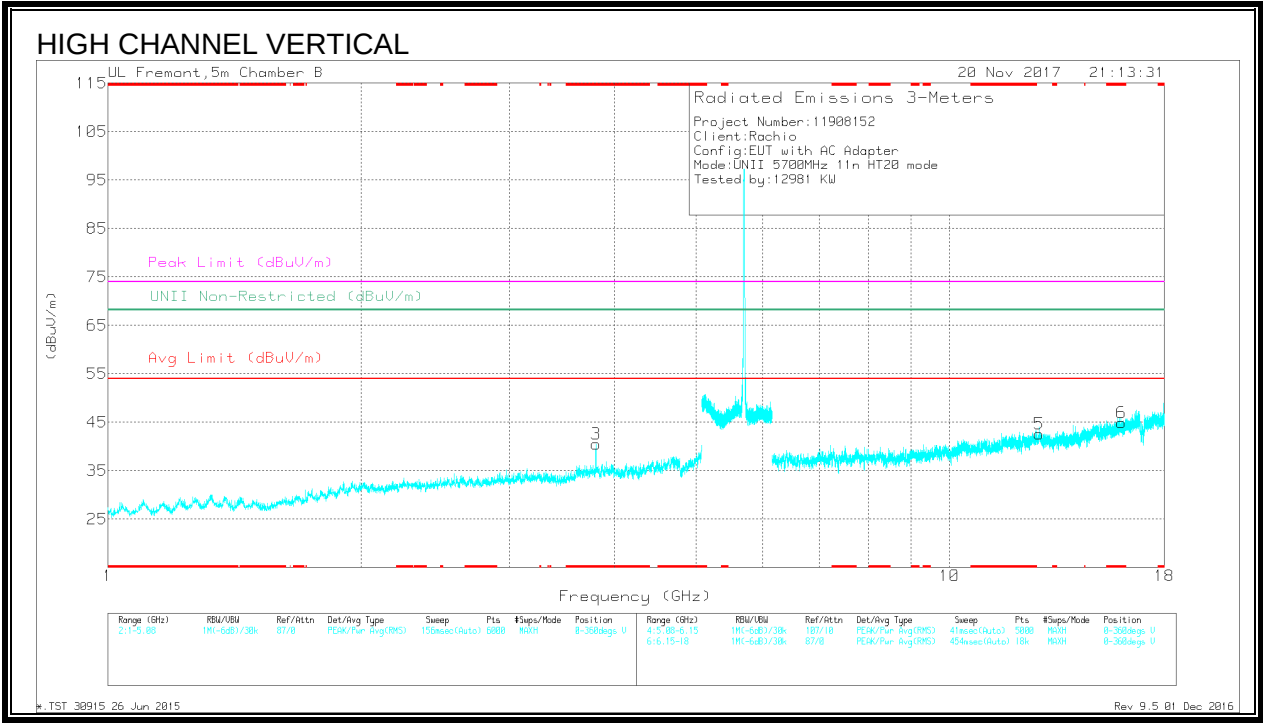
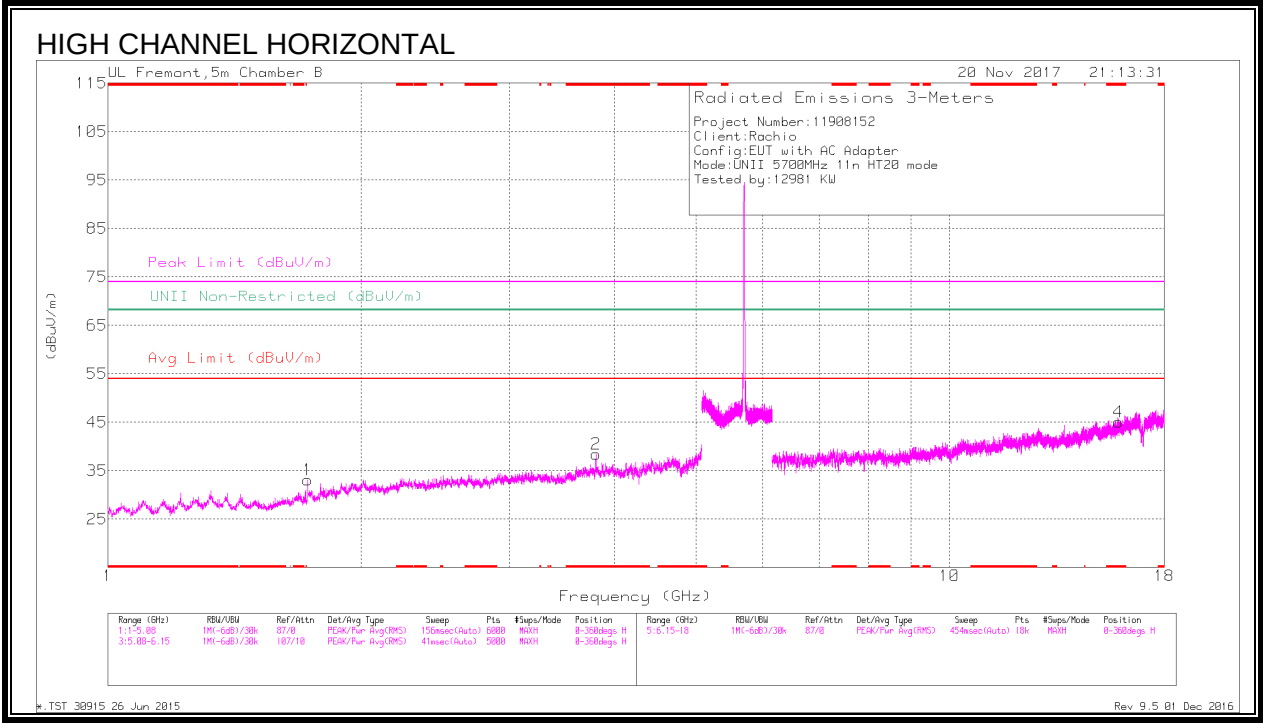
Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cou/Fbr/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	* 4.686	39.31	PK-U	34.2	-29.1	0	44.41	-	-	74	-29.59	-	-	281	225	H
	* 4.687	27.12	ADR	34.2	-29.1	1	33.22	54	-20.78	-	-	-	-	281	225	H
2	* 3.718	39.34	PK-U	33.3	-30.7	0	41.94	-	-	74	-32.06	-	-	181	178	V
	* 3.72	29	ADR	33.3	-30.7	1	32.60	54	-21.40	-	-	-	-	181	178	V
3	* 10.951	32.01	PK-U	37.7	-22.3	0	47.41	-	-	74	-26.59	-	-	200	134	H
	* 10.951	19.24	ADR	37.7	-22.3	1	35.64	54	-18.36	-	-	-	-	200	134	H
5	* 7.506	35.77	PK-U	36	-26.4	0	45.37	-	-	74	-28.63	-	-	212	166	V
	* 7.505	24.26	ADR	36	-26.4	1	34.86	54	-19.14	-	-	-	-	212	166	V
6	* 11.735	32.38	PK-U	38.5	-22.8	0	48.08	-	-	74	-25.92	-	-	230	151	V
	* 11.734	20.28	ADR	38.5	-22.8	1	36.98	54	-17.02	-	-	-	-	230	151	V
4	16.459	30.08	PK-U	41.6	-19.8	0	51.88	-	-	-	-	68.2	-16.32	262	182	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fix/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	LNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.802	40.8	PK-U	33.5	-30.8	0	43.5	-	-	74	-30.5	-	-	288	159	H
* 3.8	31.7	ADR	33.6	-30.8	1	35.50	54	-18.50	-	-	-	-	288	159	H
* 3.8	40.99	PK-U	33.6	-30.8	0	43.79	-	-	74	-30.21	-	-	252	197	V
* 3.8	31.8	ADR	33.6	-30.8	1	35.60	54	-18.40	-	-	-	-	252	197	V
* 15.871	29.37	PK-U	41	-18.8	0	51.57	-	-	74	-22.43	-	-	142	178	H
* 15.873	15.5	ADR	41	-18.9	1	38.60	54	-15.40	-	-	-	-	142	178	H
* 16.013	30.99	PK-U	41.2	-20.5	0	51.69	-	-	74	-22.31	-	-	119	129	V
* 16.014	17.52	ADR	41.2	-20.4	1	39.32	54	-14.68	-	-	-	-	119	129	V
1.729	40.6	PK-U	29.4	-32.4	0	37.6	-	-	-	-	68.2	-30.6	348	138	H
12.776	32.01	PK-U	39.4	-21.3	0	50.11	-	-	-	-	68.2	-18.09	325	118	V

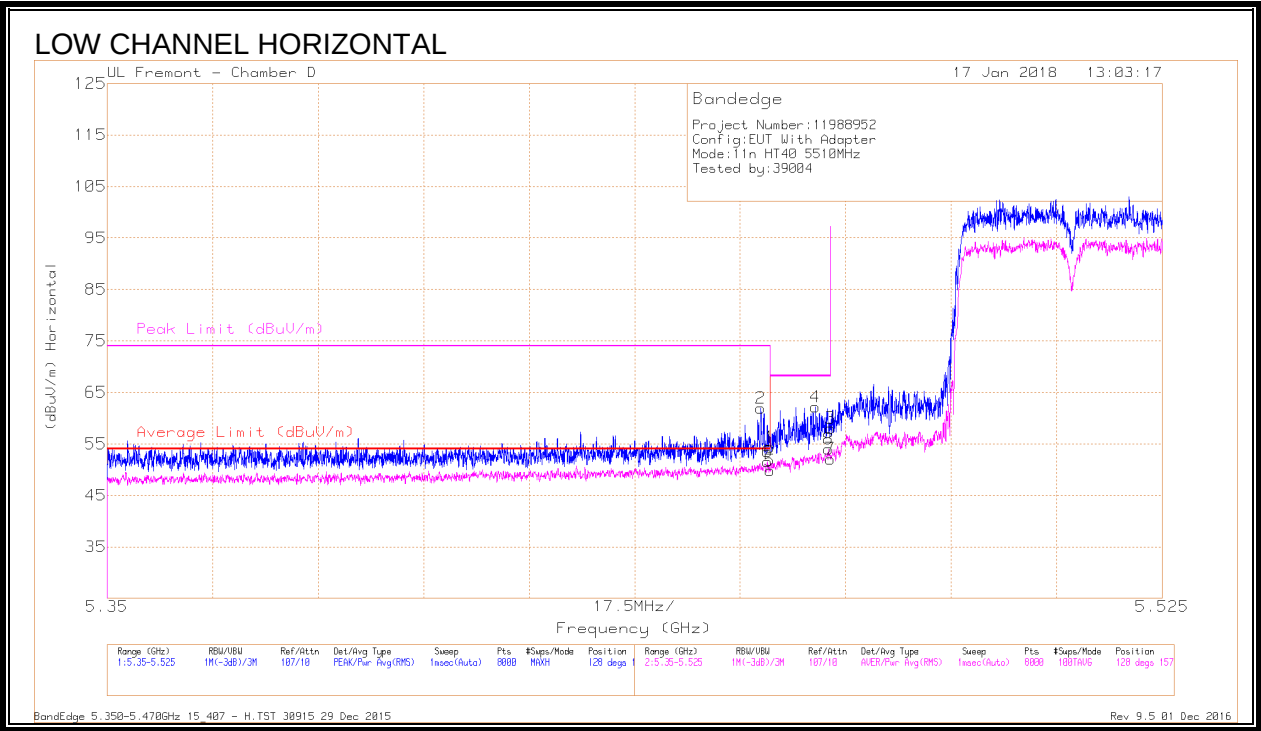
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.1.9. 11n HT40 MODE IN THE 5.6GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



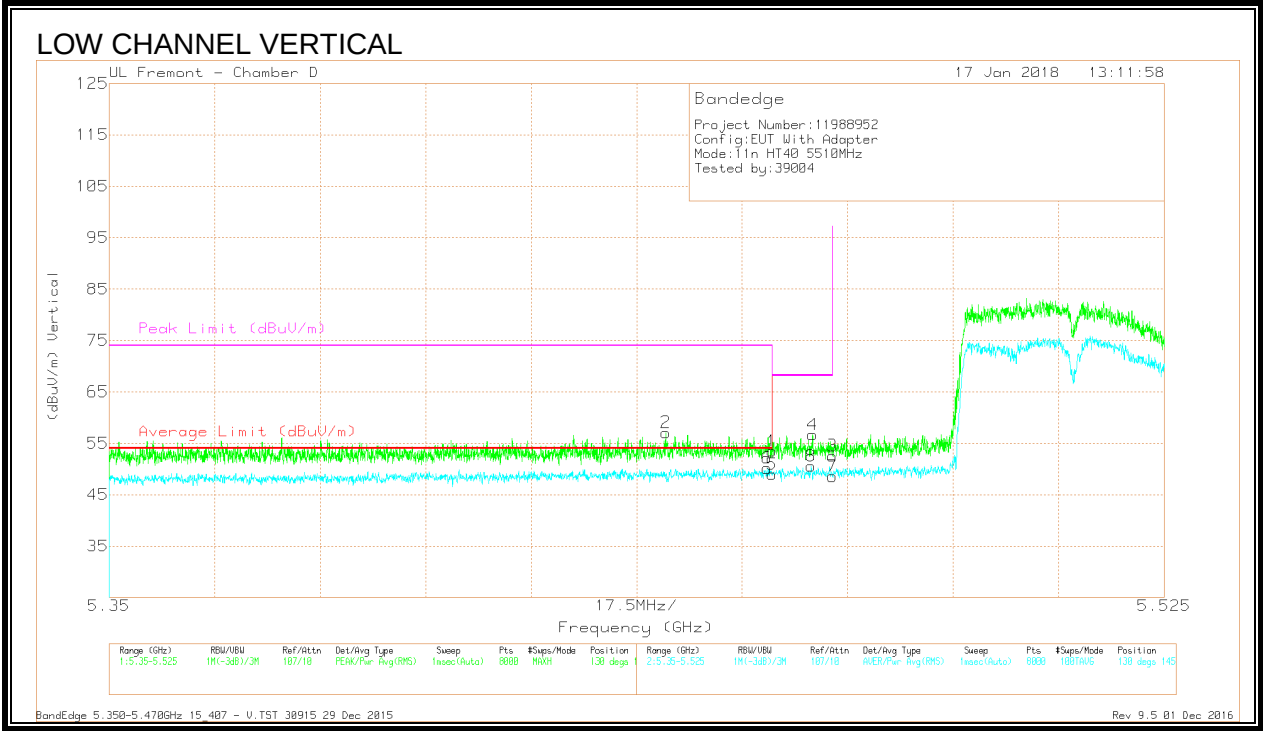
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cb/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	37.43	Pk	34.4	-17.5	0	54.33	-	-	74	-19.67	128	157	H
2	* 5.458	45.11	Pk	34.4	-17.6	0	61.91	-	-	74	-12.09	128	157	H
5	* 5.46	29.85	RMS	34.4	-17.5	3.08	49.83	54	-4.17	-	-	128	157	H
6	* 5.46	31.54	RMS	34.4	-17.5	3.08	51.52	54	-2.48	-	-	128	157	H
4	5.467	45.25	Pk	34.4	-17.5	0	62.15	-	-	68.2	-6.05	128	157	H
3	5.47	41.17	Pk	34.4	-17.5	0	58.07	-	-	68.2	-10.13	128	157	H
7	5.47	32.08	RMS	34.4	-17.5	3.08	52.06	-	-	-	-	128	157	H
8	5.47	34.02	RMS	34.4	-17.5	3.08	54	-	-	-	-	128	157	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection



Trace Markers

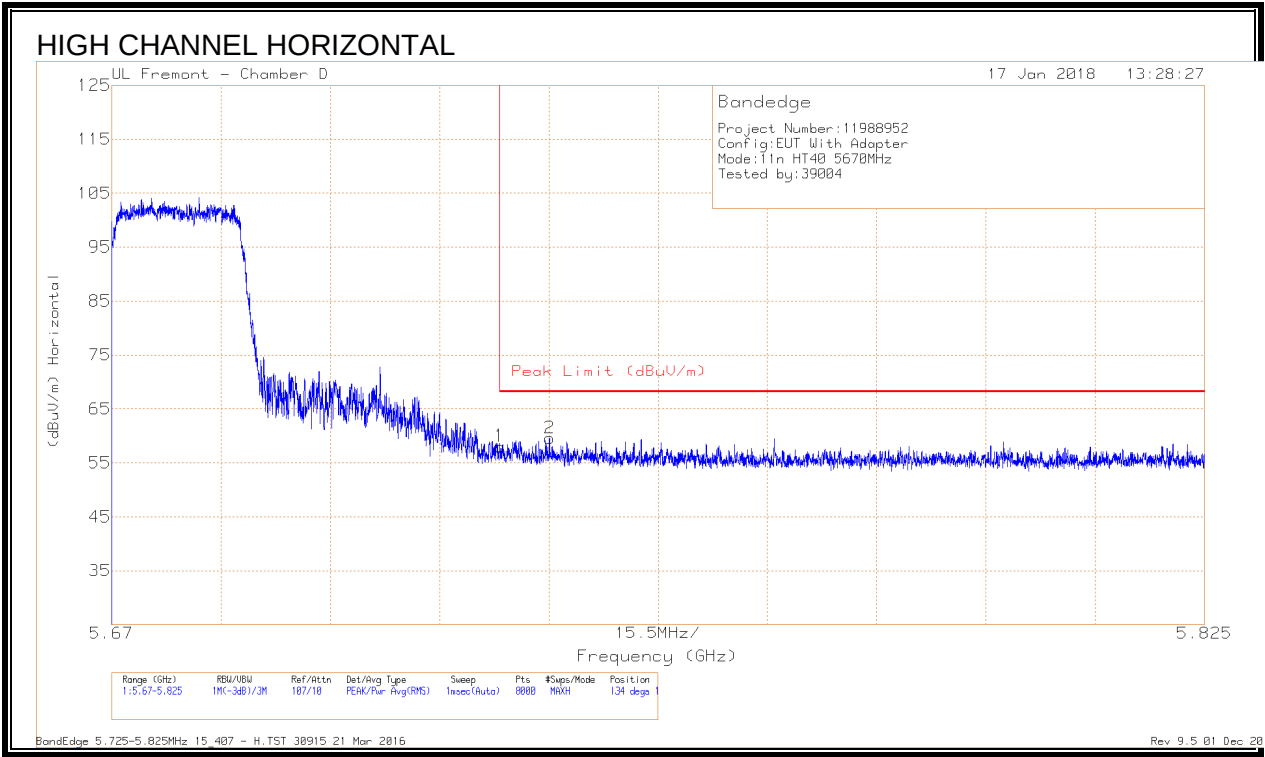
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cb/Fbr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 5.46	36.6	Pk	34.4	-17.5	0	53.5	-	-	74	-20.5	130	145	V
2	* 5.442	40.38	Pk	34.4	-17.7	0	57.08	-	-	74	-16.92	130	145	V
5	* 5.46	28.99	RMS	34.4	-17.5	3.08	48.97	54	-5.03	-	-	130	145	V
6	* 5.459	30.17	RMS	34.4	-17.5	3.08	50.15	54	-3.85	-	-	130	145	V
8	5.466	30.56	RMS	34.4	-17.5	3.08	50.54	-	-	-	-	130	145	V
4	5.467	39.76	Pk	34.4	-17.5	0	56.66	-	-	68.2	-11.54	130	145	V
3	5.47	35.64	Pk	34.4	-17.5	0	52.54	-	-	68.2	-15.66	130	145	V
7	5.47	28.6	RMS	34.4	-17.5	3.08	48.58	-	-	-	-	130	145	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

RESTRICTED BANDEGE (HIGH CHANNEL)

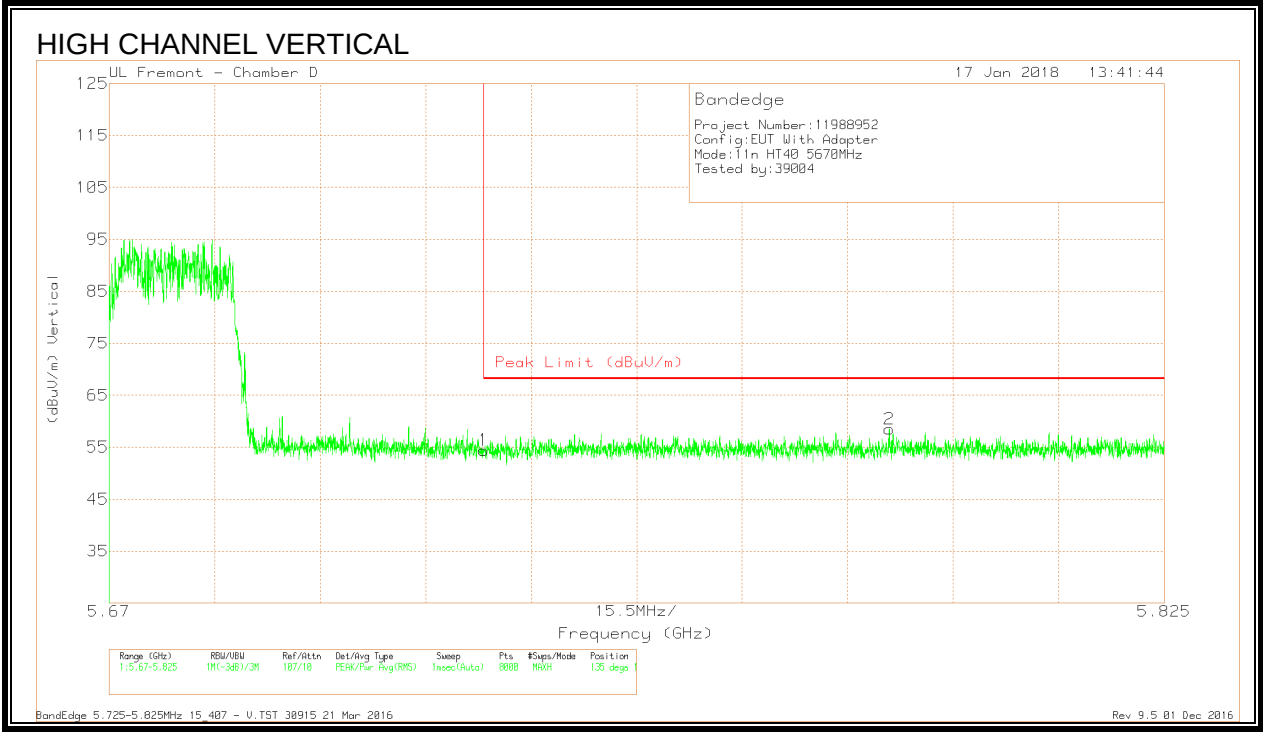


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	40.36	Pk	34.8	-17.1	0	58.06	68.2	-10.14	134	148	H
2	5.732	41.9	Pk	34.8	-17.1	0	59.6	68.2	-8.6	134	148	H

Pk - Peak detector

BandEdge 5.725-5.825MHz 15_407 - H.TST 30915 21 Mar 2016



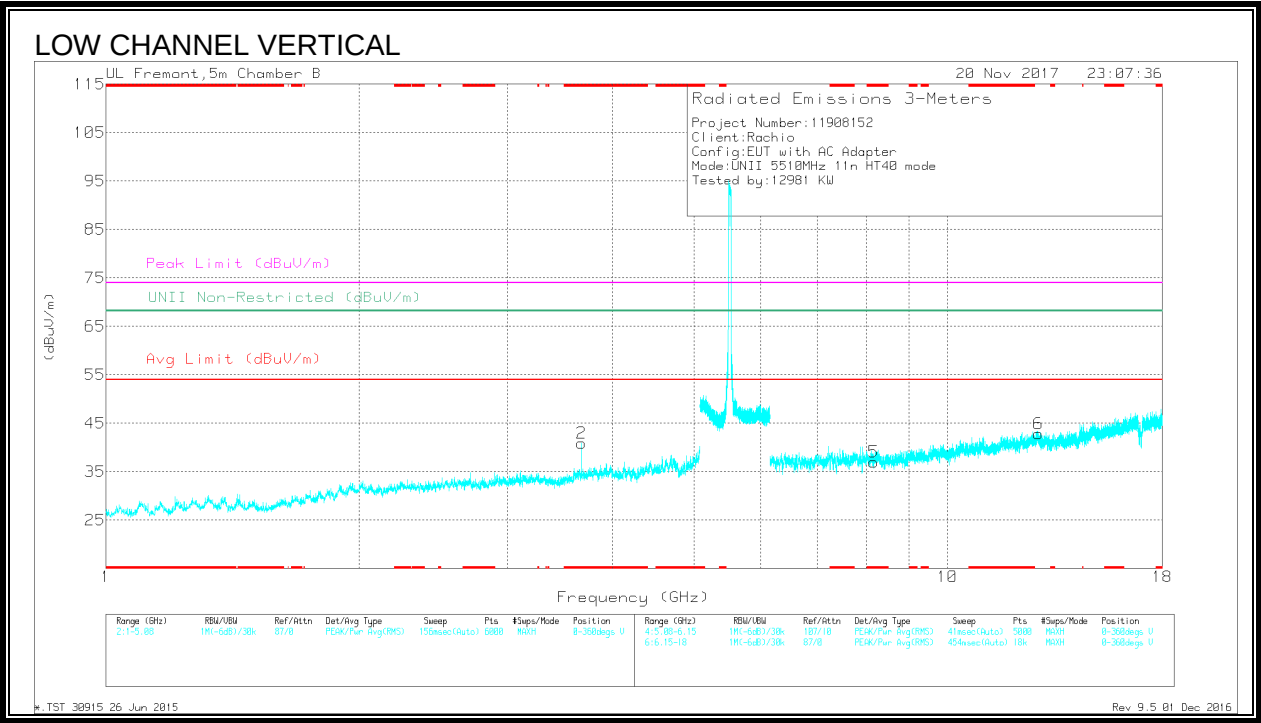
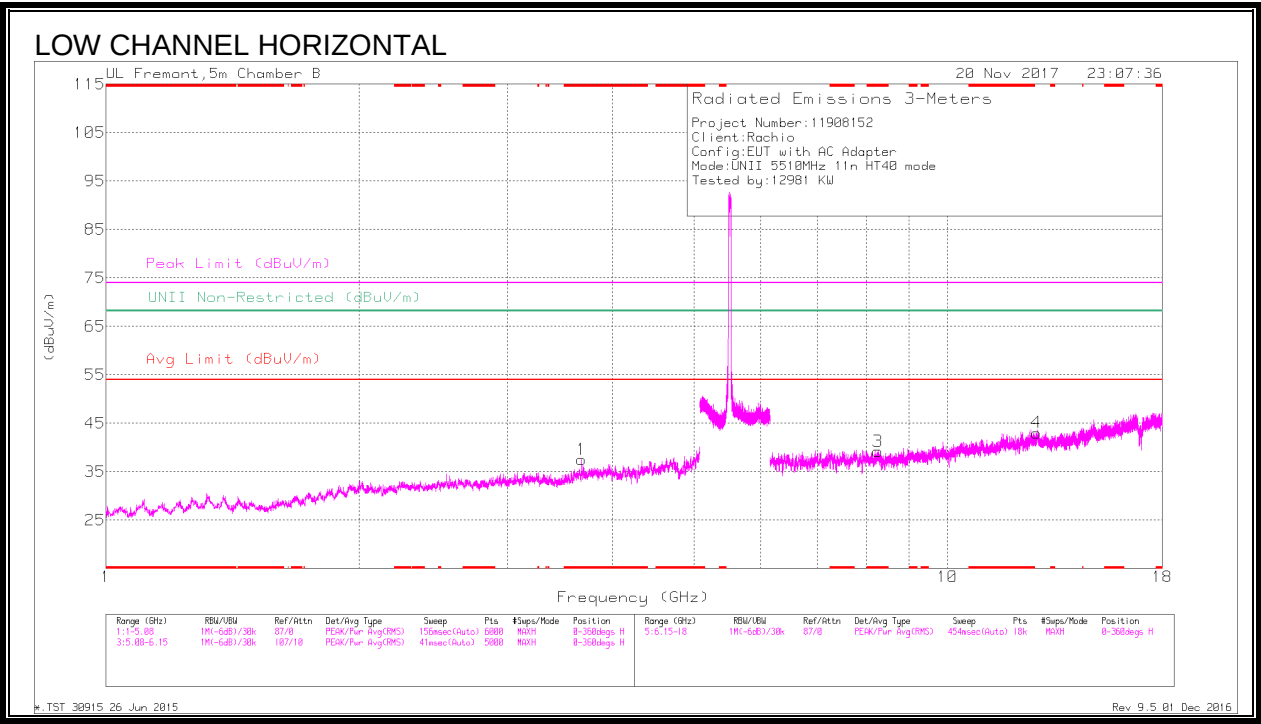
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/Par d (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	36.73	Pk	34.8	-17.1	0	54.43	68.2	-13.77	135	150	V
2	5.785	40.91	Pk	34.7	-17.1	0	58.51	68.2	-9.69	135	150	V

Pk - Peak detector

BandEdge 5.725-5.825MHz 15_407 - V.TST 30915 21 Mar 2016

HARMONICS AND SPURIOUS EMISSIONS



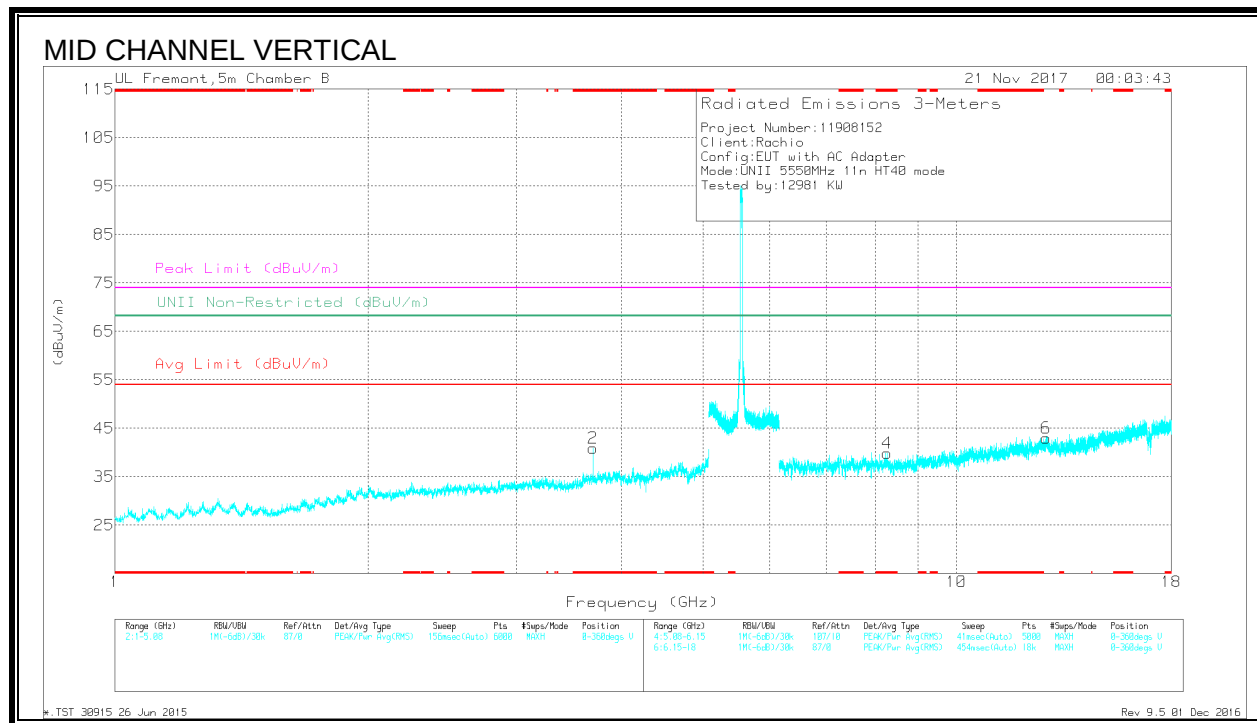
Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Ch/Flt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Limit Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 3.673	40.9	PK-U	33.2	-30.7	0	43.4	-	-	74	-30.6	-	-	282	214	H
	* 3.673	32.75	ADR	33.2	-30.7	3.08	38.33	54	-15.67	-	-	-	-	282	214	H
2	* 3.673	40.94	PK-U	33.2	-30.7	0	43.50	-	-	74	-30.56	-	-	250	235	V
	* 3.673	30.56	ADR	33.2	-30.7	3.08	36.08	54	-17.92	-	-	-	-	250	235	V
3	* 8.266	35.33	PK-U	36.1	-25.6	0	45.83	-	-	74	-28.17	-	-	179	259	H
	* 8.266	23.72	ADR	36.1	-25.6	3.08	37.30	54	-16.70	-	-	-	-	179	259	H
5	* 8.173	35.5	PK-U	36	-26.7	0	44.8	-	-	74	-29.2	-	-	147	224	V
	* 8.174	22.82	ADR	36	-26.7	3.08	35.20	54	-18.80	-	-	-	-	147	224	V
4	12.77	32.01	PK-U	39.4	-21.3	0	50.11	-	-	-	-	68.2	-18.09	110	122	H
6	12.83	32.14	PK-U	39.4	-22.1	0	49.44	-	-	-	-	68.2	-18.76	95	160	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



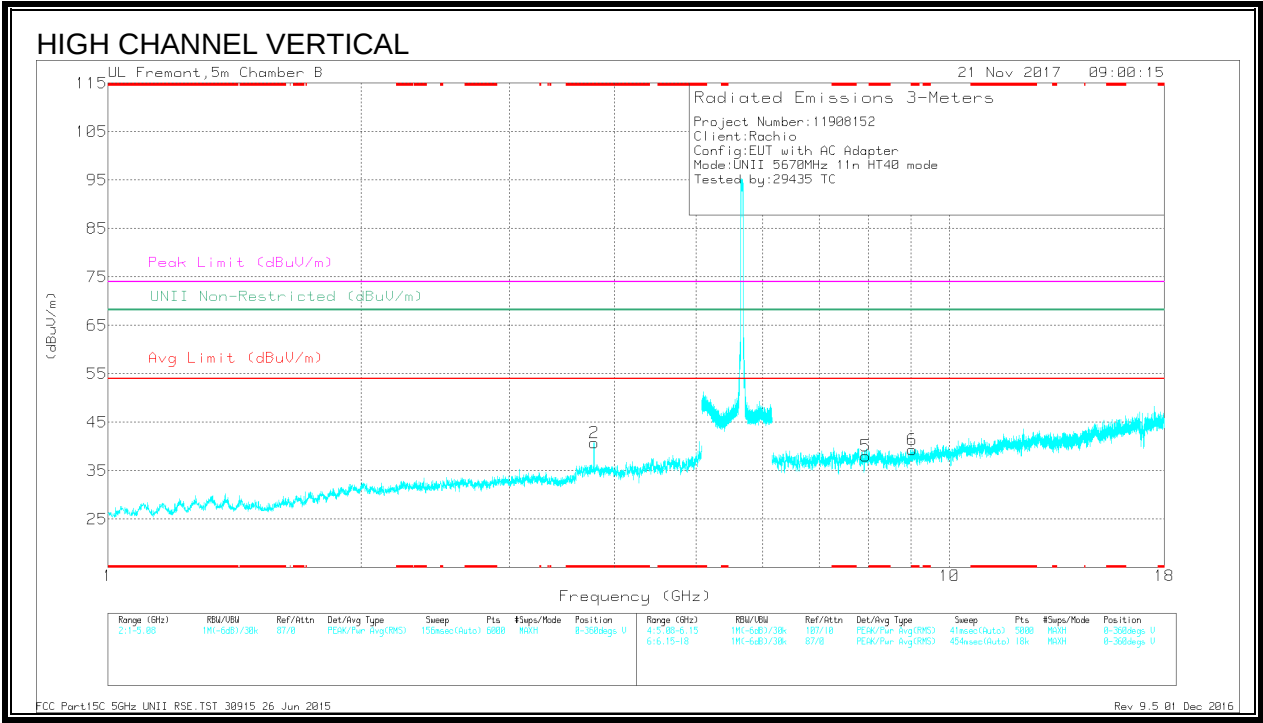
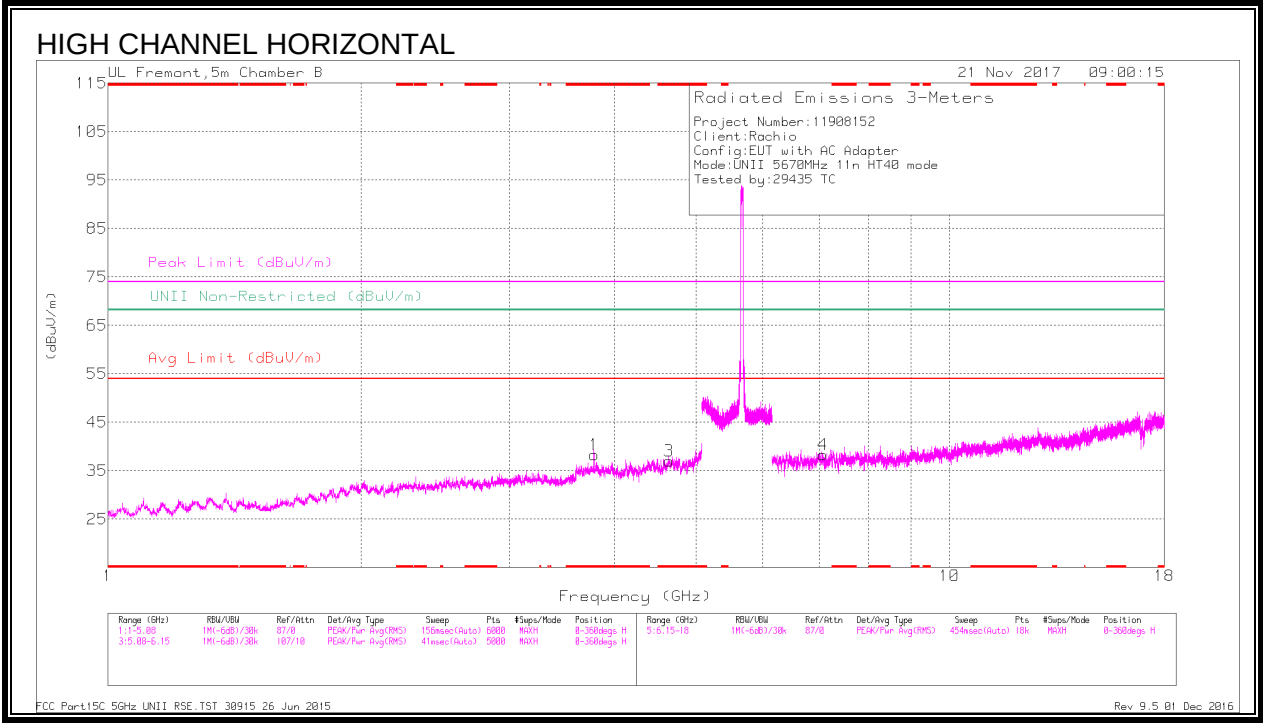
Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Ch/Flt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Limit Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (m)	Height (cm)	Polarity
1	* 3.7	40.54	PK-U	33.3	-30.6	0	43.24	-	-	74	-30.76	-	-	77	167	H
	* 3.7	32.03	ADR	33.3	-30.6	3.08	37.81	54	-16.19	-	-	-	-	77	167	H
2	* 3.7	39.03	PK-U	33.3	-30.6	0	41.73	-	-	74	-32.27	-	-	108	249	V
	* 3.7	27.27	ADR	33.3	-30.6	3.08	33.05	54	-20.95	-	-	-	-	108	249	V
3	* 8.288	35.16	PK-U	36.1	-25.9	0	45.36	-	-	74	-28.64	-	-	122	155	H
	* 8.289	23.2	ADR	36.1	-25.9	3.08	36.48	54	-17.52	-	-	-	-	122	155	H
4	* 8.271	35.19	PK-U	36.1	-25.6	0	45.69	-	-	74	-28.31	-	-	289	181	V
	* 8.271	23.46	ADR	36.1	-25.6	3.08	37.04	54	-16.96	-	-	-	-	289	181	V
5	12.774	31.91	PK-U	39.4	-21.2	0	50.11	-	-	-	-	68.2	-18.09	246	174	H
6	12.776	31.85	PK-U	39.4	-21.3	0	49.95	-	-	-	-	68.2	-18.25	155	152	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF TBS3 (dB/m)	Amp/Ch/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Feet)	Height (cm)	Polarity
1	* 3.78	35.61	Pk	33.5	-30.8	0	38.31	-	-	74	-35.69	-	-	0-360	102	H
3	* 4.64	31.02	Pk	34.3	-28.3	0	37.02	-	-	74	-36.98	-	-	0-360	199	H
2	* 3.78	38.1	Pk	33.5	-30.8	0	40.8	-	-	74	-33.2	-	-	0-360	200	V
6	* 9.033	28.01	Pk	36.3	-25	0	39.31	-	-	74	-34.69	-	-	0-360	200	V
4	7.074	29.29	Pk	35.9	-26.9	0	38.29	-	-	-	-	68.2	-29.91	0-360	199	H
5	7.953	28.95	Pk	36	-26.9	0	38.05	-	-	-	-	68.2	-30.15	0-360	102	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF TBS3 (dB/m)	Amp/Ch/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Feet)	Height (cm)	Polarity
* 3.78	41.98	PK-U	33.5	-30.7	0	44.78	-	-	74	-29.22	-	-	93	112	H
* 3.78	33.17	ADR	33.5	-30.7	3.08	39.06	54	-14.95	-	-	-	-	93	112	H
* 4.641	37.77	PK-U	34.3	-28.3	0	43.77	-	-	74	-30.23	-	-	331	357	H
* 4.64	25.99	ADR	34.3	-28.3	3.08	35.07	54	-18.93	-	-	-	-	331	357	H
* 3.78	43.2	PK-U	33.5	-30.7	0	46	-	-	74	-28	-	-	217	204	V
* 3.78	37.06	ADR	33.5	-30.7	3.08	42.94	54	-11.06	-	-	-	-	217	204	V
* 9.031	34	PK-U	36.3	-25	0	45.3	-	-	74	-28.7	-	-	5	400	V
* 9.034	21.43	ADR	36.3	-25	3.08	35.81	54	-18.19	-	-	-	-	5	400	V

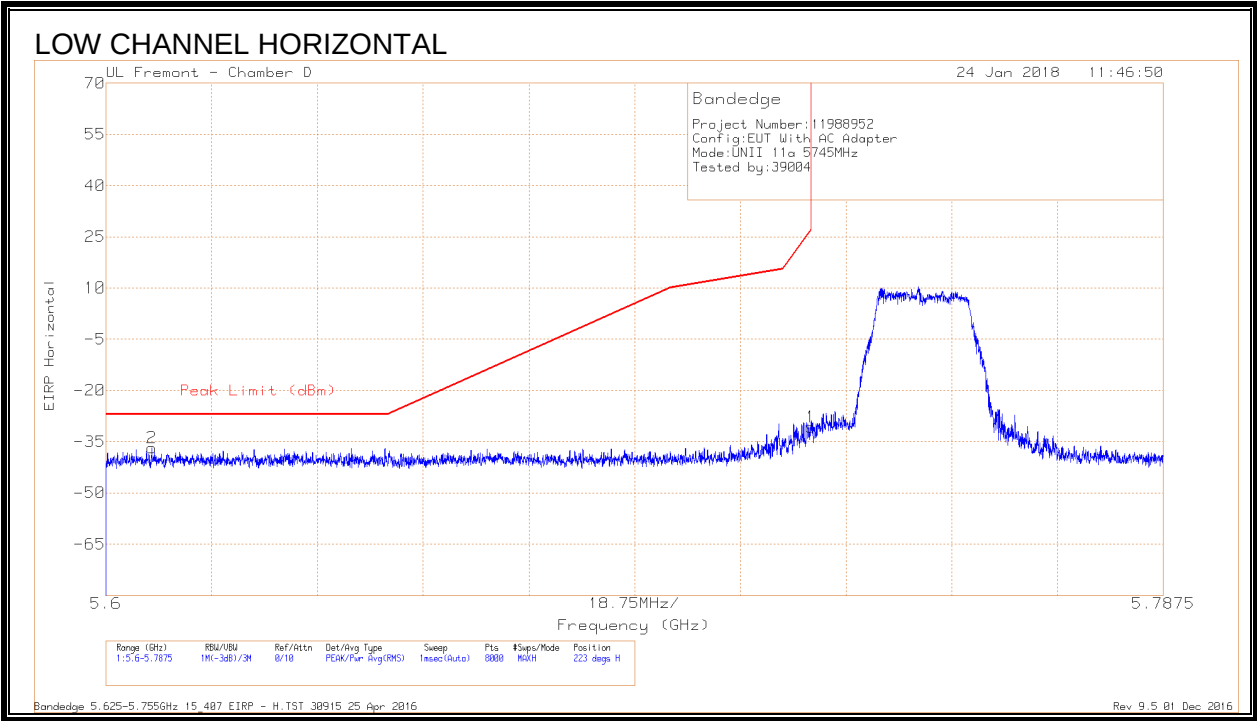
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.1.10. 11a MODE IN THE 5.8GHz BAND

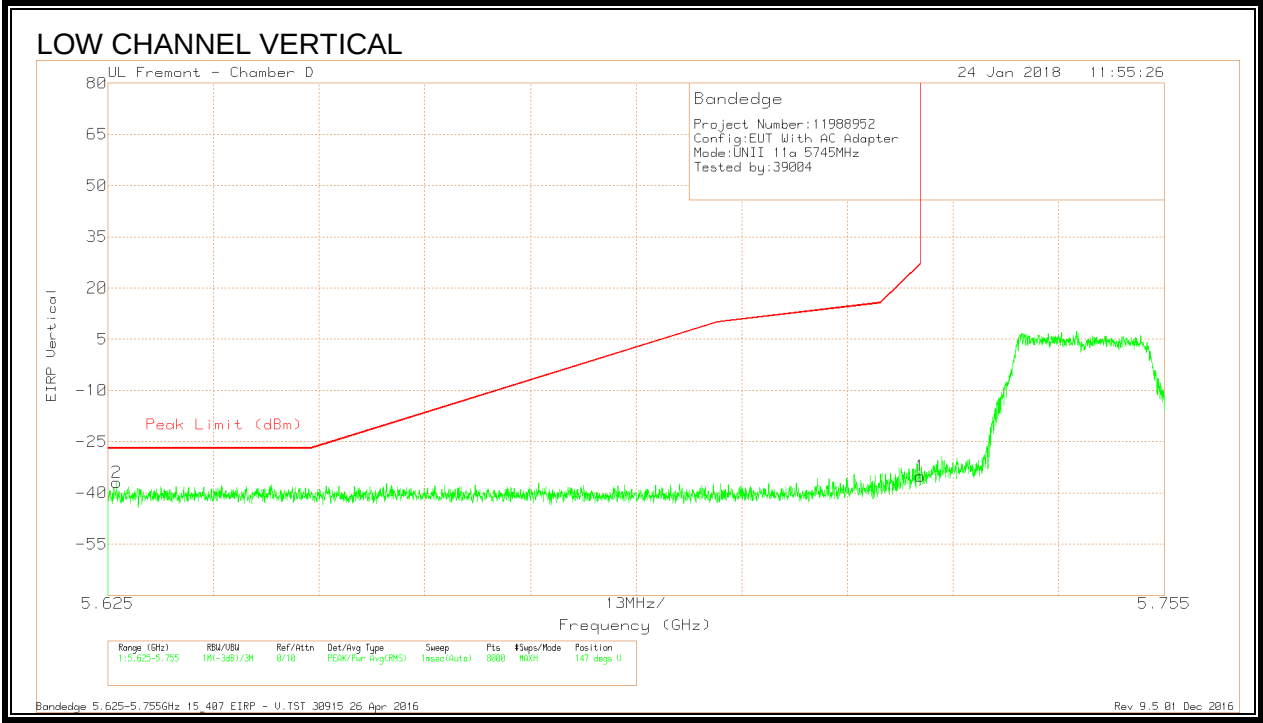
RESTRICTED BANDEDGE (LOW CHANNEL)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cb/Ftr/P ad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.608	-66.08	Pk	34.7	-17.3	11.8	0	-36.88	-27	-9.88	223	239	H
1	5.725	-60.28	Pk	34.8	-17.1	11.8	0	-30.78	26.96	-57.74	223	239	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

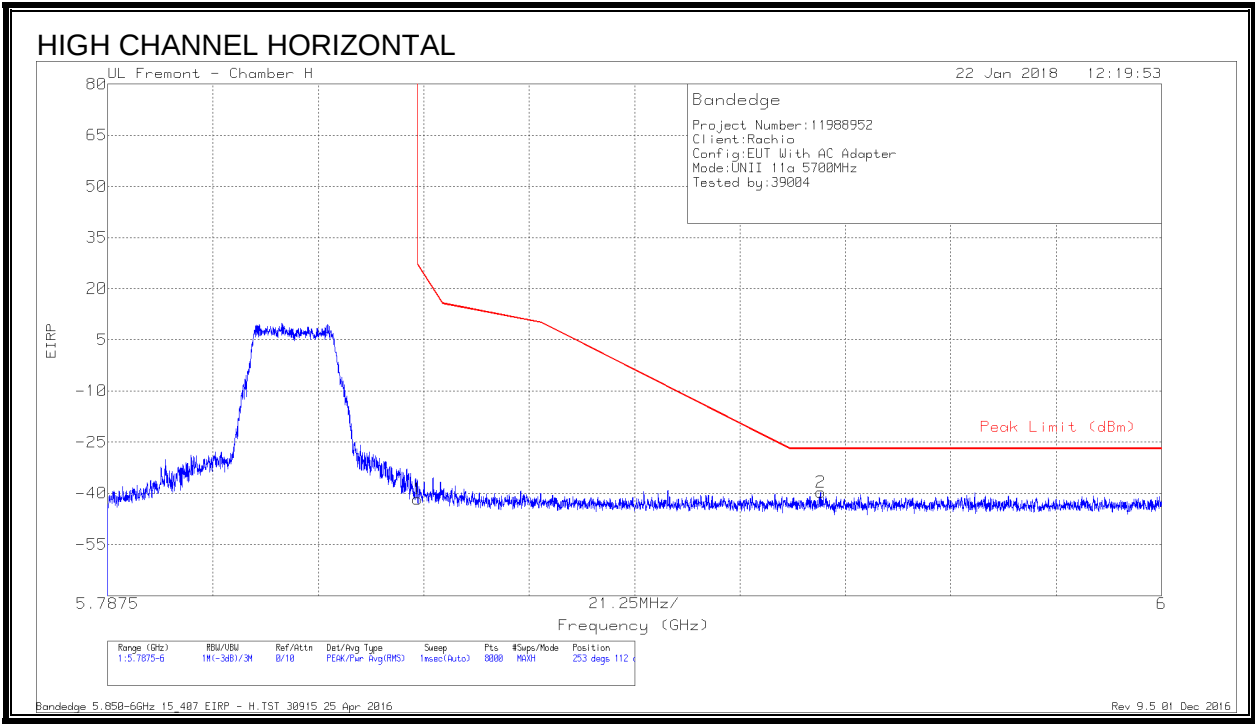


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cb/Ftr/P ad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.626	-66.26	Pk	34.7	-17.2	11.8	0	-36.96	-27	-9.96	147	240	V
1	5.725	-64.67	Pk	34.8	-17.1	11.8	0	-35.17	27	-62.17	147	240	V

Pk - Peak detector

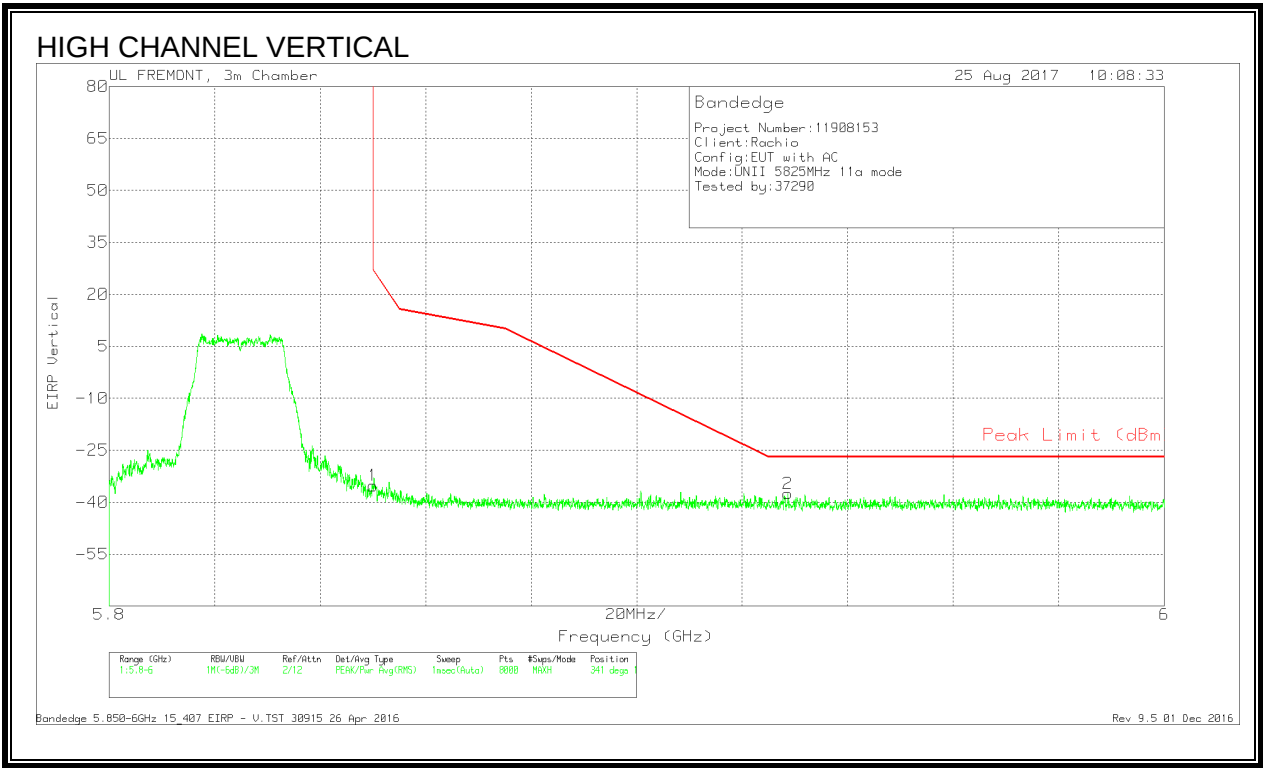
RESTRICTED BANDEDGE (HIGH CHANNEL)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb/Ftr/P ad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-65.64	Pk	35.4	-23.3	11.8	0	-41.74	26.98	-68.72	253	112	H
2	5.931	-63.94	Pk	35.5	-23.1	11.8	0	-39.74	-27	-12.74	253	112	H

Pk - Peak detector

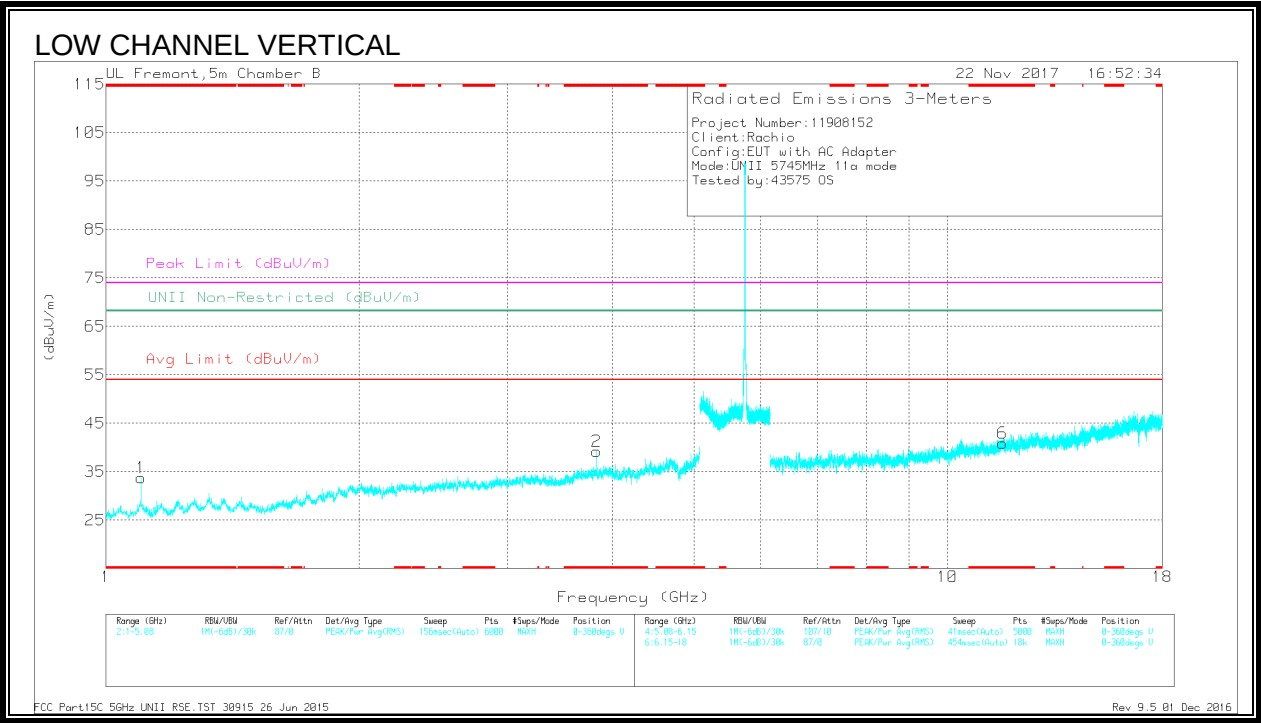
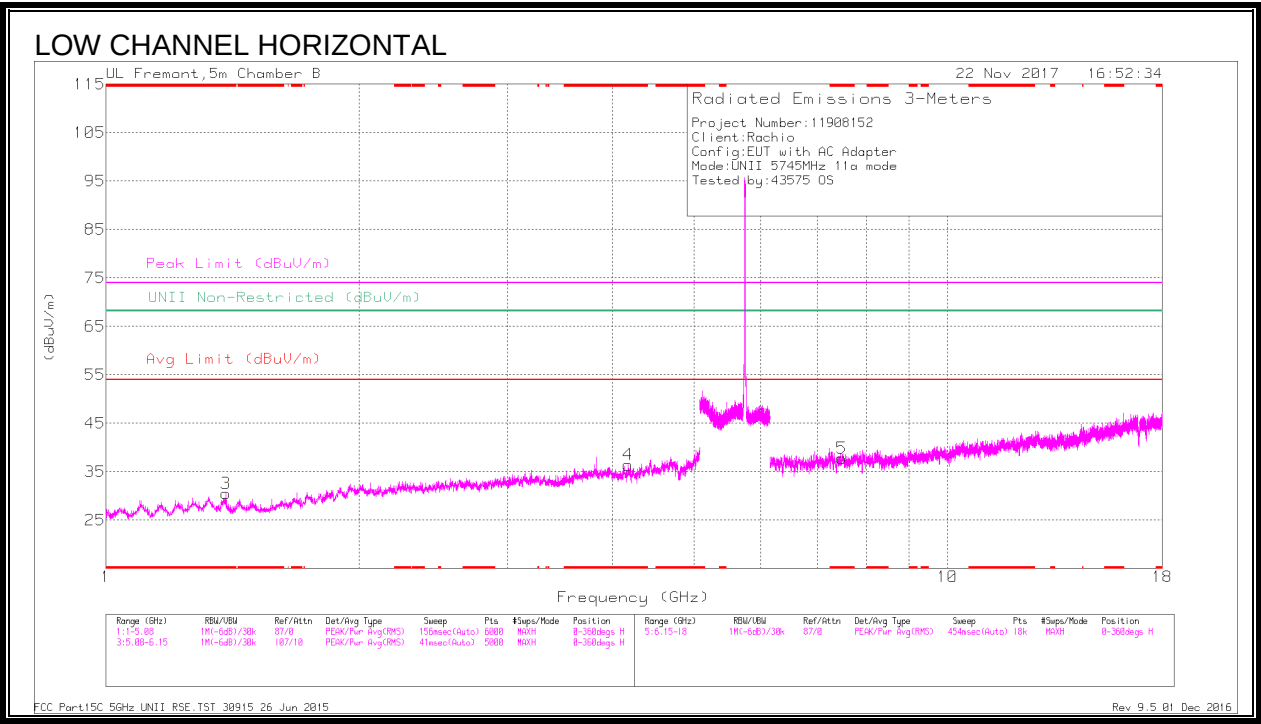


Trace Markers

Marker	Frequenc y (GHz)	Meter Reading (dBm)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Conversion Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-63.23	Pk	34.8	-18.6	11.8	-35.23	26.99	-62.22	341	100	V
2	5.929	-65.94	Pk	35	-18.4	11.8	-37.54	-27	-10.54	341	100	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS



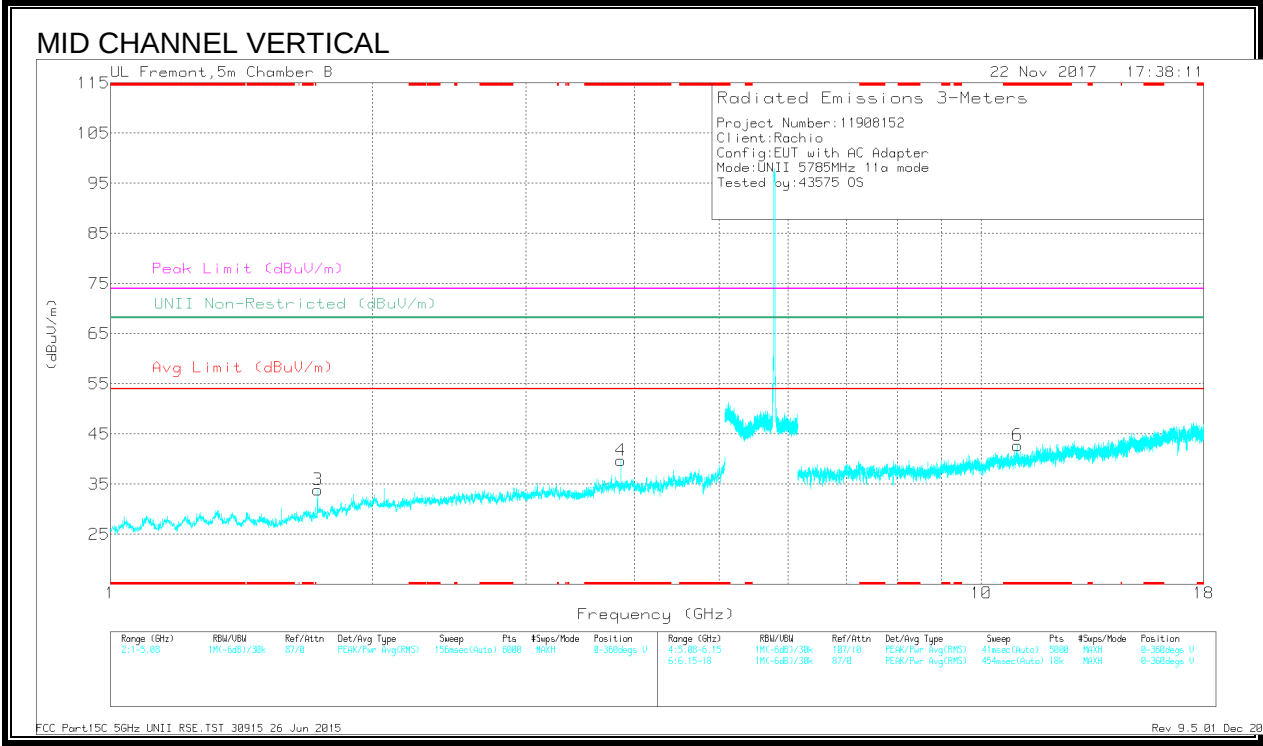
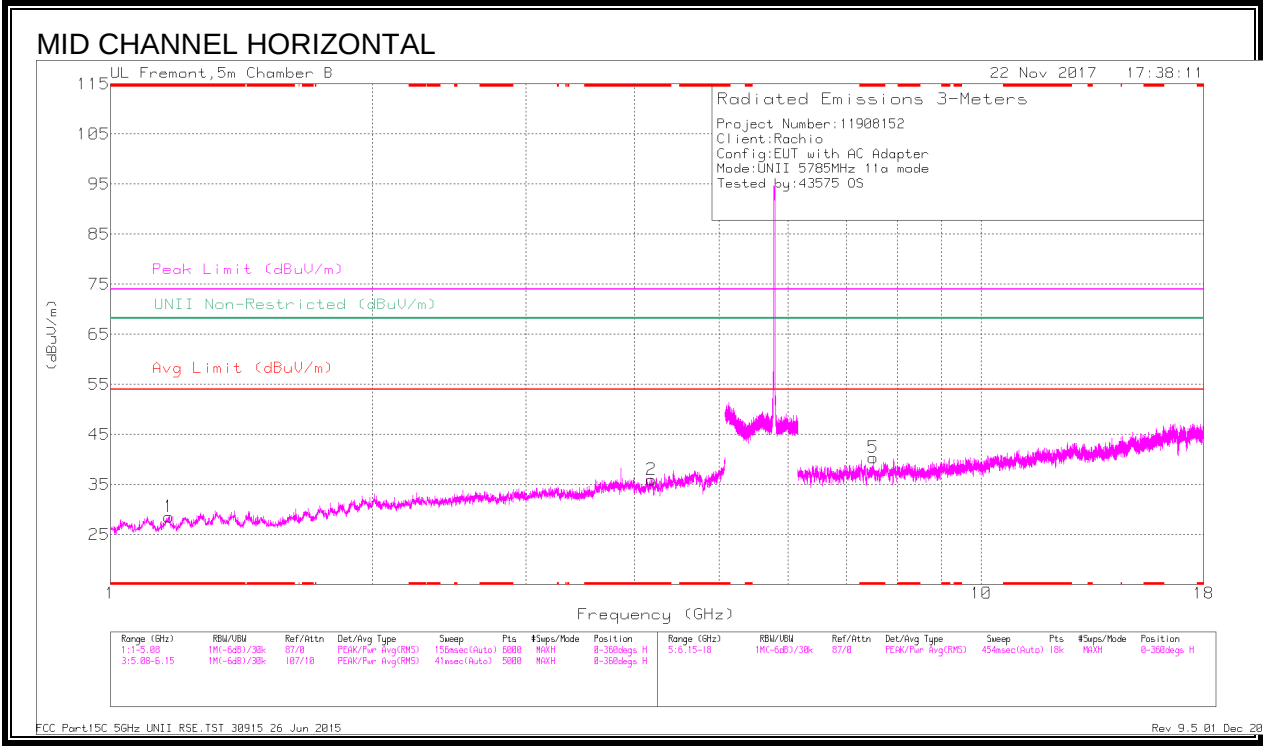
Radiated Emissions

	Frequency (GHz)	Meter Reading (dBuV)	Det	AF1863 (dB/m)	Amp/Cbl/Fbr/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
3	* 1.388	40.76	PK-U	28.3	-33.2	0	35.86	-	-	74	-38.14	-	-	157	293	H
	* 1.387	28.67	ADR	28.3	-33.2	.94	24.71	54	-29.29	-	-	-	-	157	293	H
	* 4.174	38.08	PK-U	33.4	-29.3	0	42.18	-	-	74	-31.82	-	-	16	248	H
4	* 4.176	26.3	ADR	33.4	-29.4	.94	31.24	54	-22.76	-	-	-	-	16	248	H
	* 1.1	41.76	PK-U	27.7	-33.9	0	35.56	-	-	74	-38.44	-	-	307	347	V
	* 1.101	29.56	ADR	27.7	-33.9	.94	24.30	54	-29.70	-	-	-	-	307	347	V
2	* 3.83	42.97	PK-U	33.5	-30.7	0	45.77	-	-	74	-28.23	-	-	216	173	V
	* 3.83	36.37	ADR	33.5	-30.6	.94	40.21	54	-13.79	-	-	-	-	216	173	V
	* 7.486	35.56	PK-U	36	-26.9	0	44.66	-	-	74	-29.34	-	-	91	173	H
5	* 7.484	23.11	ADR	36	-26.8	.94	33.25	54	-20.75	-	-	-	-	91	173	H
	* 11.629	32.08	PK-U	38.3	-22.1	0	48.28	-	-	74	-25.72	-	-	124	111	V
	* 11.627	18.43	ADR	38.3	-22.1	.94	35.57	54	-18.43	-	-	-	-	124	111	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



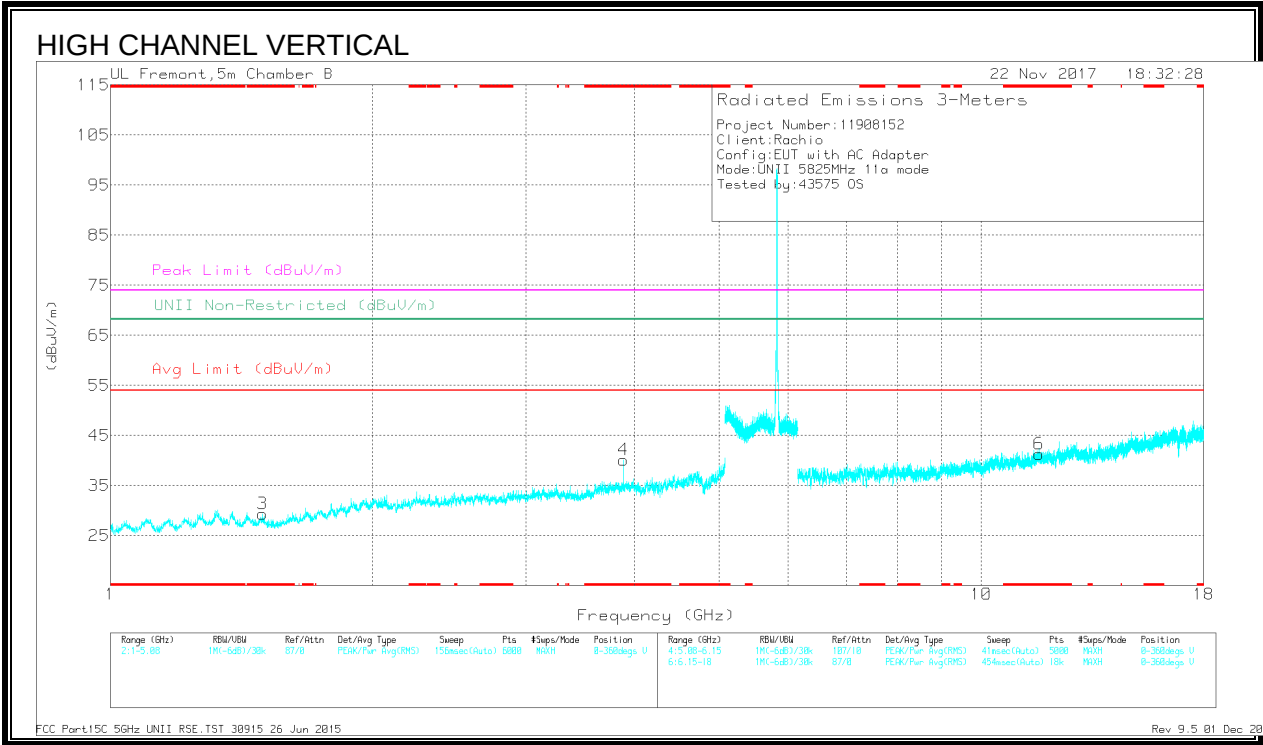
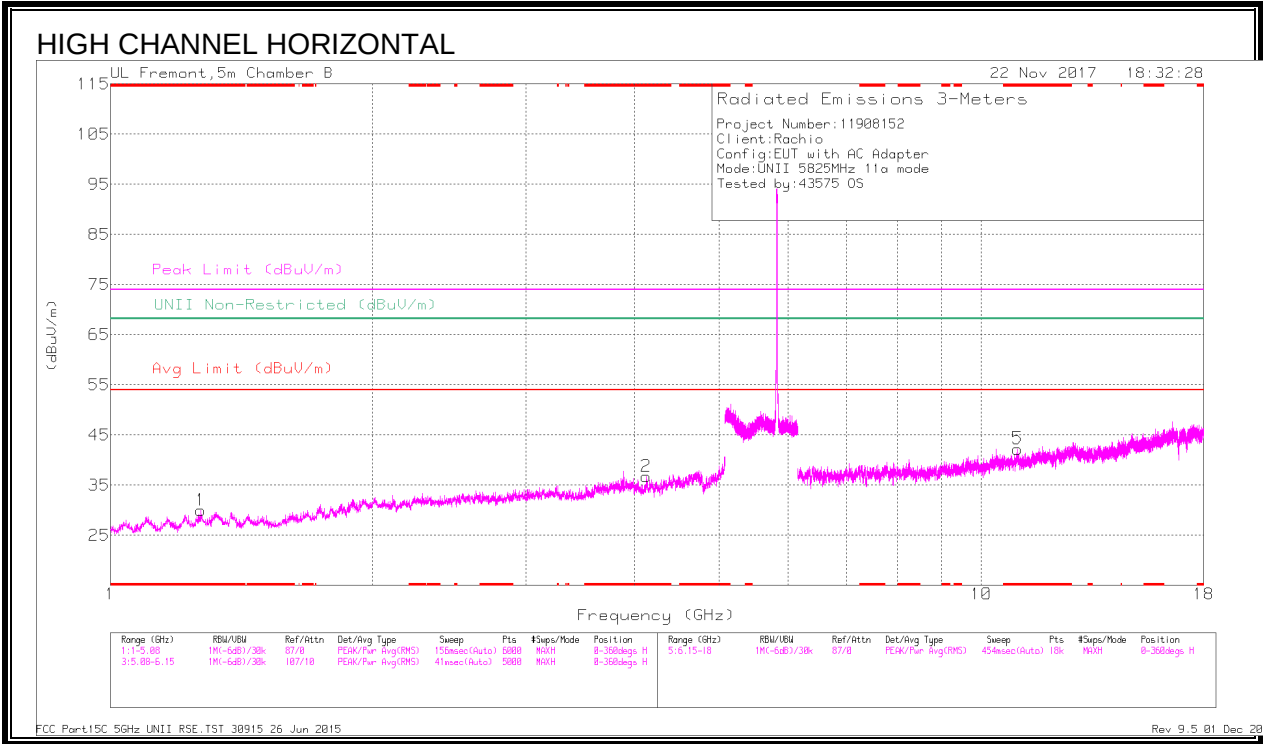
Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1863 (dB/m)	Amp/Ch/FHz/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)	Altitude (Dops)	Height (cm)	Polarity
1	* 1.17	41.04	PK-U	27.7	-33.9	0	34.84	-	-	74	-39.16	-	-	153	155	H
	* 1.166	29.36	ADR	27.6	-33.9	.94	24.00	54	-30.00	-	-	-	-	153	155	H
2	* 4.175	38.99	PK-U	33.4	-29.4	0	42.99	-	-	74	-31.01	-	-	23	205	H
	* 4.178	26.43	ADR	33.4	-29.5	.94	31.27	54	-22.73	-	-	-	-	23	205	H
4	* 3.856	42.14	PK-U	33.5	-30.8	0	44.84	-	-	74	-29.16	-	-	211	173	V
	* 3.857	35.55	ADR	33.5	-30.8	.94	39.19	54	-14.81	-	-	-	-	211	173	V
5	* 7.514	36.06	PK-U	36	-26.4	0	45.66	-	-	74	-28.34	-	-	275	341	H
	* 7.512	23.32	ADR	36	-26.5	.94	33.76	54	-20.24	-	-	-	-	275	341	H
6	* 10.997	31.31	PK-U	37.7	-21.6	0	47.41	-	-	74	-26.59	-	-	119	234	V
	* 10.998	18.44	ADR	37.7	-21.5	.94	35.58	54	-18.42	-	-	-	-	119	234	V
3	1.73	40.51	PK-U	29.4	-32.5	0	37.41	-	-	-	-	68.2	-30.79	148	400	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Ch/FHz/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	* 1.269	41.3	PK-U	28.8	-34.3	0	35.8	-	-	74	-38.2	-	-	355	357	H
	* 1.27	39.4	ADR	28.8	-34.3	.94	24.84	54	-29.16	-	-	-	-	355	357	H
2	* 4.12	38.67	PK-U	33.5	-30	0	42.17	-	-	74	-31.83	-	-	175	185	H
	* 4.124	26.83	ADR	33.4	-29.7	.94	31.47	54	-22.53	-	-	-	-	175	185	H
3	* 1.493	40.95	PK-U	28.2	-33.7	0	35.45	-	-	74	-38.55	-	-	356	139	V
	* 1.496	28.86	ADR	28.2	-33.7	.94	24.30	54	-29.70	-	-	-	-	356	139	V
4	* 3.883	42.36	PK-U	33.5	-30.6	0	45.26	-	-	74	-28.74	-	-	237	216	V
	* 3.883	35.33	ADR	33.5	-30.6	.94	39.17	54	-14.83	-	-	-	-	237	216	V
5	* 10.998	31.55	PK-U	37.7	-21.5	0	47.75	-	-	74	-26.25	-	-	160	210	H
	* 11	18.47	ADR	37.7	-21.5	.94	35.61	54	-18.39	-	-	-	-	160	210	H
6	* 11.649	32.58	PK-U	38.3	-22.2	0	48.68	-	-	74	-25.32	-	-	168	384	V
	* 11.649	18.8	ADR	38.3	-22.2	.94	35.84	54	-18.16	-	-	-	-	168	384	V

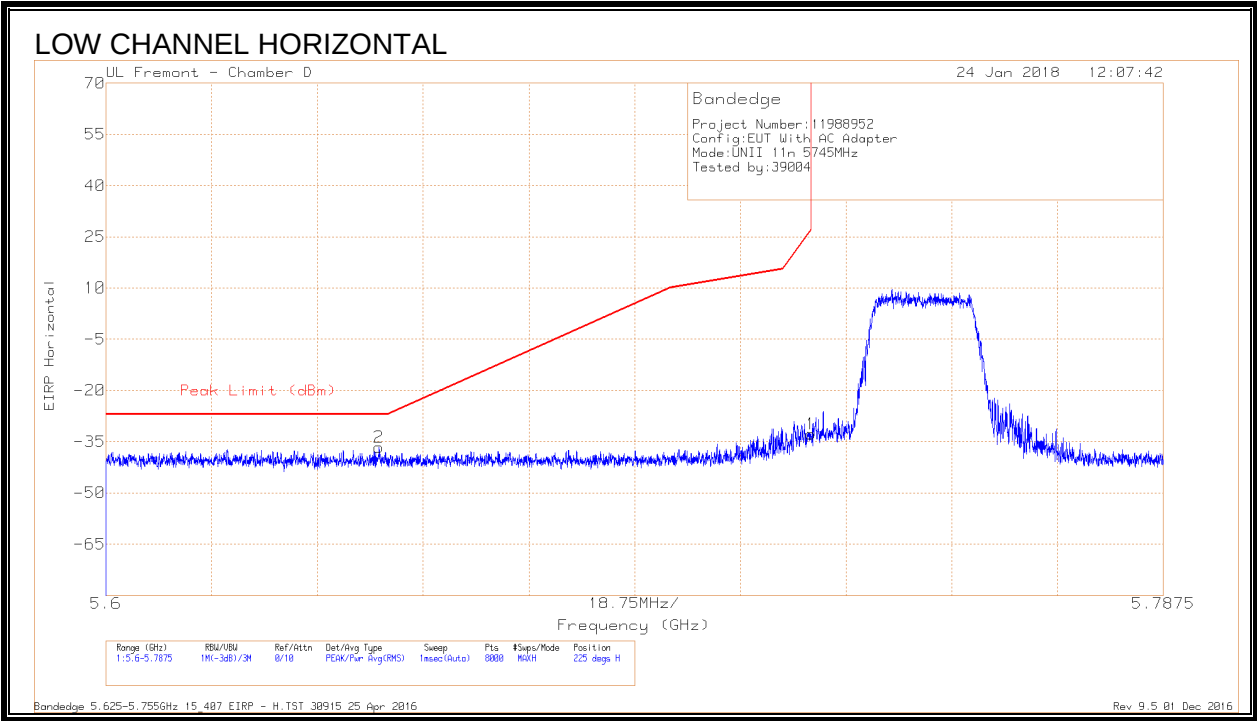
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.1.11. 11n HT20 MODE IN THE 5.8GHz BAND

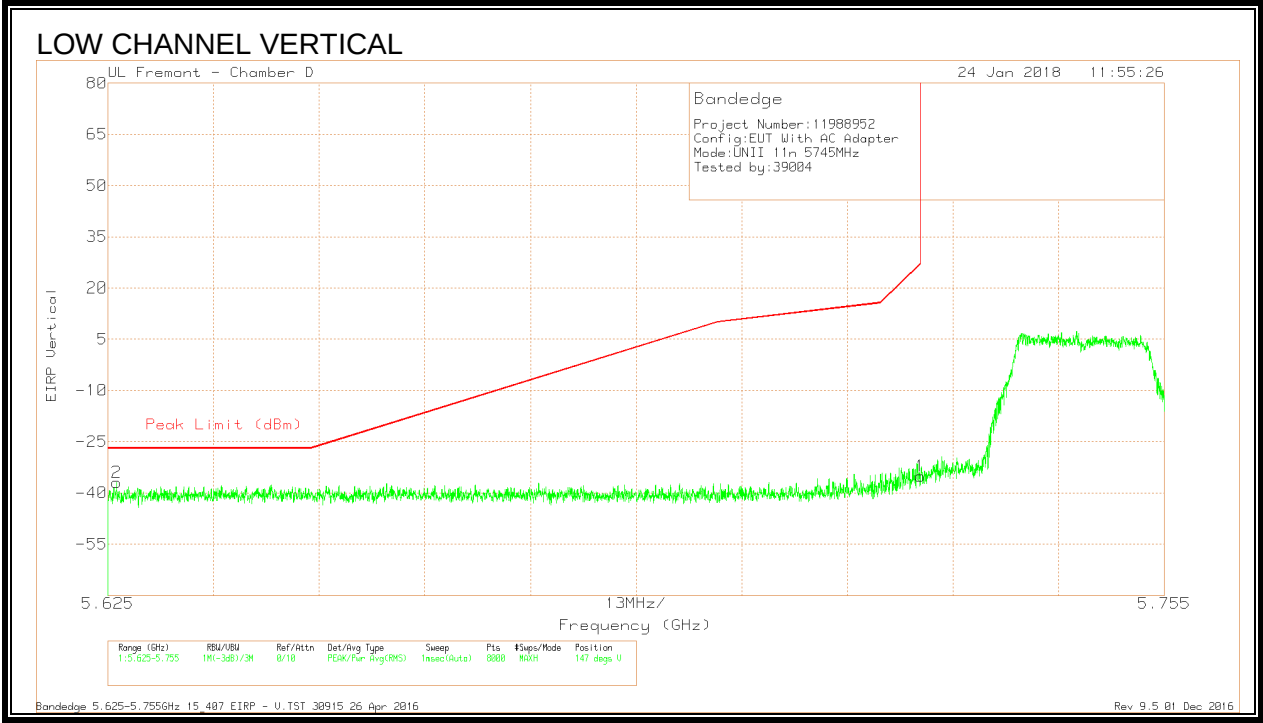
RESTRICTED BANDEDGE (LOW CHANNEL)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cb/Filtr/P ad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.648	-66.08	Pk	34.7	-17.1	11.8	0	-36.68	-27	-9.68	225	238	H
1	5.725	-62.32	Pk	34.8	-17.1	11.8	0	-32.82	26.96	-59.78	225	238	H

Pk - Peak detector

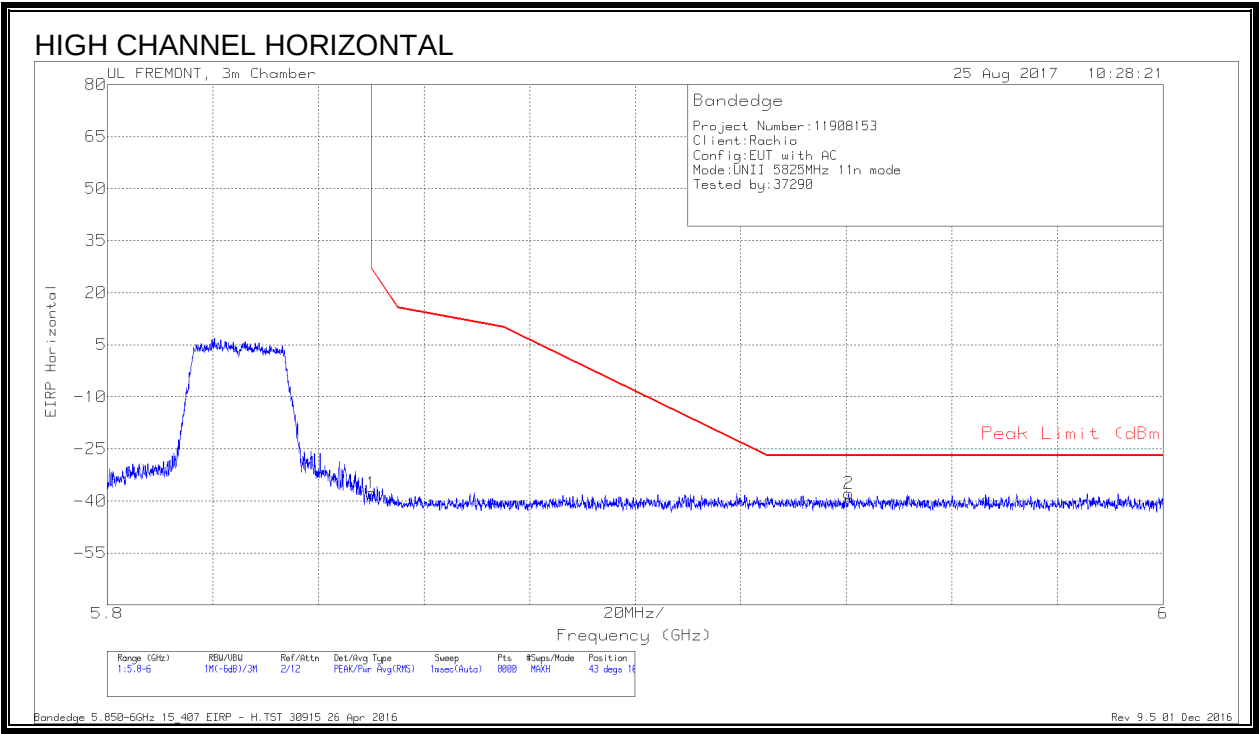


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cb/Rtr/P ad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.626	-66.26	Pk	34.7	-17.2	11.8	0	-36.96	-27	-9.96	147	240	V
1	5.725	-64.67	Pk	34.8	-17.1	11.8	0	-35.17	27	-62.17	147	240	V

Pk - Peak detector

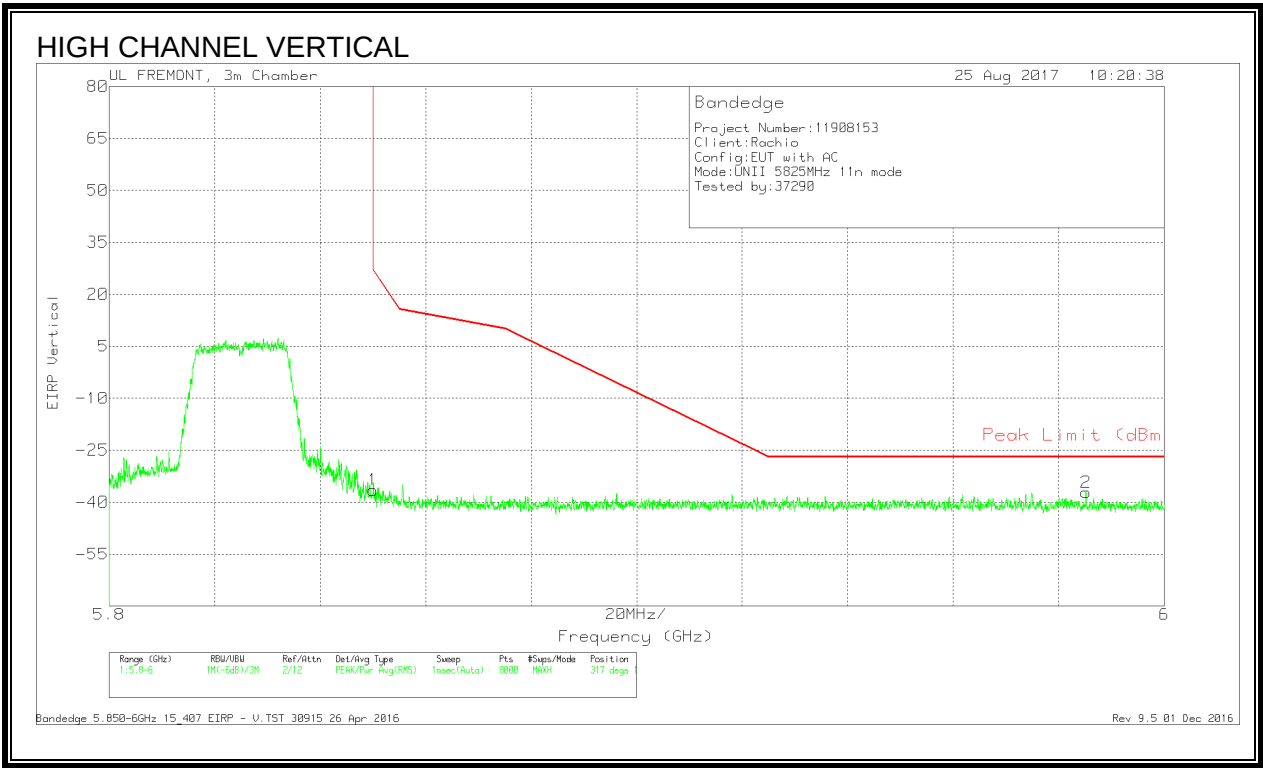
RESTRICTED BANDEDGE (HIGH CHANNEL)



Trace Markers

Marker	Frequenc y (GHz)	Meter Reading (dBm)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Conversion Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-65.74	Pk	34.8	-18.6	11.8	-37.74	26.99	-64.73	43	106	H
2	5.94	-66.3	Pk	35	-18.3	11.8	-37.8	-27	-10.8	43	106	H

Pk - Peak detector

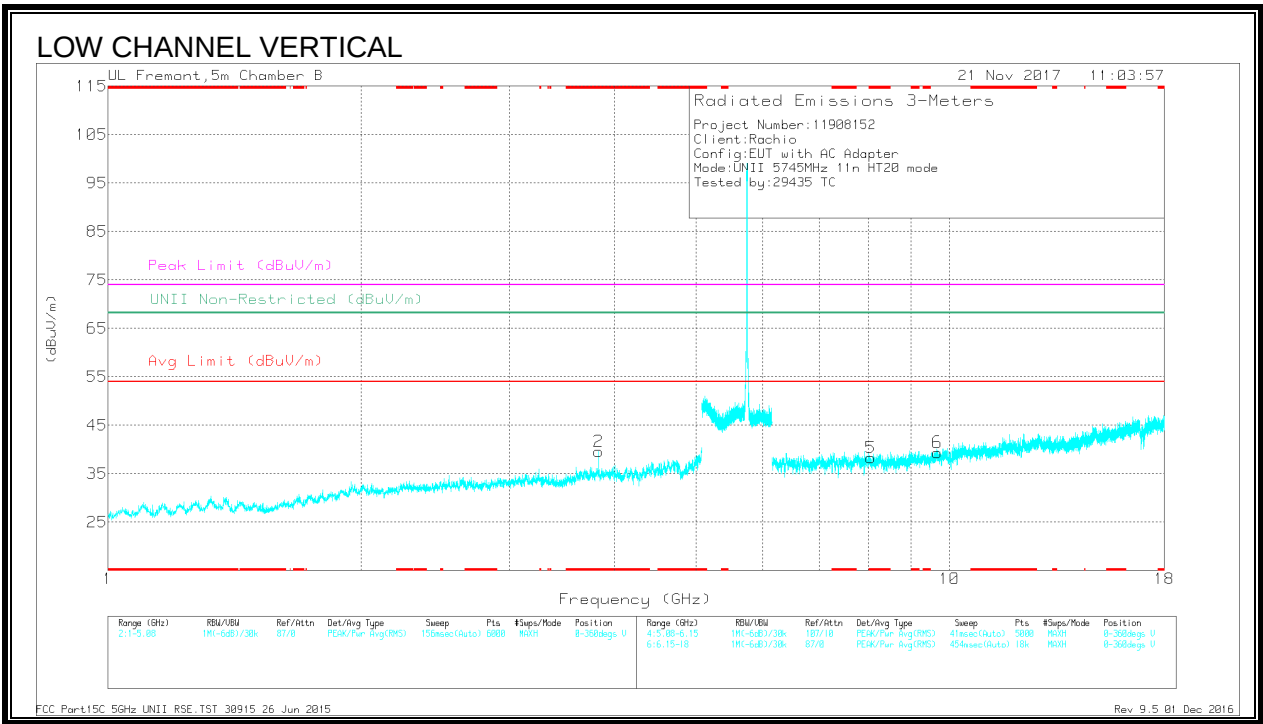
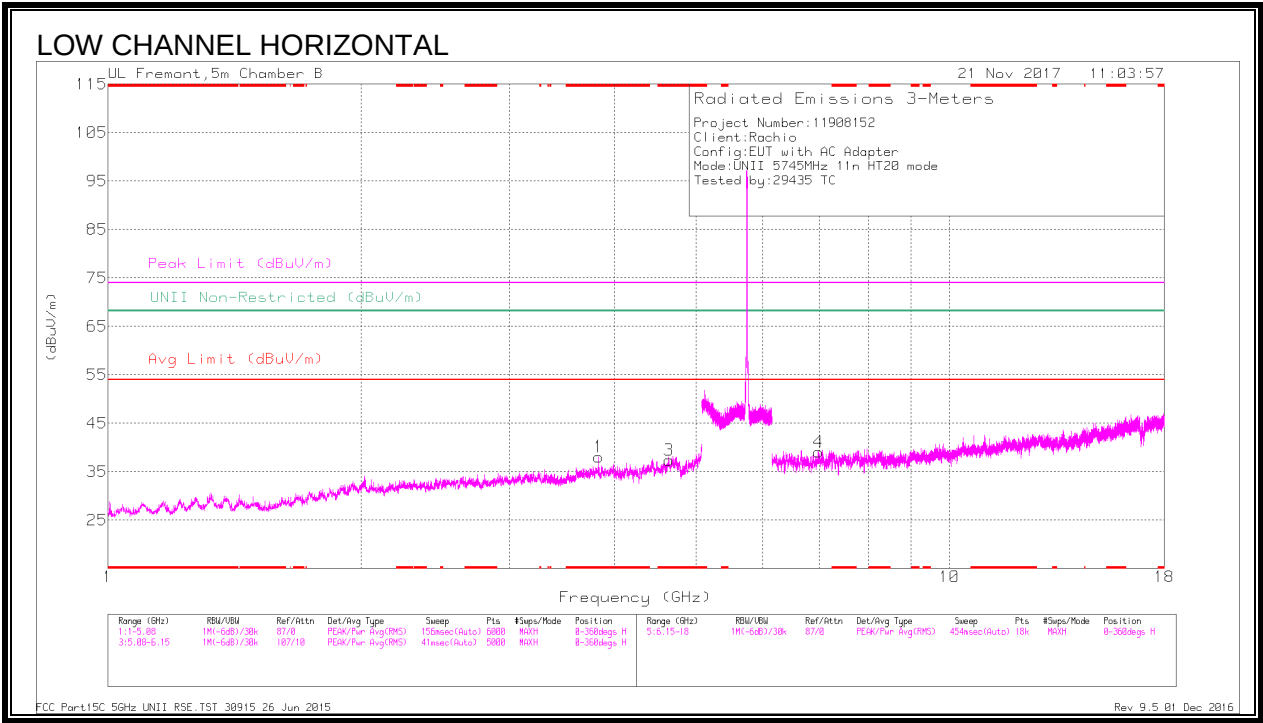


Trace Markers

Marker	Frequenc y (GHz)	Meter Reading (dBm)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Conversion Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-64.5	Pk	34.8	-18.6	11.8	-36.5	26.99	-63.49	317	100	V
2	5.985	-66.06	Pk	35.1	-18	11.8	-37.16	-27	-10.16	317	100	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF TBS3 (dB/m)	Amp/Ch/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 3.83	35.2	Pk	33.5	-30.6	0	38.1	-	-	74	-35.9	-	-	0-360	199	H
3	* 4.642	31.4	Pk	34.3	-28.3	0	37.4	-	-	74	-36.6	-	-	0-360	102	H
2	* 3.83	36.66	Pk	33.5	-30.6	0	39.56	-	-	74	-34.44	-	-	0-360	200	V
5	* 8.065	28.84	Pk	36	-26.5	0	38.34	-	-	74	-35.66	-	-	0-360	199	V
4	6.991	30.34	Pk	35.8	-27.1	0	39.04	-	-	-	-	68.2	-29.16	0-360	102	H
6	9.675	26.1	Pk	36.9	-23.6	0	39.4	-	-	-	-	68.2	-28.8	0-360	199	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

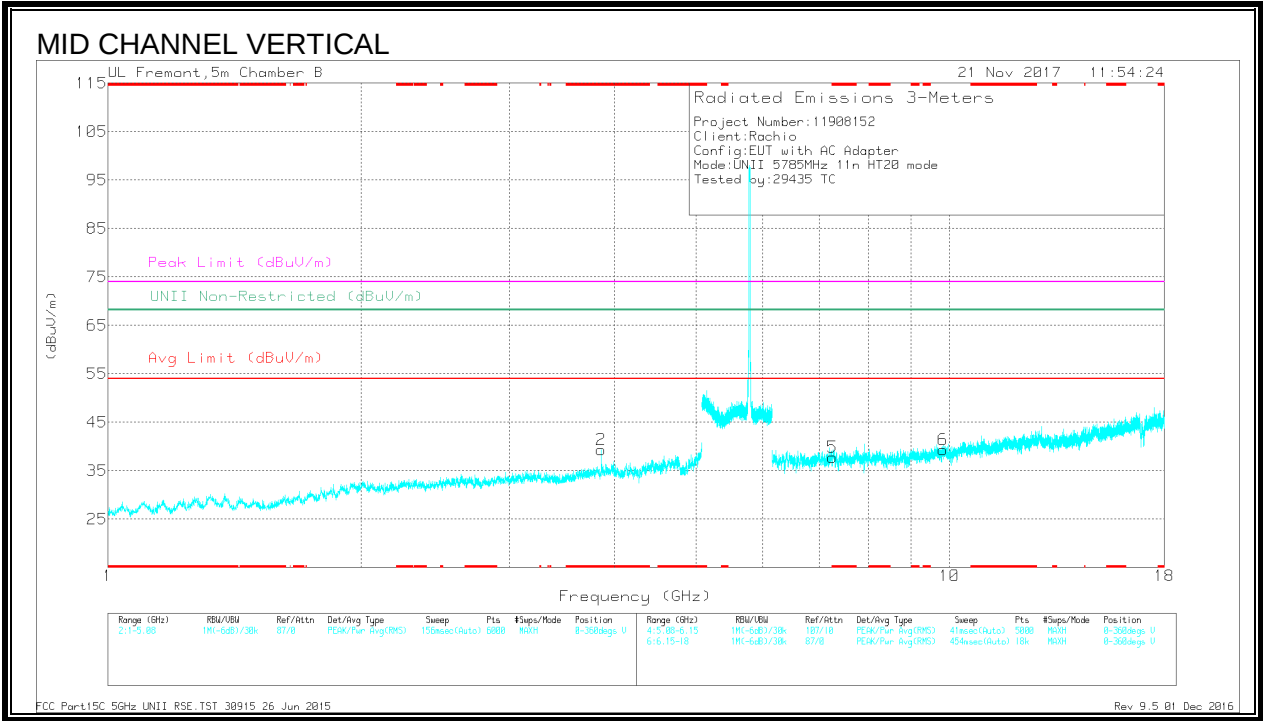
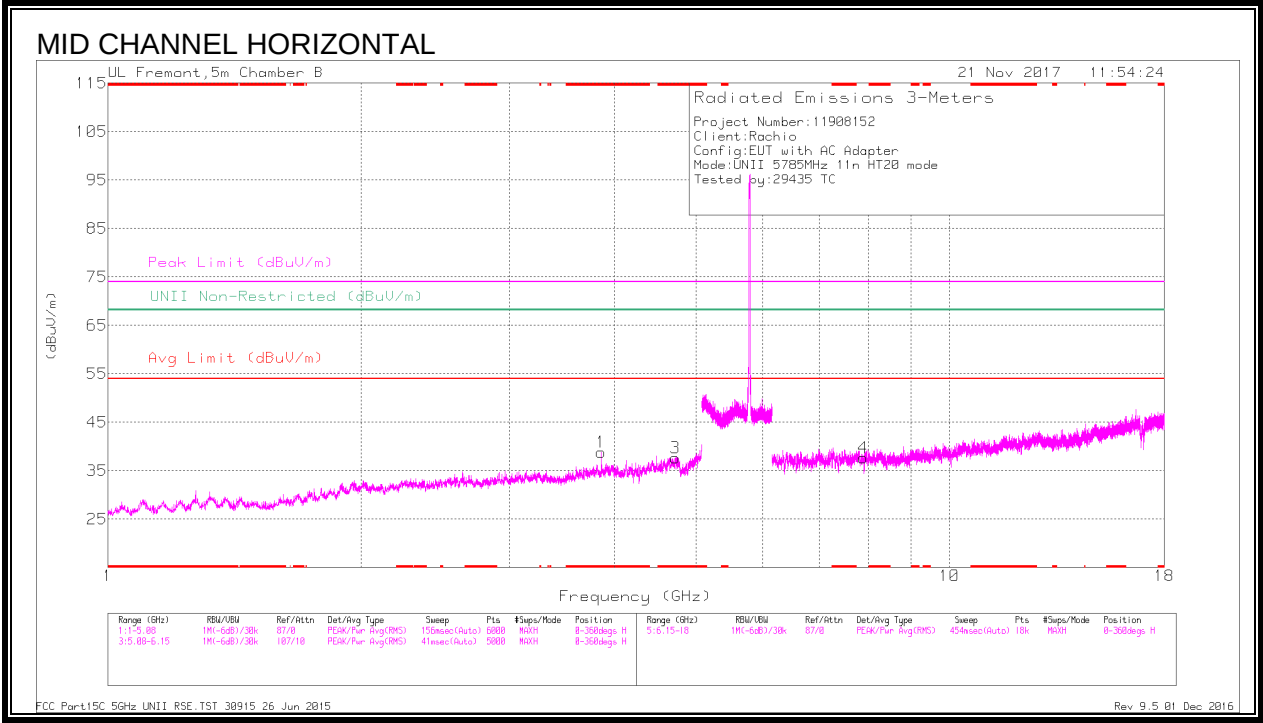
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF TBS3 (dB/m)	Amp/Ch/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 3.83	42.24	PK-U	33.5	-30.7	0	45.04	-	-	74	-28.96	-	-	288	227	H
* 3.83	34.76	ADR	33.5	-30.6	1	38.66	54	-15.34	-	-	-	-	288	227	H
* 4.644	38.4	PK-U	34.3	-28.4	0	44.3	-	-	74	-29.7	-	-	12	289	H
* 4.642	26.08	ADR	34.3	-28.3	1	33.08	54	-20.92	-	-	-	-	12	289	H
* 3.83	43.14	PK-U	33.5	-30.6	0	46.04	-	-	74	-27.96	-	-	215	177	V
* 3.83	36.73	ADR	33.5	-30.6	1	40.63	54	-13.37	-	-	-	-	215	177	V
* 8.065	34.63	PK-U	36	-26.5	0	44.13	-	-	74	-29.87	-	-	58	208	V
* 8.063	22.62	ADR	36	-26.5	1	33.12	54	-20.88	-	-	-	-	58	208	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF TBS3 (dB/m)	Amp/Ch/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 3.856	36.15	Pk	33.5	-30.8	0	38.85	-	-	74	-35.15	-	-	0-360	199	H
3	* 4.724	32.5	Pk	34.2	-29.1	0	37.6	-	-	74	-36.4	-	-	0-360	99	H
2	* 3.856	36.66	Pk	33.5	-30.8	0	39.36	-	-	74	-34.64	-	-	0-360	200	V
5	* 7.263	27.43	Pk	35.8	-25.4	0	37.83	-	-	74	-36.17	-	-	0-360	102	V
4	7.897	28.38	Pk	36	-26.7	0	37.68	-	-	-	-	68.2	-30.52	0-360	199	H
6	9.822	25.84	Pk	36.9	-23.4	0	39.34	-	-	-	-	68.2	-28.86	0-360	102	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

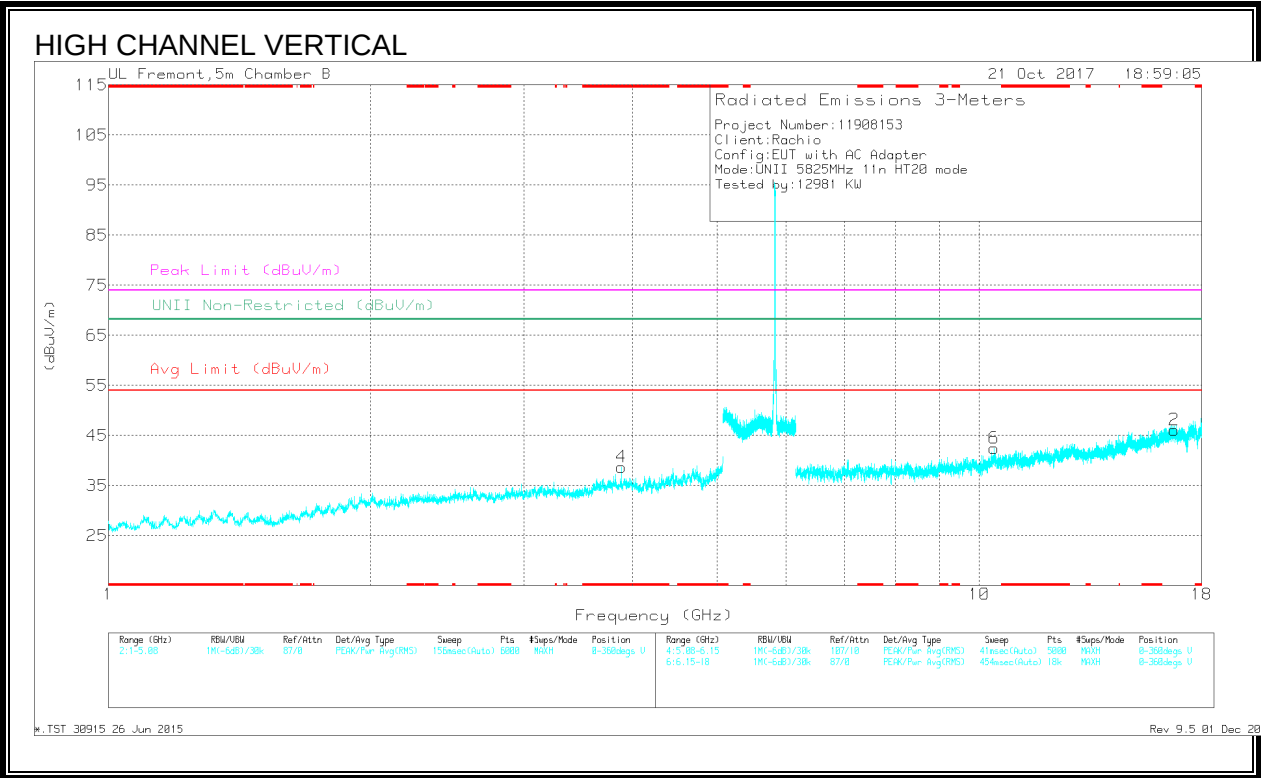
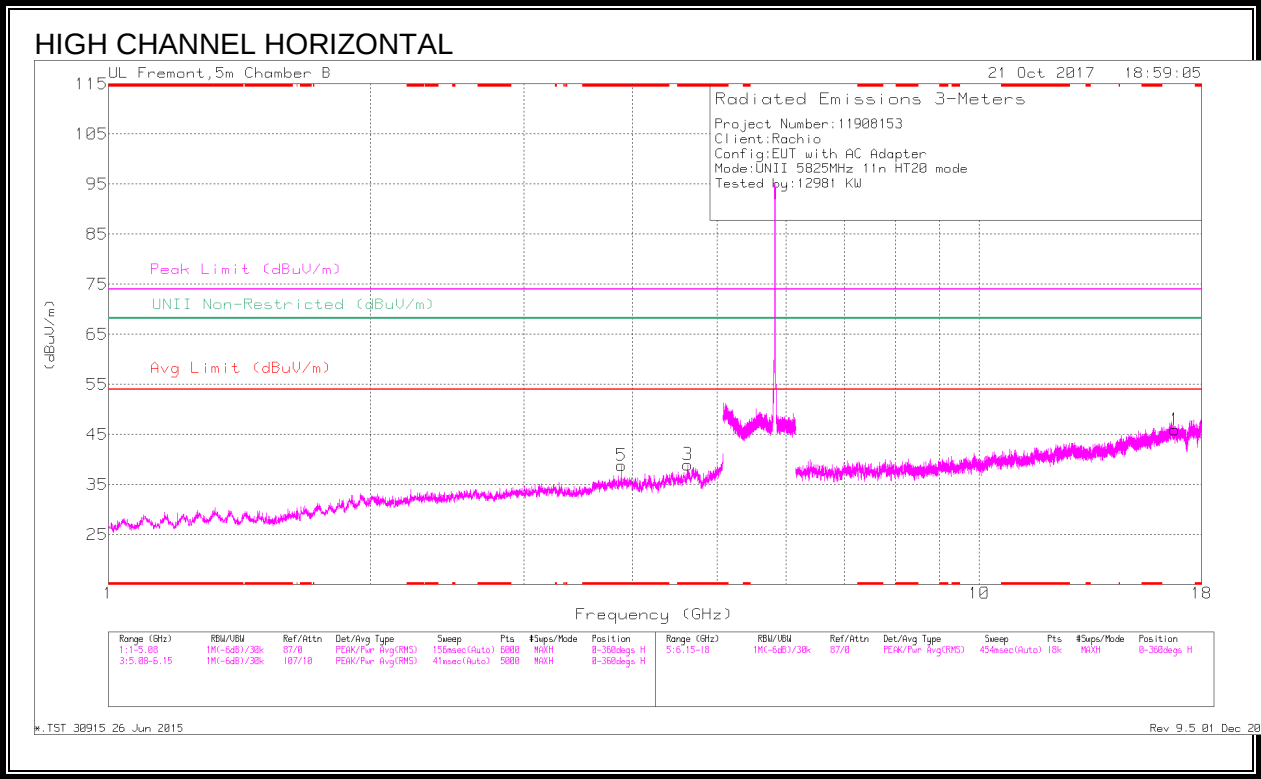
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF TBS3 (dB/m)	Amp/Ch/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 3.856	42.01	PK-U	33.5	-30.8	0	44.71	-	-	74	-29.29	-	-	349	259	H
* 3.857	34.19	ADR	33.5	-30.8	1	37.89	54	-16.11	-	-	-	-	349	259	H
* 4.725	39.47	PK-U	34.2	-29.1	0	44.57	-	-	74	-29.43	-	-	190	159	H
* 4.725	26.48	ADR	34.2	-29.1	1	32.58	54	-21.42	-	-	-	-	190	159	H
* 3.857	42.48	PK-U	33.5	-30.8	0	45.18	-	-	74	-28.82	-	-	232	223	V
* 3.857	35.83	ADR	33.5	-30.8	1	39.53	54	-14.47	-	-	-	-	232	223	V
* 7.264	34.43	PK-U	35.8	-25.3	0	44.93	-	-	74	-29.07	-	-	169	109	V
* 7.264	21.93	ADR	35.8	-25.3	1	33.43	54	-20.57	-	-	-	-	169	109	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Trace Markers

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T863 (dBm)	Ampl/CbIFtr/Pad (dB)	DC Corr (dB)	Correcte d 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)
3	* 4.628	33.01	Pk	34.3	-28.3	0	39.01	-	-	74	-34.99	-	-	0-360
5	* 3.884	35.93	Pk	33.5	-30.6	0	38.63	-	-	74	-35.17	-	-	0-360
4	* 3.884	35.77	Pk	33.5	-30.6	0	38.67	-	-	74	-35.33	-	-	0-360
6	10.398	27.46	Pk	37.5	-22.5	0	42.46	-	-	-	-	68.2	-25.74	0-360
2	16.739	23.48	Pk	42.3	-19.7	0	46.08	-	-	-	-	68.2	-22.12	0-360
1	16.773	23.06	Pk	42.4	-19.5	0	45.96	-	-	-	-	68.2	-22.24	0-360

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

Radiated Emissions

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T863 (dBm)	Ampl/CbIFtr/Pad (dB)	DC Corr (dB)	Correcte d 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	* 4.629	38.08	PK-U	34.3	-28.3	0	44.08	-	-	74	-29.92	-	-	132	342	H
	* 4.63	26.38	ADR	34.3	-28.3	1	33.38	54	-20.62	-	-	-	-	132	342	H
5	* 3.883	41.53	PK-U	33.5	-30.6	0	44.43	-	-	74	-29.57	-	-	58	293	H
	* 3.883	33.2	ADR	33.5	-30.6	1	37.10	54	-16.90	-	-	-	-	58	293	H
4	* 3.883	40.45	PK-U	33.5	-30.6	0	43.35	-	-	74	-30.65	-	-	116	367	V
	* 3.883	30.7	ADR	33.5	-30.6	1	34.60	54	-19.40	-	-	-	-	116	367	V
6	10.397	32.4	PK-U	37.5	-22.6	0	47.3	-	-	-	-	68.2	-20.9	129	186	V
2	16.737	32.01	PK-U	42.3	-19.7	0	54.61	-	-	-	-	68.2	-13.59	129	173	V
1	16.775	30.05	PK-U	42.4	-19.5	0	52.95	-	-	-	-	68.2	-15.25	243	222	H

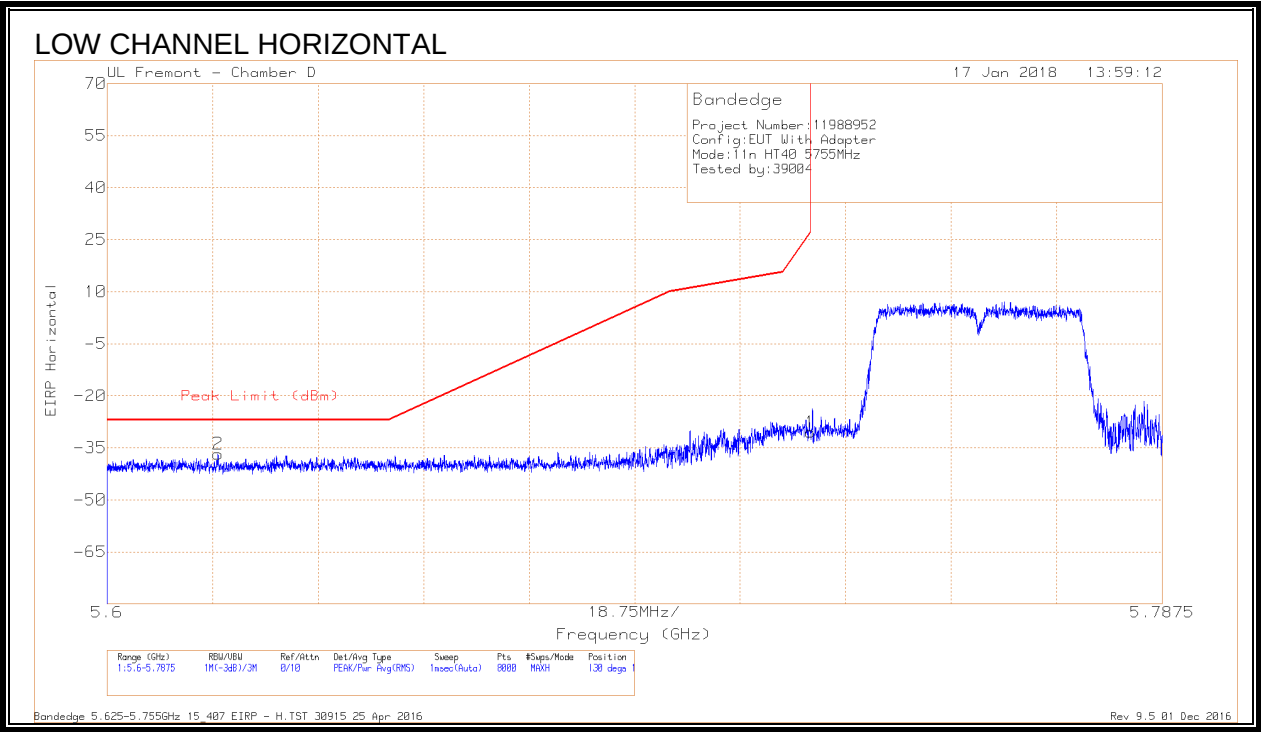
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.1.12. 11n HT40 MODE IN THE 5.8GHz BAND

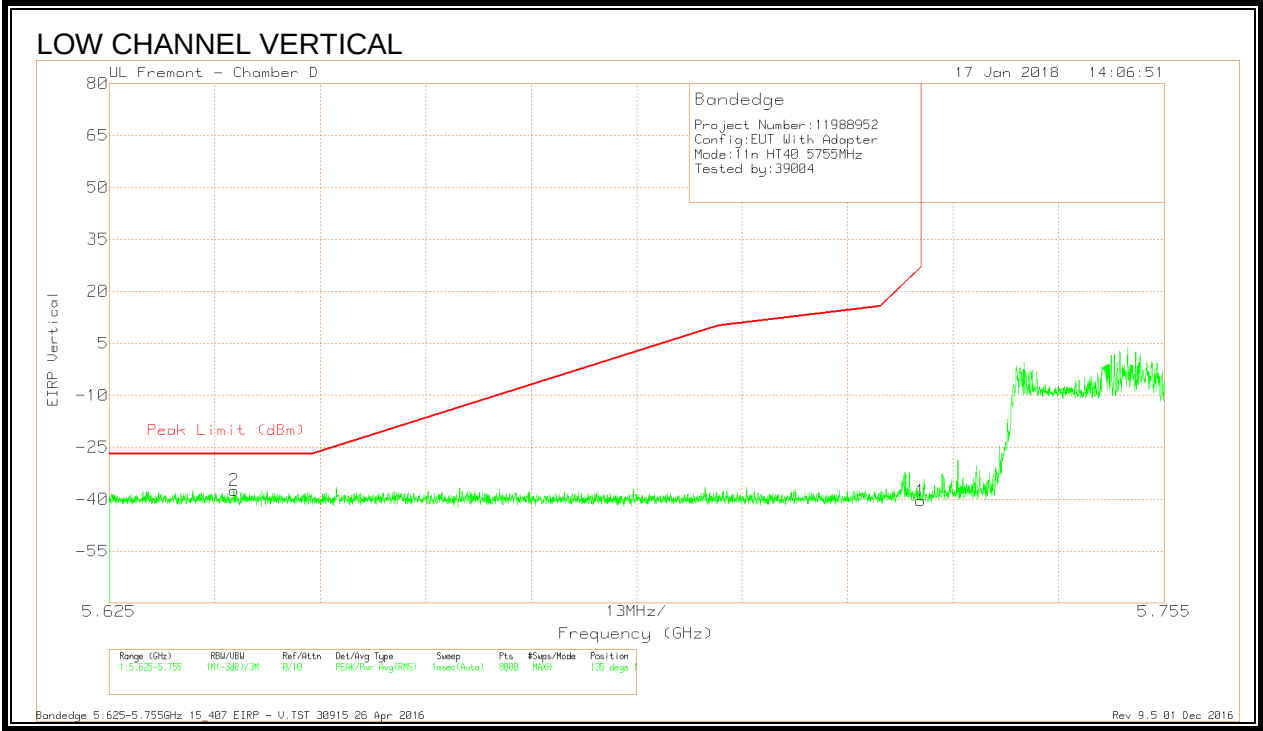
RESTRICTED BANDEDGE (LOW CHANNEL)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.62	-66.06	Pk	34.7	-17.2	11.8	0	-36.76	-27	-9.76	130	136	H
1	5.725	-59.96	Pk	34.8	-17.1	11.8	0	-30.46	26.96	-57.42	130	136	H

Pk - Peak detector
Bandedge 5.625-5.755GHz 15_407 EIRP - H.TST 30915 25 Apr 2016



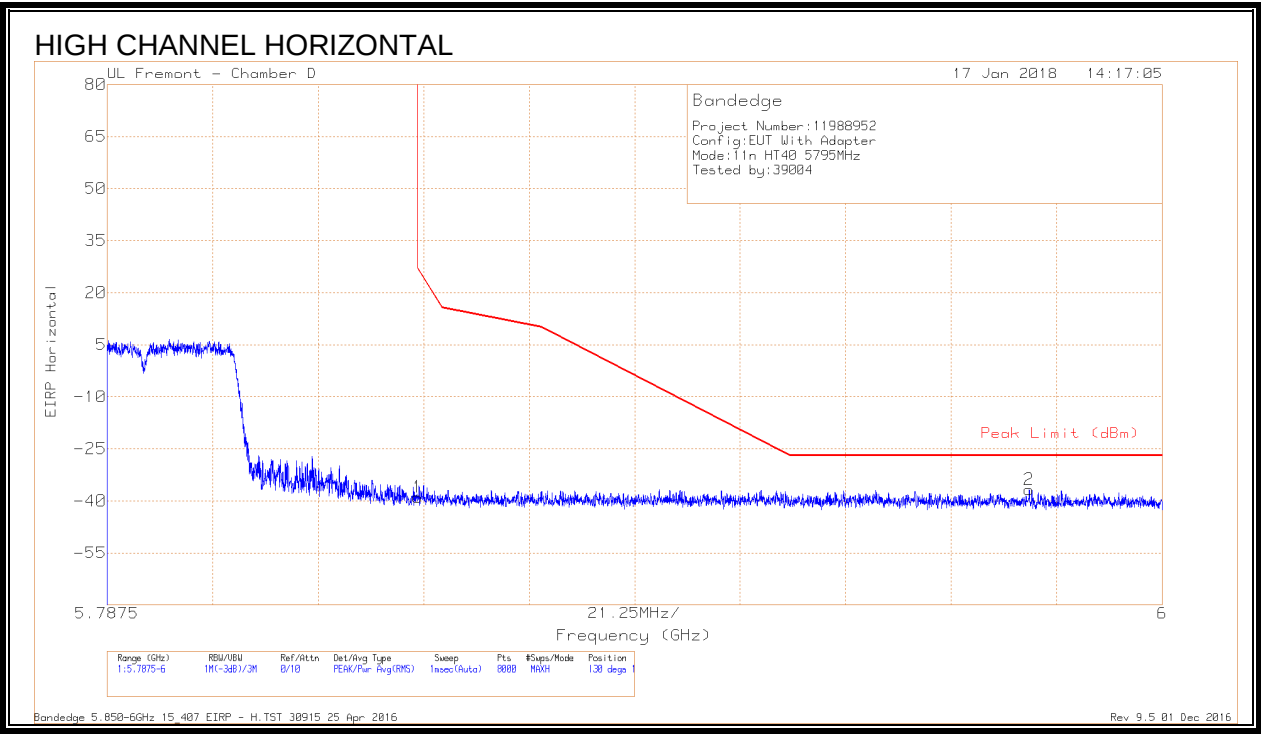
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64	-66.86	Pk	34.7	-17.1	11.8	0	-37.46	-27	-10.46	135	153	V
1	5.725	-69.95	Pk	34.8	-17.1	11.8	0	-40.45	27	-67.45	135	153	V

Pk - Peak detector

Bandedge 5.625-5.755GHz 15_407 EIRP - V.TST 30915 26 Apr 2016

RESTRICTED BANDEDGE (HIGH CHANNEL)

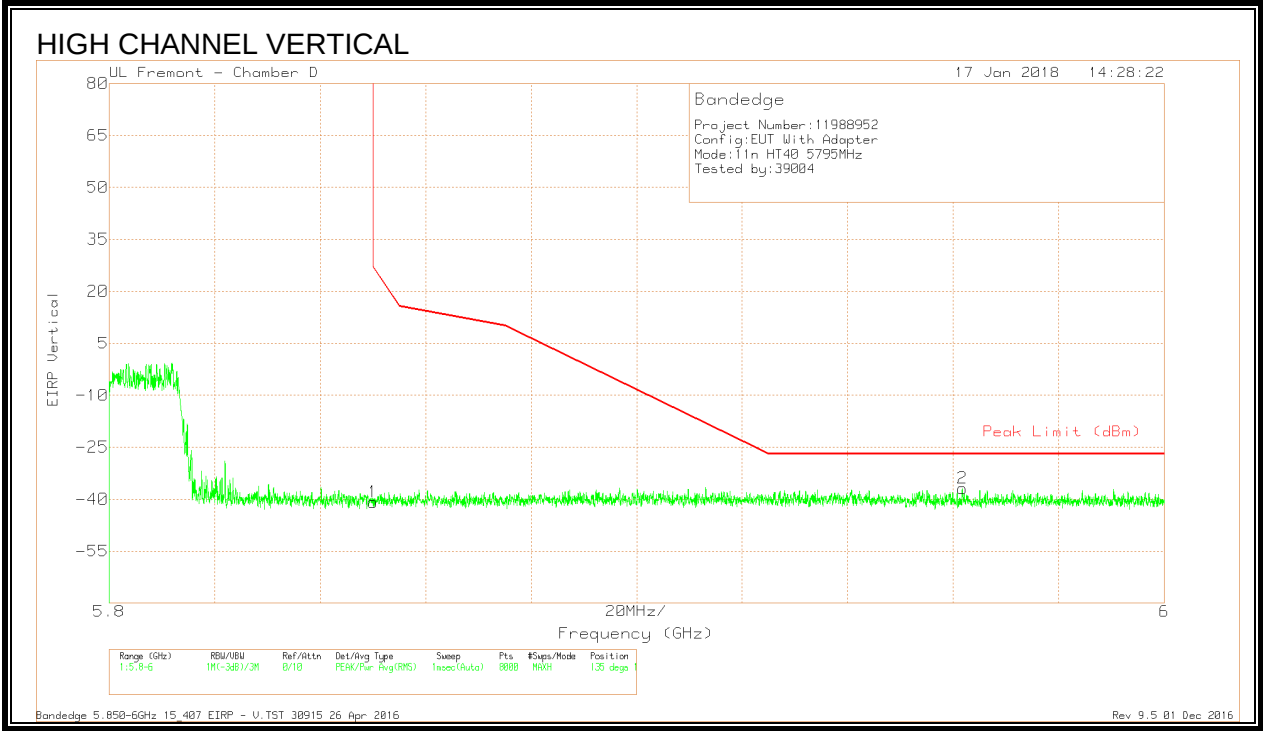


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cb1/Ftr/P ad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-68.53	Pk	34.8	-17	11.8	0	-38.93	26.98	-65.91	130	134	H
2	5.973	-66.76	Pk	35.2	-17	11.8	0	-36.76	-27	-9.76	130	134	H

Pk - Peak detector

Bandedge 5.850-6GHz 15_407 EIRP - H.TST 30915 25 Apr 2016

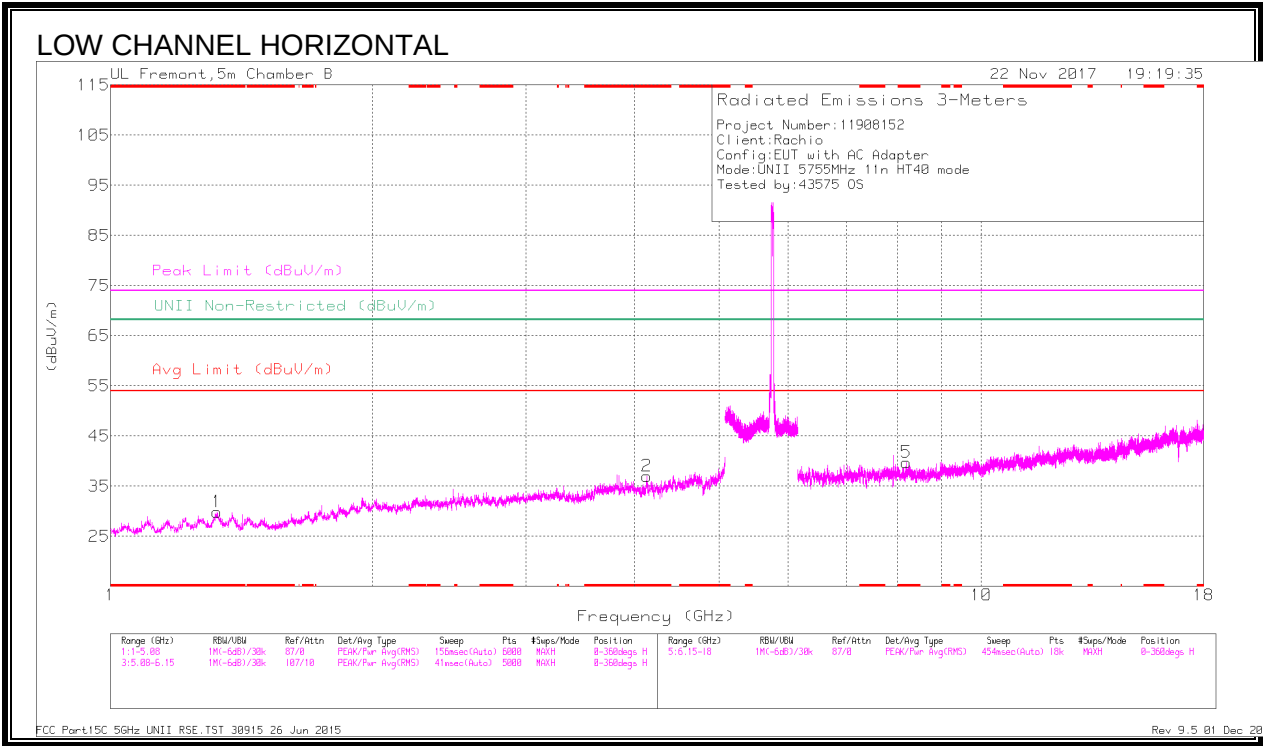


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-70.44	Pk	34.8	-17	11.8	0	-40.84	26.99	-67.83	135	180	V
2	5.962	-66.76	Pk	35.1	-17	11.8	0	-36.86	-27	-9.86	135	180	V

Pk - Peak detector
Bandedge 5.850-6GHz 15_407 EIRP - V.TST 30915 26 Apr 2016

HARMONICS AND SPURIOUS EMISSIONS

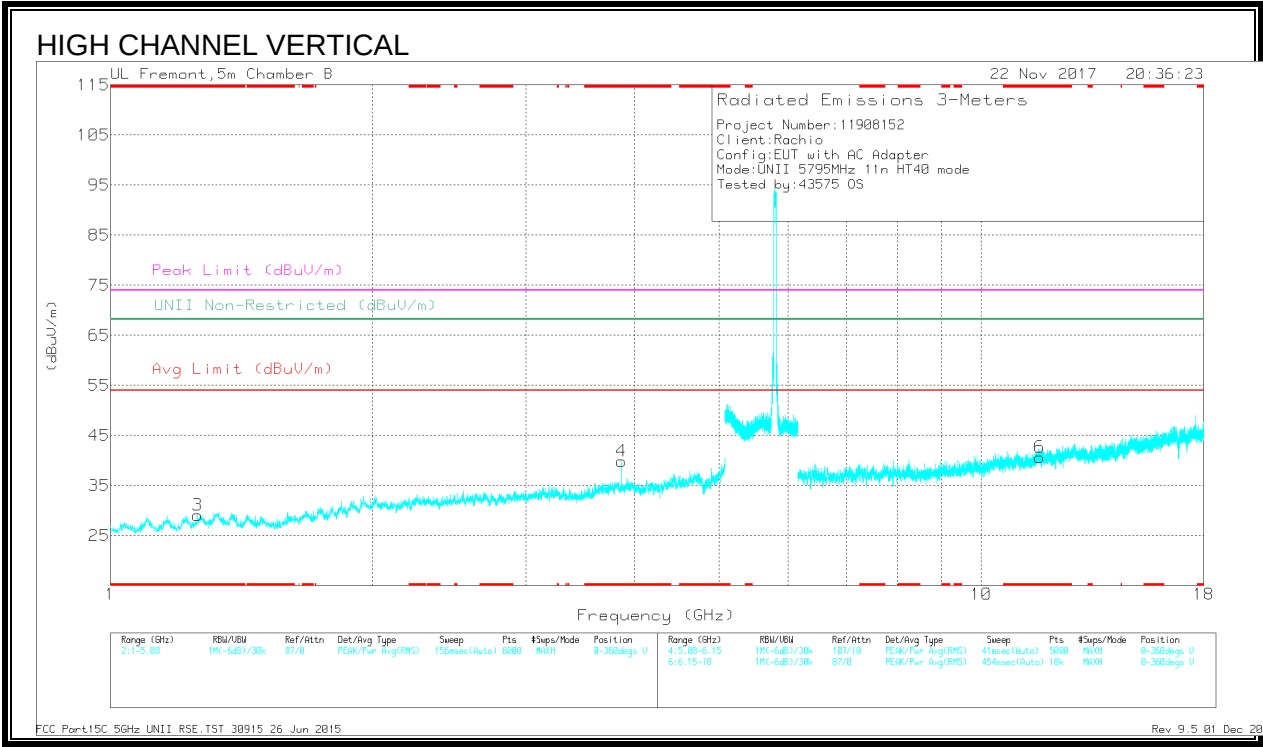
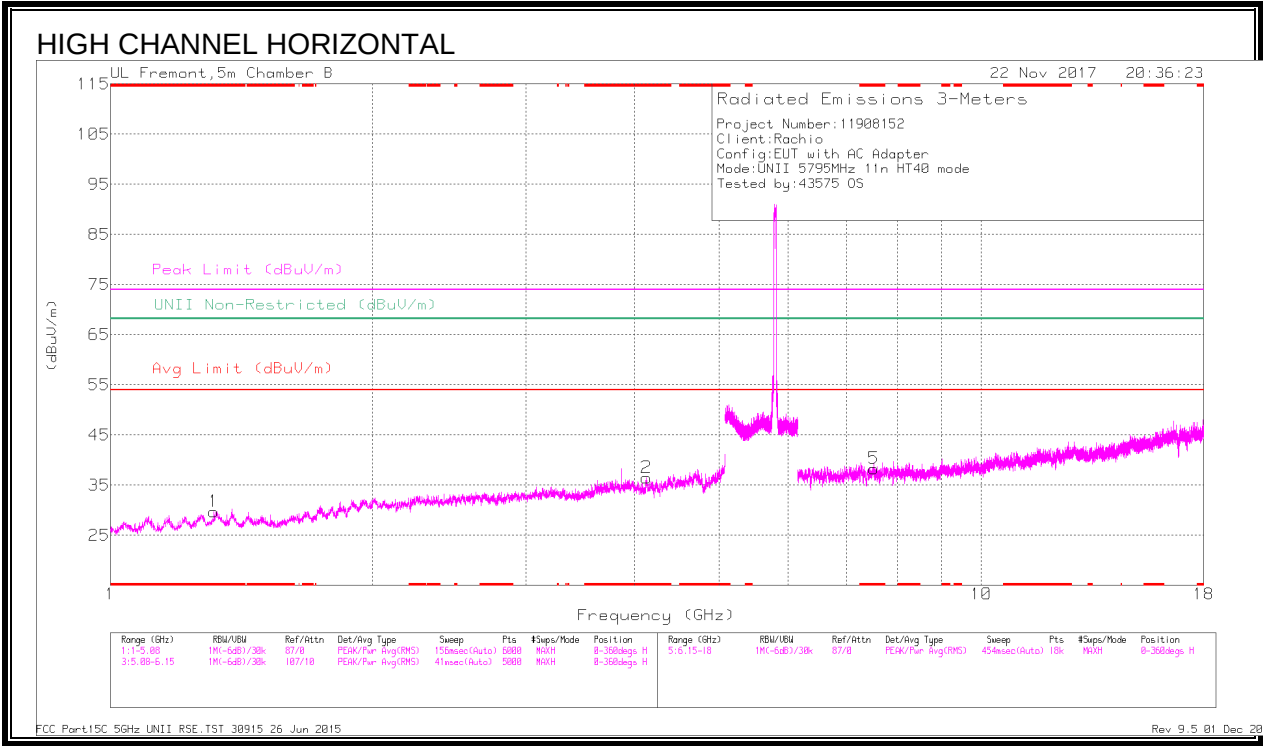


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF TBE3 (dB/m)	Amp/Chl/Fbr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNR Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.324	34.54	Pk	28.9	-33.6	0	29.84	-	-	74	-44.16	-	-	0-360	199	H
2	* 4.127	33.09	Pk	33.4	-29.5	0	36.99	-	-	74	-37.01	-	-	0-360	199	H
3	* 1.27	34.92	Pk	28.8	-34.3	0	29.42	-	-	74	-44.58	-	-	0-360	200	V
4	* 3.837	36.52	Pk	33.5	-30.9	0	39.12	-	-	74	-34.88	-	-	0-360	200	V
5	* 8.198	29.91	Pk	36	-26.2	0	39.71	-	-	74	-34.29	-	-	0-360	102	H
6	* 11.81	25.53	Pk	38.6	-22.7	0	41.43	-	-	74	-32.57	-	-	0-360	102	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector



Trace Markers

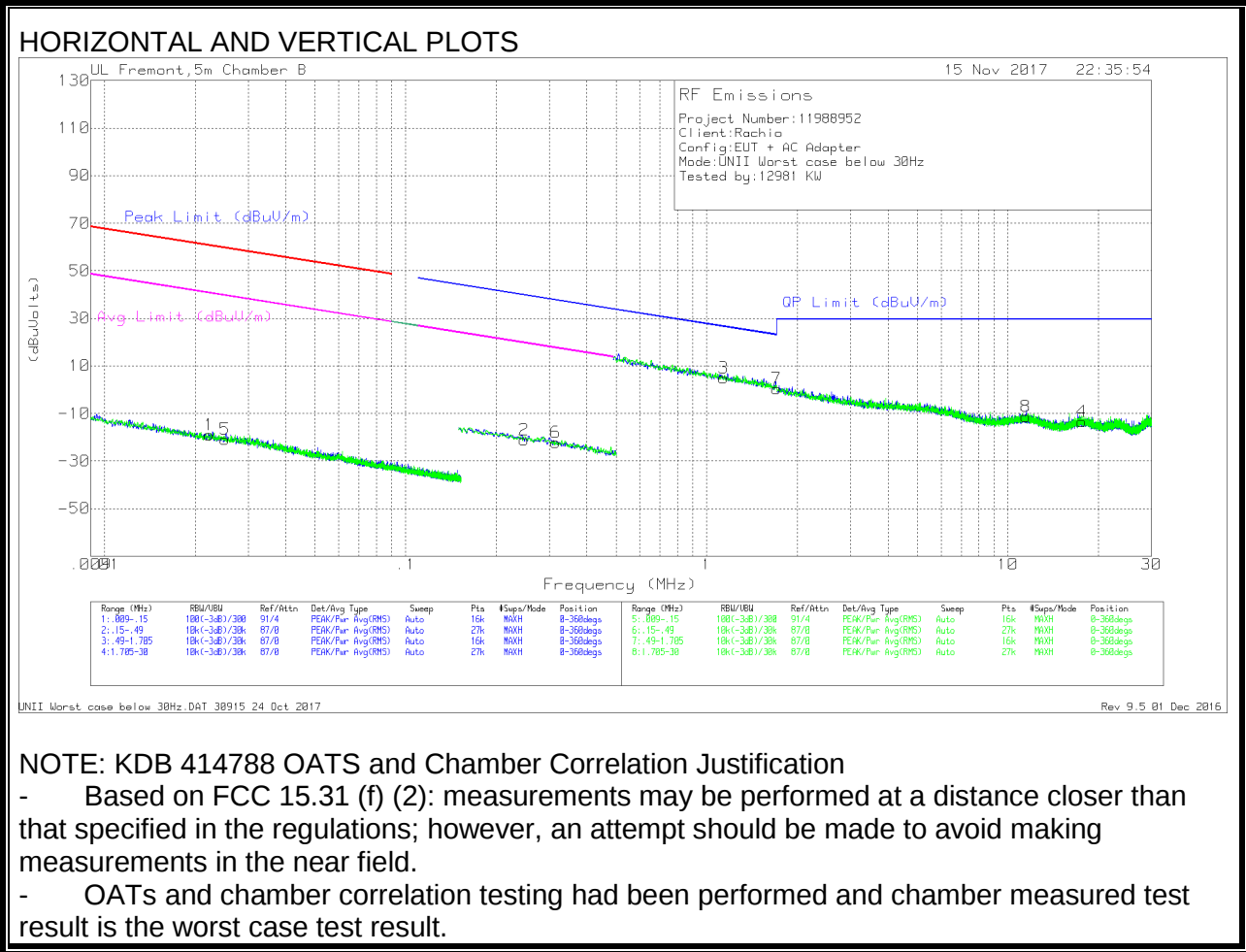
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF TR63 (dB/m)	Amp/Ch/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNR Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.315	34.77	Pk	28.9	-33.9	0	29.77	-	-	74	-44.23	-	-	0-360	102	H
2	* 4.126	32.73	Pk	33.4	-29.6	0	36.53	-	-	74	-37.47	-	-	0-360	199	H
3	* 1.26	34.57	Pk	28.8	-34.3	0	29.07	-	-	74	-44.93	-	-	0-360	199	V
4	* 3.863	36.8	Pk	33.5	-30.5	0	39.8	-	-	74	-34.2	-	-	0-360	199	V
5	* 7.527	28.46	Pk	36	-26.2	0	38.26	-	-	74	-35.74	-	-	0-360	102	H
6	* 11.667	24.55	Pk	38.3	-22.2	0	40.65	-	-	74	-33.35	-	-	0-360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

9.2. WORST-CASE RADIATED EMISSIONS BELOW 30 MHz

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION)



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.02233	44.6	Pk	14.9	1.4	-80	-19.1	60.61	-79.71	40.61	-59.71	-	-	-	-	0-360
5	.0251	42.65	Pk	15.1	1.4	-80	-20.85	59.59	-80.44	39.59	-60.44	-	-	-	-	0-360
2	.24754	43.53	Pk	13.9	1.5	-80	-21.07	-	-	-	-	39.74	-60.81	19.74	-40.81	0-360
6	.31512	42.39	Pk	13.8	1.5	-80	-22.31	-	-	-	-	37.64	-59.95	17.64	-39.95	0-360

Pk - Peak detector

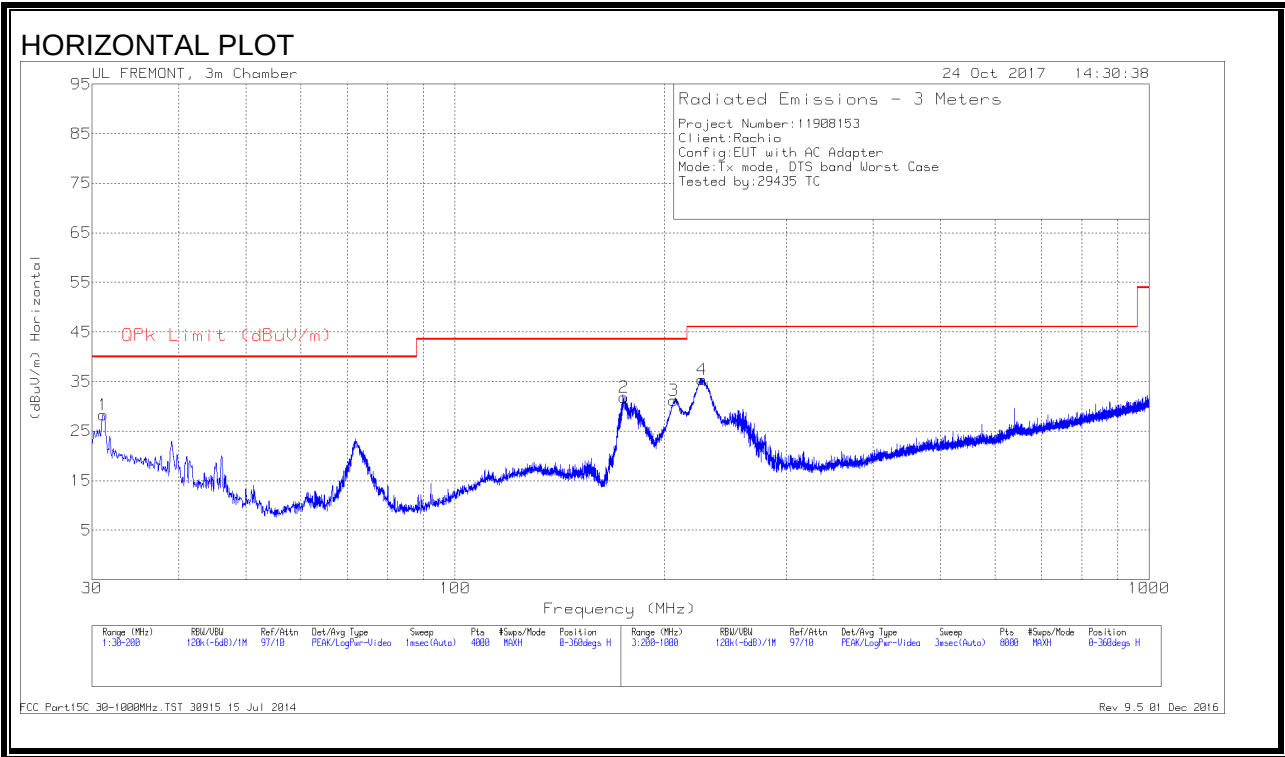
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuVolts)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
3	1.1379	28.99	Pk	14.3	1.5	-40	-4.79	26.5	-21.71	0-360
7	1.705	24.51	Pk	14.4	1.5	-40	-41	23	-22.59	0-360
8	11.47131	12.43	Pk	14.7	1.6	-40	-11.27	29.5	-40.77	0-360
4	17.62517	10.48	Pk	14.6	1.6	-40	-13.32	29.5	-42.82	0-360

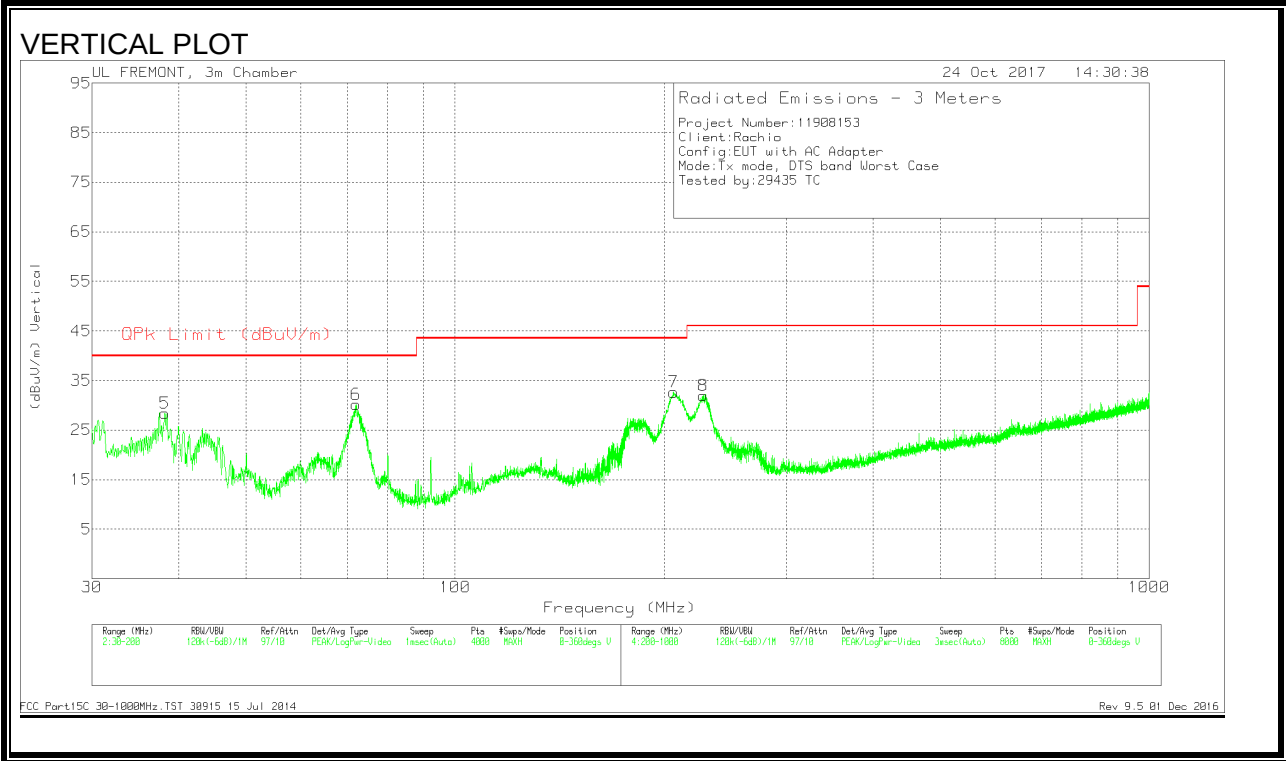
Pk - Peak detector

UNII Worst case below 30Hz.DAT 30915 24 Oct 2017
Rev 9.5 01 Dec 2016

9.3. WORST CASE RADIATED EMISSIONS 30-1000 MHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)





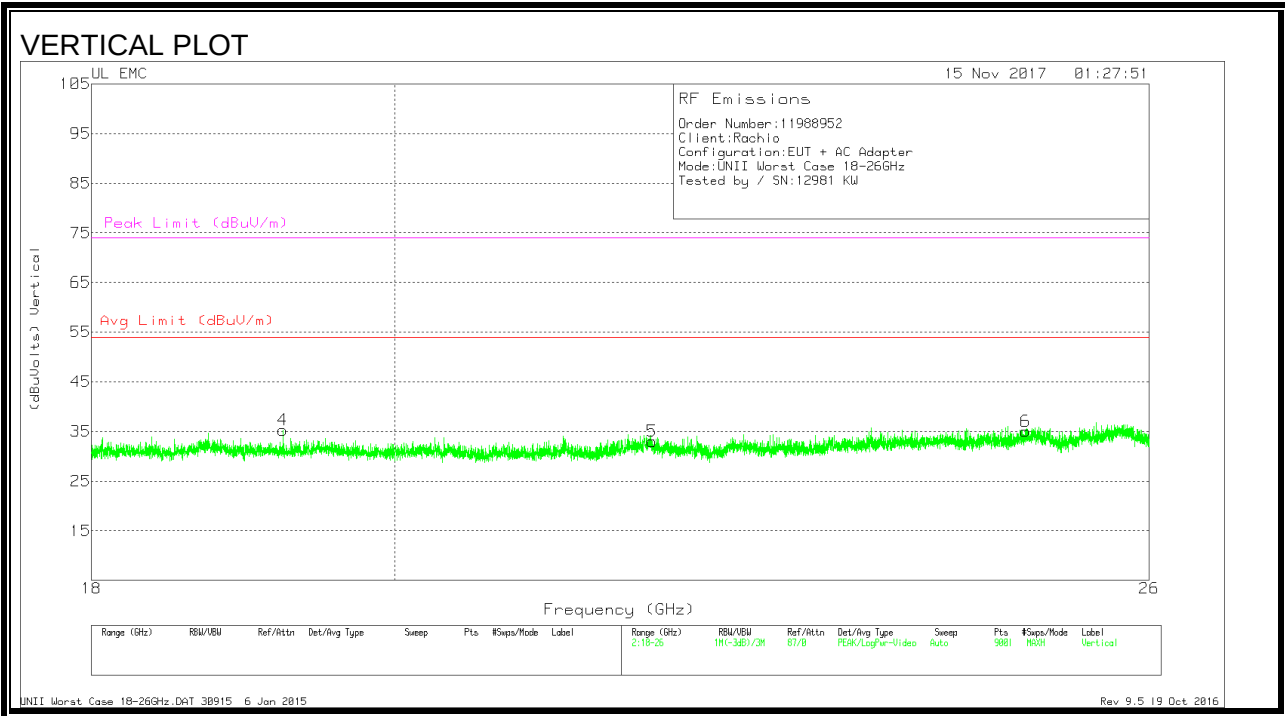
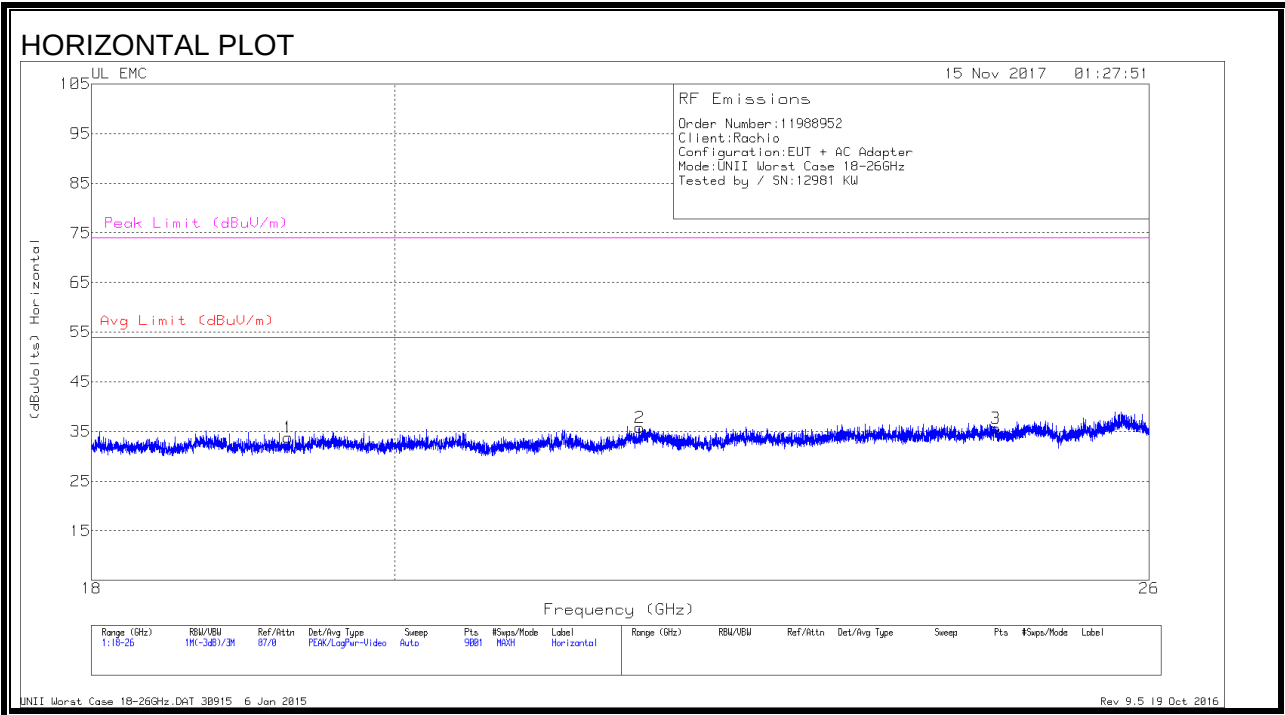
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T408 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	31.1478	35	Pk	24.4	-31.1	28.3	40	-11.7	0-360	100	H
5	38.2046	40.09	Pk	19.3	-31	28.39	40	-11.61	0-360	100	V
6	71.9584	48.69	Pk	12.1	-30.6	30.19	40	-9.81	0-360	100	V
2	175.005	45.78	Pk	15.6	-29.6	31.78	43.52	-11.74	0-360	200	H
7	206.5008	46.95	Pk	15.1	-29.4	32.65	43.52	-10.87	0-360	100	V
3	206.6009	45.53	Pk	15.1	-29.4	31.23	43.52	-12.29	0-360	100	H
4	226.8035	49.9	Pk	14.8	-29.3	35.4	46.02	-10.62	0-360	100	H
8	227.8036	46.37	Pk	14.9	-29.3	31.97	46.02	-14.05	0-360	200	V

Pk - Peak detector

9.4. WORST-CASE RADIATED EMISSIONS 18-26 GHz

SPURIOUS EMISSIONS 18GHz TO 26GHz (WORST-CASE CONFIGURATION, HORIZONTAL)



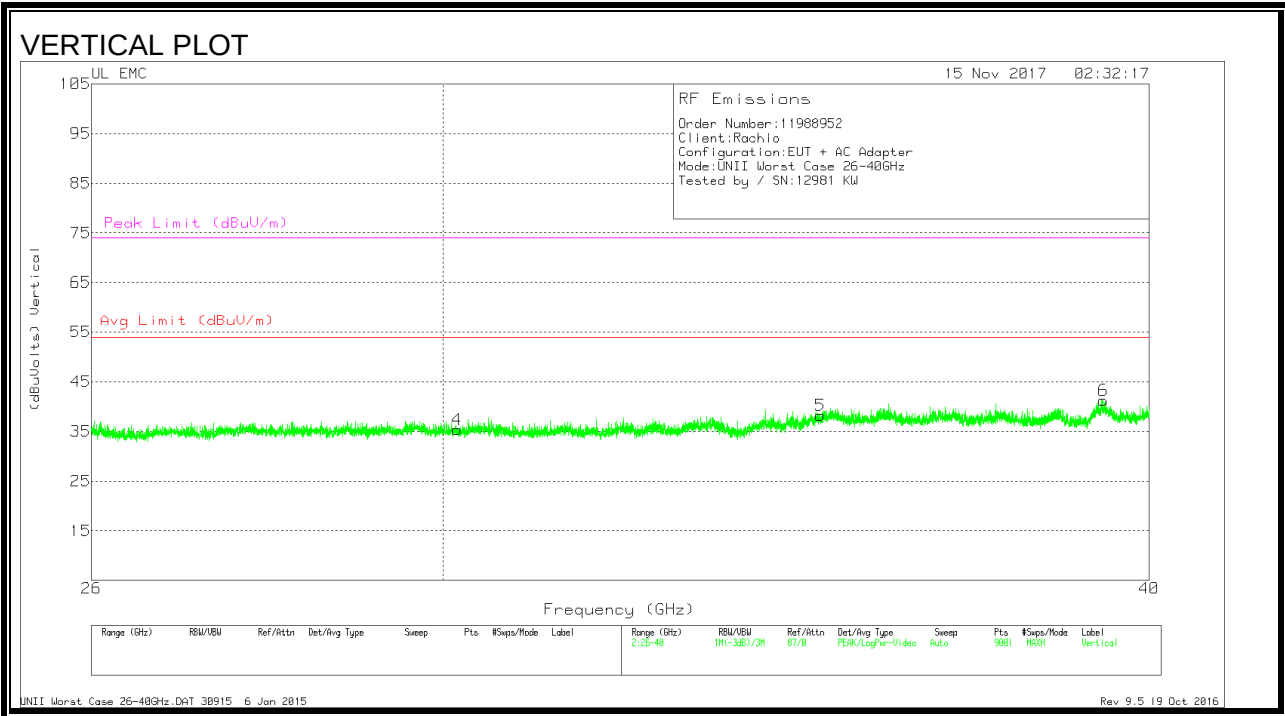
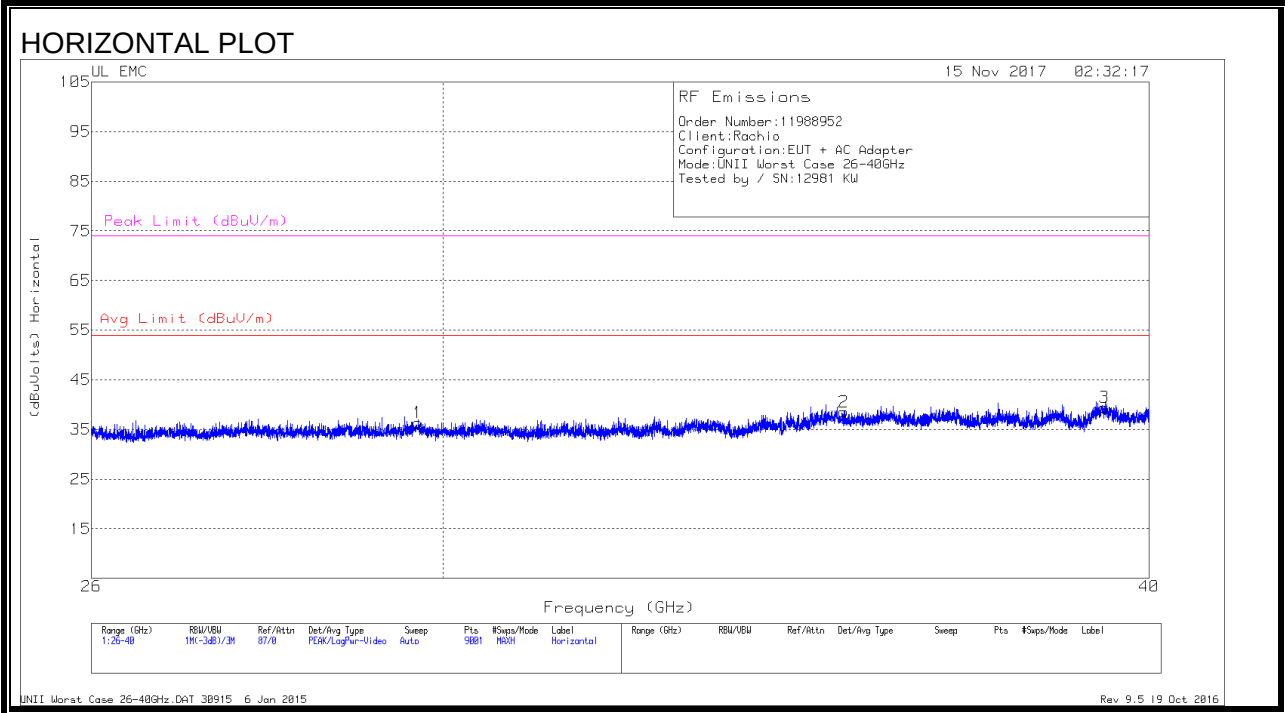
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T89 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	19.275	35.78	Pk	32.3	-24.8	-9.5	33.78	54	-20.22	74	-40.22
2	21.779	36.95	Pk	33.3	-25	-9.5	35.75	54	-18.25	74	-38.25
3	24.65	35.75	Pk	33.9	-24.5	-9.5	35.65	54	-18.35	74	-38.35
4	19.238	37.28	Pk	32.3	-24.8	-9.5	35.28	54	-18.72	74	-38.72
5	21.874	34	Pk	33.3	-24.8	-9.5	33	54	-21	74	-41
6	24.905	34.94	Pk	34	-24.4	-9.5	35.04	54	-18.96	74	-38.96

Pk - Peak detector

9.5. WORST-CASE RADIATED EMISSIONS 26-40 GHz

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



Trace Markers

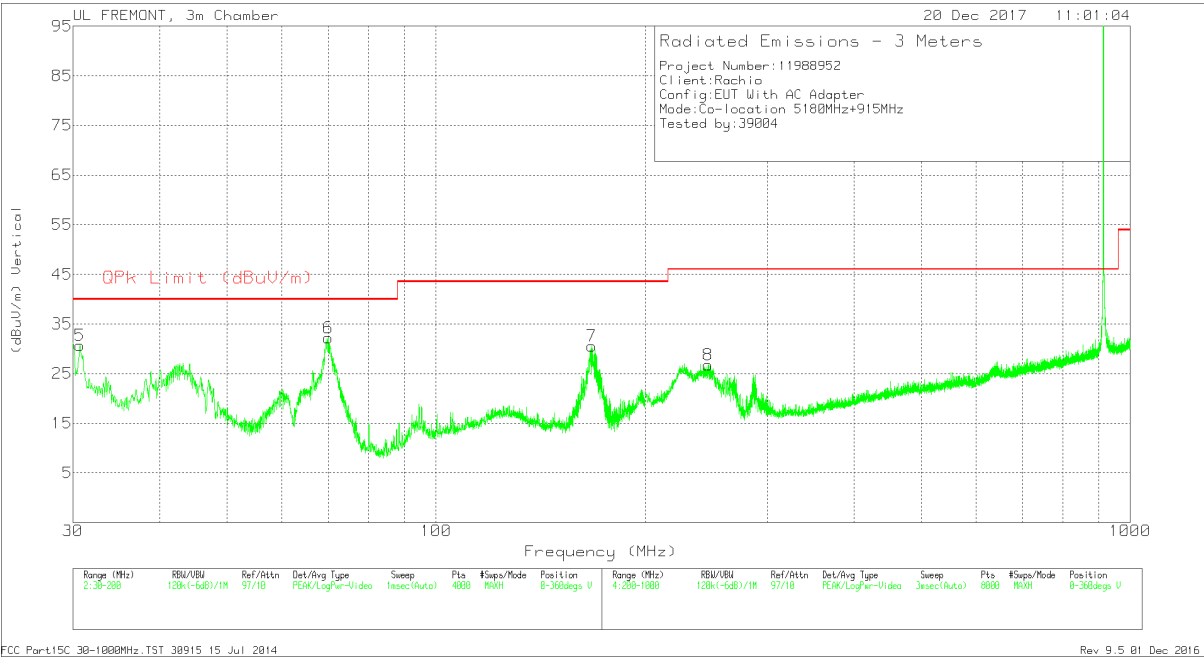
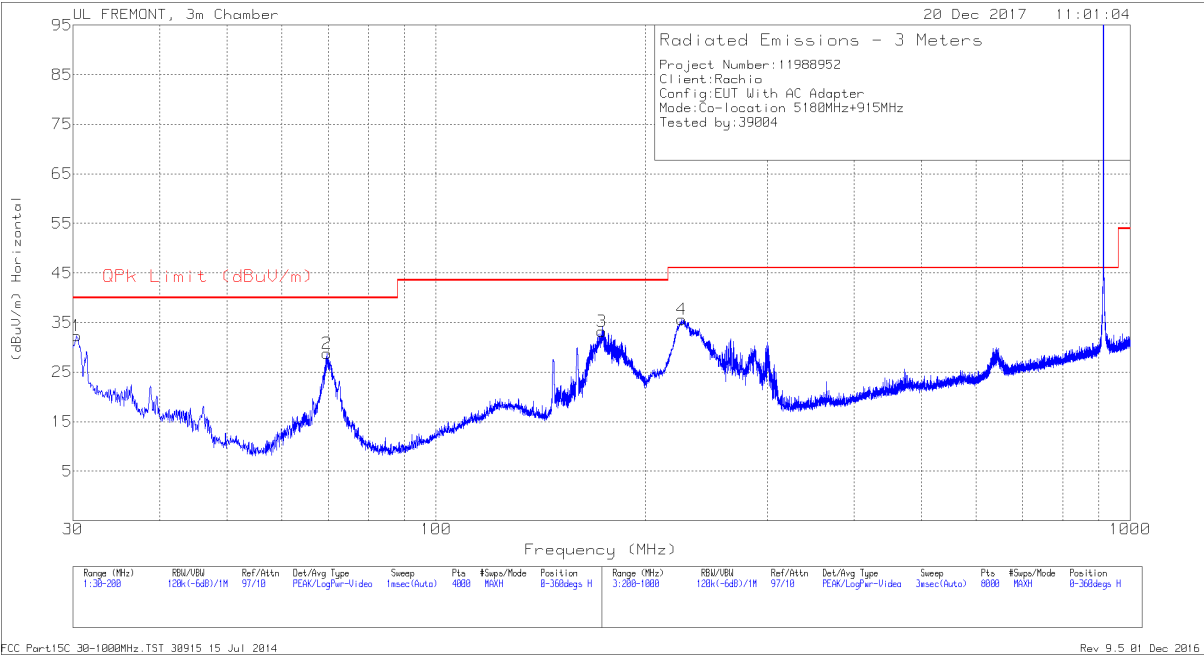
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T90 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	29.698	40.84	Pk	36	-31	-9.5	36.34	54	-17.66	74	-37.66
2	35.322	41.57	Pk	37.8	-31.3	-9.5	38.57	54	-15.43	74	-35.43
3	39.275	41.07	Pk	38.5	-30.6	-9.5	39.47	54	-14.53	74	-34.53
4	30.177	40.29	Pk	35.9	-31.3	-9.5	35.39	54	-18.61	74	-38.61
5	34.98	42.06	Pk	37.2	-31.5	-9.5	38.26	54	-15.74	74	-35.74
6	39.256	42.63	Pk	38.6	-30.5	-9.5	41.23	54	-12.77	74	-32.77

Pk - Peak detector

9.6. CO-LOCATION TEST RESULTS

9.6.1. TX SPURIOUS EMISSIONS TEST 30MHz – 1000MHz

900MHz + UNII 5GHz



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T243 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.3401	38.1	Pk	25.3	-31.1	32.3	40	-7.7	0-360	100	H
5	30.6802	36.75	Pk	25	-31.1	30.65	40	-9.35	0-360	100	V
2	69.6203	47.33	Pk	12.1	-30.6	28.83	40	-11.17	0-360	300	H
6	69.9178	50.67	Pk	12.1	-30.6	32.17	40	-7.83	0-360	100	V
7	167.6506	44.5	Pk	15.8	-29.7	30.6	43.52	-12.92	0-360	100	V
3	173.3471	47.32	Pk	15.5	-29.6	33.22	43.52	-10.3	0-360	100	H
4	225.9034	50.04	Pk	14.9	-29.3	35.64	46.02	-10.38	0-360	100	H
8	246.8061	40.1	Pk	15.7	-29.1	26.7	46.02	-19.32	0-360	100	V

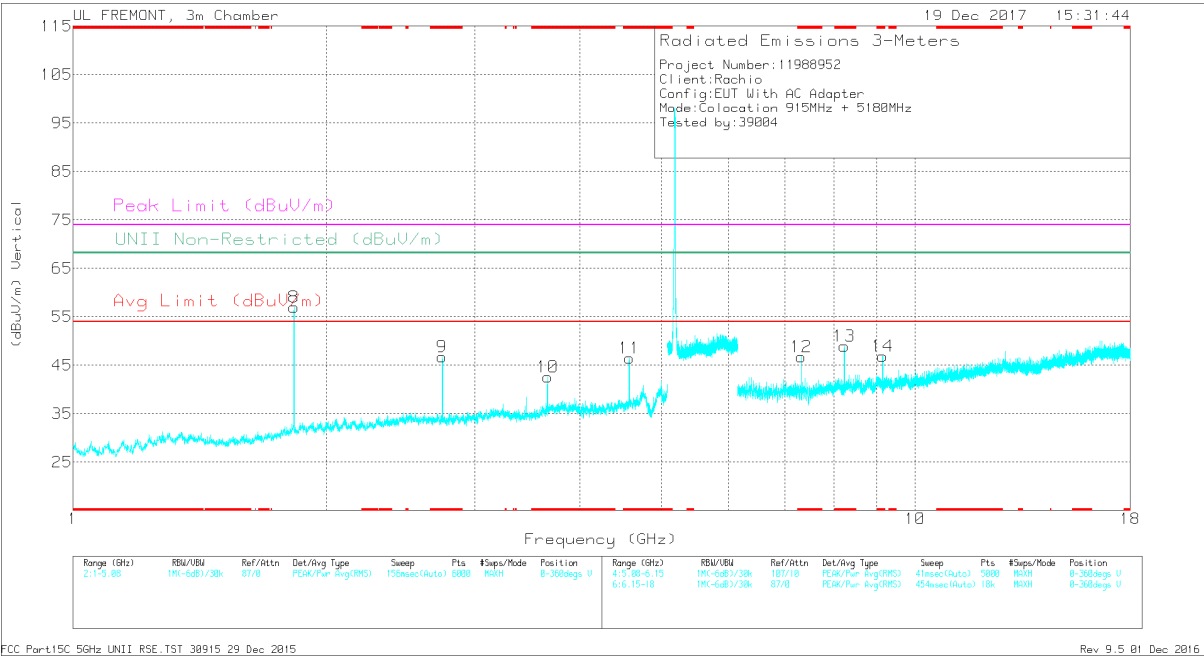
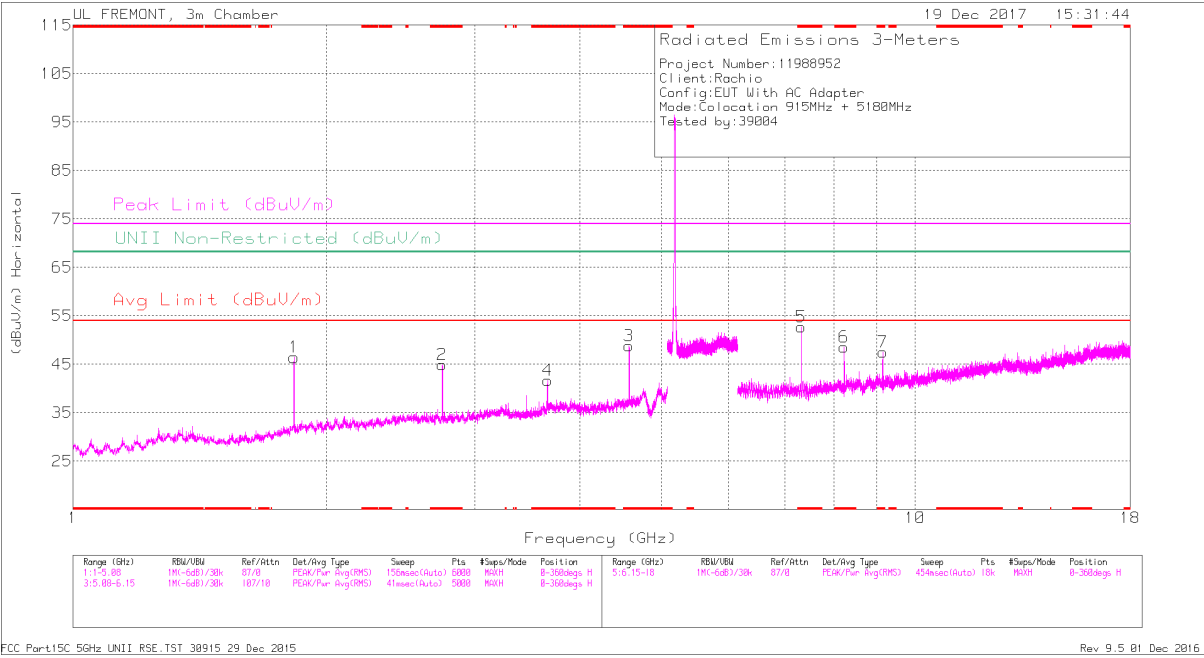
Pk - Peak detector

FCC Part15C 30-1000MHz.TST 30915 15 Jul 2014

Rev 9.5 01 Dec 2016

9.6.2. TX SPURIOUS EMISSIONS TEST 1GHz – 18GHz

900MHz + UNII 5GHz



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (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)	Altitude (Degs)	Height (cm)	Polarity
2	* 2.745	43.11	Pk	32.4	-30.6	44.91	-	-	74	-29.09	-	-	0-360	200	H
3	* 4.575	43.56	Pk	34	-28.7	48.86	-	-	74	-25.14	-	-	0-360	200	H
4	* 3.659	38.13	Pk	33.2	-29.6	41.73	-	-	74	-32.27	-	-	0-360	100	H
9	* 2.744	44.88	Pk	32.4	-30.6	46.68	-	-	74	-27.32	-	-	0-360	100	V
10	* 3.66	39.04	Pk	33.2	-29.6	42.64	-	-	74	-31.36	-	-	0-360	100	V
11	* 4.575	41.14	Pk	34	-28.7	46.44	-	-	74	-27.56	-	-	0-360	200	V
5	* 7.319	42.98	Pk	35.5	-25.8	52.68	-	-	74	-21.32	-	-	0-360	200	H
6	* 8.233	38.13	Pk	35.8	-25.4	48.53	-	-	74	-25.47	-	-	0-360	200	H
7	* 9.149	34.73	Pk	36.1	-23.3	47.53	-	-	74	-26.47	-	-	0-360	200	H
12	* 7.318	37.03	Pk	35.5	-25.8	46.73	-	-	74	-27.27	-	-	0-360	200	V
13	* 8.237	38.49	Pk	35.8	-25.3	48.99	-	-	74	-25.01	-	-	0-360	200	V
14	* 9.148	34.02	Pk	36.1	-23.2	46.92	-	-	74	-27.08	-	-	0-360	200	V
1	1.83	46.92	Pk	30.4	-30.9	46.42	-	-	-	-	68.2	-21.78	0-360	200	H
8	1.83	57.46	Pk	30.4	-30.9	56.96	-	-	-	-	68.2	-11.24	0-360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (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)	Altitude (Degs)	Height (cm)	Polarity
2	* 2.746	41.54	PK-U	32.4	-30.6	43.34	-	-	74	-30.66	-	-	289	250	H
	* 2.745	31.27	ADR	32.4	-30.6	33.07	54	-20.93	-	-	-	-	289	250	H
3	* 4.576	43.08	PK-U	34	-28.7	48.38	-	-	74	-25.62	-	-	265	190	H
	* 4.575	33.5	ADR	34	-28.7	38.8	54	-15.2	-	-	-	-	265	190	H
4	* 3.659	40.79	PK-U	33.2	-29.6	44.39	-	-	74	-29.61	-	-	251	115	H
	* 3.66	30.01	ADR	33.2	-29.6	33.61	54	-20.39	-	-	-	-	251	115	H
9	* 2.744	39.8	PK-U	32.4	-30.6	41.6	-	-	74	-32.4	-	-	233	162	V
	* 2.745	28.82	ADR	32.4	-30.6	30.62	54	-23.38	-	-	-	-	233	162	V
10	* 3.659	42.81	PK-U	33.2	-29.6	46.41	-	-	74	-27.59	-	-	210	144	V
	* 3.66	32.68	ADR	33.2	-29.6	36.28	54	-17.72	-	-	-	-	210	144	V
11	* 4.576	40.91	PK-U	34	-28.7	46.21	-	-	74	-27.79	-	-	245	230	V
	* 4.575	30.47	ADR	34	-28.7	35.77	54	-18.23	-	-	-	-	245	230	V
5	* 7.32	39.34	PK-U	35.5	-25.8	49.04	-	-	74	-24.96	-	-	221	172	H
	* 7.318	28.6	ADR	35.5	-25.8	38.3	54	-15.7	-	-	-	-	221	172	H
6	* 8.234	41.33	PK-U	35.8	-25.4	51.73	-	-	74	-22.27	-	-	178	156	H
	* 8.234	30.77	ADR	35.8	-25.4	41.17	54	-12.83	-	-	-	-	178	156	H
7	* 9.149	37.23	PK-U	36.1	-23.3	50.03	-	-	74	-23.97	-	-	183	196	H
	* 9.149	25.19	ADR	36.1	-23.2	38.09	54	-15.91	-	-	-	-	183	196	H
12	* 7.319	37.38	PK-U	35.5	-25.8	47.08	-	-	74	-26.92	-	-	219	221	V
	* 7.316	25.66	ADR	35.5	-25.7	35.46	54	-18.54	-	-	-	-	219	221	V
13	* 8.235	39.27	PK-U	35.8	-25.3	49.77	-	-	74	-24.23	-	-	192	177	V
	* 8.236	27.38	ADR	35.8	-25.3	37.88	54	-16.12	-	-	-	-	192	177	V
14	* 9.149	37.94	PK-U	36.1	-23.3	50.74	-	-	74	-23.26	-	-	165	205	V
	* 9.148	26.01	ADR	36.1	-23.2	38.91	54	-15.09	-	-	-	-	165	205	V
1	1.83	47.81	PK-U	30.4	-30.9	47.31	-	-	-	-	68.2	-20.89	149	200	H
8	1.83	56.87	PK-U	30.4	-30.9	56.37	-	-	-	-	68.2	-11.83	149	124	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

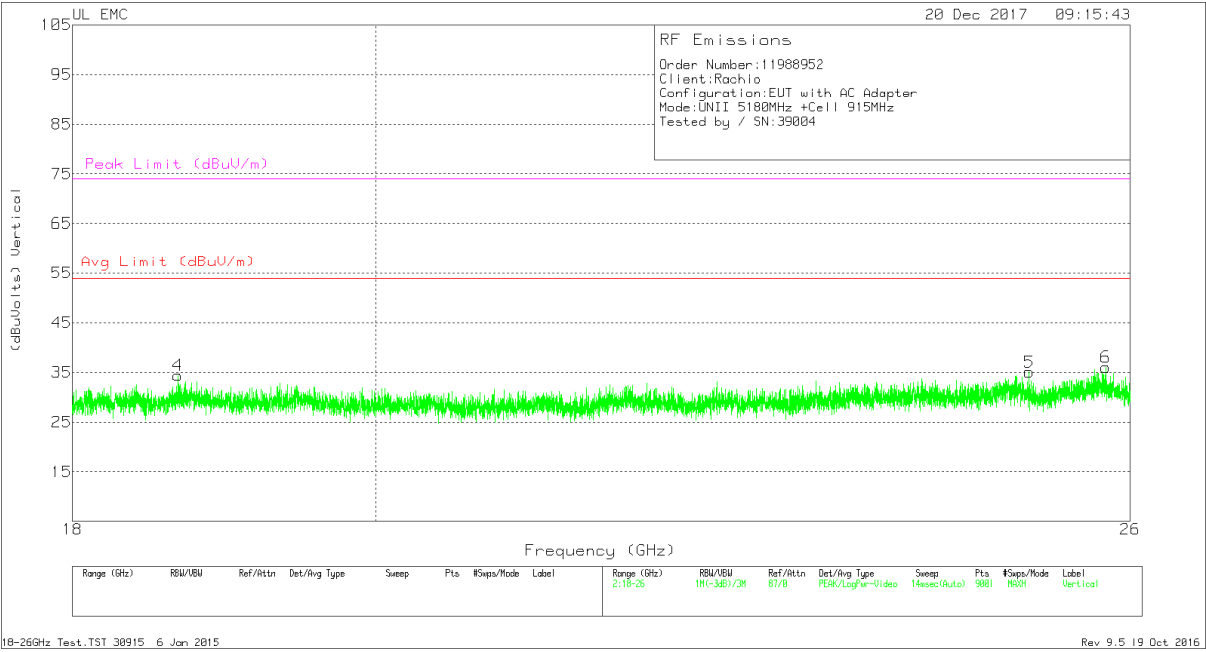
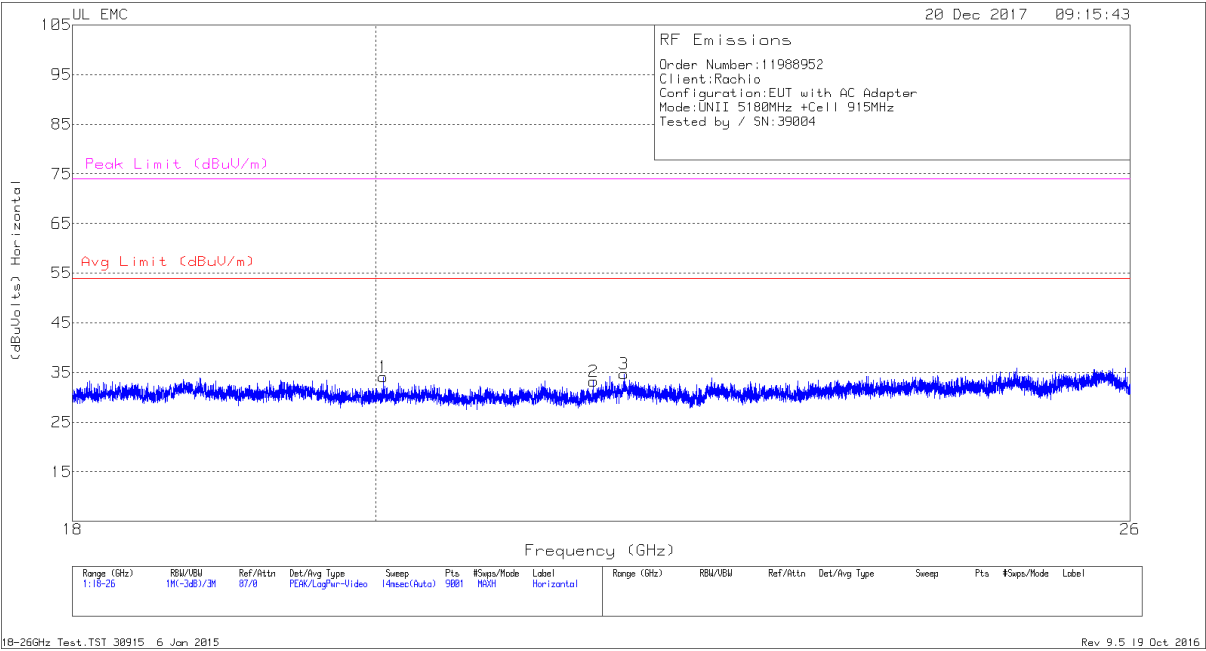
ADR - U-NII AD primary method, RMS average

FCC Part15C 5GHz UNII RSE.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

9.6.3. TX SPURIOUS EMISSIONS TEST 18GHz –26GHz

900MHz + UNII 5GHz



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T89 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	20.054	35.7	Pk	32.9	-25	-9.5	34.1	54	-19.9	74	-39.9
2	21.573	34.83	Pk	33.1	-25.2	-9.5	33.23	54	-20.77	74	-40.77
3	21.803	35.4	Pk	33.3	-24.5	-9.5	34.7	54	-19.3	74	-39.3
4	18.672	36.1	Pk	32.5	-24.7	-9.5	34.4	54	-19.6	74	-39.6
5	25.101	35.19	Pk	33.9	-24.5	-9.5	35.09	54	-18.91	74	-38.91
6	25.78	36.14	Pk	34.1	-24.7	-9.5	36.04	54	-17.96	74	-37.96

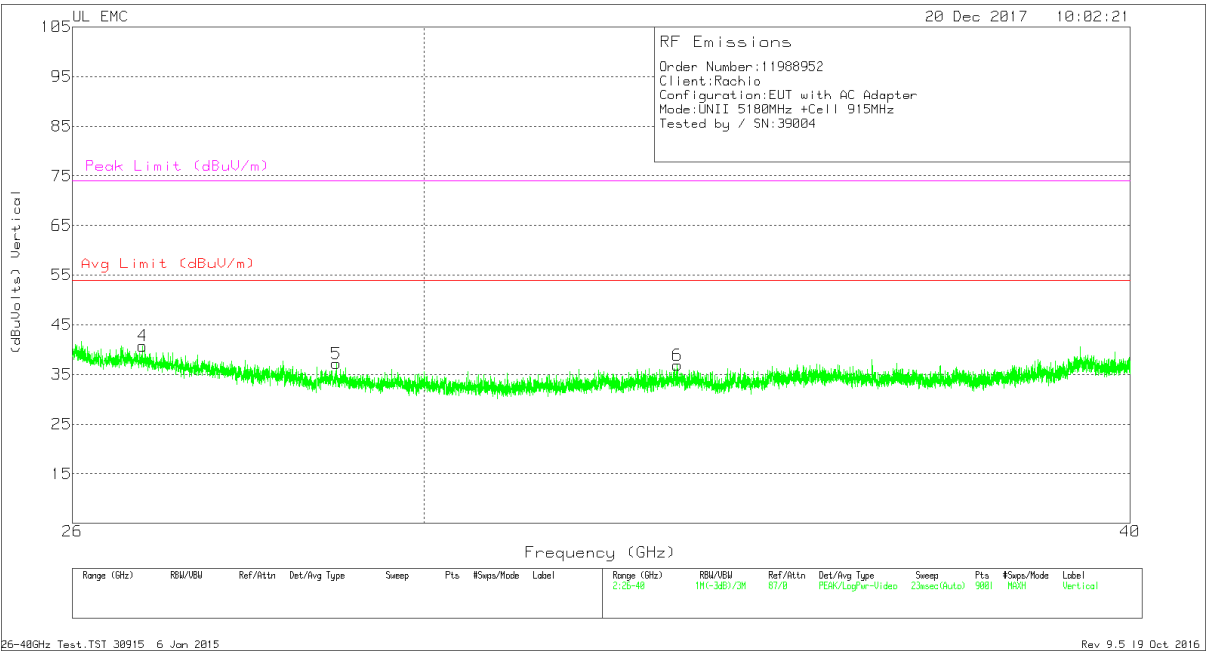
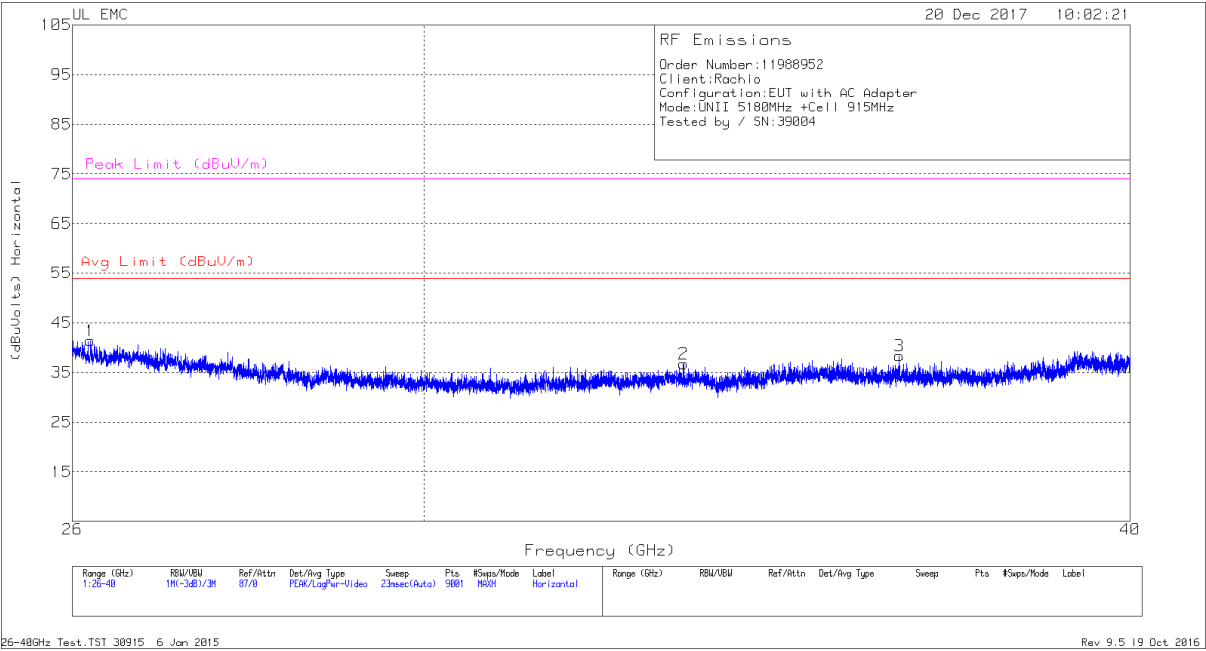
Pk - Peak detector

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9.6.4. TX SPURIOUS EMISSIONS TEST 26GHz – 40GHz

900MHz + UNII 5GHz



Trace Markers

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	26.19	46.08	Pk	35.6	-30.8	-9.5	41.38	54	-12.62	74	-32.62
2	33.345	41.93	Pk	37	-32.7	-9.5	36.73	54	-17.27	74	-37.27
3	36.408	43.63	Pk	37.2	-33	-9.5	38.33	54	-15.67	74	-35.67
4	26.753	45.73	Pk	35.3	-30.8	-9.5	40.73	54	-13.27	74	-33.27
5	28.948	42.68	Pk	35.9	-31.9	-9.5	37.18	54	-16.82	74	-36.82
6	33.261	42.31	Pk	36.9	-32.8	-9.5	36.91	54	-17.09	74	-37.09

Pk - Peak detector

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10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	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

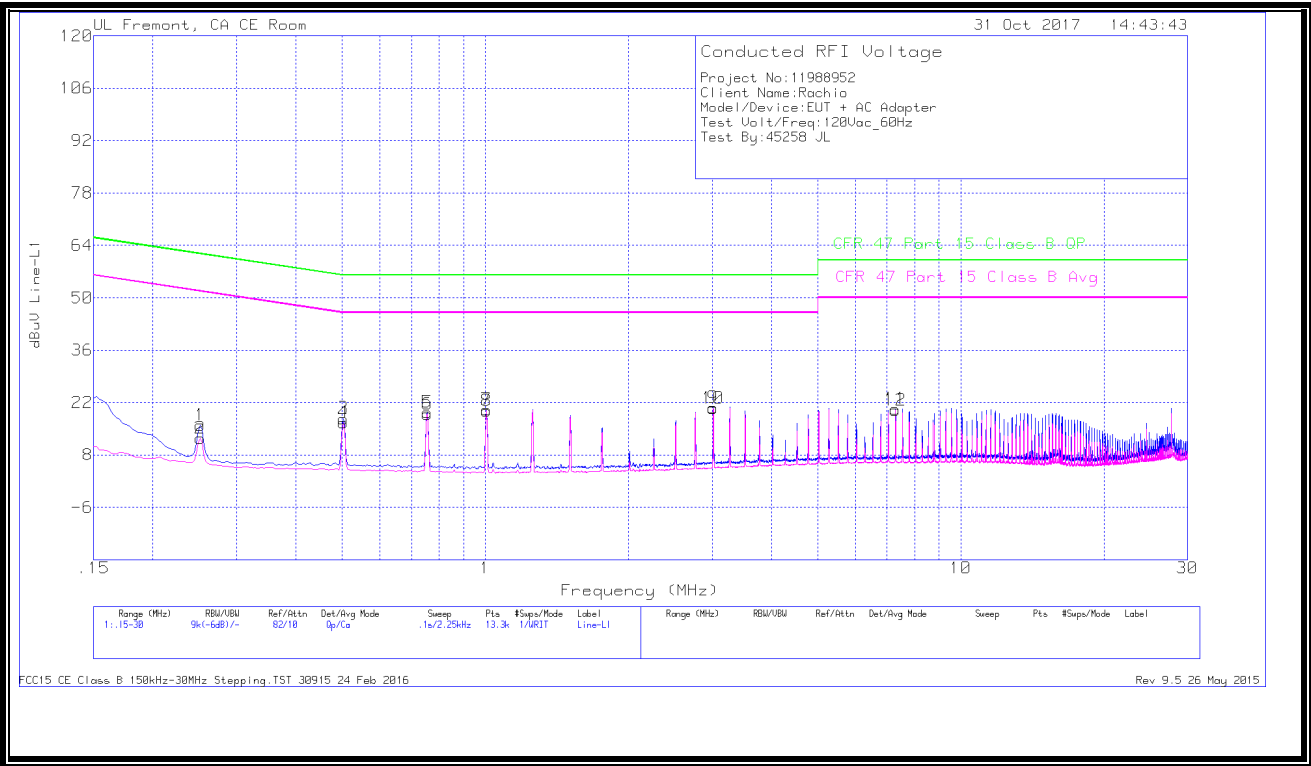
The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

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



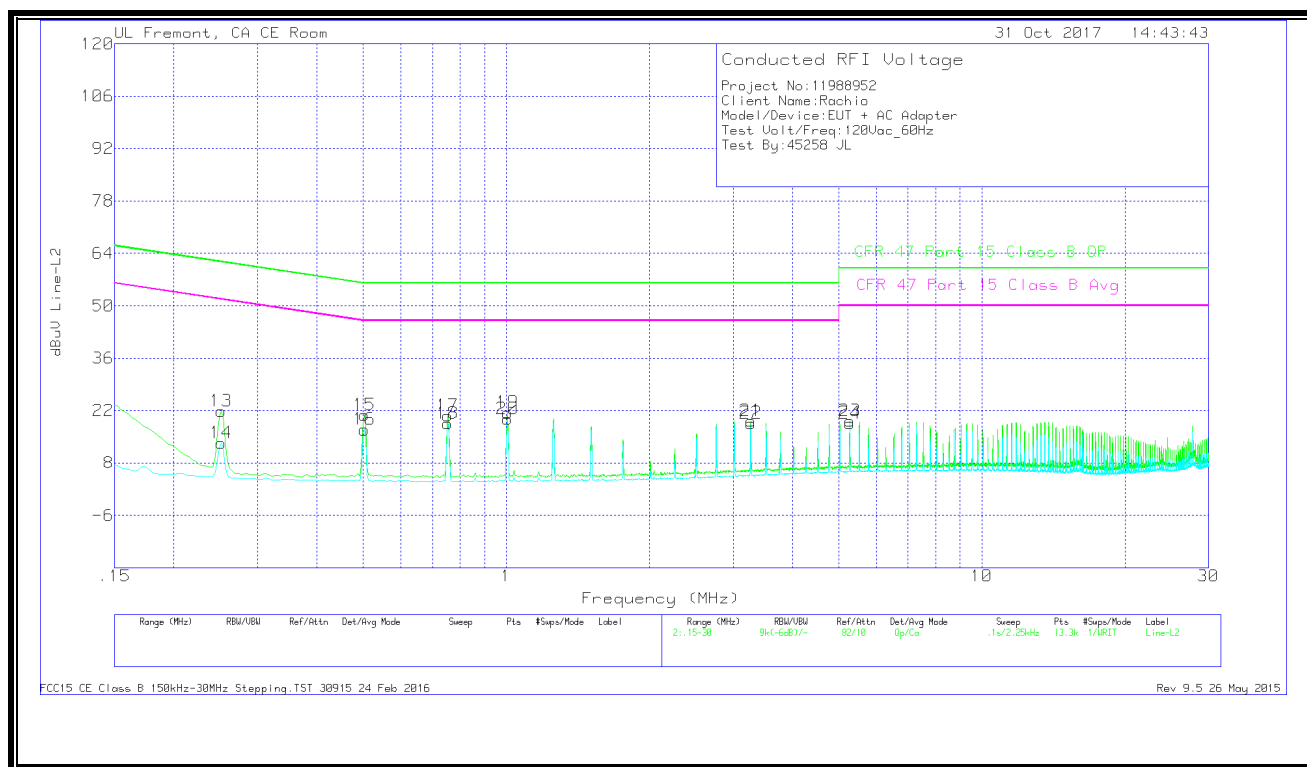
WORST EMISSIONS

Trace Markers

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
1	.25125	5.86	Qp	0	0	10.1	15.96	61.72	-45.76	-	-
2	.25125	2.41	Ca	0	0	10.1	12.51	-	-	51.72	-39.21
3	.50325	7.65	Qp	0	0	10.1	17.75	56	-38.25	-	-
4	.50325	6.47	Ca	0	0	10.1	16.57	-	-	46	-29.43
5	.75525	9.27	Qp	0	0	10.1	19.37	56	-36.63	-	-
6	.75525	8.77	Ca	0	0	10.1	18.87	-	-	46	-27.13
7	1.005	9.95	Qp	0	.1	10.1	20.15	56	-35.85	-	-
8	1.005	9.52	Ca	0	.1	10.1	19.72	-	-	46	-26.28
9	3.0165	10.43	Qp	0	.1	10.1	20.63	56	-35.37	-	-
10	3.0165	10.29	Ca	0	.1	10.1	20.49	-	-	46	-25.51
11	7.2915	9.94	Qp	0	.2	10.2	20.34	60	-39.66	-	-
12	7.2915	9.45	Ca	0	.2	10.2	19.85	-	-	50	-30.15

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
13	.25125	11.69	Qp	0	0	10.1	21.79	61.72	-39.93	-	-
14	.25125	3.16	Ca	0	0	10.1	13.26	-	-	51.72	-38.46
15	.50325	10.62	Qp	0	0	10.1	20.72	56	-35.28	-	-
16	.50325	6.79	Ca	0	0	10.1	16.89	-	-	46	-29.11
17	.753	10.57	Qp	0	0	10.1	20.67	56	-35.33	-	-
18	.753	8.36	Ca	0	0	10.1	18.46	-	-	46	-27.54
19	1.005	11.21	Qp	0	.1	10.1	21.41	56	-34.59	-	-
20	1.005	9.49	Ca	0	.1	10.1	19.69	-	-	46	-26.31
21	3.26625	8.91	Qp	0	.1	10.2	19.21	56	-36.79	-	-
22	3.26625	8.32	Ca	0	.1	10.2	18.62	-	-	46	-27.38
23	5.27775	9.01	Qp	0	.1	10.2	19.31	60	-40.69	-	-
24	5.27775	8.32	Ca	0	.1	10.2	18.62	-	-	50	-31.38

Qp - Quasi-Peak detector

Ca - CISPR average detection