HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 1.2	41.19	Pk	28	-36	0	33.19	-	-	74	-40.81	68.2	-35.01	0-360	100	H
4	* 1.2	39.99	Pk	28	-36	0	31.99	-	-	74	-42.01	68.2	-36.21	0-360	200	V
2	* 9.427	29.26	Pk	36.5	-24.4	0	41.36	-	-	74	-32.64	68.2	-26.84	0-360	100	H
3	* 12.086	27.28	Pk	38.8	-22.8	0	43.28	-	-	74	-30.72	68.2	-24.92	0-360	100	H
6	* 11.965	27.05	Pk	38.6	-22.4	0	43.25	-	-	74	-30.75	68.2	-24.95	0-360	100	V
5	2	40.86	Pk	31.1	-34.3	0	37.66	-	-	74	-36.34	68.2	-30.54	0-360	200	V

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 1.2	46.04	PK-U	28	-36	0	38.04	-	-	74	-35.96	-	-	125	107	H
* 1.2	37.48	ADR	28	-36	.18	29.66	54	-24.34	-	-	-	-	125	107	H
* 1.2	47.14	PK-U	28	-36	0	39.14	-	-	74	-34.86	-	-	250	236	V
* 1.2	39.06	ADR	28	-36	.18	31.24	54	-22.76	-	-	-	-	250	236	V
* 9.427	36.12	PK-U	36.5	-24.4	0	48.22	-	-	74	-25.78	-	-	42	109	H
* 9.429	23.95	ADR	36.5	-24.4	.18	36.23	54	-17.77	-	-	-	-	42	109	H
* 12.087	33.77	PK-U	38.8	-22.8	0	49.77	-	-	74	-24.23	-	-	42	170	H
* 12.085	22.54	ADR	38.8	-22.8	.18	38.72	54	-15.28	-	-	-	-	42	170	H
* 11.966	33.07	PK-U	38.6	-22.4	0	49.27	-	-	74	-24.73	-	-	95	144	V
* 11.967	22.58	ADR	38.6	-22.4	.18	38.96	54	-15.04	-	-	-	-	95	144	V
2	46.83	PK-U	31.1	-34.4	0	43.53	-	-	-	-	68.2	-24.67	10	125	V
2	39.17	ADR	31.1	-34.4	.18	36.05	-	-	-	-	-	-	10	125	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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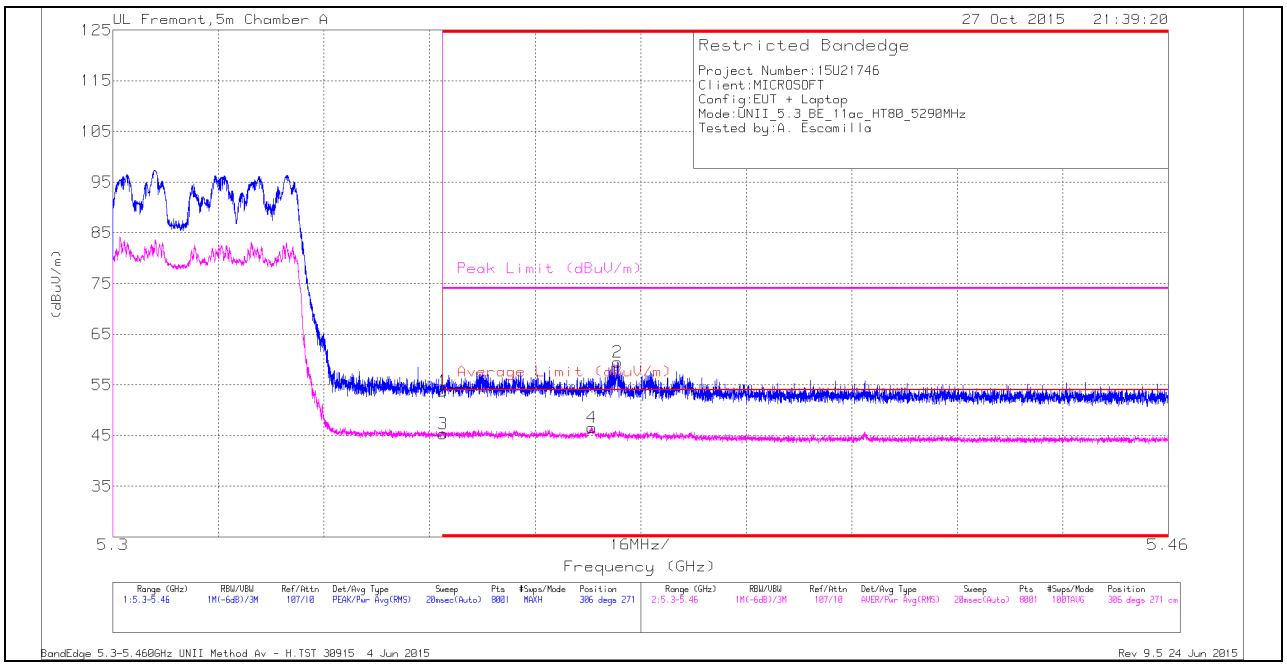
9.2.4. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Flt r/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	* 5.35	39.41	Pk	34.6	-20.2	0	53.81	-	-	74	-20.19	306	271	H
3	* 5.35	30.72	RMS	34.6	-20.2	.23	45.35	54	-8.65	-	-	306	271	H
4	* 5.373	31.72	RMS	34.6	-20	.23	46.55	54	-7.45	-	-	306	271	H
2	* 5.376	44.96	Pk	34.6	-20.1	0	59.46	-	-	74	-14.54	306	271	H

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

Pk - Peak detector

RMS - RMS detection

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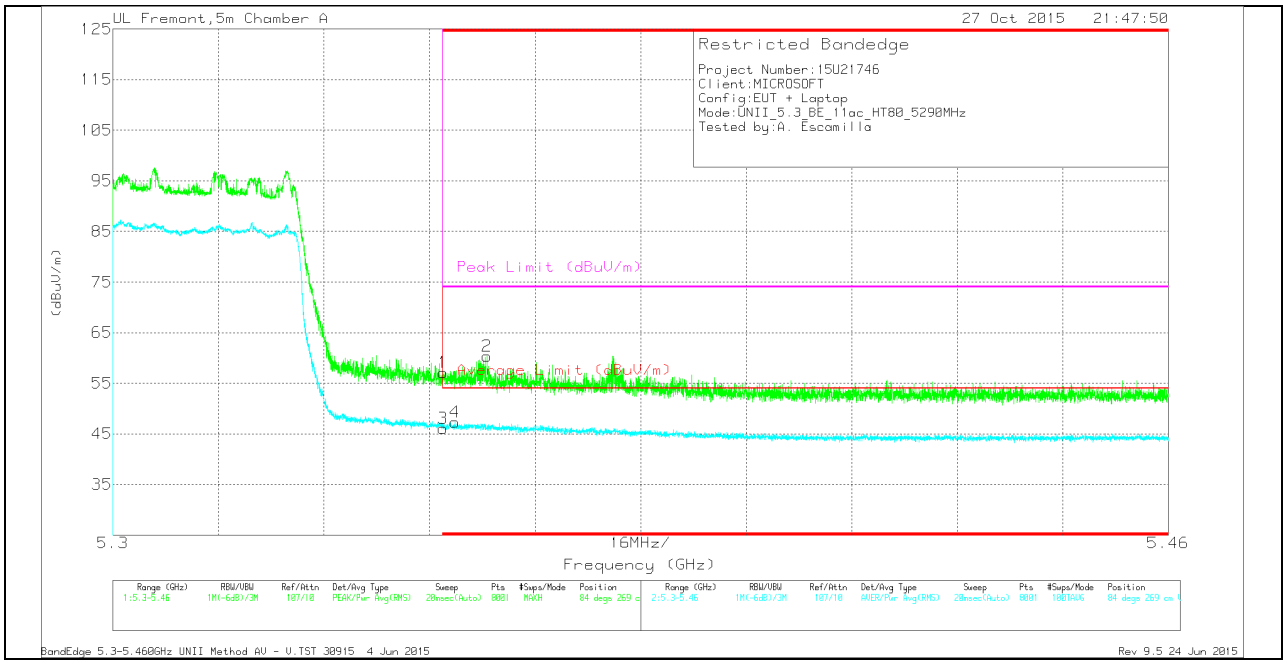
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Flt r/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	* 5.35	42.75	Pk	34.6	-20.2	0	57.15	-	-	74	-16.85	84	269	V
3	* 5.35	31.46	RMS	34.6	-20.2	.23	46.09	54	-7.91	-	-	84	269	V
4	* 5.352	32.65	RMS	34.6	-20.2	.23	47.28	54	-6.72	-	-	84	269	V
2	* 5.357	45.84	Pk	34.6	-20.1	0	60.34	-	-	74	-13.66	84	269	V

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

Pk - Peak detector

RMS - RMS detection

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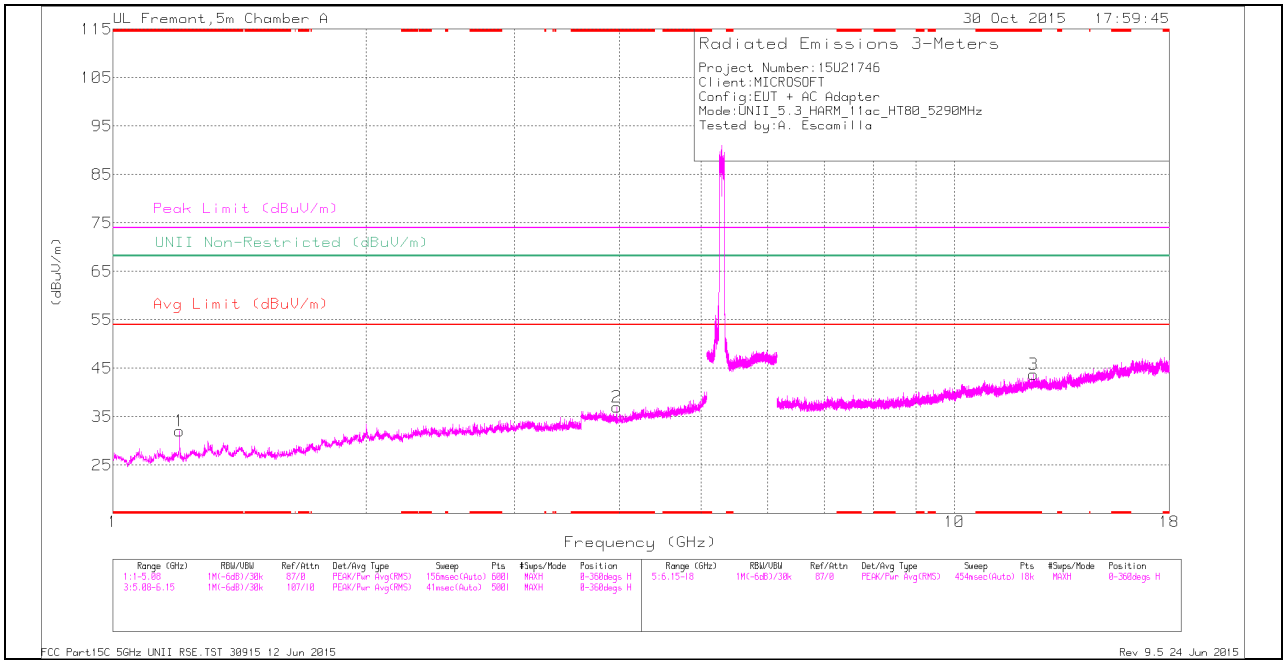
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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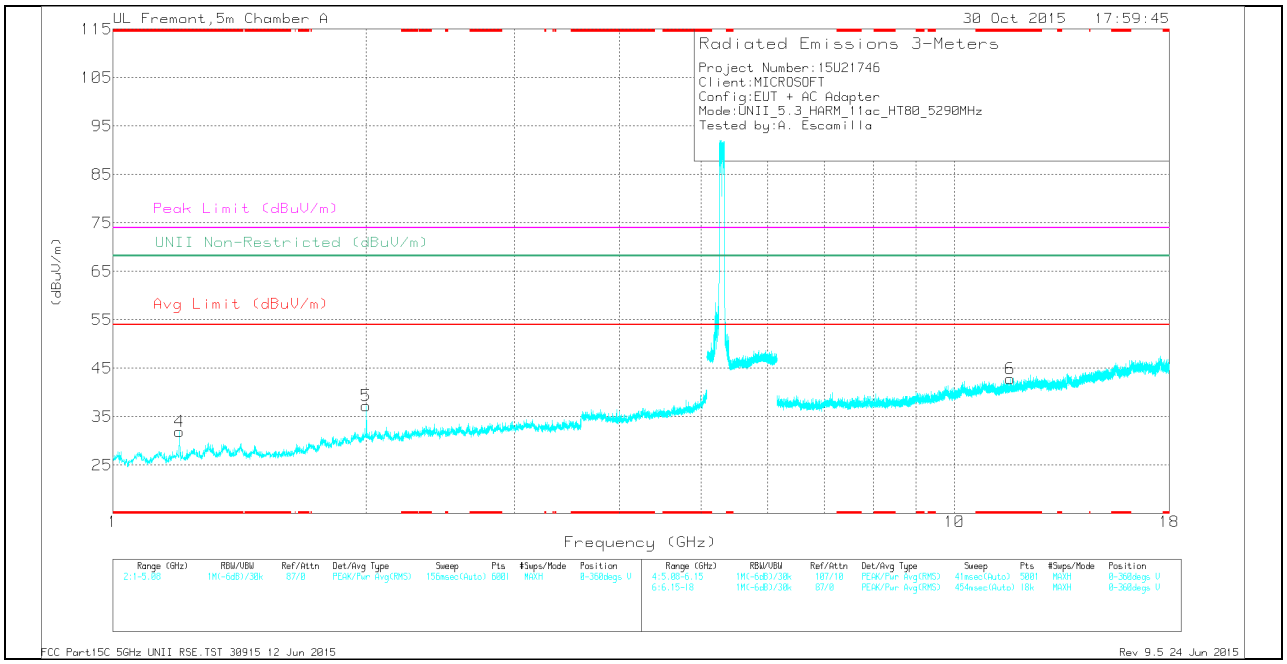
LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 1.2	40.11	Pk	28	-36	0	32.11	-	-	74	-41.89	68.2	-36.09	0-360	100	H
2	* 3.968	35.4	Pk	33.4	-31.8	0	37	-	-	74	-37	68.2	-31.2	0-360	100	H
4	* 1.2	39.98	Pk	28	-36	0	31.98	-	-	74	-42.02	68.2	-36.22	0-360	200	V
3	* 12.412	27.4	Pk	39	-22.7	0	43.7	-	-	74	-30.3	68.2	-24.5	0-360	201	H
6	* 11.653	27.09	Pk	38.2	-22.4	0	42.89	-	-	74	-31.11	68.2	-25.31	0-360	100	V
5	2	40.55	Pk	31.1	-34.4	0	37.25	-	-	74	-36.75	68.2	-30.95	0-360	100	V

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 1.2	46.48	PK-U	28	-36	0	38.48	-	-	74	-35.52	-	-	132	110	H
* 1.2	37.82	ADR	28	-36	.23	30.05	54	-23.95	-	-	-	-	132	110	H
* 3.967	41.91	PK-U	33.4	-31.8	0	43.51	-	-	74	-30.49	-	-	145	103	H
* 3.968	31.66	ADR	33.4	-31.8	.23	33.49	54	-20.51	-	-	-	-	145	103	H
* 1.2	46.49	PK-U	28	-36	0	38.49	-	-	74	-35.51	-	-	257	226	V
* 1.2	38.6	ADR	28	-36	.23	30.83	54	-23.17	-	-	-	-	257	226	V
* 12.412	33.69	PK-U	39	-22.7	0	49.99	-	-	74	-24.01	-	-	53	154	H
* 12.41	22.99	ADR	39	-22.7	.23	39.52	54	-14.48	-	-	-	-	53	154	H
* 11.654	34.33	PK-U	38.2	-22.4	0	50.13	-	-	74	-23.87	-	-	4	124	V
* 11.654	22.99	ADR	38.2	-22.4	.23	39.02	54	-14.98	-	-	-	-	4	124	V
2	46.25	PK-U	31.1	-34.4	0	42.95	-	-	-	-	68.2	-25.25	12	131	V
2	39.31	ADR	31.1	-34.4	.23	36.24	-	-	-	-	-	-	12	131	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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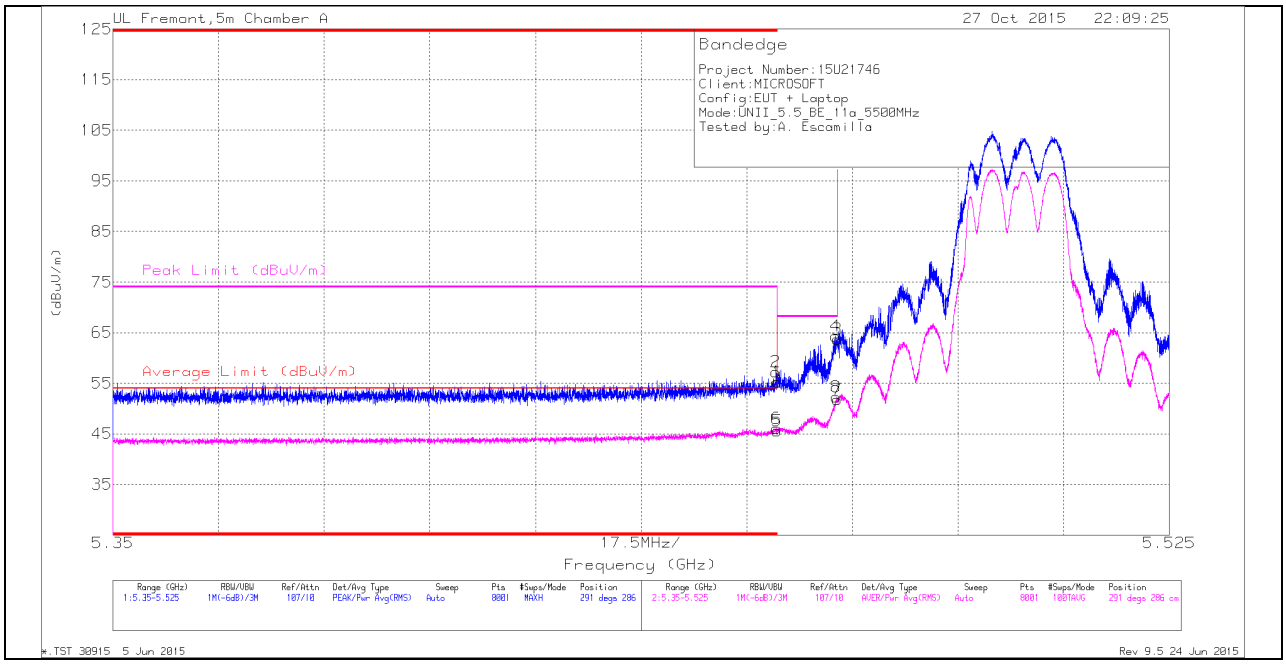
9.3. 5.5-5.6 GHz

9.3.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.5 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Flt r/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	41	Pk	34.5	-20.2	0	55.3	-	-	74	-18.7	291	286	H
2	* 5.46	42.99	Pk	34.5	-20.2	0	57.29	-	-	74	-16.71	291	286	H
5	* 5.46	31.31	RMS	34.5	-20.2	0	45.61	54	-8.39	-	-	291	286	H
6	* 5.46	31.79	RMS	34.5	-20.2	0	46.09	54	-7.91	-	-	291	286	H
3	5.47	49.32	Pk	34.5	-20.1	0	63.72	-	-	68.2	-4.48	291	286	H
4	5.47	49.88	Pk	34.5	-20.1	0	64.28	-	-	68.2	-3.92	291	286	H
7	5.47	37.35	RMS	34.5	-20.1	0	51.75	-	-	-	-	291	286	H
8	5.47	37.88	RMS	34.5	-20.1	0	52.28	-	-	-	-	291	286	H

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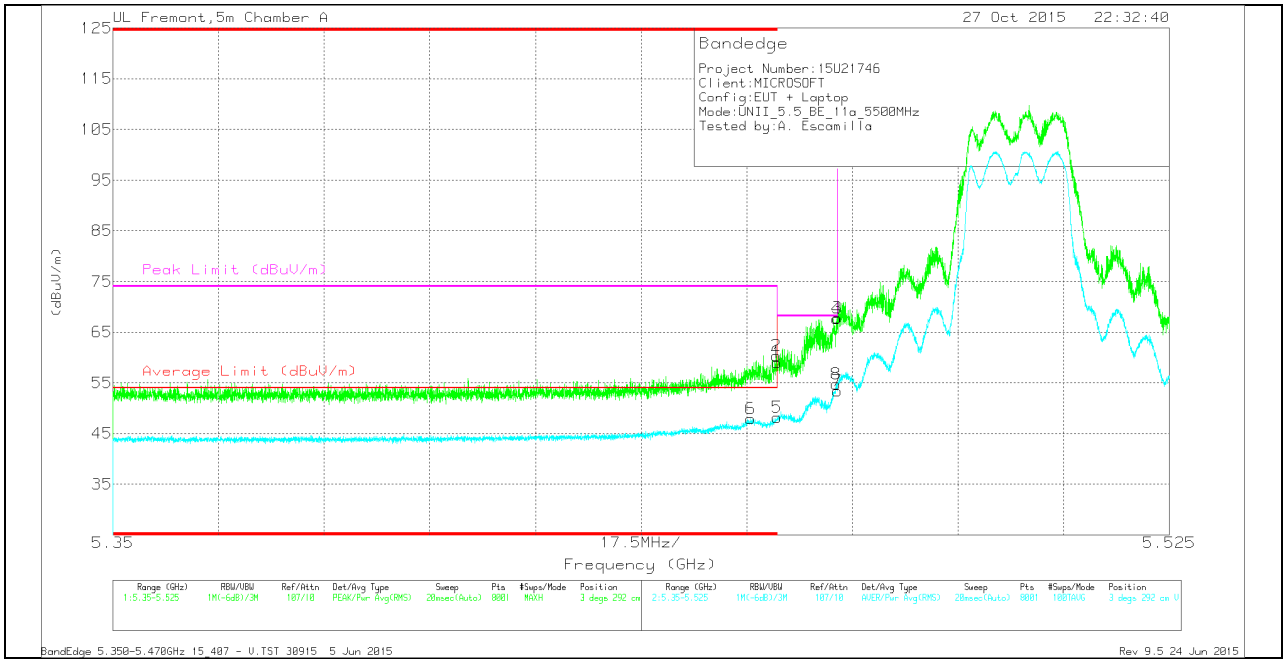
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Flt r/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	44.74	Pk	34.5	-20.2	0	59.04	-	-	74	-14.96	3	292	V
2	* 5.46	46.07	Pk	34.5	-20.2	0	60.37	-	-	74	-13.63	3	292	V
5	* 5.46	33.88	RMS	34.5	-20.2	0	48.18	54	-5.82	-	-	3	292	V
6	* 5.456	33.65	RMS	34.5	-20.2	0	47.95	54	-6.05	-	-	3	292	V
3	5.47	53.36	Pk	34.5	-20.1	0	67.76	-	-	68.2	-.44	3	292	V
4	5.47	53.23	Pk	34.5	-20.1	0	67.63	-	-	68.2	-.57	3	292	V
7	5.47	39.03	RMS	34.5	-20.1	0	53.43	-	-	-	-	3	292	V
8	5.47	40.36	RMS	34.5	-20.1	0	54.76	-	-	-	-	3	292	V

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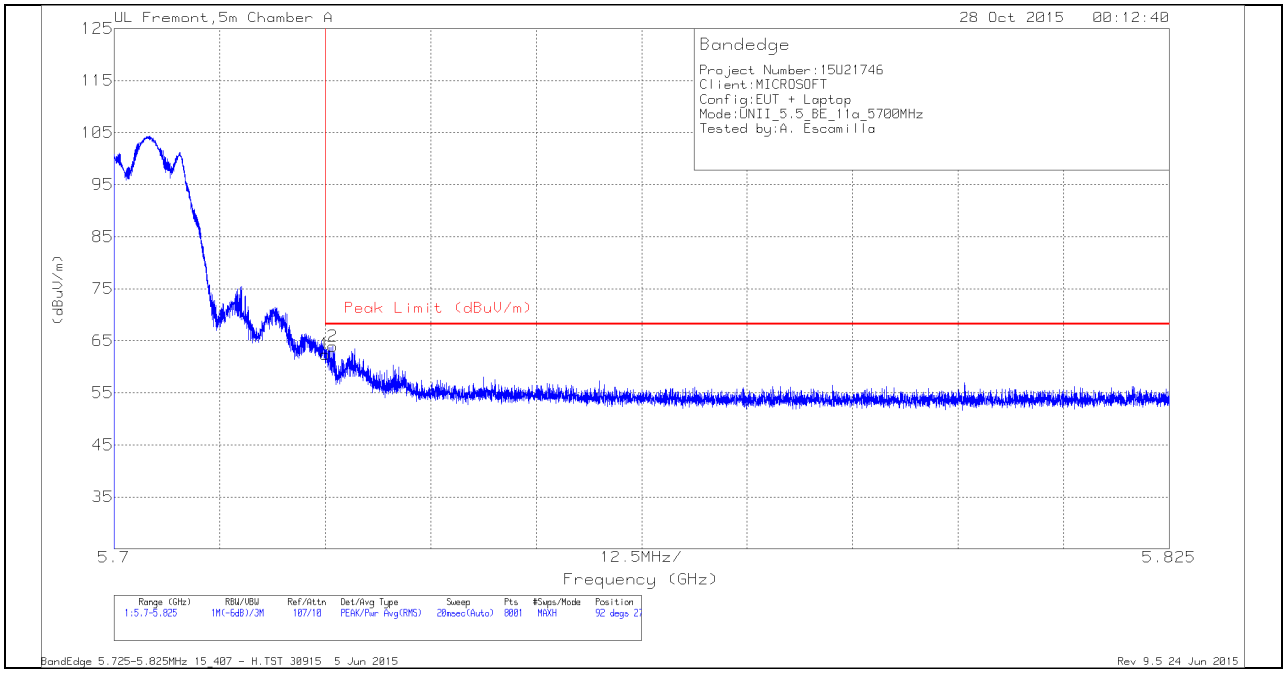
AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	47.53	Pk	34.7	-19.8	62.43	68.2	-5.77	92	271	H
2	5.726	49.02	Pk	34.7	-19.8	63.92	68.2	-4.28	92	271	H

Pk - Peak detector

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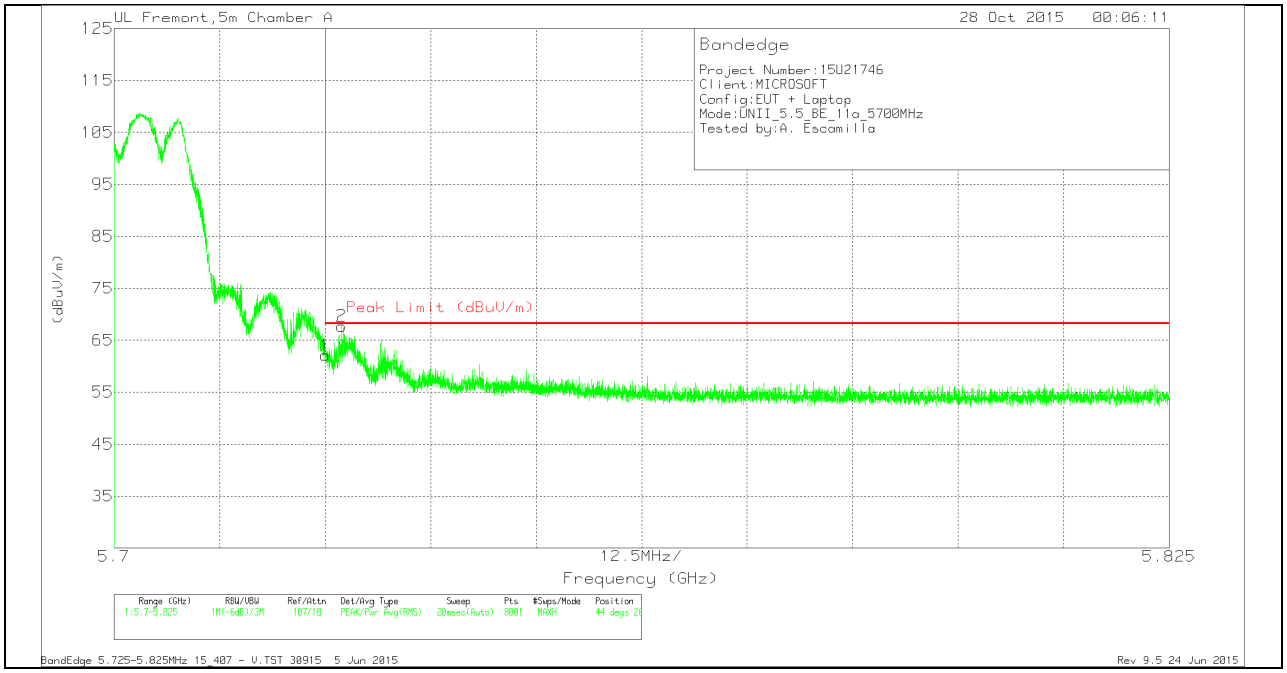
VERTICAL PEAK PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	47.25	Pk	34.7	-19.8	62.15	68.2	-6.05	44	268	V
2	5.727	52.84	Pk	34.7	-19.8	67.74	68.2	-.46	44	268	V

Pk - Peak detector

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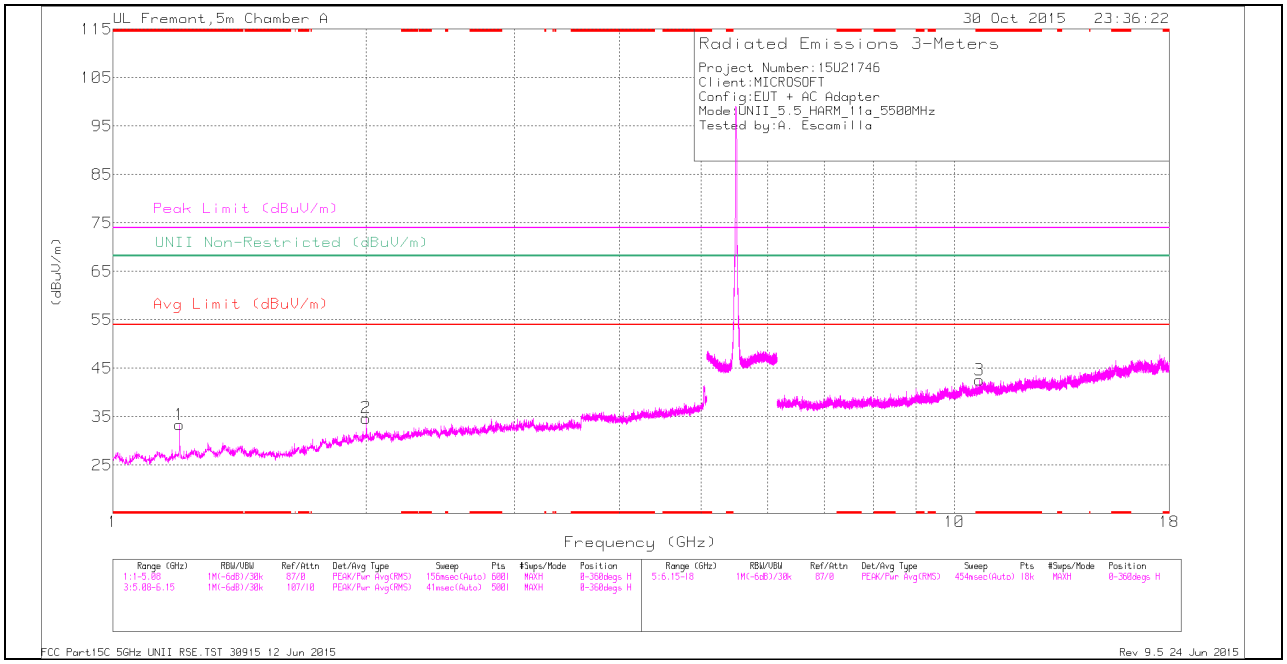
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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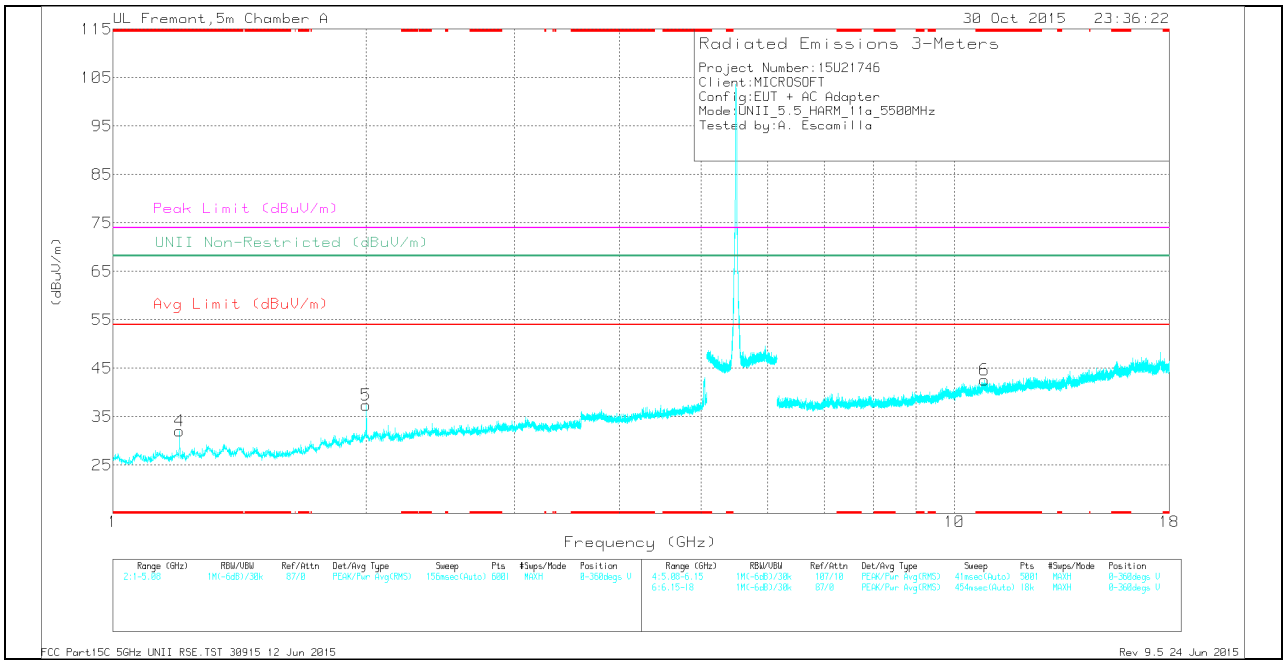
LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 1.2	41.35	Pk	28	-36	0	33.35	-	-	74	-40.65	68.2	-34.85	0-360	100	H
4	* 1.2	40.07	Pk	28	-36	0	32.07	-	-	74	-41.93	68.2	-36.13	0-360	200	V
3	* 10.709	27.78	Pk	37.8	-23	0	42.58	-	-	74	-31.42	68.2	-25.62	0-360	201	H
6	* 10.861	26.76	Pk	37.8	-22	0	42.56	-	-	74	-31.44	68.2	-25.64	0-360	200	V
2	2	38.03	Pk	31.1	-34.4	0	34.73	-	-	74	-39.27	68.2	-33.47	0-360	100	H
5	2	40.61	Pk	31.1	-34.3	0	37.41	-	-	74	-36.59	68.2	-30.79	0-360	100	V

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 1.2	46.12	PK-U	28	-36	0	38.12	-	-	74	-35.88	-	-	125	110	H
* 1.2	37.66	ADR	28	-36	0	29.66	54	-24.34	-	-	-	-	125	110	H
* 1.2	46.11	PK-U	28	-36	0	38.11	-	-	74	-35.89	-	-	254	245	V
* 1.2	37.58	ADR	28	-36	0	29.58	54	-24.42	-	-	-	-	254	245	V
* 10.71	34.49	PK-U	37.8	-23	0	49.29	-	-	74	-24.71	-	-	38	186	H
* 10.708	23.34	ADR	37.8	-23	0	38.14	54	-15.86	-	-	-	-	38	186	H
* 10.861	33.76	PK-U	37.8	-22	0	49.56	-	-	74	-24.44	-	-	96	211	V
* 10.862	22.95	ADR	37.8	-22	0	38.75	54	-15.25	-	-	-	-	96	211	V
2	45.16	PK-U	31.1	-34.4	0	41.86	-	-	-	-	68.2	-26.34	113	301	H
2	36	ADR	31.1	-34.4	0	32.7	-	-	-	-	-	-	113	301	H
2	46.57	PK-U	31.1	-34.4	0	43.27	-	-	-	-	68.2	-24.93	9	126	V
2	39.32	ADR	31.1	-34.4	0	36.02	-	-	-	-	-	-	9	126	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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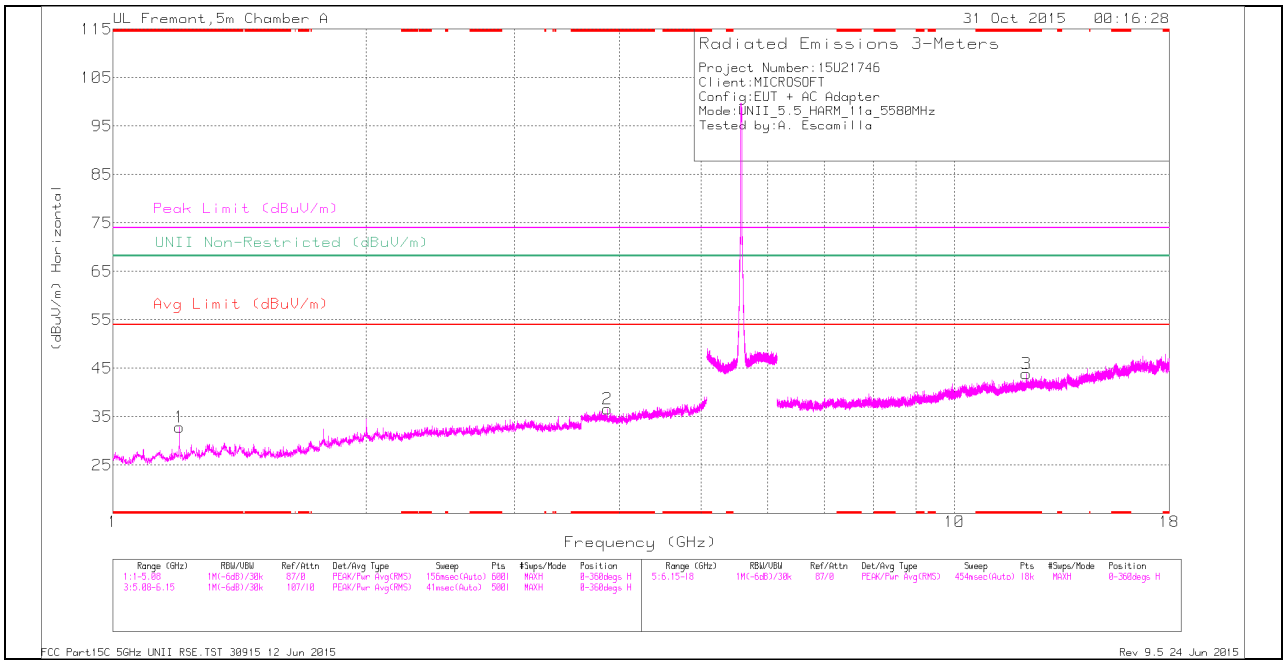
MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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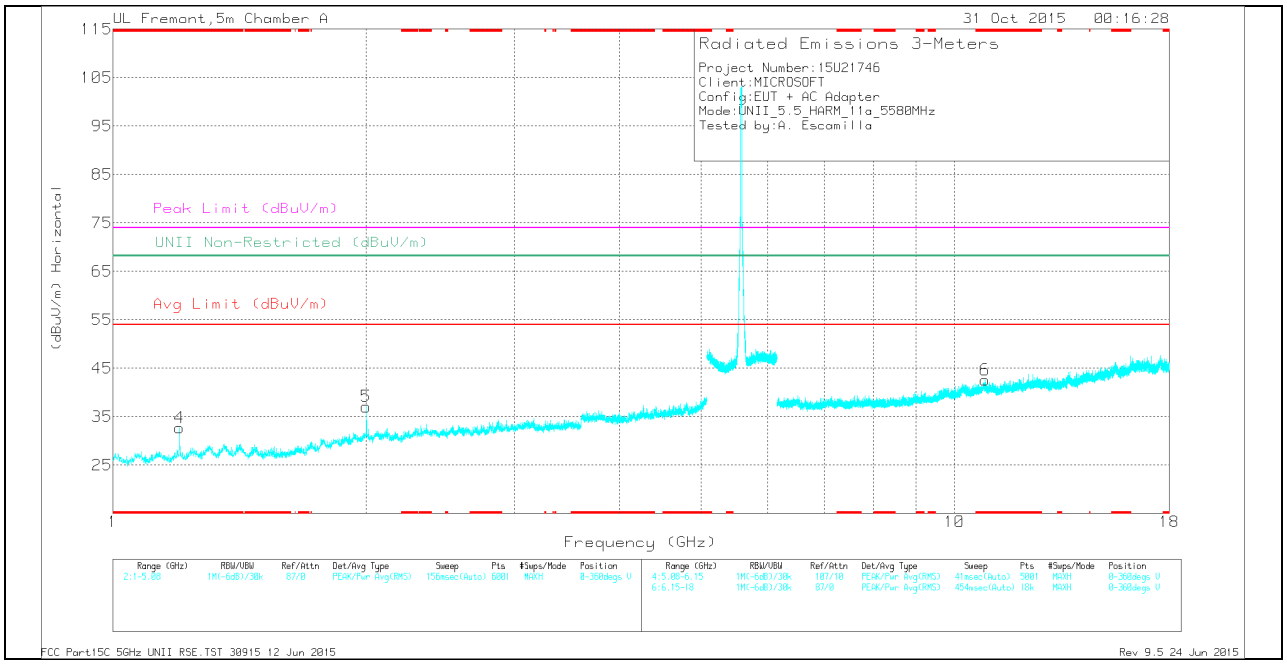
MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 1.2	40.82	Pk	28	-36	0	32.82	-	-	74	-41.18	68.2	-35.38	0-360	100	H
2	* 3.866	35.17	Pk	33.5	-32.1	0	36.57	-	-	74	-37.43	68.2	-31.63	0-360	100	H
4	* 1.2	40.69	Pk	28	-36	0	32.69	-	-	74	-41.31	68.2	-35.51	0-360	200	V
3	* 12.169	27.89	Pk	38.8	-22.8	0	43.89	-	-	74	-30.11	68.2	-24.31	0-360	201	H
6	* 10.88	26.94	Pk	37.8	-22.1	0	42.64	-	-	74	-31.36	68.2	-25.56	0-360	200	V
5	2	40.37	Pk	31.1	-34.4	0	37.07	-	-	74	-36.93	68.2	-31.13	0-360	200	V

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 1.2	46.6	PK-U	28	-36	0	38.6	-	-	74	-35.4	-	-	125	106	H
* 1.2	37.33	ADR	28	-36	0	29.33	54	-24.67	-	-	-	-	125	106	H
* 3.865	42.15	PK-U	33.5	-32.1	0	43.55	-	-	74	-30.45	-	-	249	194	H
* 3.868	30.52	ADR	33.5	-32.2	0	31.82	54	-22.18	-	-	-	-	249	194	H
* 1.2	46.7	PK-U	28	-36	0	38.7	-	-	74	-35.3	-	-	251	241	V
* 1.2	37.48	ADR	28	-36	0	29.48	54	-24.52	-	-	-	-	251	241	V
* 12.169	34.31	PK-U	38.8	-22.8	0	50.31	-	-	74	-23.69	-	-	116	180	H
* 12.171	22.76	ADR	38.8	-22.8	0	38.76	54	-15.24	-	-	-	-	116	180	H
* 10.879	34.48	PK-U	37.8	-22.1	0	50.18	-	-	74	-23.82	-	-	181	223	V
* 10.878	23.04	ADR	37.8	-22.1	0	38.74	54	-15.26	-	-	-	-	181	223	V
2	46.53	PK-U	31.1	-34.4	0	43.23	-	-	-	-	68.2	-24.97	4	119	V
2	38.85	ADR	31.1	-34.4	0	35.55	-	-	-	-	-	-	4	119	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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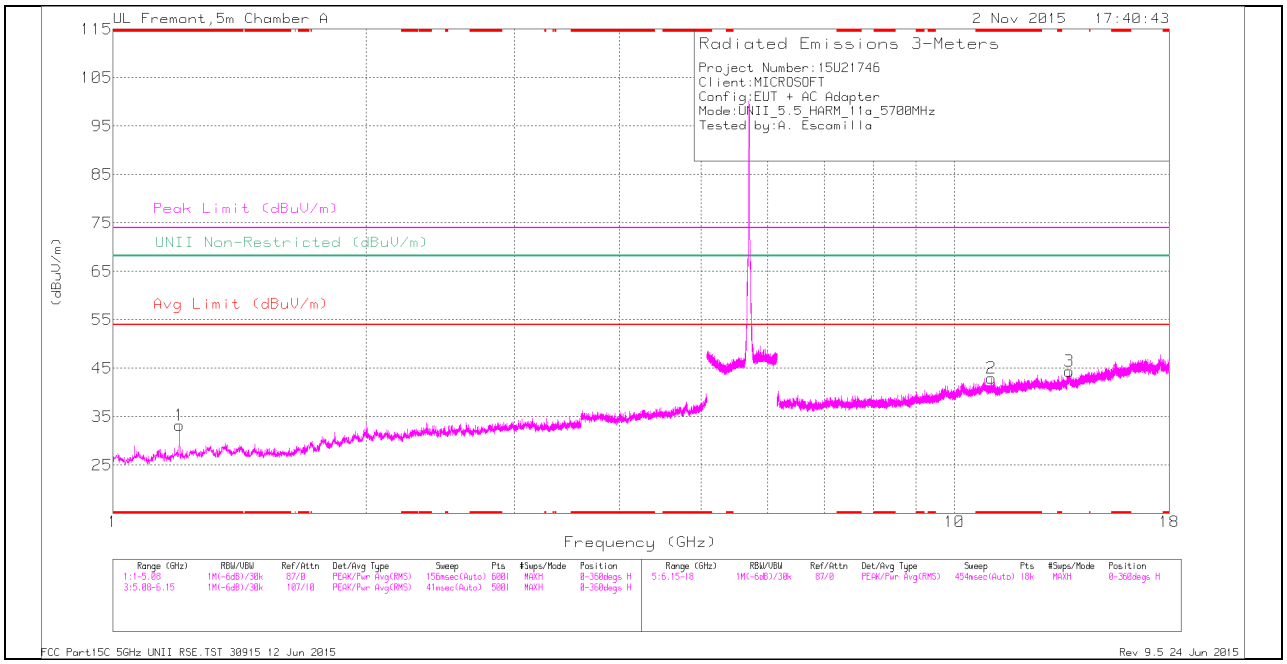
HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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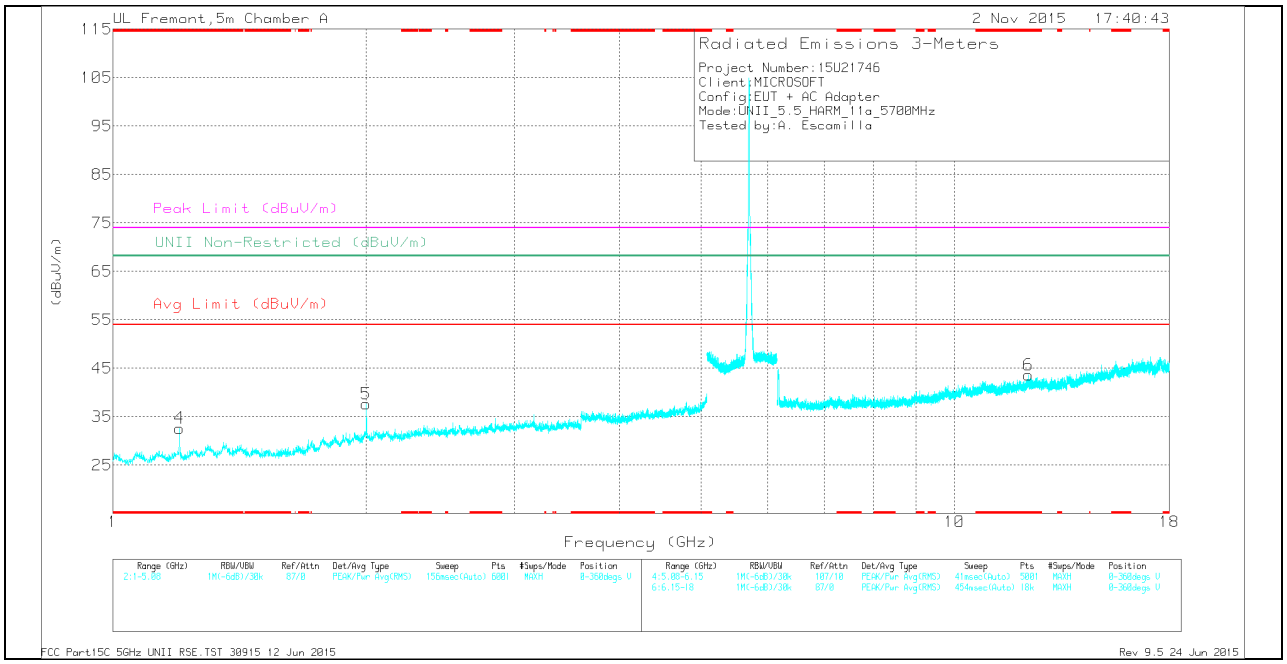
HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 1.2	41.22	Pk	28	-36	0	33.22	-	-	74	-40.78	68.2	-34.98	0-360	100	H
4	* 1.2	40.65	Pk	28	-36	0	32.65	-	-	74	-41.35	68.2	-35.55	0-360	200	V
2	* 11.066	27.88	Pk	37.9	-22.8	0	42.98	-	-	74	-31.02	68.2	-25.22	0-360	100	H
6	* 12.241	27.07	Pk	38.9	-22.3	0	43.67	-	-	74	-30.33	68.2	-24.53	0-360	200	V
5	2	40.87	Pk	31.1	-34.3	0	37.67	-	-	74	-36.33	68.2	-30.53	0-360	200	V
3	13.695	28.15	Pk	38.7	-22.4	0	44.45	-	-	74	-29.55	68.2	-23.75	0-360	201	H

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 1.2	47.03	PK-U	28	-36	0	39.03	-	-	74	-34.97	-	-	163	106	H
* 1.2	39.33	ADR	28	-36	0	31.33	54	-22.67	-	-	-	-	163	106	H
* 1.2	47.44	PK-U	28	-36	0	39.44	-	-	74	-34.56	-	-	65	236	V
* 1.2	39.76	ADR	28	-36	0	31.76	54	-22.24	-	-	-	-	65	236	V
* 11.064	34.7	PK-U	37.9	-22.8	0	49.8	-	-	74	-24.2	-	-	58	149	H
* 11.067	23.1	ADR	37.9	-22.8	0	38.2	54	-15.8	-	-	-	-	58	149	H
* 12.239	33.37	PK-U	38.9	-22.4	0	49.87	-	-	74	-24.13	-	-	3	217	V
* 12.239	22.8	ADR	38.9	-22.4	0	39.3	54	-14.7	-	-	-	-	3	217	V
2	46.42	PK-U	31.1	-34.4	0	43.12	-	-	-	-	68.2	-25.08	1	189	V
2	38.59	ADR	31.1	-34.4	0	35.29	-	-	-	-	-	-	1	189	V
13.695	23.61	ADR	38.7	-22.4	0	39.91	-	-	-	-	-	-	123	173	H
13.696	34.53	PK-U	38.7	-22.5	0	50.73	-	-	-	-	68.2	-17.47	123	173	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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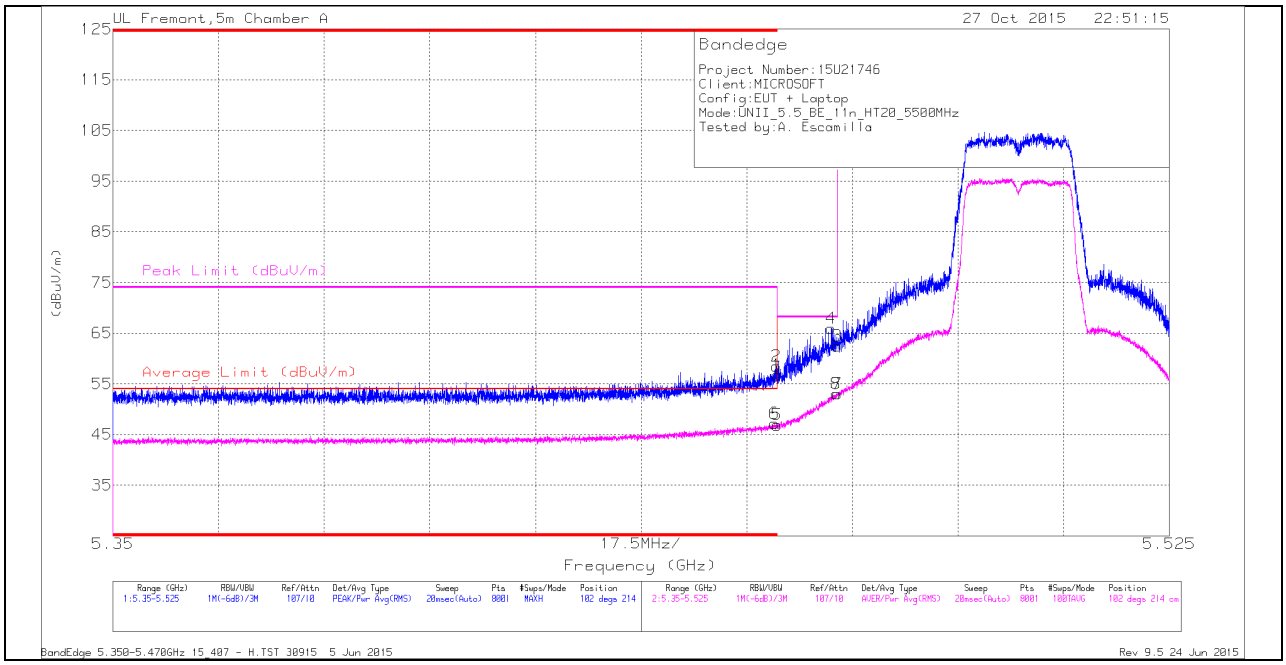
9.3.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.5 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Flt r/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	42.5	Pk	34.5	-20.2	0	56.8	-	-	74	-17.2	102	214	H
2	* 5.46	44.19	Pk	34.5	-20.2	0	58.49	-	-	74	-15.51	102	214	H
5	* 5.46	32.48	RMS	34.5	-20.2	.1	46.88	54	-7.12	-	-	102	214	H
6	* 5.46	32.77	RMS	34.5	-20.2	.1	47.17	54	-6.83	-	-	102	214	H
4	5.469	51.57	Pk	34.5	-20.1	0	65.97	-	-	68.2	-2.23	102	214	H
3	5.47	48.02	Pk	34.5	-20.1	0	62.42	-	-	68.2	-5.78	102	214	H
7	5.47	38.52	RMS	34.5	-20.1	.1	53.02	-	-	-	-	102	214	H
8	5.47	38.54	RMS	34.5	-20.1	.1	53.04	-	-	-	-	102	214	H

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

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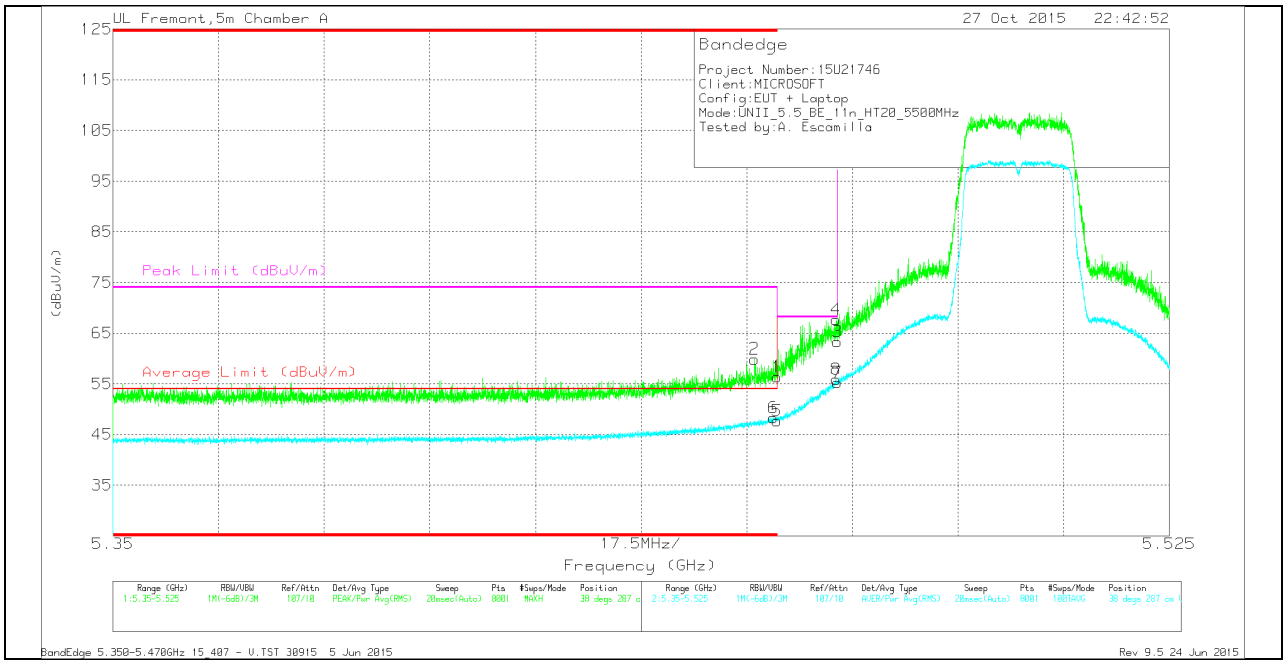
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Flt r/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	42.02	Pk	34.5	-20.2	0	56.32	-	-	74	-17.68	38	287	V
2	* 5.456	45.61	Pk	34.5	-20.2	0	59.91	-	-	74	-14.09	38	287	V
5	* 5.46	33.3	RMS	34.5	-20.2	.1	47.7	54	-6.3	-	-	38	287	V
6	* 5.459	33.96	RMS	34.5	-20.2	.1	48.36	54	-5.64	-	-	38	287	V
3	5.47	48.91	Pk	34.5	-20.1	0	63.31	-	-	68.2	-4.89	38	287	V
4	5.47	53.33	Pk	34.5	-20.1	0	67.73	-	-	68.2	-.47	38	287	V
7	5.47	40.8	RMS	34.5	-20.1	.1	55.3	-	-	-	-	38	287	V
8	5.47	41.34	RMS	34.5	-20.1	.1	55.84	-	-	-	-	38	287	V

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

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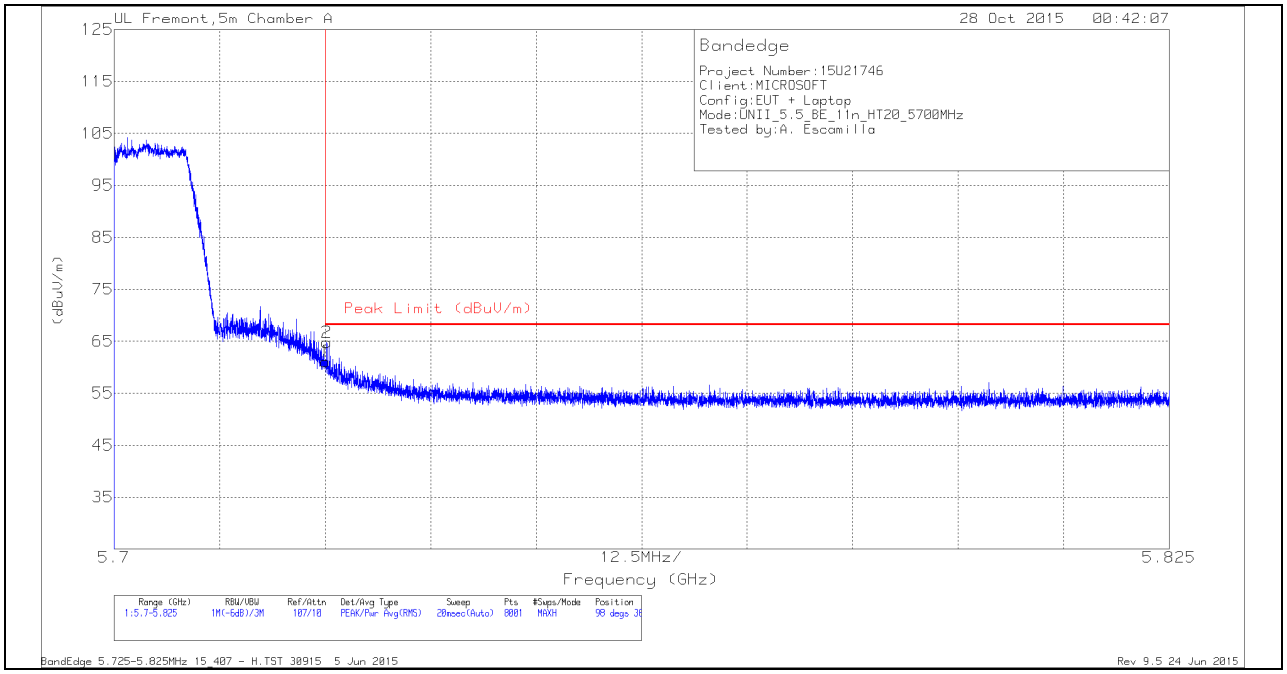
AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	46.17	Pk	34.7	-19.8	61.07	68.2	-7.13	98	367	H
2	5.725	49.89	Pk	34.7	-19.8	64.79	68.2	-3.41	98	367	H

Pk - Peak detector

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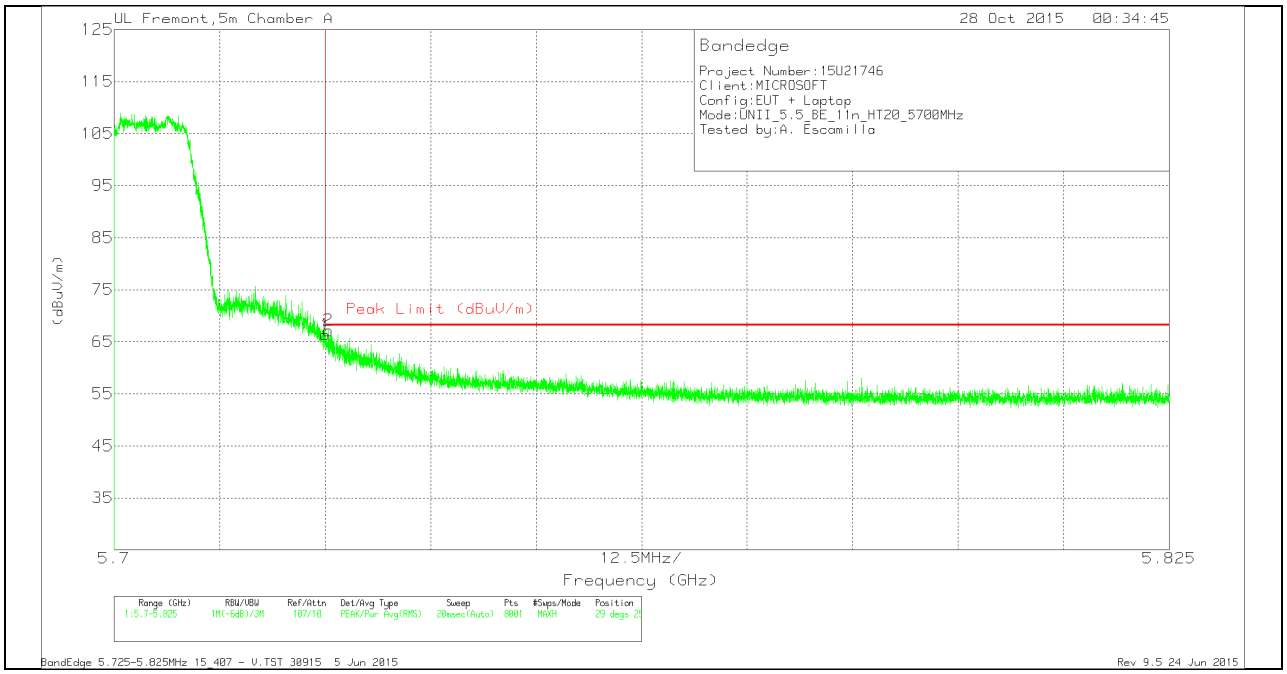
VERTICAL PEAK PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	51.47	Pk	34.7	-19.8	66.37	68.2	-1.83	29	253	V
2	5.725	52.26	Pk	34.7	-19.8	67.16	68.2	-1.04	29	253	V

Pk - Peak detector

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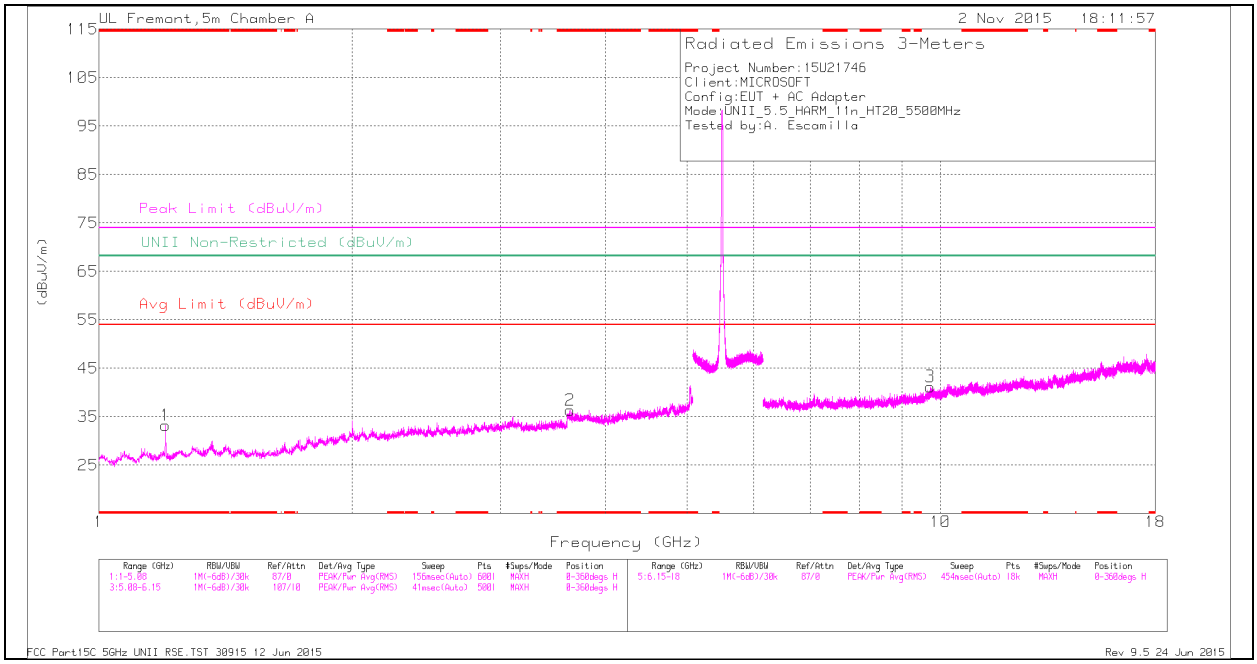
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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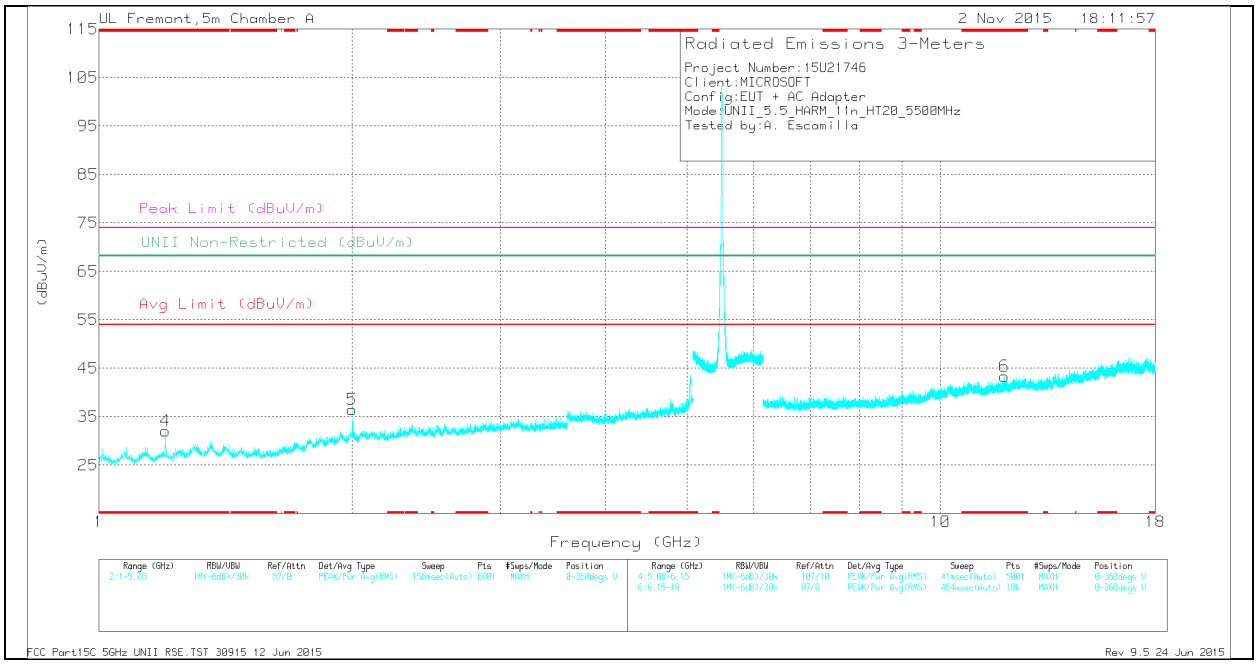
LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 1.2	41.22	Pk	28	-36	0	33.22	-	-	74	-40.78	68.2	-34.98	0-360	100	H
2	* 3.628	35.85	Pk	33.1	-32.6	0	36.35	-	-	74	-37.65	68.2	-31.85	0-360	100	H
4	* 1.2	40.02	Pk	28	-36	0	32.02	-	-	74	-41.98	68.2	-36.18	0-360	100	V
6	* 11.915	27.41	Pk	38.6	-22.7	0	43.31	-	-	74	-30.69	68.2	-24.89	0-360	200	V
5	2	39.73	Pk	31.1	-34.3	0	36.53	-	-	74	-37.47	68.2	-31.67	0-360	200	V
3	9.718	28.32	Pk	36.8	-23.9	0	41.22	-	-	74	-32.78	68.2	-26.98	0-360	201	H

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 1.2	47.32	PK-U	28	-36	0	39.32	-	-	74	-34.68	-	-	160	110	H
* 1.2	39.87	ADR	28	-36	.1	31.97	54	-22.03	-	-	-	-	160	110	H
* 3.626	41.65	PK-U	33.1	-32.6	0	42.15	-	-	74	-31.85	-	-	95	155	H
* 3.629	30.59	ADR	33.1	-32.6	.1	31.19	54	-22.81	-	-	-	-	95	155	H
* 1.2	46.3	PK-U	28	-36	0	38.3	-	-	74	-35.7	-	-	68	230	V
* 1.2	38.29	ADR	28	-36	.1	30.39	54	-23.61	-	-	-	-	68	230	V
* 11.916	33.44	PK-U	38.6	-22.7	0	49.34	-	-	74	-24.66	-	-	337	167	V
* 11.914	22.66	ADR	38.6	-22.7	.1	38.66	54	-15.34	-	-	-	-	337	167	V
2	46.81	PK-U	31.1	-34.4	0	43.51	-	-	-	-	68.2	-24.69	2	192	V
2	38.12	ADR	31.1	-34.4	.1	34.92	-	-	-	-	-	-	2	192	V
9.716	24.24	ADR	36.8	-24	.1	37.14	-	-	-	-	-	-	54	202	H
9.717	36	PK-U	36.8	-24	0	48.8	-	-	-	-	68.2	-19.4	54	202	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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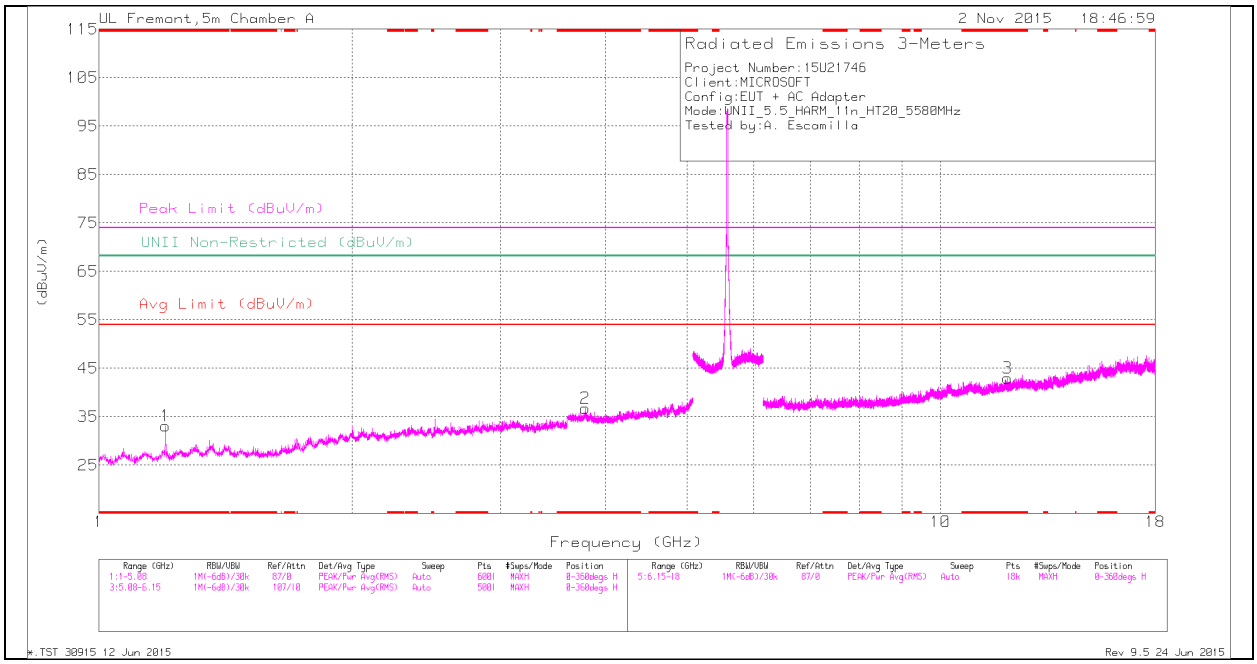
MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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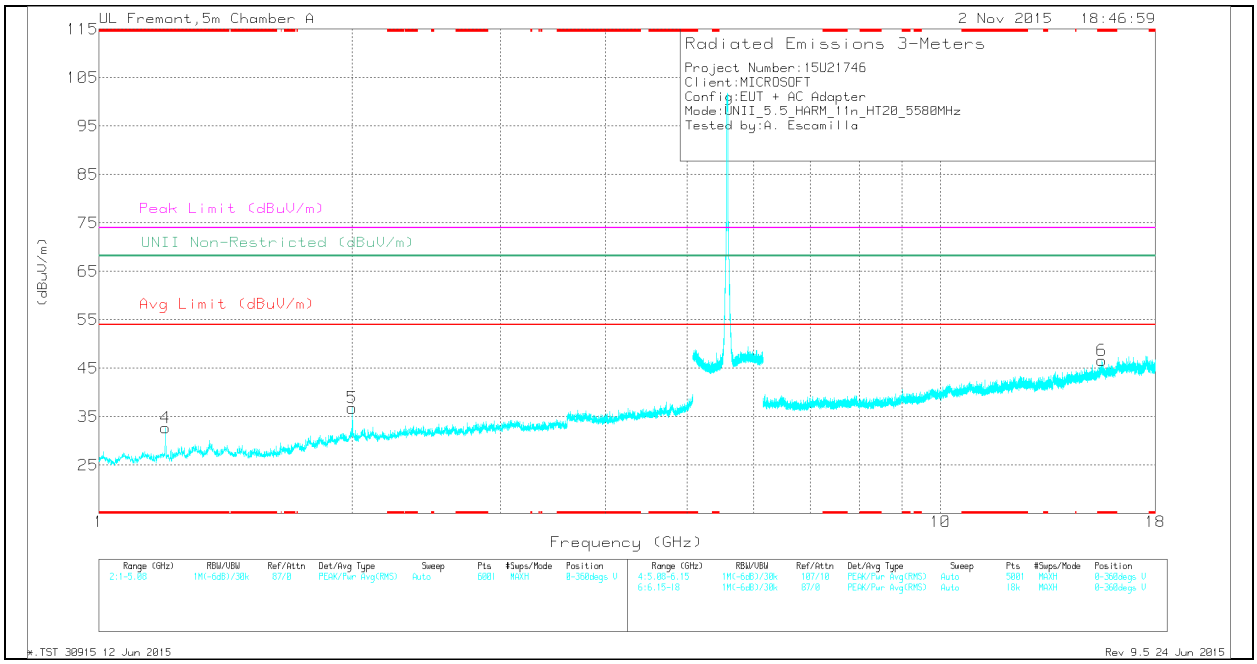
MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 1.2	41.12	Pk	28	-36	0	33.12	-	-	74	-40.88	68.2	-35.08	0-360	100	H
2	* 3.785	34.85	Pk	33.4	-31.5	0	36.75	-	-	74	-37.25	68.2	-31.45	0-360	201	H
4	* 1.2	40.68	Pk	28	-36	0	32.68	-	-	74	-41.32	68.2	-35.52	0-360	100	V
3	* 12.01	26.87	Pk	38.7	-22.6	0	42.97	-	-	74	-31.03	68.2	-25.23	0-360	100	H
6	* 15.547	27.45	Pk	40.3	-21.1	0	46.65	-	-	74	-27.35	68.2	-21.55	0-360	100	V
5	2	40.01	Pk	31.1	-34.3	0	36.81	-	-	74	-37.19	68.2	-31.39	0-360	100	V

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 1.2	46.62	PK-U	28	-36	0	38.62	-	-	74	-35.38	-	-	165	115	H
* 1.2	38.94	ADR	28	-36	.1	31.04	54	-22.96	-	-	-	-	165	115	H
* 3.785	42.11	PK-U	33.4	-31.5	0	44.01	-	-	74	-29.99	-	-	63	173	H
* 3.783	30.44	ADR	33.4	-31.5	.1	32.44	54	-21.56	-	-	-	-	63	173	H
* 1.2	47.49	PK-U	28	-36	0	39.49	-	-	74	-34.51	-	-	69	241	V
* 1.2	39.48	ADR	28	-36	.1	31.58	54	-22.42	-	-	-	-	69	241	V
* 12.008	34.05	PK-U	38.7	-22.6	0	50.15	-	-	74	-23.85	-	-	53	143	H
* 12.008	22.62	ADR	38.7	-22.6	.1	38.82	54	-15.18	-	-	-	-	53	143	H
* 15.546	33.83	PK-U	40.3	-21.1	0	53.03	-	-	74	-20.97	-	-	26	122	V
* 15.548	23.28	ADR	40.3	-21	.1	42.68	54	-11.32	-	-	-	-	26	122	V
2	46.04	PK-U	31.1	-34.4	0	42.74	-	-	-	-	68.2	-25.46	5	192	V
2	37.82	ADR	31.1	-34.4	.1	34.62	-	-	-	-	-	-	5	192	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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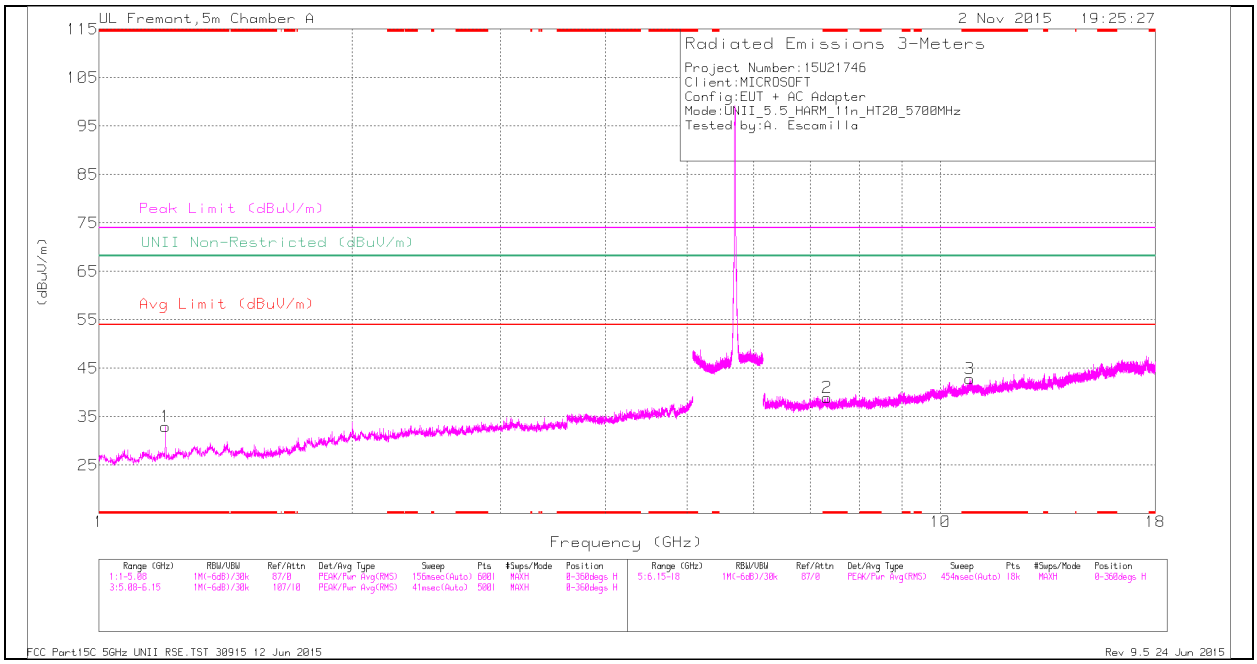
HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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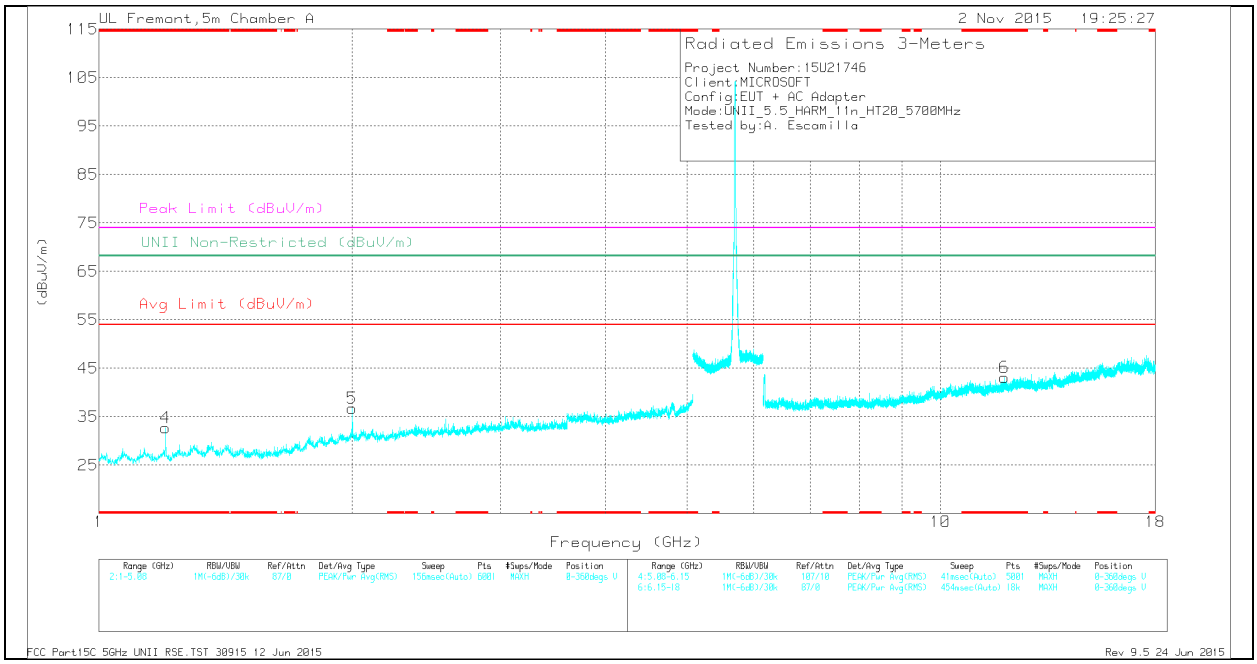
HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 1.2	41	Pk	28	-36	0	33	-	-	74	-41	68.2	-35.2	0-360	100	H
4	* 1.2	40.71	Pk	28	-36	0	32.71	-	-	74	-41.29	68.2	-35.49	0-360	100	V
2	* 7.328	29.3	Pk	35.5	-25.9	0	38.9	-	-	74	-35.1	68.2	-29.3	0-360	100	H
3	* 10.837	26.96	Pk	37.8	-21.9	0	42.86	-	-	74	-31.14	68.2	-25.34	0-360	100	H
6	* 11.912	27.2	Pk	38.6	-22.7	0	43.1	-	-	74	-30.9	68.2	-25.1	0-360	100	V
5	2	39.91	Pk	31.1	-34.3	0	36.71	-	-	74	-37.29	68.2	-31.49	0-360	200	V

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 1.2	47.03	PK-U	28	-36	0	39.03	-	-	74	-34.97	-	-	163	100	H
* 1.2	39.49	ADR	28	-36	.1	31.59	54	-22.41	-	-	-	-	163	100	H
* 1.2	46.69	PK-U	28	-36	0	38.69	-	-	74	-35.31	-	-	65	236	V
* 1.2	39.07	ADR	28	-36	.1	31.17	54	-22.83	-	-	-	-	65	236	V
* 7.329	37.19	PK-U	35.5	-25.9	0	46.79	-	-	74	-27.21	-	-	162	175	H
* 7.328	25.68	ADR	35.5	-25.9	.1	35.38	54	-18.62	-	-	-	-	162	175	H
* 10.838	33.59	PK-U	37.8	-21.9	0	49.49	-	-	74	-24.51	-	-	79	151	H
* 10.836	22.73	ADR	37.8	-22	.1	38.63	54	-15.37	-	-	-	-	79	151	H
* 11.912	34.07	PK-U	38.6	-22.7	0	49.97	-	-	74	-24.03	-	-	357	216	V
* 11.911	23.04	ADR	38.6	-22.7	.1	39.04	54	-14.96	-	-	-	-	357	216	V
2	46.02	PK-U	31.1	-34.3	0	42.82	-	-	-	-	68.2	-25.38	2	197	V
2	37.93	ADR	31.1	-34.4	.1	34.73	-	-	-	-	-	-	2	197	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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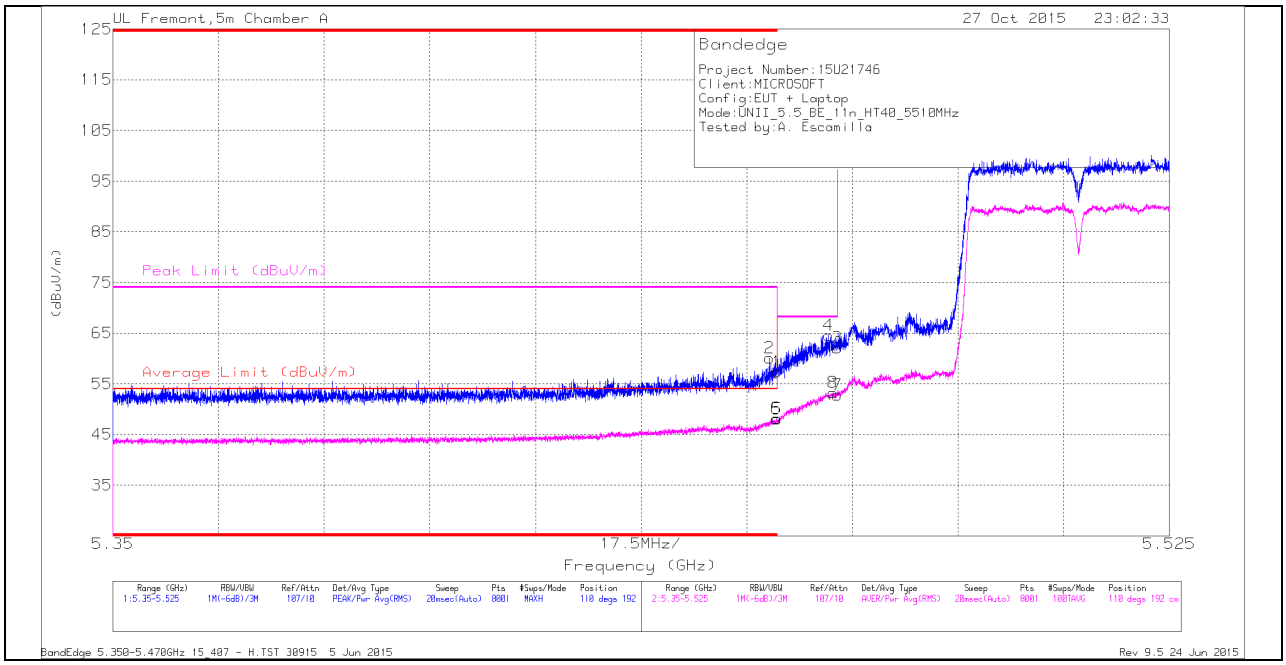
9.3.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.5 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Flt r/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
2	* 5.459	45.78	Pk	34.5	-20.2	0	60.08	-	-	74	-13.92	110	192	H
1	* 5.46	43.09	Pk	34.5	-20.2	0	57.39	-	-	74	-16.61	110	192	H
5	* 5.46	33.54	RMS	34.5	-20.2	.18	48.02	54	-5.98	-	-	110	192	H
6	* 5.46	33.69	RMS	34.5	-20.2	.18	48.17	54	-5.83	-	-	110	192	H
4	5.469	50.16	Pk	34.5	-20.1	0	64.56	-	-	68.2	-3.64	110	192	H
8	5.469	38.69	RMS	34.5	-20.1	.18	53.27	-	-	-	-	110	192	H
3	5.47	47.73	Pk	34.5	-20.1	0	62.13	-	-	68.2	-6.07	110	192	H
7	5.47	38.2	RMS	34.5	-20.1	.18	52.78	-	-	-	-	110	192	H

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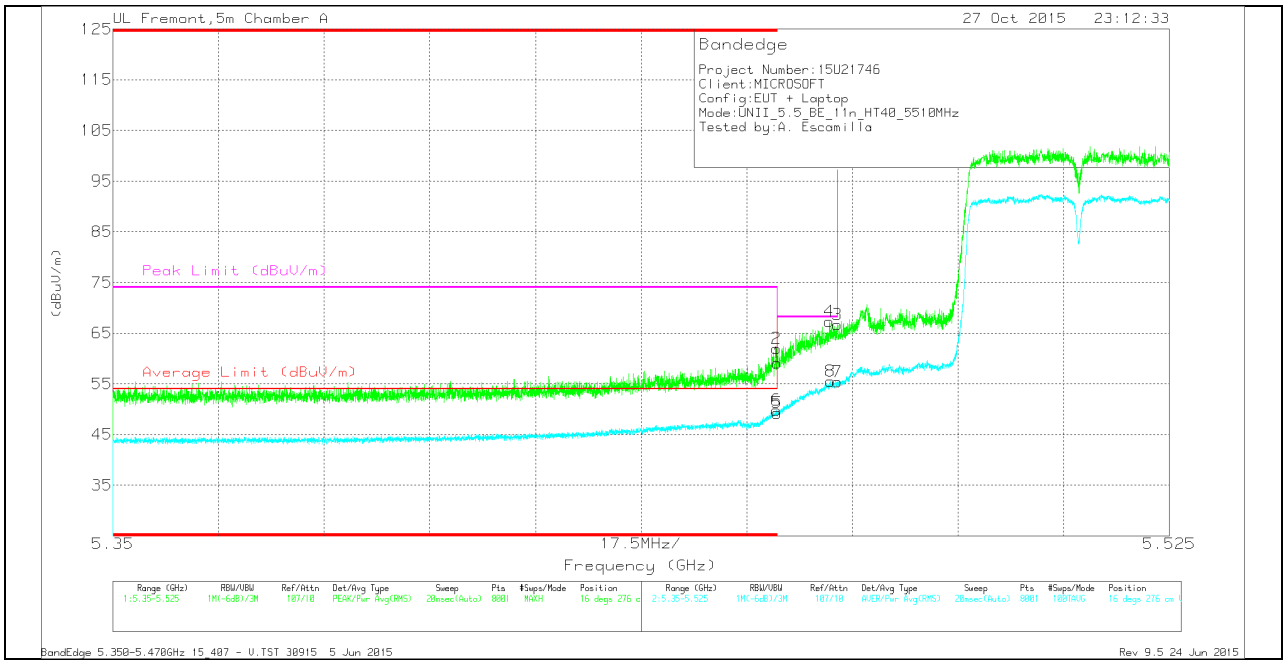
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/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	44.78	Pk	34.5	-20.2	0	59.08	-	-	74	-14.92	16	276	V
2	* 5.46	47.64	Pk	34.5	-20.2	0	61.94	-	-	74	-12.06	16	276	V
5	* 5.46	34.76	RMS	34.5	-20.2	.18	49.24	54	-4.76	-	-	16	276	V
6	* 5.46	35.34	RMS	34.5	-20.2	.18	49.82	54	-4.18	-	-	16	276	V
4	5.469	52.87	Pk	34.5	-20.1	0	67.27	-	-	68.2	-.93	16	276	V
8	5.469	40.96	RMS	34.5	-20.1	.18	55.54	-	-	-	-	16	276	V
3	5.47	52.25	Pk	34.5	-20.1	0	66.65	-	-	68.2	-1.55	16	276	V
7	5.47	40.76	RMS	34.5	-20.1	.18	55.34	-	-	-	-	16	276	V

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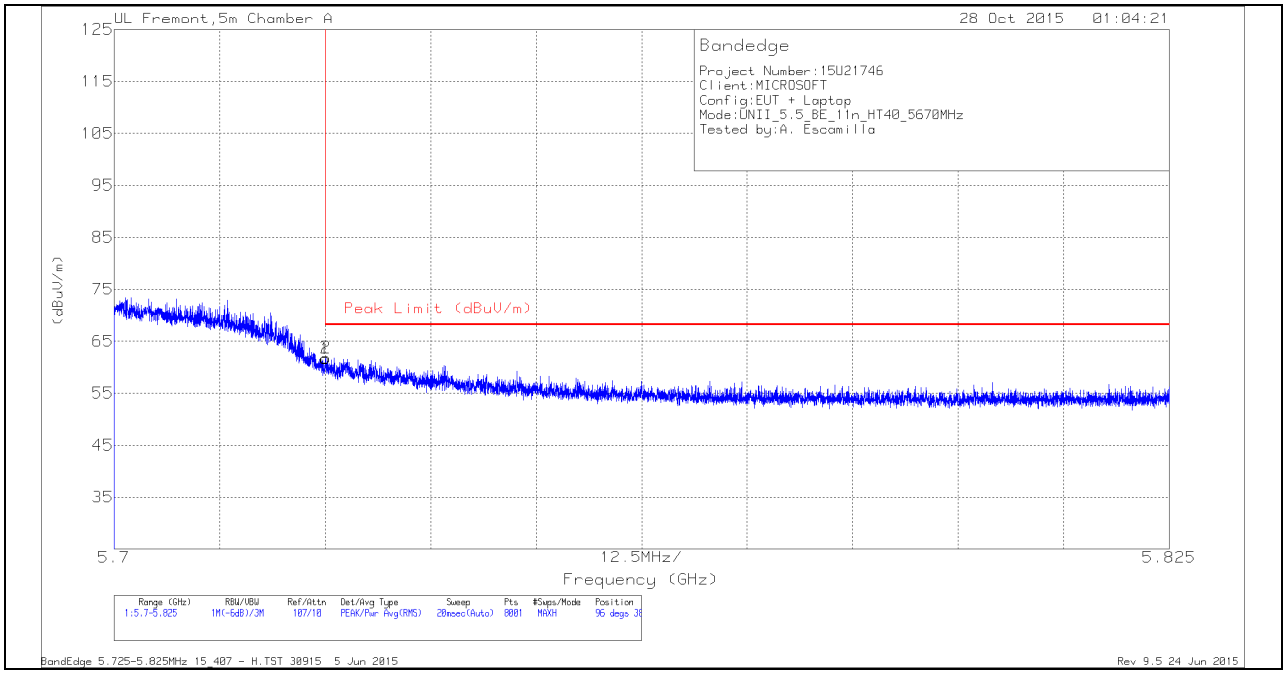
AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	46.76	Pk	34.7	-19.8	61.66	68.2	-6.54	96	383	H
2	5.725	46.92	Pk	34.7	-19.8	61.82	68.2	-6.38	96	383	H

Pk - Peak detector

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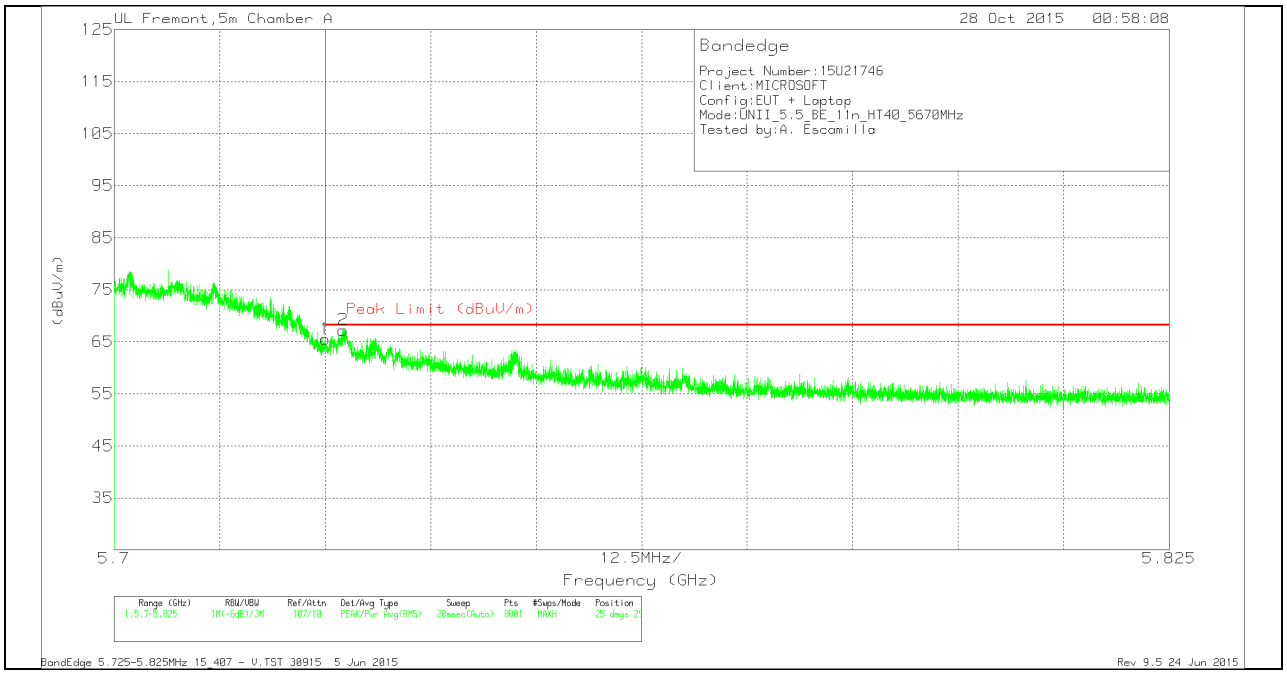
VERTICAL PEAK PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	50.61	Pk	34.7	-19.8	65.51	68.2	-2.69	25	295	V
2	5.727	52.37	Pk	34.7	-19.8	67.27	68.2	-.93	25	295	V

Pk - Peak detector

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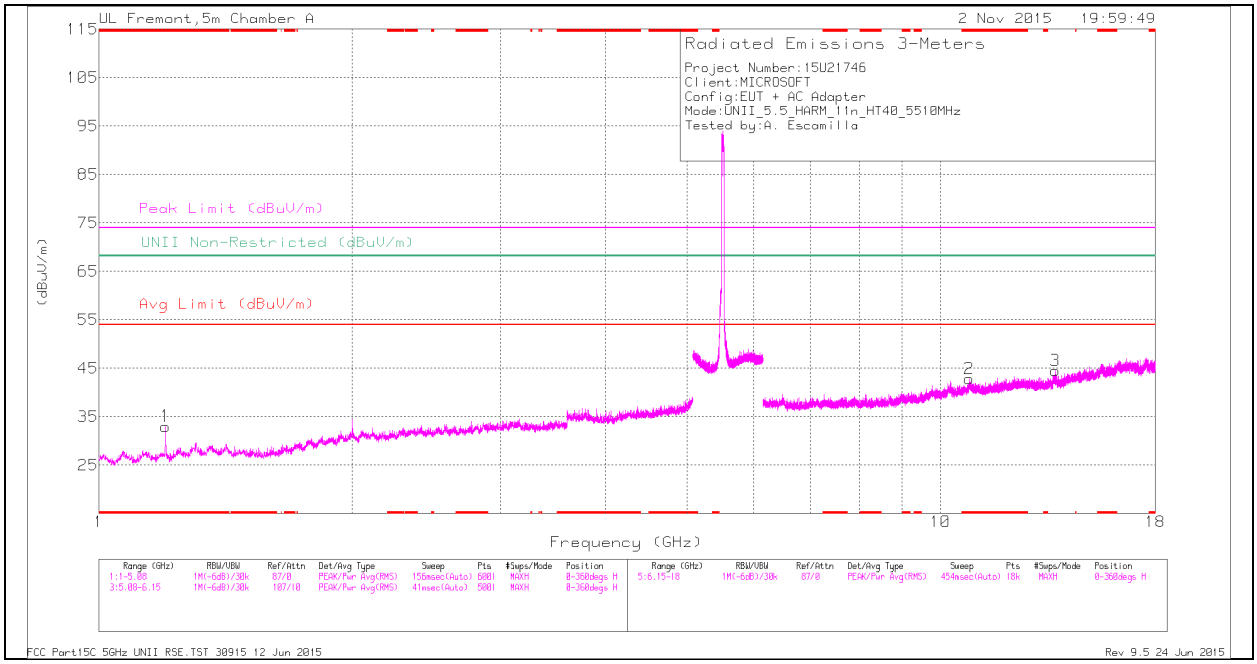
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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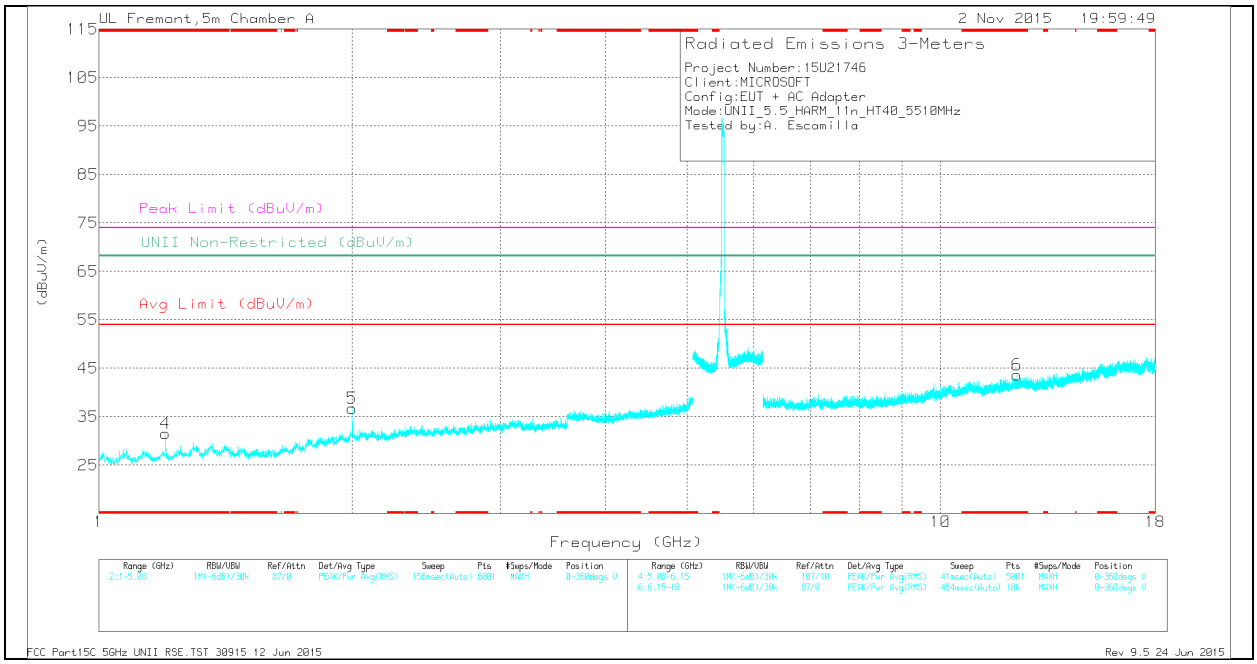
LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 1.2	41.04	Pk	28	-36	0	33.04	-	-	74	-40.96	68.2	-35.16	0-360	100	H
4	* 1.2	39.55	Pk	28	-36	0	31.55	-	-	74	-42.45	68.2	-36.65	0-360	200	V
2	* 10.82	27.14	Pk	37.8	-22.1	0	42.84	-	-	74	-31.16	68.2	-25.36	0-360	100	H
6	* 12.336	27.58	Pk	39	-22.9	0	43.68	-	-	74	-30.32	68.2	-24.52	0-360	200	V
5	2	39.99	Pk	31.1	-34.4	0	36.69	-	-	74	-37.31	68.2	-31.51	0-360	100	V
3	13.688	28.13	Pk	38.8	-22.4	0	44.53	-	-	74	-29.47	68.2	-23.67	0-360	100	H

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 1.2	47.07	PK-U	28	-36	0	39.07	-	-	74	-34.93	-	-	155	111	H
* 1.2	39.47	ADR	28	-36	.18	31.65	54	-22.35	-	-	-	-	155	111	H
* 1.2	46.81	PK-U	28	-36	0	38.81	-	-	74	-35.19	-	-	66	199	V
* 1.2	38.36	ADR	28	-36	.18	30.54	54	-23.46	-	-	-	-	66	199	V
* 10.818	34.35	PK-U	37.8	-22.1	0	50.05	-	-	74	-23.95	-	-	262	172	H
* 10.82	23	ADR	37.8	-22.1	.18	38.88	54	-15.12	-	-	-	-	262	172	H
* 12.338	34.35	PK-U	39	-22.9	0	50.45	-	-	74	-23.55	-	-	36	227	V
* 12.336	22.94	ADR	39	-22.9	.18	39.22	54	-14.78	-	-	-	-	36	227	V
2	45.83	PK-U	31.1	-34.4	0	42.53	-	-	-	-	68.2	-25.67	360	191	V
2	37.06	ADR	31.1	-34.4	.18	33.94	-	-	-	-	-	-	360	191	V
13.688	23.72	ADR	38.8	-22.4	.18	40.3	-	-	-	-	-	-	120	133	H
13.689	35.08	PK-U	38.7	-22.4	0	51.38	-	-	-	-	68.2	-16.82	120	133	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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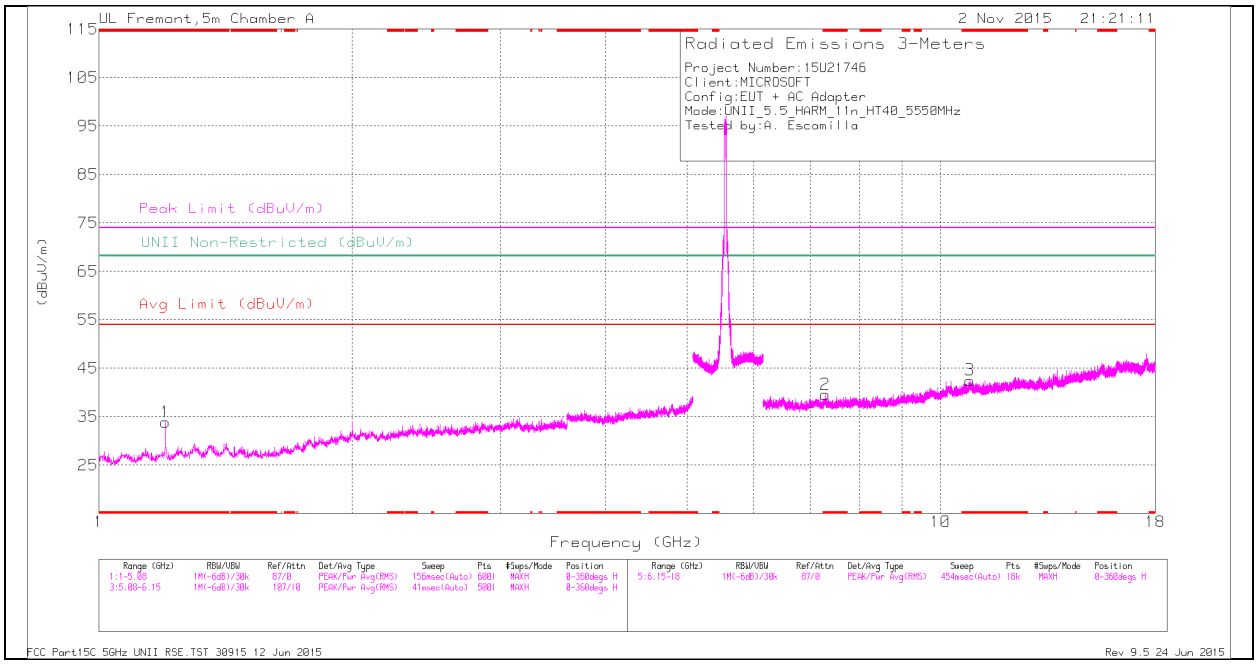
MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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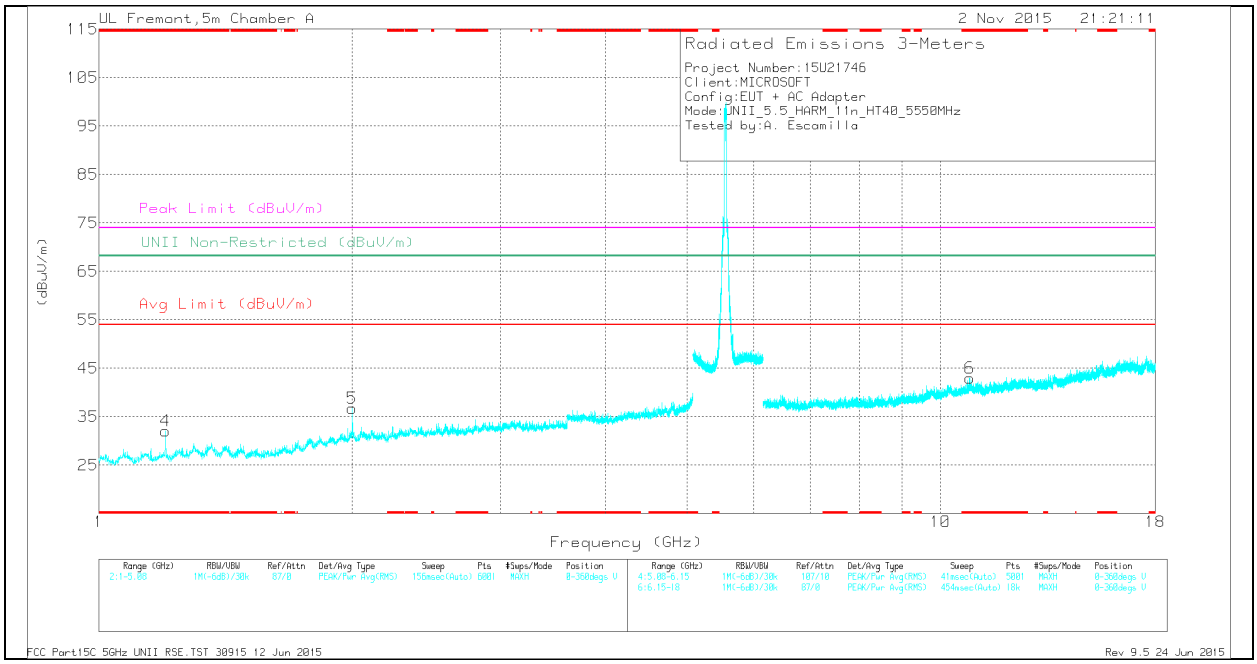
MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 1.2	41.94	Pk	28	-36	0	33.94	-	-	74	-40.06	68.2	-34.26	0-360	100	H
4	* 1.2	40.04	Pk	28	-36	0	32.04	-	-	74	-41.96	68.2	-36.16	0-360	100	V
2	* 7.296	30.05	Pk	35.5	-25.9	0	39.65	-	-	74	-34.35	68.2	-28.55	0-360	100	H
3	* 10.827	26.72	Pk	37.8	-22	0	42.52	-	-	74	-31.48	68.2	-25.68	0-360	201	H
6	* 10.844	27.14	Pk	37.8	-22	0	42.94	-	-	74	-31.06	68.2	-25.26	0-360	200	V
5	2	40.04	Pk	31.1	-34.4	0	36.74	-	-	74	-37.26	68.2	-31.46	0-360	100	V

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 1.2	47.34	PK-U	28	-36	0	39.34	-	-	74	-34.66	-	-	164	109	H
* 1.2	39.42	ADR	28	-36	.18	31.6	54	-22.4	-	-	-	-	164	109	H
* 1.2	46.46	PK-U	28	-36	0	38.46	-	-	74	-35.54	-	-	64	236	V
* 1.2	38.79	ADR	28	-36	.18	30.97	54	-23.03	-	-	-	-	64	236	V
* 7.295	37.28	PK-U	35.5	-25.9	0	46.88	-	-	74	-27.12	-	-	124	161	H
* 7.295	25.86	ADR	35.5	-25.9	.18	35.64	54	-18.36	-	-	-	-	124	161	H
* 10.827	35.25	PK-U	37.8	-22	0	51.05	-	-	74	-22.95	-	-	34	194	H
* 10.826	23	ADR	37.8	-22	.18	38.98	54	-15.02	-	-	-	-	34	194	H
* 10.846	33.79	PK-U	37.8	-22	0	49.59	-	-	74	-24.41	-	-	110	212	V
* 10.846	23	ADR	37.8	-22	.18	38.98	54	-15.02	-	-	-	-	110	212	V
2	46.36	PK-U	31.1	-34.4	0	43.06	-	-	-	-	68.2	-25.14	1	190	V
2	38.34	ADR	31.1	-34.4	.18	35.22	-	-	-	-	-	-	1	190	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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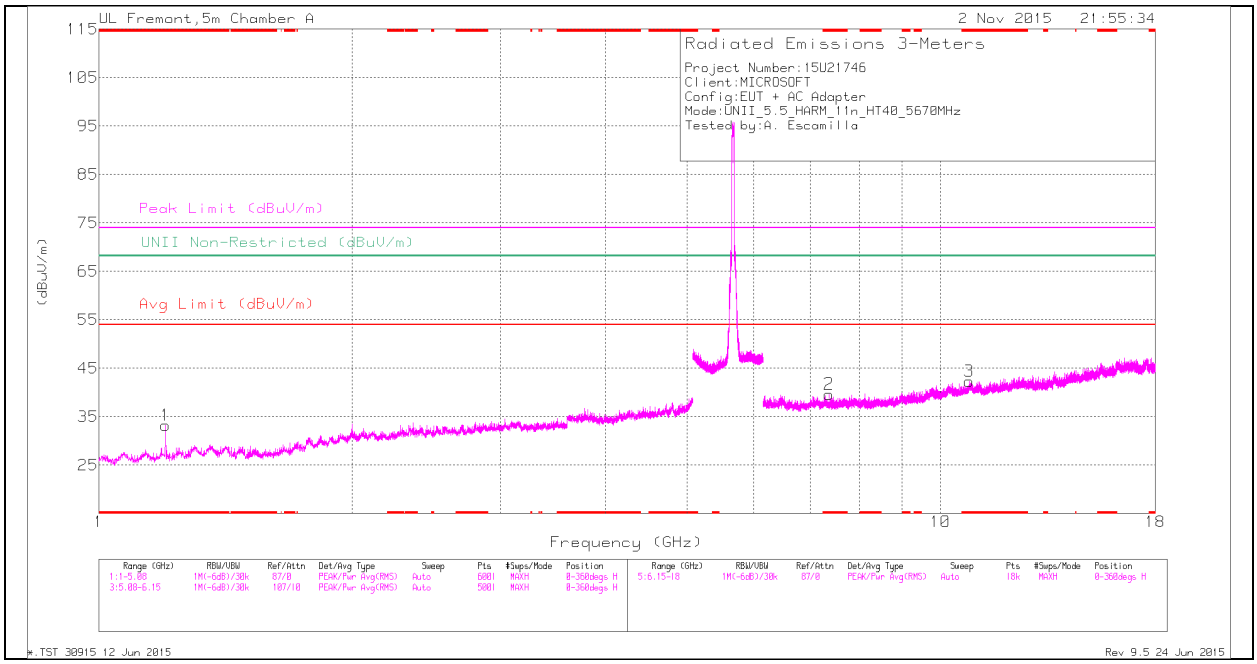
HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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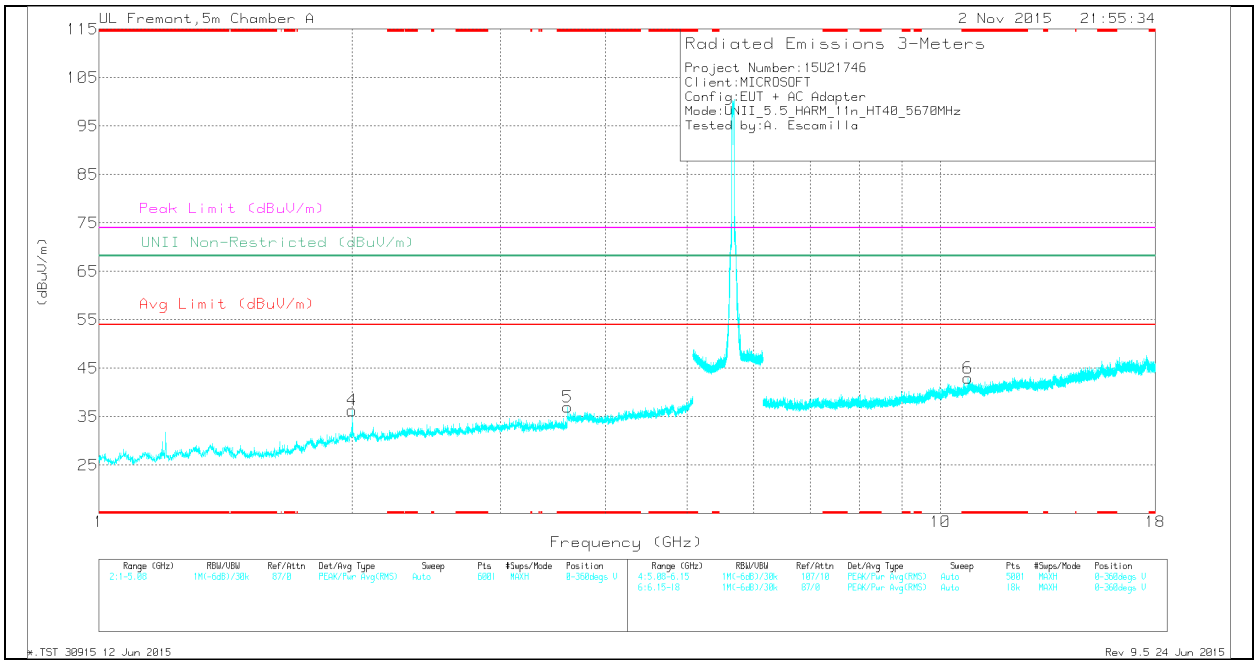
HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 1.2	41.22	Pk	28	-36	0	33.22	-	-	74	-40.78	68.2	-34.98	0-360	100	H
5	* 3.604	36.68	Pk	33.1	-32.8	0	36.98	-	-	74	-37.02	68.2	-31.22	0-360	200	V
2	* 7.374	29.76	Pk	35.5	-25.6	0	39.66	-	-	74	-34.34	68.2	-28.54	0-360	100	H
3	* 10.819	26.59	Pk	37.8	-22.1	0	42.29	-	-	74	-31.71	68.2	-25.91	0-360	201	H
6	* 10.788	27.82	Pk	37.8	-22.7	0	42.92	-	-	74	-31.08	68.2	-25.28	0-360	100	V
4	2	39.49	Pk	31.1	-34.3	0	36.29	-	-	74	-37.71	68.2	-31.91	0-360	200	V

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 1.2	47.42	PK-U	28	-36	0	39.42	-	-	74	-34.58	-	-	162	116	H
* 1.2	39.54	ADR	28	-36	.18	31.72	54	-22.28	-	-	-	-	162	116	H
* 3.604	42.36	PK-U	33.1	-32.8	0	42.66	-	-	74	-31.34	-	-	39	228	V
* 3.606	31.08	ADR	33.1	-32.7	.18	31.66	54	-22.34	-	-	-	-	39	228	V
* 7.376	36.5	PK-U	35.5	-25.6	0	46.4	-	-	74	-27.6	-	-	144	206	H
* 7.374	25.37	ADR	35.5	-25.6	.18	35.45	54	-18.55	-	-	-	-	144	206	H
* 10.821	34.09	PK-U	37.8	-22.1	0	49.79	-	-	74	-24.21	-	-	208	176	H
* 10.821	23	ADR	37.8	-22.1	.18	38.88	54	-15.12	-	-	-	-	208	176	H
* 10.79	33.74	PK-U	37.8	-22.7	0	48.84	-	-	74	-25.16	-	-	344	143	V
* 10.788	23.11	ADR	37.8	-22.7	.18	38.39	54	-15.61	-	-	-	-	344	143	V
2	46.04	PK-U	31.1	-34.4	0	42.74	-	-	-	-	68.2	-25.46	4	194	V
2	37.67	ADR	31.1	-34.4	.18	34.55	-	-	-	-	-	-	4	194	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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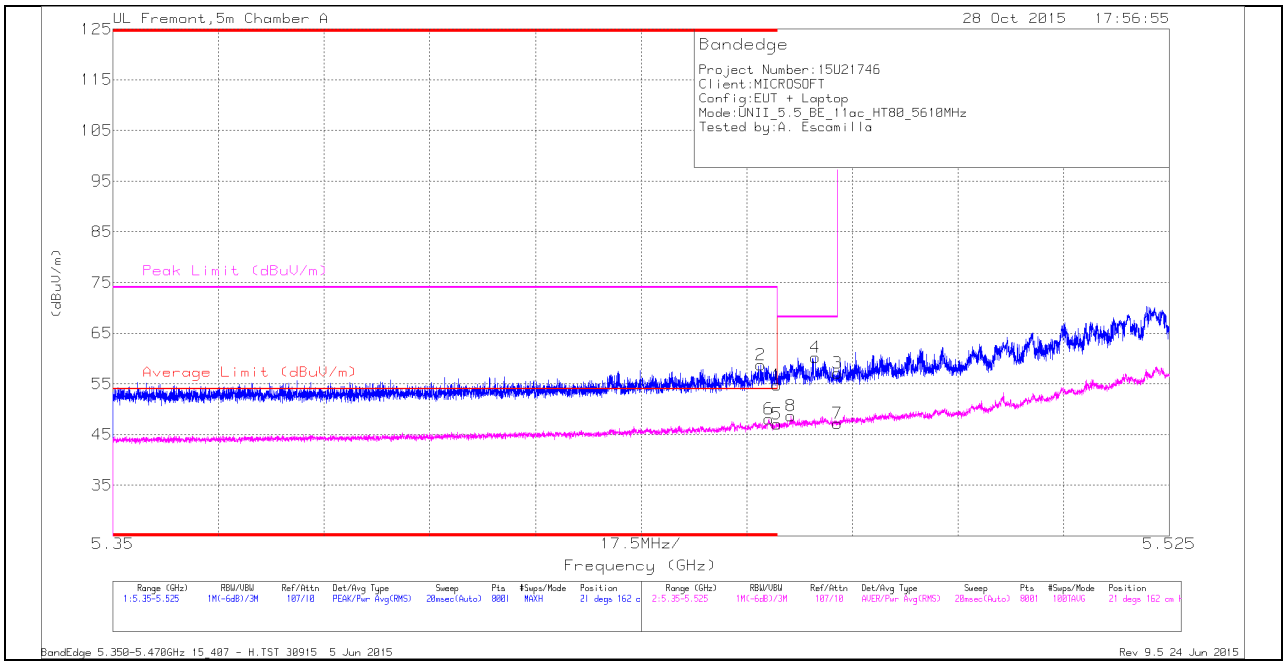
9.3.4. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.5 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

LOWER EDGE, HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Flt r/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
2	* 5.457	44.39	Pk	34.5	-20.2	0	58.69	-	-	74	-15.31	21	162	H
6	* 5.459	33.48	RMS	34.5	-20.2	.23	48.01	54	-5.99	-	-	21	162	H
1	* 5.46	40.44	Pk	34.5	-20.2	0	54.74	-	-	74	-19.26	21	162	H
5	* 5.46	32.57	RMS	34.5	-20.2	.23	47.1	54	-6.9	-	-	21	162	H
8	5.462	34.17	RMS	34.5	-20.2	.23	48.7	-	-	-	-	21	162	H
4	5.466	45.85	Pk	34.5	-20.1	0	60.25	-	-	68.2	-7.95	21	162	H
3	5.47	42.72	Pk	34.5	-20.1	0	57.12	-	-	68.2	-11.08	21	162	H
7	5.47	32.61	RMS	34.5	-20.1	.23	47.24	-	-	-	-	21	162	H

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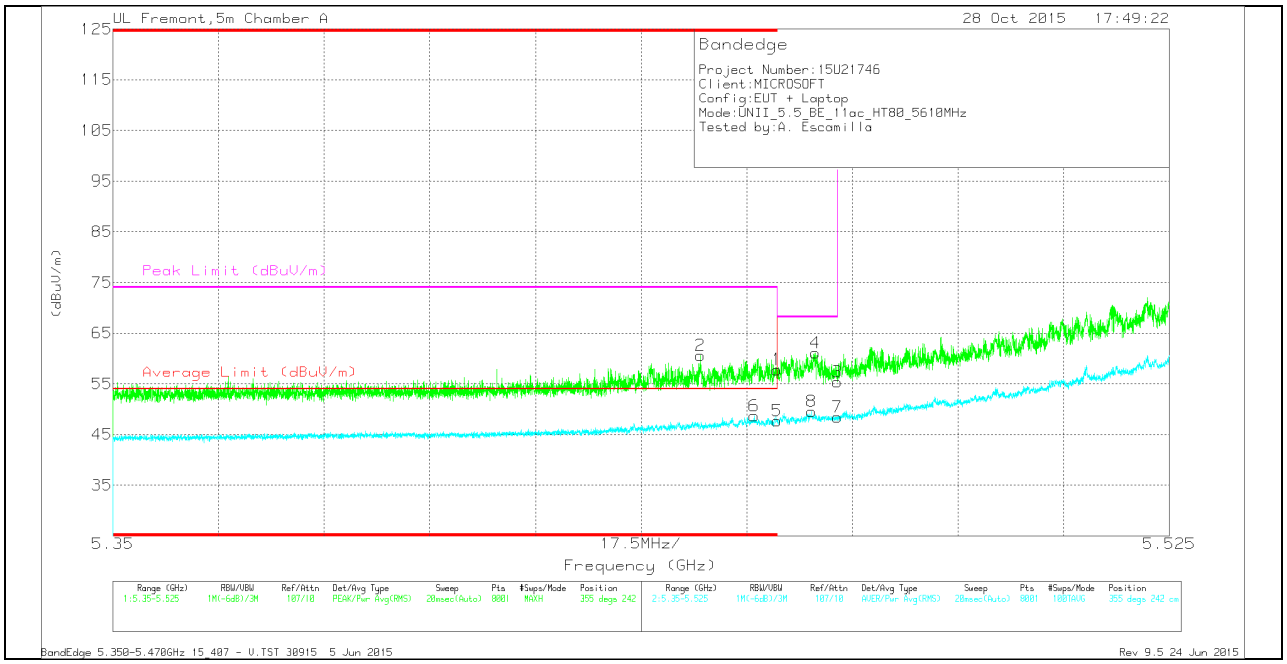
LOWER EDGE, VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Flt r/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
2	* 5.447	46.26	Pk	34.5	-20.2	0	60.56	-	-	74	-13.44	355	242	V
6	* 5.456	34.13	RMS	34.5	-20.2	.23	48.66	54	-5.34	-	-	355	242	V
1	* 5.46	43.5	Pk	34.5	-20.2	0	57.8	-	-	74	-16.2	355	242	V
5	* 5.46	33.18	RMS	34.5	-20.2	.23	47.71	54	-6.29	-	-	355	242	V
4	5.466	46.74	Pk	34.5	-20.1	0	61.14	-	-	68.2	-7.06	355	242	V
8	5.466	34.87	RMS	34.5	-20.1	.23	49.5	-	-	-	-	355	242	V
3	5.47	41.01	Pk	34.5	-20.1	0	55.41	-	-	68.2	-12.79	355	242	V
7	5.47	33.79	RMS	34.5	-20.1	.23	48.42	-	-	-	-	355	242	V

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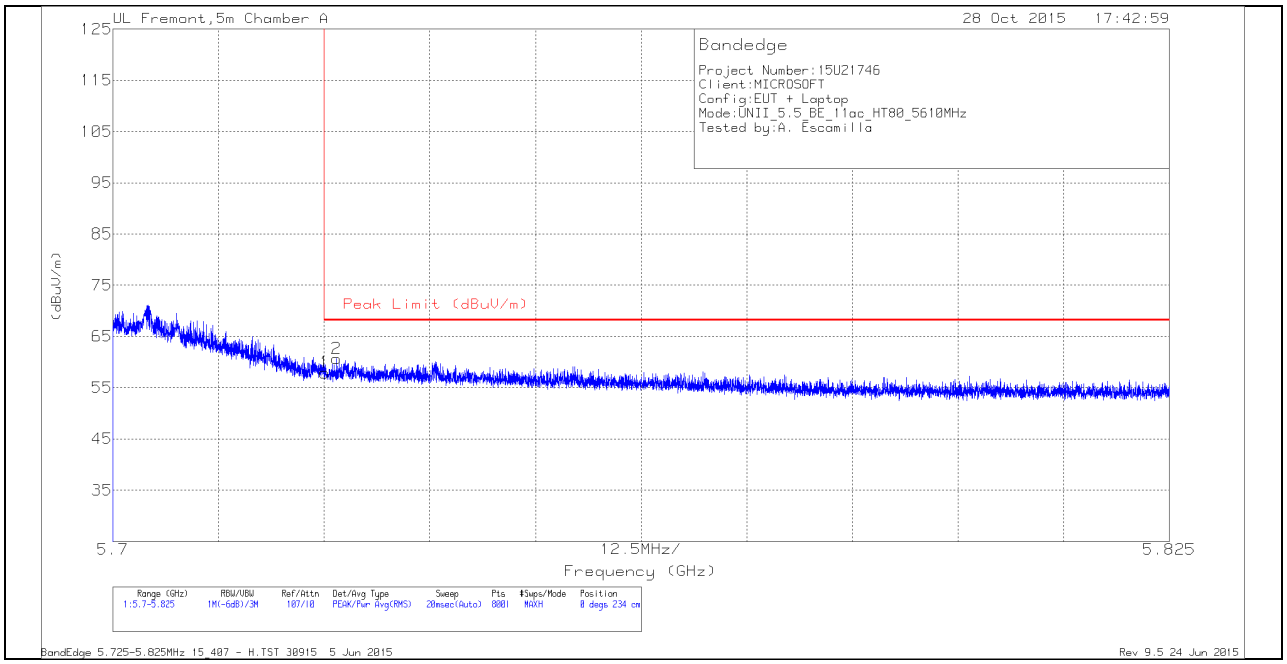
HIGHER EDGE, HORIZONTAL PEAK PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	43.02	Pk	34.7	-19.8	57.92	68.2	-10.28	0	234	H
2	5.726	45.82	Pk	34.7	-19.8	60.72	68.2	-7.48	0	234	H

Pk - Peak detector

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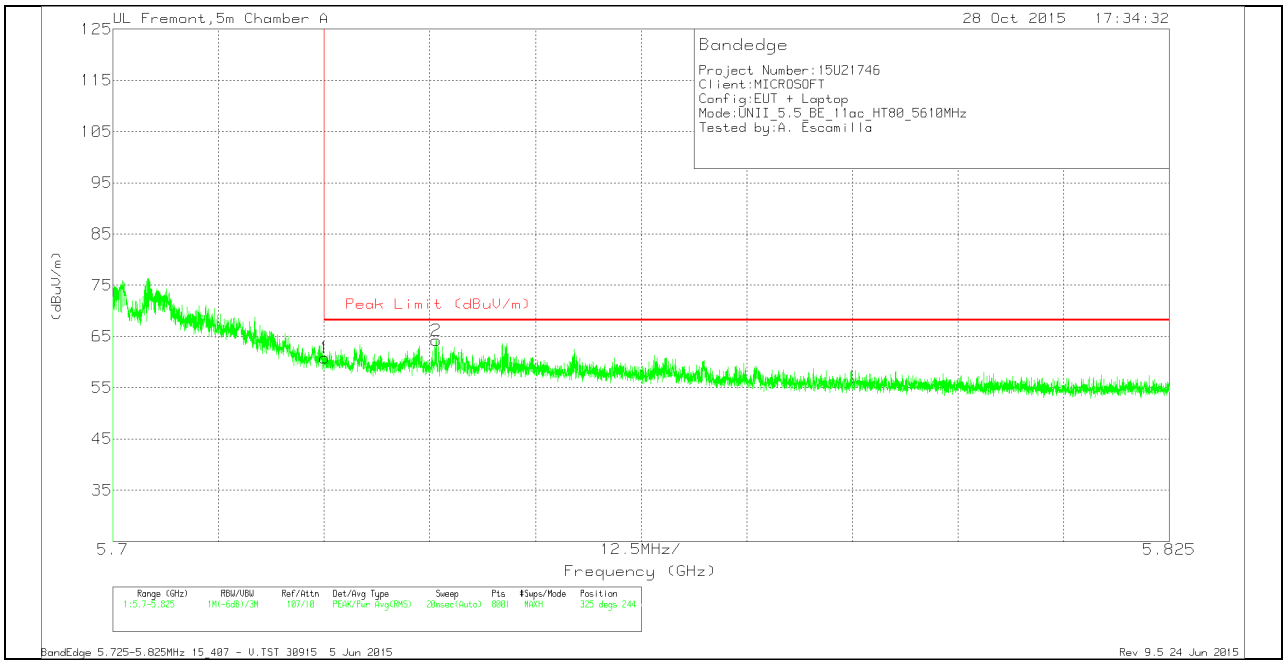
HIGHER EDGE, VERTICAL PEAK PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	45.87	Pk	34.7	-19.8	60.77	68.2	-7.43	325	244	V
2	5.738	49.24	Pk	34.8	-19.8	64.24	68.2	-3.96	325	244	V

Pk - Peak detector

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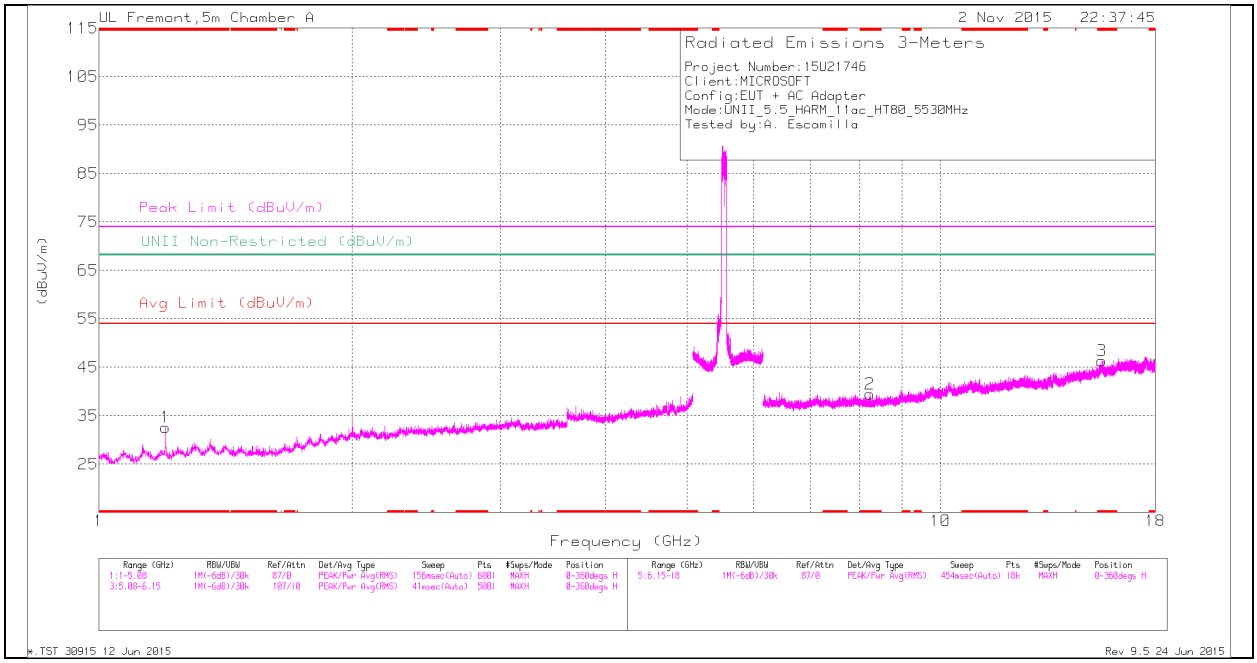
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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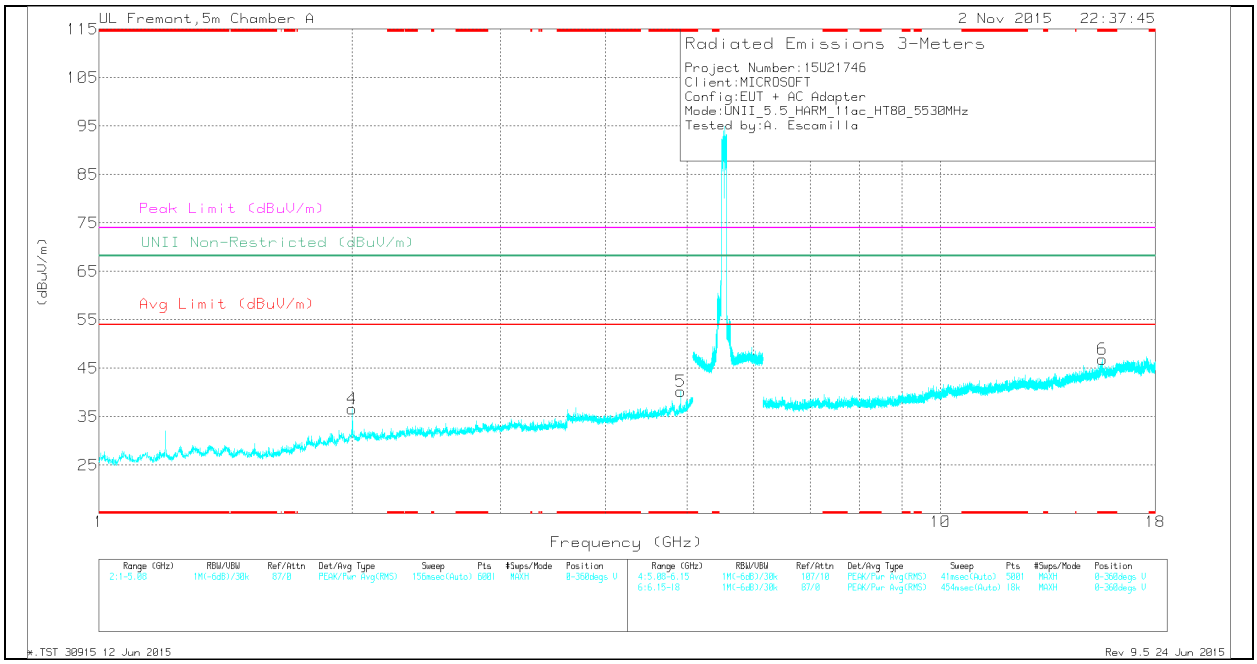
LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 1.2	40.57	Pk	28	-36	0	32.57	-	-	74	-41.43	68.2	-35.63	0-360	100	H
5	* 4.915	35.62	Pk	33.9	-29.3	0	40.22	-	-	74	-33.78	68.2	-27.98	0-360	200	V
2	* 8.242	29.14	Pk	35.7	-25.4	0	39.44	-	-	74	-34.56	68.2	-28.76	0-360	201	H
3	* 15.545	27.12	Pk	40.3	-21.1	0	46.32	-	-	74	-27.68	68.2	-21.88	0-360	201	H
6	* 15.562	27.6	Pk	40.4	-21.1	0	46.9	-	-	74	-27.1	68.2	-21.3	0-360	200	V
4	2	39.93	Pk	31.1	-34.4	0	36.63	-	-	74	-37.37	68.2	-31.57	0-360	100	V

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 1.2	46.79	PK-U	28	-36	0	38.79	-	-	74	-35.21	-	-	160	106	H
* 1.2	38.48	ADR	28	-36	.23	30.71	54	-23.29	-	-	-	-	160	106	H
* 4.916	42.21	PK-U	33.9	-29.3	0	46.81	-	-	74	-27.19	-	-	196	186	V
* 4.916	32.55	ADR	33.9	-29.3	.23	37.38	54	-16.62	-	-	-	-	196	186	V
* 8.243	36.28	PK-U	35.7	-25.4	0	46.58	-	-	74	-27.42	-	-	145	199	H
* 8.243	24.87	ADR	35.7	-25.5	.23	35.3	54	-18.7	-	-	-	-	145	199	H
* 15.546	34.5	PK-U	40.3	-21.1	0	53.7	-	-	74	-20.3	-	-	82	240	H
* 15.545	23.3	ADR	40.3	-21.1	.23	42.73	54	-11.27	-	-	-	-	82	240	H
* 15.563	34.64	PK-U	40.4	-21.1	0	53.94	-	-	74	-20.06	-	-	22	200	V
* 15.563	23.28	ADR	40.4	-21.1	.23	42.81	54	-11.19	-	-	-	-	22	200	V
2	46.24	PK-U	31.1	-34.4	0	42.94	-	-	-	-	68.2	-25.26	5	196	V
2	37.89	ADR	31.1	-34.4	.23	34.82	-	-	-	-	-	-	5	196	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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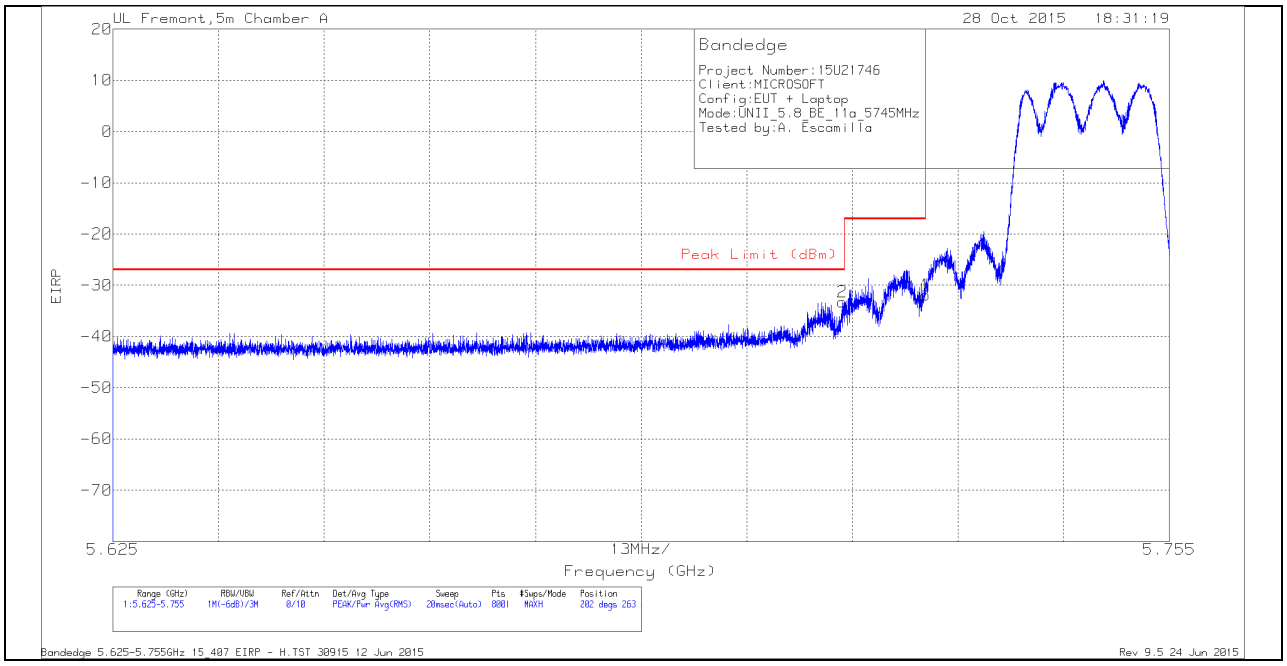
9.4. 5.8 GHz

9.4.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.8 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.715	-59.98	Pk	34.7	-19.8	11.8	-33.28	-27	-6.28	202	263	H
1	5.725	-58.66	Pk	34.7	-19.8	11.8	-31.96	-17	-14.96	202	263	H

Pk - Peak detector

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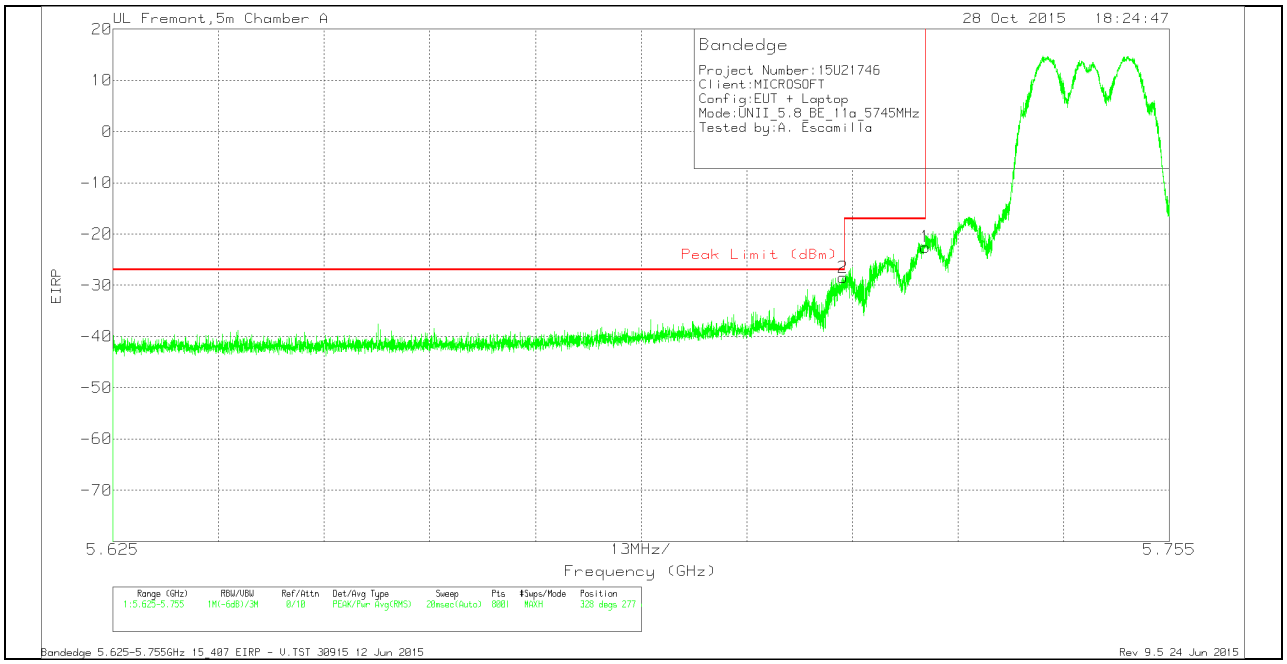
VERTICAL PEAK PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.715	-55.16	Pk	34.7	-19.8	11.8	-28.46	-27	-1.46	328	277	V
1	5.725	-49.22	Pk	34.7	-19.8	11.8	-22.52	-17	-5.52	328	277	V

Pk - Peak detector

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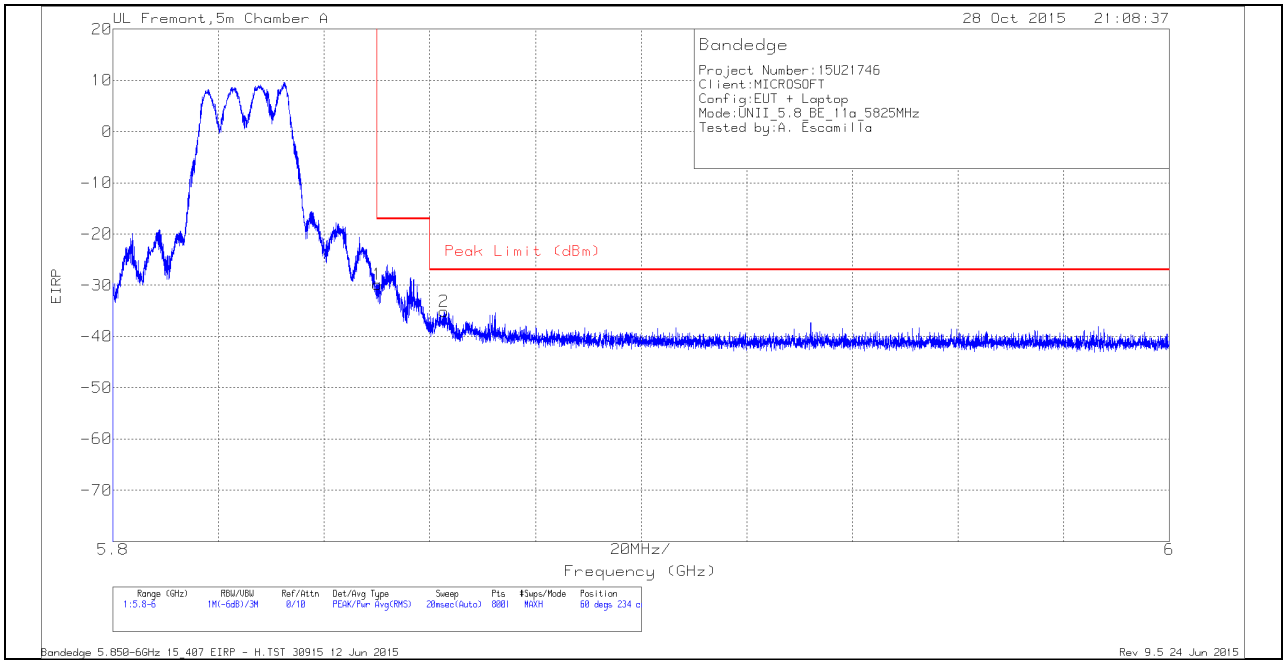
AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-57.48	Pk	35.1	-19.3	11.8	-29.88	-17	-12.88	60	234	H
2	5.863	-62.71	Pk	35.1	-19.3	11.8	-35.11	-27	-8.11	60	234	H

Pk - Peak detector

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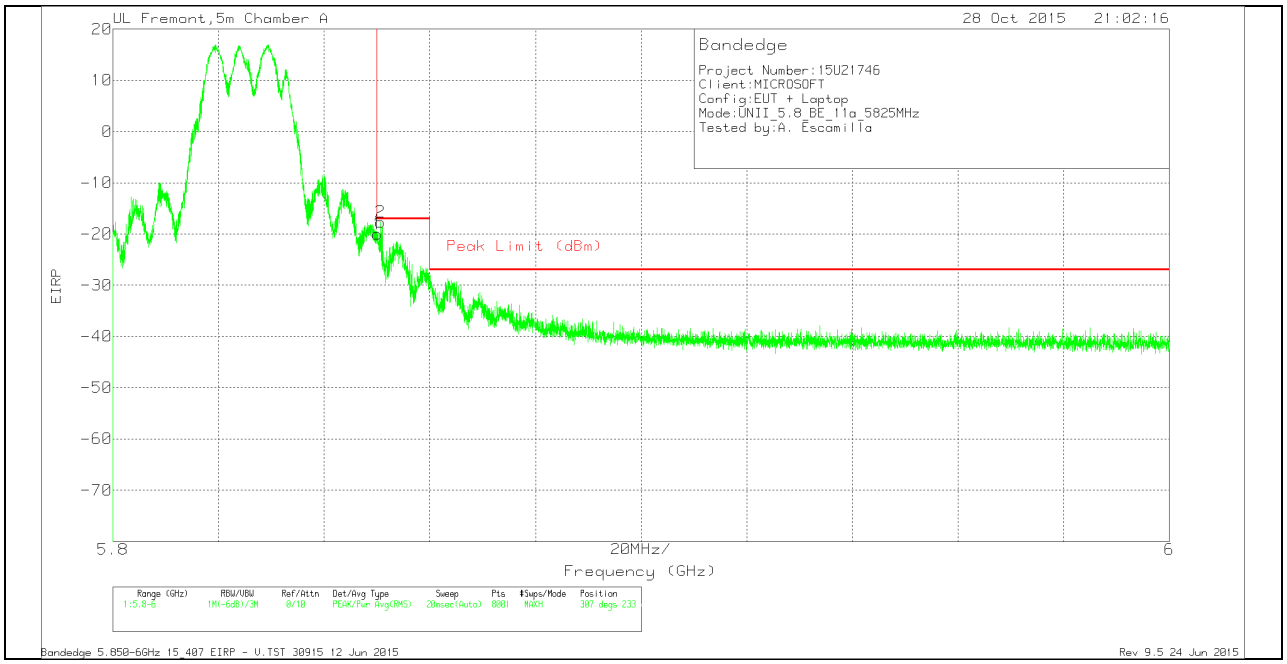
VERTICAL PEAK PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-47.62	Pk	35.1	-19.3	11.8	-20.02	-17	-3.02	307	233	V
2	5.851	-45.28	Pk	35.1	-19.3	11.8	-17.68	-17	-.68	307	233	V

Pk - Peak detector

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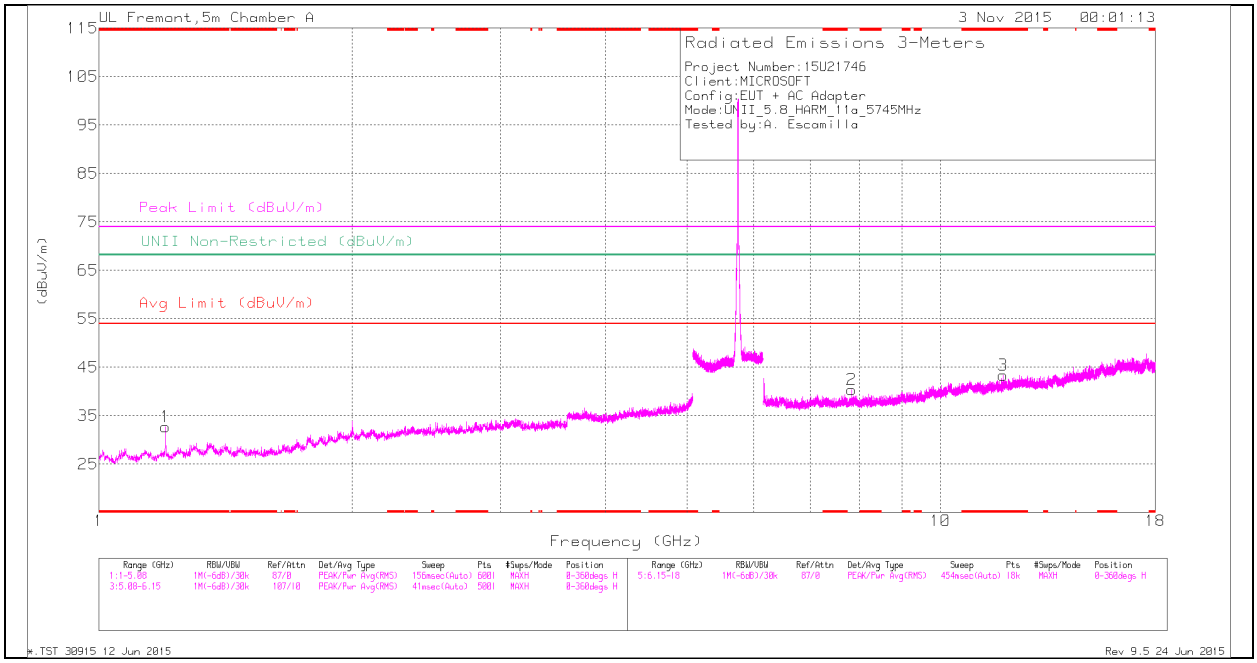
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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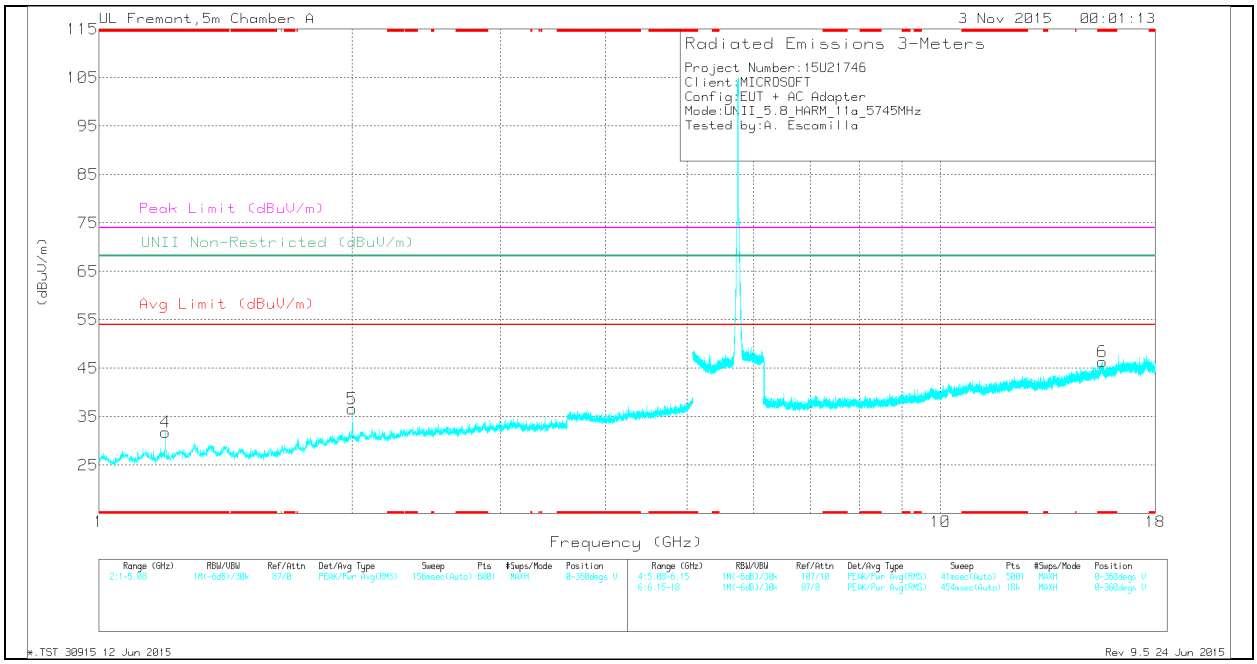
LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 1.2	40.66	Pk	28	-36	0	32.66	-	-	74	-41.34	68.2	-35.54	0-360	100	H
4	* 1.2	39.78	Pk	28	-36	0	31.78	-	-	74	-42.22	68.2	-36.42	0-360	200	V
3	* 11.874	27.72	Pk	38.5	-22.9	0	43.32	-	-	74	-30.68	68.2	-24.88	0-360	100	H
6	* 15.577	27.42	Pk	40.4	-21.5	0	46.32	-	-	74	-27.68	68.2	-21.88	0-360	100	V
5	2	39.9	Pk	31.1	-34.4	0	36.6	-	-	74	-37.4	68.2	-31.6	0-360	200	V
2	7.844	30.37	Pk	35.7	-25.7	0	40.37	-	-	74	-33.63	68.2	-27.83	0-360	201	H

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 1.2	46.92	PK-U	28	-36	0	38.92	-	-	74	-35.08	-	-	162	100	H
* 1.2	39.43	ADR	28	-36	0	31.43	54	-22.57	-	-	-	-	162	100	H
* 1.2	46.42	PK-U	28	-36	0	38.42	-	-	74	-35.58	-	-	68	227	V
* 1.2	38.07	ADR	28	-36	0	30.07	54	-23.93	-	-	-	-	68	227	V
* 11.873	34.43	PK-U	38.5	-22.9	0	50.03	-	-	74	-23.97	-	-	156	172	H
* 11.874	23.02	ADR	38.5	-22.9	0	38.62	54	-15.38	-	-	-	-	156	172	H
* 15.578	34.1	PK-U	40.4	-21.5	0	53	-	-	74	-21	-	-	95	146	V
* 15.579	23.24	ADR	40.4	-21.6	0	42.04	54	-11.96	-	-	-	-	95	146	V
2	46.11	PK-U	31.1	-34.4	0	42.81	-	-	-	-	68.2	-25.39	359	196	V
2	37.59	ADR	31.1	-34.4	0	34.29	-	-	-	-	-	-	359	196	V
7.845	36.47	PK-U	35.7	-25.7	0	46.47	-	-	-	-	68.2	-21.73	306	202	H
7.845	25.49	ADR	35.7	-25.7	0	35.49	-	-	-	-	-	-	306	202	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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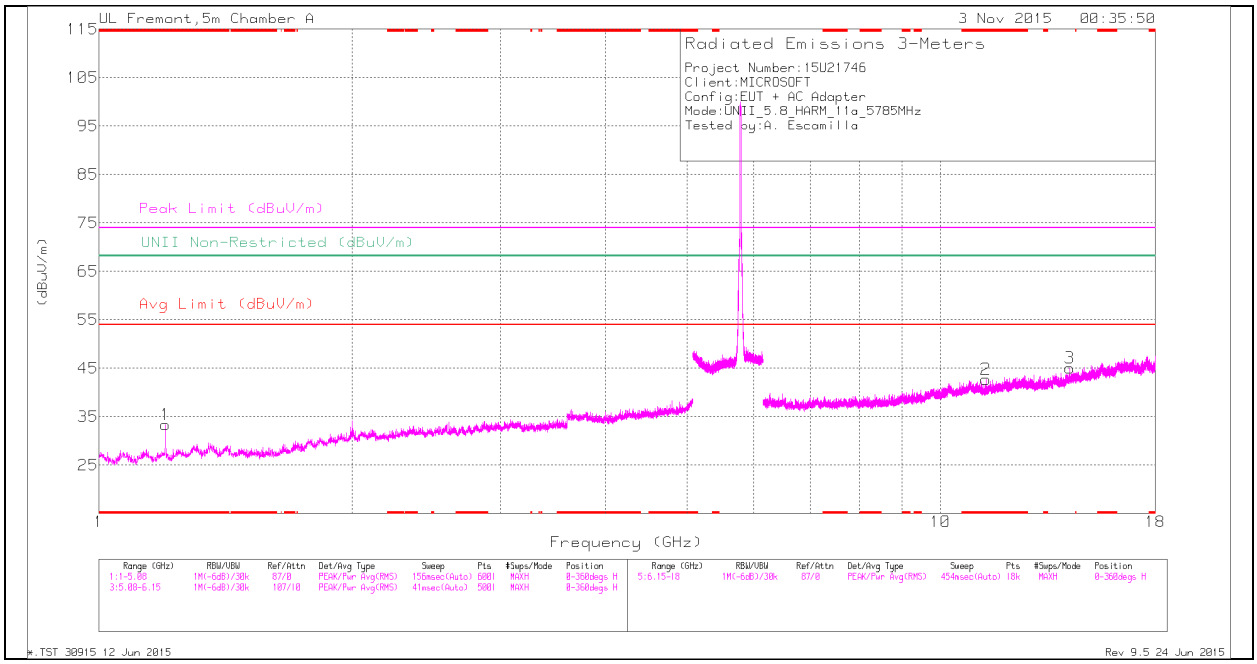
MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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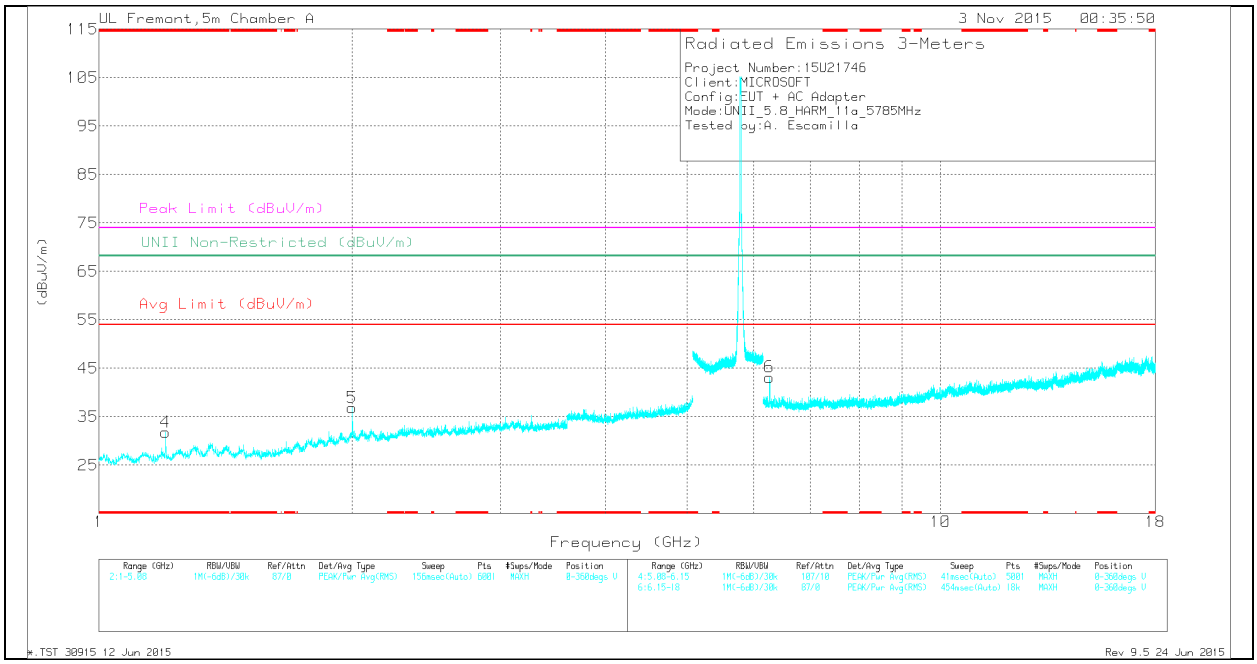
MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 1.2	41.38	Pk	28	-36	0	33.38	-	-	74	-40.62	68.2	-34.82	0-360	100	H
4	* 1.2	39.77	Pk	28	-36	0	31.77	-	-	74	-42.23	68.2	-36.43	0-360	200	V
2	* 11.322	27.51	Pk	37.8	-22.6	0	42.71	-	-	74	-31.29	68.2	-25.49	0-360	201	H
5	2	40.16	Pk	31.1	-34.4	0	36.86	-	-	74	-37.14	68.2	-31.34	0-360	200	V
6	6.261	35.67	Pk	35.5	-28	0	43.17	-	-	74	-30.83	68.2	-25.03	0-360	100	V
3	14.245	28.42	Pk	39	-22.4	0	45.02	-	-	74	-28.98	68.2	-23.18	0-360	201	H

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 1.2	46.91	PK-U	28	-36	0	38.91	-	-	74	-35.09	-	-	165	109	H
* 1.2	39.22	ADR	28	-36	0	31.22	54	-22.78	-	-	-	-	165	109	H
* 1.2	46.13	PK-U	28	-36	0	38.13	-	-	74	-35.87	-	-	65	218	V
* 1.2	37.12	ADR	28	-36	0	29.12	54	-24.88	-	-	-	-	65	218	V
* 11.323	33.22	PK-U	37.8	-22.6	0	48.42	-	-	74	-25.58	-	-	132	159	H
* 11.32	22.29	ADR	37.8	-22.6	0	37.49	54	-16.51	-	-	-	-	132	159	H
2	46	PK-U	31.1	-34.4	0	42.7	-	-	-	-	68.2	-25.5	1	200	V
2	38.04	ADR	31.1	-34.4	0	34.74	-	-	-	-	-	-	1	200	V
6.26	28.2	ADR	35.5	-28	0	35.7	-	-	-	-	-	-	34	176	V
6.261	40.02	PK-U	35.5	-28	0	47.52	-	-	-	-	68.2	-20.68	34	176	V
14.244	23.68	ADR	39	-22.4	0	40.28	-	-	-	-	-	-	61	212	H
14.246	34.55	PK-U	39	-22.4	0	51.15	-	-	-	-	68.2	-17.05	61	212	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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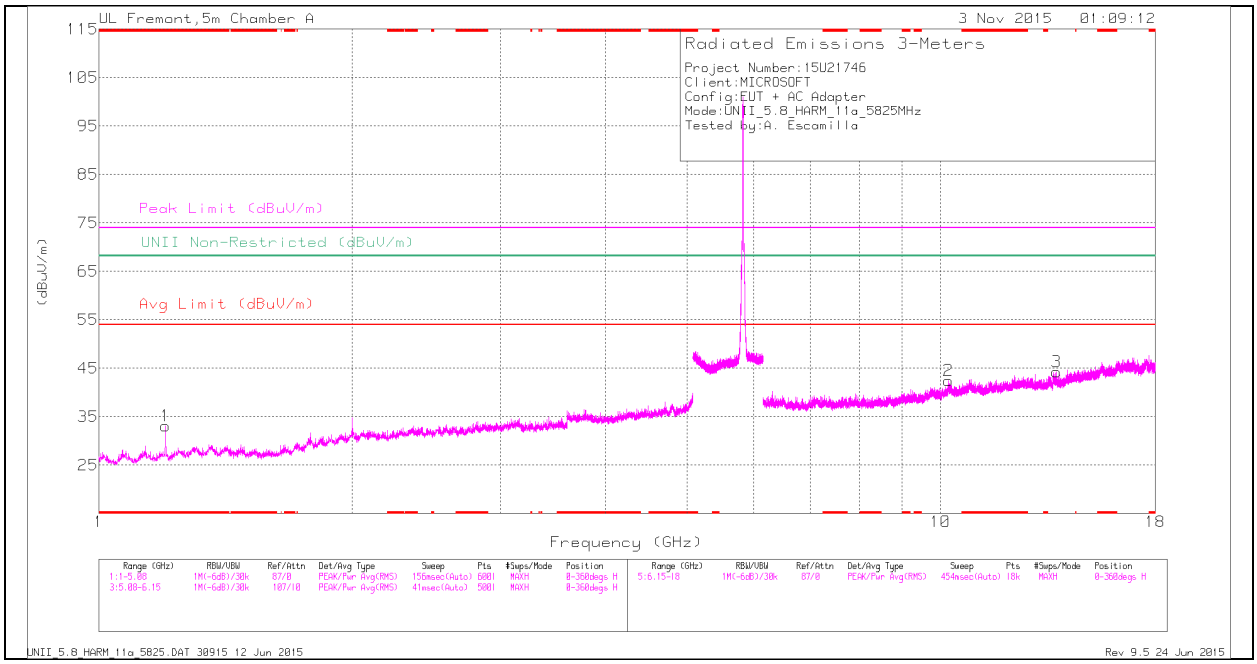
HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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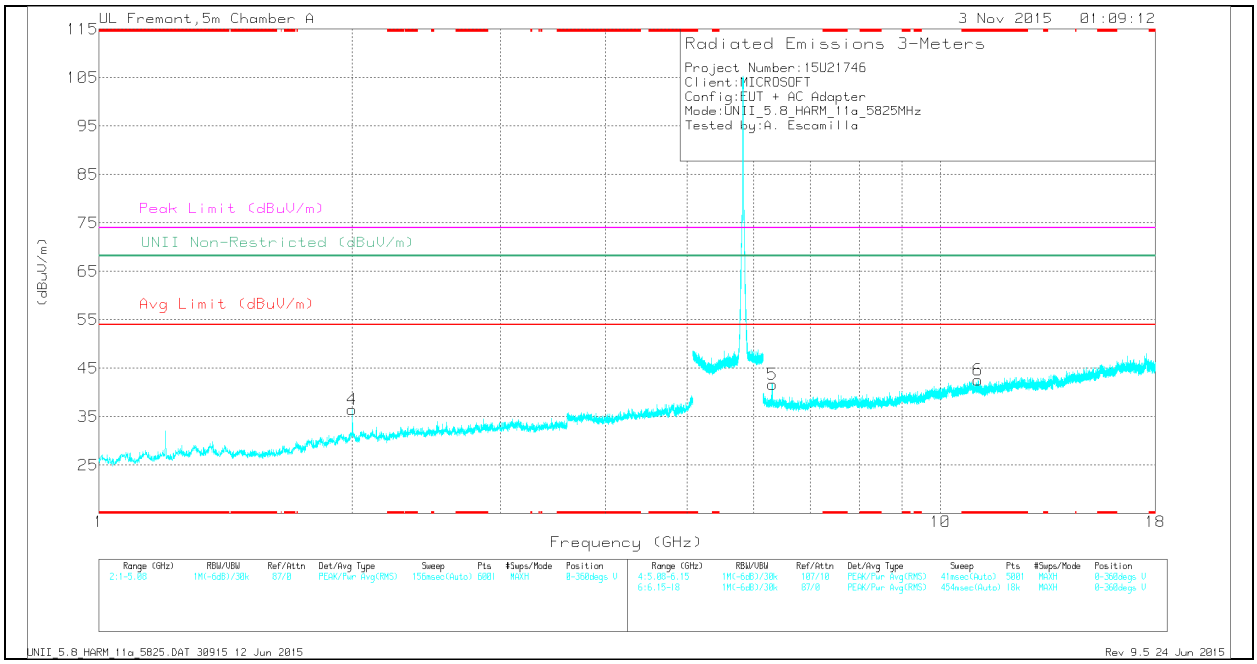
HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 1.2	41.11	Pk	28	-36	0	33.11	-	-	74	-40.89	68.2	-35.09	0-360	100	H
6	* 11.086	27.44	Pk	37.9	-22.7	0	42.64	-	-	74	-31.36	68.2	-25.56	0-360	100	V
4	2	39.67	Pk	31.1	-34.3	0	36.47	-	-	74	-37.53	68.2	-31.73	0-360	100	V
5	6.311	34.09	Pk	35.5	-27.9	0	41.69	-	-	74	-32.31	68.2	-26.51	0-360	200	V
2	10.229	27.5	Pk	37.3	-22.3	0	42.5	-	-	74	-31.5	68.2	-25.7	0-360	100	H
3	13.742	28.18	Pk	38.7	-22.6	0	44.28	-	-	74	-29.72	68.2	-23.92	0-360	100	H

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 1.2	47.11	PK-U	28	-36	0	39.11	-	-	74	-34.89	-	-	164	112	H
* 1.2	39.34	ADR	28	-36	0	31.34	54	-22.66	-	-	-	-	164	112	H
* 11.084	34.14	PK-U	37.9	-22.7	0	49.34	-	-	74	-24.66	-	-	6	205	V
* 11.087	23.16	ADR	37.9	-22.7	0	38.36	54	-15.64	-	-	-	-	6	205	V
2	46.55	PK-U	31.1	-34.4	0	43.25	-	-	-	-	68.2	-24.95	4	197	V
2	38.17	ADR	31.1	-34.4	0	34.87	-	-	-	-	-	-	4	197	V
6.312	41.57	PK-U	35.5	-27.9	0	49.17	-	-	-	-	68.2	-19.03	268	236	V
6.313	30.95	ADR	35.5	-27.9	0	38.55	-	-	-	-	-	-	268	236	V
10.229	23.27	ADR	37.3	-22.3	0	38.27	-	-	-	-	-	-	105	151	H
10.231	34.45	PK-U	37.3	-22.3	0	49.45	-	-	-	-	68.2	-18.75	105	151	H
13.742	35.35	PK-U	38.7	-22.6	0	51.45	-	-	-	-	68.2	-16.75	84	127	H
13.742	23.79	ADR	38.7	-22.6	0	39.89	-	-	-	-	-	-	84	127	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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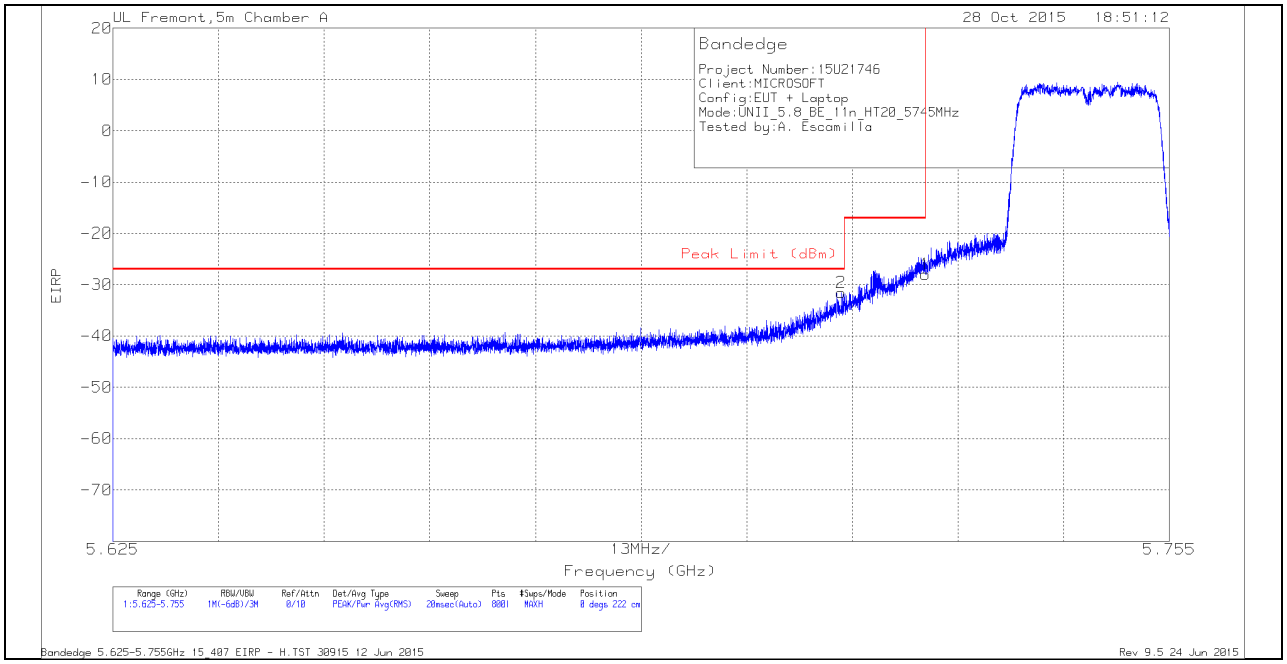
9.4.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.8 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.715	-58.26	Pk	34.7	-19.8	11.8	-31.56	-27	-4.56	0	222	H
1	5.725	-54.72	Pk	34.7	-19.8	11.8	-28.02	-17	-11.02	0	222	H

Pk - Peak detector

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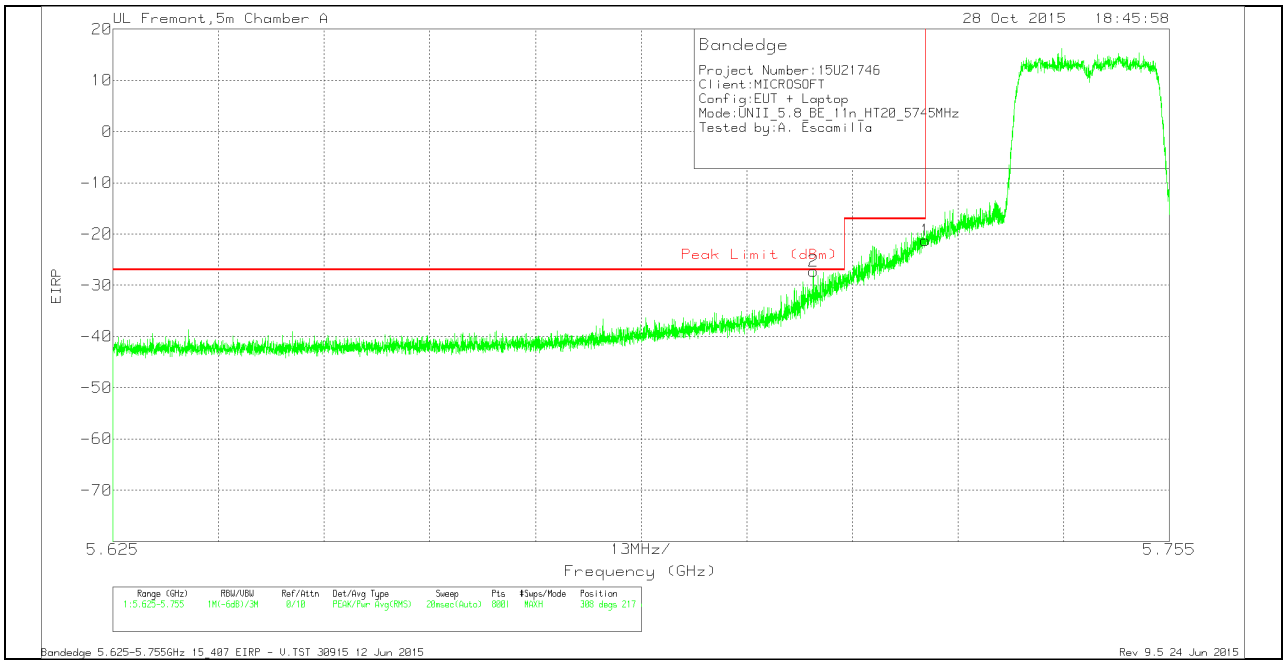
VERTICAL PEAK PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.711	-53.88	Pk	34.7	-19.9	11.8	-27.28	-27	-.28	308	217	V
1	5.725	-47.89	Pk	34.7	-19.8	11.8	-21.19	-17	-4.19	308	217	V

Pk - Peak detector

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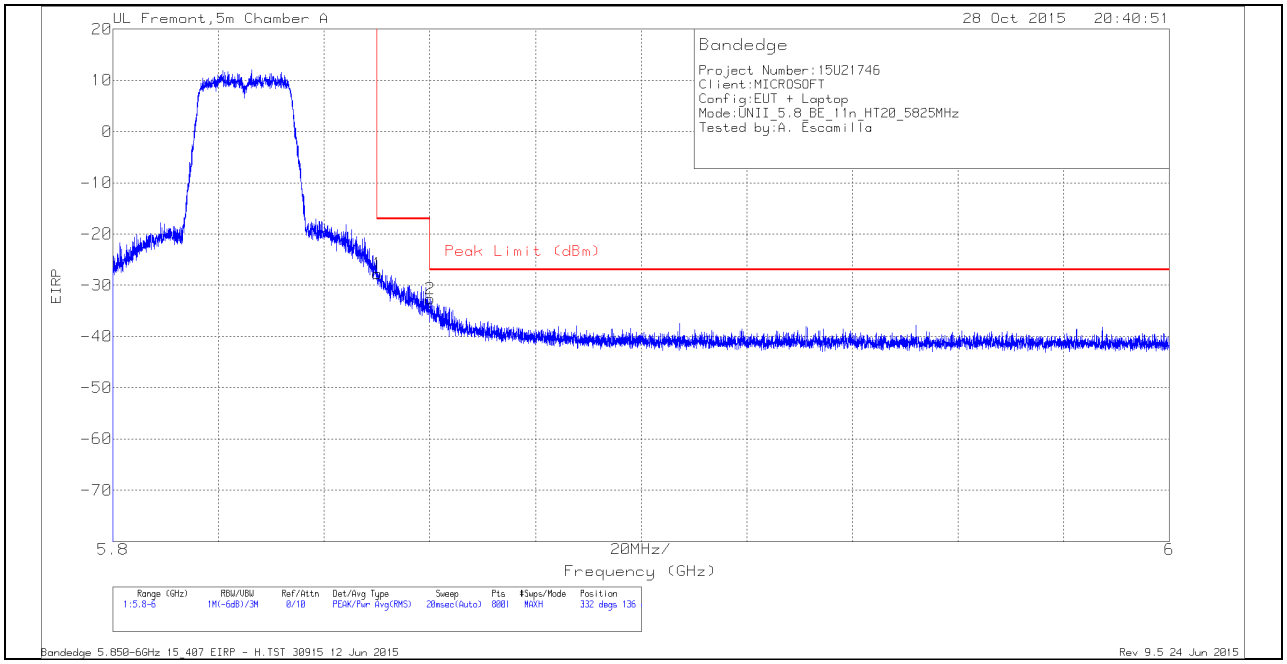
AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-55.35	Pk	35.1	-19.3	11.8	-27.75	-17	-10.75	332	136	H
2	5.86	-60.16	Pk	35.1	-19.4	11.8	-32.66	-27	-5.66	332	136	H

Pk - Peak detector

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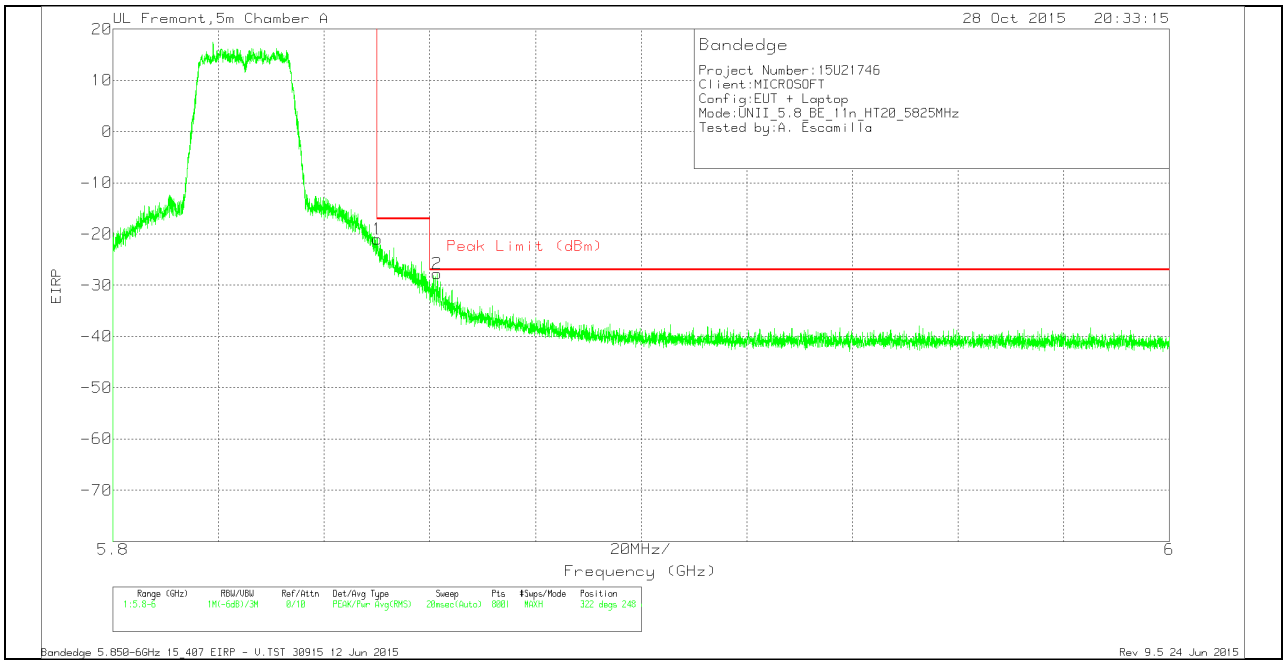
VERTICAL PEAK PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-48.55	Pk	35.1	-19.3	11.8	-20.95	-17	-3.95	322	248	V
2	5.861	-55.2	Pk	35.1	-19.4	11.8	-27.7	-27	-.7	322	248	V

Pk - Peak detector

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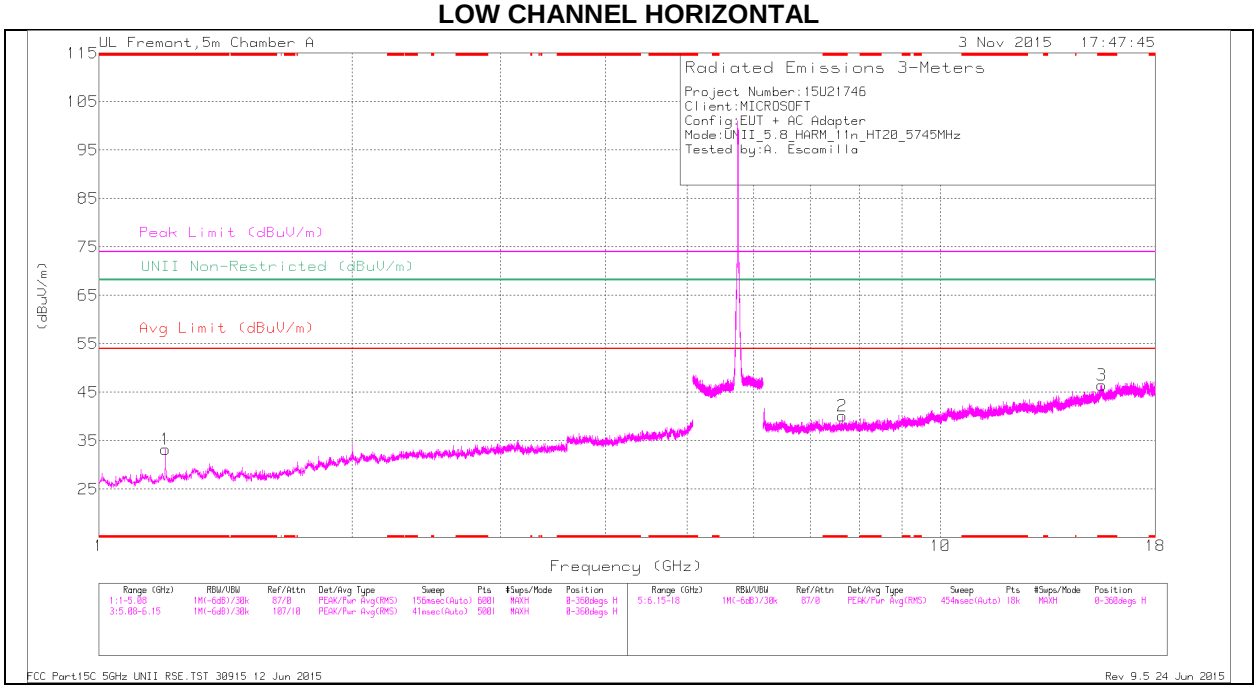
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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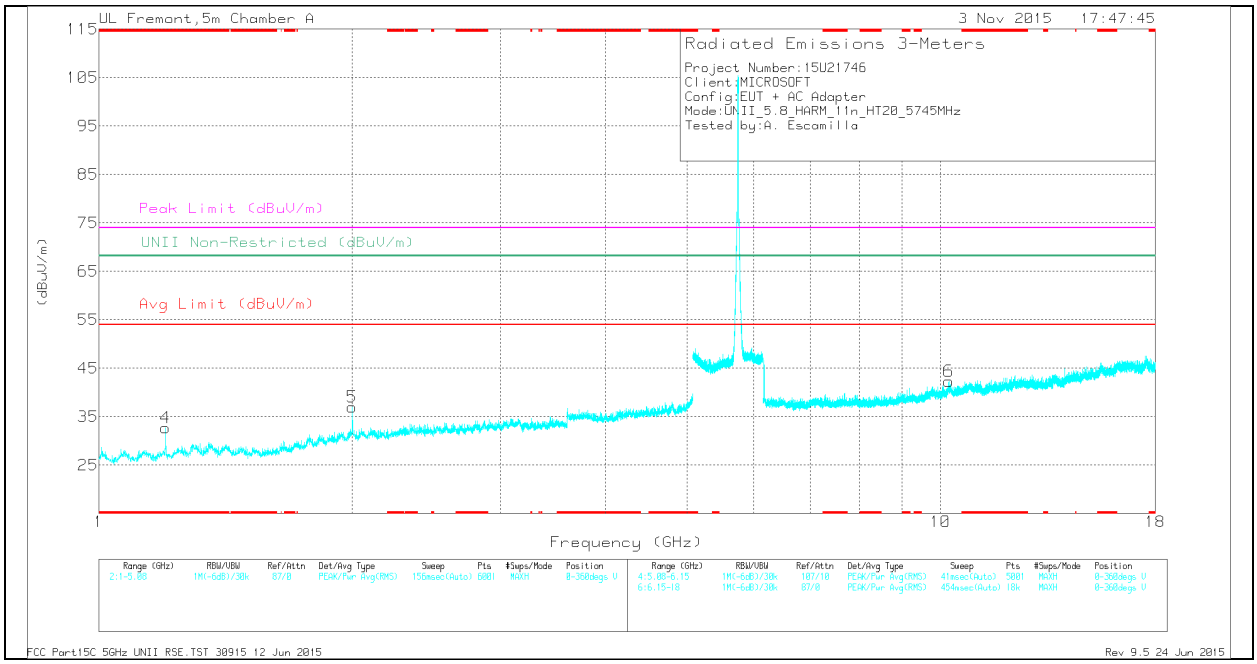
LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 1.2	41.2	Pk	28	-36	0	33.2	-	-	74	-40.8	68.2	-35	0-360	100	H
4	* 1.2	40.74	Pk	28	-36	0	32.74	-	-	74	-41.26	68.2	-35.46	0-360	200	V
2	* 7.642	30	Pk	35.6	-25.5	0	40.1	-	-	74	-33.9	68.2	-28.1	0-360	100	H
3	* 15.558	27.19	Pk	40.3	-21	0	46.49	-	-	74	-27.51	68.2	-21.71	0-360	201	H
5	2	40.2	Pk	31.1	-34.3	0	37	-	-	74	-37	68.2	-31.2	0-360	100	V
6	10.229	27.29	Pk	37.3	-22.3	0	42.29	-	-	74	-31.71	68.2	-25.91	0-360	100	V

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 1.2	47.11	PK-U	28	-36	0	39.11	-	-	74	-34.89	-	-	164	112	H
* 1.2	38.9	ADR	28	-36	.1	31	54	-23	-	-	-	-	164	112	H
* 1.2	46.51	PK-U	28	-36	0	38.51	-	-	74	-35.49	-	-	64	251	V
* 1.2	38.42	ADR	28	-36	.1	30.52	54	-23.48	-	-	-	-	64	251	V
* 7.643	36.03	PK-U	35.6	-25.5	0	46.13	-	-	74	-27.87	-	-	57	180	H
* 7.64	25.2	ADR	35.6	-25.5	.1	35.4	54	-18.6	-	-	-	-	57	180	H
* 15.559	34.26	PK-U	40.3	-21	0	53.56	-	-	74	-20.44	-	-	118	219	H
* 15.559	23.52	ADR	40.3	-21	.1	42.92	54	-11.08	-	-	-	-	118	219	H
2	46.94	PK-U	31.1	-34.4	0	43.64	-	-	-	-	68.2	-24.56	0	188	V
2	38.7	ADR	31.1	-34.4	.1	35.5	-	-	-	-	-	-	0	188	V
10.228	34.76	PK-U	37.3	-22.3	0	49.76	-	-	-	-	68.2	-18.44	39	193	V
10.23	23.39	ADR	37.3	-22.3	.1	38.49	-	-	-	-	-	-	39	193	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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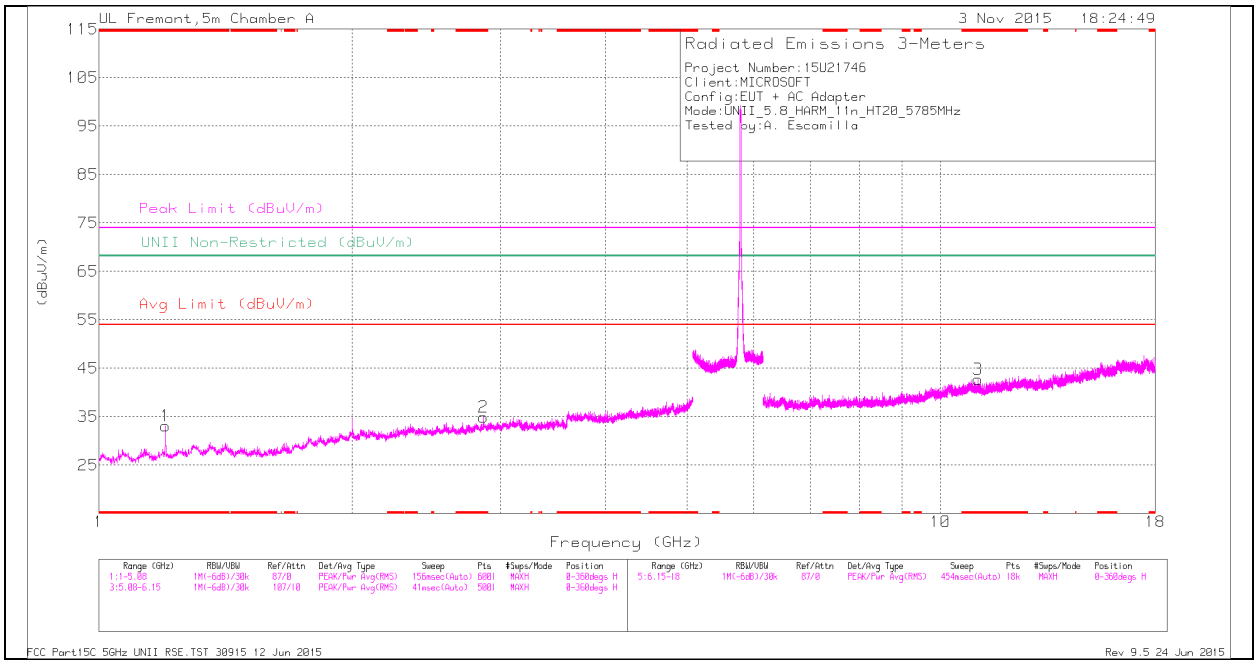
MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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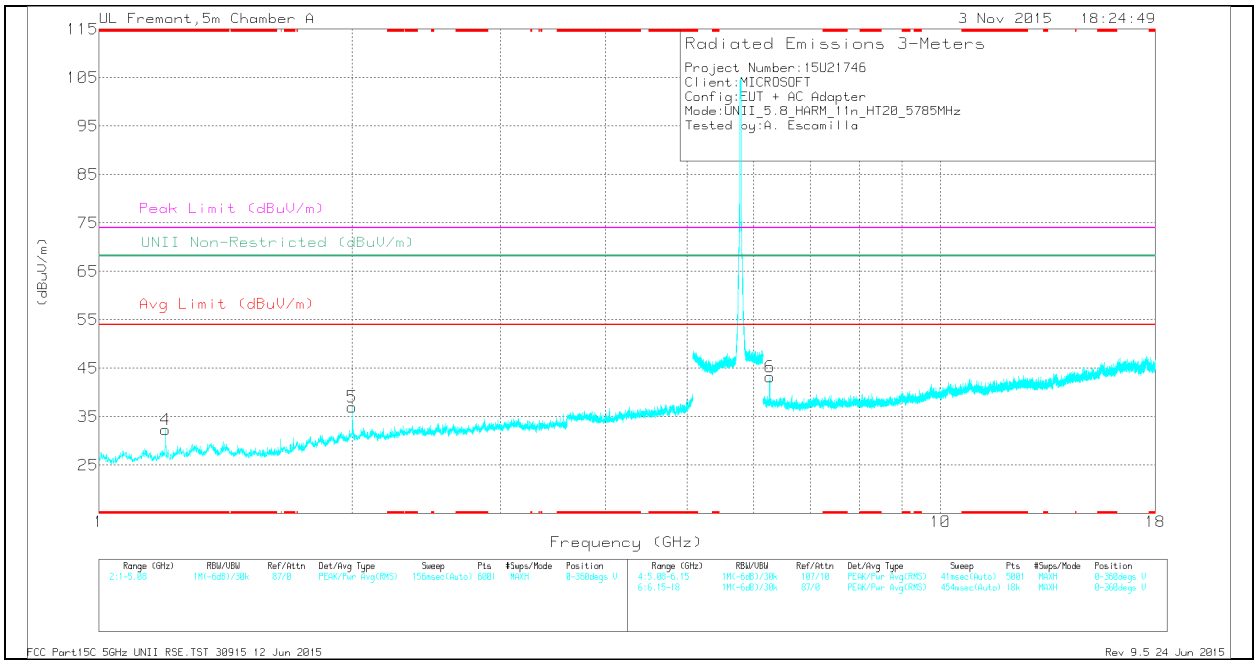
MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 1.2	41.16	Pk	28	-36	0	33.16	-	-	74	-40.84	68.2	-35.04	0-360	100	H
2	* 2.862	35.64	Pk	32.6	-33.3	0	34.94	-	-	74	-39.06	68.2	-33.26	0-360	100	H
4	* 1.2	40.37	Pk	28	-36	0	32.37	-	-	74	-41.63	68.2	-35.83	0-360	200	V
3	* 11.086	27.5	Pk	37.9	-22.7	0	42.7	-	-	74	-31.3	68.2	-25.5	0-360	201	H
5	2	40.26	Pk	31.1	-34.3	0	37.06	-	-	74	-36.94	68.2	-31.14	0-360	200	V
6	6.27	35.78	Pk	35.5	-28	0	43.28	-	-	74	-30.72	68.2	-24.92	0-360	200	V

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 1.2	47.56	PK-U	28	-36	0	39.56	-	-	74	-34.44	-	-	164	106	H
* 1.2	39.91	ADR	28	-36	.1	32.01	54	-21.99	-	-	-	-	164	106	H
* 2.861	42.75	PK-U	32.6	-33.3	0	42.05	-	-	74	-31.95	-	-	83	160	H
* 2.861	31.09	ADR	32.6	-33.3	.1	30.49	54	-23.51	-	-	-	-	83	160	H
* 1.2	47.28	PK-U	28	-36	0	39.28	-	-	74	-34.72	-	-	64	235	V
* 1.2	38.99	ADR	28	-36	.1	31.09	54	-22.91	-	-	-	-	64	235	V
* 11.087	34.07	PK-U	37.9	-22.7	0	49.27	-	-	74	-24.73	-	-	44	213	H
* 11.088	23.22	ADR	37.9	-22.7	.1	38.52	54	-15.48	-	-	-	-	44	213	H
2	46.44	PK-U	31.1	-34.4	0	43.14	-	-	-	-	68.2	-25.06	3	187	V
2	39.08	ADR	31.1	-34.4	.1	35.88	-	-	-	-	-	-	3	187	V
6.27	40.04	PK-U	35.5	-28	0	47.54	-	-	-	-	68.2	-20.66	160	176	V
6.271	28.25	ADR	35.5	-28	.1	35.85	-	-	-	-	-	-	160	176	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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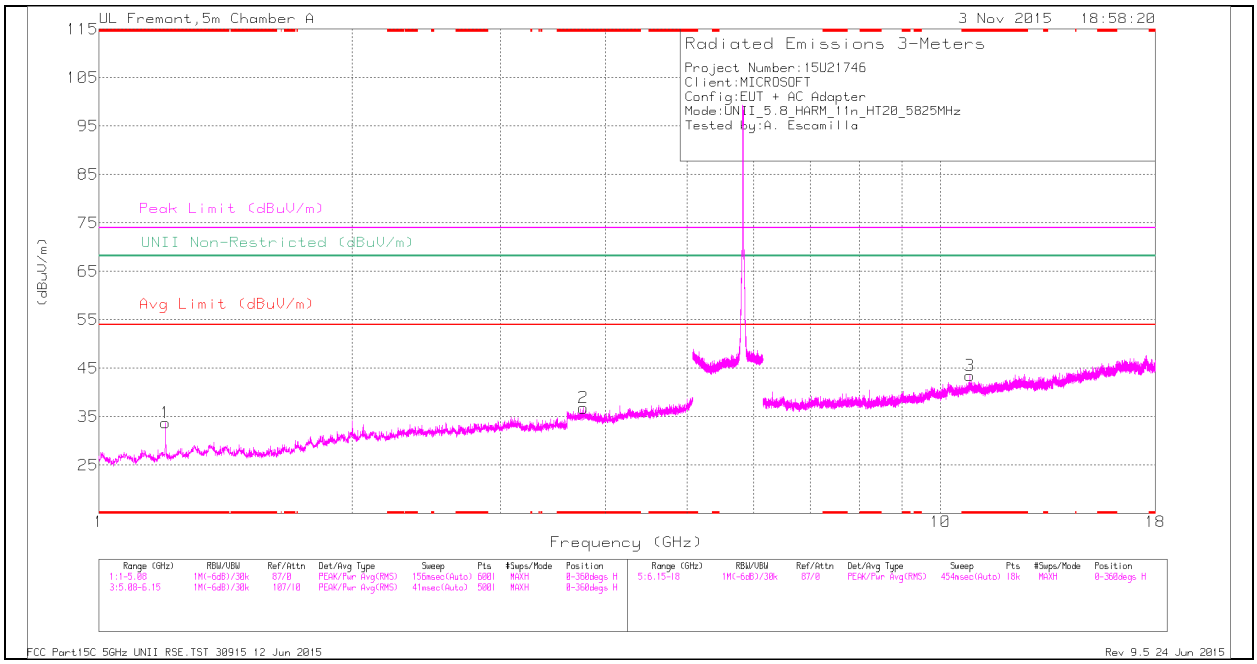
HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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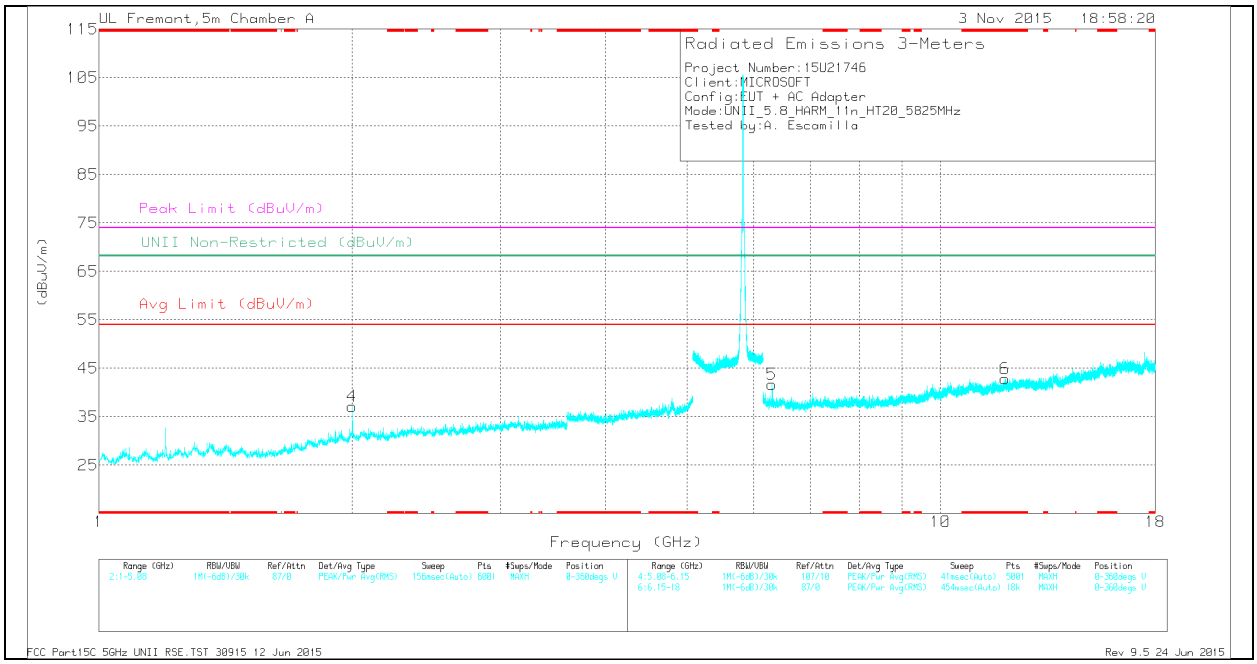
HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 1.2	41.78	Pk	28	-36	0	33.78	-	-	74	-40.22	68.2	-34.42	0-360	100	H
2	* 3.765	35.41	Pk	33.3	-31.9	0	36.81	-	-	74	-37.19	68.2	-31.39	0-360	201	H
3	* 10.838	27.62	Pk	37.8	-21.9	0	43.52	-	-	74	-30.48	68.2	-24.68	0-360	201	H
6	* 11.937	26.63	Pk	38.6	-22.4	0	42.83	-	-	74	-31.17	68.2	-25.37	0-360	200	V
4	2	40.36	Pk	31.1	-34.3	0	37.16	-	-	74	-36.84	68.2	-31.04	0-360	200	V
5	6.309	34	Pk	35.5	-27.8	0	41.7	-	-	74	-32.3	68.2	-26.5	0-360	200	V

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 1.2	47.07	PK-U	28	-36	0	39.07	-	-	74	-34.93	-	-	167	114	H
* 1.2	39.52	ADR	28	-36	.1	31.62	54	-22.38	-	-	-	-	167	114	H
* 3.766	43.2	PK-U	33.3	-31.9	0	44.6	-	-	74	-29.4	-	-	104	155	H
* 3.767	30.72	ADR	33.3	-31.9	.1	32.22	54	-21.78	-	-	-	-	104	155	H
* 10.838	34.02	PK-U	37.8	-21.9	0	49.92	-	-	74	-24.08	-	-	191	231	H
* 10.837	22.95	ADR	37.8	-21.9	.1	38.95	54	-15.05	-	-	-	-	191	231	H
* 11.938	34.61	PK-U	38.6	-22.4	0	50.81	-	-	74	-23.19	-	-	352	181	V
* 11.936	22.79	ADR	38.6	-22.4	.1	39.09	54	-14.91	-	-	-	-	352	181	V
2	46.21	PK-U	31.1	-34.4	0	42.91	-	-	-	-	68.2	-25.29	1	185	V
2	38.38	ADR	31.1	-34.4	.1	35.18	-	-	-	-	-	-	1	185	V
6.307	28.76	ADR	35.6	-27.8	.1	36.66	-	-	-	-	-	-	274	209	V
6.308	40.82	PK-U	35.6	-27.8	0	48.62	-	-	-	-	68.2	-19.58	274	209	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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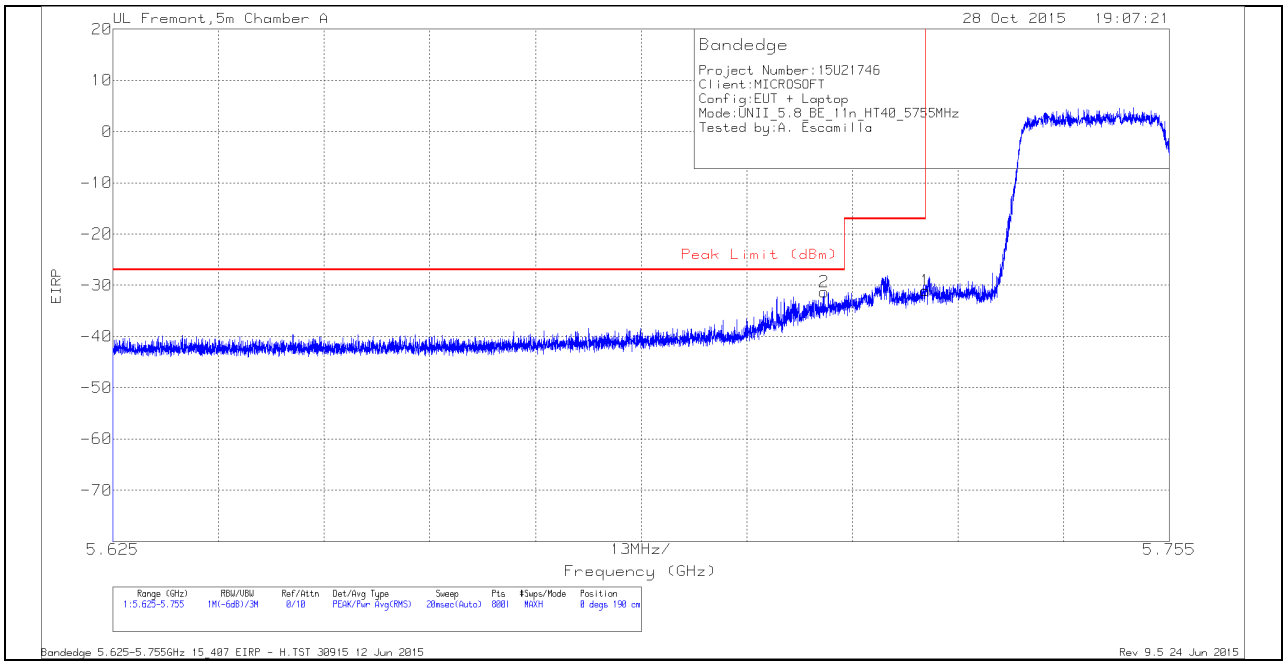
9.4.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.8 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.713	-57.88	Pk	34.7	-19.9	11.8	-31.28	-27	-4.28	0	190	H
1	5.725	-57.76	Pk	34.7	-19.8	11.8	-31.06	-17	-14.06	0	190	H

Pk - Peak detector

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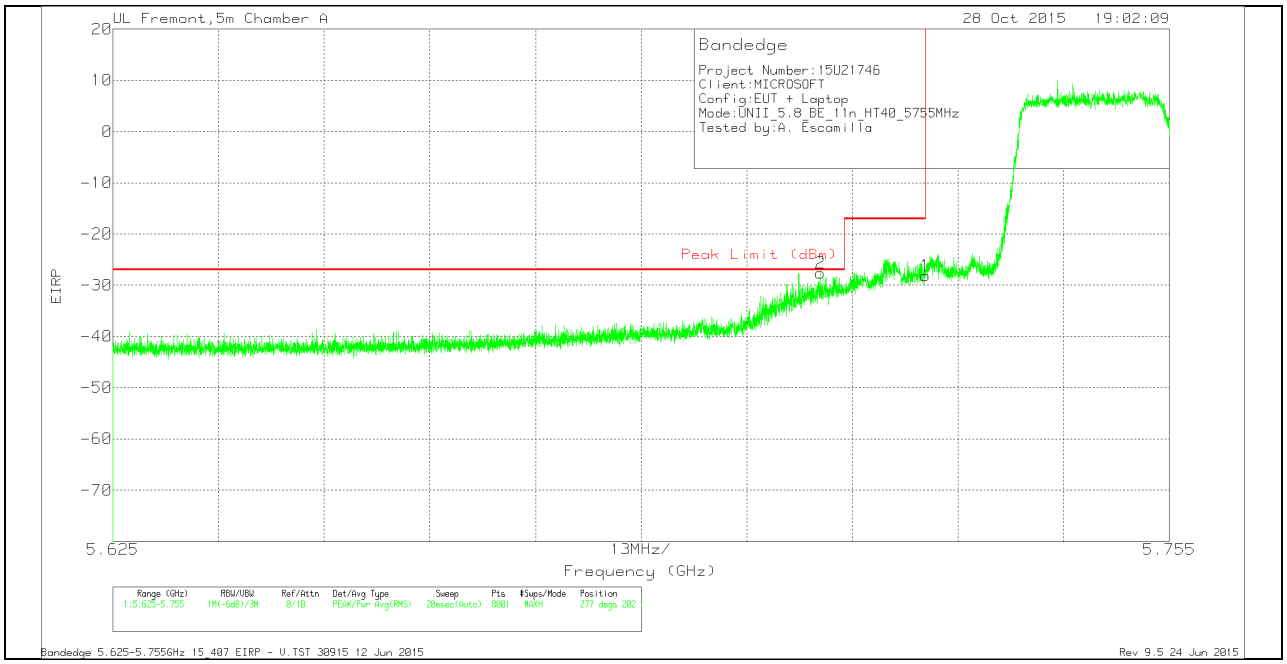
VERTICAL PEAK PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.712	-54.22	Pk	34.7	-19.9	11.8	-27.62	-27	-.62	277	202	V
1	5.725	-54.82	Pk	34.7	-19.8	11.8	-28.12	-17	-11.12	277	202	V

Pk - Peak detector

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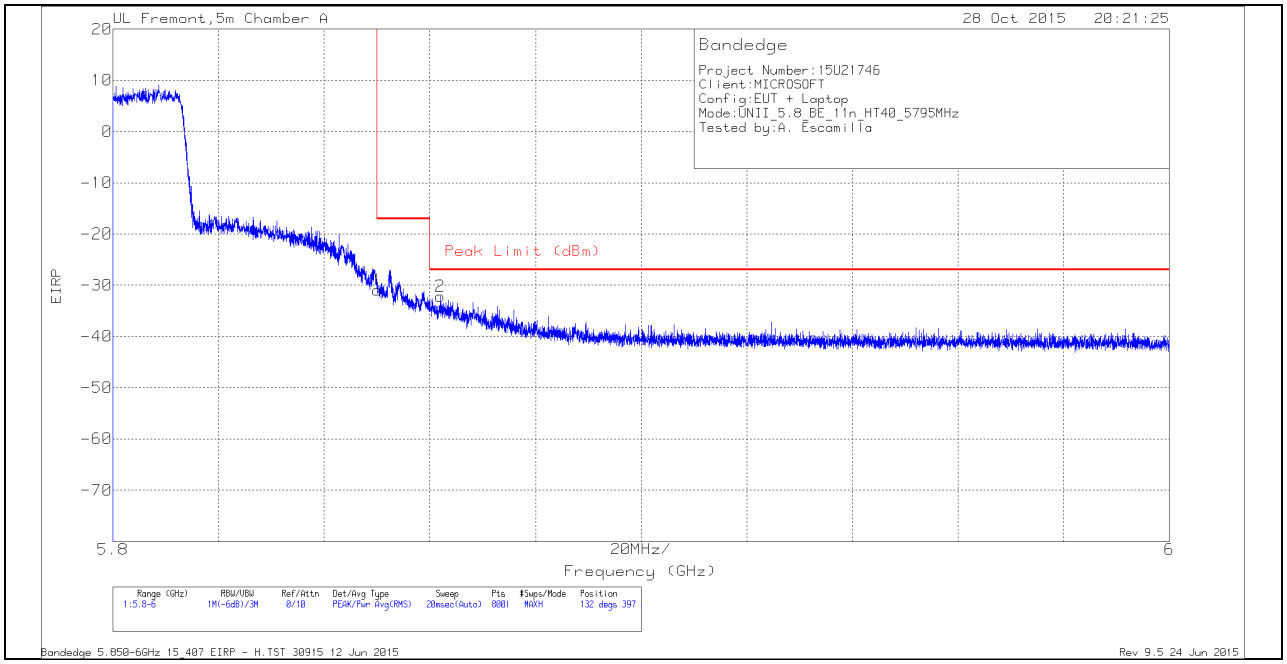
AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-58.48	Pk	35.1	-19.3	11.8	-30.88	-17	-13.88	132	397	H
2	5.862	-59.8	Pk	35.1	-19.3	11.8	-32.2	-27	-5.2	132	397	H

Pk - Peak detector

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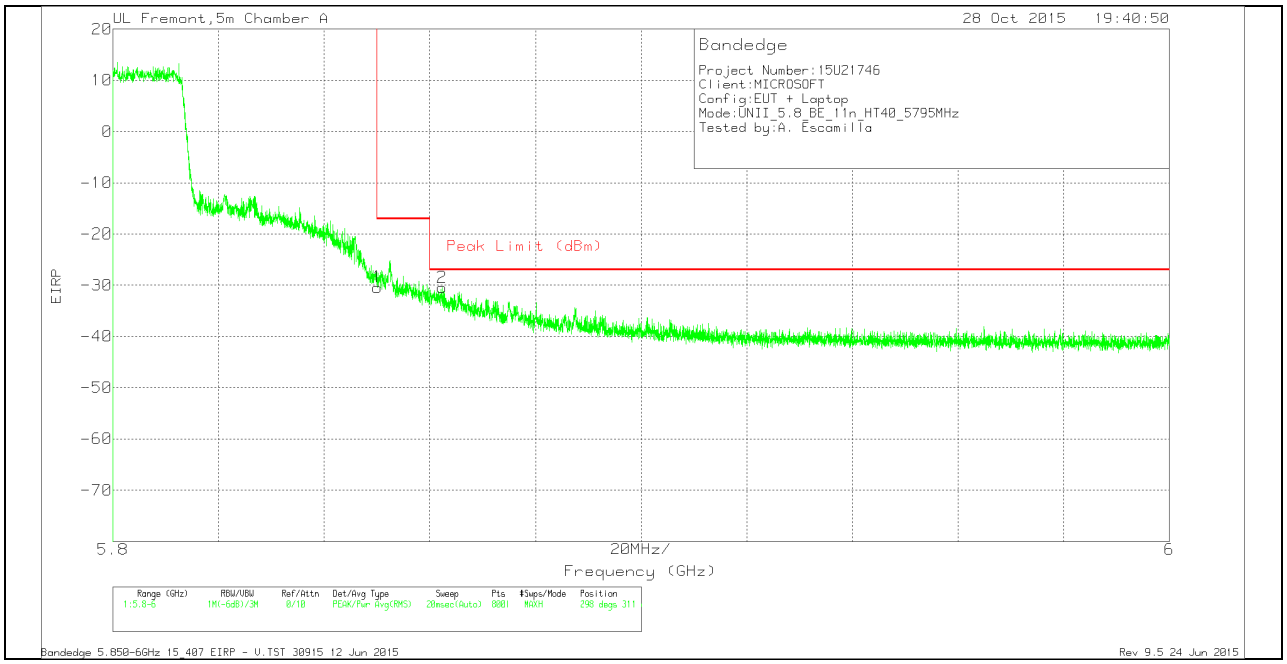
VERTICAL PEAK PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-57.98	Pk	35.1	-19.3	11.8	-30.38	-17	-13.38	298	311	V
2	5.862	-58.02	Pk	35.1	-19.3	11.8	-30.42	-27	-3.42	298	311	V

Pk - Peak detector

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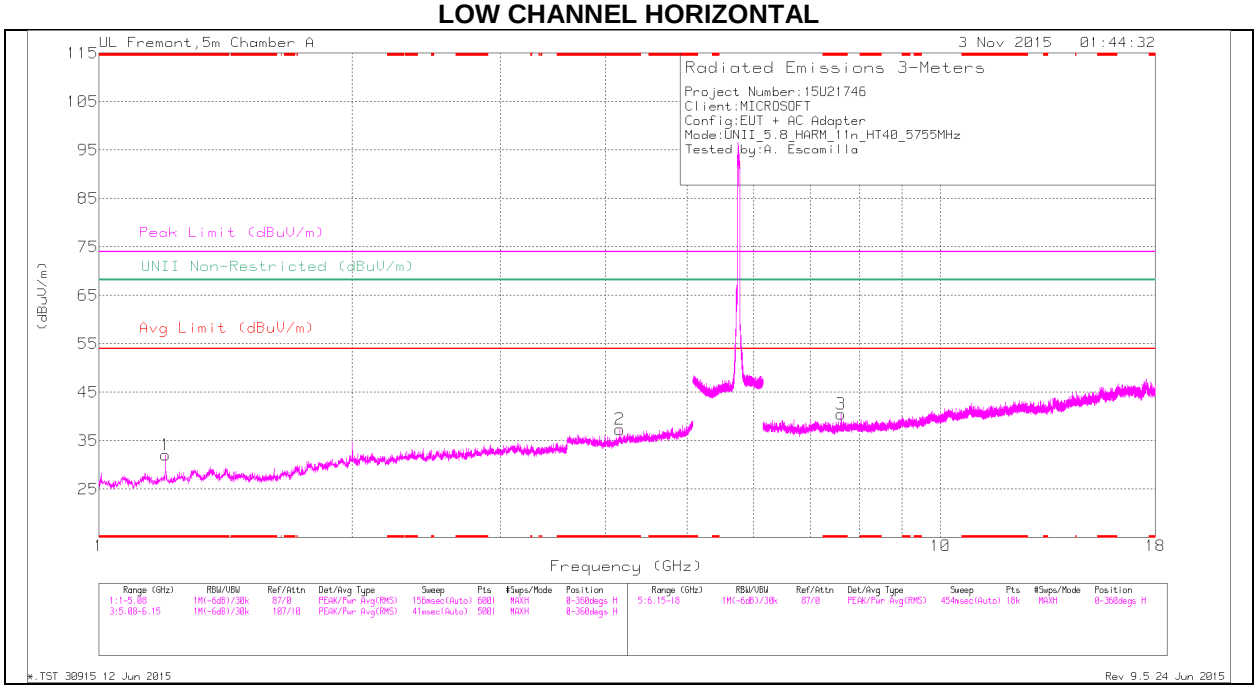
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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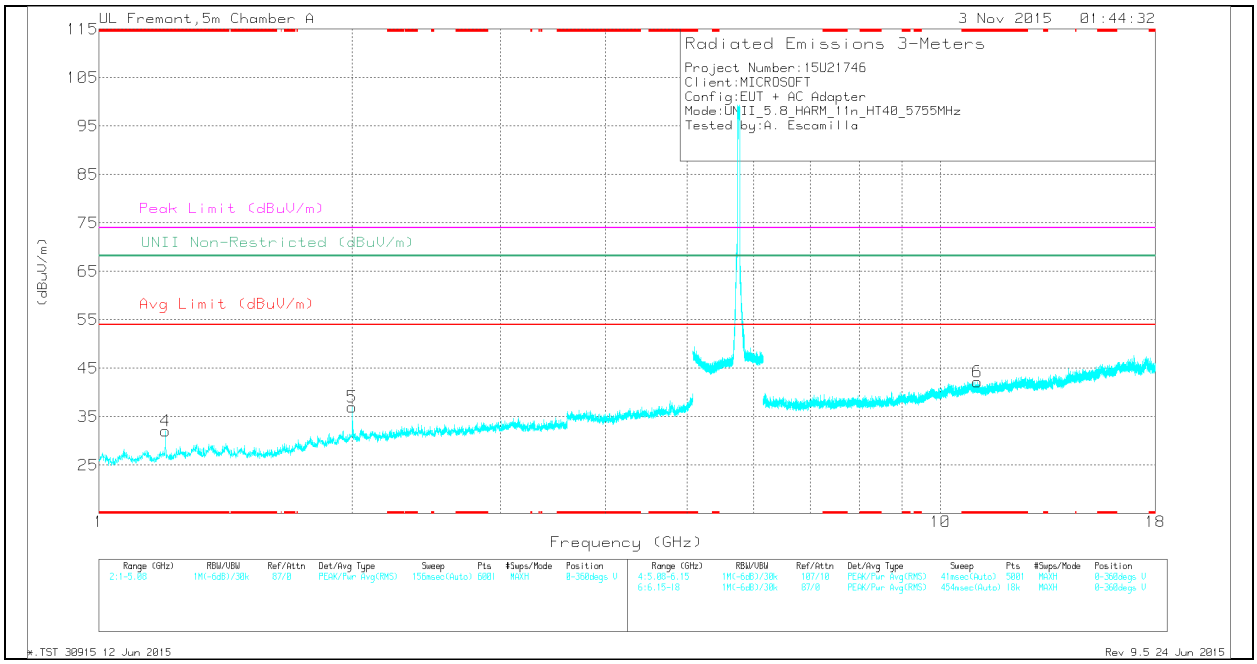
LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 1.2	40.08	Pk	28	-36	0	32.08	-	-	74	-41.92	68.2	-36.12	0-360	100	H
2	* 4.158	35.63	Pk	33.3	-31.6	0	37.33	-	-	74	-36.67	68.2	-30.87	0-360	201	H
4	* 1.2	40.02	Pk	28	-36	0	32.02	-	-	74	-41.98	68.2	-36.18	0-360	200	V
3	* 7.621	30.35	Pk	35.6	-25.4	0	40.55	-	-	74	-33.45	68.2	-27.65	0-360	100	H
6	* 11.053	27.06	Pk	37.9	-22.8	0	42.16	-	-	74	-31.84	68.2	-26.04	0-360	200	V
5	2	40.18	Pk	31.1	-34.3	0	36.98	-	-	74	-37.02	68.2	-31.22	0-360	200	V

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 1.2	46.76	PK-U	28	-36	0	38.76	-	-	74	-35.24	-	-	166	118	H
* 1.2	38.84	ADR	28	-36	.18	31.02	54	-22.98	-	-	-	-	166	118	H
* 4.156	42.36	PK-U	33.3	-31.7	0	43.96	-	-	74	-30.04	-	-	117	194	H
* 4.156	30.77	ADR	33.3	-31.6	.18	32.65	54	-21.35	-	-	-	-	117	194	H
* 1.2	47.62	PK-U	28	-36	0	39.62	-	-	74	-34.38	-	-	65	233	V
* 1.2	39.67	ADR	28	-36	.18	31.85	54	-22.15	-	-	-	-	65	233	V
* 7.622	36.36	PK-U	35.6	-25.4	0	46.56	-	-	74	-27.44	-	-	72	159	H
* 7.621	25.08	ADR	35.6	-25.4	.18	35.46	54	-18.54	-	-	-	-	72	159	H
* 11.052	34.12	PK-U	37.9	-22.8	0	49.22	-	-	74	-24.78	-	-	23	229	V
* 11.052	23.36	ADR	37.9	-22.8	.18	38.64	54	-15.36	-	-	-	-	23	229	V
2	47.13	PK-U	31.1	-34.3	0	43.93	-	-	-	-	68.2	-24.27	3	188	V
2	38.76	ADR	31.1	-34.4	.18	35.64	-	-	-	-	-	-	3	188	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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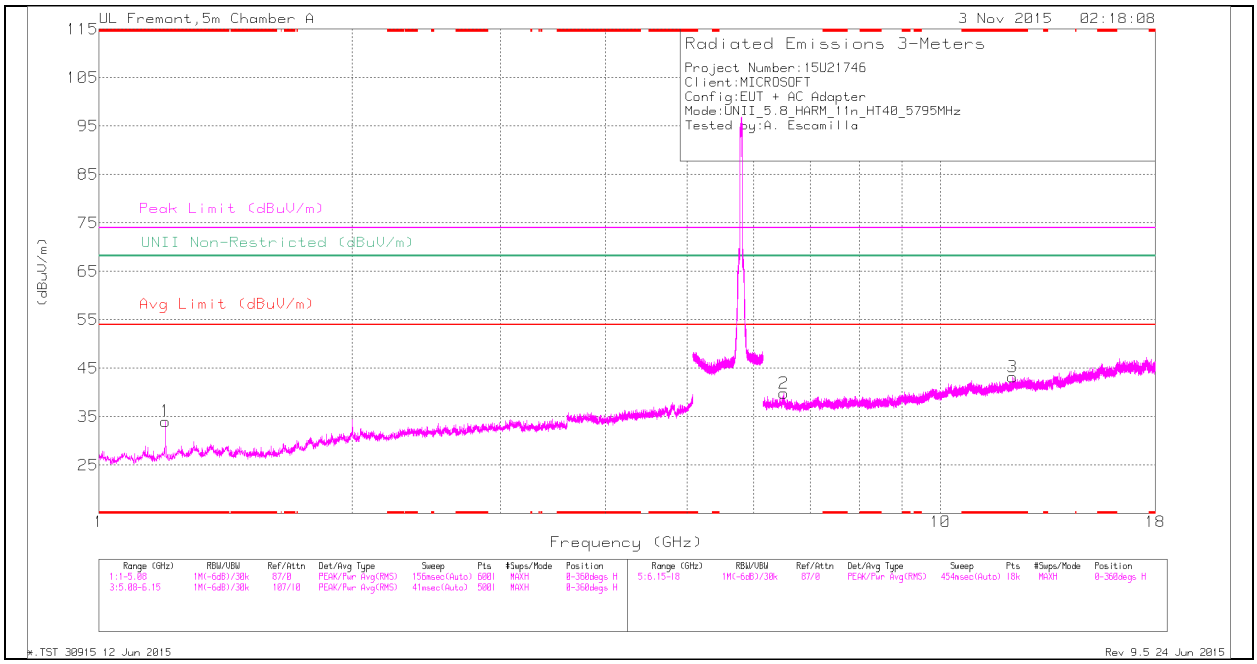
HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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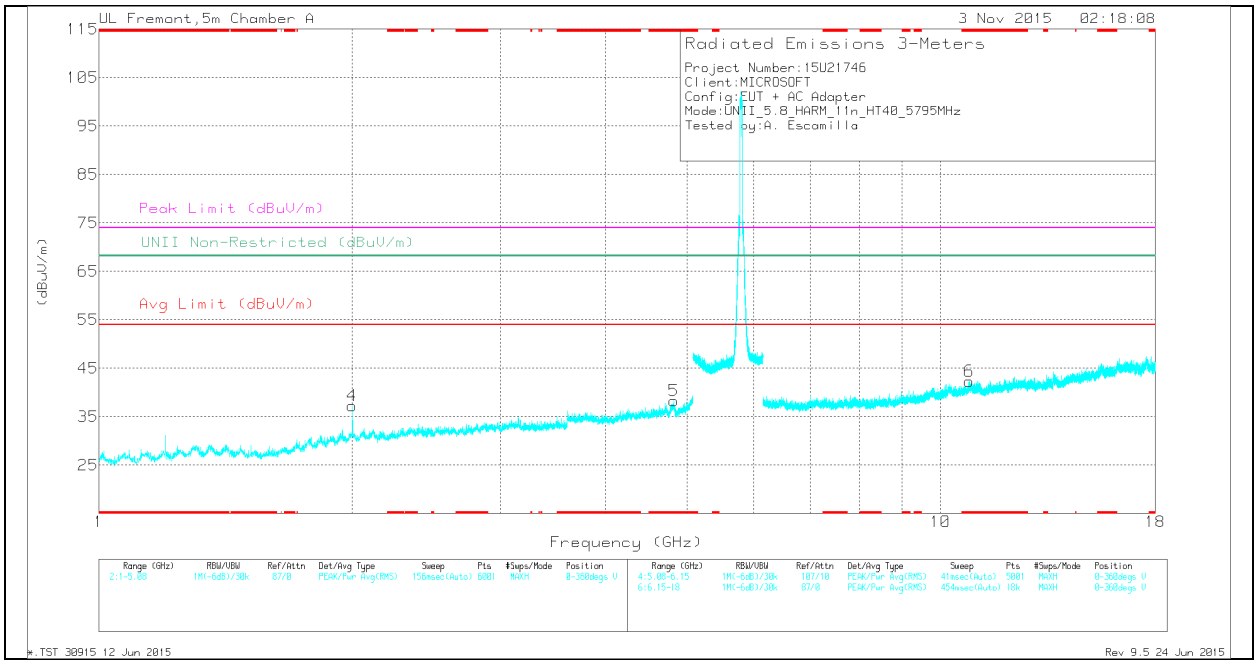
HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 1.2	42.08	Pk	28	-36	0	34.08	-	-	74	-39.92	68.2	-34.12	0-360	100	H
5	* 4.819	34.35	Pk	33.9	-29.9	0	38.35	-	-	74	-35.65	68.2	-29.85	0-360	100	V
3	* 12.184	27	Pk	38.8	-22.6	0	43.2	-	-	74	-30.8	68.2	-25	0-360	100	H
6	* 10.819	26.64	Pk	37.8	-22.1	0	42.34	-	-	74	-31.66	68.2	-25.86	0-360	100	V
4	2	40.42	Pk	31.1	-34.3	0	37.22	-	-	74	-36.78	68.2	-30.98	0-360	200	V
2	6.514	30.69	Pk	35.5	-26.3	0	39.89	-	-	74	-34.11	68.2	-28.31	0-360	100	H

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 1.2	47.61	PK-U	28	-36	0	39.61	-	-	74	-34.39	-	-	167	107	H
* 1.2	40.22	ADR	28	-36	.18	32.4	54	-21.6	-	-	-	-	167	107	H
* 4.817	43.32	PK-U	33.9	-29.9	0	47.32	-	-	74	-26.68	-	-	81	183	V
* 4.819	30.3	ADR	33.9	-29.9	.18	34.48	54	-19.52	-	-	-	-	81	183	V
* 12.183	33.75	PK-U	38.8	-22.7	0	49.85	-	-	74	-24.15	-	-	60	107	H
* 12.185	22.66	ADR	38.8	-22.6	.18	39.04	54	-14.96	-	-	-	-	60	107	H
* 10.819	34.35	PK-U	37.8	-22.1	0	50.05	-	-	74	-23.95	-	-	39	235	V
* 10.818	23.09	ADR	37.8	-22.1	.18	38.97	54	-15.03	-	-	-	-	39	235	V
2	46.69	PK-U	31.1	-34.4	0	43.39	-	-	-	-	68.2	-24.81	5	193	V
2	38.56	ADR	31.1	-34.4	.18	35.44	-	-	-	-	-	-	5	193	V
6.514	37.57	PK-U	35.5	-26.3	0	46.77	-	-	-	-	68.2	-21.43	135	144	H
6.514	26.41	ADR	35.5	-26.3	.18	35.79	-	-	-	-	-	-	135	144	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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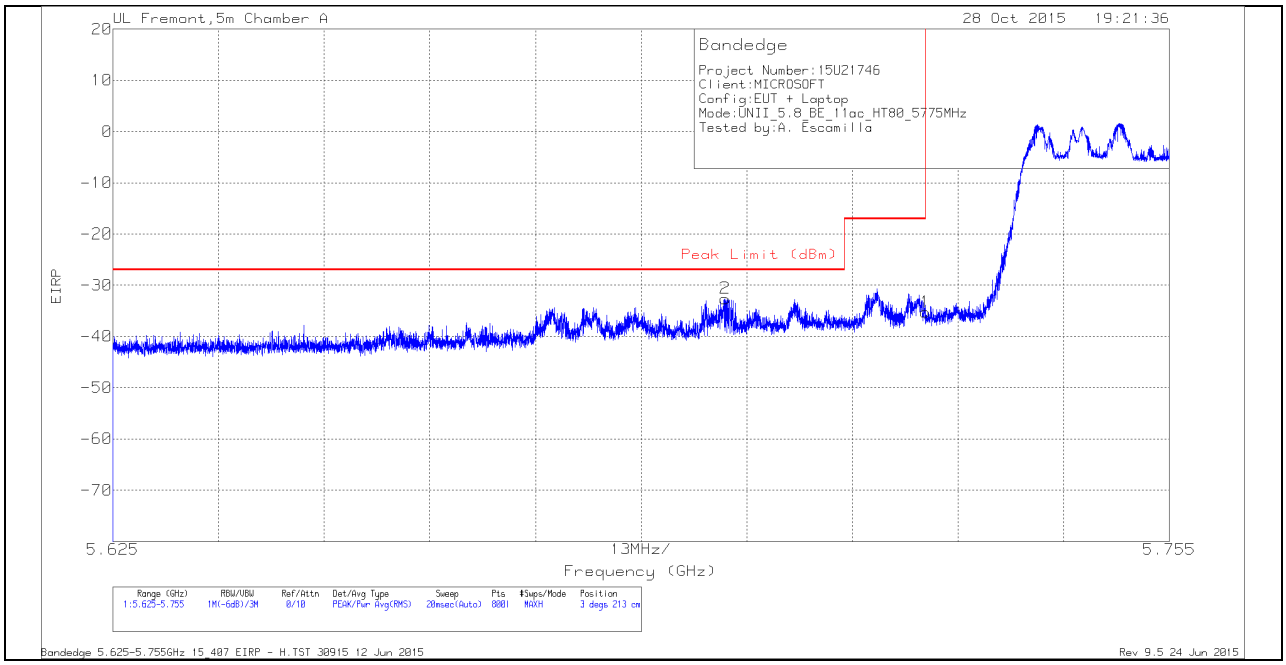
9.4.4. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.8 GHz BAND RESTRICTED BANDEDGE (LOWER EDGE)

HORIZONTAL PEAK PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.7	-59.19	Pk	34.7	-19.9	11.8	-32.59	-27	-5.59	3	213	H
1	5.725	-61.98	Pk	34.7	-19.8	11.8	-35.28	-17	-18.28	3	213	H

Pk - Peak detector

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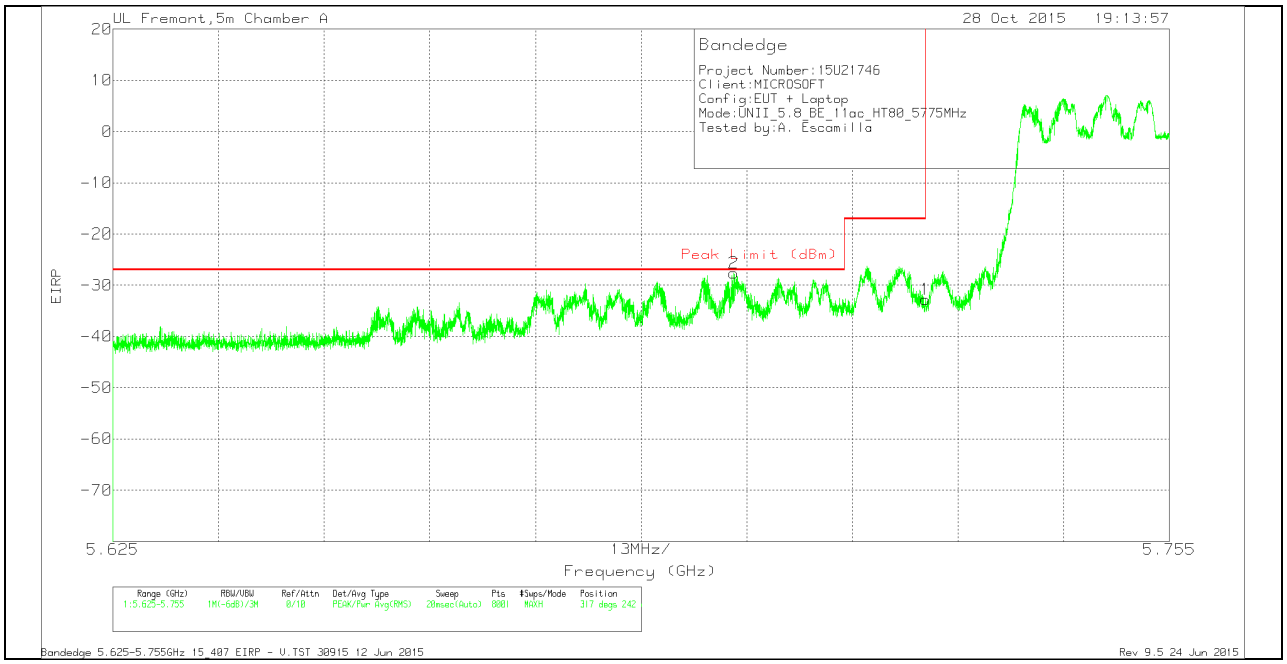
VERTICAL PEAK PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.701	-54.22	Pk	34.7	-19.9	11.8	-27.62	-27	-.62	317	242	V
1	5.725	-59.42	Pk	34.7	-19.8	11.8	-32.72	-17	-15.72	317	242	V

Pk - Peak detector

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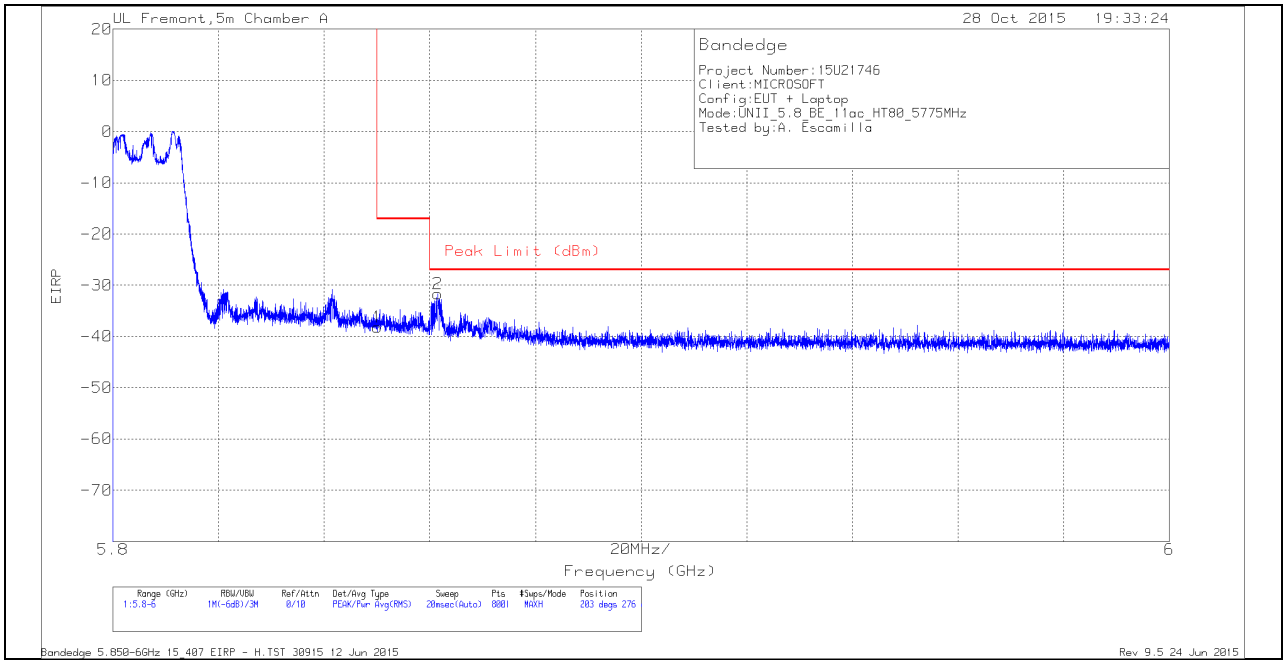
AUTHORIZED BANDEDGE (HIGHER EDGE)

HORIZONTAL PEAK PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-65.77	Pk	35.1	-19.3	11.8	-38.17	-17	-21.17	203	276	H
2	5.861	-59.13	Pk	35.1	-19.4	11.8	-31.63	-27	-4.63	203	276	H

Pk - Peak detector

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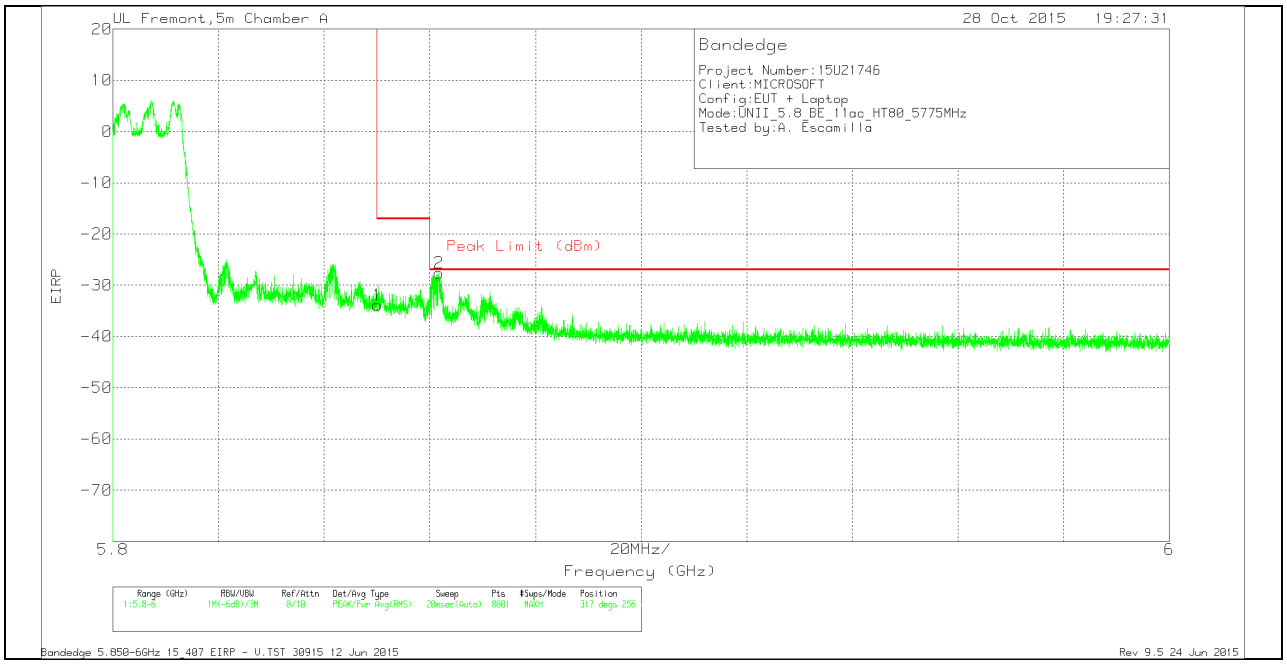
VERTICAL PEAK PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-61.52	Pk	35.1	-19.3	11.8	-33.92	-17	-16.92	317	256	V
2	5.862	-55.12	Pk	35.1	-19.4	11.8	-27.62	-27	-.62	317	256	V

Pk - Peak detector

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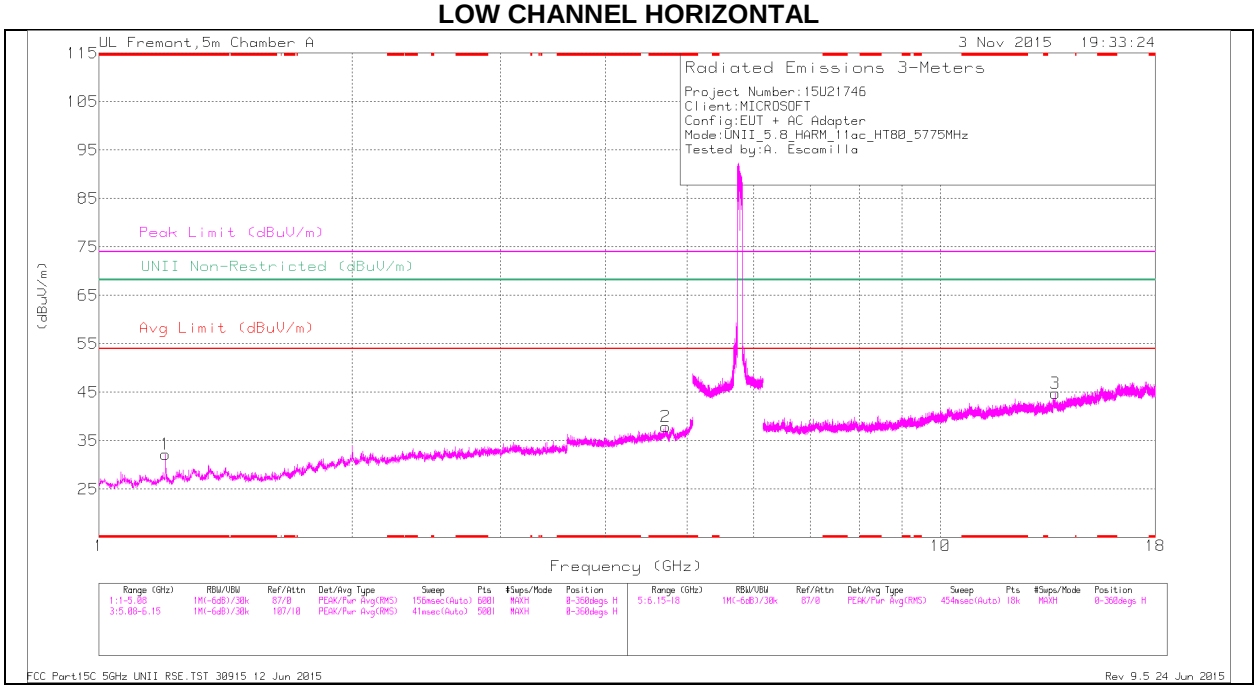
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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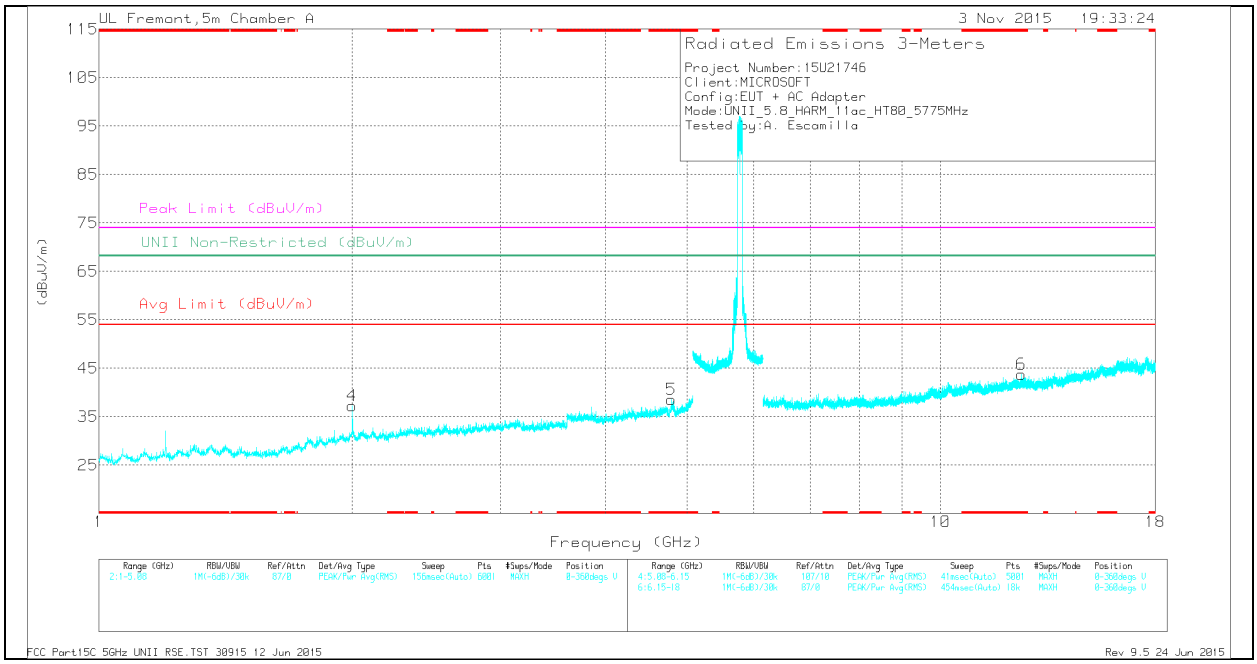
LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 1.2	40.25	Pk	28	-36	0	32.25	-	-	74	-41.75	68.2	-35.95	0-360	100	H
2	* 4.716	34.21	Pk	34.1	-30.4	0	37.91	-	-	74	-36.09	68.2	-30.29	0-360	201	H
5	* 4.788	34.56	Pk	34	-30	0	38.56	-	-	74	-35.44	68.2	-29.64	0-360	200	V
6	* 12.482	27.01	Pk	39.1	-22.4	0	43.71	-	-	74	-30.29	68.2	-24.49	0-360	100	V
4	2	40.56	Pk	31.1	-34.4	0	37.26	-	-	74	-36.74	68.2	-30.94	0-360	200	V
3	13.686	28.44	Pk	38.8	-22.5	0	44.74	-	-	74	-29.26	68.2	-23.46	0-360	201	H

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 1.2	47.07	PK-U	28	-36	0	39.07	-	-	74	-34.93	-	-	164	109	H
* 1.2	39.1	ADR	28	-36	.21	31.31	54	-22.68	-	-	-	-	164	109	H
* 4.717	41.68	PK-U	34.1	-30.4	0	45.38	-	-	74	-28.62	-	-	231	160	H
* 4.717	30.34	ADR	34.1	-30.4	.21	34.25	54	-19.75	-	-	-	-	231	160	H
* 4.788	41.28	PK-U	34	-30	0	45.28	-	-	74	-28.72	-	-	53	198	V
* 4.79	30.1	ADR	34	-30	.21	34.31	54	-19.69	-	-	-	-	53	198	V
* 12.483	34.13	PK-U	39.1	-22.4	0	50.83	-	-	74	-23.17	-	-	15	209	V
* 12.484	22.79	ADR	39.1	-22.3	.21	39.80	54	-14.20	-	-	-	-	15	209	V
2	46.41	PK-U	31.1	-34.4	0	43.11	-	-	-	-	68.2	-25.09	2	189	V
2	38.05	ADR	31.1	-34.4	.21	34.96	-	-	-	-	-	-	2	189	V
13.684	34.89	PK-U	38.8	-22.5	0	51.19	-	-	-	-	68.2	-17.01	142	228	H
13.684	23.97	ADR	38.8	-22.5	.21	40.48	-	-	-	-	-	-	142	228	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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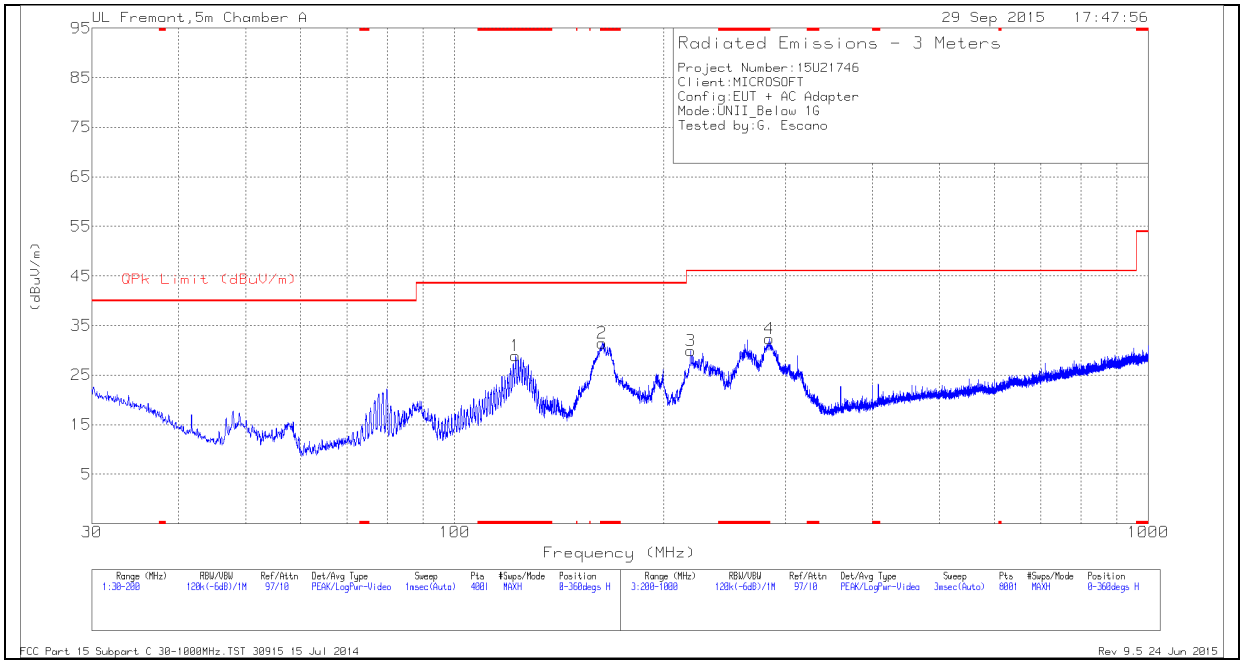
9.4.5. WORST-CASE BELOW 1 GHz (in the 5.3 GHz Band)

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



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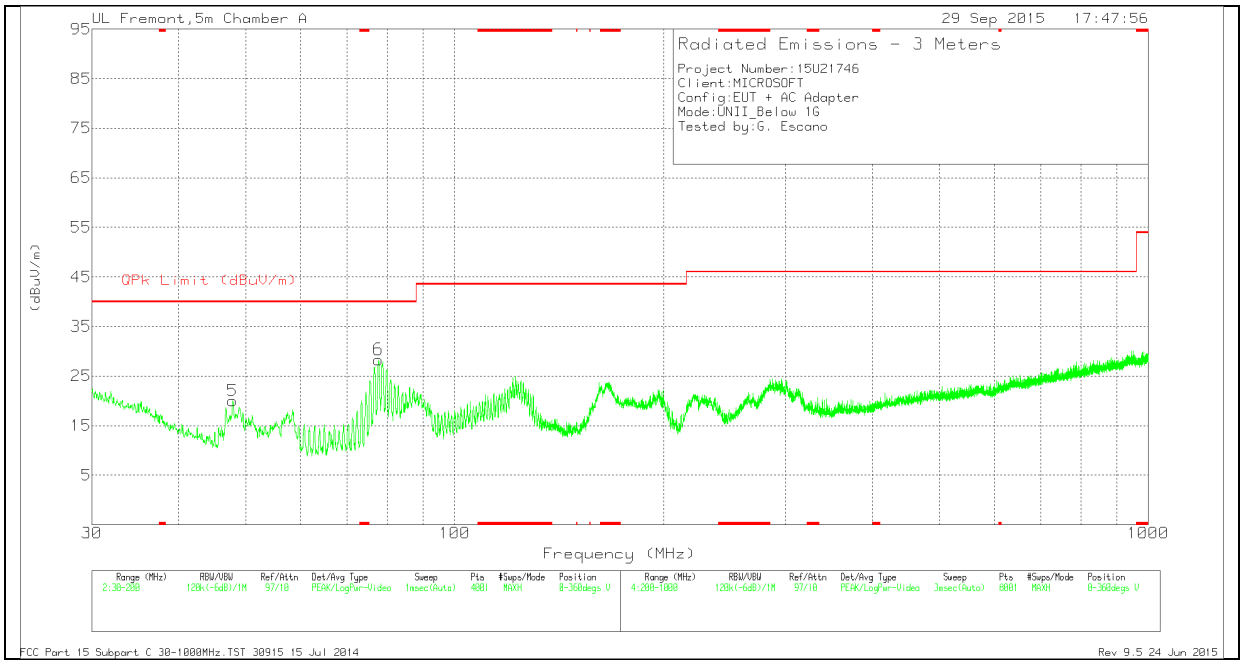
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)



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Below 1G Data

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T477 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 122.4375	41.61	Pk	17.7	-30.4	28.91	43.52	-14.61	0-360	199	H
2	* 163.3225	45.41	Pk	16.1	-30.1	31.41	43.52	-12.11	0-360	100	H
4	* 284	44.38	Pk	17.3	-29.4	32.28	46.02	-13.74	0-360	101	H
5	47.8925	38.37	Pk	12.7	-31.1	19.97	40	-20.03	0-360	101	V
6	77.685	47.43	Pk	11.6	-30.7	28.33	40	-11.67	0-360	101	V
3	219	45.08	Pk	14.6	-29.8	29.88	46.02	-16.14	0-360	101	H

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

Pk - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	AF T477 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 122.363	35.2	Qp	17.7	-30.4	22.5	43.52	-21.02	146	208	H
* 163.4915	36.88	Qp	16.1	-30.1	22.88	43.52	-20.64	86	134	H
* 283.9213	38.49	Qp	17.3	-29.4	26.39	46.02	-19.63	120	106	H
47.8791	35.04	Qp	12.7	-31.1	16.64	40	-23.36	269	127	V
77.5808	40.78	Qp	11.6	-30.8	21.58	40	-18.42	133	156	V
219.0418	36.75	Qp	14.6	-29.8	21.55	46.02	-24.47	87	132	H

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

Qp - Quasi-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 (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 C63.10.

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.

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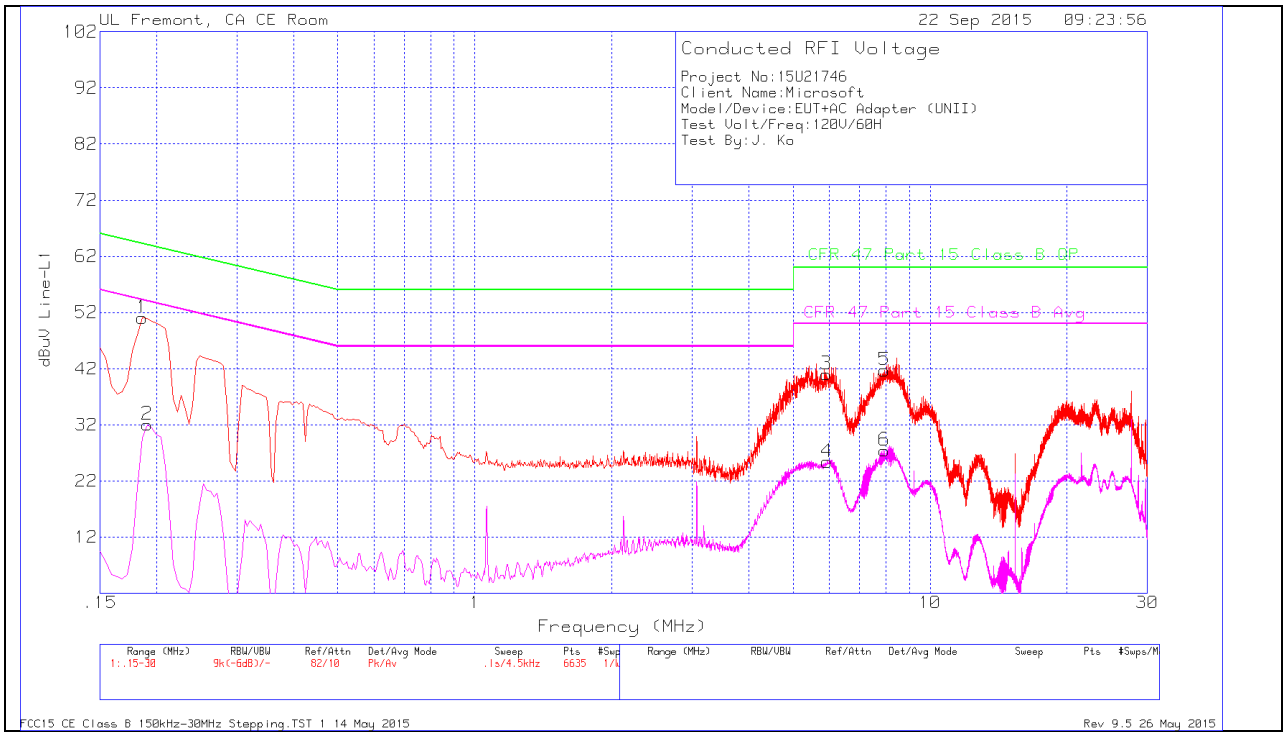
RESULTS

6 WORST EMISSIONS

LINE 1 PLOT



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LINE 1 RESULTS

Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1	LC Cables 1&3	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	Margin (dB)	CFR 47 Part 15 Class B Avg	Margin (dB)
1	.186	50.03	Pk	1	0	51.03	64.21	-13.18		
2	.1905	31.04	Av	1	0	32.04	-	-	54.01	-21.97
3	5.9145	40.71	Pk	.2	.1	41.01	60	-18.99		
4	5.9325	25.1	Av	.2	.1	25.4	-	-	50	-24.6
5	7.9485	41.43	Pk	.2	.1	41.73	60	-18.27		
6	7.944	27.13	Av	.2	.1	27.43	-	-	50	-22.57

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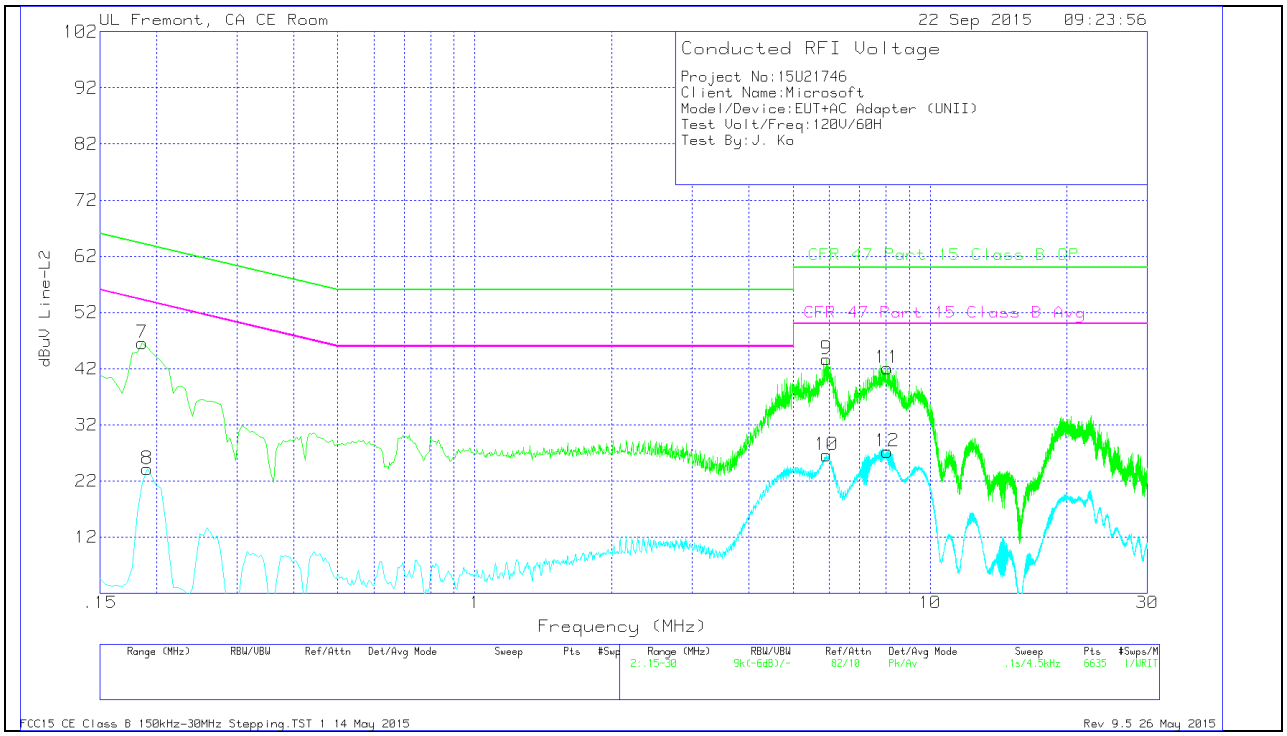
LINE 2 PLOT



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LINE 2 RESULTS

Range 2: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2	LC Cables 2&3	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	Margin (dB)	CFR 47 Part 15 Class B Avg	Margin (dB)
7	.186	45.45	Pk	1.1	0	46.55	64.21	-17.66		
8	.1905	23.02	Av	1.1	0	24.12	-	-	54.01	-29.89
9	5.9235	43.39	Pk	.2	.1	43.69	60	-16.31		
10	5.9235	26.31	Av	.2	.1	26.61	-	-	50	-23.39
11	8.061	41.79	Pk	.2	.1	42.09	60	-17.91		
12	8.061	26.95	Av	.2	.1	27.25	-	-	50	-22.75

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11. DYNAMIC FREQUENCY SELECTION

11.1. OVERVIEW

11.1.1. LIMITS

INDUSTRY CANADA

IC RSS-247 is closely harmonized with FCC Part 15 DFS rules. The deviations are as follows:

RSS-247 Issue 1

Note: For the band 5600–5650 MHz, no operation is permitted.

Until further notice, devices subject to this annex shall not be capable of transmitting in the band 5600–5650 MHz. This restriction is for the protection of Environment Canada weather radars operating in this band.

FCC

§15.407 (h), FCC KDB 905462 D02 “COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVICES 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”.

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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
U-NII Detection Bandwidth	Yes	Not required	Yes

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
U-NII Detection Bandwidth	Yes	Not required	Yes

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar DFS	Client (without DFS)
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in all 20 MHz channel blocks and a null frequency between the bonded 20 MHz channel blocks.		

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

Maximum Transmit Power	Value (see notes)
E.I.R.P. ≥ 200 mill watt	-64 dBm
E.I.R.P. < 200 mill watt and power spectral density < 10 dBm/MHz	-62 dBm
E.I.R.P. < 200 mill watt that do not meet power spectral density requirement	-64 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.
Note 3: E.I.R.P. is based on the highest antenna gain. For MIMO devices refer to KDB publication 662911 D01.

Table 4: DFS Response requirement values

Parameter	Value
Non-occupancy period	30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds (See Note 1)
Channel Closing Transmission Time	200 milliseconds + approx. 60 milliseconds over remaining 10 second period. (See Notes 1 and 2)
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. (See Note 3)

Note 1: *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
Note 2: 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 a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
Note 3: During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

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Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (usec)	PRI (usec)	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	Roundup: {(1/360) x (19 x 10^6 PRI_{usec})}	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 usec. With a minimum increment of 1 usec, excluding PRI values selected in Test A			
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 Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Table 7 – Frequency Hopping Radar Test Signal

Radar Waveform Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	0.333	300	70%	30

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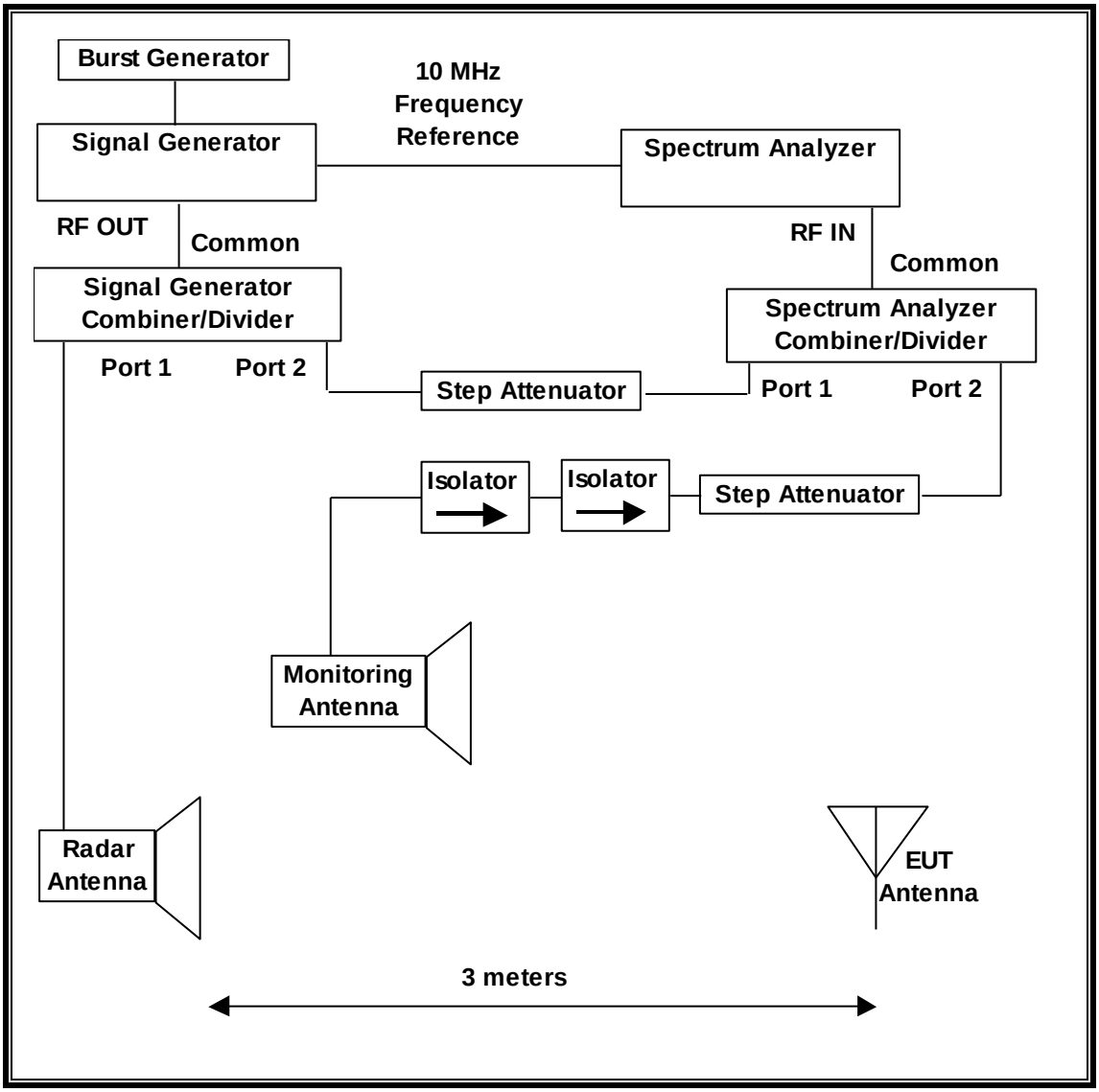
11.1.2. TEST AND MEASUREMENT SYSTEM

RADIATED METHOD SYSTEM BLOCK DIAGRAM



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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 1, 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.

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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**	**Serial Number**	**Cal Due**
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	US51350187	06/01/16
Signal Generator, MXG X-Series RF Vector	Agilent	N5172B	MY51350337	02/17/16

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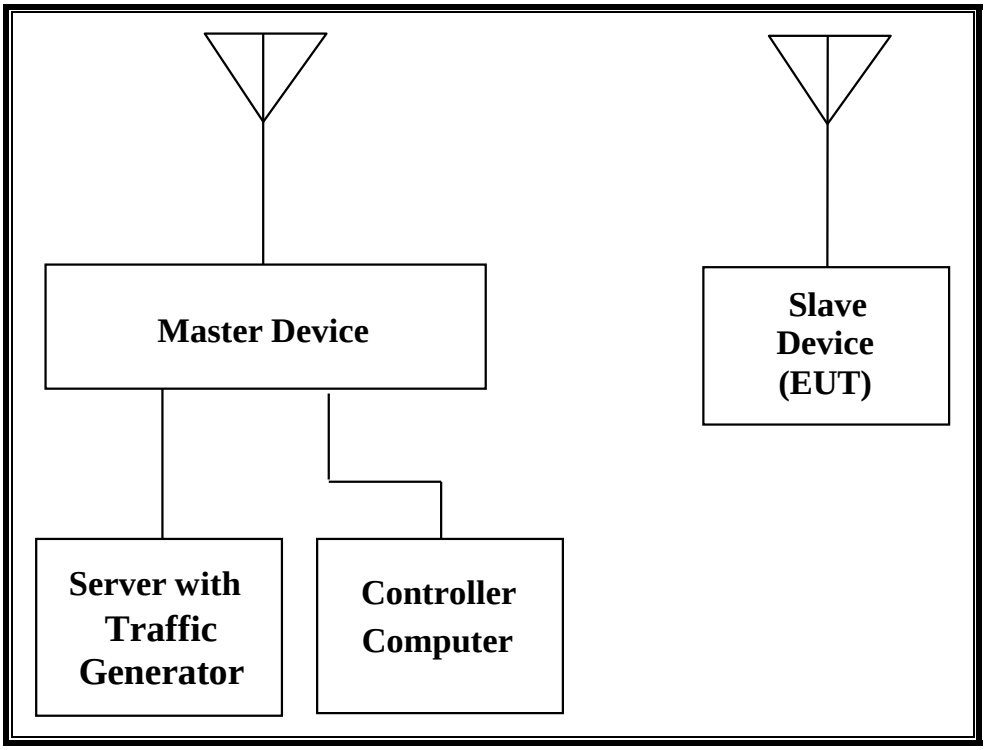
11.1.3. SETUP OF EUT

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**
802.11ac Dual Band Wireless Access Point (Master Device)	Cisco	AIR-CAP3702E-A-K9	FTX181570A6	LDK102087
P.O.E. Injector	Phihong	POE30U-560(G)	PHI170102N2	DoC
Notebook PC (Server)	Lenovo	Type 2356-JY4	PK-0P05G 13/08	DoC
AC Adapter (Server PC)	Lenovo	ADLX90NCT2A	11S45N0311Z1Z17532J6D	DoC
Notebook PC (Controller)	Lenovo	Type 4236-B92	PB-HEX04 12/05	DoC
AC Adapter (Controller PC)	Lenovo	42T4418	11S42T4418Z1ZGWG08R 90M	DoC

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11.1.4. DESCRIPTION OF EUT

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

For IC the EUT operates over the 5250-5350 MHz and 5470-5725 MHz ranges, excluding the 5600-5650 MHz range.

The EUT is a Slave Device without Radar Detection.

The highest power level within these bands is 26.22dBm EIRP in the 5250-5350 MHz band and 25.91dBm EIRP in the 5470-5725 MHz band.

The only antenna assembly utilized with the EUT has a gain of 3.6dBi Chain 0 and 5.8dBi Chain 1.

Two antennas are utilized to meet the diversity and MIMO operational requirements.

The rated output power of the Master unit is > 23dBm (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 two transmitter/receiver chains, each connected to an antenna to perform radiated tests.

WLAN traffic is generated by transferring a file from the Master to the Slave.

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

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

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UNIFORM CHANNEL SPREADING

This is requirement not applicable to Slave Devices.

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

The Master Device is a Cisco Access Point, FCC ID: LDK102087. The minimum antenna gain for the Master Device is 6 dBi.

The rated output power of the Master unit is > 23dBm (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.

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11.2. RESULTS FOR 20 MHz BANDWIDTH

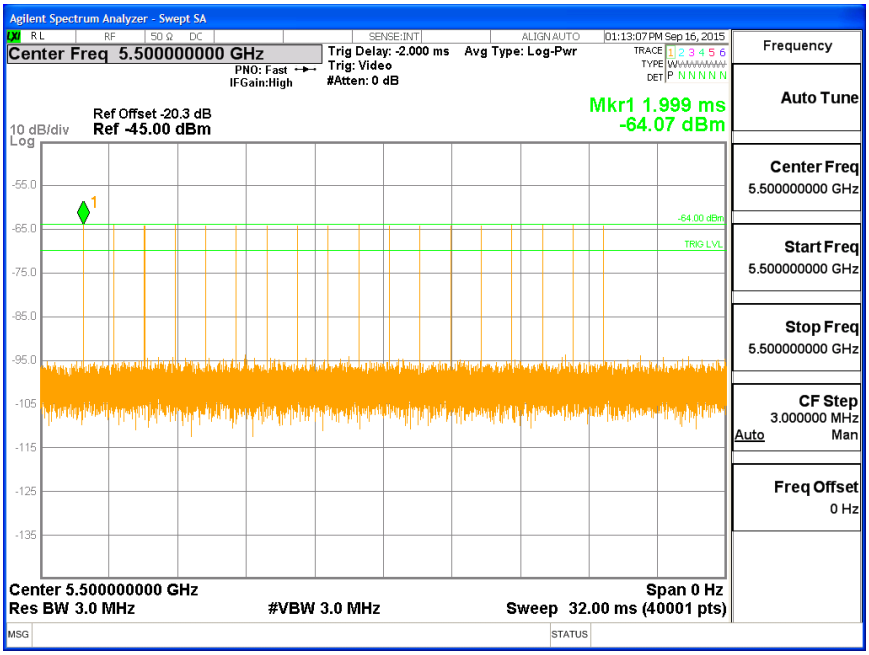
11.2.1. TEST CHANNEL

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

11.2.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM

SHORT PULSE RADAR TYPE 0 AT MASTER



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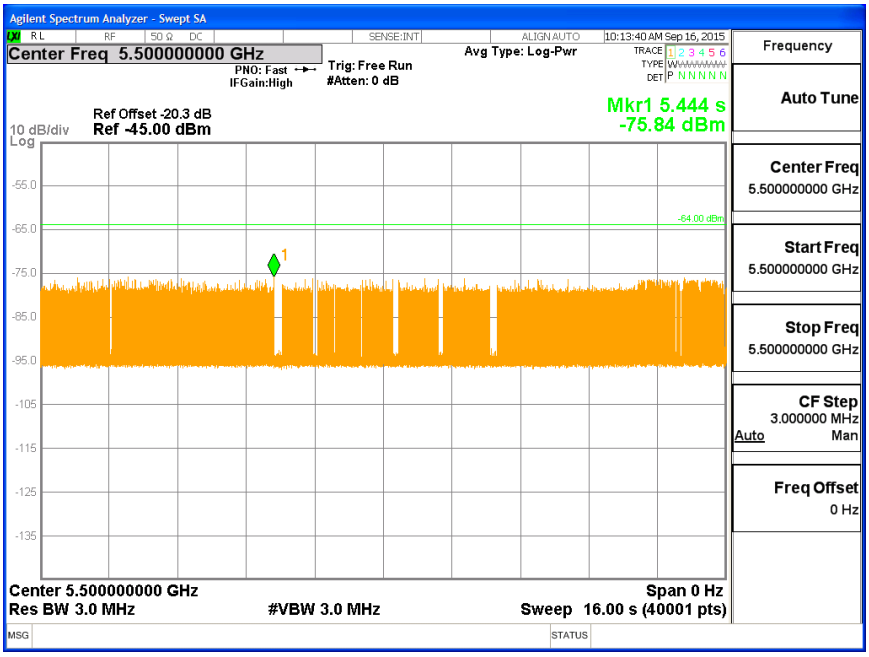
TRAFFIC

SLAVE TRAFFIC



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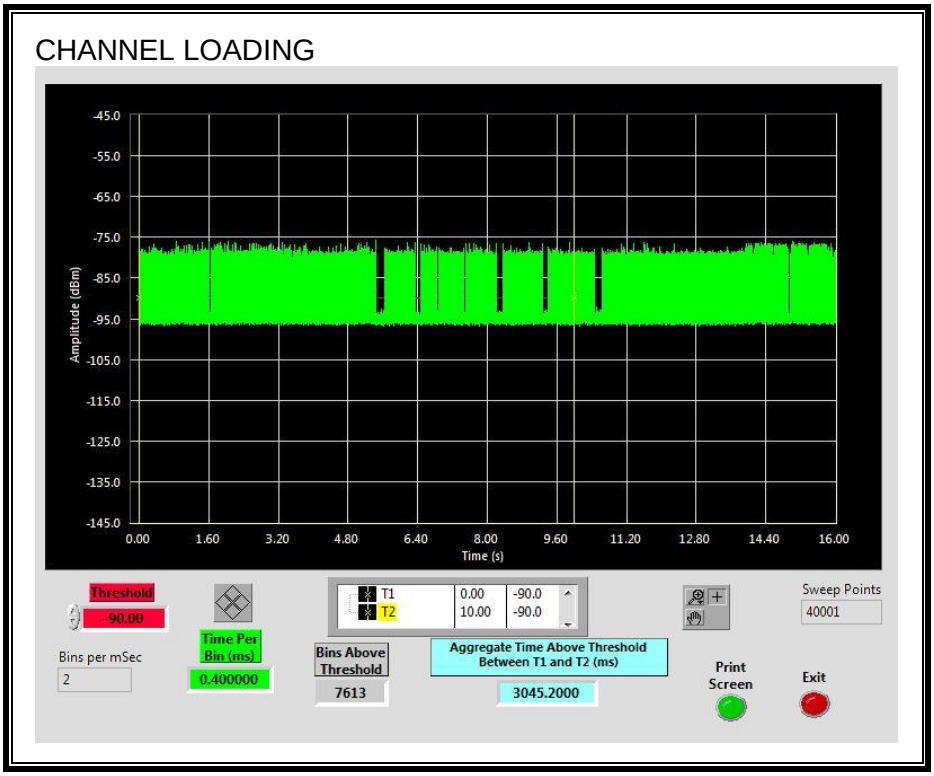
CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 30.45%

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11.2.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.2.4. 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)
0.5796	10

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

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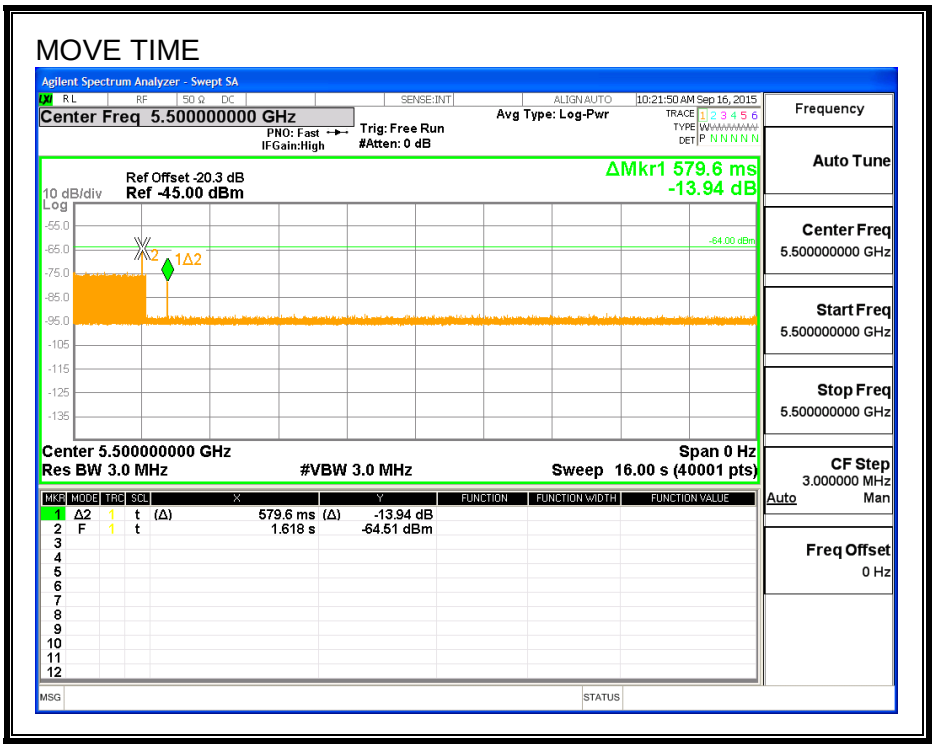
MOVE TIME



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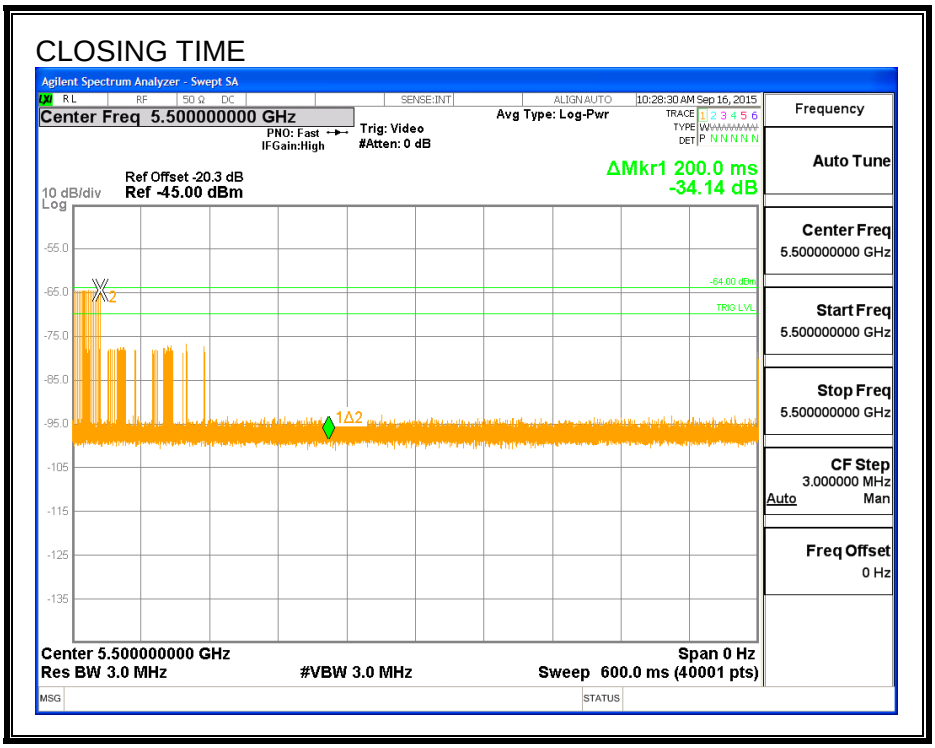
CHANNEL CLOSING TIME



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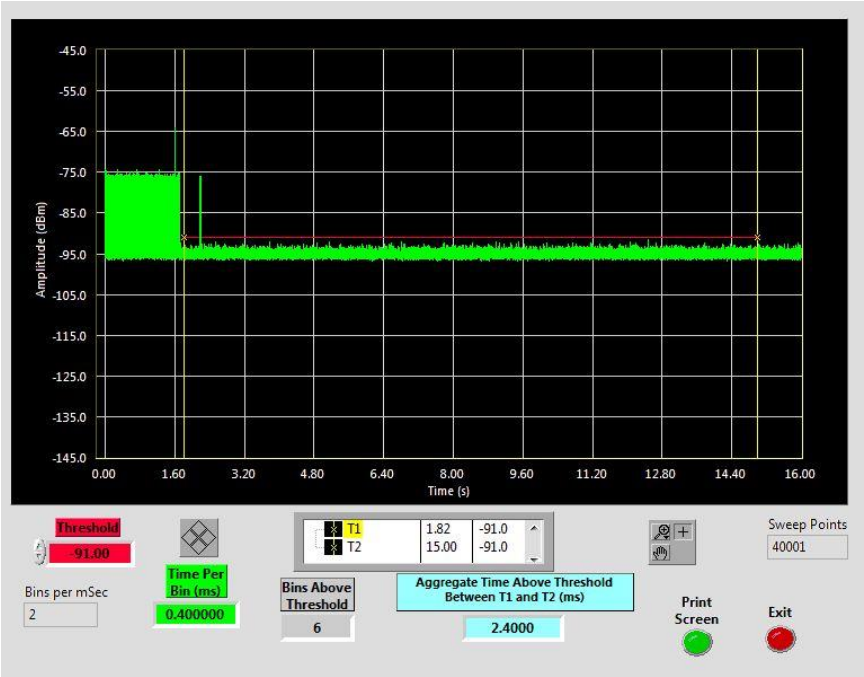
AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.

AGGREGATE CLOSING TIME



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11.3. RESULTS FOR 40 MHz BANDWIDTH

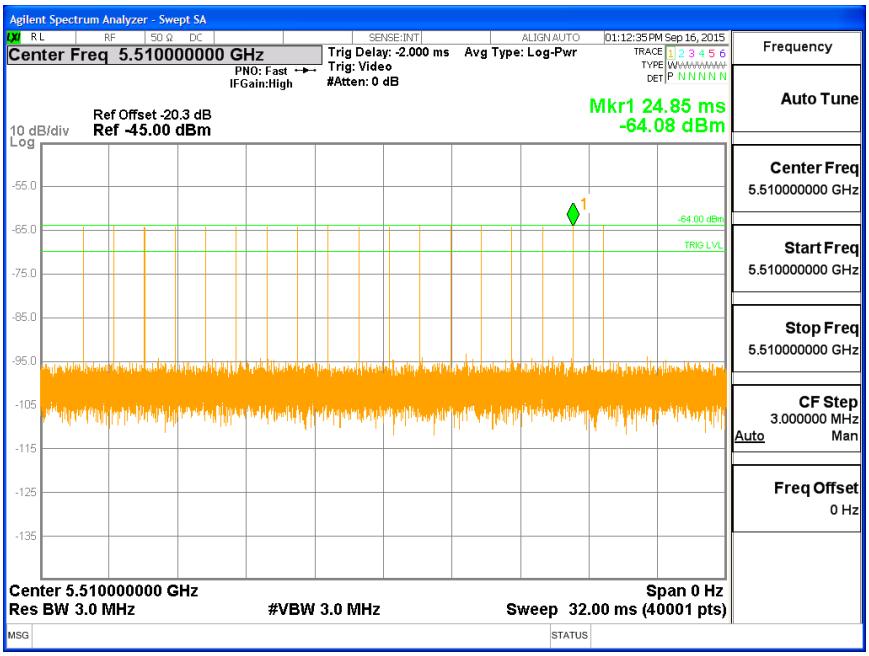
11.3.1. TEST CHANNEL

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

11.3.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM

SHORT PULSE RADAR TYPE 0 AT MASTER



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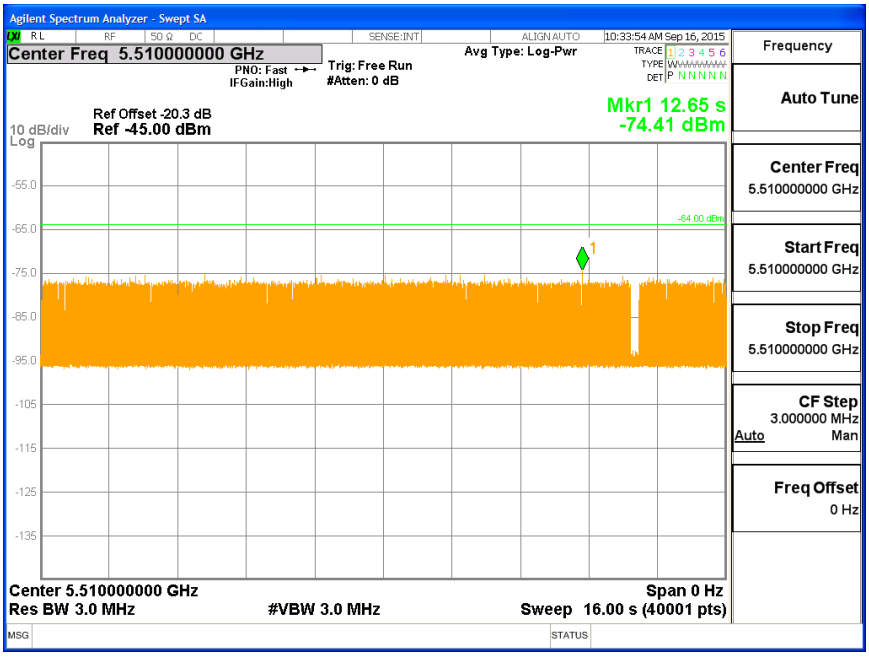
TRAFFIC

SLAVE TRAFFIC



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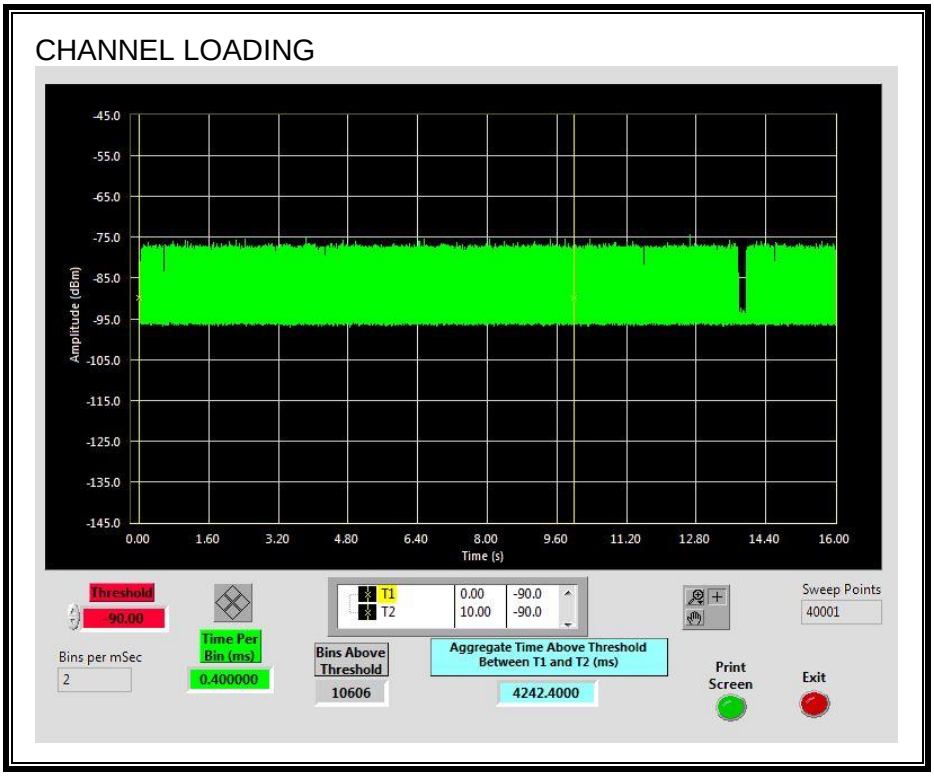
CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 42.42%

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11.3.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.3.4. 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)
0.0944	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
0.0	60

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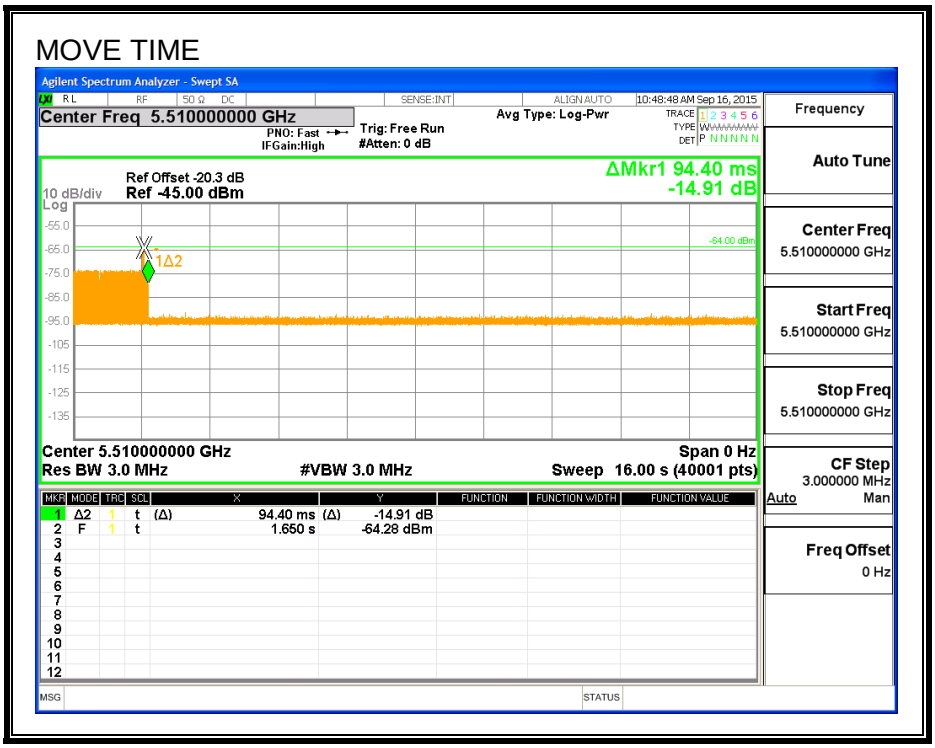
MOVE TIME



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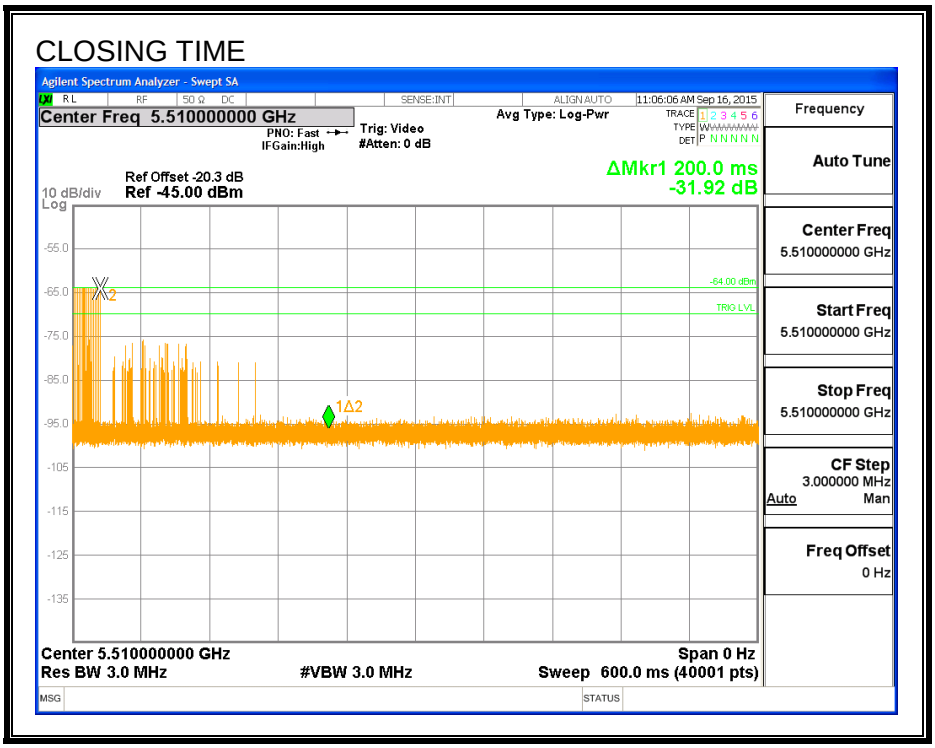
CHANNEL CLOSING TIME



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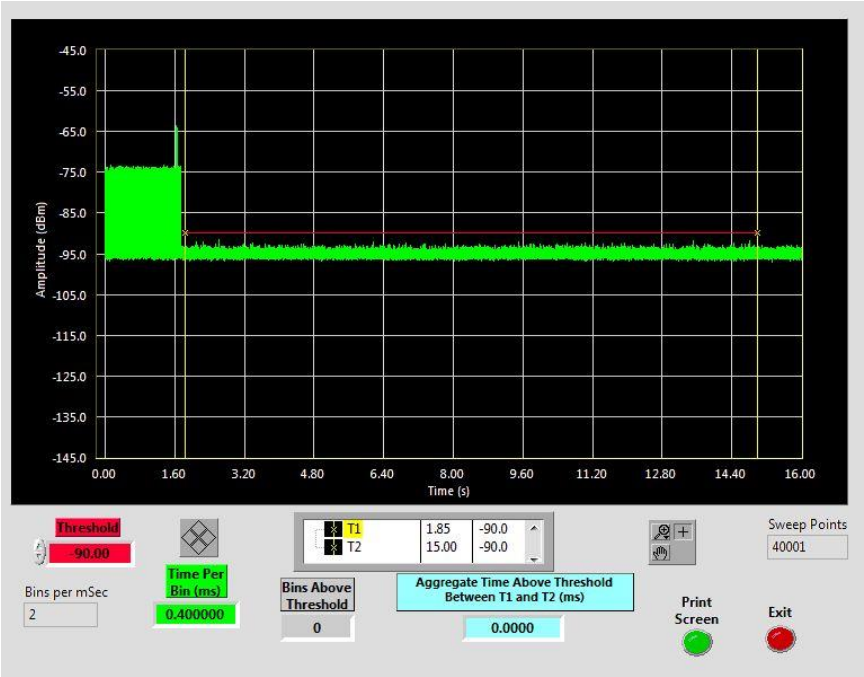
AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.

AGGREGATE CLOSING TIME



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11.4. RESULTS FOR 80 MHz BANDWIDTH

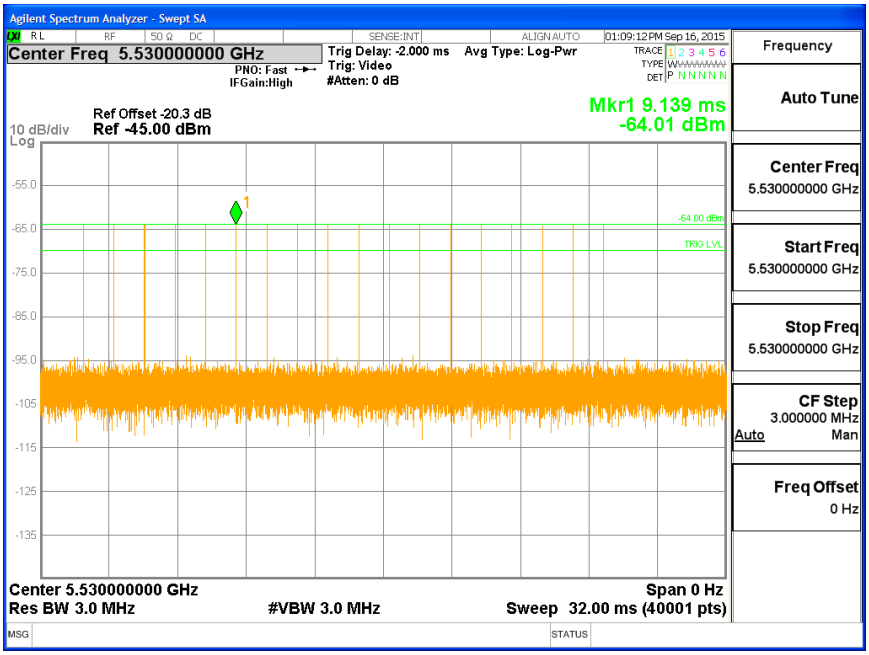
11.4.1. TEST CHANNEL

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

11.4.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM

SHORT PULSE RADAR TYPE 0 AT MASTER



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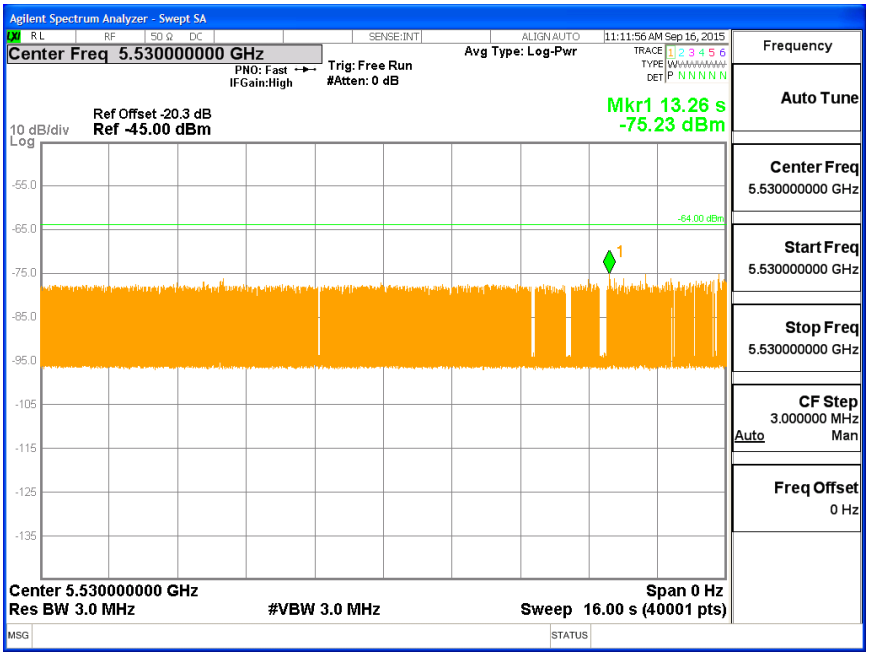
TRAFFIC

SLAVE TRAFFIC



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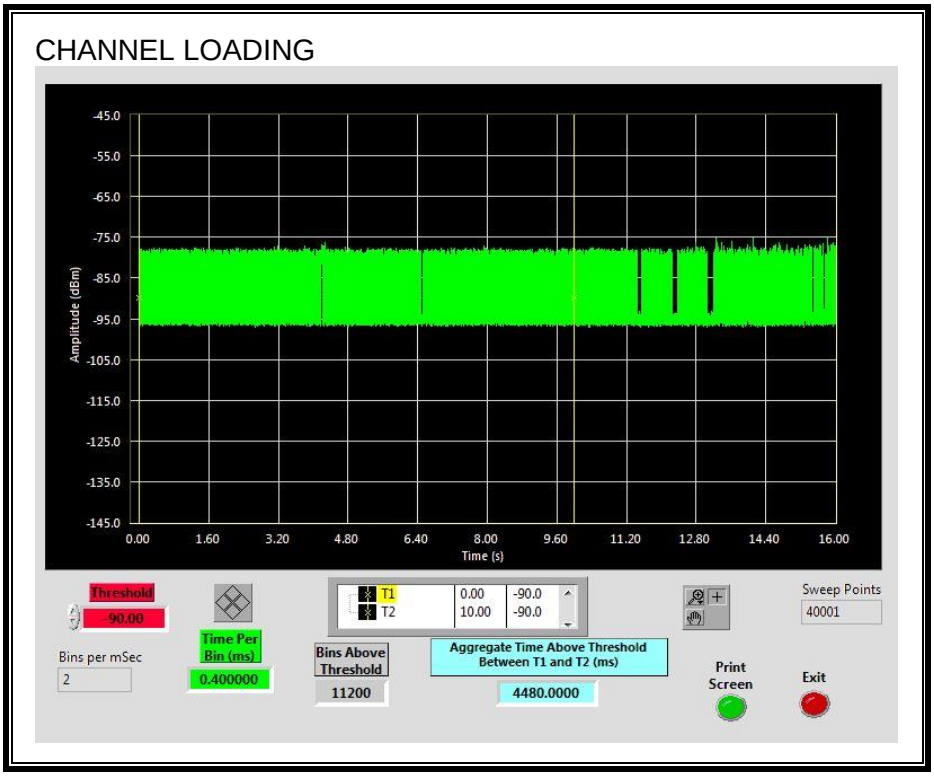
CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 44.8%

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11.4.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.4.4. 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)
0.1463	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
0.0	60

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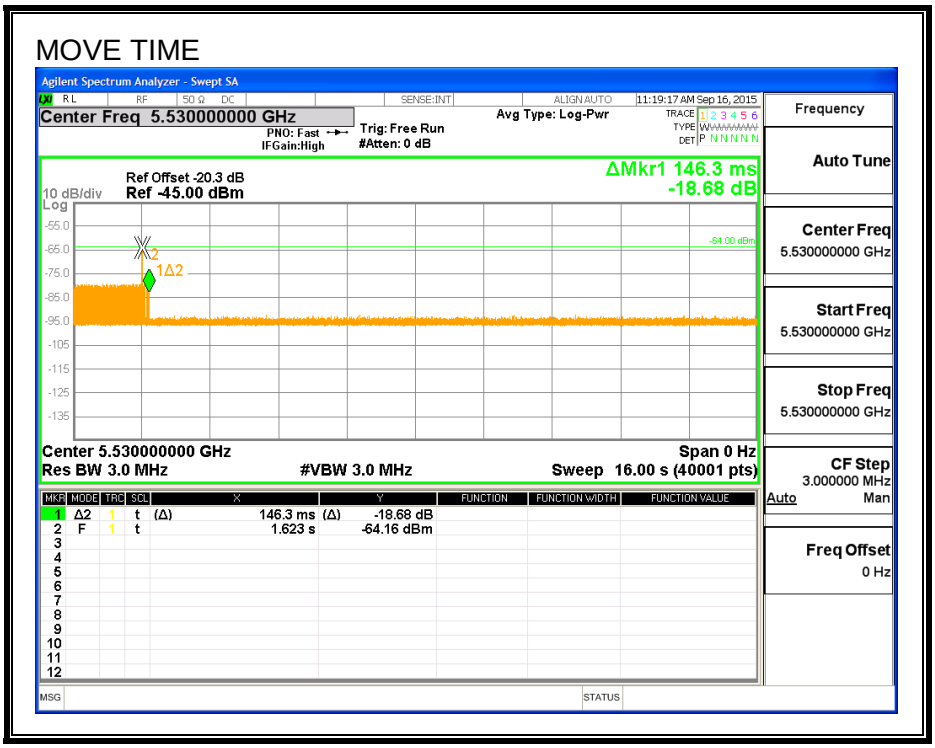
MOVE TIME



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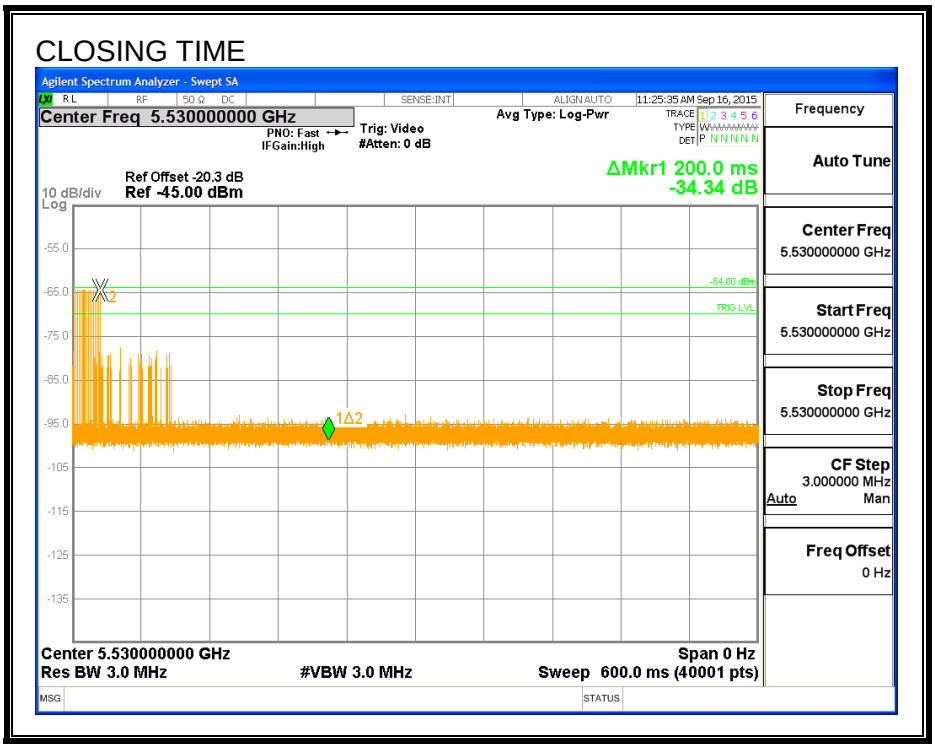
CHANNEL CLOSING TIME



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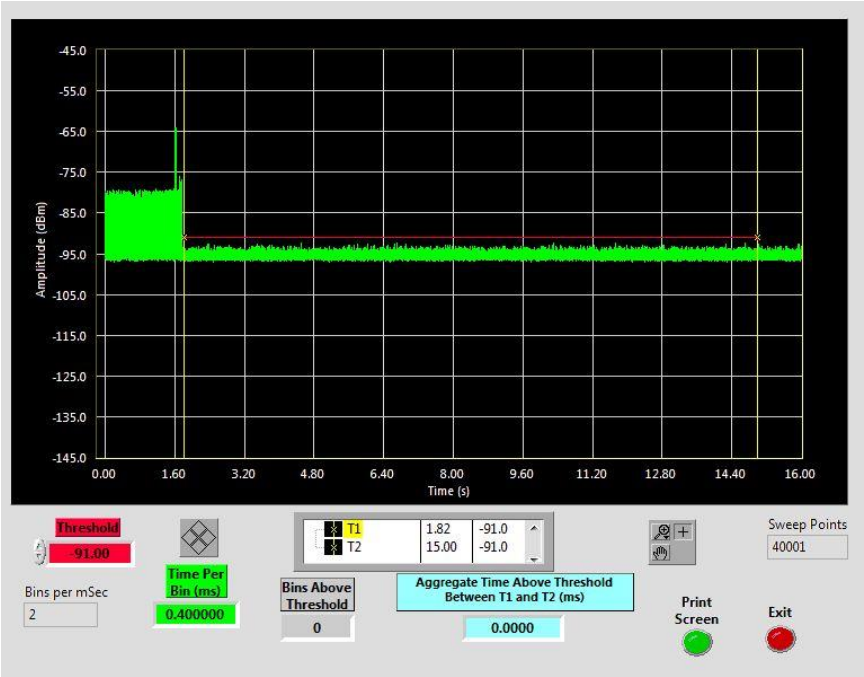
AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.

AGGREGATE CLOSING TIME



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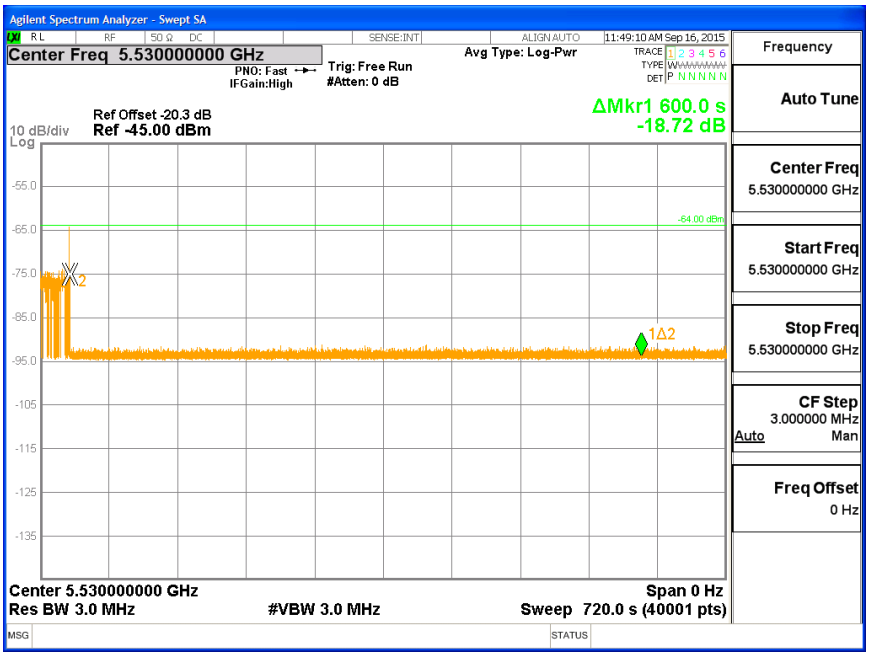
11.4.5.10-MINUTE BEACON MONITORING PERIOD

RESULTS

No EUT transmissions were observed on the test channel during the 10-minute observation time.

10-MINUTE BEACON MONITORING PERIOD



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