

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.506	47.5	PK	32.8	-31.7	0	48.6	-	-	74	-25.4	-	-	0-360	201	V
2	* 3.507	46.63	PK	32.8	-31.7	0	47.73	-	-	74	-26.27	-	-	0-360	201	H
3	7.851	32.48	PK	35.7	-26.4	0	41.78	-	-	-	-	68.2	-26.42	0-360	201	H
4	7.873	36.56	PK	35.7	-26.9	0	45.36	-	-	-	-	68.2	-22.84	0-360	201	H
5	7.92	34.54	PK	35.7	-27.2	0	43.04	-	-	-	-	68.2	-25.16	0-360	201	V
6	7.923	33.01	PK	35.7	-27.1	0	41.61	-	-	-	-	68.2	-26.59	0-360	201	H

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

PK - Peak detector

Radiated Emissions

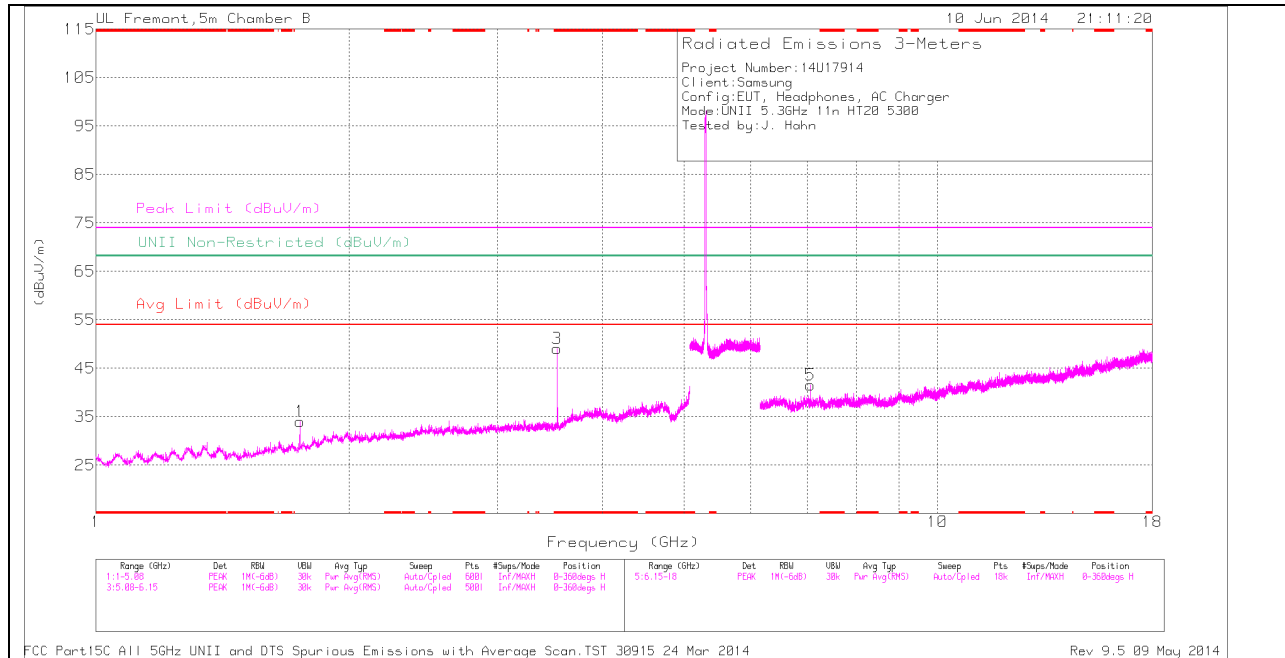
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.507	51.79	PK1	32.8	-31.7	0	52.89	-	-	74	-21.11	-	-	329	259	H
* 3.507	49.52	AD1	32.8	-31.7	.6	51.22	54	-2.78	-	-	-	-	329	259	H
* 3.507	51.03	PK1	32.8	-31.7	0	52.13	-	-	74	-21.87	-	-	88	238	V
* 3.507	48.56	AD1	32.8	-31.7	.6	50.26	54	-3.74	-	-	-	-	88	238	V

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

PK1 - KDB789033 Method: Peak

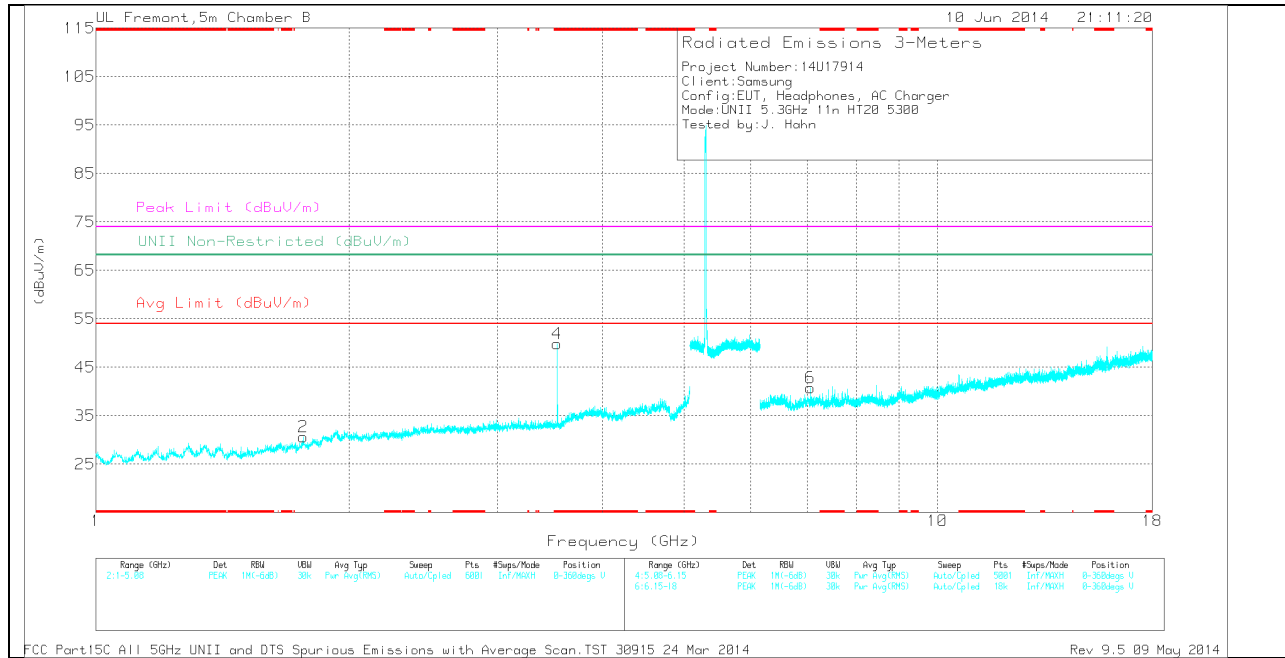
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL



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

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.

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 3.534	48.02	PK	32.9	-31.9	0	49.02	-	-	74	-24.98	-	-	0-360	201	H
4	* 3.534	48.82	PK	32.9	-31.9	0	49.82	-	-	74	-24.18	-	-	0-360	201	V
1	1.748	38.35	PK	29.6	-33.9	0	34.05	-	-	-	-	68.2	-34.15	0-360	201	H
2	1.763	34.85	PK	29.8	-34	0	30.65	-	-	-	-	68.2	-37.55	0-360	201	V
5	7.067	34.18	PK	35.6	-28.2	0	41.58	-	-	-	-	68.2	-26.62	0-360	200	H
6	7.067	33.33	PK	35.6	-28.2	0	40.73	-	-	-	-	68.2	-27.47	0-360	201	V

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

PK - Peak detector

Radiated Emissions

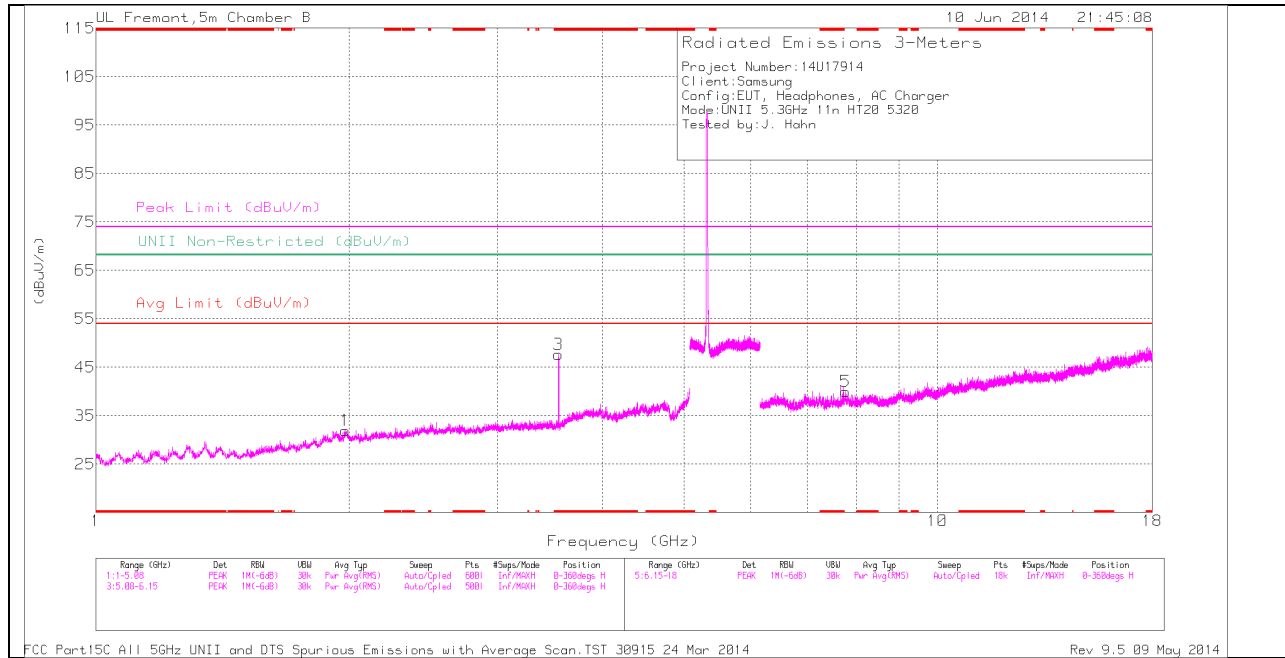
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.533	52.32	PK1	32.9	-31.9	0	53.32	-	-	74	-20.68	-	-	37	314	H
* 3.533	50.16	AD1	32.9	-31.9	.6	51.76	54	-2.24	-	-	-	-	37	314	H
* 3.533	52.05	PK1	32.9	-31.9	0	53.05	-	-	74	-20.95	-	-	115	317	V
* 3.533	49.73	AD1	32.9	-31.9	.6	51.33	54	-2.67	-	-	-	-	115	317	V

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

PK1 - KDB789033 Method: Peak

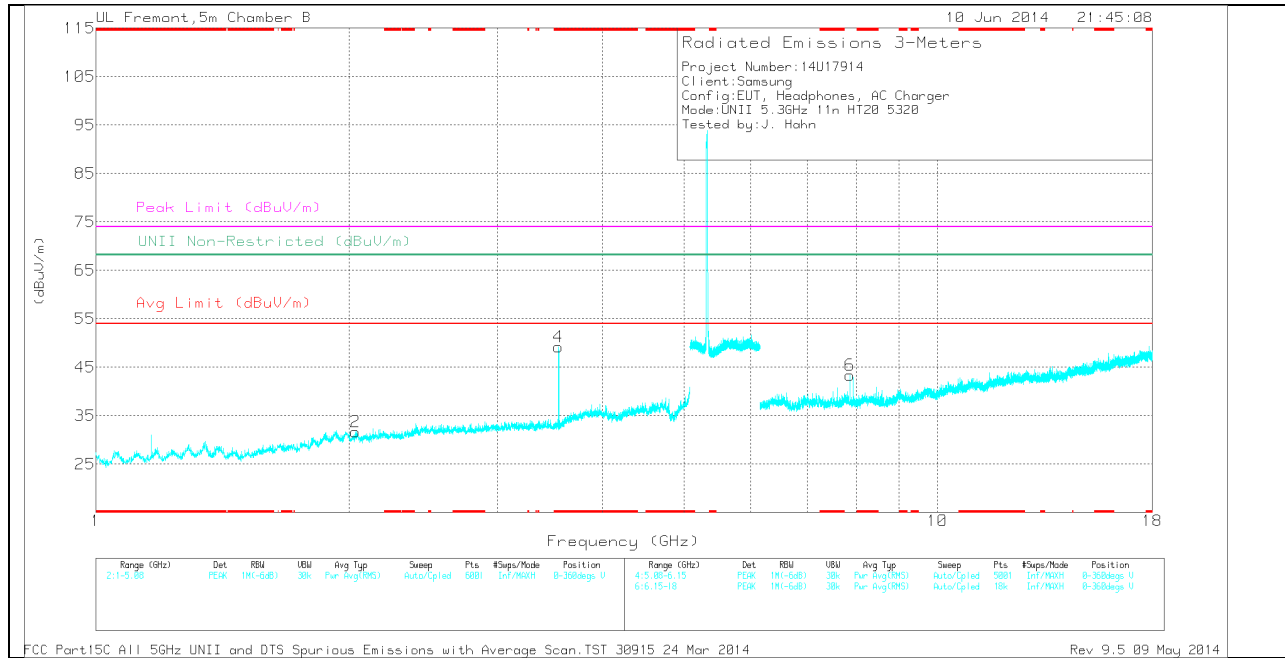
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL



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

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.

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 3.547	46.55	PK	33	-31.9	0	47.65	-	-	74	-26.35	-	-	0-360	100	H
4	* 3.547	48.05	PK	33	-31.9	0	49.15	-	-	74	-24.85	-	-	0-360	201	V
1	1.98	33.4	PK	31.3	-32.8	0	31.9	-	-	-	-	68.2	-36.3	0-360	201	H
2	2.033	33.93	PK	31.3	-33.5	0	31.73	-	-	-	-	68.2	-36.47	0-360	100	V
5	7.771	30.61	PK	35.7	-26.3	0	40.01	-	-	-	-	68.2	-28.19	0-360	201	H
6	7.866	34.43	PK	35.7	-26.8	0	43.33	-	-	-	-	68.2	-24.87	0-360	201	V

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.547	51.82	PK1	33	-31.9	0	52.92	-	-	74	-21.08	-	-	36	316	H
* 3.547	49.62	AD1	33	-31.9	0.6	50.72	54	-3.28	-	-	-	-	36	316	H
* 3.547	51.85	PK1	33	-31.9	0	52.95	-	-	74	-21.05	-	-	115	372	V
* 3.547	49.76	AD1	33	-31.9	0.6	50.86	54	-3.14	-	-	-	-	115	372	V

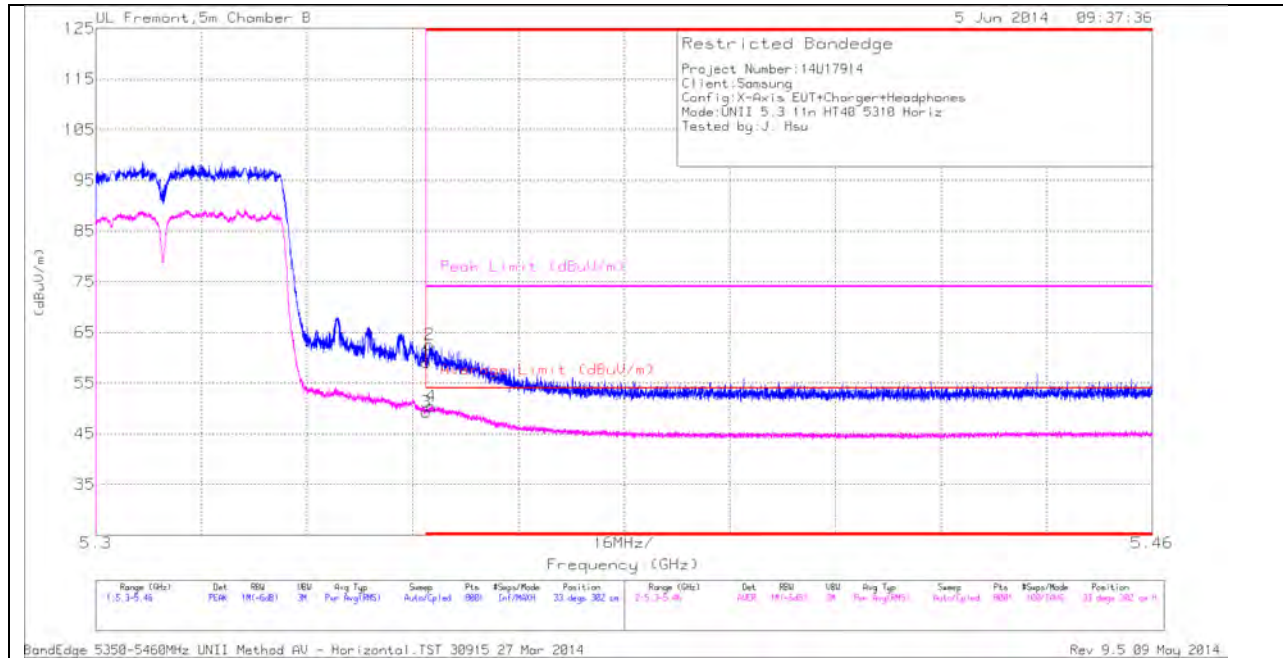
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

11.2.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

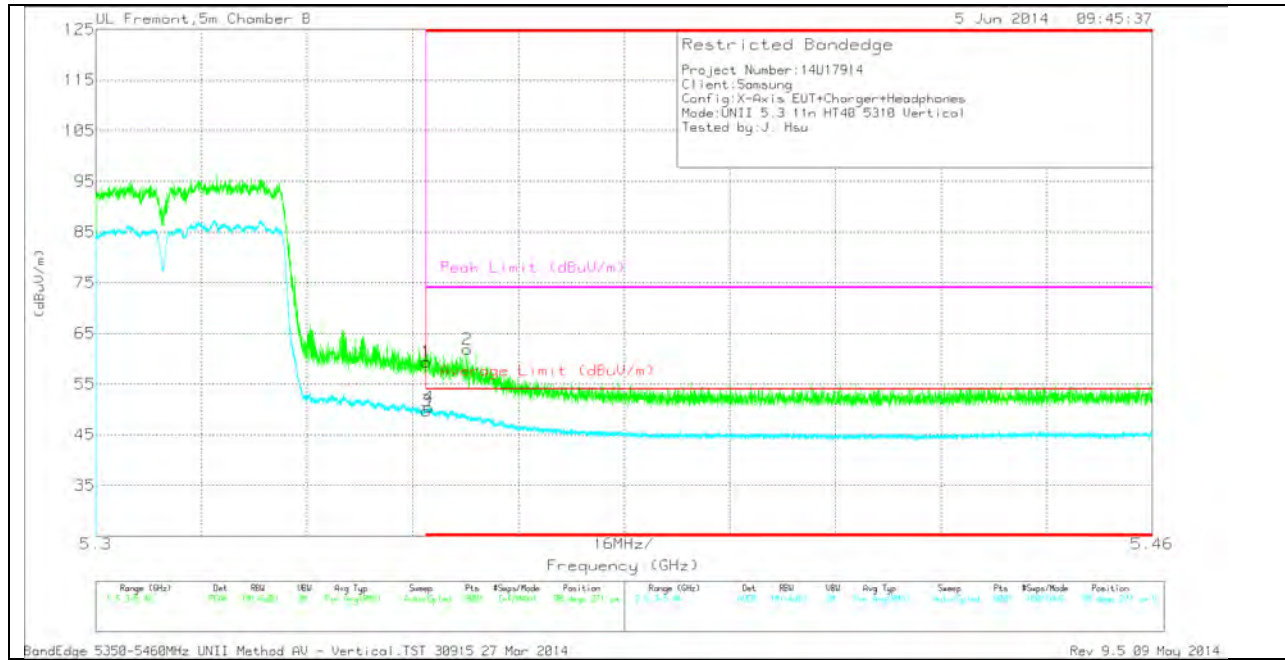
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	44.46	PK	34.5	-19.9	0	59.06	-	-	74	-14.94	33	302	H
2	* 5.351	48.05	PK	34.5	-20	0	62.55	-	-	74	-11.45	33	302	H
3	* 5.35	33.65	RMS	34.5	-19.9	1.1	49.35	54	-4.65	-	-	33	302	H
4	* 5.351	34.84	RMS	34.5	-20	1.1	50.44	54	-3.56	-	-	33	302	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

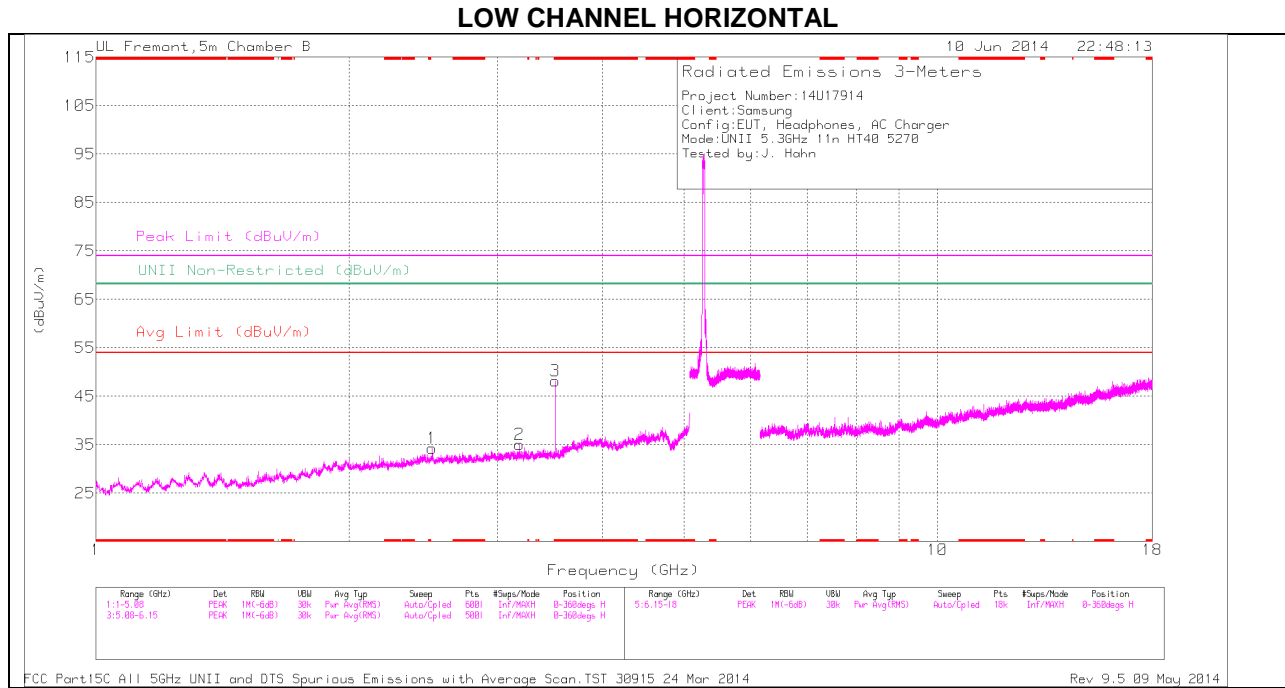
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	44.79	PK	34.5	-19.9	0	59.39	-	-	74	-14.61	98	271	V
2	* 5.356	47.32	PK	34.5	-20	0	61.82	-	-	74	-12.18	98	271	V
3	* 5.35	33.96	RMS	34.5	-19.9	1.1	49.66	54	-4.34	-	-	98	271	V
4	* 5.35	34.8	RMS	34.5	-20	1.1	50.4	54	-3.6	-	-	98	271	V

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

PK - Peak detector

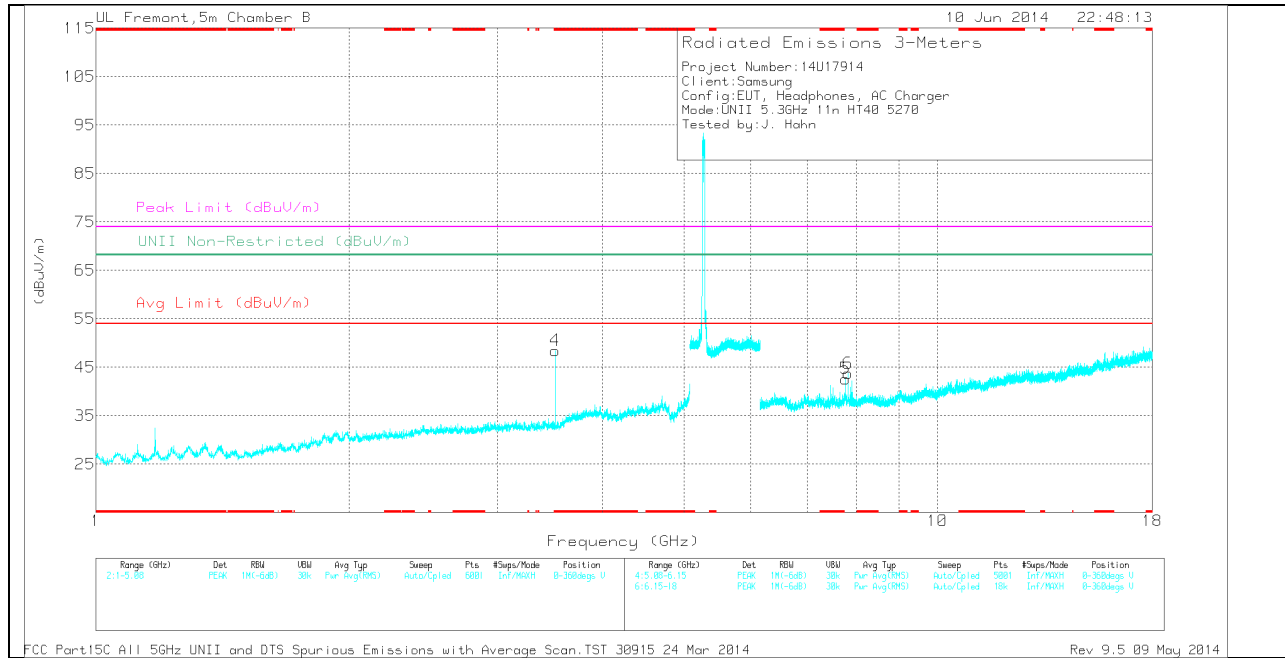
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



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

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.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 3.513	47.11	PK	32.8	-31.8	0	48.11	-	-	74	-25.89	-	-	0-360	201	H
4	* 3.513	47.49	PK	32.8	-31.8	0	48.49	-	-	74	-25.51	-	-	0-360	201	V
1	2.51	34.32	PK	32.4	-32.4	0	34.32	-	-	-	-	68.2	-33.88	0-360	201	H
2	3.183	33.94	PK	32.8	-31.7	0	35.04	-	-	-	-	68.2	-33.16	0-360	201	H
5	7.777	33.15	PK	35.7	-26.2	0	42.65	-	-	-	-	68.2	-25.55	0-360	201	V
6	7.829	34.28	PK	35.7	-26.2	0	43.78	-	-	-	-	68.2	-24.42	0-360	201	V

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

PK - Peak detector

Radiated Emissions

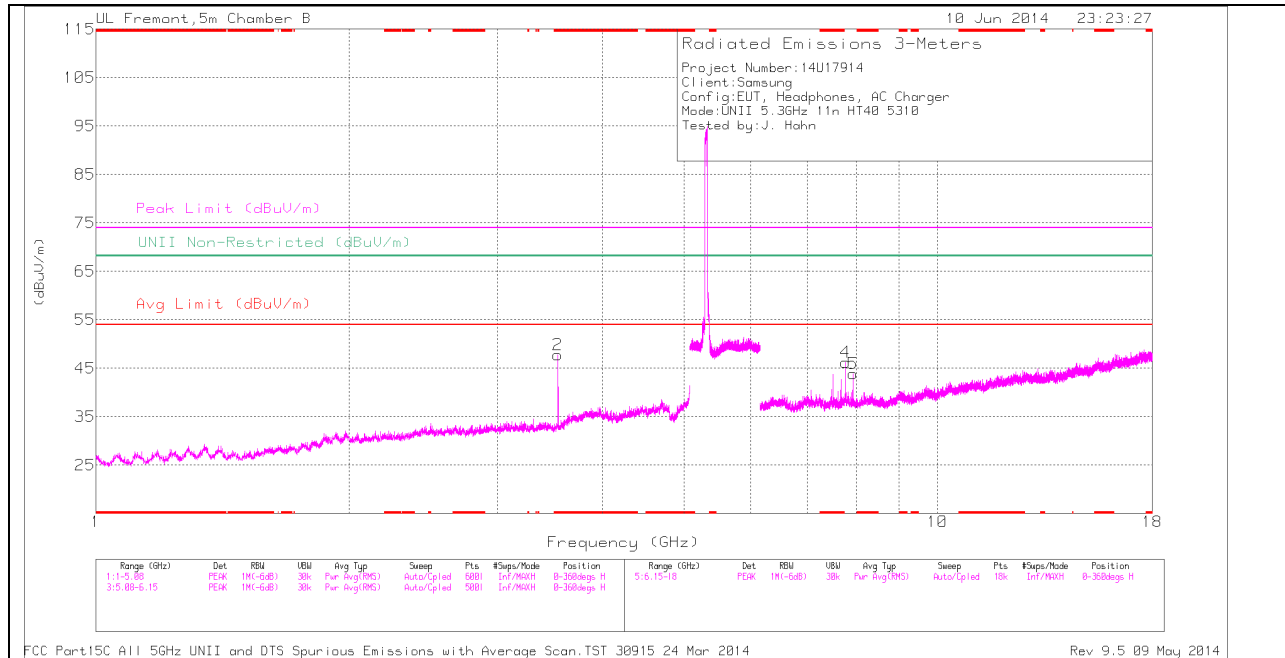
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.513	51.81	PK1	32.8	-31.8	0	52.81	-	-	74	-21.19	-	-	329	258	H
* 3.513	49.44	AD1	32.8	-31.8	1.1	51.54	54	-2.46	-	-	-	-	329	258	H
* 3.514	51.39	PK1	32.8	-31.8	0	52.39	-	-	74	-21.61	-	-	116	379	V
* 3.513	48.65	AD1	32.8	-31.8	1.1	50.75	54	-3.25	-	-	-	-	116	379	V

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

PK1 - KDB789033 Method: Peak

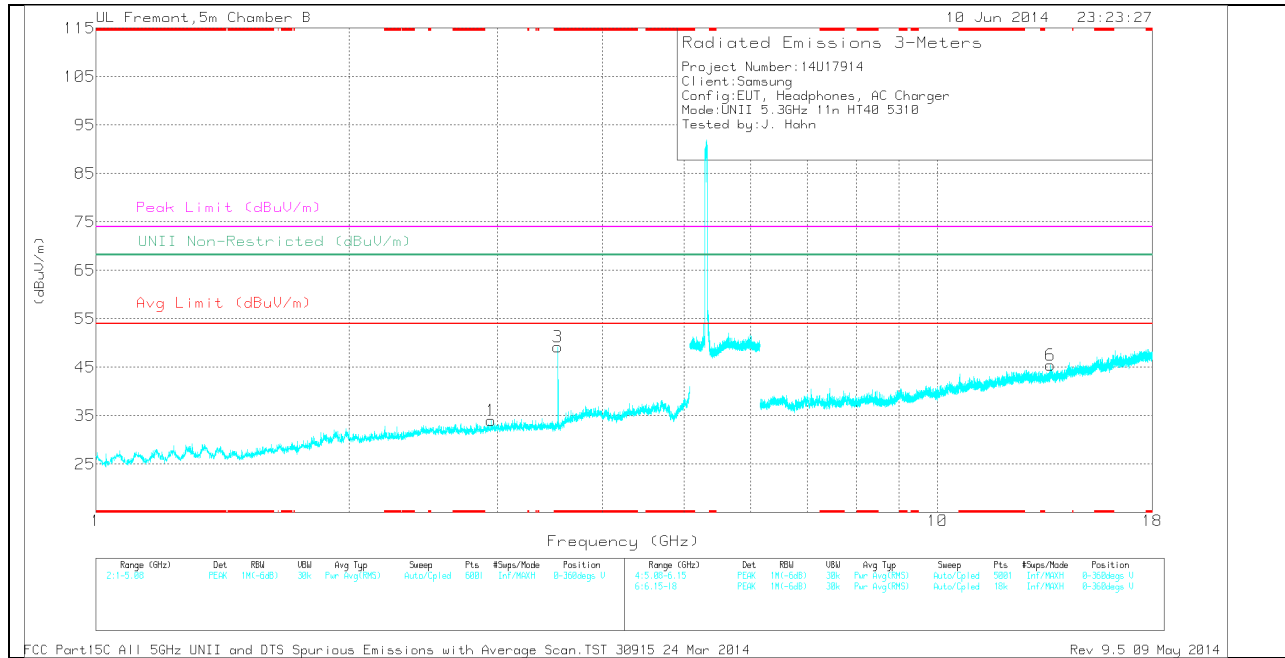
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL



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

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.

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.54	46.85	PK	32.9	-32	0	47.75	-	-	74	-26.25	-	-	0-360	100	H
3	* 3.54	48.3	PK	32.9	-32	0	49.2	-	-	74	-24.8	-	-	0-360	201	V
6	13.612	27.9	PK	38.8	-21.3	0	45.4	-	-	-	-	68.2	-22.8	0-360	201	V
1	2.95	33.27	PK	32.7	-31.9	0	34.07	-	-	-	-	68.2	-34.13	0-360	201	V
4	7.773	36.86	PK	35.7	-26.3	0	46.26	-	-	-	-	68.2	-21.94	0-360	200	H
5	7.932	35.26	PK	35.7	-27.1	0	43.86	-	-	-	-	68.2	-24.34	0-360	200	H

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.54	52.47	PK1	32.9	-32	0	53.37	-	-	74	-20.63	-	-	333	226	H
* 3.54	50.46	AD1	32.9	-32	1.1	52.46	54	-1.54	-	-	-	-	333	226	H
* 3.54	52.22	PK1	32.9	-32	0	53.12	-	-	74	-20.88	-	-	116	232	V
* 3.54	50.15	AD1	32.9	-32	1.1	52.15	54	-1.85	-	-	-	-	116	232	V

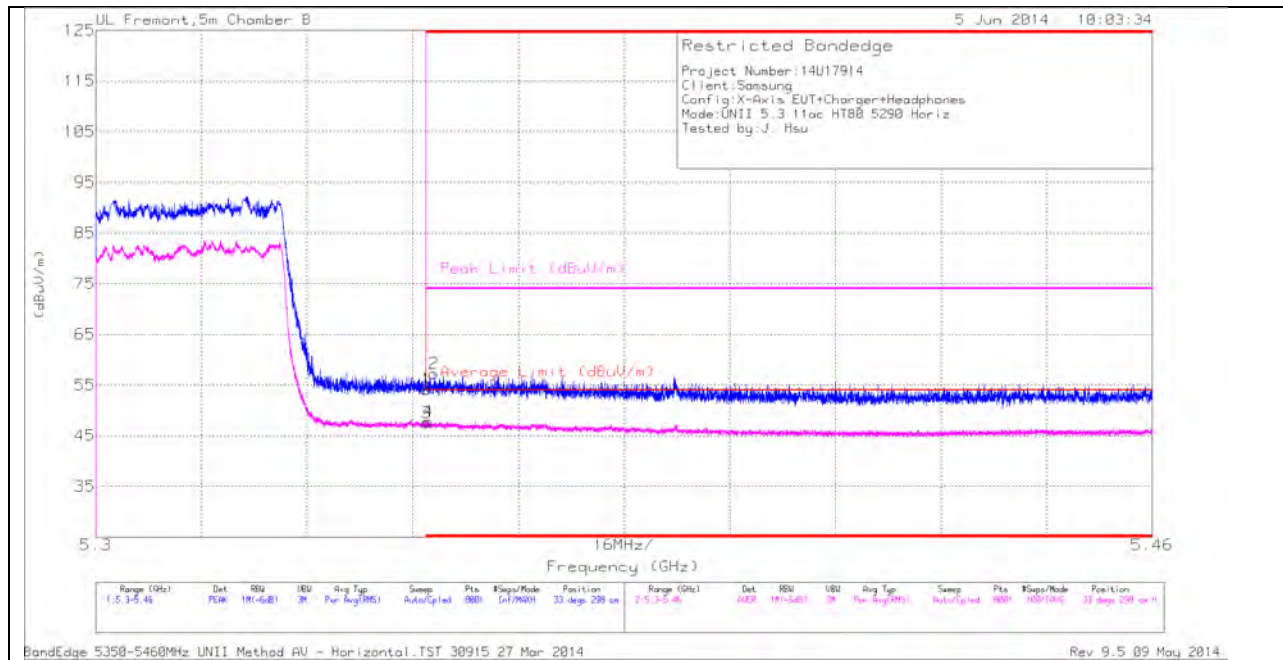
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

11.2.4. 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

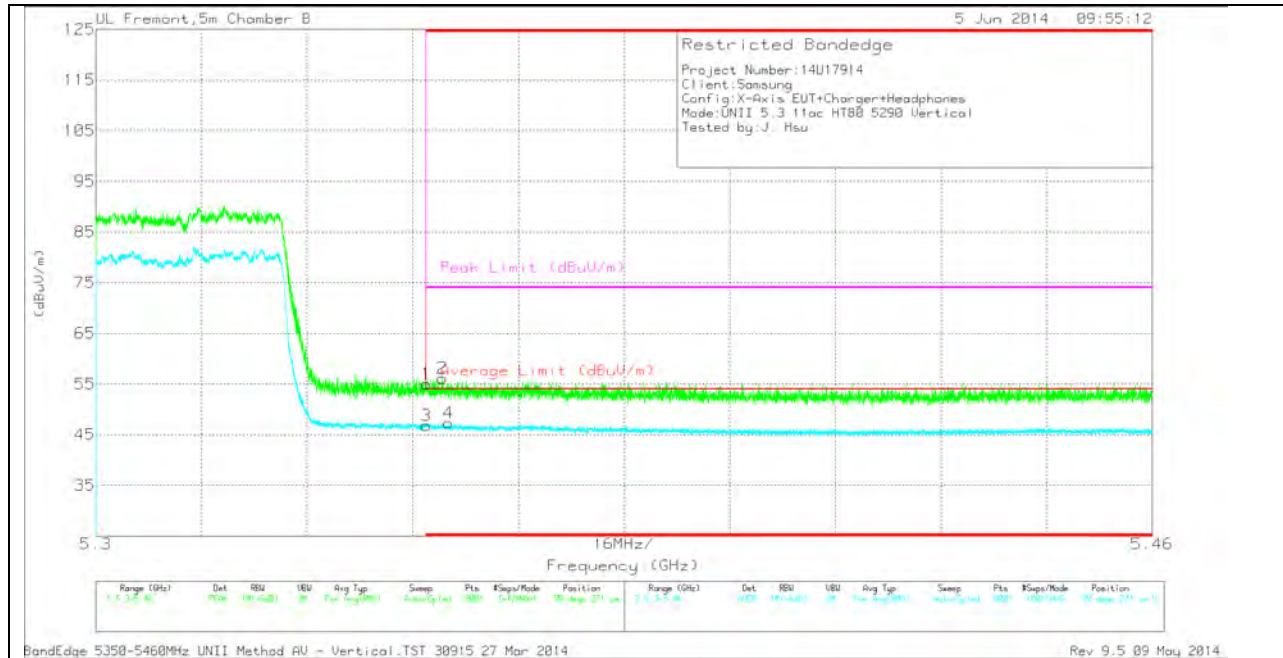
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	39.53	PK	34.5	-19.9	0	54.13	-	-	74	-19.87	33	298	H
3	* 5.35	31.11	RMS	34.5	-19.9	1.8	47.51	54	-6.49	-	-	33	298	H
4	* 5.35	31.47	RMS	34.5	-20	1.8	47.77	54	-6.23	-	-	33	298	H
2	* 5.351	42.71	PK	34.5	-20	0	57.21	-	-	74	-16.79	33	298	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitter/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	40.43	PK	34.5	-19.9	0	55.03	-	-	74	-18.97	99	271	V
2	* 5.352	41.63	PK	34.5	-20	0	56.13	-	-	74	-17.87	99	271	V
3	* 5.35	30.44	RMS	34.5	-19.9	1.8	46.84	54	-7.16	-	-	99	271	V
4	* 5.353	31.05	RMS	34.5	-20	1.8	47.35	54	-6.65	-	-	99	271	V

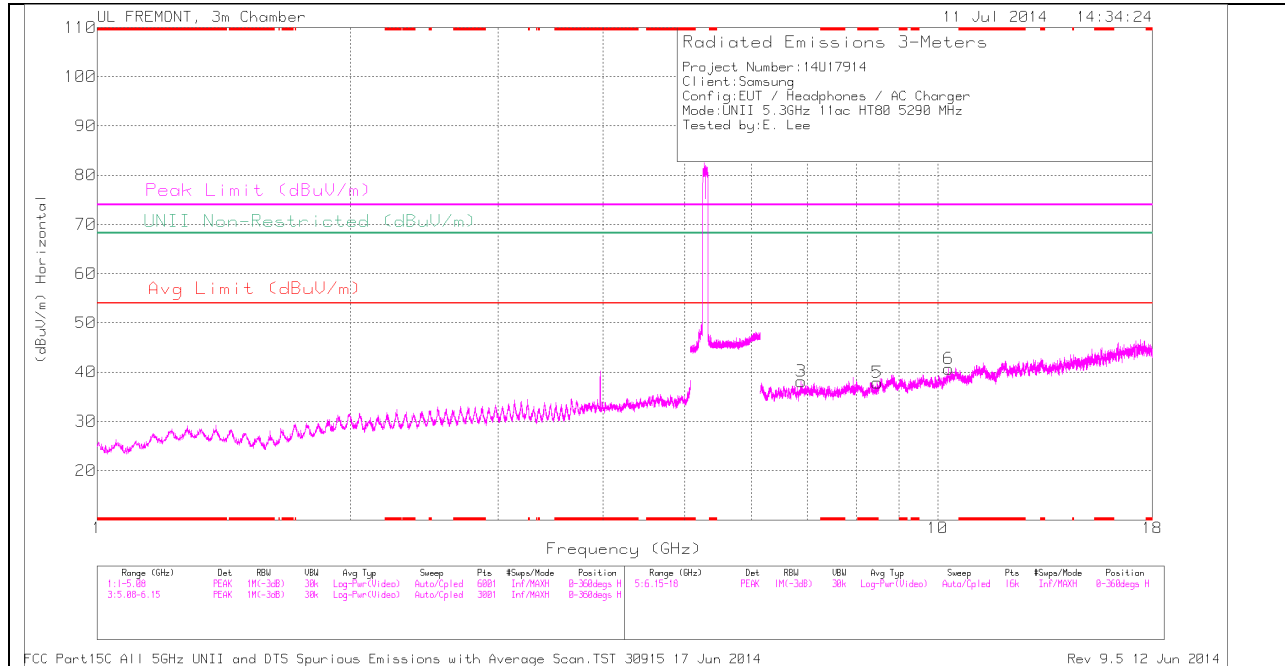
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

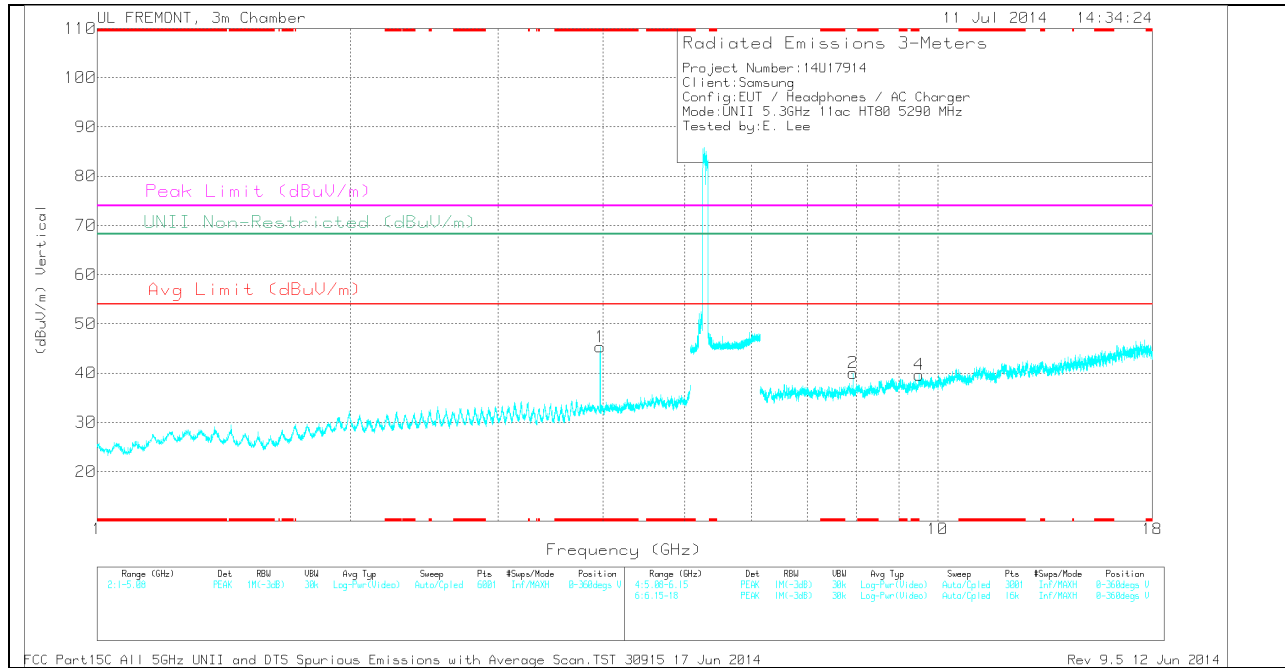
HARMONICS AND SPURIOUS EMISSIONS

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.

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.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.968	43.49	PK	33.3	-31.5	0	45.29	-	-	74	-28.71	-	-	0-360	200	V
5	* 8.475	30.07	PK	35.8	-28	0	37.87	-	-	74	-36.13	-	-	0-360	100	H
3	6.881	31.92	PK	35.6	-29.4	0	38.12	-	-	-	-	68.2	-30.08	0-360	100	H
2	7.935	32.83	PK	35.8	-28.6	0	40.03	-	-	-	-	68.2	-28.17	0-360	100	V
4	9.505	28.86	PK	36.6	-25.8	0	39.66	-	-	-	-	68.2	-28.54	0-360	100	V
6	10.307	28.28	PK	37.1	-24.7	0	40.68	-	-	-	-	68.2	-27.52	0-360	200	H

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.968	49.97	PK1	33.3	-31.5	0	51.77	-	-	74	-22.23	-	-	309	304	V
* 3.968	46.93	AD1	33.3	-31.5	1.8	50.53	54	-3.47	-	-	-	-	309	304	V
7.935	39.99	PK1	35.8	-28.6	0	47.19	-	-	-	-	68.2	-21.01	336	100	V
7.935	31.25	AD1	35.8	-28.6	1.8	40.25	-	-	-	-	-	-	336	100	V

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

PK1 - KDB789033 Method: Peak

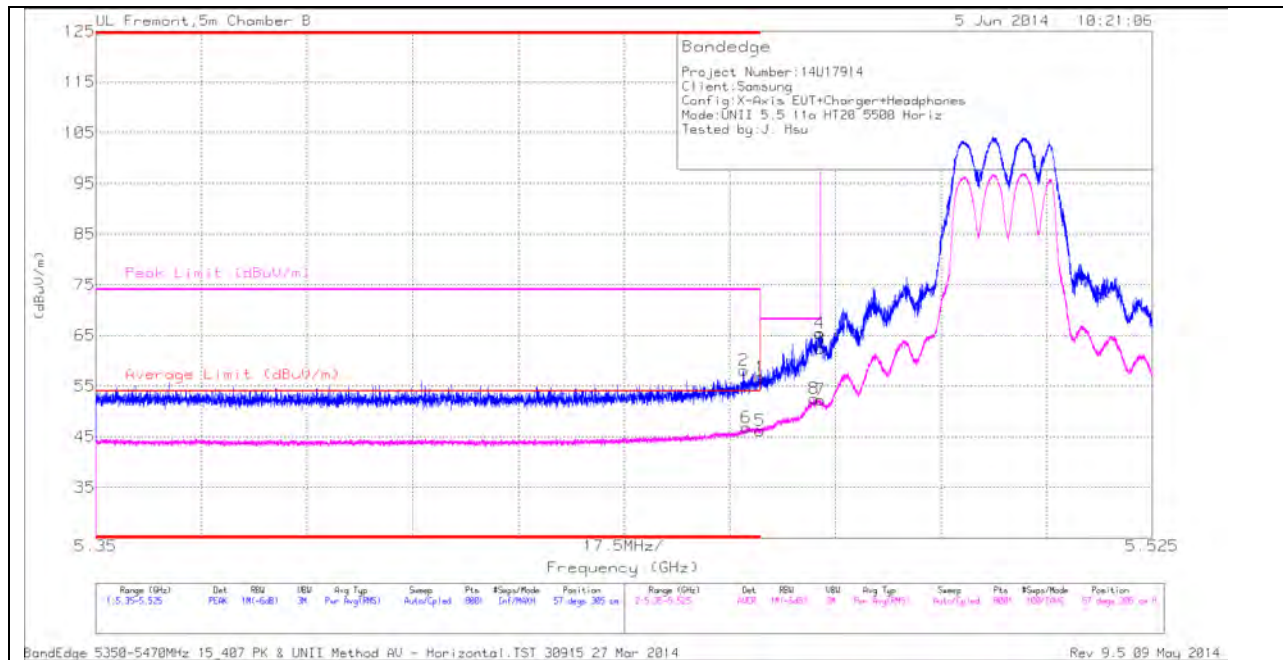
AD1 - KDB789033 Method: AD Primary Power Average

11.3. 5.5-5.6 GHz

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

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

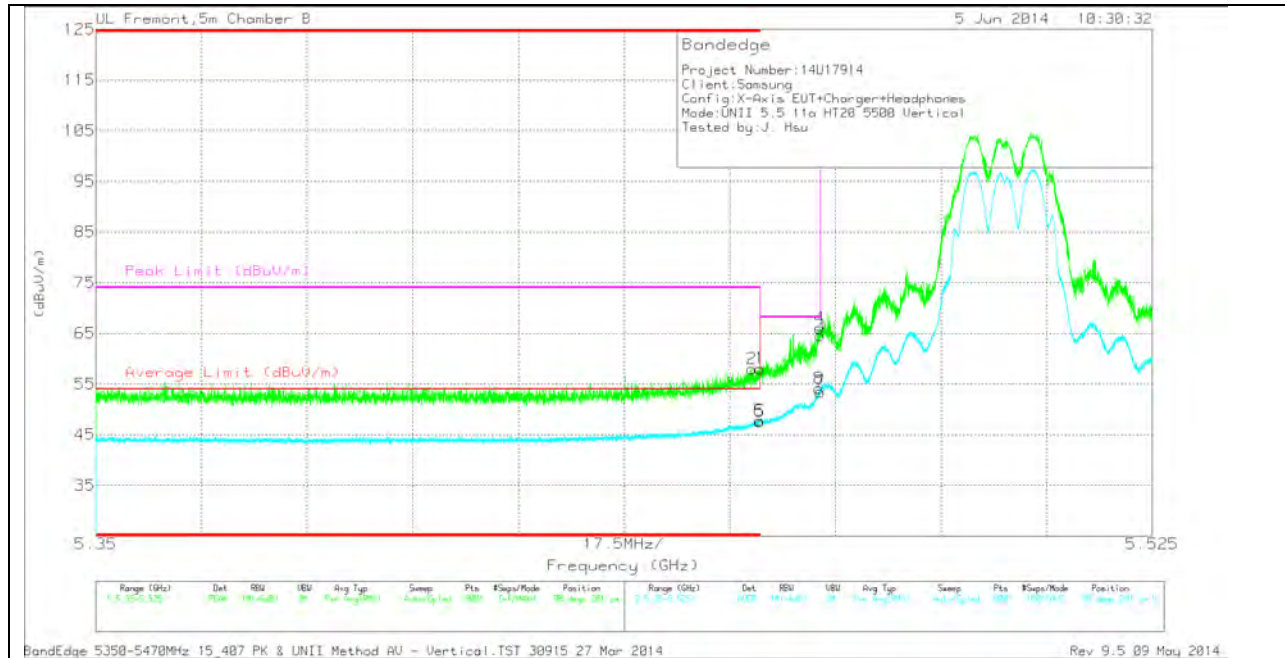
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.457	43.77	PK	34.5	-20.1	0	58.17	-	-	74	-15.83	57	305	H
6	* 5.458	32.17	RMS	34.5	-20.1	.3	46.87	54	-7.13	-	-	57	305	H
1	* 5.46	42.31	PK	34.5	-20.1	0	56.71	-	-	74	-17.29	57	305	H
5	* 5.46	31.48	RMS	34.5	-20.1	.3	46.18	54	-7.82	-	-	57	305	H
8	5.469	37.76	RMS	34.5	-20	.3	52.56	-	-	-	-	57	305	H
3	5.47	47.78	PK	34.5	-20	0	62.28	-	-	68.2	-5.92	57	305	H
4	5.47	50.98	PK	34.5	-20	0	65.48	-	-	68.2	-2.72	57	305	H
7	5.47	37.49	RMS	34.5	-20	.3	52.29	-	-	-	-	57	305	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit 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	43.64	PK	34.5	-20.1	0	58.04	-	-	74	-15.96	98	281	V
1	* 5.46	43.65	PK	34.5	-20.1	0	58.05	-	-	74	-15.95	98	281	V
5	* 5.46	32.92	RMS	34.5	-20.1	.3	47.62	54	-6.38	-	-	98	281	V
6	* 5.46	33.13	RMS	34.5	-20.1	.3	47.83	54	-6.17	-	-	98	281	V
3	5.47	50.05	PK	34.5	-20	0	64.55	-	-	68.2	-3.65	98	281	V
4	5.47	51.61	PK	34.5	-20	0	66.11	-	-	68.2	-2.09	98	281	V

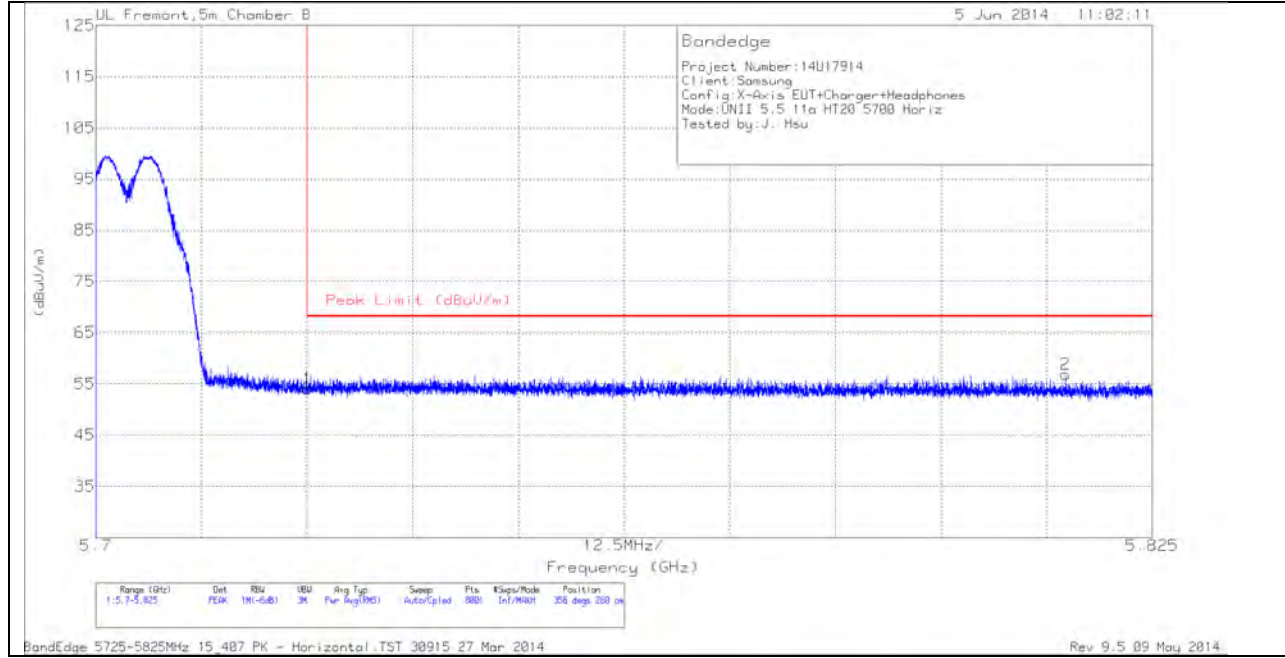
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



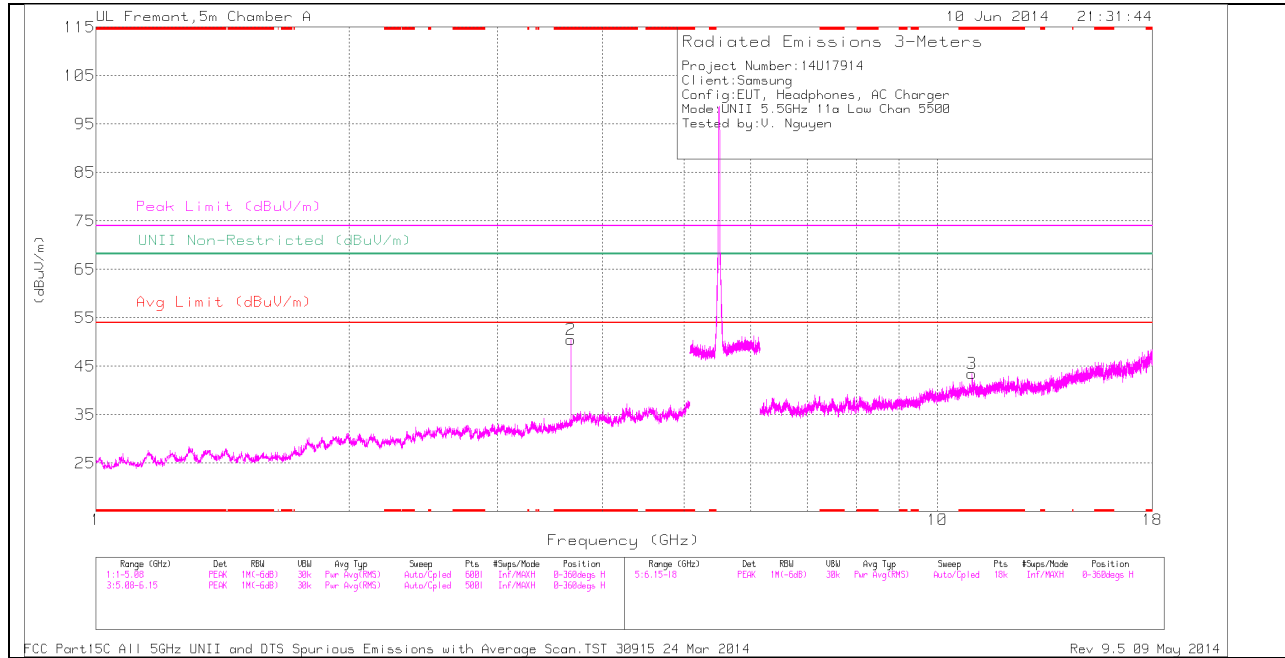
HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F Itr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	39.34	PK	34.6	-19.9	0	54.04	68.2	-14.16	356	260	H
2	5.815	42.02	PK	34.7	-19.8	0	56.92	68.2	-11.28	356	260	H

PK - Peak detector

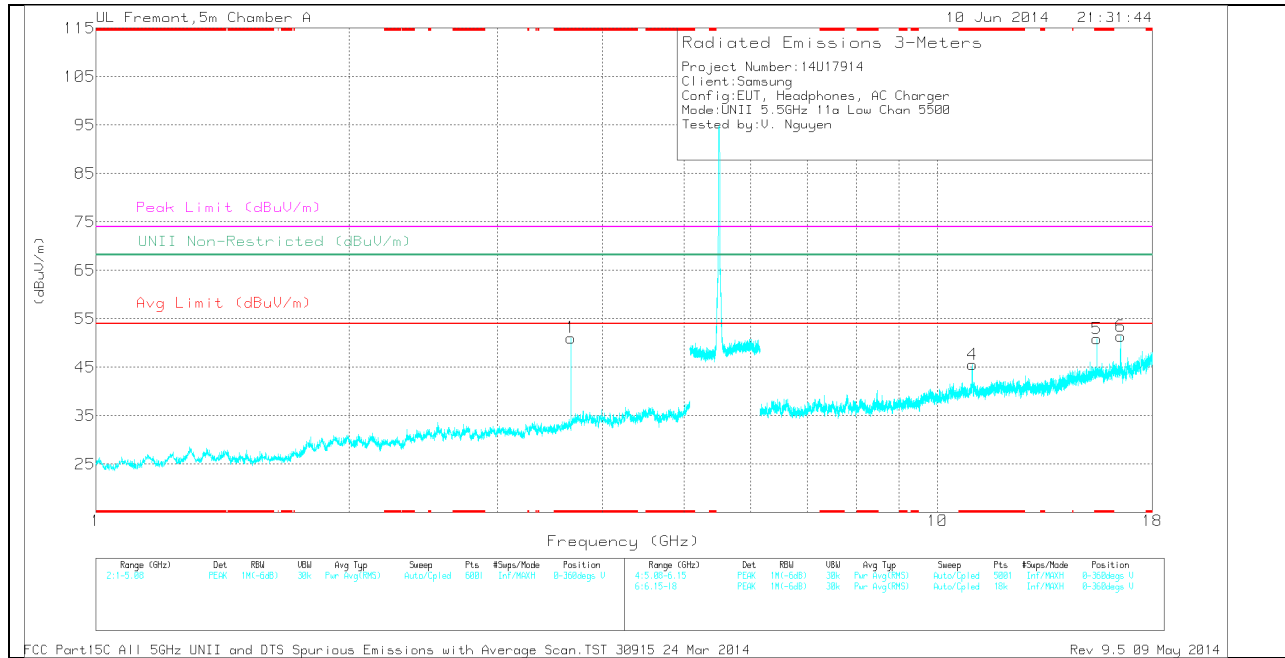
HARMONICS AND SPURIOUS EMISSIONS

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.

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.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.667	49.42	PK	33.3	-32.2	0	50.52	-	-	74	-23.48	-	-	0-360	200	H
1	* 3.667	49.99	PK	33.3	-32.2	0	51.09	-	-	74	-22.91	-	-	0-360	100	V
3	* 10.995	28.17	PK	37.7	-22.4	0	43.47	-	-	74	-30.53	-	-	0-360	200	H
4	* 11	30.52	PK	37.7	-22.6	0	45.62	-	-	74	-28.38	-	-	0-360	200	V
5	* 15.46	32.14	PK	40.6	-21.8	0	50.94	-	-	74	-23.06	-	-	0-360	200	V
6	16.504	32.94	PK	40.5	-22	0	51.44	-	-	-	-	68.2	-16.76	0-360	100	V

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

PK - Peak detector

Radiated Emissions

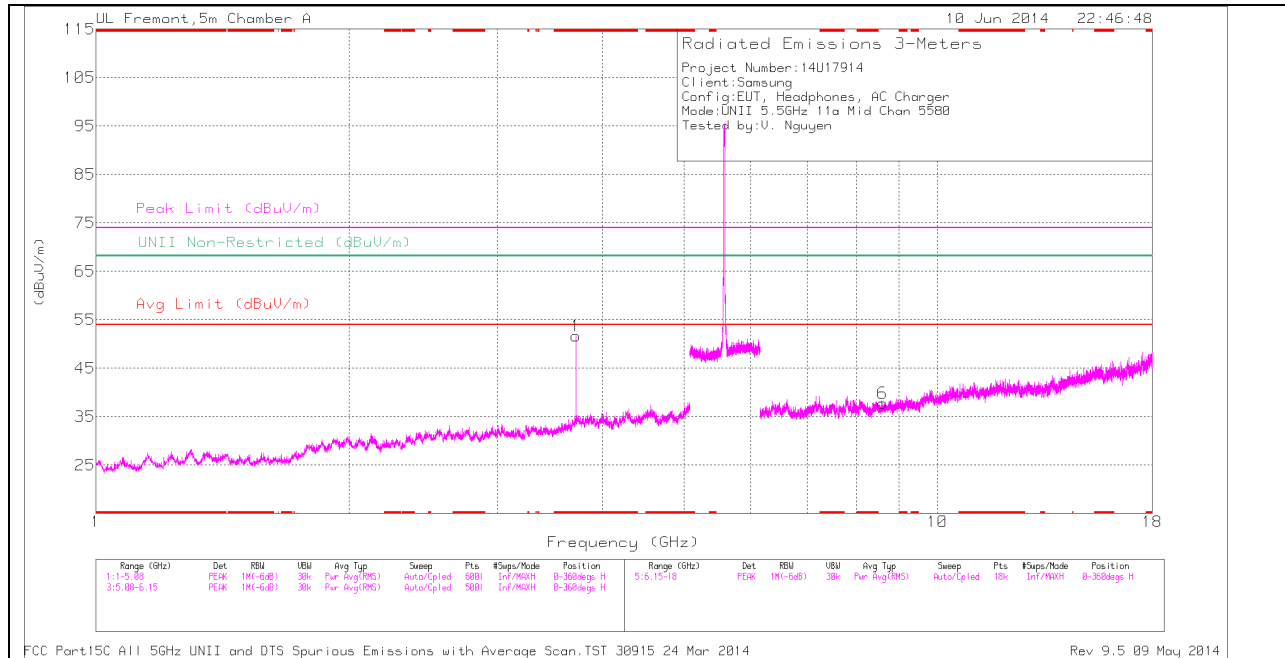
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.667	50.44	PK1	33.3	-32.2	0	51.54	-	-	74	-22.46	-	-	136	270	H
* 3.667	48	AD1	33.3	-32.2	.3	49.4	54	-4.6	-	-	-	-	136	270	H
* 3.667	52.63	PK1	33.3	-32.2	0	53.73	-	-	74	-20.27	-	-	7	296	V
* 3.667	50.86	AD1	33.3	-32.2	.3	52.26	54	-1.74	-	-	-	-	7	296	V
* 10.996	37.21	PK1	37.7	-22.5	0	52.41	-	-	74	-21.59	-	-	176	382	H
* 10.996	25.64	AD1	37.7	-22.4	.3	41.24	54	-12.76	-	-	-	-	176	382	H
* 11.001	41.07	PK1	37.7	-22.6	0	56.17	-	-	74	-17.83	-	-	36	362	V
* 11.001	29.66	AD1	37.7	-22.6	.3	45.06	54	-8.94	-	-	-	-	36	362	V
* 15.459	33.91	PK1	40.6	-21.9	0	52.61	-	-	74	-21.39	-	-	175	200	V
* 15.46	22.63	AD1	40.6	-21.8	.3	41.73	54	-12.27	-	-	-	-	175	200	V

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

PK1 - KDB789033 Method: Peak

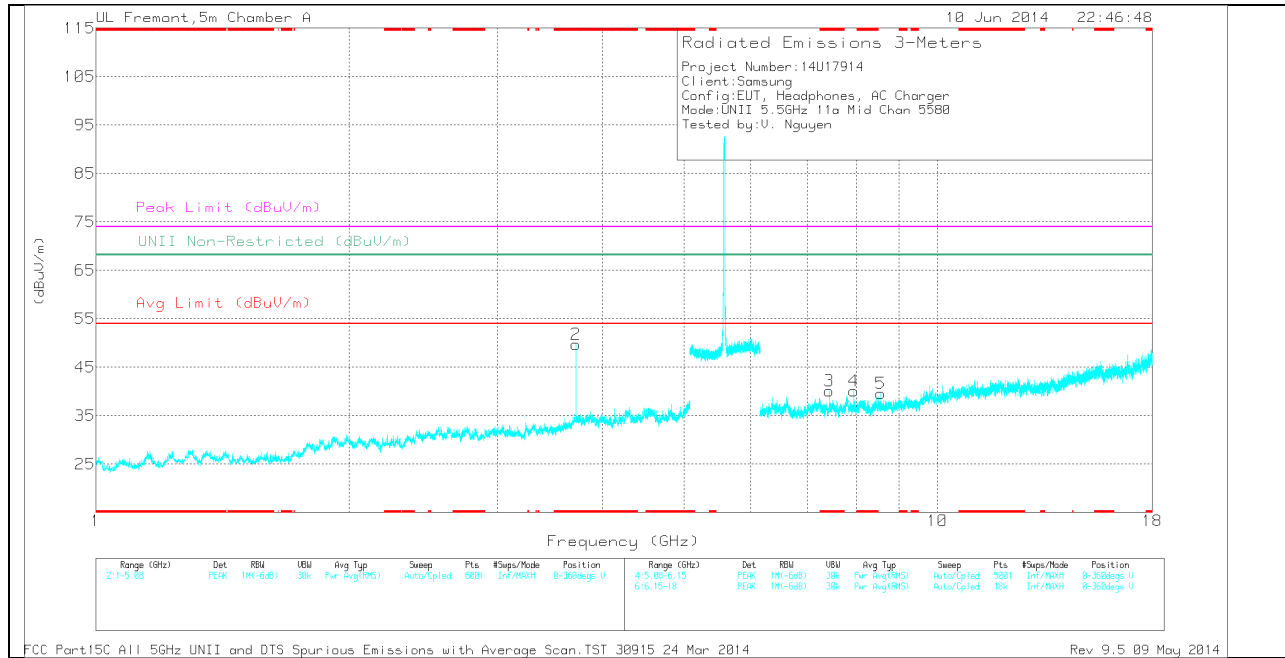
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL



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

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.

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.72	48.58	PK	33.4	-30.3	0	51.68	-	-	74	-22.32	-	-	0-360	200	H
2	* 3.72	46.64	PK	33.4	-30.3	0	49.74	-	-	74	-24.26	-	-	0-360	100	V
3	* 7.44	31.44	PK	35.3	-26.6	0	40.14	-	-	74	-33.86	-	-	0-360	100	V
4	7.95	30.66	PK	35.5	-26	0	40.16	-	-	-	-	68.2	-28.04	0-360	100	V
5	8.567	30.12	PK	35.7	-26.2	0	39.62	-	-	-	-	68.2	-28.58	0-360	100	V
6	8.601	27.79	PK	35.7	-25.7	0	37.79	-	-	-	-	68.2	-30.41	0-360	100	H

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

PK - Peak detector

Radiated Emissions

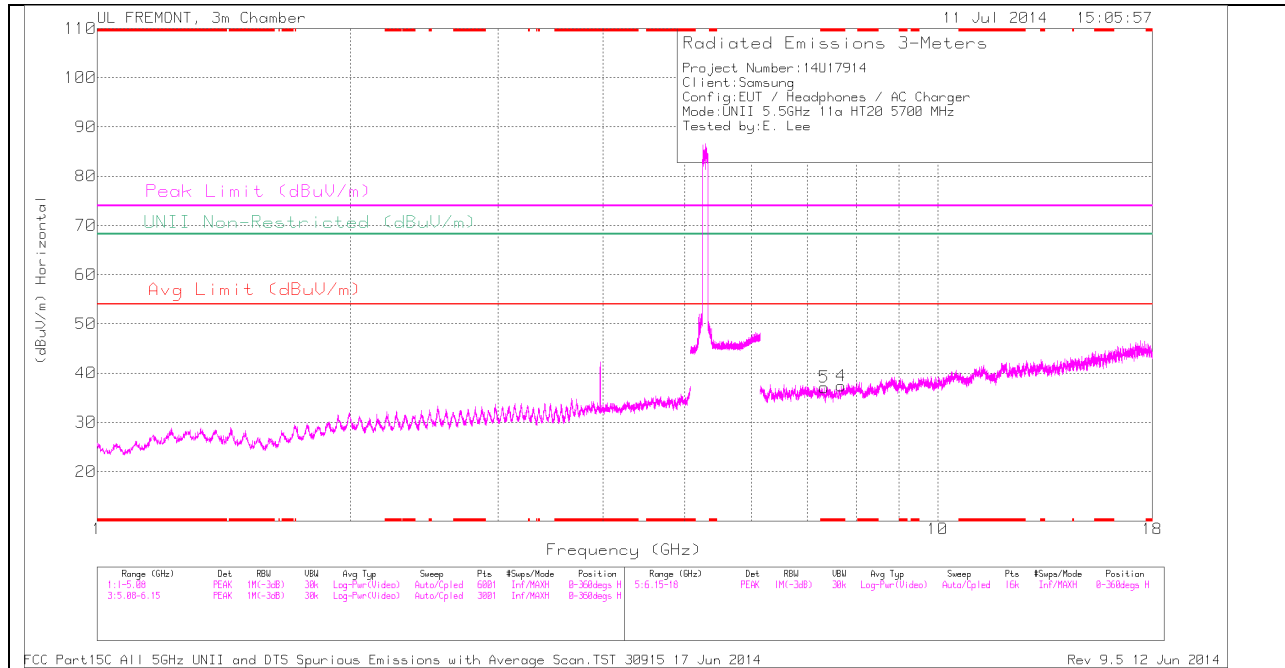
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.72	51.69	PK1	33.4	-30.3	0	54.79	-	-	74	-19.21	-	-	211	309	H
* 3.72	49.72	AD1	33.4	-30.3	.3	53.12	54	-.88	-	-	-	-	211	309	H
* 3.72	52	PK1	33.4	-30.3	0	55.1	-	-	74	-18.9	-	-	8	292	V
* 3.72	50.23	AD1	33.4	-30.3	.3	53.63	54	-.37	-	-	-	-	8	292	V
* 7.44	36.16	PK1	35.3	-26.6	0	44.86	-	-	74	-29.14	-	-	258	287	V
* 7.44	31.54	AD1	35.3	-26.6	.3	40.54	54	-13.46	-	-	-	-	258	287	V

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

PK1 - KDB789033 Method: Peak

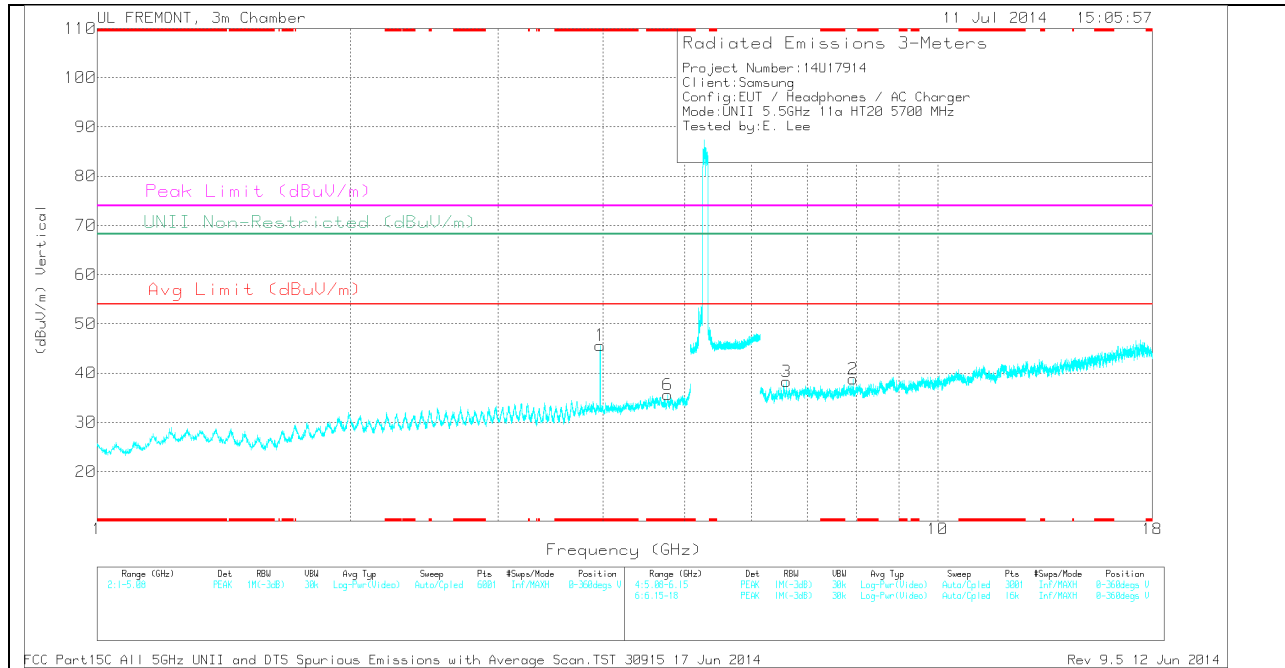
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL



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

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.

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.968	43.81	PK	33.3	-31.5	0	45.61	-	-	74	-28.39	-	-	0-360	200	V
6	* 4.772	31.68	PK	34.1	-30.2	0	35.58	-	-	74	-38.42	-	-	0-360	200	V
4	* 7.678	30.4	PK	35.8	-28.8	0	37.4	-	-	74	-36.6	-	-	0-360	200	H
5	* 7.332	30.79	PK	35.6	-29.3	0	37.09	-	-	74	-36.91	-	-	0-360	100	H
3	6.613	32.18	PK	35.6	-29.5	0	38.28	-	-	-	-	68.2	-29.92	0-360	100	V
2	7.935	31.58	PK	35.8	-28.6	0	38.78	-	-	-	-	68.2	-29.42	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 T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.968	49.77	PK1	33.3	-31.5	0	51.57	-	-	74	-22.43	-	-	19	292	V
* 3.968	46.61	AD1	33.3	-31.5	.3	48.71	54	-5.29	-	-	-	-	19	292	V
6.613	41.43	PK1	35.6	-29.5	0	47.53	-	-	-	-	68.2	-20.67	19	100	V
6.613	30.74	AD1	35.6	-29.5	.3	37.14	-	-	-	-	-	-	19	100	V
7.935	40.15	PK1	35.8	-28.6	0	47.35	-	-	-	-	68.2	-20.85	19	100	V
7.935	30.65	AD1	35.8	-28.6	.3	38.15	-	-	-	-	-	-	19	100	V

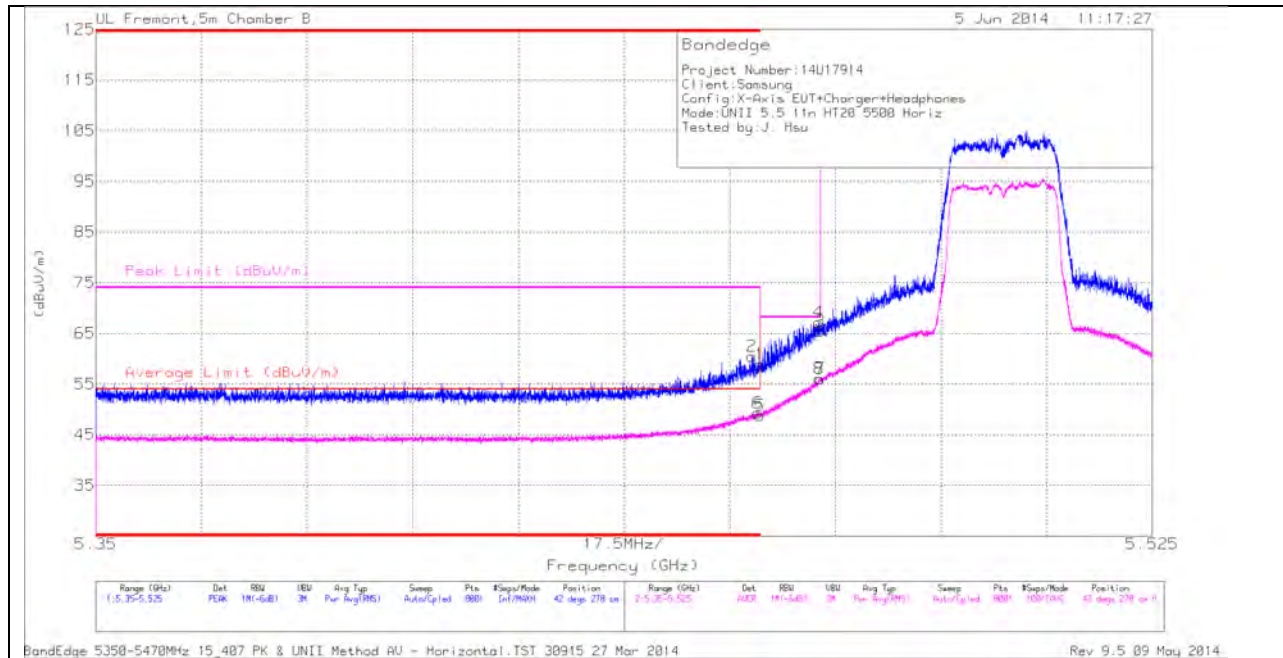
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

11.3.2. 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

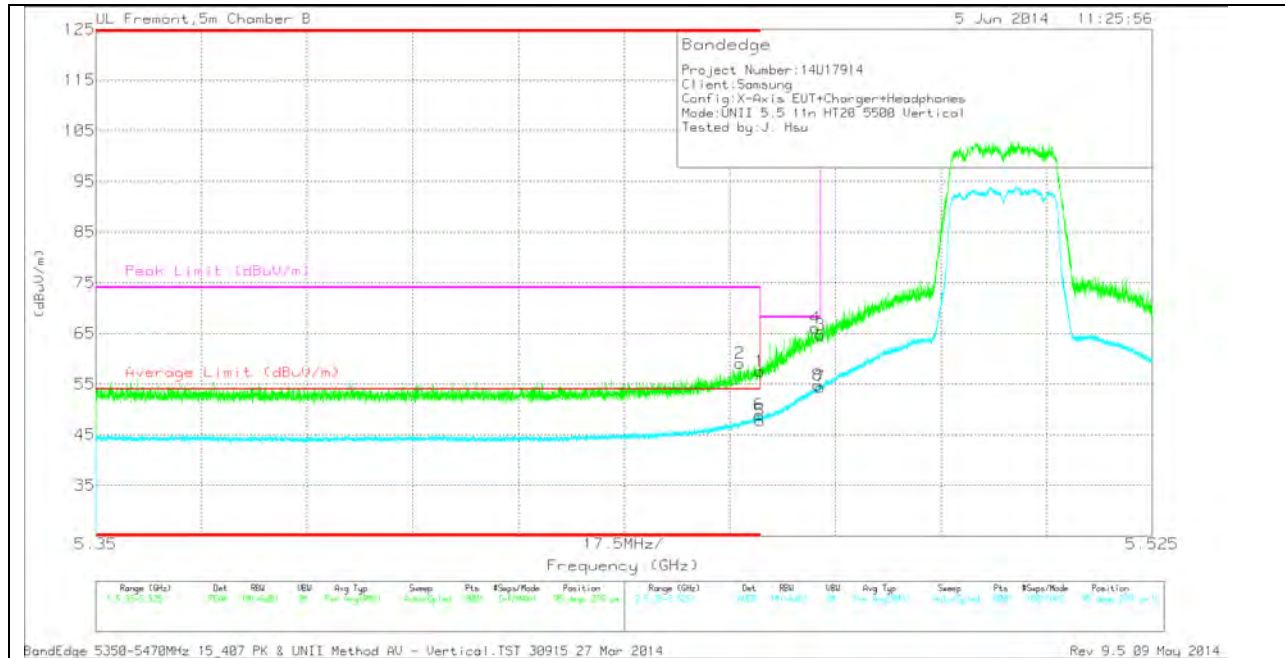
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	44.4	PK	34.5	-20.1	0	58.8	-	-	74	-15.2	42	278	H
2	* 5.459	46.1	PK	34.5	-20.1	0	60.5	-	-	74	-13.5	42	278	H
5	* 5.46	33.79	RMS	34.5	-20.1	.6	48.79	54	-5.21	-	-	42	278	H
6	* 5.46	34.28	RMS	34.5	-20.1	.6	49.28	54	-4.72	-	-	42	278	H
3	5.47	50.92	PK	34.5	-20	0	65.42	-	-	68.2	-2.78	42	278	H
4	5.47	52.73	PK	34.5	-20	0	67.23	-	-	68.2	-97	42	278	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit 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	43.12	PK	34.5	-20.1	0	57.52	-	-	74	-16.48	95	279	V
2	* 5.457	44.7	PK	34.5	-20.1	0	59.1	-	-	74	-14.9	95	279	V
5	* 5.46	32.82	RMS	34.5	-20.1	.6	47.82	54	-6.18	-	-	95	279	V
6	* 5.46	33.87	RMS	34.5	-20.1	.6	48.87	54	-5.13	-	-	95	279	V
4	5.469	51.53	PK	34.5	-20	0	66.03	-	-	68.2	-2.17	95	279	V
3	5.47	50.22	PK	34.5	-20	0	64.72	-	-	68.2	-3.48	95	279	V

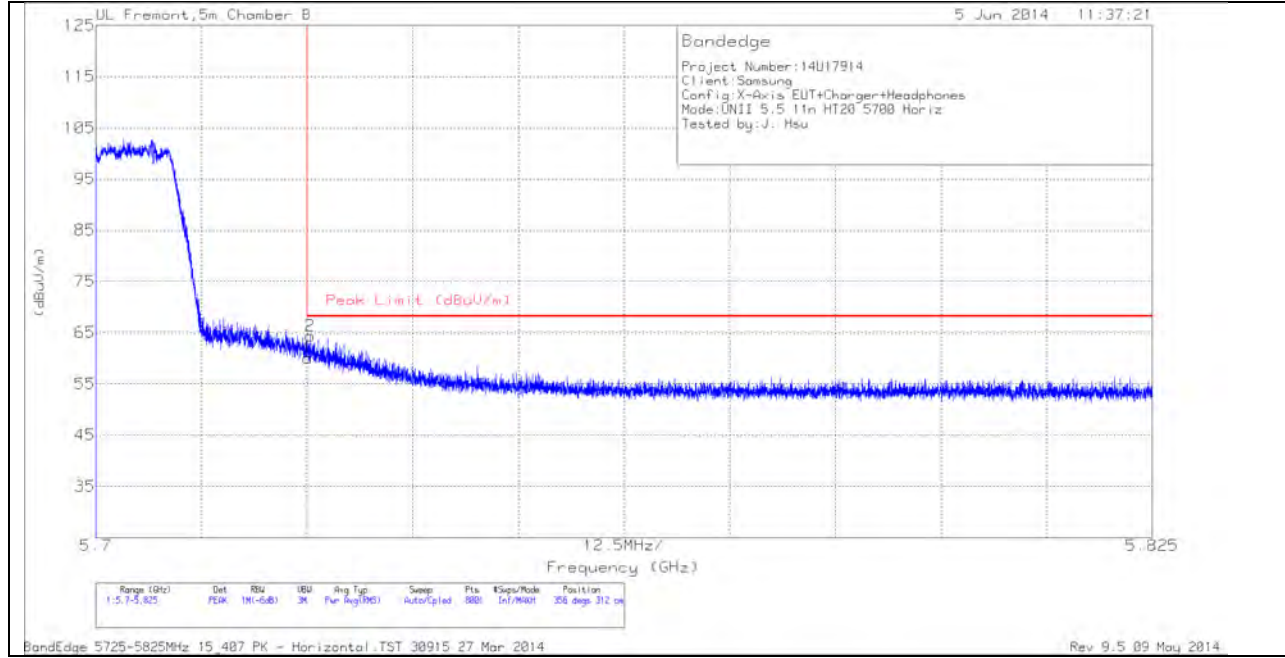
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT

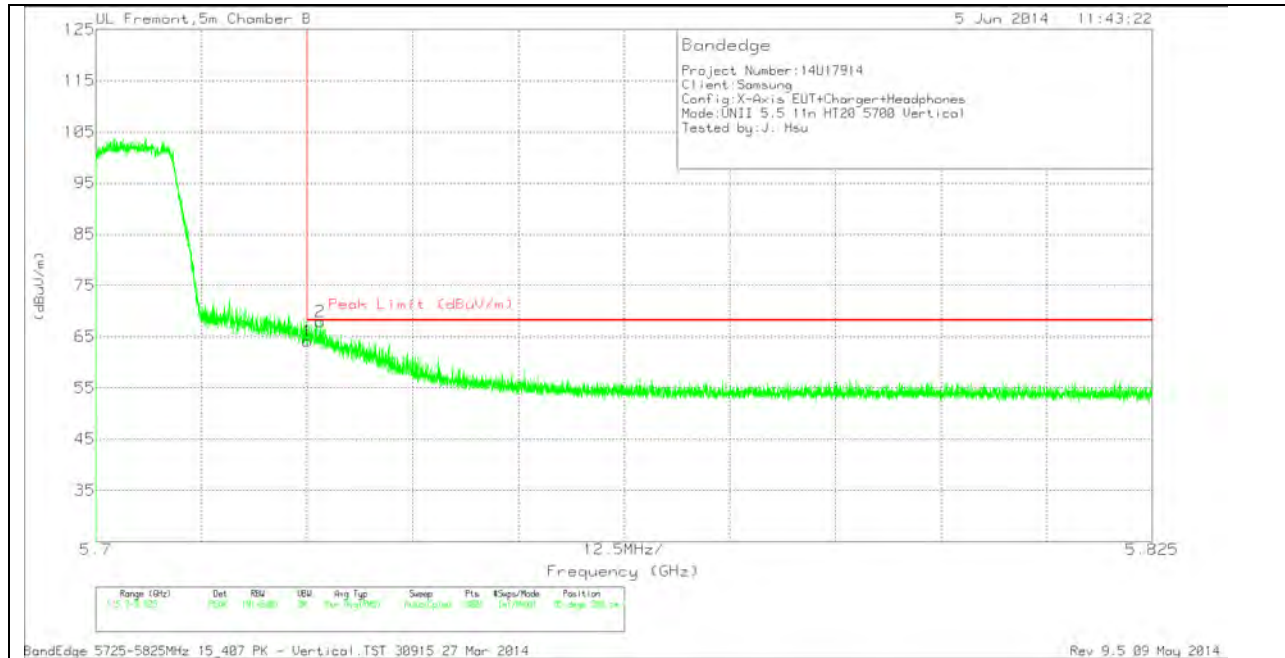


HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F Itr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	45.35	PK	34.6	-19.9	0	60.05	68.2	-8.15	356	312	H
2	5.725	49.63	PK	34.6	-19.9	0	64.33	68.2	-3.87	356	312	H

PK - Peak detector

VERTICAL PEAK AND AVERAGE PLOT

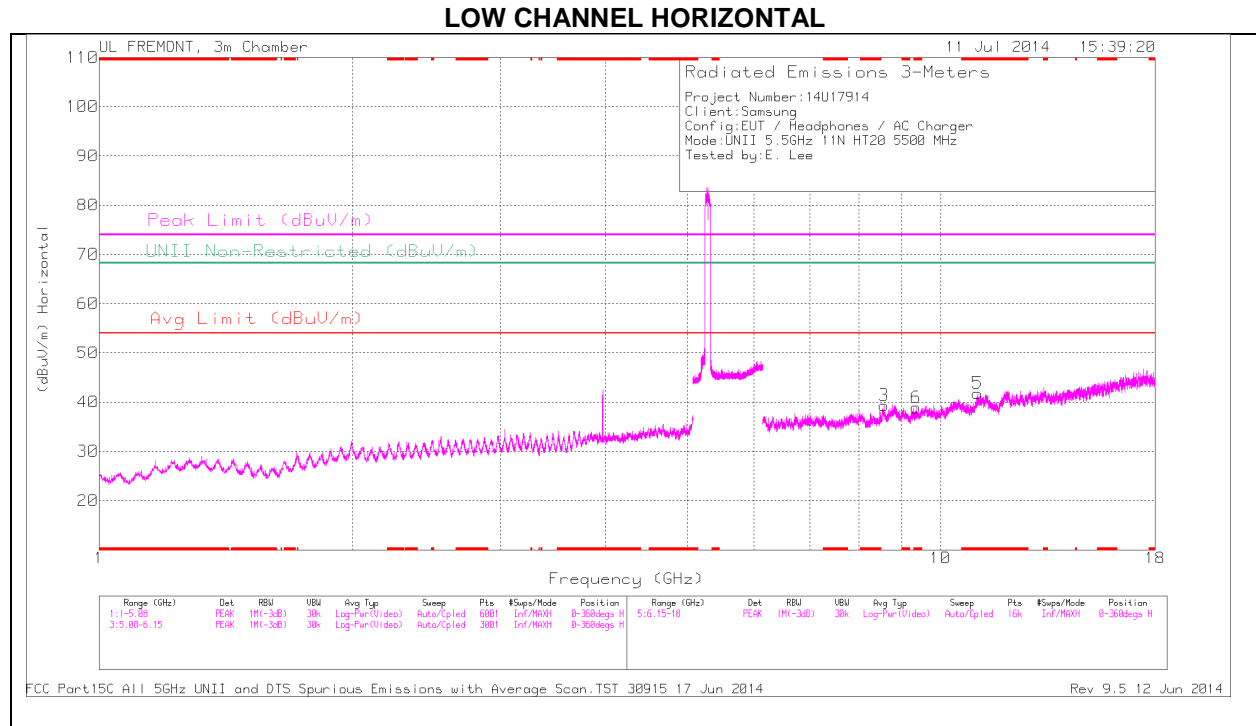


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	49.39	PK	34.6	-19.9	0	64.09	68.2	-4.11	85	288	V
2	5.727	53.19	PK	34.6	-19.9	0	67.89	68.2	-.31	85	288	V

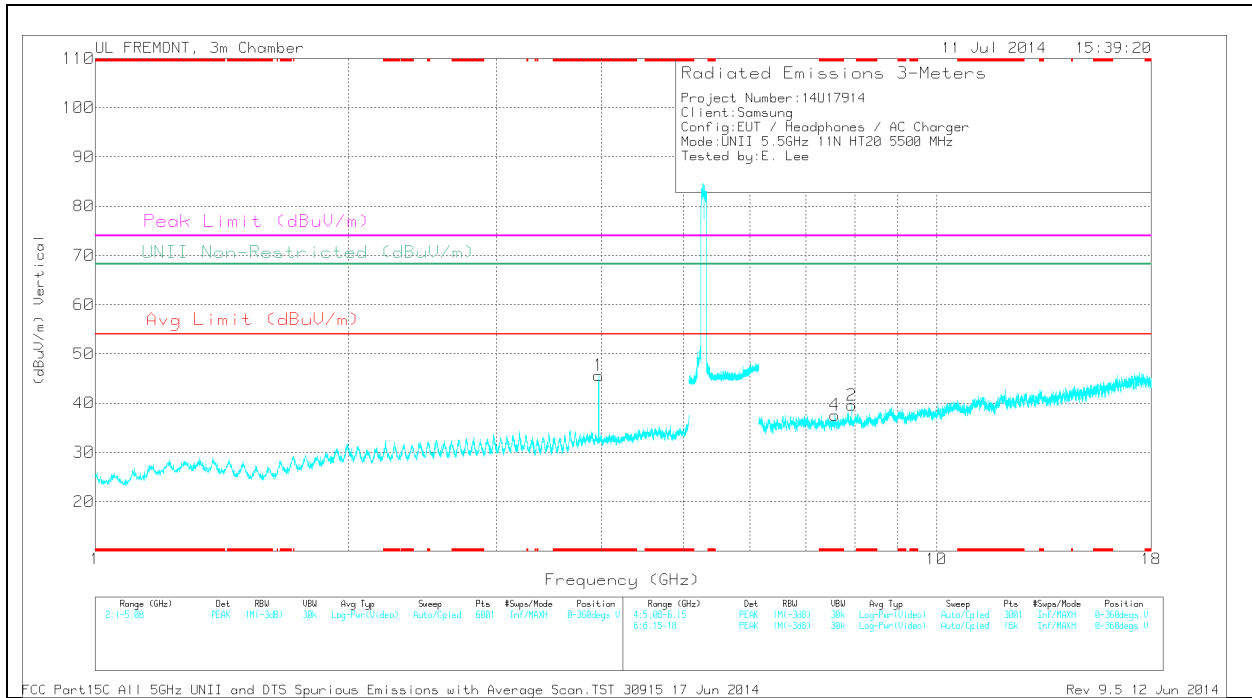
PK - Peak detector

HARMONICS AND SPURIOUS EMISSIONS



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

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.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.968	43.82	PK	33.3	-31.5	0	45.62	-	-	74	-28.38	-	-	0-360	200	V
5	* 11.067	28.8	PK	37.9	-24.9	0	41.8	-	-	74	-32.2	-	-	0-360	200	H
6	* 9.354	28.2	PK	36.4	-25.7	0	38.9	-	-	74	-35.1	-	-	0-360	100	H
4	* 7.57	30.47	PK	35.7	-28.6	0	37.57	-	-	74	-36.43	-	-	0-360	200	V
2	7.935	32.35	PK	35.8	-28.6	0	39.55	-	-	-	-	68.2	-28.65	0-360	200	V
3	8.569	29.75	PK	35.8	-26.2	0	39.35	-	-	-	-	68.2	-28.85	0-360	200	H

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

PK - Peak detector

Radiated Emissions

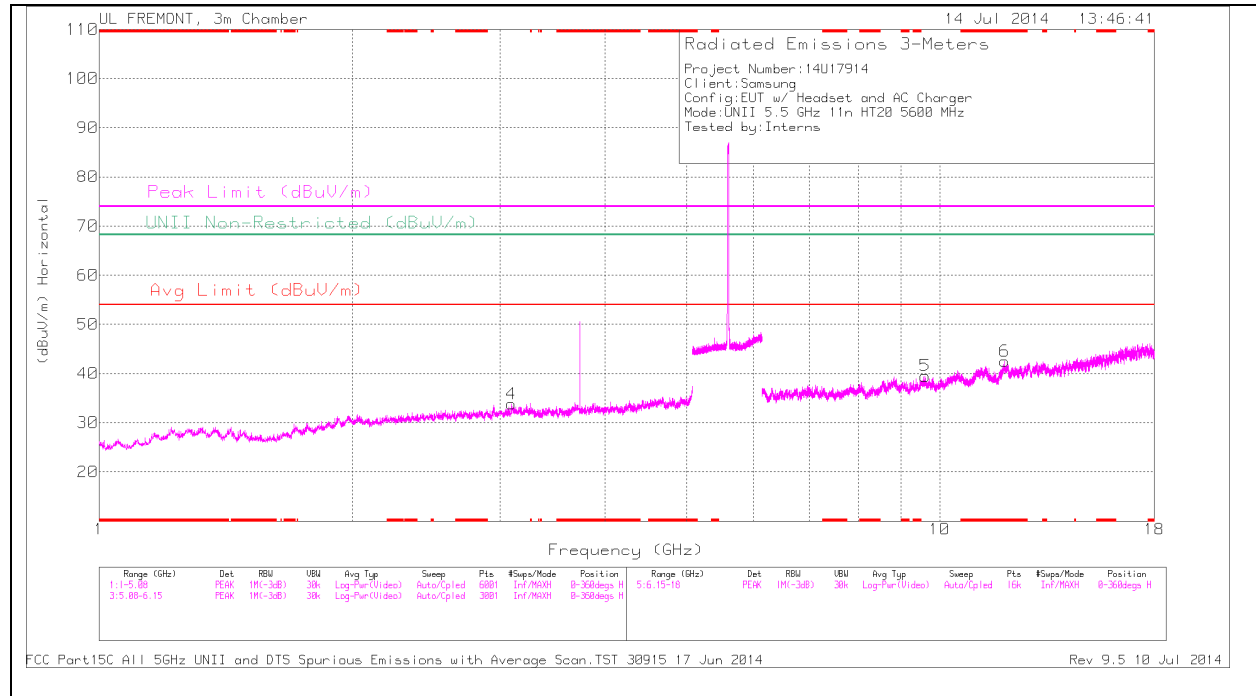
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.968	48.86	PK1	33.3	-31.5	0	50.66	-	-	74	-23.34	-	-	11	391	V
* 3.968	45.29	AD1	33.3	-31.5	.6	47.69	54	-6.31	-	-	-	-	11	391	V
7.935	38.95	PK1	35.8	-28.6	0	46.15	-	-	-	-	68.2	-22.05	11	200	V
7.935	28.73	AD1	35.8	-28.6	.6	36.53	-	-	-	-	-	-	11	200	V
8.57	38.41	PK1	35.8	-26.2	0	48.01	-	-	-	-	68.2	-20.19	11	200	H
8.571	26.58	AD1	35.8	-26.2	.6	36.78	-	-	-	-	-	-	11	200	H

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

PK1 - KDB789033 Method: Peak

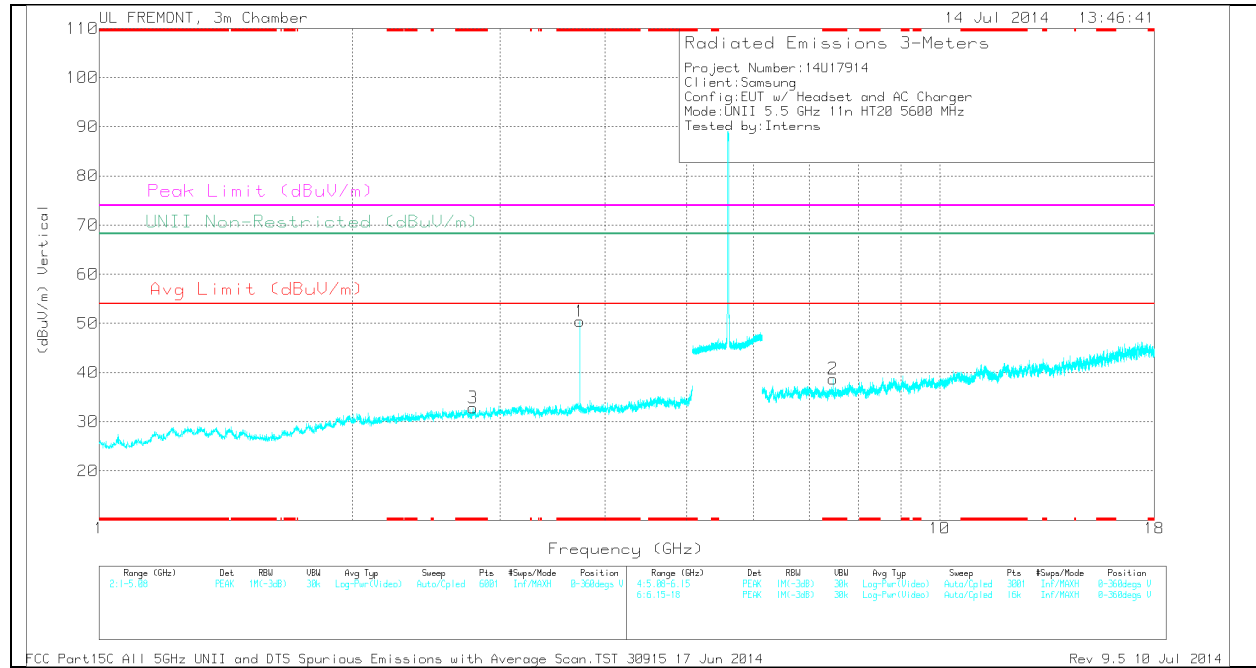
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL



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

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.

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.734	48.52	PK	33.2	-31.3	0	50.42	-	-	74	-23.58	-	-	0-360	100	V
3	* 2.785	32.52	PK	32.7	-32.4	0	32.82	-	-	74	-41.18	-	-	0-360	200	V
6	* 11.946	29.89	PK	39	-26.4	0	42.49	-	-	74	-31.51	-	-	0-360	100	H
2	* 7.467	31.72	PK	35.7	-28.7	0	38.72	-	-	74	-35.28	-	-	0-360	200	V
4	3.096	32.81	PK	33.1	-32.1	0	33.81	-	-	-	-	68.2	-34.39	0-360	200	H
5	9.609	27.92	PK	36.7	-25.1	0	39.52	-	-	-	-	68.2	-28.68	0-360	200	H

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

PK - Peak detector

Radiated Emissions

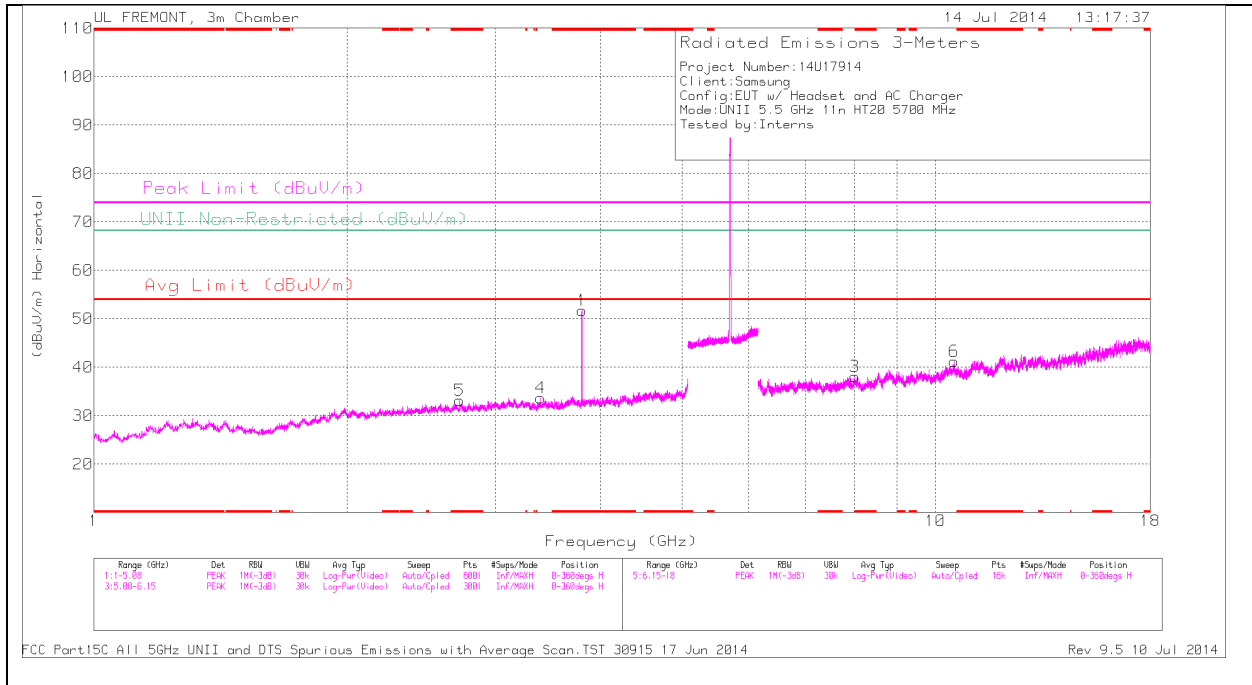
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.733	52.56	PK1	33.2	-31.3	0	54.46	-	-	74	-19.54	-	-	280	293	V
* 3.733	50.3	AD1	33.2	-31.3	.6	52.44	54	-1.56	-	-	-	-	280	293	V
* 7.467	40.82	PK1	35.7	-28.7	0	47.82	-	-	74	-26.18	-	-	137	286	V
* 7.467	30.79	AD1	35.7	-28.7	.6	38.03	54	-15.97	-	-	-	-	137	286	V

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

PK1 - KDB789033 Method: Peak

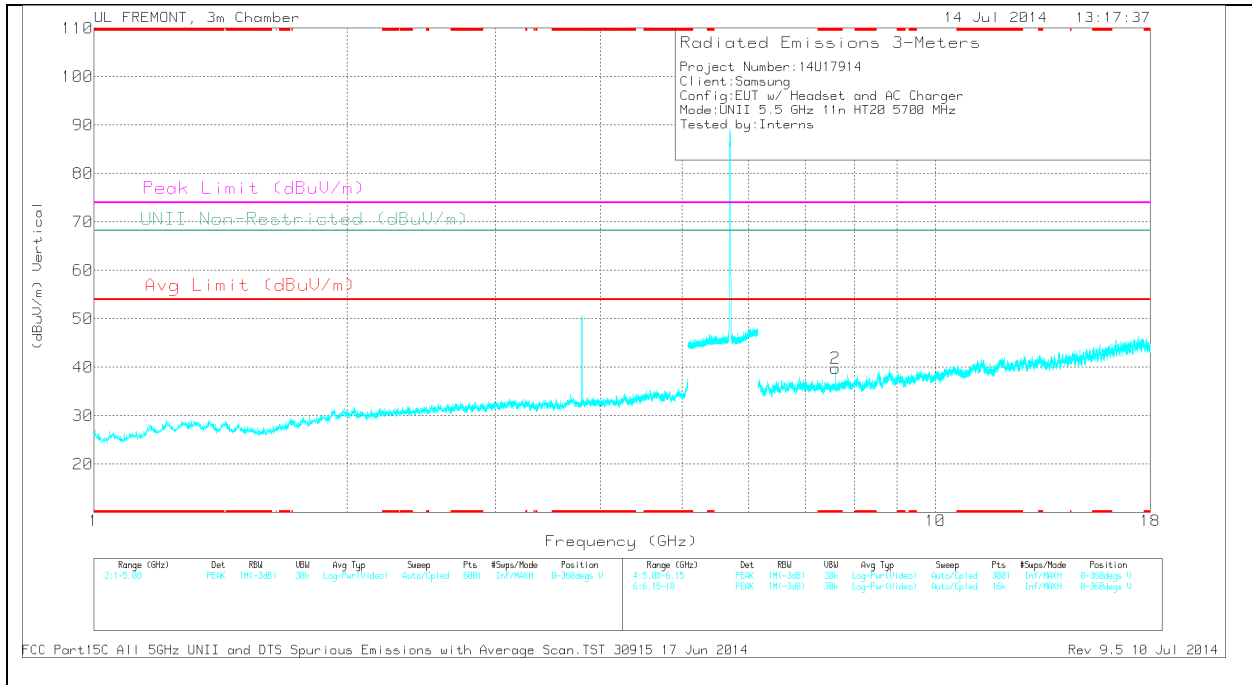
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL



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

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.

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.8	50.17	PK	33.2	-31.6	0	51.77	-	-	74	-22.23	-	-	0-360	200	H
5	* 2.721	32.81	PK	32.6	-32.2	0	33.21	-	-	74	-40.79	-	-	0-360	200	H
2	* 7.6	32.54	PK	35.7	-28.4	0	39.84	-	-	74	-34.16	-	-	0-360	200	V
4	3.397	32.56	PK	32.9	-31.8	0	33.66	-	-	-	-	68.2	-34.54	0-360	200	H
3	8.021	30.25	PK	35.7	-27.8	0	38.15	-	-	-	-	68.2	-30.05	0-360	100	H
6	10.519	28.75	PK	37.5	-25	0	41.25	-	-	-	-	68.2	-26.95	0-360	200	H

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.8	53.29	PK1	33.2	-31.6	0	54.89	-	-	74	-19.11	-	-	91	301	H
* 3.8	51.13	AD1	33.2	-31.6	.6	52.97	54	-1.03	-	-	-	-	91	301	H
* 7.6	42.45	PK1	35.7	-28.4	0	49.75	-	-	74	-24.25	-	-	328	298	V
* 7.6	34.96	AD1	35.7	-28.4	.6	42.5	54	-11.5	-	-	-	-	328	298	V

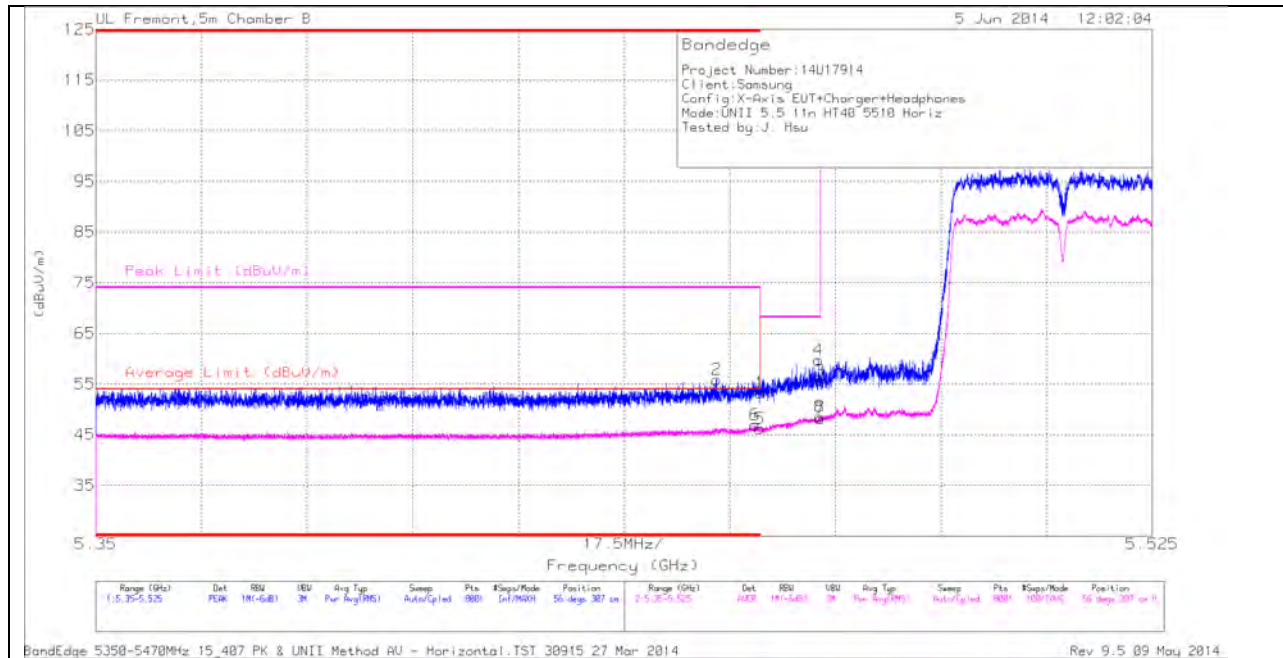
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

11.3.3. 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

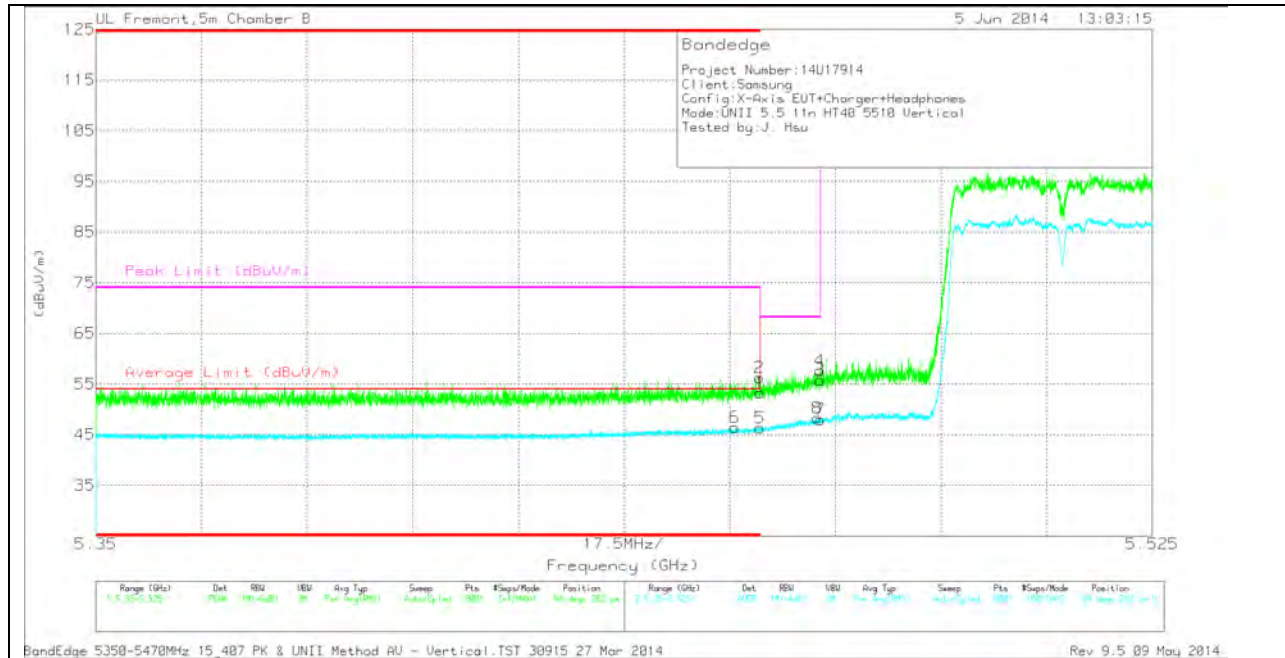
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.453	41.52	PK	34.5	-20.1	0	55.92	-	-	74	-18.08	56	307	H
6	* 5.459	31.48	RMS	34.5	-20.1	1.1	46.98	54	-7.02	-	-	56	307	H
1	* 5.46	38.85	PK	34.5	-20.1	0	53.25	-	-	74	-20.75	56	307	H
5	* 5.46	30.66	RMS	34.5	-20.1	1.1	46.16	54	-7.84	-	-	56	307	H
3	5.47	41.12	PK	34.5	-20	0	55.62	-	-	68.2	-12.58	56	307	H
4	5.47	45.18	PK	34.5	-20	0	59.68	-	-	68.2	-8.52	56	307	H
7	5.47	32.63	RMS	34.5	-20	1.1	48.23	-	-	-	-	56	307	H
8	5.47	32.97	RMS	34.5	-20	1.1	48.57	-	-	-	-	56	307	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitter/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
6	* 5.456	30.92	RMS	34.5	-20.1	1.1	46.42	54	-7.58	-	-	94	282	V
1	* 5.46	38.88	PK	34.5	-20.1	0	53.28	-	-	74	-20.72	94	282	V
2	* 5.46	41.82	PK	34.5	-20.1	0	56.22	-	-	74	-17.78	94	282	V
5	* 5.46	30.79	RMS	34.5	-20.1	1.1	46.29	54	-7.71	-	-	94	282	V
8	5.469	32.7	RMS	34.5	-20	1.1	48.3	-	-	-	-	94	282	V
3	5.47	41.32	PK	34.5	-20	0	55.82	-	-	68.2	-12.38	94	282	V
4	5.47	43.17	PK	34.5	-20	0	57.67	-	-	68.2	-10.53	94	282	V
7	5.47	32.34	RMS	34.5	-20	1.1	47.94	-	-	-	-	94	282	V

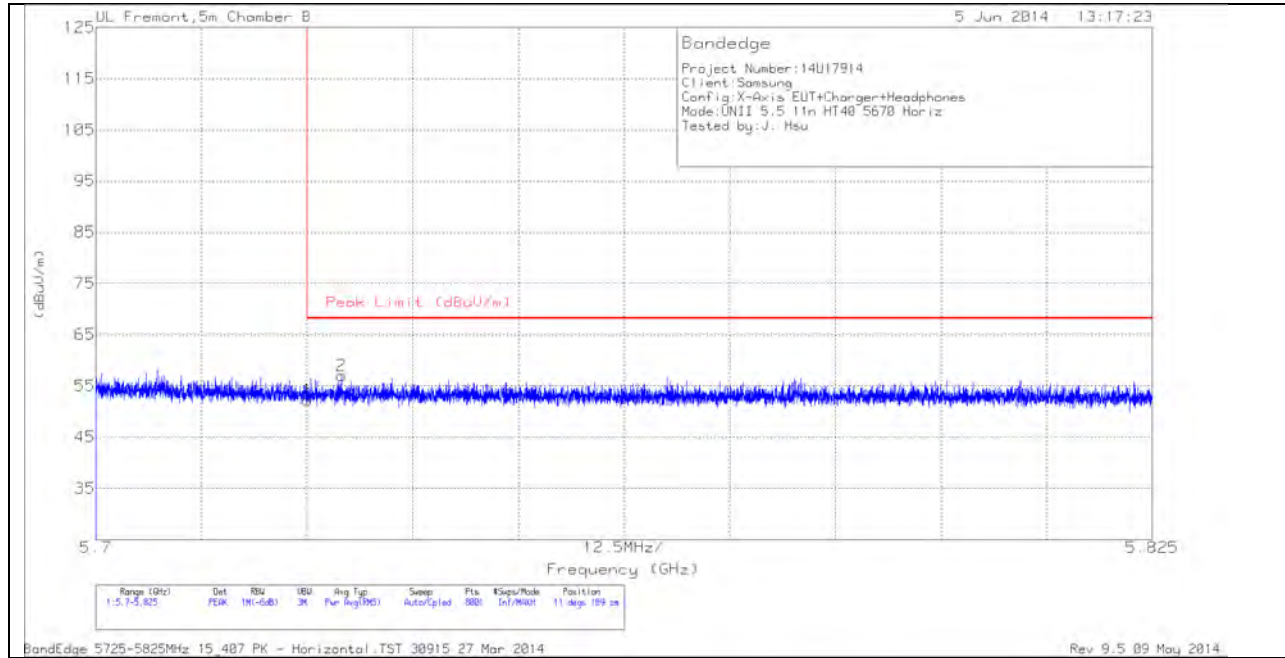
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT

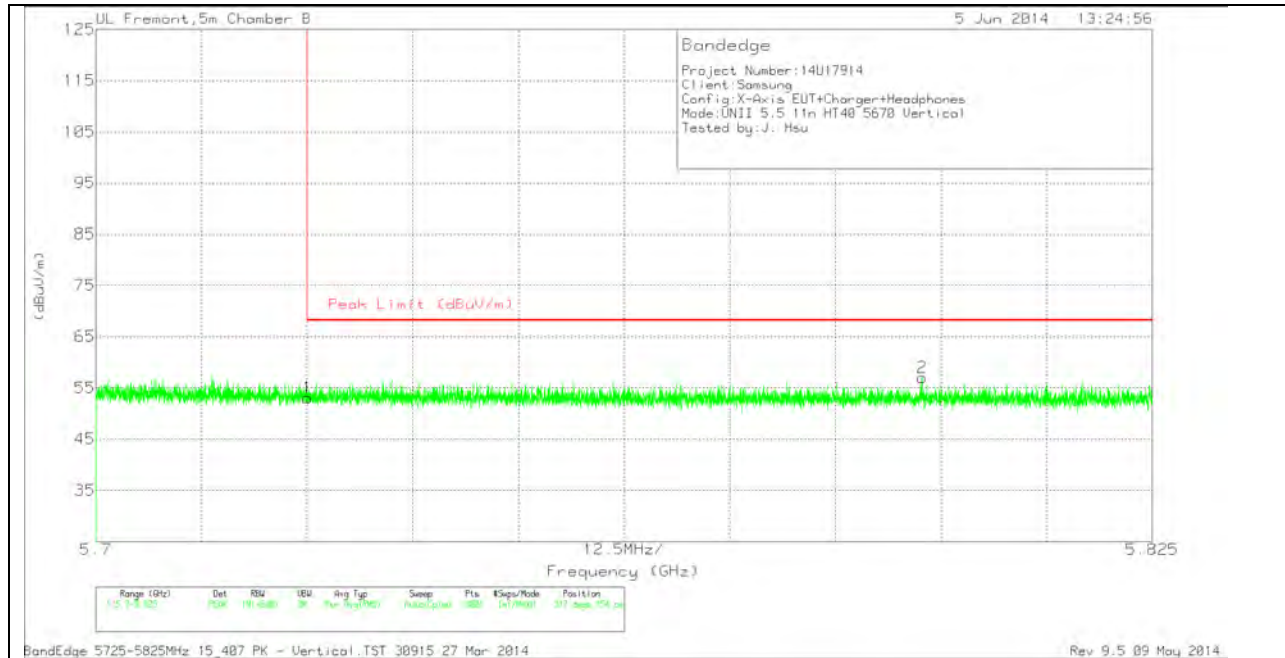


HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F Itr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.45	PK	34.6	-19.9	0	52.15	68.2	-16.05	11	189	H
2	5.729	42.2	PK	34.6	-19.8	0	57	68.2	-11.2	11	189	H

PK - Peak detector

VERTICAL PEAK AND AVERAGE PLOT

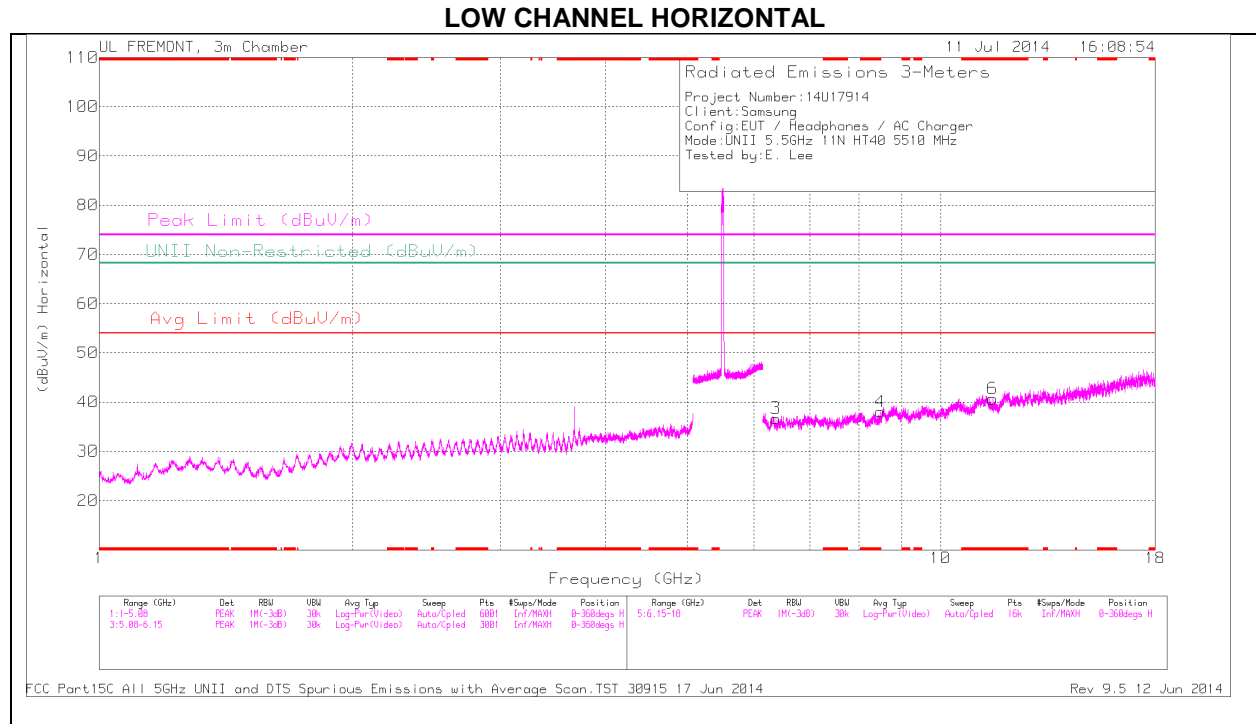


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	38.35	PK	34.6	-19.9	0	53.05	68.2	-15.15	317	154	V
2	5.798	42.04	PK	34.7	-19.7	0	57.04	68.2	-11.16	317	154	V

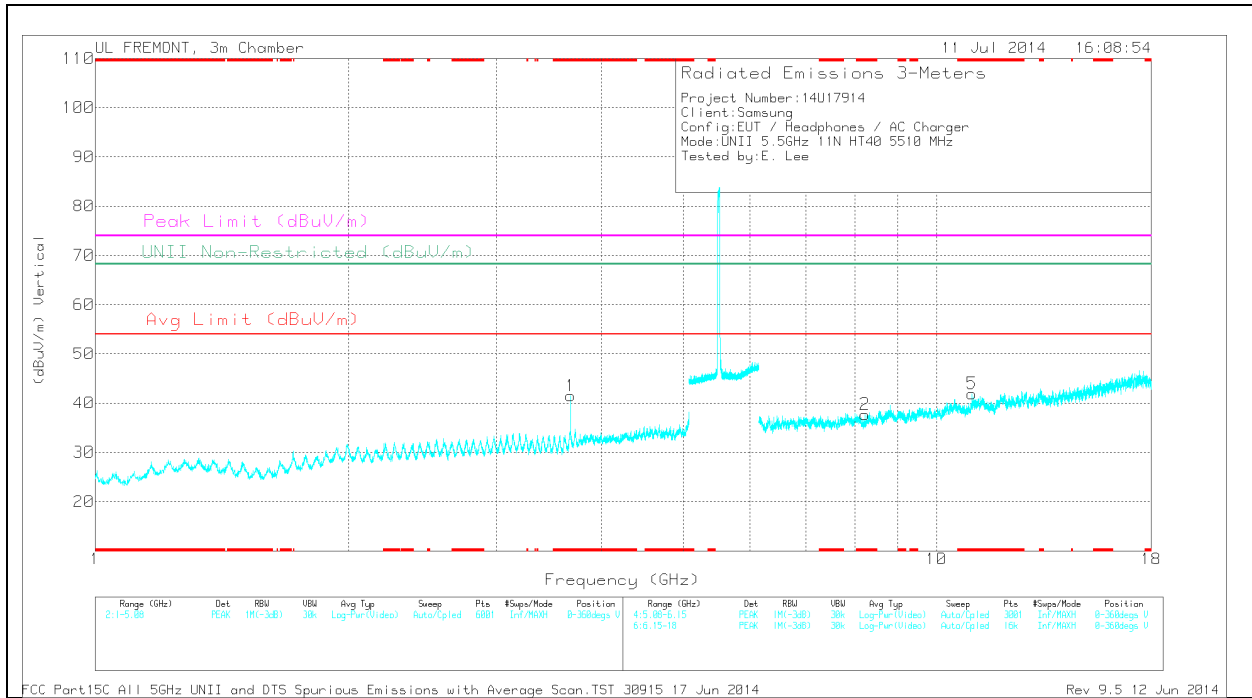
PK - Peak detector

HARMONICS AND SPURIOUS EMISSIONS



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

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.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.673	38.86	PK	33.2	-30.6	0	41.46	-	-	74	-32.54	-	-	0-360	200	V
4	* 8.478	30.34	PK	35.8	-28.1	0	38.04	-	-	74	-35.96	-	-	0-360	200	H
6	* 11.533	28.68	PK	38.3	-26.3	0	40.68	-	-	74	-33.32	-	-	0-360	100	H
2	* 8.218	30.68	PK	35.8	-28.8	0	37.68	-	-	74	-36.32	-	-	0-360	100	V
5	* 11.019	29.53	PK	37.9	-25.5	0	41.93	-	-	74	-32.07	-	-	0-360	100	V
3	6.372	30.88	PK	35.4	-29.6	0	36.68	-	-	-	-	68.2	-31.52	0-360	200	H

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

PK - Peak detector

Radiated Emissions

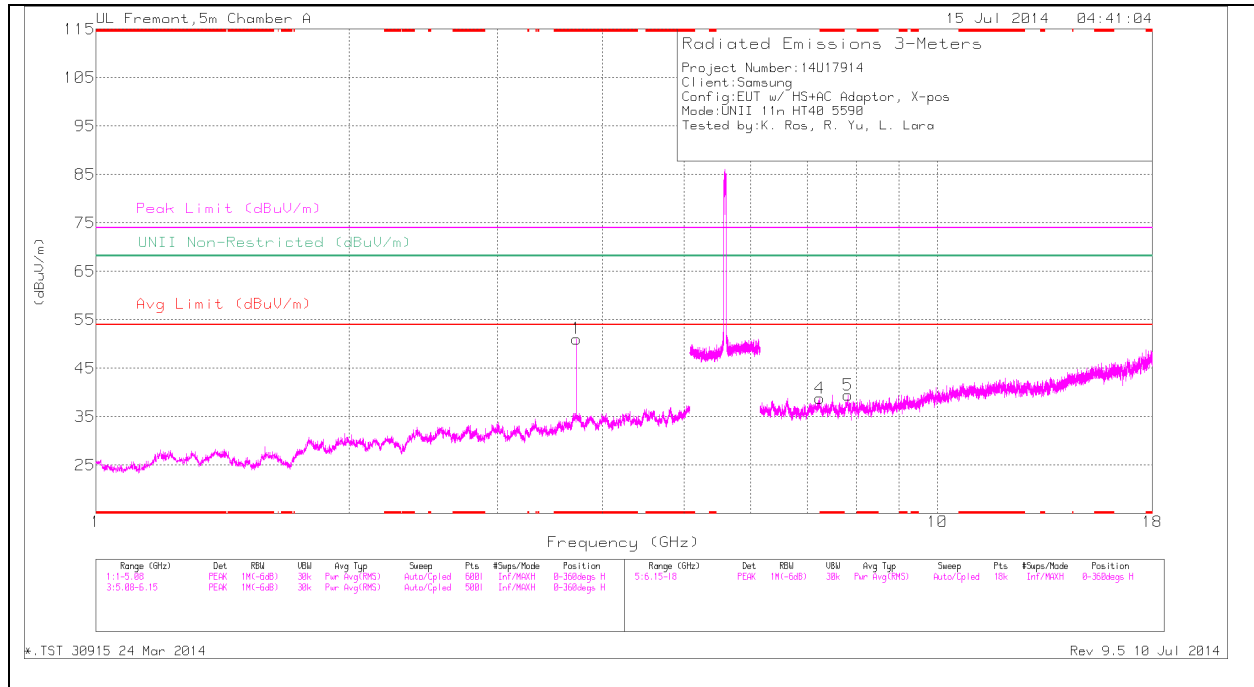
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.673	45.9	PK1	33.2	-30.6	0	48.5	-	-	74	-25.5	-	-	6	306	V
* 3.673	40.46	AD1	33.2	-30.6	1.1	44.16	54	-9.84	-	-	-	-	6	306	V

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

PK1 - KDB789033 Method: Peak

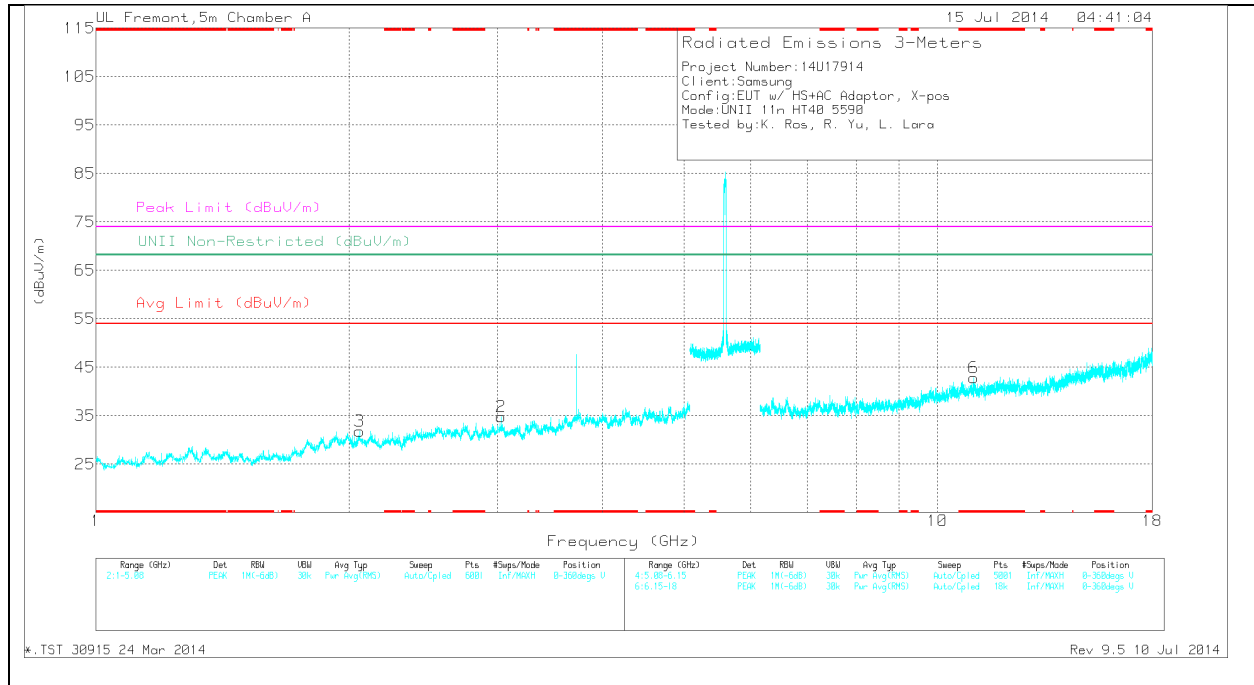
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL



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

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.

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.727	47.79	PK	33.4	-30.1	0	51.09	-	-	74	-22.91	-	-	0-360	201	H
6	* 11.046	27.28	PK	37.7	-22.1	0	42.88	-	-	74	-31.12	-	-	0-360	100	V
3	2.057	34.82	PK	31.9	-34.9	0	31.82	-	-	-	-	68.2	-36.38	0-360	201	V
2	3.032	33.87	PK	32.8	-31.9	0	34.77	-	-	-	-	68.2	-33.43	0-360	201	V
4	7.245	28.88	PK	35.2	-25.3	0	38.78	-	-	-	-	68.2	-29.42	0-360	100	H
5	7.825	28.65	PK	35.5	-24.7	0	39.45	-	-	-	-	68.2	-28.75	0-360	201	H

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

PK - Peak detector

Radiated Emissions

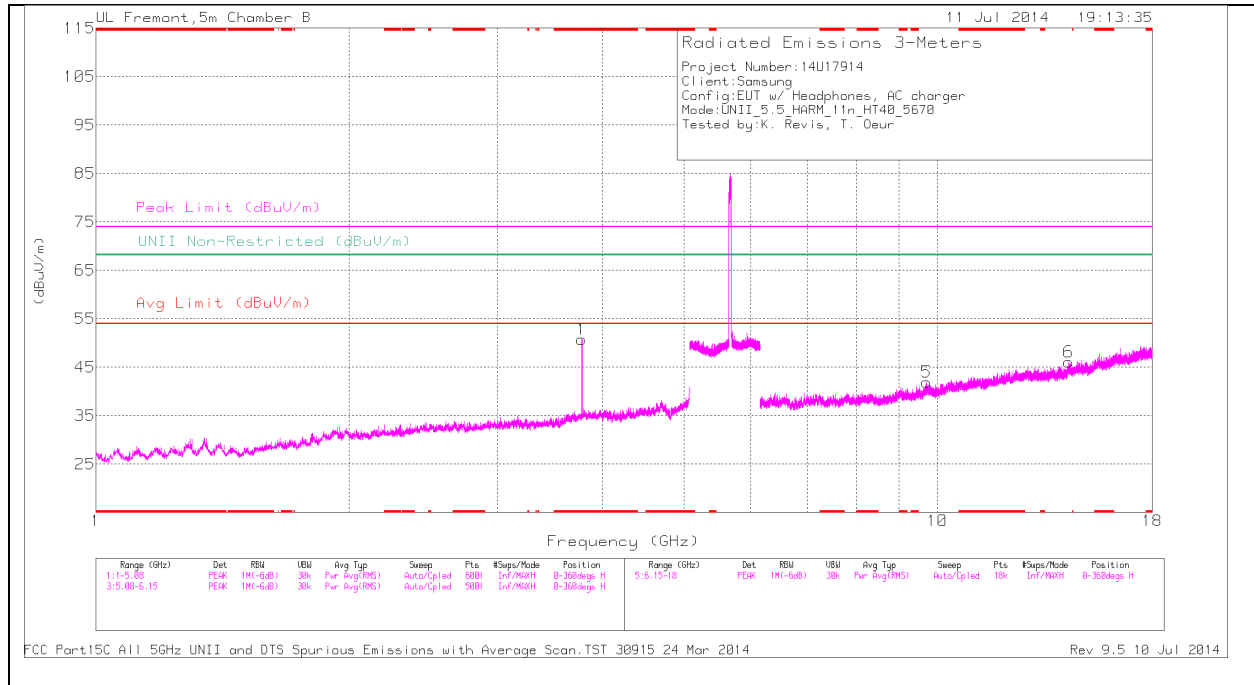
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.727	50.4	PK1	33.4	-30.1	0	53.7	-	-	74	-20.3	-	-	113	268	H
* 3.727	48.38	AD1	33.4	-30.1	1.06	52.74	54	-1.26	-	-	-	-	113	268	H
* 11.044	33.8	PK1	37.7	-22.3	0	49.2	-	-	74	-24.8	-	-	113	100	V
2.056	42.4	PK1	31.9	-34.9	0	39.4	-	-	-	-	68.2	-28.8	113	200	V
3.033	40.34	PK1	32.8	-31.8	0	41.34	-	-	-	-	68.2	-26.86	113	200	V
7.245	35.61	PK1	35.2	-25.3	0	45.51	-	-	-	-	68.2	-22.69	113	100	H
7.826	35.91	PK1	35.5	-24.8	0	46.61	-	-	-	-	68.2	-21.59	113	202	H

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

PK1 - KDB789033 Method: Peak

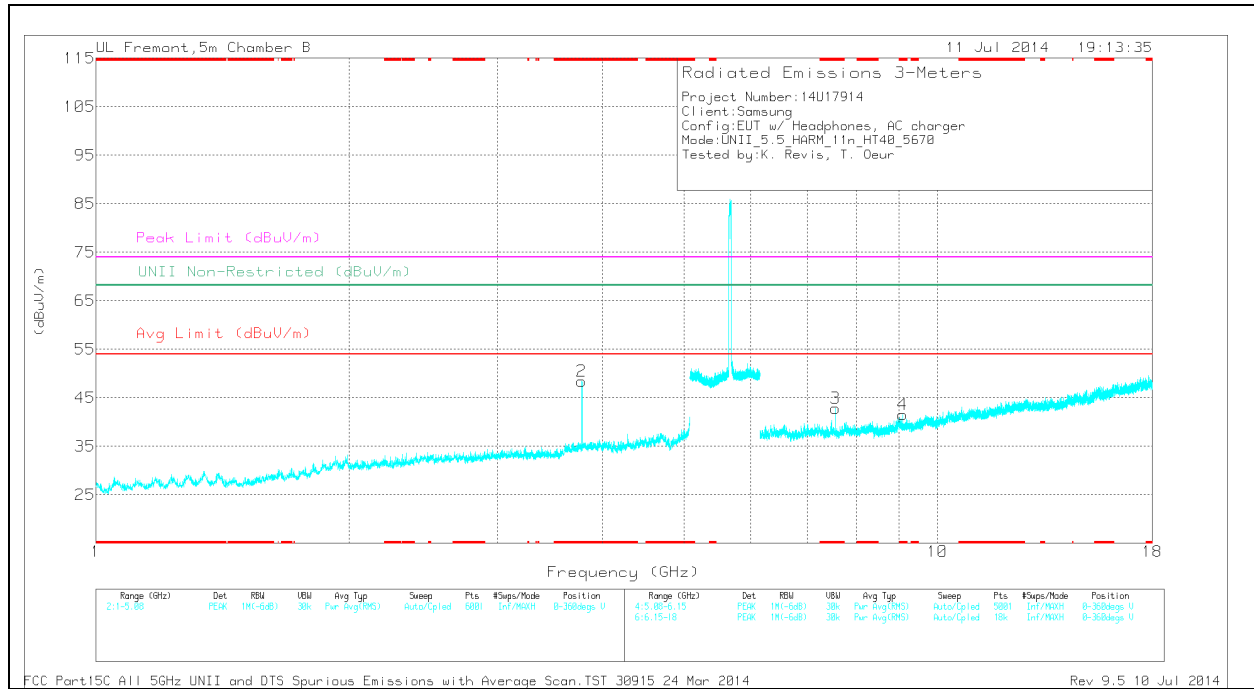
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL



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

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.

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.78	48.08	PK	33.6	-30.9	0	50.78	-	-	74	-23.22	-	-	0-360	208	H
2	* 3.78	45.7	PK	33.6	-30.9	0	48.4	-	-	74	-25.6	-	-	0-360	193	V
3	* 7.56	33.99	PK	35.6	-26.7	0	42.89	-	-	74	-31.11	-	-	0-360	99	V
4	* 9.099	30.29	PK	36.3	-25	0	41.59	-	-	74	-32.41	-	-	0-360	195	V
5	9.709	28.79	PK	36.9	-23.7	0	41.99	-	-	-	-	68.2	-26.21	0-360	99	H
6	14.314	27.13	PK	39	-20	0	46.13	-	-	-	-	68.2	-22.07	0-360	206	H

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.78	47.06	PK1	33.6	-30.9	0	49.76	-	-	74	-24.24	-	-	77	214	H
* 3.78	42.89	AD1	33.6	-30.9	1.06	46.65	54	-7.35	-	-	-	-	77	214	H
* 3.78	52.03	PK1	33.6	-30.9	0	54.73	-	-	74	-19.27	-	-	253	313	V
* 3.78	49.92	AD1	33.6	-30.9	1.06	53.68	54	-3.2	-	-	-	-	253	313	V
* 7.56	40.13	PK1	35.6	-26.7	0	49.03	-	-	74	-24.97	-	-	262	341	V
* 7.56	32.25	AD1	35.6	-26.7	1.06	42.21	54	-11.79	-	-	-	-	262	341	V
* 9.098	36.88	PK1	36.3	-25	0	48.18	-	-	74	-25.82	-	-	262	190	V
9.711	35.54	PK1	36.9	-23.7	0	48.74	-	-	-	-	68.2	-19.46	262	100	H
14.312	34.17	PK1	39	-20	0	53.17	-	-	-	-	68.2	-15.03	262	214	H

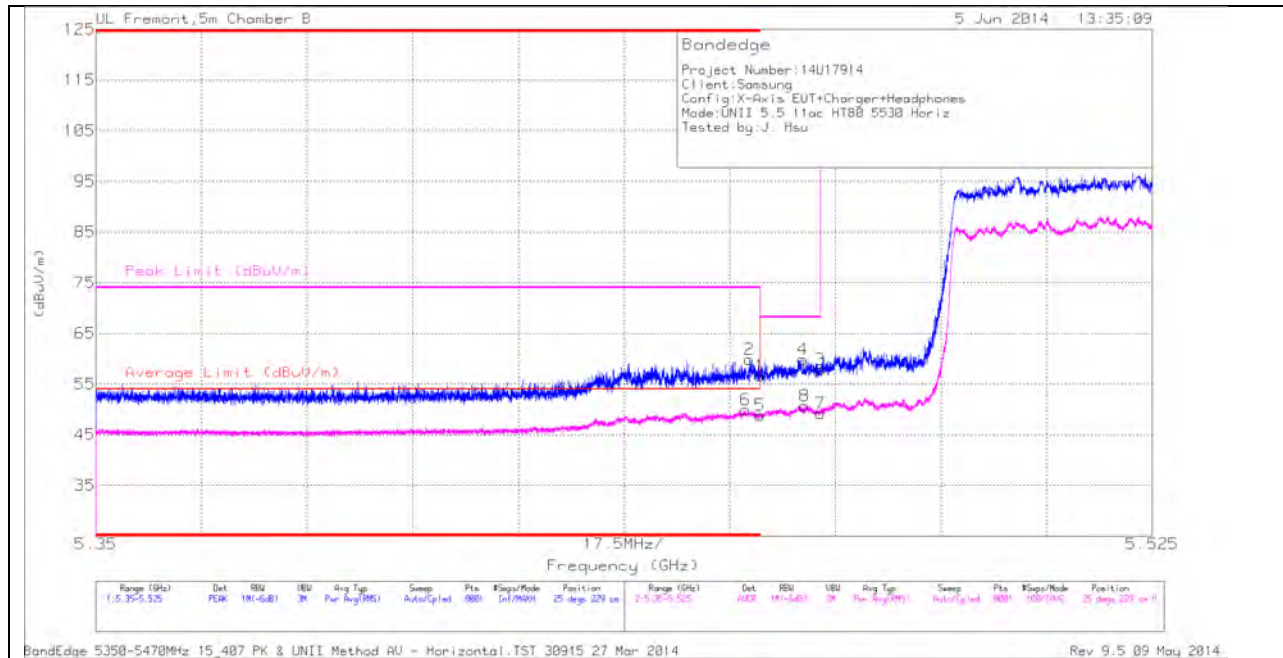
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

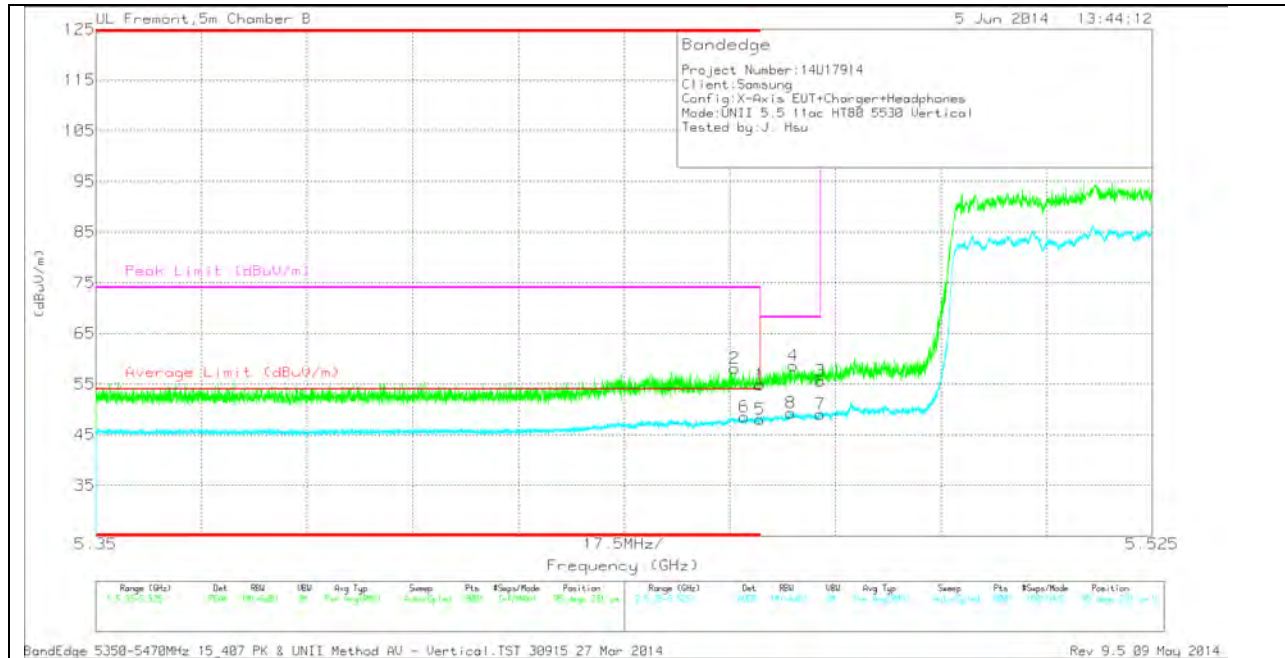
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	42.26	PK	34.5	-20.1	0	56.66	-	-	74	-17.34	25	229	H
2	* 5.458	45.4	PK	34.5	-20.1	0	59.8	-	-	74	-14.2	25	229	H
5	* 5.46	32.66	RMS	34.5	-20.1	1.8	48.86	54	-5.14	-	-	25	229	H
6	* 5.458	33.71	RMS	34.5	-20.1	1.8	49.91	54	-4.09	-	-	25	229	H
4	5.467	45.48	PK	34.5	-20.1	0	59.88	-	-	68.2	-8.32	25	229	H
8	5.467	34.46	RMS	34.5	-20.1	1.8	50.66	-	-	-	-	25	229	H
3	5.47	43.4	PK	34.5	-20	0	57.9	-	-	68.2	-10.3	25	229	H
7	5.47	32.88	RMS	34.5	-20	1.8	49.18	-	-	-	-	25	229	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit 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	40.54	PK	34.5	-20.1	0	54.94	-	-	74	-19.06	95	231	V
2	* 5.456	43.76	PK	34.5	-20.1	0	58.16	-	-	74	-15.84	95	231	V
5	* 5.46	31.86	RMS	34.5	-20.1	1.8	48.06	54	-5.94	-	-	95	231	V
6	* 5.457	32.34	RMS	34.5	-20.1	1.8	48.54	54	-5.46	-	-	95	231	V
8	5.465	33.15	RMS	34.5	-20.1	1.8	49.35	-	-	-	-	95	231	V
4	5.466	44.25	PK	34.5	-20.1	0	58.65	-	-	68.2	-9.55	95	231	V
3	5.47	41.16	PK	34.5	-20	0	55.66	-	-	68.2	-12.54	95	231	V
7	5.47	32.78	RMS	34.5	-20	1.8	49.08	-	-	-	-	95	231	V

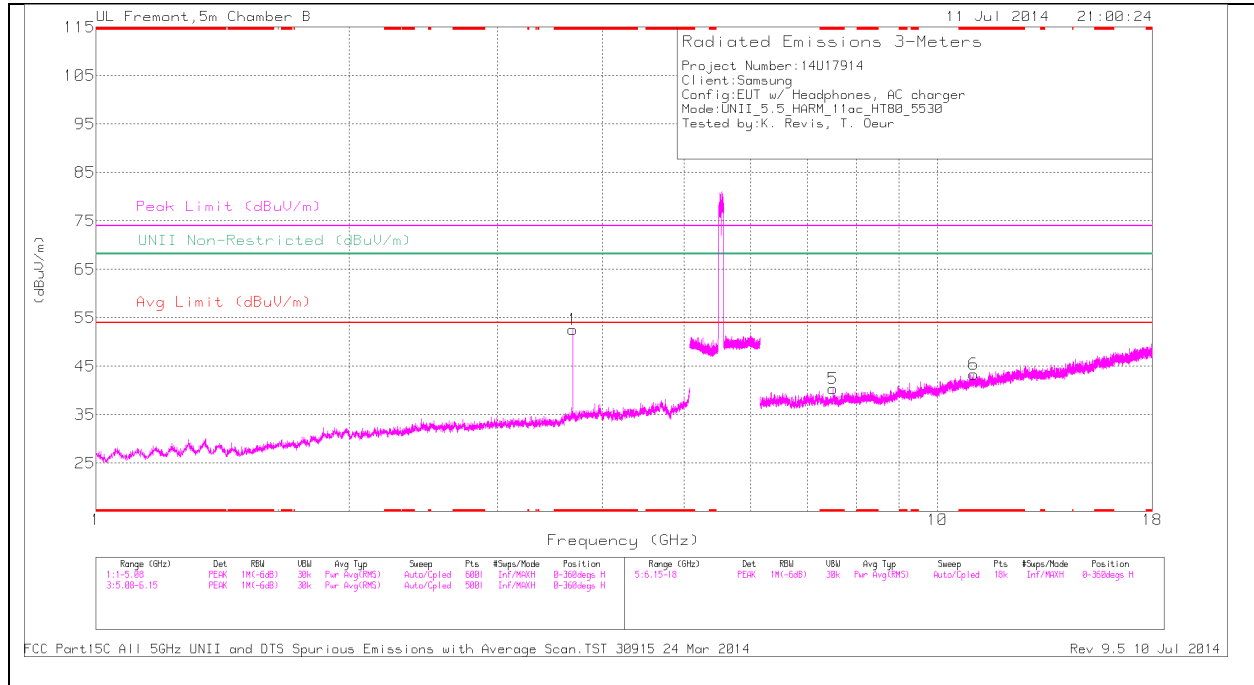
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

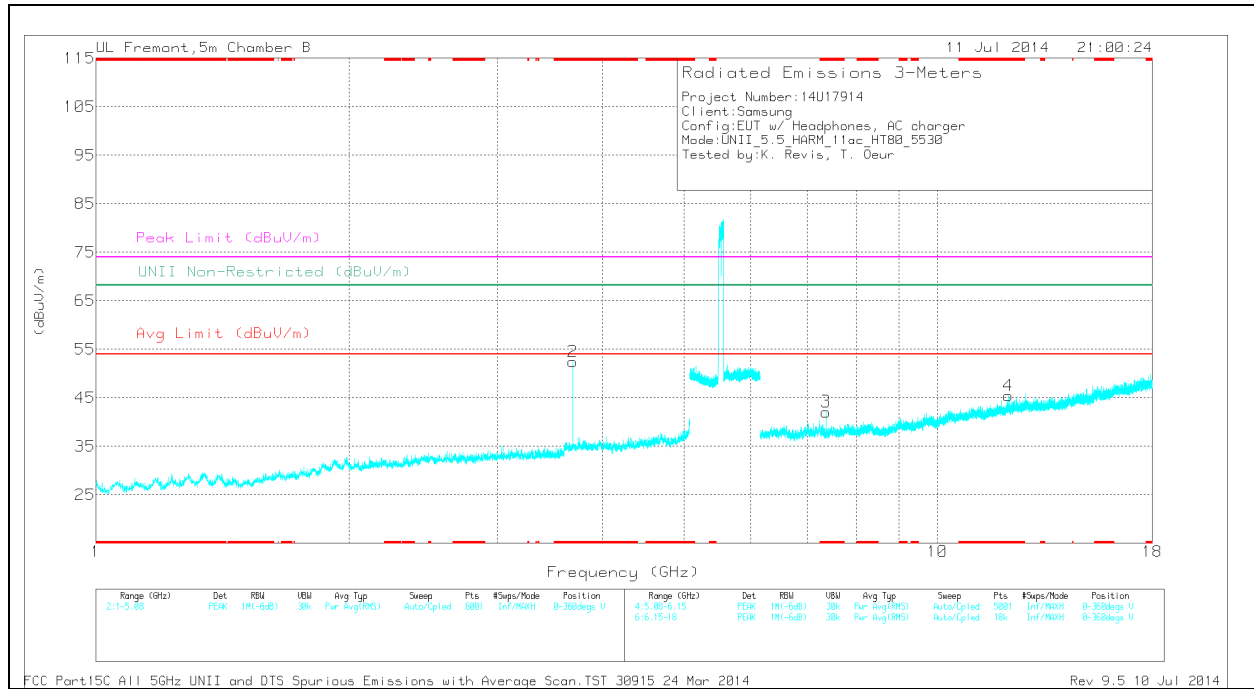
HARMONICS AND SPURIOUS EMISSIONS

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.

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.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.687	50.55	PK	33.3	-31.3	0	52.55	-	-	74	-21.45	-	-	0-360	207	H
2	* 3.687	50.4	PK	33.3	-31.3	0	52.4	-	-	74	-21.6	-	-	0-360	193	V
5	* 7.519	31.1	PK	35.6	-26.3	0	40.4	-	-	74	-33.6	-	-	0-360	99	H
6	* 11.04	28.02	PK	37.8	-22.4	0	43.42	-	-	74	-30.58	-	-	0-360	99	H
3	* 7.373	34.63	PK	35.6	-28.1	0	42.13	-	-	74	-31.87	-	-	0-360	193	V
4	* 12.144	27.9	PK	38.9	-21.3	0	45.5	-	-	74	-28.5	-	-	0-360	193	V

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

PK - Peak detector

Radiated Emissions

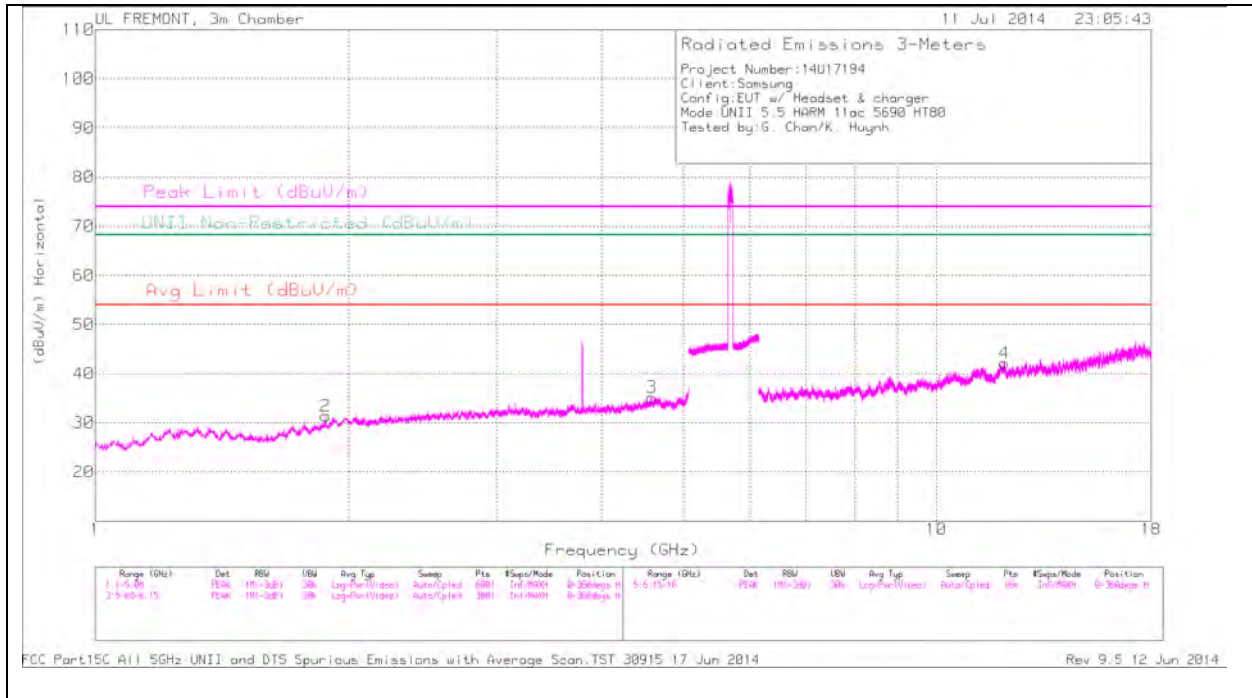
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.687	51.8	PK1	33.3	-31.3	0	53.8	-	-	74	-20.2	-	-	146	230	H
* 3.687	49.52	AD1	33.3	-31.3	1.82	53.34	54	-66	-	-	-	-	146	230	H
* 3.687	49.78	PK1	33.3	-31.3	0	51.78	-	-	74	-22.22	-	-	42	256	V
* 3.687	46.9	AD1	33.3	-31.3	1.82	50.72	54	-3.28	-	-	-	-	42	256	V
* 7.518	37.84	PK1	35.6	-26.3	0	47.14	-	-	74	-26.86	-	-	285	165	H
* 11.041	34.55	PK1	37.8	-22.4	0	49.95	-	-	74	-24.05	-	-	285	100	H
* 7.375	38.29	PK1	35.6	-28.1	0	45.79	-	-	74	-28.21	-	-	107	273	V
* 7.373	27.26	AD1	35.6	-28.1	1.82	36.58	54	-17.42	-	-	-	-	107	273	V
* 12.145	33.72	PK1	38.9	-21.3	0	51.32	-	-	74	-22.68	-	-	122	224	V

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

PK1 - KDB789033 Method: Peak

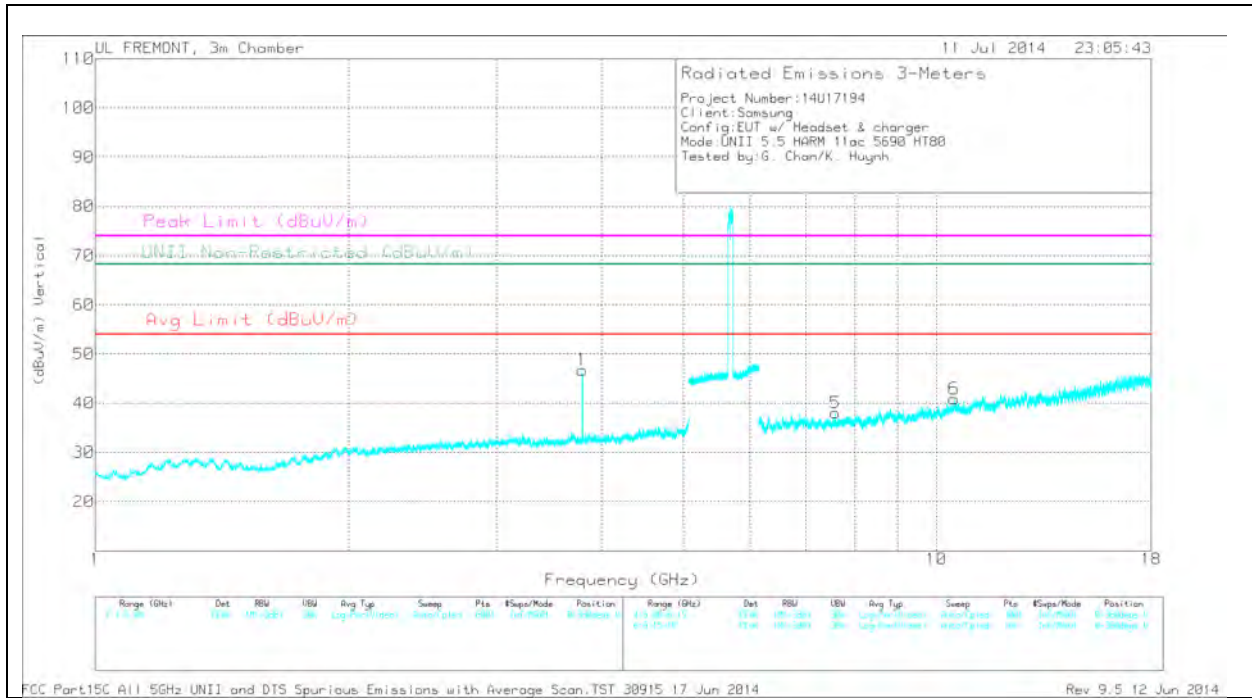
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL



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

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.

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	1.88	33.38	PK	31	-33	0	31.38	-	-	-	-	68.2	-36.82	0-360	200	H
1	3.793	45.08	PK	33.2	-31.5	0	46.78	-	-	74	-27.22	-	-	0-360	100	V
3	4.588	31.65	PK	34	-30.5	0	35.15	-	-	74	-38.85	-	-	0-360	100	H
5	7.586	30.92	PK	35.7	-28.6	0	38.02	-	-	74	-35.98	-	-	0-360	100	V
6	10.493	29.09	PK	37.5	-25.7	0	40.89	-	-	-	-	68.2	-27.31	0-360	200	V
4	12.058	29.32	PK	39.1	-26.3	0	42.12	-	-	74	-31.88	-	-	0-360	100	H

PK - Peak detector

Radiated Emissions

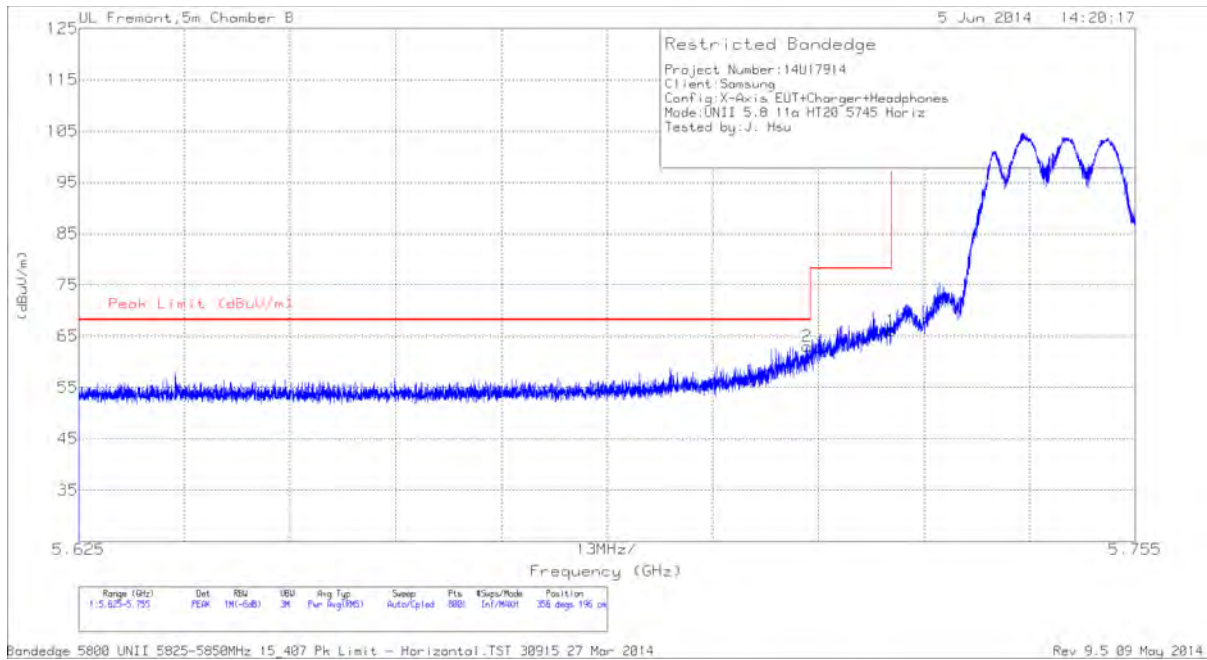
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.878	41.61	PK1	31	-33	0	39.61	-	-	-	-	68.2	-28.59	287	200	H
3.793	49.2	PK1	33.2	-31.5	0	50.9	-	-	74	-23.1	-	-	287	322	V
3.793	46.14	AD1	33.2	-31.5	1.84	49.33	54	-4.67	-	-	-	-	287	322	V
4.586	40.88	PK1	34	-30.4	0	44.48	-	-	74	-29.52	-	-	287	100	H
7.587	39.4	PK1	35.7	-28.6	0	46.5	-	-	74	-27.5	-	-	287	100	V
10.494	37.45	PK1	37.5	-25.7	0	49.25	-	-	-	-	68.2	-18.95	287	200	V
12.058	38	PK1	39.1	-26.4	0	50.7	-	-	74	-23.3	-	-	287	100	H

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

11.4. 5.8 GHz

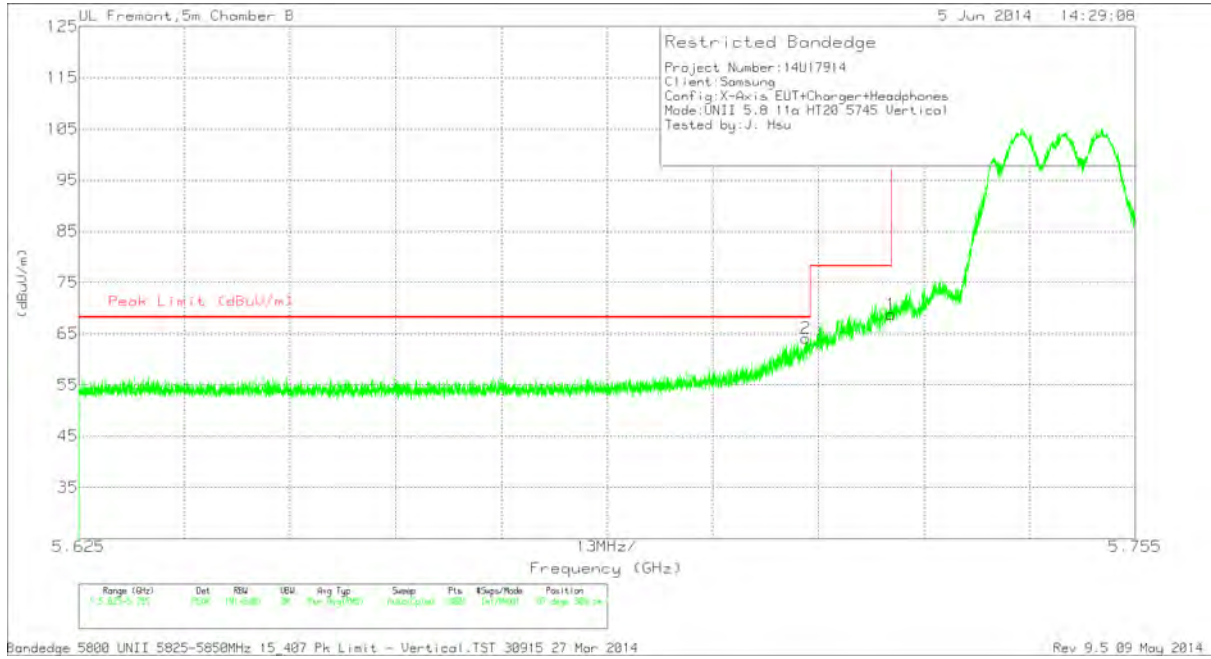
11.4.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.8 GHz BAND HARMONICS AND SPURIOUS EMISSIONS



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.715	48.54	PK	34.5	-20	0	63.04	68.2	-5.16	356	196	H
1	5.725	51.33	PK	34.6	-19.9	0	66.03	78.2	-12.17	356	196	H

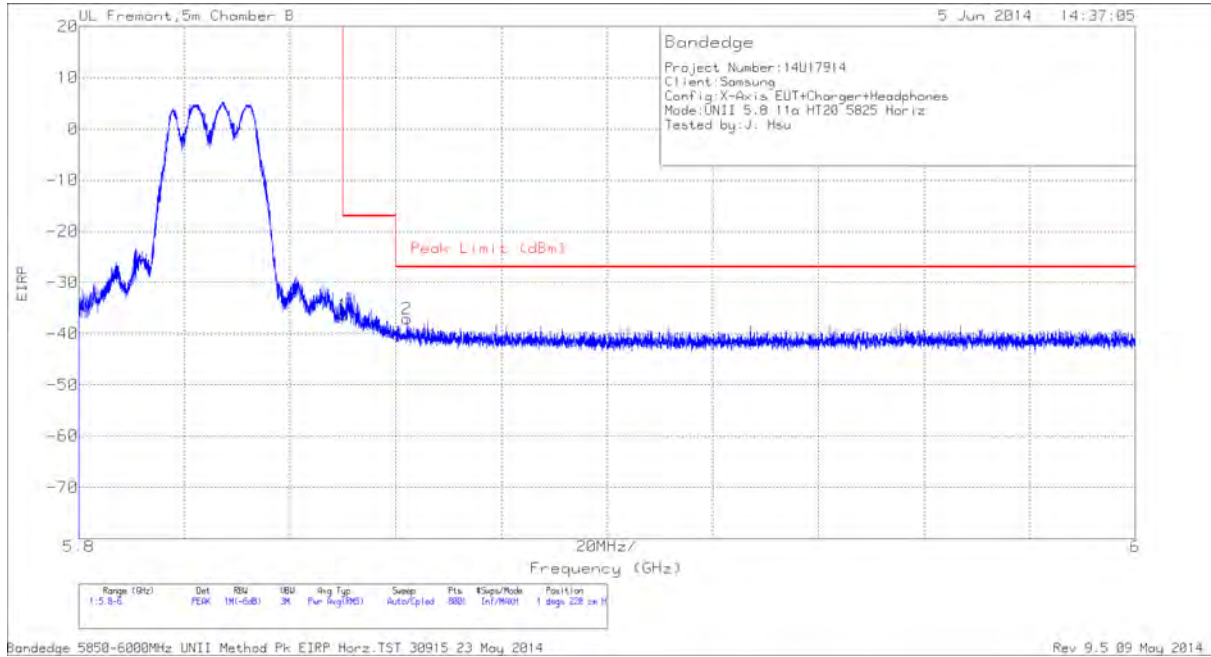
PK - Peak detector



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.714	49.62	PK	34.5	-20	0	64.12	68.2	-4.08	87	309	V
1	5.725	54.06	PK	34.6	-19.9	0	68.76	78.2	-9.44	87	309	V

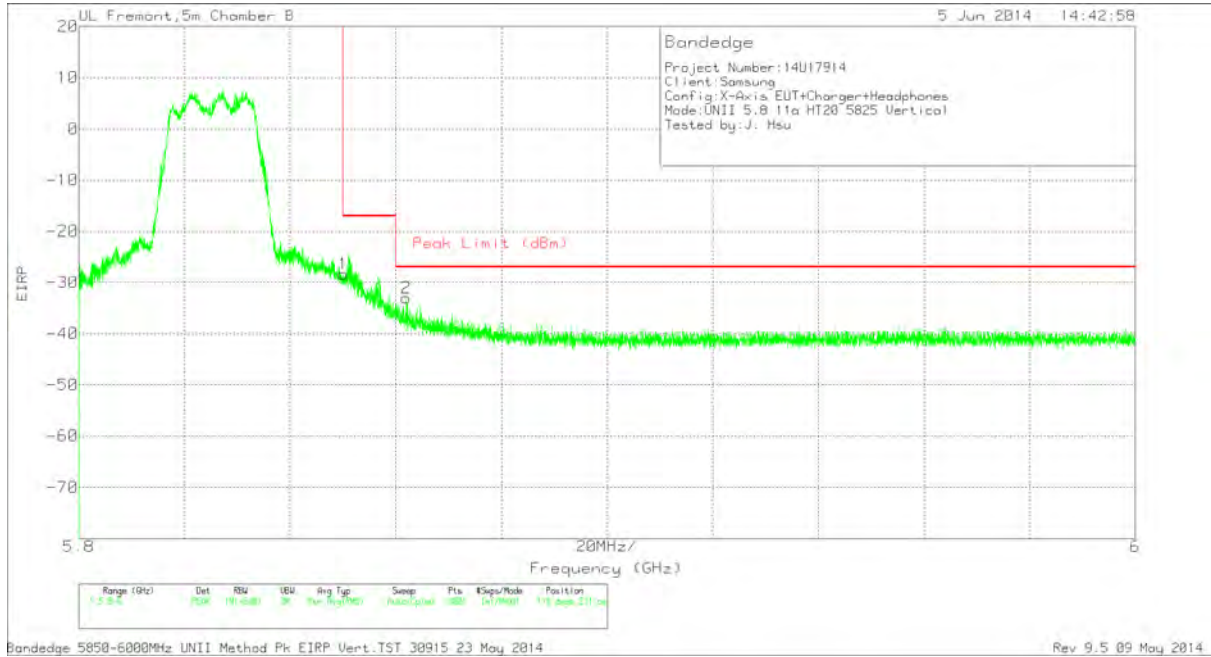
PK - Peak detector



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT345 (dB/m)	Amp/Cb/ Ftr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-63.19	PK	34.8	-19.8	11.8	0	-36.39	-17	-19.39	1	228	H
2	5.862	-63.98	PK	34.8	-19.7	11.8	0	-37.08	-27	-10.08	1	228	H

PK - Peak detector

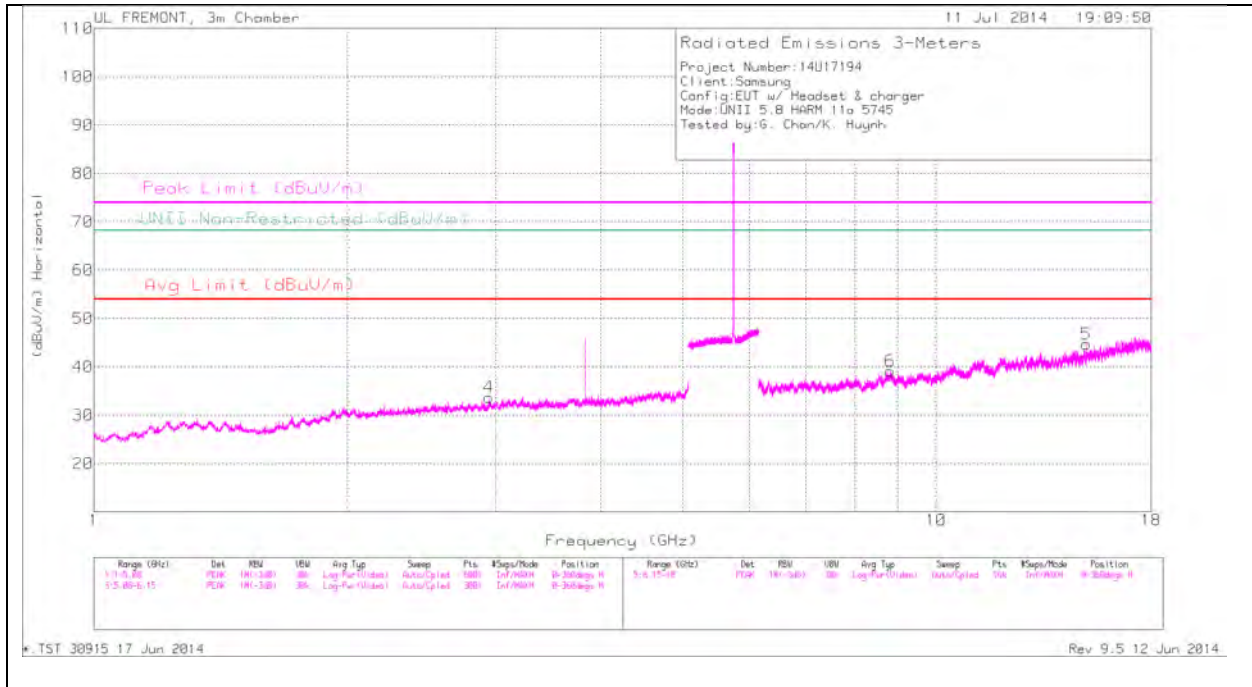


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT345 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-55.21	PK	34.8	-19.8	11.8	0	-28.41	-17	-11.41	118	231	V
2	5.862	-59.96	PK	34.8	-19.7	11.8	0	-33.06	-27	-6.06	118	231	V

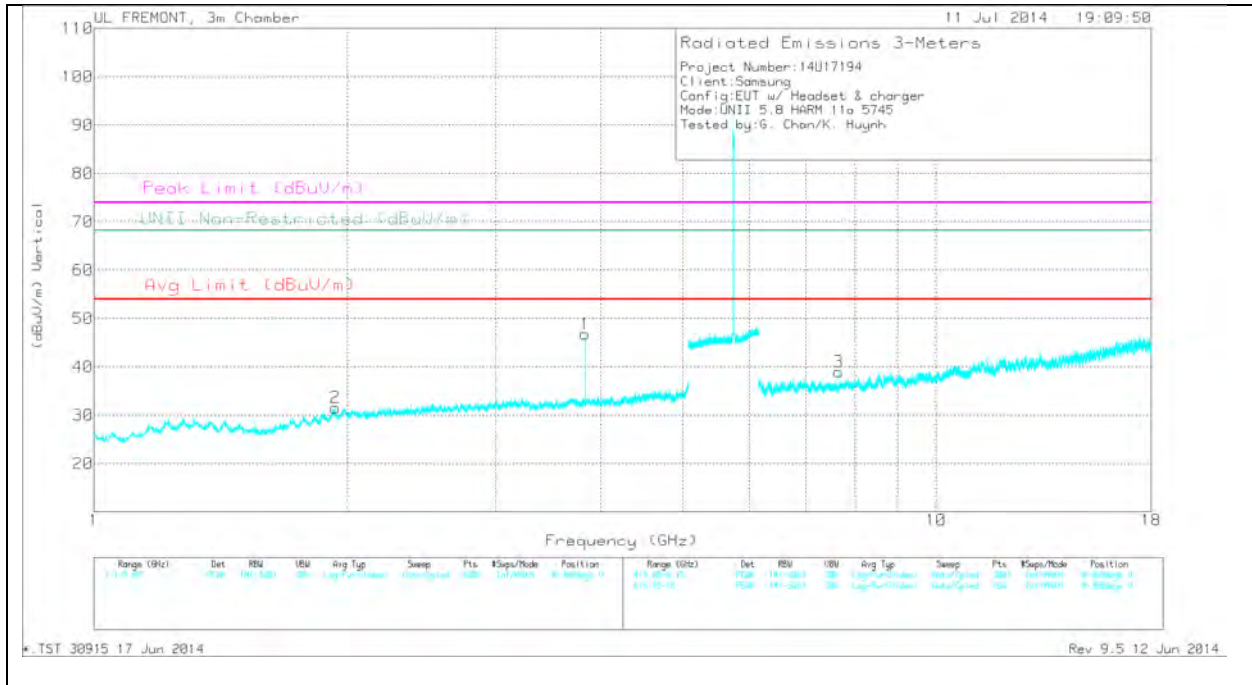
PK - Peak detector

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.

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.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	1.934	32.45	PK	31.4	-32.3	0	31.55	-	-	-	-	68.2	-36.65	0-360	100	V
4	2.945	32.85	PK	32.8	-31.9	0	33.75	-	-	-	-	68.2	-34.45	0-360	100	H
1	3.83	44.75	PK	33.2	-31.2	0	46.75	-	-	74	-27.25	-	-	0-360	100	V
3	7.66	31.83	PK	35.8	-28.6	0	39.03	-	-	74	-34.97	-	-	0-360	100	V
6	8.819	28.89	PK	36	-25.7	0	39.19	-	-	-	-	68.2	-29.01	0-360	100	H
5	15.081	31.66	PK	39.8	-26.7	0	44.76	-	-	-	-	68.2	-23.44	0-360	100	H

PK - Peak detector

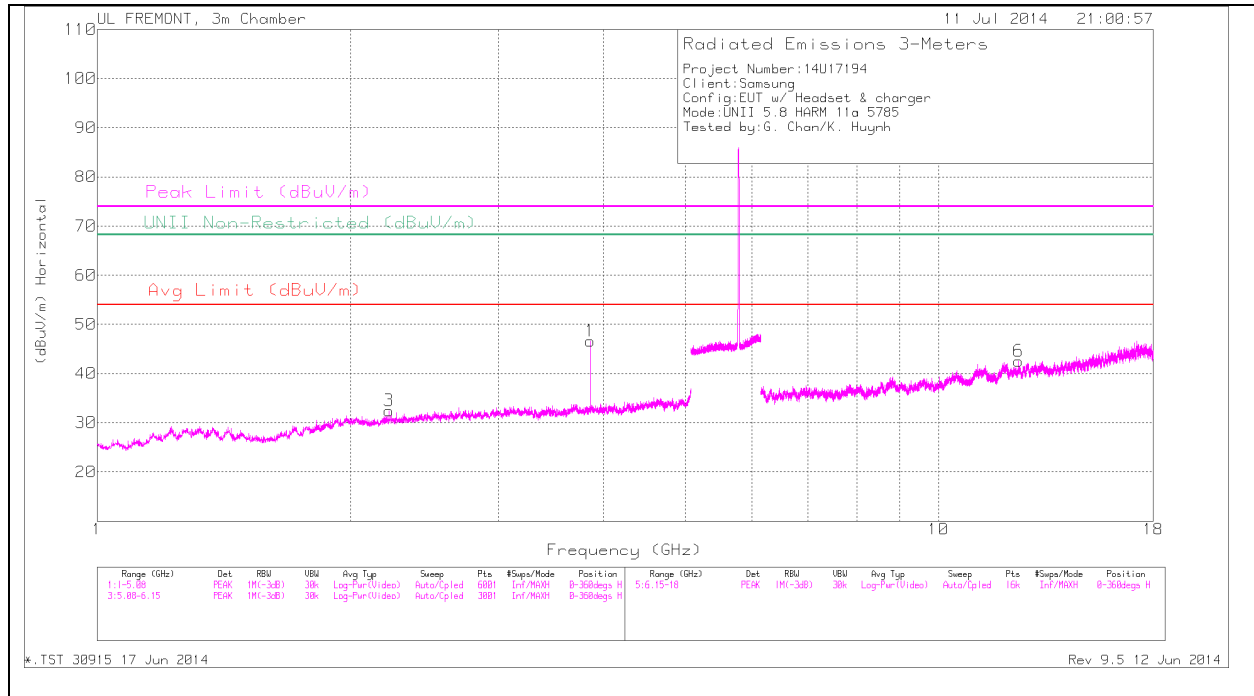
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.932	41.16	PK1	31.4	-32.4	0	40.16	-	-	-	-	68.2	-28.04	263	100	V
2.946	41.63	PK1	32.8	-31.9	0	42.53	-	-	-	-	68.2	-25.67	263	100	H
3.83	49.3	PK1	33.2	-31.2	0	51.3	-	-	74	-22.7	-	-	263	360	V
3.83	45.83	AD1	33.2	-31.2	29	48.05	54	-5.95	-	-	-	-	263	360	V
8.82	37.19	PK1	36	-25.7	0	47.49	-	-	-	-	68.2	-20.71	263	100	H
15.08	39.48	PK1	39.8	-26.7	0	52.58	-	-	-	-	68.2	-15.62	263	100	H

PK1 - KDB789033 Method: Peak

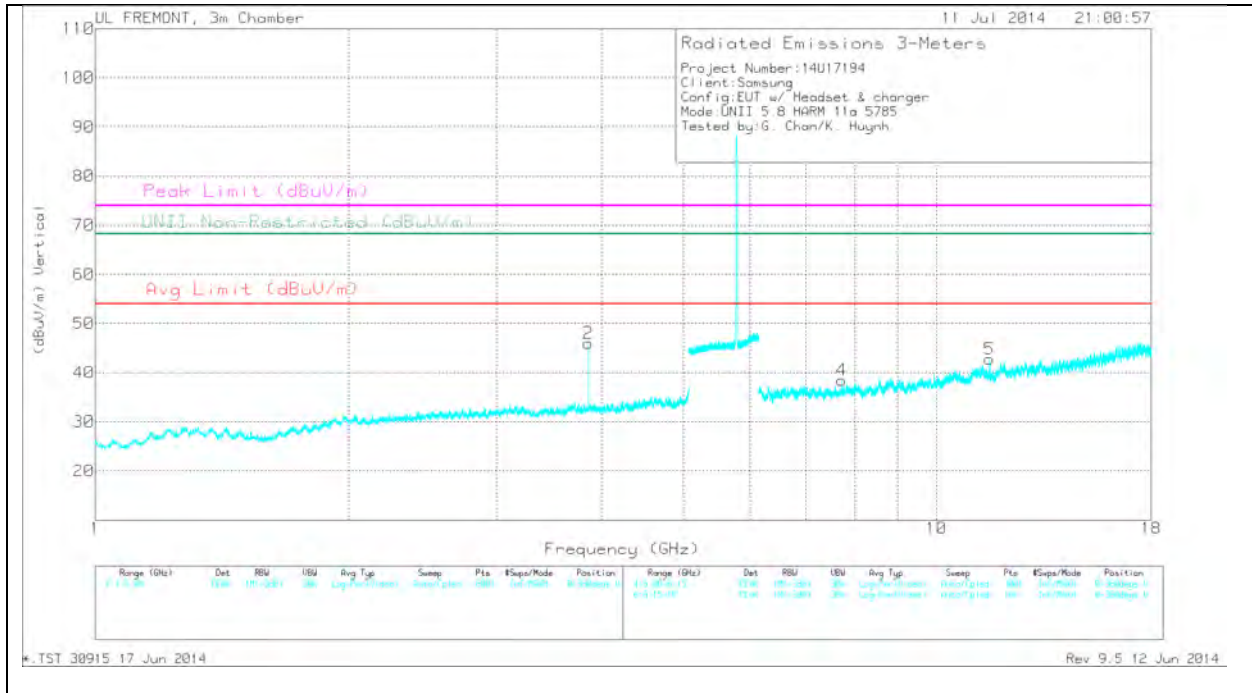
AD1 - KDB789033 Method: AD Primary Power Average

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.

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.

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	2.222	33.07	PK	31.7	-32.3	0	32.47	-	-	74	-41.53	-	-	0-360	100	H
1	3.857	44.24	PK	33.2	-30.8	0	46.64	-	-	74	-27.36	-	-	0-360	200	H
2	3.857	43.59	PK	33.2	-30.8	0	45.99	-	-	74	-28.01	-	-	0-360	200	V
4	7.713	31.76	PK	35.8	-29.1	0	38.46	-	-	74	-35.54	-	-	0-360	200	V
5	11.57	30.45	PK	38.4	-26.1	0	42.75	-	-	74	-31.25	-	-	0-360	200	V
6	12.457	29.85	PK	39.1	-26.4	0	42.55	-	-	74	-31.45	-	-	0-360	200	H

PK - Peak detector

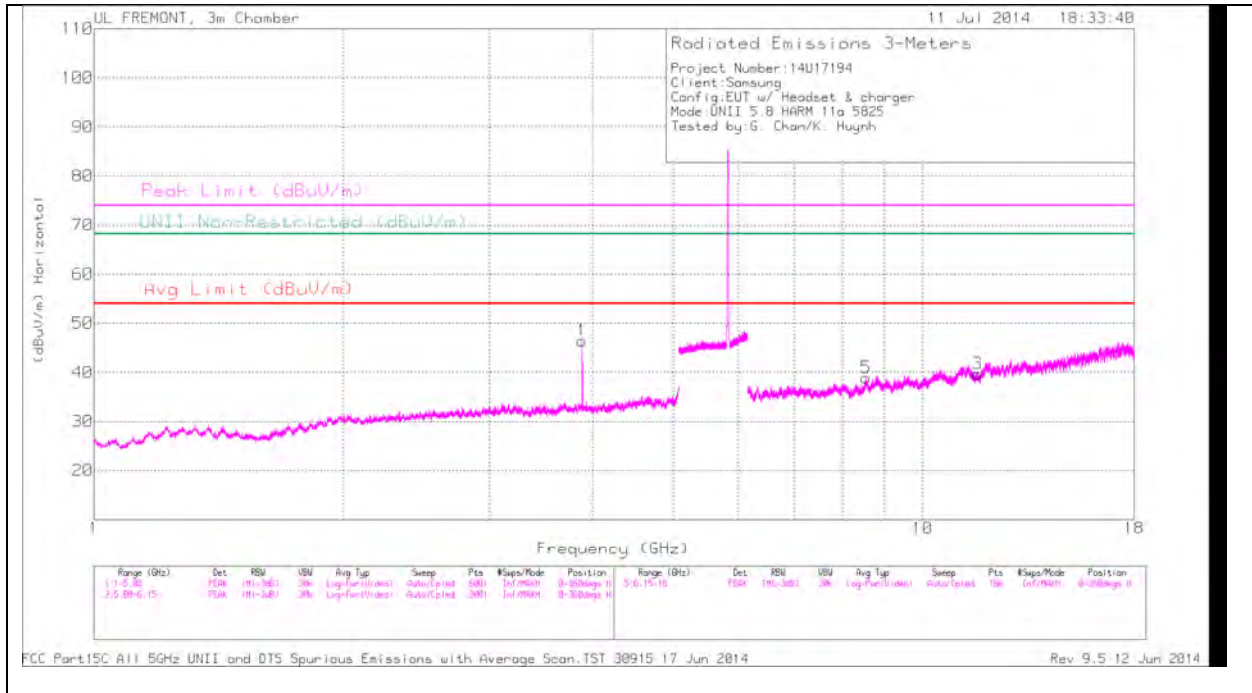
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.221	41.23	PK1	31.7	-32.3	0	40.63	-	-	74	-33.37	-	-	299	100	H
3.857	48.86	PK1	33.2	-30.8	0	51.26	-	-	74	-22.74	-	-	153	392	H
3.857	45.56	AD1	33.2	-30.9	29	48.08	54	-5.92	-	-	-	-	153	392	H
3.857	49.81	PK1	33.2	-30.9	0	52.11	-	-	74	-21.89	-	-	299	312	V
3.857	46.95	AD1	33.2	-30.8	29	49.57	54	-4.43	-	-	-	-	299	312	V
7.714	40.39	PK1	35.8	-29.1	0	47.09	-	-	74	-26.91	-	-	299	200	V
11.569	39.87	PK1	38.4	-26.1	0	52.17	-	-	74	-21.83	-	-	299	200	V
12.458	38.69	PK1	39.1	-26.4	0	51.39	-	-	74	-22.61	-	-	299	200	H

PK1 - KDB789033 Method: Peak

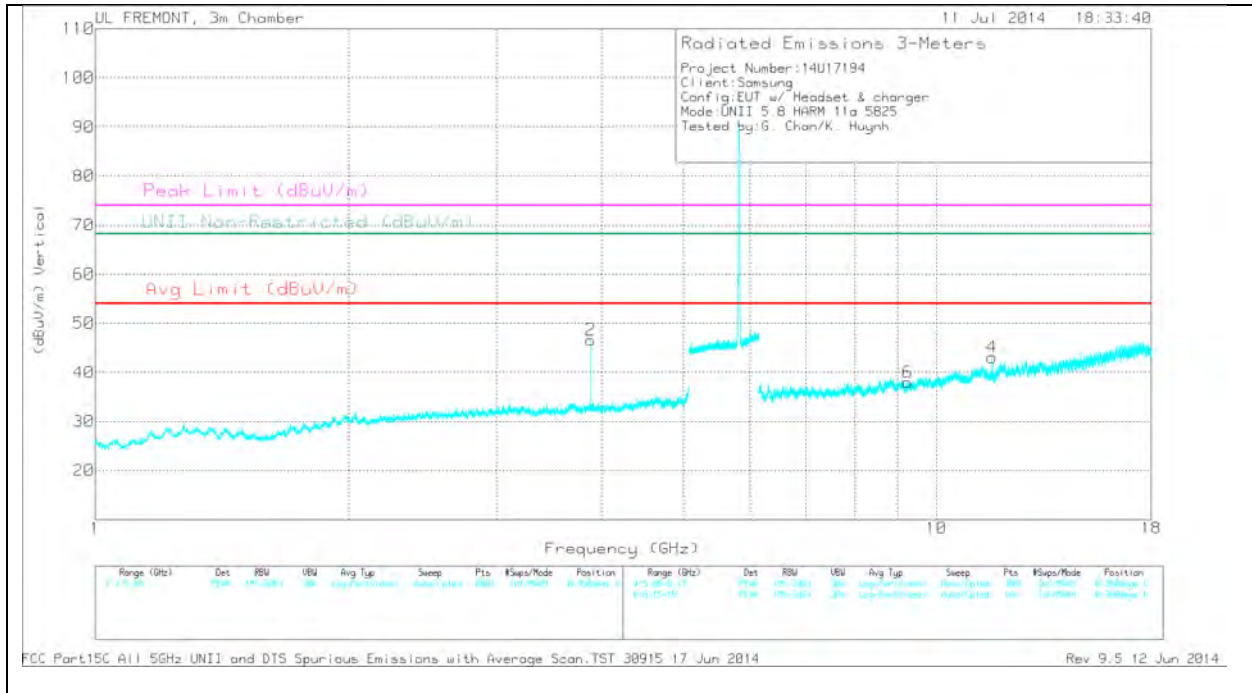
AD1 - KDB789033 Method: AD Primary Power Average

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.

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.

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.883	44.08	PK	33.2	-30.8	0	46.48	-	-	74	-27.52	-	-	0-360	200	H
2	3.883	44.18	PK	33.2	-30.8	0	46.58	-	-	74	-27.42	-	-	0-360	200	V
5	8.552	29.23	PK	35.8	-26.1	0	38.93	-	-	-	-	68.2	-29.27	0-360	100	H
6	9.247	28.17	PK	36.3	-26.5	0	37.97	-	-	-	-	68.2	-30.23	0-360	200	V
3	11.646	27.2	PK	38.6	-26.1	0	39.7	-	-	74	-34.3	-	-	0-360	200	H
4	11.649	30.65	PK	38.6	-26.2	0	43.05	-	-	74	-30.95	-	-	0-360	100	V

PK - Peak detector

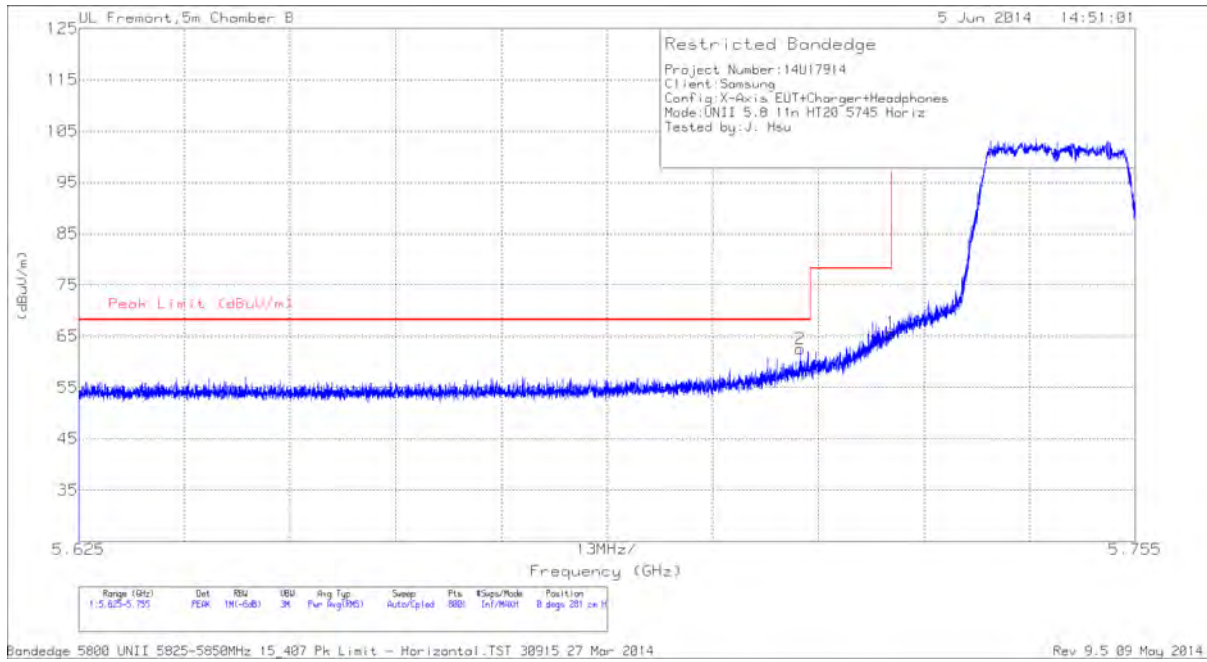
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3.883	48.69	PK1	33.2	-30.8	0	51.09	-	-	74	-22.91	-	-	155	331	H
3.883	45.77	AD1	33.2	-30.8	.29	48.39	54	-5.61	-	-	-	-	155	331	H
8.552	38.89	PK1	35.8	-26.1	0	48.59	-	-	-	-	68.2	-19.61	260	100	H
9.246	37.58	PK1	36.3	-26.5	0	47.38	-	-	-	-	68.2	-20.82	260	200	V
11.645	37.26	PK1	38.6	-26.1	0	49.76	-	-	74	-24.24	-	-	260	200	H
11.649	40.28	PK1	38.6	-26.1	0	52.78	-	-	74	-21.22	-	-	260	100	V

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

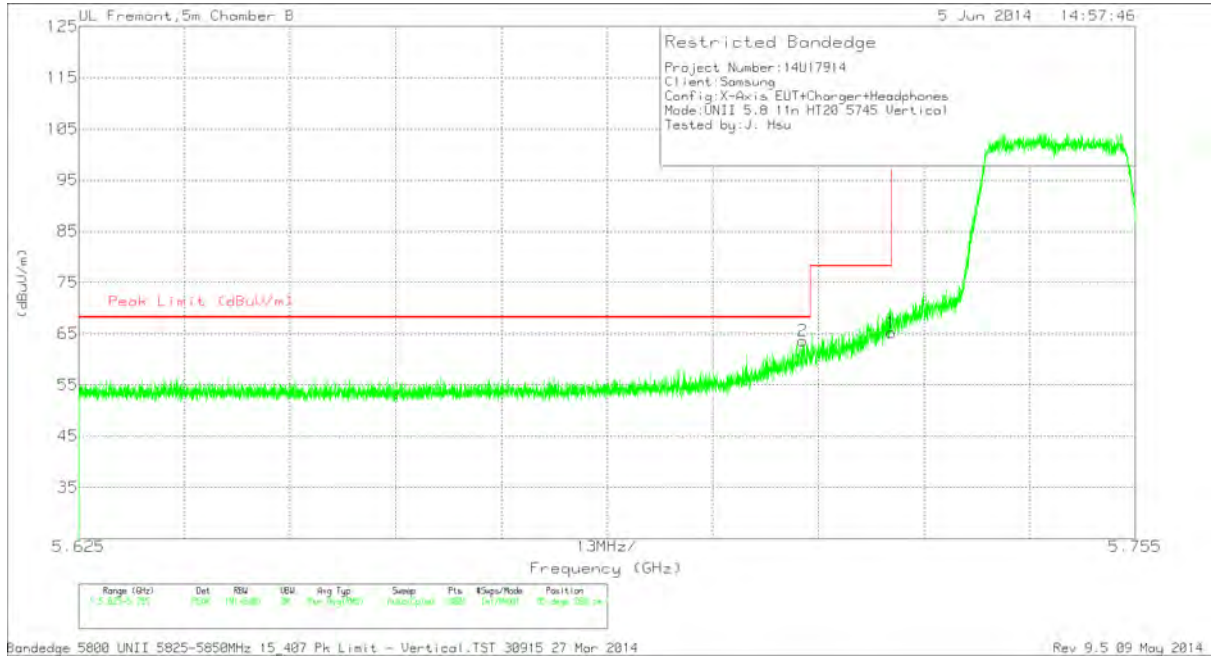
11.4.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.8 GHz BAND HARMONICS AND SPURIOUS EMISSIONS



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.714	48.04	PK	34.5	-20	0	62.54	68.2	-5.66	0	281	H
1	5.725	50.95	PK	34.6	-19.9	0	65.65	78.2	-12.55	0	281	H

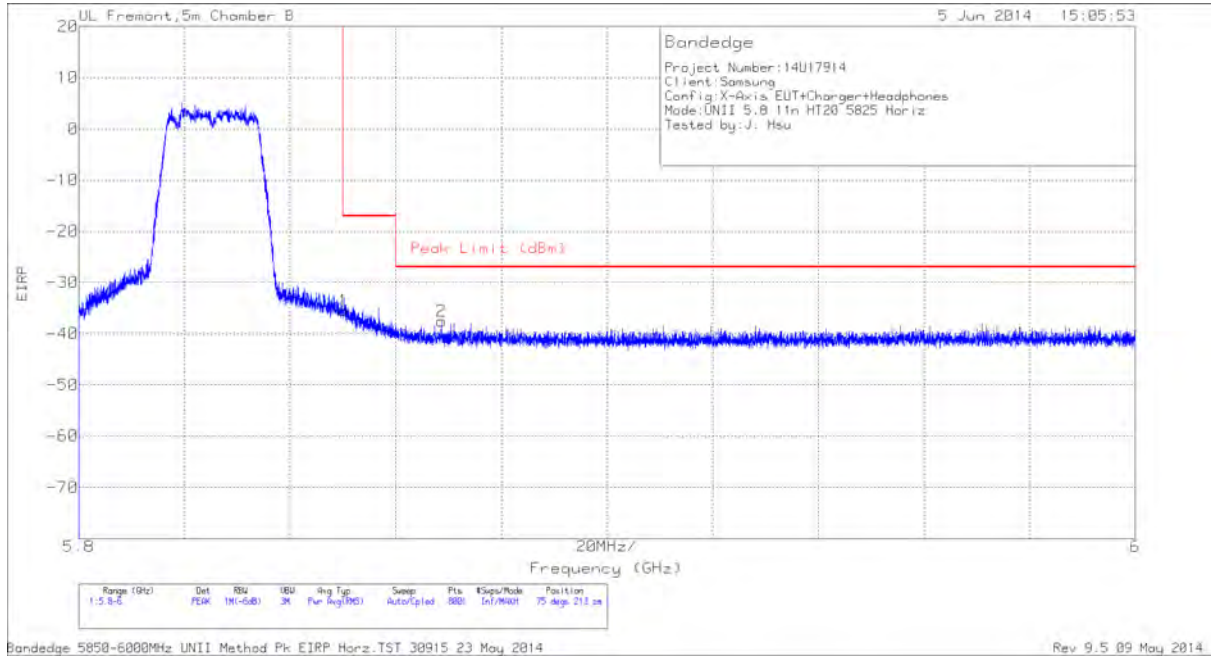
PK - Peak detector



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.714	49.09	PK	34.5	-20	0	63.59	68.2	-4.61	85	260	V
1	5.725	50.5	PK	34.6	-19.9	0	65.2	78.2	-13	85	260	V

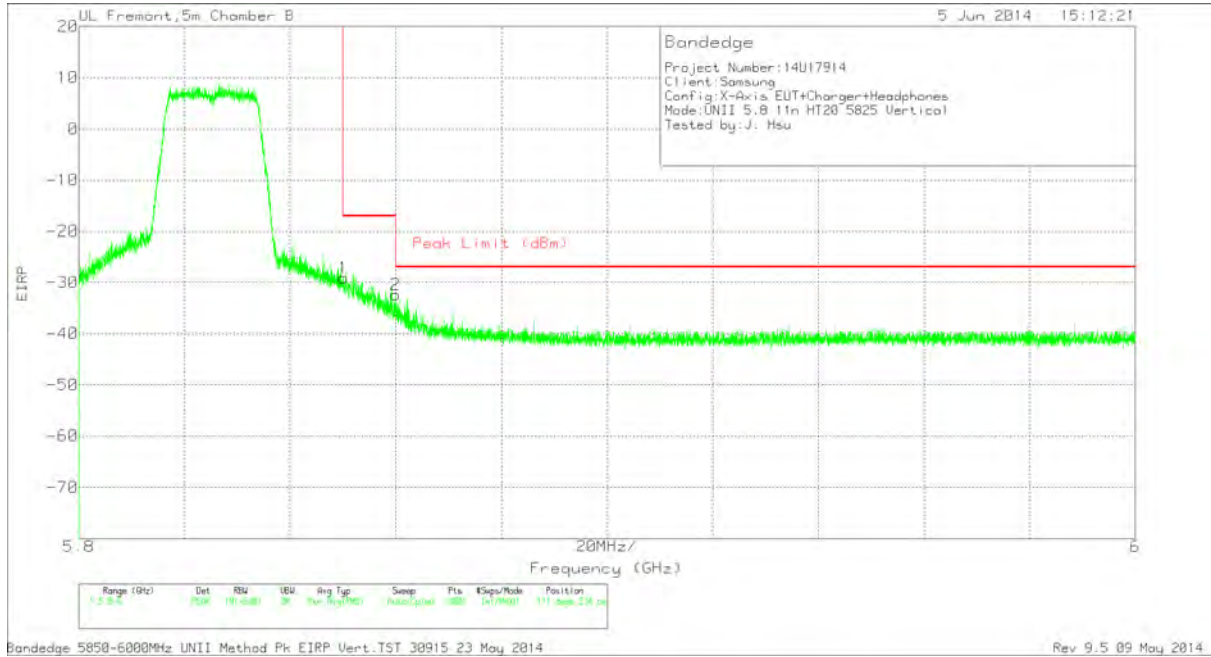
PK - Peak detector



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT345 (dB/m)	Amp/Cb/ Ftr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-62.31	PK	34.8	-19.8	11.8	0	-35.51	-17	-18.51	75	213	H
2	5.869	-64.63	PK	34.9	-19.6	11.8	0	-37.53	-27	-10.53	75	213	H

PK - Peak detector

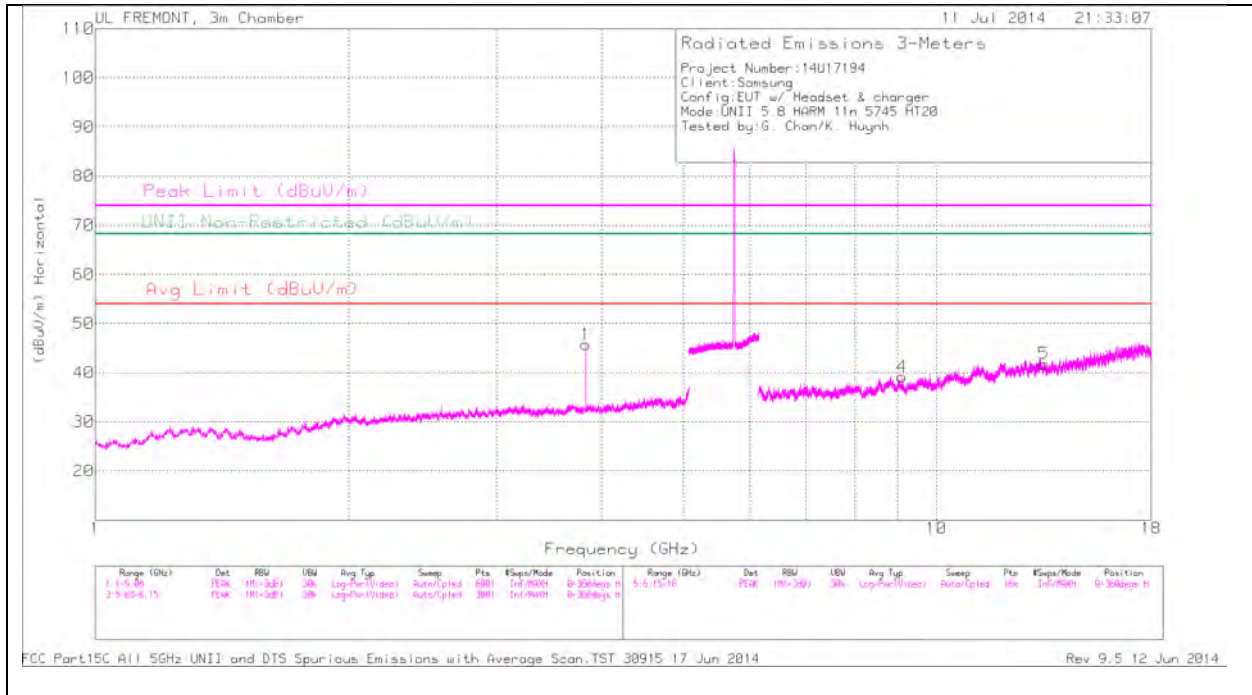


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT345 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-55.88	PK	34.8	-19.8	11.8	0	-29.08	-17	-12.08	111	234	V
2	5.86	-59.3	PK	34.8	-19.7	11.8	0	-32.4	-27	-5.4	111	234	V

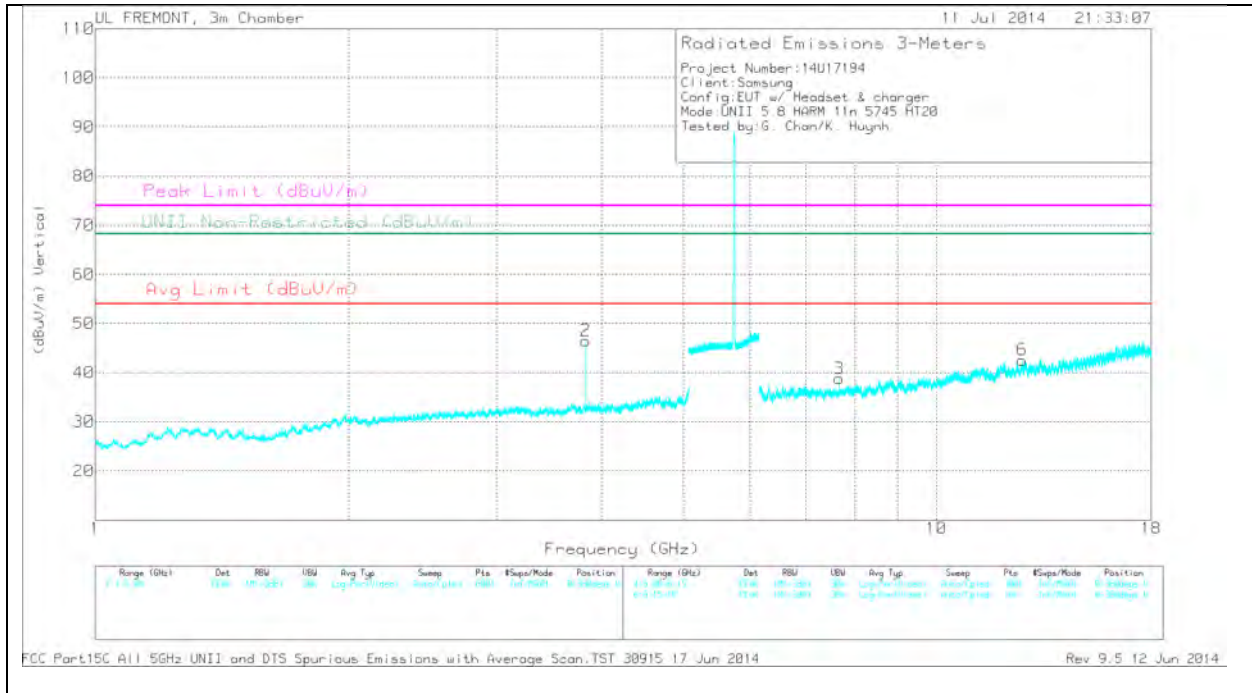
PK - Peak detector

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.

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.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.83	43.73	PK	33.2	-31.2	0	45.73	-	-	74	-28.27	-	-	0-360	200	H
2	3.83	44.51	PK	33.2	-31.2	0	46.51	-	-	74	-27.49	-	-	0-360	100	V
3	7.66	31.6	PK	35.8	-28.6	0	38.8	-	-	74	-35.2	-	-	0-360	200	V
4	9.099	28.8	PK	36.2	-25.8	0	39.2	-	-	74	-34.8	-	-	0-360	200	H
6	12.652	30.27	PK	39.2	-26.9	0	42.57	-	-	74	-31.43	-	-	0-360	100	V
5	13.422	30.11	PK	39.1	-27.4	0	41.81	-	-	-	-	68.2	-26.39	0-360	100	H

PK - Peak detector

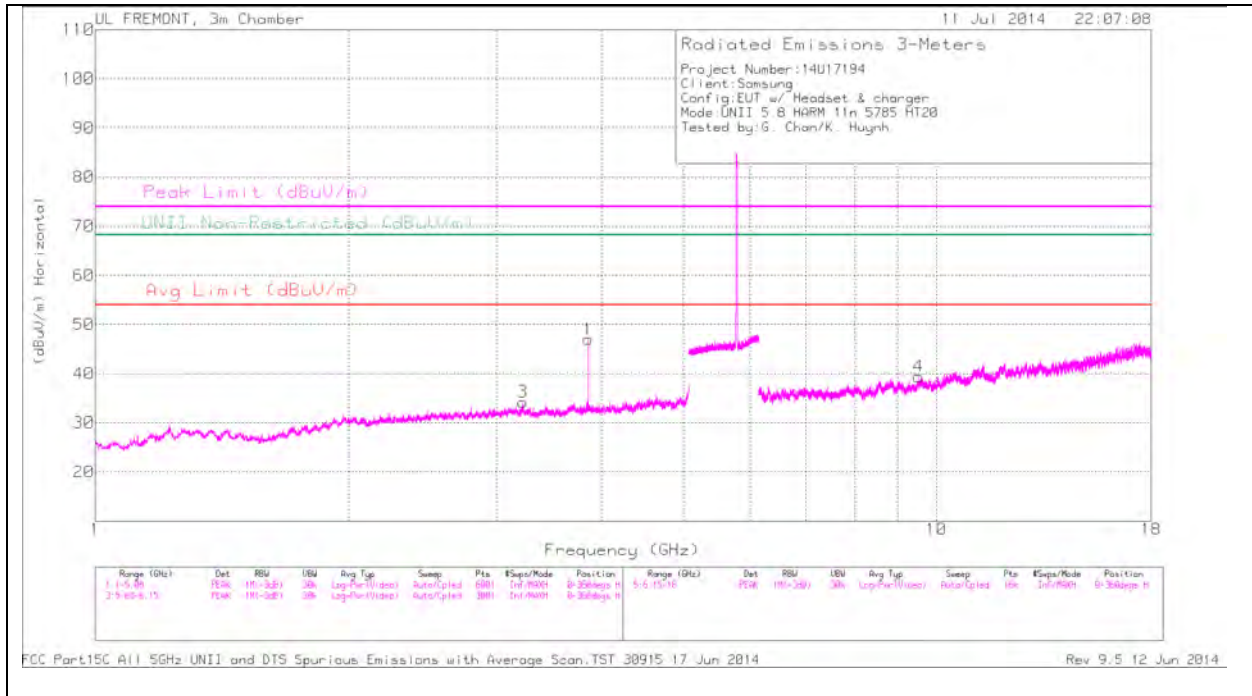
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3.83	49.26	PK1	33.2	-31.2	0	51.26	-	-	74	-22.74	-	-	153	340	H
3.83	46.46	AD1	33.2	-31.2	.59	48.7	54	-5.3	-	-	-	-	153	340	H
3.83	48.49	PK1	33.2	-31.2	0	50.49	-	-	74	-23.51	-	-	116	326	V
3.83	45.09	AD1	33.2	-31.2	.59	47.33	54	-6.67	-	-	-	-	116	326	V
7.66	39.01	PK1	35.8	-28.6	0	46.21	-	-	74	-27.79	-	-	116	200	V
9.099	36.89	PK1	36.2	-25.9	0	47.19	-	-	74	-26.81	-	-	116	200	H
12.652	38.71	PK1	39.2	-26.9	0	51.01	-	-	74	-22.99	-	-	116	100	V
13.422	39.41	PK1	39.1	-27.4	0	51.11	-	-	-	-	68.2	-17.09	116	100	H

PK1 - KDB789033 Method: Peak

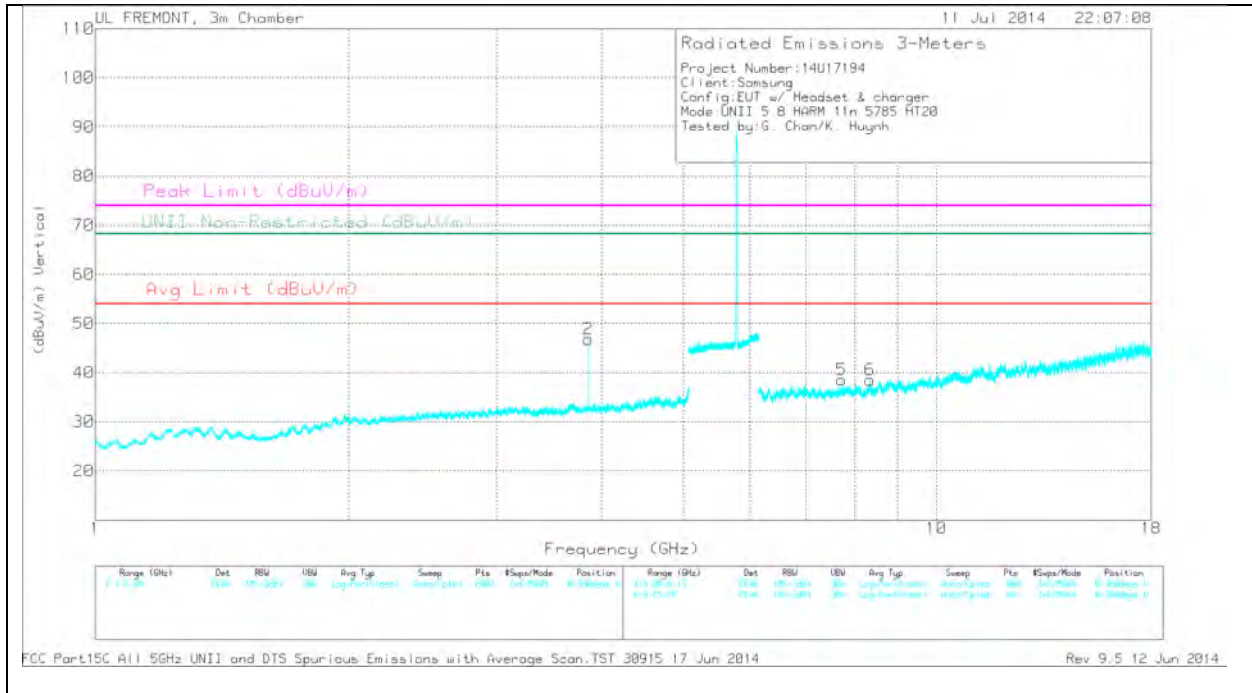
AD1 - KDB789033 Method: AD Primary Power Average

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.

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.

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	3.223	32.66	PK	32.9	-31.3	0	34.26	-	-	-	-	68.2	-33.94	0-360	200	H
1	3.857	44.57	PK	33.2	-30.8	0	46.97	-	-	74	-27.03	-	-	0-360	200	H
2	3.857	44.41	PK	33.2	-30.8	0	46.81	-	-	74	-27.19	-	-	0-360	100	V
5	7.713	31.86	PK	35.8	-29.1	0	38.56	-	-	74	-35.44	-	-	0-360	200	V
6	8.336	29.1	PK	35.8	-26.4	0	38.5	-	-	74	-35.5	-	-	0-360	100	V
4	9.526	28.6	PK	36.6	-25.8	0	39.4	-	-	-	-	68.2	-28.8	0-360	100	H

PK - Peak detector

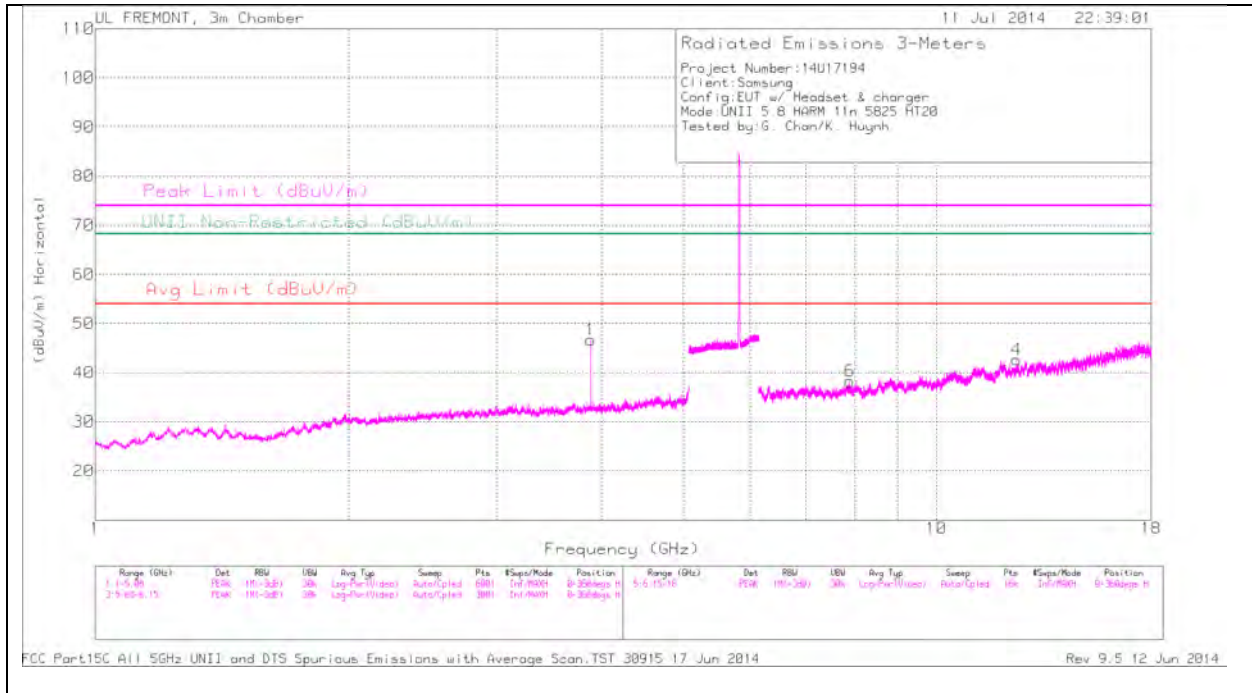
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3.222	41.21	PK1	32.9	-31.3	0	42.81	-	-	-	-	68.2	-25.39	120	200	H
3.857	48.36	PK1	33.2	-30.8	0	50.76	-	-	74	-23.24	-	-	148	343	H
3.857	44.93	AD1	33.2	-30.8	.59	47.57	54	-6.43	-	-	-	-	148	343	H
3.857	49.35	PK1	33.2	-30.9	0	51.65	-	-	74	-22.35	-	-	120	323	V
3.857	46.31	AD1	33.2	-30.8	.59	48.95	54	-5.05	-	-	-	-	120	323	V
7.713	39.37	PK1	35.8	-29.1	0	46.07	-	-	74	-27.93	-	-	120	200	V
8.335	38.28	PK1	35.8	-26.4	0	47.68	-	-	74	-26.32	-	-	120	100	V
9.525	36.52	PK1	36.6	-25.8	0	47.32	-	-	-	-	68.2	-20.88	120	100	H

PK1 - KDB789033 Method: Peak

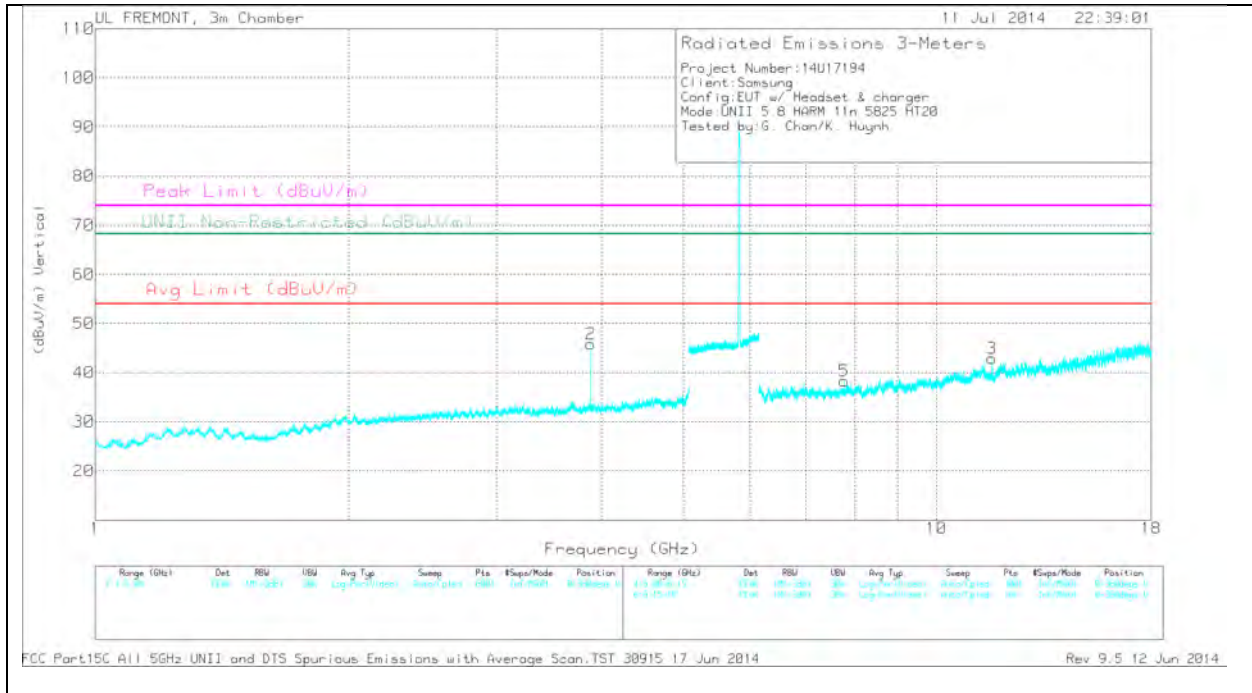
AD1 - KDB789033 Method: AD Primary Power Average

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.

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.

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.883	44.28	PK	33.2	-30.8	0	46.68	-	-	74	-27.32	-	-	0-360	200	H
2	3.883	43.43	PK	33.2	-30.8	0	45.83	-	-	74	-28.17	-	-	0-360	200	V
5	7.767	31.49	PK	35.8	-29	0	38.29	-	-	-	-	68.2	-29.91	0-360	100	V
6	7.886	30.34	PK	35.8	-27.9	0	38.24	-	-	-	-	68.2	-29.96	0-360	200	H
3	11.65	30.47	PK	38.6	-26.2	0	42.87	-	-	74	-31.13	-	-	0-360	100	V
4	12.446	30.05	PK	39.1	-26.5	0	42.65	-	-	74	-31.35	-	-	0-360	200	H

PK - Peak detector

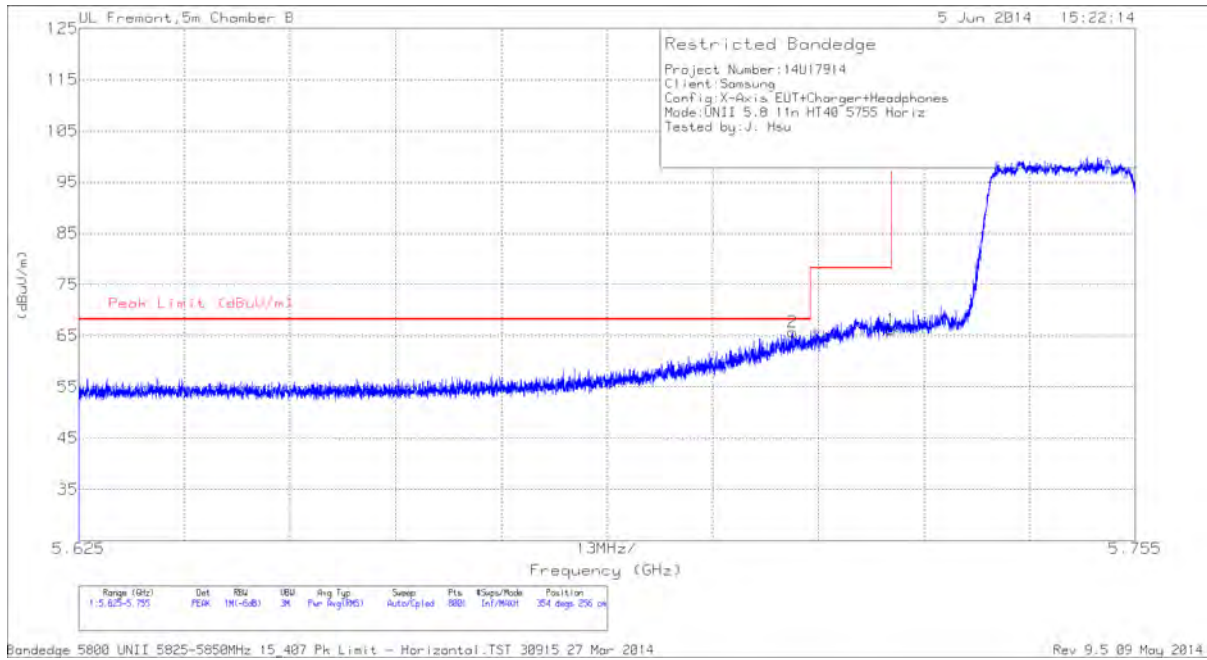
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3.883	48.69	PK1	33.2	-30.8	0	51.09	-	-	74	-22.91	-	-	151	331	H
3.883	45.85	AD1	33.2	-30.8	.59	48.49	54	-5.51	-	-	-	-	151	331	H
3.883	48.84	PK1	33.2	-30.8	0	51.24	-	-	74	-22.76	-	-	258	234	V
3.883	45.74	AD1	33.2	-30.8	.59	48.38	54	-5.62	-	-	-	-	258	234	V
7.767	39.81	PK1	35.8	-29	0	46.61	-	-	-	-	68.2	-21.59	258	100	V
7.888	38.32	PK1	35.8	-27.9	0	46.22	-	-	-	-	68.2	-21.98	258	200	H
11.649	39.13	PK1	38.6	-26.2	0	51.53	-	-	74	-22.47	-	-	258	100	V
12.445	38.24	PK1	39.1	-26.5	0	50.84	-	-	74	-23.16	-	-	258	200	H

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

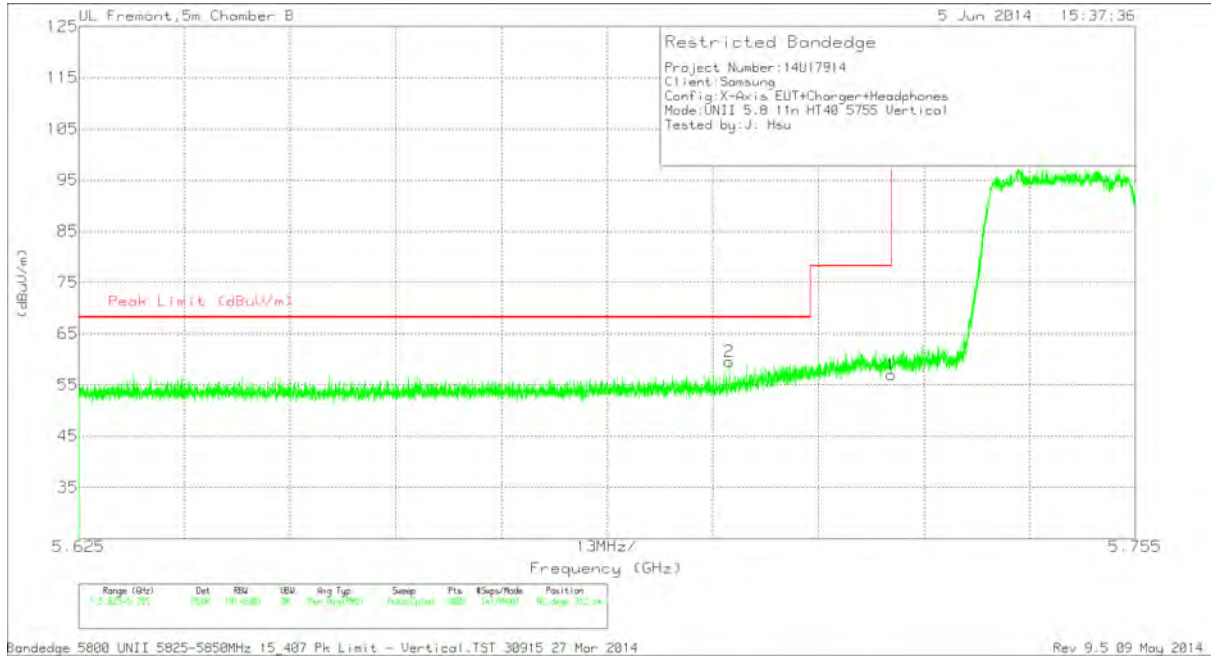
11.4.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.8 GHz BAND HARMONICS AND SPURIOUS EMISSIONS



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.713	51.21	PK	34.5	-20	0	65.71	68.2	-2.49	354	256	H
1	5.725	51.45	PK	34.6	-19.9	0	66.15	78.2	-12.05	354	256	H

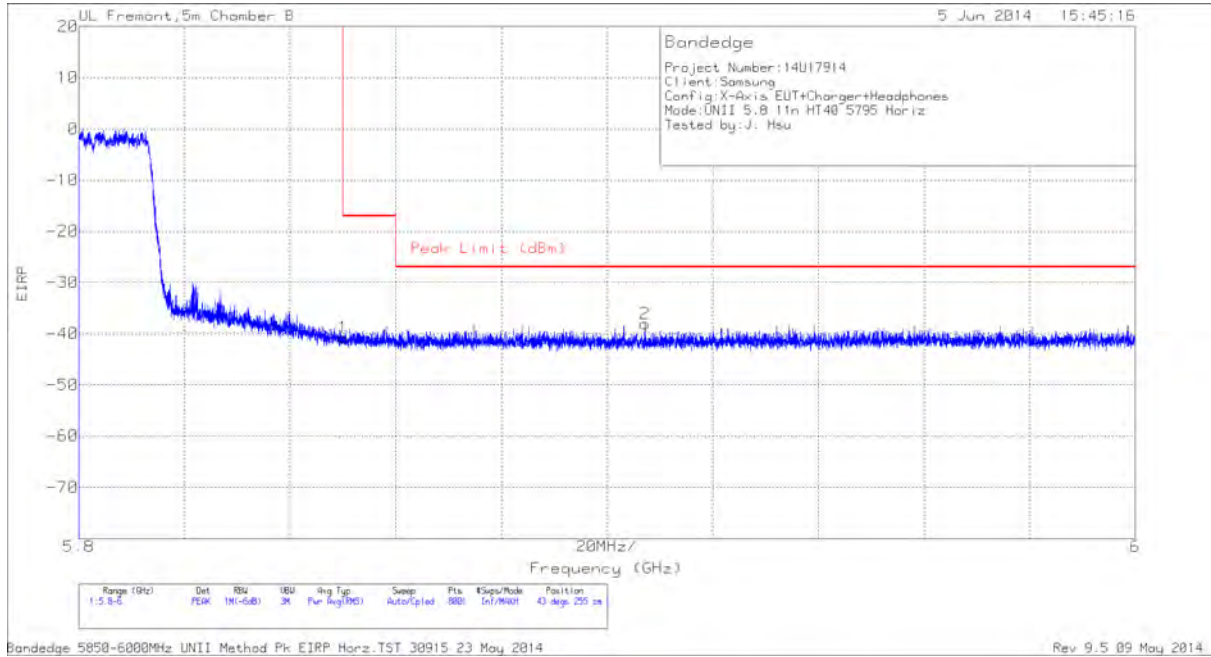
PK - Peak detector



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.705	45.09	PK	34.5	-20	0	59.59	68.2	-8.61	92	312	V
1	5.725	42.32	PK	34.6	-19.9	0	57.02	78.2	-21.18	92	312	V

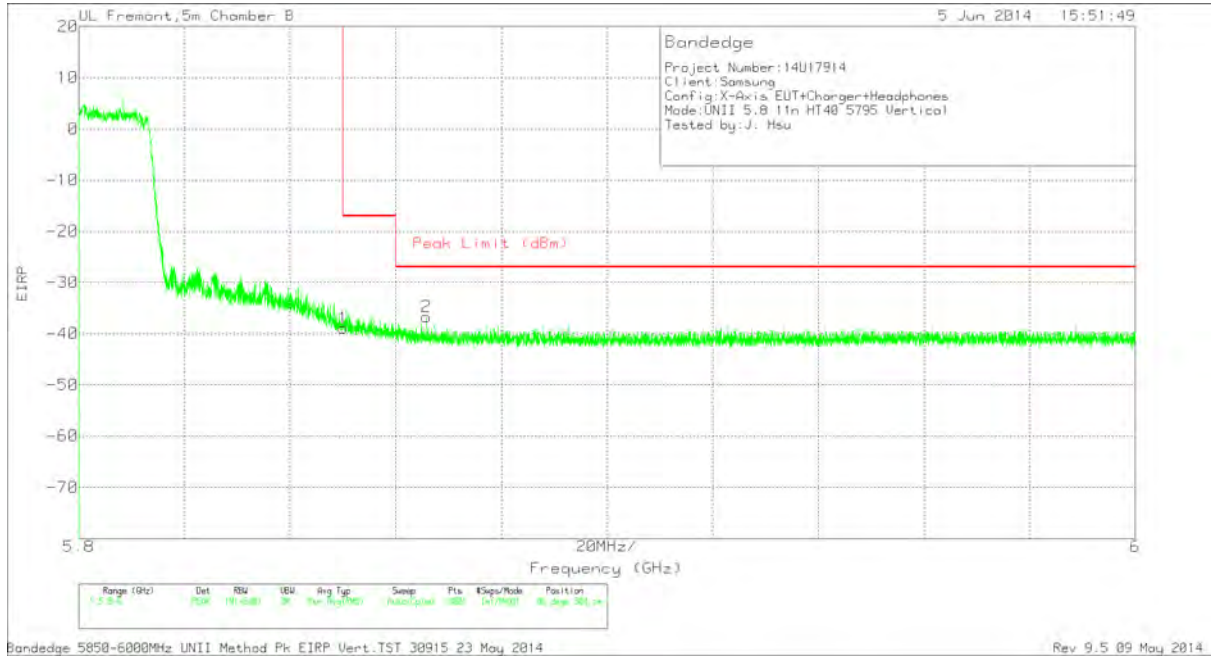
PK - Peak detector



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT345 (dB/m)	Amp/Cb/ Ftr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-67.52	PK	34.8	-19.8	11.8	0	-40.72	-17	-23.72	43	255	H
2	5.907	-65.26	PK	35	-19.6	11.8	0	-38.06	-27	-11.06	43	255	H

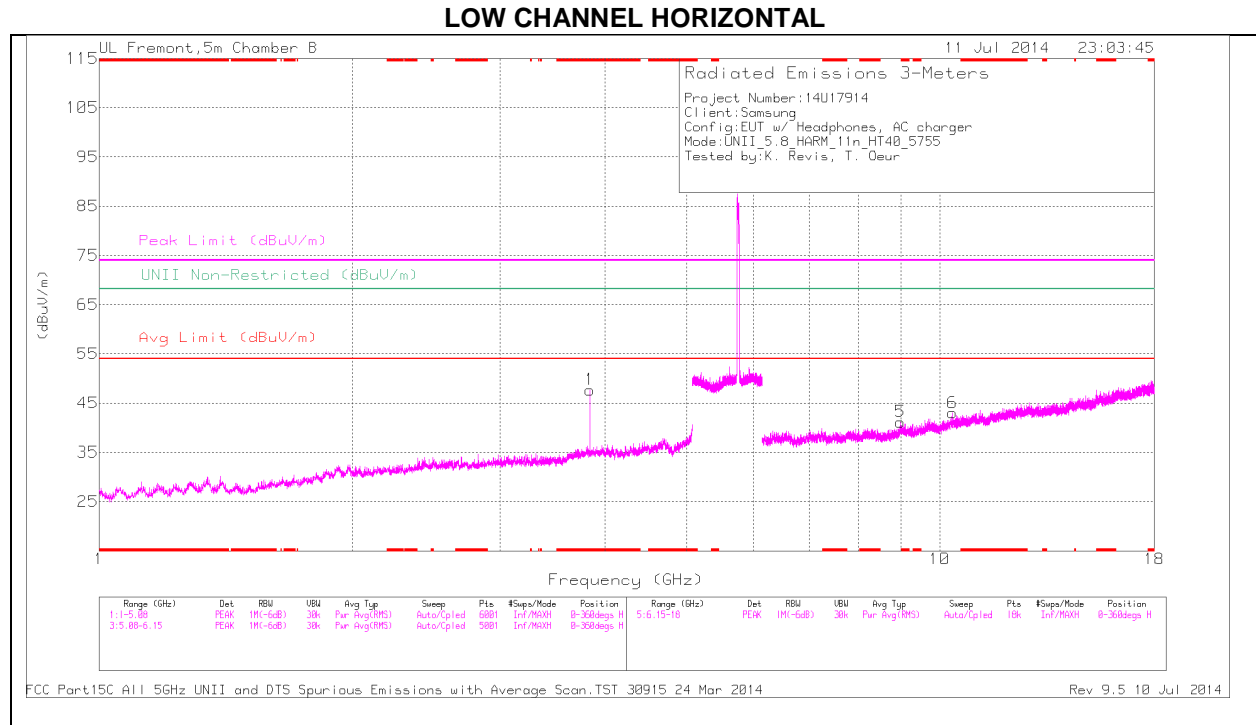
PK - Peak detector



Trace Markers

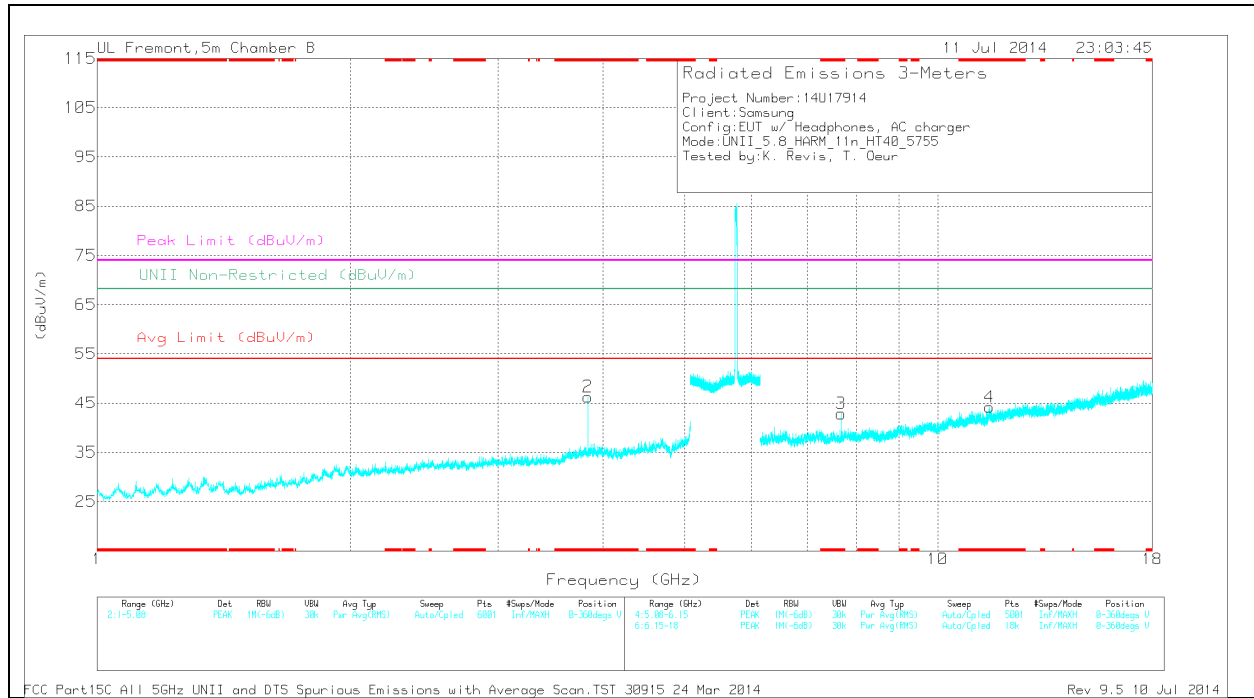
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT345 (dB/m)	Amp/Cb/ Ftr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-65.69	PK	34.8	-19.8	11.8	0	-38.89	-17	-21.89	86	304	V
2	5.866	-63.73	PK	34.9	-19.7	11.8	0	-36.73	-27	-9.73	86	304	V

PK - Peak detector



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

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.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.837	45.1	PK	33.7	-31.1	0	47.7	-	-	74	-26.3	-	-	0-360	99	H
2	* 3.837	43.68	PK	33.7	-31.1	0	46.28	-	-	74	-27.72	-	-	0-360	99	V
3	* 7.673	34.57	PK	35.7	-27.4	0	42.87	-	-	74	-31.13	-	-	0-360	194	V
4	* 11.522	27.86	PK	38.1	-21.8	0	44.16	-	-	74	-29.84	-	-	0-360	194	V
5	8.973	29.79	PK	36.2	-24.8	0	41.19	-	-	-	-	68.2	-27.01	0-360	99	H
6	10.36	28.51	PK	37.2	-22.7	0	43.01	-	-	-	-	68.2	-25.19	0-360	206	H

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

PK - Peak detector

Radiated Emissions

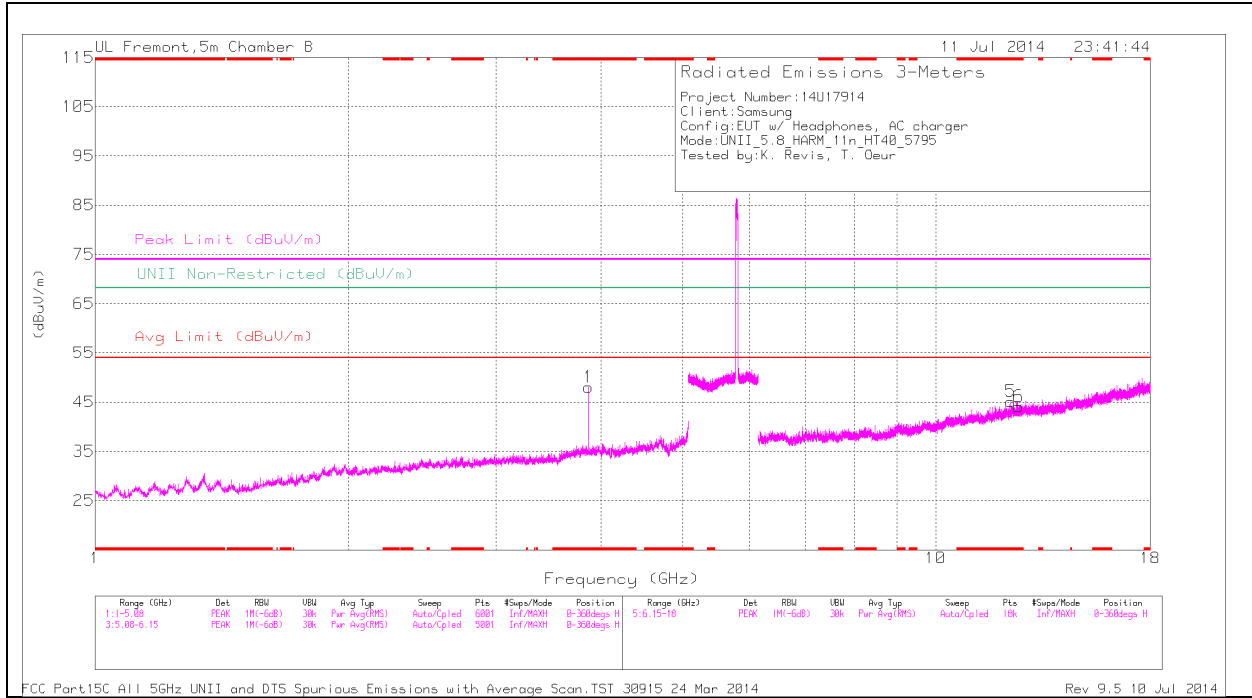
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.837	49.33	PK1	33.7	-31.1	0	51.93	-	-	74	-22.07	-	-	296	252	H
* 3.837	45.42	AD1	33.7	-31.1	1.08	49.1	54	-4.9	-	-	-	-	296	252	H
* 3.837	51.48	PK1	33.7	-31.1	0	54.08	-	-	74	-19.92	-	-	256	264	V
* 3.837	48.78	AD1	33.7	-31.1	1.08	52.46	54	-1.54	-	-	-	-	256	264	V
* 7.674	39.05	PK1	35.7	-27.4	0	47.35	-	-	74	-26.65	-	-	133	133	V
* 7.673	29.62	AD1	35.7	-27.4	1.08	39	54	-15	-	-	-	-	133	133	V
* 11.523	35.24	PK1	38.1	-21.8	0	51.54	-	-	74	-22.46	-	-	133	201	V
8.971	36.84	PK1	36.2	-24.8	0	48.24	-	-	-	-	68.2	-19.96	133	100	H
10.358	35.24	PK1	37.2	-22.7	0	49.74	-	-	-	-	68.2	-18.46	133	214	H

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

PK1 - KDB789033 Method: Peak

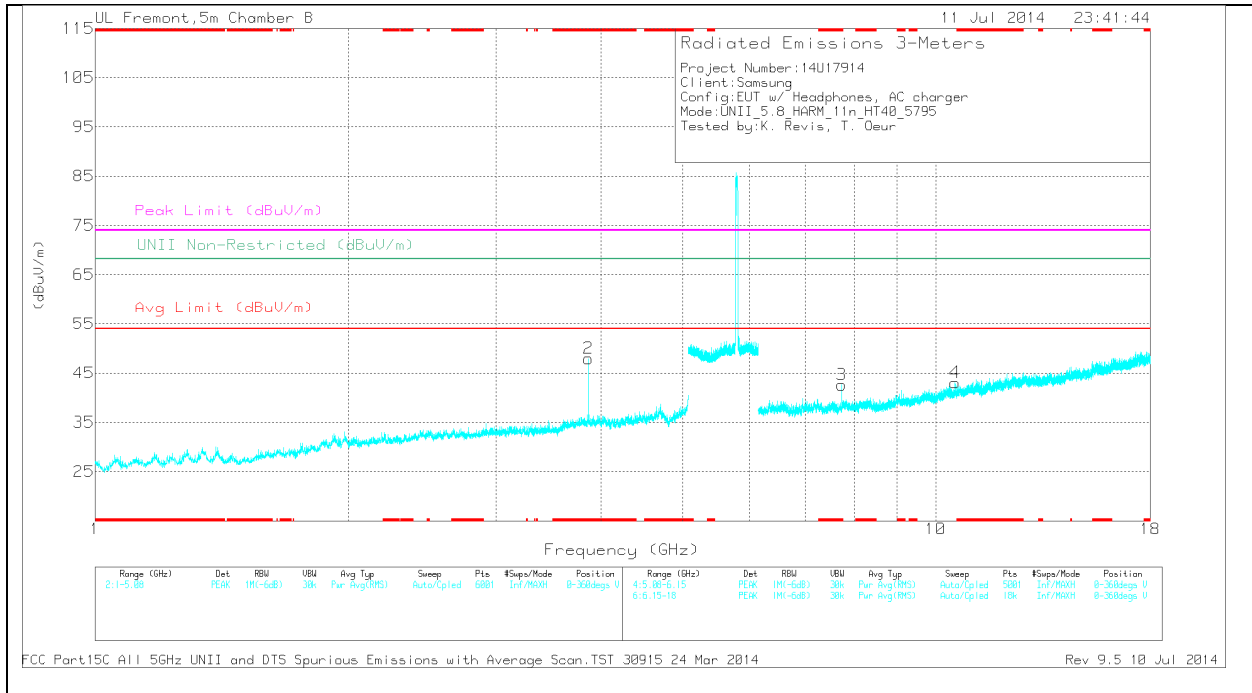
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL



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

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.

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.863	45.84	PK	33.7	-31.5	0	48.04	-	-	74	-25.96	-	-	0-360	206	H
2	* 3.863	45.77	PK	33.7	-31.5	0	47.97	-	-	74	-26.03	-	-	0-360	99	V
5	* 12.288	28.24	PK	39	-22.1	0	45.14	-	-	74	-28.86	-	-	0-360	206	H
6	* 12.549	26.7	PK	39.1	-21.7	0	44.1	-	-	74	-29.9	-	-	0-360	206	H
3	* 7.727	34.12	PK	35.7	-27.2	0	42.62	-	-	74	-31.38	-	-	0-360	192	V
4	10.545	28.46	PK	37.6	-23	0	43.06	-	-	-	-	68.2	-25.14	0-360	192	V

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

PK - Peak detector

Radiated Emissions

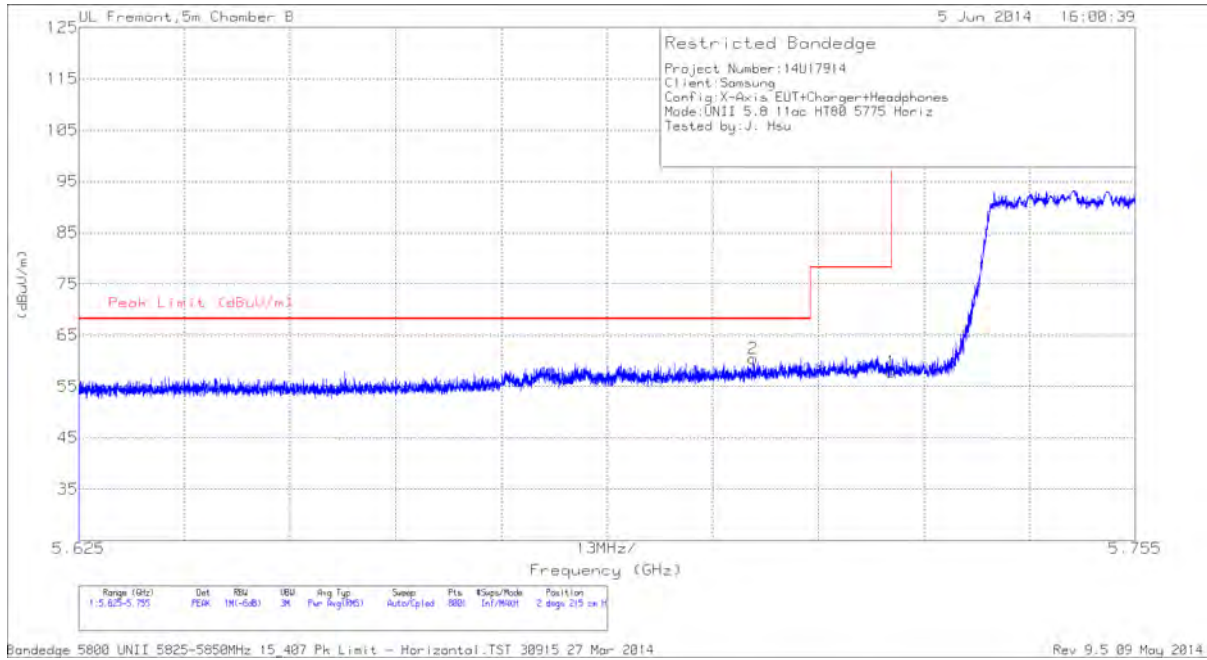
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.863	49.33	PK1	33.7	-31.5	0	51.53	-	-	74	-22.47	-	-	4	286	H
* 3.863	44.49	AD1	33.7	-31.5	1.08	47.77	54	-6.23	-	-	-	-	4	286	H
* 3.863	51.76	PK1	33.7	-31.5	0	53.96	-	-	74	-20.04	-	-	266	259	V
* 3.863	48.72	AD1	33.7	-31.5	1.08	52	54	-2	-	-	-	-	266	259	V
* 12.289	34.4	PK1	39	-22.1	0	51.3	-	-	74	-22.7	-	-	264	214	H
* 12.551	34.14	PK1	39.1	-21.8	0	51.44	-	-	74	-22.56	-	-	264	201	H
* 7.727	37.9	PK1	35.7	-27.2	0	46.4	-	-	74	-27.6	-	-	264	299	V
* 7.726	26.91	AD1	35.7	-27.2	1.08	36.49	54	-17.51	-	-	-	-	264	299	V
10.545	35.22	PK1	37.6	-23	0	49.82	-	-	-	-	68.2	-18.38	264	186	V

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

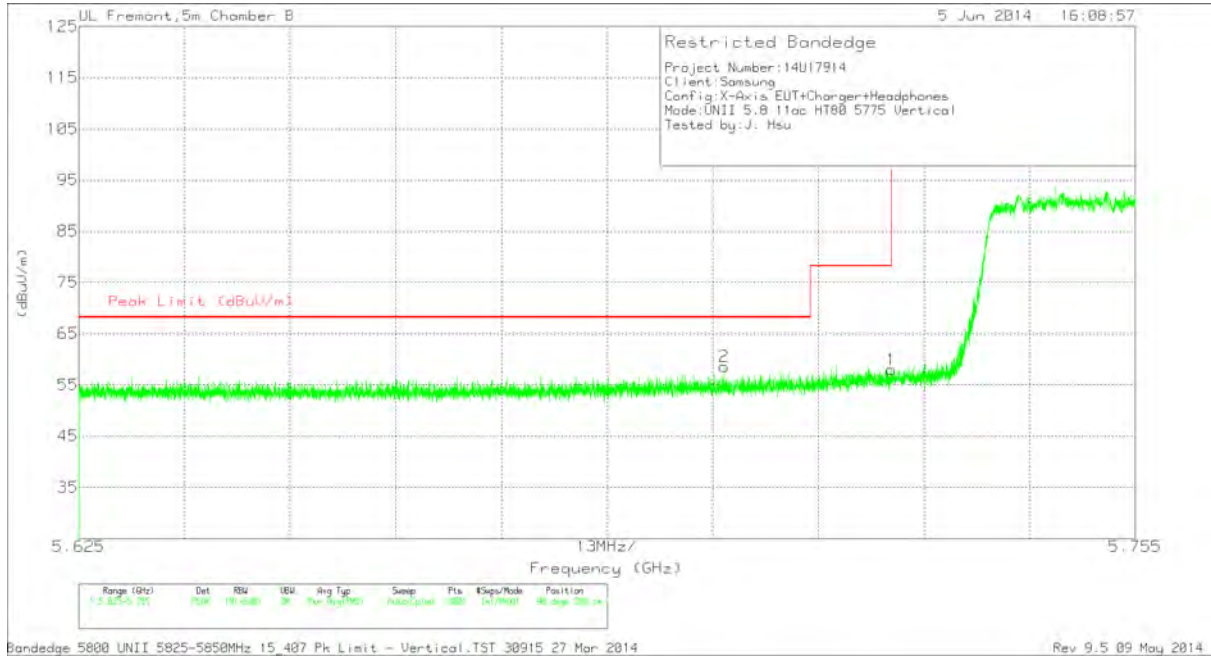
11.4.4. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.8 GHz BAND HARMONICS AND SPURIOUS EMISSIONS



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.708	45.92	PK	34.5	-20	0	60.42	68.2	-7.78	2	215	H
1	5.725	43.14	PK	34.6	-19.9	0	57.84	78.2	-20.36	2	215	H

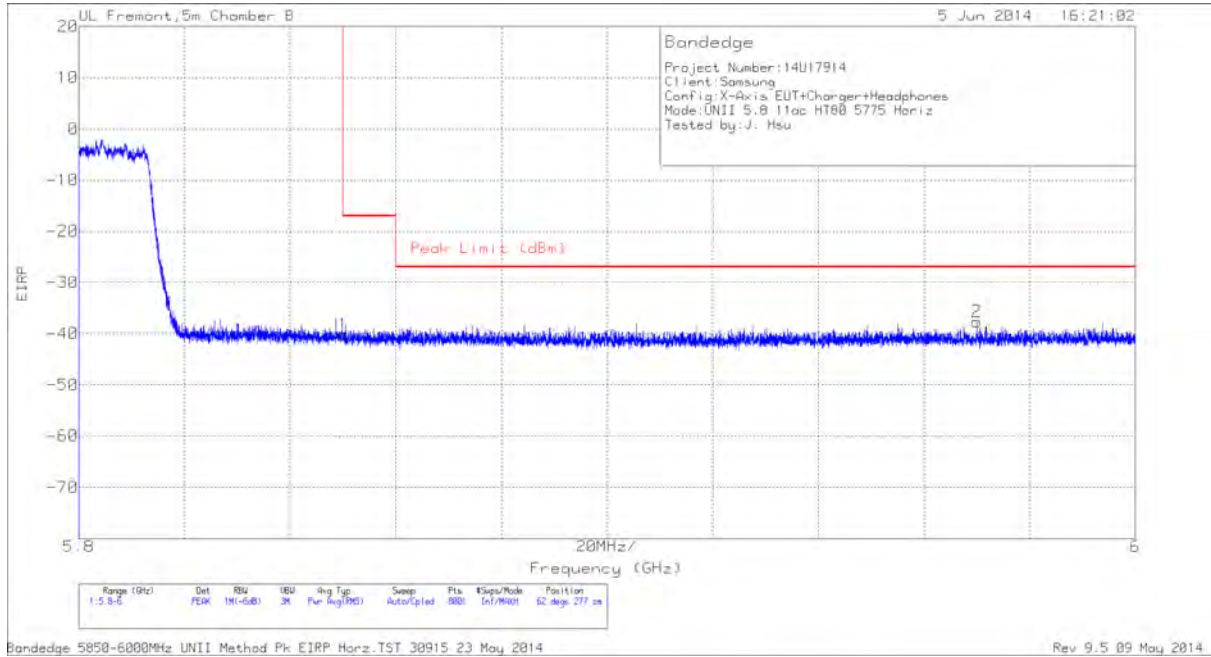
PK - Peak detector



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.704	44.07	PK	34.5	-20	0	58.57	68.2	-9.63	90	280	V
1	5.725	43.29	PK	34.6	-19.9	0	57.99	78.2	-20.21	90	280	V

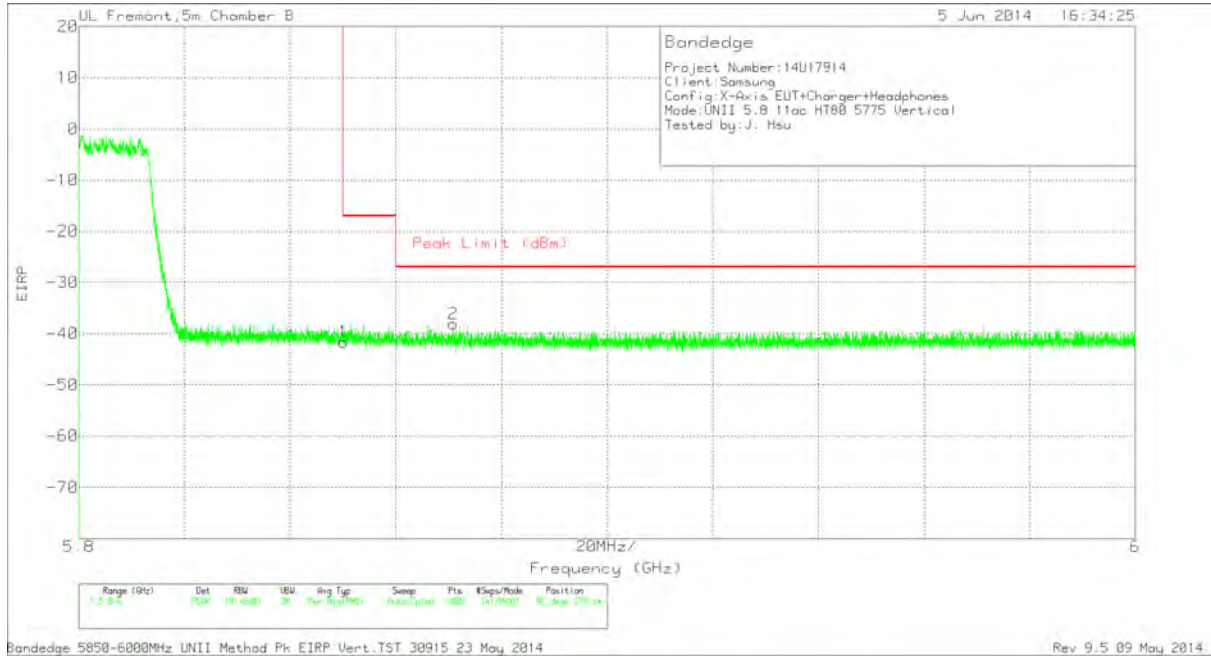
PK - Peak detector



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT345 (dB/m)	Amp/Cb/ Ftr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-67	PK	34.8	-19.8	11.8	0	-40.2	-17	-23.2	62	277	H
2	5.97	-65.33	PK	35.2	-19.3	11.8	0	-37.63	-27	-10.63	62	277	H

PK - Peak detector

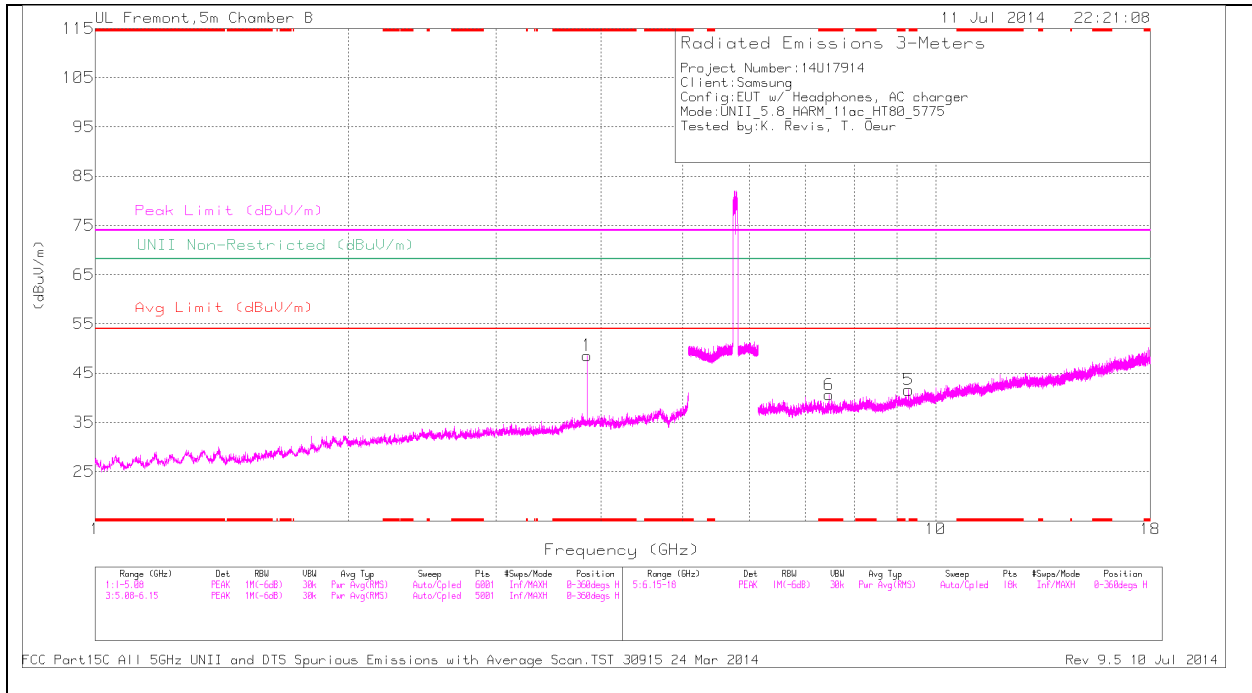


Trace Markers

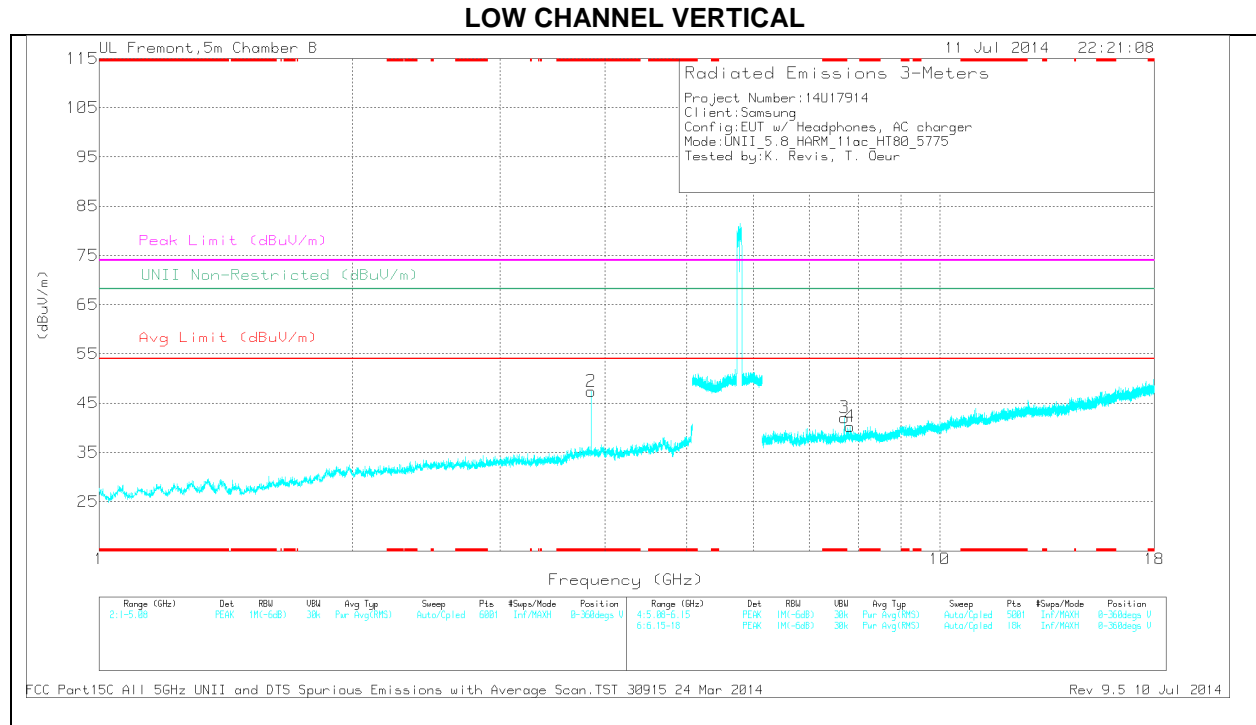
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT345 (dB/m)	Amp/Cb/ Ftr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-68.4	PK	34.8	-19.8	11.8	0	-41.6	-17	-24.6	92	279	V
2	5.871	-65.2	PK	34.9	-19.6	11.8	0	-38.1	-27	-11.1	92	279	V

PK - Peak detector

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.



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

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.85	46.17	PK	33.7	-31.3	0	48.57	-	-	74	-25.43	-	-	0-360	99	H
2	* 3.85	45.01	PK	33.7	-31.3	0	47.41	-	-	74	-26.59	-	-	0-360	99	V
6	* 7.473	31.42	PK	35.6	-26.4	0	40.62	-	-	74	-33.38	-	-	0-360	206	H
3	* 7.7	33.57	PK	35.7	-27.2	0	42.07	-	-	74	-31.93	-	-	0-360	195	V
4	7.826	30.68	PK	35.7	-26.1	0	40.28	-	-	-	-	68.2	-27.92	0-360	195	V
5	9.284	29.99	PK	36.4	-24.8	0	41.59	-	-	-	-	68.2	-26.61	0-360	99	H

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.85	49.67	PK1	33.7	-31.3	0	52.07	-	-	74	-21.93	-	-	295	252	H
* 3.85	46.36	AD1	33.7	-31.3	1.83	50.59	54	-3.41	-	-	-	-	295	252	H
* 3.85	50.27	PK1	33.7	-31.3	0	52.67	-	-	74	-21.33	-	-	261	259	V
* 3.85	47.06	AD1	33.7	-31.3	1.83	51.29	54	-2.71	-	-	-	-	261	259	V
* 7.474	38.25	PK1	35.6	-26.4	0	47.45	-	-	74	-26.55	-	-	302	214	H
* 7.7	38.77	PK1	35.7	-27.2	0	47.27	-	-	74	-26.73	-	-	302	243	V
* 7.7	28.24	AD1	35.7	-27.2	1.83	38.57	54	-15.43	-	-	-	-	302	243	V
7.827	37.46	PK1	35.7	-26.2	0	46.96	-	-	-	-	68.2	-21.24	302	188	V
9.283	35.82	PK1	36.4	-24.8	0	47.42	-	-	-	-	68.2	-20.78	302	100	H

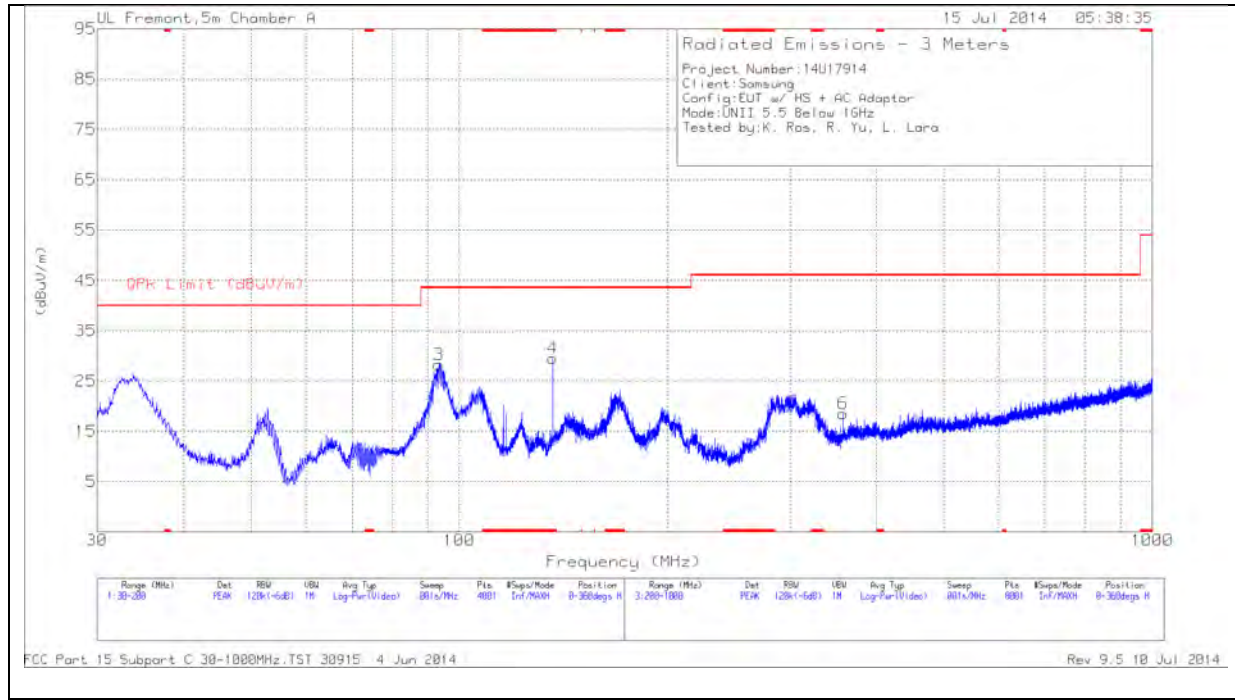
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

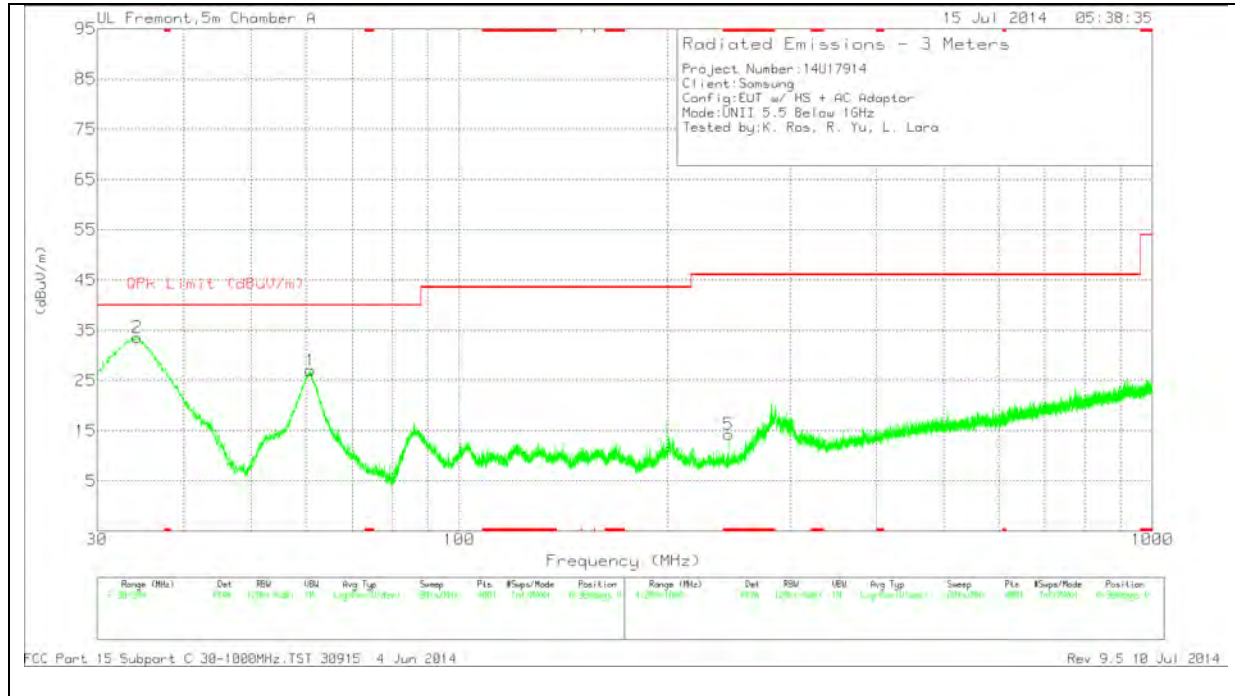
AD1 - KDB789033 Method: AD Primary Power Average

12. WORST-CASE BELOW 1 GHz

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



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



Below 1G Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AFT130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 136.2925	46.23	PK	13.6	-30.3	29.53	43.52	-13.99	0-360	400	H
5	* 244.6	32.21	PK	11.6	-29.5	14.31	46.02	-31.71	0-360	200	V
2	34.2925	46.16	PK	18.6	-31.2	33.56	40	-6.44	0-360	100	V
1	60.9825	49.82	PK	7.8	-30.6	27.02	40	-12.98	0-360	100	V
3	93.3675	50.27	PK	8.4	-30.4	28.27	43.52	-15.25	0-360	200	H
6	358	32.87	PK	14.6	-28.9	18.57	46.02	-27.45	0-360	200	H

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

PK - Peak detector

13. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 7.2.2

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

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

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

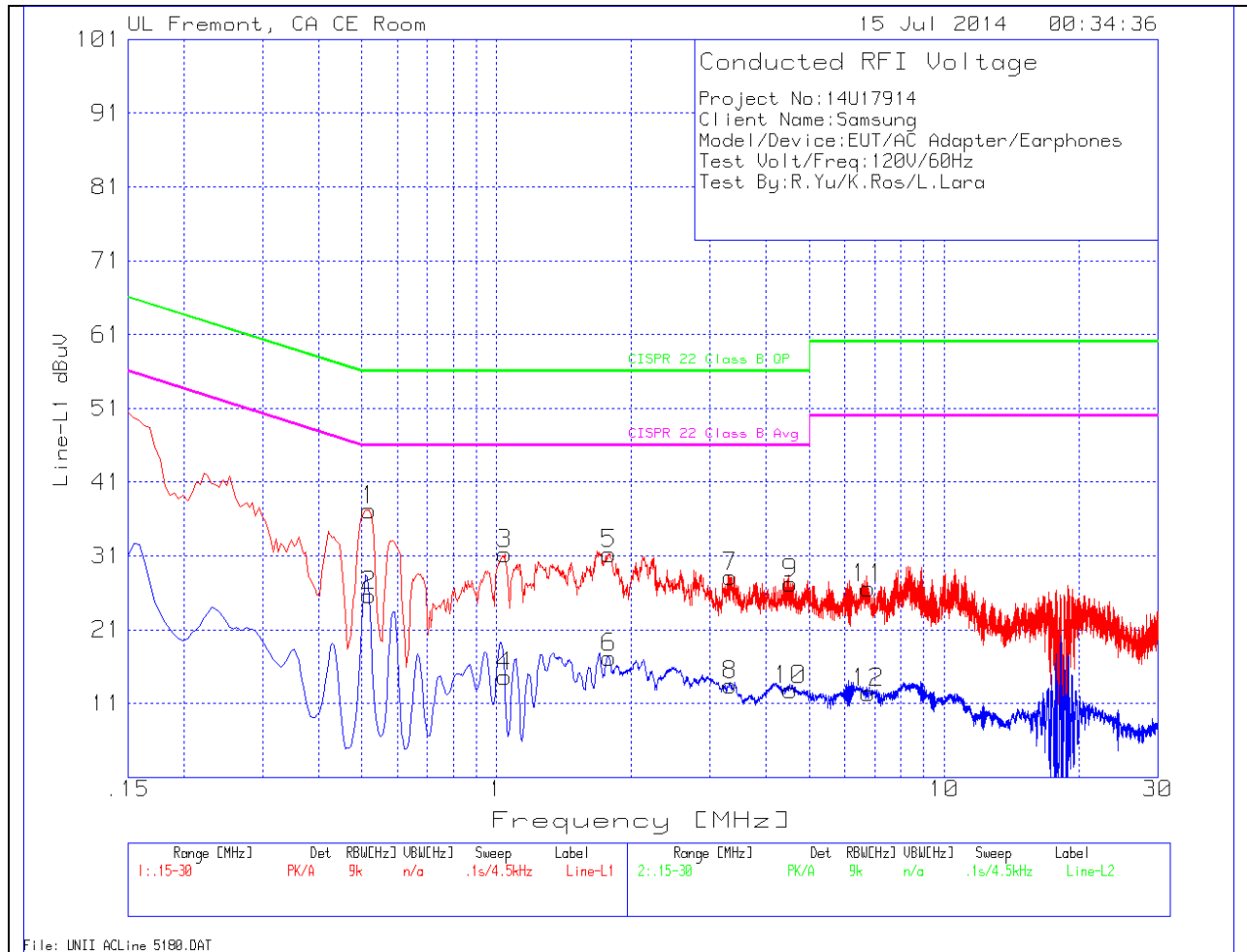
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT



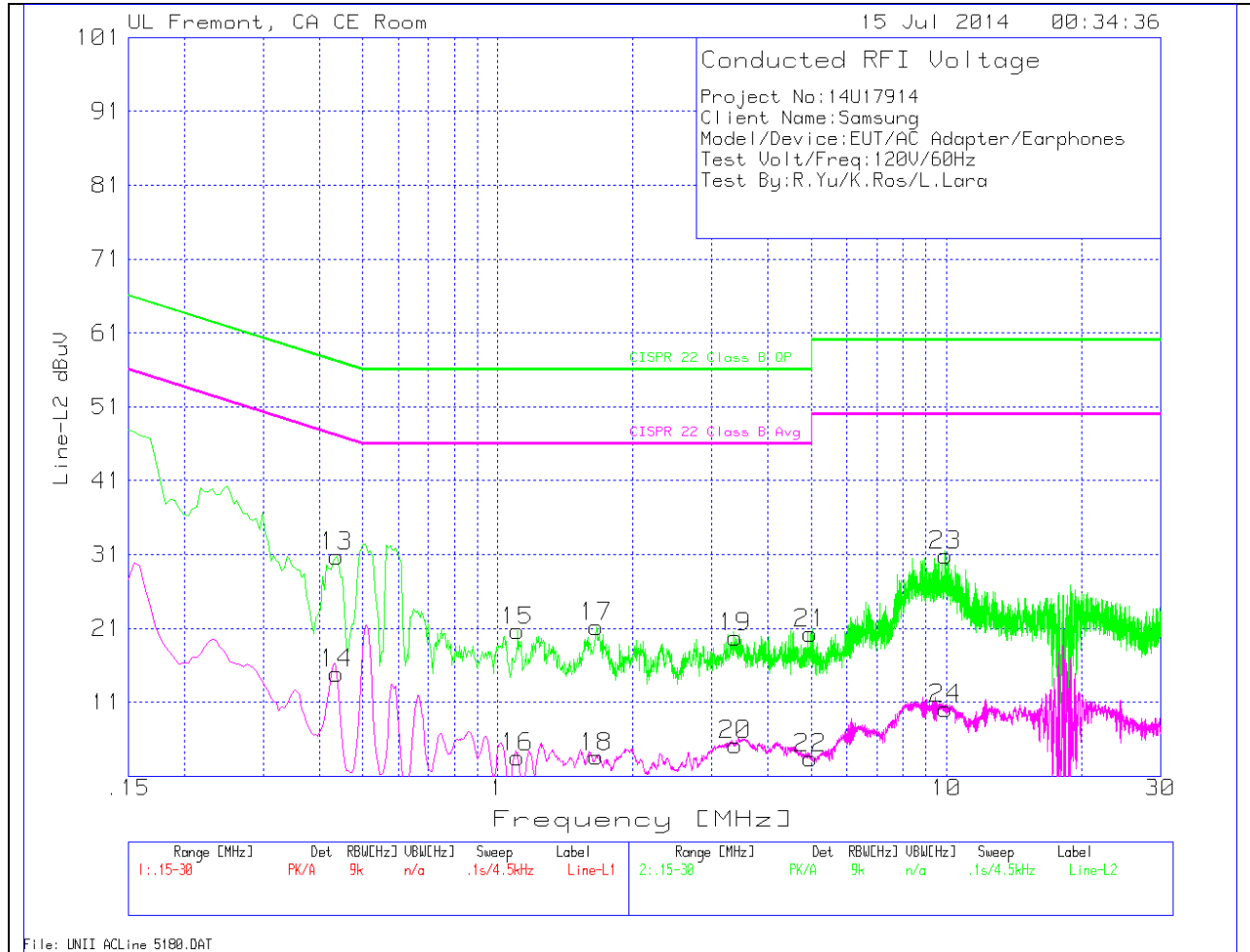
LINE 1 RESULTS

Line-L1 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
1	.519	36.93	PK	.3	0	37.23	56	-18.77	-	-
2	.519	25.34	Av	.3	0	25.64	-	-	46	-20.36
3	1.041	31.04	PK	.2	0	31.24	56	-24.76	-	-
4	1.041	14.48	Av	.2	0	14.68	-	-	46	-31.32
5	1.7835	31	PK	.2	.1	31.3	56	-24.7	-	-
6	1.7835	16.96	Av	.2	.1	17.26	-	-	46	-28.74
7	3.327	27.83	PK	.2	.1	28.13	56	-27.87	-	-
8	3.327	13.21	Av	.2	.1	13.51	-	-	46	-32.49
9	4.5375	26.99	PK	.2	.1	27.29	56	-28.71	-	-
10	4.5375	12.5	Av	.2	.1	12.8	-	-	46	-33.2
11	6.783	26.34	PK	.2	.1	26.64	60	-33.36	-	-
12	6.783	12.08	Av	.2	.1	12.38	-	-	50	-37.62

LINE 2 PLOT



LINE 2 RESULTS

Line-L2 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dBUV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
13	.438	30.31	PK	.4	0	30.71	57.1	-26.39	-	-
14	.438	14.44	Av	.4	0	14.84	-	-	47.1	-32.26
15	1.1085	20.32	PK	.3	0	20.62	56	-35.38	-	-
16	1.1085	3.19	Av	.3	0	3.49	-	-	46	-42.51
17	1.662	20.9	PK	.2	.1	21.2	56	-34.8	-	-
18	1.662	3.3	Av	.2	.1	3.6	-	-	46	-42.4
19	3.381	19.43	PK	.2	.1	19.73	56	-36.27	-	-
20	3.381	4.9	Av	.2	.1	5.2	-	-	46	-40.8
21	4.974	20.02	PK	.2	.1	20.32	56	-35.68	-	-
22	4.974	3.13	Av	.2	.1	3.43	-	-	46	-42.57
23	9.9465	30.49	PK	.2	.2	30.89	60	-29.11	-	-
24	9.9465	9.7	Av	.2	.2	10.1	-	-	50	-39.9

PK - Peak detector

Av - average detection

14. DYNAMIC FREQUENCY SELECTION

14.1. OVERVIEW

14.1.1. LIMITS

INDUSTRY CANADA

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

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

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

FCC

§15.407 (h) and FCC 06-96 APPENDIX "COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVCIES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION".

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
Uniform Spreading	Yes	Not required	Not required

Table 2: Applicability of DFS requirements during normal operation

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

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

Maximum Transmit Power	Value
	(see note)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Table 4: DFS Response requirement values

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

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (Microseconds)	PRI (Microseconds)	Pulses	Minimum Percentage of Successful Detection	Minimum Trials
1	1	1428	18	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30

Aggregate (Radar Types 1-4)	80%	120
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Table 6 – Long Pulse Radar Test Signal

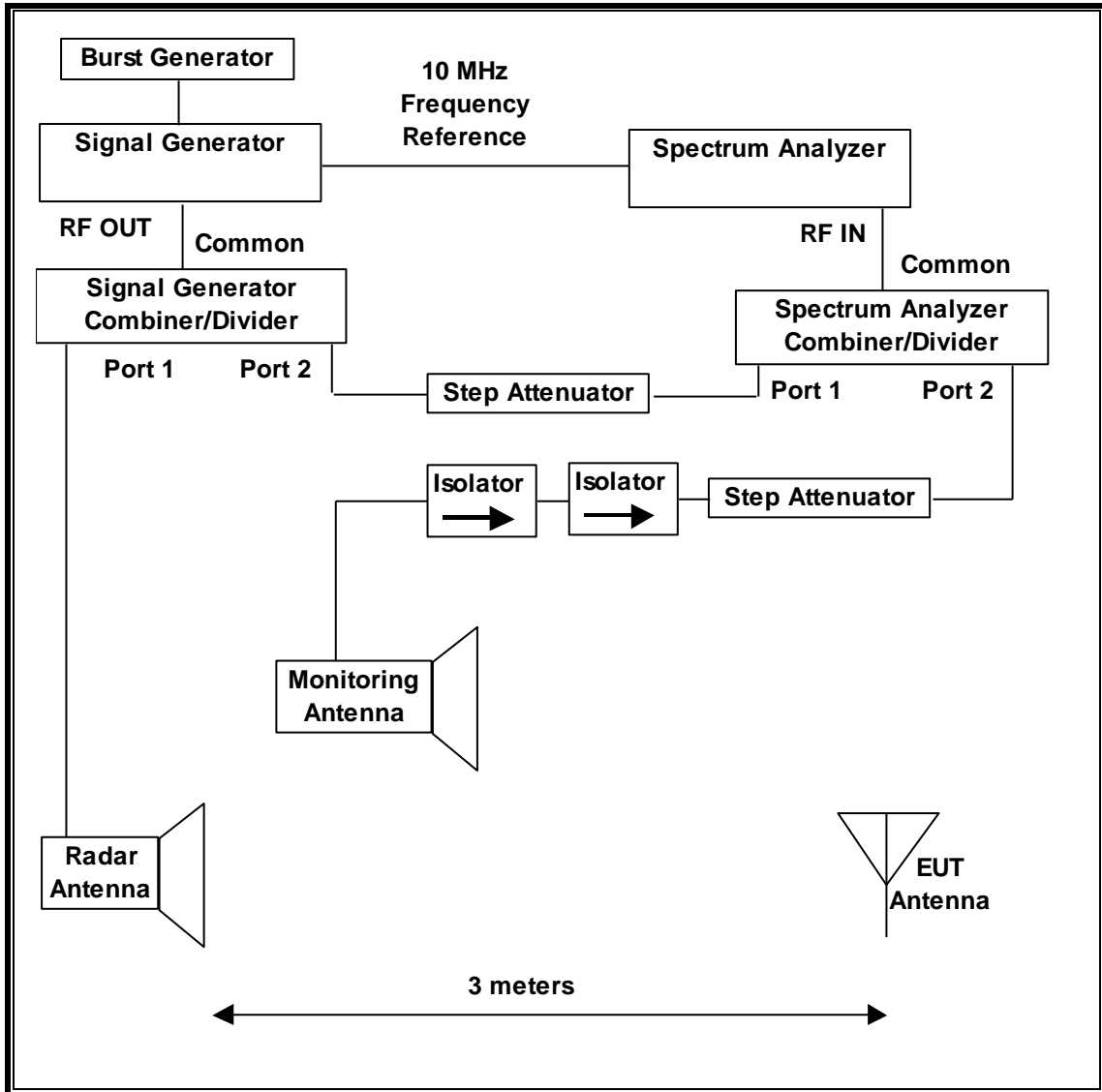
Radar Waveform	Bursts	Pulses per Burst	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Minimum Percentage of Successful Detection	Minimum Trials
5	8-20	1-3	50-100	5-20	1000-2000	80%	30

Table 7 – Frequency Hopping Radar Test Signal

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

14.1.2. TEST AND MEASUREMENT SYSTEM

RADIATED METHOD SYSTEM BLOCK DIAGRAM



SYSTEM OVERVIEW

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

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

The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List. The initial starting point randomized at run-time and each subsequent starting point is incremented by 475. Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of FCC 06-96 APPENDIX. The frequency of the signal generator is incremented in 1 MHz steps from F_L to F_H for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

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

SYSTEM CALIBRATION

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

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

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

ADJUSTMENT OF DISPLAYED TRAFFIC LEVEL

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

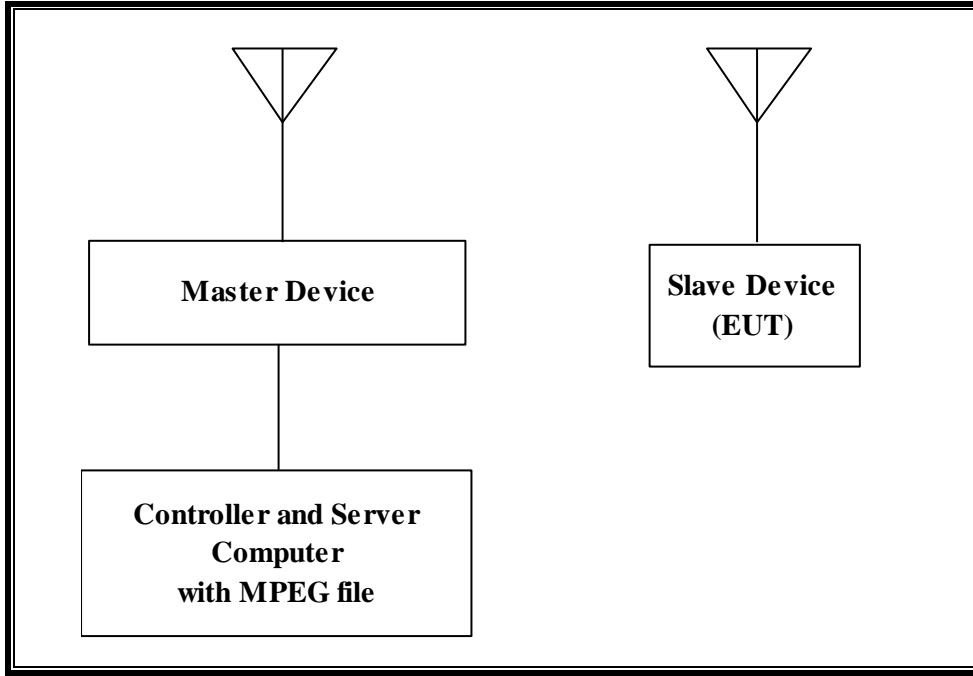
TEST AND MEASUREMENT EQUIPMENT

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

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

14.1.3. 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
Wireless Access Point	Cisco	AIR-AP1252AG-A-K9	FTX120690N2	LDK102061
AC Adapter (AP)	Delta Electronics	EADP-45BB B	DTH112490BD	DoC
Notebook PC (Controller/Server)	Dell	PP18L	10657517725	DoC
AC Adapter (Controller/Server PC)	Dell	LA65SN0-00	CN-ODF263-71615-6AU-1019	DoC

14.1.4. DESCRIPTION OF EUT

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 16.33 dBm EIRP in the 5250-5350 MHz band and 16.01 dBm EIRP in the 5470-5725 MHz band.

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

WLAN traffic is generated by streaming the video file TestFile.mp2 "6 ½ Magic Hours" from the Master to the Slave in full motion video mode using MX Player version 1.7.22 media play.

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. However, pursuant to FCC KDB Publication 848637, "Client devices with 80 MHz BW mode can be tested with an approved master operating in 40 MHz BW mode". Therefore, 80MHz BW DFS testing was not performed and has been excluded from this report.

The software installed in the access point is 2.4(25d)JA1.

UNIFORM CHANNEL SPREADING

This requirement is not applicable to Slave radio devices.

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

The Master Device is a Cisco Access Point, FCC ID: LDK102061. The minimum antenna gain for the Master Device is 3.5 dBi.

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

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

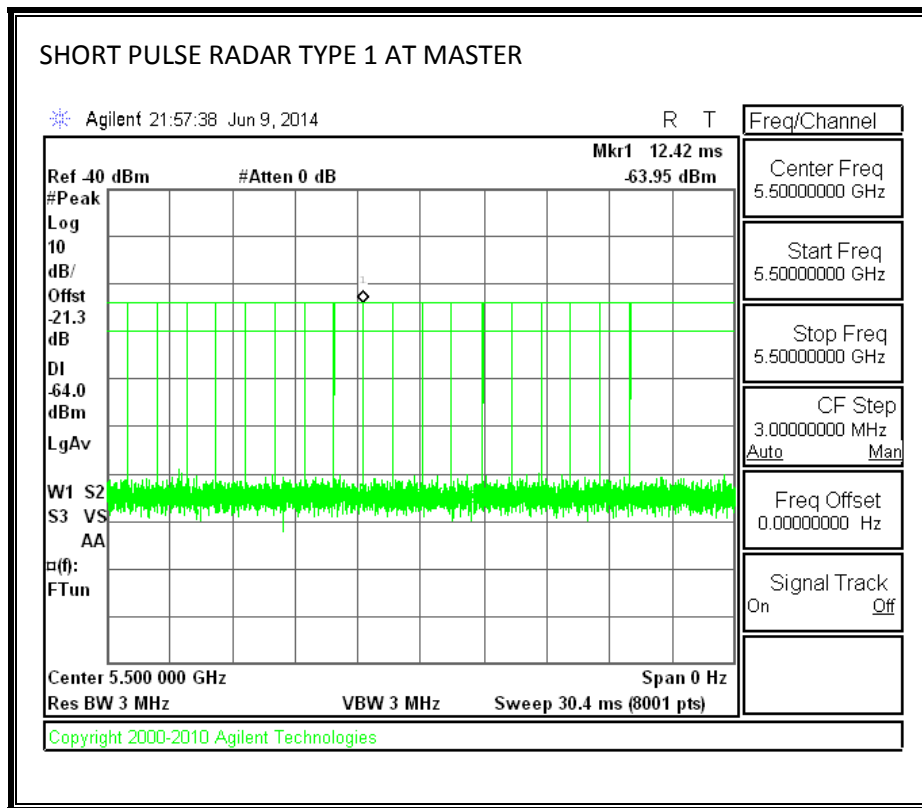
14.2. RESULTS FOR 20 MHz BANDWIDTH

14.2.1. TEST CHANNEL

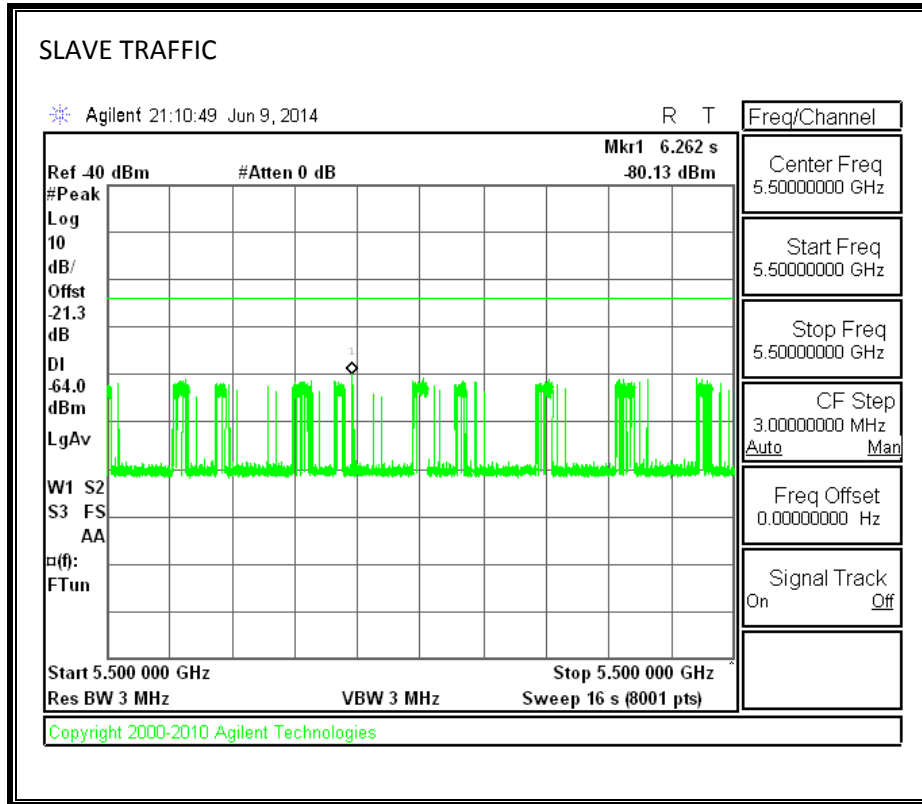
All tests were performed at a channel center frequency of 5500 MHz.

14.2.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



TRAFFIC



14.2.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

14.2.4. 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)

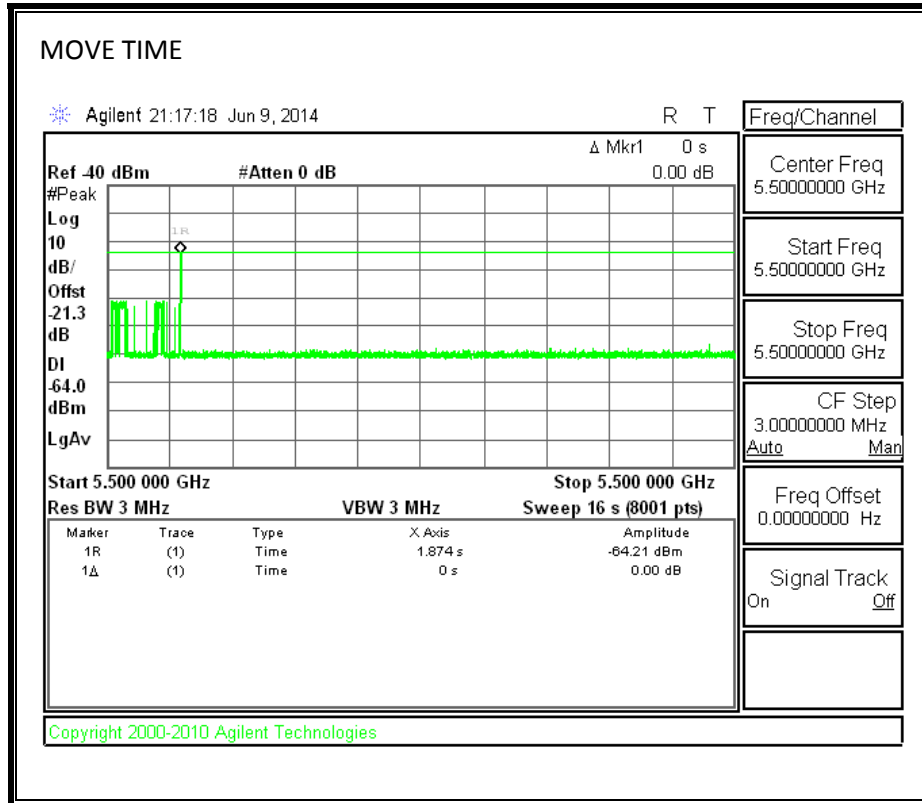
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

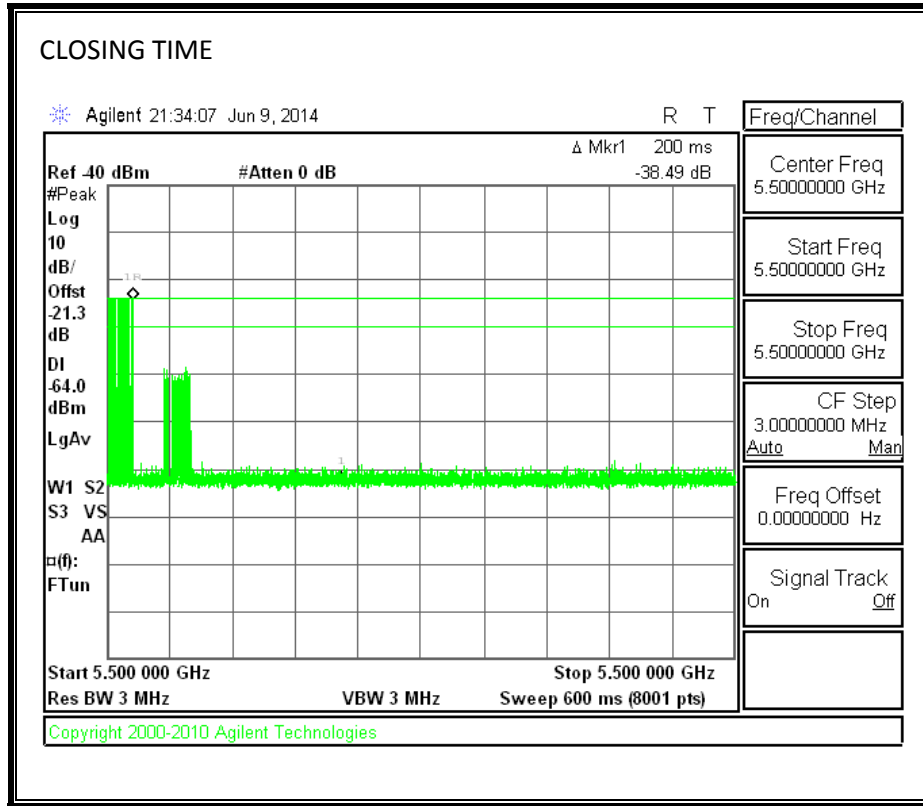
Channel Move Time (sec)	Limit (sec)
0.000	10

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

MOVE TIME

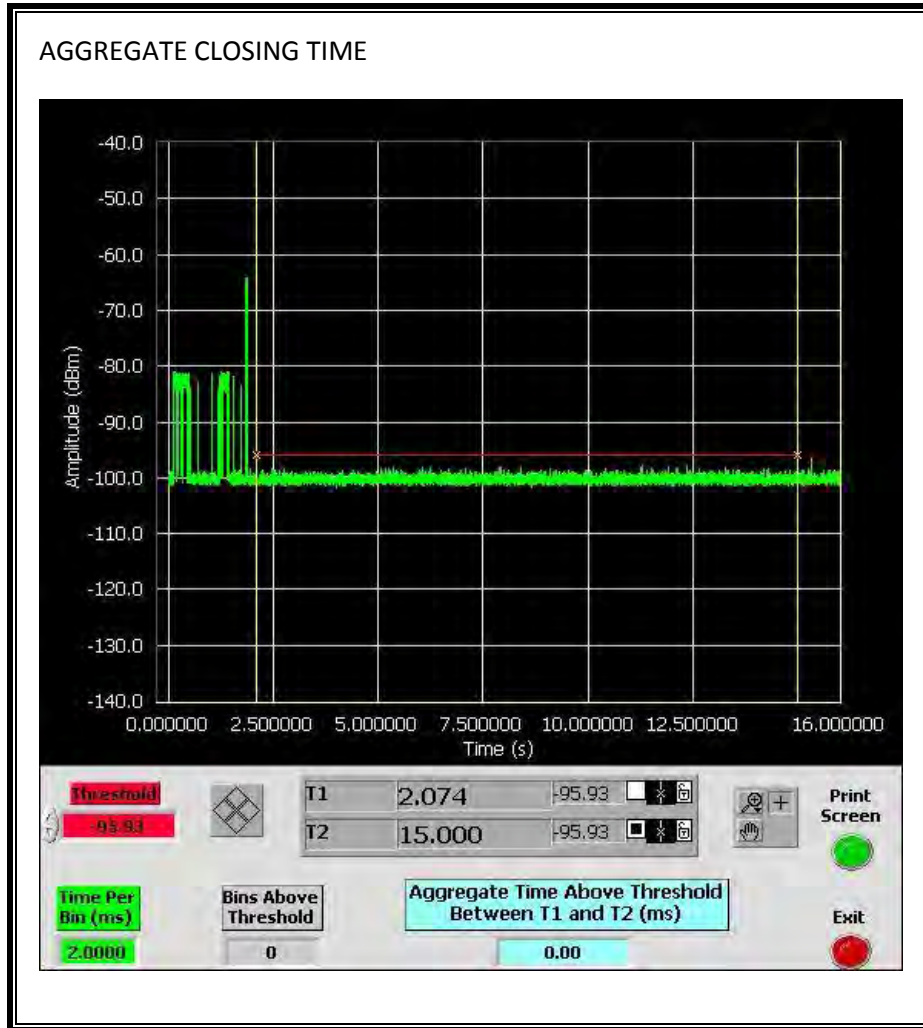


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



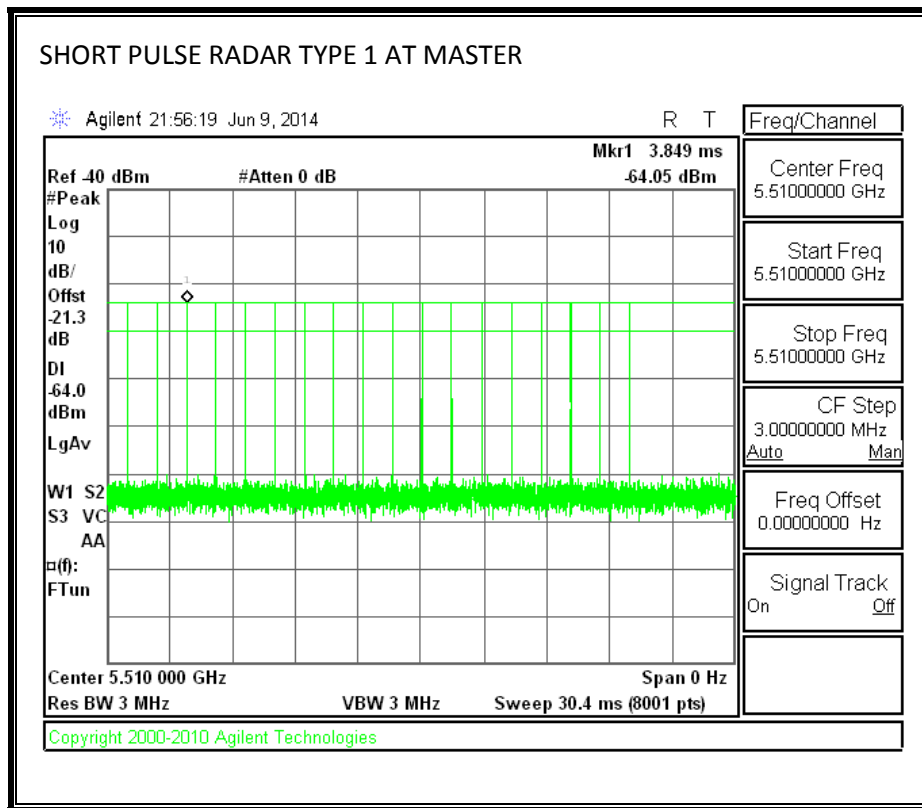
14.3. RESULTS FOR 40 MHz BANDWIDTH

14.3.1. TEST CHANNEL

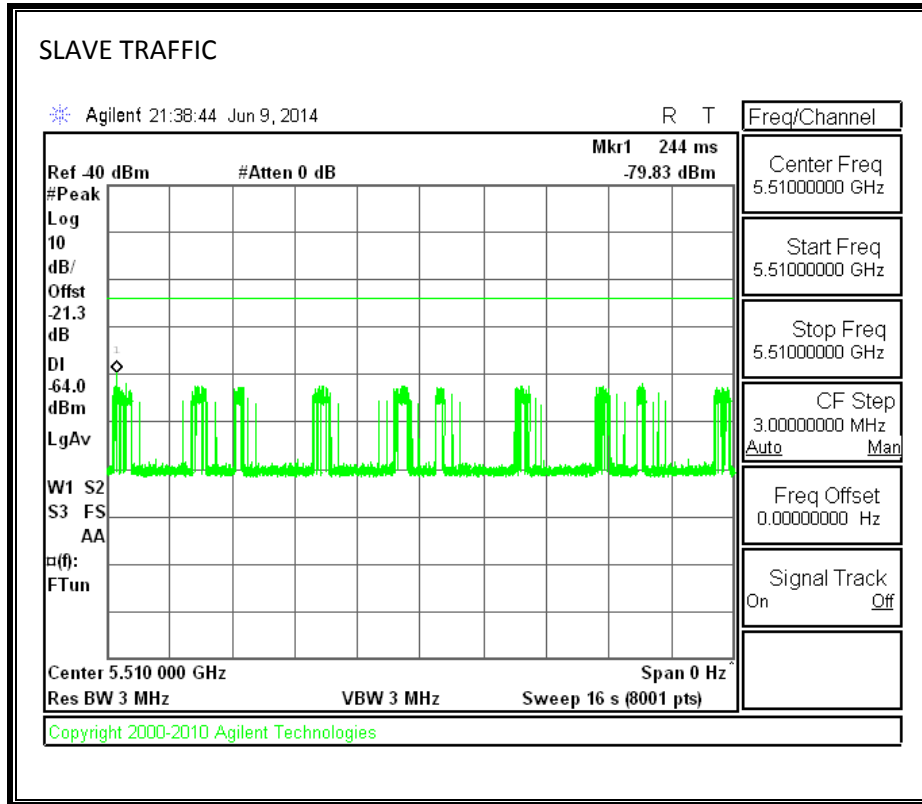
All tests were performed at a channel center frequency of 5510 MHz.

14.3.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



TRAFFIC



14.3.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

14.3.4. 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)

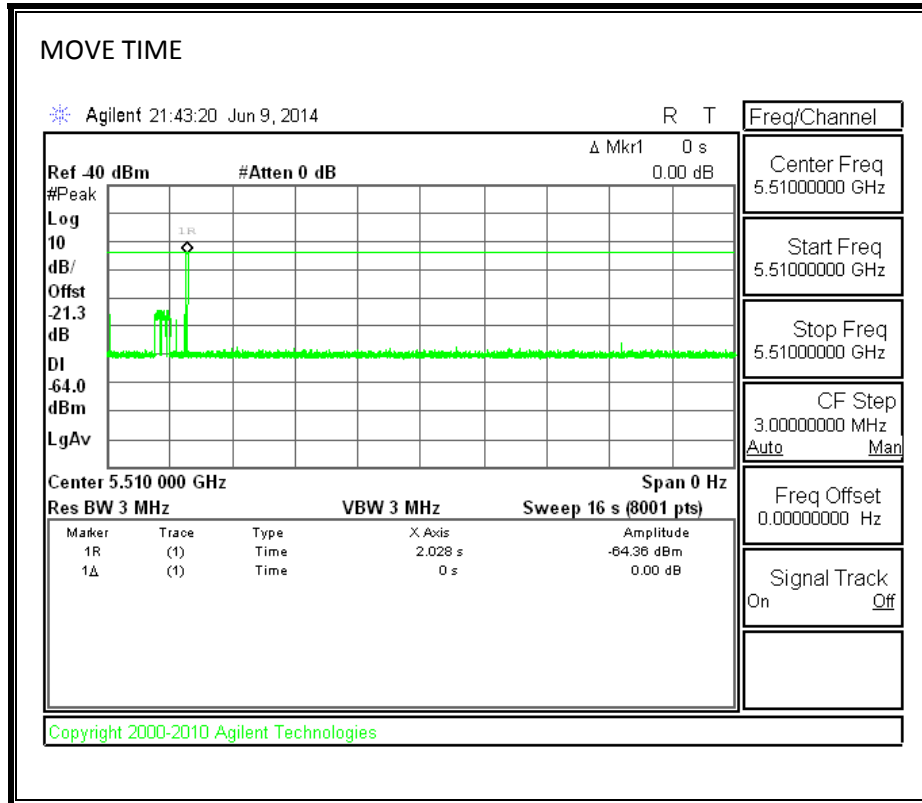
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

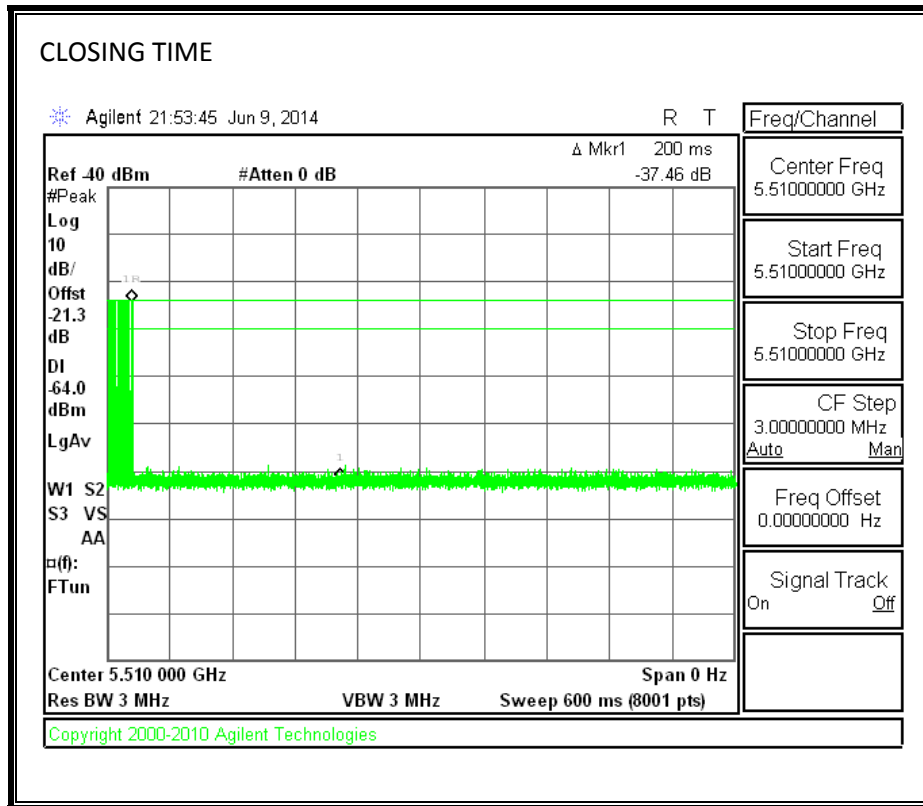
Channel Move Time (sec)	Limit (sec)
0.000	10

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

MOVE TIME

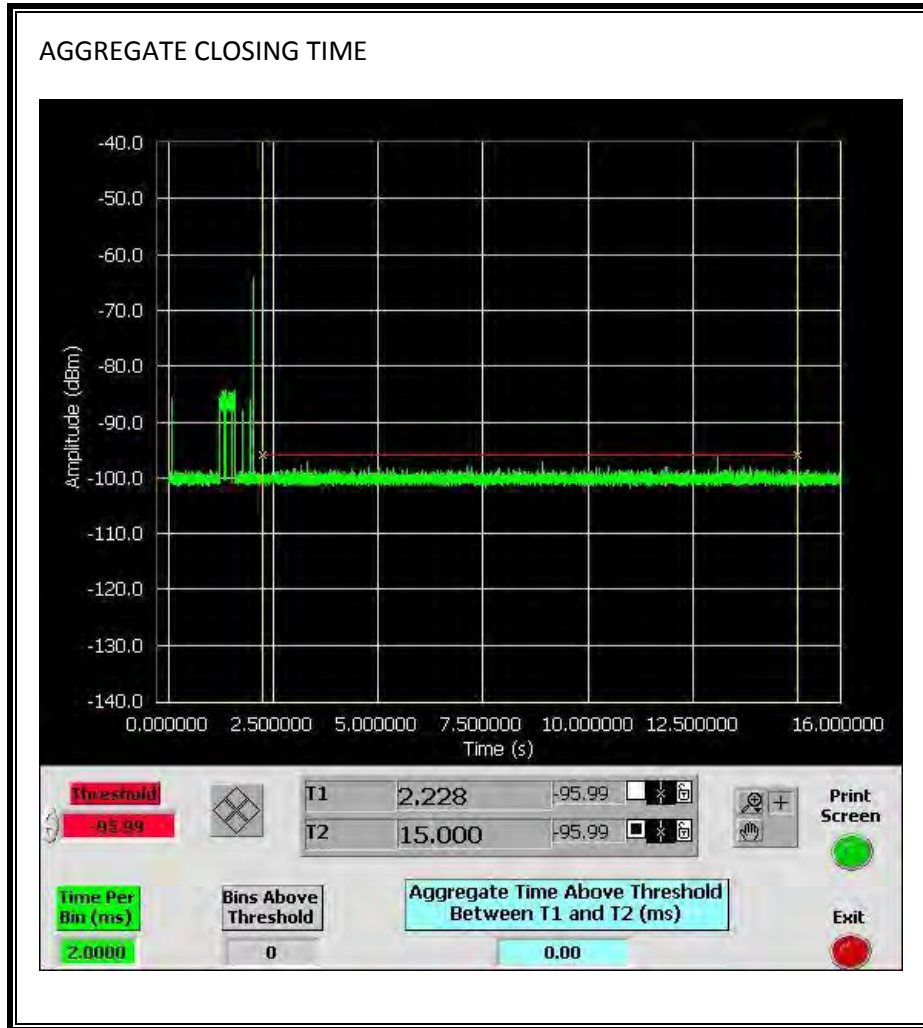


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



14.3.5. NON-OCCUPANCY PERIOD

RESULTS

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

