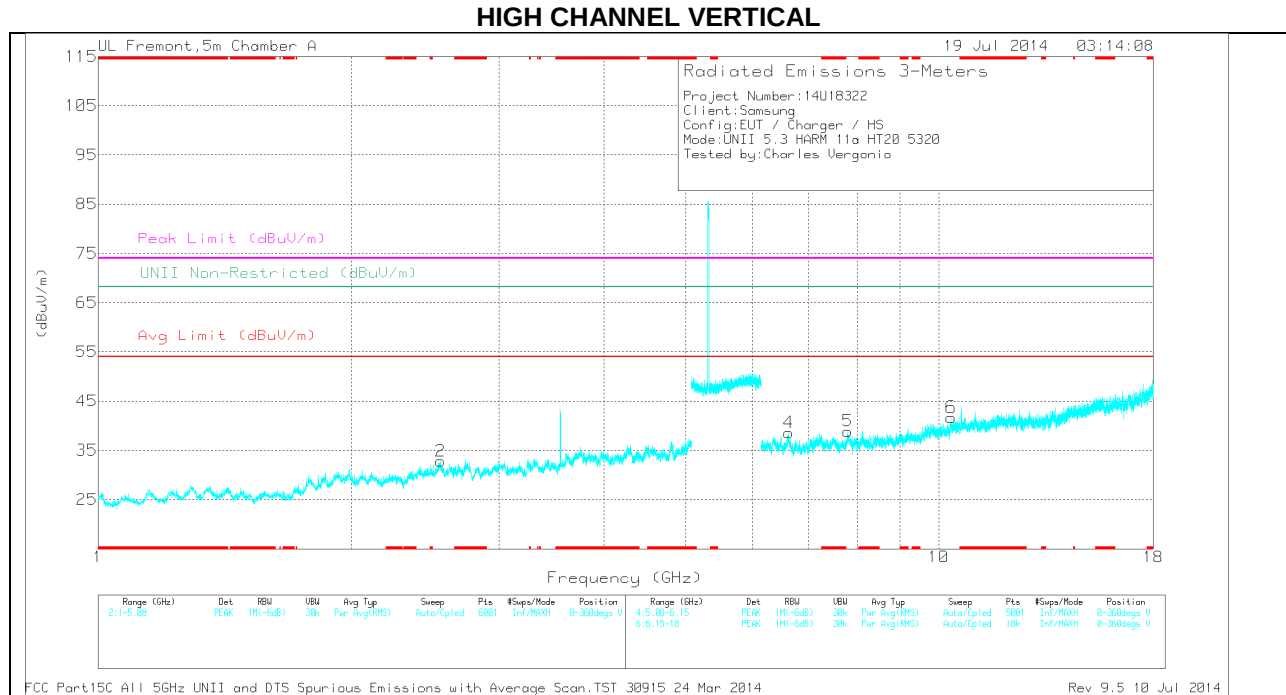




Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

TRACE MARKERS

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
3	* 3.547	47.34	PK	33.1	-31.3	0	49.14	-	-	74	-24.86	-	-	0-360	100	H
1	1.925	33.86	PK	31.8	-34.6	0	31.06	-	-	-	-	68.2	-37.14	0-360	100	H
2	2.554	32.73	PK	32.9	-32.8	0	32.83	-	-	-	-	68.2	-35.37	0-360	201	V
4	6.629	28.99	PK	35.4	-25.8	0	38.59	-	-	-	-	68.2	-29.61	0-360	100	V
5	7.797	28.59	PK	35.5	-25.2	0	38.89	-	-	-	-	68.2	-29.31	0-360	100	V
6	10.347	26.57	PK	37.3	-22.2	0	41.67	-	-	-	-	68.2	-26.53	0-360	100	V

PK - Peak detector

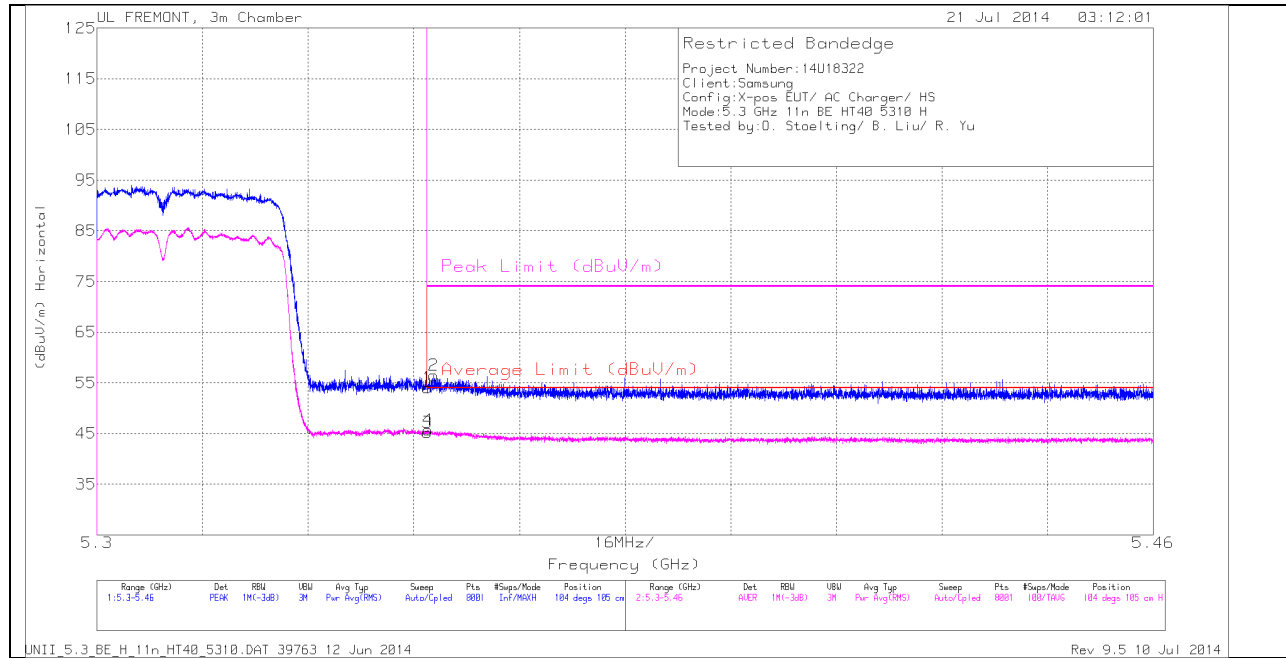
RADIATED EMISSIONS

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
* 3.547	49.43	PK1	33.1	-31.3	0	51.23	-	-	74	-22.77	-	-	184	170	H
* 3.547	47.04	AD1	33.1	-31.3	.33	49.17	54	-4.83	-	-	-	-	184	170	H

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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



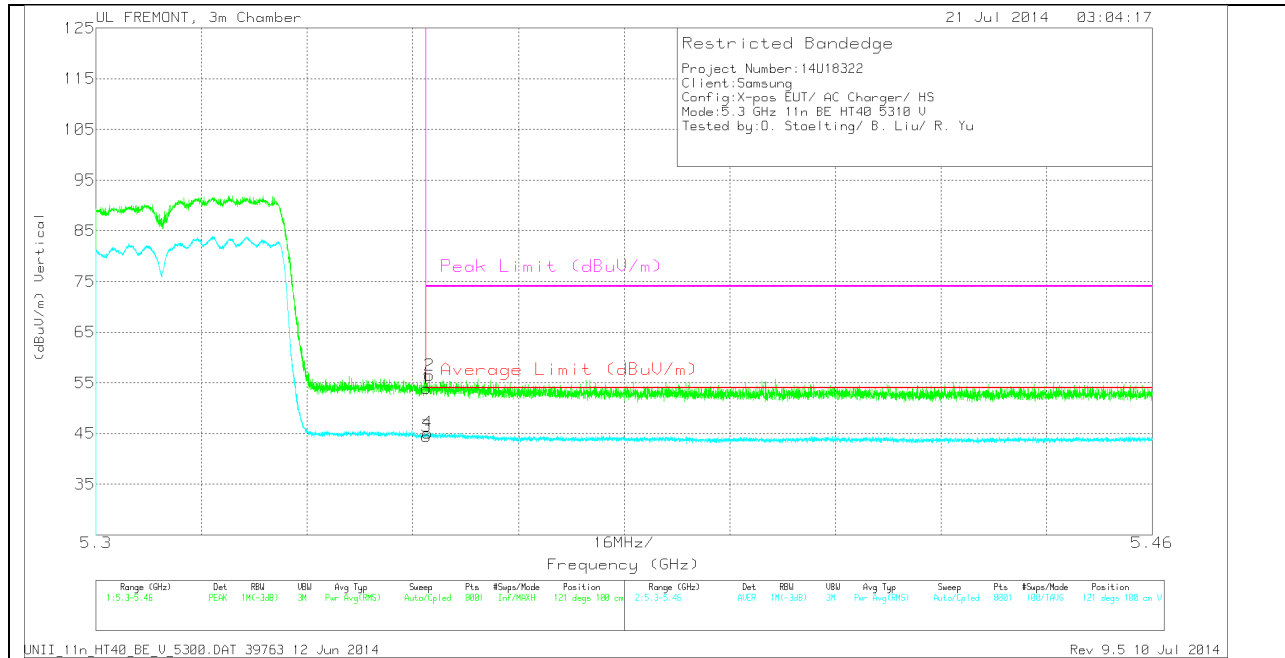
HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (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	40.9	PK	34.5	-21.4	0	54	-	-	74	-20	104	105	H
3	5.35	31.47	RMS	34.5	-21.4	.61	45.18	54	-8.82	-	-	104	105	H
4	5.35	31.96	RMS	34.5	-21.4	.61	45.67	54	-8.33	-	-	104	105	H
2	5.351	43.34	PK	34.5	-21.4	0	56.44	-	-	74	-17.56	104	105	H

PK - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

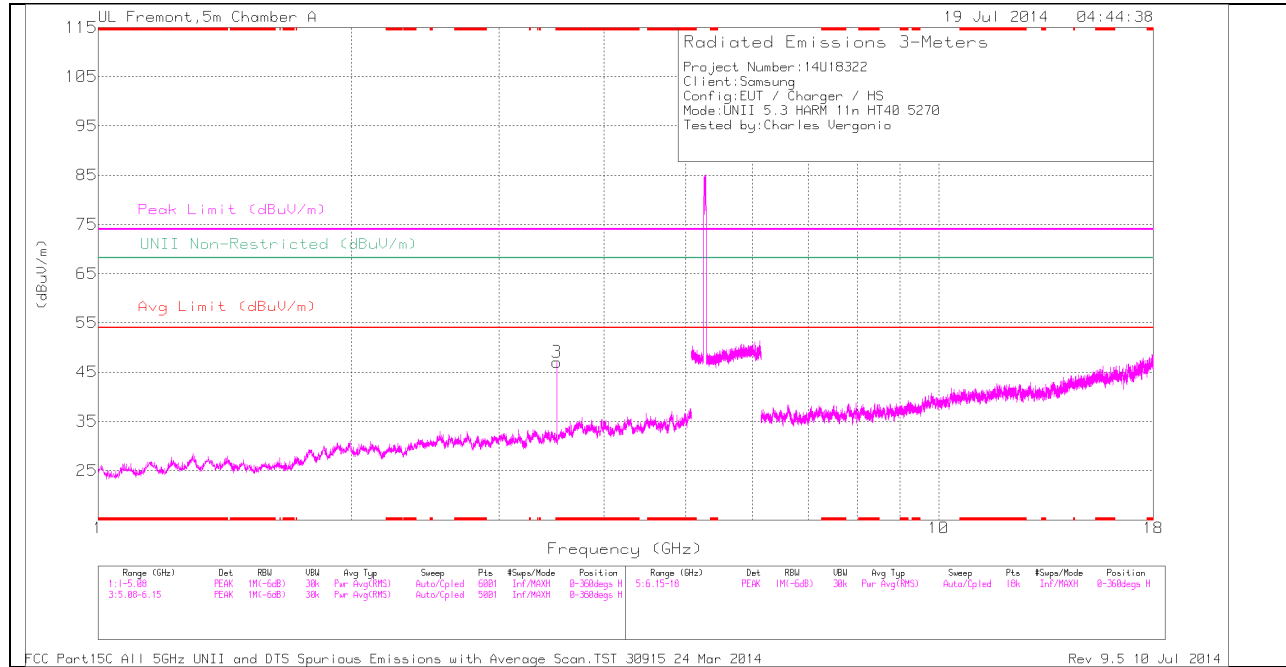
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.35	40.84	PK	34.5	-21.4	0	53.94	-	-	74	-20.06	121	100	V
3	5.35	30.8	RMS	34.5	-21.4	.61	44.51	54	-9.49	-	-	121	100	V
4	5.35	31.43	RMS	34.5	-21.4	.61	45.14	54	-8.86	-	-	121	100	V
2	5.351	43.43	PK	34.5	-21.4	0	56.53	-	-	74	-17.47	121	100	V

PK - Peak detector

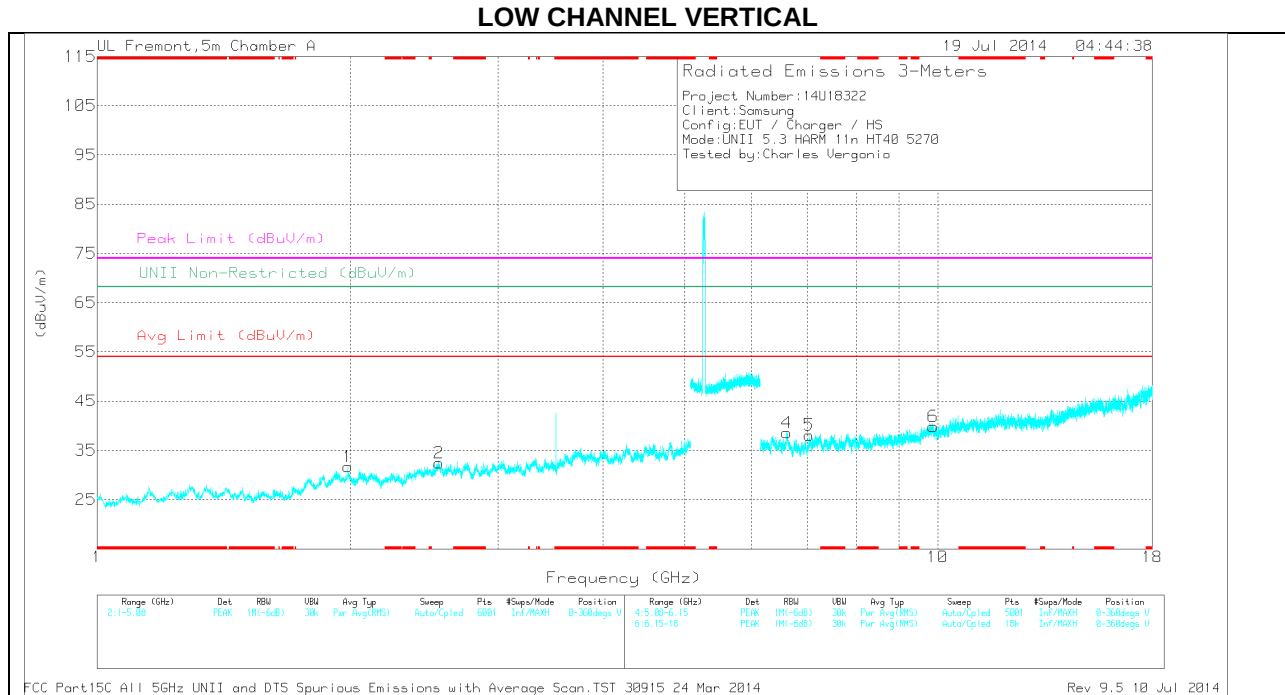
RMS - RMS detection

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.



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

TRACE MARKERS

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
3	* 3.513	46.15	PK	33.1	-32.2	0	47.05	-	-	74	-26.95	-	-	0-360	100	H
1	1.987	34.17	PK	32	-34.5	0	31.67	-	-	-	-	68.2	-36.53	0-360	100	V
2	2.552	32.14	PK	32.9	-32.6	0	32.44	-	-	-	-	68.2	-35.76	0-360	201	V
4	6.615	28.78	PK	35.5	-25.7	0	38.58	-	-	-	-	68.2	-29.62	0-360	201	V
5	7.027	29.61	PK	35.3	-26.8	0	38.11	-	-	-	-	68.2	-30.09	0-360	201	V
6	9.878	26.45	PK	37	-23.6	0	39.85	-	-	-	-	68.2	-28.35	0-360	201	V

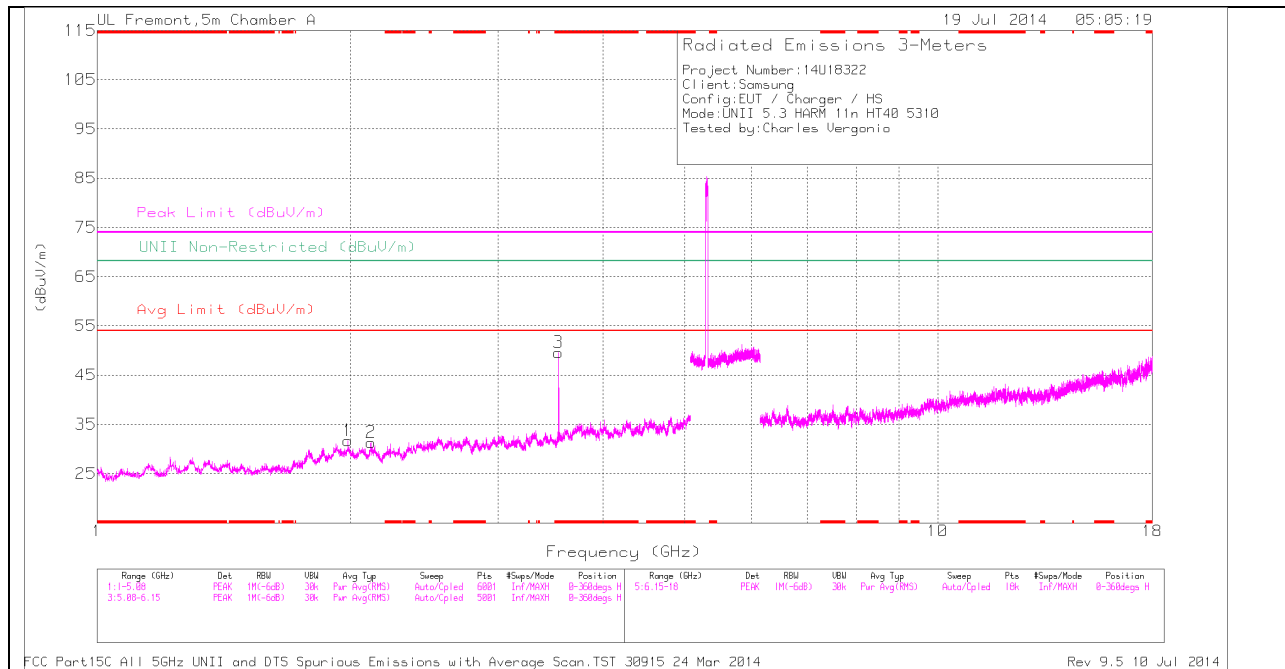
PK - Peak detector

RADIATED EMISSIONS

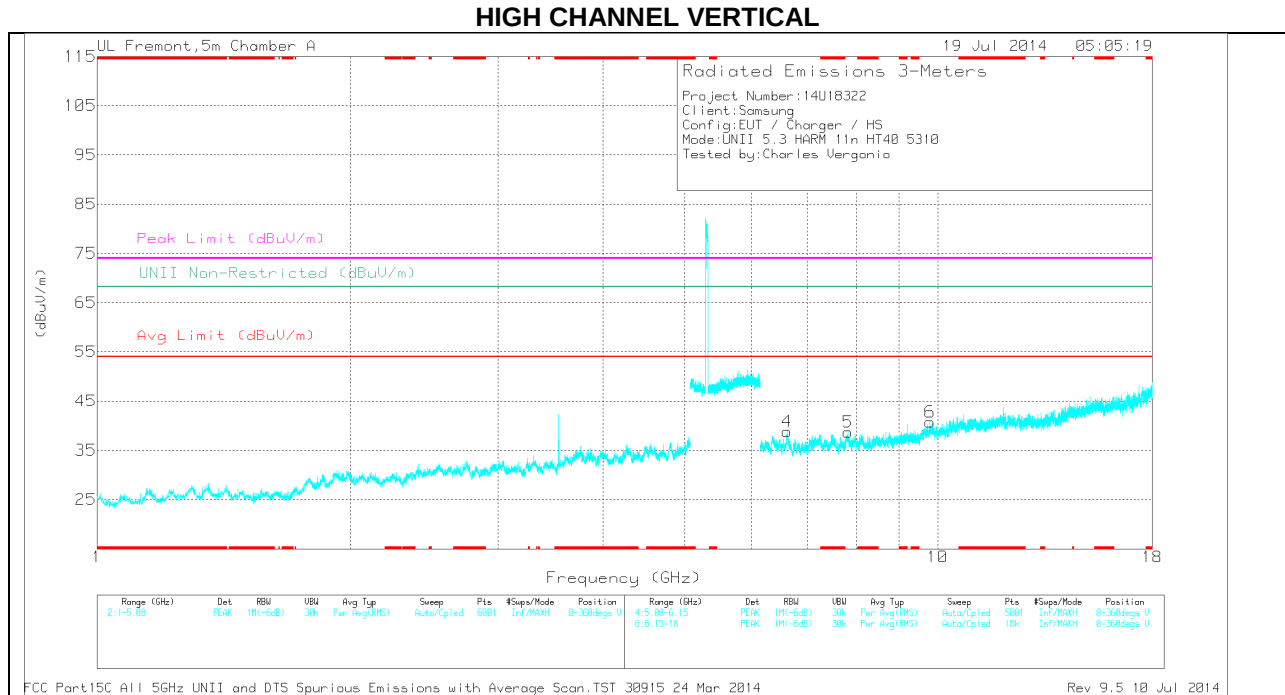
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.513	48.55	PK1	33.1	-32.2	0	49.45	-	-	74	-24.55	-	-	184	173	H
* 3.513	46.32	AD1	33.1	-32.2	.61	47.83	54	-6.17	-	-	-	-	184	173	H

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HIGH CHANNEL HORIZONTAL



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



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

TRACE MARKERS

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
3	* 3.54	48.2	PK	33.1	-31.7	0	49.6	-	-	74	-24.4	-	-	0-360	201	H
1	1.988	34.19	PK	32	-34.5	0	31.69	-	-	-	-	68.2	-36.51	0-360	201	H
2	2.117	33.74	PK	31.7	-34.1	0	31.34	-	-	-	-	68.2	-36.86	0-360	201	H
4	6.621	29.24	PK	35.5	-25.9	0	38.84	-	-	-	-	68.2	-29.36	0-360	201	V
5	7.821	27.49	PK	35.5	-24.3	0	38.69	-	-	-	-	68.2	-29.51	0-360	100	V
6	9.793	27.14	PK	36.9	-23.3	0	40.74	-	-	-	-	68.2	-27.46	0-360	100	V

PK - Peak detector

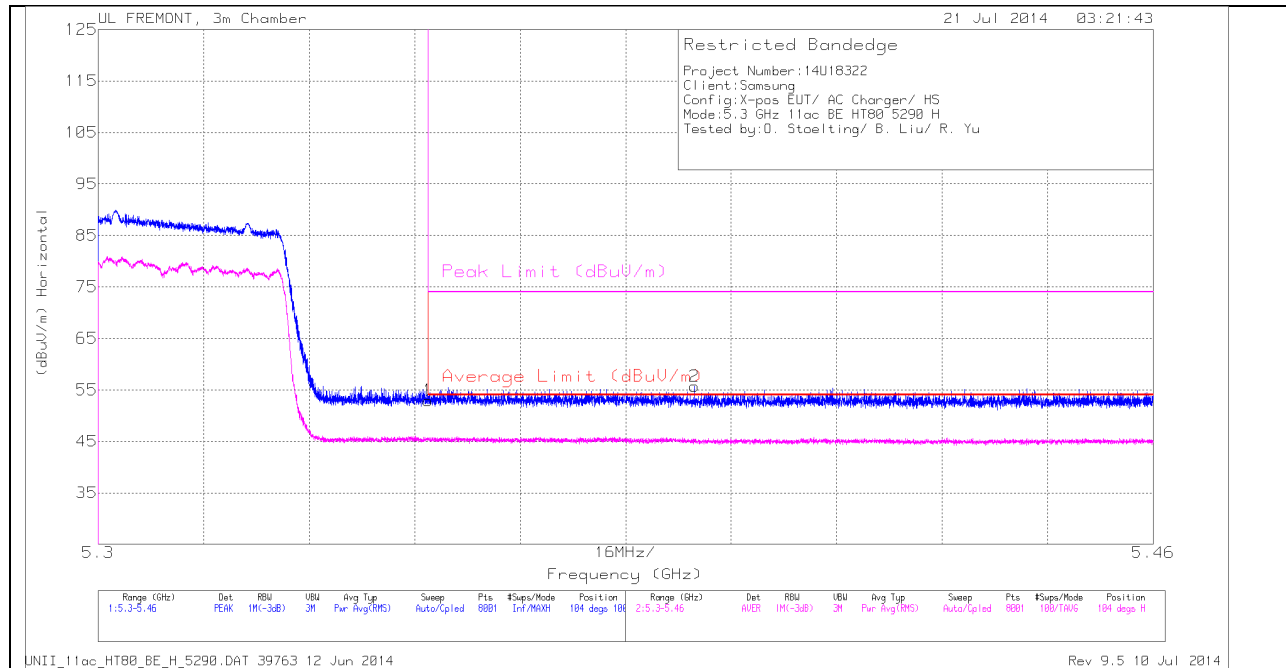
RADIATED EMISSIONS

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
* 3.54	49.79	PK1	33.1	-31.7	0	51.19	-	-	74	-22.81	-	-	184	203	H
* 3.54	47.87	AD1	33.1	-31.7	.61	49.88	54	-4.12	-	-	-	-	184	203	H

FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

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

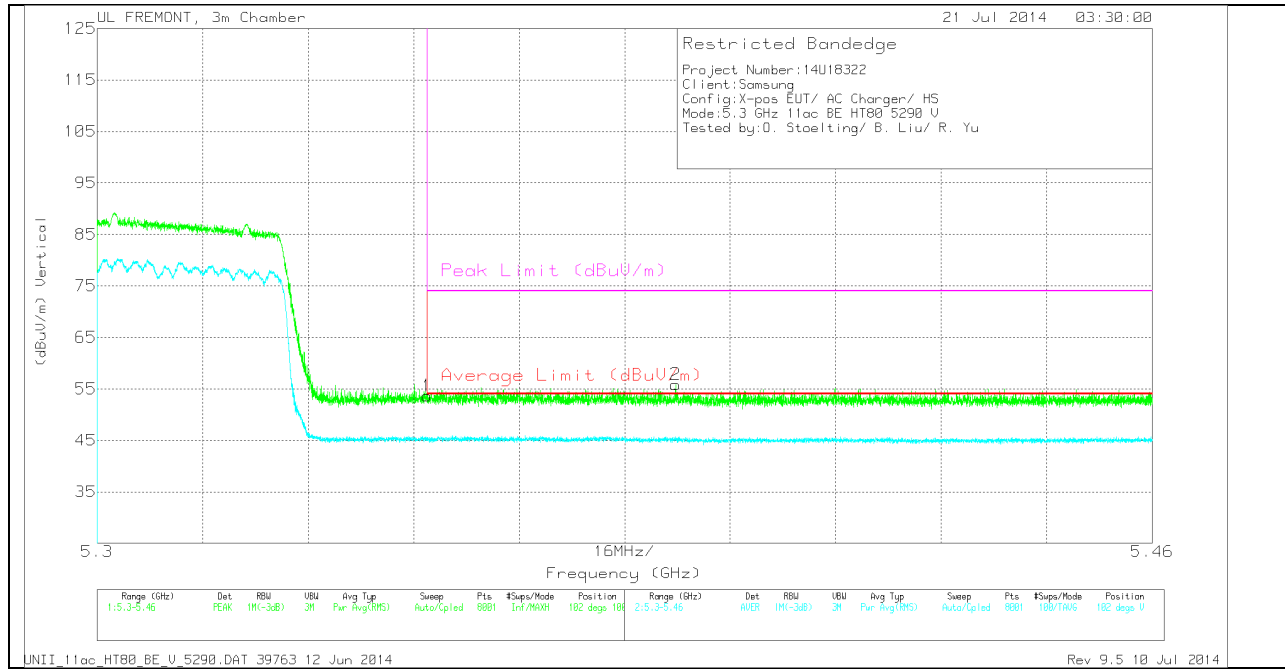
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	39.83	PK	34.5	-21.4	0	52.93	-	-	74	-21.07	104	100	H
3	5.35	30.65	RMS	34.5	-21.4	1.85	45.6	54	-8.4	-	-	104	100	H
4	5.377	30.82	RMS	34.6	-21.3	1.85	45.97	54	-8.03	-	-	104	100	H
2	5.39	42.41	PK	34.7	-21.4	0	55.71	-	-	74	-18.29	104	100	H

VERTICAL PEAK AND AVERAGE PLOT

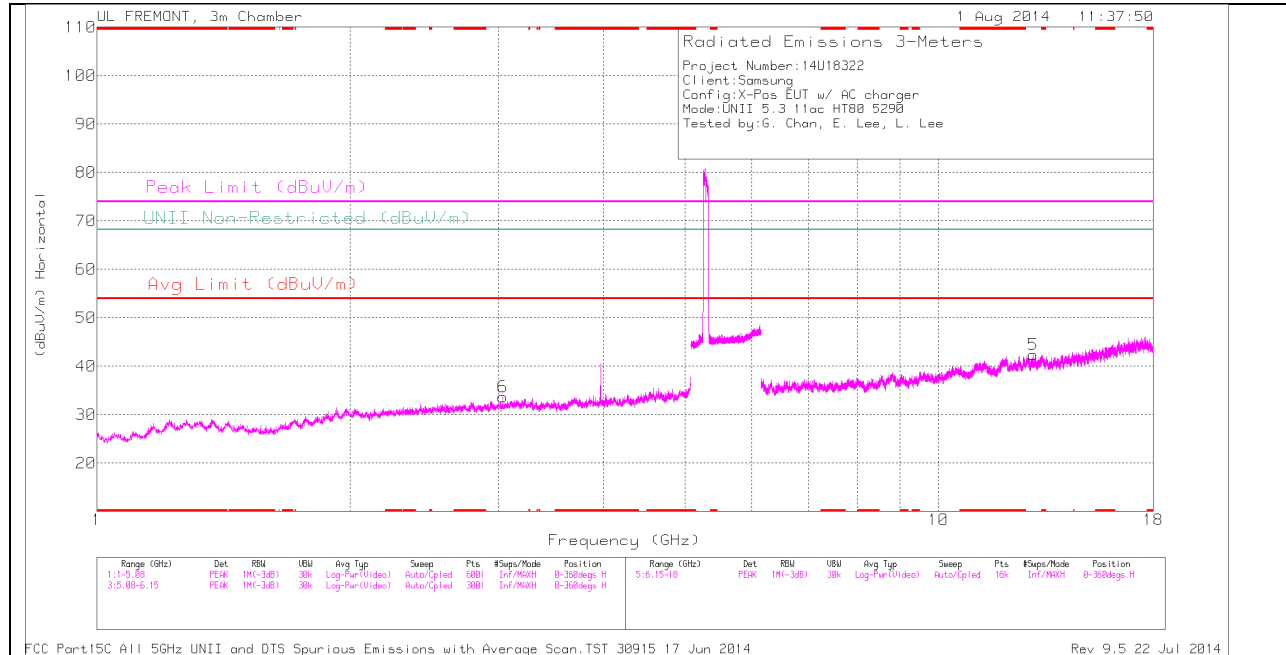


VERTICAL DATA

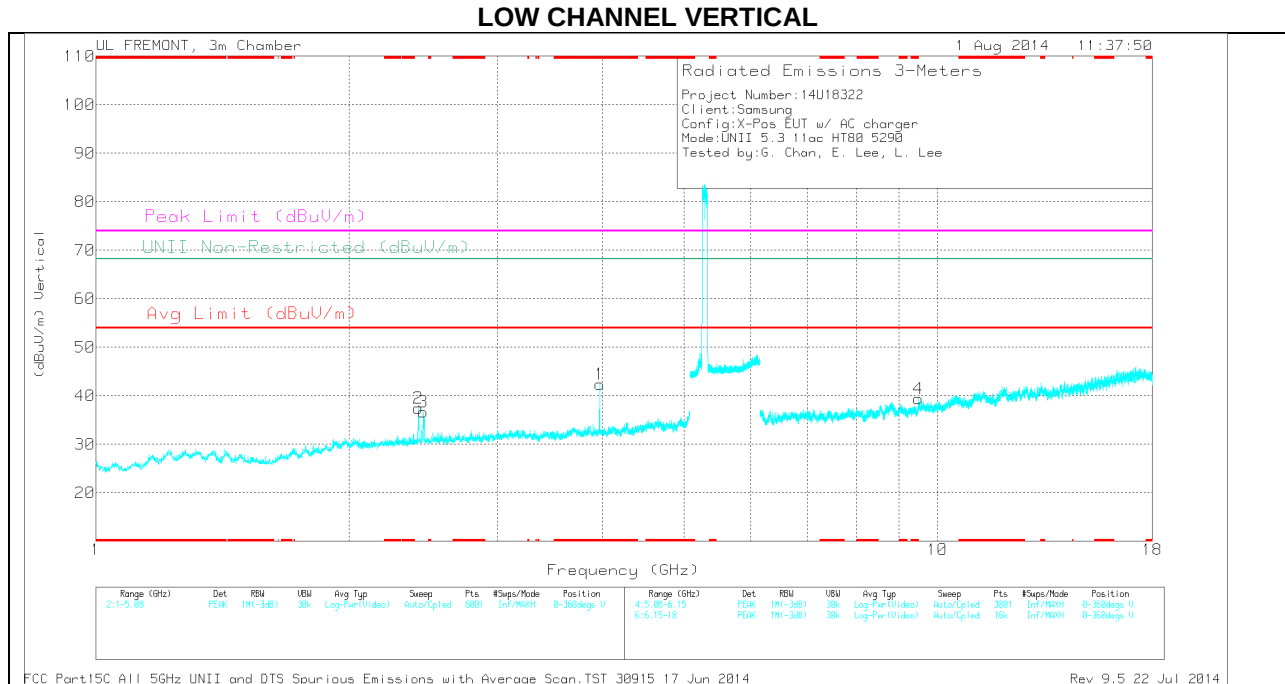
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.35	40.54	PK	34.5	-21.4	0	53.64	-	-	74	-20.36	102	100	V
3	5.35	29.99	RMS	34.5	-21.4	1.85	44.94	54	-9.06	-	-	102	100	V
4	5.354	30.96	RMS	34.5	-21.4	1.85	45.91	54	-8.09	-	-	102	100	V
2	5.388	42.65	PK	34.6	-21.4	0	55.85	-	-	74	-18.15	102	100	V

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.



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

Trace Markers

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	40.64	PK	33.3	-31.5	0	42.44	-	-	74	-31.56	-	-	0-360	100	V
4	* 9.499	28.56	PK	36.6	-25.8	0	39.36	-	-	74	-34.64	-	-	0-360	200	V
2	2.416	38.03	PK	32.1	-32.7	0	37.43	-	-	-	-	68.2	-30.77	0-360	100	V
3	2.45	37.01	PK	32.2	-32.5	0	36.71	-	-	-	-	68.2	-31.49	0-360	200	V
6	3.035	32.63	PK	33	-31.9	0	33.73	-	-	-	-	68.2	-34.47	0-360	200	H
5	12.951	30.35	PK	39.1	-27.1	0	42.35	-	-	-	-	68.2	-25.85	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 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	46.19	PK1	33.3	-31.5	0	47.99	-	-	74	-26.01	-	-	87	356	V
* 3.967	40.22	AD1	33.3	-31.5	1.82	43.84	54	-10.16	-	-	-	-	87	356	V
2.416	41.87	PK1	32.1	-32.7	0	41.27	-	-	-	-	68.2	-26.93	178	115	V
2.417	29.7	AD1	32.1	-32.7	1.82	30.92	-	-	-	-	-	-	178	115	V
2.449	45.24	PK1	32.2	-32.5	0	44.94	-	-	-	-	68.2	-23.26	178	200	V
2.452	29.69	AD1	32.2	-32.5	1.82	31.21	-	-	-	-	-	-	178	200	V

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

PK1 - KDB789033 Method: Peak

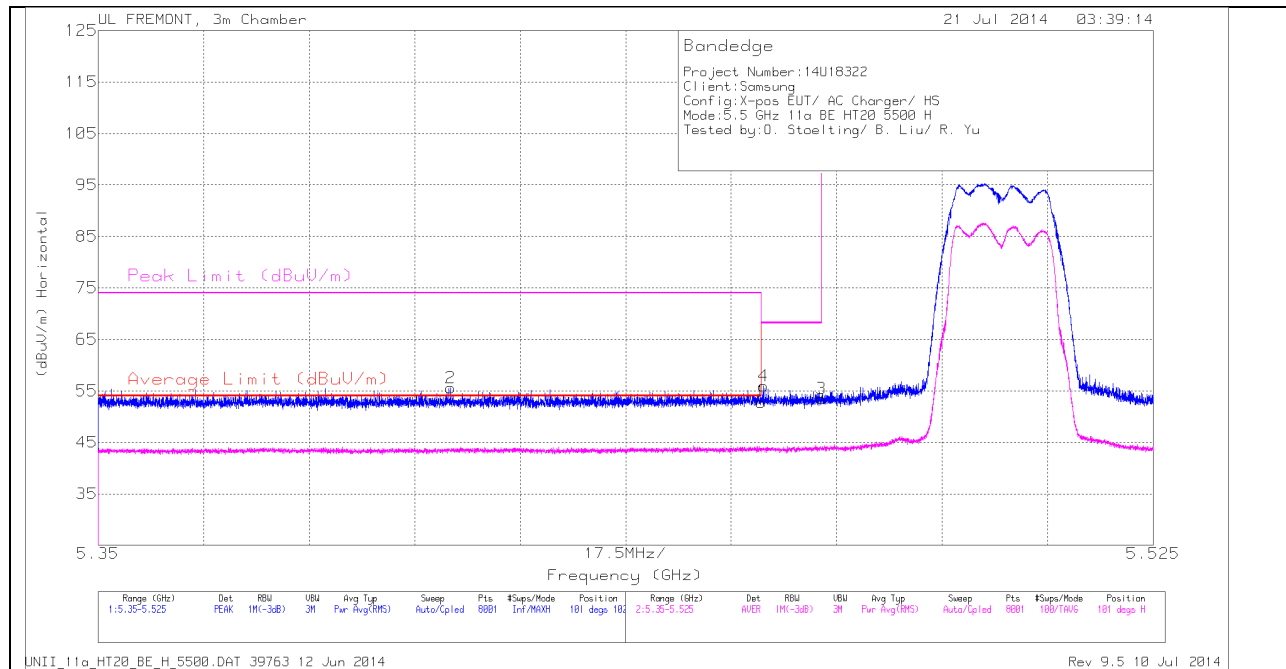
AD1 - KDB789033 Method: AD Primary Power Average

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)

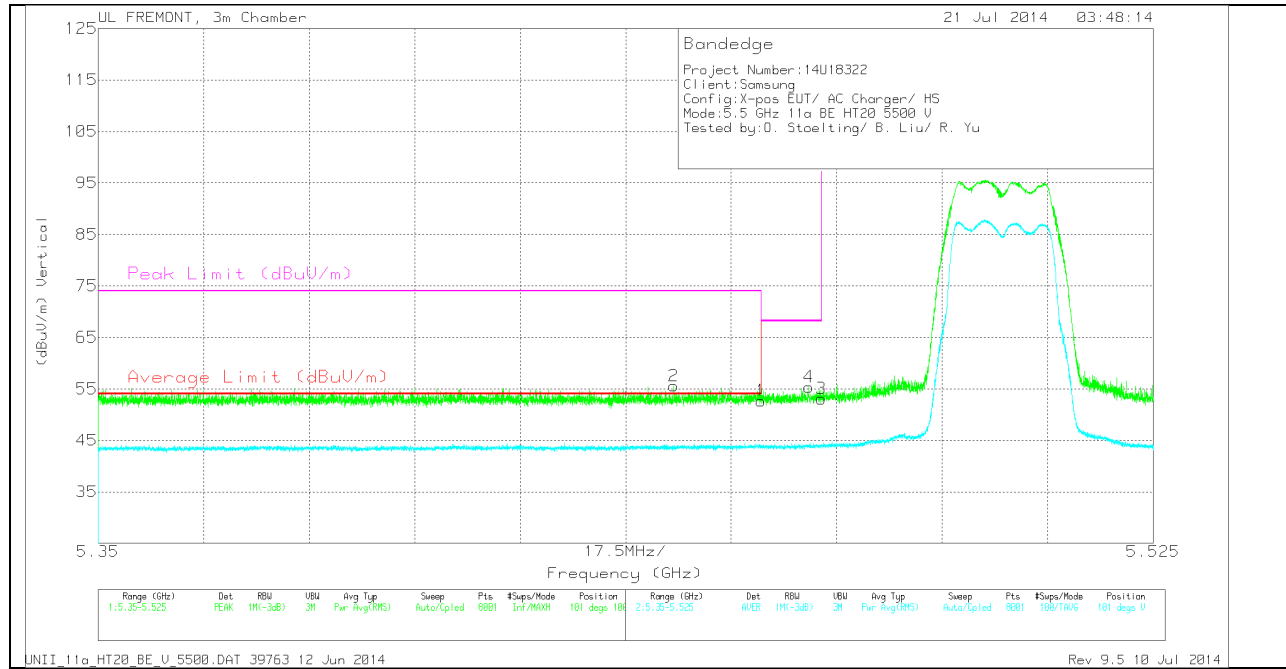
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filter (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	5.408	42.25	PK	34.7	-21.4	0	55.55	-	-	74	-18.45	101	102	H
6	5.449	30.68	RMS	34.8	-21.4	.29	44.37	54	-9.63	-	-	101	102	H
1	5.46	39.43	PK	34.8	-21.4	0	52.83	-	-	74	-21.17	101	102	H
4	5.46	42.53	PK	34.8	-21.4	0	55.93	-	-	68.2	-12.27	101	102	H
5	5.46	29.88	RMS	34.8	-21.4	.29	43.57	54	-10.43	-	-	101	102	H
8	5.469	30.65	RMS	34.8	-21.3	.29	44.44	-	-	-	-	101	102	H
3	5.47	39.98	PK	34.8	-21.3	0	53.48	-	-	68.2	-14.72	101	102	H
7	5.47	29.73	RMS	34.8	-21.3	.29	43.52	-	-	-	-	101	102	H

VERTICAL PEAK AND AVERAGE PLOT

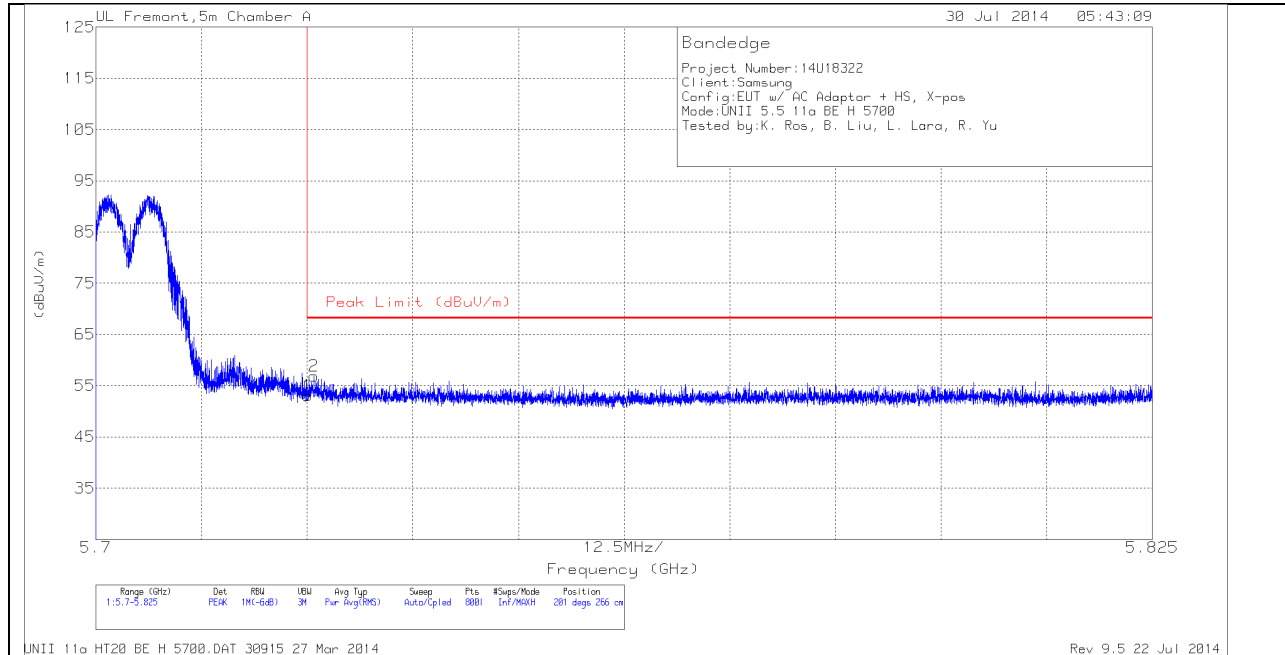


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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
6	5.427	30.8	RMS	34.7	-21.4	.29	44.39	54	-9.61	-	-	101	100	V
2	5.446	42.15	PK	34.8	-21.4	0	55.55	-	-	74	-18.45	101	100	V
1	5.46	39.31	PK	34.8	-21.4	0	52.71	-	-	74	-21.29	101	100	V
5	5.46	29.81	RMS	34.8	-21.4	.29	43.50	54	-10.50	-	-	101	100	V
4	5.468	41.86	PK	34.8	-21.3	0	55.36	-	-	68.2	-12.84	101	100	V
8	5.468	30.59	RMS	34.8	-21.3	.33	44.42	-	-	-	-	101	100	V
3	5.47	39.6	PK	34.8	-21.3	0	53.1	-	-	68.2	-15.1	101	100	V
7	5.47	30.28	RMS	34.8	-21.3	.29	44.07	-	-	-	-	101	100	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT

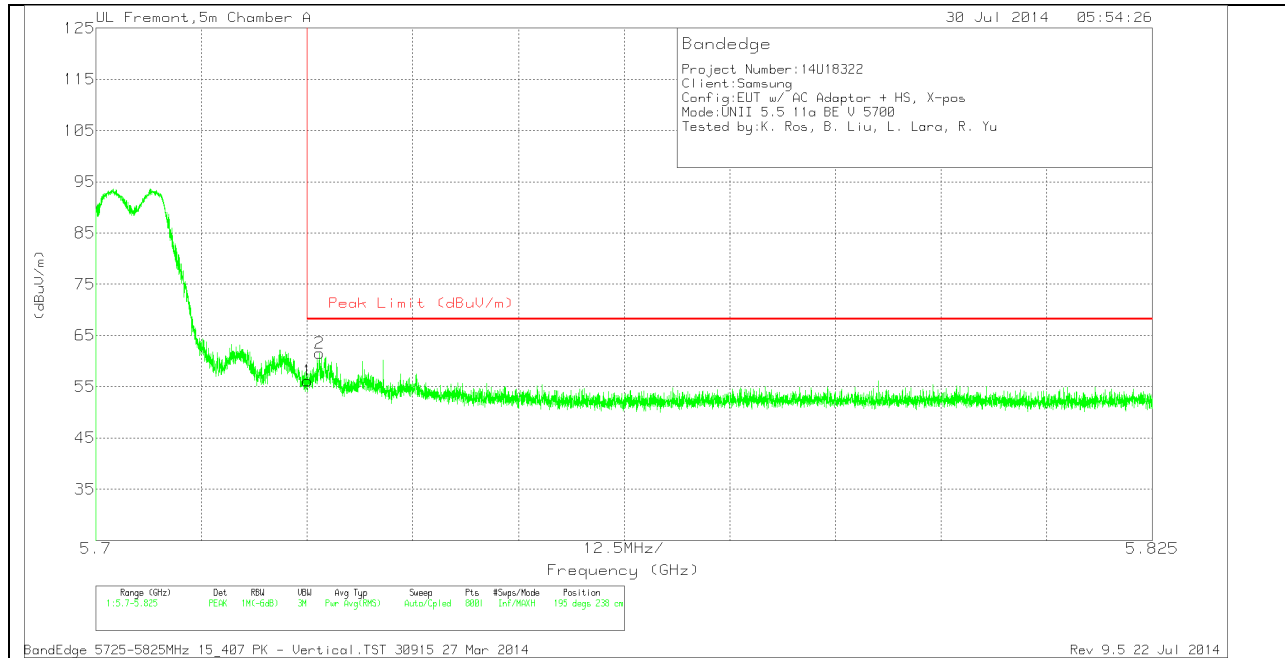


HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	38.04	PK	34.6	-19.6	0	53.04	68.2	-15.16	201	266	H
2	5.726	41.95	PK	34.6	-19.7	0	56.85	68.2	-11.35	201	266	H

PK - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



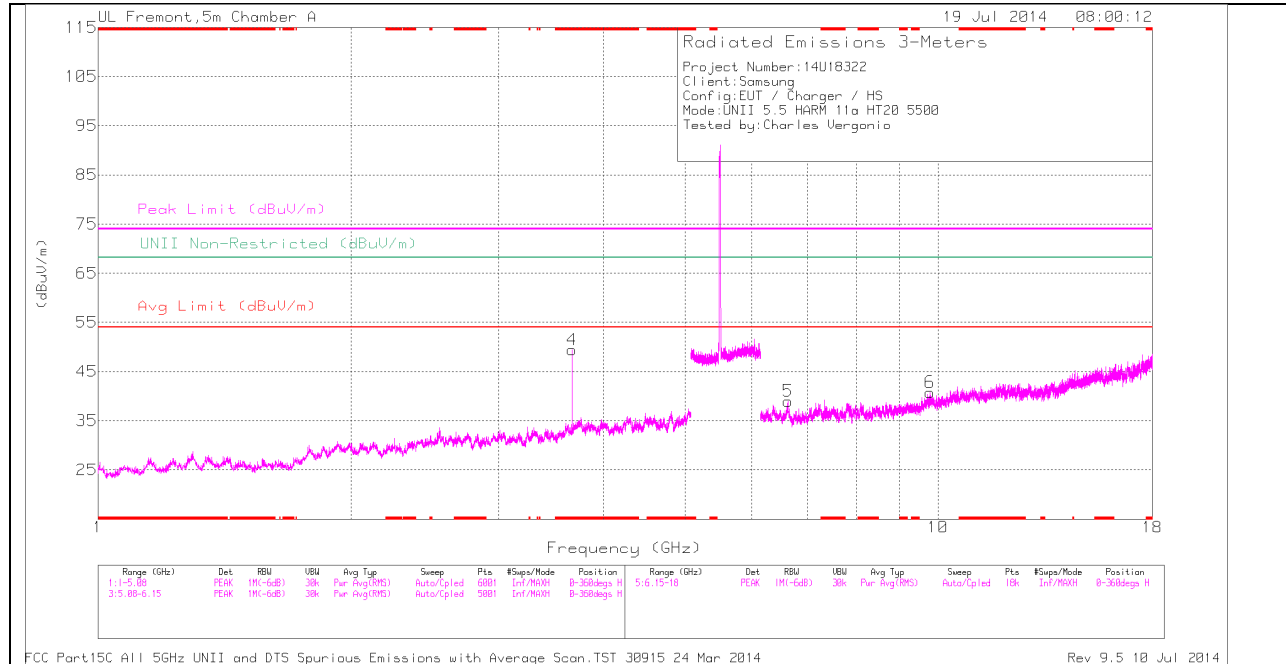
VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT136 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	41.1	PK	34.6	-19.6	56.1	68.2	-12.1	195	238	V
2	5.726	46.61	PK	34.6	-19.7	61.51	68.2	-6.69	195	238	V

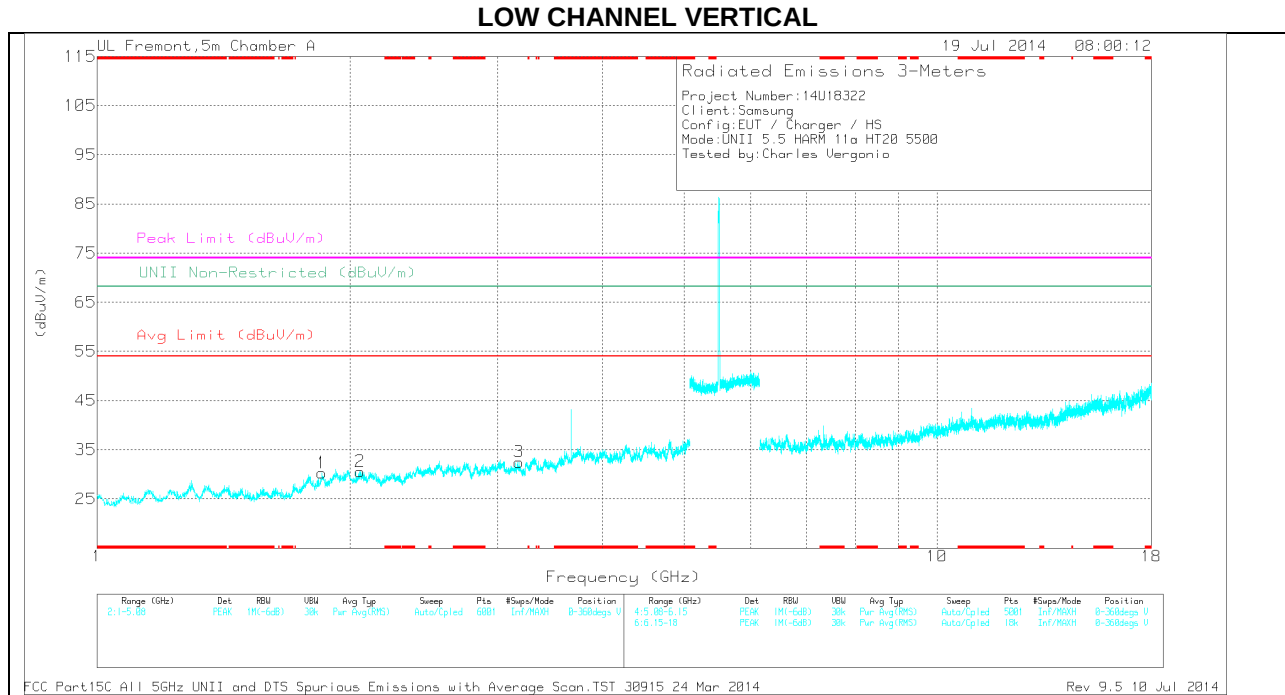
PK - Peak detector

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.



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

TRACE MARKERS

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
4	* 3.667	48.31	PK	33.3	-32.2	0	49.41	-	-	74	-24.59	-	-	0-360	100	H
1	1.852	33.89	PK	31.1	-34.7	0	30.29	-	-	-	-	68.2	-37.91	0-360	100	V
2	2.059	33.56	PK	31.9	-34.9	0	30.56	-	-	-	-	68.2	-37.64	0-360	201	V
3	3.179	32.6	PK	32.7	-32.8	0	32.5	-	-	-	-	68.2	-35.7	0-360	201	V
5	6.628	29.38	PK	35.4	-25.8	0	38.98	-	-	-	-	68.2	-29.22	0-360	100	H
6	9.785	26.87	PK	36.9	-23	0	40.77	-	-	-	-	68.2	-27.43	0-360	100	H

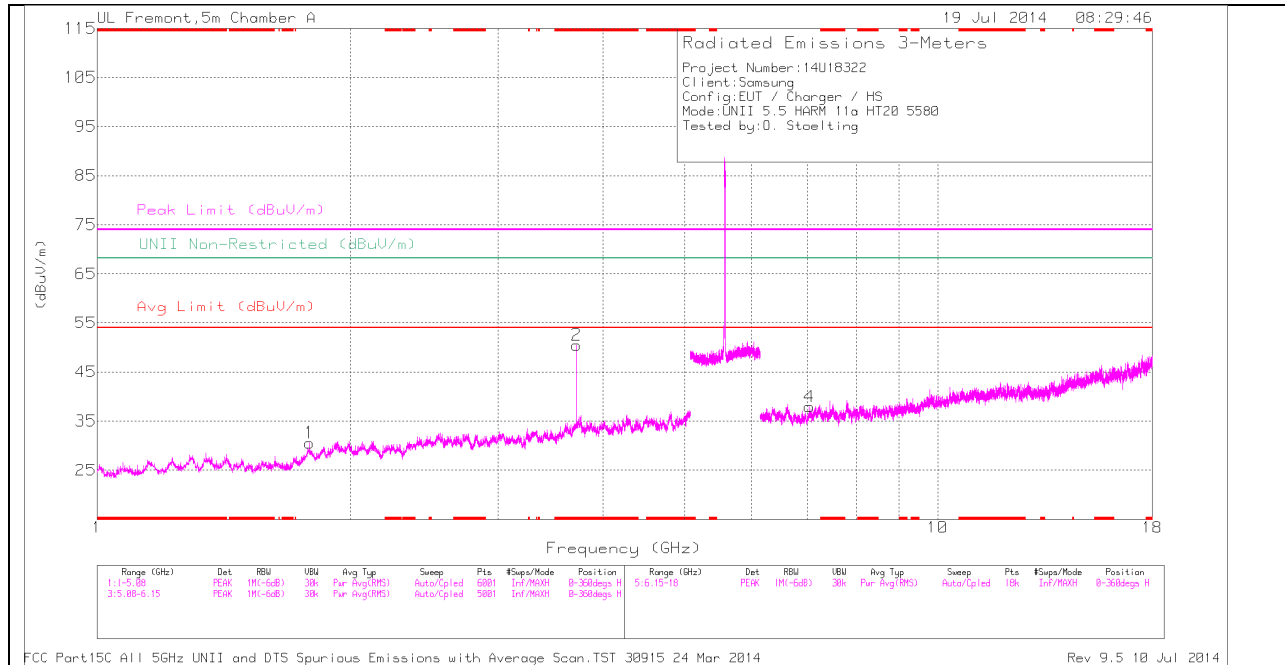
PK - Peak detector

RADIATED EMISSIONS

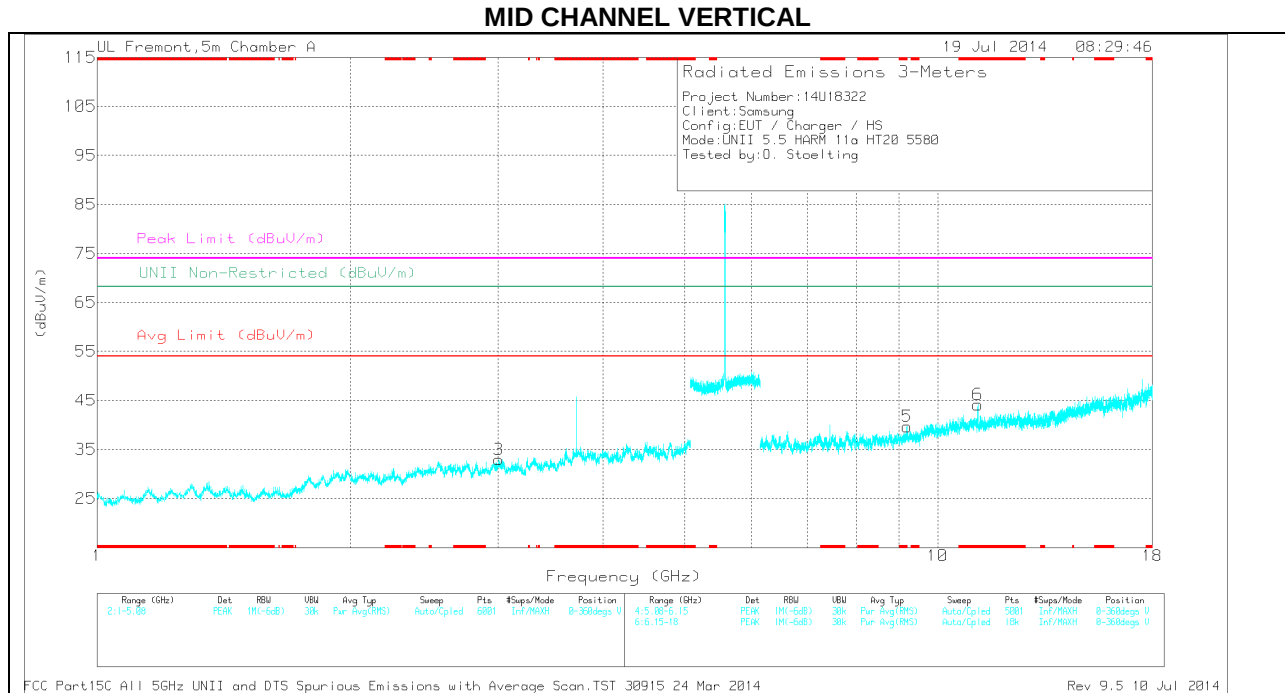
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.667	49.39	PK1	33.3	-32.2	0	50.49	-	-	74	-23.51	-	-	184	222	H
* 3.667	47.03	AD1	33.3	-32.2	.29	48.42	54	-5.58	-	-	-	-	184	222	H

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MID CHANNEL HORIZONTAL



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



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

TRACE MARKERS

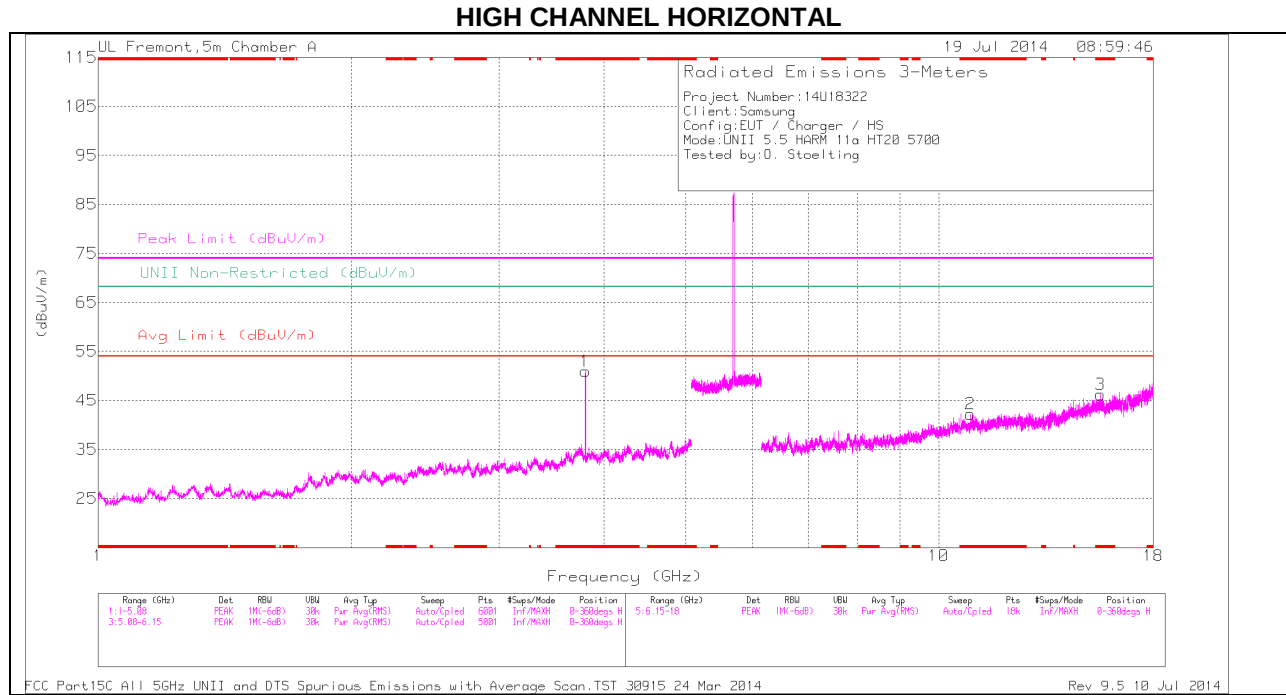
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.72	47.39	PK	33.4	-30.3	0	50.49	-	-	74	-23.51	-	-	0-360	100	H
5	* 9.191	27.68	PK	36.1	-24.1	0	39.68	-	-	74	-34.32	-	-	0-360	201	V
6	* 11.163	28.74	PK	37.8	-22.4	0	44.14	-	-	74	-29.86	-	-	0-360	100	V
1	1.789	34.45	PK	30.4	-34.3	0	30.55	-	-	-	-	68.2	-37.65	0-360	201	H
3	3.005	31.42	PK	32.8	-31.3	0	32.92	-	-	-	-	68.2	-35.28	0-360	201	V
4	7.037	29.3	PK	35.3	-26.7	0	37.9	-	-	-	-	68.2	-30.3	0-360	201	H

PK - Peak detector

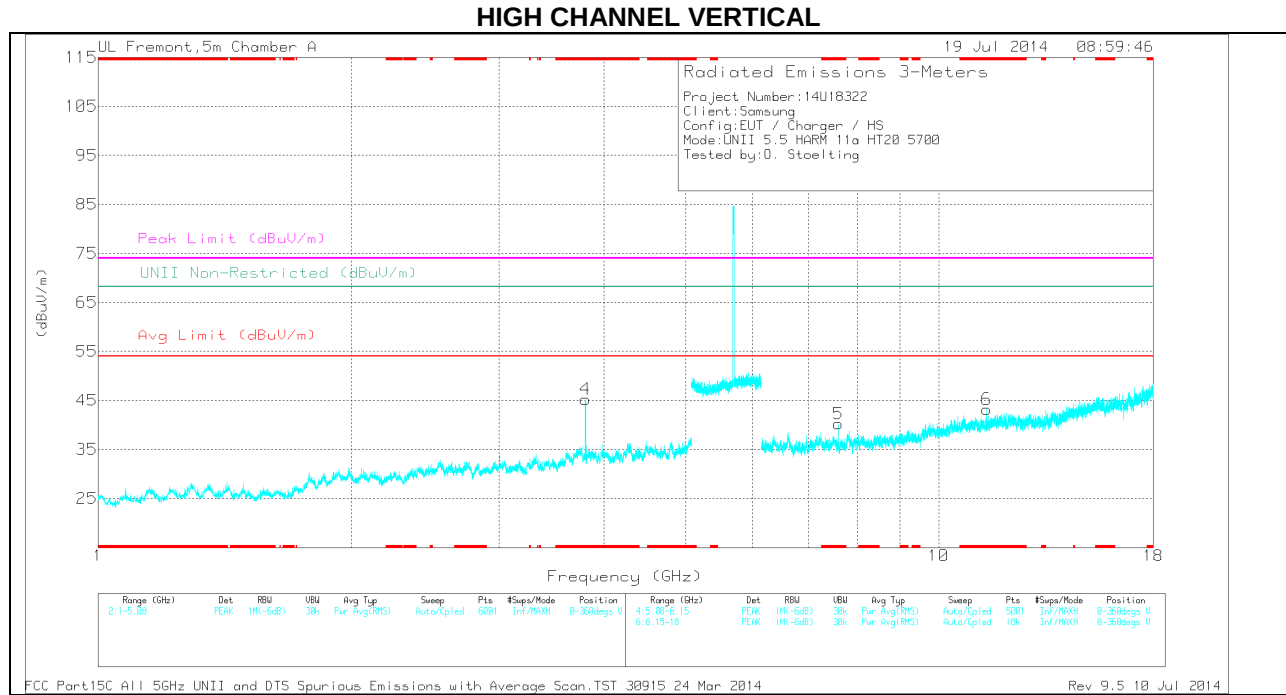
RADIATED EMISSIONS

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	49.92	PK1	33.4	-30.3	0	53.02	-	-	74	-20.98	-	-	181	128	H
* 3.72	46.7	AD1	33.4	-30.3	.29	50.09	54	-3.91	-	-	-	-	181	128	H

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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.

HIGH CHANNEL DATA

TRACE MARKERS

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	* 3.8	48.73	PK	33.6	-31.4	0	50.93	-	-	74	-23.07	-	-	0-360	100	H
4	* 3.8	43.07	PK	33.6	-31.4	0	45.27	-	-	74	-28.73	-	-	0-360	201	V
2	* 10.9	27.22	PK	37.8	-22.8	0	42.22	-	-	74	-31.78	-	-	0-360	100	H
3	* 15.583	27.3	PK	40.5	-21.6	0	46.2	-	-	74	-27.8	-	-	0-360	201	H
5	* 7.6	31.22	PK	35.4	-26.4	0	40.22	-	-	74	-33.78	-	-	0-360	100	V
6	* 11.403	28.39	PK	38.1	-23.3	0	43.19	-	-	74	-30.81	-	-	0-360	201	V

PK - Peak detector

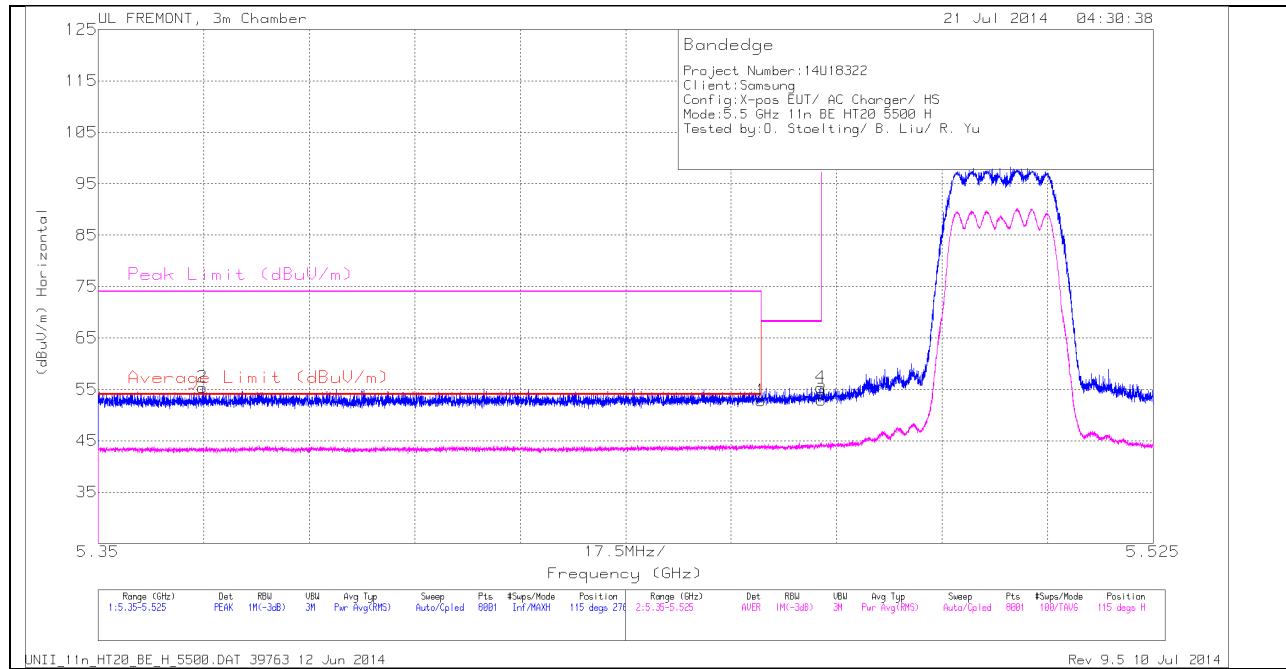
RADIATED EMISSIONS

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
* 3.8	49.22	PK1	33.6	-31.4	0	51.42	-	-	74	-22.58	-	-	181	154	H
* 3.8	46.99	AD1	33.6	-31.4	.29	49.48	54	-4.52	-	-	-	-	181	154	H
* 3.8	47.14	PK1	33.6	-31.4	0	49.34	-	-	74	-24.66	-	-	205	329	V
* 3.8	44.26	AD1	33.6	-31.4	.29	46.75	54	-7.25	-	-	-	-	205	329	V
* 7.6	37.96	PK1	35.4	-26.4	0	46.96	-	-	74	-27.04	-	-	147	153	V
* 7.6	29.81	AD1	35.4	-26.4	.29	39.1	54	-14.9	-	-	-	-	147	153	V
* 7.6	37.58	PK1	35.4	-26.4	0	46.58	-	-	74	-27.42	-	-	147	153	V
* 7.6	29.89	AD1	35.4	-26.4	.29	39.18	54	-14.82	-	-	-	-	147	153	V

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

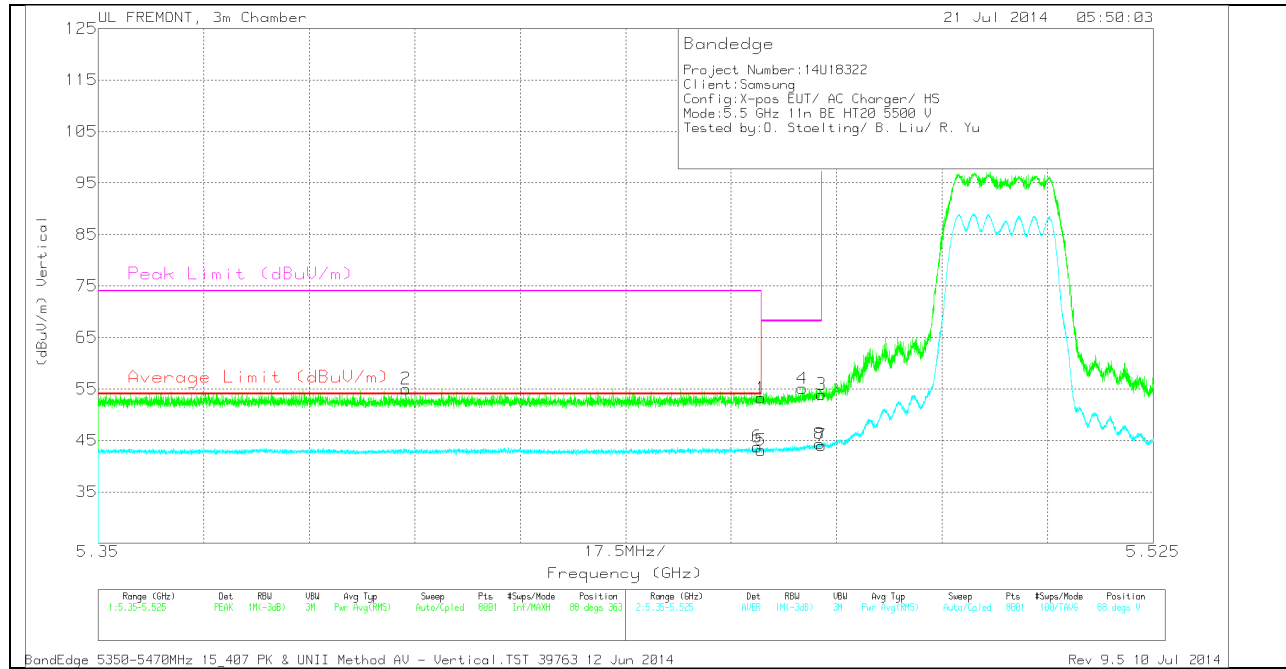
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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
2	5.367	42.3	PK	34.6	-21.5	0	55.4	-	-	74	-18.6	115	276	H
6	5.458	30.55	RMS	34.8	-21.4	.33	44.28	54	-9.72	-	-	115	276	H
1	5.46	39.4	PK	34.8	-21.4	0	52.8	-	-	74	-21.2	115	276	H
5	5.46	30.13	RMS	34.8	-21.4	.33	43.86	54	-10.14	-	-	115	276	H
3	5.47	39.44	PK	34.8	-21.3	0	52.94	-	-	68.2	-15.26	115	276	H
4	5.47	41.88	PK	34.8	-21.3	0	55.38	-	-	68.2	-12.82	115	276	H
7	5.47	30.23	RMS	34.8	-21.3	.33	44.06	-	-	-	-	115	276	H
8	5.47	30.77	RMS	34.8	-21.3	.33	44.6	-	-	-	-	115	276	H

VERTICAL PEAK AND AVERAGE PLOT

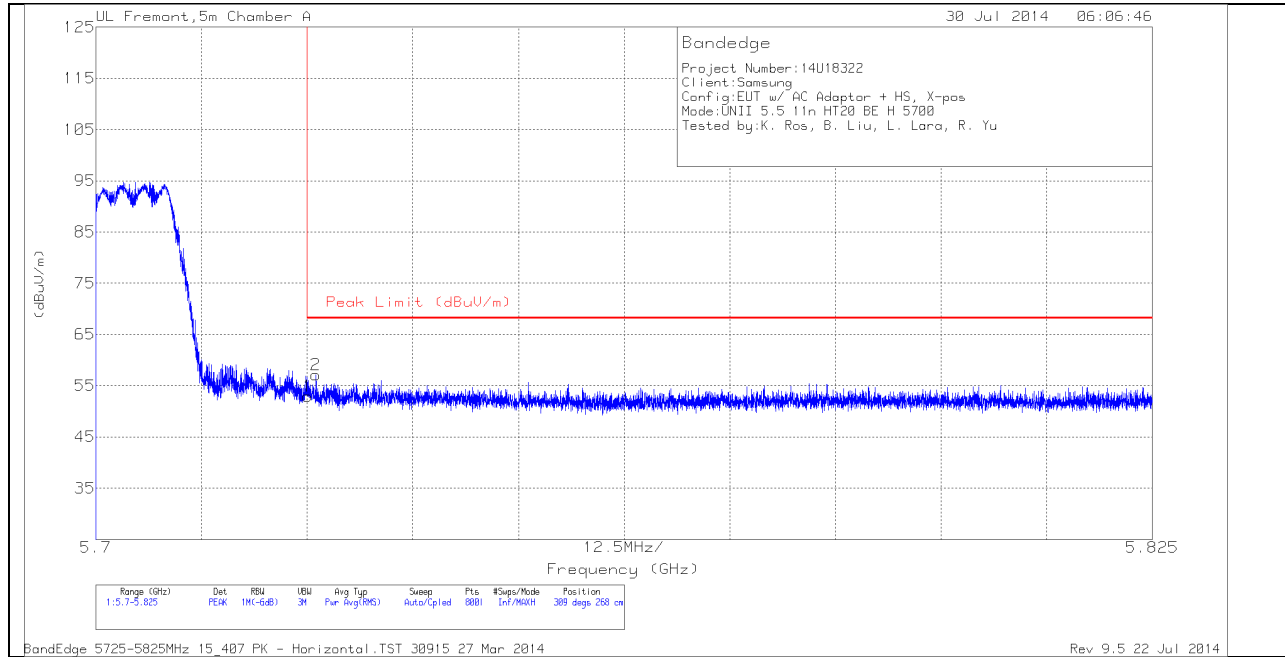


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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
2	5.401	41.81	PK	34.7	-21.5	0	55.01	-	-	74	-18.99	88	363	V
6	5.459	30.04	RMS	34.8	-21.4	.33	43.77	54	-10.23	-	-	88	363	V
1	5.46	39.83	PK	34.8	-21.4	0	53.23	-	-	74	-20.77	88	363	V
5	5.46	29.34	RMS	34.8	-21.4	.33	43.07	54	-10.93	-	-	88	363	V
4	5.467	41.58	PK	34.8	-21.3	0	55.08	-	-	68.2	-13.12	88	363	V
3	5.47	40.4	PK	34.8	-21.3	0	53.9	-	-	68.2	-14.3	88	363	V
7	5.47	30.19	RMS	34.8	-21.3	.33	44.02	-	-	-	-	88	363	V
8	5.47	30.5	RMS	34.8	-21.3	.33	44.33	-	-	-	-	88	363	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT

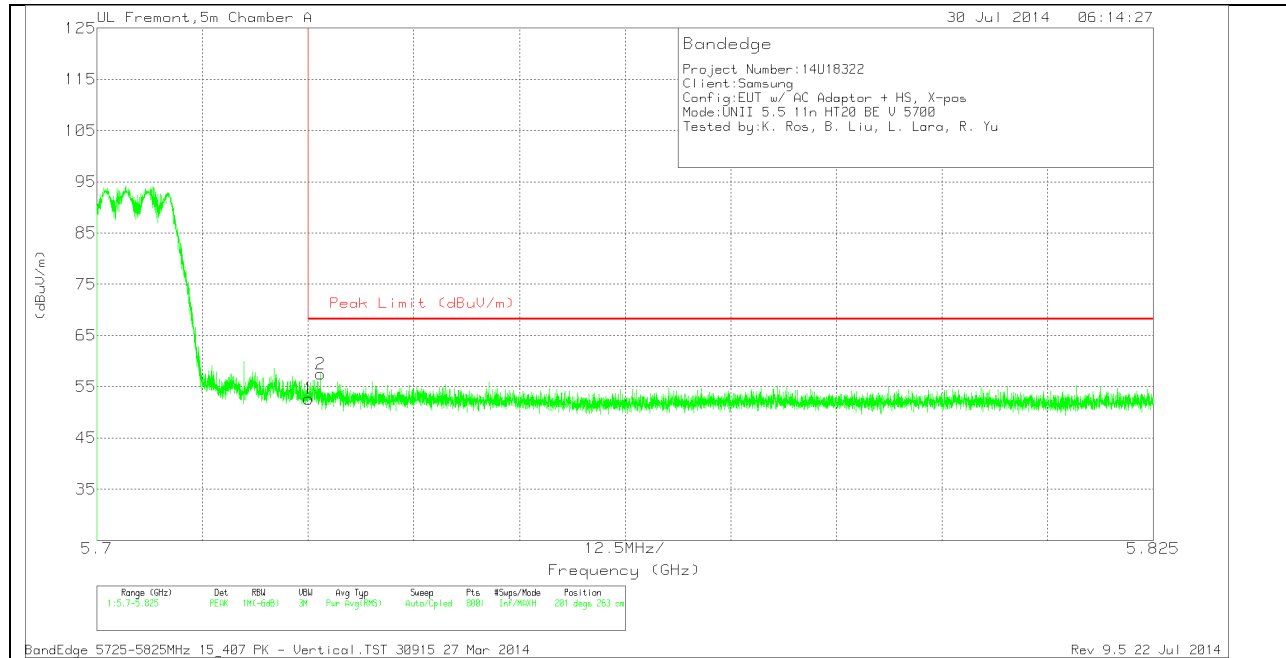


HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	37.9	PK	34.6	-19.6	0	52.9	68.2	-15.3	309	268	H
2	5.726	42.26	PK	34.6	-19.7	0	57.16	68.2	-11.04	309	268	H

PK - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



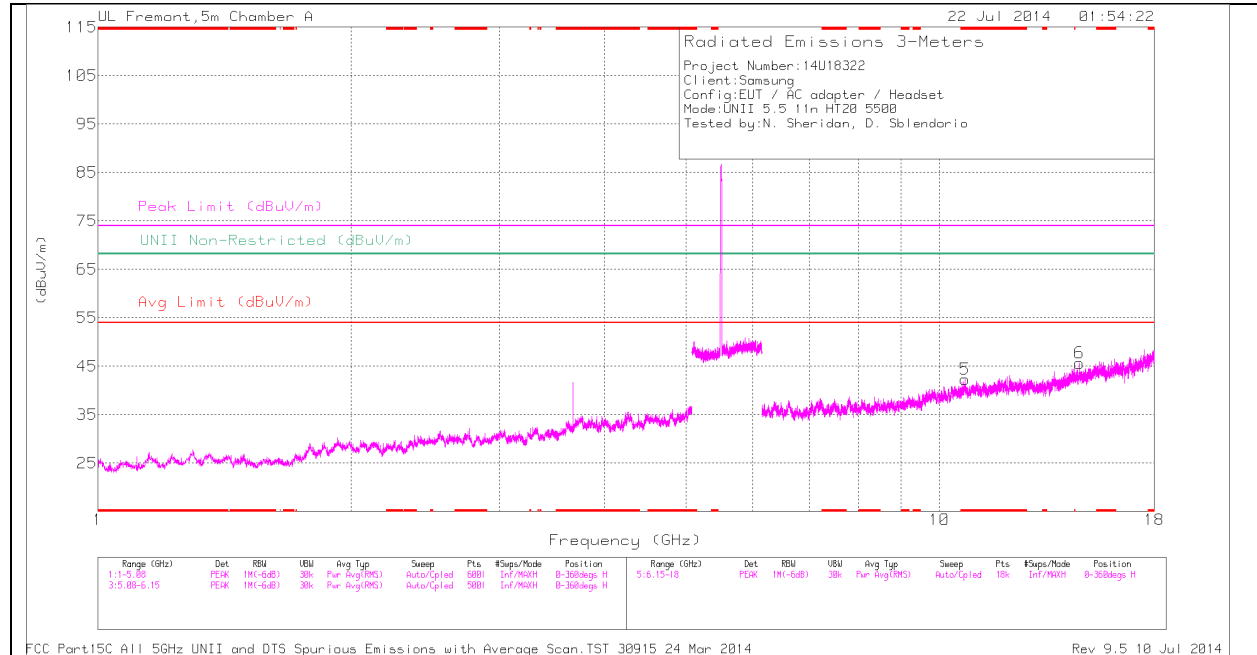
VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	37.64	PK	34.6	-19.6	0	52.64	68.2	-15.56	201	263	V
2	5.726	42.63	PK	34.6	-19.7	0	57.53	68.2	-10.67	201	263	V

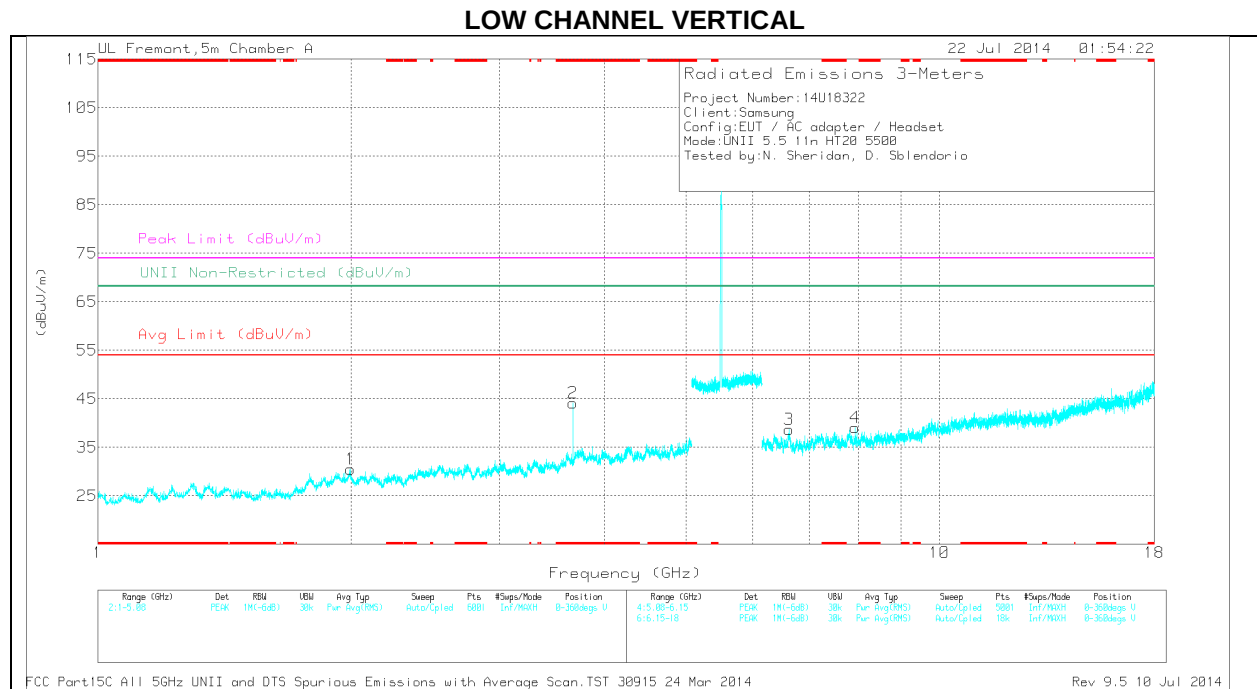
PK - Peak detector

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.



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LOW CHANNEL DATA

TRACE MARKERS

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
2	* 3.667	43.02	PK	33.3	-32.2	0	44.12	-	-	74	-29.88	-	-	0-360	201	V
5	* 10.727	26.93	PK	37.9	-22.5	0	42.33	-	-	74	-31.67	-	-	0-360	100	H
1	1.996	33.48	PK	32.1	-35.1	0	30.48	-	-	-	-	68.2	-37.72	0-360	100	V
3	6.632	29.04	PK	35.4	-25.8	0	38.64	-	-	-	-	68.2	-29.56	0-360	100	V
4	7.943	30.05	PK	35.5	-26.5	0	39.05	-	-	-	-	68.2	-29.15	0-360	201	V
6	14.659	27.84	PK	40	-22.2	0	45.64	-	-	-	-	68.2	-22.56	0-360	201	H

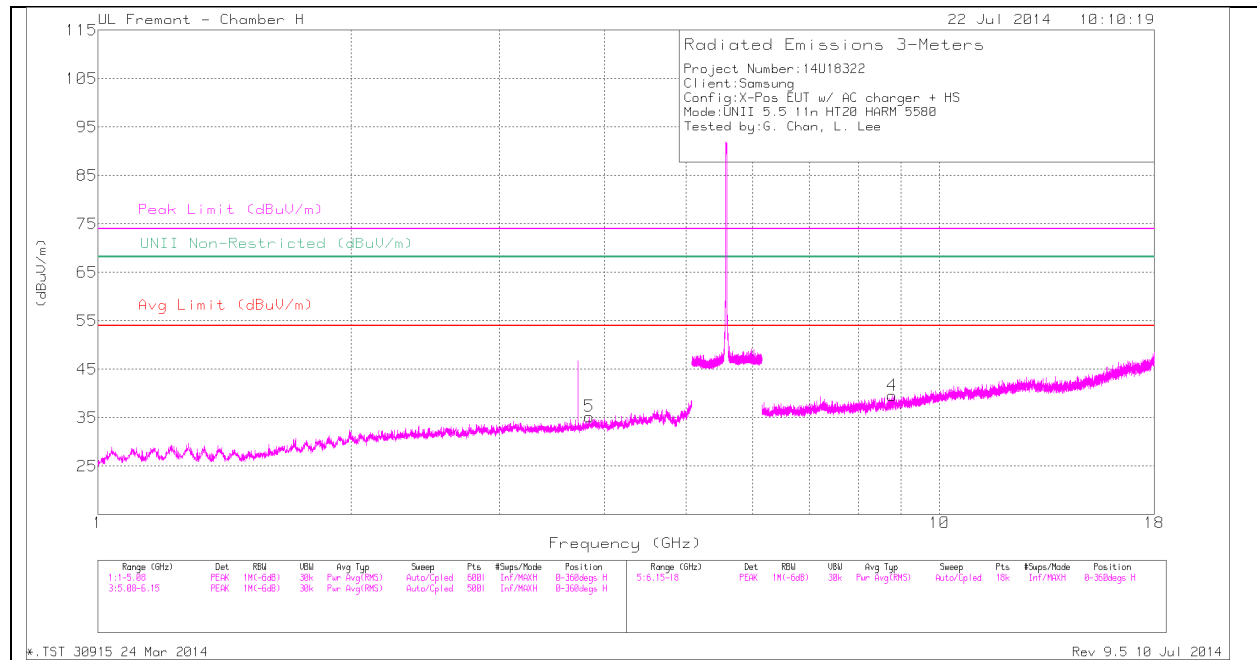
PK - Peak detector

RADIATED EMISSIONS

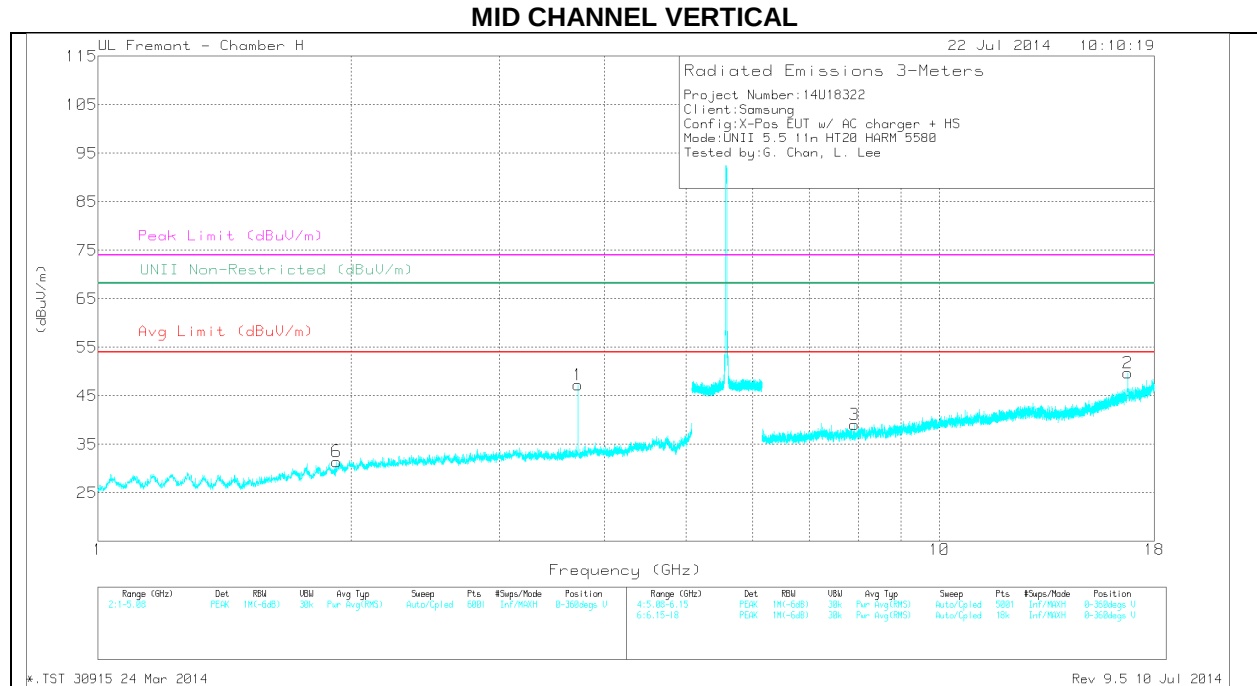
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.667	47.53	PK1	33.3	-32.2	0	48.63	-	-	74	-25.37	-	-	73	298	V
* 3.667	43.89	AD1	33.3	-32.2	.33	45.32	54	-8.68	-	-	-	-	73	298	V

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MID CHANNEL HORIZONTAL



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



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MID CHANNEL DATA

TRACE MARKERS

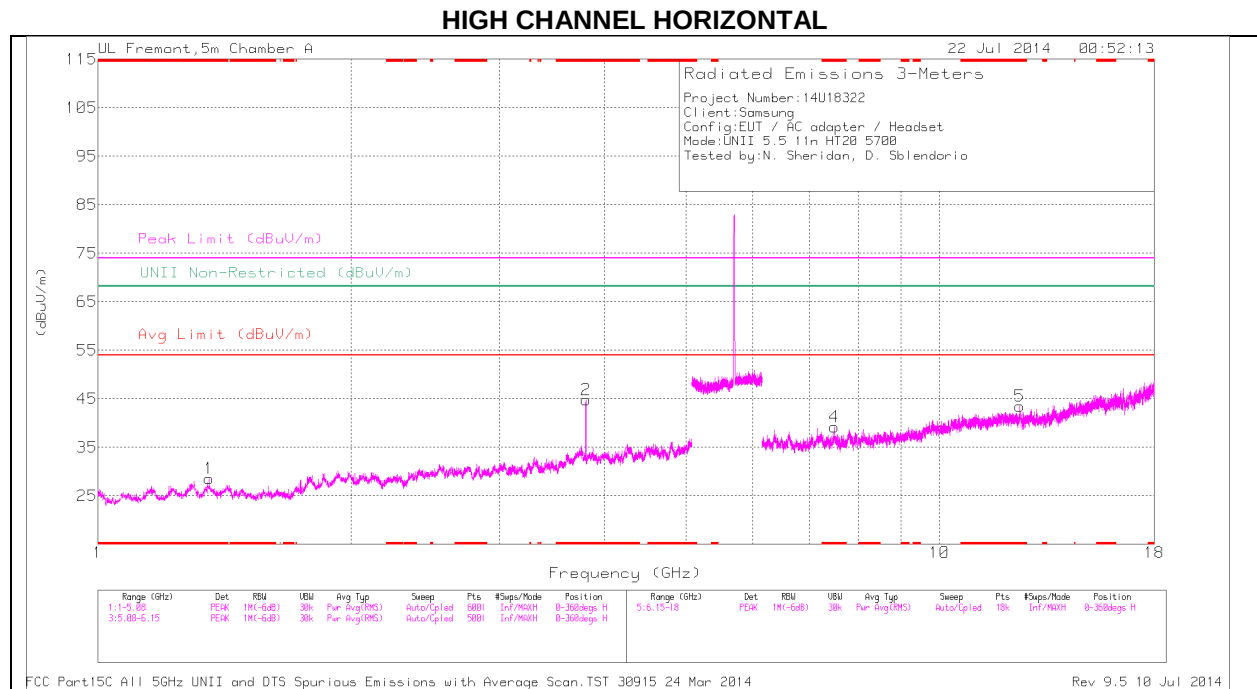
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 3.838	34.85	PK	33.3	-32.9	0	35.25	-	-	74	-38.75	-	-	0-360	100	H
1	* 3.72	46.79	PK	33.2	-32.7	0	47.29	-	-	74	-26.71	-	-	0-360	100	V
6	1.921	35.38	PK	30.8	-34.7	0	31.48	-	-	-	-	68.2	-36.72	0-360	201	V
3	7.919	32.64	PK	36	-29.6	0	39.04	-	-	-	-	68.2	-29.16	0-360	100	V
4	8.779	30.7	PK	36.2	-27.3	0	39.6	-	-	-	-	68.2	-28.6	0-360	201	H
2	16.737	31.51	PK	42.3	-24.1	0	49.71	-	-	-	-	68.2	-18.49	0-360	201	V

PK - Peak detector

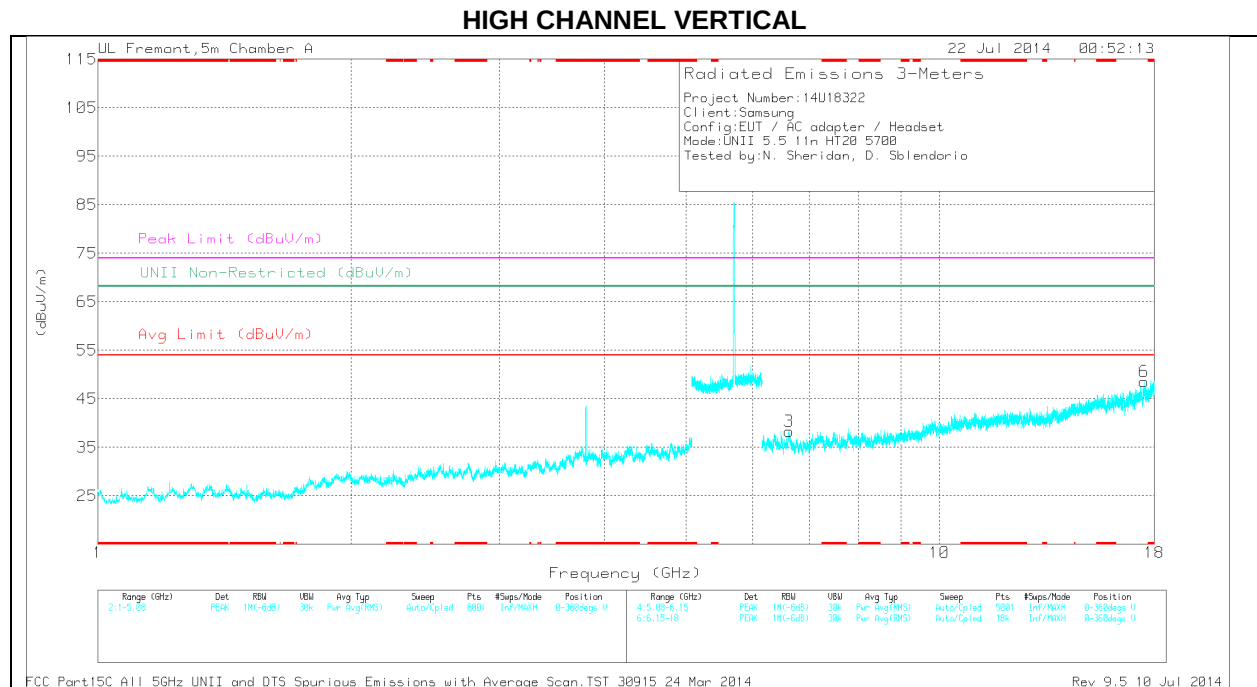
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.72	48.39	PK1	33.2	-32.7	0	48.89	-	-	74	-25.11	-	-	81	356	V
* 3.72	46.83	AD1	33.2	-32.7	.33	47.66	54	-6.34	-	-	-	-	81	356	V
16.737	40.25	PK1	42.3	-24.1	0	58.45	-	-	-	-	68.2	-9.75	4	233	V
16.739	27.69	AD1	42.3	-24.1	.33	46.22	-	-	-	-	-	-	4	233	V

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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.

HIGH CHANNEL DATA

TRACE MARKERS

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	* 1.355	35.32	PK	30	-36.8	0	28.52	-	-	74	-45.48	-	-	0-360	100	H
2	* 3.8	42.65	PK	33.6	-31.4	0	44.85	-	-	74	-29.15	-	-	0-360	201	H
4	* 7.503	28.65	PK	35.3	-24.7	0	39.25	-	-	74	-34.75	-	-	0-360	201	H
5	* 12.465	26.42	PK	38.8	-21.7	0	43.52	-	-	74	-30.48	-	-	0-360	100	H
3	6.63	28.65	PK	35.4	-25.8	0	38.25	-	-	-	-	68.2	-29.95	0-360	100	V
6	17.498	25.72	PK	40.9	-18.1	0	48.52	-	-	-	-	68.2	-19.68	0-360	201	V

PK - Peak detector

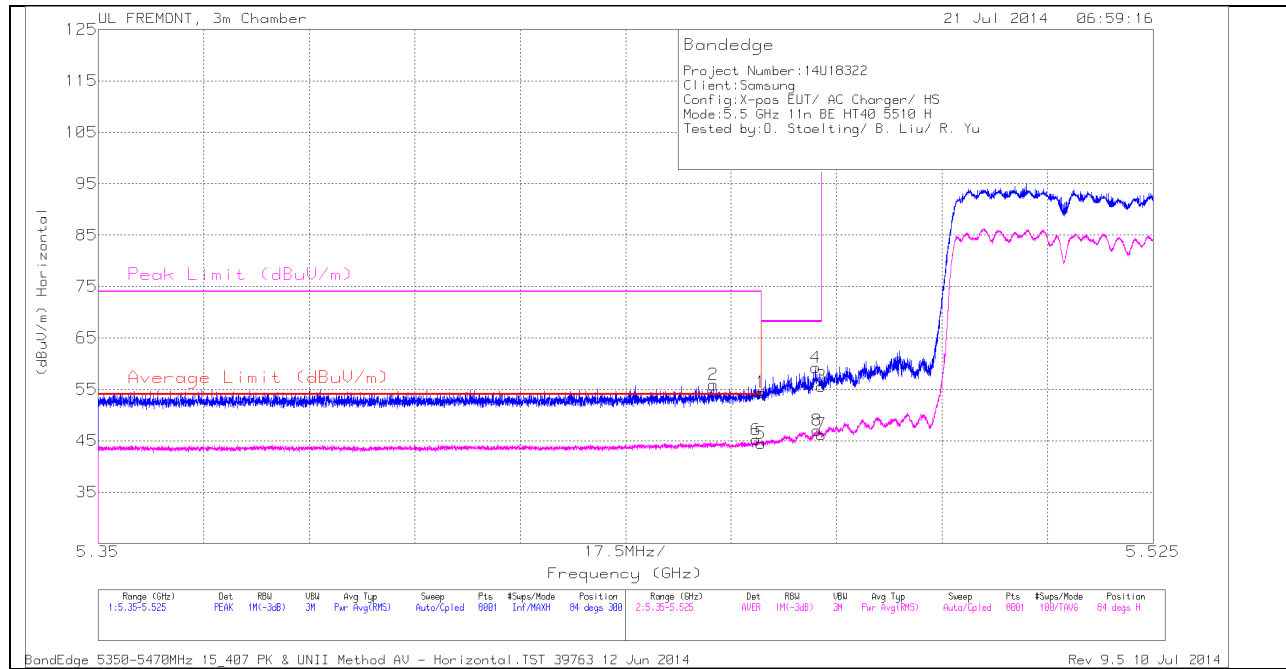
RADIATED EMISSIONS

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
* 3.8	46.71	PK1	33.6	-31.4	0	48.91	-	-	74	-25.09	-	-	130	307	H
* 3.8	43.49	AD1	33.6	-31.4	.33	46.02	54	-7.98	-	-	-	-	130	307	H
* 12.465	33.29	PK1	38.8	-21.7	0	50.39	-	-	74	-23.61	-	-	16	217	H
* 12.464	21.84	AD1	38.8	-21.7	.33	39.27	54	-14.73	-	-	-	-	16	217	H

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

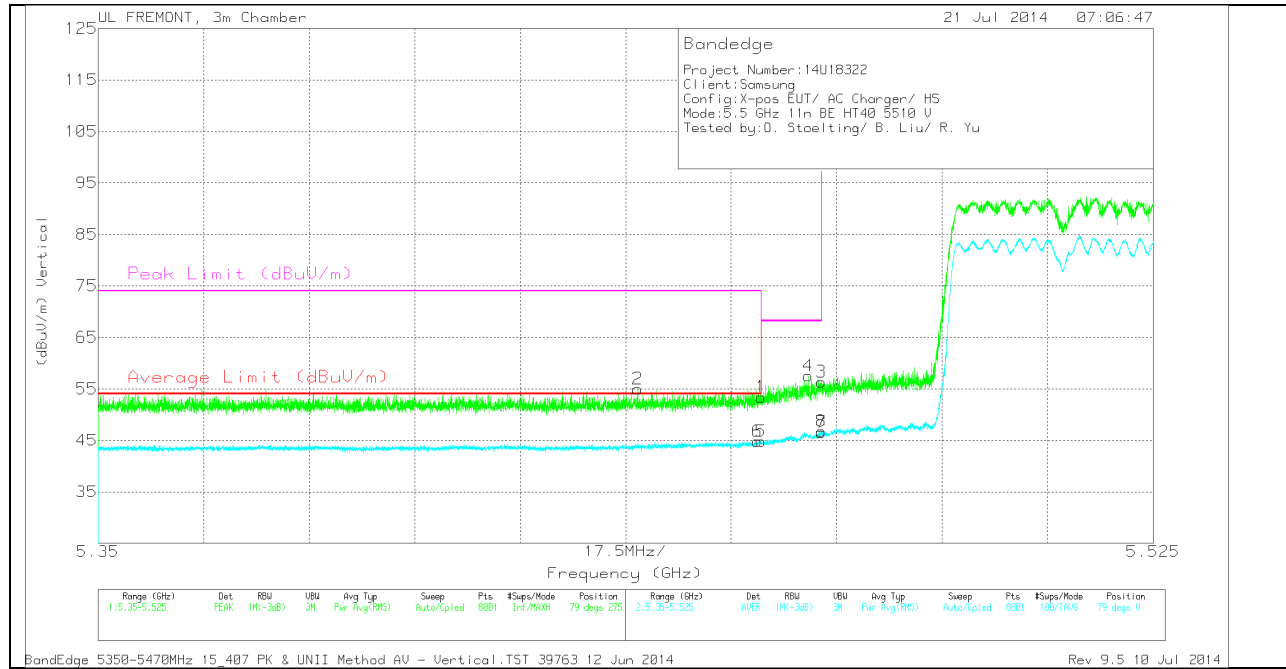
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	5.452	42.5	PK	34.8	-21.4	0	55.9	-	-	74	-18.1	84	300	H
6	5.459	31.16	RMS	34.8	-21.4	.61	45.17	54	-8.83	-	-	84	300	H
1	5.46	40.99	PK	34.8	-21.4	0	54.39	-	-	74	-19.61	84	300	H
5	5.46	30.47	RMS	34.8	-21.4	.61	44.48	54	-9.52	-	-	84	300	H
4	5.469	45.72	PK	34.8	-21.3	0	59.22	-	-	68.2	-8.98	84	300	H
8	5.469	32.89	RMS	34.8	-21.3	.61	47	-	-	-	-	84	300	H
3	5.47	42.11	PK	34.8	-21.3	0	55.61	-	-	68.2	-12.59	84	300	H
7	5.47	32.08	RMS	34.8	-21.3	.61	46.19	-	-	-	-	84	300	H

VERTICAL PEAK AND AVERAGE PLOT

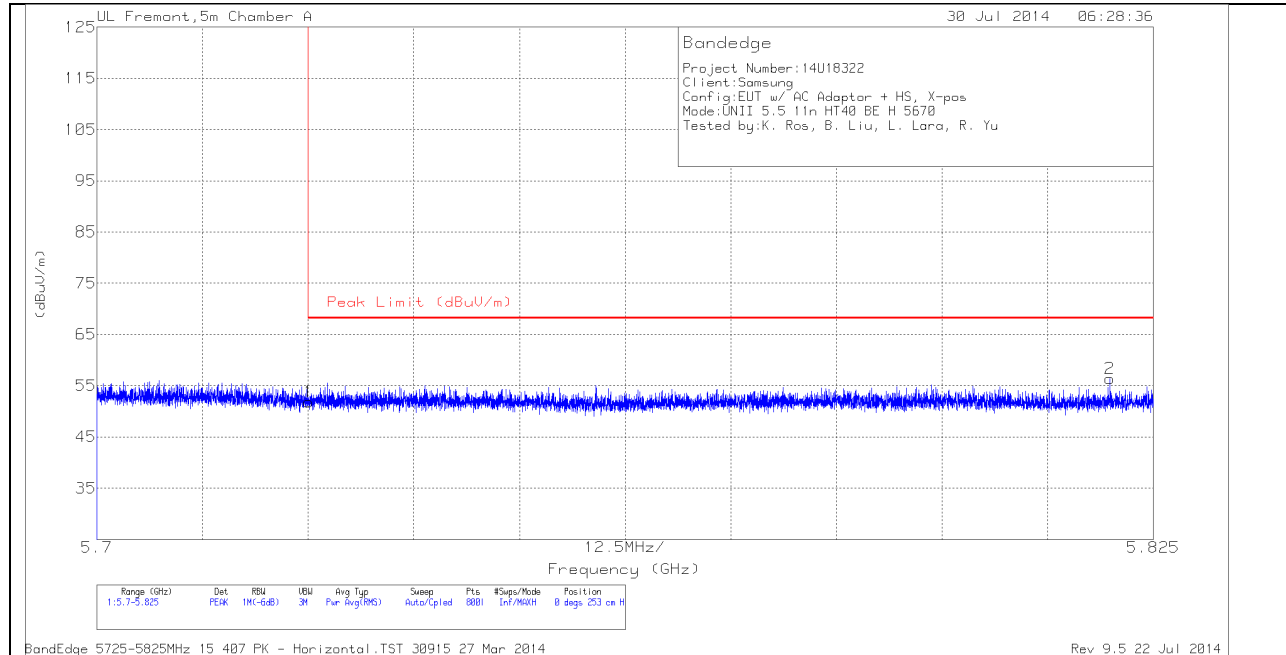


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	5.439	41.69	PK	34.7	-21.4	0	54.99	-	-	74	-19.01	79	275	V
6	5.459	30.81	RMS	34.8	-21.4	.61	44.82	54	-9.18	-	-	79	275	V
1	5.46	40.04	PK	34.8	-21.4	0	53.44	-	-	74	-20.56	79	275	V
5	5.46	30.82	RMS	34.8	-21.4	.61	44.83	54	-9.17	-	-	79	275	V
4	5.468	44	PK	34.8	-21.3	0	57.5	-	-	68.2	-10.7	79	275	V
3	5.47	42.86	PK	34.8	-21.3	0	56.36	-	-	68.2	-11.84	79	275	V
7	5.47	32.45	RMS	34.8	-21.3	.61	46.56	-	-	-	-	79	275	V
8	5.47	32.66	RMS	34.8	-21.3	.61	46.77	-	-	-	-	79	275	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT

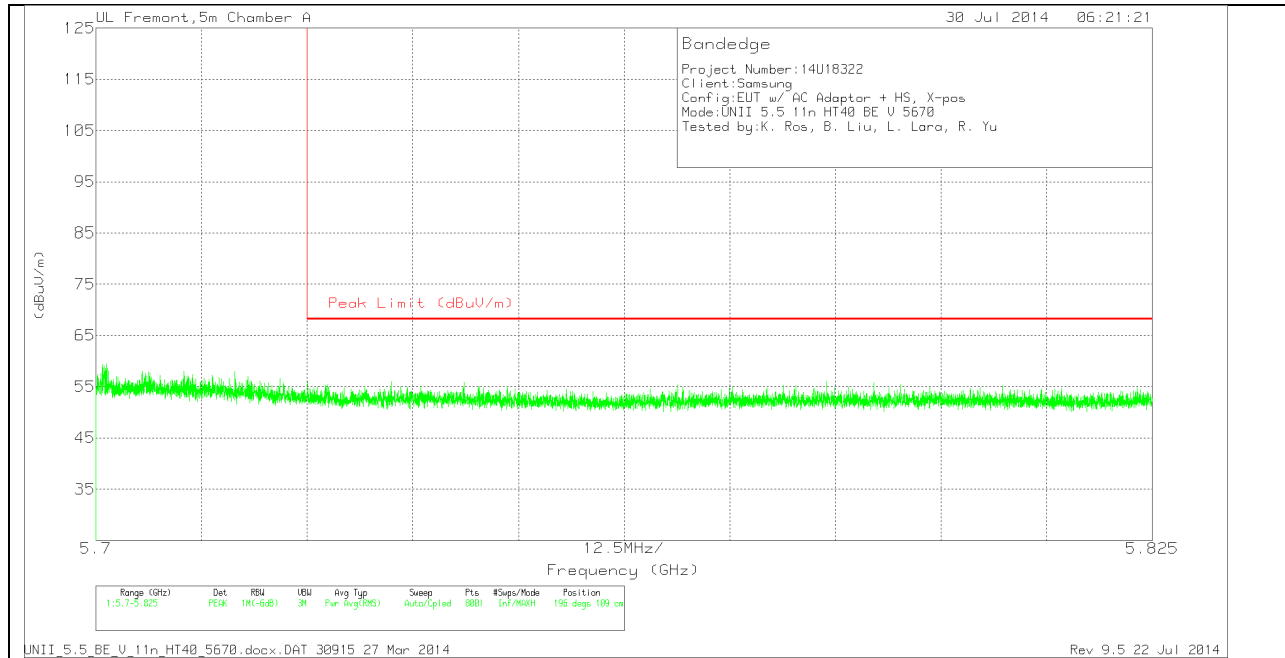


HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	36.89	PK	34.6	-19.6	51.89	68.2	-16.31	0	253	H
2	5.82	41.12	PK	34.8	-19.5	56.42	68.2	-11.78	0	253	H

PK - Peak detector

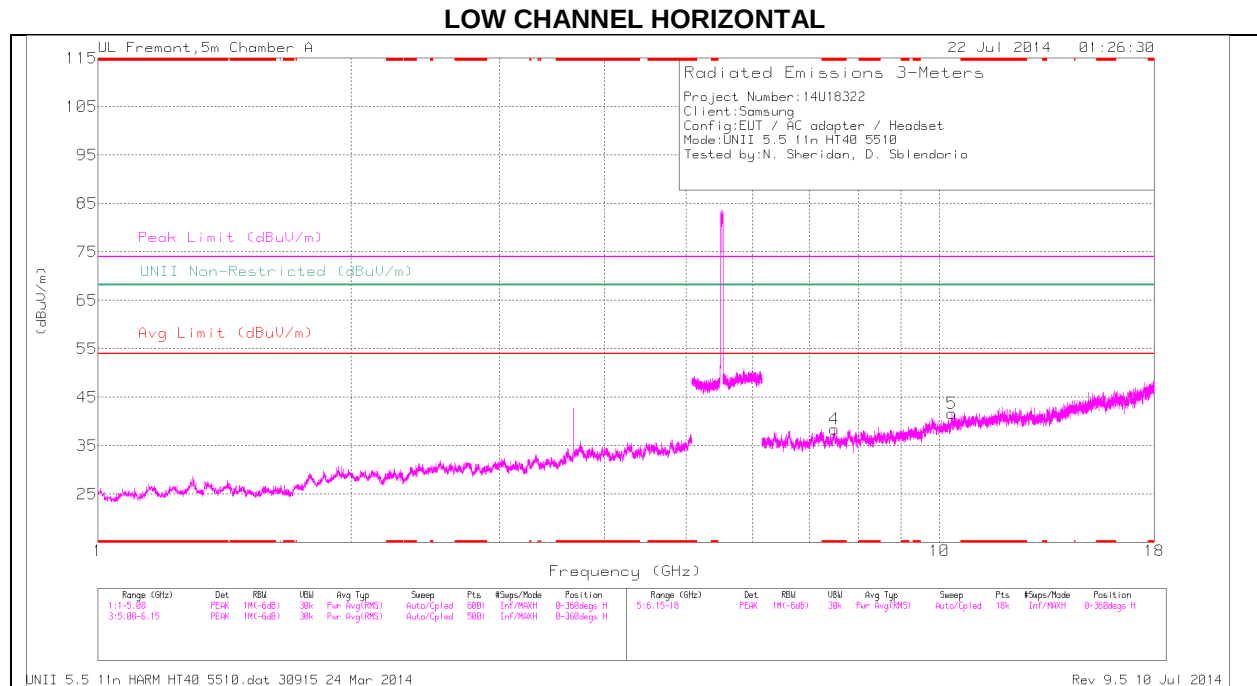
VERTICAL PEAK AND AVERAGE PLOT



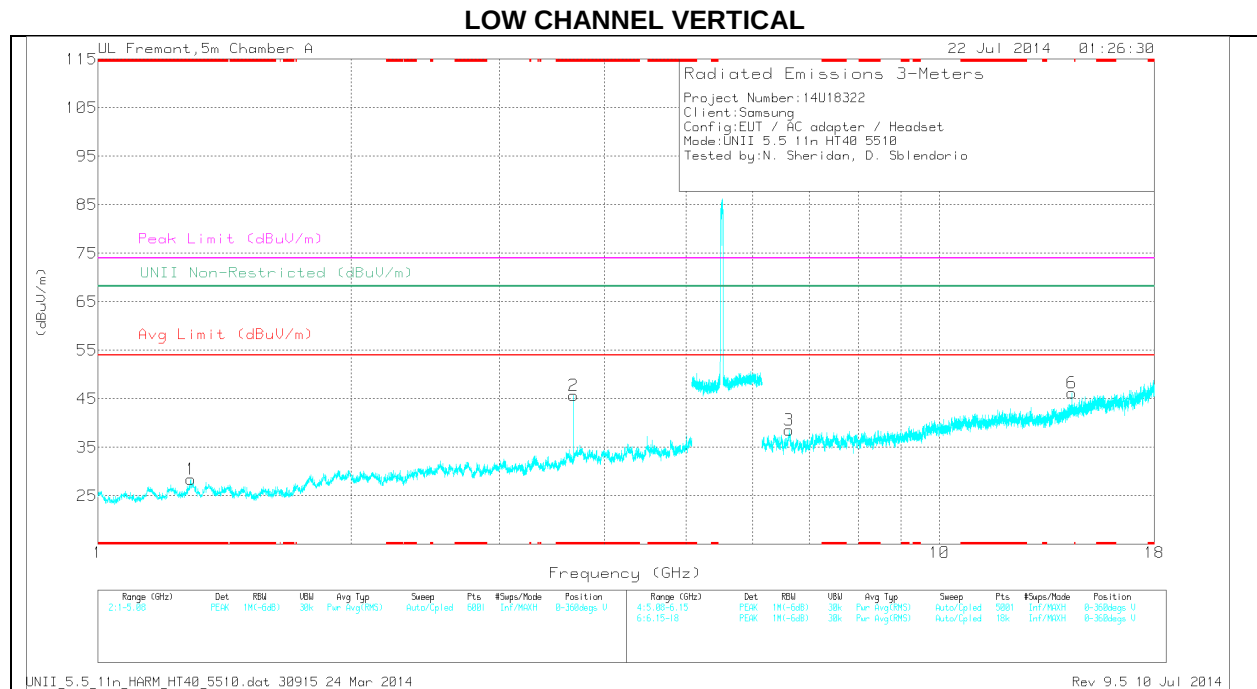
VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	38.9	PK	34.8	-21.1	0	54.4	68.5	-14.1	263	331	V
2	5.758	43.07	PK	34.8	-21.2	0	58.47	68.5	-10.03	263	331	V

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.



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

TRACE MARKERS

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	* 1.289	35.19	PK	30.1	-36.9	0	28.39	-	-	74	-45.61	-	-	0-360	201	V
2	* 3.674	44.19	PK	33.3	-31.8	0	45.69	-	-	74	-28.31	-	-	0-360	201	V
4	* 7.499	27.97	PK	35.3	-24.9	0	38.37	-	-	74	-35.63	-	-	0-360	100	H
3	6.629	28.93	PK	35.4	-25.8	0	38.53	-	-	-	-	68.2	-29.67	0-360	201	V
5	10.348	26.62	PK	37.3	-22.2	0	41.72	-	-	-	-	68.2	-26.48	0-360	201	H
6	14.355	28.89	PK	39.7	-22.4	0	46.19	-	-	-	-	68.2	-22.01	0-360	201	V

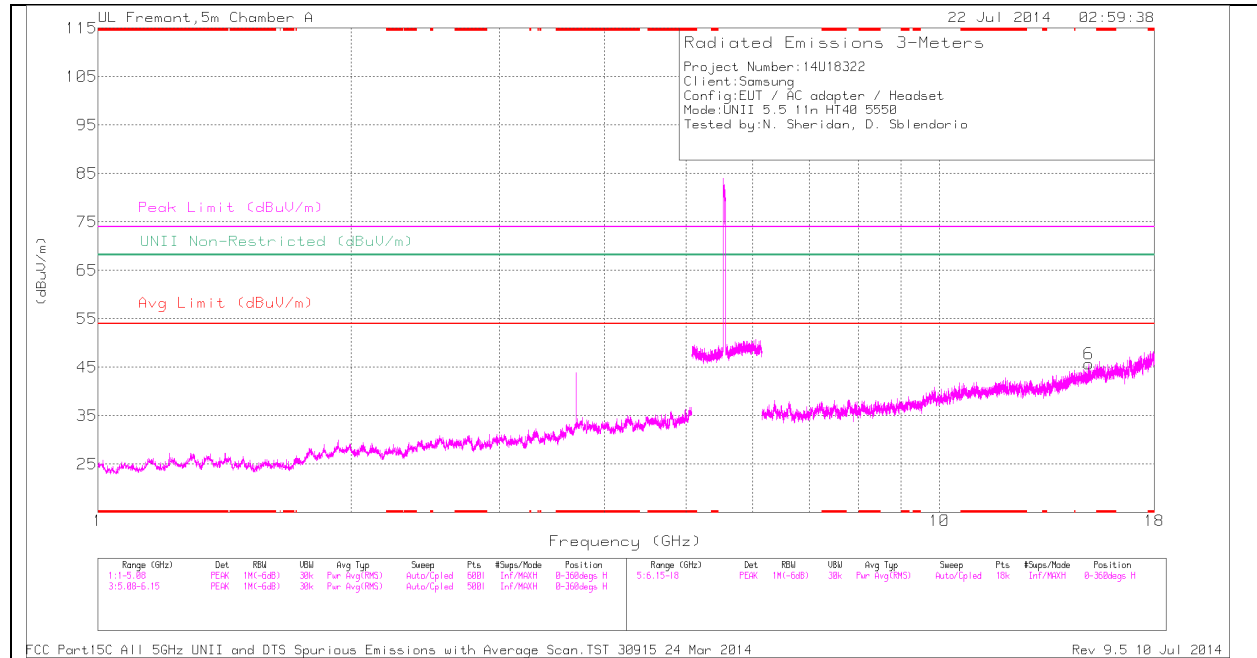
PK - Peak detector

RADIATED EMISSIONS

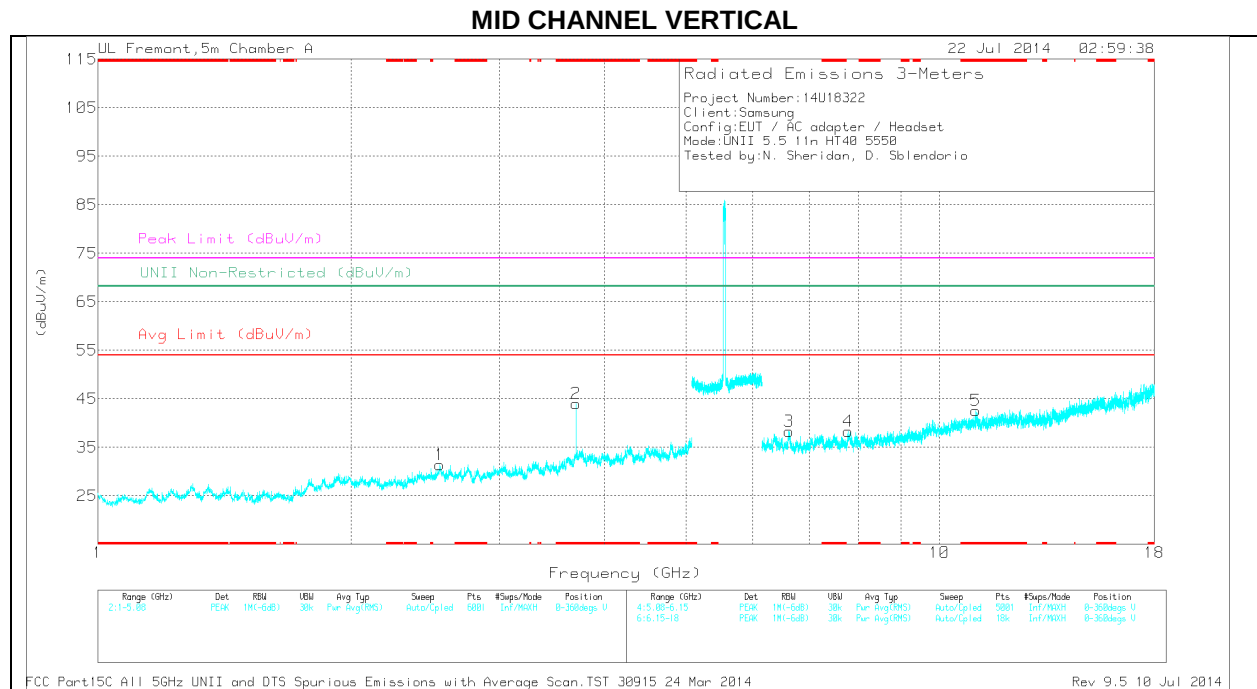
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.673	47.02	PK1	33.3	-31.8	0	48.52	-	-	74	-25.48	-	-	63	265	V
* 3.673	43.53	AD1	33.3	-31.8	.61	45.64	54	-8.36	-	-	-	-	63	265	V
* 7.498	35.08	PK1	35.3	-25	0	45.38	-	-	74	-28.62	-	-	63	100	H
* 7.499	24.27	AD1	35.3	-24.9	.61	35.28	54	-18.72	-	-	-	-	63	100	H

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MID CHANNEL HORIZONTAL



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



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MID CHANNEL DATA

TRACE MARKERS

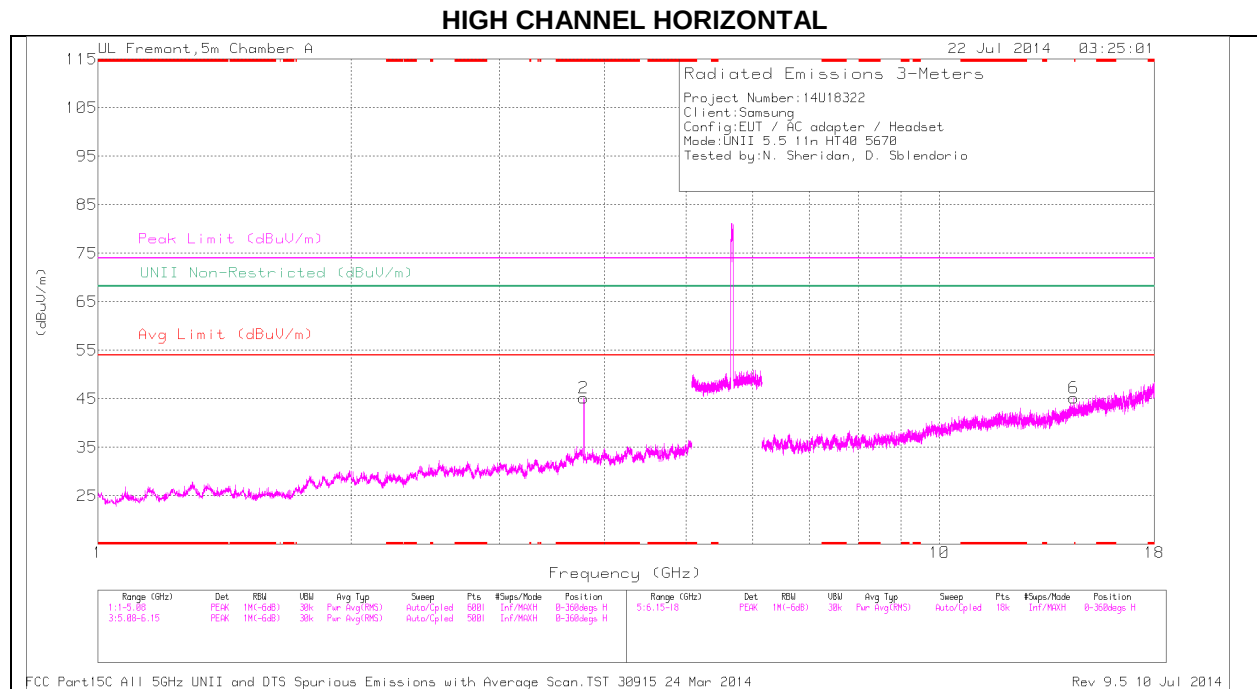
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Chl/ Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.7	41.01	PK	33.4	-30.4	0	44.01	-	-	74	-29.99	-	-	0-360	201	V
5	* 11.051	26.57	PK	37.7	-21.7	0	42.57	-	-	74	-31.43	-	-	0-360	100	V
1	2.548	31.23	PK	32.9	-32.7	0	31.43	-	-	-	-	68.2	-36.77	0-360	100	V
3	6.627	28.75	PK	35.4	-25.8	0	38.35	-	-	-	-	68.2	-29.85	0-360	100	V
4	7.787	28.25	PK	35.5	-25.4	0	38.35	-	-	-	-	68.2	-29.85	0-360	100	V
6	15.037	26.81	PK	40.2	-21.3	0	45.71	-	-	-	-	68.2	-22.49	0-360	100	H

PK - Peak detector

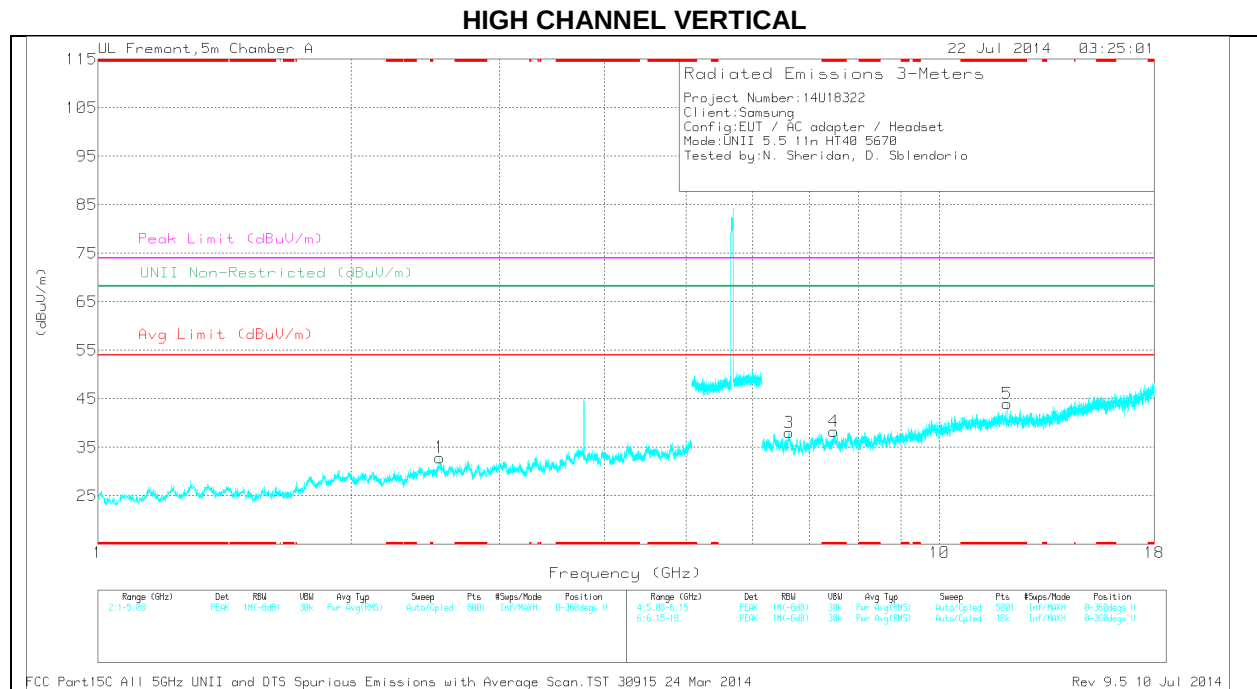
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Chl/ 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
* 3.7	42.21	PK1	33.4	-30.4	0	45.21	-	-	74	-28.79	-	-	63	357	V
* 3.7	36.42	AD1	33.4	-30.4	.61	40.03	54	-13.97	-	-	-	-	63	357	V

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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.

HIGH CHANNEL DATA

TRACE MARKERS

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
2	* 3.78	42.58	PK	33.6	-31	0	45.18	-	-	74	-28.82	-	-	0-360	201	H
4	* 7.493	28.24	PK	35.3	-25.2	0	38.34	-	-	74	-35.66	-	-	0-360	100	V
5	* 12.03	26.76	PK	38.9	-21.7	0	43.96	-	-	74	-30.04	-	-	0-360	201	V
1	2.548	32.61	PK	32.9	-32.6	0	32.91	-	-	-	-	68.2	-35.29	0-360	100	V
3	6.631	28.42	PK	35.4	-25.8	0	38.02	-	-	-	-	68.2	-30.18	0-360	201	V
6	14.435	28.75	PK	39.8	-23.4	0	45.15	-	-	-	-	68.2	-23.05	0-360	100	H

PK - Peak detector

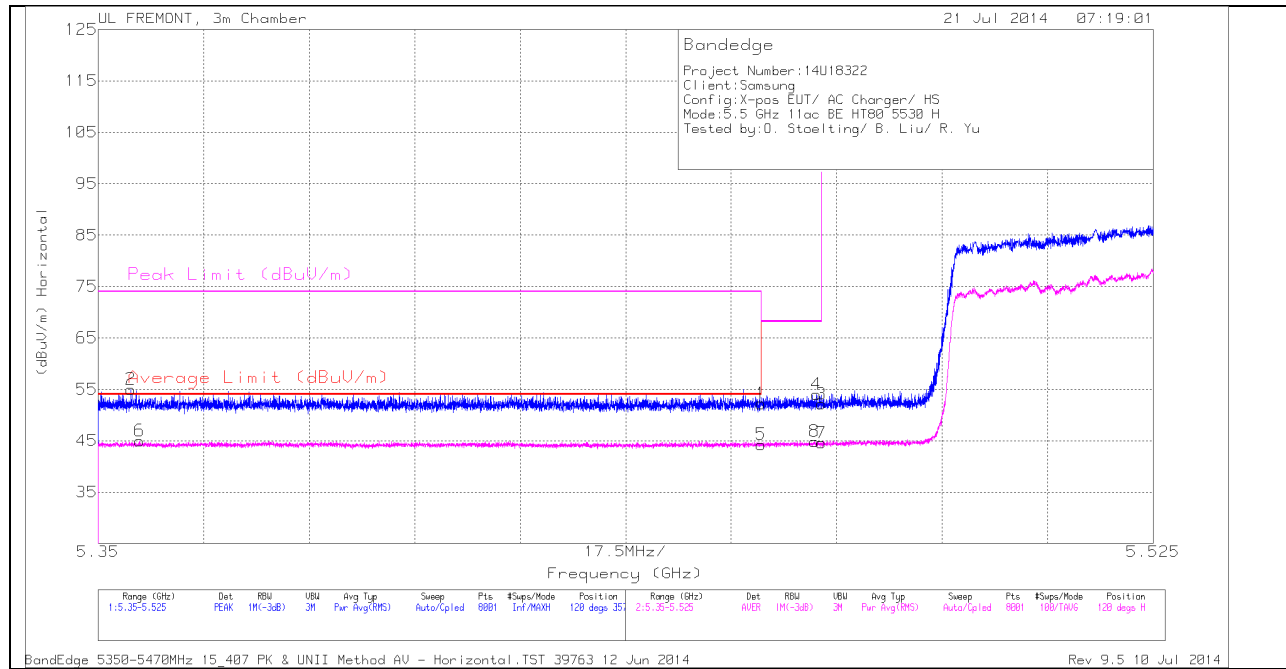
RADIATED EMISSIONS

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
* 3.78	45.67	PK1	33.6	-31	0	48.27	-	-	74	-25.73	-	-	42	226	H
* 3.78	41.81	AD1	33.6	-31	.61	45.02	54	-8.98	-	-	-	-	42	226	H

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

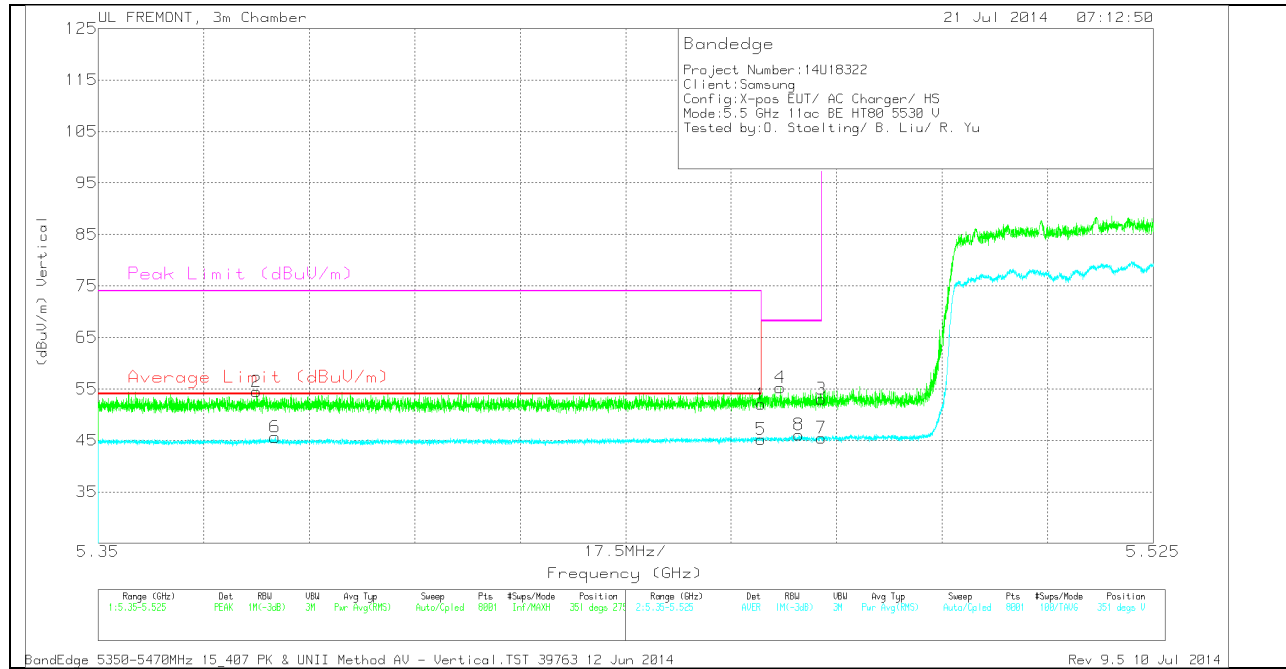
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	5.355	42.01	PK	34.5	-21.5	0	55.01	-	-	74	-18.99	120	357	H
6	5.357	30.04	RMS	34.6	-21.5	1.85	44.99	54	-9.01	-	-	120	357	H
1	5.46	38.84	PK	34.8	-21.4	0	52.24	-	-	74	-21.76	120	357	H
5	5.46	29.02	RMS	34.8	-21.4	1.85	44.27	54	-9.73	-	-	120	357	H
4	5.469	40.51	PK	34.8	-21.3	0	54.01	-	-	68.2	-14.19	120	357	H
8	5.469	29.52	RMS	34.8	-21.3	1.85	44.87	-	-	-	-	120	357	H
3	5.47	38.63	PK	34.8	-21.3	0	52.13	-	-	68.2	-16.07	120	357	H
7	5.47	29.2	RMS	34.8	-21.3	1.85	44.55	-	-	-	-	120	357	H

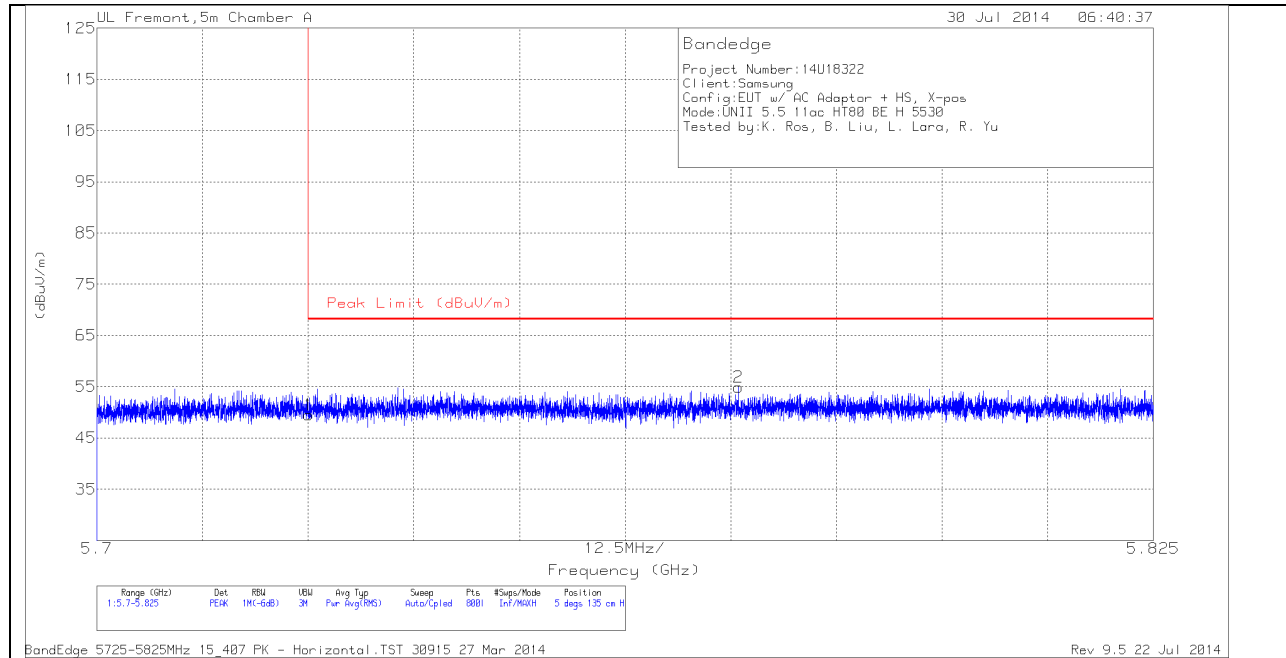
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	5.376	41.19	PK	34.6	-21.3	0	54.49	-	-	74	-19.51	351	275	V
6	5.379	30.49	RMS	34.6	-21.3	1.85	45.64	54	-8.36	-	-	351	275	V
1	5.46	38.61	PK	34.8	-21.4	0	52.01	-	-	74	-21.99	351	275	V
5	5.46	29.96	RMS	34.8	-21.4	1.85	45.21	54	-8.79	-	-	351	275	V
4	5.463	41.86	PK	34.8	-21.4	0	55.26	-	-	68.2	-12.94	351	275	V
8	5.466	30.74	RMS	34.8	-21.3	1.85	46.09	-	-	-	-	351	275	V
3	5.47	39.53	PK	34.8	-21.3	0	53.03	-	-	68.2	-15.17	351	275	V
7	5.47	30.11	RMS	34.8	-21.3	1.85	45.46	-	-	-	-	351	275	V

HORIZONTAL PEAK AND AVERAGE PLOT

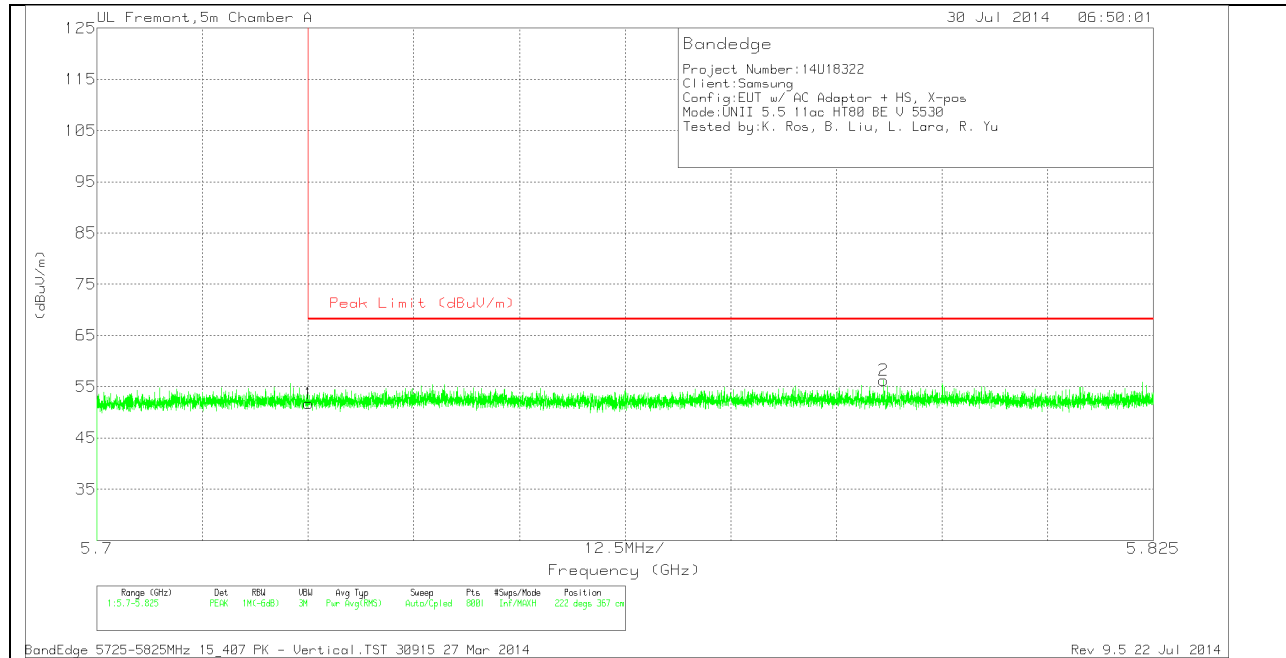


HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/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	34.46	PK	34.6	-19.6	0	49.46	68.2	-18.74	5	135	H
2	5.776	39.56	PK	34.7	-19.4	0	54.86	68.2	-13.34	5	135	H

PK - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



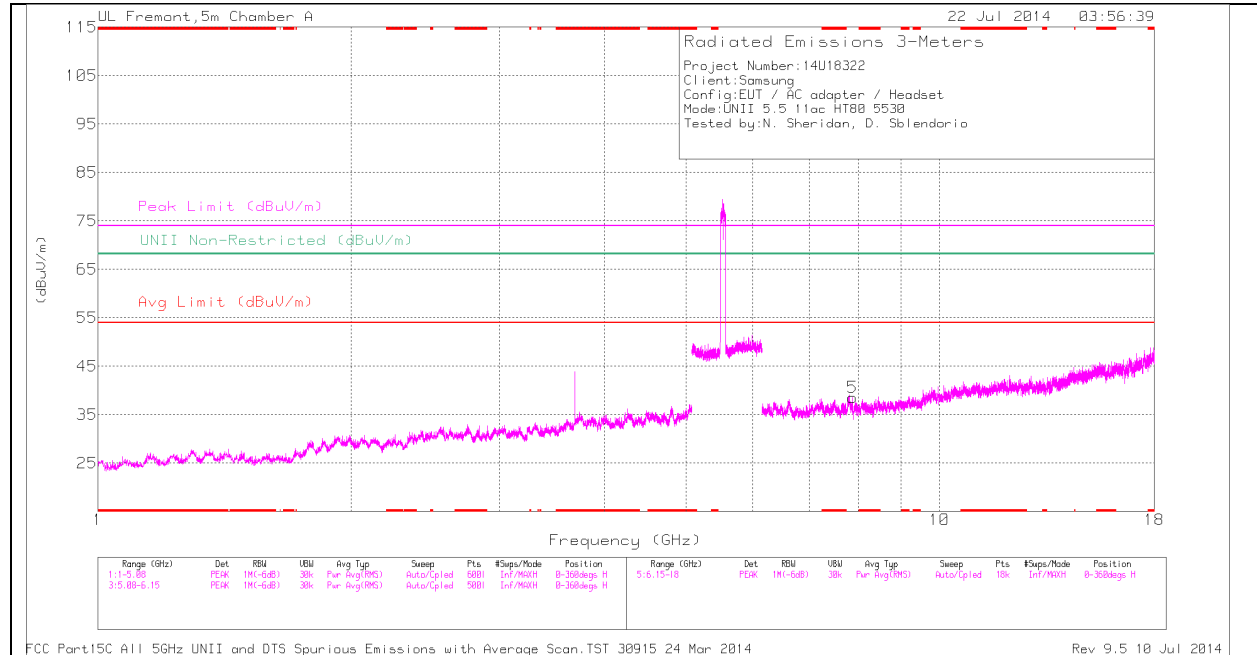
VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT136 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	36.75	PK	34.6	-19.6	51.75	68.2	-16.45	222	367	V
2	5.793	40.86	PK	34.7	-19.3	56.26	68.2	-11.94	222	367	V

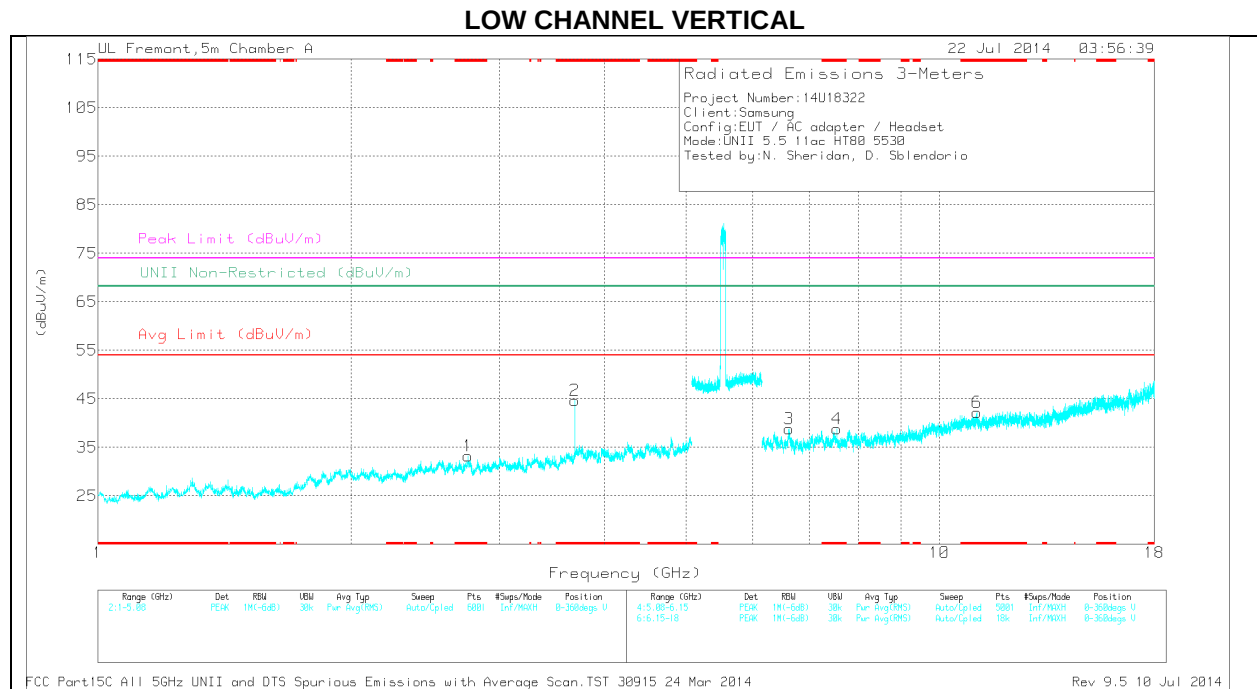
PK - Peak detector

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.



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

TRACE MARKERS

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	* 2.754	32.24	PK	32.7	-31.7	0	33.24	-	-	74	-40.76	-	-	0-360	100	V
2	* 3.687	42.52	PK	33.3	-31.1	0	44.72	-	-	74	-29.28	-	-	0-360	100	V
4	* 7.555	28.8	PK	35.3	-25.3	0	38.8	-	-	74	-35.2	-	-	0-360	100	V
6	* 11.088	26.64	PK	37.7	-22.1	0	42.24	-	-	74	-31.76	-	-	0-360	201	V
3	6.622	29.25	PK	35.5	-25.9	0	38.85	-	-	-	-	68.2	-29.35	0-360	100	V
5	7.886	29.4	PK	35.5	-26.3	0	38.6	-	-	-	-	68.2	-29.6	0-360	100	H

PK - Peak detector

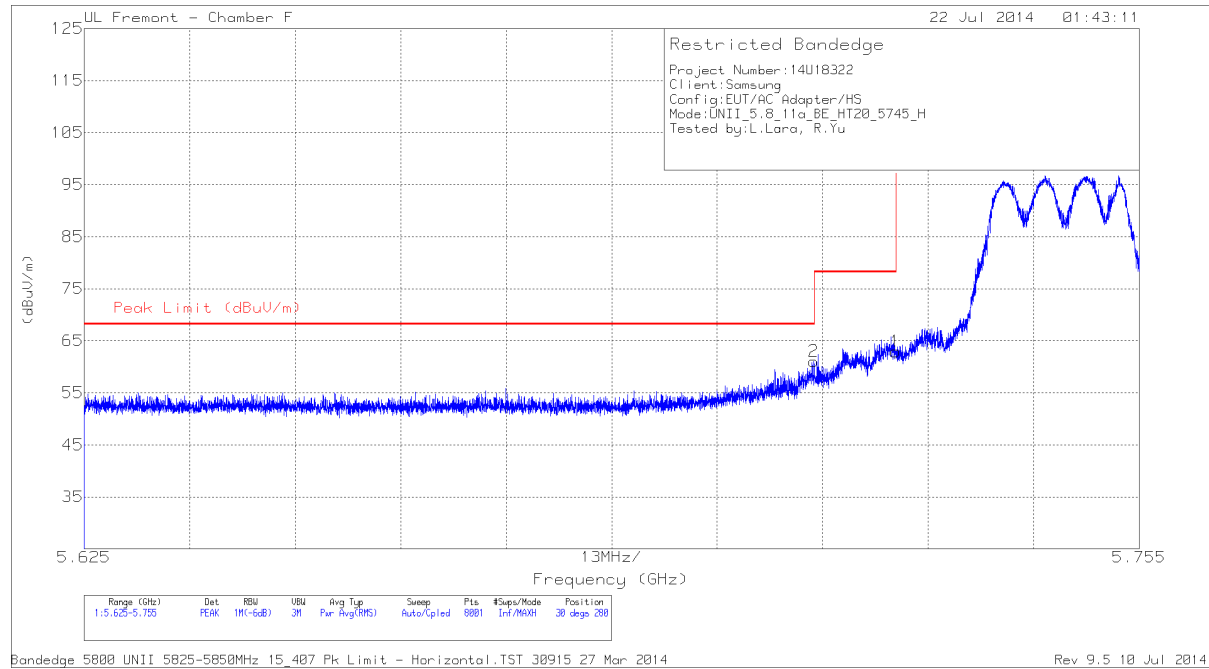
RADIATED EMISSIONS

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
* 3.687	47.64	PK1	33.3	-31.1	0	49.84	-	-	74	-24.16	-	-	260	334	V
* 3.687	43.88	AD1	33.3	-31.1	1.85	47.93	54	-6.07	-	-	-	-	260	334	V

FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

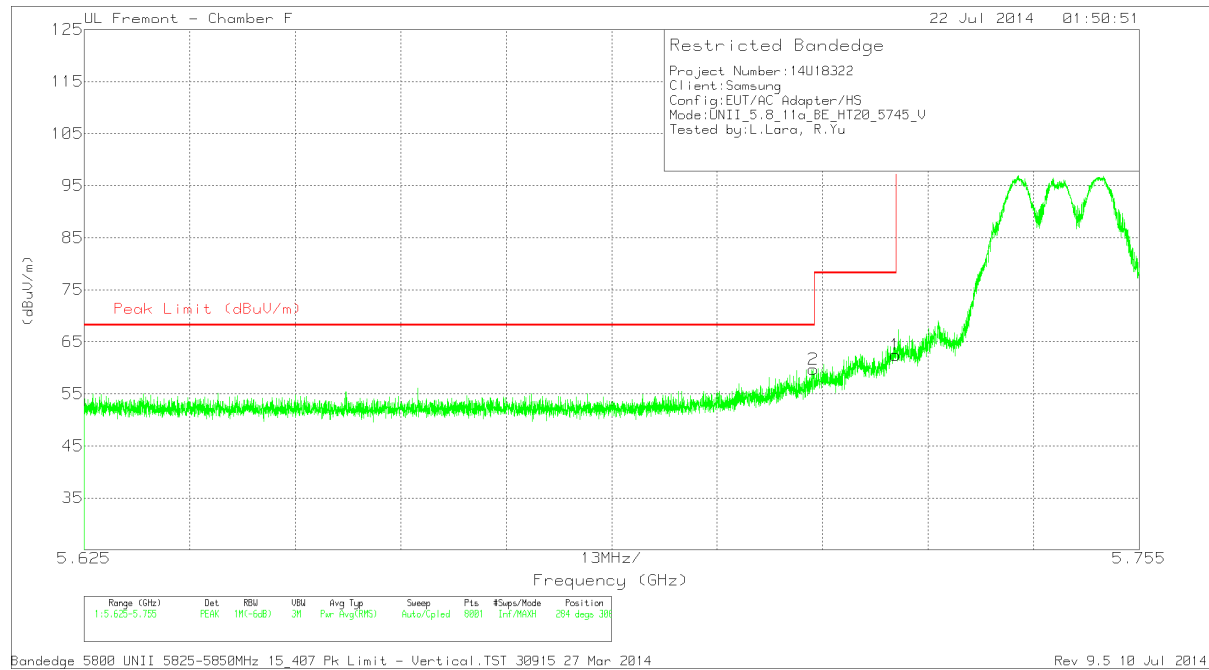
11.4. 5.8 GHz

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



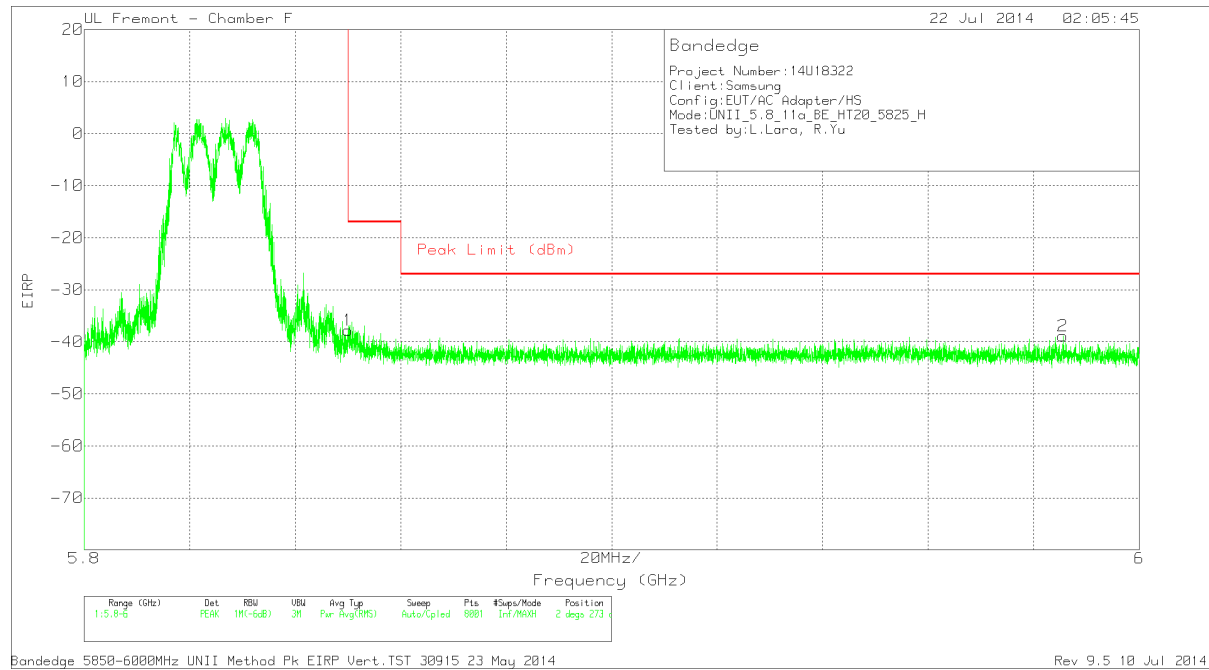
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	47.24	PK	34.8	-19.1	0	62.94	78.2	-15.26	30	280	H
2	5.715	45.36	PK	34.8	-19.1	0	61.06	68.2	-7.14	30	280	H

PK - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	46.75	PK	34.8	-19.1	0	62.45	78.2	-15.75	284	306	V
2	5.715	44.01	PK	34.8	-19.1	0	59.71	68.2	-8.49	284	306	V

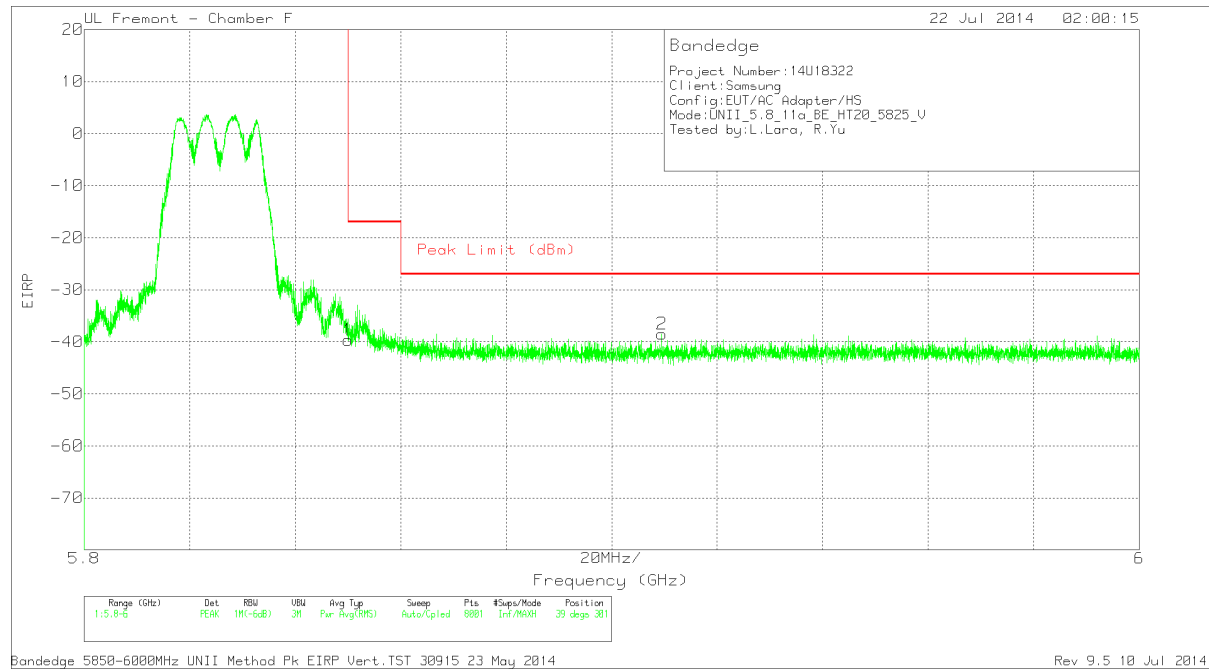
PK - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-65.70	PK	35	-19	0	11.8	-37.90	-27	-10.90	2	273	H
2	5.986	-67.50	PK	35.3	-18.6	0	11.8	-39.0	-27	-12.0	2	273	H

PK - Peak detector

Note: Plot above is pre-scan data with inadequacy limit. Please refer to table for final data.

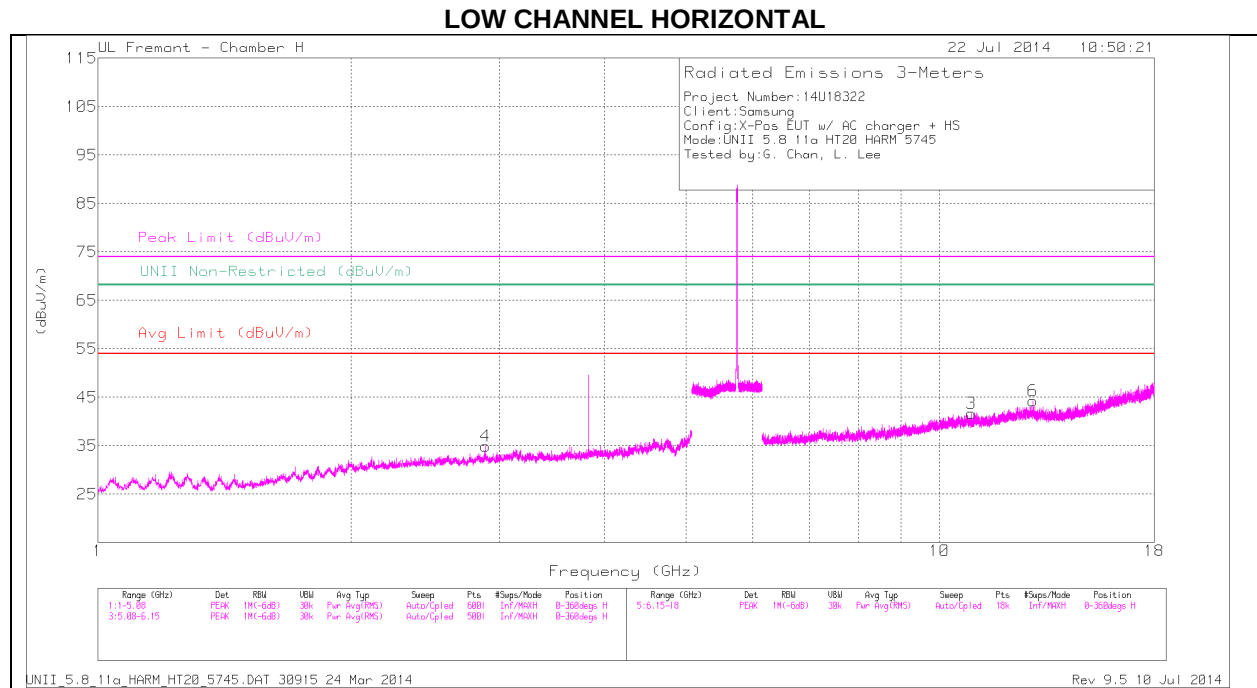


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-67.46	PK	35	-19	0	11.8	-39.66	-27	-12.66	39	301	V
2	5.91	-66.4	PK	35.2	-19.1	0	11.8	-38.5	-27	-11.5	39	301	V

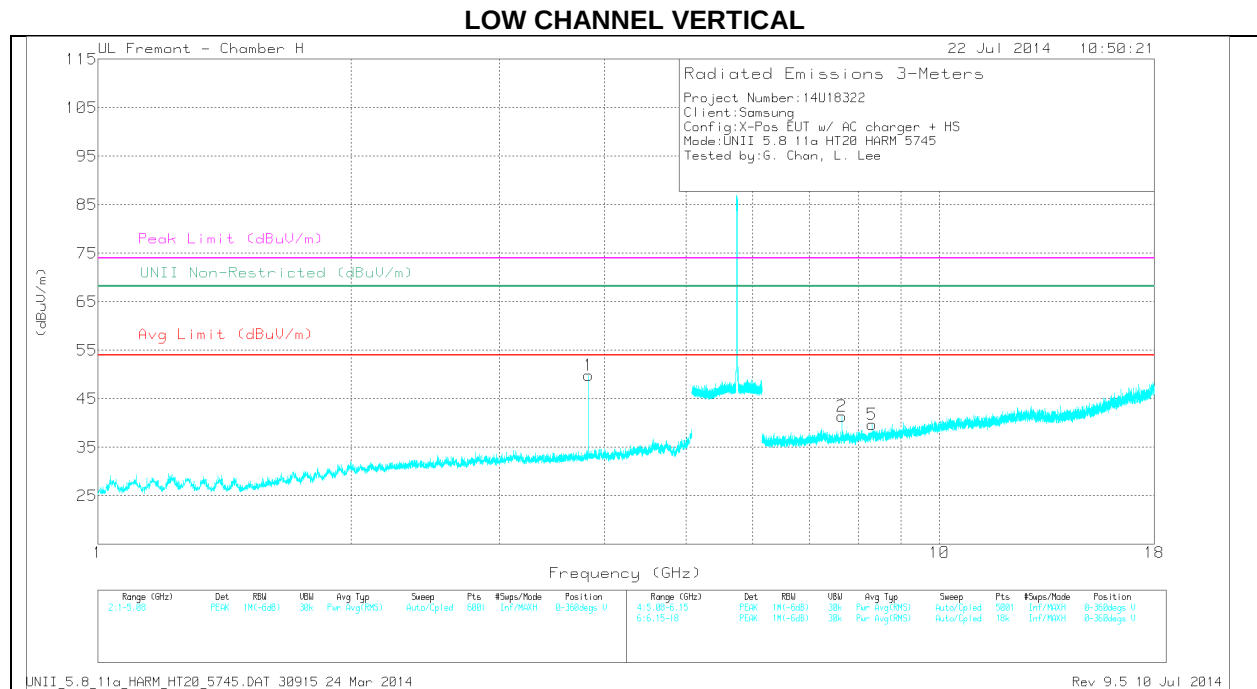
PK - Peak detector

Note: Plot above is pre-scan data with inadequacy limit. Please refer to table for final data.

11.4.2. TX ABOVE 1 GHz 802.11a MODE IN THE 5.8 GHz BAND 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.



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.89	35.58	PK	32.6	-33.3	0	34.88	-	-	74	-39.12	-	-	0-360	201	H
1	* 3.83	49.31	PK	33.3	-32.7	0	49.91	-	-	74	-24.09	-	-	0-360	201	V
3	* 10.907	29.72	PK	37.7	-25.7	0	41.72	-	-	74	-32.28	-	-	0-360	100	H
2	* 7.66	35	PK	36.1	-29.7	0	41.4	-	-	74	-32.6	-	-	0-360	202	V
5	* 8.314	30.71	PK	36.1	-27.1	0	39.71	-	-	74	-34.29	-	-	0-360	202	V
6	12.915	29.76	PK	39.2	-24.7	0	44.26	-	-	-	-	68.2	-23.94	0-360	100	H

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

PK - Peak detector

Radiated Emissions

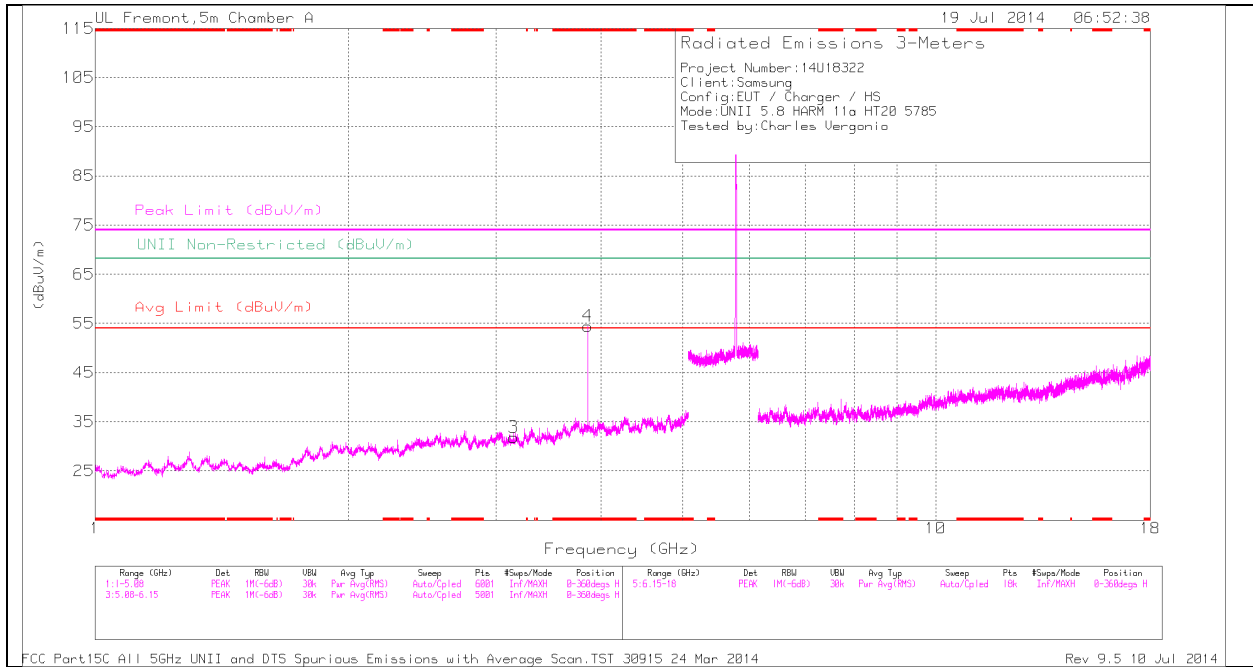
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.83	52.16	PK1	33.3	-32.7	0	52.76	-	-	74	-21.24	-	-	86	301	V
* 3.83	48.97	AD1	33.3	-32.7	.29	49.86	54	-4.14	-	-	-	-	86	301	V
* 7.66	42.42	PK1	36.1	-29.7	0	48.82	-	-	74	-25.18	-	-	314	303	V
* 7.66	35.91	AD1	36.1	-29.7	.29	42.60	54	-11.40	-	-	-	-	314	303	V
* 8.313	37.7	PK1	36.1	-27.1	0	46.7	-	-	74	-27.3	-	-	314	202	V
* 8.313	26.89	AD1	36.1	-27.1	.29	36.18	54	-17.82	-	-	-	-	314	202	V

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

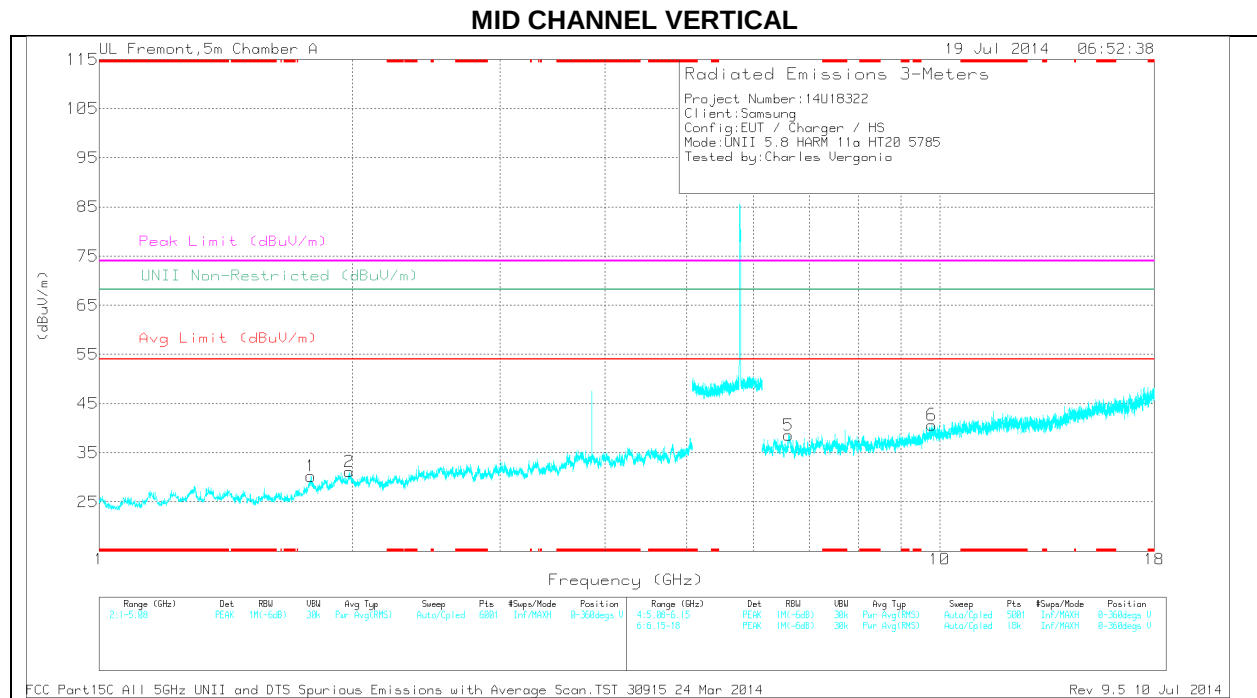
PK1 - KDB789033 Method: Peak

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.



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

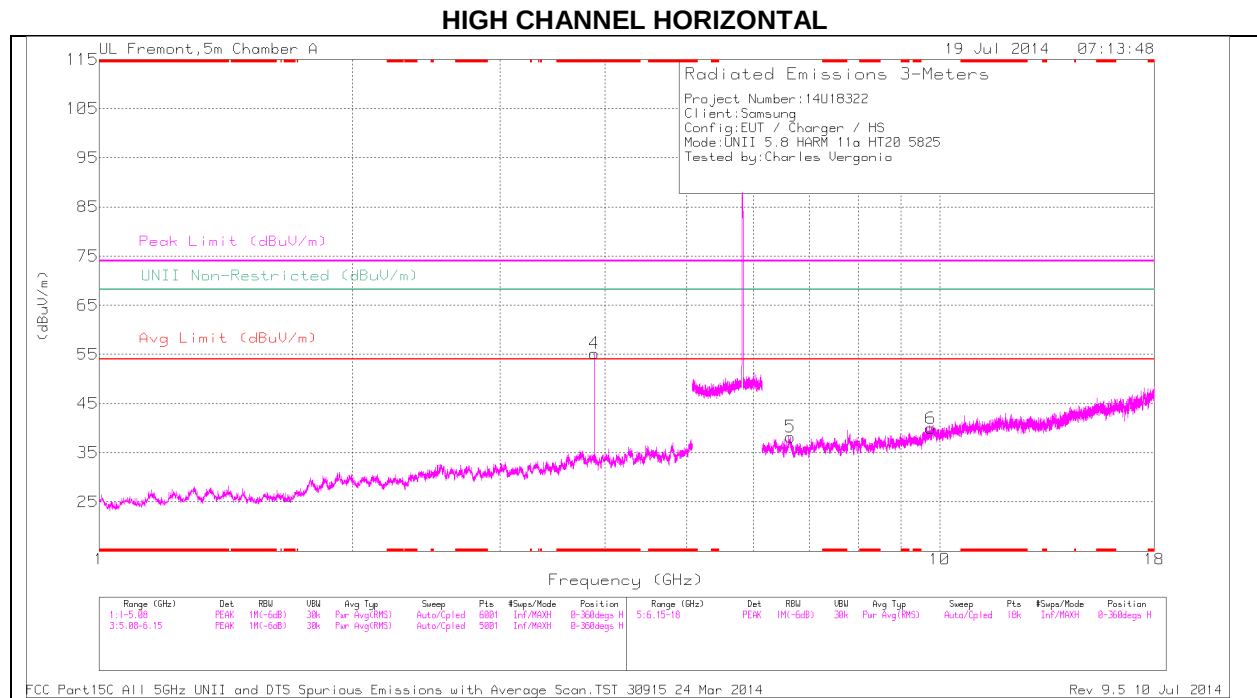
TRACE MARKERS

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
4	* 3.857	51.86	PK	33.7	-31.1	0	54.46	-	-	74	-19.54	-	-	0-360	100	H
1	1.787	34.12	PK	30.4	-34.3	0	30.22	-	-	-	-	68.2	-37.98	0-360	201	V
2	1.985	33.73	PK	32	-34.6	0	31.13	-	-	-	-	68.2	-37.07	0-360	201	V
3	3.149	31.64	PK	32.7	-32.5	0	31.84	-	-	-	-	68.2	-36.36	0-360	201	H
5	6.609	28.66	PK	35.5	-25.6	0	38.56	-	-	-	-	68.2	-29.64	0-360	100	V
6	9.787	26.53	PK	36.9	-22.8	0	40.63	-	-	-	-	68.2	-27.57	0-360	100	V

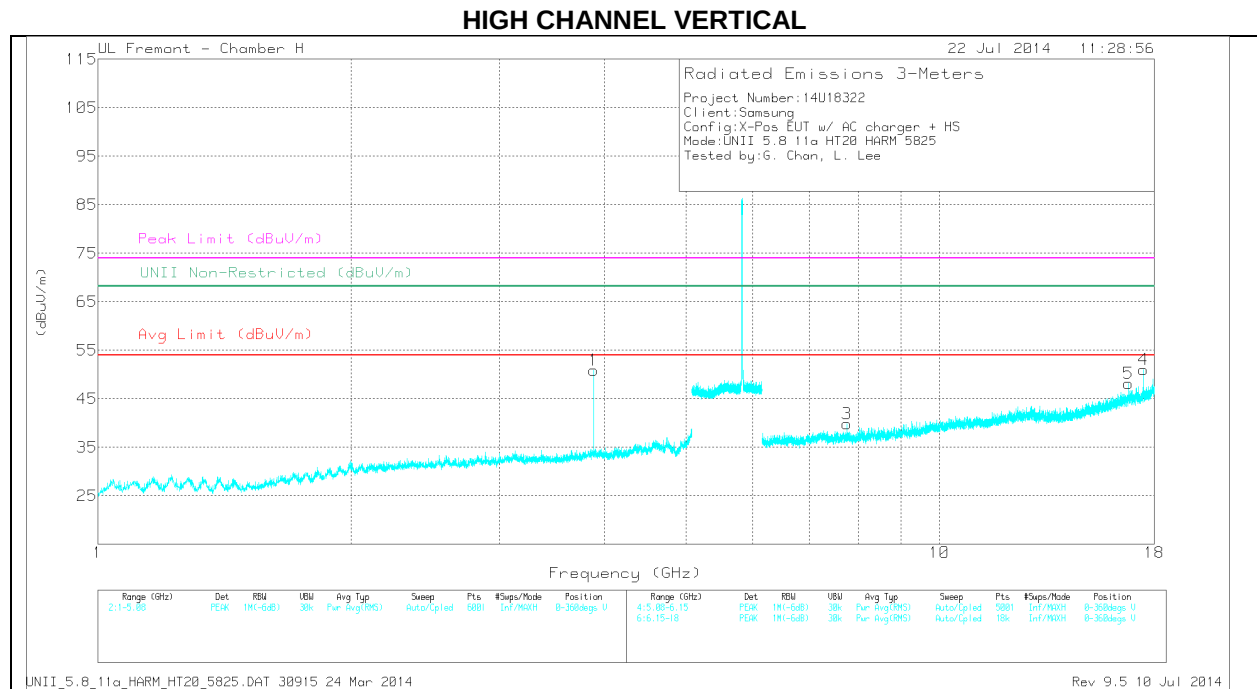
PK - Peak detector

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
* 3.857	52.14	PK1	33.7	-31.1	0	54.74	-	-	74	-19.26	-	-	184	150	H
* 3.857	50.08	AD1	33.7	-31.1	.29	52.97	54	-1.03	-	-	-	-	184	150	H



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.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 4.128	34.75	PK	33.5	-32.2	0	36.05	-	-	74	-37.95	-	-	0-360	100	H
1	* 3.883	50.31	PK	33.4	-32.8	0	50.91	-	-	74	-23.09	-	-	0-360	201	V
2	2.643	34.79	PK	32.3	-33.5	0	33.59	-	-	-	-	68.2	-34.61	0-360	100	H
3	7.767	33.21	PK	36.1	-29.4	0	39.91	-	-	-	-	68.2	-28.29	0-360	201	V
5	16.768	29.53	PK	42.3	-23.7	0	48.13	-	-	-	-	68.2	-20.07	0-360	201	V
4	17.479	31.83	PK	42.1	-22.9	0	51.03	-	-	-	-	68.2	-17.17	0-360	201	V

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

PK - Peak detector

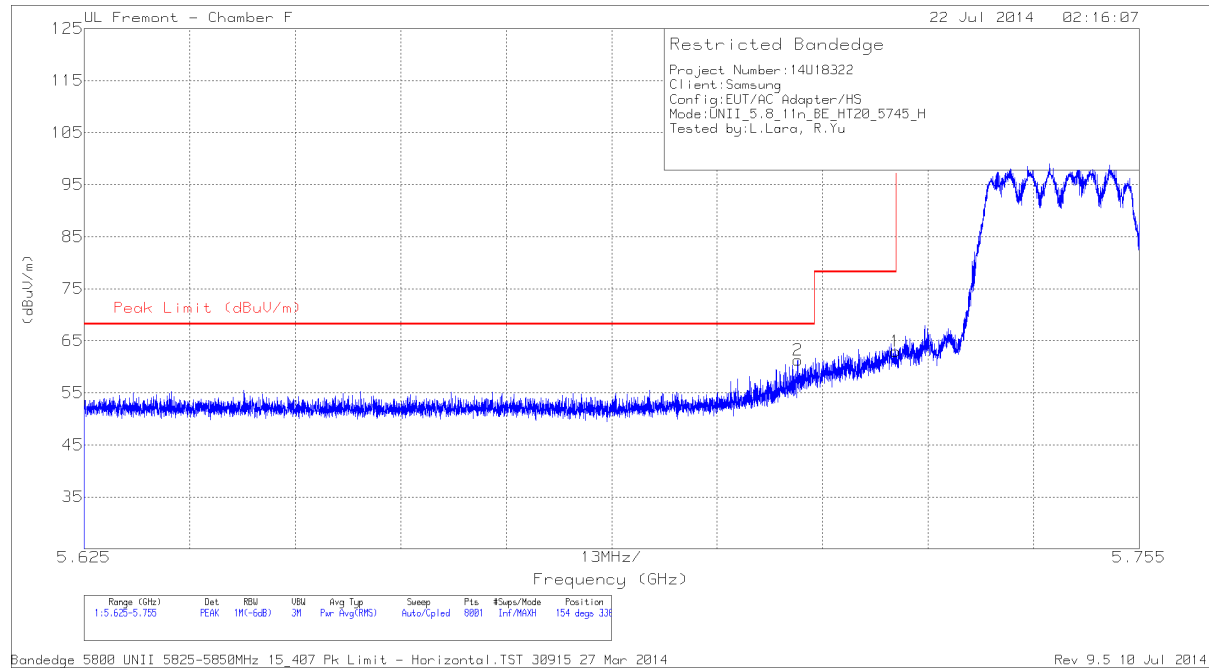
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.883	52.83	PK1	33.4	-32.8	0	53.43	-	-	74	-20.57	-	-	80	233	V
* 3.883	50.7	AD1	33.4	-32.8	.29	51.59	54	-2.41	-	-	-	-	80	233	V
7.767	28.88	AD1	36.1	-29.4	.29	35.87	-	-	-	-	-	-	80	201	V
7.769	38.94	PK1	36.1	-29.4	0	45.64	-	-	-	-	68.2	-22.56	80	201	V

PK1 - KDB789033 Method: Peak

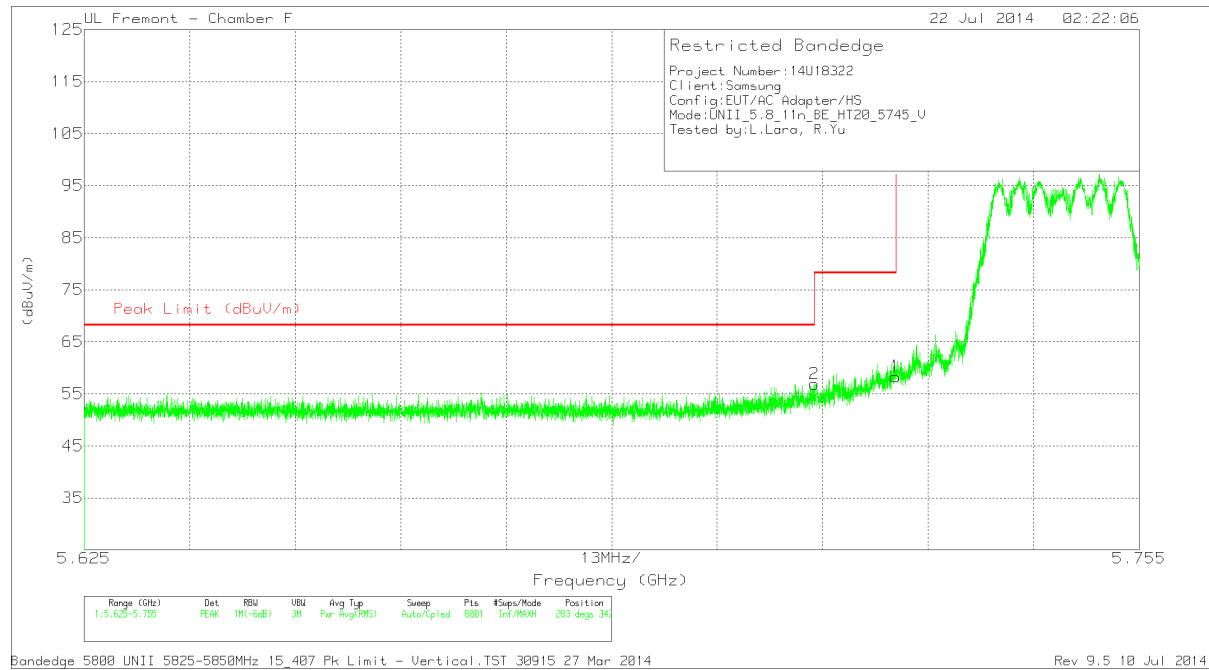
AD1 - KDB789033 Method: AD Primary Power Average

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



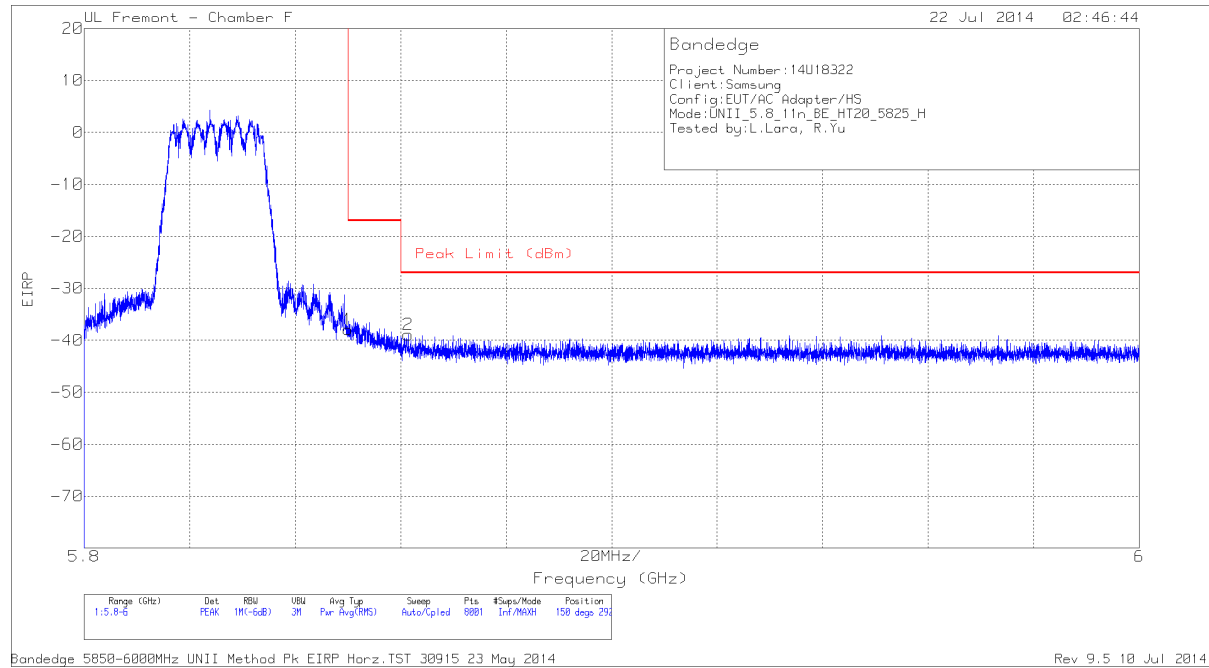
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	47.29	PK	34.8	-19.1	0	62.99	78.2	-15.21	154	336	H
2	5.713	45.58	PK	34.8	-19.1	0	61.28	68.2	-6.92	154	336	H

PK - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	42.61	PK	34.8	-19.1	0	58.31	78.2	-19.89	283	342	V
2	5.715	41.2	PK	34.8	-19.1	0	56.9	68.2	-11.3	283	342	V

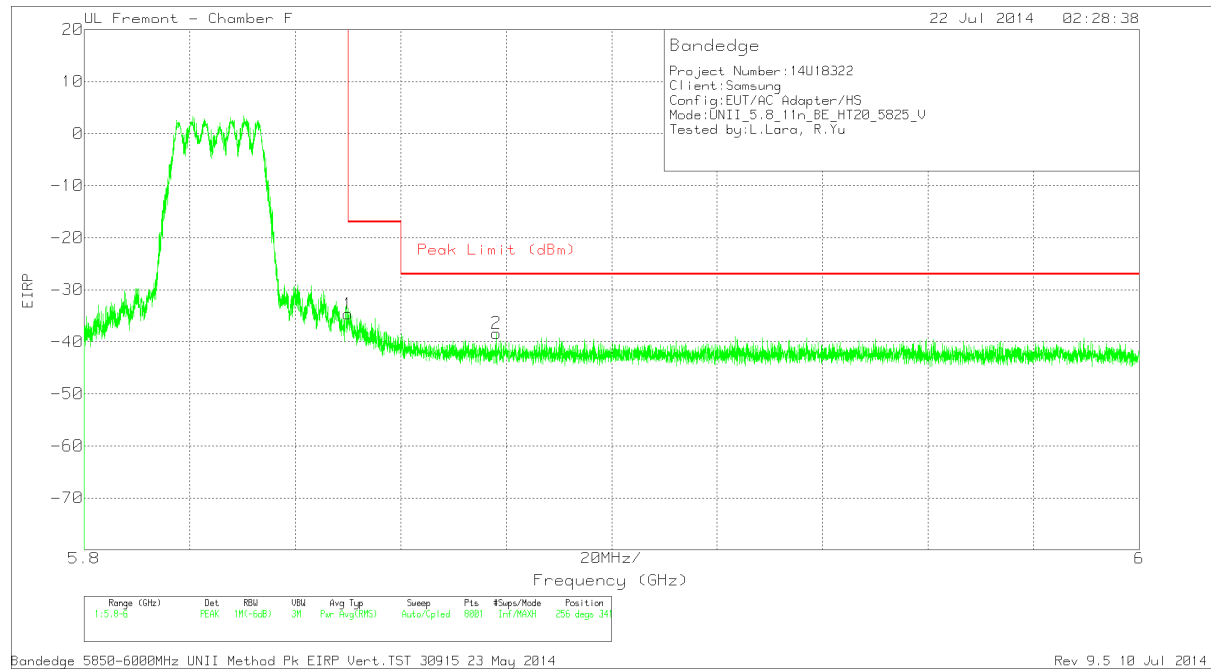
PK - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT120 (dB/m)	Amp/Cbl/ Fitr/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	-65.73	PK	35	-19	11.8	0	-37.93	-27	-10.93	150	292	H
2	5.861	-66.72	PK	35.1	-19.1	11.8	0	-38.92	-27	-11.92	150	292	H

PK - Peak detector

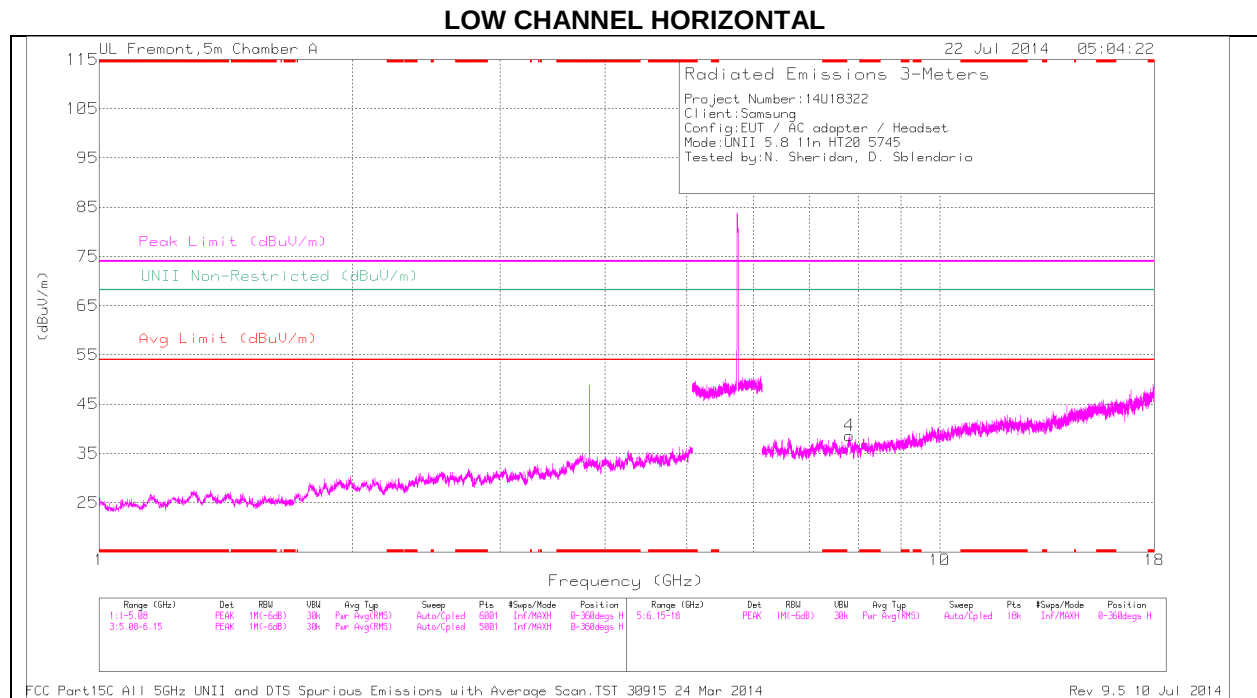
Note: Plot above is pre-scan data with inadequacy limit. Please refer to table for final data.



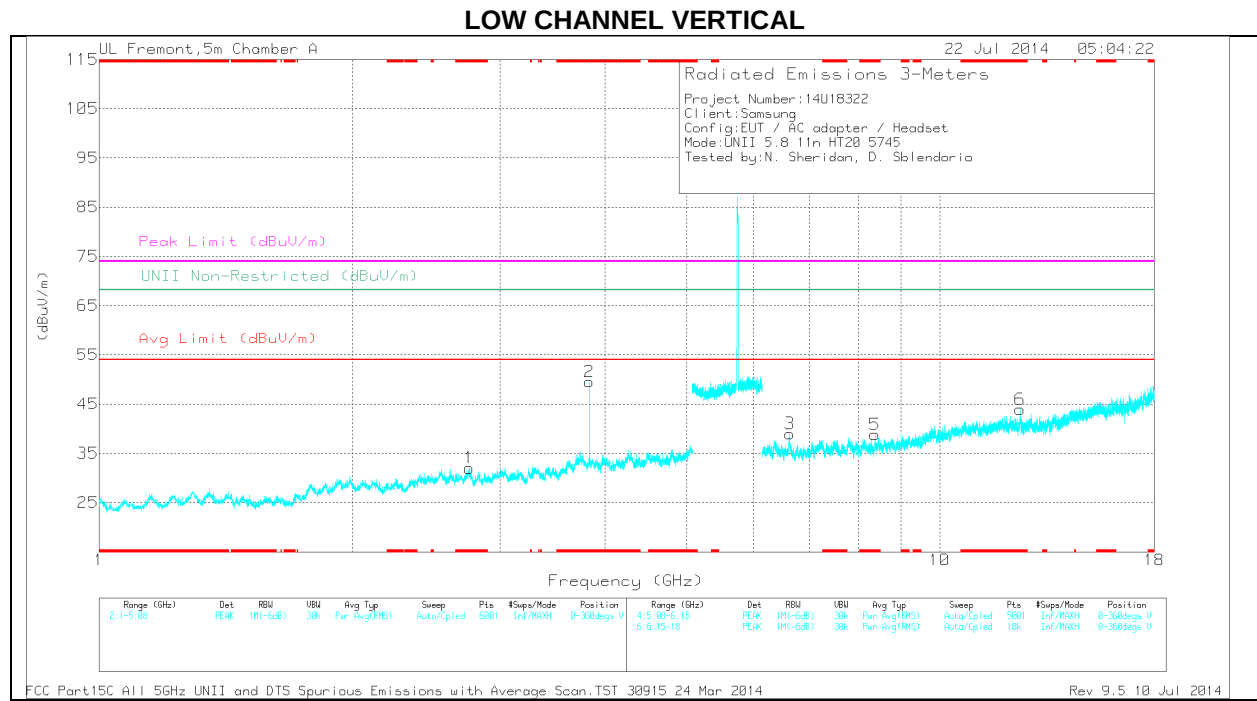
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-62.46	PK	35	-19	11.8	-34.66	-27	-7.66	256	341	V
2	5.878	-66.06	PK	35.1	-19.2	11.8	-38.36	-27	-11.36	256	341	V

PK - Peak detector

Note: Plot above is pre-scan data with inadequacy limit. Please refer to table for final data.



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

TRACE MARKERS

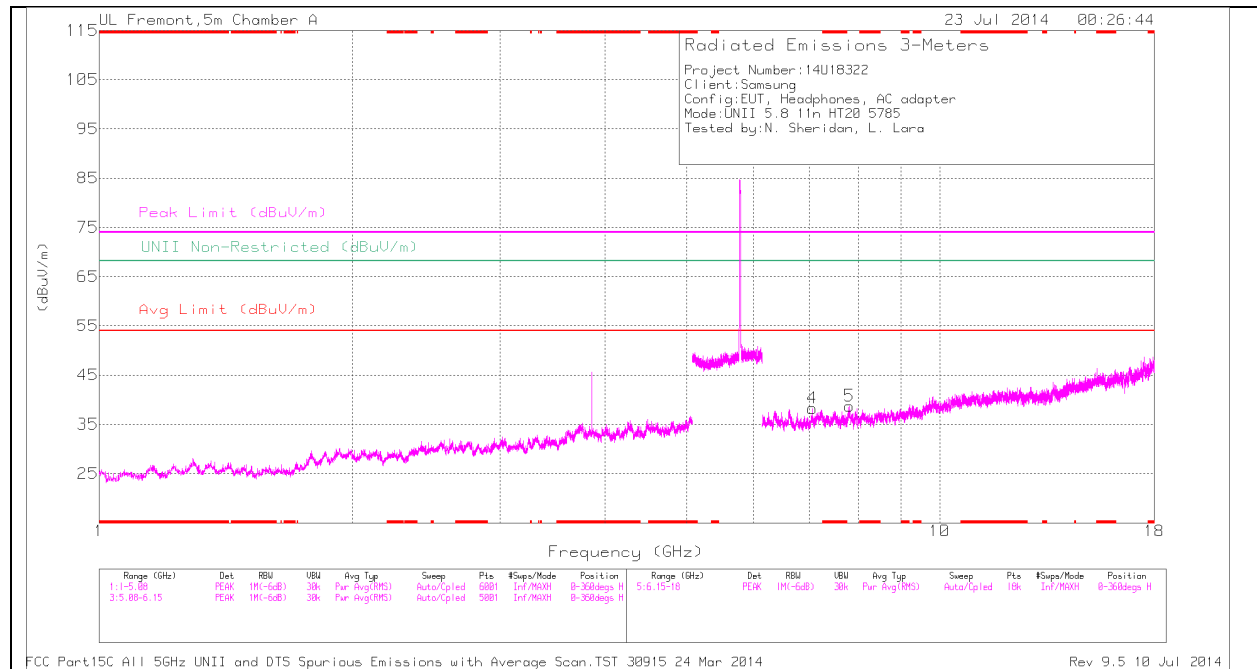
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.756	31.11	PK	32.7	-31.8	0	32.01	-	-	74	-41.99	-	-	0-360	100	V
2	* 3.83	47.07	PK	33.7	-31.2	0	49.57	-	-	74	-24.43	-	-	0-360	201	V
5	* 8.374	29.04	PK	35.7	-25.9	0	38.84	-	-	74	-35.16	-	-	0-360	201	V
6	* 12.462	27.02	PK	38.8	-21.9	0	43.92	-	-	74	-30.08	-	-	0-360	100	V
3	6.63	29.38	PK	35.4	-25.8	0	38.98	-	-	-	-	68.2	-29.22	0-360	100	V
4	7.814	27.61	PK	35.5	-24.5	0	38.61	-	-	-	-	68.2	-29.59	0-360	100	H

PK - Peak detector

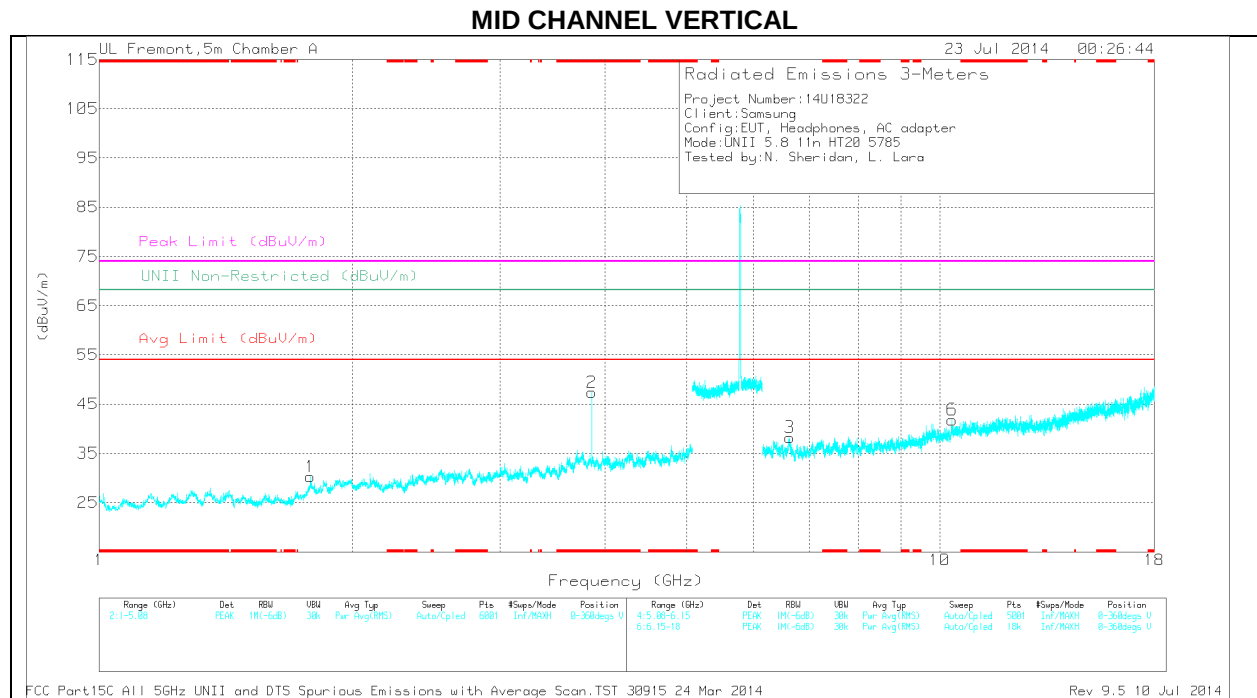
RADIATED EMISSIONS

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
* 3.83	48.53	PK1	33.7	-31.2	0	51.03	-	-	74	-22.97	-	-	128	266	V
* 3.83	47.09	AD1	33.7	-31.2	.33	49.92	54	-4.08	-	-	-	-	128	266	V

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.



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

Trace Markers

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
2	* 3.857	44.8	PK	33.7	-31.1	0	47.4	-	-	74	-26.6	-	-	0-360	201	V
1	1.785	34.26	PK	30.3	-34.3	0	30.26	-	-	-	-	68.2	-37.94	0-360	100	V
3	6.629	28.62	PK	35.4	-25.8	0	38.22	-	-	-	-	68.2	-29.98	0-360	100	V
4	7.056	29.76	PK	35.3	-26.8	0	38.26	-	-	-	-	68.2	-29.94	0-360	201	H
5	7.814	27.62	PK	35.5	-24.4	0	38.72	-	-	-	-	68.2	-29.48	0-360	100	H
6	10.347	26.72	PK	37.3	-22.2	0	41.82	-	-	-	-	68.2	-26.38	0-360	100	V

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

PK - Peak detector

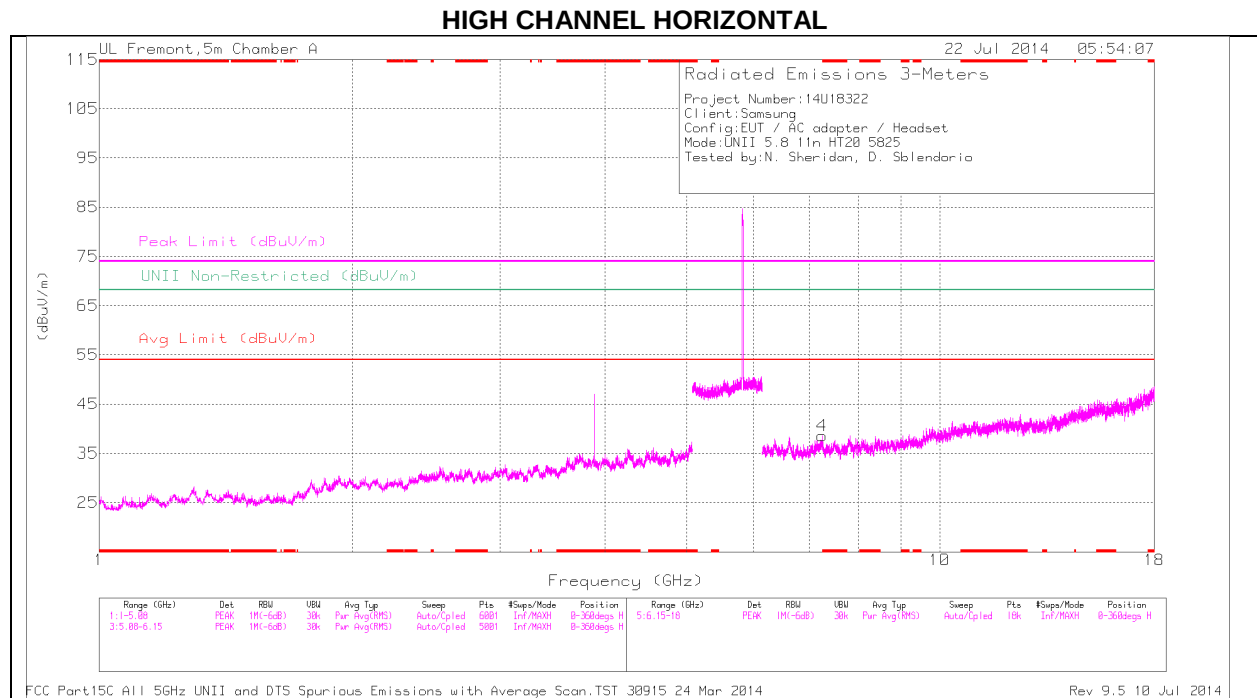
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 3.857	48.4	PK1	33.7	-31.1	0	51	-	-	74	-23	-	-	339	270	V
* 3.857	45	AD1	33.7	-31.1	.33	47.93	54	-6.07	-	-	-	-	339	270	V

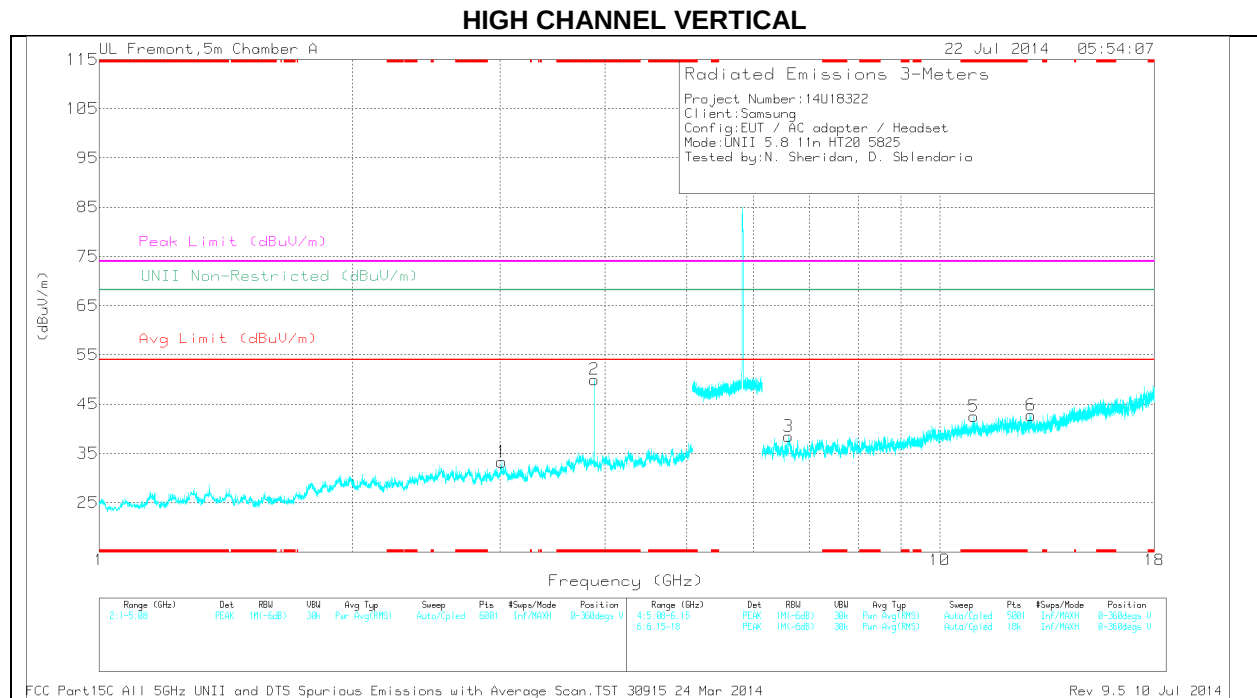
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average



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.

HIGH CHANNEL DATA

TRACE MARKERS

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
2	* 3.883	47.7	PK	33.8	-31.5	0	50	-	-	74	-24	-	-	0-360	100	V
5	* 10.988	26.73	PK	37.7	-21.9	0	42.53	-	-	74	-31.47	-	-	0-360	201	V
1	3.013	31.78	PK	32.8	-31.3	0	33.28	-	-	-	-	68.2	-34.92	0-360	100	V
3	6.608	28.67	PK	35.5	-25.7	0	38.47	-	-	-	-	68.2	-29.73	0-360	100	V
4	7.247	28.74	PK	35.2	-25.4	0	38.54	-	-	-	-	68.2	-29.66	0-360	201	H
6	12.846	26.13	PK	39	-22.4	0	42.73	-	-	-	-	68.2	-25.47	0-360	100	V

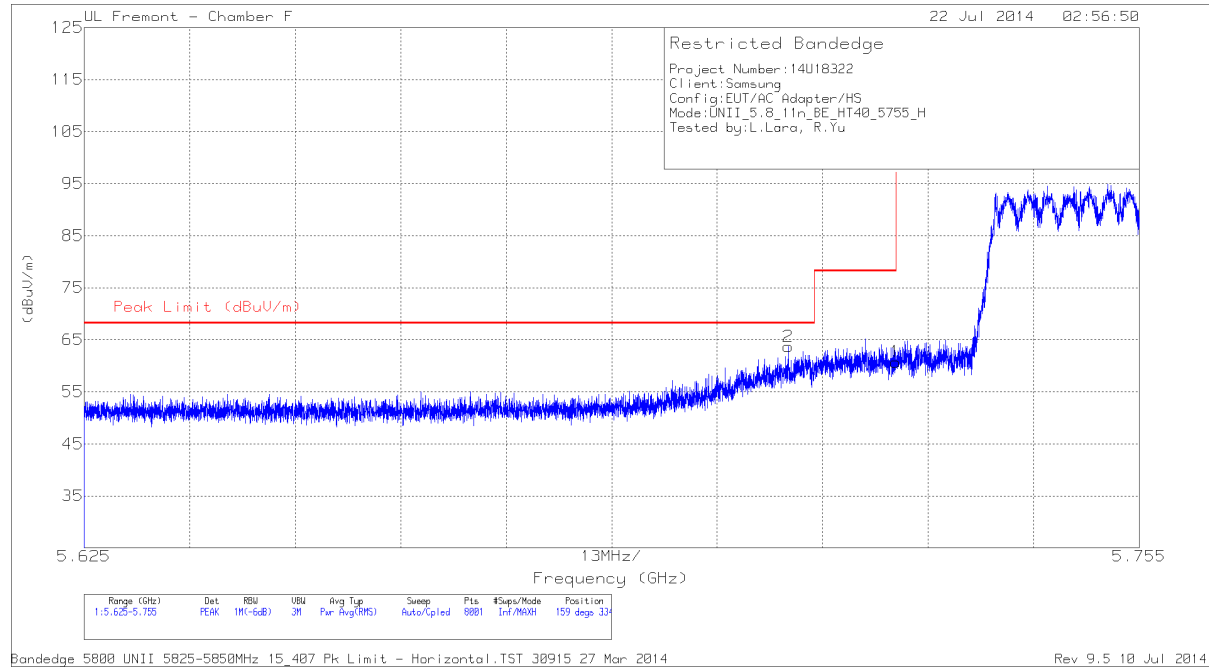
PK - Peak detector

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
* 3.884	50.03	PK1	33.8	-31.5	0	52.33	-	-	74	-21.67	-	-	125	308	V
* 3.883	48.44	AD1	33.8	-31.5	.33	51.07	54	-2.93	-	-	-	-	125	308	V
* 3.883	50.17	PK1	33.8	-31.5	0	52.47	-	-	74	-21.53	-	-	125	305	V
* 3.883	47.84	AD1	33.8	-31.5	.33	50.47	54	-3.53	-	-	-	-	125	305	V

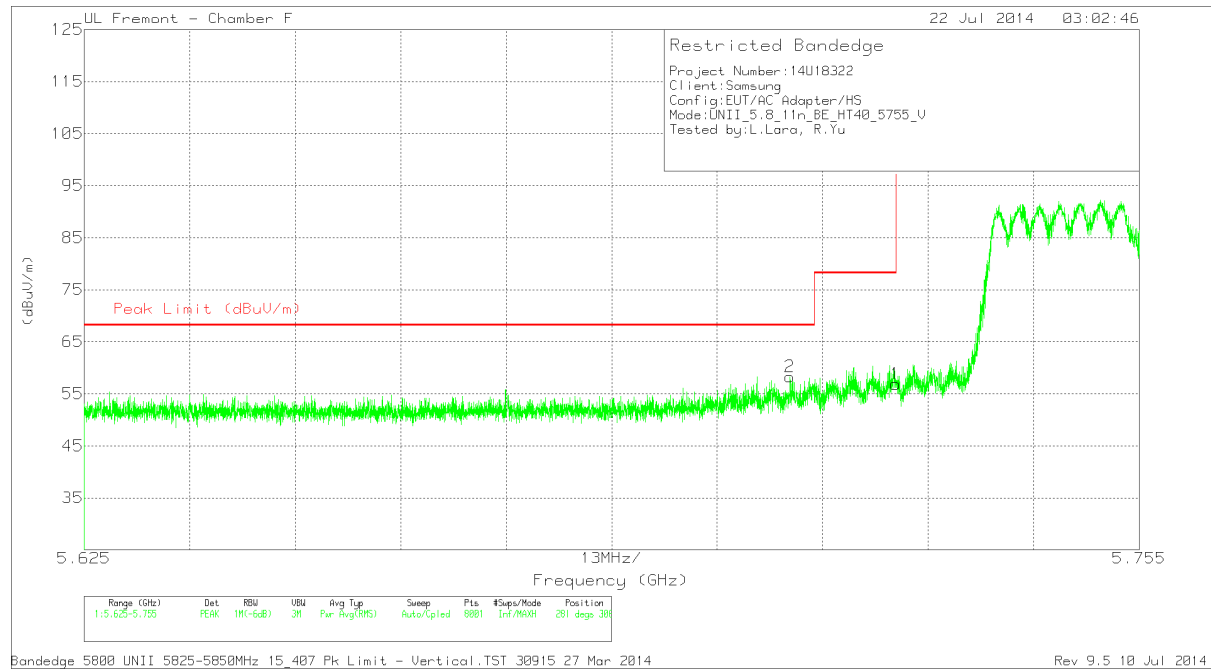
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

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



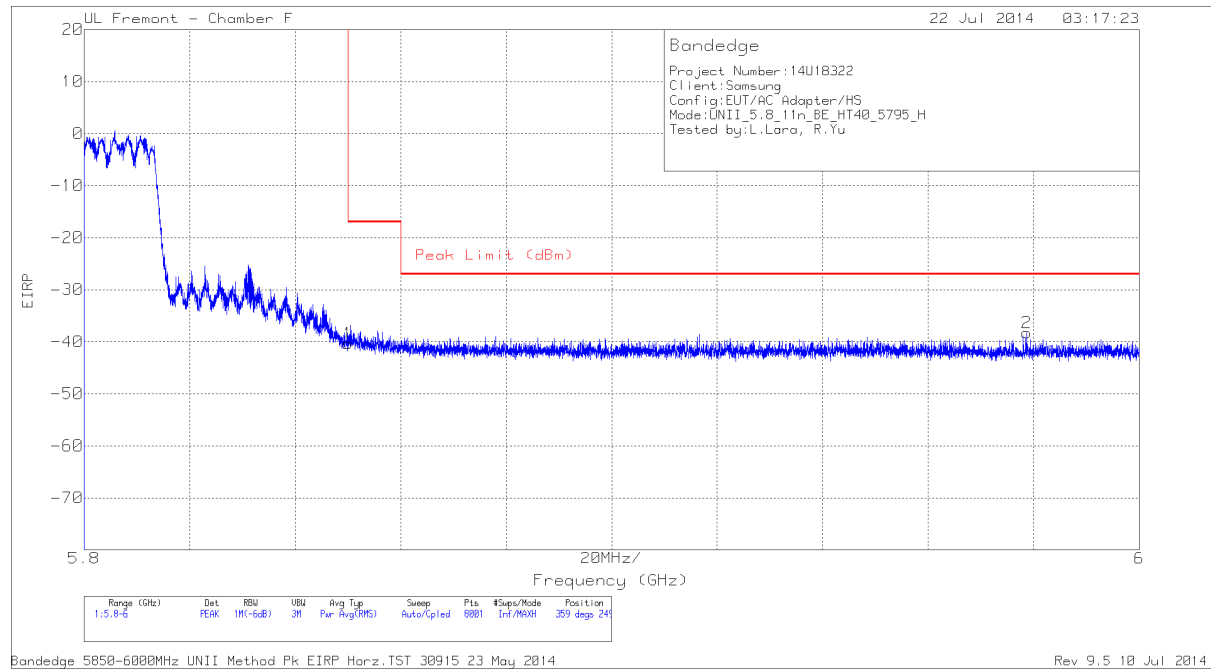
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	45.04	PK	34.8	-19.1	0	60.74	78.2	-17.46	159	334	H
2	5.712	48	PK	34.8	-19.1	0	63.7	68.2	-4.5	159	334	H

PK - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	41.19	PK	34.8	-19.1	0	56.89	78.2	-21.31	281	306	V
2	5.712	42.58	PK	34.8	-19.1	0	58.28	68.2	-9.92	281	306	V

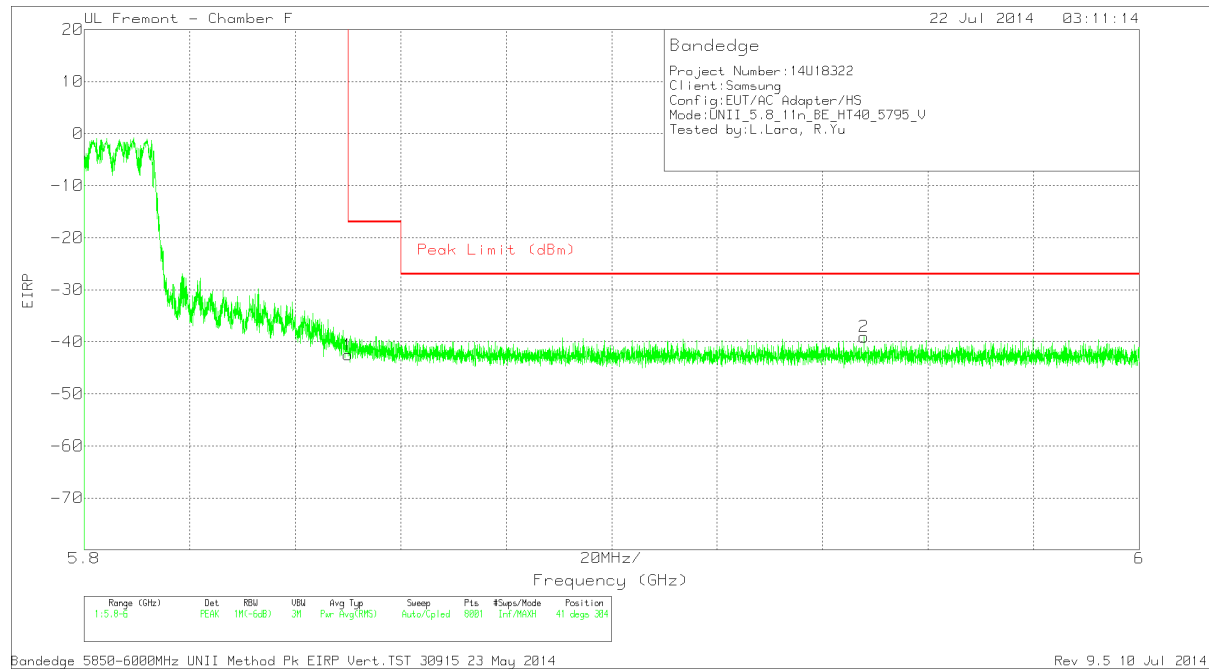
PK - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT120 (dB/m)	Amp/Cb/ Fltr/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	-68.12	PK	35	-19	11.8	0	-40.32	-27	-13.32	359	249	H
2	5.979	-66.67	PK	35.3	-18.7	11.8	0	-38.27	-27	-11.27	359	249	H

PK - Peak detector

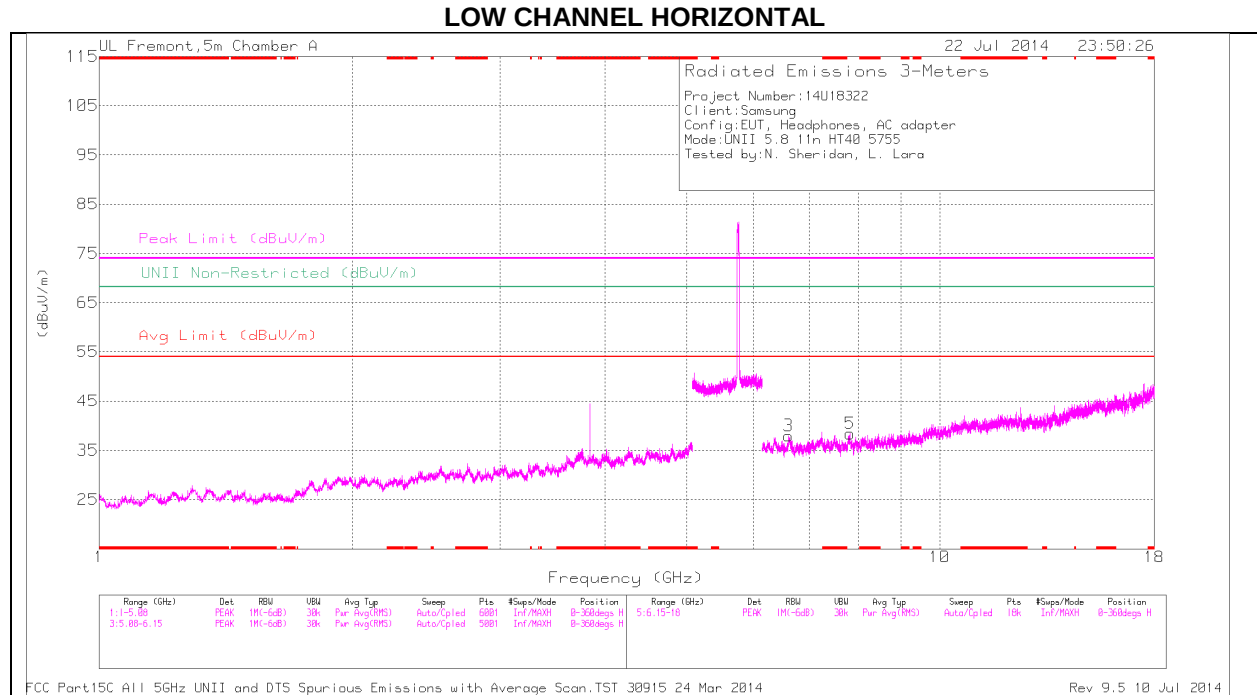
Note: Plot above is pre-scan data with inadequacy limit. Please refer to table for final data.



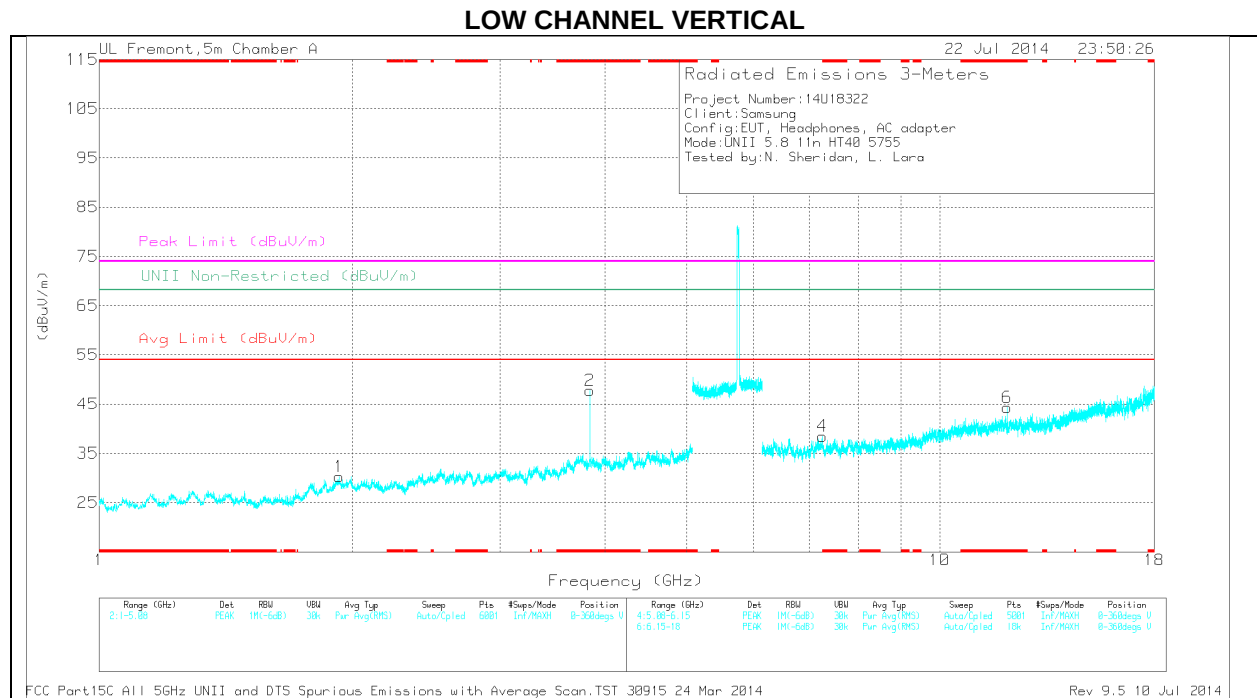
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT120 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-70.3	PK	35	-19	11.8	0	-42.5	-27	-15.5	41	304	V
2	5.948	-67.25	PK	35.2	-18.8	11.8	0	-39.05	-27	-12.05	41	304	V

PK - Peak detector

Note: Plot above is pre-scan data with inadequacy limit. Please refer to table for final data.



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

Trace Markers

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
2	* 3.837	44.95	PK	33.7	-30.9	0	47.75	-	-	74	-26.25	-	-	0-360	100	V
4	* 7.253	28.97	PK	35.2	-25.7	0	38.47	-	-	74	-35.53	-	-	0-360	100	V
6	* 12.029	26.99	PK	38.9	-21.6	0	44.29	-	-	74	-29.71	-	-	0-360	201	V
1	1.93	33.05	PK	31.8	-34.6	0	30.25	-	-	-	-	68.2	-37.95	0-360	201	V
3	6.613	28.06	PK	35.5	-25.6	0	37.96	-	-	-	-	68.2	-30.24	0-360	100	H
5	7.827	27.8	PK	35.5	-24.9	0	38.4	-	-	-	-	68.2	-29.8	0-360	201	H

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

PK - Peak detector

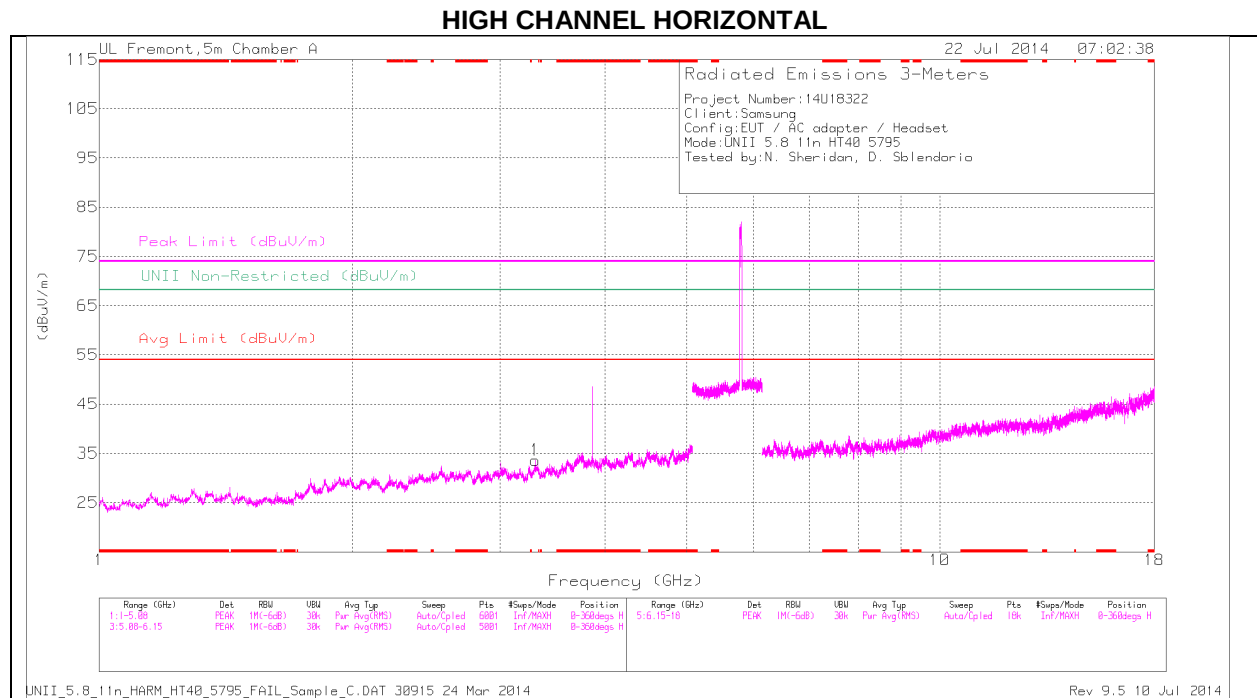
Radiated Emissions

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
* 3.837	48.2	PK1	33.7	-30.9	0	51	-	-	74	-23	-	-	35	271	V
* 3.837	45.59	AD1	33.7	-30.9	.61	49	54	-5	-	-	-	-	35	271	V

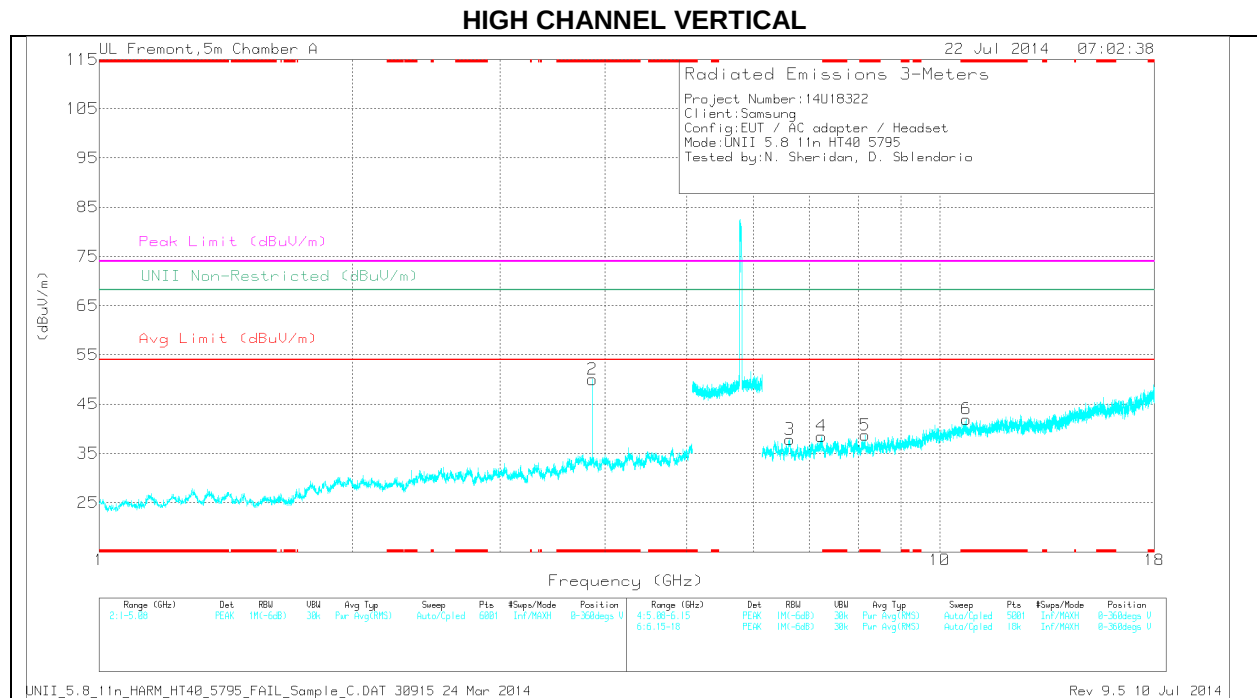
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average



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.

HIGH CHANNEL DATA

TRACE MARKERS

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
2	* 3.863	47.12	PK	33.7	-30.8	0	50.02	-	-	74	-23.98	-	-	0-360	100	V
5	* 8.151	28.7	PK	35.5	-25.5	0	38.7	-	-	74	-35.3	-	-	0-360	100	V
6	* 10.751	26.65	PK	37.9	-22.6	0	41.95	-	-	74	-32.05	-	-	0-360	100	V
1	3.305	31.61	PK	32.9	-30.9	0	33.61	-	-	-	-	68.2	-34.59	0-360	100	H
3	6.632	28.23	PK	35.4	-25.8	0	37.83	-	-	-	-	68.2	-30.37	0-360	201	V
4	7.234	28.41	PK	35.2	-25.1	0	38.51	-	-	-	-	68.2	-29.69	0-360	201	V

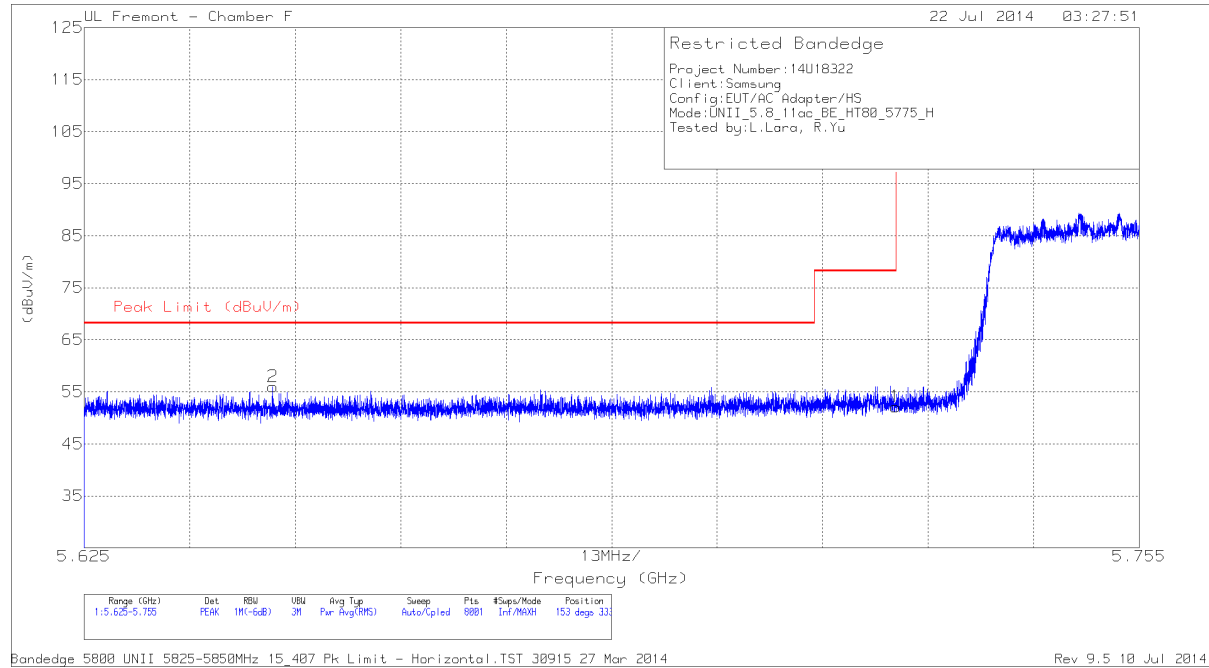
PK - Peak detector

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
* 3.863	50.12	PK1	33.7	-30.8	0	53.02	-	-	74	-20.98	-	-	129	303	V
* 3.863	48.48	AD1	33.7	-30.8	.61	51.99	54	-2.01	-	-	-	-	129	303	V

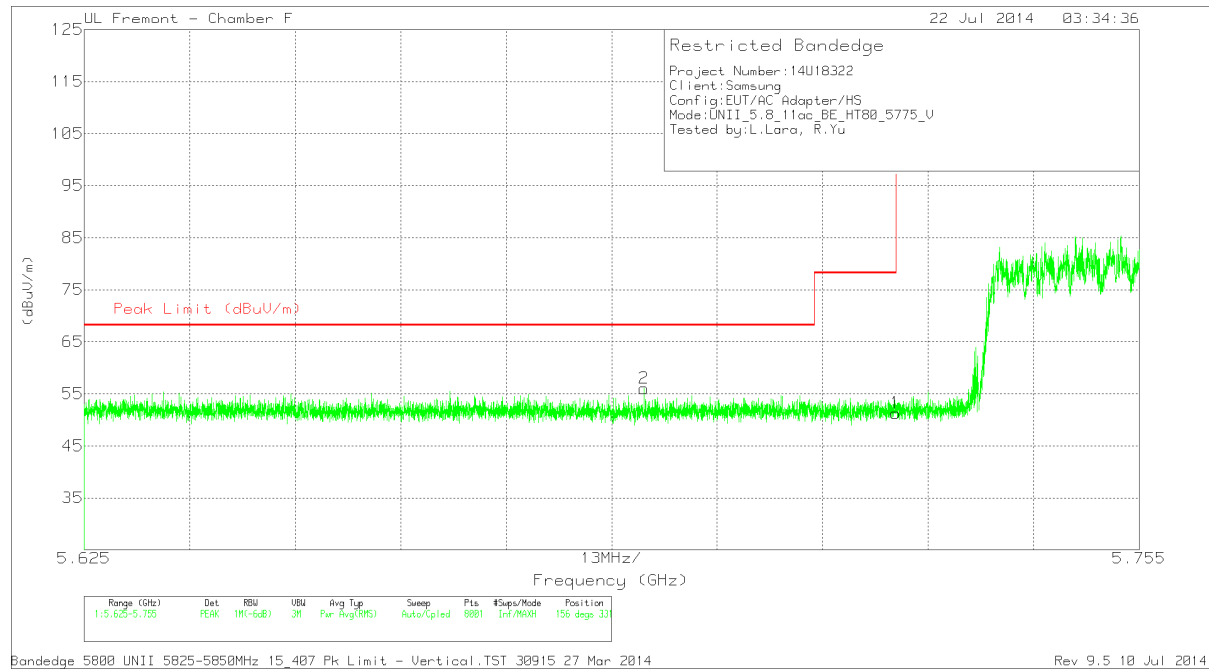
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

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



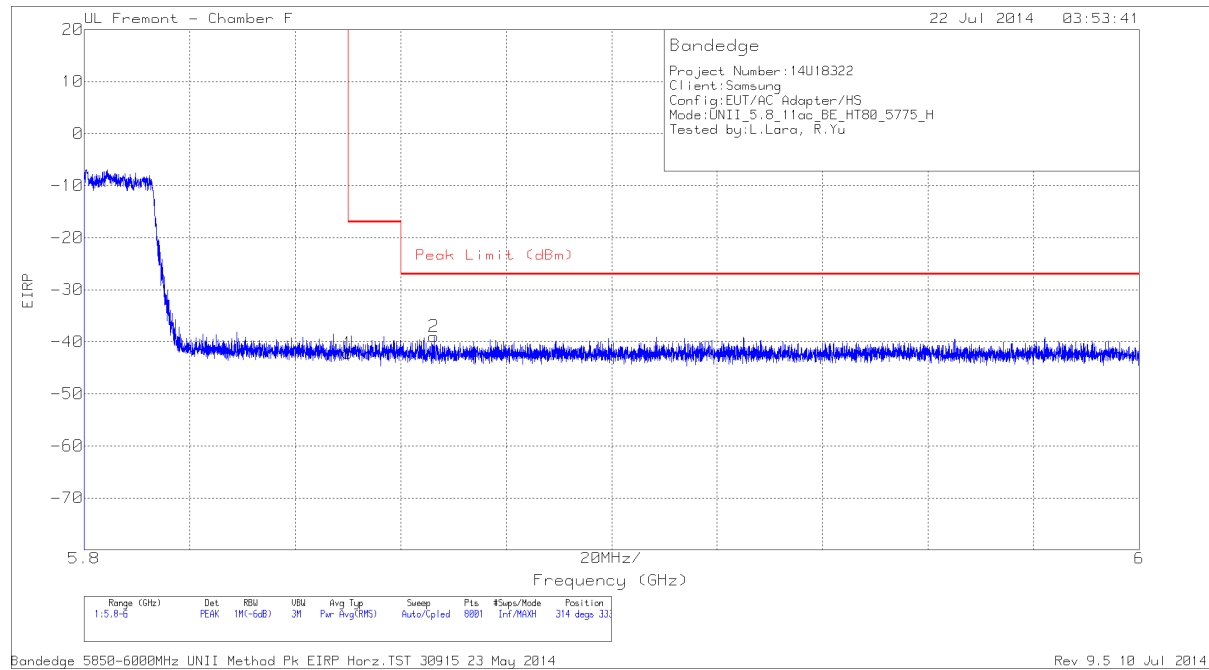
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	36.43	PK	34.8	-19.1	0	52.13	78.2	-26.07	153	333	H
2	5.648	40.59	PK	34.7	-19.3	0	55.99	68.2	-12.21	153	333	H

PK - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	35.6	PK	34.8	-19.1	0	51.3	78.2	-26.9	156	331	V
2	5.694	40.55	PK	34.8	-19.3	0	56.05	68.2	-12.15	156	331	V

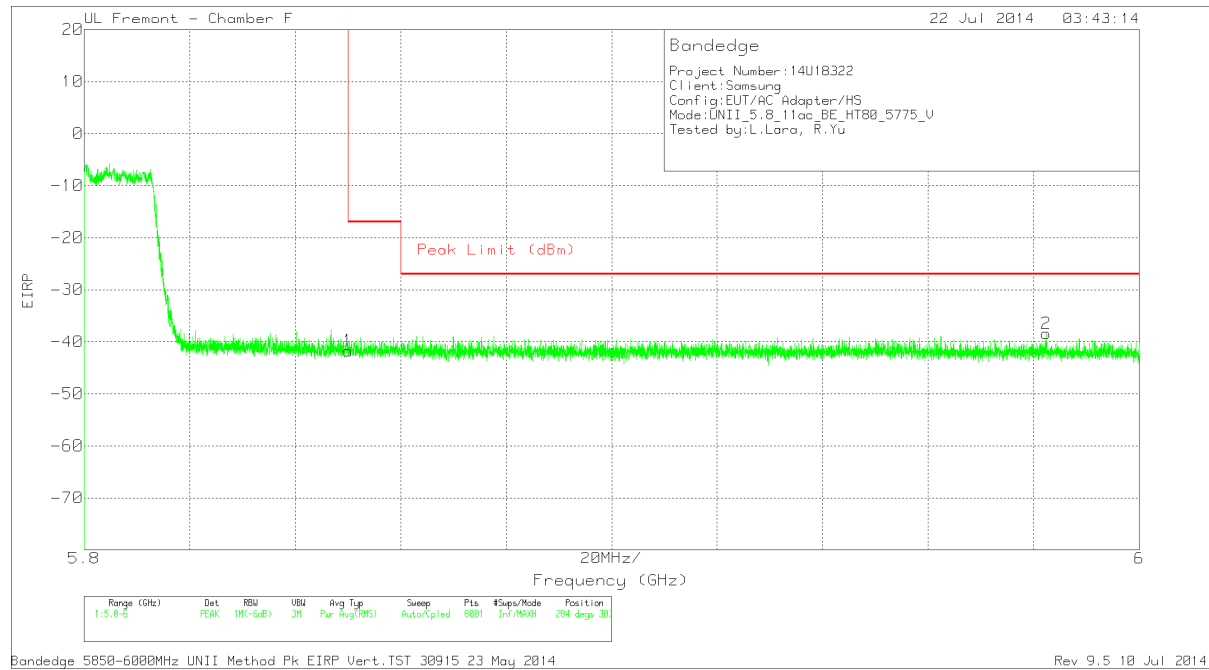
PK - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT120 (dB/m)	Amp/Cbl/ Fitr/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	-69.98	PK	35	-19	11.8	0	-42.18	-27	-15.18	314	333	H
2	5.866	-66.68	PK	35.1	-19.2	11.8	0	-38.98	-27	-11.98	314	333	H

PK - Peak detector

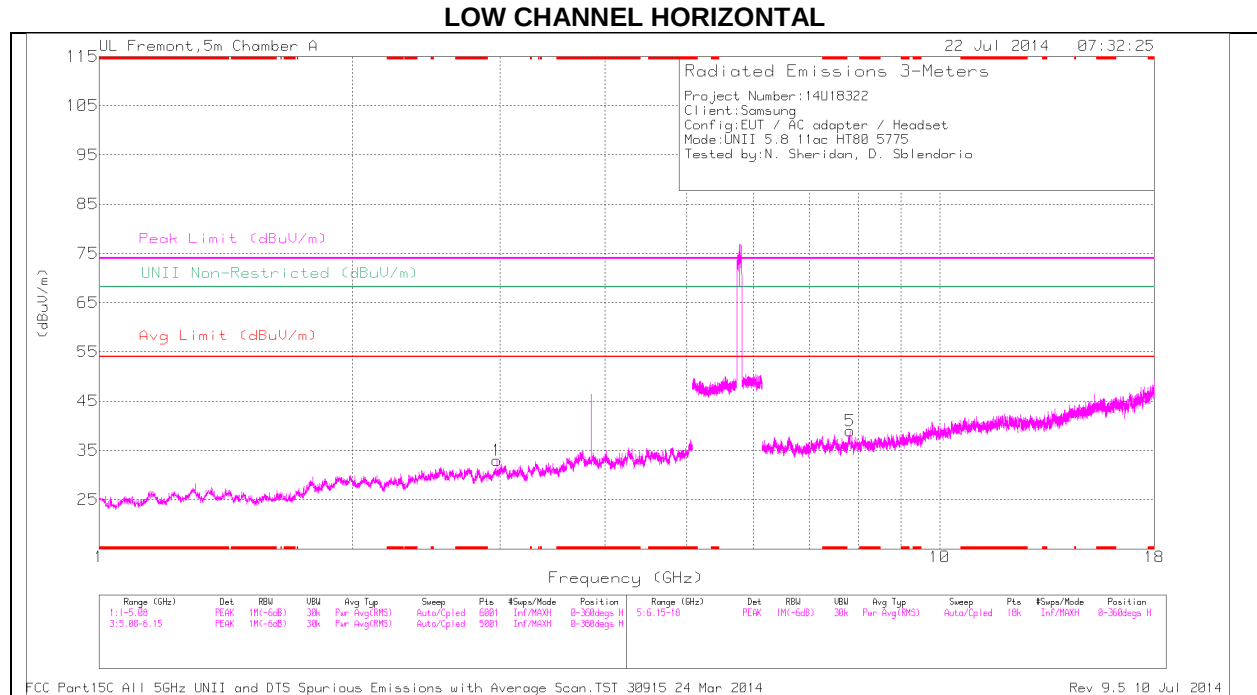
Note: Plot above is pre-scan data with inadequacy limit. Please refer to table for final data.



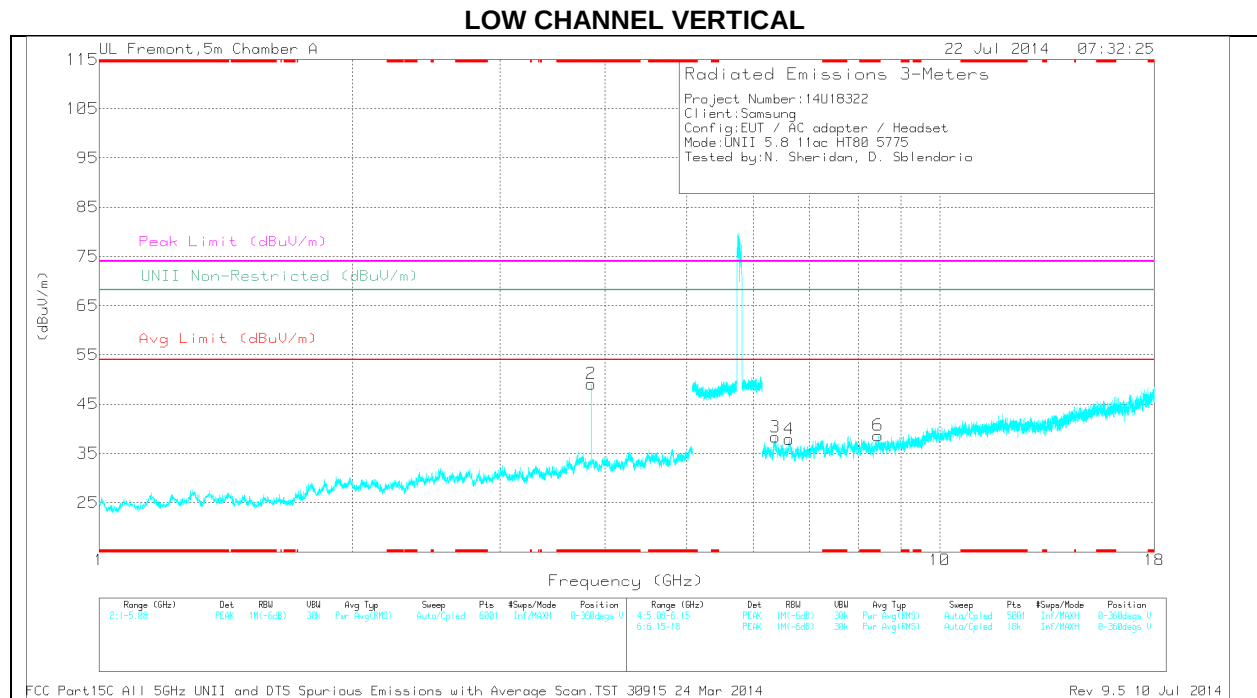
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT120 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-69.54	PK	35	-19	11.8	0	-41.74	-27	-14.74	284	303	V
2	5.982	-66.79	PK	35.3	-18.7	11.8	0	-38.39	-27	-11.39	284	303	V

PK - Peak detector

Note: Plot above is pre-scan data with inadequacy limit. Please refer to table for final data.



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

TRACE MARKERS

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
2	* 3.85	46.92	PK	33.7	-31.5	0	49.12	-	-	74	-24.88	-	-	0-360	201	V
6	* 8.447	28.54	PK	35.7	-25.6	0	38.64	-	-	74	-35.36	-	-	0-360	100	V
1	2.972	32.65	PK	32.7	-32.4	0	32.95	-	-	-	-	68.2	-35.25	0-360	100	H
3	6.373	30.2	PK	35.5	-27.4	0	38.3	-	-	-	-	68.2	-29.9	0-360	100	V
4	6.619	28.19	PK	35.5	-25.8	0	37.89	-	-	-	-	68.2	-30.31	0-360	100	V
5	7.821	27.72	PK	35.5	-24.3	0	38.92	-	-	-	-	68.2	-29.28	0-360	100	H

PK - Peak detector

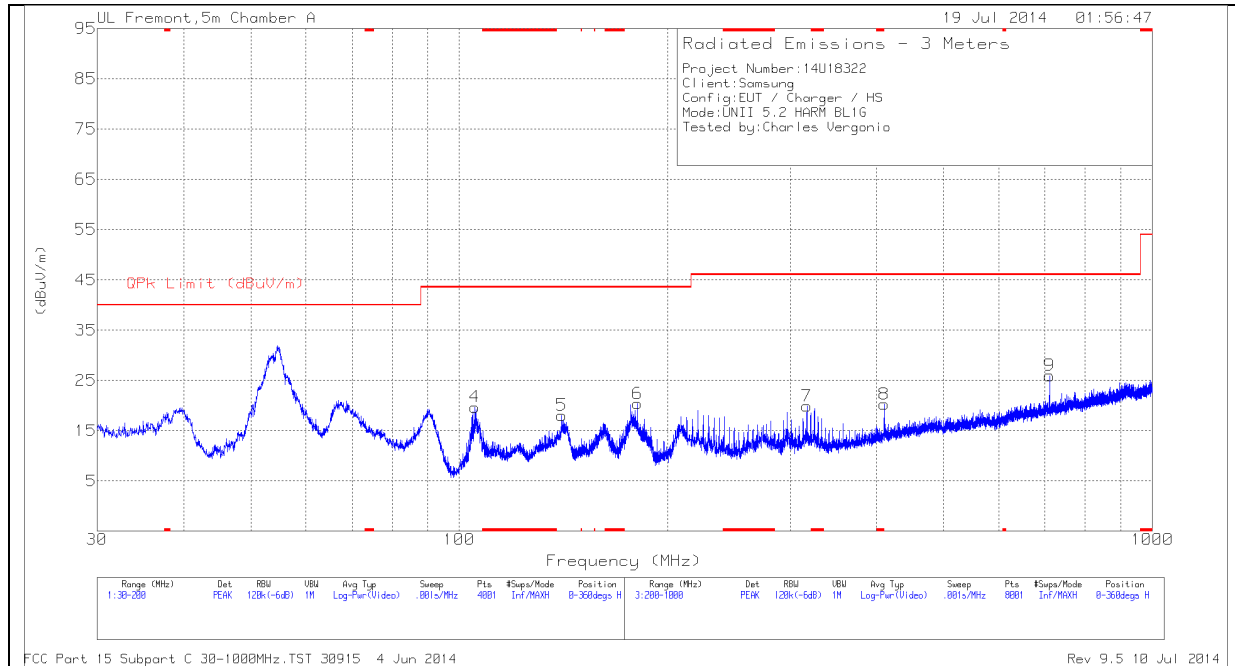
RADIATED EMISSIONS

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
* 3.85	49.04	PK1	33.7	-31.5	0	51.24	-	-	74	-22.76	-	-	130	301	V
* 3.85	47.93	AD1	33.7	-31.5	1.84	51.97	54	-2.03	-	-	-	-	130	301	V

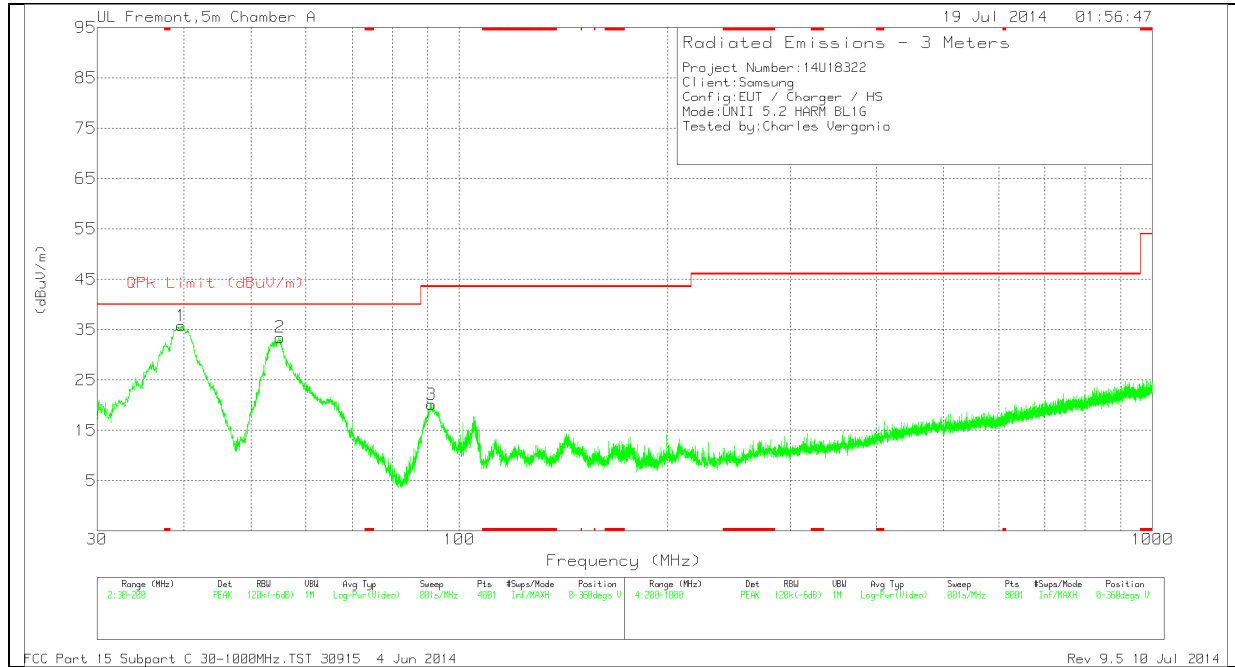
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

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

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	AF T130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	39.69	52.26	PK	14.5	-31	35.76	40	-4.24	0-360	101	V
2	55.1175	56.85	PK	7.3	-30.7	33.45	40	-6.55	0-360	101	V
3	91.0725	42.73	PK	7.9	-30.5	20.13	43.52	-23.39	0-360	101	V
4	105.3525	38.51	PK	11.7	-30.5	19.71	43.52	-23.81	0-360	300	H
5	140.5425	35.07	PK	13.2	-30.2	18.07	43.52	-25.45	0-360	200	H
6	180.79	39	PK	11.3	-29.9	20.4	43.52	-23.12	0-360	200	H
7	317.4	35.21	PK	13.9	-29.2	19.91	46.02	-26.11	0-360	101	H
8	410.3	33.09	PK	16	-28.8	20.29	46.02	-25.73	0-360	101	H
9	710.7	33.87	PK	20.3	-28.2	25.97	46.02	-20.05	0-360	400	H

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.

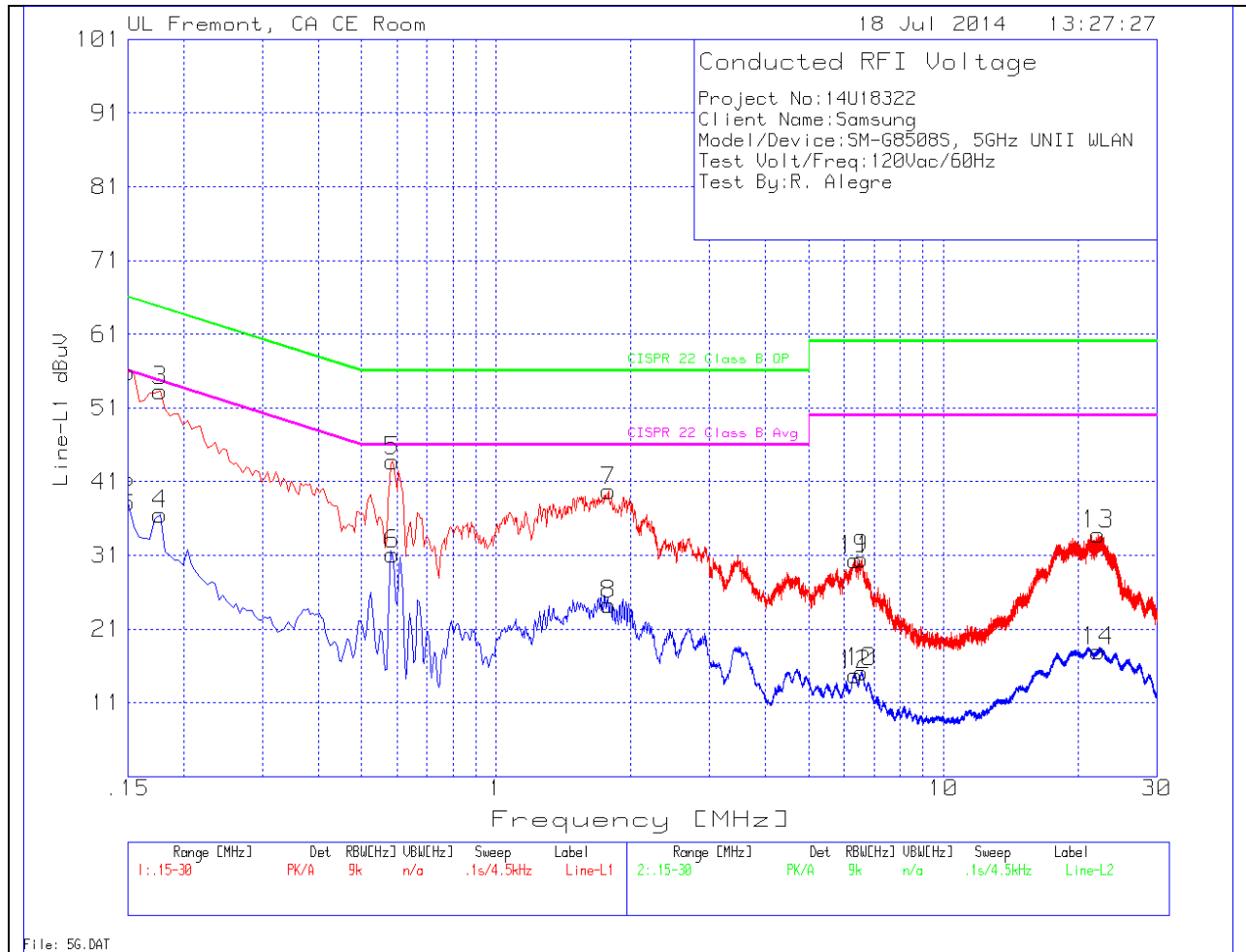
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT



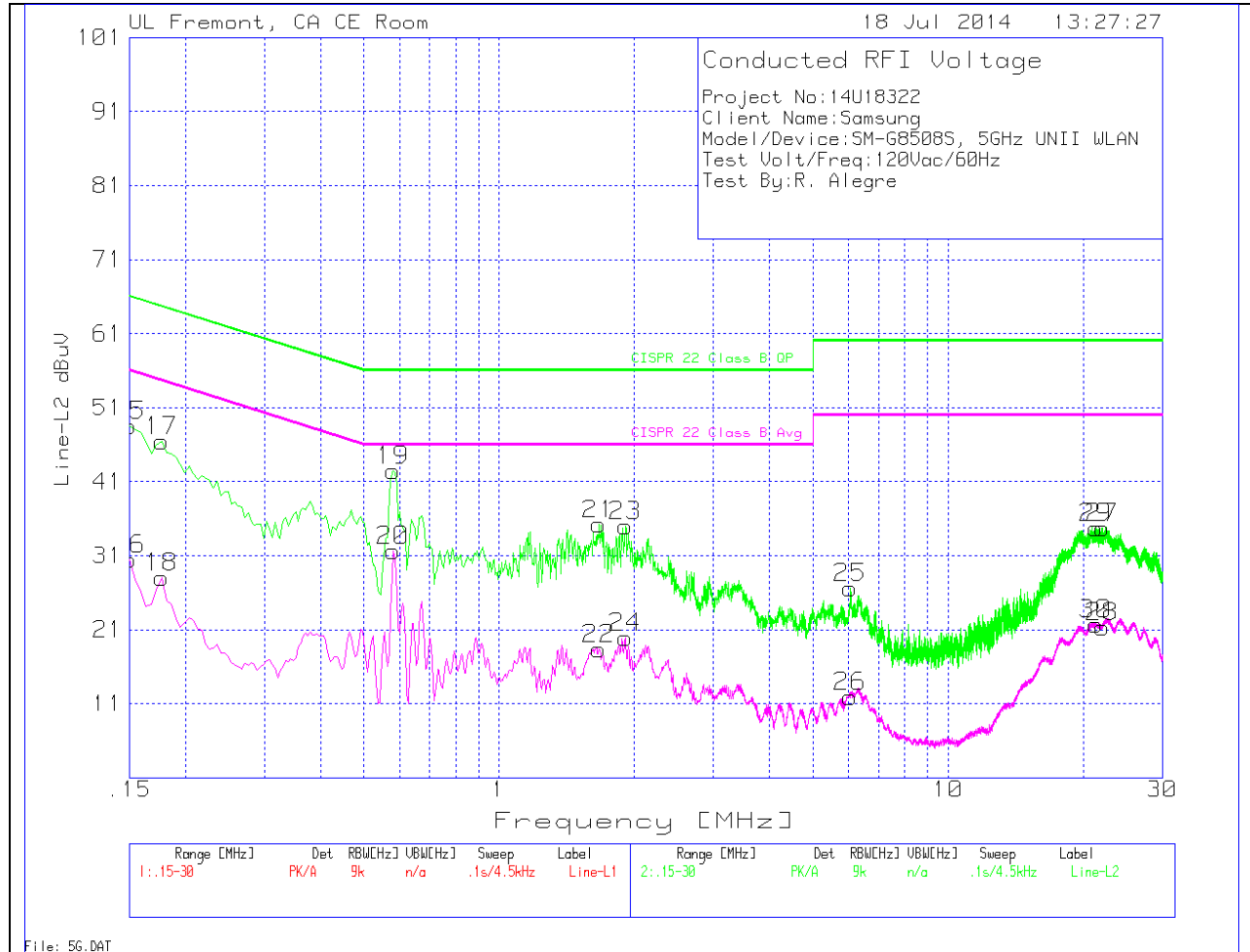
LINE 1 RESULTS

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	.15	54.52	PK	1.4	0	55.92	66	-10.08	-	-
2	.15	36.78	Av	1.4	0	38.18	-	-	56	-17.82
3	.177	52.14	PK	1.1	0	53.24	64.6	-11.36	-	-
4	.177	35.41	Av	1.1	0	36.51	-	-	54.6	-18.09
5	.5865	43.46	PK	.3	0	43.76	56	-12.24	-	-
6	.5865	30.84	Av	.3	0	31.14	-	-	46	-14.86
7	1.7835	39.4	PK	.2	.1	39.7	56	-16.3	-	-
8	1.7835	23.95	Av	.2	.1	24.25	-	-	46	-21.75
11	6.36	30.07	PK	.2	.1	30.37	60	-29.63	-	-
12	6.36	14.42	Av	.2	.1	14.72	-	-	50	-35.28
9	6.558	30.15	PK	.2	.1	30.45	60	-29.55	-	-
10	6.558	14.81	Av	.2	.1	15.11	-	-	50	-34.89
13	22.218	33.29	PK	.3	.2	33.79	60	-26.21	-	-
14	22.218	17.5	Av	.3	.2	18	-	-	50	-32

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)
15	.15	47.08	PK	1.5	0	48.58	66	-17.42	-	-
16	.15	29	Av	1.5	0	30.5	-	-	56	-25.5
17	.177	45.24	PK	1.2	0	46.44	64.6	-18.16	-	-
18	.177	26.8	Av	1.2	0	28	-	-	54.6	-26.6
19	.582	42.18	PK	.3	0	42.48	56	-13.52	-	-
20	.582	31.3	Av	.3	0	31.6	-	-	46	-14.4
21	1.671	34.89	PK	.2	.1	35.19	56	-20.81	-	-
22	1.671	18.09	Av	.2	.1	18.39	-	-	46	-27.61
23	1.9095	34.68	PK	.2	.1	34.98	56	-21.02	-	-
24	1.9095	19.6	Av	.2	.1	19.9	-	-	46	-26.1
25	6.0405	26.37	PK	.2	.1	26.67	60	-33.33	-	-
26	6.0405	11.59	Av	.2	.1	11.89	-	-	50	-38.11
29	21.327	34.28	PK	.3	.2	34.78	60	-25.22	-	-
30	21.327	21.27	Av	.3	.2	21.77	-	-	50	-28.23
27	22.083	34.25	PK	.3	.2	34.75	60	-25.25	-	-
28	22.083	20.87	Av	.3	.2	21.37	-	-	50	-28.63

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

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

Requirement	Operational Mode		
	Master	Client (without radar detection)	Client (with radar detection)
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
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
The instant that the <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> begins is as follows: For the Short pulse radar Test Signals this instant is the end of the <i>Burst</i>. For the Frequency Hopping radar Test Signal, this instant is the end of the last radar burst generated. For the Long Pulse radar Test Signal this instant is the end of the 12-second period defining the radar transmission. The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate channel changes (an aggregate of approximately 60 milliseconds) during the remainder of the 10-second period. The aggregate duration of control signals will not count quiet periods in between transmissions.	

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (Microseconds)	PRI (Microseconds)	Pulses	Minimum Percentage of Successful Detection	Minimum Trials
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

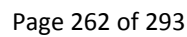
Table 6 – Long Pulse Radar Test Signal

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

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.

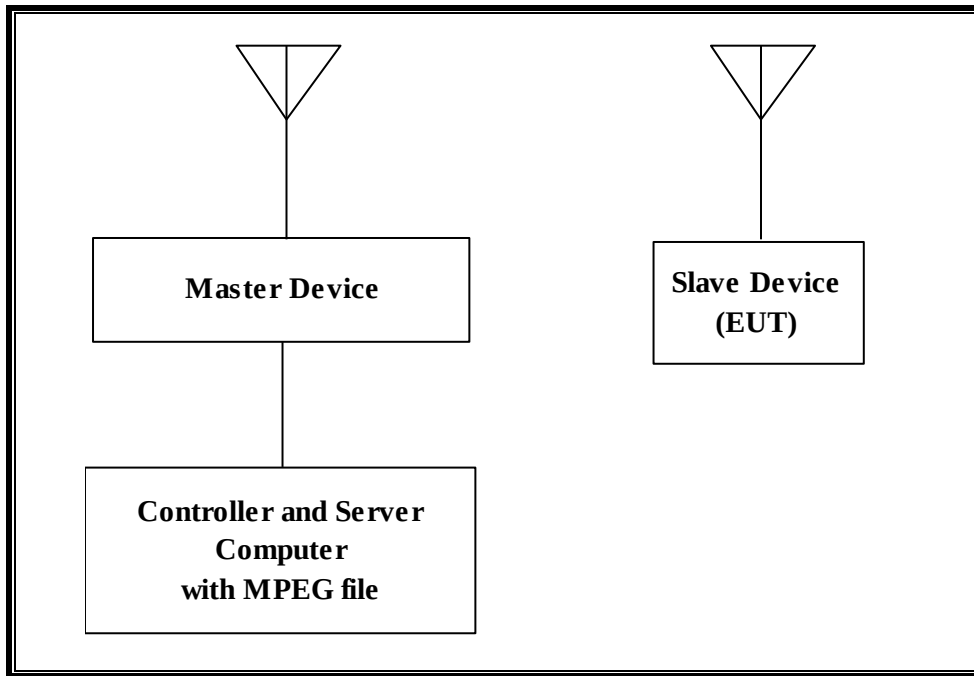
TEST AND MEASUREMENT EQUIPMENT

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 16.5 dBm EIRP in the 5250-5350 MHz band and 16.34 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 the MP4 Player version 1.7.21 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 12.4(25d)JA1.

UNIFORM CHANNEL SPREADING

This requirement is not applicable to Slave radio devices.

See Manufacturer's Attestation.

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.

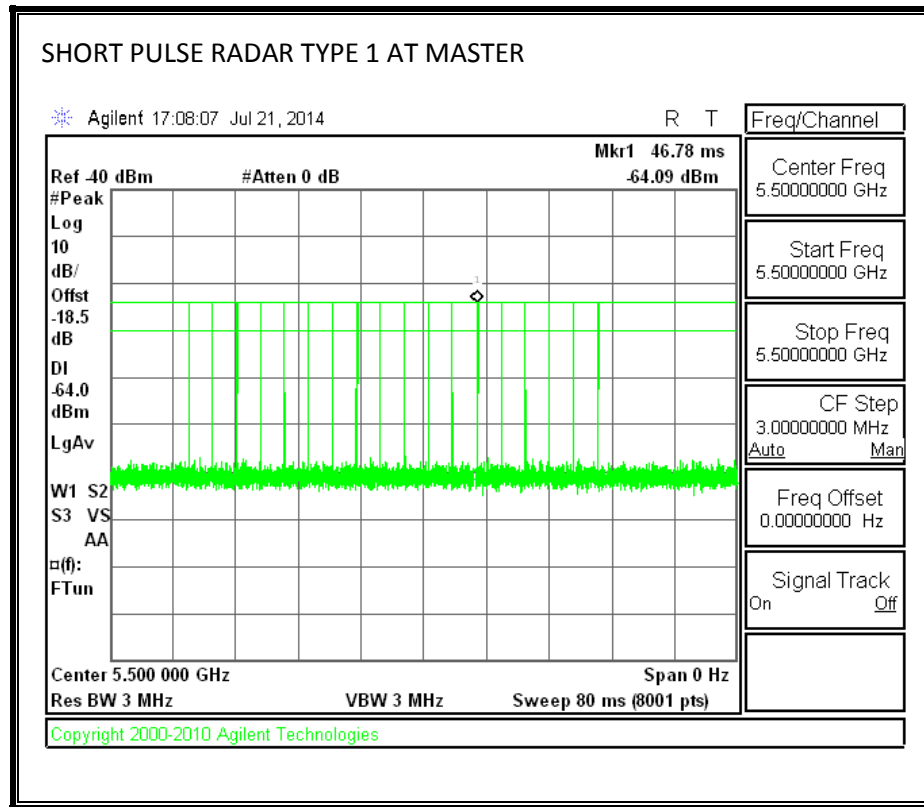
14.2. RESULTS FOR 20 MHz BANDWIDTH

14.2.1. TEST CHANNEL

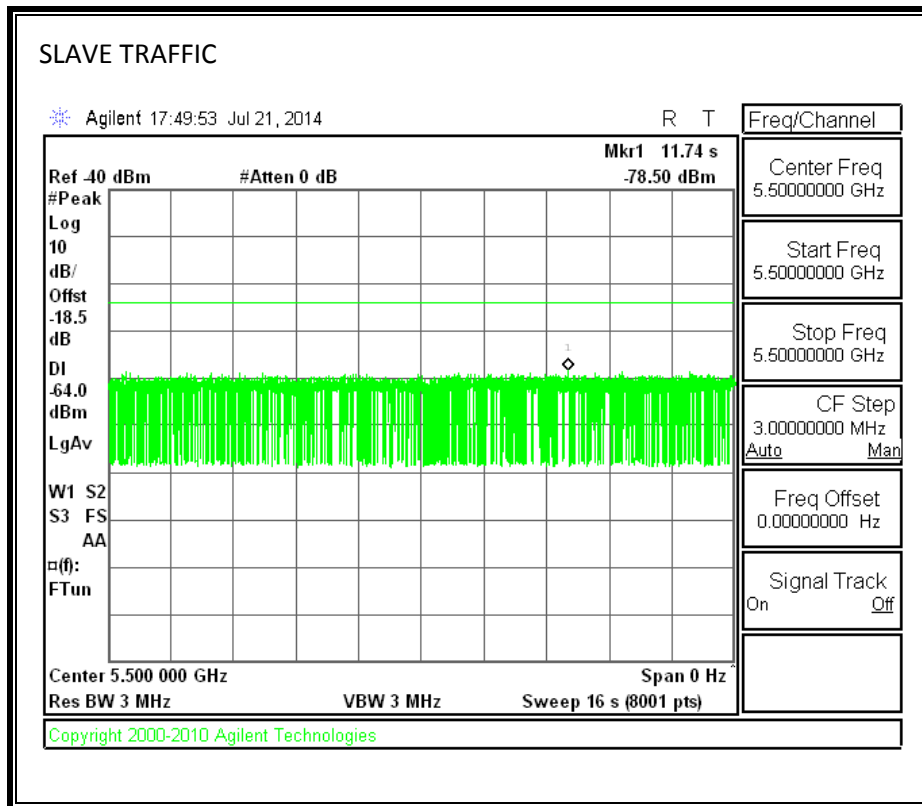
All tests were performed at a channel center frequency of 5500 MHz.

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)

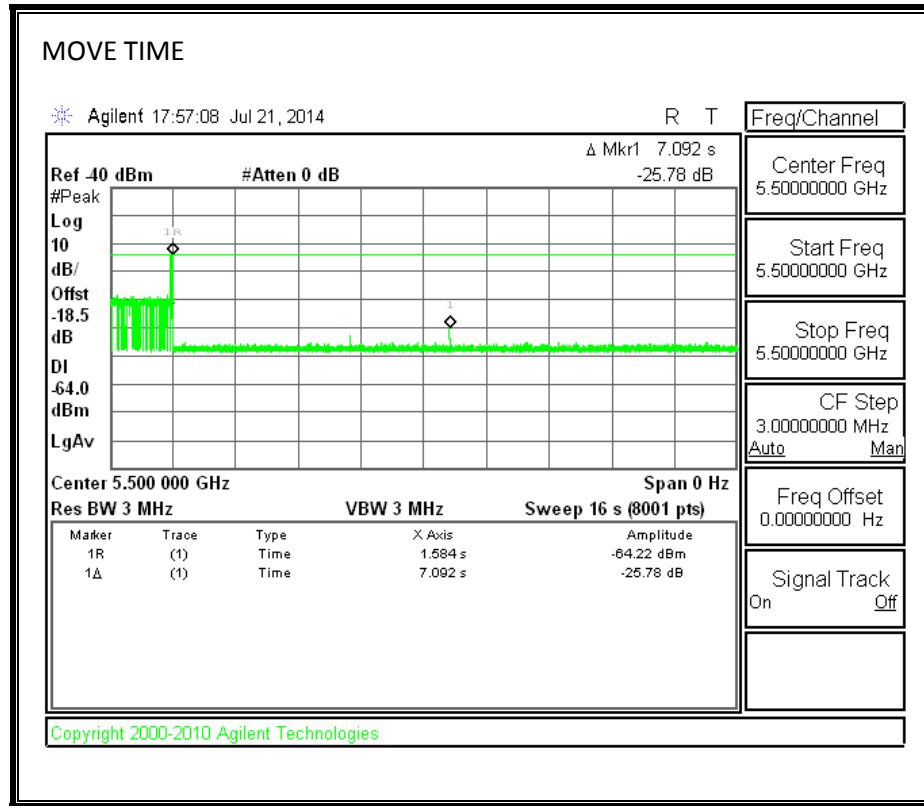
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

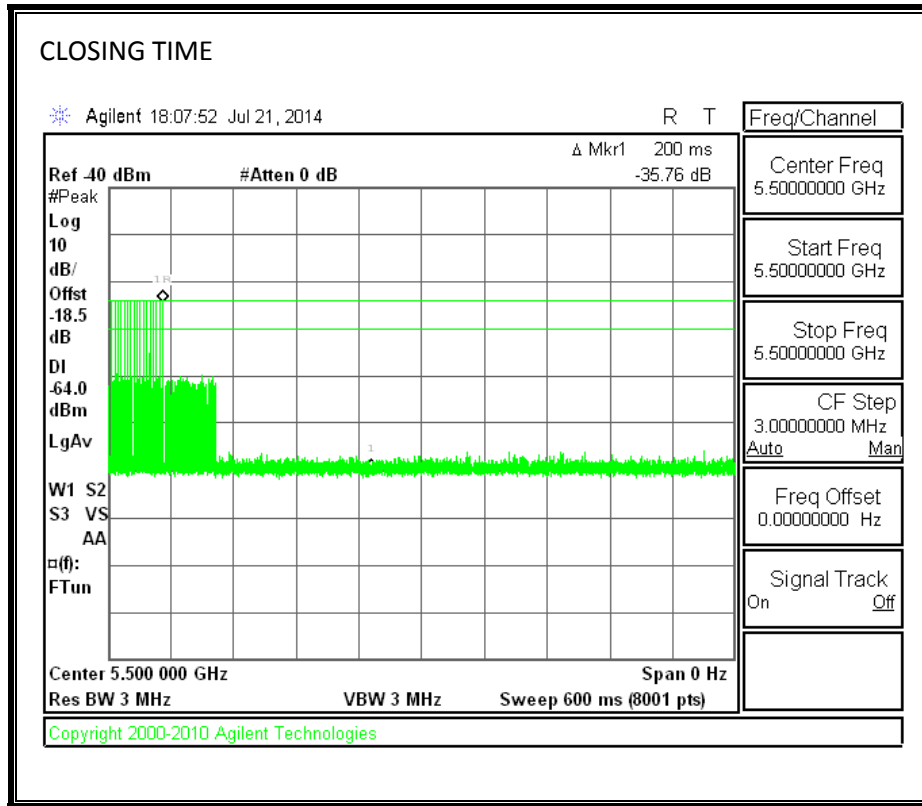
Channel Move Time (sec)	Limit (sec)
7.092	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
4.0	60

MOVE TIME

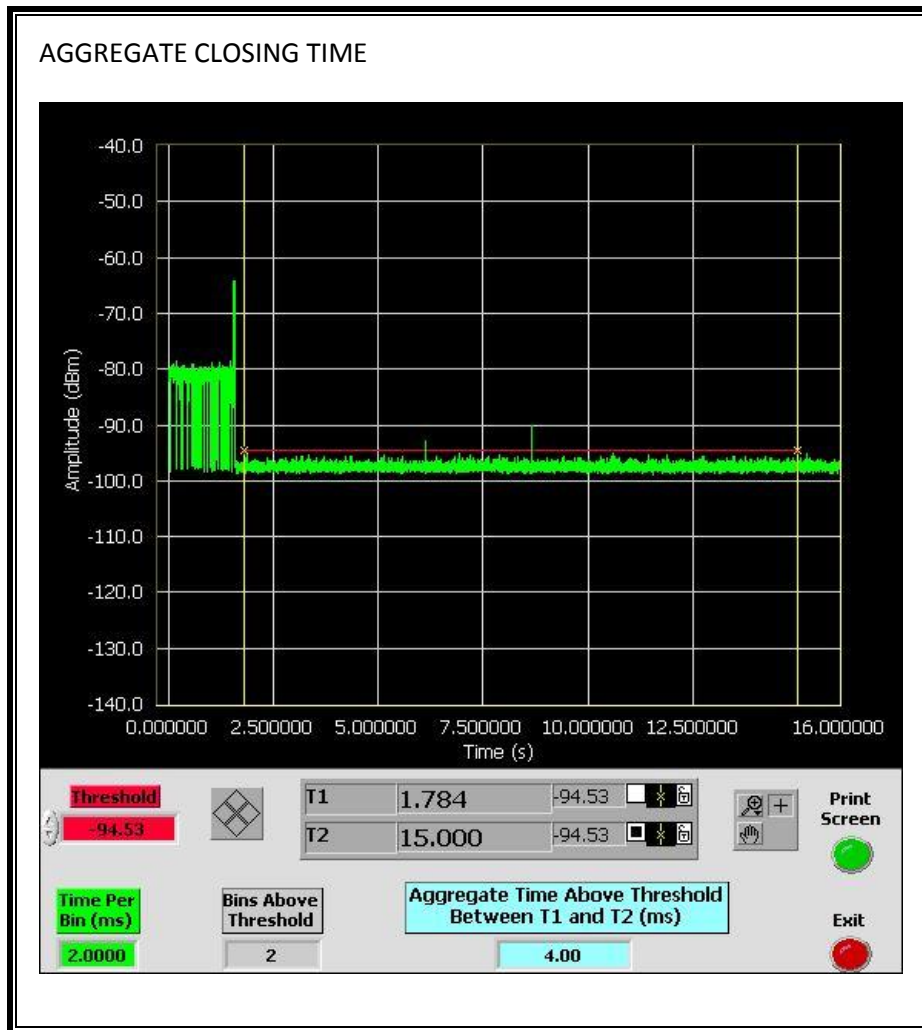


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.



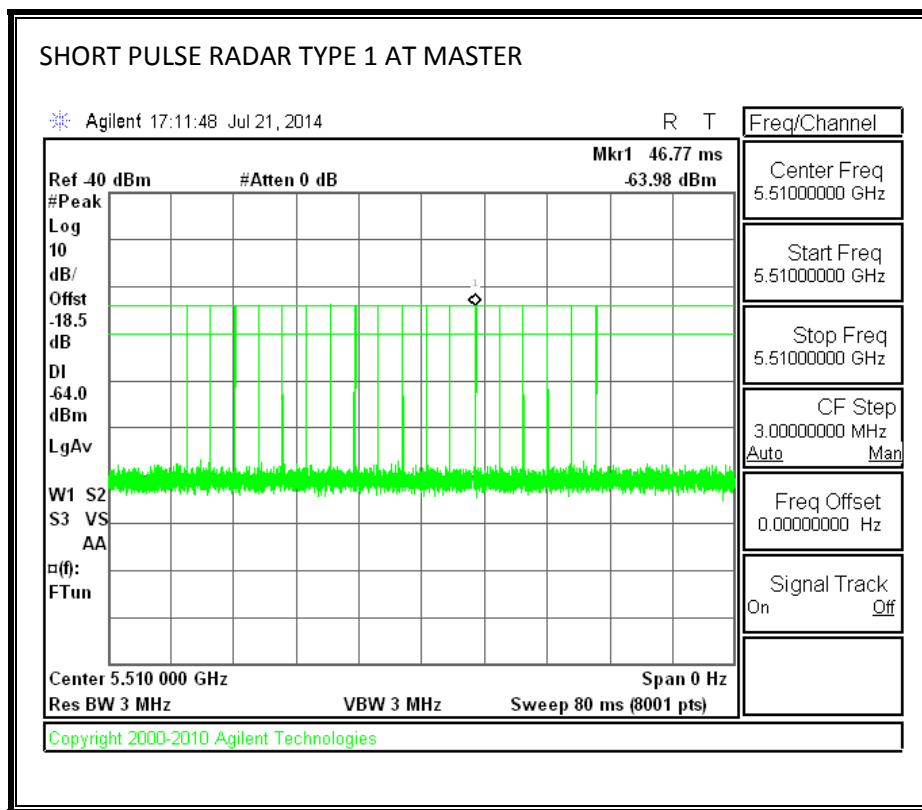
14.3. RESULTS FOR 40 MHz BANDWIDTH

14.3.1. TEST CHANNEL

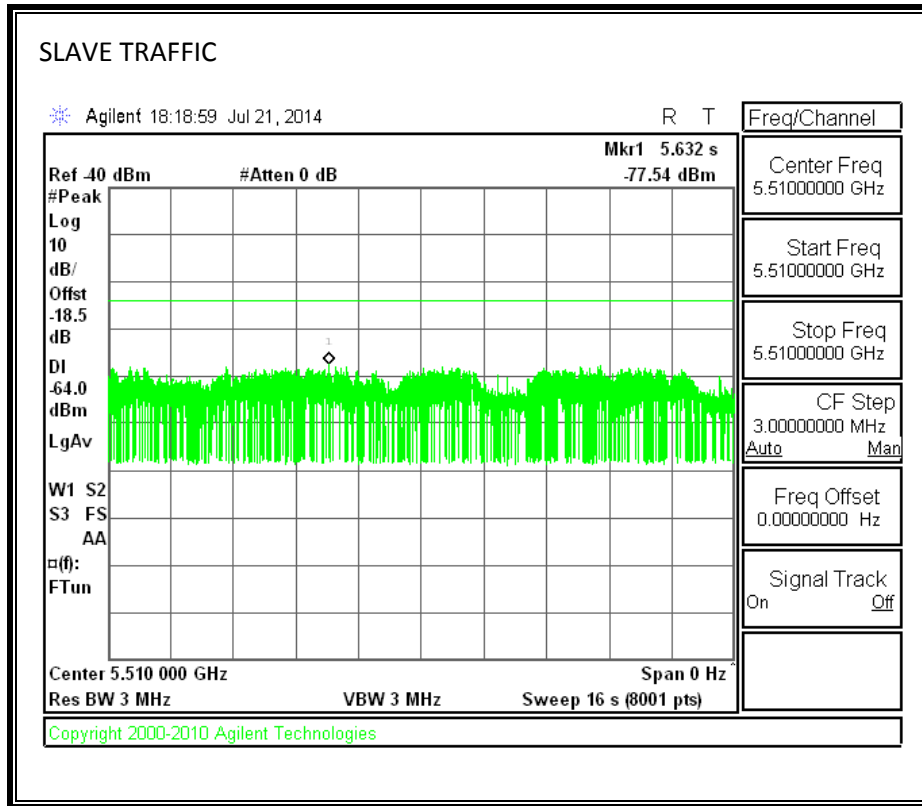
All tests were performed at a channel center frequency of 5510 MHz.

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)

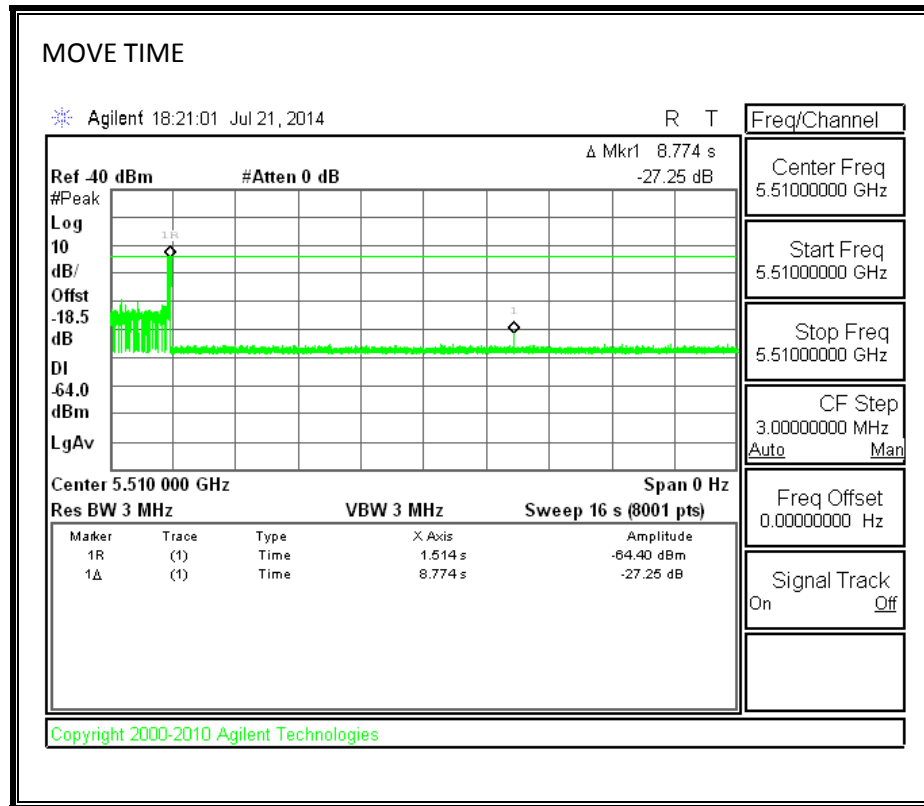
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

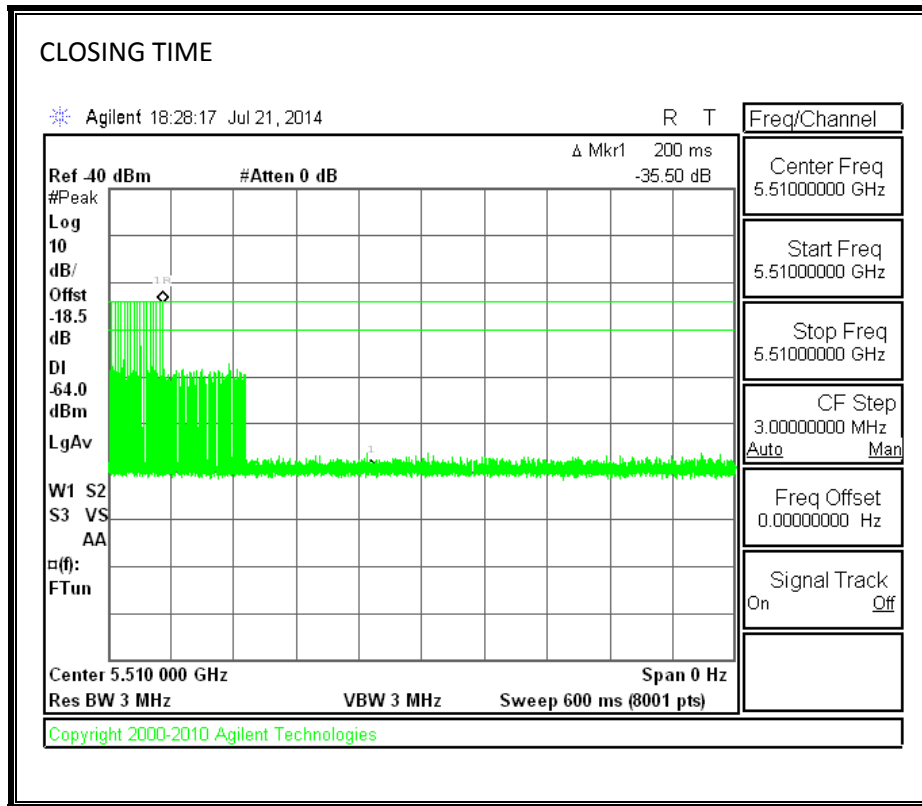
Channel Move Time (sec)	Limit (sec)
8.774	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
2.0	60

MOVE TIME

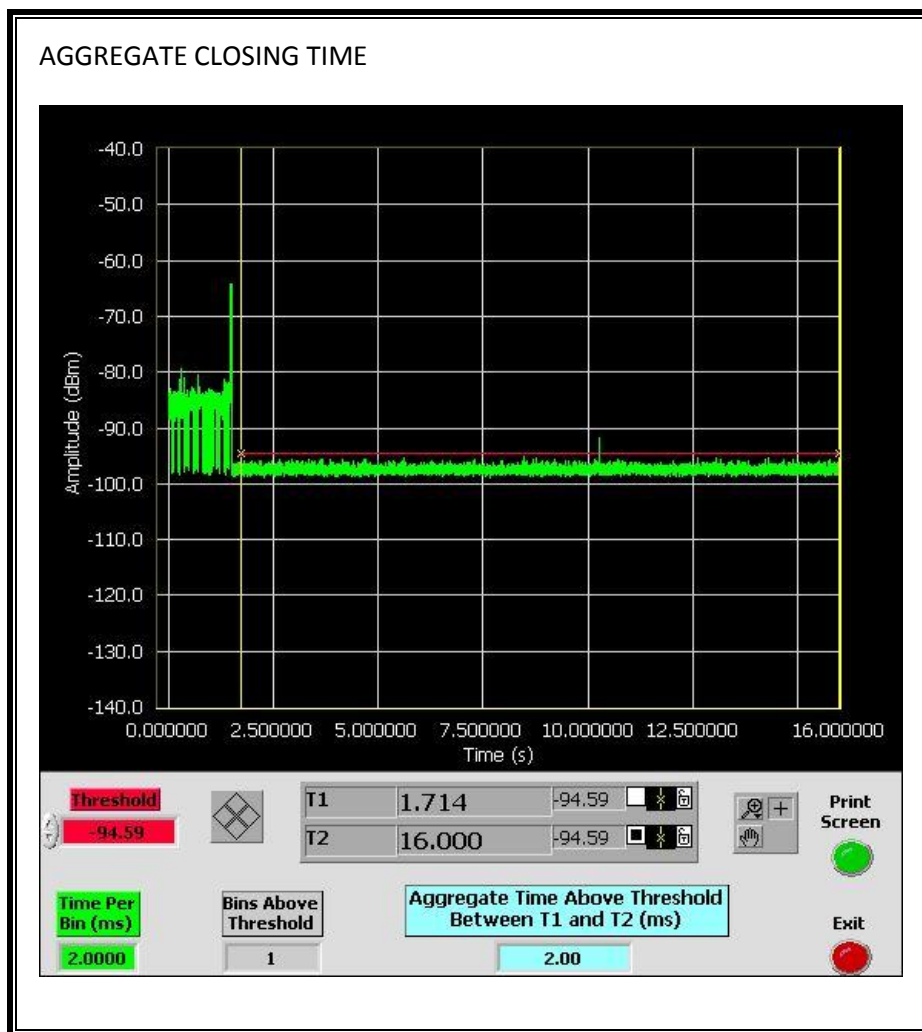


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent 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.

