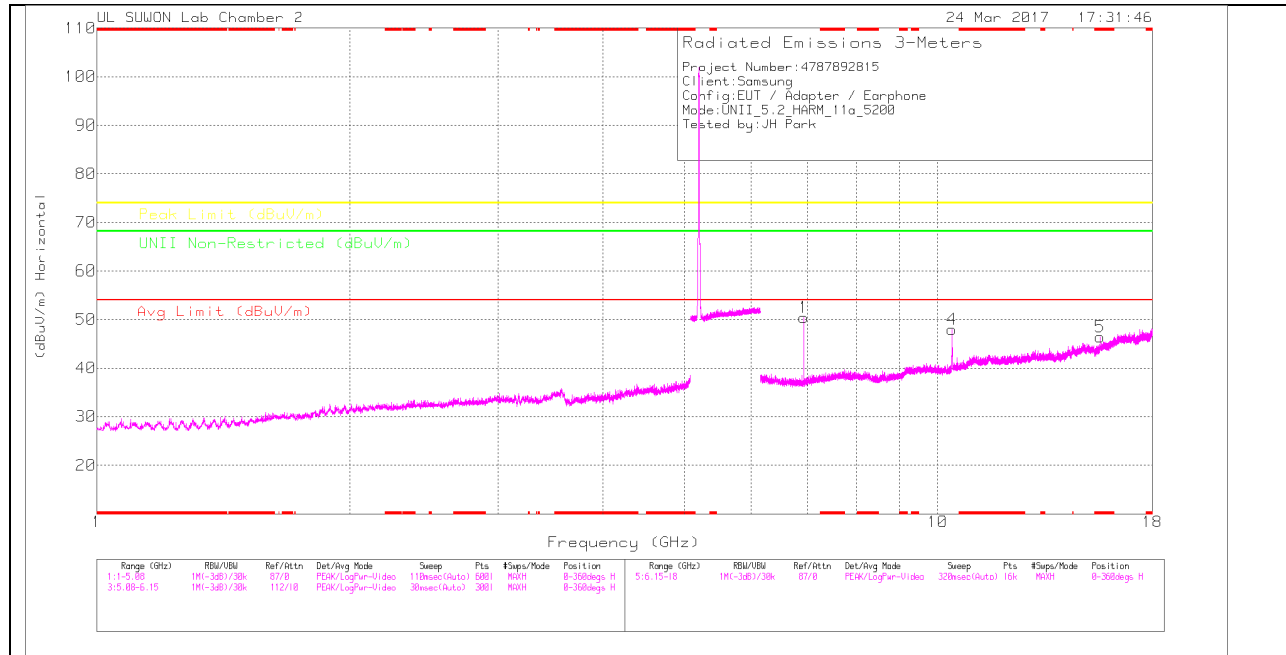
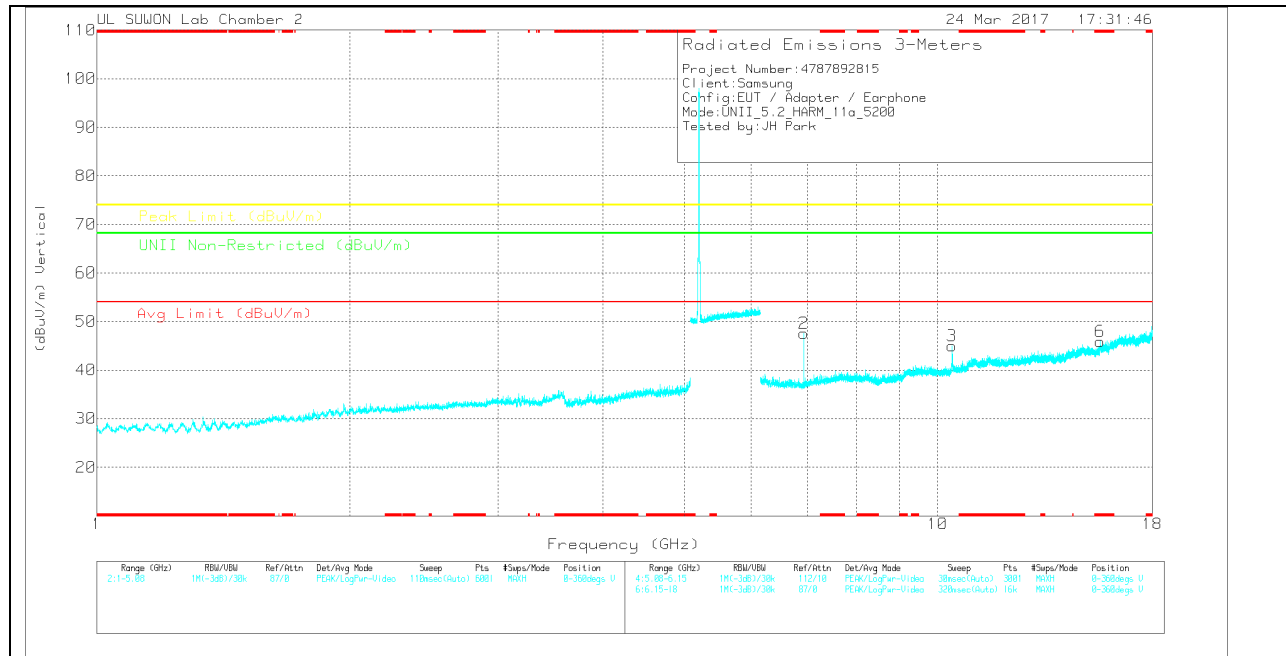


MID CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117/0016 8724_150 619	6GHz_HP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.933	36.31	PK	35.5	-21.4	0	50.41	-	-	-	-	68.2	-17.79	0-360	250	H
4	10.401	26.74	PK	37.6	-16.4	0	47.94	-	-	-	-	68.2	-20.26	0-360	250	H
5	* 15.603	20.95	PK	40	-14.5	0	46.45	-	-	74	-27.55	-	-	0-360	250	H
2	6.933	33.48	PK	35.5	-21.4	0	47.58	-	-	-	-	68.2	-20.62	0-360	150	V
3	10.398	23.8	PK	37.6	-16.4	0	45	-	-	-	-	68.2	-23.2	0-360	150	V
6	* 15.601	20.33	PK	40	-14.5	0	45.83	-	-	74	-28.17	-	-	0-360	150	V

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

PK – Peak Detector

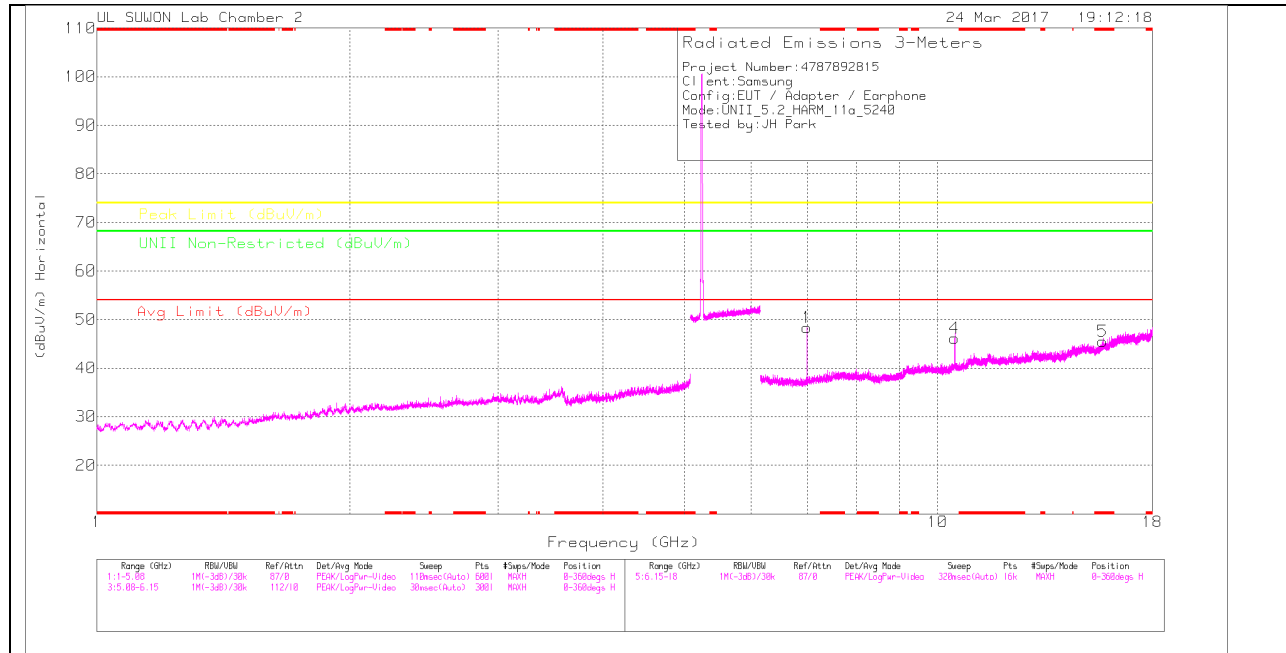
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117/001687 24_150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6.933	40.16	PK-U	35.5	-21.4	0	54.26	-	-	-	-	68.2	-13.94	163	128	H
6.933	38.93	PK-U	35.5	-21.4	0	53.03	-	-	-	-	68.2	-15.17	81	133	V
10.404	33.7	PK-U	37.6	-16.3	0	55	-	-	-	-	68.2	-13.2	194	164	V
10.4	35.84	PK-U	37.6	-16.4	0	57.04	-	-	-	-	68.2	-11.16	197	153	H

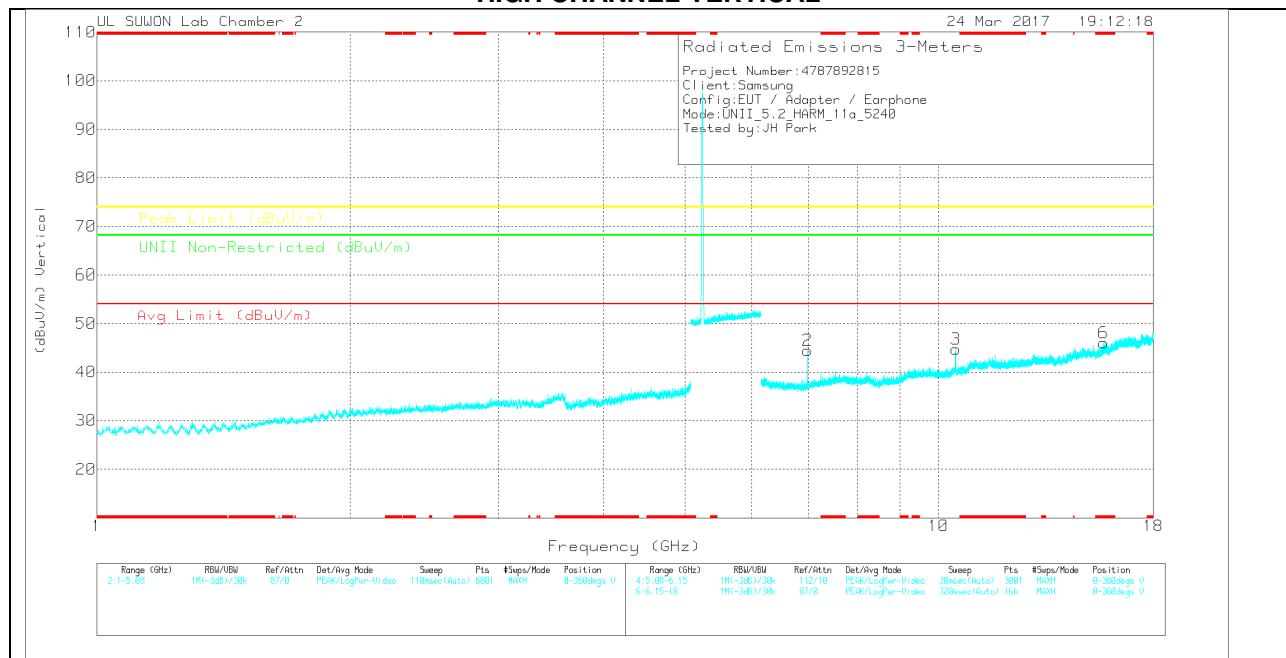
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

HIGH CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724), 150 619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.986	33.32	PK	35.5	-20.5	0	48.32	-	-	-	-	68.2	-19.88	0-360	250	H
4	10.477	24.89	PK	37.7	-16.4	0	46.19	-	-	-	-	68.2	-22.01	0-360	150	H
5	* 15.721	20.22	PK	40.1	-14.8	0	45.52	-	-	74	-28.48	-	-	0-360	150	H
2	6.986	29.52	PK	35.5	-20.5	0	44.52	-	-	-	-	68.2	-23.68	0-360	150	V
3	10.48	23.47	PK	37.7	-16.4	0	44.77	-	-	-	-	68.2	-23.43	0-360	150	V
6	* 15.721	20.69	PK	40.1	-14.8	0	45.99	-	-	74	-28.01	-	-	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

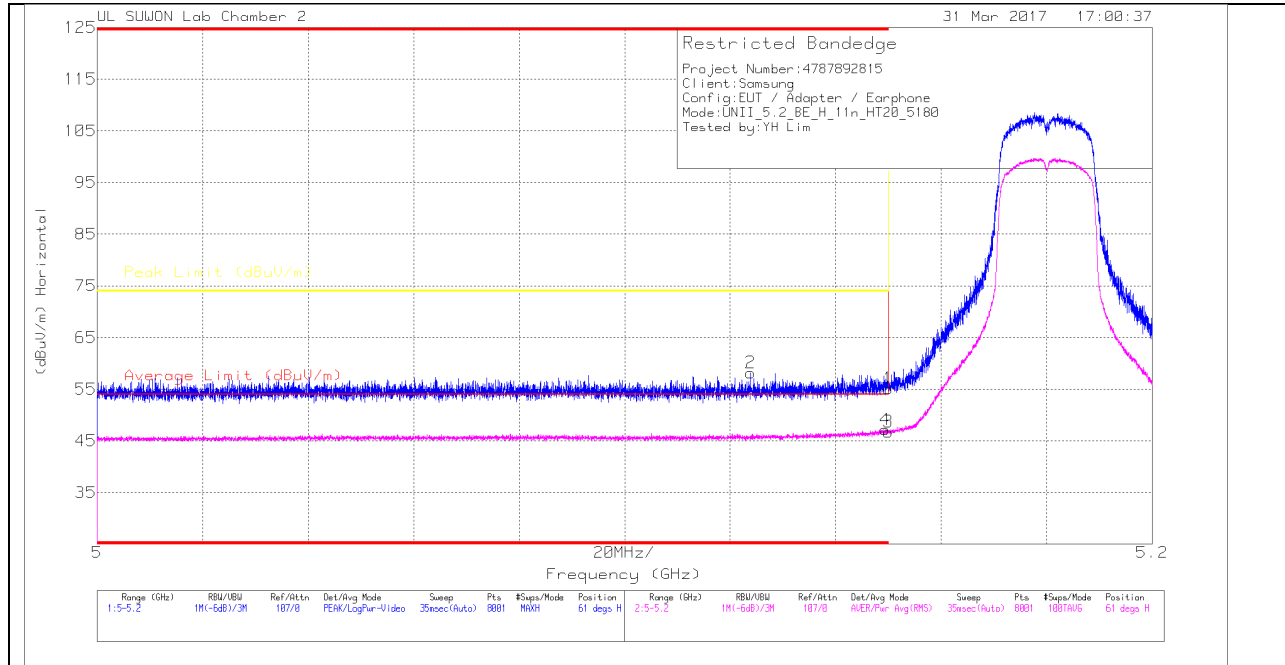
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24), 150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6.987	38.02	PK-U	35.5	-20.5	0	53.02	-	-	-	-	68.2	-15.18	162	169	H
6.986	37.26	PK-U	35.5	-20.5	0	52.26	-	-	-	-	68.2	-15.94	79	121	V
10.487	34.94	PK-U	37.7	-16.5	0	56.14	-	-	-	-	68.2	-12.06	197	133	V
10.48	35.96	PK-U	37.7	-16.4	0	57.26	-	-	-	-	68.2	-10.94	205	148	H

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

PK-U - U-NII: Maximum Peak

10.1.2. TX Above 1GHz 802.11n HT20 MODE IN THE 5.2GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

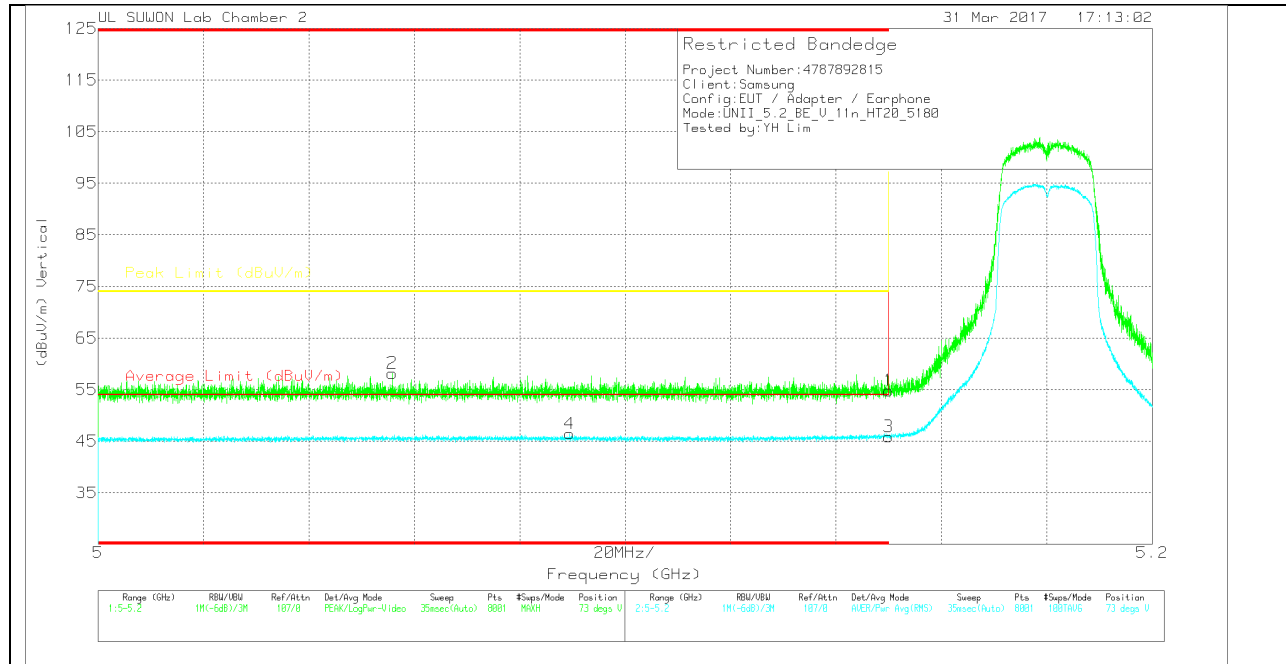
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	36.35	Pk	34.1	-15.3	0	55.15	-	-	74	-18.85	61	222	H
2	* 5.124	39.3	Pk	34.1	-15.2	0	58.2	-	-	74	-15.8	61	222	H
3	* 5.15	27.66	RMS	34.1	-15.3	.3	46.76	54	-7.24	-	-	61	222	H
4	* 5.149	28.07	RMS	34.1	-15.3	.3	47.17	54	-6.83	-	-	61	222	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB[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	* 5.15	36.01	Pk		-15.3	0	54.81	-	-	74	-19.19	73	143	V
2	* 5.056	39.39	Pk		-15.2	0	58.19	-	-	74	-15.81	73	143	V
3	* 5.15	26.78	RMS		-15.3	.3	45.88	54	-8.12	-	-	73	143	V
4	* 5.089	27.37	RMS		-15.2	.3	46.47	54	-7.53	-	-	73	143	V

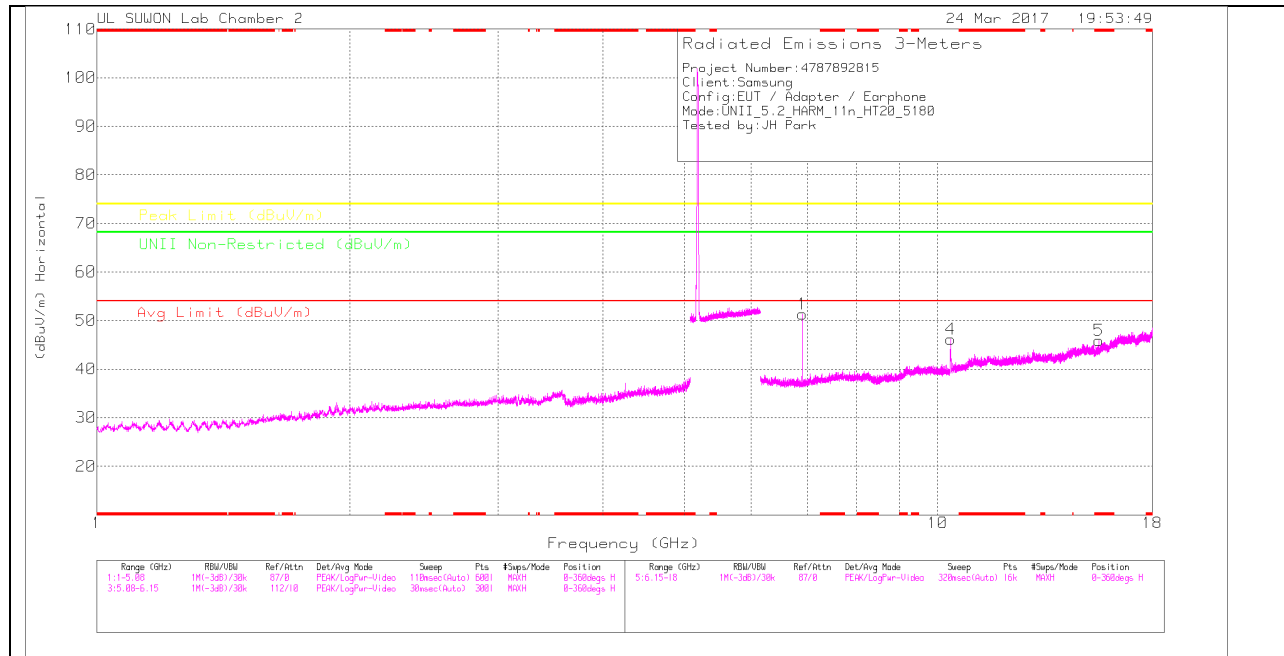
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

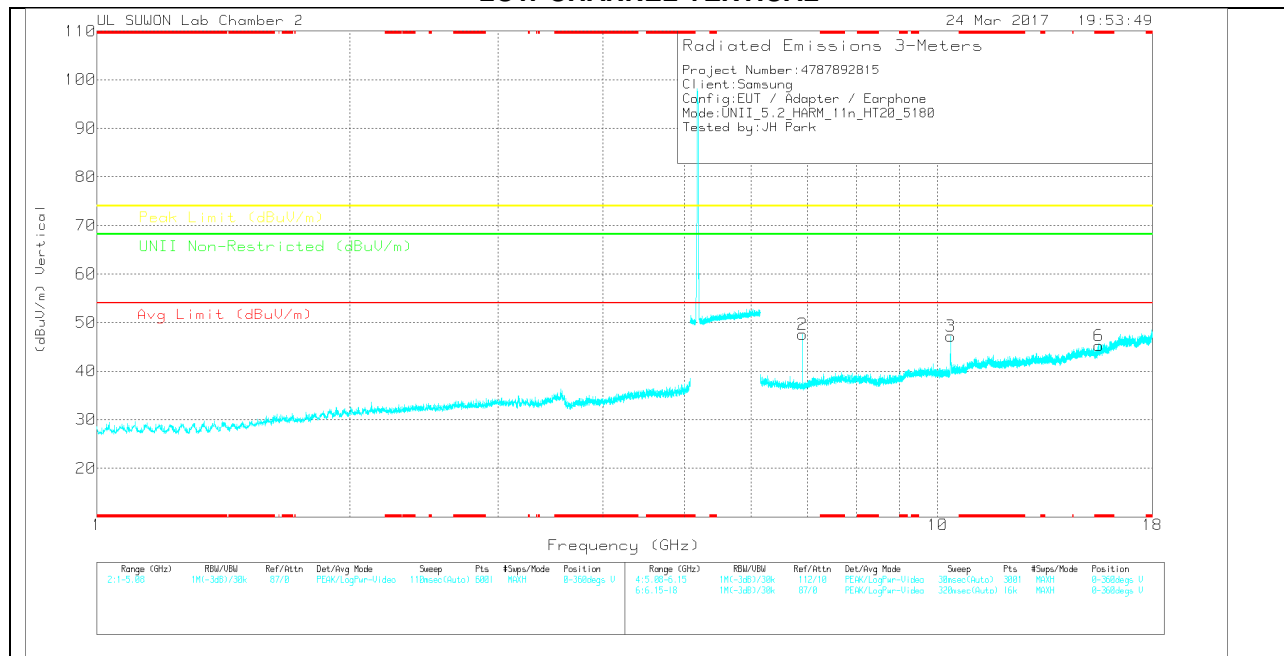
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	6GHz_HP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.906	37.65	PK	35.5	-21.8	0	51.35	-	-	-	-	68.2	-16.85	0-360	150	H
4	10.359	25.27	PK	37.6	-16.7	0	46.17	-	-	-	-	68.2	-22.03	0-360	250	H
5	* 15.542	20.38	PK	39.9	-14.4	0	45.88	-	-	74	-28.12	-	-	0-360	150	H
2	6.906	33.9	PK	35.5	-21.8	0	47.6	-	-	-	-	68.2	-20.6	0-360	250	V
3	10.359	26.29	PK	37.6	-16.7	0	47.19	-	-	-	-	68.2	-21.01	0-360	150	V
6	* 15.535	19.9	PK	39.9	-14.5	0	45.3	-	-	74	-28.7	-	-	0-360	150	V

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

PK – Peak Detector

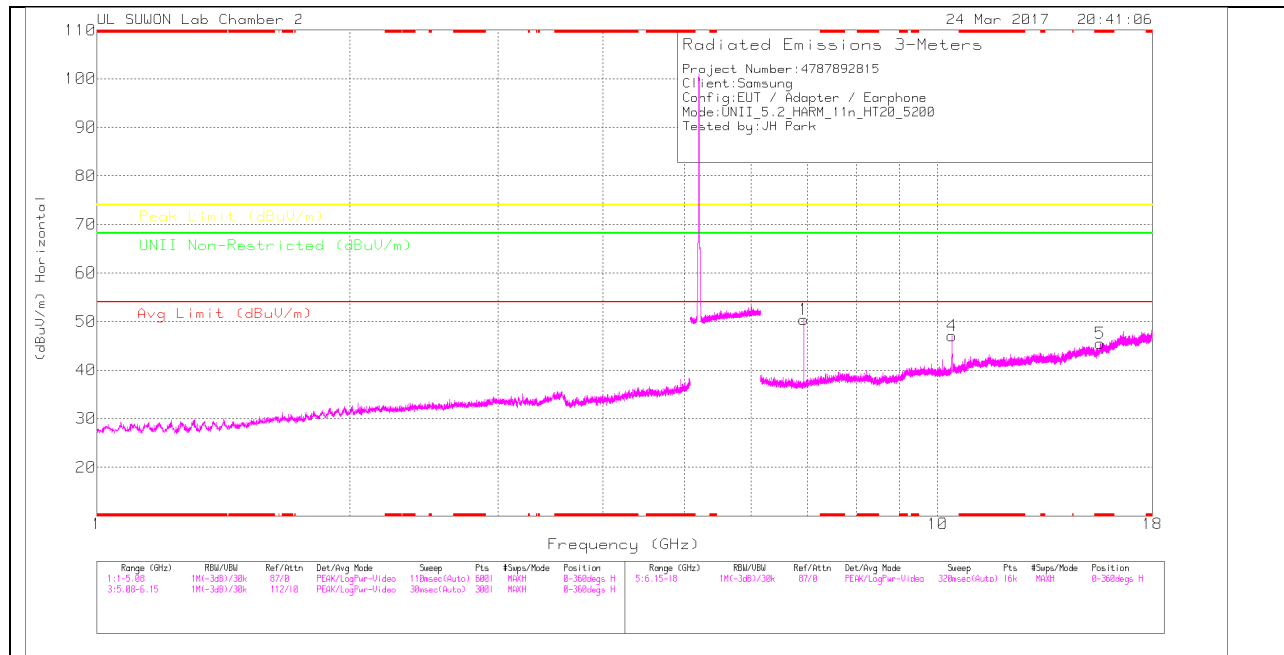
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6.907	41.05	PK-U	35.5	-21.8	0	54.75	-	-	-	-	68.2	-13.45	168	164	H
6.907	39.45	PK-U	35.5	-21.8	0	53.15	-	-	-	-	68.2	-15.05	81	106	V
10.356	36.22	PK-U	37.6	-16.8	0	57.02	-	-	-	-	68.2	-11.18	194	128	V
10.362	35.93	PK-U	37.6	-16.7	0	56.83	-	-	-	-	68.2	-11.37	156	189	H

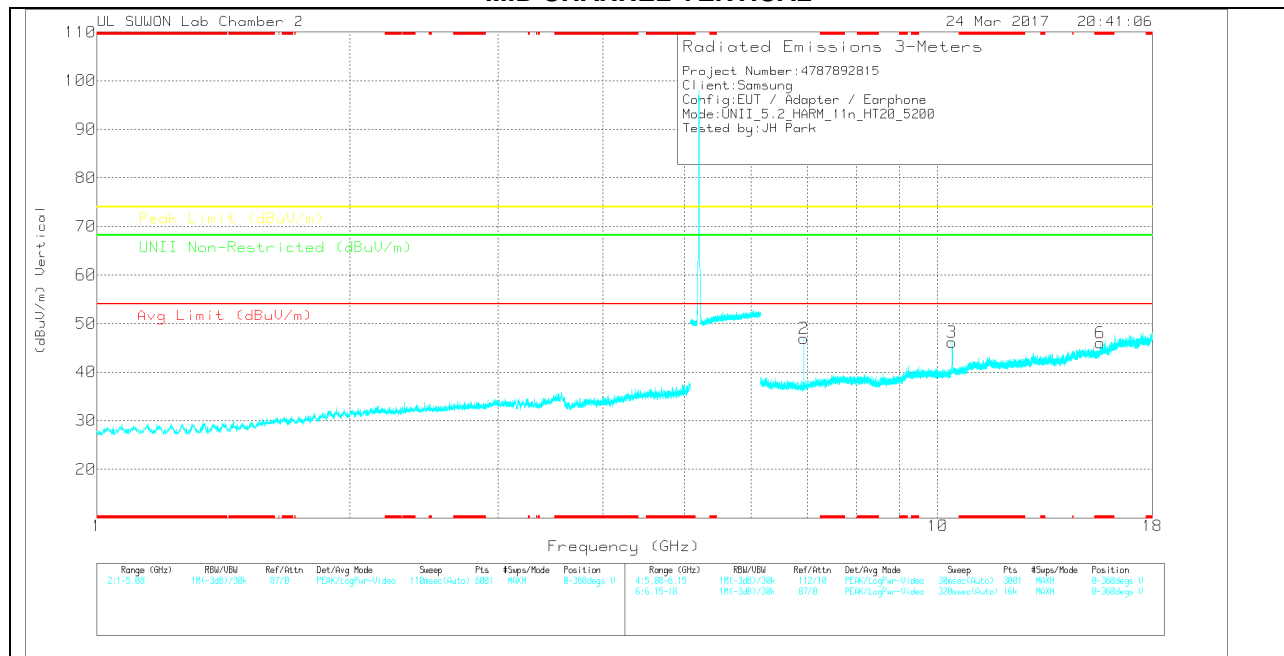
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

MID CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	6GHz_HP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.933	36.34	PK	35.5	-21.4	0	50.44	-	-	-	-	68.2	-17.76	0-360	250	H
4	10.399	25.83	PK	37.6	-16.4	0	47.03	-	-	-	-	68.2	-21.17	0-360	250	H
5	* 15.602	19.98	PK	40	-14.5	0	45.48	-	-	74	-28.52	-	-	0-360	150	H
2	6.933	32.84	PK	35.5	-21.4	0	46.94	-	-	-	-	68.2	-21.26	0-360	150	V
3	10.401	24.92	PK	37.6	-16.4	0	46.12	-	-	-	-	68.2	-22.08	0-360	150	V
6	* 15.605	20.46	PK	40	-14.5	0	45.96	-	-	74	-28.04	-	-	0-360	150	V

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

PK – Peak Detector

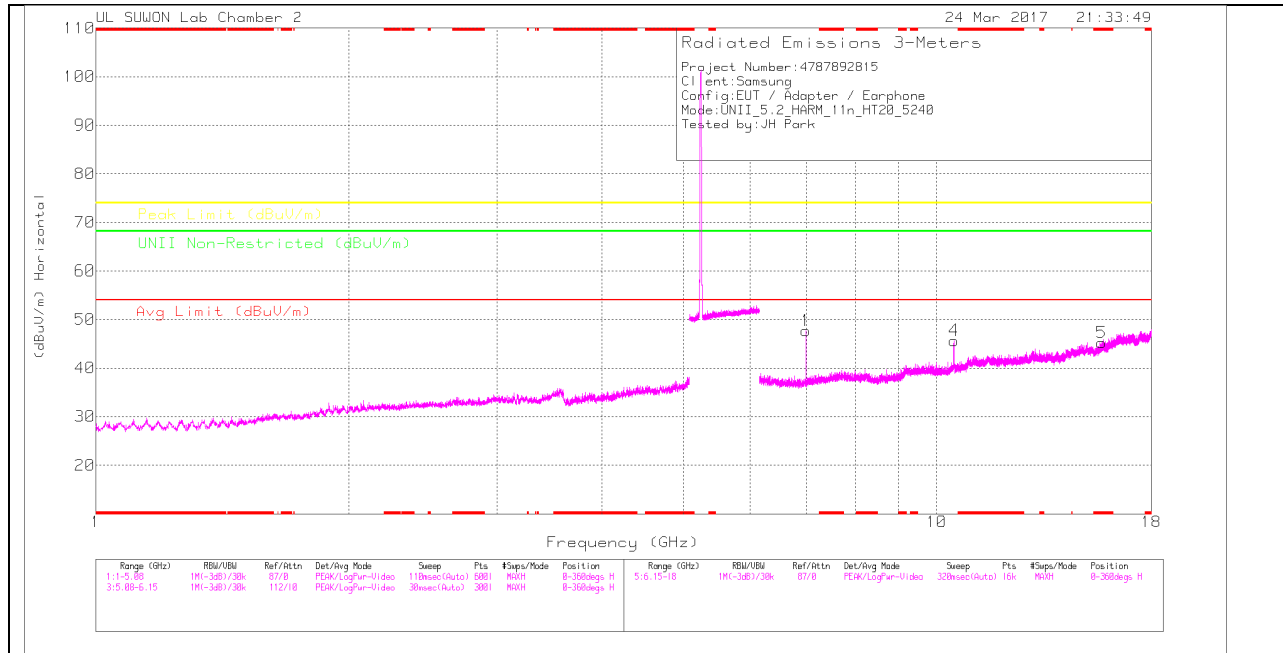
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6.933	40.4	PK-U	35.5	-21.4	0	54.5	-	-	-	-	68.2	-13.7	160	133	H
6.933	39.11	PK-U	35.5	-21.4	0	53.21	-	-	-	-	68.2	-14.99	78	125	V
10.398	34.92	PK-U	37.6	-16.4	0	56.12	-	-	-	-	68.2	-12.08	192	151	V
10.404	35.17	PK-U	37.6	-16.3	0	56.47	-	-	-	-	68.2	-11.73	190	148	H

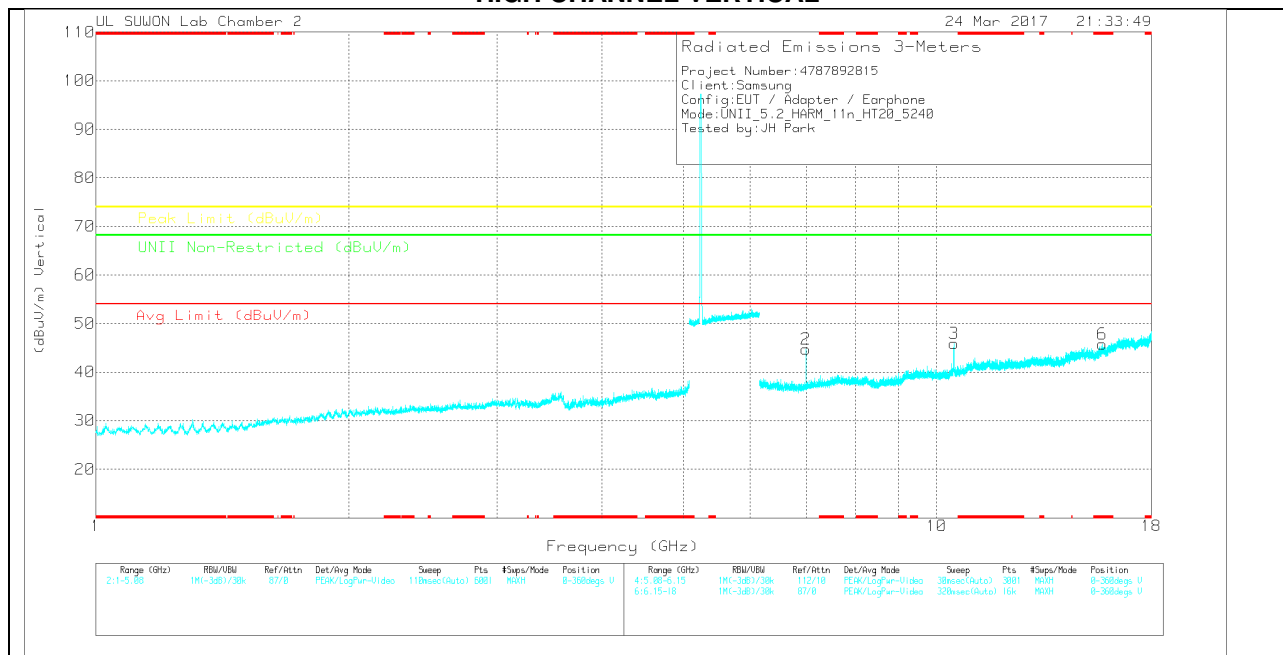
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

HIGH CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117/0016 8724_150 619	6GHz_HP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.986	32.66	PK	35.5	-20.5	0	47.66	-	-	-	-	68.2	-20.54	0-360	150	H
4	10.479	24.39	PK	37.7	-16.4	0	45.69	-	-	-	-	68.2	-22.51	0-360	150	H
5	* 15.722	19.86	PK	40.2	-14.8	0	45.26	-	-	74	-28.74	-	-	0-360	150	H
2	6.986	29.74	PK	35.5	-20.5	0	44.74	-	-	-	-	68.2	-23.46	0-360	150	V
3	10.479	24.64	PK	37.7	-16.4	0	45.94	-	-	-	-	68.2	-22.26	0-360	150	V
6	* 15.723	20.31	PK	40.2	-14.8	0	45.71	-	-	74	-28.29	-	-	0-360	150	V

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

PK – Peak Detector

Radiated Emissions

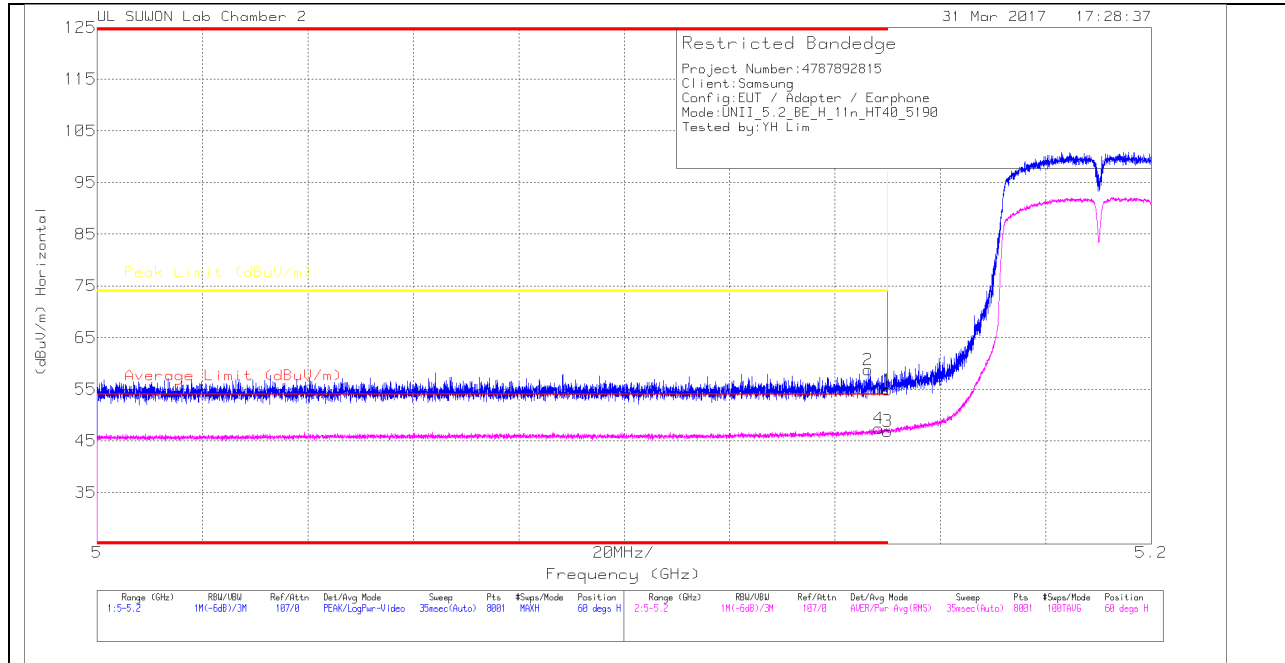
Frequency (GHz)	Meter Reading (dBuV)	Det	3117/001687 24_150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6.987	38.31	PK-U	35.5	-20.5	0	53.31	-	-	-	-	68.2	-14.89	102	142	H
6.987	36.81	PK-U	35.5	-20.5	0	51.81	-	-	-	-	68.2	-16.39	78	122	V
10.477	34.11	PK-U	37.7	-16.4	0	55.41	-	-	-	-	68.2	-12.79	193	153	V
10.478	35.78	PK-U	37.7	-16.4	0	57.08	-	-	-	-	68.2	-11.12	202	136	H

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

PK-U - U-NII: Maximum Peak

10.1.3. TX Above 1GHz 802.11n HT40 MODE IN THE 5.2GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

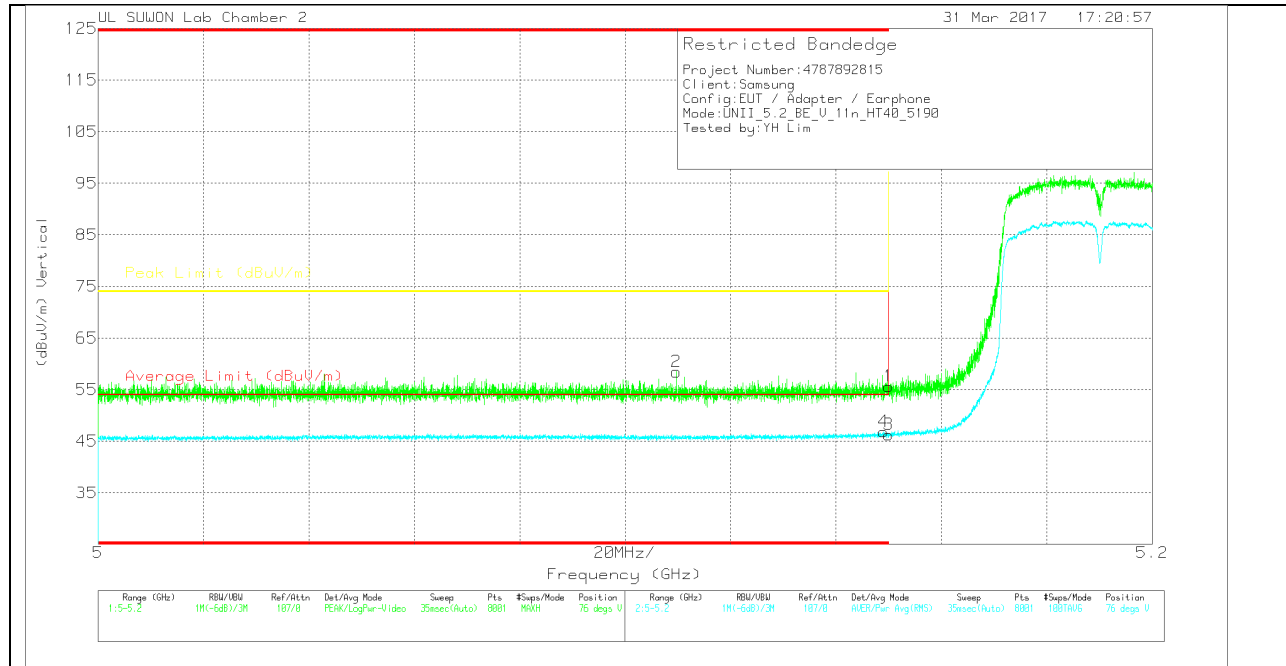
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	36.04	PK	34.1	-15.3	0	54.84	-	-	74	-19.16	60	237	H
2	* 5.146	39.93	PK	34.1	-15.3	0	58.73	-	-	74	-15.27	60	237	H
3	* 5.15	27.49	RMS	34.1	-15.3	.56	46.85	54	-7.15	-	-	60	237	H
4	* 5.148	28.06	RMS	34.1	-15.3	.56	47.42	54	-6.58	-	-	60	237	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB[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	* 5.15	36.86	Pk		-15.3	0	55.66	-	-	74	-18.34	76	118	V
2	* 5.11	39.67	Pk		-15.3	0	58.47	-	-	74	-15.53	76	118	V
3	* 5.15	26.92	RMS		-15.3	.56	46.28	54	-7.72	-	-	76	118	V
4	* 5.149	27.49	RMS		-15.3	.56	46.85	54	-7.15	-	-	76	118	V

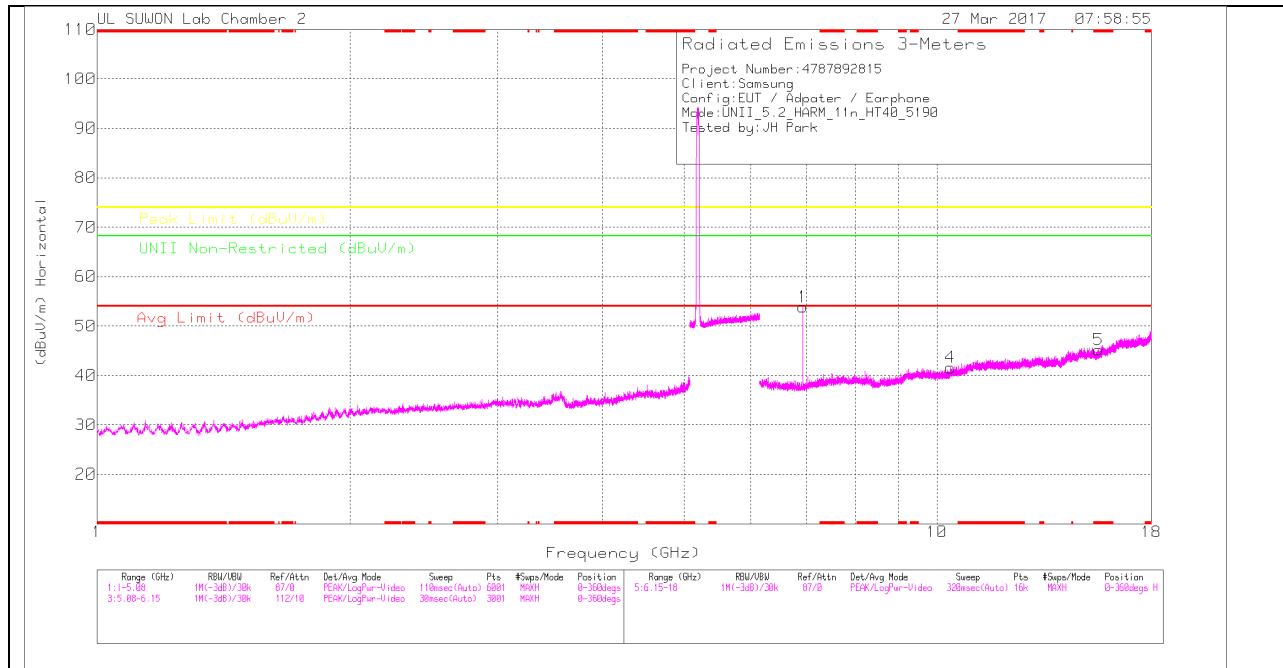
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

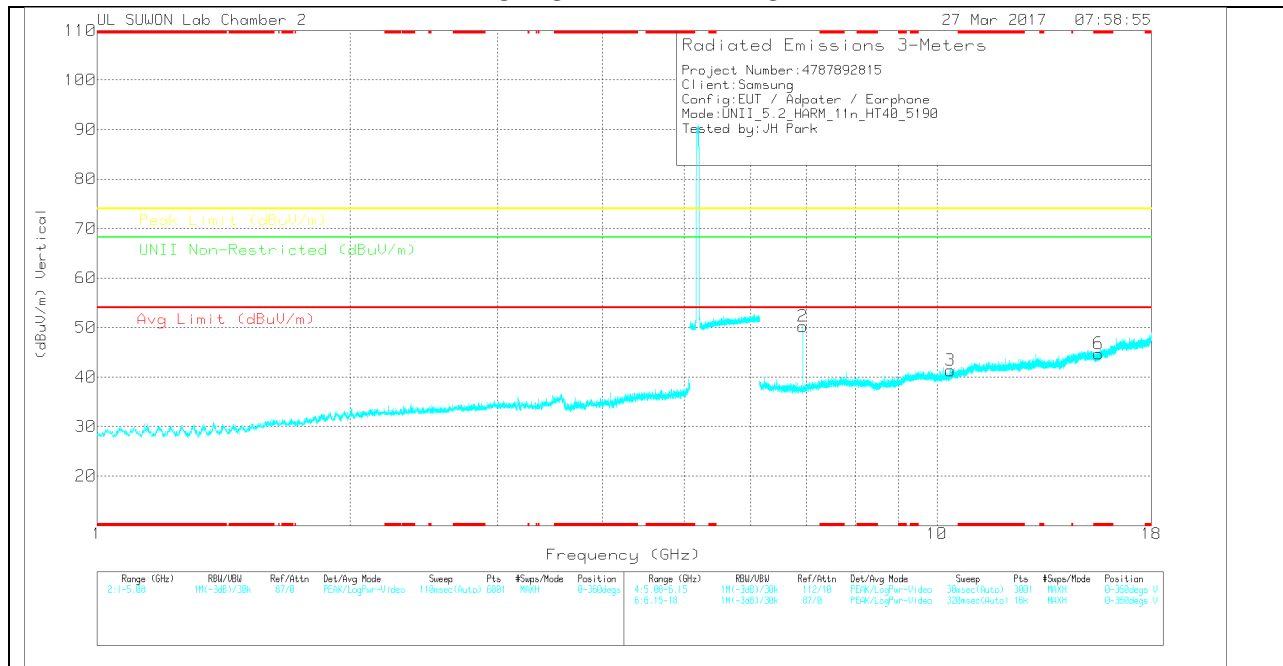
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[0016 8724], 150 619	6GHz_HP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.92	39.93	PK	35.5	-21.6	0	53.83	-	-	-	-	68.2	-14.37	0-360	250	H
4	10.381	20.48	PK	37.6	-16.5	0	41.58	-	-	-	-	68.2	-26.62	0-360	150	H
5	* 15.57	19.76	PK	40	-14.6	0	45.16	-	-	74	-28.84	-	-	0-360	150	H
2	6.919	36.34	PK	35.5	-21.6	0	50.24	-	-	-	-	68.2	-17.96	0-360	150	V
3	10.376	20.33	PK	37.6	-16.6	0	41.33	-	-	-	-	68.2	-26.87	0-360	150	V
6	* 15.567	19.22	PK	40	-14.5	0	44.72	-	-	74	-29.28	-	-	0-360	250	V

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

PK – Peak Detector

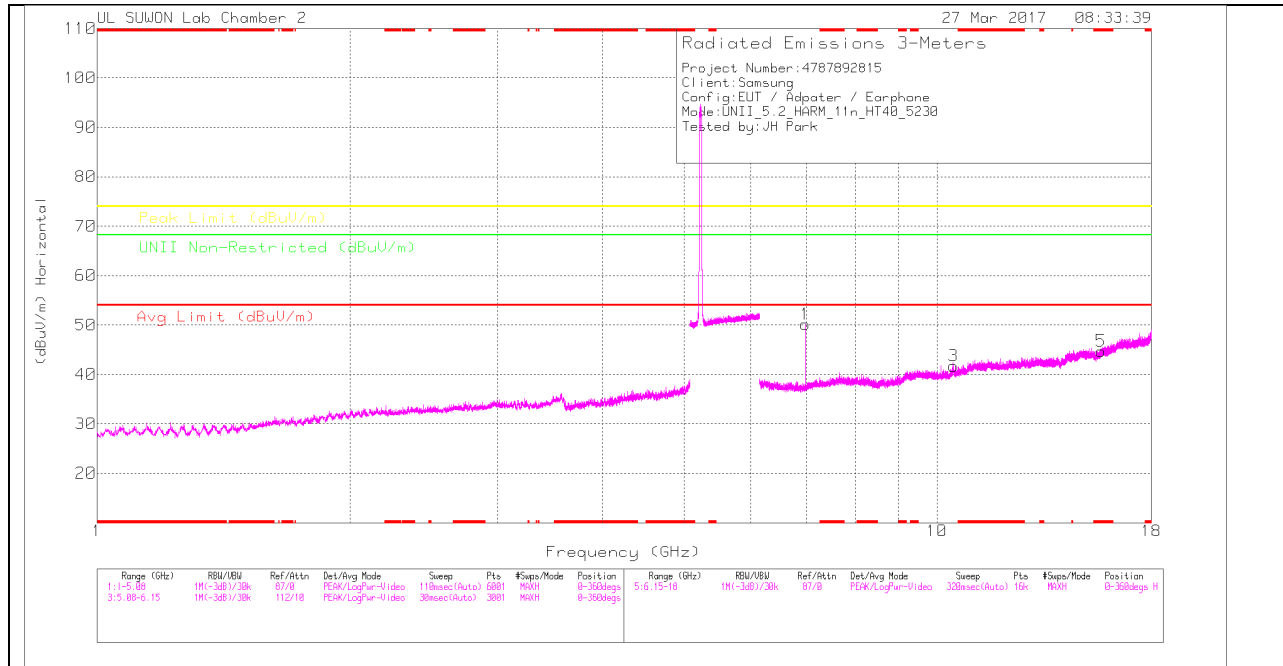
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117[001687 24], 150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6.92	42.42	PK-U	35.5	-21.6	0	56.32	-	-	-	-	68.2	-11.88	104	139	H
6.92	41.2	PK-U	35.5	-21.6	0	55.1	-	-	-	-	68.2	-13.1	78	131	V

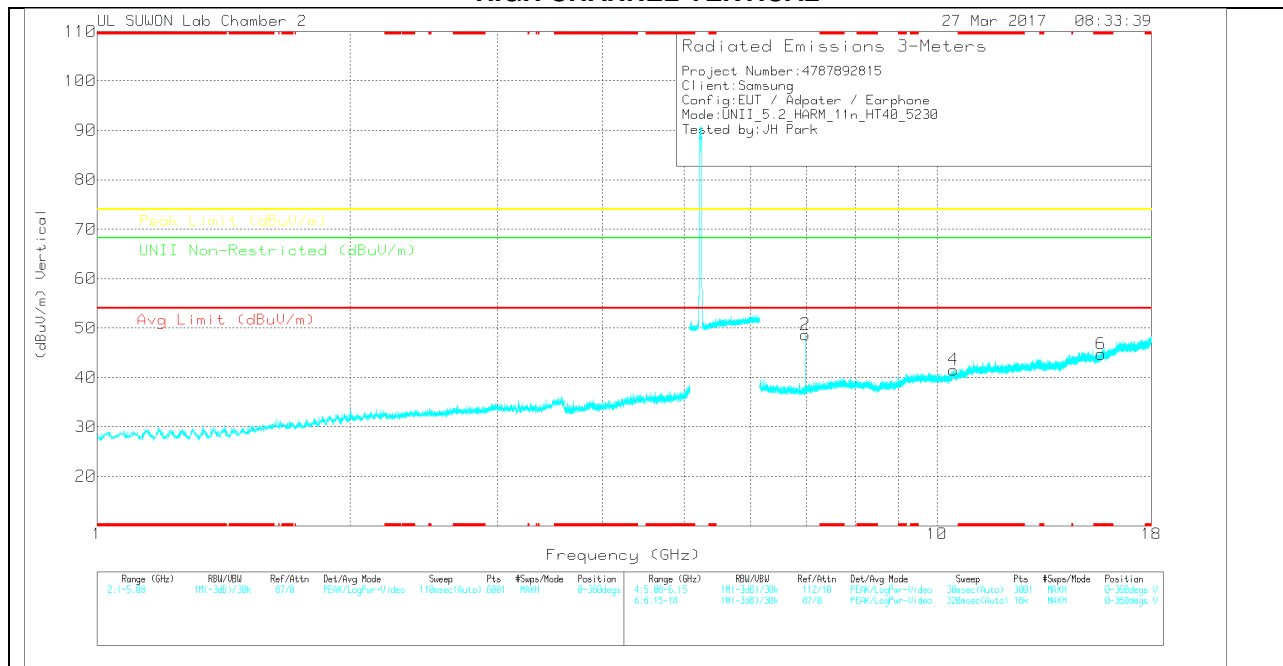
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

HIGH CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	6GHz_HP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.973	35.23	PK	35.5	-20.6	0	50.13	-	-	-	-	68.2	-18.07	0-360	150	H
3	10.46	20.32	PK	37.7	-16.3	0	41.72	-	-	-	-	68.2	-26.48	0-360	250	H
5	* 15.692	19.41	PK	40.1	-14.8	0	44.71	-	-	74	-29.29	-	-	0-360	150	H
2	6.973	33.75	PK	35.5	-20.6	0	48.65	-	-	-	-	68.2	-19.55	0-360	150	V
4	10.46	20.15	PK	37.7	-16.3	0	41.55	-	-	-	-	68.2	-26.65	0-360	150	V
6	* 15.689	19.37	PK	40.1	-14.7	0	44.77	-	-	74	-29.23	-	-	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

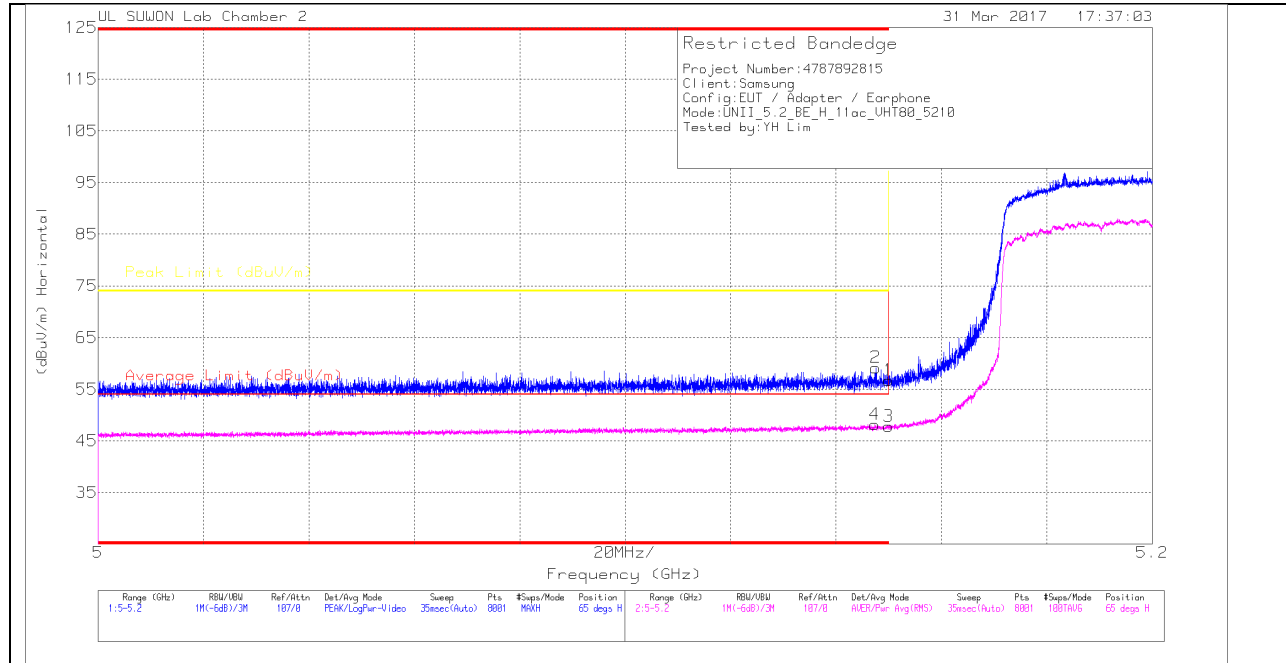
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6.973	39.68	PK-U	35.5	-20.6	0	54.58	-	-	-	-	68.2	-13.62	108	155	H
6.973	38.88	PK-U	35.5	-20.6	0	53.78	-	-	-	-	68.2	-14.42	81	115	V

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

PK-U - U-NII: Maximum Peak

10.1.4.TX ABOVE 1GHz 802.11ac VHT80 MODE IN THE 5.2GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

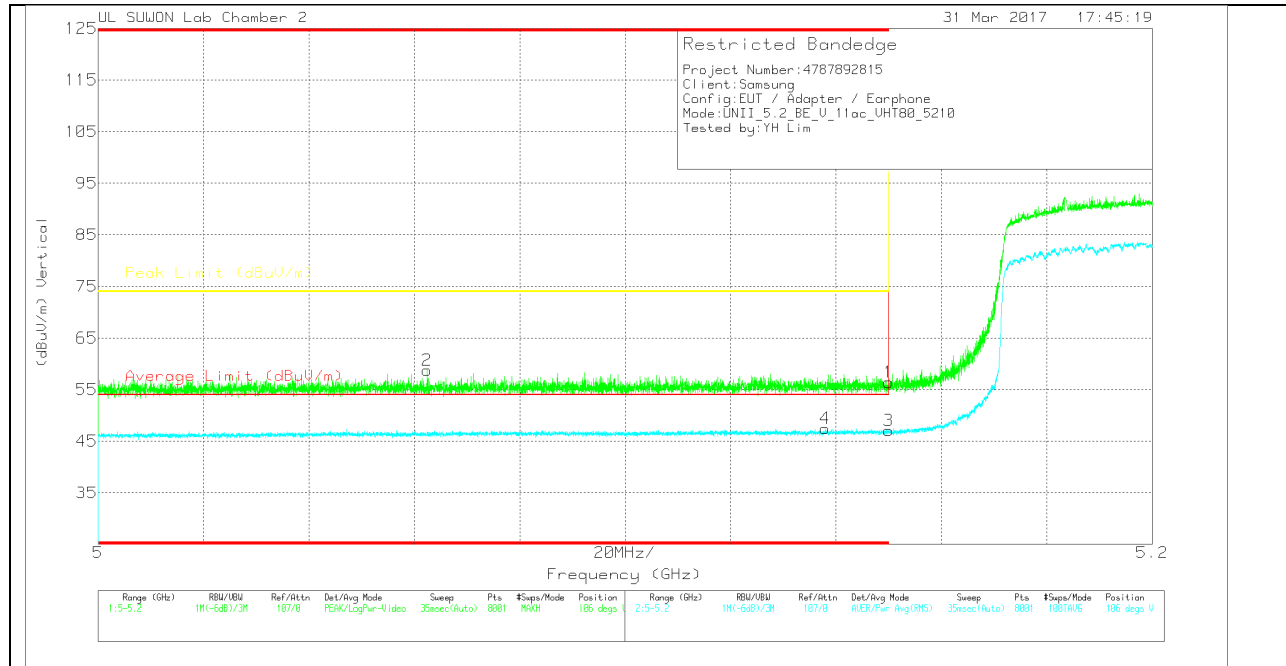
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	37.92	Pk	34.1	-15.3	0	56.72	-	-	74	-17.28	65	236	H
2	* 5.148	40.38	Pk	34.1	-15.3	0	59.18	-	-	74	-14.82	65	236	H
3	* 5.15	27.98	RMS	34.1	-15.3	1.05	47.83	54	-6.17	-	-	65	236	H
4	* 5.147	28.35	RMS	34.1	-15.3	1.05	48.2	54	-5.8	-	-	65	236	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(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	* 5.15	37.61	Pk	34.1	-15.3	0	56.41	-	-	74	-17.59	106	101	V
2	* 5.062	39.96	Pk	34	-15.2	0	58.76	-	-	74	-15.24	106	101	V
3	* 5.15	27.2	RMS	34.1	-15.3	1.05	47.05	54	-6.95	-	-	106	101	V
4	* 5.138	27.61	RMS	34.1	-15.3	1.05	47.46	54	-6.54	-	-	106	101	V

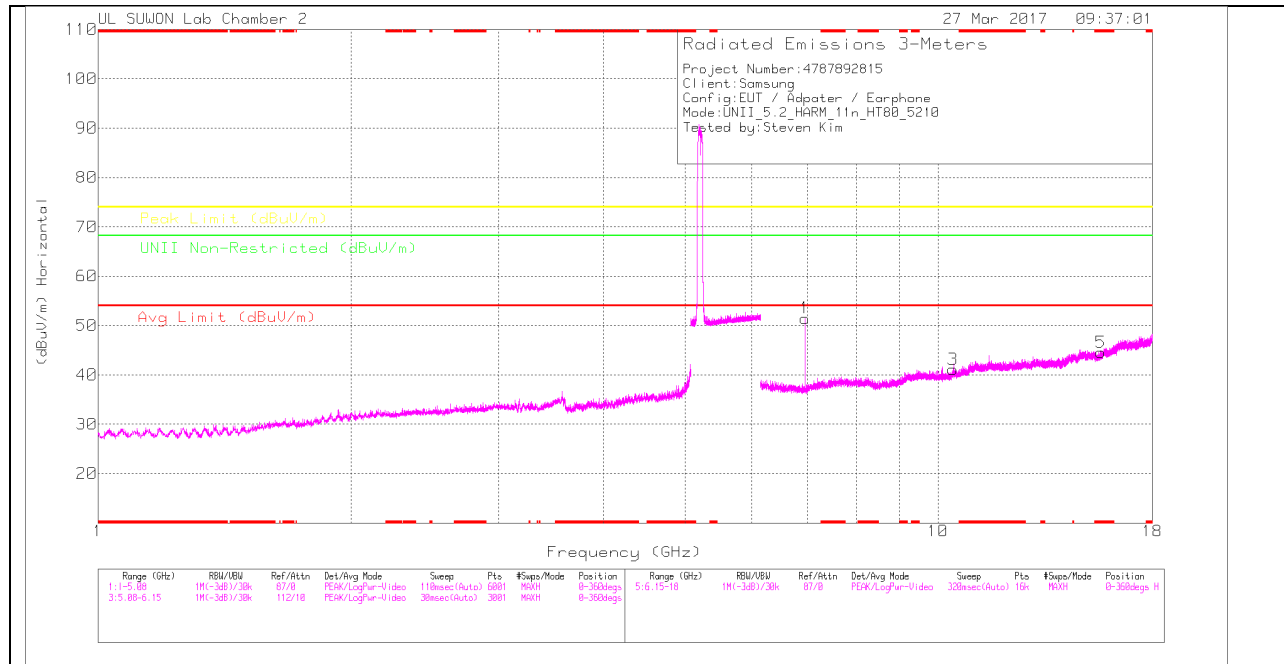
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

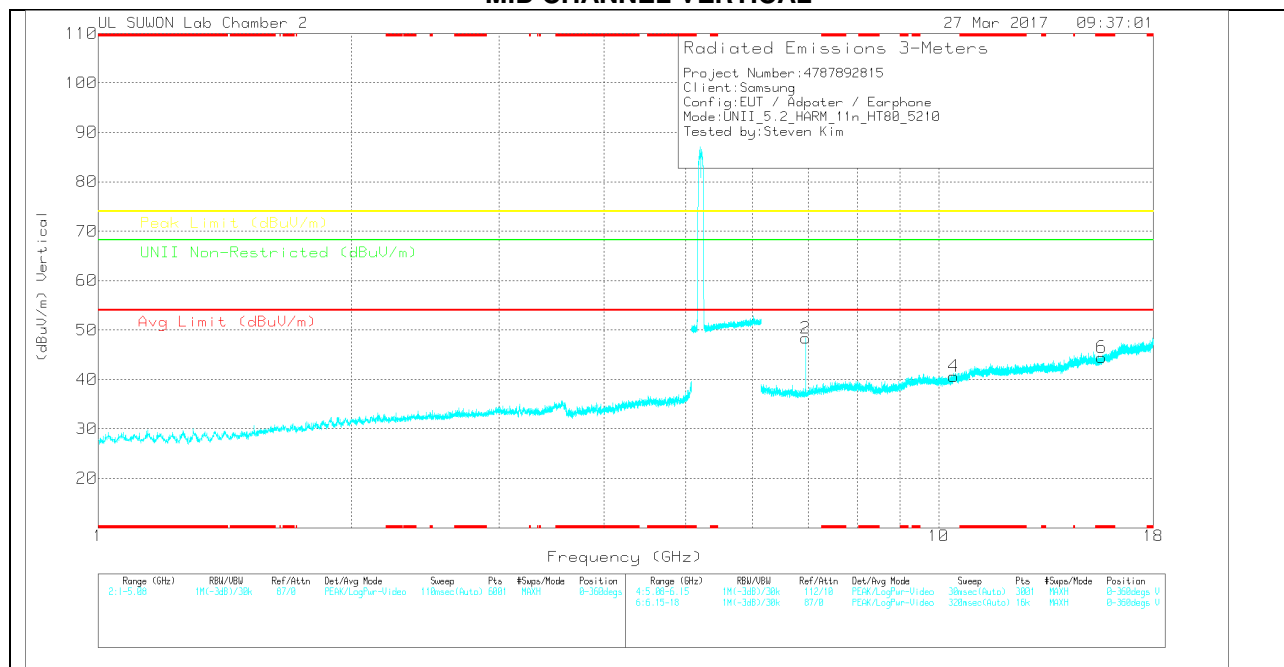
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	6GHz_HP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.946	37.19	PK	35.5	-21.2	0	51.49	-	-	-	-	68.2	-16.71	0-360	250	H
3	10.42	19.73	PK	37.6	-16.2	0	41.13	-	-	-	-	68.2	-27.07	0-360	250	H
5	* 15.632	19.26	PK	40	-14.7	0	44.56	-	-	74	-29.44	-	-	0-360	250	H
2	6.946	34.08	PK	35.5	-21.2	0	48.38	-	-	-	-	68.2	-19.82	0-360	150	V
4	10.419	19.24	PK	37.6	-16.2	0	40.64	-	-	-	-	68.2	-27.56	0-360	150	V
6	* 15.636	19.17	PK	40	-14.7	0	44.47	-	-	74	-29.53	-	-	0-360	150	V

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

PK – Peak Detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6.947	41.03	PK-U	35.5	-21.2	0	55.33	-	-	-	-	68.2	-12.87	104	137	H
6.947	39.39	PK-U	35.5	-21.2	0	53.69	-	-	-	-	68.2	-14.51	81	117	V

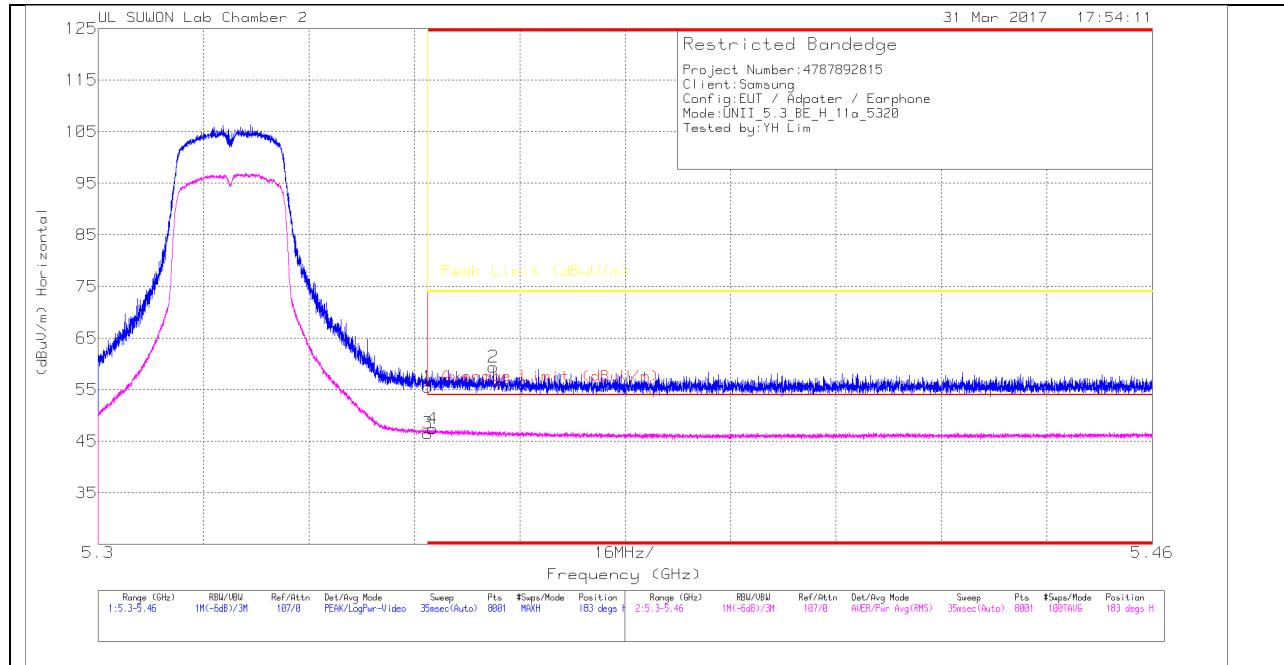
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

10.2. 5.3 GHz

10.2.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

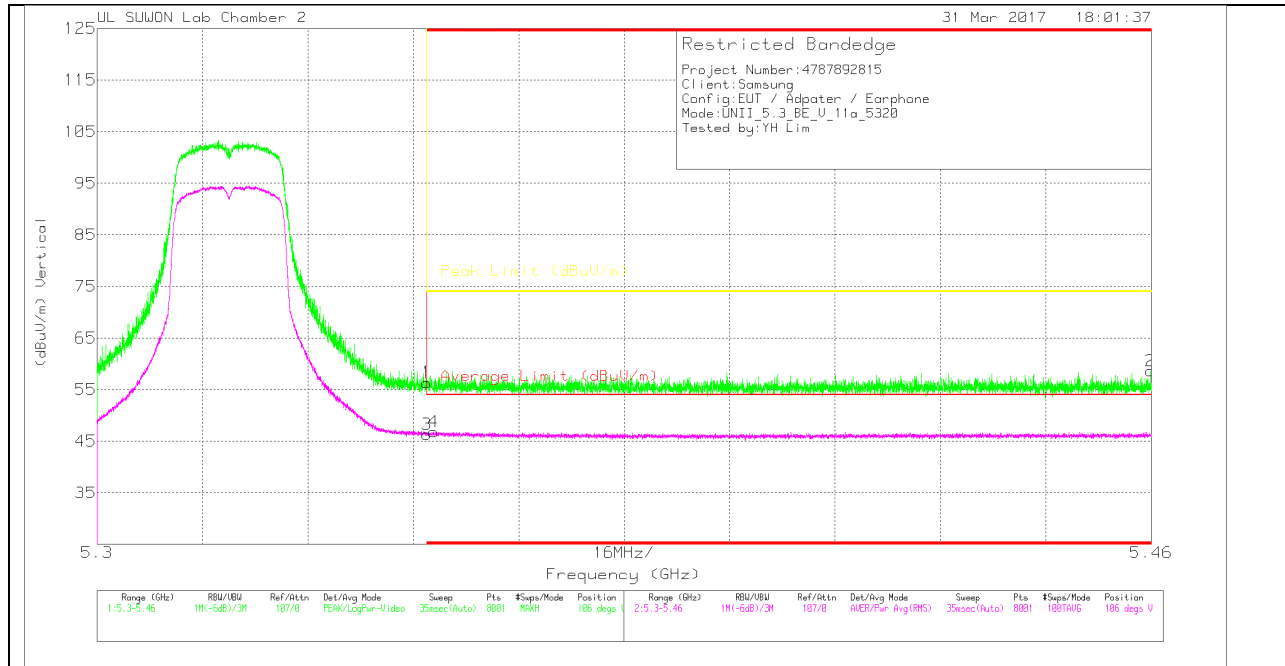
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	36.31	Pk	34.4	-15.2	0	55.51	-	-	74	-18.49	183	149	H
2	* 5.36	40.19	Pk	34.4	-15.2	0	59.39	-	-	74	-14.61	183	149	H
3	* 5.35	27.04	RMS	34.4	-15.2	.28	46.52	54	-7.48	-	-	183	149	H
4	* 5.351	27.95	RMS	34.4	-15.2	.28	47.43	54	-6.57	-	-	183	149	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(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	37.17	Pk	34.4	-15.2	0	56.37	-	-	74	-17.63	106	127	V
2	* 5.46	39.11	Pk	34.5	-15	0	58.61	-	-	74	-15.39	106	127	V
3	* 5.35	26.85	RMS	34.4	-15.2	.28	46.33	54	-7.67	-	-	106	127	V
4	* 5.351	27.35	RMS	34.4	-15.2	.28	46.83	54	-7.17	-	-	106	127	V

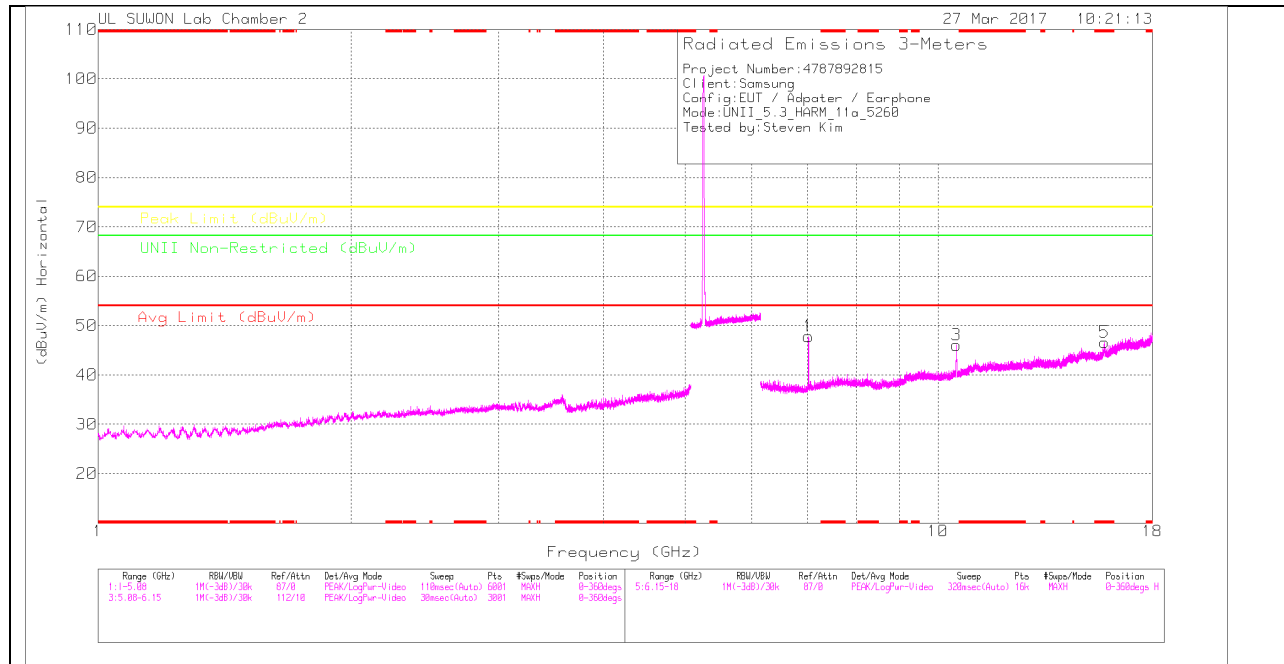
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

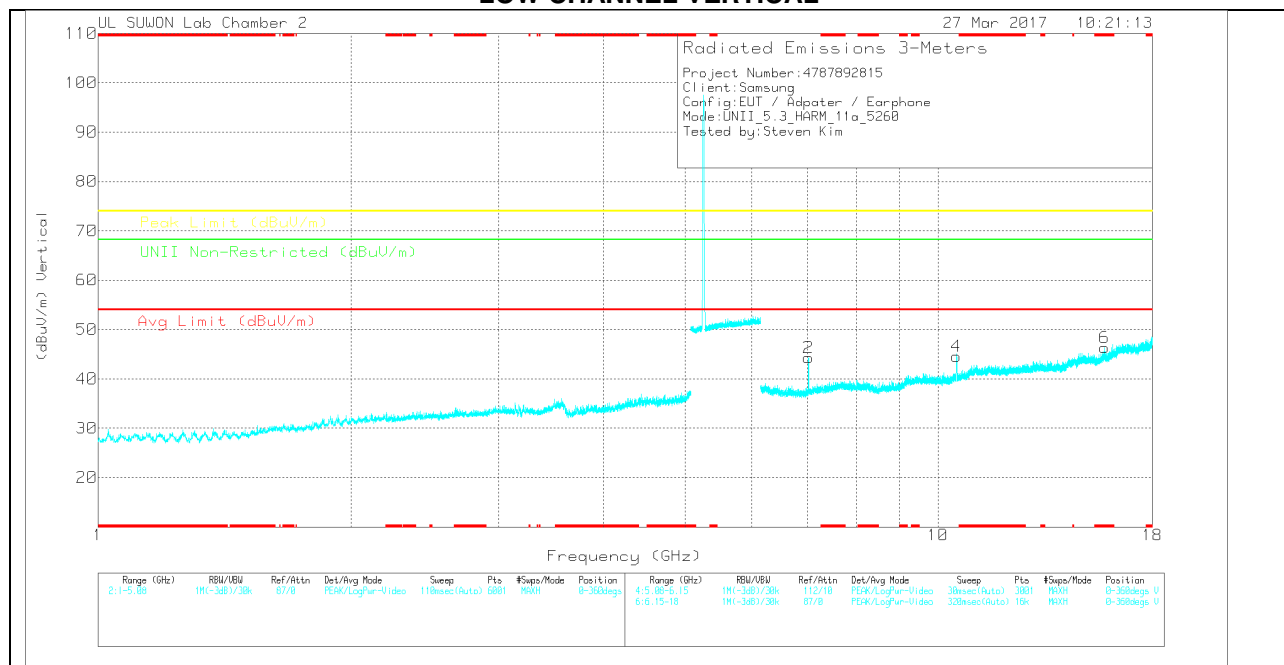
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	6GHz_HP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.013	32.51	PK	35.6	-20.3	0	47.81	-	-	-	-	68.2	-20.39	0-360	150	H
3	10.516	24.95	PK	37.7	-16.6	0	46.05	-	-	-	-	68.2	-22.15	0-360	150	H
5	* 15.783	21.11	PK	40.2	-14.7	0	46.61	-	-	74	-27.39	-	-	0-360	250	H
2	7.014	29.01	PK	35.6	-20.3	0	44.31	-	-	-	-	68.2	-23.89	0-360	150	V
4	10.521	23.44	PK	37.7	-16.6	0	44.54	-	-	-	-	68.2	-23.66	0-360	150	V
6	* 15.784	20.85	PK	40.2	-14.7	0	46.35	-	-	74	-27.65	-	-	0-360	250	V

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

PK – Peak Detector

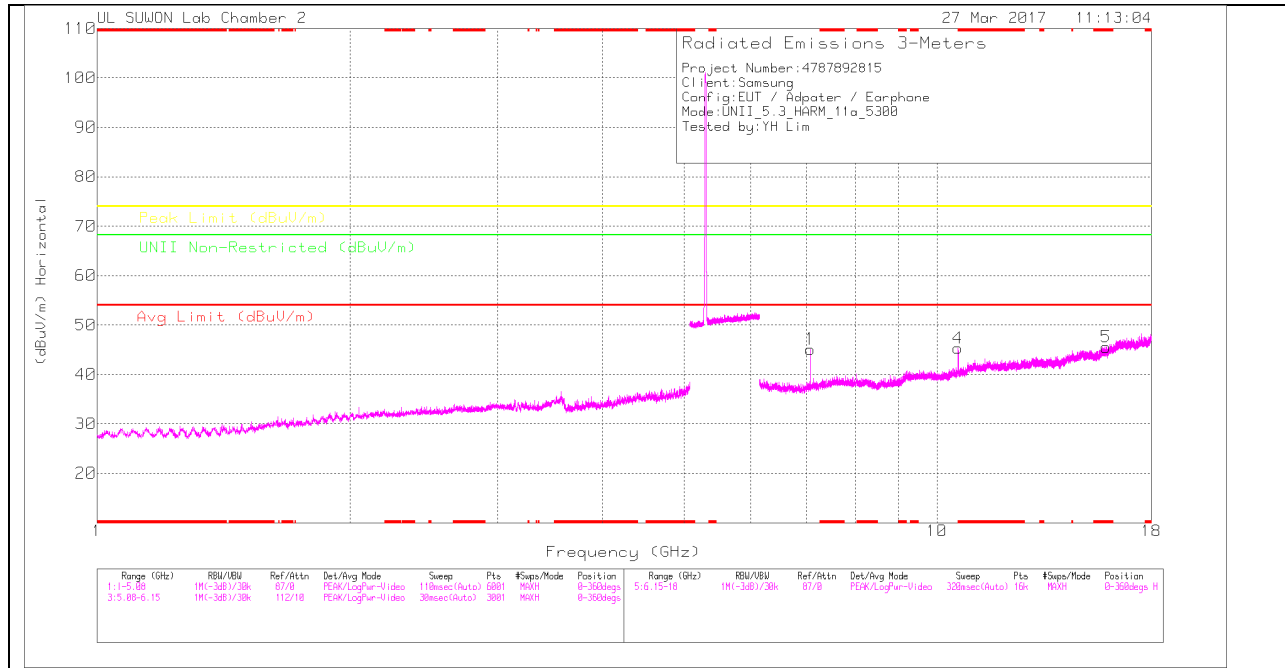
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7.013	38.33	PK-U	35.6	-20.3	0	53.63	-	-	-	-	68.2	-14.57	107	153	H
7.014	36.2	PK-U	35.6	-20.3	0	51.5	-	-	-	-	68.2	-16.7	69	146	V
10.521	37.47	PK-U	37.7	-16.6	0	58.57	-	-	-	-	68.2	-9.63	192	135	H
10.524	35.19	PK-U	37.7	-16.6	0	56.29	-	-	-	-	68.2	-11.91	191	148	V

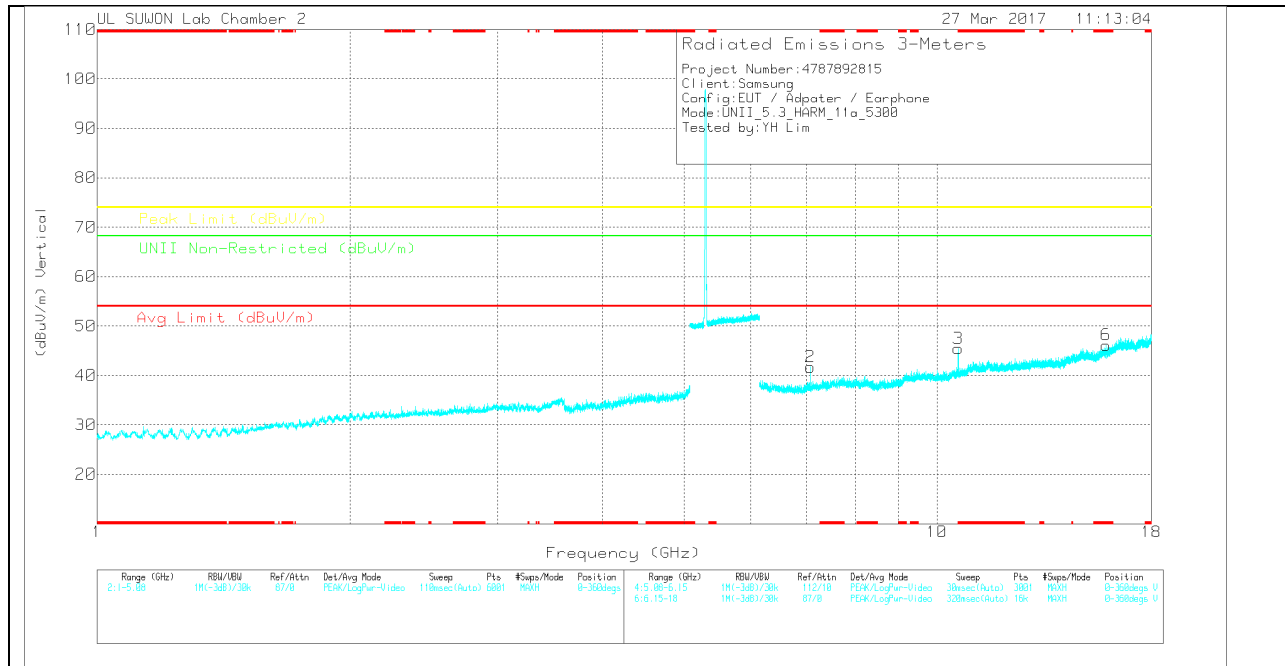
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

MID CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	6GHz_HP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.066	30.02	PK		35.6	-20.5	0	45.12	-	-	-	68.2	-23.08	0-360	150	H
4	10.596	24.1	PK		37.8	-16.6	0	45.3	-	-	-	68.2	-22.9	0-360	150	H
5	* 15.898	19.94	PK		40.4	-14.8	0	45.54	-	74	-28.46	-	-	0-360	150	H
2	7.066	26.62	PK		35.6	-20.5	0	41.72	-	-	-	68.2	-26.48	0-360	150	V
3	* 10.601	24.22	PK		37.8	-16.6	0	45.42	-	74	-28.58	-	-	0-360	150	V
6	* 15.9	20.45	PK		40.4	-14.7	0	46.15	-	74	-27.85	-	-	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

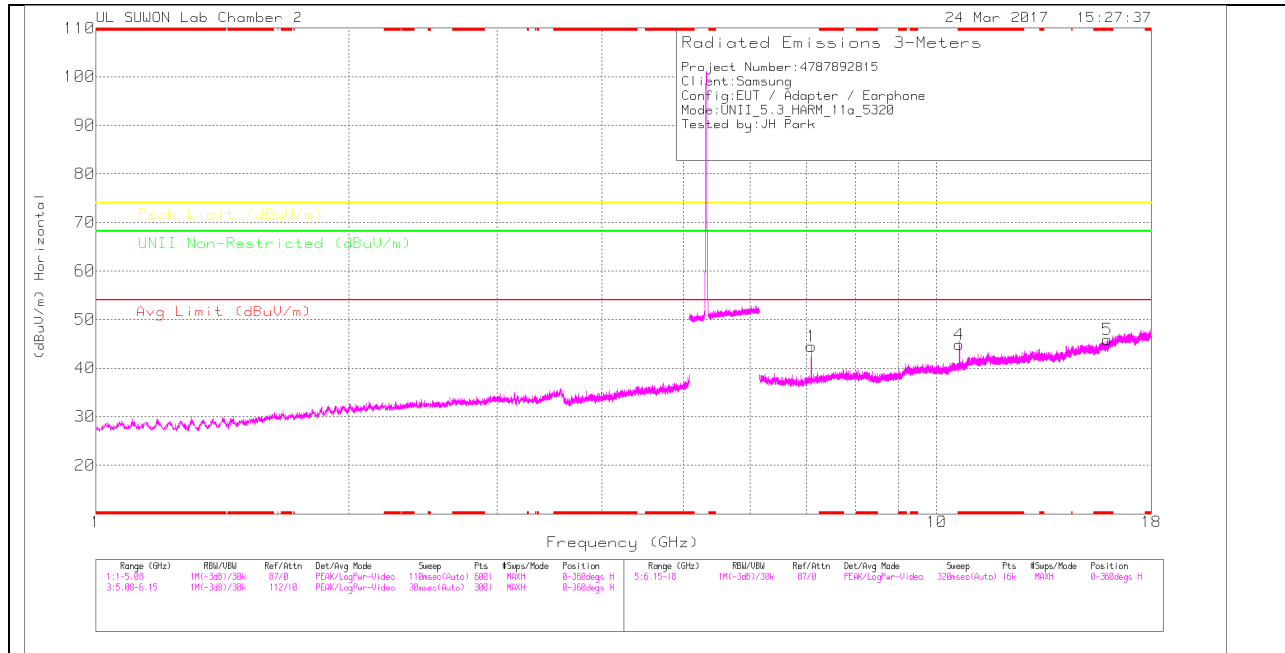
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7.067	37.29	PK-U		35.6	-20.5	0	52.39	-	-	-	68.2	-15.81	106	125	H
7.067	35.35	PK-U		35.6	-20.5	0	50.45	-	-	-	68.2	-17.75	78	113	V
* 10.601	35.37	PK-U		37.8	-16.6	0	56.57	-	74	-17.43	-	-	186	136	V
* 10.601	22.34	ADR		37.8	-16.6	.28	43.82	54	-10.18	-	-	-	186	136	V
* 10.6	36.09	PK-U		37.8	-16.6	0	57.29	-	74	-16.71	-	-	205	178	H
* 10.601	22.38	ADR		37.8	-16.6	.28	43.86	54	-10.14	-	-	-	205	178	H

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

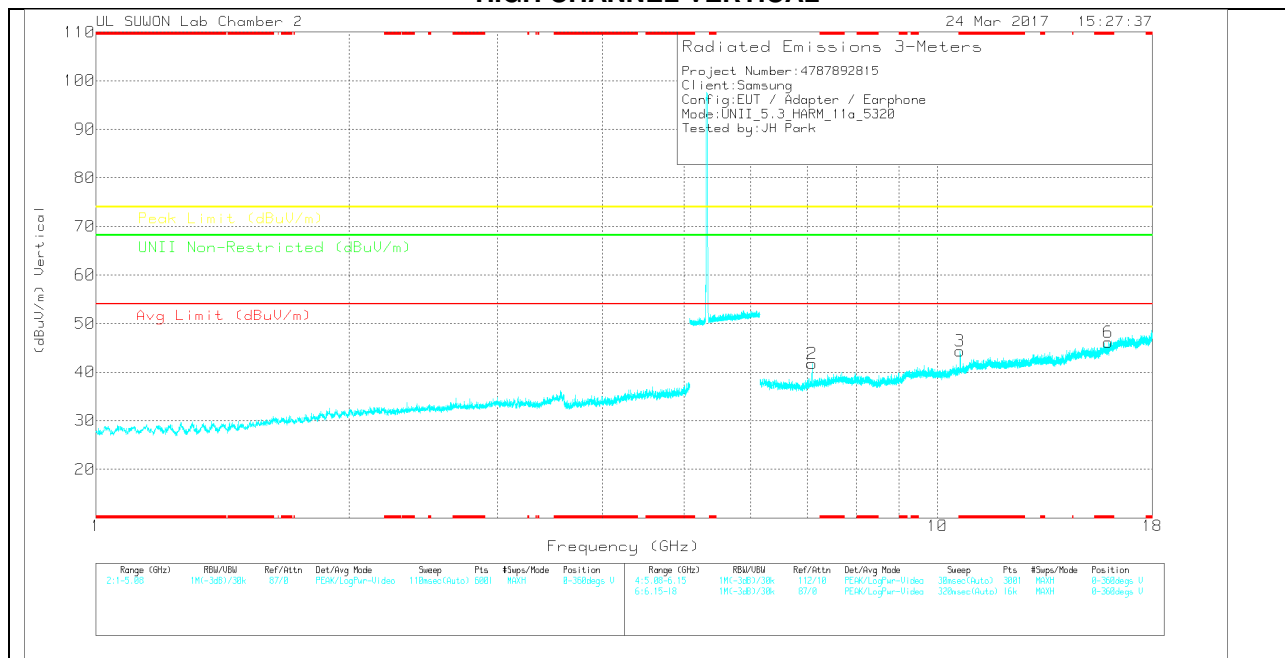
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[0016 8724], 150 619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.093	29.91	PK	35.6	-21	0	44.51	-	-	-	-	68.2	-23.69	0-360	250	H
4	* 10.64	23.69	PK	37.8	-16.6	0	44.89	-	-	74	-29.11	-	-	0-360	150	H
5	* 15.961	19.85	PK	40.4	-14.4	0	45.85	-	-	74	-28.15	-	-	0-360	250	H
2	7.093	27.11	PK	35.6	-21	0	41.71	-	-	-	-	68.2	-26.49	0-360	150	V
3	* 10.636	23.13	PK	37.8	-16.6	0	44.33	-	-	74	-29.67	-	-	0-360	150	V
6	* 15.962	20.16	PK	40.4	-14.4	0	46.16	-	-	74	-27.84	-	-	0-360	150	V

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

PK – Peak Detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117[001687 24], 150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7.093	37.64	PK-U	35.6	-21	0	52.24	-	-	-	-	68.2	-15.96	109	215	H
7.093	36.14	PK-U	35.6	-21	0	50.74	-	-	-	-	68.2	-17.46	81	162	V
* 10.64	34.23	PK-U	37.8	-16.6	0	55.43	-	-	74	-18.57	-	-	207	141	V
* 10.639	21.45	ADR	37.8	-16.6	.28	42.93	54	-11.07	-	-	-	-	207	141	V
* 10.635	36.06	PK-U	37.8	-16.7	0	57.16	-	-	74	-16.84	-	-	207	153	H
* 10.639	21.72	ADR	37.8	-16.6	.28	43.2	54	-10.8	-	-	-	-	207	153	H

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

PK-U - U-NII: Maximum Peak

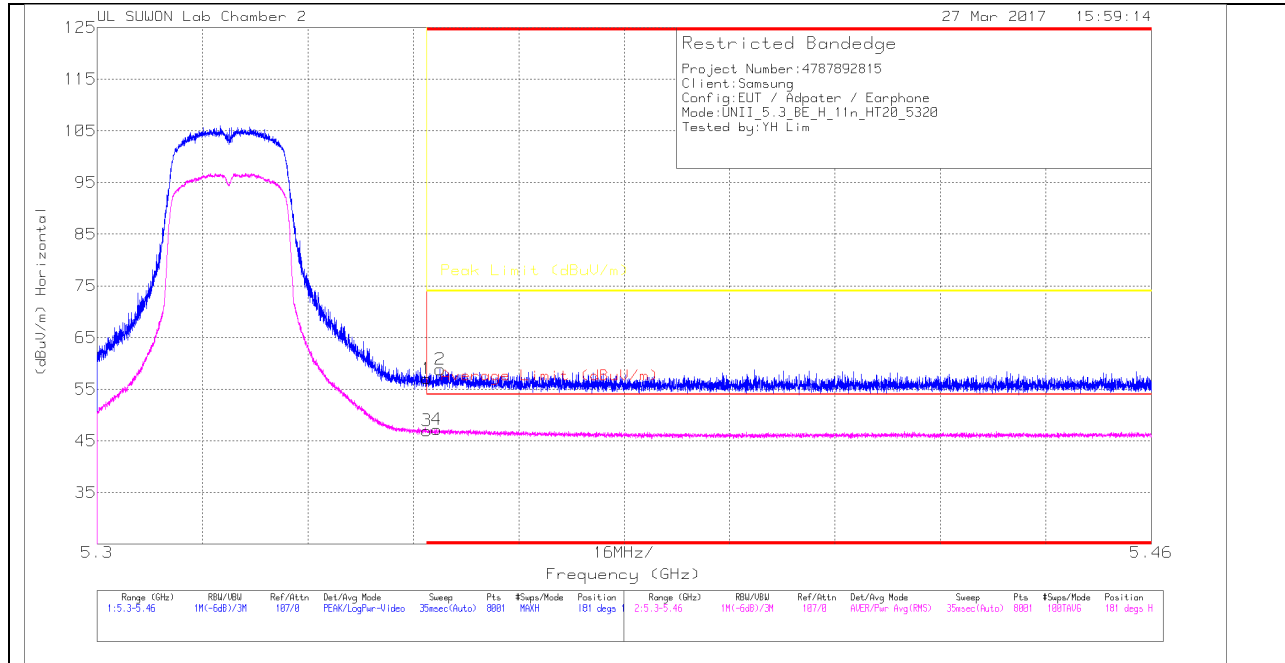
ADR - U-NII AD primary method, RMS average

10.2.2.

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

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

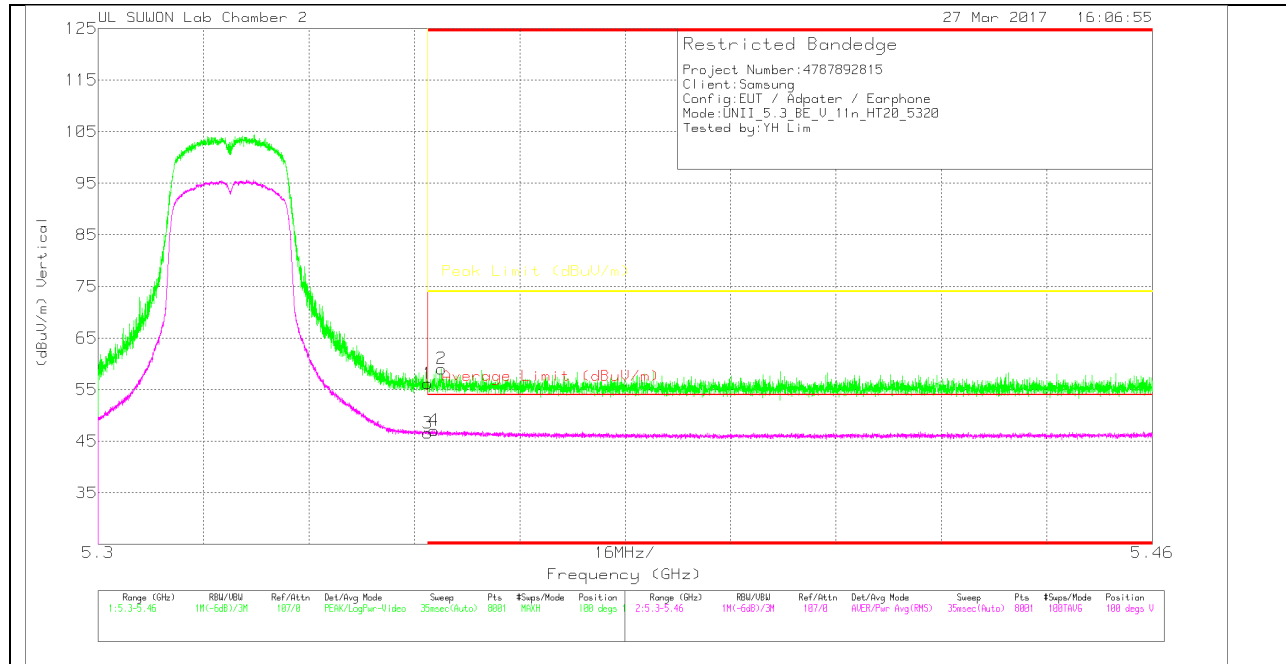
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	37.85	Pk	34.4	-15.2	0	57.05	-	-	74	-16.95	181	127	H
2	* 5.352	39.64	Pk	34.4	-15.2	0	58.84	-	-	74	-15.16	181	127	H
3	* 5.35	27.5	RMS	34.4	-15.2	.3	47	54	-7	-	-	181	127	H
4	* 5.352	27.73	RMS	34.4	-15.2	.3	47.23	54	-6.77	-	-	181	127	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 5.35	36.97	Pk	34.4	-15.2	0	56.17	-	-	74	-17.83	100	108	V
2	* 5.352	39.86	Pk	34.4	-15.2	0	59.06	-	-	74	-14.94	100	108	V
3	* 5.35	27.1	RMS	34.4	-15.2	.3	46.6	54	-7.4	-	-	100	108	V
4	* 5.351	27.61	RMS	34.4	-15.2	.3	47.11	54	-6.89	-	-	100	108	V

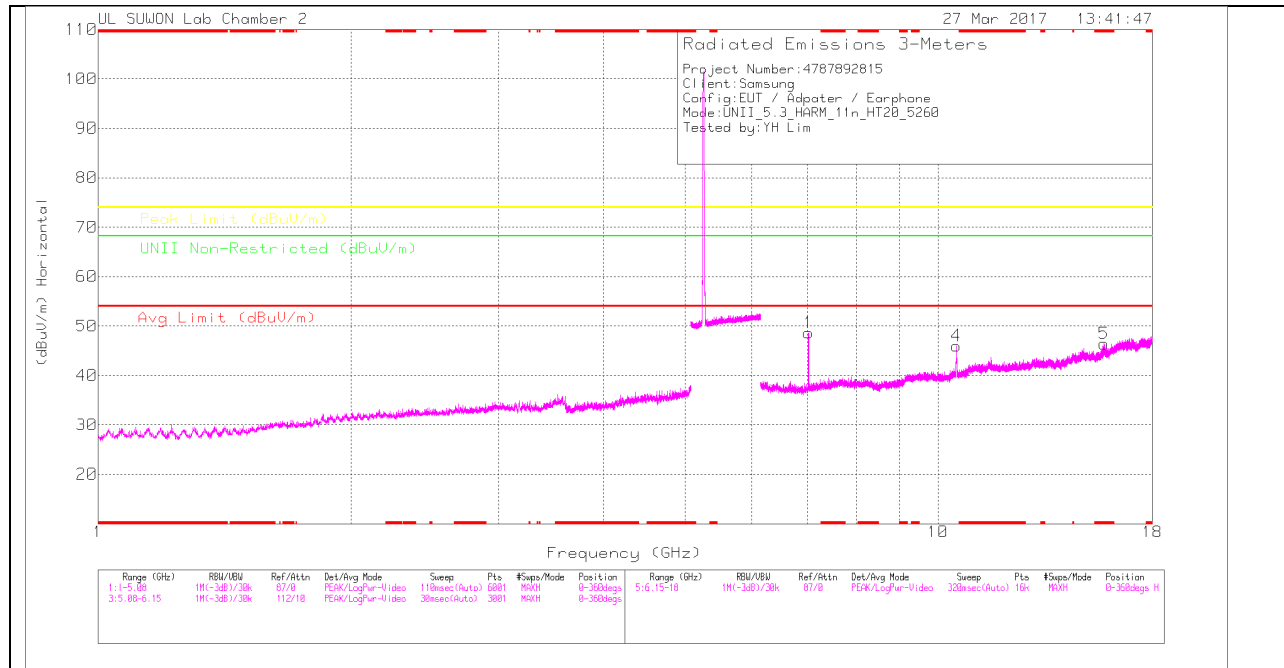
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

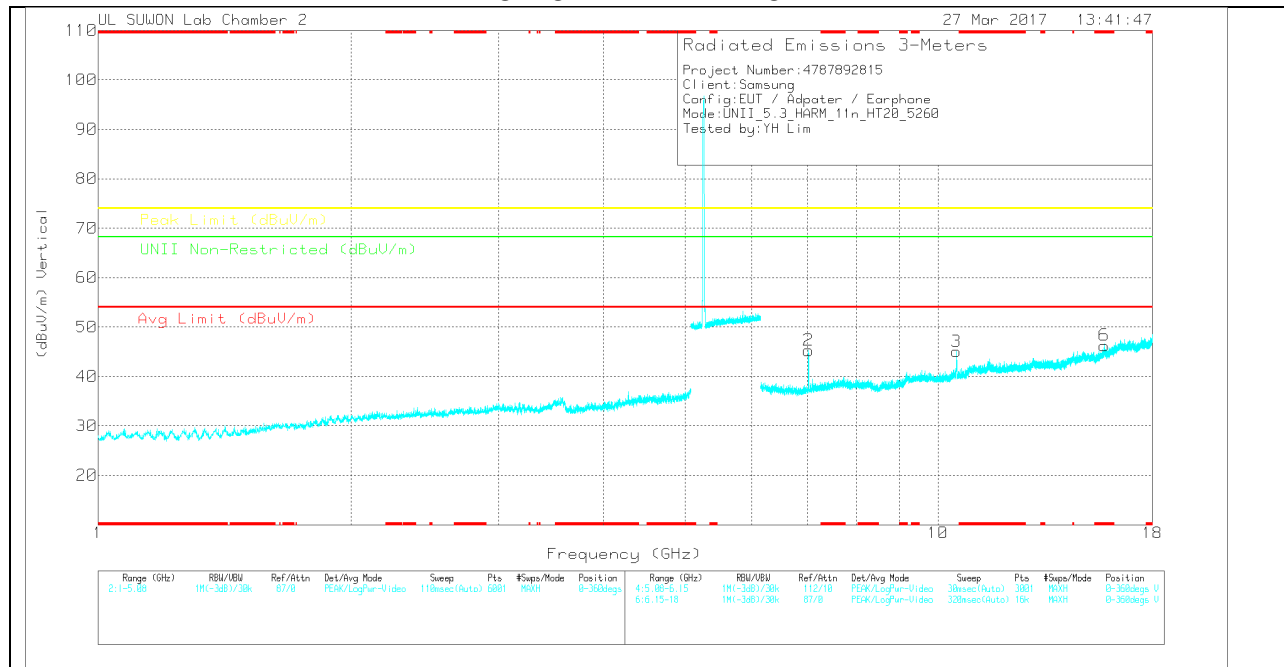
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117/0016 8724_150 619	6GHz_HP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.014	33.33	PK	35.6	-20.3	0	48.63	-	-	-	-	68.2	-19.57	0-360	250	H
4	10.519	24.88	PK	37.7	-16.6	0	45.98	-	-	-	-	68.2	-22.22	0-360	150	H
5	* 15.773	21.03	PK	40.2	-14.8	0	46.43	-	-	74	-27.57	-	-	0-360	150	H
2	7.013	29.97	PK	35.6	-20.3	0	45.27	-	-	-	-	68.2	-22.93	0-360	150	V
3	10.522	23.98	PK	37.7	-16.6	0	45.08	-	-	-	-	68.2	-23.12	0-360	150	V
6	* 15.777	20.78	PK	40.2	-14.7	0	46.28	-	-	74	-27.72	-	-	0-360	150	V

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

PK – Peak Detector

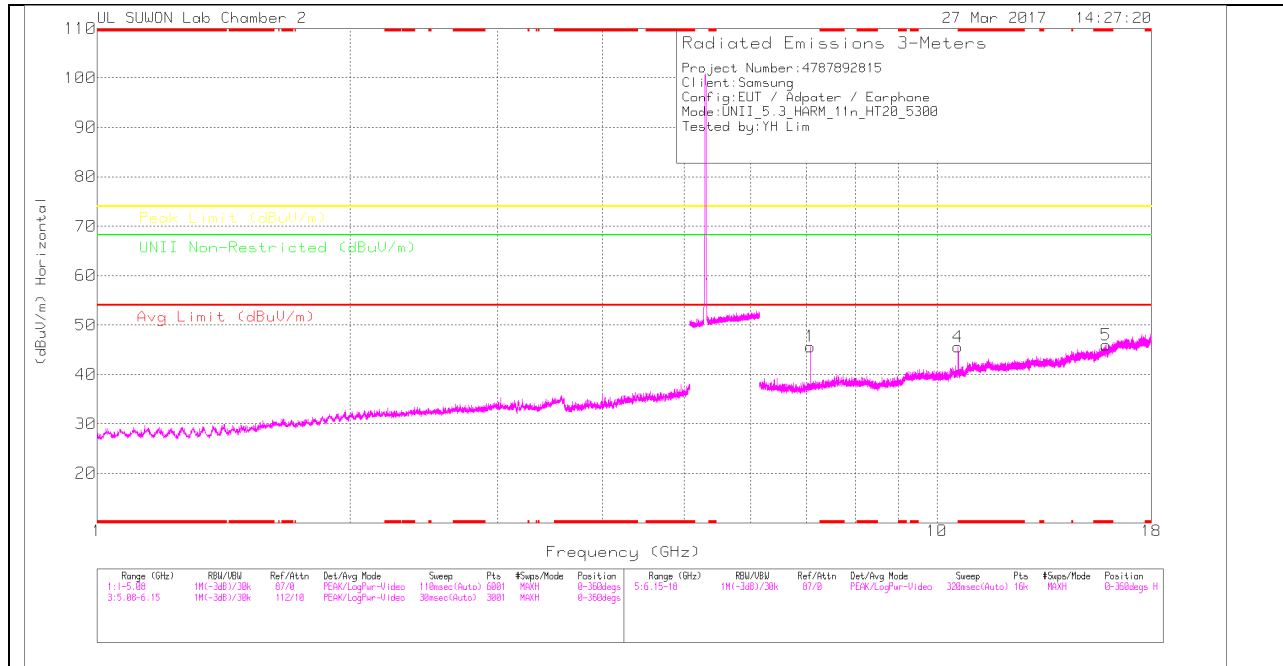
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117/001687 24_150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7.013	37.93	PK-U	35.6	-20.3	0	53.23	-	-	-	-	68.2	-14.97	105	144	H
7.014	36.1	PK-U	35.6	-20.3	0	51.4	-	-	-	-	68.2	-16.8	67	132	V
10.521	34.81	PK-U	37.7	-16.6	0	55.91	-	-	-	-	68.2	-12.29	186	133	V
10.518	36.48	PK-U	37.7	-16.6	0	57.58	-	-	-	-	68.2	-10.62	202	137	H

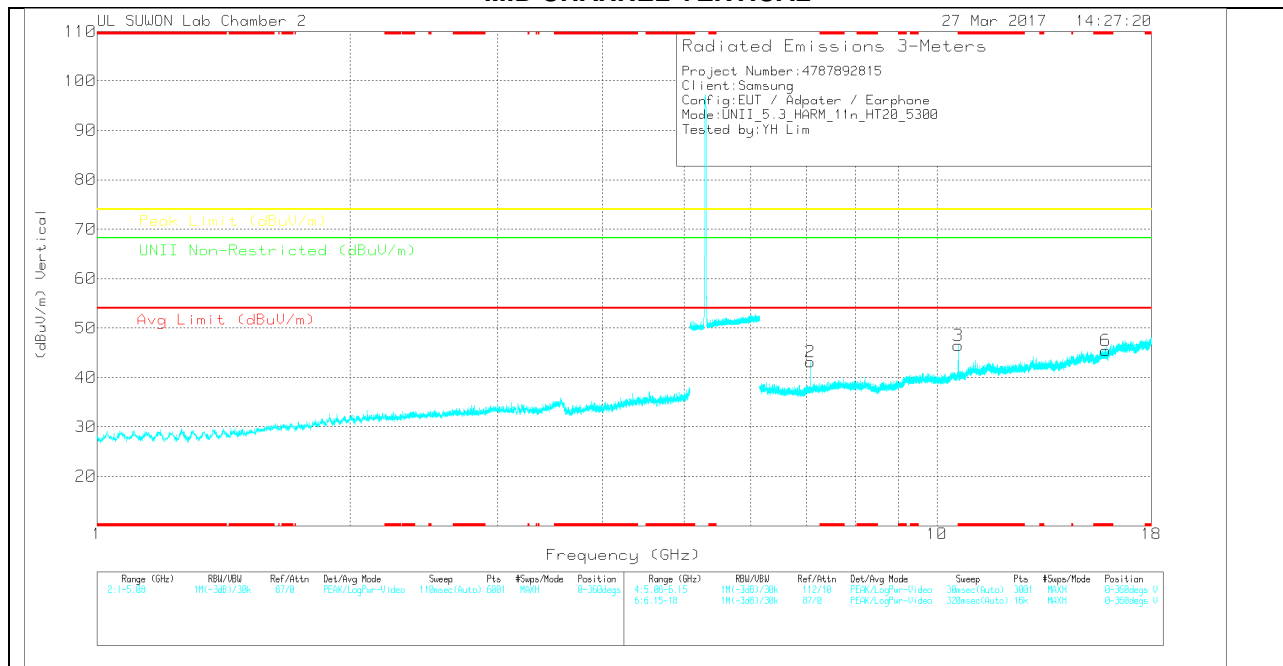
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

MID CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[0016 8724]_150 619	6GHz_HP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.066	30.54	PK	35.6	-20.5	0	45.64	-	-	-	-	68.2	-22.56	0-360	250	H
4	10.599	24.39	PK	37.8	-16.6	0	45.59	-	-	-	-	68.2	-22.61	0-360	150	H
5	* 15.904	20.25	PK	40.4	-14.7	0	45.95	-	-	74	-28.05	-	-	0-360	250	H
2	7.066	28.03	PK	35.6	-20.5	0	43.13	-	-	-	-	68.2	-25.07	0-360	150	V
3	* 10.601	25.26	PK	37.8	-16.6	0	46.46	-	-	74	-27.54	-	-	0-360	150	V
6	* 15.886	19.86	PK	40.4	-14.8	0	45.46	-	-	74	-28.54	-	-	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

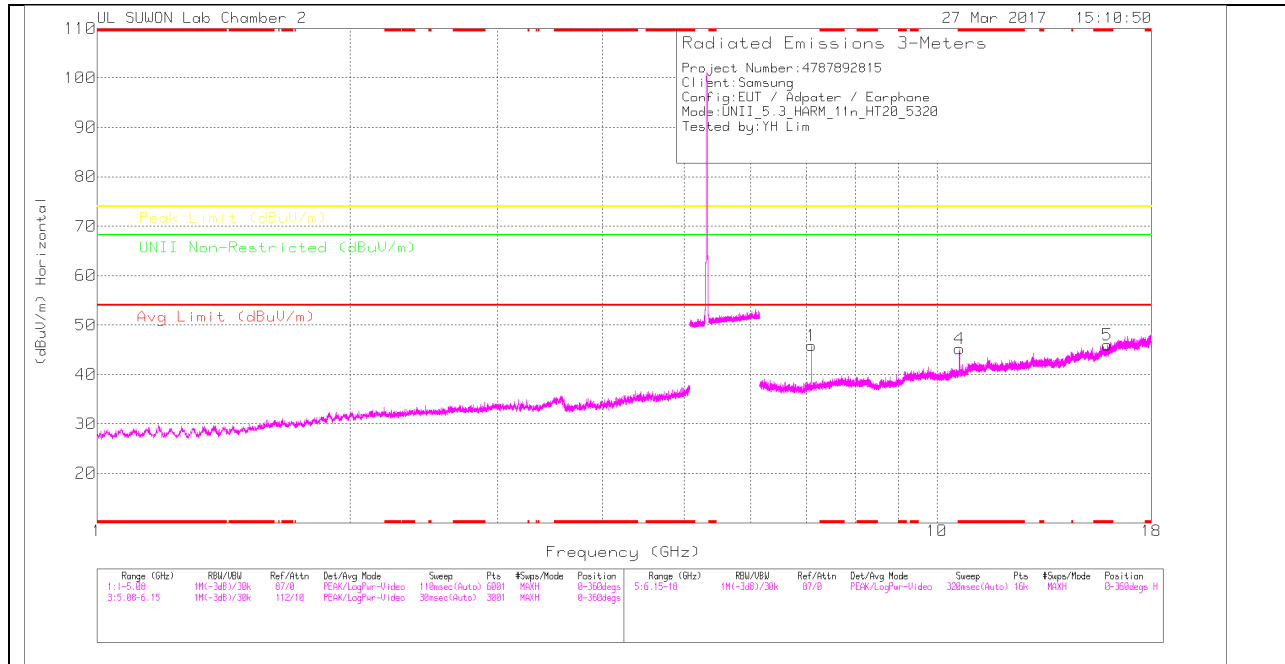
Frequency (GHz)	Meter Reading (dBuV)	Det	3117[001687 24]_150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7.067	37.26	PK-U	35.6	-20.5	0	52.36	-	-	-	-	68.2	-15.84	106	133	H
7.067	35.31	PK-U	35.6	-20.6	0	50.31	-	-	-	-	68.2	-17.89	84	126	V
* 10.603	35.25	PK-U	37.8	-16.7	0	56.35	-	-	74	-17.65	-	-	187	145	V
* 10.601	22.2	ADR	37.8	-16.6	.3	43.7	54	-10.3	-	-	-	-	187	145	V
* 10.604	35.42	PK-U	37.8	-16.7	0	56.52	-	-	74	-17.48	-	-	121	222	H
* 10.6	22.29	ADR	37.8	-16.6	.3	43.79	54	-10.21	-	-	-	-	121	222	H

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

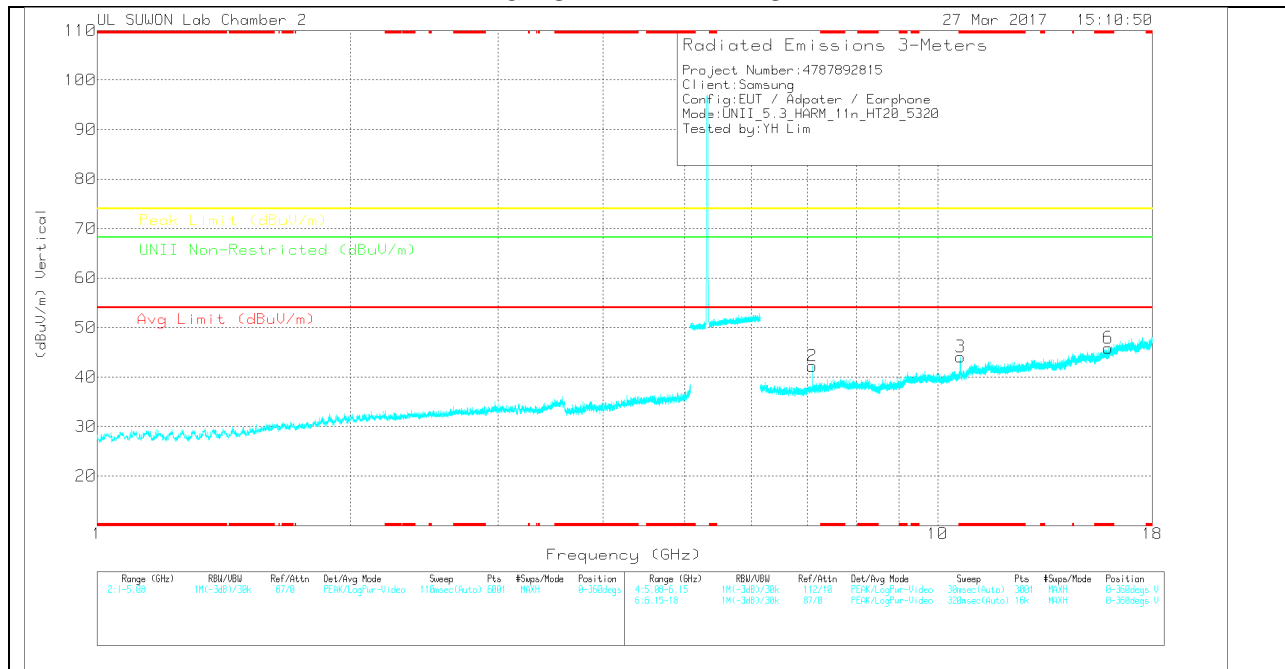
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[0016 8724], 150 619	6GHz_HP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.093	31.23	PK	35.6	-21	0	45.83	-	-	-	-	68.2	-22.37	0-360	250	H
4	* 10.637	23.99	PK	37.8	-16.6	0	45.19	-	-	74	-28.81	-	-	0-360	150	H
5	* 15.959	19.96	PK	40.4	-14.4	0	45.96	-	-	74	-28.04	-	-	0-360	250	H
2	7.093	27.63	PK	35.6	-21	0	42.23	-	-	-	-	68.2	-25.97	0-360	150	V
3	* 10.641	22.89	PK	37.8	-16.6	0	44.09	-	-	74	-29.91	-	-	0-360	150	V
6	* 15.959	19.88	PK	40.4	-14.4	0	45.88	-	-	74	-28.12	-	-	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117[001687 24], 150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7.093	37.32	PK-U	35.6	-21.1	0	51.82	-	-	-	-	68.2	-16.38	104	140	H
7.093	35.8	PK-U	35.6	-21	0	50.4	-	-	-	-	68.2	-17.8	78	117	V
* 10.64	35.02	PK-U	37.8	-16.6	0	56.22	-	-	74	-17.78	-	-	189	137	V
* 10.639	22.26	ADR	37.8	-16.6	.3	43.76	54	-10.24	-	-	-	-	189	137	V
* 10.638	37.23	PK-U	37.8	-16.6	0	58.43	-	-	74	-15.57	-	-	187	147	H
* 10.641	21.01	ADR	37.8	-16.6	.3	42.51	54	-11.49	-	-	-	-	187	147	H

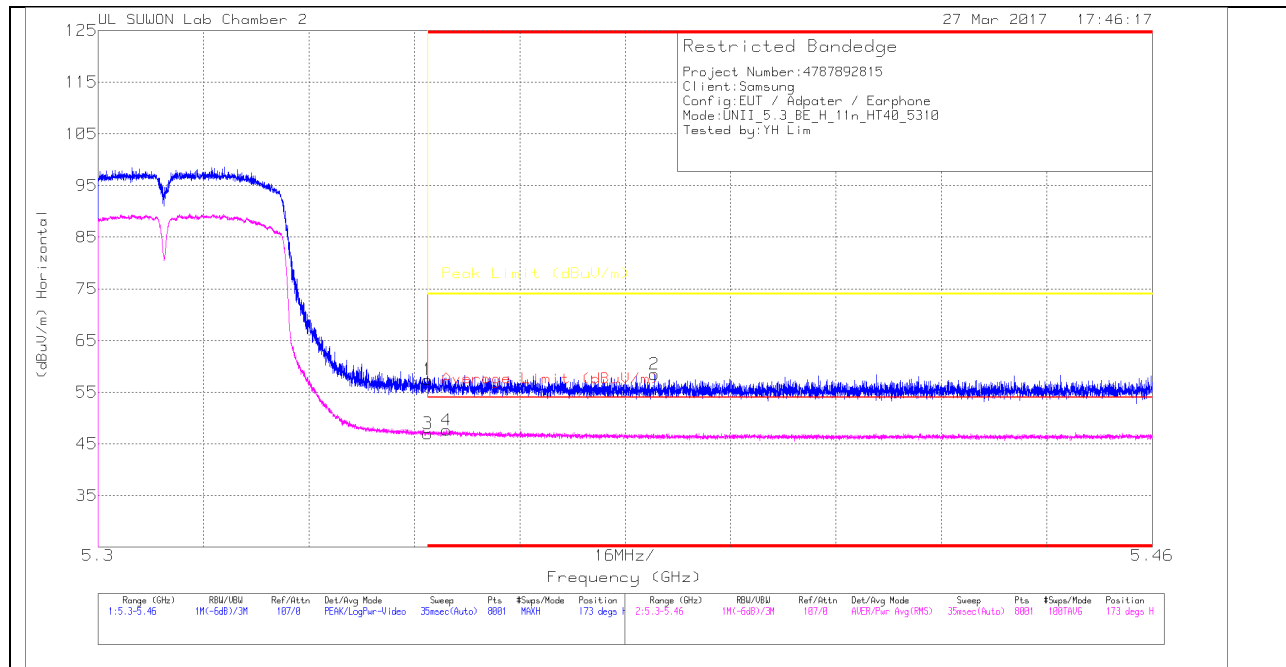
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

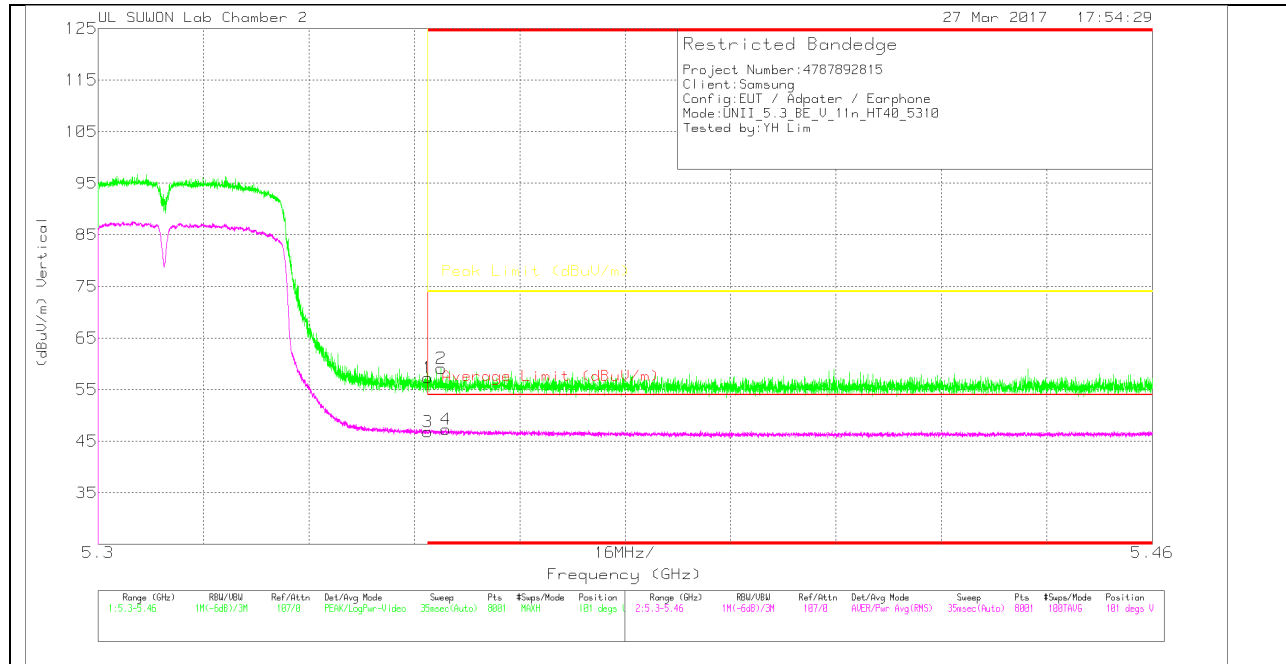
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	38.24	Pk	34.4	-15.2	0	57.44	-	-	74	-16.56	173	151	H
2	* 5.384	39.28	Pk	34.4	-15.2	0	58.48	-	-	74	-15.52	173	151	H
3	* 5.35	27.24	RMS	34.4	-15.2	.56	47	54	-7	-	-	173	151	H
4	* 5.353	27.93	RMS	34.4	-15.2	.56	47.69	54	-6.31	-	-	173	151	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 5.35	38.1	Pk	34.4	-15.2	0	57.3	-	-	74	-16.7	101	129	V
2	* 5.352	39.9	Pk	34.4	-15.2	0	59.1	-	-	74	-14.9	101	129	V
3	* 5.35	27.07	RMS	34.4	-15.2	.56	46.83	54	-7.17	-	-	101	129	V
4	* 5.353	27.56	RMS	34.4	-15.2	.56	47.32	54	-6.68	-	-	101	129	V

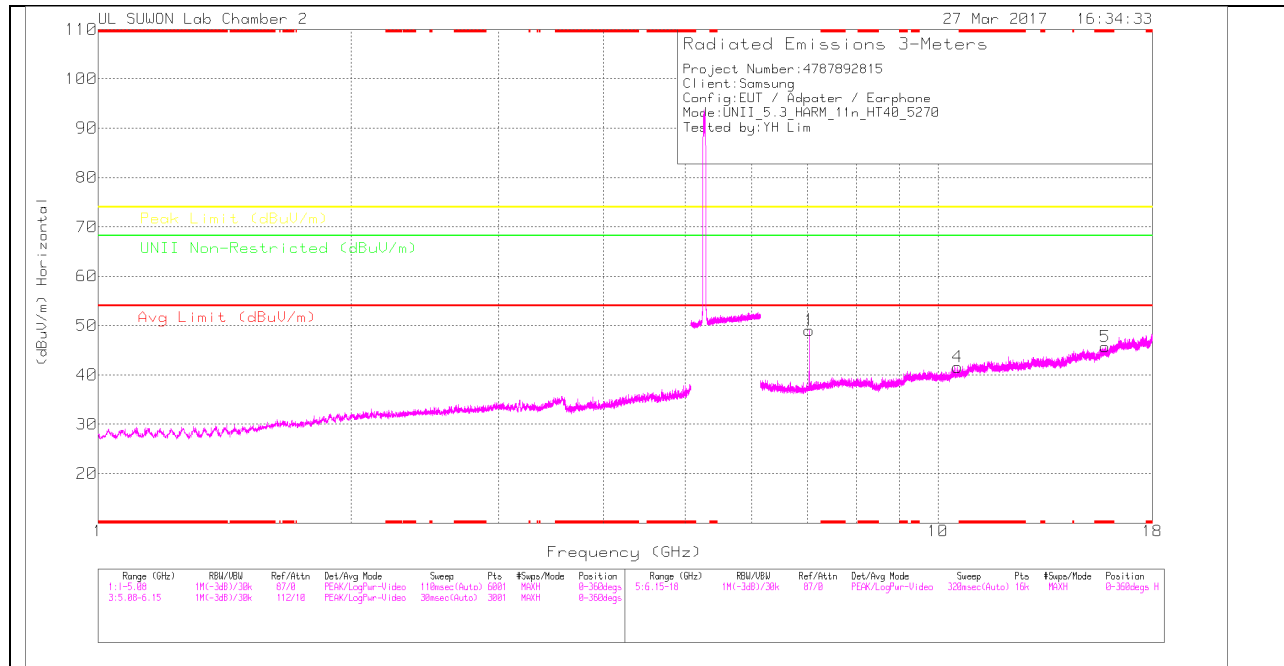
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

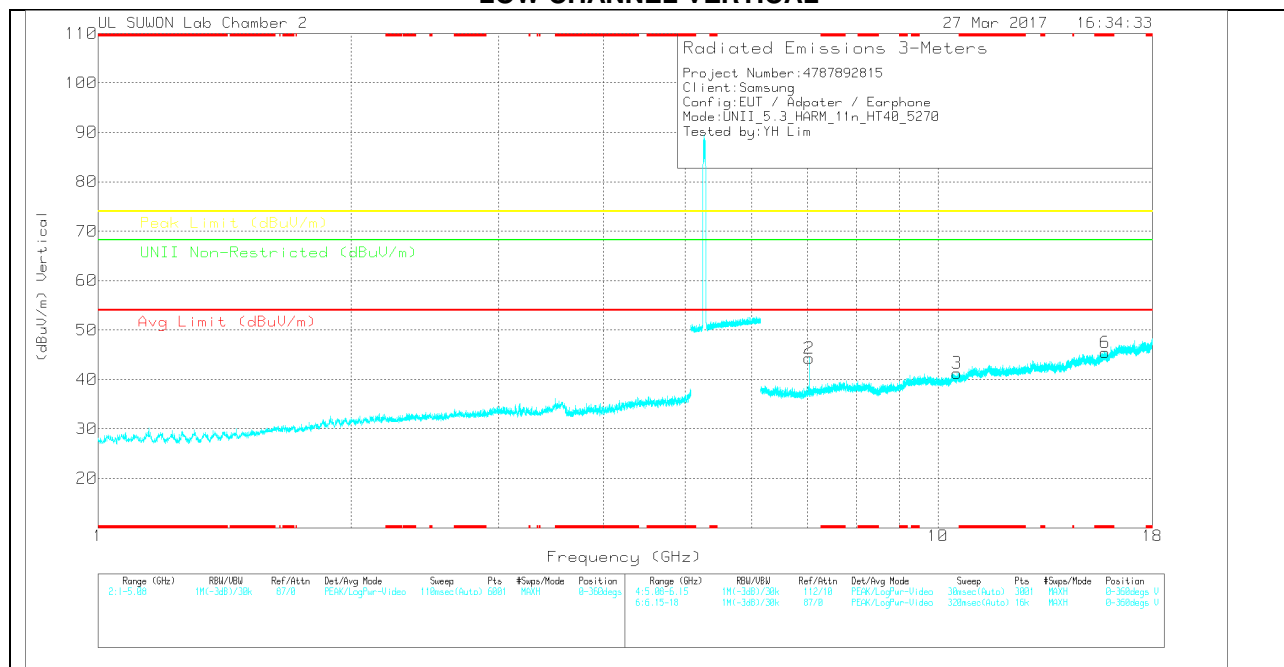
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117/0016 8724], 150 619	6GHz_HP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.026	33.63	PK	35.6	-20.2	0	49.03	-	-	-	-	68.2	-19.17	0-360	250	H
4	10.55	20.38	PK	37.7	-16.5	0	41.58	-	-	-	-	68.2	-26.62	0-360	250	H
5	* 15.81	20.09	PK	40.3	-14.7	0	45.69	-	-	74	-28.31	-	-	0-360	150	H
2	7.026	28.87	PK	35.6	-20.2	0	44.27	-	-	-	-	68.2	-23.93	0-360	150	V
3	10.534	20.17	PK	37.7	-16.6	0	41.27	-	-	-	-	68.2	-26.93	0-360	150	V
6	* 15.807	19.84	PK	40.3	-14.7	0	45.44	-	-	74	-28.56	-	-	0-360	250	V

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

PK – Peak detector

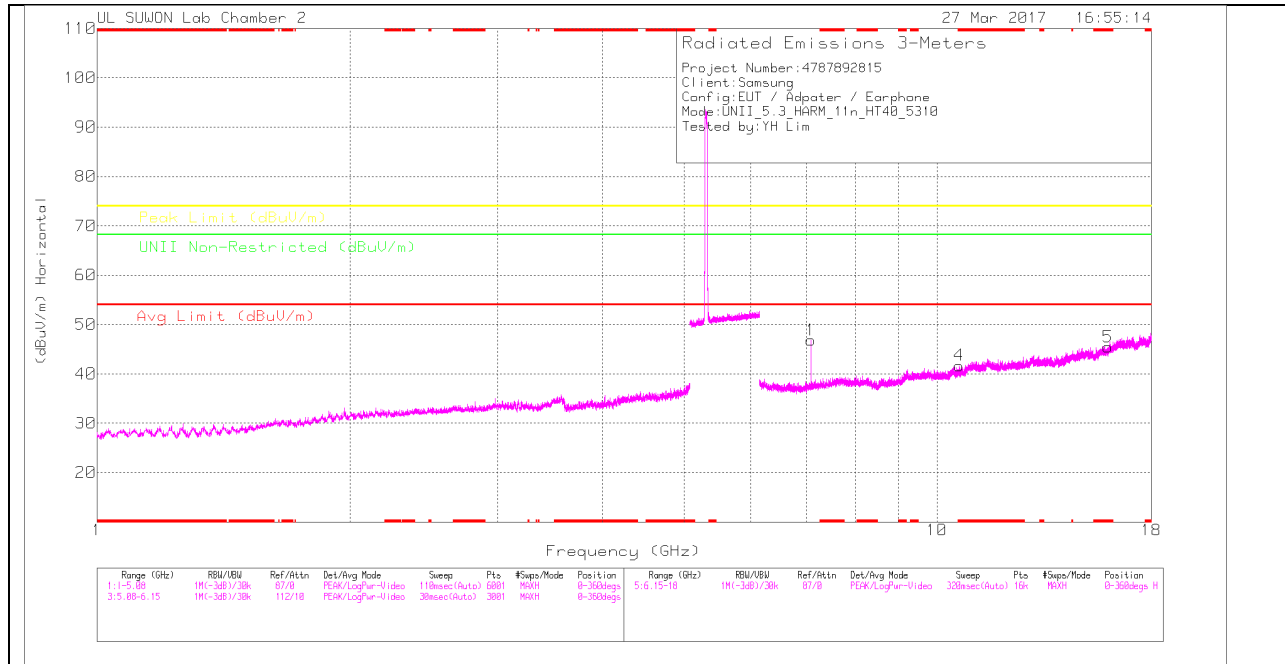
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117/001687 24], 150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7.027	38.1	PK-U	35.6	-20.2	0	53.5	-	-	-	-	68.2	-14.7	101	139	H
7.027	36.67	PK-U	35.6	-20.2	0	52.07	-	-	-	-	68.2	-16.13	83	118	V

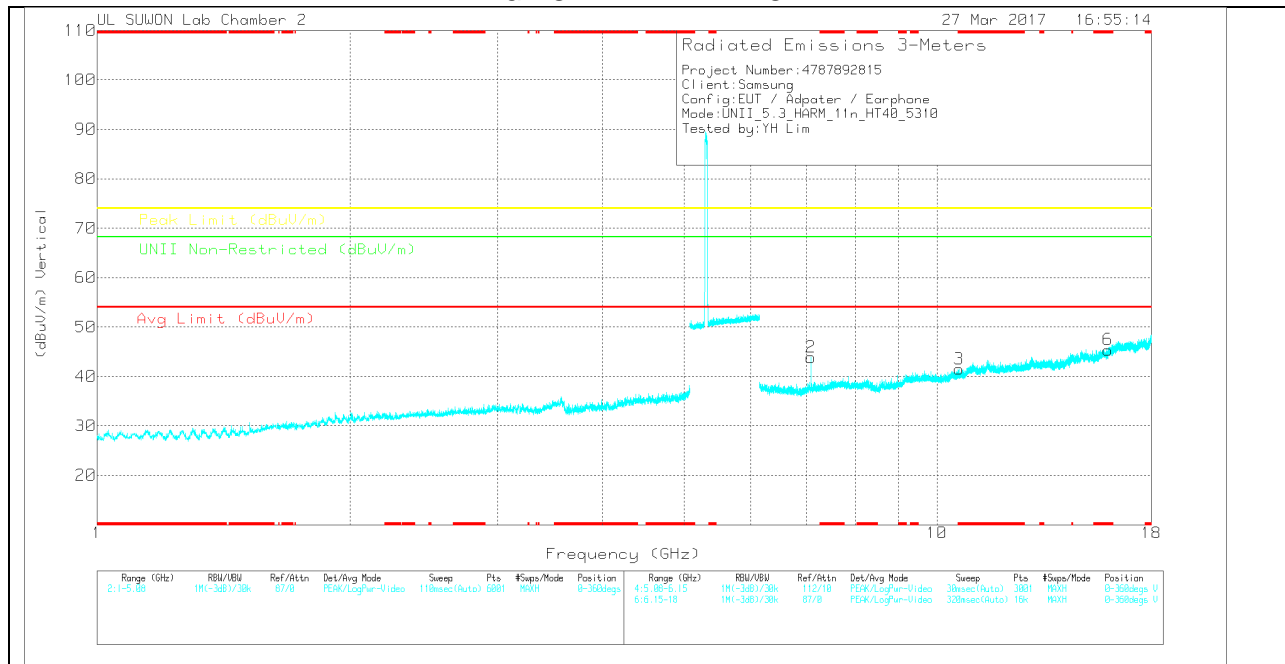
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

HIGH CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117/0016 8724_150 619	6GHz_HP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.079	31.92	PK	35.6	-20.7	0	46.82	-	-	-	-	68.2	-21.38	0-360	150	H
4	* 10.626	20.6	PK	37.8	-16.7	0	41.7	-	-	74	-32.3	-	-	0-360	150	H
5	* 15.986	19.24	PK	40.5	-14.3	0	45.44	-	-	74	-28.56	-	-	0-360	150	H
2	7.079	28.97	PK	35.6	-20.7	0	43.87	-	-	-	-	68.2	-24.33	0-360	150	V
3	* 10.622	20.38	PK	37.8	-16.7	0	41.48	-	-	74	-32.52	-	-	0-360	150	V
6	* 15.971	19.28	PK	40.5	-14.4	0	45.38	-	-	74	-28.62	-	-	0-360	150	V

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

PK – Peak detector

Radiated Emissions

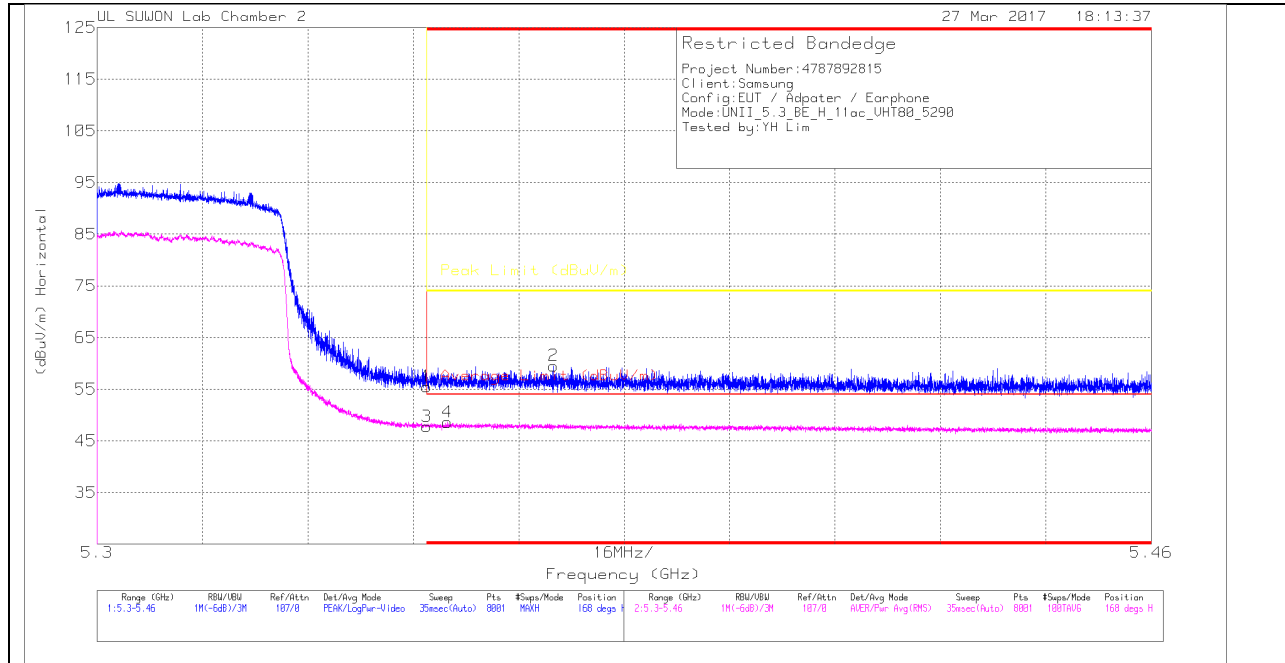
Frequency (GHz)	Meter Reading (dBuV)	Det	3117/001687 24_150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7.08	37.38	PK-U	35.6	-20.7	0	52.28	-	-	-	-	68.2	-15.92	106	127	H
7.08	37.04	PK-U	35.6	-20.7	0	51.94	-	-	-	-	68.2	-16.26	81	130	V

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

PK-U - U-NII: Maximum Peak

10.2.4.TX ABOVE 1GHz 802.11ac VHT80 MODE IN THE 5.3GHz BAND RESTRICTED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

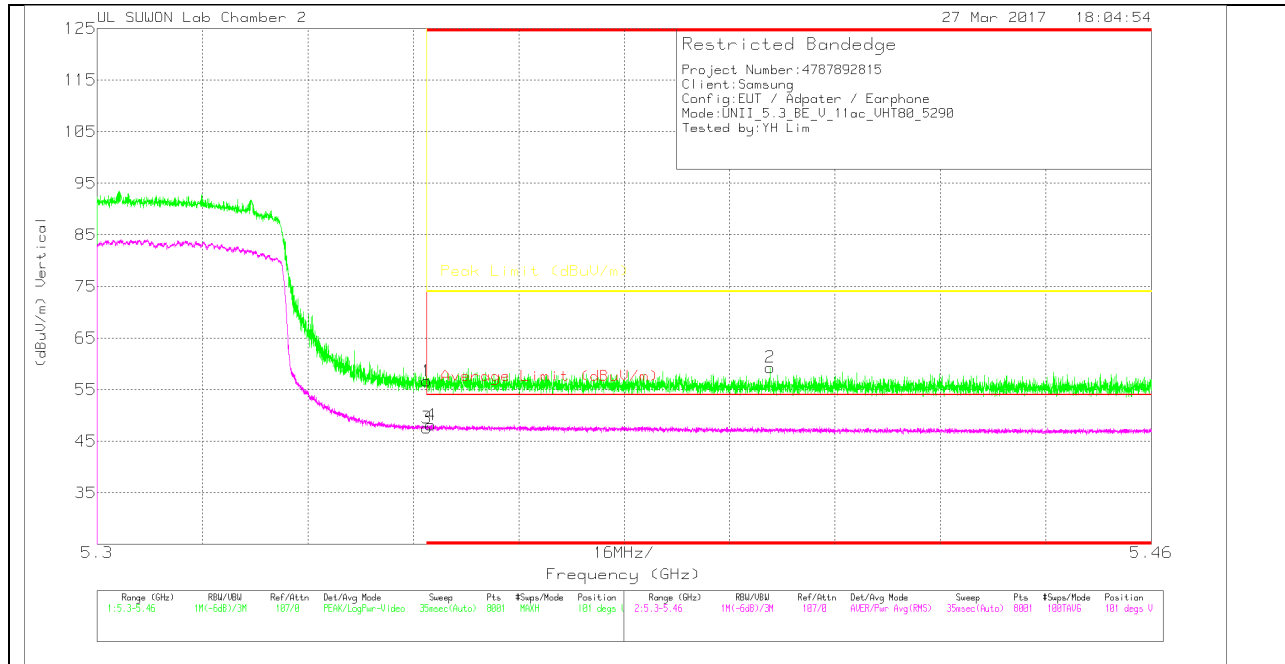
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	36.33	Pk	34.4	-15.2	0	55.53	-	-	74	-18.47	168	150	H
2	* 5.369	40.35	Pk	34.4	-15.2	0	59.55	-	-	74	-14.45	168	150	H
3	* 5.35	27.54	RMS	34.4	-15.2	1.05	47.79	54	-6.21	-	-	168	150	H
4	* 5.353	28.36	RMS	34.4	-15.2	1.05	48.61	54	-5.39	-	-	168	150	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(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	37.49	Pk		-15.2	0	56.69	-	-	74	-17.31	101	110	V
2	* 5.402	40.1	Pk		-15.2	0	59.3	-	-	74	-14.7	101	110	V
3	* 5.35	27.33	RMS		-15.2	1.05	47.58	54	-6.42	-	-	101	110	V
4	* 5.351	27.91	RMS		-15.2	1.05	48.16	54	-5.84	-	-	101	110	V

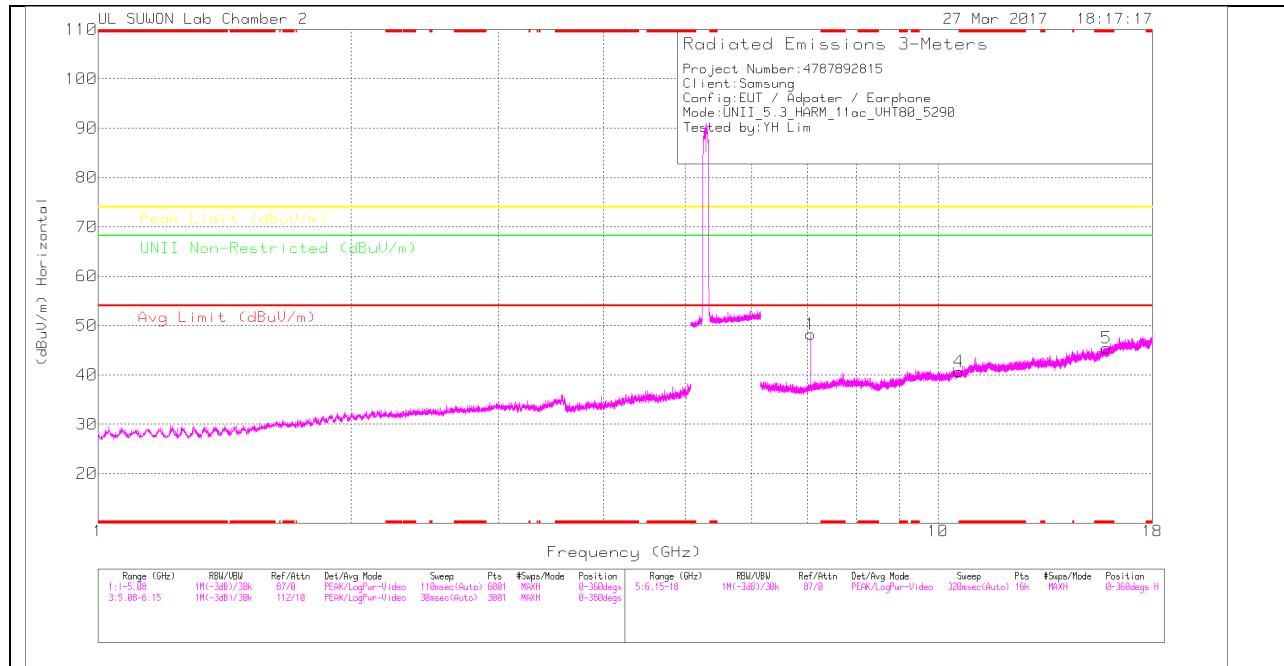
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

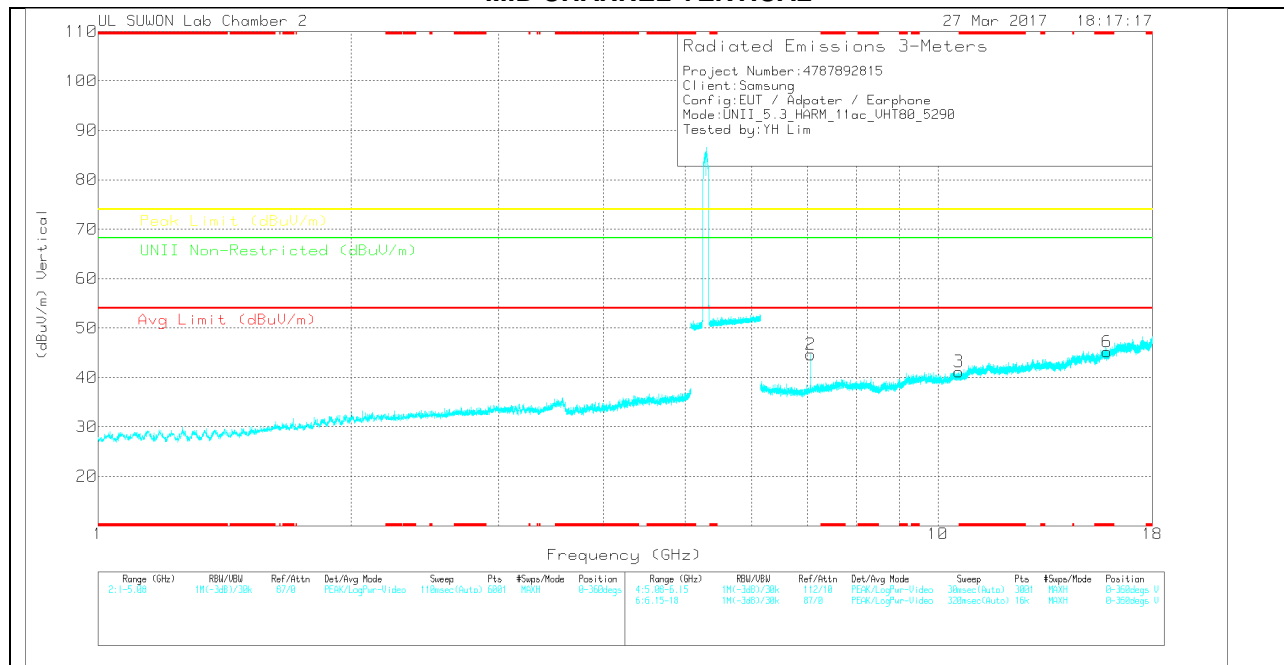
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117/0016 8724], 150 619	6GHz_HP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.054	32.92	PK	35.6	-20.3	0	48.22	-	-	-	-	68.2	-19.98	0-360	250	H
4	10.594	19.45	PK	37.8	-16.6	0	40.65	-	-	-	-	68.2	-27.55	0-360	150	H
5	* 15.878	19.83	PK	40.3	-14.7	0	45.43	-	-	74	-28.57	-	-	0-360	250	H
2	7.053	29.35	PK	35.6	-20.3	0	44.65	-	-	-	-	68.2	-23.55	0-360	150	V
3	10.596	19.96	PK	37.8	-16.6	0	41.16	-	-	-	-	68.2	-27.04	0-360	250	V
6	* 15.904	19.47	PK	40.4	-14.7	0	45.17	-	-	74	-28.83	-	-	0-360	150	V

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

PK – Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117/001687 24], 150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7.053	37.64	PK-U	35.6	-20.3	0	52.94	-	-	-	-	68.2	-15.26	104	122	H
7.053	36.98	PK-U	35.6	-20.3	0	52.28	-	-	-	-	68.2	-15.92	78	127	V

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

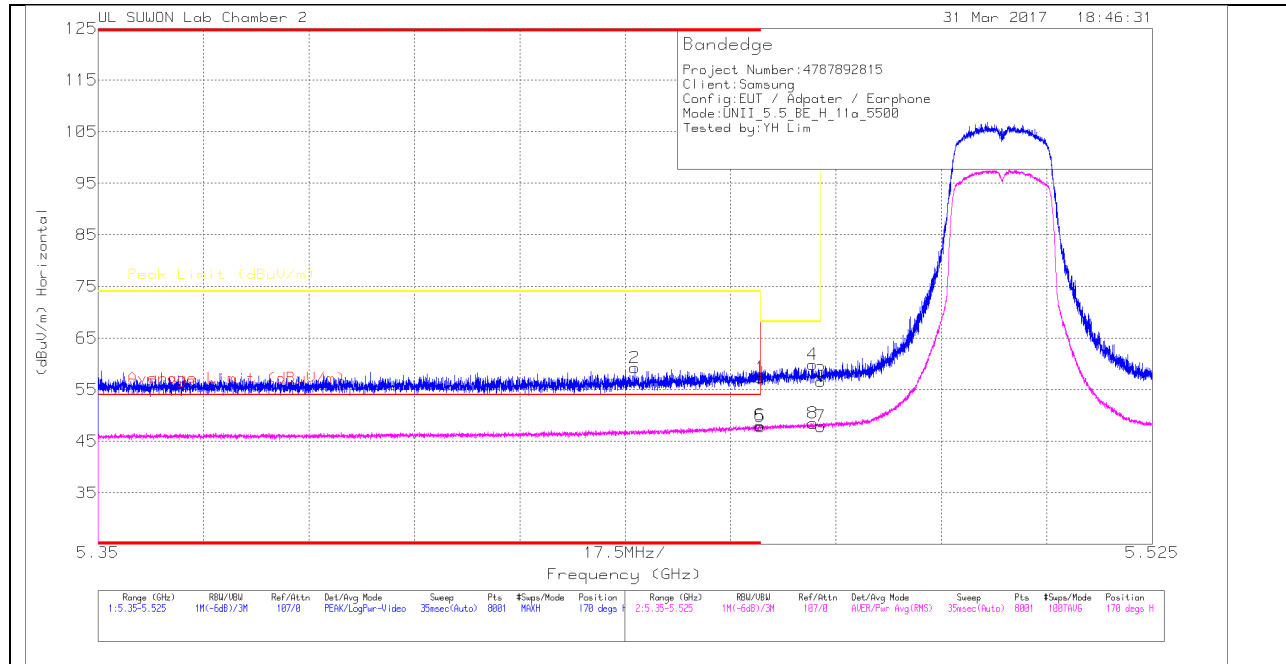
PK-U - U-NII: Maximum Peak

10.3. 5.5-5.6 GHz

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

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

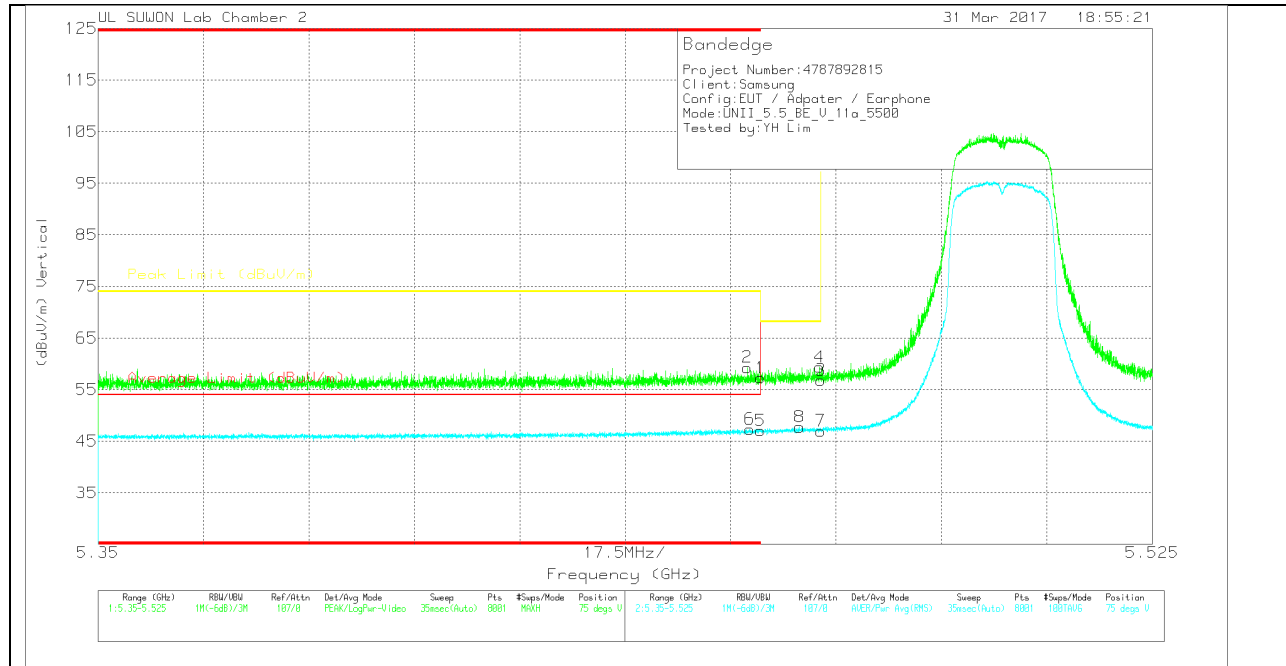
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	37.82	Pk		34.5	-15	57.32	-	-	74	-16.68	170	183	H
2	* 5.439	39.83	Pk		34.5	-15.1	59.23	-	-	74	-14.77	170	183	H
3	5.47	37.09	Pk		34.5	-15	56.59	-	-	68.2	-11.61	170	183	H
4	5.469	40.37	Pk		34.5	-15	59.87	-	-	68.2	-8.33	170	183	H
5	* 5.46	28.06	RMS		34.5	-15	47.84	54	-6.16	-	-	170	183	H
6	* 5.46	28.33	RMS		34.5	-15	48.11	54	-5.89	-	-	170	183	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	37.77	Pk		-15	0	57.27	-	-	74	-16.73	75	133	V
2	* 5.458	39.91	Pk		-15.1	0	59.31	-	-	74	-14.69	75	133	V
3	5.47	37.34	Pk		-15	0	56.84	-	-	68.2	-11.36	75	133	V
4	5.47	39.86	Pk		-15	0	59.36	-	-	68.2	-8.84	75	133	V
5	* 5.46	27.28	RMS		-15	.28	47.06	54	-6.94	-	-	75	133	V
6	* 5.458	27.69	RMS		-15.1	.28	47.37	54	-6.63	-	-	75	133	V

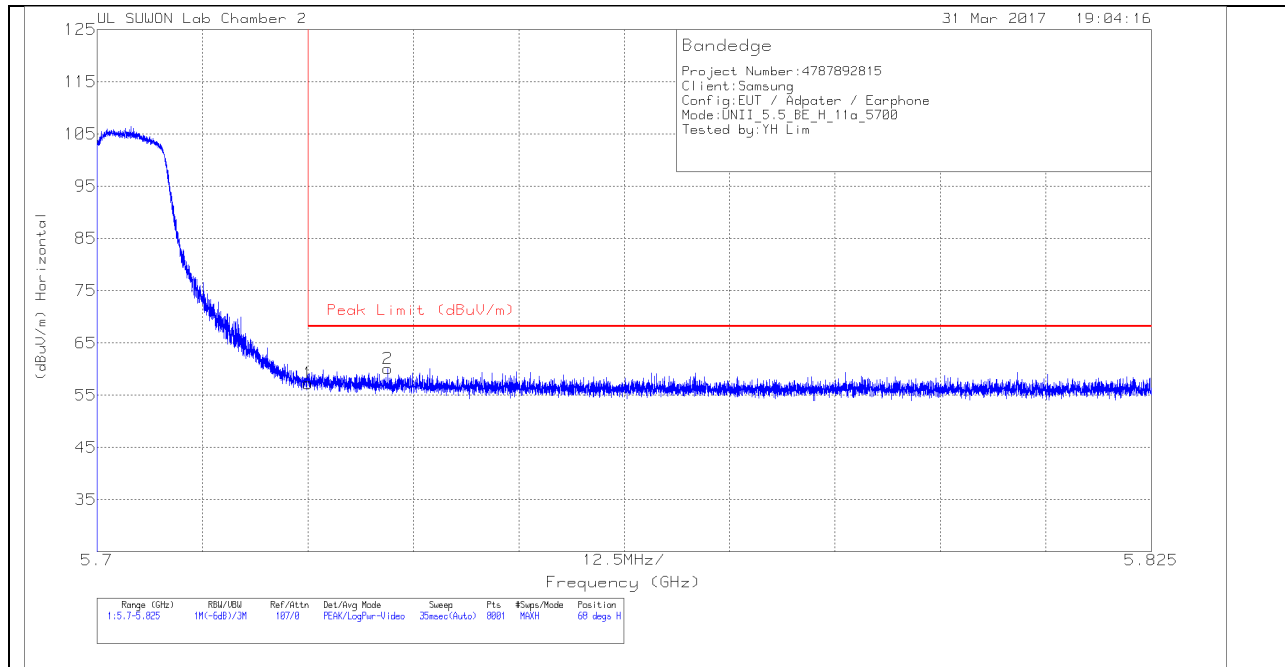
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



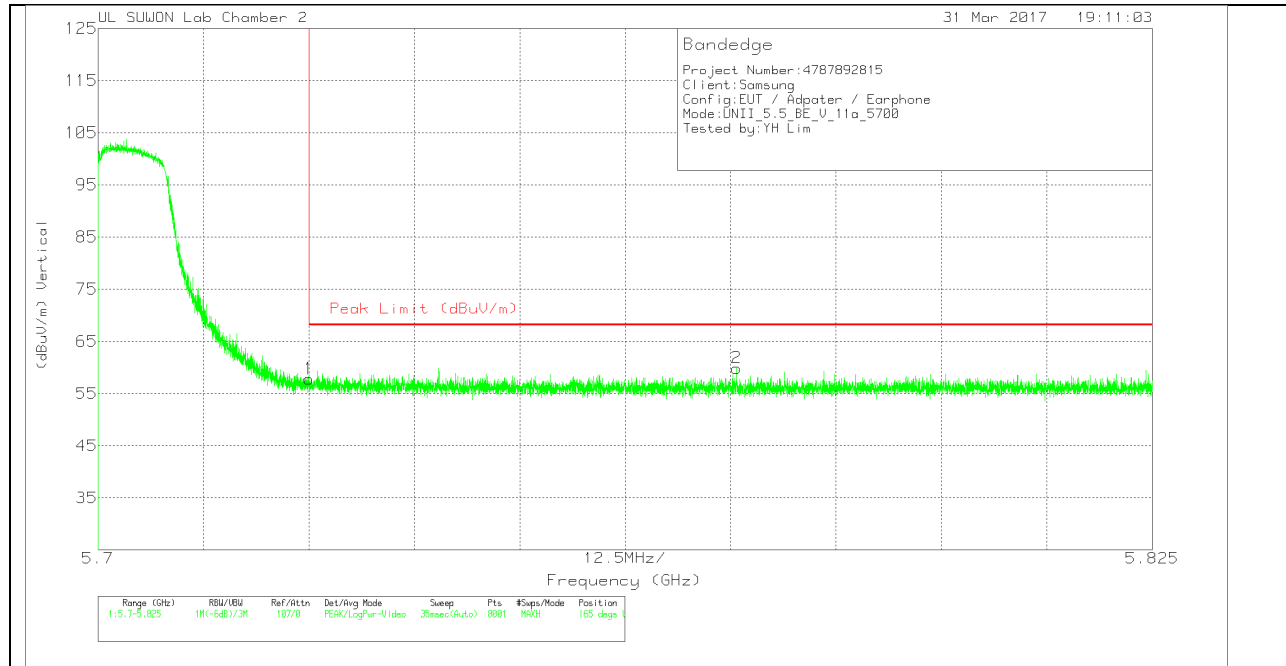
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.06	Pk	34.7	-14.5	0	57.26	68.2	-10.94	68	311	H
2	5.734	39.78	Pk	34.7	-14.4	0	60.08	68.2	-8.12	68	311	H

Pk - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

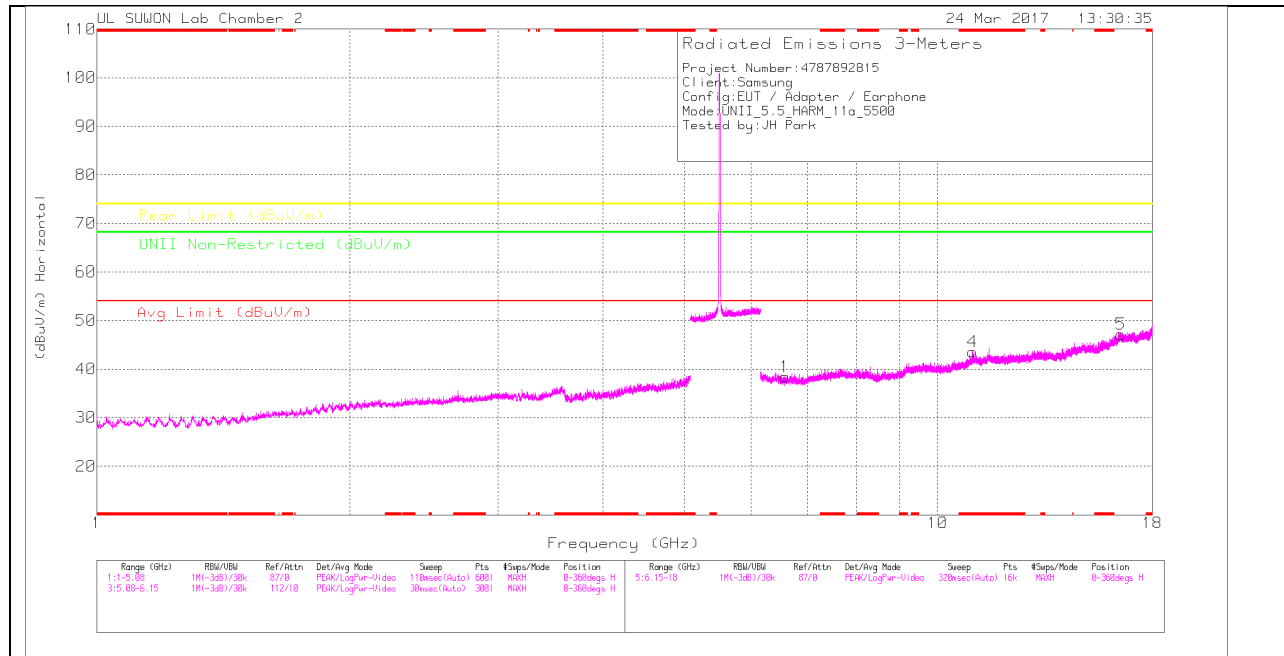
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.62	Pk	34.7	-14.5	0	57.82	68.2	-10.38	165	149	V
2	5.776	39.59	Pk	34.7	-14.4	0	59.89	68.2	-8.31	165	149	V

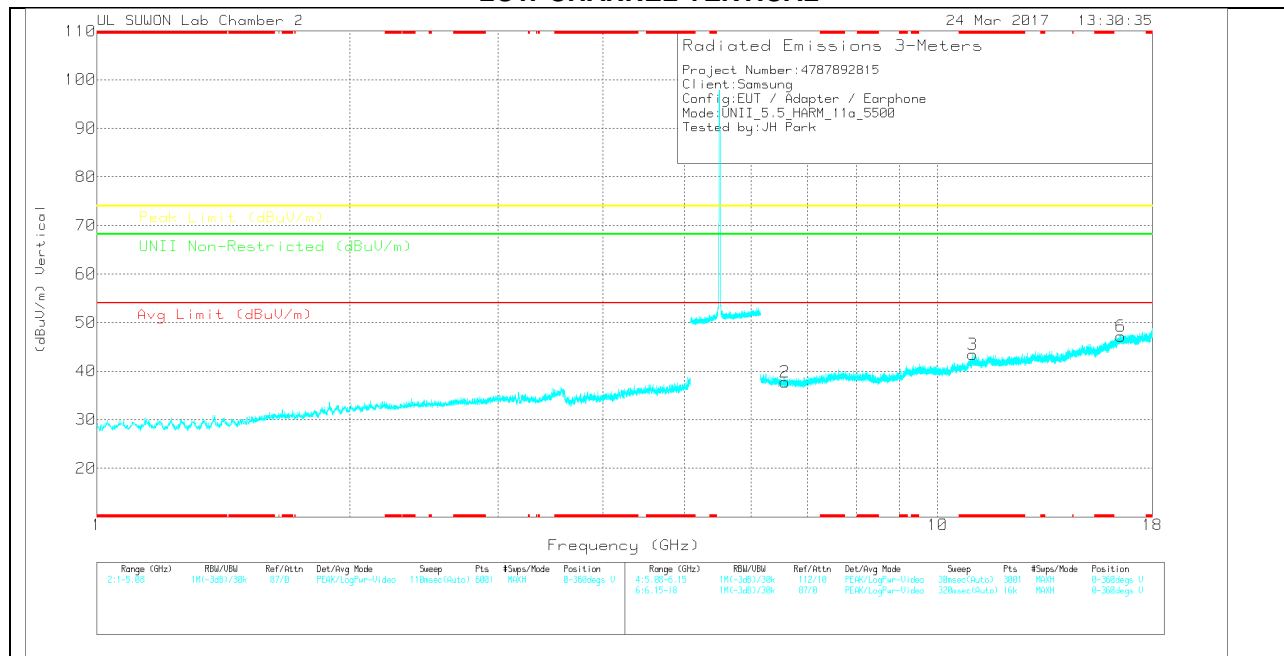
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

Trace Markers

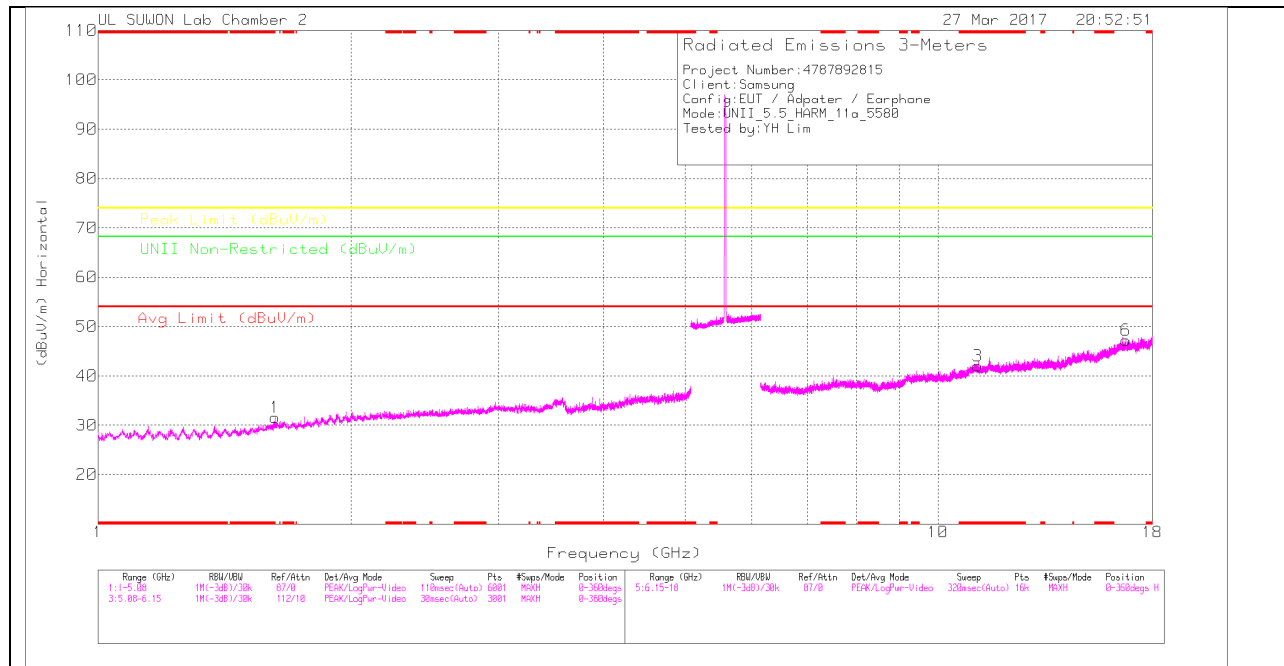
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117/0016 8724_150 619	6GHz_HP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.585	25.23	PK	35.3	-22.2	0	38.33	-	-	-	-	68.2	-29.87	0-360	250	H
4	* 11.004	21.54	PK	38	-16	0	43.54	-	-	74	-30.46	-	-	0-360	150	H
5	16.503	20.52	PK	41	-14.4	0	47.12	-	-	-	-	68.2	-21.08	0-360	250	H
2	6.585	24.61	PK	35.3	-22.2	0	37.71	-	-	-	-	68.2	-30.49	0-360	250	V
3	* 11.003	21.43	PK	38	-16	0	43.43	-	-	74	-30.57	-	-	0-360	150	V
6	16.5	20.63	PK	41	-14.4	0	47.23	-	-	-	-	68.2	-20.97	0-360	250	V

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

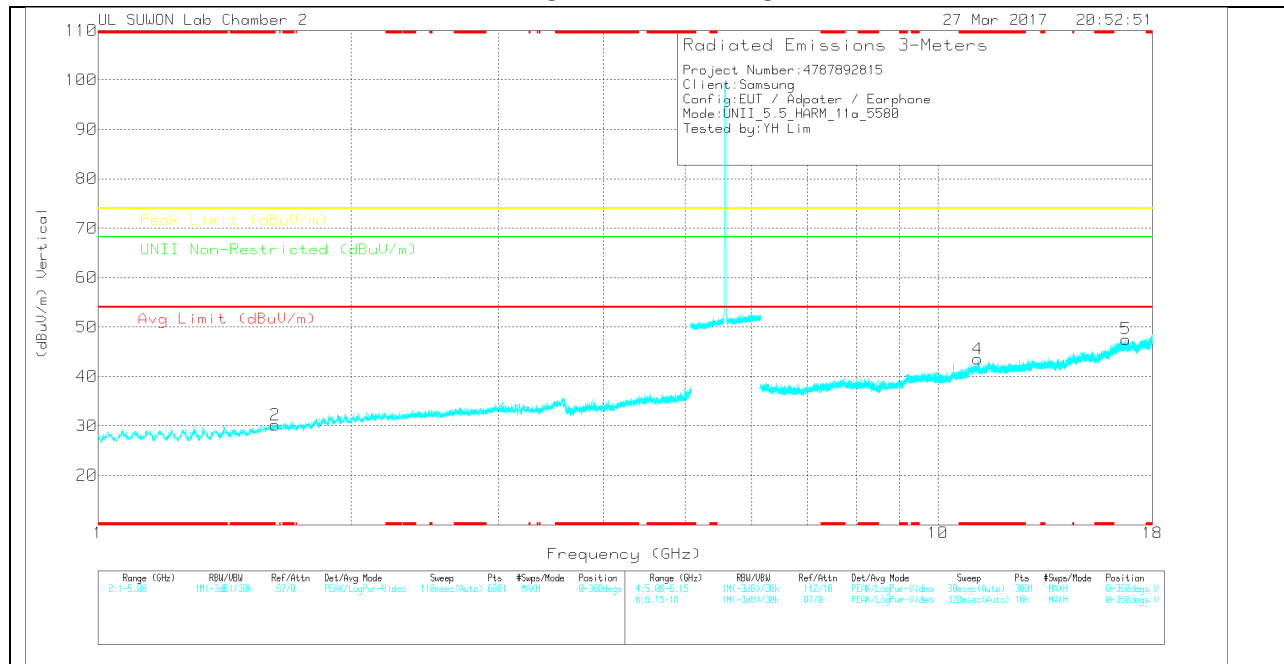
PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

MID CHANNEL HORIZONTAL



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

Trace Markers

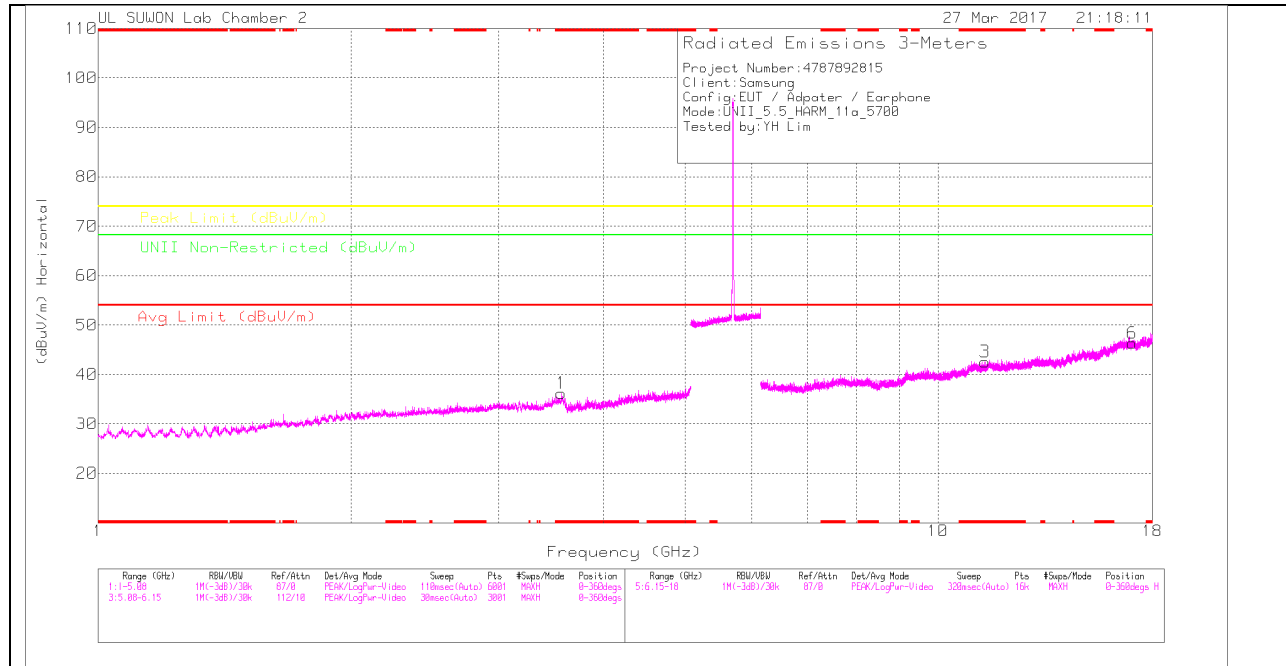
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	5GHz_LP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.624	29.65	PK	29.2	-27.3	0	31.55	-	-	74	-42.45	-	-	0-360	250	H
2	* 1.625	28.27	PK	29.2	-27.3	0	30.17	-	-	74	-43.83	-	-	0-360	250	V
3	* 11.16	20.12	PK	38.1	-16.2	0	42.02	-	-	74	-31.98	-	-	0-360	150	H
6	16.748	19.8	PK	41	-13.6	0	47.2	-	-	-	-	68.2	-21	0-360	150	H
4	* 11.159	21.61	PK	38.1	-16.2	0	43.51	-	-	74	-30.49	-	-	0-360	150	V
5	16.744	20.15	PK	41	-13.6	0	47.55	-	-	-	-	68.2	-20.65	0-360	150	V

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

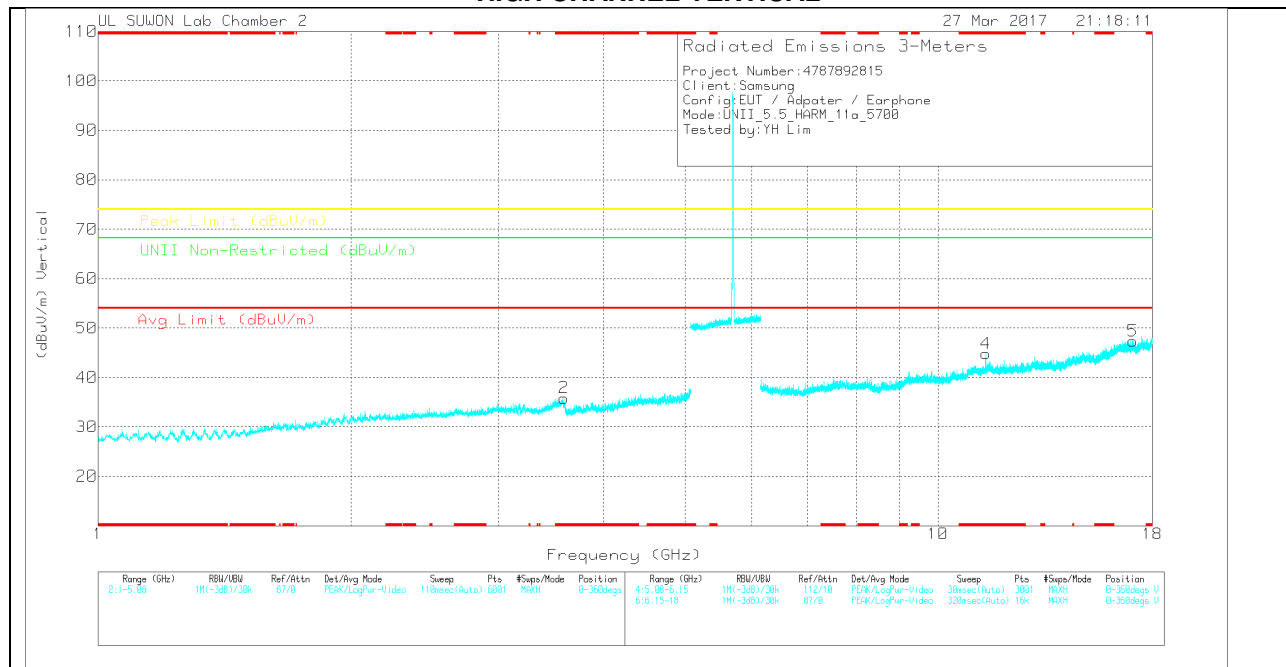
PK – Peak detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

HIGH CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117/0016 8724/150 619	5GHz_LP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.56	28.09	PK	32.8	-24.7	0	36.19	-	-	74	-37.81	-	-	0-360	150	H
2	* 3.589	28.34	PK	32.8	-25.3	0	35.84	-	-	74	-38.16	-	-	0-360	150	V
3	* 11.376	19.76	PK	38.3	-15.5	0	42.56	-	-	74	-31.44	-	-	0-360	250	H
6	17.042	18.52	PK	41.1	-13.3	0	46.32	-	-	-	-	68.2	-21.88	0-360	150	H
4	* 11.402	22.2	PK	38.3	-15.7	0	44.8	-	-	74	-29.2	-	-	0-360	150	V
5	17.07	19.64	PK	41.1	-13.4	0	47.34	-	-	-	-	68.2	-20.86	0-360	150	V

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

PK – Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117/001687 24/150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.401	30.18	PK-U	38.3	-15.7	0	52.78	-	-	74	-21.22	-	-	21	109	H
* 11.402	17.78	ADR	38.3	-15.7	.28	40.66	54	-13.34	-	-	-	-	21	109	H
* 11.402	34.02	PK-U	38.3	-15.7	0	56.62	-	-	74	-17.38	-	-	147	128	V
* 11.401	20.75	ADR	38.3	-15.7	.28	43.63	54	-10.37	-	-	-	-	147	128	V

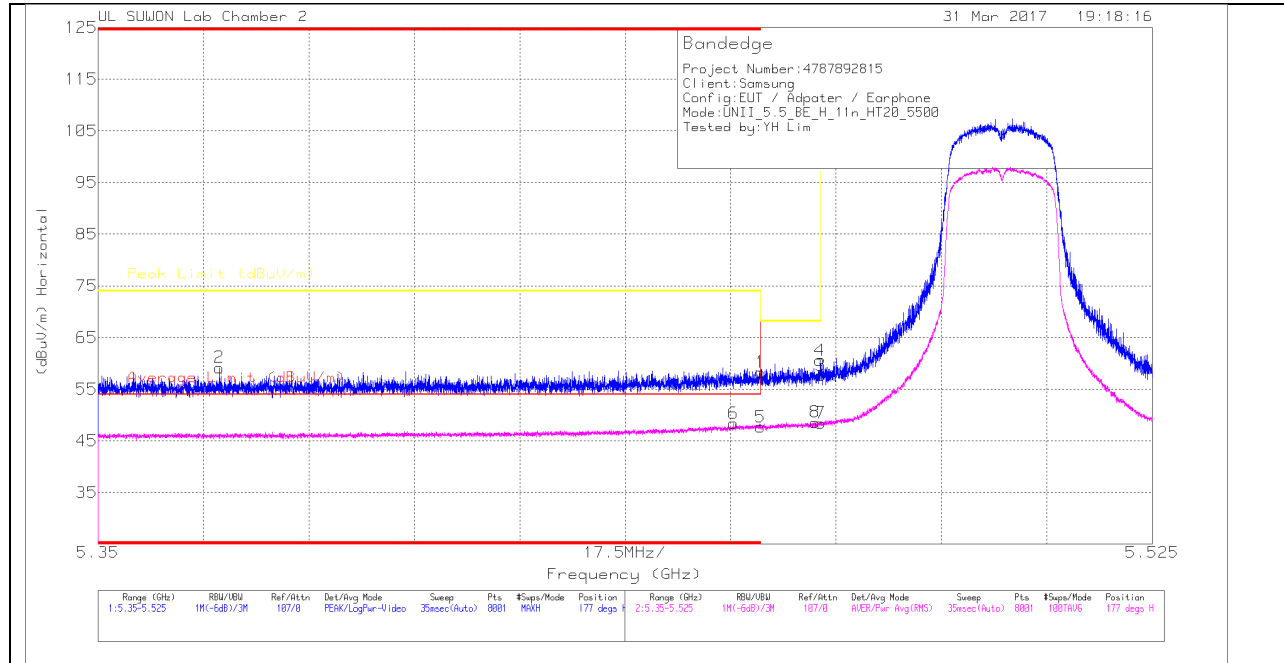
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

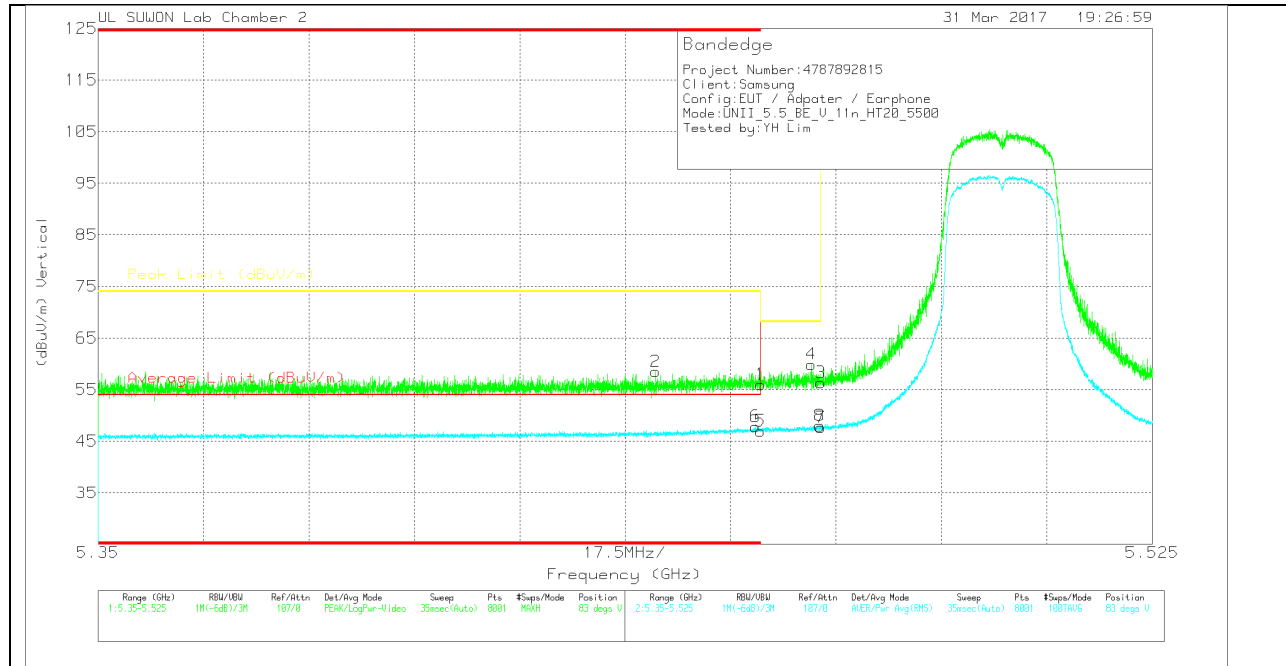
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	38.79	Pk	34.5	-15	0	58.29	-	-	74	-15.71	177	208	H
2	* 5.37	39.99	Pk	34.4	-15.2	0	59.19	-	-	74	-14.81	177	208	H
3	5.47	38.21	Pk	34.5	-15	0	57.71	-	-	68.2	-10.49	177	208	H
4	5.47	41.09	Pk	34.5	-15	0	60.59	-	-	68.2	-7.61	177	208	H
5	* 5.46	27.85	RMS	34.5	-15	.3	47.65	54	-6.35	-	-	177	208	H
6	* 5.455	28.69	RMS	34.5	-15.1	.3	48.39	54	-5.61	-	-	177	208	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(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	36.5	Pk	34.5	-15	0	56	-	-	74	-18	83	120	V
2	* 5.443	39.11	Pk	34.5	-15.1	0	58.51	-	-	74	-15.49	83	120	V
3	5.47	36.85	Pk	34.5	-15	0	56.35	-	-	68.2	-11.85	83	120	V
4	5.468	40.42	Pk	34.5	-15	0	59.92	-	-	68.2	-8.28	83	120	V
5	* 5.46	27.2	RMS	34.5	-15	.3	47	54	-7	-	-	83	120	V
6	* 5.459	28.04	RMS	34.5	-15	.3	47.84	54	-6.16	-	-	83	120	V

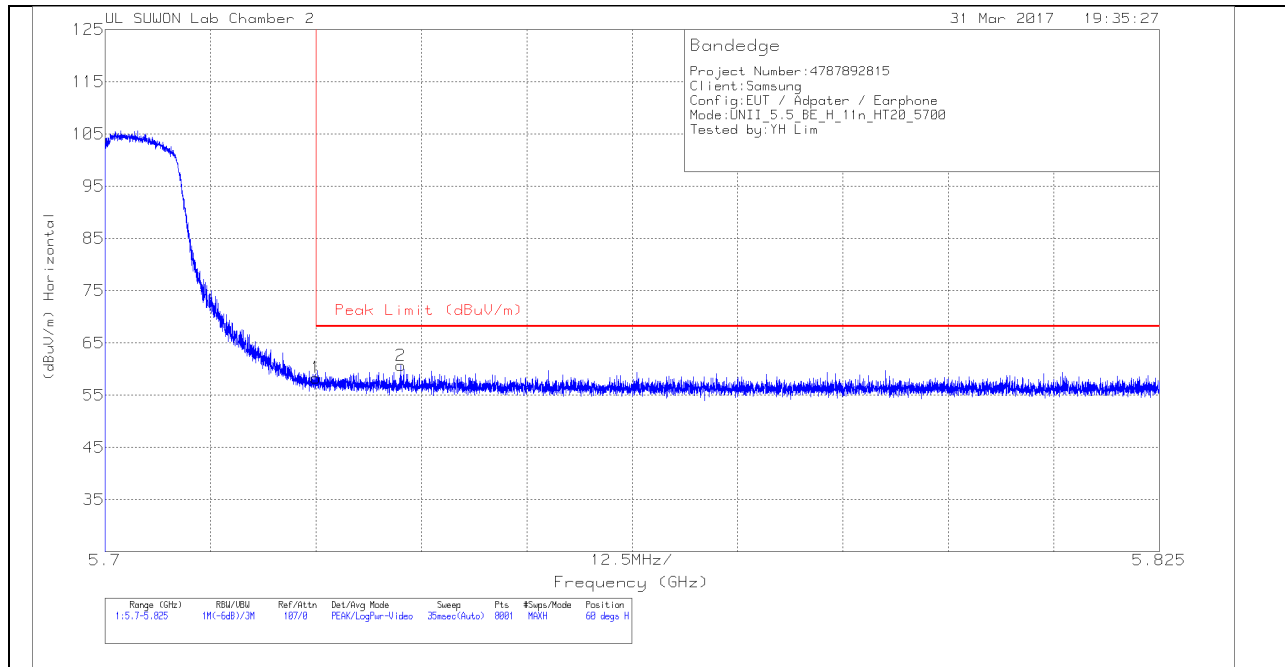
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



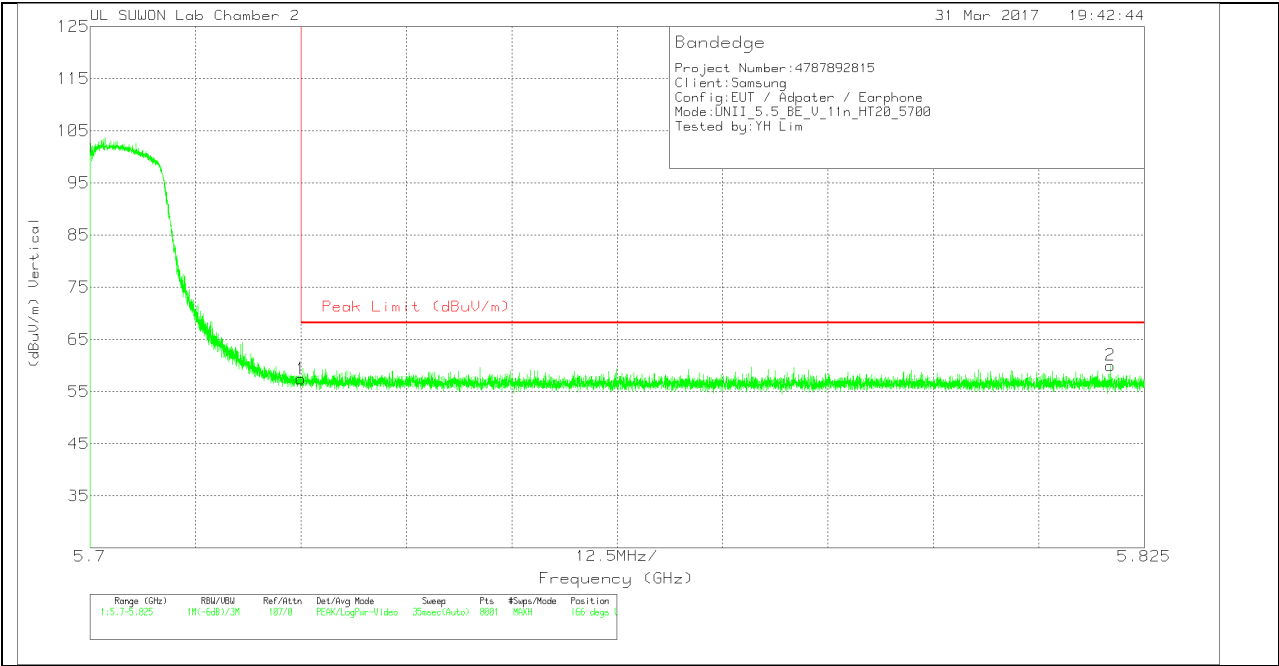
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	38.13	Pk	34.7	-14.5	0	58.33	68.2	-9.87	60	271	H
2	5.735	40.35	Pk	34.7	-14.4	0	60.65	68.2	-7.55	60	271	H

Pk - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

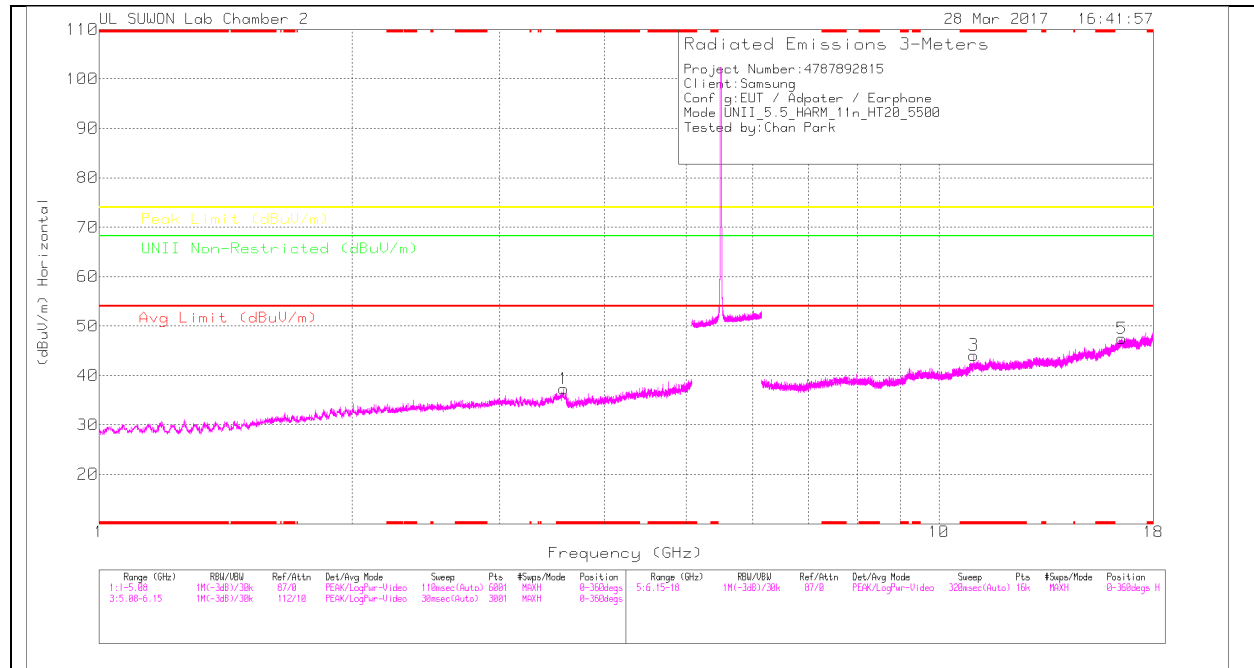
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.24	Pk	34.7	-14.5	0	57.44	68.2	-10.76	166	150	V
2	5.821	39.71	Pk	34.7	-14.4	0	60.01	68.2	-8.19	166	150	V

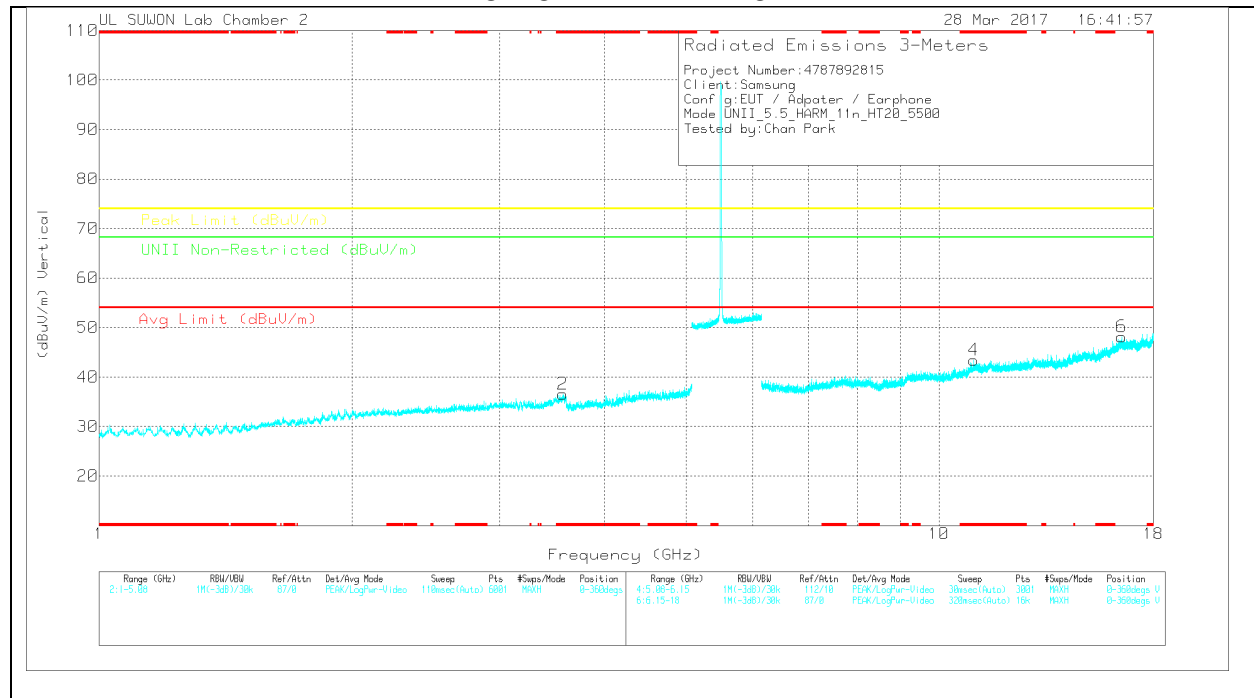
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	5GHz_LP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.574	29.47	PK	32.8	-25	0	37.27	-	-	74	-36.73	-	-	0-360	250	H
2	* 3.566	28.67	PK	32.8	-24.9	0	36.57	-	-	74	-37.43	-	-	0-360	250	V
3	* 11	22.09	PK	38	-16	0	44.09	-	-	74	-29.91	-	-	0-360	150	H
5	16.502	20.89	PK	41	-14.4	0	47.49	-	-	-	-	68.2	-20.71	0-360	150	H
4	* 10.999	21.43	PK	38	-16	0	43.43	-	-	74	-30.57	-	-	0-360	250	V
6	16.501	21.56	PK	41	-14.4	0	48.16	-	-	-	-	68.2	-20.04	0-360	250	V

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

PK – Peak detector

Radiated Emissions

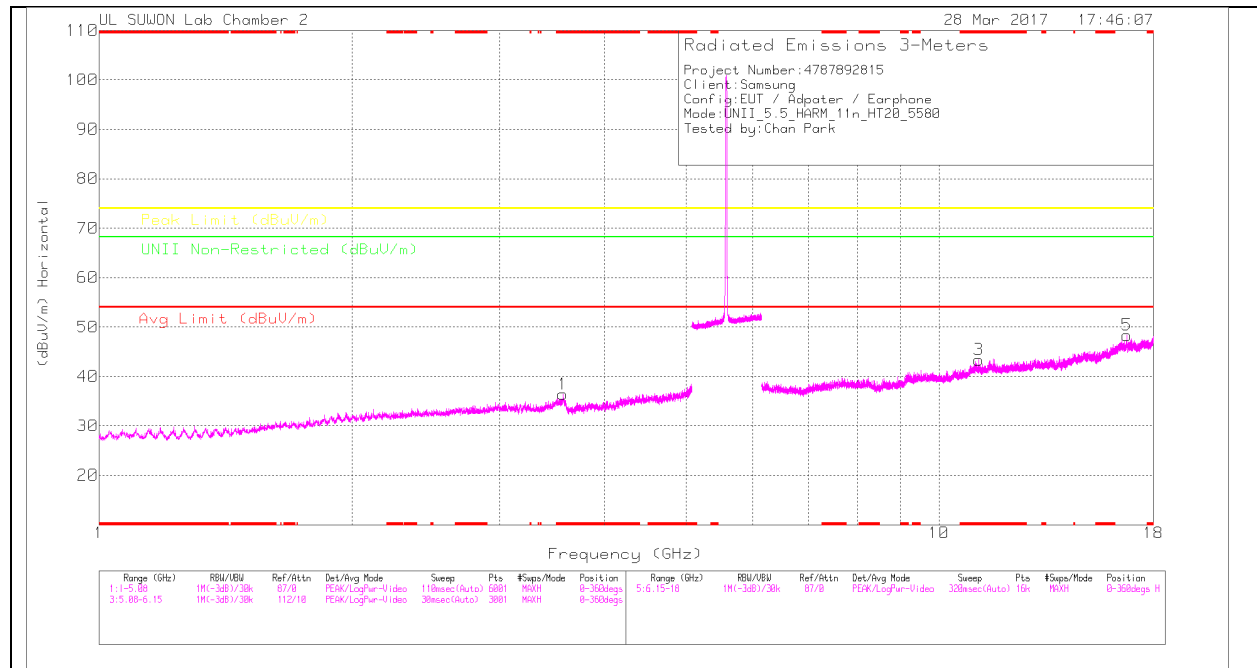
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 10.998	33.06	PK-U	38	-16	0	55.06	-	-	74	-18.94	-	-	117	156	H
* 11.001	19.56	ADR	38	-16	.3	41.86	54	-12.14	-	-	-	-	117	156	H
* 10.999	33.47	PK-U	38	-16	0	55.47	-	-	74	-18.53	-	-	178	182	V
* 10.999	19.76	ADR	38	-16	.3	42.06	54	-11.94	-	-	-	-	178	182	V

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

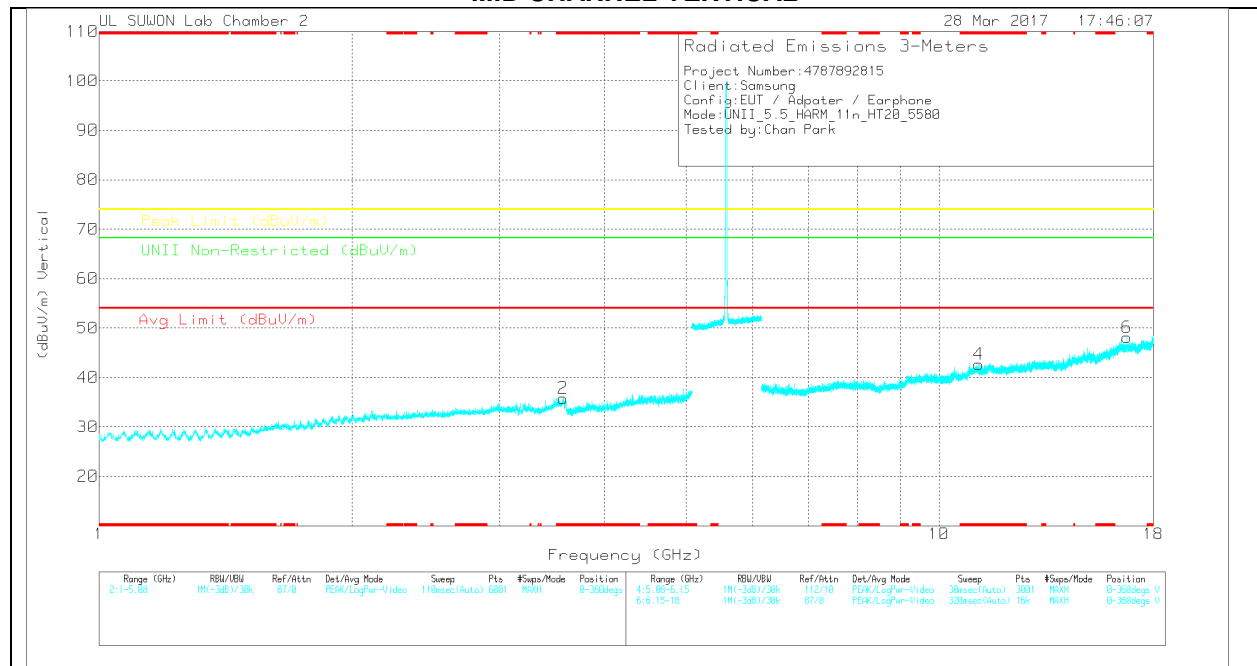
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL HORIZONTAL



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

Trace Markers

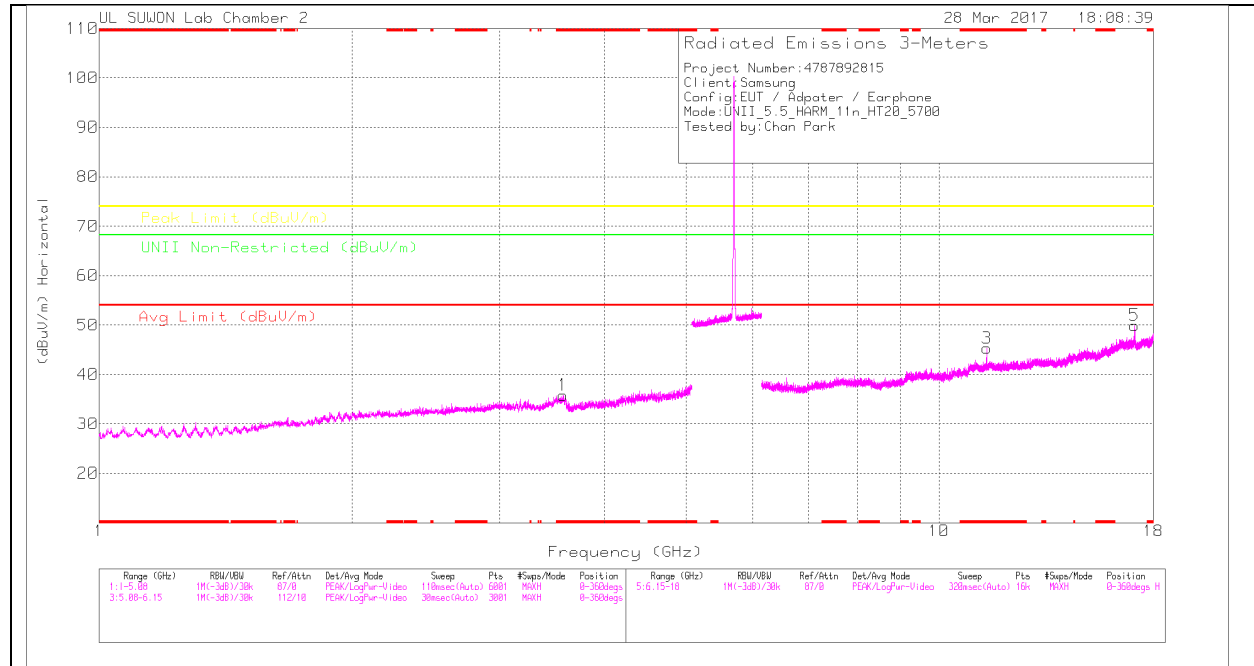
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	5GHz_LP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.566	28.52	PK	32.8	-24.9	0	36.42	-	-	74	-37.58	-	-	0-360	150	H
2	* 3.57	27.91	PK	32.8	-24.9	0	35.81	-	-	74	-38.19	-	-	0-360	150	V
3	* 11.157	21.47	PK	38.1	-16.2	0	43.37	-	-	74	-30.63	-	-	0-360	150	H
5	16.745	20.93	PK	41	-13.6	0	48.33	-	-	-	-	68.2	-19.87	0-360	150	H
4	* 11.156	20.78	PK	38.1	-16.2	0	42.68	-	-	74	-31.32	-	-	0-360	250	V
6	16.745	20.71	PK	41	-13.6	0	48.11	-	-	-	-	68.2	-20.09	0-360	250	V

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

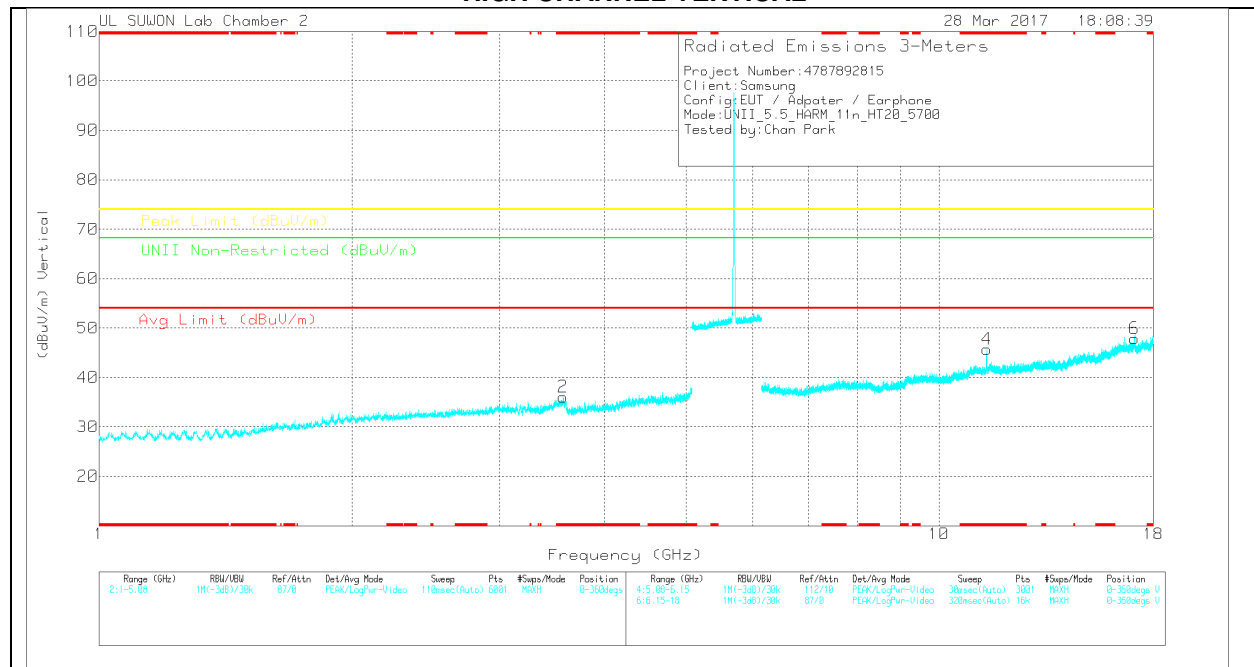
PK – Peak detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

HIGH CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[0016 8724] 150 619	5GHz_LP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.567	27.91	PK	32.8	-24.9	0	35.81	-	-	74	-38.19	-	-	0-360	250	H
2	* 3.568	28.18	PK	32.8	-24.9	0	36.08	-	-	74	-37.92	-	-	0-360	250	V
3	* 11.399	22.59	PK	38.3	-15.6	0	45.29	-	-	74	-28.71	-	-	0-360	150	H
5	17.099	22.34	PK	41.1	-13.5	0	49.94	-	-	-	-	68.2	-18.26	0-360	250	H
4	* 11.401	23.14	PK	38.3	-15.7	0	45.74	-	-	74	-28.26	-	-	0-360	150	V
6	17.096	20.3	PK	41.1	-13.5	0	47.9	-	-	-	-	68.2	-20.3	0-360	250	V

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

PK – Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117[001687 24] 150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.398	35.37	PK-U	38.3	-15.6	0	58.07	-	-	74	-15.93	-	-	178	186	H
* 11.401	21.24	ADR	38.3	-15.7	.3	44.14	54	-9.86	-	-	-	-	178	186	H
17.105	35.48	PK-U	41.1	-13.5	0	63.08	-	-	-	-	68.2	-5.12	162	266	H
* 11.398	34.25	PK-U	38.3	-15.6	0	56.95	-	-	74	-17.05	-	-	178	186	V
* 11.401	21.46	ADR	38.3	-15.7	.3	44.36	54	-9.64	-	-	-	-	178	186	V
17.096	33.69	PK-U	41.1	-13.5	0	61.29	-	-	-	-	68.2	-6.91	227	100	V

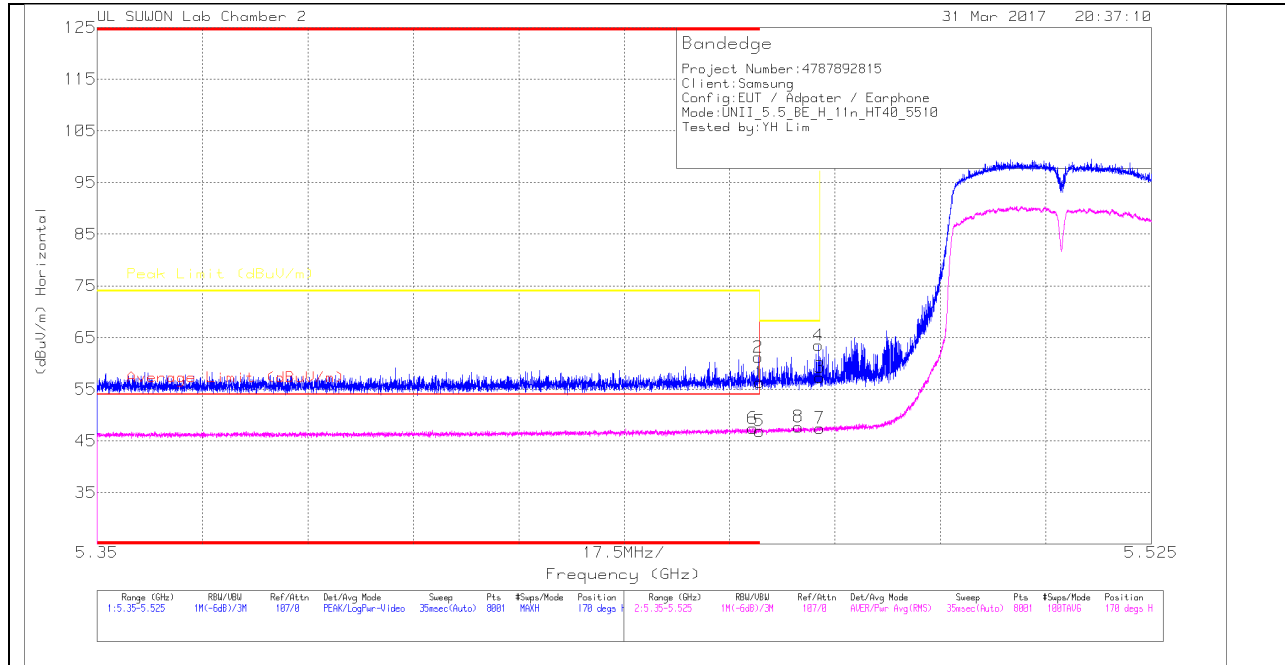
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

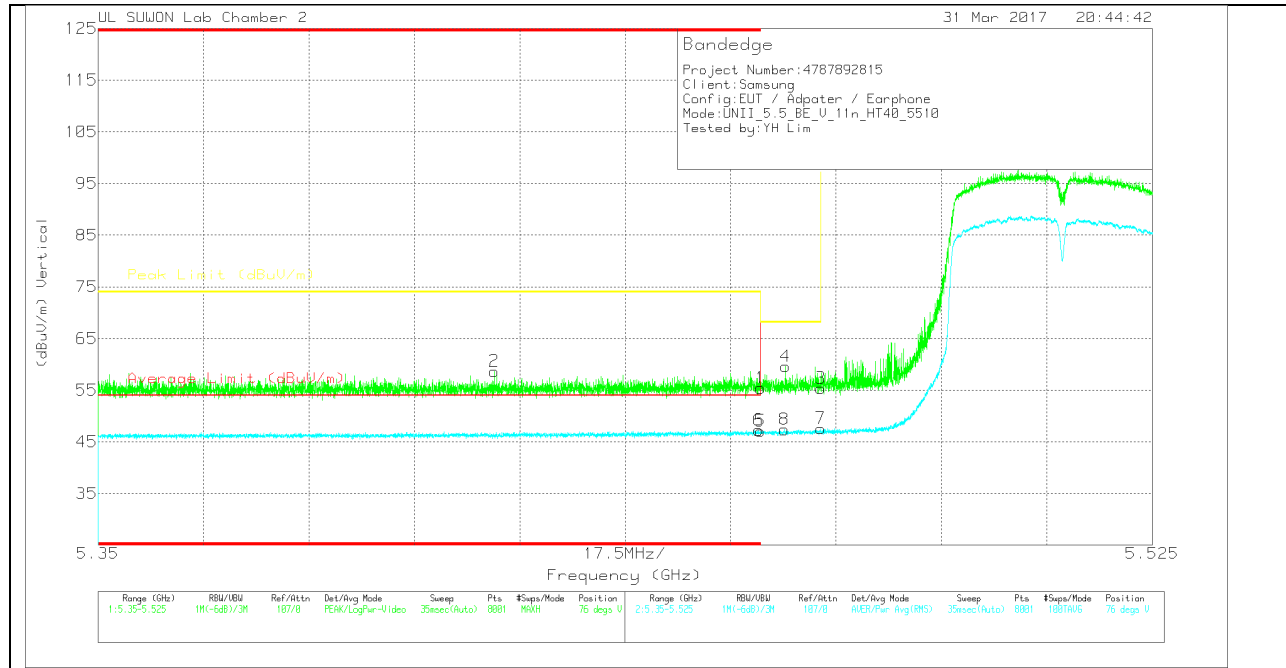
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	36.81	Pk	34.5	-15	0	56.31	-	-	74	-17.69	170	184	H
2	* 5.46	41.69	Pk	34.5	-15	0	61.19	-	-	74	-12.81	170	184	H
3	5.47	37.83	Pk	34.5	-15	0	57.33	-	-	68.2	-10.87	170	184	H
4	5.47	44	Pk	34.5	-15	0	63.5	-	-	68.2	-4.7	170	184	H
5	* 5.46	26.85	RMS	34.5	-15	.56	46.91	54	-7.09	-	-	170	184	H
6	* 5.459	27.4	RMS	34.5	-15	.56	47.46	54	-6.54	-	-	170	184	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(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	35.93	Pk	34.5	-15	0	55.43	-	-	74	-18.57	76	130	V
2	* 5.416	39.48	Pk	34.4	-15.2	0	58.68	-	-	74	-15.32	76	130	V
3	5.47	35.88	Pk	34.5	-15	0	55.38	-	-	68.2	-12.82	76	130	V
4	5.464	40.2	Pk	34.5	-15.1	0	59.6	-	-	68.2	-8.6	76	130	V
5	* 5.46	27.06	RMS	34.5	-15	.56	47.12	54	-6.88	-	-	76	130	V
6	* 5.46	27.22	RMS	34.5	-15	.56	47.28	54	-6.72	-	-	76	130	V

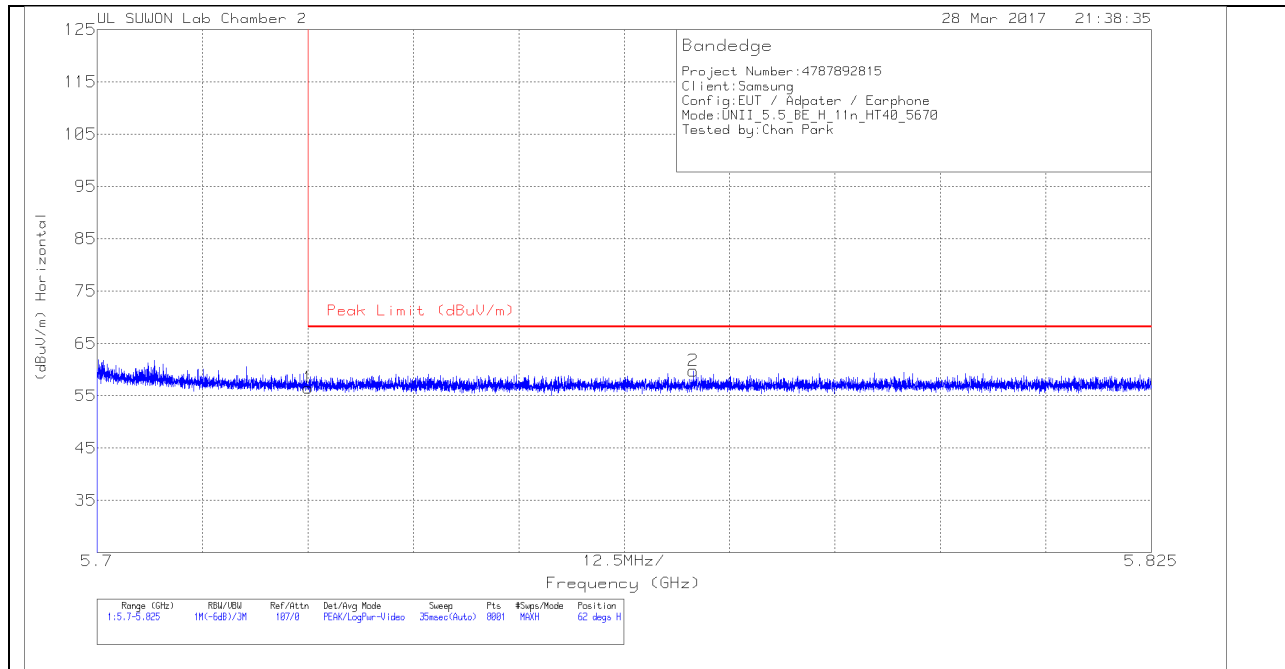
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



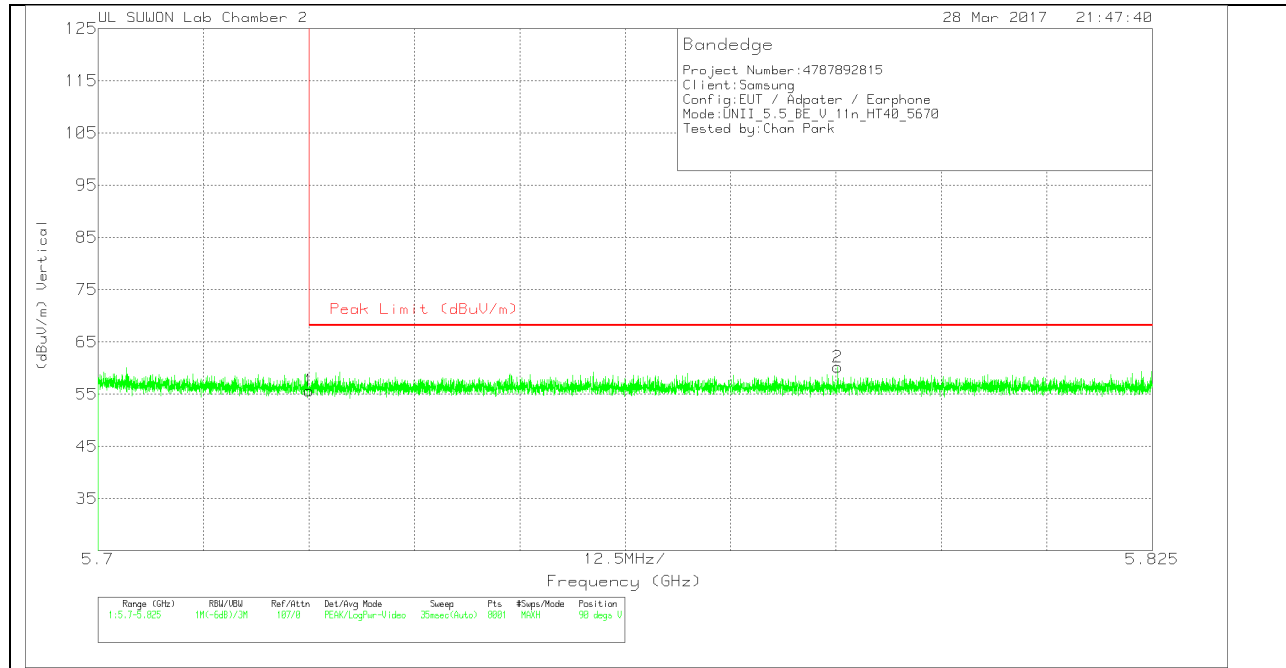
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	36.32	Pk	34.7	-14.5	0	56.52	68.2	-11.68	62	150	H
2	5.771	39.48	Pk	34.7	-14.4	0	59.78	68.2	-8.42	62	150	H

Pk - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

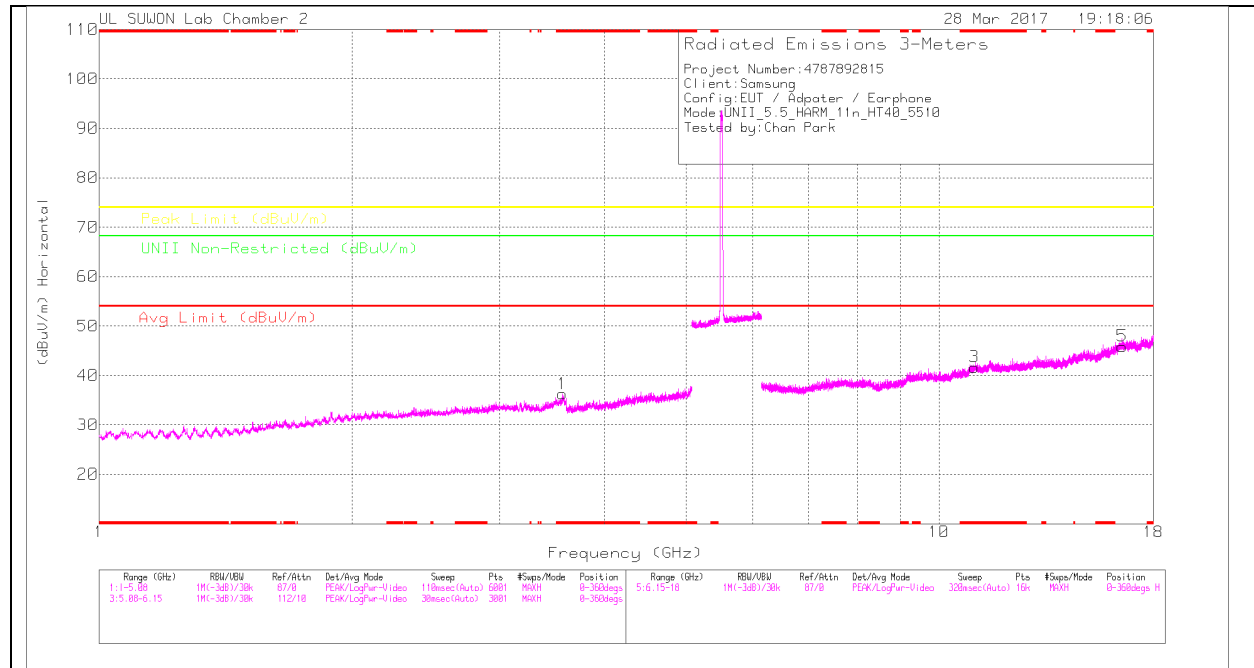
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	35.47	Pk	34.7	-14.5	0	55.67	68.2	-12.53	90	124	V
2	5.788	39.9	Pk	34.7	-14.4	0	60.2	68.2	-8	90	124	V

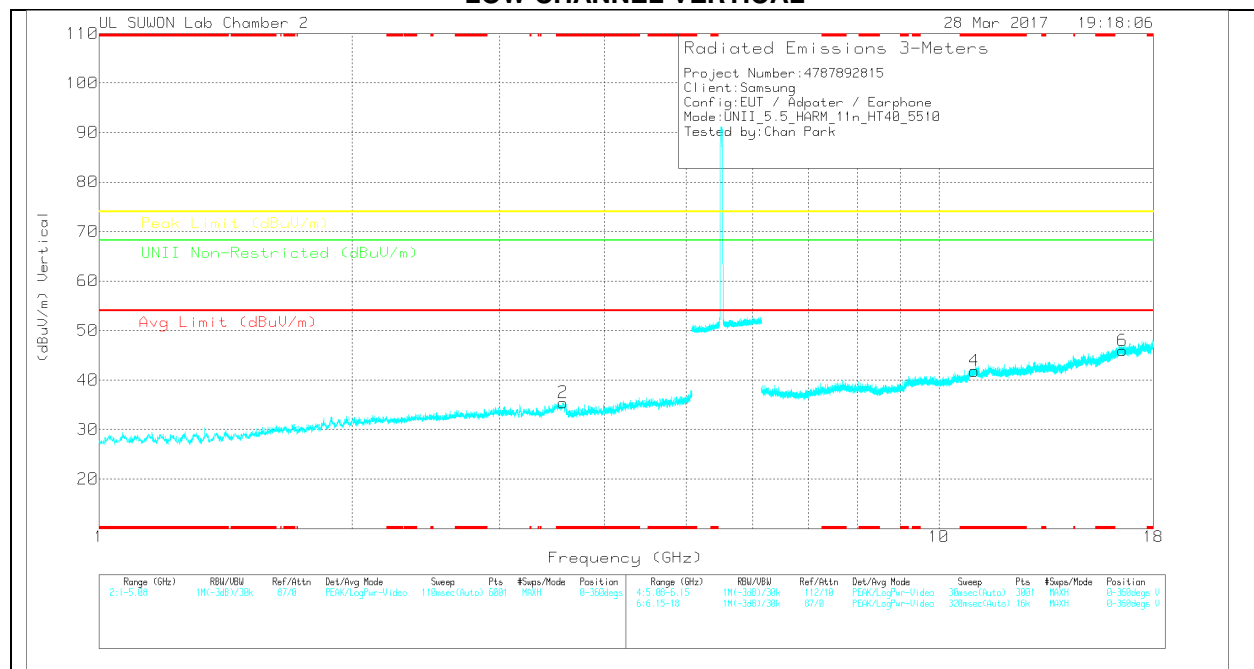
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

Trace Markers

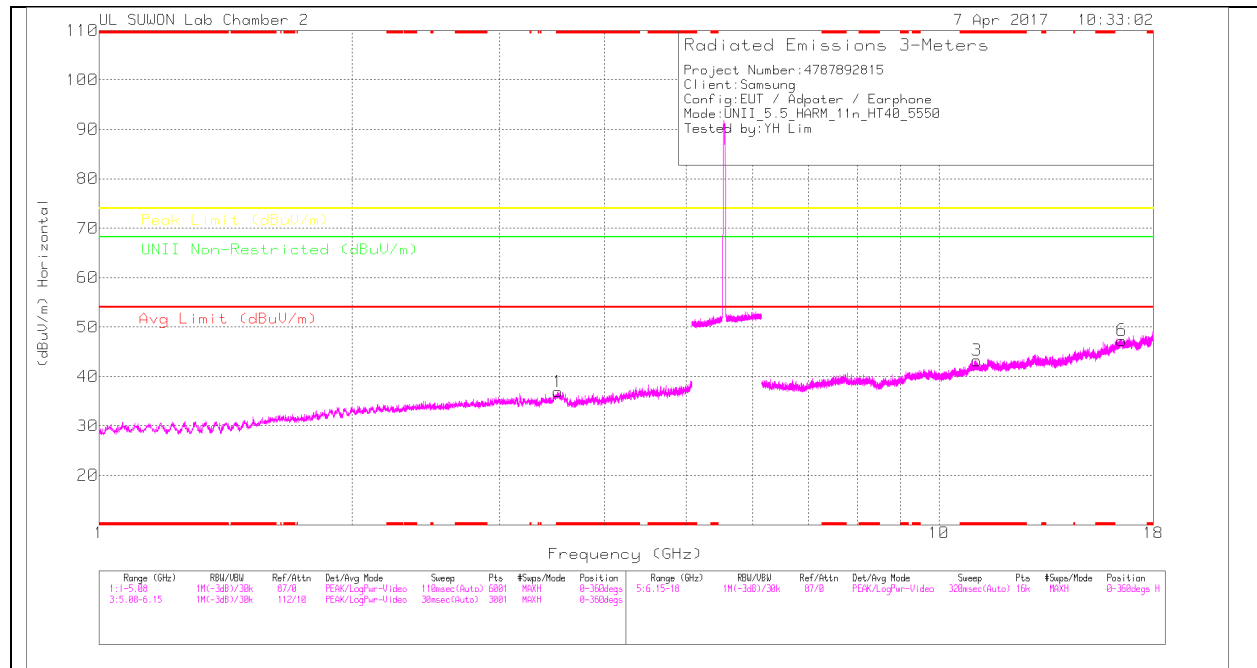
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724) 150 619	5GHz_LP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.564	28.29	PK	32.8	-24.8	0	36.29	-	-	74	-37.71	-	-	0-360	250	H
2	* 3.57	27.55	PK	32.8	-24.9	0	35.45	-	-	74	-38.55	-	-	0-360	150	V
3	* 11.021	19.8	PK	38	-16.1	0	41.7	-	-	74	-32.3	-	-	0-360	150	H
5	16.529	19.19	PK	41	-14.3	0	45.89	-	-	-	-	68.2	-22.31	0-360	250	H
4	* 11.019	19.93	PK	38	-16.1	0	41.83	-	-	74	-32.17	-	-	0-360	250	V
6	16.531	19.23	PK	41	-14.3	0	45.93	-	-	-	-	68.2	-22.27	0-360	150	V

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

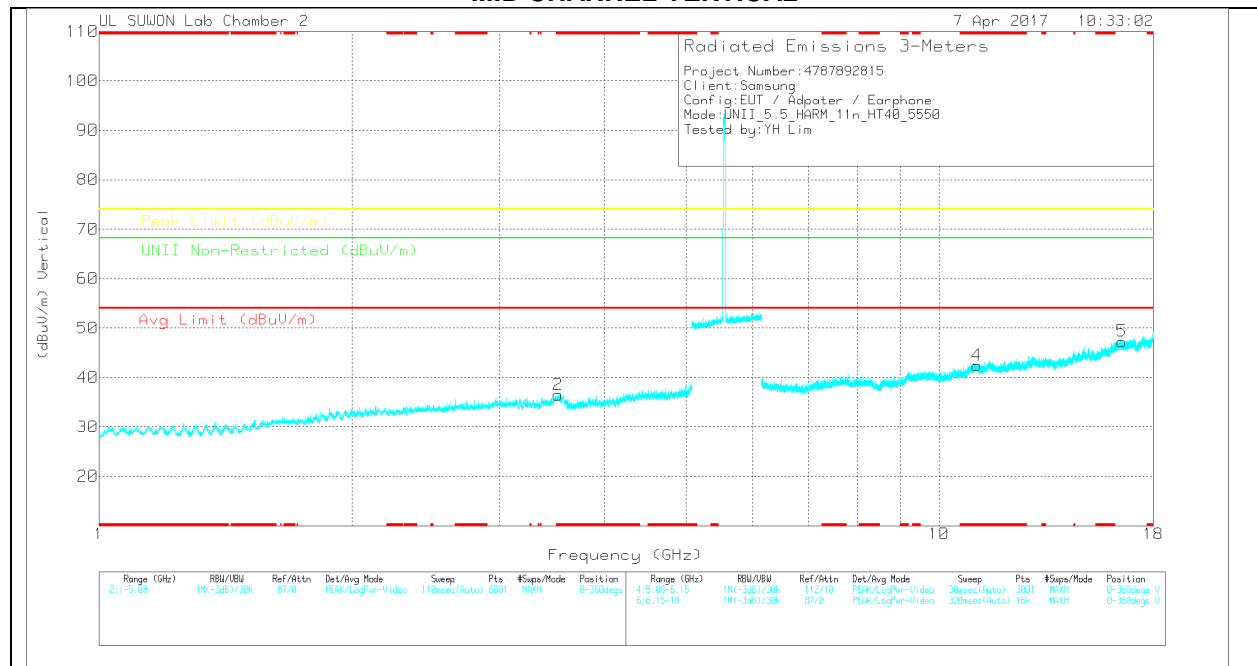
PK – Peak detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

MID CHANNEL HORIZONTAL



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

Trace Markers

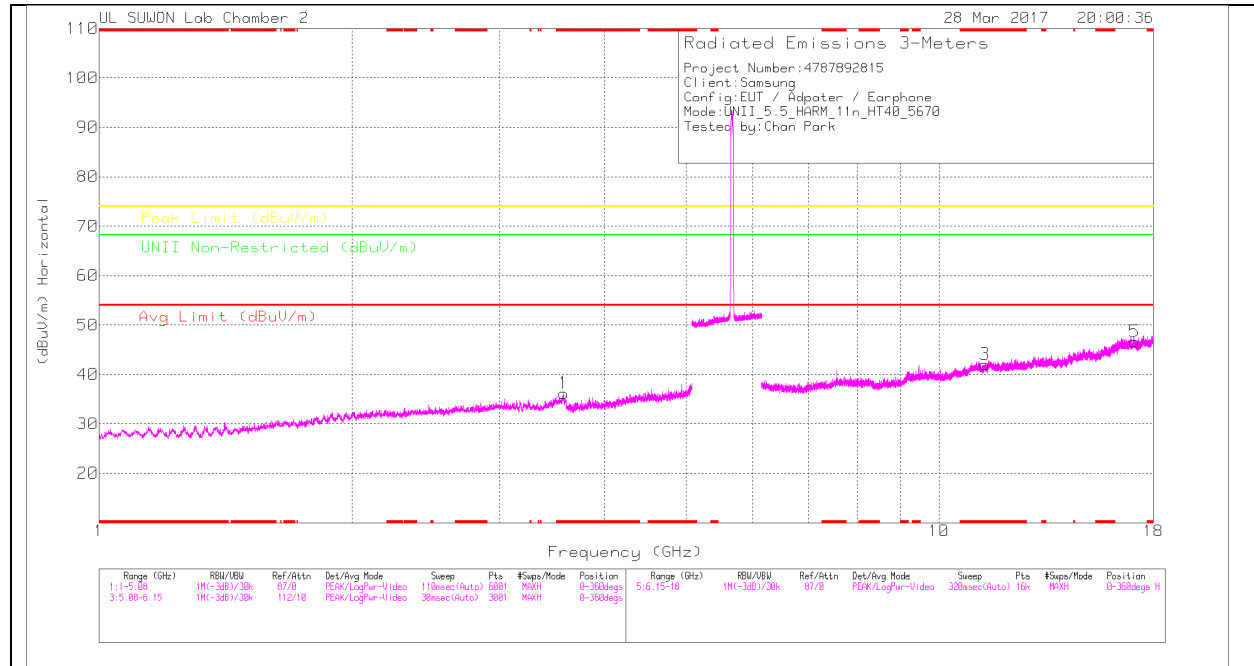
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	5GHz_LP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.519	28.7	PK	32.7	-24.5	0	36.9	-	-	74	-37.1	-	-	0-360	150	H
2	* 3.518	28.29	PK	32.7	-24.5	0	36.49	-	-	74	-37.51	-	-	0-360	150	V
3	* 11.099	21.23	PK	38.1	-16.1	0	43.23	-	-	74	-30.77	-	-	0-360	150	H
6	16.514	20.58	PK	41	-14.3	0	47.28	-	-	-	-	68.2	-20.92	0-360	150	H
4	* 11.101	20.43	PK	38.1	-16.1	0	42.43	-	-	74	-31.57	-	-	0-360	150	V
5	16.515	20.59	PK	41	-14.3	0	47.29	-	-	-	-	68.2	-20.91	0-360	150	V

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

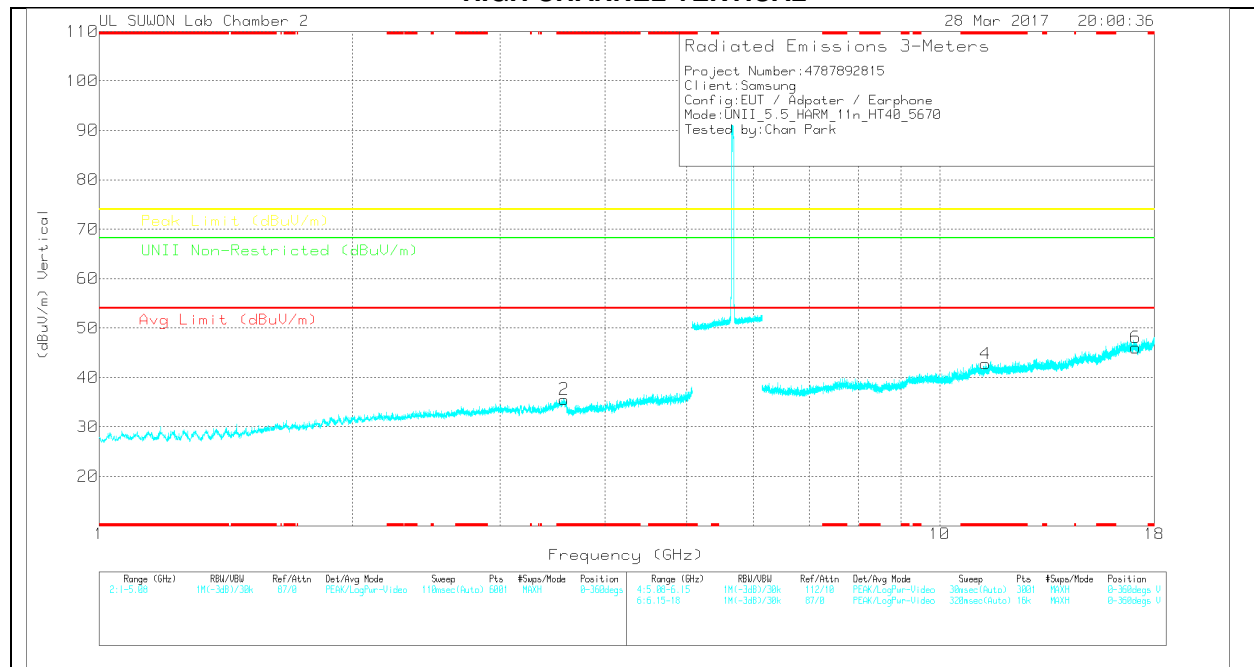
PK – Peak detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

HIGH CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724) 150 619	5GHz_LP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.574	28.4	PK	32.8	-25	0	36.2	-	-	74	-37.8	-	-	0-360	250	H
2	* 3.574	27.75	PK	32.8	-25	0	35.55	-	-	74	-38.45	-	-	0-360	150	V
3	* 11.341	19.35	PK	38.2	-15.5	0	42.05	-	-	74	-31.95	-	-	0-360	150	H
5	17.104	19.03	PK	41.1	-13.5	0	46.63	-	-	-	-	68.2	-21.57	0-360	150	H
4	* 11.337	20.16	PK	38.2	-15.6	0	42.76	-	-	74	-31.24	-	-	0-360	150	V
6	17.106	18.45	PK	41.1	-13.5	0	46.05	-	-	-	-	68.2	-22.15	0-360	250	V

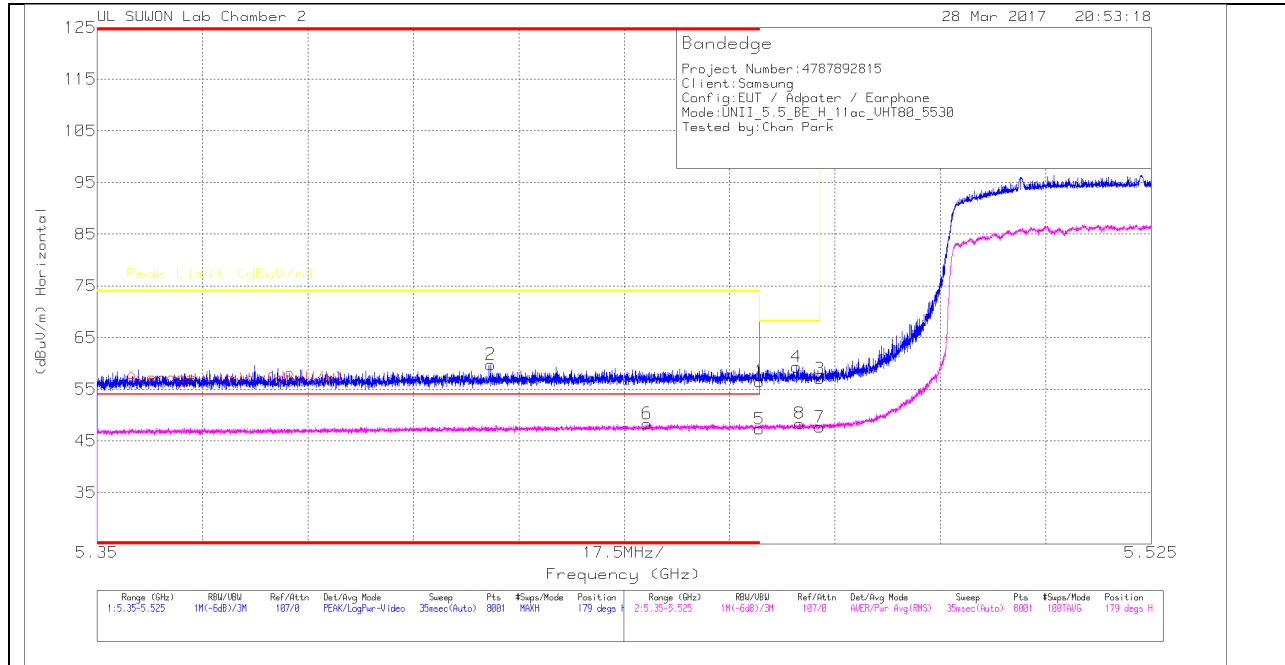
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

10.3.4.TX ABOVE 1GHz 802.11ac VHT80 MODE IN THE 5.5GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

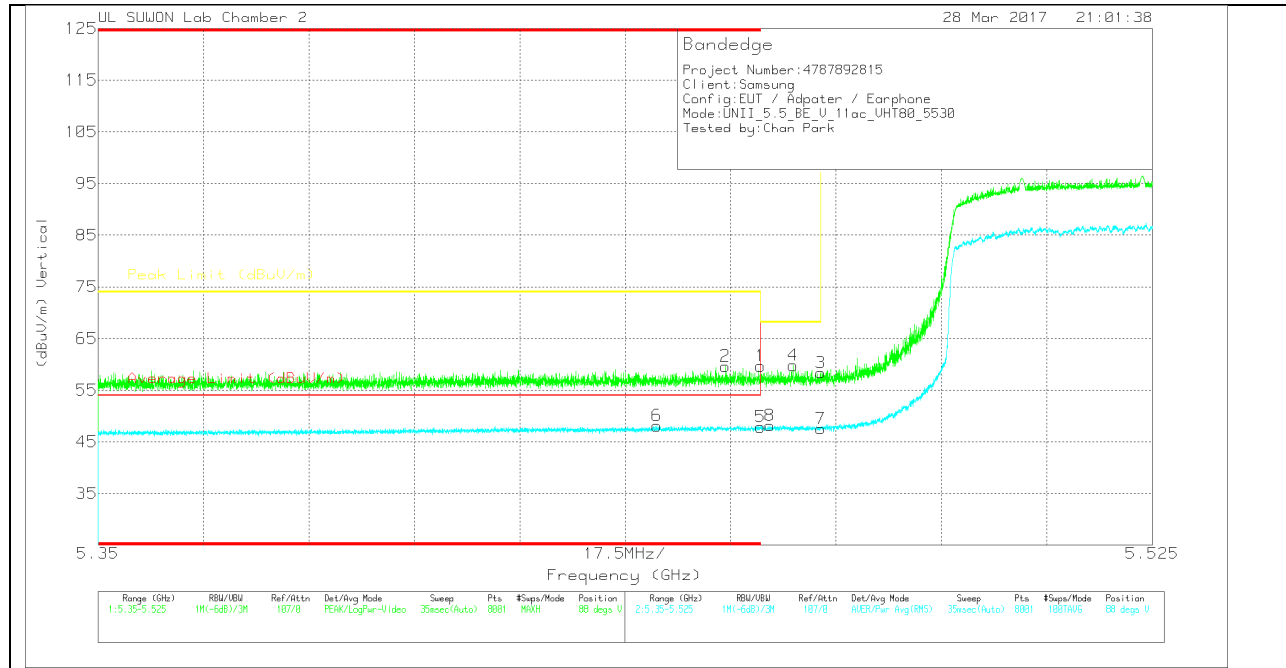
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	36.97	Pk	34.5	-15	0	56.47	-	-	74	-17.53	179	246	H
2	* 5.415	40.56	Pk	34.4	-15.2	0	59.76	-	-	74	-14.24	179	246	H
3	5.47	37.56	Pk	34.5	-15	0	57.06	-	-	68.2	-11.14	179	246	H
4	5.466	39.92	Pk	34.5	-15.1	0	59.32	-	-	68.2	-8.88	179	246	H
5	* 5.46	26.78	RMS	34.5	-15	1.05	47.33	54	-6.67	-	-	179	246	H
6	* 5.441	27.88	RMS	34.5	-15.1	1.05	48.33	54	-5.67	-	-	179	246	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 5.46	40.19	Pk		34.5	-15	59.69	-	-	74	-14.31	88	137	V
2	* 5.454	40.23	Pk		34.5	-15.1	59.63	-	-	74	-14.37	88	137	V
3	5.47	38.89	Pk		34.5	-15	58.39	-	-	68.2	-9.81	88	137	V
4	5.465	40.41	Pk		34.5	-15.1	59.81	-	-	68.2	-8.39	88	137	V
5	* 5.46	27.34	RMS		34.5	-15	47.89	54	-6.11	-	-	88	137	V
6	* 5.443	27.68	RMS		34.5	-15.1	48.13	54	-5.87	-	-	88	137	V

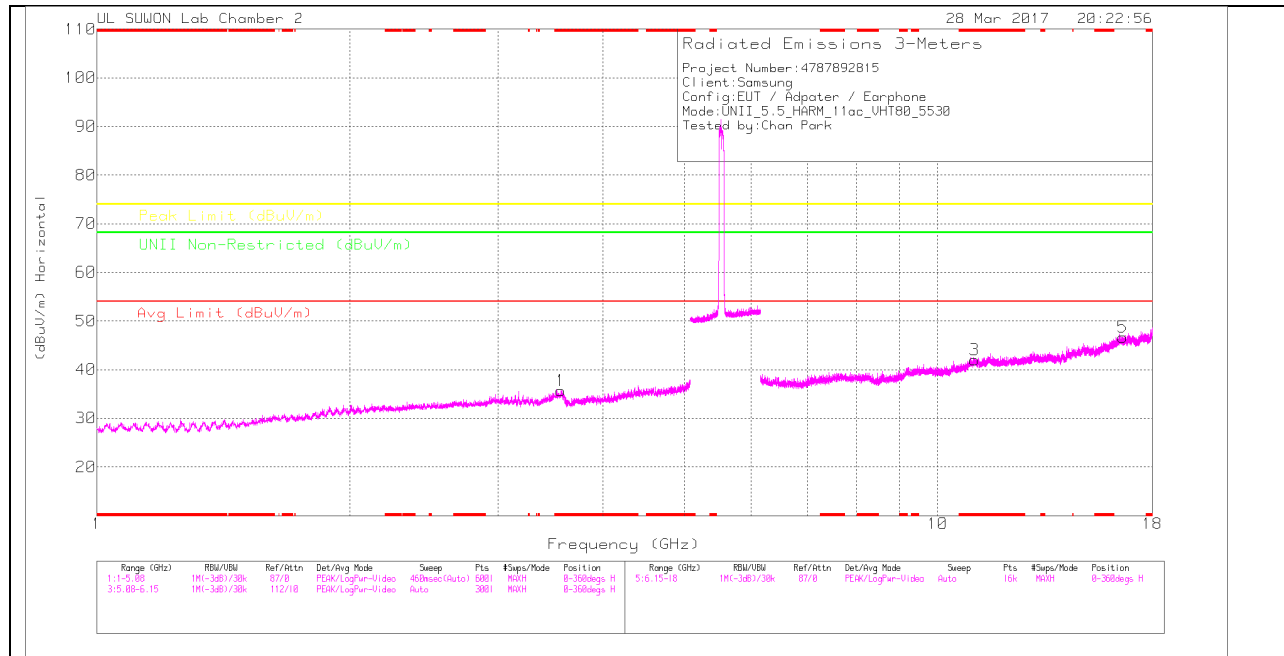
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

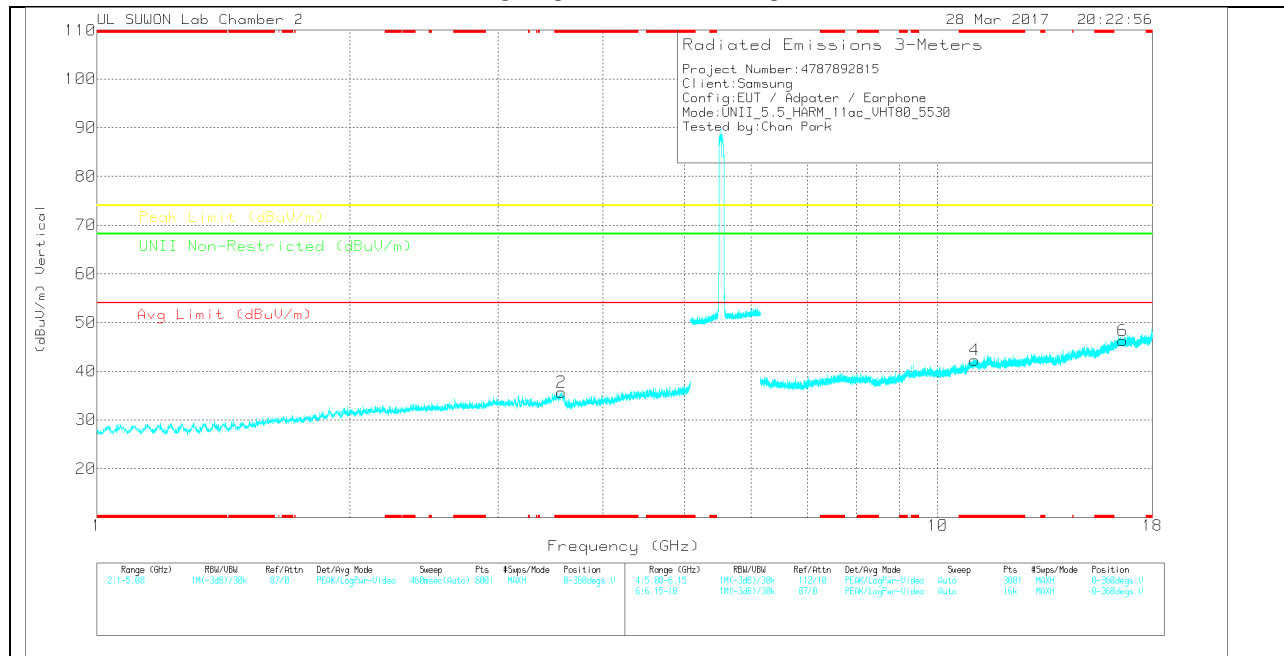
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724) 150 619	5GHz_LP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.565	27.68	PK	32.8	-24.8	0	35.68	-	-	74	-38.32	-	-	0-360	150	H
2	* 3.57	27.72	PK	32.8	-24.9	0	35.62	-	-	74	-38.38	-	-	0-360	250	V
3	* 11.056	20.14	PK	38.1	-16.2	0	42.04	-	-	74	-31.96	-	-	0-360	250	H
5	16.591	19.84	PK	41	-14.2	0	46.64	-	-	-	-	68.2	-21.56	0-360	150	H
4	* 11.059	20.34	PK	38.1	-16.2	0	42.24	-	-	74	-31.76	-	-	0-360	150	V
6	16.588	19.52	PK	41	-14.2	0	46.32	-	-	-	-	68.2	-21.88	0-360	150	V

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

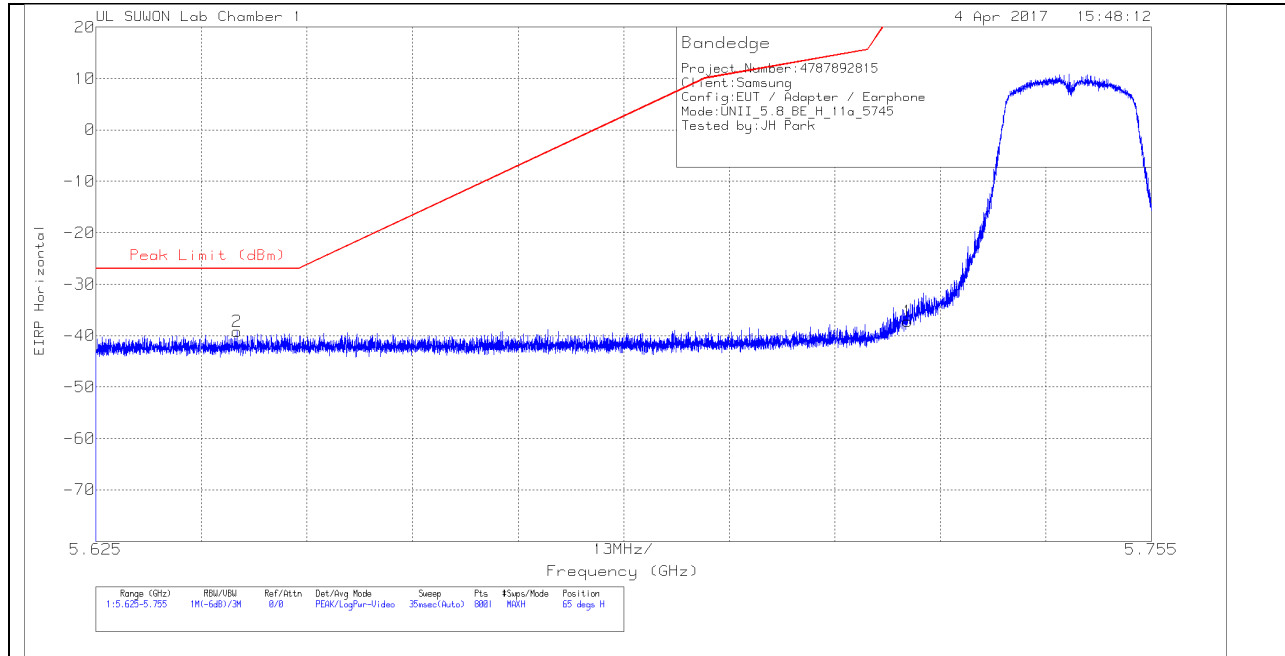
PK – Peak detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

10.4. 5.8 GHz

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

HORIZONTAL PEAK PLOT



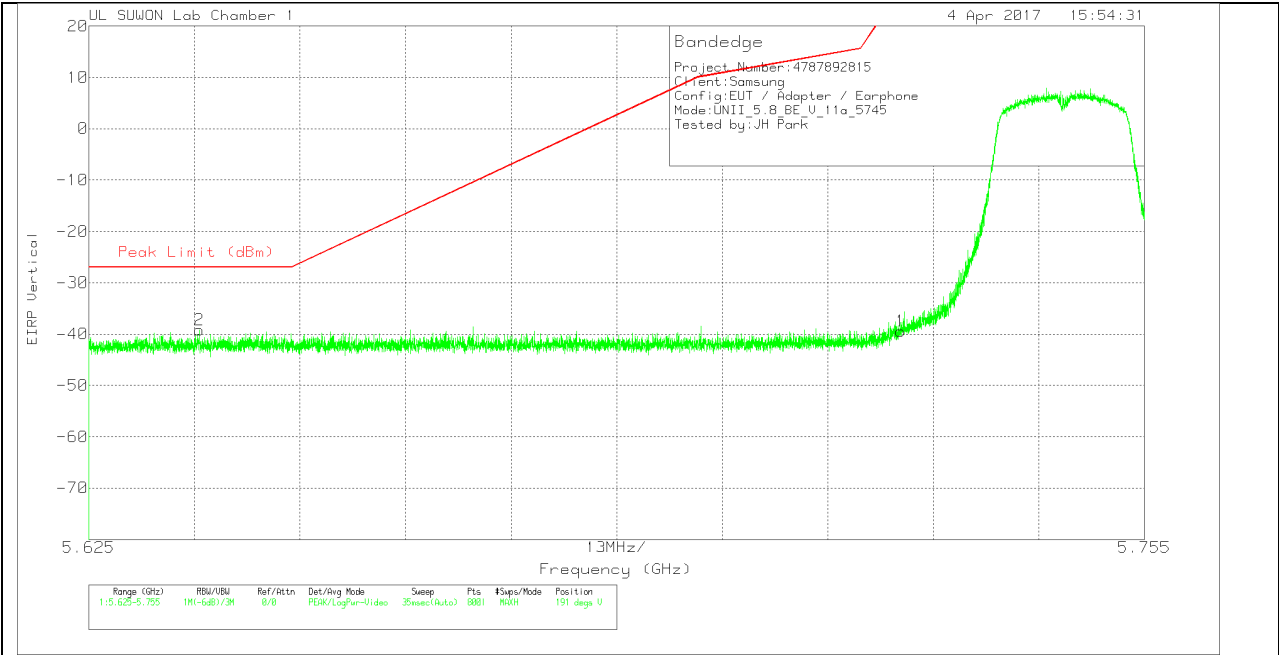
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117(0016 8717)_150 619	10dB_Att(dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-60.95	Pk		-22.9	11.8	0	-37.25	26.97	-64.22	65	304	H
2	5.642	-62.7	Pk		-23.1	11.8	0	-39.2	-27	-12.2	65	304	H

Pk - Peak detector

VERTICAL PEAK PLOT



VERTICAL DATA

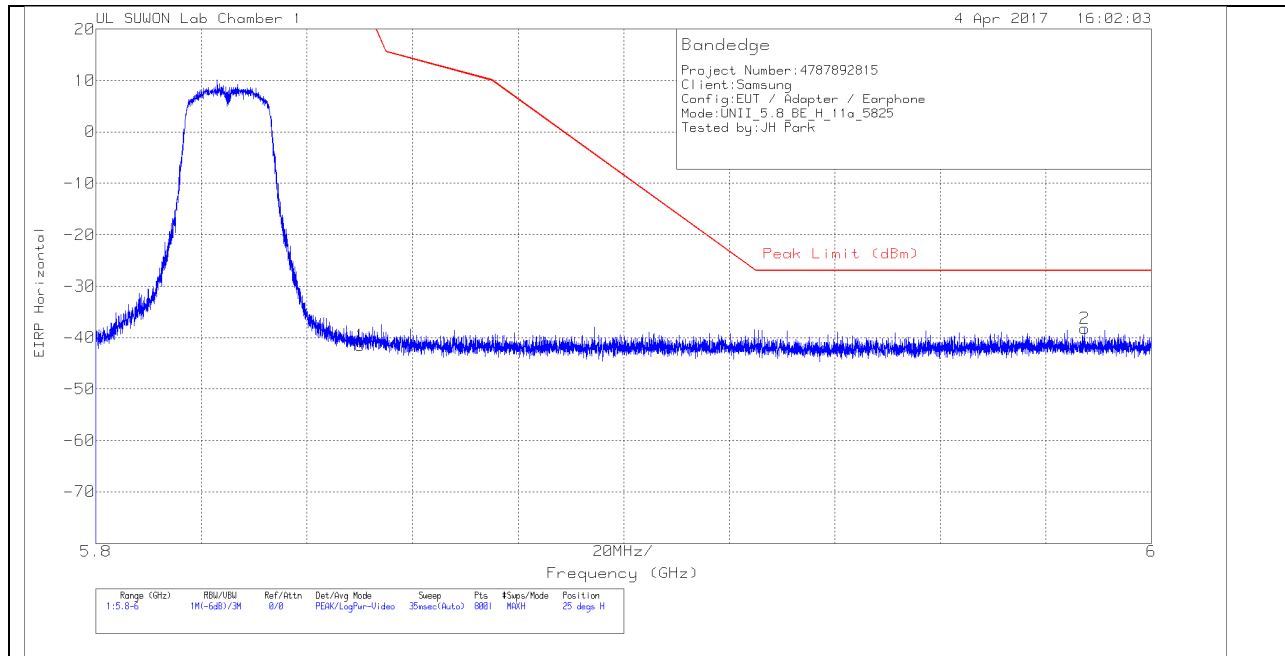
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117(0016 8717)_150 619	10dB_Att(dB)	Conversio n Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-63.17	Pk	34.8	-22.9	11.8	0	-39.47	26.97	-66.44	191	397	V
2	5.639	-62.79	Pk	34.8	-23	11.8	0	-39.19	-27	-12.19	191	397	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK PLOT



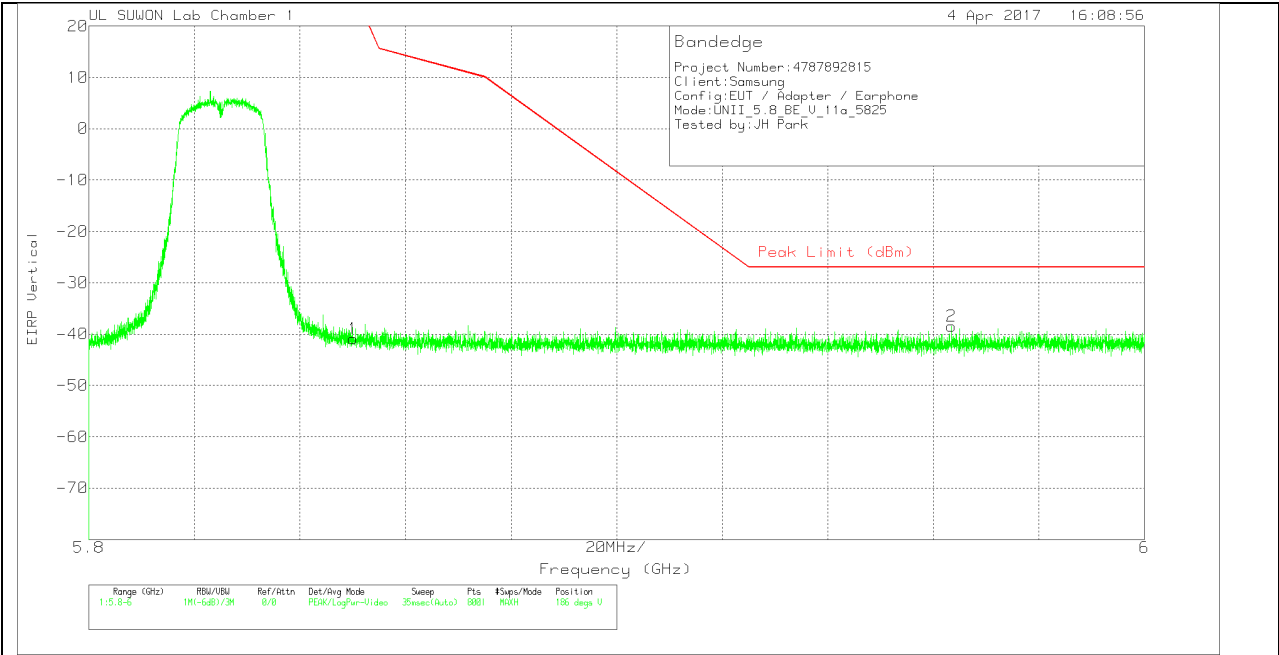
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117(0016 8717)_150 619	10dB_Att(dB)	Conversio n Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-65.89	Pk	34.9	-22.3	11.8	0	-41.49	26.94	-68.43	25	101	H
2	5.987	-62.52	Pk	34.9	-22.4	11.8	0	-38.22	-27	-11.22	25	101	H

Pk - Peak detector

VERTICAL PEAK PLOT



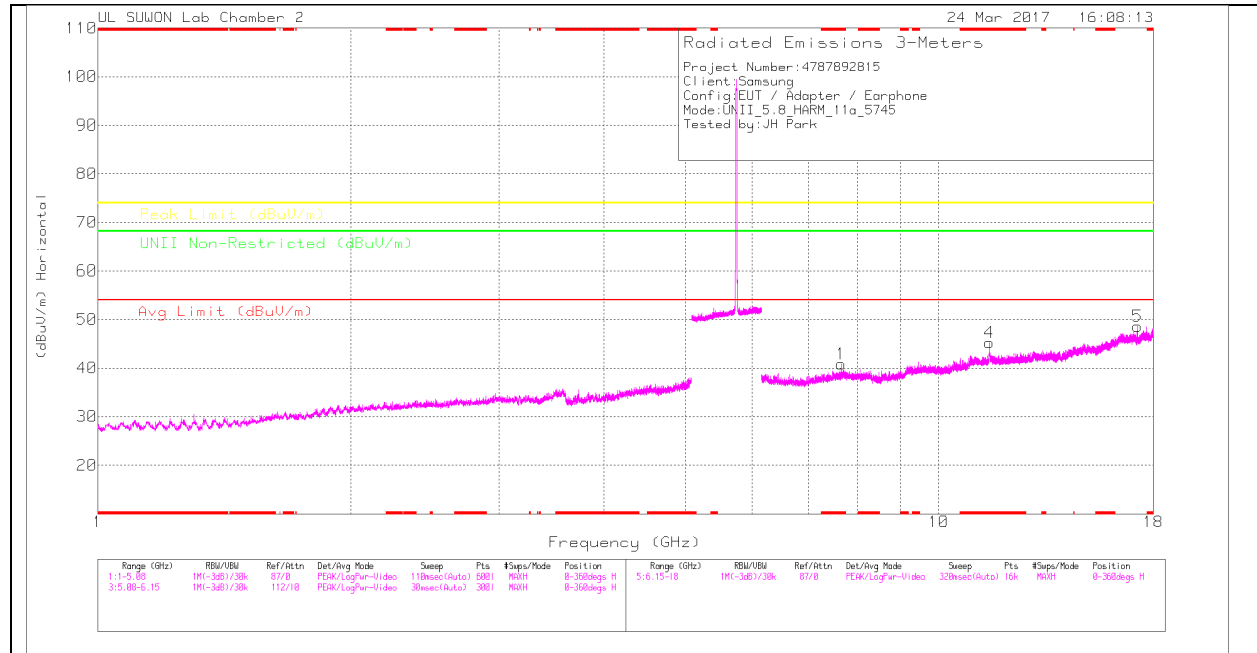
VERTICAL DATA

Trace Markers

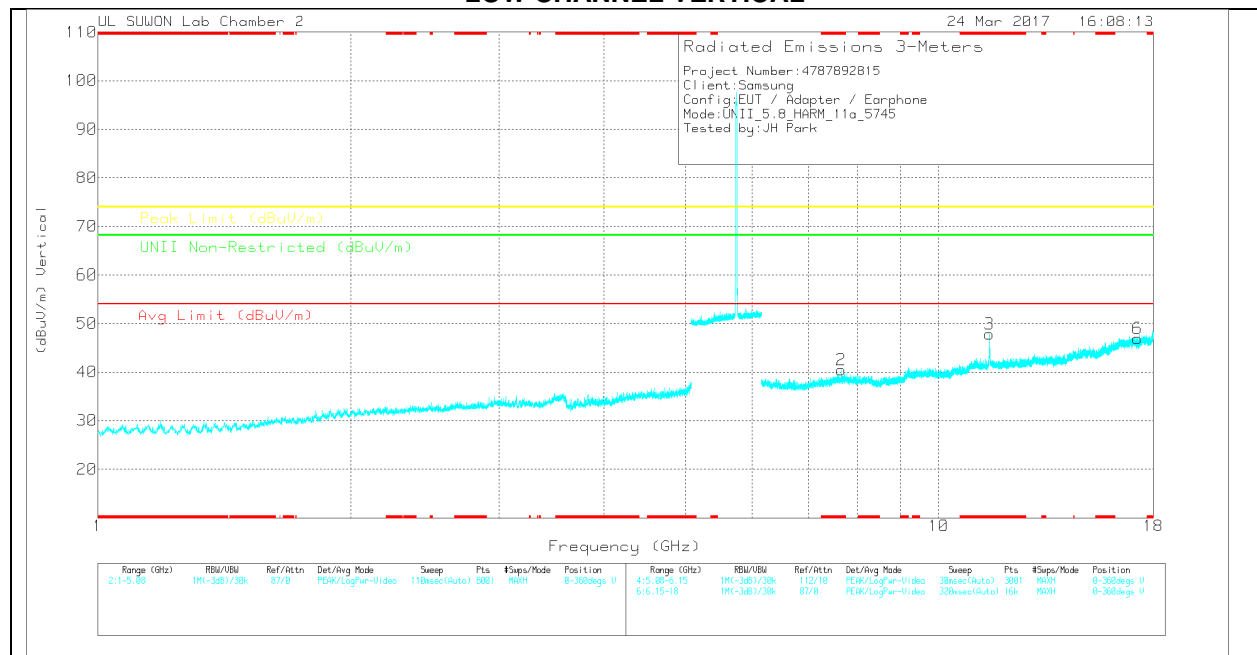
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117(0016 8717)_150 619	10dB_Att(dB)	Conversio n Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-65.32	Pk	34.9	-22.3	11.8	0	-40.92	26.94	-67.86	186	385	V
2	5.964	-62.5	Pk	34.9	-22.6	11.8	0	-38.4	-27	-11.4	186	385	V

Pk - Peak detector

LOW CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117/0016 8724, 150 619	6GHz_HP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 7.66	24.73	PK	36.1	-20	0	40.83	-	-	74	-33.17	-	-	0-360	250	H
4	* 11.491	22.8	PK	38.3	-15.9	0	45.2	-	-	74	-28.8	-	-	0-360	150	H
5	17.229	20.85	PK	41.2	-13.4	0	48.65	-	-	-	-	68.2	-19.55	0-360	150	H
2	* 7.66	24.3	PK	36.1	-20	0	40.4	-	-	74	-33.6	-	-	0-360	150	V
3	* 11.484	25.46	PK	38.3	-15.9	0	47.86	-	-	74	-26.14	-	-	0-360	250	V
6	17.238	19.15	PK	41.2	-13.4	0	46.95	-	-	-	-	68.2	-21.25	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

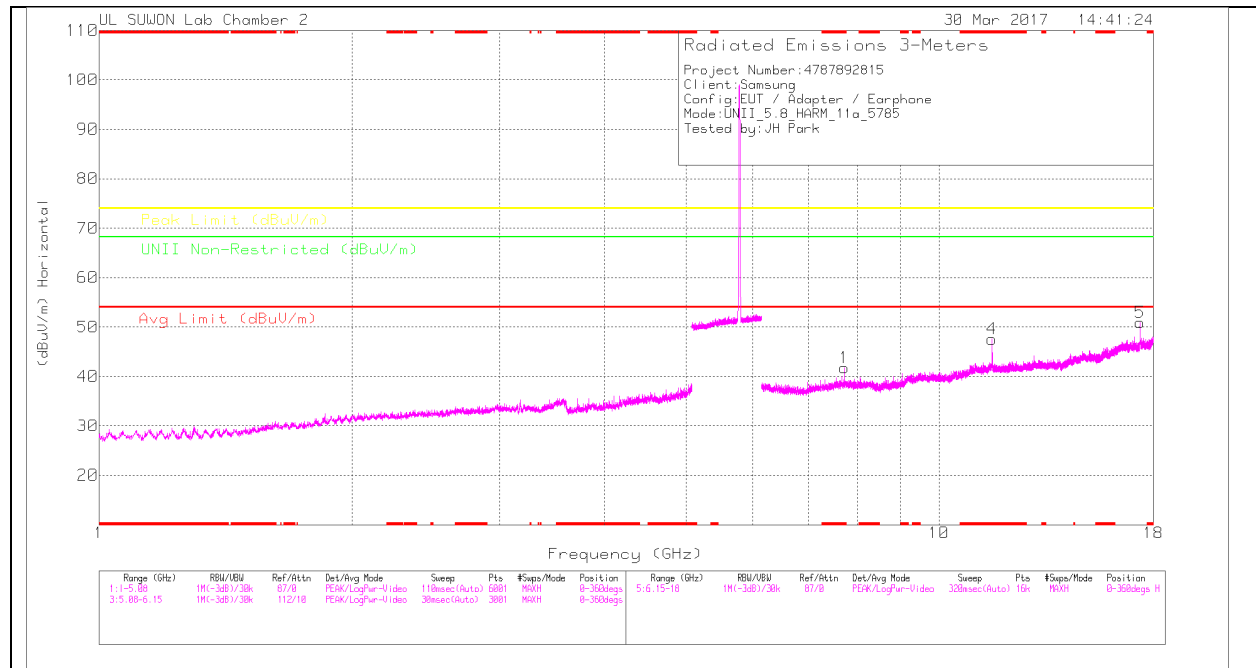
Frequency (GHz)	Meter Reading (dBuV)	Det	3117/001687 24, 150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.489	33.78	PK-U	38.3	-15.9	0	56.18	-	-	74	-17.82	-	-	179	143	H
* 11.489	20.85	ADR	38.3	-15.9	.28	43.53	54	-10.47	-	-	-	-	179	143	H
* 11.492	36.9	PK-U	38.3	-15.9	0	59.3	-	-	74	-14.7	-	-	179	175	V
* 11.489	21.89	ADR	38.3	-15.9	.28	44.57	54	-9.43	-	-	-	-	179	175	V

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

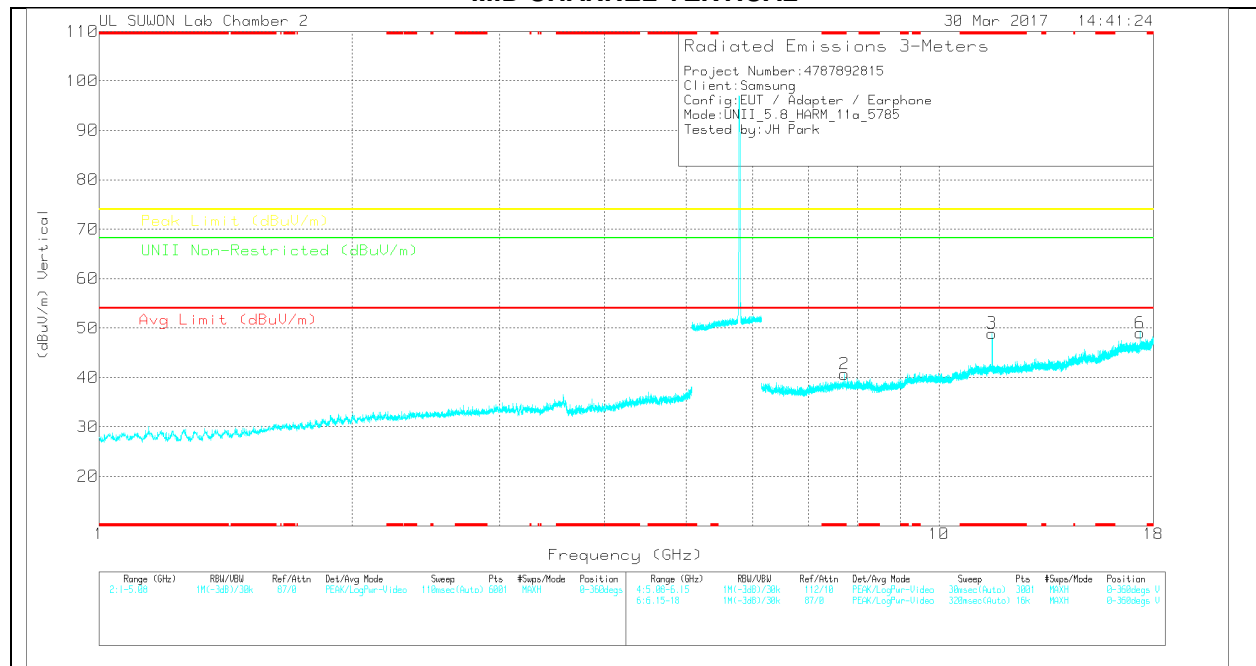
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117/0016 8724_150 619	6GHz_HP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 7.713	25.53	PK	36	-19.8	0	41.73	-	-	74	-32.27	-	-	0-360	150	H
4	* 11.568	25.06	PK	38.4	-15.9	0	47.56	-	-	74	-26.44	-	-	0-360	150	H
5	17.354	23	PK	41.2	-13.3	0	50.9	-	-	-	-	68.2	-17.3	0-360	250	H
2	* 7.713	24.49	PK	36	-19.8	0	40.69	-	-	74	-33.31	-	-	0-360	250	V
3	* 11.569	26.44	PK	38.4	-15.9	0	48.94	-	-	74	-25.06	-	-	0-360	150	V
6	17.356	21.09	PK	41.2	-13.3	0	48.99	-	-	-	-	68.2	-19.21	0-360	250	V

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

PK – Peak detector

Radiated Emissions

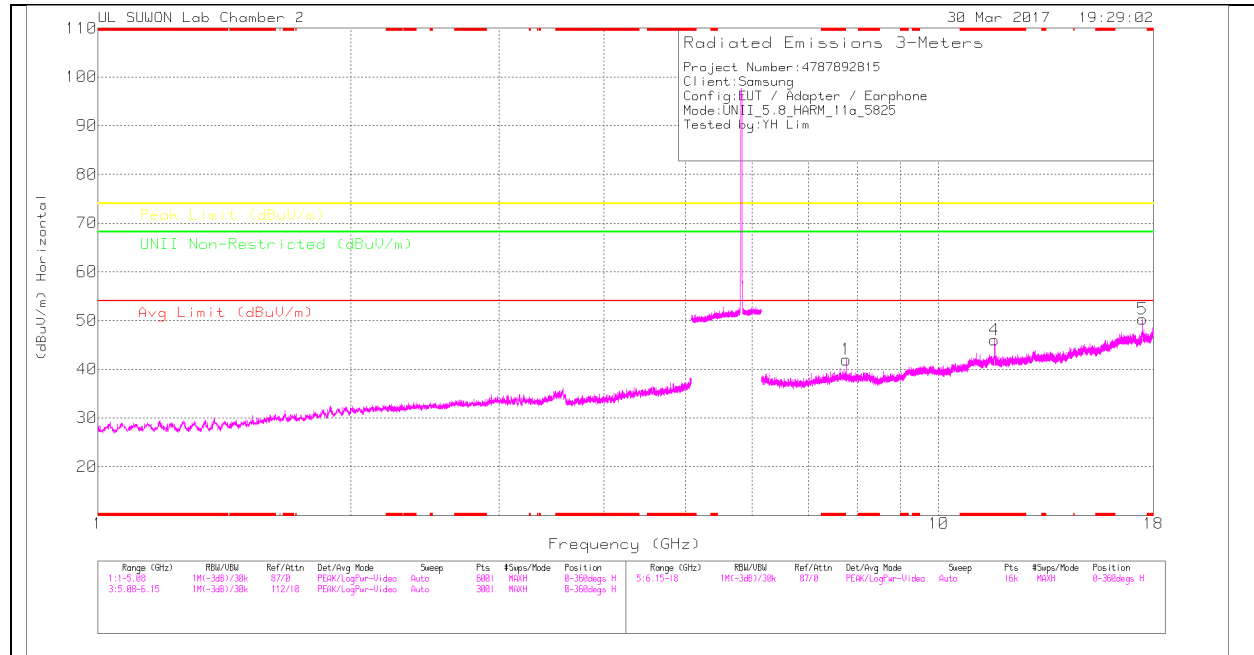
Frequency (GHz)	Meter Reading (dBuV)	Det	3117/001687 24_150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 7.713	34.49	PK-U	36	-19.8	0	50.69	-	-	74	-23.31	-	-	198	207	H
* 7.713	24.34	ADR	36	-19.8	0	40.54	54	-13.46	-	-	-	-	198	207	H
* 7.713	34.81	PK-U	36	-19.8	0	51.01	-	-	74	-22.99	-	-	177	169	V
* 7.713	22.86	ADR	36	-19.8	0	39.06	54	-14.94	-	-	-	-	177	169	V
* 11.57	36.52	PK-U	38.4	-15.9	0	59.02	-	-	74	-14.98	-	-	176	195	V
* 11.571	24.14	ADR	38.4	-15.9	.28	46.92	54	-7.08	-	-	-	-	176	195	V
* 11.571	35.89	PK-U	38.4	-15.9	0	58.39	-	-	74	-15.61	-	-	182	154	H
* 11.571	22.48	ADR	38.4	-15.9	.28	45.26	54	-8.74	-	-	-	-	182	154	H
17.352	36.54	PK-U	41.2	-13.2	0	64.54	-	-	-	-	68.2	-3.66	169	196	H
17.352	33.22	PK-U	41.2	-13.2	0	61.22	-	-	-	-	68.2	-6.98	149	160	V

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

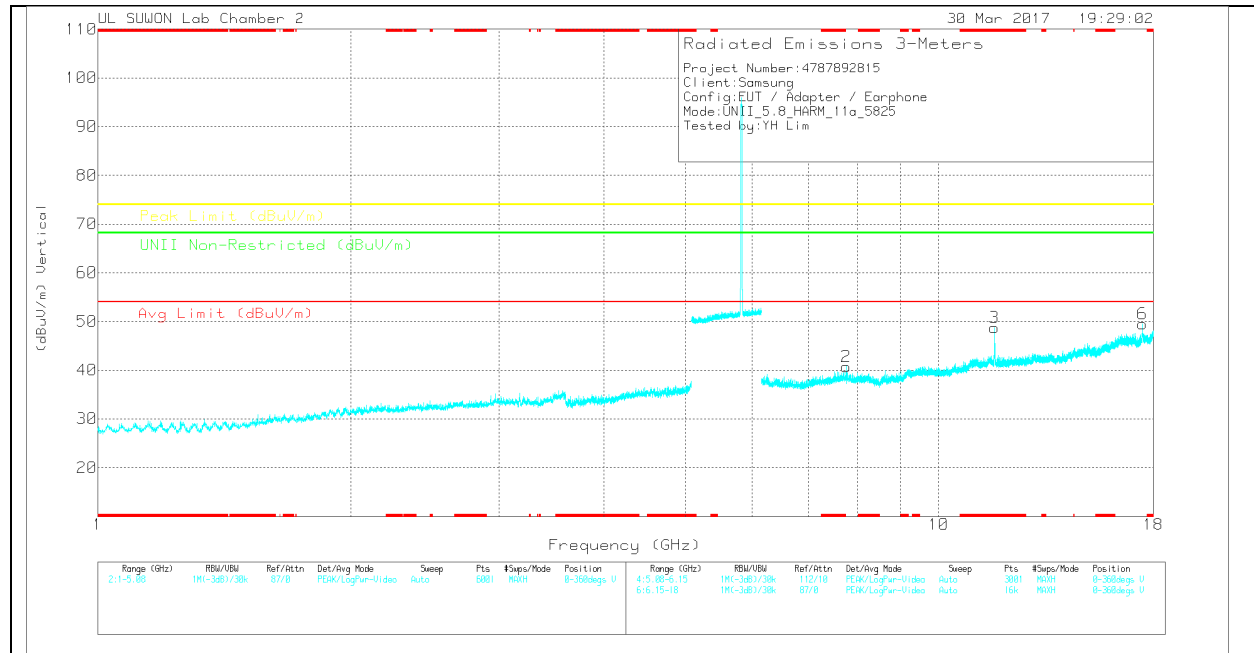
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[0016 8724], 150 619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.767	26.25	PK	36	-20.3	0	41.95	-	-	-	-	68.2	-26.25	0-360	250	H
4	* 11.647	23.26	PK	38.4	-15.7	0	45.96	-	-	74	-28.04	-	-	0-360	150	H
5	17.48	21.31	PK	41.3	-12.3	0	50.31	-	-	-	-	68.2	-17.89	0-360	150	H
2	7.766	24.96	PK	36	-20.2	0	40.76	-	-	-	-	68.2	-27.44	0-360	150	V
3	* 11.648	26.04	PK	38.4	-15.7	0	48.74	-	-	74	-25.26	-	-	0-360	150	V
6	17.475	20.4	PK	41.3	-12.2	0	49.5	-	-	-	-	68.2	-18.7	0-360	150	V

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

PK – Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117[001687 24], 150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7.766	34.62	PK-U	36	-20.3	0	50.32	-	-	-	-	68.2	-17.88	188	169	H
7.767	34.42	PK-U	36	-20.3	0	50.12	-	-	-	-	68.2	-18.08	148	130	V
* 11.646	36.6	PK-U	38.4	-15.8	0	59.2	-	-	74	-14.8	-	-	174	173	V
* 11.651	24.86	ADR	38.4	-15.7	.28	47.84	54	-6.16	-	-	-	-	174	173	V
* 11.65	34.84	PK-U	38.4	-15.7	0	57.54	-	-	74	-16.46	-	-	188	179	H
* 11.651	22.31	ADR	38.4	-15.7	.28	45.29	54	-8.71	-	-	-	-	188	179	H
17.472	34.72	PK-U	41.3	-12.3	0	63.72	-	-	-	-	68.2	-4.48	187	153	H
17.472	32.92	PK-U	41.3	-12.3	0	61.92	-	-	-	-	68.2	-6.28	145	153	V

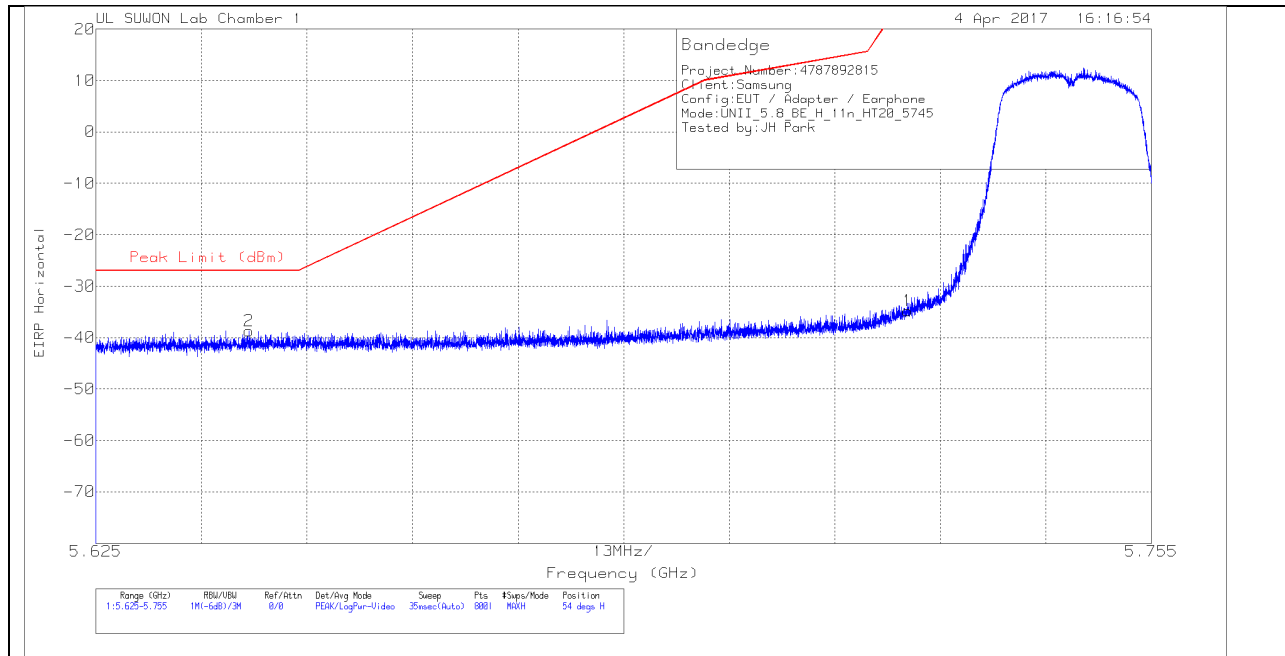
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

HORIZONTAL PEAK PLOT



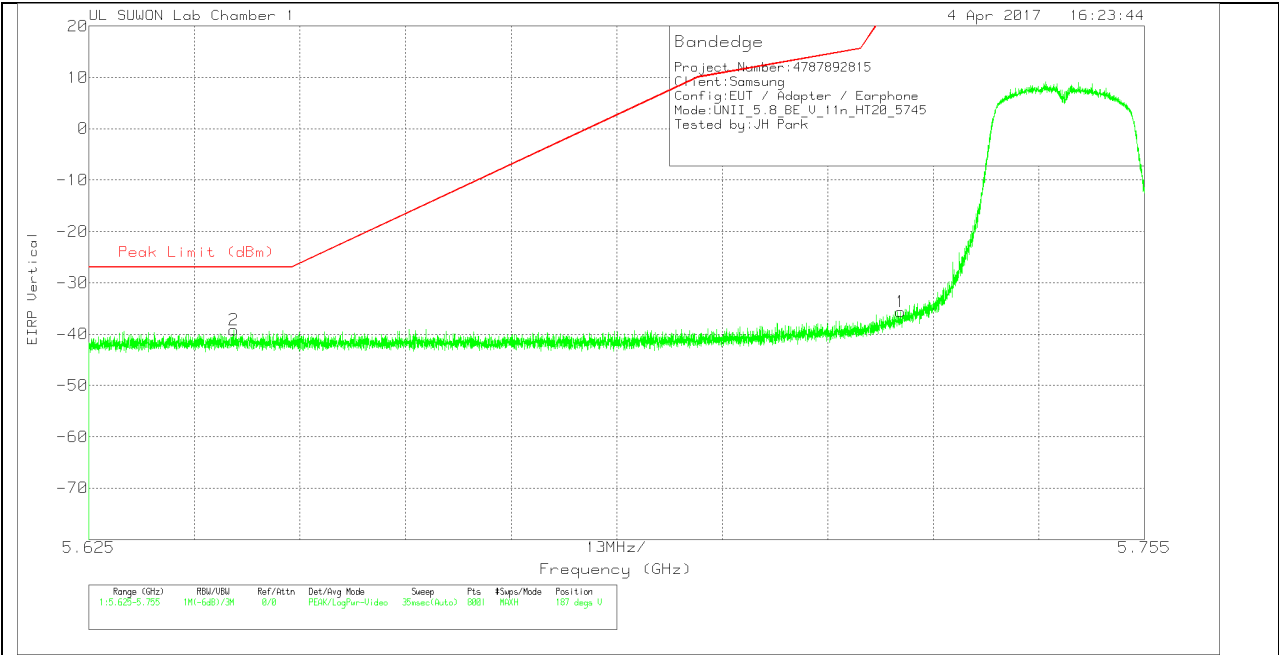
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117(0016 8717)_150 619	10dB_Att(dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-58.44	Pk	34.8	-22.9	11.8	0	-34.74	26.97	-61.71	54	100	H
2	5.644	-62.21	Pk	34.8	-23.1	11.8	0	-38.71	-27	-11.71	54	100	H

Pk - Peak detector

VERTICAL PEAK PLOT



VERTICAL DATA

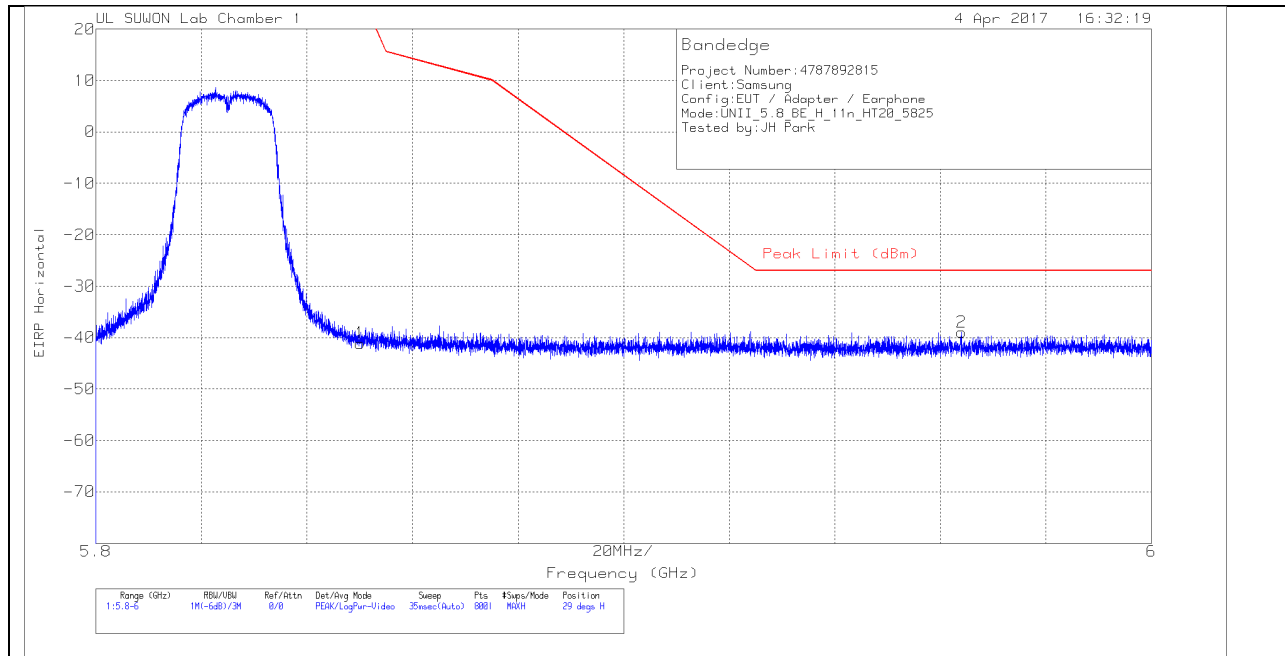
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117(0016 8717)_150 619	10dB_Att(dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-59.37	Pk	34.8	-22.9	11.8	0	-35.67	26.97	-62.64	187	400	V
2	5.643	-62.69	Pk	34.8	-23.1	11.8	0	-39.19	-27	-12.19	187	400	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



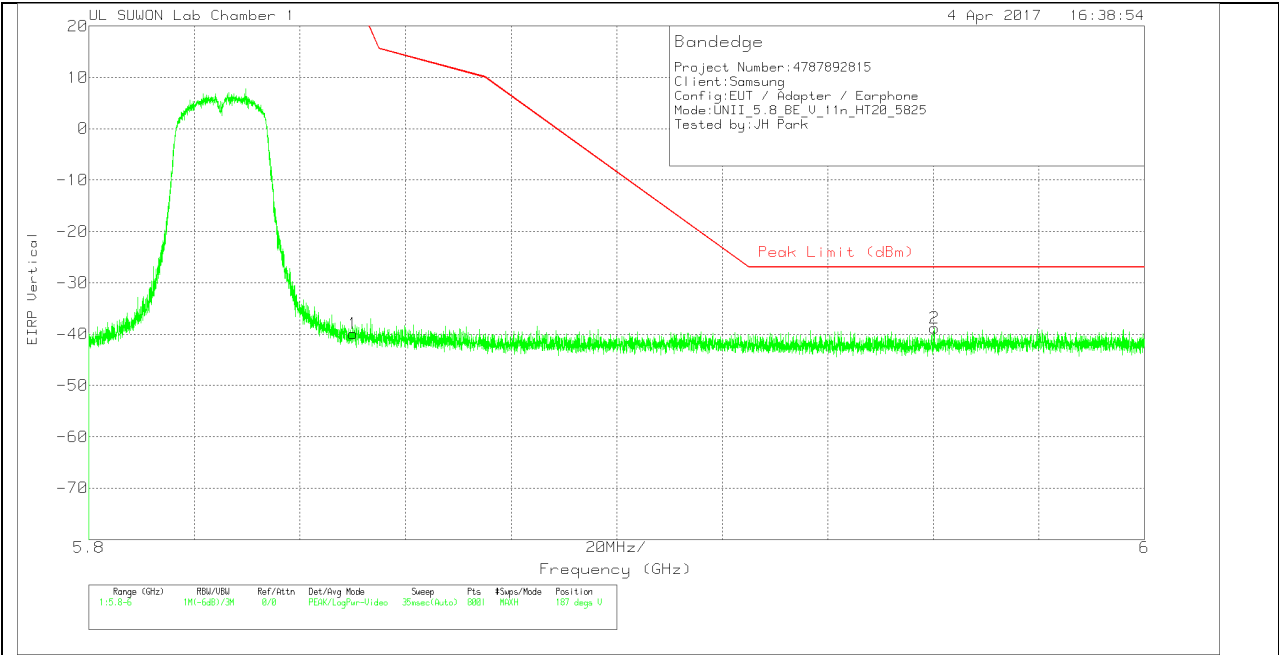
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117(0016 8717)_150 619	10dB_Att(dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-65.48	Pk	34.9	-22.3	11.8	0	-41.08	26.94	-68.02	29	102	H
2	5.964	-63.08	Pk	34.9	-22.6	11.8	0	-38.98	-27	-11.98	29	102	H

Pk - Peak detector

VERTICAL PEAK PLOT



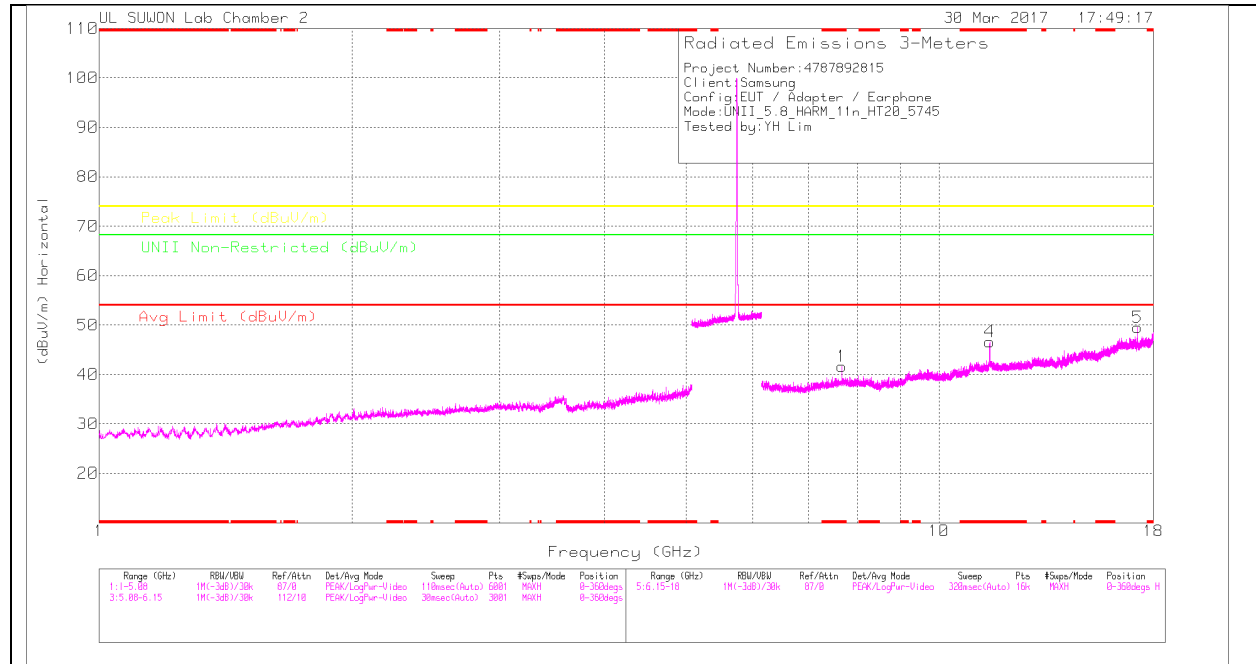
VERTICAL DATA

Trace Markers

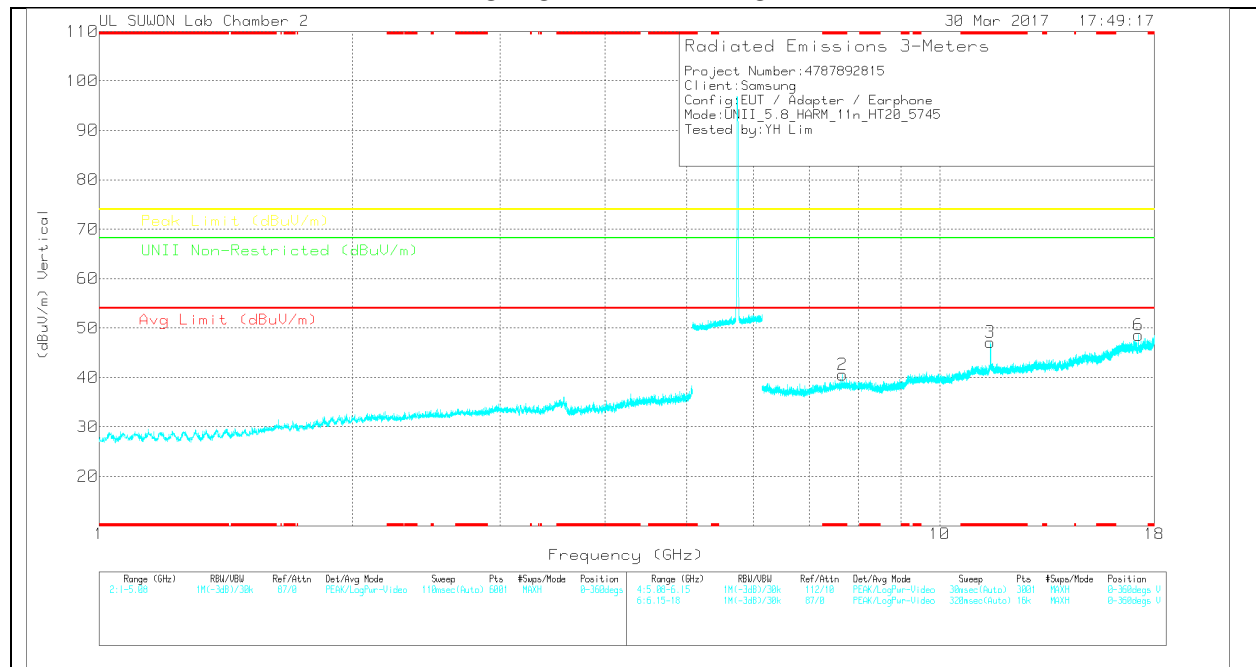
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117(0016 8717)_150 619	10dB_Att(dB)	Conversio n Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-64.36	Pk	34.9	-22.3	11.8	0	-39.96	26.94	-66.9	187	385	V
2	5.96	-62.87	Pk	34.9	-22.7	11.8	0	-38.87	-27	-11.87	187	385	V

Pk - Peak detector

LOW CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[0016 8724], 150 619	6GHz_HP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 7.66	25.54	PK	36.1	-20	0	41.64	-	-	74	-32.36	-	-	0-360	250	H
4	* 11.493	24.22	PK	38.3	-15.9	0	46.62	-	-	74	-27.38	-	-	0-360	150	H
5	17.232	21.7	PK	41.2	-13.4	0	49.5	-	-	-	-	68.2	-18.7	0-360	150	H
2	* 7.66	24.46	PK	36.1	-20	0	40.56	-	-	74	-33.44	-	-	0-360	150	V
3	* 11.49	24.73	PK	38.3	-15.9	0	47.13	-	-	74	-26.87	-	-	0-360	250	V
6	17.24	20.79	PK	41.2	-13.4	0	48.59	-	-	-	-	68.2	-19.61	0-360	150	V

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

PK – Peak detector

Radiated Emissions

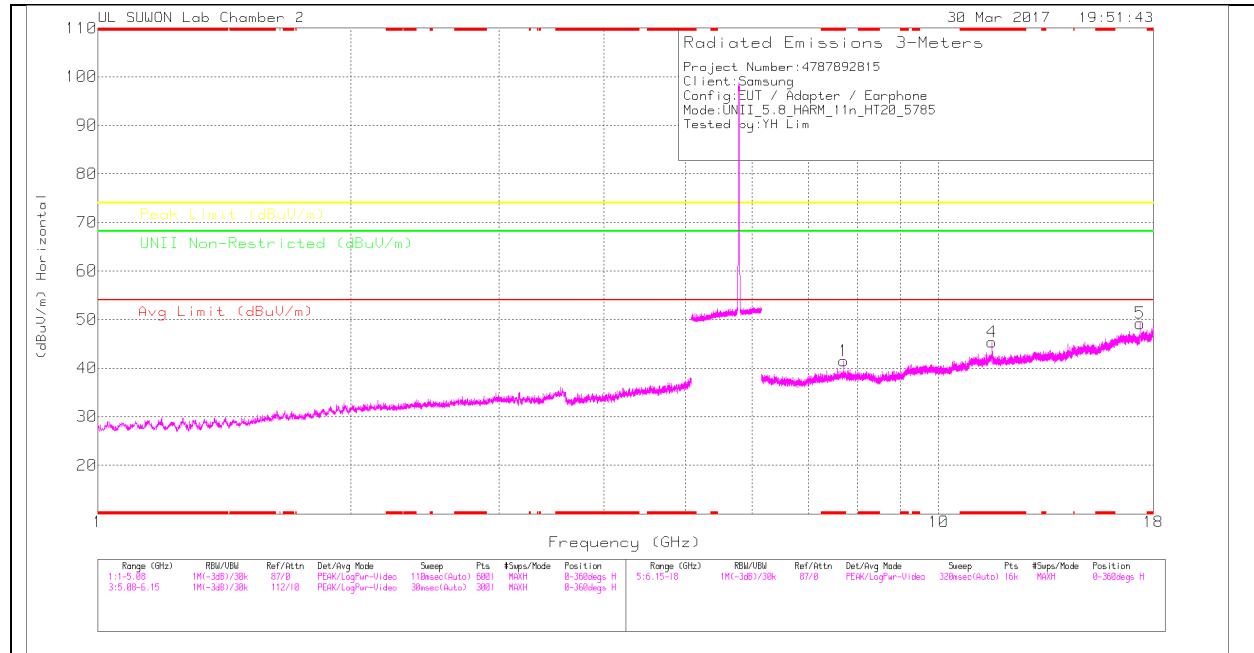
Frequency (GHz)	Meter Reading (dBuV)	Det	3117[001687 24], 150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 7.66	34.68	PK-U	36.1	-20	0	50.78	-	-	74	-23.22	-	-	208	229	H
* 7.66	34.26	PK-U	36.1	-20	0	50.36	-	-	74	-23.64	-	-	148	132	V
* 11.495	35.19	PK-U	38.3	-15.9	0	57.59	-	-	74	-16.41	-	-	176	150	V
* 11.489	22.67	ADR	38.3	-15.9	.3	45.37	54	-8.63	-	-	-	-	176	150	V
* 11.489	34.23	PK-U	38.3	-15.9	0	56.63	-	-	74	-17.37	-	-	173	162	H
* 11.489	21.41	ADR	38.3	-15.9	.3	44.11	54	-9.89	-	-	-	-	173	162	H
17.24	35.82	PK-U	41.2	-13.4	0	63.62	-	-	-	-	68.2	-4.58	183	141	H
17.225	32.05	PK-U	41.2	-13.5	0	59.75	-	-	-	-	68.2	-8.45	140	149	V

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

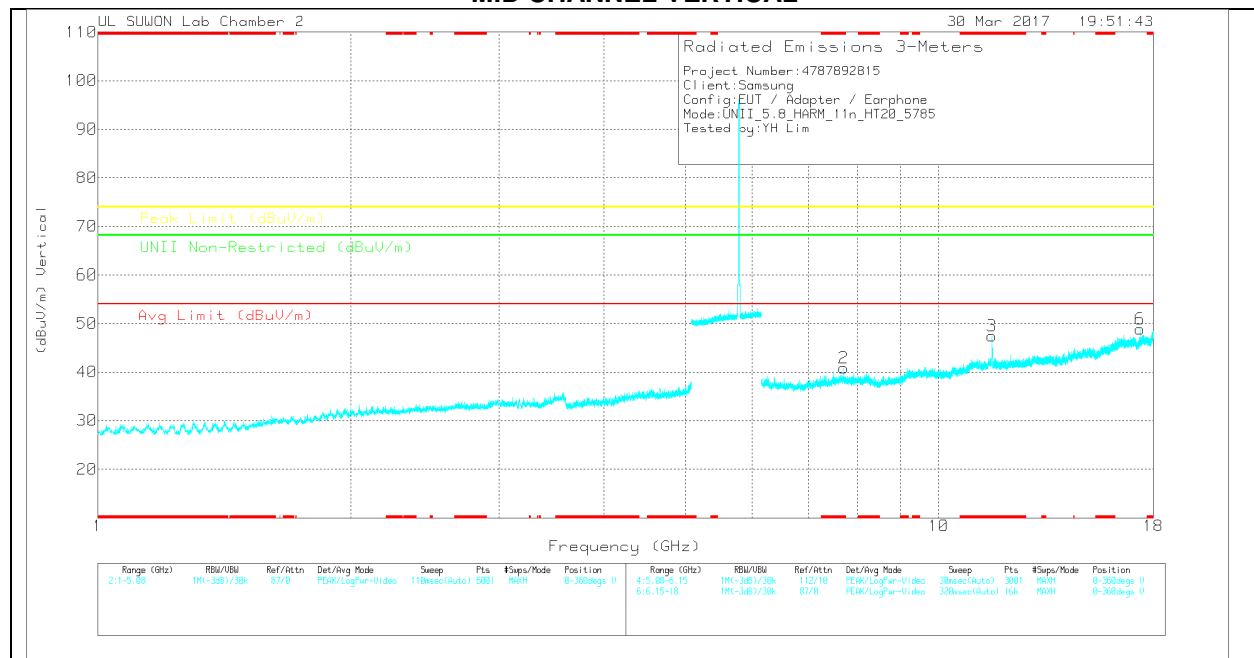
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117/0016 8724_150 619	6GHz_HP[d B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 7.713	25.32	PK	36	-19.8	0	41.52	-	-	74	-32.48	-	-	0-360	250	H
4	* 11.567	22.82	PK	38.4	-15.9	0	45.32	-	-	74	-28.68	-	-	0-360	150	H
5	17.356	21.29	PK	41.2	-13.3	0	49.19	-	-	-	-	68.2	-19.01	0-360	150	H
2	* 7.713	24.65	PK	36	-19.8	0	40.85	-	-	74	-33.15	-	-	0-360	150	V
3	* 11.576	24.92	PK	38.4	-15.9	0	47.42	-	-	74	-26.58	-	-	0-360	150	V
6	17.356	21.02	PK	41.2	-13.3	0	48.92	-	-	-	-	68.2	-19.28	0-360	250	V

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

PK – Peak detector

Radiated Emissions

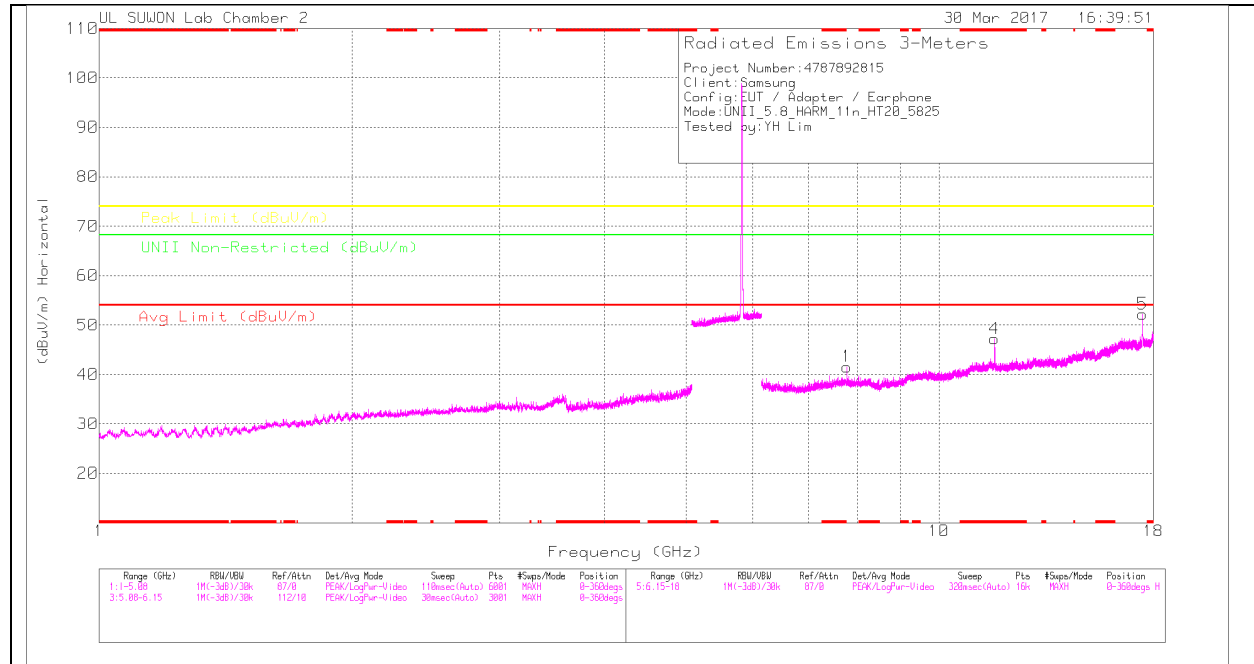
Frequency (GHz)	Meter Reading (dBuV)	Det	3117/001687 24_150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 7.714	33.97	PK-U	36	-19.8	0	50.17	-	-	74	-23.83	-	-	189	225	H
* 7.713	24.76	ADR	36	-19.8	0	40.96	54	-13.04	-	-	-	-	189	225	H
* 7.713	34.25	PK-U	36	-19.8	0	50.45	-	-	74	-23.55	-	-	148	123	V
* 7.713	23.79	ADR	36	-19.8	0	39.99	54	-14.01	-	-	-	-	148	123	V
* 11.568	35.82	PK-U	38.4	-15.9	0	58.32	-	-	74	-15.68	-	-	170	321	V
* 11.569	23.18	ADR	38.4	-15.9	.3	45.98	54	-8.02	-	-	-	-	170	321	V
* 11.572	34.66	PK-U	38.4	-15.9	0	57.16	-	-	74	-16.84	-	-	173	154	H
* 11.571	22.56	ADR	38.4	-15.9	.3	45.36	54	-8.64	-	-	-	-	173	154	H
17.352	35.79	PK-U	41.2	-13.2	0	63.79	-	-	-	-	68.2	-4.41	183	140	H
17.356	32.64	PK-U	41.2	-13.3	0	60.54	-	-	-	-	68.2	-7.66	228	278	V

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

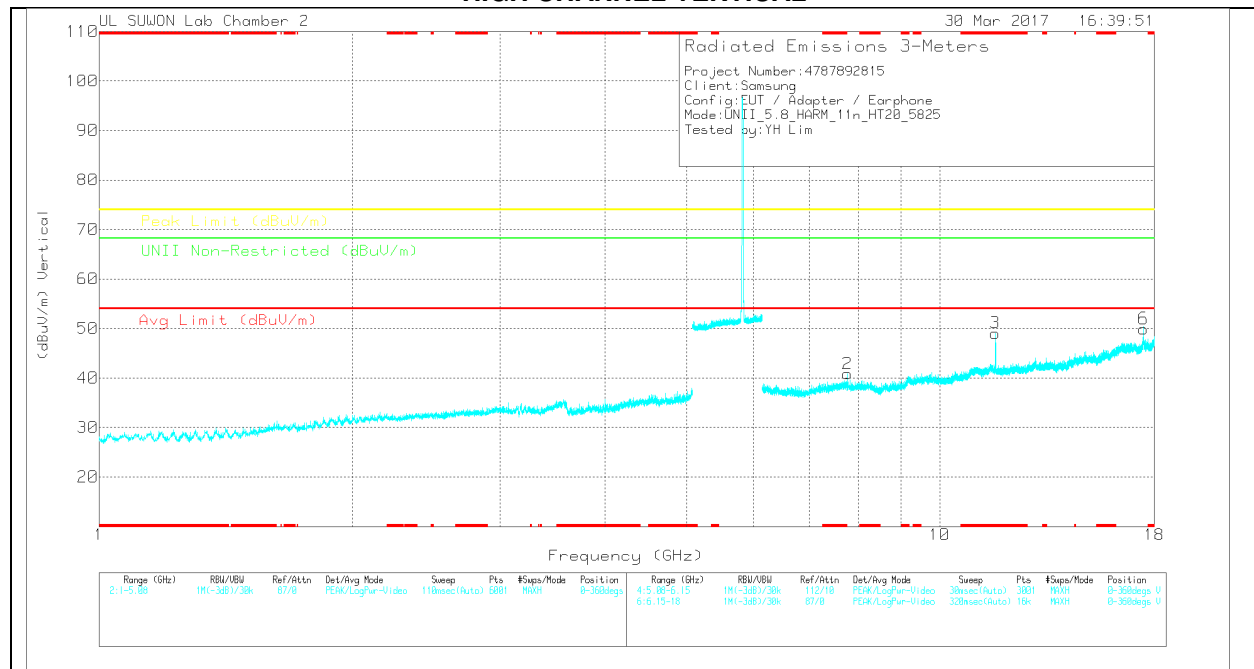
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168724)_150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.767	25.87	PK	36	-20.3	0	41.57	-	-	-	-	68.2	-26.63	0-360	150	H
4	* 11.649	24.53	PK	38.4	-15.7	0	47.23	-	-	74	-26.77	-	-	0-360	150	H
5	17.476	23.11	PK	41.3	-12.2	0	52.21	-	-	-	-	68.2	-15.99	0-360	150	H
2	7.766	25.05	PK	36	-20.2	0	40.85	-	-	-	-	68.2	-27.35	0-360	150	V
3	* 11.65	26.37	PK	38.4	-15.7	0	49.07	-	-	74	-24.93	-	-	0-360	150	V
6	17.472	20.94	PK	41.3	-12.3	0	49.94	-	-	-	-	68.2	-18.26	0-360	150	V

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

PK – Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168724)_150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7.766	34.56	PK-U	36	-20.3	0	50.26	-	-	-	-	68.2	-17.94	145	132	V
7.767	34.79	PK-U	36	-20.3	0	50.49	-	-	-	-	68.2	-17.71	207	229	H
* 11.645	36.08	PK-U	38.4	-15.8	0	58.68	-	-	74	-15.32	-	-	174	164	H
* 11.649	23.4	ADR	38.4	-15.7	.3	46.4	54	-7.6	-	-	-	-	174	164	H
* 11.655	37.07	PK-U	38.5	-15.8	0	59.77	-	-	74	-14.23	-	-	171	191	V
* 11.651	24.5	ADR	38.4	-15.7	.3	47.5	54	-6.5	-	-	-	-	171	191	V
17.48	35.73	PK-U	41.3	-12.3	0	64.73	-	-	-	-	68.2	-3.47	183	141	H
17.47	34.33	PK-U	41.3	-12.4	0	63.23	-	-	-	-	68.2	-4.97	145	149	V

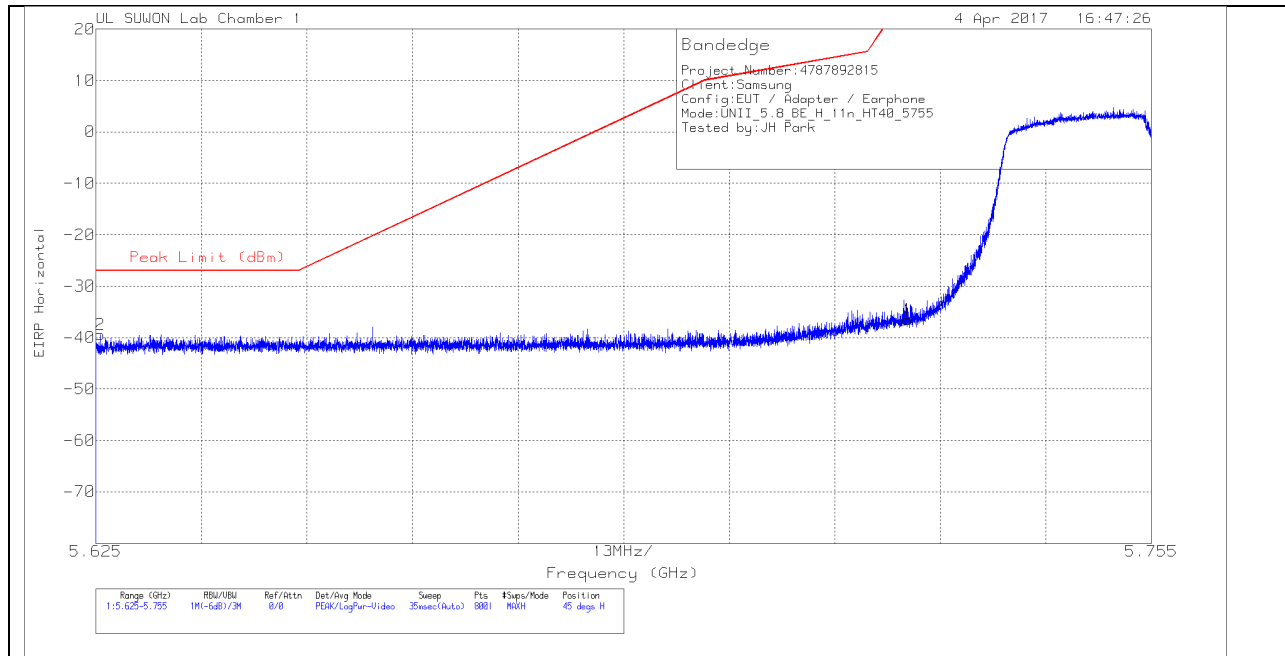
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

HORIZONTAL PEAK PLOT



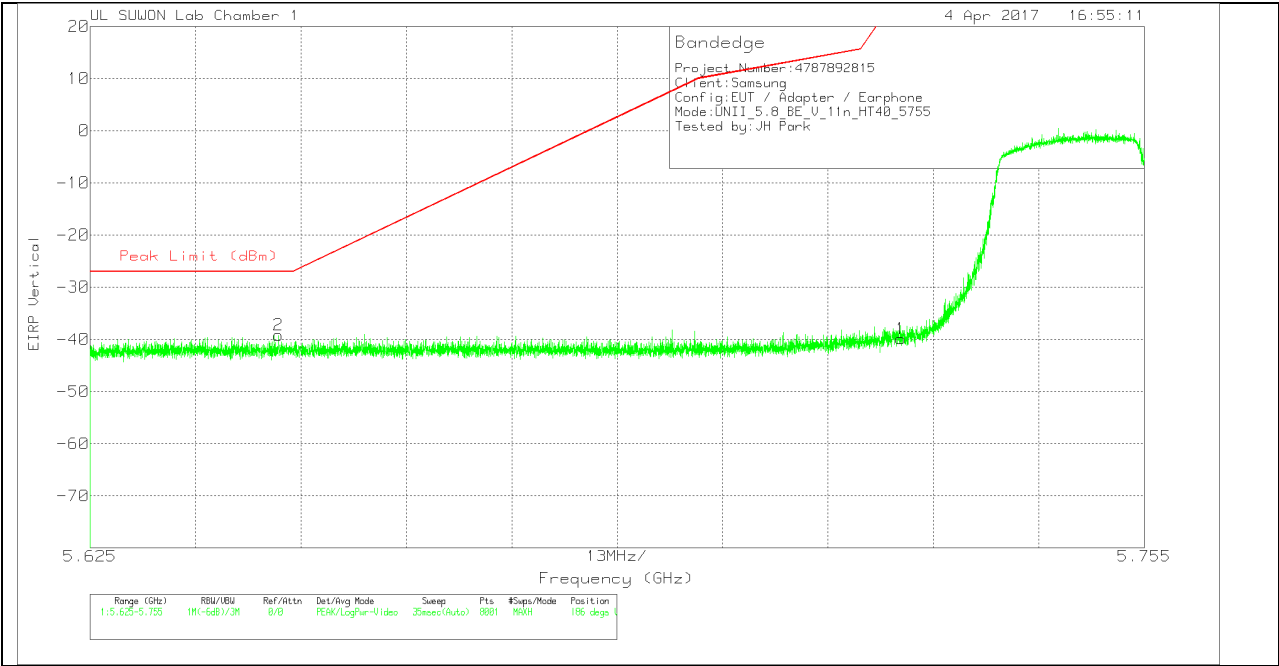
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117(0016 8717)_150 619	10dB_Att(dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-60.19	Pk	34.8	-22.9	11.8	0	-36.49	26.97	-63.46	45	100	H
2	5.626	-62.61	Pk	34.7	-23.3	11.8	0	-39.41	-27	-12.41	45	100	H

Pk - Peak detector

VERTICAL PEAK PLOT



VERTICAL DATA

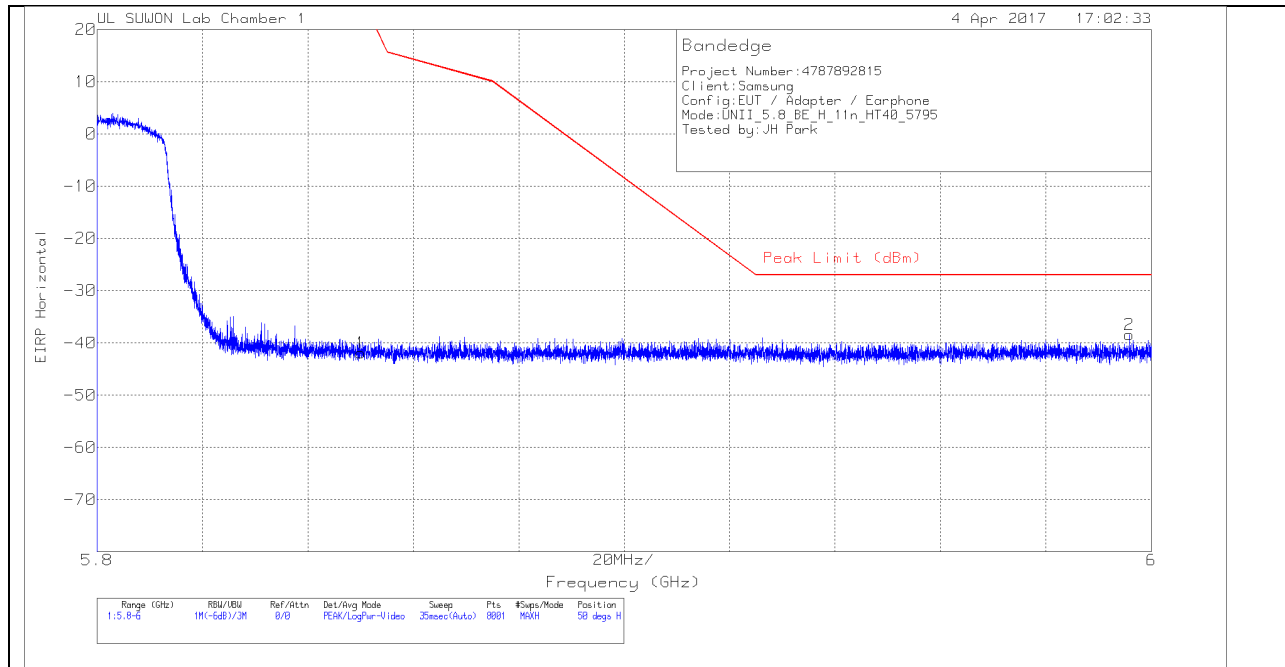
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117(0016 8717)_150 619	10dB_Att(dB)	Conversio n Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-63.6	Pk	34.8	-22.9	11.8	0	-39.9	26.97	-66.87	186	400	V
2	5.648	-62.8	Pk	34.8	-23	11.8	0	-39.2	-27	-12.2	186	400	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK PLOT



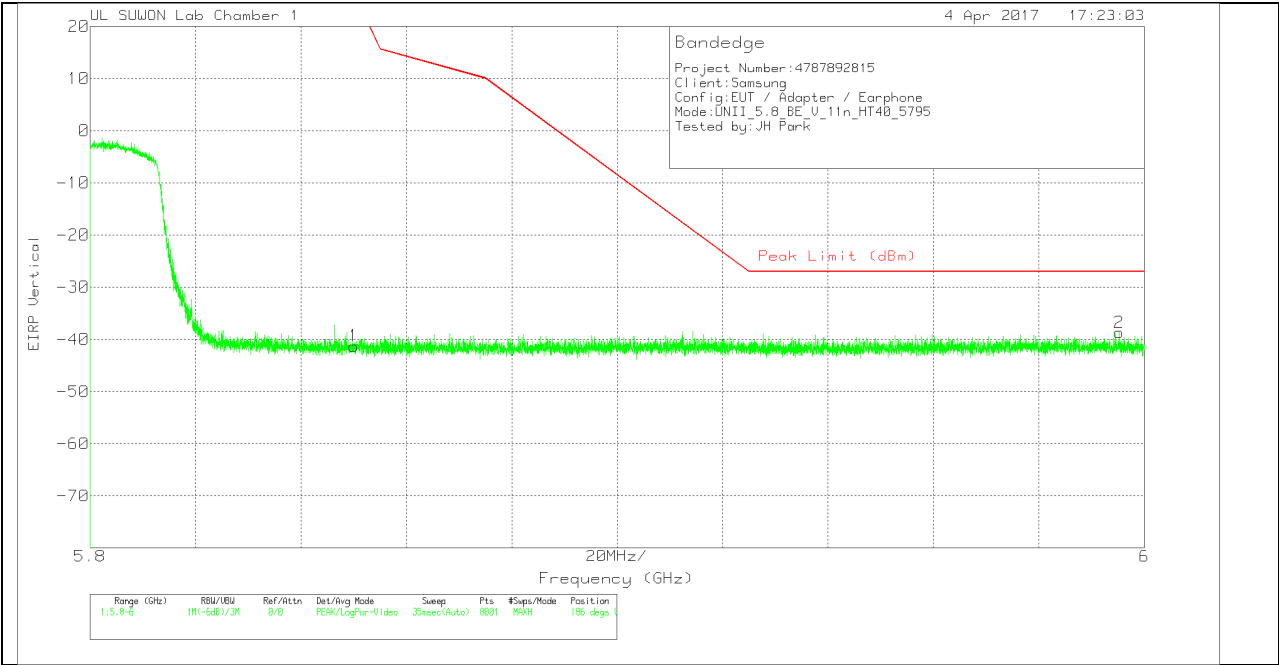
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117(0016 8717)_150 619	10dB_Att(dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-66.33	Pk	34.9	-22.3	11.8	0	-41.93	26.94	-68.87	50	100	H
2	5.996	-62.85	Pk	34.9	-22.3	11.8	0	-38.45	-27	-11.45	50	100	H

Pk - Peak detector

VERTICAL PEAK PLOT



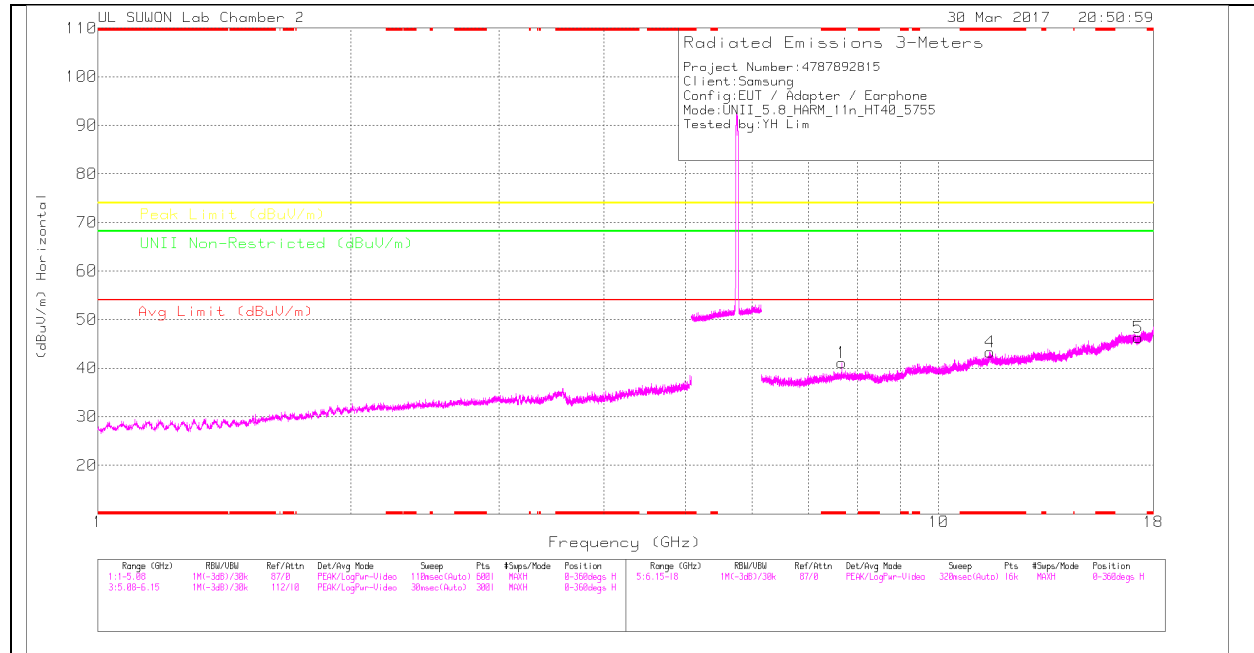
VERTICAL DATA

Trace Markers

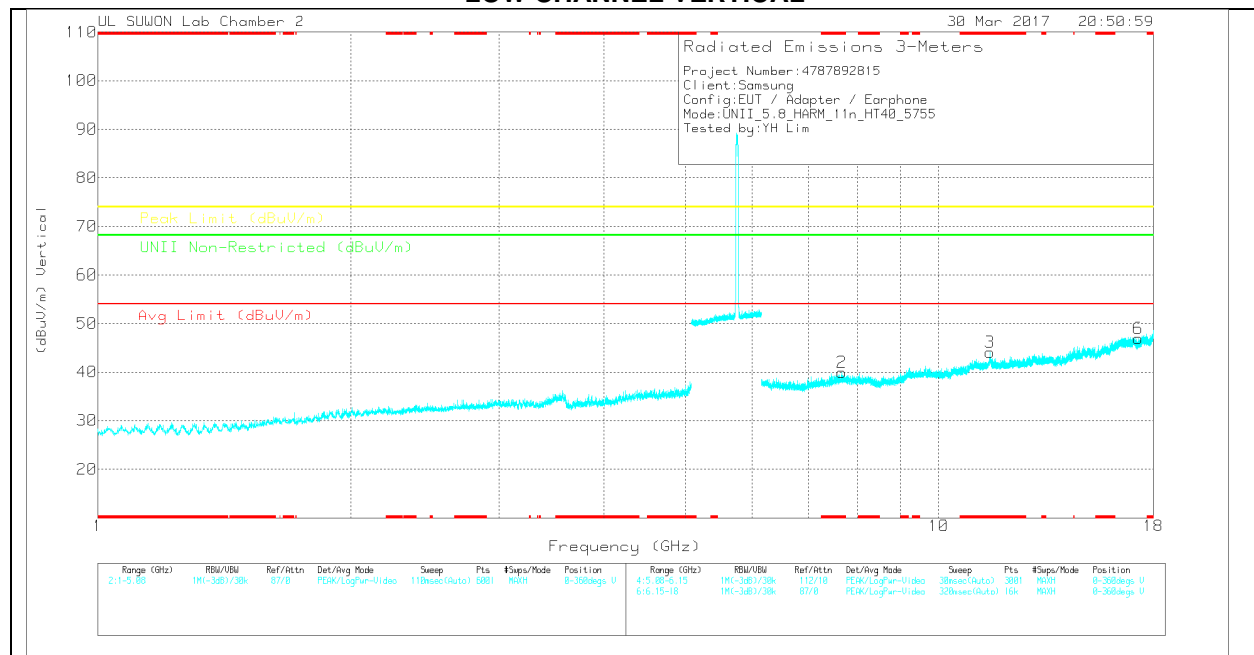
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117(0016 8717)_150 619	10dB_Att(dB)	Conversio n Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-65.66	Pk	34.9	-22.3	11.8	0	-41.26	26.94	-68.2	186	387	V
2	5.995	-63.08	Pk	34.9	-22.3	11.8	0	-38.68	-27	-11.68	186	387	V

Pk - Peak detector

LOW CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117/0016 8724, 150 619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 7.673	25.1	PK	36	-20	0	41.1	-	-	74	-32.9	-	-	0-360	250	H
4	* 11.514	20.79	PK	38.4	-15.9	0	43.29	-	-	74	-30.71	-	-	0-360	150	H
5	17.272	18.51	PK	41.2	-13.4	0	46.31	-	-	-	-	68.2	-21.89	0-360	250	H
2	* 7.673	23.96	PK	36	-20	0	39.96	-	-	74	-34.04	-	-	0-360	150	V
3	* 11.505	21.52	PK	38.3	-15.8	0	44.02	-	-	74	-29.98	-	-	0-360	250	V
6	17.258	19.11	PK	41.2	-13.4	0	46.91	-	-	-	-	68.2	-21.29	0-360	250	V

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

PK – Peak detector

Radiated Emissions

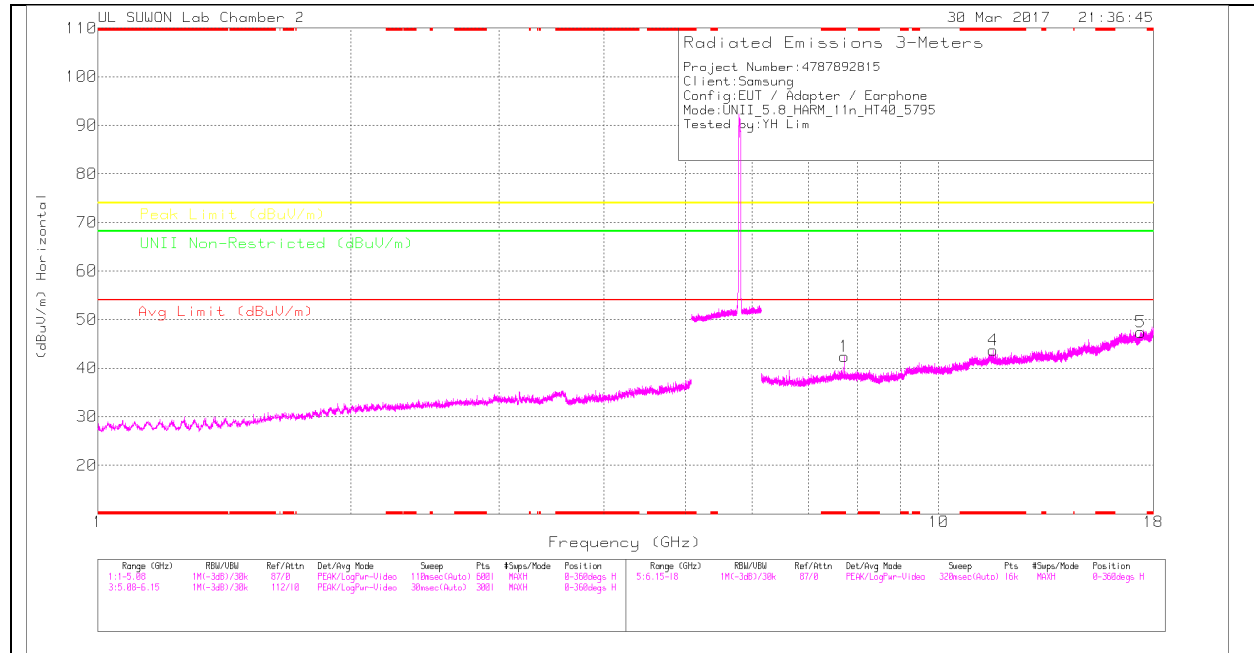
Frequency (GHz)	Meter Reading (dBuV)	Det	3117/001687 24, 150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 7.674	34.82	PK-U	36	-20	0	50.82	-	-	74	-23.18	-	-	191	222	H
* 7.673	24.18	ADR	36	-20	0	40.18	54	-13.82	-	-	-	-	191	222	H
* 7.673	34.25	PK-U	36	-20	0	50.25	-	-	74	-23.75	-	-	160	139	V
* 7.673	24.08	ADR	36	-20	0	40.08	54	-13.92	-	-	-	-	160	139	V
* 11.51	32.2	PK-U	38.3	-15.9	0	54.6	-	-	74	-19.4	-	-	178	174	V
* 11.518	19.36	ADR	38.4	-15.9	.56	42.42	54	-11.58	-	-	-	-	178	174	V
* 11.518	31	PK-U	38.4	-15.9	0	53.5	-	-	74	-20.5	-	-	163	149	H
* 11.511	16.92	ADR	38.3	-15.9	.56	39.88	54	-14.12	-	-	-	-	163	149	H

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

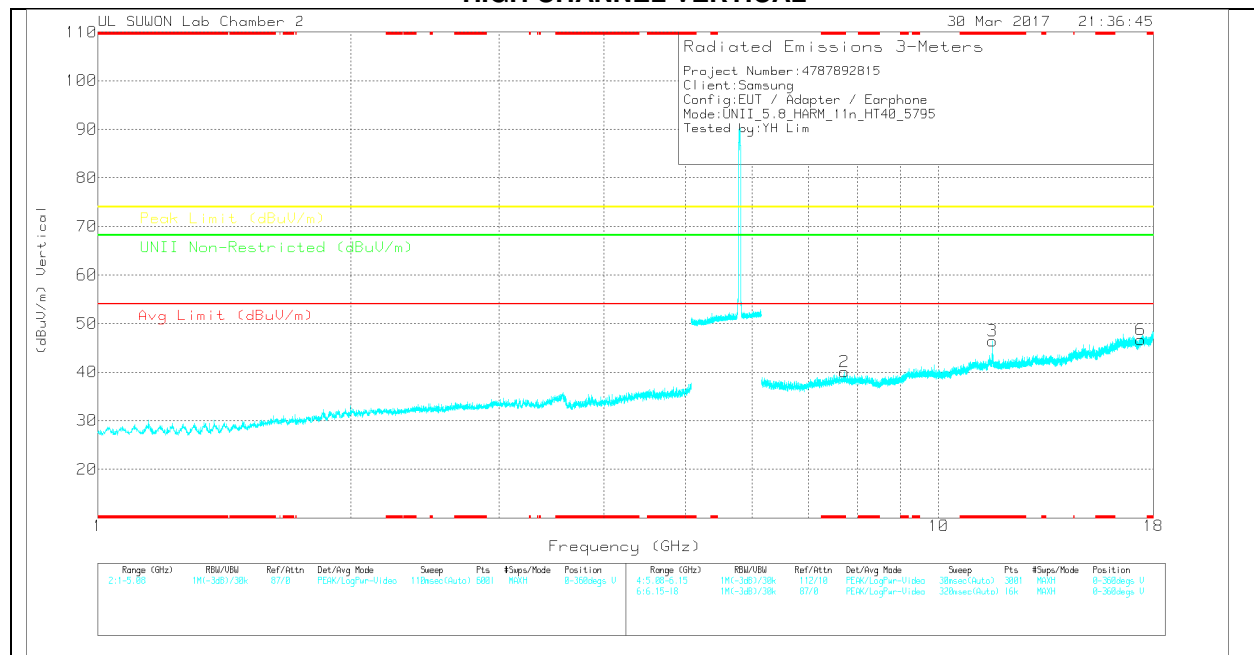
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[0016 8724], 150 619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 7.727	26.14	PK	36	-19.8	0	42.34	-	-	74	-31.66	-	-	0-360	250	H
4	* 11.598	21.11	PK	38.4	-15.8	0	43.71	-	-	74	-30.29	-	-	0-360	150	H
5	17.388	19.18	PK	41.2	-13	0	47.38	-	-	-	-	68.2	-20.82	0-360	250	H
2	* 7.727	23.88	PK	36	-19.8	0	40.08	-	-	74	-33.92	-	-	0-360	150	V
3	* 11.589	23.91	PK	38.4	-15.9	0	46.41	-	-	74	-27.59	-	-	0-360	150	V
6	17.391	18.44	PK	41.2	-13	0	46.64	-	-	-	-	68.2	-21.56	0-360	150	V

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

PK – Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117[001687 24], 150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 7.726	34.17	PK-U	36	-19.8	0	50.37	-	-	74	-23.63	-	-	187	214	H
* 7.727	25.12	ADR	36	-19.8	0	41.32	54	-12.68	-	-	-	-	187	214	H
* 7.727	34.2	PK-U	36	-19.8	0	50.4	-	-	74	-23.6	-	-	145	116	V
* 7.727	24.69	ADR	36	-19.8	0	40.89	54	-13.11	-	-	-	-	145	116	V
* 11.585	32.59	PK-U	38.4	-15.8	0	55.19	-	-	74	-18.81	-	-	173	187	V
* 11.591	19.41	ADR	38.4	-15.9	.56	42.47	54	-11.53	-	-	-	-	173	187	V
* 11.594	31.62	PK-U	38.4	-15.8	0	54.22	-	-	74	-19.78	-	-	175	164	H
* 11.591	18.64	ADR	38.4	-15.9	.56	41.7	54	-12.3	-	-	-	-	175	164	H

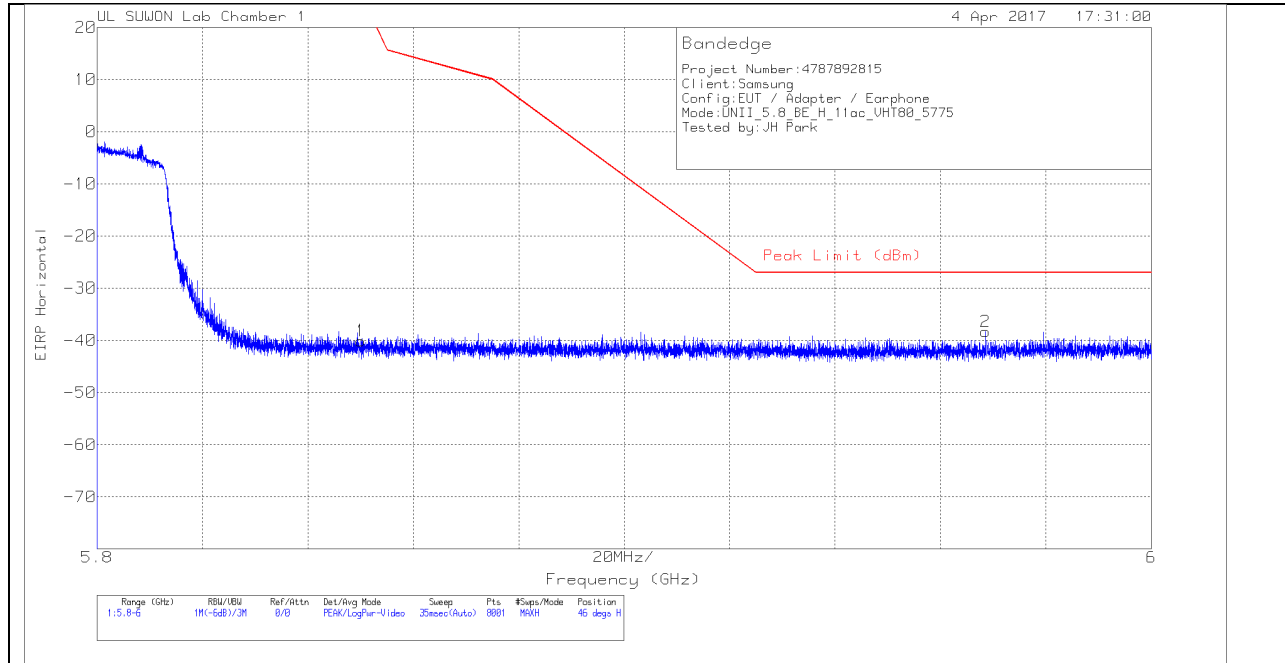
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.4.4.TX ABOVE 1GHz 802.11ac VHT80 MODE IN THE 5.8GHz BAND RESTRICTED BANDEDGE (MID CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



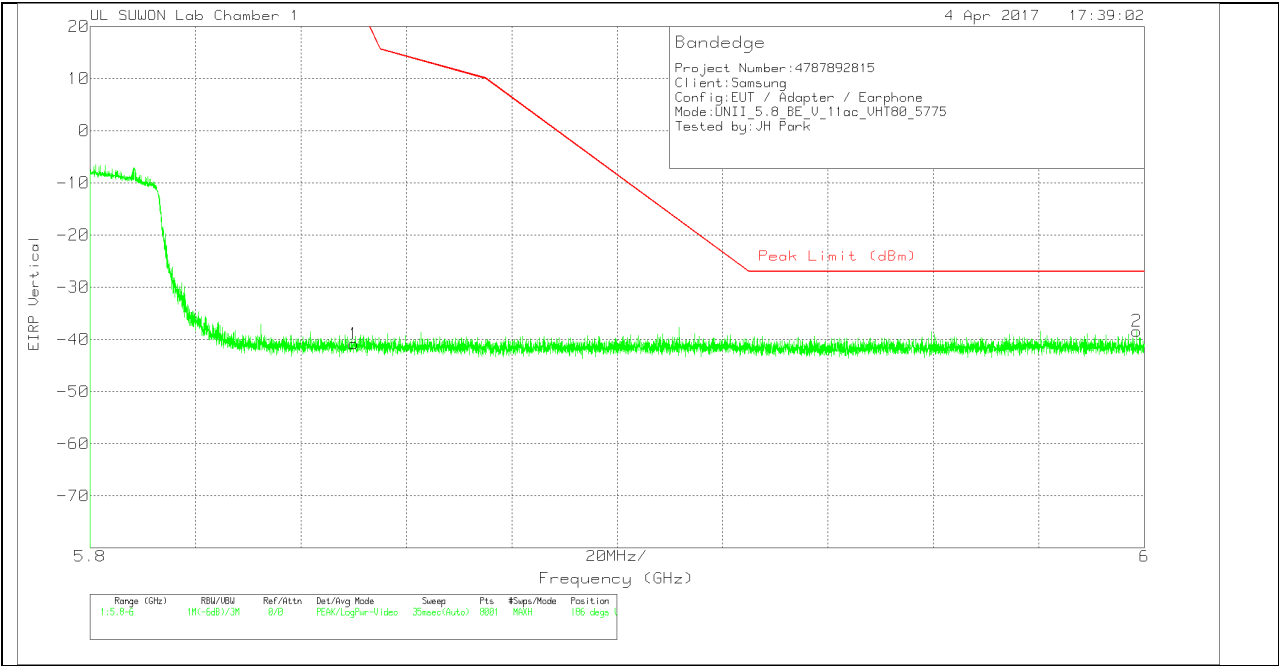
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117(0016 8717)_150 619	10dB_Att(dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-64.49	Pk	34.9	-22.3	11.8	0	-40.09	26.94	-67.03	46	100	H
2	5.969	-62.5	Pk	34.9	-22.5	11.8	0	-38.3	-27	-11.3	46	100	H

Pk - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

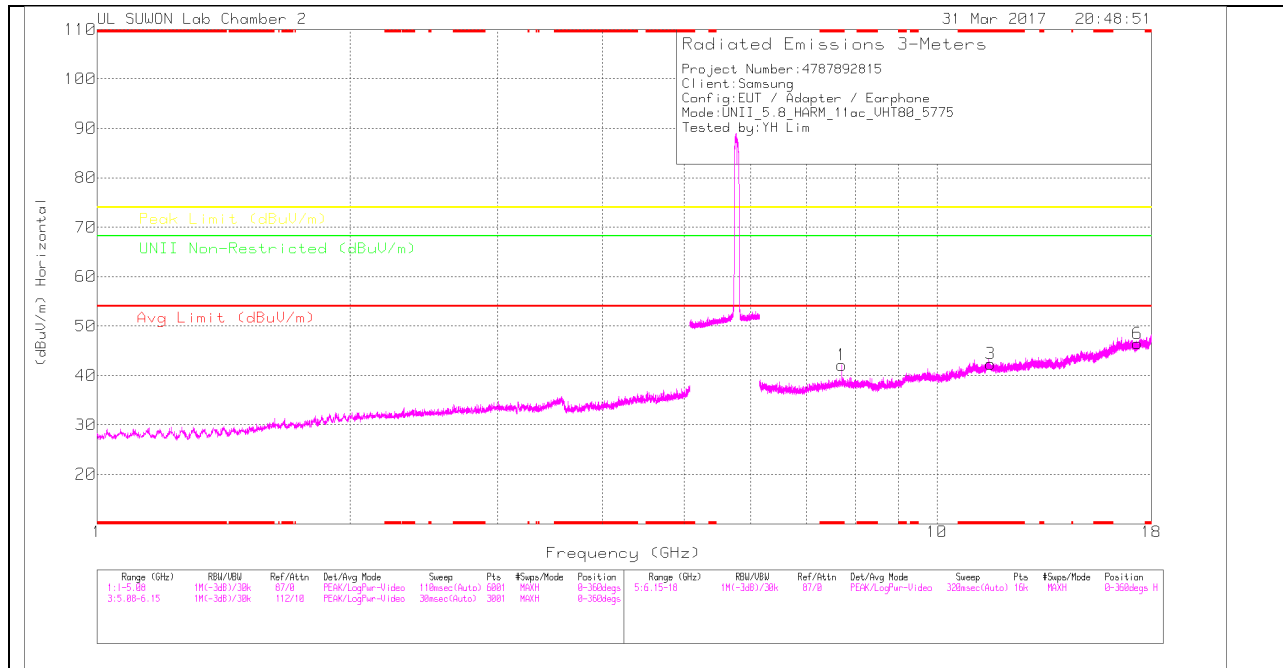
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117(0016 8717)_150 619	10dB_Att(dB)	Conversio n Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-65.26	Pk		-22.3	11.8	0	-40.86	26.94	-67.8	186	387	V
2	5.999	-62.7	Pk		-22.4	11.8	0	-38.4	-27	-11.4	186	387	V

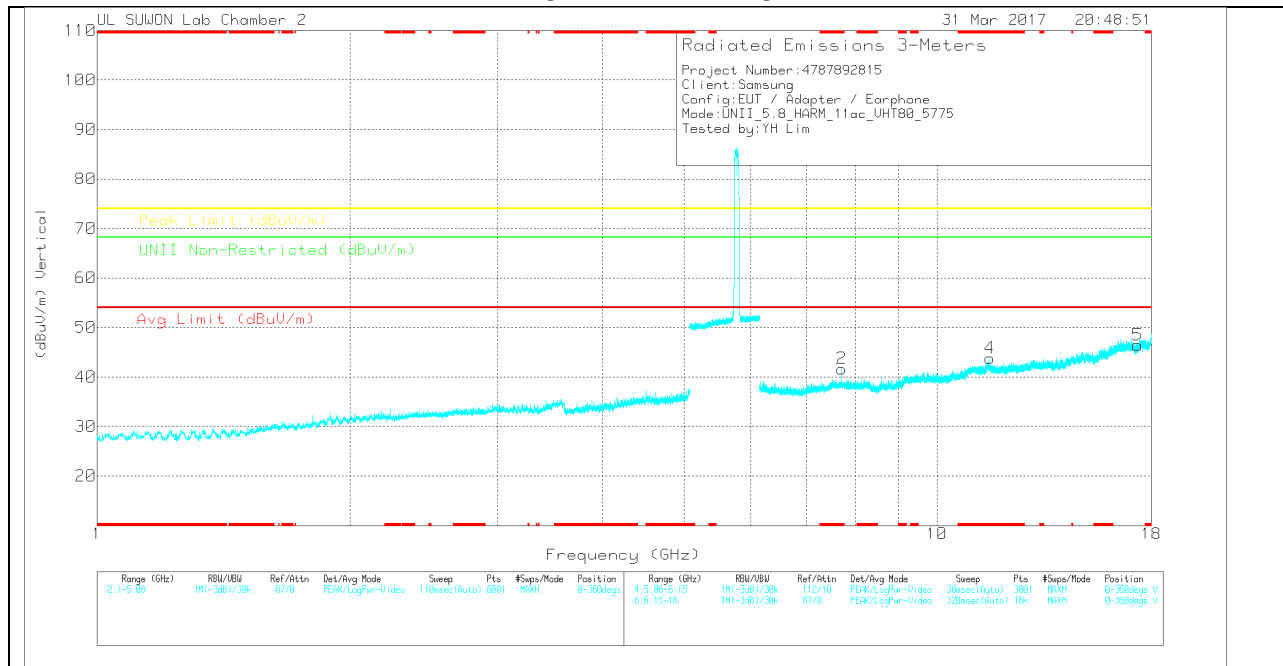
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724), 150 619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 7.7	25.9	PK	36	-19.8	0	42.1	-	-	74	-31.9	-	-	0-360	250	H
3	* 11.578	19.84	PK	38.4	-15.9	0	42.34	-	-	74	-31.66	-	-	0-360	250	H
6	17.323	18.65	PK	41.2	-13.4	0	46.45	-	-	-	-	68.2	-21.75	0-360	150	H
2	* 7.699	25.5	PK	36	-19.8	0	41.7	-	-	74	-32.3	-	-	0-360	150	V
4	* 11.571	21.31	PK	38.4	-15.9	0	43.81	-	-	74	-30.19	-	-	0-360	250	V
5	17.34	18.52	PK	41.2	-13.3	0	46.42	-	-	-	-	68.2	-21.78	0-360	250	V

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

PK – Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24), 150619	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 7.7	34.42	PK-U	36	-19.8	0	50.62	-	-	74	-23.38	-	-	183	145	H
* 7.7	24.69	ADR	36	-19.8	0	40.89	54	-13.11	-	-	-	-	183	145	H
* 7.7	34.14	PK-U	36	-19.8	0	50.34	-	-	74	-23.66	-	-	140	113	V
* 7.7	24.13	ADR	36	-19.8	0	40.33	54	-13.67	-	-	-	-	140	113	V

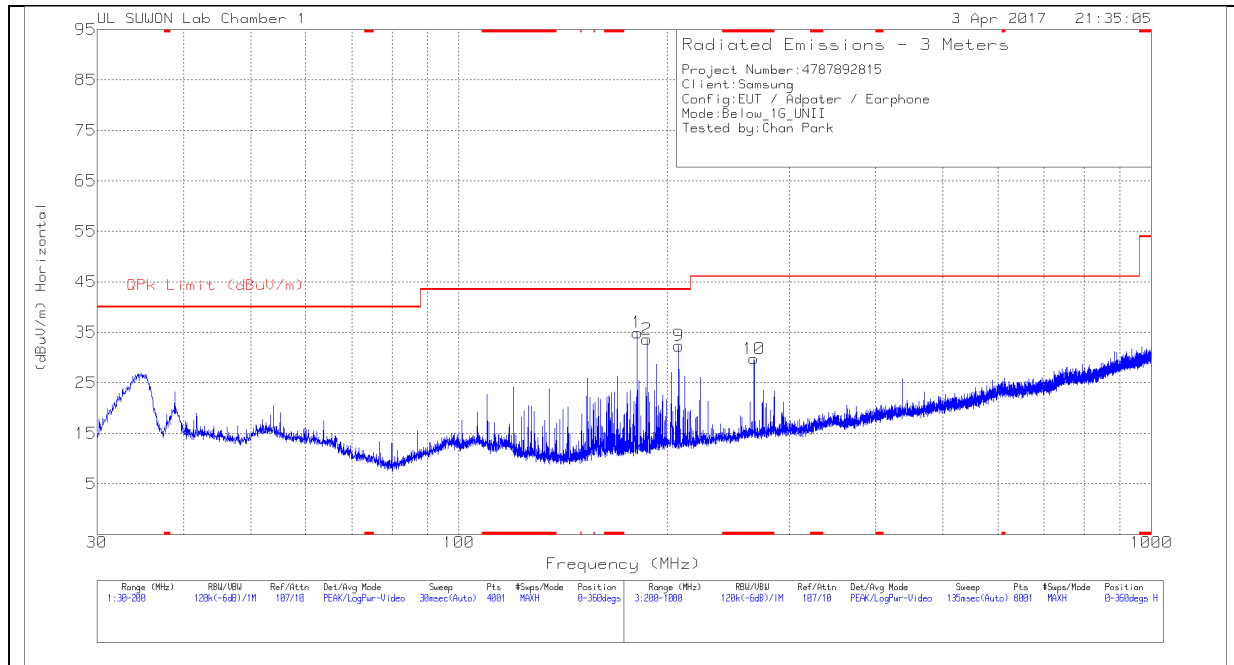
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

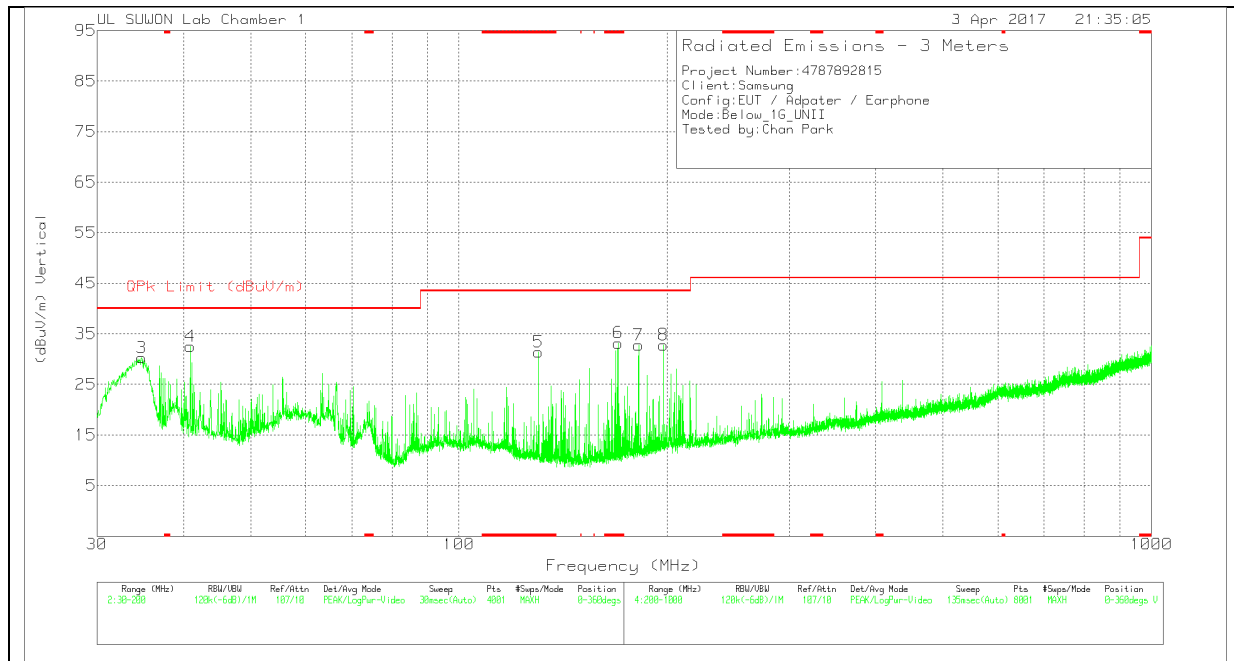
ADR - U-NII AD primary method, RMS average

11. 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

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_7 50(dB)	30-1000MHz(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	180.96	52.14	Pk	9.5	-26.7	34.94	43.52	-8.58	0-360	200	H
2	186.74	50.34	Pk	10	-26.7	33.64	43.52	-9.88	0-360	100	H
3	34.8025	48.15	Pk	10.7	-28.6	30.25	40	-9.75	0-360	100	V
4	40.9225	47.82	Pk	12.7	-28	32.52	40	-7.48	0-360	100	V
5	* 130.1725	49.77	Pk	8.5	-26.9	31.37	43.52	-12.15	0-360	100	V
6	* 169.74	51.19	Pk	8.8	-26.8	33.19	43.52	-10.33	0-360	100	V
7	181.725	49.85	Pk	9.5	-26.6	32.75	43.52	-10.77	0-360	100	V
8	197.28	48.39	Pk	11	-26.6	32.79	43.52	-10.73	0-360	300	V
9	207.7	48.15	Pk	10.8	-26.6	32.35	43.52	-11.17	0-360	200	H
10	* 266.8	43.37	Pk	12.6	-26.2	29.77	46.02	-16.25	0-360	100	H

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

Pk - Peak detector

12. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

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

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

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

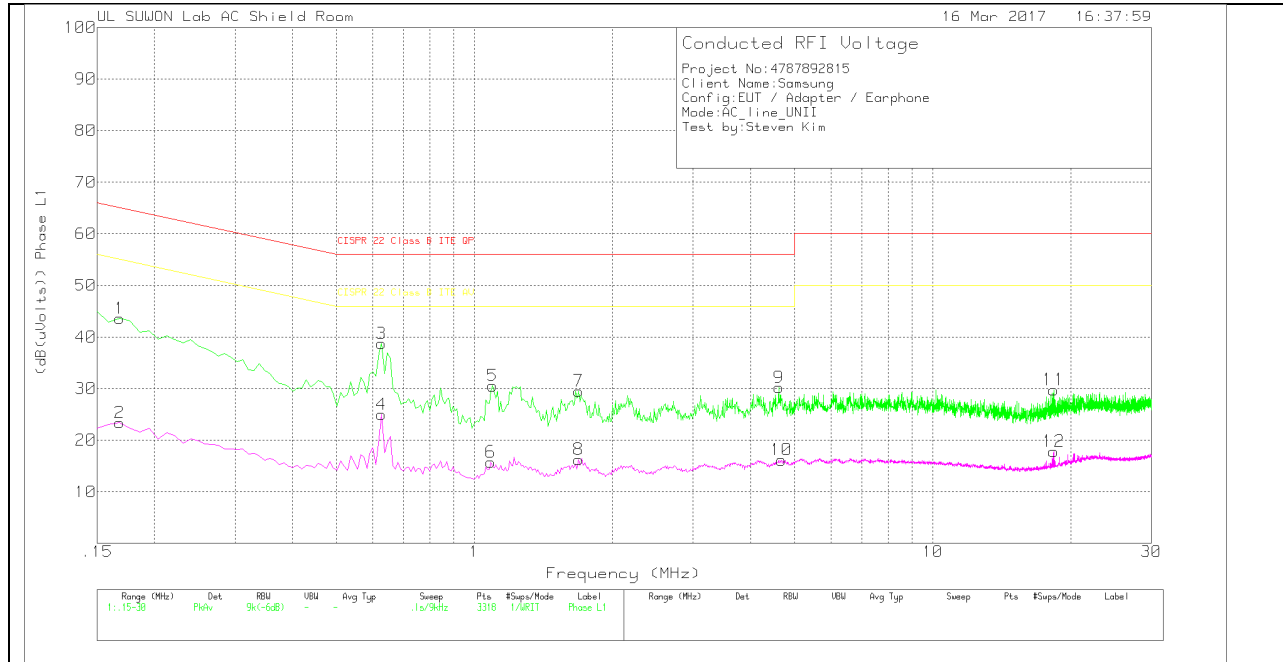
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT



LINE 1 RESULTS

Trace Markers

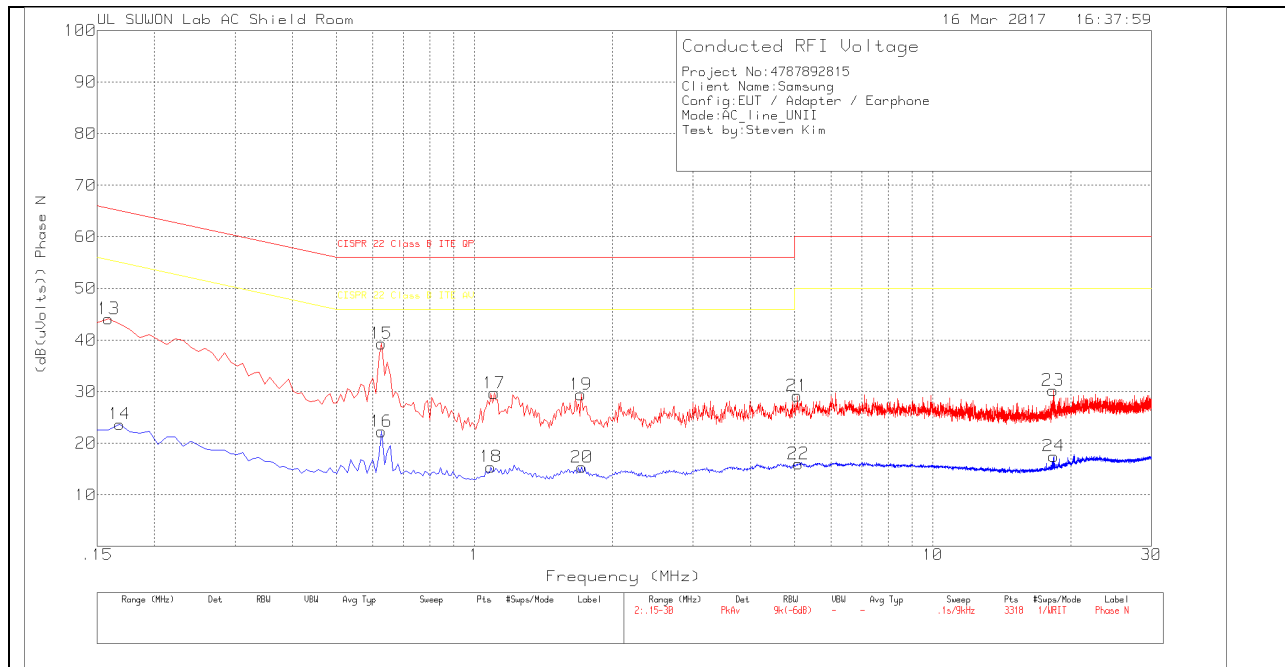
Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_w ith ex- cord_L1	CABLELOS S(dB)	Corrected Reading (dB(uVolts)	CISPR 22 Class B ITE QP	Margin (dB)	CISPR 22 Class B ITE AV	Margin (dB)
1	.168	33.53	Pk	10	.1	43.63	65.06	-21.43	-	-
2	.168	13.32	Av	10	.1	23.42	-	-	55.06	-31.64
3	.627	28.63	Pk	9.9	.2	38.73	56	-17.27	-	-
4	.627	14.89	Av	9.9	.2	24.99	-	-	46	-21.01
5	1.095	20.46	Pk	9.8	.3	30.56	56	-25.44	-	-
6	1.086	5.67	Av	9.8	.3	15.77	-	-	46	-30.23
7	1.689	19.53	Pk	9.7	.3	29.53	56	-26.47	-	-
8	1.689	6.26	Av	9.7	.3	16.26	-	-	46	-29.74
9	4.614	20.14	Pk	9.8	.3	30.24	56	-25.76	-	-
10	4.677	6.08	Av	9.8	.3	16.18	-	-	46	-29.82
11	18.366	19.08	Pk	10.3	.4	29.78	60	-30.22	-	-
12	18.366	7.13	Av	10.3	.4	17.83	-	-	50	-32.17

Pk - Peak detector

Av - Average detection

LINE 2 PLOT



LINE 2 RESULTS

Trace Markers

Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_w ith ex- cord_N	CABLELOS S(dB)	Corrected Reading (dB(uVolts)	CISPR 22 Class B ITE QP	Margin (dB)	CISPR 22 Class B ITE AV	Margin (dB)
13	.159	34.12	Pk	9.9	.1	44.12	65.52	-21.4	-	-
14	.168	13.62	Av	10	.1	23.72	-	-	55.06	-31.34
15	.627	29.22	Pk	9.9	.2	39.32	56	-16.68	-	-
16	.627	12.18	Av	9.9	.2	22.28	-	-	46	-23.72
17	1.104	19.6	Pk	9.8	.3	29.7	56	-26.3	-	-
18	1.086	5.34	Av	9.8	.3	15.44	-	-	46	-30.56
19	1.707	19.46	Pk	9.7	.3	29.46	56	-26.54	-	-
20	1.716	5.39	Av	9.7	.3	15.39	-	-	46	-30.61
21	5.064	19.1	Pk	9.8	.3	29.2	60	-30.8	-	-
22	5.091	5.93	Av	9.8	.3	16.03	-	-	50	-33.97
23	18.303	19.25	Pk	10.6	.4	30.25	60	-29.75	-	-
24	18.366	6.51	Av	10.6	.4	17.51	-	-	50	-32.49

Pk - Peak detector

Av - Average detection

13. DYNAMIC FREQUENCY SELECTION

13.1. OVERVIEW

13.1.1. LIMITS

FCC

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

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

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

Table 2: Applicability of DFS requirements during normal operation

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

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

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

Maximum Transmit Power	Value (see notes)
E.I.R.P. $\geq$ 200 mill watt	-64 dBm
E.I.R.P. < 200 mill watt and power spectral density < 10 dBm/MHz	-62 dBm
E.I.R.P. < 200 mill watt that do not meet power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note 3: E.I.R.P. is based on the highest antenna gain. For MIMO devices refer to KDB publication 662911 D01.	

Table 4: DFS Response requirement values

Parameter	Value
<i>Non-occupancy period</i>	30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds (See Note 1)
<i>Channel Closing Transmission Time</i>	200 milliseconds + approx. 60 milliseconds over remaining 10 second period. (See Notes 1 and 2)
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U- NII 99% transmission power bandwidth. (See Note 3)
Note 1: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the <i>U-NII Detection Bandwidth</i> detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.	

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (usec)	PRI (usec)	Pulses	Minimum Percentage of Successful Detection	Minimum Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in table 5a	Roundup: $\{(1/360) \times (19 \times 10^6 \text{ PRI}_{\text{usec}})\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 usec. With a minimum increment of 1 usec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the <i>Detection Bandwidth</i> test, <i>Channel Move Time</i> , and <i>Channel Closing Time</i> tests.					

Table 6 – Long Pulse Radar Test Signal

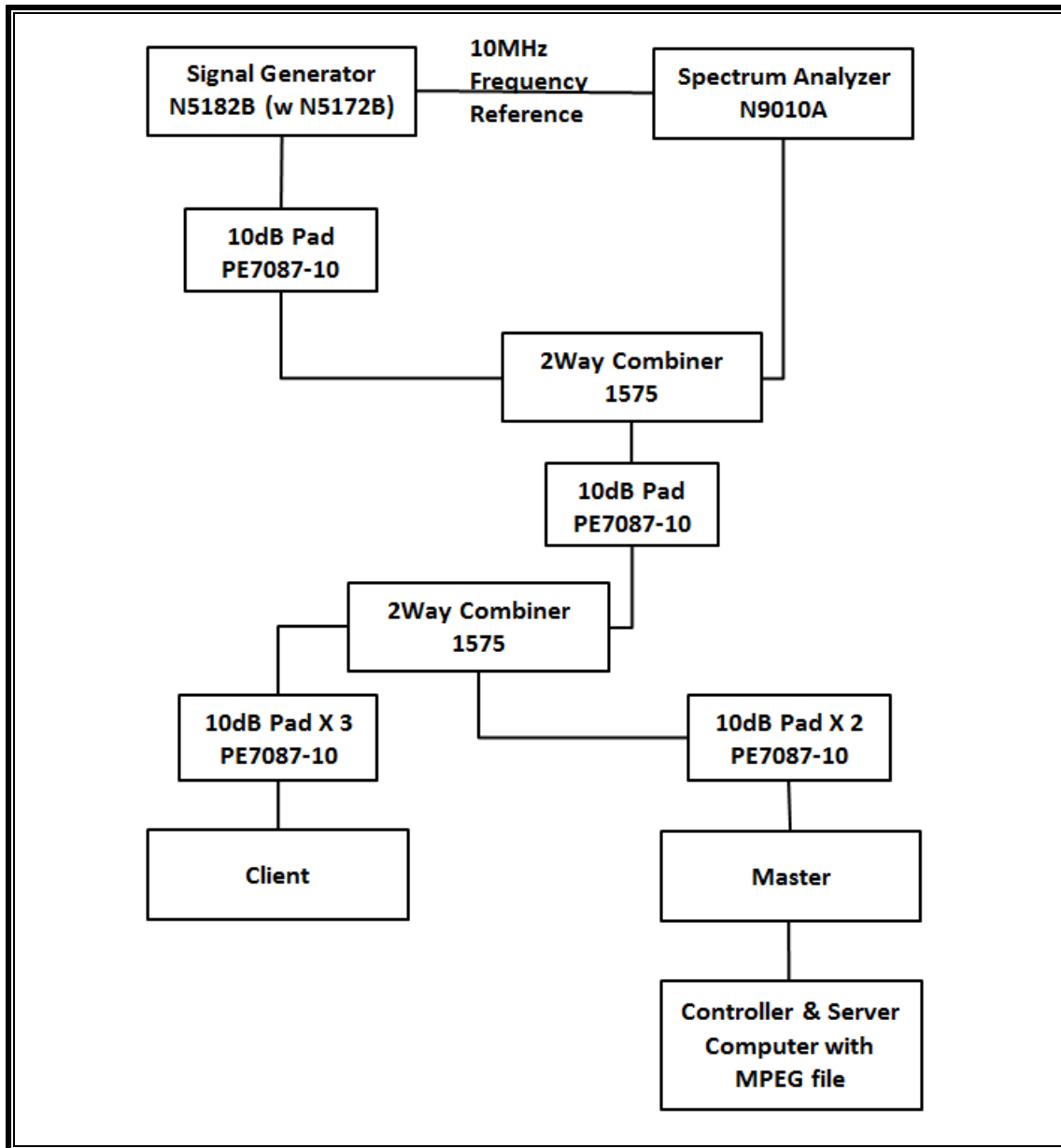
Radar Waveform Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Table 7 – Frequency Hopping Radar Test Signal

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

13.1.1. TEST AND MEASUREMENT SYSTEM

CONDUCTED METHOD SYSTEM BLOCK DIAGRAM



SYSTEM OVERVIEW

The short pulse and long pulse signal generating system utilizes the Keysite Signal Studio for Pulse Building as N5172B. The Vector Signal Generator has been validated by the NTIA. The hopping signal generating system utilizes the CCS simulated hopping method and system, which has been validated by the DoD, FCC and NTIA. The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution.

The short pulse types 1, 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time.

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

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

SYSTEM CALIBRATION

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

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

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

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.

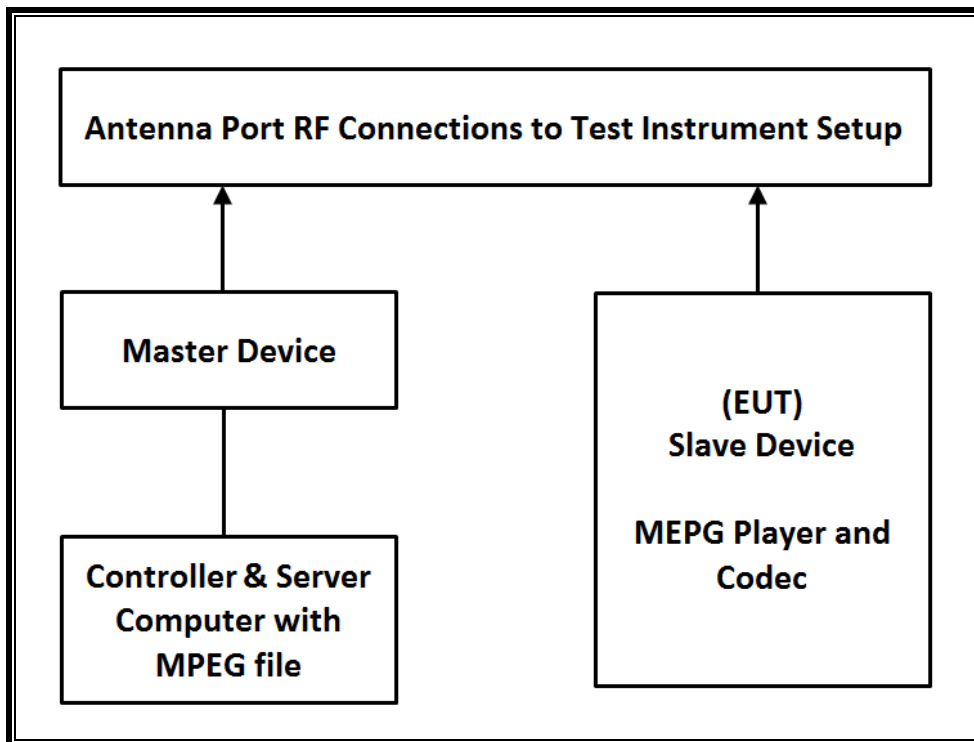
TEST AND MEASUREMENT EQUIPMENT

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

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	S/N	Cal Due
Spectrum Analyzer, 7 GHz	Agilent / HP	N9010A	MY54200580	08-17-17
Vector Signal Generator, 6GHz	Agilent / HP	N5182B	MY53051241	08-16-17

13.1.2. SETUP OF EUT

CONDUCTED 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-CAP3702E-A-K9	FTX182276QX	LDK102087
PC (Controller/Server)	HP	HP EliteDesk 800 G1 TWR	CZC4125J25	DoC

13.1.3. DESCRIPTION OF EUT

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

The EUT is a Slave Device without Radar Detection.

The highest power level within these bands is 16.34 dBm in the 5250-5350 MHz band and 16.49 dBm in the 5470-5725 MHz band.

The antenna gain assembly utilized with the EUT are -3.63 dBi in the 5250-5350 MHz band and -2.33 dBi 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 conducted 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 that meets or exceeds the minimum required loading was generated by transferring a data stream from the controller/server PC to the EUT using iPerf version 2.0.5 software package.

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.

The software installed in the access point is 12.4(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: LDK102087. The minimum antenna gain for the Master Device is 6 dBi.

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

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

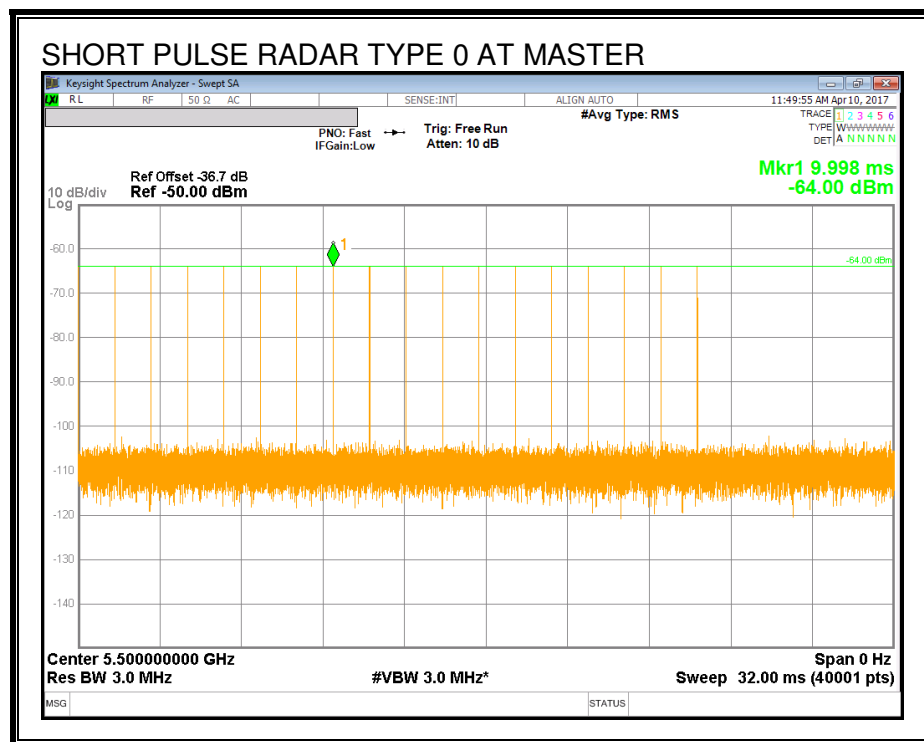
13.1. RESULTS FOR 20 MHz BANDWIDTH

13.1.1. TEST CHANNEL

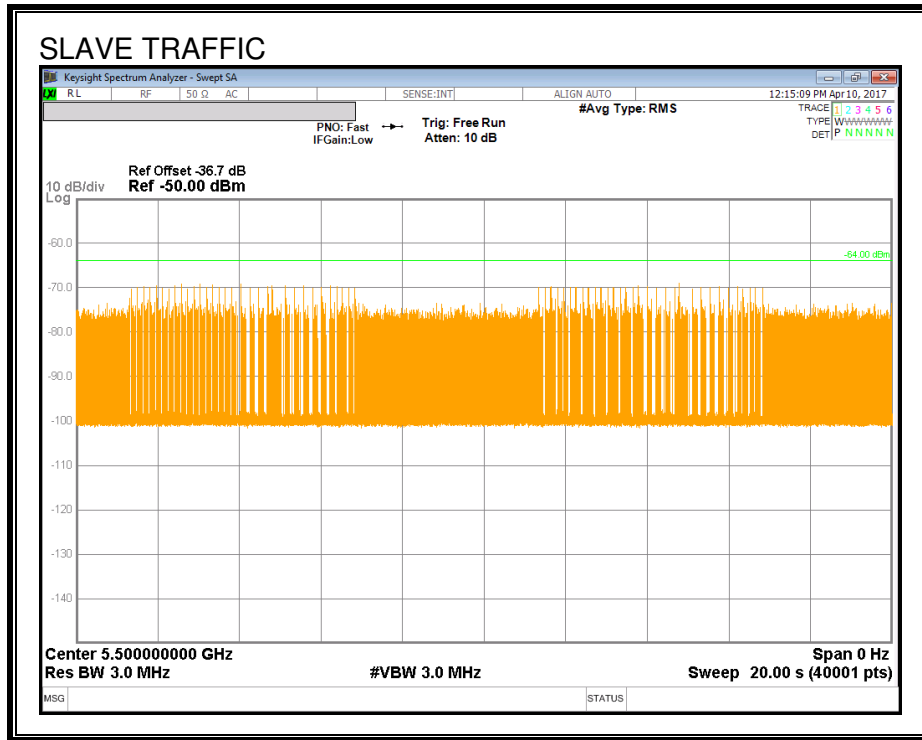
All tests were performed at a channel center frequency of 5500 MHz.

13.1.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



TRAFFIC



13.1.3.OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

13.1.4.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

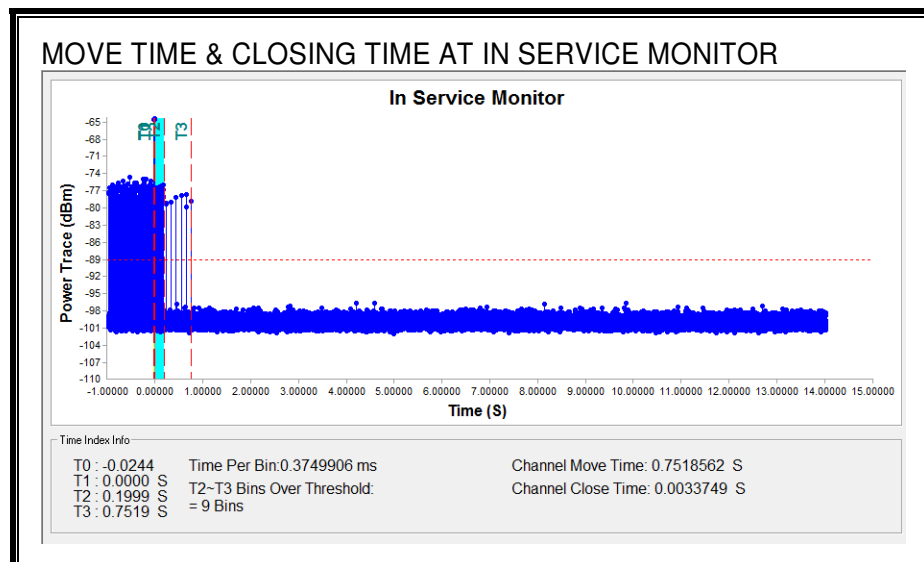
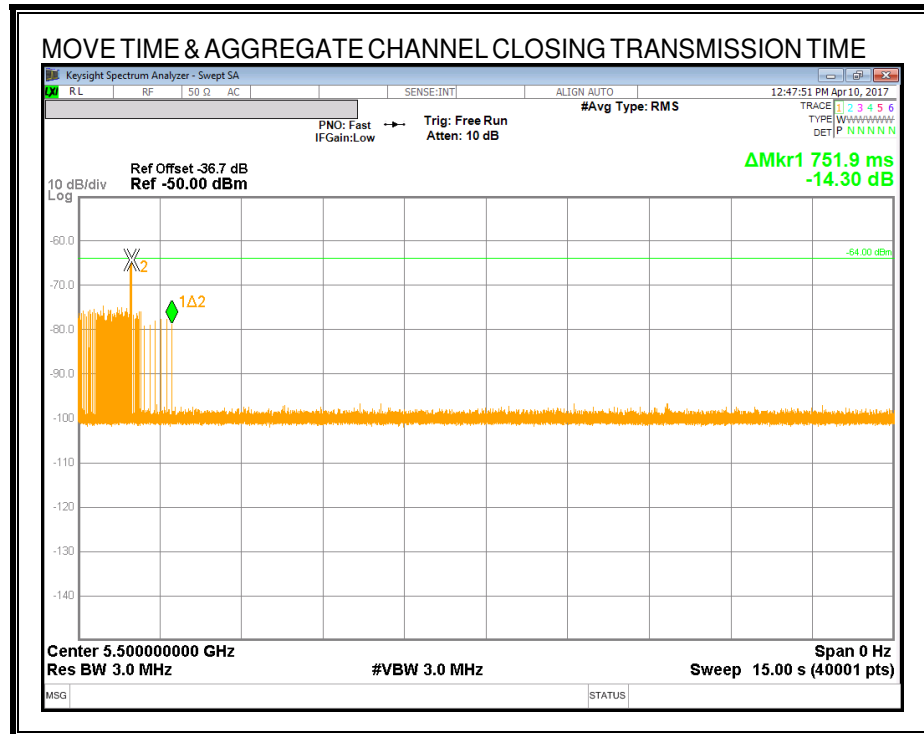
Channel Move Time (sec)	Limit (sec)
0.753	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
3.375	60

MOVE TIME & CHANNEL CLOSING TIME

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

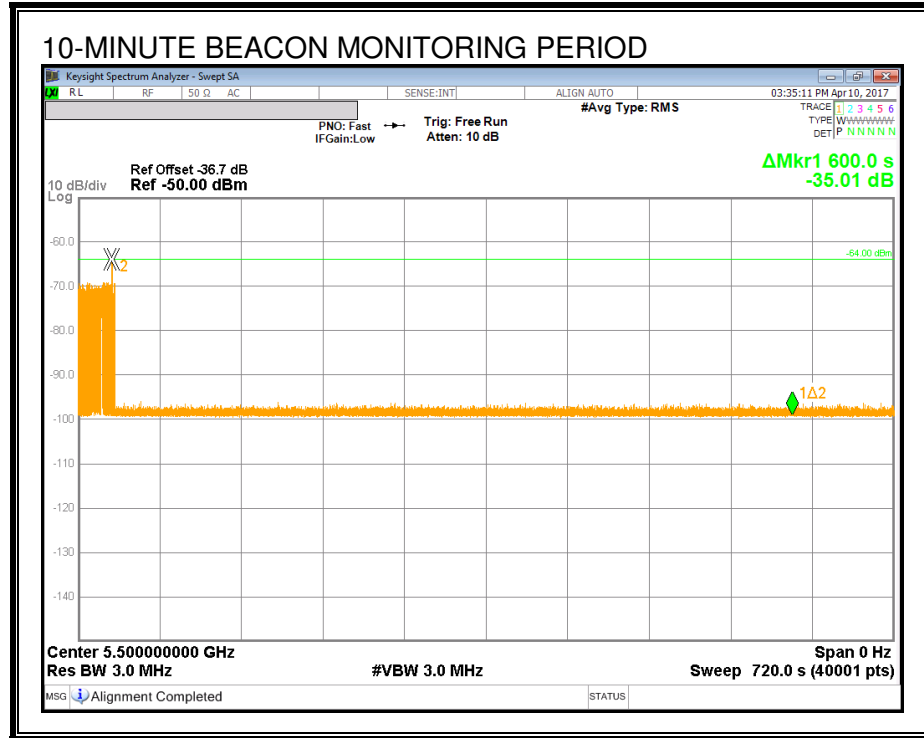
No transmissions are observed during the aggregate monitoring period.



NON-OCCUPANCY PERIOD

RESULTS

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



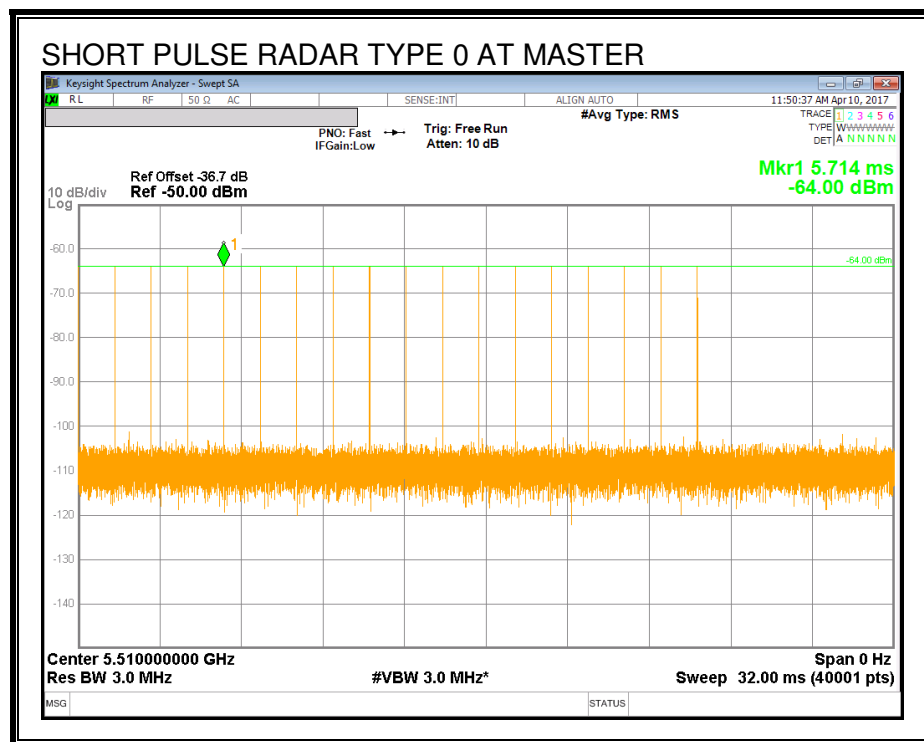
13.2. RESULTS FOR 40 MHz BANDWIDTH

13.2.1. TEST CHANNEL

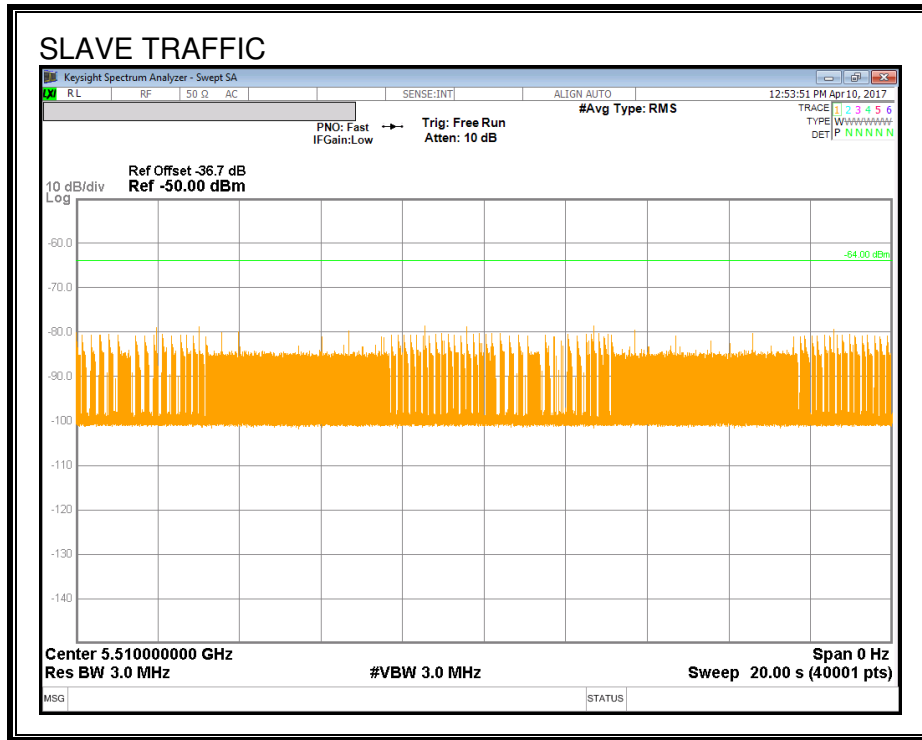
All tests were performed at a channel center frequency of 5510 MHz.

13.2.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



TRAFFIC



13.2.3.OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

13.2.4.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

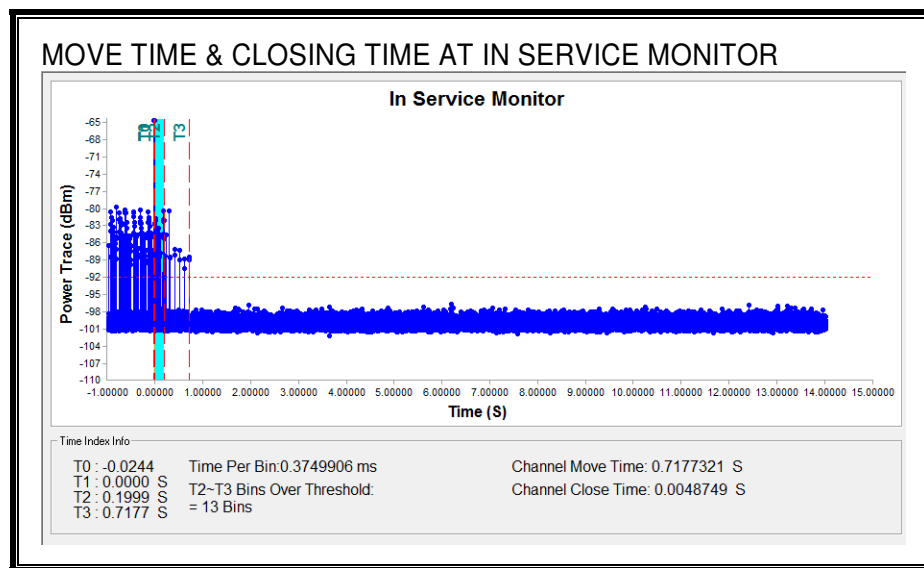
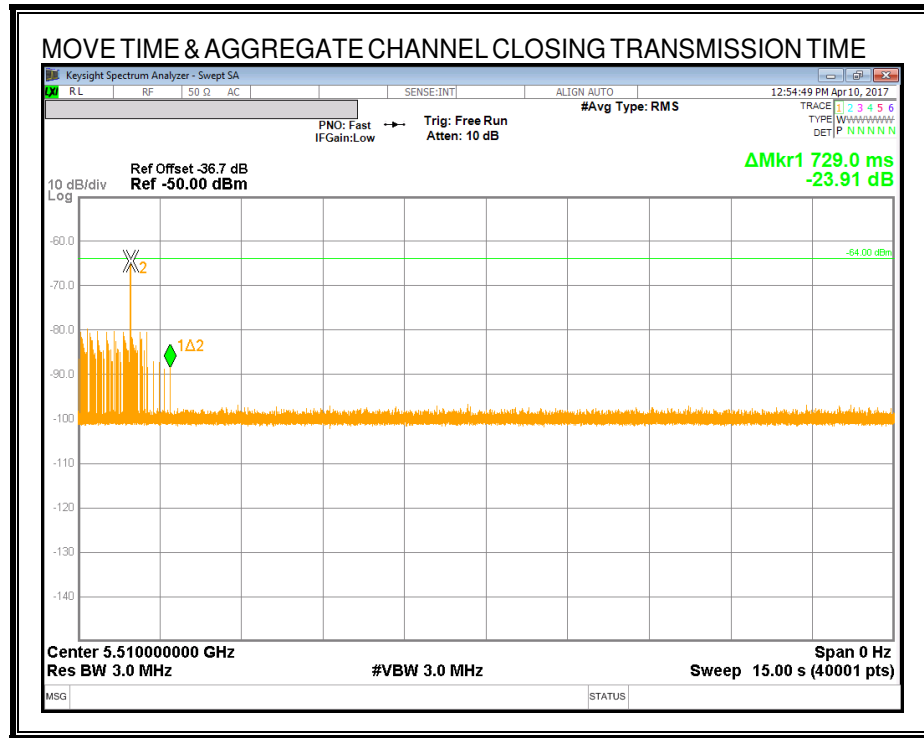
Channel Move Time (sec)	Limit (sec)
0.718	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
4.875	60

MOVE TIME & CHANNEL CLOSING TIME

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

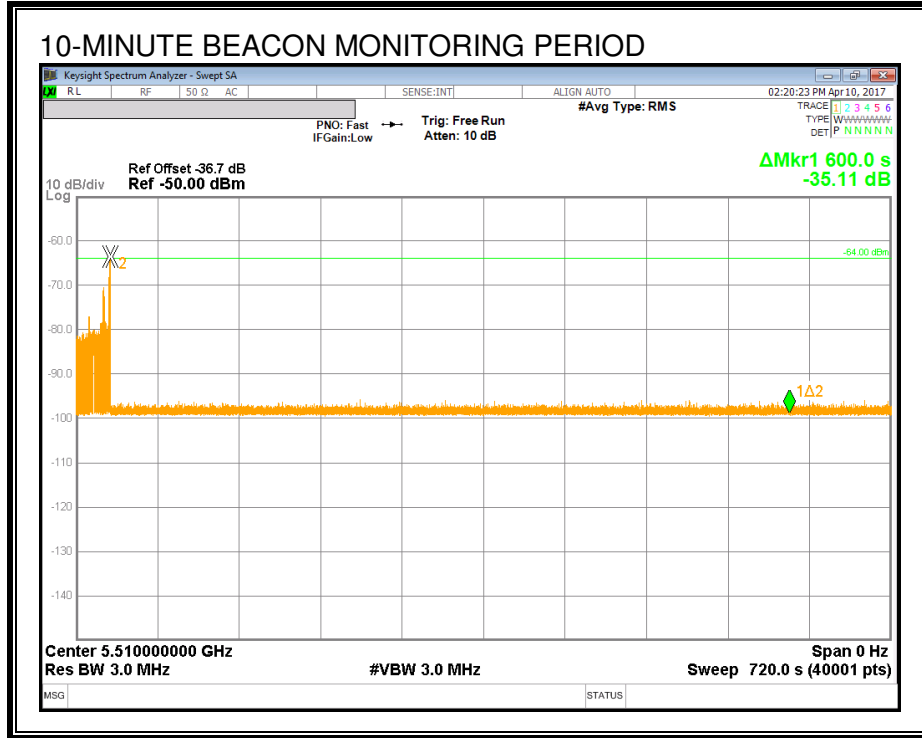
No transmissions are observed during the aggregate monitoring period.



NON-OCCUPANCY PERIOD

RESULTS

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



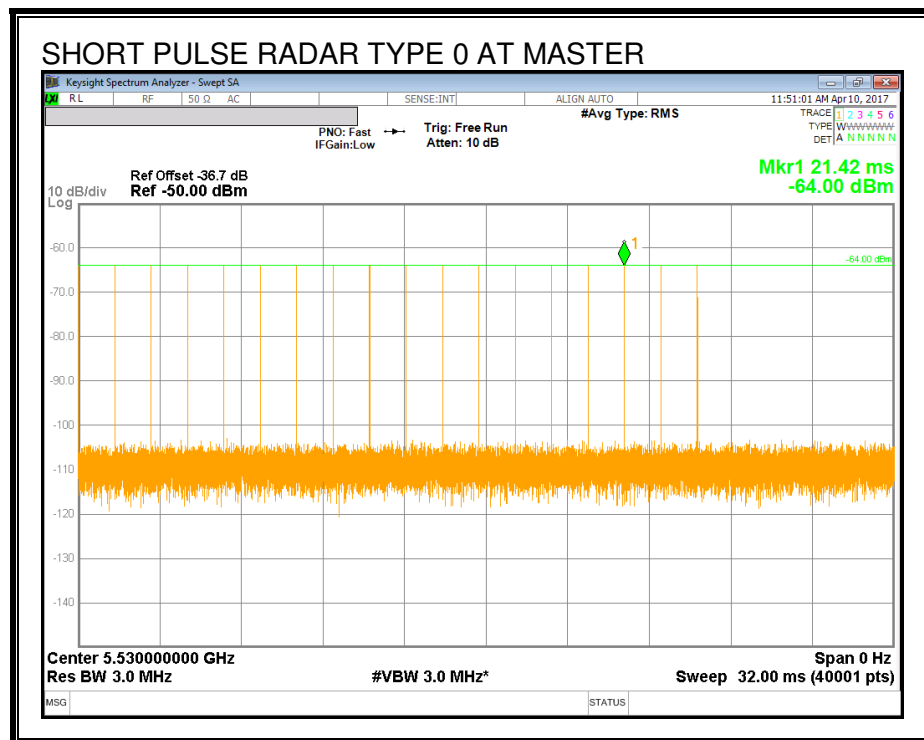
13.3. RESULTS FOR 80 MHz BANDWIDTH

13.3.1.TEST CHANNEL

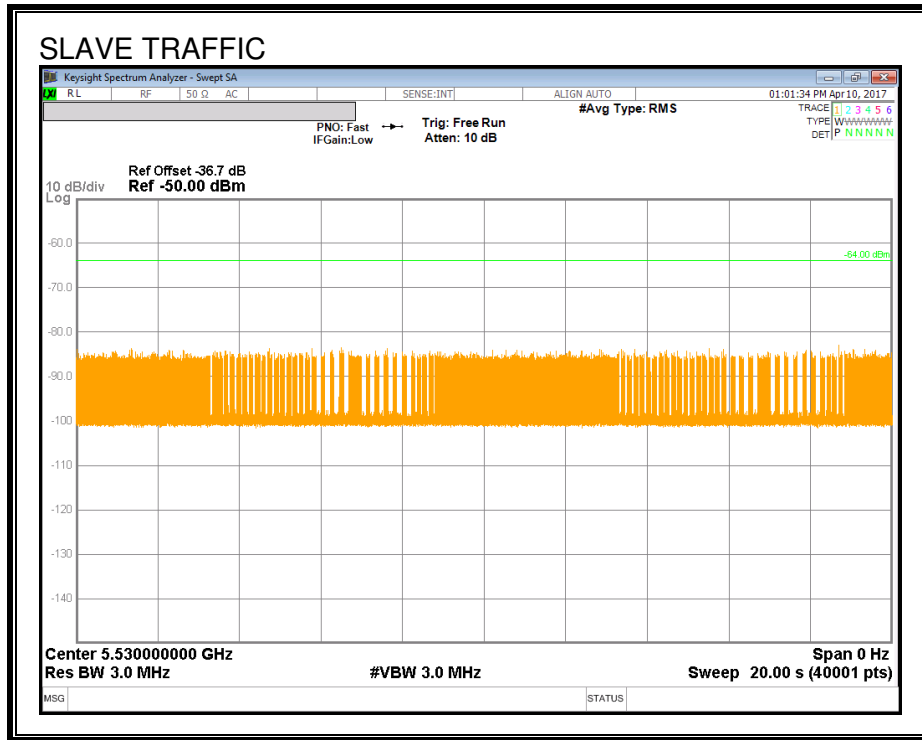
All tests were performed at a channel center frequency of 5530 MHz.

13.3.2.RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



TRAFFIC



13.3.3.OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

13.3.4.MOVE AND CLOSING TIME

REPORTING NOTES

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

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

The aggregate channel closing transmission time is calculated as follows:

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

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

RESULTS

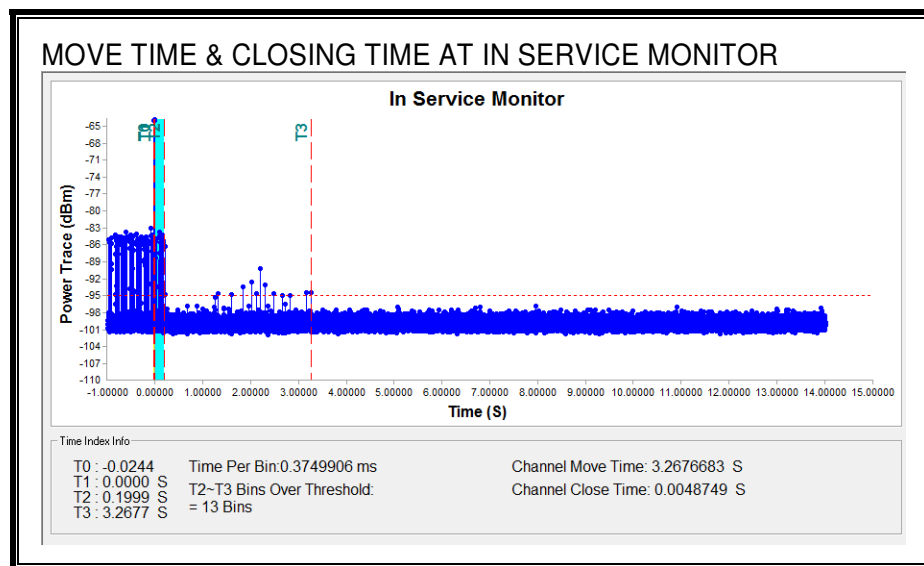
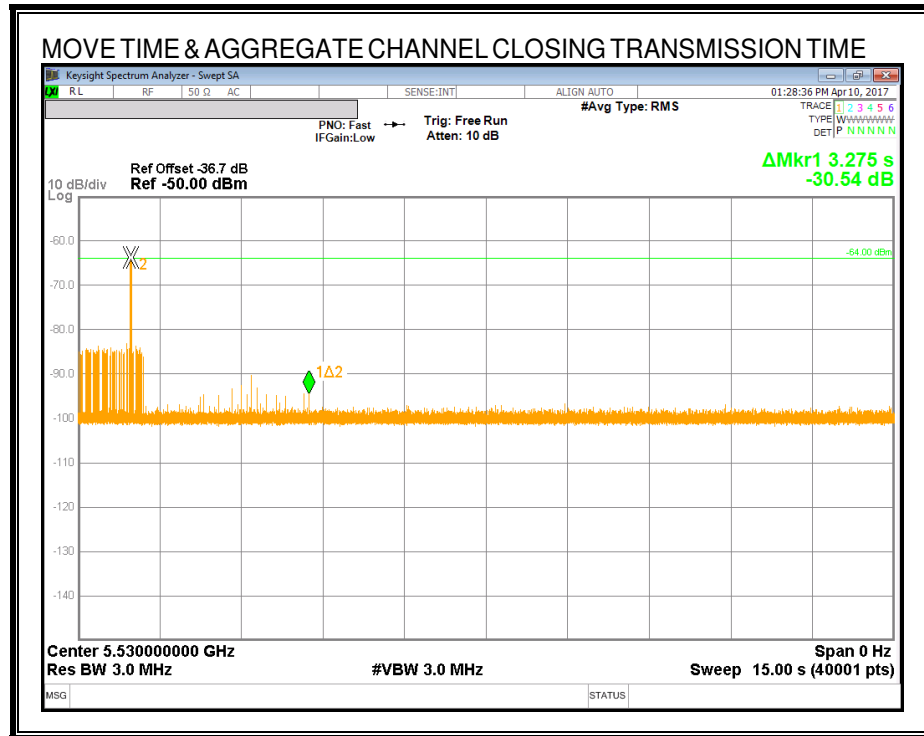
Channel Move Time (sec)	Limit (sec)
3.268	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
4.875	60

MOVE TIME & CHANNEL CLOSING TIME

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



NON-OCCUPANCY PERIOD

RESULTS

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

