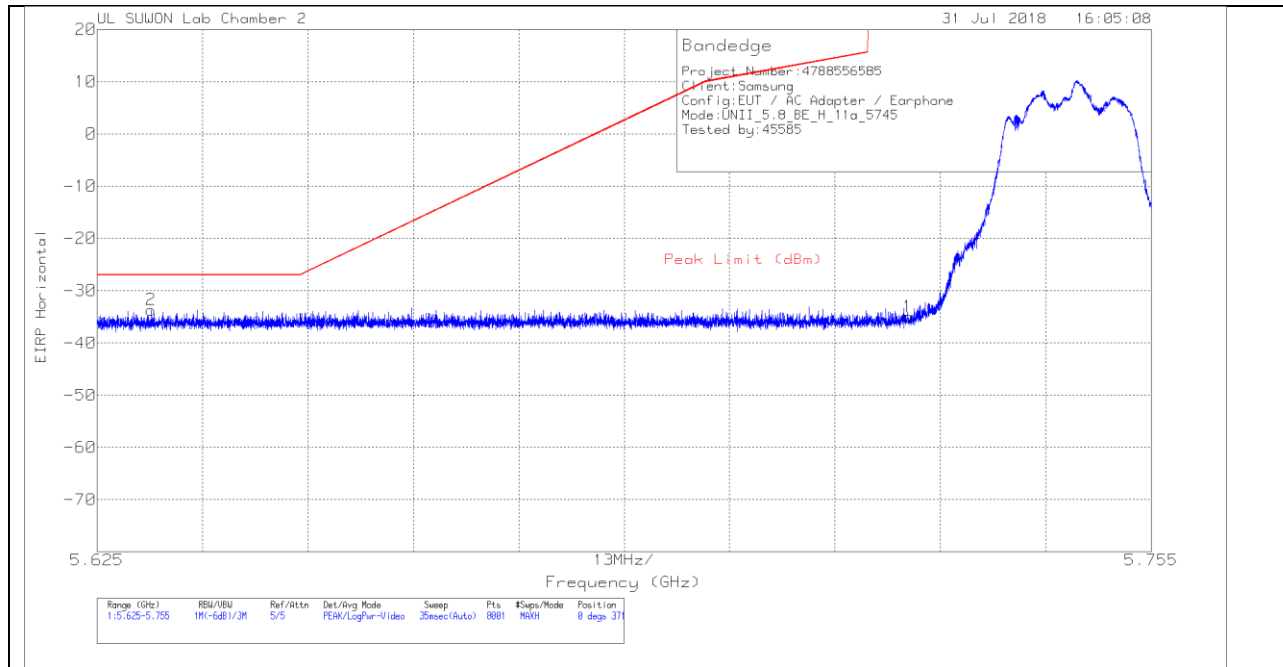


11.4. 5.8 GHz

11.4.1. TX ABOVE 1GHz 802.11a 2Tx CDD MODE IN THE 5.8GHz BAND

BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK PLOT



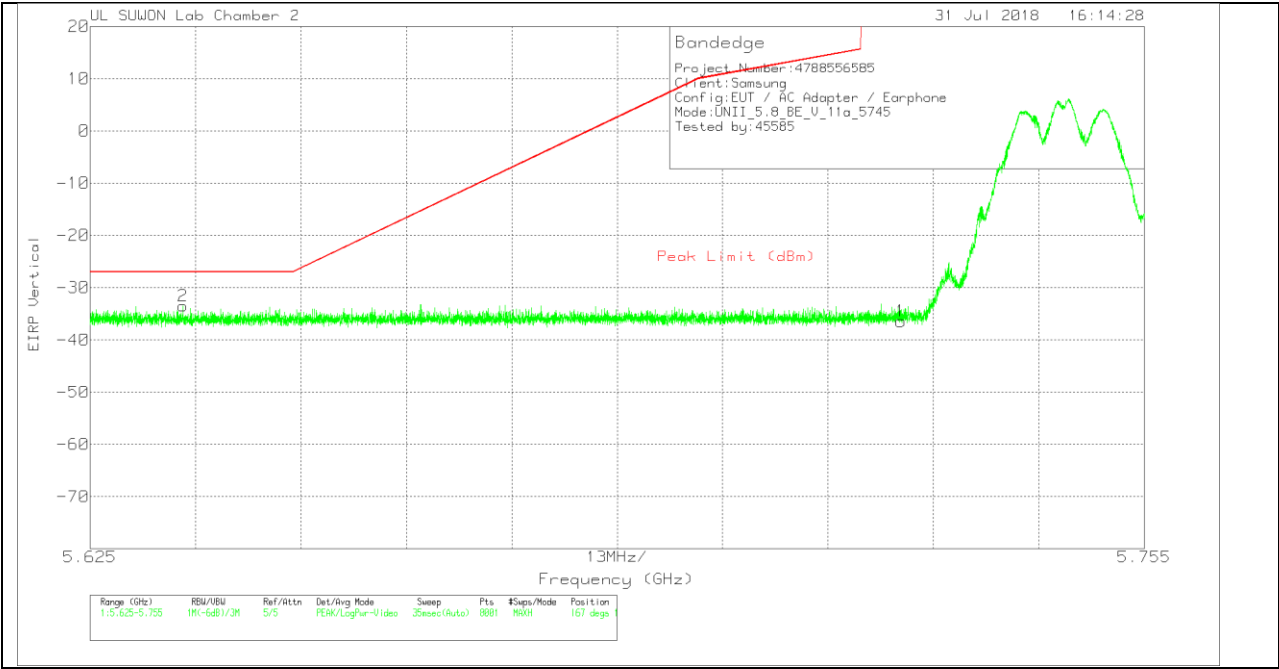
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-65.63	Pk	34.5	-15.6	11.8	0	-34.93	278.26	-313.19	0	371	H
2	5.632	-64.17	Pk	34.4	-15.7	11.8	0	-33.67	-27	-6.67	0	371	H

Pk - Peak detector

VERTICAL PEAK PLOT



VERTICAL DATA

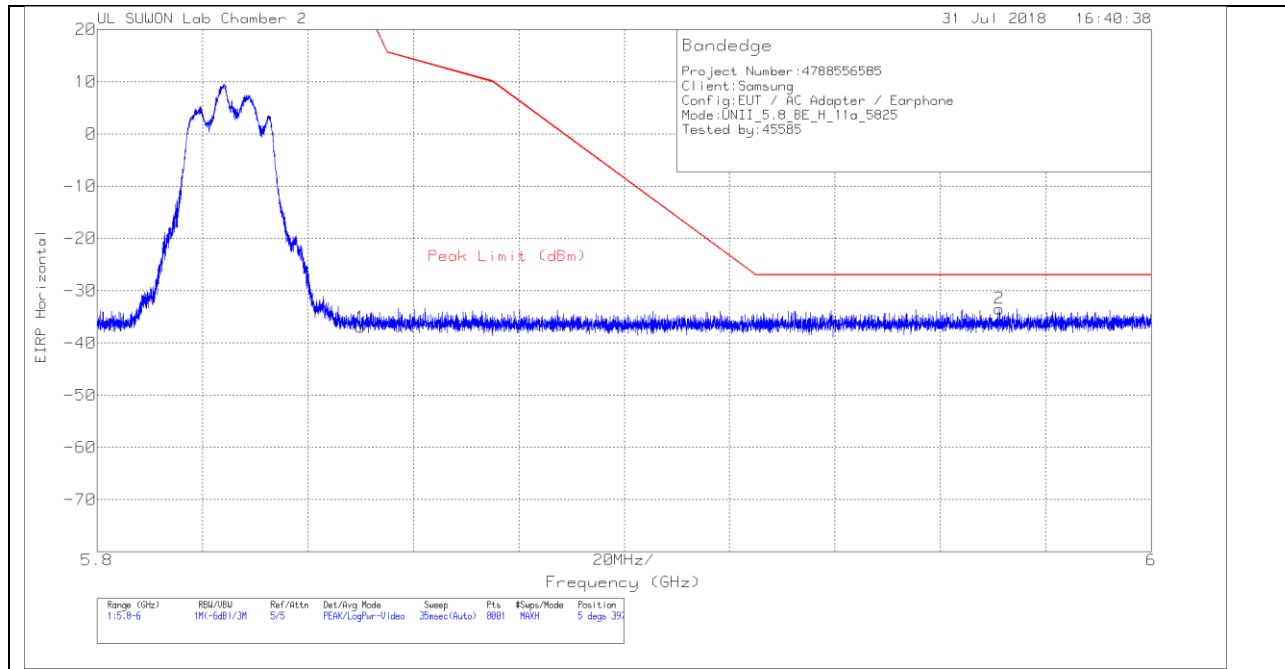
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-67.12	Pk	34.5	-15.6	11.8	0	-36.42	278.26	-314.68	167	100	V
2	5.636	-63.98	Pk	34.4	-15.7	11.8	0	-33.48	-27	-6.48	167	100	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK PLOT



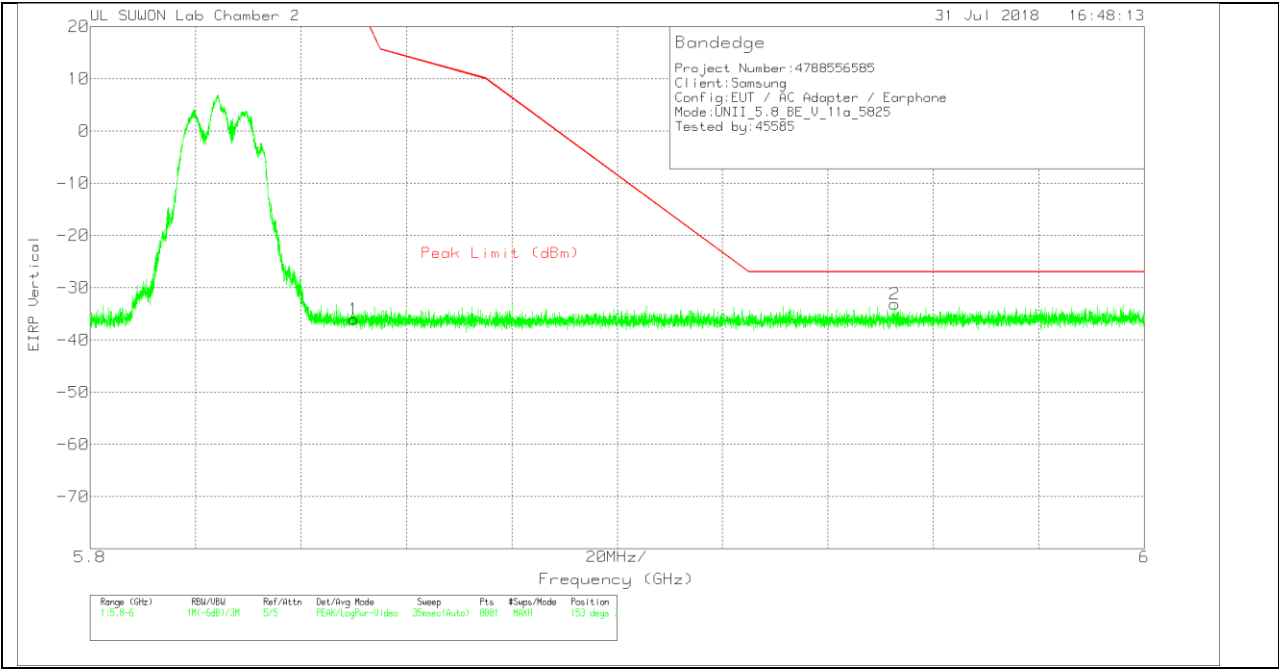
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-67.77	Pk	34.5	-15.5	11.8	0	-36.97	26.94	-63.91	5	397	H
2	5.971	-64.53	Pk	34.7	-15.4	11.8	0	-33.43	-27	-6.43	5	397	H

Pk - Peak detector

VERTICAL PEAK PLOT



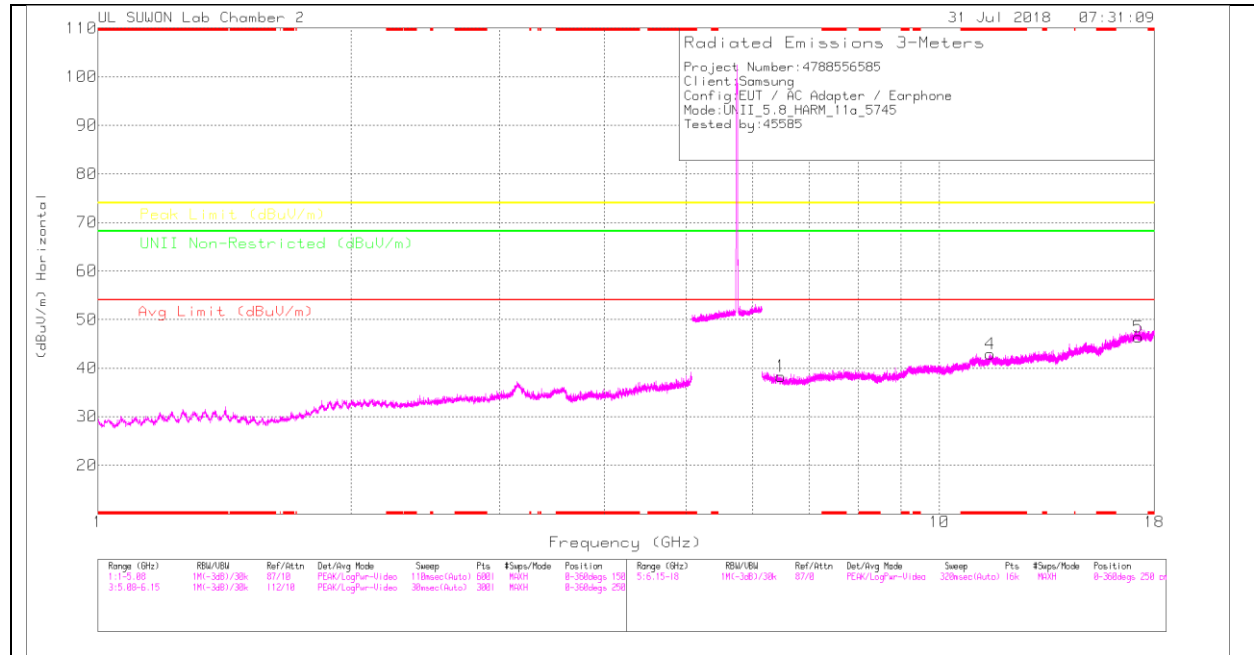
VERTICAL DATA

Trace Markers

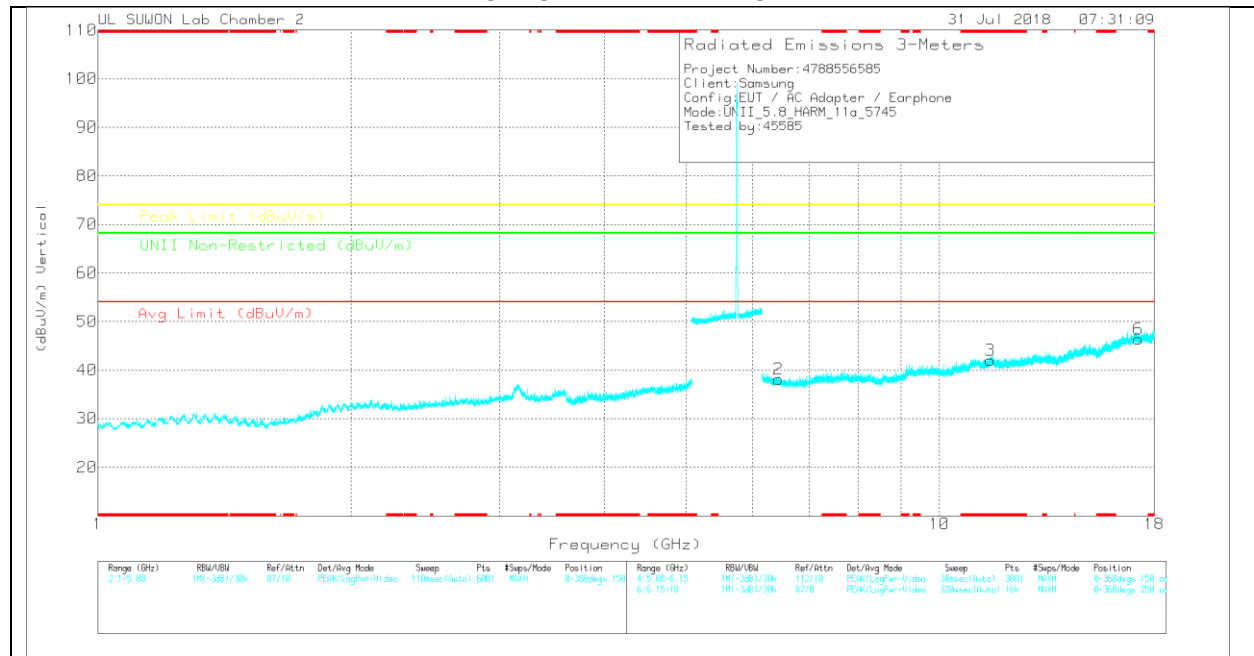
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-66.84	Pk	34.5	-15.5	11.8	0	-36.04	26.94	-62.98	153	350	V
2	5.953	-64.05	Pk	34.6	-15.5	11.8	0	-33.15	-27	-6.15	153	350	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

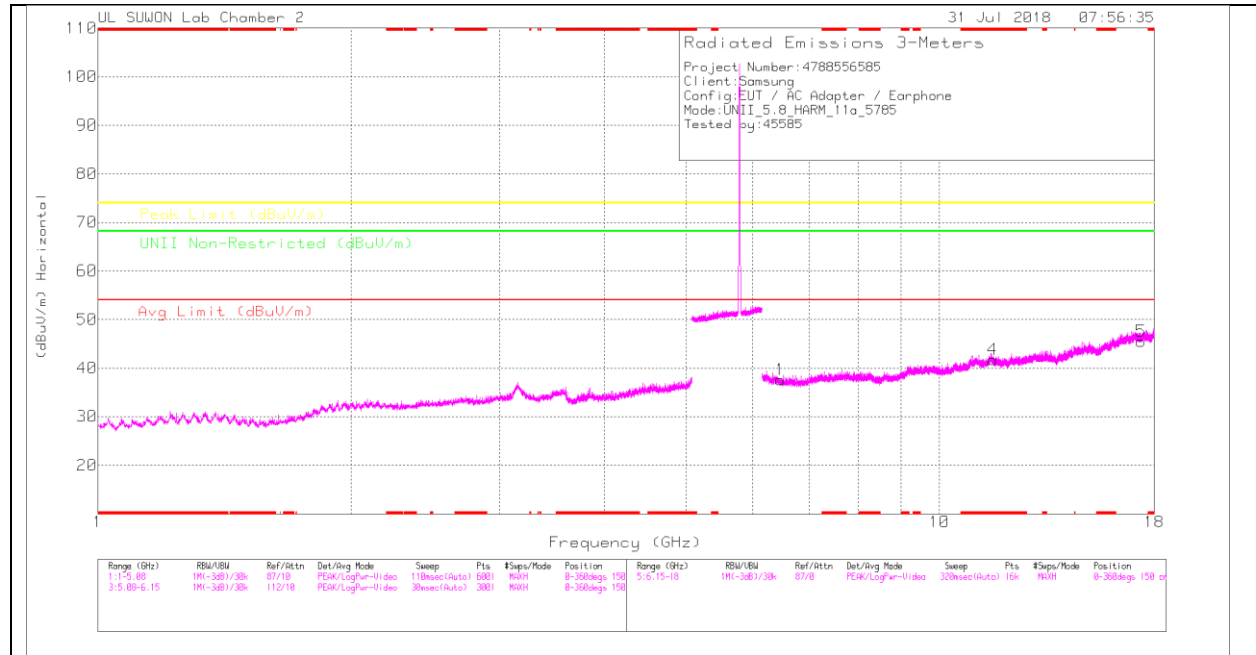
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117003887 24]	60Hz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unlit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	6.48	25.22	PK	35.1	-22	0	38.32	-	-	-	-	68.2	-29.88	0-360	250	H
4	*11.489	20.6	PK	38.2	-15.9	0	42.9	-	-	74	-31.1	-	-	0-360	250	H
5	17.236	18.34	PK	41.6	-13.5	0	46.44	-	-	-	-	68.2	-21.76	0-360	250	H
2	6.437	24.63	PK	35.1	-21.6	0	38.13	-	-	-	-	68.2	-30.07	0-360	150	V
3	*11.493	19.69	PK	38.2	-15.9	0	41.99	-	-	74	-32.01	-	-	0-360	150	V
6	17.234	18.35	PK	41.6	-13.5	0	46.45	-	-	-	-	68.2	-21.75	0-360	250	V

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

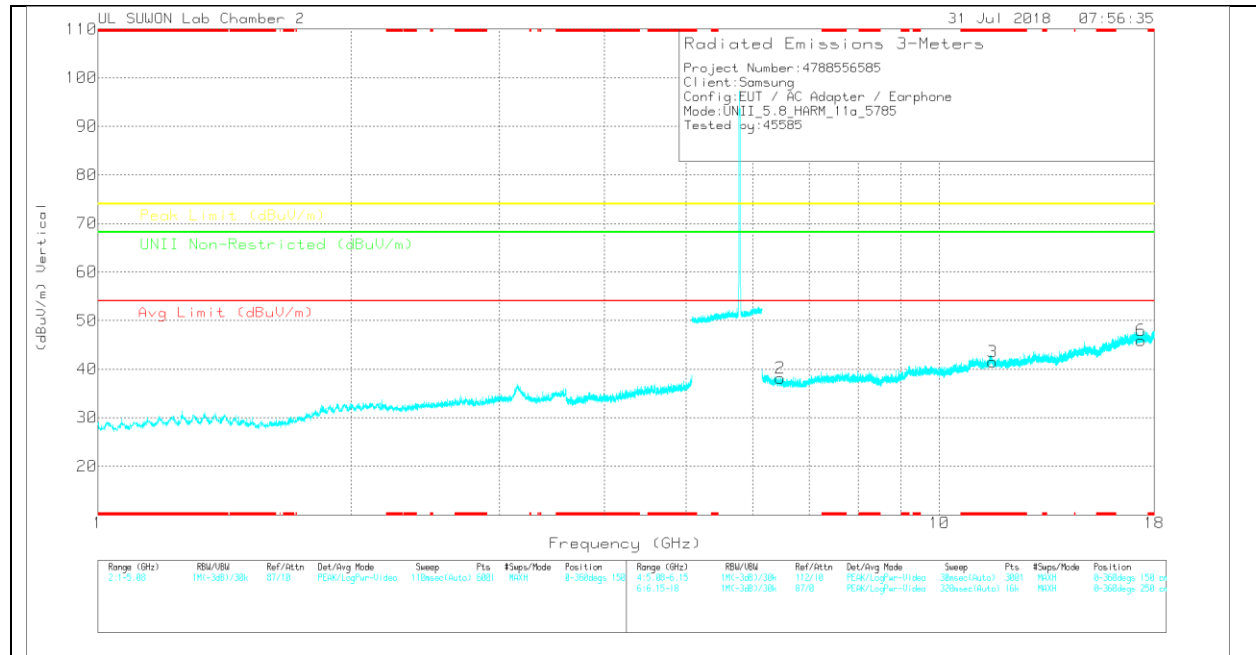
PK – Peak Detector

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

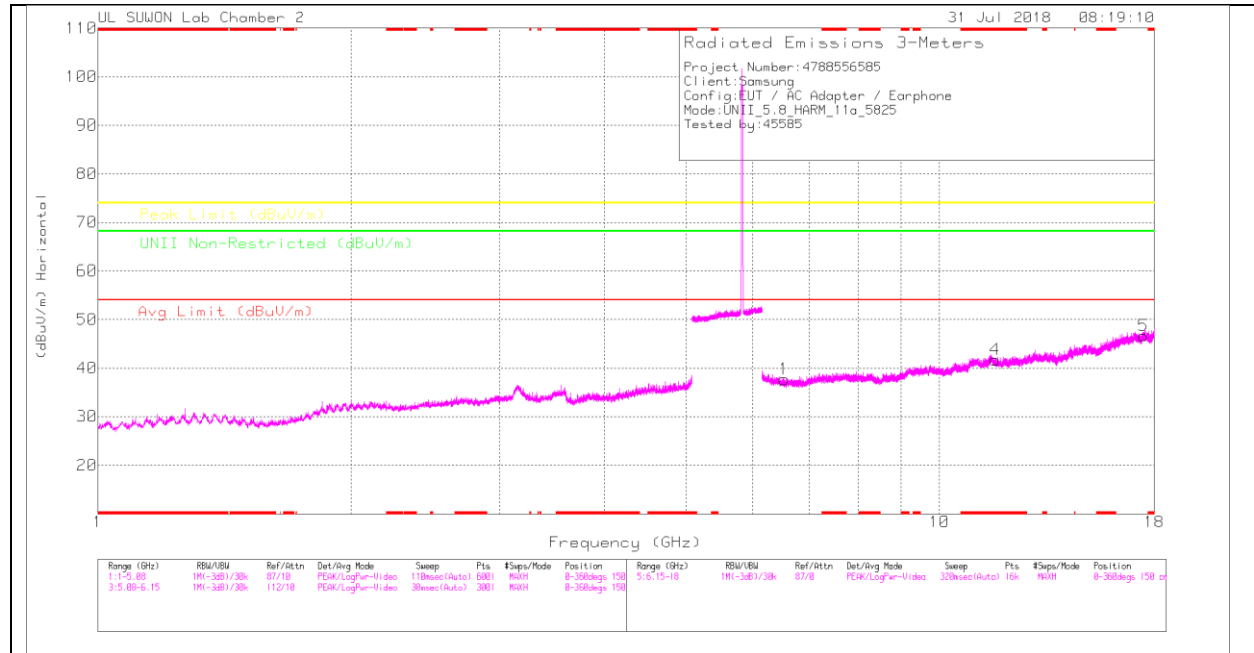
Marker	Frequency (GHz)	Marker Reading (dBuV)	Det	170531_1117(001887 24)	6GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unli Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	6.473	24.43	PK	35.1	-21.9	0	37.63	-	-	-	-	68.2	-30.57	0-360	150	H
4	* 11.571	19.44	PK	38.2	-15.9	0	41.74	-	-	74	-32.26	-	-	0-360	250	H
5	17.356	17.41	PK	41.4	-13.3	0	45.51	-	-	-	-	68.2	-22.69	0-360	250	H
2	6.47	24.93	PK	35.1	-21.9	0	38.13	-	-	-	-	68.2	-30.07	0-360	150	V
3	* 11.568	19.24	PK	38.2	-15.9	0	41.54	-	-	74	-32.46	-	-	0-360	250	V
6	17.356	17.79	PK	41.4	-13.3	0	45.89	-	-	-	-	68.2	-22.31	0-360	250	V

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

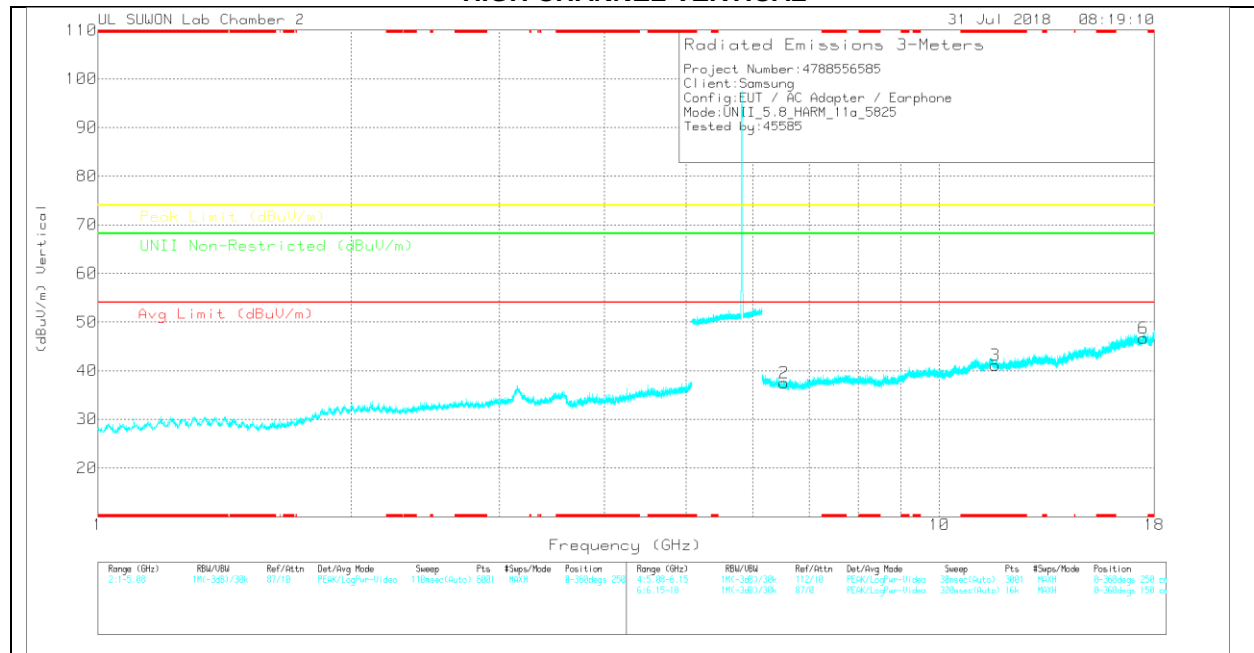
PK – Peak Detector

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	170531_3117003887 24]	60Hz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unlit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	6.534	24.98	PK	35.1	-22.4	0	37.68	-	-	-	-	68.2	-30.52	0-360	150	H
4	*11.651	19.29	PK	38.1	-15.7	0	41.69	-	-	74	-32.31	-	-	0-360	250	H
5	17.475	17.59	PK	41.3	-12.2	0	46.69	-	-	-	-	68.2	-21.51	0-360	150	H
2	6.536	24.76	PK	35.1	-22.4	0	37.46	-	-	-	-	68.2	-30.74	0-360	250	V
3	*11.651	18.76	PK	38.1	-15.7	0	41.16	-	-	74	-32.84	-	-	0-360	150	V
6	17.476	17.72	PK	41.2	-12.2	0	46.72	-	-	-	-	68.2	-21.48	0-360	150	V

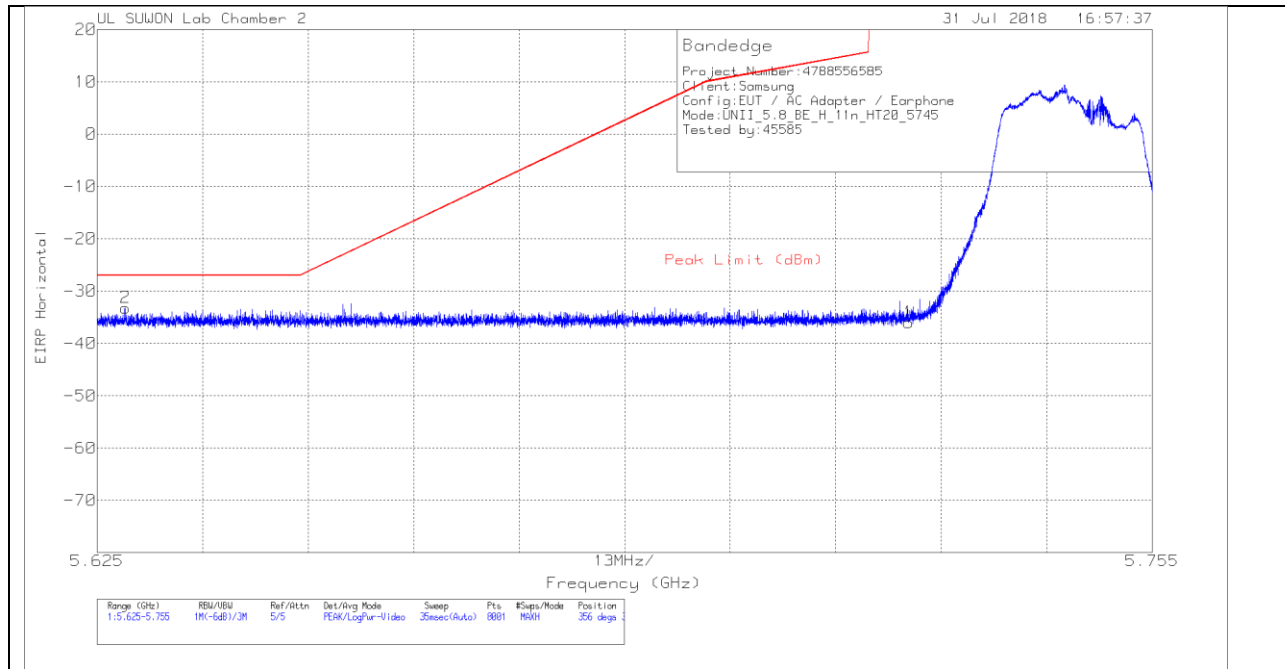
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak Detector

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

11.4.2.TX ABOVE 1GHz 802.11n HT20 2Tx CDD MODE IN THE 5.8GHz BAND BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK PLOT



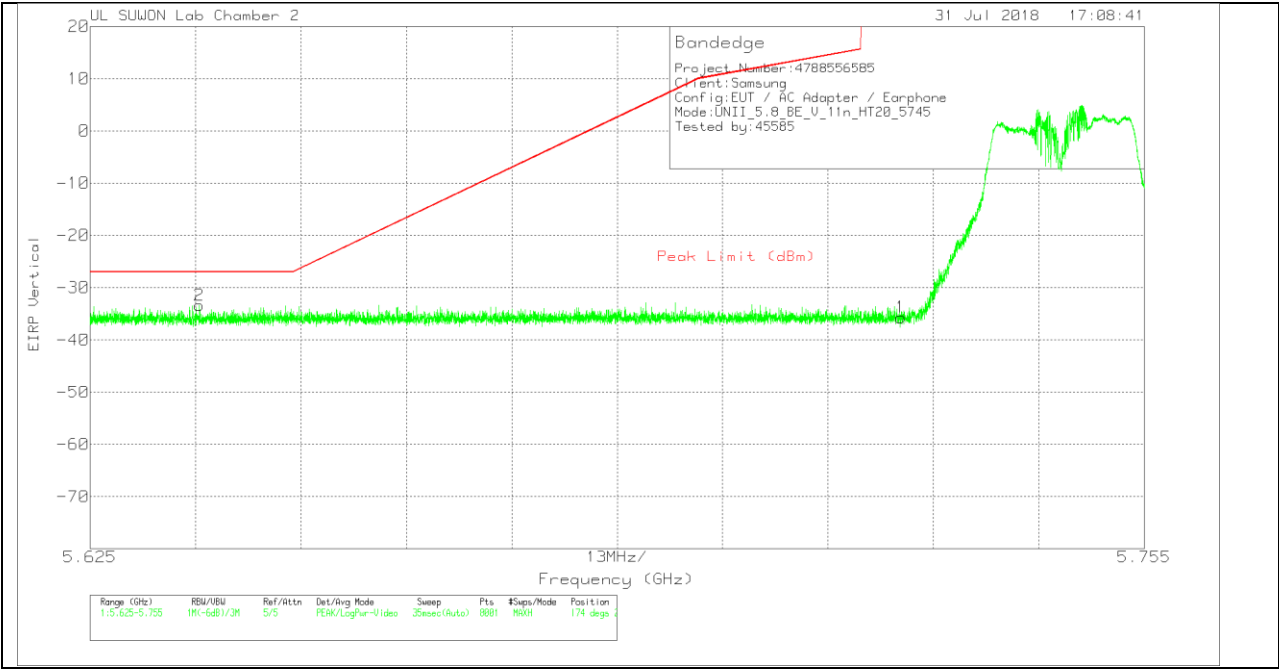
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-66.7	Pk	34.5	-15.6	11.8	0	-36	278.26	-314.26	356	354	H
2	5.629	-63.69	Pk	34.4	-15.7	11.8	0	-33.19	-27	-6.19	356	354	H

Pk - Peak detector

VERTICAL PEAK PLOT



VERTICAL DATA

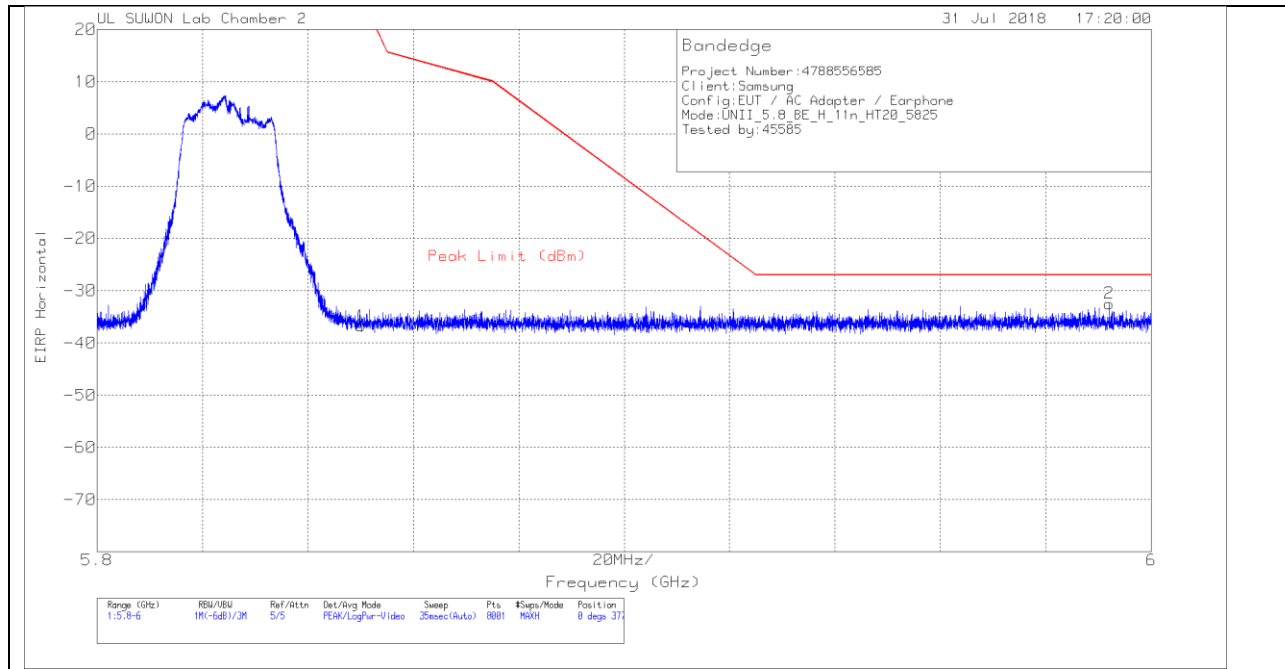
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-66.39	Pk	34.5	-15.6	11.8	0	-35.69	278.26	-313.95	174	222	V
2	5.639	-63.89	Pk	34.4	-15.7	11.8	0	-33.39	-27	-6.39	174	222	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



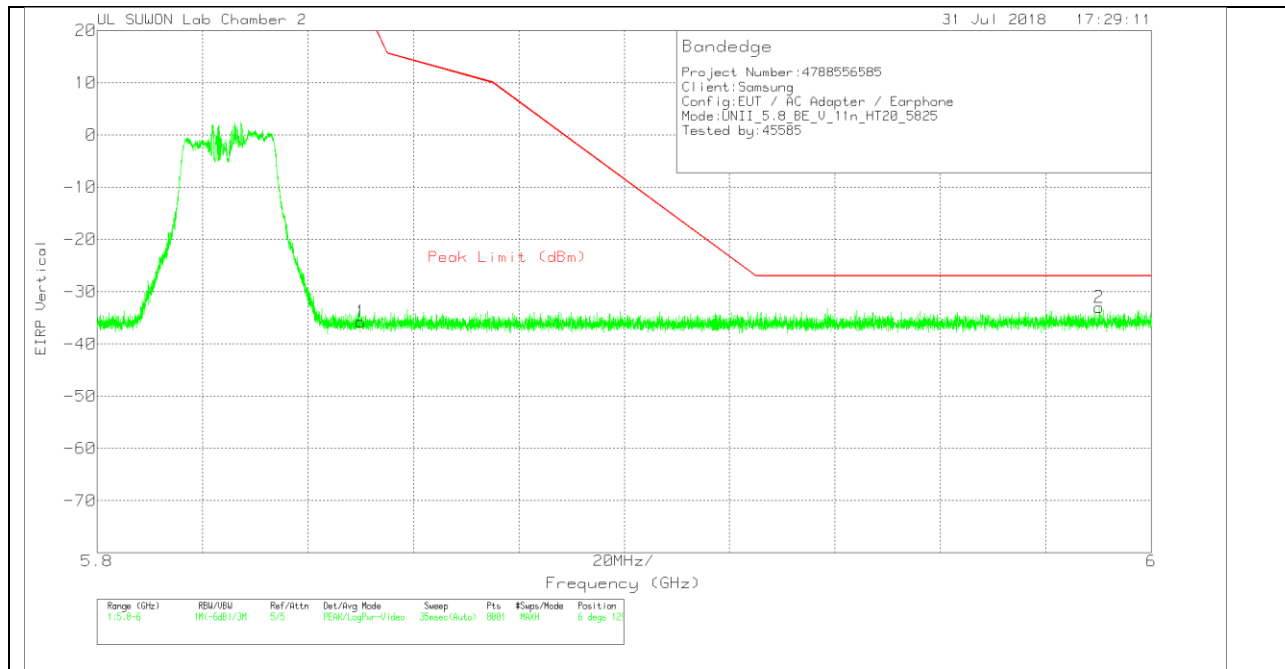
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-67.55	Pk	34.5	-15.5	11.8	0	-36.75	26.94	-63.69	0	377	H
2	5.992	-63.66	Pk	34.8	-15.4	11.8	0	-32.46	-27	-5.46	0	377	H

Pk - Peak detector

VERTICAL PEAK PLOT



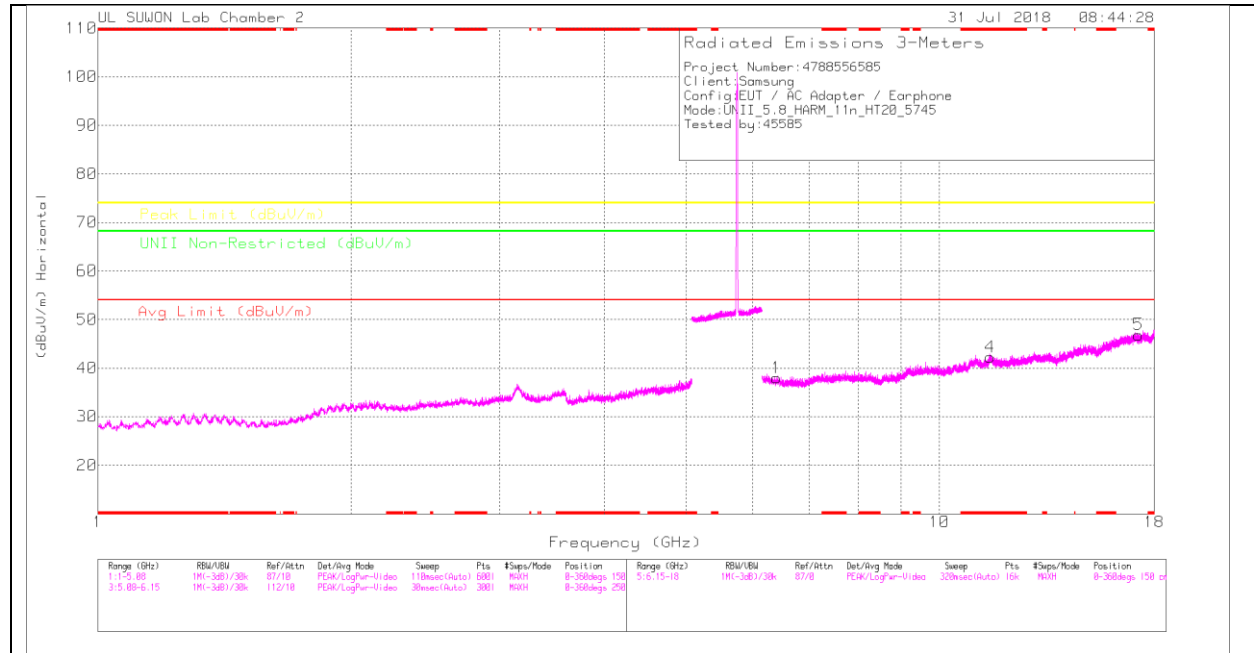
VERTICAL DATA

Trace Markers

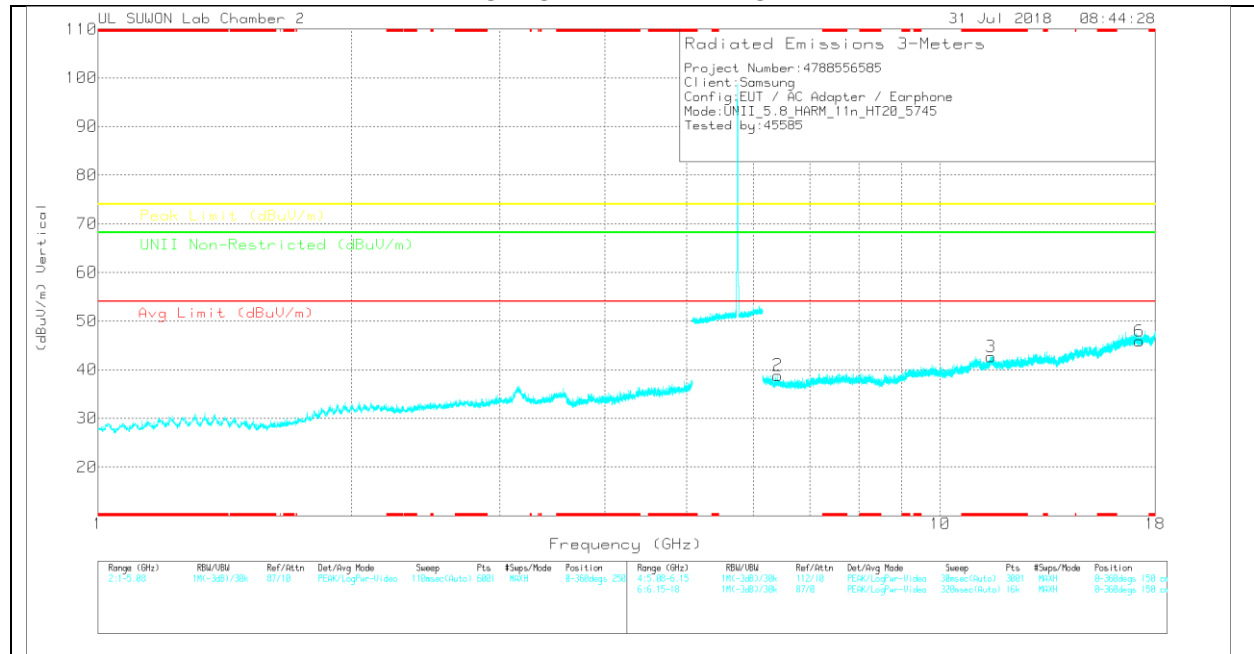
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-66.56	Pk	34.5	-15.5	11.8	0	-35.76	26.94	-62.7	6	129	V
2	5.99	-64.17	Pk	34.8	-15.4	11.8	0	-32.97	-27	-5.97	6	129	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

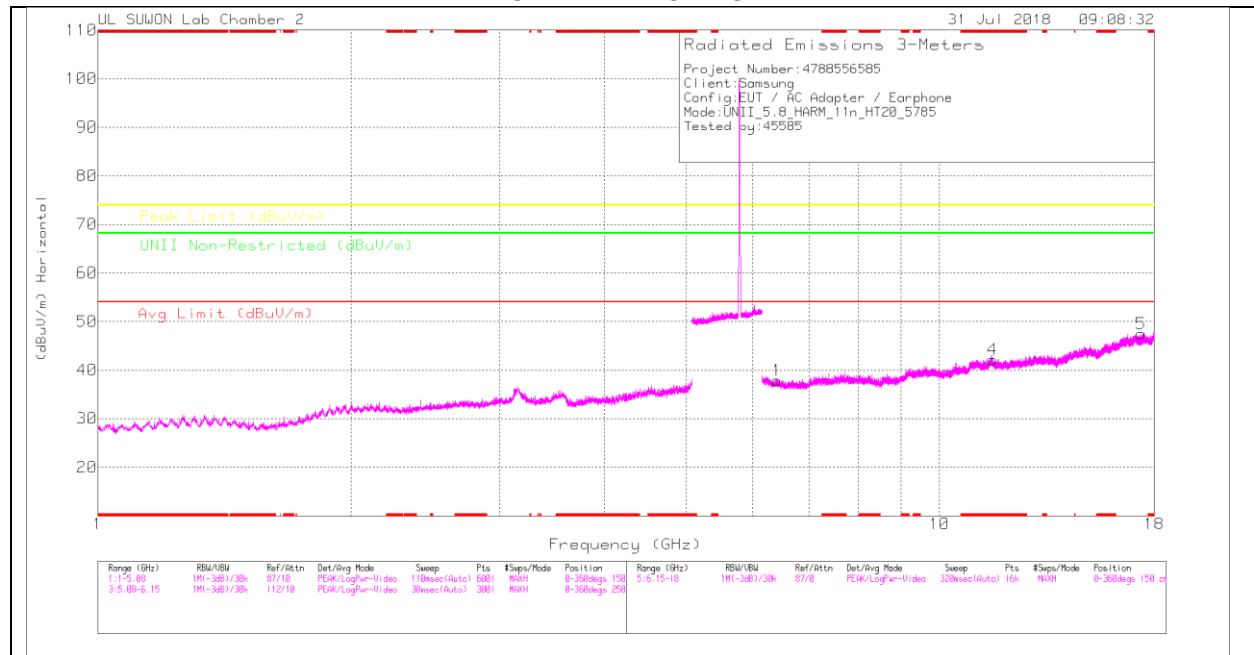
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117003887_24	60Hz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unlit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	6.407	24.64	PK	35.1	-21.7	0	38.04	-	-	-	-	68.2	-30.16	0-360	250	H
4	*11.486	20.02	PK	38.2	-15.9	0	42.32	-	-	74	-31.68	-	-	0-360	150	H
5	17.235	18.76	PK	41.6	-13.5	0	46.86	-	-	-	-	68.2	-21.34	0-360	150	H
2	6.415	25.24	PK	35.1	-21.5	0	38.84	-	-	-	-	68.2	-29.36	0-360	150	V
3	*11.493	20.32	PK	38.2	-15.9	0	42.62	-	-	74	-31.38	-	-	0-360	150	V
6	17.237	17.66	PK	41.6	-13.4	0	45.86	-	-	-	-	68.2	-22.34	0-360	250	V

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

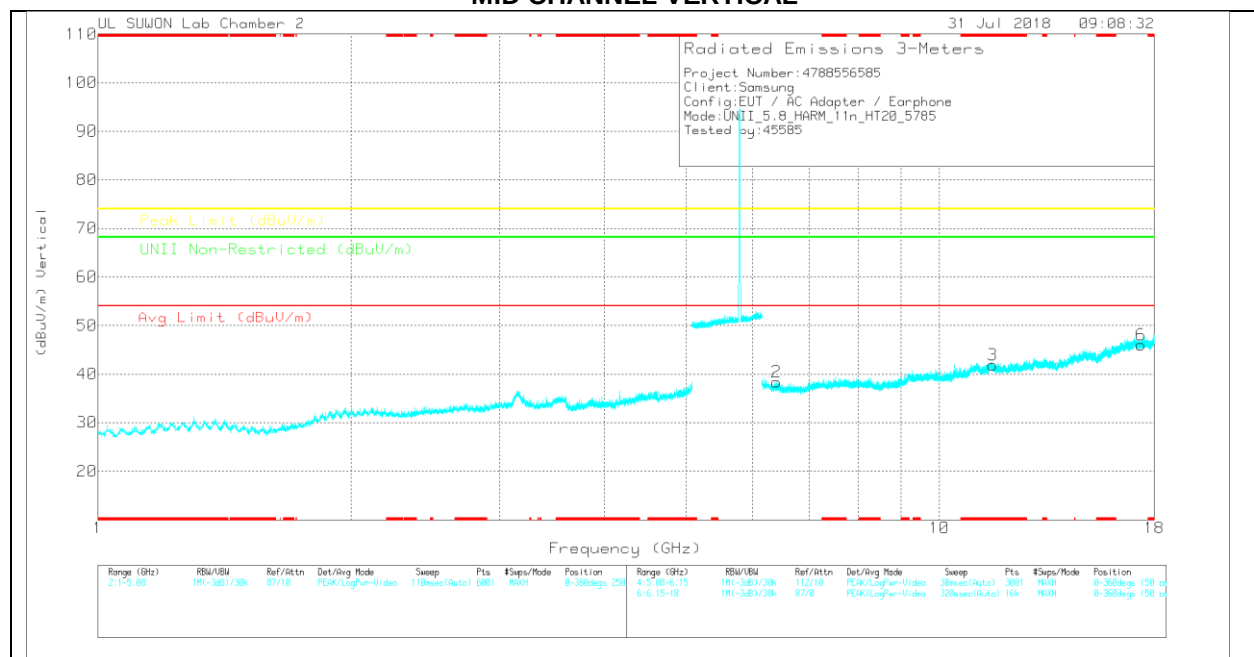
PK – Peak Detector

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

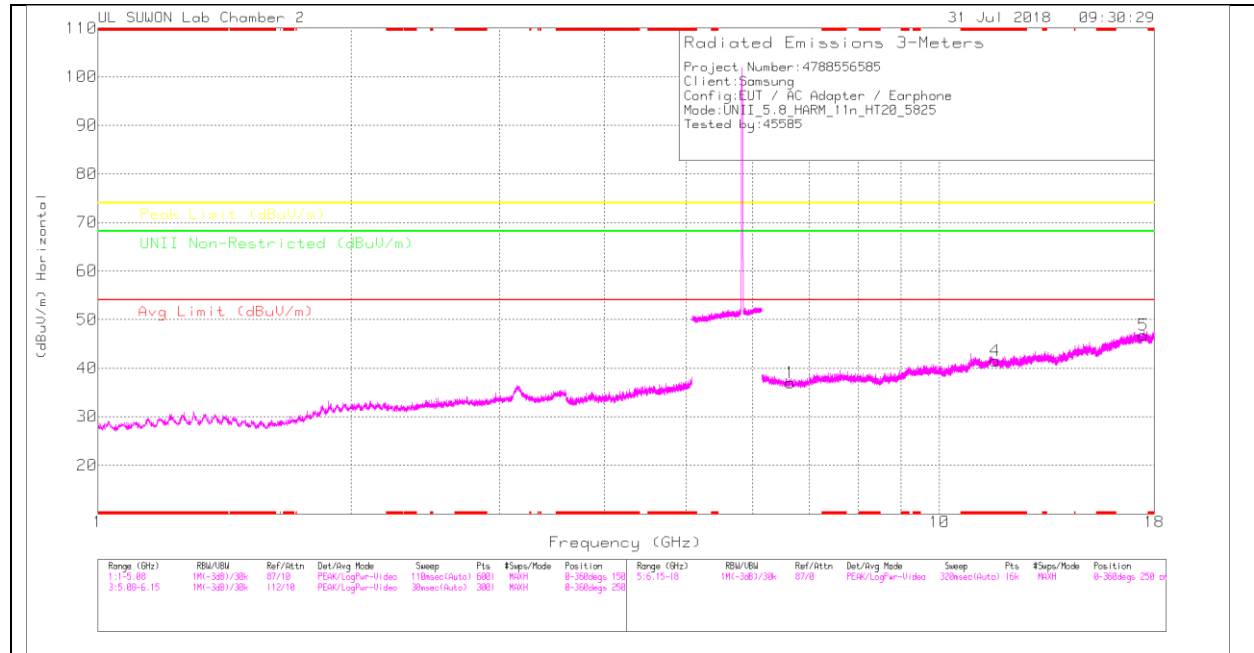
Marker	Frequency (GHz)	Marker Reading (dBuV)	Det	170531_1117(001887 24)	6GHz_HF(0dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unl Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	6.411	24.41	PK	35.1	-21.6	0	37.91	-	-	-	-	68.2	-30.29	0-360	250	H
4	* 11.567	19.88	PK	38.2	-15.9	0	42.18	-	-	74	-31.82	-	-	0-360	250	H
5	17.357	19.35	PK	41.4	-13.3	0	47.45	-	-	-	-	68.2	-20.75	0-360	150	H
2	6.407	24.98	PK	35.1	-21.7	0	38.38	-	-	-	-	68.2	-29.82	0-360	250	V
3	* 11.569	19.57	PK	38.2	-15.9	0	41.87	-	-	74	-32.13	-	-	0-360	250	V
6	17.358	17.9	PK	41.4	-13.3	0	46	-	-	-	-	68.2	-22.2	0-360	150	V

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

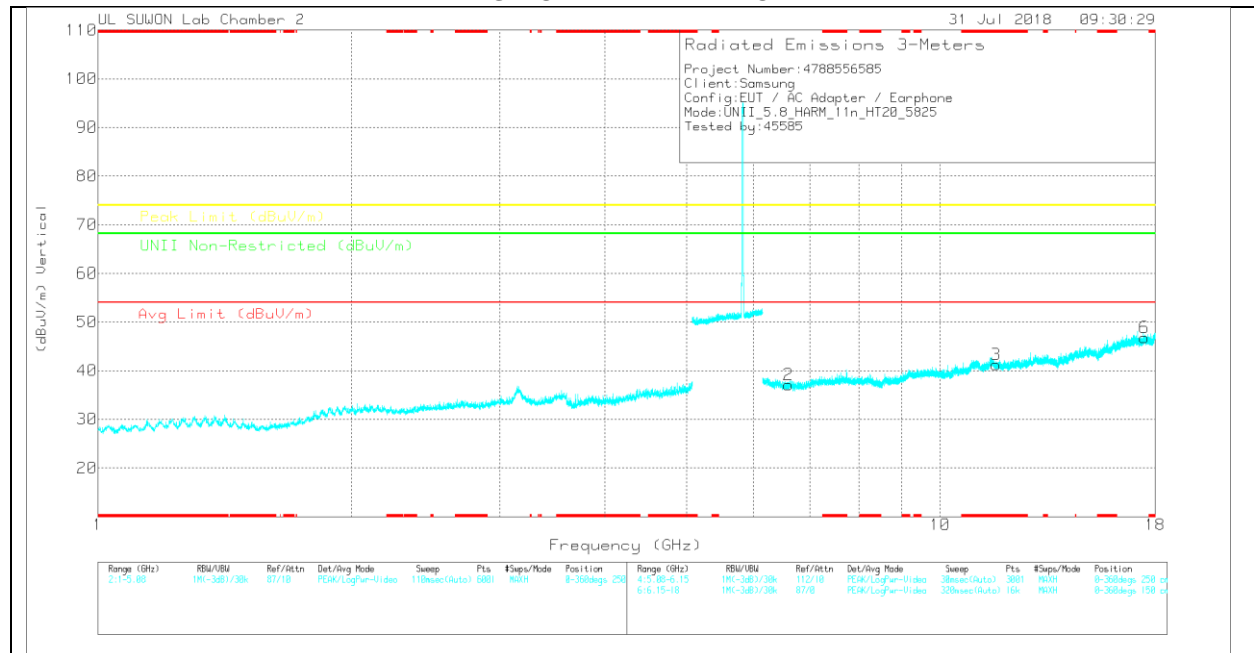
PK – Peak Detector

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	170531_3117003887_24	60Hz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unlit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	6.648	23.52	PK	35.2	-21.7	0	37.02	-	-	-	-	68.2	-31.18	0-360	250	H
4	*11.651	19.07	PK	38.1	-15.7	0	41.47	-	-	74	-32.53	-	-	0-360	250	H
5	17.477	17.83	PK	41.2	-12.2	0	46.83	-	-	-	-	68.2	-21.37	0-360	250	H
2	6.602	24.02	PK	35.1	-22	0	37.12	-	-	-	-	68.2	-31.08	0-360	150	V
3	*11.653	18.98	PK	38.1	-15.8	0	41.28	-	-	74	-32.72	-	-	0-360	250	V
6	17.476	17.81	PK	41.2	-12.2	0	46.81	-	-	-	-	68.2	-21.39	0-360	150	V

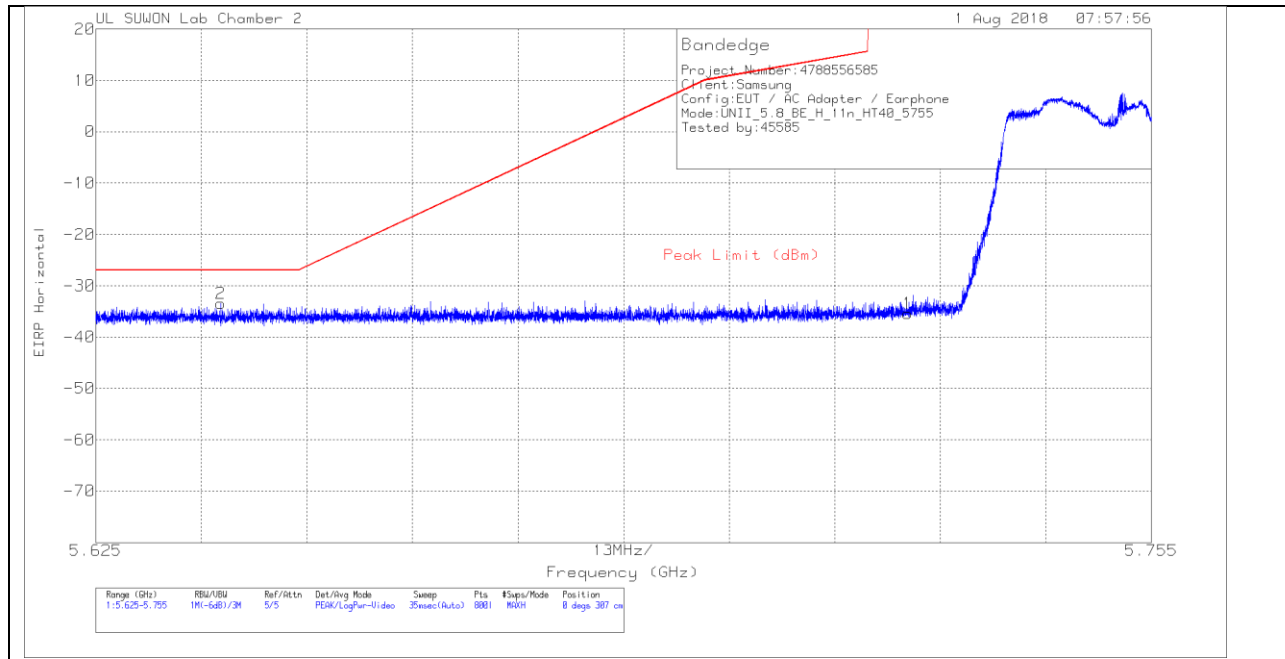
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK – Peak Detector

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

11.4.3.TX ABOVE 1GHz 802.11n HT40 2Tx CDD MODE IN THE 5.8GHz BAND BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK PLOT



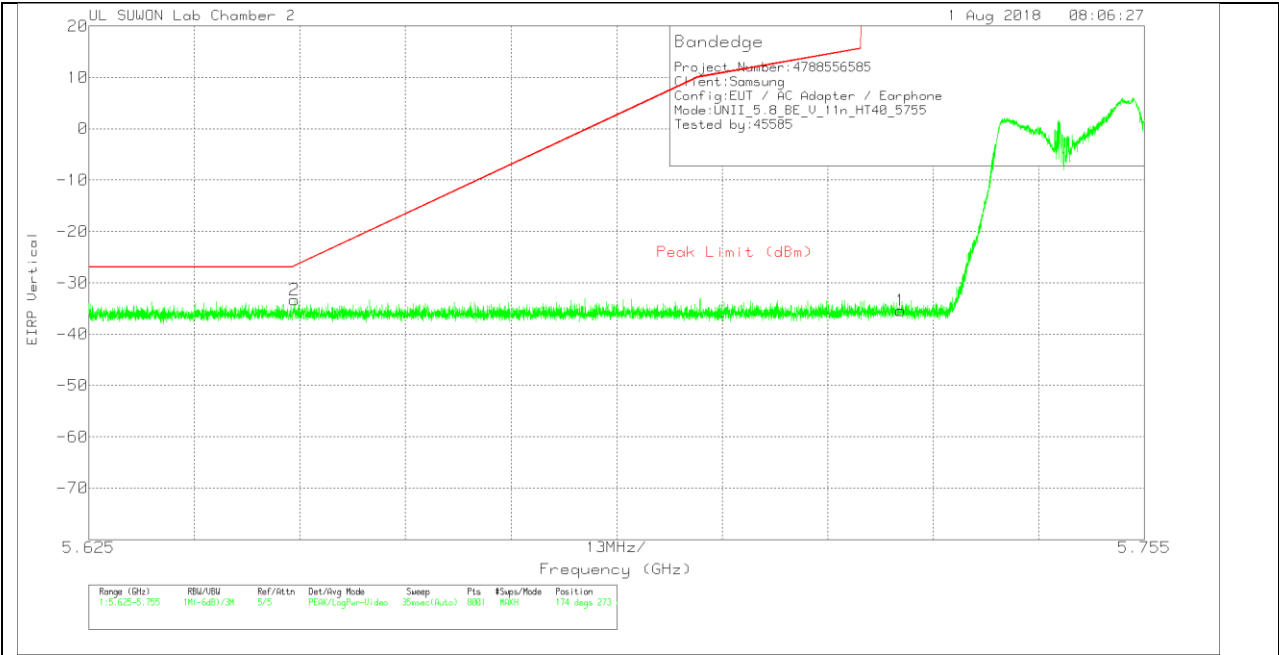
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-66.08	Pk	34.5	-15.6	11.8	0	-35.38	278.26	-313.64	0	307	H
2	5.64	-63.93	Pk	34.4	-15.7	11.8	0	-33.43	-27	-6.43	0	307	H

Pk - Peak detector

VERTICAL PEAK PLOT



VERTICAL DATA

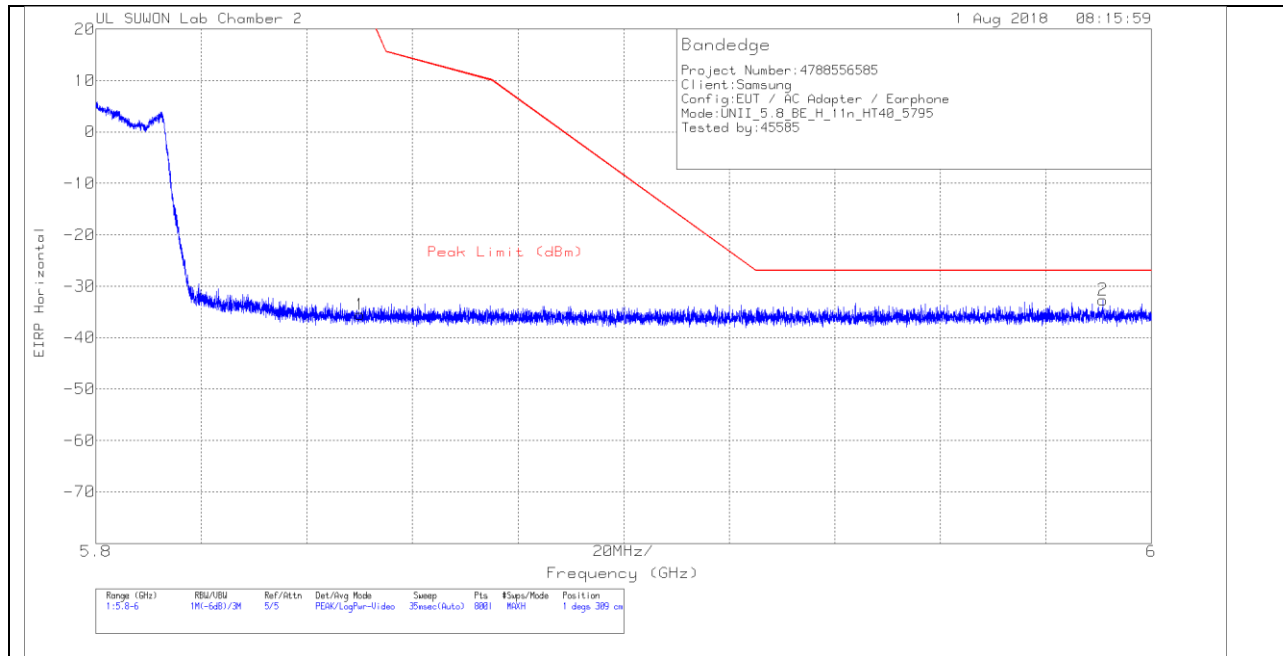
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-66.1	Pk	34.5	-15.6	11.8	0	-35.4	278.26	-313.66	174	273	V
2	5.65	-63.85	Pk	34.4	-15.7	11.8	0	-33.35	-26.76	-6.59	174	273	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK PLOT



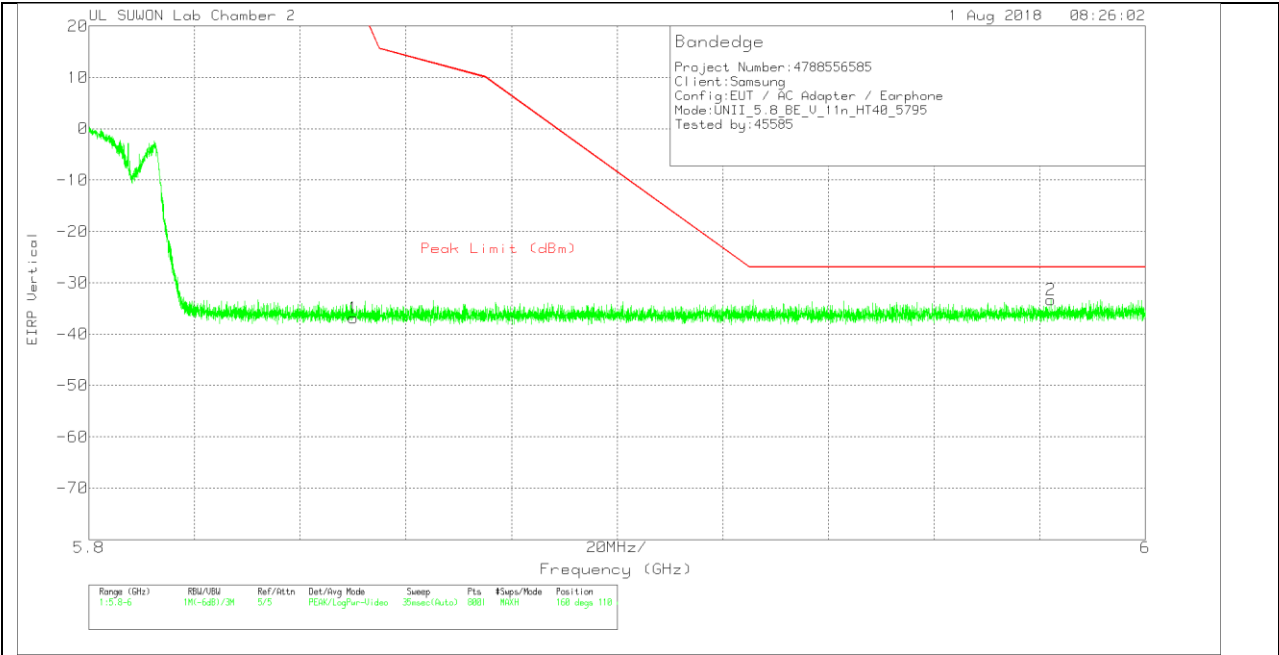
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-66.31	Pk	34.5	-15.5	11.8	0	-35.51	26.94	-62.45	1	309	H
2	5.991	-63.84	Pk	34.8	-15.4	11.8	0	-32.64	-27	-5.64	1	309	H

Pk - Peak detector

VERTICAL PEAK PLOT



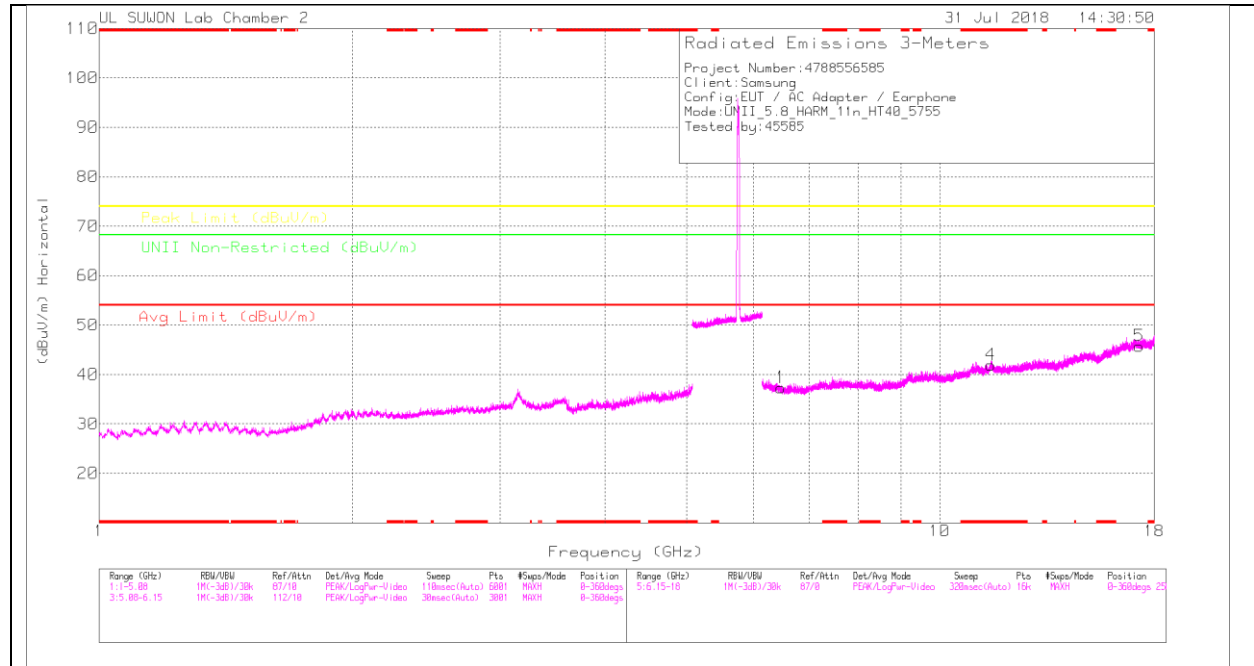
VERTICAL DATA

Trace Markers

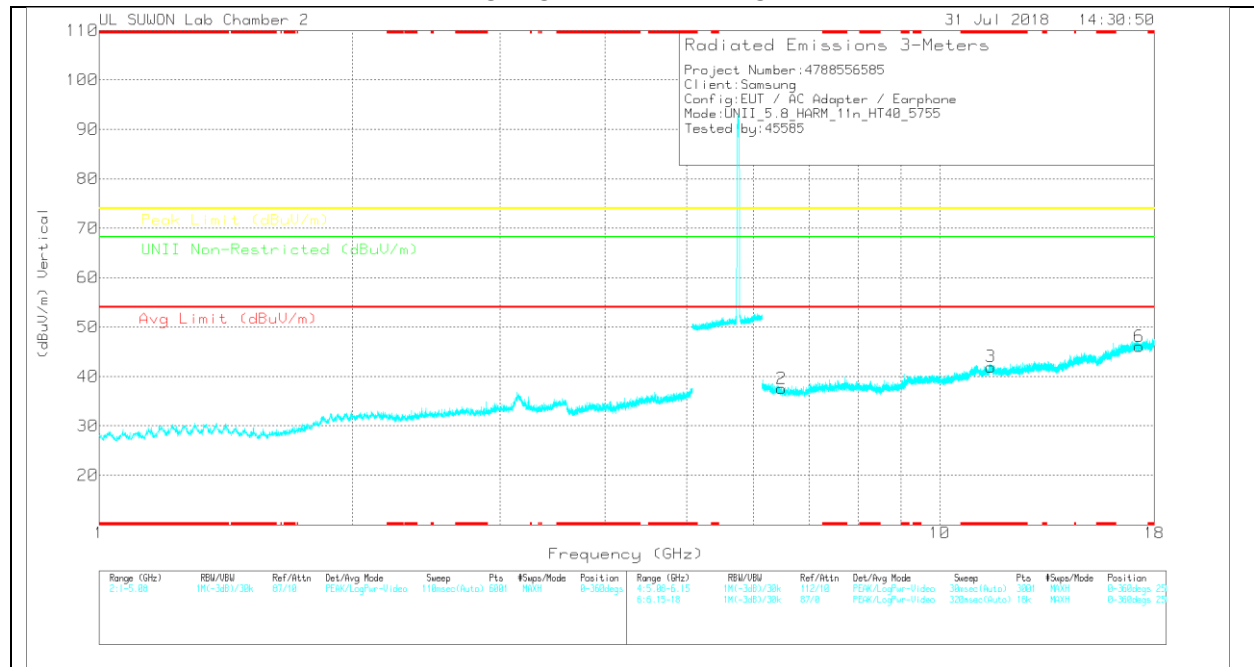
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-67.66	Pk	34.5	-15.5	11.8	0	-36.86	26.94	-63.8	160	110	V
2	5.982	-64.36	Pk	34.7	-15.4	11.8	0	-33.26	-27	-6.26	160	110	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

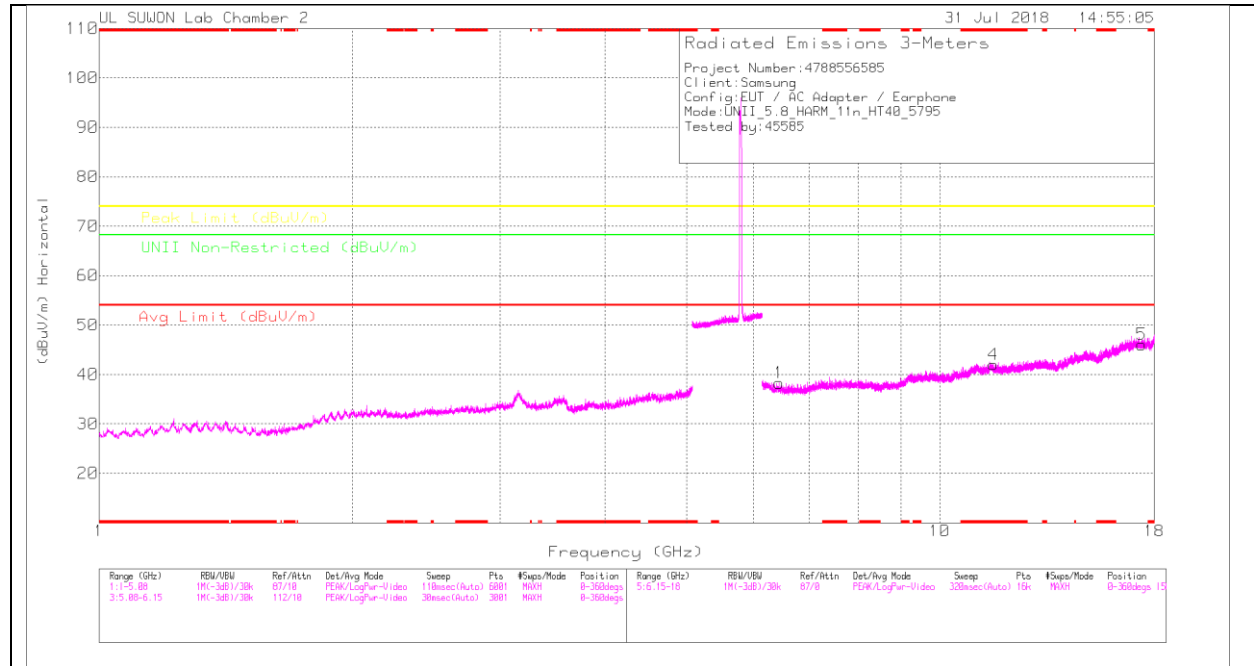
Marker	Frequency (GHz)	Marker Reading (dBuV)	Det	170531_3117003887_24]	60Hz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unli Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	6.477	24.26	PK	35.1	-22	0	37.36	-	-	-	-	68.2	-30.84	0-360	150	H
4	* 11.51	19.63	PK	38.2	-15.9	0	41.93	-	-	74	-32.07	-	-	0-360	150	H
5	17.265	17.66	PK	41.5	-13.4	0	45.76	-	-	-	-	68.2	-22.44	0-360	250	H
2	6.483	24.46	PK	35.1	-22	0	37.56	-	-	-	-	68.2	-30.64	0-360	250	V
3	* 11.511	19.65	PK	38.2	-15.9	0	41.95	-	-	74	-32.05	-	-	0-360	250	V
6	17.265	17.96	PK	41.5	-13.4	0	46.06	-	-	-	-	68.2	-22.14	0-360	250	V

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

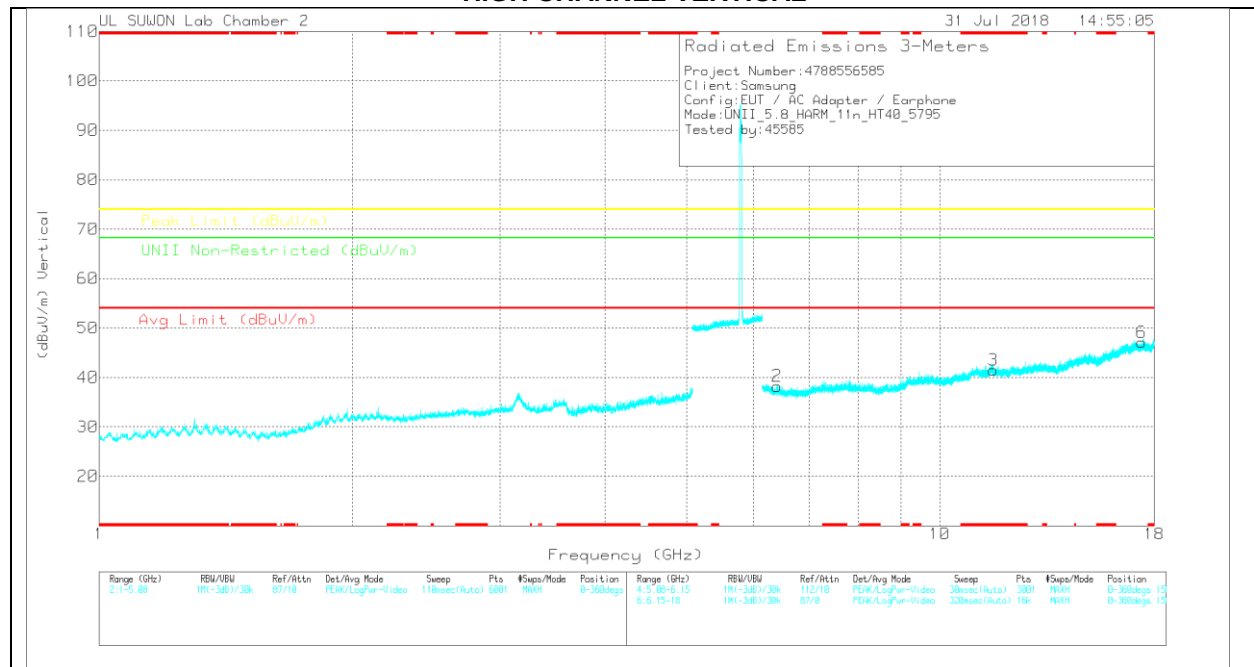
PK – Peak Detector

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	170531_3117003887 24]	60Hz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unlit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	6.444	24.77	PK	35.1	-21.6	0	38.27	-	-	-	-	68.2	-29.93	0-360	250	H
4	* 11.59	19.72	PK	38.2	-15.9	0	42.02	-	-	74	-31.98	-	-	0-360	150	H
5	17.385	17.85	PK	41.3	-13.1	0	46.05	-	-	-	-	68.2	-22.15	0-360	250	H
2	6.405	24.85	PK	35.1	-21.7	0	38.25	-	-	-	-	68.2	-29.95	0-360	250	V
3	* 11.586	19.08	PK	38.2	-15.8	0	41.48	-	-	74	-32.52	-	-	0-360	150	V
6	17.385	18.88	PK	41.3	-13.1	0	47.08	-	-	-	-	68.2	-21.12	0-360	250	V

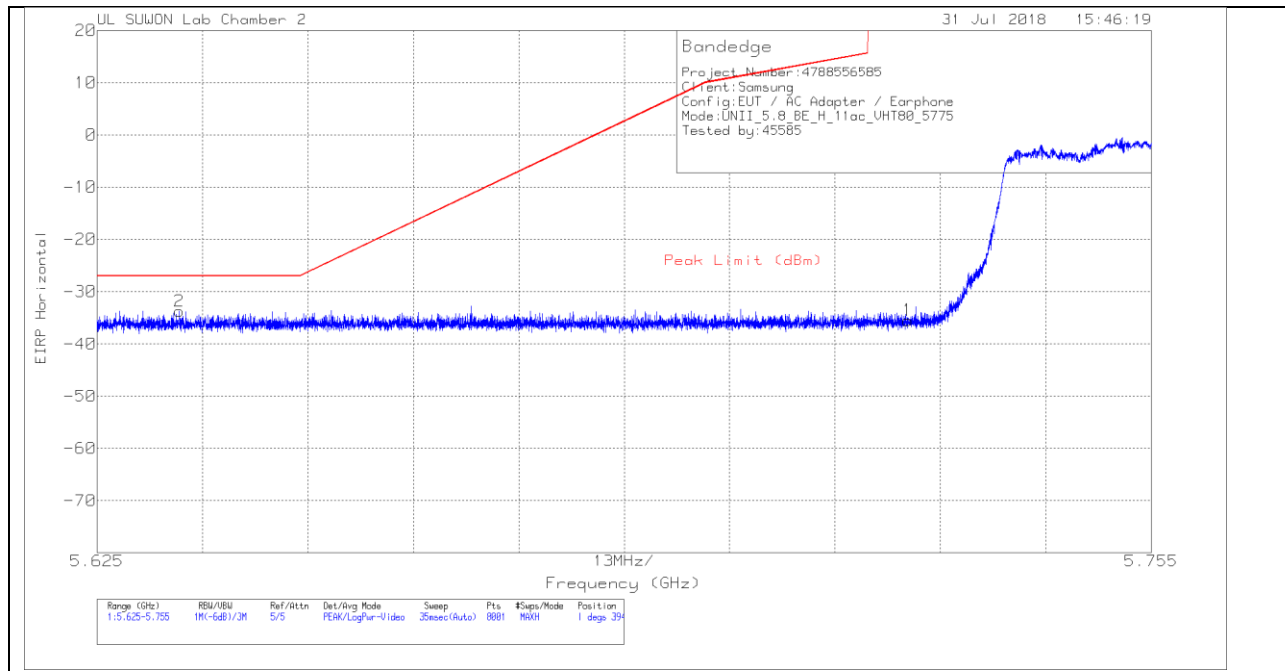
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK – Peak Detector

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

11.4.4.TX ABOVE 1GHz 802.11ac VHT80 2Tx CDD MODE IN THE 5.8GHz BAND BANDEDGE (Lower side)

HORIZONTAL PEAK PLOT



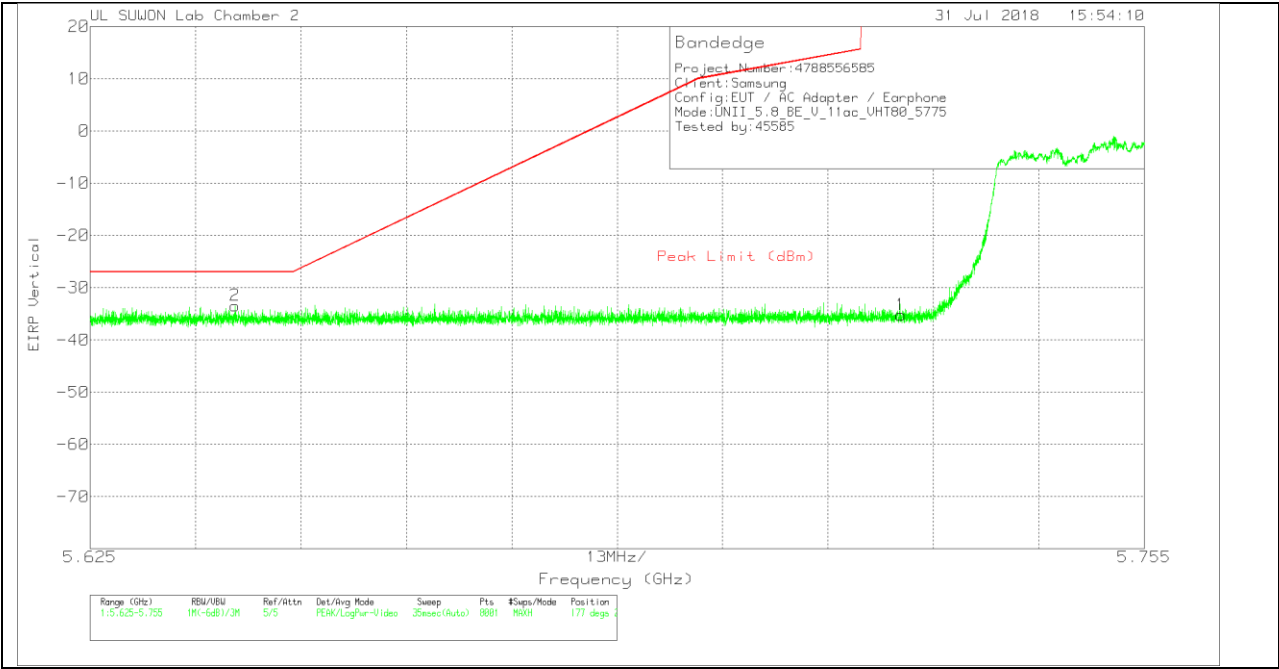
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-66.2	Pk	34.5	-15.6	11.8	0	-35.5	278.26	-313.76	1	394	H
2	5.635	-64.24	Pk	34.4	-15.7	11.8	0	-33.74	-27	-6.74	1	394	H

Pk - Peak detector

VERTICAL PEAK PLOT



VERTICAL DATA

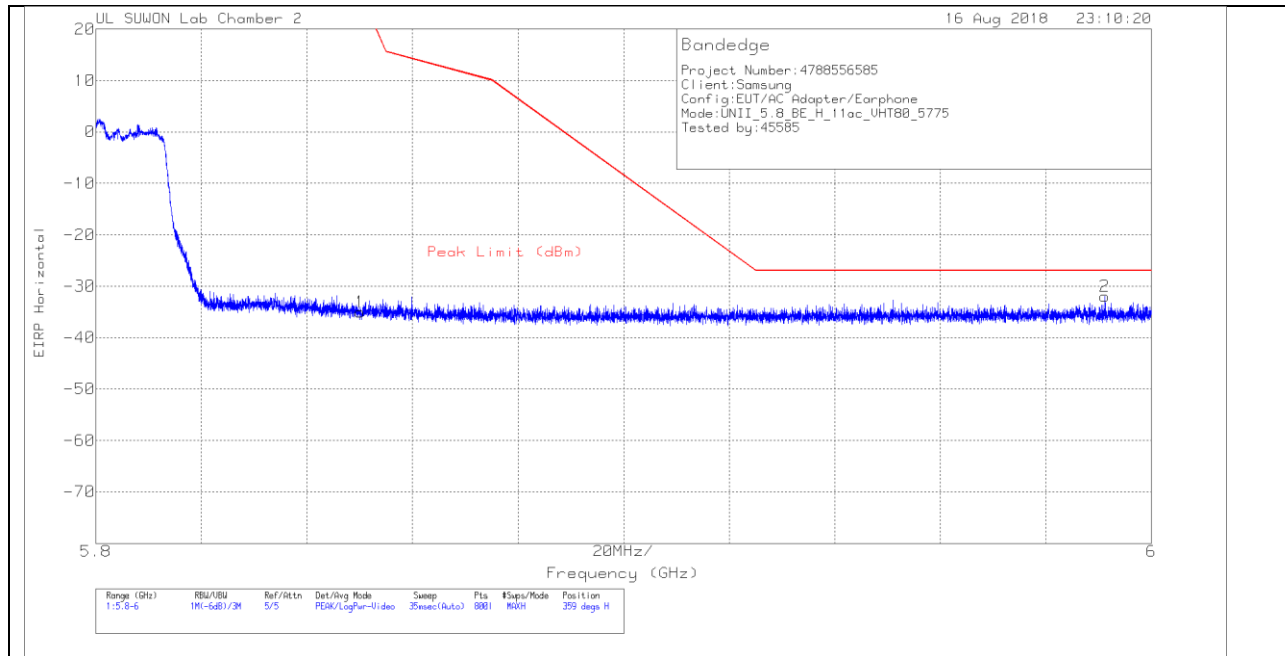
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-65.92	Pk	34.5	-15.6	11.8	0	-35.22	278.26	-313.48	177	283	V
2	5.643	-63.93	Pk	34.4	-15.7	11.8	0	-33.43	-27	-6.43	177	283	V

Pk - Peak detector

BANDEDGE (Upper side)

HORIZONTAL PEAK PLOT



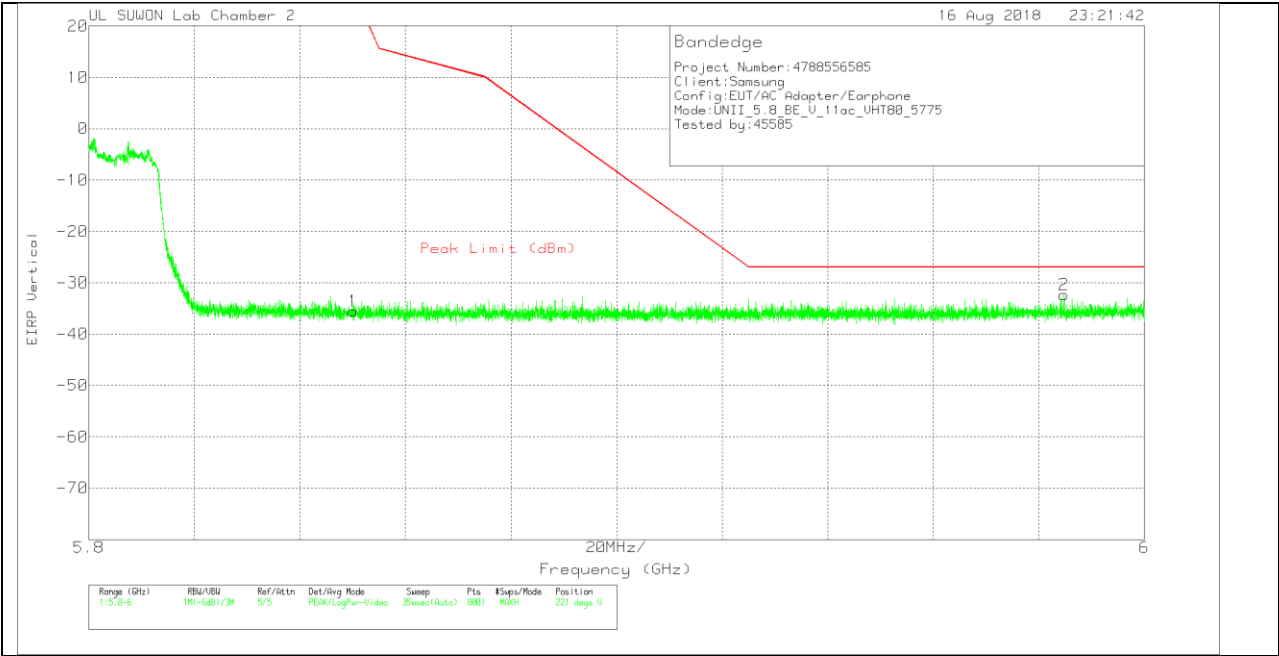
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-65.84	Pk	34.5	-15.5	11.8	0	-35.04	26.94	-61.98	359	297	H
2	5.991	-63.16	Pk	34.8	-15.4	11.8	0	-31.96	-27	-4.96	359	297	H

Pk - Peak detector

VERTICAL PEAK PLOT



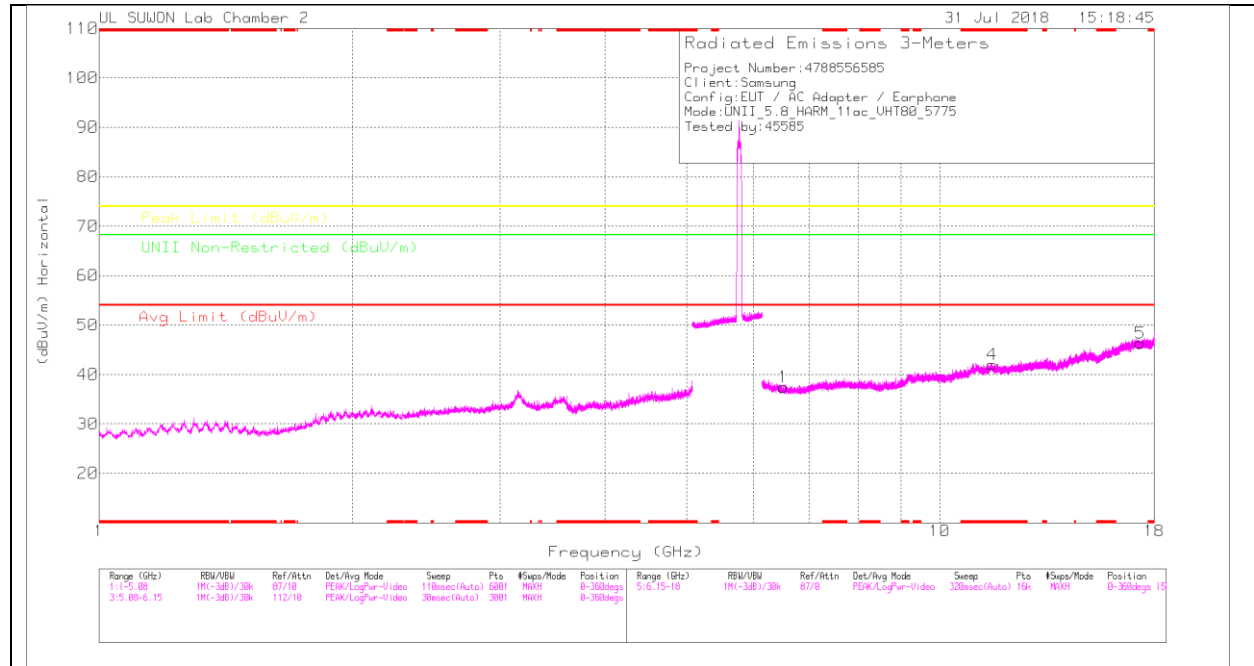
VERTICAL DATA

Trace Markers

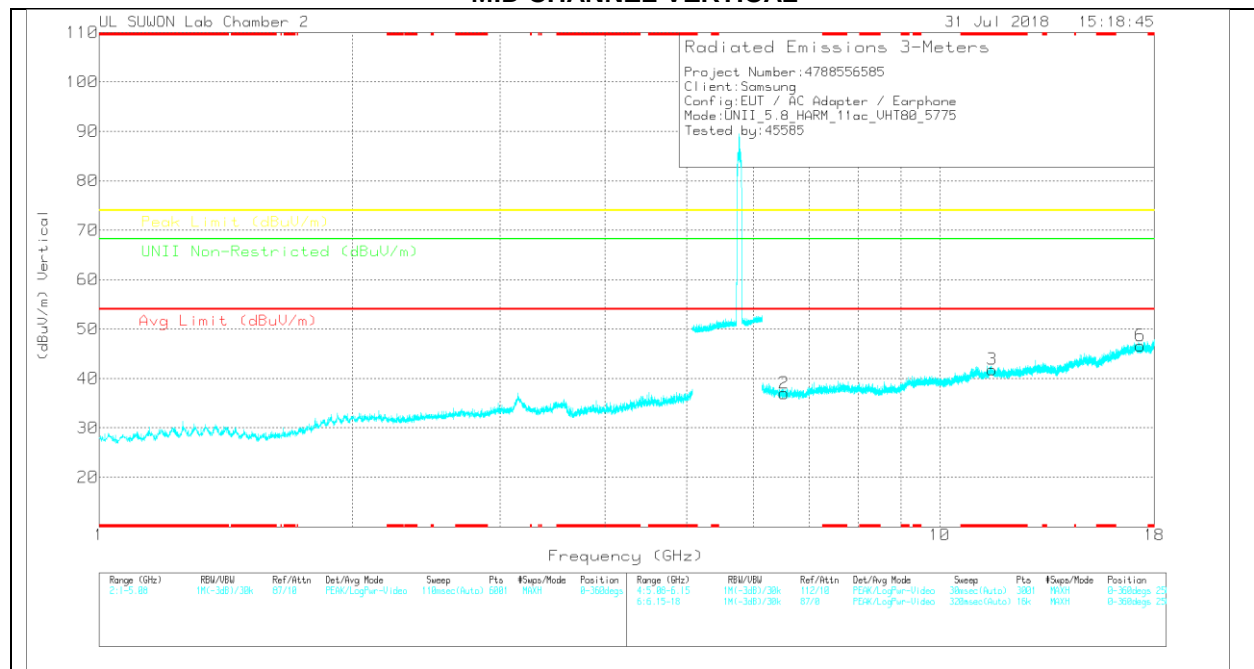
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-66.27	Pk	34.5	-15.5	11.8	0	-35.47	26.94	-62.41	221	100	V
2	5.985	-63.39	Pk	34.7	-15.4	11.8	0	-32.29	-27	-5.29	221	100	V

Pk - Peak detector

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	170531_3117003887 24]	60Hz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unlit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	6.515	24.61	PK	35.1	-22.3	0	37.41	-	-	-	-	68.2	-30.79	0-360	150	H
4	*11.552	19.69	PK	38.2	-15.9	0	41.99	-	-	74	-32.01	-	-	0-360	150	H
5	17.329	18.12	PK	41.4	-13.2	0	46.32	-	-	-	-	68.2	-21.88	0-360	250	H
2	6.528	24.2	PK	35.1	-22.3	0	37	-	-	-	-	68.2	-31.2	0-360	150	V
3	*11.549	19.52	PK	38.2	-15.9	0	41.82	-	-	74	-32.18	-	-	0-360	150	V
6	17.33	18.45	PK	41.4	-13.2	0	46.65	-	-	-	-	68.2	-21.55	0-360	250	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-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).

11.5. Spurious Emissions for Simultaneous Transmission

Simultaneous TX Condition

Frequency	Supported
2.4 GHz Antenna 1 + 5 GHz Antenna 2	Yes
2.4 GHz Antenna 2 + 5 GHz Antenna 1	No
2.4 GHz Antenna 1 + 5 GHz Antenna 1	No
2.4 GHz Antenna 2 + 5 GHz Antenna 2	No

11.5.1. Worst test case condition

	ANTENNA 1 - 2.4GHz	ANTENNA 2 - 5GHz
Mode	802.11 b mode	802.11 a mode
Channel	11	52
Frequency	2462 MHz	5260 MHz
Data Rate	1 Mbps	6 Mbps

NOTE

Max conducted power condition(channel and mode) were selected worst test case condition on each antenna. No significant emissions were detected, so after test lab. conducted with a combination of all channels in 2.4G and one channel in 5GHz, additional tests were conducted for below conditions.(with the worst channel 11 in 2.4GHz and the worst channel each band)
All test data complied FCC technical limit.

	ANTENNA 1 - 2.4GHz	ANTENNA 2 - 5GHz
Mode	802.11 b mode	802.11 a mode
Channel	11	40
Frequency	2462 MHz	5200 MHz
Data Rate	1 Mbps	6 Mbps

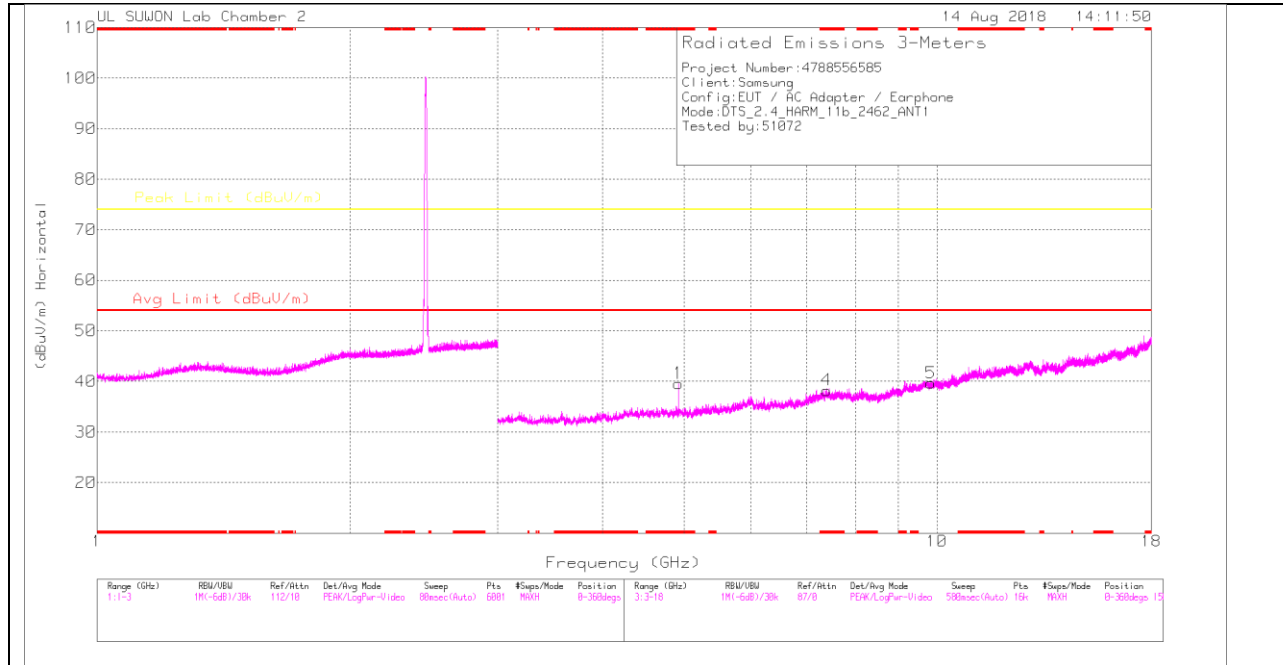
	ANTENNA 1 - 2.4GHz	ANTENNA 2 - 5GHz
Mode	802.11 b mode	802.11 a mode
Channel	11	100
Frequency	2462 MHz	5500 MHz
Data Rate	1 Mbps	6 Mbps

	ANTENNA 1 - 2.4GHz	ANTENNA 2 - 5GHz
Mode	802.11 b mode	802.11 a mode
Channel	11	149
Frequency	2462 MHz	5745 MHz
Data Rate	1 Mbps	6 Mbps

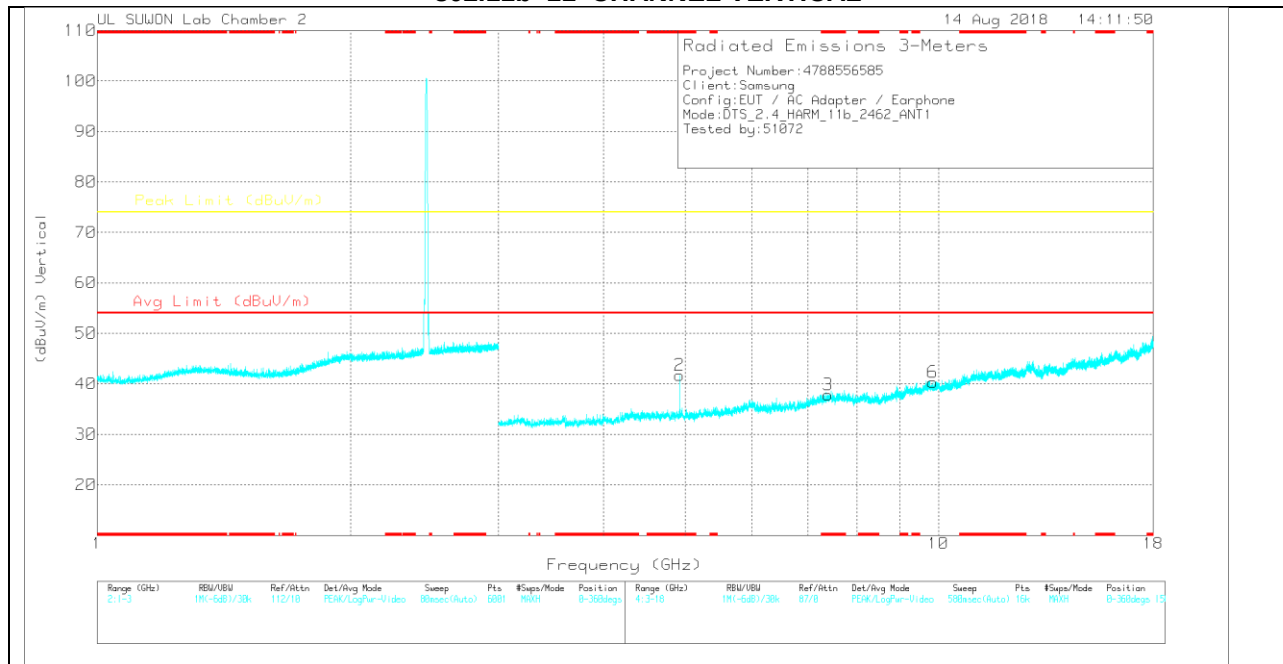
RESULTS

11.5.1.1. Spurious emission for ANTENNA 1

802.11b 11 CHANNEL HORIZONTAL



802.11b 11 CHANNEL VERTICAL



802.11g 1 CHANNEL VERTICAL

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.924	32.89	PK	34	-27.3	0	39.59	-	-	74	-34.41	0-360	150	H
4	* 7.39	26.24	PK	36.2	-24.2	0	38.24	-	-	74	-35.76	0-360	150	H
5	9.841	24.16	PK	37.3	-21.8	0	39.66	-	-	74	-34.34	0-360	150	H
2	* 4.924	35.01	PK	34	-27.3	0	41.71	-	-	74	-32.29	0-360	250	V
3	* 7.388	25.93	PK	36.2	-24.3	0	37.83	-	-	74	-36.17	0-360	150	V
6	9.846	24.81	PK	37.3	-21.8	0	40.31	-	-	74	-33.69	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.924	38.99	PK2	34	-27.3	0	45.69	-	-	74	-28.31	270	279	H
* 4.924	32.53	MAv1	34	-27.3	0	39.23	54	-14.77	-	-	270	279	H
* 4.924	40.42	PK2	34	-27.3	0	47.12	-	-	74	-26.88	81	249	V
* 4.924	34.99	MAv1	34	-27.3	0	41.69	54	-12.31	-	-	81	249	V

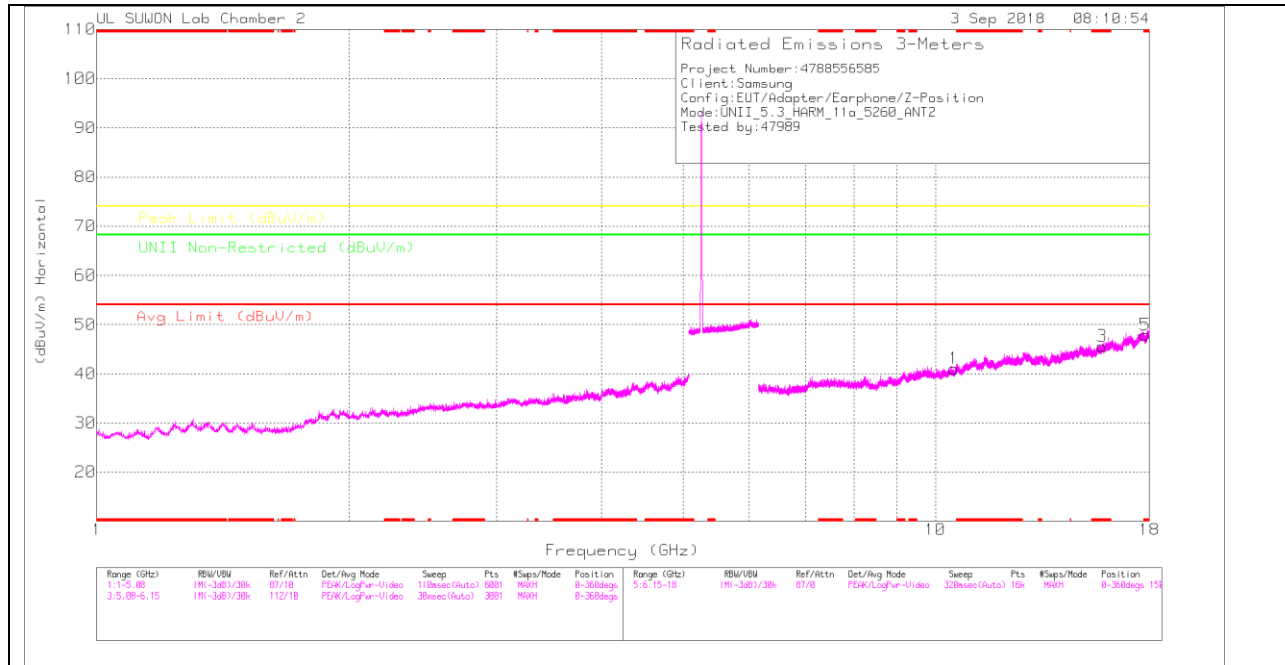
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

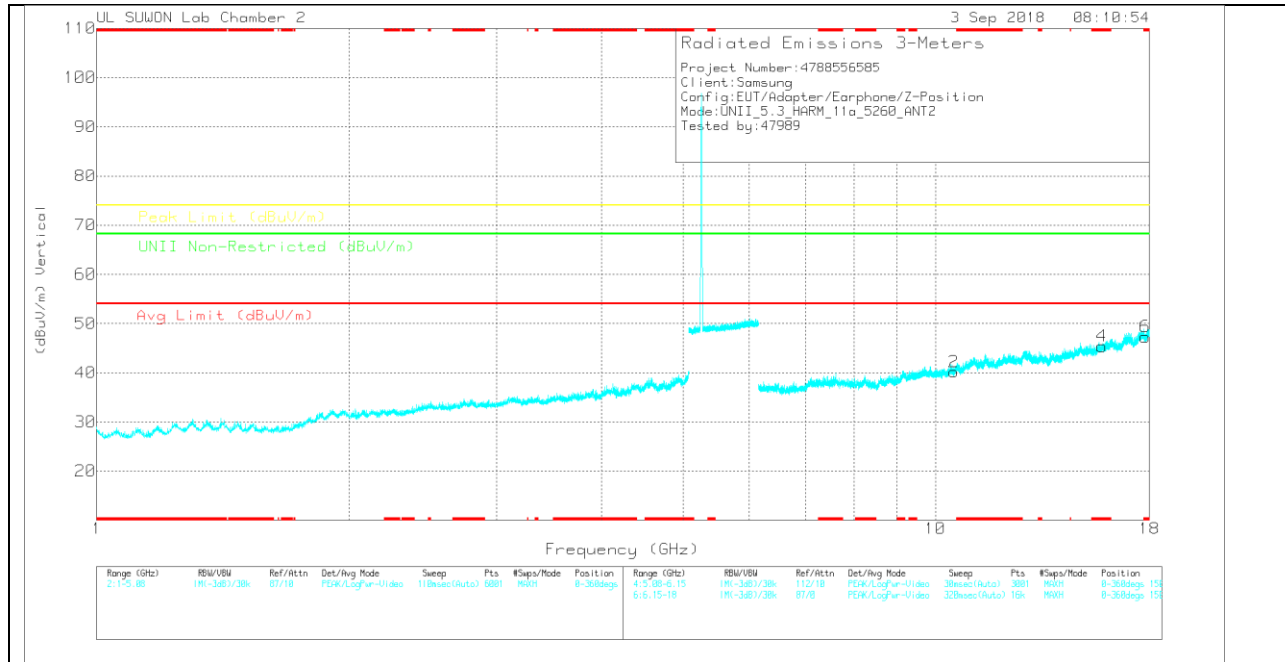
MAv1 - KDB558074 Option 1 Maximum RMS Average

11.5.1.2. Spurious emission for ANTENNA 2

802.11a 52 CHANNEL HORIZONTAL



802.11a 52 CHANNEL VERTICAL



802.11a 52 CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HF[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)	Asimuth (Degs)	Height (cm)	Polarity
1	10.516	24.04	PK	37.7	-20.7	0	41.04	-	-	-	-	68.2	-27.16	0-360	150	H
3	* 15.804	25.1	PK	40.4	-19.9	0	45.6	-	-	74	-28.4	-	-	0-360	150	H
5	* 17.789	23.9	PK	41.5	-17.5	0	47.9	-	-	74	-26.1	-	-	0-360	150	H
2	10.514	23.21	PK	37.7	-20.7	0	40.21	-	-	-	-	68.2	-27.99	0-360	250	V
4	* 15.795	24.98	PK	40.3	-19.9	0	45.38	-	-	74	-28.62	-	-	0-360	250	V
6	* 17.79	23.3	PK	41.5	-17.5	0	47.3	-	-	74	-26.7	-	-	0-360	150	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector