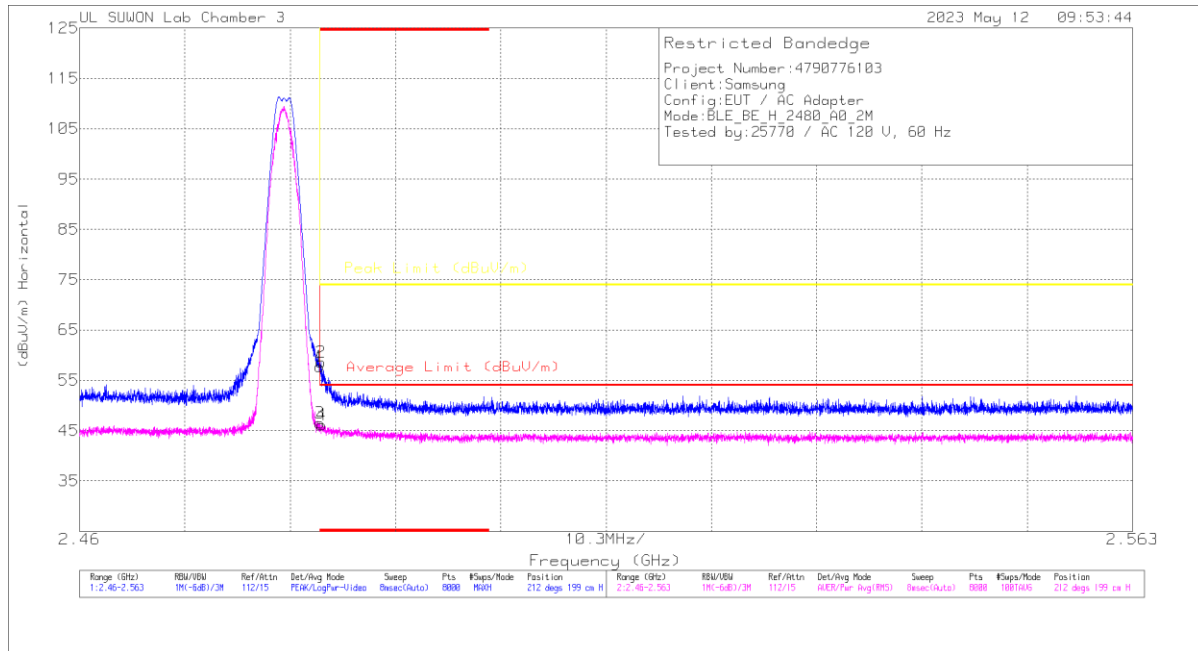


BANDEDGE (39 CHANNEL)

HORIZONTAL RESULT



Trace Markers

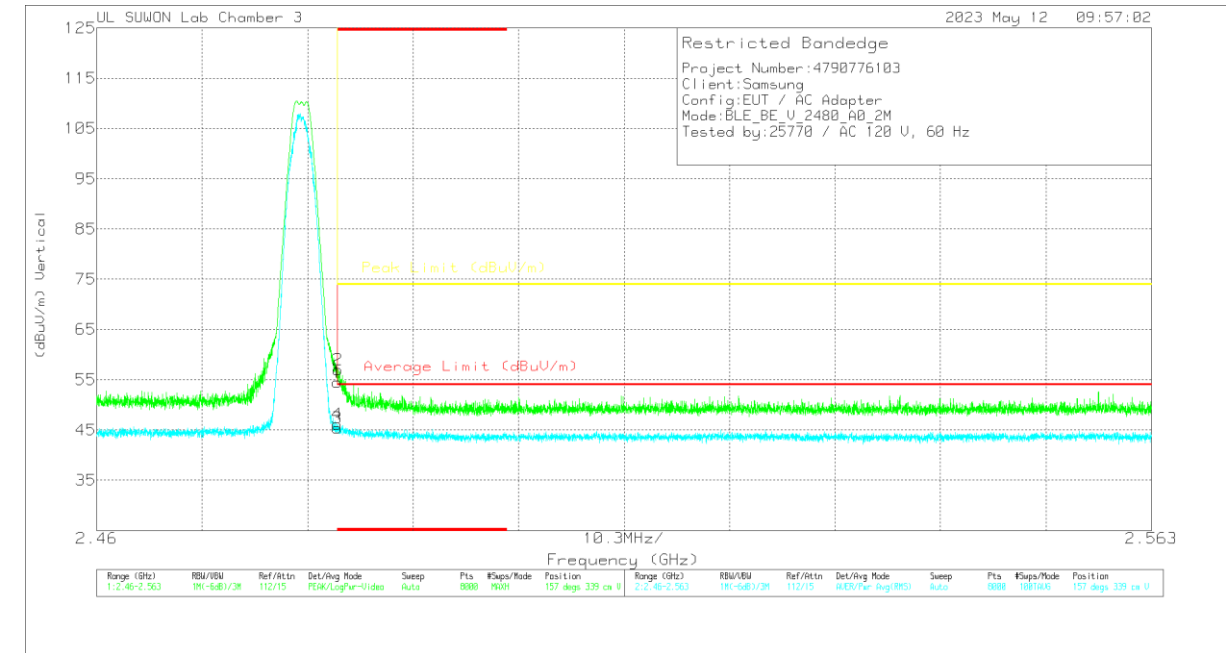
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	50.39	Pk	32.4	-25	0	57.79	-	-	74	-16.21	212	199	H
2	* 2.48359	51.17	Pk	32.4	-25	0	58.57	-	-	74	-15.43	212	199	H
3	* 2.4835	34.82	RMS	32.4	-25	4.28	46.5	54	-7.5	-	-	212	199	H
4	* 2.48366	34.41	RMS	32.4	-25	4.28	46.09	54	-7.01	-	-	212	199	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



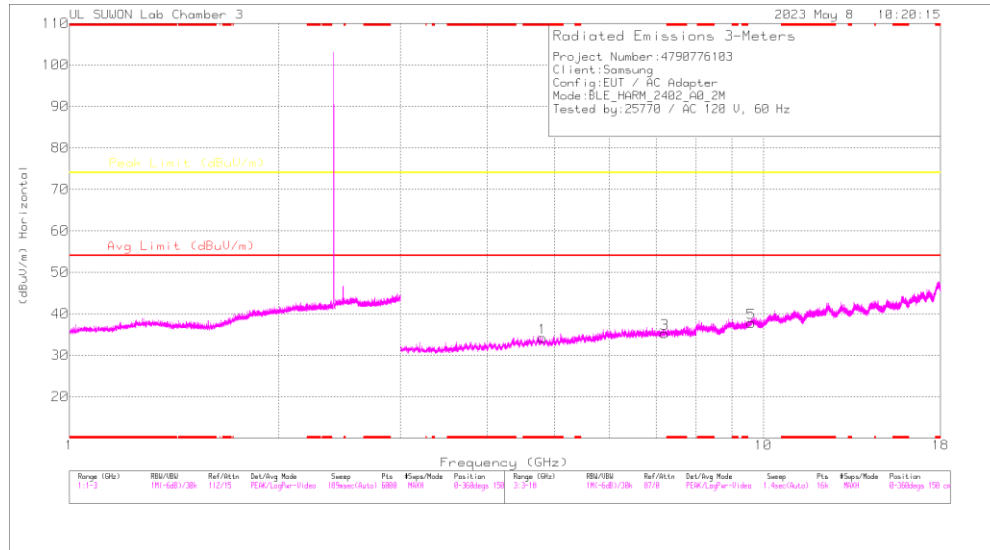
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT(dB)	DC Cor (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	47.1	PK	32.4	-25	0	54.5	-	-	74	-19.5	157	339	V
2	* 2.48354	49.57	PK	32.4	-25	0	56.97	-	-	74	-17.03	157	339	V
3	* 2.4835	33.71	RMS	32.4	-25	4.28	45.39	54	-8.61	-	-	157	339	V
4	* 2.48351	34.46	RMS	32.4	-25	4.28	46.14	54	-7.86	-	-	157	339	V

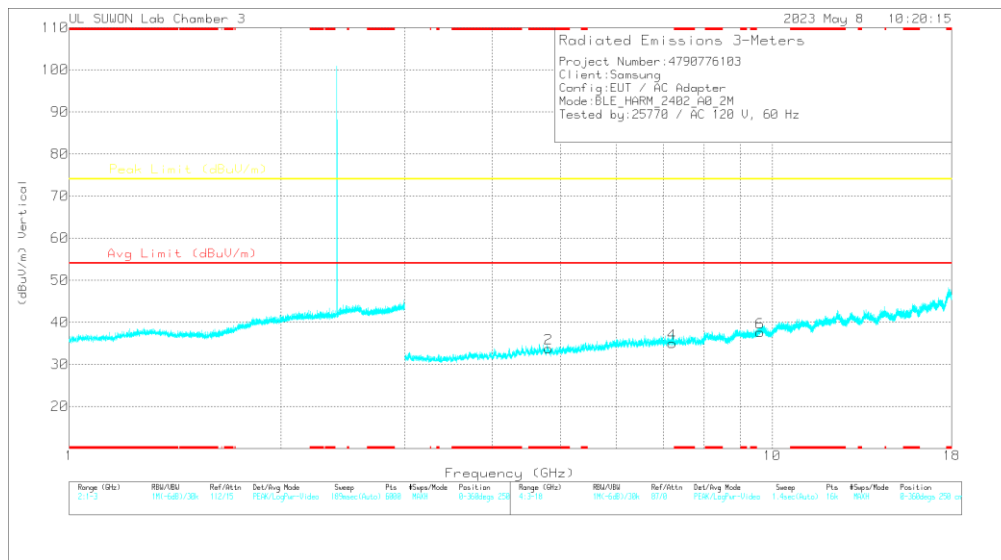
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

0 CHANNEL RESULTS



HORIZONTAL



VERTICAL

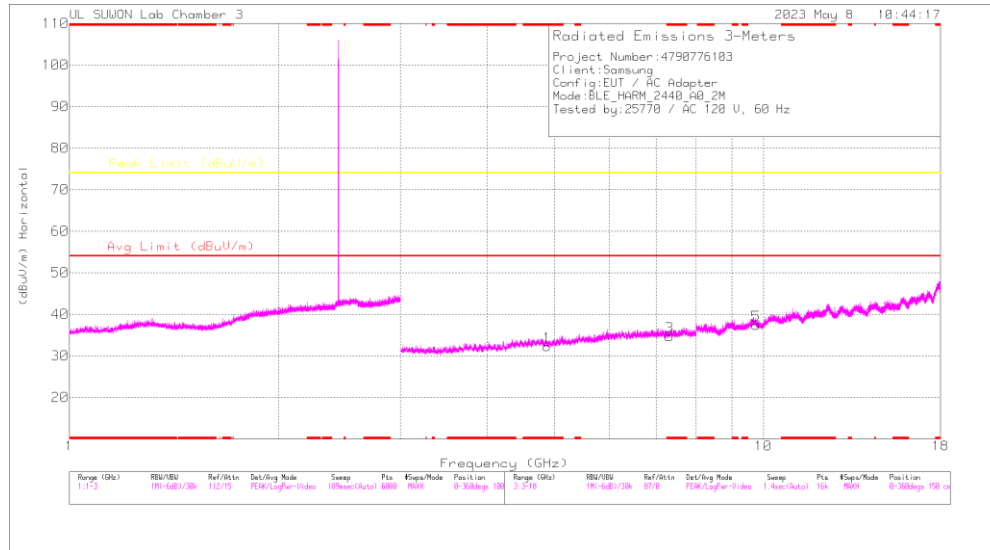
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

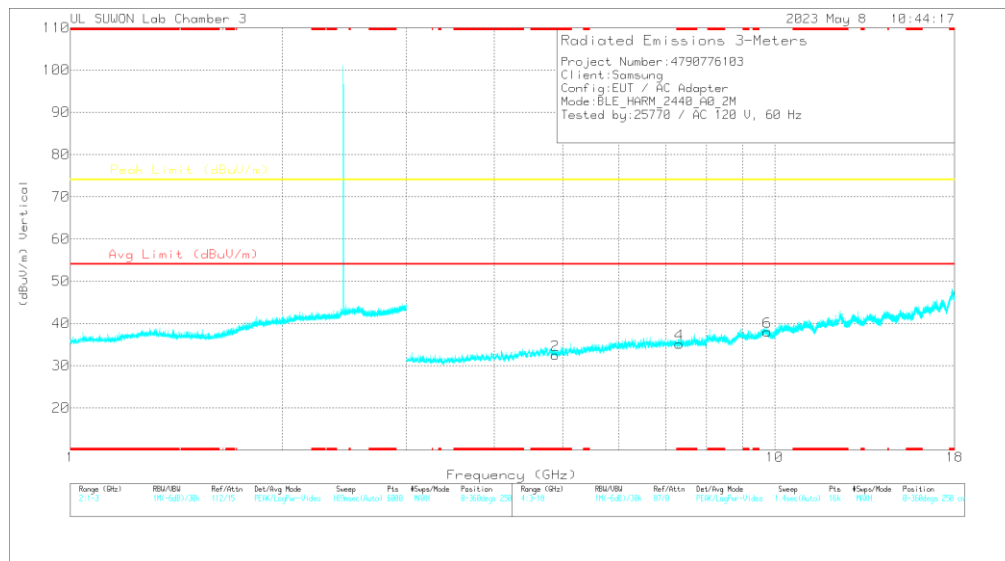
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.80376	39.67	PK2	34.3	-30.1	0	43.87	-	-	74	-30.13	0	100	H
* 4.80563	38.96	PK2	34.3	-30.1	0	43.16	-	-	74	-30.84	0	100	V
7.20776	35.59	PK2	35.8	-25.8	0	45.59	-	-	74	-28.41	0	100	H
7.20585	35.52	PK2	35.8	-25.7	0	45.62	-	-	74	-28.38	0	100	V
9.60683	33.02	PK2	36.7	-21.6	0	48.12	-	-	74	-25.88	0	100	H
9.60876	32.82	PK2	36.7	-21.7	0	47.82	-	-	74	-26.18	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak

19 CHANNEL RESULTS



HORIZONTAL



VERTICAL

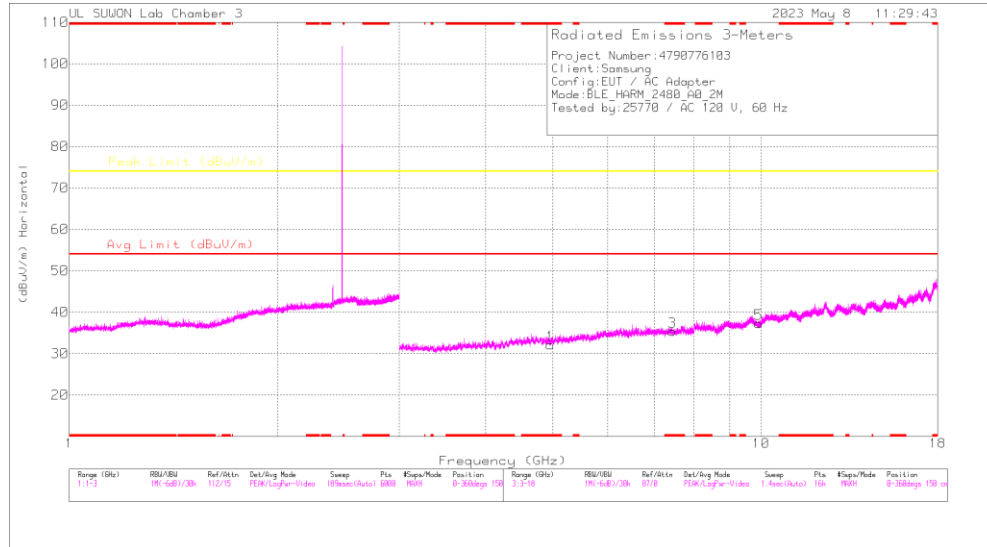
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

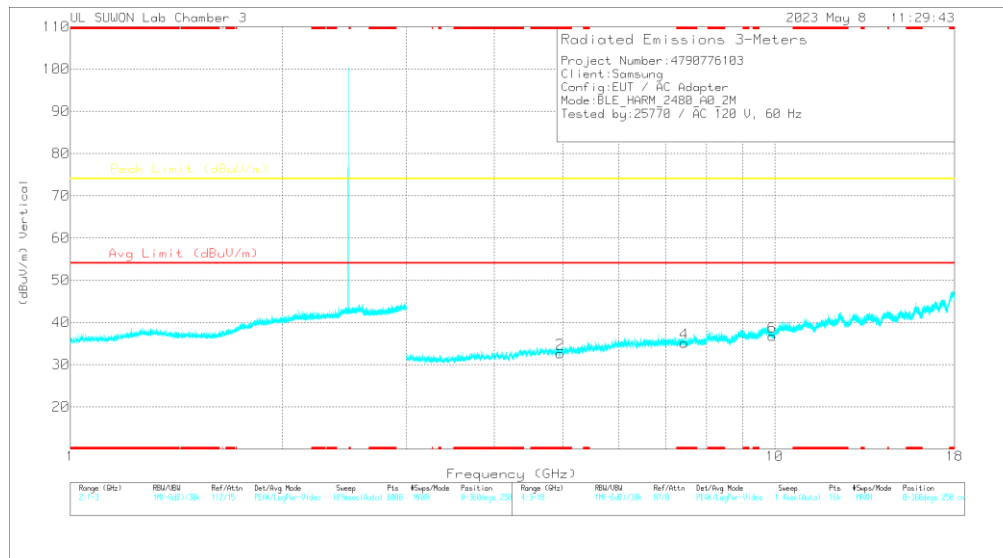
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.88	39.49	PK2	34.2	-30.9	0	42.79	-	-	74	-31.21	0	100	H
* 4.87847	39.39	PK2	34.2	-30.8	0	42.79	-	-	74	-31.21	0	100	V
* 7.31814	35.1	PK2	35.8	-25.4	0	45.5	-	-	74	-28.5	0	100	H
* 7.32007	35.07	PK2	35.8	-25.3	0	45.57	-	-	74	-28.43	0	100	V
9.76022	32.09	PK2	36.9	-21.2	0	47.79	-	-	74	-26.21	0	100	H
9.7609	31.86	PK2	36.9	-21.2	0	47.56	-	-	74	-26.44	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak

39 CHANNEL RESULTS



HORIZONTAL



VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

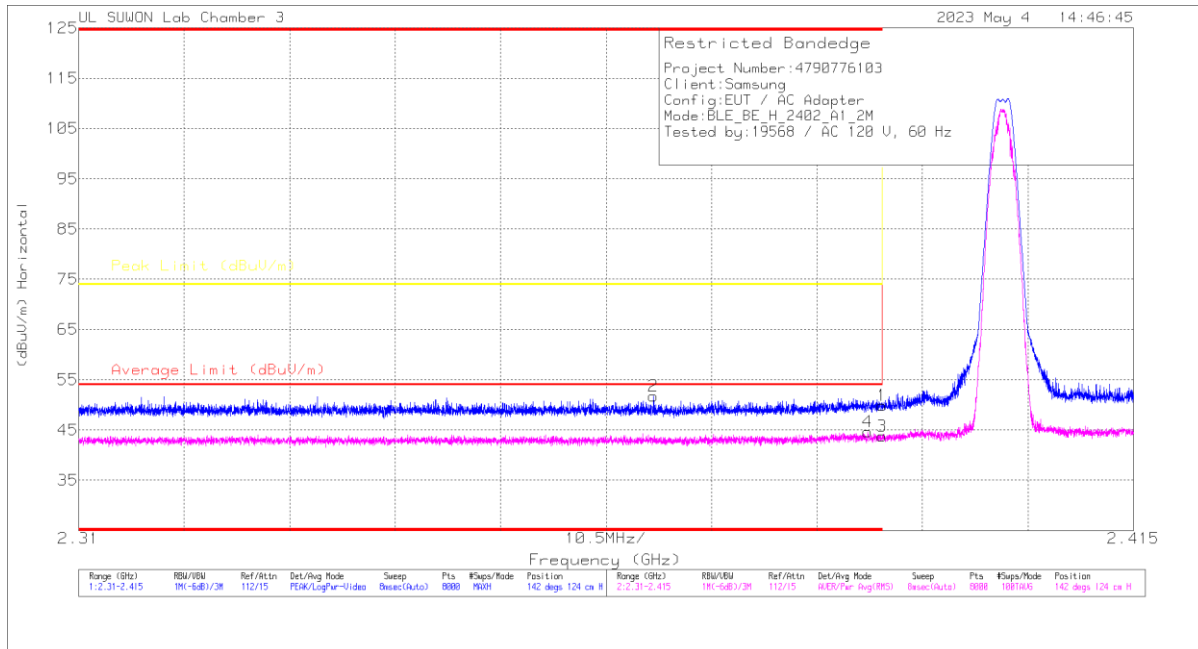
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.96116	39.65	PK2	34.3	-30.5	0	43.45	-	-	74	-30.55	0	100	H
* 4.96231	39.1	PK2	34.3	-30.6	0	42.8	-	-	74	-31.2	0	100	V
* 7.43879	35.32	PK2	35.7	-25.1	0	45.92	-	-	74	-28.08	0	100	H
* 7.44138	34.95	PK2	35.7	-25.1	0	45.55	-	-	74	-28.45	0	100	V
9.92277	31.69	PK2	37.1	-21.4	0	47.39	-	-	74	-26.61	0	100	H
9.92007	31.48	PK2	37.1	-21.4	0	47.18	-	-	74	-26.82	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak

10.2.4. 2 Mbps ANT2

BANDEDGE (0 CHANNEL)

HORIZONTAL RESULT



Trace Markers

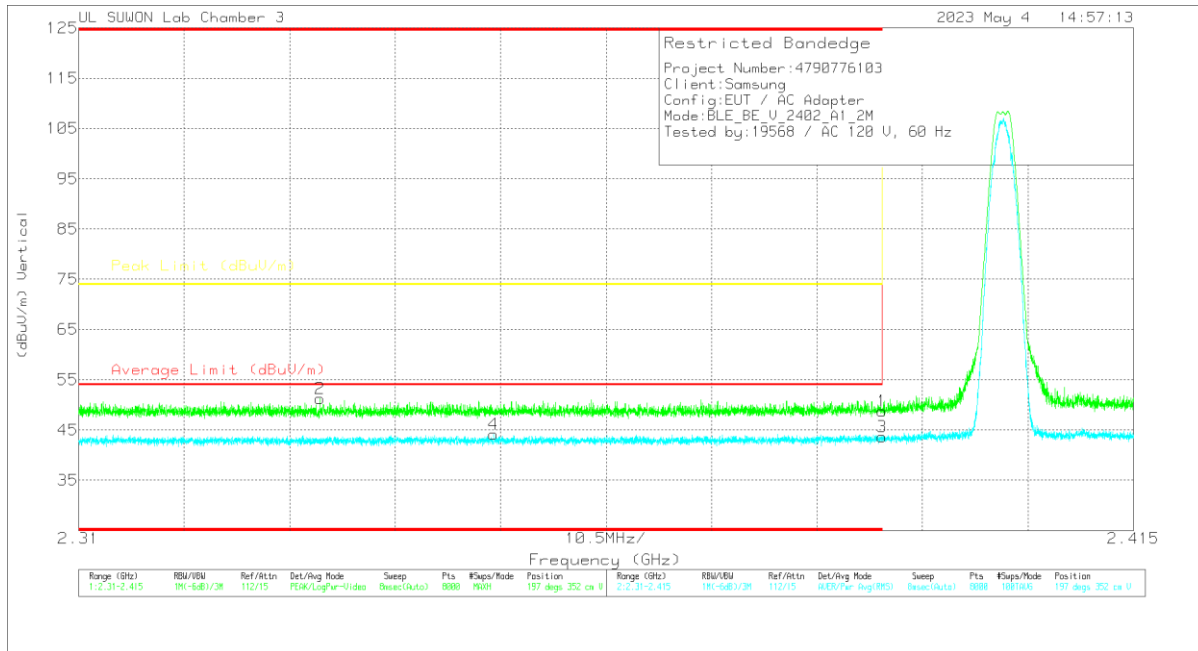
Marker	Frequency (GHz)	Meas Reading (dBuV)	Det	3117_00218957	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (m)	Height (m)	Polarity
1	* 2.39	42.83	PK	32.1	-25.1	0	49.83	-	-	74	-24.17	142	124	H
2	* 2.36722	44.94	PK	32	-25.2	0	51.74	-	-	74	-22.26	142	124	H
3	* 2.39	32.45	RMS	32.1	-25.1	4.28	43.73	54	-10.27	-	-	142	124	H
4	* 2.38857	33.33	RMS	32.1	-25.1	4.28	44.61	54	-9.39	-	-	142	124	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL RESULT



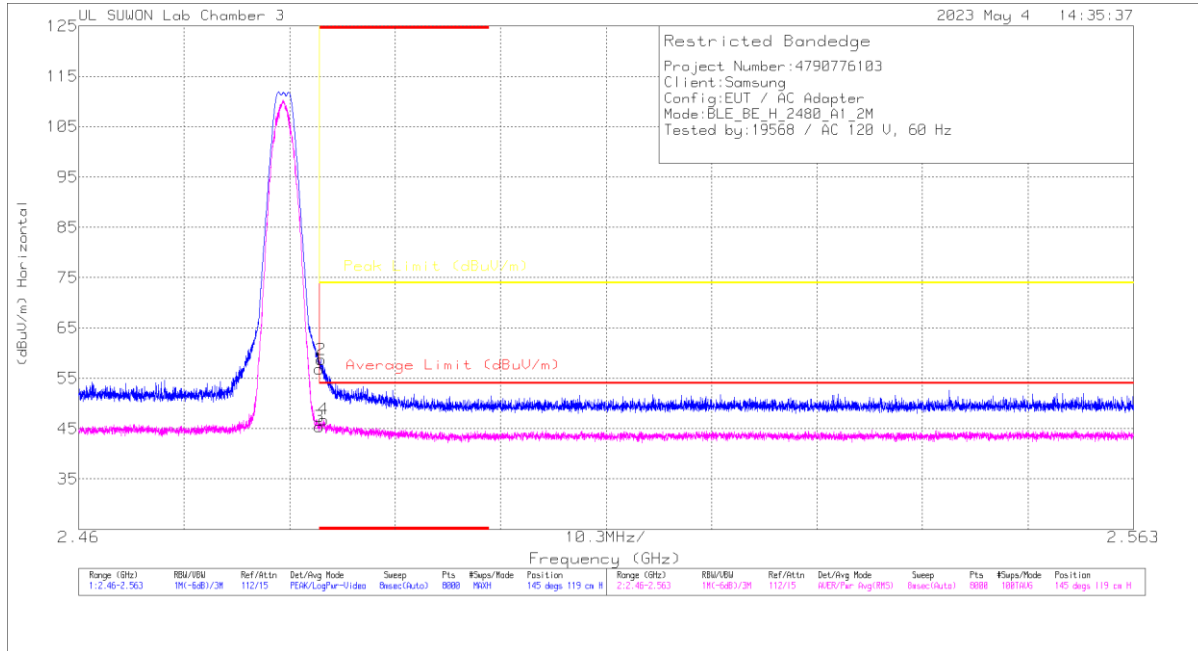
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT(dB)	DC Cor (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.39	41.81	PK	32.1	-25.1	0	48.81	-	-	74	-25.19	197	352	V
2	* 2.334	44.58	PK	31.9	-25.2	0	51.28	-	-	74	-22.72	197	352	V
3	* 2.39	32.33	RMS	32.1	-25.1	4.28	43.61	54	-10.39	-	-	197	352	V
4	* 2.35131	33.07	RMS	32	-25.2	4.28	44.15	54	-9.85	-	-	197	352	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK - Peak detector
RMS - RMS detection

BANDEDGE (39 CHANNEL)

HORIZONTAL RESULT

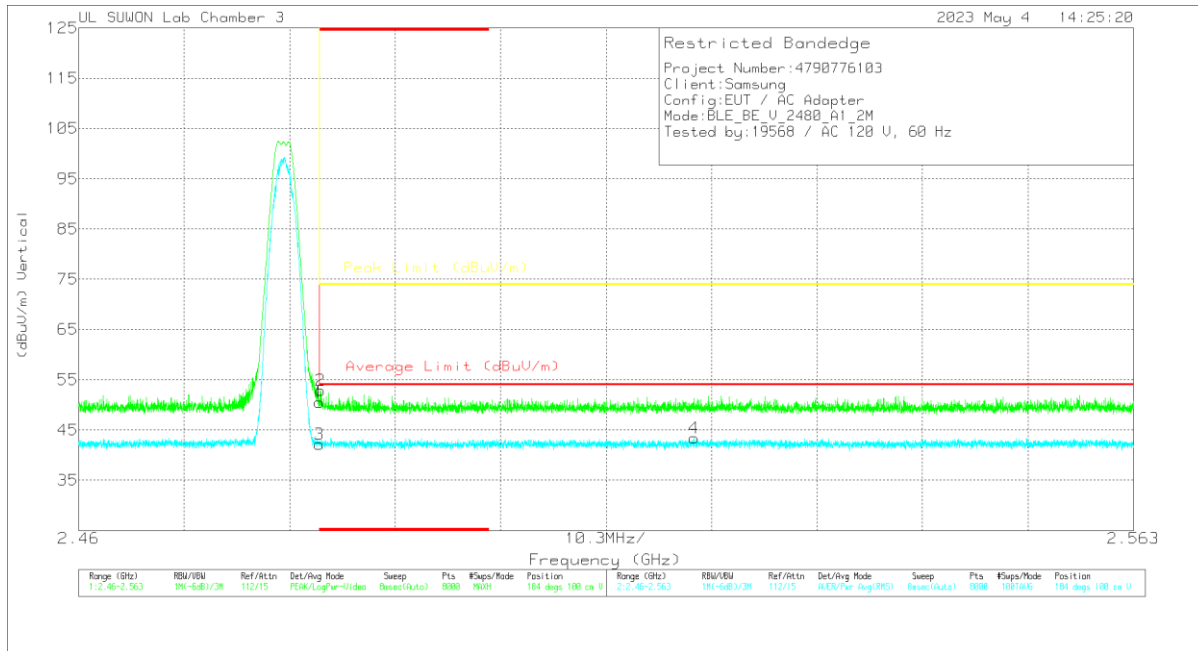


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (deg)	Height (cm)	Polarity
1	* 2.4835	49.44	PK	32.4	-25	0	56.84	-	-	74	-17.16	145	119	H
2	* 2.48367	51.32	PK	32.4	-25	0	58.72	-	-	74	-15.28	145	119	H
3	* 2.4835	33.66	RMS	32.4	-25	4.28	45.34	54	-8.66	-	-	145	119	H
4	* 2.48395	35.15	RMS	32.4	-25	4.28	46.83	54	-7.17	-	-	145	119	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK - Peak detector
RMS - RMS detection

VERTICAL RESULT



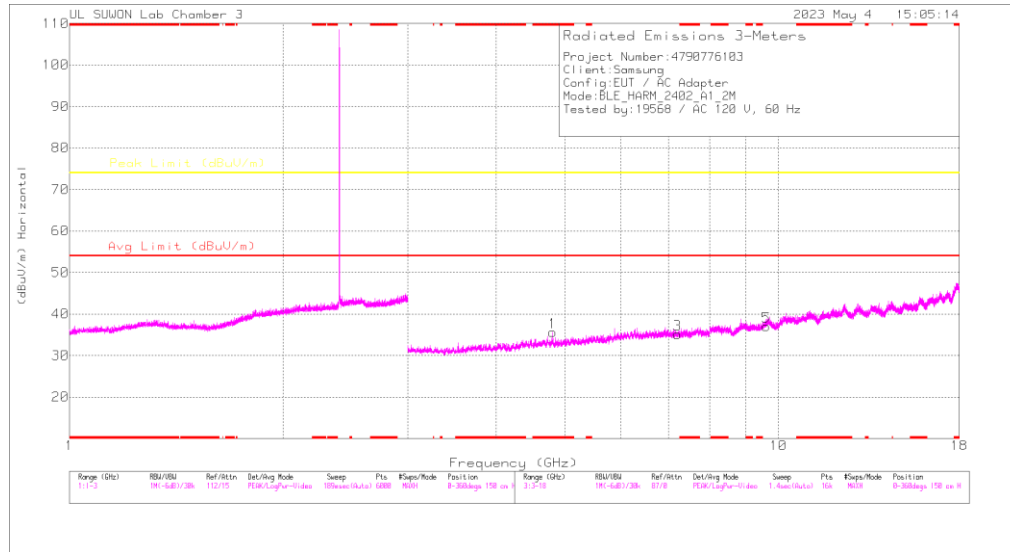
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT(dB)	DC Cor (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	43.05	PK		-25	0	50.45	-	-	74	-23.55	184	100	V
2	* 2.48359	45.52	PK		-25	0	52.92	-	-	74	-21.08	184	100	V
3	* 2.4835	30.53	RMS		-25	4.28	42.21	54	-11.79	-	-	184	100	V
4	2.52007	31.66	RMS		-24.9	4.28	43.44	54	-10.56	-	-	184	100	V

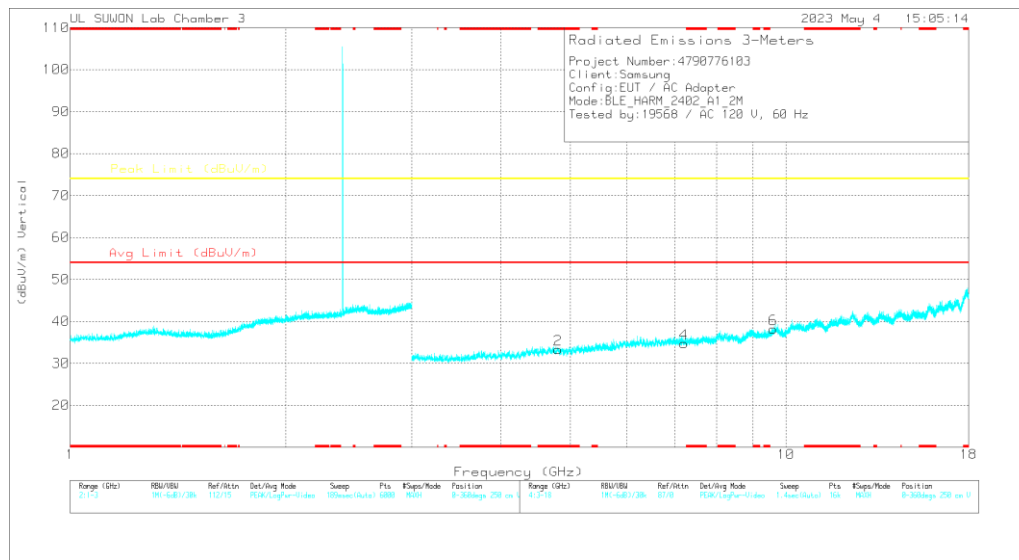
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

0 CHANNEL RESULTS



HORIZONTAL



VERTICAL

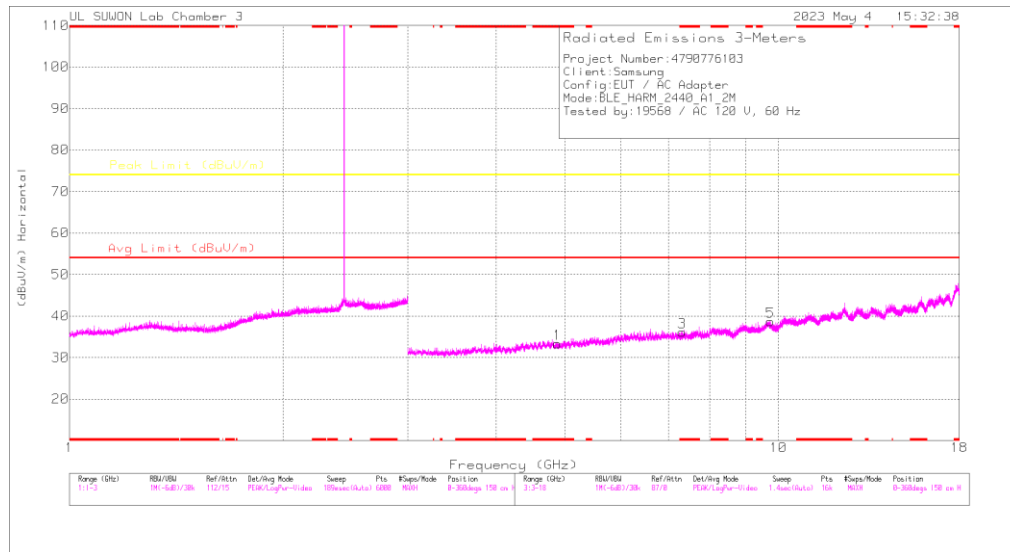
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

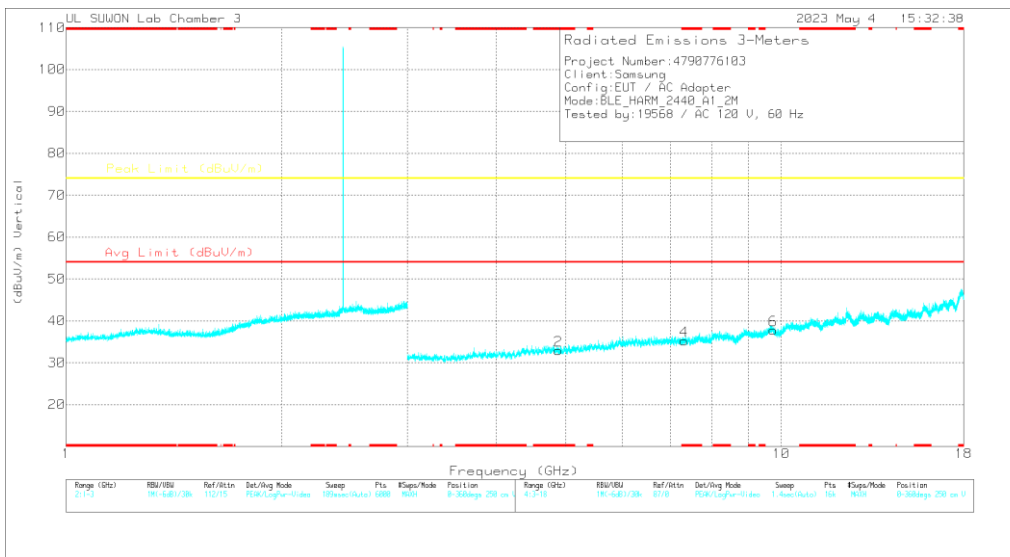
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.8048	38.73	PK2		34.3	-30.1	0	42.93	-	74	-31.07	0	100	H
* 4.8048	36.96	PK2		34.3	-30.1	0	41.16	-	74	-32.84	0	100	V
7.20589	33.33	PK2		35.8	-25.7	0	43.43	-	74	-30.57	0	100	H
7.20589	33.49	PK2		35.8	-25.7	0	43.59	-	74	-30.41	0	100	V
9.60885	31.16	PK2		36.7	-21.7	0	46.16	-	74	-27.84	0	100	H
9.60885	31.6	PK2		36.7	-21.7	0	46.6	-	74	-27.4	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak

19 CHANNEL RESULTS



HORIZONTAL



VERTICAL

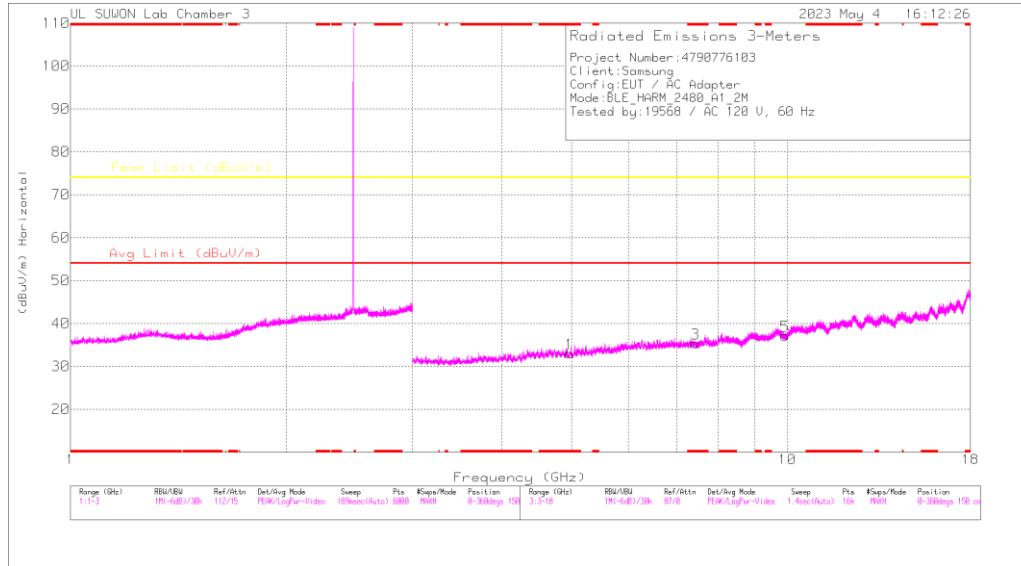
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

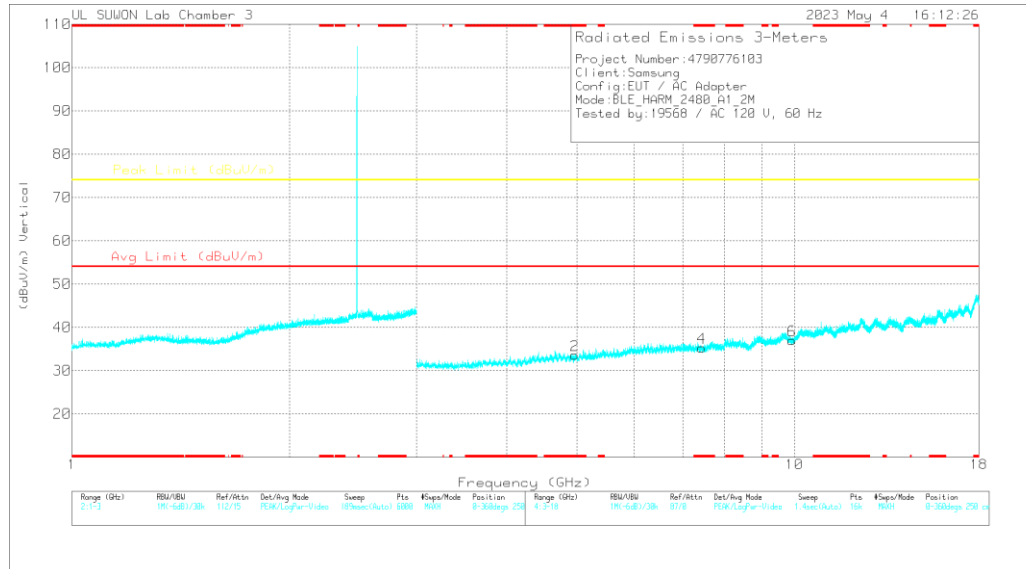
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degrees)	Height (cm)	Polarity
* 4.87903	40.22	PK2	34.2	-30.8	0	43.62	-	-	74	-30.38	360	100	H
* 4.87873	39.84	PK2	34.2	-30.8	0	43.24	-	-	74	-30.76	360	100	V
* 7.32415	34.78	PK2	35.8	-25.3	0	45.28	-	-	74	-28.72	360	100	H
* 7.32417	34.44	PK2	35.8	-25.3	0	44.94	-	-	74	-29.06	360	100	V
9.75398	31.94	PK2	36.9	-21.2	0	47.64	-	-	74	-26.36	360	100	H
9.75809	32.2	PK2	36.9	-21.1	0	48	-	-	74	-26	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak

39 CHANNEL RESULTS



HORIZONTAL



VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

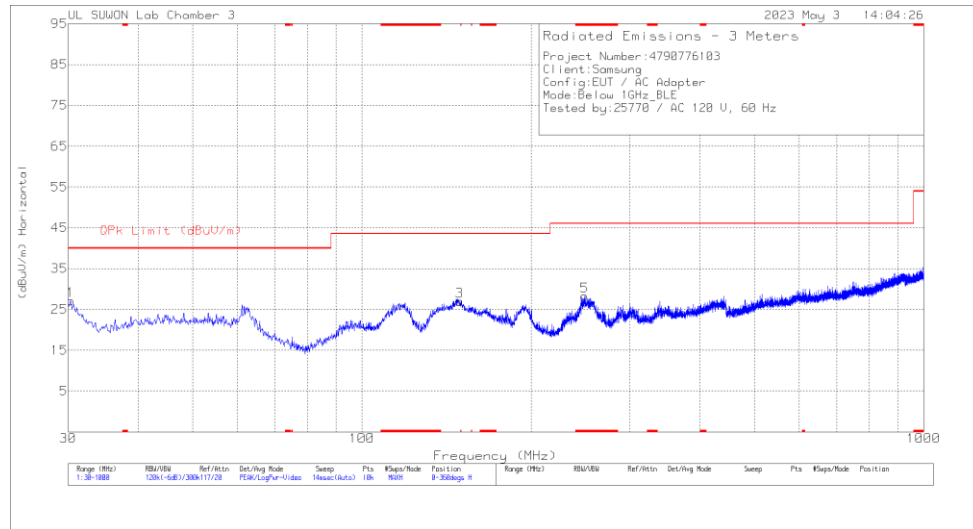
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	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
* 4.9688	39.32	PK2	34.3	-30.4	0	43.22	-	-	74	-30.78	0	100	H
* 4.96507	39.26	PK2	34.3	-30.5	0	43.06	-	-	74	-30.94	0	100	V
* 7.44233	35.04	PK2	35.7	-25.1	0	45.64	-	-	74	-28.36	0	100	H
* 7.44233	34.63	PK2	35.7	-25.1	0	45.23	-	-	74	-28.77	0	100	V
9.92469	31.3	PK2	37.1	-21.4	0	47	-	-	74	-27	0	100	H
9.92479	31.78	PK2	37.1	-21.4	0	47.48	-	-	74	-26.52	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak

10.3. WORST CASE BELOW 1 GHZ

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



HORIZONTAL



VERTICAL

Below 1GHz Data Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
30.194	48.46	Qp	15.8	-32	2.93	35.19	40	-4.81	359	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Qp - Quasi-Peak detector

11. 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.

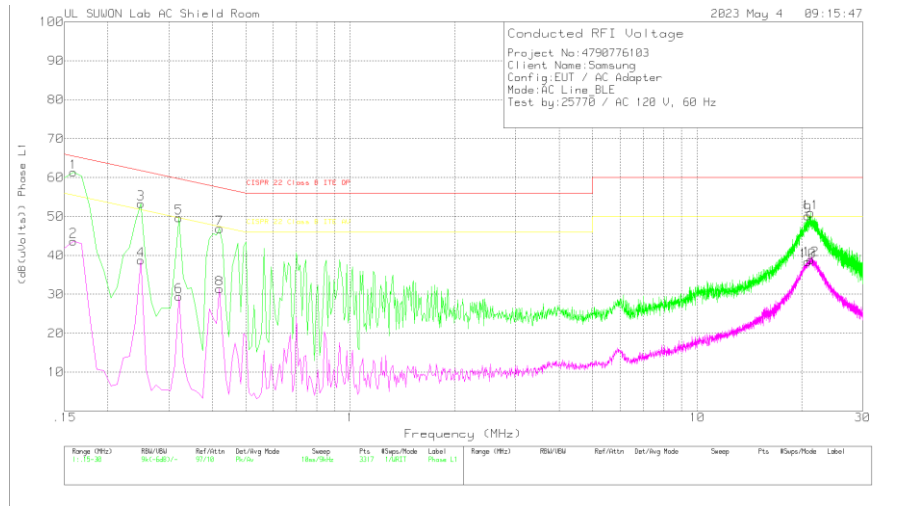
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

11.1. AC Power Line

LINE 1 RESULTS



Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_L1[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CISPR 22 Class B ITE QP	Margin (dB)	CISPR 22 Class B ITE AV	Margin (dB)
1	.159	51.43	Pk	9.8	.1	61.33	65.52	-4.19	-	-
2	.159	33.75	Av	9.8	.1	43.65	-	-	55.52	-11.87
3	.249	43.5	Pk	9.6	.2	53.3	61.79	-8.49	-	-
4	.249	28.96	Av	9.6	.2	38.76	-	-	51.79	-13.03
5	.321	39.76	Pk	9.7	.2	49.66	59.68	-10.02	-	-
6	.321	19.59	Av	9.7	.2	29.49	-	-	49.68	-20.19
7	.42	36.88	Pk	9.8	.2	46.88	57.45	-10.57	-	-
8	.42	21.38	Av	9.8	.2	31.38	-	-	47.45	-16.07
9	20.832	39.48	Pk	10.2	.4	50.08	60	-9.92	-	-
10	20.832	27.83	Av	10.2	.4	38.43	-	-	50	-11.57
11	21.228	40.32	Pk	10.2	.4	50.92	60	-9.08	-	-
12	21.246	28.31	Av	10.2	.4	38.91	-	-	50	-11.09

Pk - Peak detector

Av - Average detection

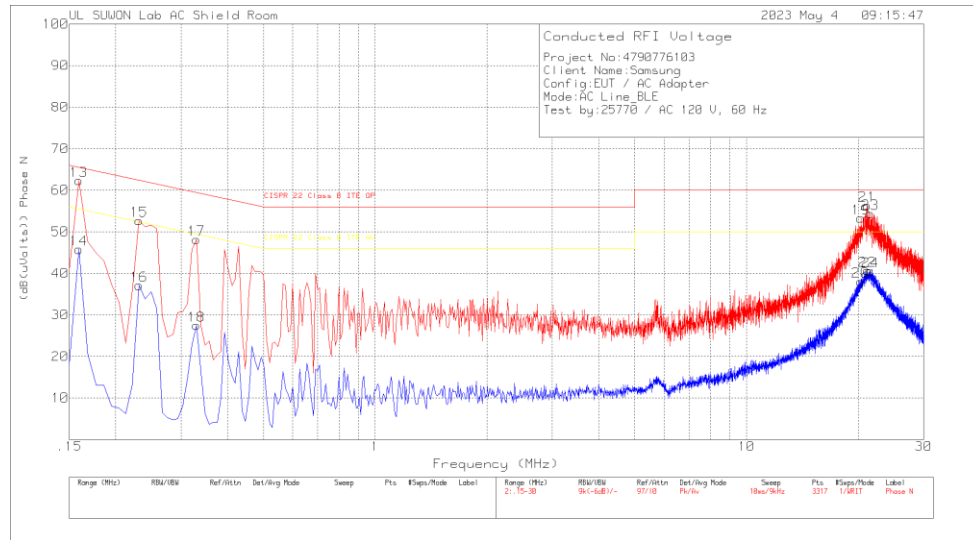
Quasi-Peak Emissions

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_L1[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CISPR 22 Class B ITE QP	Margin (dB)	CISPR 22 Class B ITE AV	Margin (dB)
.15675	46.08	Qp	9.8	.1	55.98	65.63	-9.65	-	-
.24675	34.46	Qp	9.6	.2	44.26	61.87	-17.61	-	-
20.8334	33.88	Qp	10.2	.4	44.48	60	-15.52	-	-
21.2285	33.9	Qp	10.2	.4	44.5	60	-15.5	-	-

Qp - Quasi-Peak detector

LINE 2 RESULTS



Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_N[dB]	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	52.41	Pk	9.8	.1	62.31	65.52	-3.21	-	-
14	.159	35.88	Av	9.8	.1	45.78	-	-	55.52	-9.74
15	.231	42.82	Pk	9.7	.2	52.72	62.41	-9.69	-	-
16	.231	27.21	Av	9.7	.2	37.11	-	-	52.41	-15.3
17	.33	38.16	Pk	9.8	.2	48.16	59.45	-11.29	-	-
18	.33	17.48	Av	9.8	.2	27.48	-	-	49.45	-21.97
19	20.31	42.58	Pk	10.3	.4	53.28	60	-6.72	-	-
20	20.283	27.35	Av	10.3	.4	38.05	-	-	50	-11.95
21	21.147	45.67	Pk	10.3	.4	56.37	60	-3.63	-	-
22	21.156	29.97	Av	10.3	.4	40.67	-	-	50	-9.33
23	21.516	43.69	Pk	10.3	.4	54.39	60	-5.61	-	-
24	21.525	29.83	Av	10.3	.4	40.53	-	-	50	-9.47

Pk - Peak detector

Av - Average detection

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_N[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CISPR 22 Class B ITE QP	Margin (dB)	CISPR 22 Class B ITE AV	Margin (dB)
.15675	44.59	Qp	9.8	.1	54.49	65.63	-11.14	-	-
.23235	34.06	Qp	9.7	.2	43.96	62.37	-18.41	-	-
20.3096	36.21	Qp	10.3	.4	46.91	60	-13.09	-	-
20.2826	36.09	Qp	10.3	.4	46.79	60	-13.21	-	-
21.1484	36.8	Qp	10.3	.4	47.5	60	-12.5	-	-
21.1556	36.67	Qp	10.3	.4	47.37	60	-12.63	-	-
21.5165	36.4	Qp	10.3	.4	47.1	60	-12.9	-	-
21.5246	36.32	Qp	10.3	.4	47.02	60	-12.98	-	-

Qp - Quasi-Peak detector

END OF TEST REPORT