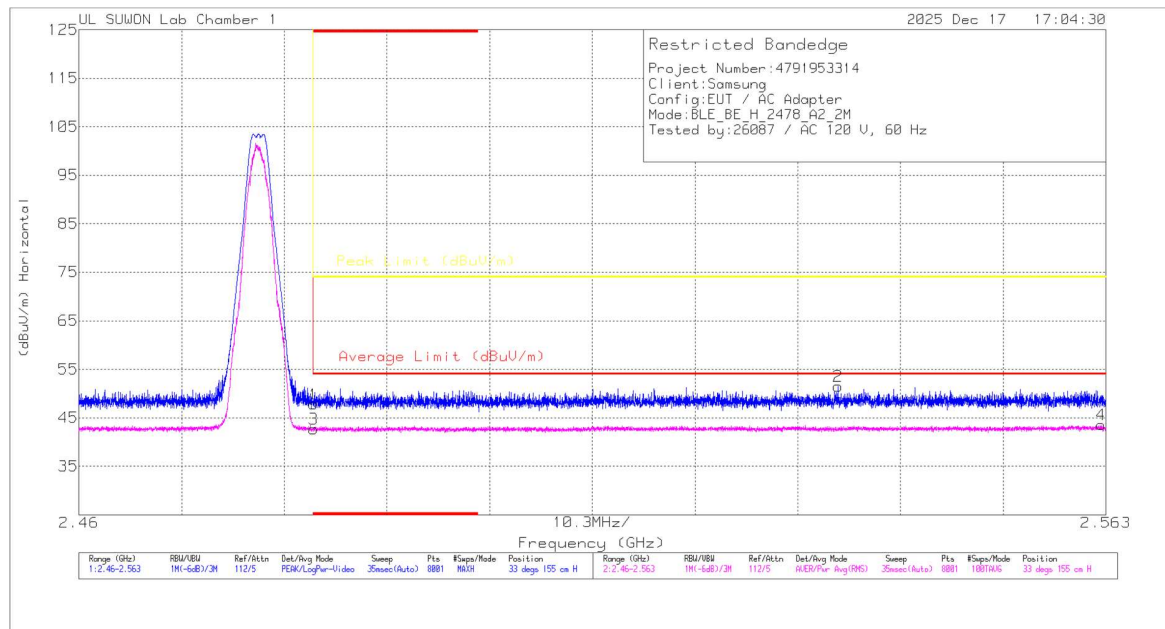


10.2.2. TX ABOVE 1 GHz BLUETOOTH LE 2 Mbps

BANDEDGE (WORST CASE: 2478 MHz, ANT2)

HORIZONTAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meas Reading (dBuV)	Det	Antenna_Factor (dBm)	10dB_Pain Loss(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	* 2.48351	42	PK	32	-26.2	0	47.8	-	-	74	-26.2	33	155	H
2	2.53614	45.64	PK	32	-26.1	0	51.54	-	-	74	-22.46	33	155	H
3	* 2.48351	32.8	RMS	32	-26.2	4.12	42.72	54	-11.28	-	-	33	155	H
4	2.56254	33.33	RMS	32.1	-26	4.12	43.55	54	-10.45	-	-	33	155	H

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

PK - Peak detector

RMS - RMS detection

BANDEDGE TEST DATA

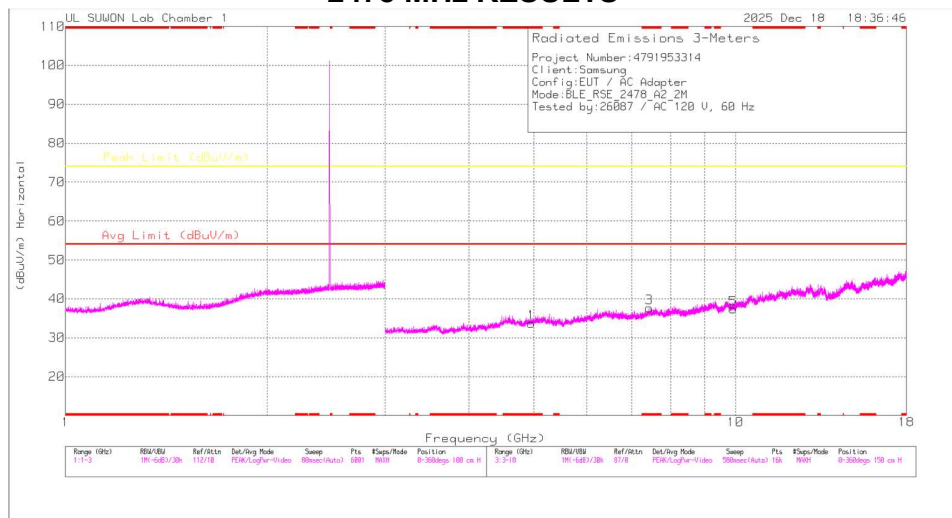
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2404	ANT1	* 2.39	41.67	Pk	31.70	-26.20	0.00	47.17	-	-	74.00	-26.83	124	171	H
		* 2.3827	45.55	Pk	31.70	-26.20	0.00	51.05	-	-	74.00	-22.95	124	171	H
		* 2.39	33.07	RMS	31.70	-26.20	4.12	42.69	54.00	-11.31	-	-	124	171	H
		* 2.38448	33.46	RMS	31.70	-26.20	4.12	43.08	54.00	-10.92	-	-	124	171	H
		* 2.39	42.53	Pk	31.70	-26.20	0.00	48.03	-	-	74.00	-25.97	95	118	V
		* 2.3181	46.33	Pk	31.60	-26.40	0.00	51.53	-	-	74.00	-22.47	95	118	V
		* 2.39	28.79	RMS	31.70	-26.20	4.12	38.41	54.00	-15.59	-	-	95	118	V
		* 2.37216	29.27	RMS	31.70	-26.10	4.12	38.99	54.00	-15.01	-	-	95	118	V
2478	ANT1	* 2.48351	42.79	Pk	32.00	-26.20	0.00	48.59	-	-	74.00	-25.41	159	100	H
		2.561	45.54	Pk	32.10	-25.90	0.00	51.74	-	-	74.00	-22.26	159	100	H
		* 2.48351	33.04	RMS	32.00	-26.20	4.12	42.96	54.00	-11.04	-	-	159	100	H
		2.514	33.42	RMS	32.00	-26.00	4.12	43.54	54.00	-10.46	-	-	159	100	H
		* 2.48351	42.81	Pk	32.00	-26.20	0.00	48.61	-	-	74.00	-25.39	96	107	V
		2.514	45.94	Pk	32.00	-26.00	0.00	51.94	-	-	74.00	-22.06	96	107	V
		* 2.48351	32.81	RMS	32.00	-26.20	4.12	42.73	54.00	-11.27	-	-	96	107	V
		2.557	33.21	RMS	32.10	-26.00	4.12	43.43	54.00	-10.57	-	-	96	107	V
2404	ANT2	* 2.39	42.55	Pk	31.70	-26.20	0.00	48.05	-	-	74.00	-25.95	43	118	H
		* 2.35161	45.79	Pk	31.60	-26.30	0.00	51.09	-	-	74.00	-22.91	43	118	H
		* 2.39	33.11	RMS	31.70	-26.20	4.12	42.73	54.00	-11.27	-	-	43	118	H
		* 2.38954	33.40	RMS	31.70	-26.20	4.12	43.02	54.00	-10.98	-	-	43	118	H
		* 2.39	42.89	Pk	31.70	-26.20	0.00	48.39	-	-	74.00	-25.61	191	100	V
		* 2.34298	45.82	Pk	31.60	-26.30	0.00	51.12	-	-	74.00	-22.88	191	100	V
		* 2.39	32.76	RMS	31.70	-26.20	4.12	42.38	54.00	-11.62	-	-	191	100	V
		* 2.38401	33.39	RMS	31.70	-26.20	4.12	43.01	54.00	-10.99	-	-	191	100	V
2478	ANT2	* 2.48351	42.00	Pk	32.00	-26.20	0.00	47.80	-	-	74.00	-26.20	33	155	H
		2.536	45.64	Pk	32.00	-26.10	0.00	51.54	-	-	74.00	-22.46	33	155	H
		* 2.48351	32.80	RMS	32.00	-26.20	4.12	42.72	54.00	-11.28	-	-	33	155	H
		2.563	33.33	RMS	32.10	-26.00	4.12	43.55	54.00	-10.45	-	-	33	155	H
		* 2.48351	43.72	Pk	32.00	-26.20	0.00	49.52	-	-	74.00	-24.48	1	102	V
		* 2.49672	45.90	Pk	32.00	-26.20	0.00	51.70	-	-	74.00	-22.30	1	102	V
		* 2.48351	33.29	RMS	32.00	-26.20	4.12	43.21	54.00	-10.79	-	-	1	102	V
		2.514	33.38	RMS	32.00	-26.00	4.12	43.50	54.00	-10.50	-	-	1	102	V

Note1. Pk - Peak detector, RMS - RMS detector

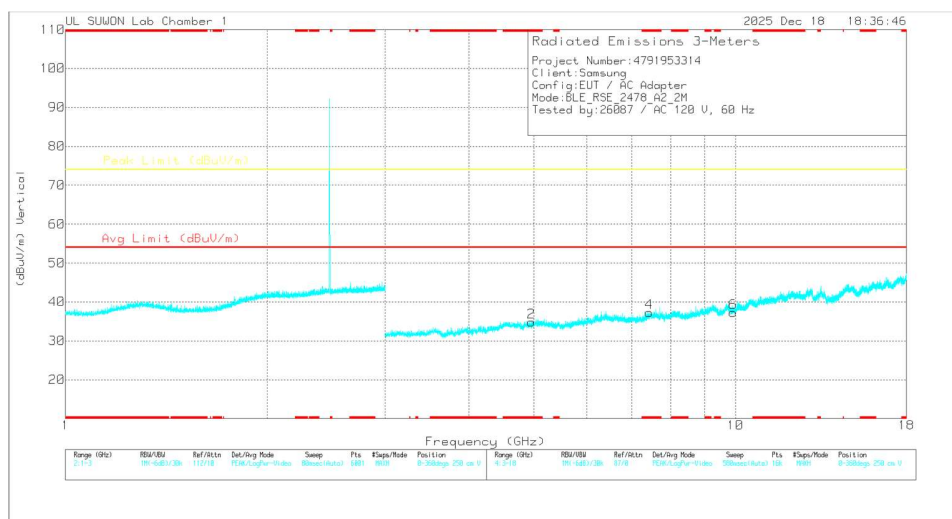
Note2. * - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE: 2478 MHz, ANT2)

2478 MHz 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	Antenna Factor (dB/m)	3GHz_HP_Pat h Loss(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
* 4.95824	42.45	PK2	34.2	-32.9	0	43.75	-	-	74	-30.25	360	100	H
* 4.9553	42.35	PK2	34.2	-33	0	43.55	-	-	74	-30.45	0	100	V
* 7.43539	41.46	PK2	35.6	-30.4	0	46.66	-	-	74	-27.34	223	100	H
* 7.43276	29.41	MAV1	35.6	-30.3	4.12	38.83	54	-15.17	-	-	223	100	H
* 7.43524	41.1	PK2	35.6	-30.3	0	46.4	-	-	74	-27.6	184	113	V
* 7.43268	29.03	MAV1	35.6	-30.3	4.12	38.45	54	-15.55	-	-	184	113	V
9.9117	37.49	PK2	37.4	-27.1	0	47.79	-	-	74	-26.21	360	100	H
9.90989	37.27	PK2	37.4	-27.1	0	47.57	-	-	74	-26.43	0	100	V

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

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

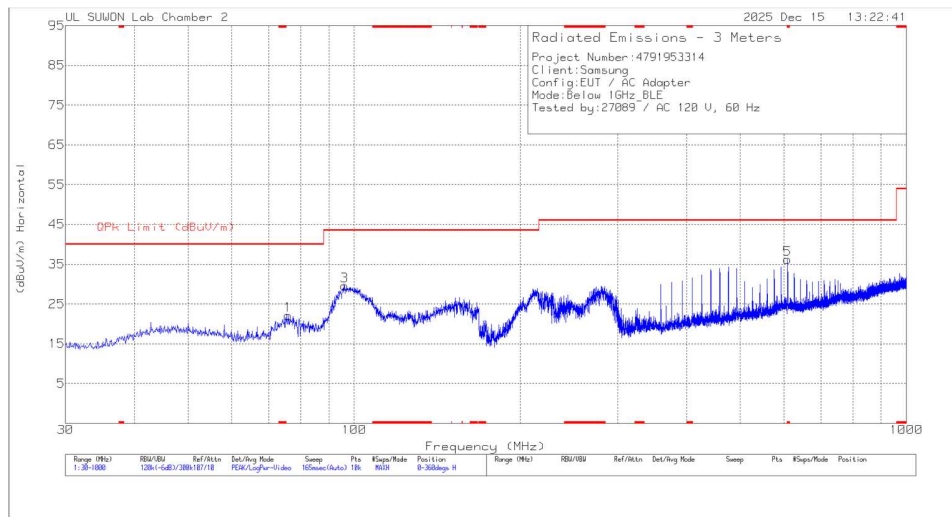
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2404	ANT1	* 4.80343	42.25	PK2	34.20	-33.00	0.00	43.45	-	-	74.00	-30.55	71	116	H
		* 4.80161	30.18	MAv1	34.20	-33.00	4.12	35.50	54.00	-18.50	-	-	71	116	H
		* 4.80682	42.02	PK2	34.20	-32.90	0.00	43.32	-	-	74.00	-30.68	0	100	V
		7.210	40.54	PK2	35.50	-30.90	0.00	45.14	-	-	74.00	-28.86	0	100	H
		7.211	41.10	PK2	35.60	-30.90	0.00	45.80	-	-	74.00	-28.20	0	100	V
		9.616	37.23	PK2	37.00	-27.00	0.00	47.23	-	-	74.00	-26.77	0	100	H
2440	ANT1	9.614	37.20	PK2	37.00	-27.00	0.00	47.20	-	-	74.00	-26.80	0	100	V
		* 4.87933	42.41	PK2	34.20	-33.00	0.00	43.61	-	-	74.00	-30.39	57	114	H
		* 4.87961	30.25	MAv1	34.20	-33.00	4.12	35.57	54.00	-18.43	-	-	57	114	H
		* 4.87905	42.41	PK2	34.20	-33.00	0.00	43.61	-	-	74.00	-30.39	64	322	V
		* 4.87945	30.21	MAv1	34.20	-33.00	4.12	35.53	54.00	-18.47	-	-	64	322	V
		* 7.31847	40.27	PK2	35.50	-30.80	0.00	44.97	-	-	74.00	-29.03	0	100	H
		* 7.31846	40.94	PK2	35.50	-30.80	0.00	45.64	-	-	74.00	-28.36	0	100	V
		9.762	36.51	PK2	37.20	-26.40	0.00	47.31	-	-	74.00	-26.69	0	100	H
2478	ANT1	9.762	37.40	PK2	37.20	-26.50	0.00	48.10	-	-	74.00	-25.90	0	100	V
		* 4.95423	42.20	PK2	34.20	-32.90	0.00	43.50	-	-	74.00	-30.50	262	193	H
		* 4.95633	30.21	MAv1	34.20	-33.00	4.12	35.53	54.00	-18.47	-	-	262	193	H
		* 4.95406	42.07	PK2	34.20	-32.90	0.00	43.37	-	-	74.00	-30.63	54	169	V
		* 4.95301	30.15	MAv1	34.20	-32.90	4.12	35.57	54.00	-18.43	-	-	54	169	V
		* 4.93576	40.18	PK2	35.60	-30.40	0.00	45.38	-	-	74.00	-28.62	0	100	H
		* 7.43551	40.16	PK2	35.60	-30.40	0.00	45.36	-	-	74.00	-28.64	0	100	V
		9.910	37.78	PK2	37.40	-27.10	0.00	48.08	-	-	74.00	-25.92	0	100	H
2404	ANT2	9.912	37.91	PK2	37.40	-27.10	0.00	48.21	-	-	74.00	-25.79	0	100	V
		* 4.80729	42.37	PK2	34.20	-32.90	0.00	43.67	-	-	74.00	-30.33	0	100	H
		* 4.80796	43.03	PK2	34.20	-33.00	0.00	44.23	-	-	74.00	-29.77	0	100	V
		7.211	40.83	PK2	35.60	-30.90	0.00	45.53	-	-	74.00	-28.47	96	130	H
		7.213	41.48	PK2	35.60	-30.90	0.00	46.18	-	-	74.00	-27.82	207	101	V
		9.616	37.03	PK2	37.00	-27.00	0.00	47.03	-	-	74.00	-26.97	0	100	H
2440	ANT2	9.617	36.80	PK2	37.00	-27.00	0.00	46.80	-	-	74.00	-27.20	0	100	V
		* 4.88103	42.68	PK2	34.20	-33.00	0.00	43.88	-	-	74.00	-30.12	0	100	H
		* 4.88159	42.45	PK2	34.20	-33.00	0.00	43.65	-	-	74.00	-30.35	360	101	V
		* 7.32184	41.35	PK2	35.50	-30.70	0.00	46.15	-	-	74.00	-27.85	248	382	H
		* 7.32103	28.98	MAv1	35.50	-30.70	4.12	37.90	54.00	-16.10	-	-	248	382	H
		* 7.32128	41.06	PK2	35.50	-30.70	0.00	45.86	-	-	74.00	-28.14	196	117	V
		* 7.32149	28.85	MAv1	35.50	-30.70	4.12	37.77	54.00	-16.23	-	-	196	117	V
		9.762	36.56	PK2	37.20	-26.50	0.00	47.26	-	-	74.00	-26.74	0	100	H
2478	ANT2	9.761	36.99	PK2	37.20	-26.40	0.00	47.79	-	-	74.00	-26.21	360	101	V
		* 4.95824	42.45	PK2	34.20	-32.90	0.00	43.75	-	-	74.00	-30.25	360	100	H
		* 4.9553	42.35	PK2	34.20	-33.00	0.00	43.55	-	-	74.00	-30.45	0	100	V
		* 7.43539	41.46	PK2	35.60	-30.40	0.00	46.66	-	-	74.00	-27.34	223	100	H
		* 7.43276	29.41	MAv1	35.60	-30.30	4.12	38.83	54.00	-15.17	-	-	223	100	H
		* 7.43524	41.10	PK2	35.60	-30.30	0.00	46.40	-	-	74.00	-27.60	184	113	V
		* 7.43268	29.03	MAv1	35.60	-30.30	4.12	38.45	54.00	-15.55	-	-	184	113	V
		9.912	37.49	PK2	37.40	-27.10	0.00	47.79	-	-	74.00	-26.21	360	100	H
2478	ANT2	9.910	37.27	PK2	37.40	-27.10	0.00	47.57	-	-	74.00	-26.43	0	100	V

Note1. PK2 - KDB558074 Method: Maximum Peak / MAv1 - KDB558074 Option 1 Maximum RMS Average

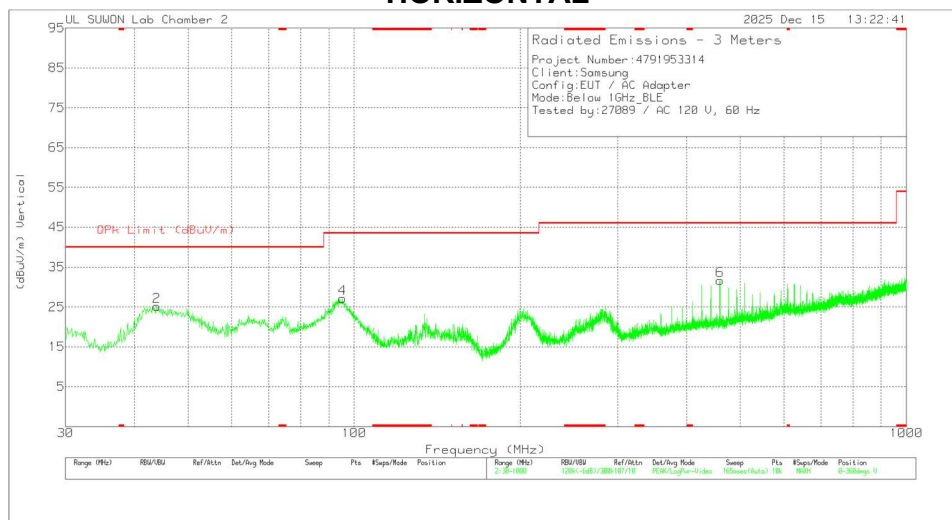
Note2. * - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

10.3. WORST CASE BELOW 1 GHz

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



HORIZONTAL



VERTICAL

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Factor (dB/m)	Below 1G Path Loss (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	75.978	40.45	Pk	13.2	-31.5	22.15	40	-17.85	0-360	300	H
3	95.96	44.2	Pk	16.7	-31.4	29.5	43.52	-14.02	0-360	200	H
5	* 609.575	40.55	Pk	25.1	-29.5	36.15	46.02	-9.87	0-360	200	H
2	43.871	37.47	Pk	19.4	-31.7	25.17	40	-14.83	0-360	100	V
4	95.281	41.94	Pk	16.6	-31.4	27.14	43.52	-16.38	0-360	100	V
6	459.419	39.27	Pk	22.1	-29.7	31.67	46.02	-14.35	0-360	100	V

Pk - 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.

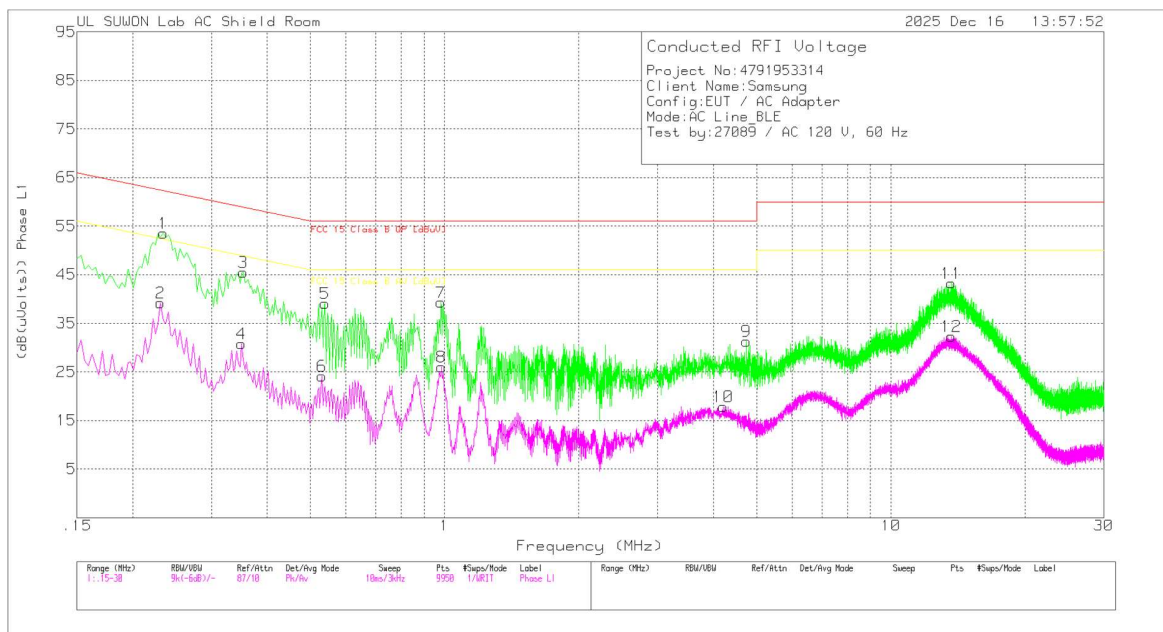
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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 With EX_L1 [dB]	Cable Loss [dB]	Corrected Reading [dBuV]	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
1	.234	43.79	Pk	9.7	.1	53.59	62.31	-8.72	-	-
2	.231	29.42	Av	9.7	.1	39.22	-	-	52.41	-13.19
3	.354	35.62	Pk	9.8	.1	45.52	58.87	-13.35	-	-
4	.351	20.94	Av	9.8	.1	30.84	-	-	48.94	-18.1
5	.54	29.06	Pk	9.9	.1	39.06	56	-16.94	-	-
6	.531	14.16	Av	9.9	.1	24.16	-	-	46	-21.84
7	.981	29.38	Pk	9.8	.1	39.28	56	-16.72	-	-
8	.984	16.14	Av	9.8	.1	26.04	-	-	46	-19.96
9	4.743	21.36	Pk	9.7	.2	31.26	56	-24.74	-	-
10	4.212	8.05	Av	9.7	.1	17.85	-	-	46	-28.15
11	13.662	32.99	Pk	10	.3	43.29	60	-16.71	-	-
12	13.653	22	Av	10	.3	32.3	-	-	50	-17.7

Pk - Peak detector

Av - Average detection

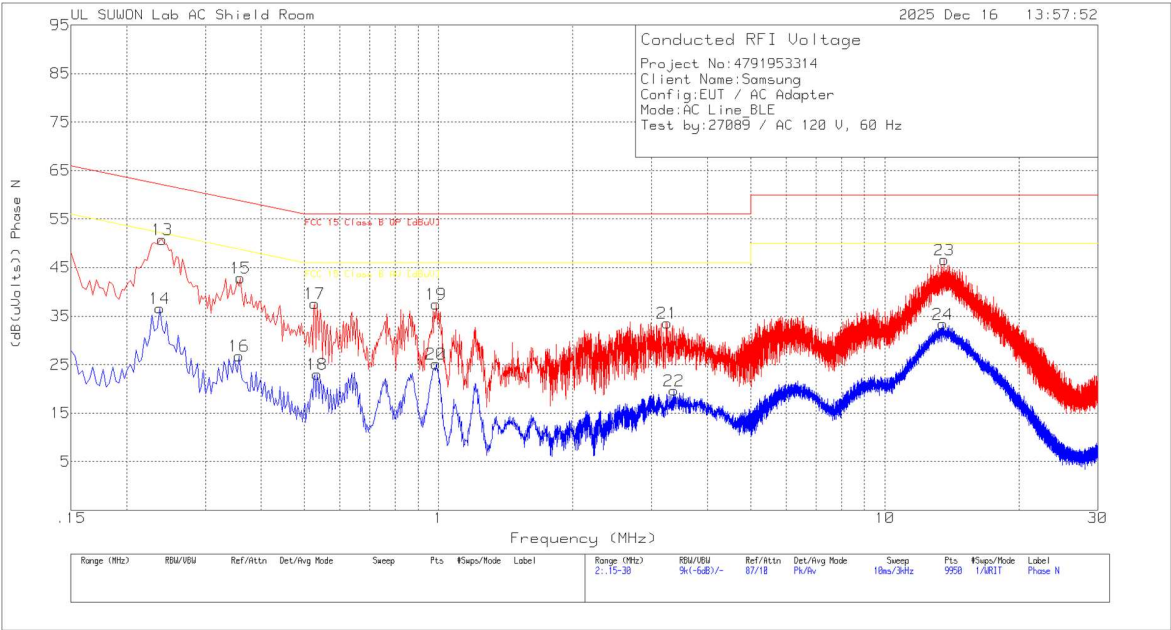
Quasi-Peak Emissions

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836 With EX_L1 [dB]	Cable Loss [dB]	Corrected Reading [dBuV]	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
.23475	33.22	Qp	9.7	.1	43.02	62.28	-19.26	-	-

Qp - Quasi-Peak detector

LINE 2 RESULTS



Trace Markers

Range 2: Phase N .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_N [dB]	Cable Loss [dB]	Corrected Reading [dBuV]	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
13	.24	41.01	Pk	9.7	.1	50.81	62.1	-11.29	-	-
14	.237	26.83	Av	9.7	.1	36.63	-	-	52.2	-15.57
15	.36	32.93	Pk	9.8	.1	42.83	58.73	-15.9	-	-
16	.357	16.86	Av	9.8	.1	26.76	-	-	48.8	-22.04
17	.528	27.54	Pk	9.9	.1	37.54	56	-18.46	-	-
18	.534	12.98	Av	9.9	.1	22.98	-	-	46	-23.02
19	.987	27.57	Pk	9.8	.1	37.47	56	-18.53	-	-
20	.987	15.28	Av	9.8	.1	25.18	-	-	46	-20.82
21	3.249	23.75	Pk	9.7	.1	33.55	56	-22.45	-	-
22	3.366	9.87	Av	9.7	.1	19.67	-	-	46	-26.33
23	13.593	36.27	Pk	10	.3	46.57	60	-13.43	-	-
24	13.497	23.07	Av	10	.3	33.37	-	-	50	-16.63

Pk - Peak detector
Av - Average detection

END OF TEST REPORT