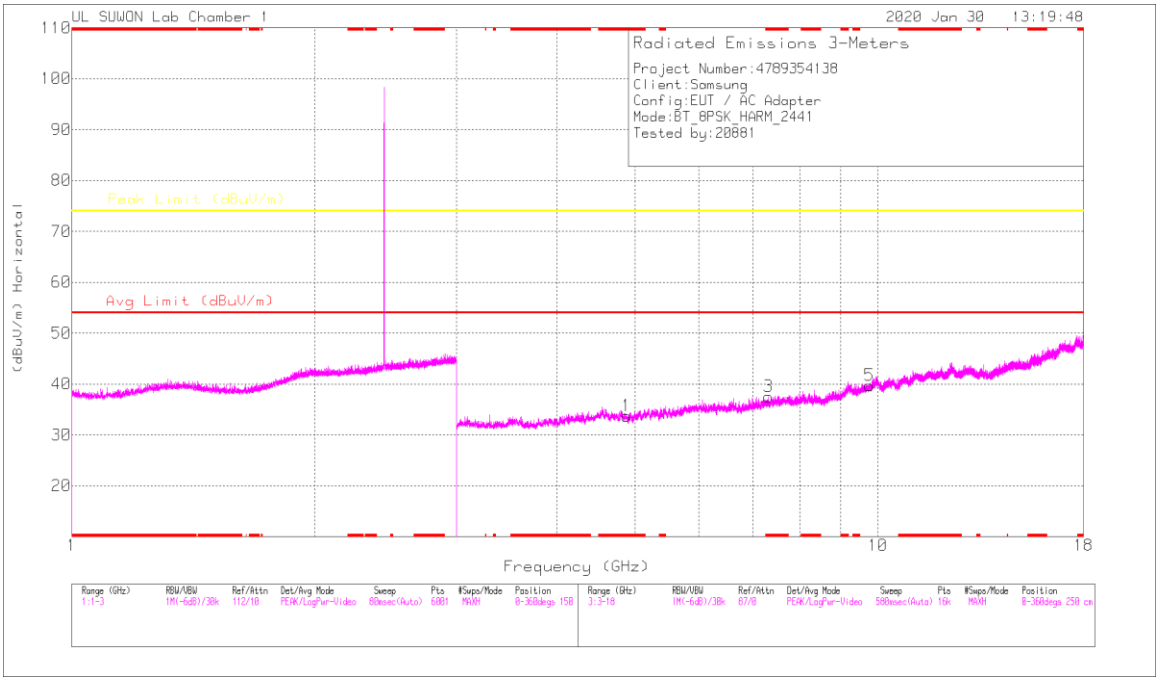
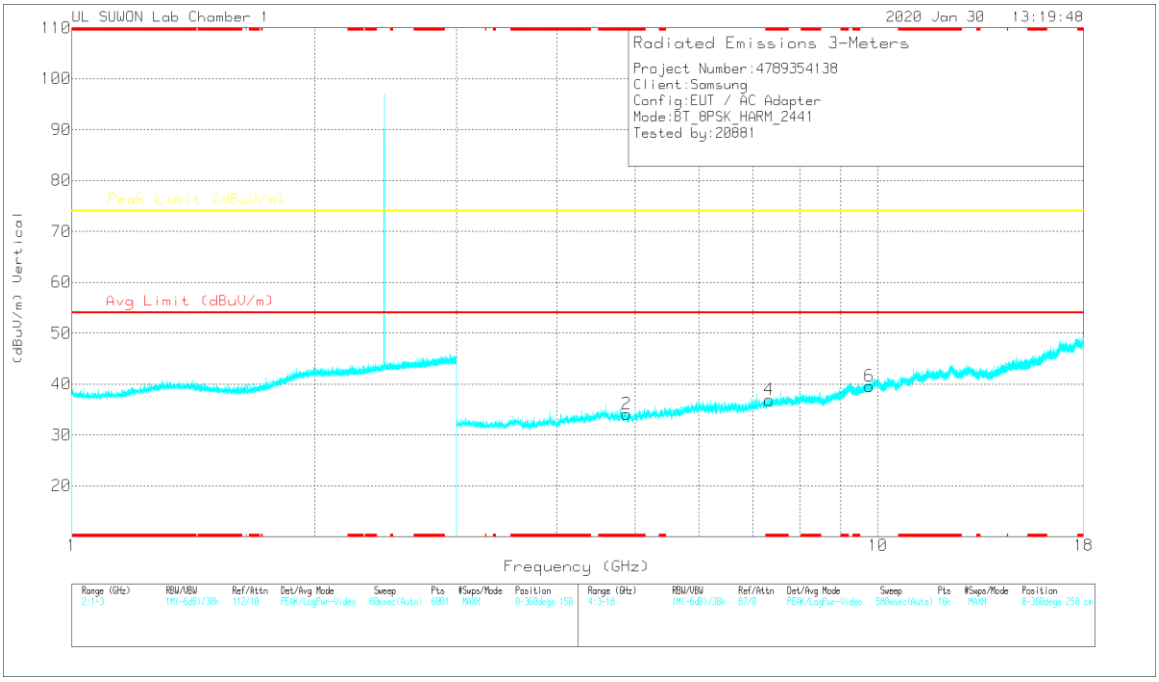
MID CHANNEL RESULTS



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.

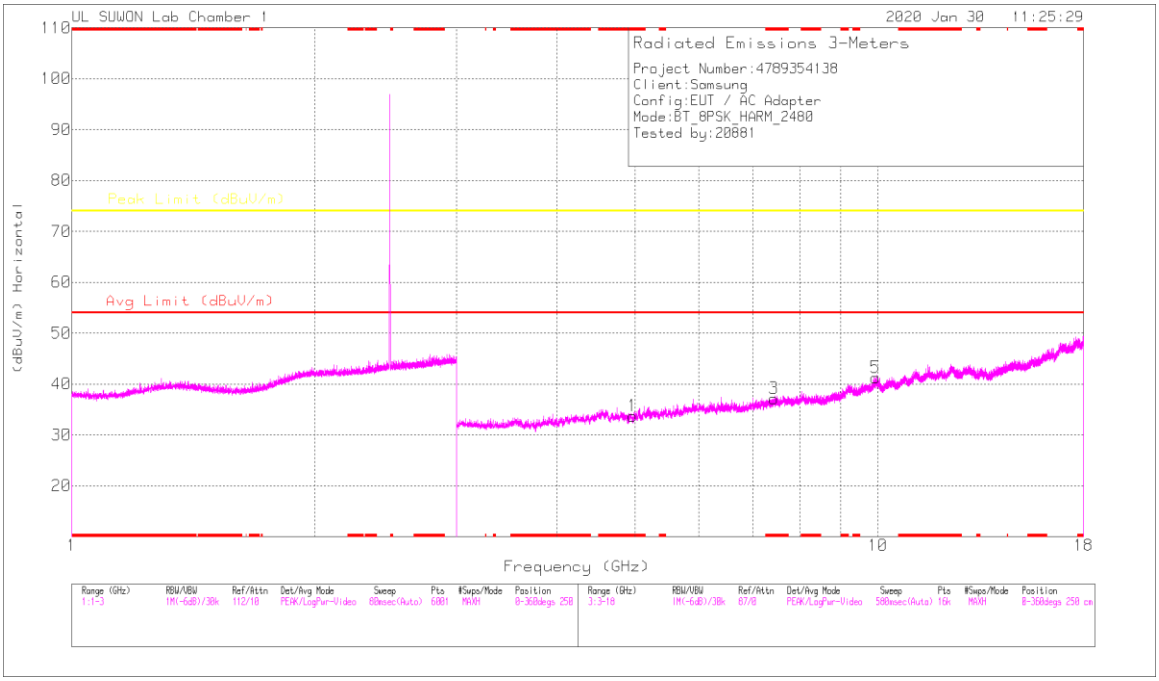
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	3GHz_HP[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.87544	39.43	PKFH	34.2	-31.6	42.03	-	-	74	-31.97	0	100	H
* 4.87621	39.84	PKFH	34.2	-31.5	42.54	-	-	74	-31.46	0	100	V
* 7.31849	35.88	PKFH	35.8	-27.3	44.38	-	-	74	-29.62	0	100	H
* 7.32051	35.42	PKFH	35.8	-27.2	44.02	-	-	74	-29.98	0	100	V
9.76381	32.55	PKFH	37.2	-24	45.75	-	-	74	-28.25	0	100	H
9.76309	33.38	PKFH	37.2	-23.9	46.68	-	-	74	-27.32	0	100	V

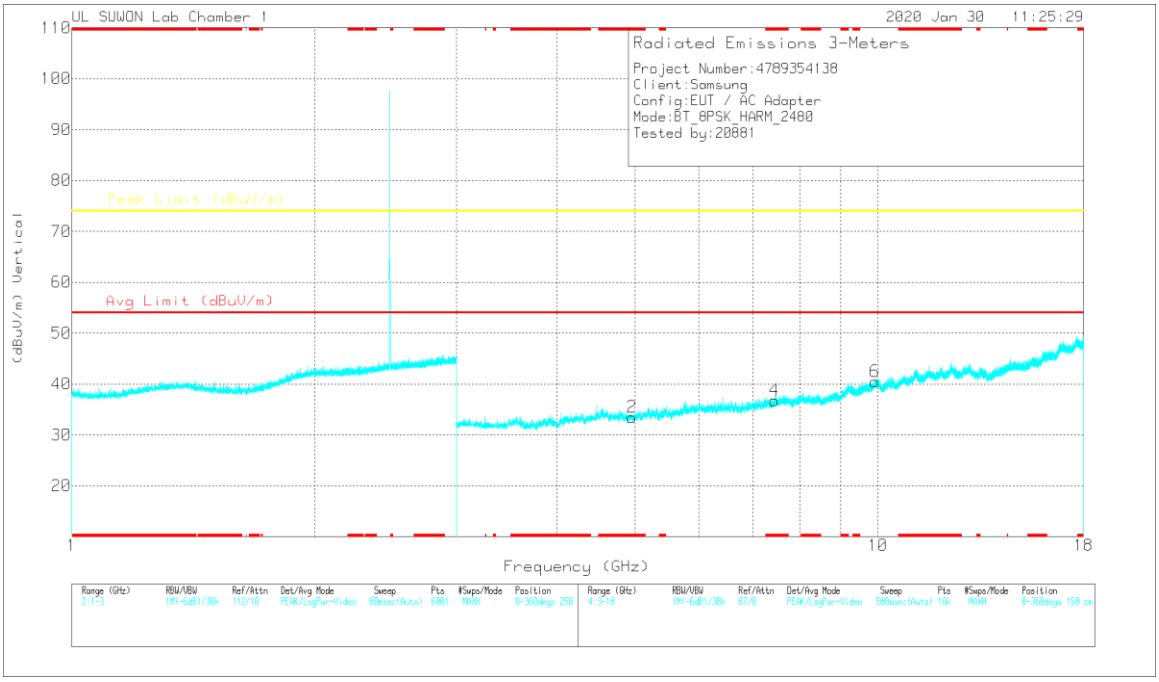
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C(03)
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433

HIGH 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

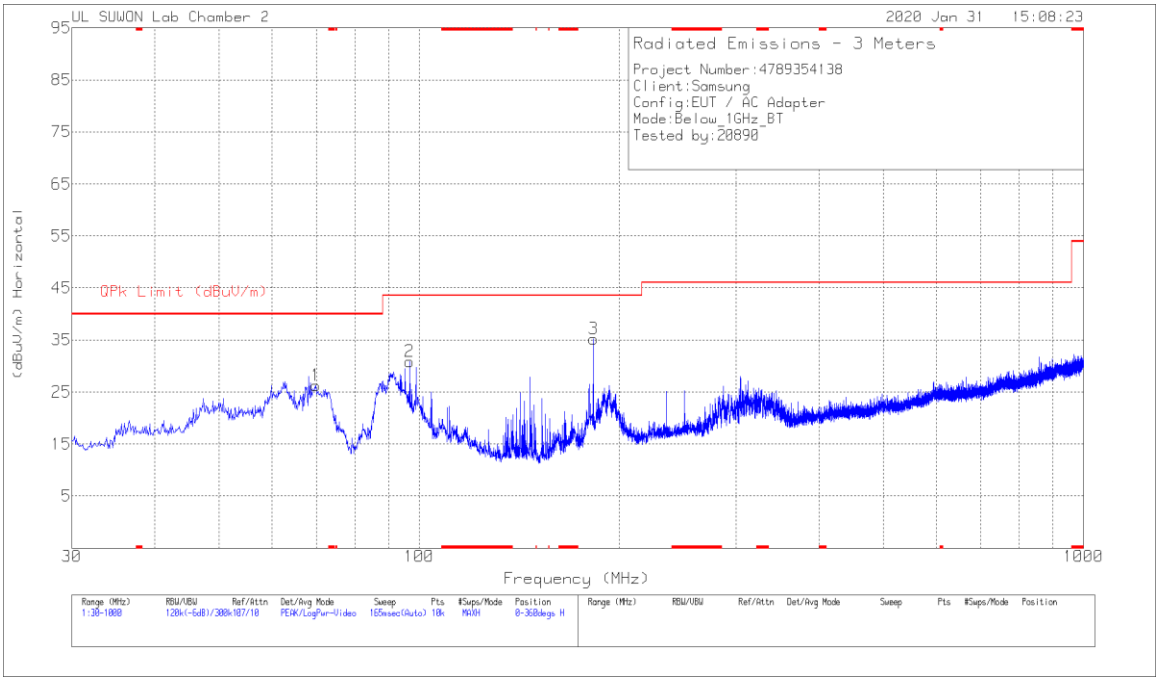
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	3GHz_HP[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.96036	39.19	PKFH	34.2	-31.6	41.79	-	-	74	-32.21	0	100	H
* 4.95917	38.26	PKFH	34.2	-31.6	40.86	-	-	74	-33.14	0	100	V
* 7.43644	35.99	PKFH	35.8	-27.1	44.69	-	-	74	-29.31	0	100	H
* 7.43842	35.21	PKFH	35.8	-27.2	43.81	-	-	74	-30.19	0	100	V
9.9289	31.37	PKFH	37.5	-21.7	47.17	-	-	74	-26.83	0	100	H
9.92866	32.29	PKFH	37.5	-21.7	48.09	-	-	74	-25.91	0	100	V

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

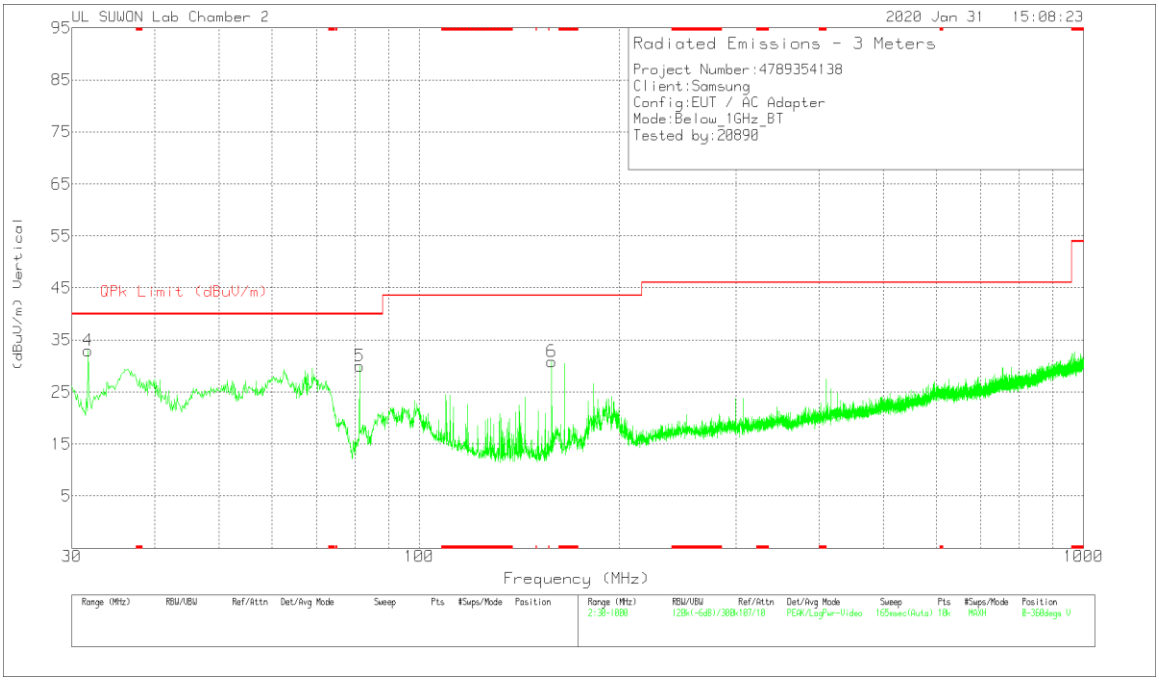
UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C(03)
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433

11.2. WORST CASE BELOW 1 GHZ

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



HORIZONTAL



VERTICAL

Below 1GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	69.867	42.38	Pk	15.5	-31.6	26.28	40	-13.72	0-360	300	H
2	96.736	44.85	Pk	17.4	-31.4	30.85	43.52	-12.67	0-360	300	H
3	182.969	50.06	Pk	16.1	-30.9	35.26	43.52	-8.26	0-360	300	H
4	31.746	49.28	Pk	15.5	-31.8	32.98	40	-7.02	0-360	200	V
5	81.313	48.68	Pk	12.7	-31.4	29.98	40	-10.02	0-360	100	V
6	158.331	47.42	Pk	14.4	-31	30.82	43.52	-12.7	0-360	100	V

Pk - Peak detector

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C(03)
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433

12. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

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

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

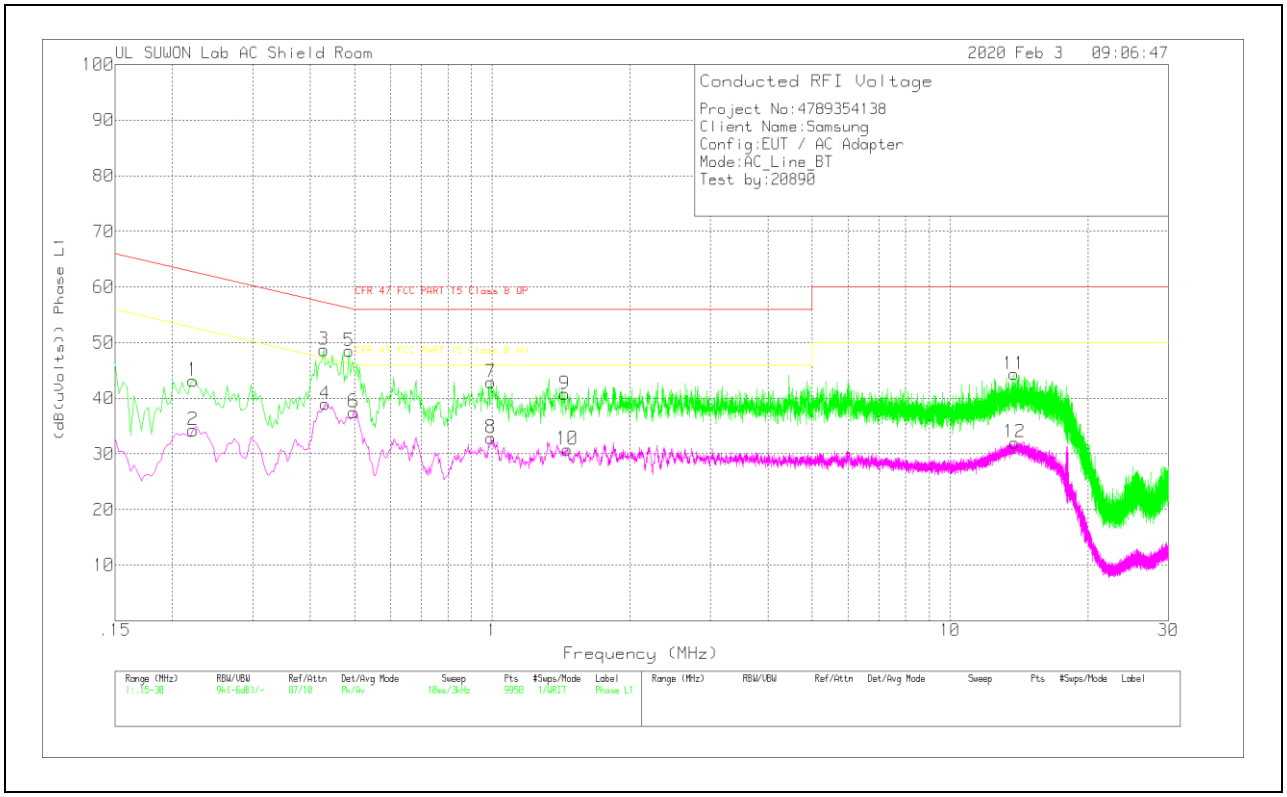
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

12.1.1. 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]	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
1	.222	33.17	Pk	9.8	.2	43.17	62.74	-19.57	-	-
2	.222	24.29	Av	9.8	.2	34.29	-	-	52.74	-18.45
3	.429	38.61	Pk	9.9	.2	48.71	57.27	-8.56	-	-
4	.432	28.88	Av	9.9	.2	38.98	-	-	47.21	-8.23
5	.486	38.39	Pk	9.9	.2	48.49	56.24	-7.75	-	-
6	.498	27.43	Av	9.9	.2	37.53	-	-	46.03	-8.5
7	.993	32.79	Pk	9.8	.3	42.89	56	-13.11	-	-
8	.993	22.79	Av	9.8	.3	32.89	-	-	46	-13.11
9	1.44	30.68	Pk	9.8	.3	40.78	56	-15.22	-	-
10	1.458	20.7	Av	9.8	.3	30.8	-	-	46	-15.2
11	13.788	33.84	Pk	10.1	.4	44.34	60	-15.66	-	-
12	13.83	21.56	Av	10.1	.4	32.06	-	-	50	-17.94

Pk - Peak detector

Av - Average detection

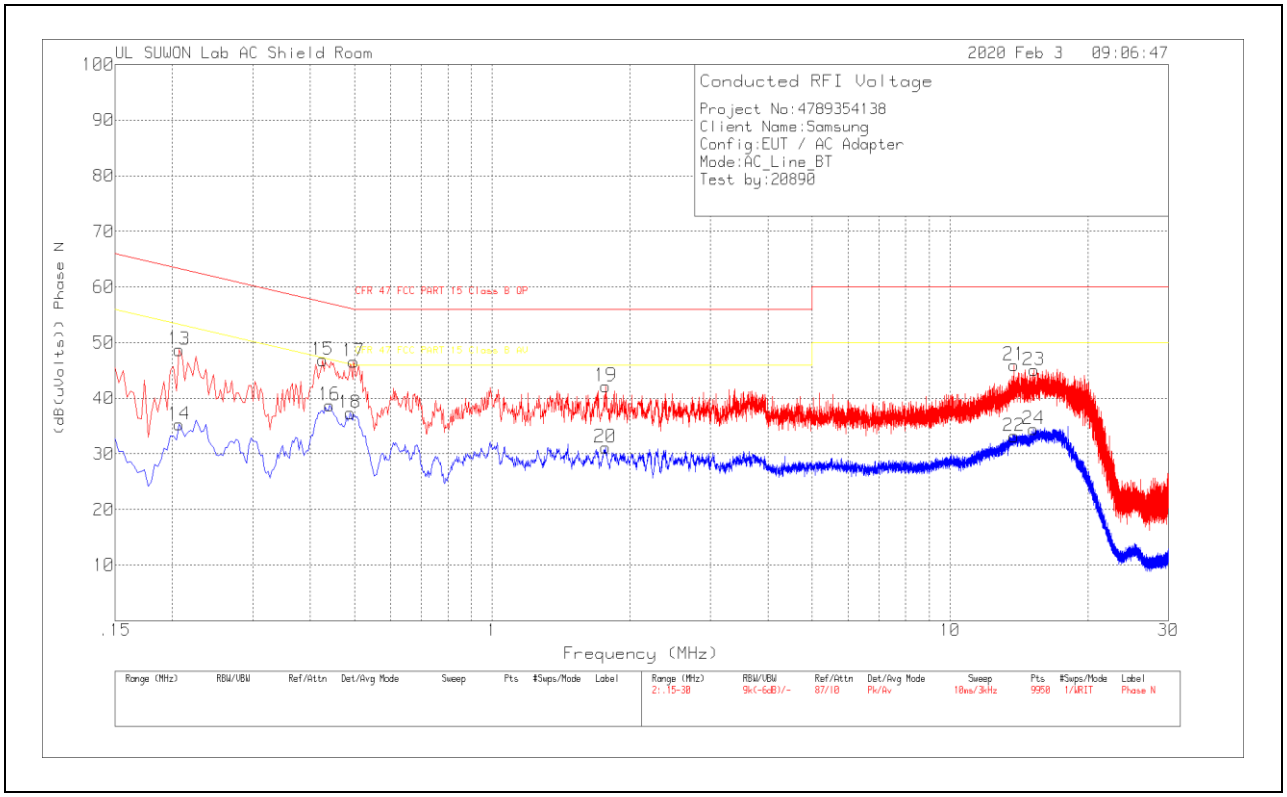
Quasi-Peak Emissions

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With Ex_L1[dB]	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.42975	32.85	Qp	9.9	.2	42.95	57.26	-14.31	-	-
.48675	32.93	Qp	9.9	.2	43.03	56.22	-13.19	-	-

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]	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
13	.207	38.61	Pk	9.9	.2	48.71	63.32	-14.61	-	-
14	.207	25.21	Av	9.9	.2	35.31	-	-	53.32	-18.01
15	.426	36.79	Pk	9.9	.2	46.89	57.33	-10.44	-	-
16	.441	28.66	Av	9.9	.2	38.76	-	-	47.04	-8.28
17	.498	36.52	Pk	9.9	.2	46.62	56.03	-9.41	-	-
18	.489	27.24	Av	9.9	.2	37.34	-	-	46.18	-8.84
19	1.77	32.1	Pk	9.8	.3	42.2	56	-13.8	-	-
20	1.767	21.09	Av	9.8	.3	31.19	-	-	46	-14.81
21	13.809	35.47	Pk	10.1	.4	45.97	60	-14.03	-	-
22	13.791	22.69	Av	10.1	.4	33.19	-	-	50	-16.81
23	15.255	34.56	Pk	10.1	.4	45.06	60	-14.94	-	-
24	15.231	23.96	Av	10.1	.4	34.46	-	-	50	-15.54

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_N[dB]	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.42525	21.59	Qp	9.9	.2	31.69	57.34	-25.65	-	-
.49725	29.87	Qp	9.9	.2	39.97	56.05	-16.08	-	-

Qp - Quasi-Peak detector

END OF TEST REPORT

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C(03)
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433