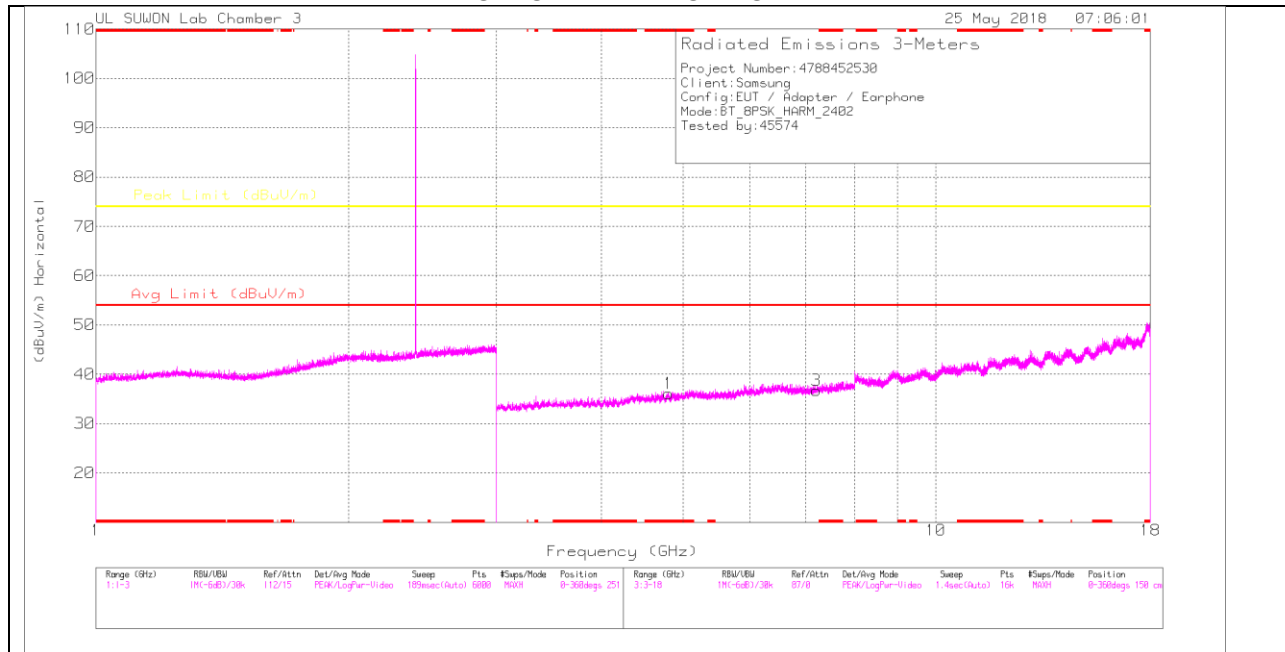
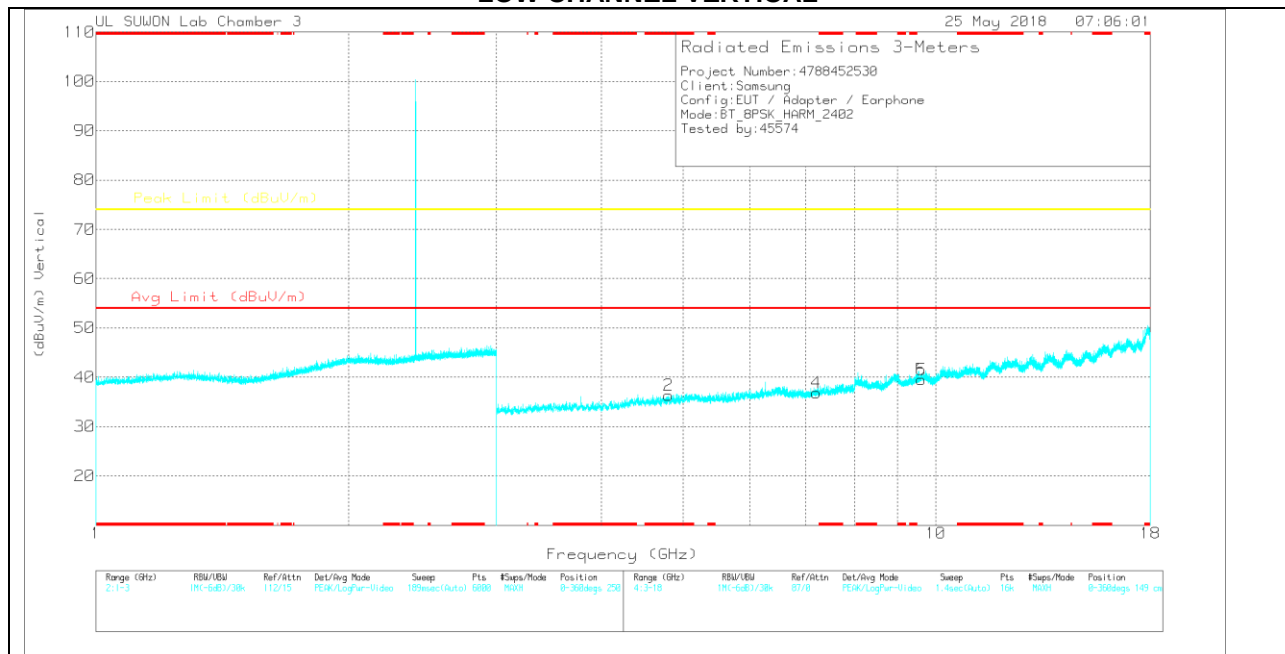


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL 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.

LOW CHANNEL DATA

Trace Markers

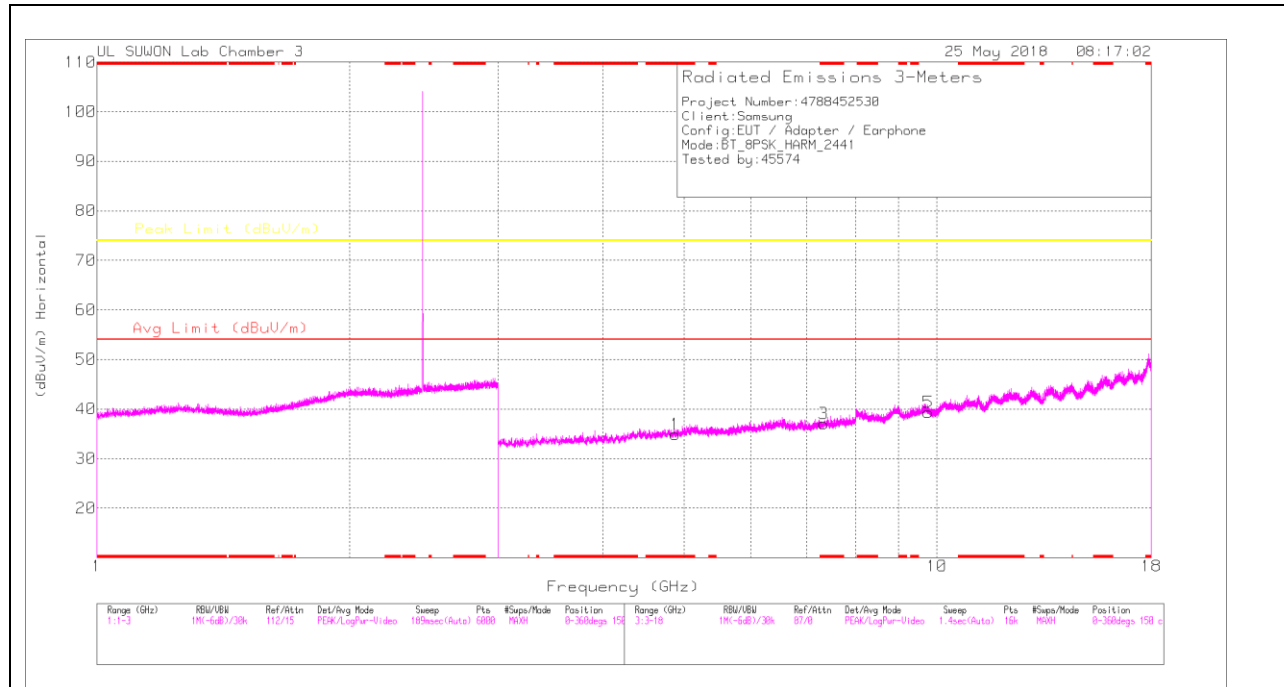
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[00205959]	3GHz_HP[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.807	30.41	PK	33.9	-28.2	36.11	-	-	74	-37.89	0-360	150	H
3	7.207	25.14	PK	35.6	-24	36.74	-	-	74	-37.26	0-360	150	H
2	* 4.803	30.67	PK	33.9	-28.2	36.37	-	-	74	-37.63	0-360	250	V
4	7.207	25.23	PK	35.6	-24	36.83	-	-	74	-37.17	0-360	149	V
5	9.609	22.78	PK	36.7	-19.9	39.58	-	-	74	-34.42	0-360	250	V
6	9.609	22.78	PK	36.7	-19.9	39.58	-	-	74	-34.42	0-360	250	V

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

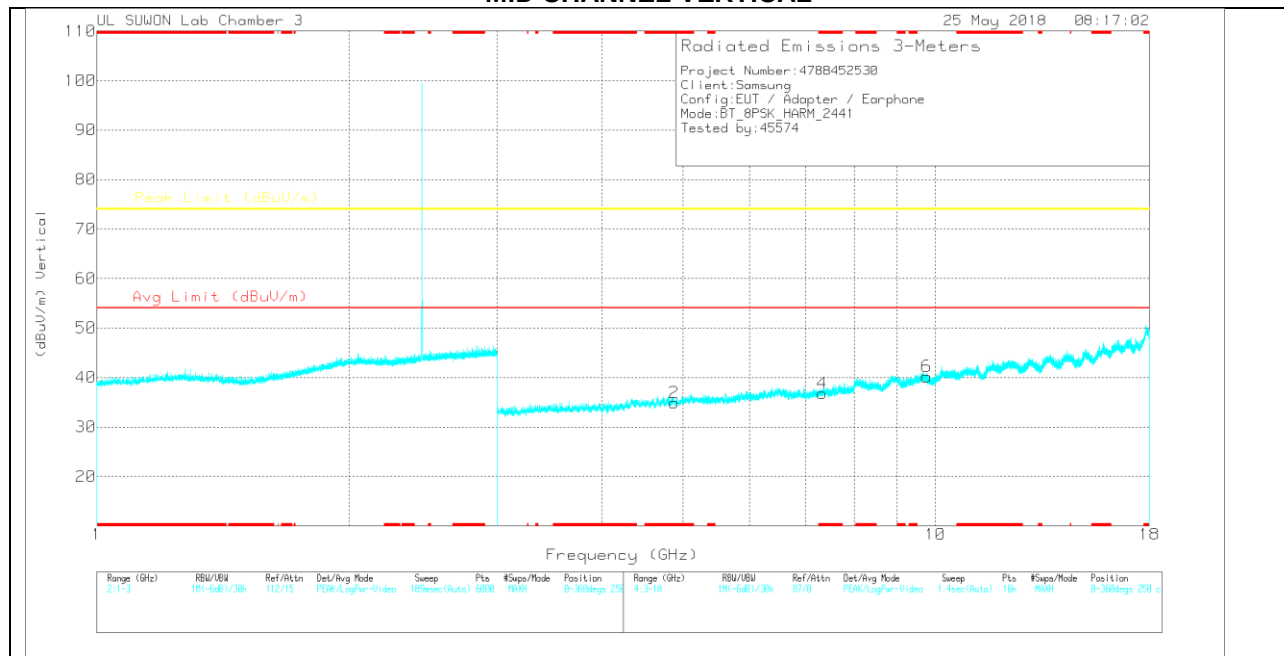
PK – Peak Detector

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 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

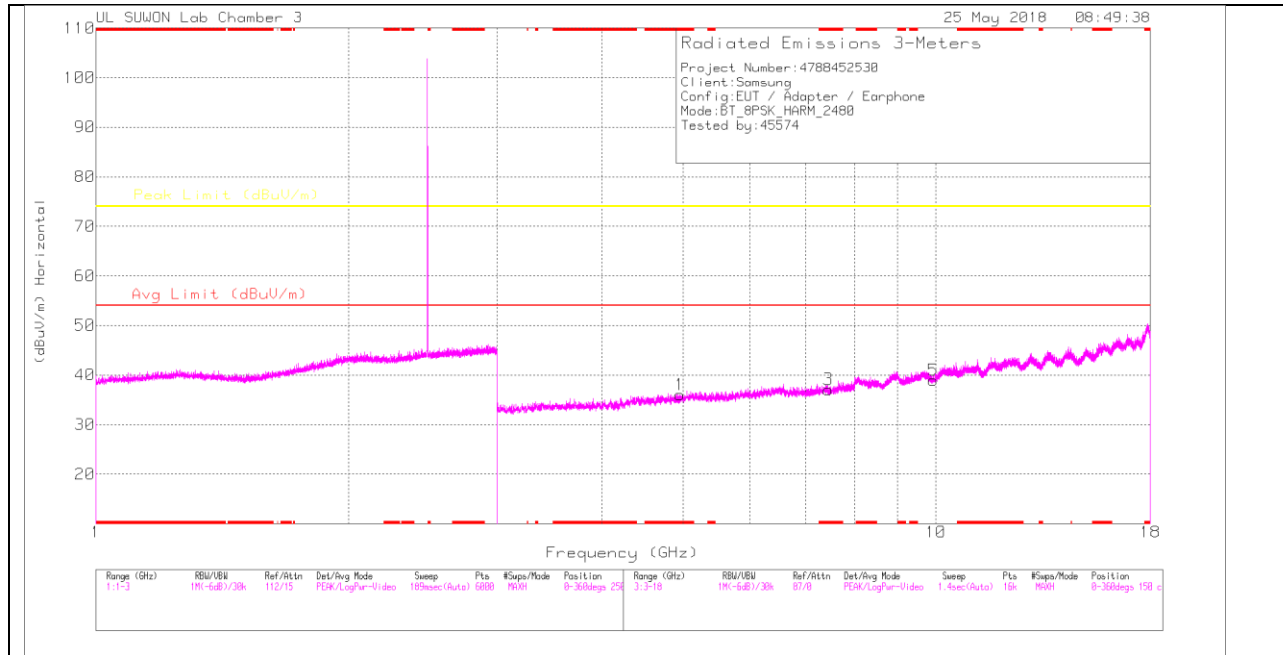
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[00205959]	3GHz_HP[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.883	29.74	PK	34	-28.9	34.84	-	-	74	-39.16	0-360	150	H
3	* 7.323	24.8	PK	35.6	-23.4	37	-	-	74	-37	0-360	150	H
5	9.764	21.96	PK	36.9	-19.5	39.36	-	-	74	-34.64	0-360	250	H
2	* 4.883	29.75	PK	34	-28.9	34.85	-	-	74	-39.15	0-360	149	V
4	* 7.323	24.63	PK	35.6	-23.4	36.83	-	-	74	-37.17	0-360	149	V
6	9.764	22.76	PK	36.9	-19.5	40.16	-	-	74	-33.84	0-360	149	V

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

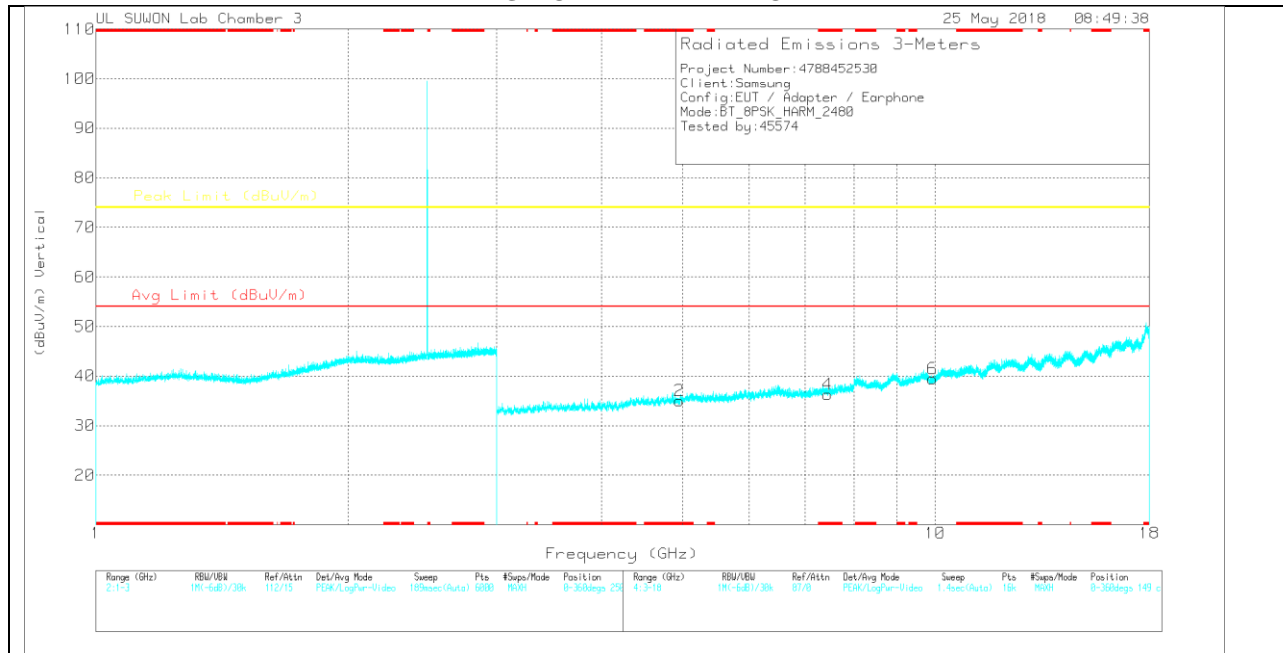
PK – Peak Detector

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 26GHz; 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[00205959]	3GHz_HP[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.96	30.39	PK	34.1	-28.5	35.99	-	-	74	-38.01	0-360	150	H
3	* 7.44	24.71	PK	35.6	-23.2	37.11	-	-	74	-36.89	0-360	250	H
5	9.921	21.67	PK	37	-19.7	38.97	-	-	74	-35.03	0-360	150	H
2	* 4.96	29.41	PK	34.1	-28.5	35.01	-	-	74	-38.99	0-360	149	V
4	* 7.44	23.89	PK	35.6	-23.2	36.29	-	-	74	-37.71	0-360	149	V
6	9.92	22.21	PK	37	-19.7	39.51	-	-	74	-34.49	0-360	149	V

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

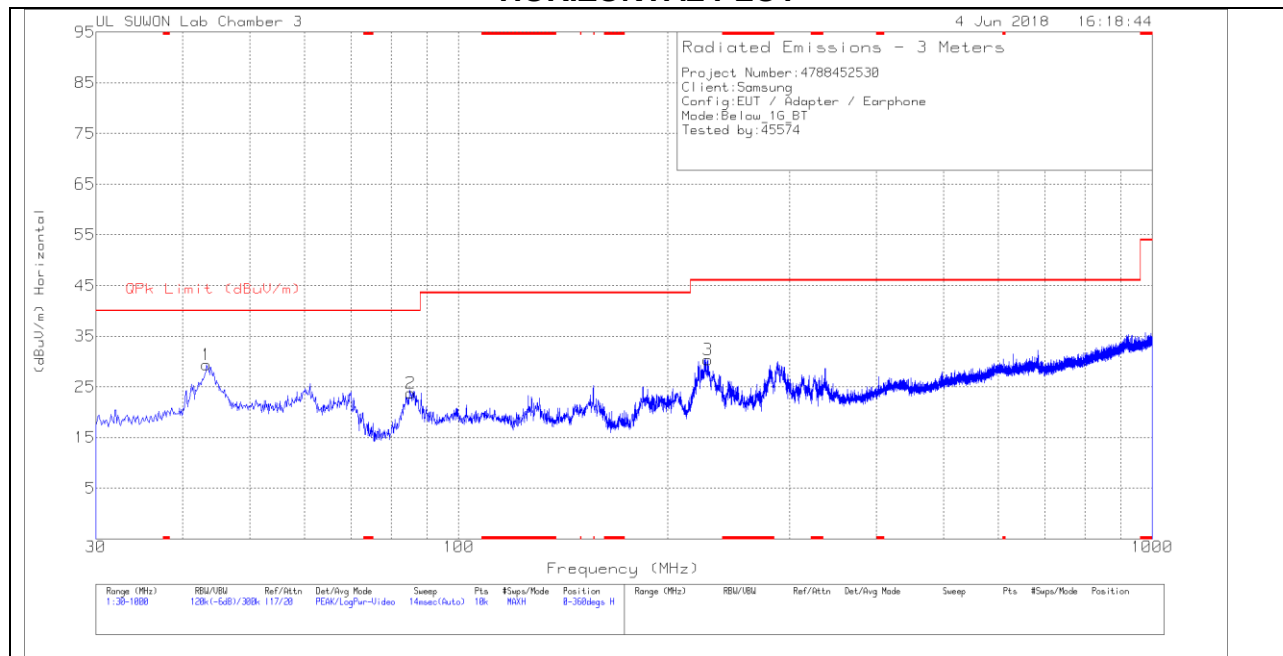
PK - Peak Detector

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

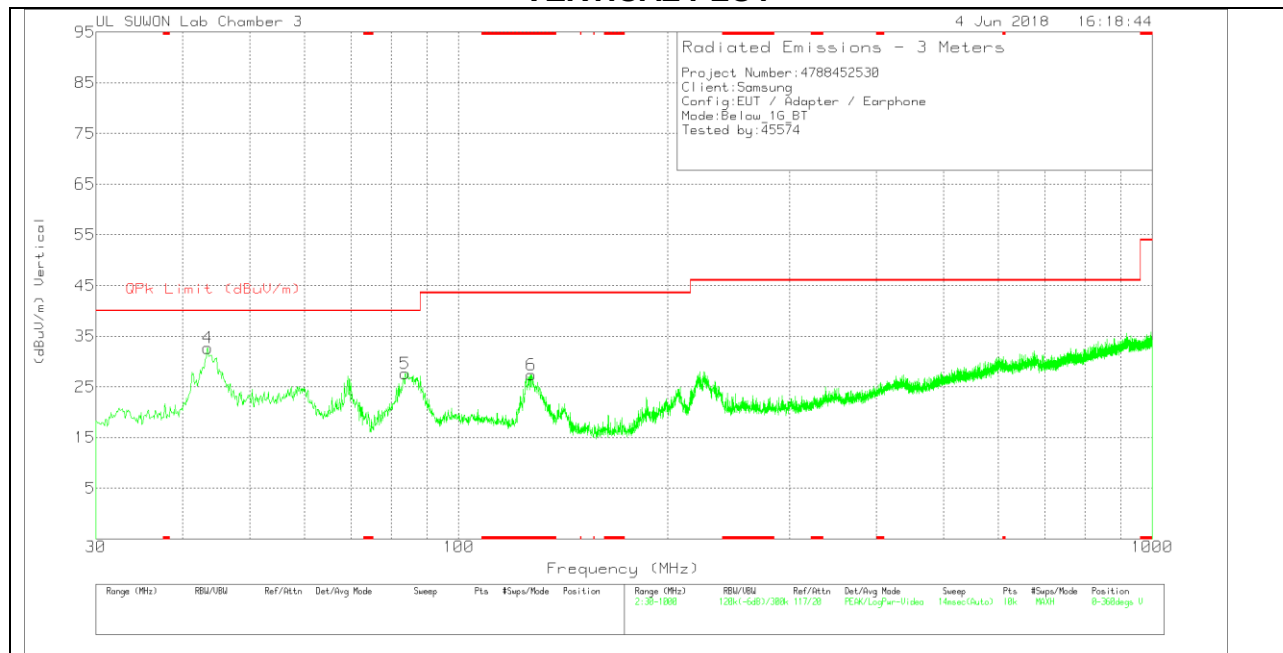
11.3. WORST-CASE BELOW 1 GHz

GFSK SPURIOUS EMISSIONS 30 TO 1000 MHz

HORIZONTAL PLOT



VERTICAL PLOT



BELOW 1 GHz TABLE

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163-845	30-1000MHz[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	43.2904	41.54	Pk	19.7	-31.9	29.34	40	-10.66	0-360	300	H
2	85.2957	41	Pk	14.5	-31.7	23.8	40	-16.2	0-360	200	H
3	228.5795	43.7	Pk	17.7	-31	30.4	46.02	-15.62	0-360	100	H
4	43.4844	44.85	Pk	19.7	-31.9	32.65	40	-7.35	0-360	100	V
5	83.7435	45.33	Pk	14	-31.7	27.63	40	-12.37	0-360	100	V
6	* 127.398	43.7	Pk	15	-31.3	27.4	43.52	-16.12	0-360	100	V

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

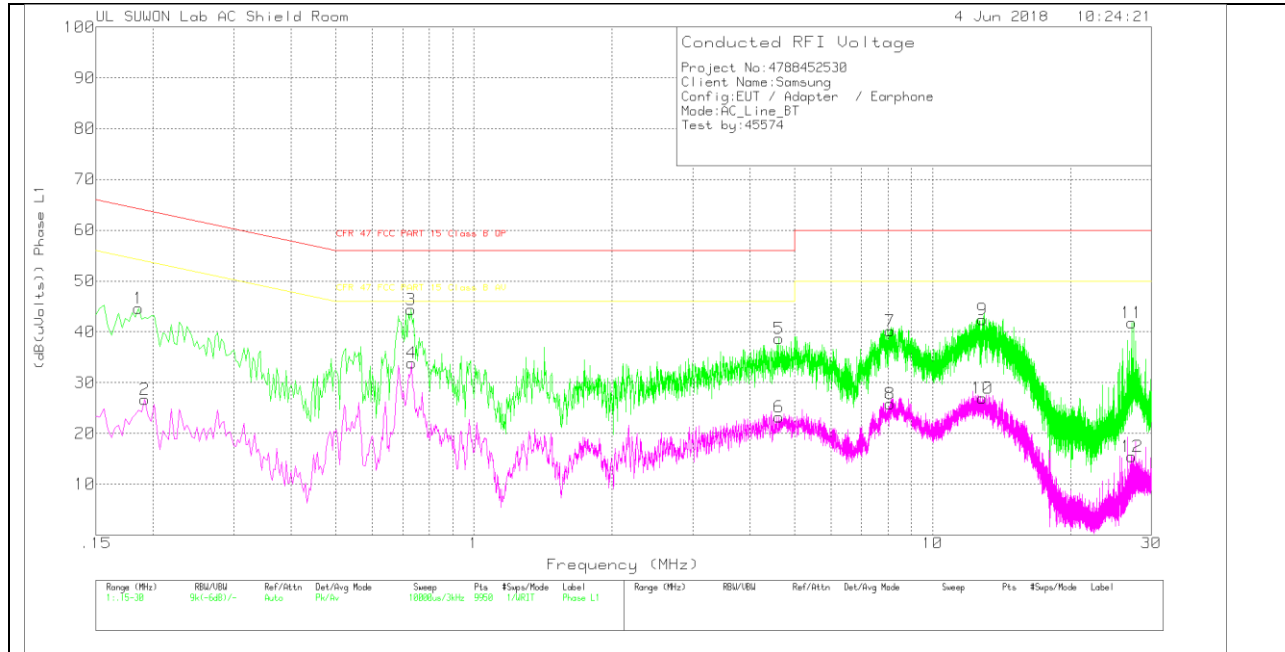
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

WORST EMISSIONS

LINE 1 PLOT



LINE 1 RESULTS

Trace Markers

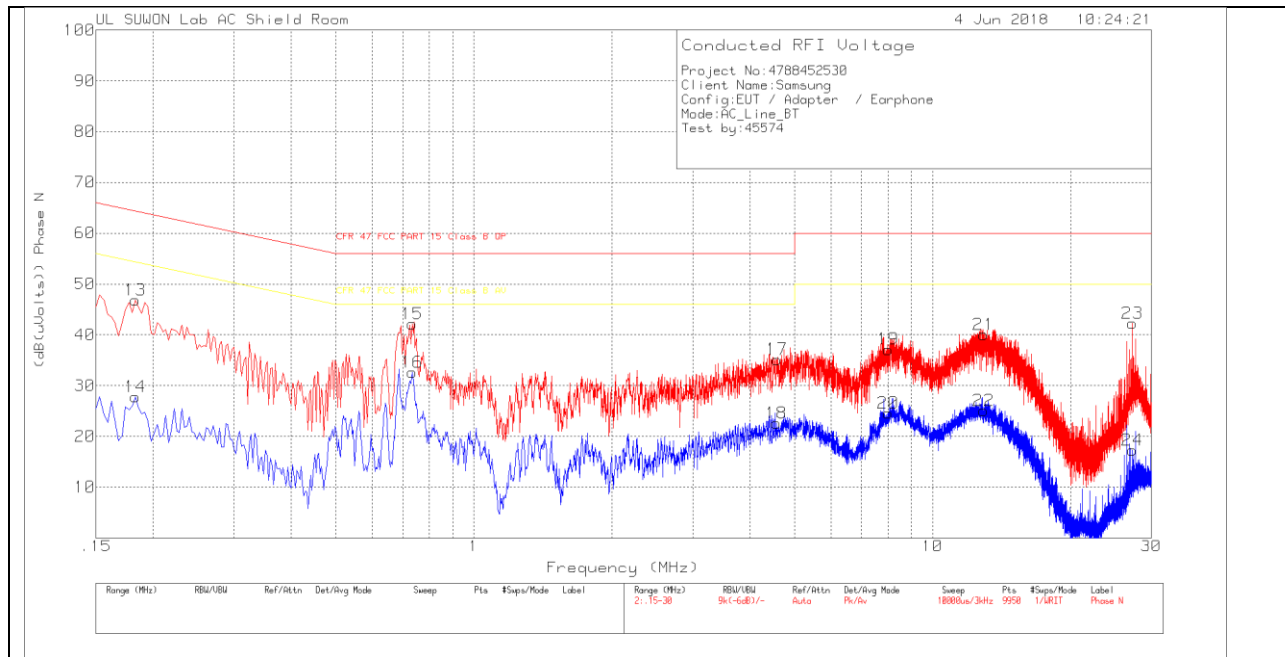
Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_L1_wit h extension	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	.186	34.57	Pk	9.9	.2	44.67	64.21	-19.54	-	-
2	.192	16.74	Av	9.8	.2	26.74	-	-	53.95	-27.21
3	.729	34.5	Pk	9.7	.2	44.4	56	-11.6	-	-
4	.732	24	Av	9.7	.2	33.9	-	-	46	-12.1
5	4.623	28.67	Pk	9.7	.3	38.67	56	-17.33	-	-
6	4.62	13.23	Av	9.7	.3	23.23	-	-	46	-22.77
7	8.079	30.16	Pk	9.7	.3	40.16	60	-19.84	-	-
8	8.091	15.8	Av	9.7	.3	25.8	-	-	50	-24.2
9	12.858	32.17	Pk	9.8	.4	42.37	60	-17.63	-	-
10	12.855	16.79	Av	9.8	.4	26.99	-	-	50	-23.01
11	27.234	31.23	Pk	10.3	.3	41.83	60	-18.17	-	-
12	27.234	4.82	Av	10.3	.3	15.42	-	-	50	-34.58

Pk - Peak detector

Av - Average detection

LINE 2 PLOT



LINE 2 RESULTS

Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_N_with extension	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	.183	36.67	Pk	10	.2	46.87	64.35	-17.48	-	-
14	.183	17.65	Av	10	.2	27.85	-	-	54.35	-26.5
15	.735	32.24	Pk	9.7	.2	42.14	56	-13.86	-	-
16	.735	22.68	Av	9.7	.2	32.58	-	-	46	-13.42
17	4.584	25.06	Pk	9.8	.3	35.16	56	-20.84	-	-
18	4.569	12.45	Av	9.8	.3	22.55	-	-	46	-23.45
19	8.004	27.04	Pk	9.8	.3	37.14	60	-22.86	-	-
20	8.01	14.43	Av	9.8	.3	24.53	-	-	50	-25.47
21	12.936	29.79	Pk	9.8	.4	39.99	60	-20.01	-	-
22	12.909	14.87	Av	9.8	.4	25.07	-	-	50	-24.93
23	27.297	31.7	Pk	10.3	.3	42.3	60	-17.7	-	-
24	27.294	6.72	Av	10.3	.3	17.32	-	-	50	-32.68

Pk - Peak detector

Av - Average detection