

**LOW CHANNEL DATA**

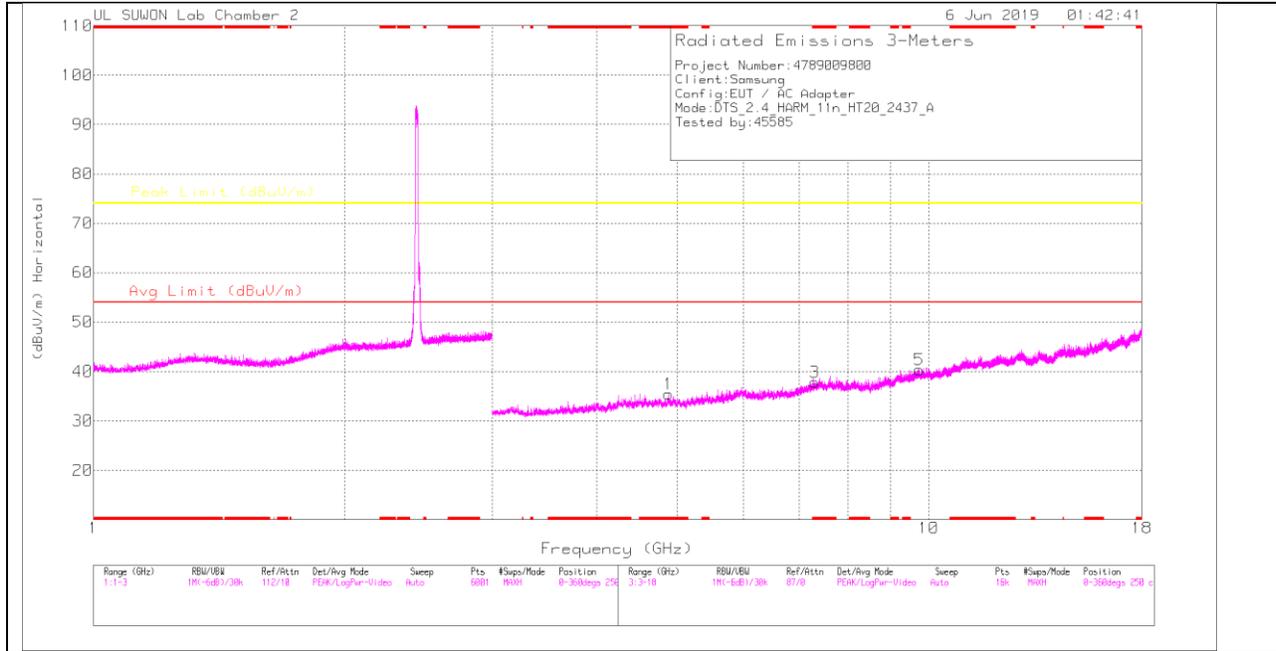
Trace Markers

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	* 4.832	29.13	PK	34	-28.3	0	34.83	-	-	74	-39.17	0-360	150	H
3	7.241	26.92	PK	36.1	-25.5	0	37.52	-	-	74	-36.48	0-360	250	H
5	9.646	25.66	PK	37	-21.7	0	40.96	-	-	74	-33.04	0-360	150	H
2	* 4.829	29.75	PK	34	-28.1	0	35.65	-	-	74	-38.35	0-360	250	V
4	7.238	26.37	PK	36.1	-25.5	0	36.97	-	-	74	-37.03	0-360	250	V
6	9.643	24.32	PK	37	-21.7	0	39.62	-	-	74	-34.38	0-360	250	V

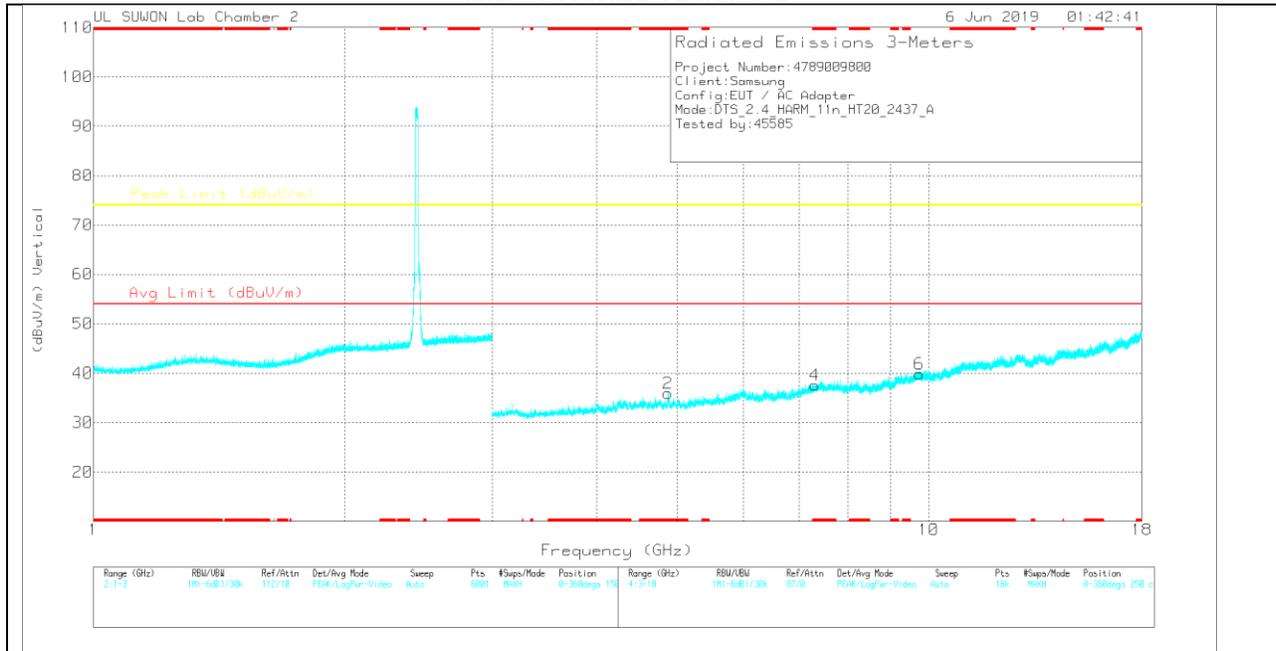
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK – Peak Detector

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_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	* 4.88	29.29	PK	34	-27.9	0	35.39	-	-	74	-38.61	0-360	150	H
3	* 7.304	26.69	PK	36.2	-25.1	0	37.79	-	-	74	-36.21	0-360	250	H
5	9.74	24.54	PK	37.2	-21.4	0	40.34	-	-	74	-33.66	0-360	150	H
2	* 4.873	29.99	PK	34	-28	0	35.99	-	-	74	-38.01	0-360	150	V
4	* 7.308	26.33	PK	36.2	-25	0	37.53	-	-	74	-36.47	0-360	250	V
6	9.738	23.94	PK	37.2	-21.3	0	39.84	-	-	74	-34.16	0-360	150	V

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

PK – Peak Detector

Radiated Emissions

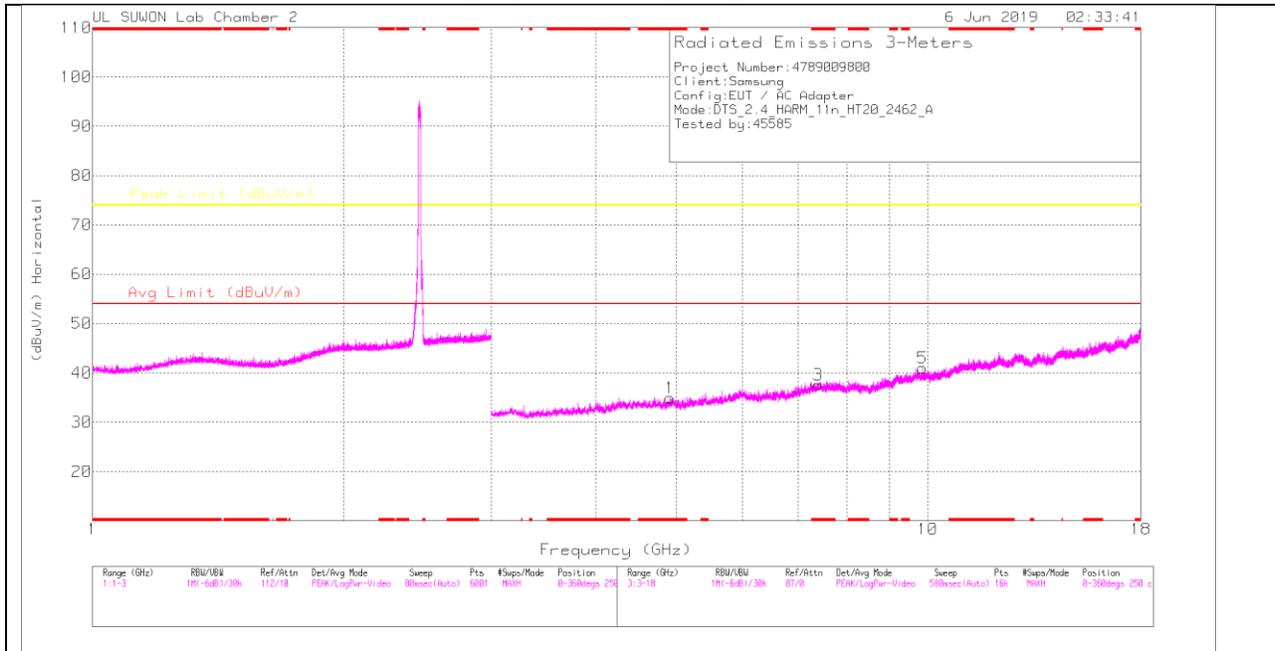
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 7.299	35.5	PK2	36.2	-25.1	0	46.6	-	-	74	-27.4	153	100	H
* 7.307	23.39	MAv1	36.2	-25.1	0	34.49	54	-19.51	-	-	153	100	H
* 7.308	34.97	PK2	36.2	-25.1	0	46.07	-	-	74	-27.93	136	171	V
* 7.309	23.38	MAv1	36.2	-25.1	0	34.48	54	-19.52	-	-	136	171	V

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

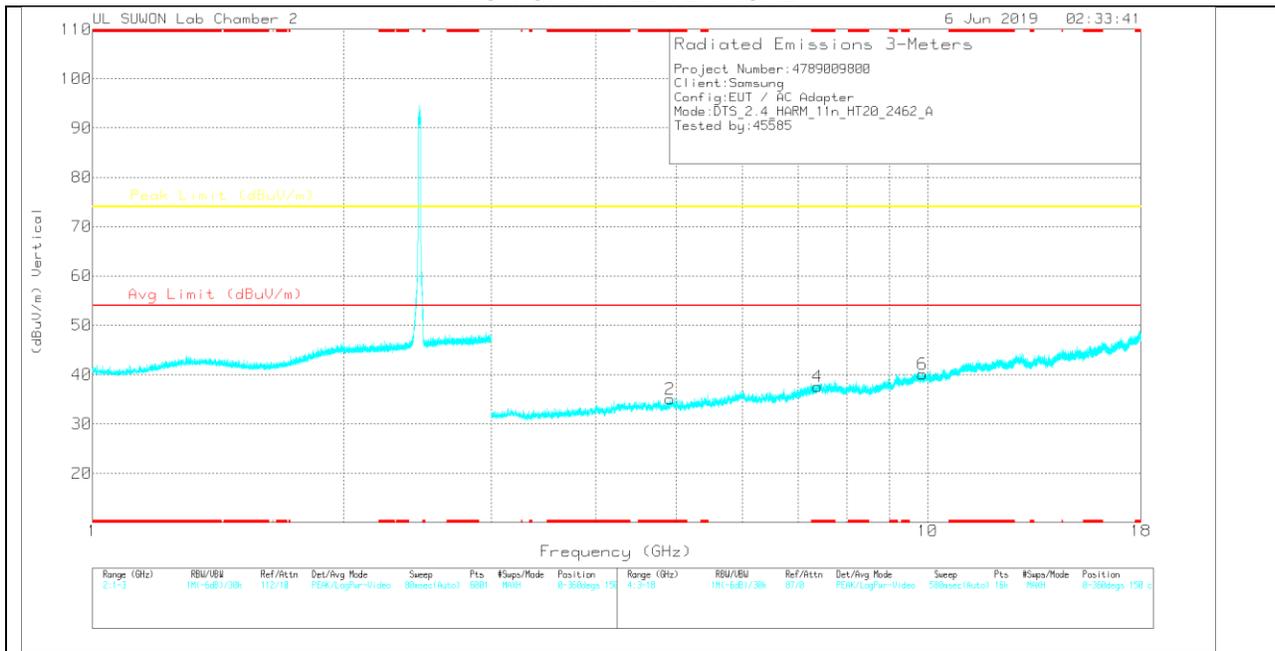
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

**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

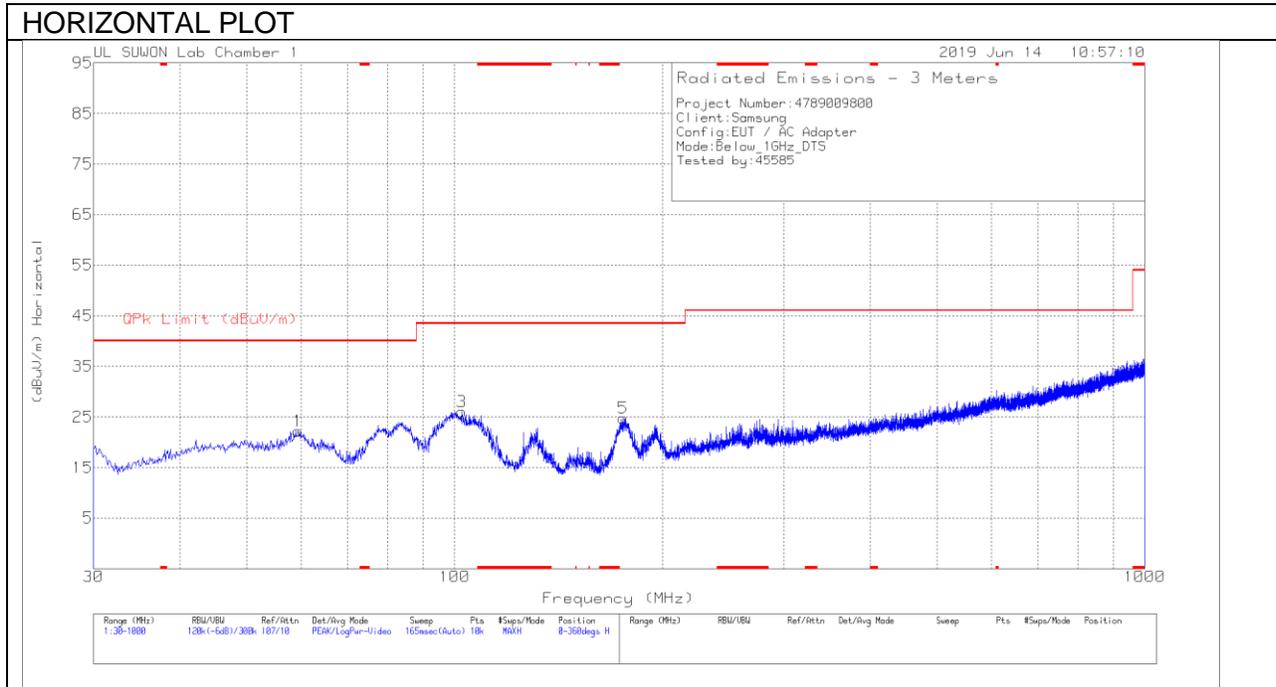
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.914	28.34	PK	34	-27.4	0	34.94	-	-	74	-39.06	0-360	150	H
3	* 7.387	25.61	PK	36.2	-24.2	0	37.61	-	-	74	-36.39	0-360	250	H
5	9.852	25.24	PK	37.4	-21.7	0	40.94	-	-	74	-33.06	0-360	150	H
2	* 4.913	28.43	PK	34	-27.4	0	35.03	-	-	74	-38.97	0-360	250	V
4	* 7.384	25.74	PK	36.2	-24.3	0	37.64	-	-	74	-36.36	0-360	250	V
6	9.852	24.38	PK	37.4	-21.7	0	40.08	-	-	74	-33.92	0-360	250	V

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

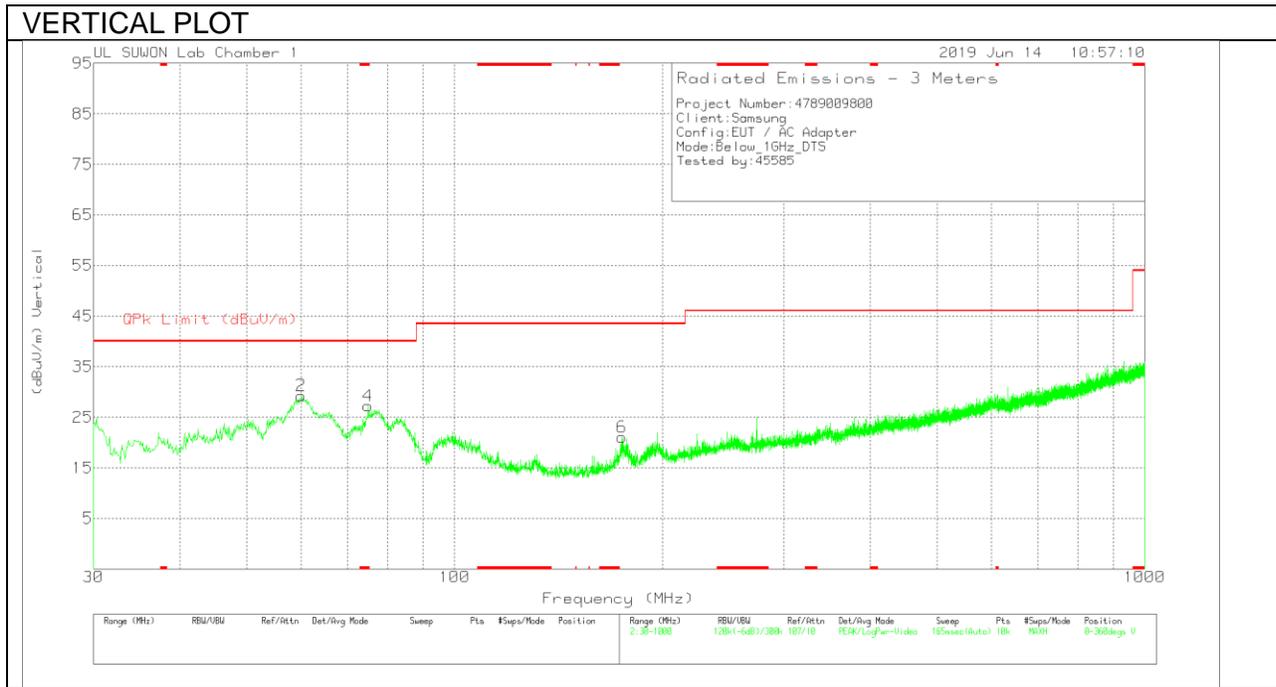
Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

### 11.3. WORST-CASE BELOW 1 GHz

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



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



**Below 1G Data**

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	59.294	33.74	Pk	18.7	-30.3	22.14	40	-17.86	0-360	400	H
3	102.556	37.75	Pk	17.9	-29.6	26.05	43.52	-17.47	0-360	300	H
5	175.403	38.47	Pk	15.1	-28.8	24.77	43.52	-18.75	0-360	100	H
2	59.973	41.09	Pk	18.5	-30.3	29.29	40	-10.71	0-360	100	V
4	*75.008	43.85	Pk	13.5	-30.1	27.25	40	-12.75	0-360	100	V
6	174.724	34.88	Pk	15	-28.8	21.08	43.52	-22.44	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)  
IC RSS-GEN Clause 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 C63.10.

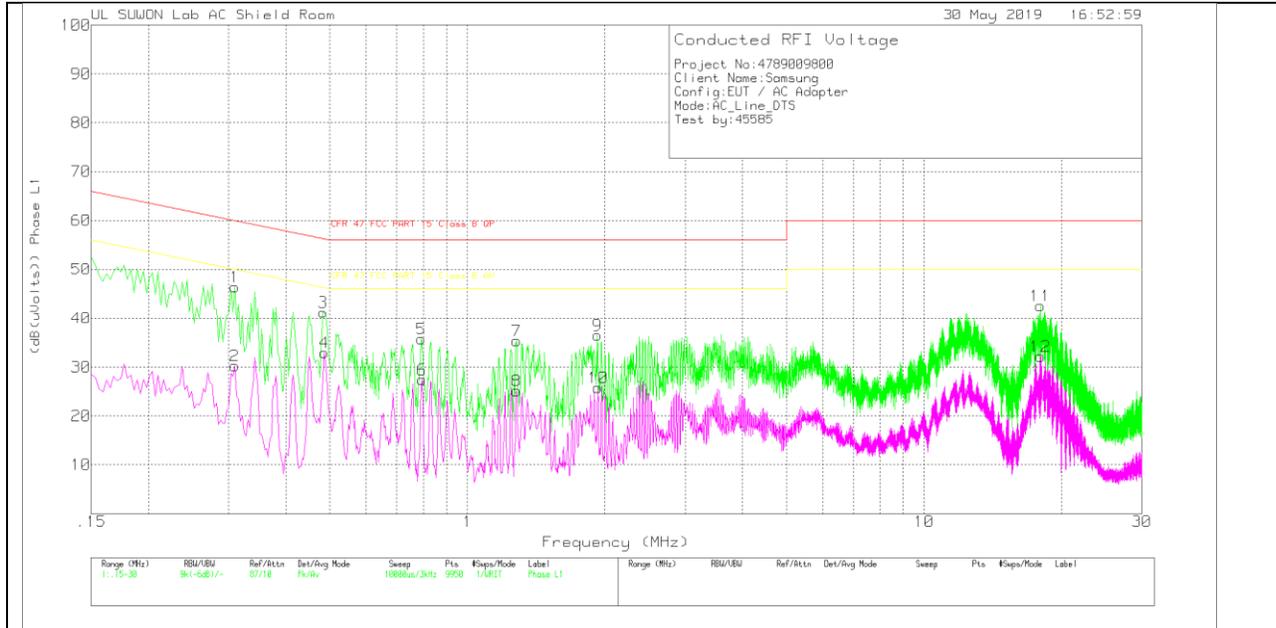
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

**RESULTS**

**WORST EMISSIONS**

**LINE 1 PLOT**



**LINE 1 RESULTS**

**Trace Markers**

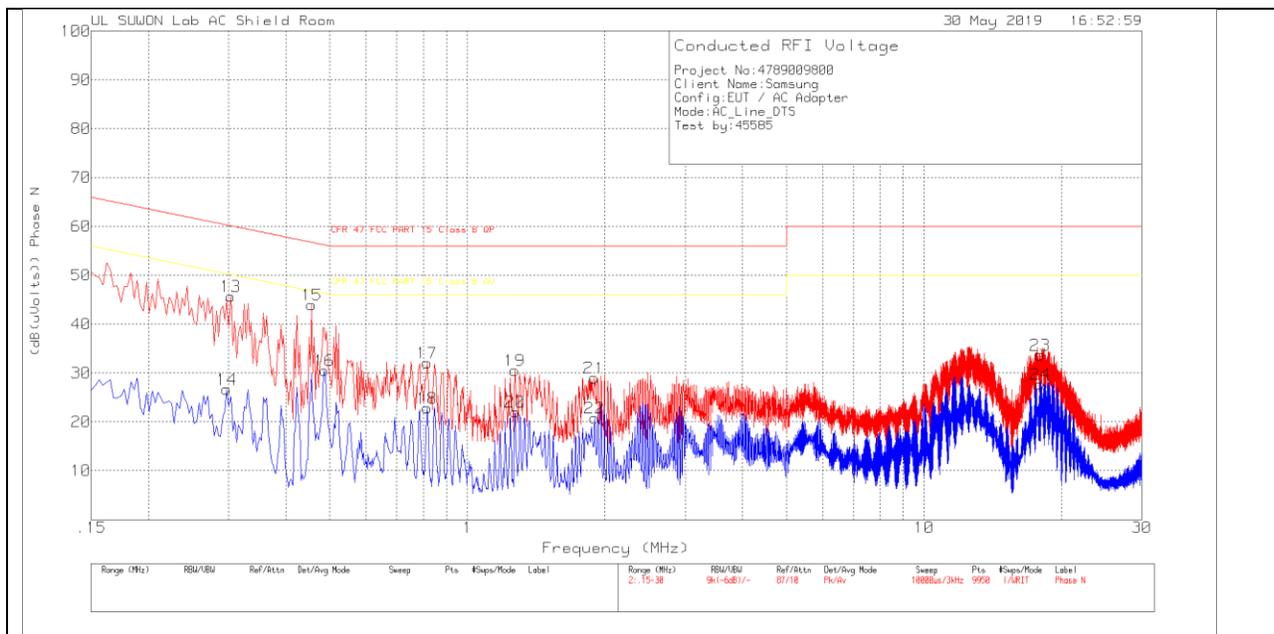
Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_10183 6_With ex-cord_L1	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	.309	36.43	Pk	9.8	.2	46.43	60	-13.57	-	-
2	.309	20.28	Av	9.8	.2	30.28	-	-	50	-19.72
3	.483	31.12	Pk	9.9	.2	41.22	56.29	-15.07	-	-
4	.486	22.88	Av	9.9	.2	32.98	-	-	46.24	-13.26
5	.792	25.66	Pk	9.9	.2	35.76	56	-20.24	-	-
6	.795	17.31	Av	9.9	.2	27.41	-	-	46	-18.59
7	1.281	25.32	Pk	9.8	.3	35.42	56	-20.58	-	-
8	1.281	15.07	Av	9.8	.3	25.17	-	-	46	-20.83
9	1.926	26.41	Pk	9.8	.3	36.51	56	-19.49	-	-
10	1.932	15.68	Av	9.8	.3	25.78	-	-	46	-20.22
11	17.973	31.75	Pk	10.4	.4	42.55	60	-17.45	-	-
12	17.973	21.37	Av	10.4	.4	32.17	-	-	50	-17.83

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	ENV216_10183 6_With ex-cord_N	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	.303	35.77	Pk	9.7	.2	45.67	60.16	-14.49	-	-
14	.297	16.76	Av	9.7	.2	26.66	-	-	50.33	-23.67
15	.456	34.26	Pk	9.5	.2	43.96	56.77	-12.81	-	-
16	.486	20.53	Av	9.8	.2	30.53	-	-	46.24	-15.71
17	.816	22.1	Pk	9.8	.2	32.1	56	-23.9	-	-
18	.816	12.82	Av	9.8	.2	22.82	-	-	46	-23.18
19	1.269	20.45	Pk	9.8	.3	30.55	56	-25.45	-	-
20	1.272	11.92	Av	9.8	.3	22.02	-	-	46	-23.98
21	1.893	19.03	Pk	9.7	.3	29.03	56	-26.97	-	-
22	1.899	10.79	Av	9.7	.3	20.79	-	-	46	-25.21
23	17.943	22.9	Pk	10.4	.4	33.7	60	-26.3	-	-
24	17.979	16.92	Av	10.4	.4	27.72	-	-	50	-22.28

Pk - Peak detector  
 Av - Average detection