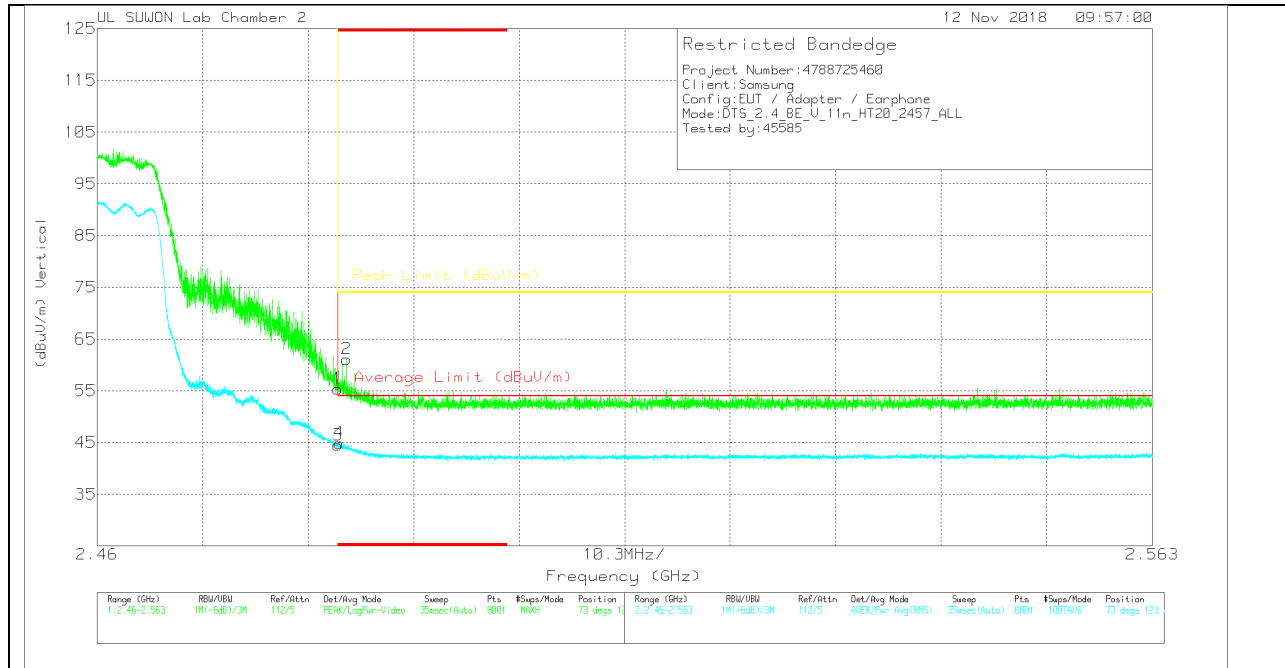


**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(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	* 2.484	44.1	Pk	31.9	-20.6	0	55.4	-	-	74	-18.6	73	123	V
2	* 2.484	49.83	Pk	31.9	-20.6	0	61.13	-	-	74	-12.87	73	123	V
3	* 2.484	33.23	RMS	31.9	-20.6	0	44.53	54	-9.47	-	-	73	123	V
4	* 2.484	33.63	RMS	31.9	-20.6	0	44.93	54	-9.07	-	-	73	123	V

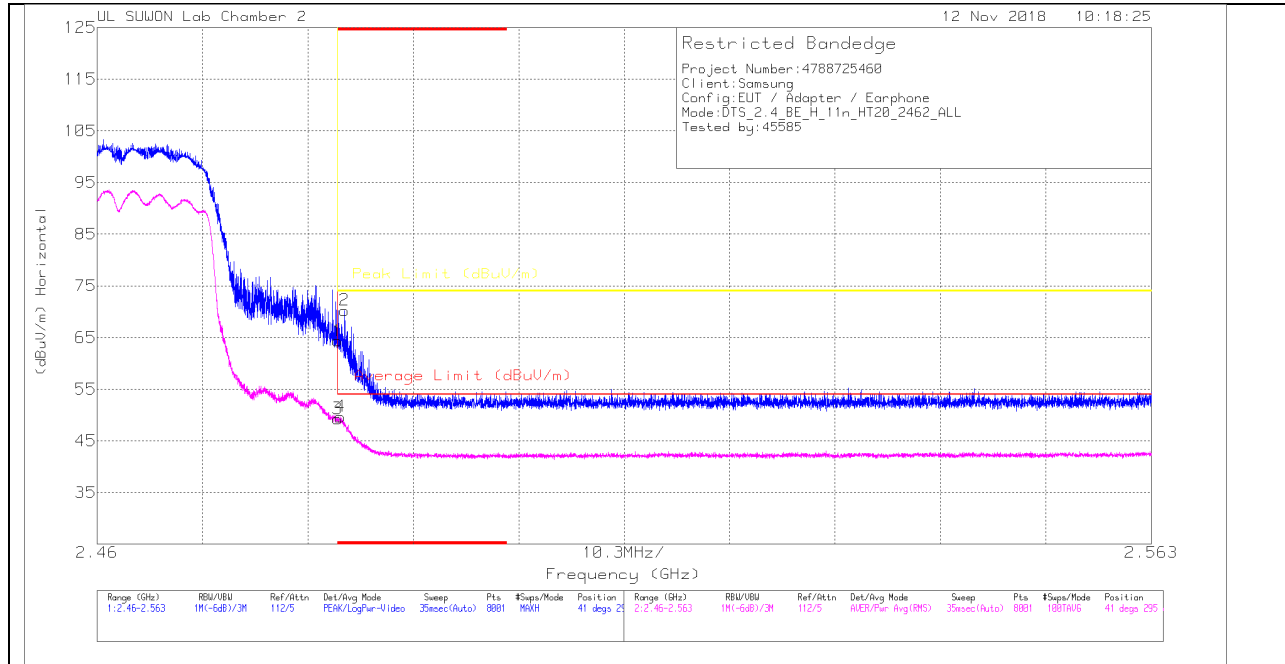
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

### AUTHORIZED BANDEDGE (11 CHANNEL)

#### HORIZONTAL PEAK AND AVERAGE PLOT



#### HORIZONTAL DATA

##### Trace Markers

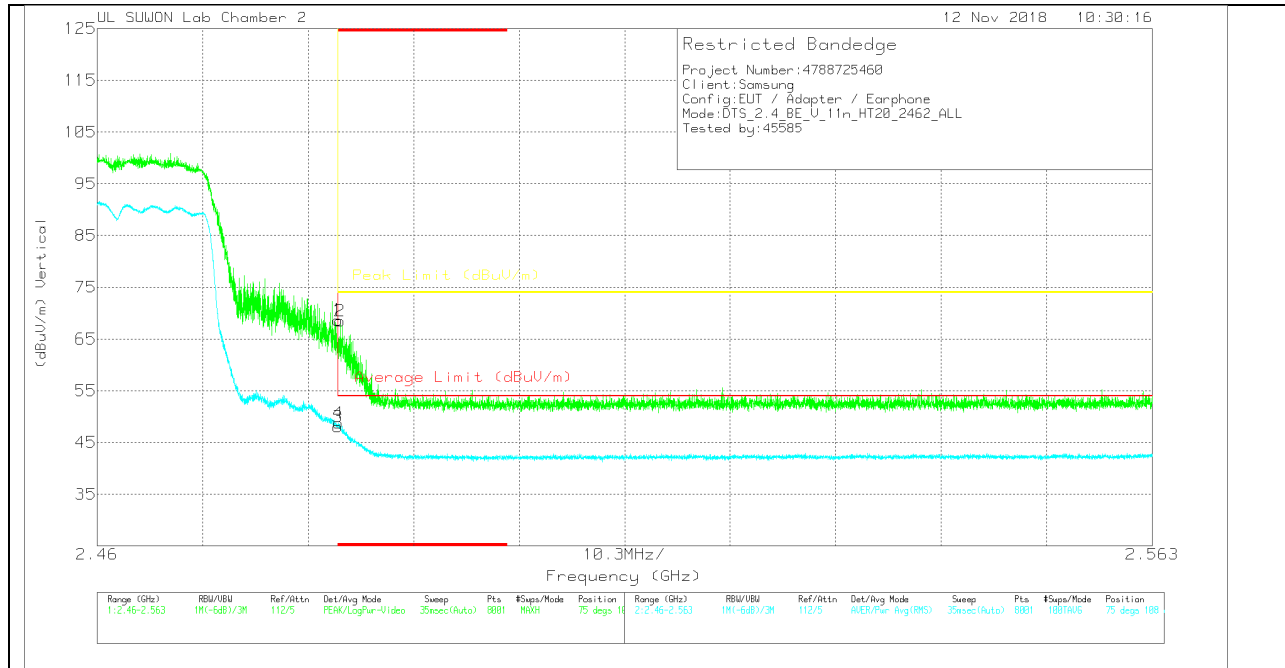
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Pk Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.484	53.03	Pk	31.9	-20.6	0	64.33	-	-	74	-9.67	41	295	H
2	* 2.484	58.96	Pk	31.9	-20.6	0	70.26	-	-	74	-3.74	41	295	H
3	* 2.484	38.01	RMS	31.9	-20.6	0	49.31	54	-4.69	-	-	41	295	H
4	* 2.484	38.39	RMS	31.9	-20.6	0	49.69	54	-4.31	-	-	41	295	H

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

Pk - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(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	* 2.484	57.37	Pk	31.9	-20.6	0	68.67	-	-	74	-5.33	75	108	V
2	* 2.484	57.17	Pk	31.9	-20.6	0	68.47	-	-	74	-5.53	75	108	V
3	* 2.484	36.75	RMS	31.9	-20.6	0	48.05	54	-5.95	-	-	75	108	V
4	* 2.484	37.47	RMS	31.9	-20.6	0	48.77	54	-5.23	-	-	75	108	V

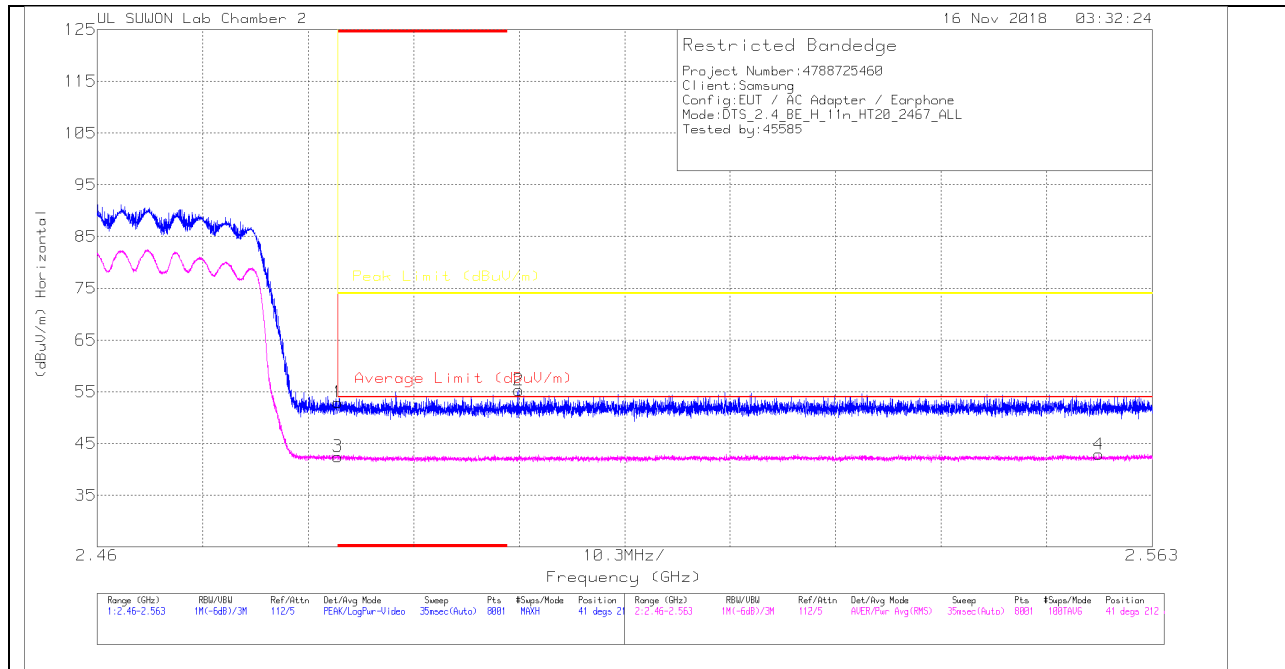
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

**AUTHORIZED BANDEDGE (12 CHANNEL)**

**HORIZONTAL PEAK AND AVERAGE PLOT**



**HORIZONTAL DATA**

Trace Markers

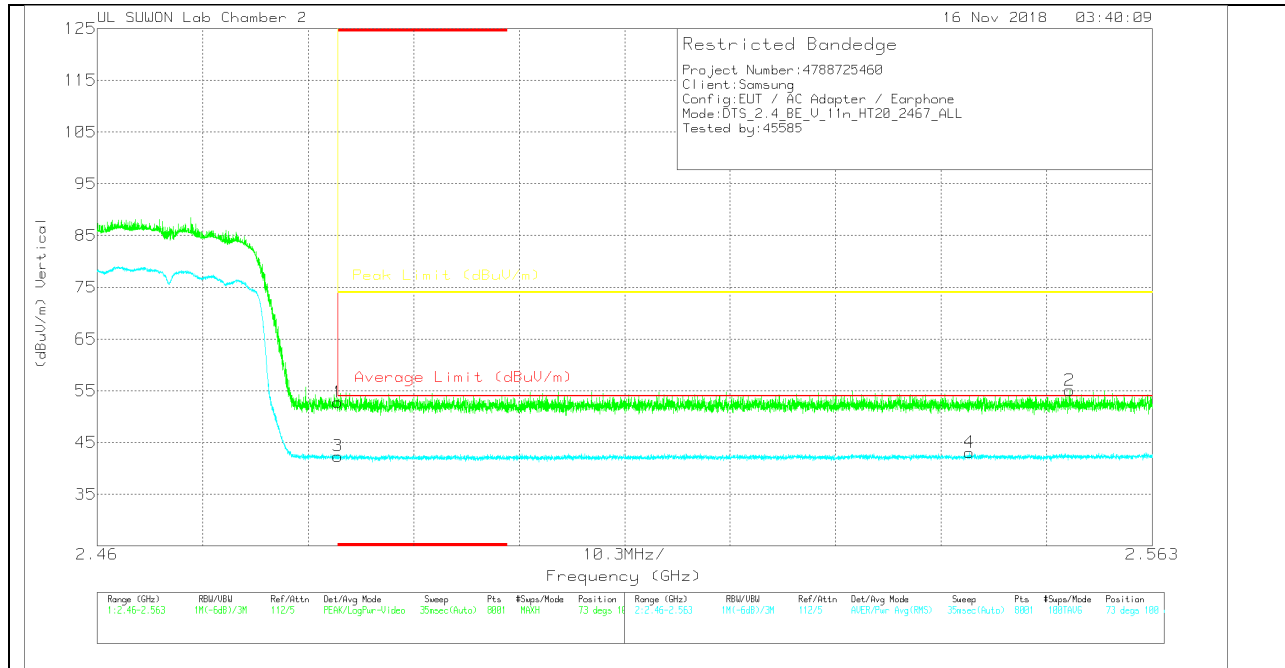
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.67	Pk	31.9	-20.6	0	52.97	-	-	74	-21.03	41	212	H
2	2.501	44	Pk	31.9	-20.6	0	55.3	-	-	74	-18.7	41	212	H
3	* 2.484	31.2	RMS	31.9	-20.6	0	42.5	54	-11.5	-	-	41	212	H
4	2.558	31.42	RMS	32	-20.5	0	42.92	54	-11.08	-	-	41	212	H

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

Pk - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.47	Pk	31.9	-20.6	0	52.77	-	-	74	-21.23	73	100	V
2	2.555	43.59	Pk	32	-20.5	0	55.09	-	-	74	-18.91	73	100	V
3	* 2.484	31.09	RMS	31.9	-20.6	0	42.39	54	-11.61	-	-	73	100	V
4	2.545	31.5	RMS	32	-20.4	0	43.1	54	-10.9	-	-	73	100	V

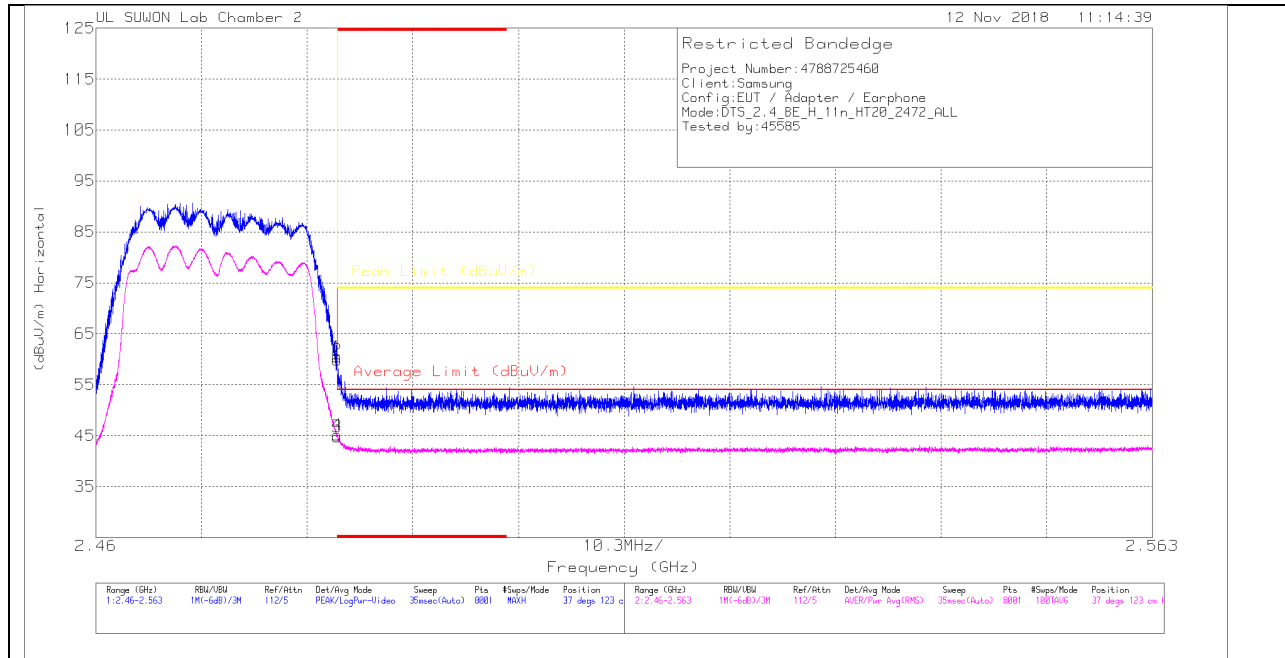
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

**AUTHORIZED BANDEDGE (13 CHANNEL)**

**HORIZONTAL PEAK AND AVERAGE PLOT**



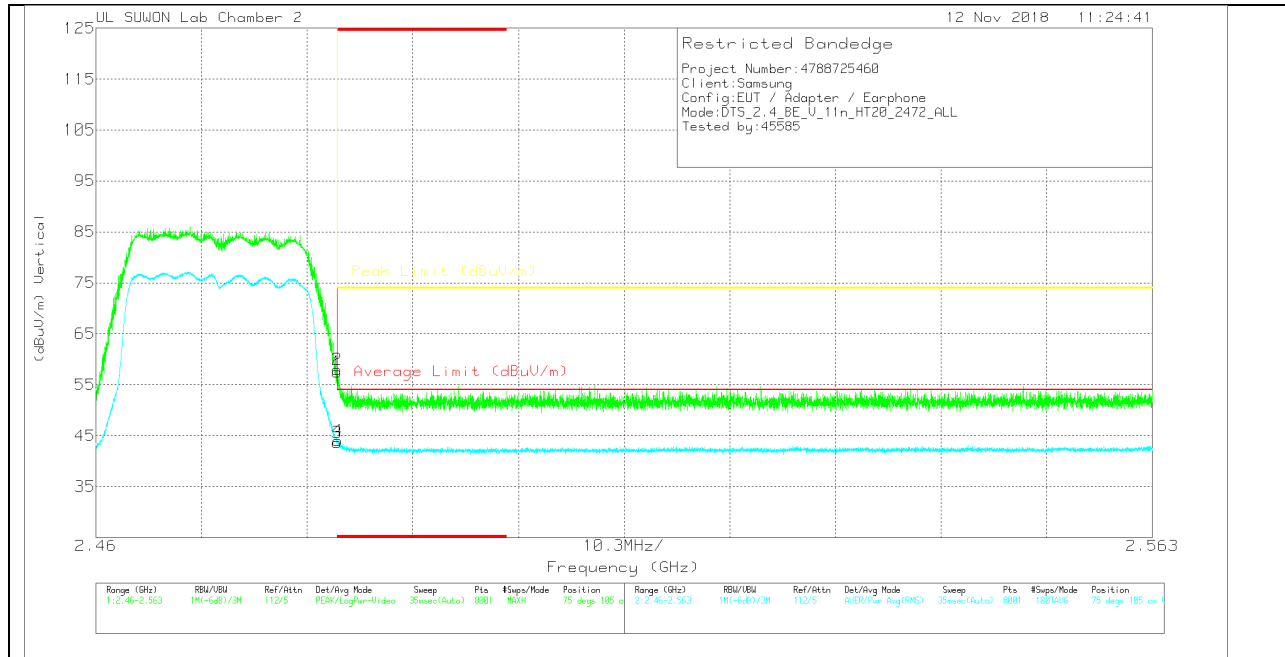
**HORIZONTAL DATA**

**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(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	* 2.484	49.14	Pk	31.9	-20.6	0	60.44	-	-	74	-13.56	37	123	H
2	* 2.484	48.55	Pk	31.9	-20.6	0	59.85	-	-	74	-14.15	37	123	H
3	* 2.484	33.52	RMS	31.9	-20.6	0	44.82	54	-9.18	-	-	37	123	H
4	* 2.484	33.84	RMS	31.9	-20.6	0	45.14	54	-8.86	-	-	37	123	H

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

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(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	* 2.484	46.15	Pk	31.9	-20.6	0	57.45	-	-	74	-16.55	75	105	V
2	* 2.484	46.71	Pk	31.9	-20.6	0	58.01	-	-	74	-15.99	75	105	V
3	* 2.484	32.35	RMS	31.9	-20.6	0	43.65	54	-10.35	-	-	75	105	V
4	* 2.484	32.67	RMS	31.9	-20.6	0	43.97	54	-10.03	-	-	75	105	V

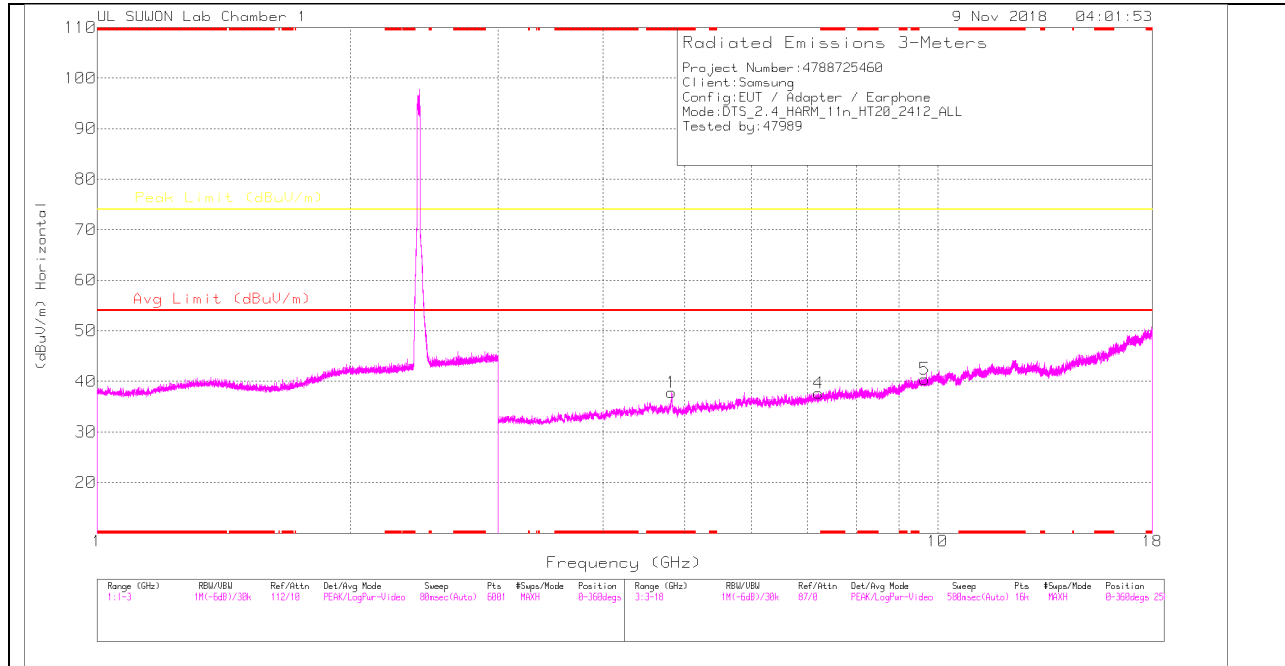
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

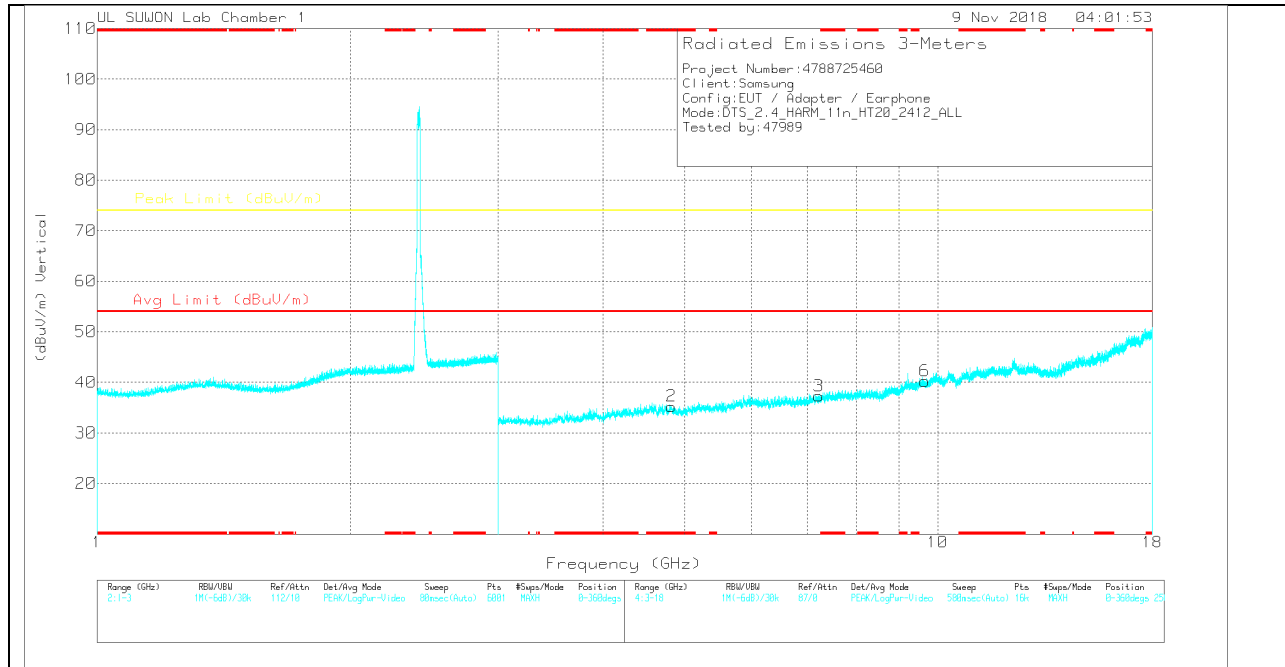
RMS - RMS detection

### 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_00168717	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	* 4.824	34.98	PK	34.2	-31.4	0	37.78	-	-	74	-36.22	0-360	250	H
4	7.214	29.69	PK	35.8	-27.8	0	37.69	-	-	74	-36.31	0-360	250	H
5	9.657	26.74	PK	37.1	-23.4	0	40.44	-	-	74	-33.56	0-360	150	H
2	* 4.821	32.45	PK	34.2	-31.4	0	35.25	-	-	74	-38.75	0-360	150	V
3	7.22	29.29	PK	35.8	-27.8	0	37.29	-	-	74	-36.71	0-360	250	V
6	9.652	26.45	PK	37.1	-23.3	0	40.25	-	-	74	-33.75	0-360	250	V

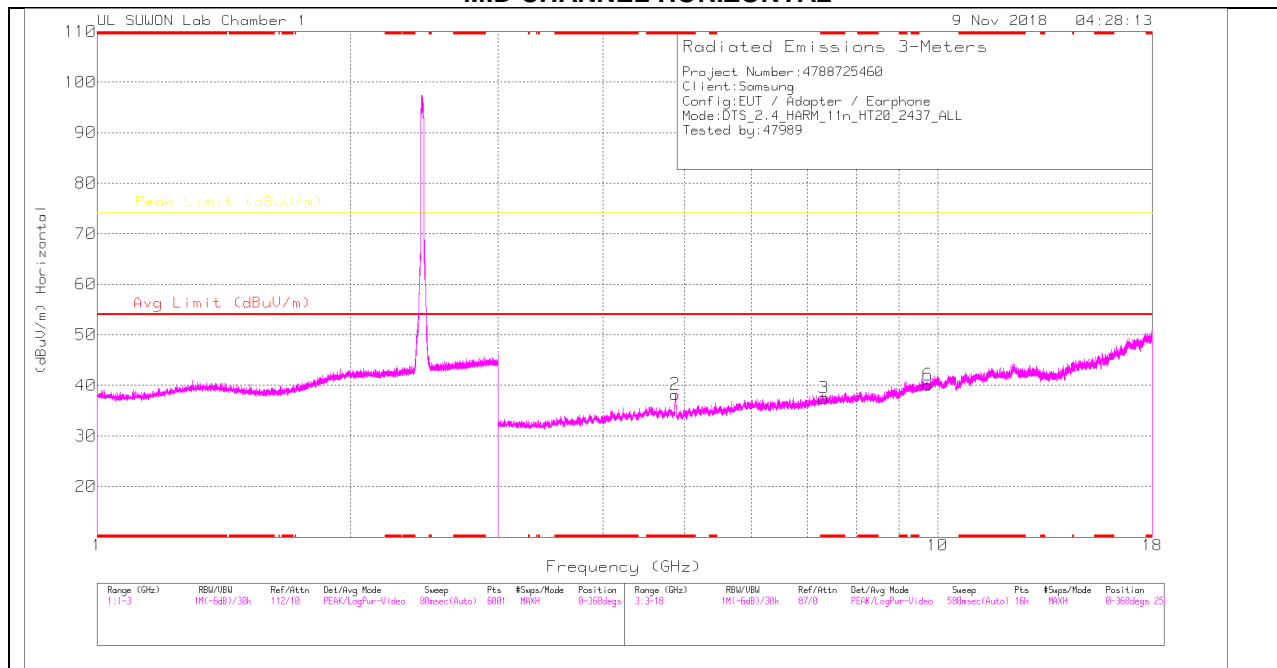
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK – Peak detector

**Radiated Emissions**

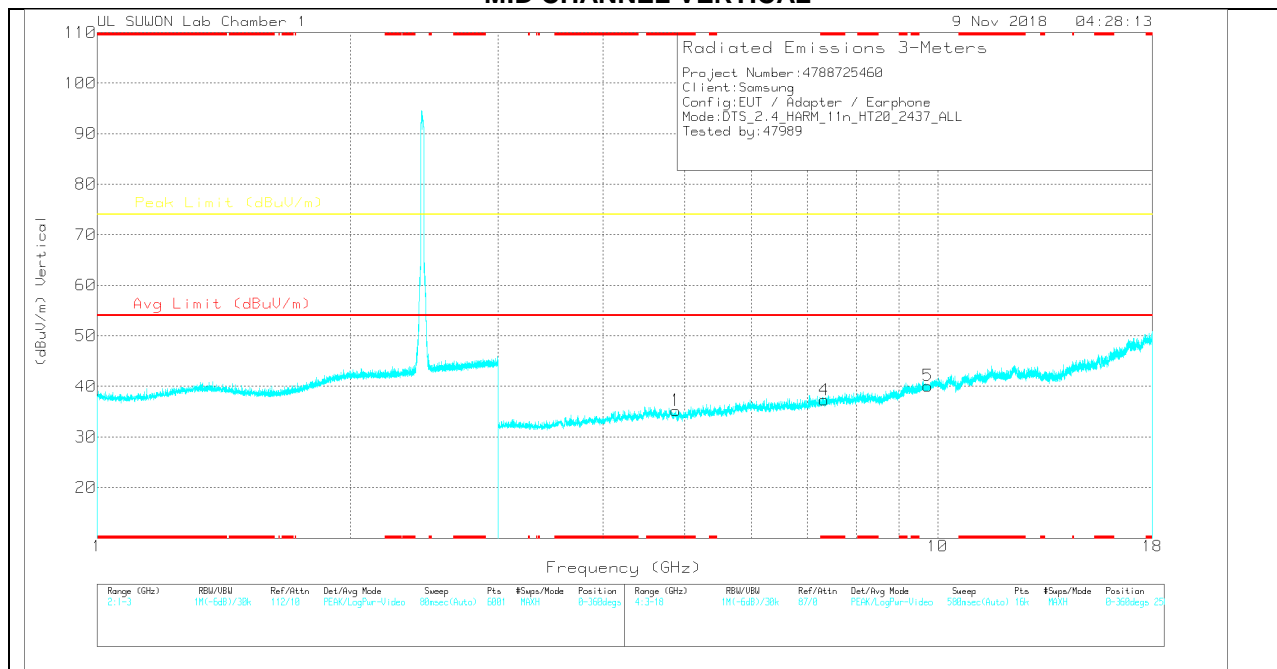
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.826	40.71	PK2	34.2	-31.3	0	43.61	-	-	74	-30.39	179	263	H
* 4.827	32.26	MAv1	34.2	-31.3	0	35.16	54	-18.84	-	-	179	263	H
* 4.826	41.12	PK2	34.2	-31.3	0	44.02	-	-	74	-29.98	123	151	V
* 4.824	29.71	MAv1	34.2	-31.4	0	32.51	54	-21.49	-	-	123	151	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK2 - KDB558074 Method: Maximum Peak  
 MAv1 - KDB558074 Option 1 Maximum RMS Average

### 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_00168717	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
2	* 4.87	35.53	PK	34.2	-31.5	0	38.23	-	-	74	-35.77	0-360	250	H
3	* 7.323	29.01	PK	35.8	-27.3	0	37.51	-	-	74	-36.49	0-360	250	H
6	9.737	26.79	PK	37.2	-23.9	0	40.09	-	-	74	-33.91	0-360	150	H
1	* 4.884	32.52	PK	34.2	-31.5	0	35.22	-	-	74	-38.78	0-360	250	V
4	* 7.323	28.81	PK	35.8	-27.3	0	37.31	-	-	74	-36.69	0-360	150	V
5	9.736	26.81	PK	37.2	-23.9	0	40.11	-	-	74	-33.89	0-360	250	V

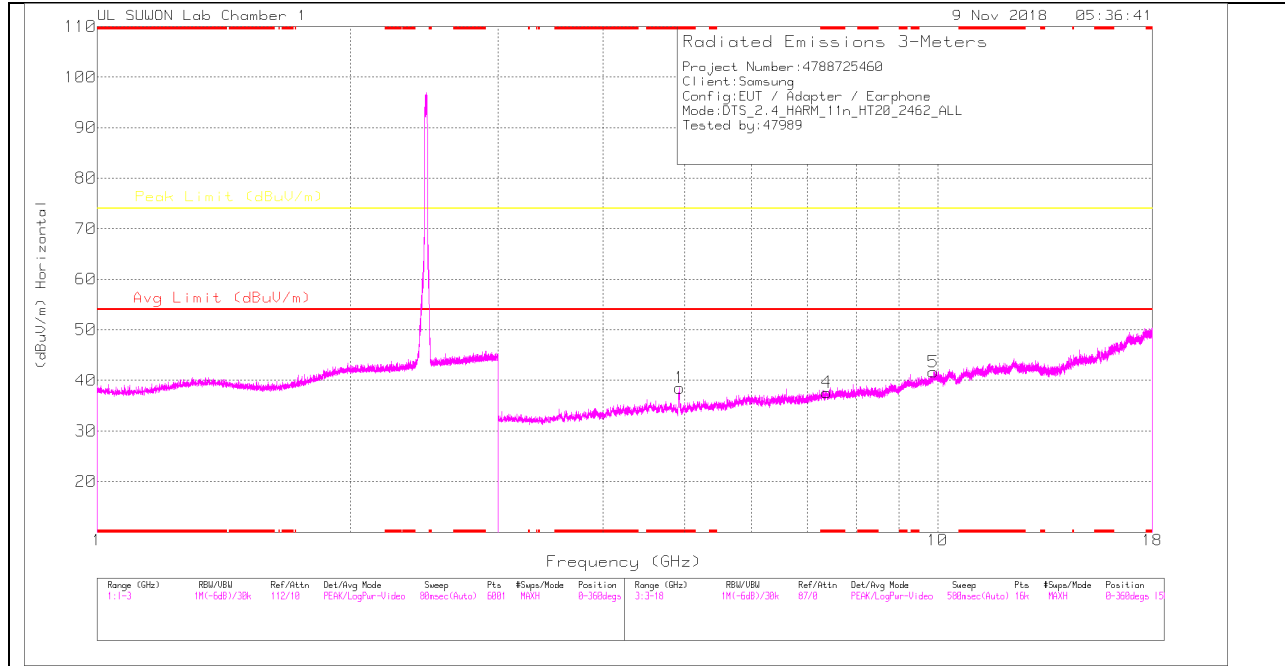
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK – Peak detector

**Radiated Emissions**

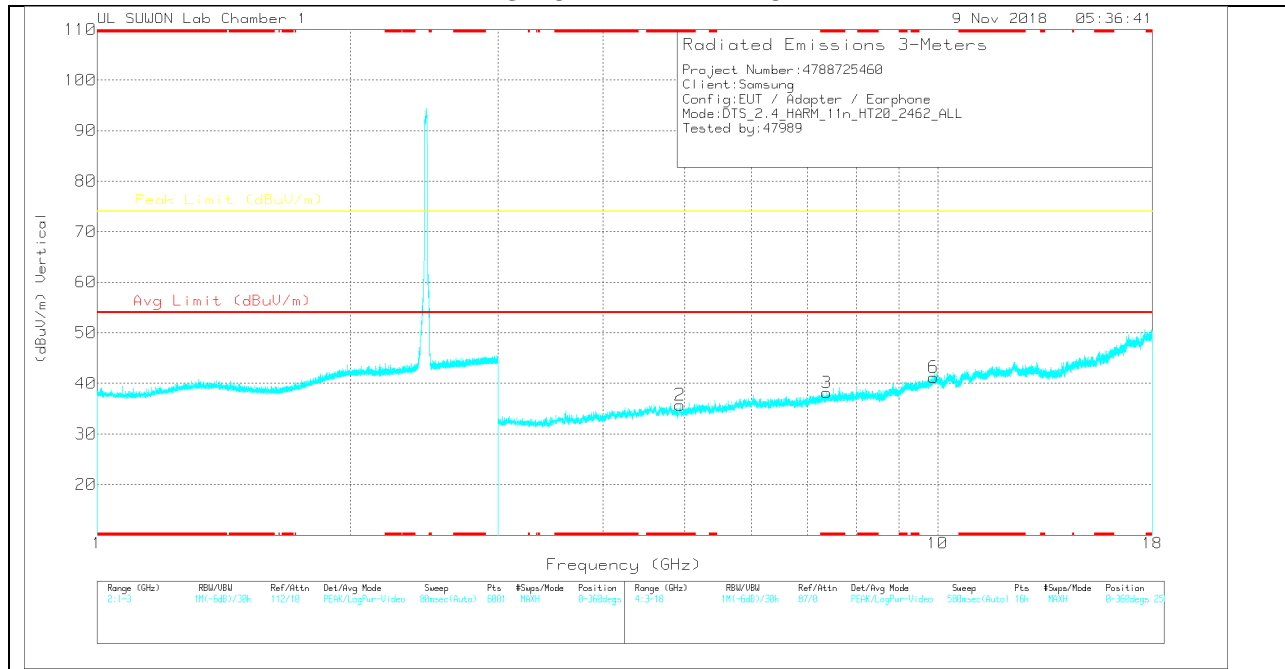
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.876	45.97	PK2	34.2	-31.5	0	48.67	-	-	74	-25.33	192	240	H
* 4.876	33.66	MAv1	34.2	-31.5	0	36.36	54	-17.64	-	-	192	240	H
* 4.872	42.47	PK2	34.2	-31.5	0	45.17	-	-	74	-28.83	122	136	V
* 4.875	30.22	MAv1	34.2	-31.5	0	32.92	54	-21.08	-	-	122	136	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_00168717	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	* 4.931	35.9	PK	34.2	-31.6	0	38.5	-	-	74	-35.5	0-360	250	H
4	* 7.375	28.8	PK	35.8	-27	0	37.6	-	-	74	-36.4	0-360	150	H
5	9.88	26.93	PK	37.4	-22.7	0	41.63	-	-	74	-32.37	0-360	150	H
2	* 4.937	33.01	PK	34.2	-31.5	0	35.71	-	-	74	-38.29	0-360	150	V
3	* 7.375	29.35	PK	35.8	-27	0	38.15	-	-	74	-35.85	0-360	150	V
6	9.885	26.4	PK	37.4	-22.6	0	41.2	-	-	74	-32.8	0-360	250	V

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

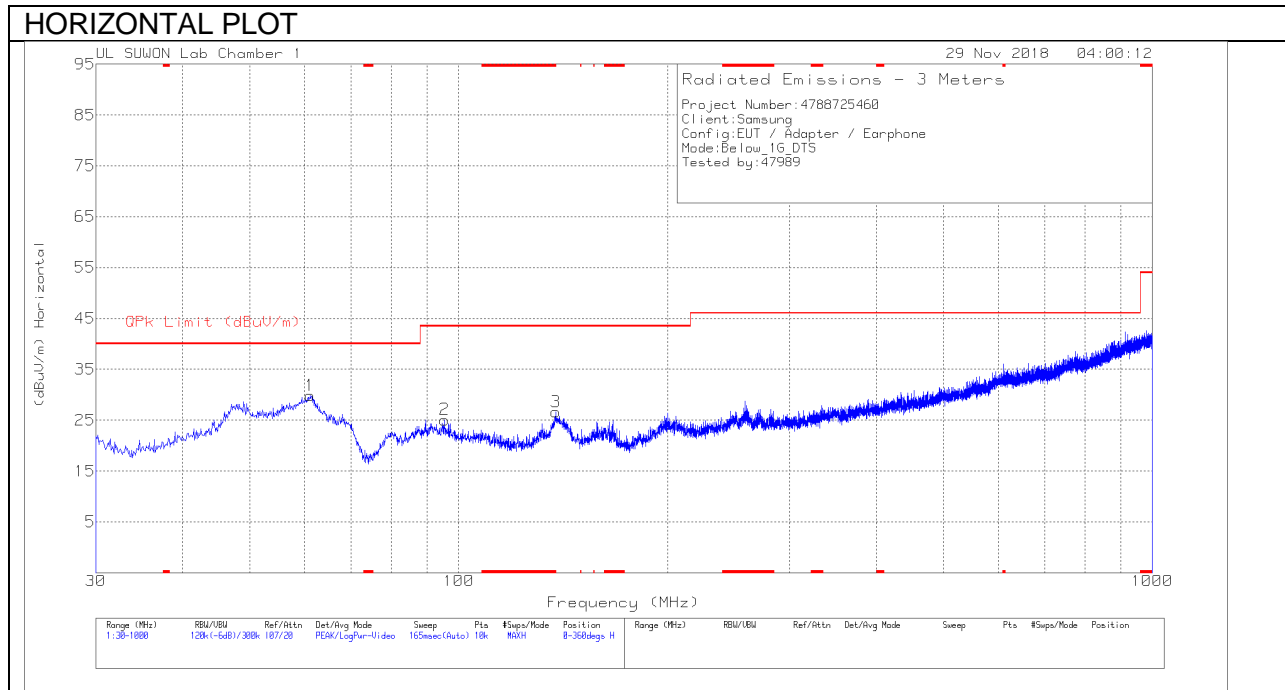
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	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
* 4.925	45.29	PK2	34.2	-31.6	0	47.89	-	-	74	-26.11	186	237	H
* 4.924	32.67	MAv1	34.2	-31.6	0	35.27	54	-18.73	-	-	186	237	H
* 4.925	42.92	PK2	34.2	-31.5	0	45.62	-	-	74	-28.38	126	108	V
* 4.925	29.96	MAv1	34.2	-31.6	0	32.56	54	-21.44	-	-	126	108	V

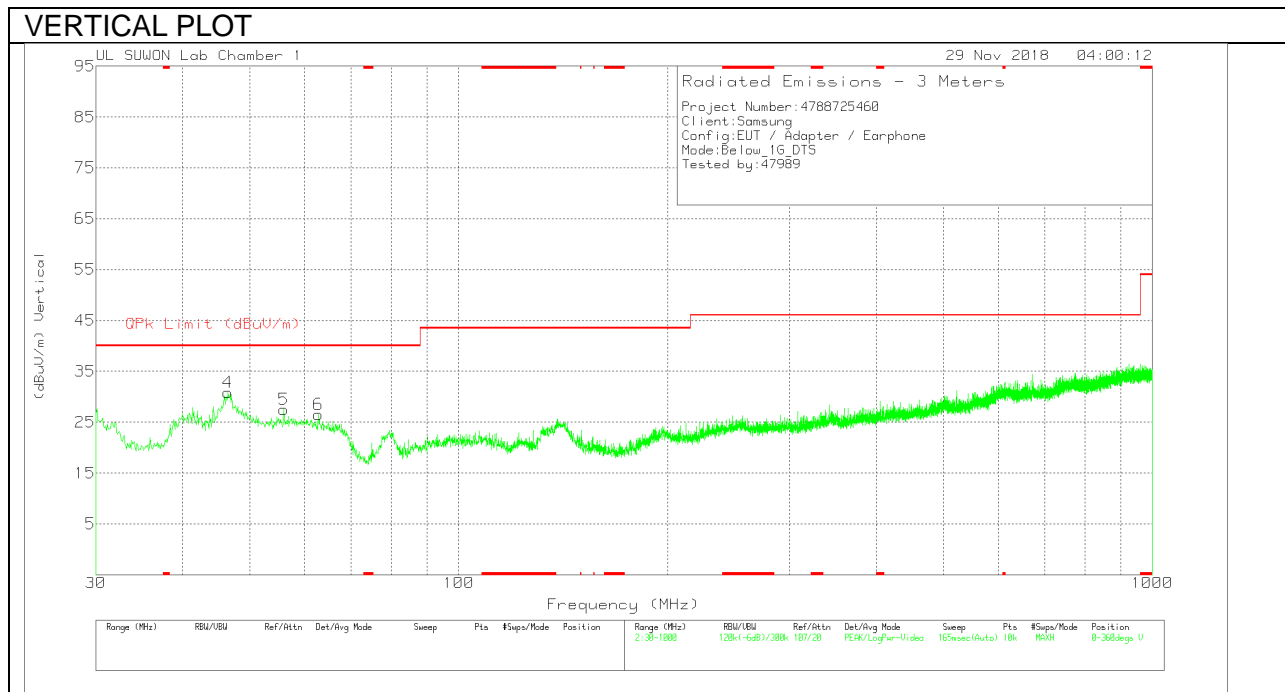
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK2 - KDB558074 Method: Maximum Peak  
 MAv1 - KDB558074 Option 1 Maximum RMS Average

### 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	61.137	41.86	Pk	18.3	-30.3	29.86	40	-10.14	0-360	400	H
2	95.378	37.59	Pk	17.3	-29.8	25.09	43.52	-18.43	0-360	300	H
3	138.058	41.58	Pk	14.2	-29.2	26.58	43.52	-16.94	0-360	200	H
4	46.49	41.69	Pk	19.7	-30.5	30.89	40	-9.11	0-360	100	V
5	55.996	38.72	Pk	19.2	-30.4	27.52	40	-12.48	0-360	400	V
6	62.786	38.94	Pk	17.9	-30.3	26.54	40	-13.46	0-360	100	V

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.

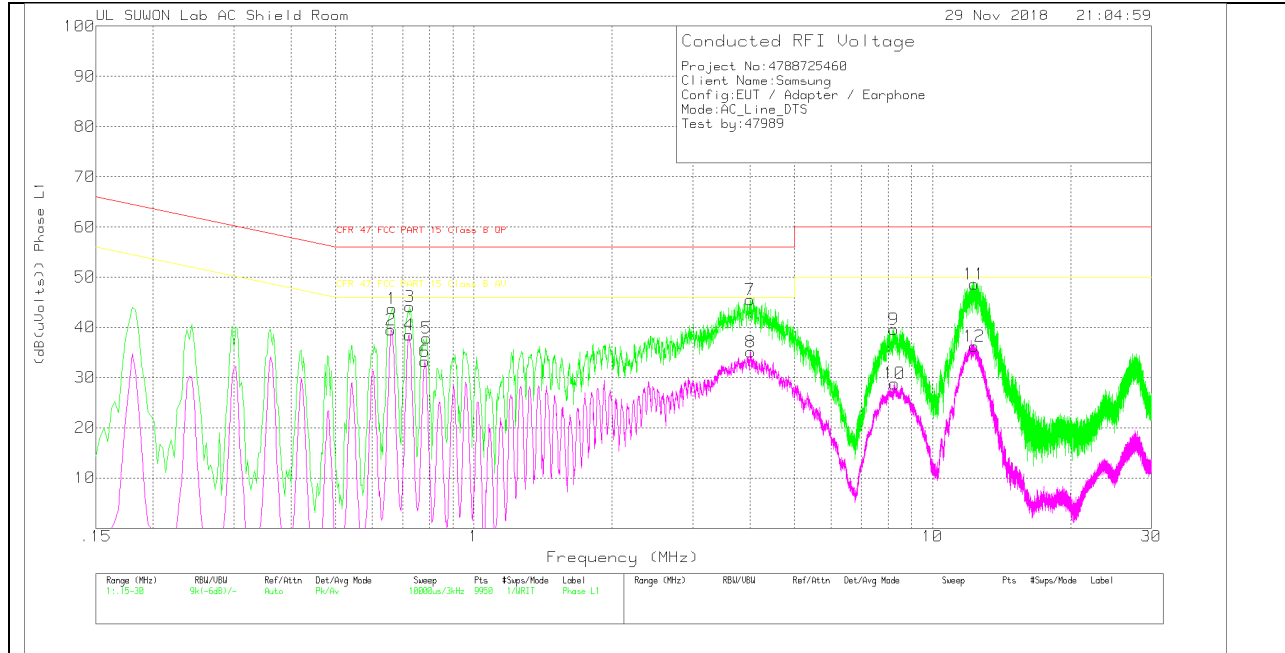
Line conducted data is recorded for both NEUTRAL and HOT lines.



**RESULTS**

**WORST EMISSIONS**

**LINE 1 PLOT**



## LINE 1 RESULTS

### Trace Markers

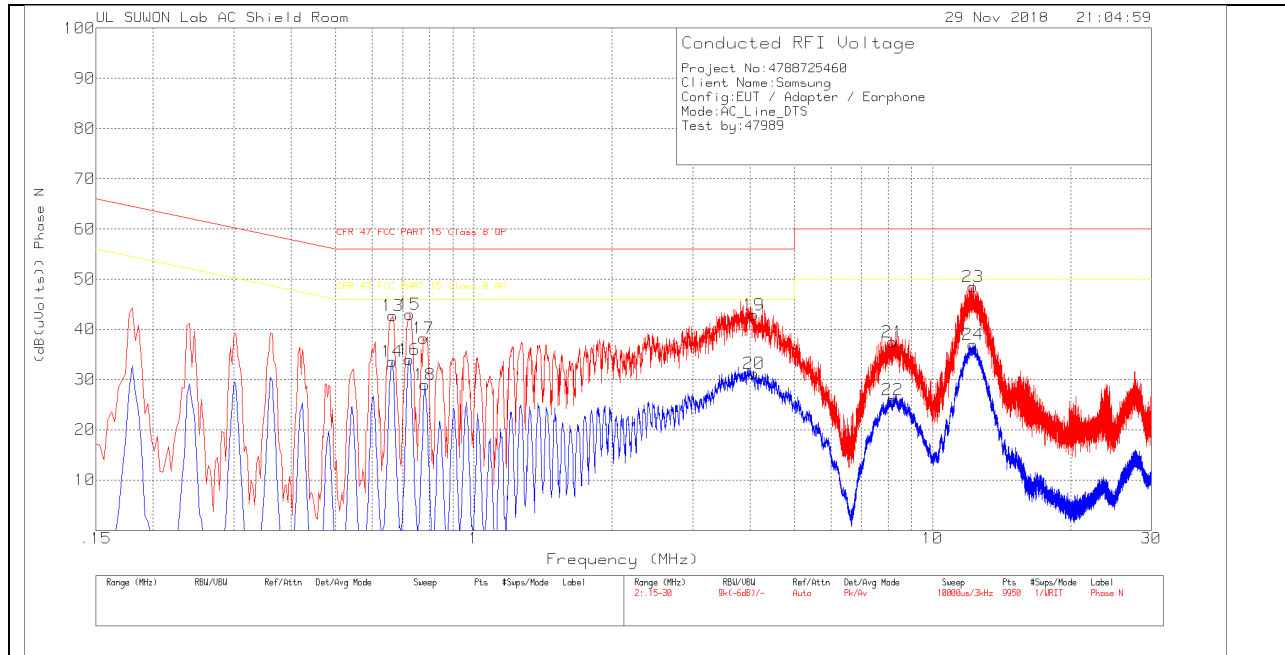
Range 1: Phase L1 .15 - 30MHz

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	.6645	33.67	Pk	9.9	.2	43.77	56	-12.23	-	-
2	.66	29.38	Av	9.9	.2	39.48	-	-	46	-6.52
3	.726	33.98	Pk	9.9	.2	44.08	56	-11.92	-	-
4	.723	28.33	Av	9.9	.2	38.43	-	-	46	-7.57
5	.789	27.8	Pk	9.9	.2	37.9	56	-18.1	-	-
6	.783	23.09	Av	9.9	.2	33.19	-	-	46	-12.81
7	4.002	35.38	Pk	9.8	.3	45.48	56	-10.52	-	-
8	4.017	24.99	Av	9.8	.3	35.09	-	-	46	-10.91
9	8.229	29.36	Pk	9.9	.3	39.56	60	-20.44	-	-
10	8.256	18.59	Av	9.9	.3	28.79	-	-	50	-21.21
11	12.339	38.21	Pk	10.1	.3	48.61	60	-11.39	-	-
12	12.336	25.87	Av	10.1	.3	36.27	-	-	50	-13.73

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	.666	32.59	Pk	9.9	.2	42.69	56	-13.31	-	-
14	.663	23.55	Av	9.9	.2	33.65	-	-	46	-12.35
15	.726	32.91	Pk	9.9	.2	43.01	56	-12.99	-	-
16	.723	23.88	Av	9.9	.2	33.98	-	-	46	-12.02
17	.777	28.28	Pk	9.8	.2	38.28	56	-17.72	-	-
18	.783	18.92	Av	9.8	.2	28.92	-	-	46	-17.08
19	4.083	32.71	Pk	9.8	.3	42.81	56	-13.19	-	-
20	4.083	21.13	Av	9.8	.3	31.23	-	-	46	-14.77
21	8.193	27.23	Pk	9.9	.3	37.43	60	-22.57	-	-
22	8.193	15.75	Av	9.9	.3	25.95	-	-	50	-24.05
23	12.267	38.13	Pk	10.1	.3	48.53	60	-11.47	-	-
24	12.261	26.54	Av	10.1	.3	36.94	-	-	50	-13.06

Pk - Peak detector

Av - Average detection