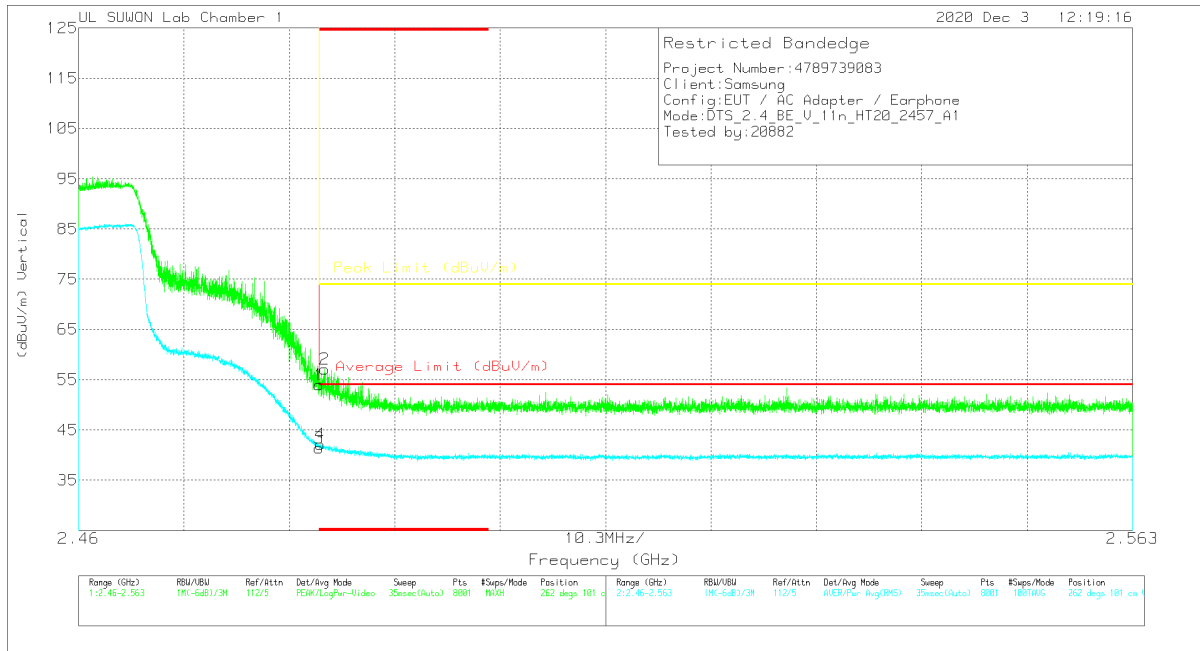


VERTICAL RESULT



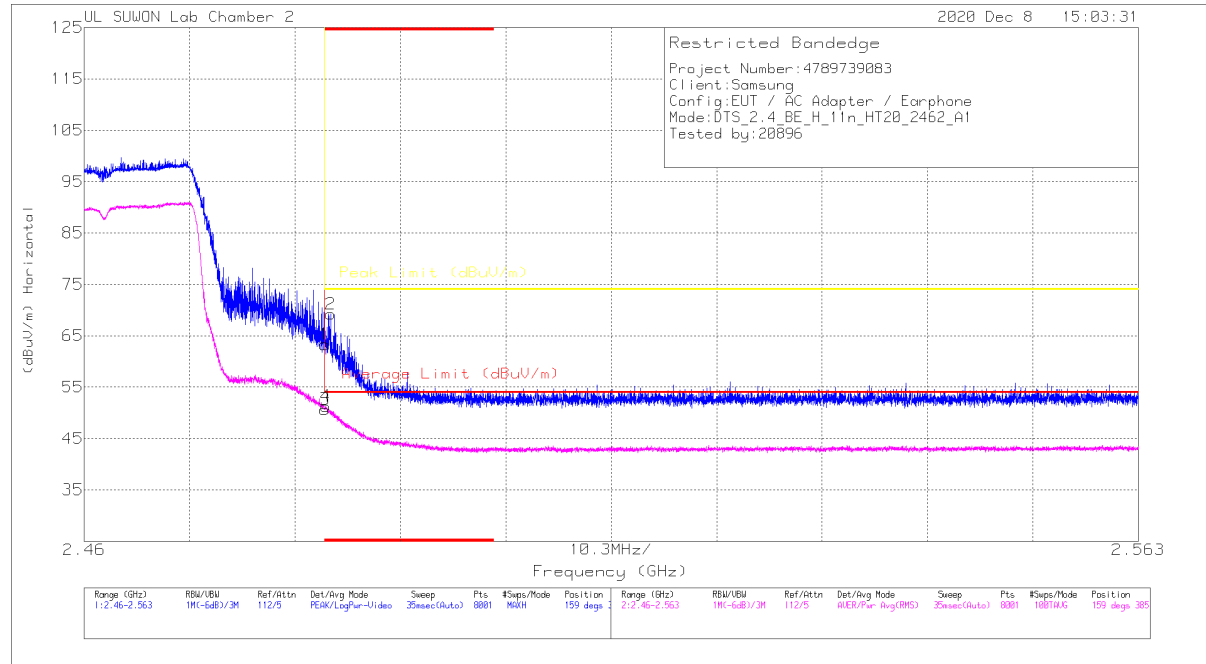
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Cor (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.48351	47.24	PK	32	-25.3	0	53.94	-	-	74	-20.06	262	101	V
2	* 2.48402	50.43	PK	32	-25.3	0	57.13	-	-	74	-16.87	262	101	V
3	* 2.48351	34.57	RMS	32	-25.3	.17	41.44	54	-12.56	-	-	262	101	V
4	* 2.48363	35.28	RMS	32	-25.3	.17	42.15	54	-11.85	-	-	262	101	V

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

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT

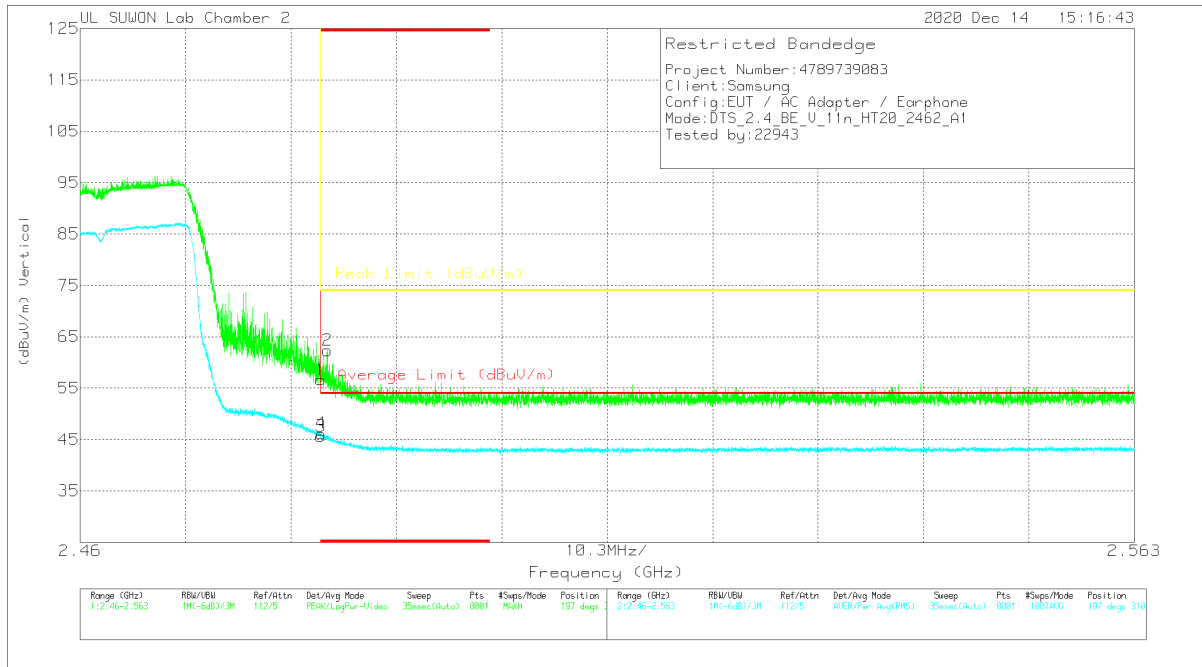


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[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	* 2.48351	51.52	PK	32	-20.2	0	63.32	-	-	74	-10.68	159	385	H
2	* 2.48408	57.42	PK	32	-20.2	0	69.22	-	-	74	-4.78	159	385	H
3	* 2.48351	38.72	RMS	32	-20.2	17	50.69	54	-3.31	-	-	159	385	H
4	* 2.48359	39.32	RMS	32	-20.2	17	51.29	54	-2.71	-	-	159	385	H

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

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meas Reading (dBuV)	Det	3117_00168724	10dB_ATT(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	* 2.48351	44.81	PK	32	-20.2	0	56.61	-	-	74	-17.39	197	310	V
2	* 2.48415	50.54	PK	32	-20.2	0	62.34	-	-	74	-11.66	197	310	V
3	* 2.48351	33.69	RMS	32	-20.2	-17	45.66	54	-8.34	-	-	197	310	V
4	* 2.48355	34.21	RMS	32	-20.2	-17	46.18	54	-7.82	-	-	197	310	V

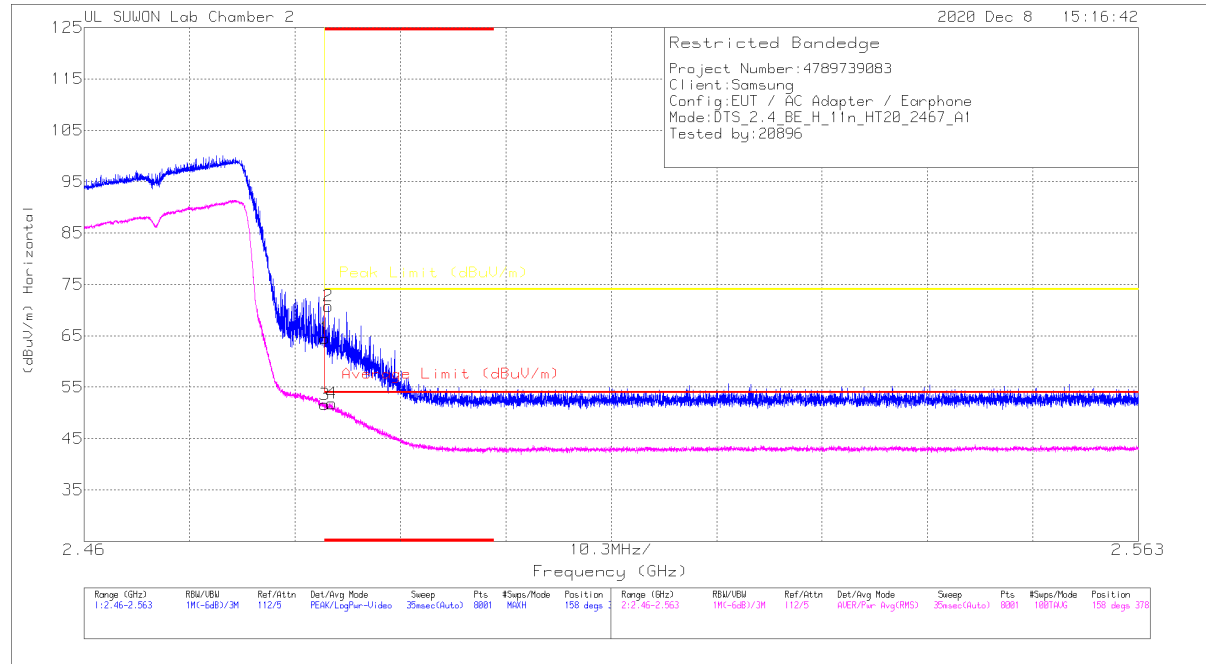
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 12)

HORIZONTAL RESULT

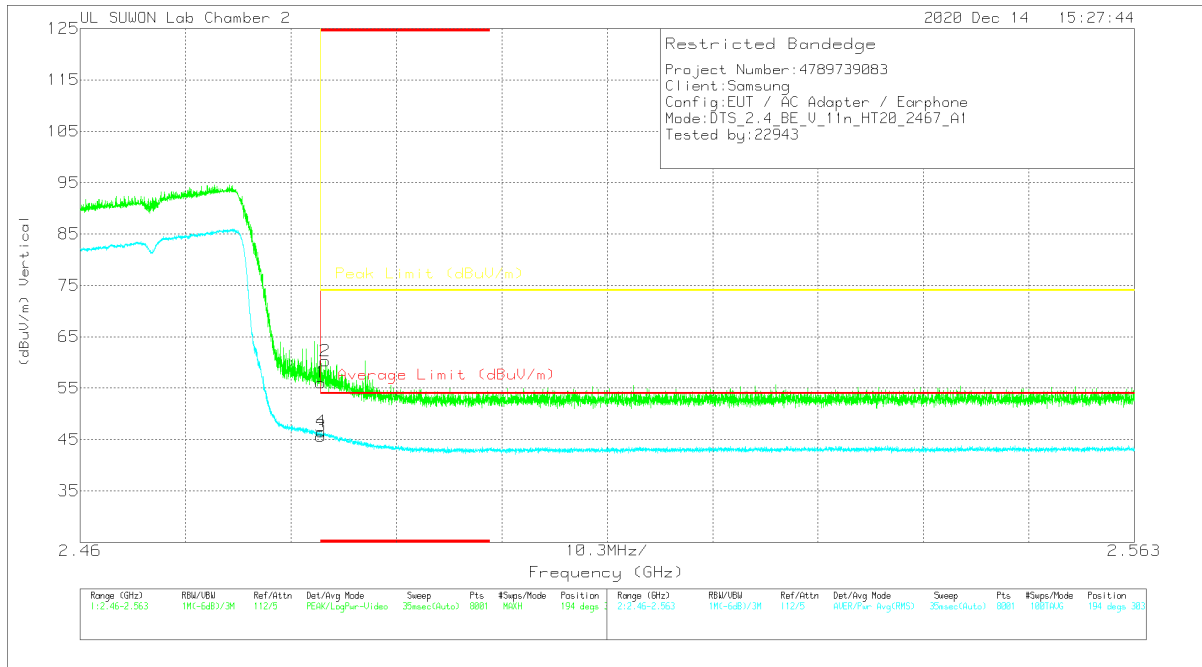


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[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	* 2.48351	52.69	PK	32	-20.2	0	64.49	-	-	74	-9.51	158	378	H
2	* 2.48383	58.97	PK	32	-20.2	0	70.77	-	-	74	-3.23	158	378	H
3	* 2.48351	39.64	RMS	32	-20.2	17	51.61	54	-2.39	-	-	158	378	H
4	* 2.48419	39.87	RMS	32	-20.2	17	51.84	54	-2.16	-	-	158	378	H

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

VERTICAL RESULT



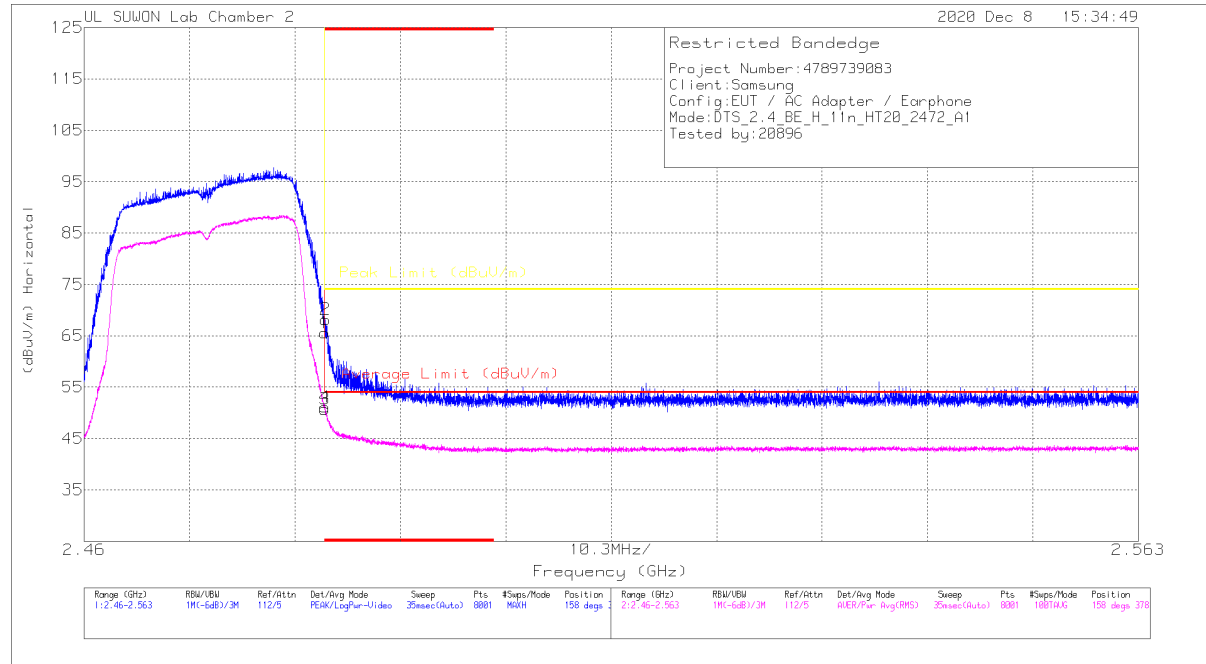
Trace Markers

Marker	Frequency (GHz)	Meas Reading (dBuV)	Det	3117_00168724	10dB_ATT(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	* 2.48351	44.29	PK	32	-20.2	0	56.09	-	-	74	-17.91	194	303	V
2	* 2.48395	45.49	PK	32	-20.2	0	60.29	-	-	74	-13.71	194	303	V
3	* 2.48351	33.7	RMS	32	-20.2	-17	45.67	54	-8.33	-	-	194	303	V
4	* 2.48355	34.56	RMS	32	-20.2	-17	46.53	54	-7.47	-	-	194	303	V

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

BANDEDGE (HIGH CHANNEL, CH 13)

HORIZONTAL RESULT

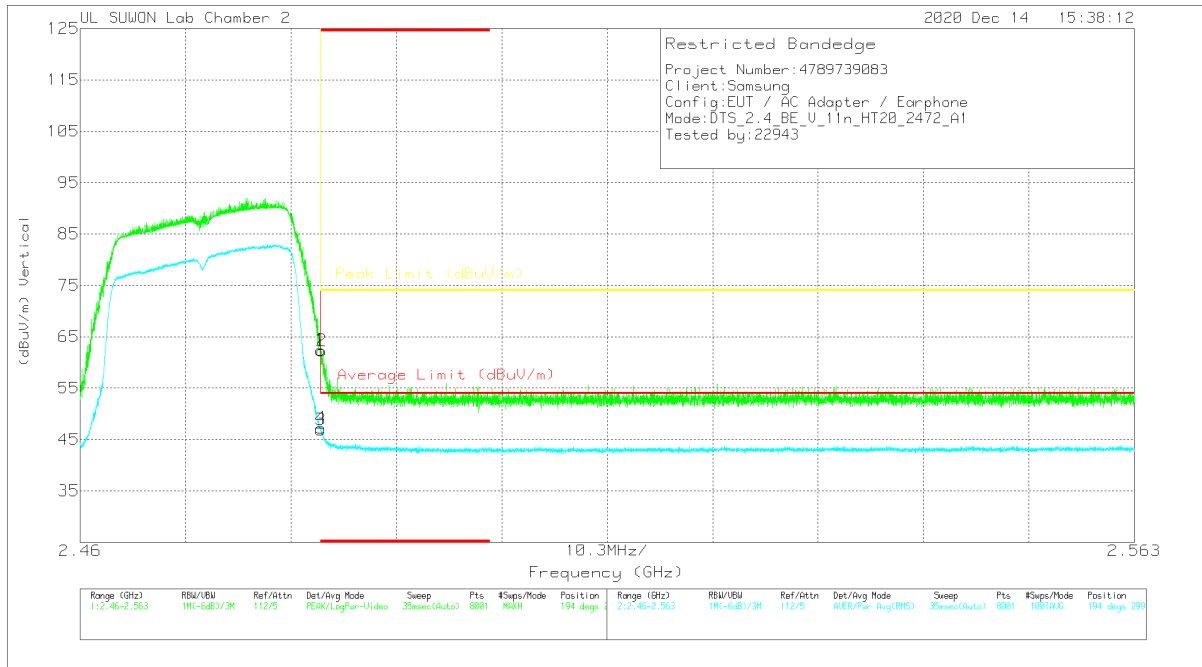


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[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	53.8	PK	32	-20.2	0	65.6	-	-	74	-8.4	158	378	H
2	* 2.48357	56.38	PK	32	-20.2	0	68.18	-	-	74	-5.82	158	378	H
3	* 2.48351	38.77	RMS	32	-20.2	17	50.74	54	-3.26	-	-	158	378	H
4	* 2.48352	39.16	RMS	32	-20.2	17	51.13	54	-2.87	-	-	158	378	H

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

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meas Reading (dBuV)	Det	3117_00168724	10dB_ATT(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	* 2.48351	50.62	PK	32	-20.2	0	62.42	-	-	74	-11.58	194	299	V
2	* 2.4836	50.49	PK	32	-20.2	0	62.29	-	-	74	-11.71	194	299	V
3	* 2.48351	34.97	RMS	32	-20.2	-17	46.94	54	-7.06	-	-	194	299	V
4	* 2.48352	35.28	RMS	32	-20.2	-17	47.25	54	-6.75	-	-	194	299	V

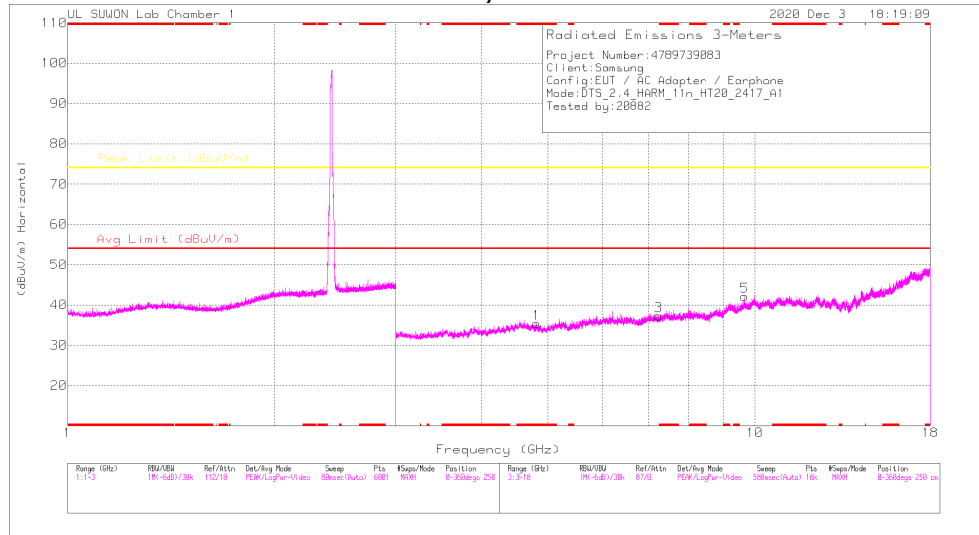
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

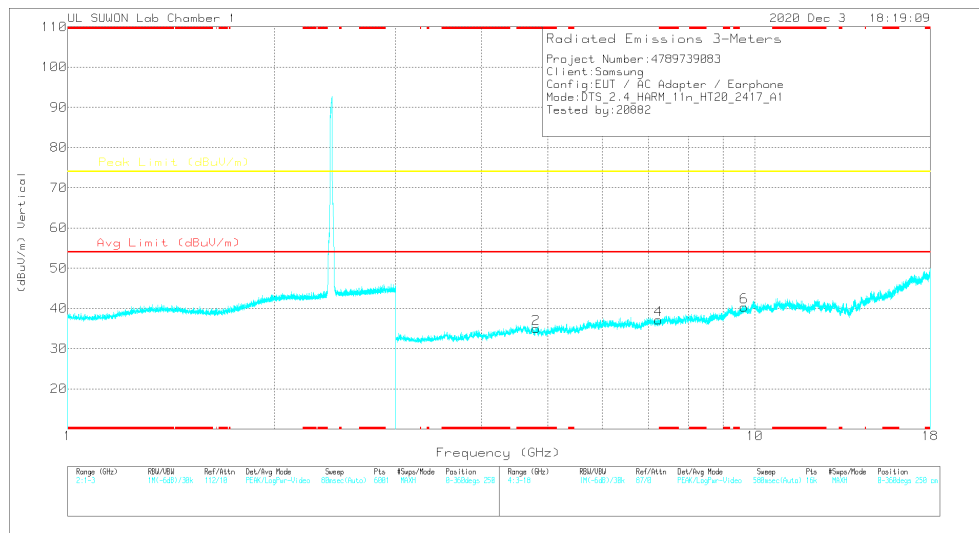
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 2 RESULTS



HORIZONTAL



VERTICAL

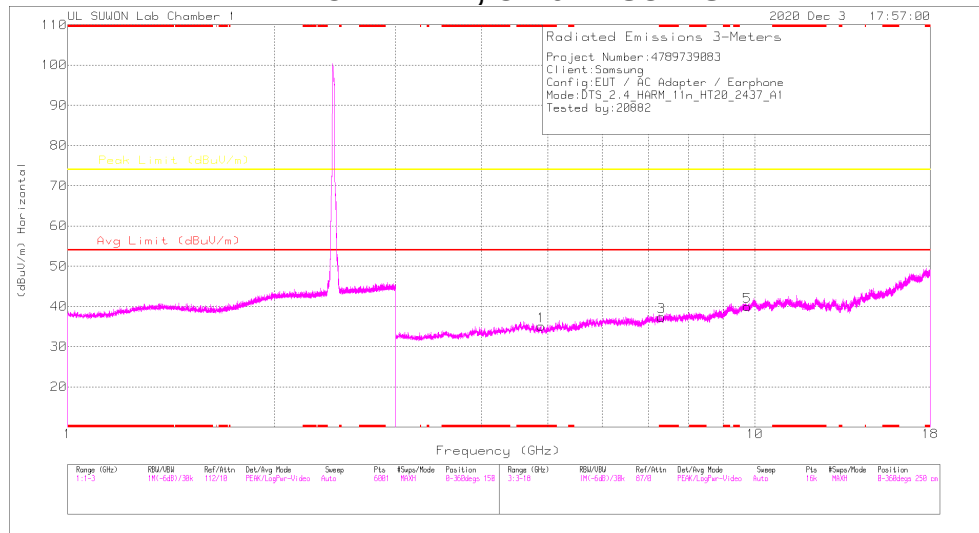
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

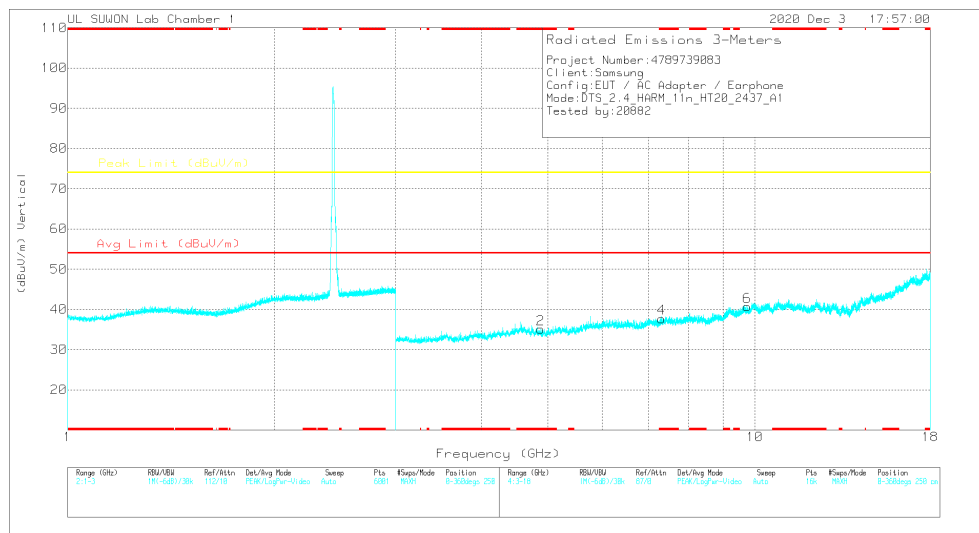
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.81177	41.86	PK2	34.1	-31.4	0	44.56	-	-	74	-29.44	360	100	H
* 4.80981	42.26	PK2	34.1	-31.5	0	44.86	-	-	74	-29.14	360	100	V
7.24973	37.57	PK2	35.8	-27.5	0	45.87	-	-	74	-28.13	360	100	H
7.24904	37.39	PK2	35.8	-27.5	0	45.69	-	-	74	-28.31	360	100	V
9.66789	32.26	PK2	37.3	-23.3	0	46.26	-	-	74	-27.74	360	100	H
9.66992	32.46	PK2	37.3	-23.3	0	46.46	-	-	74	-27.54	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak

MID CHANNEL, CH 6 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.

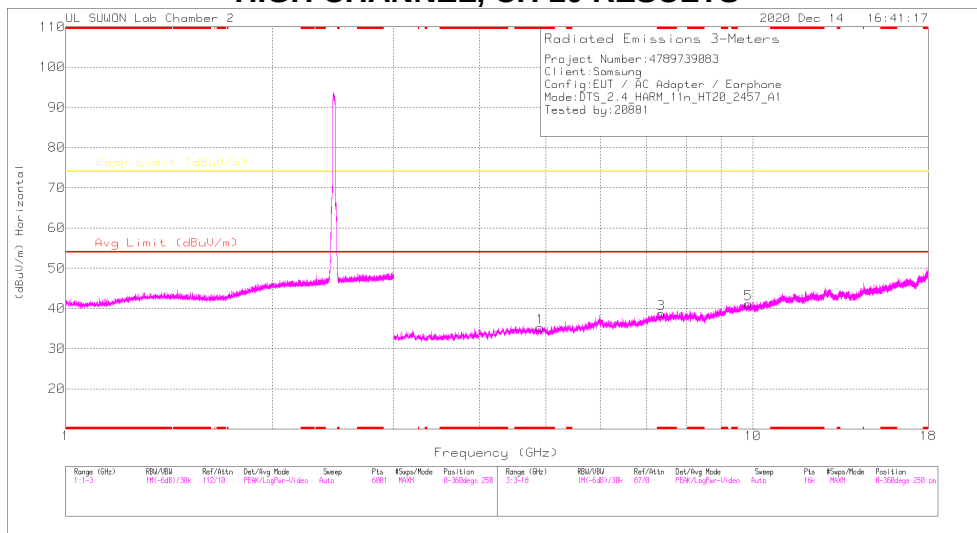
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.88423	40.97	PK2	34.1	-31.3	0	43.77	-	-	74	-30.23	360	100	H
* 4.87249	41.3	PK2	34.1	-31.3	0	44.1	-	-	74	-29.9	360	100	V
* 7.3127	38.31	PK2	35.8	-27.4	0	46.71	-	-	74	-27.29	360	100	H
* 7.31114	37.97	PK2	35.8	-27.4	0	46.37	-	-	74	-27.63	360	100	V
9.74629	34.99	PK2	37.4	-23.7	0	48.69	-	-	74	-25.31	360	100	H
9.74906	34.74	PK2	37.4	-23.7	0	48.44	-	-	74	-25.56	360	100	V

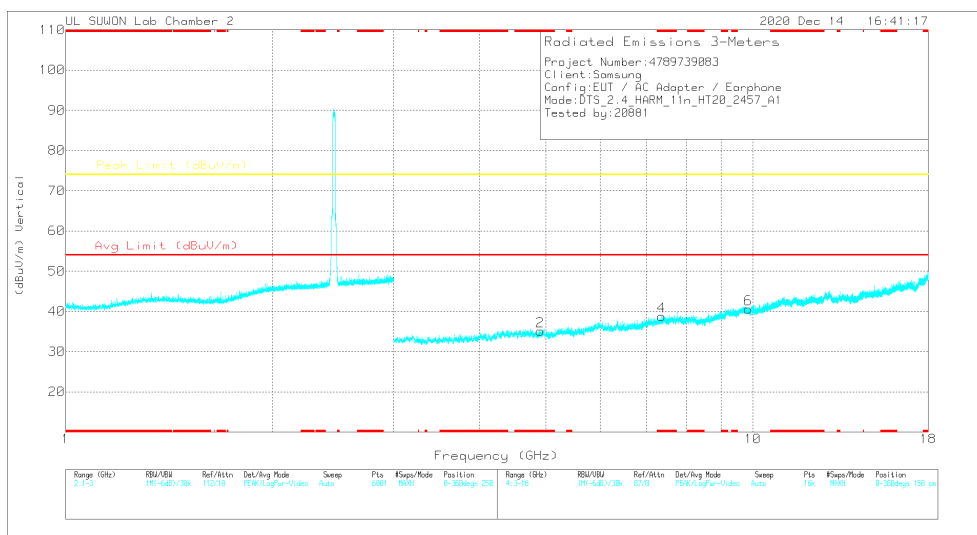
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

HIGH CHANNEL, CH 10 RESULTS



HORIZONTAL



VERTICAL

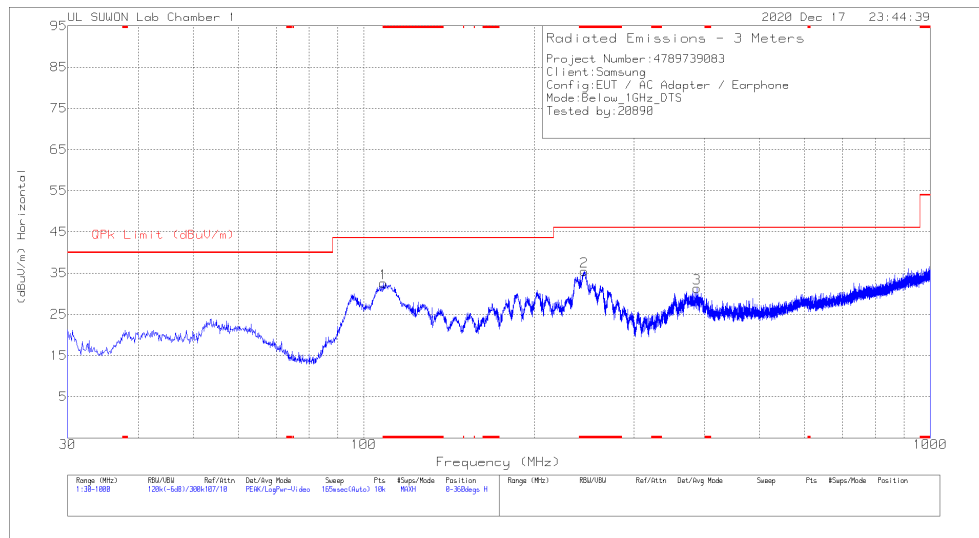
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

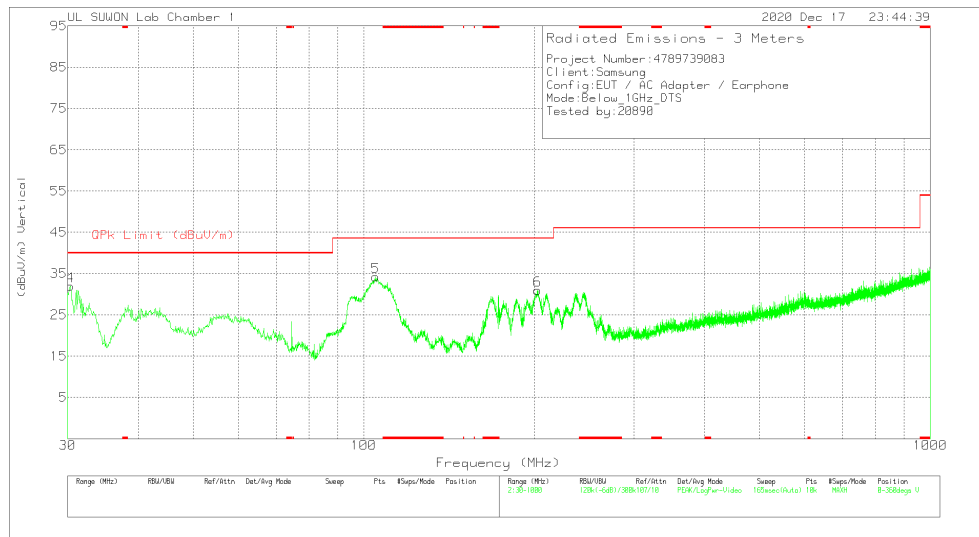
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.90144	36.96	PK2	34.1	-27.2	0	43.86	-	-	74	-30.14	360	100	H
* 4.90127	36.34	PK2	34.1	-27.2	0	43.24	-	-	74	-30.76	360	100	V
* 7.35958	35.4	PK2	36.1	-23.9	0	47.6	-	-	74	-26.4	360	100	H
* 7.36007	35.11	PK2	36.1	-23.9	0	47.31	-	-	74	-26.69	360	100	V
9.8424	32.75	PK2	37.3	-20.9	0	49.15	-	-	74	-24.85	360	100	H
9.84169	32.72	PK2	37.3	-20.9	0	49.12	-	-	74	-24.88	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak

10.2. WORST CASE BELOW 1 GHZ



HORIZONTAL



VERTICAL

Below 1GHz DATA

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	* 108.279	44.68	Pk	17.5	-29.6	32.58	43.52	-10.94	0-360	300	H
2	* 244.758	45.03	Pk	18.4	-28	35.43	46.02	-10.59	0-360	100	H
3	387.639	37.1	Pk	21.2	-27	31.3	46.02	-14.72	0-360	100	H
4	30.291	46.7	Pk	15.9	-30.6	32	40	-8	0-360	100	V
5	104.981	46.21	Pk	17.7	-29.7	34.21	43.52	-9.31	0-360	100	V
6	202.854	42.59	Pk	16.9	-28.5	30.99	43.52	-12.53	0-360	100	V

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

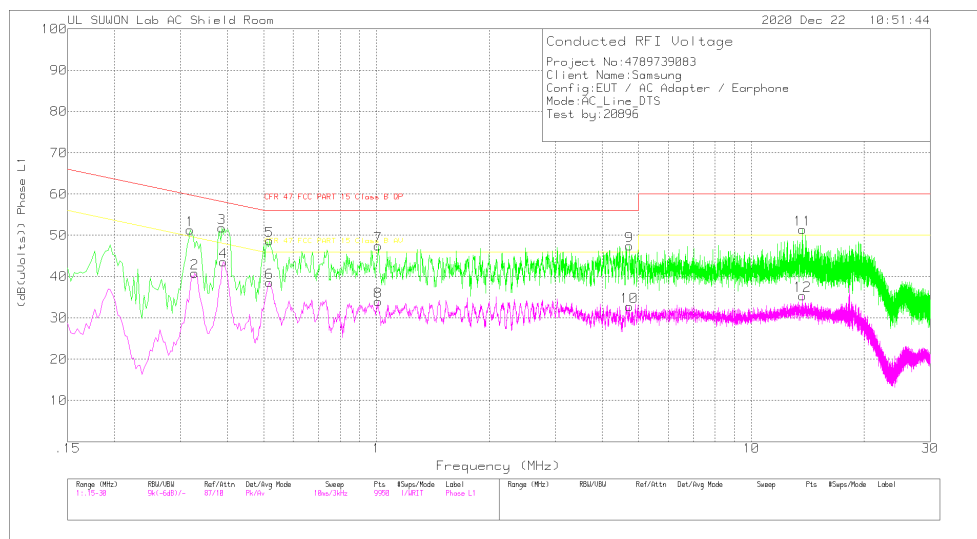
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

11.1.1. 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]	CABLELOS S(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	.318	41.35	Pk	9.8	.2	51.35	59.76	-8.41	-	-
2	.327	30.86	Av	9.8	.2	40.86	-	-	49.53	-8.67
3	.387	41.74	Pk	9.9	.2	51.84	58.13	-6.29	-	-
4	.39	33.44	Av	9.9	.2	43.54	-	-	48.06	-4.52
5	.519	38.53	Pk	9.9	.2	48.63	56	-7.37	-	-
6	.519	28.49	Av	9.9	.2	38.59	-	-	46	-7.41
7	1.011	37.3	Pk	9.8	.3	47.4	56	-8.6	-	-
8	1.011	23.84	Av	9.8	.3	33.94	-	-	46	-12.06
9	4.725	37.29	Pk	9.8	.3	47.39	56	-8.61	-	-
10	4.728	22.61	Av	9.8	.3	32.71	-	-	46	-13.29
11	13.698	41.06	Pk	10	.4	51.46	60	-8.54	-	-
12	13.698	25.01	Av	10	.4	35.41	-	-	50	-14.59

Pk - Peak detector

Av - Average detection

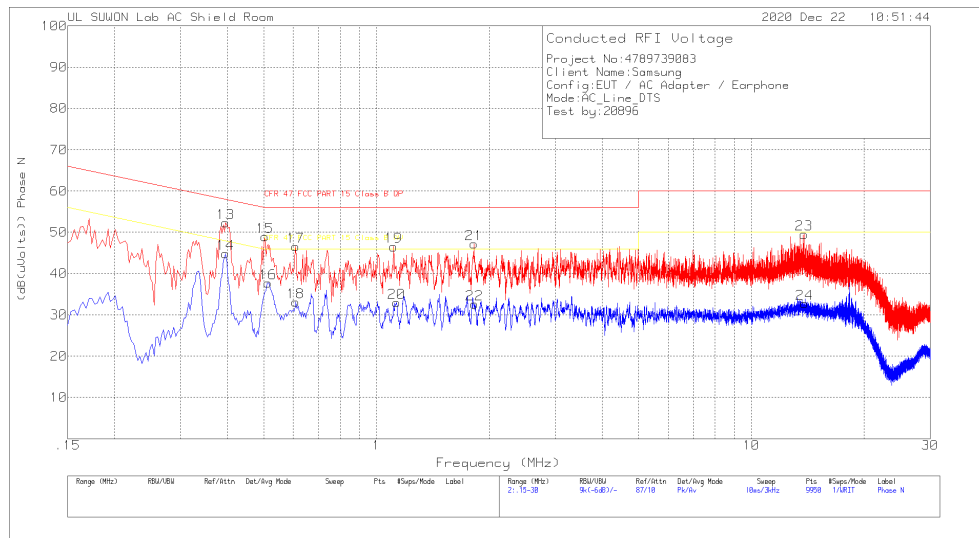
Quasi-Peak Emissions

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836 With EX_L1[dB]	CABLELOS S(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)
.31875	34.26	Qp	9.8	.2	44.26	59.74	-15.48	-	-
.32625	32.47	Qp	9.8	.2	42.47	59.55	-17.08	-	-
.38775	24.1	Qp	9.9	.2	34.2	58.11	-23.91	-	-
.39075	25.36	Qp	9.9	.2	35.46	58.05	-22.59	-	-
.51915	21.65	Qp	9.9	.2	31.75	56	-24.25	-	-
1.01025	29.96	Qp	9.8	.3	40.06	56	-15.94	-	-
4.72575	27.78	Qp	9.8	.3	37.88	56	-18.12	-	-
13.6973	26.8	Qp	10	.4	37.2	60	-22.8	-	-

Qp - Quasi-Peak detector

LINE 2 RESULTS



Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_N[dB]	CABLELOS S(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	.396	42.16	Pk	9.9	.2	52.26	57.94	-5.68	-	-
14	.396	34.67	Av	9.9	.2	44.77	-	-	47.94	-3.17
15	.504	38.83	Pk	9.9	.2	48.93	56	-7.07	-	-
16	.513	27.65	Av	9.9	.2	37.75	-	-	46	-8.25
17	.609	36.45	Pk	9.9	.2	46.55	56	-9.45	-	-
18	.609	23.05	Av	9.9	.2	33.15	-	-	46	-12.85
19	1.11	36.41	Pk	9.8	.3	46.51	56	-9.49	-	-
20	1.131	22.84	Av	9.8	.3	32.94	-	-	46	-13.06
21	1.818	37.1	Pk	9.8	.3	47.2	56	-8.8	-	-
22	1.827	22.47	Av	9.8	.3	32.57	-	-	46	-13.43
23	13.827	39	Pk	10.1	.4	49.5	60	-10.5	-	-
24	13.878	22.26	Av	10.1	.4	32.76	-	-	50	-17.24

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]	CABLELOS S(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)
.39615	26.43	Qp	9.9	.2	36.53	57.93	-21.4	-	-
.50325	31.53	Qp	9.9	.2	41.63	56	-14.37	-	-
.51225	23.95	Qp	9.9	.2	34.05	56	-21.95	-	-
.60825	26.08	Qp	9.9	.2	36.18	56	-19.82	-	-
1.11075	29.62	Qp	9.8	.3	39.72	56	-16.28	-	-
1.81725	20.22	Qp	9.8	.3	30.32	56	-25.68	-	-

Qp - Quasi-Peak detector

END OF TEST REPORT

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