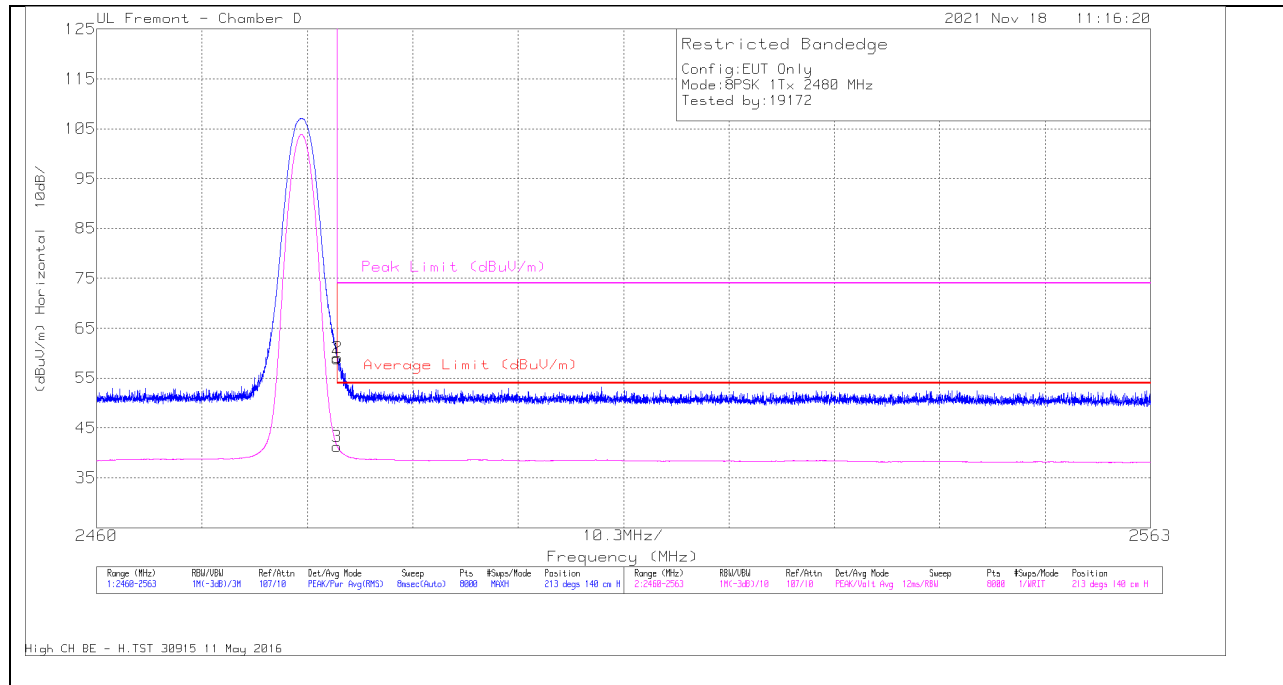


BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

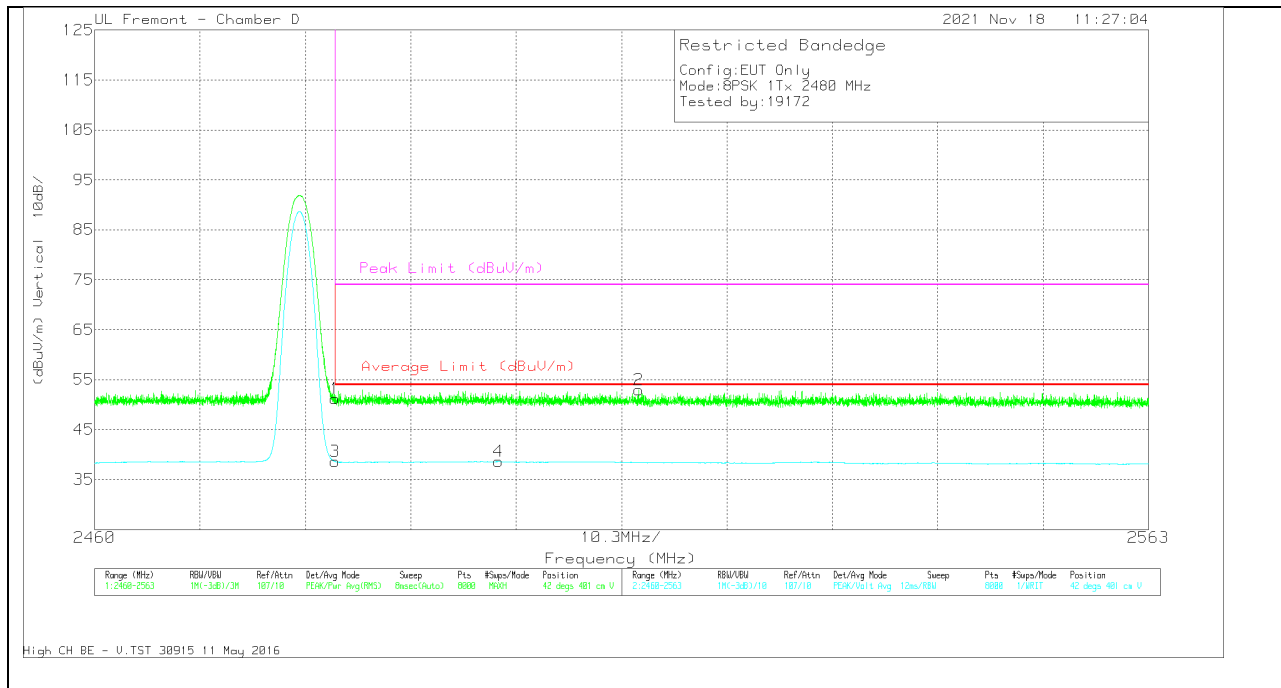
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb I/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	46.79	Pk	32.7	-20.7	58.79	-	-	74	-15.21	213	140	H
2	* 2483.53	47.13	Pk	32.7	-20.7	59.13	-	-	74	-14.87	213	140	H
3	* 2483.5	29.31	VA1T	32.7	-20.7	41.31	54	-12.69	-	-	213	140	H

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

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

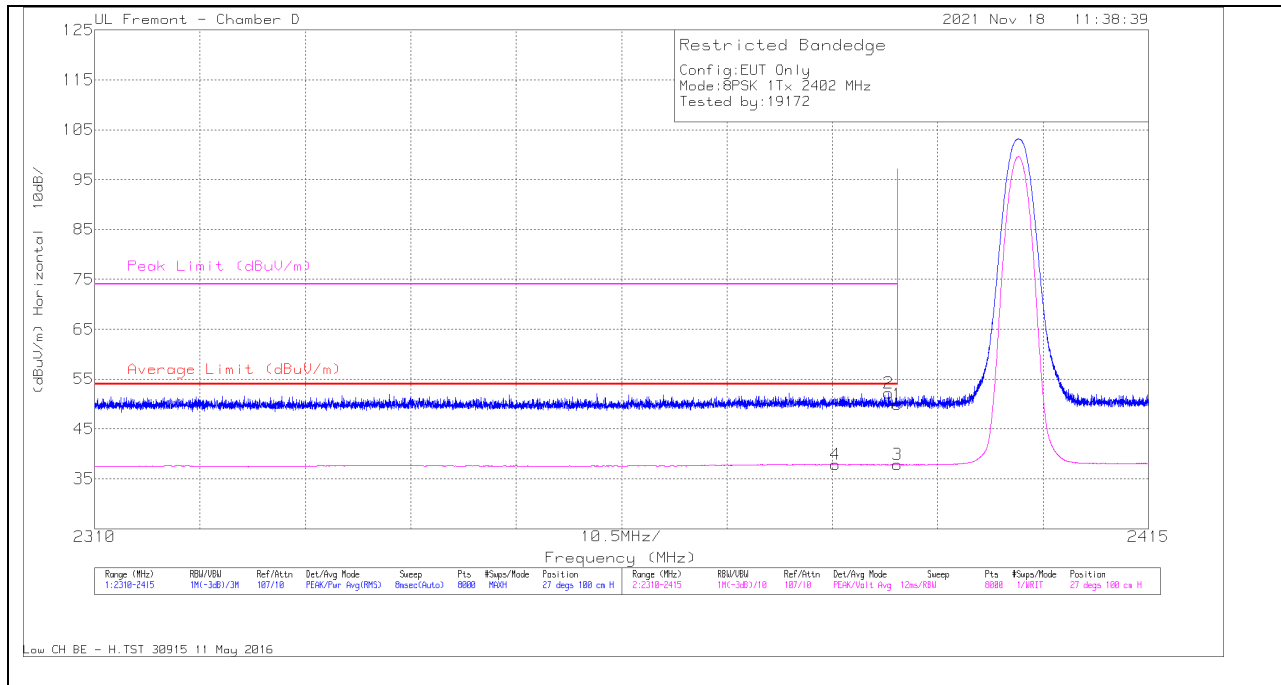


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	39.24	Pk	32.7	-20.7	51.24	-	-	74	-22.76	42	401	V
3	* 2483.5	26.59	VA1T	32.7	-20.7	38.59	54	-15.41	-	-	42	401	V
4	* 2499.45	26.52	VA1T	32.8	-20.7	38.62	54	-15.38	-	-	42	401	V
2	2513.182	40.98	Pk	32.7	-20.7	52.98	-	-	74	-21.02	42	401	V

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

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average $V_B = 1/T_{on}$ where: T_{on} is transmit duration

ANT 3**BANDEGE (LOW CHANNEL)****HORIZONTAL RESULT**

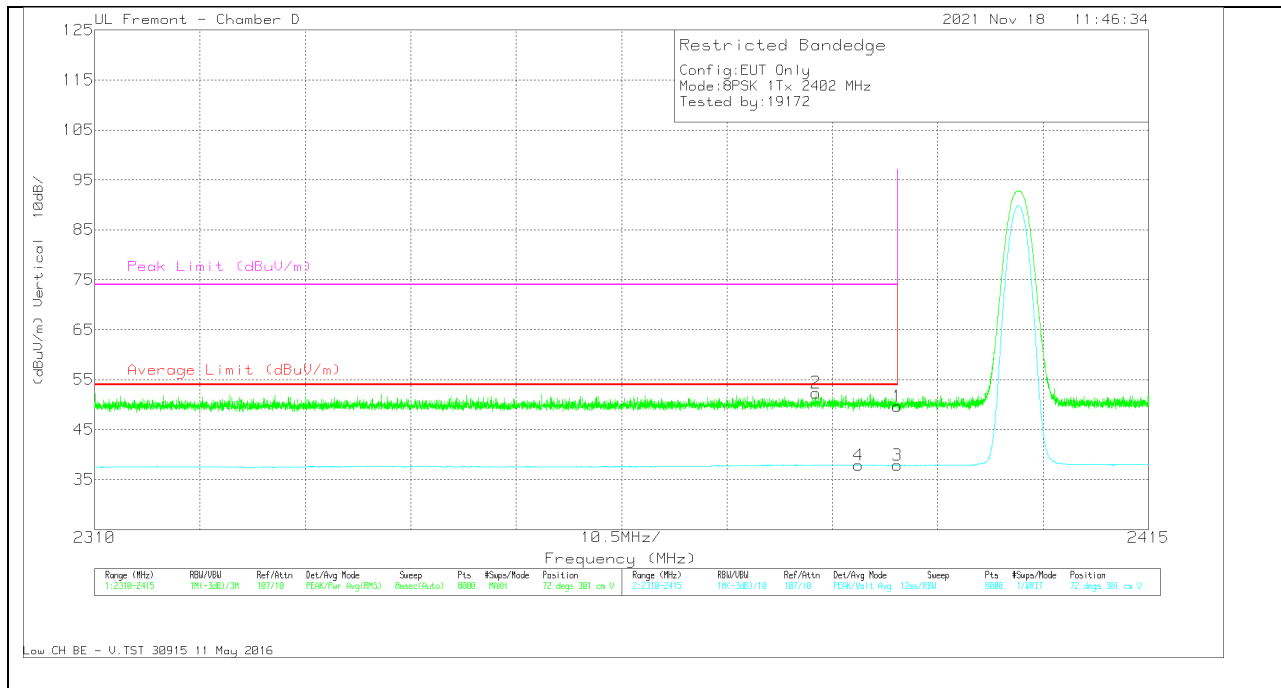
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T712 (dBm)	Amp/Cb I/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2390	38.59	Pk	32.1	-20.7	49.99	-	-	74	-24.01	27	100	H
2	* 2389.11	40.84	Pk	32.1	-20.7	52.24	-	-	74	-21.76	27	100	H
3	* 2390	26.46	VA1T	32.1	-20.7	37.86	54	-16.14	-	-	27	100	H
4	* 2383.77	26.59	VA1T	32.1	-20.8	37.89	54	-16.11	-	-	27	100	H

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

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

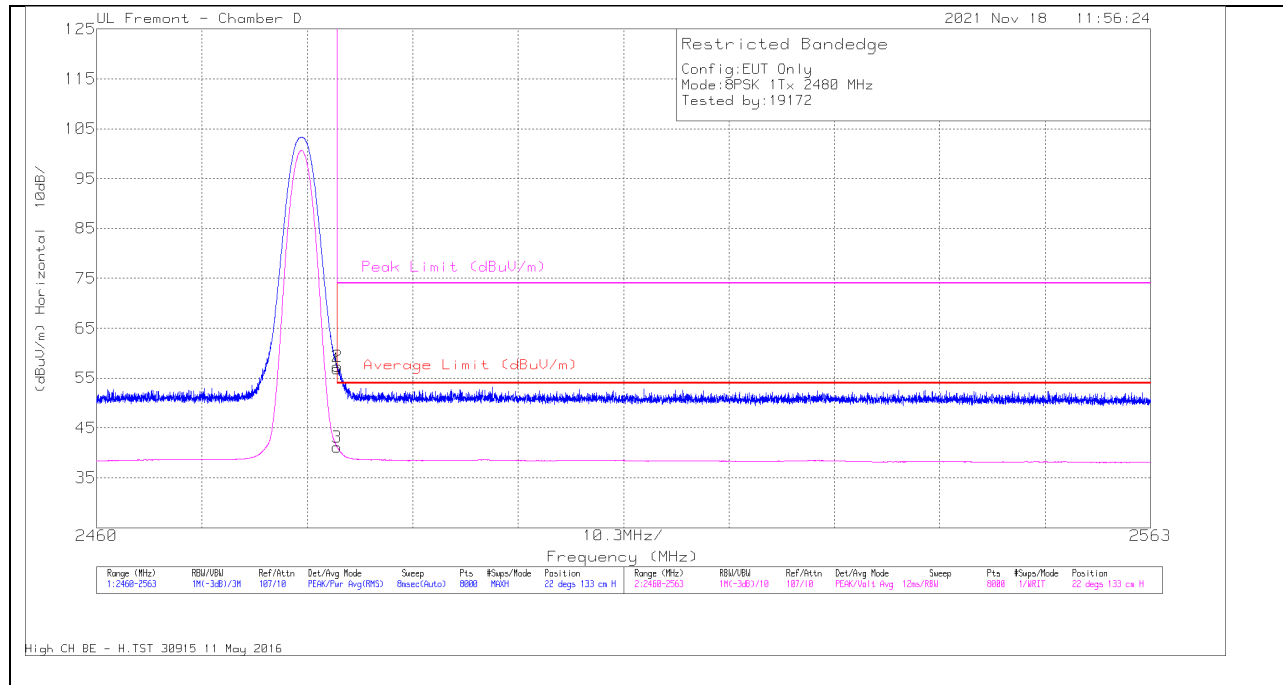


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb I/Filtr/PA d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2390	38.32	Pk	32.1	-20.7	49.72	-	-	74	-24.28	72	301	V
2	* 2381.84	41.08	Pk	32.1	-20.8	52.38	-	-	74	-21.62	72	301	V
3	* 2390	26.42	VA1T	32.1	-20.7	37.82	54	-16.18	-	-	72	301	V
4	* 2386.13	26.6	VA1T	32.1	-20.8	37.9	54	-16.1	-	-	72	301	V

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

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

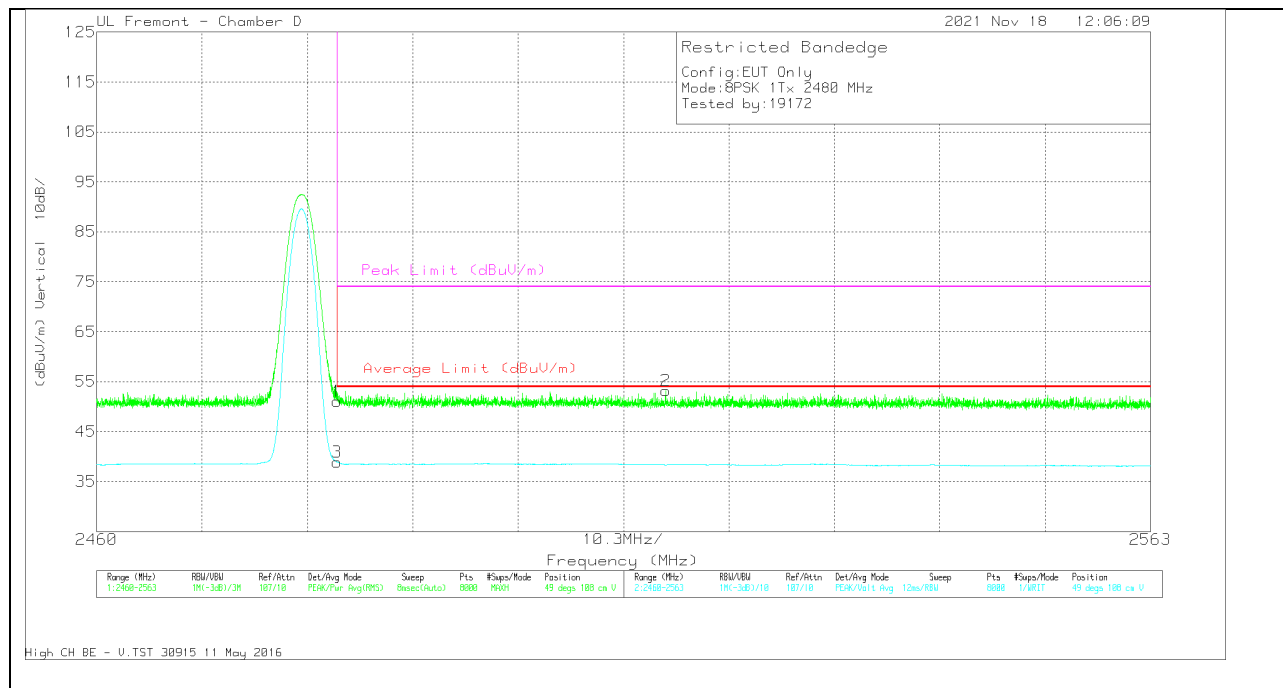
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb I/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	44.86	Pk	32.7	-20.7	56.86	-	-	74	-17.14	22	133	H
2	* 2483.52	45.37	Pk	32.7	-20.7	57.37	-	-	74	-16.63	22	133	H
3	* 2483.5	29.14	VA1T	32.7	-20.7	41.14	54	-12.86	-	-	22	133	H

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

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb I/Filtr/PA d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	39.05	Pk	32.7	-20.7	51.05	-	-	74	-22.95	49	108	V
3	* 2483.5	26.89	VA1T	32.7	-20.7	38.89	54	-15.11	-	-	49	108	V
2	2515.60	41.21	Pk	32.7	-20.7	53.21	-	-	74	-20.79	49	108	V

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

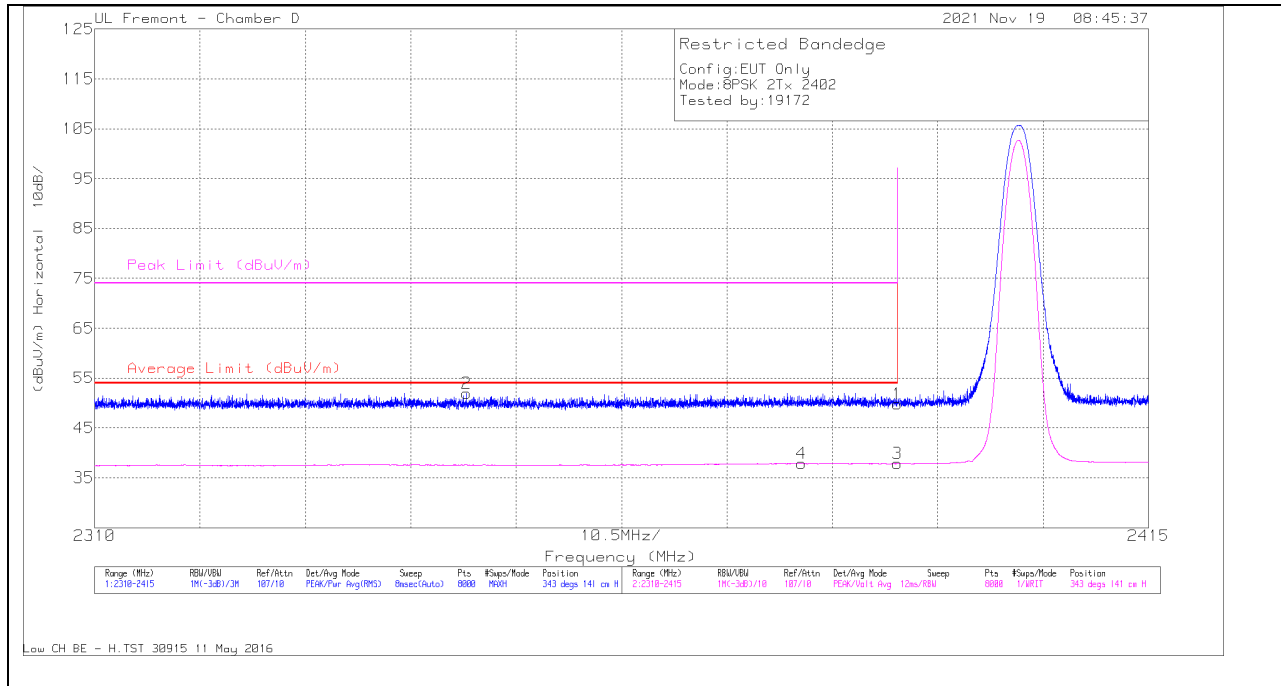
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.9. LOW POWER BASIC DATA RATE TXBF 8PSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



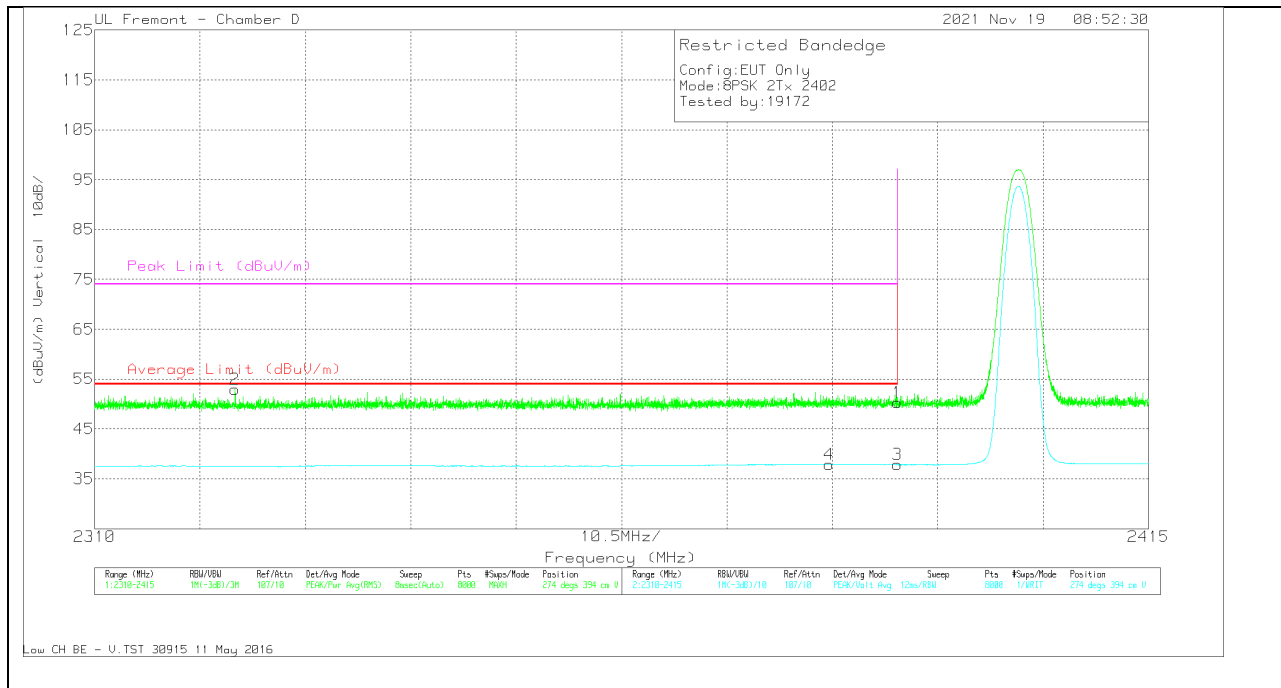
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb I/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2390	38.38	Pk	32.1	-20.7	49.78	-	-	74	-24.22	343	141	H
2	* 2347.04	40.89	Pk	31.9	-20.8	51.99	-	-	74	-22.01	343	141	H
3	* 2390	26.42	VA1T	32.1	-20.7	37.82	54	-16.18	-	-	343	141	H
4	* 2380.41	26.61	VA1T	32.1	-20.8	37.91	54	-16.09	-	-	343	141	H

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

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

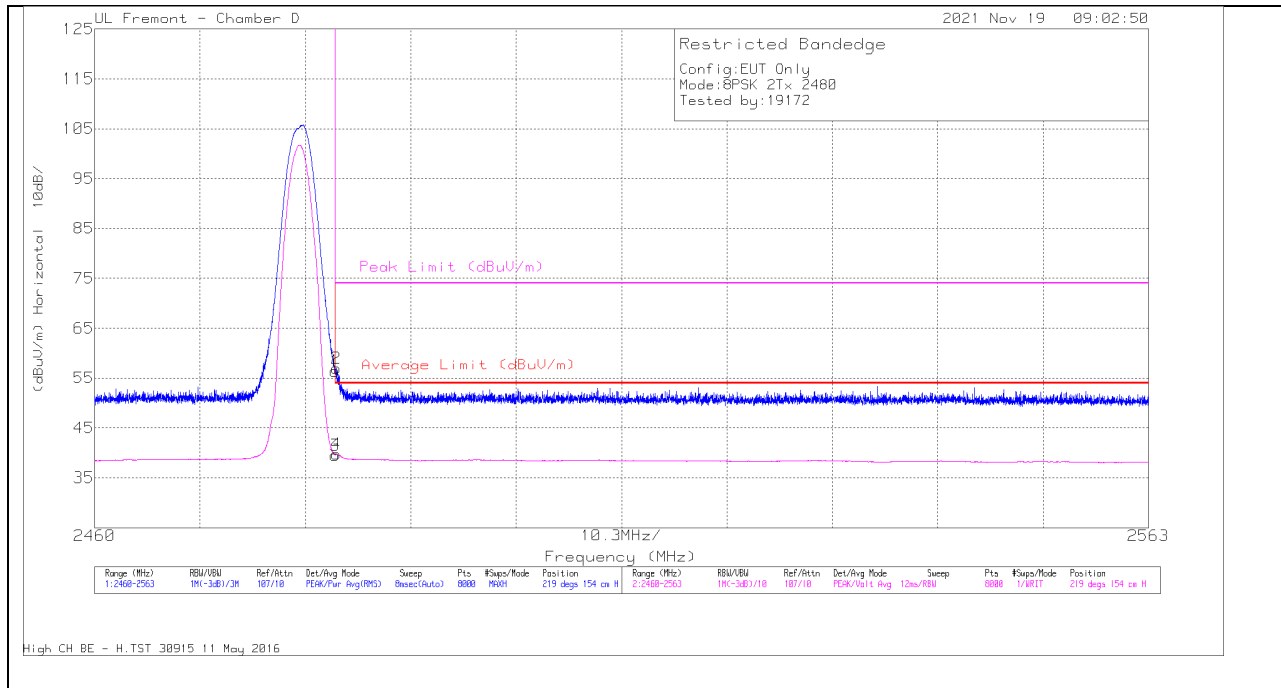


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2390	38.88	Pk	32.1	-20.7	50.28	-	-	74	-23.72	274	394	V
2	* 2323.99	42.03	Pk	31.8	-20.9	52.93	-	-	74	-21.07	274	394	V
3	* 2390	26.43	VA1T	32.1	-20.7	37.83	54	-16.17	-	-	274	394	V
4	* 2383.19	26.63	VA1T	32.1	-20.8	37.93	54	-16.07	-	-	274	394	V

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

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

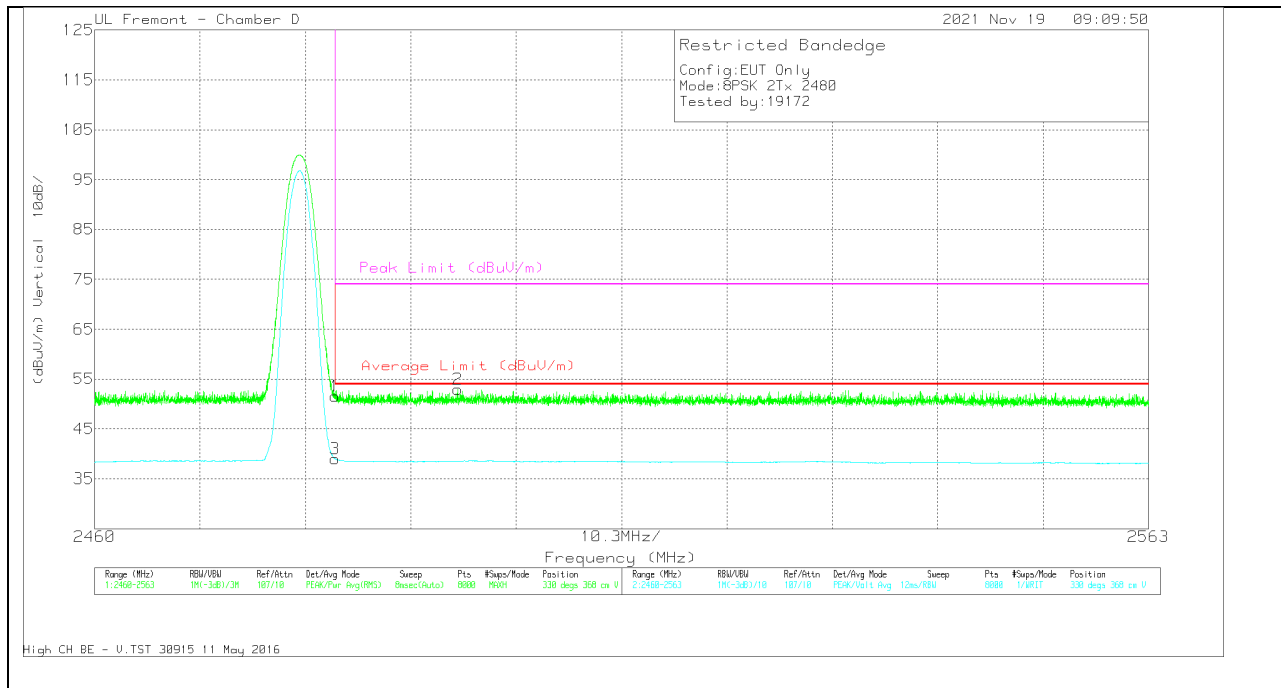
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	44.4	Pk	32.7	-20.7	56.4	-	-	74	-17.6	219	154	H
2	* 2483.59	45.01	Pk	32.7	-20.7	57.01	-	-	74	-16.99	219	154	H
3	* 2483.5	27.56	VA1T	32.7	-20.7	39.56	54	-14.44	-	-	219	154	H
4	* 2483.62	27.73	VA1T	32.7	-20.7	39.73	54	-14.27	-	-	219	154	H

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

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb I/Filtr/Pa d (dB)	Correct ed Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	39.55	Pk	32.7	-20.7	51.55	-	-	74	-22.45	330	368	V
2	* 2495.48	40.89	Pk	32.8	-20.7	52.99	-	-	74	-21.01	330	368	V
3	* 2483.5	26.98	VA1T	32.7	-20.7	38.98	54	-15.02	-	-	330	368	V

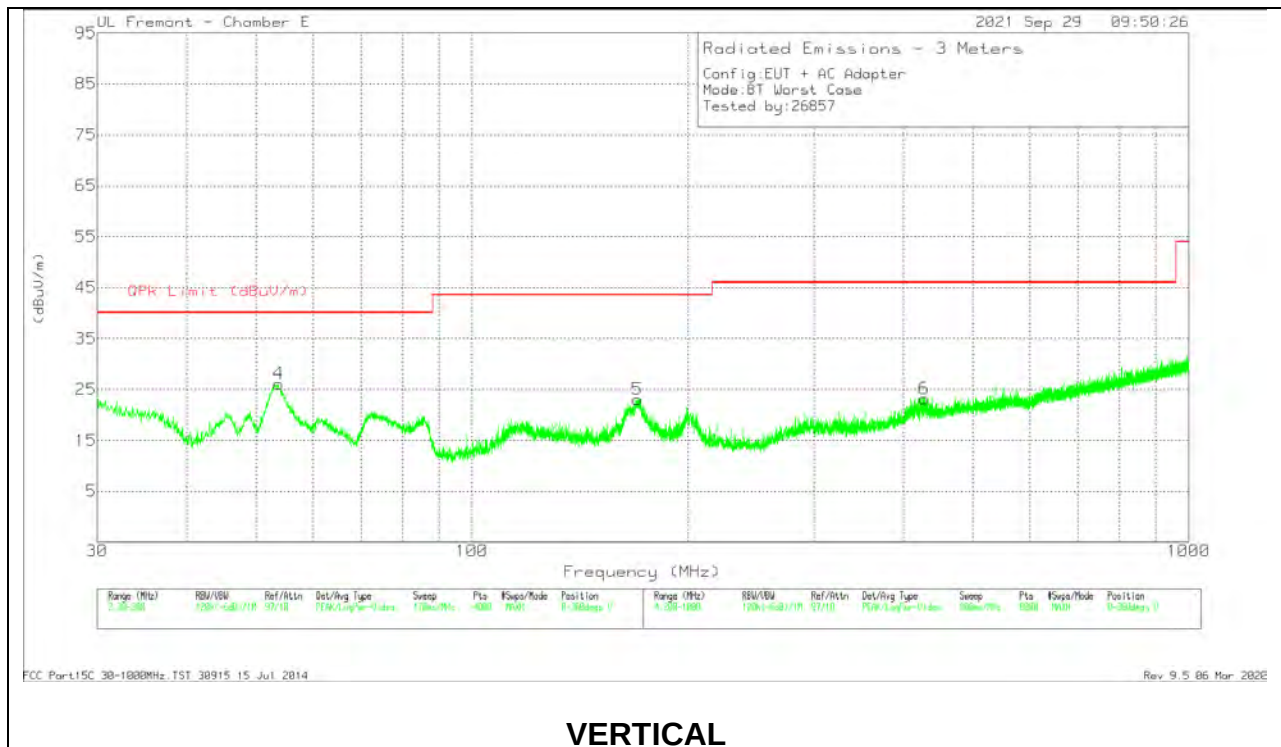
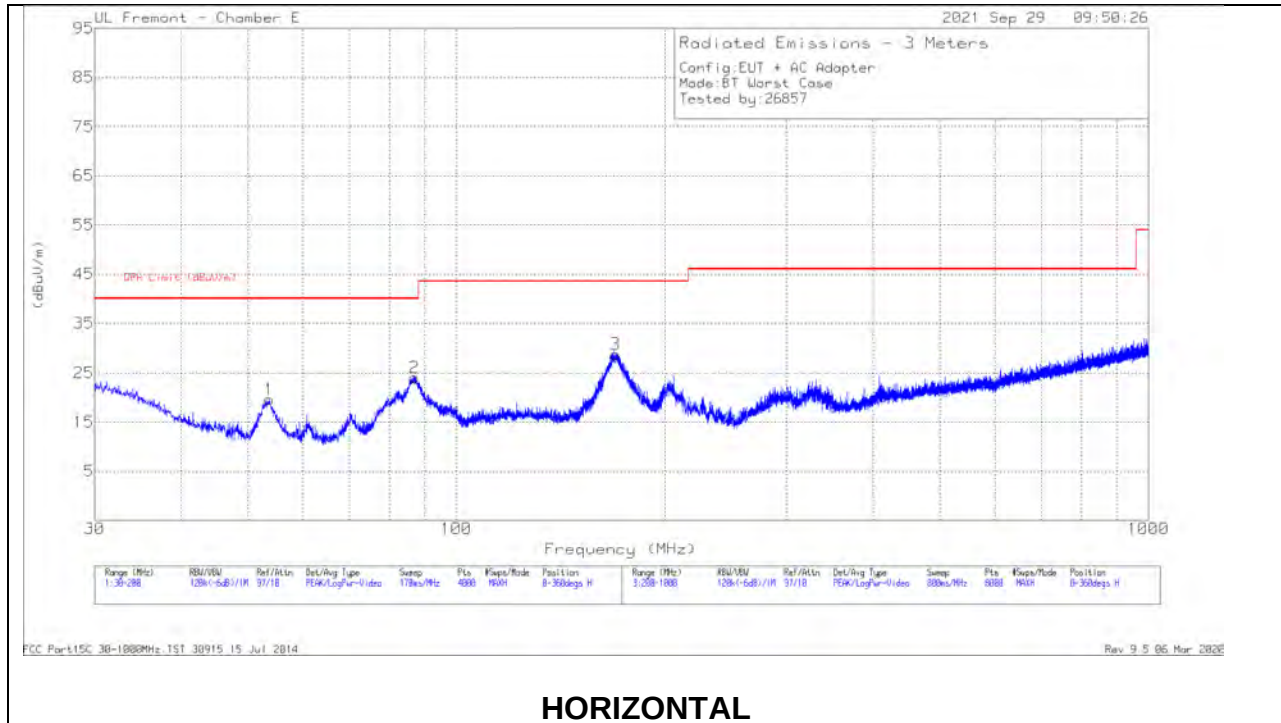
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average $V_B = 1/T_{on}$ where: T_{on} is transmit duration

10.2. WORST CASE BELOW 1 GHZ

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



Below 1GHz Data

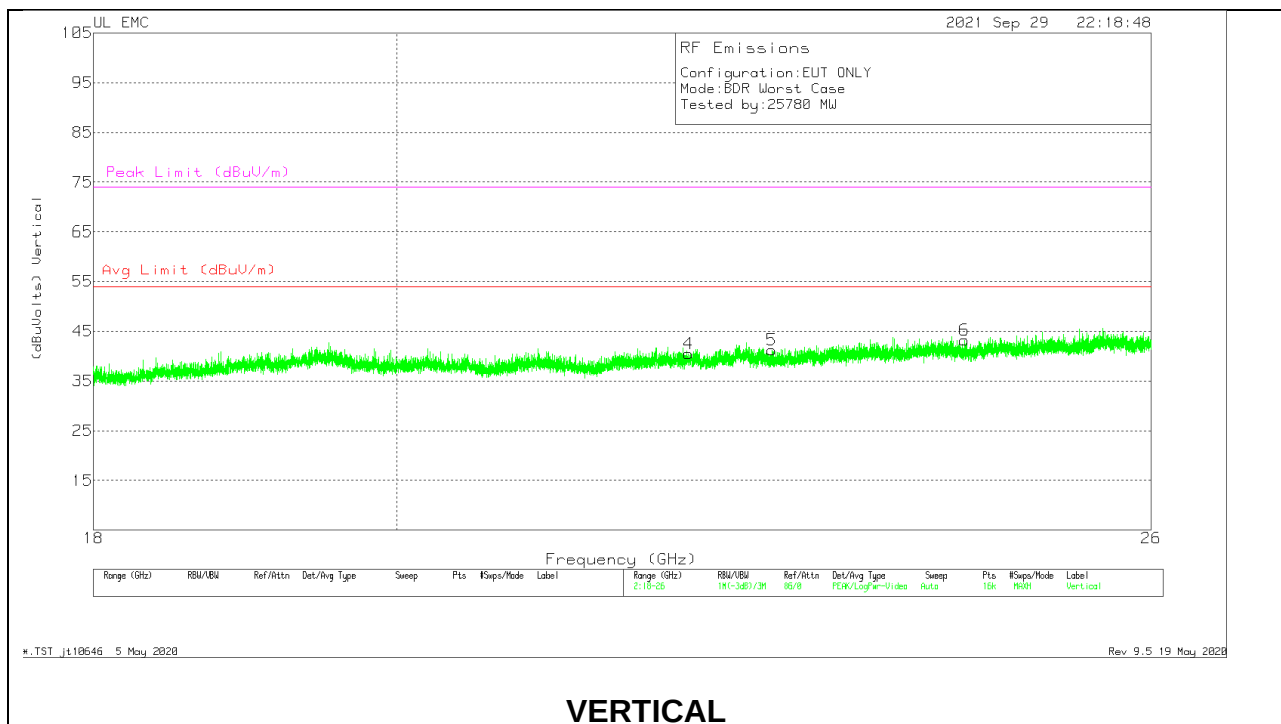
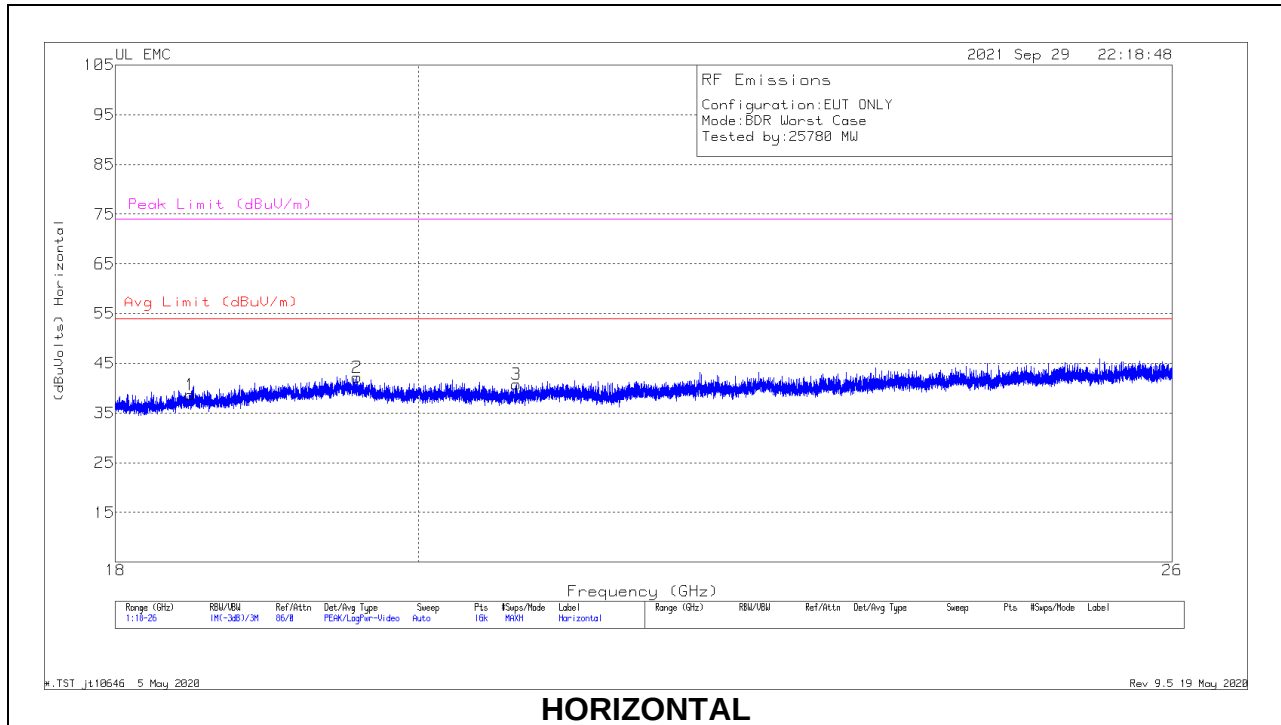
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 204045 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 169.6486	41.34	Pk	17.5	-30.1	28.74	43.52	-14.78	0-360	201	H
5	* 170.2438	35.68	Pk	17.5	-30.1	23.08	43.52	-20.44	0-360	100	V
1	53.6361	37.71	Pk	13.1	-31.2	19.61	40	-20.39	0-360	401	H
4	53.7211	44.16	Pk	13.1	-31.2	26.06	40	-13.94	0-360	100	V
2	87.0498	41.7	Pk	13.3	-30.9	24.1	40	-15.9	0-360	201	H
6	427.6296	29.6	Pk	22.2	-28.6	23.2	46.02	-22.82	0-360	99	V

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

Pk - Peak detector

10.3. WORST CASE 18-26 GHZ

SPURIOUS EMISSIONS 18-26 GHZ (WORST-CASE CONFIGURATION)



18 – 26GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF 81140	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBUVolts)	Avg Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)
1	18.47497	36.13	Pk	32.4	-20.4	-9.5	38.63	54	-15.37	74	-35.37
2	19.5769	37.51	Pk	32.8	-18.6	-9.5	42.21	54	-11.79	74	-31.79
3	20.69483	37.29	Pk	32.9	-19.9	-9.5	40.79	54	-13.21	74	-33.21
4	22.13624	35.38	Pk	33.3	-18.7	-9.5	40.48	54	-13.52	74	-33.52
5	22.7857	36.61	Pk	33.4	-19.3	-9.5	41.21	54	-12.79	74	-32.79
6	24.36511	37.22	Pk	33.7	-18.2	-9.5	43.22	54	-10.78	74	-30.78

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	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.

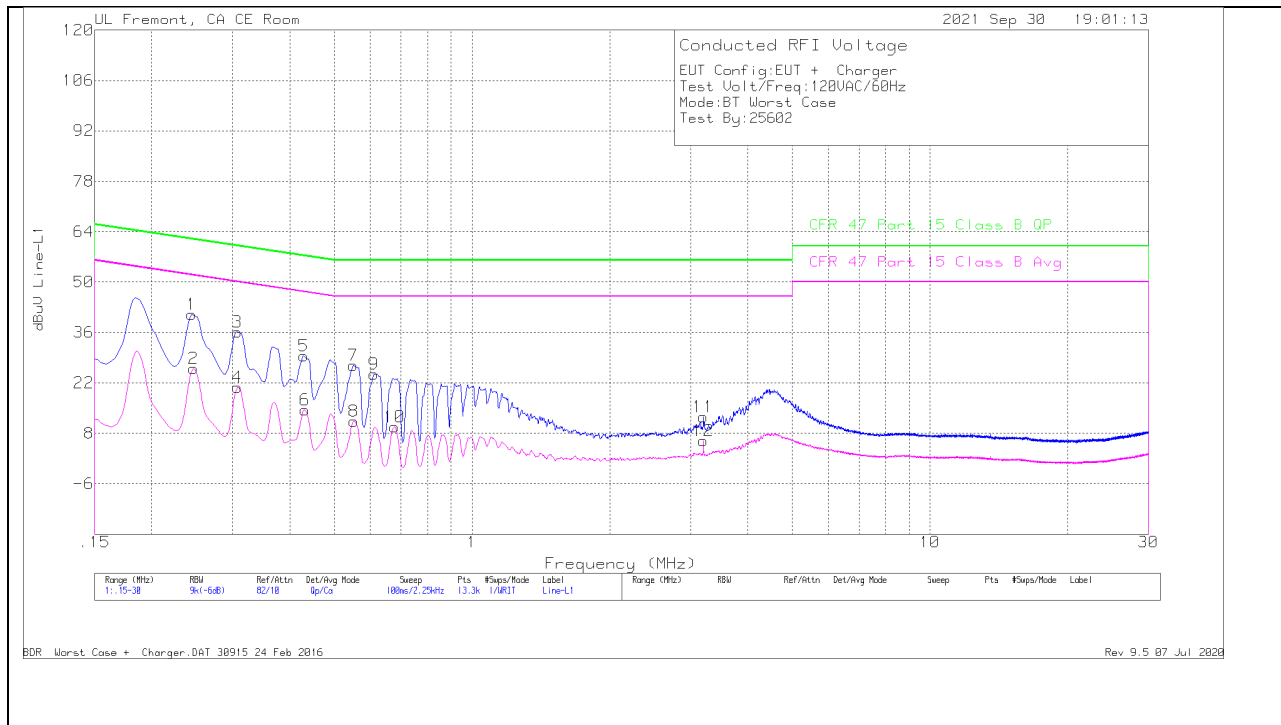
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

11.1. AC Power Line With AC/DC Adapter

LINE 1 RESULTS



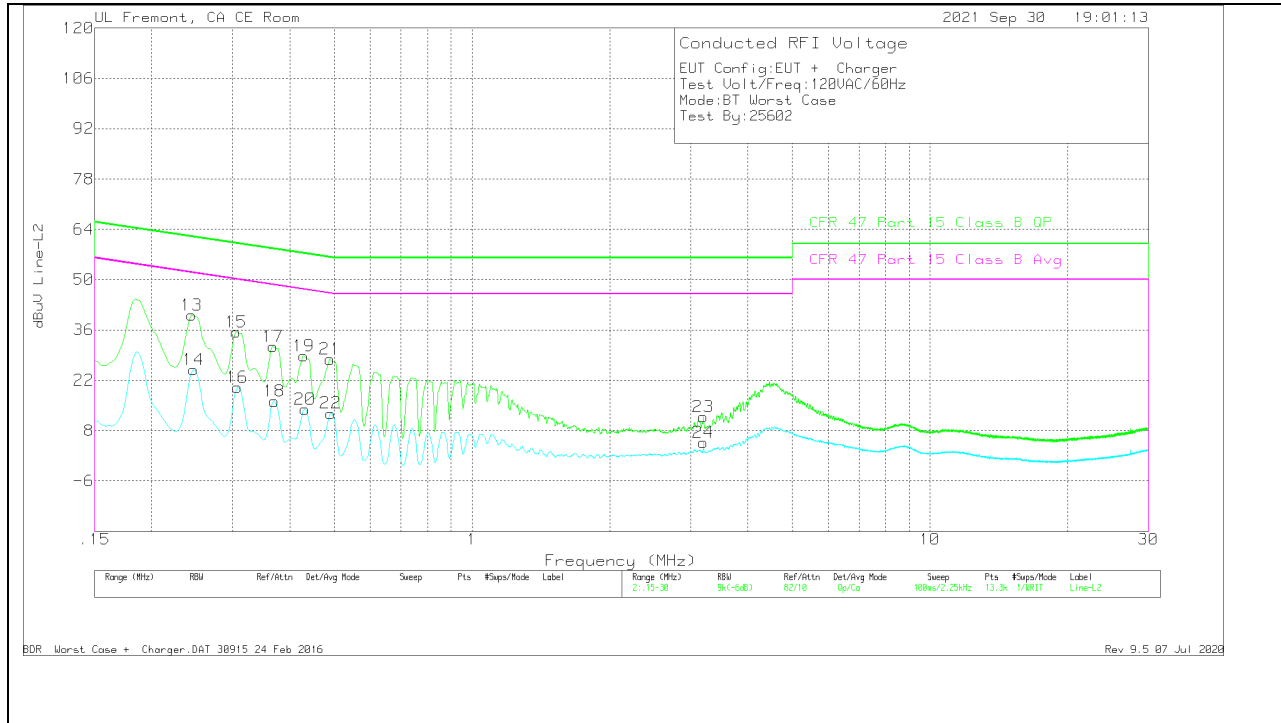
Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE018644 6 L1	LC Cables C1&C3 dB	TekBox Limiter TBFL1 Model 207	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)M argin (dB)
2	.24675	16.68	Ca	0	0	9.3	25.98	-	-	51.87	-25.89
4	.3075	11.52	Ca	0	0	9.3	20.82	-	-	50.04	-29.22
6	.43125	5.18	Ca	0	0	9.3	14.48	-	-	47.23	-32.75
8	.55275	2.09	Ca	0	0	9.3	11.39	-	-	46	-34.61
10	.6765	.5	Ca	0	0	9.3	9.8	-	-	46	-36.2
12	3.19875	-3.49	Ca	0	.1	9.3	5.91	-	-	46	-40.09
1	.2445	31.65	Qp	0	0	9.3	40.95	61.94	-20.99	-	-
3	.3075	26.88	Qp	0	0	9.3	36.18	60.04	-23.86	-	-
5	.429	20.17	Qp	0	0	9.3	29.47	57.27	-27.8	-	-
7	.5505	17.6	Qp	0	0	9.3	26.9	56	-29.1	-	-
9	.61125	15.12	Qp	0	0	9.3	24.42	56	-31.58	-	-
11	3.19875	3.24	Qp	0	.1	9.3	12.64	56	-43.36	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz

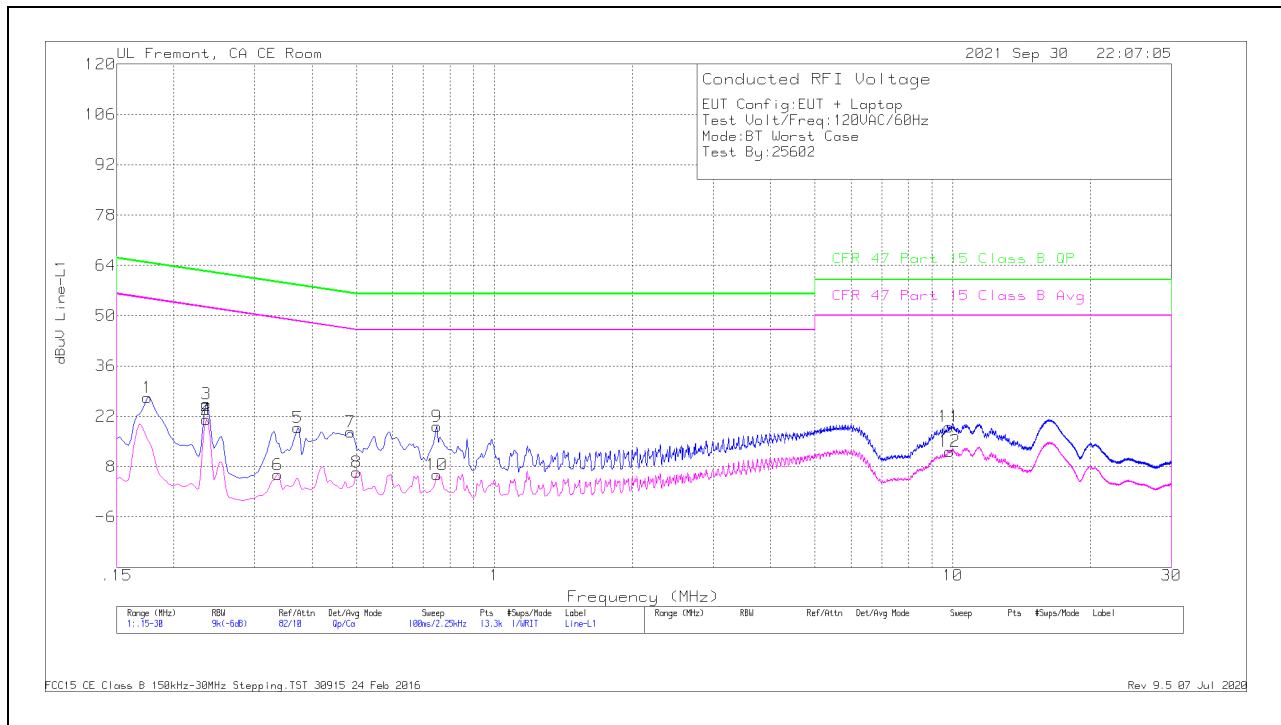
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE018644 6 L2	LC Cables C2&C3 dB	TekBox Limiter TBFL1 Model 207	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)M argin (dB)
14	.24675	15.71	Ca	0	0	9.3	25.01	-	-	51.87	-26.86
16	.3075	10.75	Ca	0	0	9.3	20.05	-	-	50.04	-29.99
18	.3705	6.85	Ca	0	0	9.3	16.15	-	-	48.49	-32.34
20	.43125	4.69	Ca	0	0	9.3	13.99	-	-	47.23	-33.24
22	.492	3.53	Ca	0	0	9.3	12.83	-	-	46.13	-33.3
24	3.19875	-4.67	Ca	0	.1	9.3	4.73	-	-	46	-41.27
13	.2445	30.82	Qp	0	0	9.3	40.12	61.94	-21.82	-	-
15	.30525	26.13	Qp	0	0	9.3	35.43	60.1	-24.67	-	-
17	.36825	22.08	Qp	0	0	9.3	31.38	58.54	-27.16	-	-
19	.429	19.5	Qp	0	0	9.3	28.8	57.27	-28.47	-	-
21	.48975	18.54	Qp	0	0	9.3	27.84	56.17	-28.33	-	-
23	3.19875	2.41	Qp	0	.1	9.3	11.81	56	-44.19	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

11.2. AC Power Line With Laptop

LINE 1 RESULTS



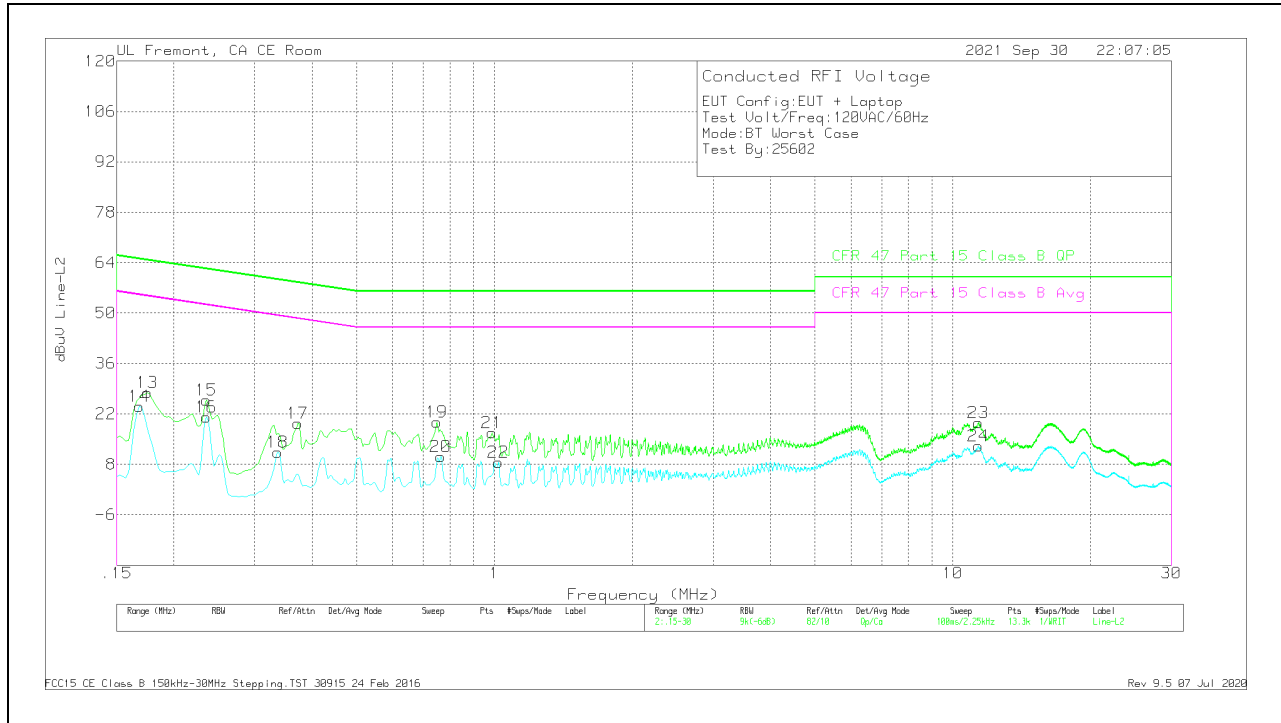
Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE018644 6 L1	LC Cables C1&C3 dB	TekBox Limiter TBFL1 Model 207	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
2	.2355	11.77	Ca	0	0	9.3	21.07	-	-	52.25	-31.18
4	.2355	11.77	Ca	0	0	9.3	21.07	-	-	52.25	-31.18
6	.33675	-3.46	Ca	0	0	9.3	5.84	-	-	49.28	-43.44
8	.501	-2.9	Ca	0	0	9.3	6.4	-	-	46	-39.6
10	.7485	-3.57	Ca	0	0	9.3	5.73	-	-	46	-40.27
12	9.83175	2.8	Ca	0	.2	9.3	12.3	-	-	50	-37.7
1	.17475	17.86	Qp	0	0	9.4	27.26	64.73	-37.47	-	-
3	.2355	16.11	Qp	0	0	9.3	25.41	62.25	-36.84	-	-
5	.37275	9.6	Qp	0	0	9.3	18.9	58.44	-39.54	-	-
7	.48525	8.32	Qp	0	0	9.3	17.62	56.25	-38.63	-	-
9	.7485	9.93	Qp	0	0	9.3	19.23	56	-36.77	-	-
11	9.825	9.61	Qp	0	.2	9.3	19.11	60	-40.89	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE018644 6 L2	LC Cables C2&C3 dB	TekBox Limiter TBFL1 Model 207	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)M argin (dB)
14	.168	14.74	Ca	0	0	9.4	24.14	-	-	55.06	-30.92
16	.2355	11.86	Ca	0	0	9.3	21.16	-	-	52.25	-31.09
18	.33675	2.1	Ca	0	0	9.3	11.4	-	-	49.28	-37.88
20	.76425	.83	Ca	0	0	9.3	10.13	-	-	46	-35.87
22	1.02075	-.78	Ca	0	.1	9.3	8.62	-	-	46	-37.38
24	11.373	3.53	Ca	0	.2	9.3	13.03	-	-	50	-36.97
13	.17475	18.48	Qp	0	0	9.4	27.88	64.73	-36.85	-	-
15	.2355	16.54	Qp	0	0	9.3	25.84	62.25	-36.41	-	-
17	.37275	10.08	Qp	0	0	9.3	19.38	58.44	-39.06	-	-
19	.7485	10.46	Qp	0	0	9.3	19.76	56	-36.24	-	-
21	.987	7.37	Qp	0	.1	9.3	16.77	56	-39.23	-	-
23	11.37975	10.06	Qp	0	.2	9.3	19.56	60	-40.44	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

12. SETUP PHOTOS

Please refer to 13911916-EP1V1 for setup photos

END OF TEST REPORT