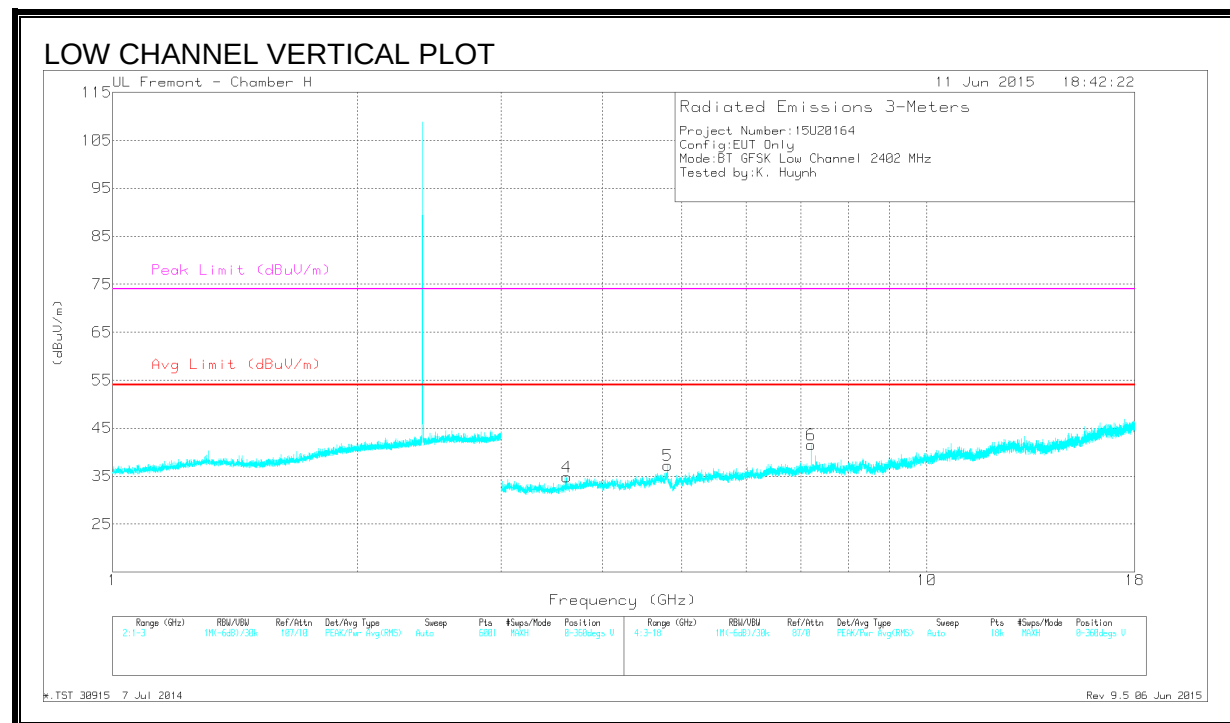
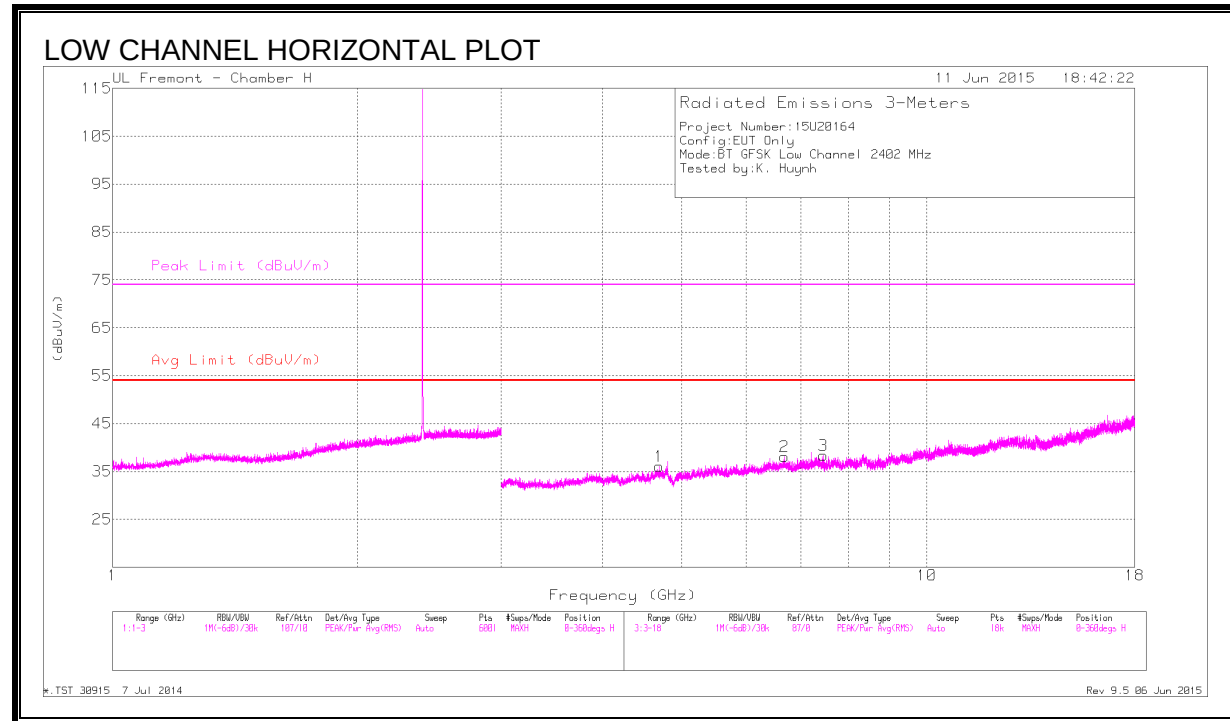


HARMONICS AND SPURIOUS EMISSIONS



DATA

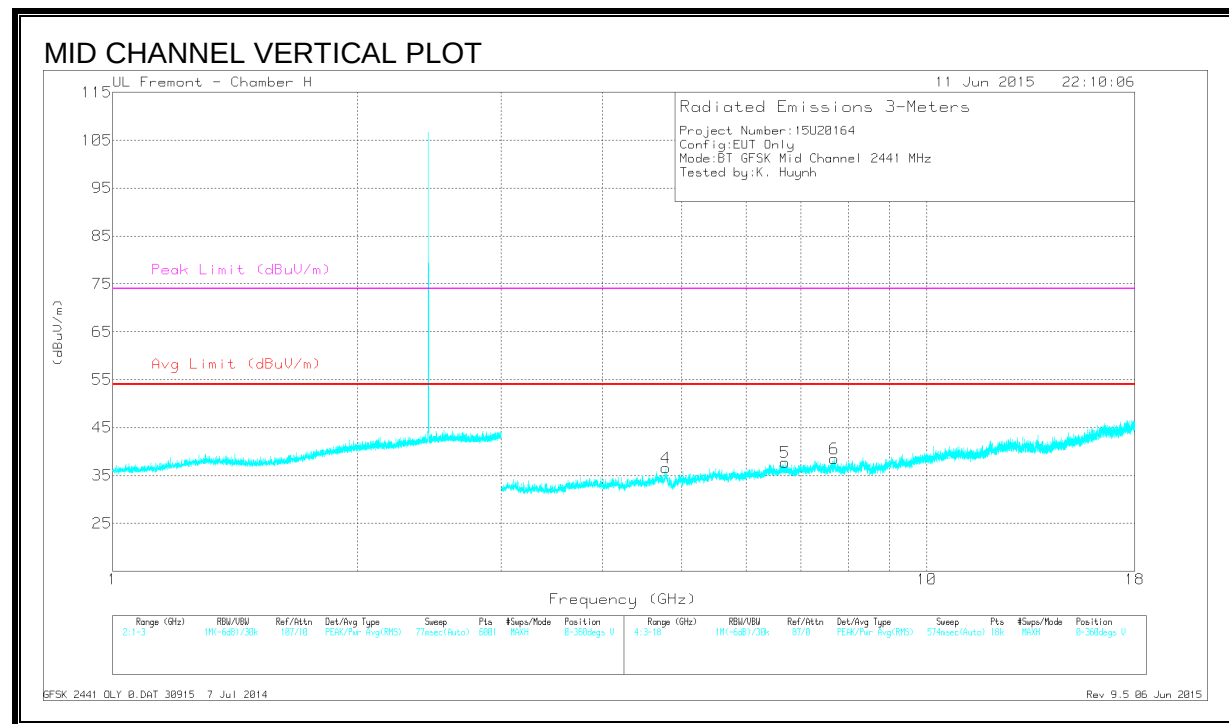
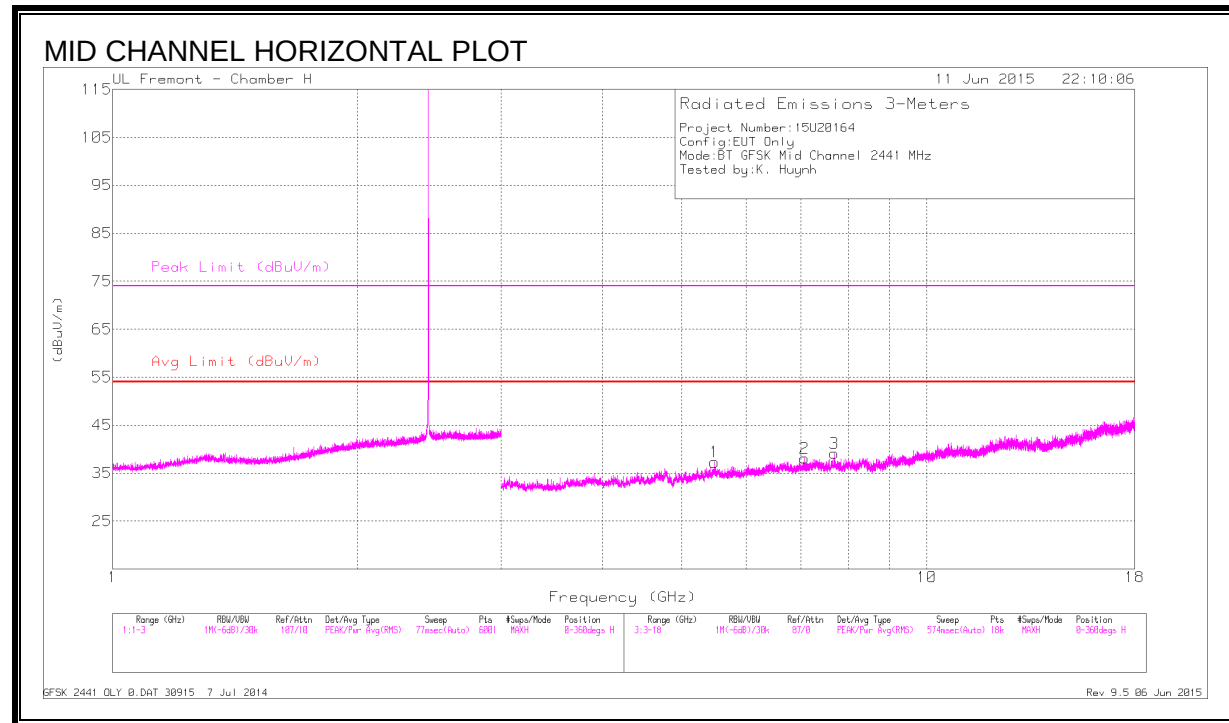
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.694	41.42	PK3	34.1	-31.8	43.72	-	-	74	-30.28	145	113	H
	* 4.695	28.96	VB10	34.1	-31.8	31.26	54	-22.74	-	-	145	113	H
3	* 7.46	38.71	PK3	36	-29.4	45.31	-	-	74	-28.69	305	208	H
	* 7.458	26.87	VB10	36	-29.4	33.47	54	-20.53	-	-	305	208	H
4	* 3.614	41.33	PK3	33.1	-33	41.43	-	-	74	-32.57	318	195	V
	* 3.608	29.42	VB10	33	-32.9	29.52	54	-24.48	-	-	318	195	V
5	* 4.803	42.01	PK3	34.2	-32.5	43.71	-	-	74	-30.29	322	206	V
	* 4.804	31.28	VB10	34.2	-32.5	32.98	54	-21.02	-	-	322	206	V
2	6.685	40	PK3	35.8	-29.6	46.2	-	-	74	-27.8	360	202	H
6	7.208	39.65	PK3	35.9	-30.6	44.95	-	-	74	-29.05	327	208	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS



DATA

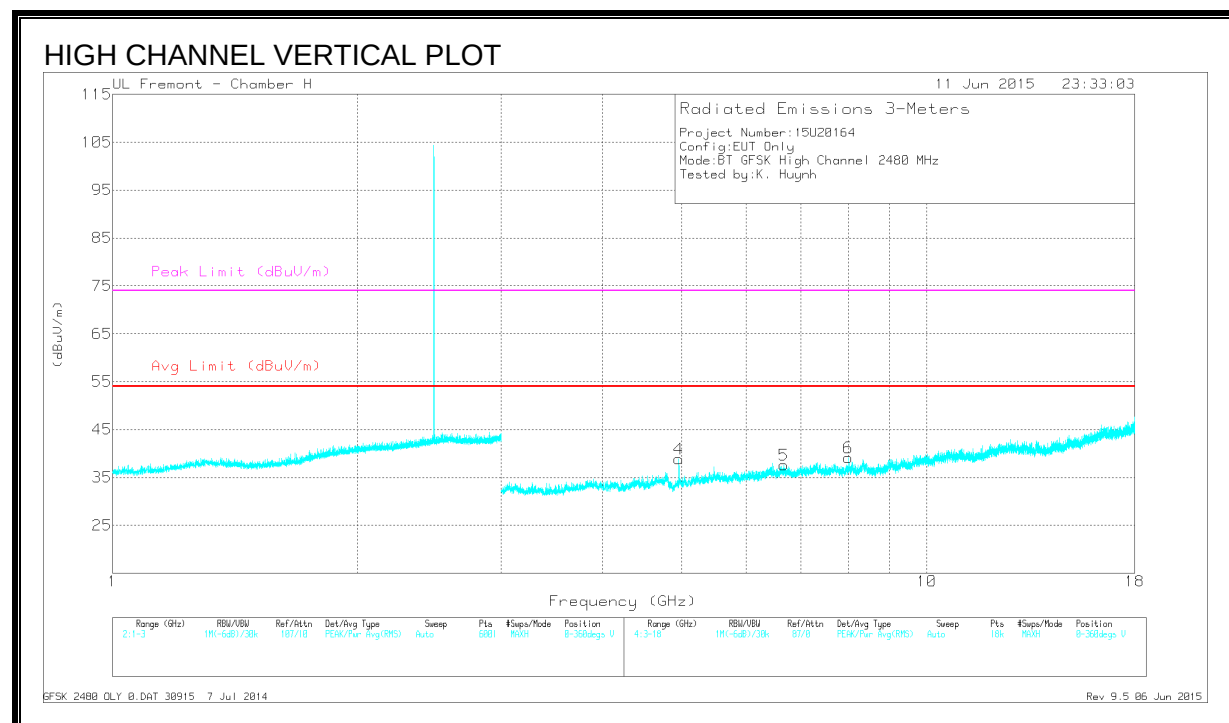
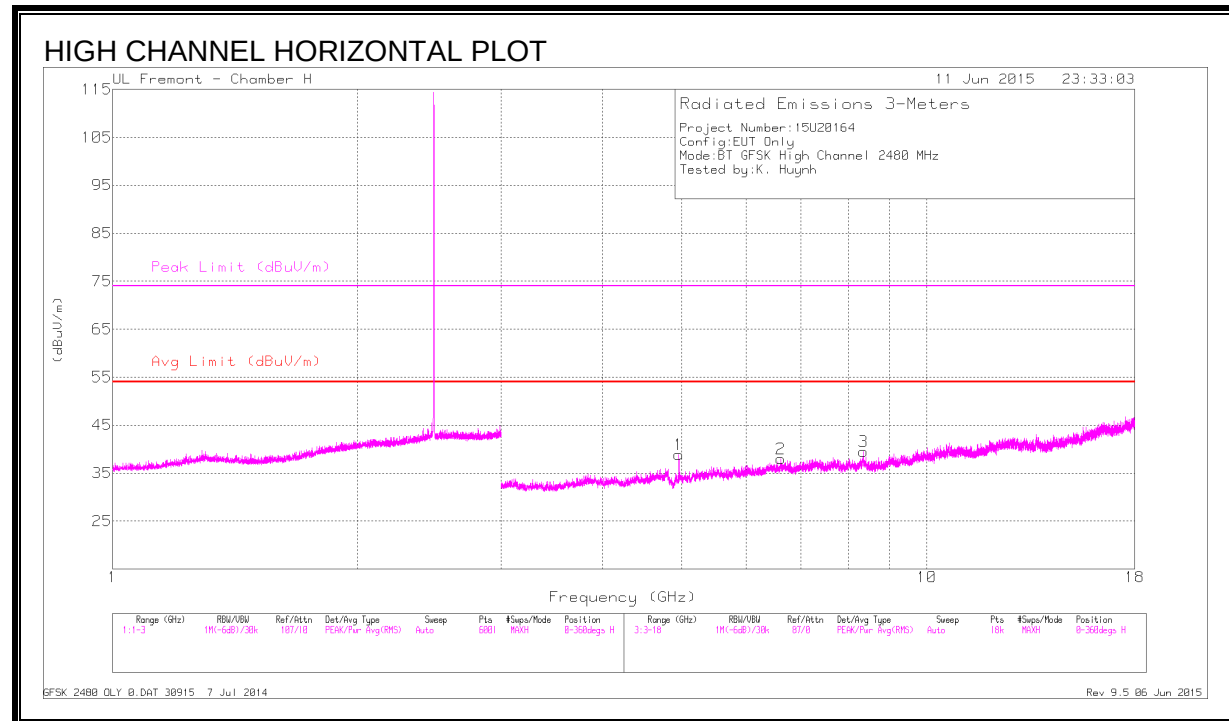
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 7.7	38.85	PK3	35.9	-28.5	46.25	-	-	74	-27.75	263	222	H
	* 7.696	26.62	VB10	35.9	-28.6	33.92	54	-20.08	-	-	263	222	H
4	* 4.777	41.2	PK3	34.2	-32.2	43.2	-	-	74	-30.8	269	224	V
	* 4.776	29.85	VB10	34.2	-32.2	31.85	54	-22.15	-	-	269	224	V
6	* 7.699	38.94	PK3	35.9	-28.5	46.34	-	-	74	-27.66	292	157	V
	* 7.7	26.63	VB10	35.9	-28.5	34.03	54	-19.97	-	-	292	157	V
1	5.484	40.22	PK3	35.5	-31.4	44.32	-	-	74	-29.68	200	376	H
5	6.695	38.81	PK3	35.8	-29.5	45.11	-	-	74	-28.89	277	215	V
2	7.074	38.61	PK3	35.8	-29.6	44.81	-	-	74	-29.19	229	191	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.96	44.41	PK3	34.2	-31.8	46.81	-	-	74	-27.19	321	285	H
	* 4.96	38.06	VB10	34.2	-31.8	40.46	54	-13.54	-	-	321	285	H
3	* 8.353	38.01	PK3	35.9	-27.5	46.41	-	-	74	-27.59	182	230	H
	* 8.35	26.29	VB10	35.9	-27.4	34.79	54	-19.21	-	-	182	230	H
4	* 4.96	43.53	PK3	34.2	-31.8	45.93	-	-	74	-28.07	254	243	V
	* 4.96	36.12	VB10	34.2	-31.8	38.52	54	-15.48	-	-	254	243	V
2	6.619	40.01	PK3	35.8	-30.8	45.01	-	-	74	-28.99	110	169	H
5	6.674	39.19	PK3	35.8	-29.7	45.29	-	-	74	-28.71	296	164	V
6	8.012	38.81	PK3	35.9	-28.2	46.51	-	-	74	-27.49	264	188	V

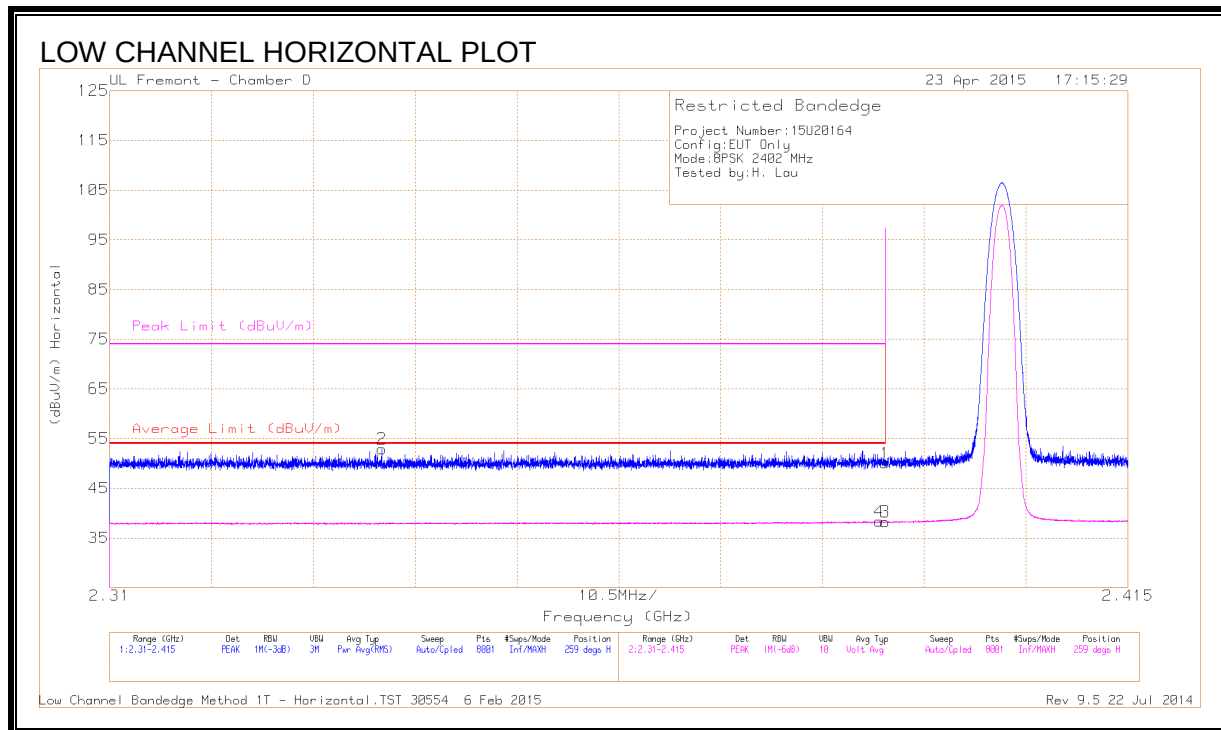
* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

9.2.2. HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



DATA

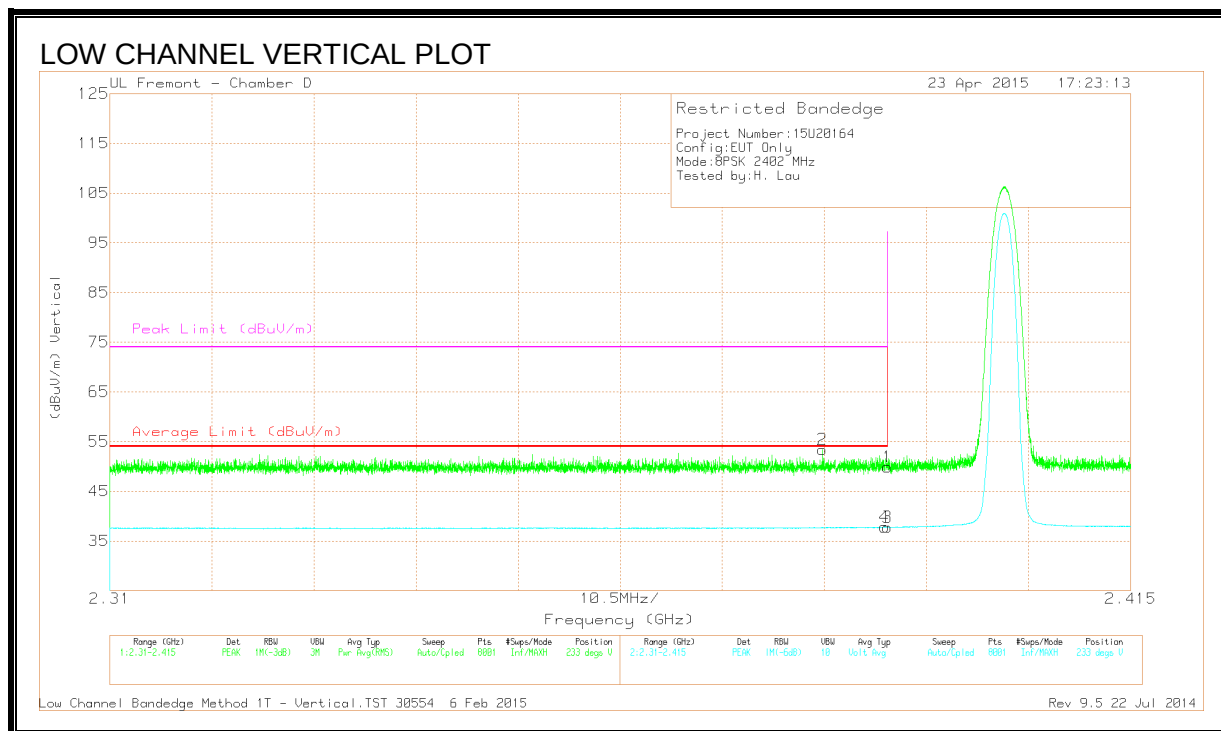
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT344 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.67	PK	32.1	-20.7	0	50.07	-	-	74	-23.93	259	279	H
2	* 2.338	41.83	PK	32	-20.9	0	52.93	-	-	74	-21.07	259	279	H
3	* 2.39	26.87	VB1T	32.1	-20.7	0	38.27	54	-15.73	-	-	259	279	H
4	* 2.389	26.93	VB1T	32.1	-20.7	0	38.33	54	-15.67	-	-	259	279	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEGE (LOW CHANNEL, VERTICAL)



DATA

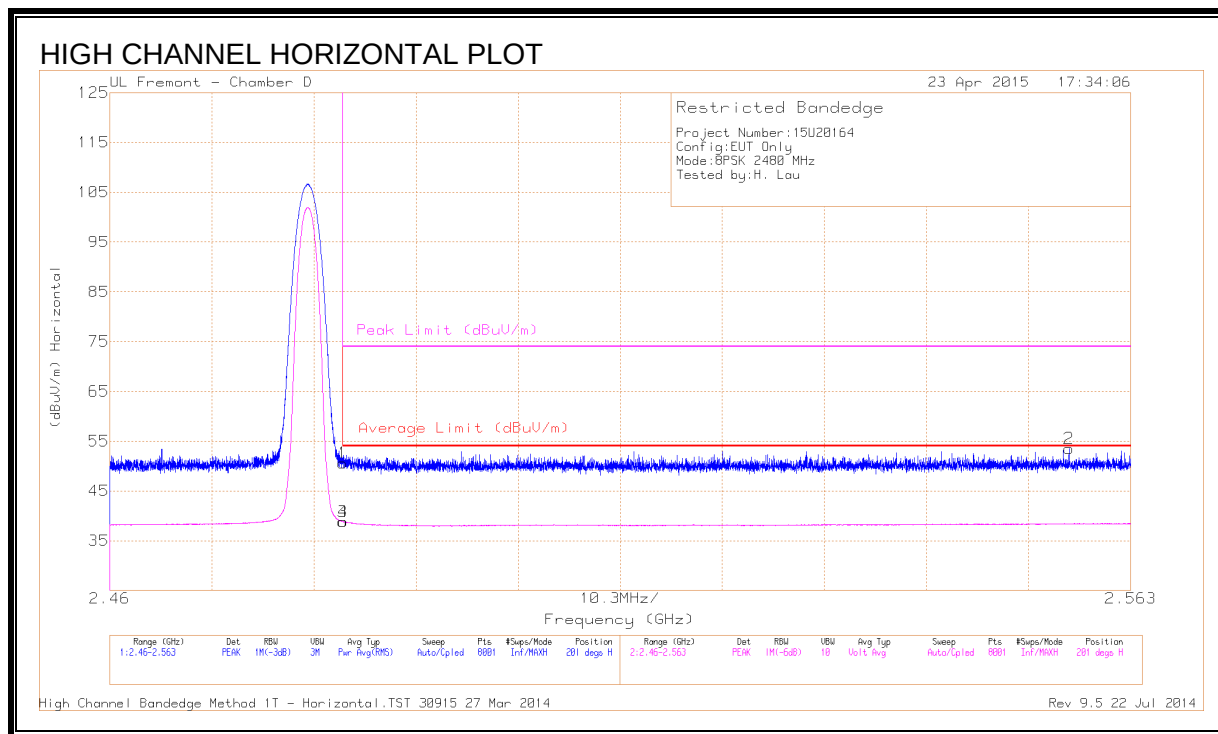
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Fltr/Pad (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.51	PK	32.1	-20.7	49.91	-	-	74	-24.09	233	285	V
2	* 2.383	42.1	PK	32.1	-20.8	53.4	-	-	74	-20.6	233	285	V
3	* 2.39	26.82	VB1T	32.1	-20.7	38.22	54	-15.78	-	-	233	285	V
4	* 2.39	26.86	VB1T	32.1	-20.7	38.26	54	-15.74	-	-	233	285	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEGE (HIGH CHANNEL, HORIZONTAL)



DATA

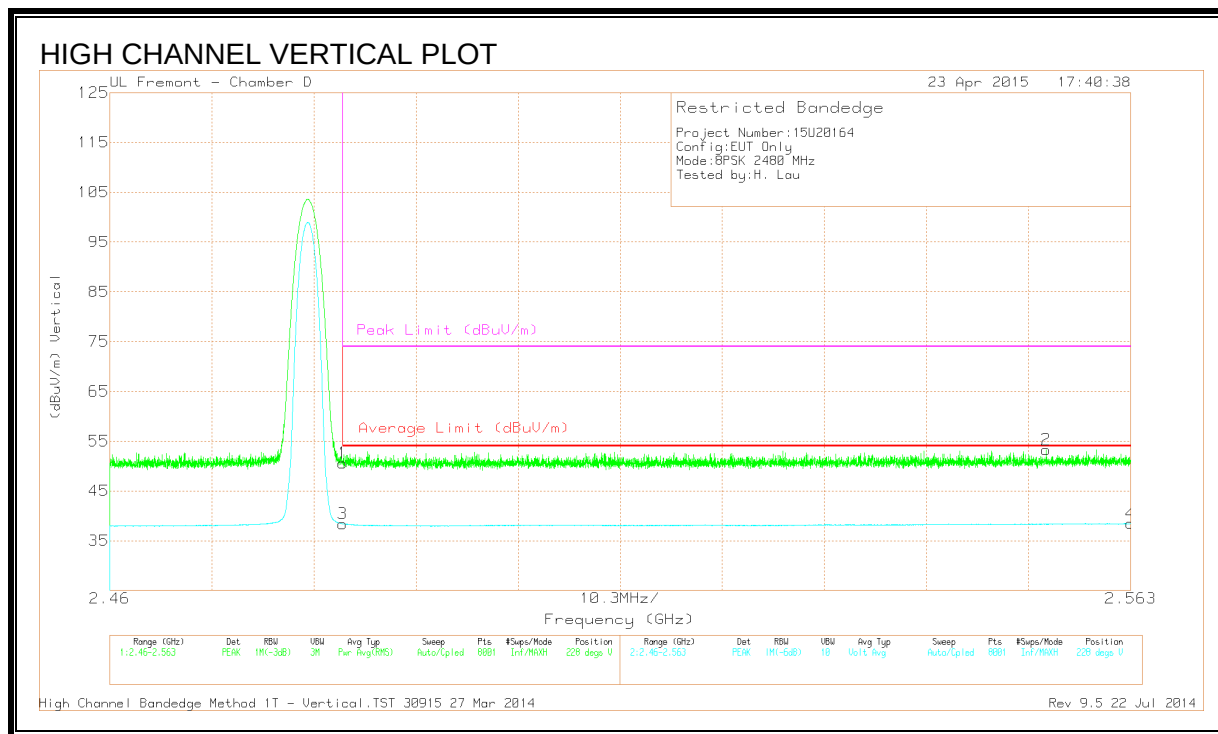
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT344 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.23	PK	32.2	-20.8	50.63	-	-	74	-23.37	201	136	H
3	* 2.484	28.28	VB1T	32.2	-20.8	39.68	54	-14.32	-	-	201	136	H
4	* 2.484	28.15	VB1T	32.2	-20.8	39.55	54	-14.45	-	-	201	136	H
2	2.557	41.92	PK	32.3	-20.7	53.52	-	-	74	-20.48	201	136	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



DATA

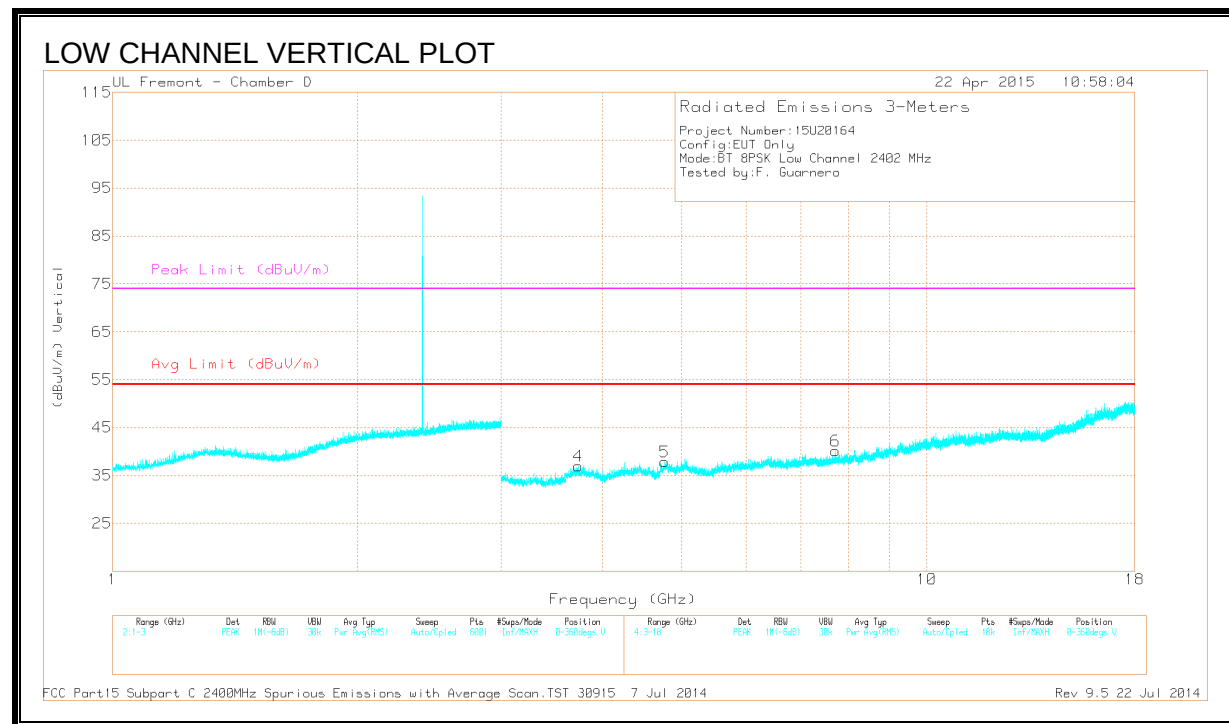
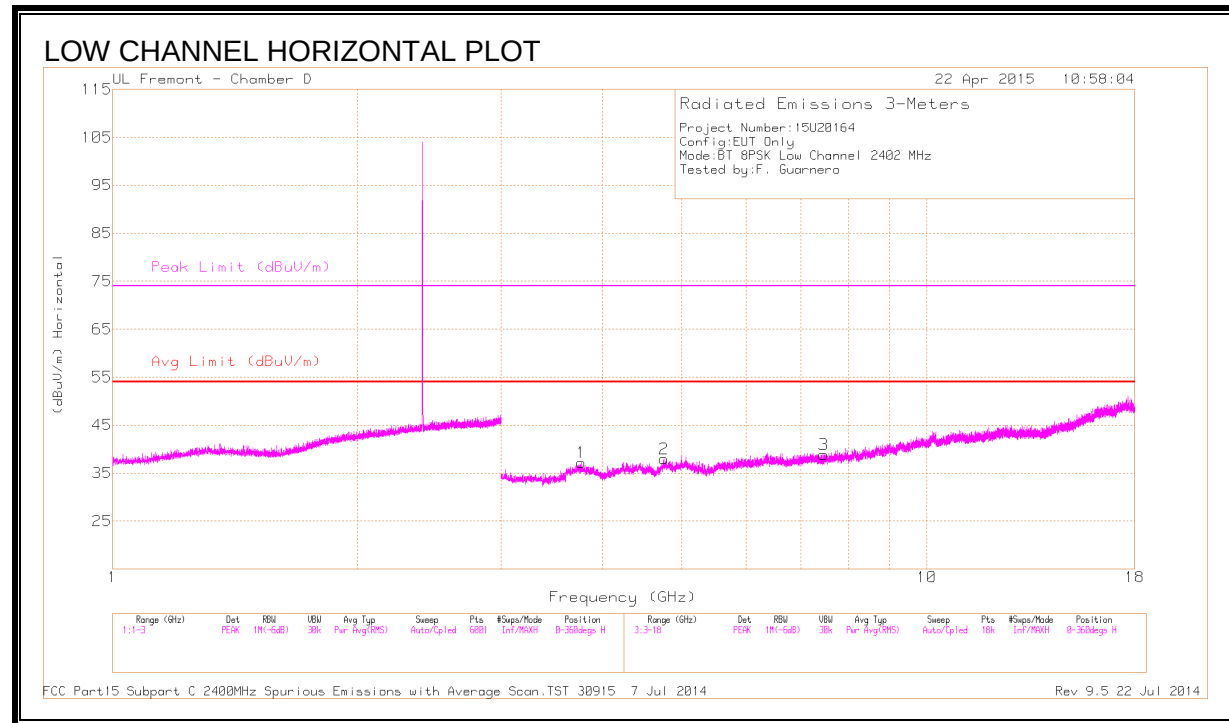
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.2	PK	32.2	-20.8	50.6	-	-	74	-23.4	228	259	V
3	* 2.484	27.01	VB1T	32.2	-20.8	38.41	54	-15.59	-	-	228	259	V
2	2.554	41.7	PK	32.3	-20.7	53.3	-	-	74	-20.7	228	259	V
4	2.563	26.76	VB1T	32.3	-20.6	38.46	54	-15.54	-	-	228	259	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

HARMONICS AND SPURIOUS EMISSIONS



DATA

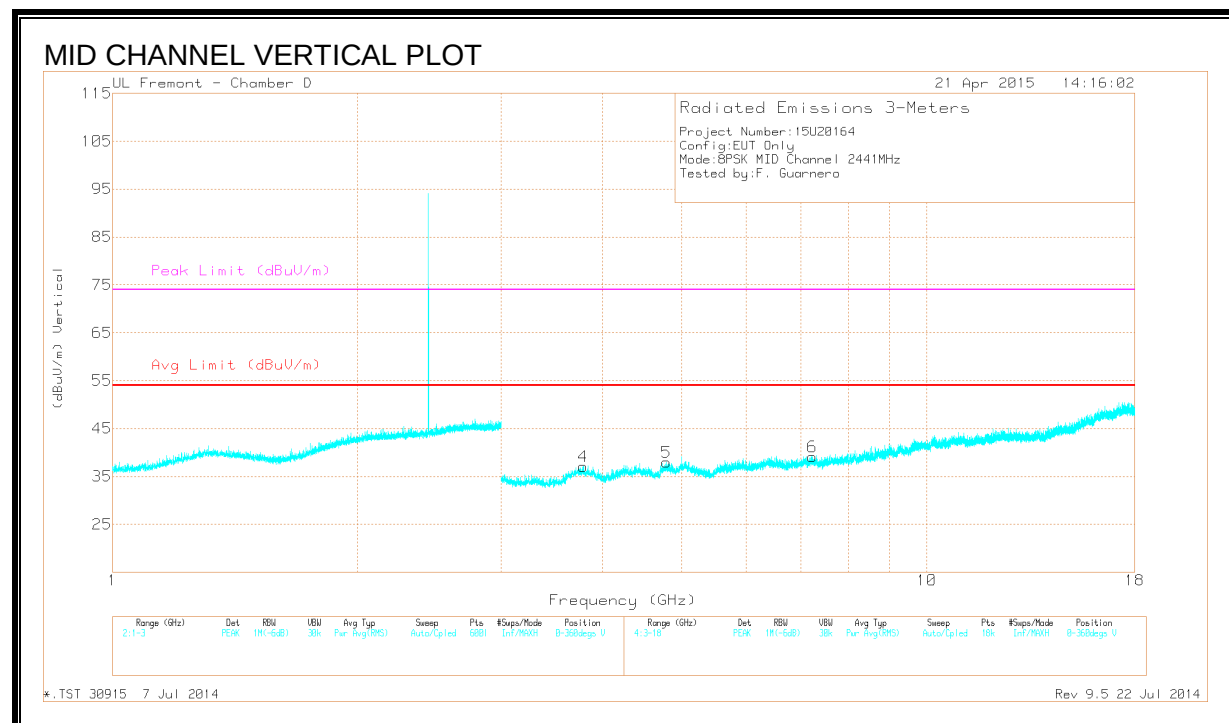
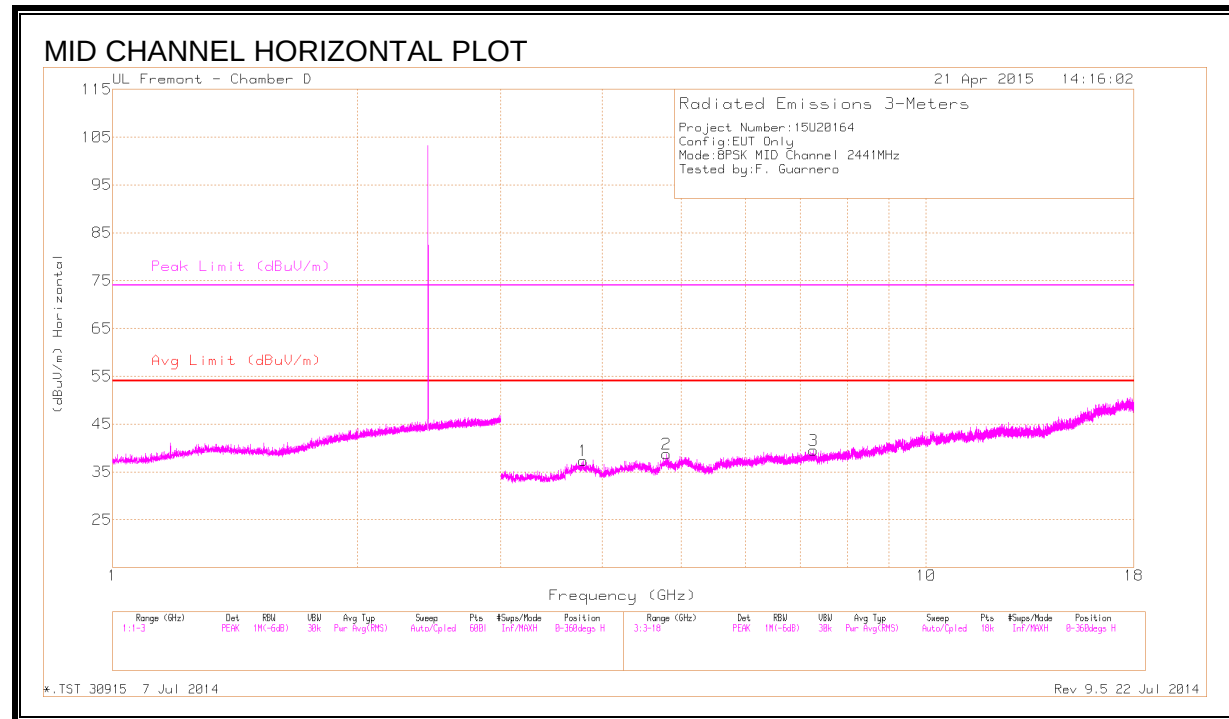
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT344 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.761	37.84	PK3	33.3	-28.4	42.74	-	-	74	-31.26	336	155	H
	* 3.764	25.35	VB10	33.3	-28.3	30.35	54	-23.65	-	-	336	155	H
2	* 4.805	36.66	PK3	34.1	-27	43.76	-	-	74	-30.24	324	378	H
	* 4.802	24.43	VB10	34.1	-26.9	31.63	54	-22.37	-	-	324	378	H
3	* 7.468	35.48	PK3	35.5	-24.7	46.28	-	-	74	-27.72	285	222	H
	* 7.469	22.7	VB10	35.5	-24.7	33.5	54	-20.5	-	-	285	222	H
4	* 3.731	38.09	PK3	33.2	-28.6	42.69	-	-	74	-31.31	147	180	V
	* 3.732	25.73	VB10	33.2	-28.6	30.33	54	-23.67	-	-	147	180	V
5	* 4.802	37.07	PK3	34.1	-26.9	44.27	-	-	74	-29.73	92	373	V
	* 4.802	24.46	VB10	34.1	-26.9	31.66	54	-22.34	-	-	92	373	V
6	* 7.718	36.14	PK3	35.6	-25	46.74	-	-	74	-27.26	182	233	V
	* 7.719	23.43	VB10	35.6	-25	34.03	54	-19.97	-	-	182	233	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS



DATA

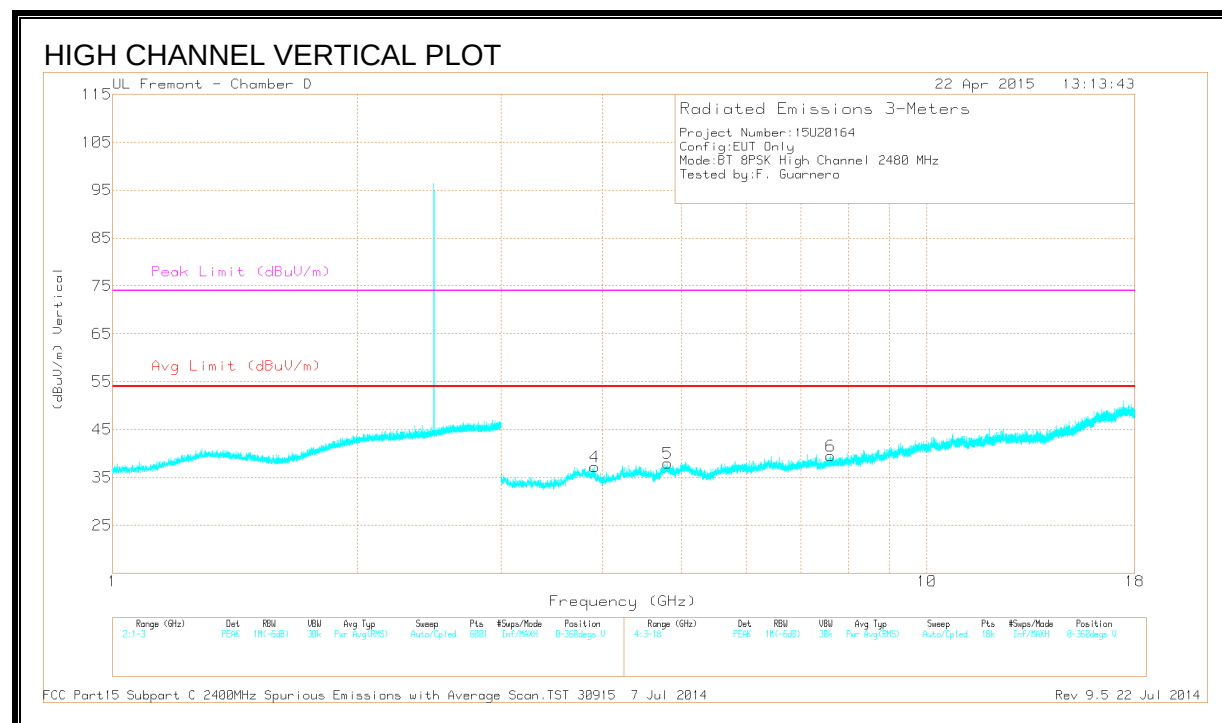
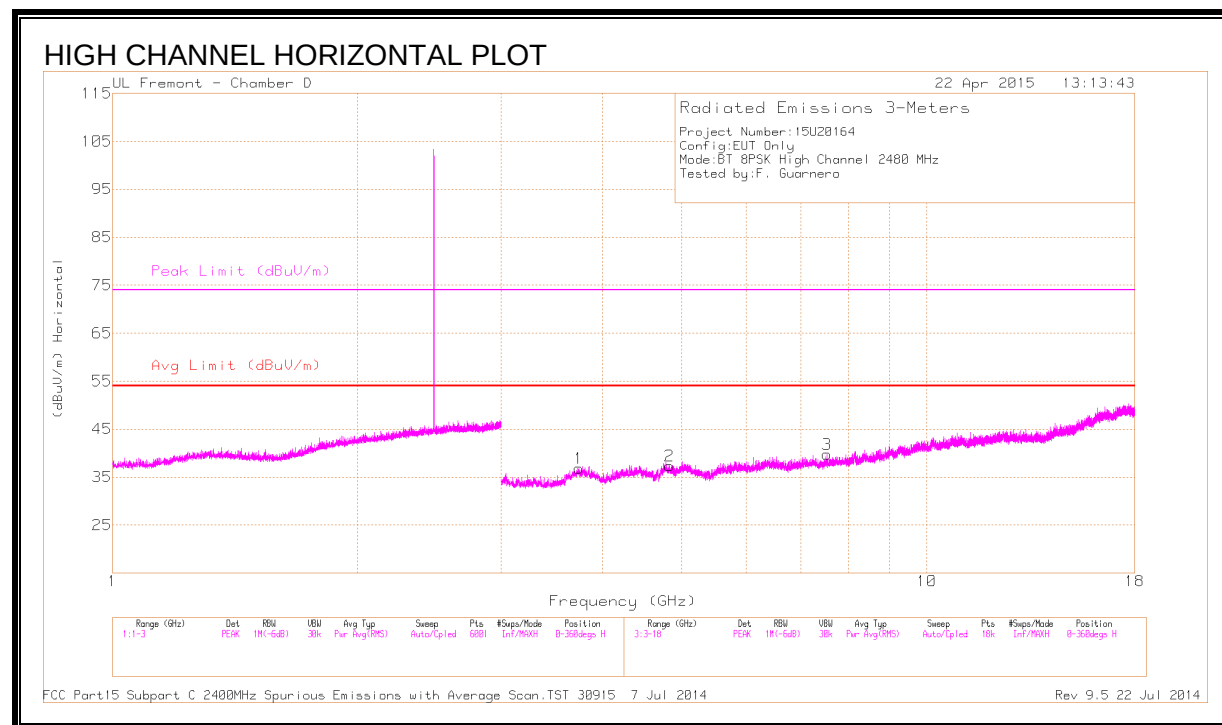
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.788	38.16	PK3	33.3	-28.3	43.16	-	-	74	-30.84	178	131	H
	* 3.790	25.8	VB10	33.3	-28.3	30.8	54	-23.2	-	-	178	131	H
2	* 4.881	41.87	PK3	34.1	-28.2	47.77	-	-	74	-26.23	316	190	H
	* 4.882	29.17	VB10	34.1	-28.2	35.07	54	-18.93	-	-	316	190	H
3	* 7.319	35.85	PK3	35.5	-25.1	46.25	-	-	74	-27.75	148	205	H
	* 7.320	23.48	VB10	35.5	-25.3	33.68	54	-20.32	-	-	148	205	H
4	* 3.783	39	PK3	33.3	-28.2	44.1	-	-	74	-29.9	33	199	V
	* 3.787	25.7	VB10	33.3	-28.2	30.8	54	-23.2	-	-	33	199	V
5	* 4.884	38.08	PK3	34.1	-28.2	43.98	-	-	74	-30.02	63	231	V
	* 4.882	25.17	VB10	34.1	-28.2	31.07	54	-22.93	-	-	63	231	V
6	* 7.326	35.96	PK3	35.5	-25.2	46.26	-	-	74	-27.74	0	183	V
	* 7.328	23.48	VB10	35.5	-25.3	33.68	54	-20.32	-	-	0	183	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT344 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.738	38.72	PK3	33.2	-28.6	43.32	-	-	74	-30.68	209	247	H
	* 3.736	25.62	VB10	33.2	-28.6	30.22	54	-23.78	-	-	209	247	H
2	* 4.96	41.8	PK3	34.2	-27.7	48.3	-	-	74	-25.7	235	199	H
	* 4.96	29.22	VB10	34.2	-27.7	35.72	54	-18.28	-	-	235	199	H
3	* 7.44	36.07	PK3	35.5	-25	46.57	-	-	74	-27.43	239	278	H
	* 7.44	22.88	VB10	35.5	-25	33.38	54	-20.62	-	-	239	278	H
4	* 3.91	38.05	PK3	33.4	-28.2	43.25	-	-	74	-30.75	21	204	V
	* 3.91	25.35	VB10	33.4	-28.2	30.55	54	-23.45	-	-	21	204	V
5	* 4.959	36.96	PK3	34.2	-27.7	43.46	-	-	74	-30.54	343	217	V
	* 4.958	24.84	VB10	34.2	-27.7	31.34	54	-22.66	-	-	343	217	V
6	* 7.442	35.51	PK3	35.5	-25	46.01	-	-	74	-27.99	228	366	V
	* 7.440	22.84	VB10	35.5	-25	33.34	54	-20.66	-	-	228	366	V

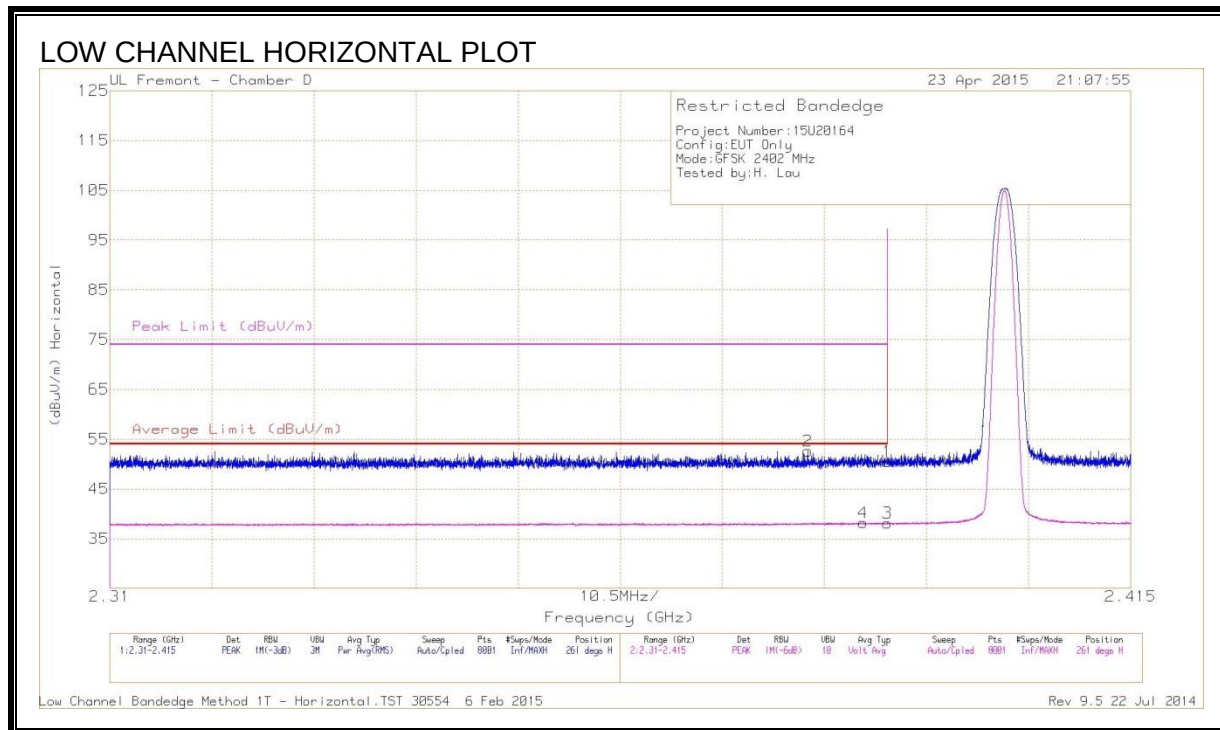
* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

9.2.3. LOW POWER BASIC DATA RATE GFSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



DATA

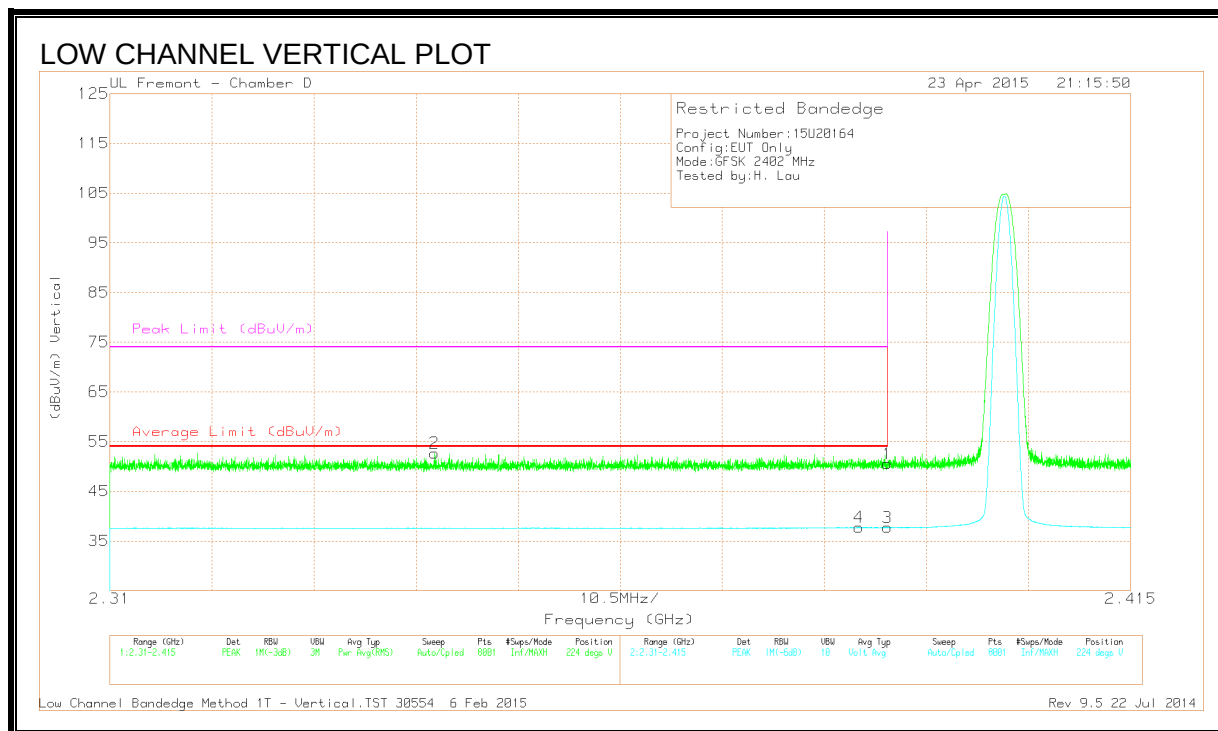
Mark er	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT344 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Correct ed Reading (dBuV/ m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimu t (Degs)	Heigh t (cm)	Polarit y
1	* 2.39	39.09	PK	32.1	-20.7	0	50.49	-	-	74	-23.51	261	277	H
2	* 2.382	41.3	PK	32.1	-20.8	0	52.6	-	-	74	-21.4	261	277	H
3	* 2.39	26.76	VB1T	32.1	-20.7	0	38.16	54	-15.84	-	-	261	277	H
4	* 2.382	26.91	VB1T	32.1	-20.8	0	38.21	54	-15.79	-	-	261	277	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEGE (LOW CHANNEL, VERTICAL)



DATA

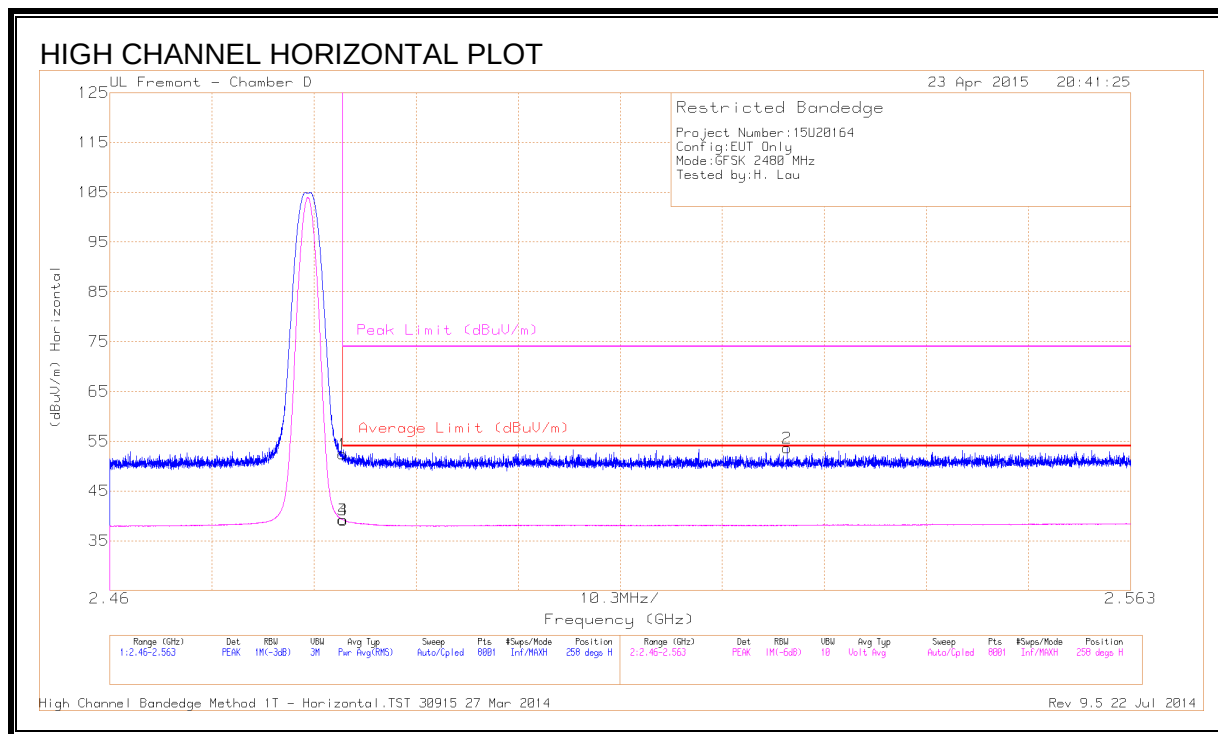
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Fltr/Pad (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.15	PK	32.1	-20.7	50.55	-	-	74	-23.45	224	286	V
2	* 2.343	41.58	PK	32	-20.9	52.68	-	-	74	-21.32	224	286	V
3	* 2.39	26.31	VB1T	32.1	-20.7	37.71	54	-16.29	-	-	224	286	V
4	* 2.343	26.46	VB1T	32.1	-20.8	37.76	54	-16.24	-	-	224	286	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEGE (HIGH CHANNEL, HORIZONTAL)



DATA

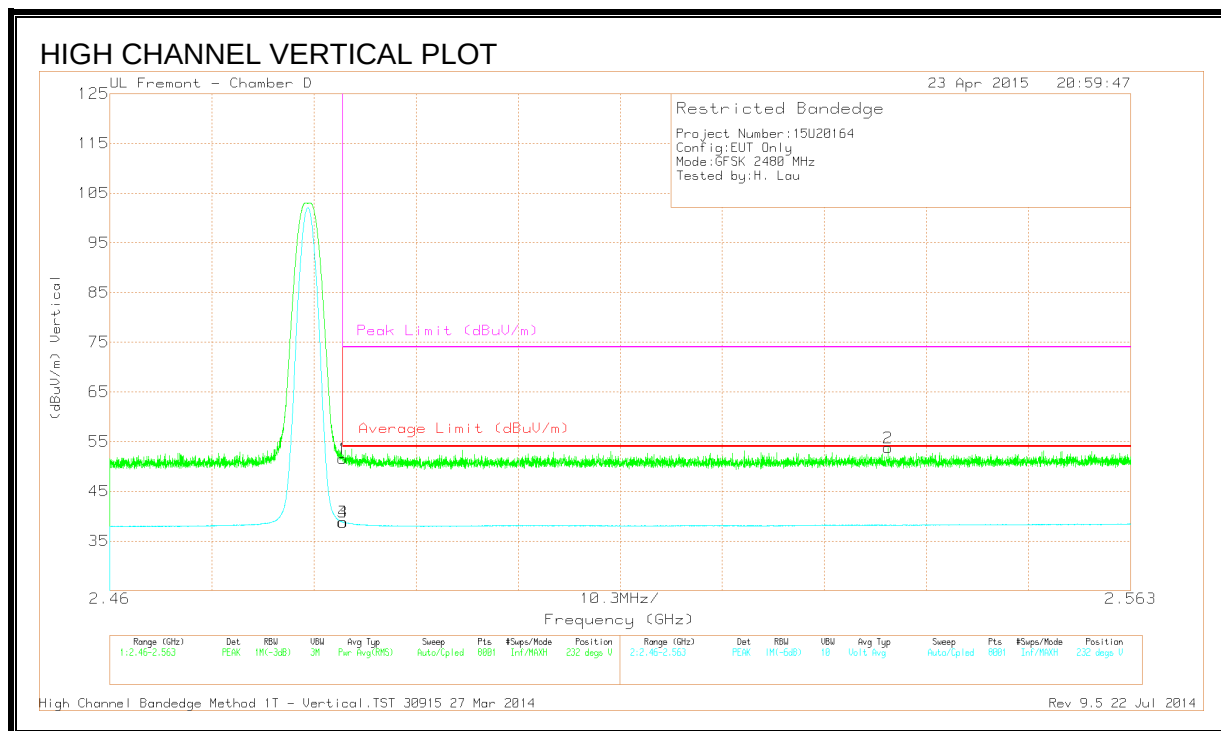
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT344 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41	PK	32.2	-20.8	52.4	-	-	74	-21.6	258	262	H
3	* 2.484	27.82	VB1T	32.2	-20.8	39.22	54	-14.78	-	-	258	262	H
4	* 2.484	27.76	VB1T	32.2	-20.8	39.16	54	-14.84	-	-	258	262	H
2	2.528	42	PK	32.3	-20.7	53.6	-	-	74	-20.4	258	262	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEGE (HIGH CHANNEL, VERTICAL)



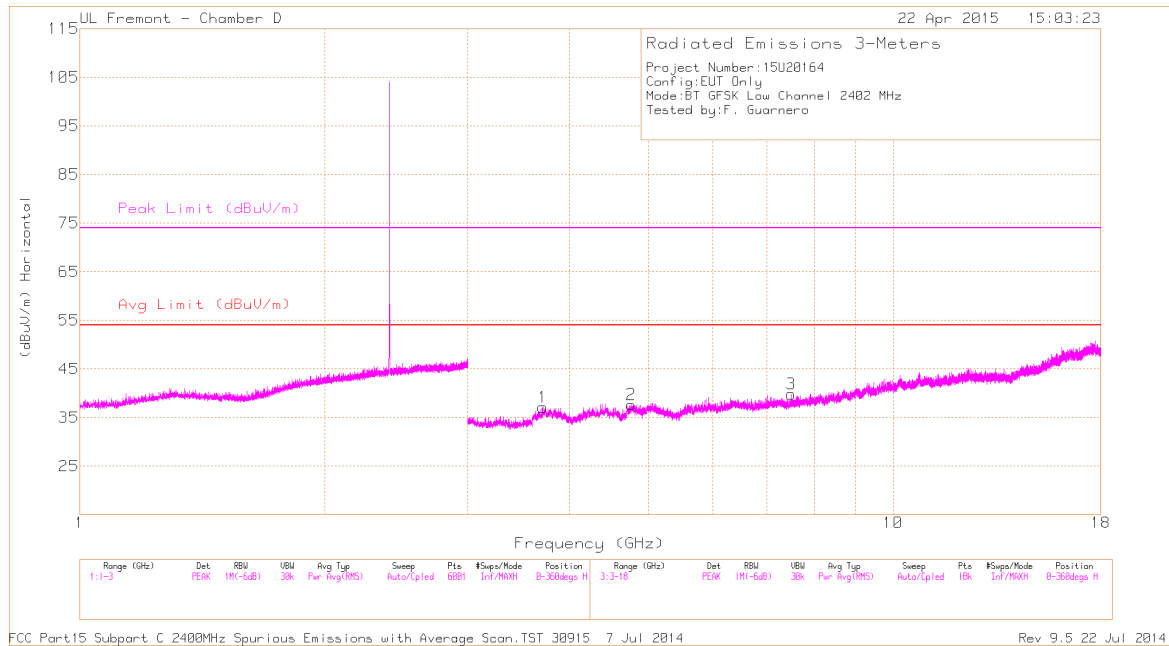
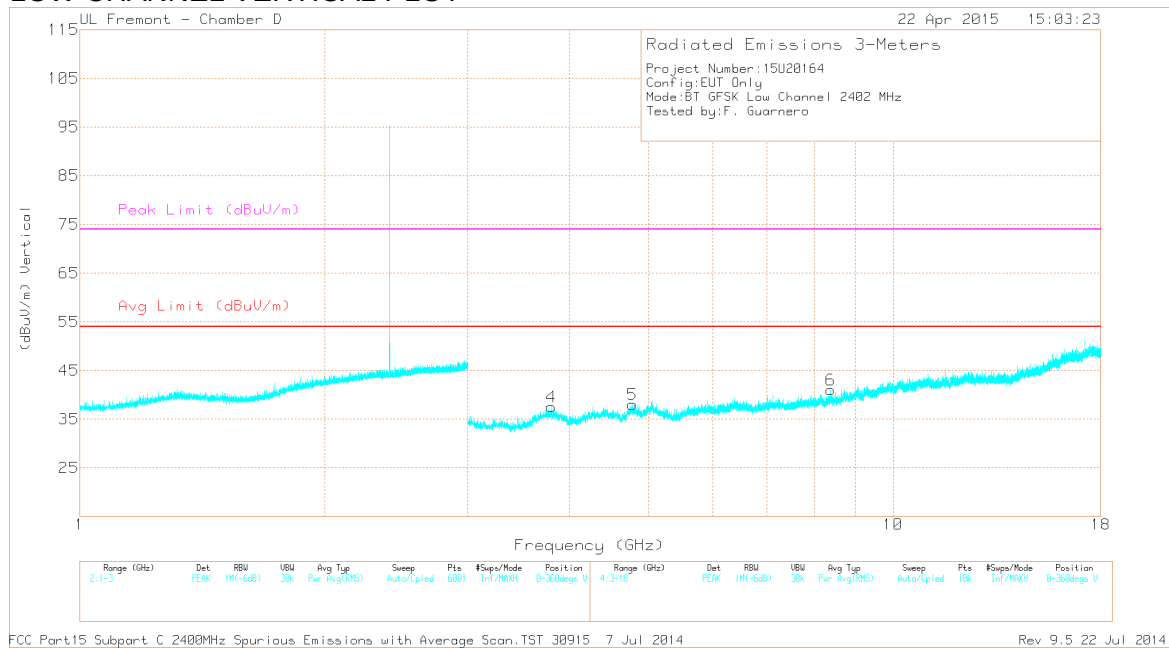
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Fltr/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	* 2.484	40.16	PK	32.2	-20.8	51.56	-	-	74	-22.44	232	329	V
3	* 2.484	27.4	VB1T	32.2	-20.8	38.8	54	-15.2	-	-	232	329	V
4	* 2.484	27.4	VB1T	32.2	-20.8	38.8	54	-15.2	-	-	232	329	V
2	2.539	42.14	PK	32.3	-20.7	53.74	-	-	74	-20.26	232	329	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL HORIZONTAL PLOT****LOW CHANNEL VERTICAL PLOT**

DATA

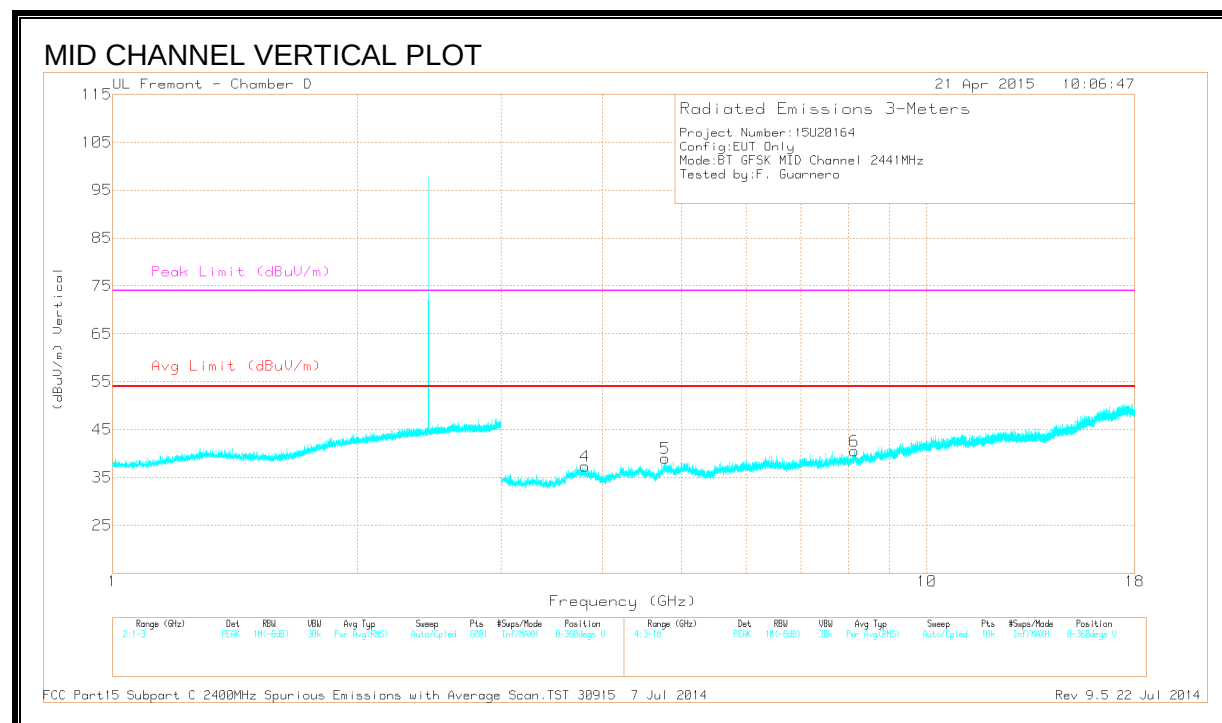
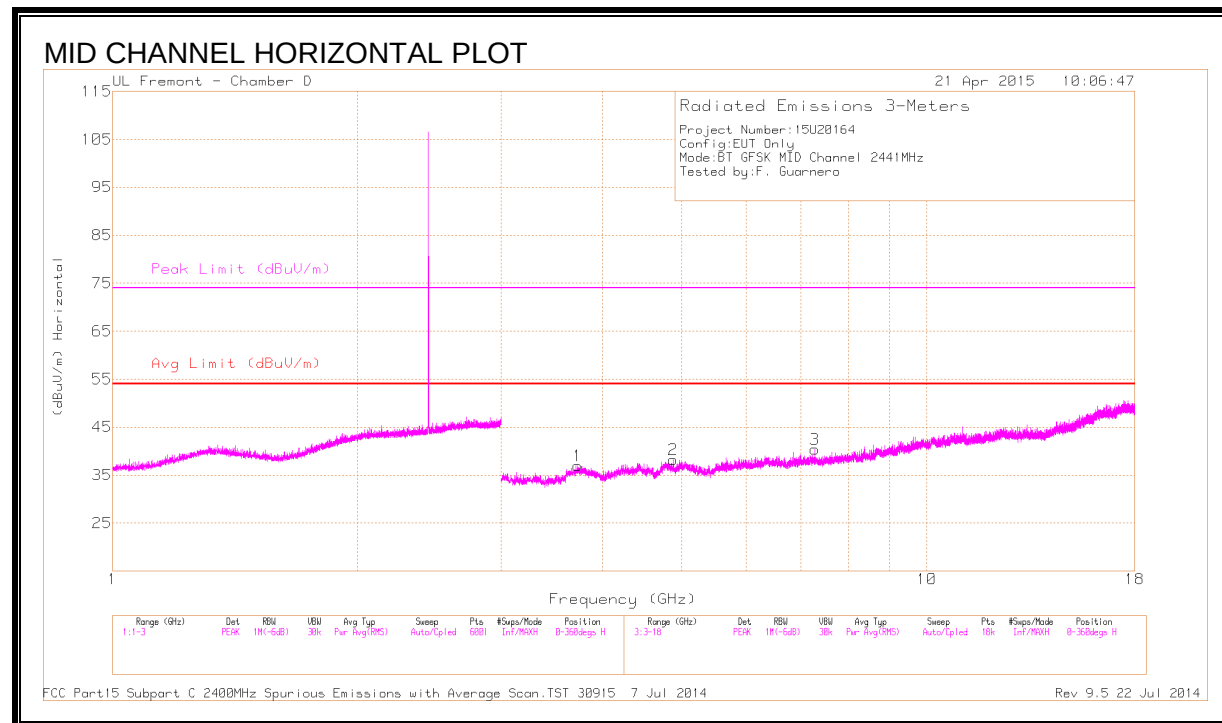
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT344 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.71	38.14	PK3	33.2	-29	42.34	-	-	74	-31.66	263	188	H
	* 3.71	25.92	VB10	33.2	-29	30.12	54	-23.88	-	-	263	188	H
2	* 4.805	41.67	PK3	34.1	-27	48.77	-	-	74	-25.23	171	109	H
	* 4.804	29.7	VB10	34.1	-27	36.8	54	-17.2	-	-	171	109	H
3	* 7.488	36.47	PK3	35.5	-25	46.97	-	-	74	-27.03	342	110	H
	* 7.491	23.2	VB10	35.5	-25	33.7	54	-20.3	-	-	342	110	H
4	* 3.801	39.43	PK3	33.3	-28.4	44.33	-	-	74	-29.67	114	186	V
	* 3.803	25.77	VB10	33.3	-28.4	30.67	54	-23.33	-	-	114	186	V
5	* 4.804	38.91	PK3	34.1	-27	46.01	-	-	74	-27.99	185	269	V
	* 4.804	29.01	VB10	34.1	-27	36.11	54	-17.89	-	-	185	269	V
6	* 8.382	35.67	PK3	35.7	-23	48.37	-	-	74	-25.63	47	180	V
	* 8.382	22.42	VB10	35.7	-23	35.12	54	-18.88	-	-	47	180	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS



DATA

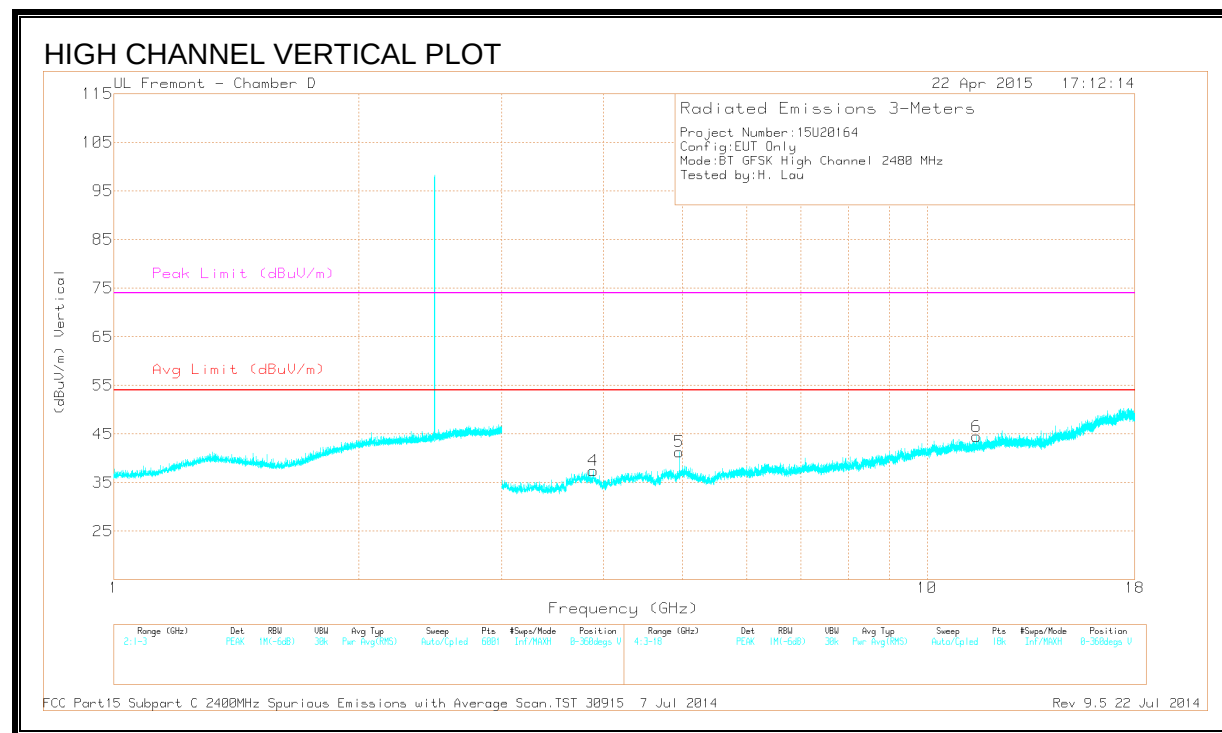
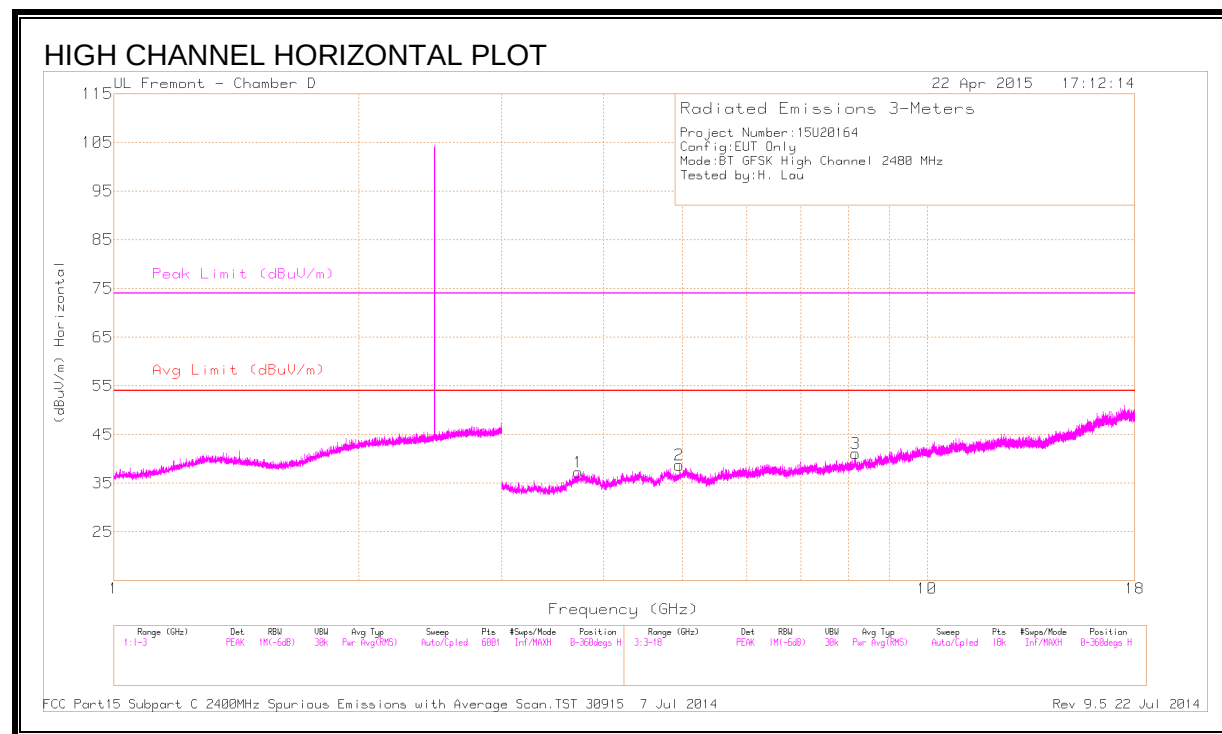
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.882	39.56	PK3	34.1	-28.2	45.46	-	-	74	-28.54	27	226	H
	* 4.882	27.45	VB10	34.1	-28.2	33.35	54	-20.65	-	-	27	226	H
2	* 3.725	39.22	PK3	33.2	-28.7	43.72	-	-	74	-30.28	33	233	H
	* 3.727	26.15	VB10	33.2	-28.7	30.65	54	-23.35	-	-	33	233	H
3	* 7.286	37.12	PK3	35.5	-25	47.62	-	-	74	-26.38	24	227	H
	* 7.285	23.59	VB10	35.5	-25	34.09	54	-19.91	-	-	24	227	H
4	* 4.882	38.75	PK3	34.1	-28.2	44.65	-	-	74	-29.35	281	237	V
	* 4.882	29.06	VB10	34.1	-28.2	34.96	54	-19.04	-	-	281	237	V
5	* 3.803	38.23	PK3	33.4	-28.4	43.23	-	-	74	-30.77	276	230	V
	* 3.804	25.9	VB10	33.4	-28.4	30.9	54	-23.1	-	-	276	230	V
6	* 8.14	35.07	PK3	35.6	-23.1	47.57	-	-	74	-26.43	283	238	V
	* 8.14	22.47	VB10	35.6	-23.1	34.97	54	-19.03	-	-	283	238	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.728	38.71	PK3	33.2	-28.7	43.21	-	-	74	-30.79	291	180	H
	* 3.727	25.81	VB10	33.2	-28.7	30.31	54	-23.69	-	-	291	180	H
2	* 4.96	40.05	PK3	34.2	-27.7	46.55	-	-	74	-27.45	197	181	H
	* 4.96	29.85	VB10	34.2	-27.7	36.35	54	-17.65	-	-	197	181	H
3	* 8.168	35.24	PK3	35.6	-23.5	47.34	-	-	74	-26.66	134	143	H
	* 8.168	22.44	VB10	35.6	-23.5	34.54	54	-19.46	-	-	134	143	H
4	* 3.888	38.58	PK3	33.4	-28.3	43.68	-	-	74	-30.32	85	112	V
	* 3.889	25.85	VB10	33.4	-28.3	30.95	54	-23.05	-	-	85	112	V
5	* 4.96	41.35	PK3	34.2	-27.7	47.85	-	-	74	-26.15	208	207	V
	* 4.96	33.21	VB10	34.2	-27.7	39.71	54	-14.29	-	-	208	207	V
6	* 11.504	35.22	PK3	38.1	-21.2	52.12	-	-	74	-21.88	304	178	V
	* 11.504	21.6	VB10	38.1	-21.2	38.5	54	-15.5	-	-	304	178	V

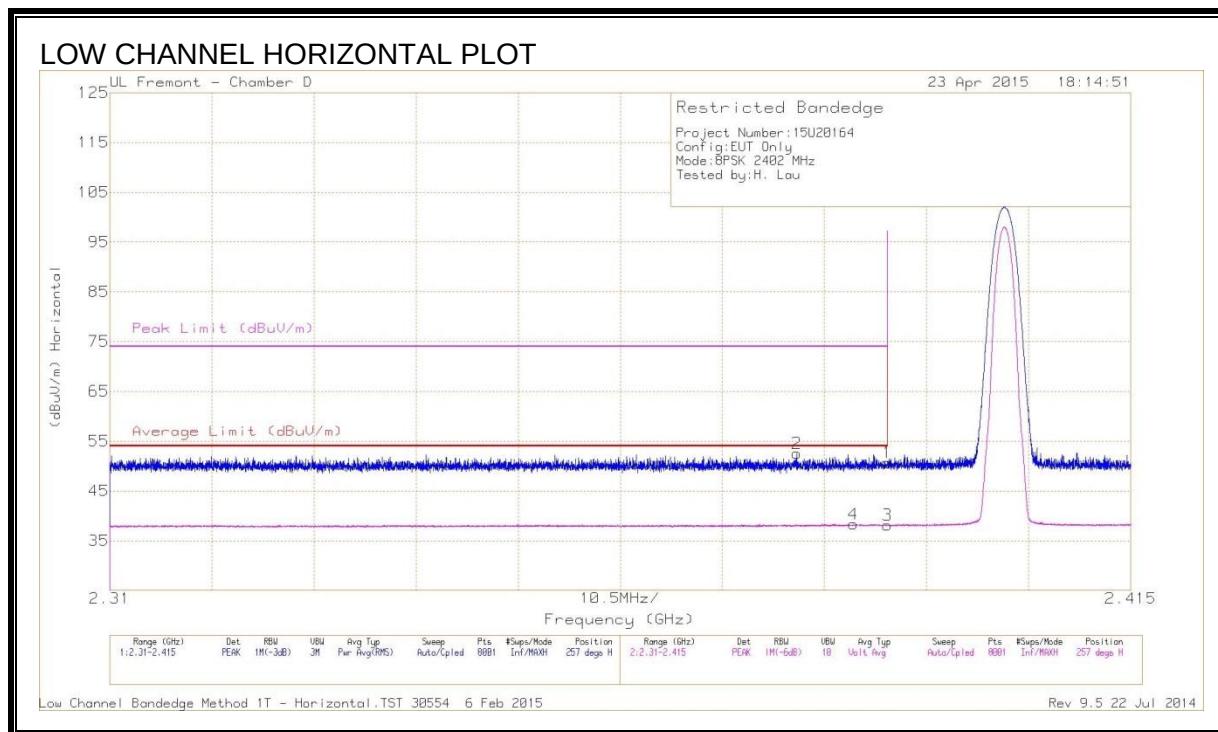
* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

9.2.4. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



DATA

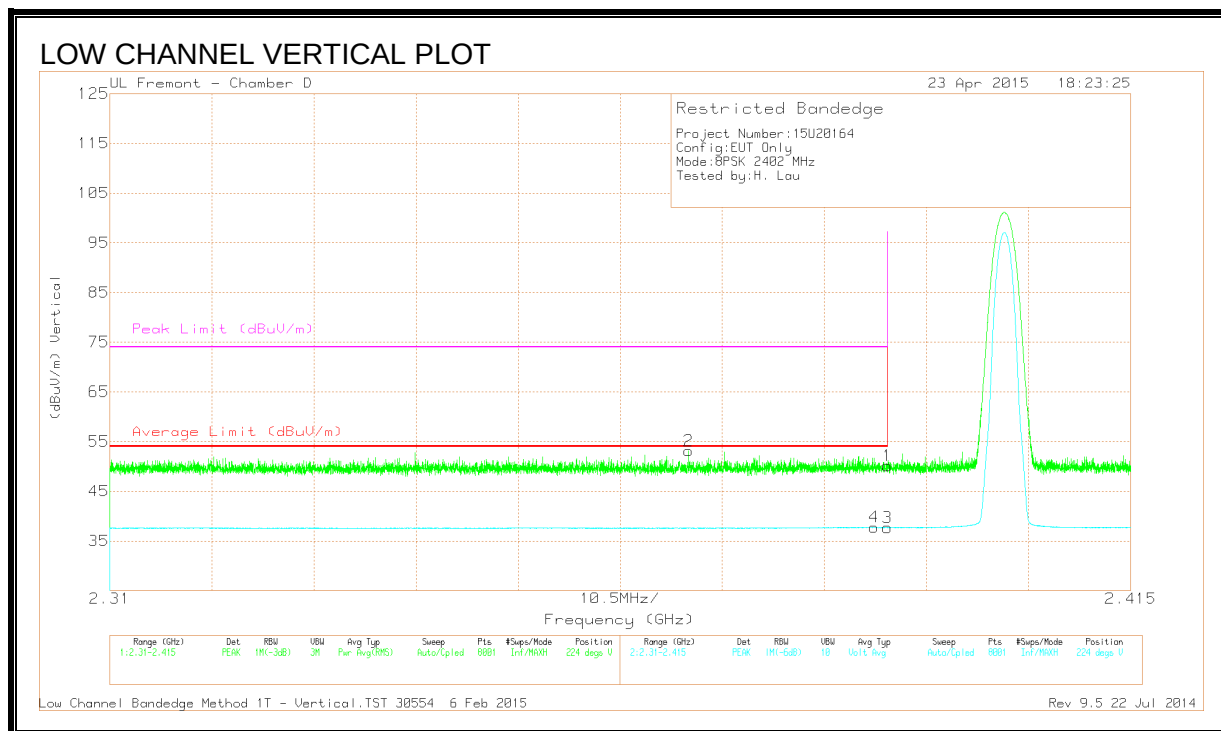
Mark er	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT344 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Correct ed Reading (dBuV/ m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimu t (Degs)	Heigh t (cm)	Polarit y
1	* 2.39	39.33	PK	32.1	-20.7	0	50.73	-	-	74	-23.27	257	275	H
2	* 2.381	41.25	PK	32.1	-20.8	0	52.55	-	-	74	-21.45	257	275	H
3	* 2.39	26.74	VB1T	32.1	-20.7	0	38.14	54	-15.86	-	-	257	275	H
4	* 2.386	27.04	VB1T	32.1	-20.8	0	38.34	54	-15.66	-	-	257	275	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEGE (LOW CHANNEL, VERTICAL)



DATA

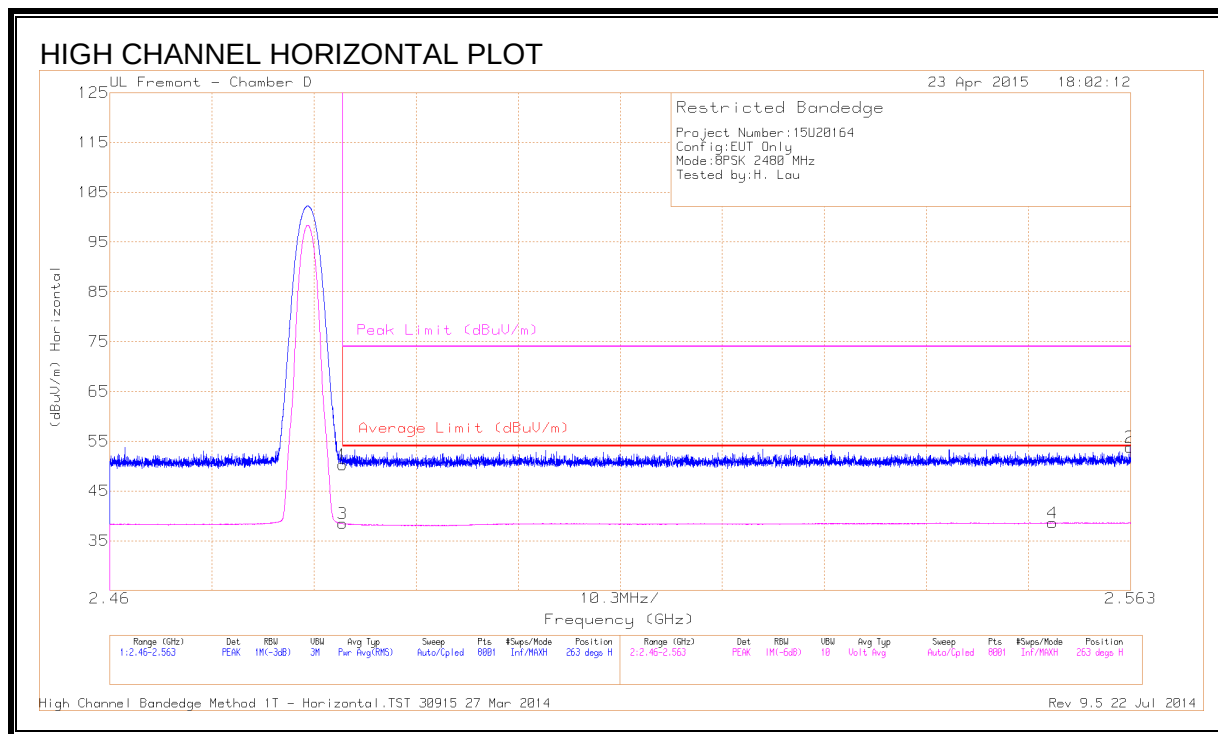
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Fltr/Pad (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.76	PK	32.1	-20.7	50.16	-	-	74	-23.84	224	284	V
2	* 2.37	42.05	PK	32	-20.9	53.15	-	-	74	-20.85	224	284	V
3	* 2.39	26.3	VB1T	32.1	-20.7	37.7	54	-16.3	-	-	224	284	V
4	* 2.389	26.4	VB1T	32.1	-20.7	37.8	54	-16.2	-	-	224	284	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEGE (HIGH CHANNEL, HORIZONTAL)



DATA

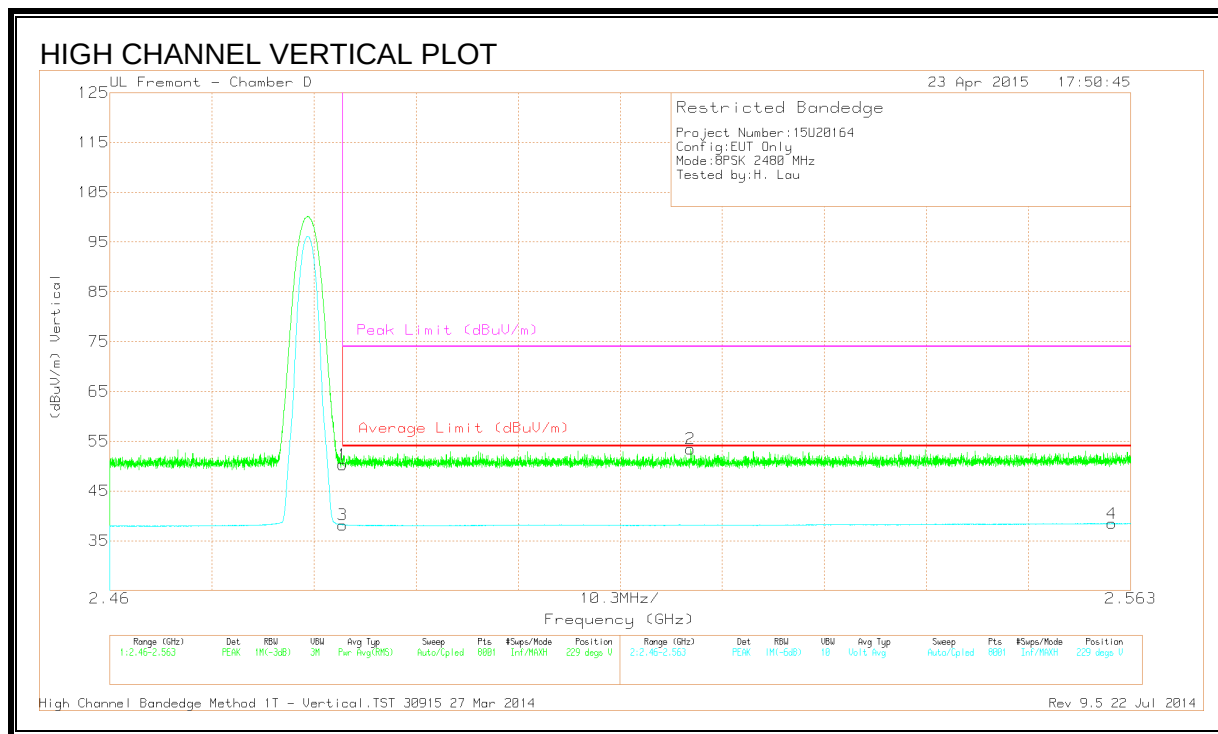
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.89	PK	32.2	-20.8	50.29	-	-	74	-23.71	263	262	H
3	* 2.484	27.05	VB1T	32.2	-20.8	38.45	54	-15.55	-	-	263	262	H
4	2.555	27	VB1T	32.3	-20.7	38.6	54	-15.4	-	-	263	262	H
2	2.563	42.09	PK	32.3	-20.6	53.79	-	-	74	-20.21	263	262	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



DATA

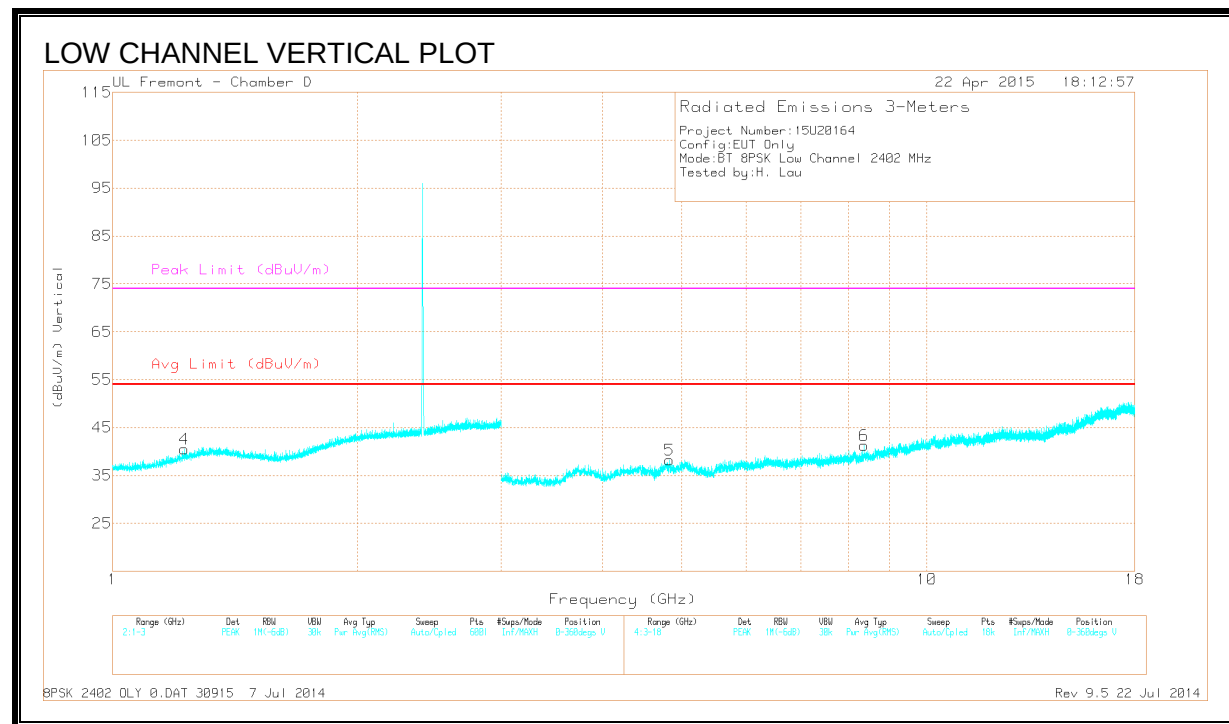
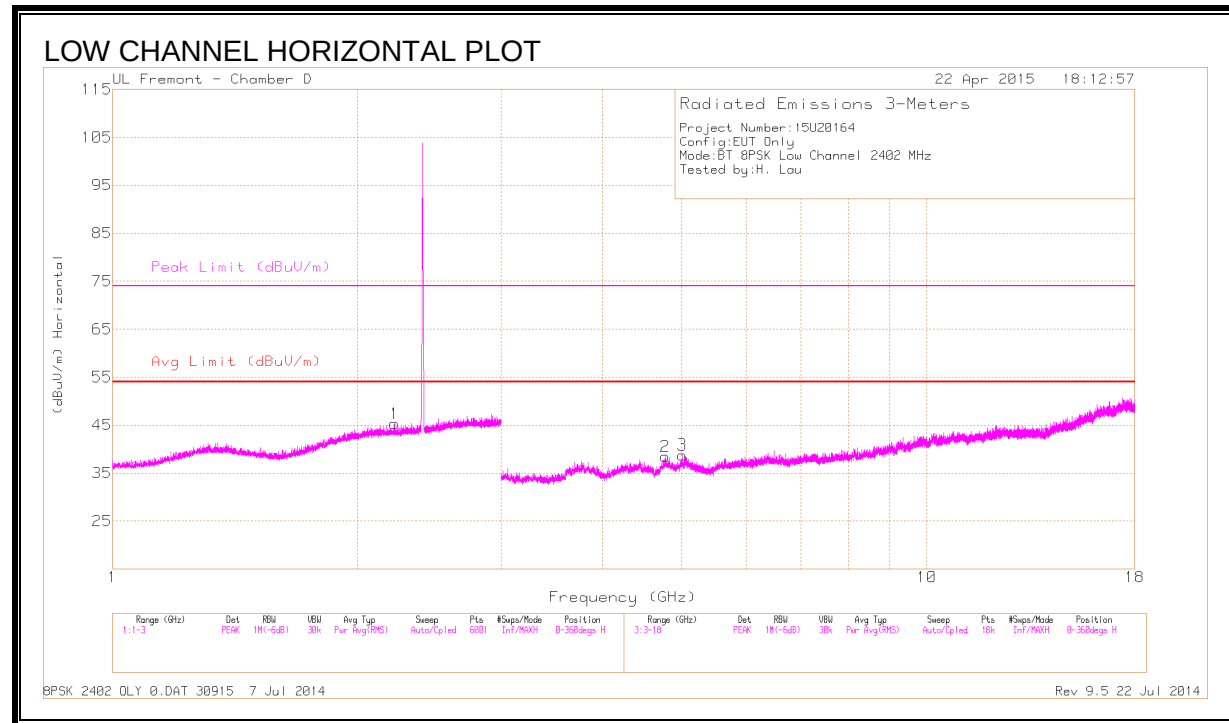
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.89	PK	32.2	-20.8	50.29	-	-	74	-23.71	229	331	V
3	* 2.484	26.77	VB1T	32.2	-20.8	38.17	54	-15.83	-	-	229	331	V
2	2.519	42.05	PK	32.2	-20.8	53.45	-	-	74	-20.55	229	331	V
4	2.561	26.78	VB1T	32.3	-20.6	38.48	54	-15.52	-	-	229	331	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

HARMONICS AND SPURIOUS EMISSIONS



DATA

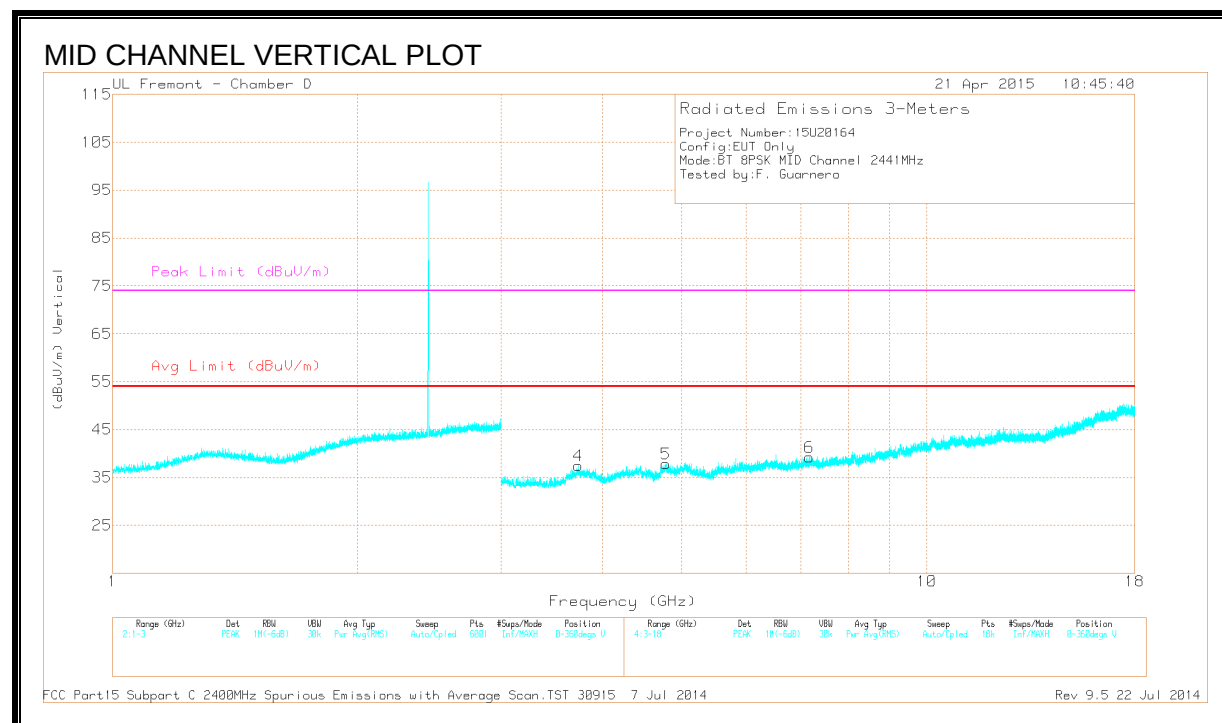
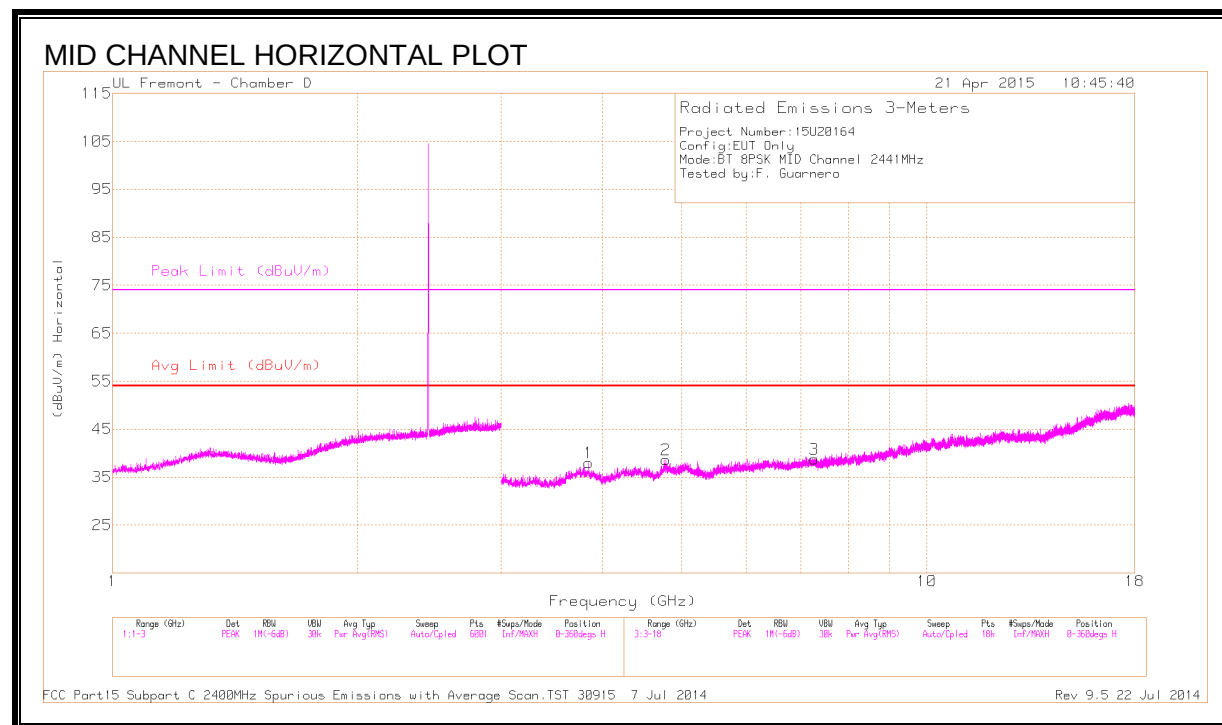
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT344 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.218	41.12	PK3	31.6	-21.1	51.62	-	-	74	-22.38	43	184	H
	* 2.22	28.49	VB10	31.7	-21	39.19	54	-14.81	-	-	43	184	H
4	* 1.226	42.09	PK3	28.3	-22.3	48.09	-	-	74	-25.91	113	157	V
	* 1.224	28.59	VB10	28.3	-22.4	34.49	54	-19.51	-	-	113	157	V
2	* 4.771	38.36	PK3	34.1	-26.6	45.86	-	-	74	-28.14	158	121	H
	* 4.772	25.07	VB10	34.1	-26.6	32.57	54	-21.43	-	-	158	121	H
3	* 5.007	38.07	PK3	34.3	-26.9	45.47	-	-	74	-28.53	211	151	H
	* 5.005	24.6	VB10	34.3	-26.9	32	54	-22	-	-	211	151	H
5	* 4.833	38.28	PK3	34.1	-27.6	44.78	-	-	74	-29.22	258	123	V
	* 4.832	25.31	VB10	34.1	-27.6	31.81	54	-22.19	-	-	258	123	V
6	* 8.372	35.17	PK3	35.7	-23.1	47.77	-	-	74	-26.23	184	154	V
	* 8.373	22.39	VB10	35.7	-23.1	34.99	54	-19.01	-	-	184	154	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS



DATA

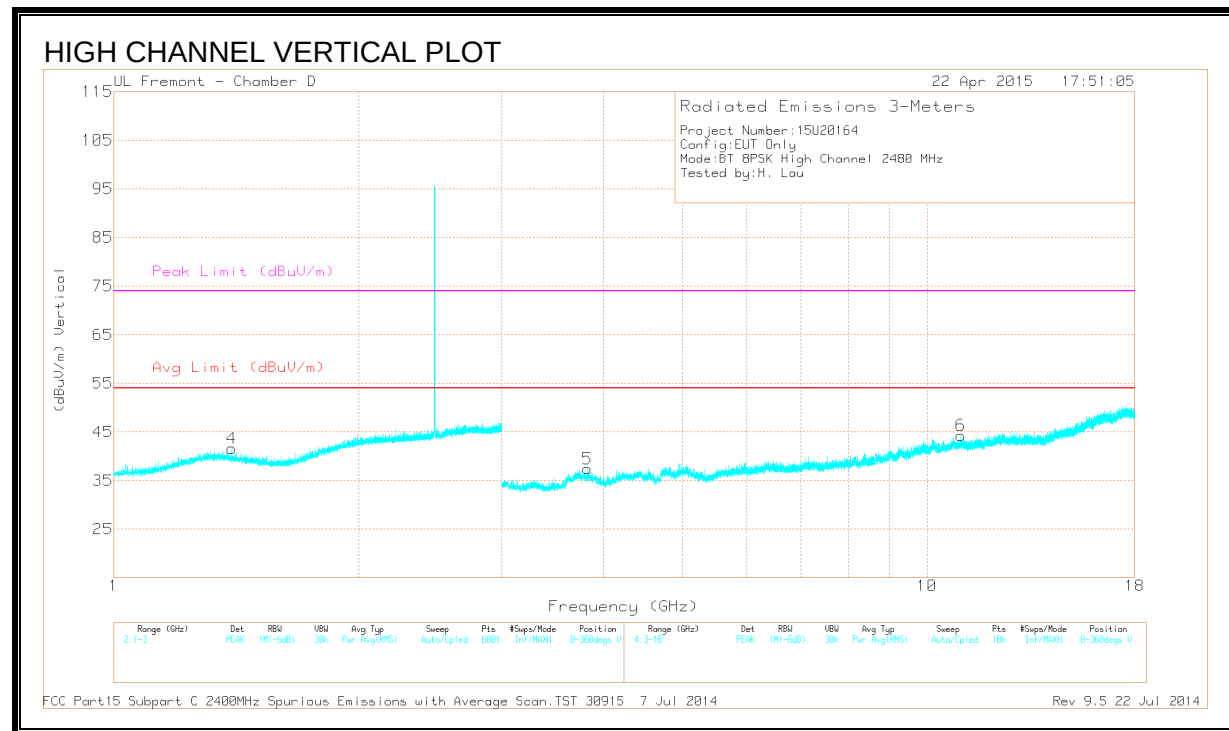
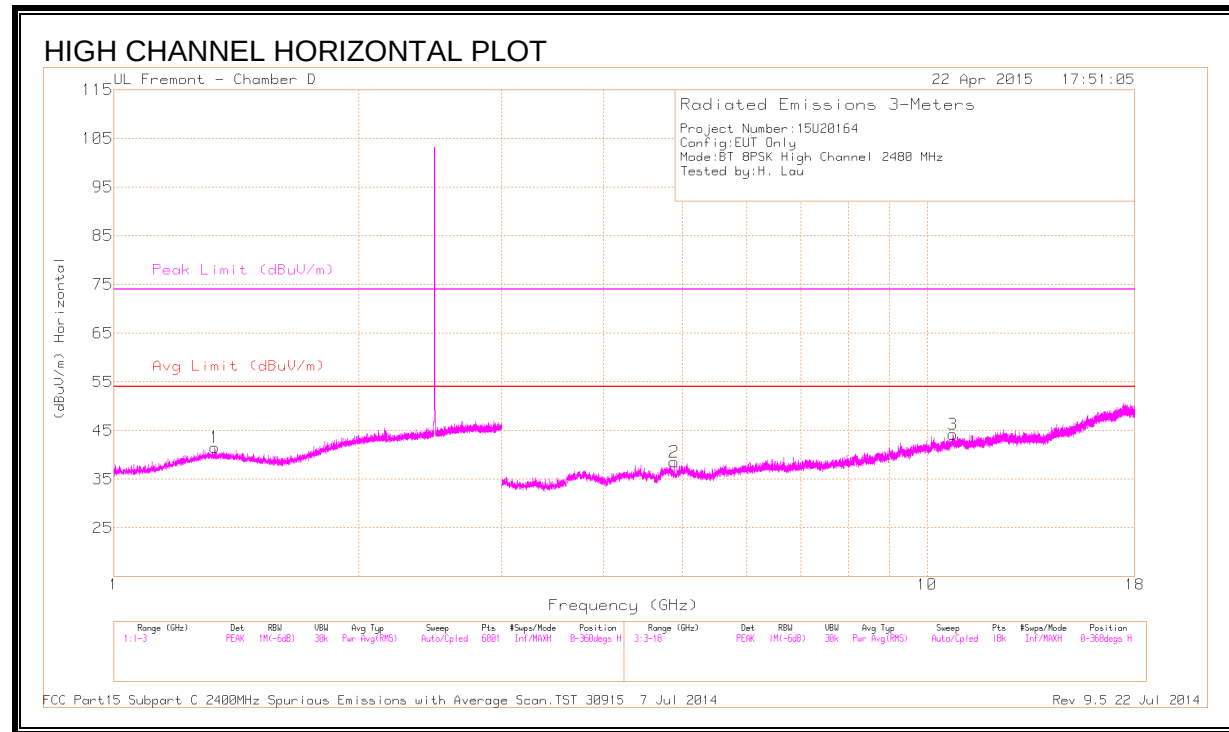
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT344 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.843	39.43	PK3	33.4	-28.7	44.13	-	-	74	-29.87	294	205	H
	* 3.844	26.25	VB10	33.4	-28.7	30.95	54	-23.05	-	-	294	205	H
2	* 4.881	41.92	PK3	34.1	-28.1	47.92	-	-	74	-26.08	297	196	H
	* 4.882	29.19	VB10	34.1	-28.2	35.09	54	-18.91	-	-	297	196	H
3	* 7.322	36.86	PK3	35.5	-25.2	47.16	-	-	74	-26.84	9	136	H
	* 7.321	23.52	VB10	35.5	-25.2	33.82	54	-20.18	-	-	9	136	H
4	* 3.73	38.38	PK3	33.2	-28.6	42.98	-	-	74	-31.02	152	121	V
	* 3.731	25.81	VB10	33.2	-28.6	30.41	54	-23.59	-	-	152	121	V
5	* 4.881	38.14	PK3	34.1	-28.2	44.04	-	-	74	-29.96	176	236	V
	* 4.882	29.39	VB10	34.1	-28.2	35.29	54	-18.71	-	-	176	236	V
6	* 7.318	35.82	PK3	35.5	-25.1	46.22	-	-	74	-27.78	143	213	V
	* 7.328	23.42	VB10	35.5	-25.3	33.62	54	-20.38	-	-	143	213	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.332	42.23	PK3	28.9	-22.2	48.93	-	-	74	-25.07	318	116	H
	* 1.331	28.71	VB10	28.9	-22.2	35.41	54	-18.59	-	-	318	116	H
4	* 1.396	42.15	PK3	28.6	-22.1	48.65	-	-	74	-25.35	268	154	V
	* 1.397	28.83	VB10	28.6	-22.1	35.33	54	-18.67	-	-	268	154	V
2	* 4.887	38.28	PK3	34.1	-28.2	44.18	-	-	74	-29.82	216	128	H
	* 4.886	25.33	VB10	34.1	-28.2	31.23	54	-22.77	-	-	216	128	H
3	* 10.763	34.98	PK3	37.9	-20.3	52.58	-	-	74	-21.42	145	181	H
	* 10.761	20.98	VB10	37.9	-20.3	38.58	54	-15.42	-	-	145	181	H
5	* 3.826	38.47	PK3	33.4	-28.6	43.27	-	-	74	-30.73	89	148	V
	* 3.828	26.19	VB10	33.4	-28.6	30.99	54	-23.01	-	-	89	148	V
6	* 11.004	34.6	PK3	38.1	-21.2	51.5	-	-	74	-22.5	169	118	V
	* 11.004	21.45	VB10	38.1	-21.2	38.35	54	-15.65	-	-	169	118	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

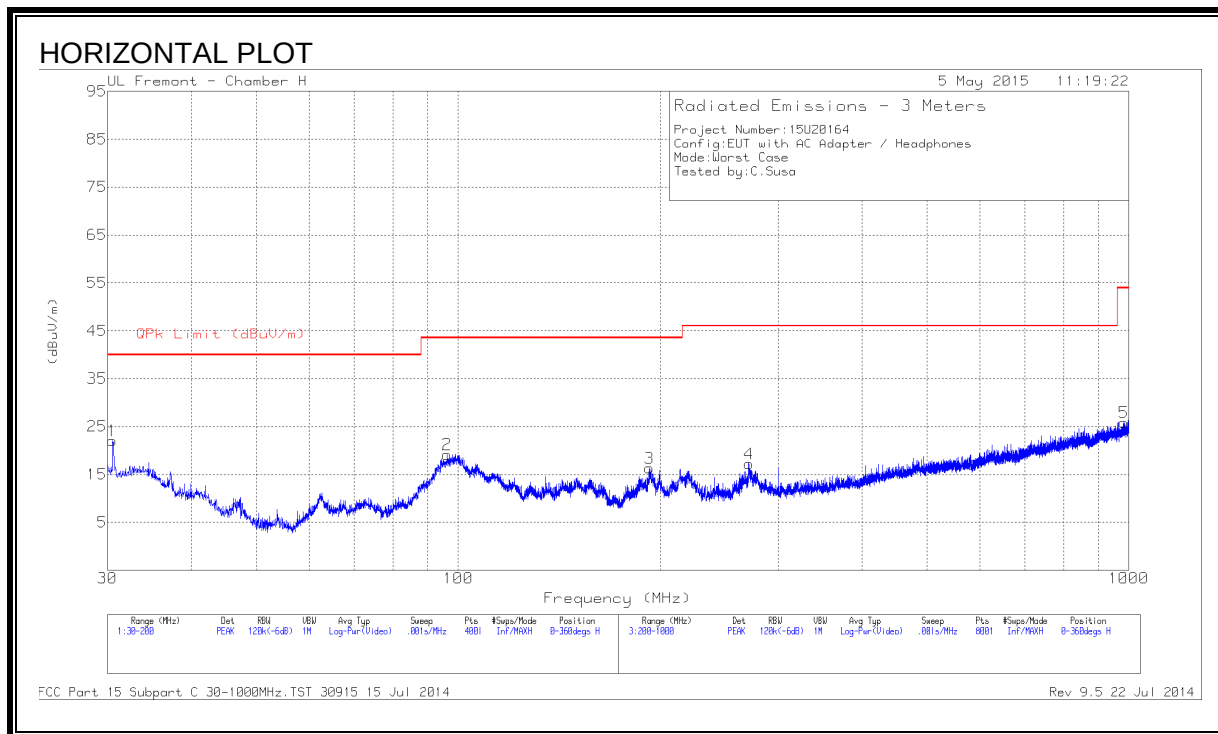
PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

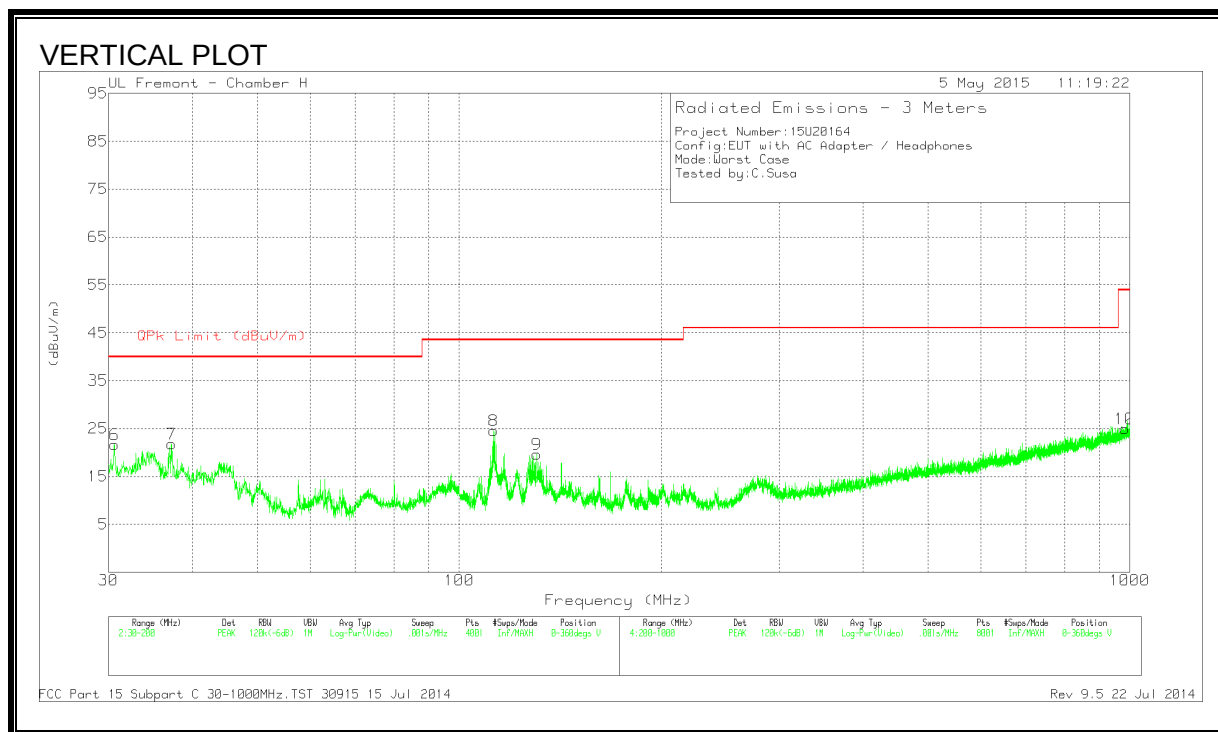
9.3. WORST-CASE BELOW 1 GHz

9.3.1. HIGH POWER

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



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



DATA

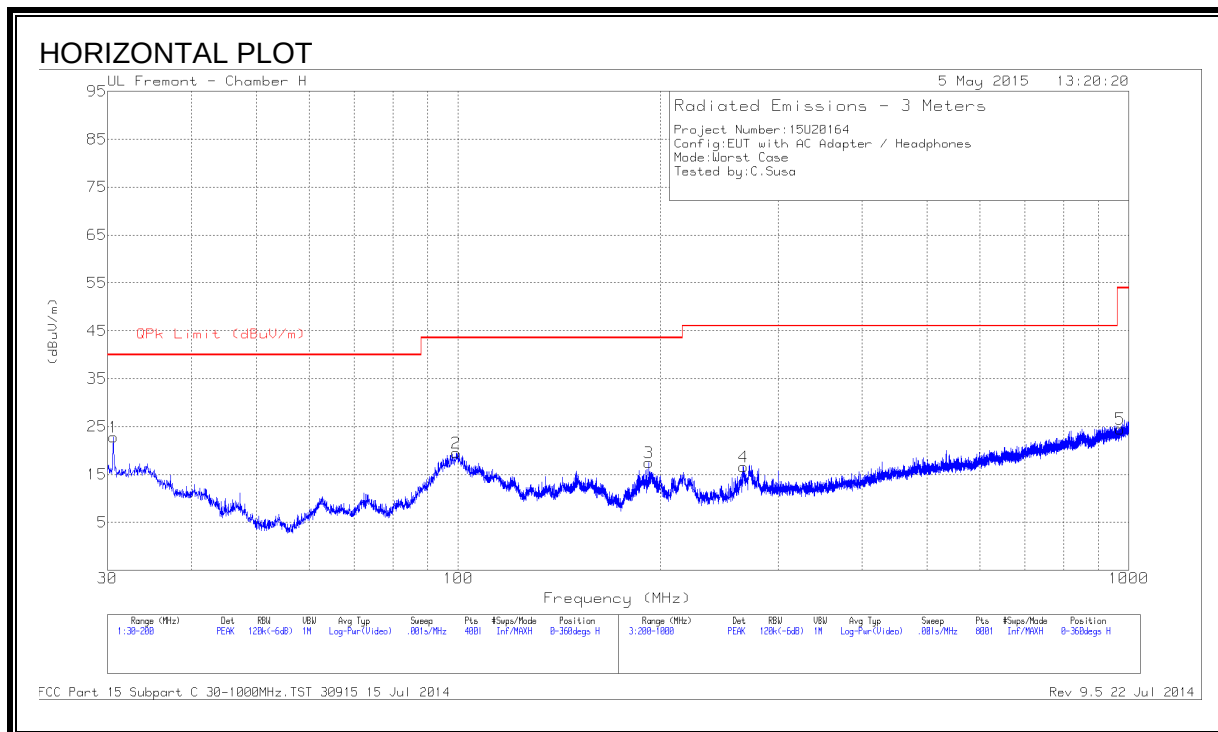
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T900 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8	* 112.5775	41.97	PK	13	-30.4	24.57	43.52	-18.95	0-360	100	V
9	* 130.5975	36.09	PK	13.8	-30.2	19.69	43.52	-23.83	0-360	100	V
4	* 271.6	33.38	PK	13.2	-29.3	17.28	46.02	-28.74	0-360	99	H
5	* 983	28.28	PK	23.1	-25.5	25.88	53.97	-28.09	0-360	99	H
10	* 983.4	27.35	PK	23.1	-25.5	24.95	53.97	-29.02	0-360	301	V
1	30.51	32.08	PK	21.3	-31.3	22.08	40	-17.92	0-360	400	H
6	30.595	31.68	PK	21.3	-31.3	21.68	40	-18.32	0-360	100	V
7	37.2675	36.1	PK	16.9	-31.2	21.8	40	-18.2	0-360	100	V
2	96.3	40.49	PK	9.3	-30.6	19.19	43.52	-24.33	0-360	301	H
3	192.945	34.49	PK	11.7	-29.8	16.39	43.52	-27.13	0-360	98	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.
PK - Peak detector

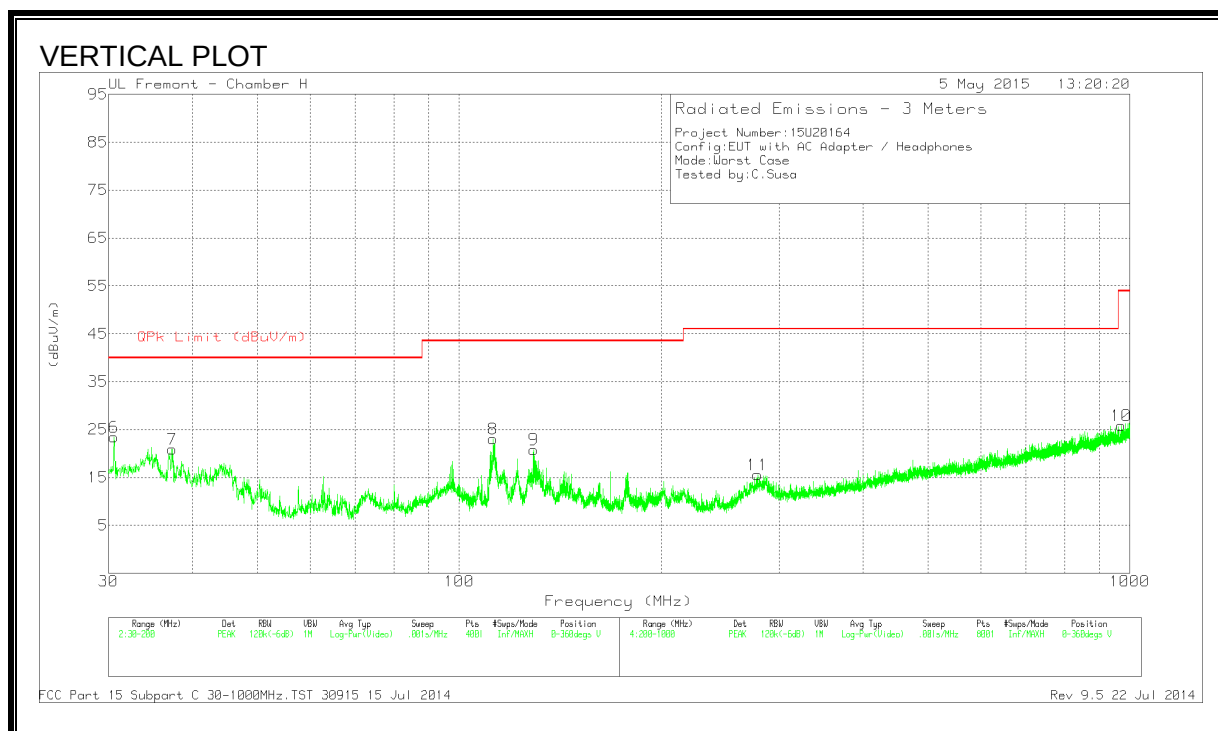
FCC Part 15 Subpart C 30-1000MHz.TST 30915 15 Jul 2014
Rev 9.5 22 Jul 2014

9.3.2. LOW POWER

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



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



DATA

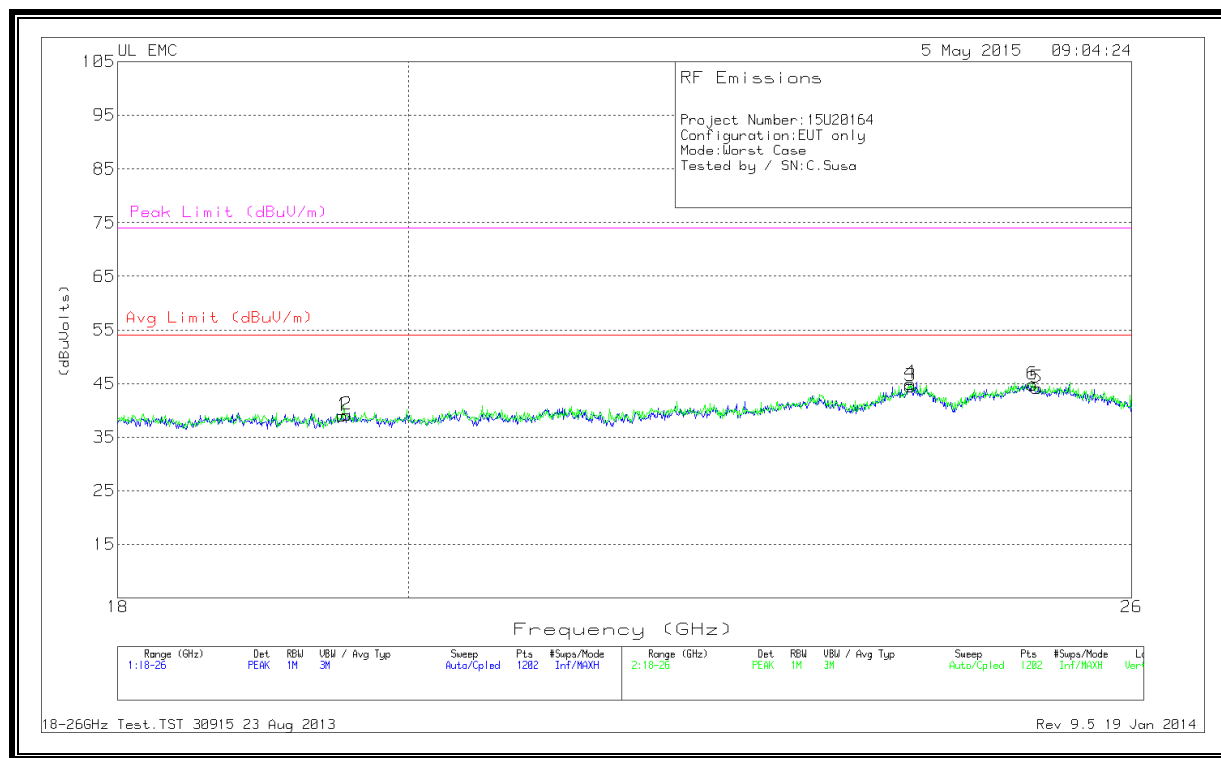
Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	AF T900 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBUV/m)	QPk Limit (dBUV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8	* 112.3225	40.6	PK	12.9	-30.4	23.1	43.52	-20.42	0-360	100	V
9	* 129.2375	37.24	PK	13.8	-30.2	20.84	43.52	-22.68	0-360	100	V
4	* 266.3	32.94	PK	13	-29.3	16.64	46.02	-29.38	0-360	100	H
5	* 971.7	27.32	PK	22.8	-25.6	24.52	53.97	-29.45	0-360	301	H
10	* 970.4	28.72	PK	22.7	-25.6	25.82	53.97	-28.15	0-360	201	V
11	* 278.6	31.39	PK	13.4	-29.2	15.59	46.02	-30.43	0-360	99	V
6	30.5525	33.44	PK	21.3	-31.3	23.44	40	-16.56	0-360	100	V
1	30.595	32.79	PK	21.3	-31.3	22.79	40	-17.21	0-360	401	H
7	37.3525	35.33	PK	16.8	-31.2	20.93	40	-19.07	0-360	100	V
2	99.36	40.04	PK	10	-30.5	19.54	43.52	-23.98	0-360	301	H
3	192.3925	35.62	PK	11.6	-29.8	17.42	43.52	-26.1	0-360	98	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.
PK - Peak detector

9.4. WORST-CASE ABOVE 18 GHz

9.4.1. HIGH POWER

SPURIOUS EMISSIONS 18 TO 26 GHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)



Data

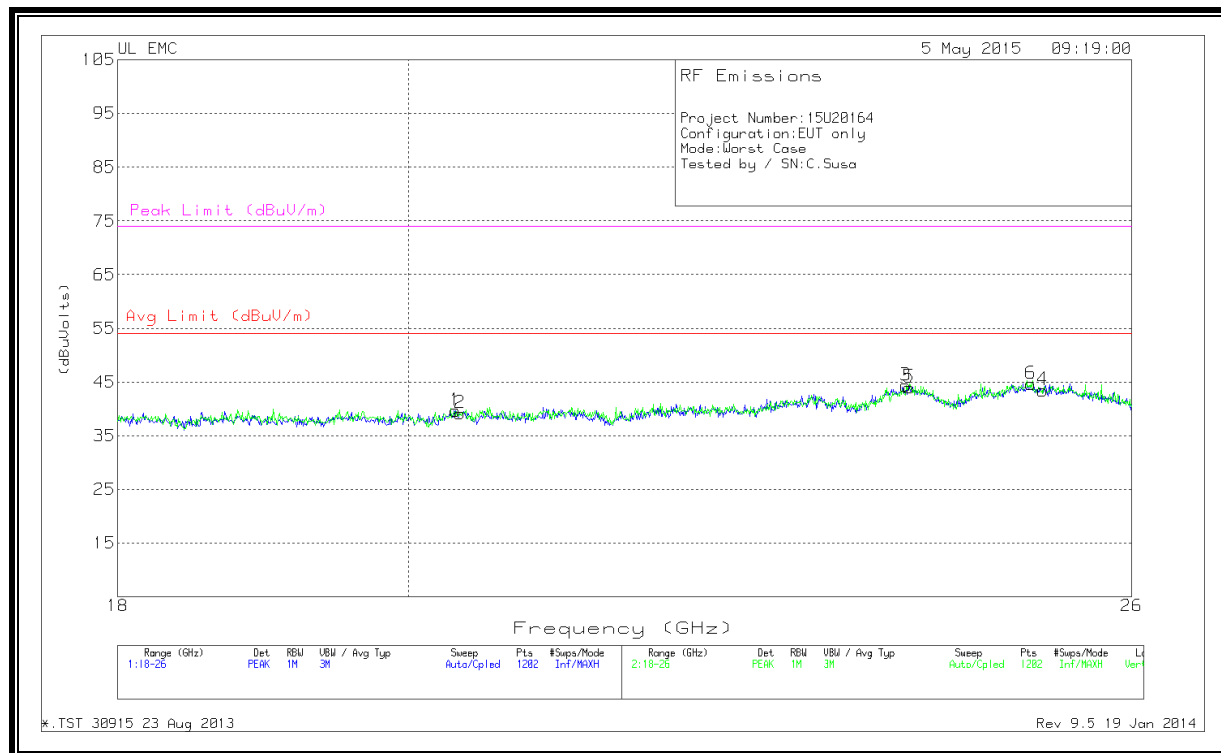
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	T89 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	19.529	40.7	PK	32.8	-25	-9.5	39	54	-15	74	-35
3	23.995	43.1	PK	34.2	-23.3	-9.5	44.5	54	-9.5	74	-29.5
6	25.081	43.73	PK	34.5	-23.9	-9.5	44.833	54	-9.167	74	-29.167
2	19.559	40.57	PK	32.9	-24.8	-9.5	39.167	54	-14.833	74	-34.833
4	23.995	43.6	PK	34.2	-23.3	-9.5	45	54	-9	74	-29
5	25.121	43.17	PK	34.5	-24	-9.5	44.167	54	-9.833	74	-29.833

PK - Peak detector

18-26GHz Test.TST 30915 23 Aug 2013 Rev 9.5 19 Jan 2014

9.4.2. LOW POWER

SPURIOUS EMISSIONS 18 TO 26 GHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T89 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	20.345	41.27	PK	32.9	-25	-9.5	39.667	54	-14.333	74	-34.333
5	23.985	42.6	PK	34.2	-23.3	-9.5	44	54	-10	74	-30
6	25.067	43.47	PK	34.5	-23.8	-9.5	44.667	54	-9.333	74	-29.333
2	20.378	40.67	PK	32.9	-24.9	-9.5	39.167	54	-14.833	74	-34.833
3	23.955	43.83	PK	34.2	-24.2	-9.5	44.333	54	-9.667	74	-29.667
4	25.174	42.4	PK	34.5	-23.9	-9.5	43.5	54	-10.5	74	-30.5

PK - Peak detector

*.TST 30915 23 Aug 2013 Rev 9.5 19 Jan 2014

10. RADIATED TEST RESULTS (MODEL: A1688)

10.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-GEN, Section 8.9 and 8.10.

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T (10 Hz) video bandwidth with peak detector for average measurements.

The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

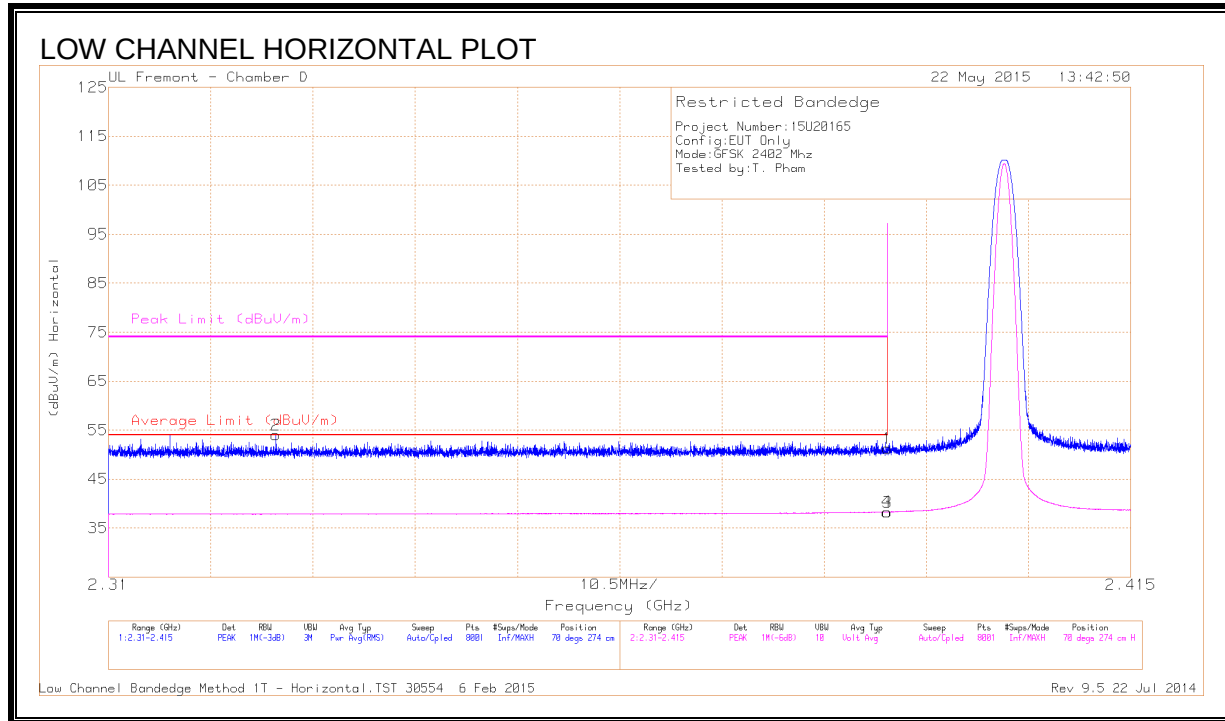
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

RESULTS

10.2. TRANSMITTER ABOVE 1 GHz

10.2.1. HIGH POWER BASIC DATA RATE GFSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



DATA

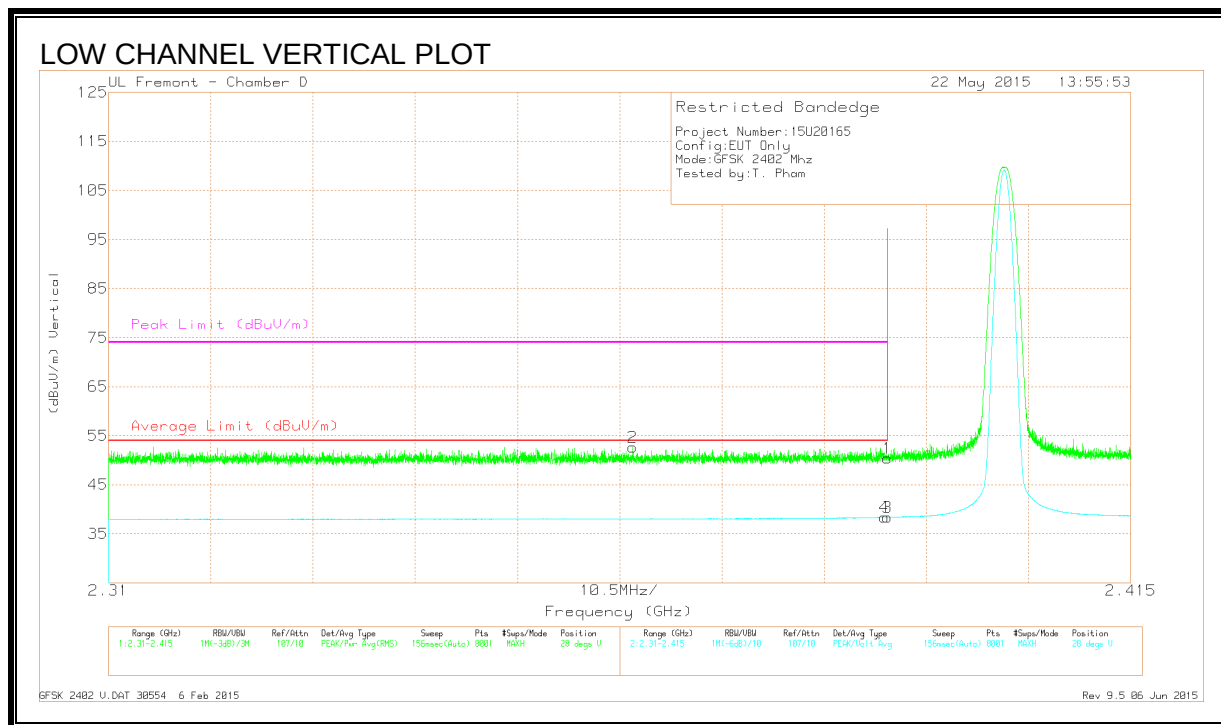
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.327	42.98	PK	32	-21	0	53.98	-	-	74	-20.02	70	274	H
1	* 2.39	39.89	PK	32.1	-20.7	0	51.29	-	-	74	-22.71	70	274	H
3	* 2.39	26.57	VB1T	32.1	-20.7	0	37.97	54	-16.03	-	-	70	274	H
4	* 2.39	26.63	VB1T	32.1	-20.7	0	38.03	54	-15.97	-	-	70	274	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



DATA

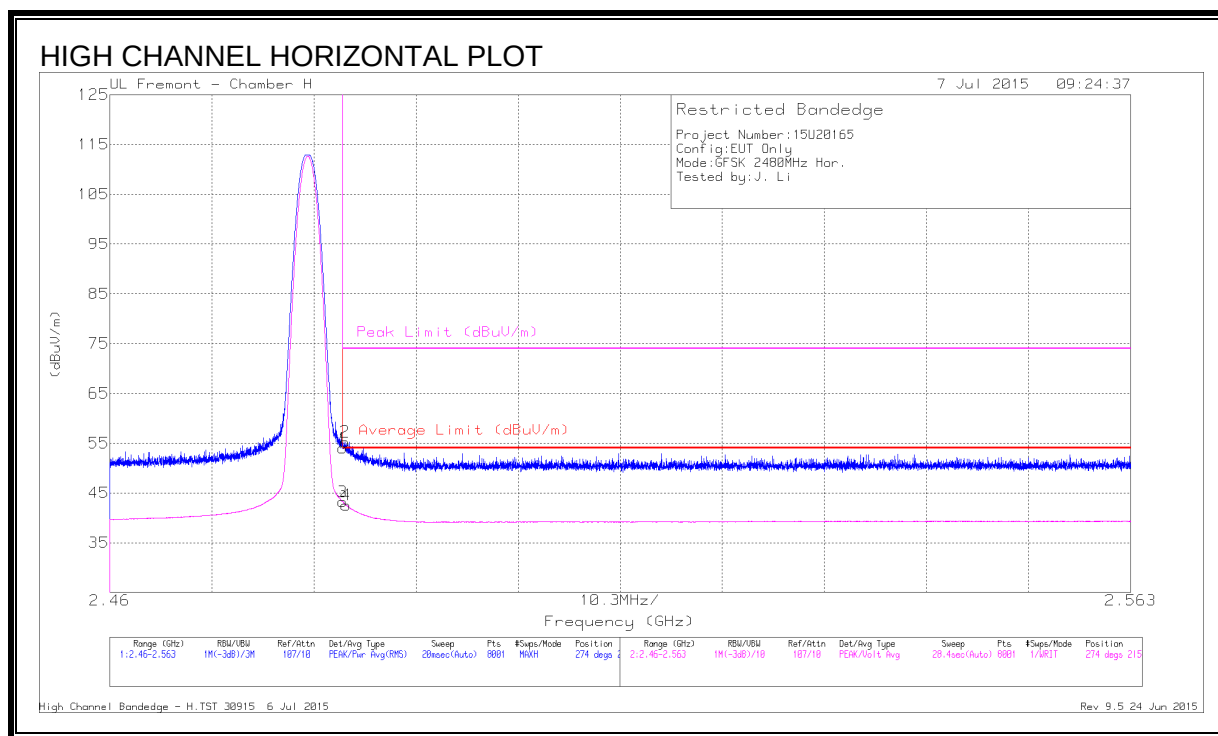
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.05	Pk	32.1	-20.7	50.45	-	-	74	-23.55	28	348	V
2	* 2.364	41.6	Pk	32	-20.9	52.7	-	-	74	-21.3	28	348	V
3	* 2.39	26.62	VB1T	32.1	-20.7	38.02	54	-15.98	-	-	28	348	V
4	* 2.39	26.67	VB1T	32.1	-20.7	38.07	54	-15.93	-	-	28	348	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



DATA

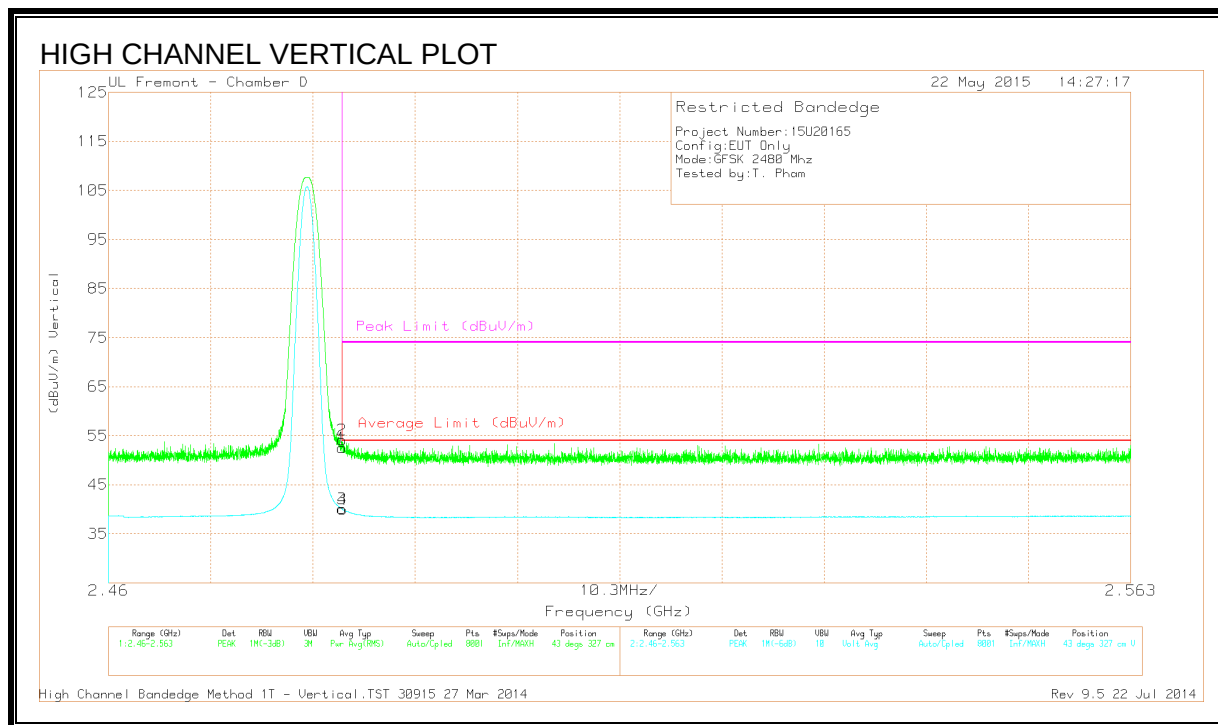
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.97	Pk	32.4	-23.4	53.97	-	-	74	-20.03	274	215	H
2	* 2.484	46.25	Pk	32.4	-23.4	55.25	-	-	74	-18.75	274	215	H
3	* 2.484	34.23	VA1T	32.4	-23.4	43.23	54	-10.77	-	-	274	215	H
4	* 2.484	33.57	VA1T	32.4	-23.4	42.57	54	-11.43	-	-	274	215	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



DATA

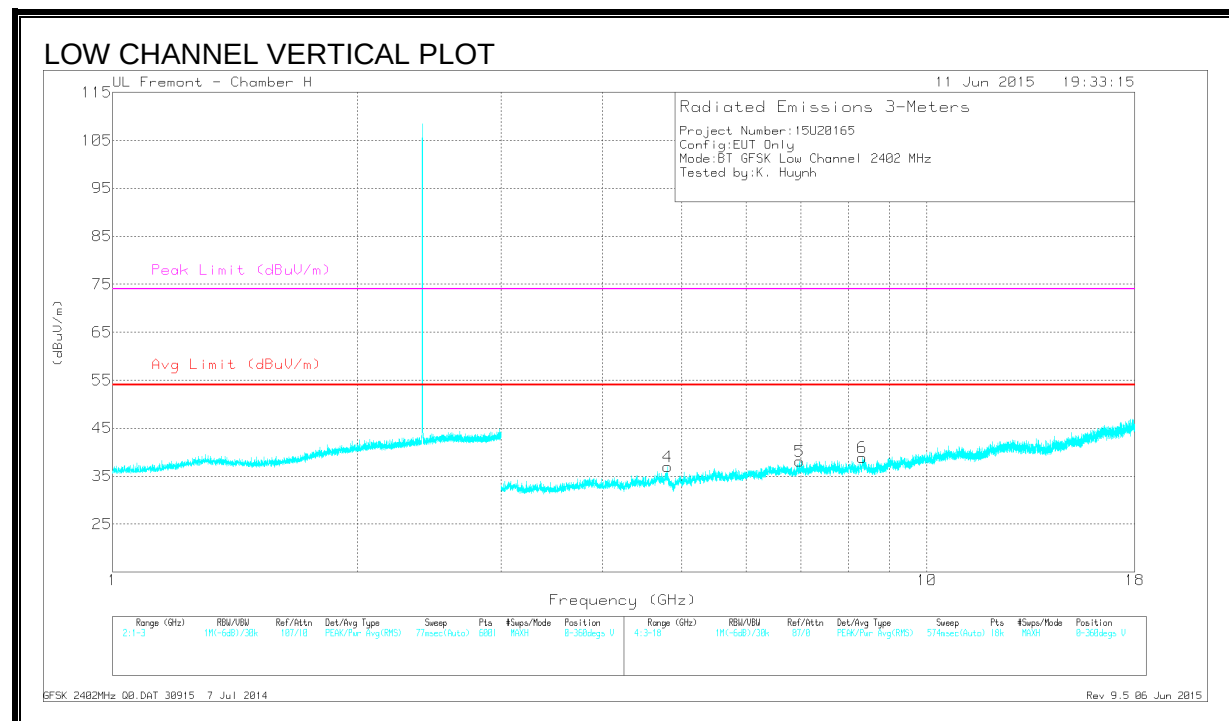
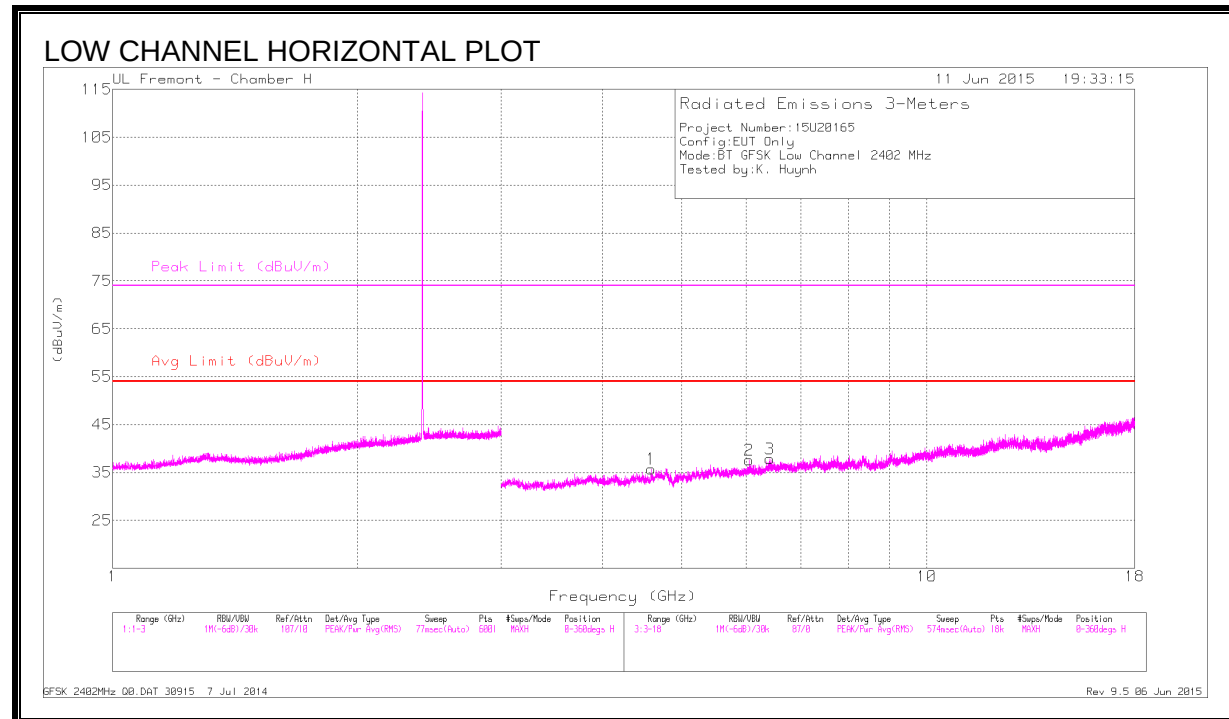
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.1	PK	32.2	-20.8	52.5	-	-	74	-21.5	43	327	V
2	* 2.484	42.72	PK	32.2	-20.8	54.12	-	-	74	-19.88	43	327	V
3	* 2.484	28.32	VB1T	32.2	-20.8	39.72	54	-14.28	-	-	43	327	V
4	* 2.484	28.26	VB1T	32.2	-20.8	39.66	54	-14.34	-	-	43	327	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

HARMONICS AND SPURIOUS EMISSIONS



DATA

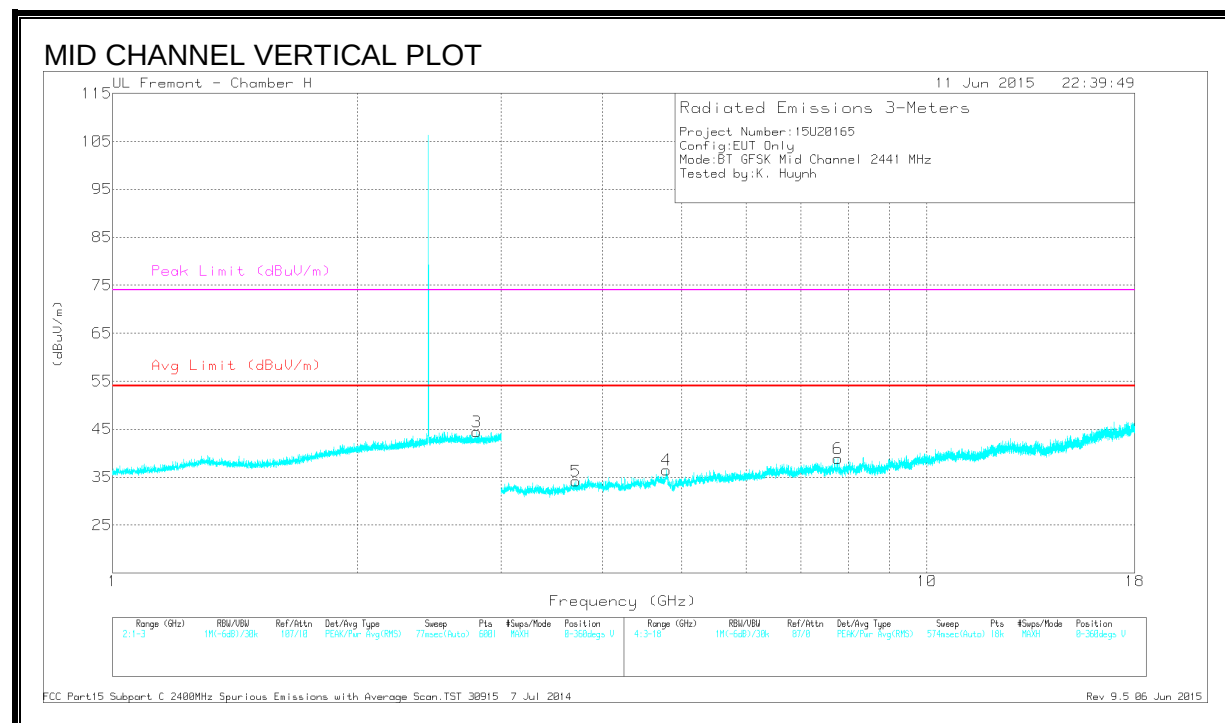
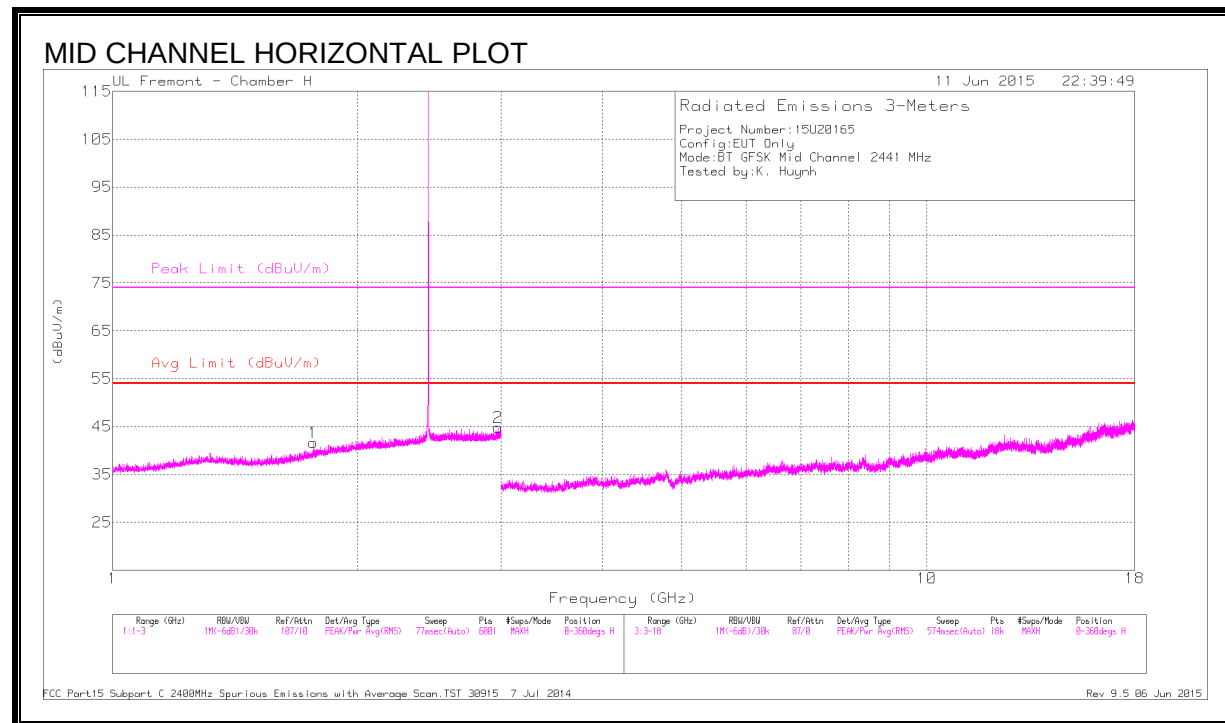
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.59	42.25	PK3	34	-32.5	43.75	-	-	74	-30.25	352	209	H
	* 4.591	29.6	VB10	34	-32.5	31.1	54	-22.9	-	-	352	209	H
4	* 4.803	41.87	PK3	34.2	-32.5	43.57	-	-	74	-30.43	353	164	V
	* 4.804	30.42	VB10	34.2	-32.5	32.12	54	-21.88	-	-	353	164	V
6	* 8.333	37.87	PK3	35.9	-27.9	45.87	-	-	74	-28.13	333	215	V
	* 8.335	26.25	VB10	35.9	-27.8	34.35	54	-19.65	-	-	333	215	V
2	6.047	40.19	PK3	35.3	-30.9	44.59	-	-	74	-29.41	356	207	H
3	6.413	40.63	PK3	35.6	-30.1	46.13	-	-	74	-27.87	318	226	H
5	6.971	39.96	PK3	35.8	-30.1	45.66	-	-	74	-28.34	311	122	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS



DATA

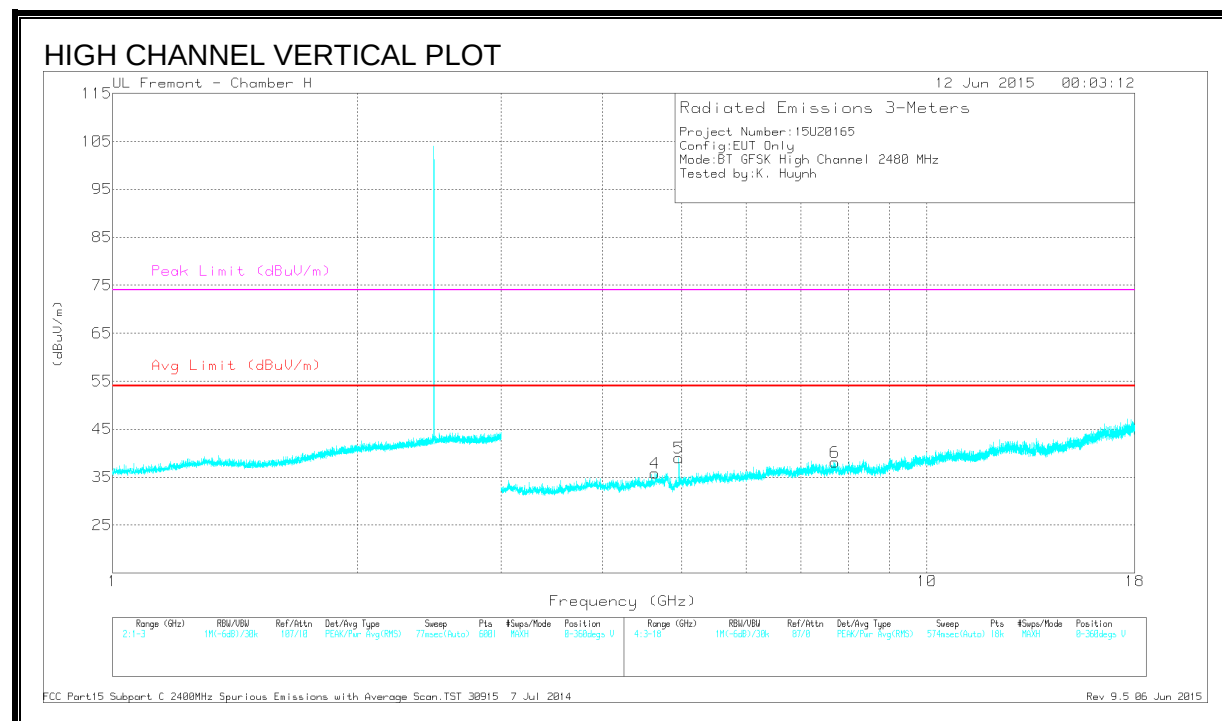
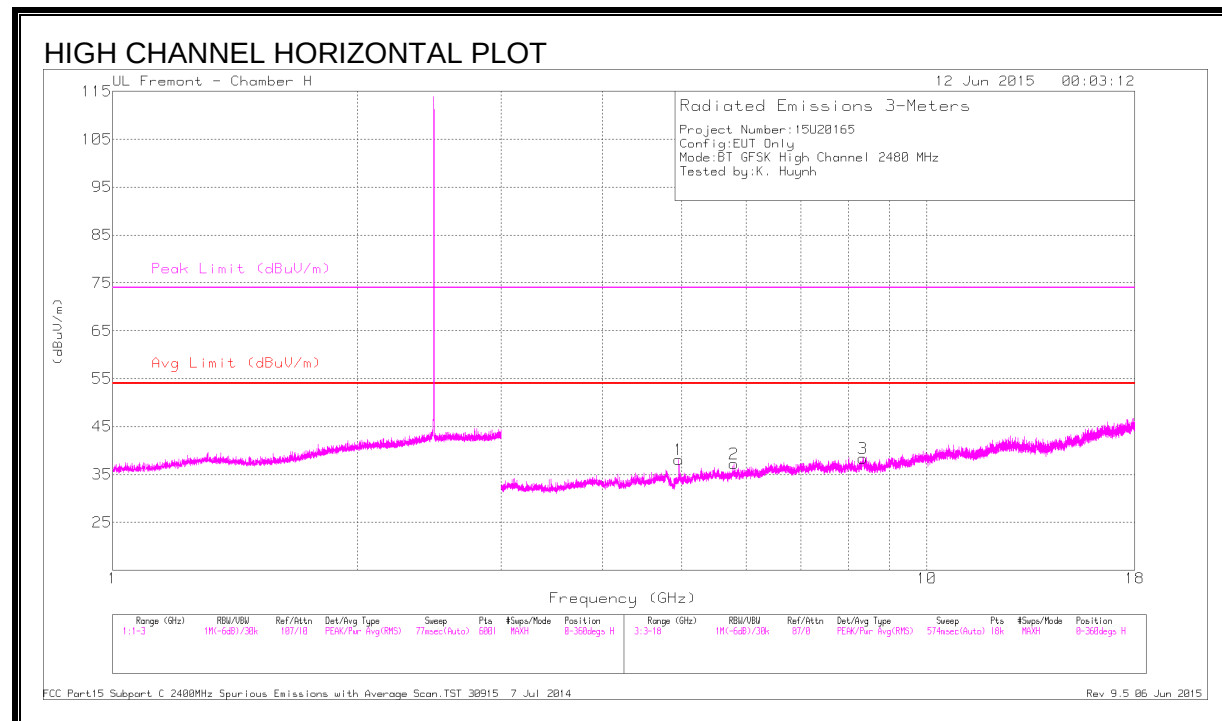
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 2.802	43.41	PK3	32.4	-24.3	51.51	-	-	74	-22.49	356	190	V
	* 2.801	30.96	VB10	32.4	-24.3	39.06	54	-14.94	-	-	356	190	V
4	* 4.79	42.12	PK3	34.2	-32.4	43.92	-	-	74	-30.08	345	110	V
	* 4.791	29.83	VB10	34.2	-32.4	31.63	54	-22.37	-	-	345	110	V
5	* 3.709	41.27	PK3	33.2	-32.7	41.77	-	-	74	-32.23	340	182	V
	* 3.709	29.56	VB10	33.2	-32.7	30.06	54	-23.94	-	-	340	182	V
1	1.764	43.4	PK3	29.7	-25.1	48	-	-	74	-26	359	110	H
2	2.972	43.4	PK3	32.7	-24	52.1	-	-	74	-21.9	354	112	H
6	7.769	38.42	PK3	35.9	-28.6	45.72	-	-	74	-28.28	334	108	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.96	44.46	PK3	34.2	-31.8	46.86	-	-	74	-27.14	323	259	H
	* 4.96	37.77	VB10	34.2	-31.8	40.17	54	-13.83	-	-	323	259	H
3	* 8.341	38.32	PK3	35.9	-27.5	46.72	-	-	74	-27.28	320	223	H
	* 8.341	26.25	VB10	35.9	-27.6	34.55	54	-19.45	-	-	320	223	H
4	* 4.637	40.82	PK3	34.1	-31.9	43.02	-	-	74	-30.98	27	360	V
	* 4.636	28.85	VB10	34.1	-31.9	31.05	54	-22.95	-	-	27	360	V
5	* 4.96	43.82	PK3	34.2	-31.8	46.22	-	-	74	-27.78	257	239	V
	* 4.96	37.2	VB10	34.2	-31.8	39.6	54	-14.4	-	-	257	239	V
6	* 7.707	39.16	PK3	35.9	-28.5	46.56	-	-	74	-27.44	265	222	V
	* 7.708	26.64	VB10	35.9	-28.5	34.04	54	-19.96	-	-	265	222	V
2	5.795	40.16	PK3	34.9	-30.8	44.26	-	-	74	-29.74	359	141	H

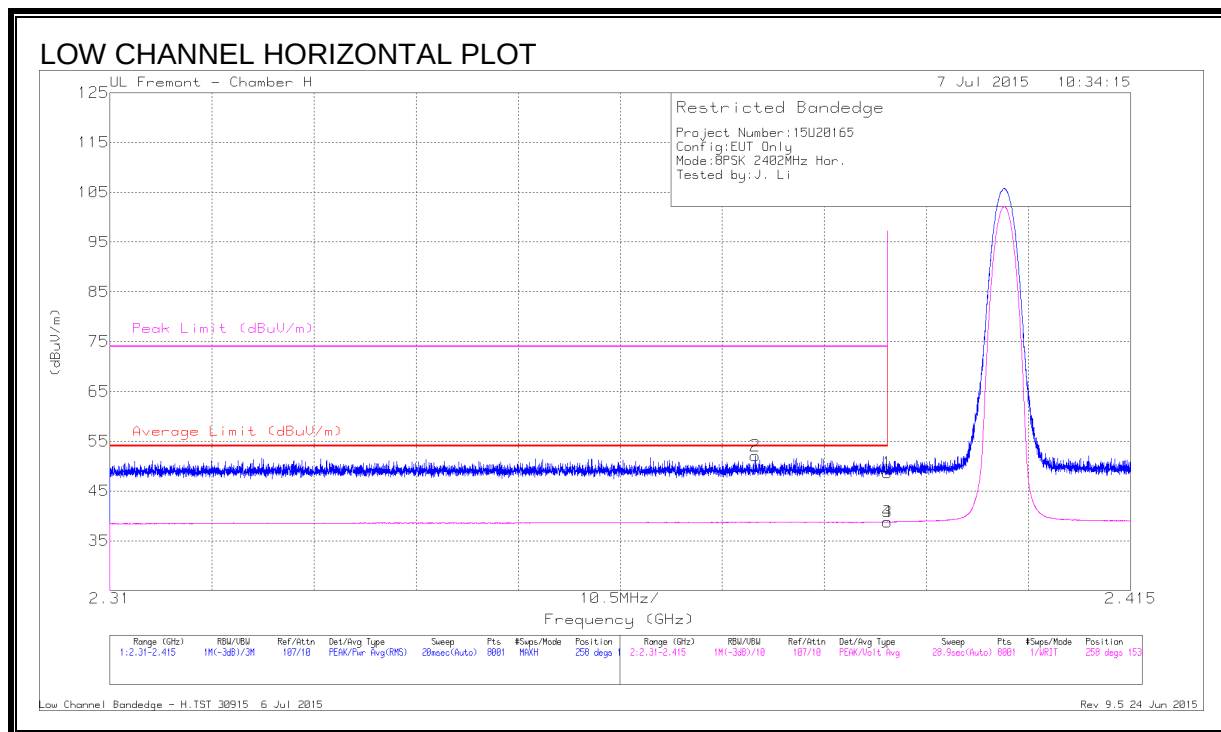
* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

10.2.2. HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



DATA

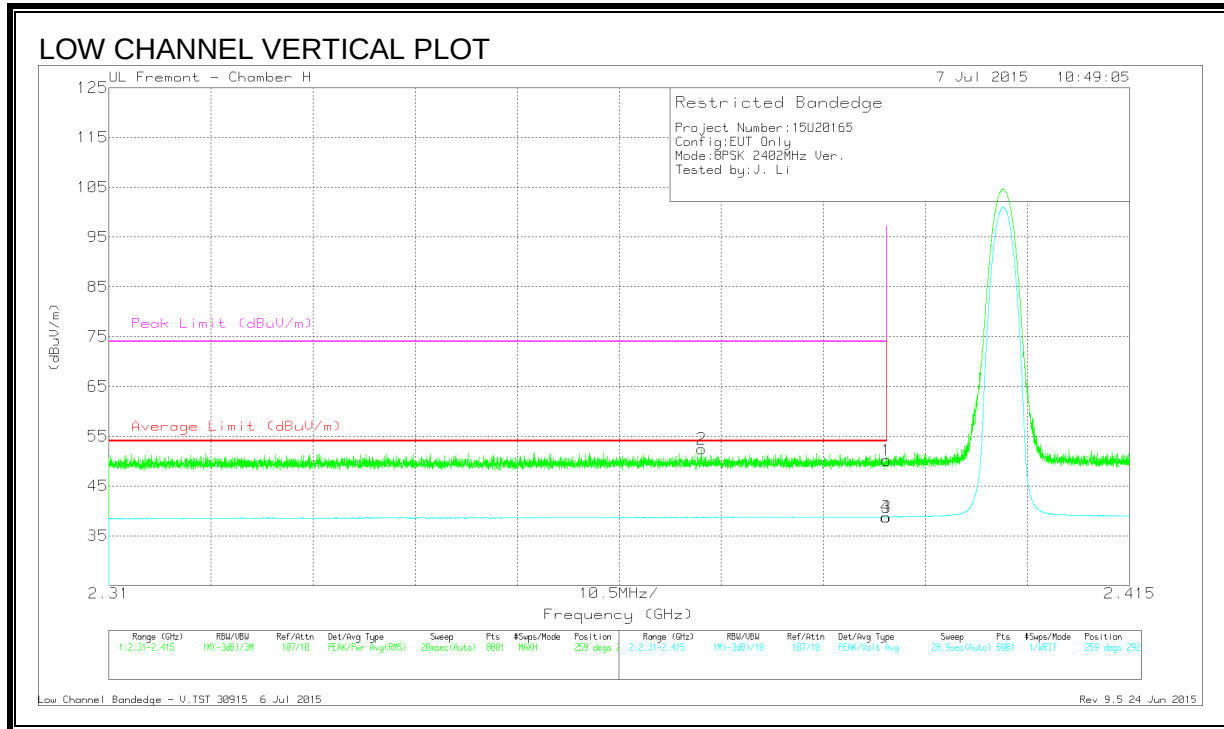
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.17	PK	32	-23.5	48.67	-	-	74	-25.33	258	153	H
2	* 2.376	43.57	PK	32	-23.5	52.07	-	-	74	-21.93	258	153	H
3	* 2.39	30.29	VB1T	32	-23.5	38.79	54	-15.21	-	-	258	153	H
4	* 2.39	30.3	VB1T	32	-23.5	38.8	54	-15.2	-	-	258	153	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



DATA

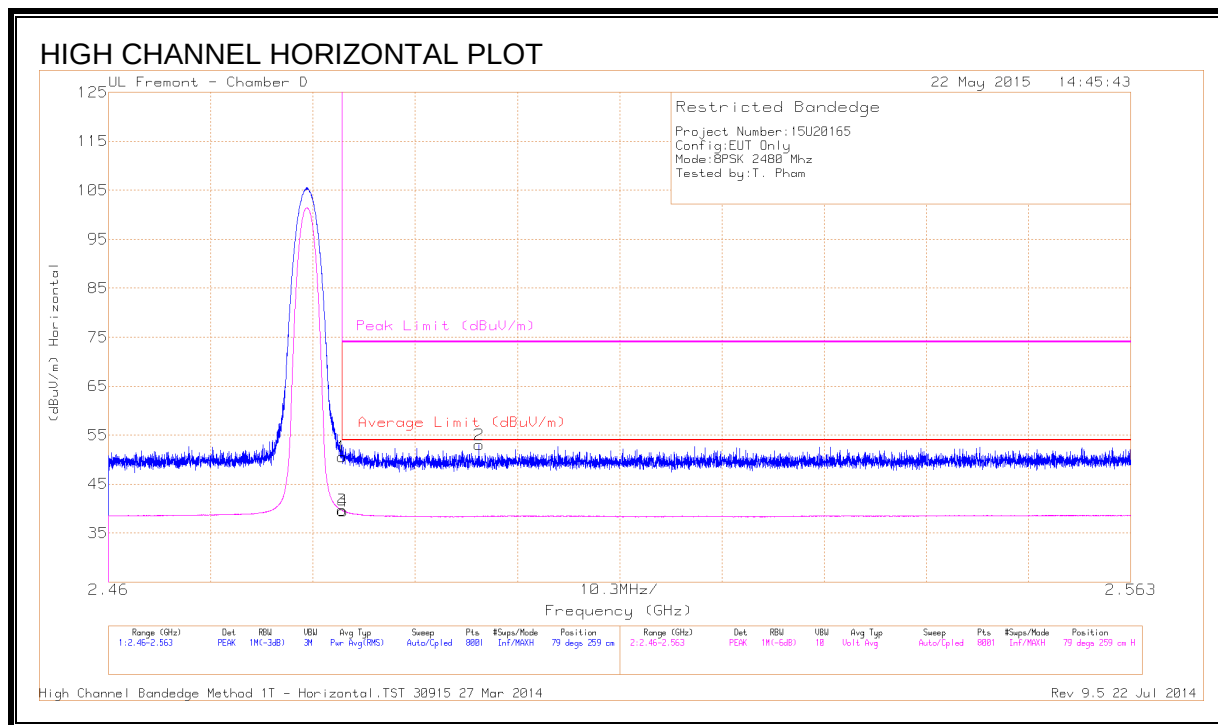
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT863 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.65	Pk	32	-23.5	50.15	-	-	74	-23.85	259	292	V
2	* 2.371	43.93	Pk	32	-23.5	52.43	-	-	74	-21.57	259	292	V
3	* 2.39	30.27	VB1T	32	-23.5	38.77	54	-15.23	-	-	259	292	V
4	* 2.39	30.28	VB1T	32	-23.5	38.78	54	-15.22	-	-	259	292	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



DATA

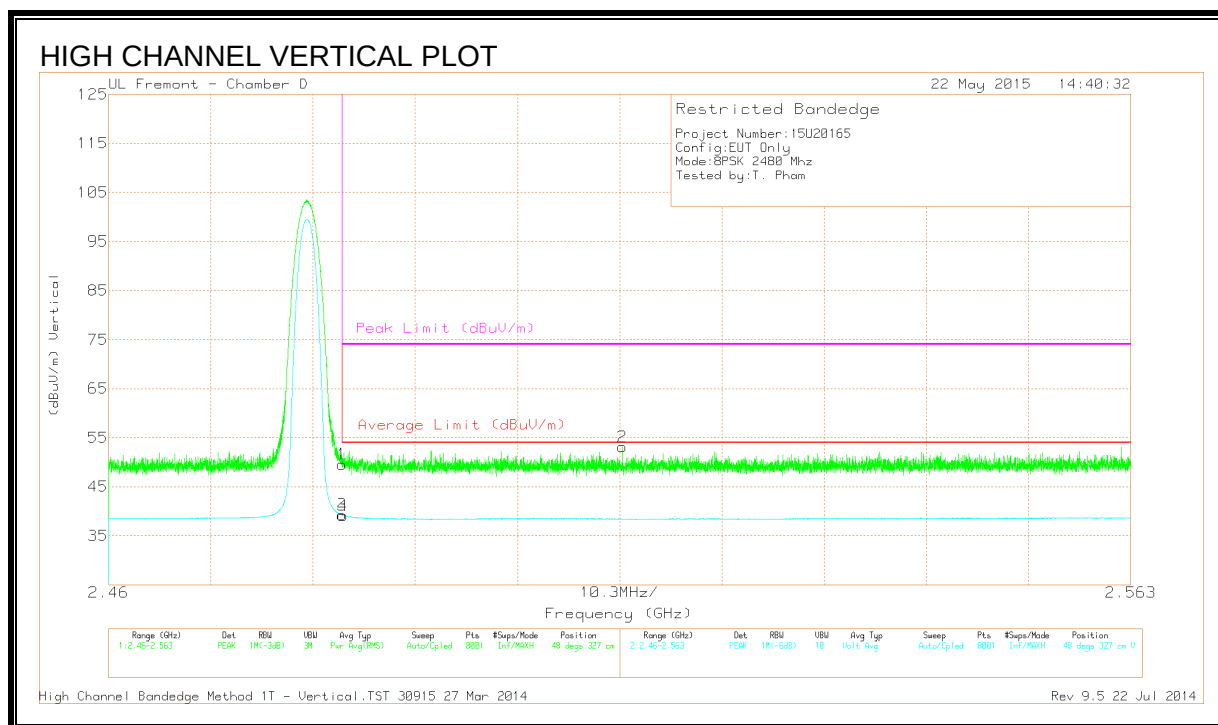
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.2	PK	32.2	-20.8	50.6	-	-	74	-23.4	79	259	H
2	* 2.497	41.57	PK	32.2	-20.7	53.07	-	-	74	-20.93	79	259	H
3	* 2.484	27.45	VB1T	32.2	-20.8	38.85	54	-15.15	-	-	79	259	H
4	* 2.484	27.44	VB1T	32.2	-20.8	38.84	54	-15.16	-	-	79	259	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL



DATA

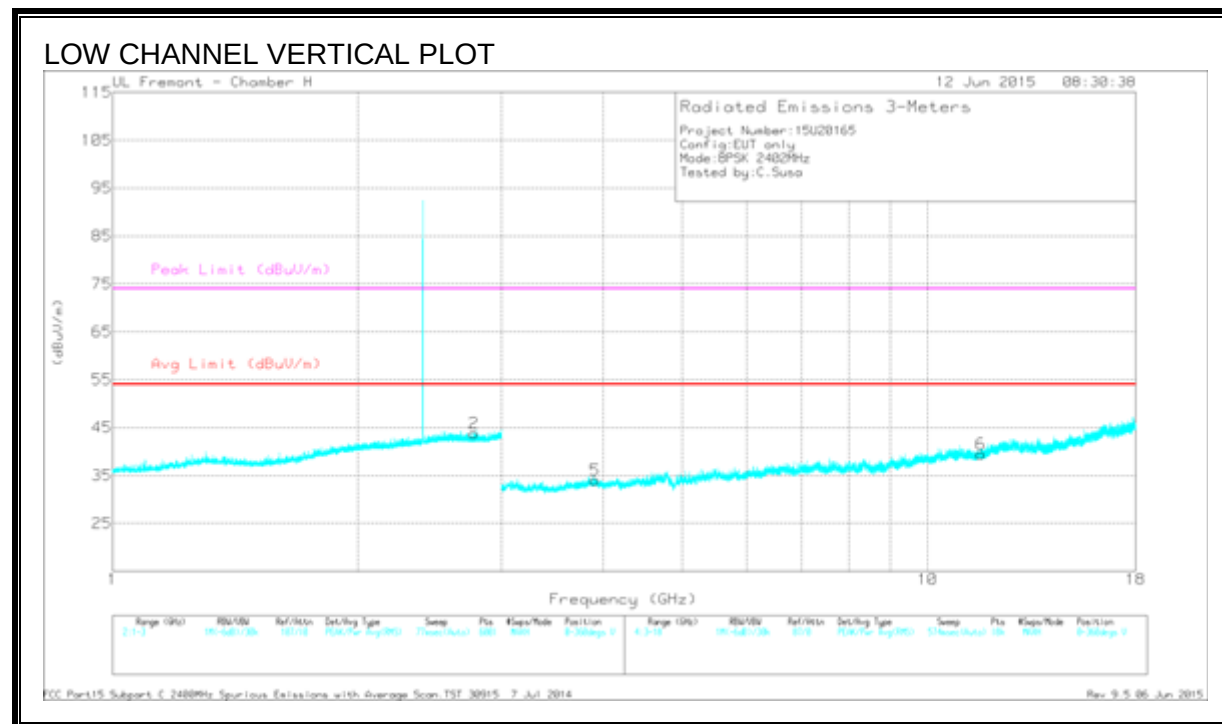
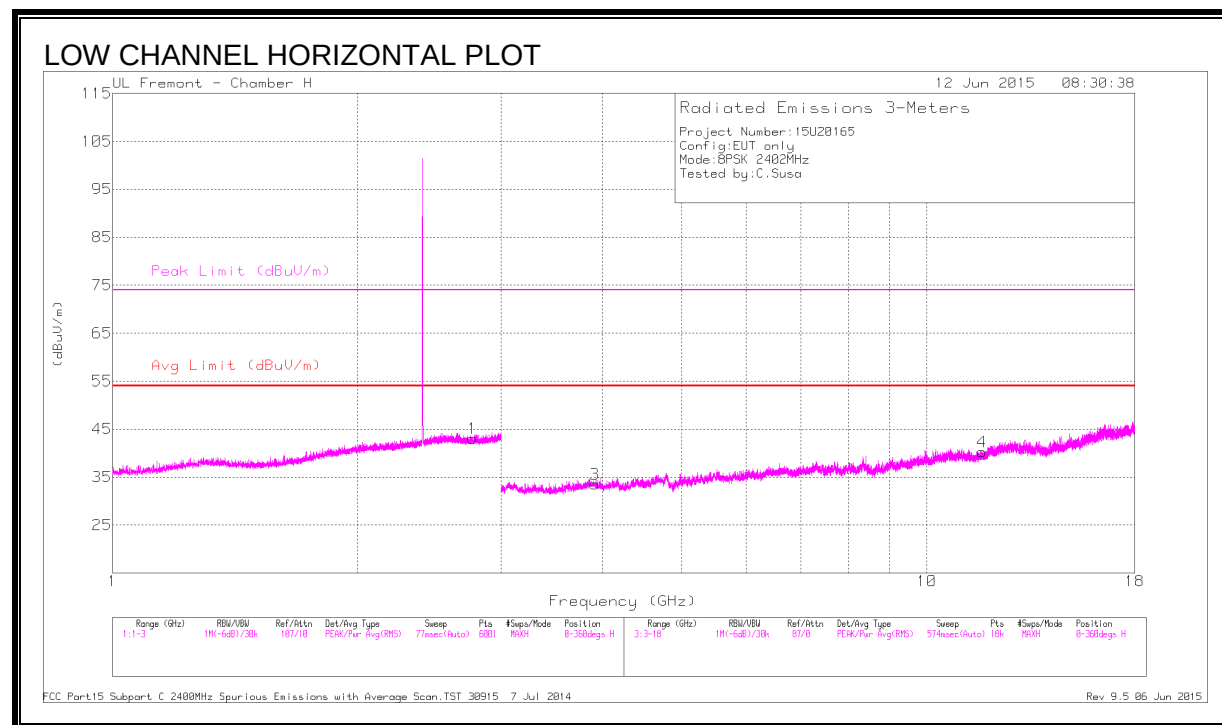
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.21	PK	32.2	-20.8	49.61	-	-	74	-24.39	48	327	V
3	* 2.484	27.9	VB1T	32.2	-20.8	39.3	54	-14.7	-	-	48	327	V
4	* 2.484	27.77	VB1T	32.2	-20.8	39.17	54	-14.83	-	-	48	327	V
2	2.512	41.71	PK	32.2	-20.8	53.11	-	-	74	-20.89	48	327	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

HARMONICS AND SPURIOUS EMISSIONS



DATA

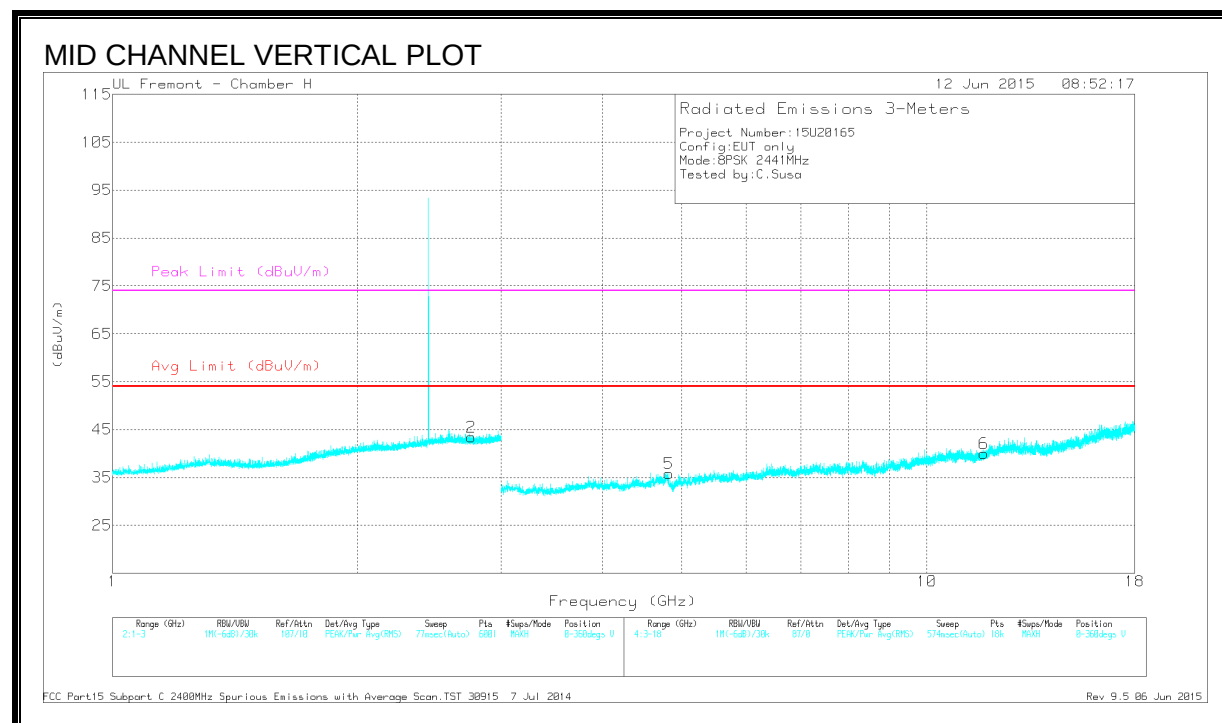
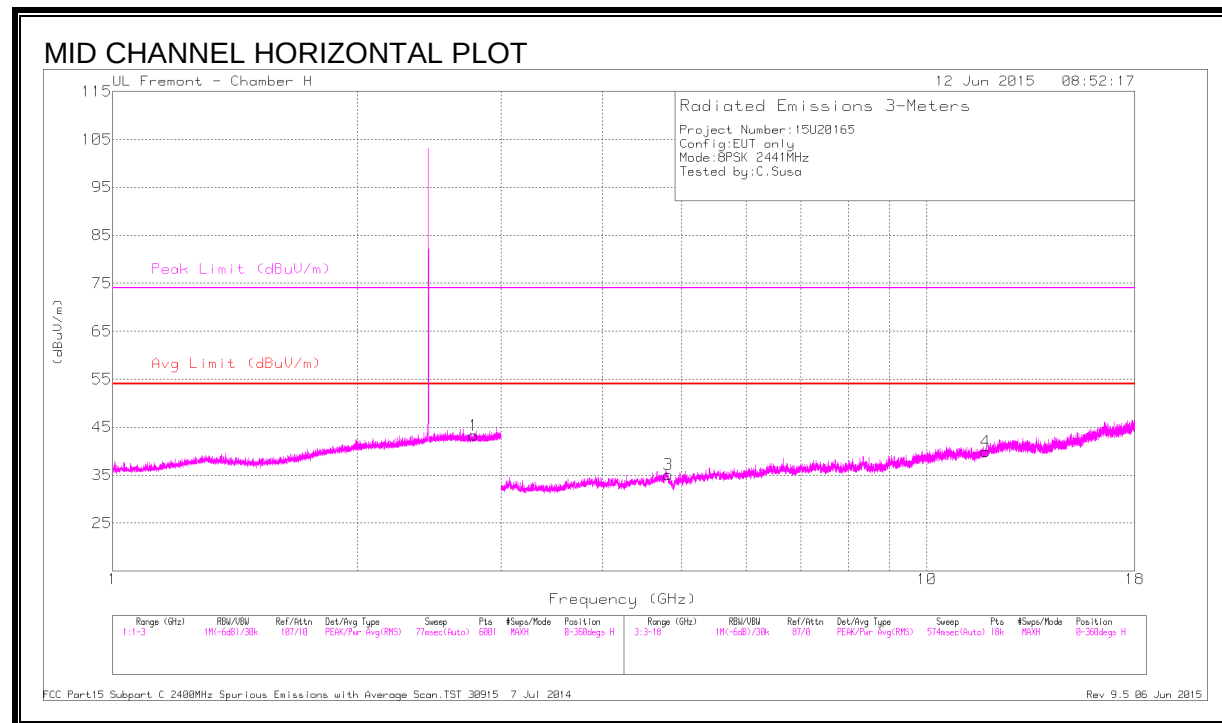
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.765	43.32	PK3	32.4	-24.3	51.42	-	-	74	-22.58	276	173	H
	* 2.767	31.09	VB10	32.4	-24.3	39.19	54	-14.81	-	-	276	173	H
2	* 2.776	43.09	PK3	32.4	-24.3	51.19	-	-	74	-22.81	179	223	V
	* 2.779	31.09	VB10	32.4	-24.3	39.19	54	-14.81	-	-	179	223	V
3	* 3.913	42.56	PK3	33.6	-33	43.16	-	-	74	-30.84	232	262	H
	* 3.914	30.29	VB10	33.6	-33	30.89	54	-23.11	-	-	232	262	H
4	* 11.69	35.81	PK3	38.1	-25.8	48.11	-	-	74	-25.89	177	224	H
	* 11.688	24.12	VB10	38.1	-25.7	36.52	54	-17.48	-	-	177	224	H
5	* 3.909	41.81	PK3	33.6	-32.9	42.51	-	-	74	-31.49	71	270	V
	* 3.912	30.24	VB10	33.6	-33	30.84	54	-23.16	-	-	71	270	V
6	* 11.626	35.25	PK3	38	-25.4	47.85	-	-	74	-26.15	206	312	V
	* 11.623	23.64	VB10	38	-25.3	36.34	54	-17.66	-	-	206	312	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS



DATA

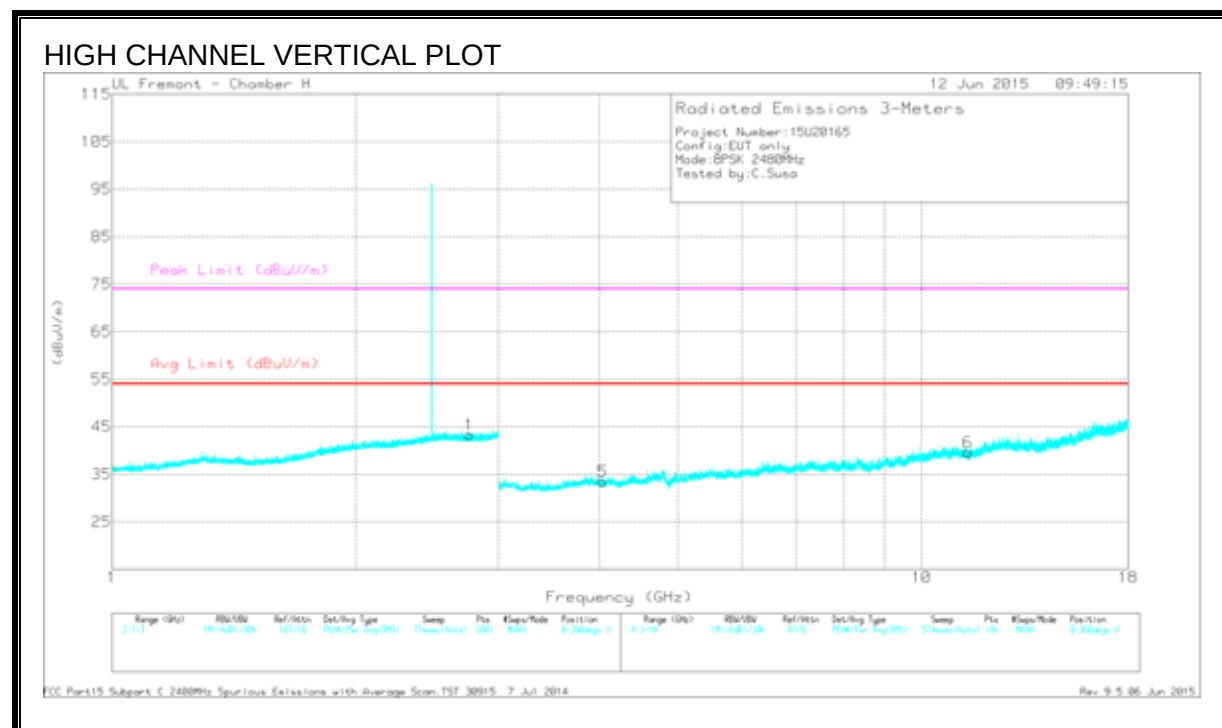
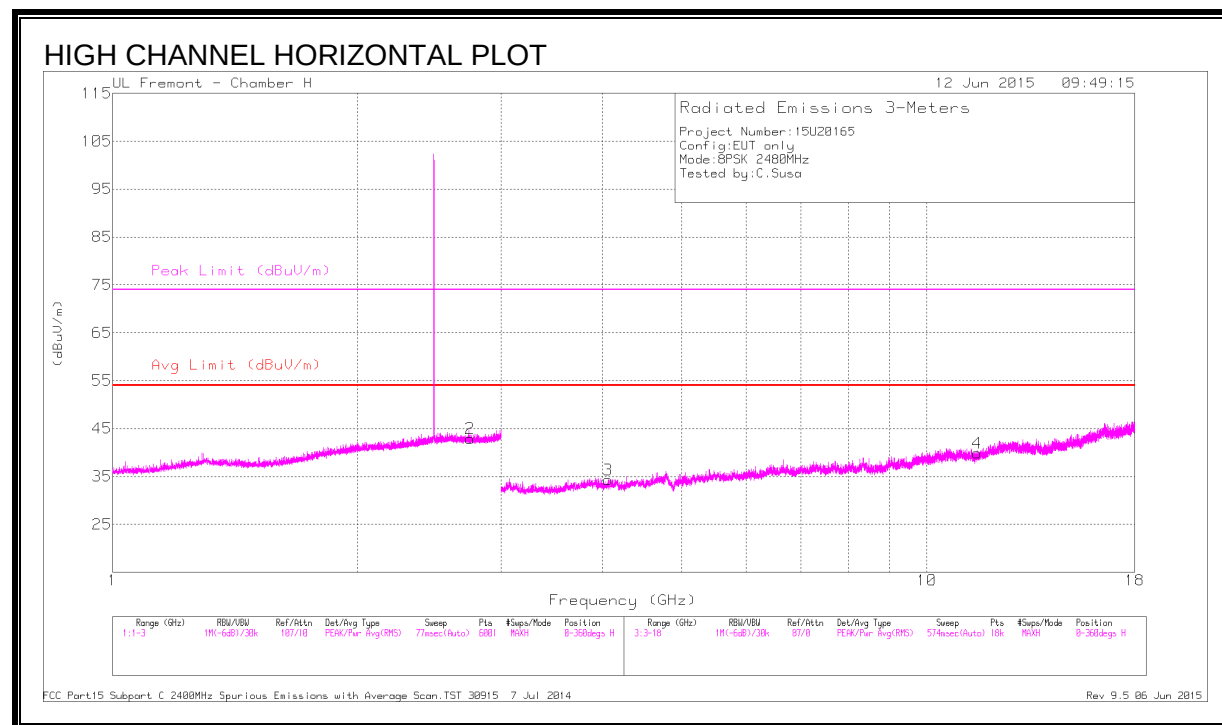
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.779	43.36	PK3	32.4	-24.3	51.46	-	-	74	-22.54	267	245	H
	* 2.775	31.1	VB10	32.4	-24.3	39.2	54	-14.8	-	-	267	245	H
2	* 2.758	43.39	PK3	32.3	-24.3	51.39	-	-	74	-22.61	211	218	V
	* 2.756	31.1	VB10	32.3	-24.3	39.1	54	-14.9	-	-	211	218	V
3	* 4.814	41.68	PK3	34.2	-32.4	43.48	-	-	74	-30.52	253	186	H
	* 4.814	29.71	VB10	34.2	-32.4	31.51	54	-22.49	-	-	253	186	H
4	* 11.805	36.14	PK3	38.3	-26	48.44	-	-	74	-25.56	360	261	H
	* 11.804	24.29	VB10	38.3	-26	36.59	54	-17.41	-	-	360	261	H
5	* 4.82	41.32	PK3	34.2	-32.4	43.12	-	-	74	-30.88	151	197	V
	* 4.822	29.53	VB10	34.2	-32.3	31.43	54	-22.57	-	-	151	197	V
6	* 11.751	36.51	PK3	38.2	-26.1	48.61	-	-	74	-25.39	261	152	V
	* 11.748	24.17	VB10	38.2	-26.1	36.27	54	-17.73	-	-	261	152	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.75	43.12	PK3	32.3	-24.3	51.12	-	-	74	-22.88	275	224	H
	* 2.746	31.03	VB10	32.3	-24.3	39.03	54	-14.97	-	-	275	224	H
1	* 2.759	43.15	PK3	32.3	-24.3	51.15	-	-	74	-22.85	287	308	V
	* 2.763	31.05	VB10	32.4	-24.3	39.15	54	-14.85	-	-	287	308	V
3	* 4.058	40.33	PK3	33.5	-32	41.83	-	-	74	-32.17	192	182	H
	* 4.055	28.75	VB10	33.5	-32	30.25	54	-23.75	-	-	192	182	H
4	* 11.524	36.3	PK3	38	-25.4	48.9	-	-	74	-25.1	232	155	H
	* 11.525	23.78	VB10	38	-25.4	36.38	54	-17.62	-	-	232	155	H
5	* 4.036	40.91	PK3	33.4	-32.5	41.81	-	-	74	-32.19	323	227	V
	* 4.034	29.15	VB10	33.4	-32.5	30.05	54	-23.95	-	-	323	227	V
6	* 11.412	35.4	PK3	37.9	-25.6	47.7	-	-	74	-26.3	213	337	V
	* 11.413	23.85	VB10	37.9	-25.6	36.15	54	-17.85	-	-	213	337	V

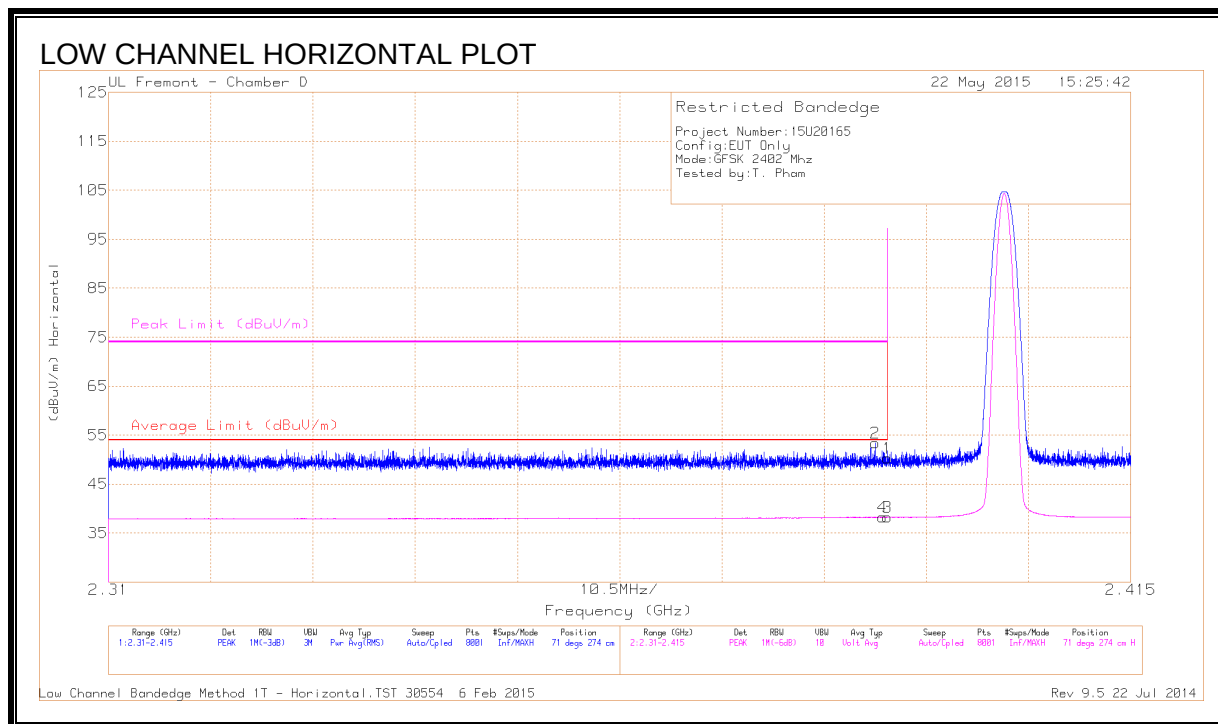
* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

10.2.3. LOW POWER BASIC DATA RATE GFSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filt r/Pad (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
2	* 2.389	42.05	PK	32.1	-20.7	0	53.45	-	-	74	-20.55	71	274	H
4	* 2.389	26.85	VB1T	32.1	-20.7	0	38.25	54	-15.75	-	-	71	274	H
1	* 2.39	38.88	PK	32.1	-20.7	0	50.28	-	-	74	-23.72	71	274	H
3	* 2.39	26.81	VB1T	32.1	-20.7	0	38.21	54	-15.79	-	-	71	274	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

LOW CHANNEL VERTICAL PLOT

UL Fremont - Chamber D 22 May 2015 15:28:17

Restricted Bandedge
Project Number: 15U20165
Config: EUT Only
Mode: GFSK 2402 MHz
Tested by: T. Pham

Vertical (dBuV/m)

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

Frequency (GHz)

Range (GHz) 1.231 to 2.415
Det PEAK
RBW 1MHz (3dB)
VBW 3Hz
Avg Type Post Avg (RMS)
Sweep Auto/Cycled
Pls 980
#Spts/Mode 10/1000
Position 37 degs 349 cm

Range (GHz) 2.231 to 2.415
Det PEAK
RBW 1MHz (3dB)
VBW 18
Avg Type Unit Avg
Sweep Auto/Cycled
Pls 680
#Spts/Mode 10/1000
Position 37 degs 349 cm U

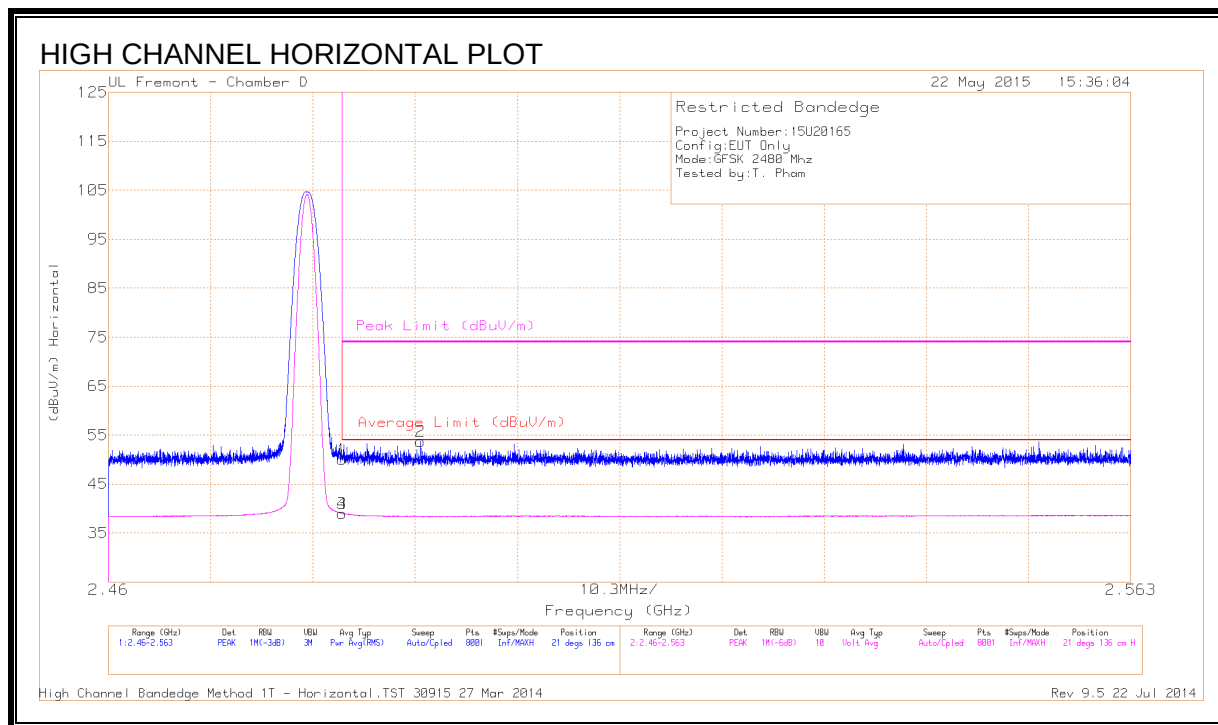
Low Channel Bandedge Method 1T - Vertical.TST 30554 6 Feb 2015

Rev 9.5 22 Jul 2014

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Fltr/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	* 2.39	39.04	PK	32.1	-20.7	50.44	-	-	74	-23.56	37	349	V
2	* 2.383	40.91	PK	32.1	-20.8	52.21	-	-	74	-21.79	37	349	V
3	* 2.39	26.81	VB1T	32.1	-20.7	38.21	54	-15.79	-	-	37	349	V
4	* 2.388	26.91	VB1T	32.1	-20.8	38.21	54	-15.79	-	-	37	349	V

VB1T - FHSS Method: $VB=1/T_{on}$, Voltage Averaging Max Hold where: T_{on} is the duration of the packet

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



DATA

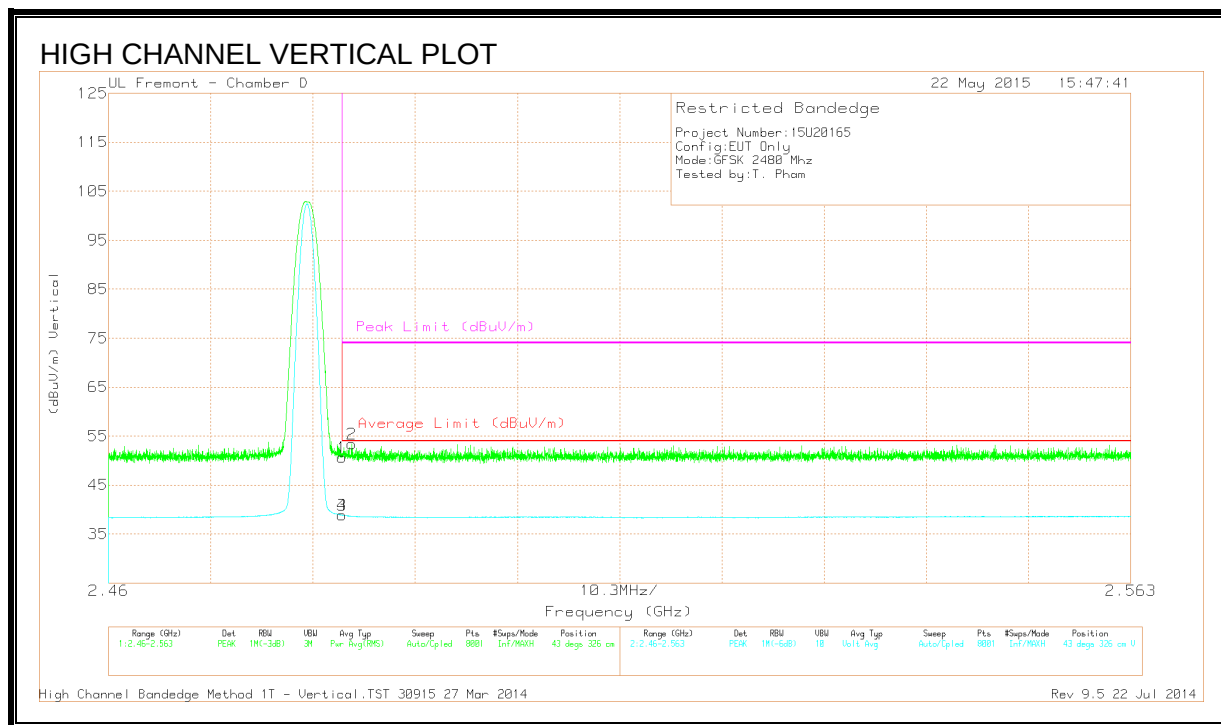
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.61	PK	32.2	-20.8	50.01	-	-	74	-23.99	21	136	H
2	* 2.491	42.31	PK	32.2	-20.8	53.71	-	-	74	-20.29	21	136	H
3	* 2.484	27.61	VB1T	32.2	-20.8	39.01	54	-14.99	-	-	21	136	H
4	* 2.484	27.61	VB1T	32.2	-20.8	39.01	54	-14.99	-	-	21	136	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEGE (HIGH CHANNEL, VERTICAL)



DATA

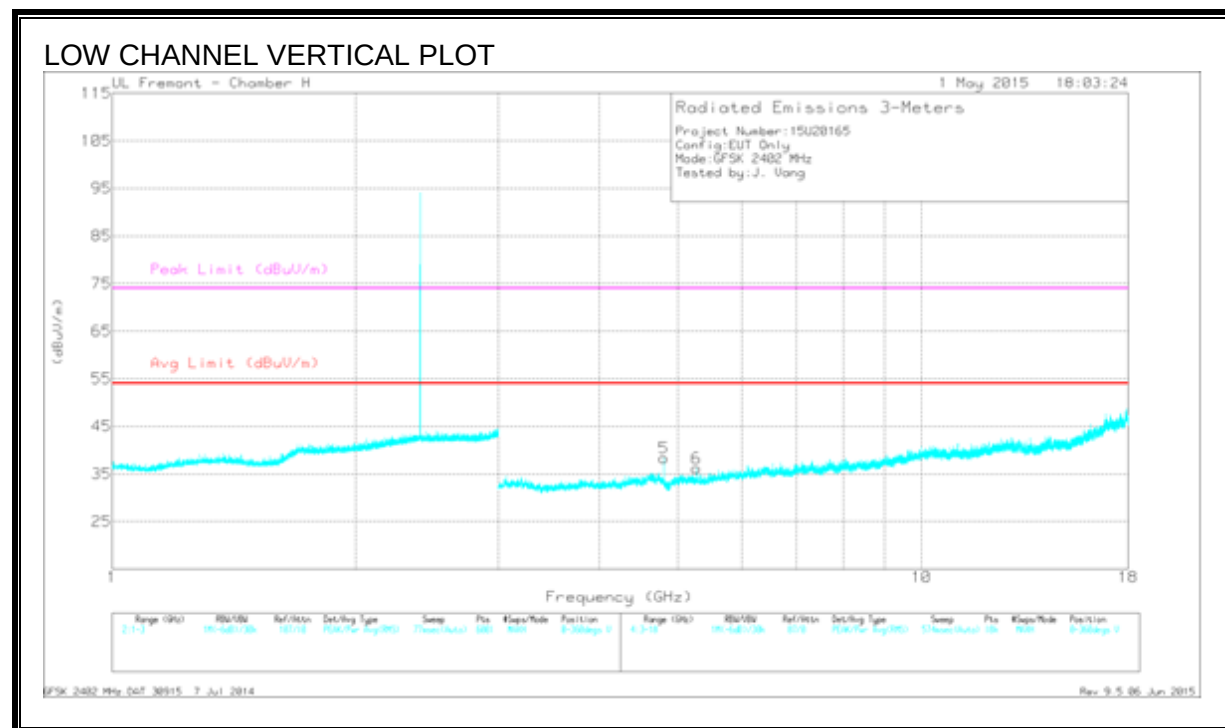
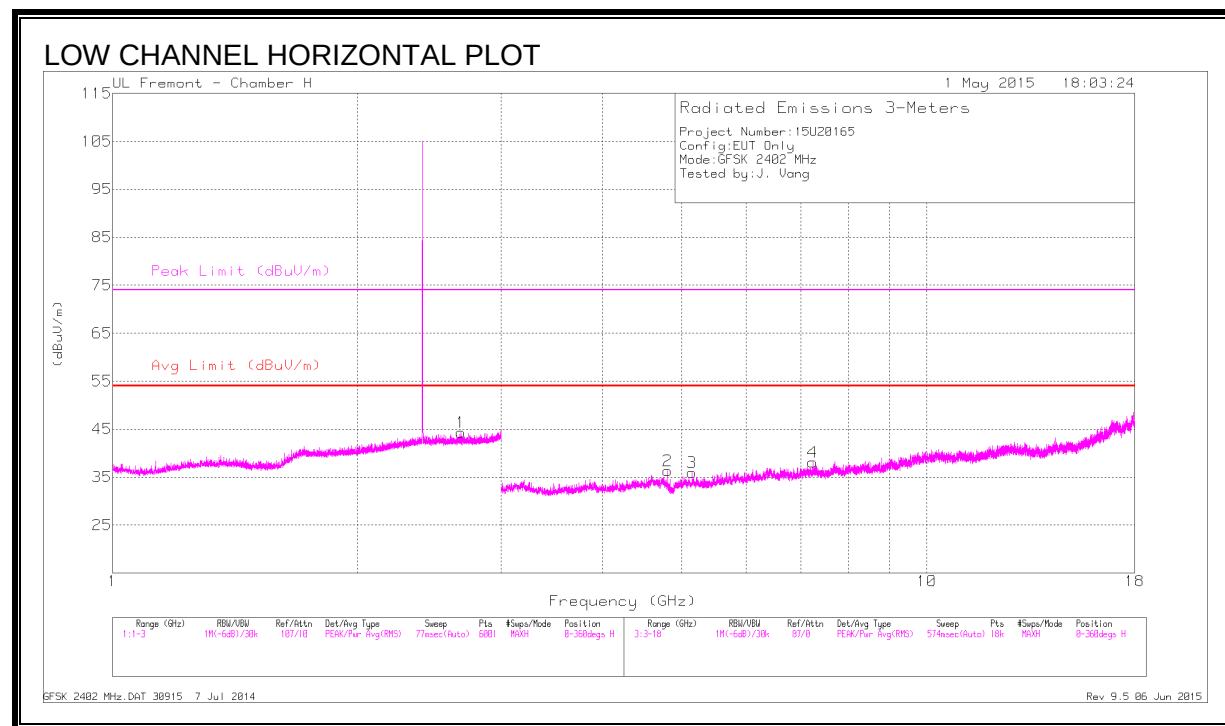
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.24	PK	32.2	-20.8	50.64	-	-	74	-23.36	43	326	V
2	* 2.484	42	PK	32.2	-20.8	53.4	-	-	74	-20.6	43	326	V
3	* 2.484	27.45	VB1T	32.2	-20.8	38.85	54	-15.15	-	-	43	326	V
4	* 2.484	27.44	VB1T	32.2	-20.8	38.84	54	-15.16	-	-	43	326	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

HARMONICS AND SPURIOUS EMISSIONS



DATA

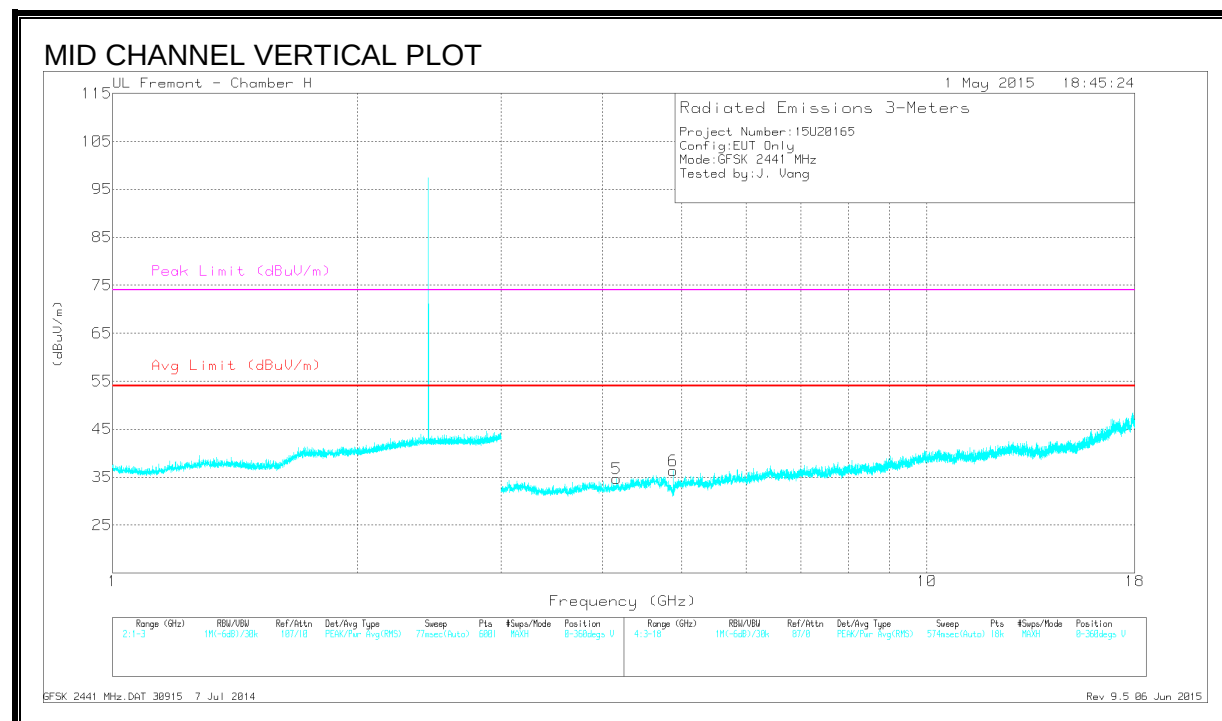
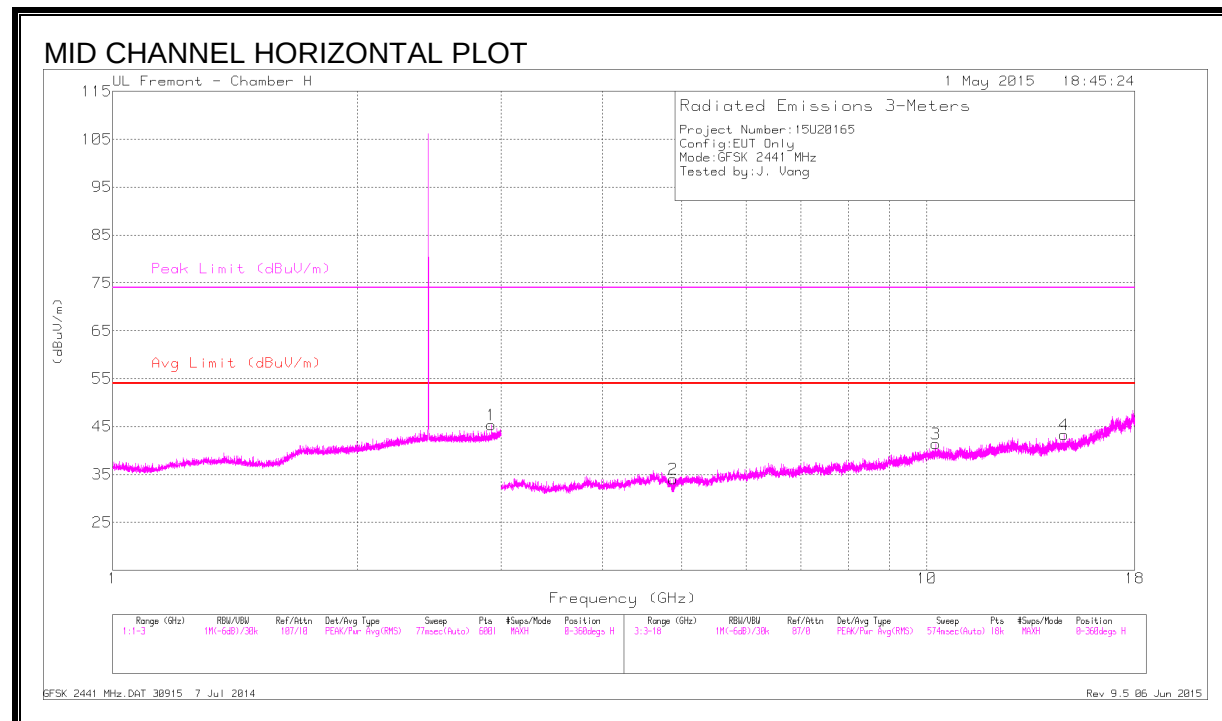
	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.678	43.7	PK3	32	-24.3	51.4	-	-	74	-22.6	62	242	H
	* 2.679	30.1	VB10	32	-24.3	37.8	54	-16.2	-	-	62	242	H
2	* 4.804	42.61	PK3	33.9	-32.5	44.01	-	-	74	-29.99	201	353	H
	* 4.804	34.08	VB10	33.9	-32.5	35.48	54	-18.52	-	-	201	353	H
3	* 5.146	40.32	PK3	34	-32.1	42.22	-	-	74	-31.78	45	100	H
	* 5.148	27.97	VB10	34	-32.1	29.87	54	-24.13	-	-	45	100	H
5	* 4.804	45.68	PK3	33.9	-32.5	47.08	-	-	74	-26.92	174	279	V
	* 4.804	39.2	VB10	33.9	-32.5	40.6	54	-13.4	-	-	174	279	V
6	5.272	40.8	PK3	34.1	-32.1	42.8	-	-	-	-	298	201	V
4	7.239	39.91	PK3	35.4	-30.3	45.01	-	-	-	-	50	201	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS



DATA

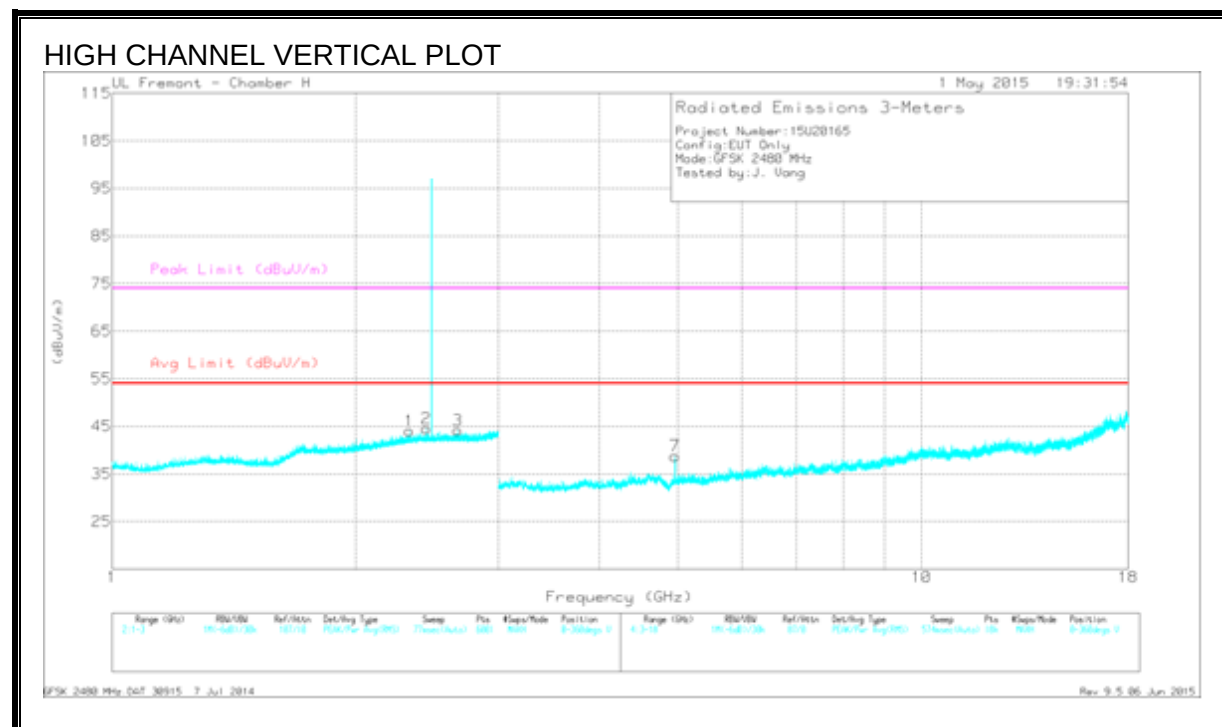
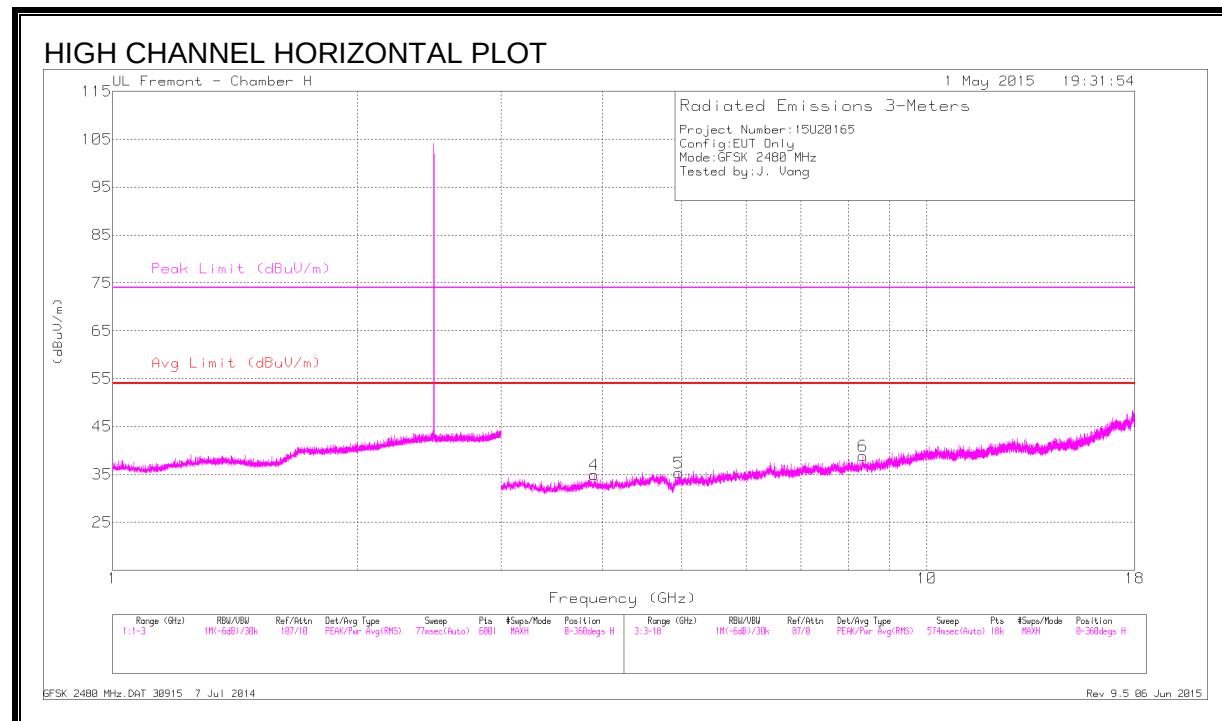
	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.882	40.47	PK3	33.8	-32.1	42.17	-	-	74	-31.83	208	302	H
	* 4.882	30.64	VB10	33.8	-32.1	32.34	54	-21.66	-	-	208	302	H
5	* 4.161	40.79	PK3	33.2	-32.3	41.69	-	-	74	-32.31	206	384	V
	* 4.161	28.25	VB10	33.2	-32.3	29.15	54	-24.85	-	-	206	384	V
6	* 4.882	41.79	PK3	33.8	-32.1	43.49	-	-	74	-30.51	161	305	V
	* 4.882	34.42	VB10	33.8	-32.1	36.12	54	-17.88	-	-	161	305	V
1	2.917	43.23	PK3	32.2	-24.1	51.33	-	-	-	-	253	202	H
3	10.252	36.01	PK3	37.4	-25.1	48.31	-	-	-	-	47	100	H
4	14.747	36.79	PK3	39.8	-27.1	49.49	-	-	-	-	293	100	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS



DATA

	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.327	43.37	PK3	31.9	-24.6	50.67	-	-	74	-23.33	106	222	V
	* 2.327	30.23	VB10	31.9	-24.6	37.53	54	-16.47	-	-	106	222	V
3	* 2.671	43.31	PK3	32	-24.3	51.01	-	-	74	-22.99	120	400	V
	* 2.671	30.1	VB10	32	-24.3	37.8	54	-16.2	-	-	120	400	V
4	* 3.904	41.8	PK3	33.1	-32.7	42.2	-	-	74	-31.8	85	247	H
	* 3.904	28.98	VB10	33.1	-32.8	29.28	54	-24.72	-	-	85	247	H
5	* 3.904	41.47	PK3	33.1	-32.7	41.87	-	-	74	-32.13	243	306	H
	* 3.904	28.97	VB10	33.1	-32.8	29.27	54	-24.73	-	-	243	306	H
5	* 4.96	41.52	PK3	33.9	-31.8	43.62	-	-	74	-30.38	174	122	H
	* 4.96	31.04	VB10	33.9	-31.8	33.14	54	-20.86	-	-	174	122	H
6	* 8.34	37.56	PK3	35.8	-27.6	45.76	-	-	74	-28.24	305	189	H
	* 8.339	24.97	VB10	35.8	-27.6	33.17	54	-20.83	-	-	305	189	H
7	* 4.96	44.62	PK3	33.9	-31.8	46.72	-	-	74	-27.28	164	268	V
	* 4.96	38.53	VB10	33.9	-31.8	40.63	54	-13.37	-	-	164	268	V
2	2.444	43.17	PK3	32.1	-24.6	50.67	-	-	-	-	119	201	V

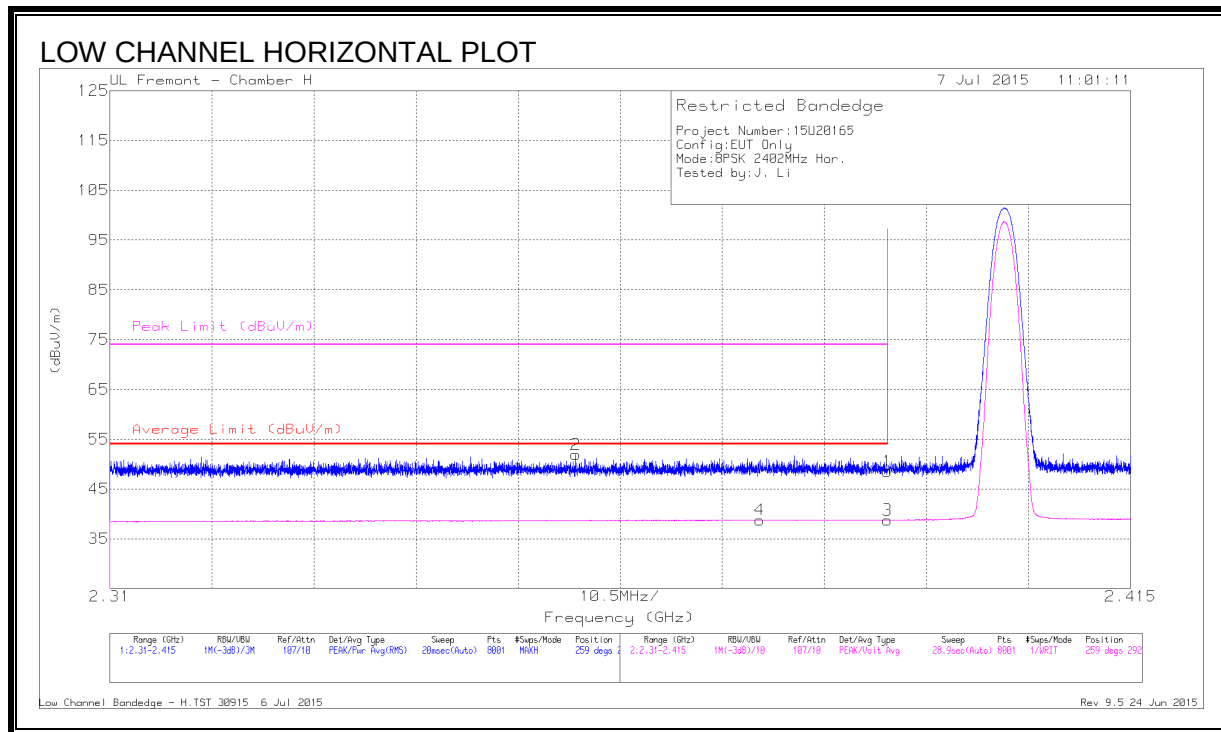
* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

10.2.4. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

RESTRICTED BANDEGE (LOW CHANNEL, HORIZONTAL)



DATA

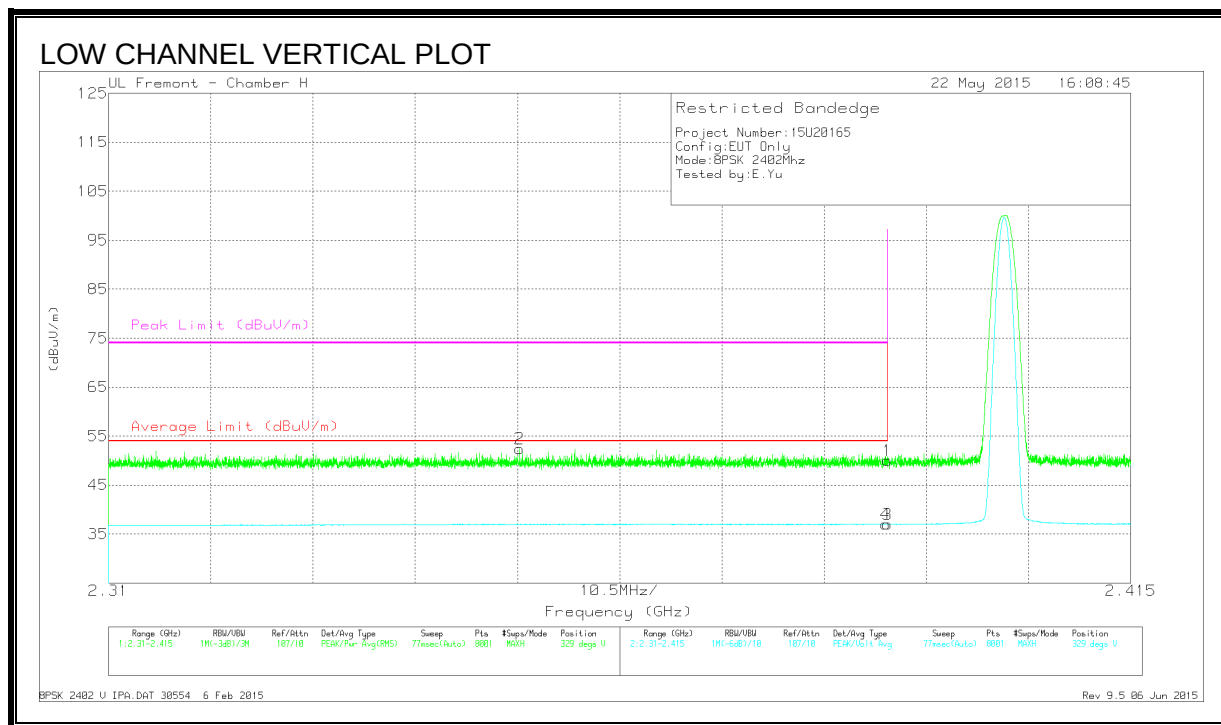
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.06	Pk	32	-23.5	48.56	-	-	74	-25.44	259	292	H
2	* 2.358	43.51	Pk	31.9	-23.5	51.91	-	-	74	-22.09	259	292	H
3	* 2.39	30.24	VB1T	32	-23.5	38.74	54	-15.26	-	-	259	292	H
4	* 2.377	30.28	VB1T	32	-23.5	38.78	54	-15.22	-	-	259	292	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEGE (LOW CHANNEL, VERTICAL)



DATA

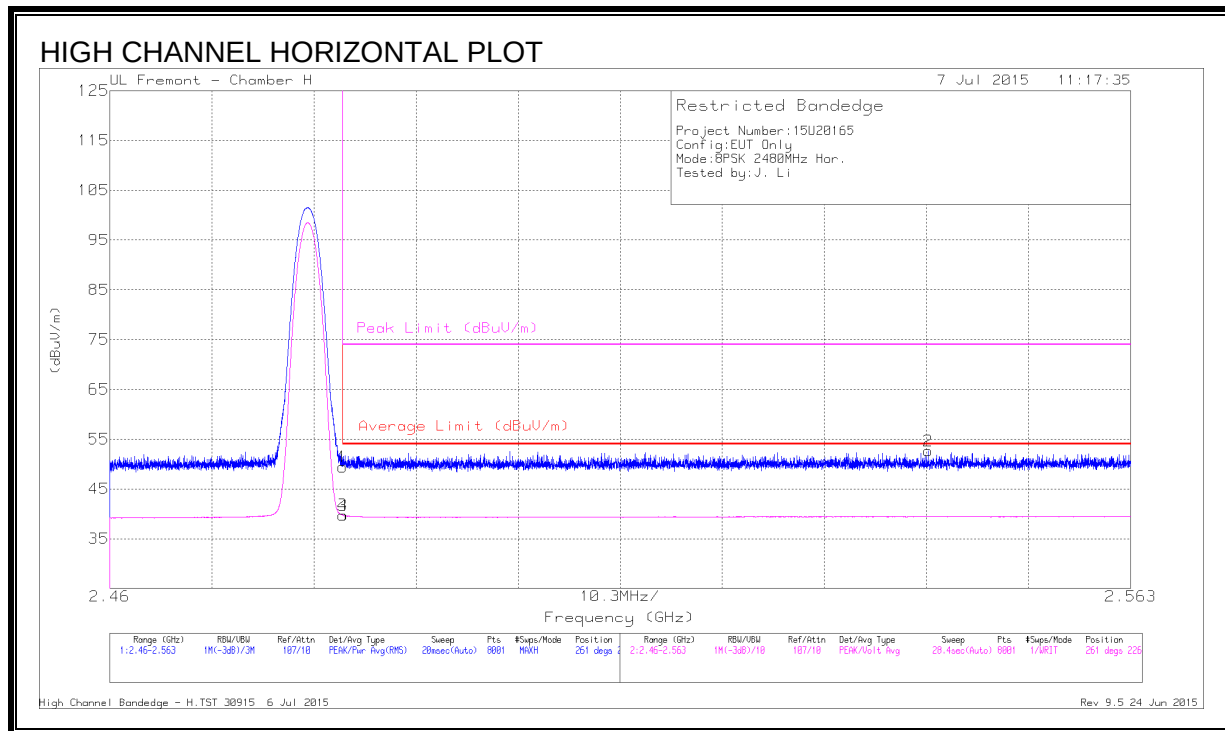
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.352	44.66	PK	32	-24.2	52.46	-	-	74	-21.54	329	262	V
1	* 2.39	42.17	PK	32.1	-24.2	50.07	-	-	74	-23.93	329	262	V
3	* 2.39	29.13	VB1T	32.1	-24.2	37.03	54	-16.97	-	-	329	262	V
4	* 2.39	29.16	VB1T	32.1	-24.2	37.06	54	-16.94	-	-	329	262	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEGE (HIGH CHANNEL, HORIZONTAL)



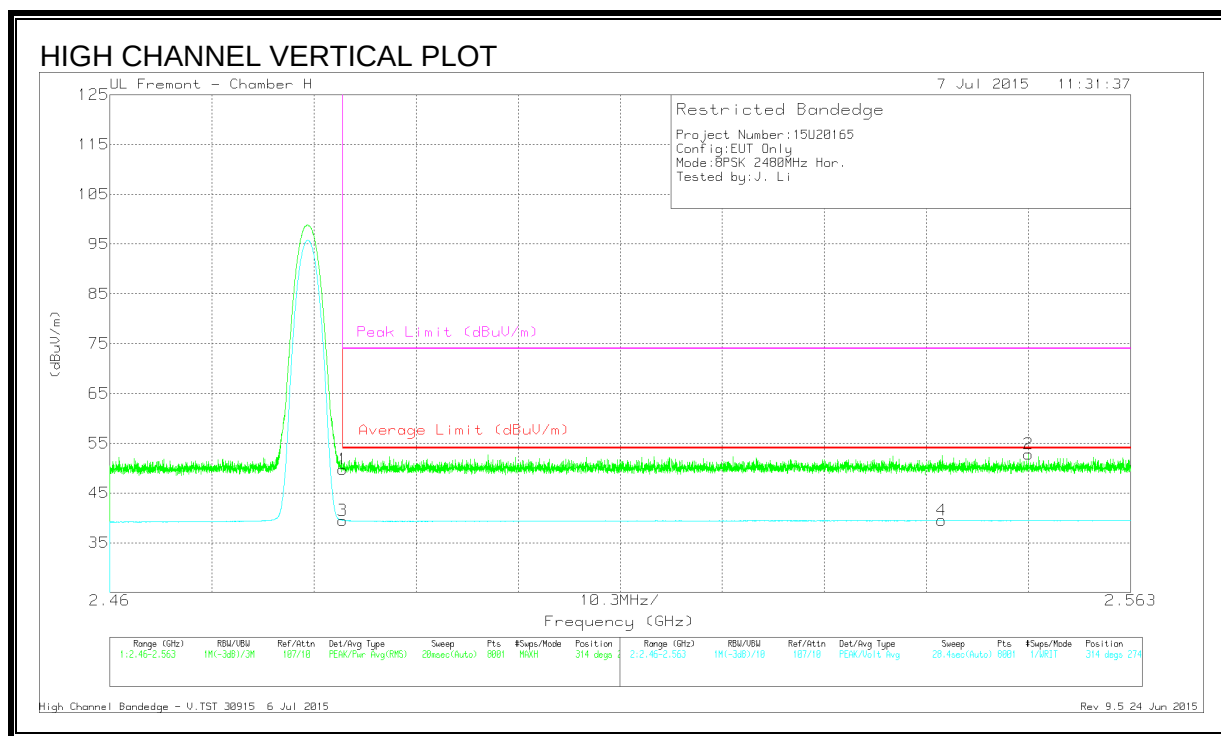
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Fitr/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	* 2.484	40.43	Pk	32.4	-23.4	49.43	-	-	74	-24.57	261	226	H
3	* 2.484	30.72	VB1T	32.4	-23.4	39.72	54	-14.28	-	-	261	226	H
4	* 2.484	30.69	VB1T	32.4	-23.4	39.69	54	-14.31	-	-	261	226	H
2	2.543	43.42	Pk	32.5	-23.3	52.62	-	-	74	-21.38	261	226	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet



DATA

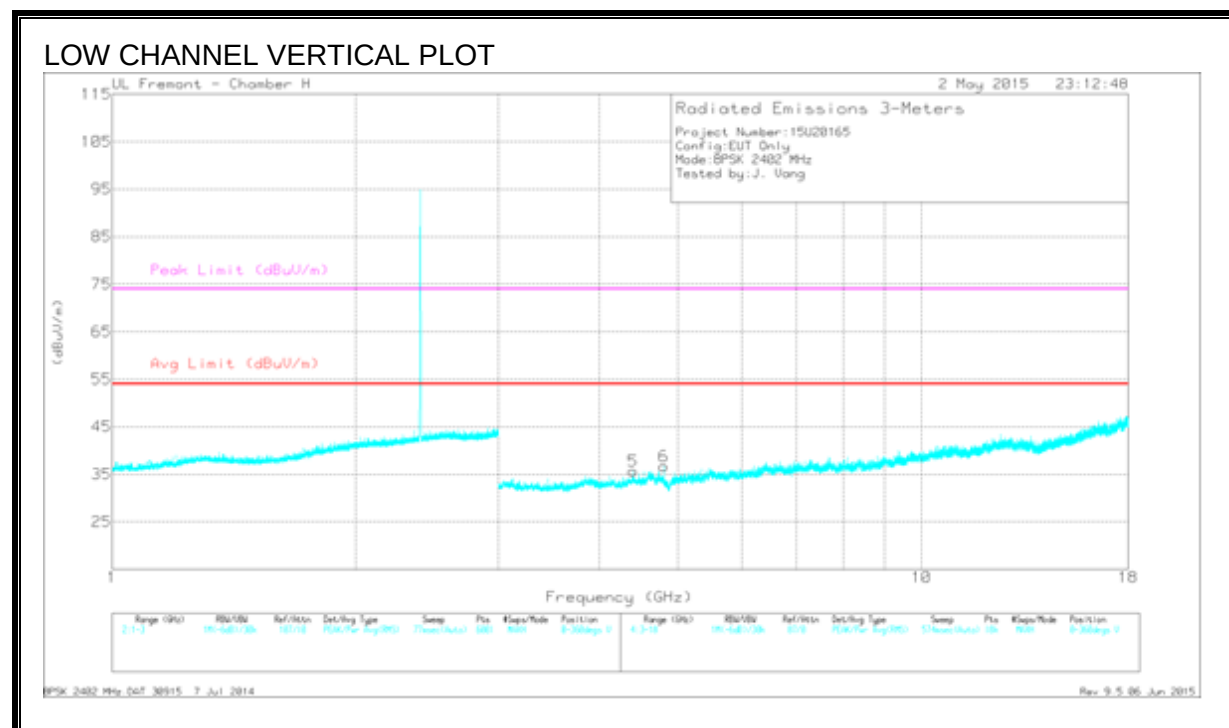
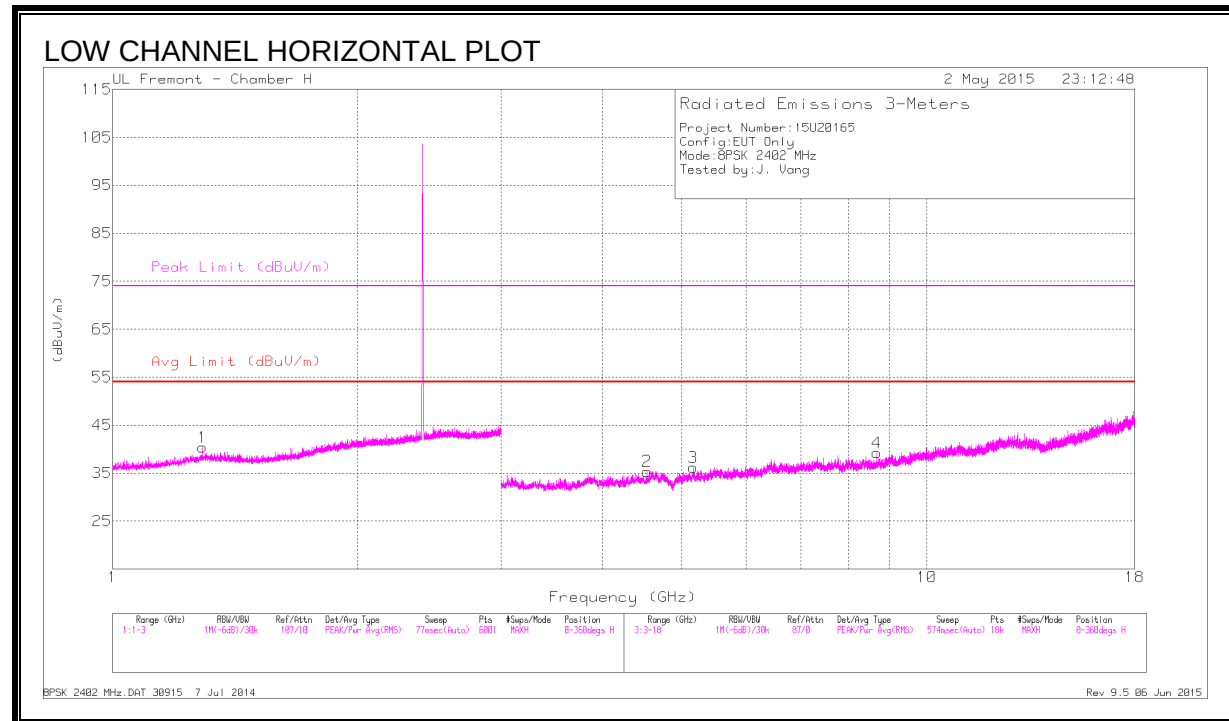
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.78	Pk	32.4	-23.4	49.78	-	-	74	-24.22	314	274	V
3	* 2.484	30.49	VB1T	32.4	-23.4	39.49	54	-14.51	-	-	314	274	V
4	2.544	30.32	VB1T	32.5	-23.3	39.52	54	-14.48	-	-	314	274	V
2	2.553	43.63	Pk	32.5	-23.3	52.83	-	-	74	-21.17	314	274	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

HARMONICS AND SPURIOUS EMISSIONS



DATA

	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.288	43.47	PK3	28.9	-25.8	46.57	-	-	74	-27.43	7	307	H
	* 1.291	30.7	VB10	28.9	-25.8	33.8	54	-20.2	-	-	7	307	H
2	* 4.53	41.16	PK3	33.9	-32.8	42.26	-	-	74	-31.74	15	168	H
	* 4.53	28.6	VB10	33.9	-32.8	29.7	54	-24.3	-	-	15	168	H
3	* 4.804	43.36	PK3	34.2	-32.5	45.06	-	-	74	-28.94	168	279	V
	* 4.804	33.39	VB10	34.2	-32.5	35.09	54	-18.91	-	-	168	279	V
5	4.402	41.22	PK3	33.7	-31.5	43.42	-	-	-	-	3	100	V
3	5.17	40.9	PK3	34.5	-32.1	43.3	-	-	-	-	203	371	H
4	8.682	37.27	PK3	36	-27.7	45.57	-	-	-	-	213	297	H

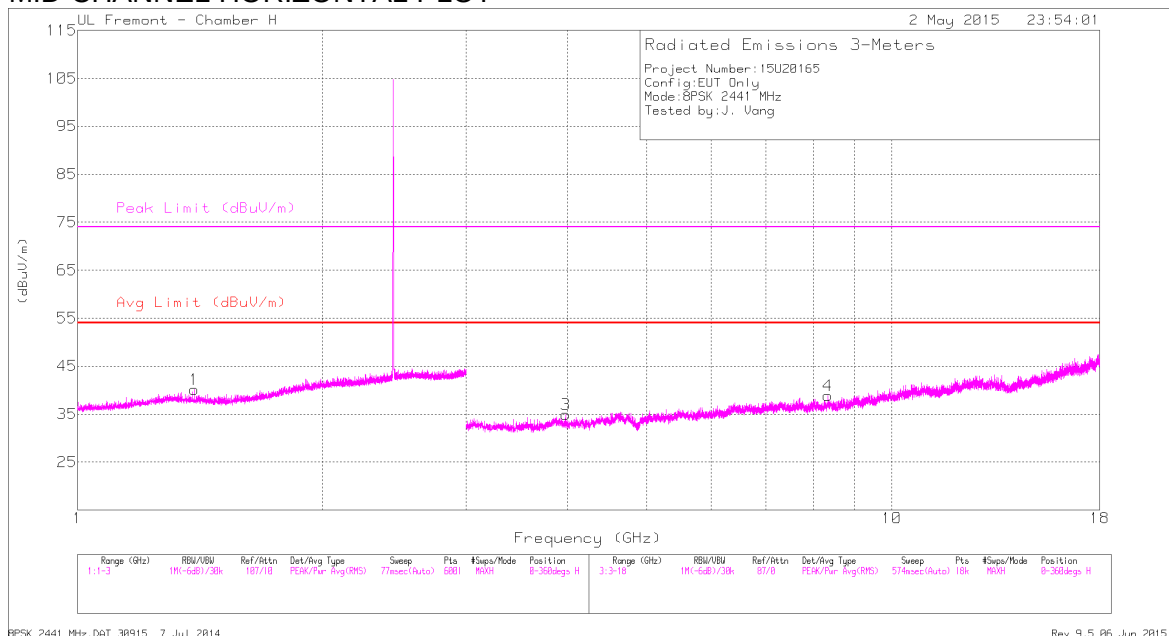
* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

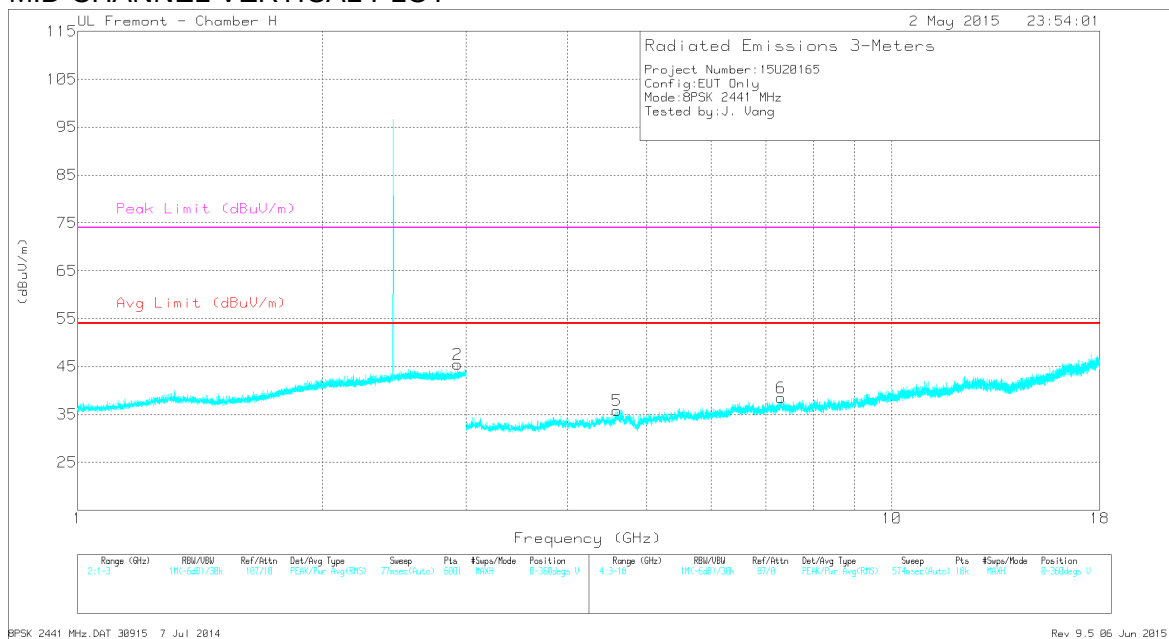
VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



DATA

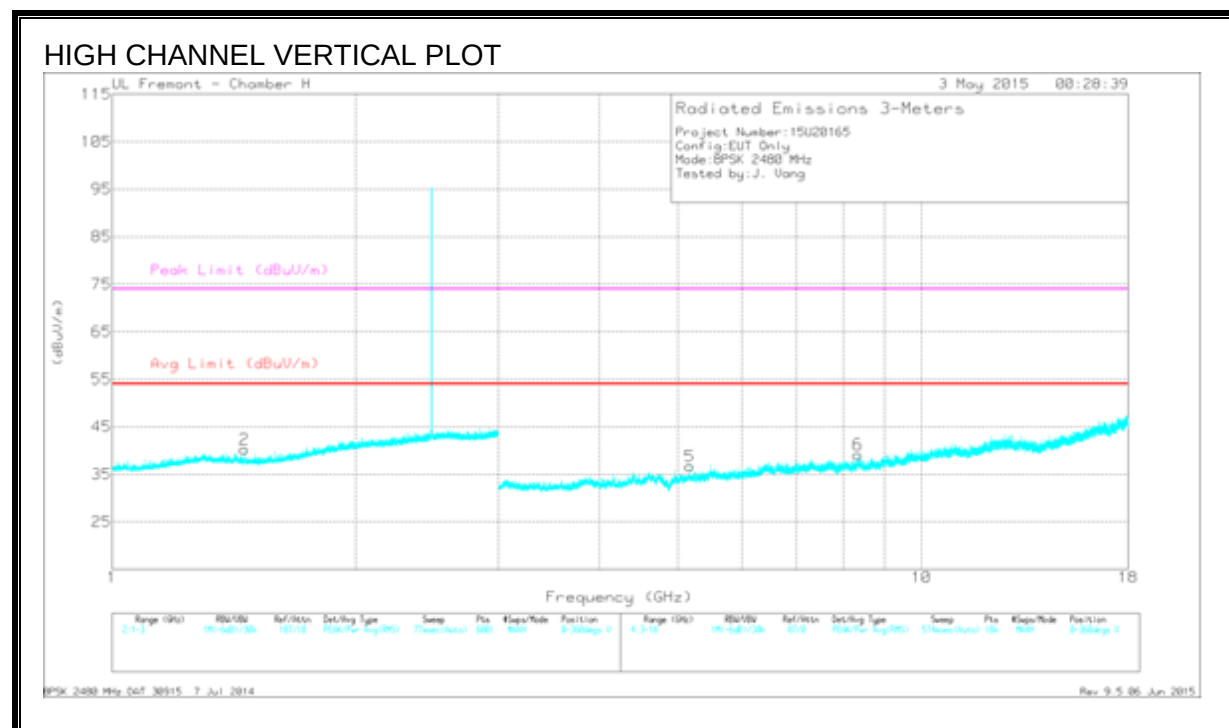
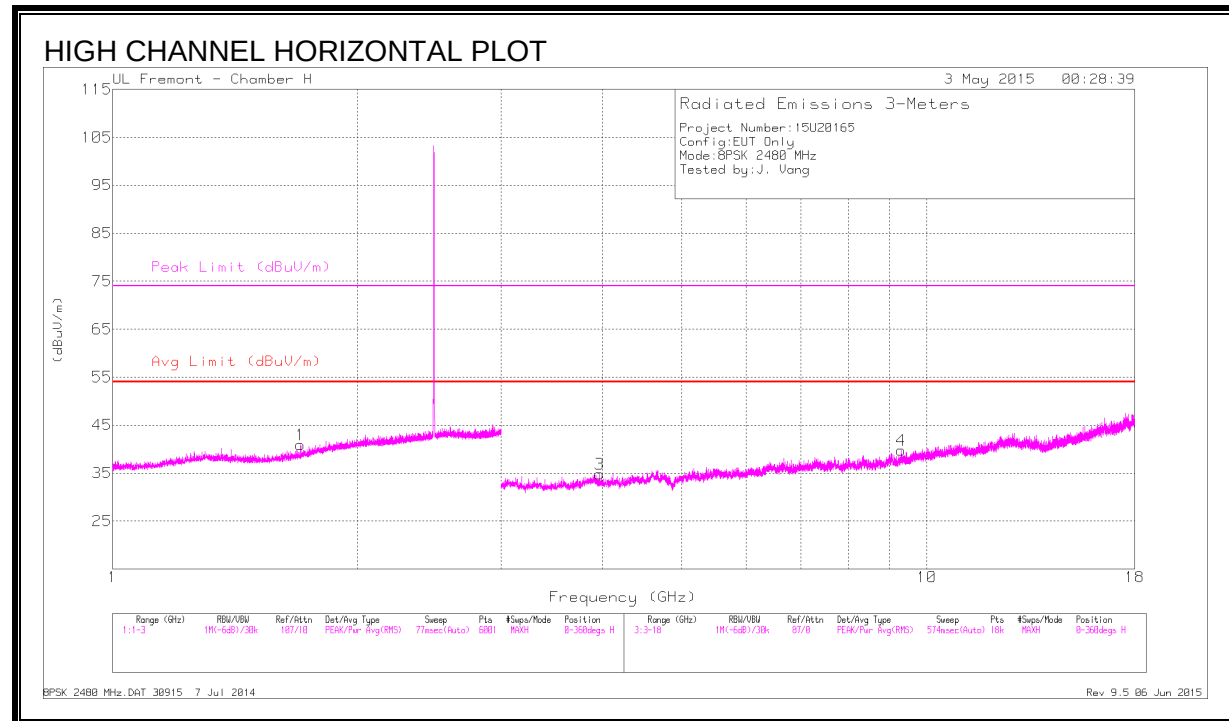
	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.389	43.67	PK3	28.5	-25.6	46.57	-	-	74	-27.43	98	113	H
	* 1.389	30.5	VB10	28.5	-25.6	33.4	54	-20.6	-	-	98	113	H
3	* 3.973	41.84	PK3	33.5	-33.2	42.14	-	-	74	-31.86	34	202	H
	* 3.974	28.79	VB10	33.5	-33.2	29.09	54	-24.91	-	-	34	202	H
4	* 8.341	37.76	PK3	35.9	-27.6	46.06	-	-	74	-27.94	230	197	H
	* 8.338	24.96	VB10	35.9	-27.7	33.16	54	-20.84	-	-	230	197	H
5	* 4.591	42.18	PK3	34	-32.5	43.68	-	-	74	-30.32	32	100	V
	* 4.594	29.1	VB10	34	-32.4	30.7	54	-23.3	-	-	32	100	V
6	* 7.308	39.02	PK3	35.9	-29.1	45.82	-	-	74	-28.18	92	100	V
	* 7.31	26.07	VB10	35.9	-29.1	32.87	54	-21.13	-	-	92	100	V
2	2.929	43.42	PK3	32.6	-24.1	51.92	-	-	-	-	226	201	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS



DATA

	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT863 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.699	43.43	PK3	28.9	-25	47.33	-	-	74	-26.67	130	135	H
	* 1.7	30.26	VB10	28.9	-25	34.16	54	-19.84	-	-	130	135	H
2	* 1.458	43.55	PK3	28.3	-25.5	46.35	-	-	74	-27.65	64	100	V
	* 1.457	30.41	VB10	28.3	-25.5	33.21	54	-20.79	-	-	64	100	V
3	* 3.963	41.08	PK3	33.5	-33.1	41.48	-	-	74	-32.52	297	259	H
	* 3.965	28.82	VB10	33.5	-33.1	29.22	54	-24.78	-	-	297	259	H
4	* 9.307	36.86	PK3	36.4	-26.4	46.86	-	-	74	-27.14	305	223	H
	* 9.303	24	VB10	36.4	-26.4	34	54	-20	-	-	305	223	H
6	* 8.343	38.05	PK3	35.9	-27.5	46.45	-	-	74	-27.55	308	188	V
	* 8.344	24.99	VB10	35.9	-27.5	33.39	54	-20.61	-	-	308	188	V
5	5.174	40.29	PK3	34.5	-32.1	42.69	-	-	-	-	238	120	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

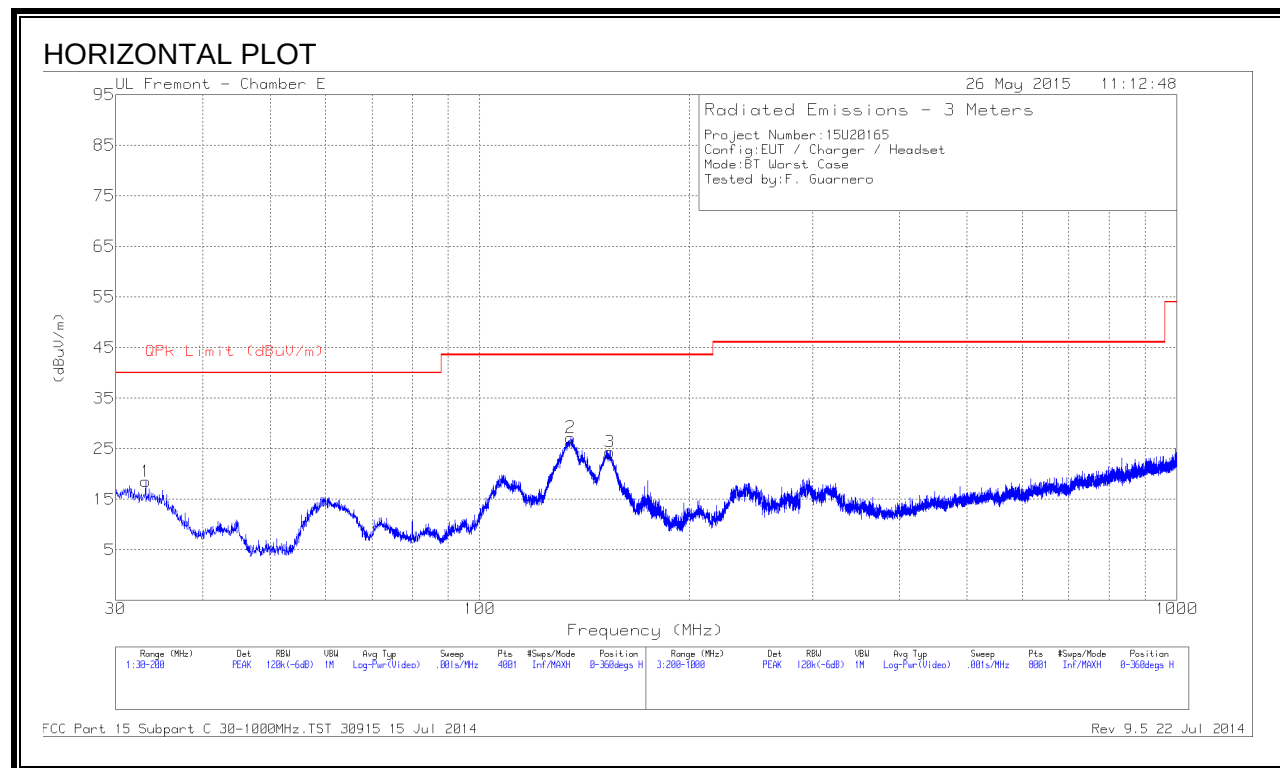
PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

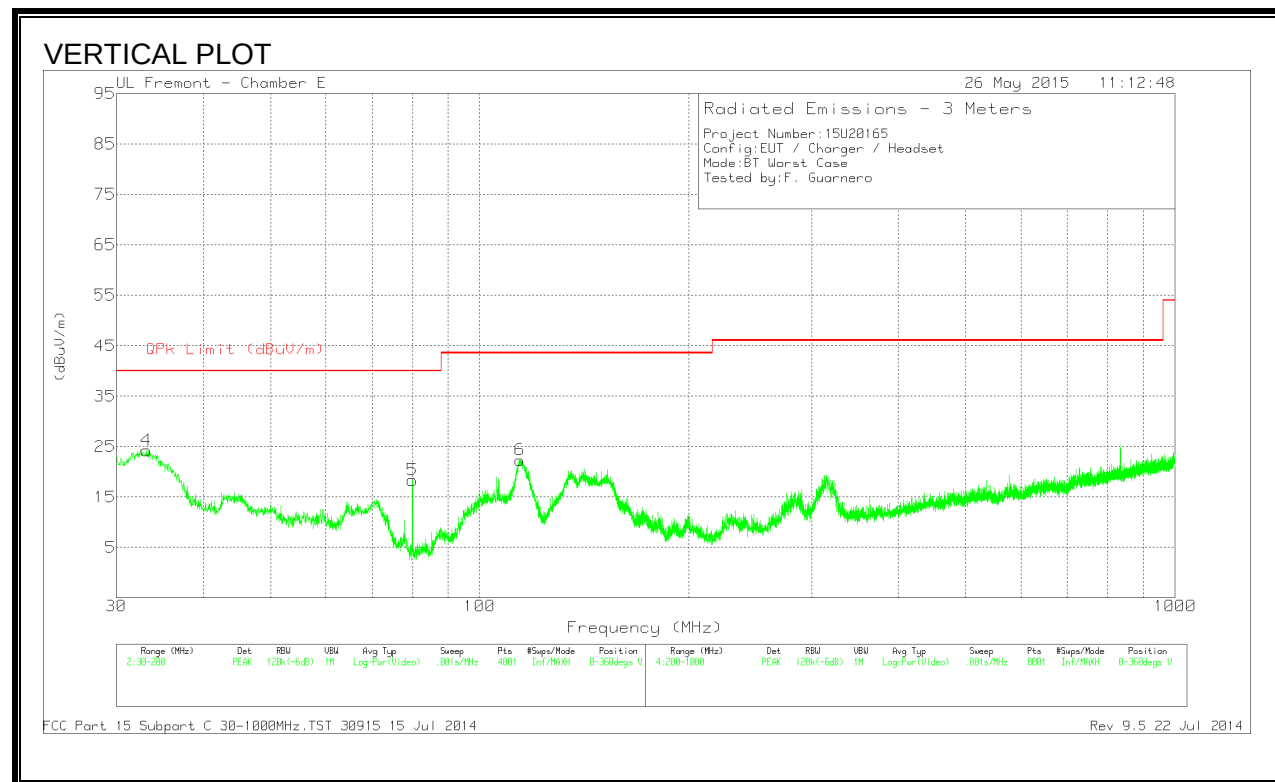
10.3. WORST-CASE BELOW 1 GHz

10.3.1. HIGH POWER

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



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



DATA

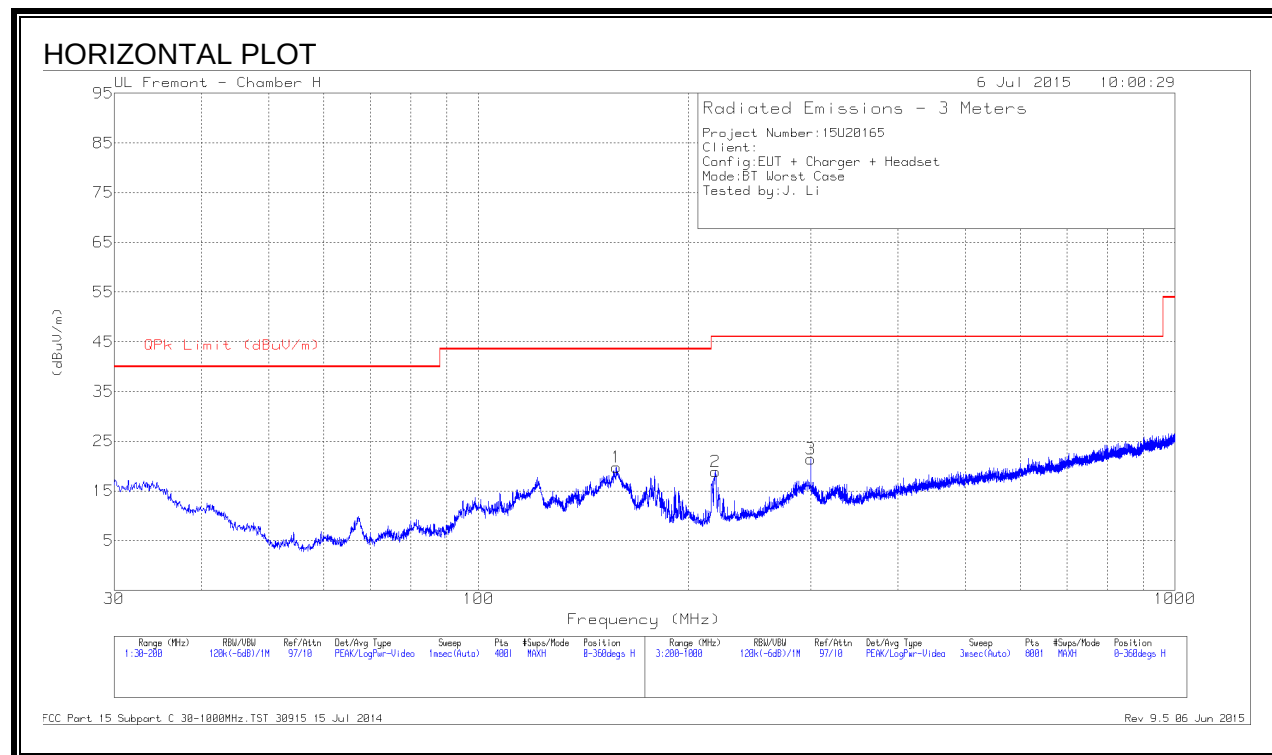
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T408 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	33.145	31.04	PK	19.3	-31.8	18.54	40	-21.46	0-360	201	H
2	* 135.06	44.98	PK	13.3	-31.1	27.18	43.52	-16.34	0-360	201	H
3	153.505	43.15	PK	12.3	-31.1	24.35	43.52	-19.17	0-360	201	H
4	33.145	36.73	PK	19.3	-31.8	24.23	40	-15.77	0-360	100	V
5	80.0013	41.85	PK	8	-31.5	18.35	40	-21.65	0-360	100	V
6	* 114.1925	40.34	PK	13.2	-31.2	22.34	43.52	-21.18	0-360	100	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

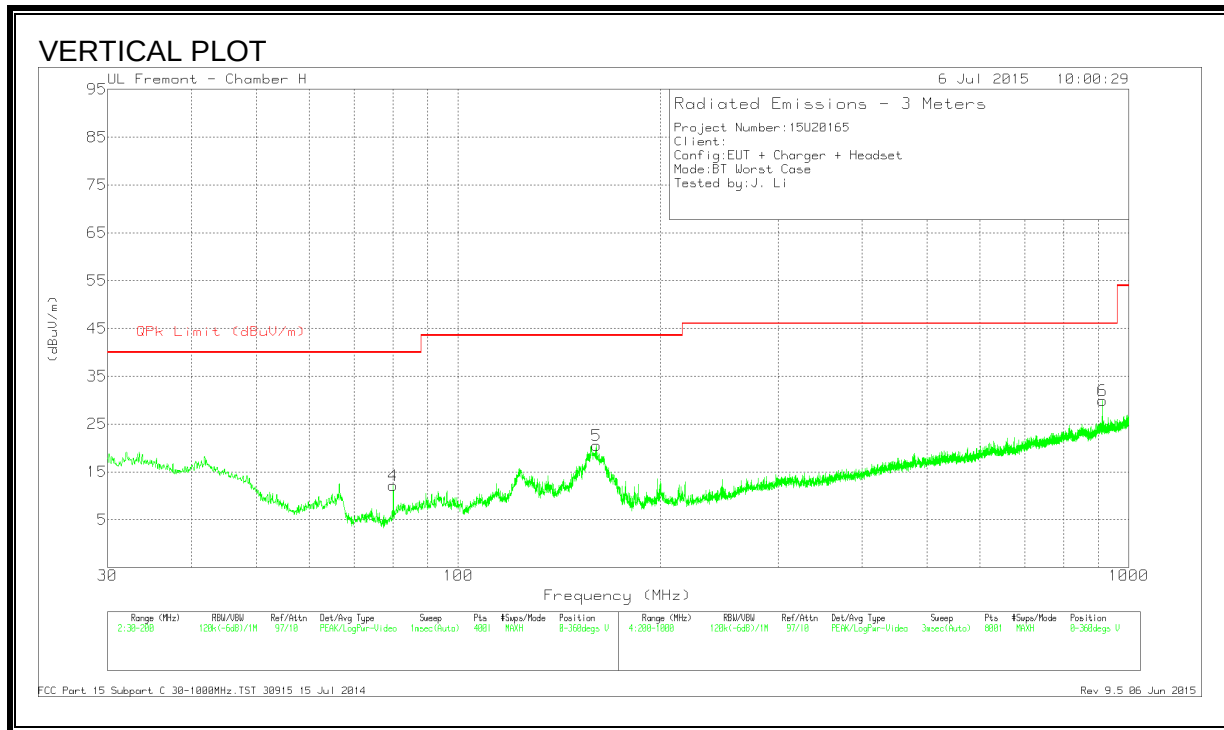
PK - Peak detector

10.3.2. LOW POWER

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



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



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T900 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	80.0225	35.08	Pk	7.8	-30.7	12.18	40	-27.82	0-360	100	V
1	157.67	37.71	Pk	12.1	-30	19.81	43.52	-23.71	0-360	201	H
5	160.6875	38.58	Pk	11.9	-30	20.48	43.52	-23.04	0-360	100	V
2	218.9	38.13	Pk	10.5	-29.7	18.93	46.02	-27.09	0-360	100	H
3	300	37.3	Pk	13.2	-29.1	21.4	46.02	-24.62	0-360	100	H
6	913.1	33.81	Pk	22.5	-26.4	29.91	46.02	-16.11	0-360	99	V

Pk - Peak detector

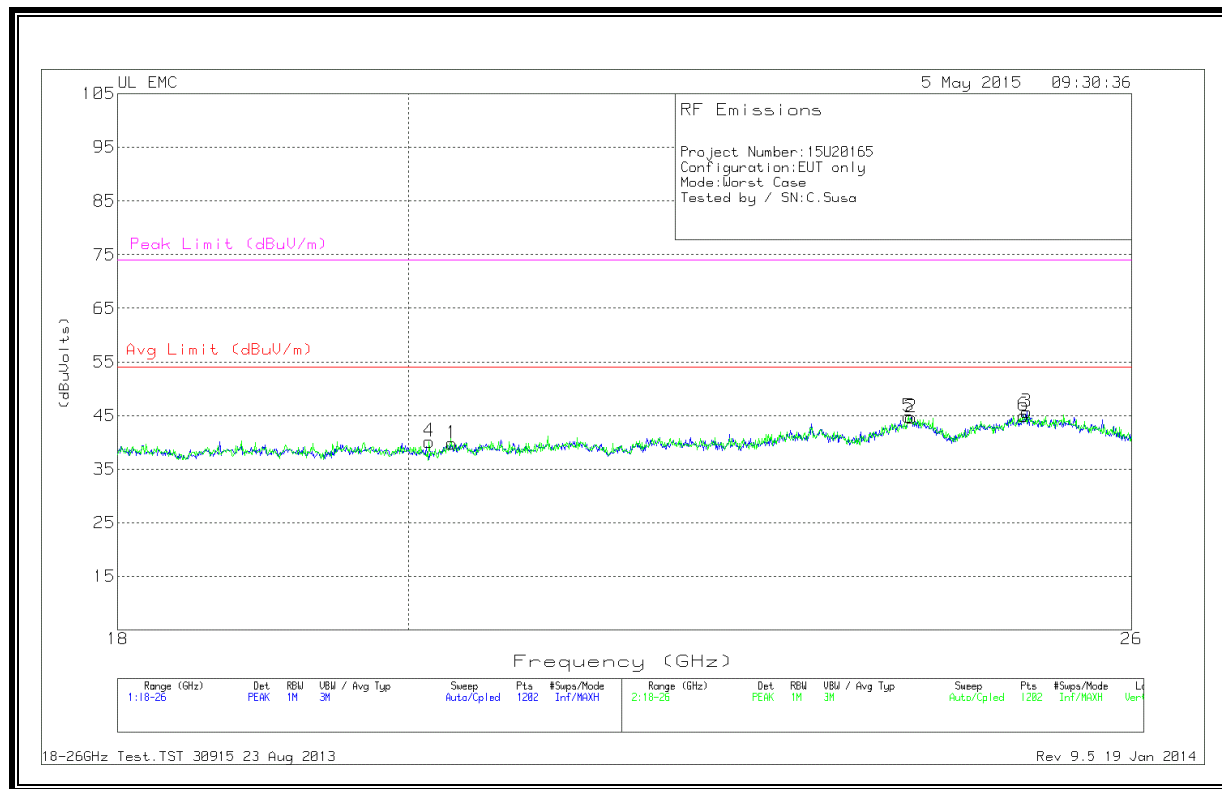
FCC Part 15 Subpart C 30-1000MHz.TST 30915 15 Jul 2014

Rev 9.5 06 Jun 2015

10.4. WORST-CASE ABOVE 18 GHz

10.4.1. HIGH POWER

SPURIOUS EMISSIONS 18 TO 26 GHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)



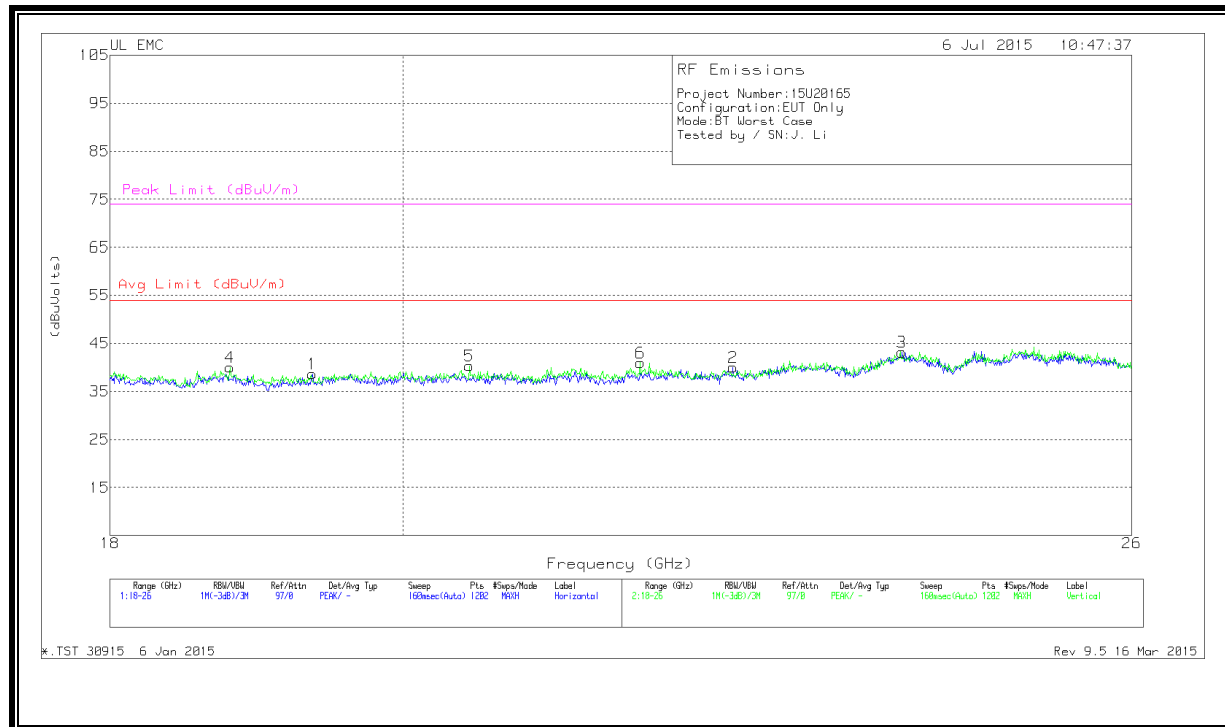
Data

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T89 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	20.318	41.53	PK	32.9	-25.1	-9.5	39.833	54	-14.167	74	-34.167
2	24.002	43.47	PK	34.2	-23.5	-9.5	44.667	54	-9.333	74	-29.333
3	25.027	44.47	PK	34.5	-23.8	-9.5	45.667	54	-8.333	74	-28.333
4	20.152	42.17	PK	33	-25.5	-9.5	40.167	54	-13.833	74	-33.833
5	23.982	43.53	PK	34.2	-23.4	-9.5	44.833	54	-9.167	74	-29.167
6	25.001	43.6	PK	34.5	-23.6	-9.5	45	54	-9	74	-29

PK - Peak detector

10.4.2. LOW POWER

SPURIOUS EMISSIONS 18 TO 26 GHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T89 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	19.359	40.67	Pk	32.4	-24.9	-9.5	38.67	54	-15.33	74	-35.33
2	22.523	41.2	Pk	33.4	-25.1	-9.5	40	54	-14	74	-34
3	23.935	43.37	Pk	33.4	-24.1	-9.5	43.17	54	-10.83	74	-30.83
4	18.793	41.9	Pk	32.5	-24.9	-9.5	40	54	-14	74	-34
5	20.485	42.43	Pk	32.7	-25.3	-9.5	40.33	54	-13.67	74	-33.67
6	21.784	42.1	Pk	33.3	-24.9	-9.5	41	54	-13	74	-33

Pk - Peak detector

*.TST 30915 6 Jan 2015

Rev 9.5 16 Mar 2015

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	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.

11.1. EUT POWERED BY AC/DC ADAPTER VIA USB CABLE

6 WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1	LC Cables 1&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
1	.168	46.38	Pk	1.2	0	47.58	65.06	-17.48		
2	.168	26.77	Av	1.2	0	27.97	-	-	55.06	-27.09
3	.2535	43.41	Pk	.7	0	44.11	61.64	-17.53		
4	.2535	23.86	Av	.7	0	24.56	-	-	51.64	-27.08
5	.33	40	Pk	.5	0	40.5	59.45	-18.95		
6	.339	19.61	Av	.5	0	20.11	-	-	49.23	-29.12
7	.789	41.88	Pk	.3	0	42.18	56	-13.82		
8	.789	26.72	Av	.3	0	27.02	-	-	46	-18.98
9	17.979	28.35	Pk	.3	.2	28.85	60	-31.15		
10	17.9565	13.11	Av	.3	.2	13.61	-	-	50	-36.39

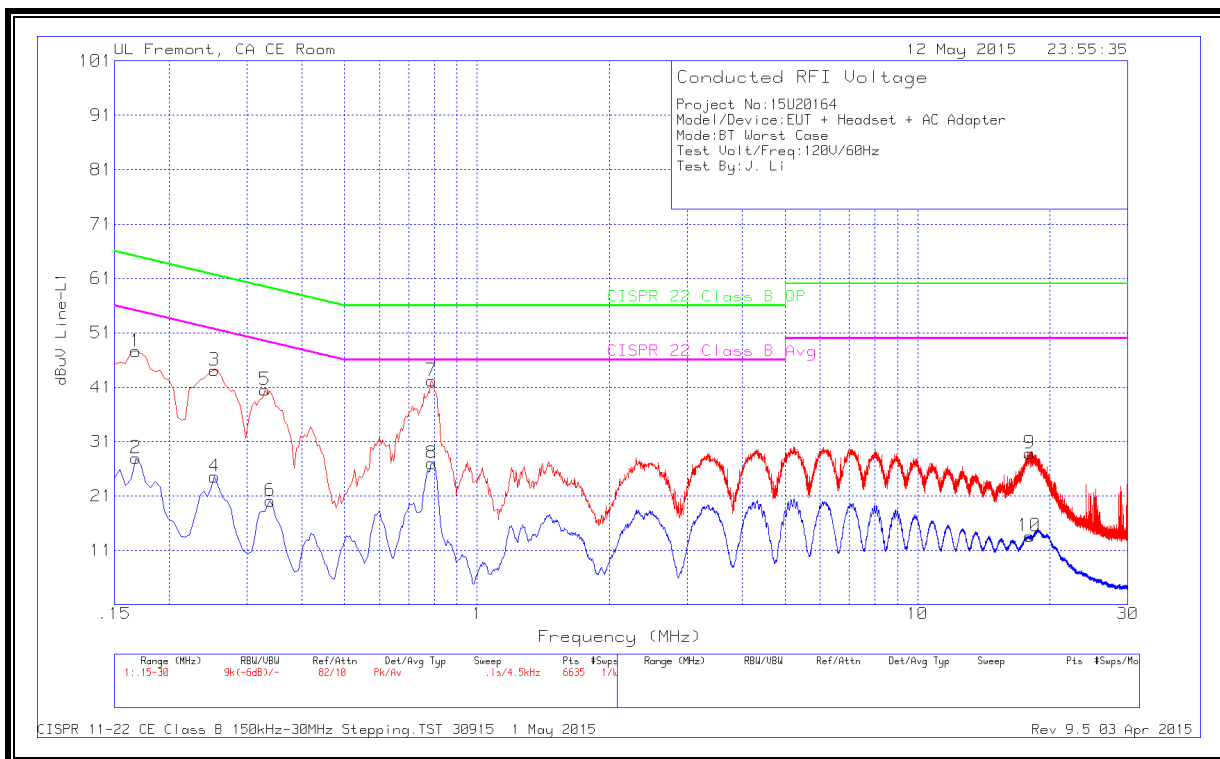
Range 2: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2	LC Cables 2&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
11	.168	45.73	Pk	1.3	0	47.03	65.06	-18.03		
12	.168	26.33	Av	1.3	0	27.63	-	-	55.06	-27.43
13	.2535	42.96	Pk	.7	0	43.66	61.64	-17.98		
14	.2535	23.42	Av	.7	0	24.12	-	-	51.64	-27.52
15	.339	38.93	Pk	.5	0	39.43	59.23	-19.8		
16	.339	19.85	Av	.5	0	20.35	-	-	49.23	-28.88
17	.7845	41.33	Pk	.3	0	41.63	56	-14.37		
18	.789	26.08	Av	.3	0	26.38	-	-	46	-19.62
19	18.015	25.8	Pk	.3	.2	26.3	60	-33.7		
20	18.015	16.53	Av	.3	.2	17.03	-	-	50	-32.97

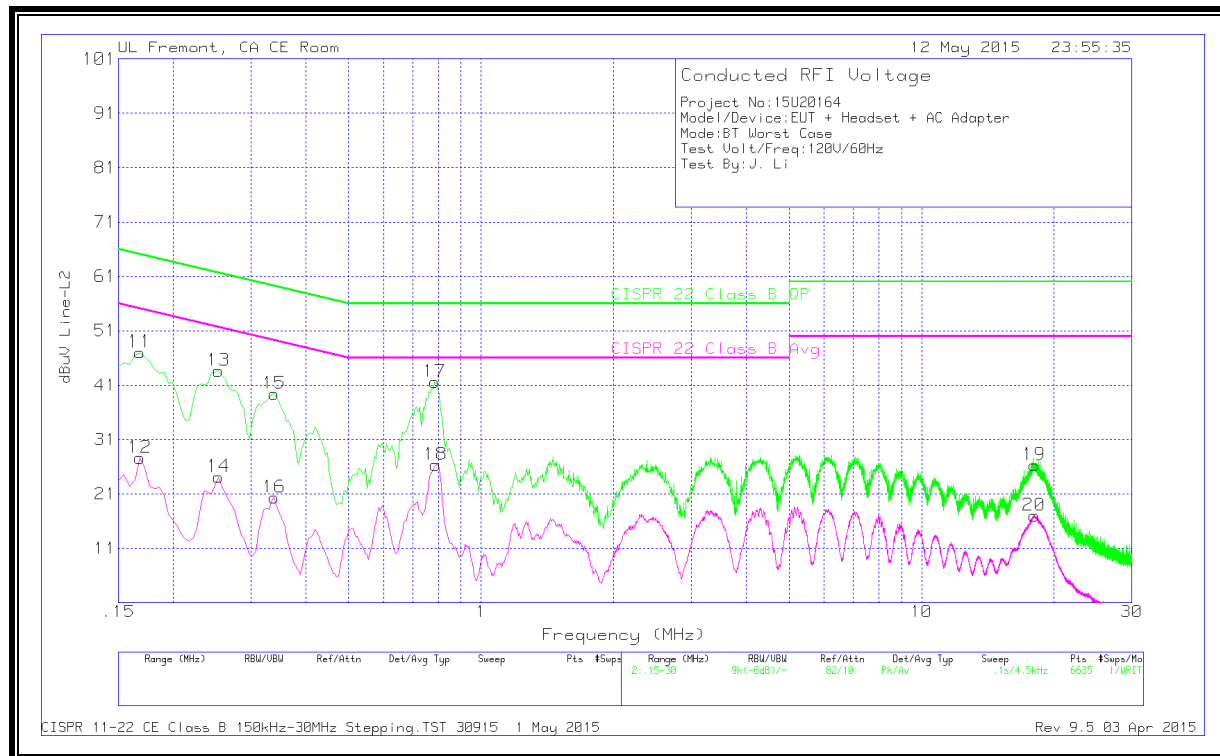
Pk - Peak detector

Av - Average detection

LINE 1 RESULTS



LINE 2 RESULTS



11.2. EUT POWERED BY HOST PC VIA USB CABLE

6 WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1	LC Cables 1&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
1	.1545	53.86	Pk	1.3	0	55.16	65.75	-10.59		
2	.1545	43.49	Av	1.3	0	44.79	-	-	55.75	-10.96
3	.2175	48.35	Pk	.8	0	49.15	62.91	-13.76		
4	.2355	35.58	Av	.8	0	36.38	-	-	52.25	-15.87
5	.447	46.55	Pk	.4	0	46.95	56.93	-9.98		
6	.447	33.58	Av	.4	0	33.98	-	-	46.93	-12.95
7	.537	44.5	Pk	.3	0	44.8	56	-11.2		
8	.537	33.78	Av	.3	0	34.08	-	-	46	-11.92

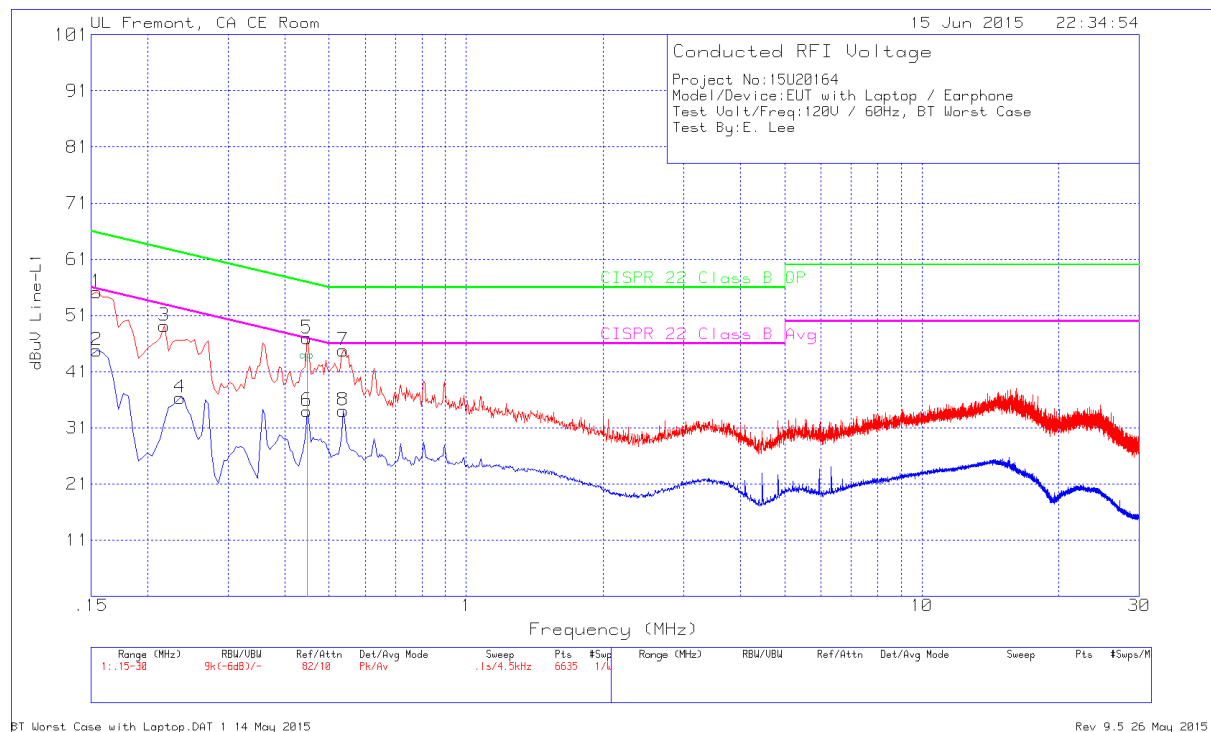
Range 2: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2	LC Cables 2&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
9	.357	47.92	Pk	.5	0	48.42	58.8	-10.38		
10	.357	34.88	Av	.5	0	35.38	-	-	48.8	-13.42
11	.447	46.61	Pk	.4	0	47.01	56.93	-9.92		
12	.447	34.8	Av	.4	0	35.2	-	-	46.93	-11.73
13	.537	46.56	Pk	.3	0	46.86	56	-9.14		
14	.537	34.8	Av	.3	0	35.1	-	-	46	-10.9

Pk - Peak detector

Av - Average detection

LINE 1 RESULTS



LINE 2 RESULTS

