

DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 4.96	48.73	PK3	34.1	-30.2	52.63	-	-	74	-21.37	345	322	H
	* 4.96	28.73	VB10	34.1	-30.2	32.63	54	-21.37	-	-	345	322	H
3	* 9.193	38.28	PK3	36.4	-25.6	49.08	-	-	74	-24.92	360	239	H
	* 9.193	18.28	VB10	36.4	-25.6	29.08	54	-24.92	-	-	360	239	H
5	* 4.959	50.74	PK3	34.1	-30.2	54.64	-	-	74	-19.36	240	291	V
	* 4.96	30.74	VB10	34.1	-30.2	34.64	54	-19.36	-	-	240	291	V
6	* 7.456	32.45	PK	35.6	-28.5	39.55	-	-	74	-34.45	256	105	V
	7.457	23.46	VB10	35.6	-28.5	30.56	54	-23.44			256	105	V
4	3.306	45.23	PK3	32.7	-31.4	46.53	-	-	-	-	281	171	V
1	3.307	44.47	PK3	32.7	-31.4	45.77	-	-	-	-	171	173	H

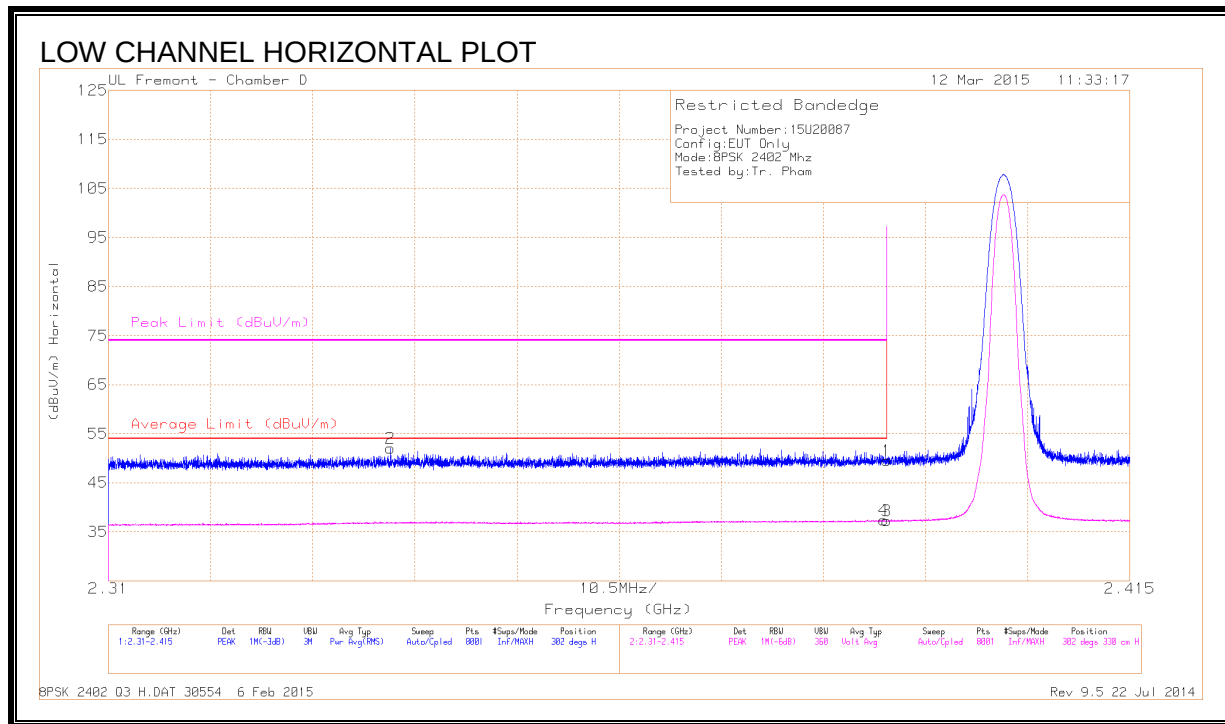
* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

8.2.2. ENHANCED DATA RATE 8PSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



DATA

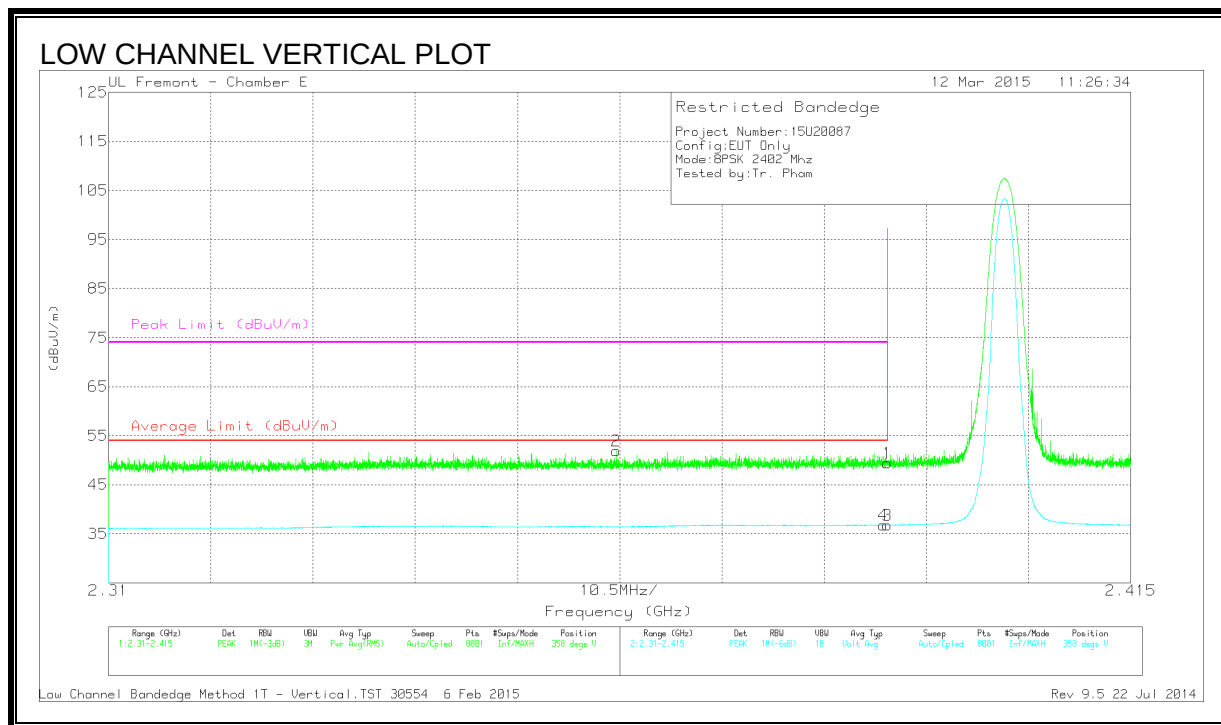
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT346 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.339	44.6	PK	32	-24.6	0	52	-	-	74	-22	302	330	H
1	* 2.39	42.13	PK	32.1	-24.7	0	49.53	-	-	74	-24.47	302	330	H
3	* 2.39	29.81	VB1T	32.1	-24.7	0	37.21	54	-16.79	-	-	302	330	H
4	* 2.39	29.98	VB1T	32.1	-24.7	0	37.38	54	-16.62	-	-	302	330	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

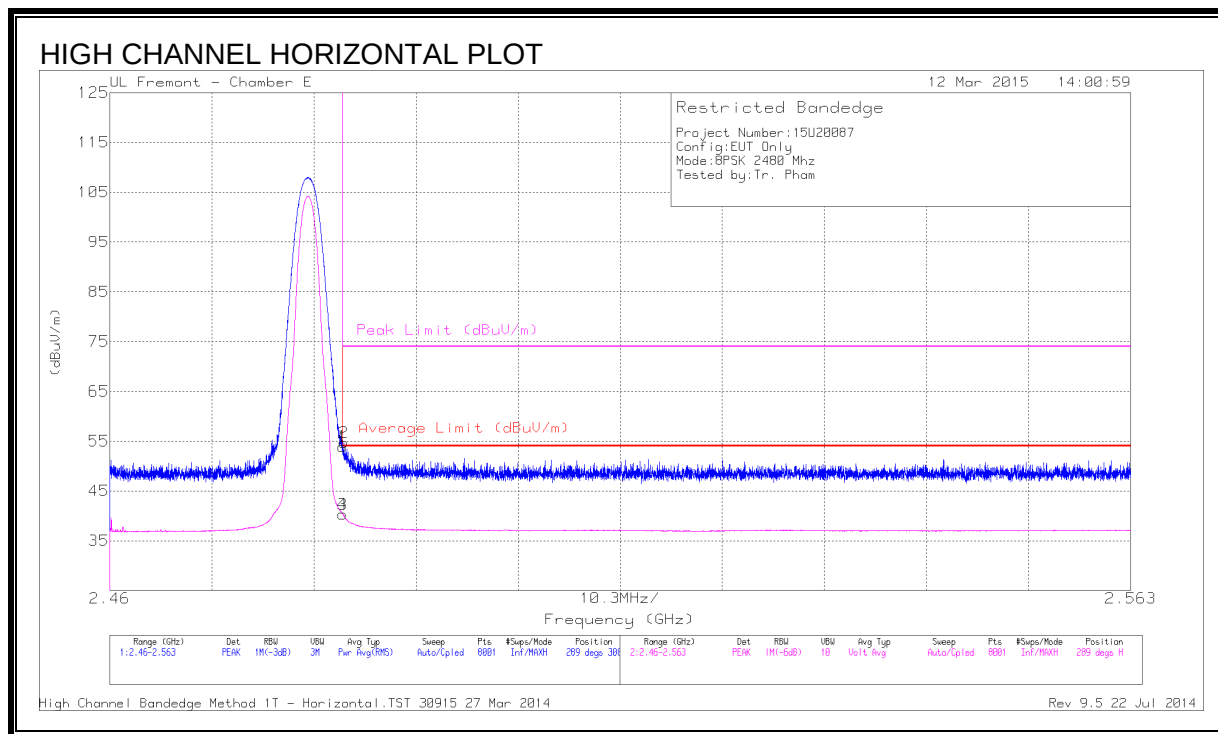
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.99	PK	32.1	-24.7	49.39	-	-	74	-24.61	358	324	V
2	* 2.362	44.66	PK	32	-24.7	51.96	-	-	74	-22.04	358	324	V
3	* 2.39	29.37	VB1T	32.1	-24.7	36.77	54	-17.23	-	-	358	324	V
4	* 2.39	29.41	VB1T	32.1	-24.7	36.81	54	-17.19	-	-	358	324	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

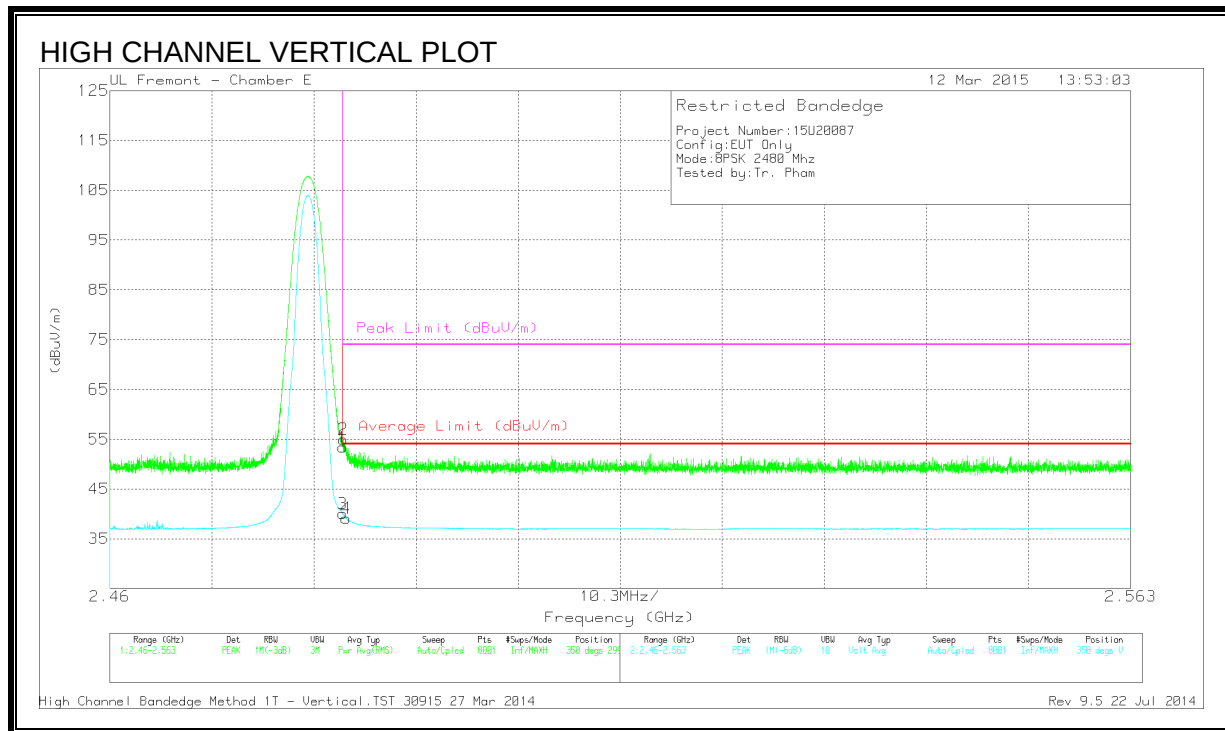
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT346 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46	PK	32.2	-24.3	53.9	-	-	74	-20.1	289	308	H
2	* 2.484	46.79	PK	32.2	-24.3	54.69	-	-	74	-19.31	289	308	H
3	* 2.484	32.42	VB1T	32.2	-24.3	40.32	54	-13.68	-	-	289	308	H
4	* 2.484	32.42	VB1T	32.2	-24.3	40.32	54	-13.68	-	-	289	308	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

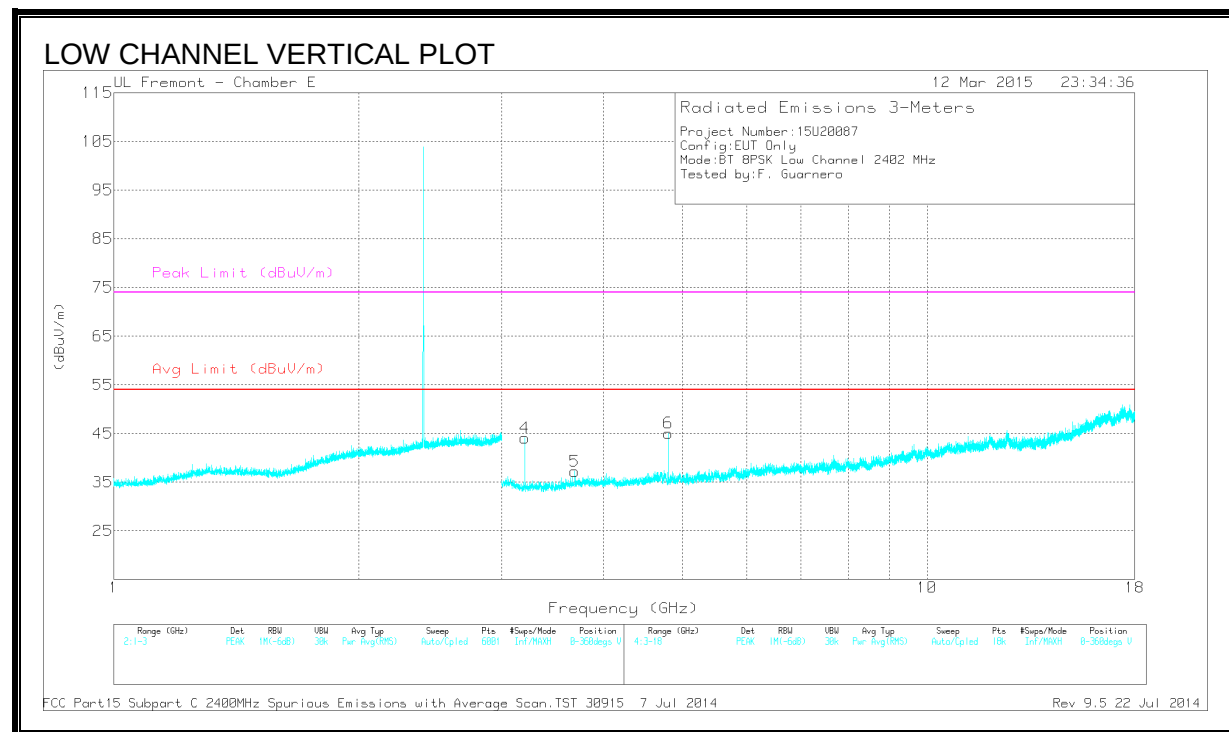
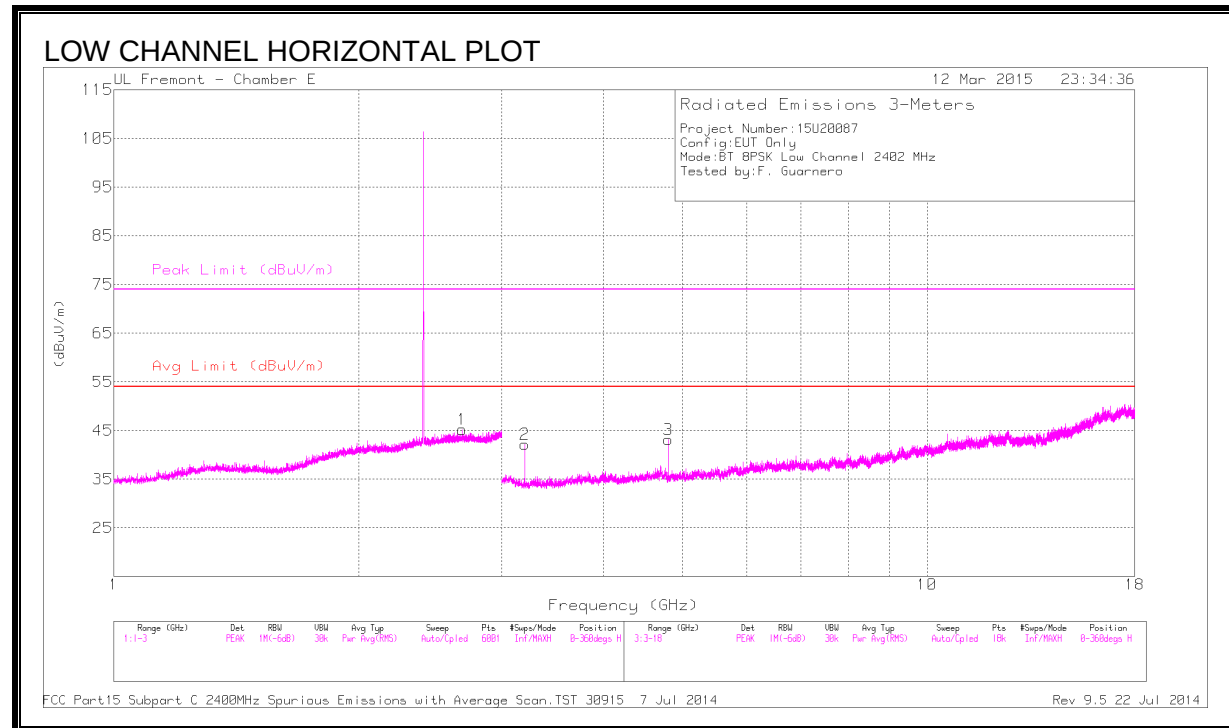
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT346 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.48	PK	32.2	-24.3	53.38	-	-	74	-20.62	350	299	V
2	* 2.484	47.09	PK	32.2	-24.3	54.99	-	-	74	-19.01	350	299	V
3	* 2.484	32.14	VB1T	32.2	-24.3	40.04	54	-13.96	-	-	350	299	V
4	* 2.484	31.21	VB1T	32.2	-24.3	39.11	54	-14.89	-	-	350	299	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

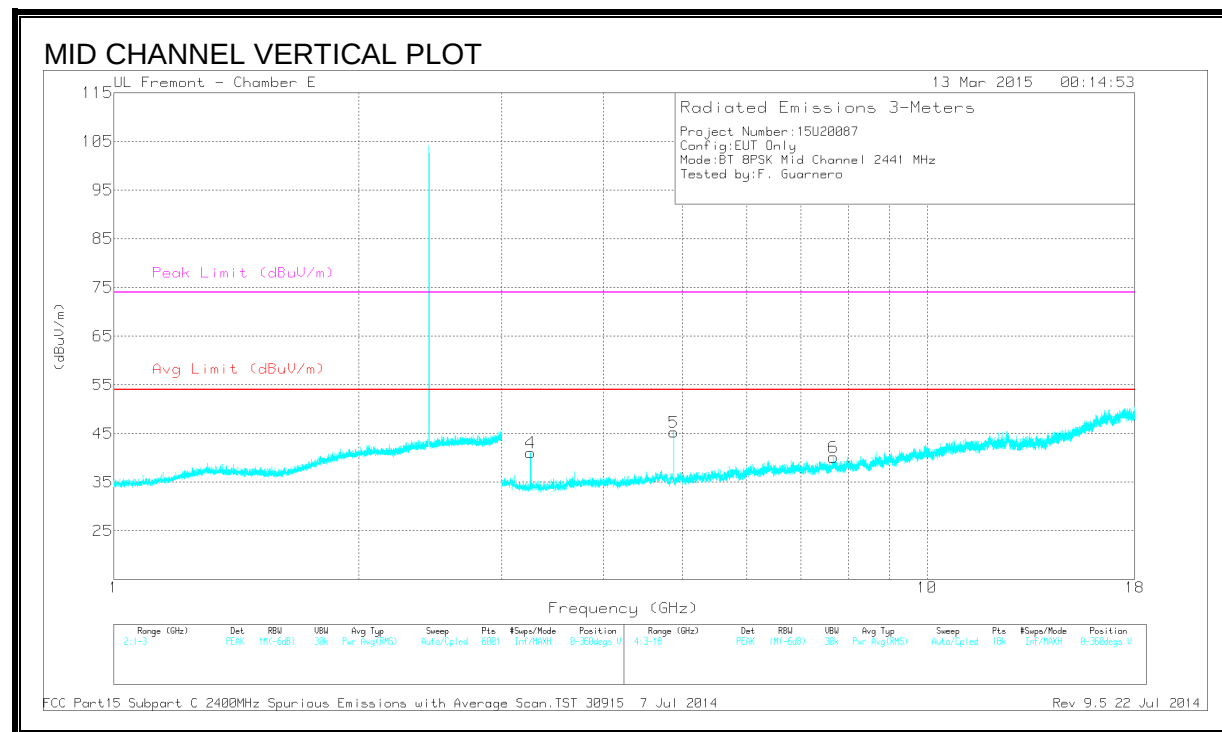
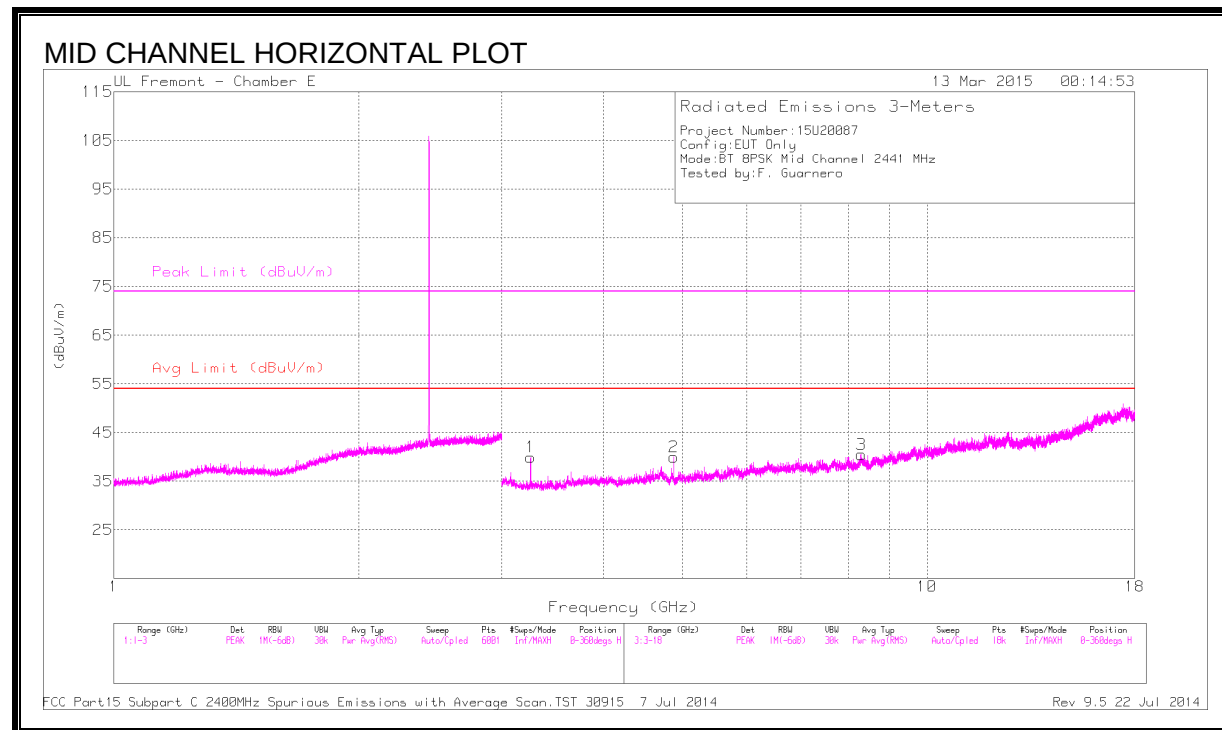
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.682	44.04	PK3	32.4	-23.9	52.54	-	-	74	-21.46	287	171	H
	* 2.683	30.33	VB10	32.4	-23.9	38.83	54	-15.17	-	-	287	171	H
3	* 4.804	47.29	PK3	34.1	-30.9	50.49	-	-	74	-23.51	353	302	H
	* 4.804	27.29	VB10	34.1	-30.9	30.49	54	-23.51	-	-	353	302	H
5	* 3.692	41.27	PK3	33.2	-30.7	43.77	-	-	74	-30.23	5	209	V
	* 3.688	28.23	VB10	33.2	-30.8	30.63	54	-23.37	-	-	5	209	V
6	* 4.804	48.7	PK3	34.1	-30.9	51.9	-	-	74	-22.1	268	280	V
	* 4.804	28.7	VB10	34.1	-30.9	31.9	54	-22.1	-	-	268	280	V
2	3.203	47.74	PK3	32.7	-31.9	48.54	-	-	-	-	168	150	H
4	3.203	49.03	PK3	32.7	-31.9	49.83	-	-	-	-	282	155	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

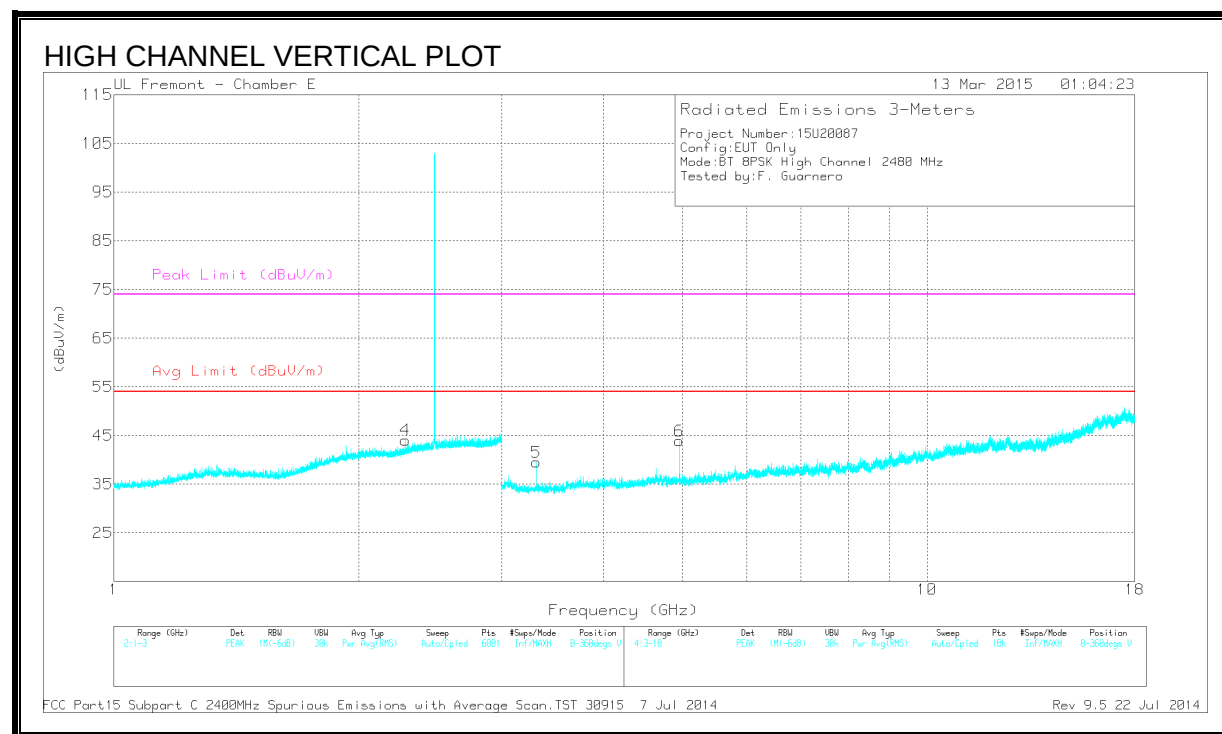
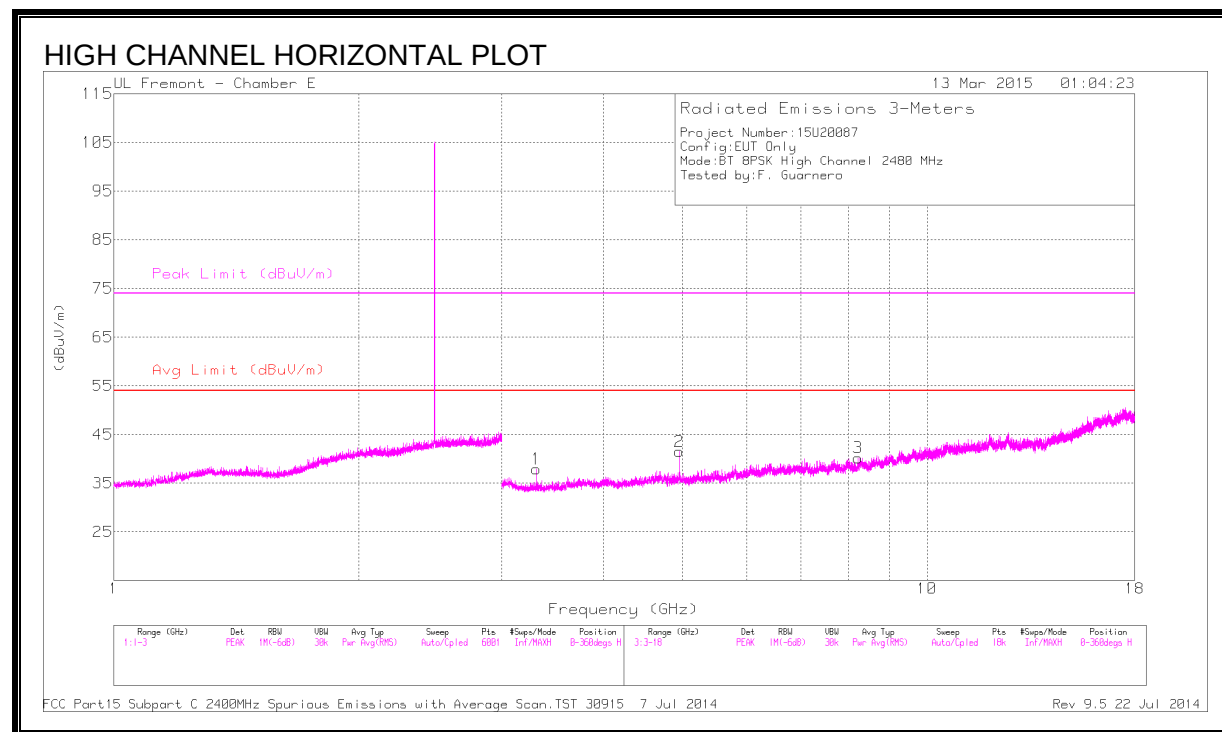
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.882	45.18	PK3	34.1	-30.9	48.38	-	-	74	-25.62	0	363	H
	* 4.882	25.18	VB10	34.1	-30.9	28.38	54	-25.62	-	-	0	363	H
3	* 8.302	37.78	PK3	35.7	-26.2	47.28	-	-	74	-26.72	272	383	H
	* 8.302	25.3	VB10	35.7	-26.2	34.8	54	-19.2	-	-	272	383	H
5	* 4.882	48.12	PK3	34.1	-30.9	51.32	-	-	74	-22.68	258	223	V
	* 4.882	28.12	VB10	34.1	-30.9	31.32	54	-22.68	-	-	258	223	V
6	* 7.672	38.03	PK3	35.8	-26.6	47.23	-	-	74	-26.77	46	334	V
	* 7.671	25.17	VB10	35.8	-26.6	34.37	54	-19.63	-	-	46	334	V
1	3.255	47.24	PK3	32.7	-32.1	47.84	-	-	-	-	171	177	H
4	3.255	47.59	PK3	32.7	-32.1	48.19	-	-	-	-	275	150	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 T346 (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
4	* 2.285	44.03	PK3	31.8	-25.1	50.73	-	-	74	-23.27	116	108	V
	* 2.285	30.81	VB10	31.8	-25.1	37.51	54	-16.49	-	-	116	108	V
2	* 4.96	45.31	PK3	34.1	-30.2	49.21	-	-	74	-24.79	199	324	H
	* 4.96	25.31	VB10	34.1	-30.2	29.21	54	-24.79	-	-	199	324	H
3	* 8.226	38.58	PK3	35.7	-27.1	47.18	-	-	74	-26.82	209	179	H
	* 8.225	25.72	VB10	35.7	-27.1	34.32	54	-19.68	-	-	209	179	H
6	* 4.96	45.91	PK3	34.1	-30.2	49.81	-	-	74	-24.19	249	239	V
	* 4.96	25.91	VB10	34.1	-30.2	29.81	54	-24.19	-	-	249	239	V
5	3.306	45.28	PK3	32.7	-31.4	46.58	-	-	-	-	274	173	V
1	3.307	43.82	PK3	32.7	-31.4	45.12	-	-	-	-	175	203	H

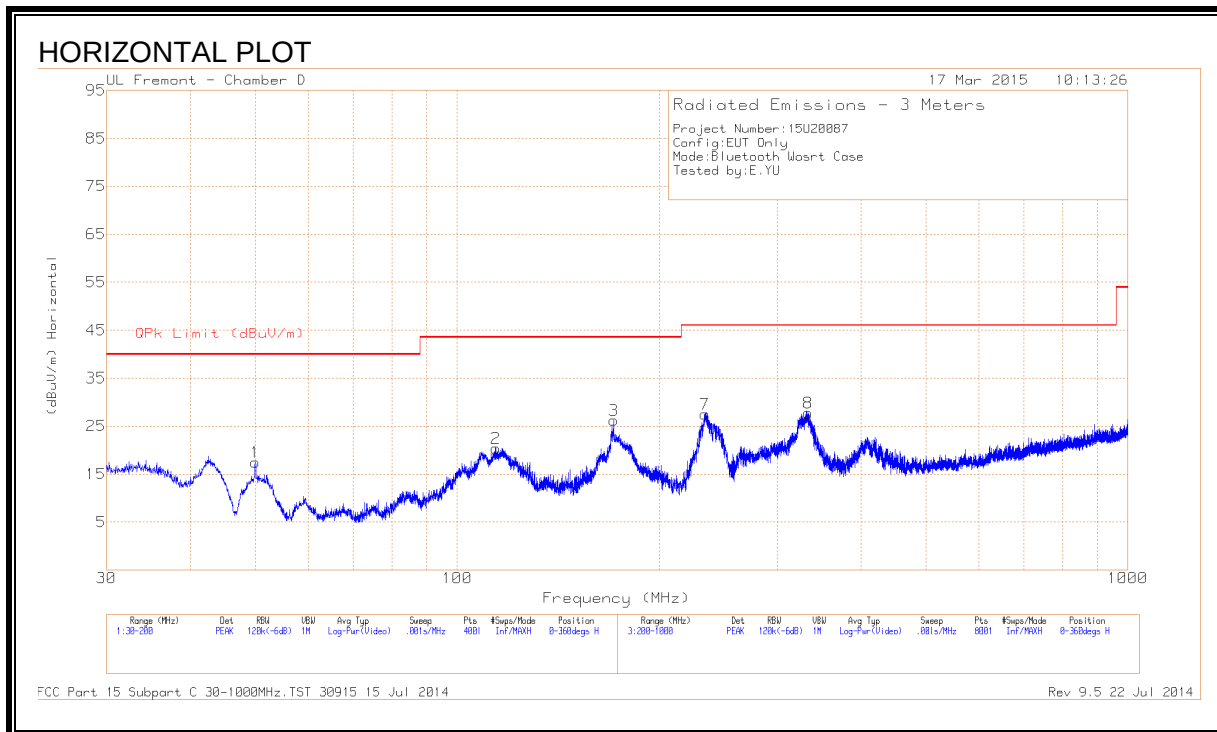
* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK3 - FHSS Method: Maximum Peak

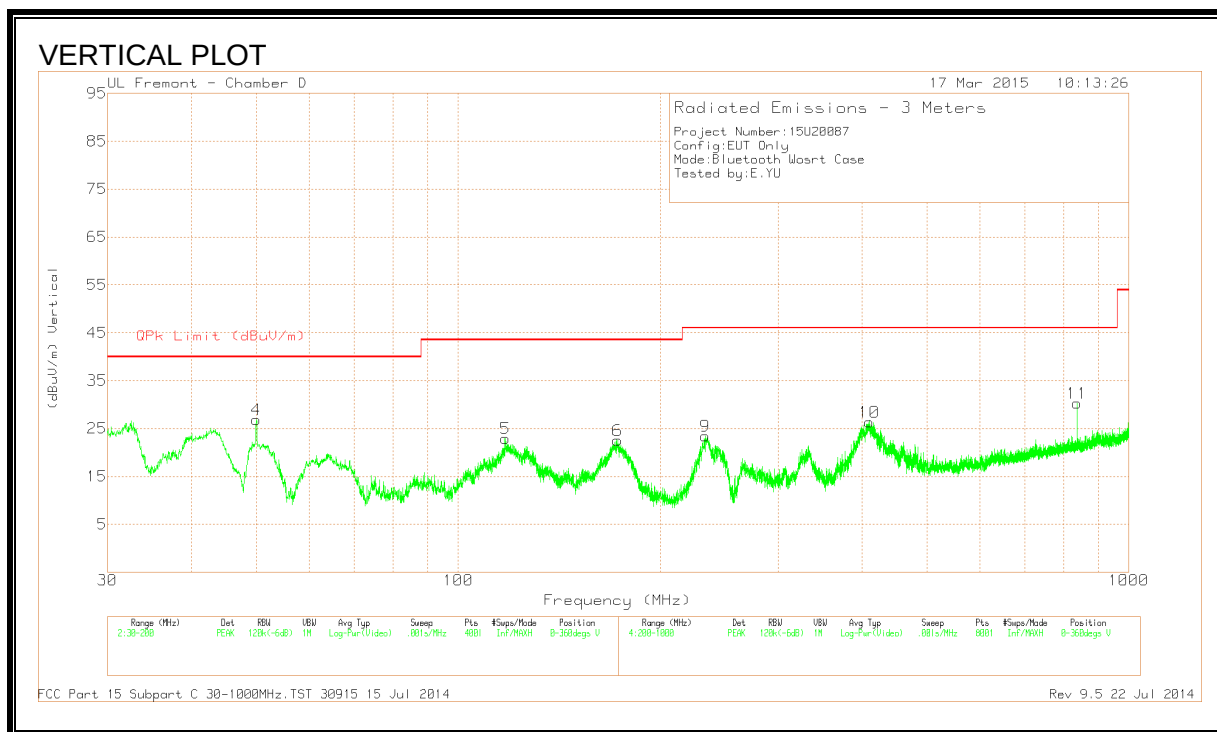
VB10Hz - FHSS Method: 10Hz Video Bandwidth

8.3. WORST-CASE BELOW 1 GHz

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



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



DATA

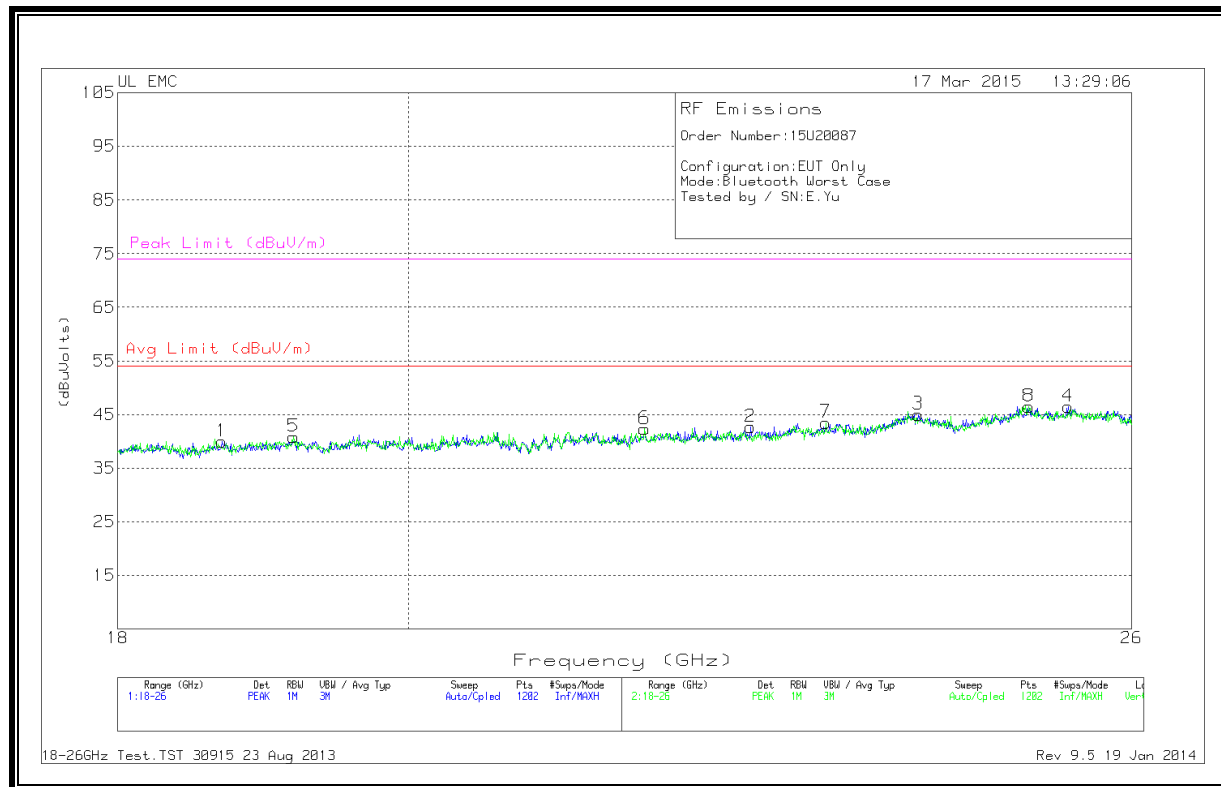
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T407 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 114.2775	38.53	PK	13.2	-31.3	20.43	43.52	-23.09	0-360	301	H
3	* 171.1	45.75	PK	11.5	-31	26.25	43.52	-17.27	0-360	98	H
5	* 117.635	40.58	PK	13.6	-31.2	22.98	43.52	-20.54	0-360	100	V
6	* 172.8	42.06	PK	11.5	-31	22.56	43.52	-20.96	0-360	100	V
8	* 333.9	43.9	PK	14	-30.2	27.7	46.02	-18.32	0-360	100	H
1	50.0175	41.07	PK	8.1	-31.7	17.47	40	-22.53	0-360	401	H
4	50.0175	50.46	PK	8.1	-31.7	26.86	40	-13.14	0-360	100	V
9	233.7	42.87	PK	11.2	-30.6	23.47	46.02	-22.55	0-360	201	V
7	234.2	46.75	PK	11.3	-30.6	27.45	46.02	-18.57	0-360	100	H
10	410.4	40.9	PK	15.4	-29.9	26.4	46.02	-19.62	0-360	100	V
11	836.6	37.84	PK	21.3	-28.8	30.34	46.02	-15.68	0-360	301	V

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

PK - Peak detector

8.4. WORST-CASE ABOVE 18 GHz

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	18.693	41.2	PK	32.7	-24.4	-9.5	40	54	-14	74	-34
2	22.643	42.17	PK	33.8	-23.8	-9.5	42.67	54	-11.33	74	-31.38
3	24.062	42.9	PK	34.2	-22.6	-9.5	45	54	-9	74	-29
4	25.407	44.2	PK	34.6	-22.8	-9.5	46.5	54	-7.5	74	-27.5
5	19.186	40.93	PK	32.9	-23.5	-9.5	40.83	54	-13.17	74	-33.17
6	21.79	41.33	PK	33.7	-23.2	-9.5	42.33	54	-11.67	74	-31.67
7	23.269	42.2	PK	33.8	-23	-9.5	43.5	54	-10.5	74	-30.5
8	25.047	44.1	PK	34.5	-22.6	-9.5	46.5	54	-7.5	74	-27.5

PK - Peak detector

9. 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.

RESULTS

6 WORST EMISSIONS

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	49.39	Pk	1.3	0	50.69	-	-	55.75	-5.06
2	.1545	27.24	Av	1.3	0	28.54	65.75	-37.21	55.75	-27.21
3	.8205	24.62	Pk	.3	0	24.92	-	-	46	-21.08
4	.8115	14.79	Av	.3	0	15.09	56	-40.91	46	-30.91
5	4.8525	31.5	Pk	.2	.1	31.8	-	-	46	-14.2
6	4.857	12.67	Av	.2	.1	12.97	56	-43.03	46	-33.03
7	12.129	39.94	Pk	.2	.2	40.34	-	-	50	-9.66
8	11.9445	24.88	Av	.2	.2	25.28	60	-34.72	50	-24.72
9	24.1125	38.96	Pk	.3	.2	39.46	-	-	50	-10.54
10	24	32.64	Av	.3	.2	33.14	60	-26.86	50	-16.86

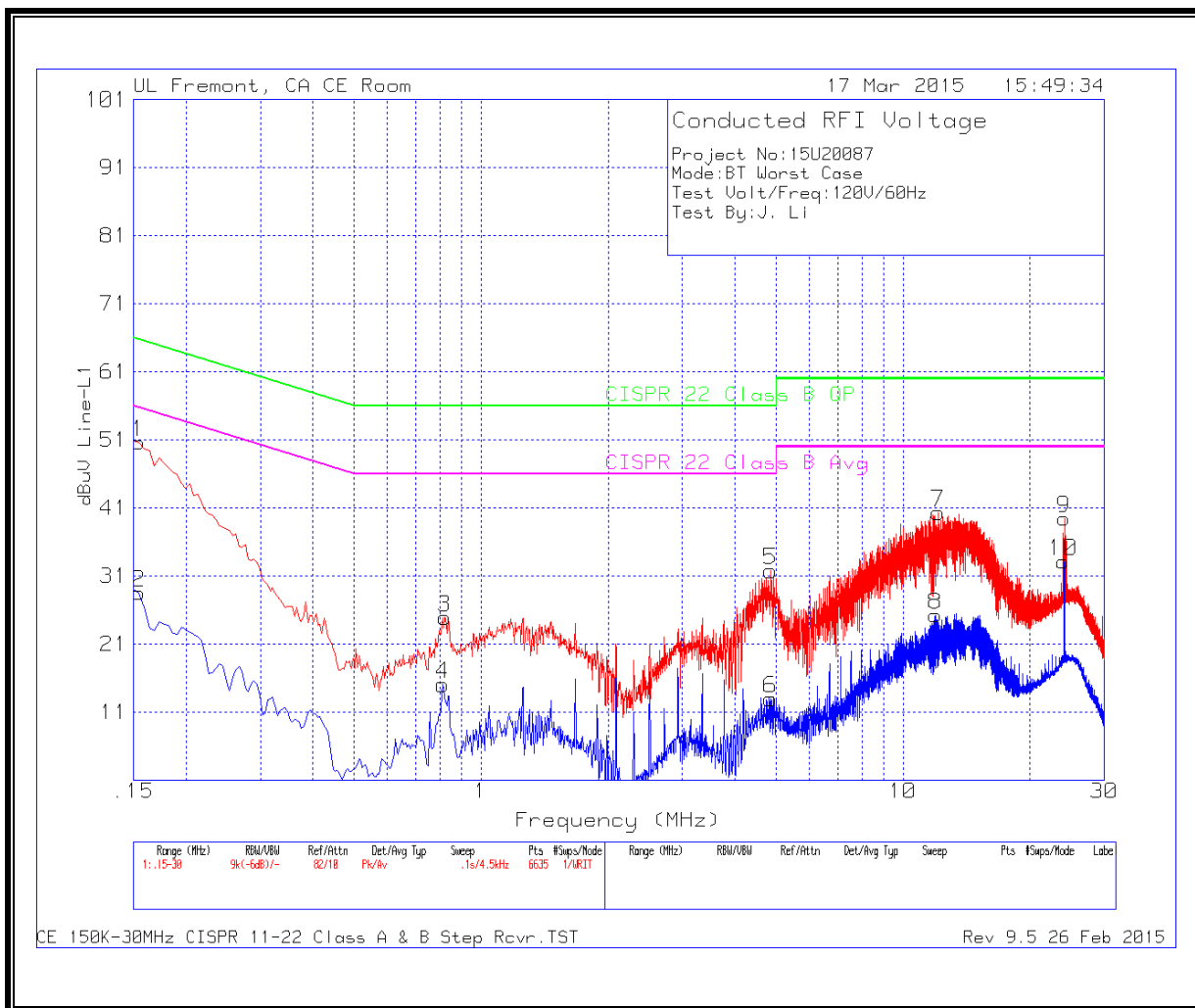
Pk - Peak detector
Av - Average detection

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	.159	48.09	Pk	1.4	0	49.49	-	-	55.52	-6.03
12	.1545	23.86	Av	1.4	0	25.26	65.75	-40.49	55.75	-30.49
13	.8205	25.02	Pk	.3	0	25.32	-	-	46	-20.68
14	.8115	15.29	Av	.3	0	15.59	56	-40.41	46	-30.41
15	4.9245	31.93	Pk	.2	.1	32.23	-	-	46	-13.77
16	4.9245	15.79	Av	.2	.1	16.09	56	-39.91	46	-29.91
17	12.7185	39.24	Pk	.2	.2	39.64	-	-	50	-10.36
18	12.7185	24.93	Av	.2	.2	25.33	60	-34.67	50	-24.67
19	24.5625	37.44	Pk	.3	.3	38.04	-	-	50	-11.96
20	24.5625	18.5	Av	.3	.3	19.1	60	-40.9	50	-30.9

Pk - Peak detector
Av - Average detection
CE 150K-30MHz CISPR 11-22 Class A & B Step Rcvr.TST
Rev 9.5 26 Feb 2015

LINE 1 RESULTS



LINE 2 RESULTS

