

DATA

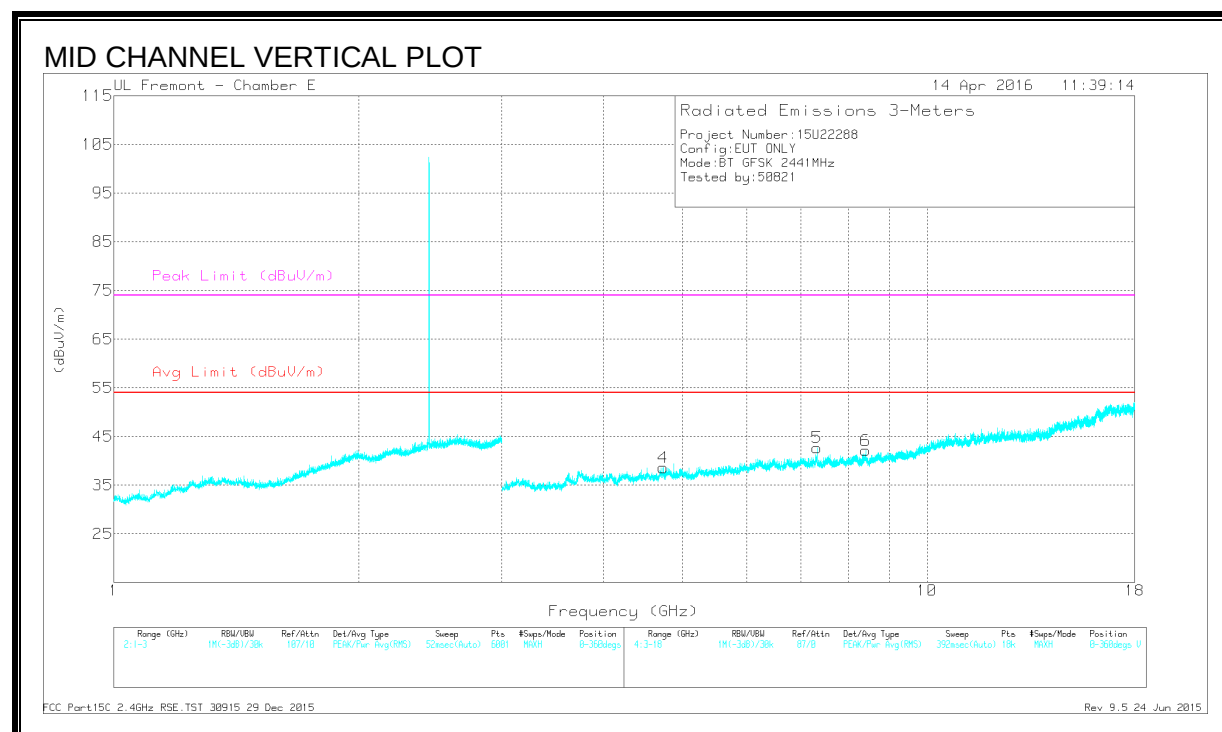
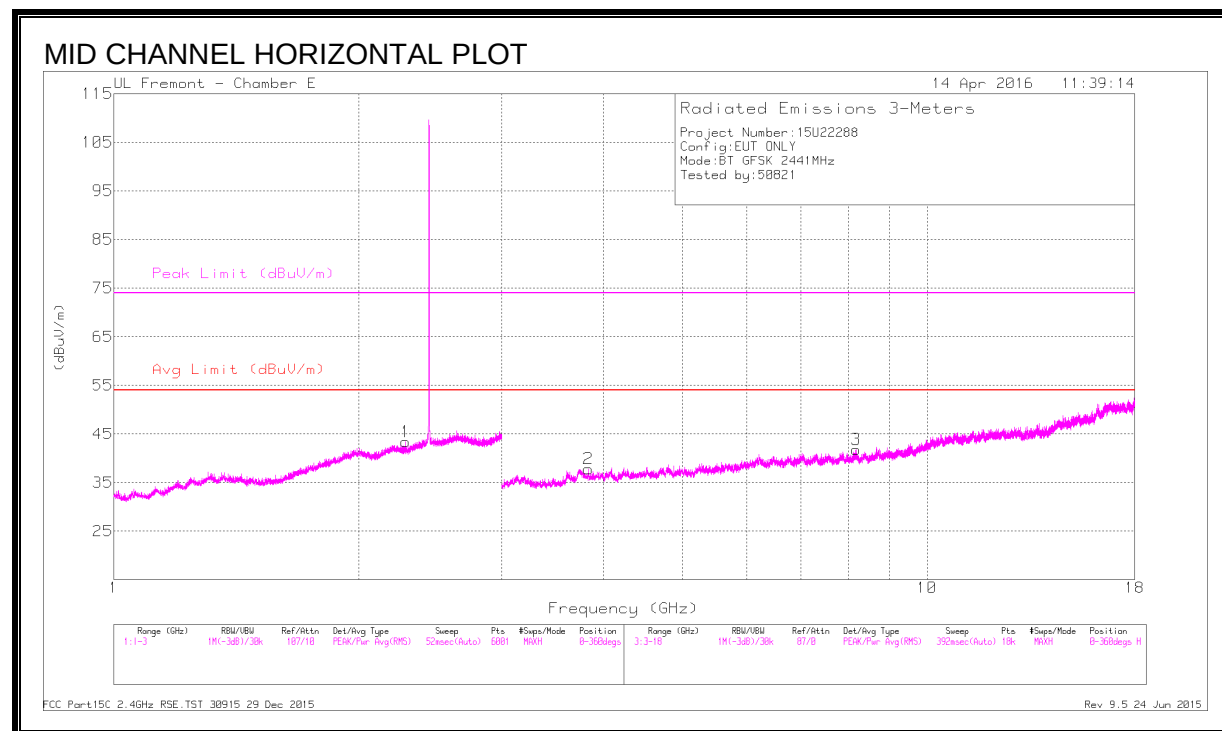
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.692	38.15	PK2	32.6	-19.7	51.05	-	-	74	-22.95	354	325	H
	* 2.691	24.89	VA1T	32.6	-19.7	37.79	54	-16.21	-	-	354	325	H
3	* 4.804	44.94	PK2	34	-29.8	49.14	-	-	74	-24.86	353	316	V
	* 4.804	36.66	VA1T	34	-29.8	40.86	54	-13.14	-	-	353	316	V
5	* 7.504	39.36	PK2	35.5	-26.9	47.96	-	-	74	-26.04	174	178	V
	* 7.505	26.14	VA1T	35.5	-26.9	34.74	54	-19.26	-	-	174	178	V
6	* 12.011	39.23	PK2	38.9	-23.4	54.73	-	-	74	-19.27	309	233	V
	* 12.01	27.82	VA1T	38.9	-23.4	43.32	54	-10.68	-	-	309	233	V
1	2.439	39.91	PK2	32.2	-19.9	52.21	-	-	-	-	308	122	H
	2.439	29.11	VA1T	32.2	-19.9	41.41	-	-	-	-	308	122	H
4	7.206	42.35	PK2	35.6	-27.6	50.35	-	-	-	-	344	280	V
	7.206	32.62	VA1T	35.6	-27.6	40.62	-	-	-	-	344	280	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

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

HARMONICS AND SPURIOUS EMISSIONS



DATA

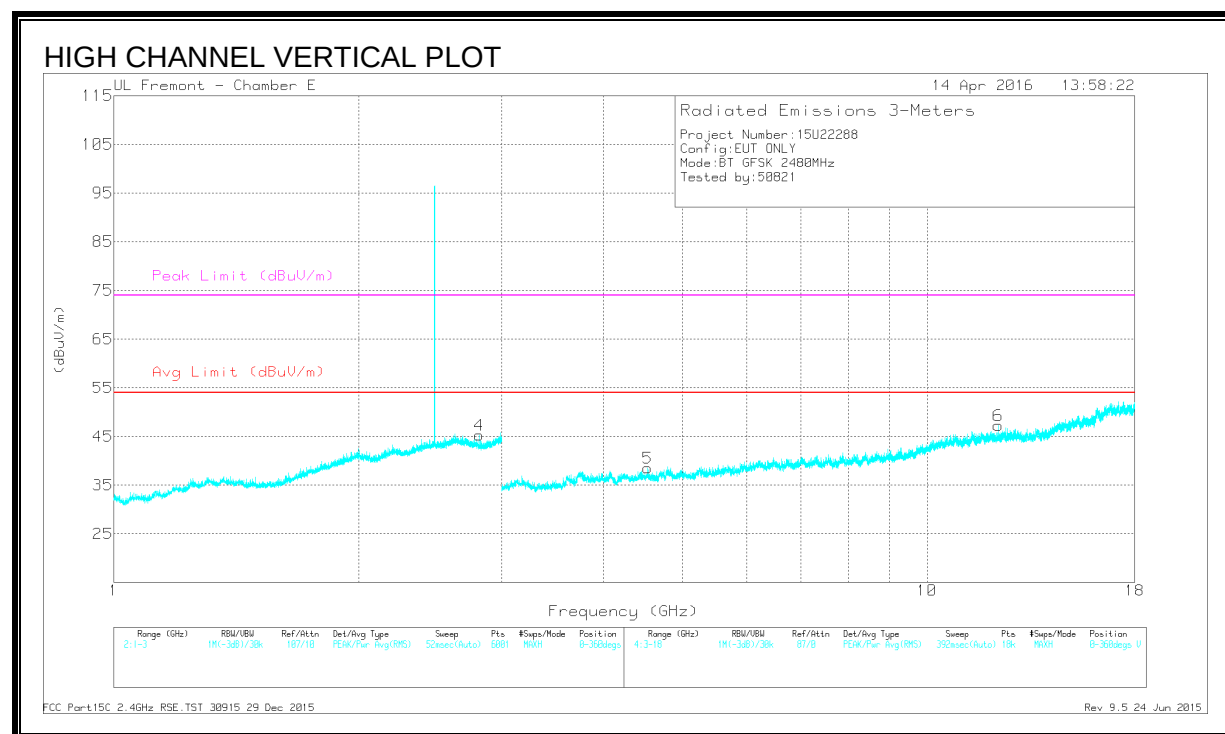
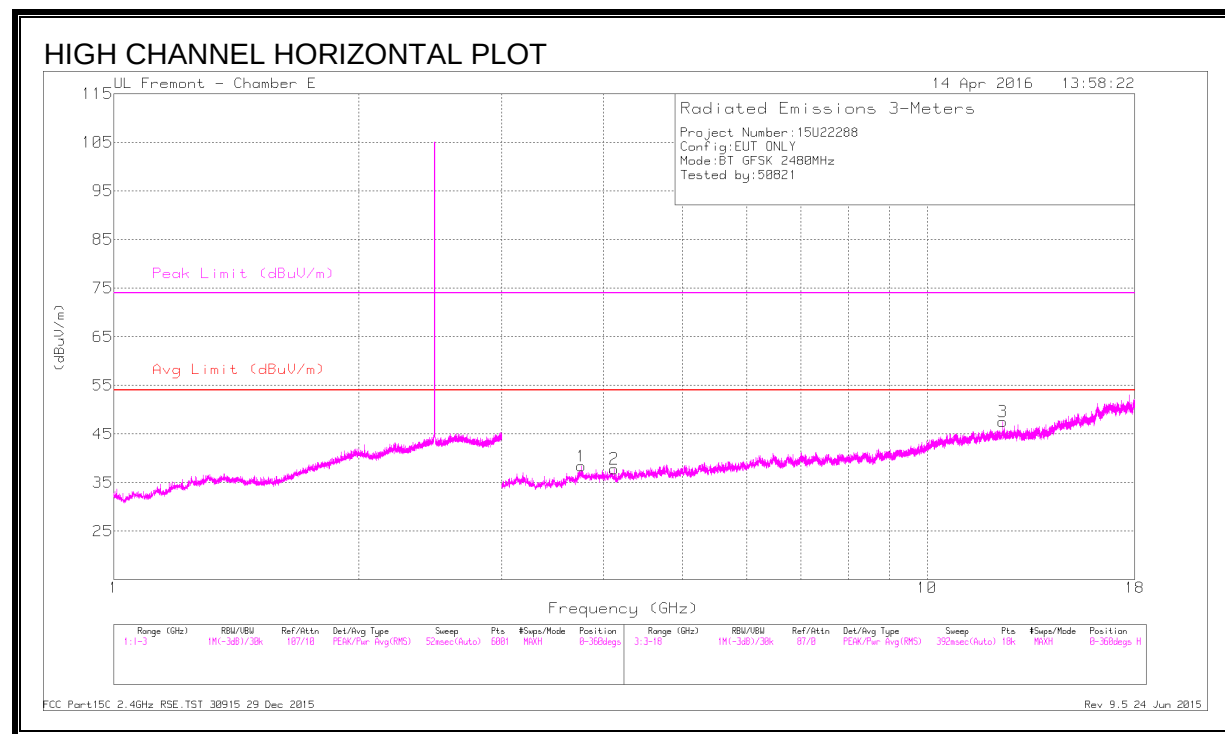
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.285	37.64	PK2	31.5	-20.1	49.04	-	-	74	-24.96	176	341	H
	* 2.286	24.31	VA1T	31.5	-20.1	35.71	54	-18.29	-	-	176	341	H
2	* 3.834	42.78	PK2	33.2	-31.2	44.78	-	-	74	-29.22	249	137	H
	* 3.833	29.87	VA1T	33.2	-31.2	31.87	54	-22.13	-	-	249	137	H
3	* 8.18	38.05	PK2	35.8	-26.2	47.65	-	-	74	-26.35	347	133	H
	* 8.181	25.62	VA1T	35.8	-26.2	35.22	54	-18.78	-	-	347	133	H
4	* 4.739	41	PK2	34	-29	46	-	-	74	-28	237	397	V
	* 4.739	28.33	VA1T	34	-29	33.33	54	-20.67	-	-	237	397	V
5	* 7.322	39.34	PK2	35.6	-26.2	48.74	-	-	74	-25.26	159	280	V
	* 7.323	28.33	VA1T	35.6	-26.2	37.73	54	-16.27	-	-	159	280	V
6	* 8.402	37.82	PK2	35.7	-25.3	48.22	-	-	74	-25.78	326	382	V
	* 8.4	25.27	VA1T	35.7	-25.3	35.67	54	-18.33	-	-	326	382	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

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

HARMONICS AND SPURIOUS EMISSIONS



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (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	* 2.814	38.08	PK2	32.4	-20	50.48	-	-	74	-23.52	71	381	V
	* 2.814	24.81	VA1T	32.4	-20	37.21	54	-16.79	-	-	71	381	V
1	* 3.758	41.52	PK2	33.1	-30.1	44.52	-	-	74	-29.48	356	104	H
	* 3.76	28.35	VA1T	33.1	-30.1	31.35	54	-22.65	-	-	356	104	H
2	* 4.124	40.78	PK2	33.4	-30.8	43.38	-	-	74	-30.62	160	369	H
	* 4.124	28.52	VA1T	33.4	-30.8	31.12	54	-22.88	-	-	160	369	H
3	* 12.394	37.22	PK2	39	-23.5	52.72	-	-	74	-21.28	355	280	H
	* 12.392	24.34	VA1T	39	-23.5	39.84	54	-14.16	-	-	355	280	H
5	* 4.536	41.27	PK2	33.7	-29.8	45.17	-	-	74	-28.83	333	384	V
	* 4.537	28.55	VA1T	33.7	-29.8	32.45	54	-21.55	-	-	333	384	V
6	* 12.229	37.27	PK2	39	-23.6	52.67	-	-	74	-21.33	32	364	V
	* 12.23	24.13	VA1T	39	-23.5	39.63	54	-14.37	-	-	32	364	V

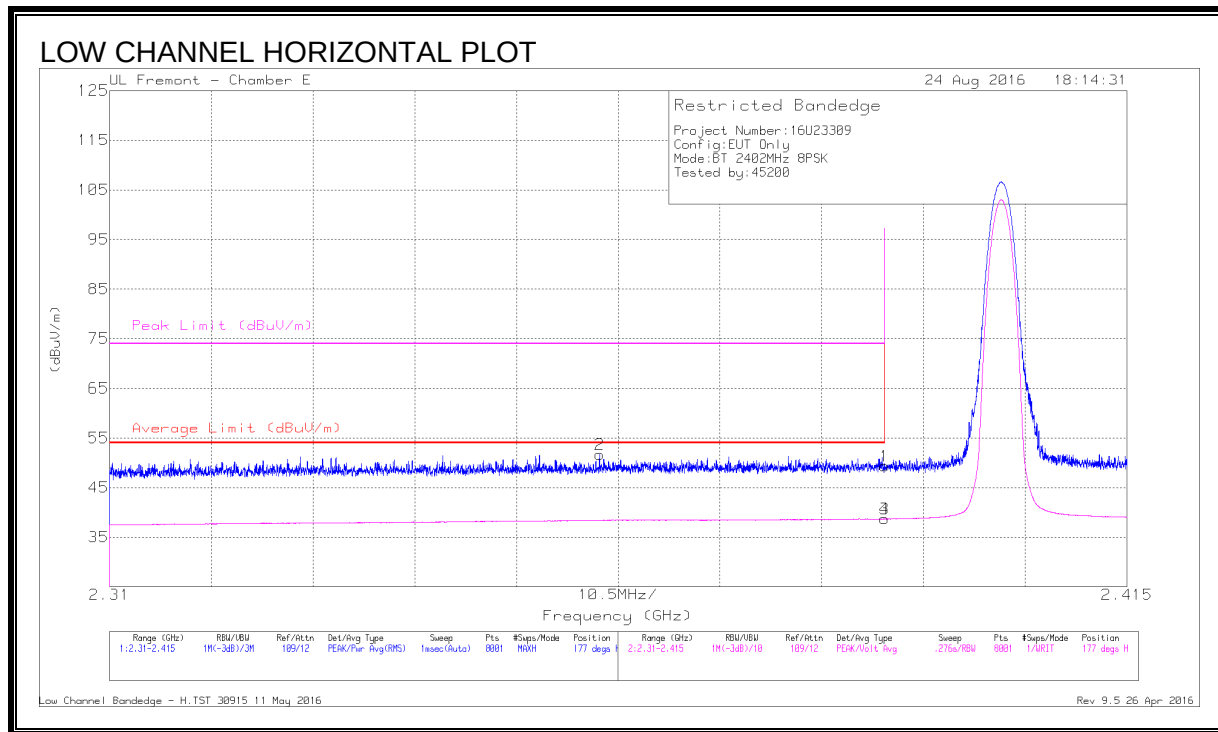
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

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

8.2.2. HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



DATA

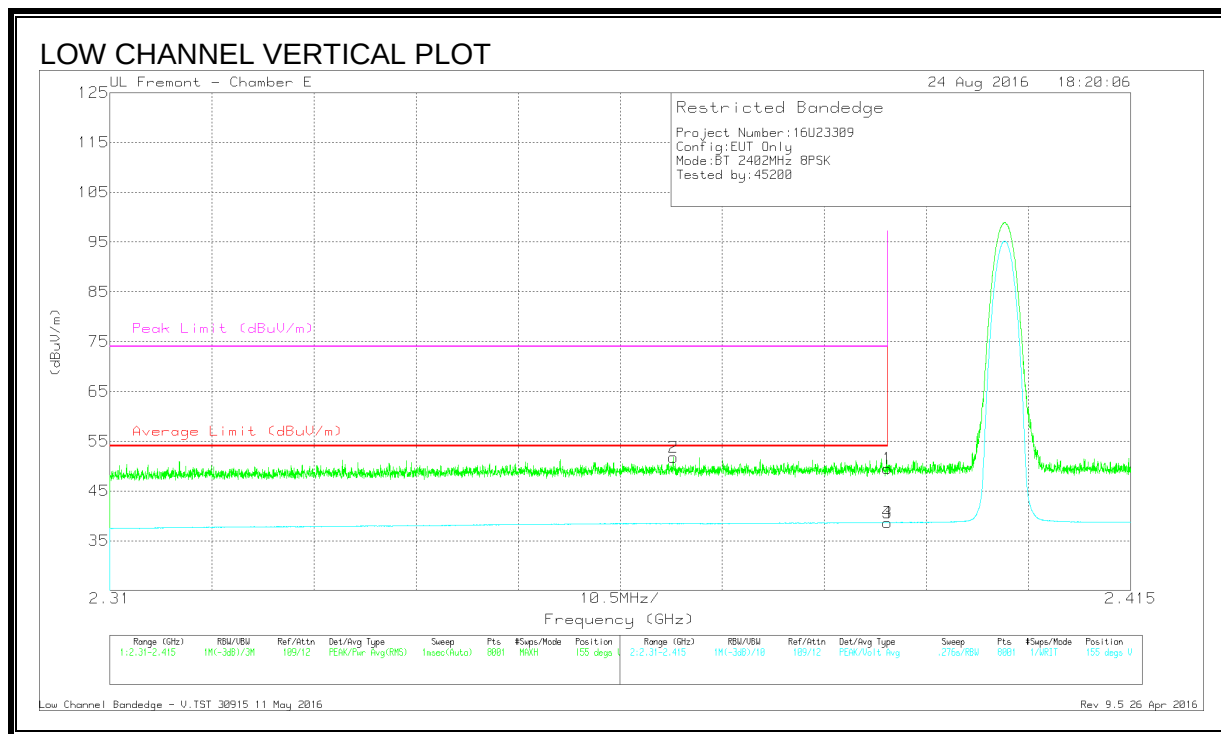
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.14	Pk	32.1	-19.9	49.34	-	-	74	-24.66	177	152	H
2	* 2.361	39.78	Pk	31.9	-20	51.68	-	-	74	-22.32	177	152	H
3	* 2.39	26.51	VA1T	32.1	-19.9	38.71	54	-15.29	-	-	177	152	H
4	* 2.39	26.5	VA1T	32.1	-19.9	38.7	54	-15.3	-	-	177	152	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

RESTRICTED BANDEGE (LOW CHANNEL, VERTICAL)



DATA

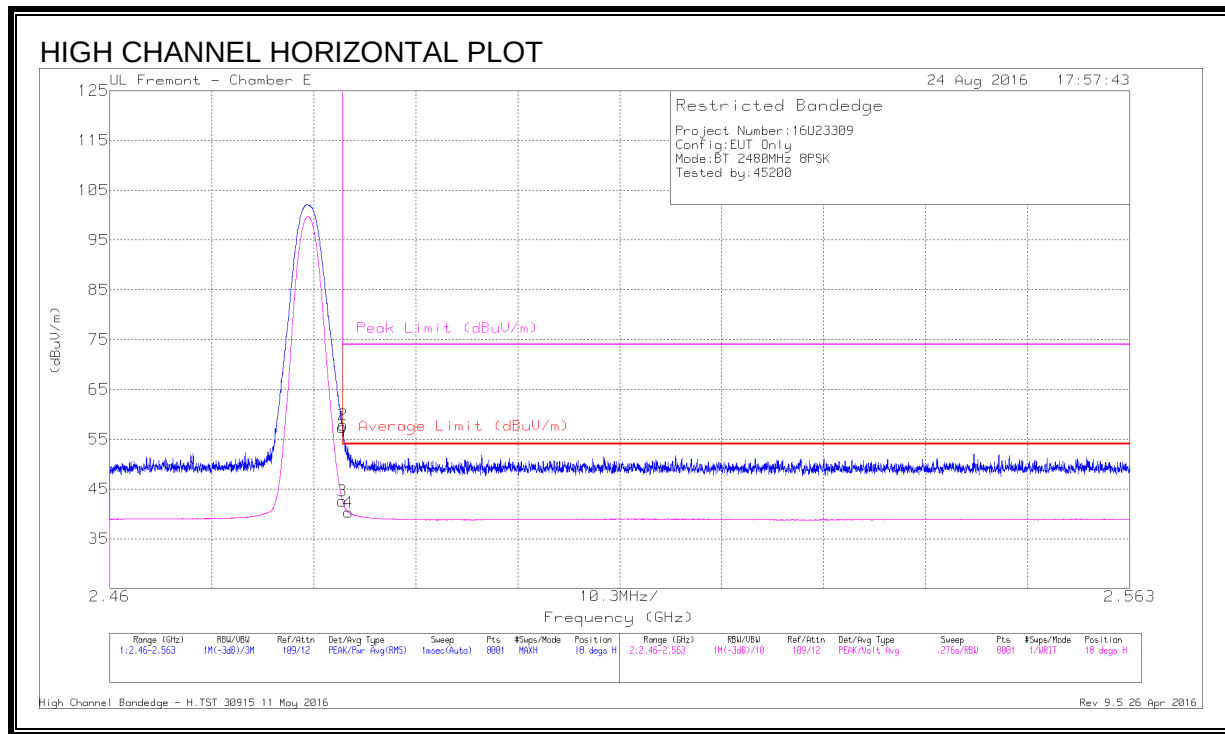
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.31	Pk	32.1	-19.9	49.51	-	-	74	-24.49	155	339	V
2	* 2.368	39.85	Pk	31.9	-20	51.75	-	-	74	-22.25	155	339	V
3	* 2.39	26.45	VA1T	32.1	-19.9	38.65	54	-15.35	-	-	155	339	V
4	* 2.39	26.46	VA1T	32.1	-19.9	38.66	54	-15.34	-	-	155	339	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

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



DATA

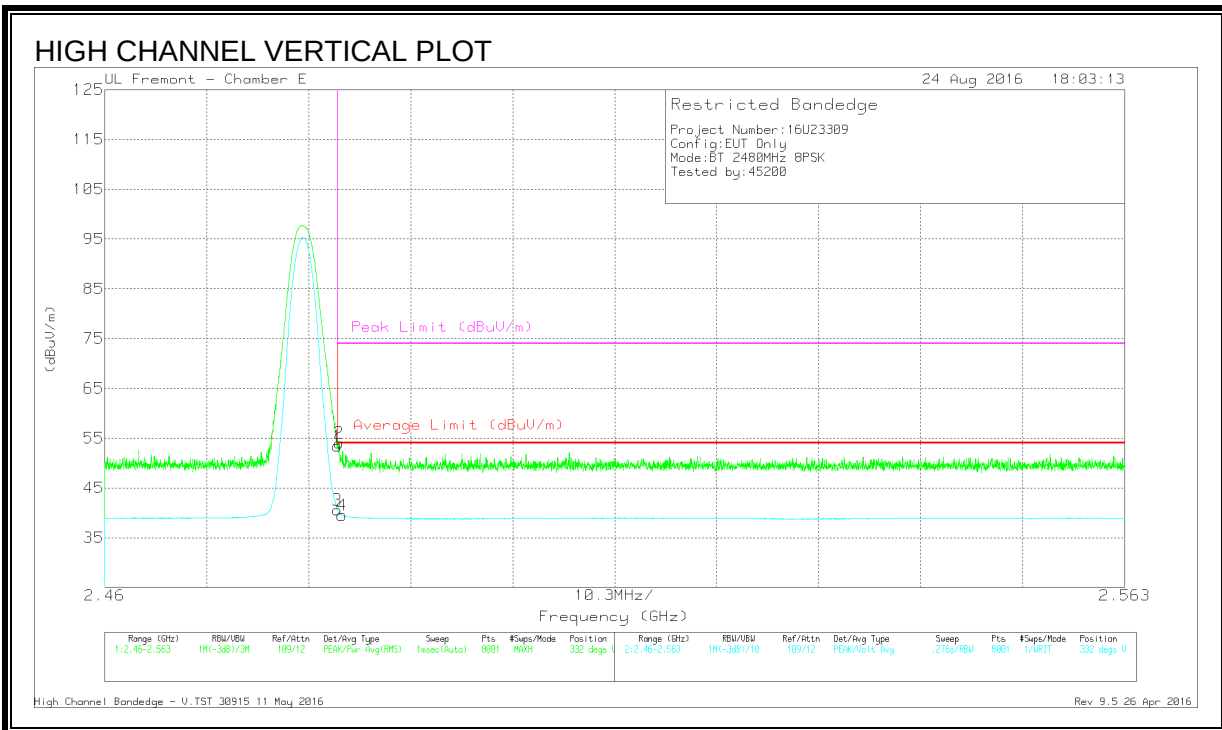
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1	* 2.484	45.07	Pk	32.3	-20	57.37	-	-	74	-16.63	18	105	H
2	* 2.484	45.55	Pk	32.3	-20	57.85	-	-	74	-16.15	18	105	H
3	* 2.484	30.29	VA1T	32.3	-20	42.59	54	-11.41	-	-	18	105	H
4	* 2.484	28.01	VA1T	32.3	-20	40.31	54	-13.69	-	-	18	105	H

* - 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

RESTRICTED BANDEGE (HIGH CHANNEL, VERTICAL)



DATA

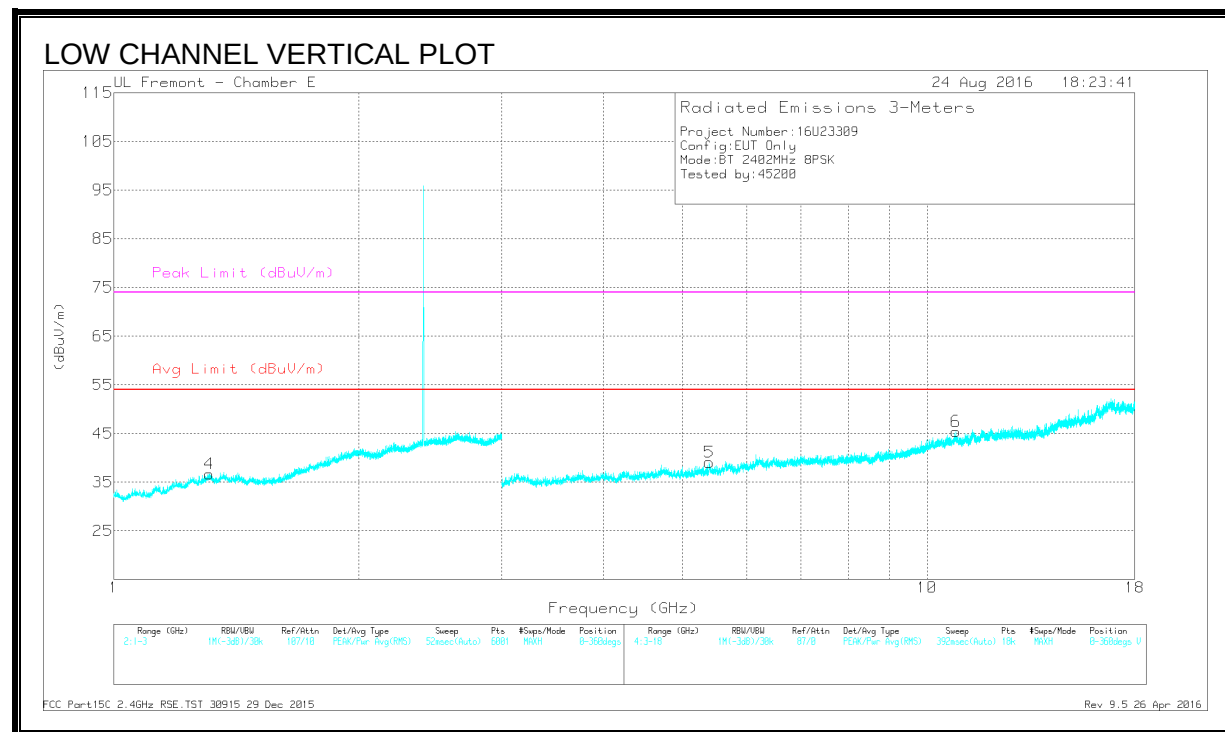
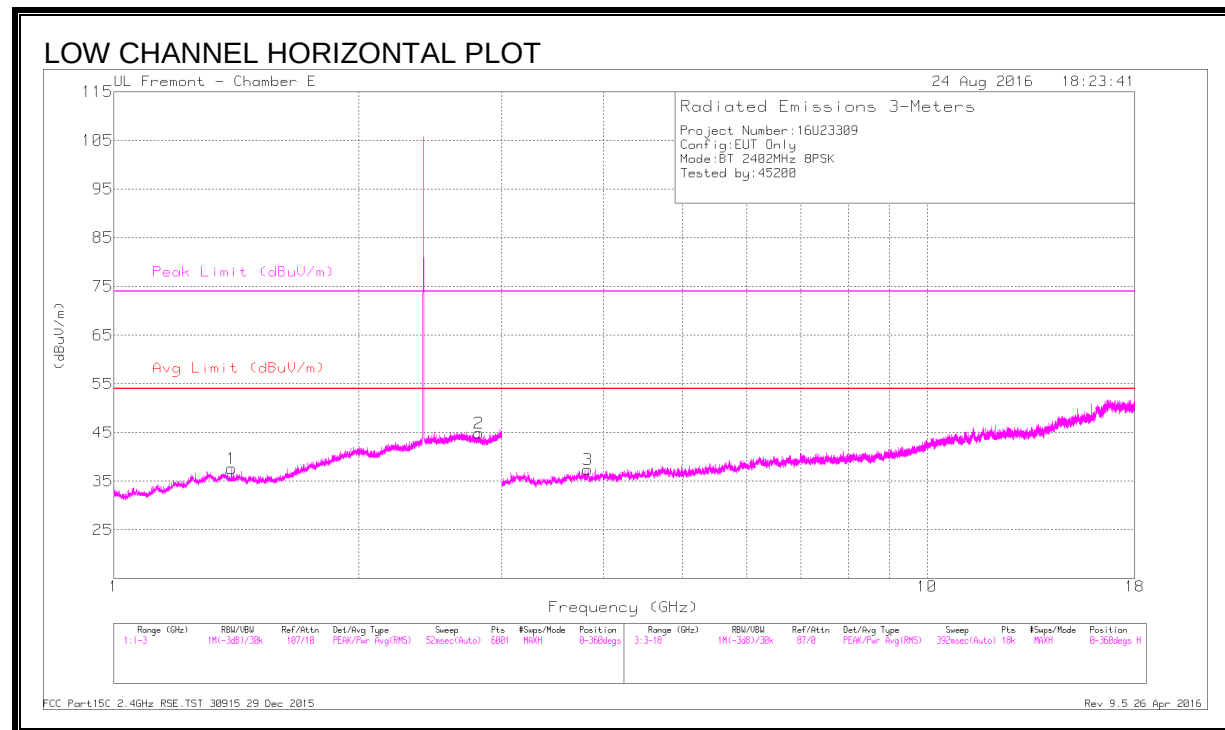
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT711 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.15	Pk	32.3	-20	53.45	-	-	74	-20.55	332	368	V
2	* 2.484	41.73	Pk	32.3	-20	54.03	-	-	74	-19.97	332	368	V
3	* 2.484	28.28	VA1T	32.3	-20	40.58	54	-13.42	-	-	332	368	V
4	* 2.484	27.22	VA1T	32.3	-20	39.52	54	-14.48	-	-	332	368	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

HARMONICS AND SPURIOUS EMISSIONS



DATA

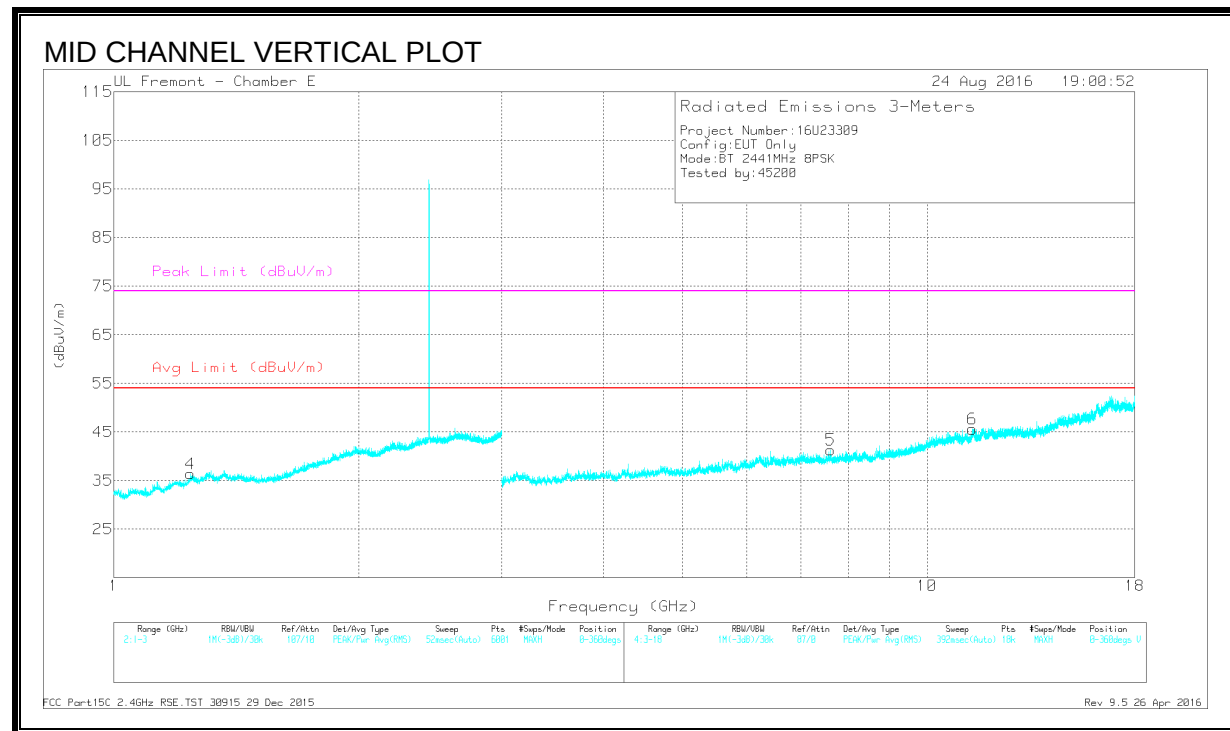
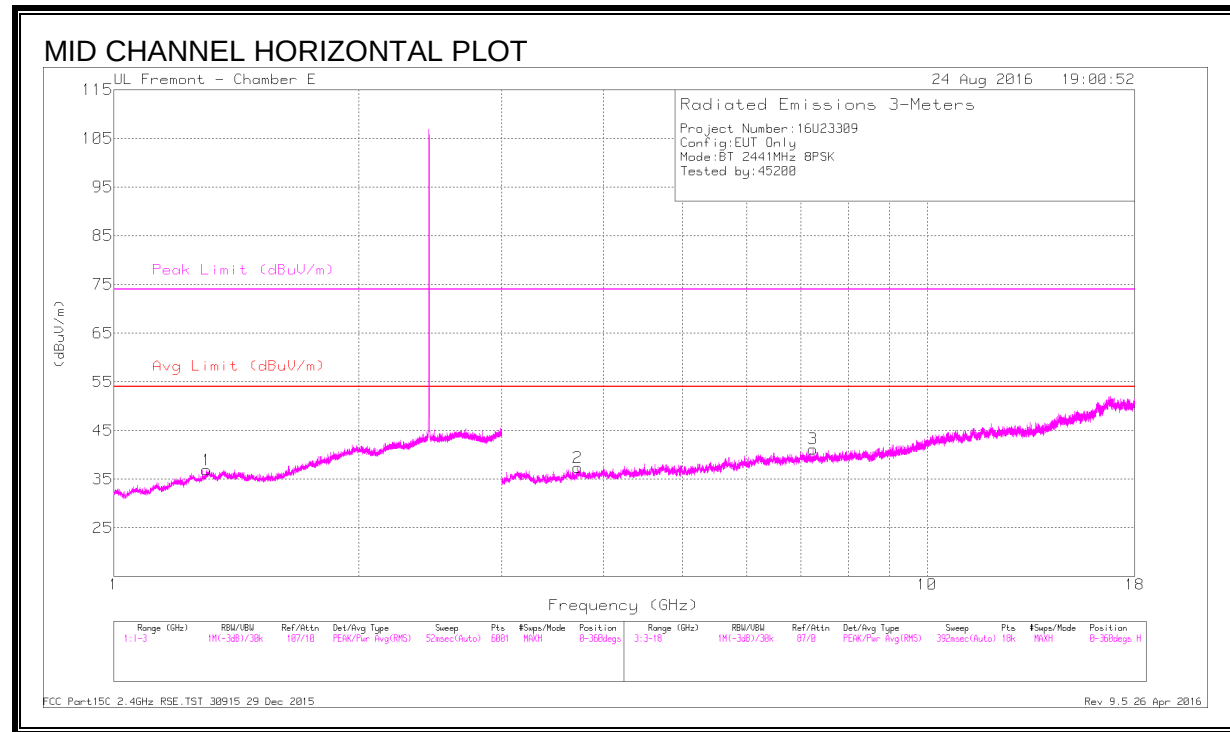
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cb/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.395	34.36	PKFH	29.1	-22	41.46	-	-	74	-32.54	349	284	H
	* 1.397	23.42	VA1T	29.1	-22	30.52	54	-23.48	-	-	349	284	H
2	* 2.812	36.93	PKFH	32.4	-20	49.33	-	-	74	-24.67	165	218	H
	* 2.81	25.15	VA1T	32.4	-20	37.55	54	-16.45	-	-	165	218	H
4	* 1.309	35.55	PKFH	29.3	-22.4	42.45	-	-	74	-31.55	297	251	V
	* 1.309	24.14	VA1T	29.3	-22.4	31.04	54	-22.96	-	-	297	251	V
3	* 3.827	40.96	PKFH	33.1	-31.2	42.86	-	-	74	-31.14	173	215	H
	* 3.829	29.09	VA1T	33.1	-31.2	30.99	54	-23.01	-	-	173	215	H
5	* 5.396	39.32	PKFH	34.4	-29.2	44.52	-	-	74	-29.48	340	377	V
	* 5.4	27.98	VA1T	34.4	-29.1	33.28	54	-20.72	-	-	340	377	V
6	* 10.852	36.03	PKFH	38	-22.9	51.13	-	-	74	-22.87	259	238	V
	* 10.852	24.18	VA1T	38	-22.9	39.28	54	-14.72	-	-	259	238	V

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

PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

HARMONICS AND SPURIOUS EMISSIONS



DATA

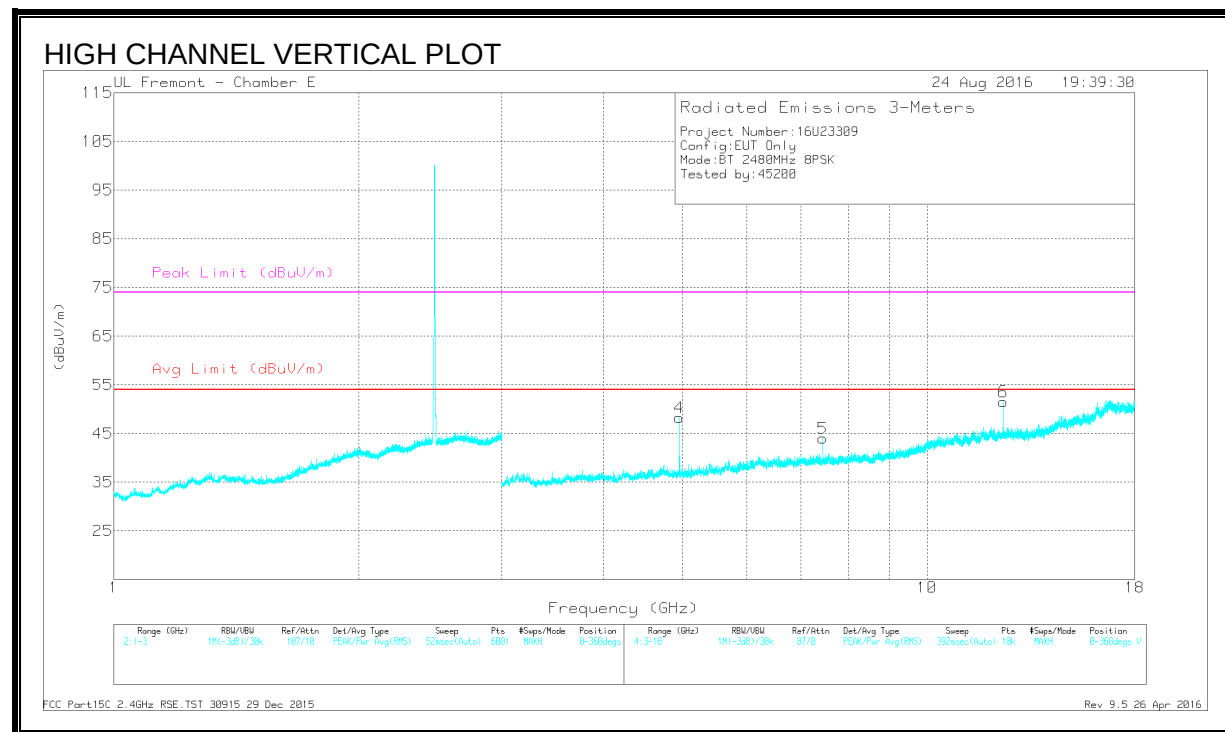
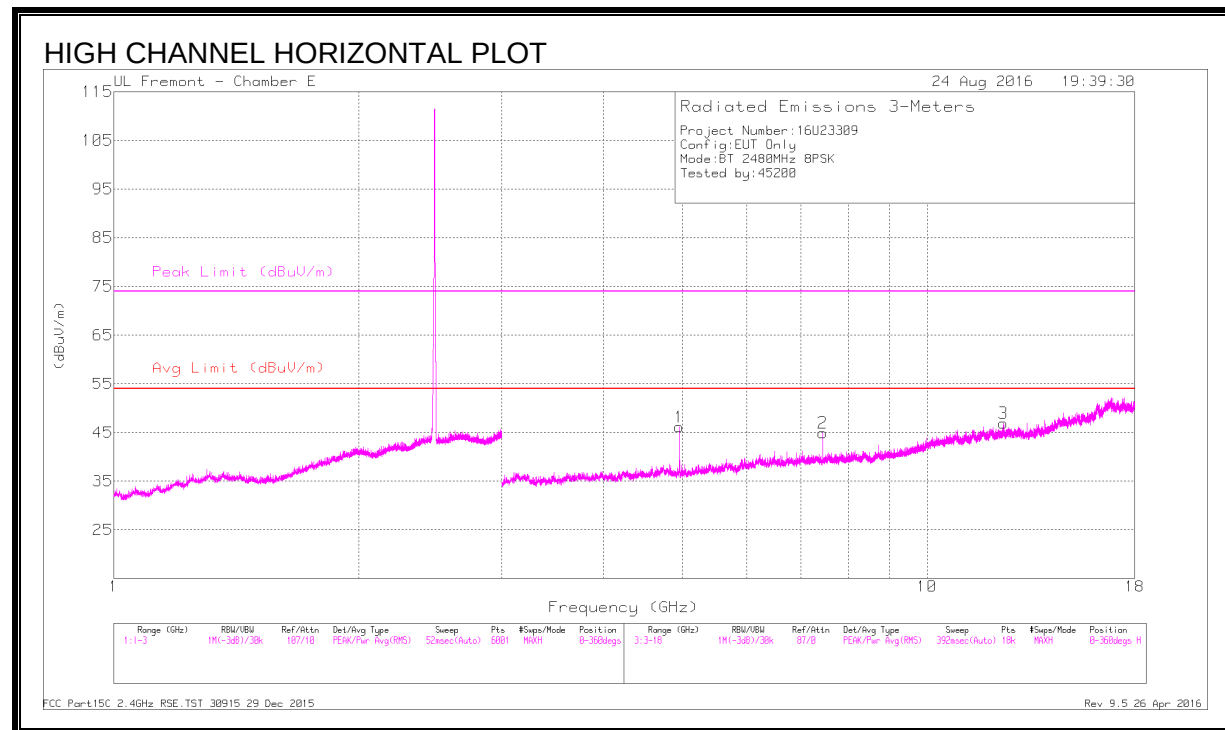
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cb/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.301	34.39	PKFH	29.3	-22.5	41.19	-	-	74	-32.81	120	365	H
	* 1.301	23.94	VA1T	29.3	-22.5	30.74	54	-23.26	-	-	120	365	H
4	* 1.242	36.47	PKFH	28.9	-22.6	42.77	-	-	74	-31.23	112	356	V
	* 1.244	24.03	VA1T	28.9	-22.5	30.43	54	-23.57	-	-	112	356	V
2	* 3.717	39.13	PKFH	33.1	-30.1	42.13	-	-	74	-31.87	42	207	H
	* 3.719	28.11	VA1T	33.1	-30.1	31.11	54	-22.89	-	-	42	207	H
5	* 7.612	37.02	PKFH	35.7	-26.4	46.32	-	-	74	-27.68	137	177	V
	* 7.615	25.47	VA1T	35.7	-26.5	34.67	54	-19.33	-	-	137	177	V
6	* 11.365	36.32	PKFH	38.2	-22.9	51.62	-	-	74	-22.38	221	341	V
	* 11.363	24.44	VA1T	38.2	-23	39.64	54	-14.36	-	-	221	341	V
3	7.245	38.24	PKFH	35.6	-27.4	46.44	-	-	-	-	116	114	H

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

PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

HARMONICS AND SPURIOUS EMISSIONS



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cb1/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.961	46.82	PKFH	34	-30.5	50.32	-	-	74	-23.68	354	128	H
	* 4.96	41.25	VA1T	34	-30.5	44.75	54	-9.25	-	-	354	128	H
2	* 7.44	41.83	PKFH	35.5	-27.5	49.83	-	-	74	-24.17	95	106	H
	* 7.44	32.77	VA1T	35.5	-27.5	40.77	54	-13.23	-	-	95	106	H
3	* 12.4	39.24	PKFH	39	-23.5	54.74	-	-	74	-19.26	33	398	H
	* 12.4	29.56	VA1T	39	-23.5	45.06	54	-8.94	-	-	33	398	H
4	* 4.96	49.58	PKFH	34	-30.5	53.08	-	-	74	-20.92	200	305	V
	* 4.96	44.88	VA1T	34	-30.5	48.38	54	-5.62	-	-	200	305	V
5	* 7.44	42.14	PKFH	35.5	-27.5	50.14	-	-	74	-23.86	37	210	V
	* 7.44	34.17	VA1T	35.5	-27.5	42.17	54	-11.83	-	-	37	210	V
6	* 12.401	41.74	PKFH	39	-23.5	57.24	-	-	74	-16.76	226	234	V
	* 12.4	32.6	VA1T	39	-23.5	48.1	54	-5.9	-	-	226	234	V

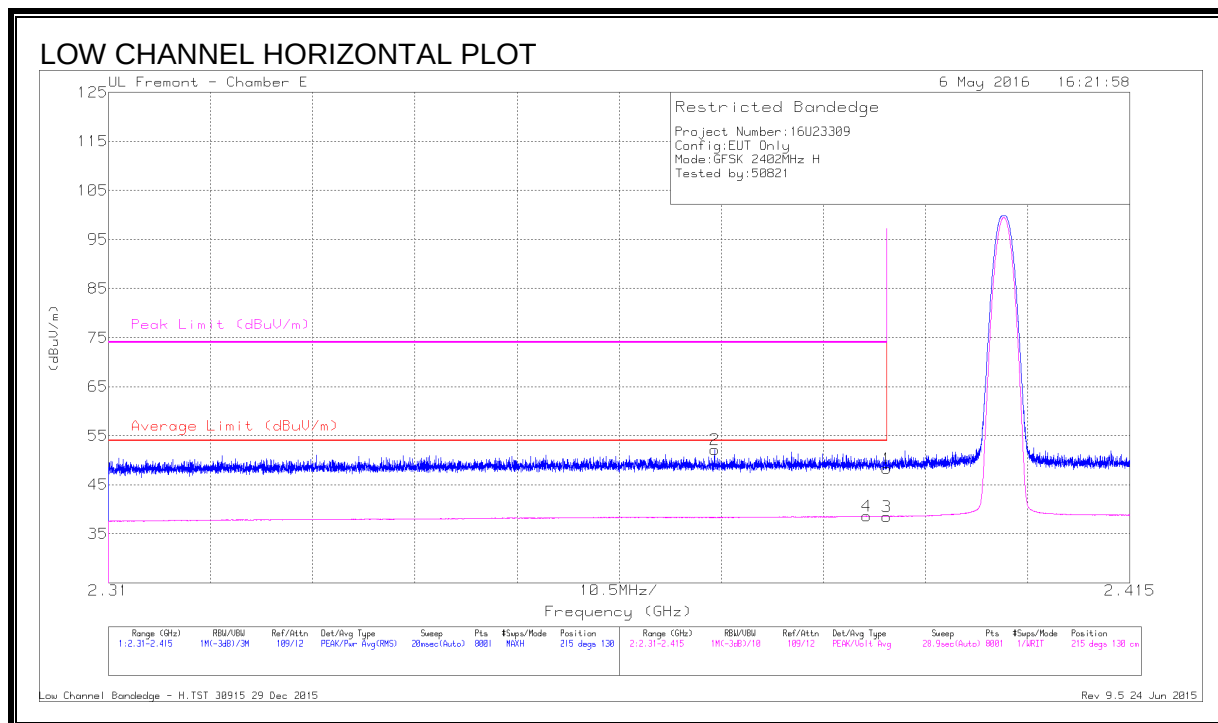
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

8.2.3. LOW POWER BASIC DATA RATE GFSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



DATA

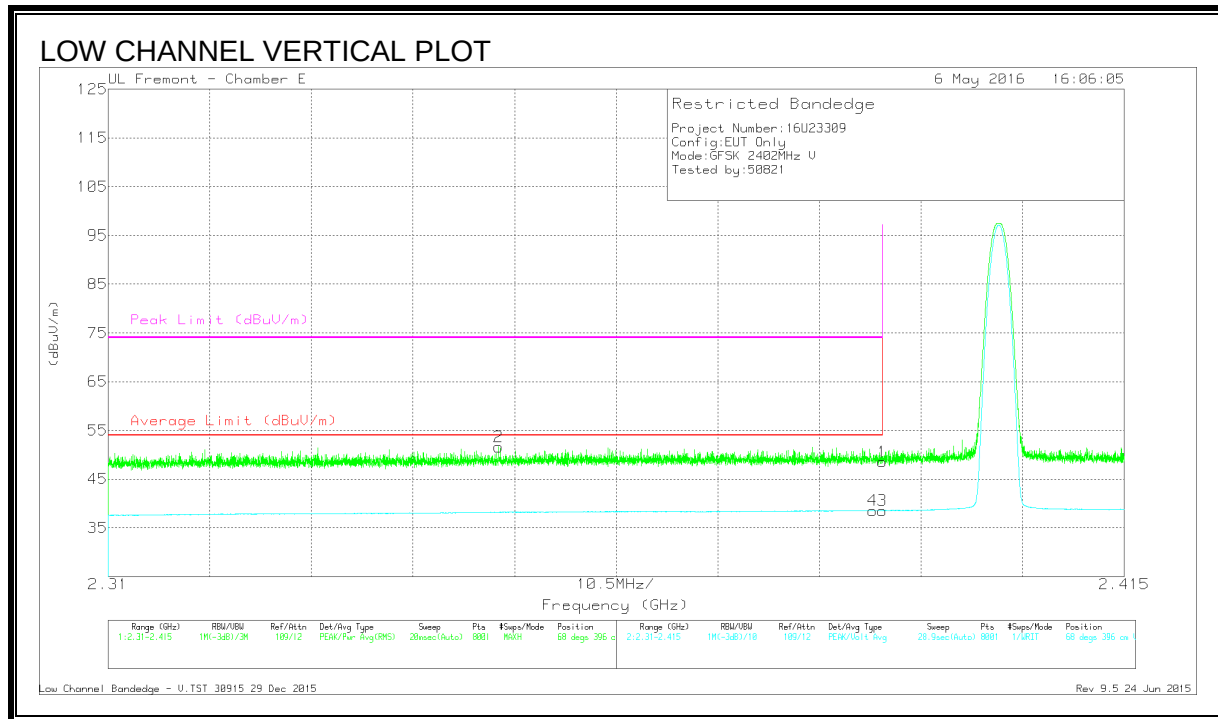
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.372	40.17	Pk	32	-20	52.17	-	-	74	-21.83	215	130	H
4	* 2.388	26.37	VA1T	32.1	-19.9	38.57	54	-15.43	-	-	215	130	H
1	* 2.39	36.05	Pk	32.1	-19.9	48.25	-	-	74	-25.75	215	130	H
3	* 2.39	26.32	VA1T	32.1	-19.9	38.52	54	-15.48	-	-	215	130	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

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

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



DATA

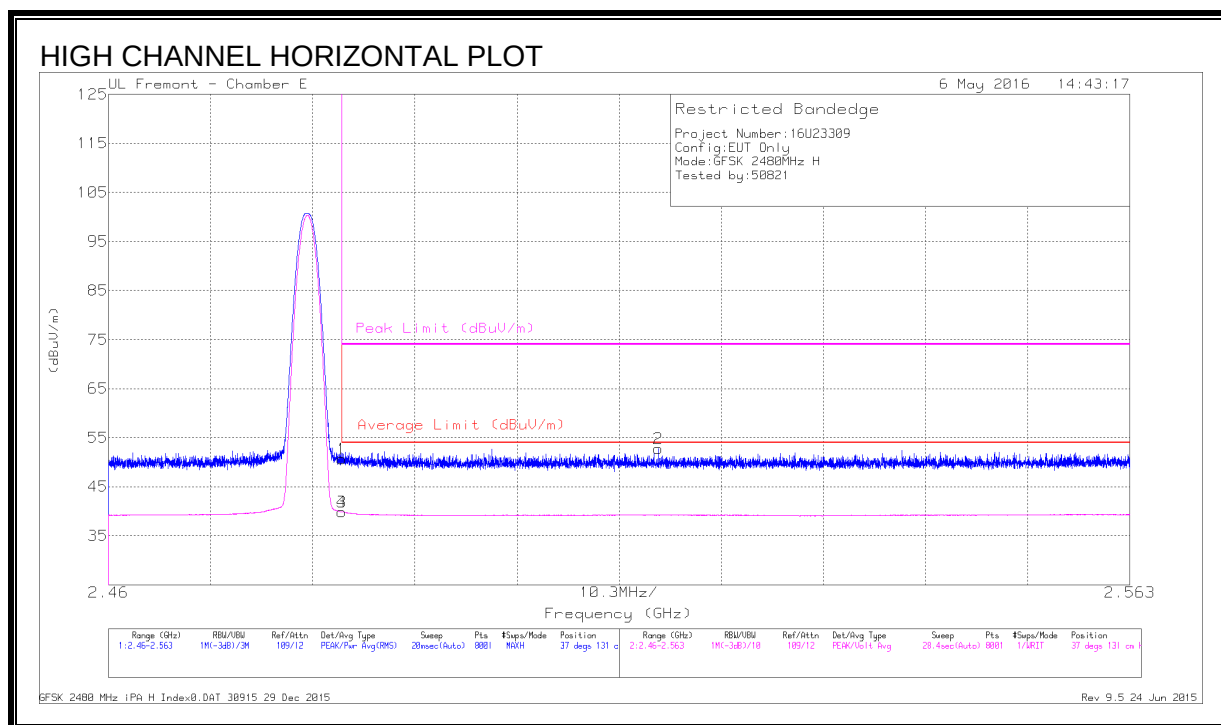
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2	* 2.35	39.9	Pk	31.8	-20.1	51.6	-	-	74	-22.4	68	396	V
4	* 2.389	26.36	VA1T	32.1	-19.9	38.56	54	-15.44	-	-	68	396	V
1	* 2.39	36.41	Pk	32.1	-19.9	48.61	-	-	74	-25.39	68	396	V
3	* 2.39	26.36	VA1T	32.1	-19.9	38.56	54	-15.44	-	-	68	396	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

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

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



DATA

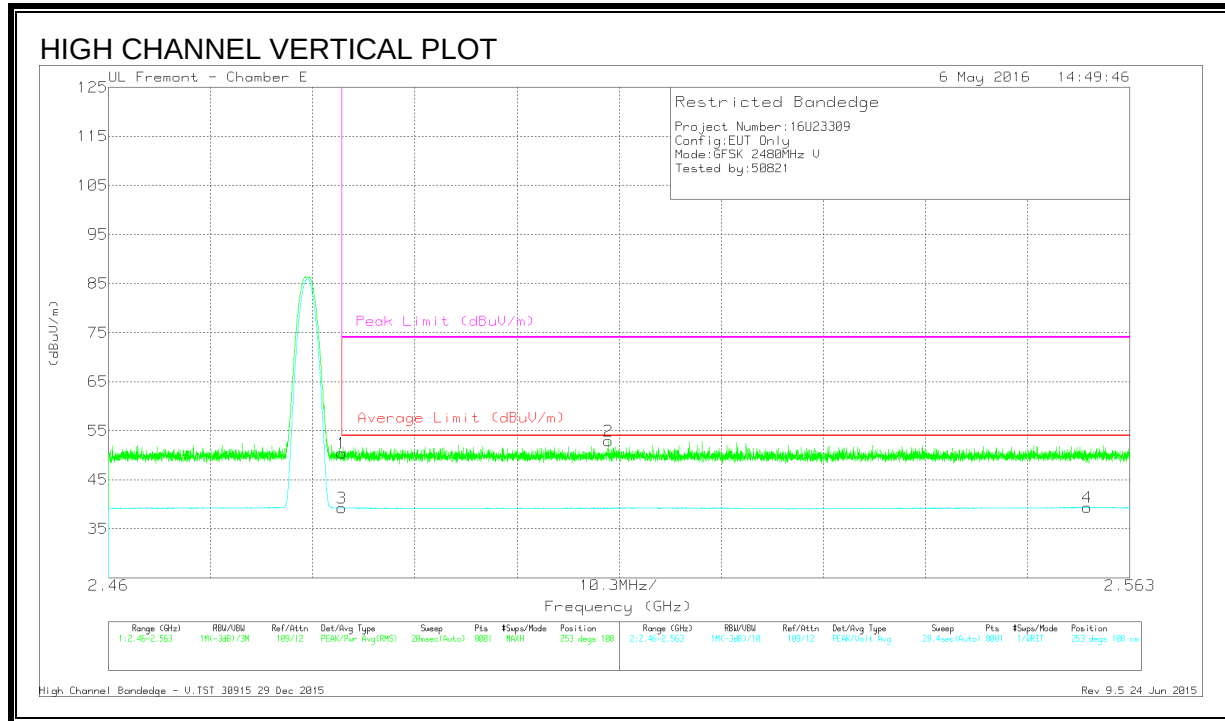
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.34	Pk	32.3	-20	50.64	-	-	74	-23.36	37	131	H
3	* 2.484	27.59	VA1T	32.3	-20	39.89	54	-14.11	-	-	37	131	H
4	* 2.484	27.58	VA1T	32.3	-20	39.88	54	-14.12	-	-	37	131	H
2	2.515	40.63	Pk	32.3	-20.1	52.83	-	-	74	-21.17	37	131	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

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

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



DATA

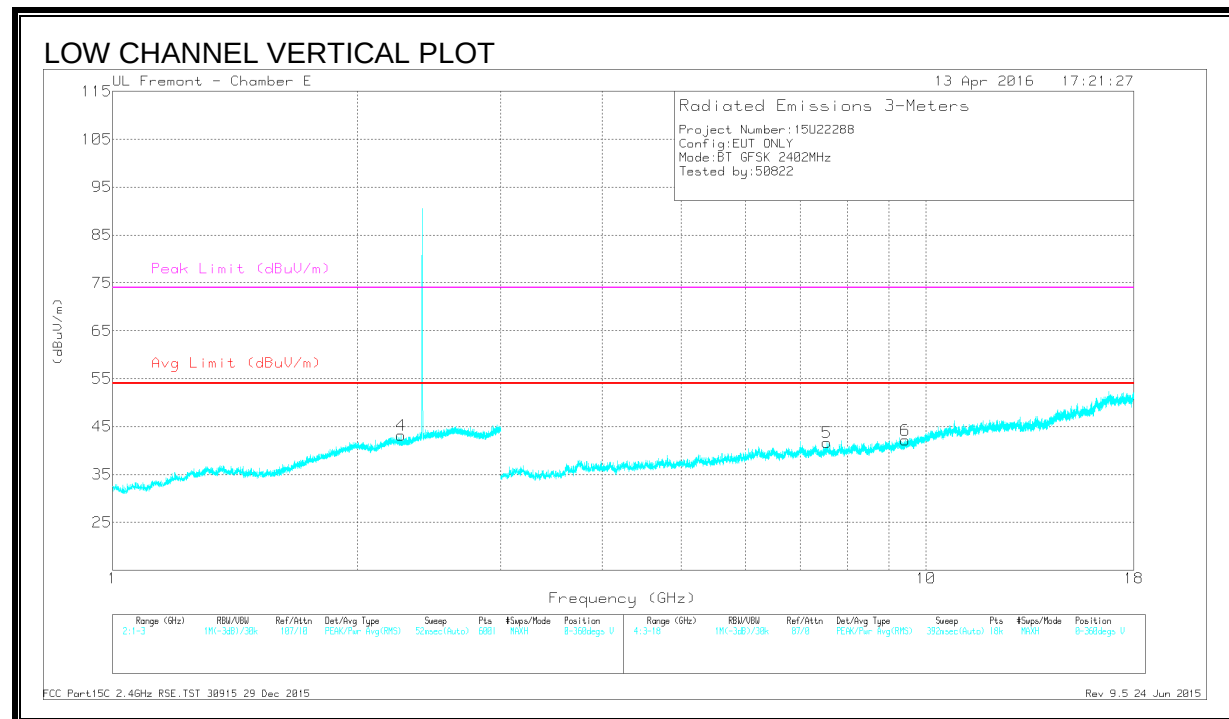
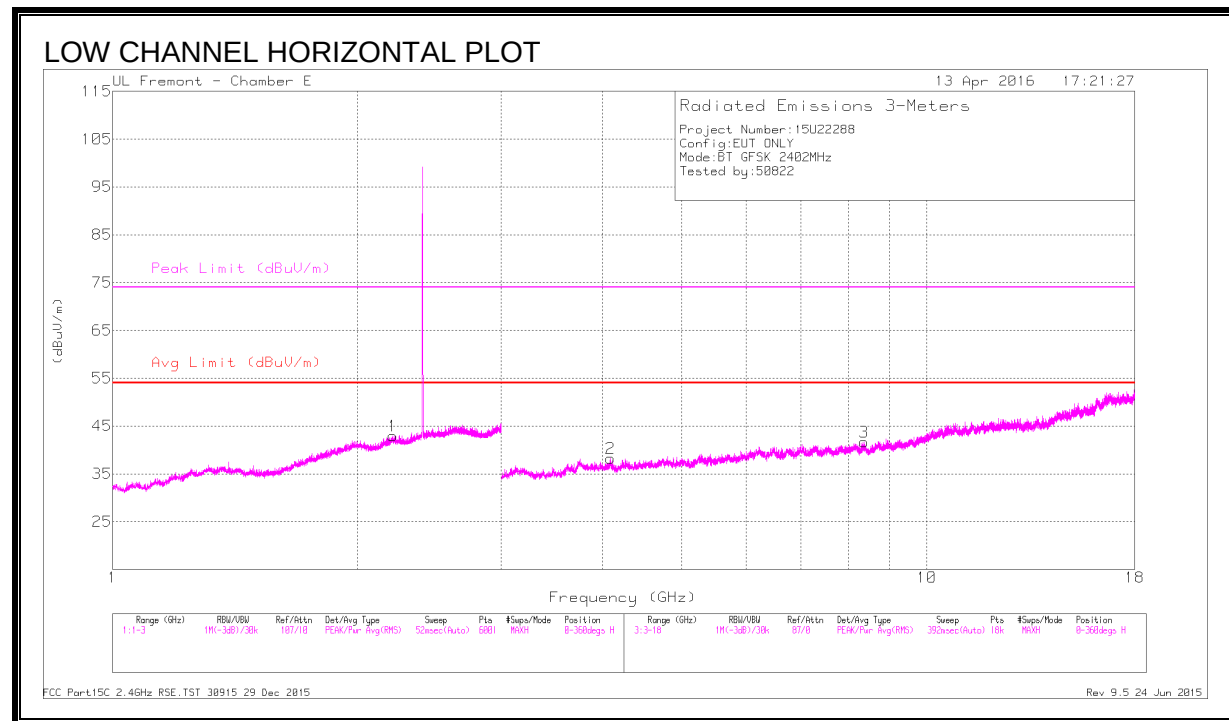
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.17	Pk	32.3	-20	50.47	-	-	74	-23.53	253	108	V
3	* 2.484	26.98	VA1T	32.3	-20	39.28	54	-14.72	-	-	253	108	V
2	2.51	40.74	Pk	32.3	-20.1	52.94	-	-	74	-21.06	253	108	V
4	2.559	26.96	VA1T	32.5	-20.1	39.36	54	-14.64	-	-	253	108	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

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

HARMONICS AND SPURIOUS EMISSIONS



DATA

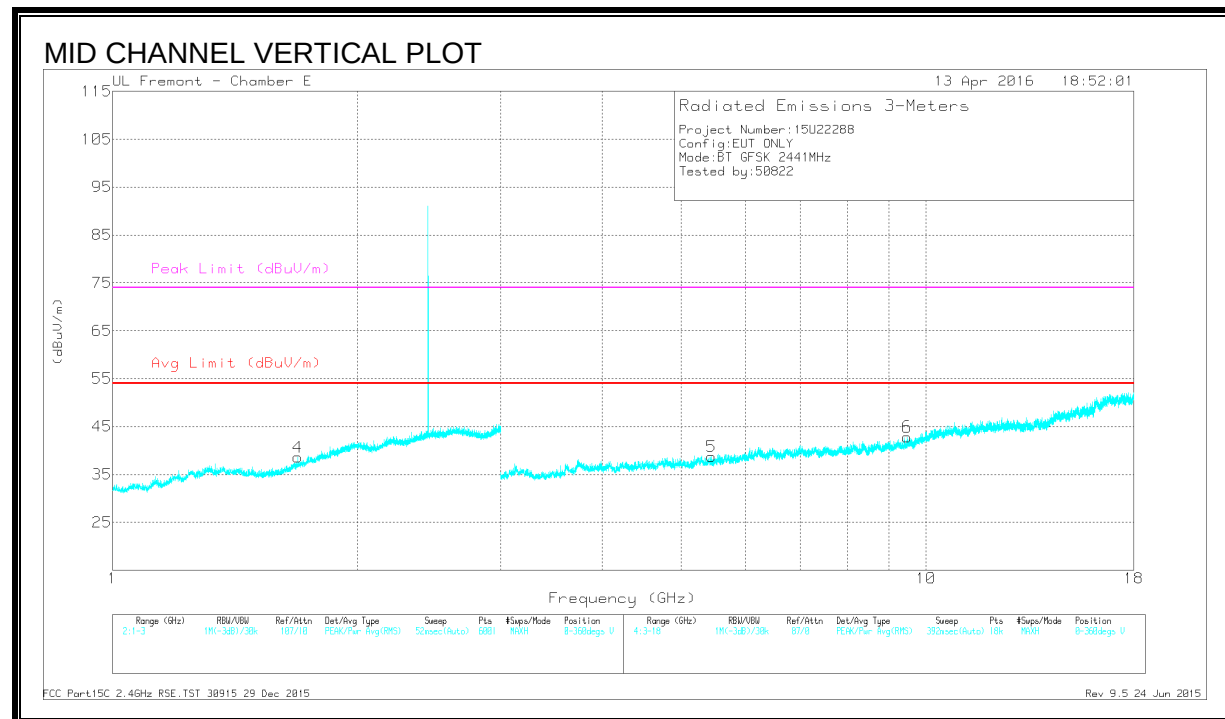
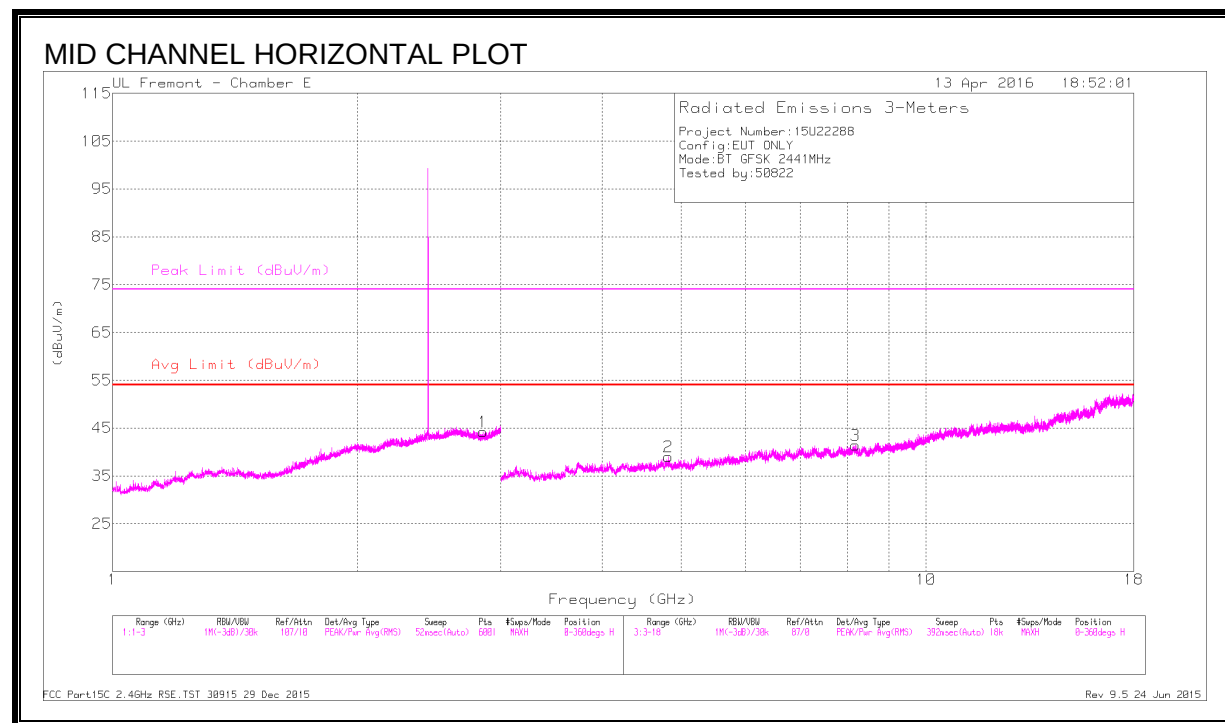
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.209	38.23	PK2	31.8	-20	50.03	-	-	74	-23.97	355	362	H
	* 2.207	24.26	VA1T	31.8	-20	36.06	54	-17.94	-	-	355	362	H
4	* 2.261	37.37	PK2	31.6	-20.1	48.87	-	-	74	-25.13	173	334	V
	* 2.264	24.25	VA1T	31.6	-20.1	35.75	54	-18.25	-	-	173	334	V
2	* 4.089	42.24	PK2	33.3	-30.8	44.74	-	-	74	-29.26	177	233	H
	* 4.089	28.88	VA1T	33.3	-30.8	31.38	54	-22.62	-	-	177	233	H
3	* 8.379	38.63	PK2	35.7	-25.8	48.53	-	-	74	-25.47	47	120	H
	* 8.377	25.72	VA1T	35.7	-25.9	35.52	54	-18.48	-	-	47	120	H
5	* 7.554	38.29	PK2	35.6	-26	47.89	-	-	74	-26.11	222	319	V
	* 7.554	25.32	VA1T	35.6	-26	34.92	54	-19.08	-	-	222	319	V
6	* 9.433	37.78	PK2	36.3	-25.2	48.88	-	-	74	-25.12	235	150	V
	* 9.433	24.92	VA1T	36.3	-25.2	36.02	54	-17.98	-	-	235	150	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

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

HARMONICS AND SPURIOUS EMISSIONS



DATA

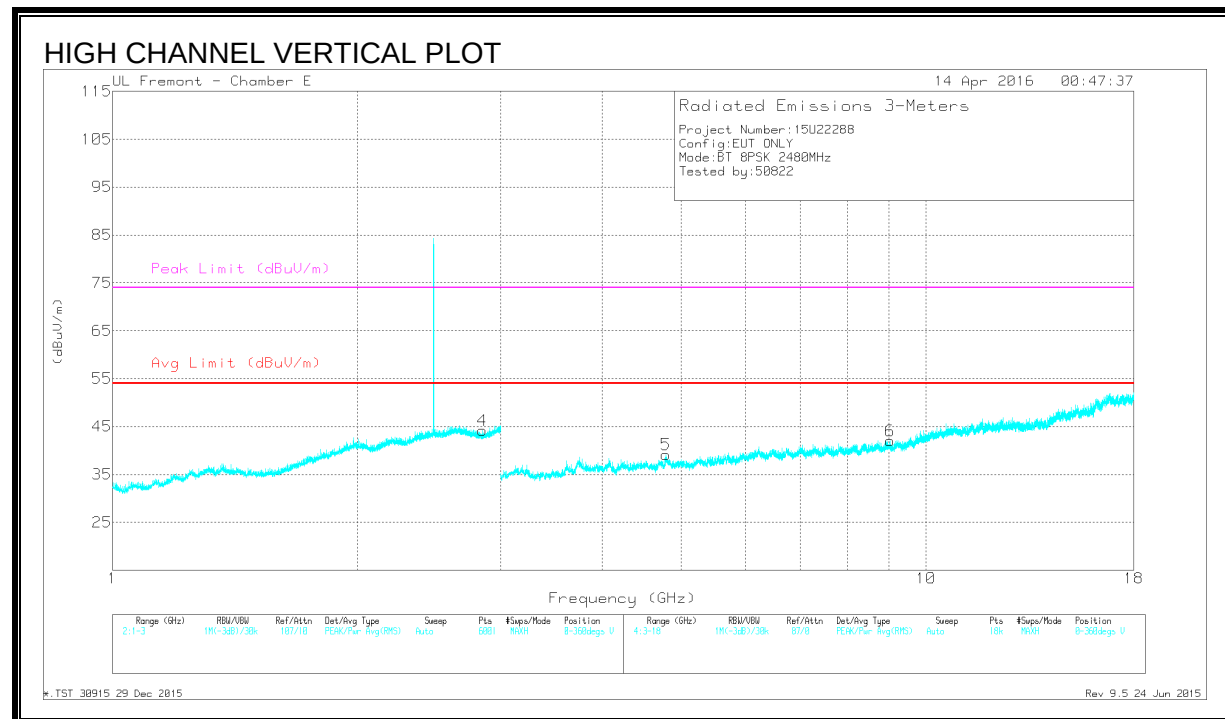
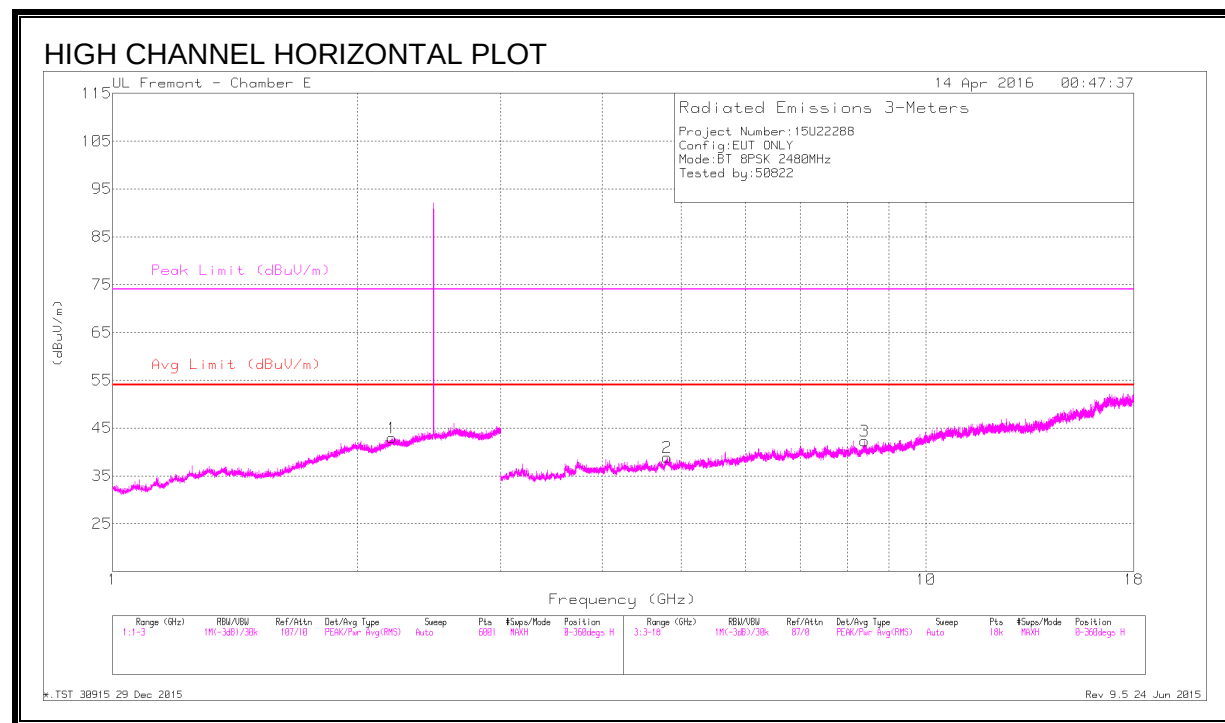
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.853	37.64	PK2	32.1	-19.8	49.94	-	-	74	-24.06	338	209	H
	* 2.853	24.7	VA1T	32.1	-19.8	37	54	-17	-	-	338	209	H
4	* 1.691	37.14	PK2	29	-21.1	45.04	-	-	74	-28.96	235	198	V
	* 1.69	23.64	VA1T	29	-21.1	31.54	54	-22.46	-	-	235	198	V
2	* 4.819	41.59	PK2	34	-30	45.59	-	-	74	-28.41	14	302	H
	* 4.818	28.14	VA1T	34	-30	32.14	54	-21.86	-	-	14	302	H
3	* 8.186	38.63	PK2	35.8	-26.2	48.23	-	-	74	-25.77	173	337	H
	* 8.187	25.75	VA1T	35.8	-26.2	35.35	54	-18.65	-	-	173	337	H
5	* 5.45	41.04	PK2	34.4	-30.2	45.24	-	-	74	-28.76	0	294	V
	* 5.453	28.31	VA1T	34.4	-30.2	32.51	54	-21.49	-	-	0	294	V
6	* 9.481	37.33	PK2	36.4	-25	48.73	-	-	74	-25.27	15	109	V
	* 9.483	24.66	VA1T	36.4	-25	36.06	54	-17.94	-	-	15	109	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

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

HARMONICS AND SPURIOUS EMISSIONS



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (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	* 2.207	24.5	Av	31.8	-20	36.3	54	-17.7	-	-	347	198	H
	* 2.205	37.46	PK2	31.8	-20	49.26	-	-	74	-24.74	347	198	H
4	* 2.85	37.82	PK2	32.2	-19.8	50.22	-	-	74	-23.78	294	243	V
	* 2.849	24.81	VA1T	32.2	-19.8	37.21	54	-16.79	-	-	294	243	V
2	* 4.804	41.65	PK2	34	-29.8	45.85	-	-	74	-28.15	324	296	H
	* 4.804	28.61	VA1T	34	-29.8	32.81	54	-21.19	-	-	324	296	H
3	* 8.404	37.83	PK2	35.7	-25.3	48.23	-	-	74	-25.77	21	117	H
	* 8.402	25.34	VA1T	35.7	-25.3	35.74	54	-18.26	-	-	21	117	H
5	* 4.784	41.56	PK2	34	-29.4	46.16	-	-	74	-27.84	184	273	V
	* 4.785	28.51	VA1T	34	-29.4	33.11	54	-20.89	-	-	184	273	V
6	* 9.036	37.09	PK2	36.1	-25.3	47.89	-	-	74	-26.11	175	206	V
	* 9.036	24.37	VA1T	36.1	-25.3	35.17	54	-18.83	-	-	175	206	V

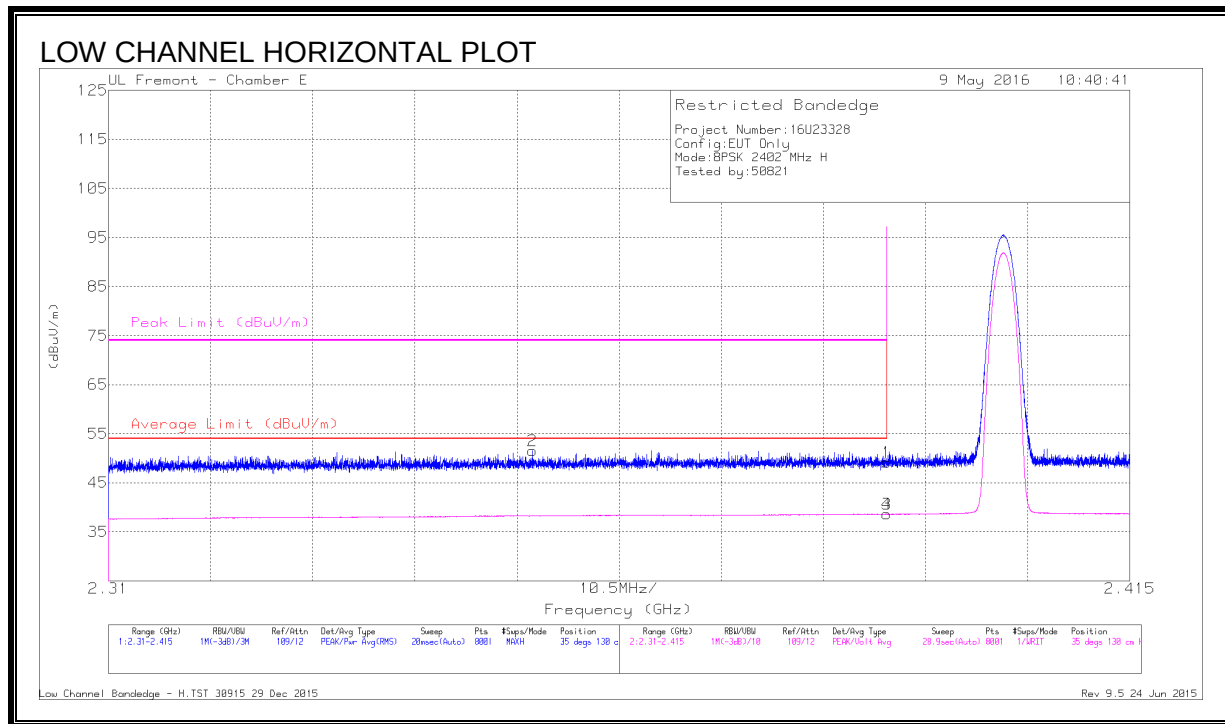
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

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

8.2.4. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



DATA

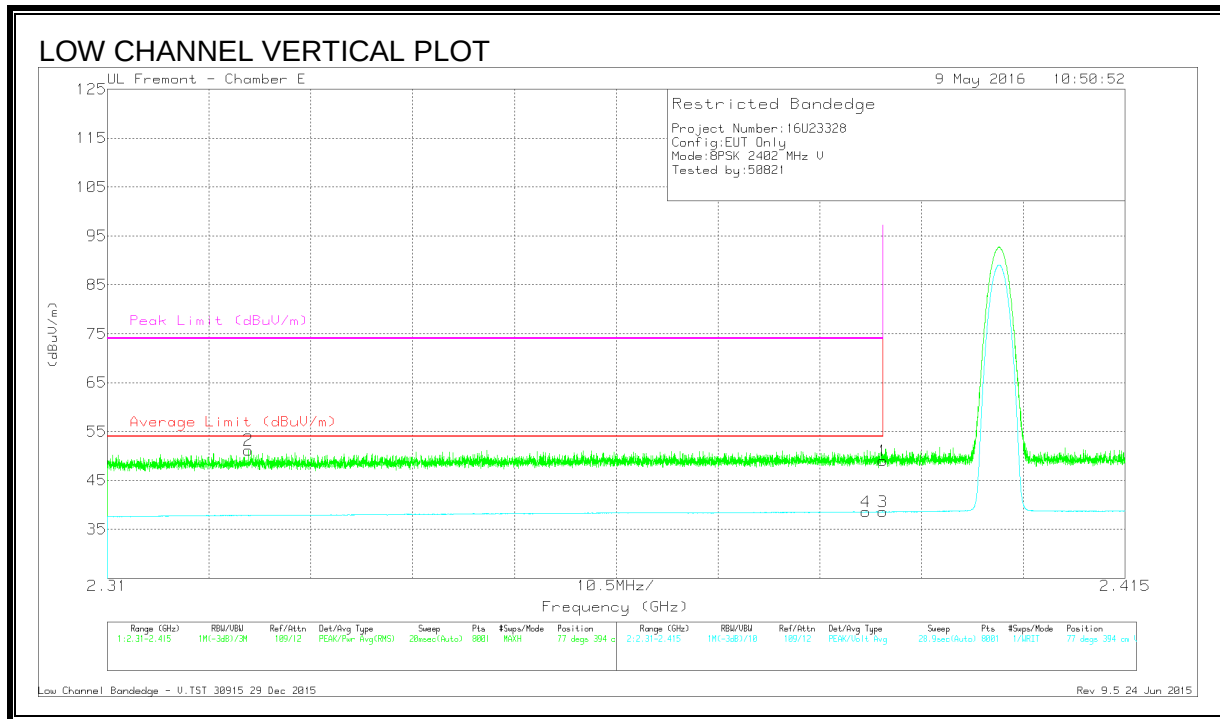
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.354	39.81	Pk	31.8	-20.1	51.51	-	-	74	-22.49	35	130	H
1	* 2.39	37.02	Pk	32.1	-19.9	49.22	-	-	74	-24.78	35	130	H
3	* 2.39	26.39	VA1T	32.1	-19.9	38.59	54	-15.41	-	-	35	130	H
4	* 2.39	26.39	VA1T	32.1	-19.9	38.59	54	-15.41	-	-	35	130	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

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

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



DATA

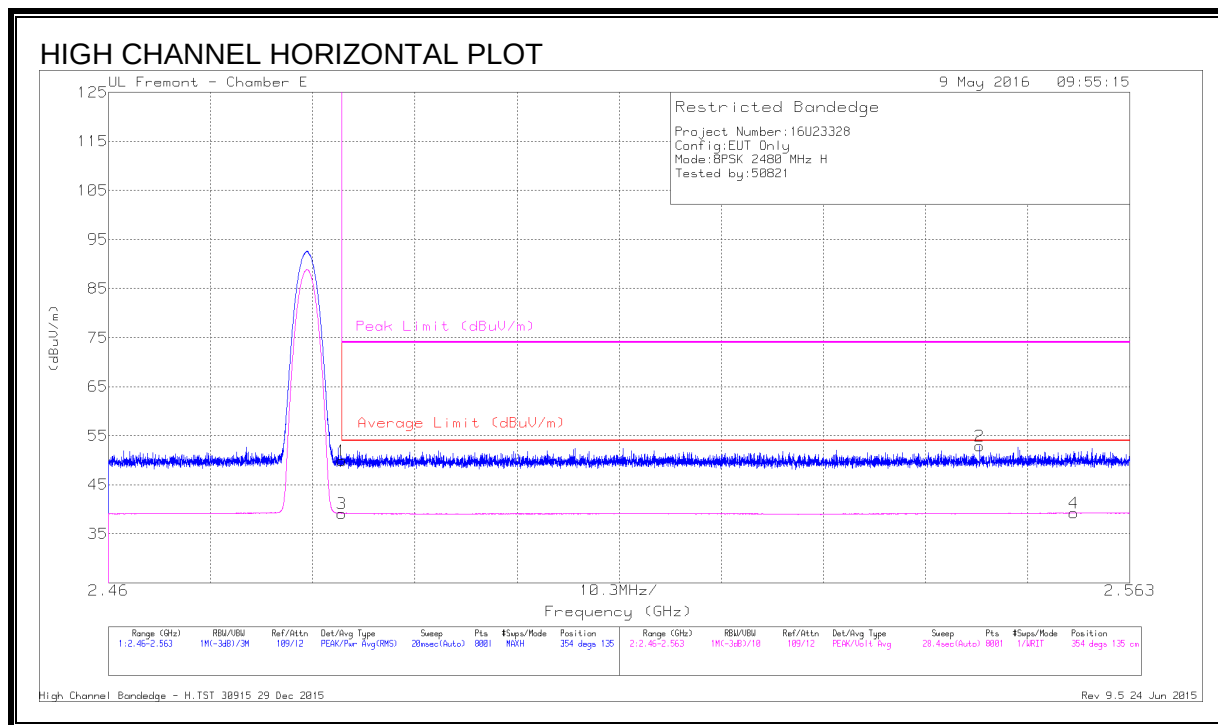
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.325	39.72	Pk	31.6	-20.1	51.22	-	-	74	-22.78	77	394	V
4	* 2.388	26.39	VA1T	32.1	-19.9	38.59	54	-15.41	-	-	77	394	V
1	* 2.39	36.89	Pk	32.1	-19.9	49.09	-	-	74	-24.91	77	394	V
3	* 2.39	26.38	VA1T	32.1	-19.9	38.58	54	-15.42	-	-	77	394	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

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

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



DATA

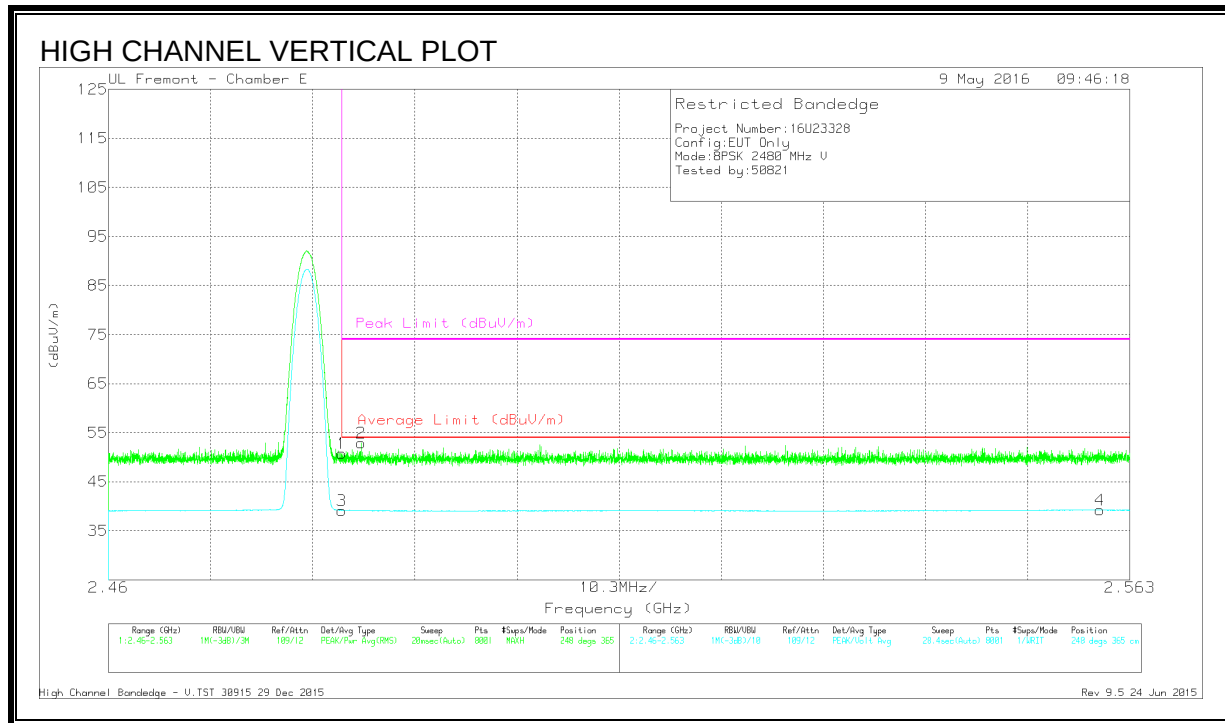
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	37.67	Pk	32.3	-20	49.97	-	-	74	-24.03	354	135	H
3	* 2.484	26.86	VA1T	32.3	-20	39.16	54	-14.84	-	-	354	135	H
2	2.548	40.66	Pk	32.4	-20.2	52.86	-	-	74	-21.14	354	135	H
4	2.557	26.99	VA1T	32.4	-20.1	39.29	54	-14.71	-	-	354	135	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

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

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



DATA

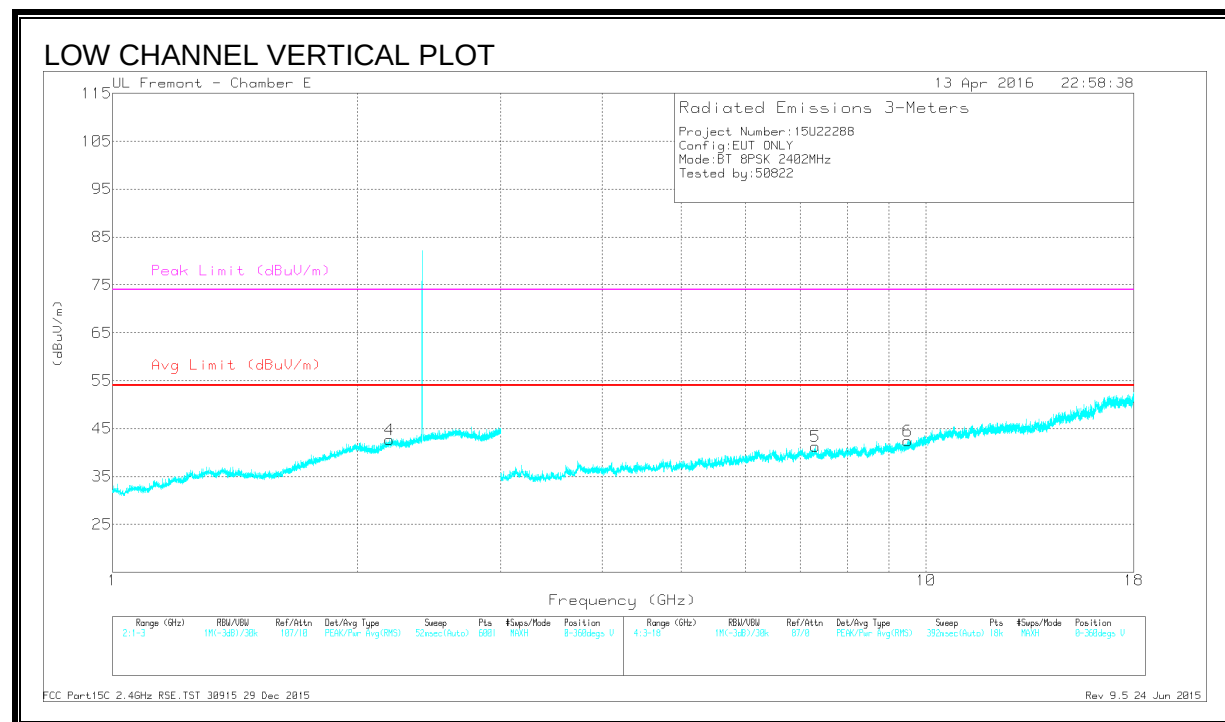
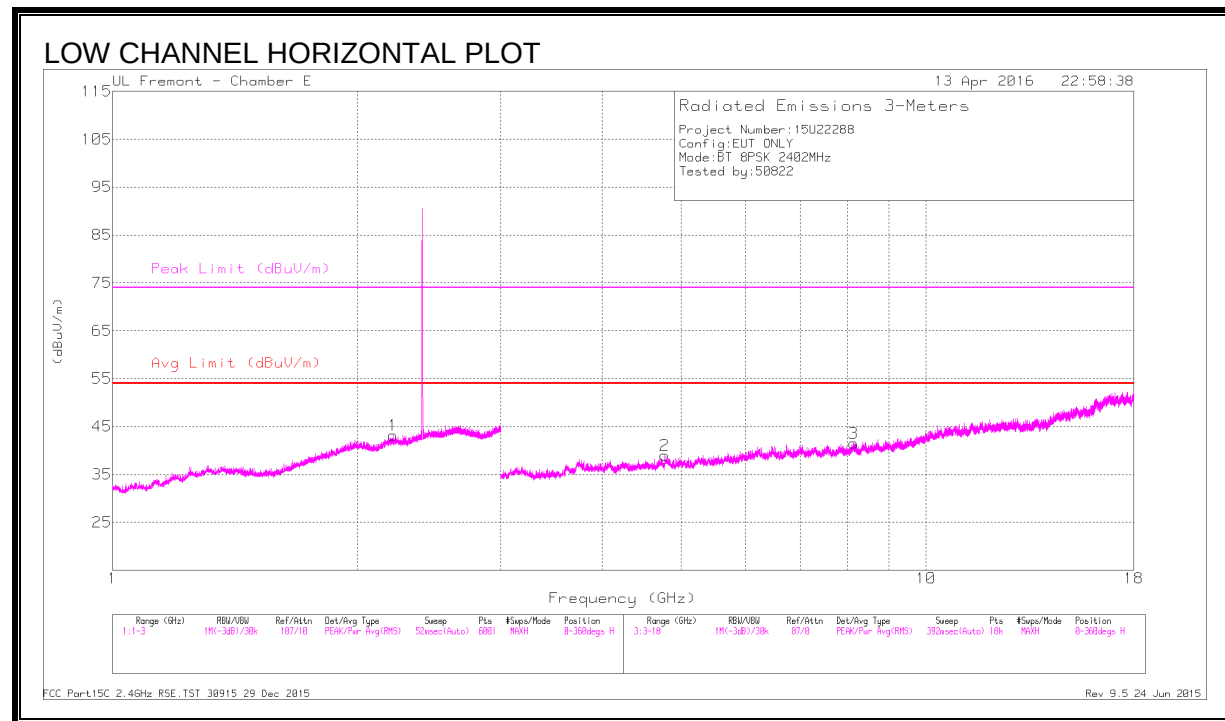
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.49	Pk	32.3	-20	50.79	-	-	74	-23.21	248	365	V
3	* 2.484	26.83	VA1T	32.3	-20	39.13	54	-14.87	-	-	248	365	V
2	* 2.485	40.65	Pk	32.3	-20.1	52.85	-	-	74	-21.15	248	365	V
4	2.56	26.87	VA1T	32.5	-20.1	39.27	54	-14.73	-	-	248	365	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

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

HARMONICS AND SPURIOUS EMISSIONS



DATA

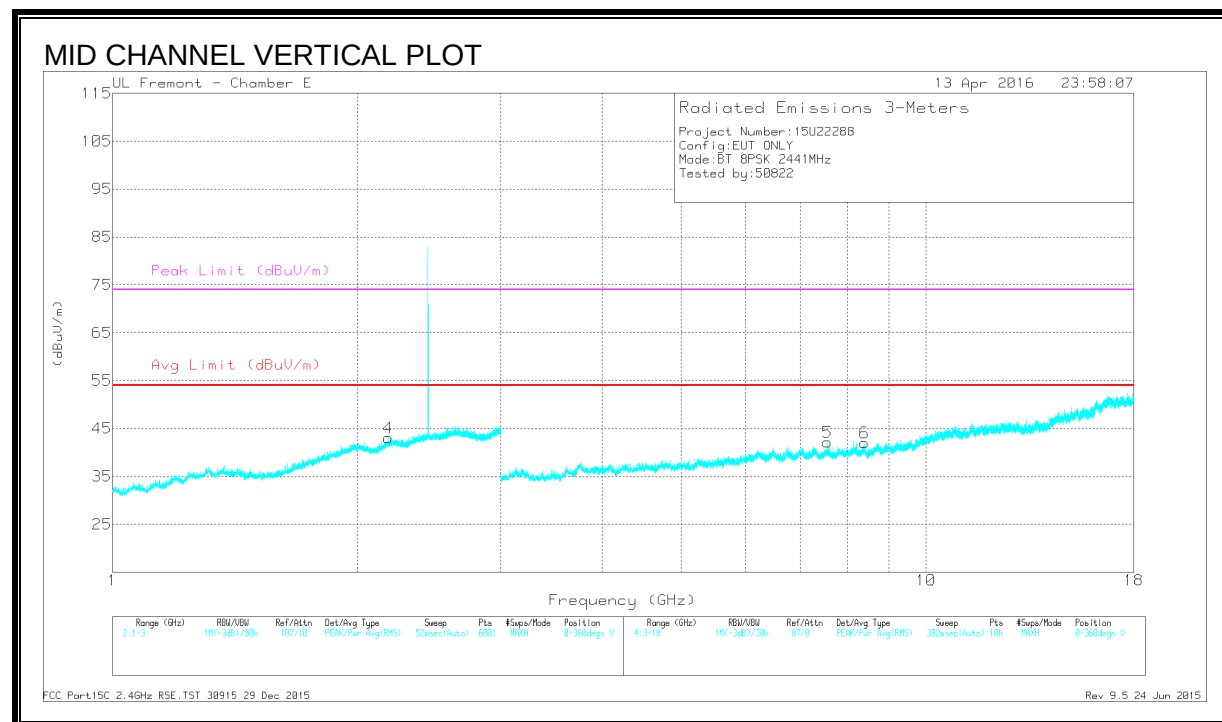
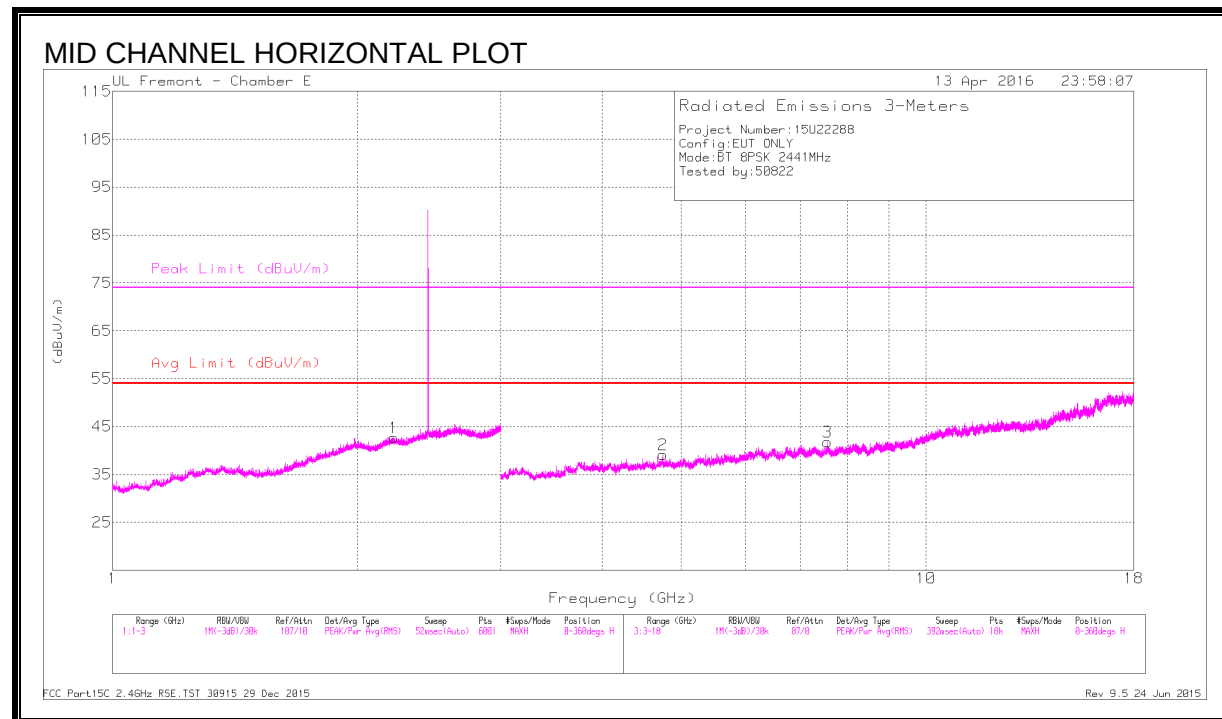
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.215	37.35	PK2	31.8	-20.1	49.05	-	-	74	-24.95	39	106	H
	* 2.212	24.31	VA1T	31.8	-20	36.11	54	-17.89	-	-	39	106	H
2	* 4.772	41.66	PK2	34	-29.3	46.36	-	-	74	-27.64	351	152	H
	* 4.773	28.28	VA1T	34	-29.3	32.98	54	-21.02	-	-	351	152	H
3	* 8.142	38.08	PK2	35.7	-25.5	48.28	-	-	74	-25.72	241	172	H
	* 8.14	25.14	VA1T	35.7	-25.4	35.44	54	-18.56	-	-	241	172	H
5	* 7.311	38.15	PK2	35.6	-26.1	47.65	-	-	74	-26.35	60	168	V
	* 7.31	25.34	VA1T	35.6	-26.1	34.84	54	-19.16	-	-	60	168	V
6	* 9.49	36.93	PK2	36.4	-25	48.33	-	-	74	-25.67	0	219	V
	* 9.489	24.52	VA1T	36.4	-25	35.92	54	-18.08	-	-	0	219	V
4	2.189	24.24	VA1T	31.7	-20.1	35.84	-	-	-	-	29	107	V
	2.19	37.28	PK2	31.8	-20.1	48.98	-	-	-	-	29	107	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

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

HARMONICS AND SPURIOUS EMISSIONS



DATA

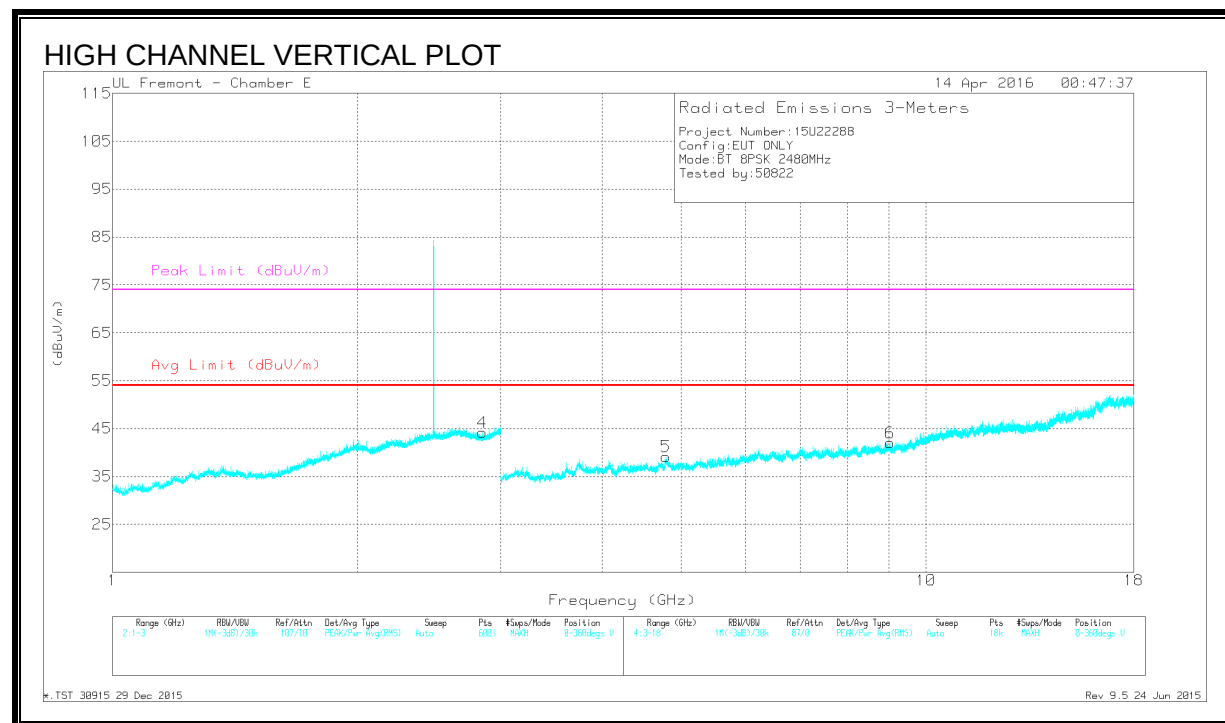
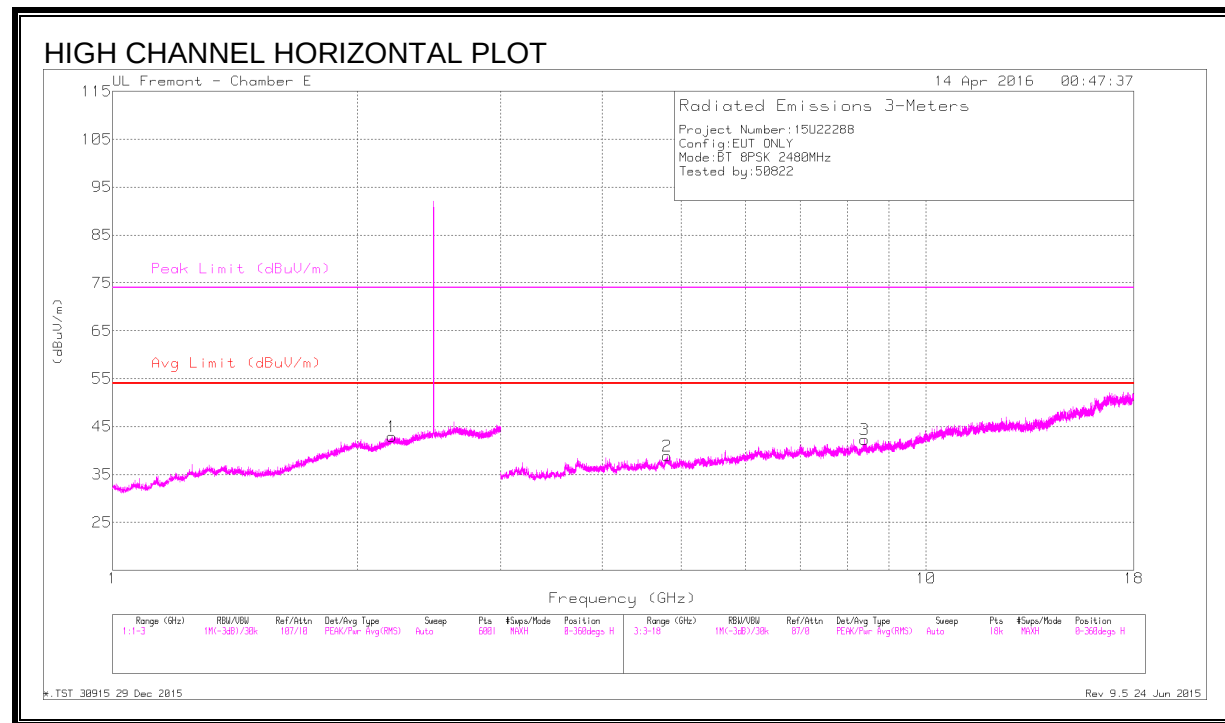
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.217	38.04	PK2	31.8	-20	49.84	-	-	74	-24.16	296	136	H
	* 2.214	24.32	VA1T	31.8	-20.1	36.02	54	-17.98	-	-	296	136	H
2	* 4.743	40.66	PK2	34	-29.1	45.56	-	-	74	-28.44	118	284	H
	* 4.744	27.71	VA1T	34	-29.1	32.61	54	-21.39	-	-	118	284	H
3	* 7.558	37.82	PK2	35.6	-25.9	47.52	-	-	74	-26.48	360	273	H
	* 7.557	25.23	VA1T	35.6	-25.9	34.93	54	-19.07	-	-	360	273	H
5	* 7.57	37.91	PK2	35.6	-25.7	47.81	-	-	74	-26.19	294	251	V
	* 7.569	24.84	VA1T	35.6	-25.7	34.74	54	-19.26	-	-	294	251	V
6	* 8.397	38.79	PK2	35.7	-25.4	49.09	-	-	74	-24.91	90	207	V
	* 8.394	25.51	VA1T	35.7	-25.4	35.81	54	-18.19	-	-	90	207	V
4	2.181	24.21	VA1T	31.7	-20.2	35.71	-	-	-	-	302	188	V
	2.183	37.74	PK2	31.7	-20.2	49.24	-	-	-	-	302	188	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

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

HARMONICS AND SPURIOUS EMISSIONS



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (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	* 2.207	24.5	Av	31.8	-20	36.3	54	-17.7	-	-	347	198	H
	* 2.205	37.46	PK2	31.8	-20	49.26	-	-	74	-24.74	347	198	H
4	* 2.85	37.82	PK2	32.2	-19.8	50.22	-	-	74	-23.78	294	243	V
	* 2.849	24.81	VA1T	32.2	-19.8	37.21	54	-16.79	-	-	294	243	V
2	* 4.804	41.65	PK2	34	-29.8	45.85	-	-	74	-28.15	324	296	H
	* 4.804	28.61	VA1T	34	-29.8	32.81	54	-21.19	-	-	324	296	H
3	* 8.404	37.83	PK2	35.7	-25.3	48.23	-	-	74	-25.77	21	117	H
	* 8.402	25.34	VA1T	35.7	-25.3	35.74	54	-18.26	-	-	21	117	H
5	* 4.784	41.56	PK2	34	-29.4	46.16	-	-	74	-27.84	184	273	V
	* 4.785	28.51	VA1T	34	-29.4	33.11	54	-20.89	-	-	184	273	V
6	* 9.036	37.09	PK2	36.1	-25.3	47.89	-	-	74	-26.11	175	206	V
	* 9.036	24.37	VA1T	36.1	-25.3	35.17	54	-18.83	-	-	175	206	V

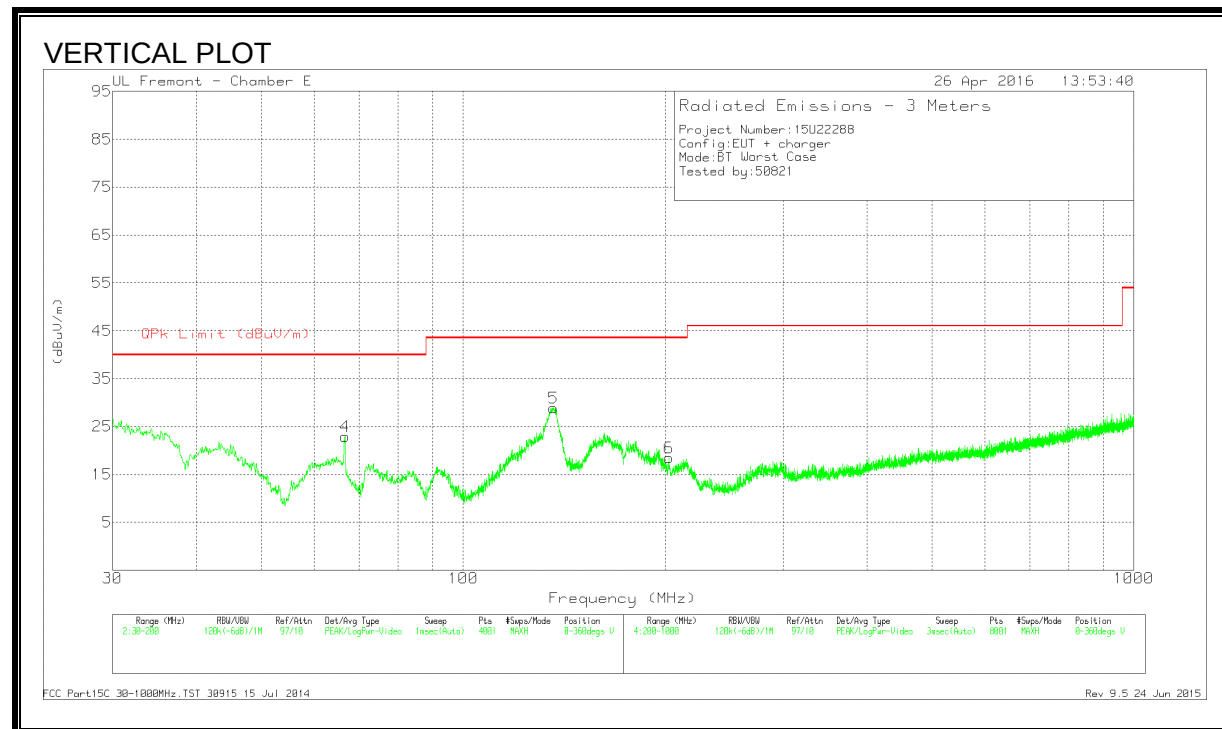
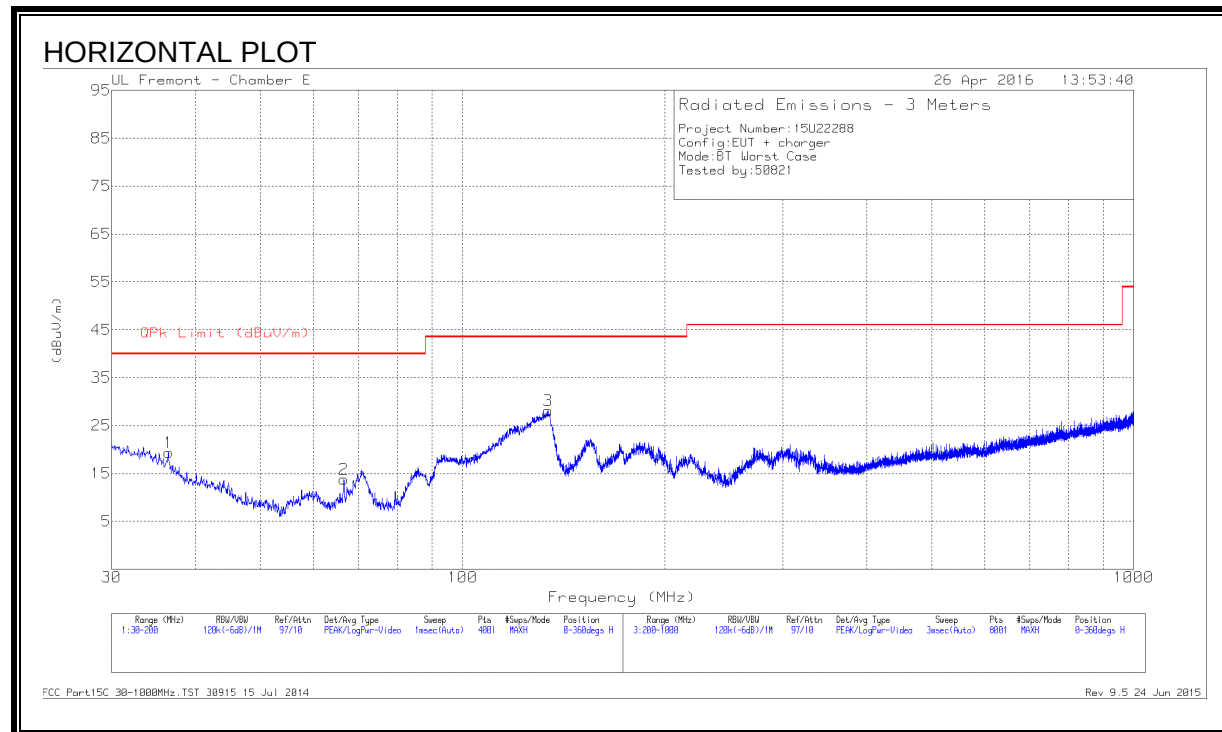
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

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

8.3. WORST-CASE BELOW 1 GHz

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



DATA

Trace Markers

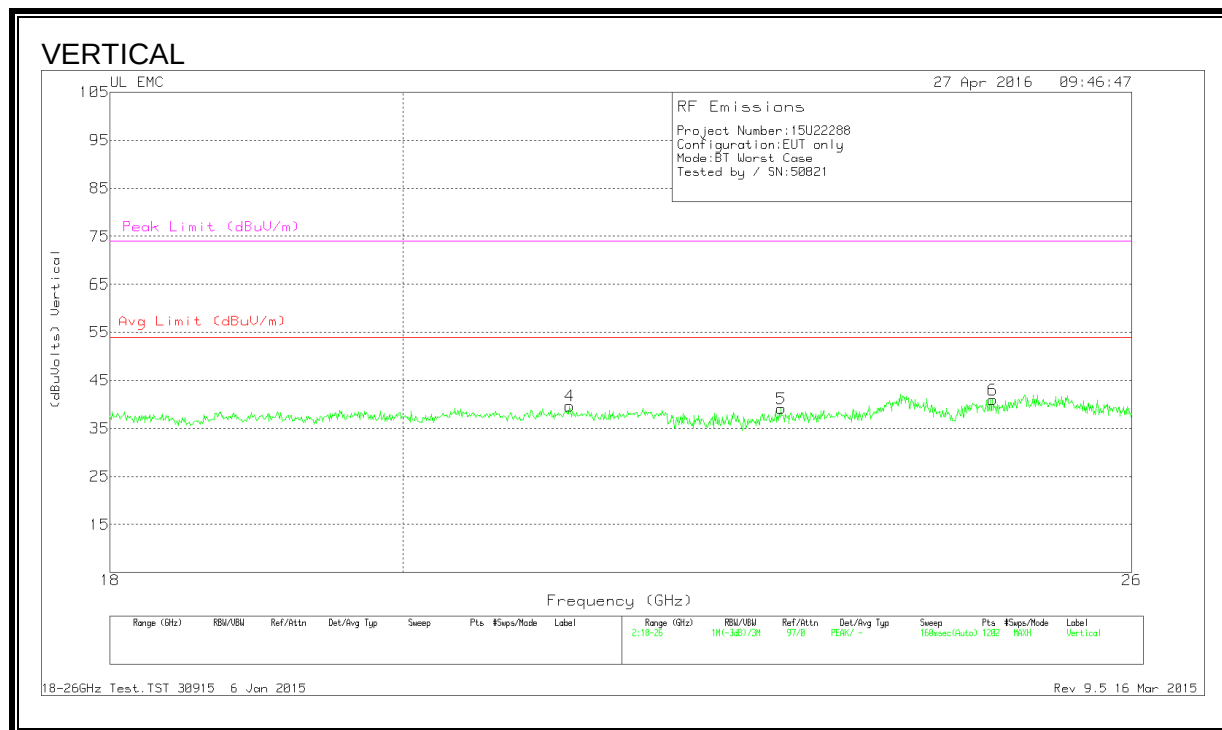
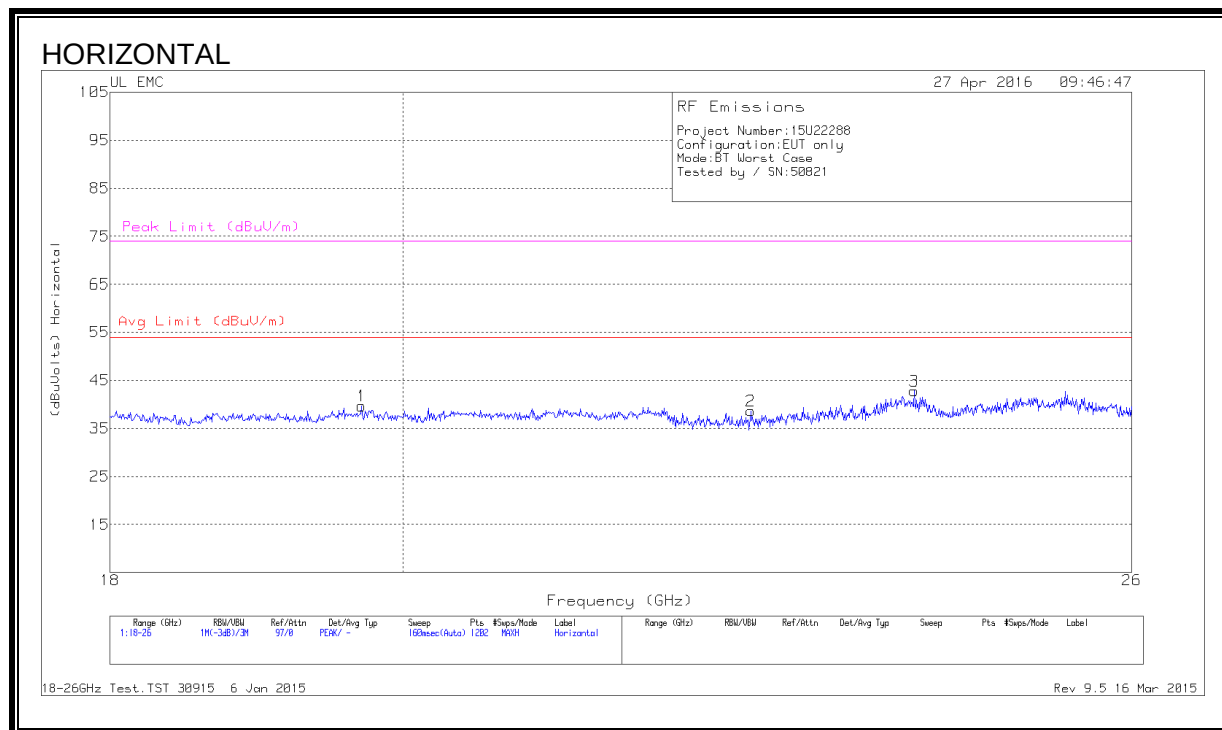
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T243 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 133.9975	41.58	Pk	17.6	-31.1	28.08	43.52	-15.44	0-360	201	H
5	* 136.25	42.51	Pk	17.5	-31.1	28.91	43.52	-14.61	0-360	100	V
1	36.46	30.92	Pk	20.3	-31.8	19.42	40	-20.58	0-360	201	H
2	66.5925	33.39	Pk	11.9	-31.5	13.79	40	-26.21	0-360	201	H
4	66.635	42.5	Pk	11.9	-31.5	22.9	40	-17.1	0-360	100	V
6	202.5	33.55	Pk	15.7	-30.7	18.55	43.52	-24.97	0-360	99	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

8.4. WORST-CASE ABOVE 18 GHz

SPURIOUS EMISSIONS 18 TO 26 GHz (WORST-CASE CONFIGURATION)



Data

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T477 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	19.705	41.57	Pk	32.8	-25.2	-9.5	39.67	54	-14.33	74	-34.33
2	22.669	39.77	Pk	33.4	-25	-9.5	38.67	54	-15.33	74	-35.33
3	24.042	43.23	Pk	33.6	-24.5	-9.5	42.83	54	-11.17	74	-31.17
4	21.237	41.47	Pk	33	-25.3	-9.5	39.67	54	-14.33	74	-34.33
5	22.916	40.67	Pk	33.2	-25.2	-9.5	39.17	54	-14.83	74	-34.83
6	24.728	41.2	Pk	33.9	-24.6	-9.5	41	54	-13.00	74	-33.00

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

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

WORST EMISSIONS

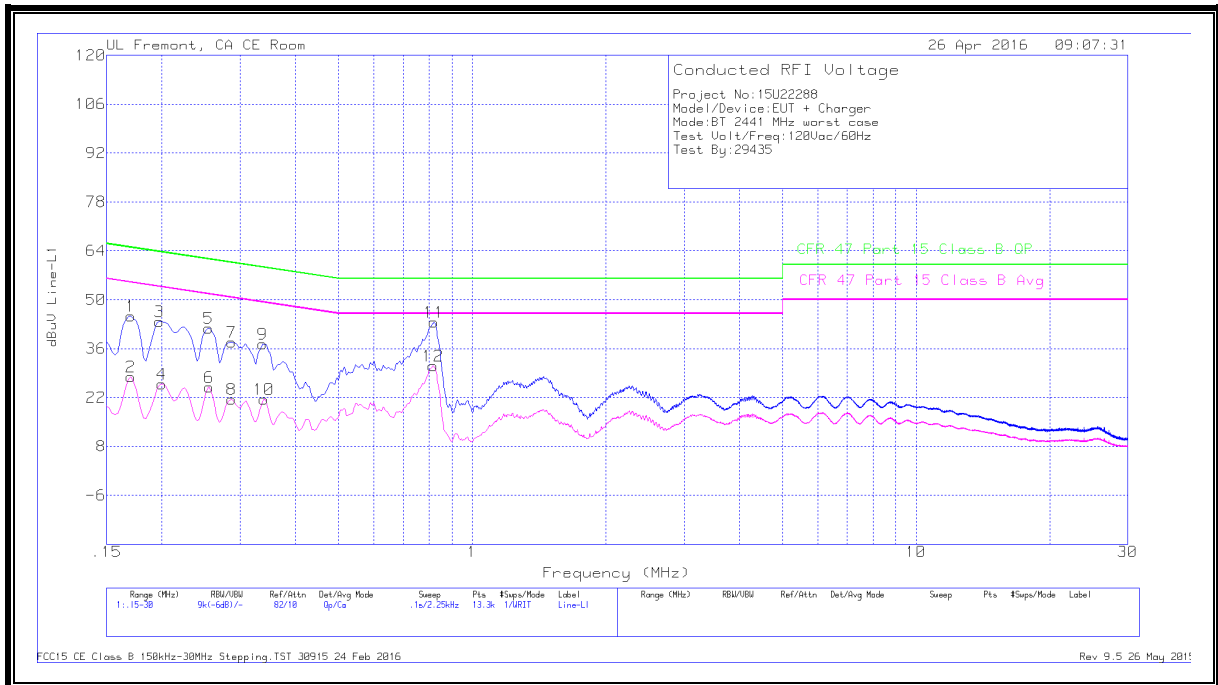
Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1	LC Cables 1&3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
1	.17025	34.08	Qp	1.2	0	10.1	45.38	64.95	-19.57	-	-
2	.17025	16.63	Ca	1.2	0	10.1	27.93	-	-	54.95	-27.02
3	.19725	32.7	Qp	1	0	10.1	43.8	63.73	-19.93	-	-
4	.1995	14.89	Ca	.9	0	10.1	25.89	-	-	53.63	-27.74
5	.25463	30.97	Qp	.7	0	10.1	41.77	61.6	-19.83	-	-
6	.25575	14.15	Ca	.7	0	10.1	24.95	-	-	51.57	-26.62
7	.28725	27.17	Qp	.6	0	10.1	37.87	60.6	-22.73	-	-
8	.28725	10.73	Ca	.6	0	10.1	21.43	-	-	50.6	-29.17
9	.33675	26.66	Qp	.5	0	10.1	37.26	59.28	-22.02	-	-
10	.339	10.92	Ca	.5	0	10.1	21.52	-	-	49.23	-27.71
11	.8205	33.12	Qp	.3	0	10.1	43.52	56	-12.48	-	-
12	.816	20.67	Ca	.3	0	10.1	31.07	-	-	46	-14.93

Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2	LC Cables 2&3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
13	.17025	34.56	Qp	1.2	0	10.1	45.86	64.95	-19.09	-	-
14	.17025	17.16	Ca	1.2	0	10.1	28.46	-	-	54.95	-26.49
15	.1995	30.76	Qp	1	0	10.1	41.86	63.63	-21.77	-	-
16	.20175	13.53	Ca	1	0	10.1	24.63	-	-	53.54	-28.91
17	.2535	30.99	Qp	.7	0	10.1	41.79	61.64	-19.85	-	-
18	.2535	15.04	Ca	.7	0	10.1	25.84	-	-	51.64	-25.8
19	.28725	27.07	Qp	.6	0	10.1	37.77	60.6	-22.83	-	-
20	.28725	11.64	Ca	.6	0	10.1	22.34	-	-	50.6	-28.26
21	.33675	25.86	Qp	.5	0	10.1	36.46	59.28	-22.82	-	-
22	.339	11.26	Ca	.5	0	10.1	21.86	-	-	49.23	-27.37
23	.80925	32.71	Qp	.3	0	10.1	43.11	56	-12.89	-	-
24	.8115	22.71	Ca	.3	0	10.1	33.11	-	-	46	-12.89

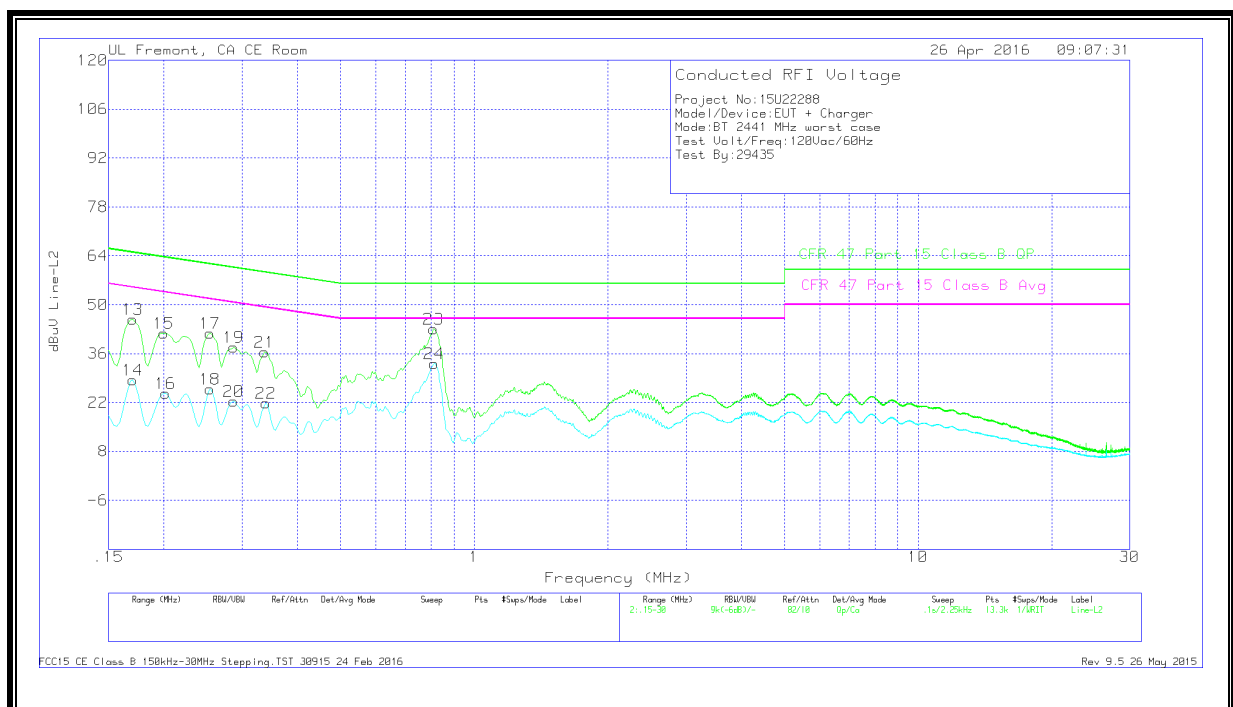
Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 1 RESULTS



LINE 2 RESULTS



9.2. EUT POWERED BY HOST PC VIA USB CABLE

WORST EMISSIONS

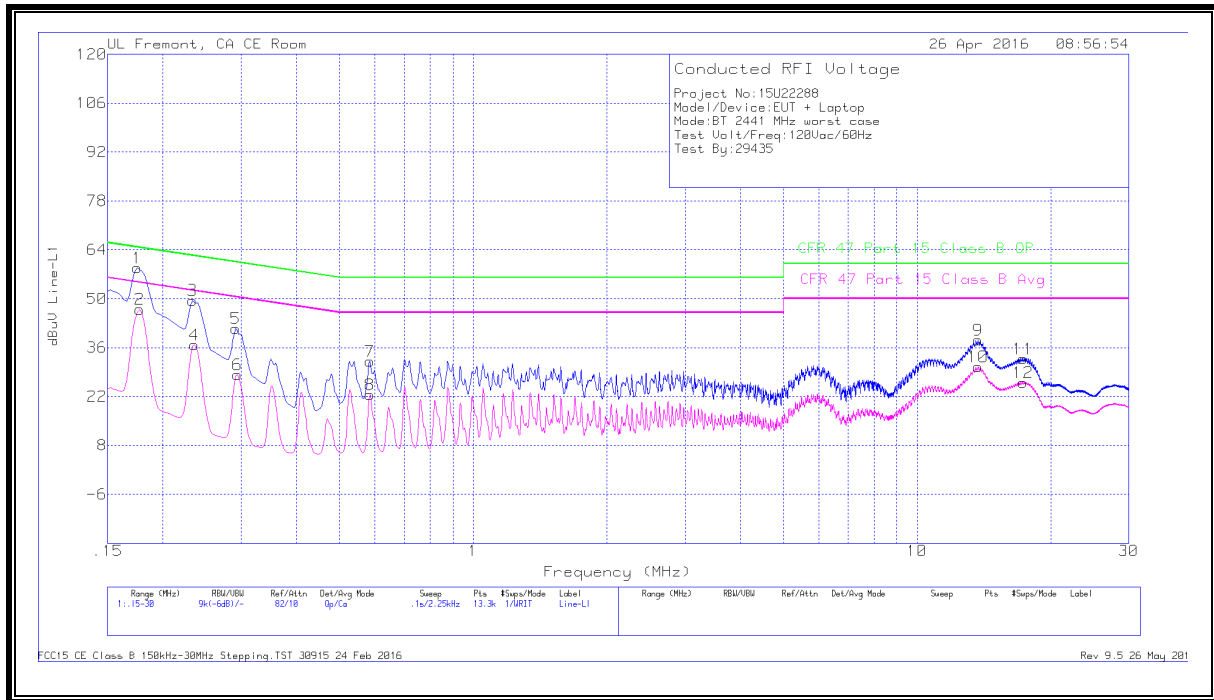
Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1	LC Cables 1&3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
1	.17475	47.69	Qp	1.1	0	10.1	58.89	64.73	-5.84	-	-
2	.177	35.76	Ca	1.1	0	10.1	46.96	-	-	54.63	-7.67
3	.23325	38.66	Qp	.8	0	10.1	49.56	62.33	-12.77	-	-
4	.2355	25.95	Ca	.8	0	10.1	36.85	-	-	52.25	-15.4
5	.29175	30.75	Qp	.6	0	10.1	41.45	60.47	-19.02	-	-
6	.294	17.64	Ca	.6	0	10.1	28.34	-	-	50.41	-22.07
7	.58425	21.67	Qp	.3	0	10.1	32.07	56	-23.93	-	-
8	.58425	12.12	Ca	.3	0	10.1	22.52	-	-	46	-23.48
9	13.71975	27.65	Qp	.2	.2	10.2	38.25	60	-21.75	-	-
10	13.71975	19.89	Ca	.2	.2	10.2	30.49	-	-	50	-19.51
11	17.3175	22.02	Qp	.3	.2	10.3	32.82	60	-27.18	-	-
12	17.31525	15.29	Ca	.3	.2	10.3	26.09	-	-	50	-23.91

Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2	LC Cables 2&3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
13	.17475	47.98	Qp	1.2	0	10.1	59.28	64.73	-5.45	-	-
14	.177	35.85	Ca	1.2	0	10.1	47.15	-	-	54.63	-7.48
15	.23325	38.23	Qp	.8	0	10.1	49.13	62.33	-13.2	-	-
16	.2355	27.69	Ca	.8	0	10.1	38.59	-	-	52.25	-13.66
17	.29175	31.28	Qp	.6	0	10.1	41.98	60.47	-18.49	-	-
18	.29175	21.74	Ca	.6	0	10.1	32.44	-	-	50.47	-18.03
19	.6405	25.65	Qp	.3	0	10.1	36.05	56	-19.95	-	-
20	.64275	18.78	Ca	.3	0	10.1	29.18	-	-	46	-16.82
21	14.01675	25.43	Qp	.2	.2	10.2	36.03	60	-23.97	-	-
22	14.03925	19.13	Ca	.2	.2	10.2	29.73	-	-	50	-20.27
23	18.6405	23.49	Qp	.3	.2	10.3	34.29	60	-25.71	-	-
24	18.6405	16.79	Ca	.3	.2	10.3	27.59	-	-	50	-22.41

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 1 RESULTS



LINE 2 RESULTS

