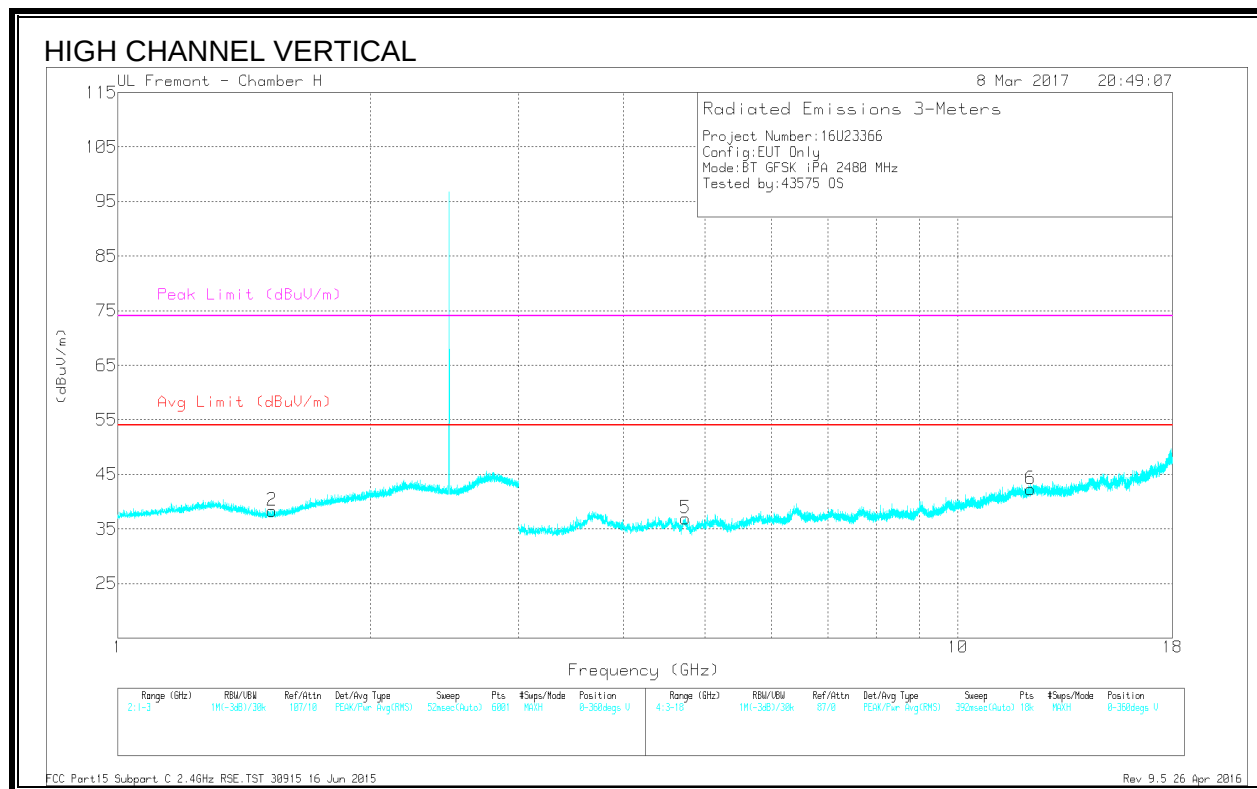
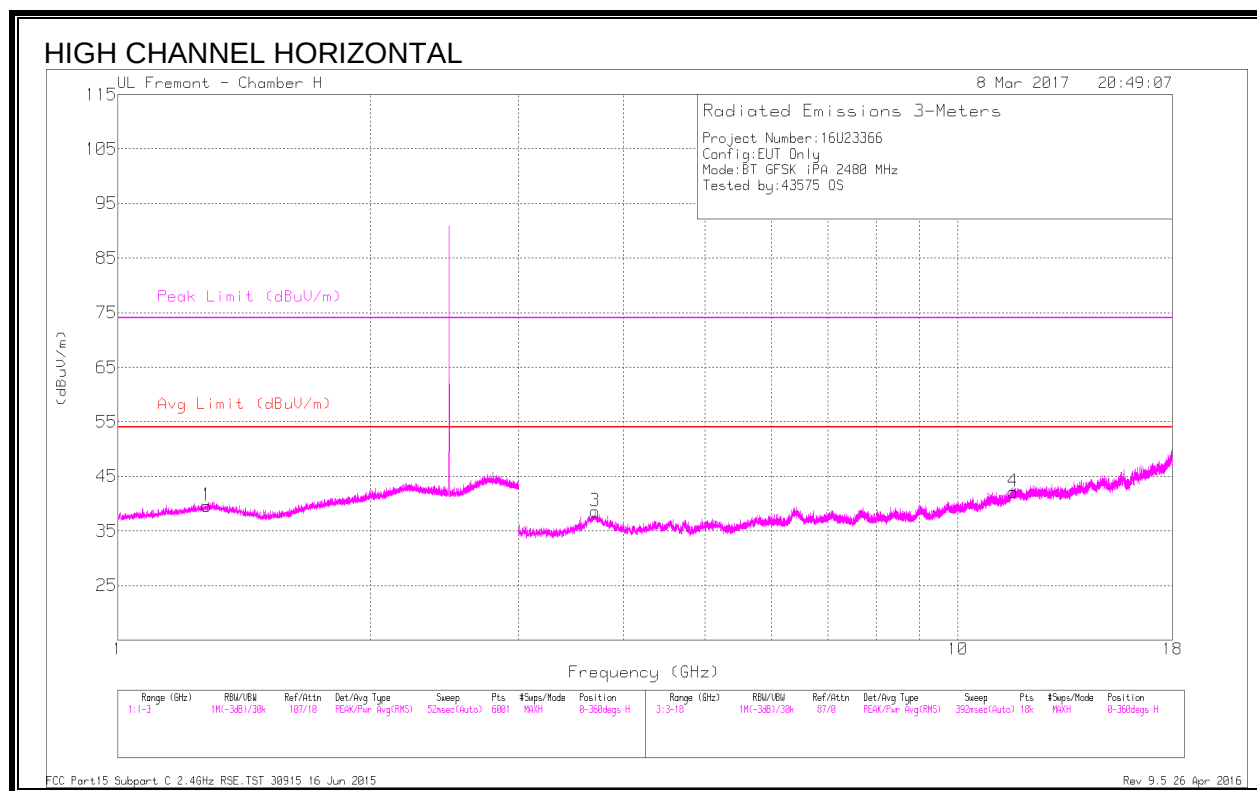




Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Ampl/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.276	43.83	PKFH	29.5	-27.7	45.63	-	-	74	-28.37	192	321	H
	* 1.279	32.49	VA1T	29.5	-27.7	34.29	54	-19.71	-	-	192	321	H
2	* 1.529	45.08	PKFH	28	-28	45.08	-	-	74	-28.92	249	309	V
	* 1.53	34.07	VA1T	28	-28	34.07	54	-19.93	-	-	249	309	V
3	* 3.7	45.2	PKFH	34.9	-35.9	44.2	-	-	74	-29.8	258	164	H
	* 3.7	33.82	VA1T	34.9	-35.9	32.82	54	-21.18	-	-	258	164	H
4	* 11.627	36.43	PKFH	39	-26.4	49.03	-	-	74	-24.97	357	331	H
	* 11.627	24.63	VA1T	39	-26.4	37.23	54	-16.77	-	-	357	331	H
5	* 4.737	43.14	PKFH	34	-34.7	42.44	-	-	74	-31.56	218	330	V
	* 4.738	31.86	VA1T	34	-34.7	31.16	54	-22.84	-	-	218	330	V
6	* 12.205	36.17	PKFH	39.3	-26.4	49.07	-	-	74	-24.93	276	314	V
	* 12.205	24.35	VA1T	39.3	-26.4	37.25	54	-16.75	-	-	276	314	V

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

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

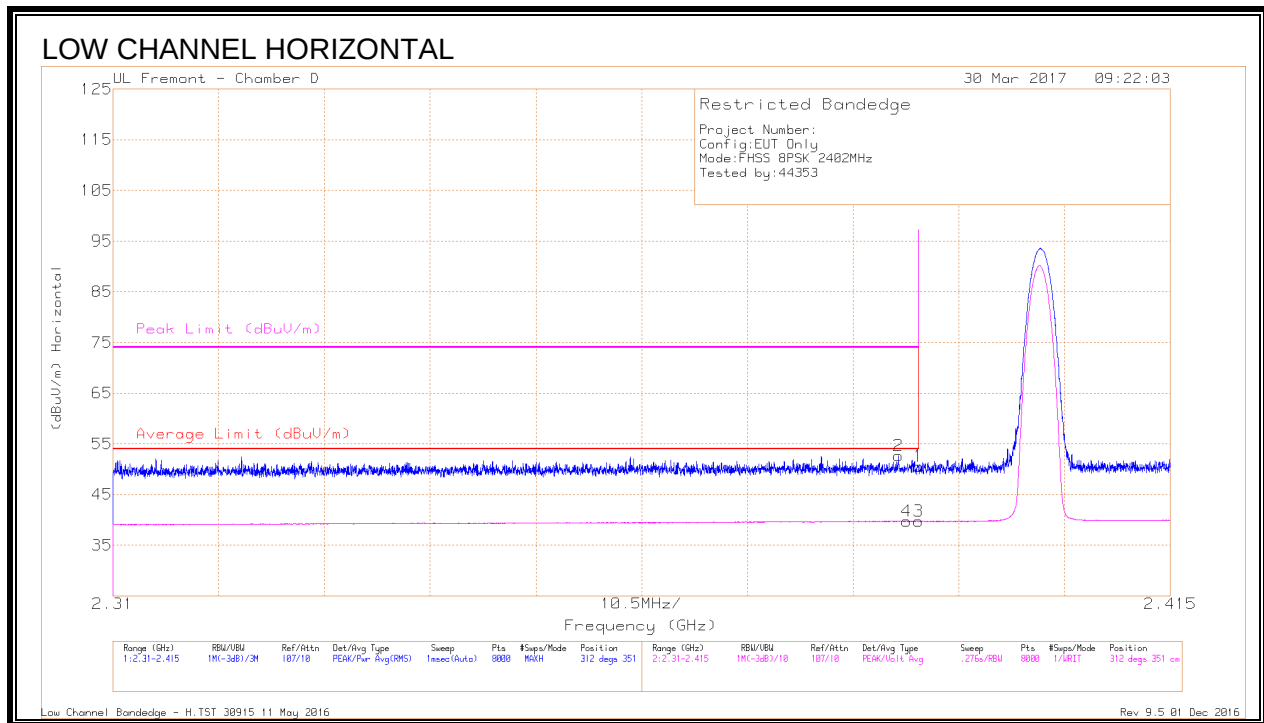
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

FCC Part15 Subpart C 2.4GHz RSE.TST 30915 16 Jun 2015

Rev 9.5 26 Apr 2016

9.5. UAT 1, Plow ENHANCED DATA RATE 8PSK MODULATION

9.5.1. RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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	39.3	Pk	32	-20.7	50.6	-	-	74	-23.4	312	351	H
2	* 2.388	41.43	Pk	32	-20.8	52.63	-	-	74	-21.37	312	351	H
3	* 2.39	28.39	VA1T	32	-20.7	39.69	54	-14.31	-	-	312	351	H
4	* 2.389	28.53	VA1T	32	-20.8	39.73	54	-14.27	-	-	312	351	H

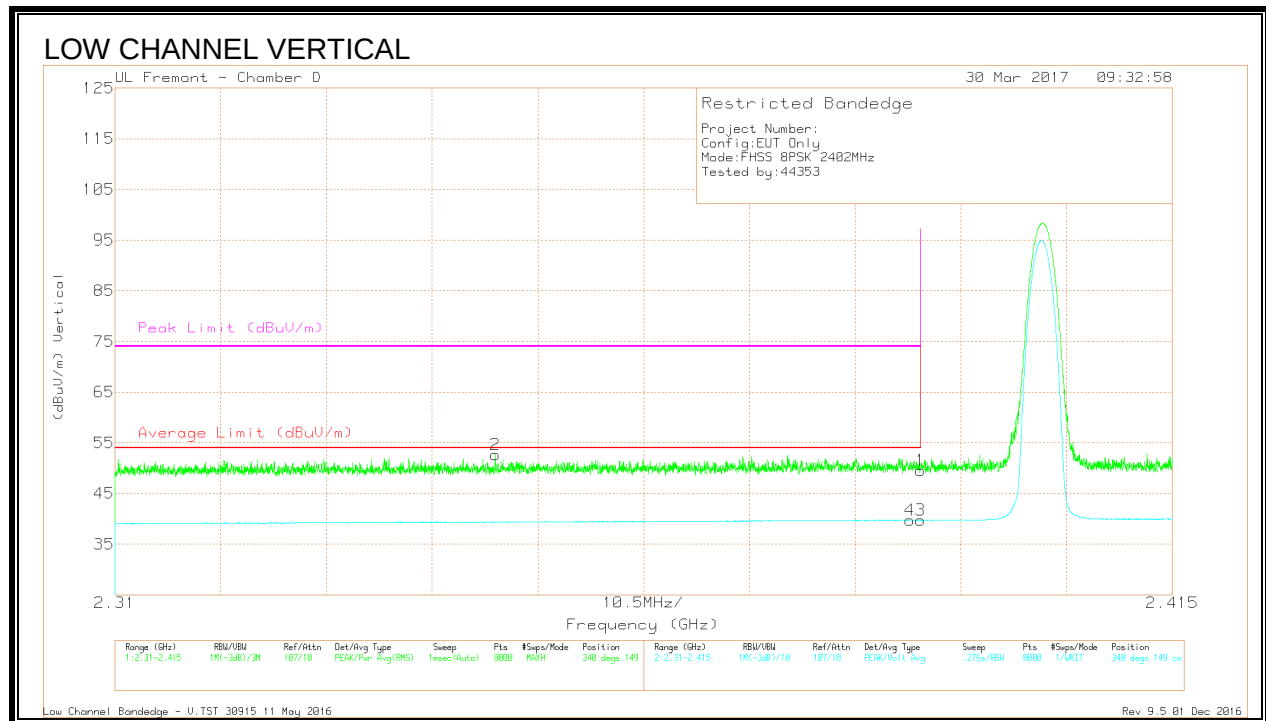
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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	38.26	Pk	32	-20.7	49.56	-	-	74	-24.44	340	149	V
2	* 2.348	41.83	Pk	31.7	-20.9	52.63	-	-	74	-21.37	340	149	V
3	* 2.39	28.4	VA1T	32	-20.7	39.7	54	-14.3	-	-	340	149	V
4	* 2.389	28.56	VA1T	32	-20.8	39.76	54	-14.24	-	-	340	149	V

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

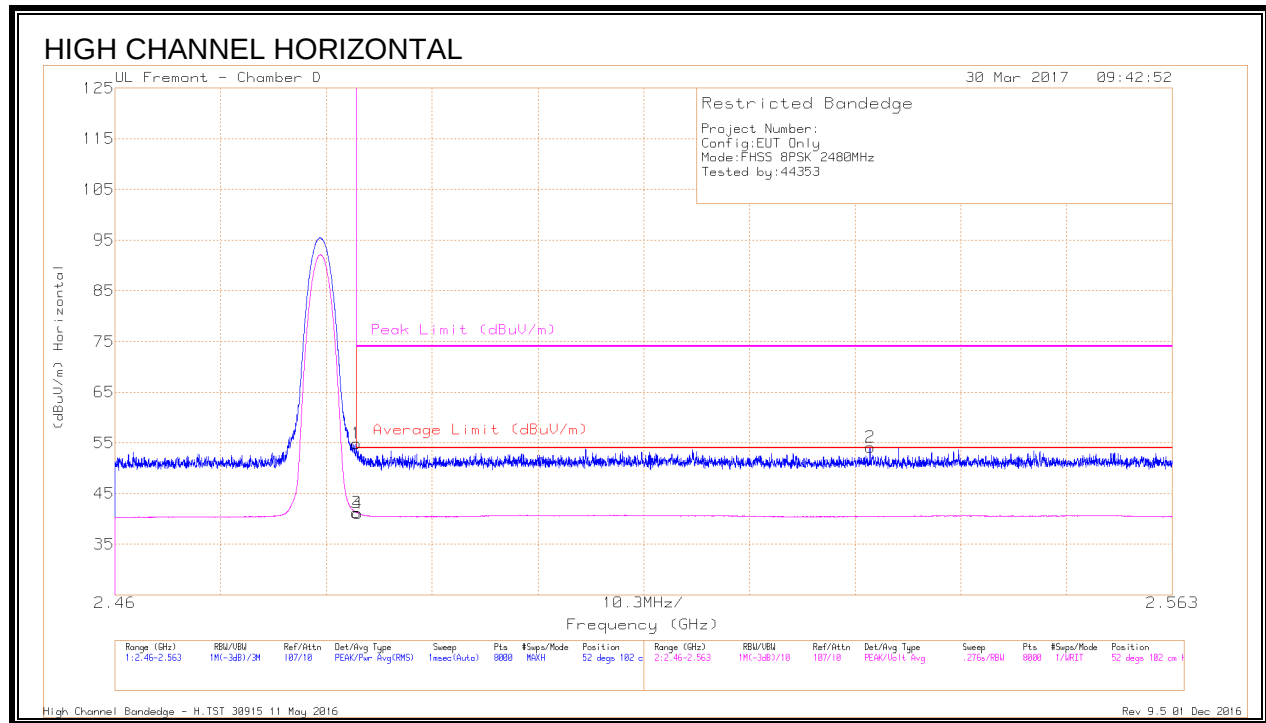
Pk - Peak detector

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

Low Channel Bandedge - V.TST 30915 11 May 2016

Rev 9.5 01 Dec 2016

9.5.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T862 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarit y
1	* 2.484	43.23	Pk	32.5	-20.8	54.93	-	-	74	-19.07	52	102	H
3	* 2.484	29.58	VA1T	32.5	-20.8	41.28	54	-12.72	-	-	52	102	H
4	* 2.484	29.46	VA1T	32.5	-20.8	41.16	54	-12.84	-	-	52	102	H
2	2.534	42.35	Pk	32.5	-20.7	54.15	-	-	74	-19.85	52	102	H

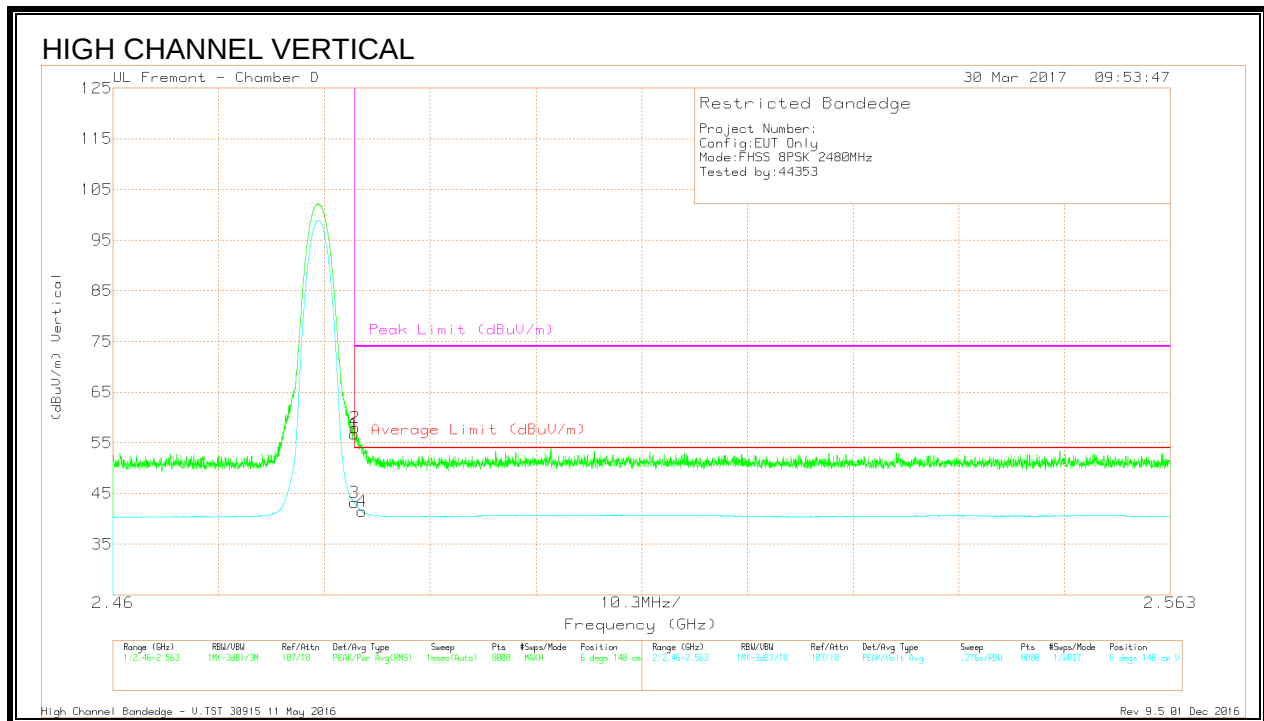
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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)	Polarization
1	* 2.484	45.02	Pk	32.5	-20.8	56.72	-	-	74	-17.28	6	140	V
2	* 2.484	46.27	Pk	32.5	-20.8	57.97	-	-	74	-16.03	6	140	V
3	* 2.484	31.51	VA1T	32.5	-20.8	43.21	54	-10.79	-	-	6	140	V
4	* 2.484	29.77	VA1T	32.5	-20.8	41.47	54	-12.53	-	-	6	140	V

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

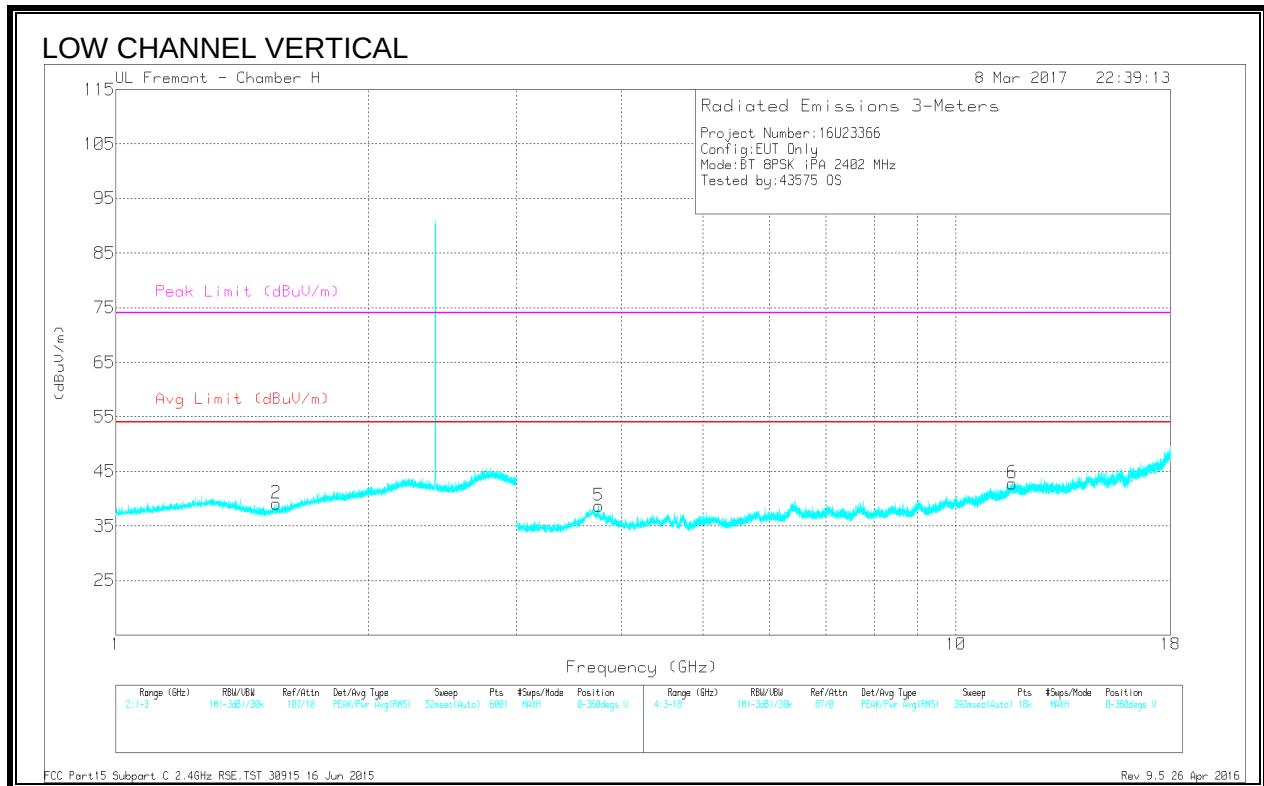
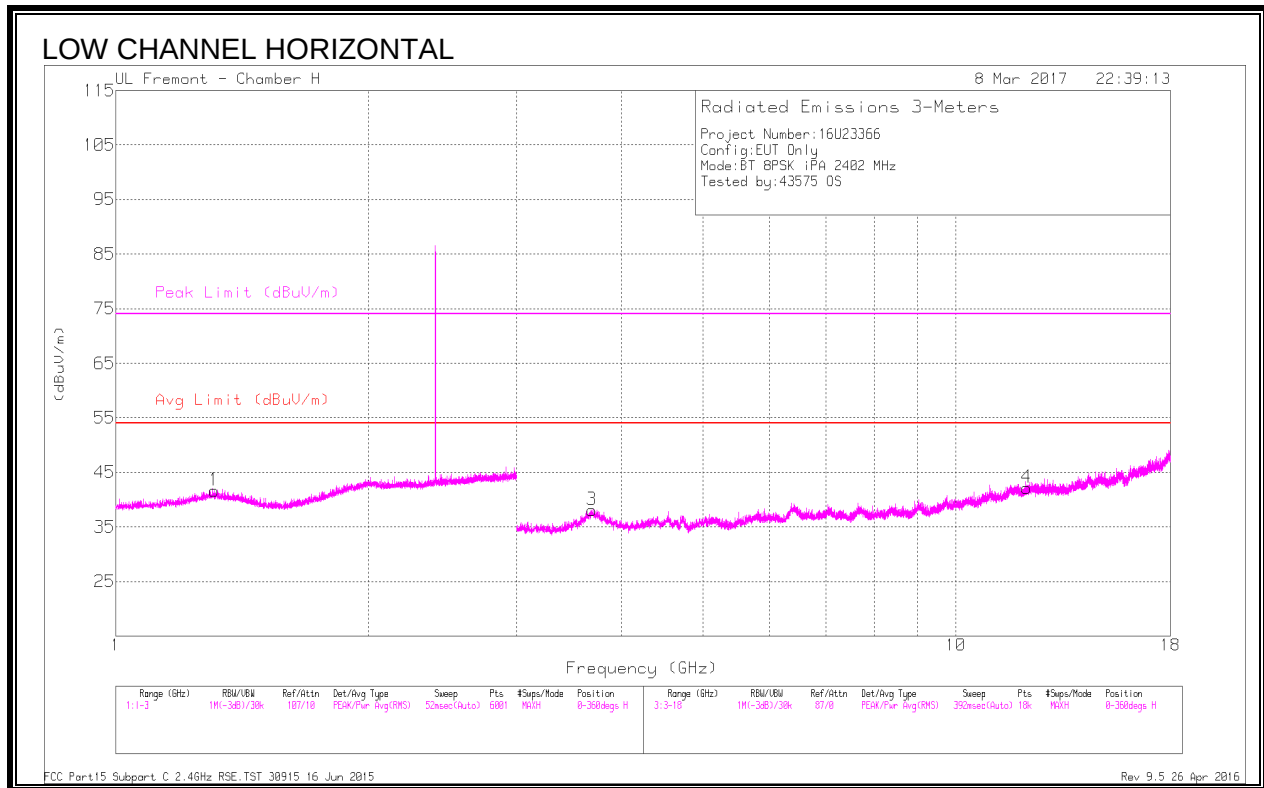
Pk - Peak detector

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

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9.5.3. HARMONICS AND SPURIOUS EMISSIONS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/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	* 1.309	45.25	PKFH	29.7	-27.8	47.15	-	-	74	-26.85	4	149	H
	* 1.311	33.8	VA1T	29.7	-27.8	35.7	54	-18.3	-	-	4	149	H
2	* 1.554	44.68	PKFH	27.9	-28	44.58	-	-	74	-29.42	203	168	V
	* 1.552	32.93	VA1T	27.9	-28	32.83	54	-21.17	-	-	203	168	V
3	* 3.687	45.42	PKFH	34.9	-36	44.32	-	-	74	-29.68	247	321	H
	* 3.686	33.69	VA1T	34.9	-36	32.59	54	-21.41	-	-	247	321	H
4	* 12.135	35.65	PKFH	39.3	-26.1	48.85	-	-	74	-25.15	216	260	H
	* 12.138	23.7	VA1T	39.3	-26.2	36.8	54	-17.2	-	-	216	260	H
5	* 3.76	44.59	PKFH	34.4	-35.5	43.49	-	-	74	-30.51	249	359	V
	* 3.76	33.55	VA1T	34.4	-35.5	32.45	54	-21.55	-	-	249	359	V
6	* 11.673	35.83	PKFH	39	-26.2	48.63	-	-	74	-25.37	169	131	V
	* 11.672	24.36	VA1T	39	-26.1	37.26	54	-16.74	-	-	169	131	V

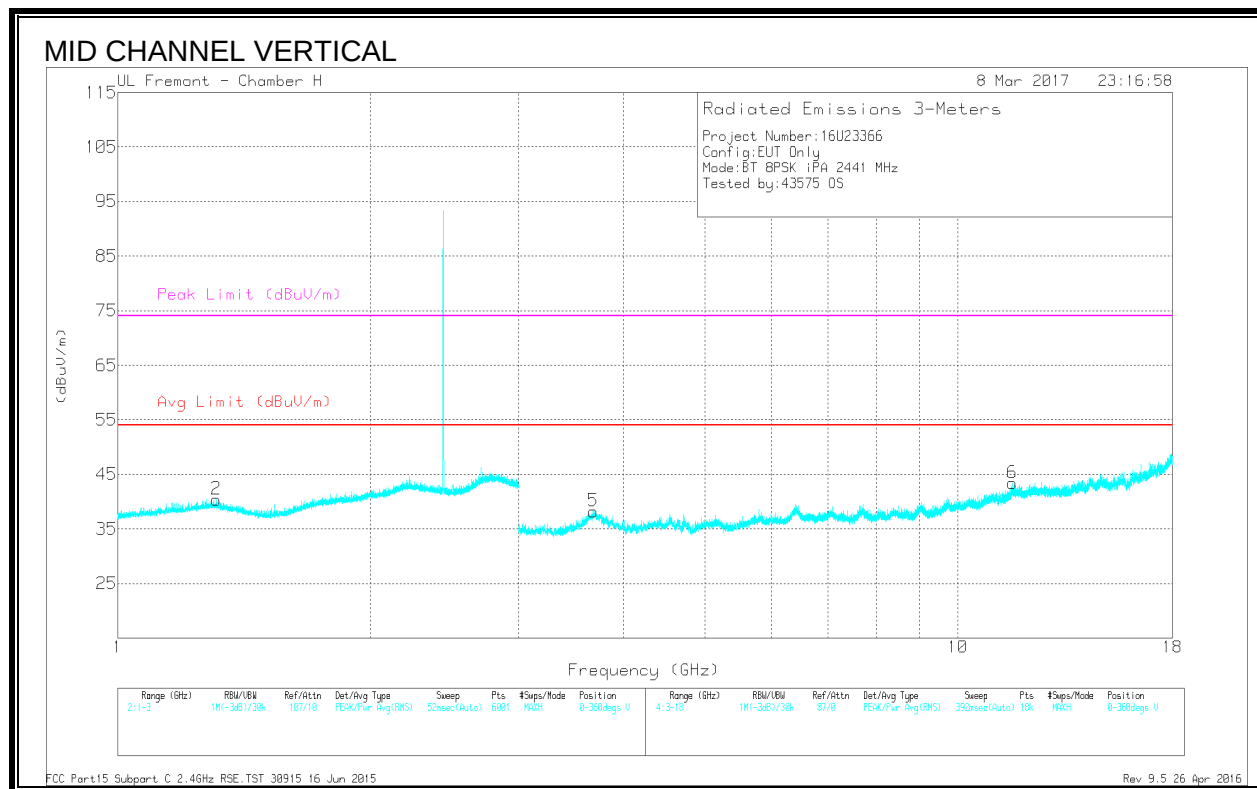
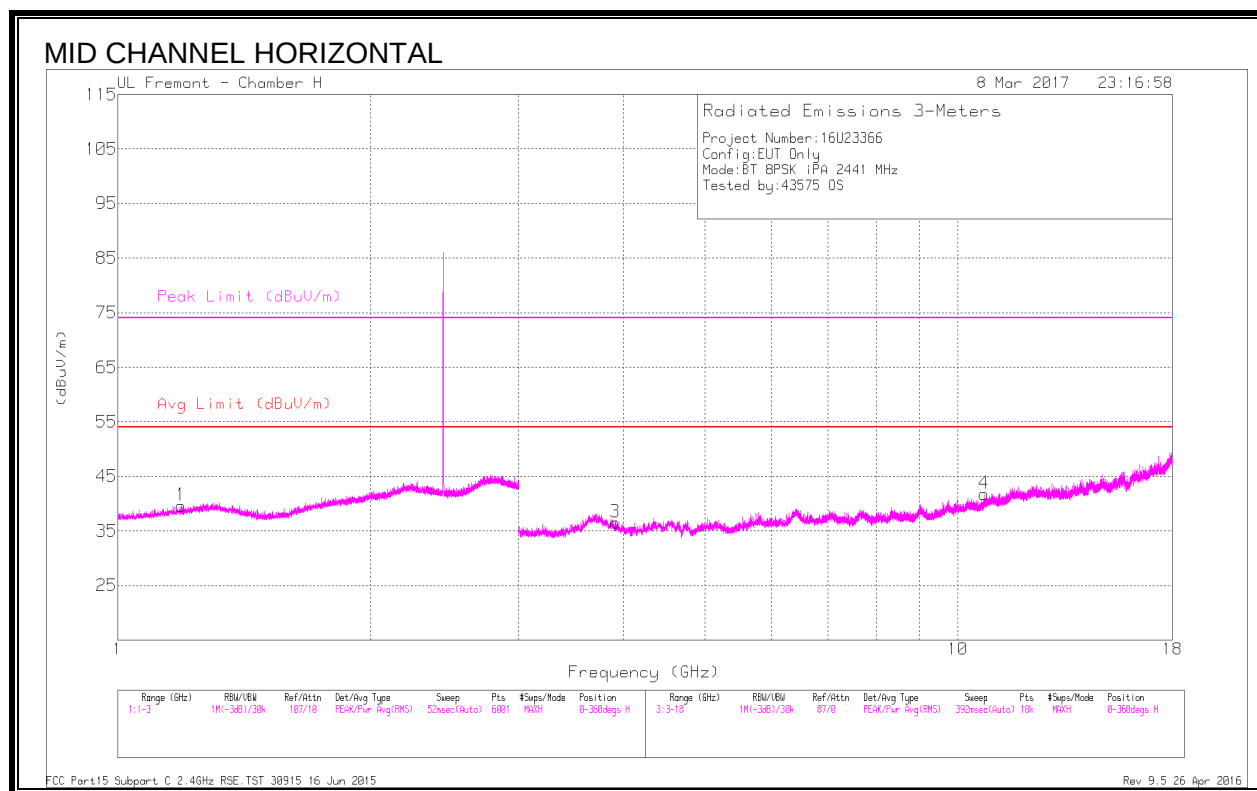
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/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	* 1.189	45.22	PKFH	28.6	-27.6	46.22	-	-	74	-27.78	104	387	H
	* 1.191	33.66	VA1T	28.6	-27.6	34.66	54	-19.34	-	-	104	387	H
2	* 1.312	43.63	PKFH	29.7	-27.8	45.53	-	-	74	-28.47	66	147	V
	* 1.31	32.33	VA1T	29.7	-27.8	34.23	54	-19.77	-	-	66	147	V
3	* 3.915	45.06	PKFH	33.6	-35.4	43.26	-	-	74	-30.74	207	238	H
	* 3.915	32.54	VA1T	33.6	-35.4	30.74	54	-23.26	-	-	207	238	H
4	* 10.745	37.12	PKFH	38.1	-28	47.22	-	-	74	-26.78	345	118	H
	* 10.747	25.51	VA1T	38.1	-28	35.61	54	-18.39	-	-	345	118	H
5	* 3.684	45.22	PKFH	34.9	-36	44.12	-	-	74	-29.88	11	135	V
	* 3.685	33.67	VA1T	34.9	-36	32.57	54	-21.43	-	-	11	135	V
6	* 11.612	35.88	PKFH	39	-26.2	48.68	-	-	74	-25.32	341	241	V
	* 11.612	24.33	VA1T	39	-26.2	37.13	54	-16.87	-	-	341	241	V

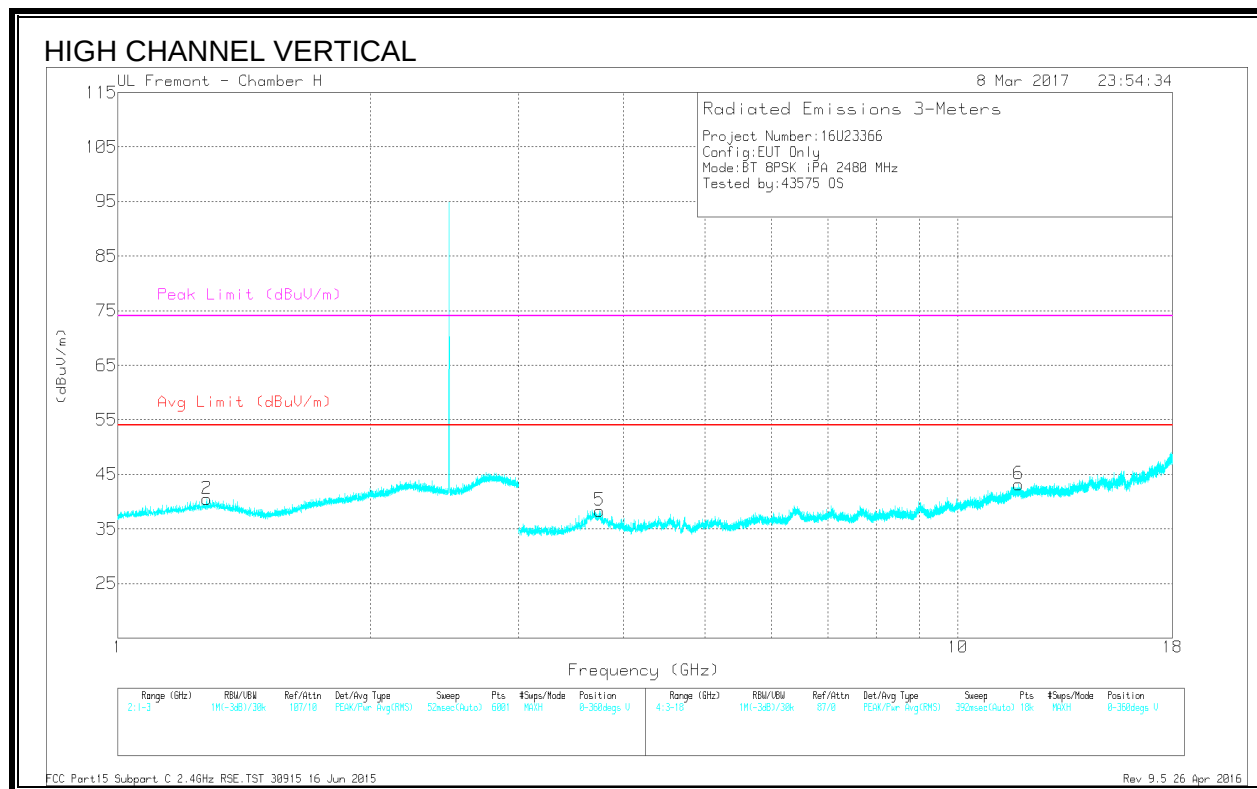
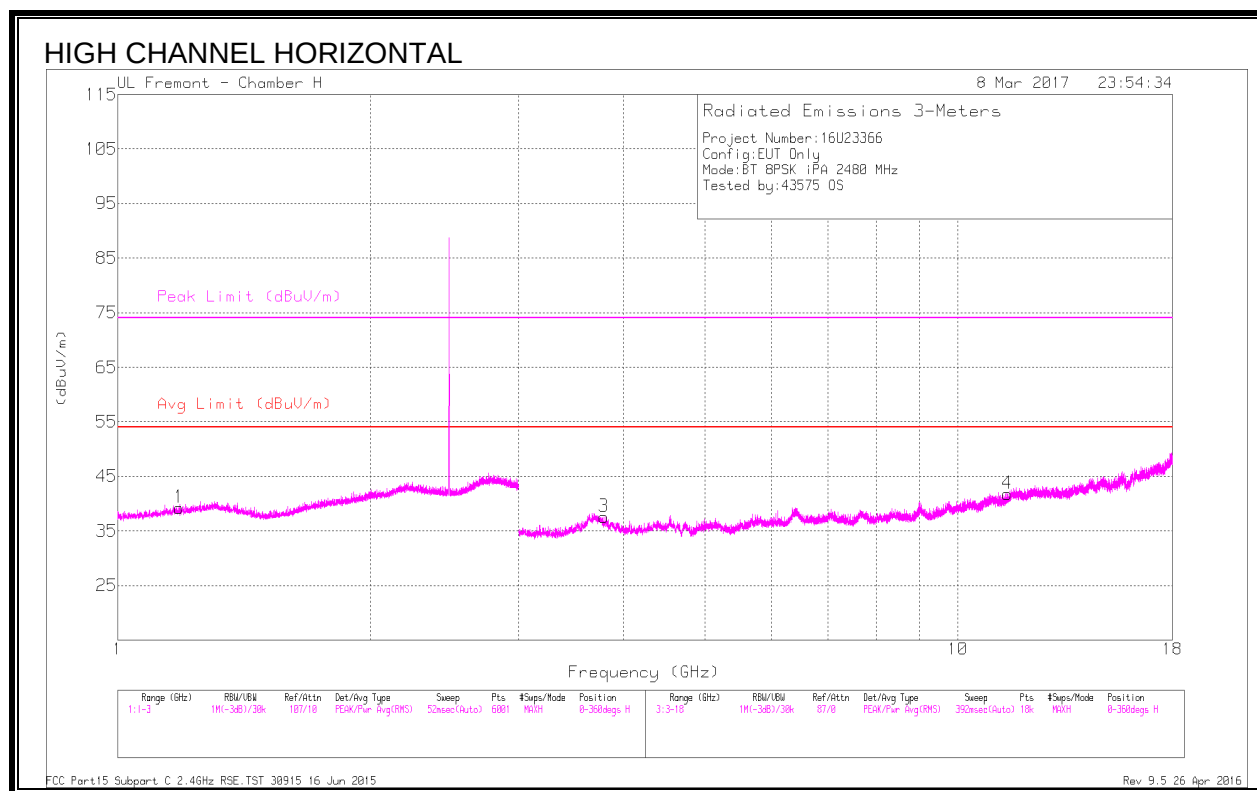
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/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	* 1.183	45.02	PKFH	28.5	-27.6	45.92	-	-	74	-28.08	7	245	H
	* 1.182	33.66	VA1T	28.5	-27.6	34.56	54	-19.44	-	-	7	245	H
2	* 1.275	43.36	PKFH	29.5	-27.7	45.16	-	-	74	-28.84	170	159	V
	* 1.278	32.48	VA1T	29.5	-27.7	34.28	54	-19.72	-	-	170	159	V
3	* 3.794	44.53	PKFH	34.1	-35.5	43.13	-	-	74	-30.87	137	329	H
	* 3.793	33.23	VA1T	34.1	-35.6	31.73	54	-22.27	-	-	137	329	H
4	* 11.451	35.03	PKFH	38.7	-26.7	47.03	-	-	74	-26.97	173	304	H
	* 11.449	24.22	VA1T	38.7	-26.7	36.22	54	-17.78	-	-	173	304	H
5	* 3.744	44.79	PKFH	34.5	-35.7	43.59	-	-	74	-30.41	262	387	V
	* 3.745	33.68	VA1T	34.5	-35.7	32.48	54	-21.52	-	-	262	387	V
6	* 11.807	35.2	PKFH	39.1	-26.3	48	-	-	74	-26	327	333	V
	* 11.806	24.33	VA1T	39.1	-26.4	37.03	54	-16.97	-	-	327	333	V

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

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

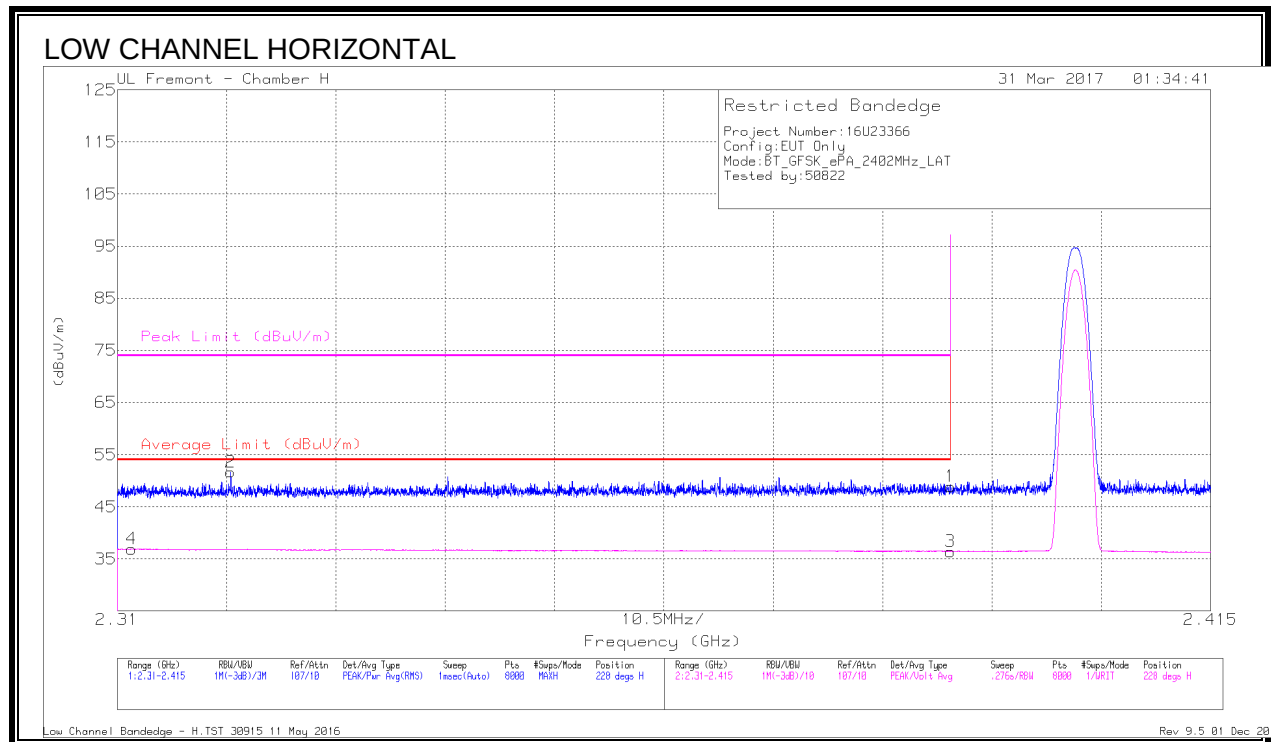
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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9.6. LAT 3, Pmax BASIC DATA RATE GFSK MODULATION

9.6.1. RESTRICTED BANDEGE (LOW CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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
4	* 2.311	33.73	VA1T	31.6	-28.4	36.93	54	-17.07	-	-	228	271	H
2	* 2.321	48.5	Pk	31.6	-28.4	51.7	-	-	74	-22.3	228	271	H
1	* 2.39	45.42	Pk	31.9	-28.4	48.92	-	-	74	-25.08	228	271	H
3	* 2.39	32.97	VA1T	31.9	-28.4	36.47	54	-17.53	-	-	228	271	H

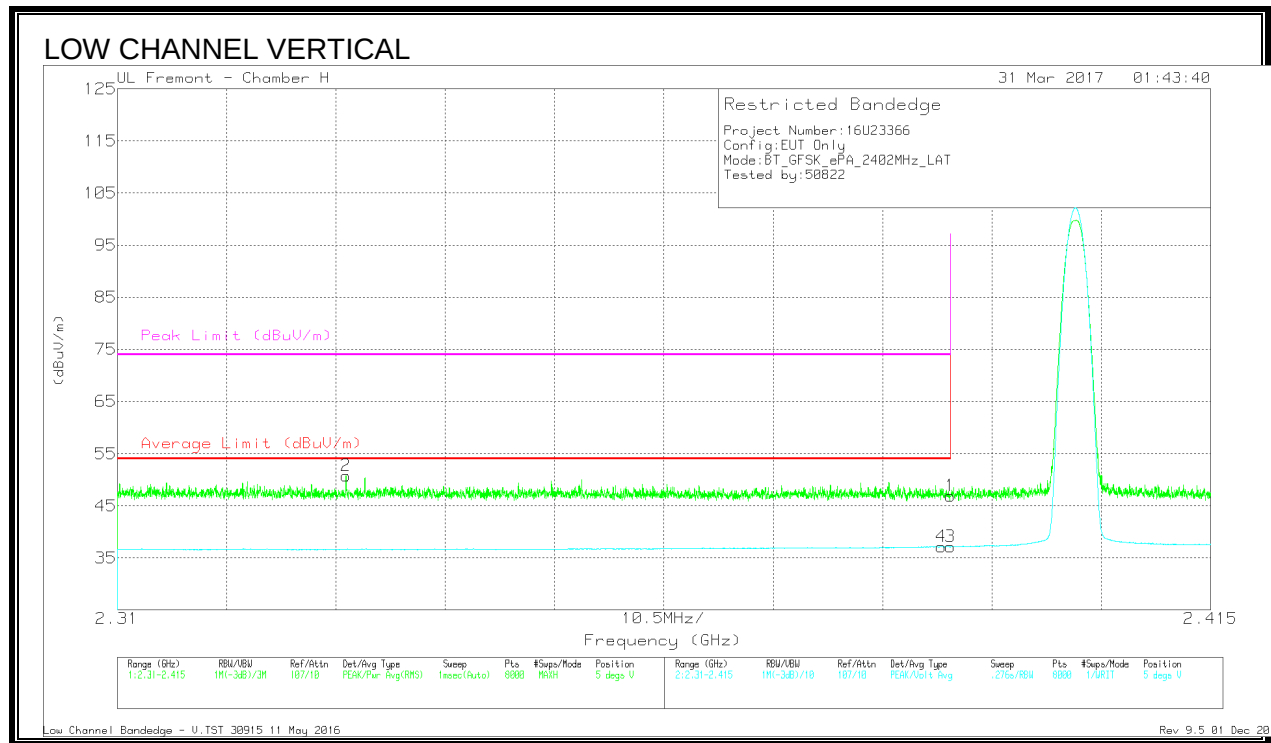
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT120 (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
2	* 2.332	47.49	Pk	31.7	-28.4	50.79	-	-	74	-23.21	5	216	V
4	* 2.389	33.67	VA1T	31.9	-28.4	37.17	54	-16.83	-	-	5	216	V
1	* 2.39	43.43	Pk	31.9	-28.4	46.93	-	-	74	-27.07	5	216	V
3	* 2.39	33.61	VA1T	31.9	-28.4	37.11	54	-16.89	-	-	5	216	V

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

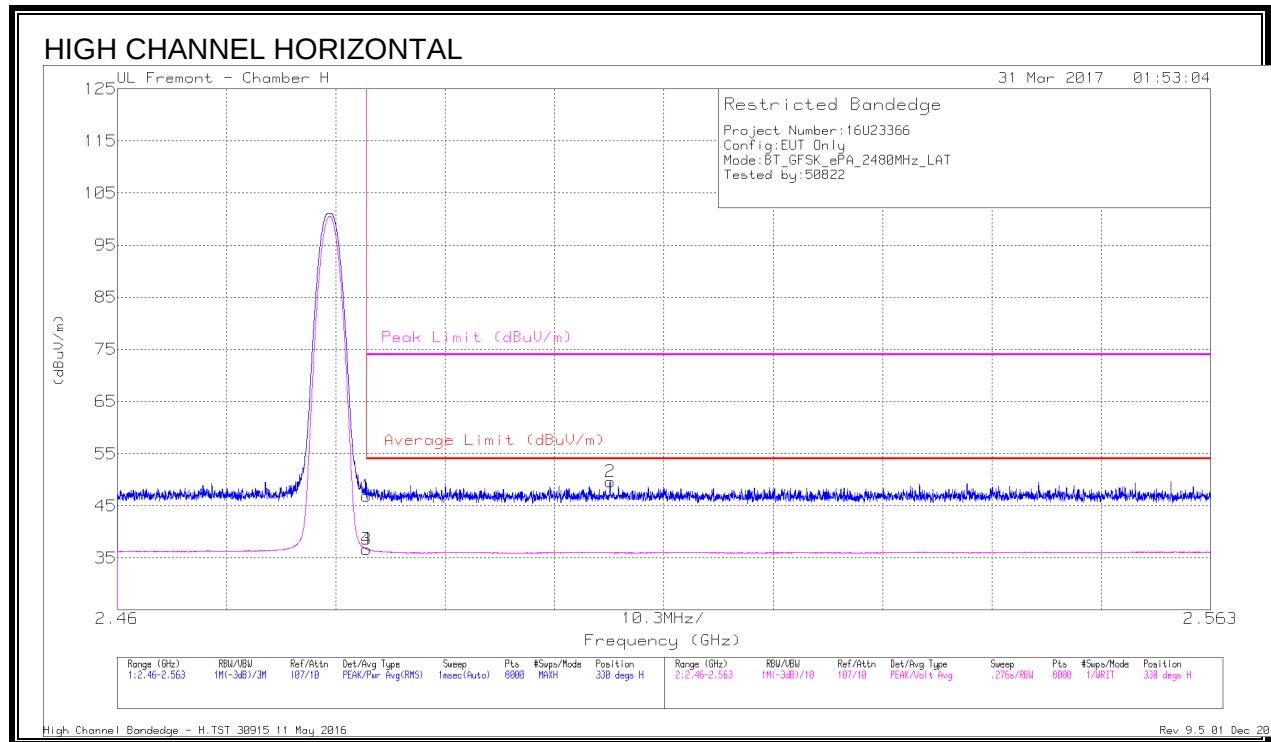
Pk - Peak detector

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

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9.6.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT120 (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	43.16	Pk	32.2	-28.5	46.86	-	-	74	-27.14	330	120	H
3	* 2.484	33.01	VA1T	32.2	-28.5	36.71	54	-17.29	-	-	330	120	H
4	* 2.484	33.01	VA1T	32.2	-28.5	36.71	54	-17.29	-	-	330	120	H
2	2.506	45.97	Pk	32.2	-28.5	49.67	-	-	74	-24.33	330	120	H

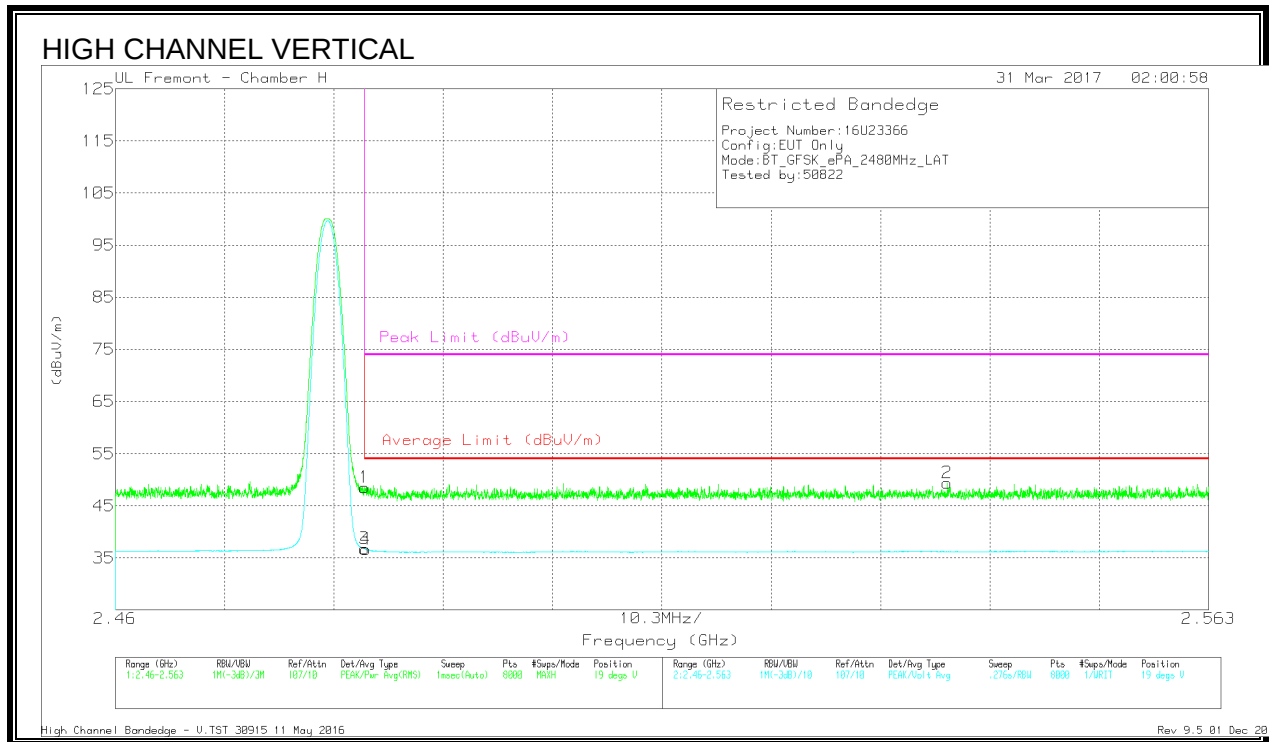
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT120 (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	44.86	Pk	32.2	-28.5	48.56	-	-	74	-25.44	19	232	V
3	* 2.484	33.07	VA1T	32.2	-28.5	36.77	54	-17.23	-	-	19	232	V
4	* 2.484	32.97	VA1T	32.2	-28.5	36.67	54	-17.33	-	-	19	232	V
2	2.538	45.7	Pk	32.2	-28.5	49.4	-	-	74	-24.6	19	232	V

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

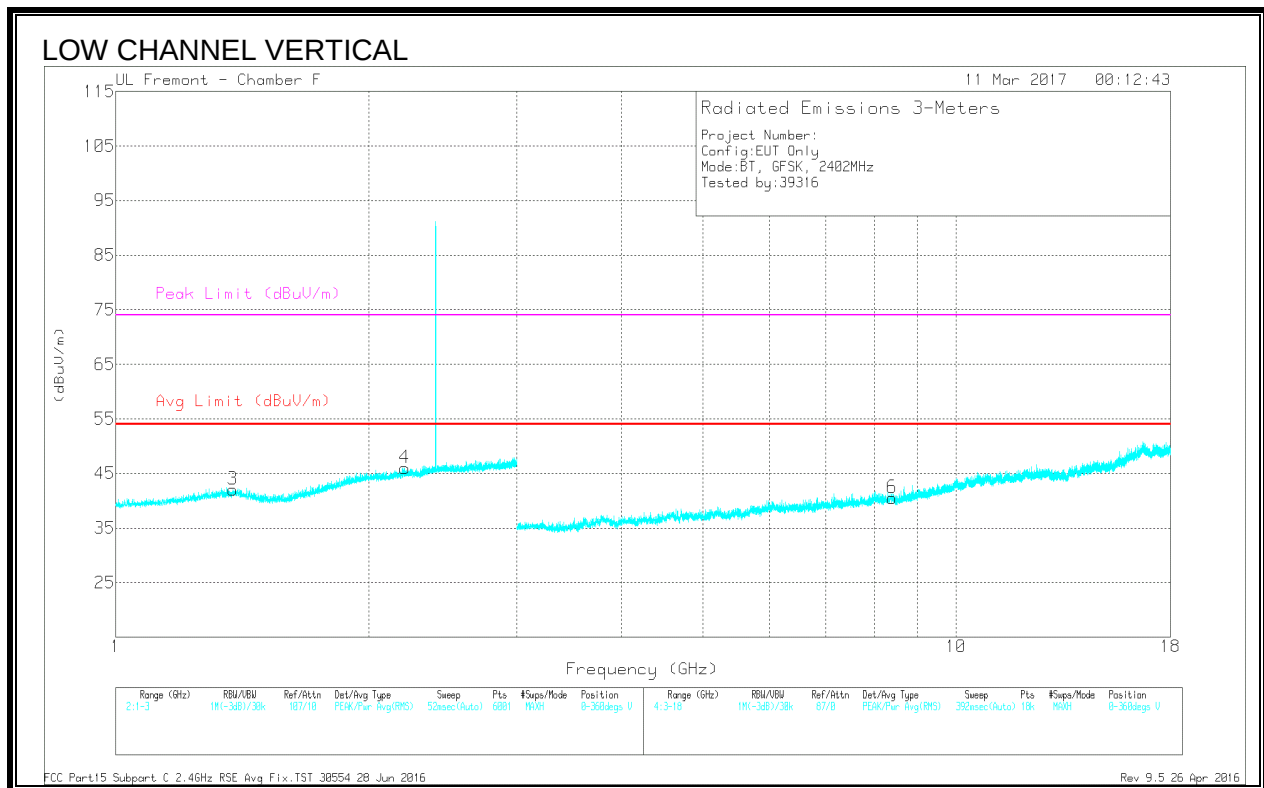
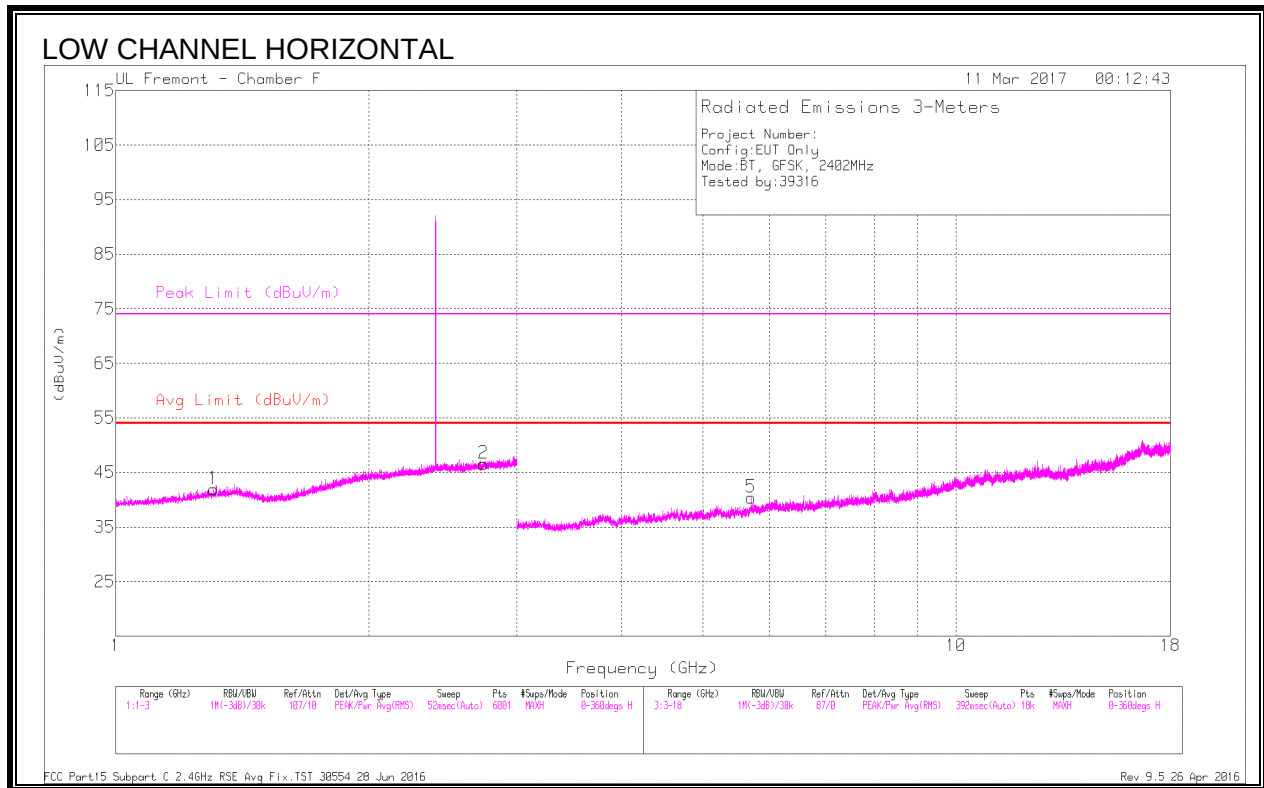
Pk - Peak detector

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

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9.6.3. HARMONICS AND SPURIOUS EMISSIONS



Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.303	40.65	PKFH	29	-22.2	47.45	-	-	74	-26.55	11	305	H
* 1.311	29.33	VA1T	29	-22.2	36.13	54	-17.87	-	-	11	305	H
* 2.741	40.74	PKFH	32.4	-20.7	52.44	-	-	74	-21.56	6	195	H
* 2.741	29.23	VA1T	32.4	-20.7	40.93	54	-13.07	-	-	6	195	H
* 1.377	40.79	PKFH	29.2	-22.1	47.89	-	-	74	-26.11	80	242	V
* 1.378	29.32	VA1T	29.2	-22.1	36.42	54	-17.58	-	-	80	242	V
* 2.211	40.57	PKFH	31.9	-21	51.47	-	-	74	-22.53	113	318	V
* 2.207	29.16	VA1T	31.9	-21.1	39.96	54	-14.04	-	-	113	318	V
5.71	37.04	PKFH	34.8	-26.6	45.24	-	-	-	-	147	335	H
5.707	25.6	VA1T	34.8	-26.6	33.8	-	-	-	-	147	335	H
* 8.399	35.34	PKFH	35.7	-23.6	47.44	-	-	74	-26.56	268	279	V
* 8.402	23.71	VA1T	35.7	-23.6	35.81	54	-18.19	-	-	268	279	V

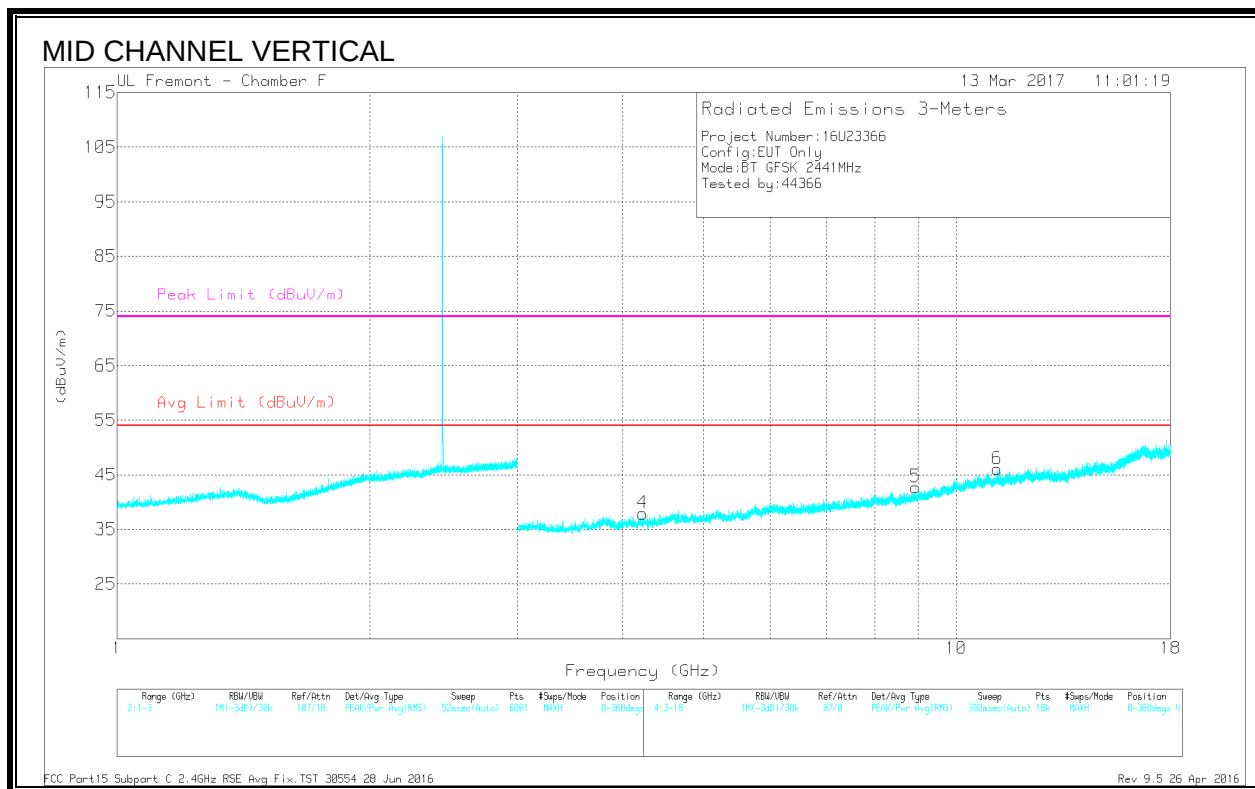
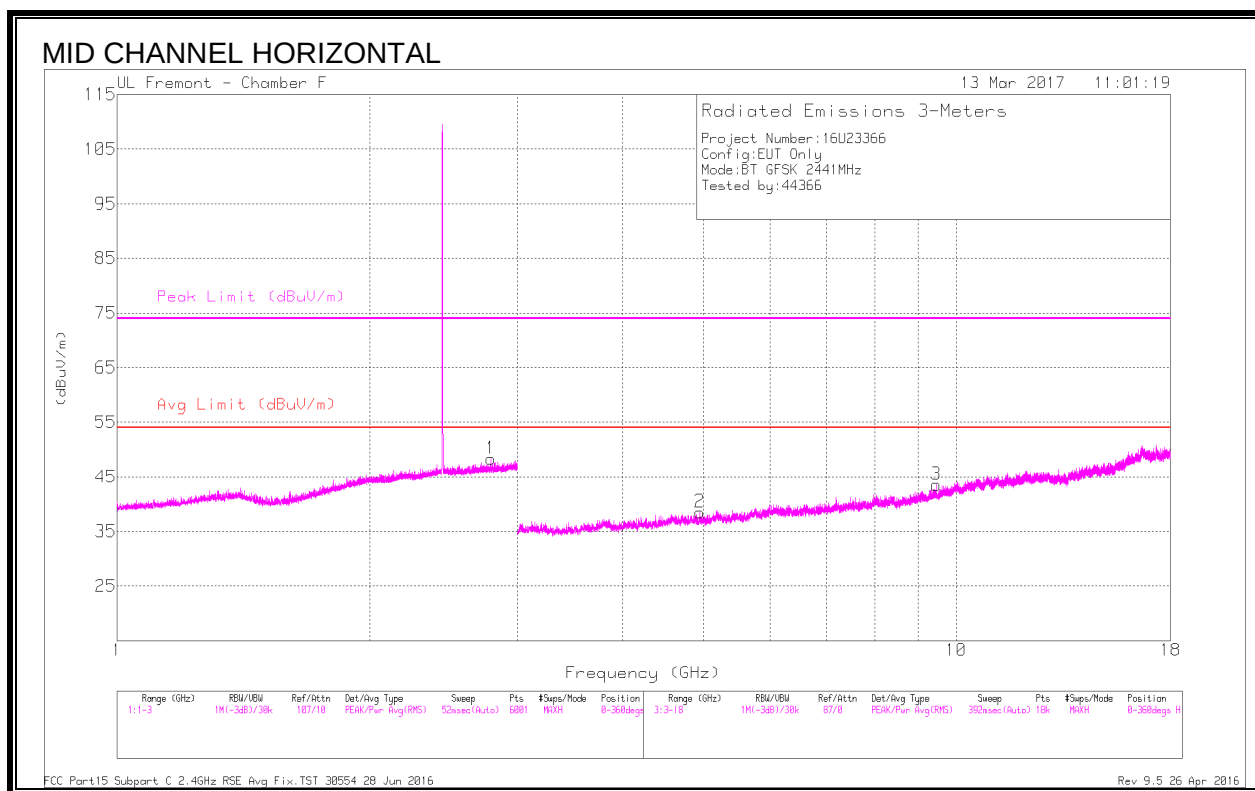
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

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Rev 9.5 26 Apr 2016



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filt/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	* 2.789	40.2	PKFH	32.5	-20.5	52.2	-	-	74	-21.8	60	120	H
	* 2.787	29.18	VA1T	32.5	-20.5	41.18	54	-12.82	-	-	60	120	H
2	* 4.95	37.61	PKFH	34.1	-28.4	43.31	-	-	74	-30.69	154	221	H
	* 4.949	26.81	VA1T	34.1	-28.4	32.51	54	-21.49	-	-	154	221	H
3	* 9.471	34.11	PKFH	36.4	-22.6	47.91	-	-	74	-26.09	231	187	H
	* 9.474	23.02	VA1T	36.4	-22.6	36.82	54	-17.18	-	-	231	1187	H
4	* 4.228	37	PKFH	33.7	-28.1	42.6	-	-	74	-31.4	116	110	V
	* 4.231	25.97	VA1T	33.7	-28.2	31.47	54	-22.53	-	-	116	110	V
5	8.947	34.7	PKFH	35.9	-23.1	47.5	-	-	-	-	185	123	V
6	* 11.183	34.38	PKFH	37.9	-21.6	50.68	-	-	74	-23.32	78	131	V
	* 11.182	23.16	VA1T	37.9	-21.6	39.46	54	-14.54	-	-	78	131	V

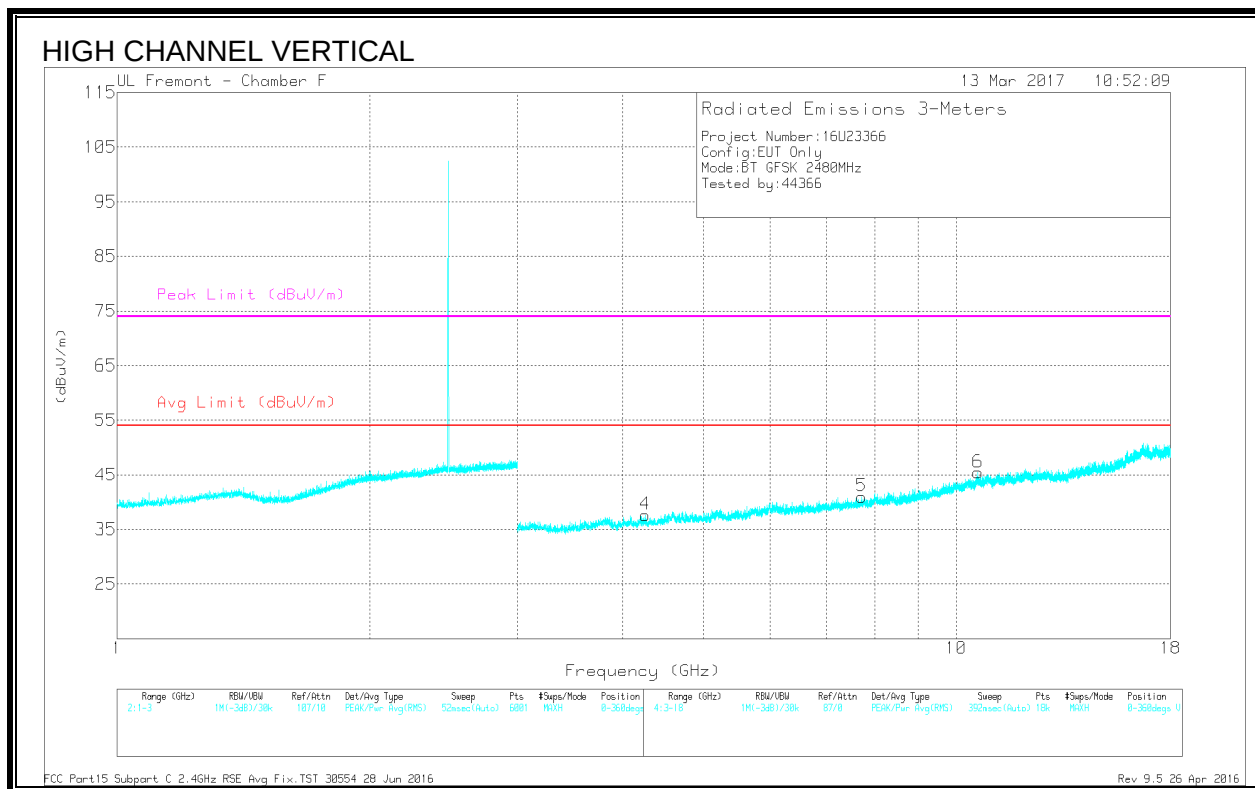
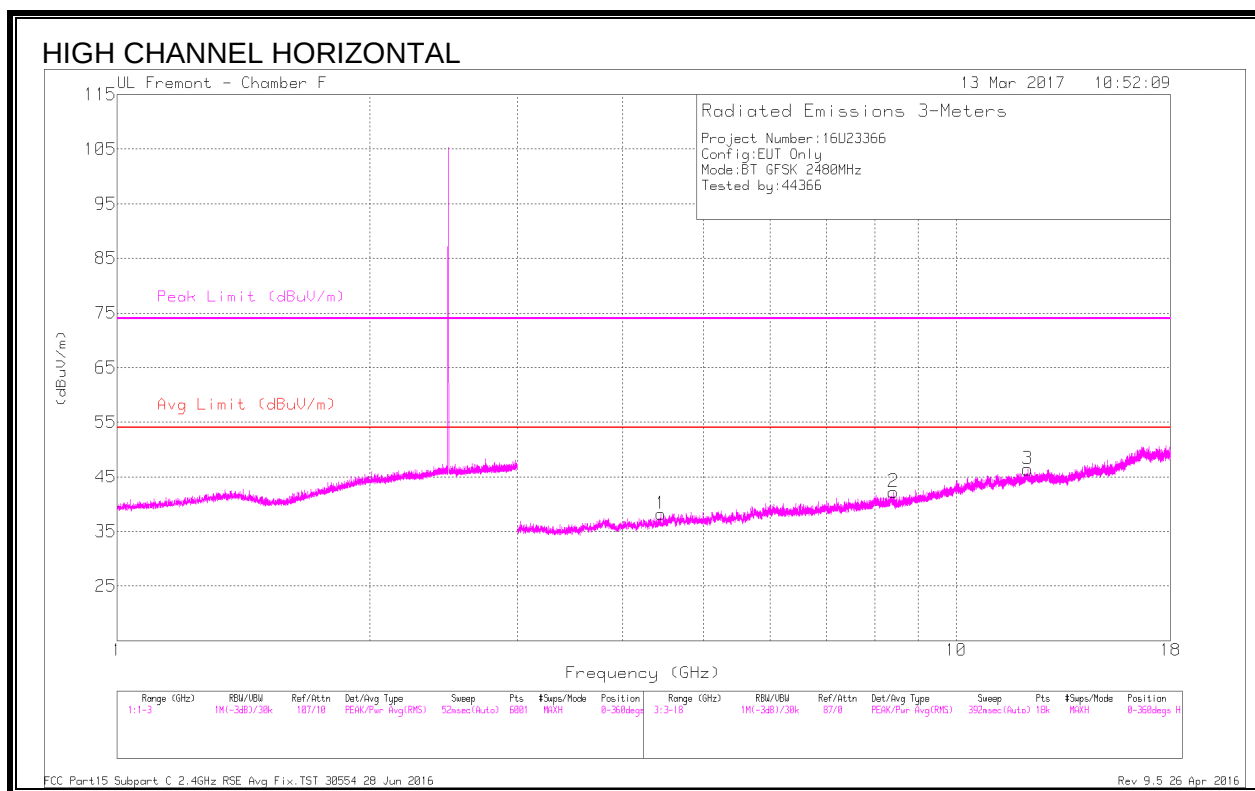
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

FCC Part15 Subpart C 2.4GHz RSE Avg Fix.TST 30554 28 Jun 2016

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (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	4.448	37.79	PKFH	34	-28.7	43.09	-	-	-	-	131	323	H
2	* 8.419	35.23	PKFH	35.7	-23.5	47.43	-	-	74	-26.57	201	304	H
	* 8.416	23.59	VA1T	35.7	-23.5	35.79	54	-18.21	-	-	155	225	H
3	* 12.165	34.38	PKFH	38.9	-21.7	51.58	-	-	74	-22.42	155	225	H
	* 12.164	23.04	VA1T	38.9	-21.7	40.24	54	-13.76	-	-	320	286	H
4	* 4.258	37.97	PKFH	33.7	-28.4	43.27	-	-	74	-30.73	320	286	V
	* 4.256	26.49	VA1T	33.7	-28.4	31.79	54	-22.21	-	-	64	210	V
5	* 7.713	35.64	PKFH	35.7	-25	46.34	-	-	74	-27.66	64	210	V
	* 7.71	24.42	VA1T	35.7	-24.9	35.22	54	-18.78	-	-	216	139	V
6	* 10.615	34.17	PKFH	37.6	-21.2	50.57	-	-	74	-23.43	216	139	V
	* 10.616	22.98	VA1T	37.6	-21.2	39.38	54	-14.62	-	-	131	323	V

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

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

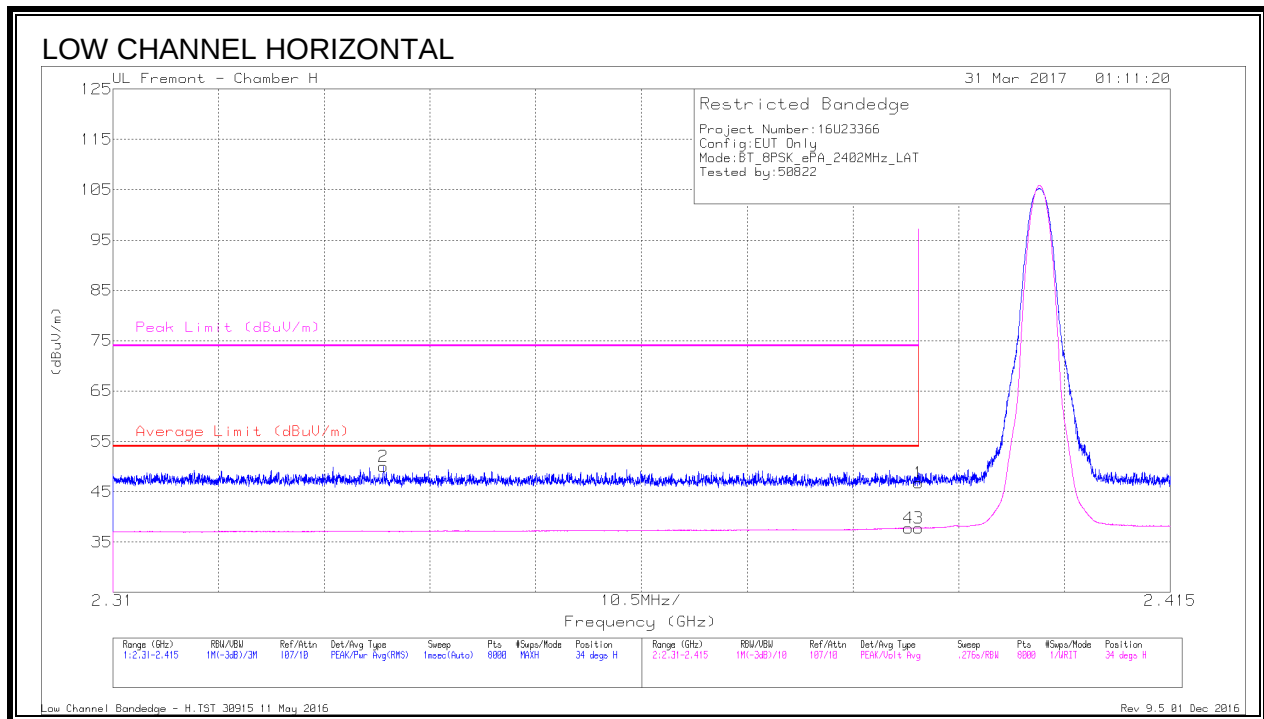
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

FCC Part15 Subpart C 2.4GHz RSE Avg Fix.TST 30554 28 Jun 2016

Rev 9.5 26 Apr 2016

9.7. LAT 3, Pmax ENHANCED DATA RATE 8PSK MODULATION

9.7.1. RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.39	43.28	Pk	31.9	-28.4	46.78	-	-	74	-27.22	34	201	H
2	* 2.337	46.69	Pk	31.7	-28.4	49.99	-	-	74	-24.01	34	201	H
3	* 2.39	34.31	VA1T	31.9	-28.4	37.81	54	-16.19	-	-	34	201	H
4	* 2.389	34.31	VA1T	31.9	-28.4	37.81	54	-16.19	-	-	34	201	H

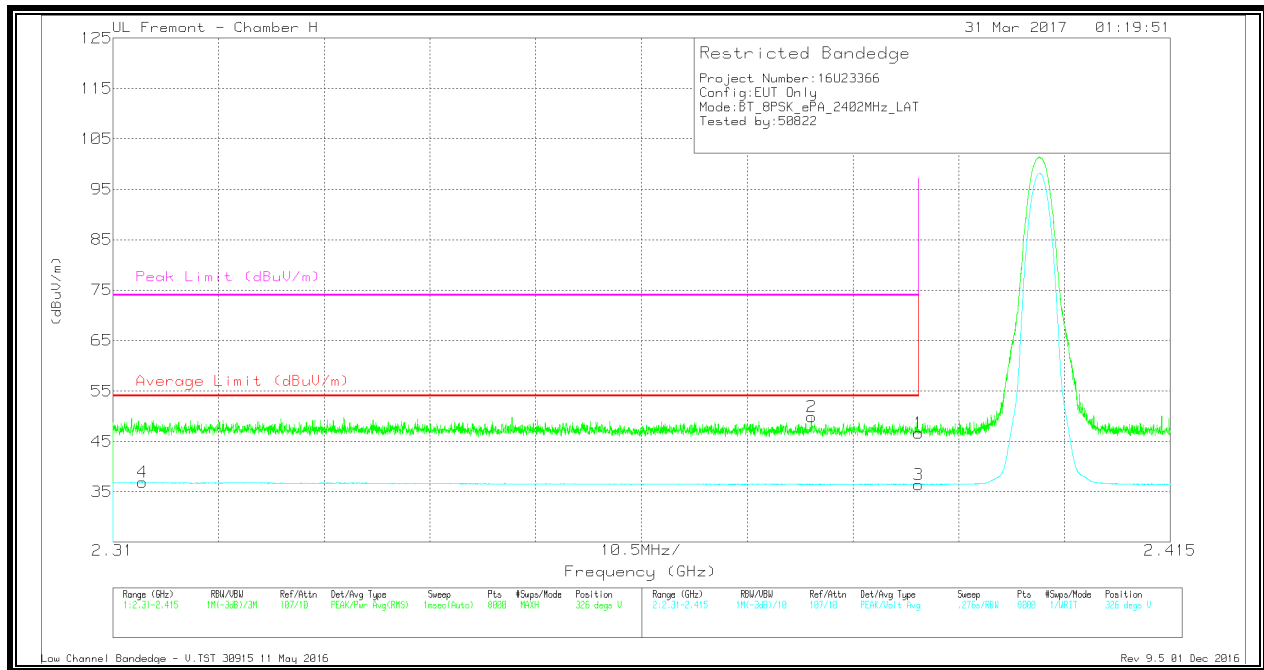
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

Low Channel Bandedge - H.TST 30915 11 May 2016

Rev 9.5 01 Dec 2016



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	43.18	Pk	31.9	-28.4	46.68	-	-	74	-27.32	326	379	V
2	* 2.379	46.35	Pk	31.9	-28.4	49.85	-	-	74	-24.15	326	379	V
3	* 2.39	32.97	VA1T	31.9	-28.4	36.47	54	-17.53	-	-	326	379	V
4	* 2.313	33.67	VA1T	31.6	-28.4	36.87	54	-17.13	-	-	326	379	V

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

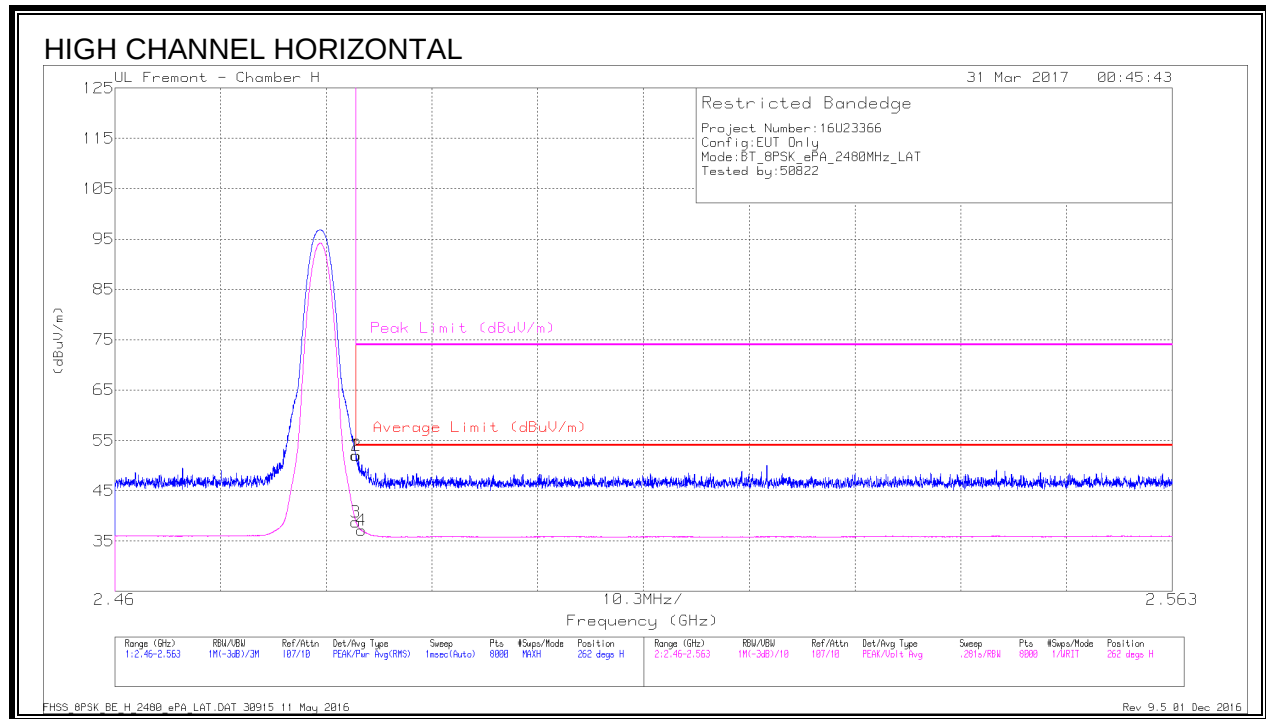
Pk - Peak detector

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

Low Channel Bandedge - V.TST 30915 11 May 2016

Rev 9.5 01 Dec 2016

9.7.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/C bl/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	48.32	Pk	32.2	-28.5	52.02	-	-	74	-21.98	262	119	H
2	* 2.484	48.36	Pk	32.2	-28.5	52.06	-	-	74	-21.94	262	119	H
3	* 2.484	35.09	VA1T	32.2	-28.5	38.79	54	-15.21	-	-	262	119	H
4	* 2.484	33.48	VA1T	32.2	-28.5	37.18	54	-16.82	-	-	262	119	H

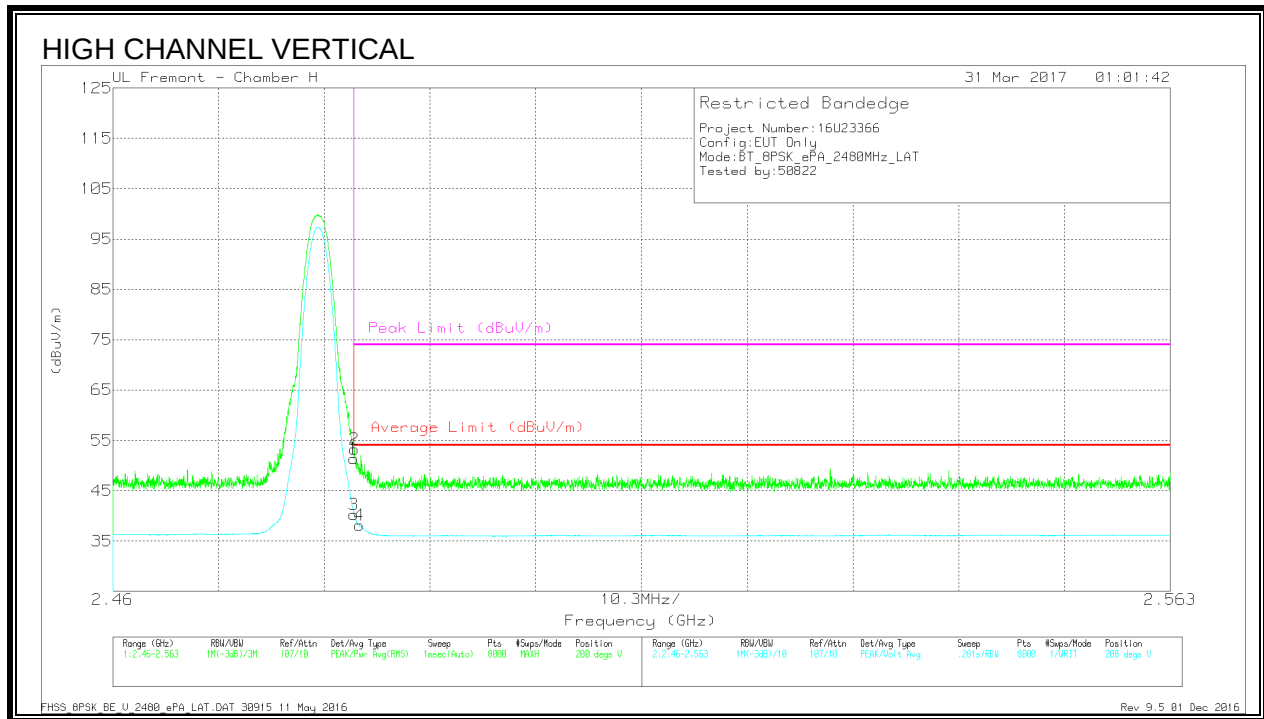
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

FHSS_8PSK_BE_H_2480_ePA_LAT.DAT 30915 11 May 2016

Rev 9.5 01 Dec 2016



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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)	Polarization
1	* 2.484	47.72	Pk	32.2	-28.5	51.42	-	-	74	-22.58	200	202	V
2	* 2.484	49.62	Pk	32.2	-28.5	53.32	-	-	74	-20.68	200	202	V
3	* 2.484	36.62	VA1T	32.2	-28.5	40.32	54	-13.68	-	-	200	202	V
4	* 2.484	34.46	VA1T	32.2	-28.5	38.16	54	-15.84	-	-	200	202	V

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

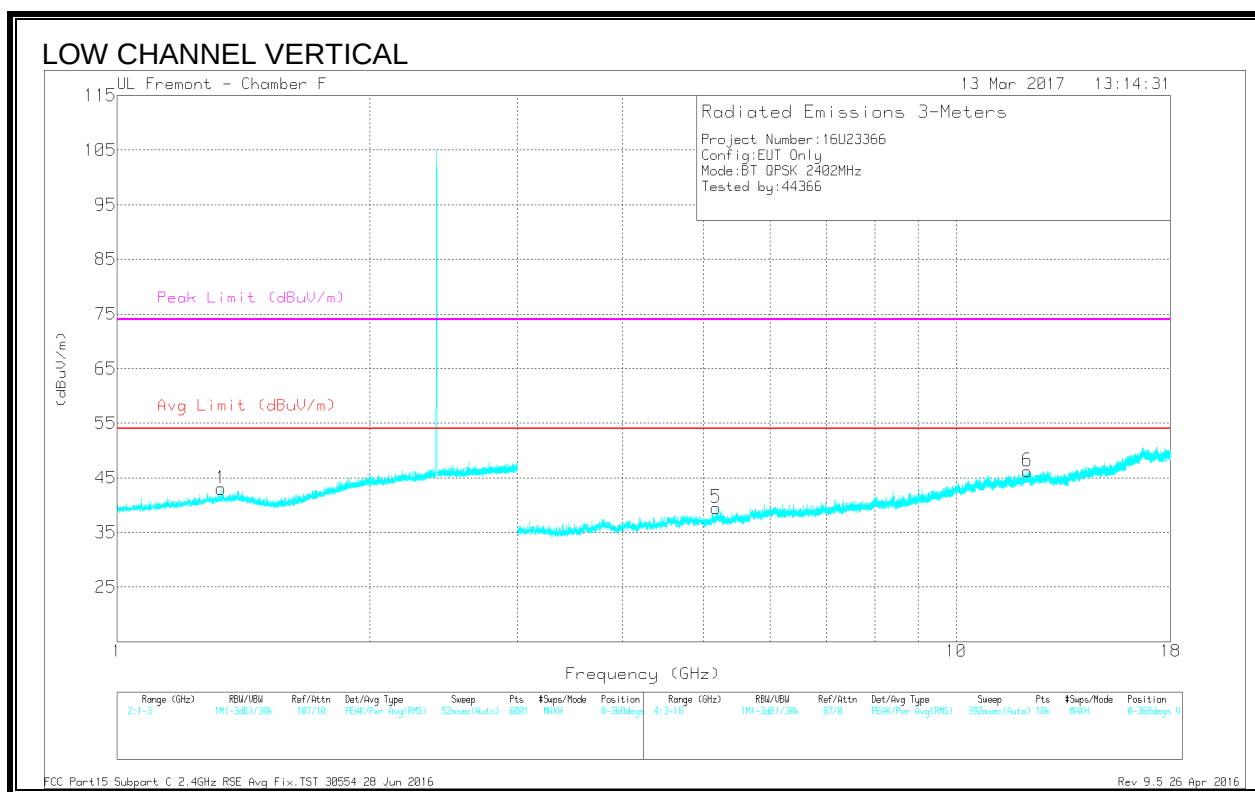
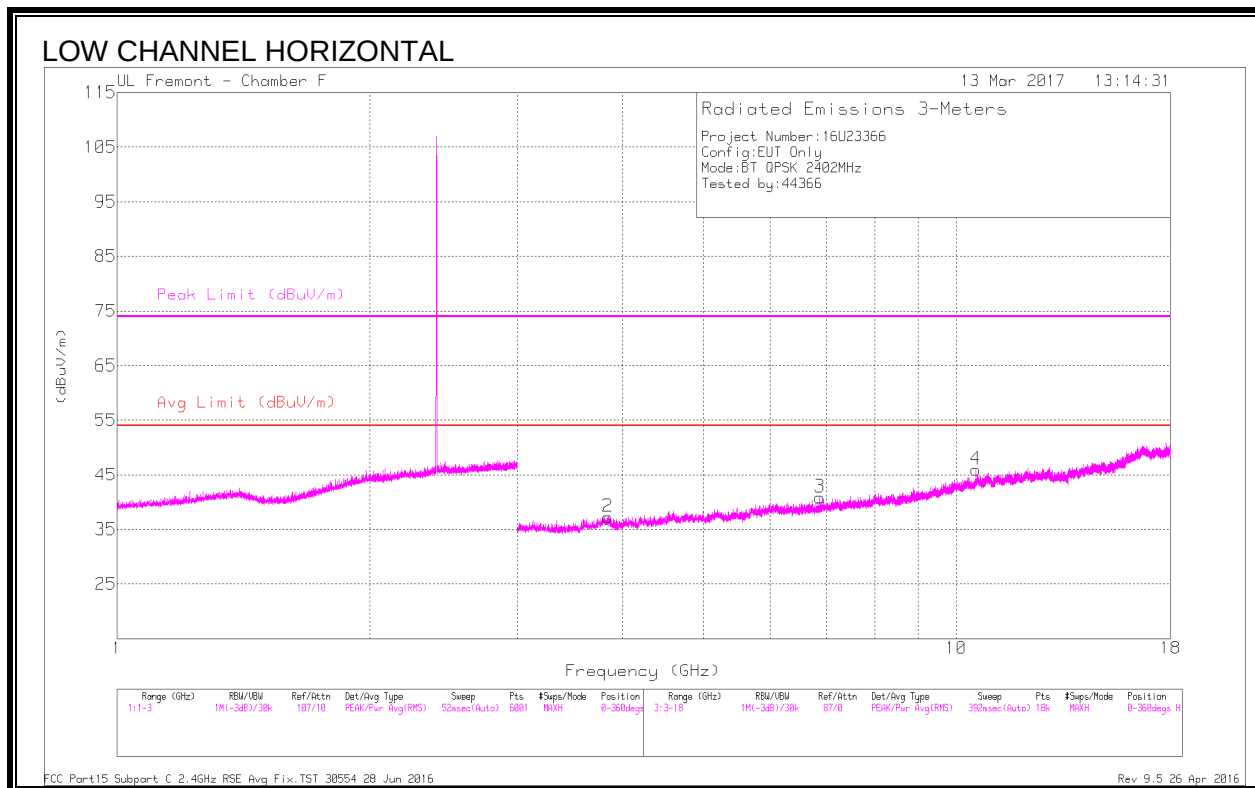
Pk - Peak detector

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

FHSS_8PSK_BE_V_2480_ePA_LAT.DAT 30915 11 May 2016

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9.7.3. HARMONICS AND SPURIOUS EMISSIONS



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T344 (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	* 1.332	41.37	PKFH	29.1	-22.1	48.37	-	-	74	-25.63	309	184	V
	* 1.331	29.42	VA1T	29.1	-22.2	36.32	54	-17.68	-	-	309	184	V
2	* 3.845	37.86	PKFH	33.4	-28.3	42.96	-	-	74	-31.04	315	246	H
	* 3.847	26.46	VA1T	33.4	-28.3	31.56	54	-22.44	-	-	315	246	H
3	6.88	35.88	PKFH	35.5	-26.2	45.18	-	-	-	-	92	288	H
4	10.559	34.79	PKFH	37.5	-21.2	51.09	-	-	-	-	149	165	H
	10.561	22.86	VA1T	37.5	-21.2	39.16	-	-	-	-	149	165	H
5	5.175	36.88	PKFH	34.3	-26.8	44.38	-	-	-	-	283	101	V
6	* 12.15	33.86	PKFH	38.9	-21.8	50.96	-	-	74	-23.04	46	301	V
	* 12.15	23.23	VA1T	38.9	-21.8	40.33	54	-13.67	-	-	46	301	V

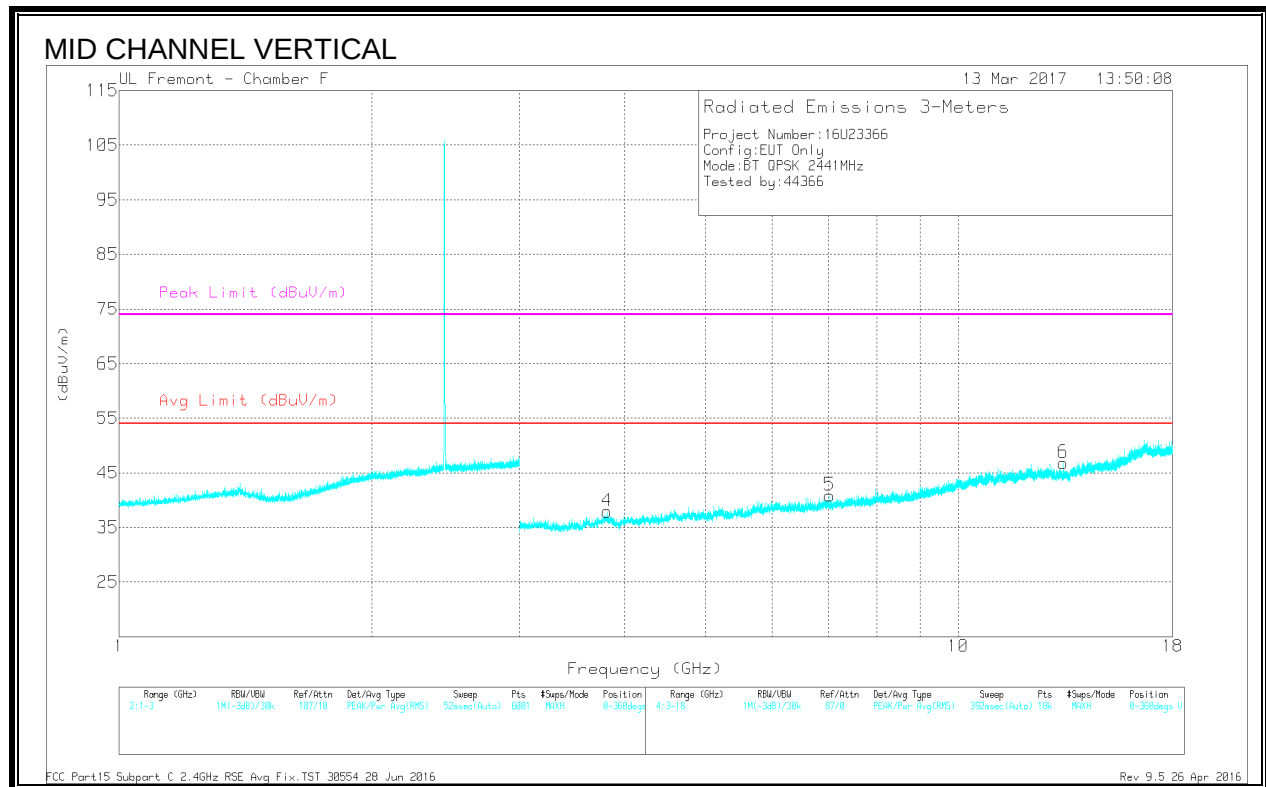
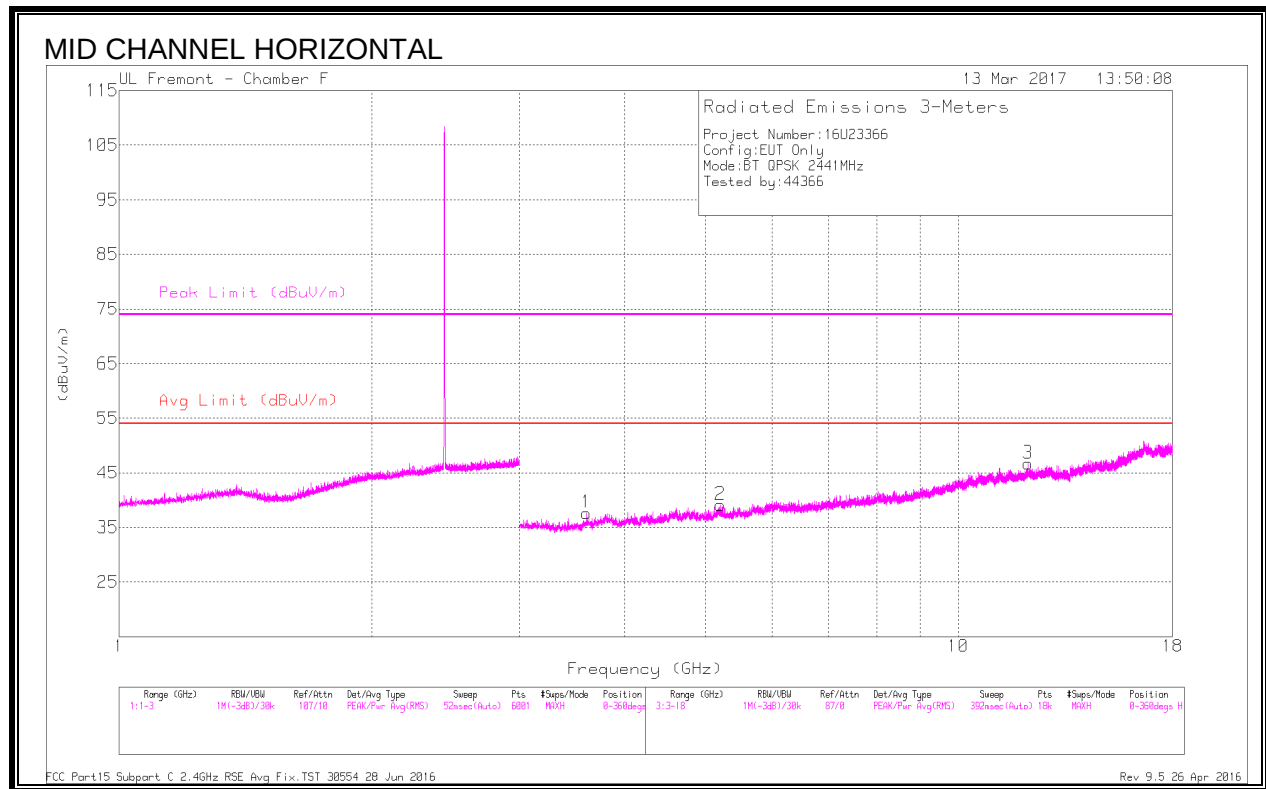
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filt/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	* 3.604	39.55	PKFH	33	-29.1	43.45	-	-	74	-30.55	271	243	H
	* 3.605	26.85	VA1T	33	-29.1	30.75	54	-23.25	-	-	271	243	H
2	5.205	37.47	PKFH	34.4	-27.3	44.57	-	-	-	-	35	202	H
3	* 12.112	34.43	PKFH	38.9	-21.7	51.63	-	-	74	-22.37	64	206	H
	* 12.111	23.21	VA1T	38.9	-21.7	40.41	54	-13.59	-	-	64	206	H
4	* 3.815	38.12	PKFH	33.4	-28.3	43.22	-	-	74	-30.78	100	124	V
	* 3.814	26.63	VA1T	33.4	-28.3	31.73	54	-22.27	-	-	100	124	V
5	7.026	36.57	PKFH	35.6	-26	46.17	-	-	-	-	59	275	V
6	* 13.343	35.86	PKFH	39.1	-23.4	51.56	-	-	74	-22.44	152	176	V
	* 13.34	24.36	VA1T	39.1	-23.4	40.06	54	-13.94	-	-	152	176	V

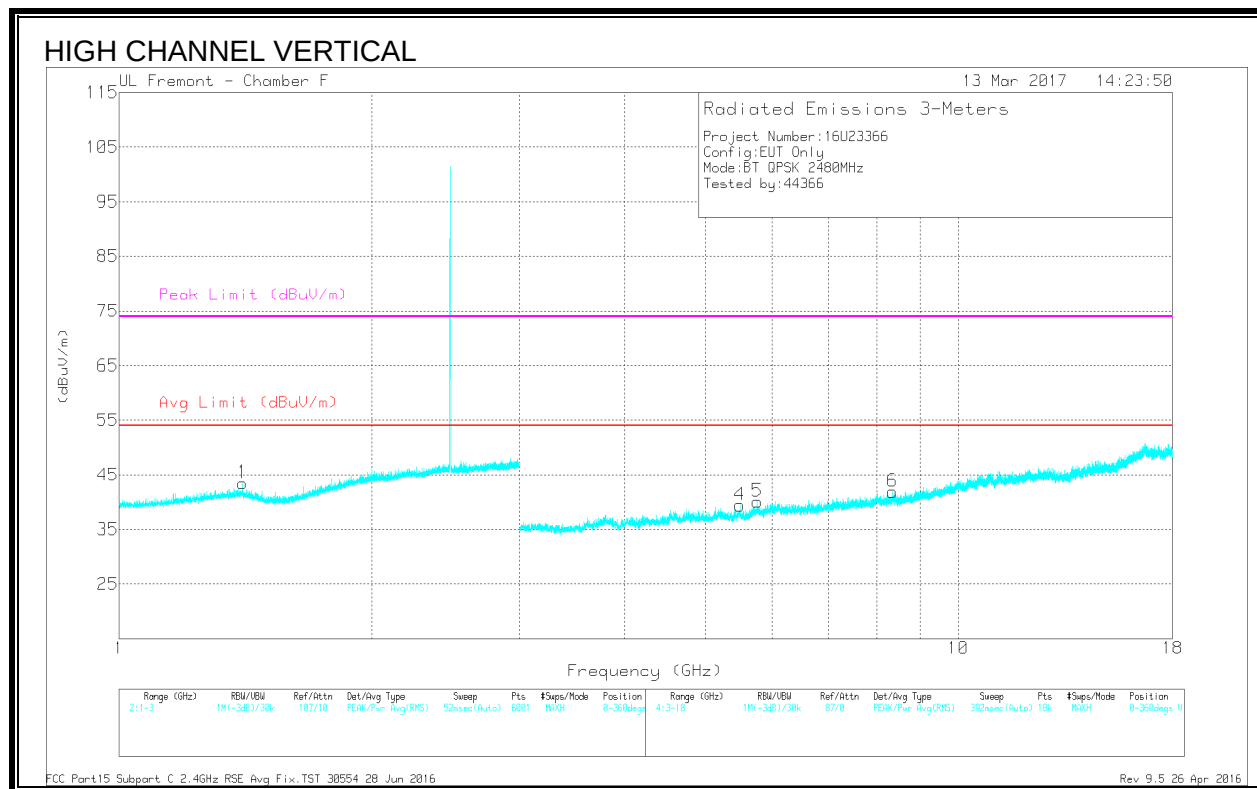
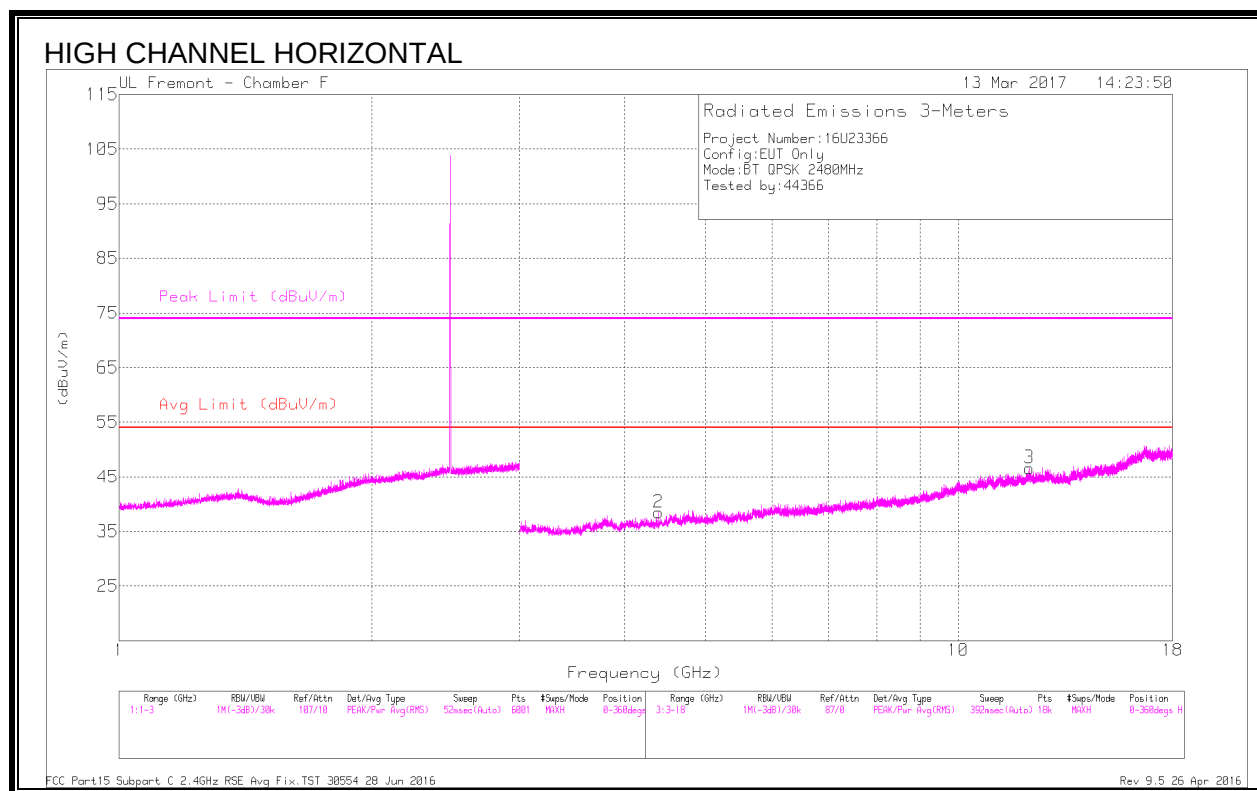
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

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Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T344 (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	* 1.403	40.41	PKFH	29.3	-22.1	47.61	-	-	74	-26.39	120	193	V
	* 1.404	29.35	VA1T	29.2	-22.1	36.45	54	-17.55	-	-	120	193	V
2	* 4.395	37.6	PKFH	34	-28.9	42.7	-	-	74	-31.3	65	314	H
	* 4.395	26.59	VA1T	34	-28.9	31.69	54	-22.31	-	-	65	314	H
3	* 12.156	35.21	PKFH	38.9	-21.7	52.41	-	-	74	-21.59	144	147	H
	* 12.155	23.23	VA1T	38.9	-21.7	40.43	54	-13.57	-	-	144	147	H
4	5.491	37.4	PKFH	34.6	-27.6	44.4	-	-	-	-	189	341	V
5	5.763	37.05	PKFH	34.9	-26.4	45.55	-	-	-	-	251	366	V
6	* 8.352	35.53	PKFH	35.7	-24	47.23	-	-	74	-26.77	250	269	V
	* 8.352	24.34	VA1T	35.7	-24	36.04	54	-17.96	-	-	250	269	V

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

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

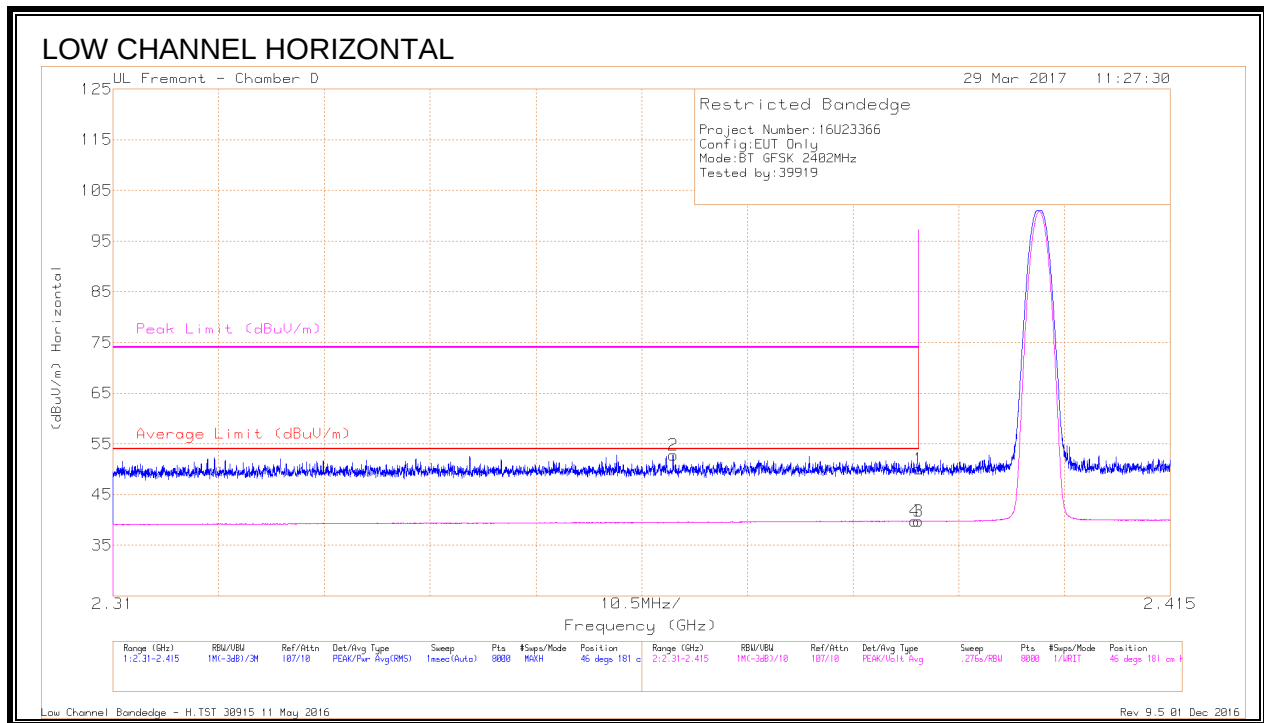
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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9.8. LAT 3, Plow BASIC DATA RATE GFSK MODULATION

9.8.1. RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.39	38.69	Pk	32	-20.7	49.99	-	-	74	-24.01	46	181	H
2	* 2.366	41.79	Pk	31.8	-20.8	52.79	-	-	74	-21.21	46	181	H
3	* 2.39	28.43	VA1T	32	-20.7	39.73	54	-14.27	-	-	46	181	H
4	* 2.39	28.56	VA1T	32	-20.8	39.76	54	-14.24	-	-	46	181	H

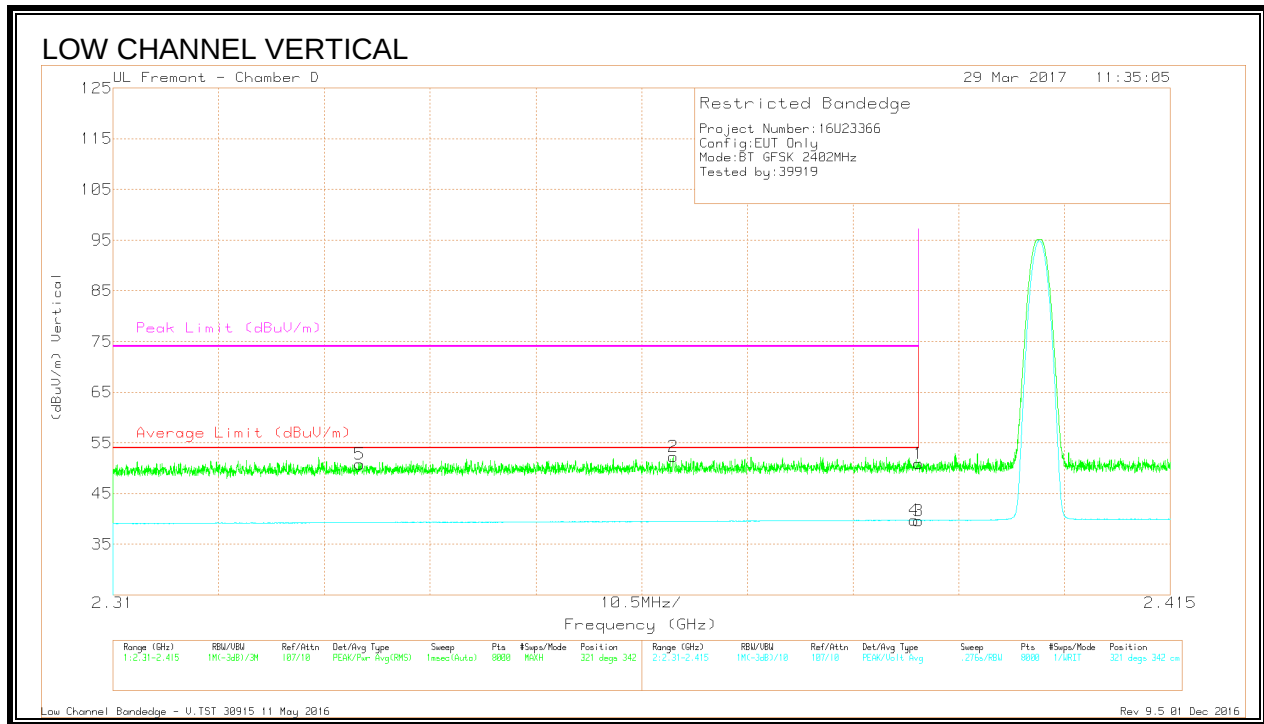
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

Low Channel Bandedge - H.TST 30915 11 May 2016

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Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T862 (dB/m)	Amp/C bl/Fitr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarit y
1	* 2.39	39.58	Pk	32	-20.7	50.88	-	-	74	-23.12	321	342	V
2	* 2.366	41.32	Pk	31.8	-20.8	52.32	-	-	74	-21.68	321	342	V
5	* 2.335	40.07	Pk	31.6	-20.9	50.77	-	-	74	-23.23	321	342	V
3	* 2.39	28.37	VA1T	32	-20.7	39.67	54	-14.33	-	-	321	342	V
4	* 2.39	28.56	VA1T	32	-20.8	39.76	54	-14.24	-	-	321	342	V

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

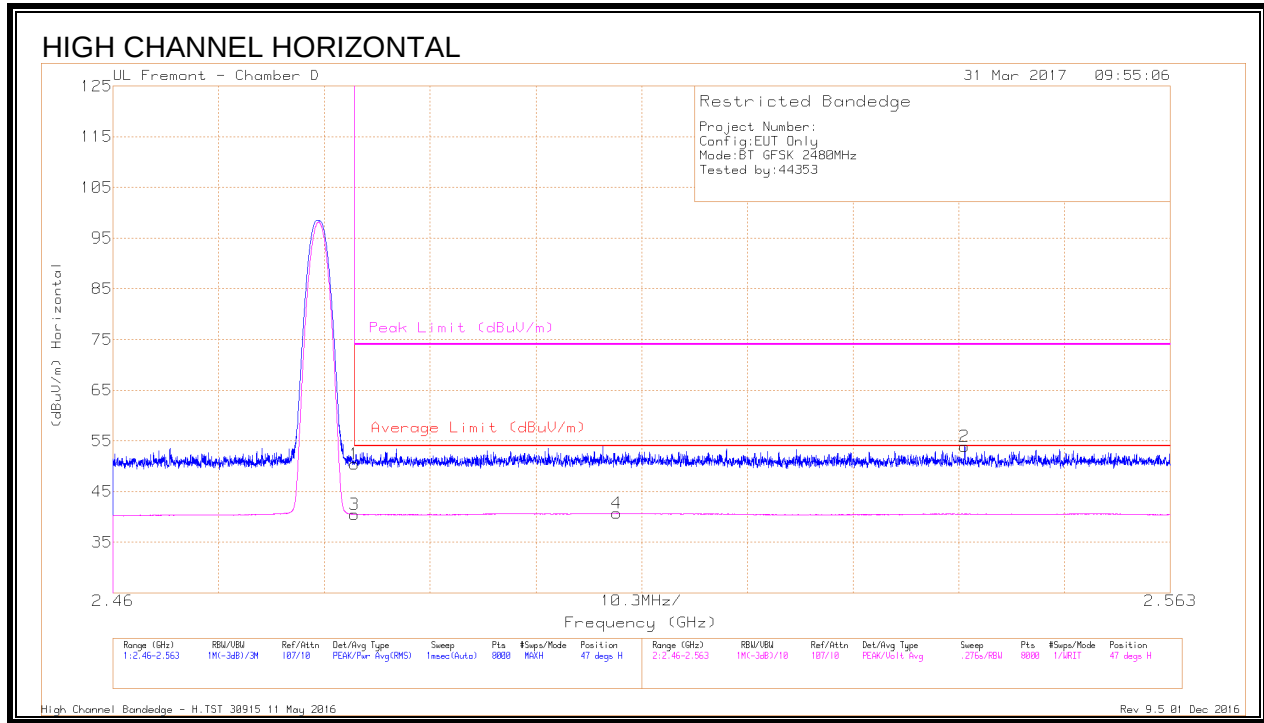
Pk - Peak detector

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

Low Channel Bandedge - V.TST 30915 11 May 2016

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9.8.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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)	Polarization
1	* 2.484	38.66	Pk	32.5	-20.8	50.36	-	-	74	-23.64	47	248	H
3	* 2.484	28.82	VA1T	32.5	-20.8	40.52	54	-13.48	-	-	47	248	H
4	2.509	28.68	VA1T	32.6	-20.6	40.68	54	-13.32	-	-	47	248	H
2	2.543	42	Pk	32.5	-20.6	53.9	-	-	74	-20.1	47	248	H

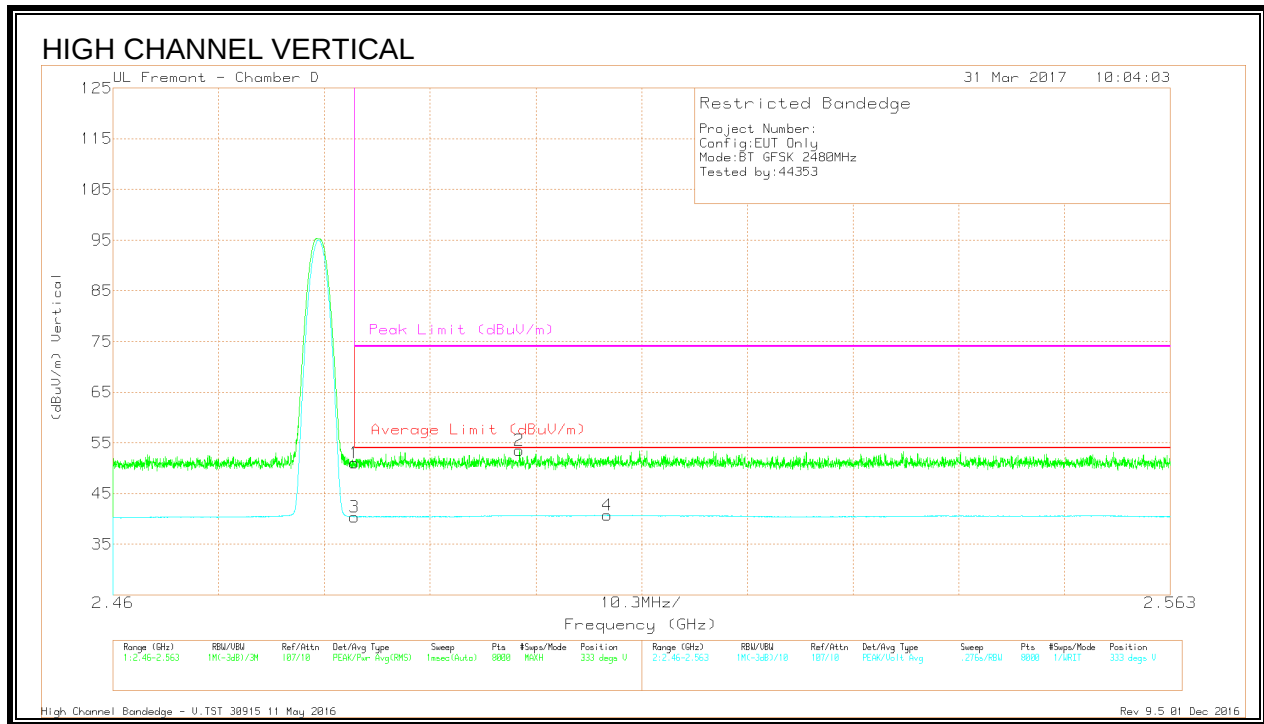
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

High Channel Bandedge - H.TST 30915 11 May 2016

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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	39.31	Pk	32.5	-20.8	51.01	-	-	74	-22.99	333	368	V
2	* 2.5	41.57	Pk	32.6	-20.7	53.47	-	-	74	-20.53	333	368	V
3	* 2.484	28.7	VA1T	32.5	-20.8	40.4	54	-13.6	-	-	333	368	V
4	2.508	28.69	VA1T	32.6	-20.6	40.69	54	-13.31	-	-	333	368	V

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

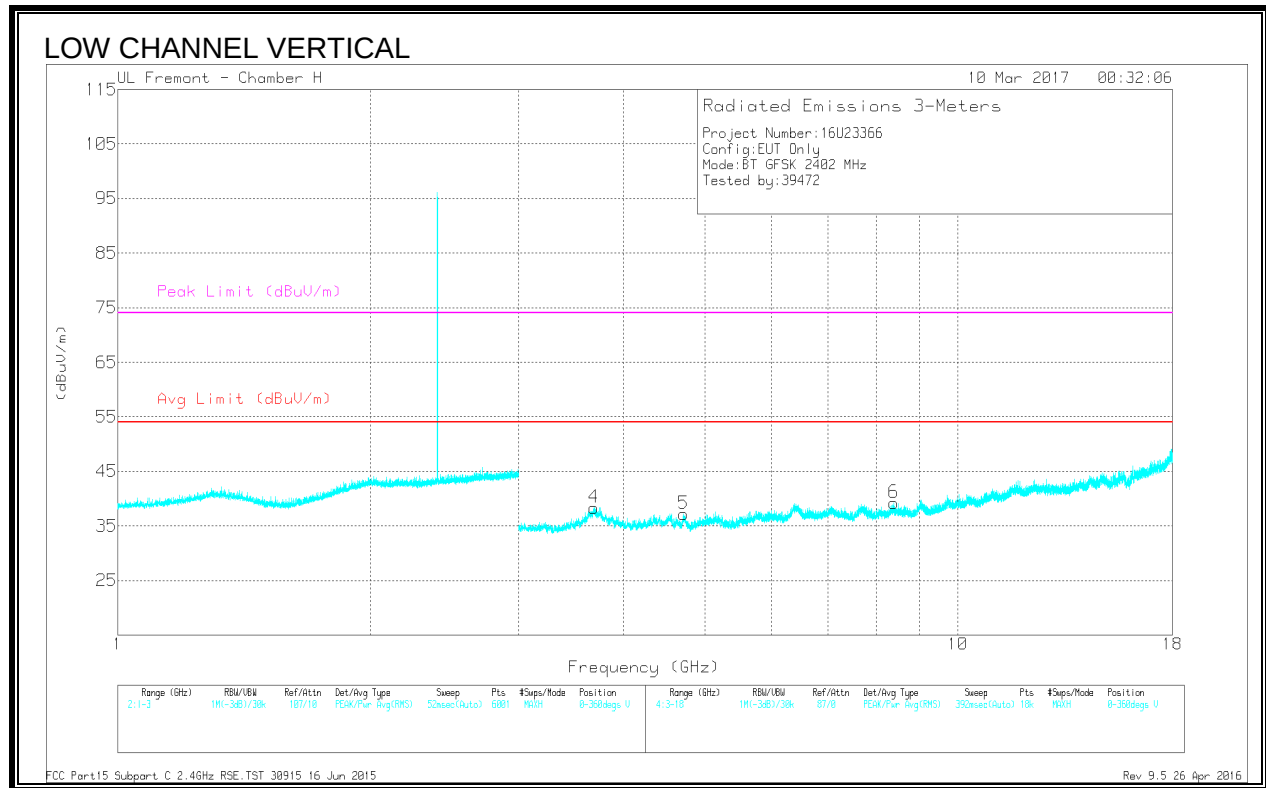
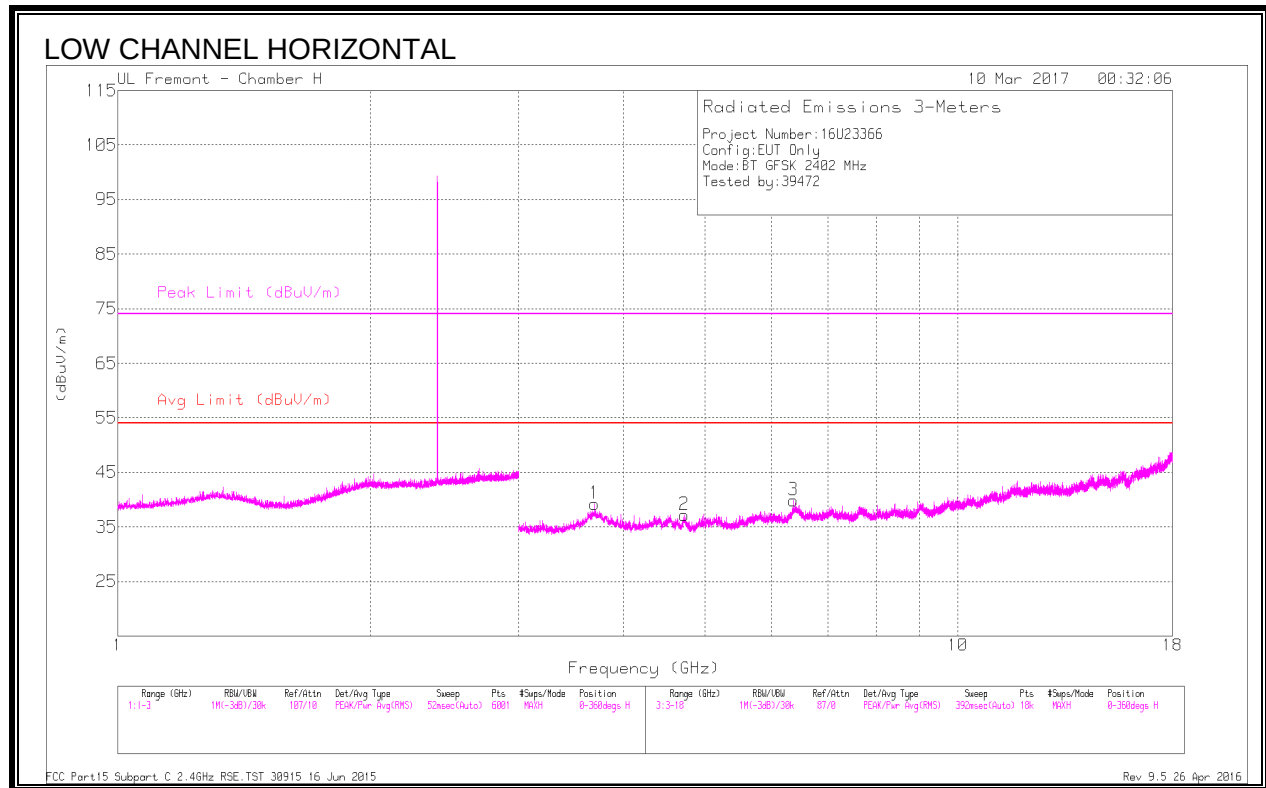
Pk - Peak detector

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

High Channel Bandedge - V.TST 30915 11 May 2016

Rev 9.5 01 Dec 2016

9.8.3. HARMONICS AND SPURIOUS EMISSIONS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	* 3.695	45.14	PKFH	34.9	-35.9	44.14	-	-	74	-29.86	347	235	H
	* 3.693	33.76	VA1T	34.9	-35.9	32.76	54	-21.24	-	-	347	235	H
2	* 4.804	42.3	PKFH	34	-35	41.3	-	-	74	-32.7	330	146	H
	* 4.804	31.21	VA1T	34	-35	30.21	54	-23.79	-	-	330	146	H
4	* 3.684	45.18	PKFH	34.9	-36	44.08	-	-	74	-29.92	30	114	V
	* 3.687	33.72	VA1T	34.9	-36	32.62	54	-21.38	-	-	30	114	V
5	* 4.803	42.93	PKFH	34	-35.1	41.83	-	-	74	-32.17	312	177	V
	* 4.804	31.11	VA1T	34	-35	30.11	54	-23.89	-	-	312	177	V
6	* 8.397	39.17	PKFH	35.8	-29.6	45.37	-	-	74	-28.63	341	112	V
	* 8.394	27.14	VA1T	35.8	-29.6	33.34	54	-20.66	-	-	341	112	V
3	6.372	40.14	PKFH	35.6	-31.5	44.24	-	-	-	-	244	255	H

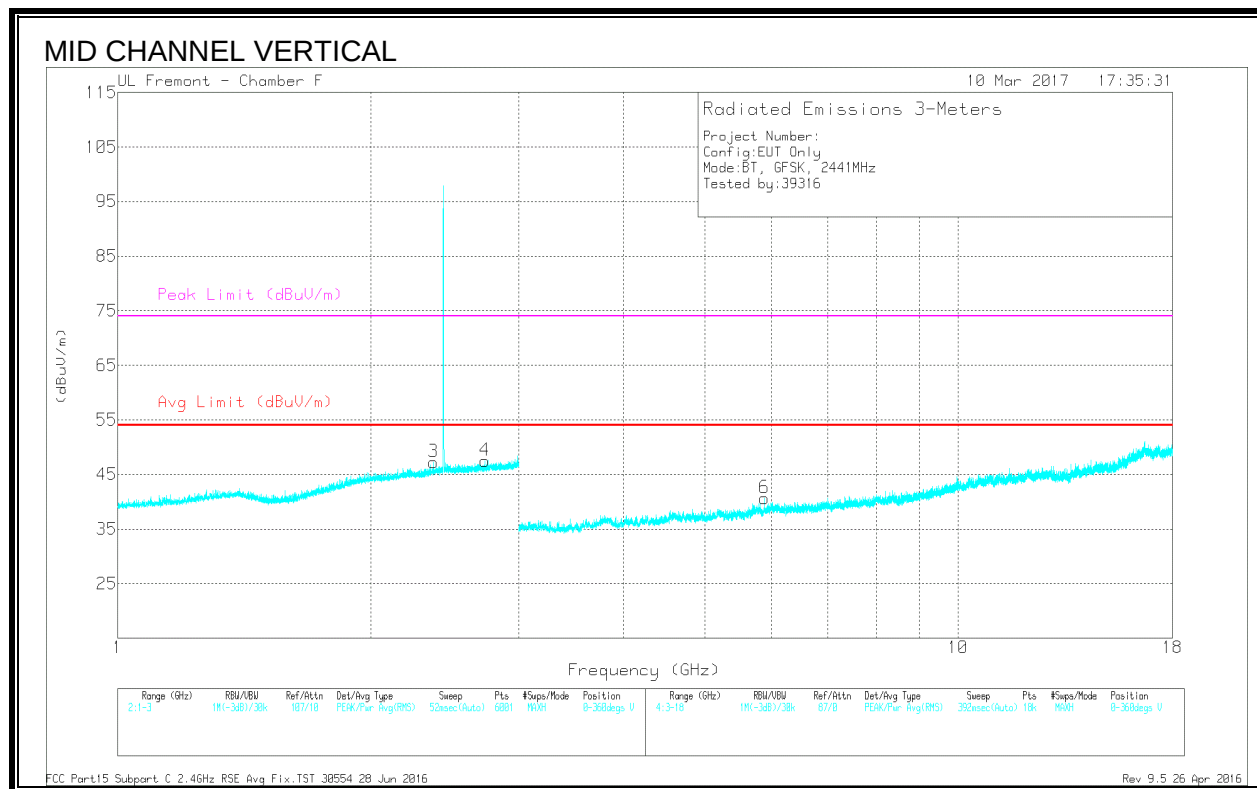
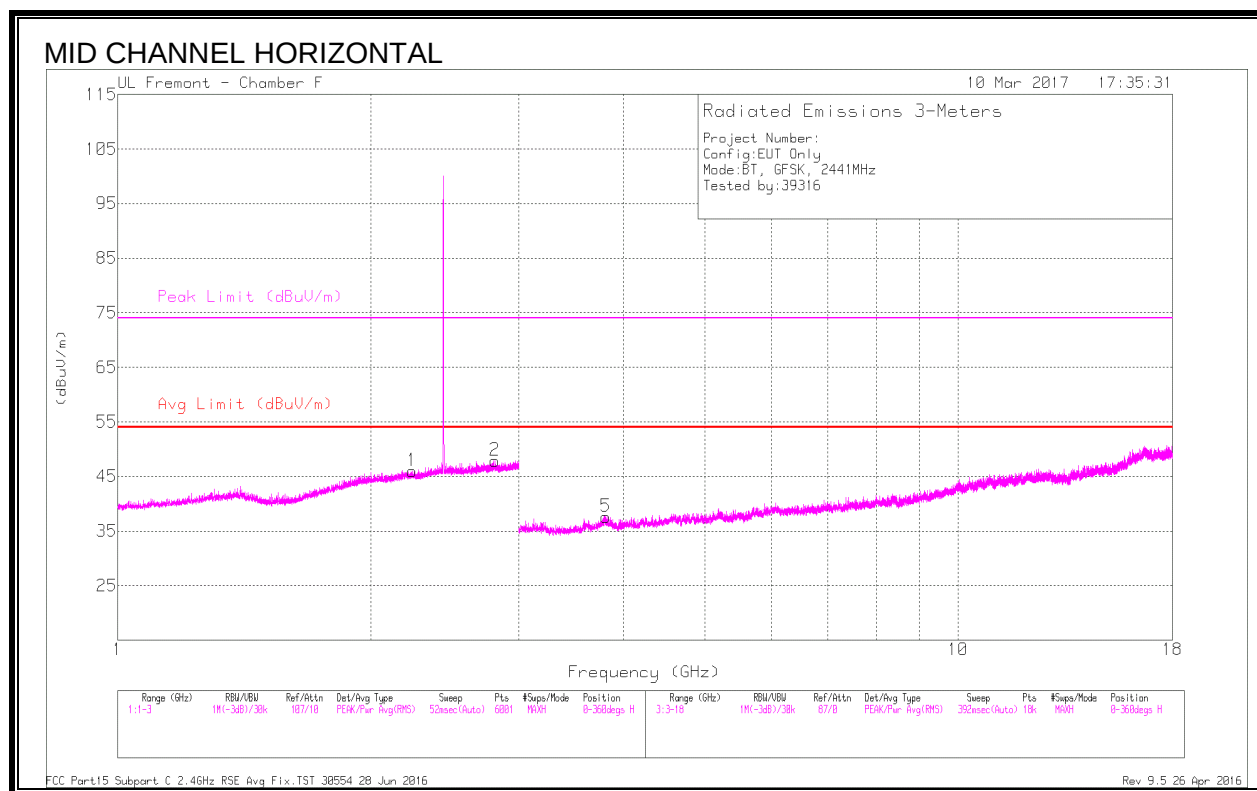
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

FCC Part15 Subpart C 2.4GHz RSE.TST 30915 16 Jun 2015

Rev 9.5 26 Apr 2016



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (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	* 2.243	40.17	PKFH	31.8	-20.9	51.07	-	-	74	-22.93	248	376	H
	* 2.242	29.16	VA1T	31.8	-20.9	40.06	54	-13.94	-	-	248	376	H
2	* 2.811	41.67	PKFH	32.5	-20.5	53.67	-	-	74	-20.33	261	118	H
	* 2.811	29.15	VA1T	32.5	-20.5	41.15	54	-12.85	-	-	261	118	H
3	* 2.376	40.72	PKFH	32.1	-21	51.82	-	-	74	-22.18	21	139	V
	* 2.376	29.27	VA1T	32.1	-21	40.37	54	-13.63	-	-	21	139	V
4	* 2.734	40.51	PKFH	32.4	-20.6	52.31	-	-	74	-21.69	264	266	V
	* 2.734	29.17	VA1T	32.4	-20.6	40.97	54	-13.03	-	-	264	266	V
5	* 3.811	37.77	PKFH	33.4	-28.3	42.87	-	-	74	-31.13	314	231	H
	* 3.811	26.74	VA1T	33.4	-28.3	31.84	54	-22.16	-	-	314	231	H
6	5.883	37.59	PKFH	35.3	-27.7	45.19	-	-	-	-	217	198	V
	5.883	26.27	VA1T	35.3	-27.7	33.87	-	-	-	-	217	198	V

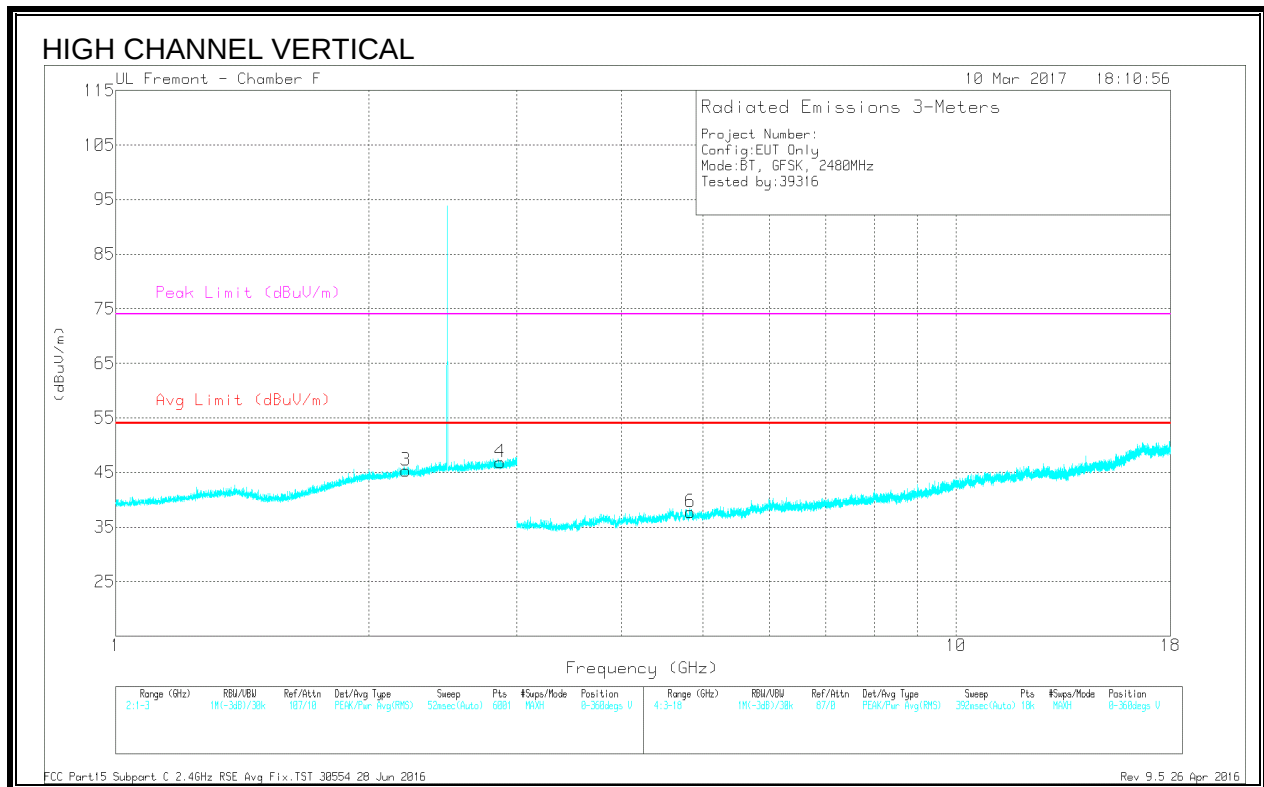
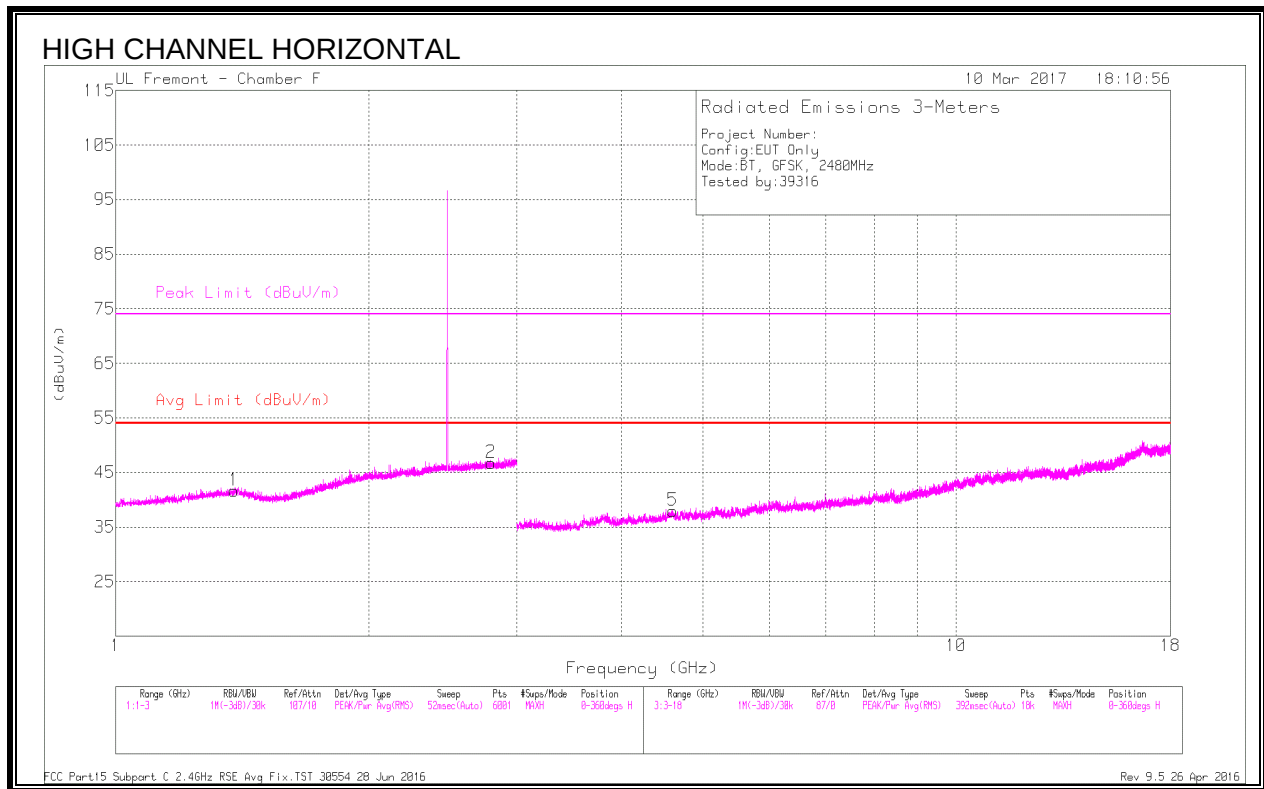
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

FCC Part15 Subpart C 2.4GHz RSE Avg Fix.TST 30554 28 Jun 2016

Rev 9.5 26 Apr 2016



Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.383	40.52	PKFH	29.2	-22.1	47.62	-	-	74	-26.38	208	270	H
* 1.382	29.35	VA1T	29.2	-22.1	36.45	54	-17.55	-	-	208	270	H
* 2.798	41.03	PKFH	32.5	-20.5	53.03	-	-	74	-20.97	18	144	H
* 2.796	29.13	VA1T	32.5	-20.5	41.13	54	-12.87	-	-	18	144	H
* 2.216	40.39	PKFH	31.9	-21.1	51.19	-	-	74	-22.81	245	106	V
* 2.216	29.12	VA1T	31.9	-21.1	39.92	54	-14.08	-	-	245	106	V
* 2.868	39.74	PKFH	32.6	-20.5	51.84	-	-	74	-22.16	182	260	V
* 2.868	29.04	VA1T	32.6	-20.5	41.14	54	-12.86	-	-	182	260	V
* 4.6	37.81	PKFH	34.1	-27.9	44.01	-	-	74	-29.99	166	217	H
* 4.599	26.77	VA1T	34.1	-27.9	32.97	54	-21.03	-	-	166	217	H
* 4.83	36.65	PKFH	34	-27.2	43.45	-	-	74	-30.55	238	339	V
* 4.83	25.91	VA1T	34	-27.2	32.71	54	-21.29	-	-	238	339	V

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

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

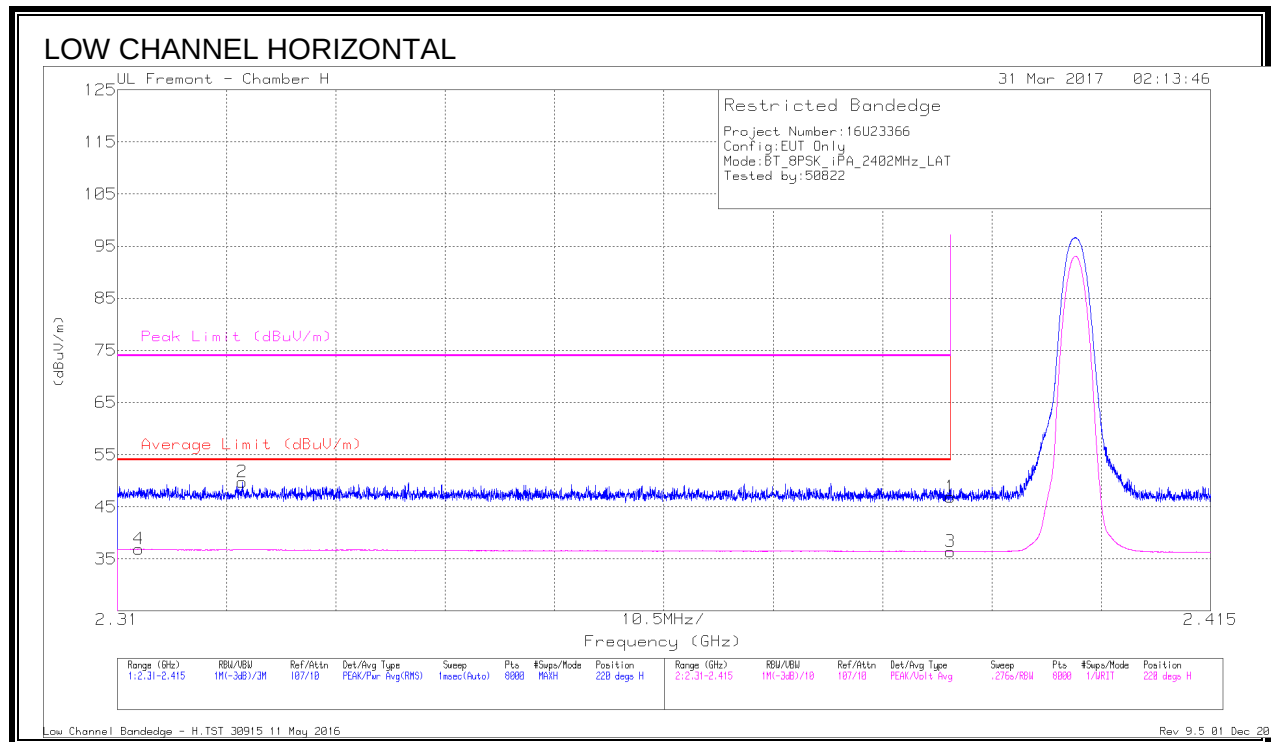
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

FCC Part15 Subpart C 2.4GHz RSE Avg Fix.TST 30554 28 Jun 2016

Rev 9.5 26 Apr 2016

9.9. LAT 3, Plow ENHANCED DATA RATE 8PSK MODULATION

9.9.1. RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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
4	* 2.312	33.68	VA1T	31.6	-28.4	36.88	54	-17.12	-	-	220	198	H
2	* 2.322	46.54	Pk	31.6	-28.4	49.74	-	-	74	-24.26	220	198	H
1	* 2.39	43.38	Pk	31.9	-28.4	46.88	-	-	74	-27.12	220	198	H
3	* 2.39	32.95	VA1T	31.9	-28.4	36.45	54	-17.55	-	-	220	198	H

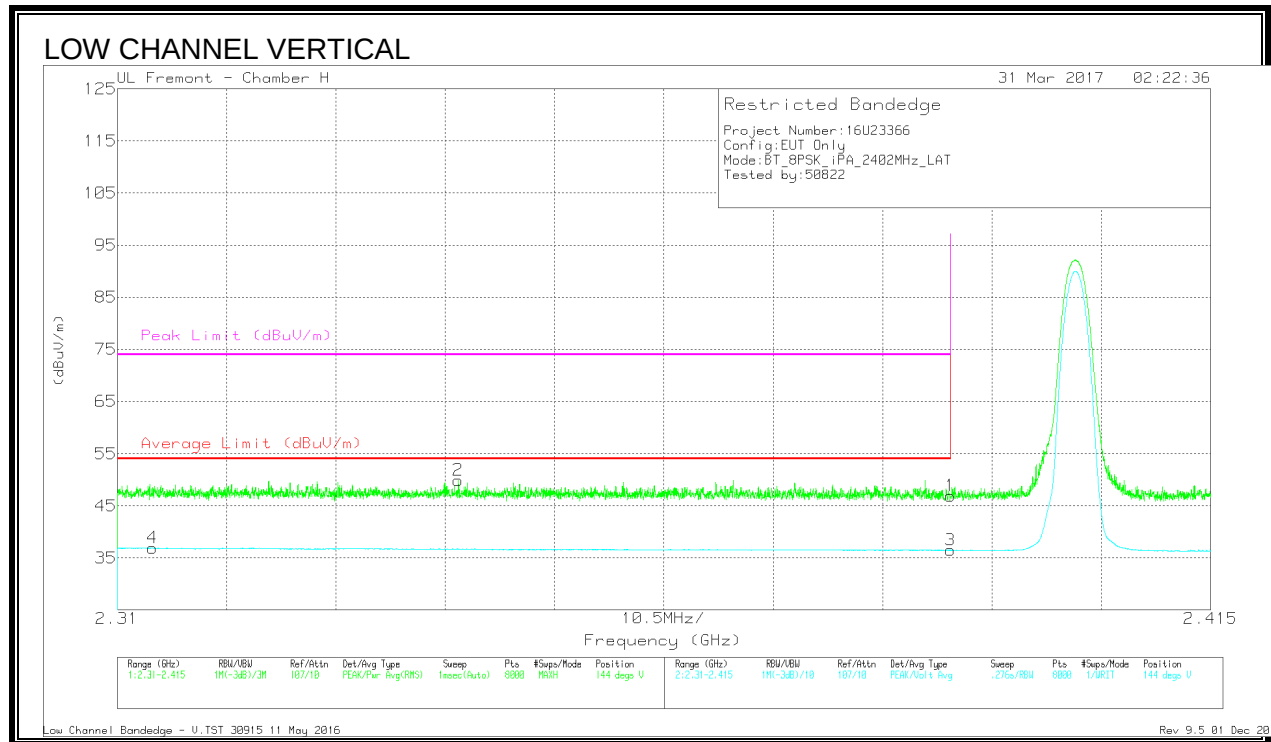
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

Low Channel Bandedge - H.TST 30915 11 May 2016

Rev 9.5 01 Dec 2016



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT120 (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
4	* 2.313	33.72	VA1T	31.6	-28.4	36.92	54	-17.08	-	-	144	367	V
2	* 2.343	46.58	Pk	31.7	-28.4	49.88	-	-	74	-24.12	144	367	V
1	* 2.39	43.36	Pk	31.9	-28.4	46.86	-	-	74	-27.14	144	367	V
3	* 2.39	32.98	VA1T	31.9	-28.4	36.48	54	-17.52	-	-	144	367	V

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

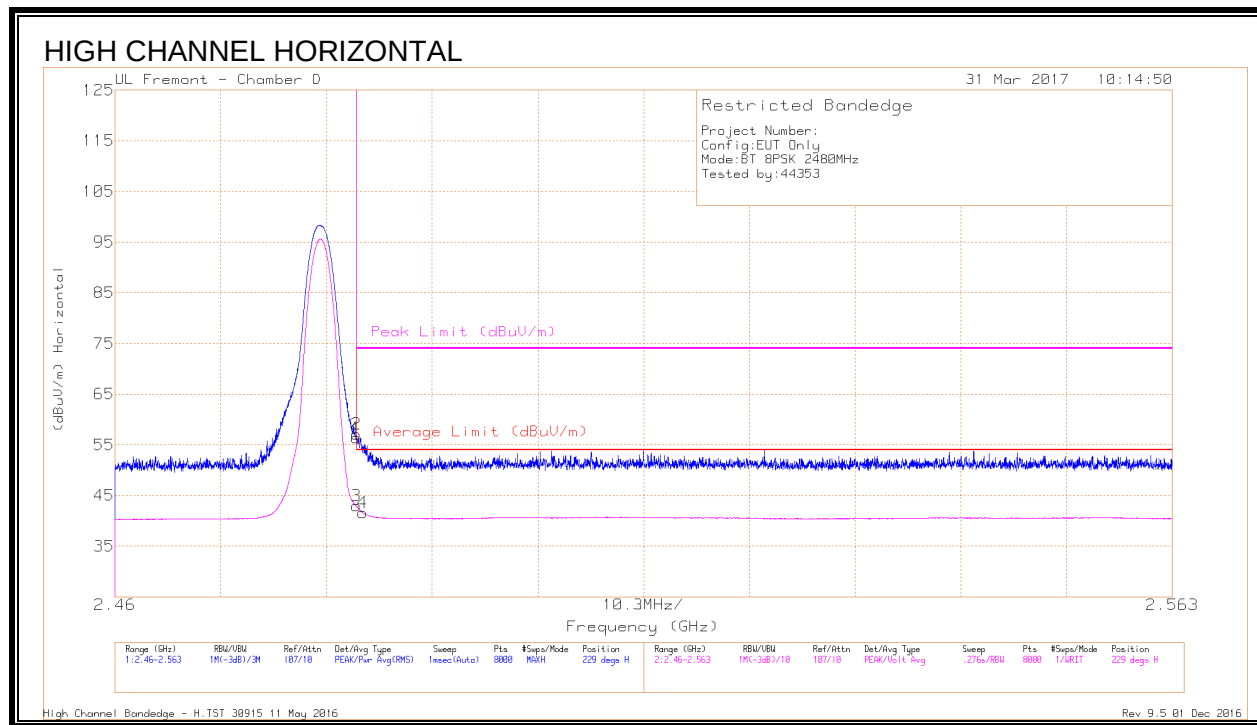
Pk - Peak detector

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

Low Channel Bandedge - V.TST 30915 11 May 2016

Rev 9.5 01 Dec 2016

9.9.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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	44.71	Pk	32.5	-20.8	56.41	-	-	74	-17.59	229	196	H
2	* 2.484	45.4	Pk	32.5	-20.8	57.1	-	-	74	-16.9	229	196	H
3	* 2.484	31.23	VA1T	32.5	-20.8	42.93	54	-11.07	-	-	229	196	H
4	* 2.484	29.88	VA1T	32.5	-20.8	41.58	54	-12.42	-	-	229	196	H

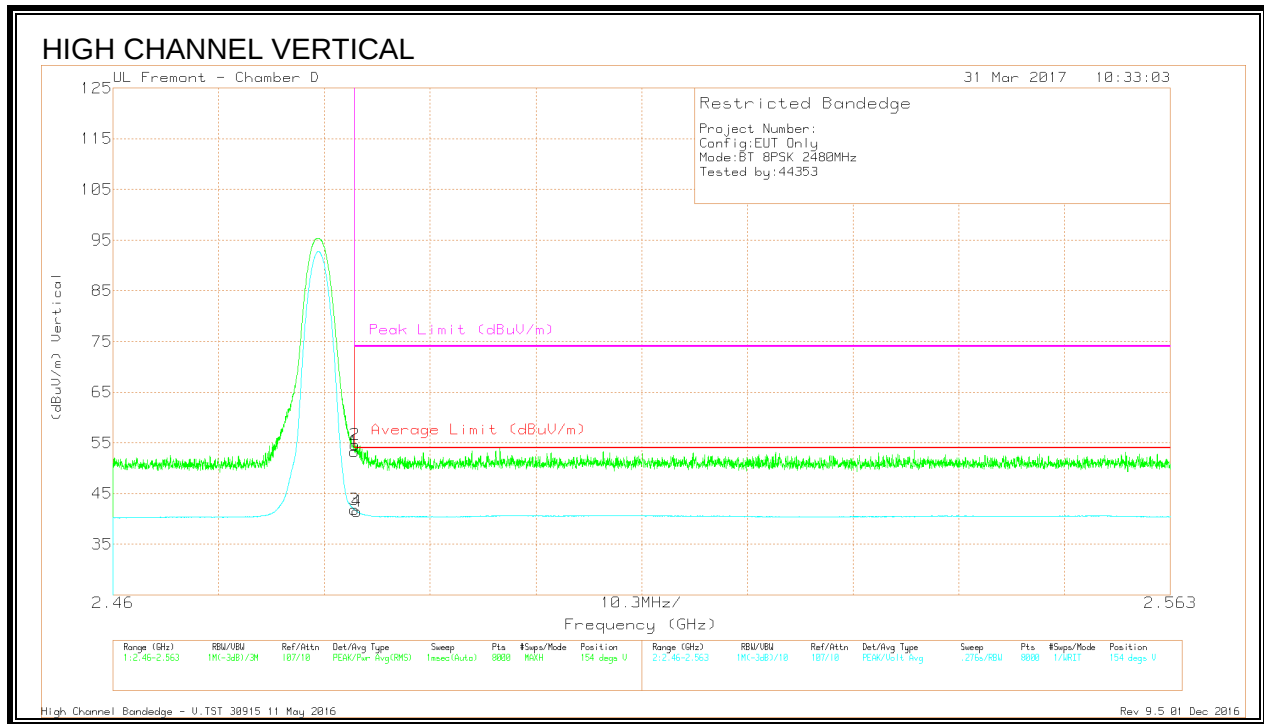
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

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Rev 9.5 01 Dec 2016



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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	41.54	Pk	32.5	-20.8	53.24	-	-	74	-20.76	154	342	V
2	* 2.484	42.96	Pk	32.5	-20.8	54.66	-	-	74	-19.34	154	342	V
3	* 2.484	30.15	VA1T	32.5	-20.8	41.85	54	-12.15	-	-	154	342	V
4	* 2.484	29.73	VA1T	32.5	-20.8	41.43	54	-12.57	-	-	154	342	V

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

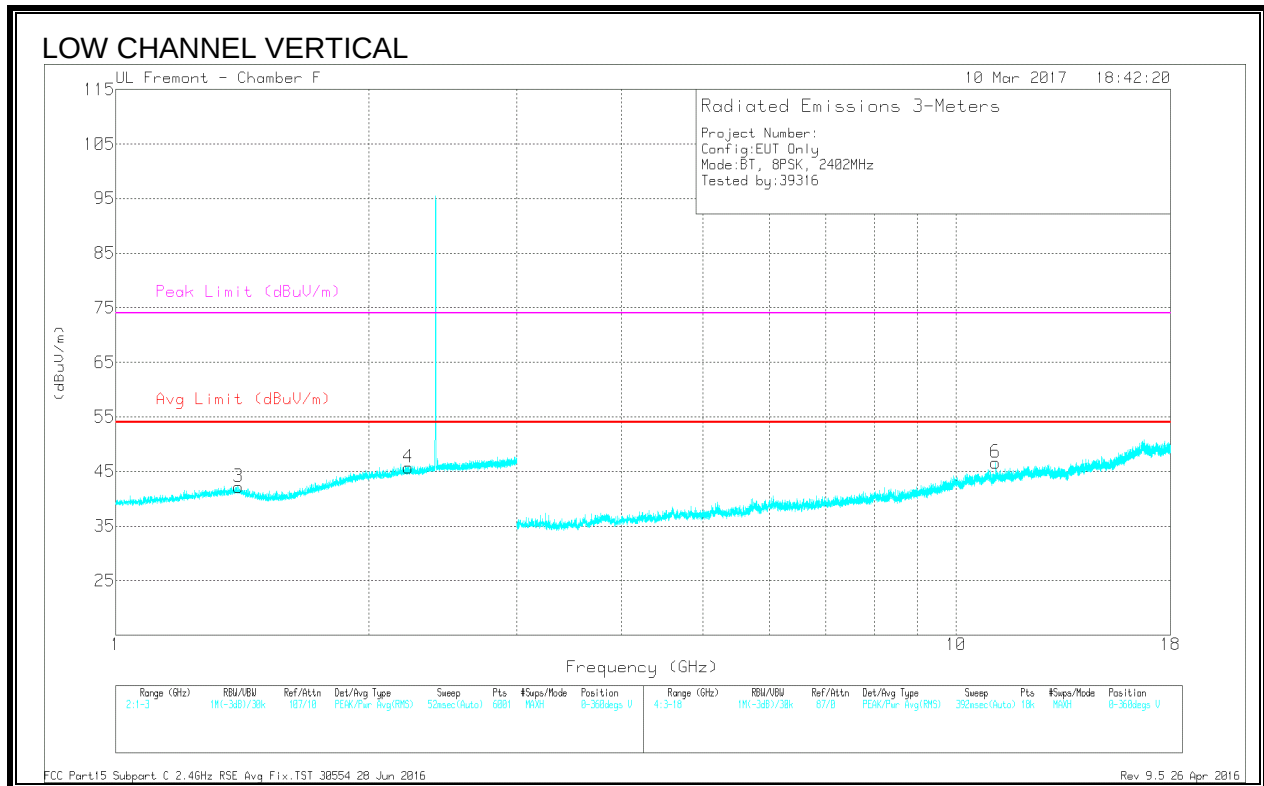
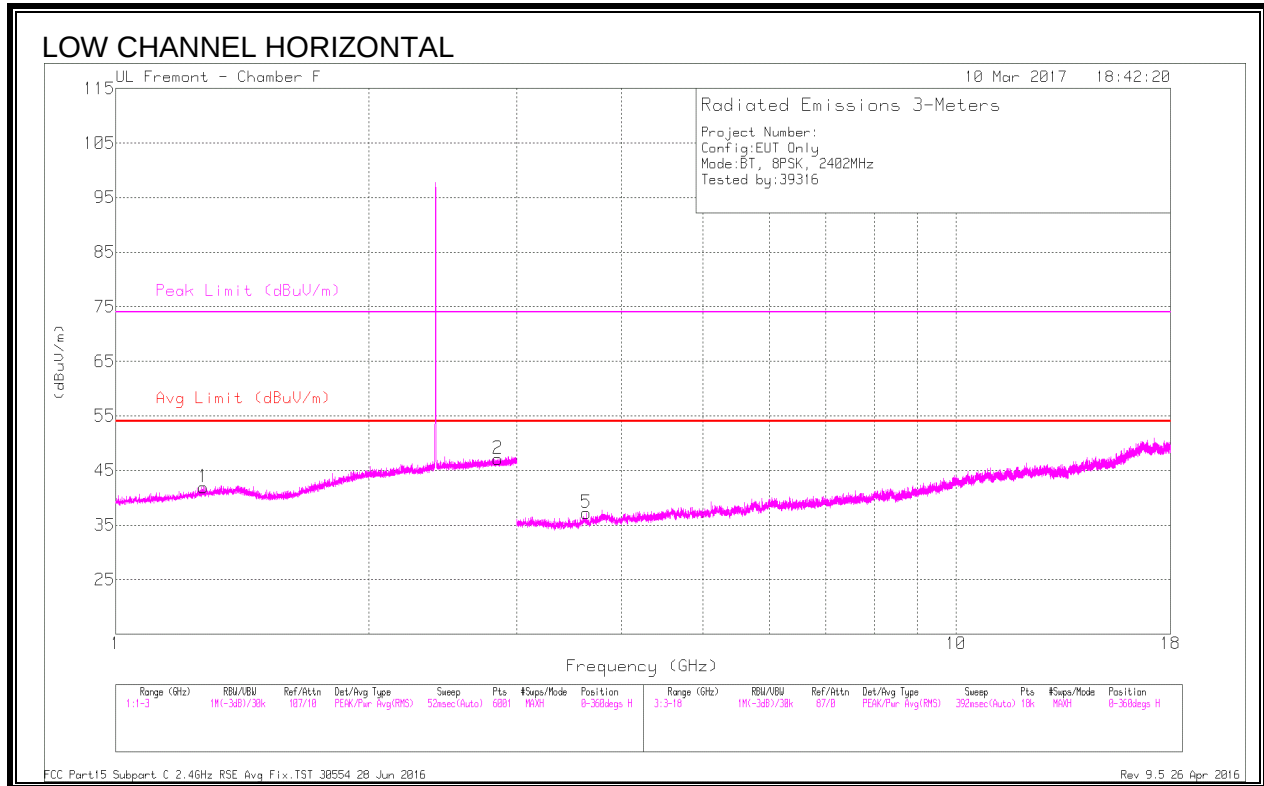
Pk - Peak detector

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

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9.9.3. HARMONICS AND SPURIOUS EMISSIONS



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T344 (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	* 1.272	41.07	PKFH	28.8	-22.3	47.57	-	-	74	-26.43	95	355	H
	* 1.273	29.47	VA1T	28.8	-22.3	35.97	54	-18.03	-	-	95	355	H
2	* 2.852	41	PKFH	32.6	-20.5	53.1	-	-	74	-20.9	67	250	H
	* 2.851	29.05	VA1T	32.6	-20.5	41.15	54	-12.85	-	-	67	250	H
3	* 1.399	40.21	PKFH	29.3	-22	47.51	-	-	74	-26.49	312	308	V
	* 1.4	29.34	VA1T	29.3	-22	36.64	54	-17.36	-	-	312	308	V
4	* 2.23	40.38	PKFH	31.8	-21	51.18	-	-	74	-22.82	179	334	V
	* 2.231	29.15	VA1T	31.8	-21	39.95	54	-14.05	-	-	179	334	V
5	* 3.63	38.42	PKFH	33.1	-29.2	42.32	-	-	74	-31.68	213	317	H
	* 3.631	27.16	VA1T	33.1	-29.2	31.06	54	-22.94	-	-	213	317	H
6	* 11.156	34.75	PKFH	37.9	-21.6	51.05	-	-	74	-22.95	139	243	V
	* 11.157	23.23	VA1T	37.9	-21.6	39.53	54	-14.47	-	-	139	243	V

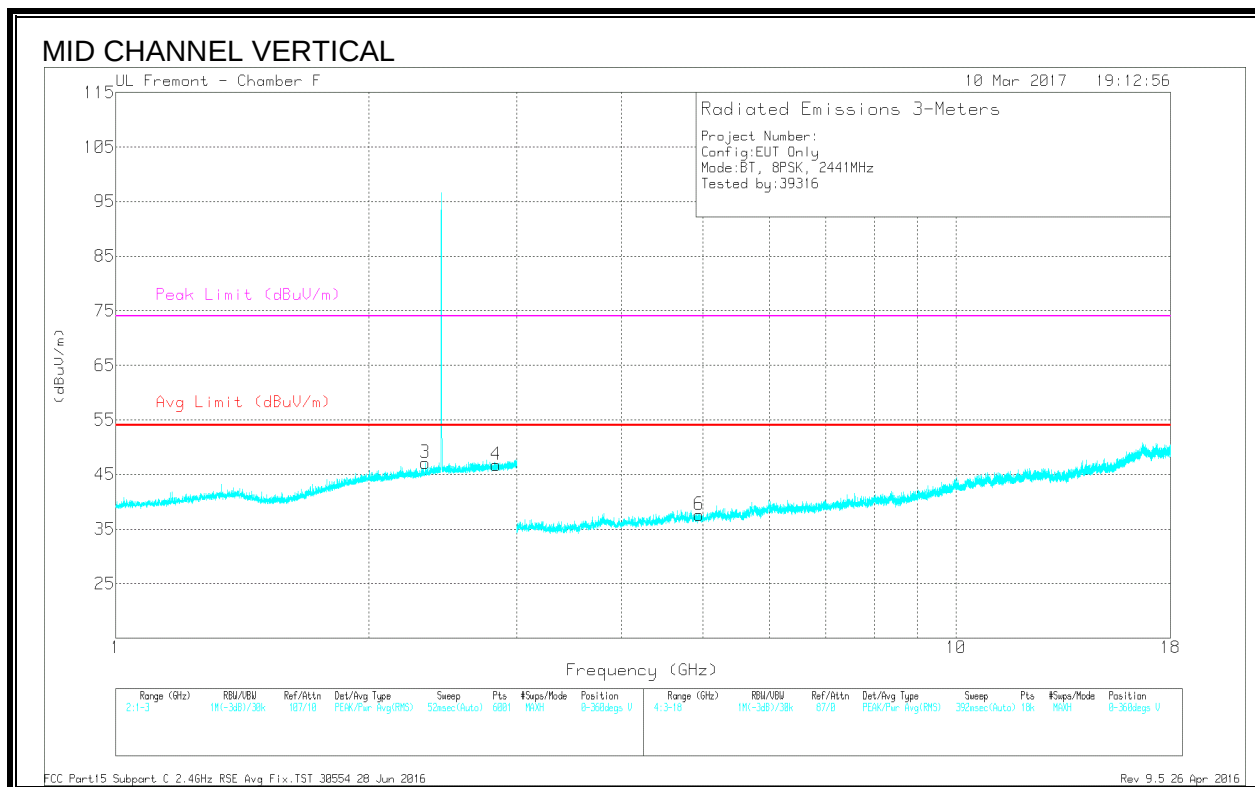
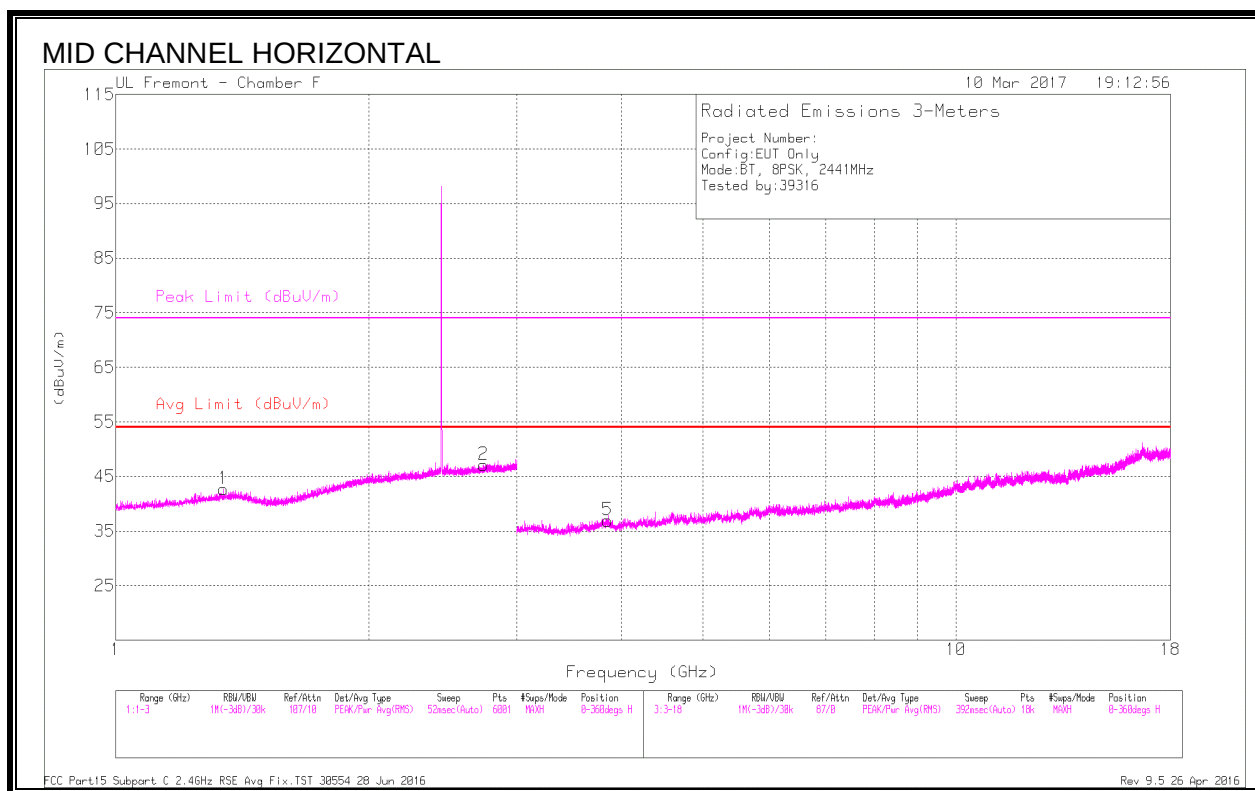
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

FCC Part15 Subpart C 2.4GHz RSE Avg Fix.TST 30554 28 Jun 2016

Rev 9.5 26 Apr 2016



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filt/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	* 1.345	40.73	PKFH	29.1	-22.1	47.73	-	-	74	-26.27	143	348	H
	* 1.344	29.37	VA1T	29.1	-22.1	36.37	54	-17.63	-	-	143	348	H
2	* 2.738	40.97	PKFH	32.4	-20.6	52.77	-	-	74	-21.23	268	151	H
	* 2.741	29.26	VA1T	32.4	-20.7	40.96	54	-13.04	-	-	268	151	H
3	* 2.335	40.43	PKFH	31.9	-21	51.33	-	-	74	-22.67	6	241	V
	* 2.334	29.27	VA1T	31.9	-21	40.17	54	-13.83	-	-	6	241	V
4	* 2.834	41.35	PKFH	32.5	-20.5	53.35	-	-	74	-20.65	357	233	V
	* 2.833	29.13	VA1T	32.5	-20.5	41.13	54	-12.87	-	-	357	233	V
5	* 3.854	38.51	PKFH	33.4	-28.3	43.61	-	-	74	-30.39	331	278	H
	* 3.852	26.82	VA1T	33.4	-28.3	31.92	54	-22.08	-	-	331	278	H
6	* 4.948	37.94	PKFH	34.1	-28.4	43.64	-	-	74	-30.36	188	217	V
	* 4.947	26.88	VA1T	34.1	-28.4	32.58	54	-21.42	-	-	188	217	V

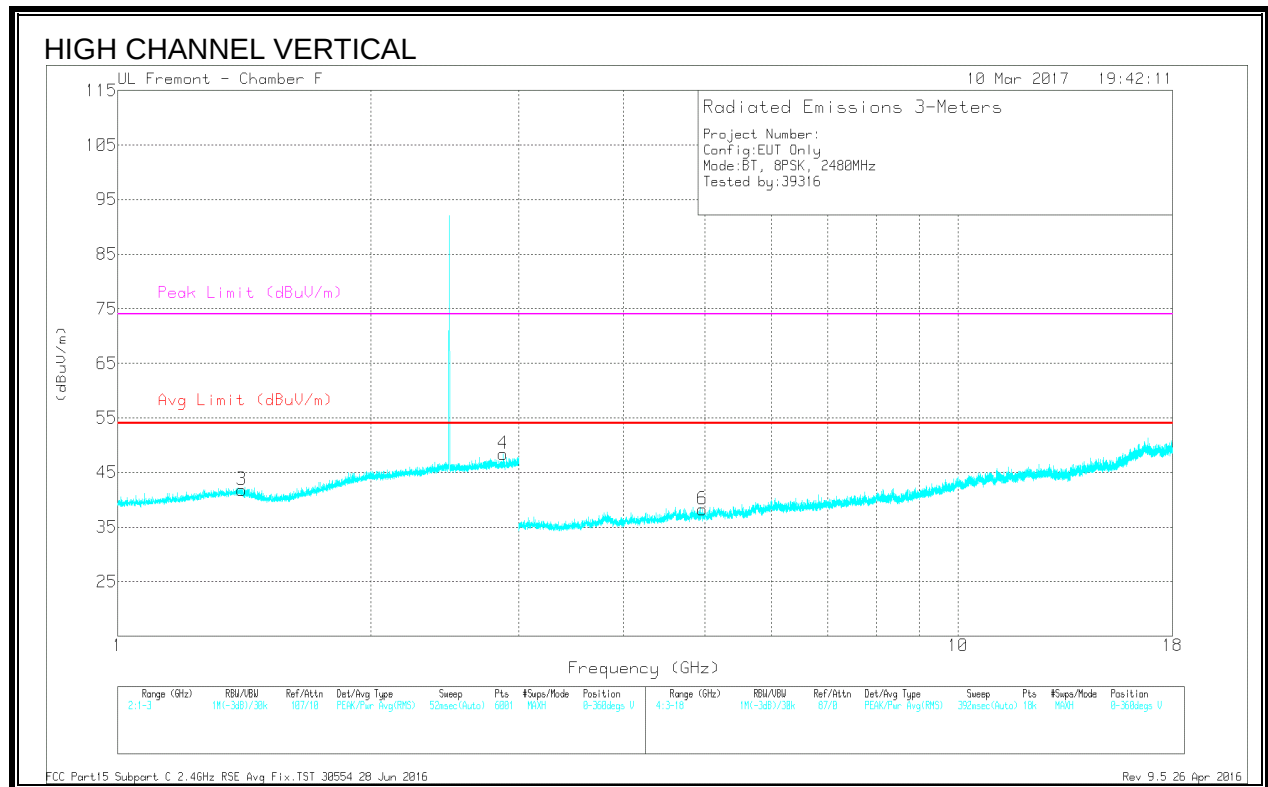
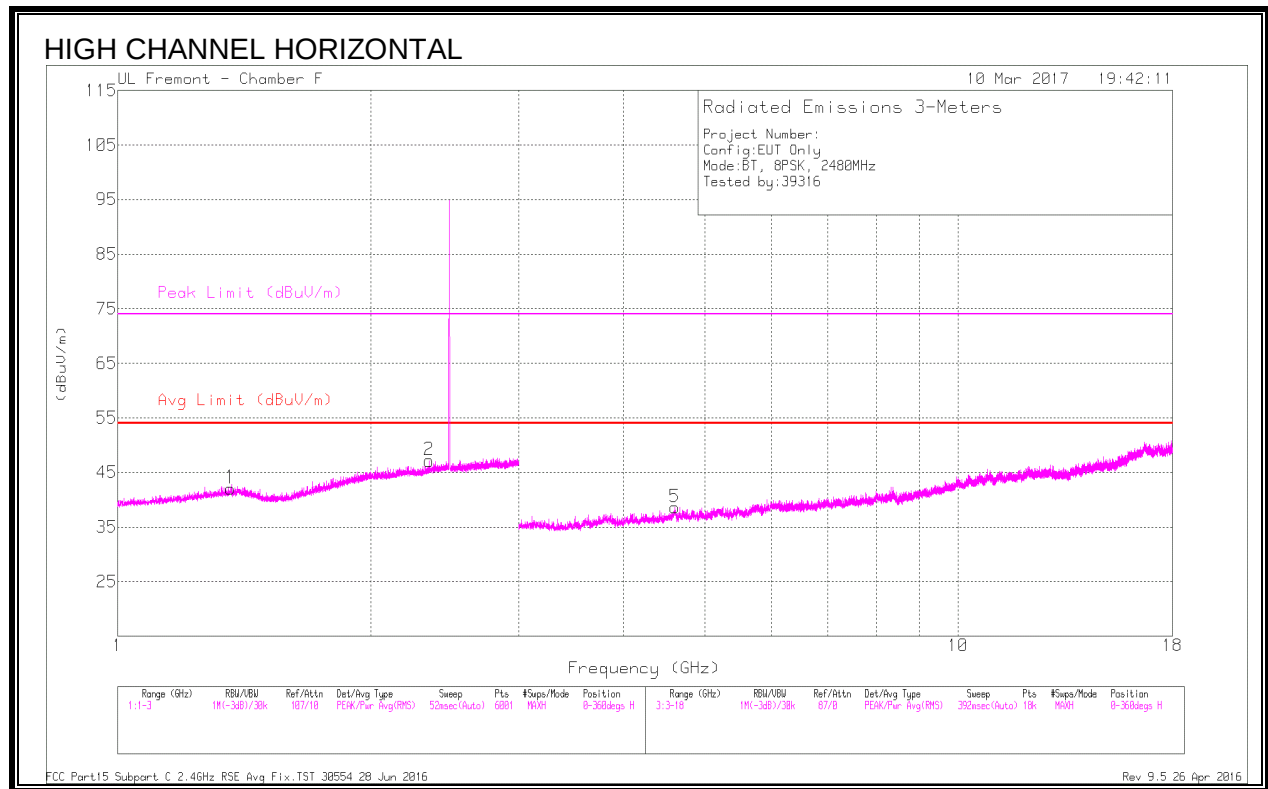
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

FCC Part15 Subpart C 2.4GHz RSE Avg Fix.TST 30554 28 Jun 2016

Rev 9.5 26 Apr 2016



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T344 (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	* 1.36	40.53	PKFH	29.2	-22.1	47.63	-	-	74	-26.37	56	332	H
	* 1.362	29.33	VA1T	29.2	-22.1	36.43	54	-17.57	-	-	56	332	H
2	* 2.348	40.63	PKFH	31.9	-21	51.53	-	-	74	-22.47	35	332	H
	* 2.347	29.26	VA1T	31.9	-21	40.16	54	-13.84	-	-	35	332	H
3	* 1.402	41.11	PKFH	29.3	-22	48.41	-	-	74	-25.59	91	260	V
	* 1.402	29.33	VA1T	29.3	-22	36.63	54	-17.37	-	-	91	260	V
4	* 2.877	40.49	PKFH	32.6	-20.4	52.69	-	-	74	-21.31	112	184	V
	* 2.879	29.05	VA1T	32.6	-20.4	41.25	54	-12.75	-	-	112	184	V
5	* 4.601	37.68	PKFH	34.1	-27.9	43.88	-	-	74	-30.12	127	199	H
	* 4.6	26.86	VA1T	34.1	-27.9	33.06	54	-20.94	-	-	127	199	H
6	* 4.601	39.24	PKFH	34.1	-27.9	45.44	-	-	74	-28.56	228	325	H
	* 4.6	26.81	VA1T	34.1	-27.9	33.01	54	-20.99	-	-	228	325	H

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

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

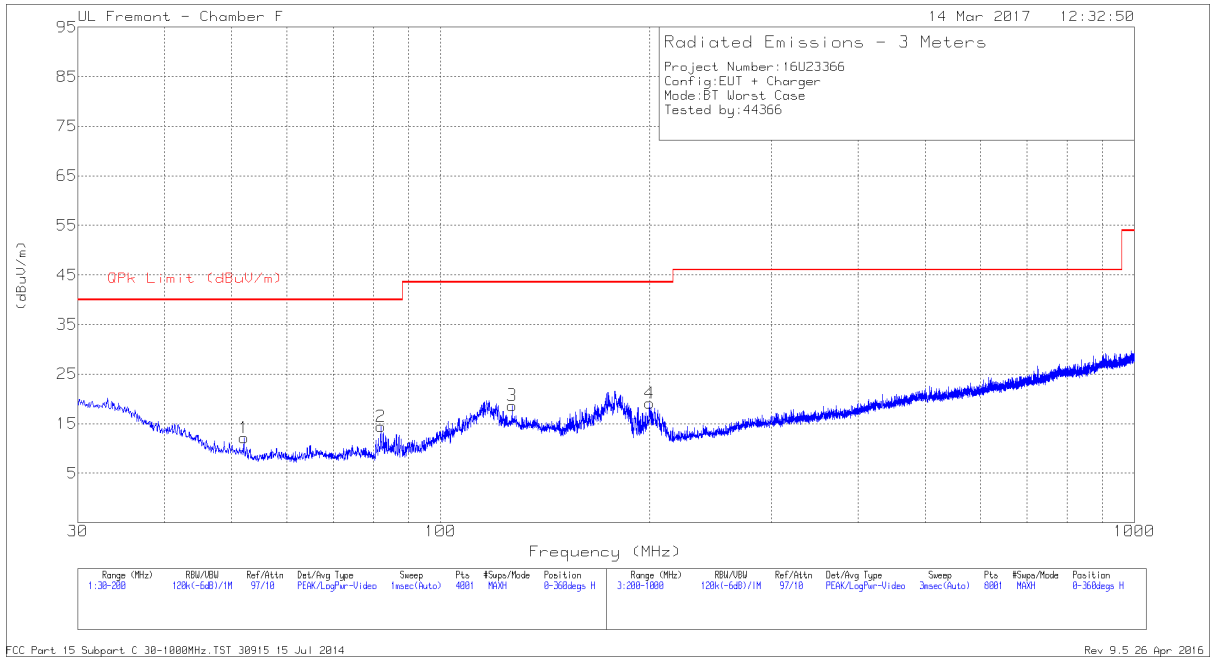
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

FCC Part15 Subpart C 2.4GHz RSE Avg Fix.TST 30554 28 Jun 2016

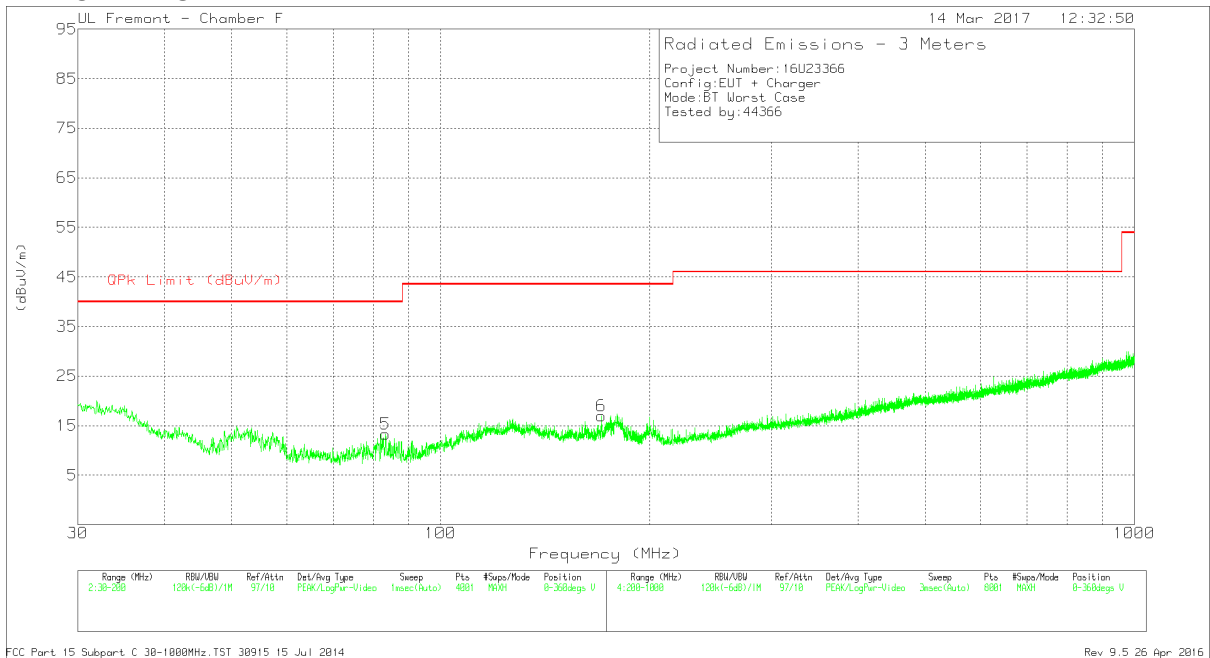
Rev 9.5 26 Apr 2016

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

HORIZONTAL PLOT



VERTICAL PLOT



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T122 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	52.1	31.69	Pk	12.1	-31.6	12.19	40	-27.81	0-360	399	H
2	82.02	34.16	Pk	11.7	-31.4	14.46	40	-25.54	0-360	299	H
3	* 126.82	31.48	Pk	18.1	-30.9	18.68	43.52	-24.84	0-360	299	H
5	83.3375	33.03	Pk	11.7	-31.4	13.33	40	-26.67	0-360	100	V
6	* 170.463	31.82	Pk	15.9	-30.7	17.02	43.52	-26.5	0-360	100	V
4	200.1	32.93	Pk	16.7	-30.5	19.13	43.52	-24.39	0-360	99	H

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

Pk - Peak detector

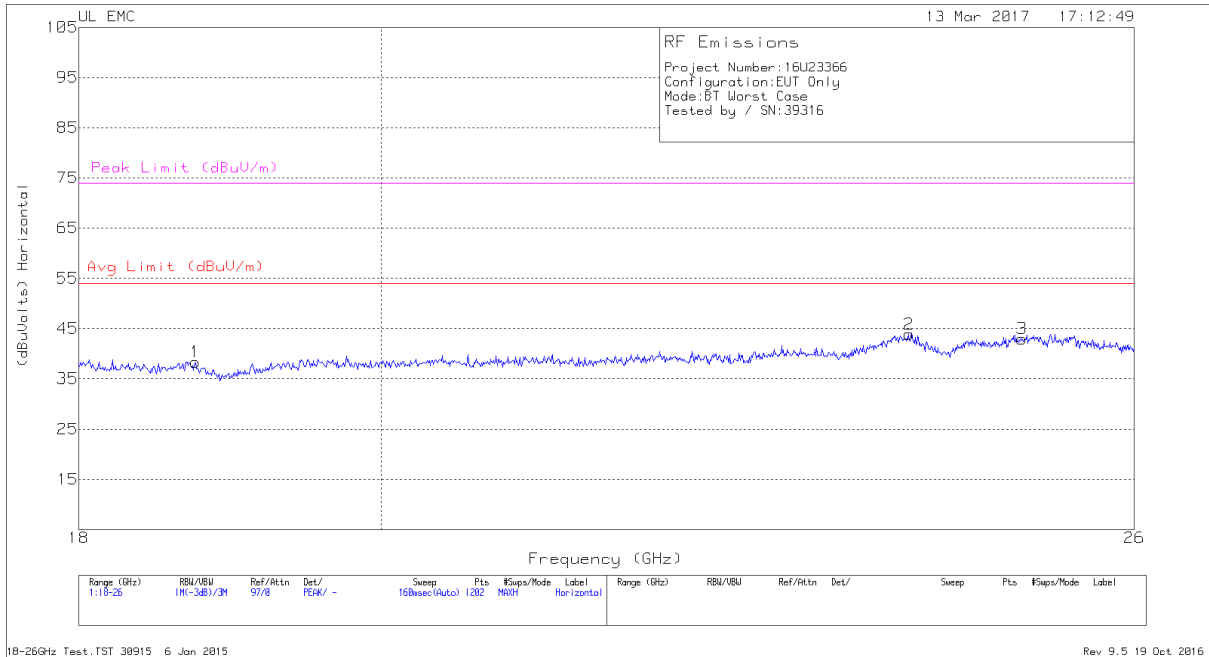
FCC Part15C 30-1000MHz.TST 30915 15 Jul 2014

Rev 9.5 01 Dec 2016

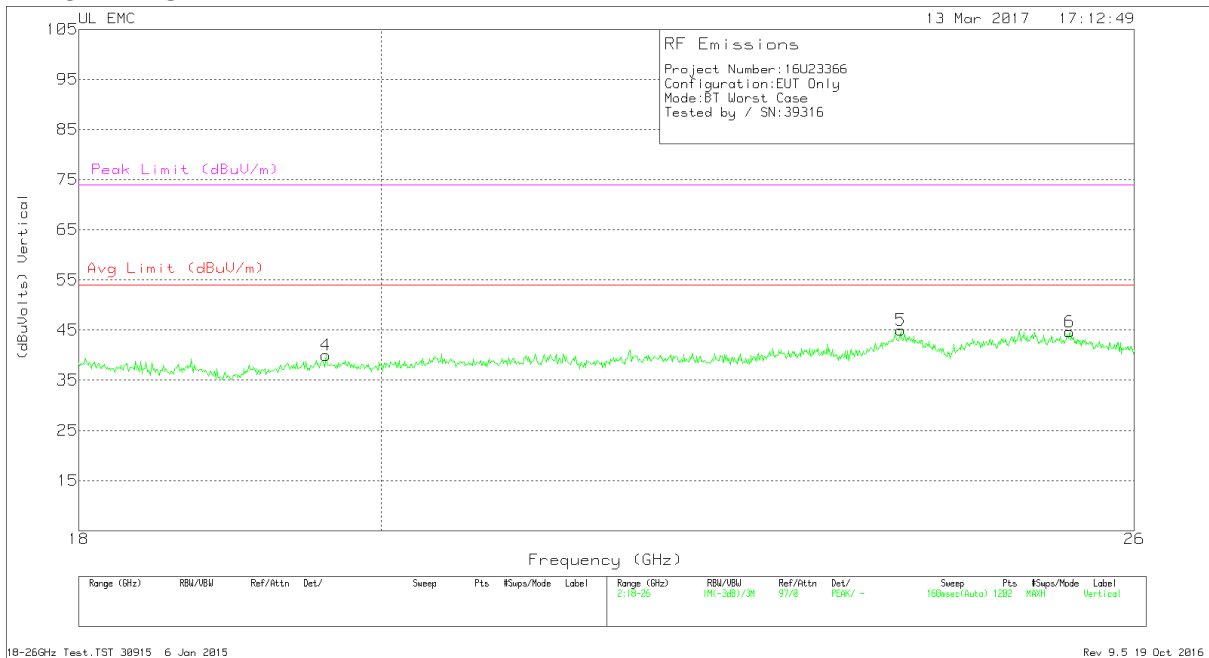
9.11. WORST-CASE ABOVE 18 GHz

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

HORIZONTAL PLOT



VERTICAL PLOT



Data

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T449 (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	18.746	40.03	Pk	32.4	-24.6	-9.5	38.33	54	-15.67	74	-35.67
2	24.035	43.63	Pk	34	-24.3	-9.5	43.83	54	-10.17	74	-30.17
3	25.001	42.9	Pk	34.2	-24.6	-9.5	43	54	-11	74	-31
4	19.619	41.7	Pk	32.7	-24.9	-9.5	40	54	-14	74	-34
5	23.968	44.7	Pk	34	-24.2	-9.5	45	54	-9	74	-29
6	25.42	44.17	Pk	34.3	-24.3	-9.5	44.67	54	-9.33	74	-29.33

Pk - Peak detector

18-26GHz Test.TST 30915 6 Jan 2015
Rev 9.5 19 Oct 2016

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

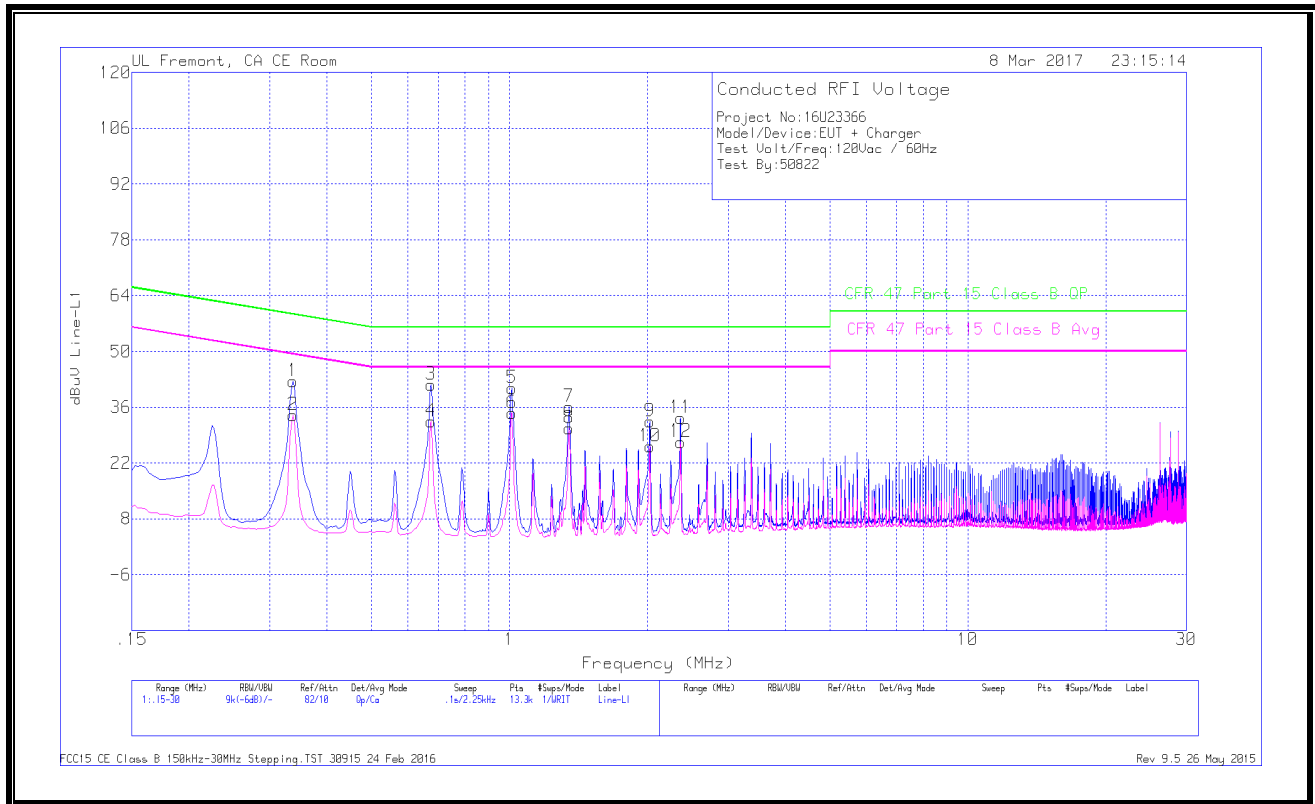
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

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

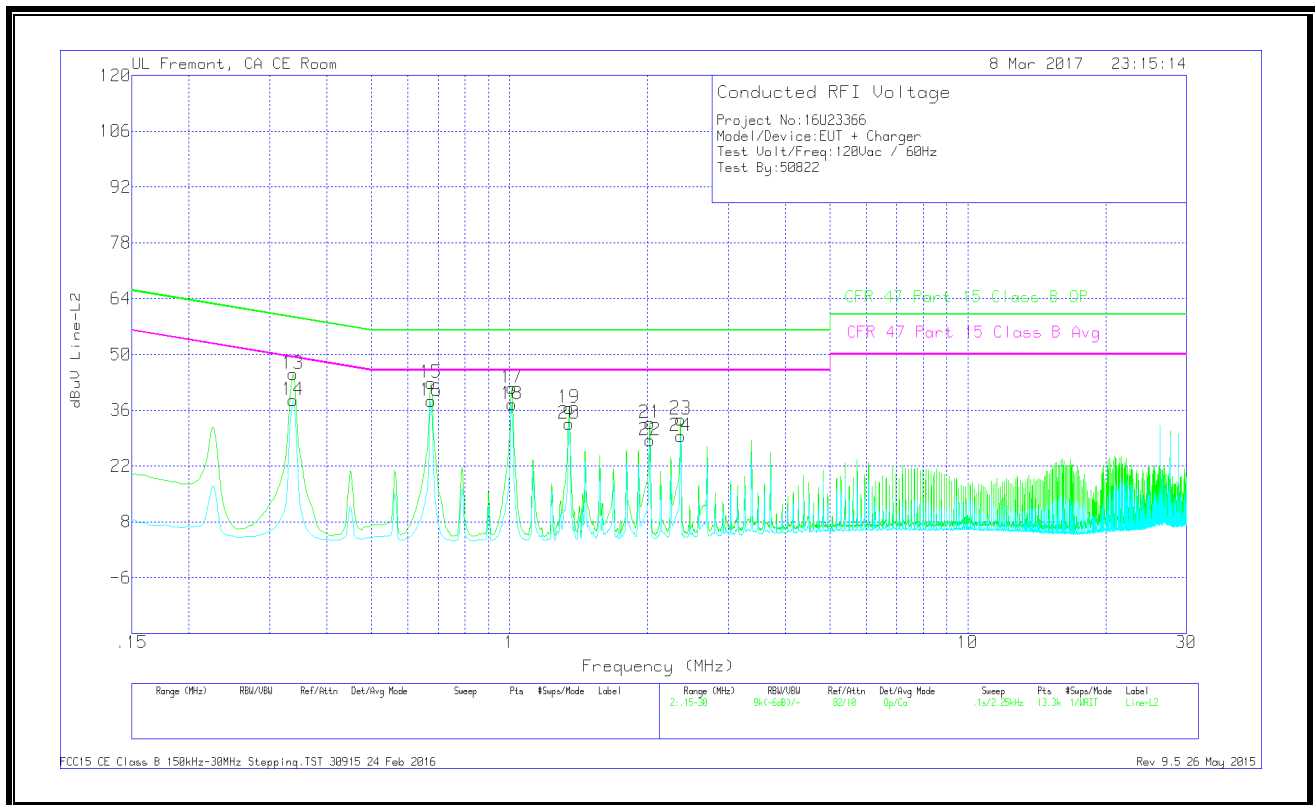
LINE 1 RESULTS



WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	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	.33675	32.25	Qp	0	.1	10.1	42.45	59.28	-16.83	-	-
2	.33675	23.75	Ca	0	.1	10.1	33.95	-	-	49.28	-15.33
3	.67425	31.53	Qp	0	.1	10.1	41.73	56	-14.27	-	-
4	.67425	22.22	Ca	0	.1	10.1	32.42	-	-	46	-13.58
5	1.01175	30.62	Qp	0	.1	10.1	40.82	56	-15.18	-	-
6	1.01175	24.3	Ca	0	.1	10.1	34.5	-	-	46	-11.5
7	1.34925	25.93	Qp	0	.1	10.1	36.13	56	-19.87	-	-
8	1.347	20.44	Ca	0	.1	10.1	30.64	-	-	46	-15.36
9	2.02425	22.28	Qp	0	.1	10.1	32.48	56	-23.52	-	-
10	2.02425	15.96	Ca	0	.1	10.1	26.16	-	-	46	-19.84
11	2.36175	23.08	Qp	0	.1	10.1	33.28	56	-22.72	-	-
12	2.36175	17.11	Ca	0	.1	10.1	27.31	-	-	46	-18.69

LINE 2 RESULTS

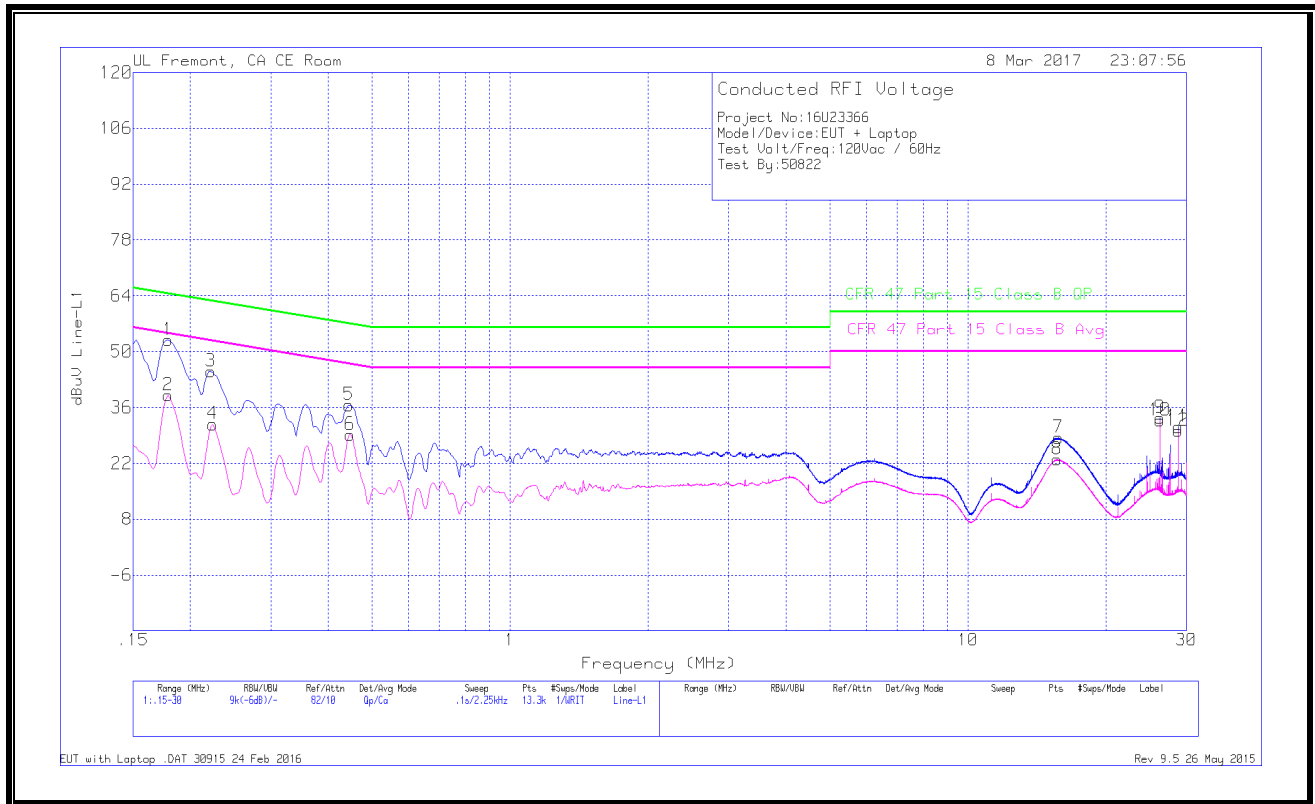


WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	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	.33675	34.92	Qp	0	.1	10.1	45.12	59.28	-14.16	-	-
14	.33675	28.3	Ca	0	.1	10.1	38.5	-	-	49.28	-10.78
15	.67425	32.64	Qp	0	.1	10.1	42.84	56	-13.16	-	-
16	.67425	28.09	Ca	0	.1	10.1	38.29	-	-	46	-7.71
17	1.01175	31.53	Qp	0	.1	10.1	41.73	56	-14.27	-	-
18	1.01175	27.28	Ca	0	.1	10.1	37.48	-	-	46	-8.52
19	1.34925	26.39	Qp	0	.1	10.1	36.59	56	-19.41	-	-
20	1.34925	22.47	Ca	0	.1	10.1	32.67	-	-	46	-13.33
21	2.02425	22.6	Qp	0	.1	10.1	32.8	56	-23.2	-	-
22	2.02425	18.19	Ca	0	.1	10.1	28.39	-	-	46	-17.61
23	2.36175	23.54	Qp	0	.1	10.1	33.74	56	-22.26	-	-
24	2.36175	19.35	Ca	0	.1	10.1	29.55	-	-	46	-16.45

10.2. EUT POWERED BY HOST PC VIA USB CABLE

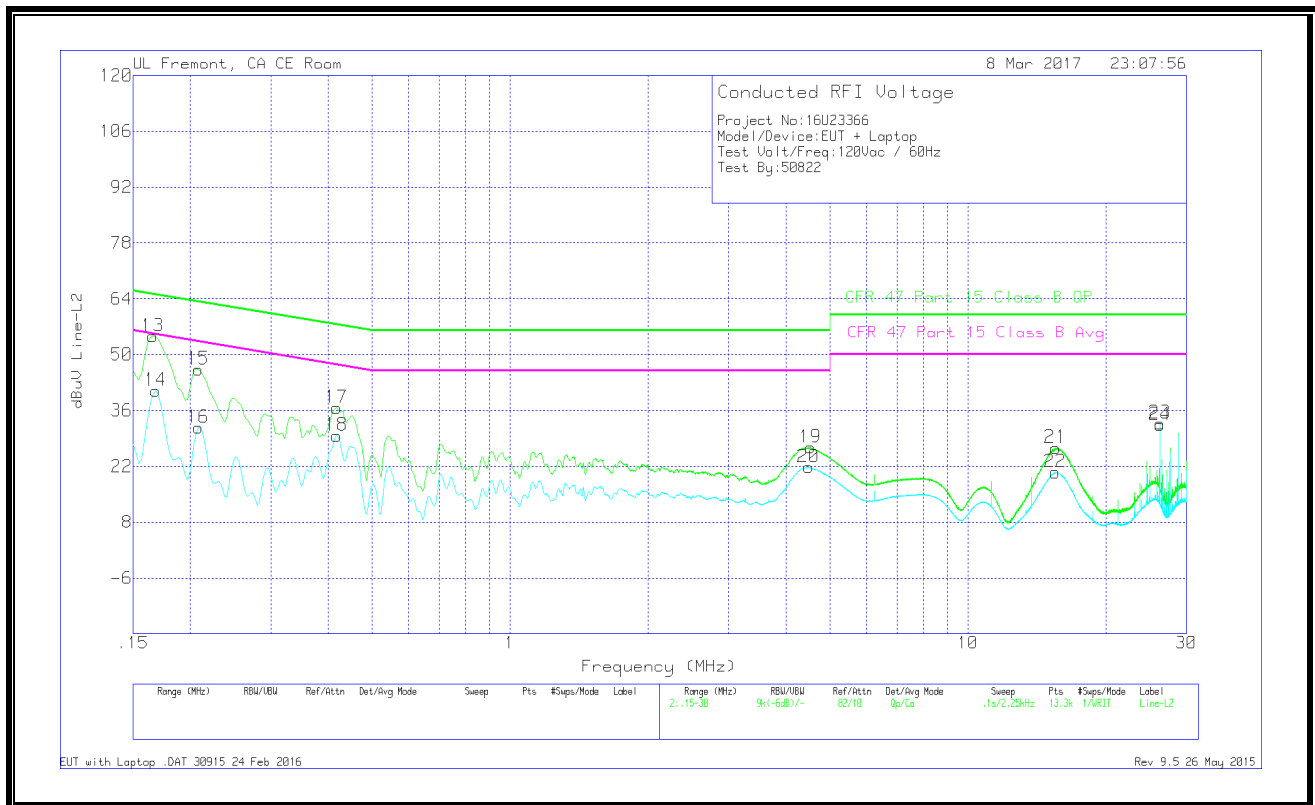
LINE 1 RESULTS



WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	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	.17925	42.71	Qp	0	.1	10.1	52.91	64.52	-11.61	-	-
2	.17925	28.82	Ca	0	.1	10.1	39.02	-	-	54.52	-15.5
3	.222	34.86	Qp	0	.1	10.1	45.06	62.74	-17.68	-	-
4	.22425	21.6	Ca	0	.1	10.1	31.8	-	-	52.66	-20.86
5	.44475	26.39	Qp	0	.1	10.1	36.59	56.97	-20.38	-	-
6	.447	18.96	Ca	0	.1	10.1	29.16	-	-	46.93	-17.77
7	15.7403	17.89	Qp	0	.2	10.3	28.39	60	-31.61	-	-
8	15.666	12.45	Ca	0	.2	10.3	22.95	-	-	50	-27.05
9	26.25	22.5	Qp	.1	.3	10.5	33.4	60	-26.6	-	-
10	26.25	21.8	Ca	.1	.3	10.5	32.7	-	-	50	-17.3
11	28.7498	20.23	Qp	.1	.3	10.5	31.13	60	-28.87	-	-
12	28.7498	19.28	Ca	.1	.3	10.5	30.18	-	-	50	-19.82

LINE 2 RESULTS



WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	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	.16575	44.53	Qp	0	0	10.1	54.63	65.17	-10.54	-	-
14	.168	30.87	Ca	0	0	10.1	40.97	-	-	55.06	-14.09
15	.2085	36.09	Qp	0	.1	10.1	46.29	63.26	-16.97	-	-
16	.2085	21.47	Ca	0	.1	10.1	31.67	-	-	53.26	-21.59
17	.41775	26.48	Qp	0	.1	10.1	36.68	57.49	-20.81	-	-
18	.41775	19.51	Ca	0	.1	10.1	29.71	-	-	47.49	-17.78
19	4.52625	16.54	Qp	0	.1	10.1	26.74	56	-29.26	-	-
20	4.4835	11.56	Ca	0	.1	10.1	21.76	-	-	46	-24.24
21	15.5378	16.23	Qp	0	.2	10.2	26.63	60	-33.37	-	-
22	15.4995	10.13	Ca	0	.2	10.2	20.53	-	-	50	-29.47
23	26.25	21.89	Qp	.1	.3	10.5	32.79	60	-27.21	-	-
24	26.25	21.48	Ca	.1	.3	10.5	32.38	-	-	50	-17.62