

9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-GEN, Section 8.9 and 8.10.

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

TEST PROCEDURE

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

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

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

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

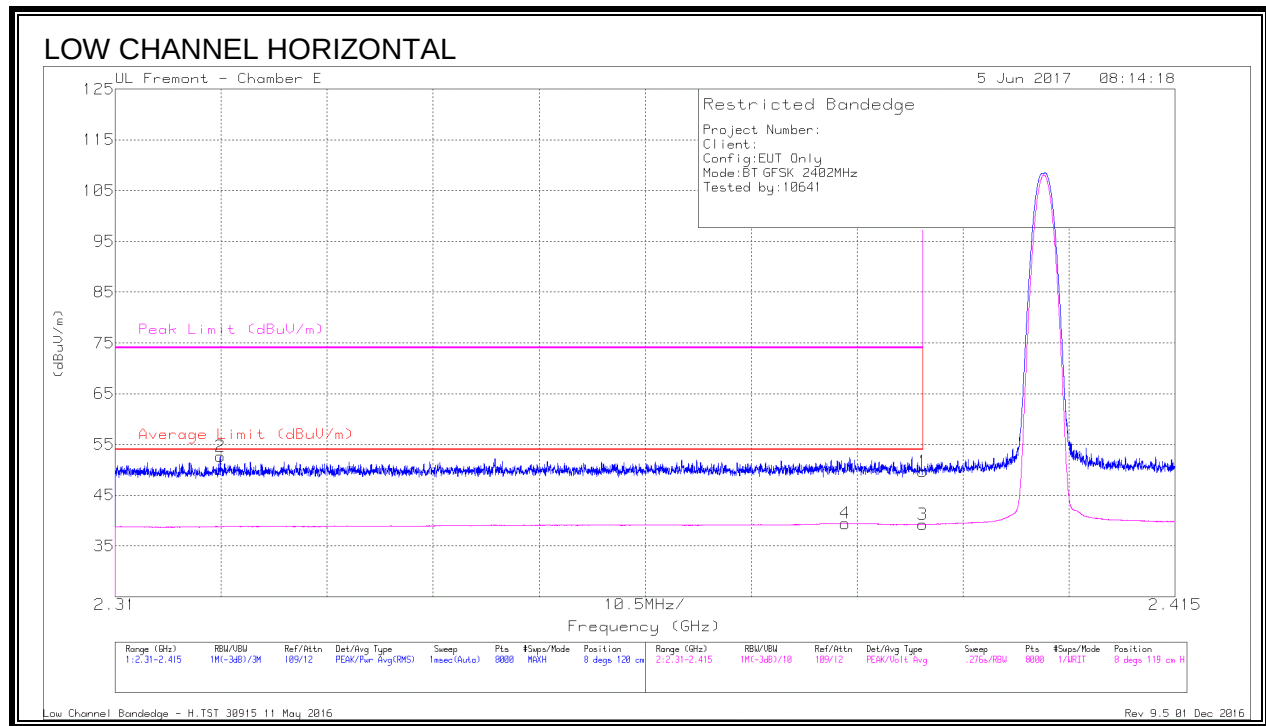
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak→ this is a note from Radiated automation software. When the frequency is below 1G, software is using RB=100kHz; when the frequency is above 1G, software is using RB=1MHz.

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

RESULTS

9.2. UAT1, Pmax BASIC DATA RATE GFSK MODULATION

9.2.1. RESTRICTED BANDEDGE (LOW CHANNEL)

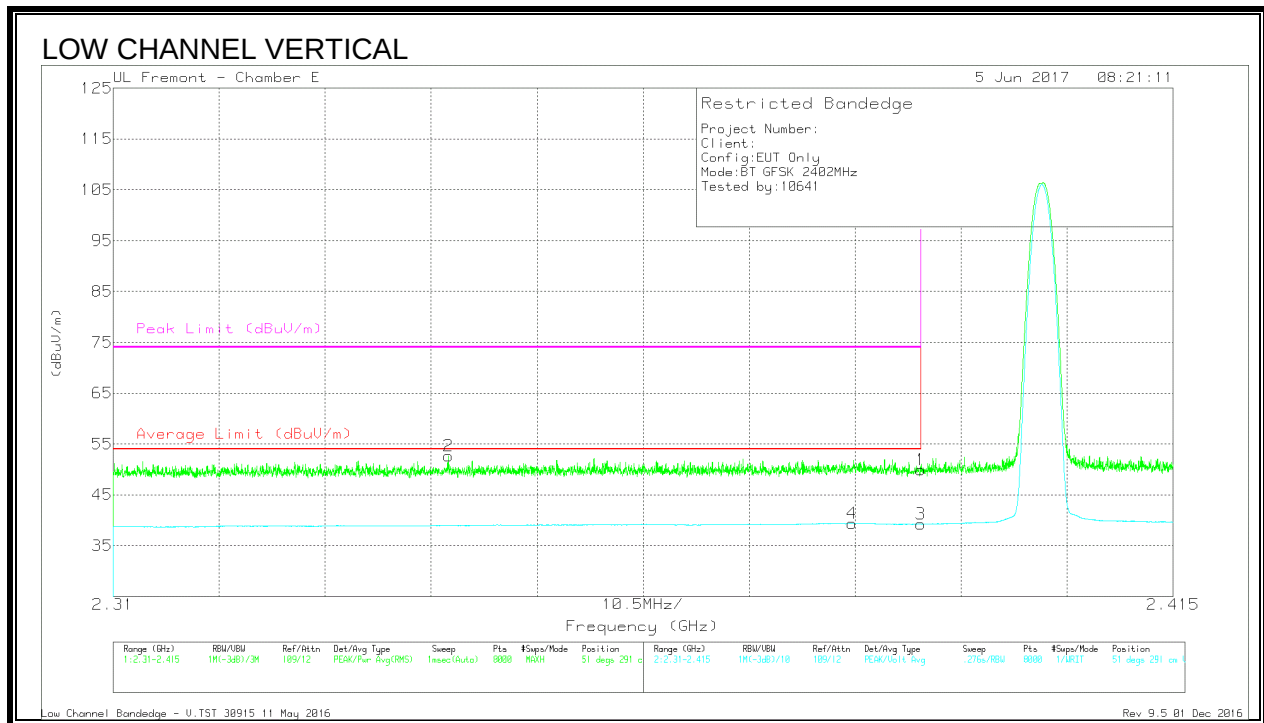


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.32	40.31	Pk	32.1	-19.8	52.61	-	-	74	-21.39	8	120	H
4	* 2.382	26.73	VA1T	32.2	-19.5	39.43	54	-14.57	-	-	8	119	H
1	* 2.39	37.15	Pk	32.2	-19.7	49.65	-	-	74	-24.35	8	120	H
3	* 2.39	26.74	VA1T	32.2	-19.7	39.24	54	-14.76	-	-	8	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



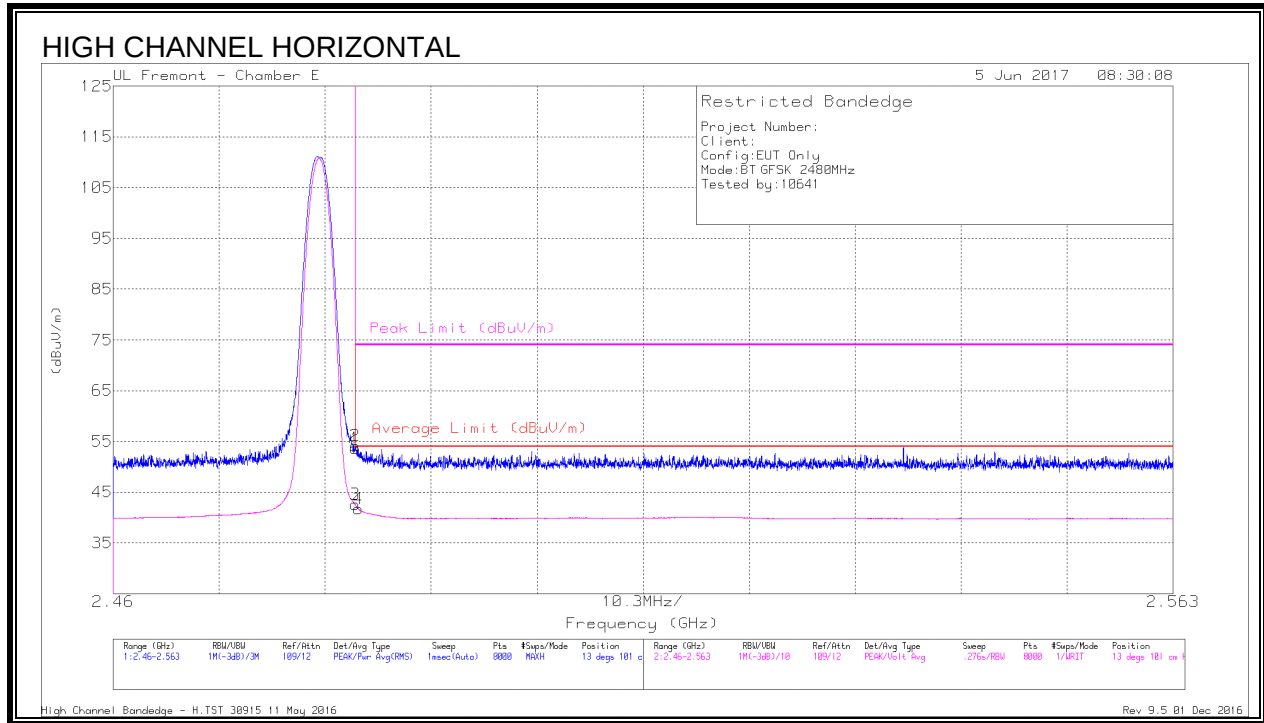
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.42	Pk	32.2	-19.7	49.92	-	-	74	-24.08	51	291	V
2	* 2.343	40.26	Pk	32.1	-19.7	52.66	-	-	74	-21.34	51	291	V
3	* 2.39	26.71	VA1T	32.2	-19.7	39.21	54	-14.79	-	-	51	291	V
4	* 2.383	26.72	VA1T	32.2	-19.5	39.42	54	-14.58	-	-	51	291	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

9.2.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)

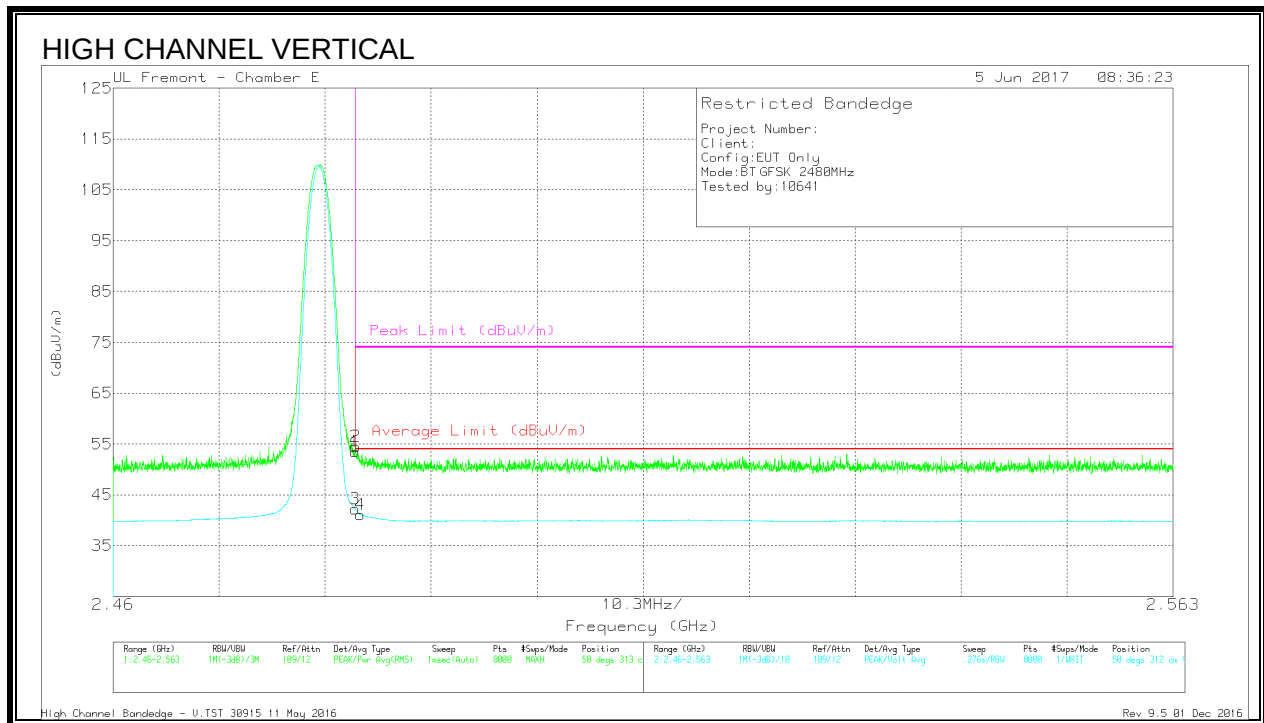


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.7	Pk	32.7	-19.7	53.7	-	-	74	-20.3	13	101	H
2	* 2.484	41.11	Pk	32.7	-19.7	54.11	-	-	74	-19.89	13	101	H
3	* 2.484	29.6	VA1T	32.7	-19.7	42.6	54	-11.4	-	-	13	101	H
4	* 2.484	28.69	VA1T	32.7	-19.7	41.69	54	-12.31	-	-	13	101	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



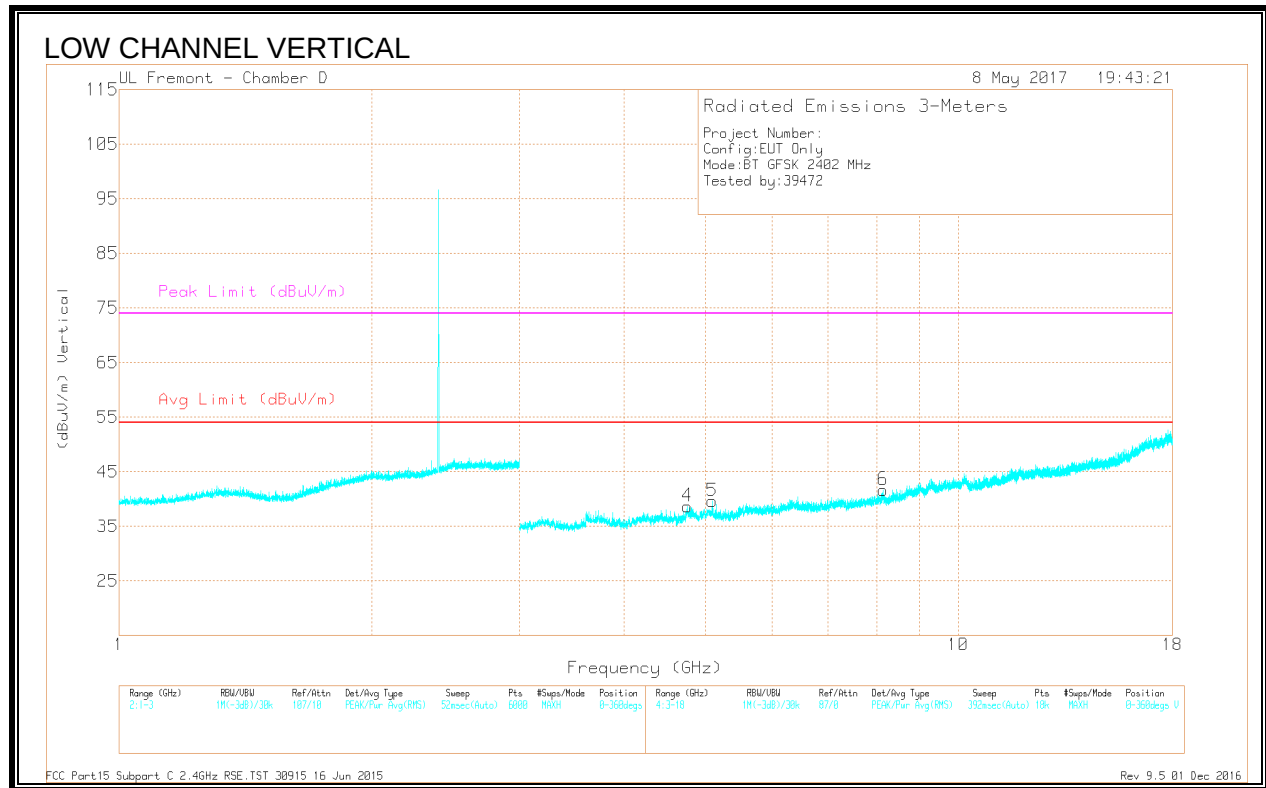
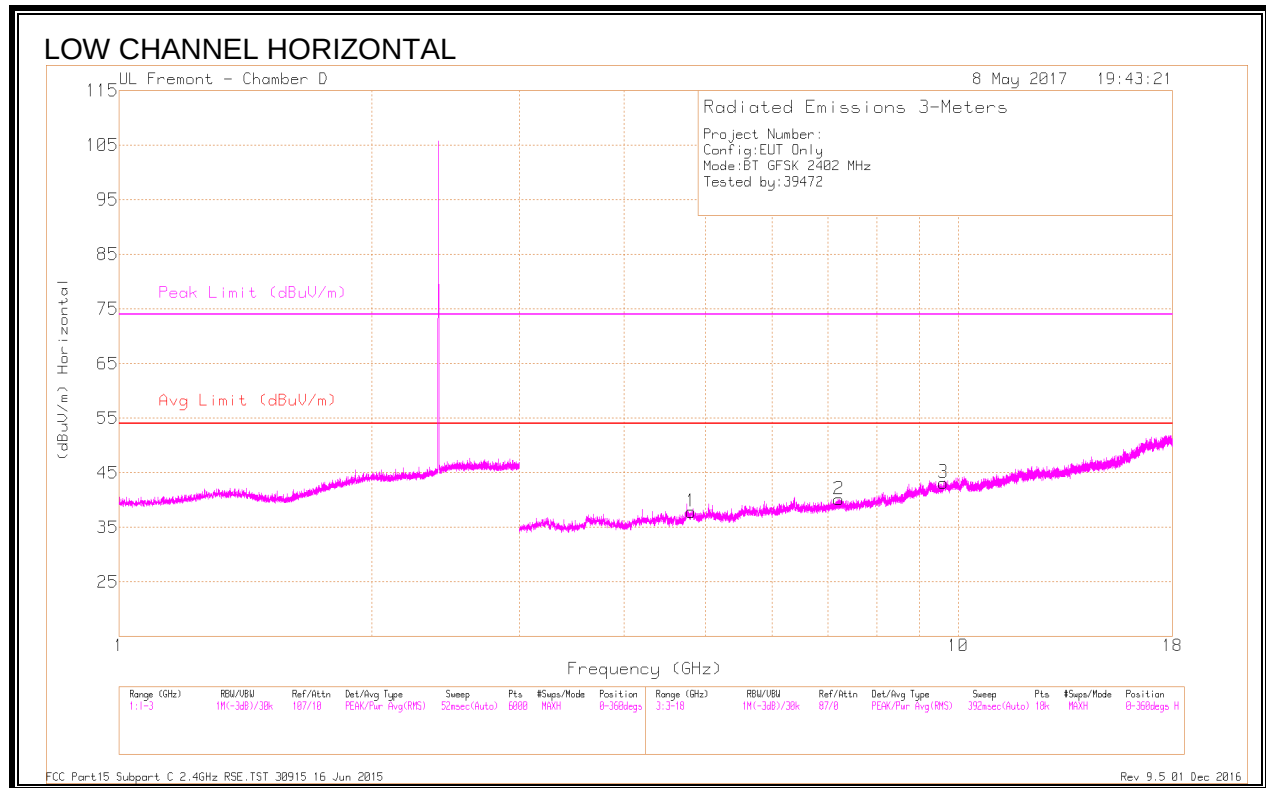
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.484	40.48	Pk	32.7	-19.7	53.48	-	-	74	-20.52	50	313	V
2	* 2.484	41.49	Pk	32.7	-19.7	54.49	-	-	74	-19.51	50	313	V
3	* 2.484	29.25	VA1T	32.7	-19.7	42.25	54	-11.75	-	-	50	312	V
4	* 2.484	28.14	VA1T	32.7	-19.7	41.14	54	-12.86	-	-	50	312	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

9.2.3. HARMONICS AND SPURIOUS EMISSIONS



Marker	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cb l/Filtr/P ad (dB)	Correct ed Reading (dBuV/ m)	Avg Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.804	37.77	PKFH	34.1	-26.8	45.07	-	-	74	-28.93	4	257	H
	* 4.804	24.89	VA1T	34.1	-26.8	32.19	54	-21.81	-	-	4	257	H
2	7.206	34.99	PKFH	35.8	-25	45.79	-	-	-	-	335	199	H
3	9.606	33.32	PKFH	37	-21	49.32	-	-	-	-	264	250	H
4	* 4.803	36.18	PKFH	34.1	-26.8	43.48	-	-	74	-30.52	99	282	V
	* 4.804	24.88	VA1T	34.1	-26.8	32.18	54	-21.82	-	-	99	282	V
5	* 5.091	37.54	PKFH	34.3	-26.7	45.14	-	-	74	-28.86	350	231	V
	* 5.094	25.23	VA1T	34.3	-26.8	32.73	54	-21.27	-	-	350	231	V
6	* 8.142	33.9	PKFH	35.9	-23	46.8	-	-	74	-27.2	213	270	V
	* 8.144	22.29	VA1T	35.9	-23	35.19	54	-18.81	-	-	213	270	V

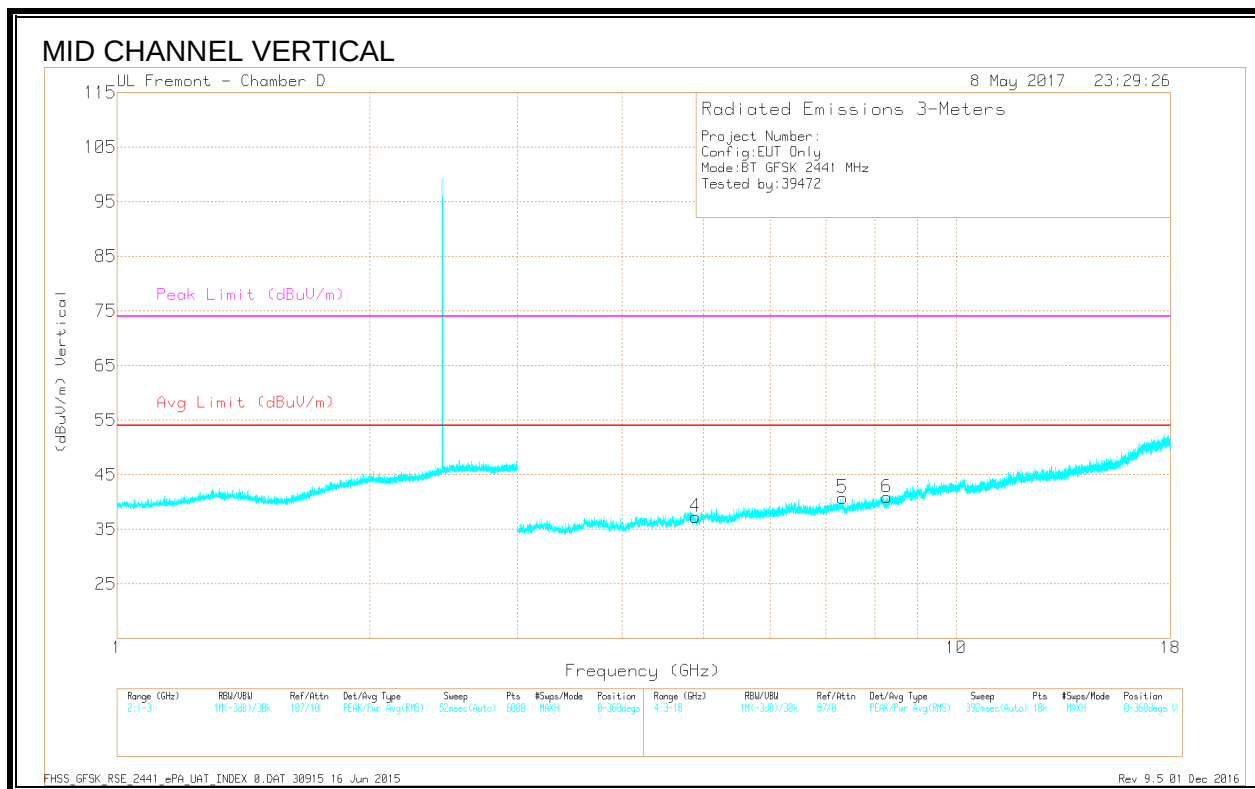
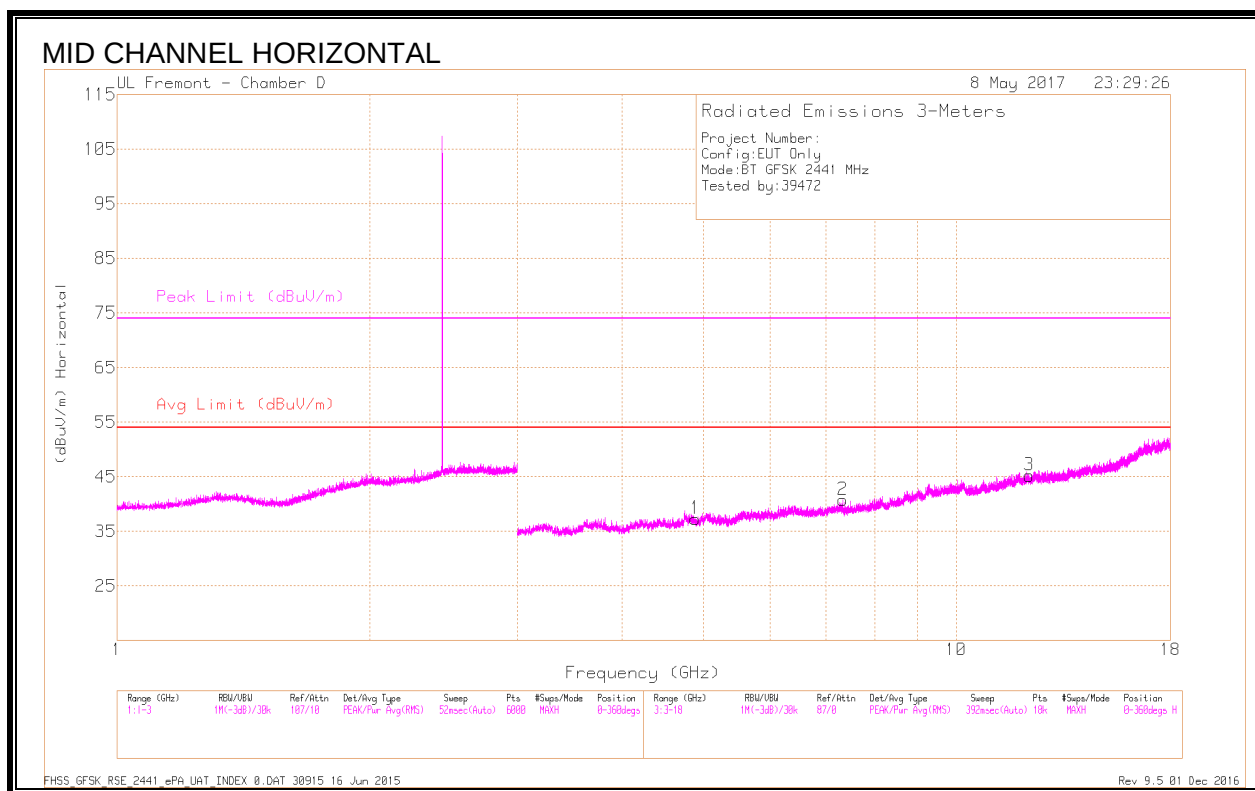
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 01 Dec 2016



Marker	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cb l/Filtr/P ad (dB)	Correct ed Reading (dBuV/ m)	Avg Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.883	36.5	PKFH	34.1	-28.1	42.5	-	-	74	-31.5	187	108	H
	* 4.882	25.02	VA1T	34.1	-28	31.12	54	-22.88	-	-	187	108	H
2	* 7.325	35.21	PKFH	35.7	-25.1	45.81	-	-	74	-28.19	172	386	H
	* 7.321	23.57	VA1T	35.7	-25.3	33.97	54	-20.03	-	-	172	386	H
3	* 12.204	33.45	PKFH	39	-21	51.45	-	-	74	-22.55	142	201	H
	* 12.206	21.56	VA1T	39	-21	39.56	54	-14.44	-	-	142	201	H
4	* 4.882	37.49	PKFH	34.1	-28	43.59	-	-	74	-30.41	120	393	V
	* 4.882	26.38	VA1T	34.1	-28	32.48	54	-21.52	-	-	120	393	V
5	* 7.324	35.07	PKFH	35.7	-25.1	45.67	-	-	74	-28.33	220	234	V
	* 7.323	23.54	VA1T	35.7	-25.2	34.04	54	-19.96	-	-	220	234	V
6	* 8.261	34.62	PKFH	35.9	-24.4	46.12	-	-	74	-27.88	12	102	V
	* 8.261	23.05	VA1T	35.9	-24.4	34.55	54	-19.45	-	-	12	102	V

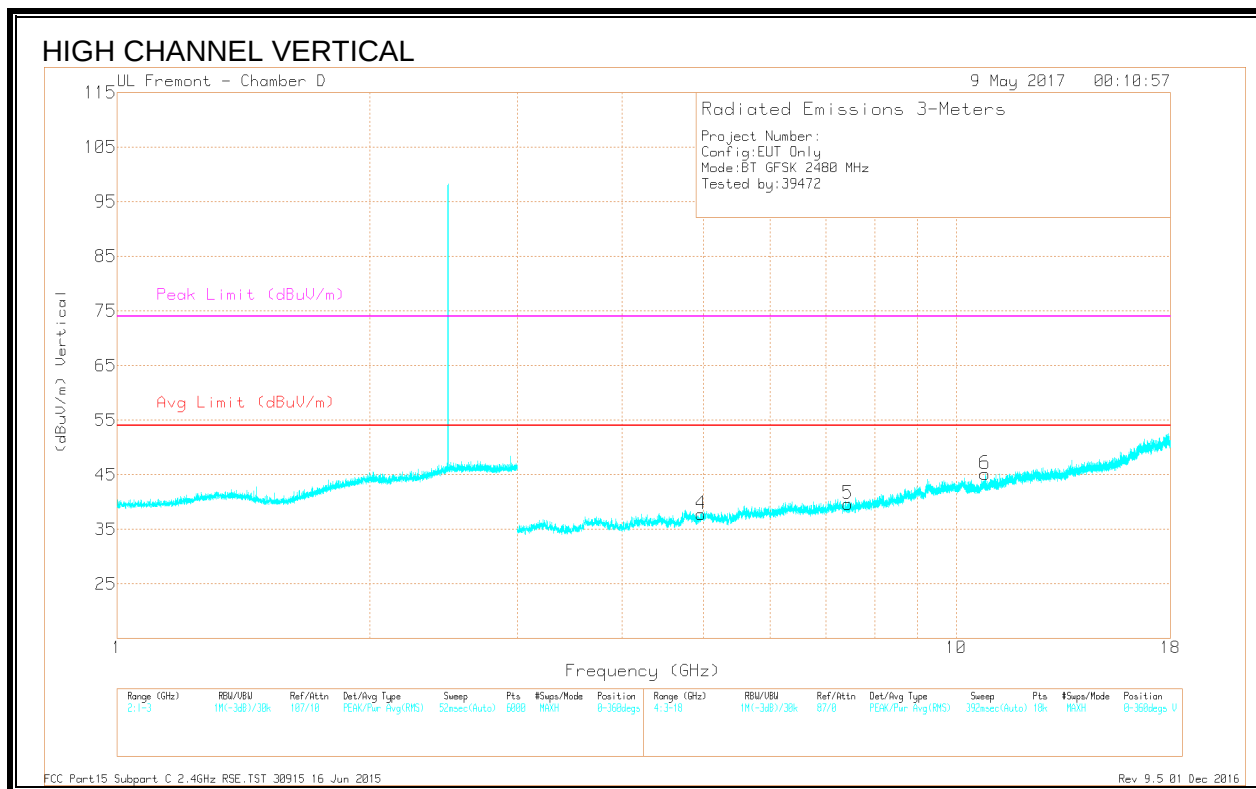
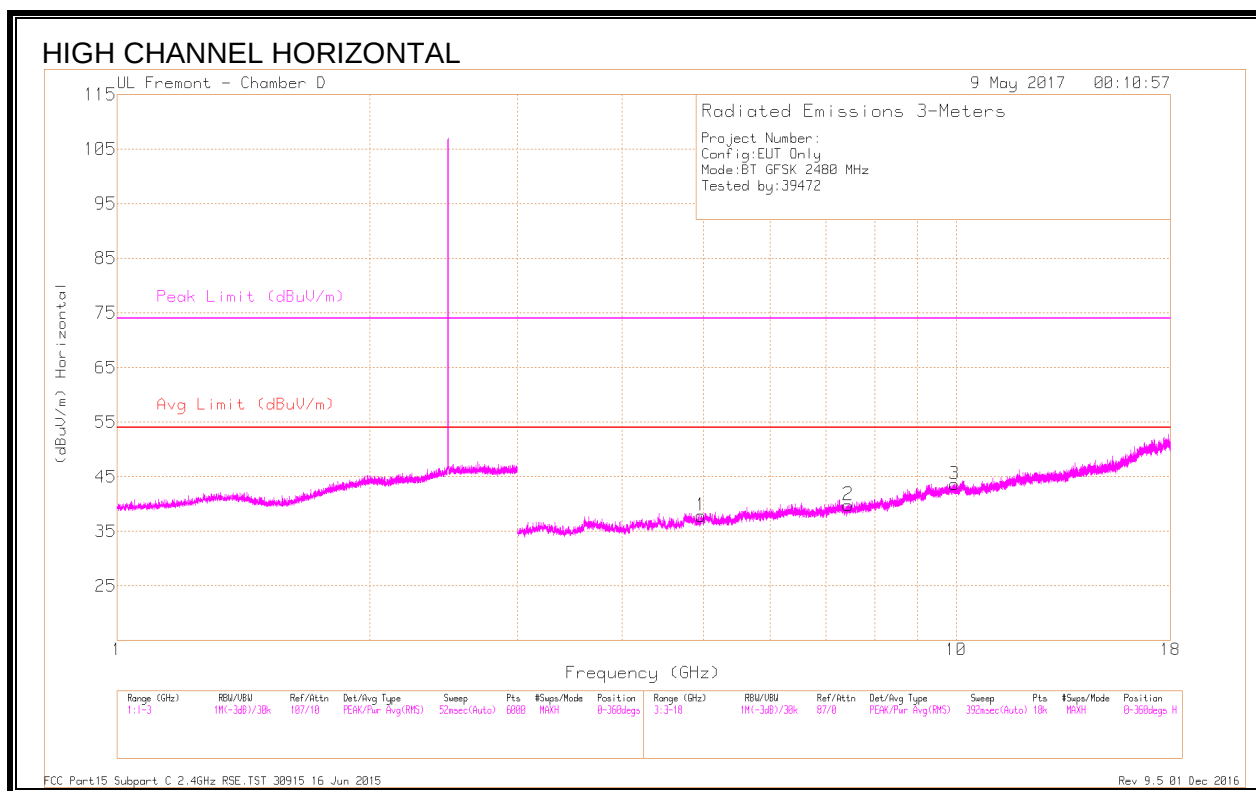
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

FHSS_GFSK_RSE_2441_ePA_UAT_INDEX 0.DAT 30915 16 Jun 2015

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Marker	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cb l/Filtr/P ad (dB)	Correct ed Reading (dBuV/ m)	Avg Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.962	37.06	PKFH	34.2	-27.4	43.86	-	-	74	-30.14	356	187	H
	* 4.958	24.85	VA1T	34.2	-27.5	31.55	54	-22.45	-	-	356	187	H
2	* 7.441	34.4	PKFH	35.6	-24.5	45.5	-	-	74	-28.5	357	334	H
	* 7.438	22.72	VA1T	35.6	-24.5	33.82	54	-20.18	-	-	357	334	H
3	9.918	33.52	PKFH	37.1	-20.7	49.92	-	-	-	-	12	102	H
4	* 4.962	37.89	PKFH	34.2	-27.4	44.69	-	-	74	-29.31	357	252	V
	* 4.96	24.84	VA1T	34.2	-27.5	31.54	54	-22.46	-	-	357	252	V
5	* 7.442	34.48	PKFH	35.6	-24.5	45.58	-	-	74	-28.42	181	361	V
	* 7.438	22.69	VA1T	35.6	-24.5	33.79	54	-20.21	-	-	181	361	V
6	* 10.825	32.77	PKFH	37.3	-20.8	49.27	-	-	74	-24.73	182	275	V
	* 10.824	20.99	VA1T	37.3	-20.8	37.49	54	-16.51	-	-	182	275	V

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

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

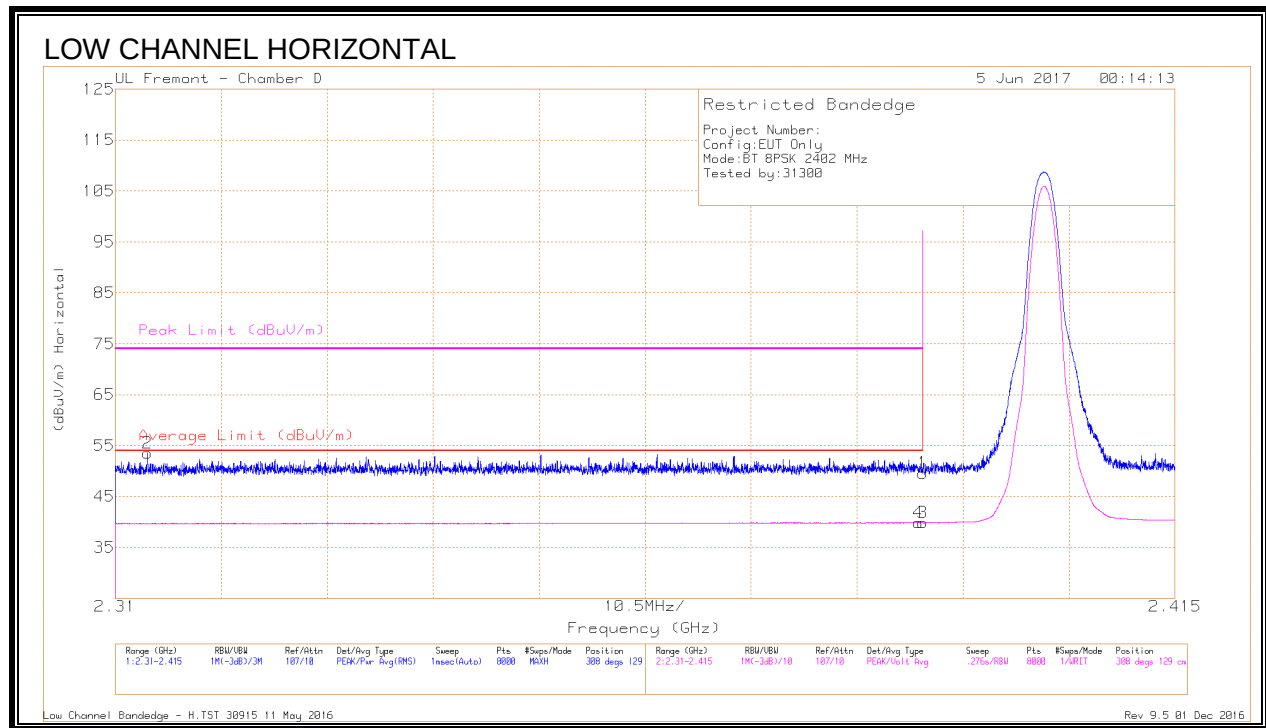
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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Rev 9.5 01 Dec 2016

9.3. UAT1, Pmax ENHANCED DATA RATE 8PSK MODULATION

9.3.1. RESTRICTED BANDEDGE (LOW CHANNEL)

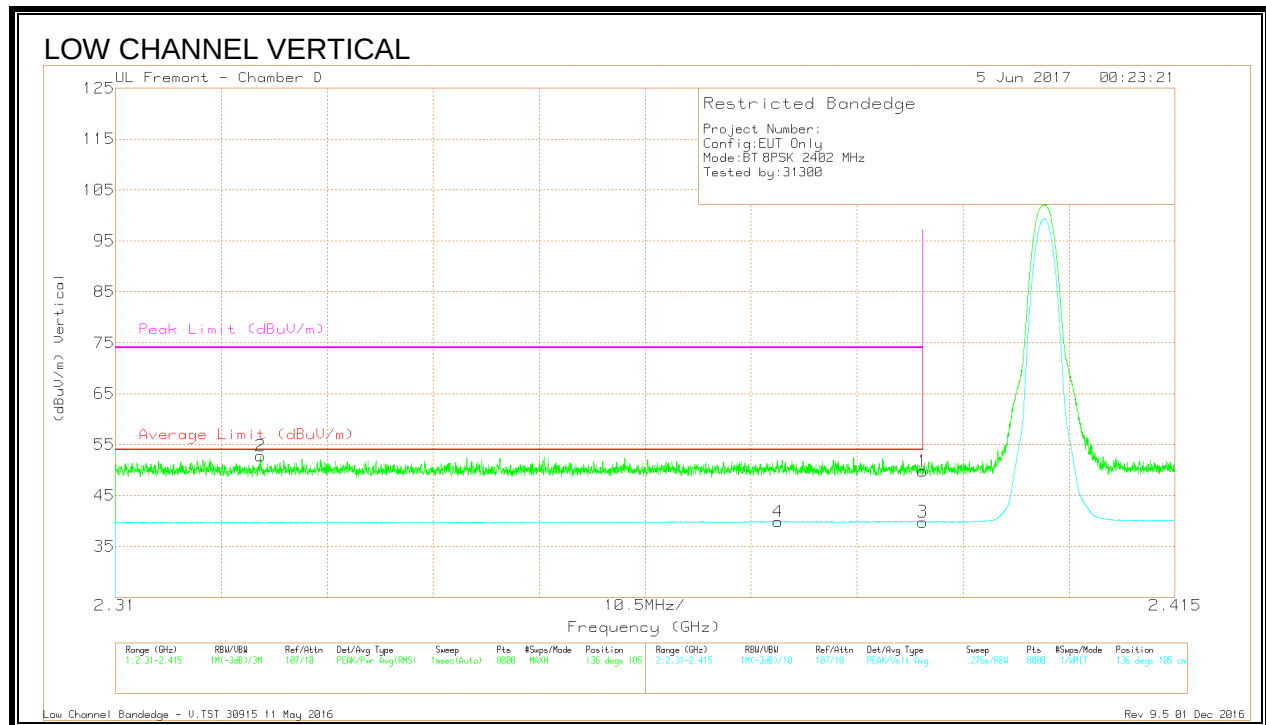


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.21	Pk	32.1	-20.7	49.61	-	-	74	-24.39	308	129	H
2	* 2.313	42.28	Pk	32.1	-20.9	53.48	-	-	74	-20.52	308	129	H
3	* 2.39	28.44	VA1T	32.1	-20.7	39.84	54	-14.16	-	-	308	129	H
4	* 2.39	28.58	VA1T	32.1	-20.8	39.88	54	-14.12	-	-	308	129	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



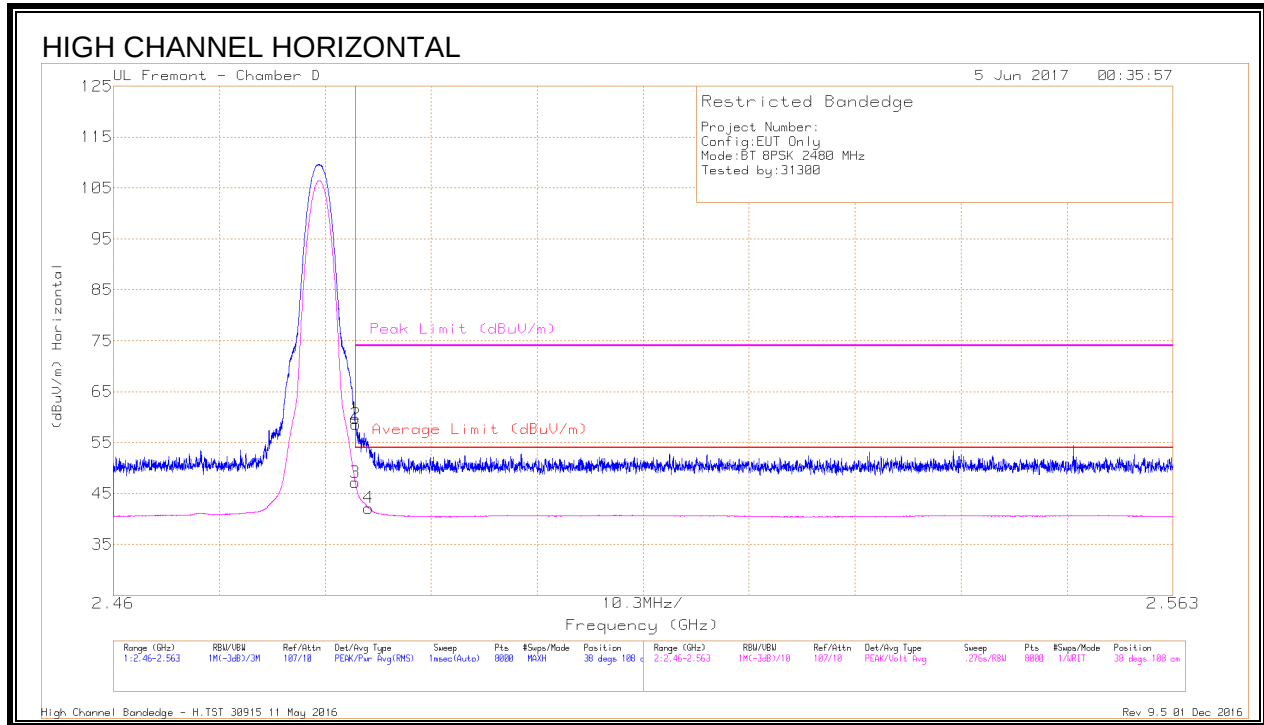
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.42	Pk	32.1	-20.7	49.82	-	-	74	-24.18	136	105	V
2	* 2.324	41.54	Pk	32.1	-20.9	52.74	-	-	74	-21.26	136	105	V
3	* 2.39	28.4	VA1T	32.1	-20.7	39.8	54	-14.2	-	-	136	105	V
4	* 2.376	28.59	VA1T	32.1	-20.8	39.89	54	-14.11	-	-	136	105	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

9.3.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)

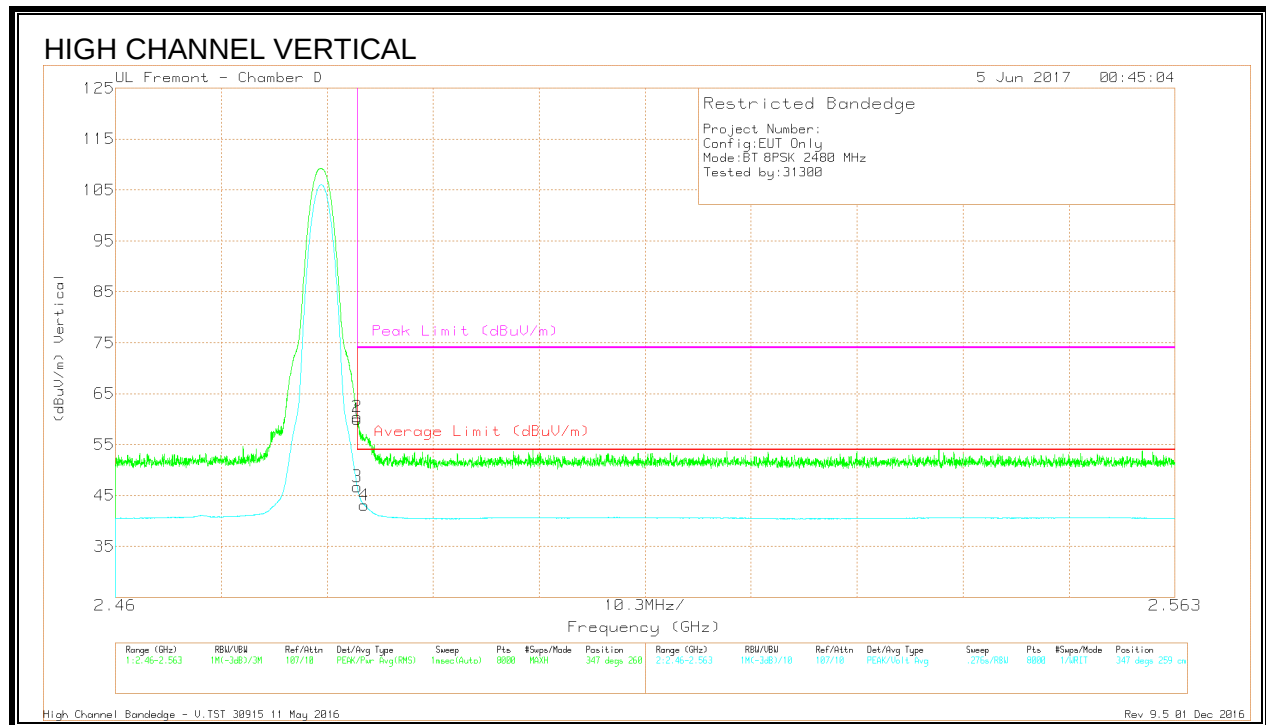


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48	Pk	32.5	-20.8	59.7	-	-	74	-14.3	38	108	H
2	* 2.484	46.88	Pk	32.5	-20.8	58.58	-	-	74	-15.42	38	108	H
3	* 2.484	35.52	VA1T	32.5	-20.8	47.22	54	-6.78	-	-	38	108	H
4	* 2.485	30.46	VA1T	32.5	-20.8	42.16	54	-11.84	-	-	38	108	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



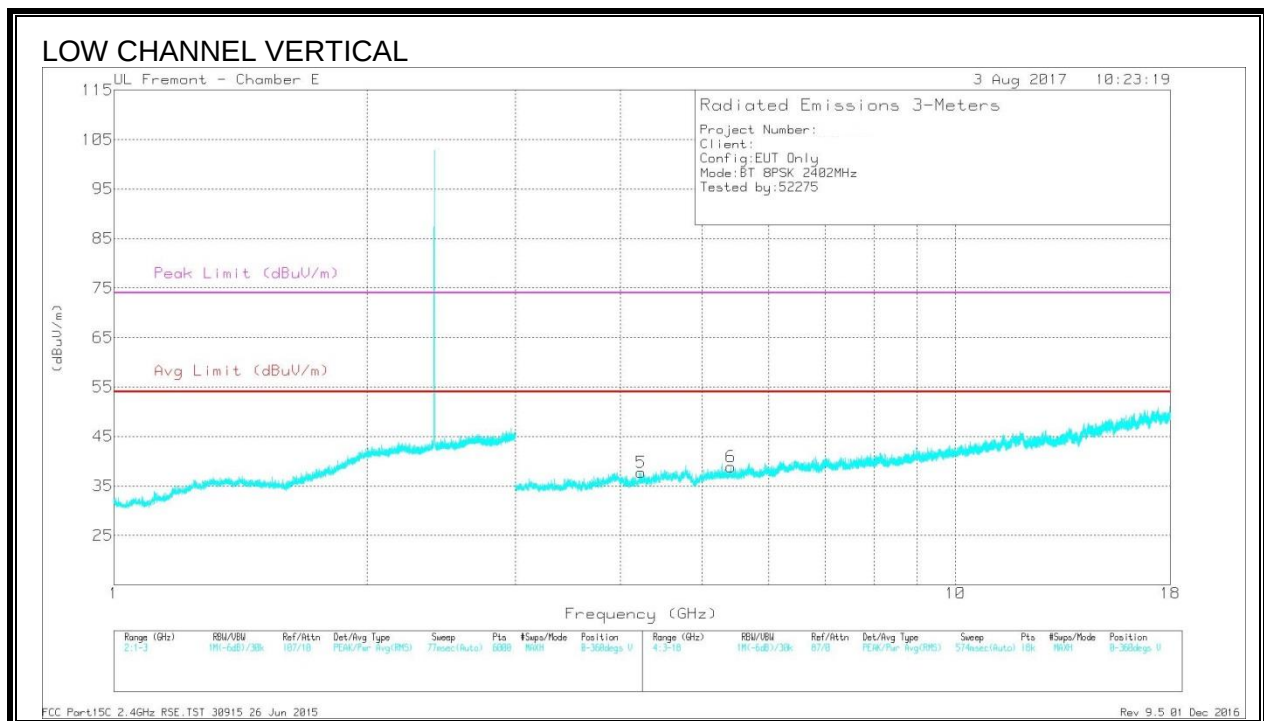
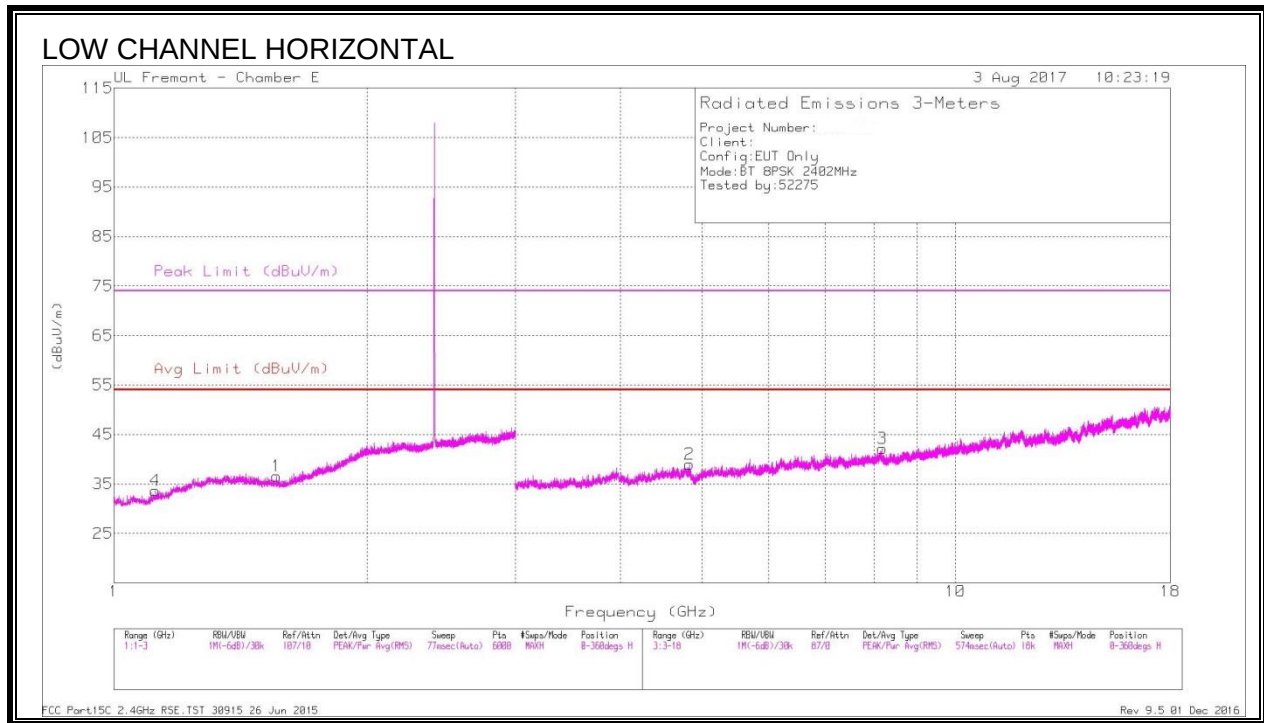
Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T120 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarit y
1	* 2.484	48.27	Pk	32.5	-20.8	59.97	-	-	74	-14.03	347	260	V
2	* 2.484	48.77	Pk	32.5	-20.8	60.47	-	-	74	-13.53	347	260	V
3	* 2.484	35.05	VA1T	32.5	-20.8	46.75	54	-7.25	-	-	347	259	V
4	* 2.484	31.41	VA1T	32.5	-20.8	43.11	54	-10.89	-	-	347	259	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

9.3.3. HARMONICS AND SPURIOUS EMISSIONS



Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/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
* 1.562	33.12	PKFH	27.3	-20.7	39.72	-	-	74	-34.28	113	193	H
* 1.558	22.14	VA1T	27.3	-20.7	28.74	54	-25.26	-	-	113	193	H
* 1.12	35.14	PKFH	26.7	-22.7	39.14	-	-	74	-34.86	88	196	H
* 1.12	22.37	VA1T	26.7	-22.7	26.37	54	-27.63	-	-	88	196	H
* 4.831	38.86	PKFH	34.4	-29.2	44.06	-	-	74	-29.94	116	347	H
* 4.831	26.86	VA1T	34.4	-29.2	32.06	54	-21.94	-	-	116	347	H
* 8.189	35.02	PKFH	36.5	-25.2	46.32	-	-	74	-27.68	221	150	H
* 8.189	23.29	VA1T	36.5	-25.2	34.59	54	-19.41	-	-	221	150	H
* 4.234	38.02	PKFH	33.8	-29.1	42.72	-	-	74	-31.28	0	380	V
* 4.233	25.69	VA1T	33.8	-29.2	30.29	54	-23.71	-	-	0	380	V
* 5.41	37.4	PKFH	35	-28.4	44	-	-	74	-30	180	355	V
* 5.41	25.48	VA1T	35	-28.4	32.08	54	-21.92	-	-	180	355	V

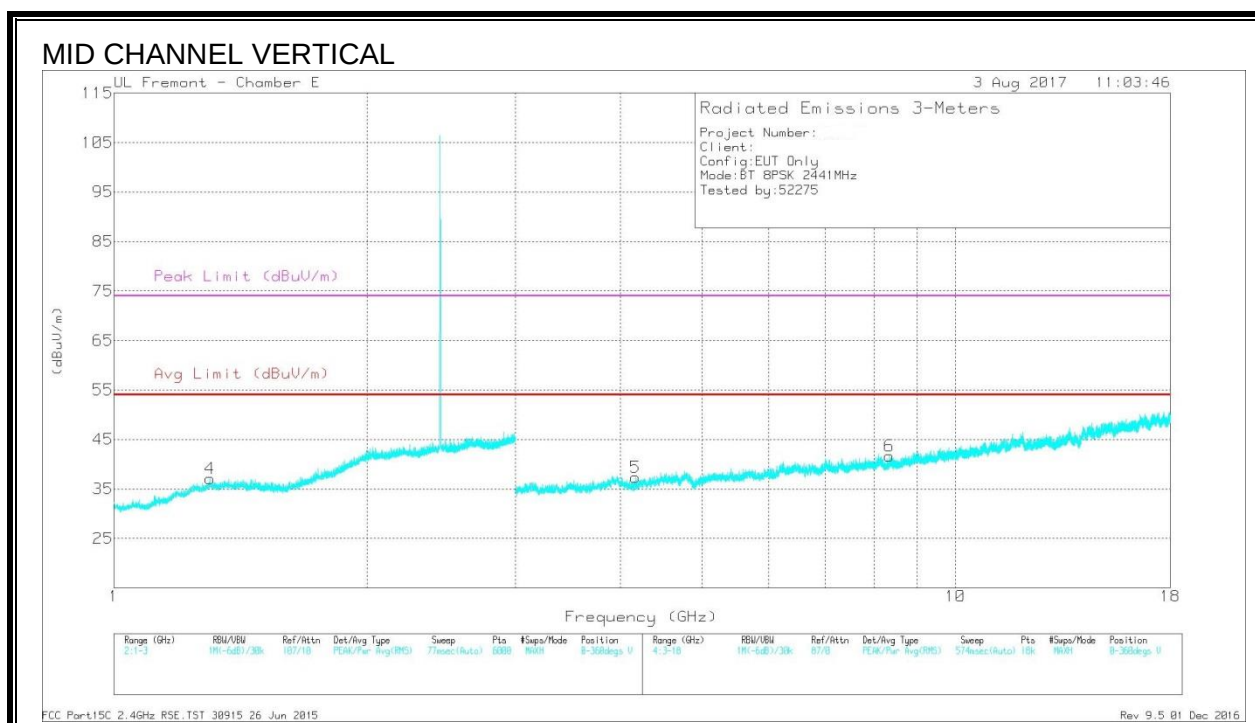
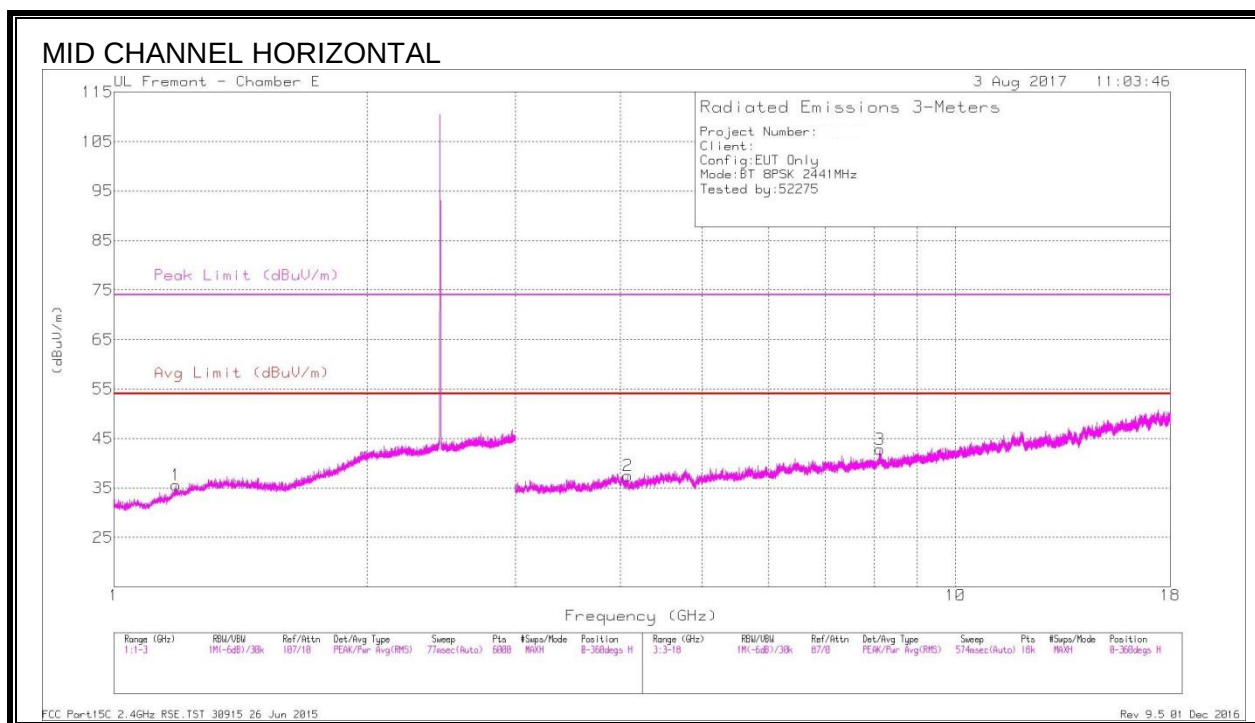
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/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
* 1.187	33.93	PKFH	27.8	-22.3	39.43	-	-	74	-34.57	251	337	H
* 1.184	22.55	VA1T	27.7	-22.3	27.95	54	-26.05	-	-	251	337	H
* 1.3	33.67	PKFH	28.9	-21.6	40.97	-	-	74	-33.03	176	180	V
* 1.3	22.54	VA1T	28.9	-21.6	29.84	54	-24.16	-	-	176	180	V
* 4.079	38.06	PKFH	33.6	-30.2	41.46	-	-	74	-32.54	175	222	H
* 4.082	26.84	VA1T	33.6	-30.2	30.24	54	-23.76	-	-	175	222	H
* 8.138	34.8	PKFH	36.5	-24.7	46.6	-	-	74	-27.4	299	308	H
* 8.138	23.14	VA1T	36.5	-24.7	34.94	54	-19.06	-	-	299	308	H
* 4.163	38.68	PKFH	33.6	-30.5	41.78	-	-	74	-32.22	234	278	V
* 4.163	26.93	VA1T	33.6	-30.5	30.03	54	-23.97	-	-	234	278	V
* 8.342	35.76	PKFH	36.5	-26.1	46.16	-	-	74	-27.84	281	305	V
* 8.341	23.88	VA1T	36.5	-26.1	34.28	54	-19.72	-	-	281	305	V

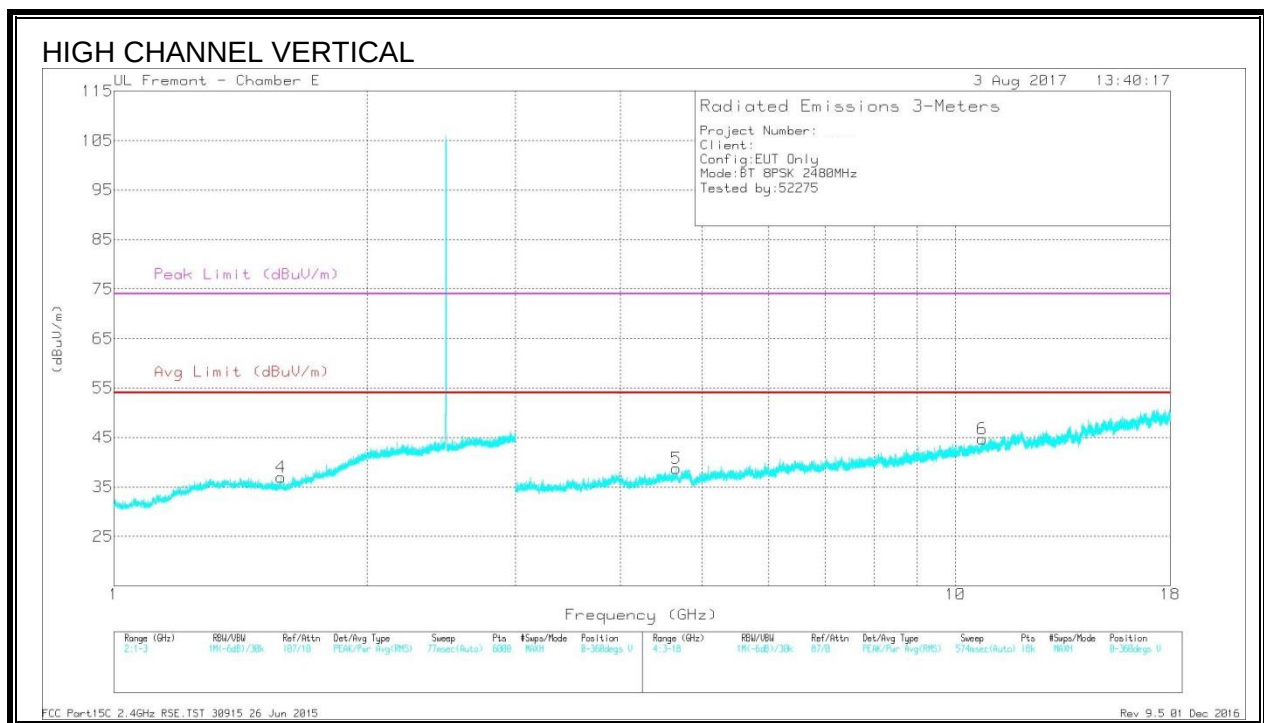
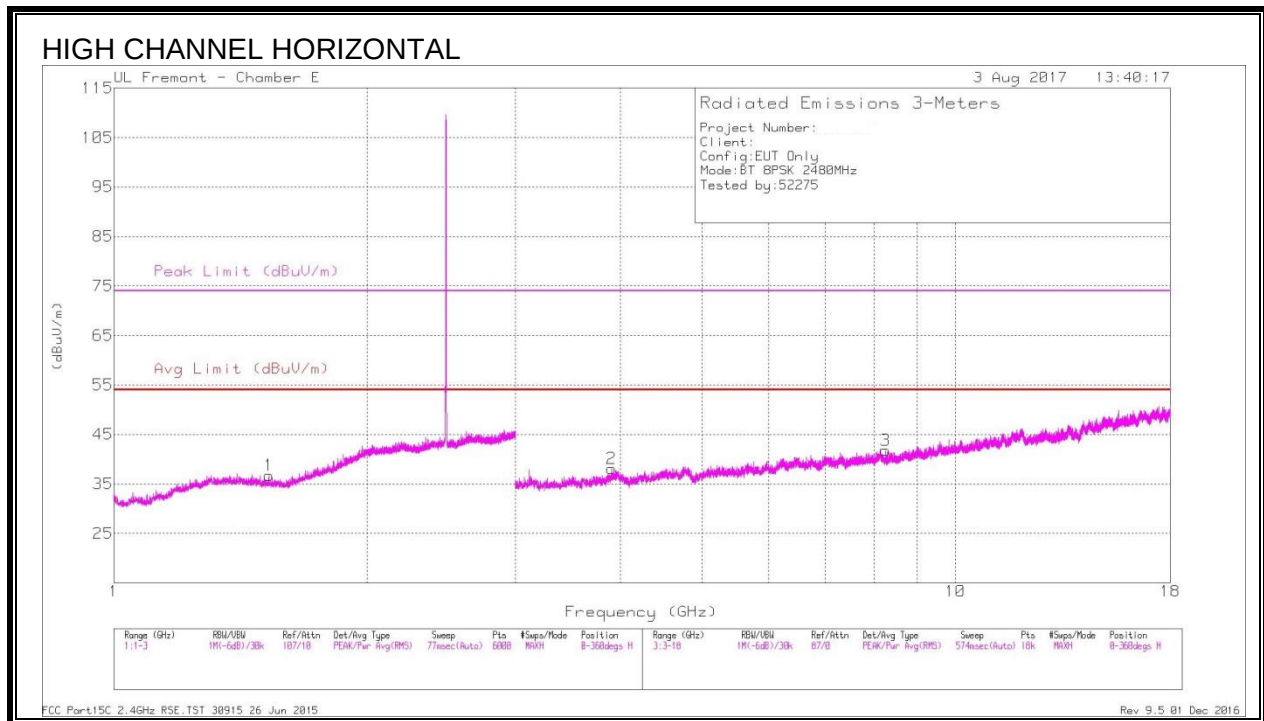
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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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Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/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
* 1.529	34.07	PKFH	27.5	-20.7	40.87	-	-	74	-33.13	174	130	H
* 1.529	22.17	VA1T	27.5	-20.7	28.97	54	-25.03	-	-	174	130	H
* 1.581	34.21	PKFH	27.2	-20.7	40.71	-	-	74	-33.29	177	255	V
* 1.58	22.21	VA1T	27.3	-20.7	28.81	54	-25.19	-	-	177	255	V
* 3.903	38.65	PKFH	33.7	-29.2	43.15	-	-	74	-30.85	267	260	H
* 3.906	26.79	VA1T	33.7	-29.2	31.29	54	-22.71	-	-	267	260	H
* 8.261	35.94	PKFH	36.5	-26.5	45.94	-	-	74	-28.06	324	249	H
* 8.263	23.93	VA1T	36.5	-26.5	33.93	54	-20.07	-	-	324	249	H
* 4.659	39.16	PKFH	34.4	-30.2	43.36	-	-	74	-30.64	267	390	V
* 4.657	27.48	VA1T	34.4	-30.2	31.68	54	-22.32	-	-	267	390	V
* 10.77	34.47	PKFH	38.1	-23.4	49.17	-	-	74	-24.83	236	237	V
* 10.769	22.46	VA1T	38.1	-23.4	37.16	54	-16.84	-	-	236	237	V

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

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

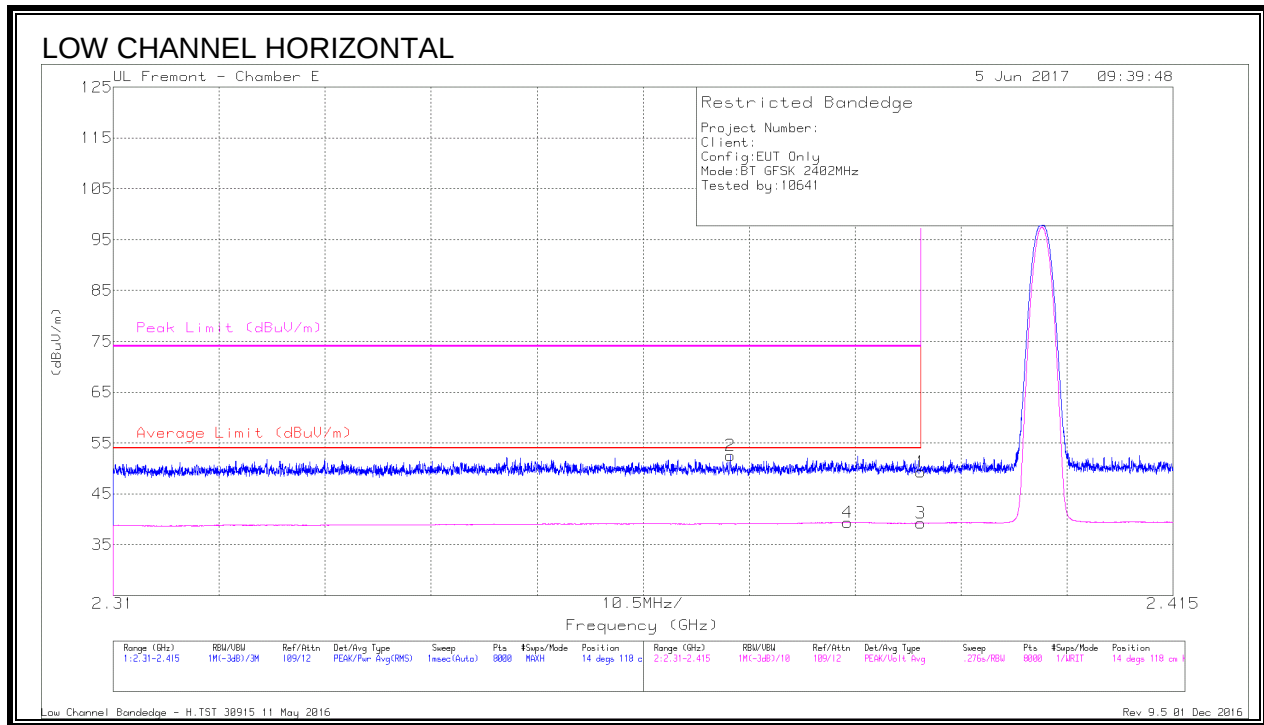
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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9.4. UAT1, P1ow BASIC DATA RATE GFSK MODULATION

9.4.1. RESTRICTED BANDEGE (LOW CHANNEL)

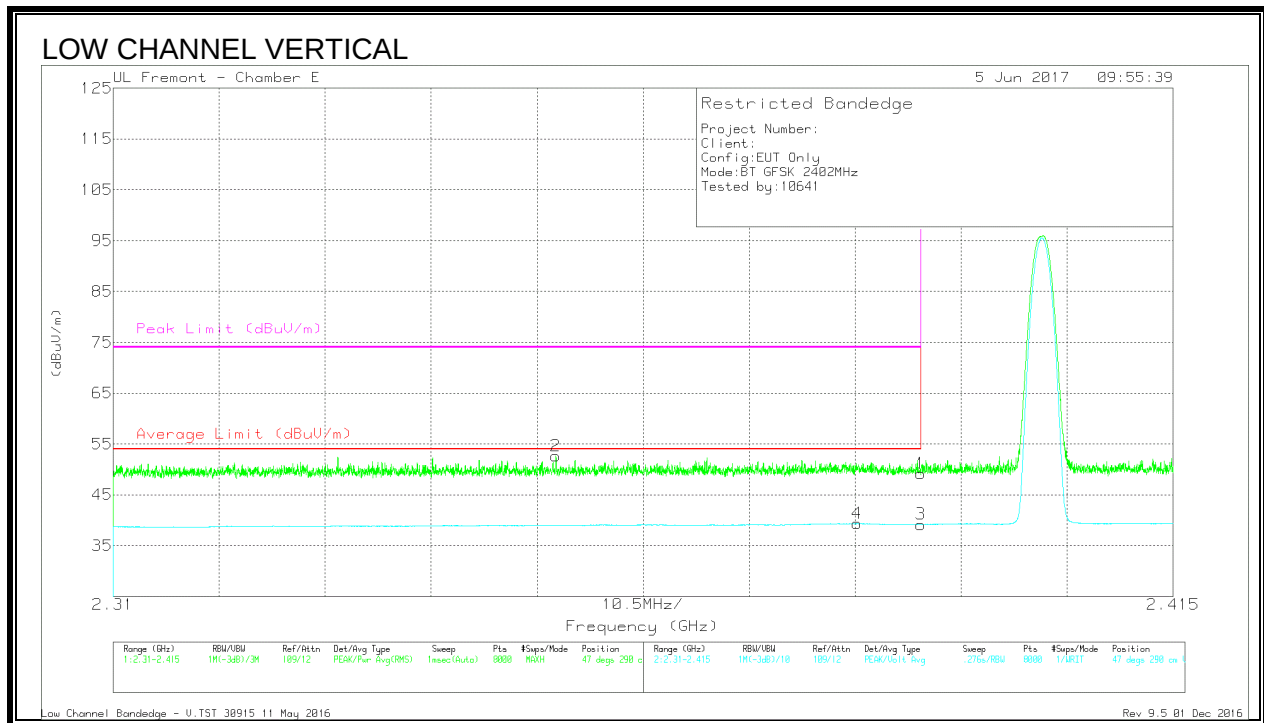


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.371	40.08	Pk	32.2	-19.8	52.48	-	-	74	-21.52	14	118	H
4	* 2.383	26.71	VA1T	32.2	-19.5	39.41	54	-14.59	-	-	14	118	H
1	* 2.39	36.75	Pk	32.2	-19.7	49.25	-	-	74	-24.75	14	118	H
3	* 2.39	26.71	VA1T	32.2	-19.7	39.21	54	-14.79	-	-	14	118	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



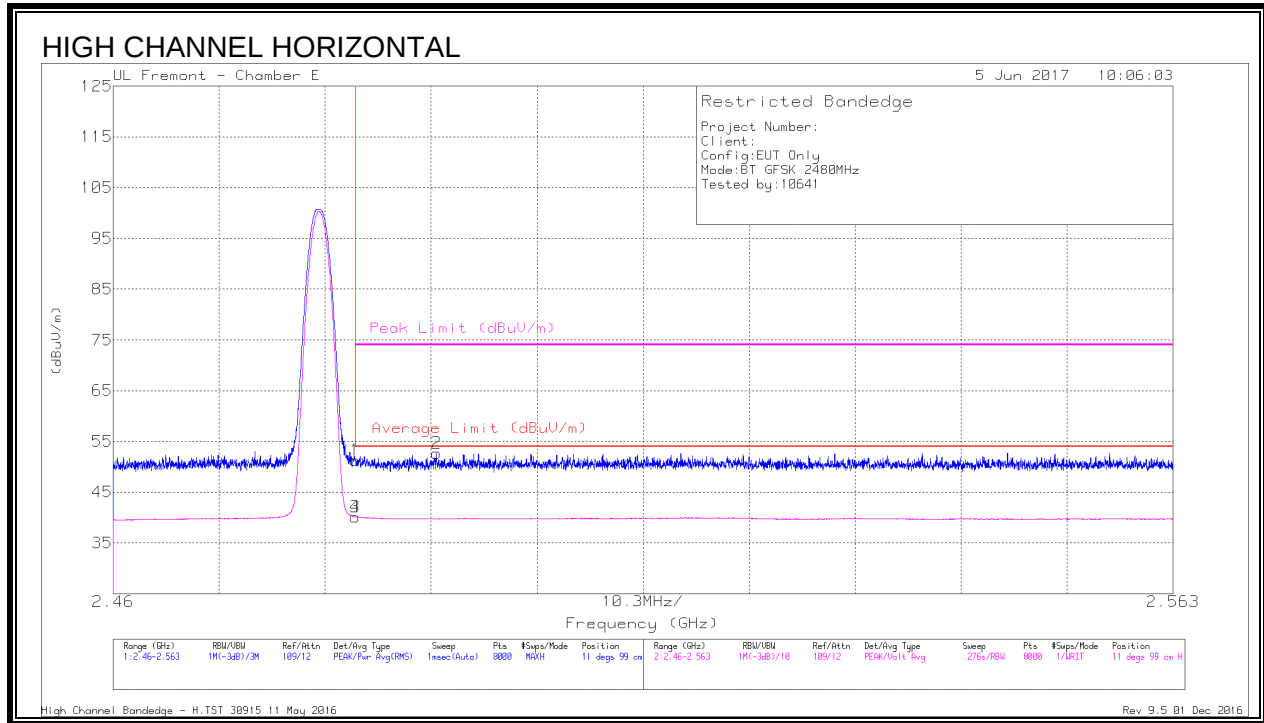
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	36.68	Pk	32.2	-19.7	49.18	-	-	74	-24.82	47	290	V
2	* 2.354	40.13	Pk	32.2	-19.7	52.63	-	-	74	-21.37	47	290	V
3	* 2.39	26.68	VA1T	32.2	-19.7	39.18	54	-14.82	-	-	47	290	V
4	* 2.384	26.65	VA1T	32.2	-19.5	39.35	54	-14.65	-	-	47	290	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

9.4.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)

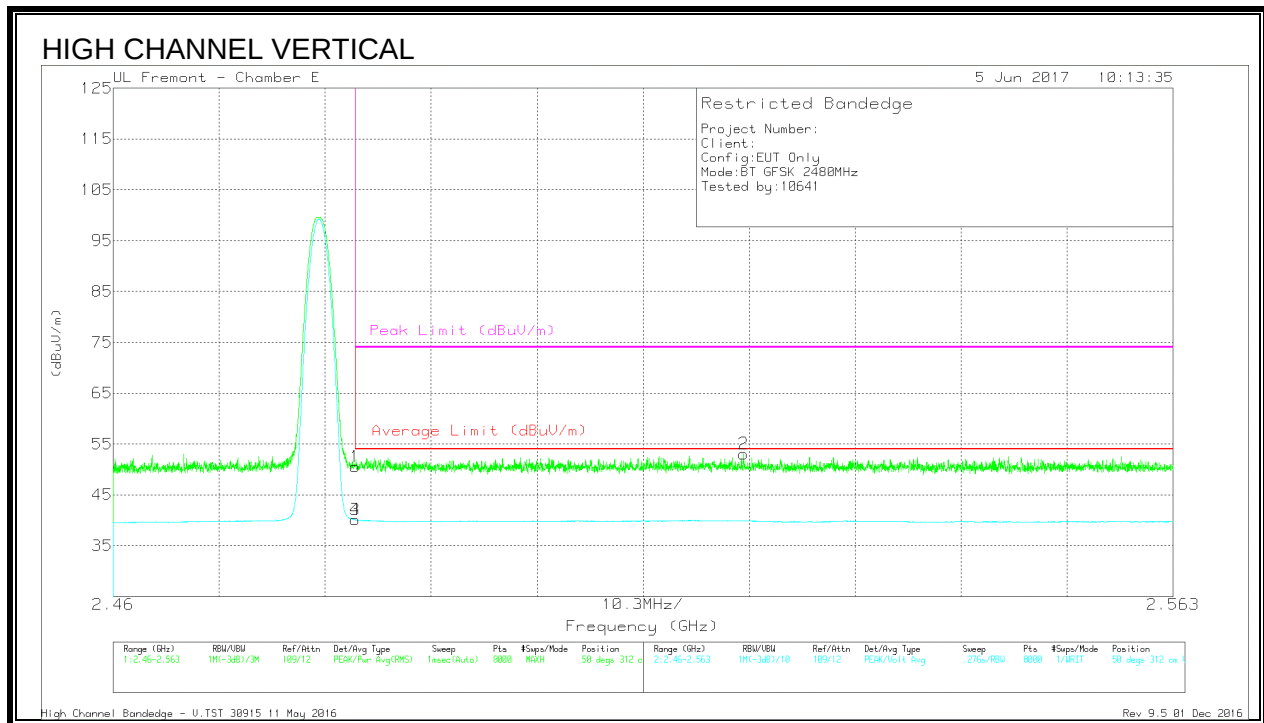


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.23	Pk	32.7	-19.7	51.23	-	-	74	-22.77	11	99	H
2	* 2.491	39.91	Pk	32.7	-19.9	52.71	-	-	74	-21.29	11	99	H
3	* 2.484	27.14	VA1T	32.7	-19.7	40.14	54	-13.86	-	-	11	99	H
4	* 2.484	27.16	VA1T	32.7	-19.7	40.16	54	-13.84	-	-	11	99	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



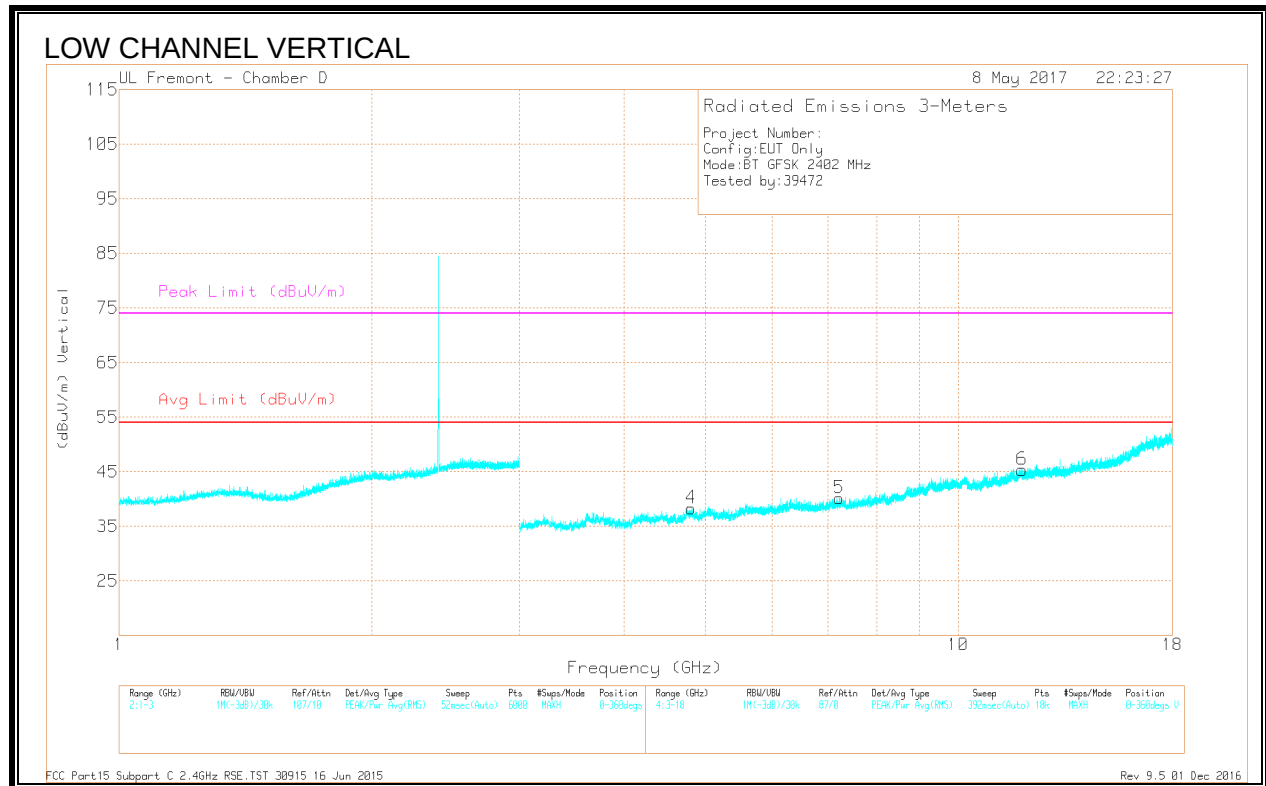
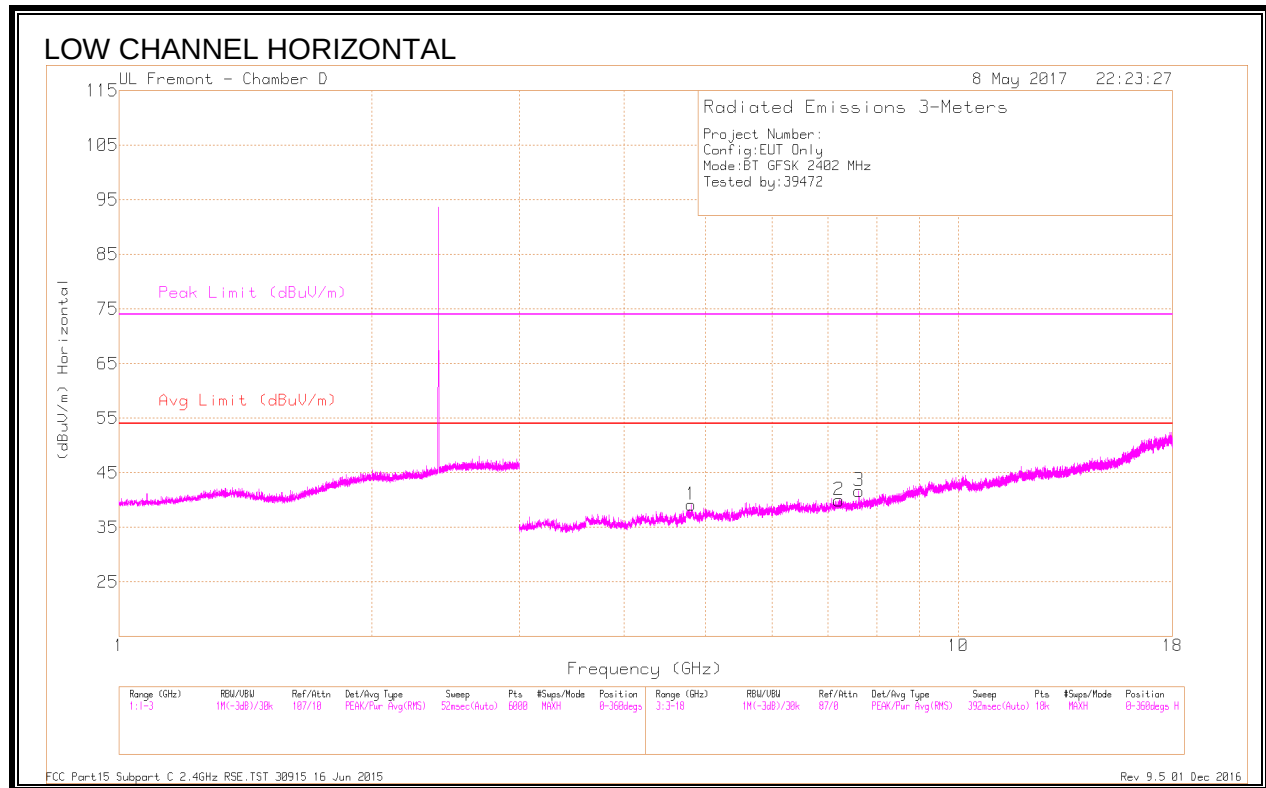
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	37.57	Pk	32.7	-19.7	50.57	-	-	74	-23.43	50	312	V
3	* 2.484	27.07	VA1T	32.7	-19.7	40.07	54	-13.93	-	-	50	312	V
4	* 2.484	27.07	VA1T	32.7	-19.7	40.07	54	-13.93	-	-	50	312	V
2	2.521	40.18	Pk	32.7	-19.8	53.08	-	-	74	-20.92	50	312	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

9.4.3. HARMONICS AND SPURIOUS EMISSIONS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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	* 4.806	36.08	PKFH	34.1	-26.8	43.38	-	-	74	-30.62	81	375	H
	* 4.804	24.89	VA1T	34.1	-26.8	32.19	54	-21.81	-	-	81	375	H
2	7.205	34.96	PKFH	35.8	-25	45.76	-	-	-	-	34	399	H
3	* 7.617	34.83	PKFH	35.7	-24.7	45.83	-	-	74	-28.17	185	173	H
	* 7.615	23.13	VA1T	35.7	-24.7	34.13	54	-19.87	-	-	185	173	H
4	* 4.805	36.55	PKFH	34.1	-26.8	43.85	-	-	74	-30.15	75	227	V
	* 4.804	24.86	VA1T	34.1	-26.8	32.16	54	-21.84	-	-	75	227	V
5	7.206	35.47	PKFH	35.8	-25	46.27	-	-	-	-	5	313	V
6	* 12.01	33.56	PKFH	38.9	-21.4	51.06	-	-	74	-22.94	289	250	V
	* 12.011	21.65	VA1T	38.9	-21.4	39.15	54	-14.85	-	-	289	250	V

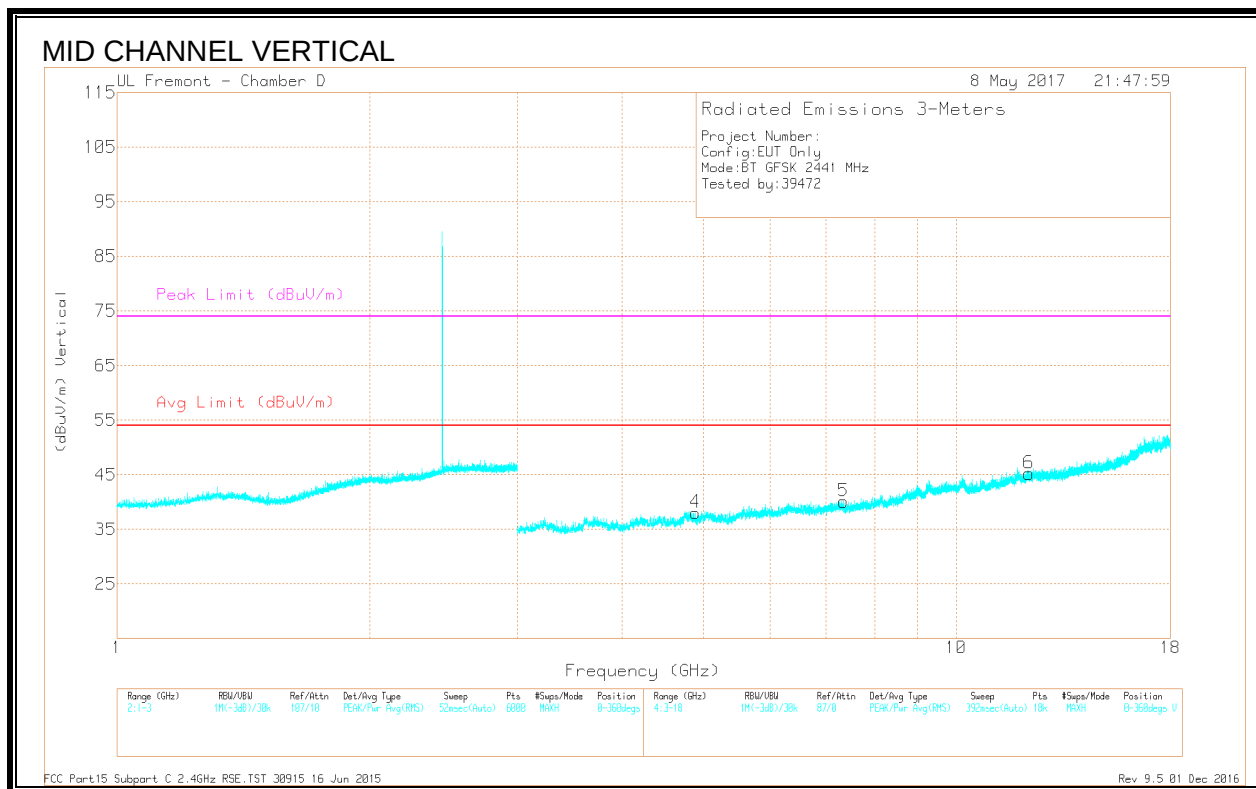
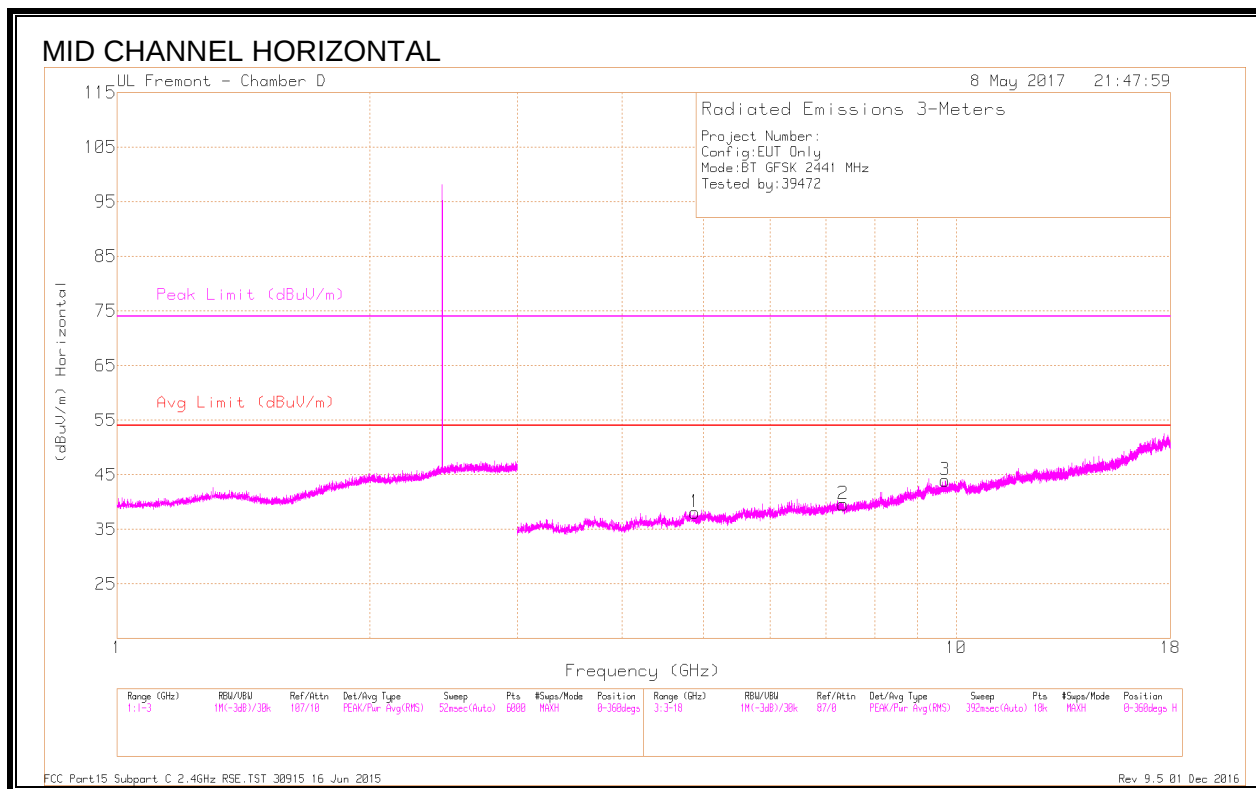
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 T862 (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	* 4.883	37.29	PKFH	34.1	-28.1	43.29	-	-	74	-30.71	233	222	H
	* 4.882	25.05	VA1T	34.1	-28	31.15	54	-22.85	-	-	233	222	H
2	* 7.322	35.3	PKFH	35.7	-25.2	45.8	-	-	74	-28.2	150	182	H
	* 7.322	23.49	VA1T	35.7	-25.2	33.99	54	-20.01	-	-	150	182	H
3	9.764	34.97	PKFH	37.1	-21.8	50.27	-	-	-	-	207	257	H
4	* 4.884	36.43	PKFH	34.1	-28.1	42.43	-	-	74	-31.57	229	116	V
	* 4.882	25.03	VA1T	34.1	-28	31.13	54	-22.87	-	-	229	116	V
5	* 7.321	35.62	PKFH	35.7	-25.3	46.02	-	-	74	-27.98	274	189	V
	* 7.325	23.49	VA1T	35.7	-25.1	34.09	54	-19.91	-	-	274	189	V
6	* 12.204	33.13	PKFH	39	-21	51.13	-	-	74	-22.87	151	307	V
	* 12.205	21.54	VA1T	39	-21	39.54	54	-14.46	-	-	151	307	V

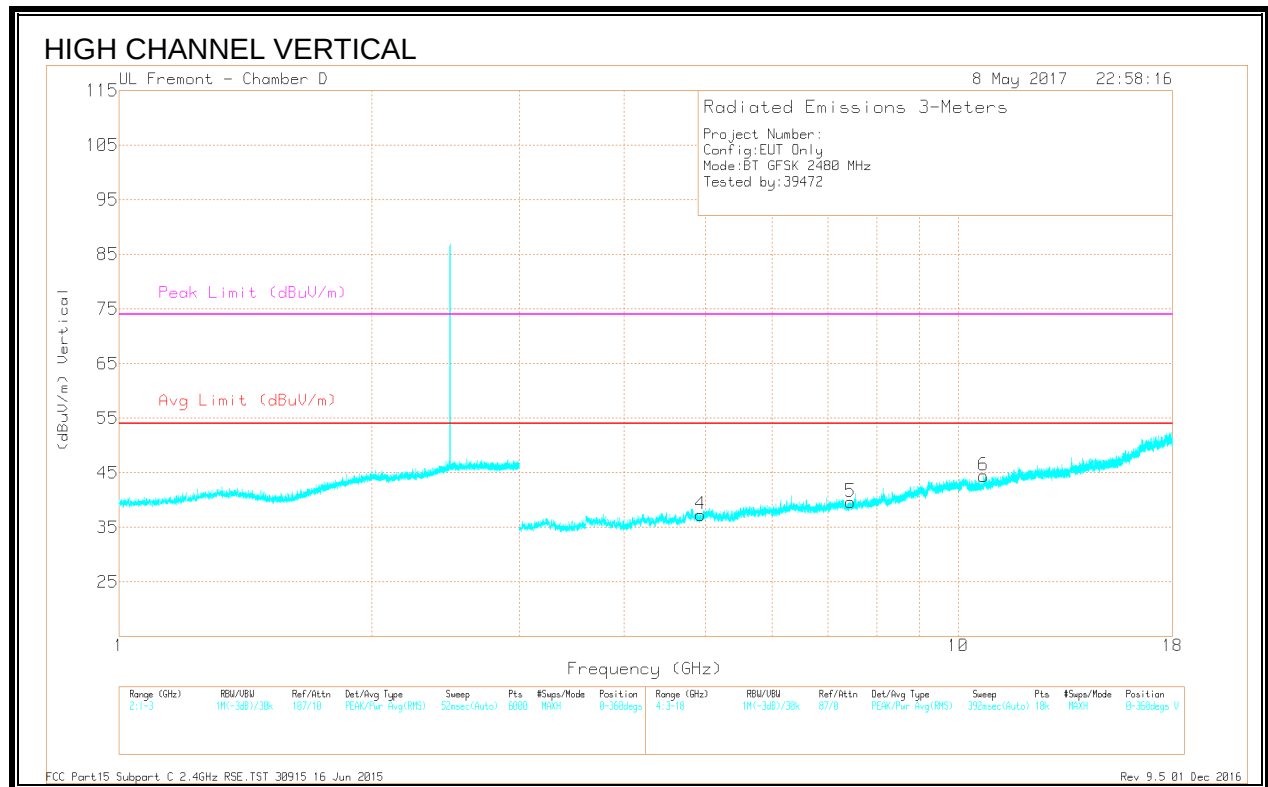
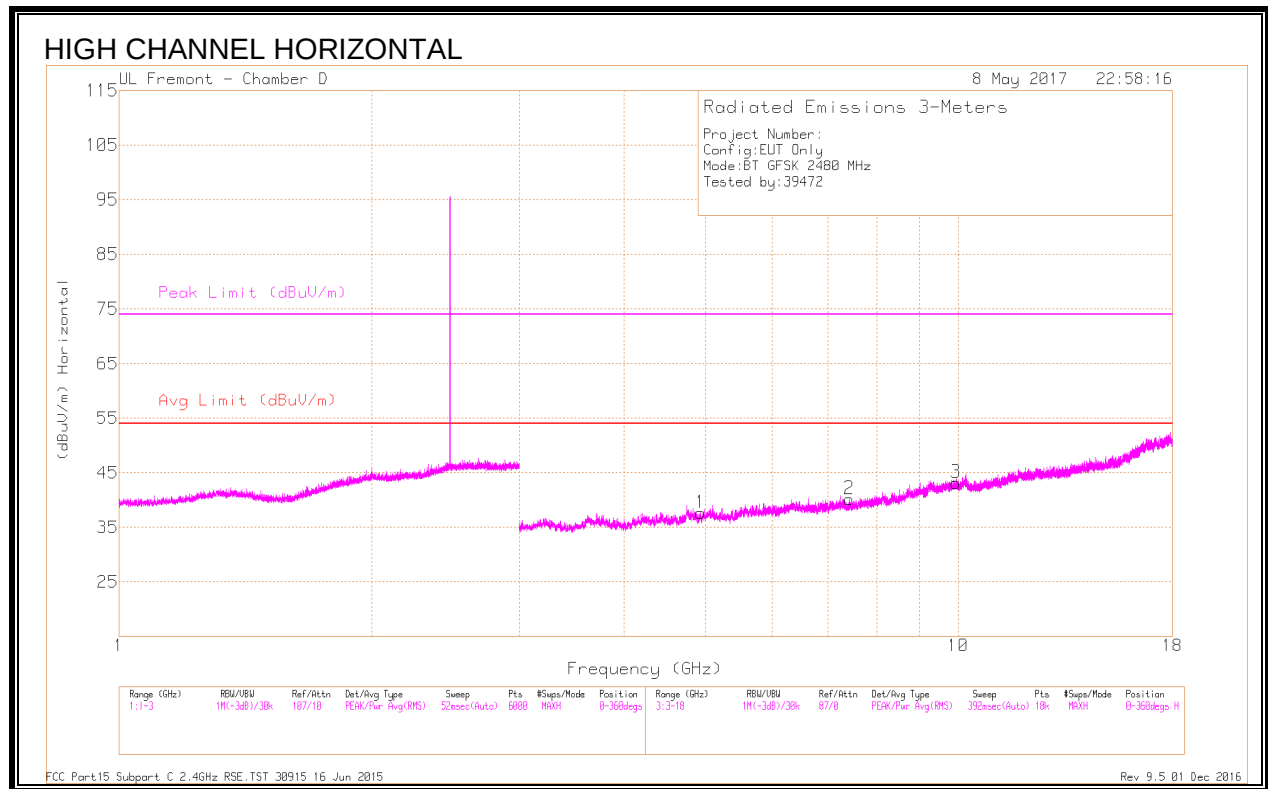
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 T862 (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	* 4.958	36.48	PKFH	34.2	-27.5	43.18	-	-	74	-30.82	47	190	H
	* 4.958	24.79	VA1T	34.2	-27.5	31.49	54	-22.51	-	-	47	190	H
3	9.92	33.55	PKFH	37.1	-20.7	49.95	-	-	-	-	105	155	H
2	* 7.44	34.44	PKFH	35.6	-24.5	45.54	-	-	74	-28.46	23	116	H
	* 7.438	22.65	VA1T	35.6	-24.5	33.75	54	-20.25	-	-	23	116	H
4	* 4.958	37.47	PKFH	34.2	-27.5	44.17	-	-	74	-29.83	85	336	V
	* 4.958	24.82	VA1T	34.2	-27.5	31.52	54	-22.48	-	-	85	336	V
5	* 7.442	34.5	PKFH	35.6	-24.5	45.6	-	-	74	-28.4	360	275	V
	* 7.438	22.71	VA1T	35.6	-24.5	33.81	54	-20.19	-	-	360	275	V
6	* 10.725	33.26	PKFH	37.2	-20.6	49.86	-	-	74	-24.14	219	241	V
	* 10.727	21.1	VA1T	37.2	-20.5	37.8	54	-16.2	-	-	219	241	V

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

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

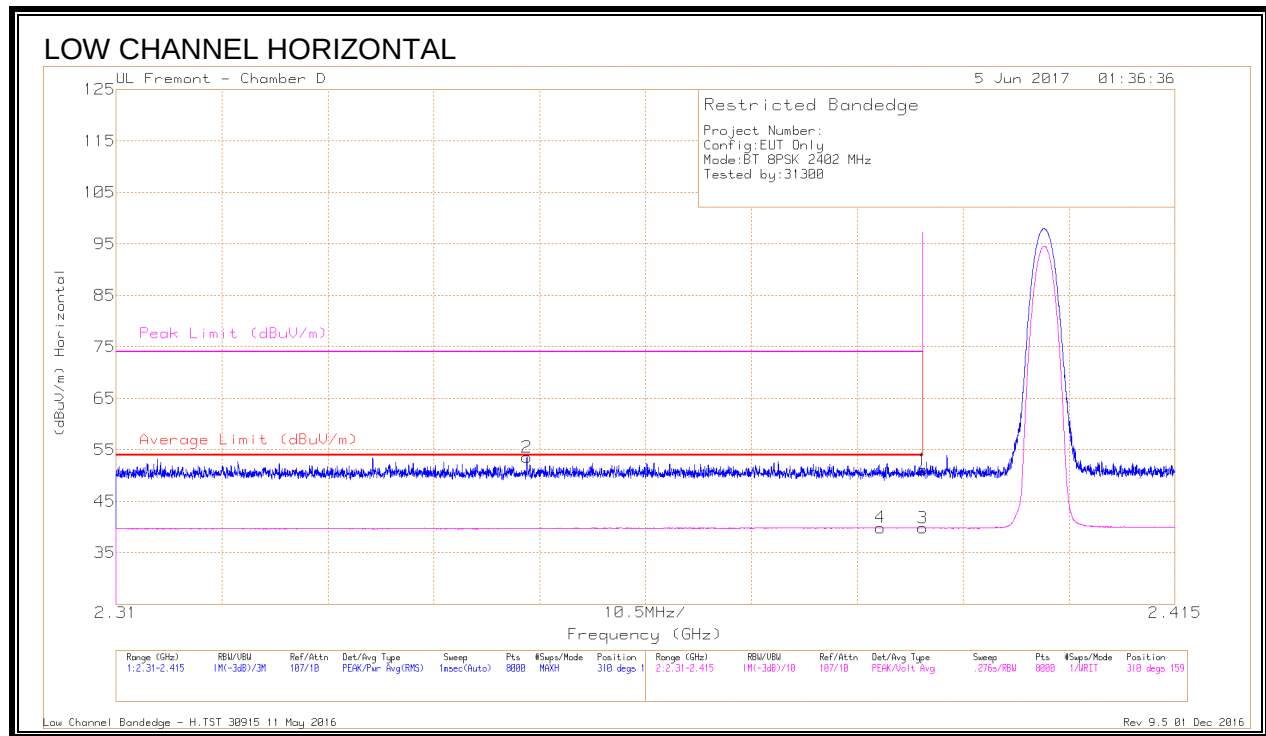
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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9.5. UAT1, Plow ENHANCED DATA RATE 8PSK MODULATION

9.5.1. RESTRICTED BANDEDGE (LOW CHANNEL)

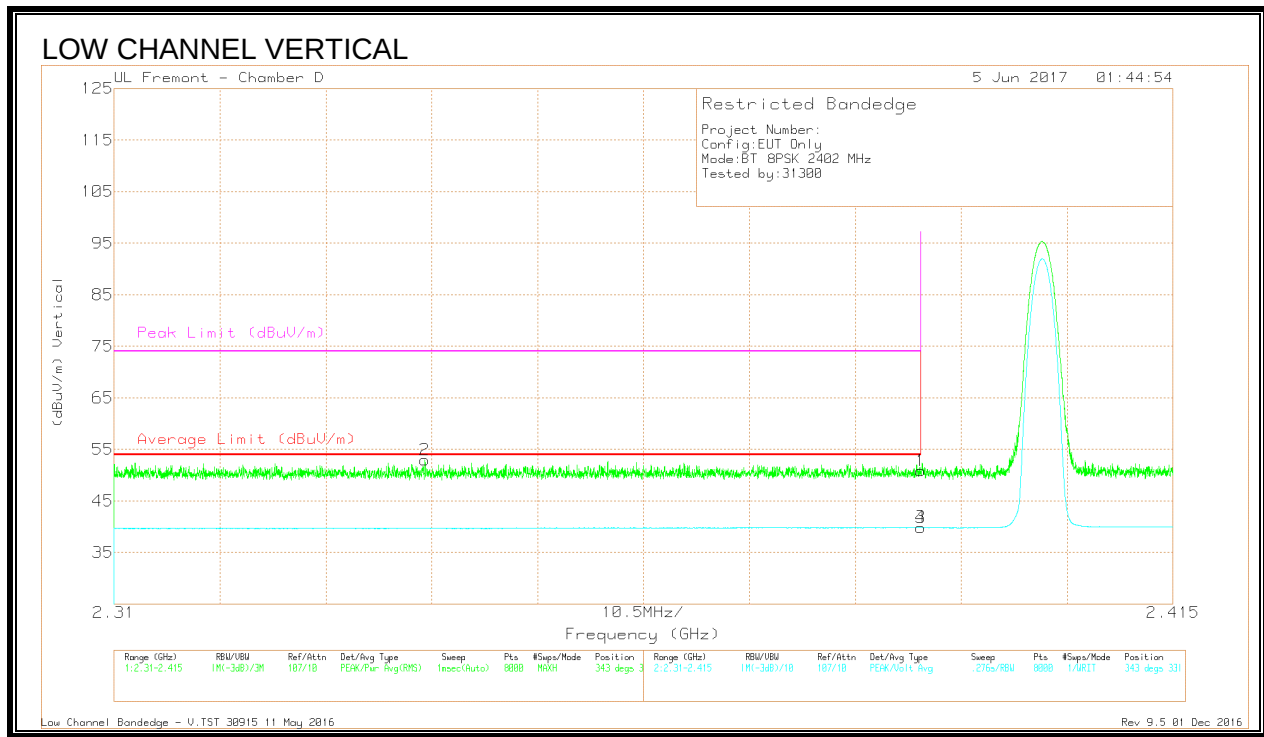


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Reading (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.351	42.27	Pk	32.1	-20.8	53.57	-	-	74	-20.43	310	159	H
4	* 2.386	28.59	VA1T	32.1	-20.8	39.89	54	-14.11	-	-	310	159	H
1	* 2.39	39.74	Pk	32.1	-20.7	51.14	-	-	74	-22.86	310	159	H
3	* 2.39	28.39	VA1T	32.1	-20.7	39.79	54	-14.21	-	-	310	159	H

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

Pk - Peak detector

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



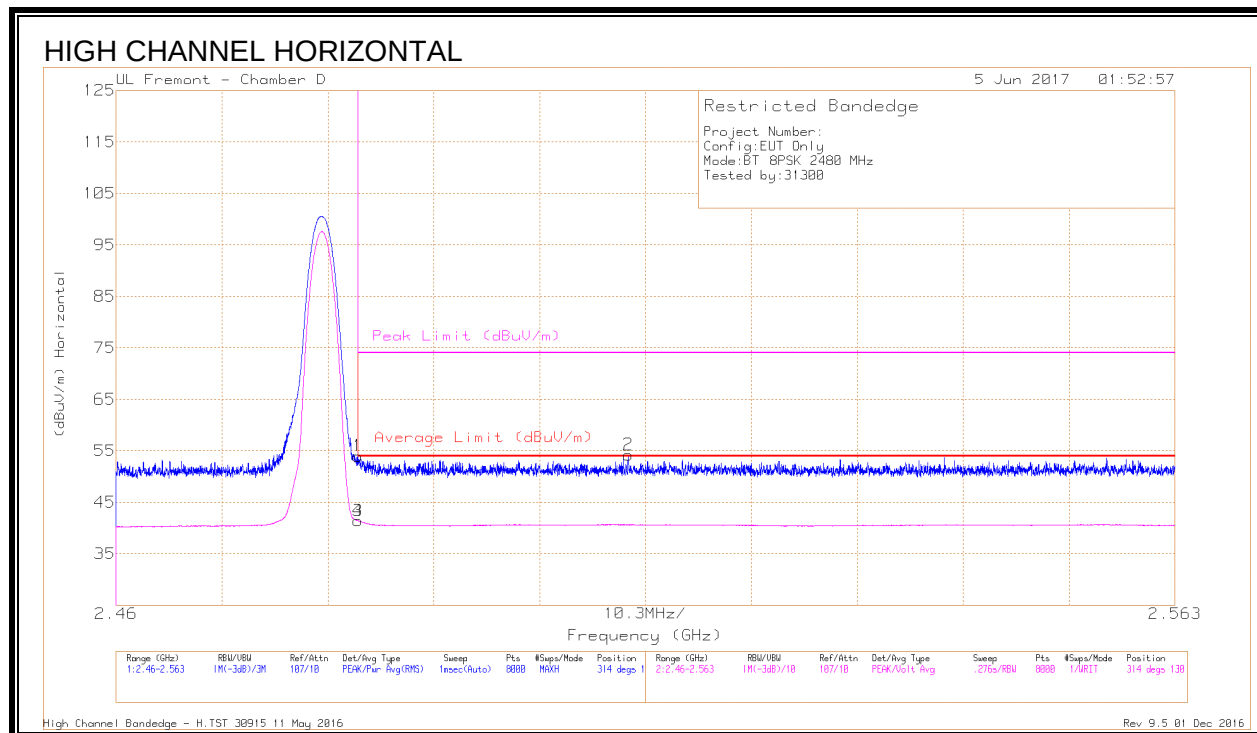
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.341	41.74	Pk	32.1	-20.9	52.94	-	-	74	-21.06	343	331	V
1	* 2.39	39.44	Pk	32.1	-20.7	50.84	-	-	74	-23.16	343	331	V
3	* 2.39	28.47	VA1T	32.1	-20.7	39.87	54	-14.13	-	-	343	331	V
4	* 2.39	28.47	VA1T	32.1	-20.7	39.87	54	-14.13	-	-	343	331	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

9.5.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)

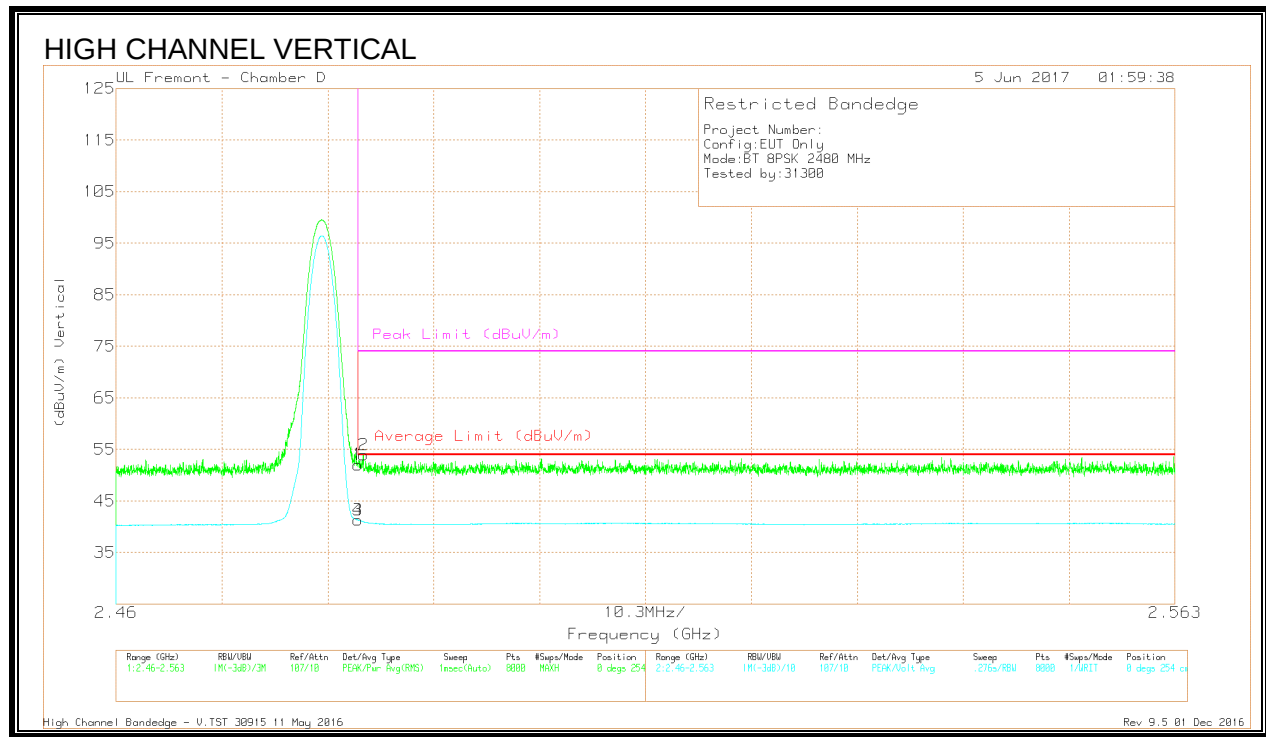


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.3	Pk	32.5	-20.8	54	-	-	74	-20	314	130	H
3	* 2.484	29.7	VA1T	32.5	-20.8	41.4	54	-12.6	-	-	314	130	H
4	* 2.484	29.7	VA1T	32.5	-20.8	41.4	54	-12.6	-	-	314	130	H
2	2.51	42.23	Pk	32.6	-20.6	54.23	-	-	74	-19.77	314	130	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



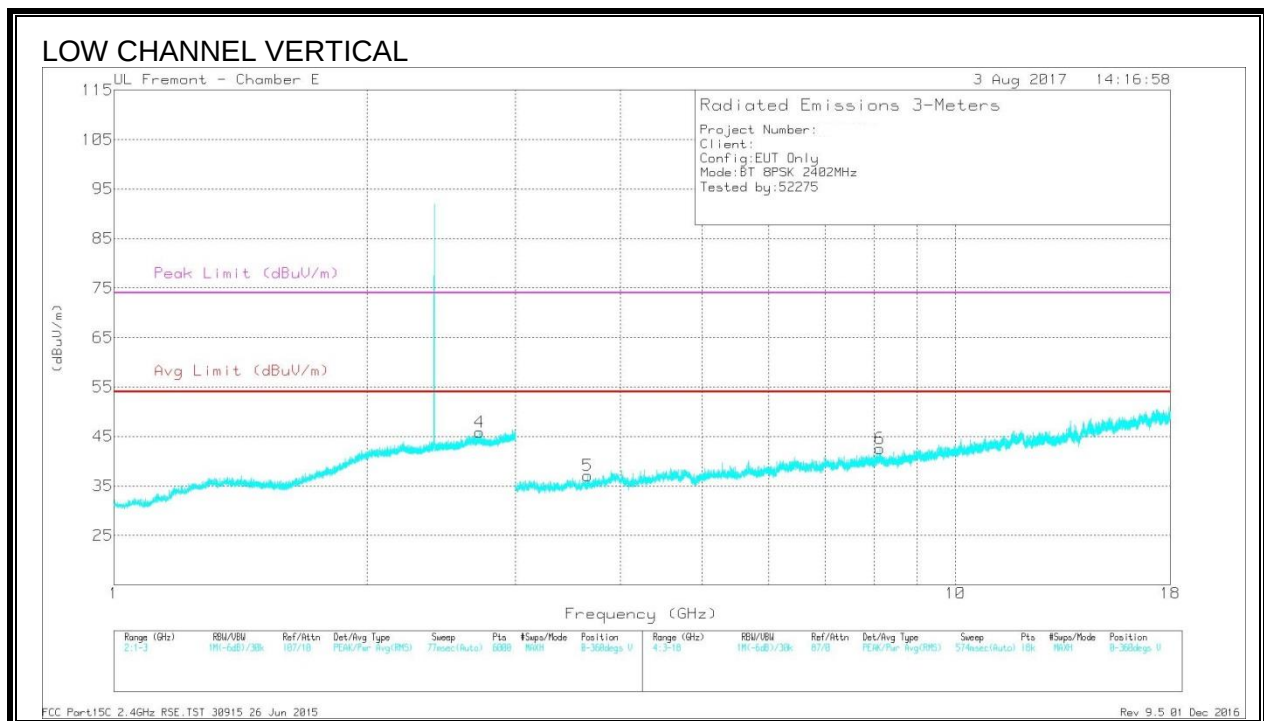
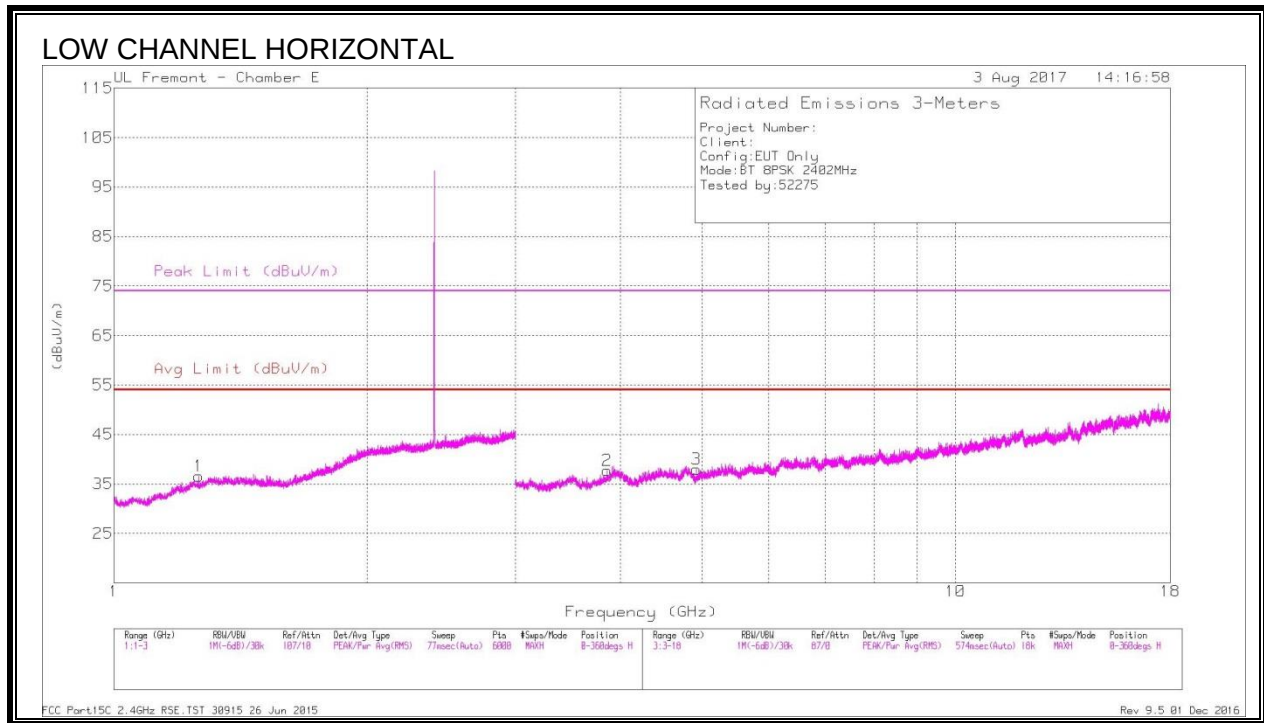
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.32	Pk	32.5	-20.8	52.02	-	-	74	-21.98	0	254	V
2	* 2.484	42.21	Pk	32.5	-20.8	53.91	-	-	74	-20.09	0	254	V
3	* 2.484	29.61	VA1T	32.5	-20.8	41.31	54	-12.69	-	-	0	254	V
4	* 2.484	29.61	VA1T	32.5	-20.8	41.31	54	-12.69	-	-	0	254	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

9.5.3. HARMONICS AND SPURIOUS EMISSIONS



Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/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
* 1.261	33.75	PKFH	28.5	-21.7	40.55	-	-	74	-33.45	65	179	H
* 1.259	22.13	VA1T	28.5	-21.7	28.93	54	-25.07	-	-	65	179	H
* 2.722	35.8	PKFH	32.5	-18.9	49.4	-	-	74	-24.6	225	280	V
* 2.72	23.86	VA1T	32.5	-18.9	37.46	54	-16.54	-	-	225	280	V
* 3.854	39.24	PKFH	33.7	-30.4	42.54	-	-	74	-31.46	310	129	H
* 3.856	27.81	VA1T	33.7	-30.4	31.11	54	-22.89	-	-	310	129	H
* 4.917	37.17	PKFH	34.5	-29.7	41.97	-	-	74	-32.03	79	208	H
* 4.92	25.35	VA1T	34.5	-29.8	30.05	54	-23.95	-	-	79	208	H
* 3.654	38.03	PKFH	33.4	-30.4	41.03	-	-	74	-32.97	161	335	V
* 3.655	26.82	VA1T	33.4	-30.4	29.82	54	-24.18	-	-	161	335	V
* 8.137	34.88	PKFH	36.5	-24.7	46.68	-	-	74	-27.32	259	122	V
* 8.139	23.28	VA1T	36.5	-24.7	35.08	54	-18.92	-	-	259	122	V

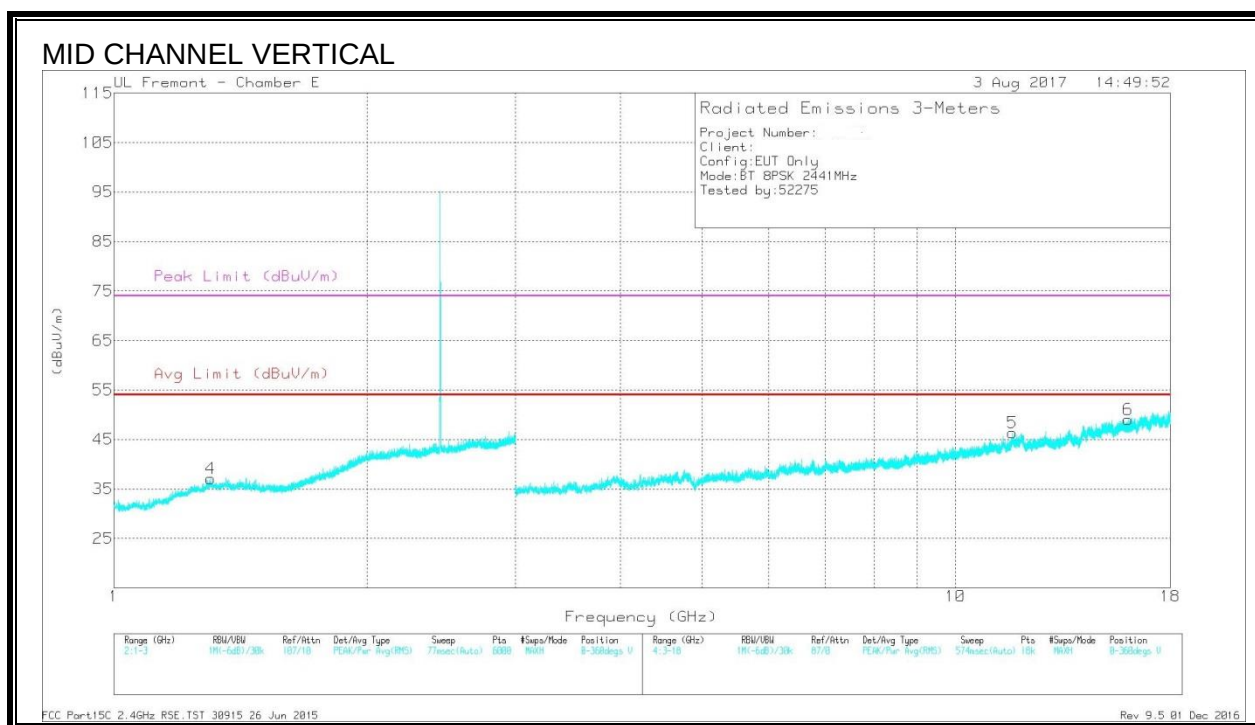
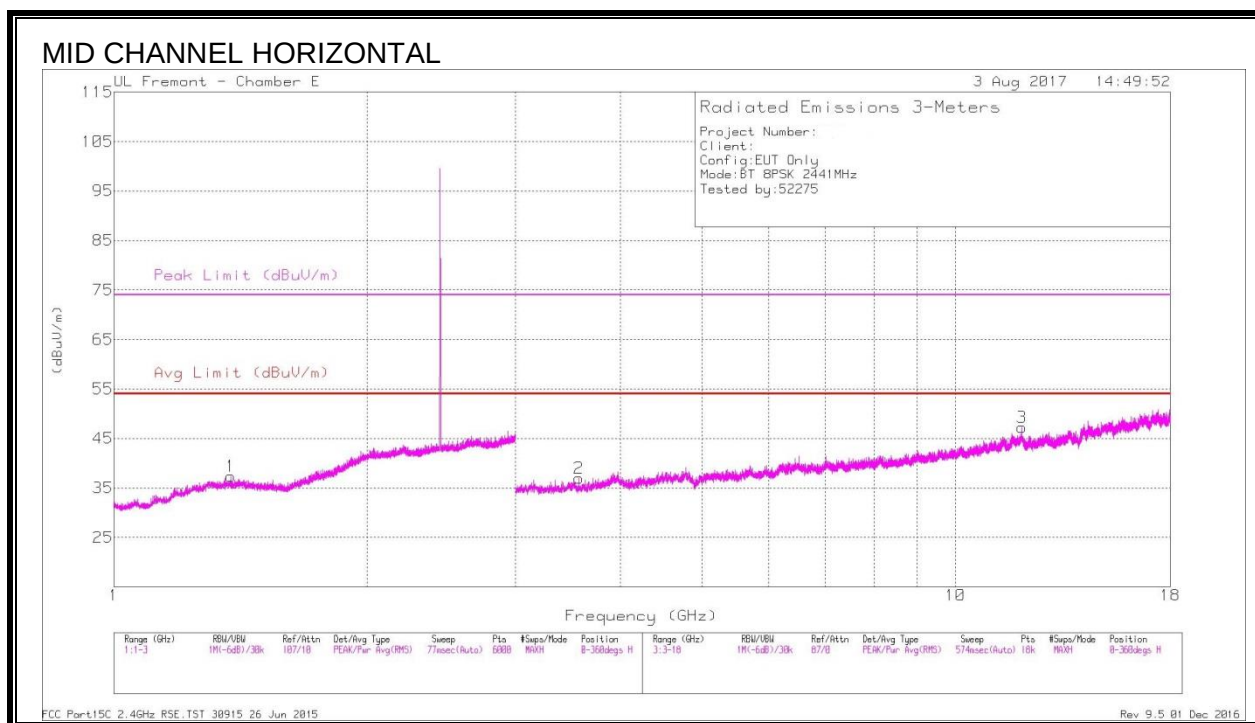
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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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Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/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
* 1.376	34.02	PKFH	28.8	-21.3	41.52	-	-	74	-32.48	4	281	H
* 1.374	22.22	VA1T	28.8	-21.4	29.62	54	-24.38	-	-	4	281	H
* 1.302	34.77	PKFH	28.9	-21.6	42.07	-	-	74	-31.93	310	339	V
* 1.303	22.53	VA1T	28.9	-21.6	29.83	54	-24.17	-	-	310	339	V
* 3.569	39.13	PKFH	33.3	-30.5	41.93	-	-	74	-32.07	75	159	H
* 3.568	26.71	VA1T	33.3	-30.6	29.41	54	-24.59	-	-	75	159	H
* 11.993	32.99	PKFH	39.8	-22.1	50.69	-	-	74	-23.31	6	343	H
* 11.992	21.76	VA1T	39.8	-22.1	39.46	54	-14.54	-	-	6	343	H
* 11.683	33.86	PKFH	39.1	-21.7	51.26	-	-	74	-22.74	250	364	V
* 11.683	21.8	VA1T	39.1	-21.7	39.2	54	-14.8	-	-	250	364	V
* 16.031	34.39	PKFH	41.7	-22.8	53.29	-	-	74	-20.71	276	210	V
* 16.028	21.98	VA1T	41.7	-22.7	40.98	54	-13.02	-	-	276	210	V

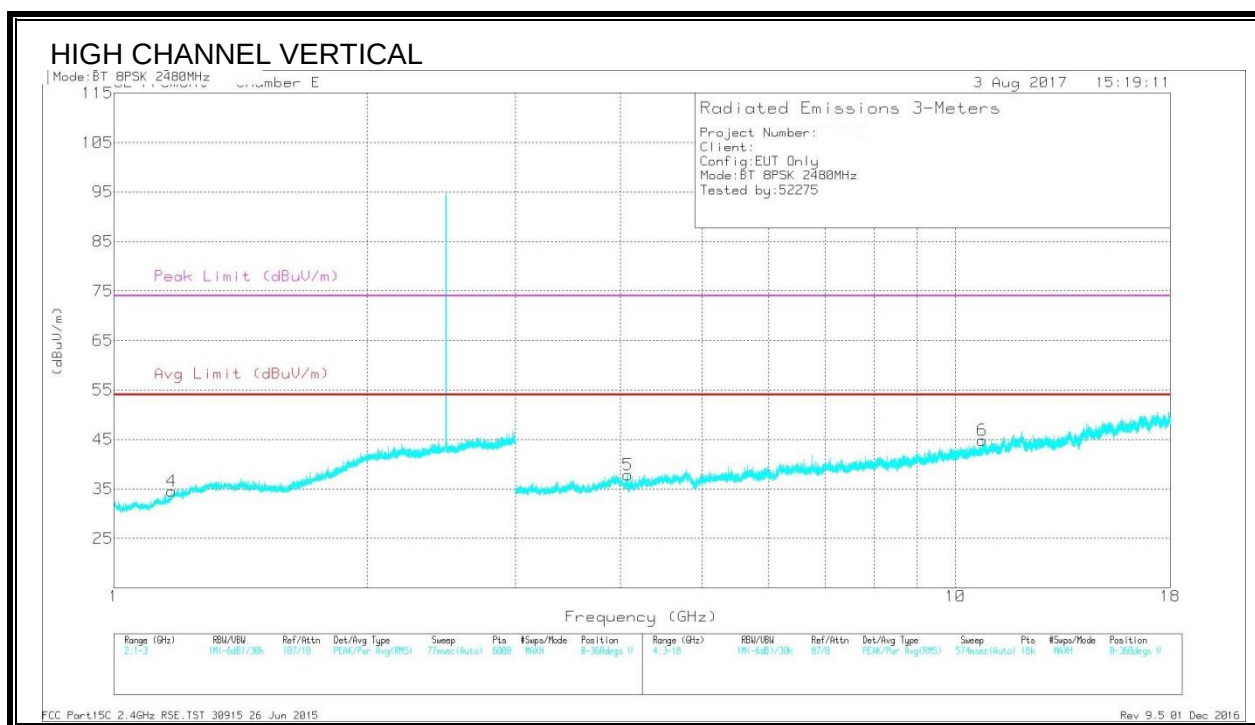
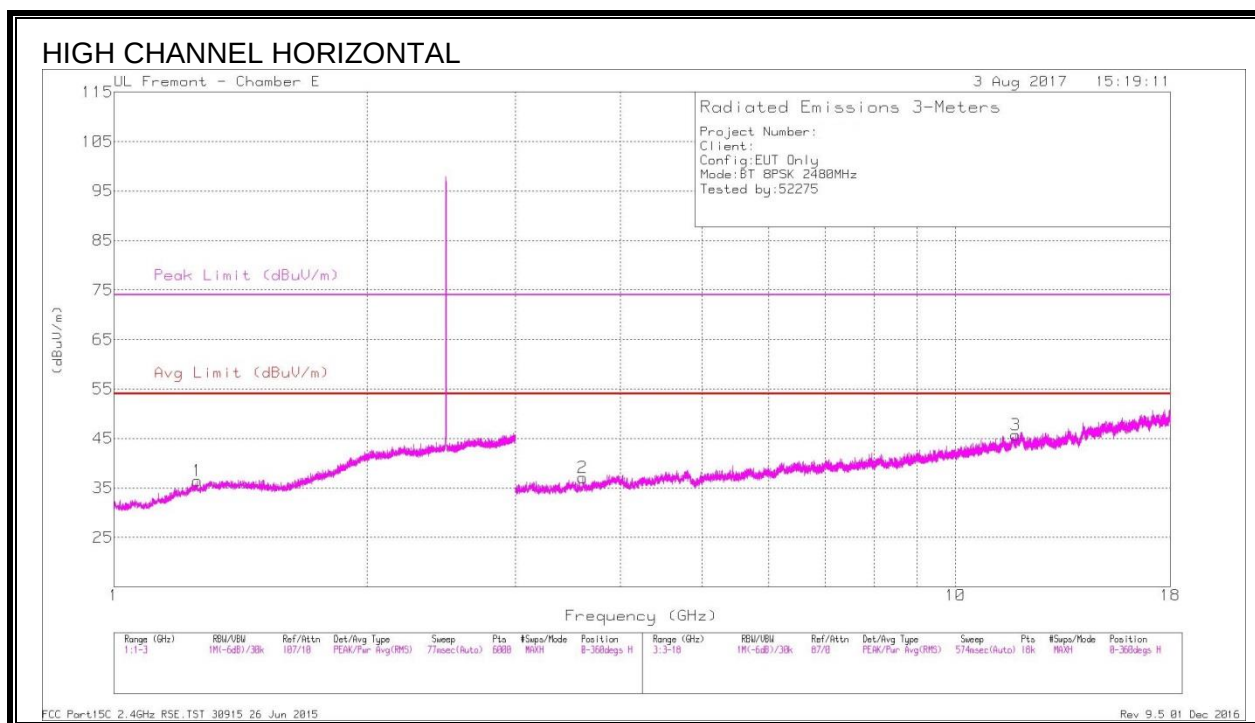
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

*.TST 30915 16 Jun 2015

Rev 9.5 01 Dec 2016



Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/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
* 1.255	34.61	PKFH	28.5	-21.7	41.41	-	-	74	-32.59	35	305	H
* 1.254	22.25	VA1T	28.5	-21.7	29.05	54	-24.95	-	-	35	305	H
* 1.172	33.52	PKFH	27.5	-22.4	38.62	-	-	74	-35.38	270	248	V
* 1.172	22.31	VA1T	27.5	-22.4	27.41	54	-26.59	-	-	270	248	V
* 3.609	39.22	PKFH	33.3	-30.3	42.22	-	-	74	-31.78	169	159	H
* 3.61	27.19	VA1T	33.3	-30.3	30.19	54	-23.81	-	-	169	159	H
* 11.795	34.47	PKFH	39.5	-23.7	50.27	-	-	74	-23.73	109	272	H
* 11.792	22.44	VA1T	39.4	-23.8	38.04	54	-15.96	-	-	109	272	H
* 4.079	38.31	PKFH	33.6	-30.1	41.81	-	-	74	-32.19	261	109	V
* 4.077	27.01	VA1T	33.6	-30.1	30.51	54	-23.49	-	-	261	109	V
* 10.772	33.83	PKFH	38.1	-23.4	48.53	-	-	74	-25.47	4	203	V
* 10.771	22.33	VA1T	38.1	-23.4	37.03	54	-16.97	-	-	4	203	V

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

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

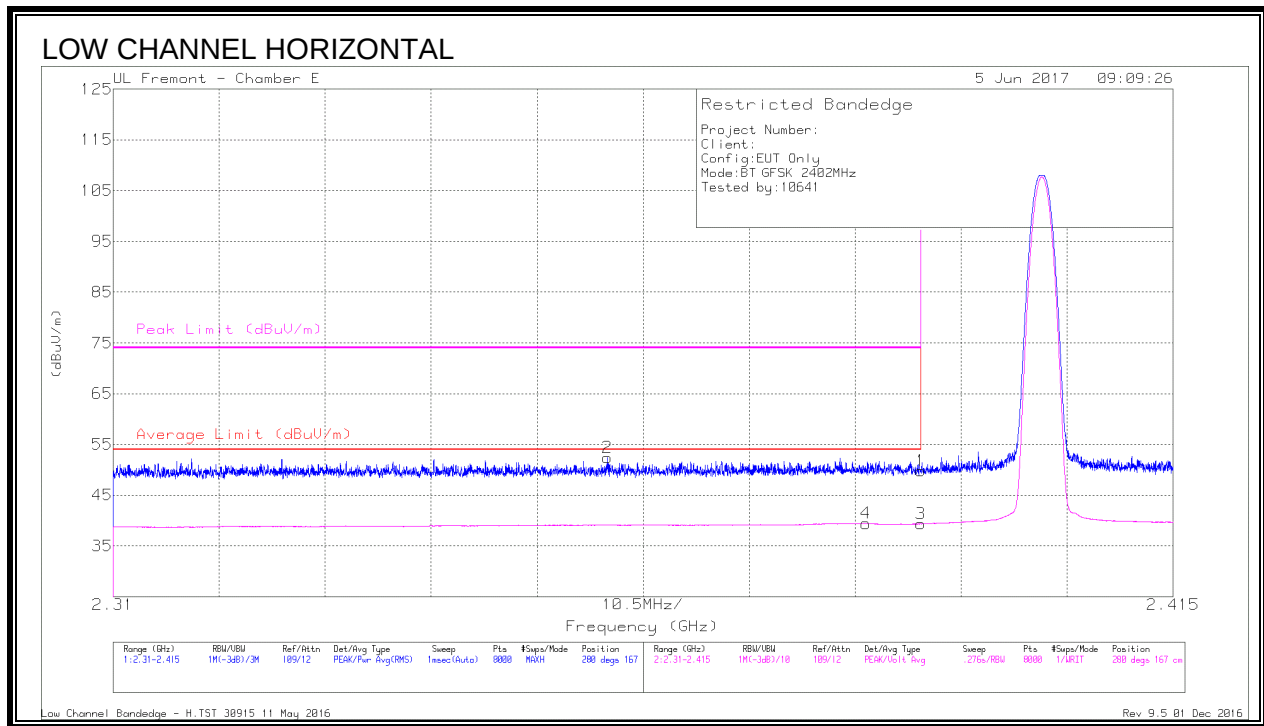
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

*.TST 30915 16 Jun 2015

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9.6. LAT3, Pmax BASIC DATA RATE GFSK MODULATION

9.6.1. RESTRICTED BANDEDGE (LOW CHANNEL)

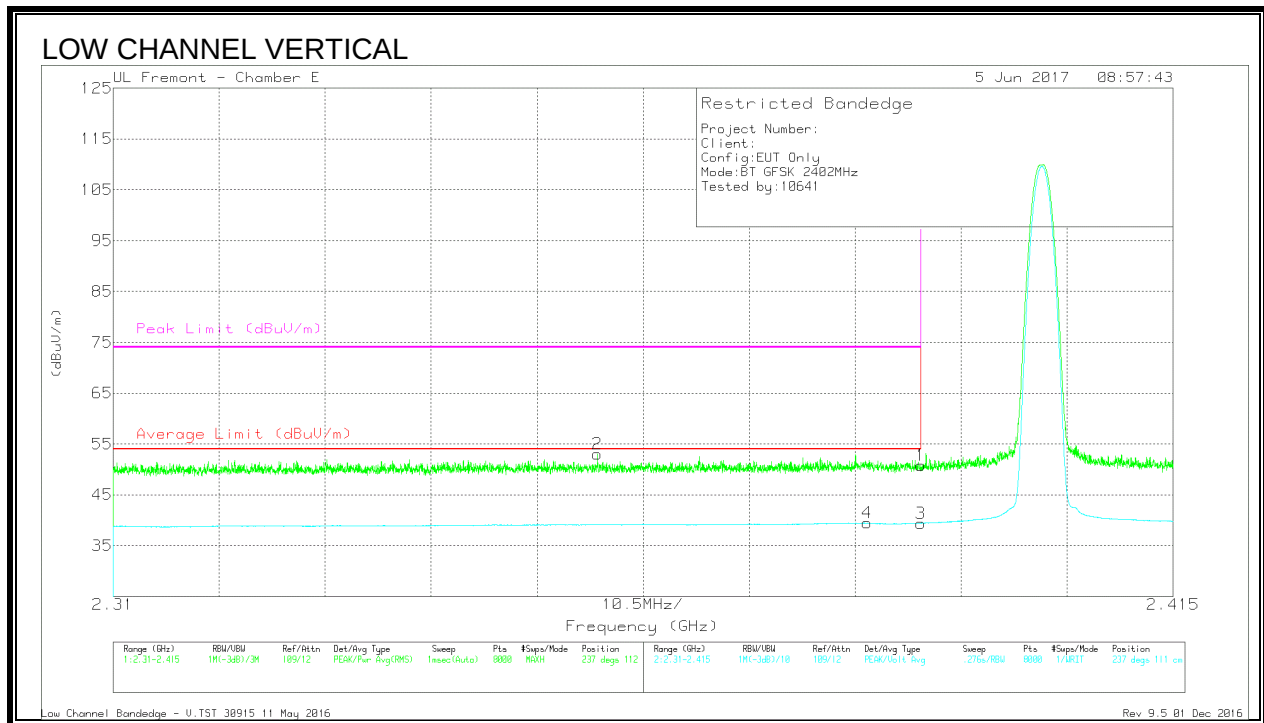


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.39	37.35	Pk	32.2	-19.7	49.85	-	-	74	-24.15	280	167	H
2	* 2.359	39.92	Pk	32.2	-19.7	52.42	-	-	74	-21.58	280	167	H
3	* 2.39	26.82	VA1T	32.2	-19.7	39.32	54	-14.68	-	-	280	167	H
4	* 2.385	26.73	VA1T	32.2	-19.5	39.43	54	-14.57	-	-	280	167	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



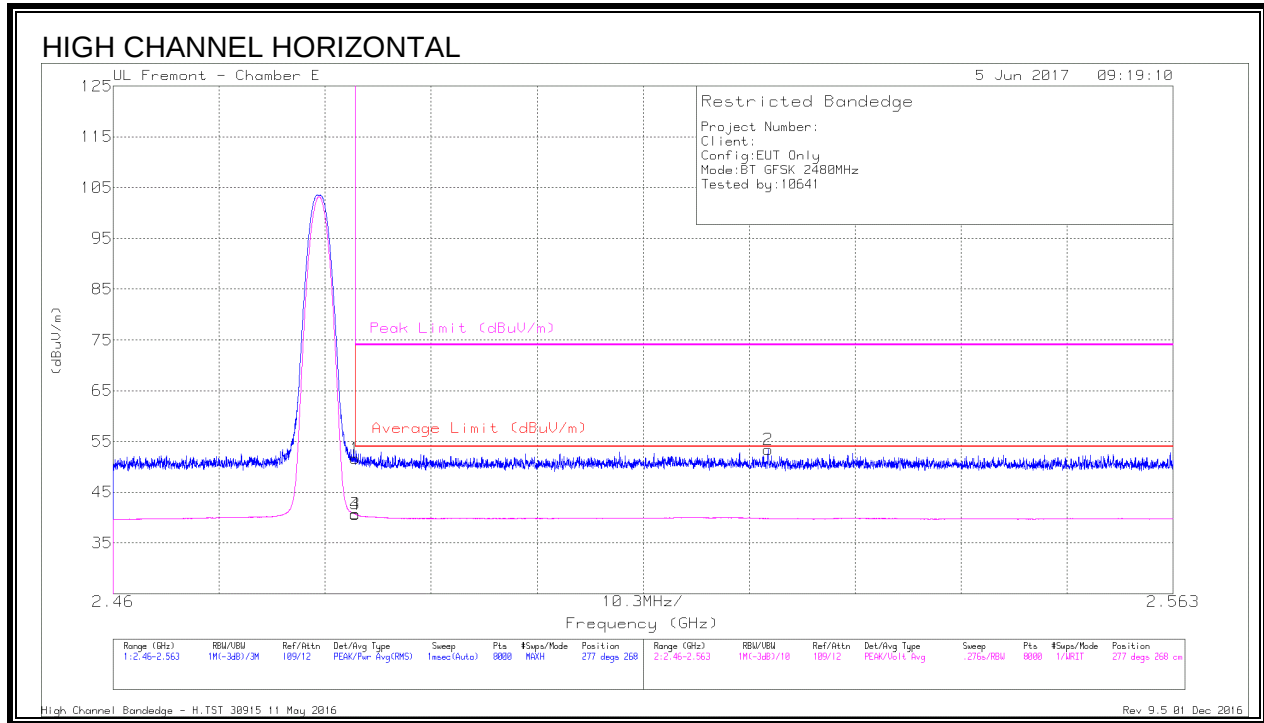
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.26	Pk	32.2	-19.7	50.76	-	-	74	-23.24	237	112	V
2	* 2.358	40.49	Pk	32.2	-19.7	52.99	-	-	74	-21.01	237	112	V
3	* 2.39	26.91	VA1T	32.2	-19.7	39.41	54	-14.59	-	-	237	111	V
4	* 2.385	26.75	VA1T	32.2	-19.5	39.45	54	-14.55	-	-	237	111	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

9.6.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)

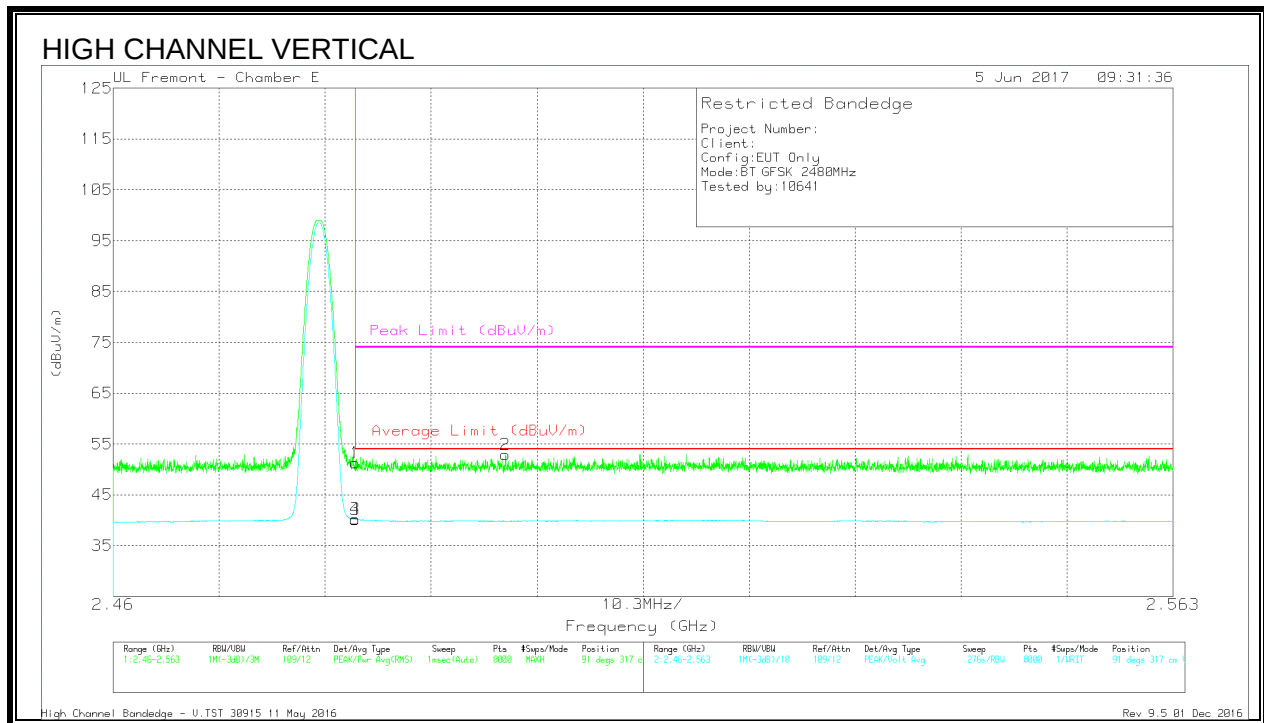


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.66	Pk	32.7	-19.7	51.66	-	-	74	-22.34	277	268	H
3	* 2.484	27.68	VA1T	32.7	-19.7	40.68	54	-13.32	-	-	277	268	H
4	* 2.484	27.64	VA1T	32.7	-19.7	40.64	54	-13.36	-	-	277	268	H
2	2.524	40.61	Pk	32.7	-19.9	53.41	-	-	74	-20.59	277	268	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



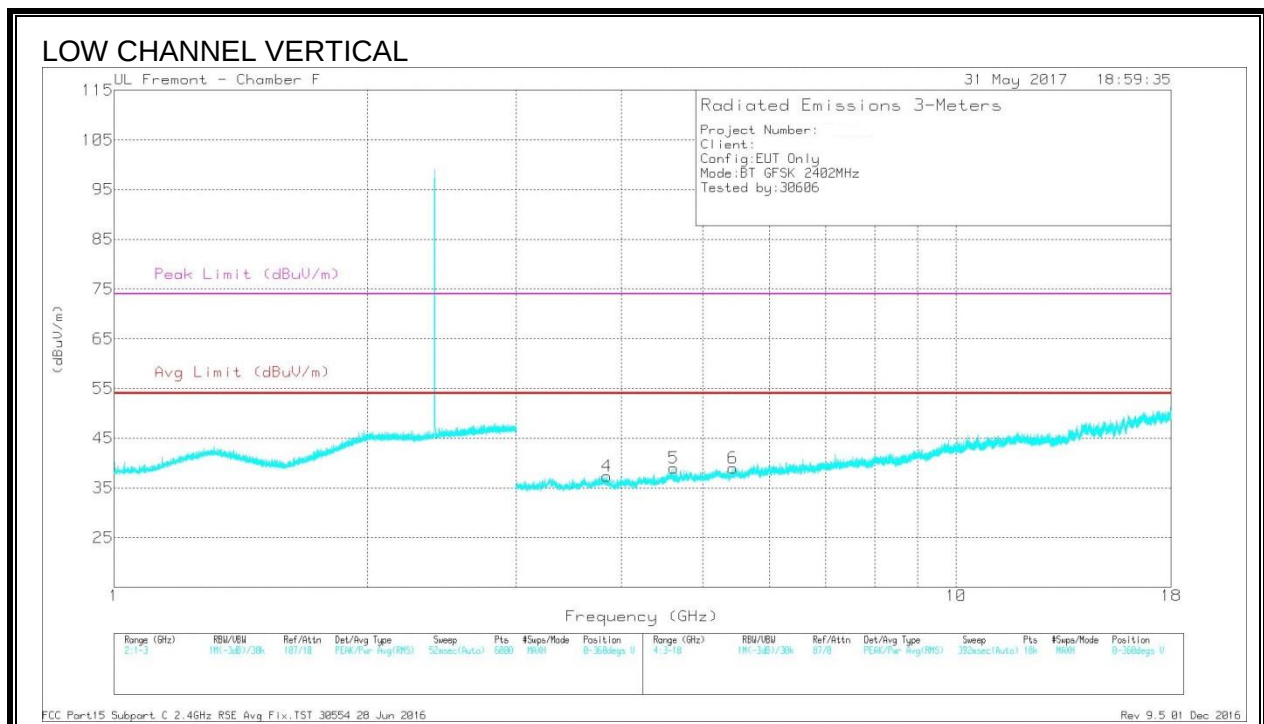
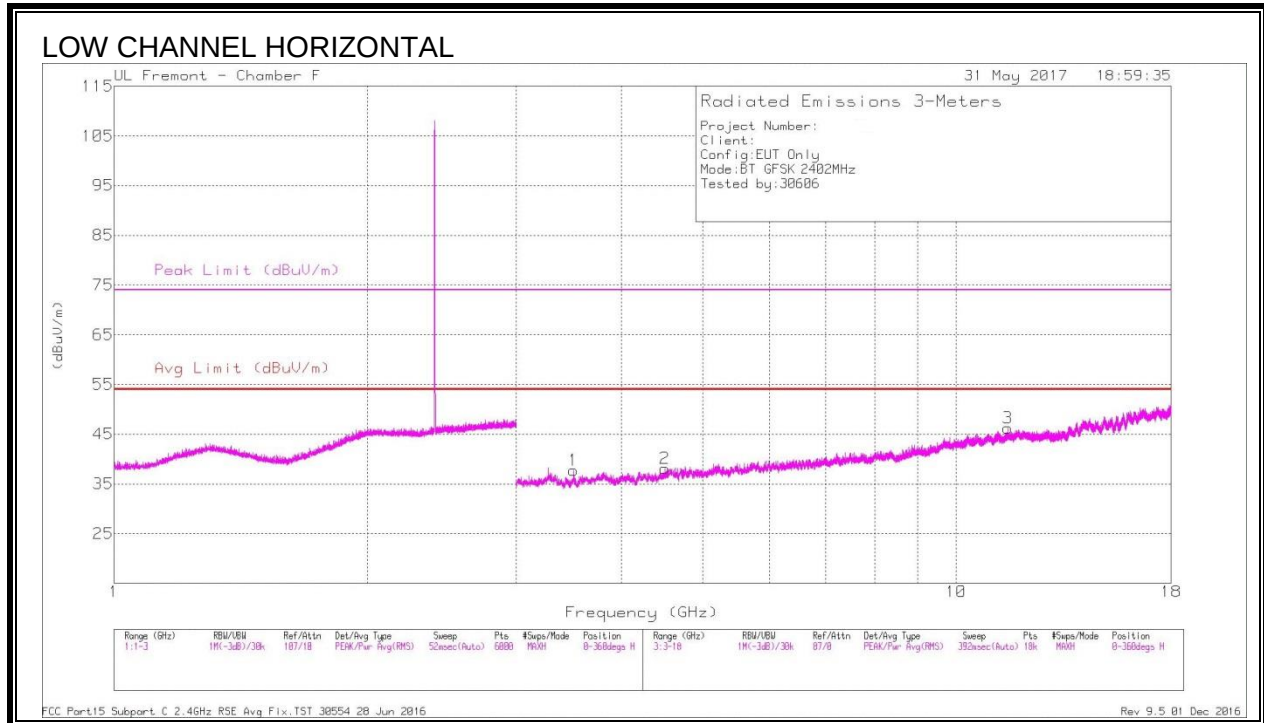
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.23	Pk	32.7	-19.7	51.23	-	-	74	-22.77	91	317	V
3	* 2.484	27.17	VA1T	32.7	-19.7	40.17	54	-13.83	-	-	91	317	V
4	* 2.484	27.18	VA1T	32.7	-19.7	40.18	54	-13.82	-	-	91	317	V
2	* 2.498	40.15	Pk	32.7	-19.9	52.95	-	-	74	-21.05	91	317	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

9.6.3. HARMONICS AND SPURIOUS EMISSIONS



Marker	Frequenc y (GHz)	Meter Readin g (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth h (Degs)	Height (cm)	Polarit y
1	* 3.511	38.04	PKFH	33	-28.4	42.64	-	-	74	-31.36	90	348	H
	* 3.509	26.01	VA1T	33	-28.5	30.51	54	-23.49	-	-	90	348	H
2	* 4.51	37.5	PKFH	34.1	-28.1	43.5	-	-	74	-30.5	154	364	H
	* 4.513	26.04	VA1T	34.1	-28.1	32.04	54	-21.96	-	-	154	364	H
3	* 11.51	34.18	PKFH	38.5	-21.1	51.58	-	-	74	-22.42	313	383	H
	* 11.509	22.43	VA1T	38.5	-21.1	39.83	54	-14.17	-	-	313	383	H
5	* 4.618	38.26	PKFH	34.1	-28.2	44.16	-	-	74	-29.84	159	160	V
	* 4.62	26.13	VA1T	34.1	-28.3	31.93	54	-22.07	-	-	159	160	V
6	* 5.429	37.41	PKFH	34.7	-27.6	44.51	-	-	74	-29.49	98	381	V
	* 5.426	25.44	VA1T	34.7	-27.5	32.64	54	-21.36	-	-	98	381	V
4	* 3.849	38.18	PKFH	33.3	-28.3	43.18	-	-	74	-30.82	289	376	V
	* 3.85	26.41	VA1T	33.3	-28.3	31.41	54	-22.59	-	-	289	376	V

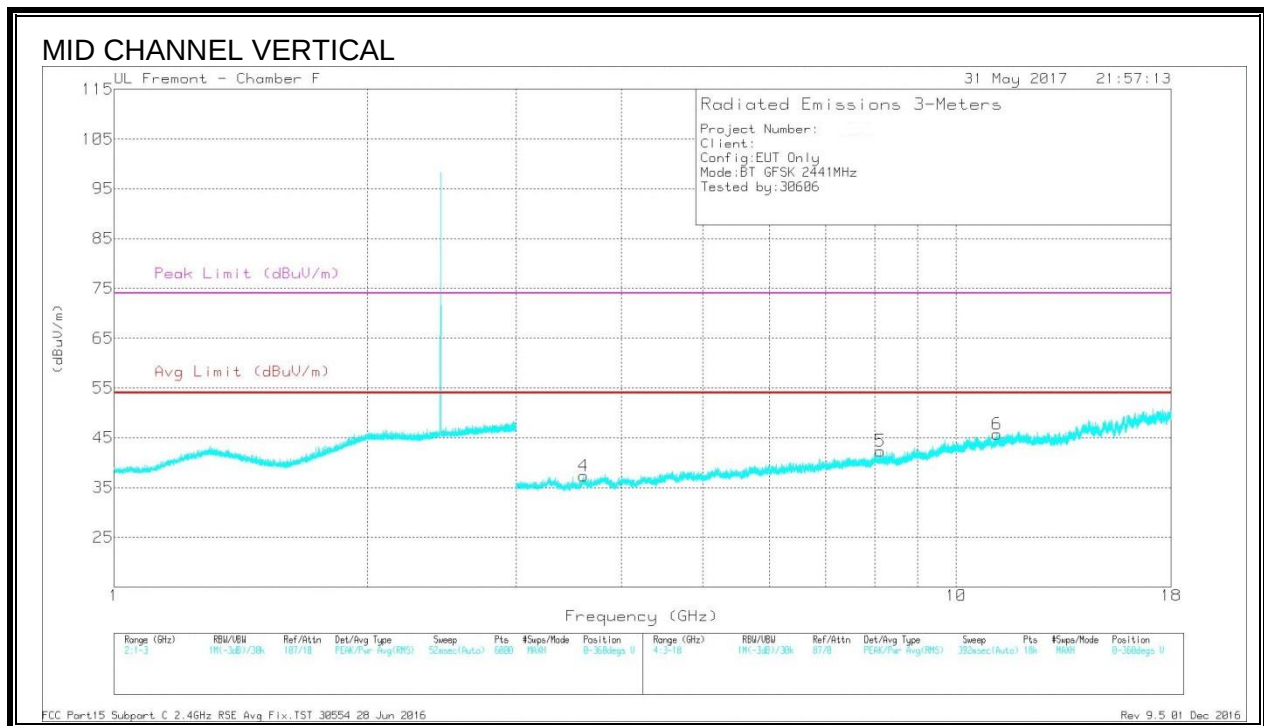
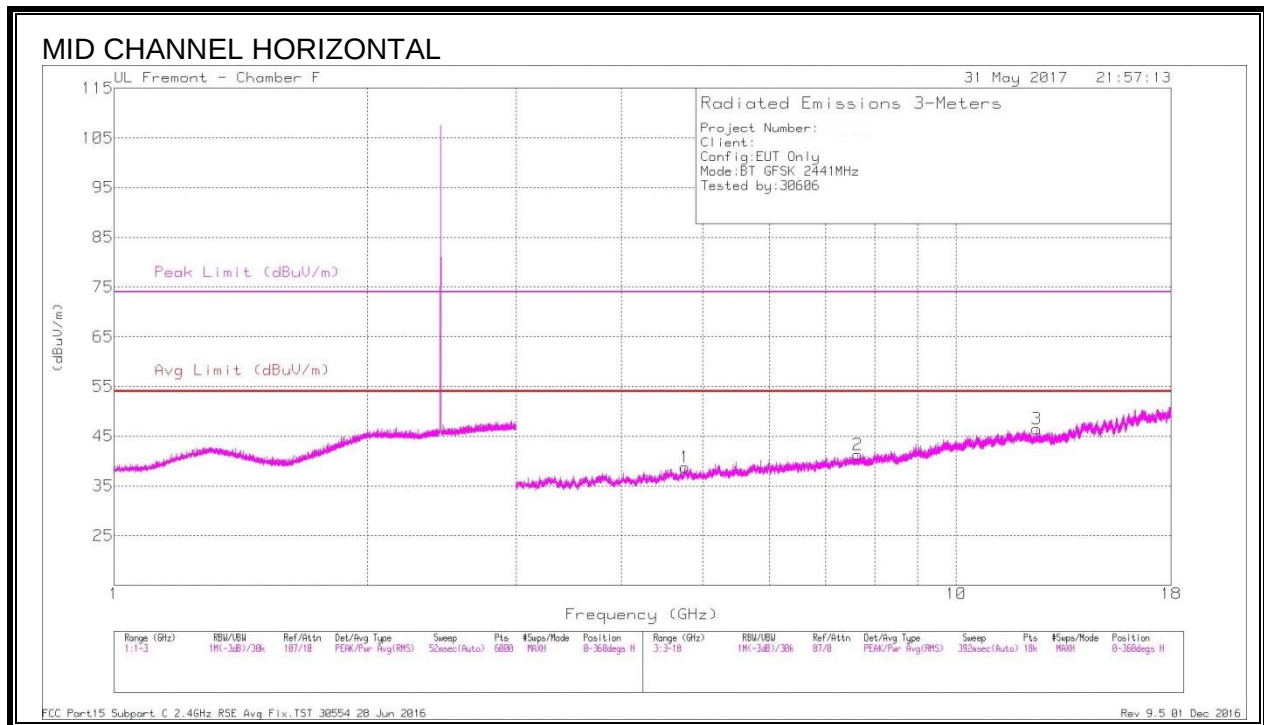
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 T119 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.759	37.69	PKFH	34.1	-27.8	43.99	-	-	74	-30.01	21	150	H
	* 4.76	25.81	VA1T	34.1	-27.8	32.11	54	-21.89	-	-	21	150	H
2	* 7.64	35.45	PKFH	36.1	-24.9	46.65	-	-	74	-27.35	21	150	H
	* 7.64	23.58	VA1T	36.1	-24.9	34.78	54	-19.22	-	-	21	150	H
3	* 12.457	35.04	PKFH	38.8	-22.1	51.74	-	-	74	-22.26	21	150	H
	* 12.459	22.87	VA1T	38.8	-22.1	39.57	54	-14.43	-	-	21	150	H
4	* 3.61	38.89	PKFH	33.1	-29.2	42.79	-	-	74	-31.21	21	150	V
	* 3.613	26.57	VA1T	33.2	-29.1	30.67	54	-23.33	-	-	21	150	V
5	* 8.128	35.89	PKFH	36.1	-24	47.99	-	-	74	-26.01	21	150	V
	* 8.125	23.36	VA1T	36.1	-24	35.46	54	-18.54	-	-	21	150	V
6	* 11.185	34.76	PKFH	38.1	-21.5	51.36	-	-	74	-22.64	21	150	V
	* 11.186	22.6	VA1T	38.1	-21.5	39.2	54	-14.8	-	-	21	150	V

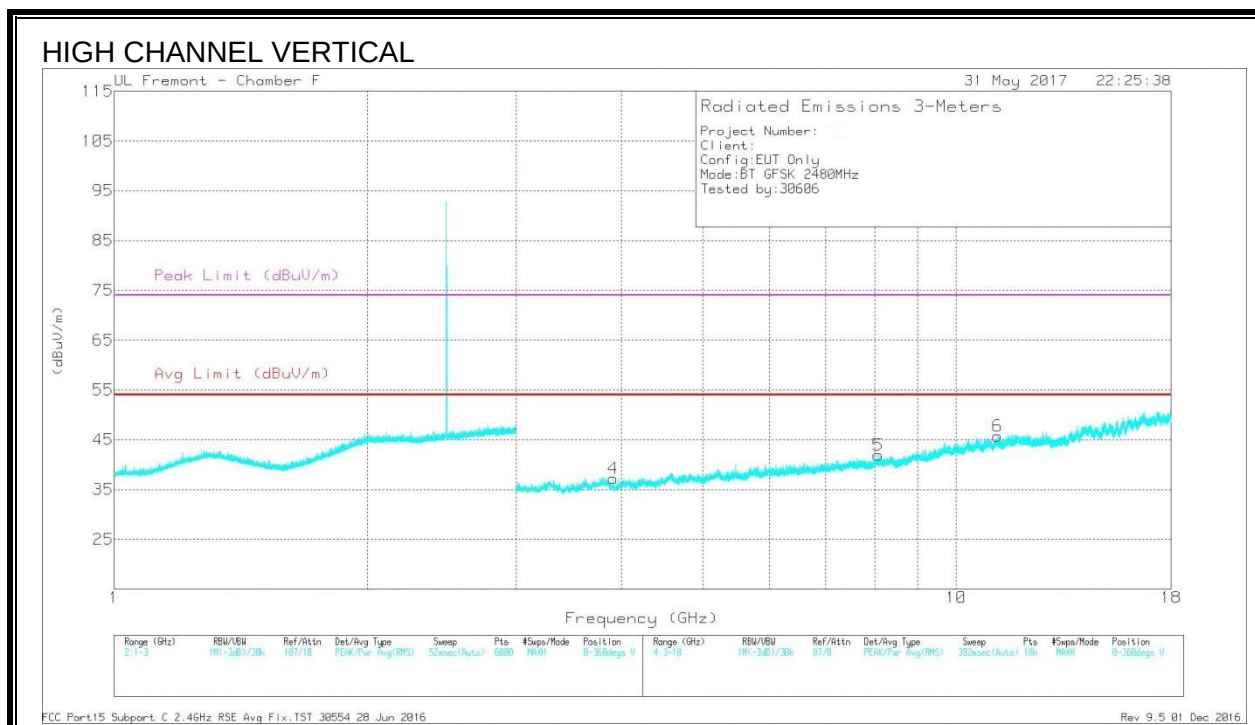
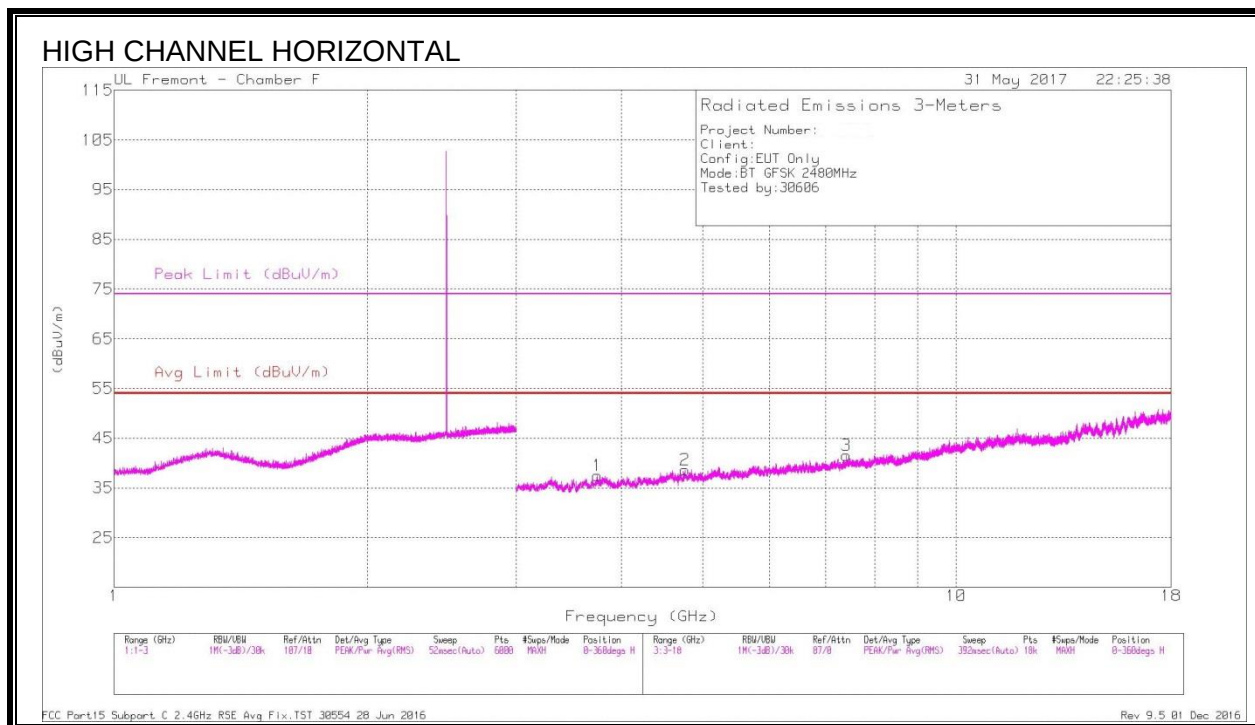
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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	AFT119 (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	* 3.748	39.14	PKFH	33.3	-29.2	43.24	-	-	74	-30.76	0	100	H
	* 3.752	26.78	VA1T	33.3	-29.2	30.88	54	-23.12	-	-	0	100	H
2	* 4.761	37.37	PKFH	34.1	-27.8	43.67	-	-	74	-30.33	0	100	H
	* 4.76	26	VA1T	34.1	-27.8	32.3	54	-21.7	-	-	0	100	H
3	* 7.412	36.23	PKFH	36	-25.3	46.93	-	-	74	-27.07	0	100	H
	* 7.411	24.12	VA1T	36	-25.3	34.82	54	-19.18	-	-	0	100	H
4	* 3.915	38.89	PKFH	33.2	-29.1	42.99	-	-	74	-31.01	0	100	V
	* 3.914	26.46	VA1T	33.2	-29.1	30.56	54	-23.44	-	-	0	100	V
5	* 8.078	36.7	PKFH	36	-24.2	48.5	-	-	74	-25.5	0	100	V
	* 8.08	23.58	VA1T	36	-24.3	35.28	54	-18.72	-	-	0	100	V
6	* 11.201	34.61	PKFH	38.1	-21.2	51.51	-	-	74	-22.49	0	100	V
	* 11.202	22.61	VA1T	38.1	-21.2	39.51	54	-14.49	-	-	0	100	V

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

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

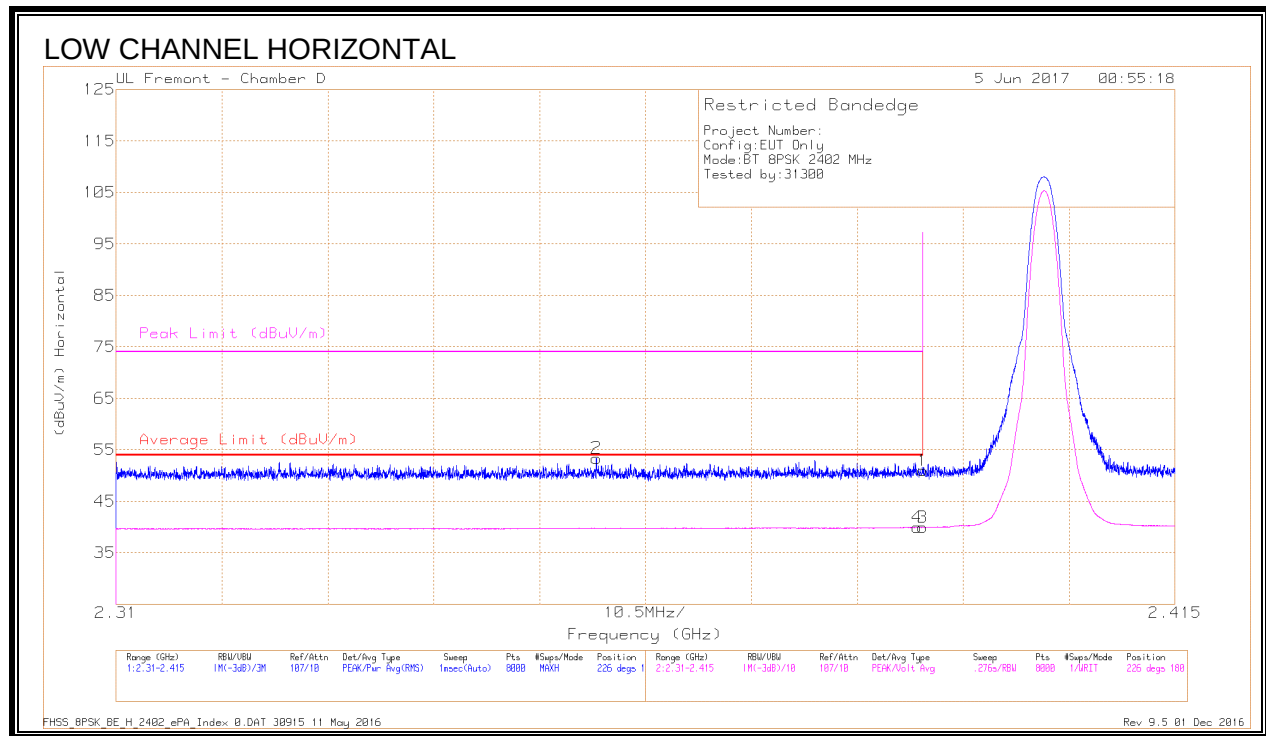
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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9.7. LAT3, 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/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	39.61	Pk	32.1	-20.7	51.01	-	-	74	-22.99	226	180	H
2	* 2.358	42.07	Pk	32.1	-20.8	53.37	-	-	74	-20.63	226	180	H
3	* 2.39	28.53	VA1T	32.1	-20.7	39.93	54	-14.07	-	-	226	180	H
4	* 2.389	28.67	VA1T	32.1	-20.8	39.97	54	-14.03	-	-	226	180	H

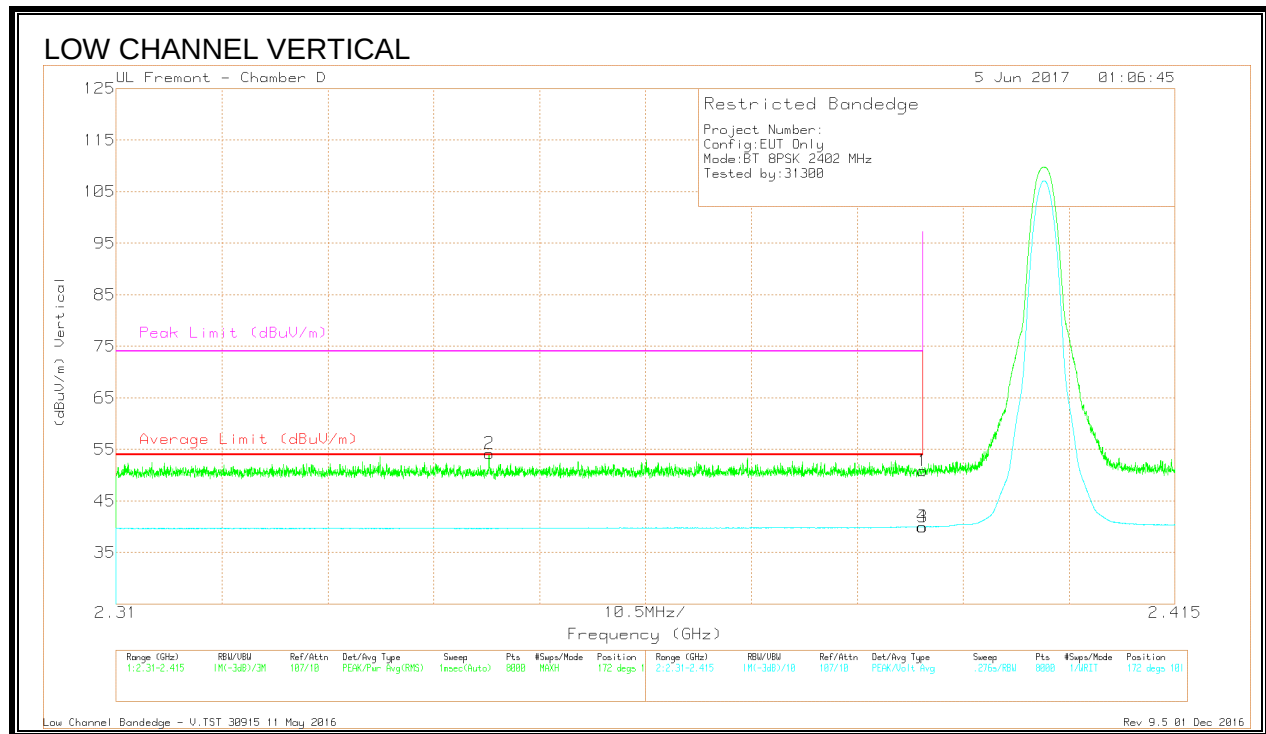
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

FHSS_8PSK_BE_H_2402_ePA_Index 0.DAT 30915 11 May 2016

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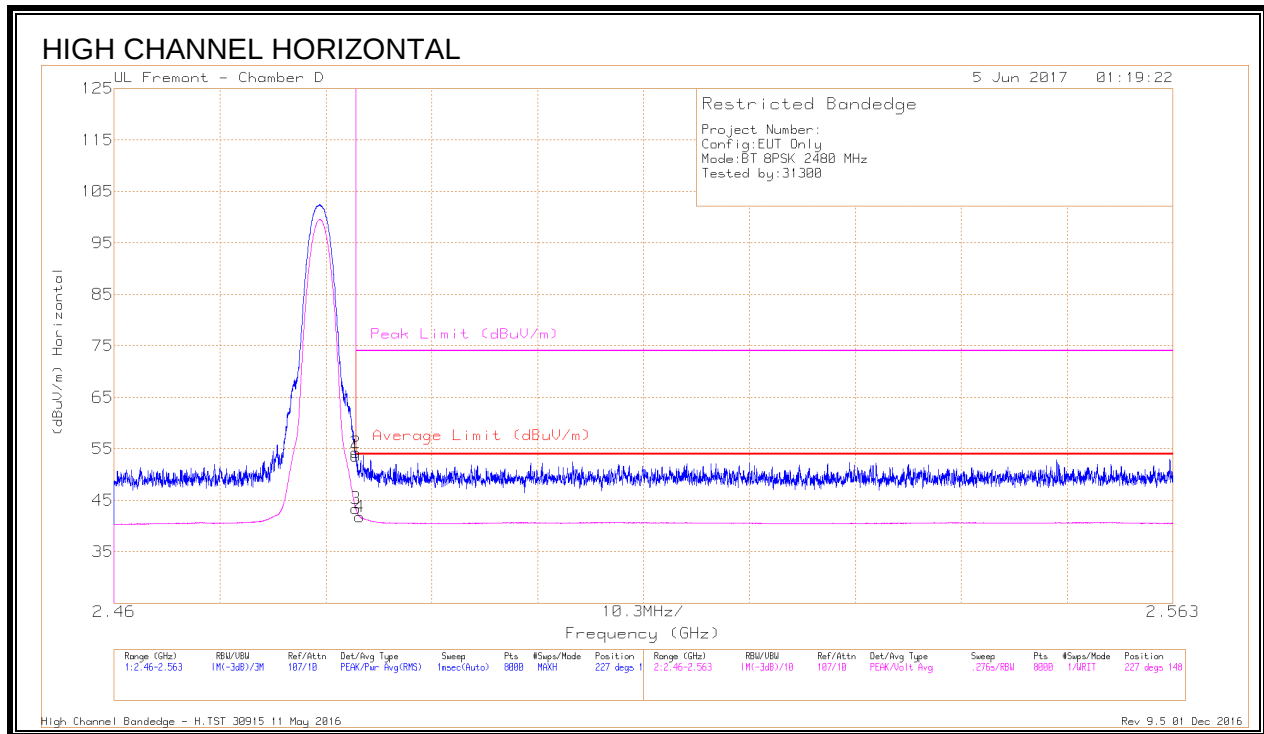
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.49	Pk	32.1	-20.7	50.89	-	-	74	-23.11	172	101	V
2	* 2.347	43.01	Pk	32.1	-20.9	54.21	-	-	74	-19.79	172	101	V
3	* 2.39	28.58	VA1T	32.1	-20.7	39.98	54	-14.02	-	-	172	101	V
4	* 2.39	28.61	VA1T	32.1	-20.7	40.01	54	-13.99	-	-	172	101	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

9.7.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)

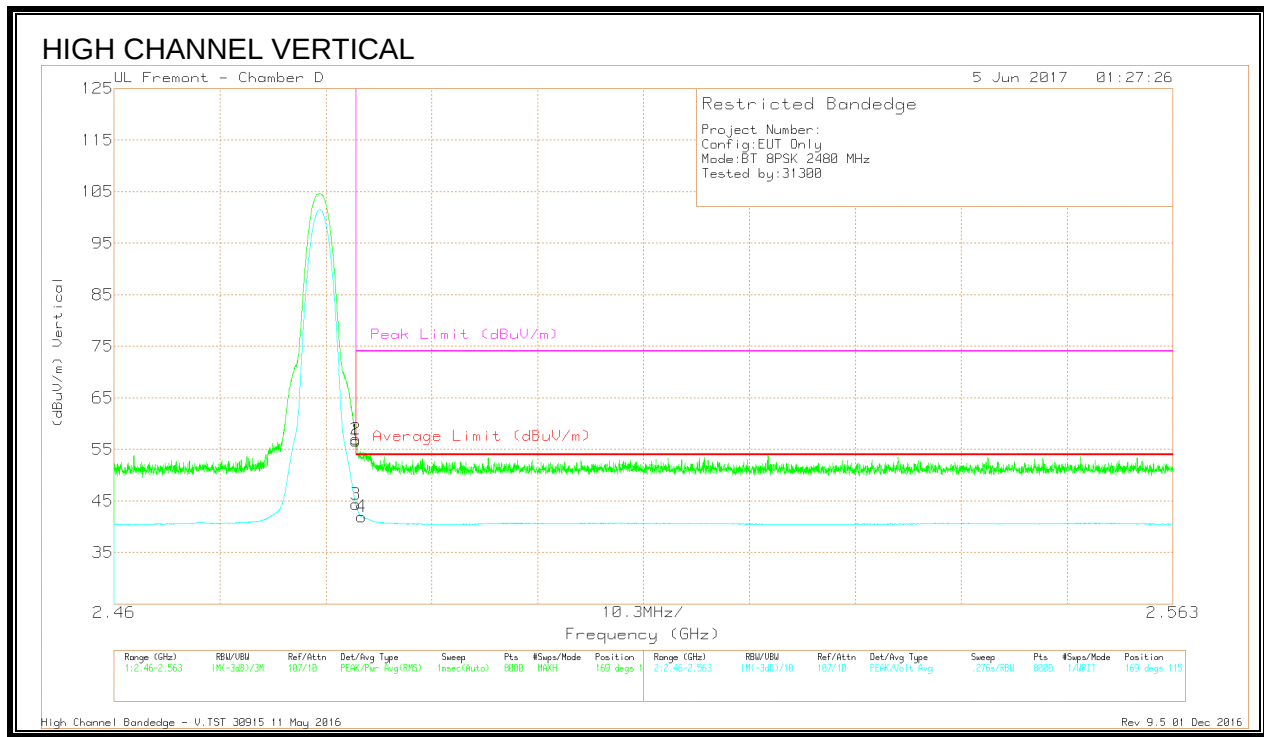


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.484	41.94	Pk	32.5	-20.8	53.64	-	-	74	-20.36	227	148	H
2	* 2.484	42.61	Pk	32.5	-20.8	54.31	-	-	74	-19.69	227	148	H
3	* 2.484	31.72	VA1T	32.5	-20.8	43.42	54	-10.58	-	-	227	148	H
4	* 2.484	30.06	VA1T	32.5	-20.8	41.76	54	-12.24	-	-	227	148	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



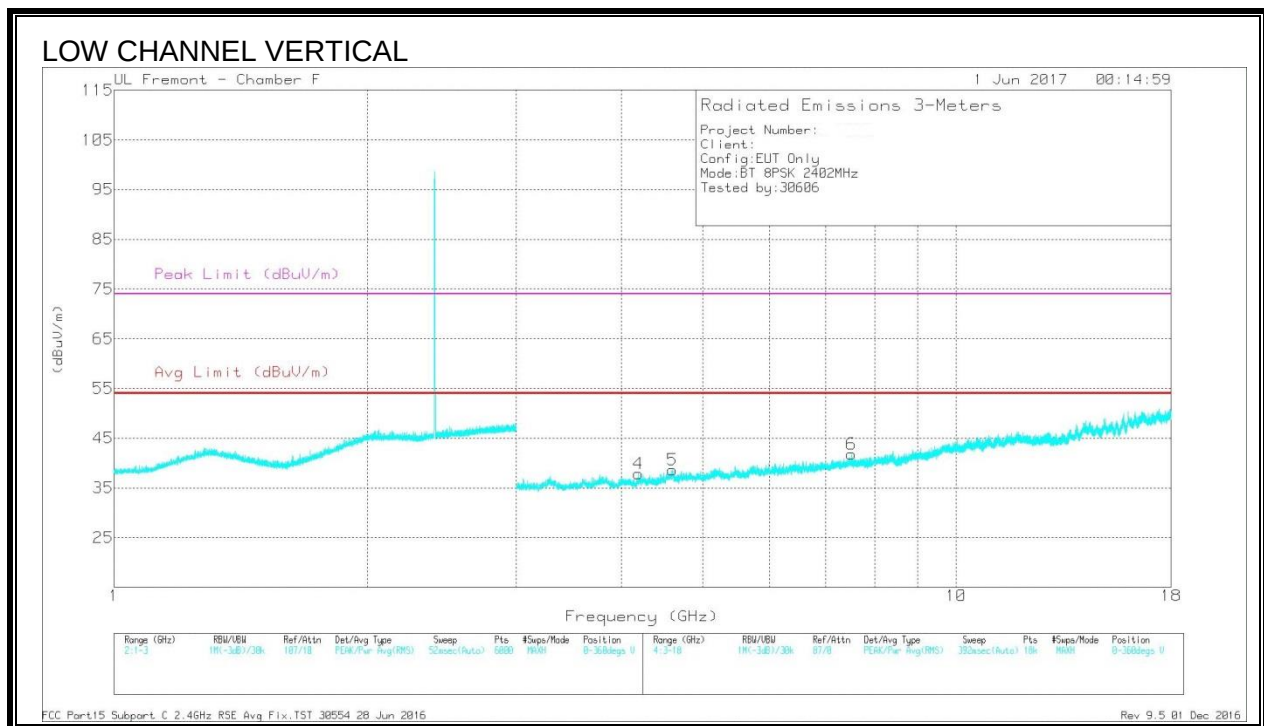
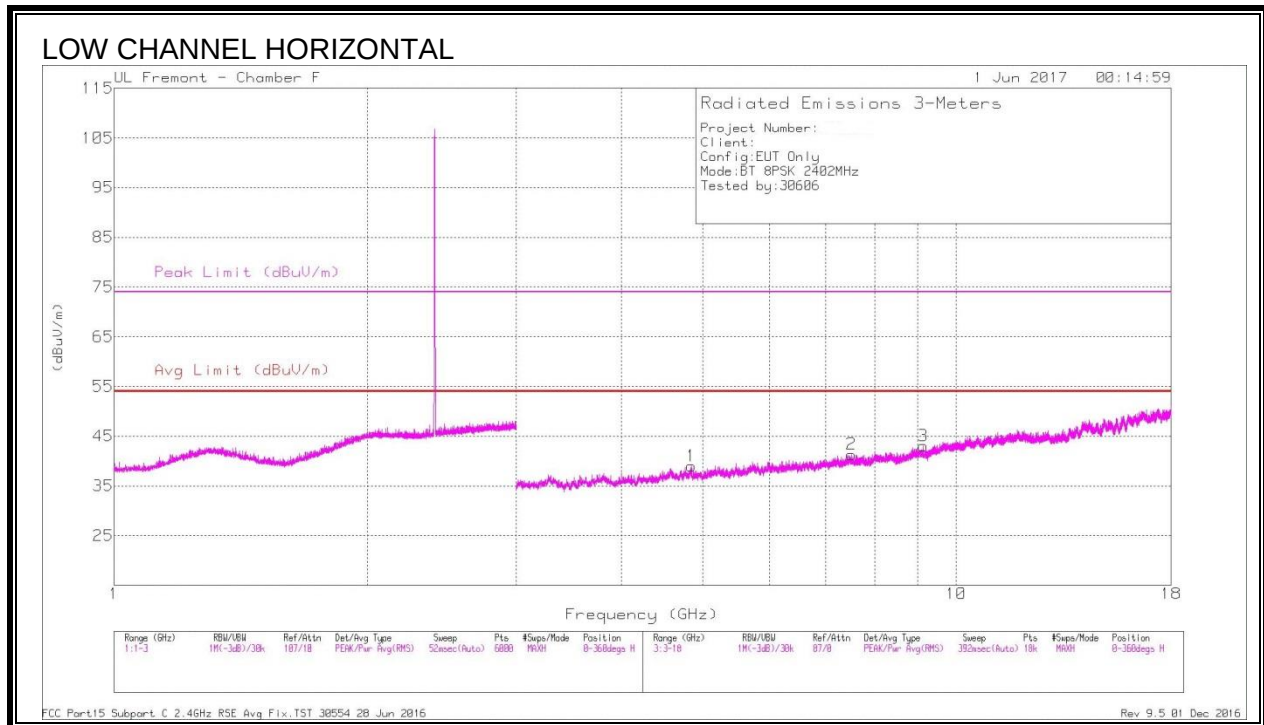
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.99	Pk	32.5	-20.8	56.69	-	-	74	-17.31	169	115	V
2	* 2.484	45.32	Pk	32.5	-20.8	57.02	-	-	74	-16.98	169	115	V
3	* 2.484	32.63	VA1T	32.5	-20.8	44.33	54	-9.67	-	-	169	115	V
4	* 2.484	30.26	VA1T	32.5	-20.8	41.96	54	-12.04	-	-	169	115	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

9.7.3. HARMONICS AND SPURIOUS EMISSIONS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.85	37.17	PKFH	34.2	-27.5	43.87	-	-	74	-30.13	330	187	H
	* 4.85	25.35	VA1T	34.2	-27.5	32.05	54	-21.95	-	-	330	187	H
2	* 7.503	36.23	PKFH	36.1	-25.3	47.03	-	-	74	-26.97	63	361	H
	* 7.501	24.04	VA1T	36.1	-25.3	34.84	54	-19.16	-	-	63	361	H
3	* 9.129	34.9	PKFH	36.4	-22.9	48.4	-	-	74	-25.6	97	348	H
	* 9.13	22.66	VA1T	36.4	-22.9	36.16	54	-17.84	-	-	97	348	H
4	* 4.192	37.58	PKFH	33.5	-28	43.08	-	-	74	-30.92	287	400	V
	* 4.192	25.53	VA1T	33.5	-28	31.03	54	-22.97	-	-	287	400	V
5	* 4.605	37.94	PKFH	34.1	-28	44.04	-	-	74	-29.96	323	172	V
	* 4.603	26.11	VA1T	34.1	-27.9	32.31	54	-21.69	-	-	323	172	V
6	* 7.506	36.21	PKFH	36.1	-25.3	47.01	-	-	74	-26.99	266	211	V
	* 7.503	23.98	VA1T	36.1	-25.3	34.78	54	-19.22	-	-	266	211	V

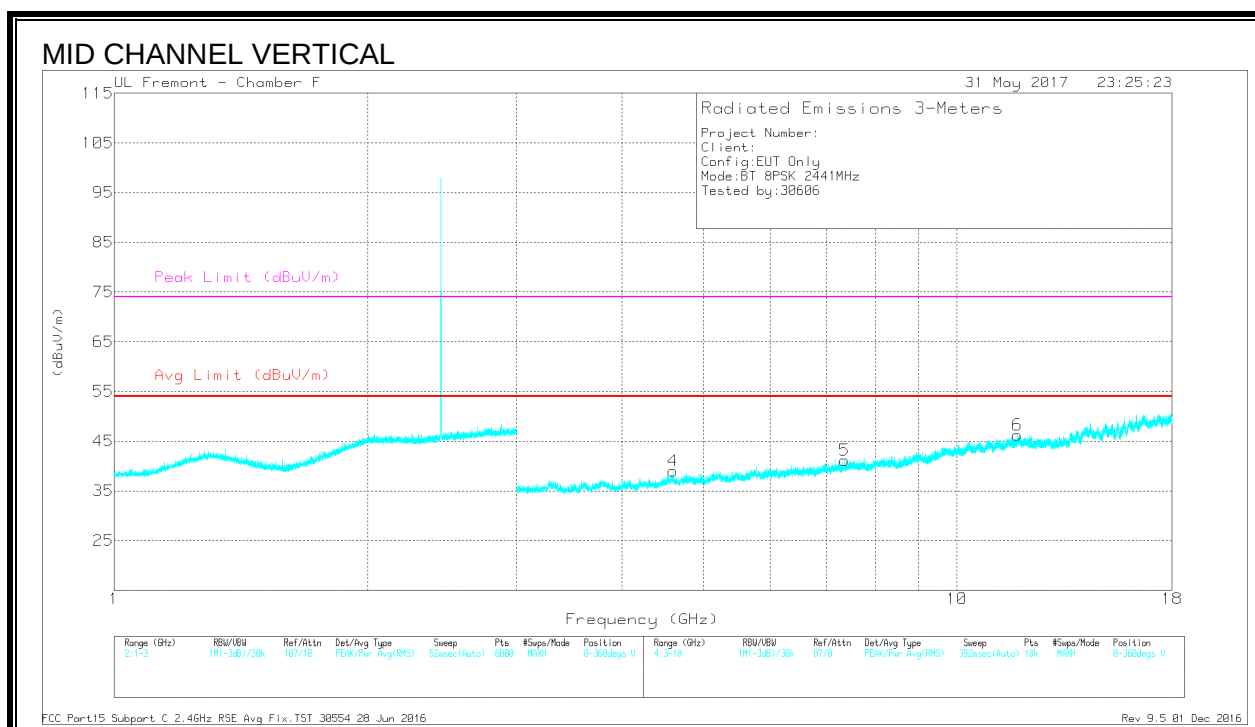
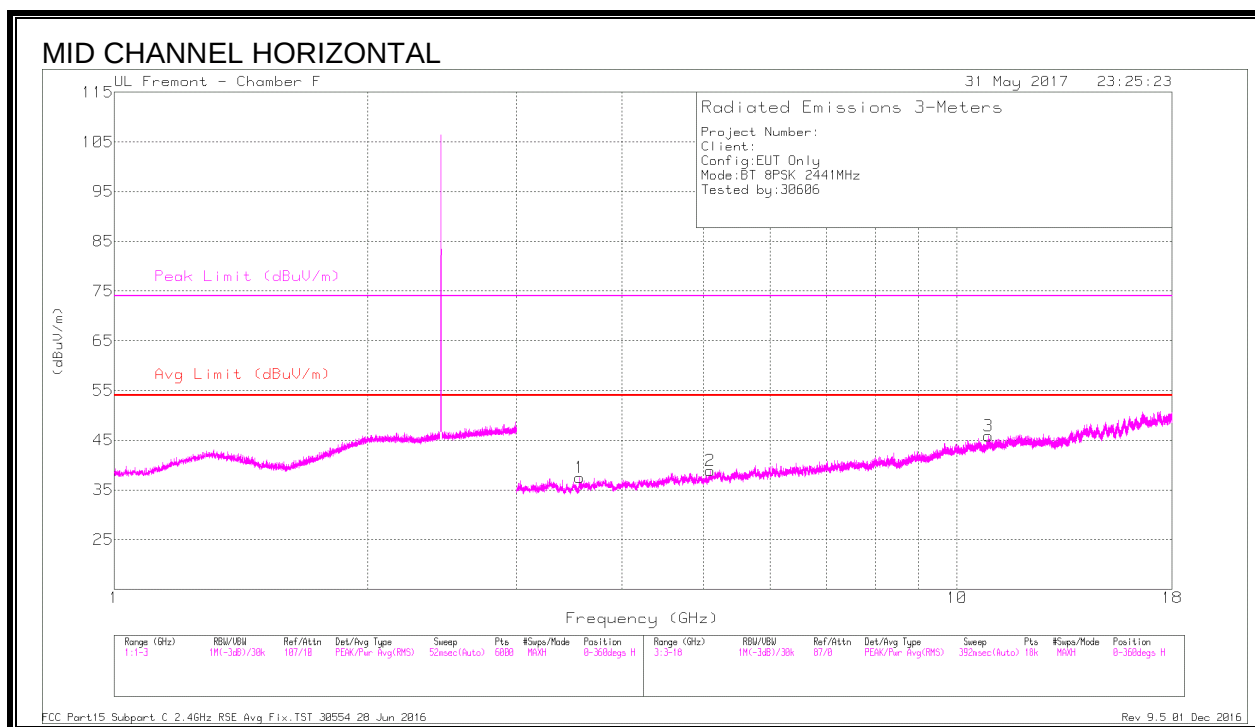
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 T119 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.568	39.02	PKFH	33.1	-28.9	43.22	-	-	74	-30.78	82	266	H
	* 3.569	26.51	VA1T	33.1	-28.9	30.71	54	-23.29	-	-	82	266	H
2	* 5.092	38.16	PKFH	34.3	-27.4	45.06	-	-	74	-28.94	150	260	H
	* 5.09	25.38	VA1T	34.3	-27.4	32.28	54	-21.72	-	-	150	260	H
3	* 10.902	34.41	PKFH	37.8	-21.2	51.01	-	-	74	-22.99	38	287	H
	* 10.903	22.47	VA1T	37.8	-21.2	39.07	54	-14.93	-	-	38	287	H
4	* 4.601	37.8	PKFH	34.1	-27.9	44	-	-	74	-30	309	269	V
	* 4.601	26.15	VA1T	34.1	-27.9	32.35	54	-21.65	-	-	309	269	V
5	* 7.355	36.7	PKFH	35.9	-25.5	47.1	-	-	74	-26.9	117	331	V
	* 7.357	24.12	VA1T	35.9	-25.5	34.52	54	-19.48	-	-	117	331	V
6	* 11.792	34.37	PKFH	39	-22	51.37	-	-	74	-22.63	40	257	V
	* 11.791	22.66	VA1T	39	-22	39.66	54	-14.34	-	-	40	257	V

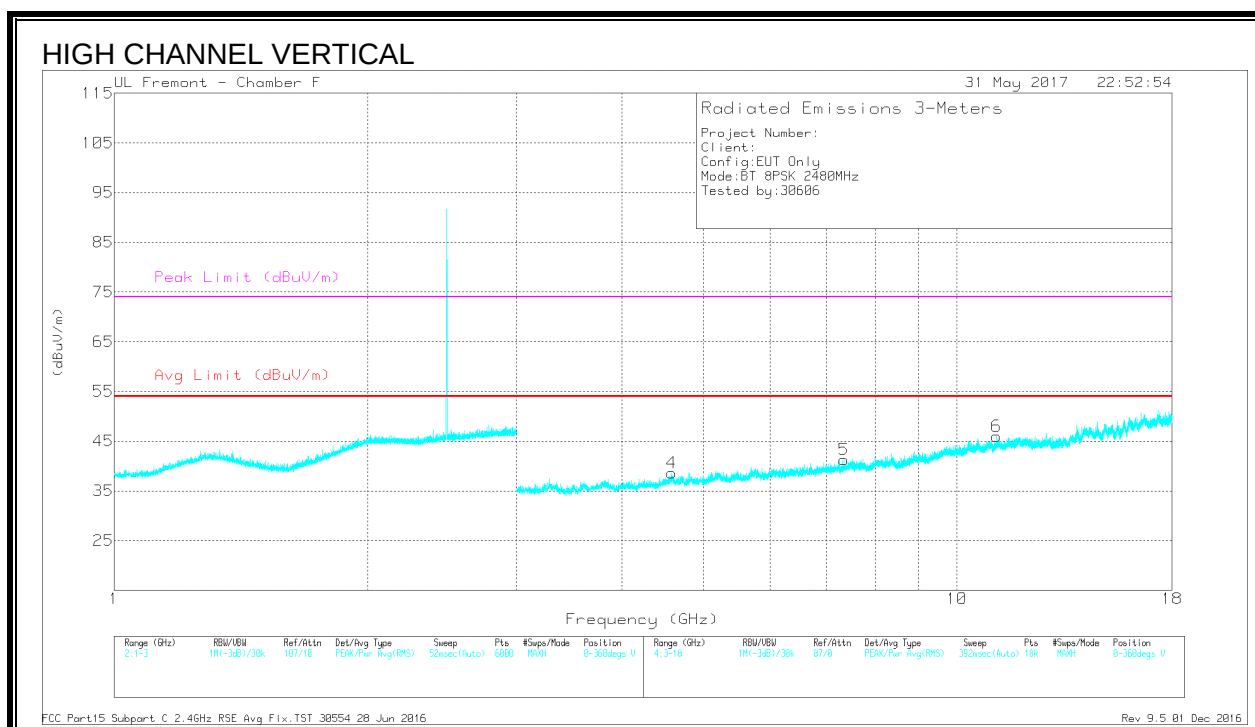
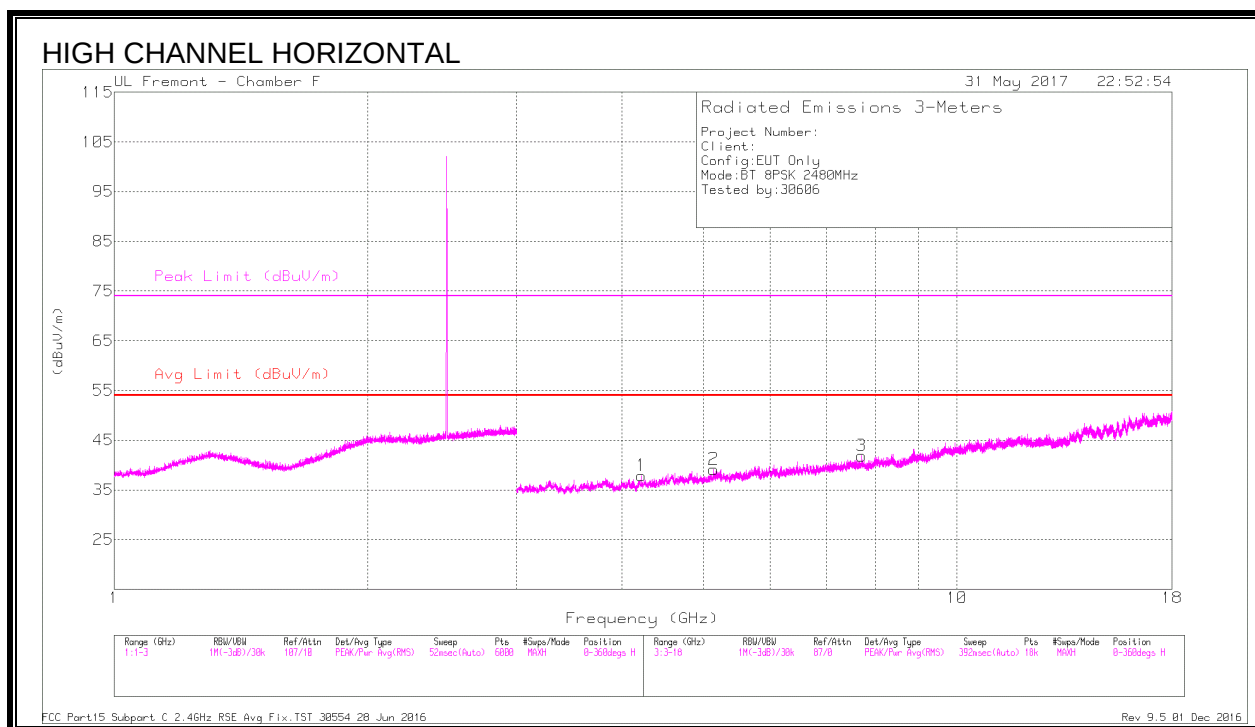
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 01 Dec 2016



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl /Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.224	36.9	PKFH	33.6	-28.1	42.4	-	-	74	-31.6	174	115	H
	* 4.222	25.44	VA1T	33.6	-28.1	30.94	54	-23.06	-	-	174	115	H
2	* 5.144	36.91	PKFH	34.4	-26.9	44.41	-	-	74	-29.59	169	371	H
	* 5.144	24.88	VA1T	34.4	-26.9	32.38	54	-21.62	-	-	169	371	H
3	* 7.702	35.73	PKFH	36.1	-25.1	46.73	-	-	74	-27.27	60	201	H
	* 7.698	24.07	VA1T	36.1	-25.2	34.97	54	-19.03	-	-	60	201	H
4	* 4.592	37.76	PKFH	34.1	-27.7	44.16	-	-	74	-29.84	138	151	V
	* 4.59	26.44	VA1T	34.1	-27.7	32.84	54	-21.16	-	-	138	151	V
5	* 7.34	36.41	PKFH	35.9	-25.8	46.51	-	-	74	-27.49	205	163	V
	* 7.337	24.58	VA1T	35.9	-25.9	34.58	54	-19.42	-	-	205	163	V
6	* 11.139	34.68	PKFH	38.1	-21.7	51.08	-	-	74	-22.92	170	386	V
	* 11.14	22.7	VA1T	38.1	-21.7	39.1	54	-14.9	-	-	170	386	V

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

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

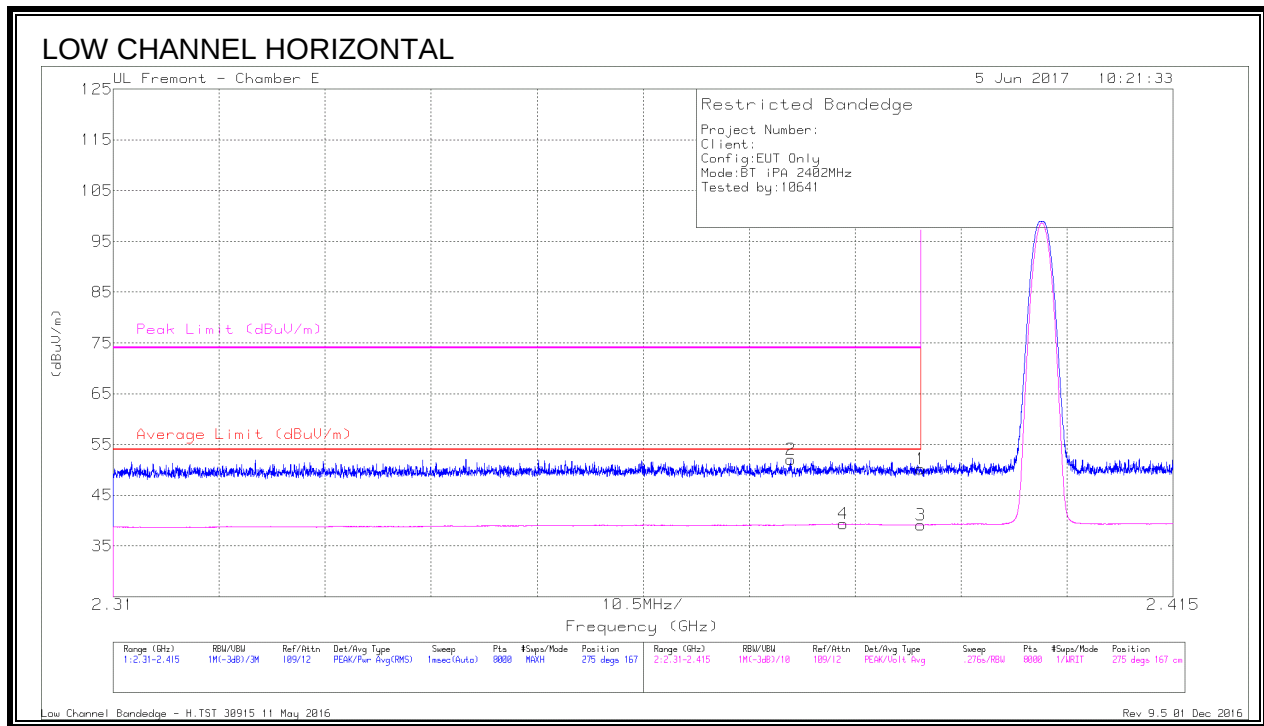
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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9.8. LAT3, P1ow BASIC DATA RATE GFSK MODULATION

9.8.1. RESTRICTED BANDEGE (LOW CHANNEL)

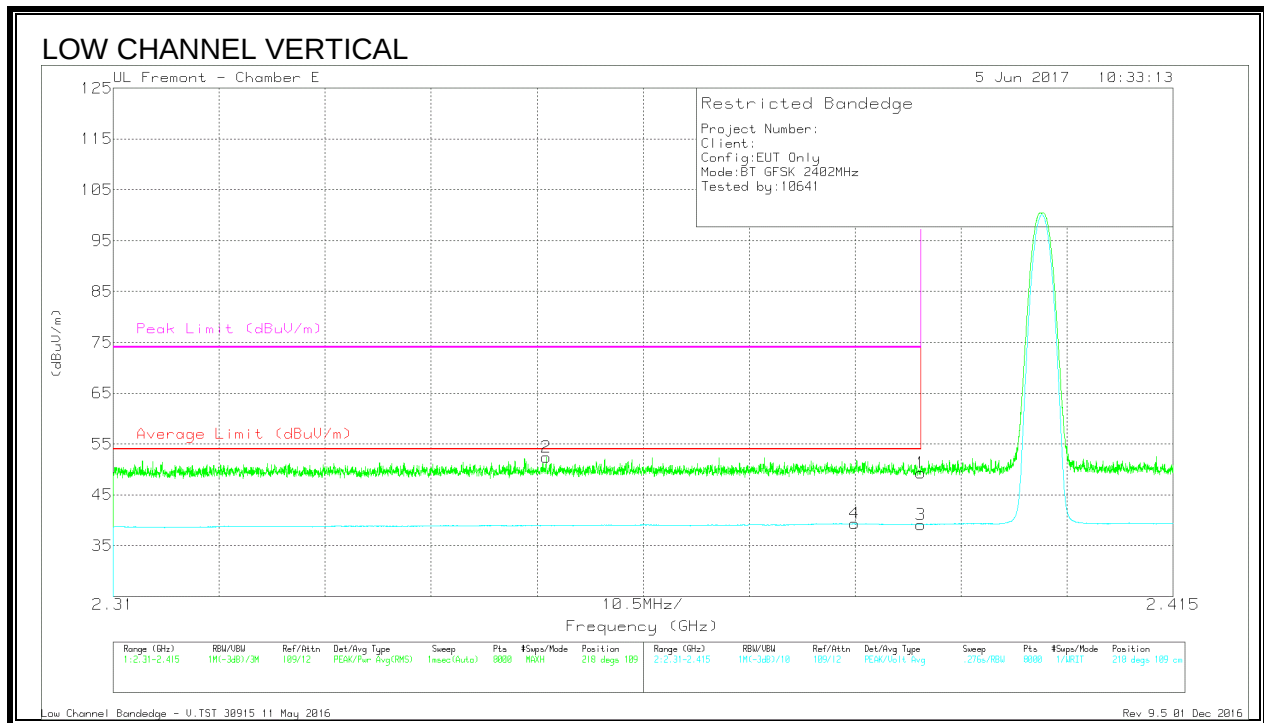


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.39	37.62	Pk	32.2	-19.7	50.12	-	-	74	-23.88	275	167	H
2	* 2.377	39.58	Pk	32.2	-19.7	52.08	-	-	74	-21.92	275	167	H
3	* 2.39	26.66	VA1T	32.2	-19.7	39.16	54	-14.84	-	-	275	167	H
4	* 2.382	26.63	VA1T	32.2	-19.5	39.33	54	-14.67	-	-	275	167	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



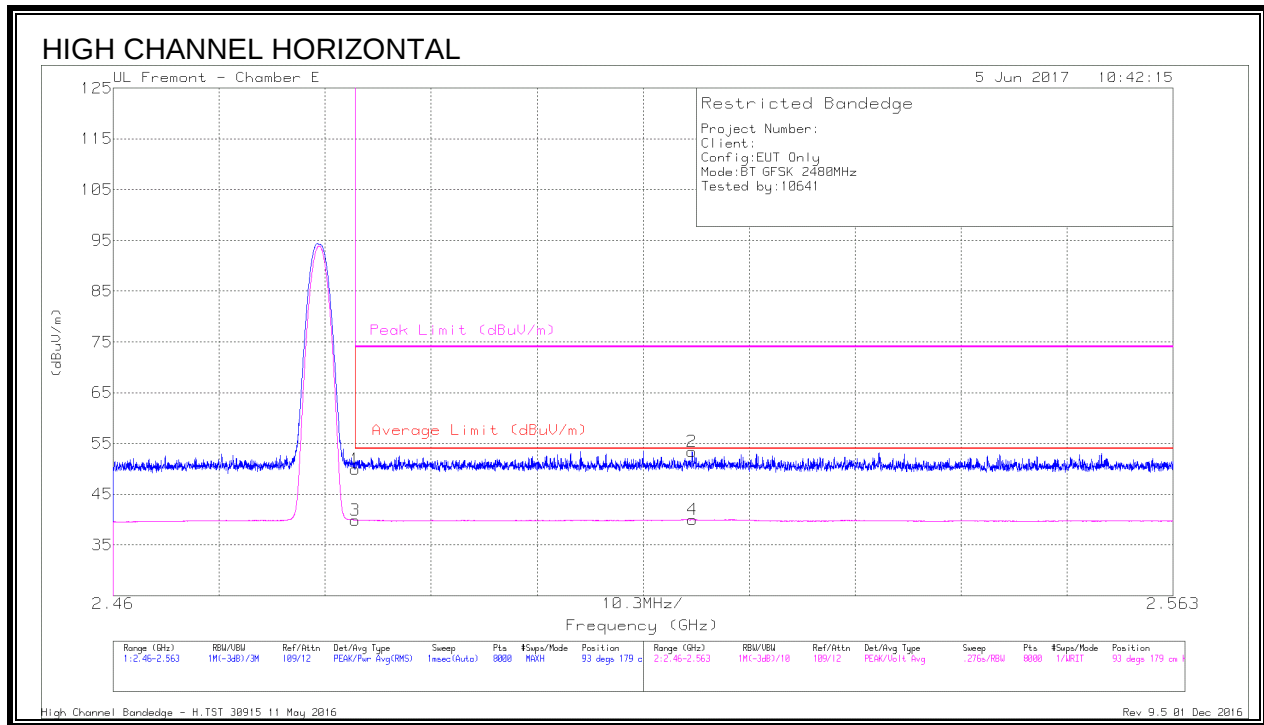
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	36.76	Pk	32.2	-19.7	49.26	-	-	74	-24.74	218	109	V
2	* 2.353	39.95	Pk	32.2	-19.7	52.45	-	-	74	-21.55	218	109	V
3	* 2.39	26.63	VA1T	32.2	-19.7	39.13	54	-14.87	-	-	218	109	V
4	* 2.383	26.64	VA1T	32.2	-19.5	39.34	54	-14.66	-	-	218	109	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

9.8.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)

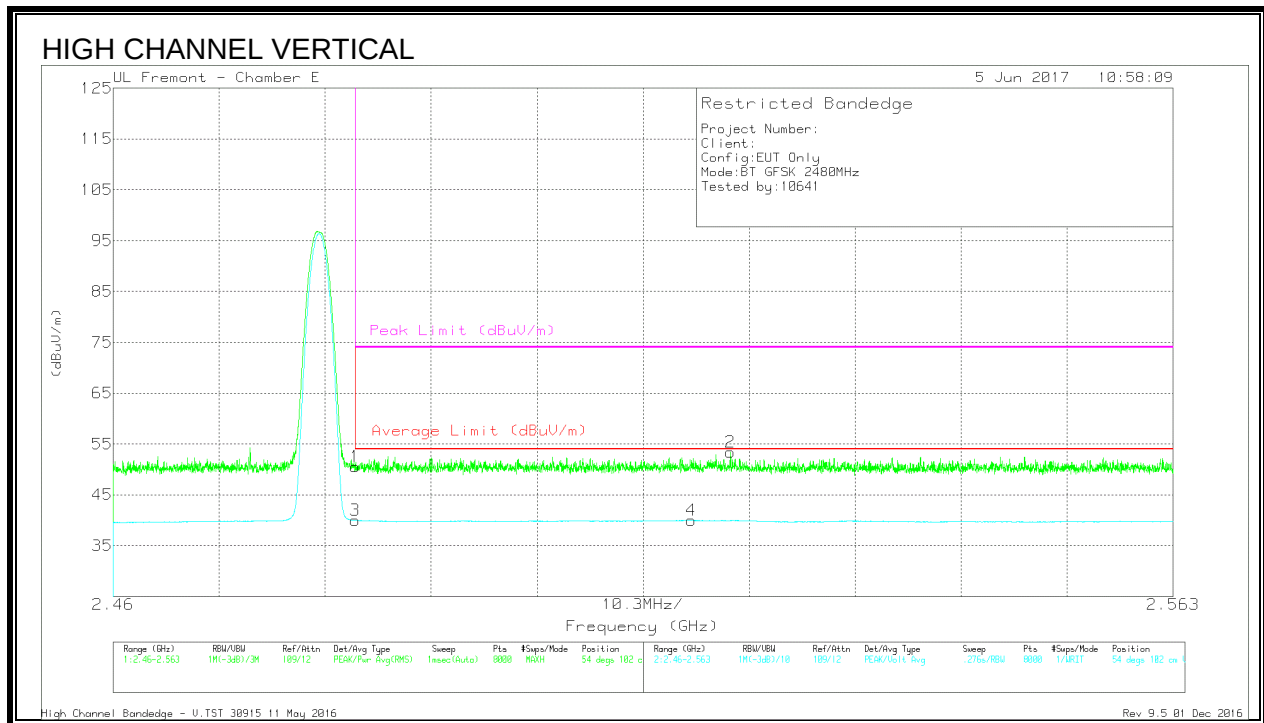


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	36.92	Pk	32.7	-19.7	49.92	-	-	74	-24.08	93	179	H
3	* 2.484	26.89	VA1T	32.7	-19.7	39.89	54	-14.11	-	-	93	179	H
2	2.516	40.43	Pk	32.7	-19.7	53.43	-	-	74	-20.57	93	179	H
4	2.516	26.98	VA1T	32.7	-19.7	39.98	54	-14.02	-	-	93	179	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



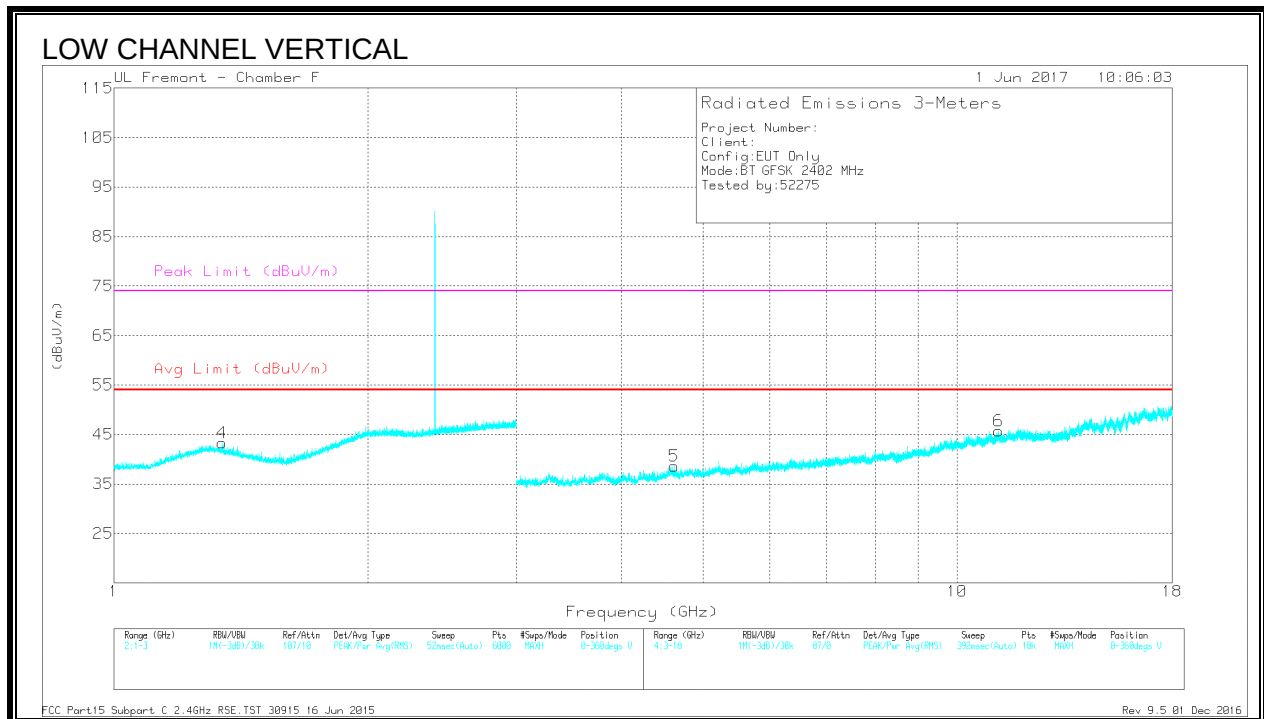
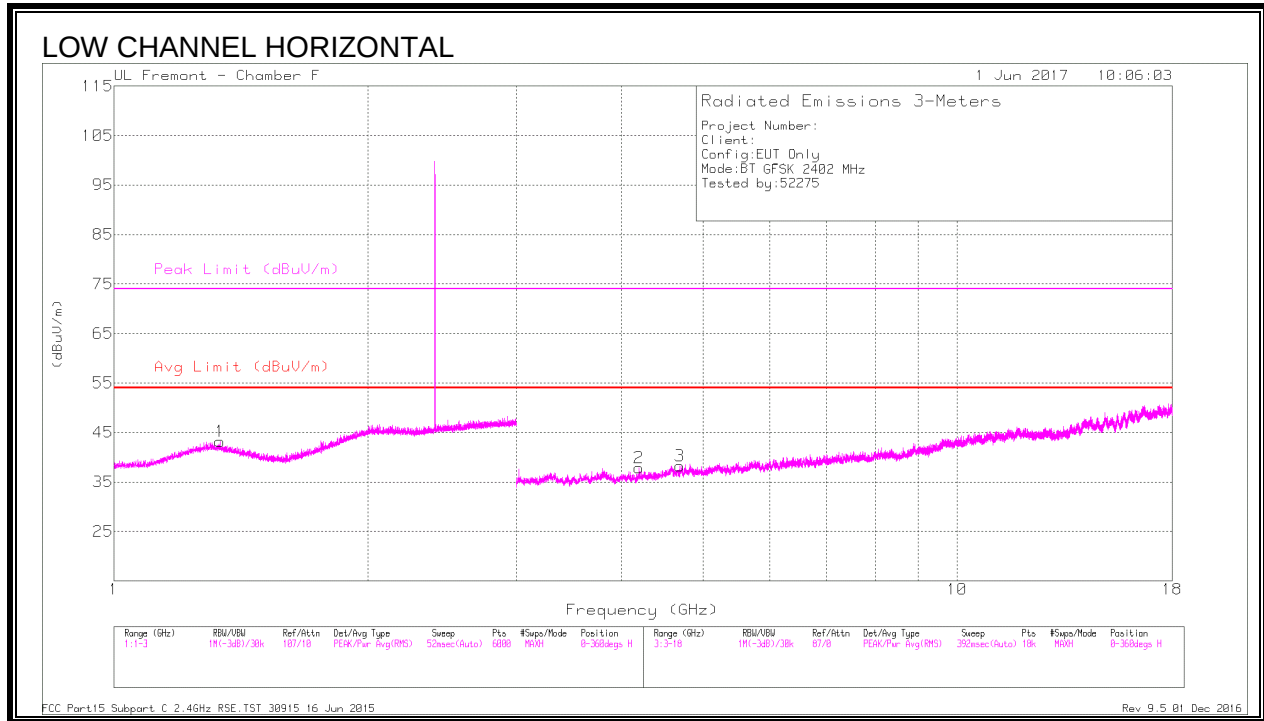
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	37.54	Pk	32.7	-19.7	50.54	-	-	74	-23.46	54	102	V
3	* 2.484	26.95	VA1T	32.7	-19.7	39.95	54	-14.05	-	-	54	102	V
4	2.516	27	VA1T	32.7	-19.7	40	54	-14	-	-	54	102	V
2	2.52	40.45	Pk	32.7	-19.7	53.45	-	-	74	-20.55	54	102	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

9.8.3. HARMONICS AND SPURIOUS EMISSIONS



Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (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
* 1.335	40.33	PKFH	29.7	-22.1	47.93	-	-	74	-26.07	23	231	H
* 1.334	28.79	VA1T	29.8	-22.1	36.49	54	-17.51	-	-	23	231	H
* 1.341	41.34	PKFH	29.7	-22.1	48.94	-	-	74	-25.06	189	318	V
* 1.344	28.77	VA1T	29.7	-22.1	36.37	54	-17.63	-	-	189	318	V
* 4.195	37.62	PKFH	33.5	-28	43.12	-	-	74	-30.88	201	171	H
* 4.196	25.78	VA1T	33.5	-28	31.28	54	-22.72	-	-	201	171	H
* 4.687	38.25	PKFH	34.1	-28.8	43.55	-	-	74	-30.45	148	276	H
* 4.687	26.63	VA1T	34.1	-28.8	31.93	54	-22.07	-	-	148	276	H
* 4.621	37.54	PKFH	34.1	-28.3	43.34	-	-	74	-30.66	157	239	V
* 4.621	26.24	VA1T	34.1	-28.3	32.04	54	-21.96	-	-	157	239	V
* 11.207	34.12	PKFH	38.1	-21.2	51.02	-	-	74	-22.98	283	350	V
* 11.206	22.55	VA1T	38.1	-21.2	39.45	54	-14.55	-	-	283	350	V

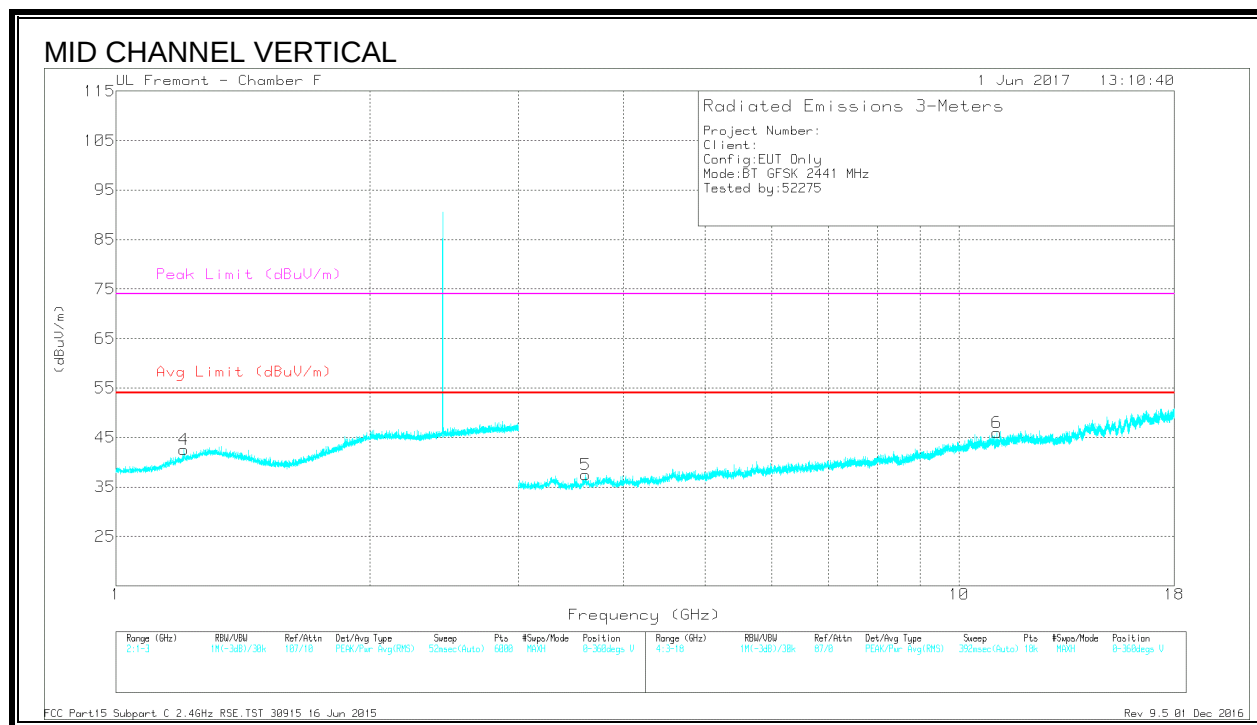
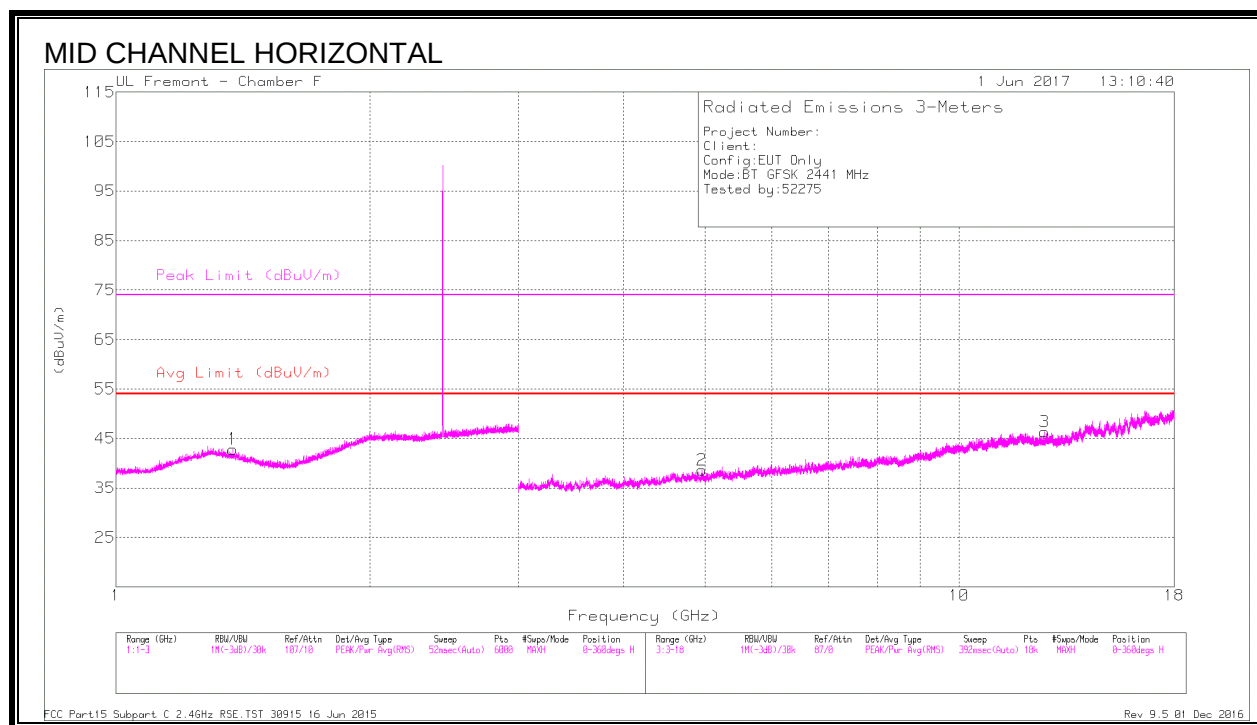
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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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Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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
* 1.374	40.55	PKFH	29.3	-22.1	47.75	-	-	74	-26.25	333	265	H
* 1.377	28.76	VA1T	29.3	-22.1	35.96	54	-18.04	-	-	333	265	H
* 1.203	40.94	PKFH	28.9	-22.5	47.34	-	-	74	-26.66	189	354	V
* 1.204	28.99	VA1T	28.9	-22.5	35.39	54	-18.61	-	-	189	354	V
* 4.961	37.98	PKFH	34.2	-28.5	43.68	-	-	74	-30.32	276	228	H
* 4.958	26.4	VA1T	34.2	-28.5	32.1	54	-21.9	-	-	276	228	H
* 12.627	35.93	PKFH	38.9	-22.9	51.93	-	-	74	-22.07	0	350	H
* 12.629	23.37	VA1T	38.9	-22.9	39.37	54	-14.63	-	-	0	350	H
* 3.609	39.41	PKFH	33.1	-29.2	43.31	-	-	74	-30.69	211	162	V
* 3.607	26.7	VA1T	33.1	-29.2	30.6	54	-23.4	-	-	211	162	V
* 11.093	34.57	PKFH	38.1	-21.8	50.87	-	-	74	-23.13	171	266	V
* 11.093	22.59	VA1T	38.1	-21.8	38.89	54	-15.11	-	-	171	266	V

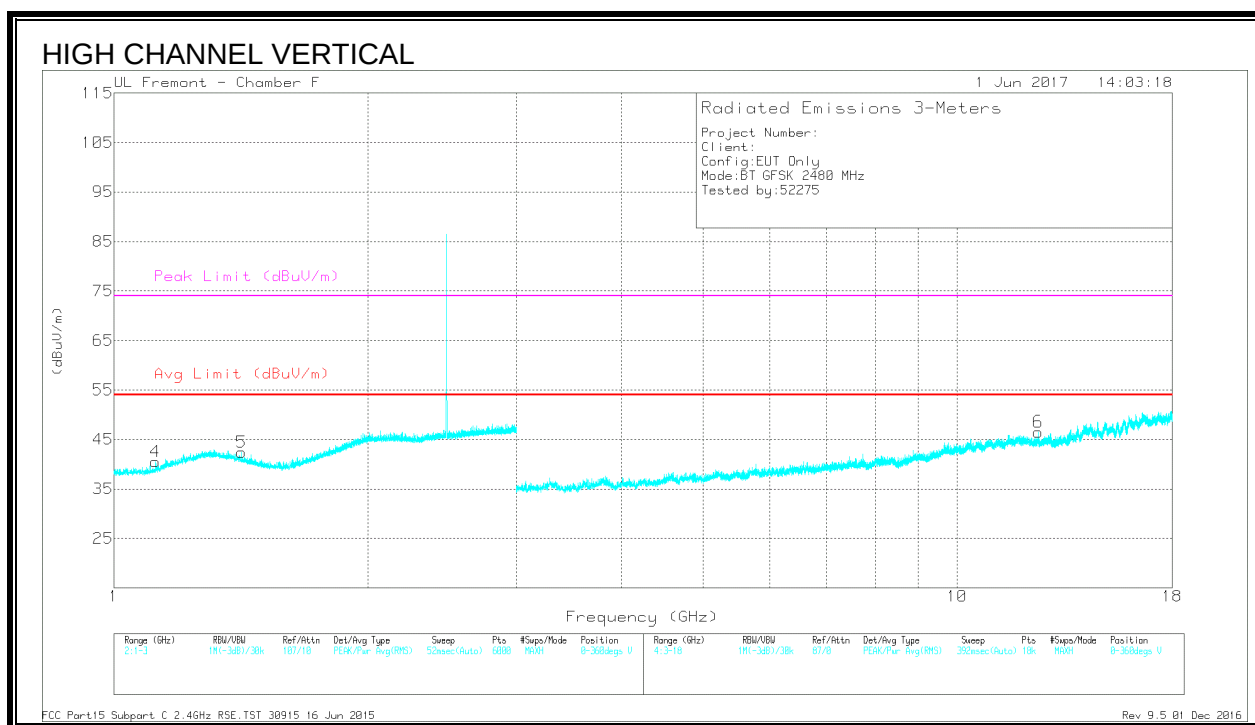
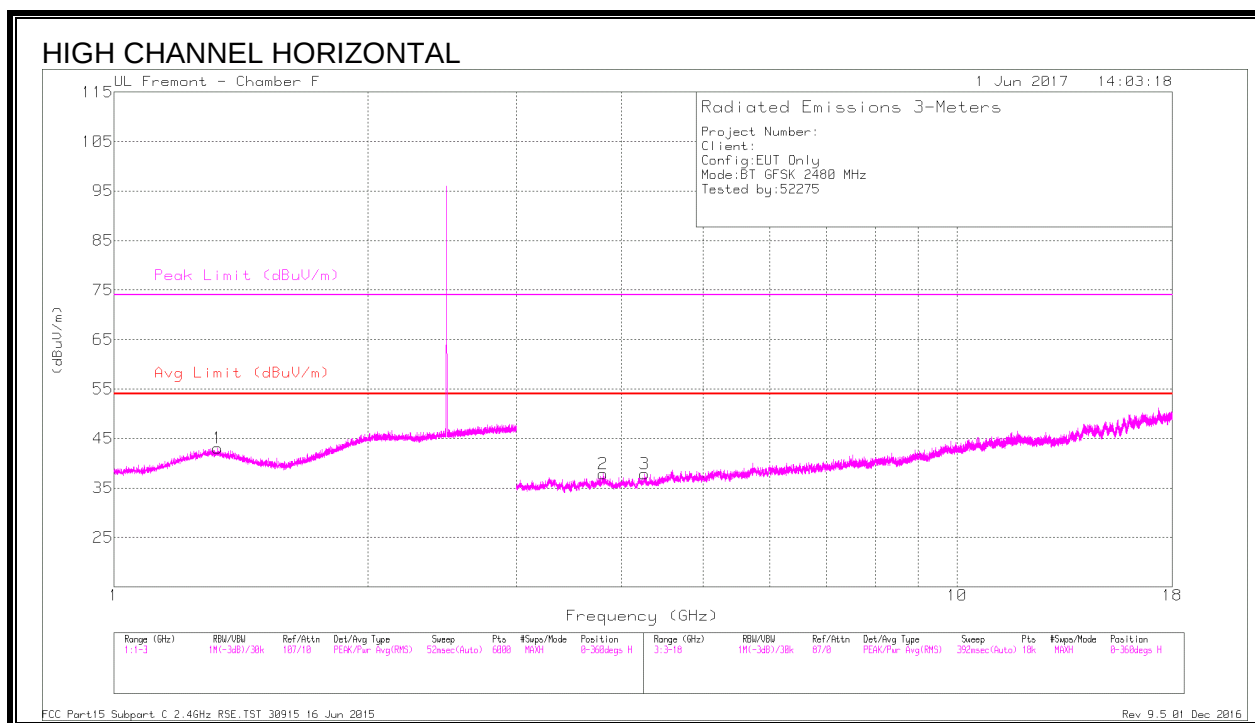
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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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Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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
* 1.327	40.96	PKFH	29.8	-22.2	48.56	-	-	74	-25.44	340	268	H
* 1.326	28.84	VA1T	29.8	-22.2	36.44	54	-17.56	-	-	340	268	H
* 1.119	40.49	PKFH	27.2	-22.7	44.99	-	-	74	-29.01	18	195	V
* 1.119	29.09	VA1T	27.2	-22.7	33.59	54	-20.41	-	-	18	195	V
* 1.414	40.57	PKFH	28.9	-22.1	47.37	-	-	74	-26.63	239	346	V
* 1.415	28.73	VA1T	28.9	-22.1	35.53	54	-18.47	-	-	239	346	V
* 3.806	38.72	PKFH	33.3	-28.4	43.62	-	-	74	-30.38	342	232	H
* 3.806	26.5	VA1T	33.3	-28.4	31.4	54	-22.6	-	-	342	232	H
* 4.263	38.04	PKFH	33.6	-28.5	43.14	-	-	74	-30.86	334	276	H
* 4.263	26.23	VA1T	33.6	-28.5	31.33	54	-22.67	-	-	334	276	H
* 12.477	34.43	PKFH	38.8	-22.1	51.13	-	-	74	-22.87	223	183	V
* 12.478	22.86	VA1T	38.8	-22.1	39.56	54	-14.44	-	-	223	183	V

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

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

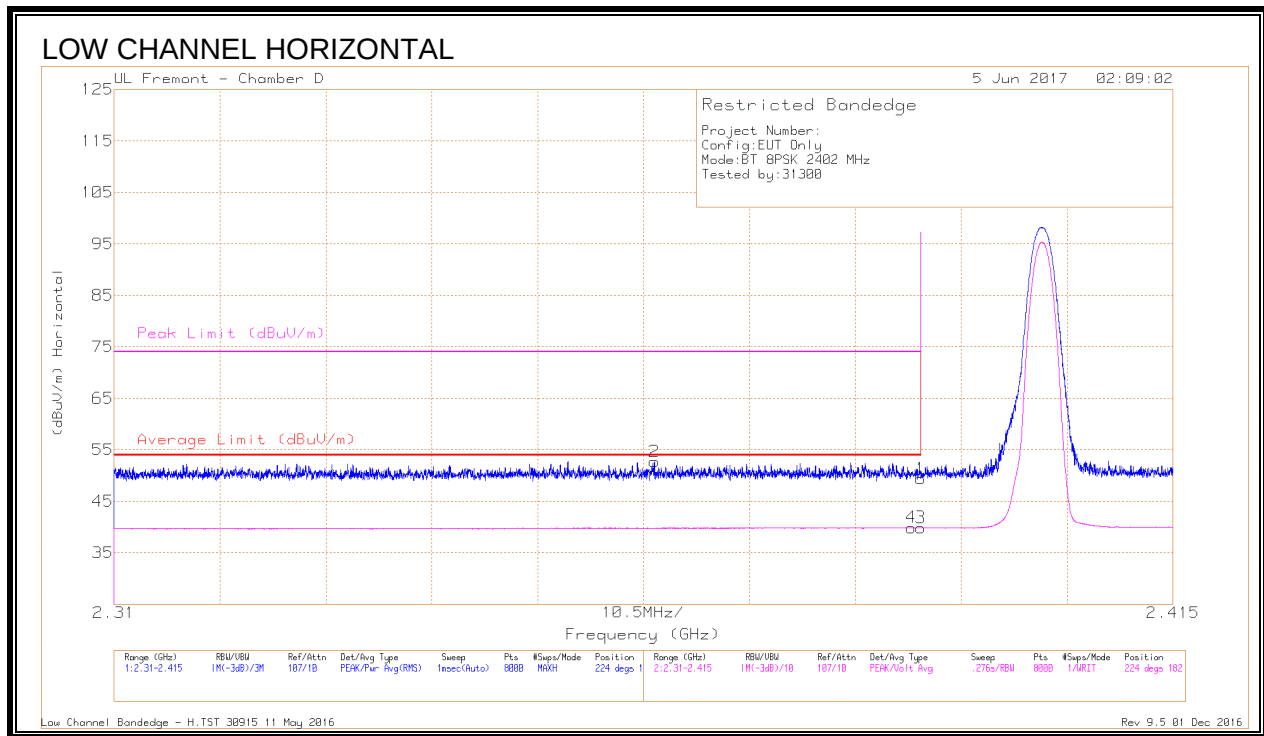
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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9.9. LAT3, P1ow ENHANCED DATA RATE 8PSK MODULATION

9.9.1. RESTRICTED BANDEDGE (LOW CHANNEL)

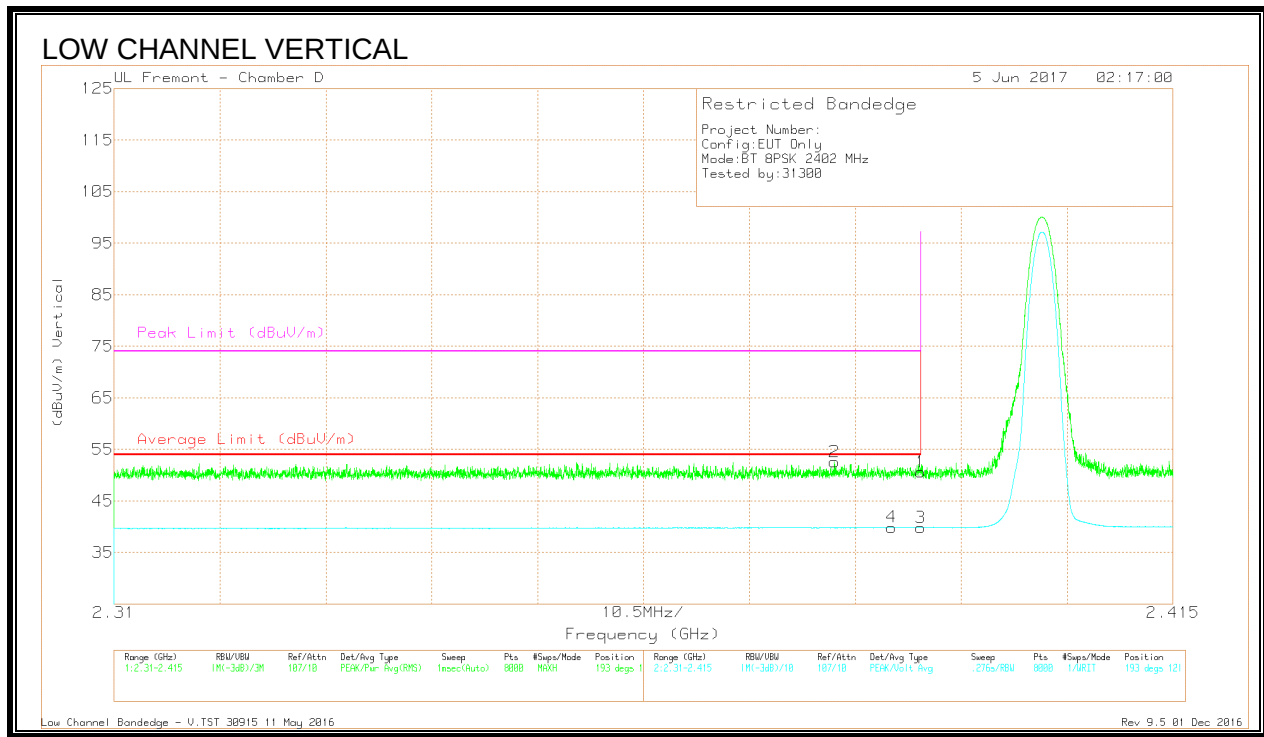


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Reading (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.364	41.42	Pk	32.1	-20.8	52.72	-	-	74	-21.28	224	182	H
4	* 2.389	28.59	VA1T	32.1	-20.8	39.89	54	-14.11	-	-	224	182	H
1	* 2.39	37.99	Pk	32.1	-20.7	49.39	-	-	74	-24.61	224	182	H
3	* 2.39	28.47	VA1T	32.1	-20.7	39.87	54	-14.13	-	-	224	182	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



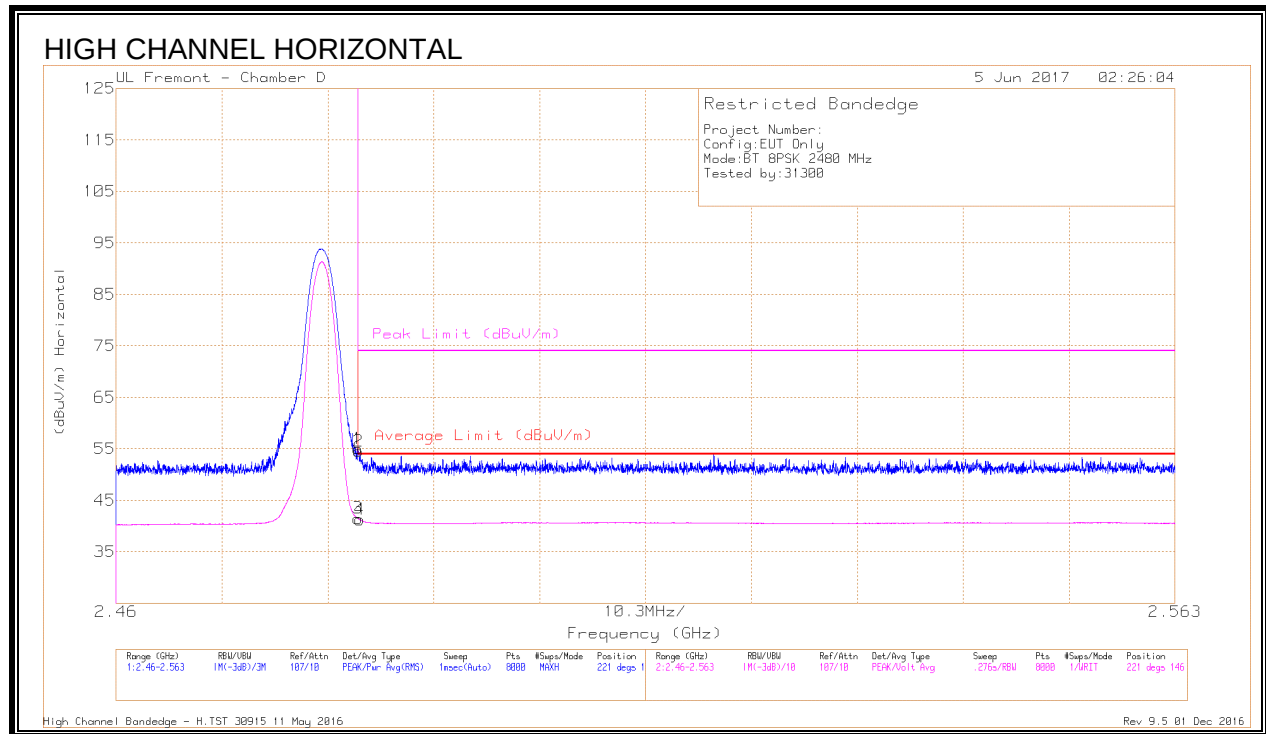
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.381	41.28	Pk	32.1	-20.8	52.58	-	-	74	-21.42	193	121	V
4	* 2.387	28.59	VA1T	32.1	-20.8	39.89	54	-14.11	-	-	193	121	V
1	* 2.39	39.19	Pk	32.1	-20.7	50.59	-	-	74	-23.41	193	121	V
3	* 2.39	28.42	VA1T	32.1	-20.7	39.82	54	-14.18	-	-	193	121	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

9.9.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)

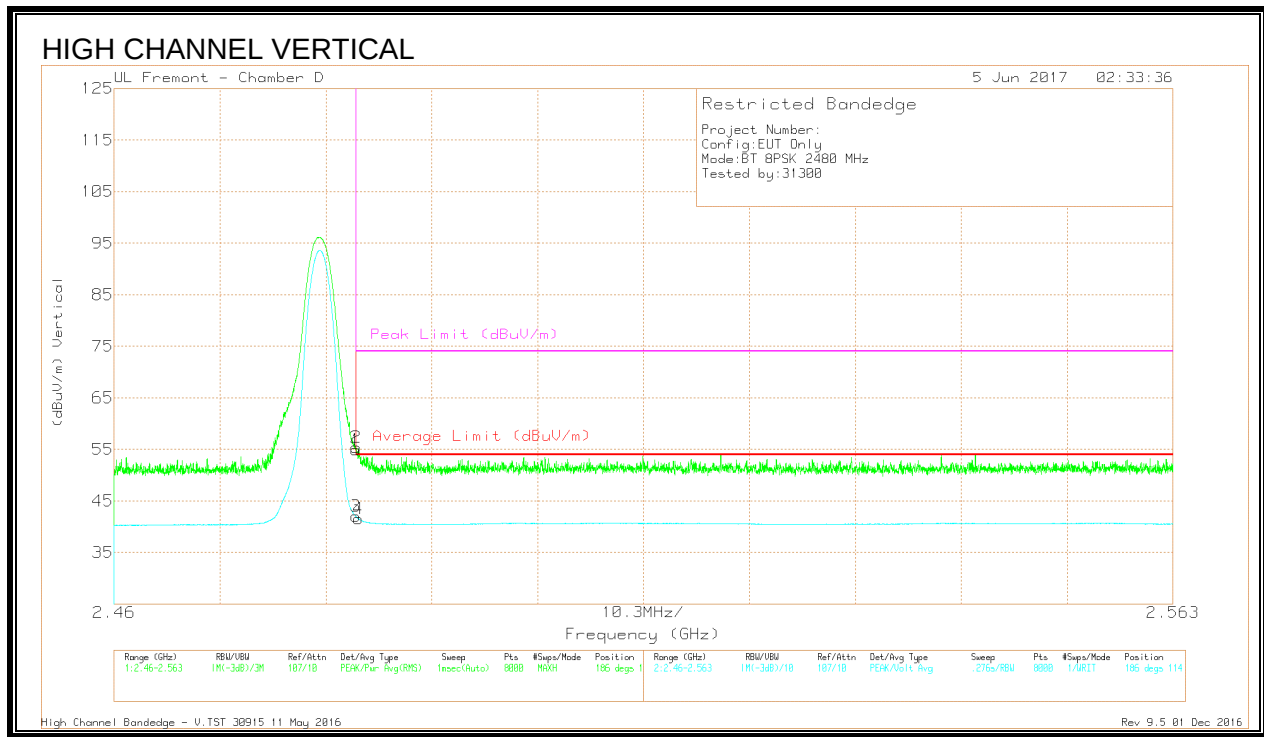


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.35	Pk	32.5	-20.8	55.05	-	-	74	-18.95	221	146	H
2	* 2.484	42.81	Pk	32.5	-20.8	54.51	-	-	74	-19.49	221	146	H
3	* 2.484	29.79	VA1T	32.5	-20.8	41.49	54	-12.51	-	-	221	146	H
4	* 2.484	29.56	VA1T	32.5	-20.8	41.26	54	-12.74	-	-	221	146	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



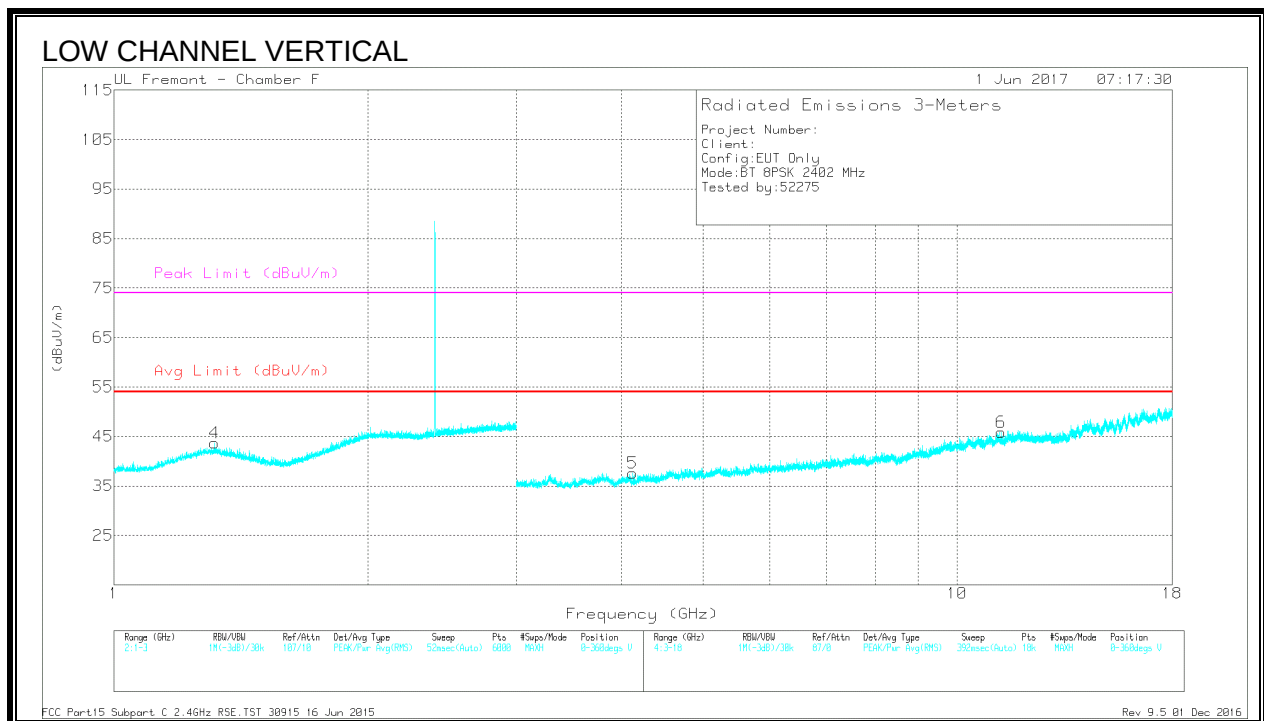
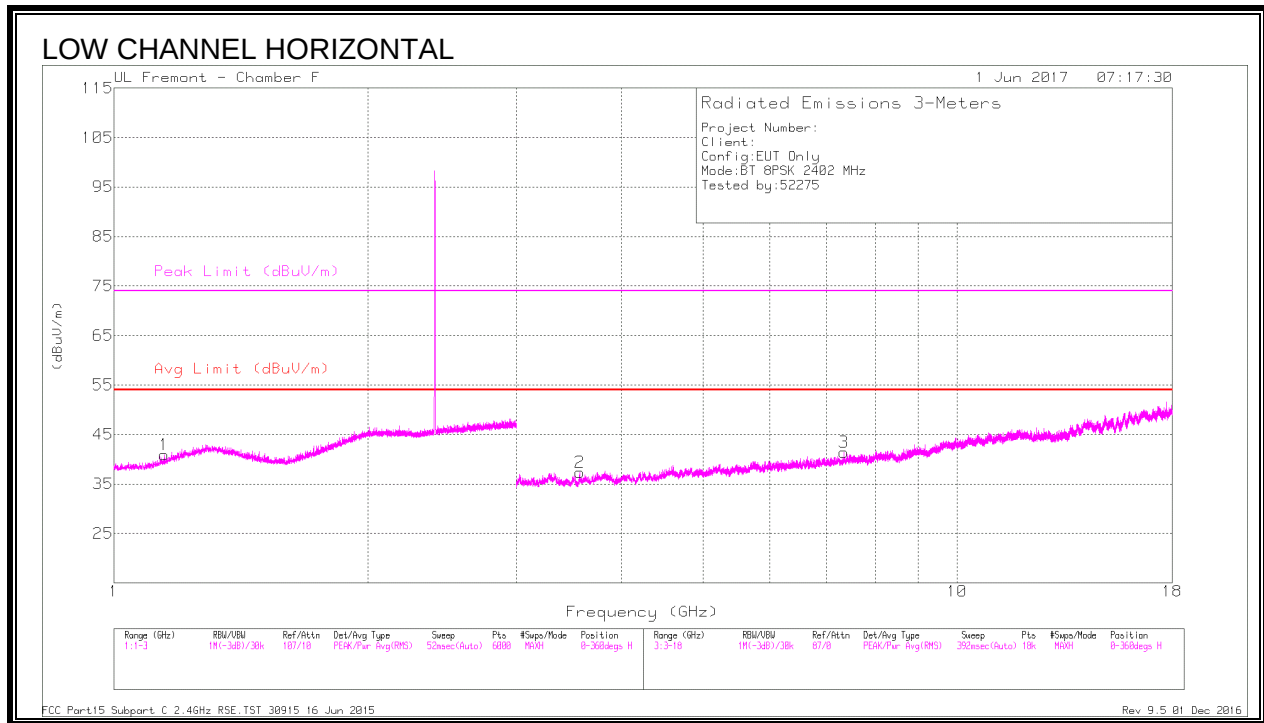
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.23	Pk	32.5	-20.8	54.93	-	-	74	-19.07	186	114	V
2	* 2.484	43.7	Pk	32.5	-20.8	55.4	-	-	74	-18.6	186	114	V
3	* 2.484	30.33	VA1T	32.5	-20.8	42.03	54	-11.97	-	-	186	114	V
4	* 2.484	29.84	VA1T	32.5	-20.8	41.54	54	-12.46	-	-	186	114	V

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

Pk - Peak detector

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

9.9.3. HARMONICS AND SPURIOUS EMISSIONS



Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (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
* 1.145	41.57	PKFH	27.7	-22.6	46.67	-	-	74	-27.33	285	188	H
* 1.148	29.01	VA1T	27.8	-22.6	34.21	54	-19.79	-	-	285	188	H
* 1.315	40.26	PKFH	30	-22.2	48.06	-	-	74	-25.94	43	151	V
* 1.314	28.79	VA1T	30	-22.2	36.59	54	-17.41	-	-	43	151	V
* 3.566	39.03	PKFH	33.1	-28.8	43.33	-	-	74	-30.67	238	200	H
* 3.569	26.58	VA1T	33.1	-28.9	30.78	54	-23.22	-	-	238	200	H
* 7.345	36.6	PKFH	35.9	-25.7	46.8	-	-	74	-27.2	186	179	H
* 7.347	24.46	VA1T	35.9	-25.6	34.76	54	-19.24	-	-	186	179	H
* 4.124	38.61	PKFH	33.4	-28.9	43.11	-	-	74	-30.89	254	141	V
* 4.124	26.41	VA1T	33.4	-28.9	30.91	54	-23.09	-	-	254	141	V

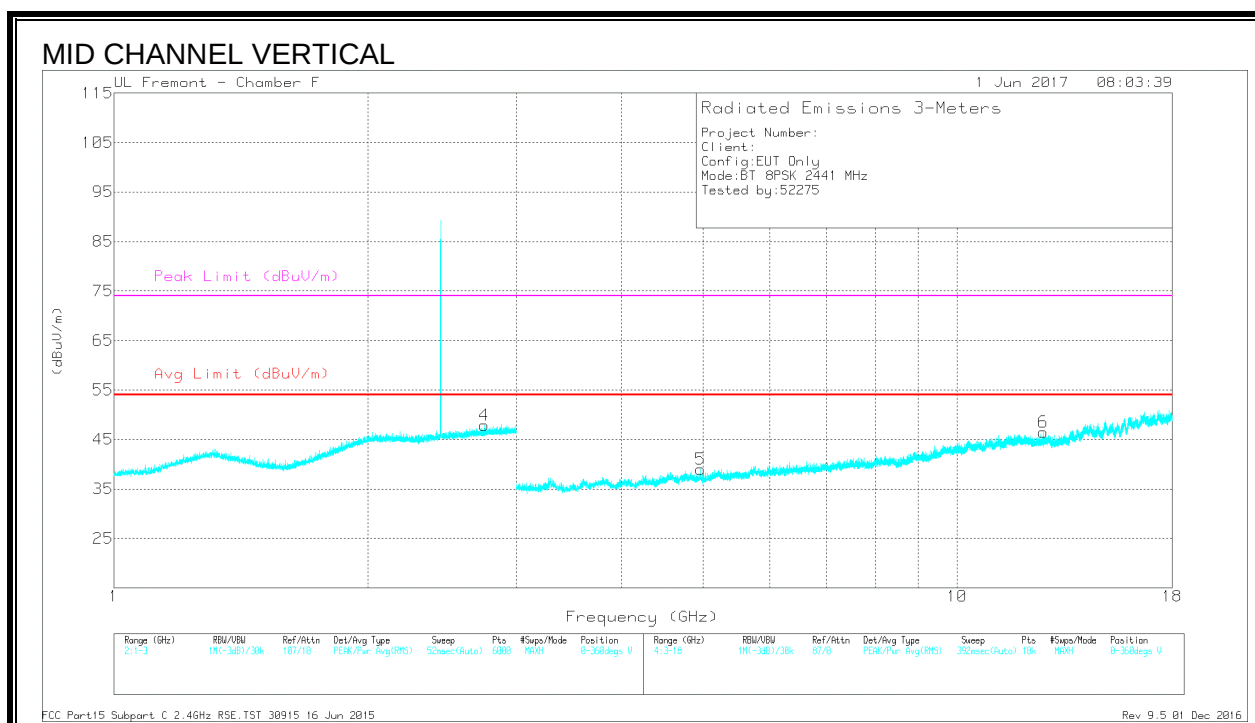
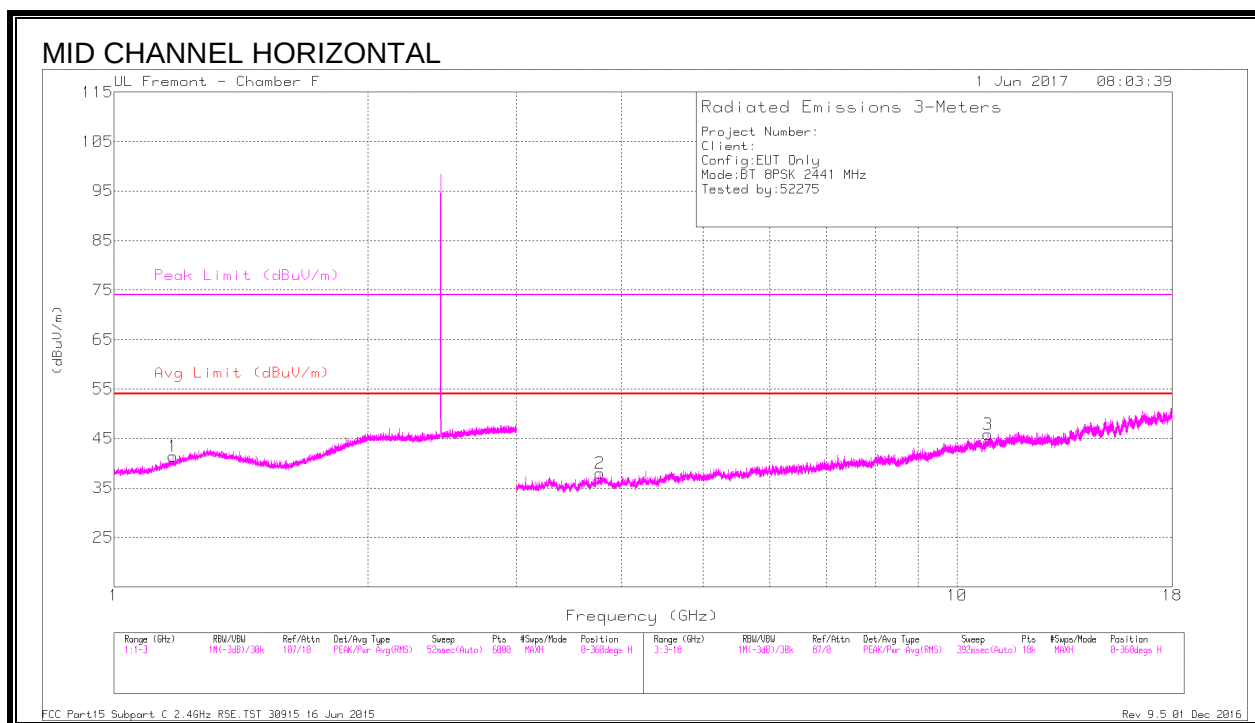
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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
* 1.174	40.77	PKFH	28.3	-22.6	46.47	-	-	74	-27.53	324	280	H
* 1.175	28.99	VA1T	28.3	-22.6	34.69	54	-19.31	-	-	324	280	H
* 2.75	40.67	PKFH	32.6	-20.6	52.67	-	-	74	-21.33	239	303	V
* 2.75	28.7	VA1T	32.6	-20.6	40.7	54	-13.3	-	-	239	303	V
* 3.774	38.44	PKFH	33.3	-29	42.74	-	-	74	-31.26	349	386	H
* 3.774	26.55	VA1T	33.3	-29	30.85	54	-23.15	-	-	349	386	H
* 10.883	35.14	PKFH	37.8	-21.5	51.44	-	-	74	-22.56	290	100	H
* 10.885	22.59	VA1T	37.8	-21.5	38.89	54	-15.11	-	-	290	100	H
* 4.967	38.4	PKFH	34.2	-28.6	44	-	-	74	-30	189	368	V
* 4.966	26.3	VA1T	34.2	-28.5	32	54	-22	-	-	189	368	V
* 12.659	34.86	PKFH	38.9	-22.9	50.86	-	-	74	-23.14	67	101	V
* 12.661	23.41	VA1T	38.9	-22.9	39.41	54	-14.59	-	-	67	101	V

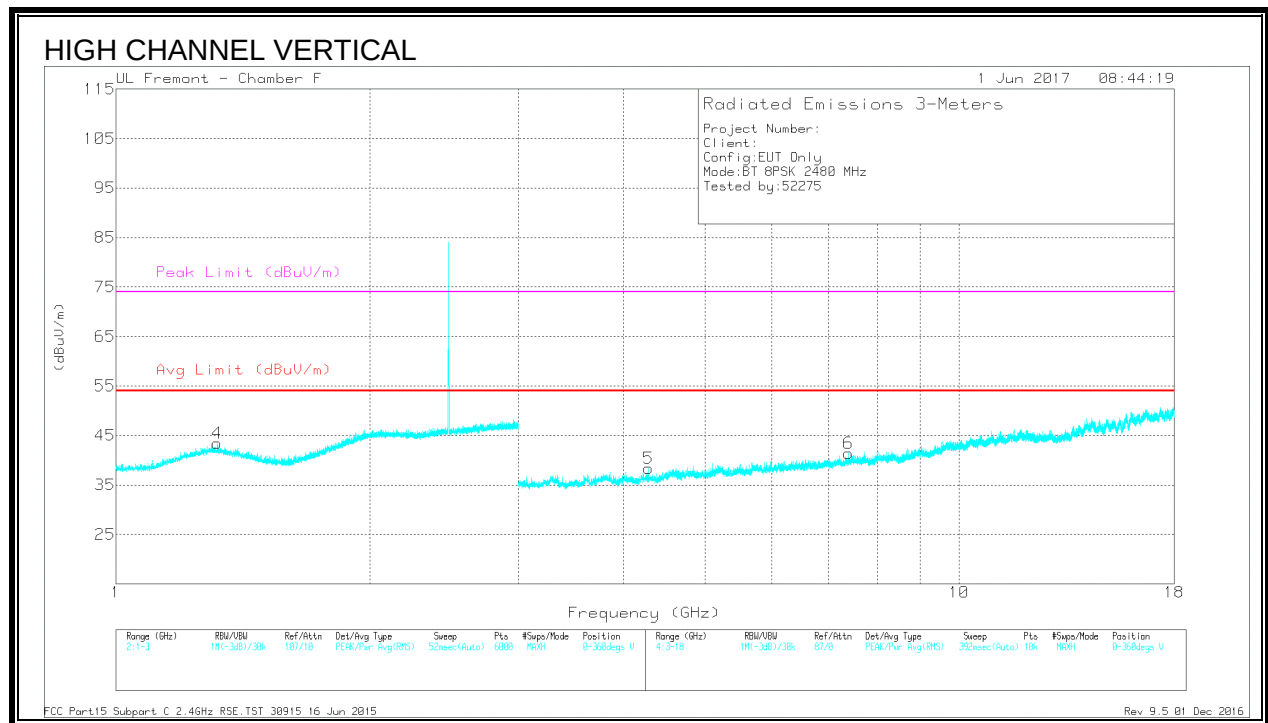
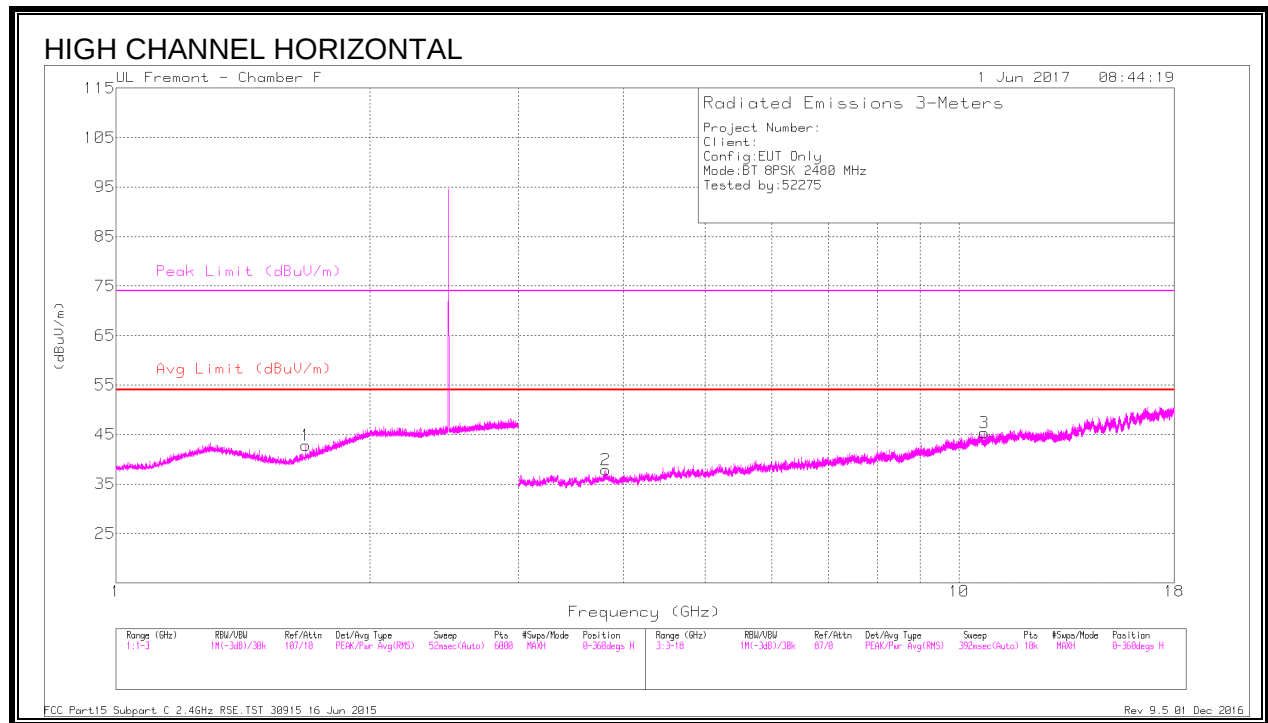
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 01 Dec 2016



Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (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
* 1.681	40.16	PKFH	28.2	-21.8	46.56	-	-	74	-27.44	241	236	H
* 1.681	28.67	VA1T	28.2	-21.8	35.07	54	-18.93	-	-	241	236	H
* 1.319	40.33	PKFH	29.9	-22.2	48.03	-	-	74	-25.97	134	388	V
* 1.321	28.81	VA1T	29.9	-22.2	36.51	54	-17.49	-	-	134	388	V
* 3.815	37.99	PKFH	33.3	-28.3	42.99	-	-	74	-31.01	168	253	H
* 3.815	26.52	VA1T	33.3	-28.3	31.52	54	-22.48	-	-	168	253	H
* 10.712	33.83	PKFH	37.6	-21.7	49.73	-	-	74	-24.27	9	302	H
* 10.713	22.15	VA1T	37.6	-21.7	38.05	54	-15.95	-	-	9	302	H
* 4.282	38.11	PKFH	33.7	-28.7	43.11	-	-	74	-30.89	346	290	V
* 4.283	26.03	VA1T	33.7	-28.7	31.03	54	-22.97	-	-	346	290	V
* 7.39	35.59	PKFH	36	-25.5	46.09	-	-	74	-27.91	218	240	V
* 7.389	24.05	VA1T	36	-25.5	34.55	54	-19.45	-	-	218	240	V

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

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

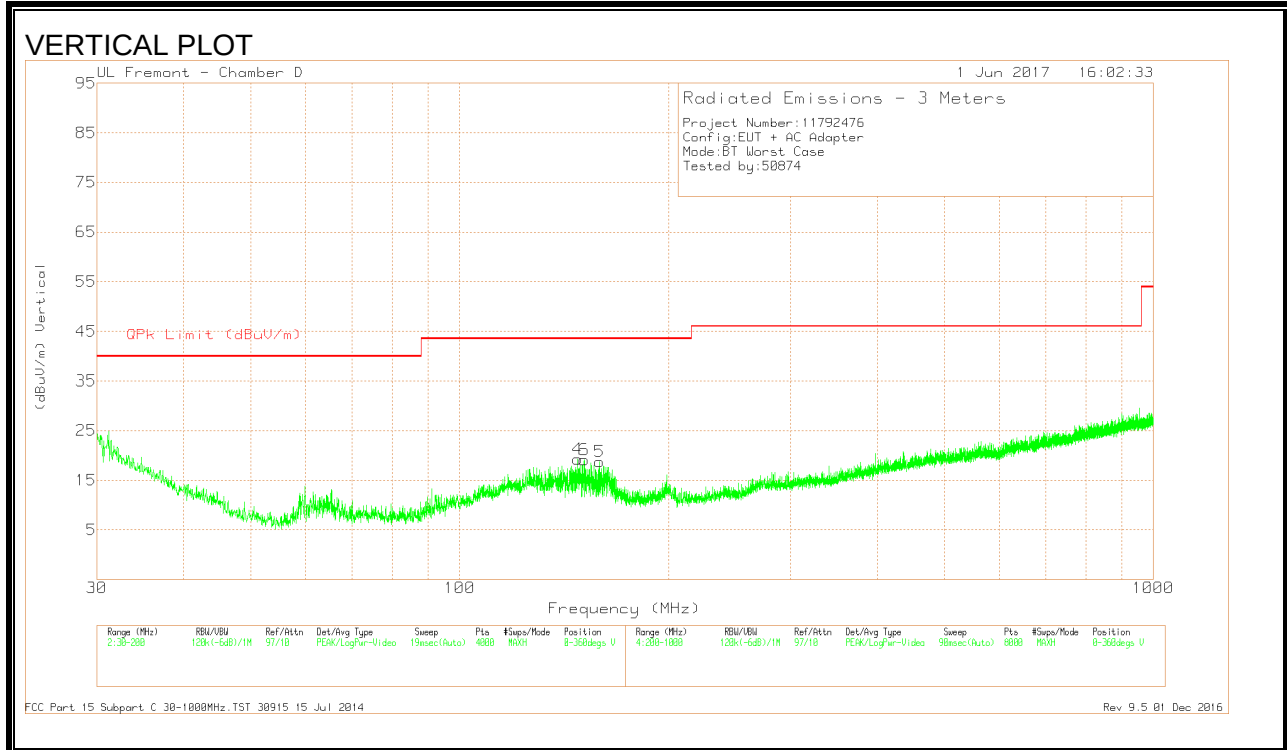
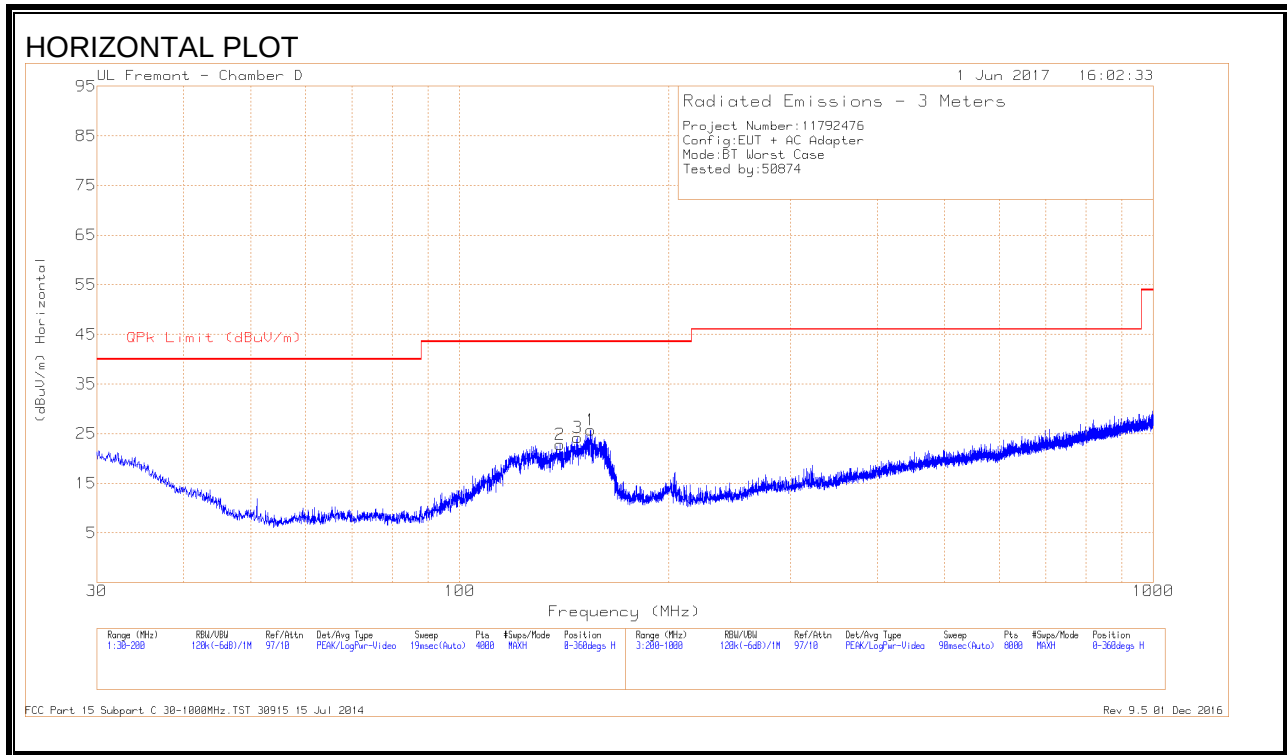
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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

Rev 9.5 01 Dec 2016

9.10. WORST-CASE BELOW 1 GHz

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



DATA

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
2	139.6359	36.86	Pk	17.1	-31.1	22.86	43.52	-20.66	0-360	199	H
3	147.8405	38.77	Pk	16.5	-31.1	24.17	43.52	-19.35	0-360	199	H
4	147.8405	33.88	Pk	16.5	-31.1	19.28	43.52	-24.24	0-360	100	V
6	151.1989	33.69	Pk	16.4	-31	19.09	43.52	-24.43	0-360	100	V
1	154.4084	40.4	Pk	16.3	-31	25.7	43.52	-17.82	0-360	199	H
5	159.276	33.49	Pk	16.2	-31	18.69	43.52	-24.83	0-360	100	V

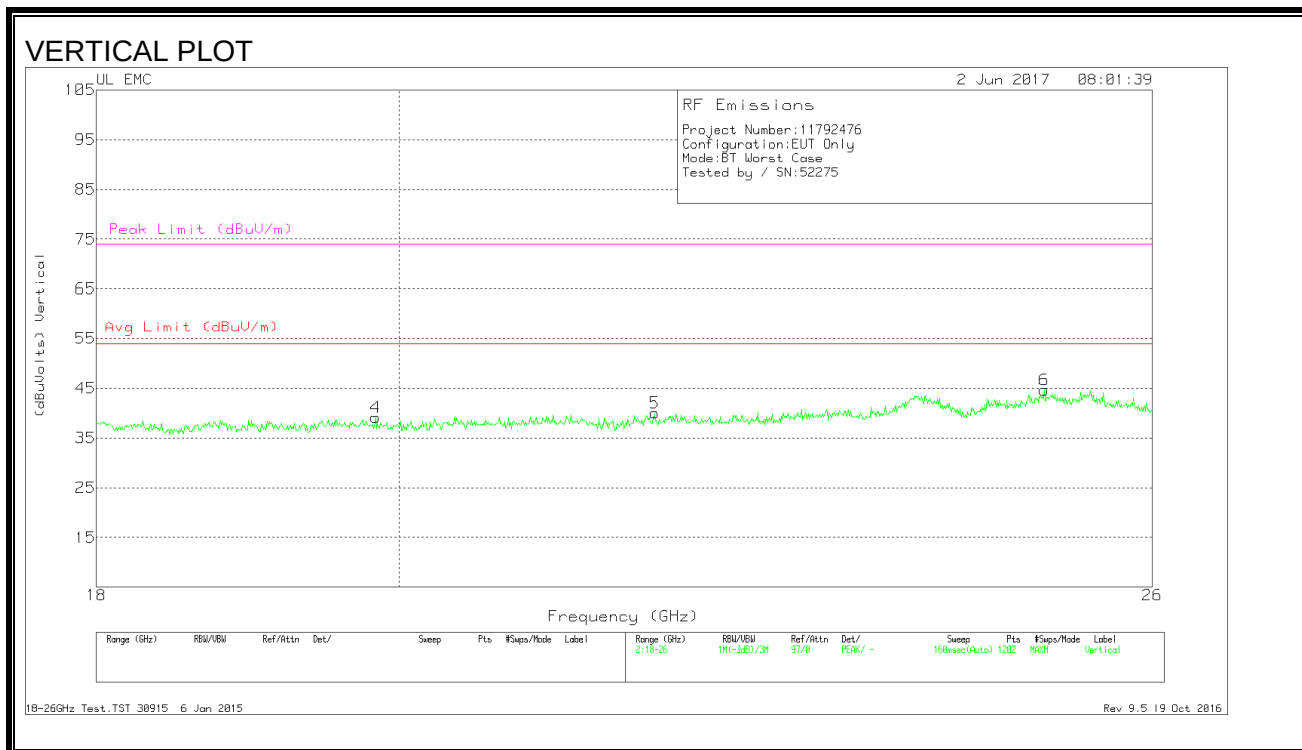
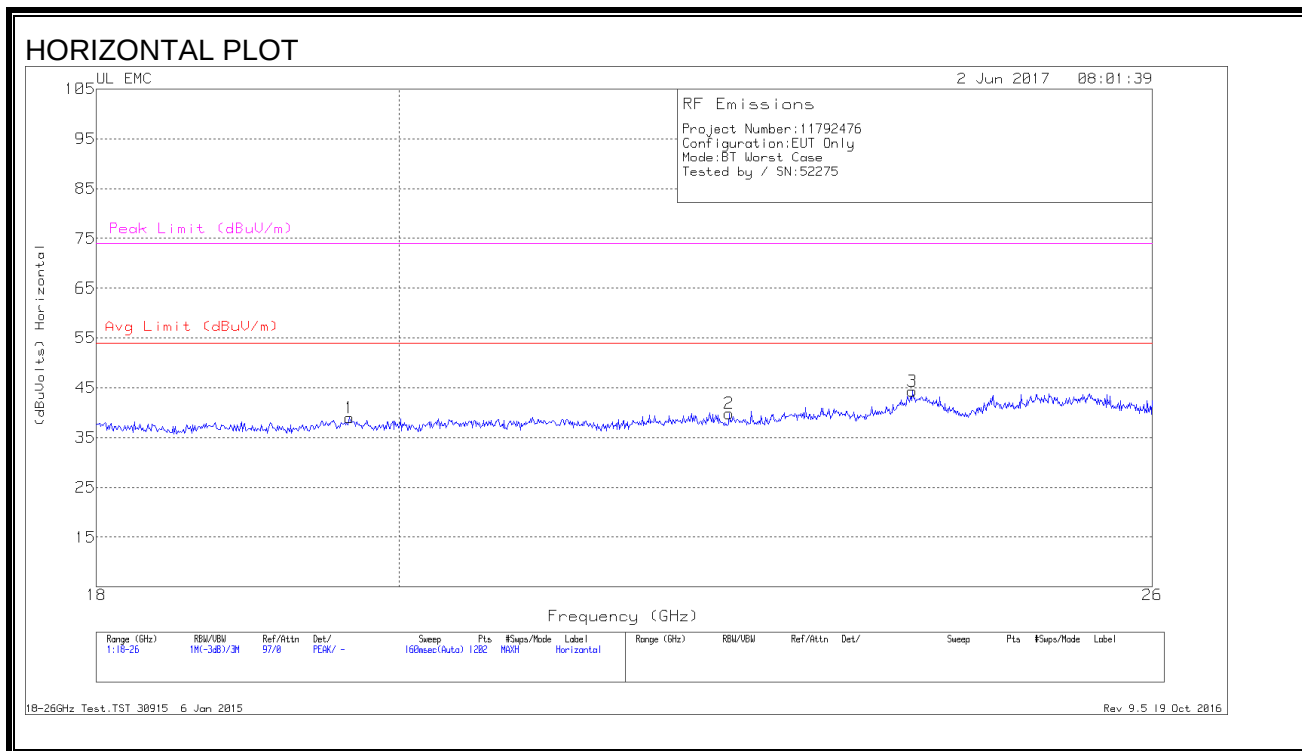
Pk - Peak detector

FCC Part 15 Subpart C 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)



Data

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T447 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	19.659	40.6	Pk	32.8	-24.9	-9.5	39	54	-15	74	-35
2	22.436	40.53	Pk	33.5	-24.7	-9.5	39.83	54	-14.17	74	-34.17
3	23.915	43.63	Pk	34.1	-23.9	-9.5	44.33	54	-9.67	74	-29.67
4	19.838	40.87	Pk	32.8	-25	-9.5	39.17	54	-14.83	74	-34.83
5	21.863	40.9	Pk	33.2	-24.6	-9.5	40	54	-14	74	-34
6	25.041	44.47	Pk	34.4	-24.7	-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 (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.

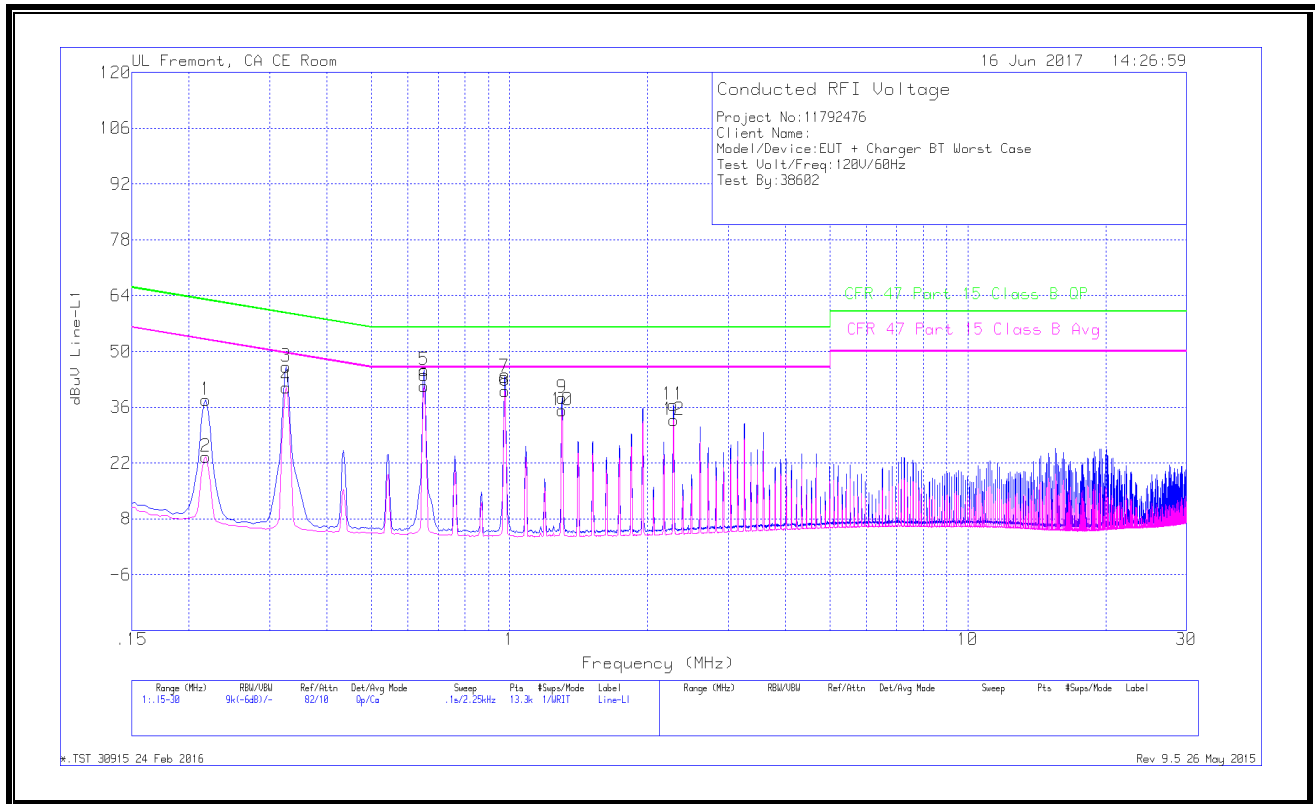
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

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

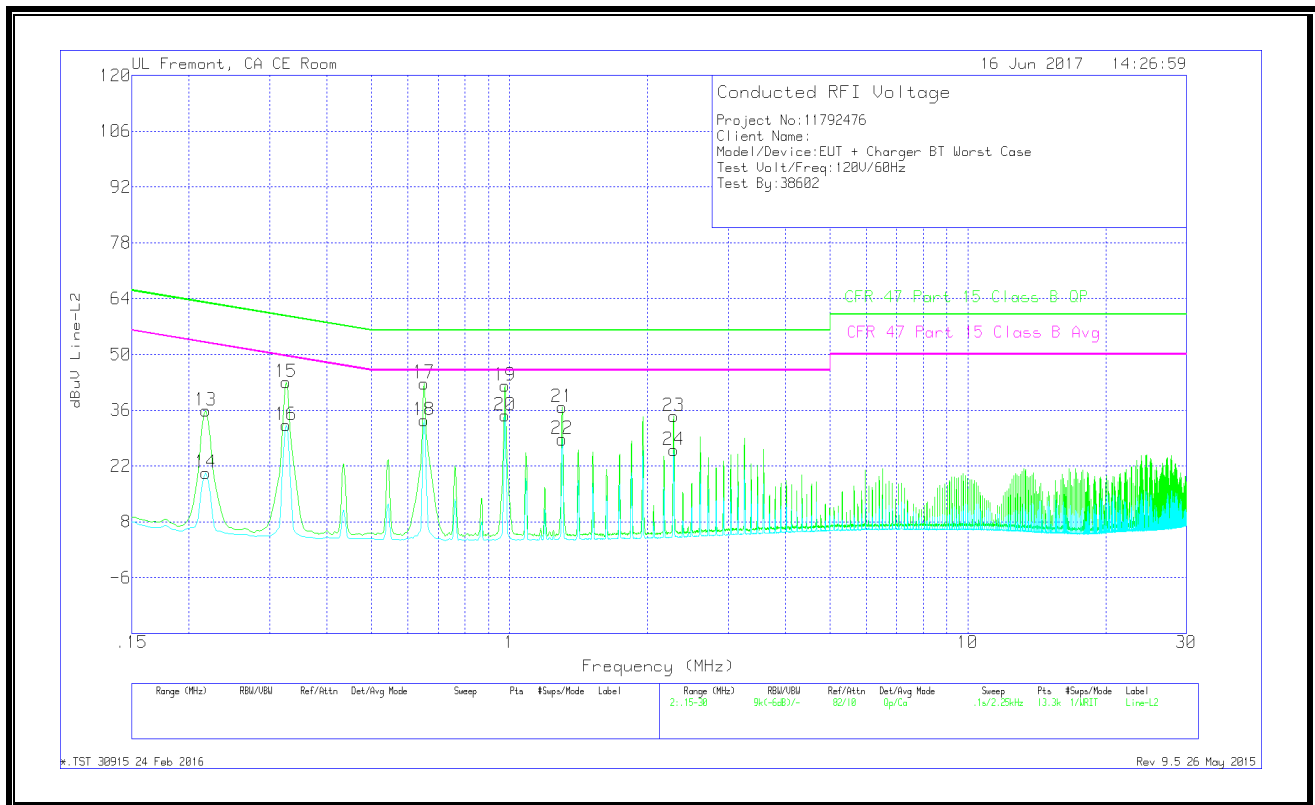
LINE 1 RESULTS



WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL 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	.2175	26.89	Qp	.8	0	10.1	37.79	62.91	-25.12	-	-
2	.2175	12.74	Ca	.8	0	10.1	23.64	-	-	52.91	-29.27
3	.3255	35.46	Qp	.5	.1	10.1	46.16	59.57	-13.41	-	-
4	.3255	30.28	Ca	.5	.1	10.1	40.98	-	-	49.57	-8.59
5	.65175	34.8	Qp	.3	.1	10.1	45.3	56	-10.7	-	-
6	.65175	30.88	Ca	.3	.1	10.1	41.38	-	-	46	-4.62
7	.97575	33.14	Qp	.2	.1	10.1	43.54	56	-12.46	-	-
8	.978	29.64	Ca	.2	.1	10.1	40.04	-	-	46	-5.96
9	1.302	27.99	Qp	.2	.1	10.1	38.39	56	-17.61	-	-
10	1.302	24.82	Ca	.2	.1	10.1	35.22	-	-	46	-10.78
11	2.2785	26.21	Qp	.2	.1	10.1	36.61	56	-19.39	-	-
12	2.28075	22.42	Ca	.2	.1	10.1	32.82	-	-	46	-13.18

LINE 2 RESULTS

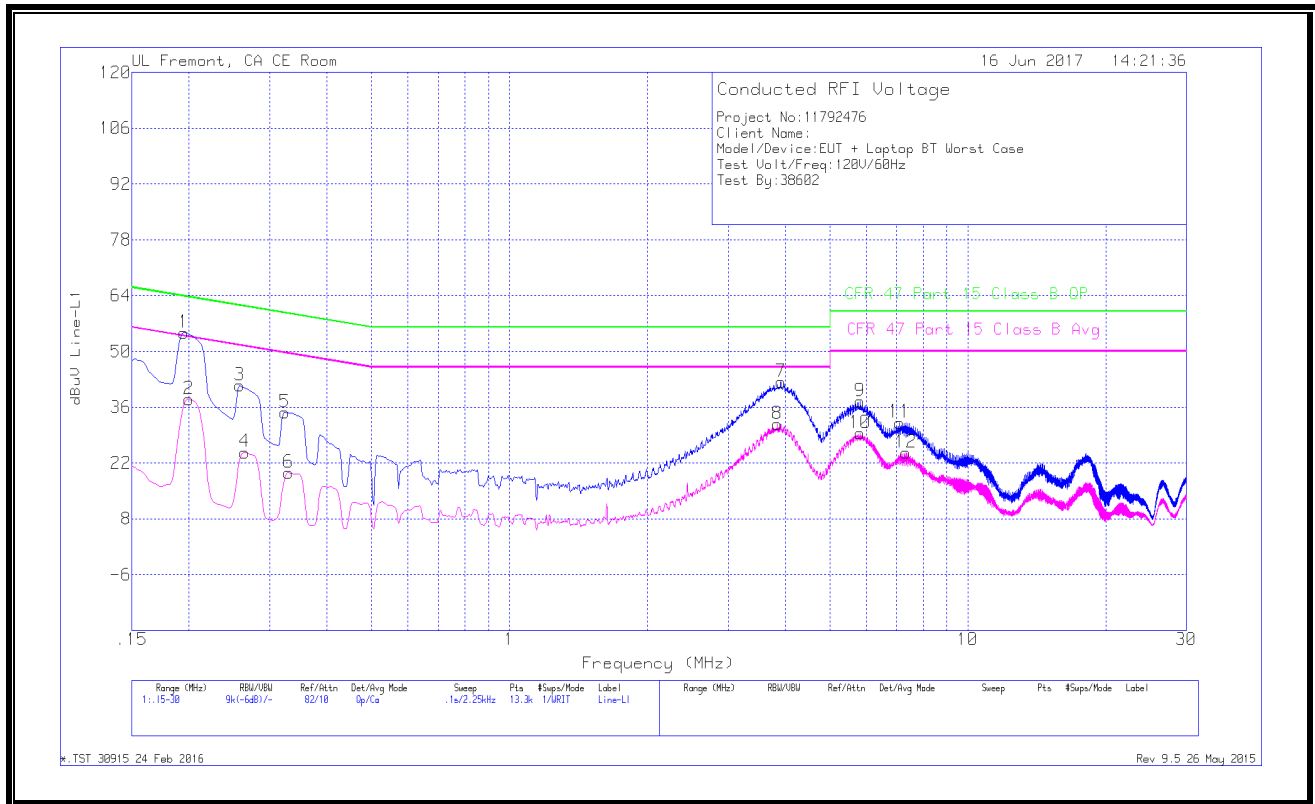


WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL 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	.2175	24.96	Qp	.9	0	10.1	35.96	62.91	-26.95	-	-
14	.2175	9.34	Ca	.9	0	10.1	20.34	-	-	52.91	-32.57
15	.3255	32.36	Qp	.5	.1	10.1	43.06	59.57	-16.51	-	-
16	.3255	21.6	Ca	.5	.1	10.1	32.3	-	-	49.57	-17.27
17	.65175	32.28	Qp	.3	.1	10.1	42.78	56	-13.22	-	-
18	.65175	22.98	Ca	.3	.1	10.1	33.48	-	-	46	-12.52
19	.978	31.72	Qp	.3	.1	10.1	42.22	56	-13.78	-	-
20	.978	24.13	Ca	.3	.1	10.1	34.63	-	-	46	-11.37
21	1.30425	26.44	Qp	.2	.1	10.1	36.84	56	-19.16	-	-
22	1.30425	18.31	Ca	.2	.1	10.1	28.71	-	-	46	-17.29
23	2.28075	24.2	Qp	.2	.1	10.1	34.6	56	-21.4	-	-
24	2.28075	15.64	Ca	.2	.1	10.1	26.04	-	-	46	-19.96

10.2. EUT POWERED BY HOST PC VIA USB CABLE

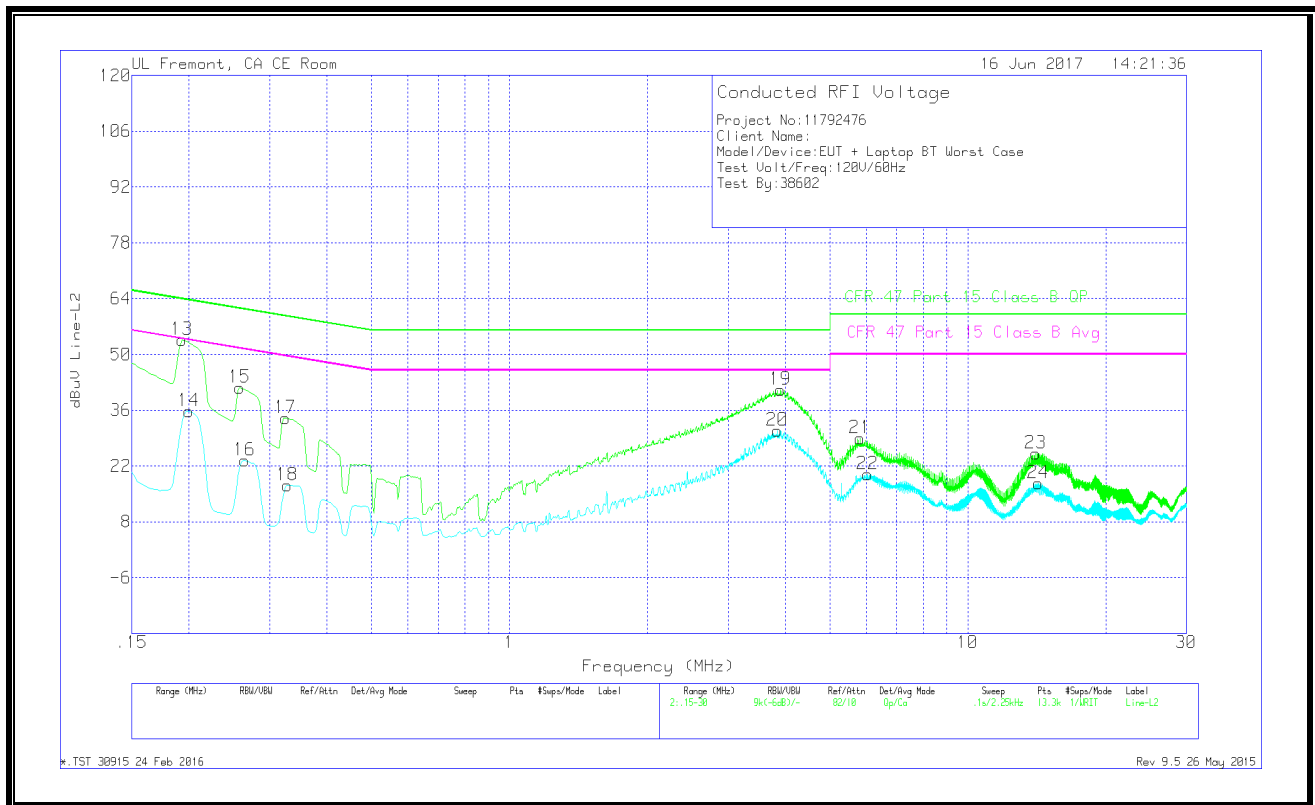
LINE 1 RESULTS



WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL 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	.195	43.59	Qp	.9	.1	10.1	54.69	63.82	-9.13	-	-
2	.1995	26.84	Ca	.9	.1	10.1	37.94	-	-	53.63	-15.69
3	.258	30.69	Qp	.6	.1	10.1	41.49	61.5	-20.01	-	-
4	.26475	13.91	Ca	.6	.1	10.1	24.71	-	-	51.28	-26.57
5	.32325	23.95	Qp	.5	.1	10.1	34.65	59.62	-24.97	-	-
6	.33	8.85	Ca	.5	.1	10.1	19.55	-	-	49.45	-29.9
7	3.90975	31.97	Qp	.2	.1	10.1	42.37	56	-13.63	-	-
8	3.84225	21.39	Ca	.2	.1	10.1	31.79	-	-	46	-14.21
9	5.829	26.92	Qp	.2	.1	10.2	37.42	60	-22.58	-	-
10	5.829	18.97	Ca	.2	.1	10.2	29.47	-	-	50	-20.53
11	7.10925	21.58	Qp	.2	.2	10.2	32.18	60	-27.82	-	-
12	7.32525	14.04	Ca	.2	.2	10.2	24.64	-	-	50	-25.36

LINE 2 RESULTS



WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL 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	.19275	42.27	Qp	1.1	.1	10.1	53.57	63.92	-10.35	-	-
14	.1995	24.6	Ca	1	.1	10.1	35.8	-	-	53.63	-17.83
15	.258	30.81	Qp	.7	.1	10.1	41.71	61.5	-19.79	-	-
16	.26475	12.58	Ca	.7	.1	10.1	23.48	-	-	51.28	-27.8
17	.32437	23.27	Qp	.5	.1	10.1	33.97	59.59	-25.62	-	-
18	.32775	6.42	Ca	.5	.1	10.1	17.12	-	-	49.51	-32.39
19	3.9075	30.68	Qp	.2	.1	10.1	41.08	56	-14.92	-	-
20	3.84	20.47	Ca	.2	.1	10.1	30.87	-	-	46	-15.13
21	5.82675	18.54	Qp	.2	.1	10.2	29.04	60	-30.96	-	-
22	6.0405	9.28	Ca	.2	.2	10.2	19.88	-	-	50	-30.12
23	14.073	14.44	Qp	.3	.2	10.2	25.14	60	-34.86	-	-
24	14.235	6.99	Ca	.3	.2	10.2	17.69	-	-	50	-32.31