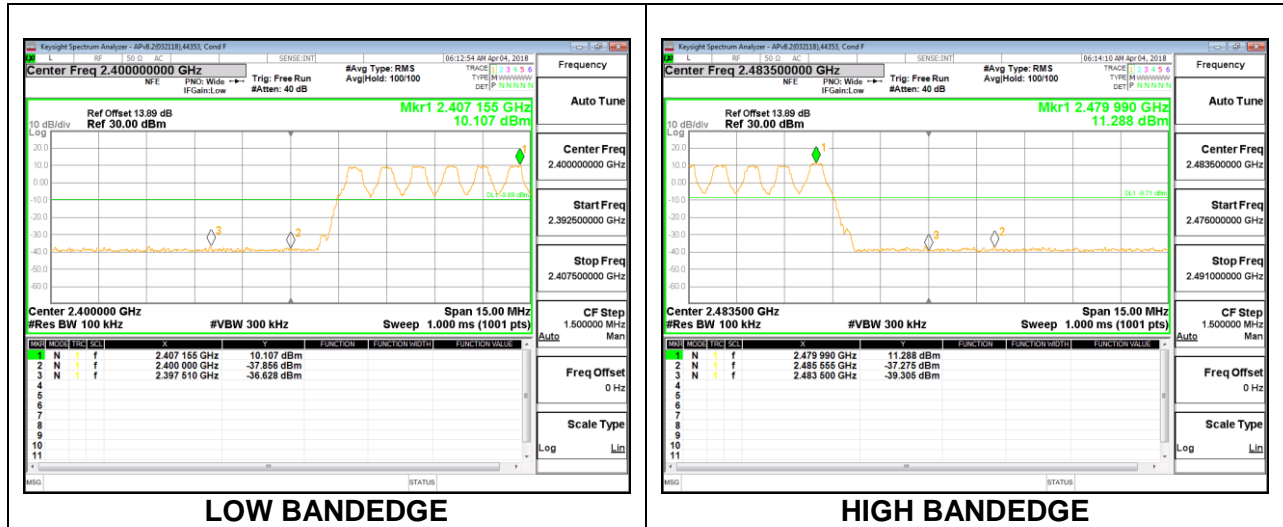
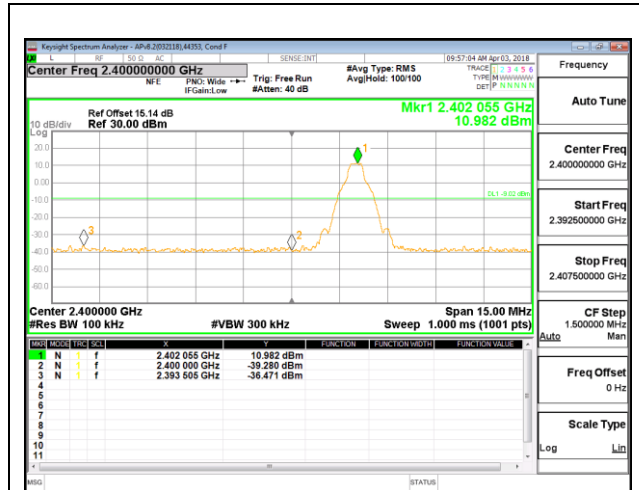


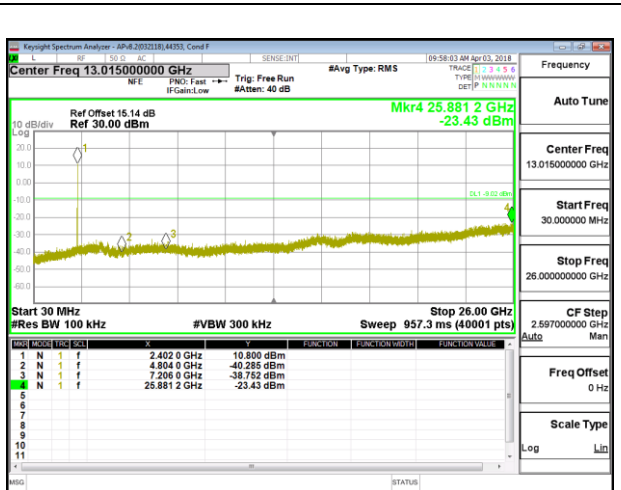
Antenna 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



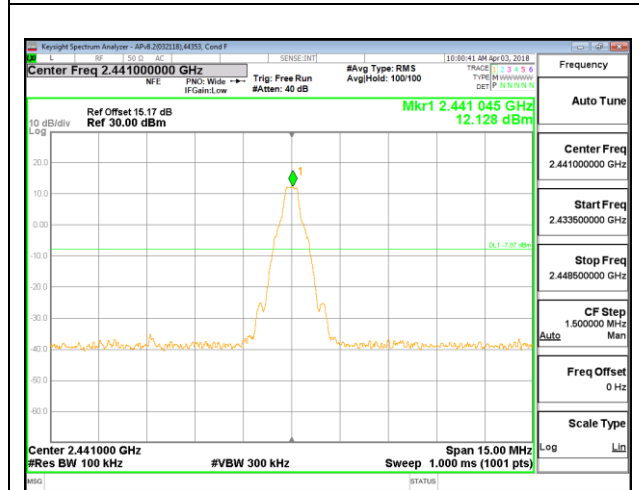
Antenna 3 SPURIOUS EMISSIONS, NON-HOPPING



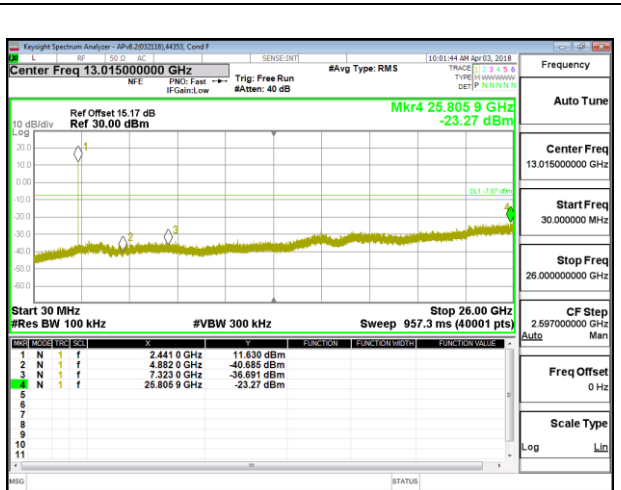
LOW CHANNEL BANDEDGE



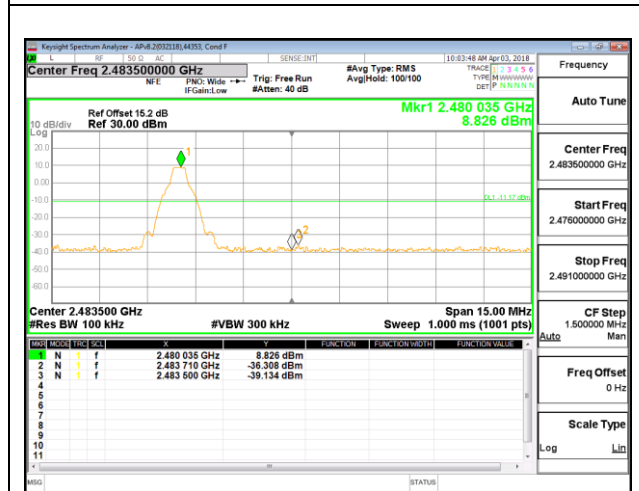
OUT-OF-BAND LOW CHANNEL



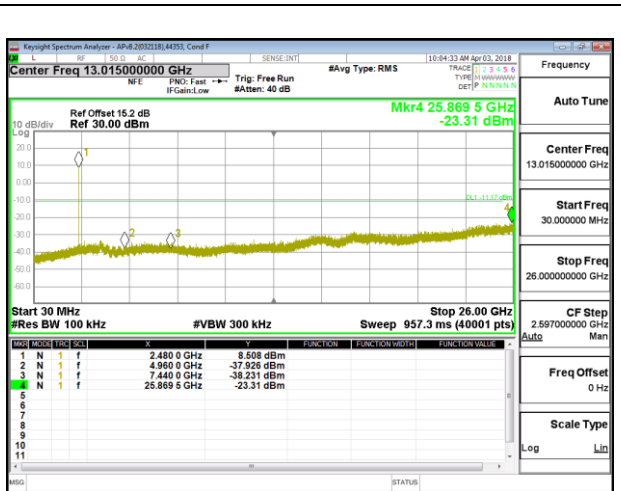
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL

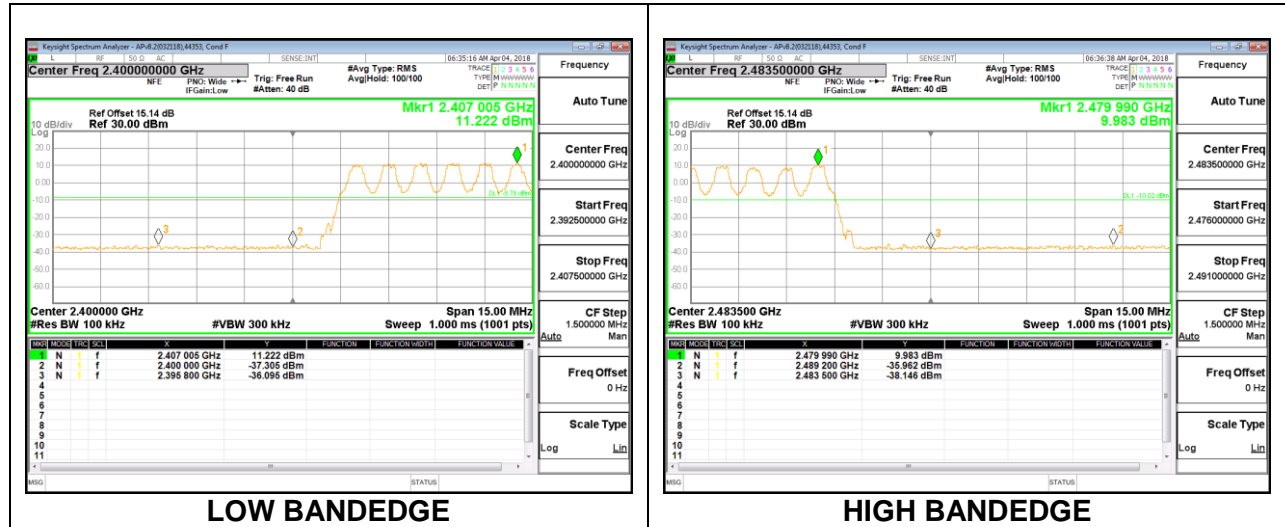


HIGH CHANNEL BANDEDGE



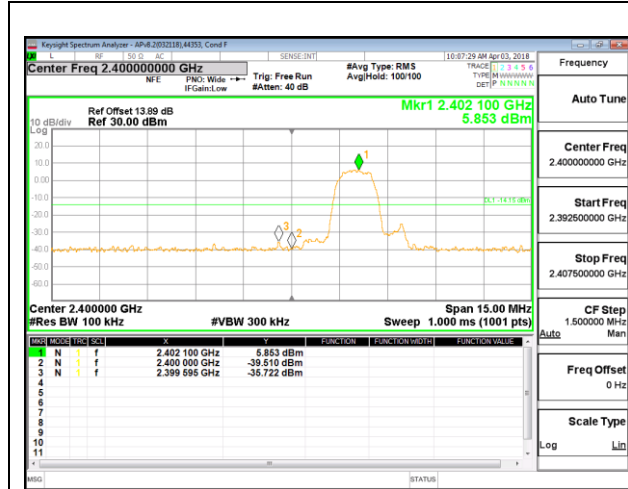
OUT-OF-BAND HIGH CHANNEL

Antenna 3 SPURIOUS BANDEGE EMISSIONS WITH HOPPING ON

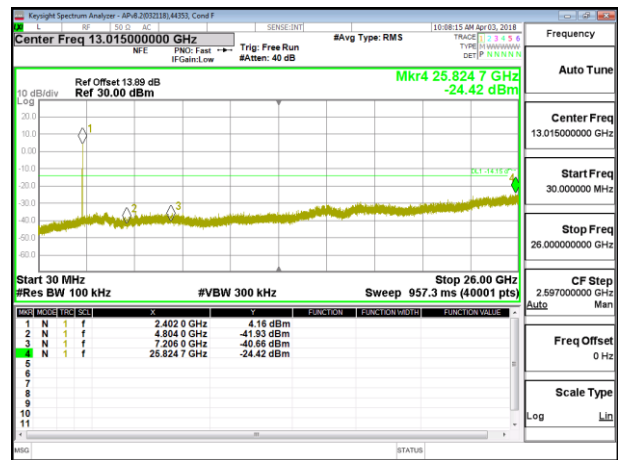


8.8.4. LOW POWER ENCHANCED DATA RATE 8PSK MODULATION

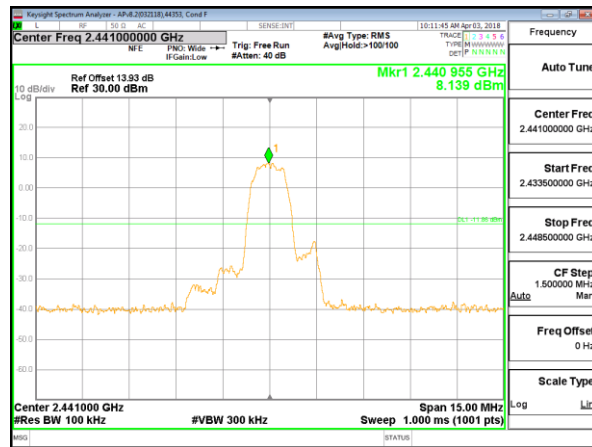
Antenna 4 SPURIOUS EMISSIONS, NON-HOPPING



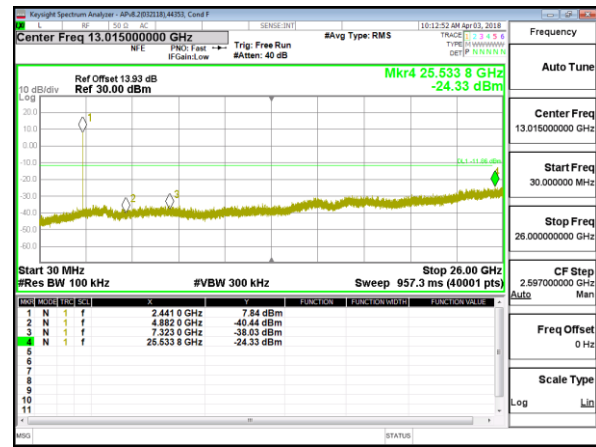
LOW CHANNEL BANDEDGE



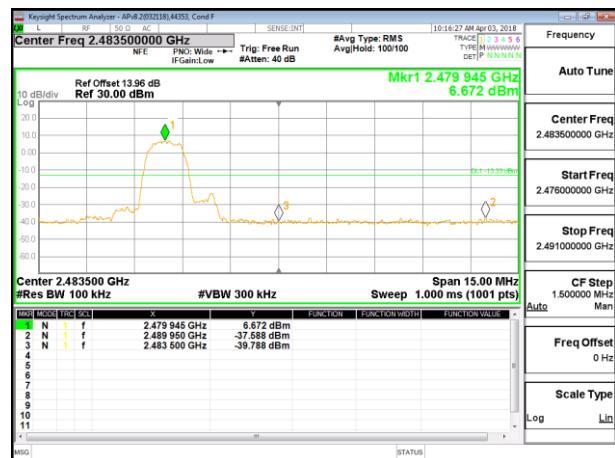
OUT-OF-BAND LOW CHANNEL



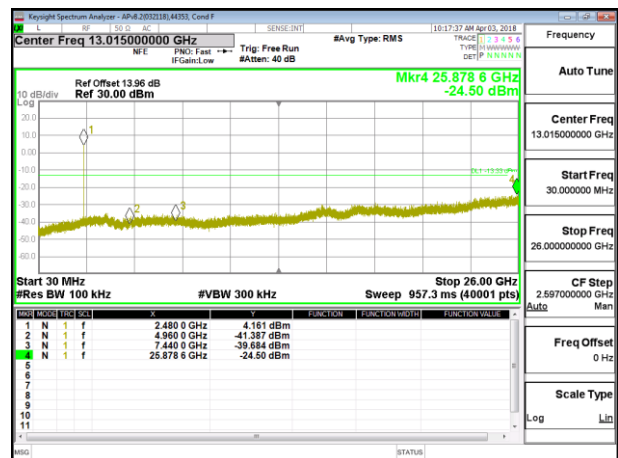
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL

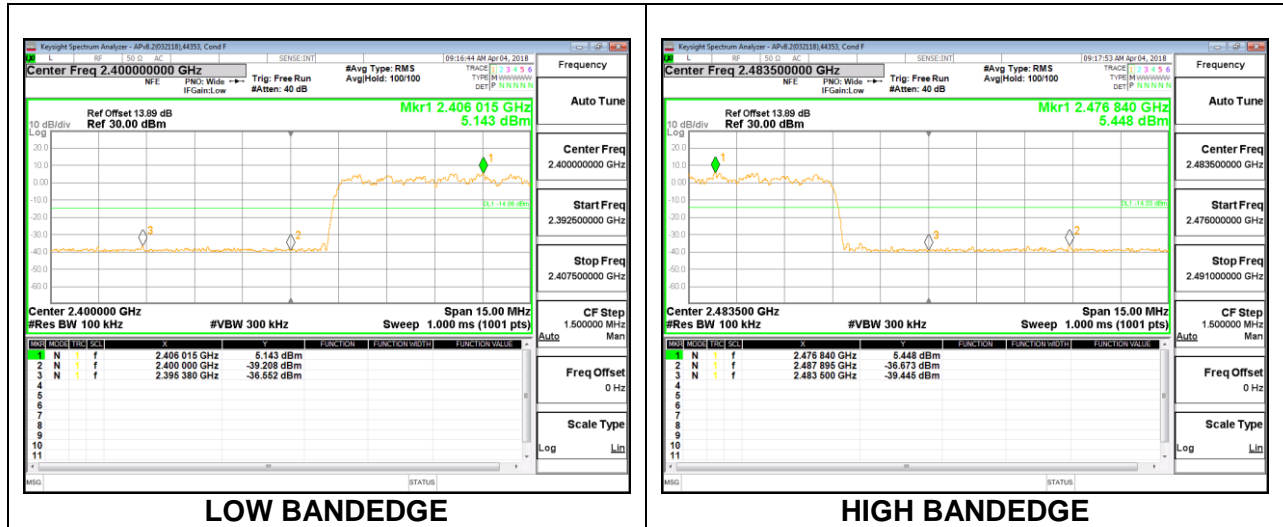


HIGH CHANNEL BANDEDGE

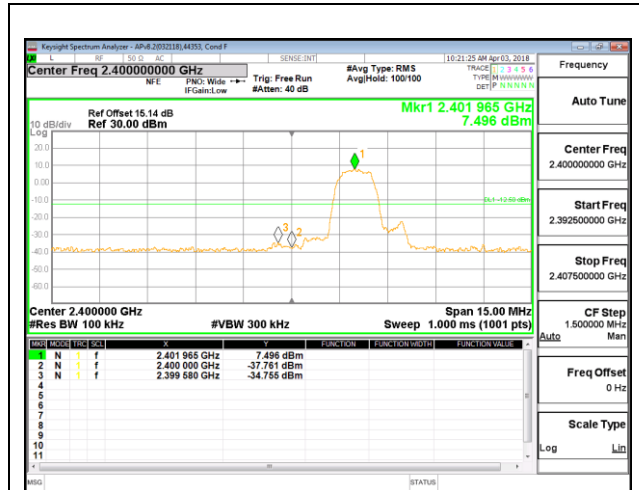


OUT-OF-BAND HIGH CHANNEL

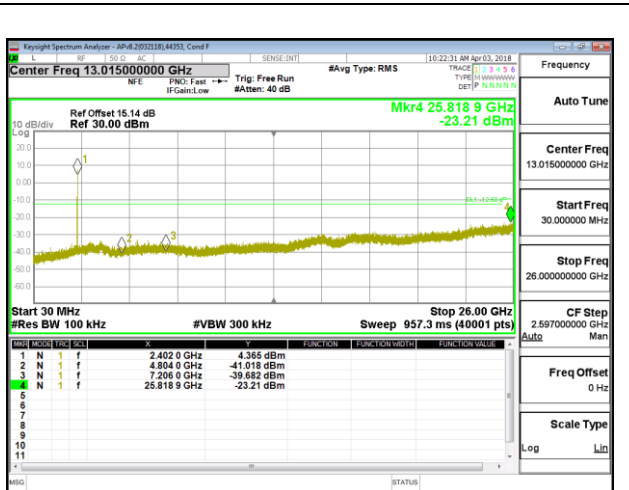
Antenna 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



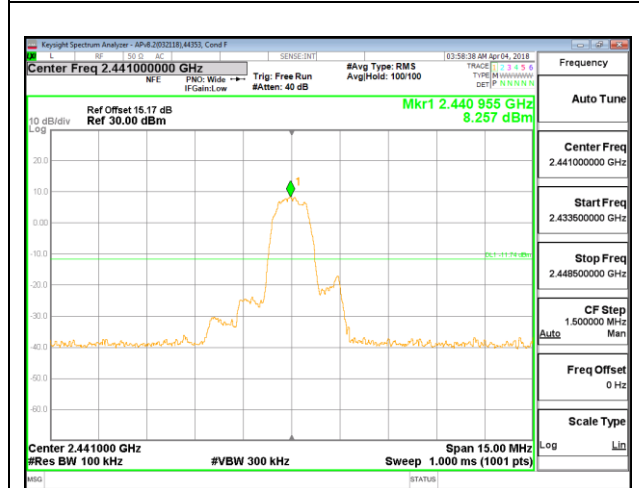
Antenna 3 SPURIOUS EMISSIONS, NON-HOPPING



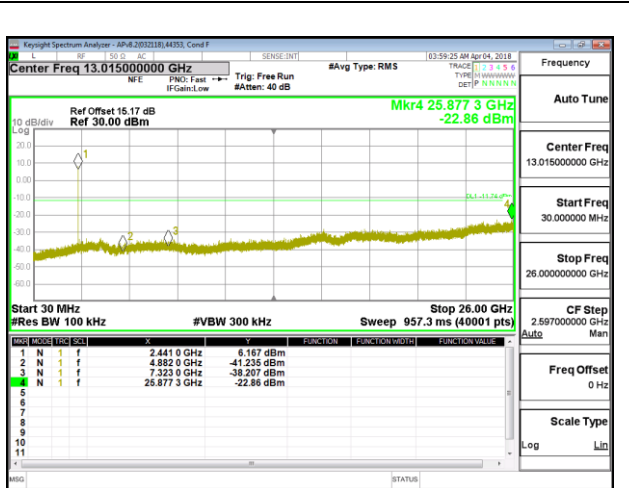
LOW CHANNEL BANDEDGE



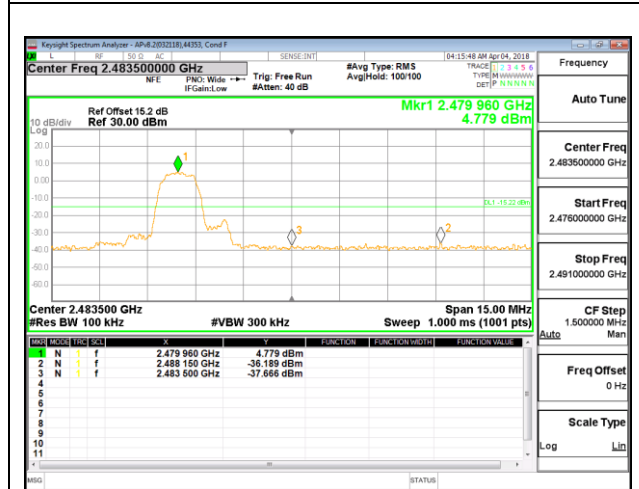
OUT-OF-BAND LOW CHANNEL



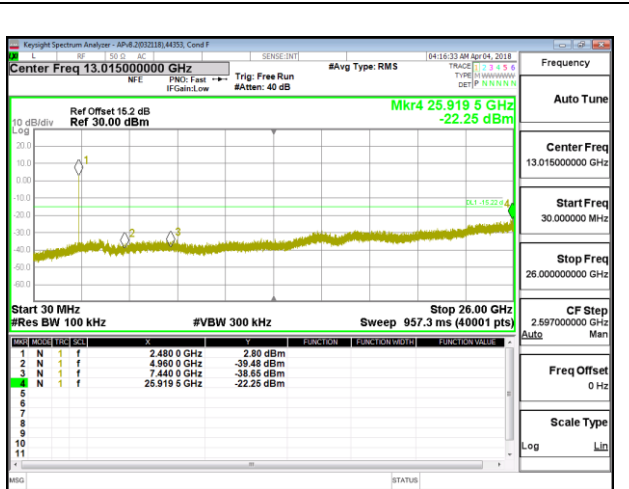
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL

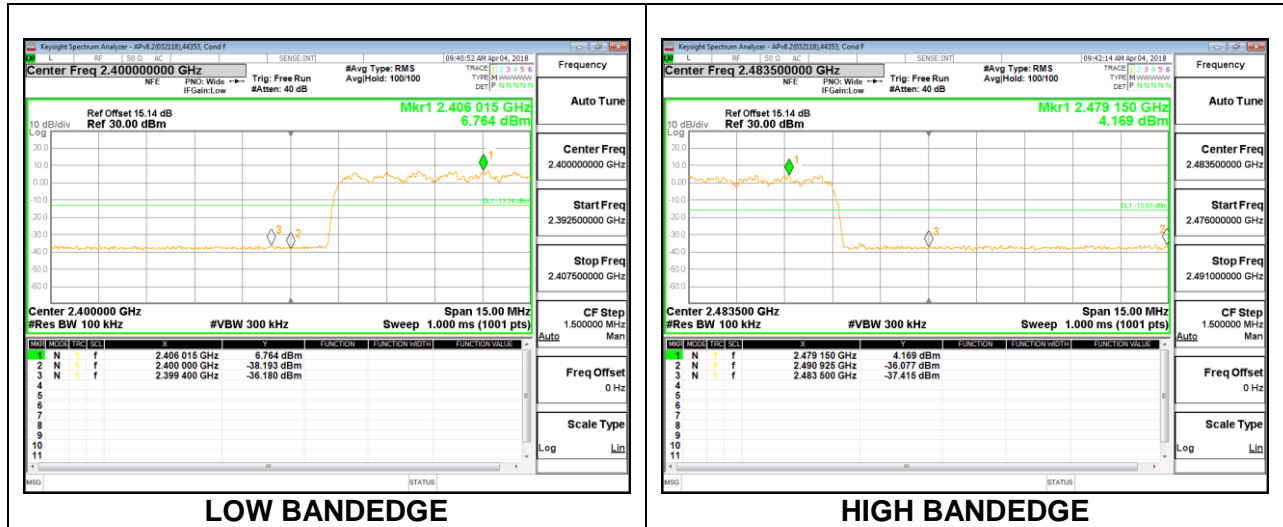


HIGH CHANNEL BANDEDGE



OUT-OF-BAND HIGH CHANNEL

Antenna 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



9. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209

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
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
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.

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

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.

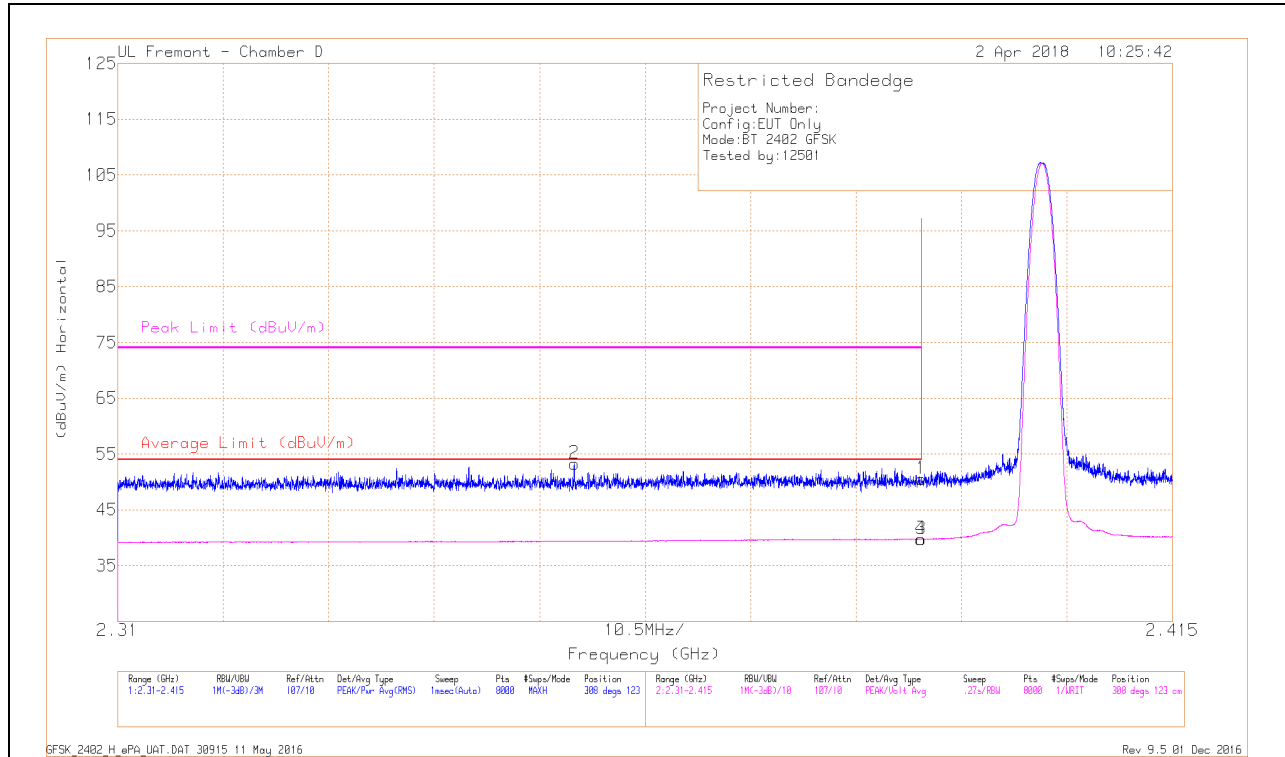
9.1. TRANSMITTER ABOVE 1 GHz

9.1.1. HIGH POWER BASIC DATA RATE GFSK MODULATION

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



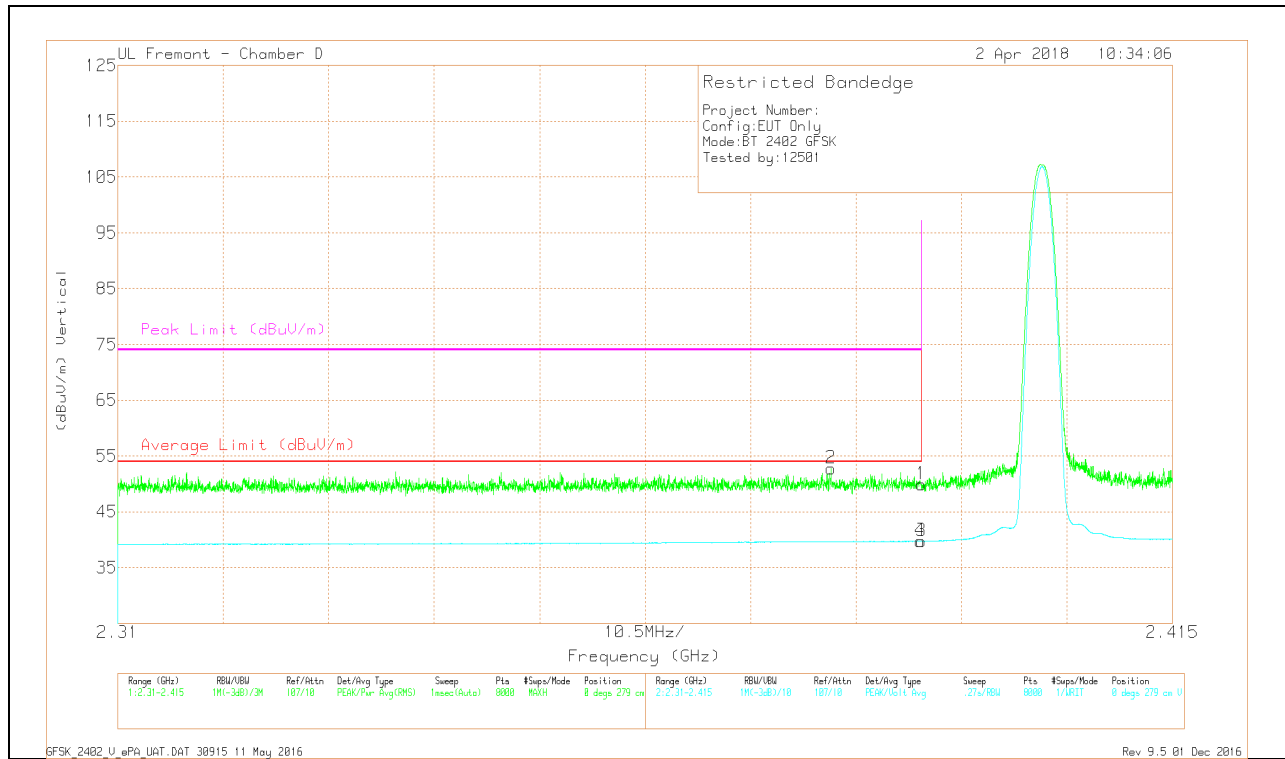
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.11	Pk	31.9	-20.5	50.51	-	-	74	-23.49	308	123	H
2	* 2.355	42.13	Pk	31.7	-20.6	53.23	-	-	74	-20.77	308	123	H
3	* 2.39	28.34	VA1T	31.9	-20.5	39.74	54	-14.26	-	-	308	123	H
4	* 2.39	28.37	VA1T	31.9	-20.5	39.77	54	-14.23	-	-	308	123	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

VERTICAL RESULT

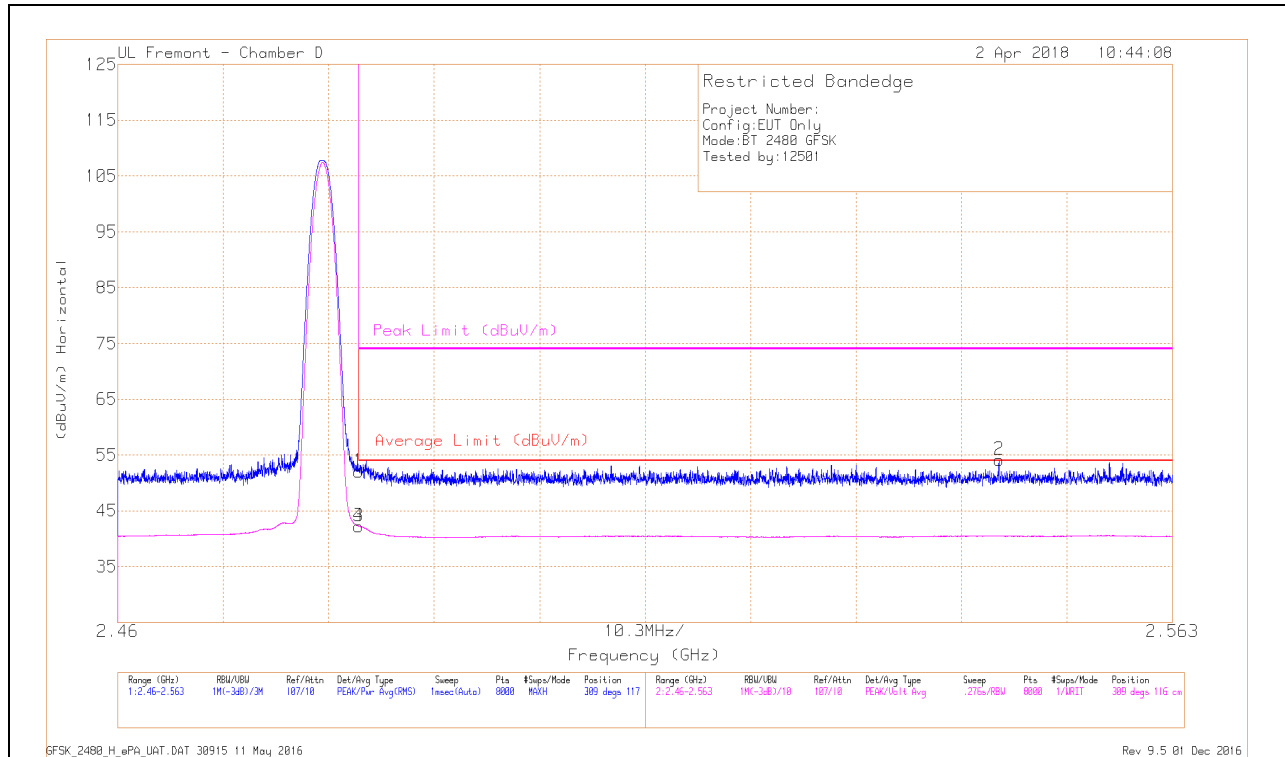


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.55	Pk	31.9	-20.5	49.95	-	-	74	-24.05	0	279	V
2	* 2.381	41.35	Pk	31.8	-20.4	52.75	-	-	74	-21.25	0	279	V
3	* 2.39	28.31	VA1T	31.9	-20.5	39.71	54	-14.29	-	-	0	279	V
4	* 2.39	28.36	VA1T	31.9	-20.5	39.76	54	-14.24	-	-	0	279	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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



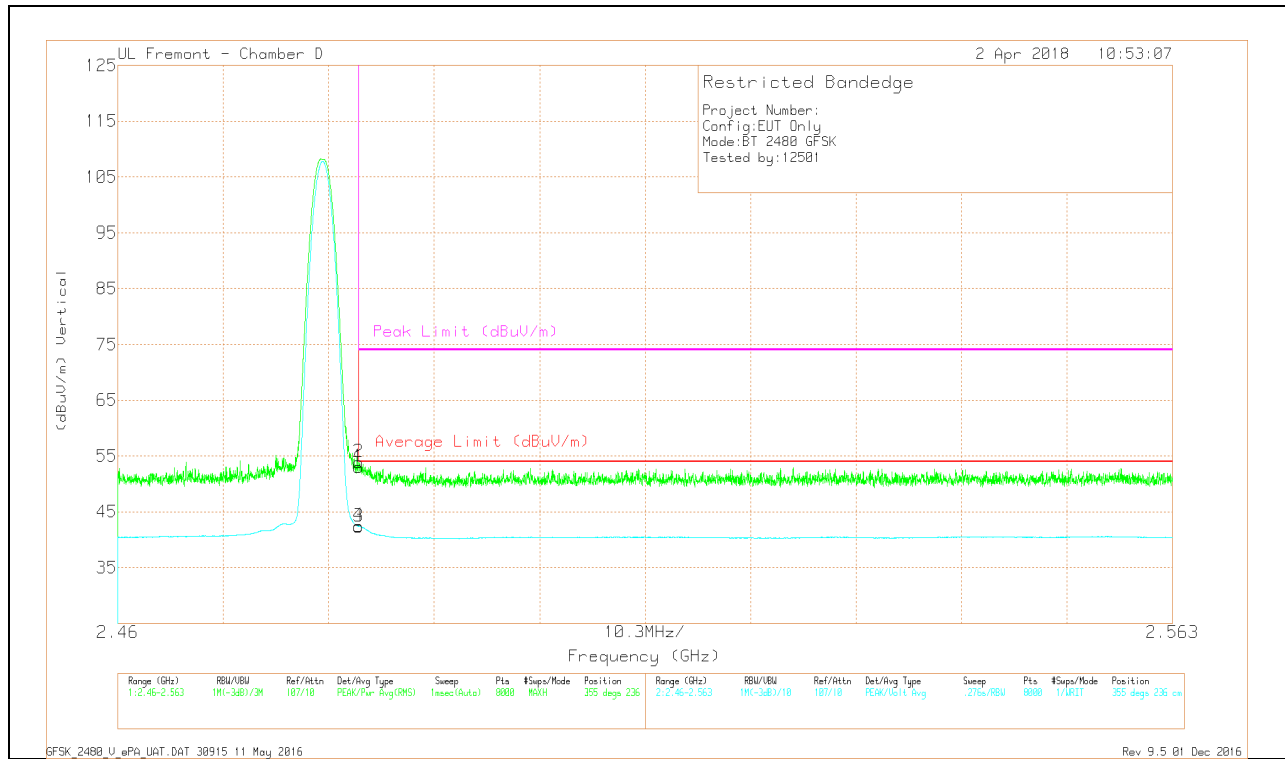
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.08	Pk	32.4	-20.4	52.08	-	-	74	-21.92	309	117	H
3	* 2.484	30.26	VA1T	32.4	-20.4	42.26	54	-11.74	-	-	309	116	H
4	* 2.484	30.26	VA1T	32.4	-20.4	42.26	54	-11.74	-	-	309	116	H
2	2.546	42.02	Pk	32.4	-20.3	54.12	-	-	74	-19.88	309	117	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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/P ad (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	40.97	Pk	32.4	-20.4	52.97	-	-	74	-21.03	355	236	V
2	* 2.484	41.94	Pk	32.4	-20.5	53.84	-	-	74	-20.16	355	236	V
3	* 2.484	30.39	VA1T	32.4	-20.4	42.39	54	-11.61	-	-	355	236	V
4	* 2.484	30.42	VA1T	32.4	-20.4	42.42	54	-11.58	-	-	355	236	V

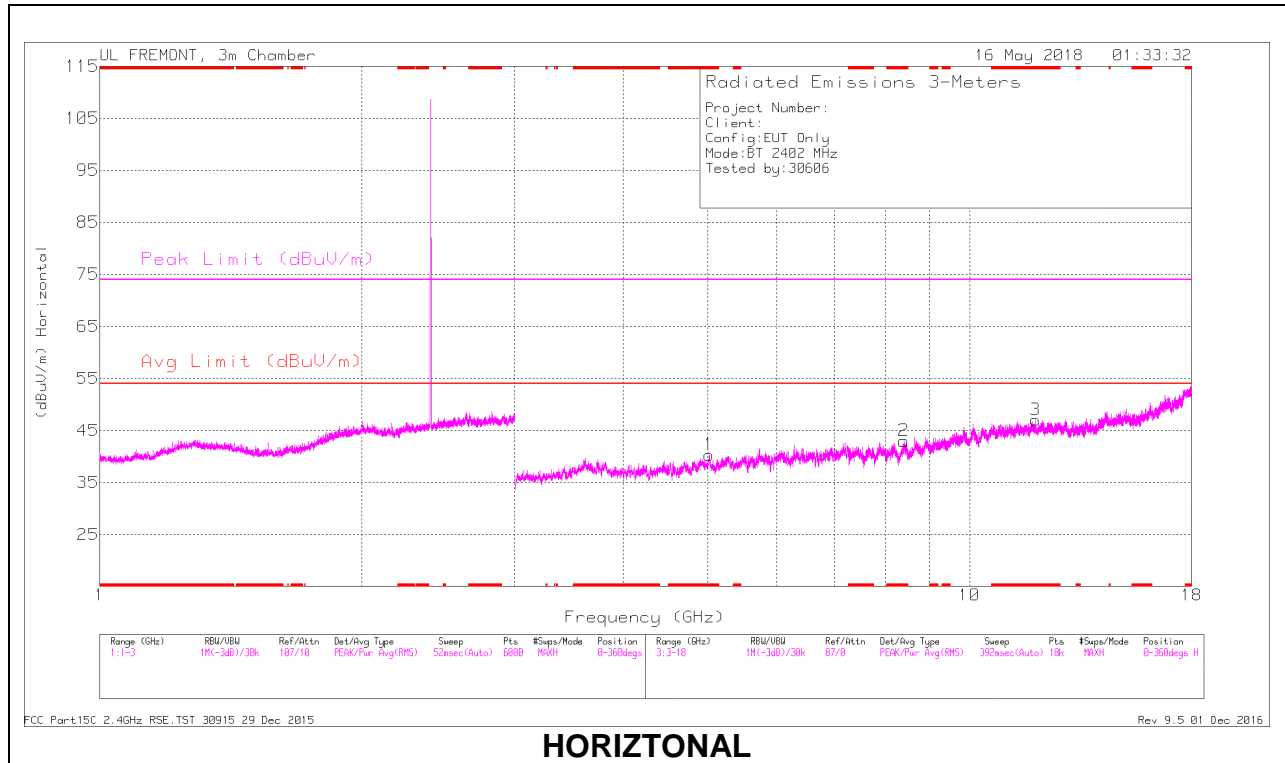
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

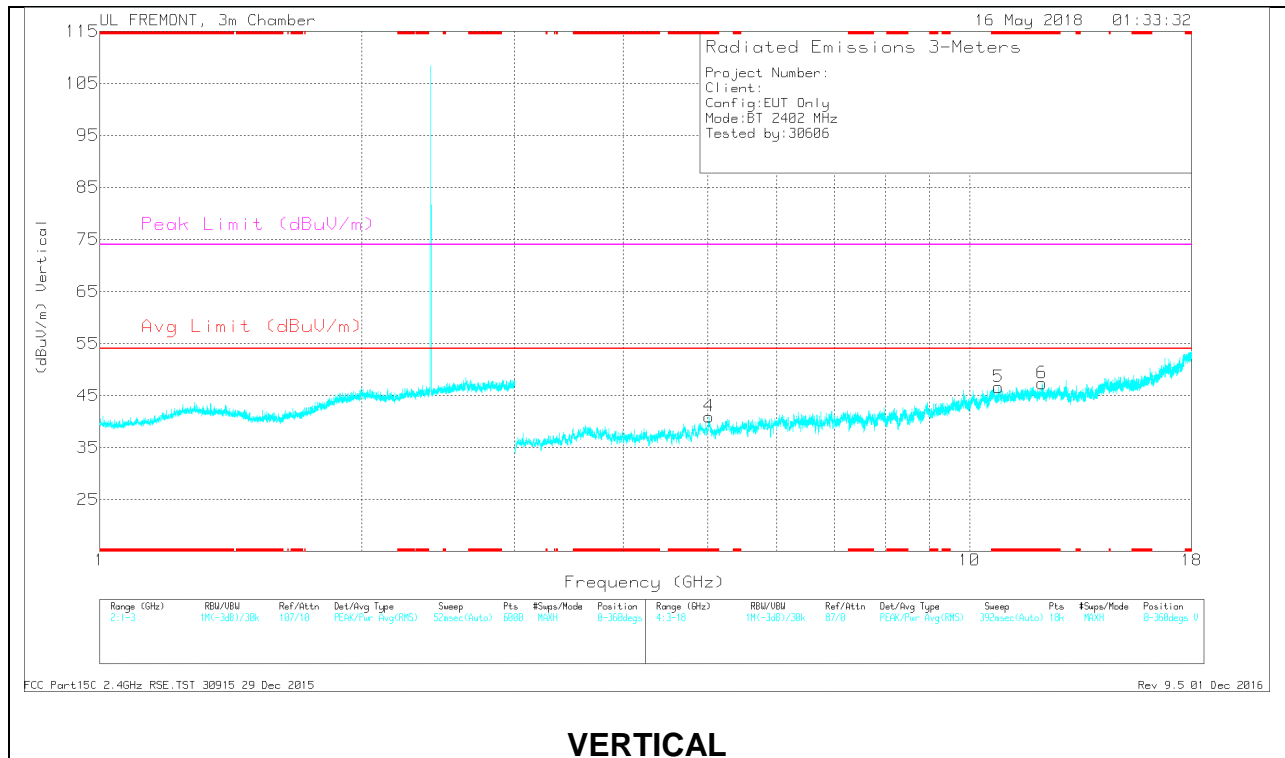
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

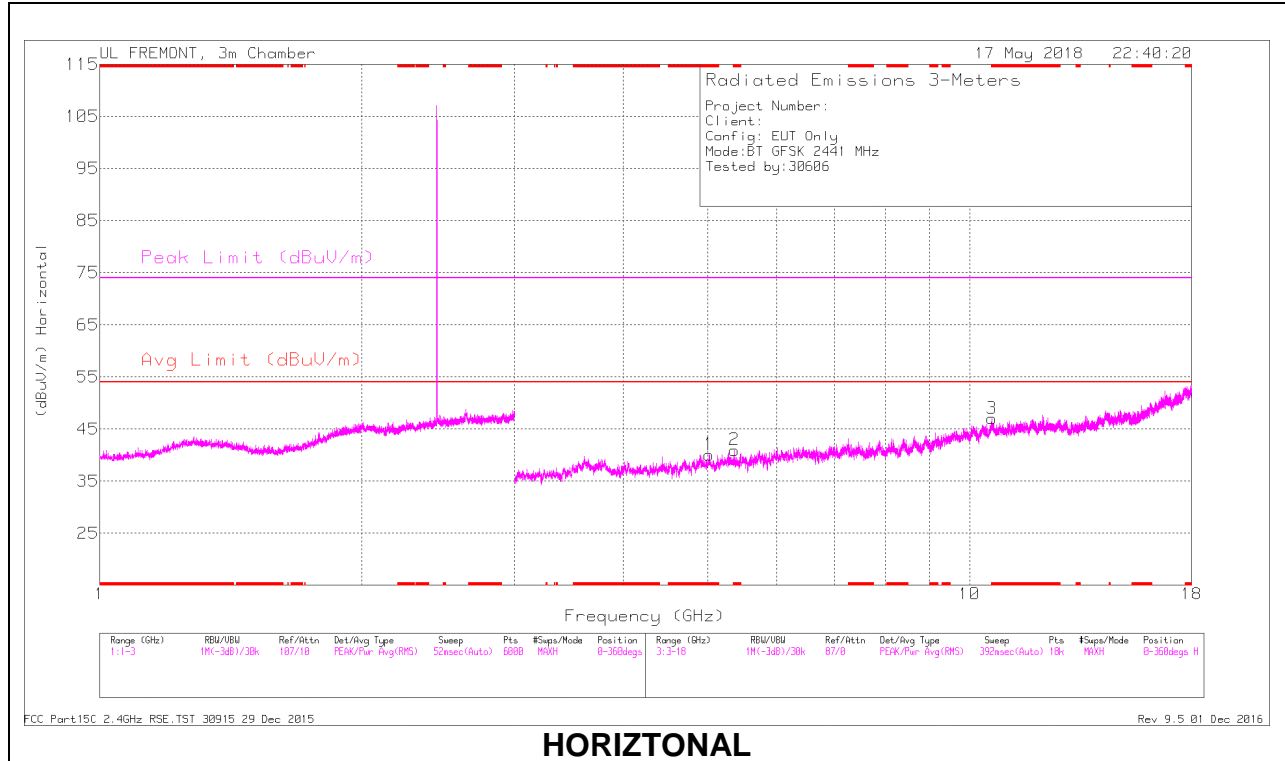
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.02	36.36	PKFH	34.2	-24.2	46.36	-	-	74	-27.64	125	116	H
	* 5.02	24.81	VA1T	34.2	-24.2	34.81	54	-19.19	-	-	125	116	H
2	* 8.402	34.89	PKFH	35.7	-21.5	49.09	-	-	74	-24.91	140	149	H
	* 8.405	22.89	VA1T	35.7	-21.8	36.79	54	-17.21	-	-	140	149	H
3	* 11.899	35.09	PKFH	39	-21.7	52.39	-	-	74	-21.61	175	181	H
	* 11.898	23.16	VA1T	39	-21.7	40.46	54	-13.54	-	-	175	181	H
4	* 5.021	36.77	PKFH	34.2	-24.3	46.67	-	-	74	-27.33	48	191	V
	* 5.021	25.28	VA1T	34.2	-24.2	35.28	54	-18.72	-	-	48	191	V
5	* 10.789	35.21	PKFH	37.9	-21	52.11	-	-	74	-21.89	113	216	V
	* 10.787	23.18	VA1T	37.9	-21.2	39.88	54	-14.12	-	-	113	216	V
6	* 12.12	35.07	PKFH	39.1	-22.1	52.07	-	-	74	-21.93	162	248	V
	* 12.119	23.35	VA1T	39.1	-22.1	40.35	54	-13.65	-	-	162	248	V

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

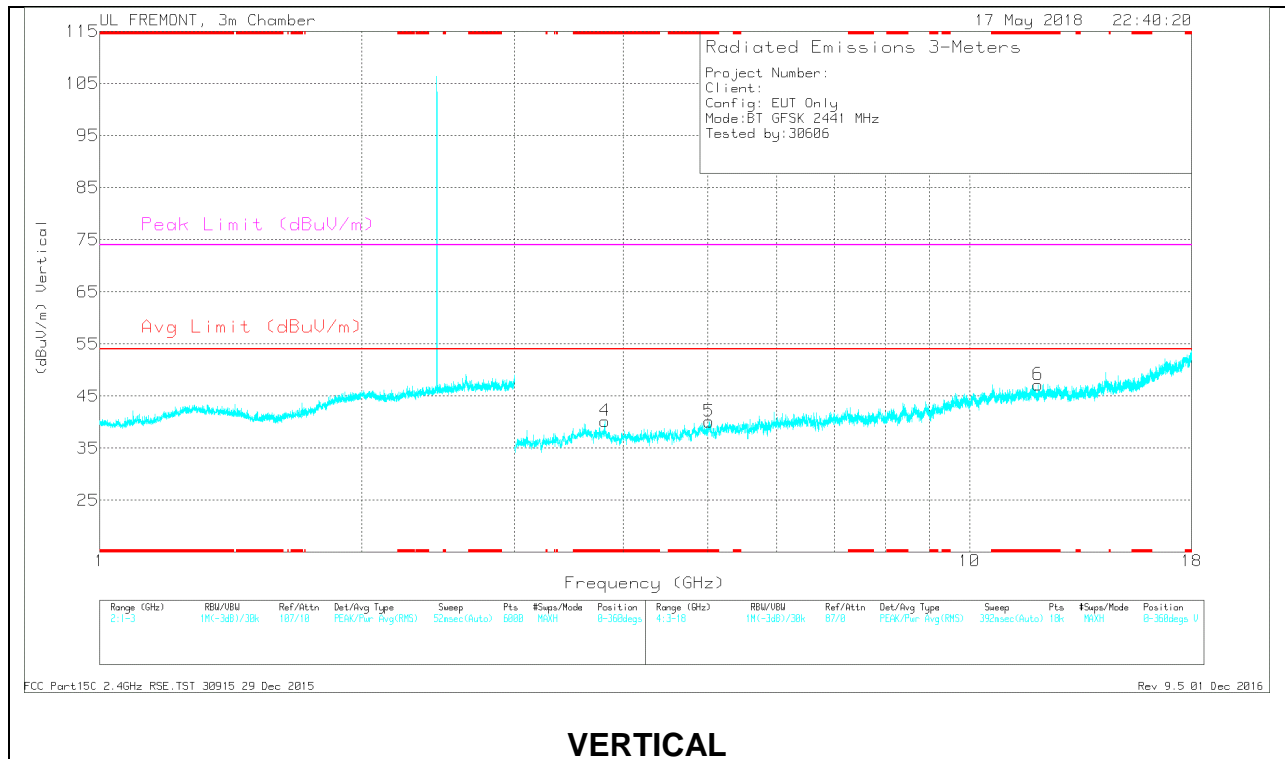
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

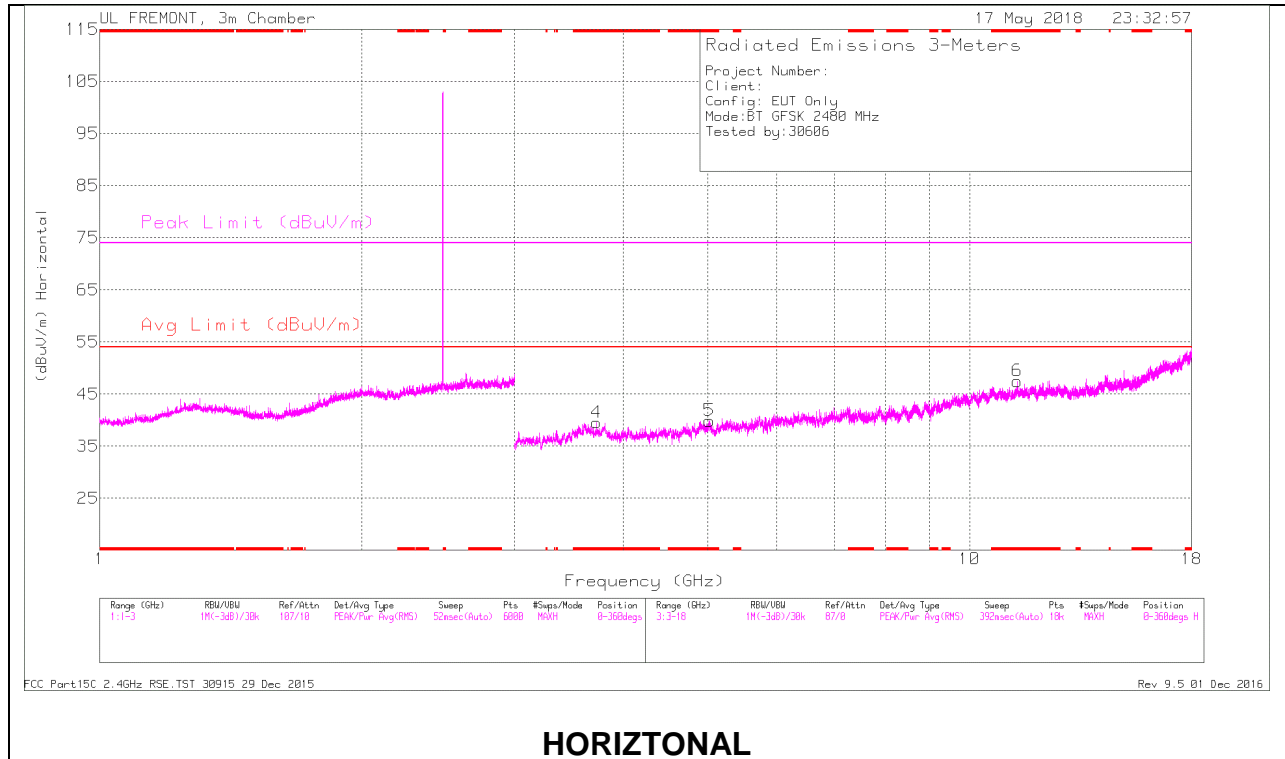
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.021	36.49	PKFH	34.2	-24.2	46.49	-	-	74	-27.51	170	391	H
	* 5.021	24.78	VA1T	34.2	-24.2	34.78	54	-19.22	-	-	170	391	H
2	* 5.366	37.78	PKFH	34.8	-26.6	45.98	-	-	74	-28.02	180	291	H
	* 5.366	25.8	VA1T	34.8	-26.6	34	54	-20	-	-	180	291	H
3	* 10.618	35.56	PKFH	37.8	-21	52.36	-	-	74	-21.64	82	112	H
	* 10.616	23.65	VA1T	37.8	-21	40.45	54	-13.55	-	-	82	112	H
4	* 3.81	38.32	PKFH	33.7	-26.7	45.32	-	-	74	-28.68	269	293	V
	* 3.811	27.07	VA1T	33.7	-26.8	33.97	54	-20.03	-	-	269	293	V
5	* 5.02	37.65	PKFH	34.2	-24.2	47.65	-	-	74	-26.35	302	352	V
	* 5.02	24.73	VA1T	34.2	-24.2	34.73	54	-19.27	-	-	302	352	V
6	* 11.983	34.55	PKFH	39	-22.4	51.15	-	-	74	-22.85	305	240	V
	* 11.982	23.15	VA1T	39	-22.4	39.75	54	-14.25	-	-	305	240	V

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

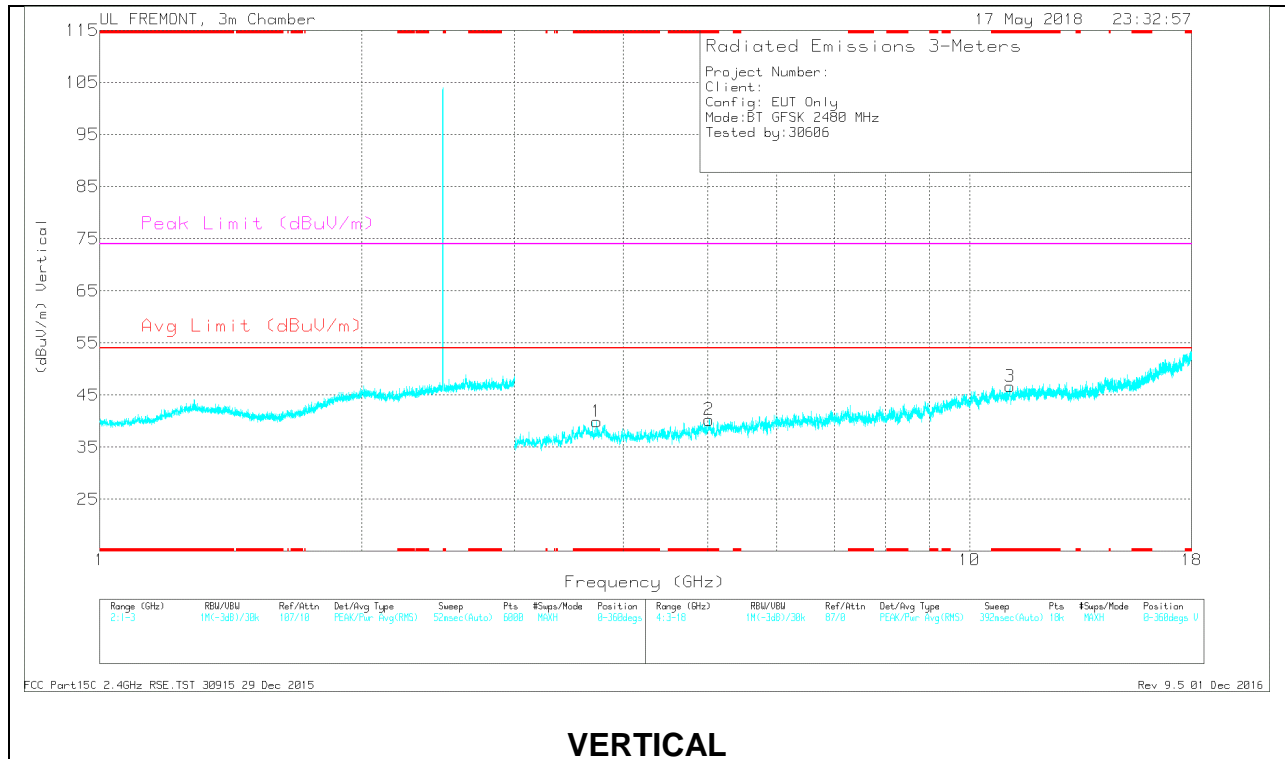
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 3.729	38.26	PKFH	34	-27.1	45.16	-	-	74	-28.84	200	106	H
	* 3.727	26.68	VA1T	34	-27.3	33.38	54	-20.62	-	-	200	106	H
5	* 5.023	37.37	PKFH	34.2	-24.5	47.07	-	-	74	-26.93	268	374	H
	* 5.024	25.08	VA1T	34.2	-24.8	34.48	54	-19.52	-	-	268	374	H
6	* 11.347	35	PKFH	38.3	-21.1	52.2	-	-	74	-21.8	164	173	H
	* 11.347	23.37	VA1T	38.3	-21.1	40.57	54	-13.43	-	-	164	173	H
1	* 3.729	38.11	PKFH	34	-27.2	44.91	-	-	74	-29.09	81	400	V
	* 3.727	26.61	VA1T	34	-27.3	33.31	54	-20.69	-	-	81	400	V
2	* 5.019	36.16	PKFH	34.2	-24.3	46.06	-	-	74	-27.94	338	359	V
	* 5.021	24.77	VA1T	34.2	-24.2	34.77	54	-19.23	-	-	338	359	V
3	* 11.141	34.91	PKFH	38.2	-21.4	51.71	-	-	74	-22.29	215	305	V
	* 11.142	22.88	VA1T	38.2	-21.4	39.68	54	-14.32	-	-	215	305	V

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

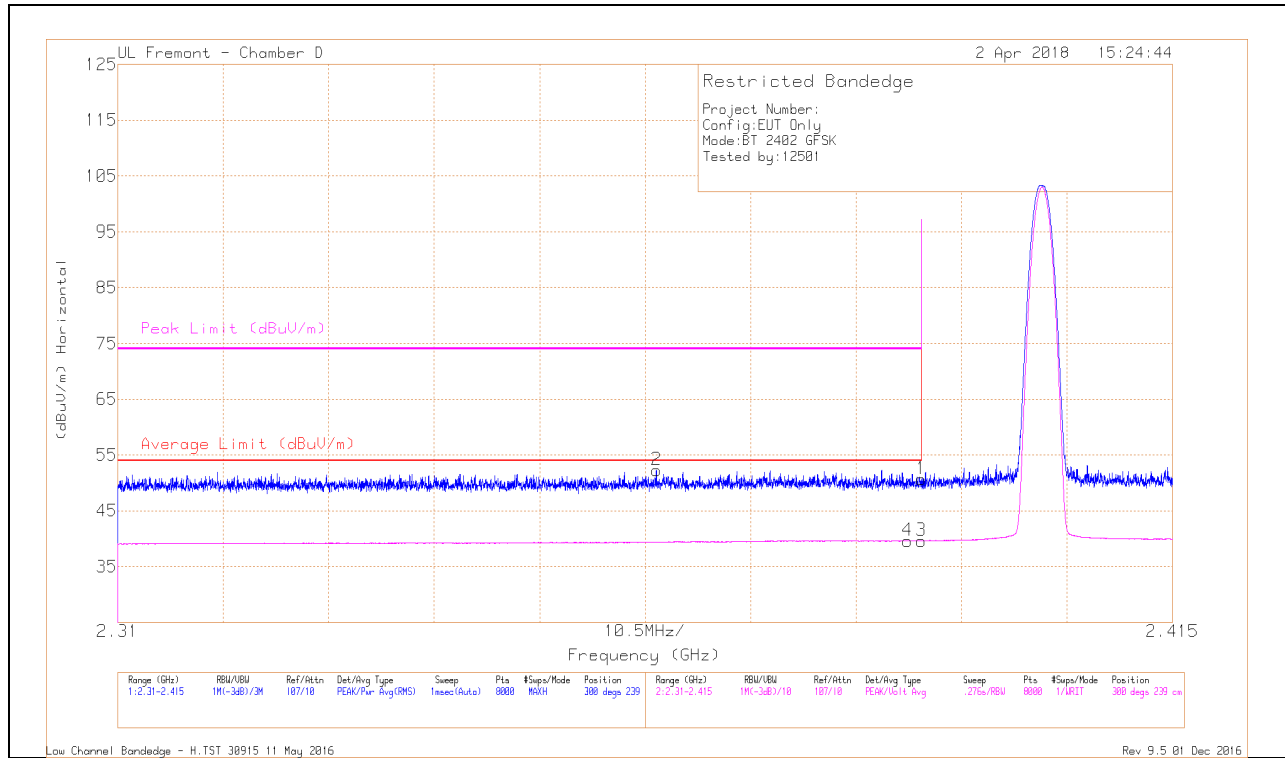
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

Antenna 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



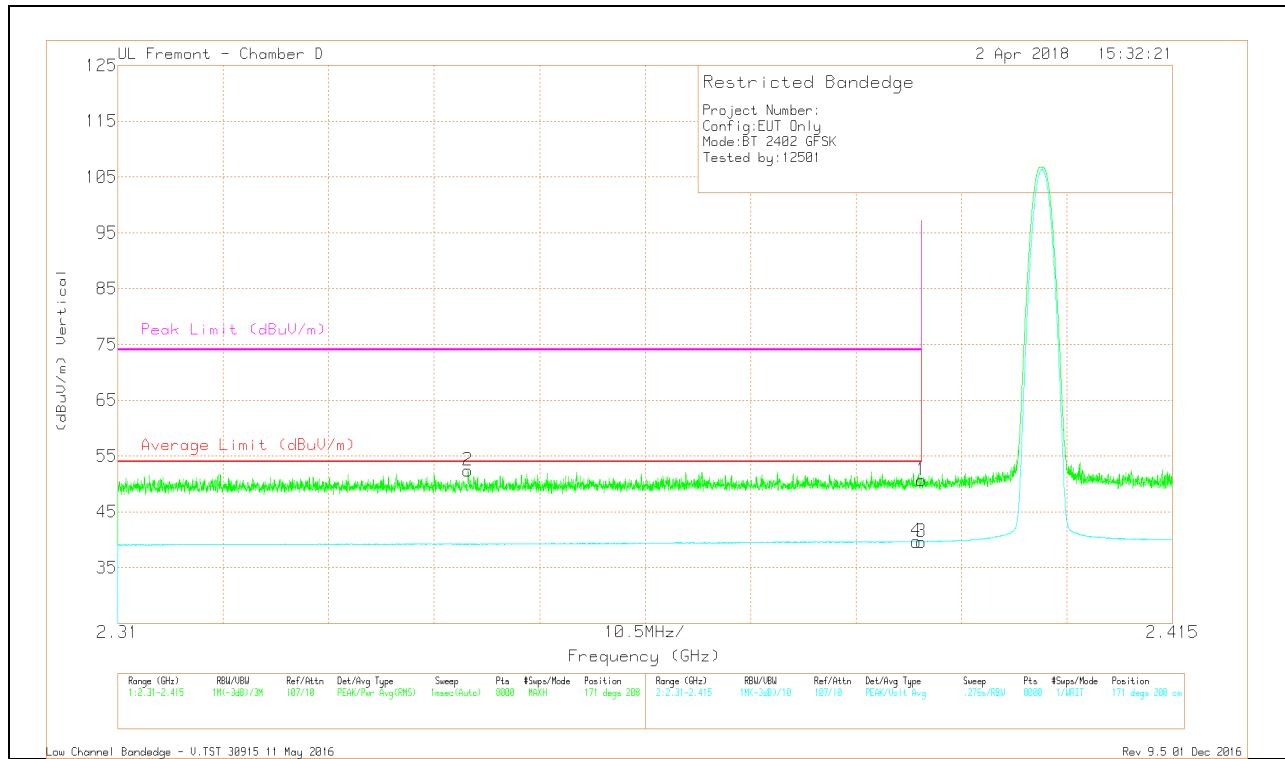
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.23	Pk	31.9	-20.5	50.63	-	-	74	-23.37	300	239	H
2	* 2.364	41.17	Pk	31.7	-20.6	52.27	-	-	74	-21.73	300	239	H
3	* 2.39	28.2	VA1T	31.9	-20.5	39.6	54	-14.4	-	-	300	239	H
4	* 2.389	28.25	VA1T	31.9	-20.5	39.65	54	-14.35	-	-	300	239	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

VERTICAL RESULT

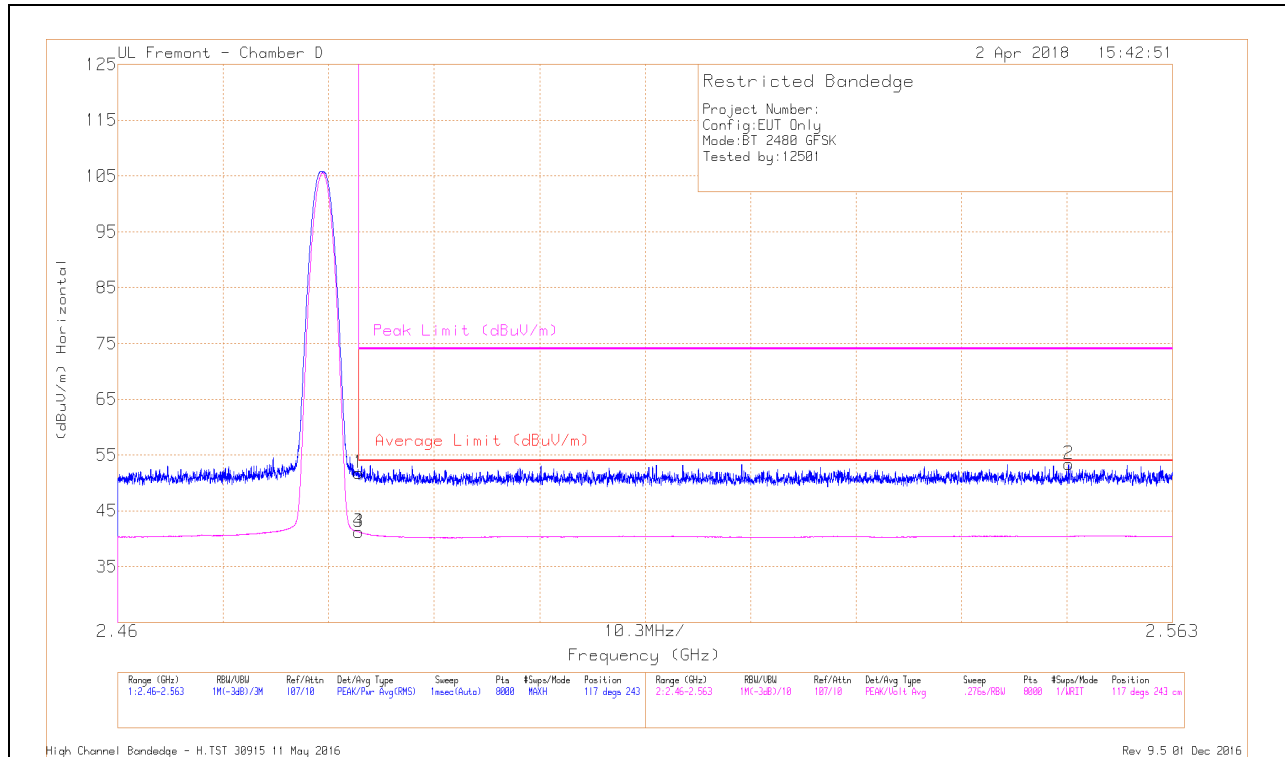


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.32	Pk	31.9	-20.5	50.72	-	-	74	-23.28	171	208	V
2	* 2.345	41.41	Pk	31.6	-20.6	52.41	-	-	74	-21.59	171	208	V
3	* 2.39	28.26	VA1T	31.9	-20.5	39.66	54	-14.34	-	-	171	208	V
4	* 2.389	28.28	VA1T	31.9	-20.5	39.68	54	-14.32	-	-	171	208	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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



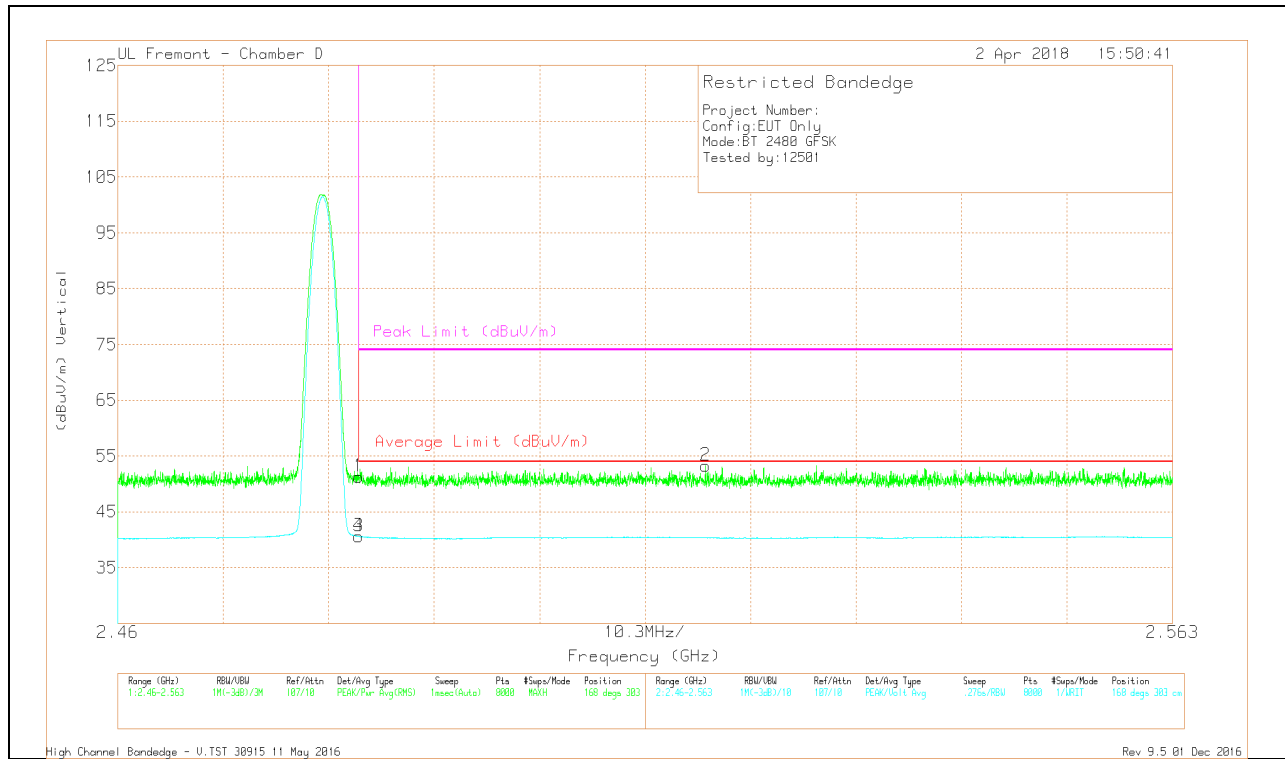
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.83	Pk	32.4	-20.4	51.83	-	-	74	-22.17	117	243	H
3	* 2.484	29.21	VA1T	32.4	-20.4	41.21	54	-12.79	-	-	117	243	H
4	* 2.484	29.18	VA1T	32.4	-20.4	41.18	54	-12.82	-	-	117	243	H
2	2.553	41.26	Pk	32.4	-20.3	53.36	-	-	74	-20.64	117	243	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

VERTICAL RESULT



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	39.31	Pk	32.4	-20.4	51.31	-	-	74	-22.69	168	303	V
3	* 2.484	28.59	VA1T	32.4	-20.4	40.59	54	-13.41	-	-	168	303	V
4	* 2.484	28.61	VA1T	32.4	-20.4	40.61	54	-13.39	-	-	168	303	V
2	2.517	41.3	Pk	32.4	-20.4	53.3	-	-	74	-20.7	168	303	V

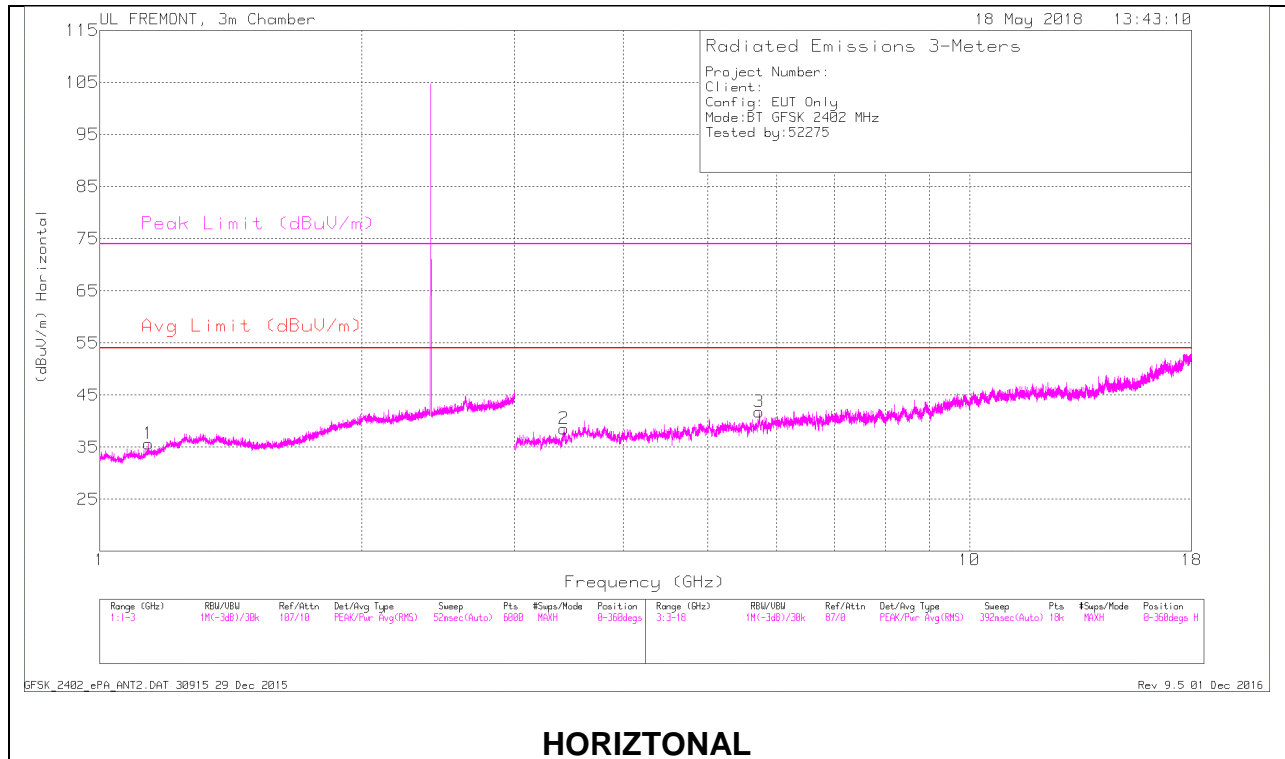
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

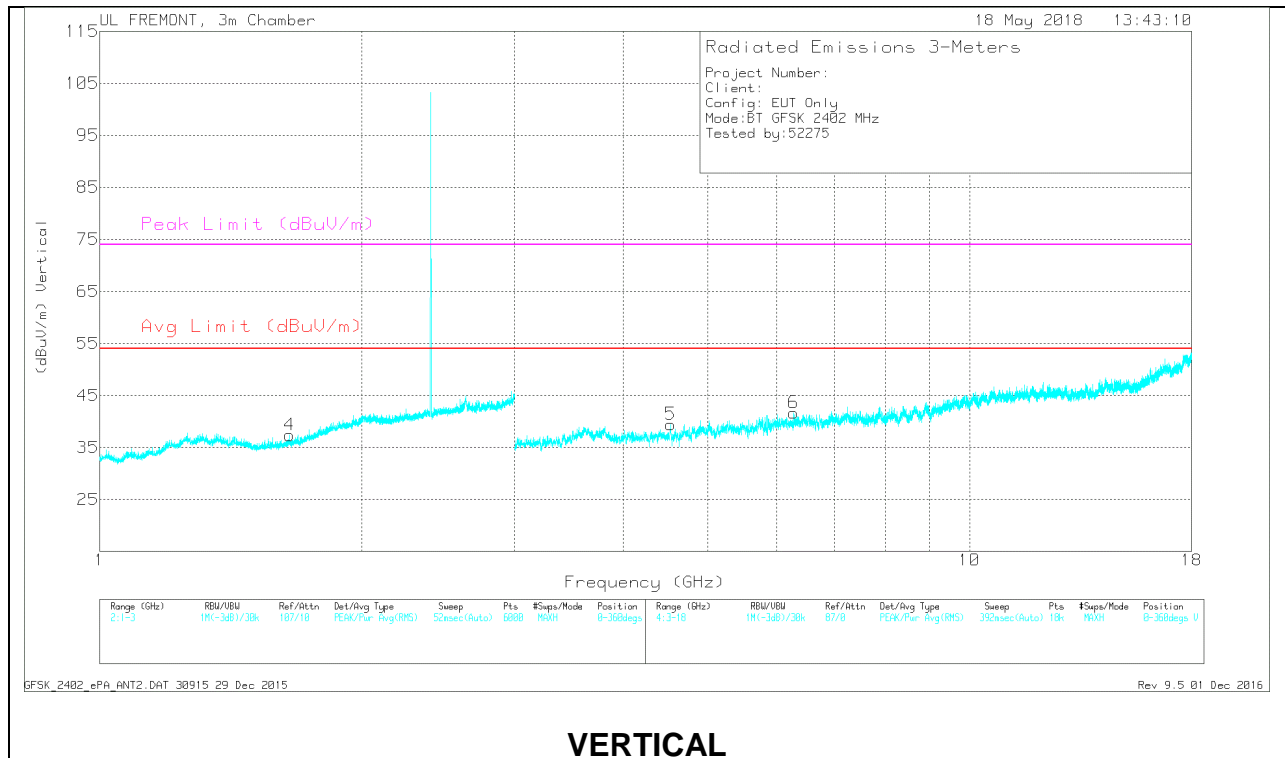
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

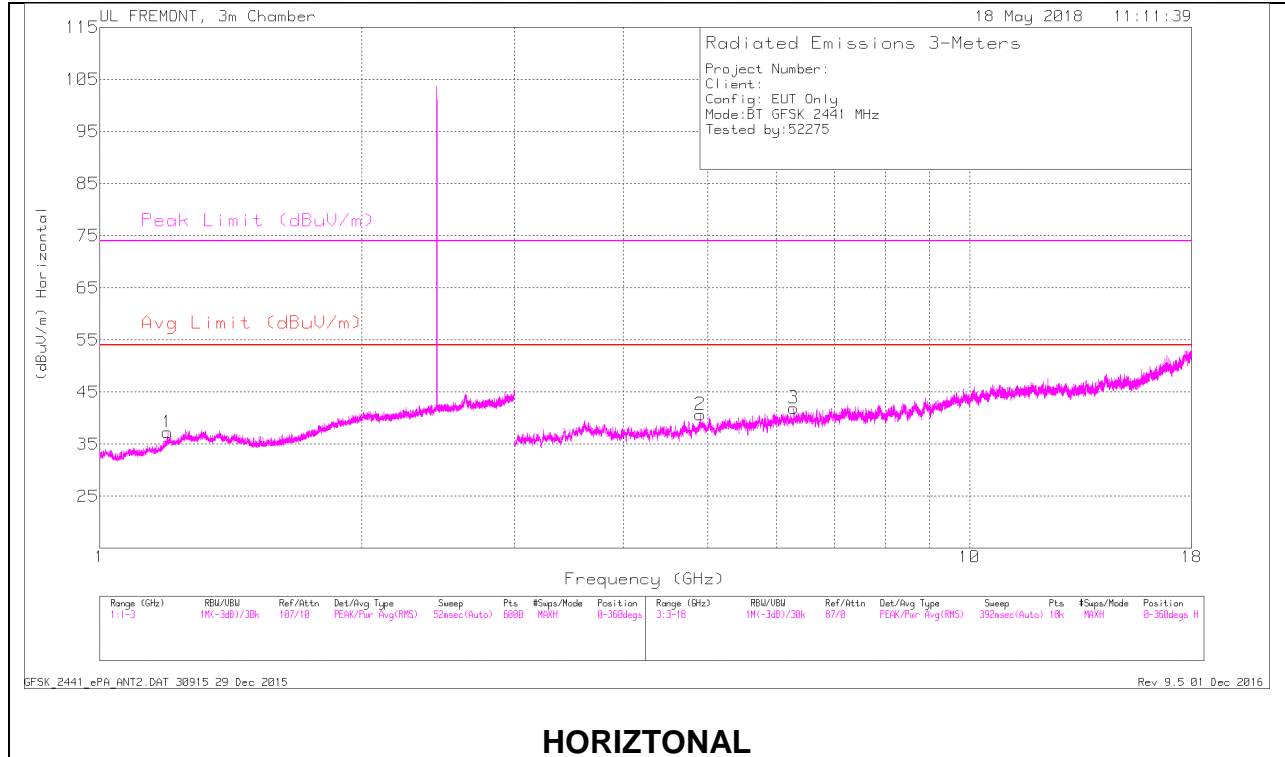
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.137	36.05	PKFH	27.8	-23	40.85	-	-	74	-33.15	199	108	H
	1.139	24.11	VA1T	27.8	-23	28.91	54	-25.09	-	-	199	108	H
4	1.653	35.82	PKFH	28.6	-22.2	42.22	-	-	74	-31.78	227	216	V
2	3.419	38.36	PKFH	33.8	-27.8	44.36	-	-	74	-29.64	27	284	H
5	4.535	39.25	PKFH	34	-27.8	45.45	-	-	74	-28.55	0	244	V
	4.536	27.44	VA1T	34	-27.9	33.54	54	-20.46	-	-	0	244	V
3	5.731	38.03	PKFH	34.9	-25.8	47.13	-	-	74	-26.87	215	101	H
6	6.279	36.04	PKFH	35.5	-23.8	47.74	-	-	74	-26.26	332	145	V

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

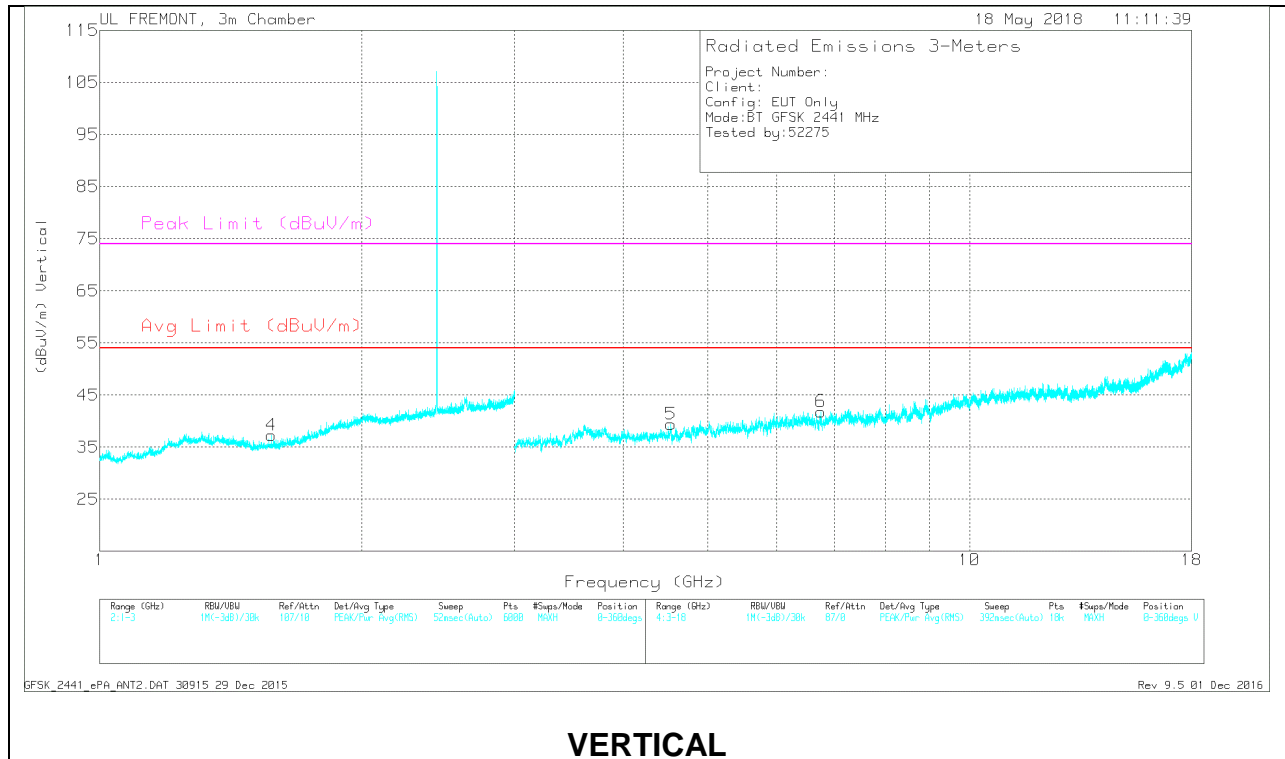
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

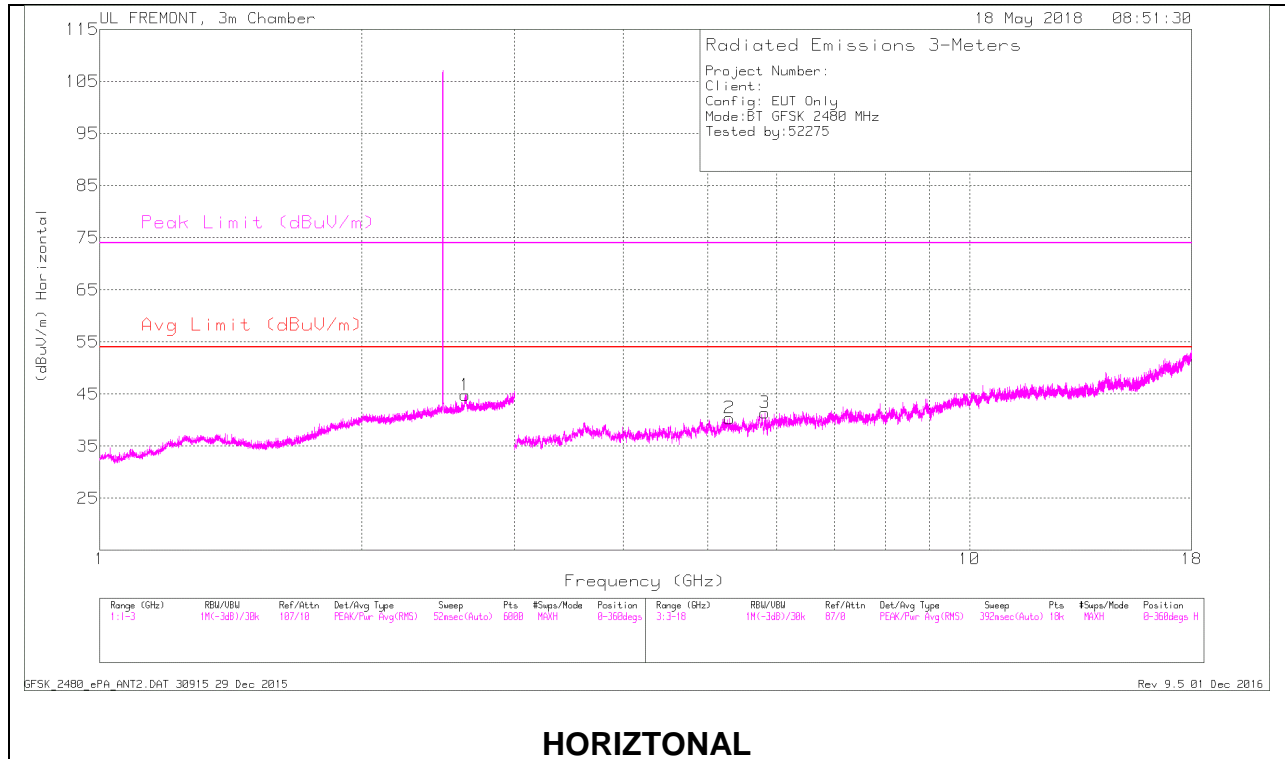
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cb/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.197	35.89	PKFH	28.9	-22.8	41.99	-	-	74	-32.01	160	134	H
	1.199	24.14	VA1T	28.9	-22.9	30.14	54	-23.86	-	-	160	134	H
4	1.576	36.4	PKFH	28	-22	42.4	-	-	74	-31.6	326	149	V
	1.578	24.07	VA1T	28	-22.1	29.97	54	-24.03	-	-	326	149	V
5	4.536	39.26	PKFH	34	-27.9	45.36	-	-	74	-28.64	168	102	V
	4.536	27.4	VA1T	34	-27.9	33.5	54	-20.5	-	-	168	102	V
2	4.905	38.28	PKFH	34	-26.4	45.88	-	-	74	-28.12	231	312	H
	4.905	26.72	VA1T	34	-26.4	34.32	54	-19.68	-	-	231	312	H
3	6.281	36.33	PKFH	35.6	-24.1	47.83	-	-	74	-26.17	84	100	H
6	6.751	35.89	PKFH	35.7	-24.3	47.29	-	-	74	-26.71	42	369	V

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

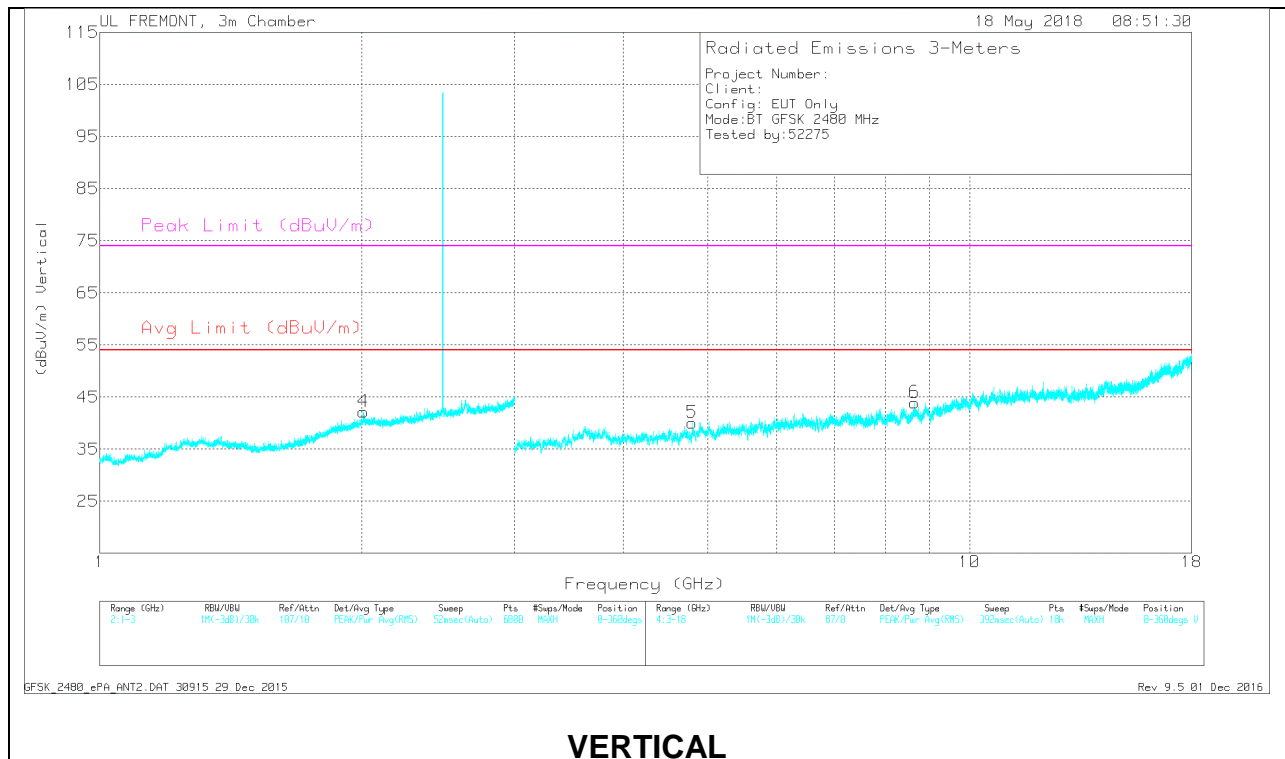
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Table	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.01	36.56	PKFH	31.8	-21.2	47.16	-	-	74	-26.84	271	272	V
1	2.63	37.92	PKFH	32.5	-20.3	50.12	-	-	74	-23.88	134	214	H
5	4.799	38.66	PKFH	34.1	-27.1	45.66	-	-	74	-28.34	174	233	V
	4.801	26.75	VA1T	34.1	-27	33.85	54	-20.15	-	-	174	233	V
2	5.298	38.82	PKFH	34.6	-27	46.42	-	-	74	-27.58	90	160	H
3	5.82	37.19	PKFH	35.1	-25.2	47.09	-	-	74	-26.91	196	167	H
6	8.646	35.23	PKFH	35.9	-21.3	49.83	-	-	74	-24.17	2	159	V

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

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

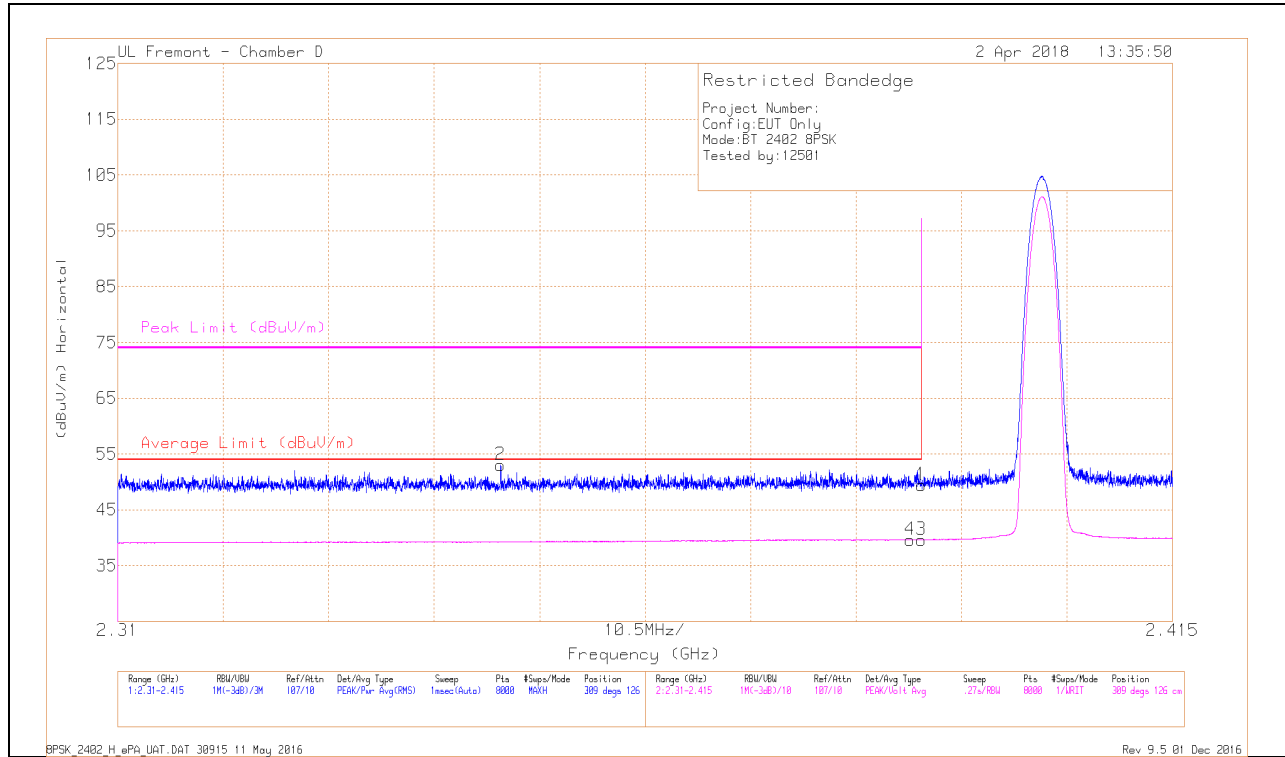
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.1.2. HIGH POWER ENCHANCED DATA RATE 8PSK MODULATION

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



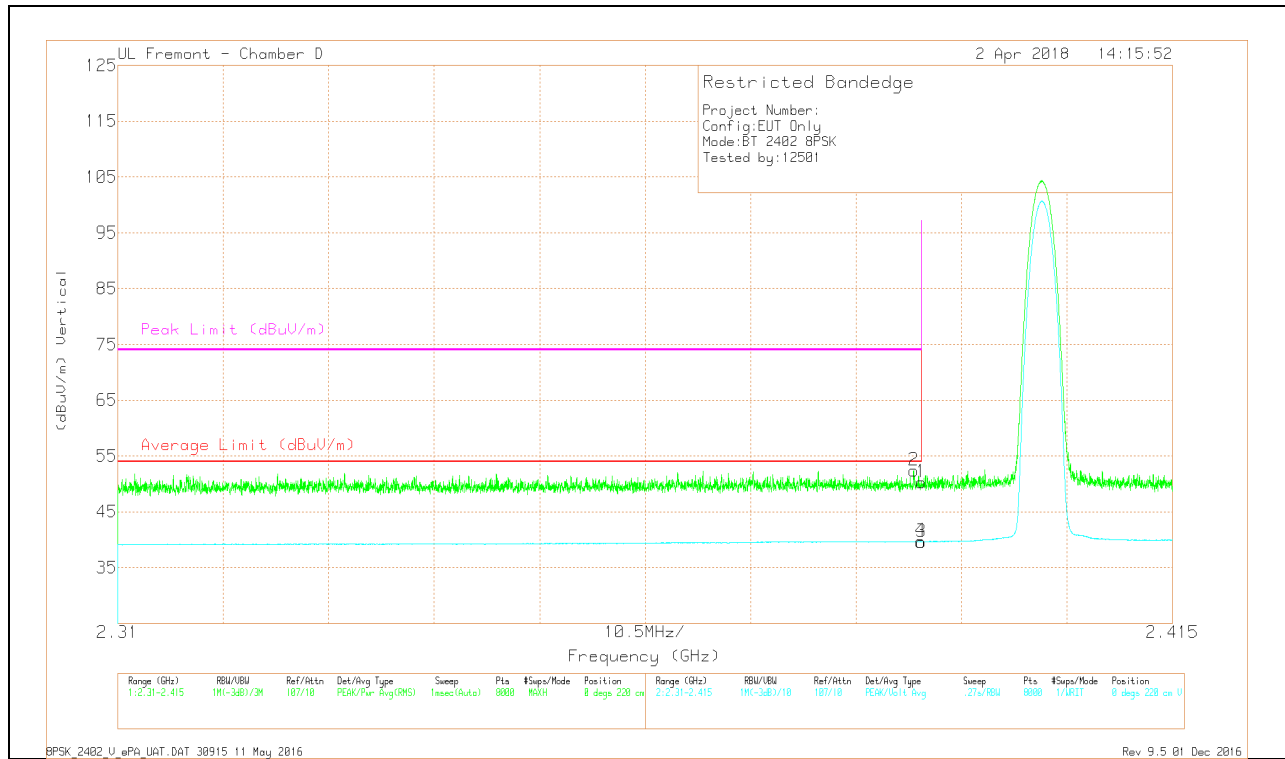
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.06	Pk	31.9	-20.5	49.46	-	-	74	-24.54	309	126	H
2	* 2.348	42.01	Pk	31.6	-20.6	53.01	-	-	74	-20.99	309	126	H
3	* 2.39	28.24	VA1T	31.9	-20.5	39.64	54	-14.36	-	-	309	126	H
4	* 2.389	28.26	VA1T	31.9	-20.5	39.66	54	-14.34	-	-	309	126	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

VERTICAL RESULT



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	38.84	Pk	31.9	-20.5	50.24	-	-	74	-23.76	0	220	V
2	* 2.389	41.05	Pk	31.9	-20.5	52.45	-	-	74	-21.55	0	220	V
3	* 2.39	28.25	VA1T	31.9	-20.5	39.65	54	-14.35	-	-	0	220	V
4	* 2.39	28.28	VA1T	31.9	-20.5	39.68	54	-14.32	-	-	0	220	V

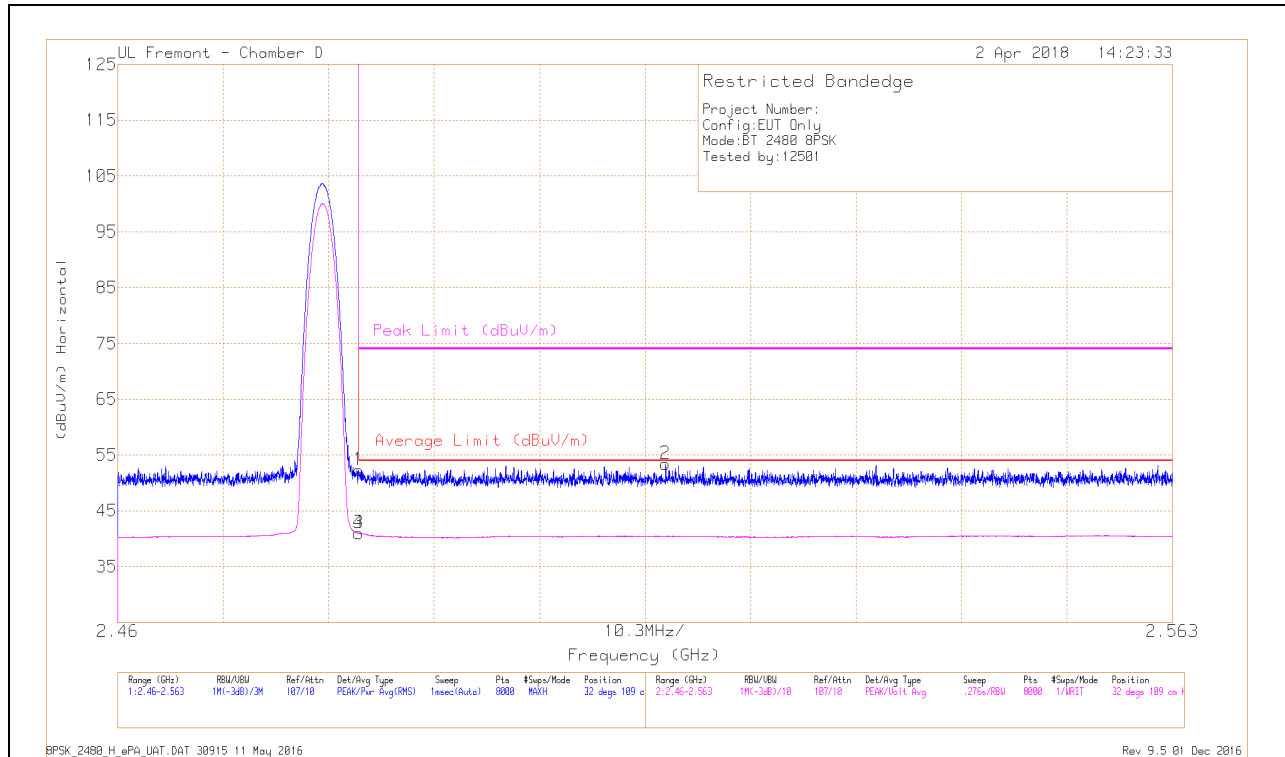
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



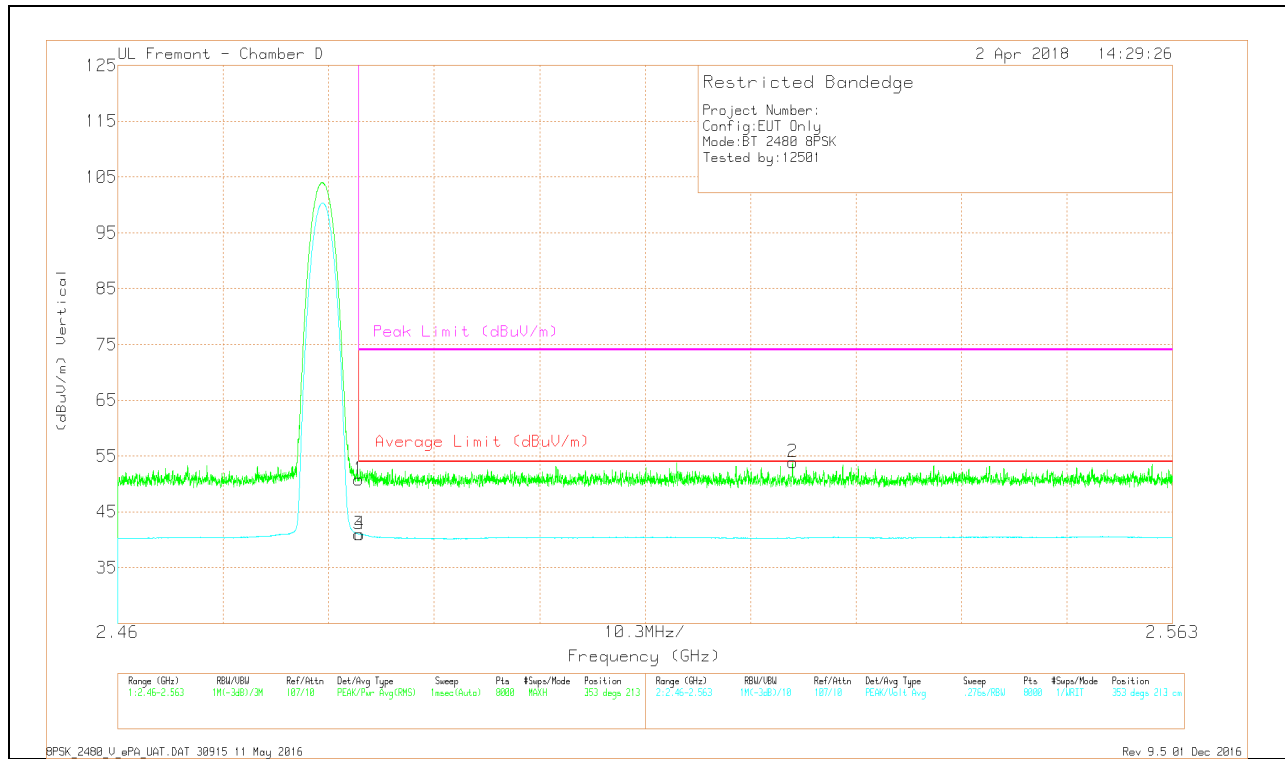
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.25	Pk	32.4	-20.4	52.25	-	-	74	-21.75	32	109	H
3	* 2.484	28.94	VA1T	32.4	-20.4	40.94	54	-13.06	-	-	32	109	H
4	* 2.484	28.95	VA1T	32.4	-20.4	40.95	54	-13.05	-	-	32	109	H
2	2.513	41.34	Pk	32.4	-20.3	53.44	-	-	74	-20.56	32	109	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

VERTICAL RESULT

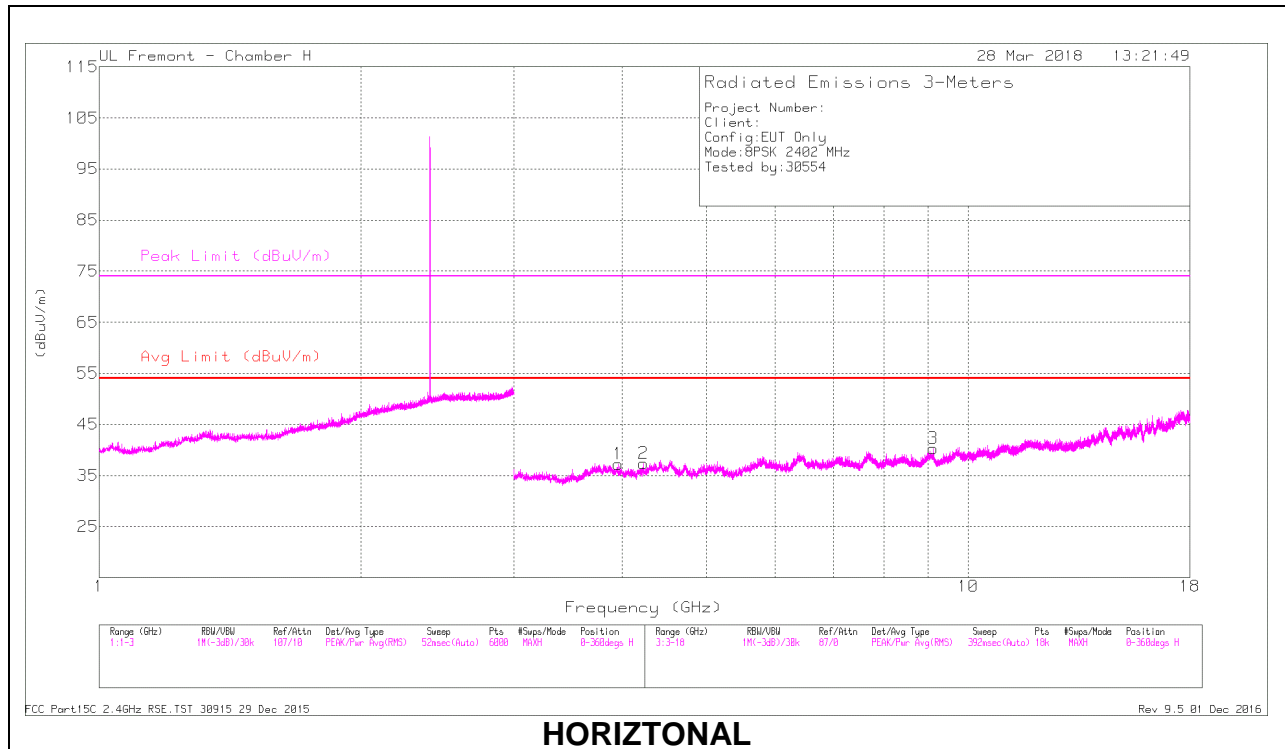


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.74	Pk	32.4	-20.4	50.74	-	-	74	-23.26	353	213	V
3	* 2.484	29	VA1T	32.4	-20.4	41	54	-13	-	-	353	213	V
4	* 2.484	29.1	VA1T	32.4	-20.5	41	54	-13	-	-	353	213	V
2	2.526	41.85	Pk	32.4	-20.4	53.85	-	-	74	-20.15	353	213	V

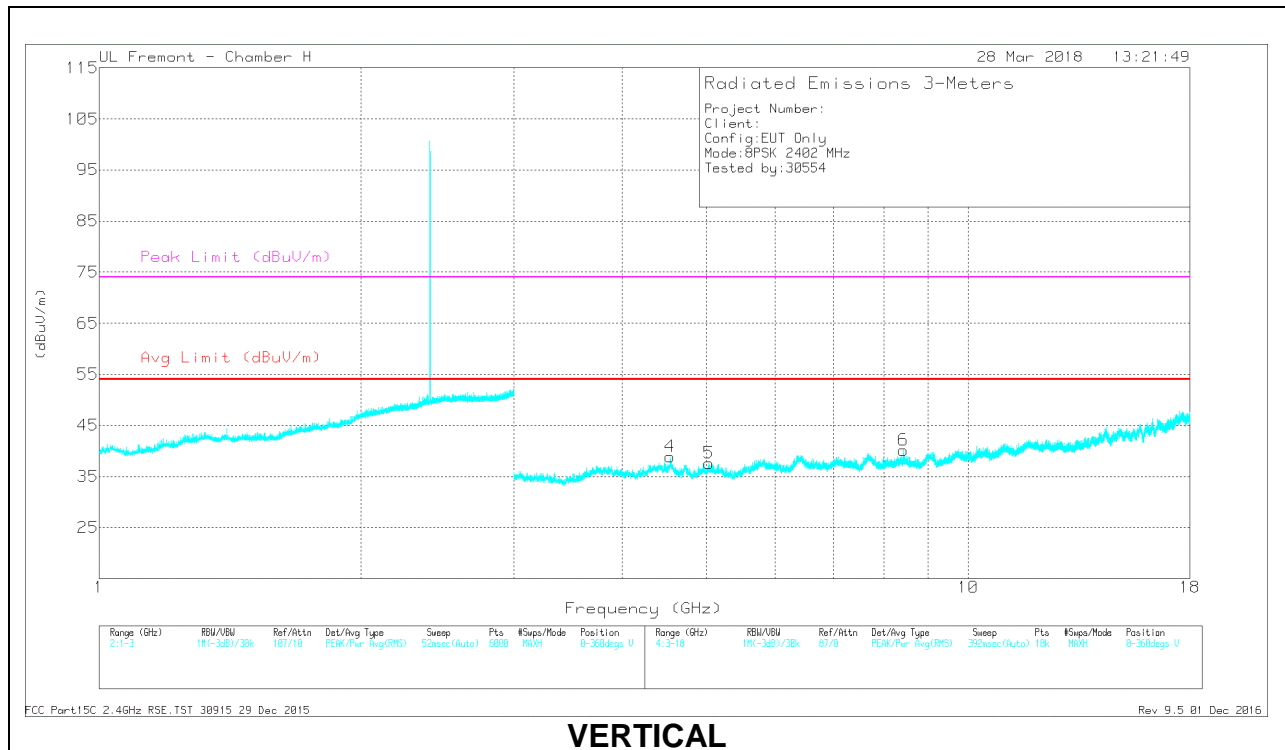
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

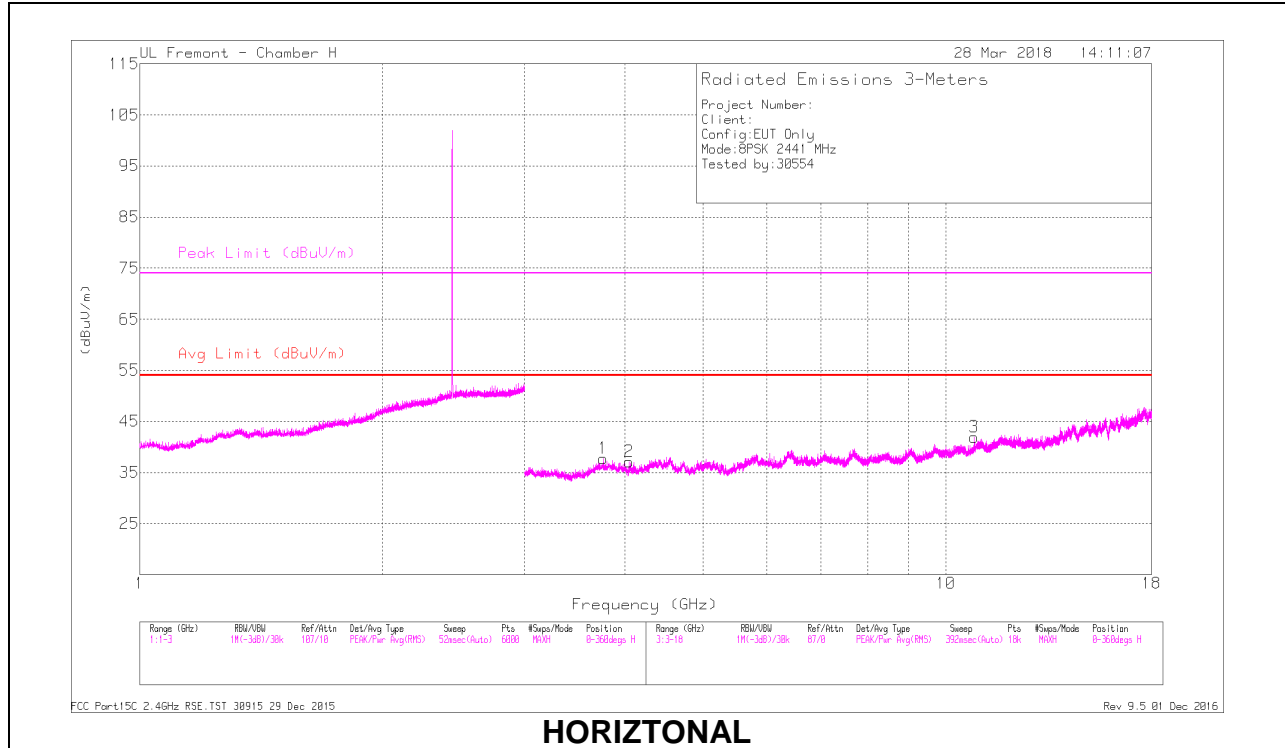
Markers	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.954	43.29	PKFH	33.5	-35	41.79	-	-	74	-32.21	94	159	H
	* 3.956	31.89	VA1T	33.5	-35.1	30.29	54	-23.71	-	-	94	159	H
2	* 4.229	43.57	PKFH	33.5	-35	42.07	-	-	74	-31.93	94	159	H
	* 4.228	31.95	VA1T	33.5	-35	30.45	54	-23.55	-	-	94	159	H
3	* 9.113	37.89	PKFH	36.6	-28.5	45.99	-	-	74	-28.01	61	225	H
	* 9.115	24.76	VA1T	36.6	-28.5	32.86	54	-21.14	-	-	61	225	H
4	* 4.539	43.62	PKFH	34.3	-34.7	43.22	-	-	74	-30.78	6	100	V
	* 4.539	32.21	VA1T	34.3	-34.7	31.81	54	-22.19	-	-	6	100	V
5	* 5.03	42.28	PKFH	34.1	-33.5	42.88	-	-	74	-31.12	291	356	V
	* 5.03	30.64	VA1T	34.1	-33.5	31.24	54	-22.76	-	-	291	356	V
6	* 8.43	37.76	PKFH	36	-29.2	44.56	-	-	74	-29.44	18	295	V
	* 8.43	25.66	VA1T	36	-29.2	32.46	54	-21.54	-	-	18	295	V

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

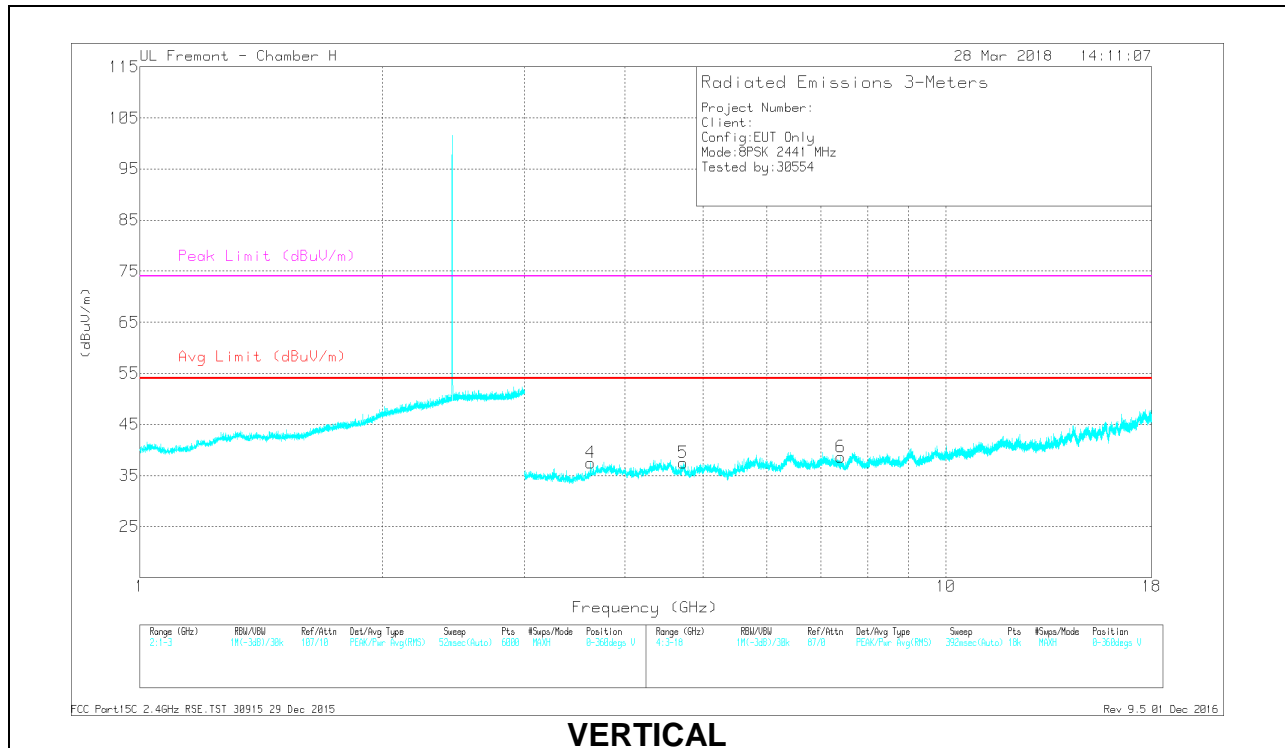
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

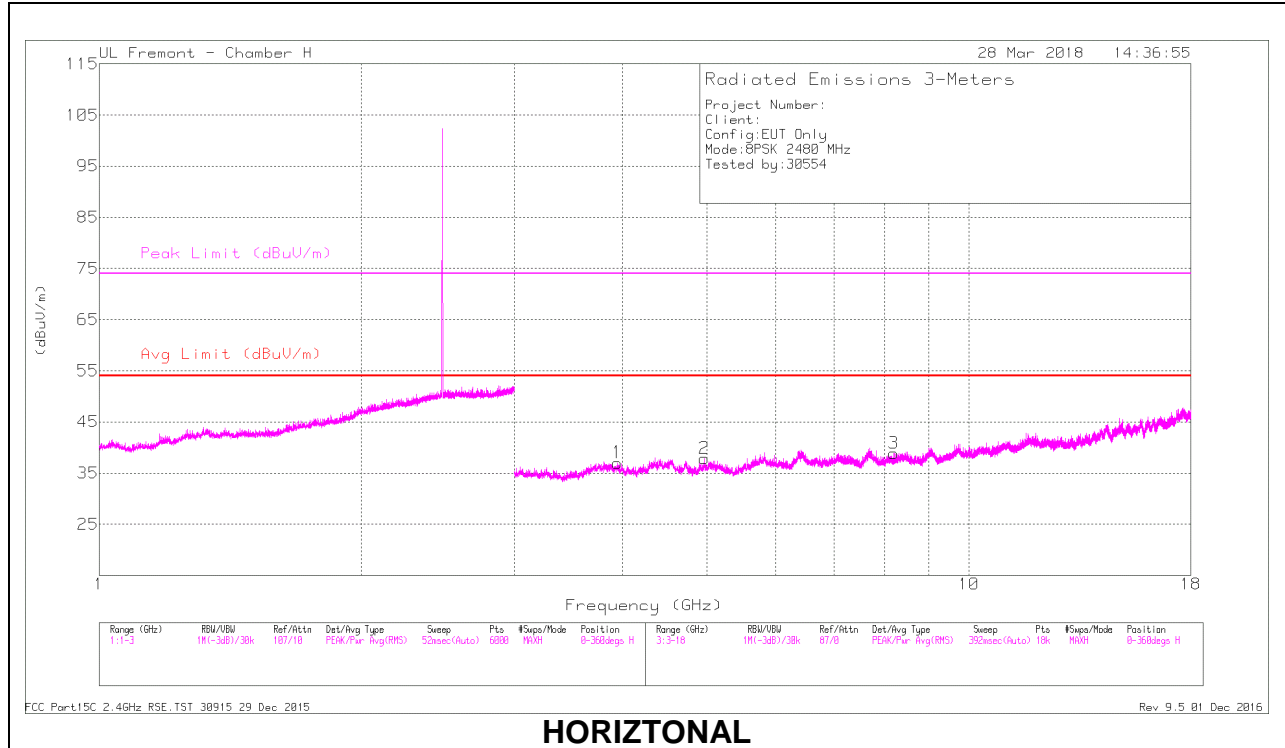
Makers	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.76	45.49	PKFH	33.1	-35	43.59	-	-	74	-30.41	36	221	H
	* 3.761	32.93	VA1T	33.1	-35	31.03	54	-22.97	-	-	36	221	H
2	* 4.048	42.77	PKFH	33.5	-34.5	41.77	-	-	74	-32.23	225	135	H
	* 4.045	31.21	VA1T	33.5	-34.6	30.11	54	-23.89	-	-	225	135	H
3	* 10.851	36.17	PKFH	37.7	-27.1	46.77	-	-	74	-27.23	56	184	H
	* 10.852	24.27	VA1T	37.7	-27.1	34.87	54	-19.13	-	-	56	184	H
4	* 3.628	44.28	PKFH	33.1	-35.3	42.08	-	-	74	-31.92	79	364	V
	* 3.624	32.58	VA1T	33.1	-35.3	30.38	54	-23.62	-	-	79	364	V
5	* 4.721	41.27	PKFH	34.1	-33.9	41.47	-	-	74	-32.53	182	259	V
	* 4.718	29.87	VA1T	34.1	-33.8	30.17	54	-23.83	-	-	182	259	V
6	* 7.409	38.86	PKFH	35.9	-30.5	44.26	-	-	74	-29.74	164	200	V
	* 7.409	26.15	VA1T	35.9	-30.5	31.55	54	-22.45	-	-	164	200	V

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

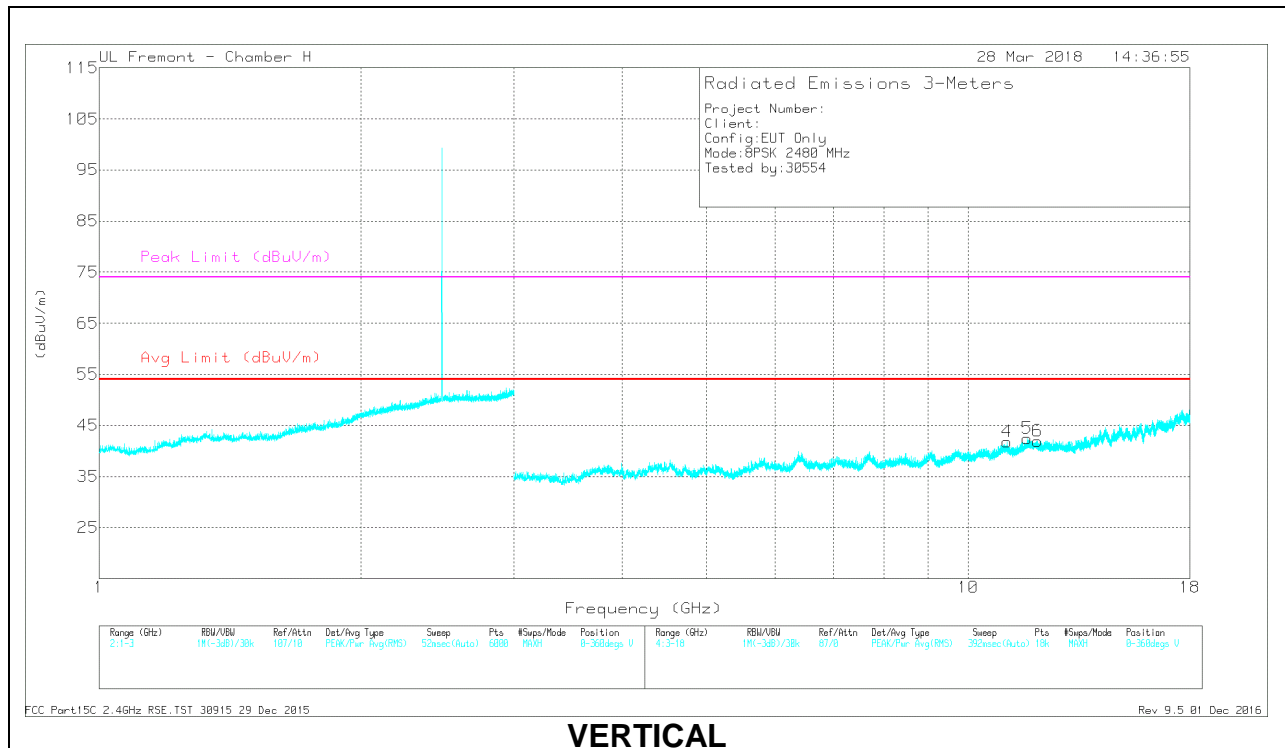
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Markers	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	* 3.948	44.16	PKFH	33.5	-35	42.66	-	-	74	-31.34	36	118	H
	* 3.947	32.2	VA1T	33.5	-35	30.7	54	-23.3	-	-	36	118	H
2	* 4.963	42.08	PKFH	34.1	-33.7	42.48	-	-	74	-31.52	356	188	H
	* 4.962	30.54	VA1T	34.1	-33.7	30.94	54	-23.06	-	-	356	188	H
3	* 8.191	38.09	PKFH	36.2	-30.1	44.19	-	-	74	-29.81	325	156	H
	* 8.189	26.13	VA1T	36.2	-30.1	32.23	54	-21.77	-	-	325	156	H
4	* 11.094	35.92	PKFH	38.3	-26.9	47.32	-	-	74	-26.68	311	136	V
	* 11.095	23.85	VA1T	38.3	-26.9	35.25	54	-18.75	-	-	311	136	V
5	* 11.69	34.6	PKFH	38.7	-25.9	47.4	-	-	74	-26.6	226	193	V
	* 11.69	23.22	VA1T	38.7	-25.9	36.02	54	-17.98	-	-	226	193	V
6	* 12.028	34.11	PKFH	39.3	-25.9	47.51	-	-	74	-26.49	356	154	V
	* 12.029	22.53	VA1T	39.3	-25.9	35.93	54	-18.07	-	-	356	154	V

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

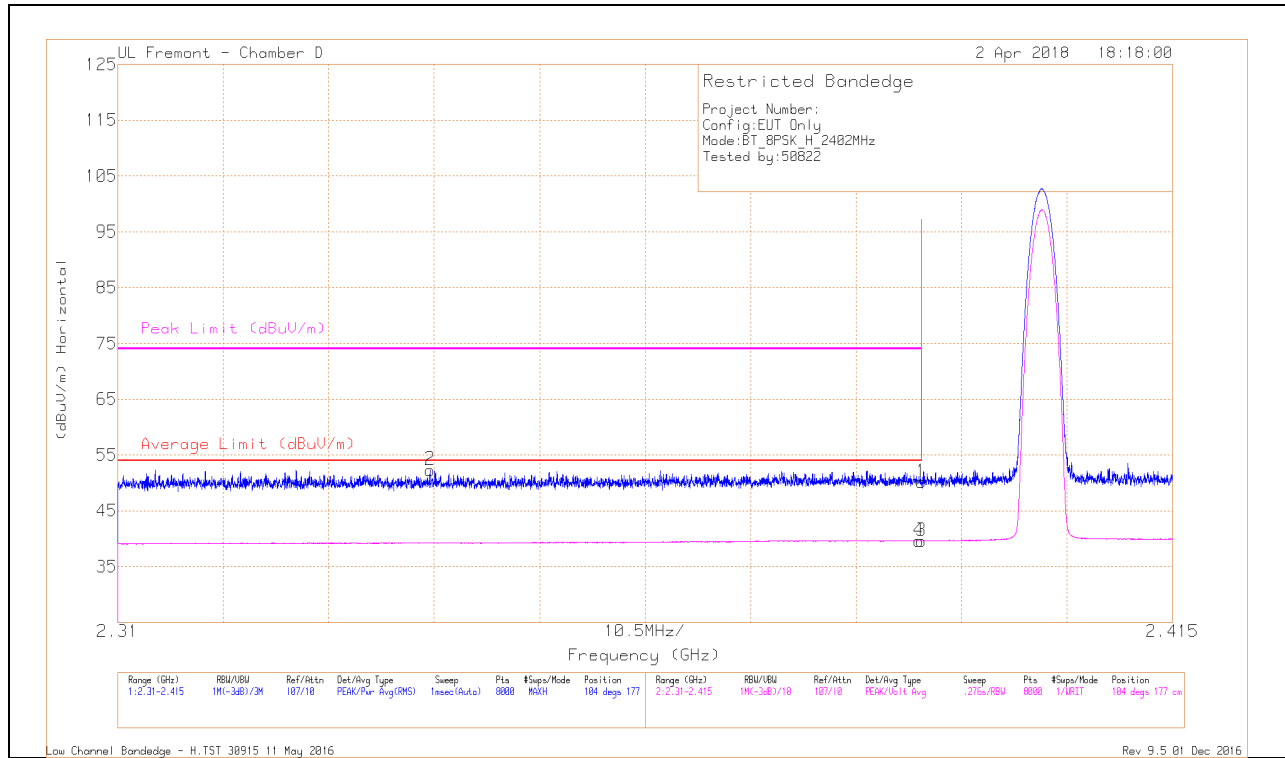
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

Antenna 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	38.74	Pk	31.9	-20.5	50.14	-	-	74	-23.86	104	177	H
2	* 2.341	41.34	Pk	31.6	-20.6	52.34	-	-	74	-21.66	104	177	H
3	* 2.39	28.24	VA1T	31.9	-20.5	39.64	54	-14.36	-	-	104	177	H
4	* 2.39	28.26	VA1T	31.9	-20.5	39.66	54	-14.34	-	-	104	177	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

VERTICAL RESULT

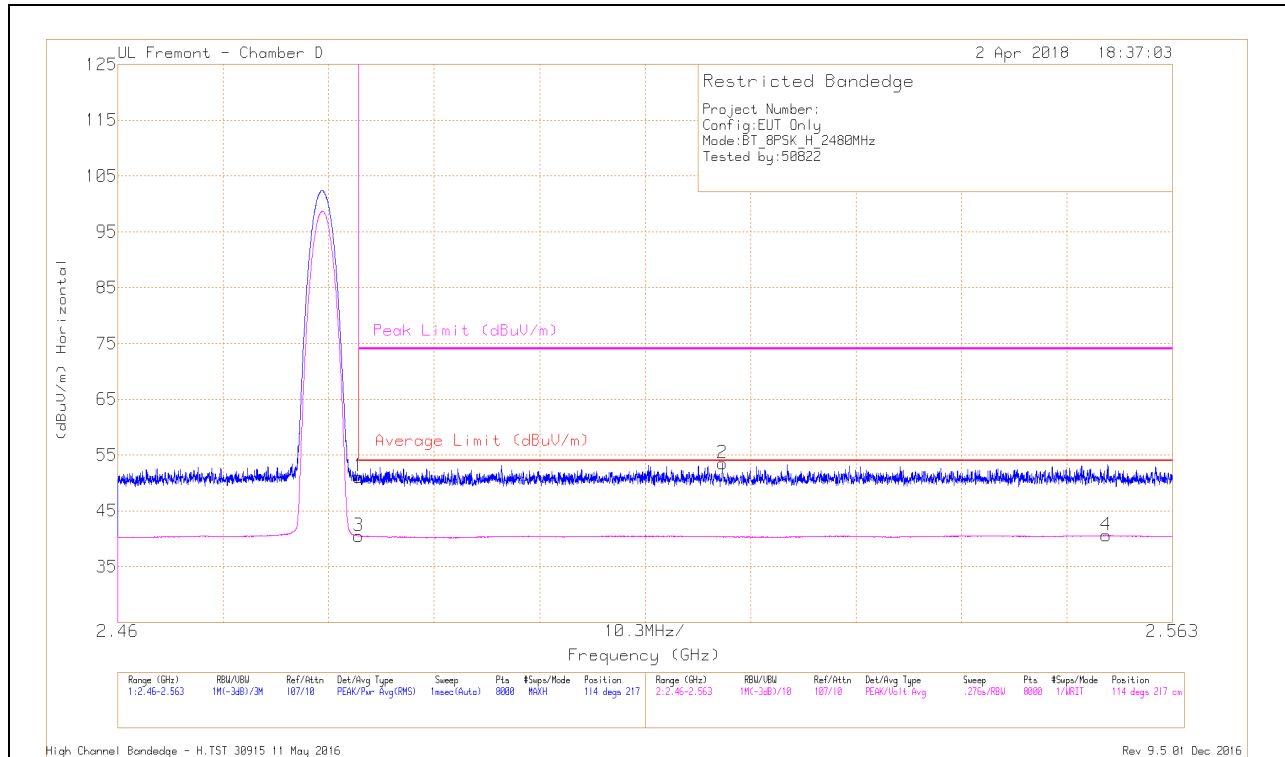


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.61	Pk	31.9	-20.5	49.01	-	-	74	-24.99	177	121	V
2	* 2.372	41.23	Pk	31.8	-20.6	52.43	-	-	74	-21.57	177	121	V
3	* 2.39	28.2	VA1T	31.9	-20.5	39.6	54	-14.4	-	-	177	121	V
4	* 2.389	28.23	VA1T	31.9	-20.5	39.63	54	-14.37	-	-	177	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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



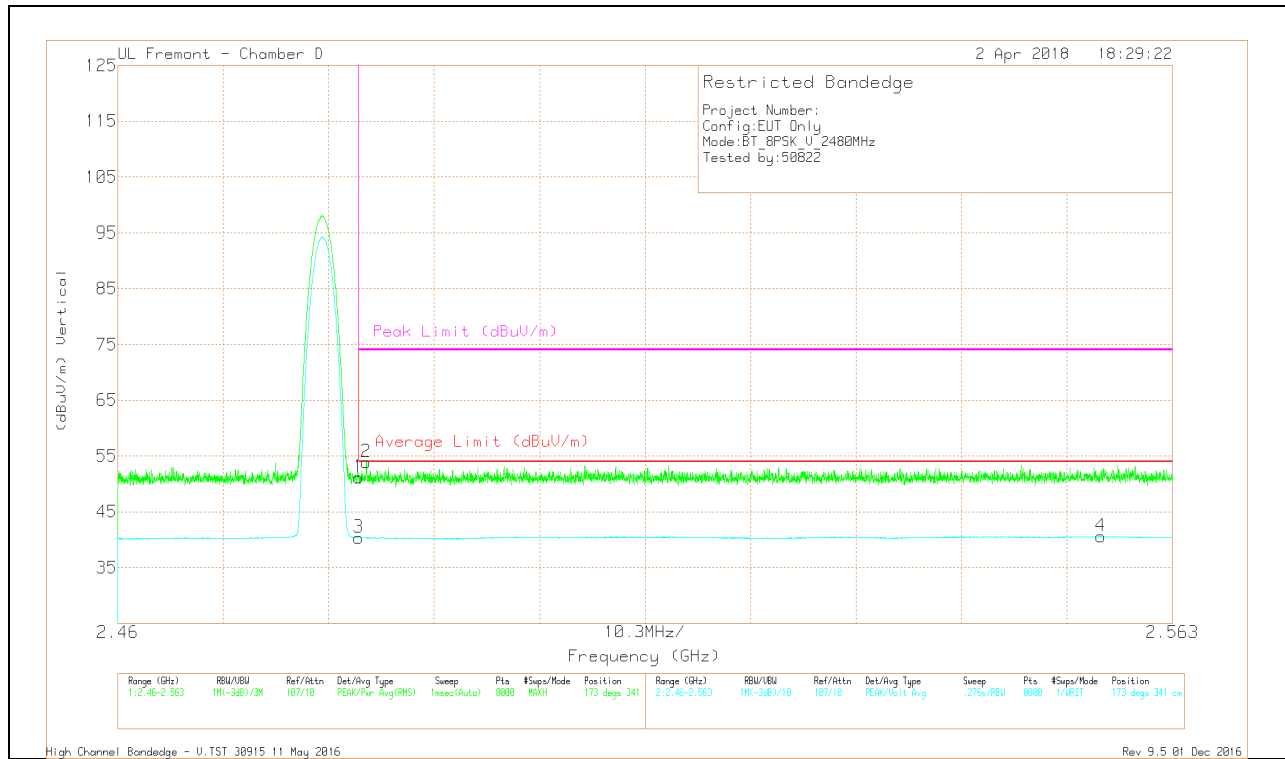
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.1	Pk	32.4	-20.4	51.1	-	-	74	-22.9	114	217	H
3	* 2.484	28.47	VA1T	32.4	-20.4	40.47	54	-13.53	-	-	114	217	H
2	2.519	41.48	Pk	32.4	-20.4	53.48	-	-	74	-20.52	114	217	H
4	2.557	28.3	VA1T	32.5	-20.2	40.6	54	-13.4	-	-	114	217	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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/P ad (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	39.18	Pk	32.4	-20.4	51.18	-	-	74	-22.82	173	341	V
2	* 2.484	42.02	Pk	32.4	-20.5	53.92	-	-	74	-20.08	173	341	V
3	* 2.484	28.34	VA1T	32.4	-20.4	40.34	54	-13.66	-	-	173	341	V
4	2.556	28.38	VA1T	32.5	-20.3	40.58	54	-13.42	-	-	173	341	V

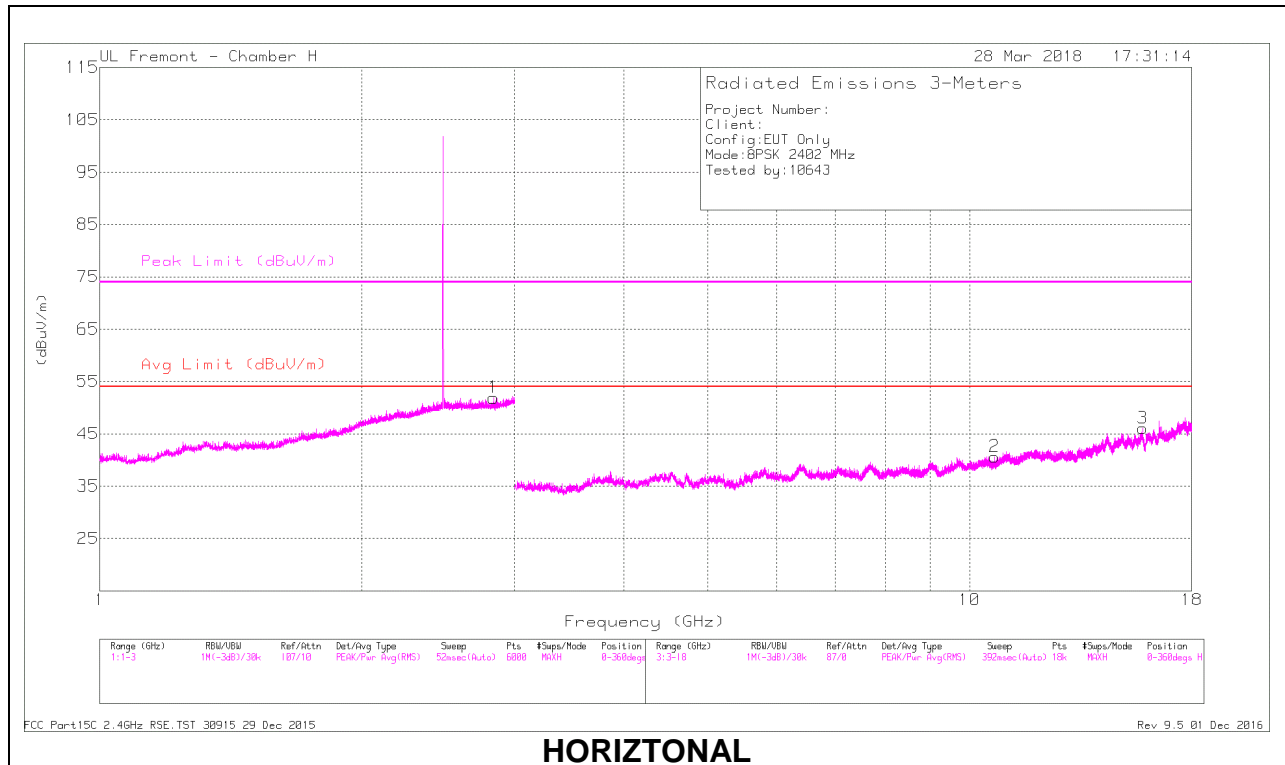
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

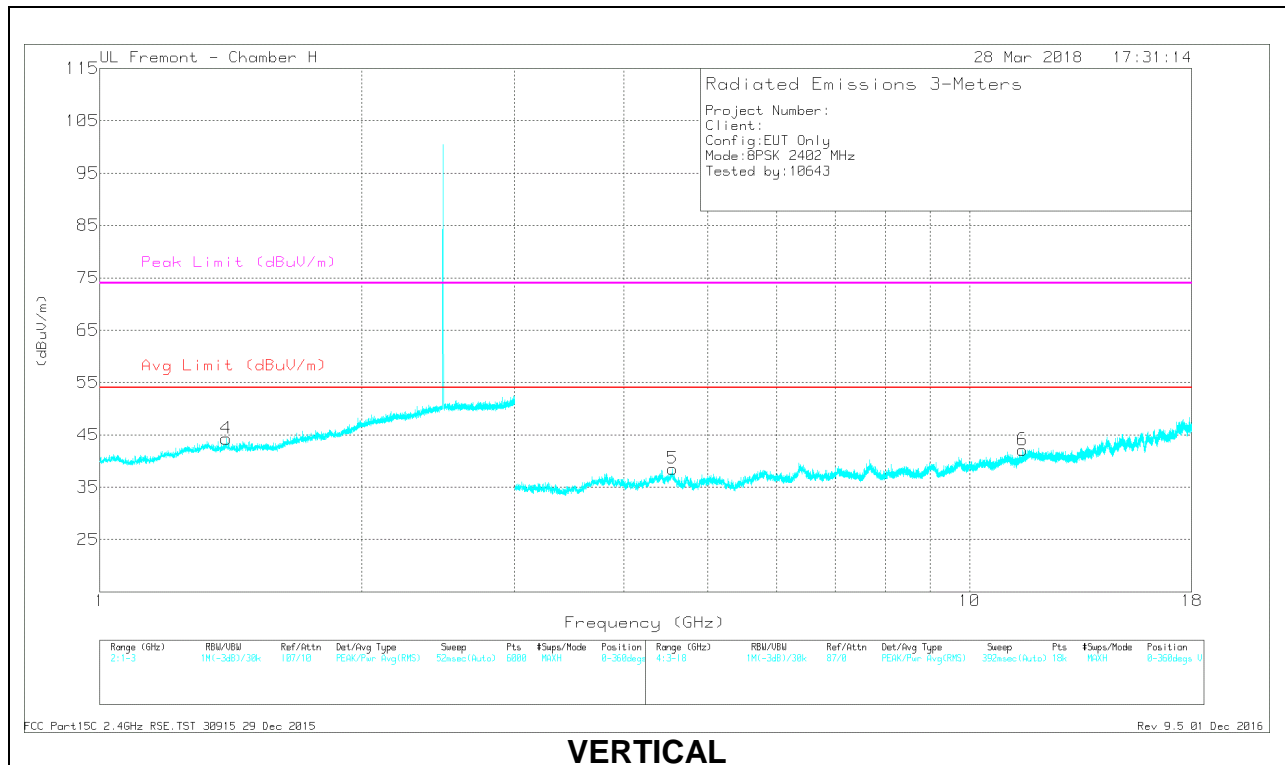
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

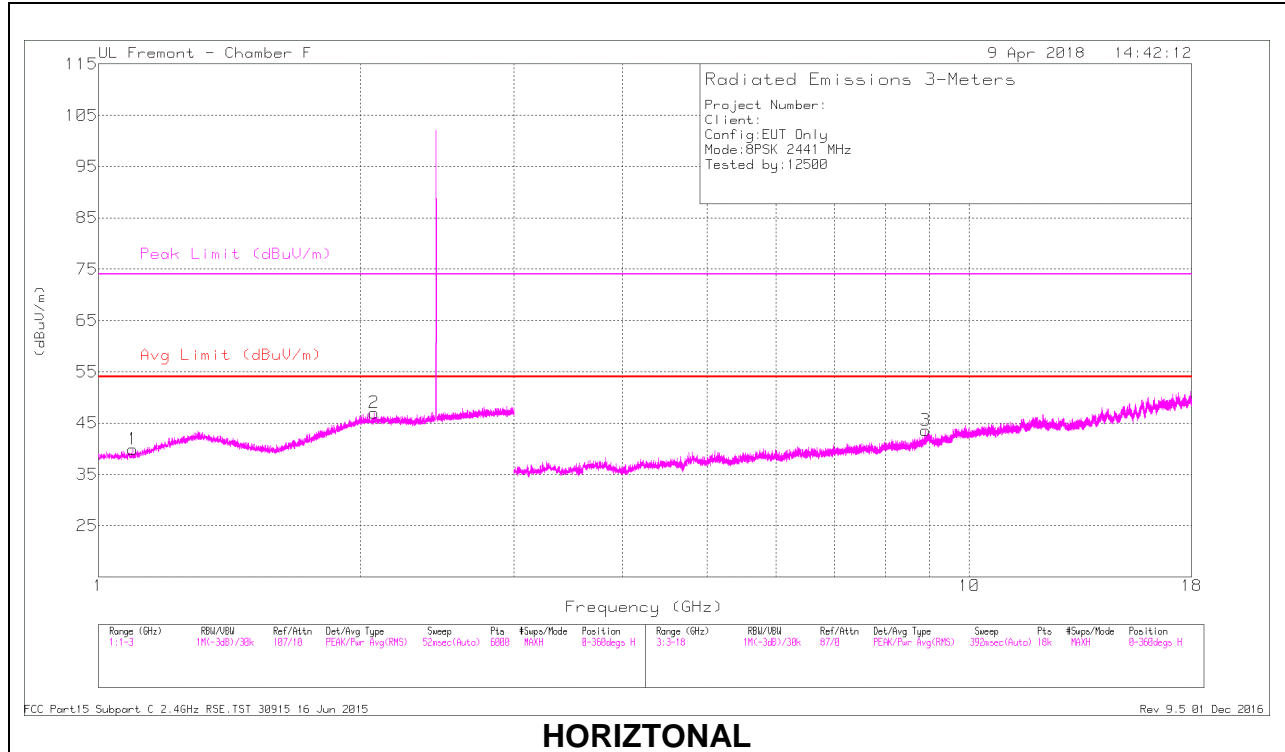
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.836	36.88	PKFH	32.5	-13.7	55.68	-	-	74	-18.32	240	122	H
	* 2.834	24.99	VA1T	32.5	-13.7	43.79	54	-10.21	-	-	240	122	H
4	* 1.398	35.52	PKFH	28.8	-15.6	48.72	-	-	74	-25.28	356	237	V
	* 1.396	23.93	VA1T	28.8	-15.7	37.03	54	-16.97	-	-	356	237	V
2	* 10.675	36.6	PKFH	37.6	-27.4	46.8	-	-	74	-27.2	199	390	H
	* 10.675	24.26	VA1T	37.6	-27.4	34.46	54	-19.54	-	-	199	390	H
3	* 15.821	33.71	PKFH	41.9	-23.9	51.71	-	-	74	-22.29	277	309	H
	* 15.821	21.94	VA1T	41.9	-23.9	39.94	54	-14.06	-	-	277	309	H
5	* 4.552	43.52	PKFH	34.3	-34.7	43.12	-	-	74	-30.88	59	208	V
	* 4.553	32.16	VA1T	34.3	-34.6	31.86	54	-22.14	-	-	59	208	V
6	* 11.505	36.3	PKFH	38.4	-26.3	48.4	-	-	74	-25.6	13	299	V
	* 11.505	23.44	VA1T	38.4	-26.3	35.54	54	-18.46	-	-	13	299	V

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

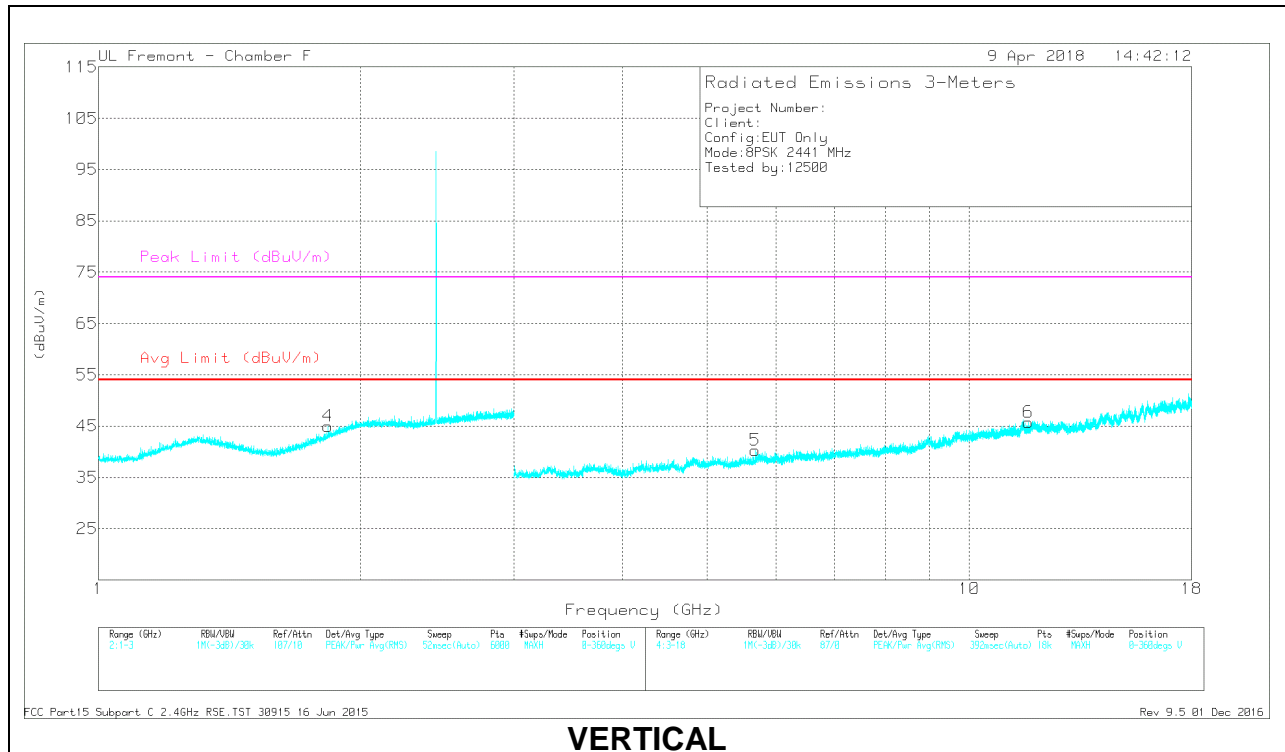
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

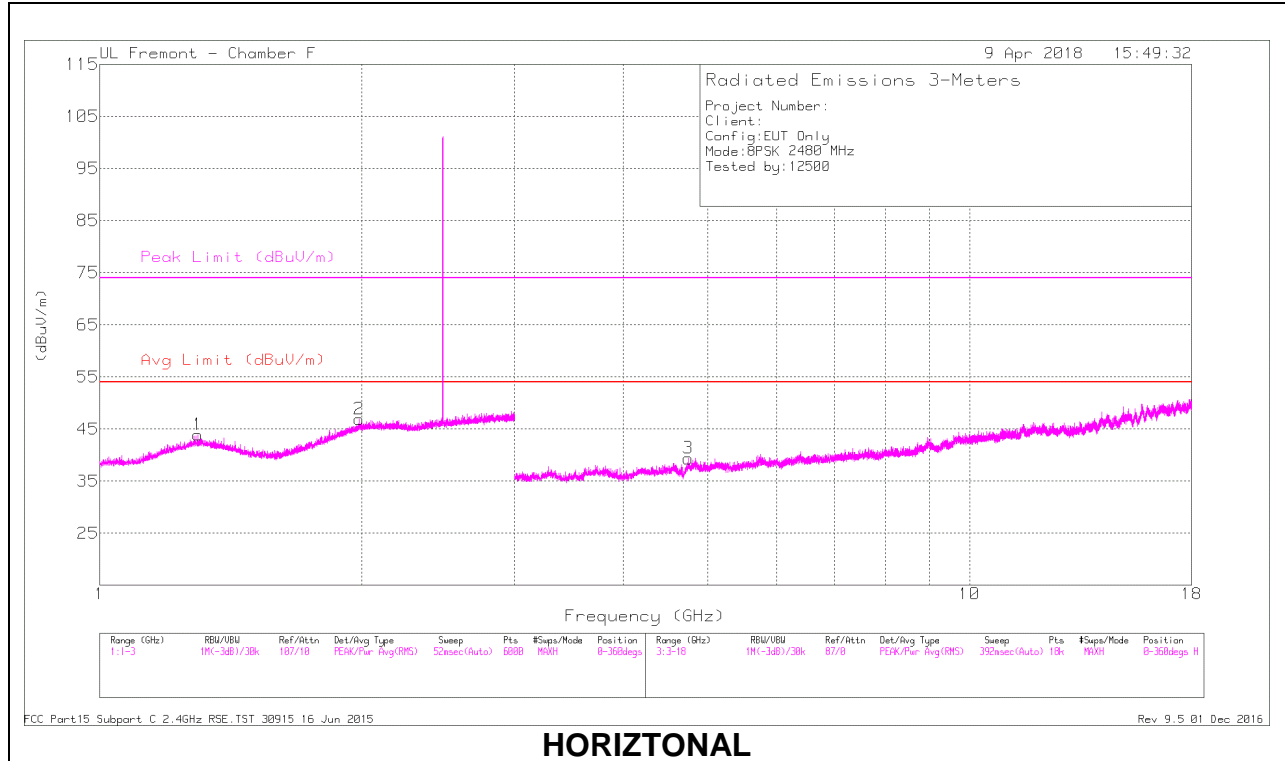
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.097	41.74	PKFH	26.8	-22.5	46.04	-	-	74	-27.96	322	208	H
	* 1.094	29.06	VA1T	26.8	-22.5	33.36	54	-20.64	-	-	322	208	H
2	2.073	41.21	PKFH	32.3	-21.1	52.41	-	-	-	-	123	378	H
4	1.835	42.13	PKFH	30.3	-21.1	51.33	-	-	-	-	48	341	V
3	8.91	34.62	PKFH	36.6	-23.2	48.02	-	-	-	-	173	305	H
6	* 11.68	33.69	PKFH	38.8	-21.9	50.59	-	-	74	-23.41	266	183	V
	* 11.68	22.37	VA1T	38.8	-22	39.17	54	-14.83	-	-	266	183	V
5	5.679	36.34	PKFH	34.9	-26.8	44.44	-	-	-	-	164	129	V

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

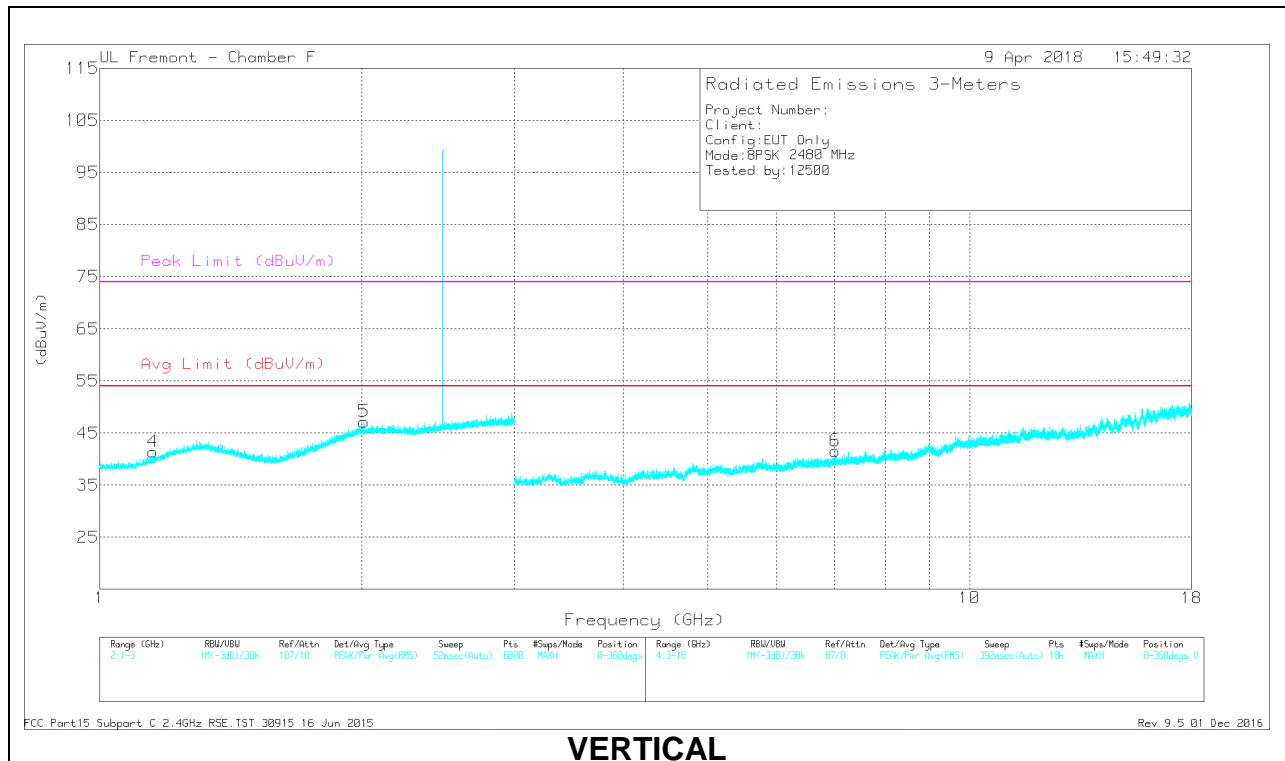
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.296	40.62	PKFH	30.1	-22	48.72	-	-	74	-25.28	217	201	H
	* 1.298	28.89	VA1T	30.1	-22	36.99	54	-17.01	-	-	217	201	H
2	1.985	41.48	PKFH	32.2	-21.1	52.58	-	-	-	-	327	201	H
4	* 1.152	40.49	PKFH	27.9	-22.4	45.99	-	-	74	-28.01	180	101	V
	* 1.152	29.05	VA1T	27.9	-22.4	34.55	54	-19.45	-	-	180	101	V
5	2.013	40.45	PKFH	32.3	-21	51.75	-	-	-	-	50	131	V
3	* 4.752	37.8	PKFH	34.1	-27.6	44.3	-	-	74	-29.7	71	201	H
	* 4.751	26.64	VA1T	34.1	-27.5	33.24	54	-20.76	-	-	71	201	H
6	7.005	36.19	PKFH	35.8	-25.6	46.39	-	-	-	-	261	381	V

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

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

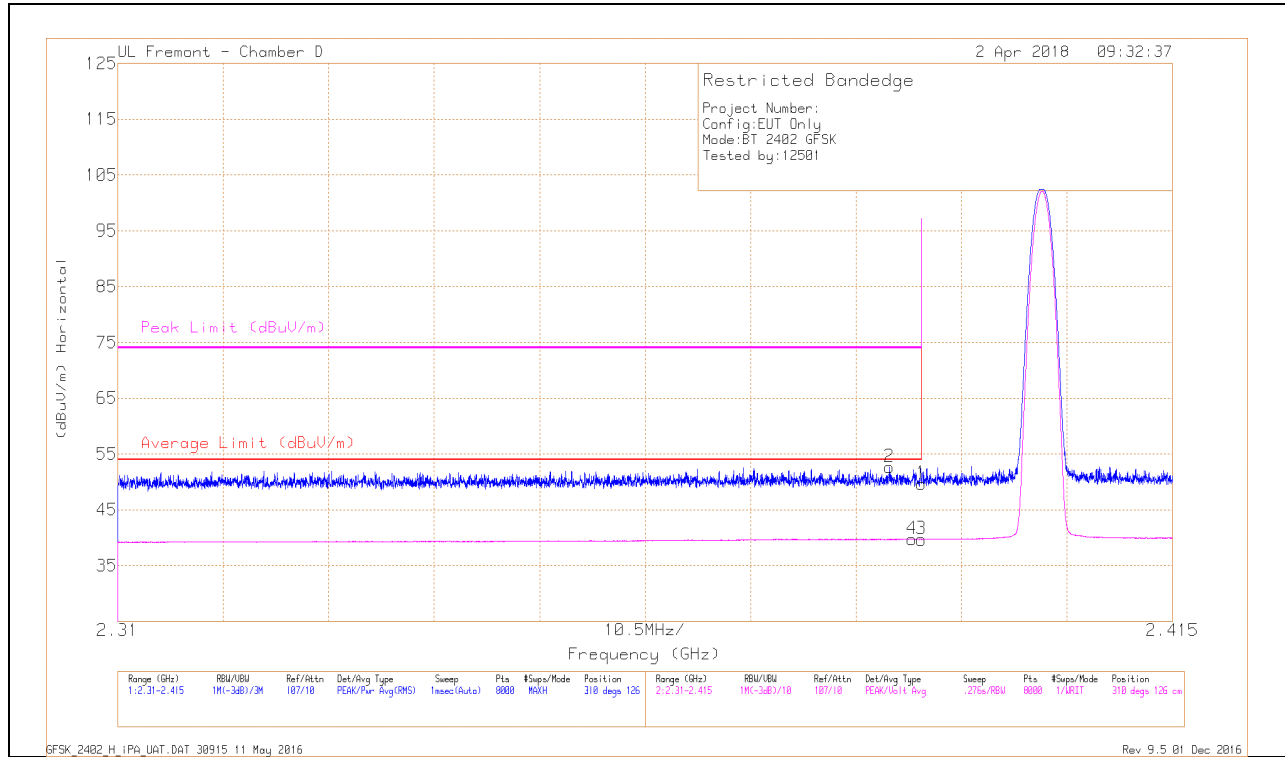
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.1.3. LOW POWER BASIC DATA RATE GFSK MODULATION

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



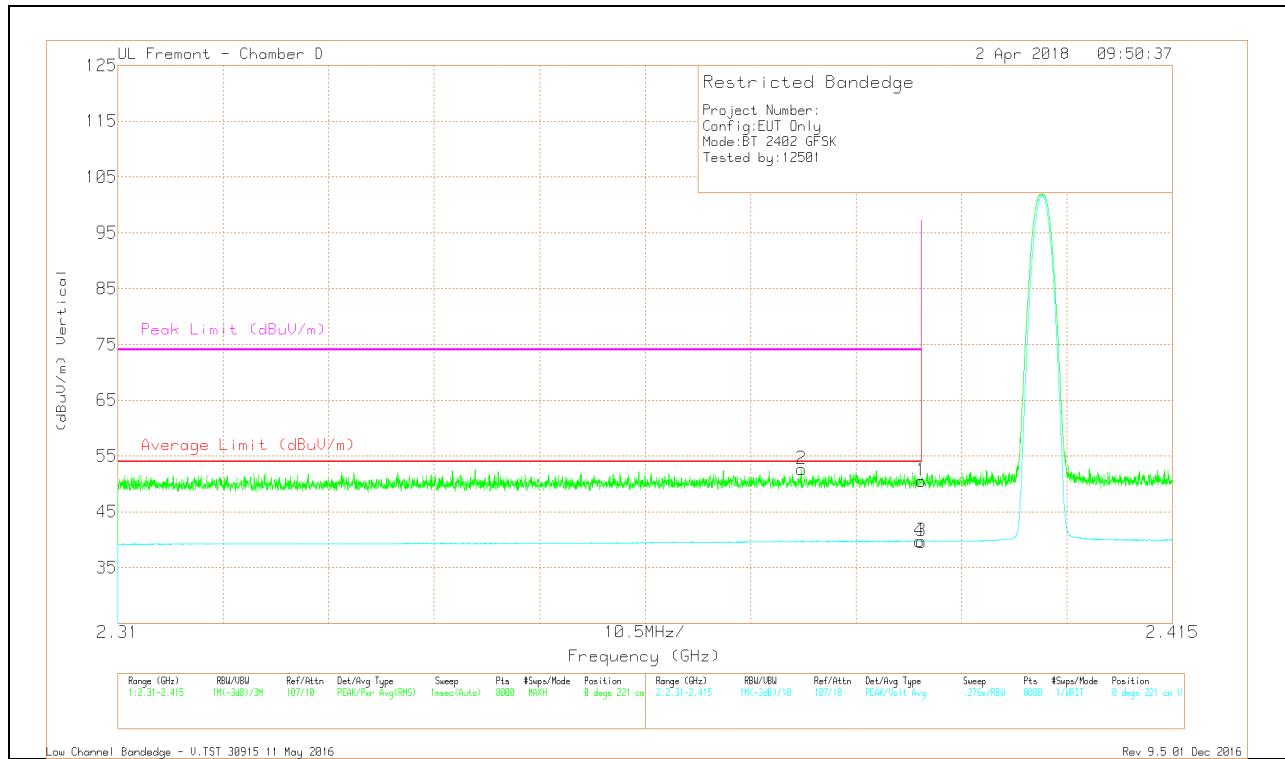
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.23	Pk	31.9	-20.5	49.63	-	-	74	-24.37	310	126	H
2	* 2.387	41.28	Pk	31.9	-20.5	52.68	-	-	74	-21.32	310	126	H
3	* 2.39	28.28	VA1T	31.9	-20.5	39.68	54	-14.32	-	-	310	126	H
4	* 2.389	28.36	VA1T	31.9	-20.5	39.76	54	-14.24	-	-	310	126	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

VERTICAL RESULT

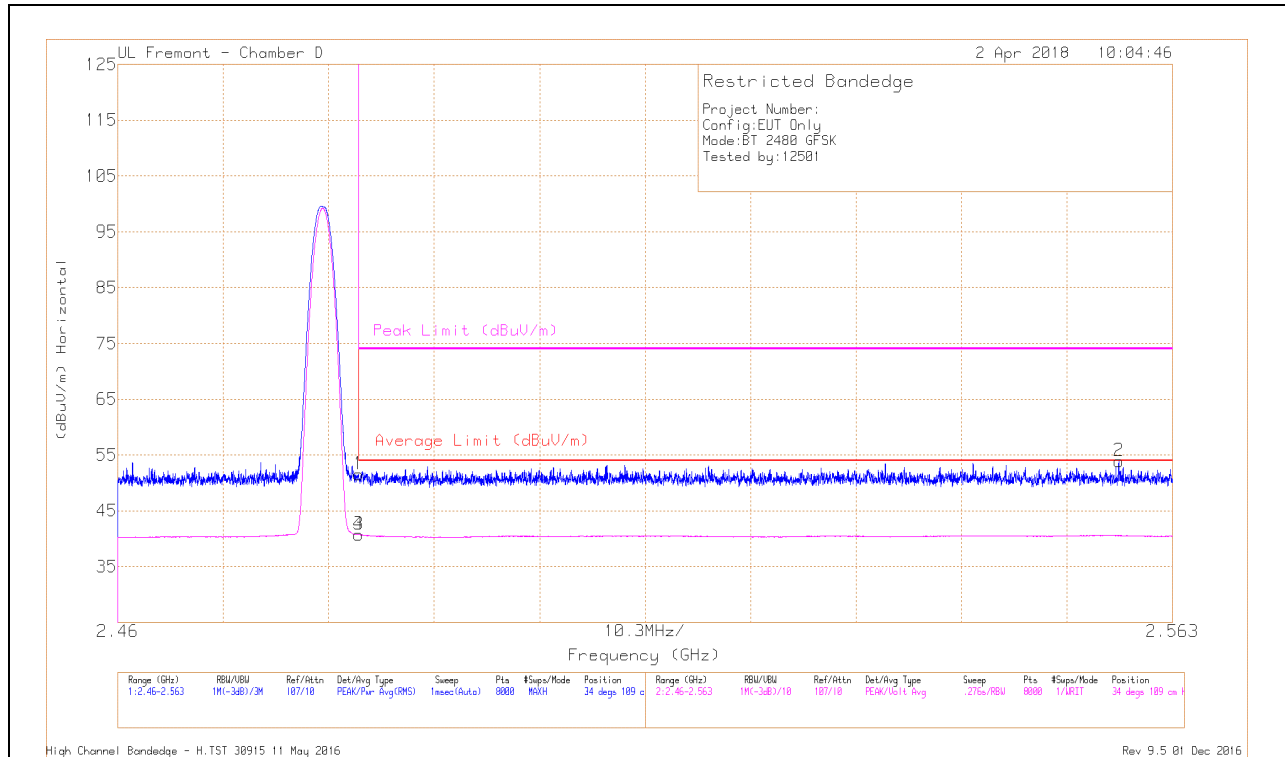


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.16	Pk	31.9	-20.5	50.56	-	-	74	-23.44	0	221	V
2	* 2.378	41.24	Pk	31.8	-20.4	52.64	-	-	74	-21.36	0	221	V
3	* 2.39	28.28	VA1T	31.9	-20.5	39.68	54	-14.32	-	-	0	221	V
4	* 2.39	28.35	VA1T	31.9	-20.5	39.75	54	-14.25	-	-	0	221	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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



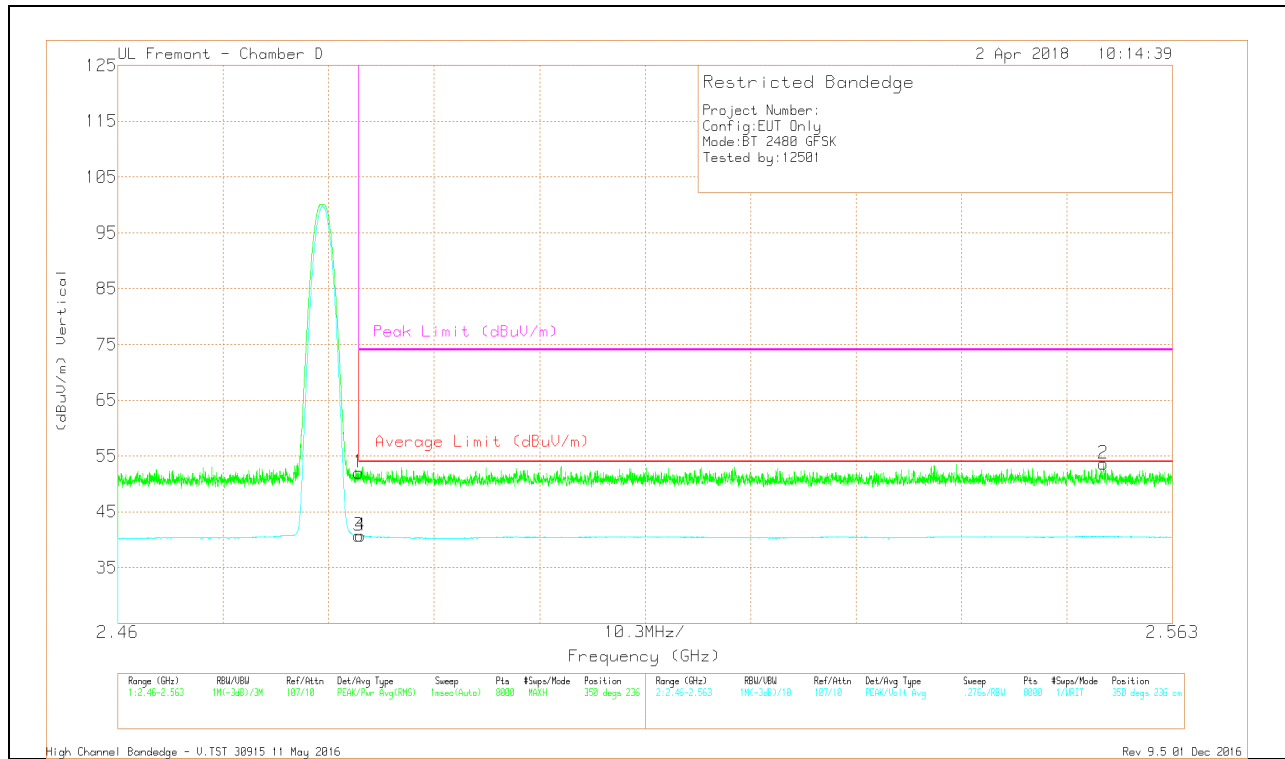
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.52	Pk	32.4	-20.4	51.52	-	-	74	-22.48	34	109	H
3	* 2.484	28.72	VA1T	32.4	-20.4	40.72	54	-13.28	-	-	34	109	H
4	* 2.484	28.75	VA1T	32.4	-20.4	40.75	54	-13.25	-	-	34	109	H
2	2.558	41.66	Pk	32.5	-20.3	53.86	-	-	74	-20.14	34	109	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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/P ad (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	40.02	Pk	32.4	-20.4	52.02	-	-	74	-21.98	350	236	V
3	* 2.484	28.74	VA1T	32.4	-20.4	40.74	54	-13.26	-	-	350	236	V
4	* 2.484	28.86	VA1T	32.4	-20.5	40.76	54	-13.24	-	-	350	236	V
2	2.556	41.33	Pk	32.5	-20.2	53.63	-	-	74	-20.37	350	236	V

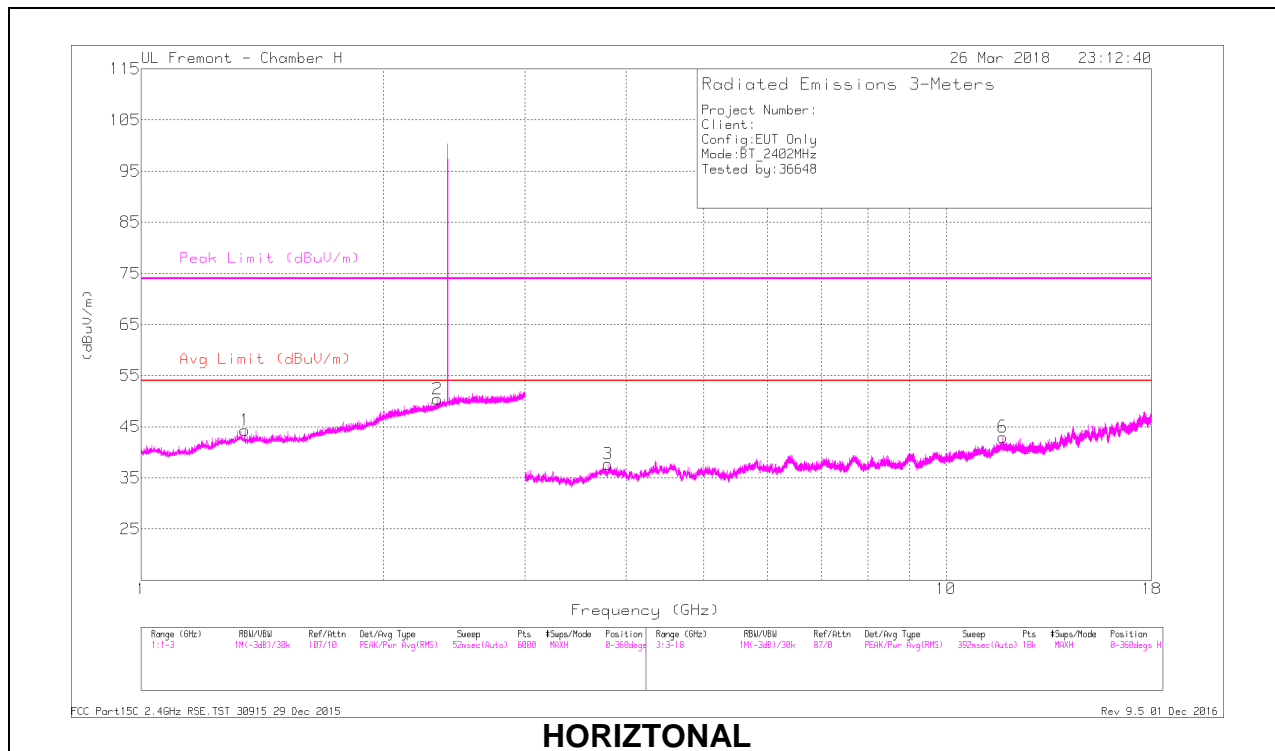
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

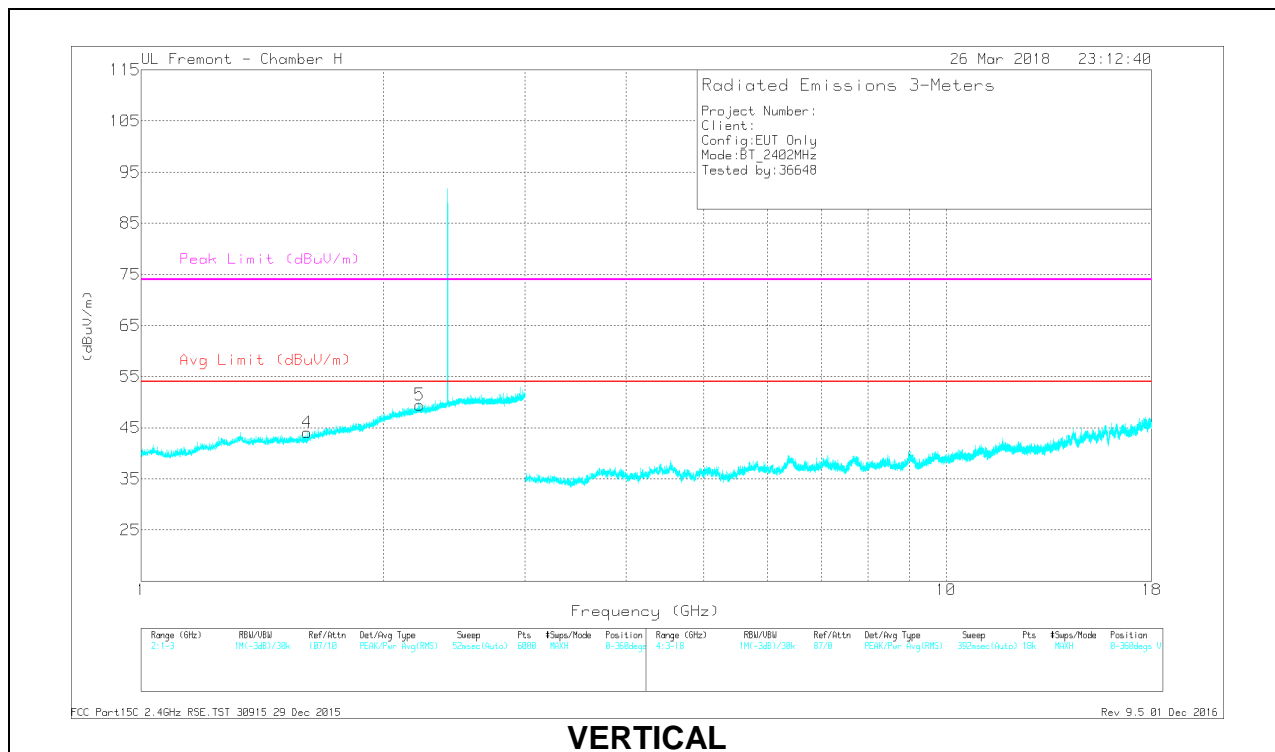
VA1T - FHSS: Linear Voltage Average $VB=1/Ton$ where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

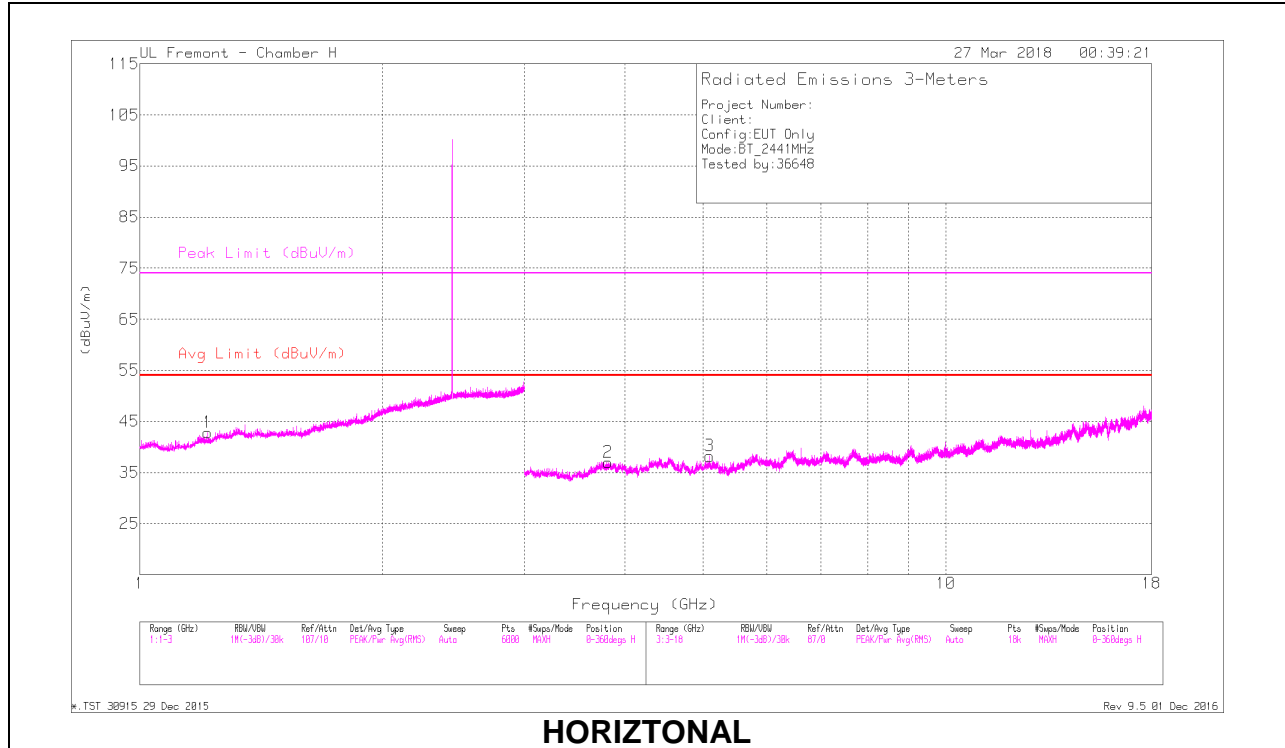
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.344	35.88	PKFH	29	-15.8	49.08	-	-	74	-24.92	139	136	H
1	* 1.344	23.59	VA1T	29	-15.8	36.79	54	-17.21	-	-	139	136	H
2	* 2.333	36.75	PKFH	32	-14.1	54.65	-	-	74	-19.35	164	379	H
2	* 2.336	24.84	VA1T	32	-14.1	42.74	54	-11.26	-	-	164	379	H
4	* 1.606	35.82	PKFH	28.2	-15	49.02	-	-	74	-24.98	314	368	V
4	* 1.607	23.85	VA1T	28.2	-15	37.05	54	-16.95	-	-	314	368	V
5	* 2.218	36.6	PKFH	31.9	-14.3	54.2	-	-	74	-19.8	246	185	V
5	* 2.217	24.49	VA1T	31.9	-14.3	42.09	54	-11.91	-	-	246	185	V
3	* 3.801	45.2	PKFH	33.2	-34.9	43.5	-	-	74	-30.5	207	356	H
3	* 3.803	32.63	VA1T	33.2	-34.9	30.93	54	-23.07	-	-	207	356	H
6	* 11.768	35.27	PKFH	38.9	-25.9	48.27	-	-	74	-25.73	222	315	H
6	* 11.767	23.38	VA1T	38.9	-25.9	36.38	54	-17.62	-	-	222	315	H

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

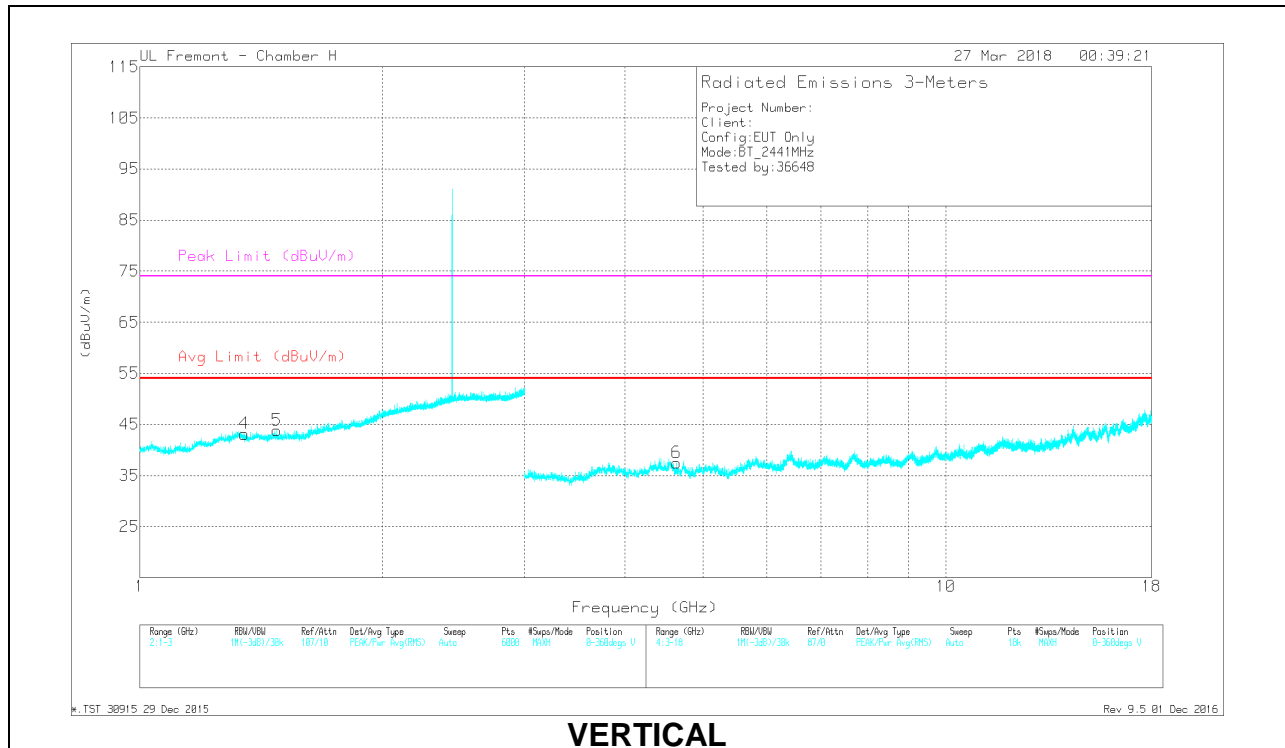
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

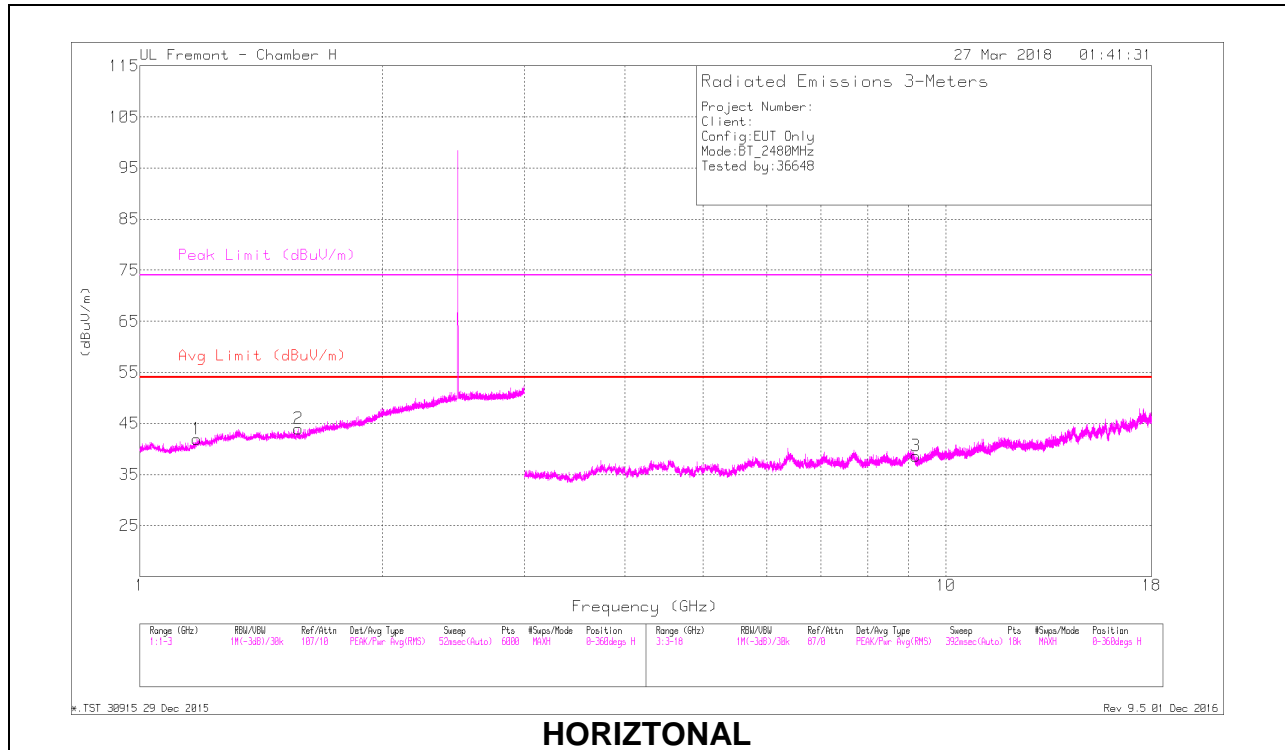
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.215	34.95	PKFH	28.1	-16	47.05	-	-	74	-26.95	339	205	H
1	* 1.212	23.65	VA1T	28	-16	35.65	54	-18.35	-	-	339	205	H
4	* 1.349	35.75	PKFH	29	-15.8	48.95	-	-	74	-25.05	86	326	V
4	* 1.347	23.52	VA1T	29	-15.8	36.72	54	-17.28	-	-	86	326	V
5	* 1.481	35.09	PKFH	28.5	-15.4	48.19	-	-	74	-25.81	206	229	V
5	* 1.478	23.71	VA1T	28.5	-15.4	36.81	54	-17.19	-	-	206	229	V
2	* 3.812	43.92	PKFH	33.2	-34.9	42.22	-	-	74	-31.78	328	400	H
2	* 3.812	32.75	VA1T	33.2	-34.9	31.05	54	-22.95	-	-	328	400	H
3	* 5.095	42.36	PKFH	34.1	-33.8	42.66	-	-	74	-31.34	94	159	H
6	* 4.63	43.32	PKFH	34.2	-34.1	43.42	-	-	74	-30.58	259	353	V
6	* 4.631	31.3	VA1T	34.2	-34.1	31.4	54	-22.6	-	-	259	353	V

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

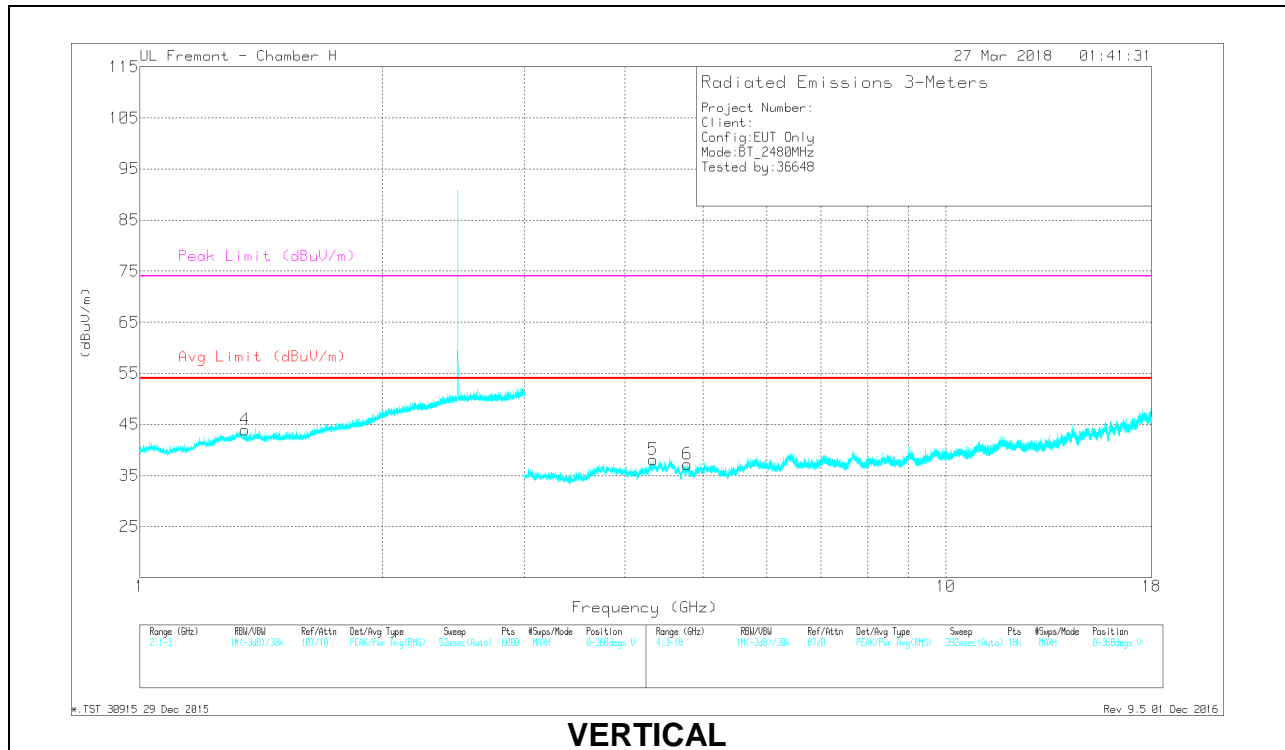
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

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	* 1.18	35.62	PKFH	27.7	-15.9	47.42	-	-	74	-26.58	330	132	H
	* 1.18	23.88	VA1T	27.7	-15.9	35.68	54	-18.32	-	-	330	132	H
2	* 1.573	35.13	PKFH	28.2	-15	48.33	-	-	74	-25.67	264	108	H
	* 1.574	23.7	VA1T	28.2	-15	36.9	54	-17.1	-	-	264	108	H
4	* 1.351	35.32	PKFH	29	-15.8	48.52	-	-	74	-25.48	226	197	V
	* 1.348	23.52	VA1T	29	-15.8	36.72	54	-17.28	-	-	226	197	V
3	* 9.175	36.17	PKFH	36.3	-28.9	43.57	-	-	74	-30.43	181	214	H
	* 9.173	24.21	VA1T	36.3	-28.9	31.61	54	-22.39	-	-	181	214	H
5	* 4.338	43.4	PKFH	33.8	-34.4	42.8	-	-	74	-31.2	68	306	V
	* 4.336	31.79	VA1T	33.8	-34.4	31.19	54	-22.81	-	-	68	306	V
6	* 4.778	42.23	PKFH	34.2	-34.4	42.03	-	-	74	-31.97	9	207	V
	* 4.779	30.5	VA1T	34.2	-34.4	30.3	54	-23.7	-	-	9	207	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

Antenna 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



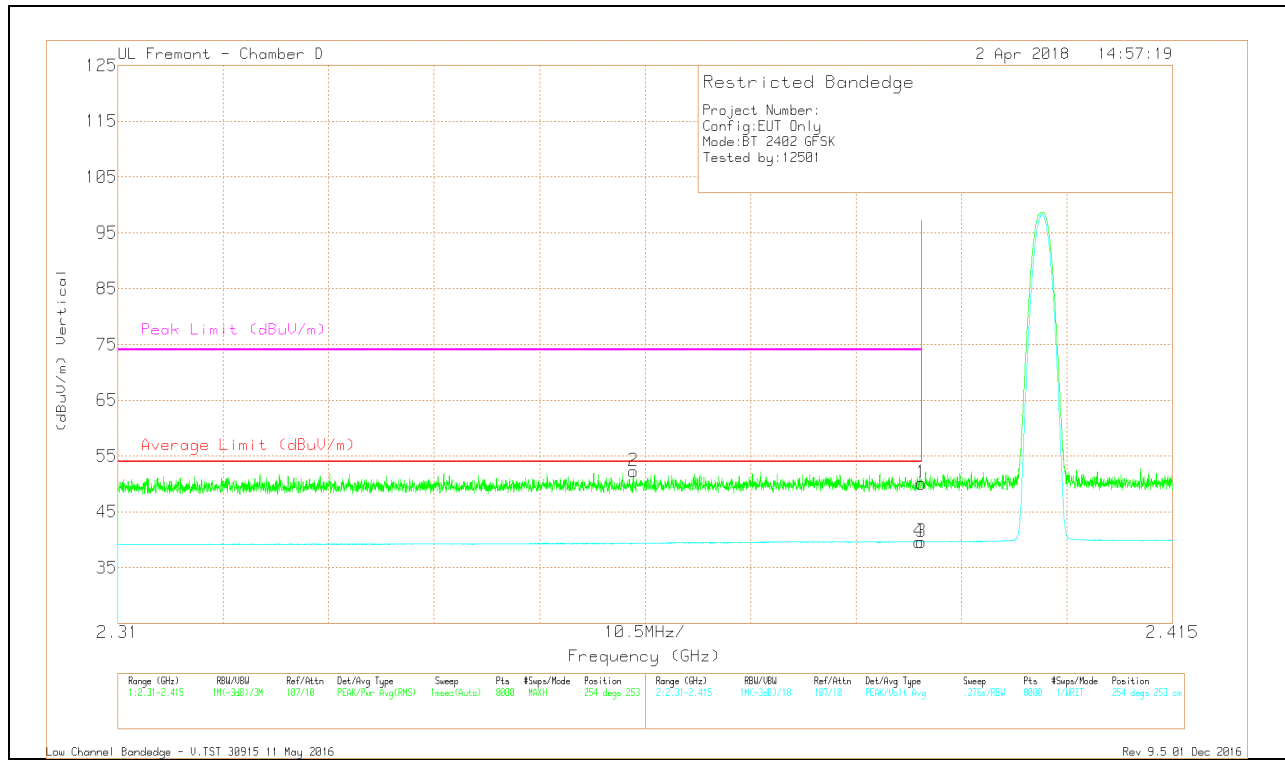
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.55	Pk	31.9	-20.5	49.95	-	-	74	-24.05	223	338	H
2	* 2.371	41.04	Pk	31.8	-20.6	52.24	-	-	74	-21.76	223	338	H
3	* 2.39	28.19	VA1T	31.9	-20.5	39.59	54	-14.41	-	-	223	338	H
4	* 2.389	28.25	VA1T	31.9	-20.5	39.65	54	-14.35	-	-	223	338	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

VERTICAL RESULT

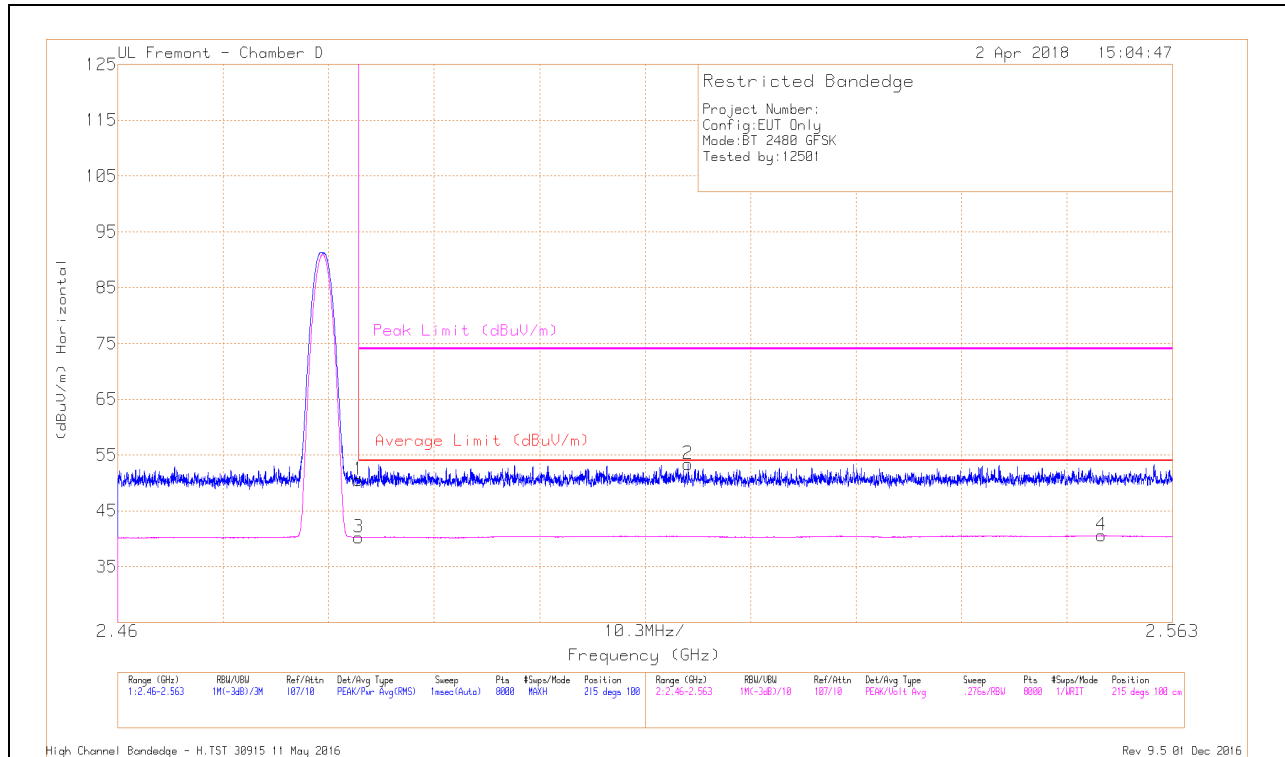


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.71	Pk	31.9	-20.5	50.11	-	-	74	-23.89	254	253	V
2	* 2.361	41.15	Pk	31.7	-20.6	52.25	-	-	74	-21.75	254	253	V
3	* 2.39	28.24	VA1T	31.9	-20.5	39.64	54	-14.36	-	-	254	253	V
4	* 2.39	28.27	VA1T	31.9	-20.5	39.67	54	-14.33	-	-	254	253	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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



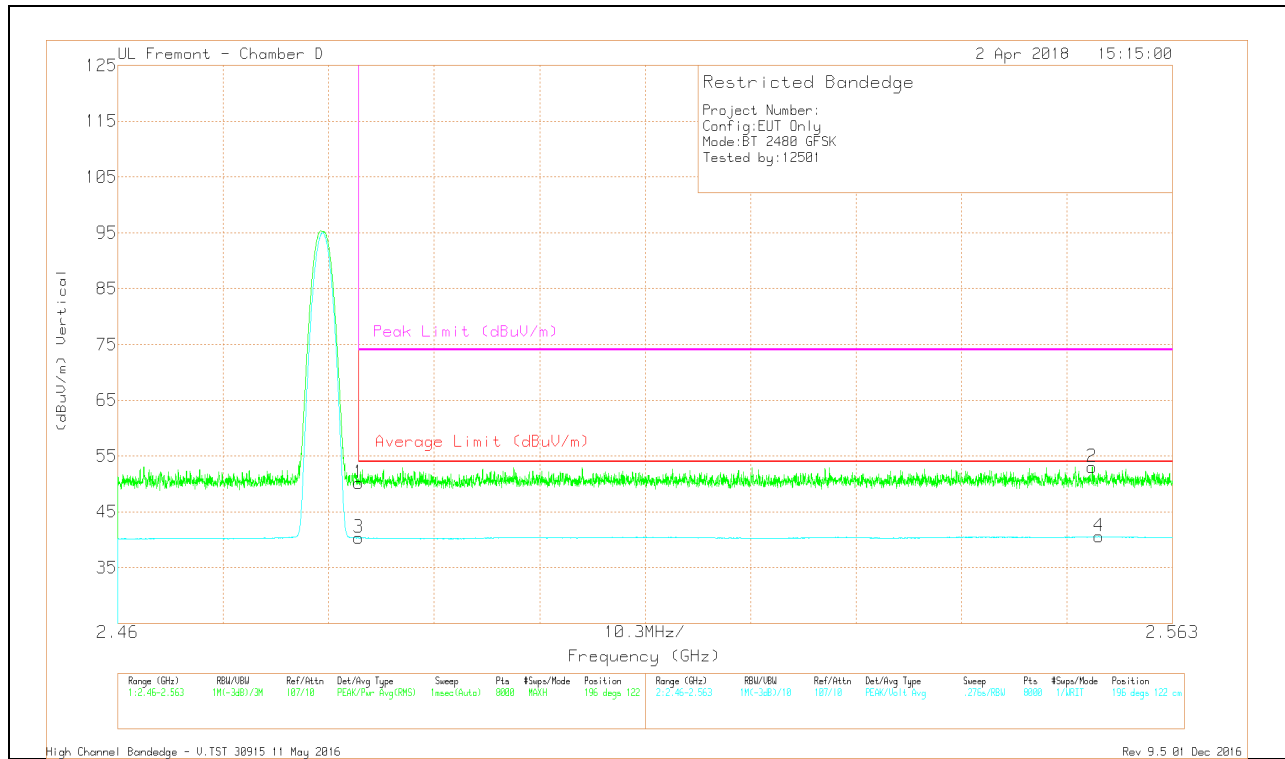
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.53	Pk	32.4	-20.4	50.53	-	-	74	-23.47	215	100	H
3	* 2.484	28.23	VA1T	32.4	-20.4	40.23	54	-13.77	-	-	215	100	H
2	2.516	41.31	Pk	32.4	-20.3	53.41	-	-	74	-20.59	215	100	H
4	2.556	28.26	VA1T	32.5	-20.2	40.56	54	-13.44	-	-	215	100	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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/P ad (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	38.18	Pk	32.4	-20.4	50.18	-	-	74	-23.82	196	122	V
3	* 2.484	28.31	VA1T	32.4	-20.4	40.31	54	-13.69	-	-	196	122	V
2	2.555	40.87	Pk	32.5	-20.3	53.07	-	-	74	-20.93	196	122	V
4	2.556	28.37	VA1T	32.5	-20.3	40.57	54	-13.43	-	-	196	122	V

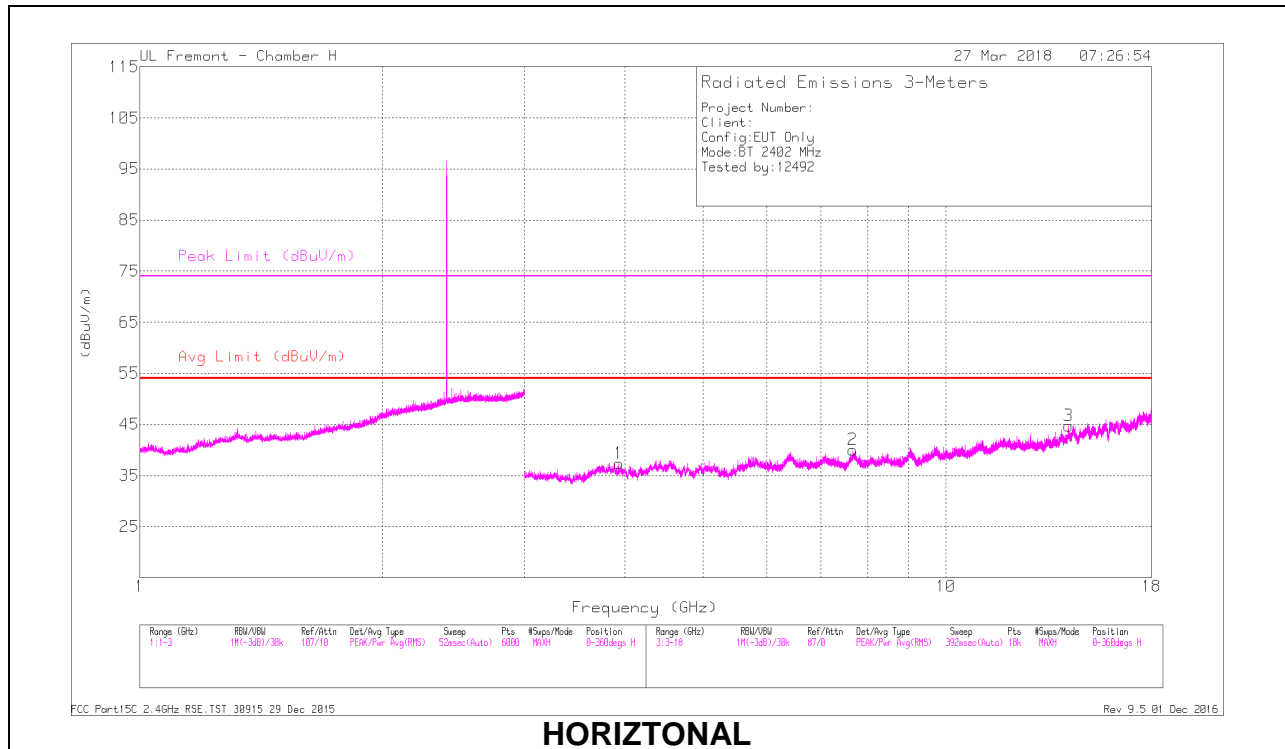
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

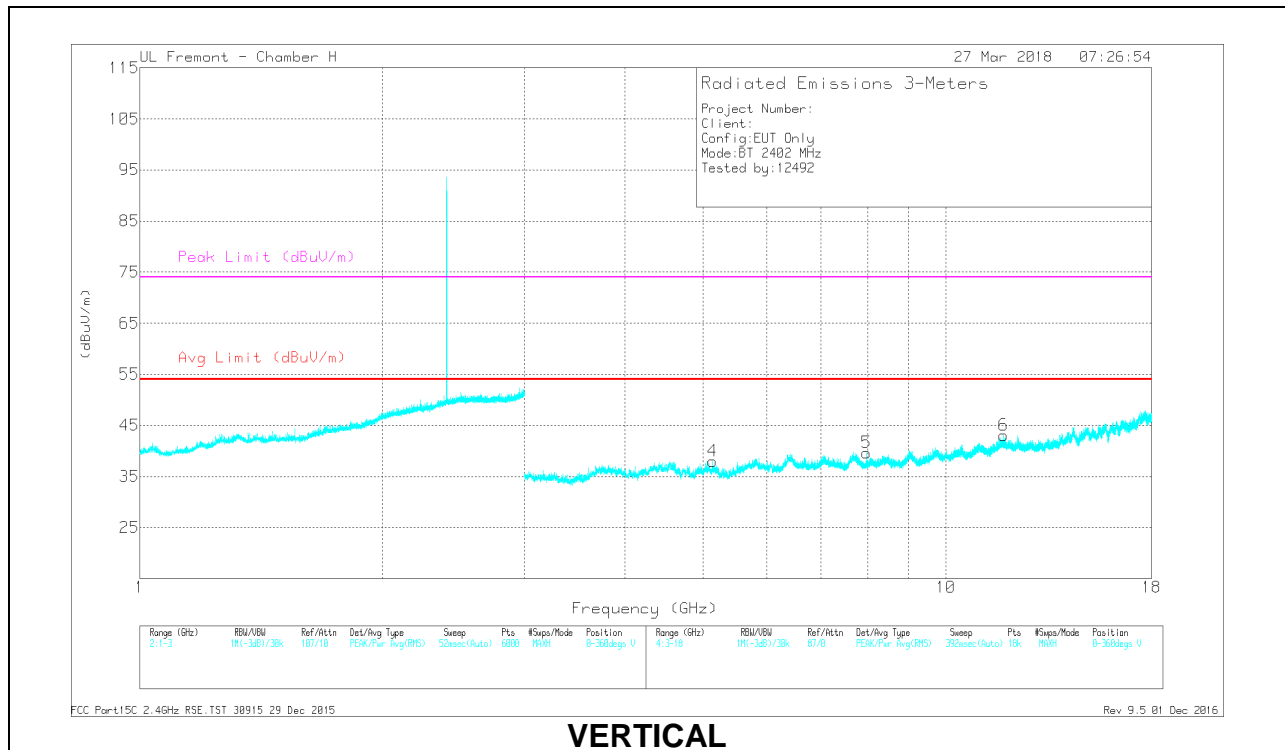
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

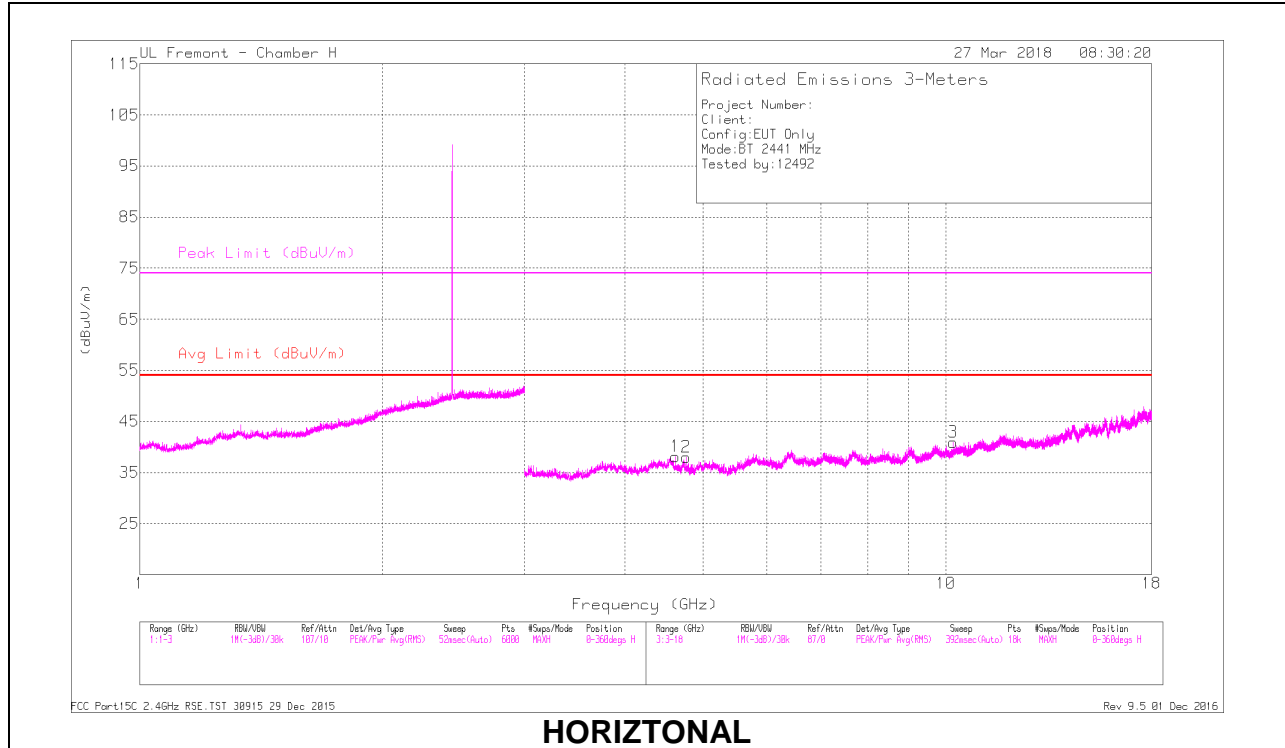
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.931	43.49	PKFH	33.5	-35	41.99	-	-	74	-32.01	38	343	H
	* 3.932	31.99	VA1T	33.5	-35	30.49	54	-23.51	-	-	38	343	H
2	* 7.664	38.79	PKFH	36.2	-29.6	45.39	-	-	74	-28.61	58	105	H
	* 7.665	26.76	VA1T	36.2	-29.6	33.36	54	-20.64	-	-	58	105	H
4	* 5.134	42.69	PKFH	34.2	-33.6	43.29	-	-	74	-30.71	96	148	V
	* 5.132	29.92	VA1T	34.2	-33.6	30.52	54	-23.48	-	-	96	148	V
6	* 11.788	34.21	PKFH	38.9	-26	47.11	-	-	74	-26.89	356	100	V
	* 11.787	22.93	VA1T	38.9	-26	35.83	54	-18.17	-	-	356	100	V
5	7.974	37.95	PKFH	35.9	-30	43.85	-	-	-	-	201	332	V
3	14.202	34.32	PKFH	40.7	-24.8	50.22	-	-	-	-	245	373	H

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

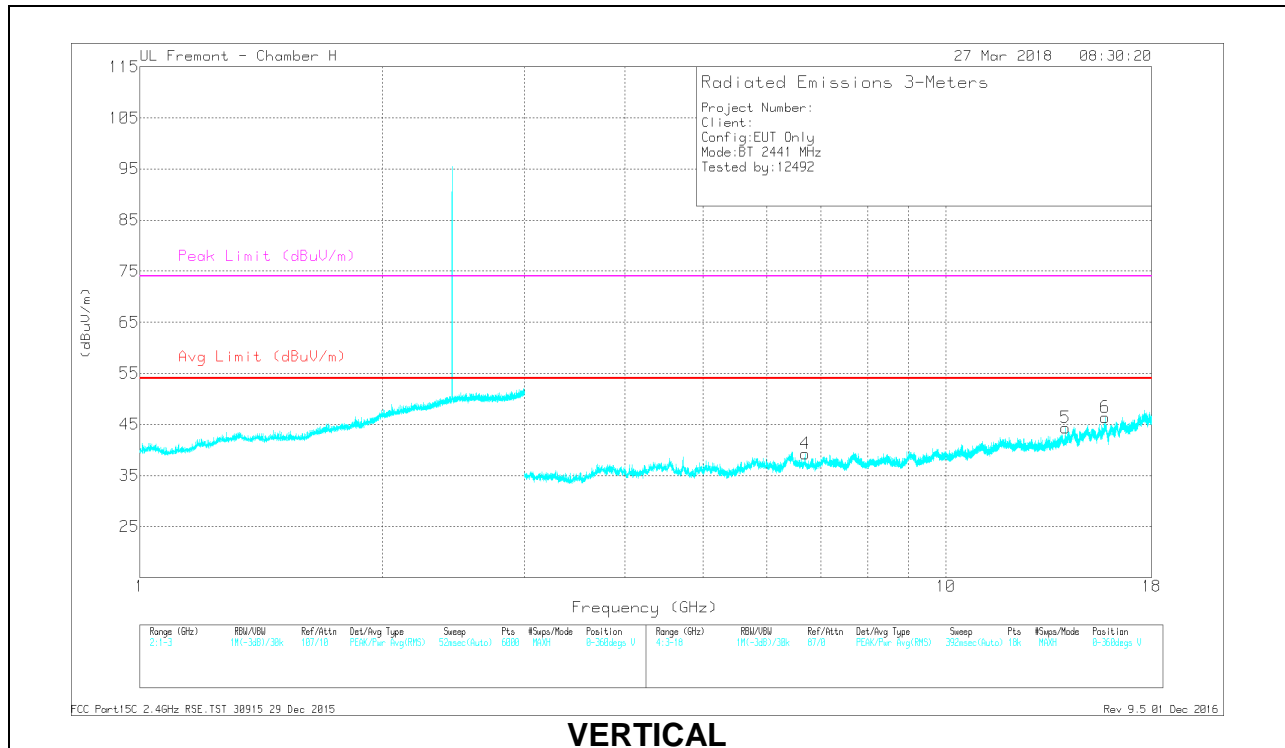
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

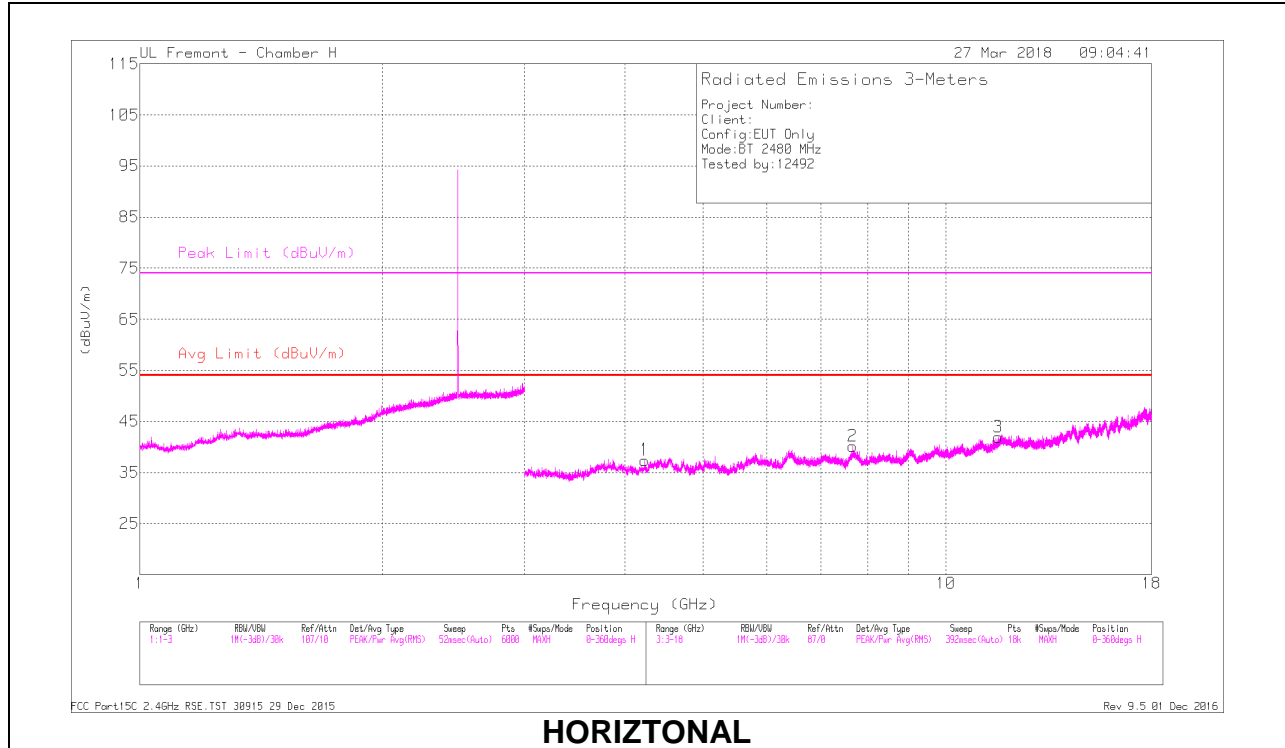
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.62	42.85	PKFH	34.3	-34.2	42.95	-	-	74	-31.05	78	285	H
	* 4.619	30.88	VA1T	34.3	-34.2	30.98	54	-23.02	-	-	78	285	H
2	* 4.759	41.33	PKFH	34.2	-34.3	41.23	-	-	74	-32.77	130	300	H
	* 4.76	29.41	VA1T	34.2	-34.3	29.31	54	-24.69	-	-	130	300	H
6	* 15.76	34.05	PKFH	41.7	-24	51.75	-	-	74	-22.25	99	347	V
	* 15.762	22.48	VA1T	41.7	-24	40.18	54	-13.82	-	-	99	347	V
4	6.696	38.52	PKFH	35.7	-30.4	43.82	-	-	-	-	332	194	V
3	10.217	36.91	PKFH	37.3	-28.3	45.91	-	-	-	-	196	357	H
5	14.077	35.12	PKFH	39.4	-24.8	49.72	-	-	-	-	202	116	V

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

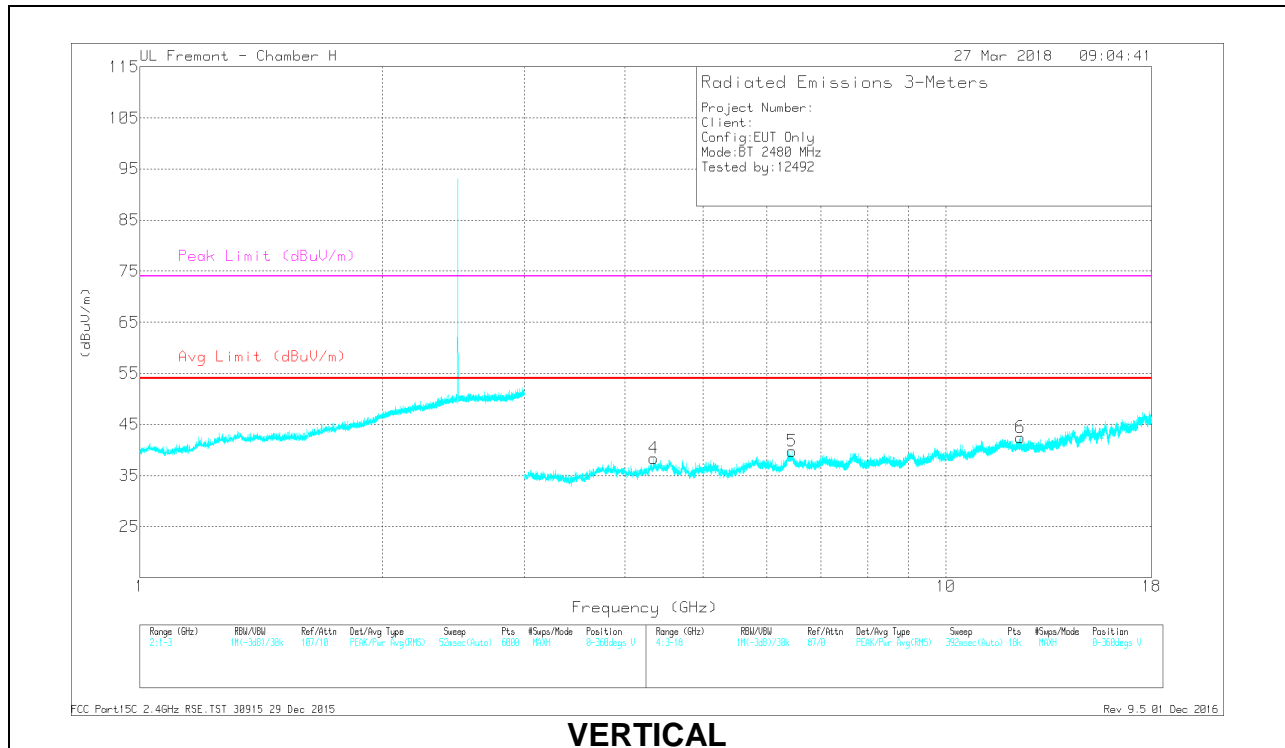
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED 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	* 4.236	43.3	PKFH	33.5	-35	41.8	-	-	74	-32.2	127	112	H
	* 4.232	31.9	VA1T	33.5	-35	30.4	54	-23.6	-	-	127	112	H
2	* 7.672	38.73	PKFH	36.2	-29.5	45.43	-	-	74	-28.57	351	310	H
	* 7.668	26.79	VA1T	36.2	-29.6	33.39	54	-20.61	-	-	351	310	H
3	* 11.619	35.93	PKFH	38.4	-25.9	48.43	-	-	74	-25.57	358	331	H
	* 11.618	23.46	VA1T	38.4	-25.9	35.96	54	-18.04	-	-	358	331	H
4	* 4.338	43.99	PKFH	33.8	-34.4	43.39	-	-	74	-30.61	352	194	V
	* 4.336	31.84	VA1T	33.8	-34.4	31.24	54	-22.76	-	-	352	194	V
6	* 12.371	34.94	PKFH	38.6	-25.8	47.74	-	-	74	-26.26	233	362	V
	* 12.371	23.14	VA1T	38.7	-25.8	36.04	54	-17.96	-	-	233	362	V
5	6.445	40.49	PKFH	35.5	-30.6	45.39	-	-	-	-	341	300	V

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

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

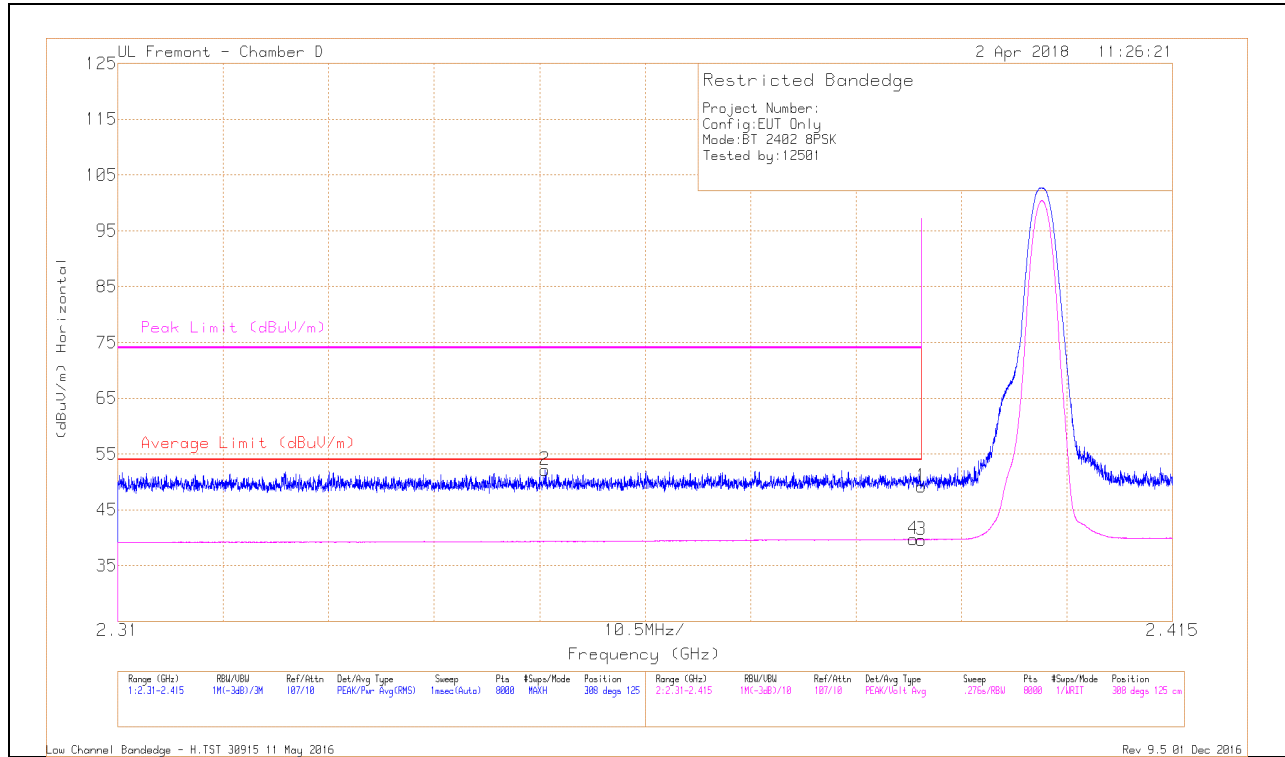
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.1.4. LOW POWER ENCHANCED DATA RATE 8PSK MODULATION

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



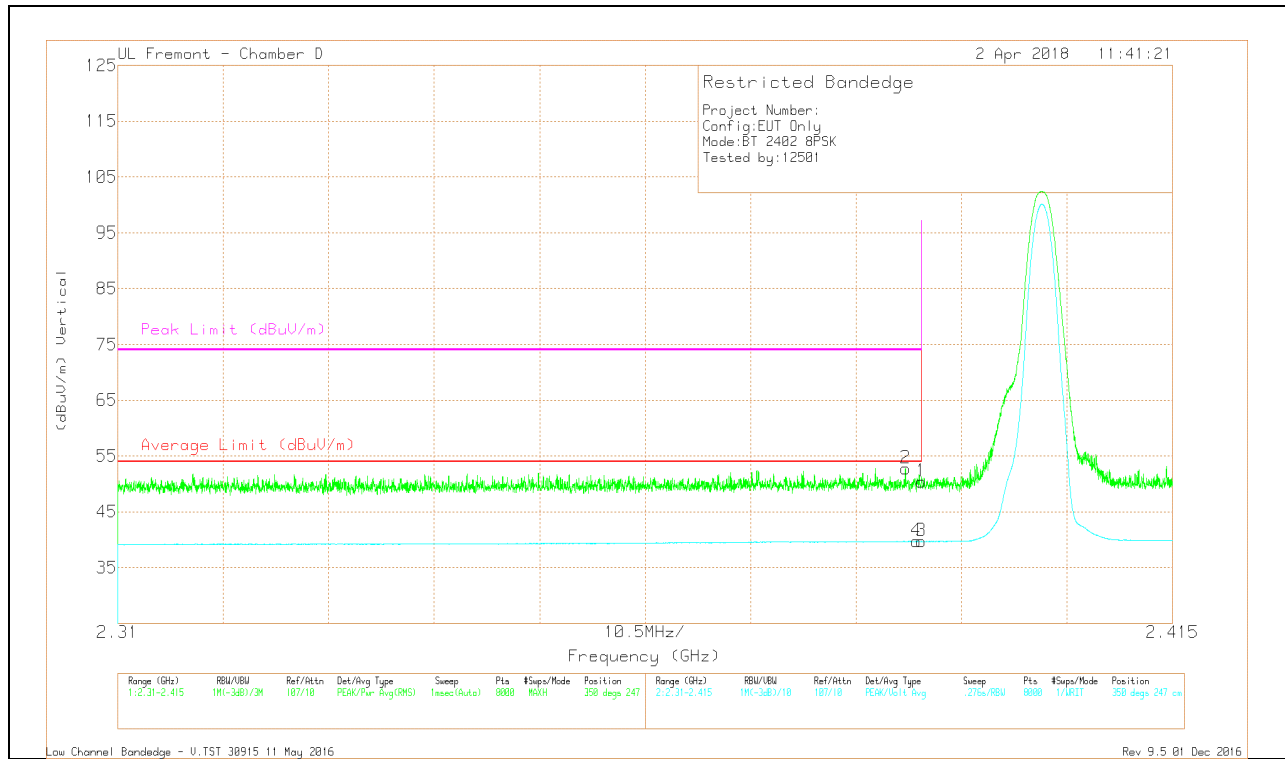
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.79	Pk	31.9	-20.5	49.19	-	-	74	-24.81	308	125	H
2	* 2.353	41.16	Pk	31.6	-20.6	52.16	-	-	74	-21.84	308	125	H
3	* 2.39	28.24	VA1T	31.9	-20.5	39.64	54	-14.36	-	-	308	125	H
4	* 2.389	28.32	VA1T	31.9	-20.5	39.72	54	-14.28	-	-	308	125	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

VERTICAL RESULT

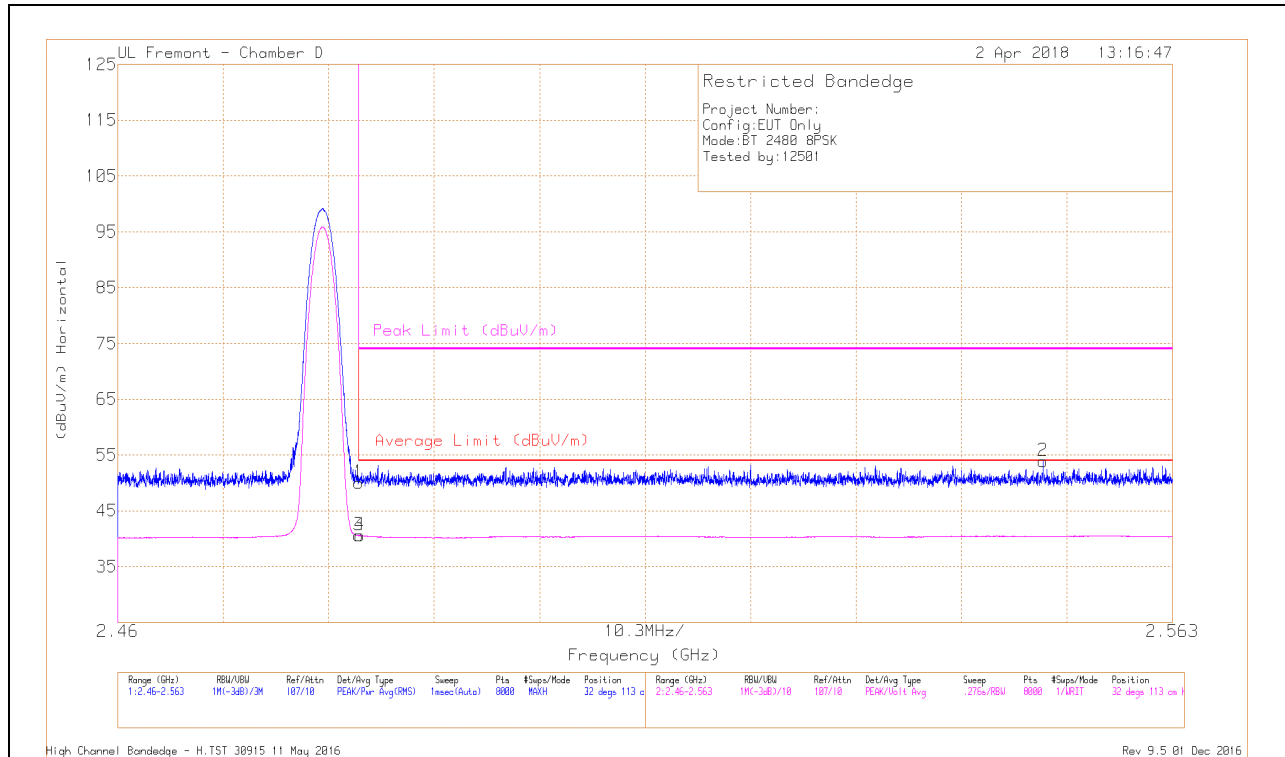


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.07	Pk	31.9	-20.5	50.47	-	-	74	-23.53	350	247	V
2	* 2.388	41.35	Pk	31.9	-20.5	52.75	-	-	74	-21.25	350	247	V
3	* 2.39	28.29	VA1T	31.9	-20.5	39.69	54	-14.31	-	-	350	247	V
4	* 2.389	28.3	VA1T	31.9	-20.5	39.7	54	-14.3	-	-	350	247	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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



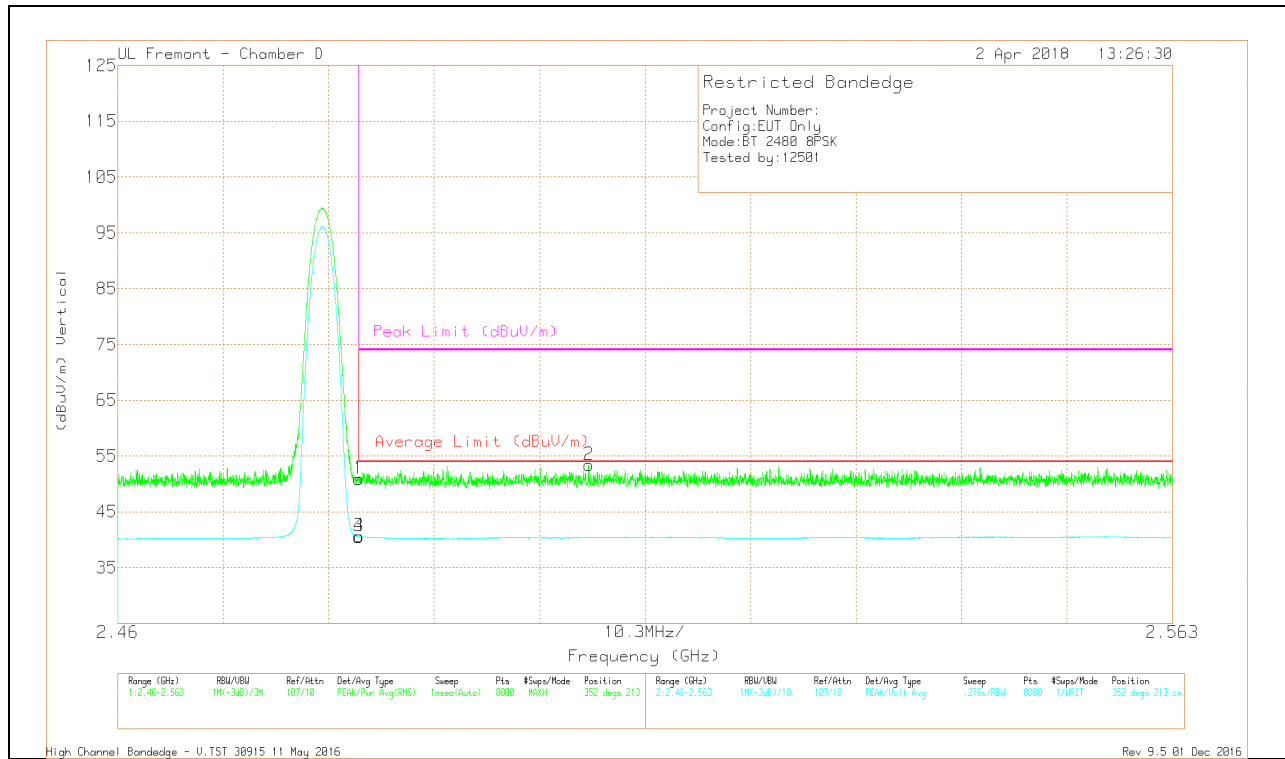
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.01	Pk	32.4	-20.4	50.01	-	-	74	-23.99	32	113	H
3	* 2.484	28.58	VA1T	32.4	-20.4	40.58	54	-13.42	-	-	32	113	H
4	* 2.484	28.66	VA1T	32.4	-20.5	40.56	54	-13.44	-	-	32	113	H
2	2.55	41.94	Pk	32.4	-20.4	53.94	-	-	74	-20.06	32	113	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

VERTICAL RESULT

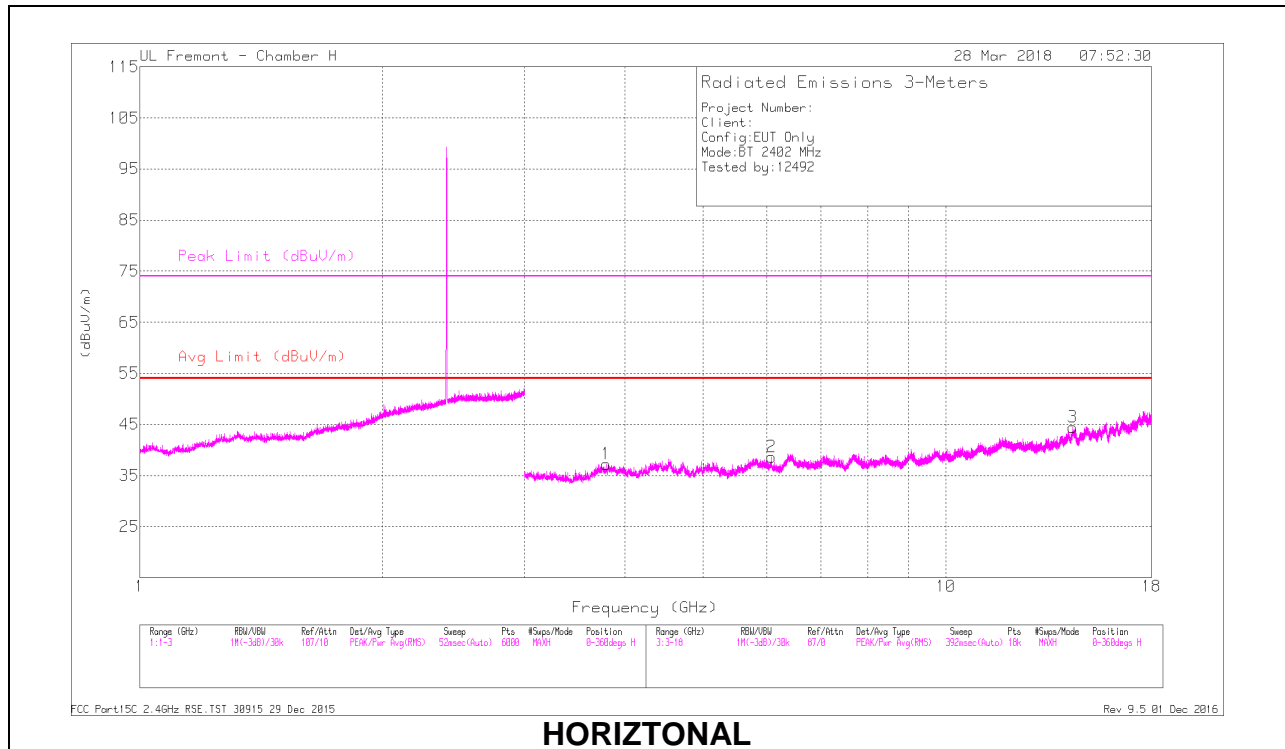


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.88	Pk	32.4	-20.4	50.88	-	-	74	-23.12	352	213	V
3	* 2.484	28.55	VA1T	32.4	-20.4	40.55	54	-13.45	-	-	352	213	V
4	* 2.484	28.68	VA1T	32.4	-20.5	40.58	54	-13.42	-	-	352	213	V
2	2.506	41.34	Pk	32.4	-20.4	53.34	-	-	74	-20.66	352	213	V

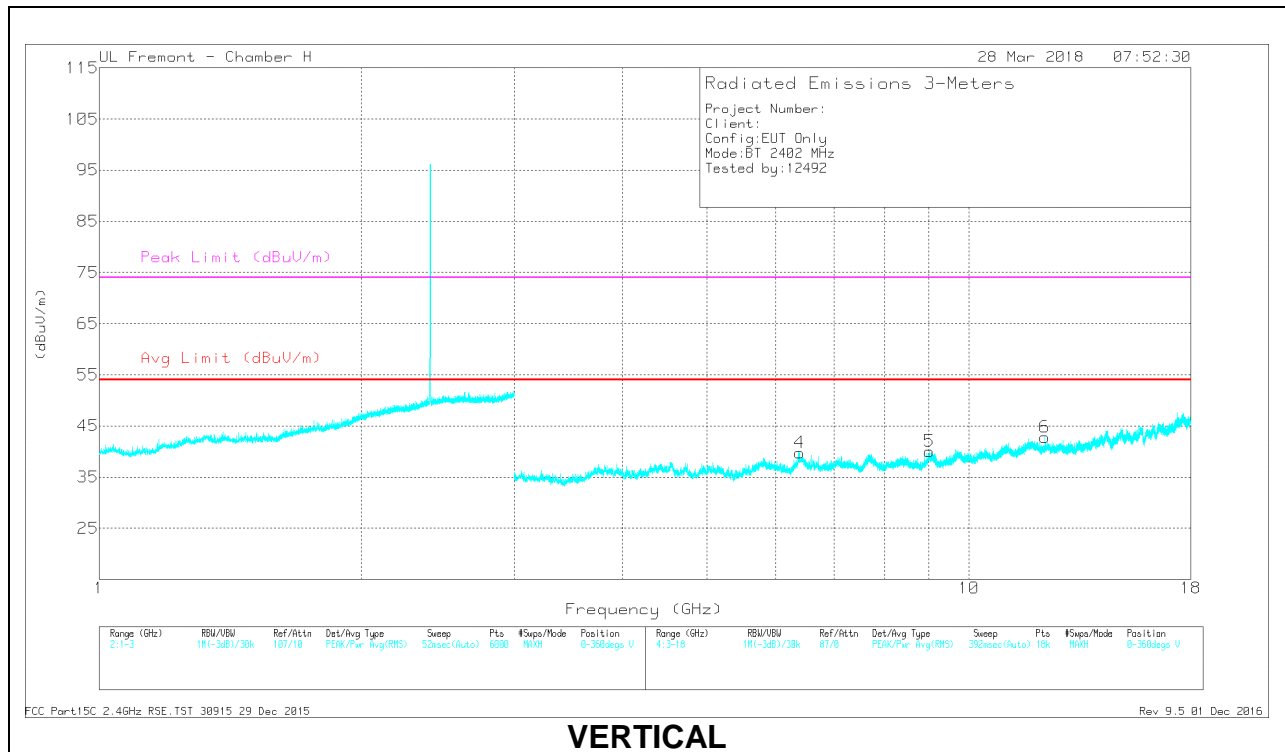
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

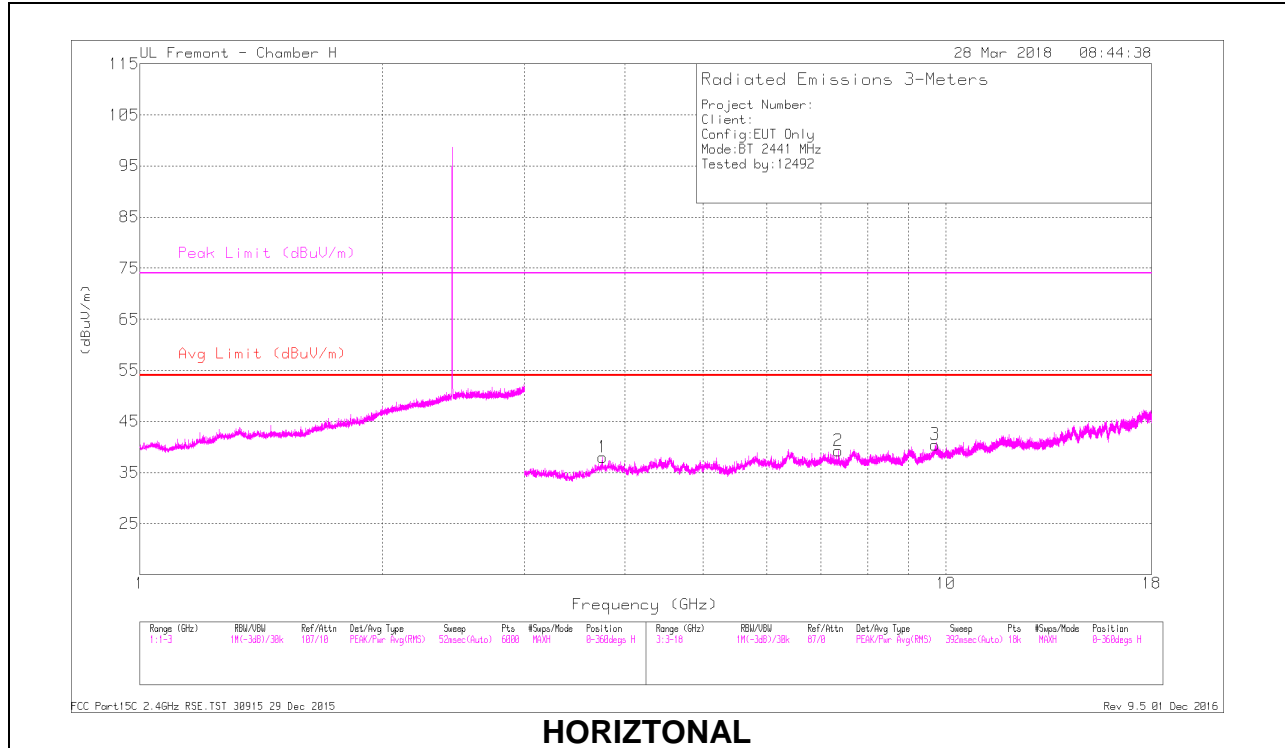
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.793	44.98	PKFH	33.2	-35	43.18	-	-	74	-30.82	281	240	H
	* 3.791	32.59	VA1T	33.2	-35	30.79	54	-23.21	-	-	281	240	H
5	* 9.009	37.4	PKFH	36.5	-28.4	45.5	-	-	74	-28.5	155	386	V
	* 9.01	25.53	VA1T	36.5	-28.4	33.63	54	-20.37	-	-	155	386	V
6	* 12.235	34.54	PKFH	38.7	-25.8	47.44	-	-	74	-26.56	321	190	V
	* 12.234	22.46	VA1T	38.7	-25.8	35.36	54	-18.64	-	-	321	190	V
2	6.081	38.51	PKFH	35.4	-31.2	42.71	-	-	-	-	213	357	H
4	6.387	39.92	PKFH	35.5	-30.7	44.72	-	-	-	-	73	363	V
3	14.374	34.32	PKFH	40.4	-23.8	50.92	-	-	-	-	154	319	H

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

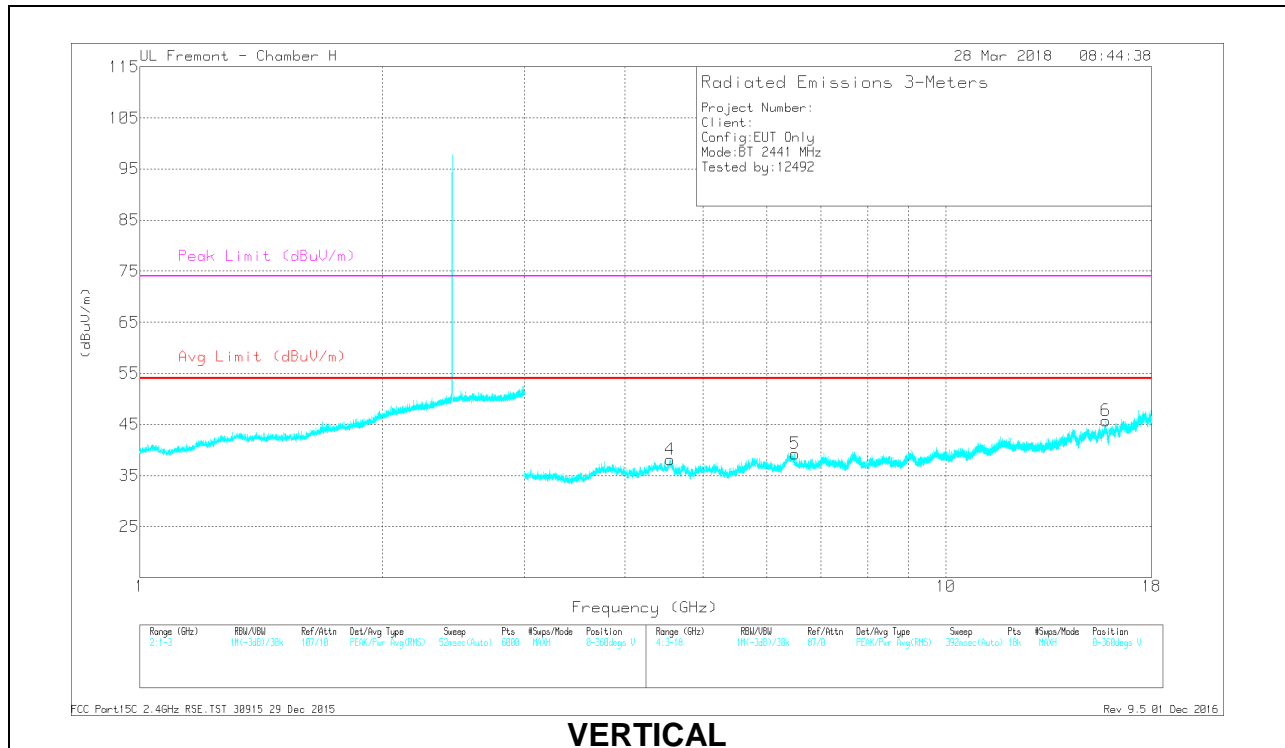
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

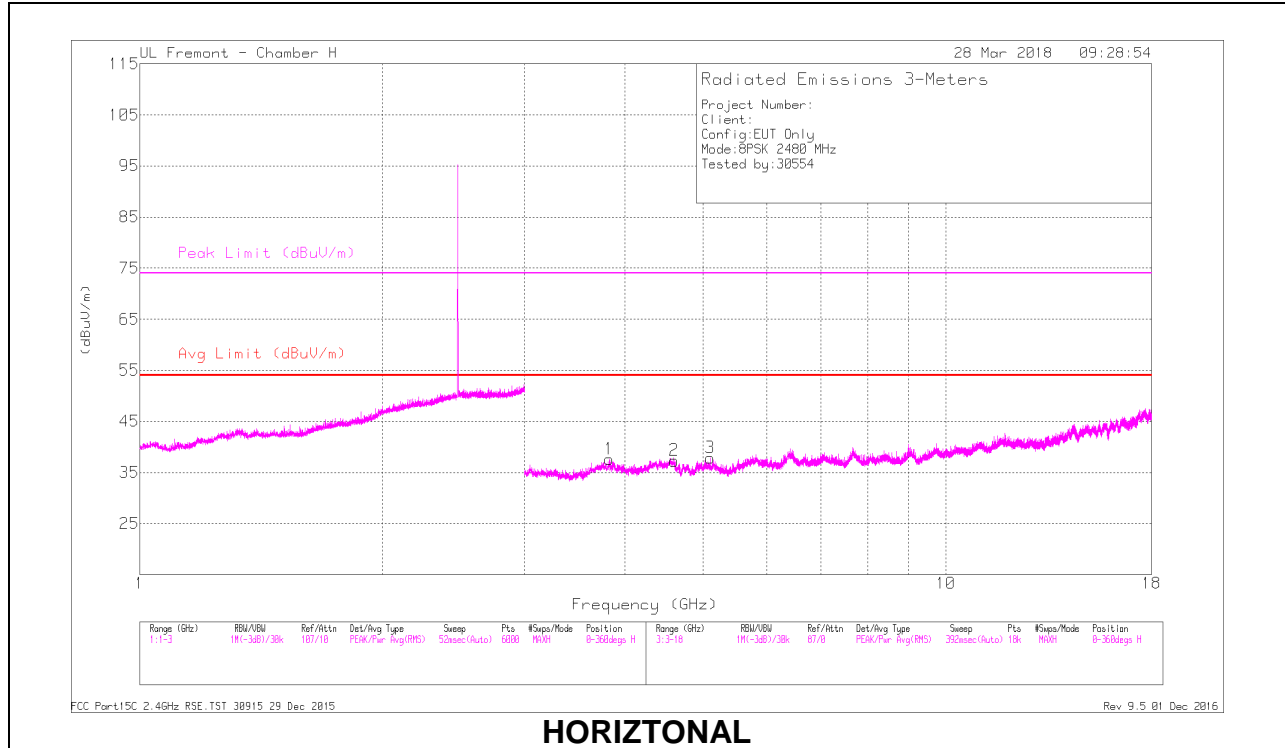
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.751	44.51	PKFH	33.1	-35	42.61	-	-	74	-31.39	149	213	H
	* 3.75	33.09	VA1T	33.1	-35.1	31.09	54	-22.91	-	-	149	213	H
2	* 7.356	38.11	PKFH	35.9	-30.5	43.51	-	-	74	-30.49	237	146	H
	* 7.356	26.37	VA1T	35.9	-30.5	31.77	54	-22.23	-	-	237	146	H
4	* 4.551	43.82	PKFH	34.3	-34.7	43.42	-	-	74	-30.58	306	246	V
	* 4.551	32.07	VA1T	34.3	-34.7	31.67	54	-22.33	-	-	306	246	V
6	* 15.8	33.66	PKFH	42.3	-24.1	51.86	-	-	74	-22.14	353	326	V
	* 15.802	21.53	VA1T	42.3	-24.1	39.73	54	-14.27	-	-	353	326	V
5	6.499	40.28	PKFH	35.5	-31.5	44.28	-	-	-	-	88	365	V
3	9.697	37.78	PKFH	37.3	-28.1	46.98	-	-	-	-	138	319	H

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

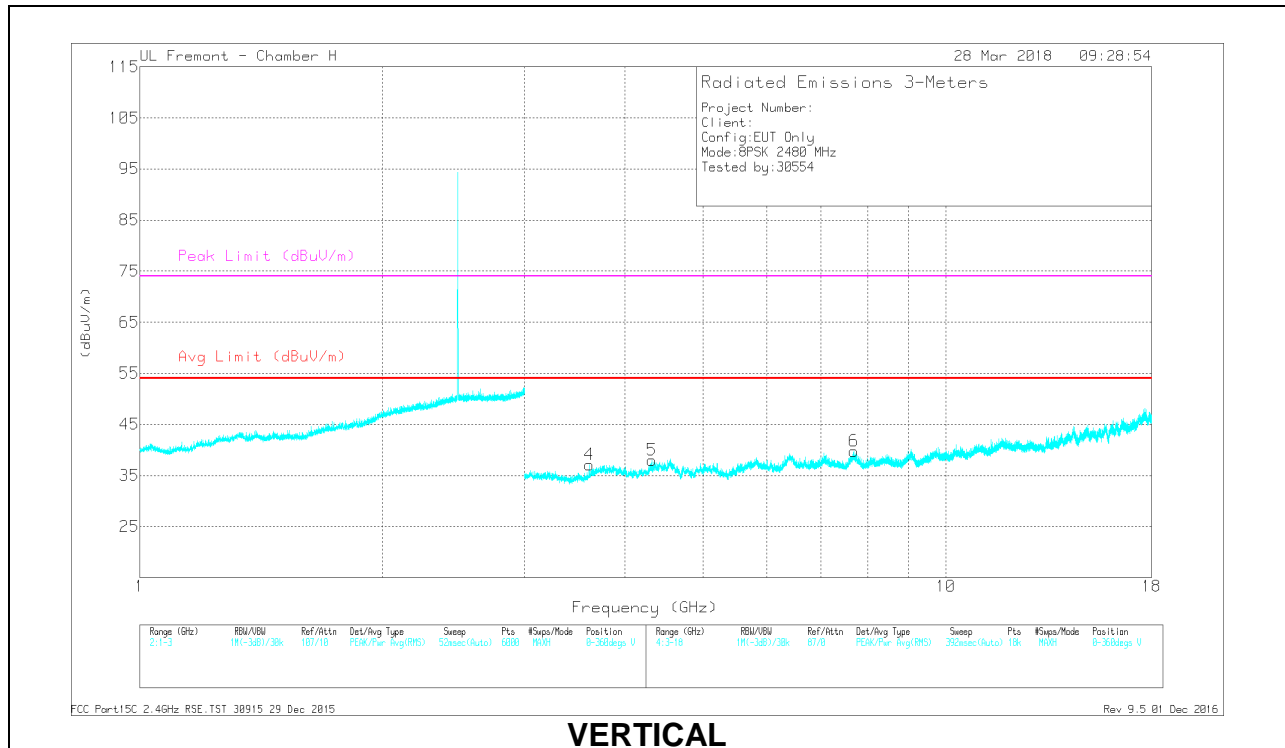
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Markers	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	* 3.822	44.59	PKFH	33.2	-34.8	42.99	-	-	74	-31.01	360	100	H
	* 3.823	32.57	VA1T	33.2	-34.8	30.97	54	-23.03	-	-	360	100	H
2	* 4.606	43.51	PKFH	34.3	-34.2	43.61	-	-	74	-30.39	36	180	H
	* 4.605	31.35	VA1T	34.3	-34.2	31.45	54	-22.55	-	-	36	180	H
3	* 5.1	41.94	PKFH	34.1	-33.8	42.24	-	-	74	-31.76	184	385	H
	* 5.098	30.28	VA1T	34.1	-33.8	30.58	54	-23.42	-	-	184	385	H
4	* 3.611	44.62	PKFH	33.2	-35.2	42.62	-	-	74	-31.38	211	195	V
	* 3.613	32.28	VA1T	33.2	-35.2	30.28	54	-23.72	-	-	211	195	V
5	* 4.318	43.2	PKFH	33.8	-34.6	42.4	-	-	74	-31.6	238	167	V
	* 4.316	31.92	VA1T	33.8	-34.6	31.12	54	-22.88	-	-	238	167	V
6	* 7.692	38.39	PKFH	36.2	-29.8	44.79	-	-	74	-29.21	269	115	V
	* 7.691	26.77	VA1T	36.2	-29.8	33.17	54	-20.83	-	-	269	115	V

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

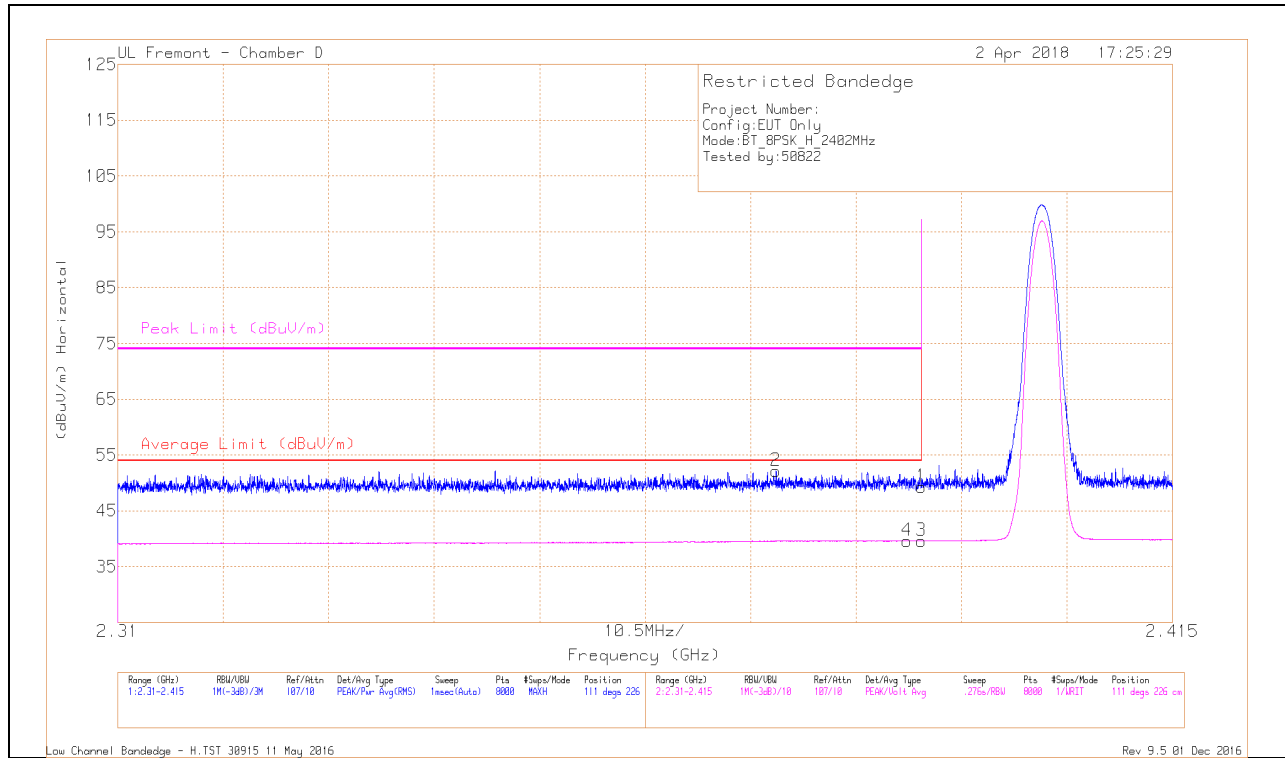
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

Antenna 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



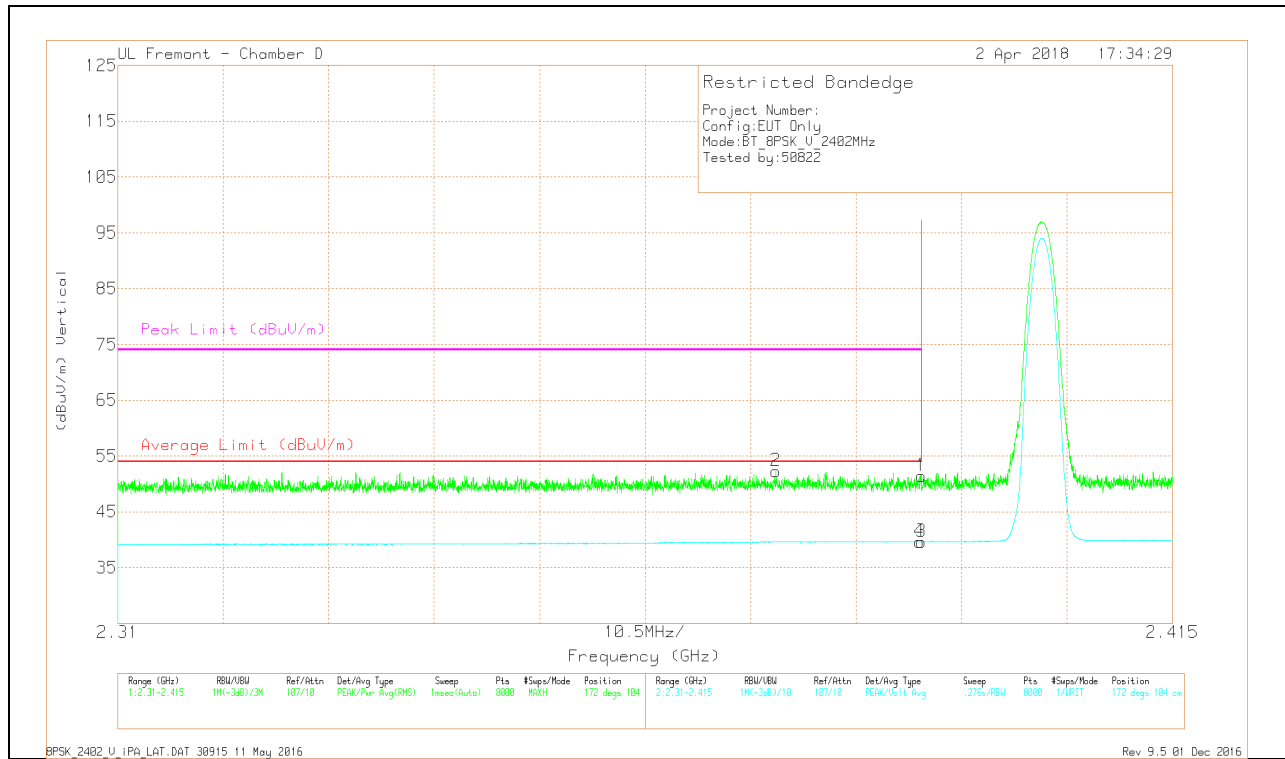
Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.9	Pk	31.9	-20.5	49.3	-	-	74	-24.7	111	226	H
2	* 2.376	40.89	Pk	31.8	-20.5	52.19	-	-	74	-21.81	111	226	H
3	* 2.39	28.2	VA1T	31.9	-20.5	39.6	54	-14.4	-	-	111	226	H
4	* 2.389	28.26	VA1T	31.9	-20.5	39.66	54	-14.34	-	-	111	226	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

VERTICAL RESULT

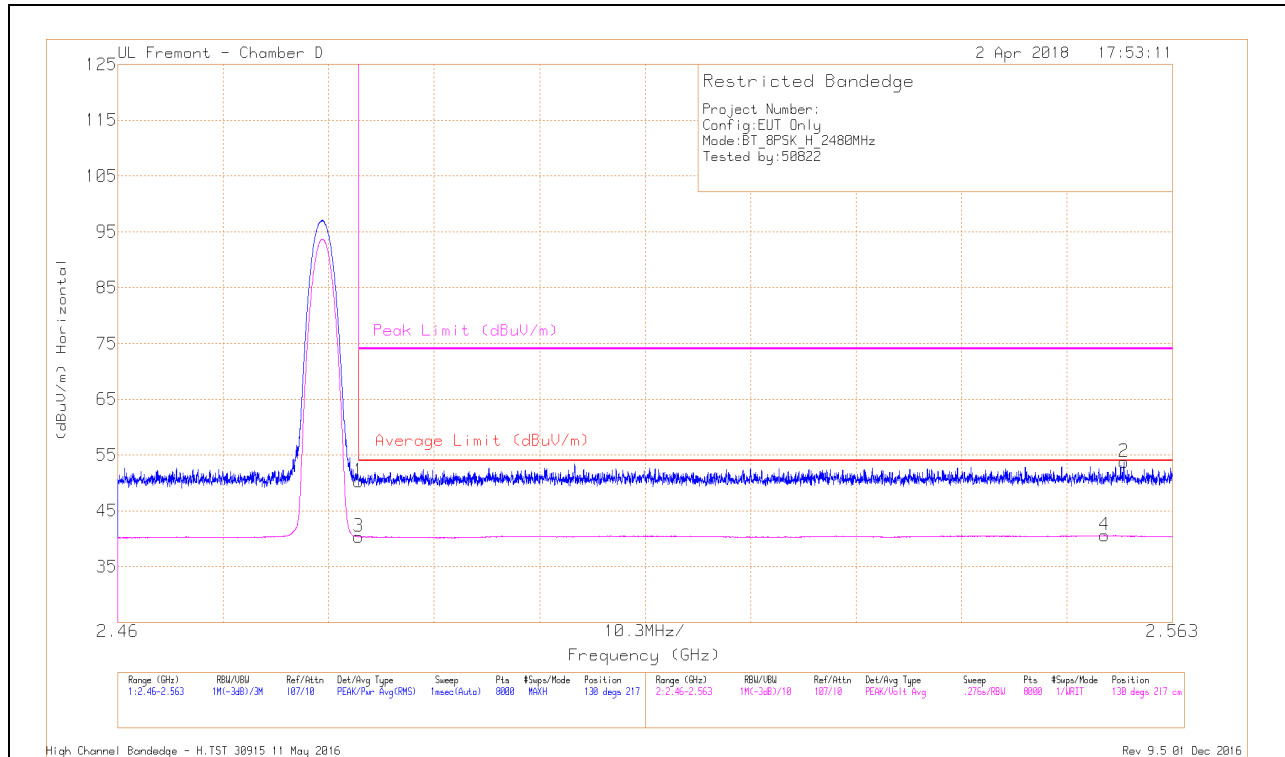


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.06	Pk	31.9	-20.5	51.46	-	-	74	-22.54	172	104	V
2	* 2.376	40.99	Pk	31.8	-20.5	52.29	-	-	74	-21.71	172	104	V
3	* 2.39	28.25	VA1T	31.9	-20.5	39.65	54	-14.35	-	-	172	104	V
4	* 2.39	28.26	VA1T	31.9	-20.5	39.66	54	-14.34	-	-	172	104	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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



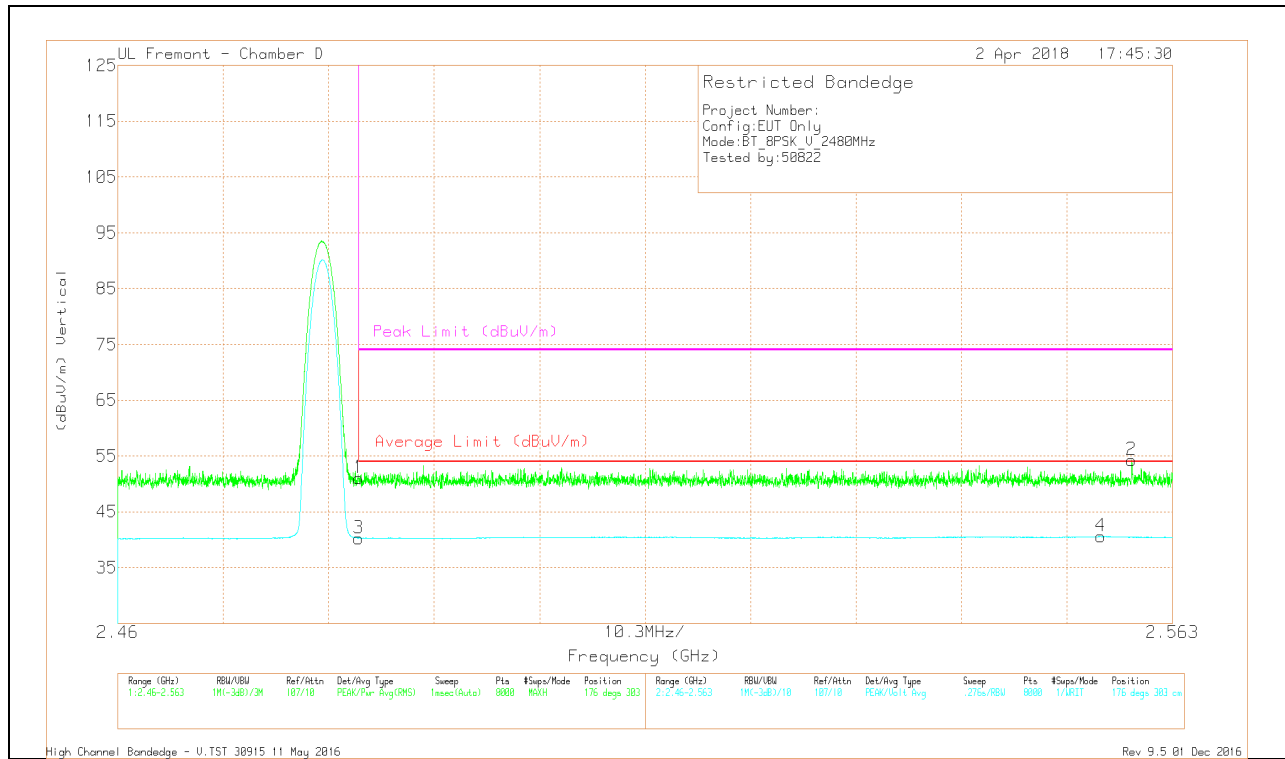
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.27	Pk	32.4	-20.4	50.27	-	-	74	-23.73	130	217	H
3	* 2.484	28.31	VA1T	32.4	-20.4	40.31	54	-13.69	-	-	130	217	H
4	2.556	28.27	VA1T	32.5	-20.2	40.57	54	-13.43	-	-	130	217	H
2	2.558	41.55	Pk	32.5	-20.3	53.75	-	-	74	-20.25	130	217	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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/P ad (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	Pk	32.4	-20.4	51	-	-	74	-23	176	303	V
3	* 2.484	28.28	VA1T	32.4	-20.4	40.28	54	-13.72	-	-	176	303	V
4	2.556	28.39	VA1T	32.5	-20.3	40.59	54	-13.41	-	-	176	303	V
2	2.559	42.03	Pk	32.5	-20.3	54.23	-	-	74	-19.77	176	303	V

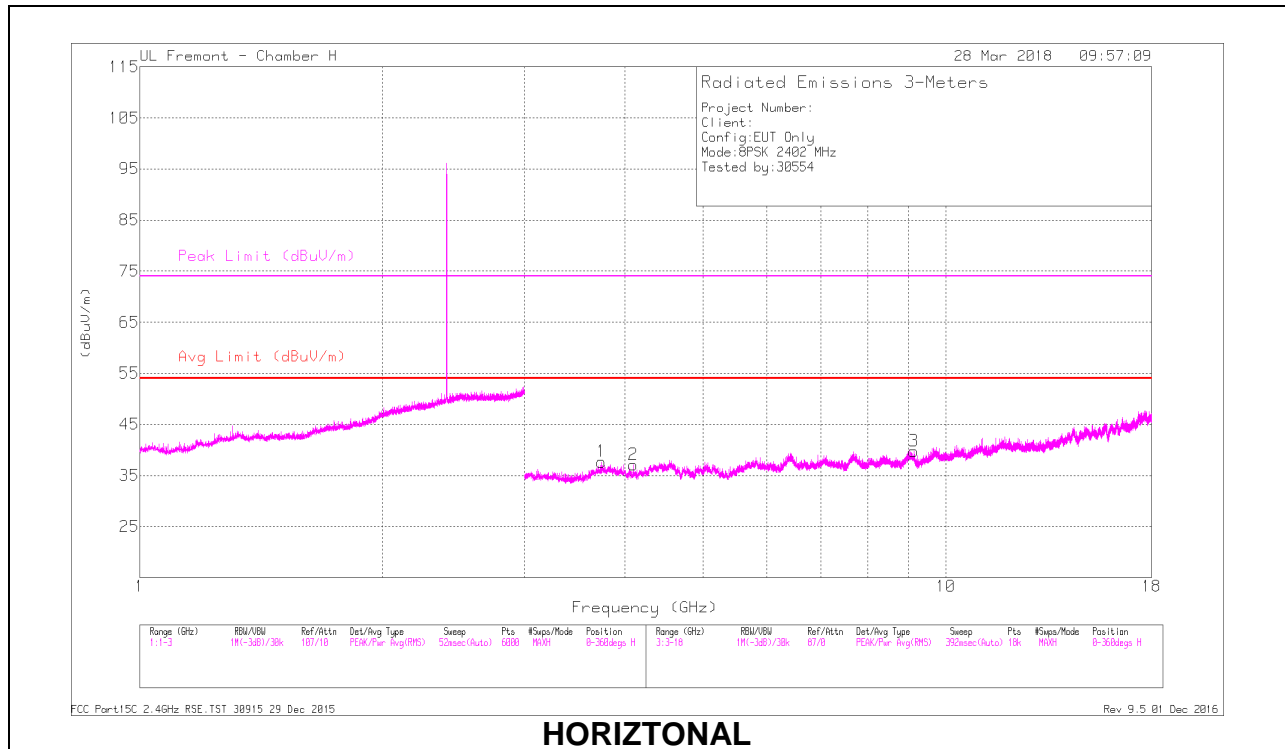
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

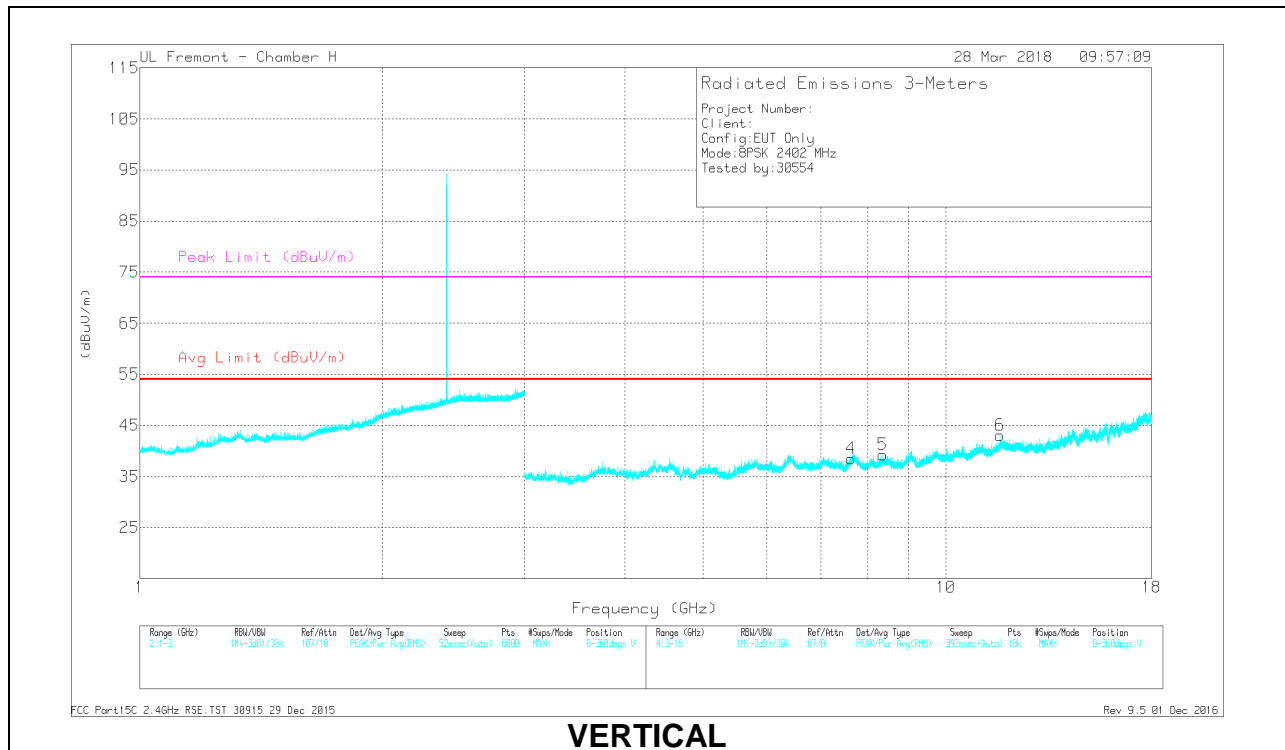
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

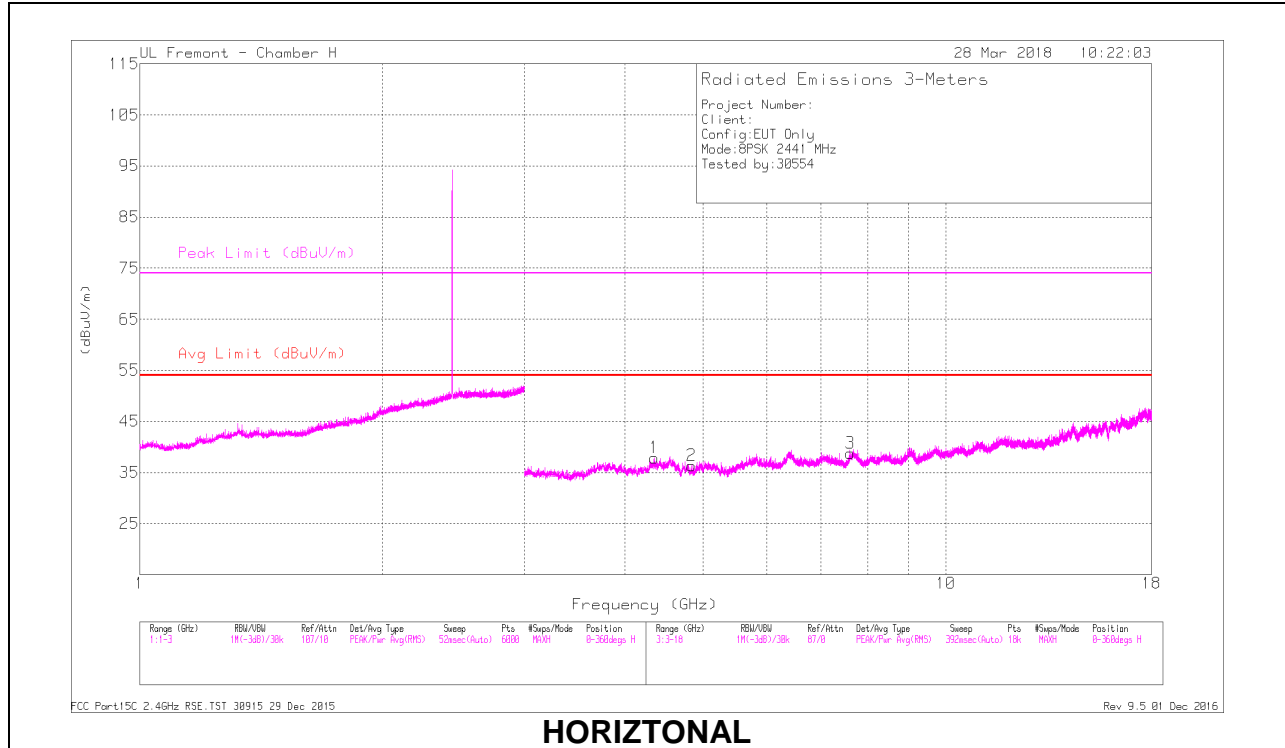
Markers	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.743	44.94	PKFH	33.1	-35.2	42.84	-	-	74	-31.16	69	184	H
	* 3.742	33.02	VA1T	33.1	-35.2	30.92	54	-23.08	-	-	69	184	H
2	* 4.096	42.32	PKFH	33.5	-34.2	41.62	-	-	74	-32.38	55	181	H
	* 4.097	30.39	VA1T	33.5	-34.2	29.69	54	-24.31	-	-	55	181	H
3	* 9.124	36.46	PKFH	36.5	-28.5	44.46	-	-	74	-29.54	221	215	H
	* 9.123	24.69	VA1T	36.5	-28.5	32.69	54	-21.31	-	-	221	215	H
4	* 7.623	37.73	PKFH	36.1	-29.7	44.13	-	-	74	-29.87	285	146	V
	* 7.623	26.35	VA1T	36.1	-29.7	32.75	54	-21.25	-	-	285	146	V
5	* 8.356	38.22	PKFH	36	-29.3	44.92	-	-	74	-29.08	321	189	V
	* 8.357	25.7	VA1T	36	-29.3	32.4	54	-21.6	-	-	321	189	V
6	* 11.678	34.95	PKFH	38.7	-25.9	47.75	-	-	74	-26.25	182	146	V
	* 11.677	23.07	VA1T	38.7	-25.9	35.87	54	-18.13	-	-	182	146	V

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

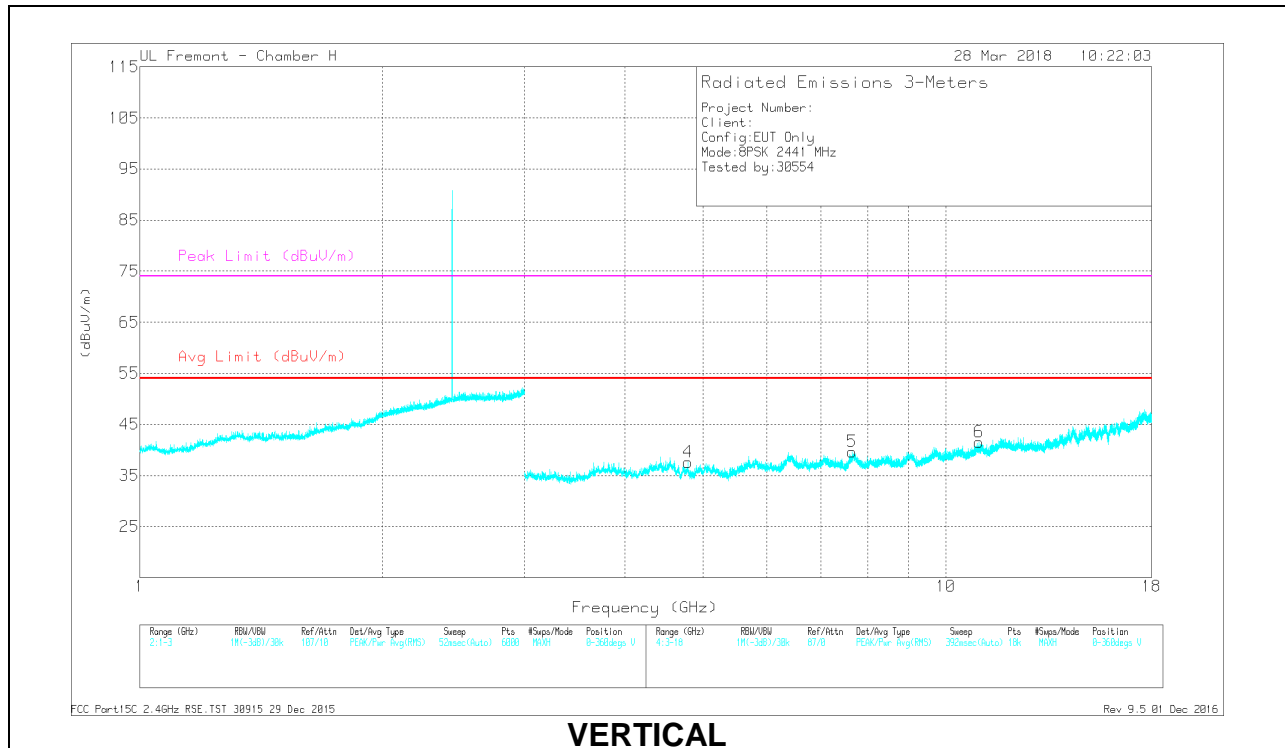
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

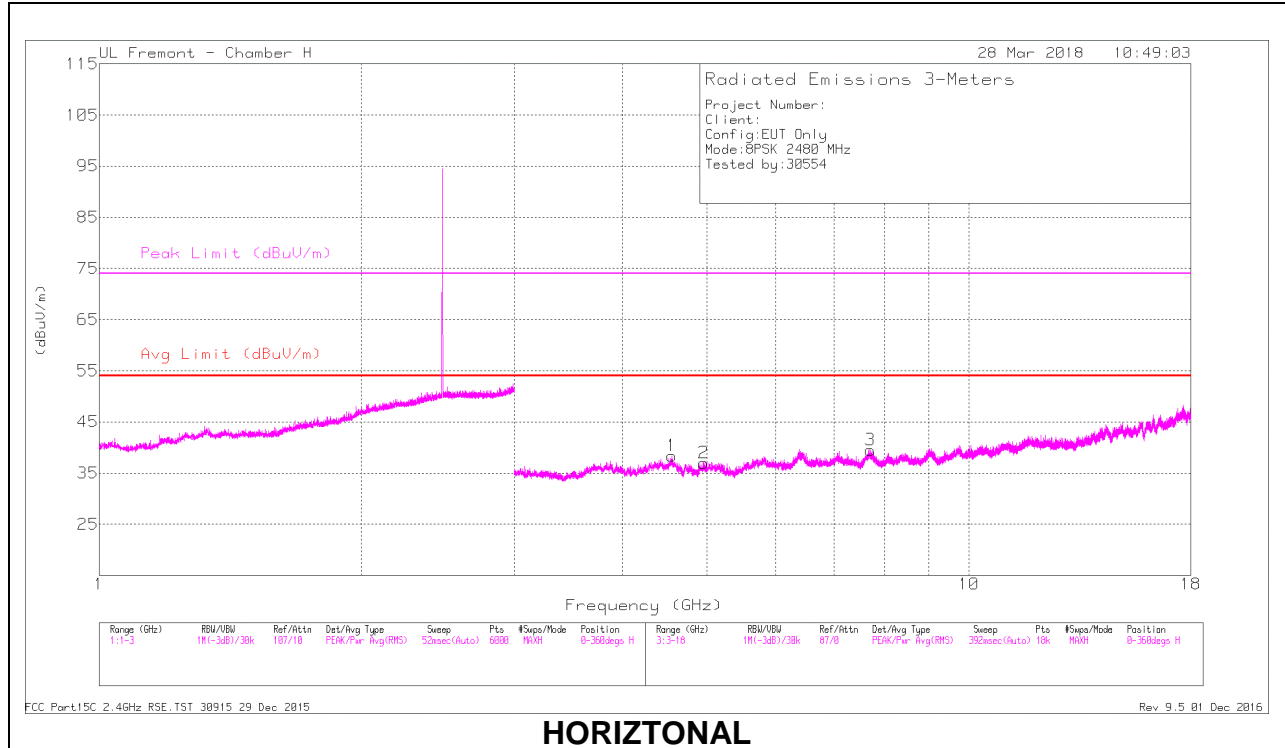
Markers	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.348	43.33	PKFH	33.9	-34.3	42.93	-	-	74	-31.07	25	182	H
	* 4.346	31.74	VA1T	33.9	-34.3	31.34	54	-22.66	-	-	25	182	H
2	* 4.839	43.19	PKFH	34.2	-34.4	42.99	-	-	74	-31.01	331	200	H
	* 4.837	30.39	VA1T	34.2	-34.5	30.09	54	-23.91	-	-	331	200	H
3	* 7.608	37.42	PKFH	36.1	-29.8	43.72	-	-	74	-30.28	228	145	H
	* 7.606	26.39	VA1T	36.1	-29.9	32.59	54	-21.41	-	-	228	145	H
4	* 4.788	42.19	PKFH	34.2	-34.4	41.99	-	-	74	-32.01	159	198	V
	* 4.788	30.24	VA1T	34.2	-34.4	30.04	54	-23.96	-	-	159	198	V
5	* 7.645	38.33	PKFH	36.2	-29.7	44.83	-	-	74	-29.17	172	194	V
	* 7.647	26.41	VA1T	36.2	-29.7	32.91	54	-21.09	-	-	172	194	V
6	* 11.003	35.36	PKFH	38	-27	46.36	-	-	74	-27.64	182	125	V
	* 11.002	24	VA1T	38	-27	35	54	-19	-	-	182	125	V

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

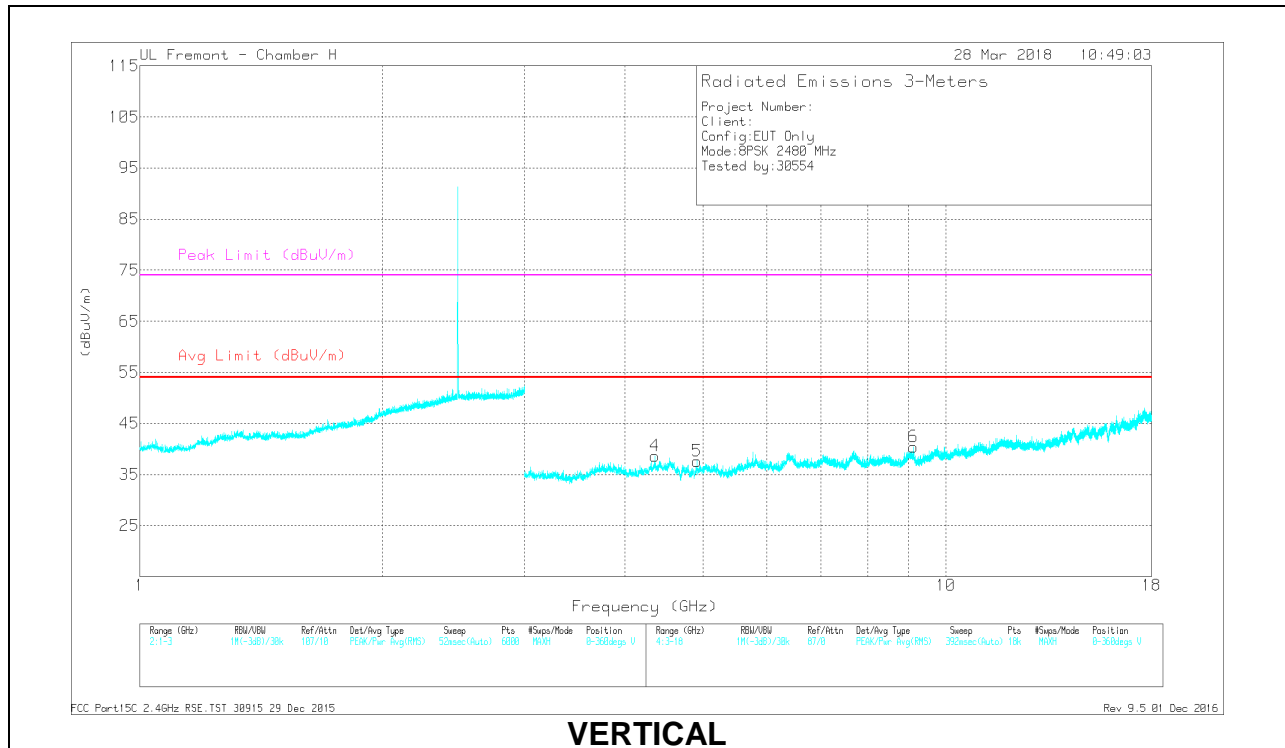
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Markers	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	* 4.553	44.21	PKFH	34.3	-34.6	43.91	-	-	74	-30.09	35	198	H
	* 4.553	31.96	VA1T	34.3	-34.6	31.66	54	-22.34	-	-	35	198	H
2	* 4.958	41.67	PKFH	34.2	-33.7	42.17	-	-	74	-31.83	223	182	H
	* 4.959	30.3	VA1T	34.2	-33.7	30.8	54	-23.2	-	-	223	182	H
3	* 7.702	38.9	PKFH	36.2	-30	45.1	-	-	74	-28.9	155	225	H
	* 7.703	26.75	VA1T	36.2	-30	32.95	54	-21.05	-	-	155	225	H
4	* 4.359	43.23	PKFH	33.9	-34.2	42.93	-	-	74	-31.07	198	328	V
	* 4.358	31.51	VA1T	33.9	-34.2	31.21	54	-22.79	-	-	198	328	V
5	* 4.914	43	PKFH	34.2	-34	43.2	-	-	74	-30.8	186	128	V
	* 4.912	30.07	VA1T	34.2	-34	30.27	54	-23.73	-	-	186	128	V
6	* 9.115	36.86	PKFH	36.6	-28.5	44.96	-	-	74	-29.04	225	147	V
	* 9.113	24.8	VA1T	36.6	-28.5	32.9	54	-21.1	-	-	225	147	V

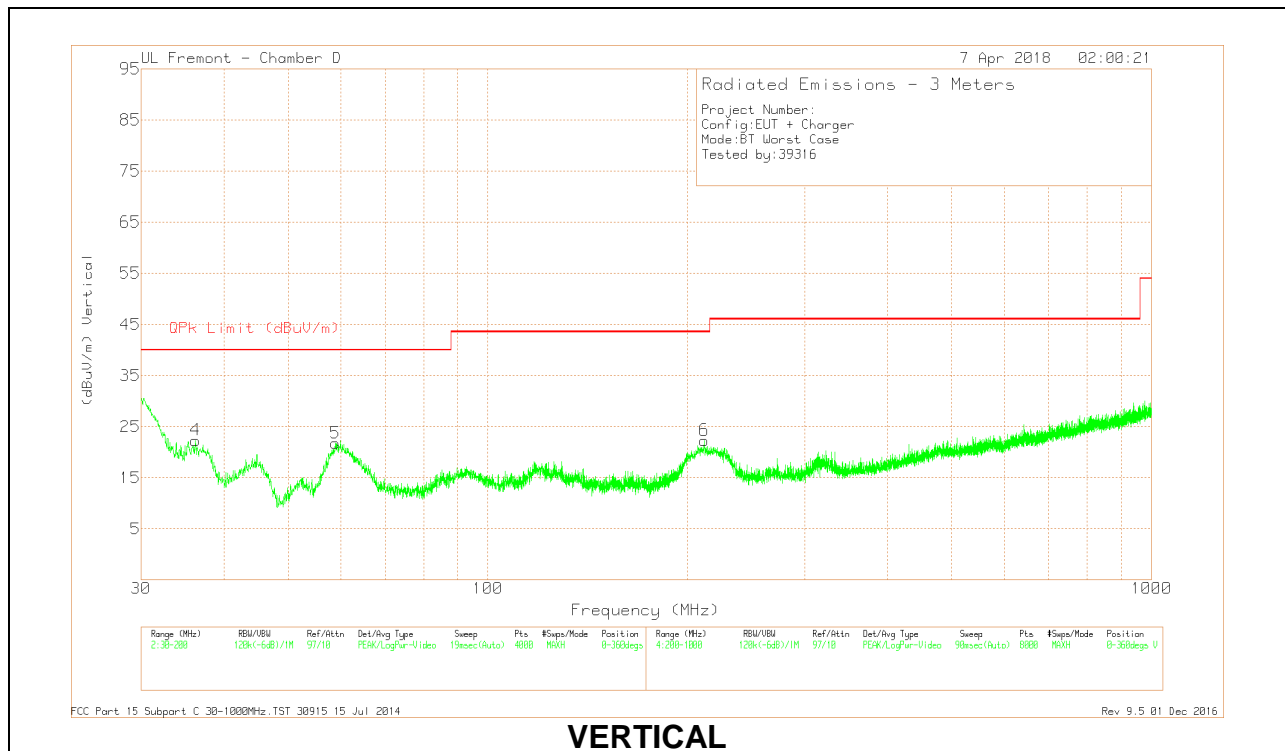
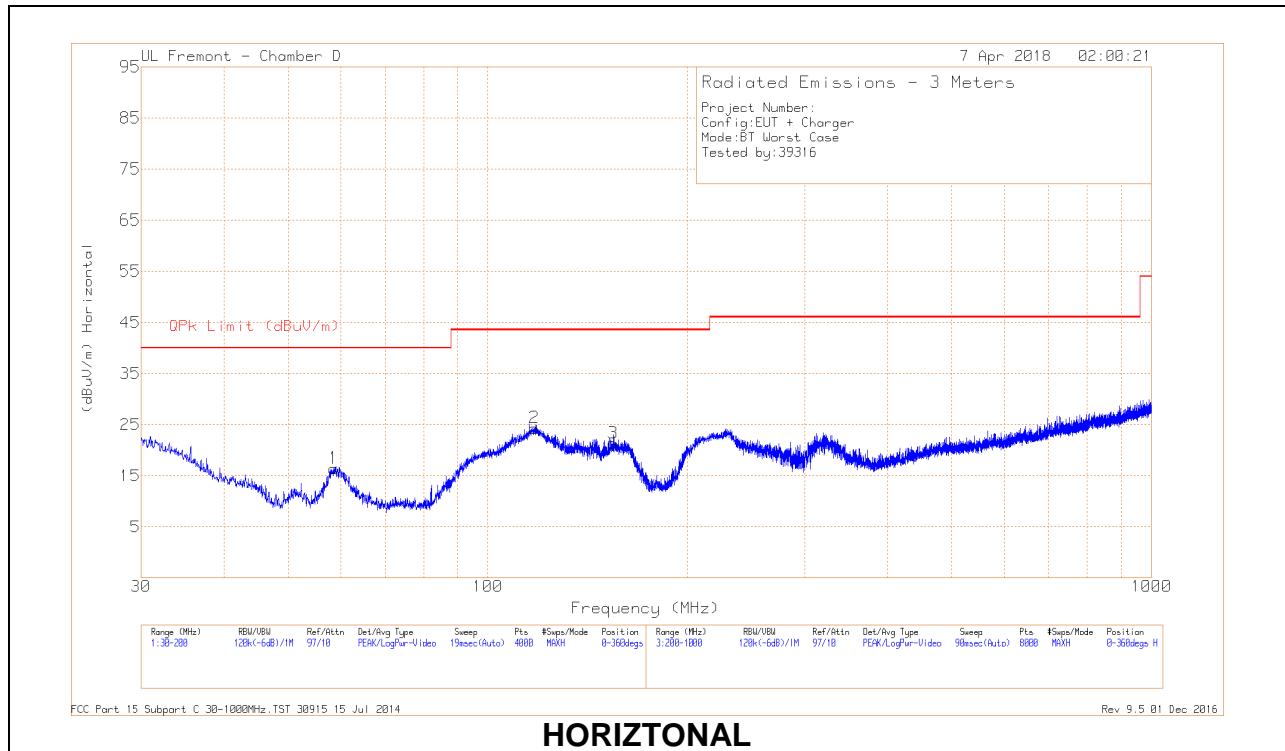
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

9.2. Worst Case Below 1 GHz

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



Below 1GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 117.4876	37.54	Pk	18.1	-31.3	24.34	43.52	-19.18	0-360	199	H
4	36.2491	33.14	Pk	21	-31.8	22.34	40	-17.66	0-360	100	V
1	58.5249	35.95	Pk	12.2	-31.7	16.45	40	-23.55	0-360	399	H
5	58.865	41.19	Pk	12.2	-31.6	21.79	40	-18.21	0-360	100	V
3	154.3872	35.9	Pk	16.6	-31.1	21.4	43.52	-22.12	0-360	199	H
6	211.8015	38.22	Pk	14.9	-30.8	22.32	43.52	-21.2	0-360	101	V

9.3. Worst Case 18-26 GHz

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

HORIZONTAL AND VERTICAL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T89 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	18.357	38	Pk	32.4	-25.1	-9.5	35.8	54	-18.2	74	-38.2
4	18.405	37.15	Pk	32.4	-25.1	-9.5	34.95	54	-19.05	74	-39.05
5	20.988	38.5	Pk	32.4	-25.6	-9.5	35.8	54	-18.2	74	-38.2
2	21.534	38.49	Pk	33	-25.2	-9.5	36.79	54	-17.21	74	-37.21
6	22.973	38.48	Pk	33.5	-25.1	-9.5	37.38	54	-16.62	74	-36.62
3	23.509	39.24	Pk	33.2	-24.7	-9.5	38.24	54	-15.76	74	-35.76

Pk - Peak detector

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Rev 9.5 01 Dec 2016

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

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

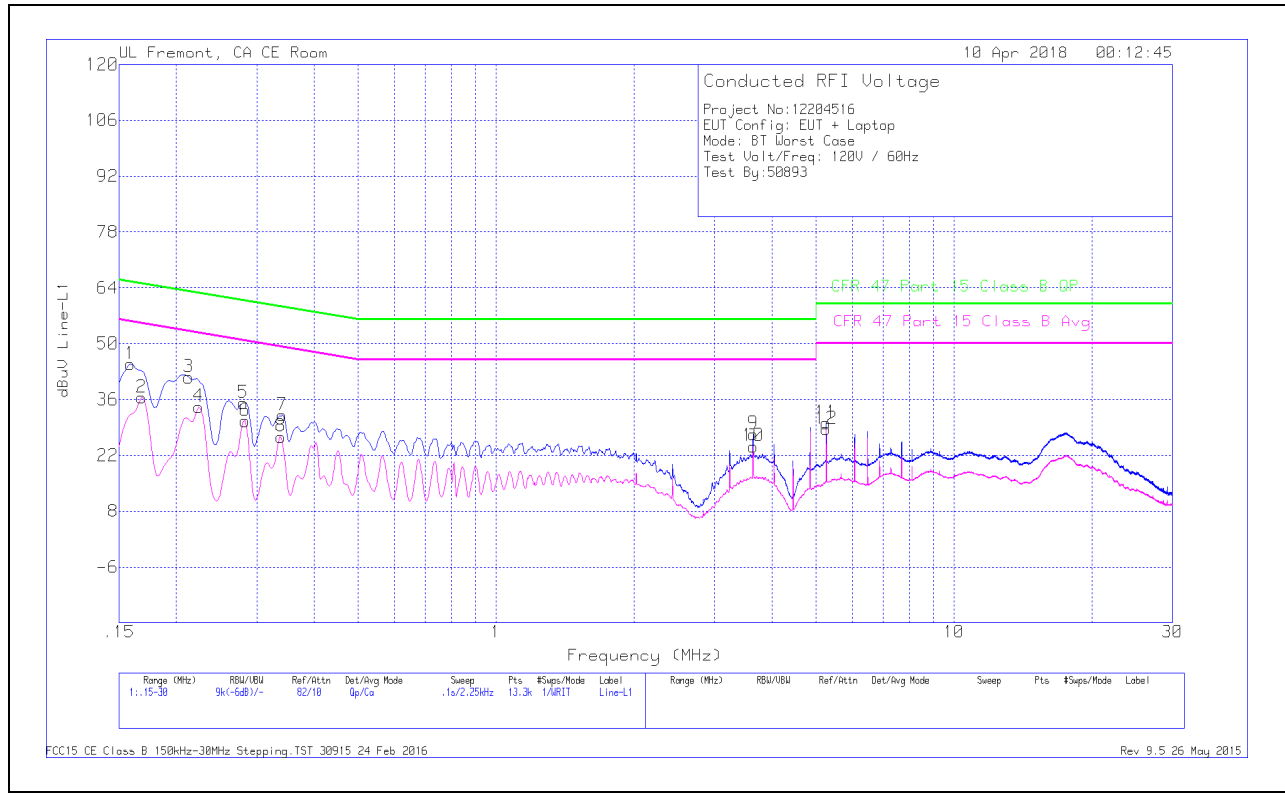
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

10.1.1. AC Power Line Host

LINE 1 RESULTS

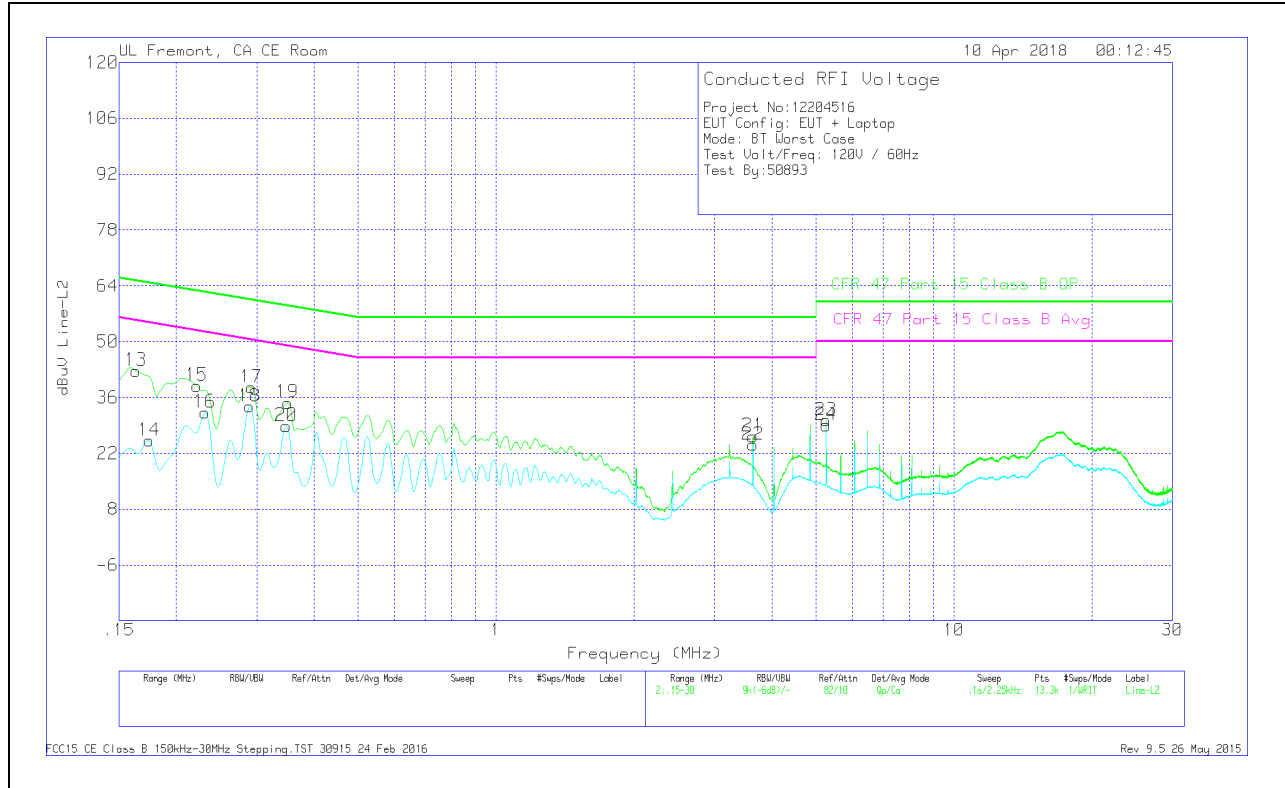


Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.159	34.64	Qp	.1	0	10.1	44.84	65.52	-20.68	-	-
2	.168	26.29	Ca	.1	0	10.1	36.49	-	-	55.06	-18.57
3	.213	31.47	Qp	0	0	10.1	41.57	63.09	-21.52	-	-
4	.22425	24.06	Ca	0	0	10.1	34.16	-	-	52.66	-18.5
5	.2805	25.04	Qp	0	0	10.1	35.14	60.8	-25.66	-	-
6	.28275	20.53	Ca	0	0	10.1	30.63	-	-	50.73	-20.1
7	.34125	21.94	Qp	0	0	10.1	32.04	59.17	-27.13	-	-
8	.339	16.56	Ca	0	0	10.1	26.66	-	-	49.23	-22.57
9	3.642	17.13	Qp	0	.1	10.1	27.33	56	-28.67	-	-
10	3.642	14.06	Ca	0	.1	10.1	24.26	-	-	46	-21.74
11	5.25975	19.9	Qp	0	.1	10.1	30.1	60	-29.9	-	-
12	5.25975	18.39	Ca	0	.1	10.1	28.59	-	-	50	-21.41

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



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	.1635	32.6	Qp	0	0	10.1	42.7	65.28	-22.58	-	-
14	.17475	15.08	Ca	0	0	10.1	25.18	-	-	54.73	-29.55
15	.222	28.83	Qp	0	0	10.1	38.93	62.74	-23.81	-	-
16	.231	22.15	Ca	0	0	10.1	32.25	-	-	52.41	-20.16
17	.29175	28.44	Qp	0	0	10.1	38.54	60.47	-21.93	-	-
18	.2895	23.63	Ca	0	0	10.1	33.73	-	-	50.54	-16.81
19	.35025	24.59	Qp	0	0	10.1	34.69	58.96	-24.27	-	-
20	.348	18.73	Ca	0	0	10.1	28.83	-	-	49.01	-20.18
21	3.63975	16.09	Qp	0	.1	10.1	26.29	56	-29.71	-	-
22	3.63975	13.94	Ca	0	.1	10.1	24.14	-	-	46	-21.86
23	5.2575	20.13	Qp	0	.1	10.1	30.33	60	-29.67	-	-
24	5.2575	18.87	Ca	0	.1	10.1	29.07	-	-	50	-20.93

Qp - Quasi-Peak detector

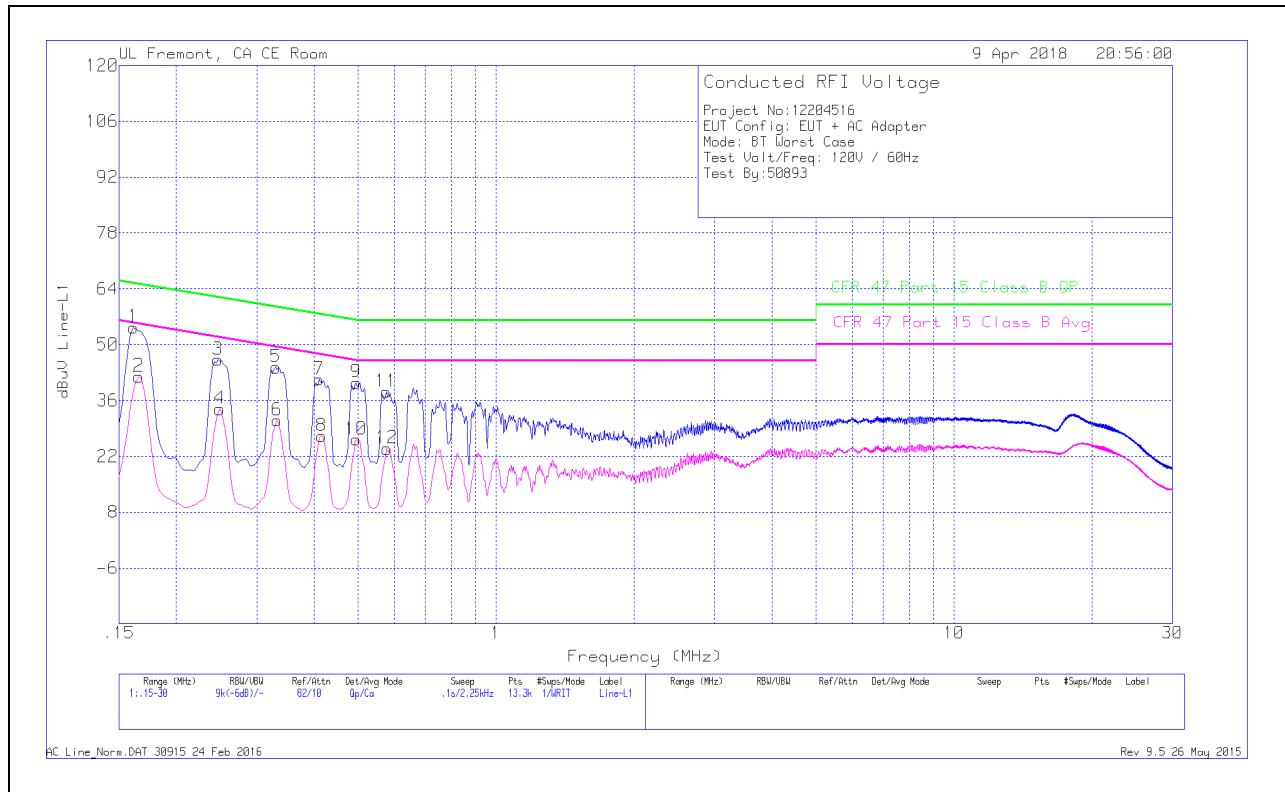
Ca - CISPR average detection

FCC15 CE Class B 150kHz-30MHz Stepping.TST 30915 24 Feb 2016

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10.1.2. AC Power Line Norm

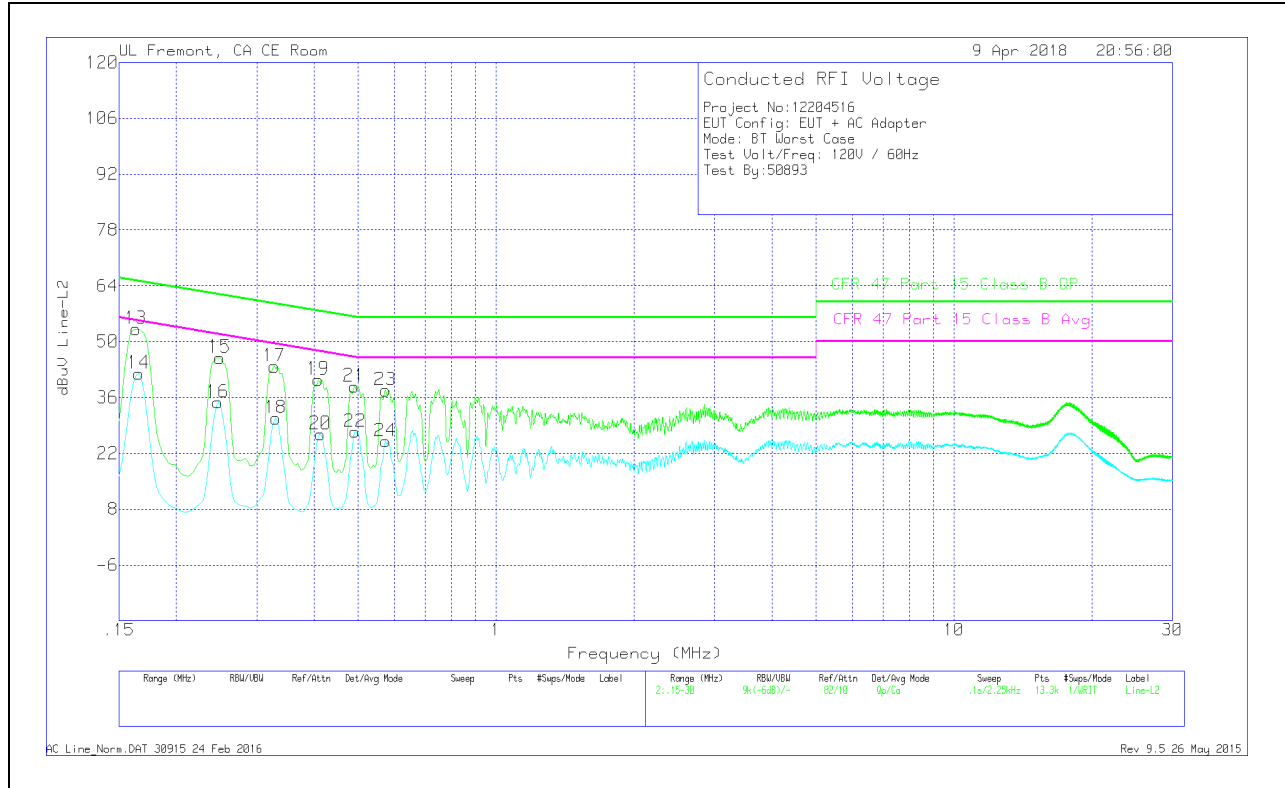
LINE 1 RESULTS



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	.16125	44.12	Qp	.1	0	10.1	54.32	65.4	-11.08	-	-
2	.16575	31.8	Ca	.1	0	10.1	42	-	-	55.17	-13.17
3	.24675	36.12	Qp	0	0	10.1	46.22	61.87	-15.65	-	-
4	.249	23.77	Ca	0	0	10.1	33.87	-	-	51.79	-17.92
5	.33	34.2	Qp	0	0	10.1	44.3	59.45	-15.15	-	-
6	.33225	20.88	Ca	0	0	10.1	30.98	-	-	49.39	-18.41
7	.411	31.14	Qp	0	0	10.1	41.24	57.63	-16.39	-	-
8	.4155	16.98	Ca	0	0	10.1	27.08	-	-	47.54	-20.46
9	.49425	30.41	Qp	0	0	10.1	40.51	56.1	-15.59	-	-
10	.49425	16.09	Ca	0	0	10.1	26.19	-	-	46.1	-19.91
11	.57525	28.06	Qp	0	0	10.1	38.16	56	-17.84	-	-
12	.5775	13.83	Ca	0	0	10.1	23.93	-	-	46	-22.07

LINE 2 RESULTS



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	.1635	43.08	Qp	0	0	10.1	53.18	65.28	-12.1	-	-
14	.16575	31.92	Ca	0	0	10.1	42.02	-	-	55.17	-13.15
15	.249	35.85	Qp	0	0	10.1	45.95	61.79	-15.84	-	-
16	.24675	24.64	Ca	0	0	10.1	34.74	-	-	51.87	-17.13
17	.32775	33.68	Qp	0	0	10.1	43.78	59.51	-15.73	-	-
18	.33	20.69	Ca	0	0	10.1	30.79	-	-	49.45	-18.66
19	.40875	30.4	Qp	0	0	10.1	40.5	57.67	-17.17	-	-
20	.41325	16.69	Ca	0	0	10.1	26.79	-	-	47.58	-20.79
21	.48975	28.69	Qp	0	0	10.1	38.79	56.17	-17.38	-	-
22	.492	17.31	Ca	0	0	10.1	27.41	-	-	46.13	-18.72
23	.573	27.7	Qp	0	0	10.1	37.8	56	-18.2	-	-
24	.573	14.93	Ca	0	0	10.1	25.03	-	-	46	-20.97

END OF REPORT

11. SETUP PHOTOS

Please refer to 12204512-EP1V1 for setup photos