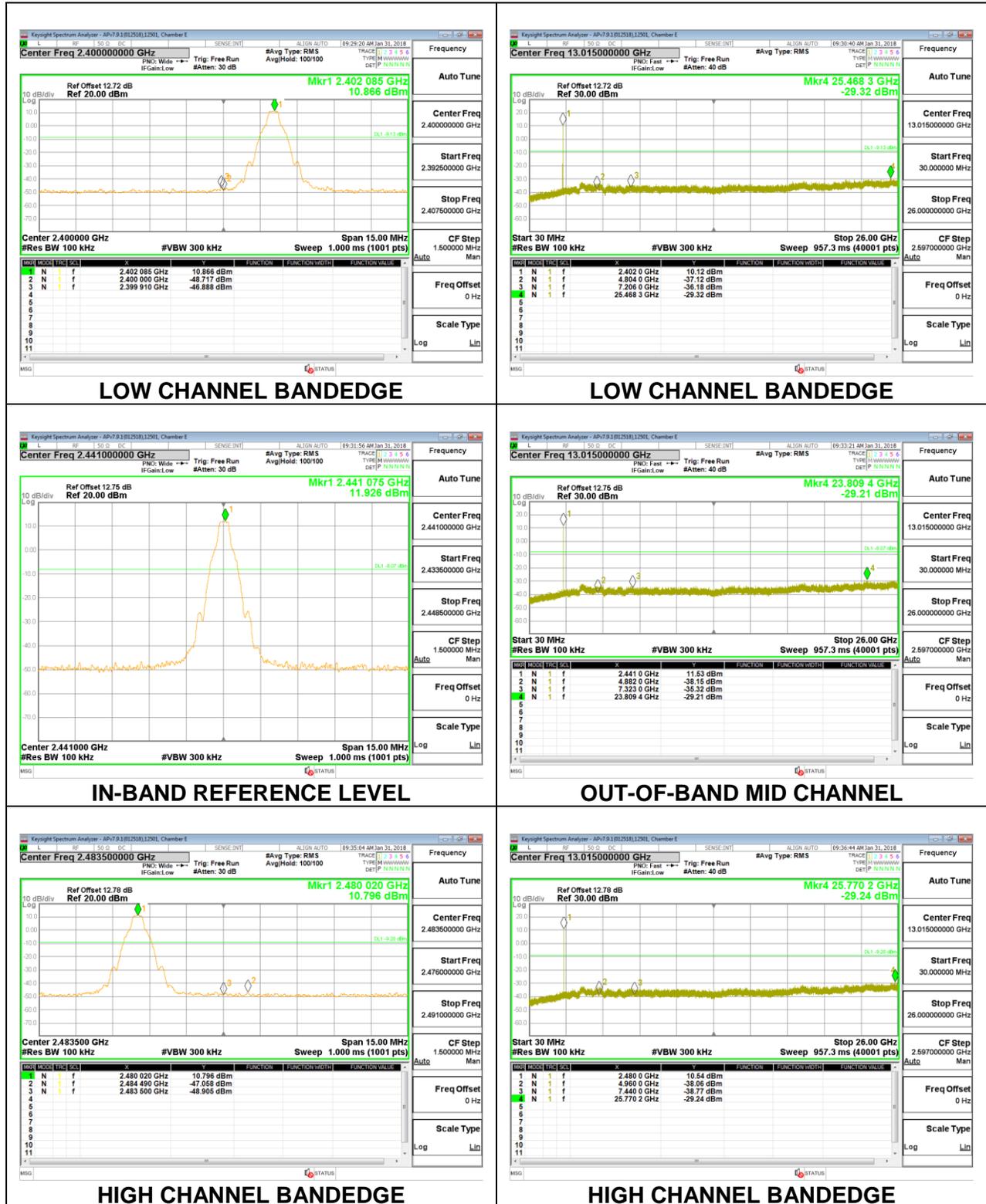


8.8.3. LOW POWER BASIC DATA RATE GFSK MODULATION

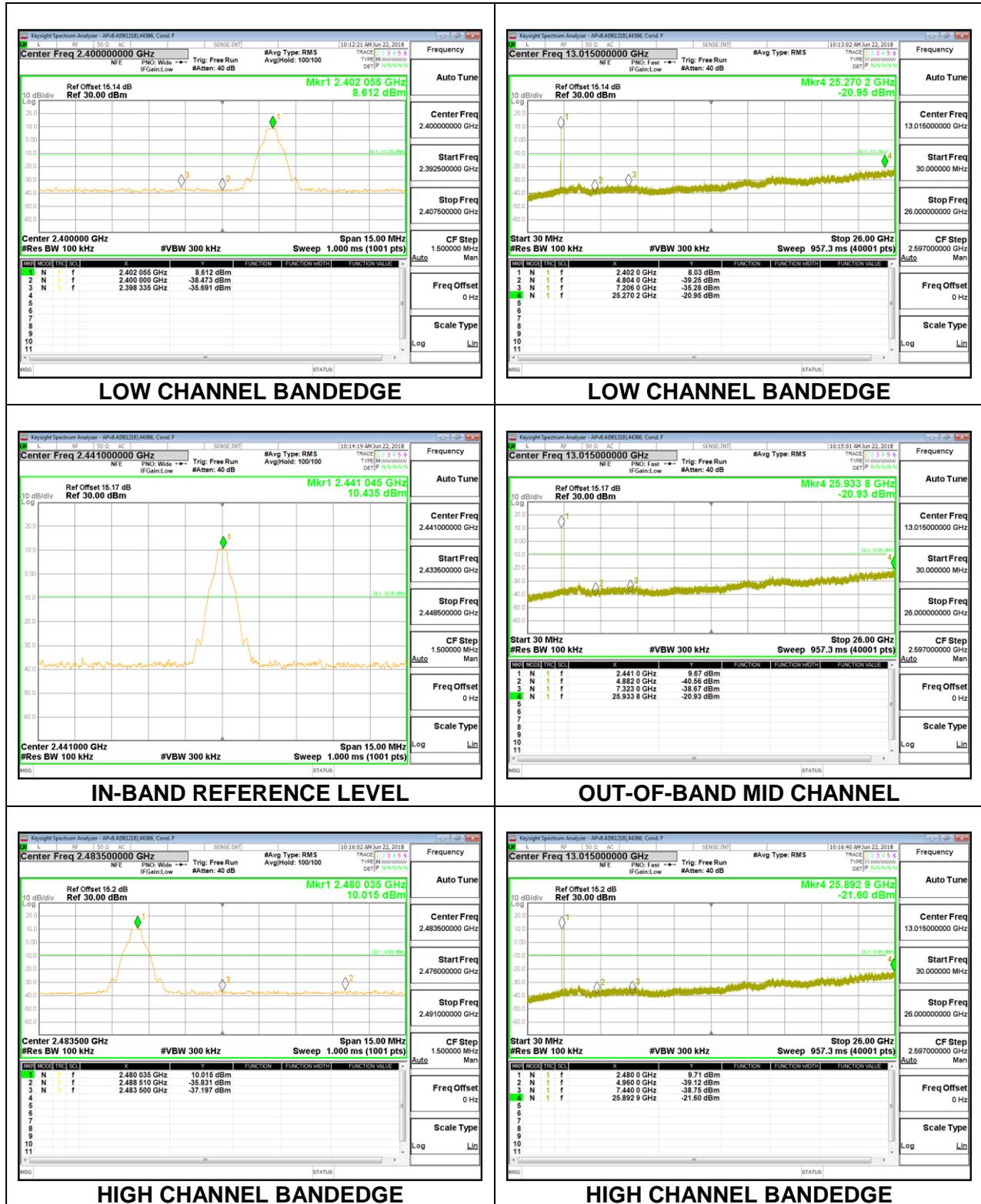
Antenna 4 SPURIOUS EMISSIONS, NON-HOPPING



Antenna 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



Antenna 3 SPURIOUS EMISSIONS, NON-HOPPING



Antenna 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



8.8.4. LOW POWER ENCHANCED DATA RATE 8PSK MODULATION

Antenna 4 SPURIOUS EMISSIONS, NON-HOPPING



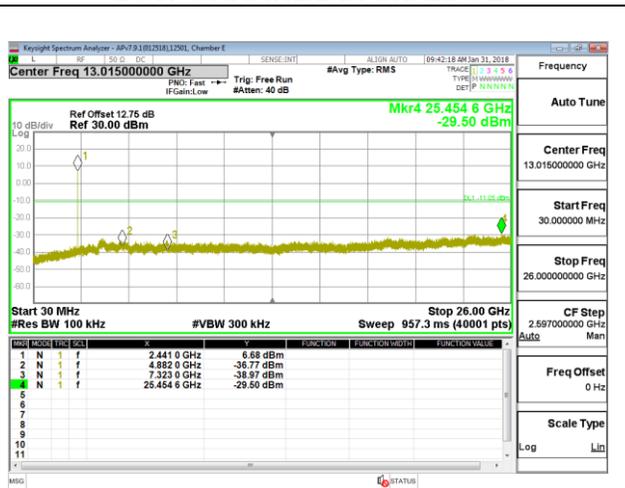
LOW CHANNEL BANDEDGE



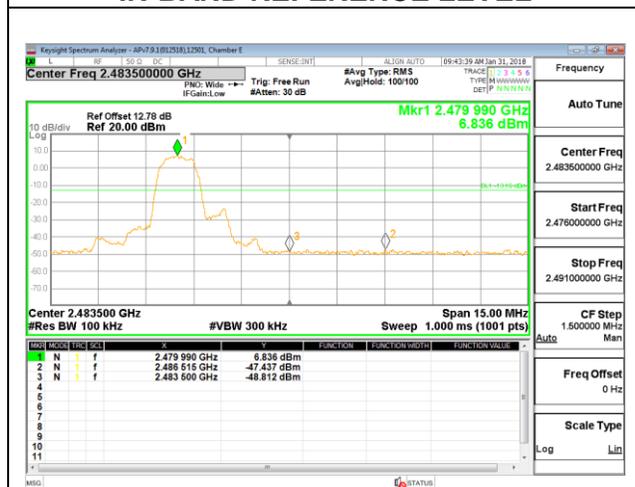
LOW CHANNEL BANDEDGE



IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL

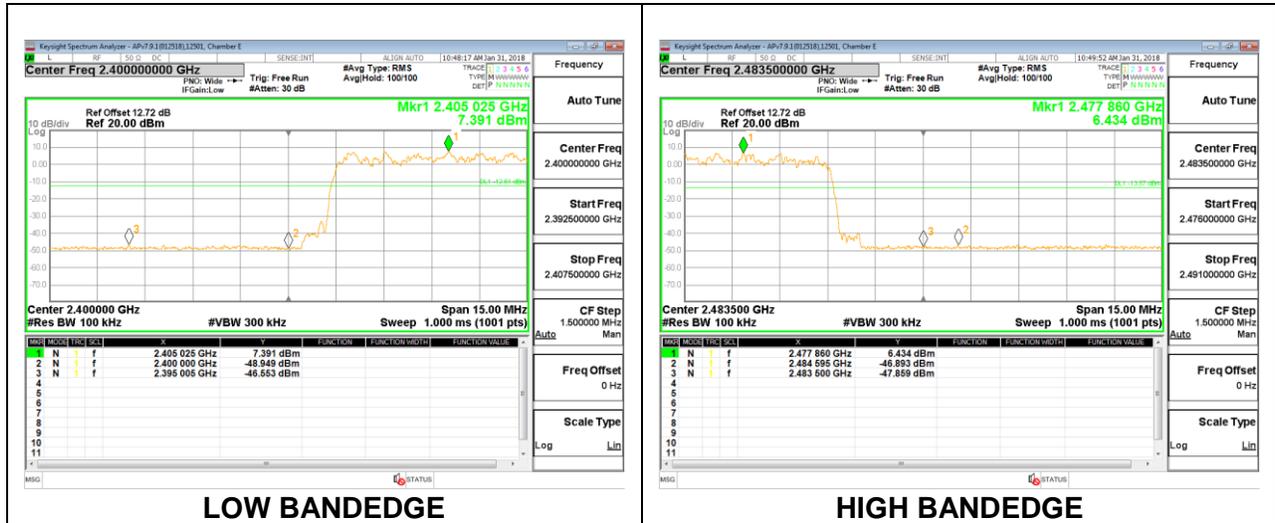


HIGH CHANNEL BANDEDGE



HIGH CHANNEL BANDEDGE

Antenna 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



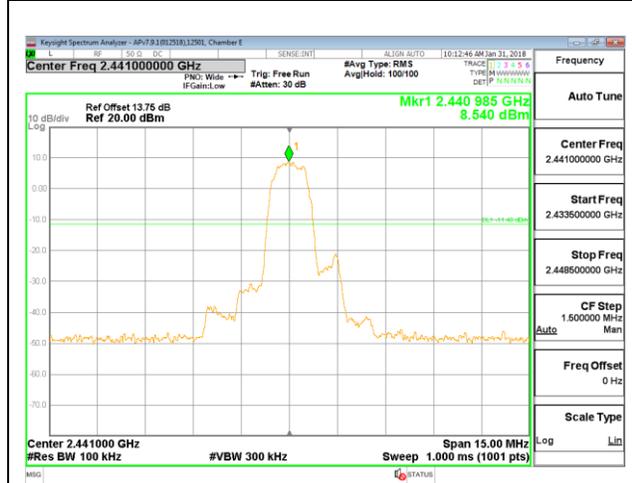
Antenna 3 SPURIOUS EMISSIONS, NON-HOPPING



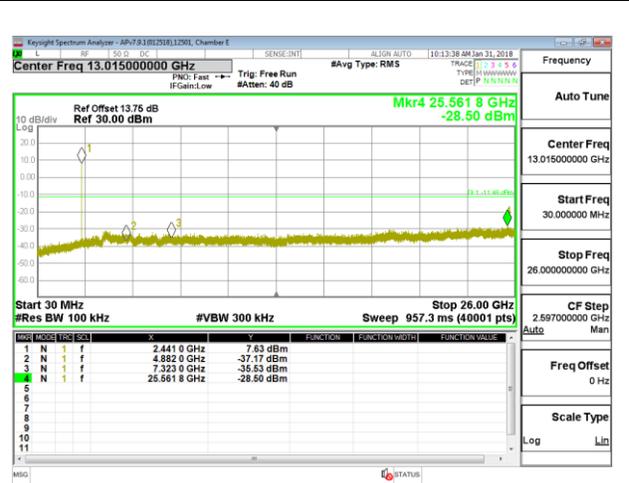
LOW CHANNEL BANDEDGE



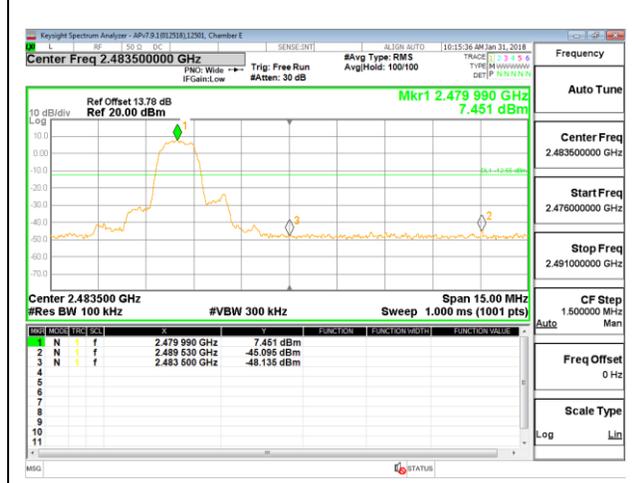
LOW CHANNEL BANDEDGE



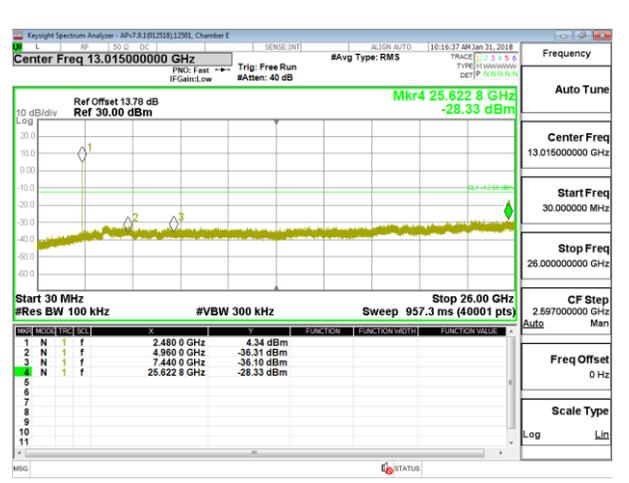
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL BANDEDGE



HIGH CHANNEL BANDEDGE

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.

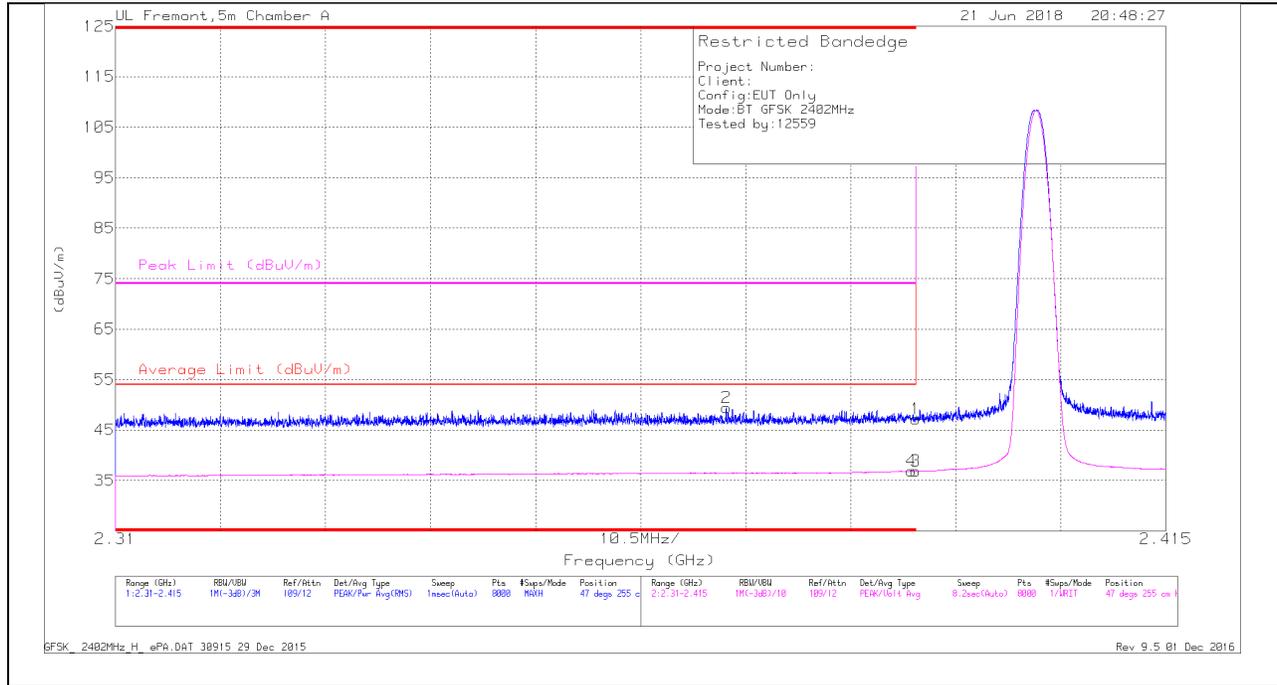
9.1. TRANSMITTER ABOVE 1 GHz

9.1.1. HIGH POWER BASIC DATA RATE GFSK MODULATION

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



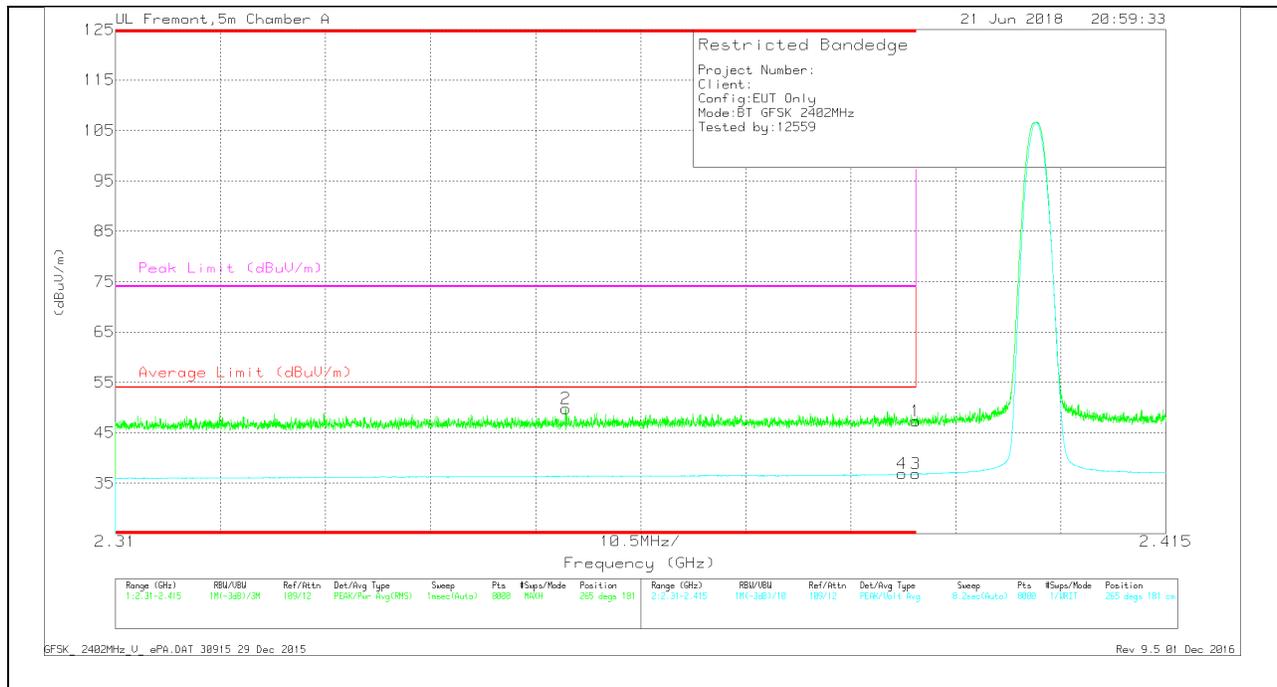
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Par d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.371	40.7	Pk	31.7	-23	49.4	-	-	74	-24.6	47	255	H
1	* 2.39	38.38	PK	31.8	-23	47.18	-	-	74	-26.82	47	255	H
3	* 2.39	28.04	VA1T	31.8	-23	36.84	54	-17.16	-	-	47	255	H
4	* 2.39	28.06	VA1T	31.8	-23	36.86	54	-17.14	-	-	47	255	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

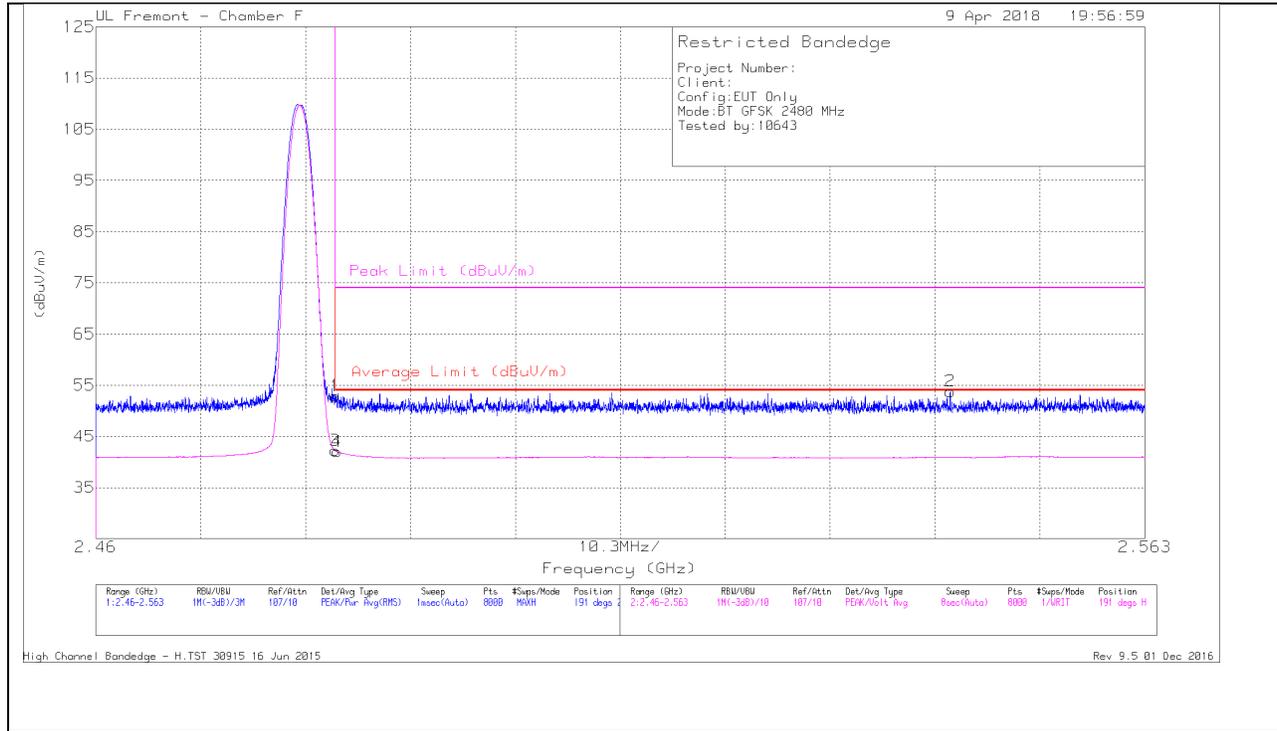


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.355	41.19	Pk	31.6	-23	49.79	-	-	74	-24.21	265	181	V
4	* 2.389	28.03	VA1T	31.8	-23	36.83	54	-17.17	-	-	265	181	V
1	* 2.39	38.46	Pk	31.8	-23	47.26	-	-	74	-26.74	265	181	V
3	* 2.39	28.04	VA1T	31.8	-23	36.84	54	-17.16	-	-	265	181	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 T119 (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	41.51	Pk	32.1	-20.7	52.91	-	-	74	-21.09	191	240	H
2	2.544	42.31	Pk	32.2	-20.7	53.81	-	-	74	-20.19	191	240	H
3	* 2.484	30.84	VA1T	32.1	-20.7	42.24	54	-11.76	-	-	191	240	H
4	* 2.484	30.62	VA1T	32.1	-20.7	42.02	54	-11.98	-	-	191	240	H

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

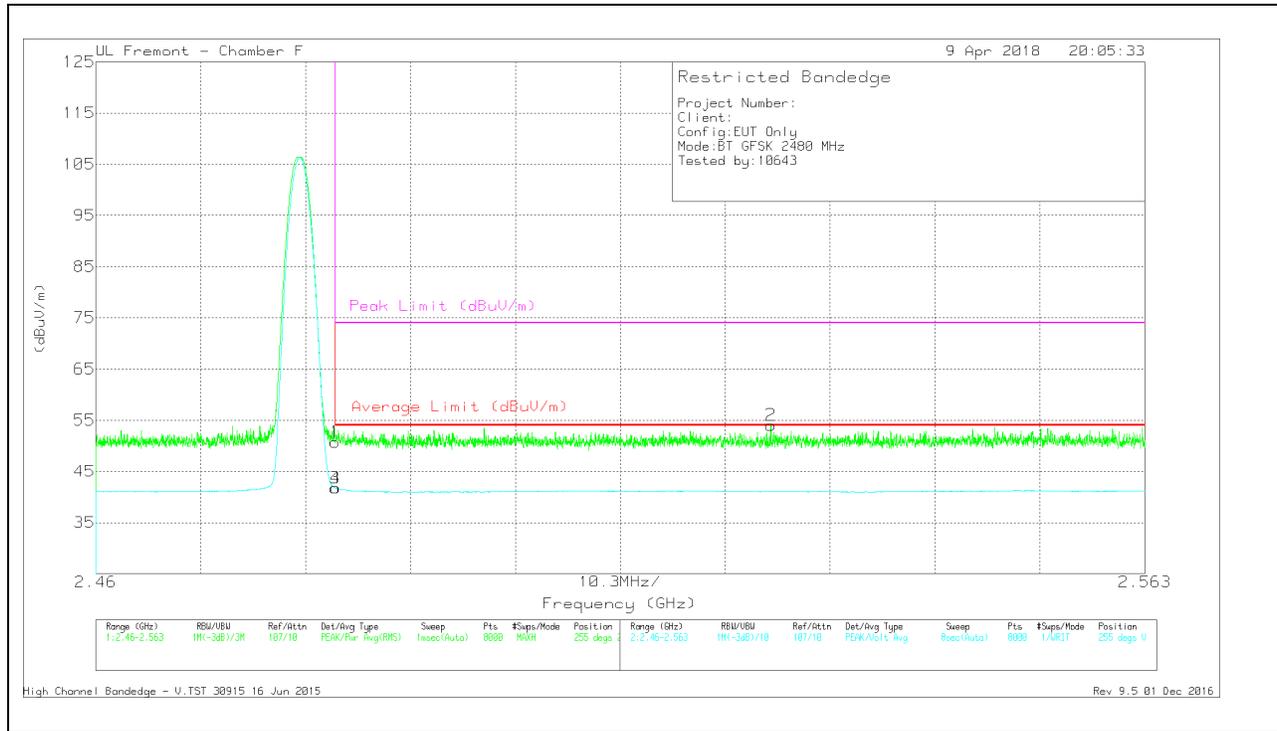
Pk - Peak detector

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

High Channel Bandedge - H.TST 30915 16 Jun 2015

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	39.33	Pk	32.1	-20.7	50.73	-	-	74	-23.27	255	224	V
2	2.526	42.51	Pk	32.2	-20.7	54.01	-	-	74	-19.99	255	224	V
3	* 2.484	30.38	VA1T	32.1	-20.7	41.78	54	-12.22	-	-	255	224	V
4	* 2.484	30.35	VA1T	32.1	-20.7	41.75	54	-12.25	-	-	255	224	V

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

Pk - Peak detector

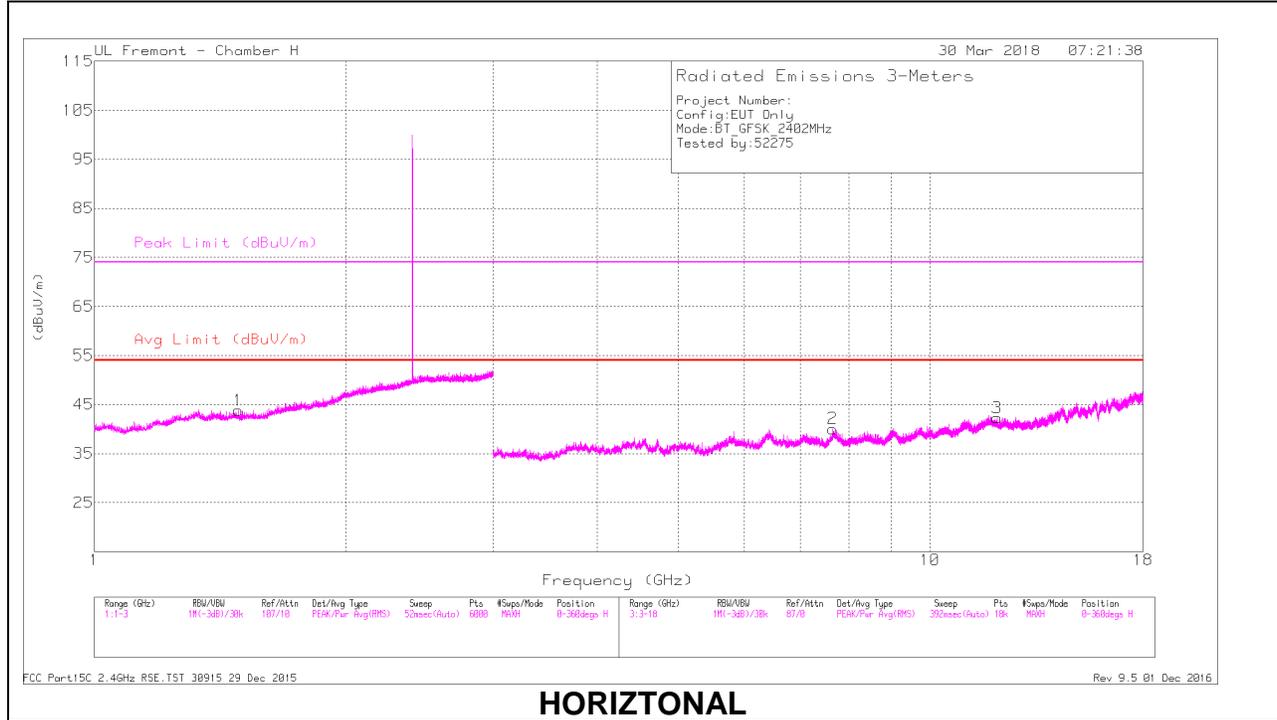
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

High Channel Bandedge - V.TST 30915 16 Jun 2015

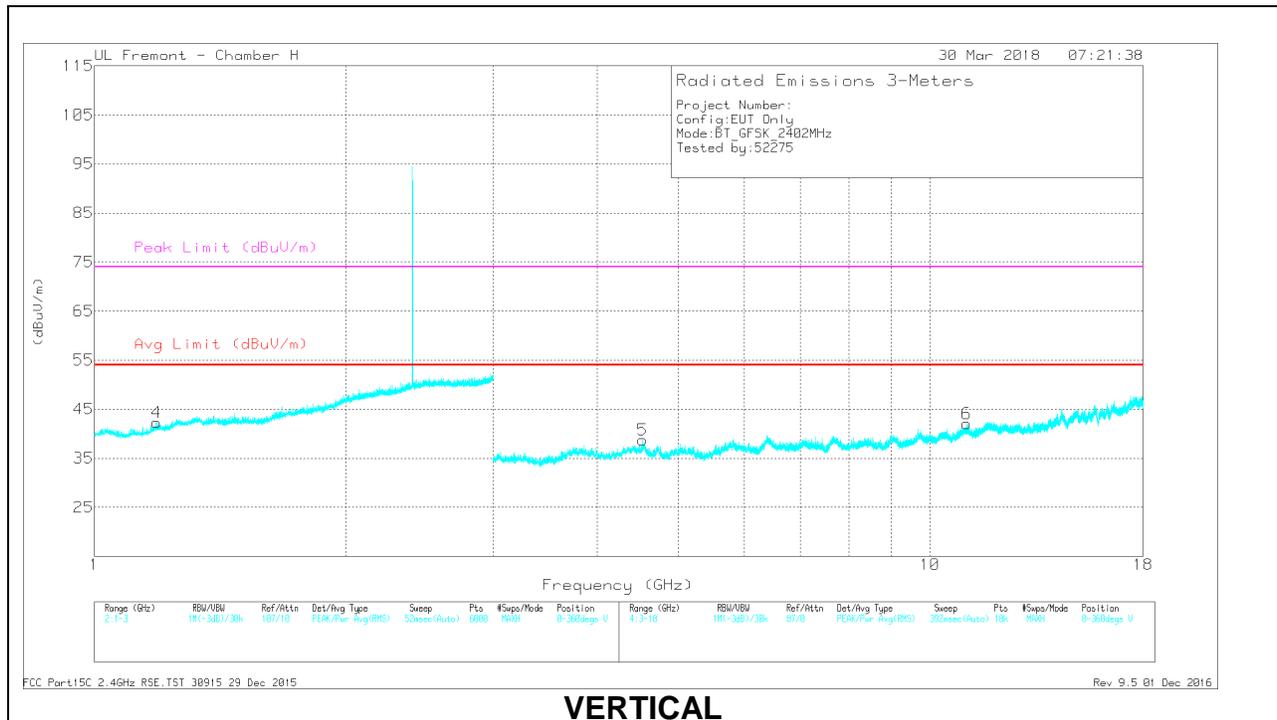
Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

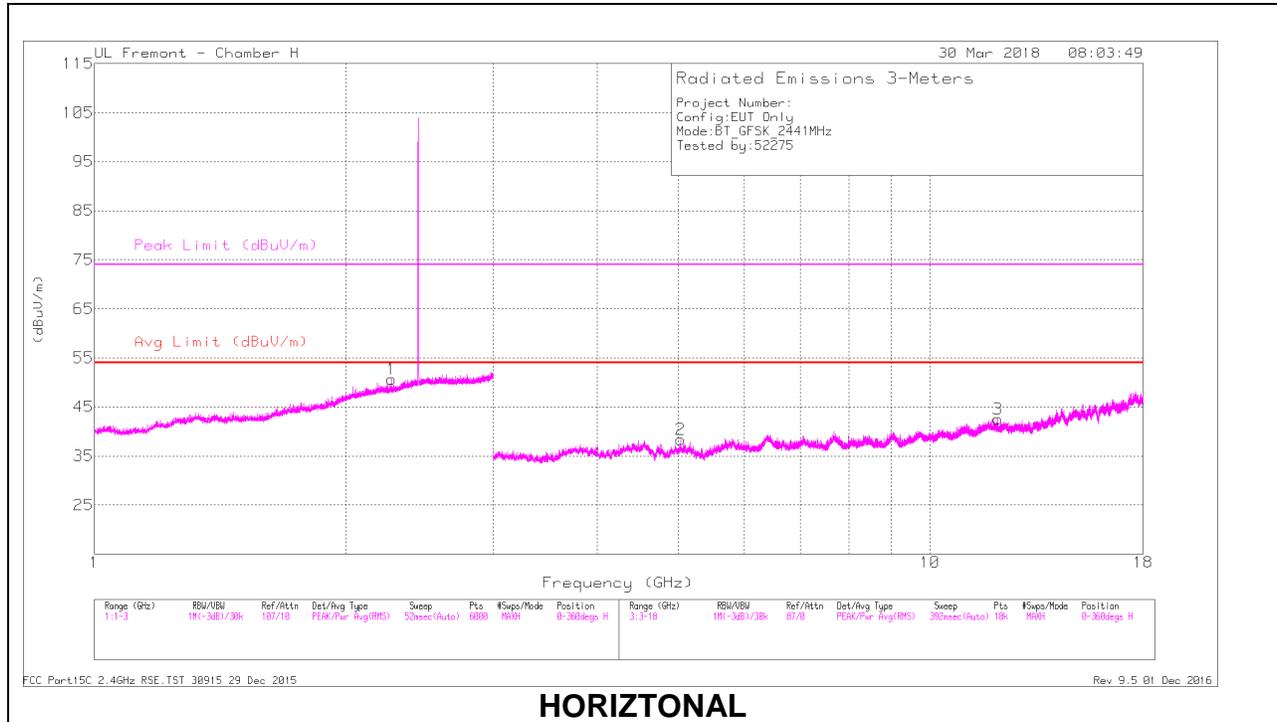
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.487	35.27	PKFH	28.5	-15.3	48.47	-	-	74	-25.53	165	365	H
	* 1.486	23.67	VA1T	28.5	-15.3	36.87	54	-17.13	-	-	165	365	H
2	* 7.656	38.43	PKFH	36.2	-29.5	45.13	-	-	74	-28.87	151	289	H
	* 7.656	26.36	VA1T	36.2	-29.5	33.06	54	-20.94	-	-	151	289	H
3	* 12.033	34.39	PKFH	39.3	-25.9	47.79	-	-	74	-26.21	174	384	H
	* 12.03	22.72	VA1T	39.3	-25.9	36.12	54	-17.88	-	-	174	384	H
4	* 1.187	35.75	PKFH	27.8	-15.9	47.65	-	-	74	-26.35	4	363	V
	* 1.186	24.12	VA1T	27.8	-15.9	36.02	54	-17.98	-	-	4	363	V
5	* 4.532	43.3	PKFH	34.3	-34.7	42.9	-	-	74	-31.1	350	389	V
	* 4.534	31.84	VA1T	34.3	-34.7	31.44	54	-22.56	-	-	350	389	V
6	* 11.059	35.6	PKFH	38.2	-26.9	46.9	-	-	74	-27.1	341	325	V
	* 11.061	24.01	VA1T	38.2	-26.9	35.31	54	-18.69	-	-	341	325	V

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

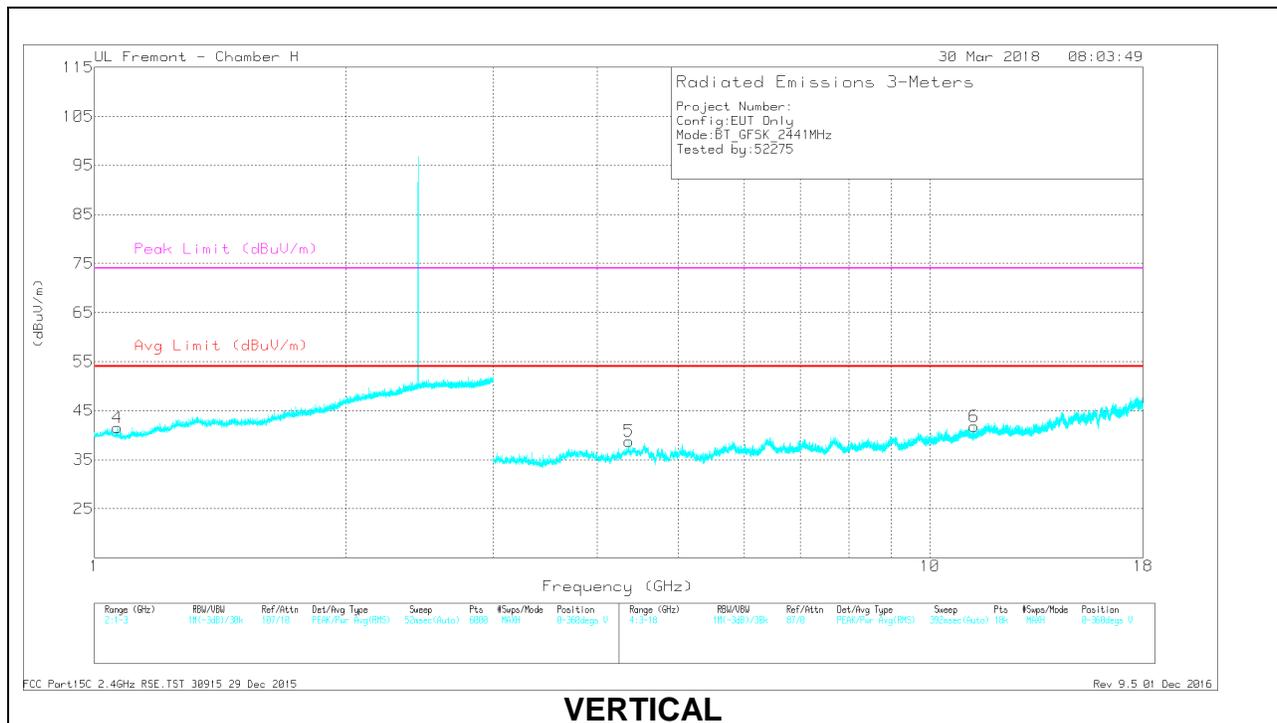
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

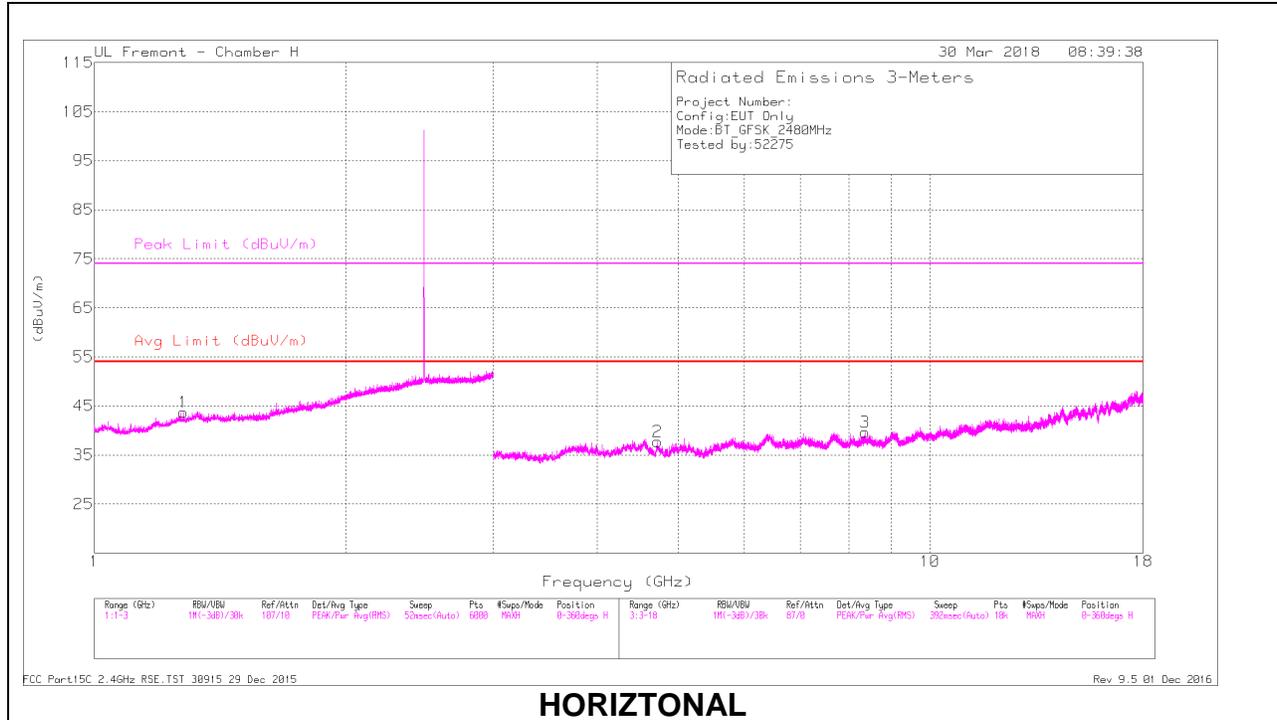
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.271	36.43	PKFH	31.9	-14.2	54.13	-	-	74	-19.87	5	342	H
	* 2.27	24.66	VA1T	31.9	-14.2	42.36	54	-11.64	-	-	5	342	H
2	* 5.035	42.06	PKFH	34.1	-33.6	42.56	-	-	74	-31.44	20	201	H
	* 5.034	30.29	VA1T	34.1	-33.6	30.79	54	-23.21	-	-	20	201	H
3	* 12.062	34.71	PKFH	39.1	-25.9	47.91	-	-	74	-26.09	303	297	H
	* 12.06	22.44	VA1T	39.1	-25.9	35.64	54	-18.36	-	-	303	297	H
4	* 1.068	34.83	PKFH	27.1	-16	45.93	-	-	74	-28.07	118	262	V
	* 1.064	23.47	VA1T	27.1	-16	34.57	54	-19.43	-	-	118	262	V
5	* 4.364	43.09	PKFH	33.9	-34.1	42.89	-	-	74	-31.11	285	173	V
	* 4.365	31.55	VA1T	33.9	-34.1	31.35	54	-22.65	-	-	285	173	V
6	* 11.294	35.57	PKFH	38.1	-26.4	47.27	-	-	74	-26.73	28	331	V
	* 11.296	23.1	VA1T	38.1	-26.4	34.8	54	-19.2	-	-	28	331	V

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

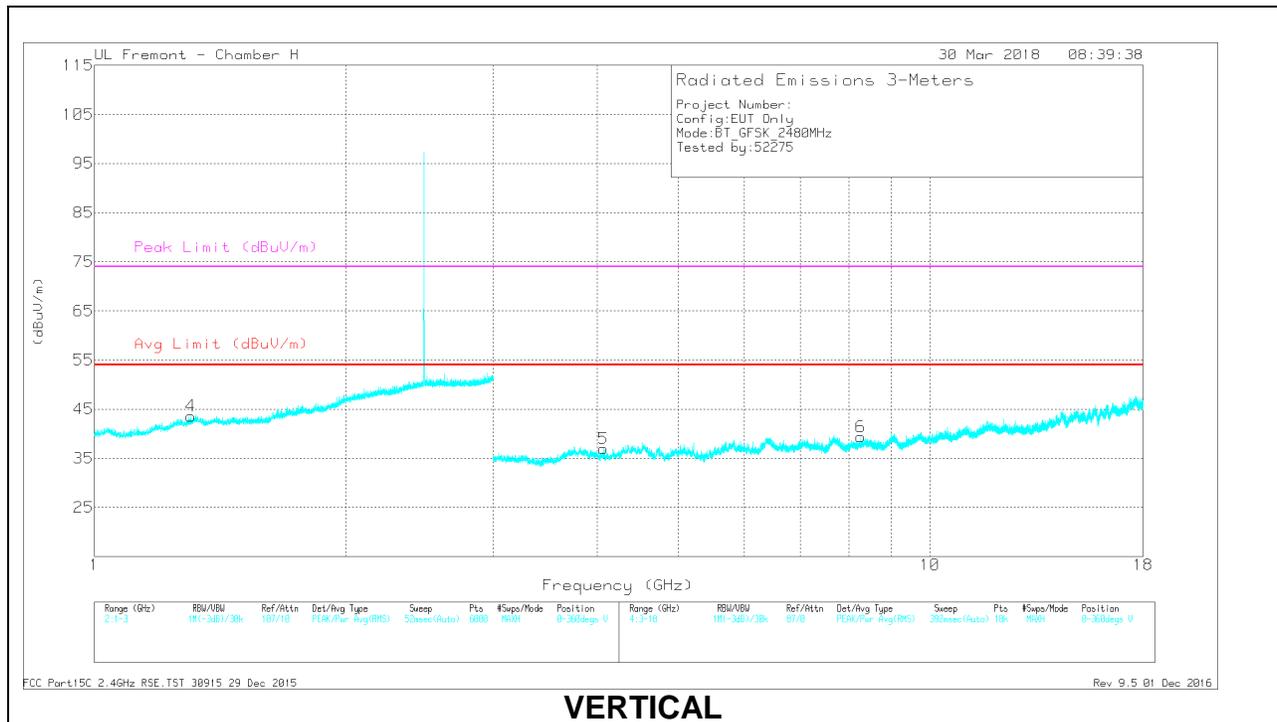
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/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	* 1.277	35.05	PKFH	28.9	-15.9	48.05	-	-	74	-25.95	12	264	H
	* 1.277	23.73	VA1T	28.9	-15.9	36.73	54	-17.27	-	-	12	264	H
2	* 4.721	41.53	PKFH	34.1	-33.9	41.73	-	-	74	-32.27	15	135	H
	* 4.721	29.45	VA1T	34.1	-33.9	29.65	54	-24.35	-	-	15	135	H
3	* 8.362	37.36	PKFH	36	-29.2	44.16	-	-	74	-29.84	271	125	H
	* 8.361	25.66	VA1T	36	-29.3	32.36	54	-21.64	-	-	271	125	H
4	* 1.304	35.05	PKFH	29.2	-15.9	48.35	-	-	74	-25.65	202	384	V
	* 1.306	23.54	VA1T	29.2	-15.9	36.84	54	-17.16	-	-	202	384	V
5	* 4.069	42.72	PKFH	33.5	-34.2	42.02	-	-	74	-31.98	346	223	V
	* 4.067	30.66	VA1T	33.5	-34.2	29.96	54	-24.04	-	-	346	223	V
6	* 8.269	37.4	PKFH	36.1	-29.6	43.9	-	-	74	-30.1	321	308	V
	* 8.271	25.77	VA1T	36.1	-29.6	32.27	54	-21.73	-	-	321	308	V

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

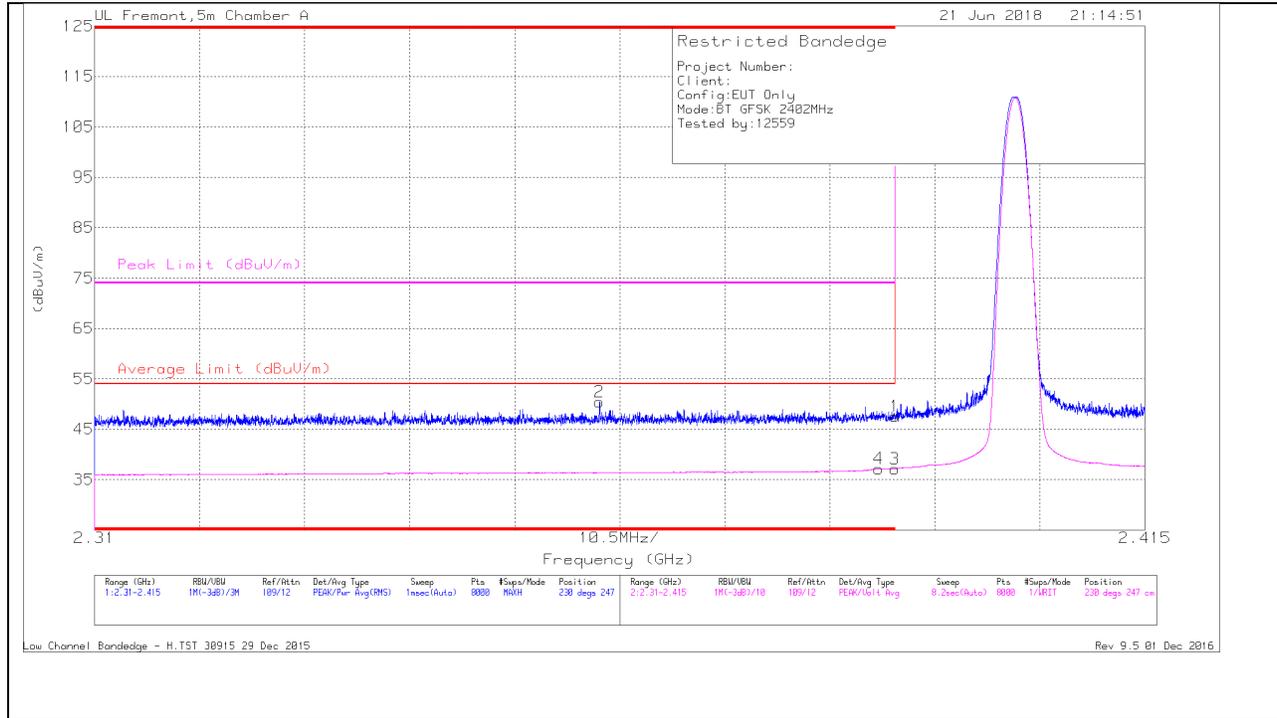
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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	AFT862 (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	38.72	Pk	31.8	-23	47.52	-	-	74	-26.48	230	247	H
2	* 2.36	41.85	Pk	31.6	-23	50.45	-	-	74	-23.55	230	247	H
3	* 2.39	28.35	VA1T	31.8	-23	37.15	54	-16.85	74	-36.85	230	247	H
4	* 2.388	28.39	VA1T	31.8	-23	37.19	54	-16.81	74	-36.81	230	247	H

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

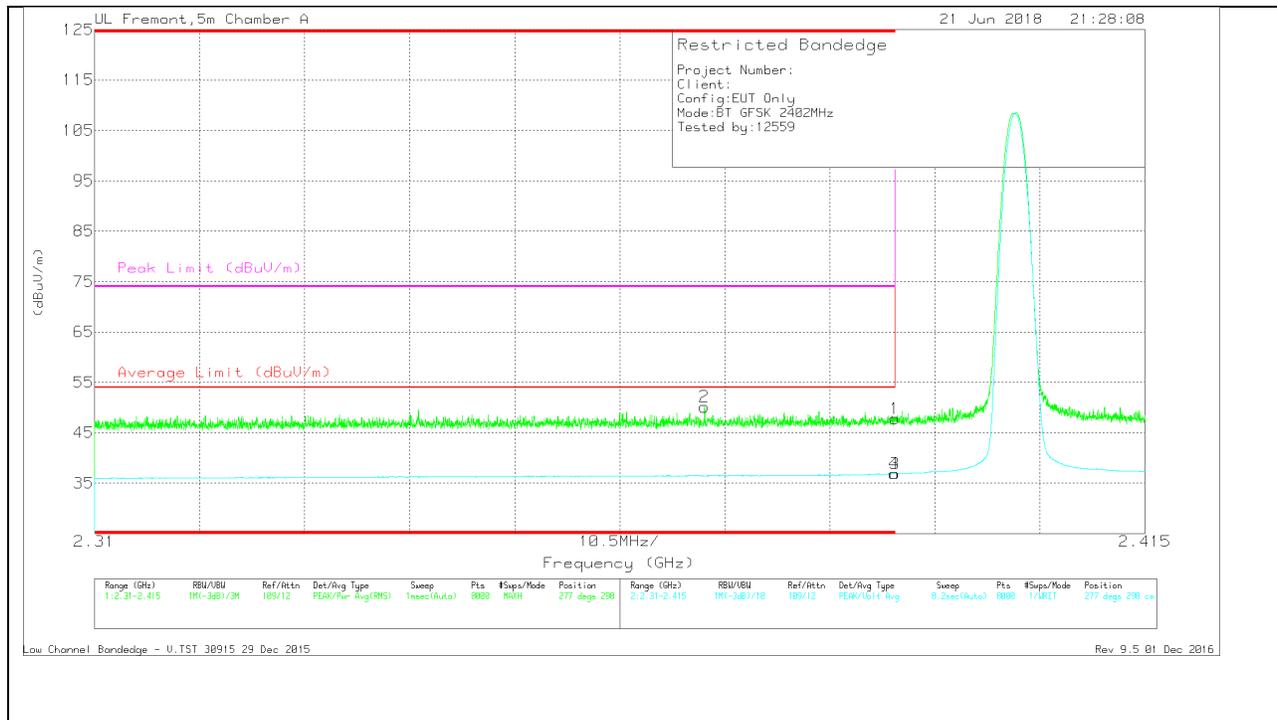
Pk - Peak detector

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

Low Channel Bondedge - H.TST 30915 11 May 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cb/Fitr/Pa d (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	41.41	Pk	31.7	-23	50.11	-	-	74	-23.89	277	298	V
1	* 2.39	39.03	Pk	31.8	-23	47.83	-	-	74	-26.17	277	298	V
3	* 2.39	28.04	VA1T	31.8	-23	36.84	54	-17.16	74	-37.16	277	298	V
4	* 2.39	28.06	VA1T	31.8	-23	36.86	54	-17.14	74	-37.14	277	298	V

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

Pk - Peak detector

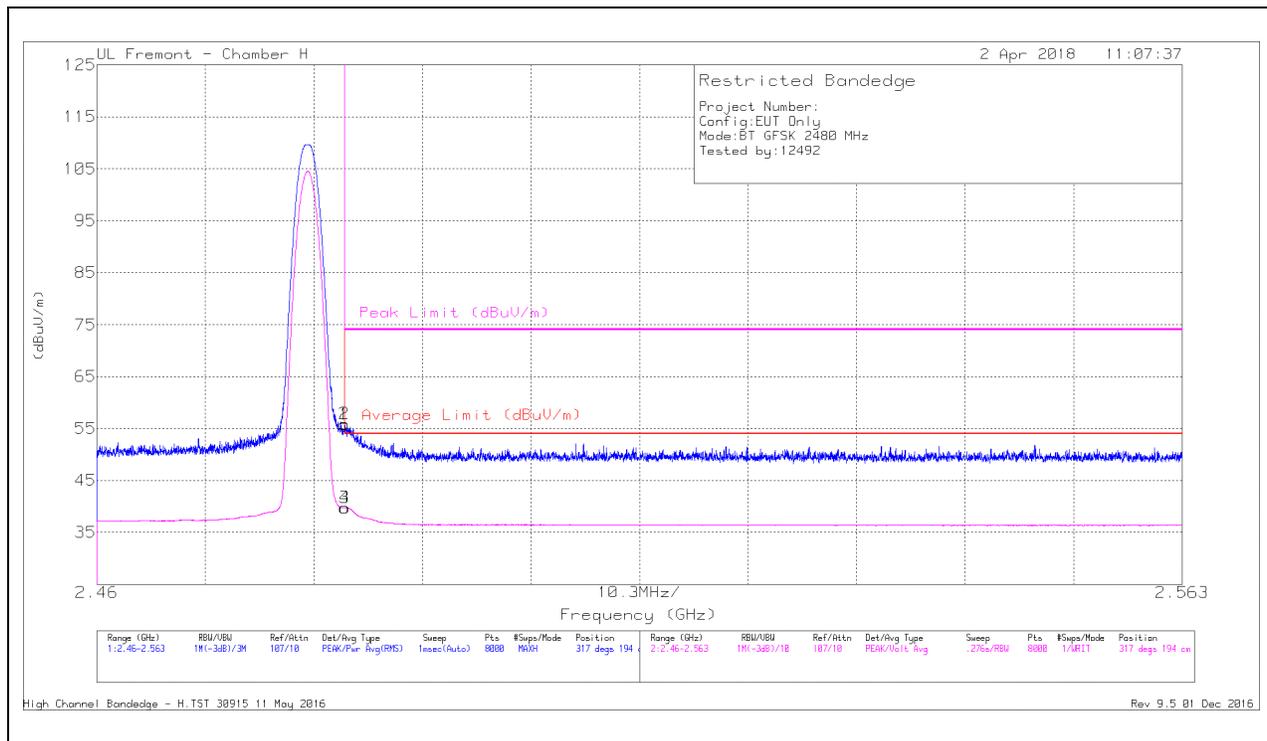
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

Low Channel Bandedge - V.TST 30915 11 May 2016

Rev 9.5 01 Dec 2016

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (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	51.59	Pk	32.4	-28.2	55.79	-	-	74	-18.21	317	194	H
2	* 2.484	51.63	Pk	32.4	-28.2	55.83	-	-	74	-18.17	317	194	H
3	* 2.484	35.55	VA1T	32.4	-28.2	39.75	54	-14.25	-	-	317	194	H
4	* 2.484	35.59	VA1T	32.4	-28.2	39.79	54	-14.21	-	-	317	194	H

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

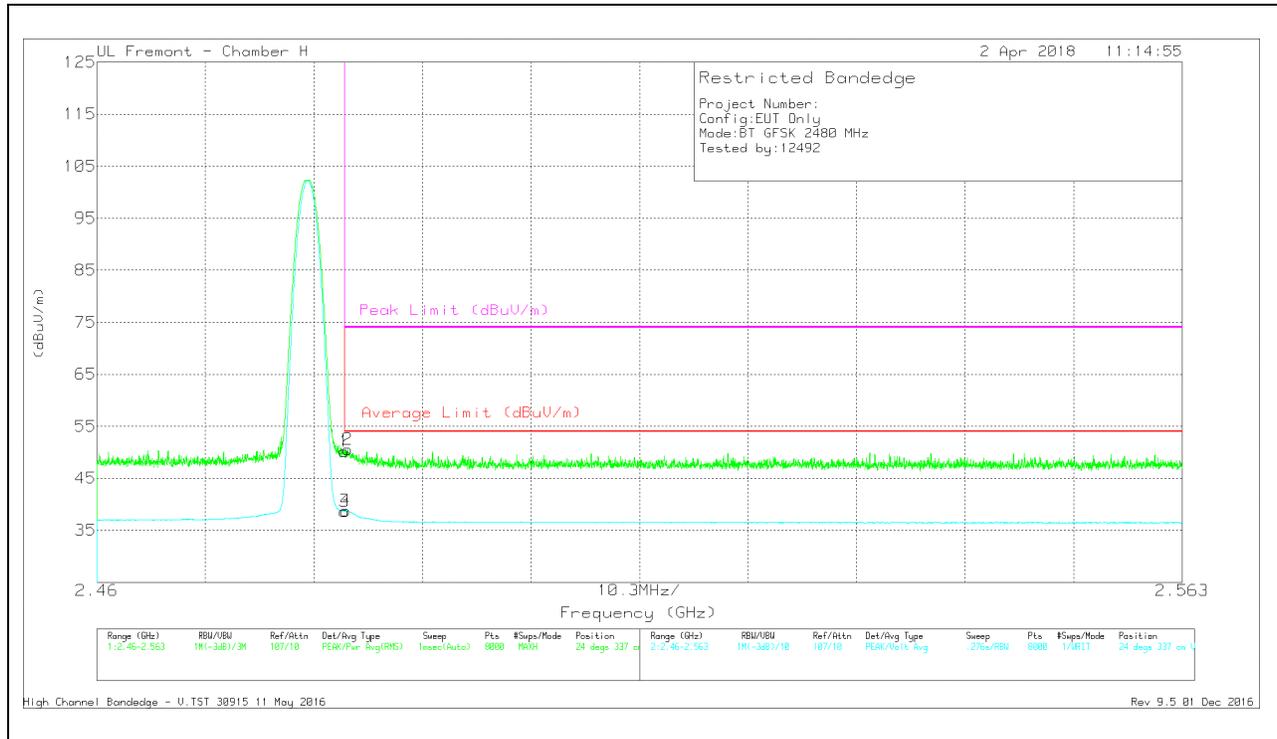
Pk - Peak detector

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

High Channel Bandedge - H.TST 30915 11 May 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.94	Pk	32.4	-28.2	50.14	-	-	74	-23.86	24	337	V
2	* 2.484	46.36	Pk	32.4	-28.2	50.56	-	-	74	-23.44	24	337	V
3	* 2.484	34.48	VA1T	32.4	-28.2	38.68	54	-15.32	-	-	24	337	V
4	* 2.484	34.51	VA1T	32.4	-28.2	38.71	54	-15.29	-	-	24	337	V

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

Pk - Peak detector

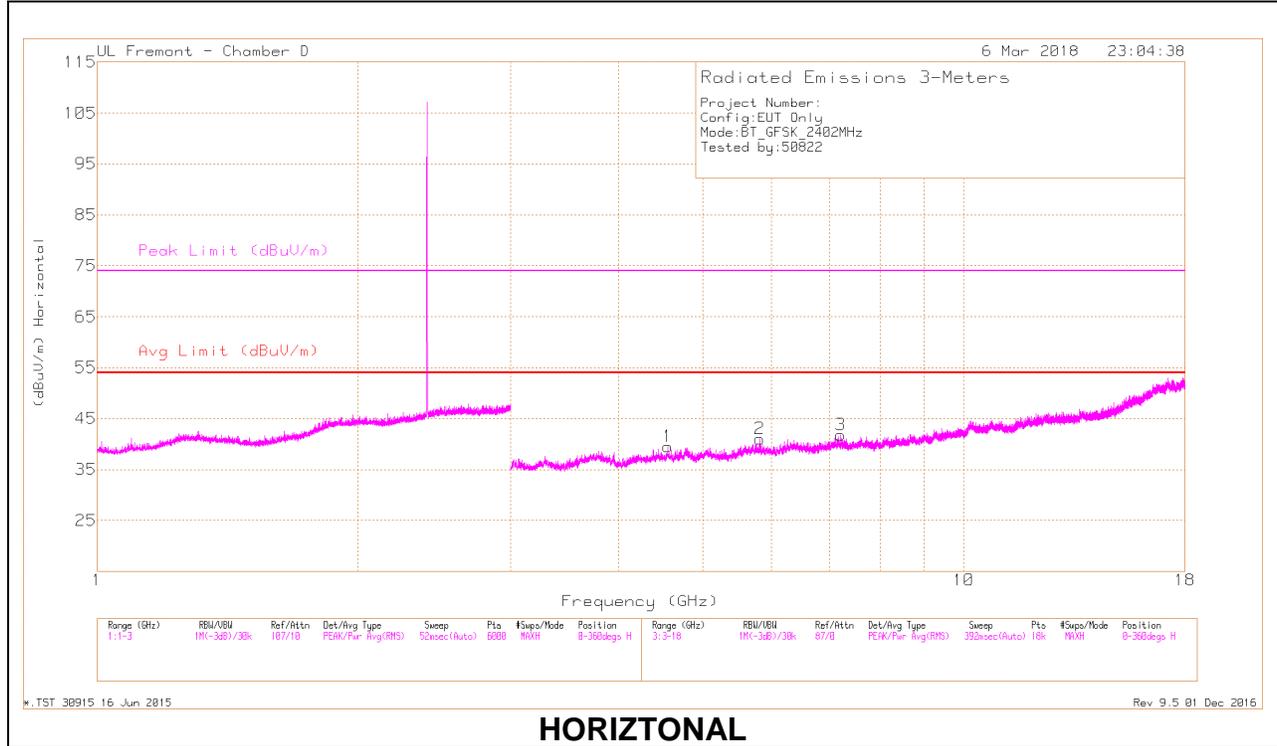
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

High Channel Bandedge - V.TST 30915 11 May 2016

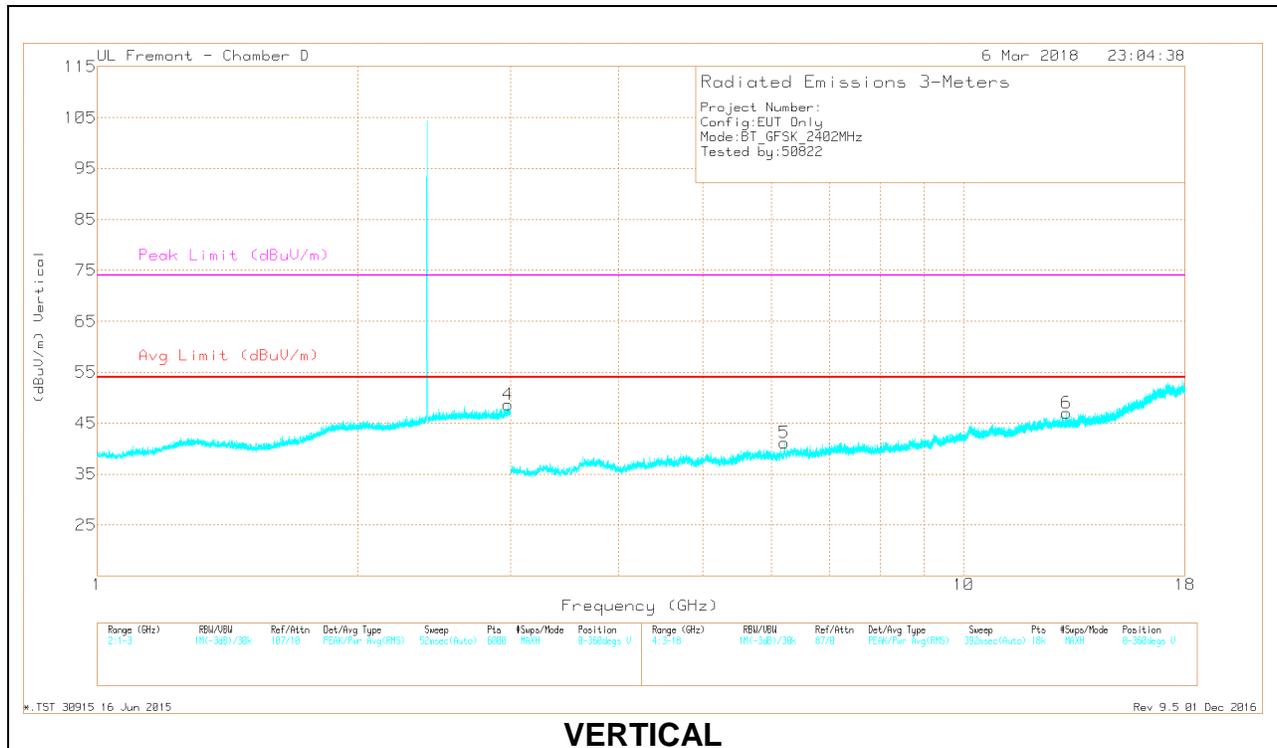
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HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

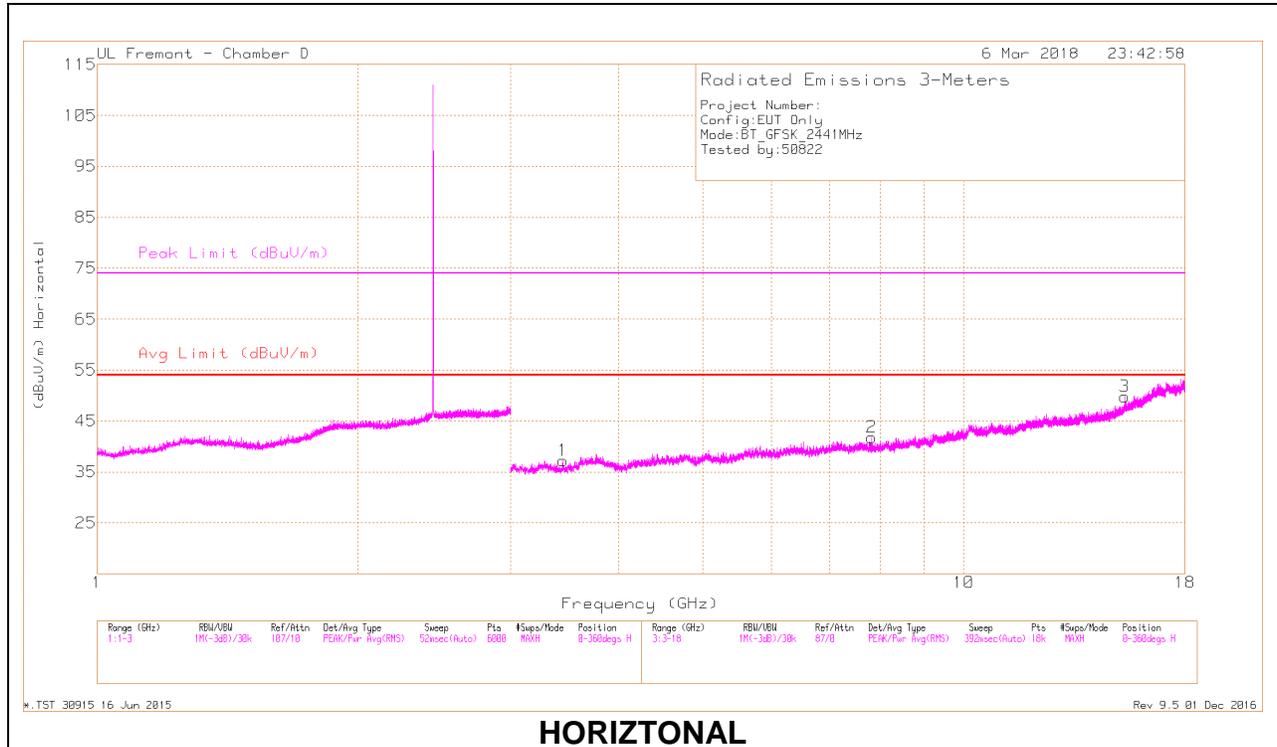
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.553	37.29	PKFH	34.6	-27.4	44.49	-	-	74	-29.51	122	292	H
	* 4.555	25.11	VA1T	34.6	-27.5	32.21	54	-21.79	-	-	122	292	H
2	5.818	36.02	PKFH	35.8	-26.5	45.32	-	-	-	-	145	323	H
3	7.207	36.78	PKFH	36.3	-24.6	48.48	-	-	-	-	346	398	H
4	2.979	40.52	PKFH	32.7	-19.8	53.42	-	-	-	-	70	115	V
5	6.212	36.4	PKFH	35.8	-26.1	46.1	-	-	-	-	359	109	V
6	13.148	33.18	PKFH	39.1	-20.9	51.38	-	-	-	-	166	103	V

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

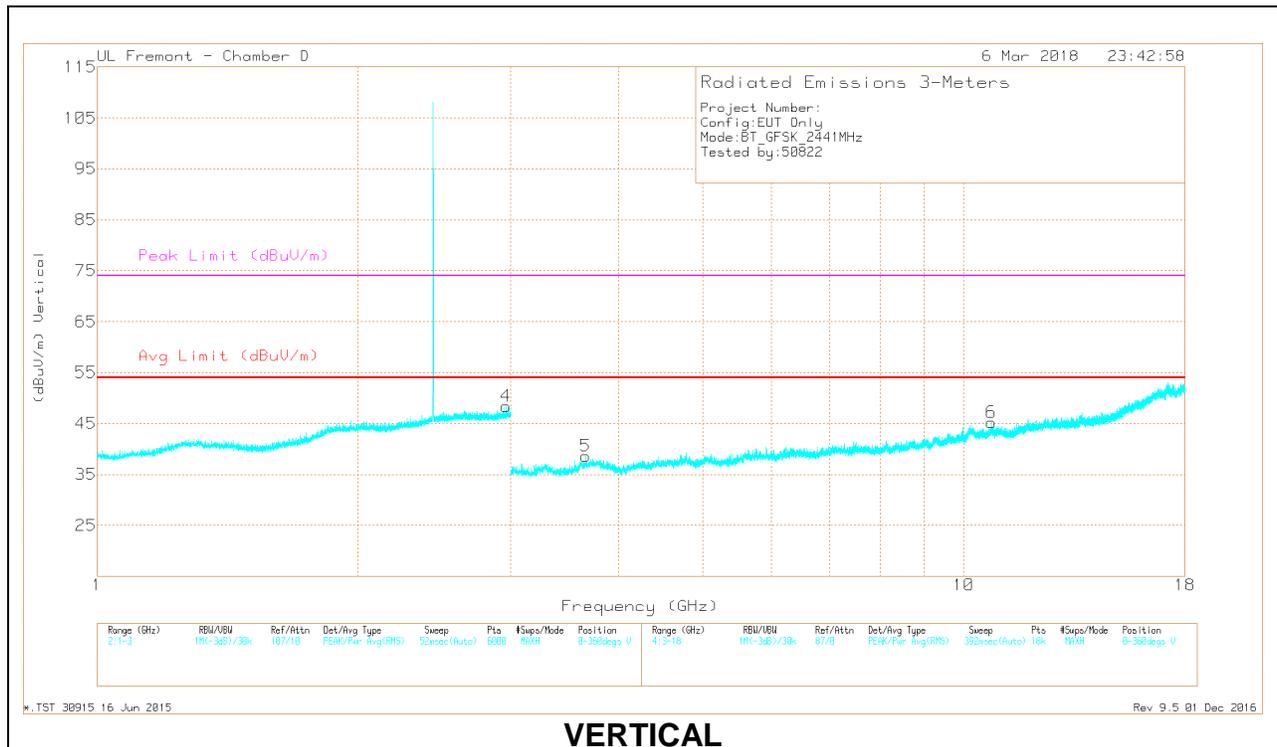
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

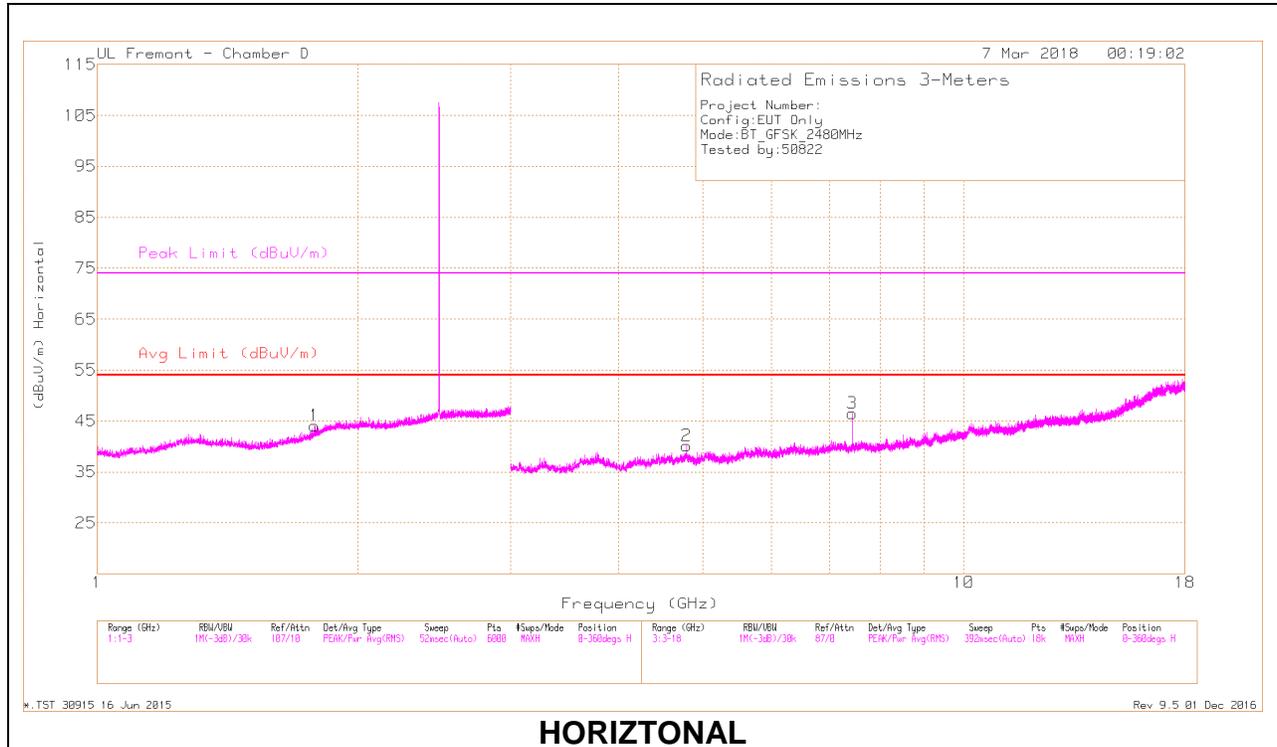
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.446	38.65	PKFH	33.1	-28.5	43.25	-	-	-	-	40	296	H
2	7.831	34.64	PKFH	35.8	-23.7	46.74	-	-	-	-	131	390	H
3	15.342	33.99	PKFH	40.6	-20.1	54.49	-	-	-	-	127	391	H
4	2.965	40.41	PKFH	32.7	-19.8	53.31	-	-	-	-	318	154	V
5	* 3.664	37.4	PKFH	33.6	-28.7	42.3	-	-	74	-31.7	181	140	V
	* 3.66	25.6	VA1T	33.7	-28.7	30.6	54	-23.4	-	-	181	140	V
6	* 10.761	32.39	PKFH	37.7	-19.5	50.59	-	-	74	-23.41	336	380	V
	* 10.76	20.27	VA1T	37.7	-19.5	38.47	54	-15.53	-	-	336	380	V

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

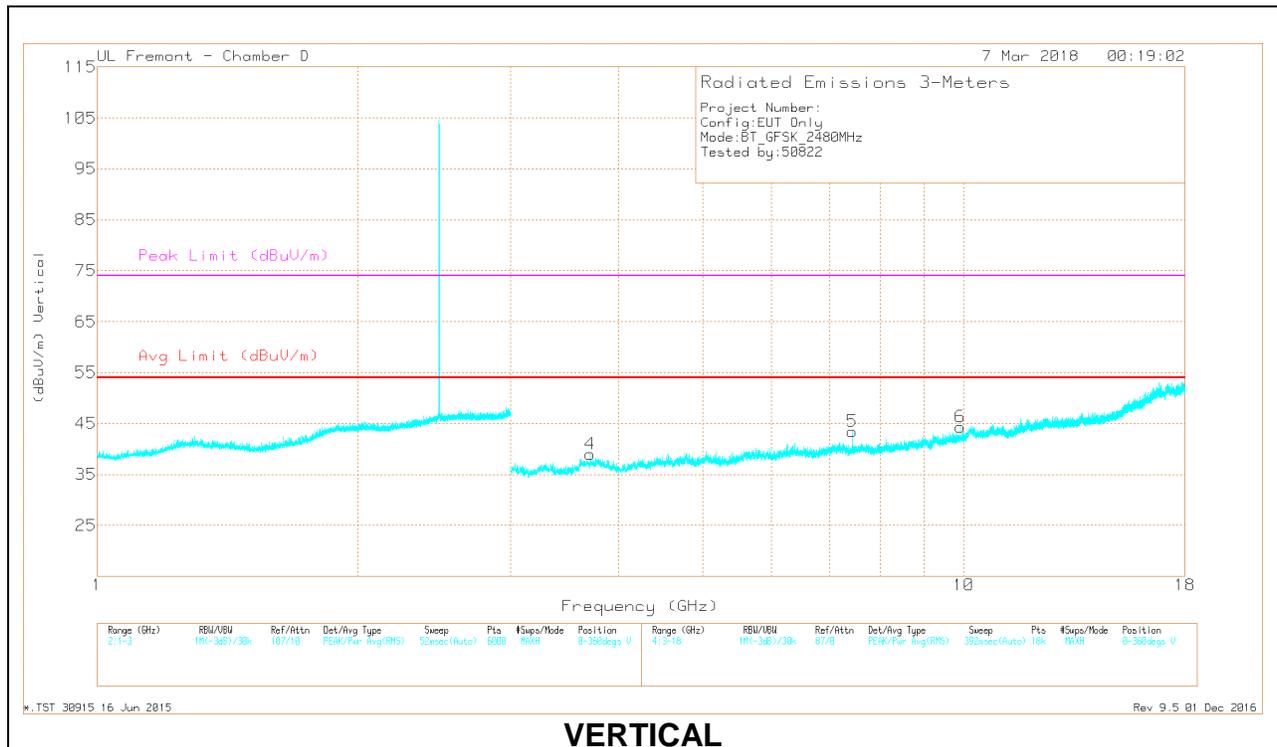
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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 T136 (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	1.783	40.33	PKFH	30.1	-21.3	49.13	-	-	-	-	141	109	H
2	* 4.789	36.54	PKFH	34.5	-26.2	44.84	-	-	74	-29.16	354	112	H
	* 4.79	24.36	VA1T	34.5	-26.3	32.56	54	-21.44	-	-	354	112	H
3	* 7.438	34.15	PKFH	36.2	-24	46.35	-	-	74	-27.65	351	144	H
	* 7.438	22.34	VA1T	36.2	-24	34.54	54	-19.46	-	-	351	144	H
4	* 3.704	37.53	PKFH	33.4	-28.5	42.43	-	-	74	-31.57	263	112	V
	* 3.704	25.61	VA1T	33.4	-28.5	30.51	54	-23.49	-	-	263	112	V
5	* 7.442	34.31	PKFH	36.2	-23.9	46.61	-	-	74	-27.39	4	148	V
	* 7.442	22.27	VA1T	36.2	-23.9	34.57	54	-19.43	-	-	4	148	V
6	9.909	31.79	PKFH	37.1	-20	48.89	-	-	-	-	323	105	V

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

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

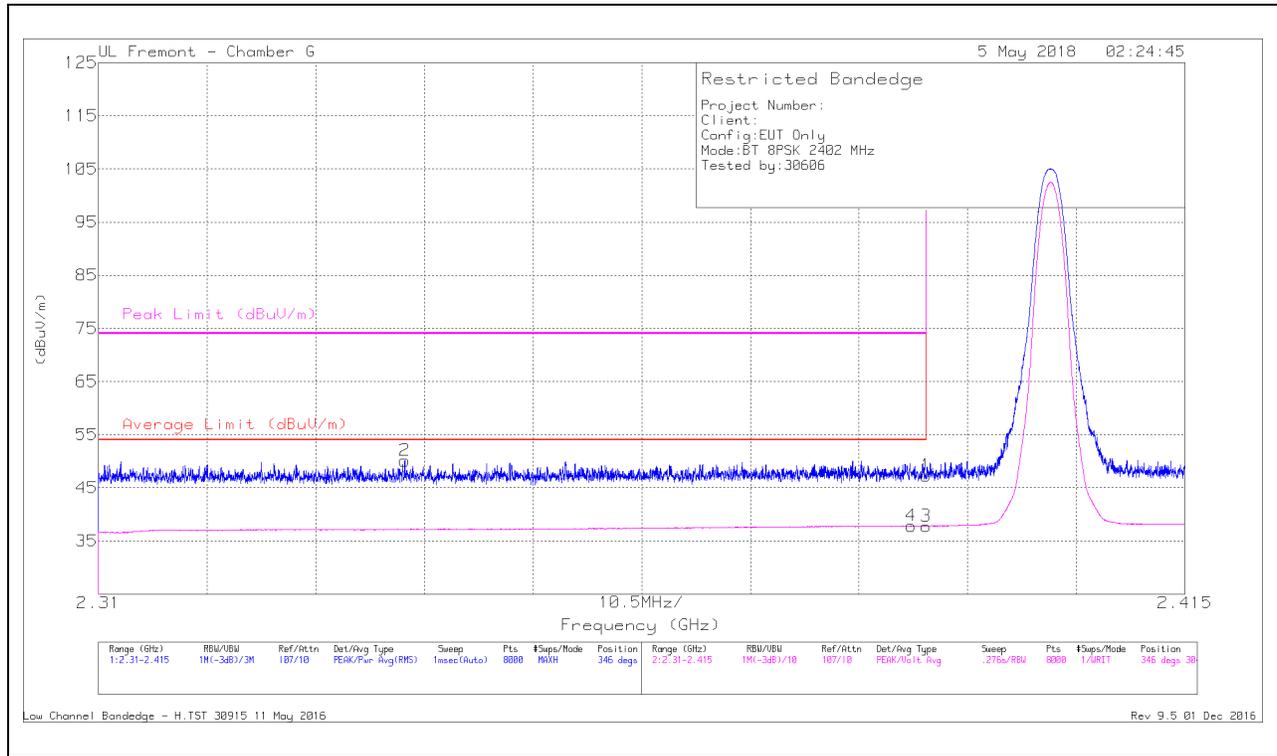
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.1.2. HIGH POWER ENCHANCED DATA RATE 8PSK MODULATION

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (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	* 2.34	42.62	Pk	31.8	-24.3	50.12	-	-	74	-23.88	346	304	H
4	* 2.389	30.03	VA1T	32.1	-24.3	37.83	54	-16.17	-	-	346	304	H
1	* 2.39	39.51	Pk	32.1	-24.3	47.31	-	-	74	-26.69	346	304	H
3	* 2.39	29.96	VA1T	32.1	-24.3	37.76	54	-16.24	-	-	346	304	H

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

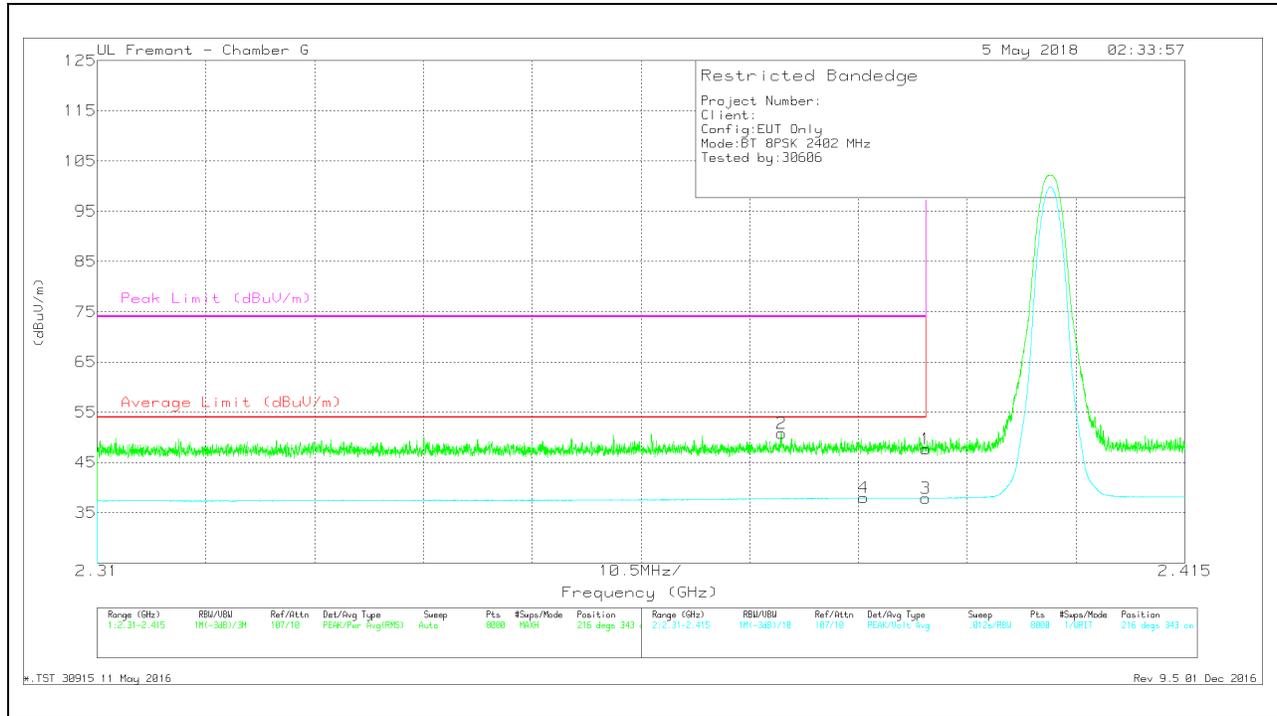
Pk - Peak detector

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

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (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)	Polarity
1	* 2.39	39.93	Pk	32.1	-24.3	47.73	-	-	74	-26.27	216	343	V
2	* 2.376	43.03	Pk	32.1	-24.3	50.83	-	-	74	-23.17	216	343	V
3	* 2.39	30.07	VA1T	32.1	-24.3	37.87	54	-16.13	-	-	216	343	V
4	* 2.384	30.07	VA1T	32.2	-24.3	37.97	54	-16.03	-	-	216	343	V

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

Pk - Peak detector

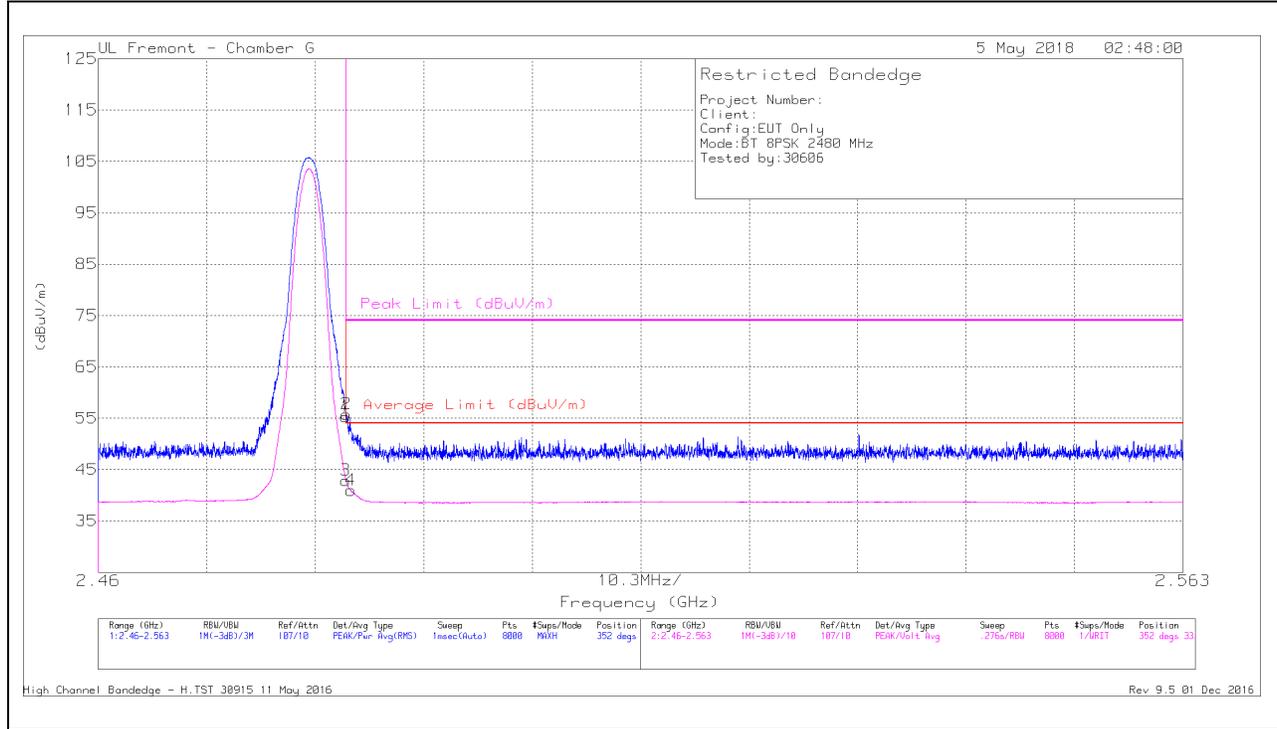
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (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	47.08	Pk	32.5	-24.3	55.28	-	-	74	-18.72	352	333	H
2	* 2.484	47.61	Pk	32.5	-24.3	55.81	-	-	74	-18.19	352	333	H
3	* 2.484	34.71	VA1T	32.5	-24.3	42.91	54	-11.09	-	-	352	333	H
4	* 2.484	32.78	VA1T	32.5	-24.3	40.98	54	-13.02	-	-	352	333	H

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

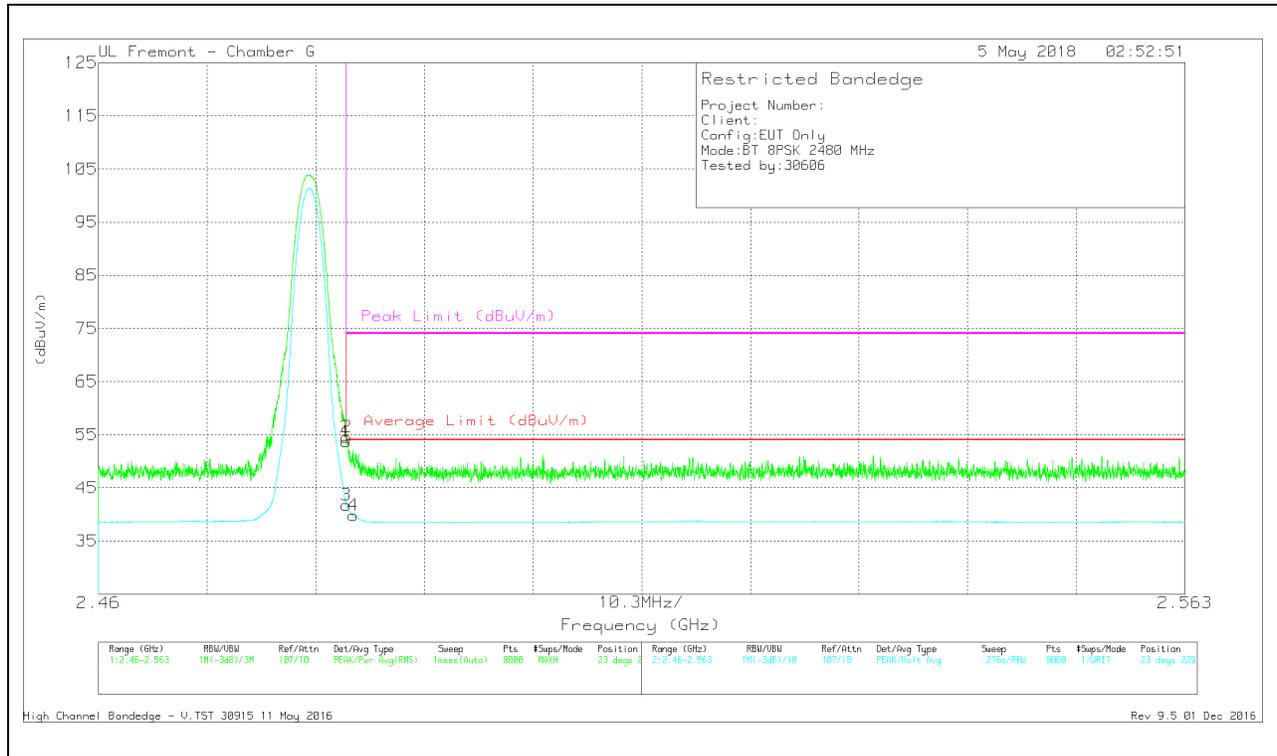
Pk - Peak detector

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

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.48	Pk	32.5	-24.3	53.68	-	-	74	-20.32	23	229	V
2	* 2.484	46.31	Pk	32.5	-24.3	54.51	-	-	74	-19.49	23	229	V
3	* 2.484	33.53	VA1T	32.5	-24.3	41.73	54	-12.27	-	-	23	229	V
4	* 2.484	31.6	VA1T	32.5	-24.3	39.8	54	-14.2	-	-	23	229	V

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

Pk - Peak detector

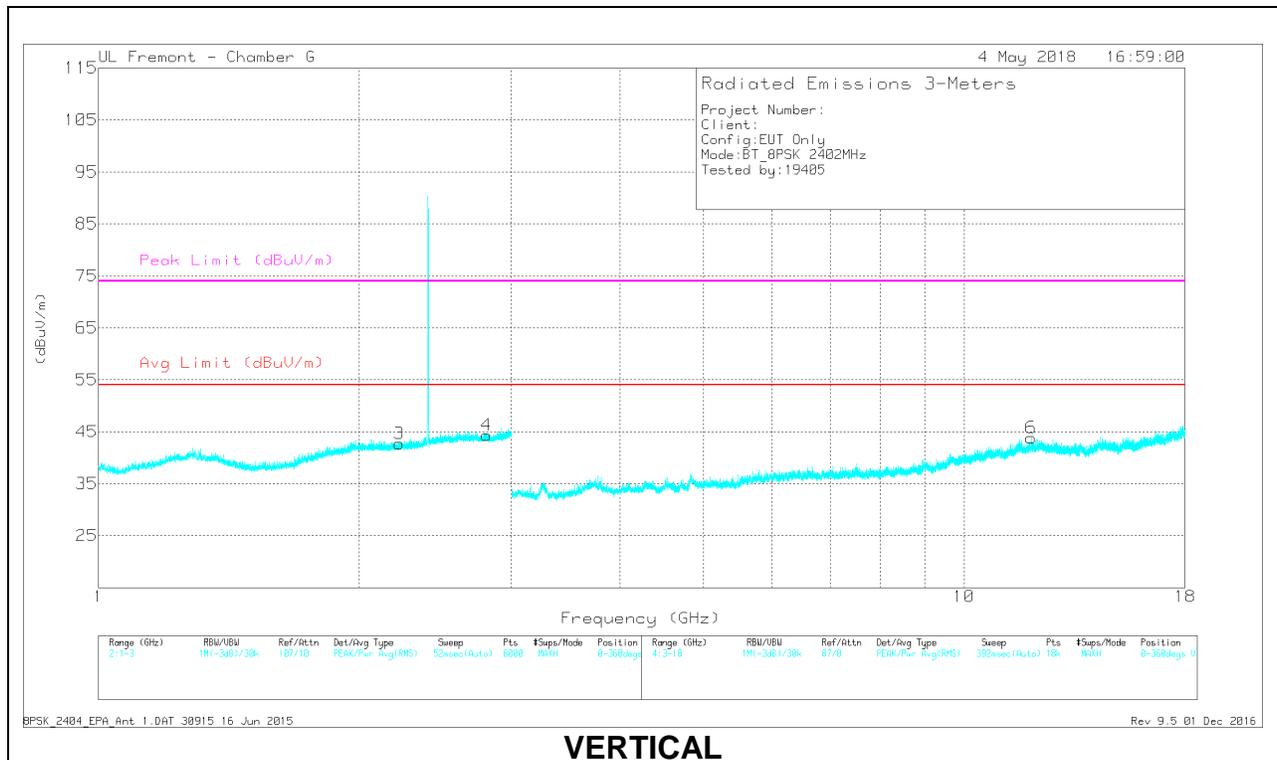
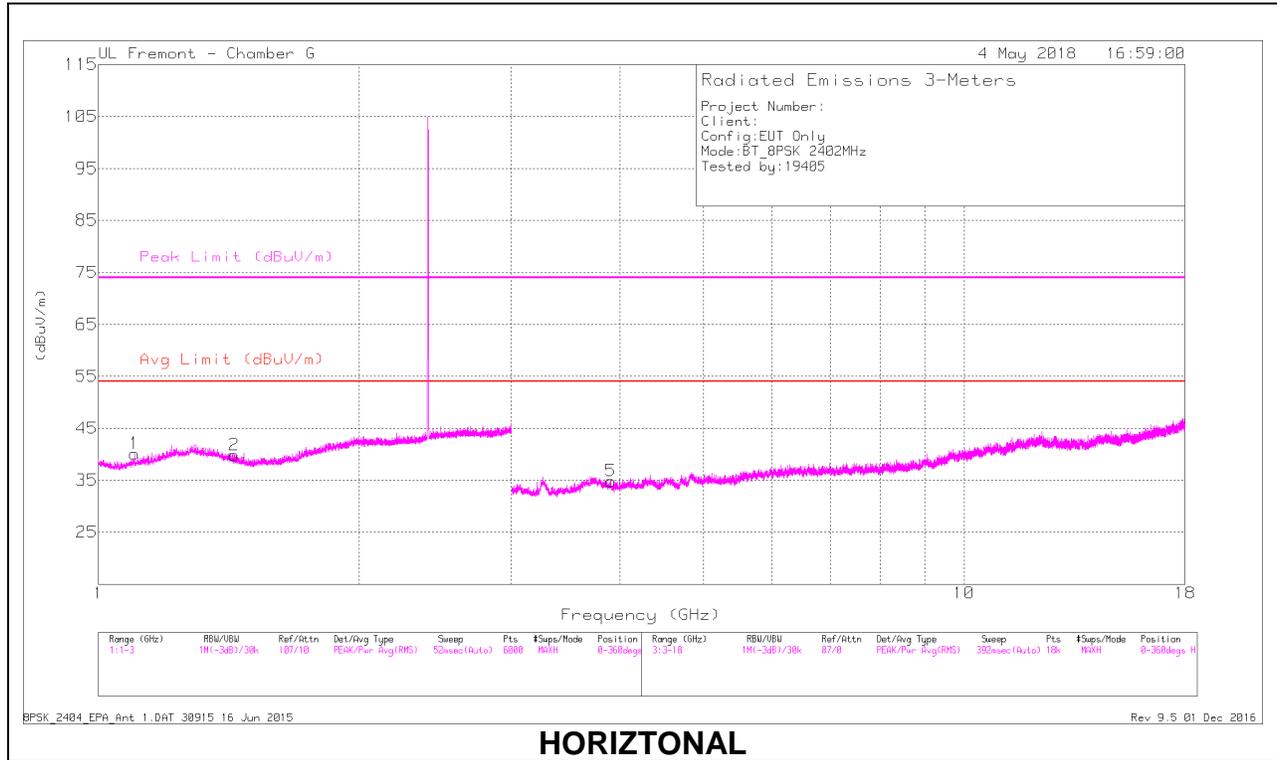
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (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)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.099	44.32	PKFH	27.7	-25.6	46.42	-	-	74	-27.58	204	151	H
	* 1.1	32.02	VA1T	27.7	-25.6	34.12	54	-19.88	-	-	204	151	H
2	* 1.386	44.03	PKFH	29.3	-25.3	48.03	-	-	74	-25.97	19	308	H
	* 1.296	31.79	VA1T	30	-25.5	36.29	54	-17.71	-	-	19	308	H
3	* 2.228	42.71	PKFH	31.8	-24.5	50.01	-	-	74	-23.99	301	144	V
	* 2.224	30.83	VA1T	31.8	-24.5	38.13	54	-15.87	-	-	301	144	V
4	* 2.807	44.37	PKFH	32.8	-24.1	53.07	-	-	74	-20.93	45	302	V
	* 2.808	31.55	VA1T	32.8	-24.1	40.25	54	-13.75	-	-	45	302	V
5	* 3.905	41.23	PKFH 2	33.8	-32.9	42.13	-	-	74	-31.87	213	185	H
	* 3.908	29.86	VA1T	33.8	-32.8	30.86	54	-23.14	-	-	213	185	H
6	* 11.958	36.41	PKFH	39	-24.7	50.71	-	-	74	-23.29	279	202	V
	* 11.96	24.96	VA1T	39	-24.7	39.26	54	-14.74	-	-	279	202	V

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

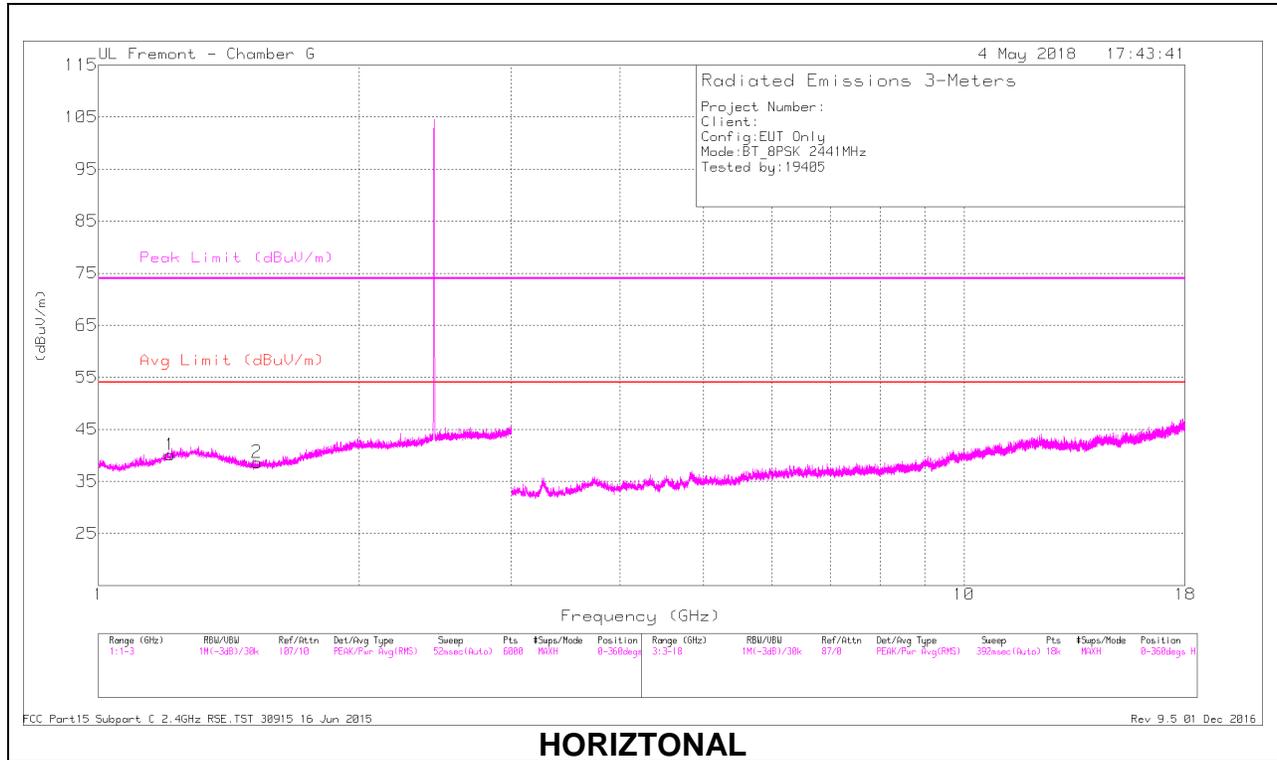
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

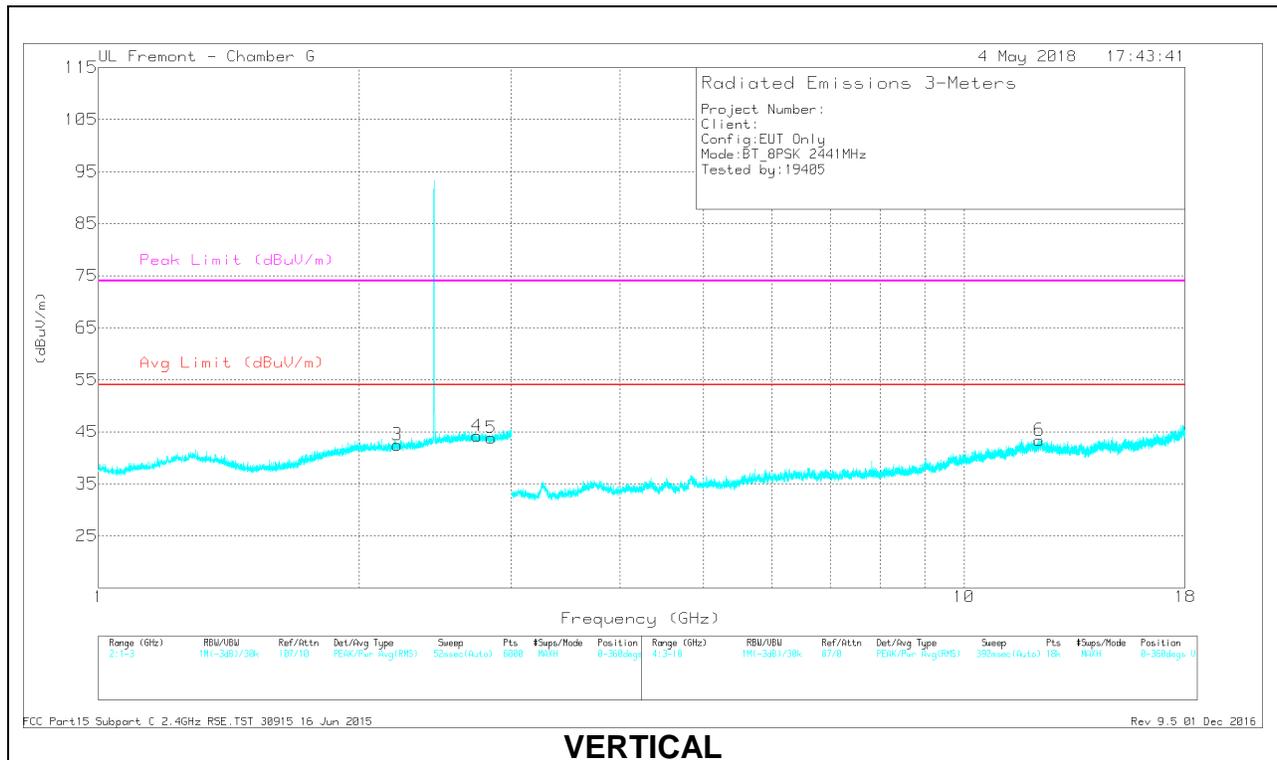
8PSK_2402_ePA.dat 30915 16 Jun 2015

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MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

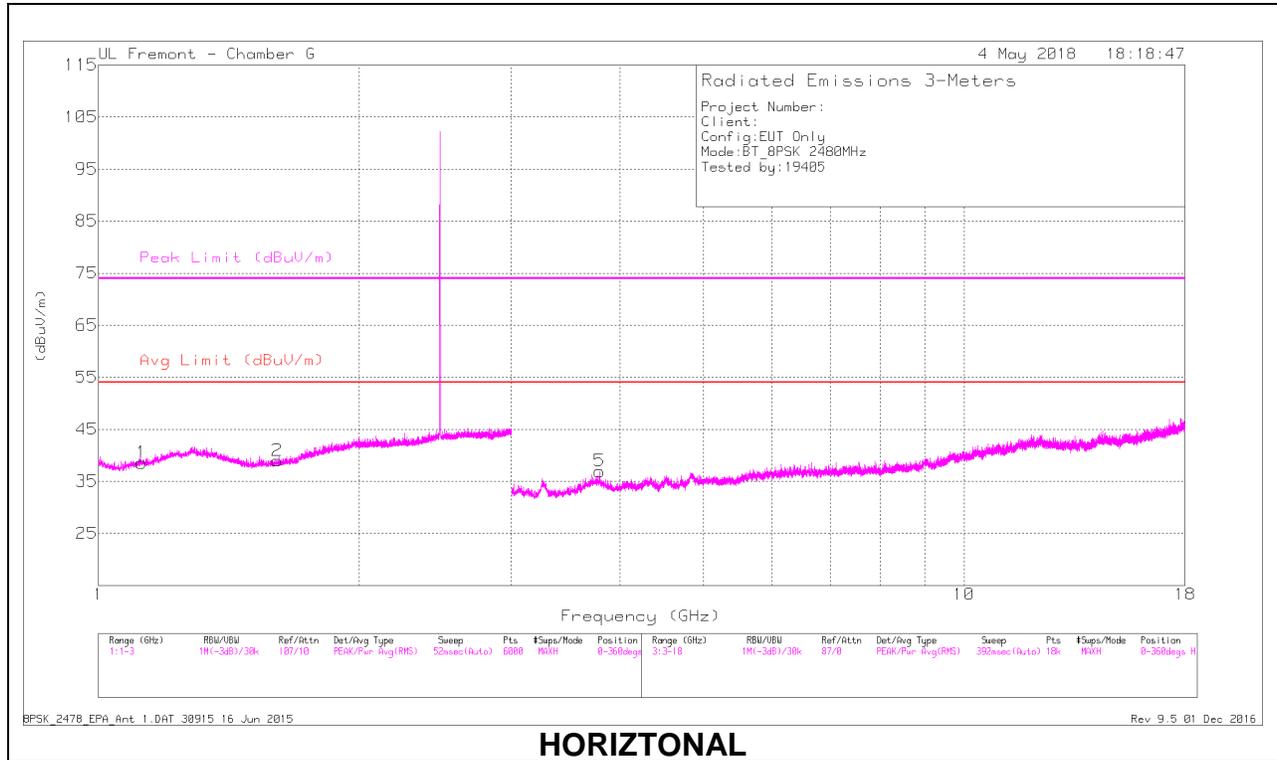
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.21	43.44	PKFH	29.4	-25.6	47.24	-	-	74	-26.76	177	144	H
	* 1.211	31.78	VA1T	29.5	-25.6	35.68	54	-18.32	-	-	177	144	H
2	* 1.525	43.39	PKFH	27.8	-25.1	46.09	-	-	74	-27.91	290	306	H
	* 1.526	31.39	VA1T	27.8	-25.1	34.09	54	-19.91	-	-	290	306	H
3	* 2.215	43	PKFH	31.8	-24.5	50.3	-	-	74	-23.7	169	161	V
	* 2.212	31.2	VA1T	31.8	-24.5	38.5	54	-15.5	-	-	169	161	V
4	* 2.739	43.59	PKFH	32.7	-24.2	52.09	-	-	74	-21.91	279	224	V
	* 2.739	31.65	VA1T	32.7	-24.2	40.15	54	-13.85	-	-	279	224	V
5	* 2.844	42.48	PKFH	32.7	-24.2	50.98	-	-	74	-23.02	309	159	V
	* 2.842	31.58	VA1T	32.7	-24.2	40.08	54	-13.92	-	-	309	159	V
6	* 12.22	37.07	PKFH	39	-24.9	51.17	-	-	74	-22.83	220	240	V
	* 12.216	25.22	VA1T	39	-24.9	39.32	54	-14.68	-	-	220	240	V

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

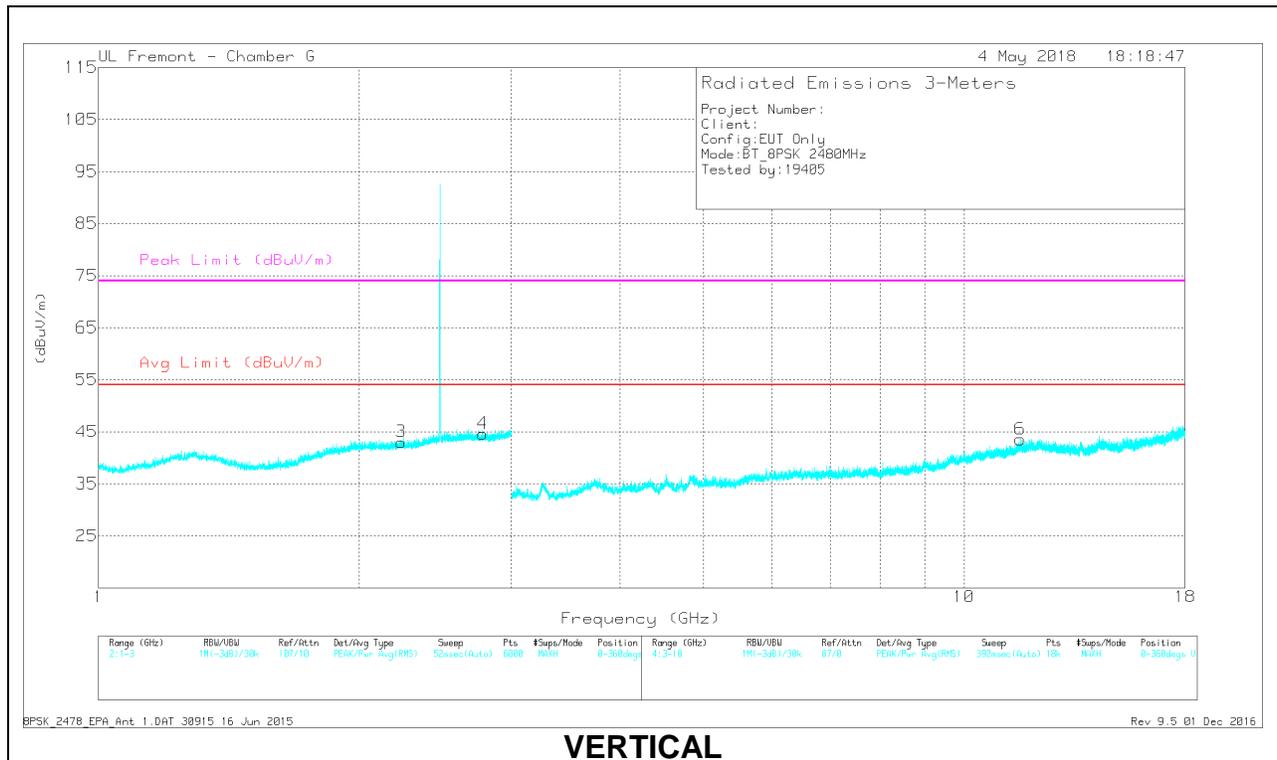
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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 T119 (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	* 1.121	43.98	PKFH	28	-25.6	46.38	-	-	74	-27.62	201	174	H
	* 1.122	31.91	VA1T	28	-25.6	34.31	54	-19.69	-	-	201	174	H
2	* 1.61	43.7	PKFH	28.2	-25	46.9	-	-	74	-27.1	34	211	H
	* 1.609	31.56	VA1T	28.2	-25	34.76	54	-19.24	-	-	34	211	H
3	* 2.236	43.9	PKFH	31.8	-24.5	51.2	-	-	74	-22.8	167	280	V
	* 2.236	31.9	VA1T	31.8	-24.5	39.2	54	-14.8	-	-	167	280	V
4	* 2.78	43.4	PKFH	32.7	-24.2	51.9	-	-	74	-22.1	261	313	V
	* 2.777	31.2	VA1T	32.7	-24.2	39.7	54	-14.3	-	-	261	313	V
5	* 3.794	40.54	PKFH	34	-32.1	42.44	-	-	74	-31.56	314	275	H
	* 3.794	29.83	VA1T	34	-32.1	31.73	54	-22.27	-	-	314	275	H
6	* 11.612	36.48	PKFH	38.8	-25.6	49.68	-	-	74	-24.32	244	164	V
	* 11.61	25.28	VA1T	38.8	-25.6	38.48	54	-15.52	-	-	244	164	V

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

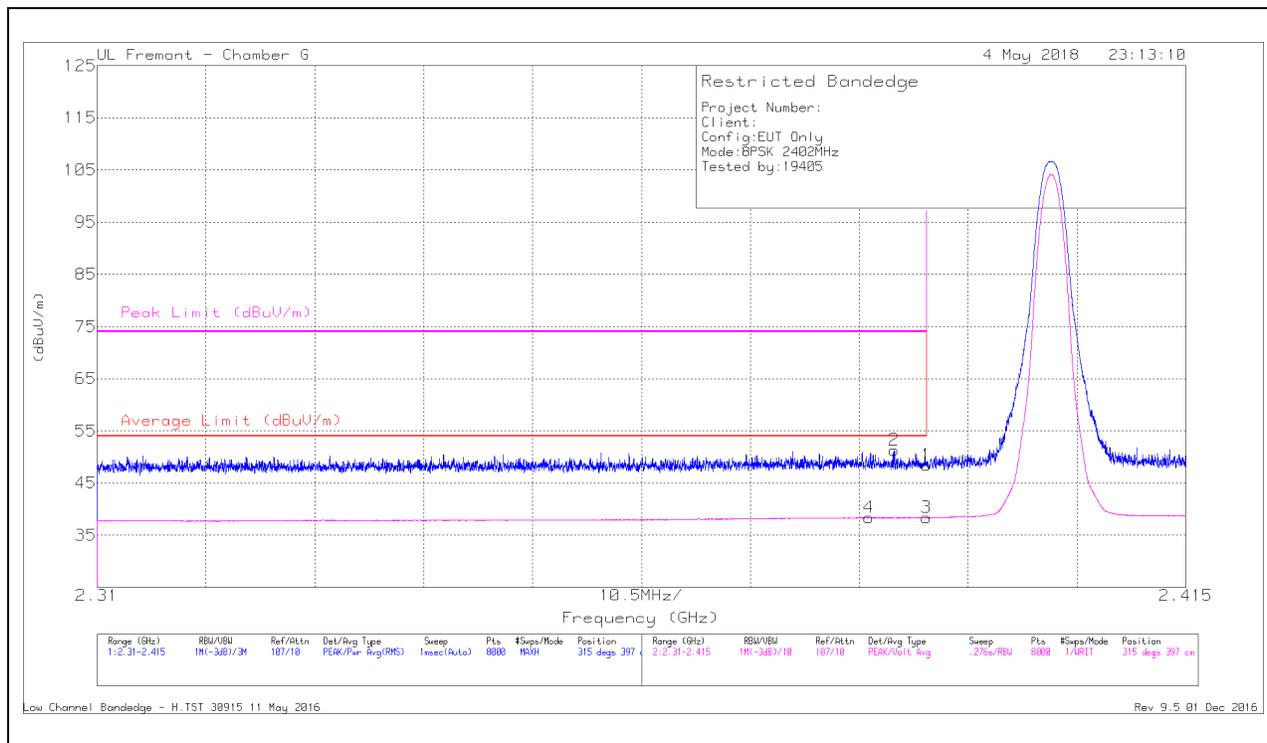
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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	AFT119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.384	30.48	VA1T	32.2	-24.3	38.38	54	-15.62	-	-	315	397	H
2	* 2.387	43.43	Pk	32.2	-24.3	51.33	-	-	74	-22.67	315	397	H
1	* 2.39	40.58	Pk	32.1	-24.3	48.38	-	-	74	-25.62	315	397	H
3	* 2.39	30.53	VA1T	32.1	-24.3	38.33	54	-15.67	-	-	315	397	H

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

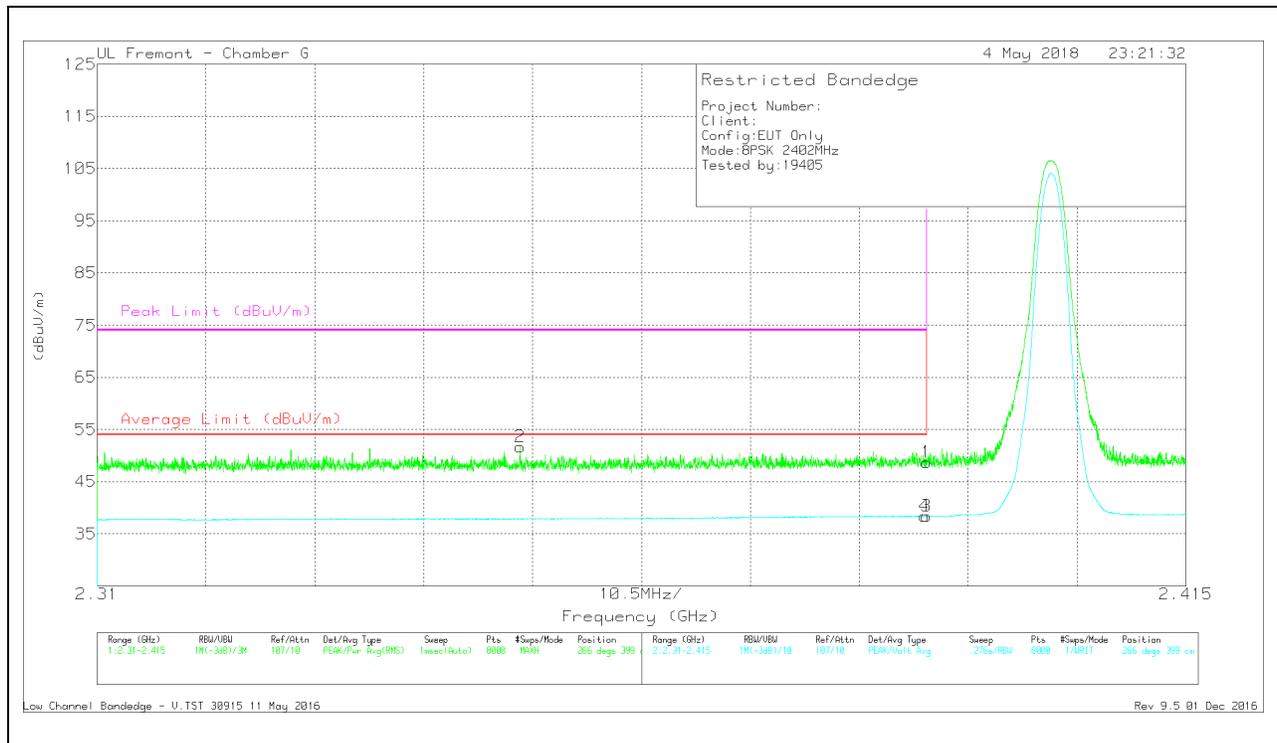
Pk - Peak detector

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

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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)	Polarity
2	* 2.351	44.16	Pk	31.8	-24.3	51.66	-	-	74	-22.34	266	399	V
1	* 2.39	40.86	Pk	32.1	-24.3	48.66	-	-	74	-25.34	266	399	V
3	* 2.39	30.53	VA1T	32.1	-24.3	38.33	54	-15.67	-	-	266	399	V
4	* 2.39	30.56	VA1T	32.1	-24.3	38.36	54	-15.64	-	-	266	399	V

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

Pk - Peak detector

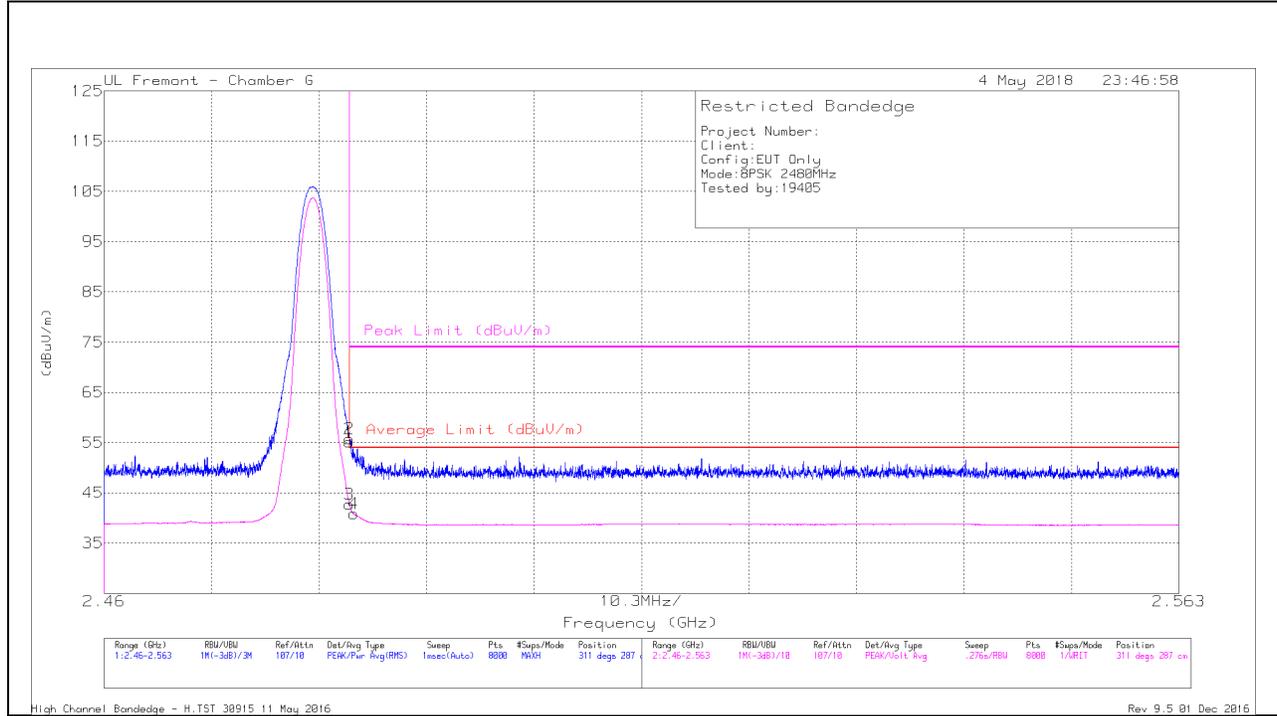
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.92	Pk	32.5	-24.3	55.12	-	-	74	-18.88	311	287	H
2	* 2.484	47.61	Pk	32.5	-24.3	55.81	-	-	74	-18.19	311	287	H
3	* 2.484	34.52	VA1T	32.5	-24.3	42.72	54	-11.28	-	-	311	287	H
4	* 2.484	32.64	VA1T	32.5	-24.3	40.84	54	-13.16	-	-	311	287	H

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

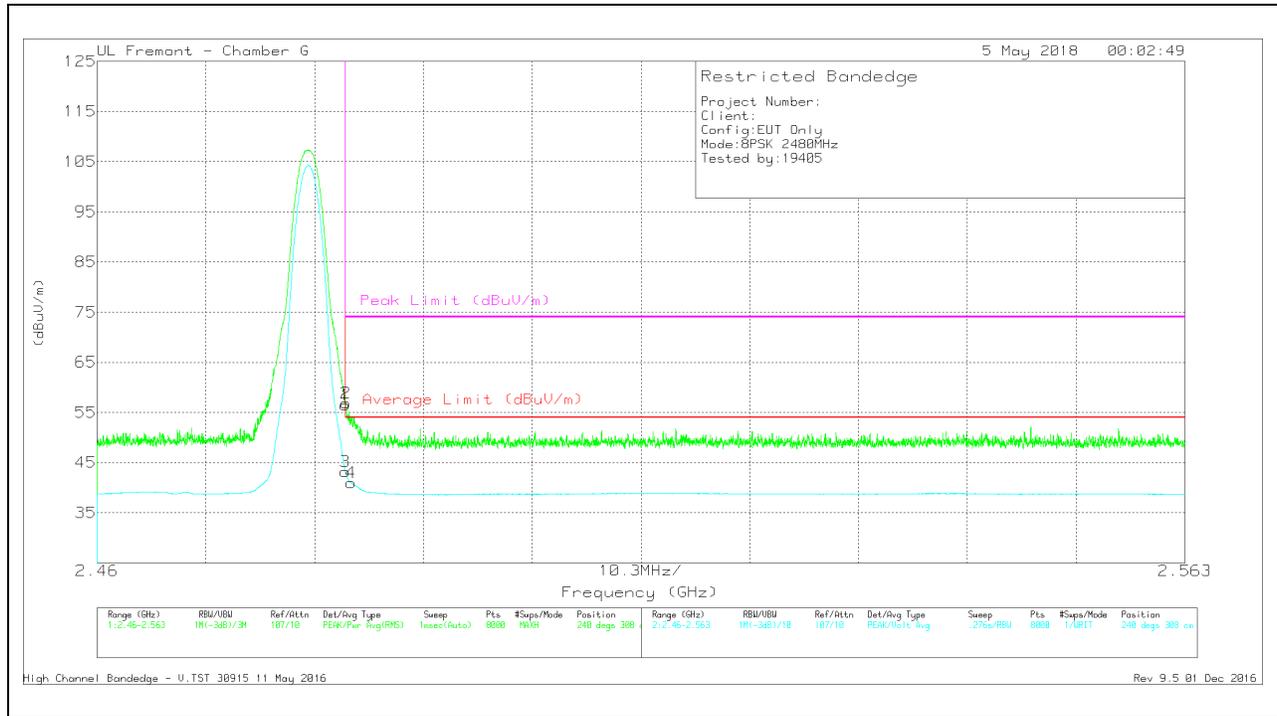
Pk - Peak detector

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

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	48.34	Pk	32.5	-24.3	56.54	-	-	74	-17.46	240	308	V
2	* 2.484	48.67	Pk	32.5	-24.3	56.87	-	-	74	-17.13	240	308	V
3	* 2.484	35.04	VA1T	32.5	-24.3	43.24	54	-10.76	-	-	240	308	V
4	* 2.484	32.75	VA1T	32.5	-24.3	40.95	54	-13.05	-	-	240	308	V

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

Pk - Peak detector

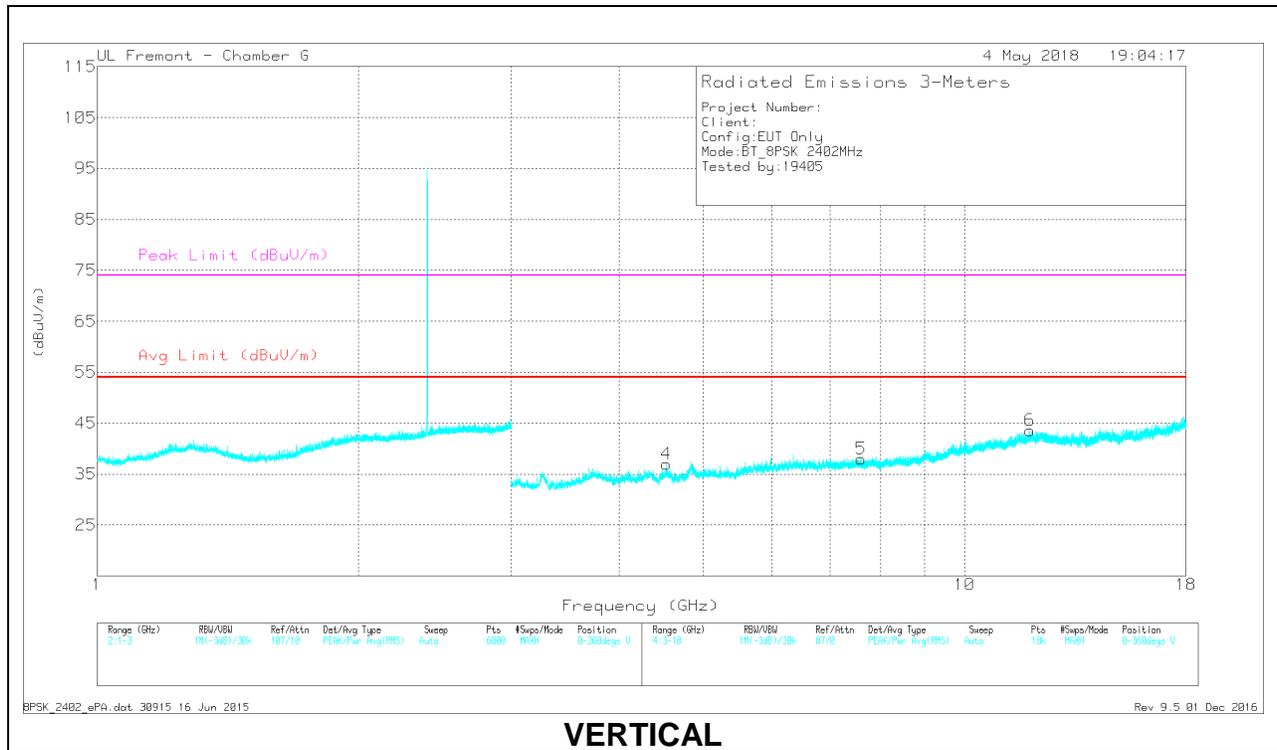
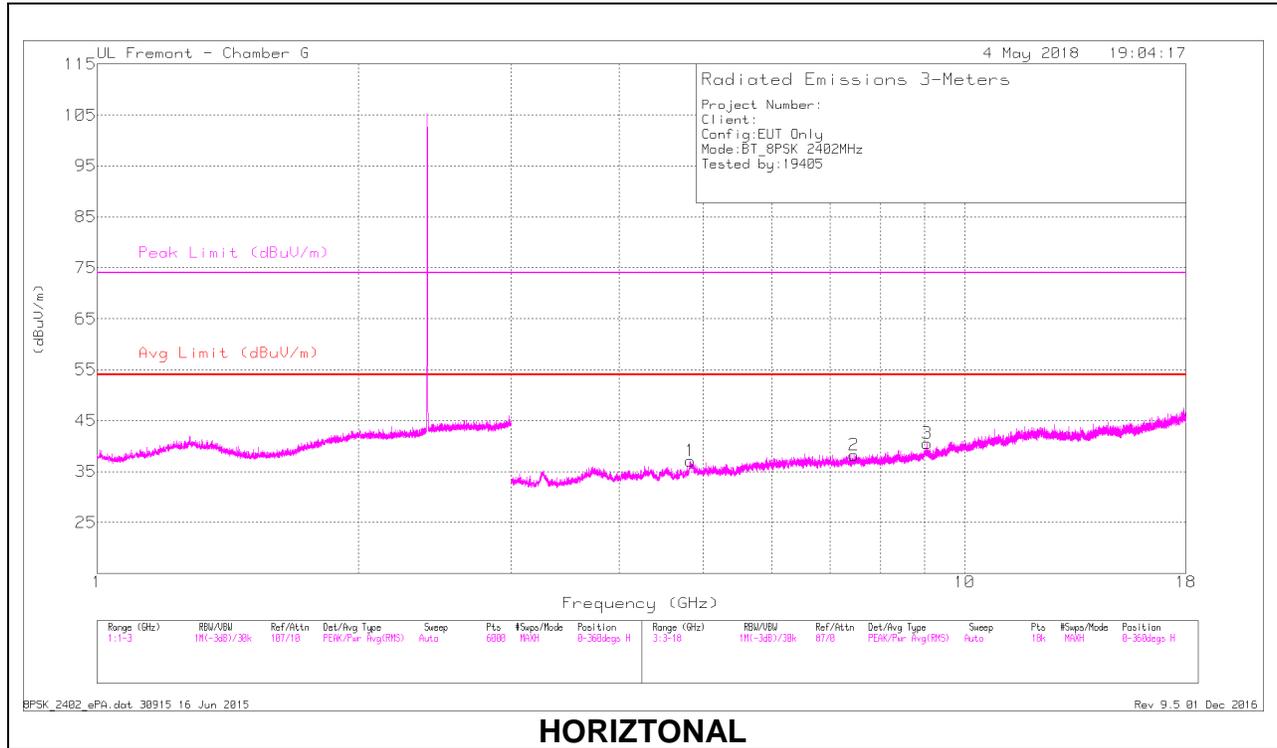
VA1T - FHSS: Linear Voltage Average $V_B=1/T_{on}$ where: T_{on} is transmit duration

High Channel Bandedge - V.TST 30915 11 May 2016

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

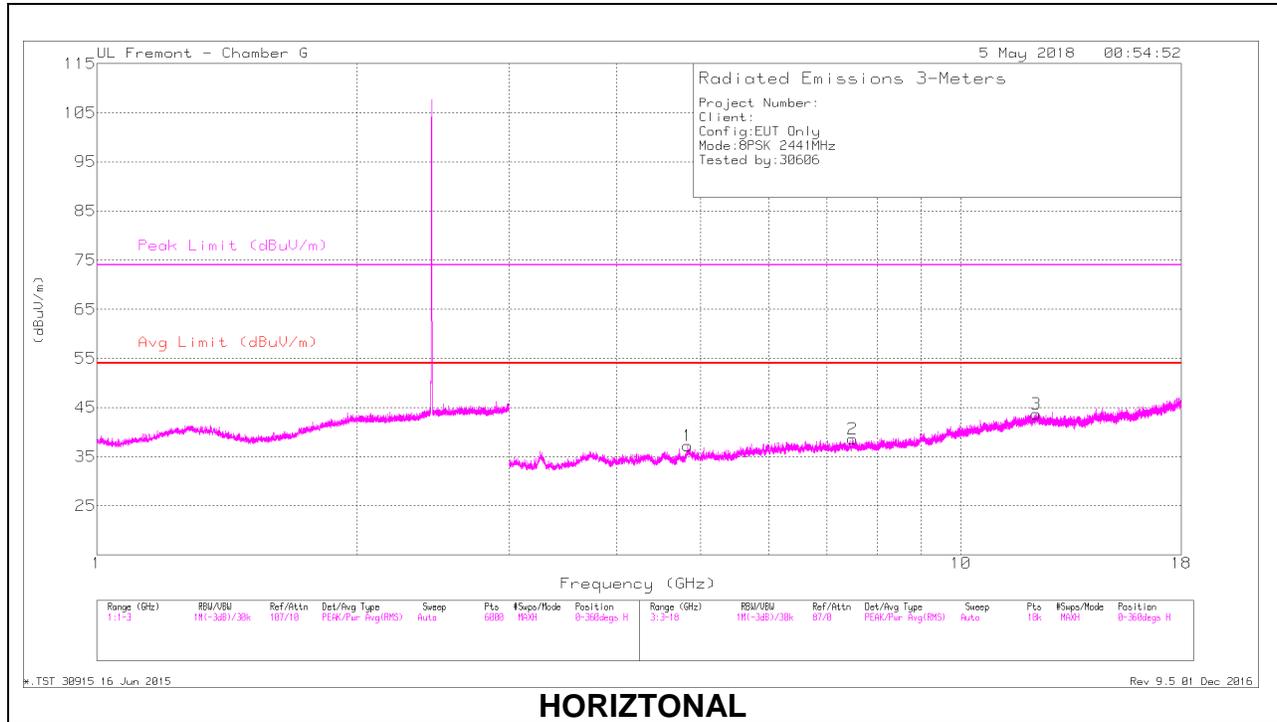
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.828	41.07	PKFH	34.3	-32.2	43.17	-	-	74	-30.83	50	152	H
	* 4.829	28.21	VA1T	34.3	-32.2	30.31	54	-23.69	-	-	50	152	H
2	* 7.457	37.87	PKFH	35.9	-30.4	43.37	-	-	74	-30.63	59	164	H
	* 7.456	26.38	VA1T	35.9	-30.4	31.88	54	-22.12	-	-	59	164	H
3	* 9.054	36.71	PKFH	36.1	-27.7	45.11	-	-	74	-28.89	71	100	H
	* 9.053	25.07	VA1T	36.2	-27.7	33.57	54	-20.43	-	-	71	100	H
4	* 4.536	40.08	PKFH	34.4	-32.3	42.18	-	-	74	-31.82	92	132	V
	* 4.532	27.66	VA1T	34.4	-32.4	29.66	54	-24.34	-	-	92	132	V
5	* 7.599	38.11	PKFH	35.7	-29.9	43.91	-	-	74	-30.09	106	148	V
	* 7.598	26.08	VA1T	35.7	-29.9	31.88	54	-22.12	-	-	106	148	V
6	* 11.896	36.46	PKFH	39	-25.2	50.26	-	-	74	-23.74	85	165	V
	* 11.898	23.62	VA1T	38.9	-25.2	37.32	54	-16.68	-	-	85	165	V

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

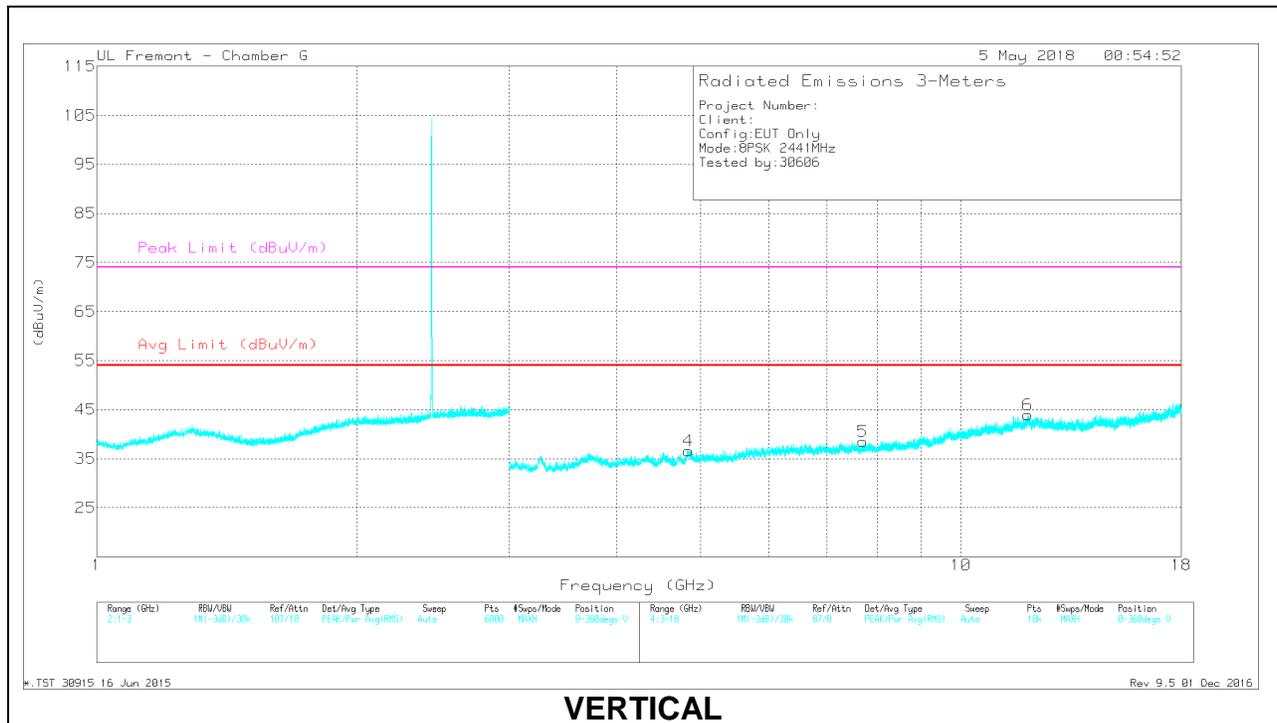
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

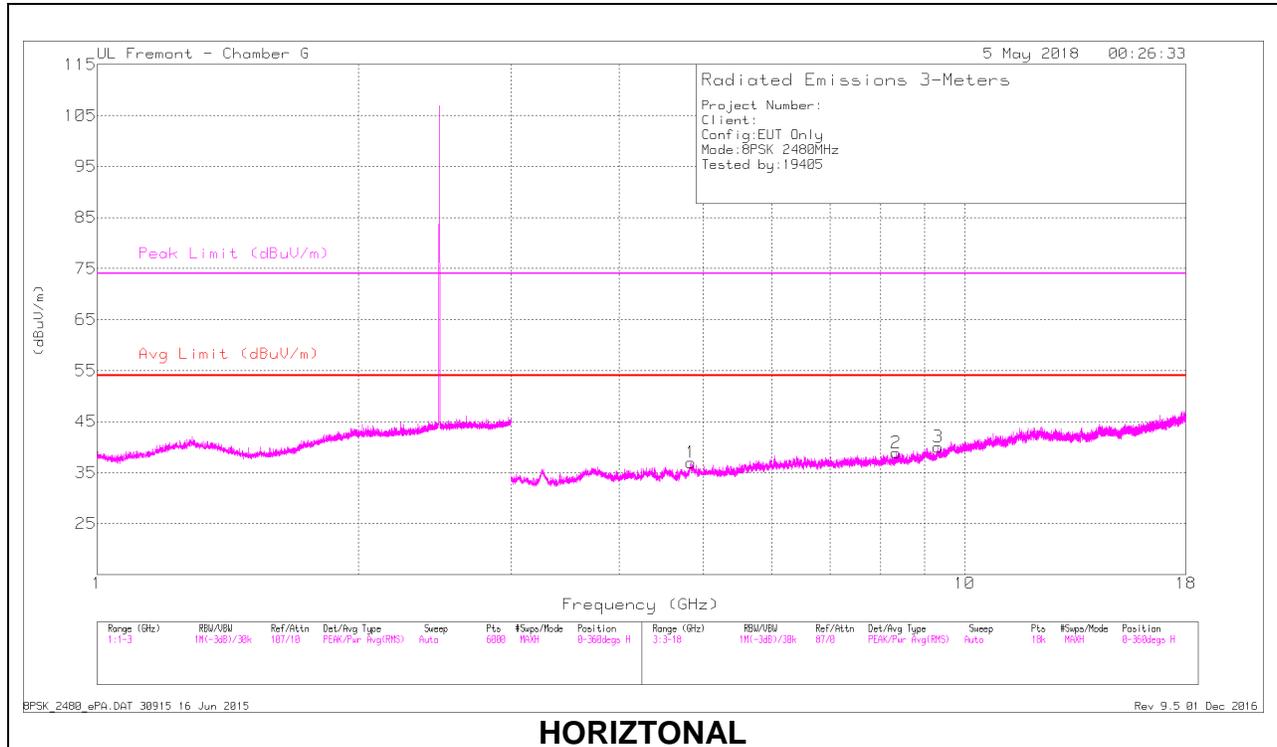
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.83	40.37	PKFH	34.3	-32.2	42.47	-	-	74	-31.53	11	309	H
	* 4.832	28.55	VA1T	34.3	-32.2	30.65	54	-23.35	-	-	11	309	H
2	* 7.495	37.91	PKFH	35.8	-30	43.71	-	-	74	-30.29	342	371	H
	* 7.495	26.19	VA1T	35.8	-30	31.99	54	-22.01	-	-	342	371	H
3	* 12.23	35.18	PKFH	39.1	-25	49.28	-	-	74	-24.72	243	135	H
	* 12.229	23.67	VA1T	39.1	-25	37.77	54	-16.23	-	-	243	135	H
4	* 4.84	40.13	PKFH	34.3	-32.2	42.23	-	-	74	-31.77	170	194	V
	* 4.842	28.44	VA1T	34.3	-32.2	30.54	54	-23.46	-	-	170	194	V
5	* 7.704	38.35	PKFH	35.8	-30.3	43.85	-	-	74	-30.15	320	264	V
	* 7.703	26.43	VA1T	35.8	-30.4	31.83	54	-22.17	-	-	320	264	V
6	* 11.96	35.72	PKFH	39.1	-24.7	50.12	-	-	74	-23.88	139	213	V
	* 11.957	23.19	VA1T	39	-24.7	37.49	54	-16.51	-	-	139	213	V

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

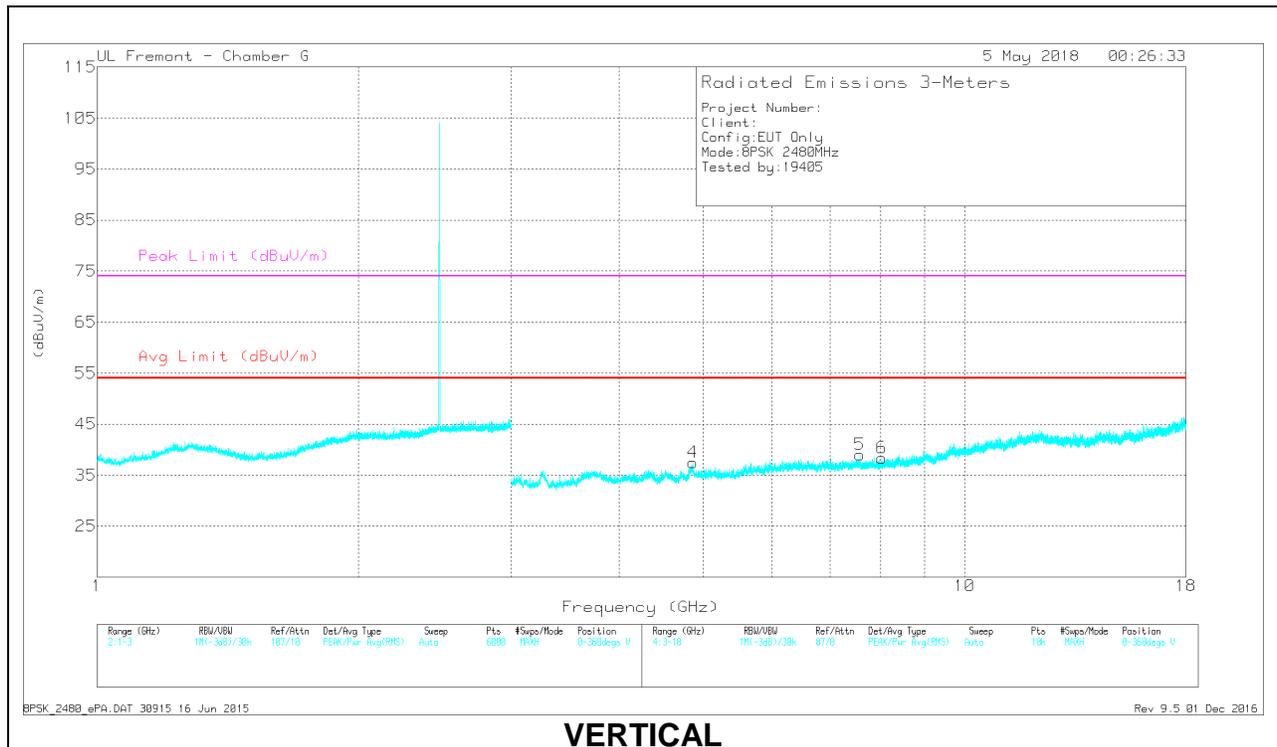
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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 T119 (dB/m)	Amp/Cbl/Fitr/Padded (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.839	40.22	PKFH	34.3	-32.2	42.32	-	-	74	-31.68	61	156	H
	* 4.837	28.07	VA1T	34.3	-32.2	30.17	54	-23.83	-	-	61	156	H
2	* 8.335	37.67	PKFH	35.7	-29.5	43.87	-	-	74	-30.13	76	172	H
	* 8.335	26.09	VA1T	35.7	-29.5	32.29	54	-21.71	-	-	76	172	H
3	* 9.32	36.47	PKFH	36.4	-27.8	45.07	-	-	74	-28.93	94	189	H
	* 9.316	25.02	VA1T	36.4	-27.8	33.62	54	-20.38	-	-	94	189	H
4	* 4.864	39.71	PKFH	34.2	-32.1	41.81	-	-	74	-32.19	87	205	V
	* 4.861	27.99	VA1T	34.3	-32.2	30.09	54	-23.91	-	-	87	205	V
5	* 7.569	38.89	PKFH	35.8	-29.7	44.99	-	-	74	-29.01	86	189	V
	* 7.568	26.18	VA1T	35.8	-29.8	32.18	54	-21.82	-	-	86	189	V
6	* 8.035	38.12	PKFH	35.8	-30	43.92	-	-	74	-30.08	87	223	V
	* 8.036	26.03	VA1T	35.8	-30	31.83	54	-22.17	-	-	87	223	V

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

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

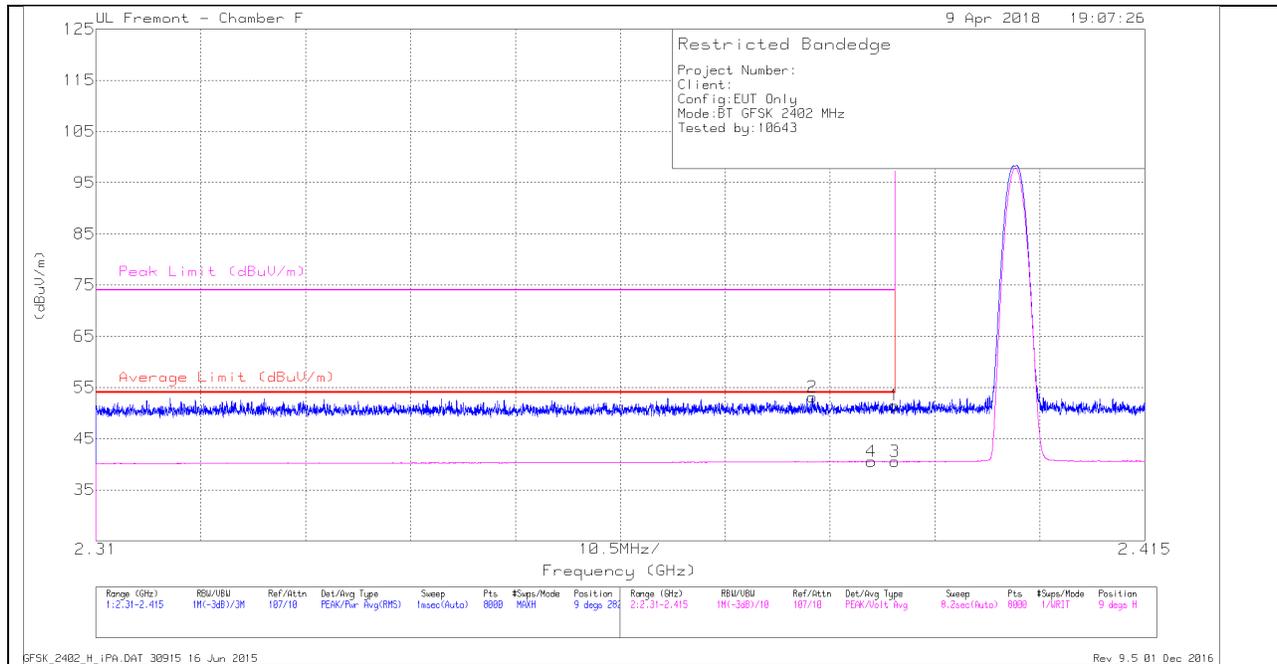
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.1.3. LOW POWER BASIC DATA RATE GFSK MODULATION

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



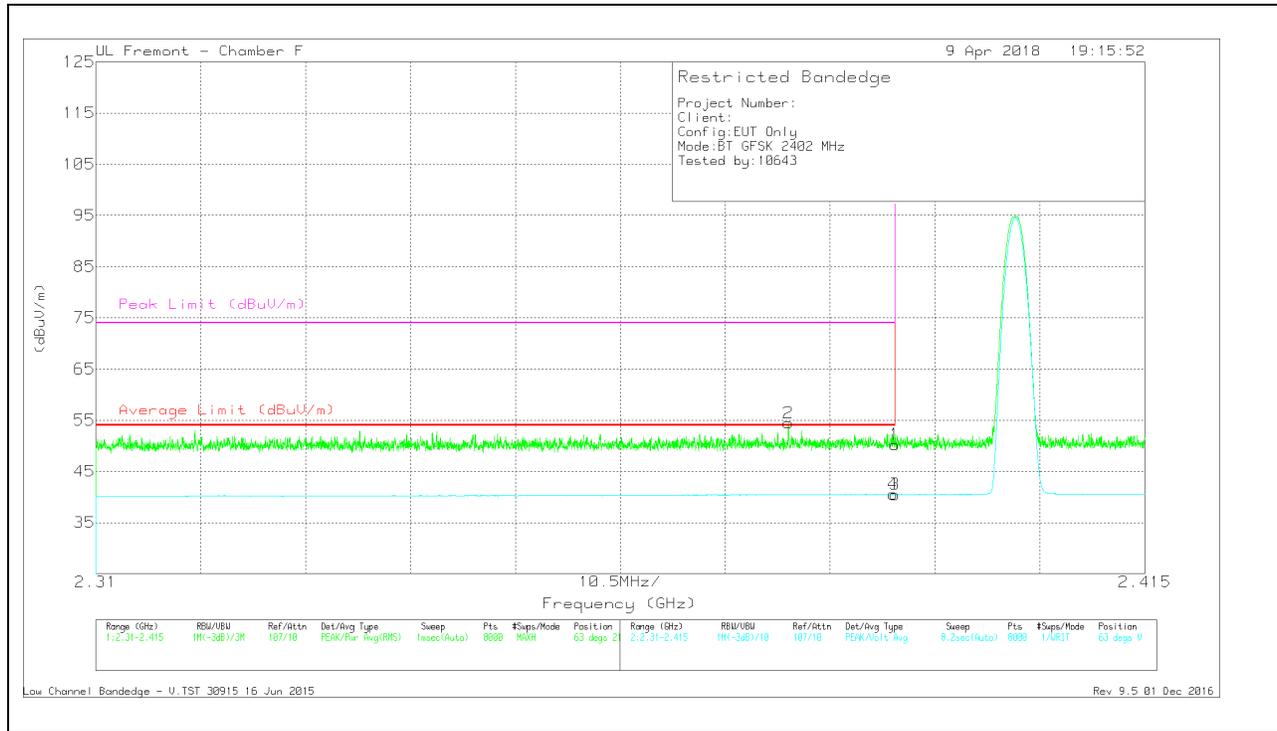
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.19	Pk	31.9	-20.6	51.49	-	-	74	-22.51	9	282	H
2	* 2.382	41.92	Pk	31.8	-20.6	53.12	-	-	74	-20.88	9	282	H
3	* 2.39	29.22	VA1T	31.9	-20.6	40.52	54	-13.48	-	-	9	282	H
4	* 2.388	29.26	VA1T	31.9	-20.6	40.56	54	-13.44	-	-	9	282	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 T119 (dB/m)	Amp/Cbl /Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.95	Pk	31.9	-20.6	50.25	-	-	74	-23.75	63	214	V
2	* 2.379	43.25	Pk	31.8	-20.6	54.45	-	-	74	-19.55	63	214	V
3	* 2.39	29.19	VA1T	31.9	-20.6	40.49	54	-13.51	-	-	63	214	V
4	* 2.39	29.22	VA1T	31.9	-20.6	40.52	54	-13.48	-	-	63	214	V

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

Pk - Peak detector

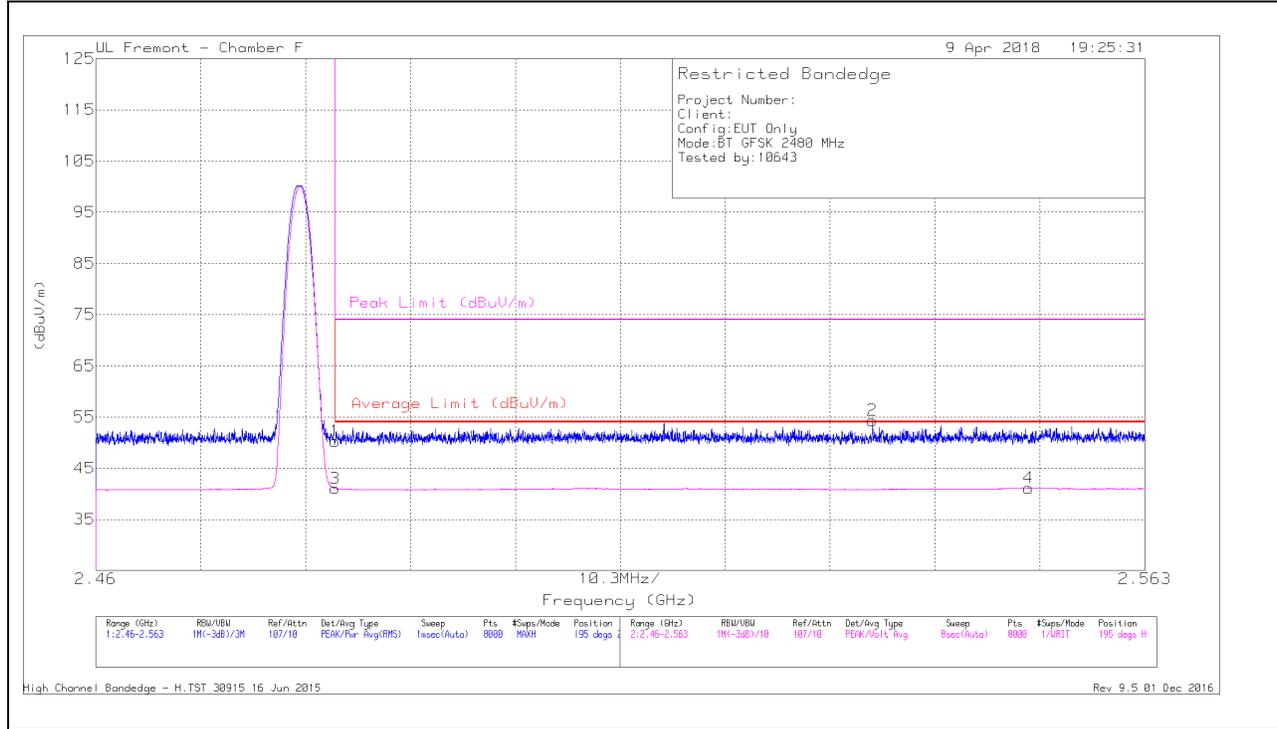
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

Low Channel Bandedge - V.TST 30915 16 Jun 2015

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BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	38.88	Pk	32.1	-20.7	50.28	-	-	74	-23.72	195	239	H
2	2.536	42.81	Pk	32.2	-20.7	54.31	-	-	74	-19.69	195	239	H
3	* 2.484	29.63	VA1T	32.1	-20.7	41.03	54	-12.97	-	-	195	239	H
4	2.552	29.42	VA1T	32.2	-20.5	41.12	54	-12.88	-	-	195	239	H

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

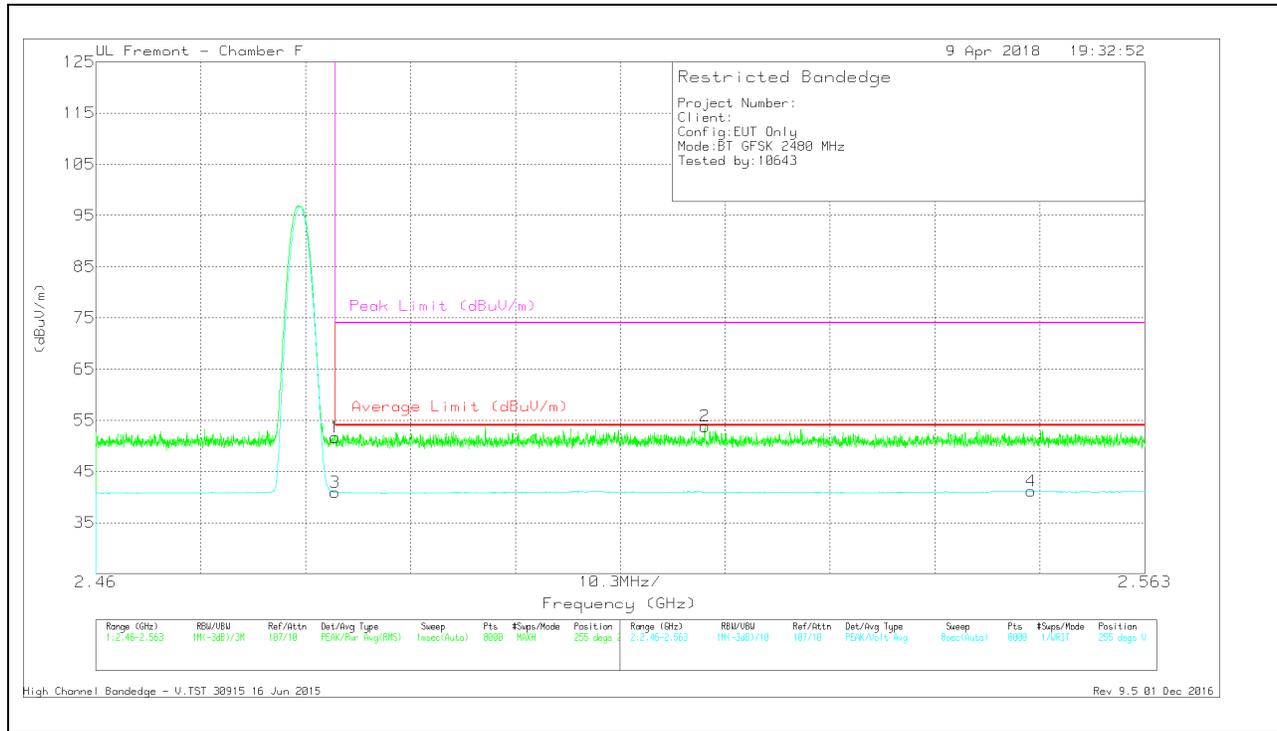
Pk - Peak detector

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

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VERTICAL RESULT



7	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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)	Polarity
1	* 2.484	40.22	Pk	32.1	-20.7	51.62	-	-	74	-22.38	255	238	V
2	2.52	42.23	Pk	32.2	-20.6	53.83	-	-	74	-20.17	255	238	V
3	* 2.484	29.53	VA1T	32.1	-20.7	40.93	54	-13.07	-	-	255	238	V
4	2.552	29.43	VA1T	32.2	-20.5	41.13	54	-12.87	-	-	255	238	V

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

Pk - Peak detector

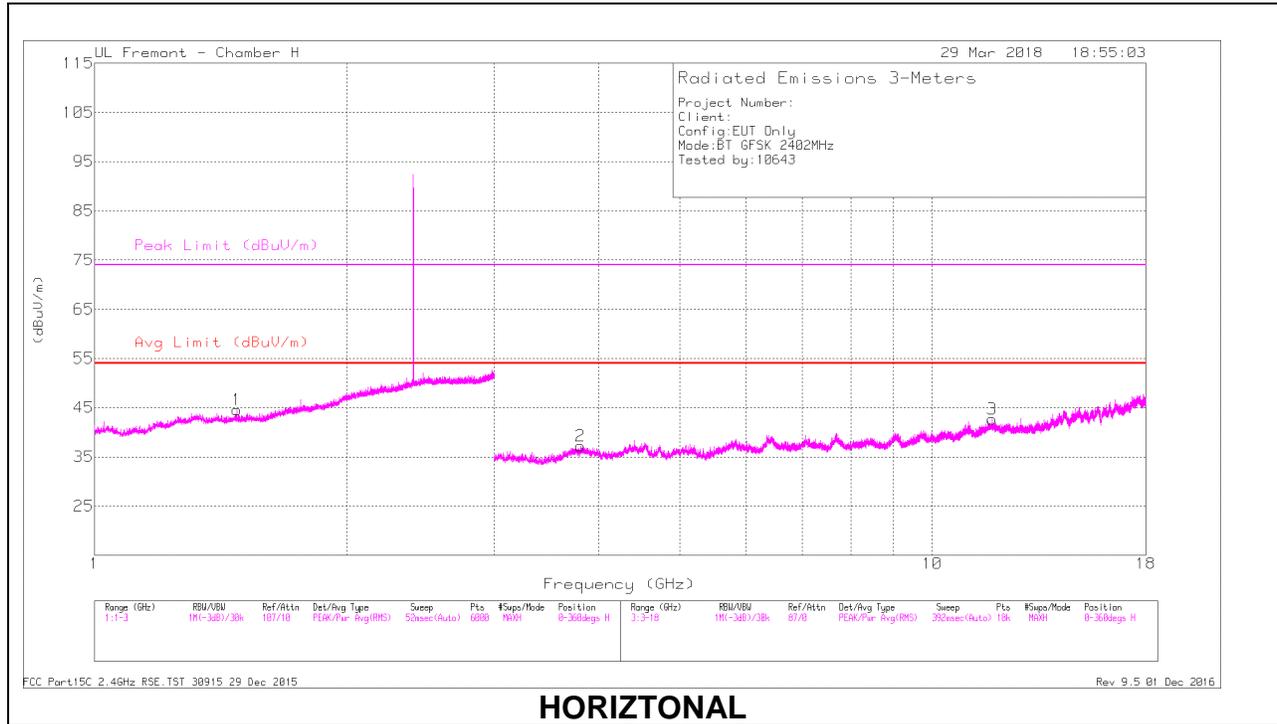
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

High Channel Bandedge - V.TST 30915 16 Jun 2015

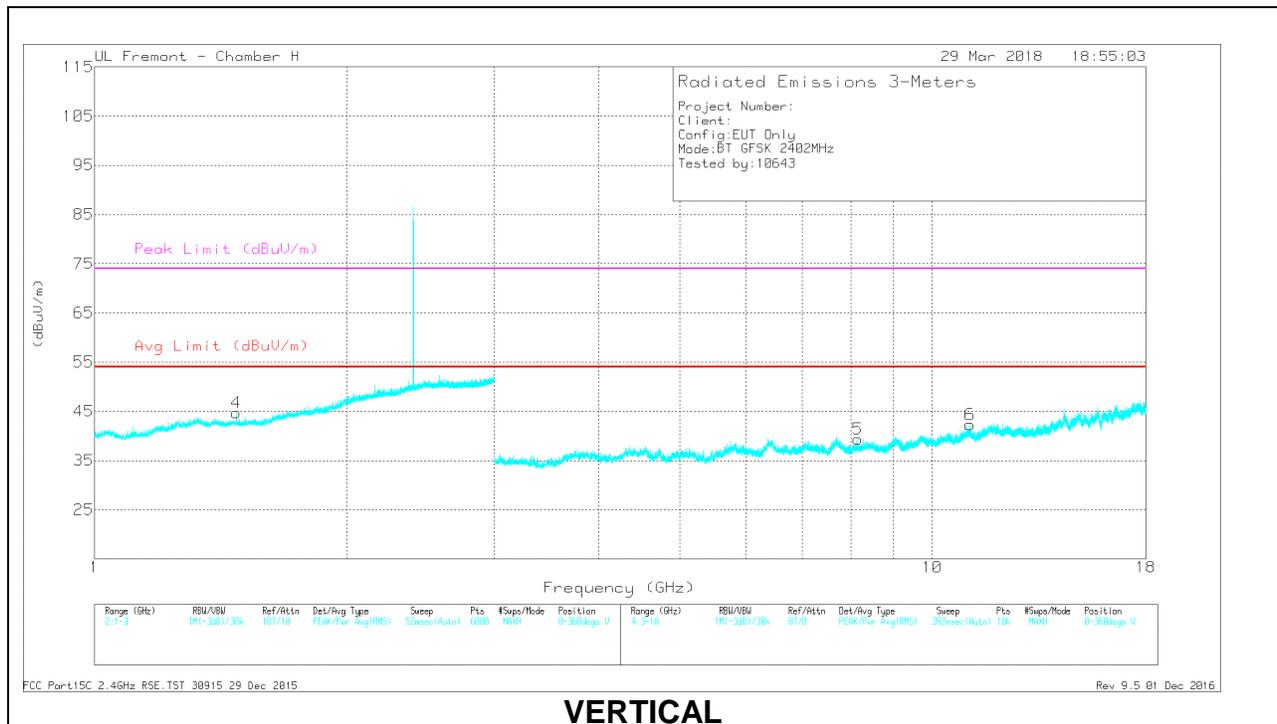
Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

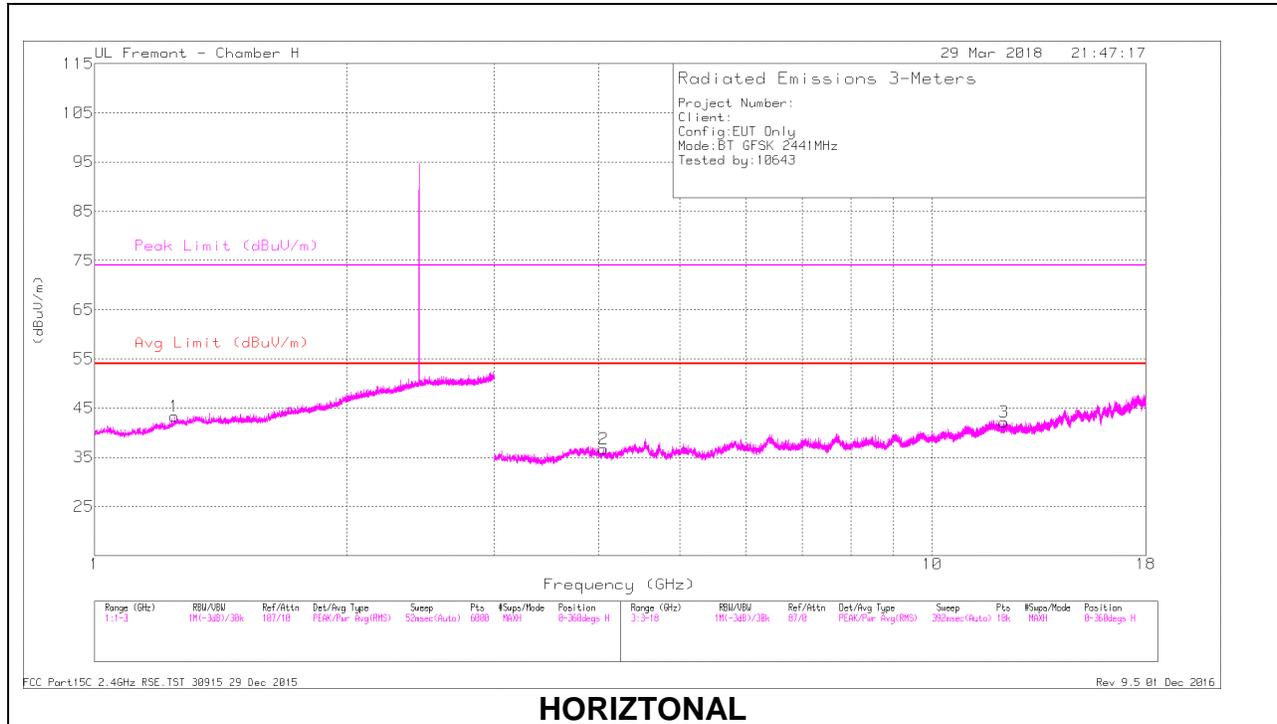
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.477	35.75	PKFH	28.5	-15.4	48.85	-	-	74	-25.15	111	178	H
	* 1.477	23.87	VA1T	28.5	-15.4	36.97	54	-17.03	-	-	111	178	H
2	* 3.808	44.15	PKFH	33.2	-34.9	42.45	-	-	74	-31.55	313	211	H
	* 3.805	32.61	VA1T	33.2	-34.9	30.91	54	-23.09	-	-	313	211	H
3	* 11.789	35.22	PKFH	38.9	-26	48.12	-	-	74	-25.88	335	331	H
	* 11.79	23.31	VA1T	38.9	-26	36.21	54	-17.79	-	-	335	331	H
4	* 1.478	35.8	PKFH	28.5	-15.4	48.9	-	-	74	-25.1	269	301	V
	* 1.476	23.87	VA1T	28.5	-15.4	36.97	54	-17.03	-	-	269	301	V
5	* 8.154	38.96	PKFH	36.2	-30	45.16	-	-	74	-28.84	122	144	V
	* 8.156	26.16	VA1T	36.2	-30	32.36	54	-21.64	-	-	122	144	V
6	* 11.097	36.66	PKFH	38.3	-26.9	48.06	-	-	74	-25.94	204	120	V
	* 11.099	23.83	VA1T	38.3	-26.9	35.23	54	-18.77	-	-	204	120	V

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

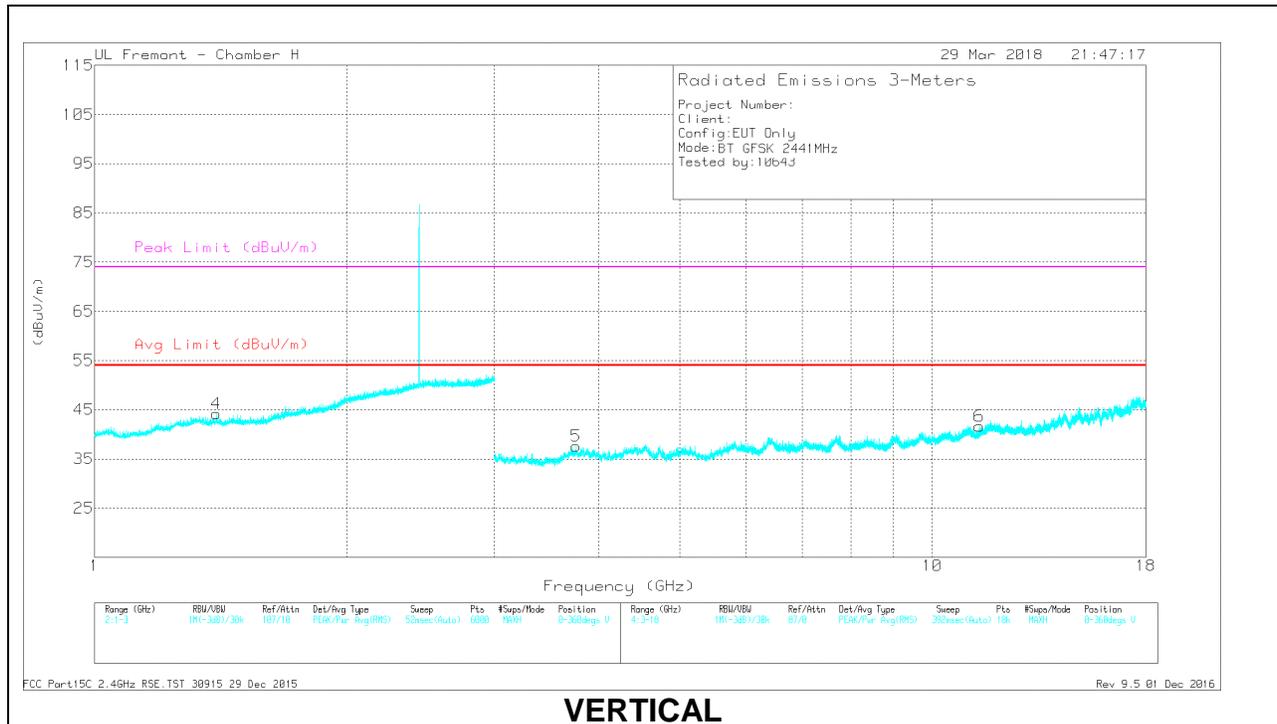
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

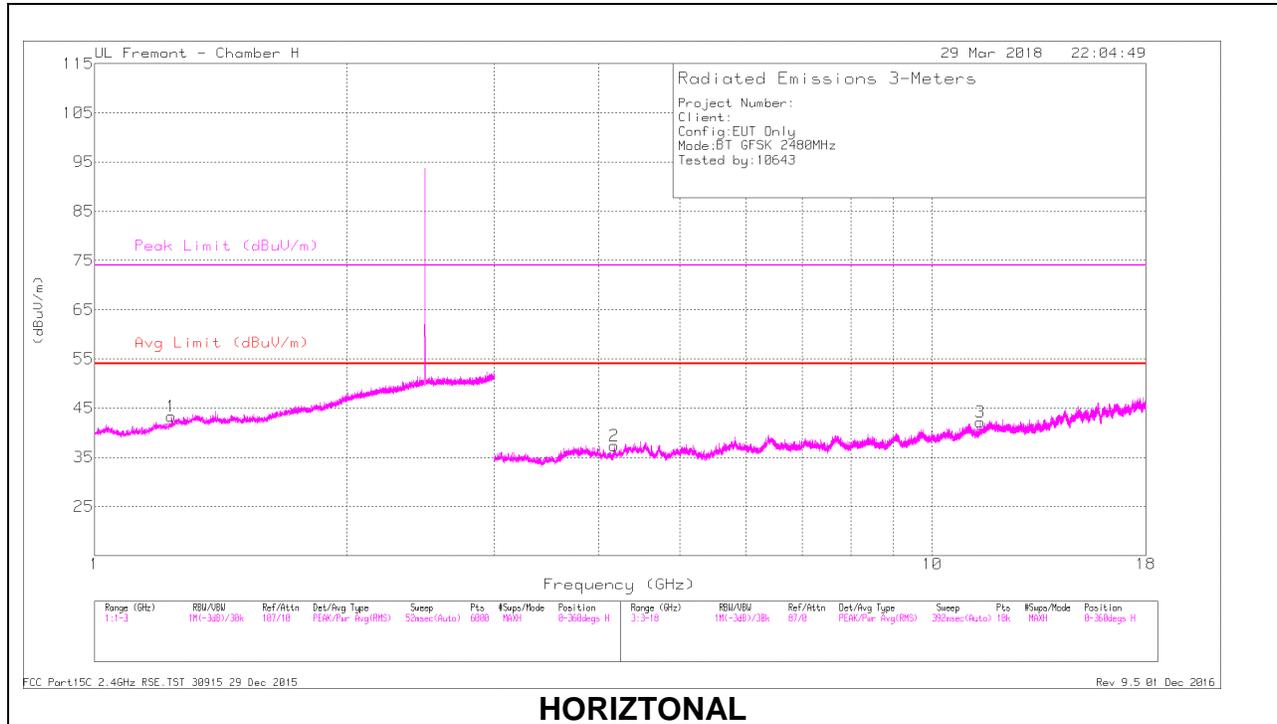
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.246	35.72	PKFH	28.5	-16	48.22	-	-	74	-25.78	164	215	H
	* 1.248	24.1	VA1T	28.5	-16	36.6	54	-17.4	-	-	164	215	H
2	* 4.053	42.95	PKFH	33.5	-34.5	41.95	-	-	74	-32.05	252	237	H
	* 4.053	31.07	VA1T	33.5	-34.5	30.07	54	-23.93	-	-	252	237	H
3	* 12.189	35.75	PKFH	38.7	-26	48.45	-	-	74	-25.55	199	187	H
	* 12.191	22.76	VA1T	38.7	-26	35.46	54	-18.54	-	-	199	187	H
4	* 1.4	35.67	PKFH	28.8	-15.6	48.87	-	-	74	-25.13	62	167	V
	* 1.397	23.9	VA1T	28.8	-15.6	37.1	54	-16.9	-	-	62	167	V
5	* 3.759	44.1	PKFH	33.1	-35	42.2	-	-	74	-31.8	163	204	V
	* 3.76	32.91	VA1T	33.1	-35	31.01	54	-22.99	-	-	163	204	V
6	* 11.389	35.36	PKFH	38.2	-26.4	47.16	-	-	74	-26.84	280	235	V
	* 11.387	23.04	VA1T	38.2	-26.4	34.84	54	-19.16	-	-	280	235	V

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

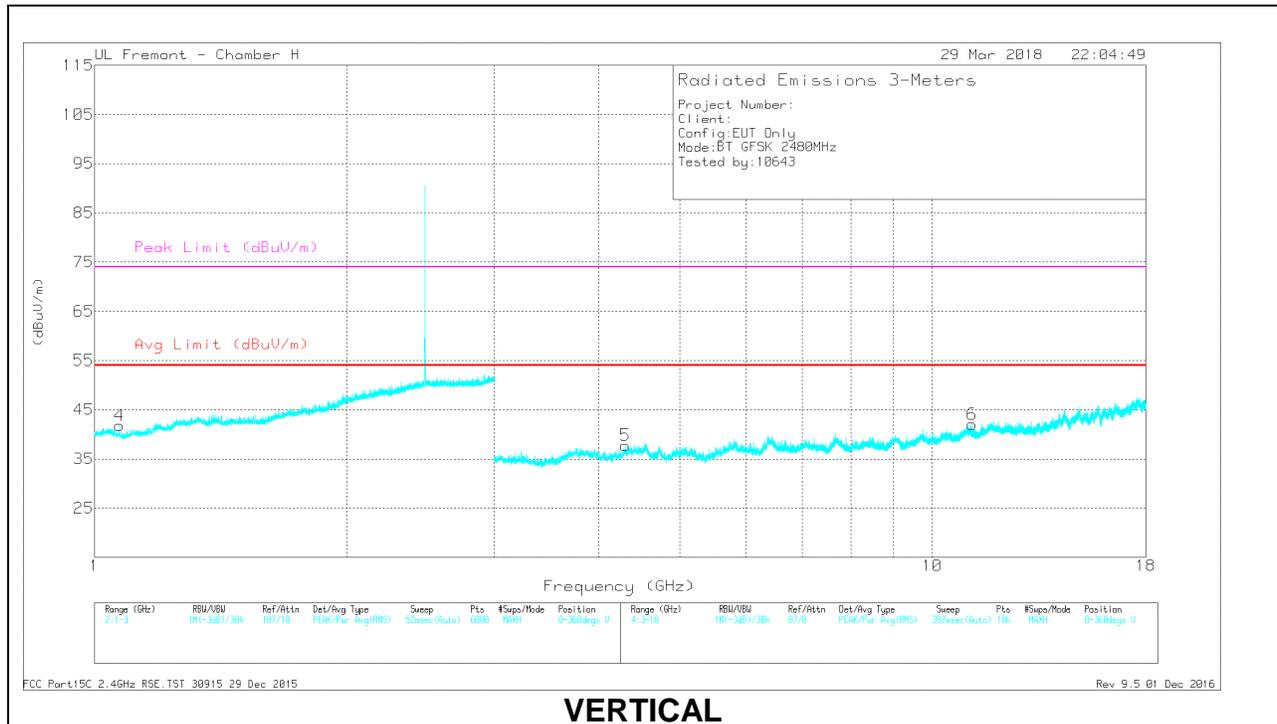
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.237	35.41	PKFH	28.4	-16	47.81	-	-	74	-26.19	186	270	H
	* 1.237	23.62	VA1T	28.4	-16	36.02	54	-17.98	-	-	186	270	H
2	* 4.177	44.15	PKFH	33.5	-34.5	43.15	-	-	74	-30.85	171	168	H
	* 4.175	31.43	VA1T	33.5	-34.5	30.43	54	-23.57	-	-	171	168	H
3	* 11.418	34.62	PKFH	38.3	-26.4	46.52	-	-	74	-27.48	284	214	H
	* 11.418	22.96	VA1T	38.3	-26.4	34.86	54	-19.14	-	-	284	214	H
4	* 1.073	35.43	PKFH	27.1	-16.1	46.43	-	-	74	-27.57	254	204	V
	* 1.07	23.52	VA1T	27.1	-16.1	34.52	54	-19.48	-	-	254	204	V
5	* 4.307	44.31	PKFH	33.7	-34.7	43.31	-	-	74	-30.69	293	154	V
	* 4.305	32.25	VA1T	33.7	-34.7	31.25	54	-22.75	-	-	293	154	V
6	* 11.162	34.51	PKFH	38.2	-26.6	46.11	-	-	74	-27.89	183	244	V
	* 11.161	23	VA1T	38.2	-26.7	34.5	54	-19.5	-	-	183	244	V

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

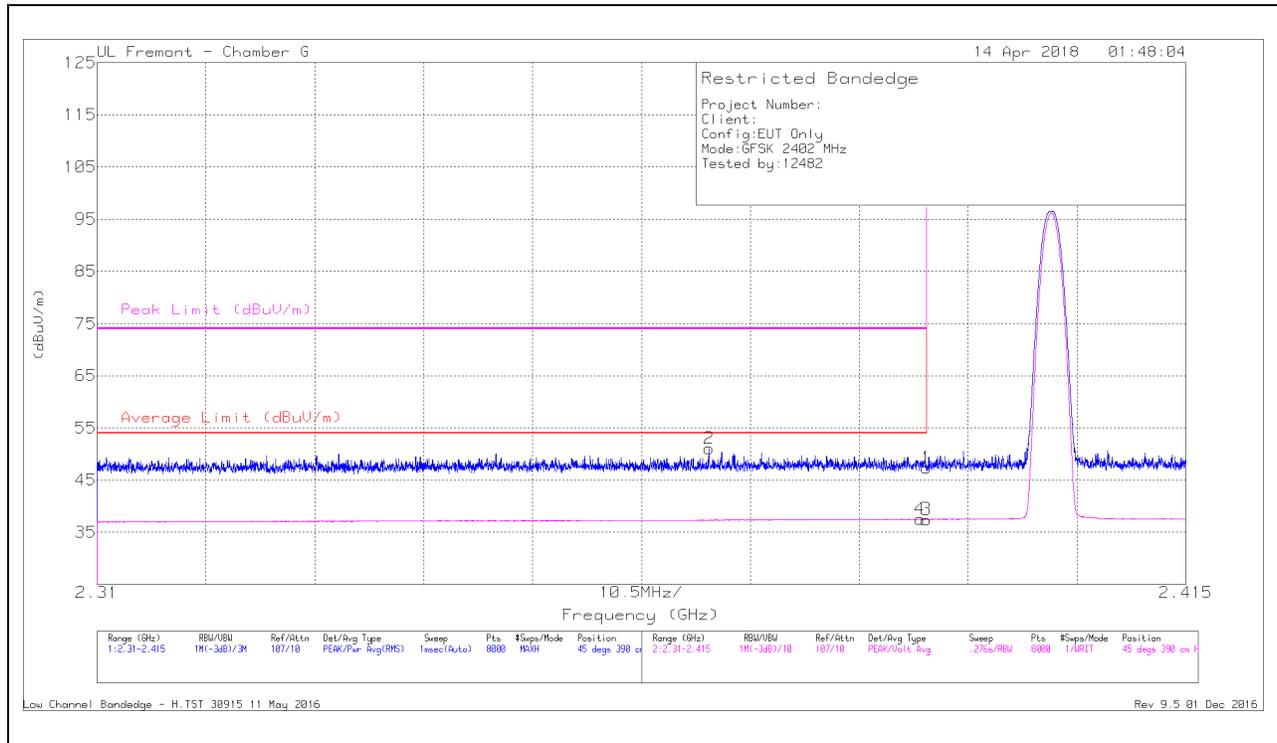
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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 T345 (dB/m)	Amp/Cb/Fltr/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	* 2.369	43.4	Pk	31.9	-24.3	51	-	-	74	-23	45	390	H
4	* 2.389	29.78	VA1T	32	-24.3	37.48	54	-16.52	-	-	45	390	H
1	* 2.39	39.66	Pk	32	-24.3	47.36	-	-	74	-26.64	45	390	H
3	* 2.39	29.74	VA1T	32	-24.3	37.44	54	-16.56	-	-	45	390	H

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

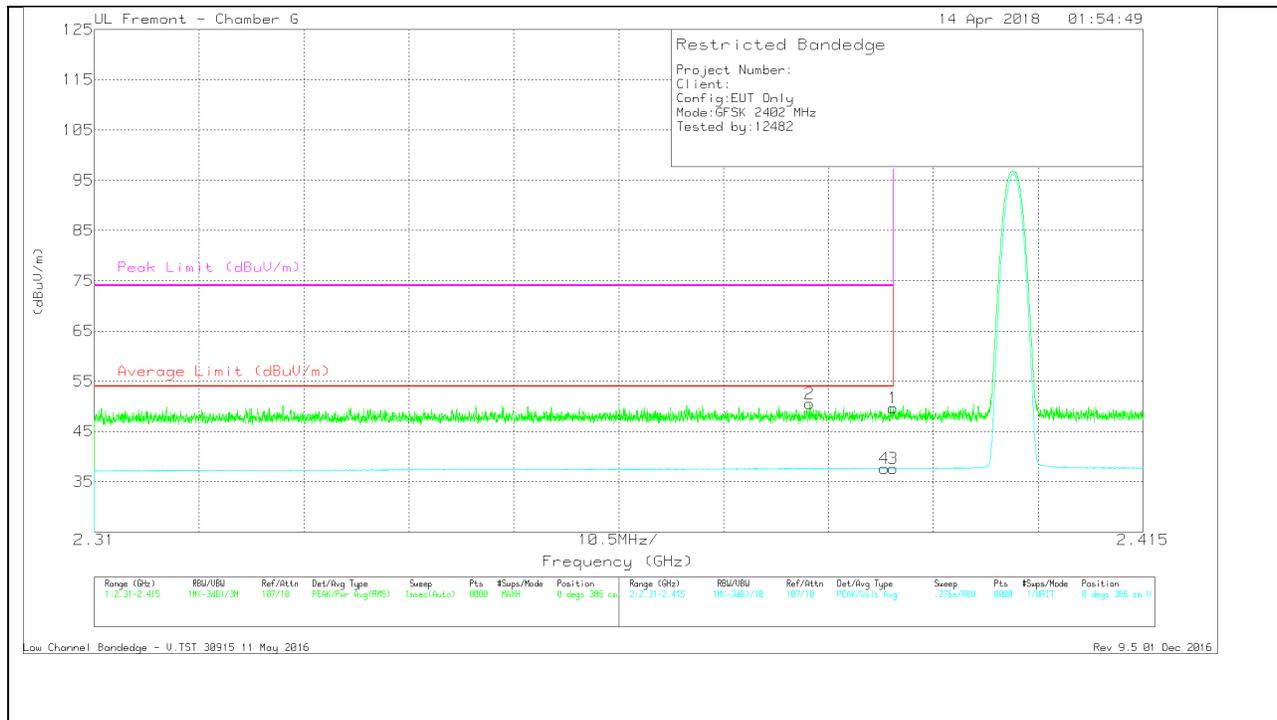
Pk - Peak detector

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

Low Channel Bandedge - H.TST 30915 11 May 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.96	Pk	32	-24.3	49.66	-	-	74	-24.34	0	386	V
2	* 2.382	42.79	Pk	32	-24.3	50.49	-	-	74	-23.51	0	386	V
3	* 2.39	29.89	VA1T	32	-24.3	37.59	54	-16.41	-	-	0	386	V
4	* 2.389	29.95	VA1T	32	-24.3	37.65	54	-16.35	-	-	0	386	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

Low Channel Bandedge - V.TST 30915 11 May 2016

Rev 9.5 01 Dec 2016

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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	42.24	Pk	32.1	-24.3	50.04	-	-	74	-23.96	121	291	H
2	* 2.487	43.9	Pk	32.1	-24.3	51.7	-	-	74	-22.3	121	291	H
3	* 2.484	31.03	VA1T	32.1	-24.3	38.83	54	-15.17	-	-	121	291	H
4	* 2.484	31.03	VA1T	32.1	-24.3	38.83	54	-15.17	-	-	121	291	H

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

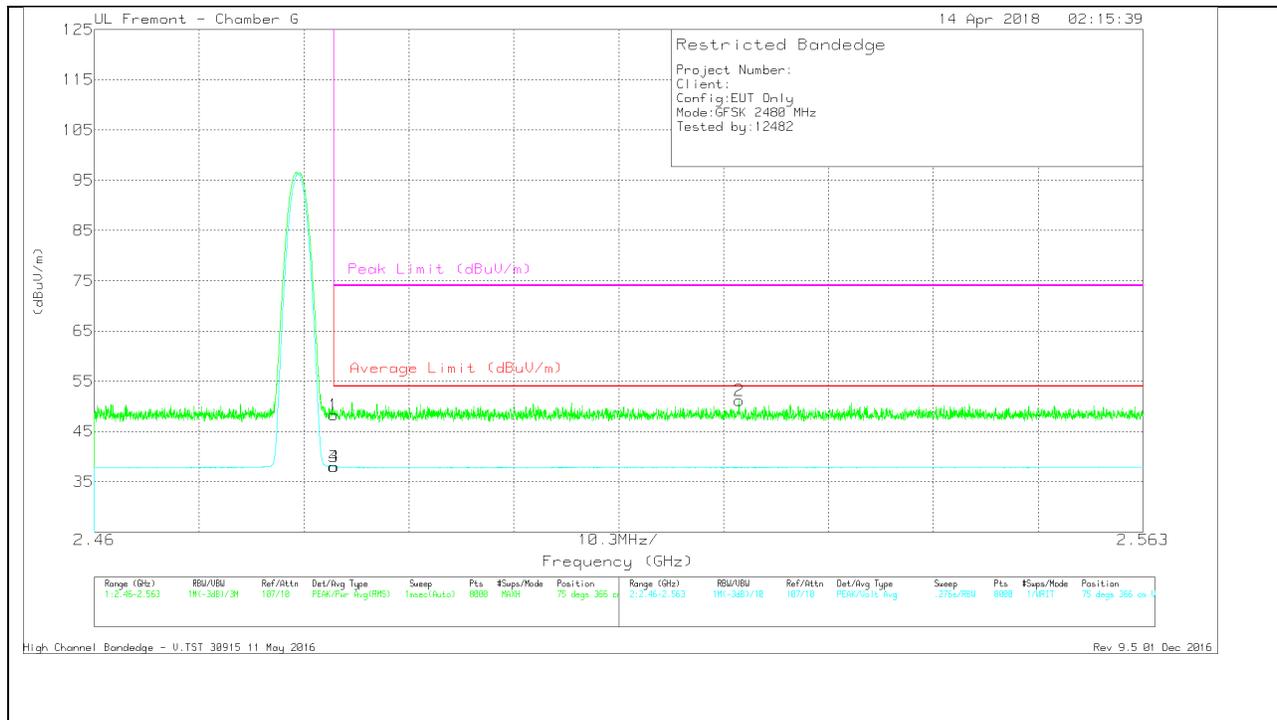
Pk - Peak detector

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

High Channel Bandedge - H.TST 30915 11 May 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT345 (dB/m)	Amp/Cb/Ftr/Pa d (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	40.45	Pk	32.1	-24.3	48.25	-	-	74	-25.75	75	366	V
3	* 2.484	30.21	VA1T	32.1	-24.3	38.01	54	-15.99	-	-	75	366	V
4	* 2.484	30.21	VA1T	32.1	-24.3	38.01	54	-15.99	-	-	75	366	V
2	2.523	43.34	Pk	32.1	-24.3	51.14	-	-	74	-22.86	75	366	V

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

Pk - Peak detector

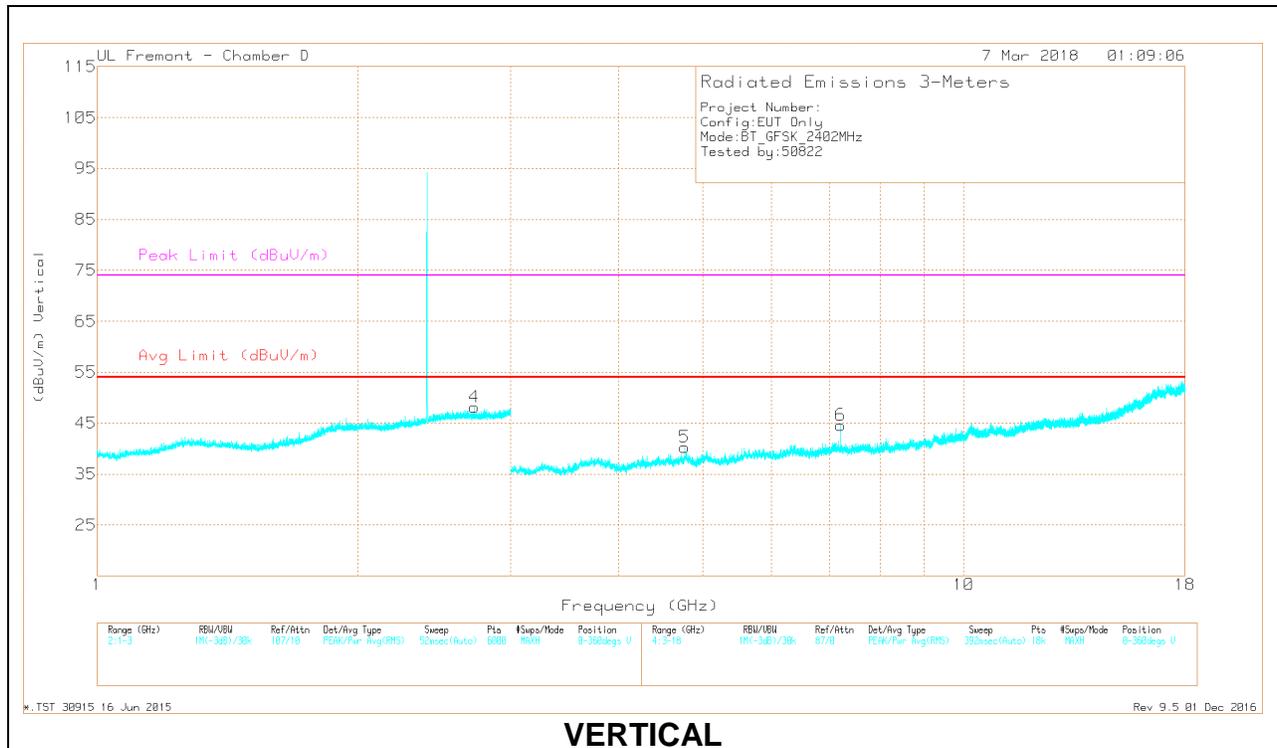
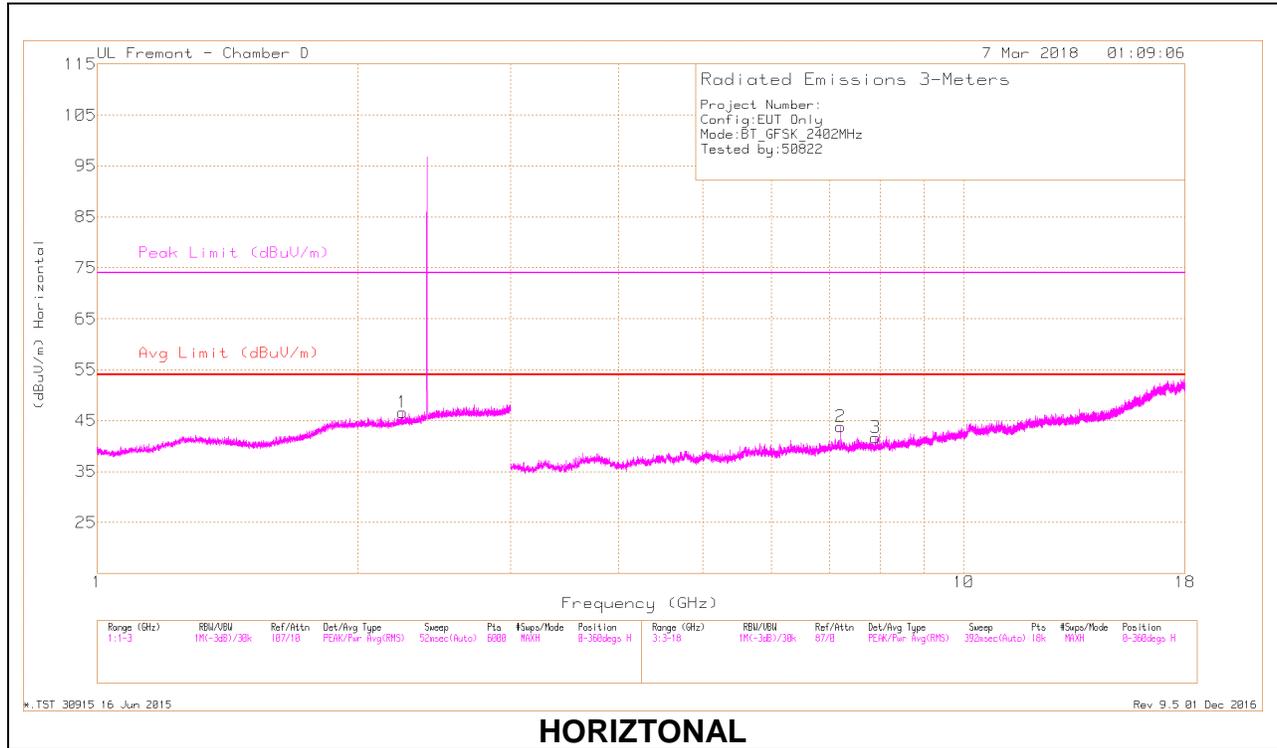
VA1T - FHSS: Linear Voltage Average $V_B=1/T_{on}$ where: T_{on} is transmit duration

High Channel Bandedge - V.TST 30915 11 May 2016

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

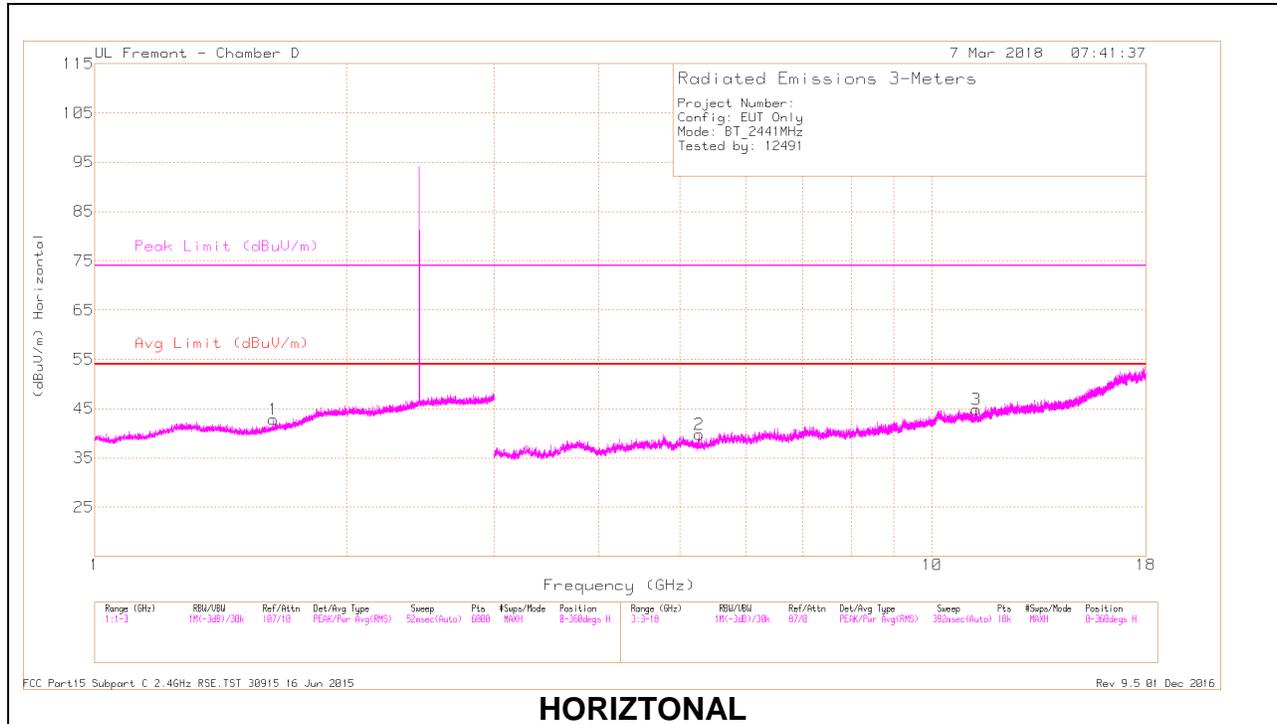
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.249	40.18	PKFH	31.5	-20.7	50.98	-	-	74	-23.02	60	202	H
	* 2.25	28.58	VA1T	31.5	-20.7	39.38	54	-14.62	-	-	60	202	H
4	* 2.722	39.8	PKFH	32.6	-20.2	52.2	-	-	74	-21.8	354	112	V
	* 2.722	28.5	VA1T	32.6	-20.2	40.9	54	-13.1	-	-	354	112	V
5	* 4.765	36.51	PKFH	34.6	-26.3	44.81	-	-	74	-29.19	356	102	V
	* 4.767	25.09	VA1T	34.5	-26.3	33.29	54	-20.71	-	-	356	102	V
2	7.205	35.13	PKFH	36.3	-24.6	46.83	-	-	-	-	341	112	V
6	7.206	37.13	PKFH	36.3	-24.6	48.83	-	-	-	-	265	102	H
3	7.913	34.09	PKFH	35.8	-23.7	46.19	-	-	-	-	0	102	H

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

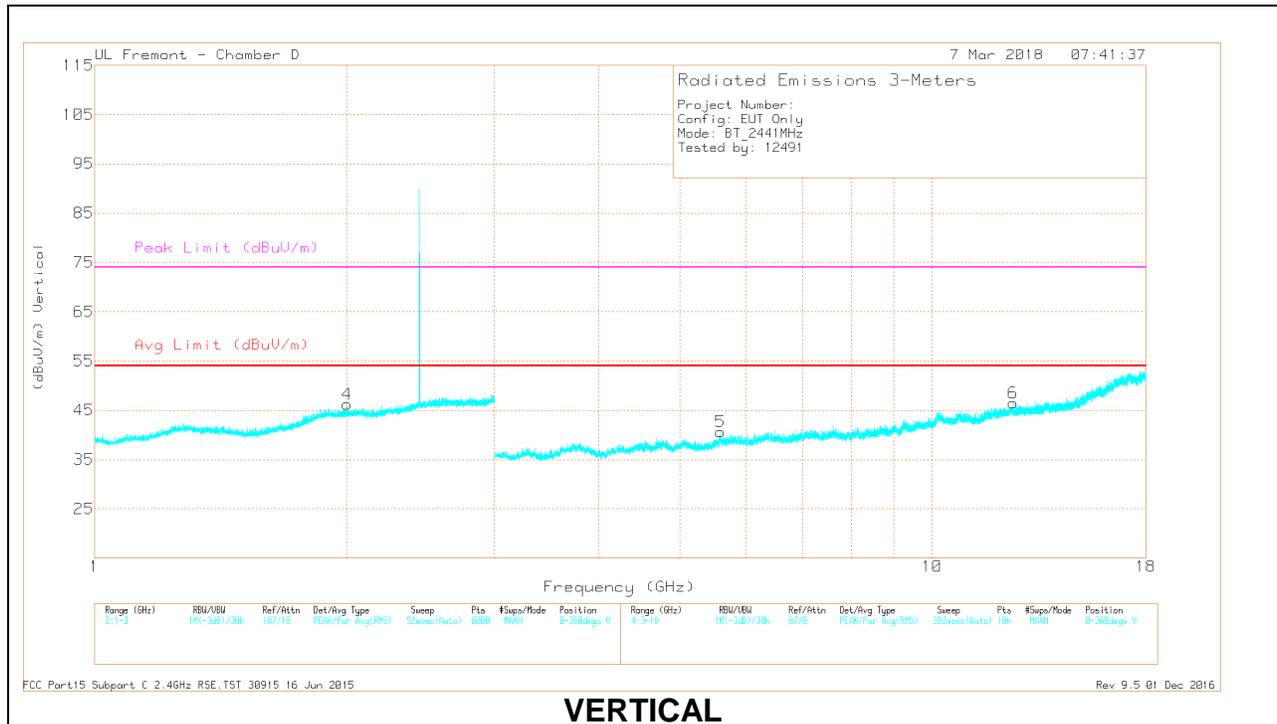
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

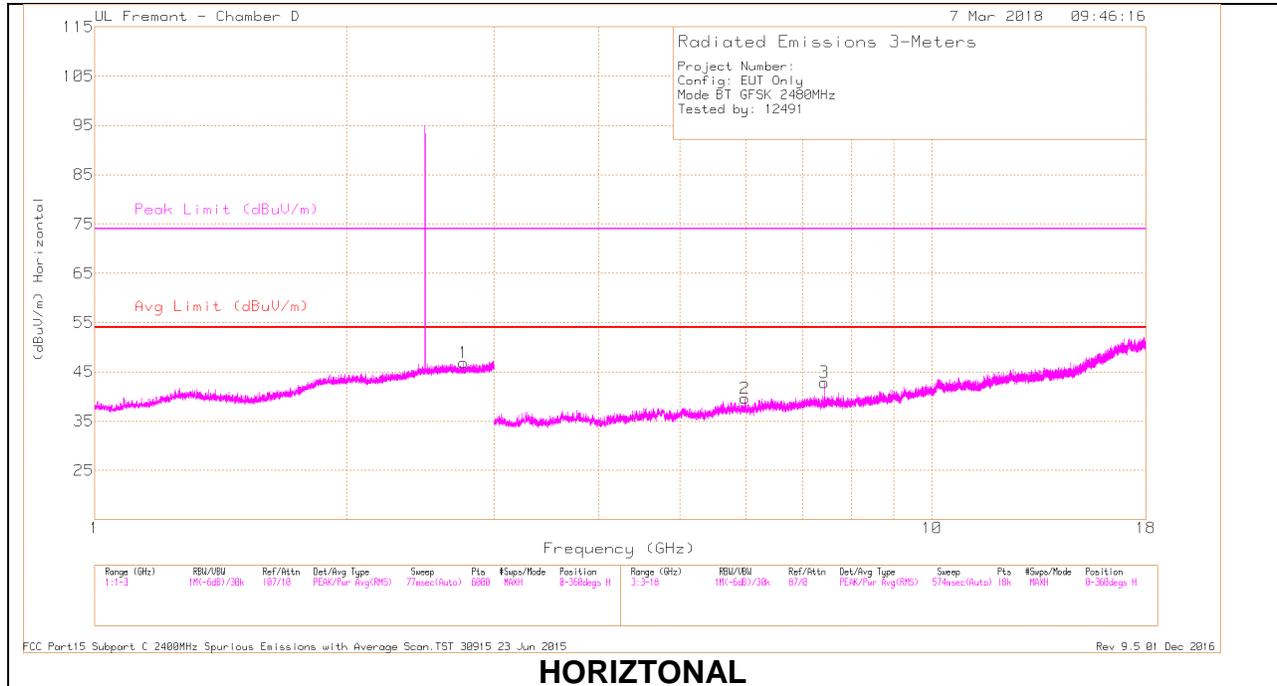
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.635	40.44	PKFH	28.7	-21.5	47.64	-	-	-	-	332	179	H
2	5.266	35.83	PKFH	34.8	-26.6	44.03	-	-	-	-	1	172	H
3	* 11.288	32.11	PKFH	37.8	-19.9	50.01	-	-	74	-23.99	316	337	H
	* 11.288	20.27	VA1T	37.8	-19.9	38.17	54	-15.83	-	-	316	337	H
4	2.003	40.06	PKFH	31.5	-21.1	50.46	-	-	-	-	144	330	V
5	5.595	36.25	PKFH	35.2	-26.2	45.25	-	-	-	-	245	342	V
6	* 12.502	32.88	PKFH	39	-19.8	52.08	-	-	74	-21.92	357	271	V
	* 12.504	20.79	VA1T	39	-19.9	39.89	54	-14.11	-	-	357	271	V

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

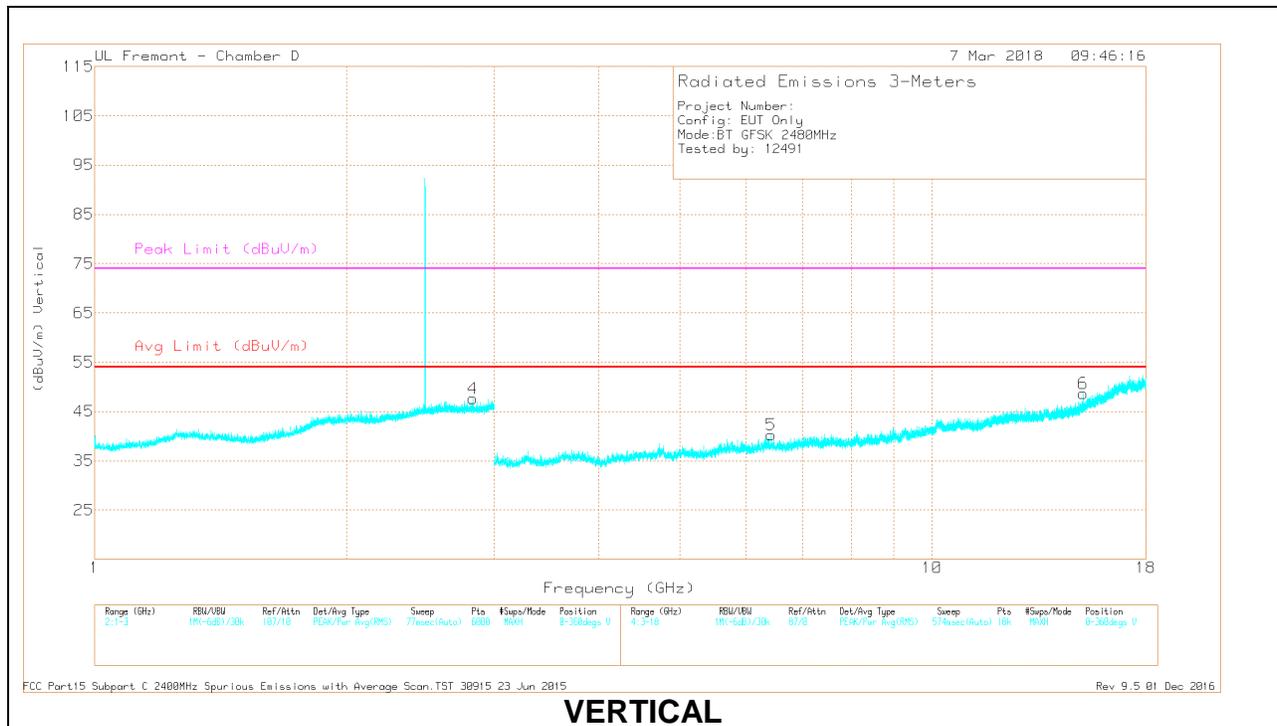
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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 T136 (dB/m)	Amp/Cbl/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	* 2.758	39.06	PKFH	32.5	-20.1	51.46	-	-	74	-22.54	331	208	H
	* 2.757	26.79	VA1T	32.5	-20.1	39.19	54	-14.81	-	-	331	208	H
2	5.982	34.48	PKFH	35.8	-26.4	43.88	-	-	-	-	0	322	H
3	* 7.439	34.91	PKFH	36.2	-24	47.11	-	-	74	-26.89	91	104	H
	* 7.44	23.34	VA1T	36.2	-24	35.54	54	-18.46	-	-	91	104	H
4	* 2.827	37.99	PKFH	32.6	-19.9	50.69	-	-	74	-23.31	233	250	V
	* 2.825	26.75	VA1T	32.6	-19.9	39.45	54	-14.55	-	-	233	250	V
5	6.431	34.69	PKFH	36	-25.9	44.79	-	-	-	-	84	355	V
6	15.147	32.49	PKFH	40.2	-20.3	52.39	-	-	-	-	95	240	V

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

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

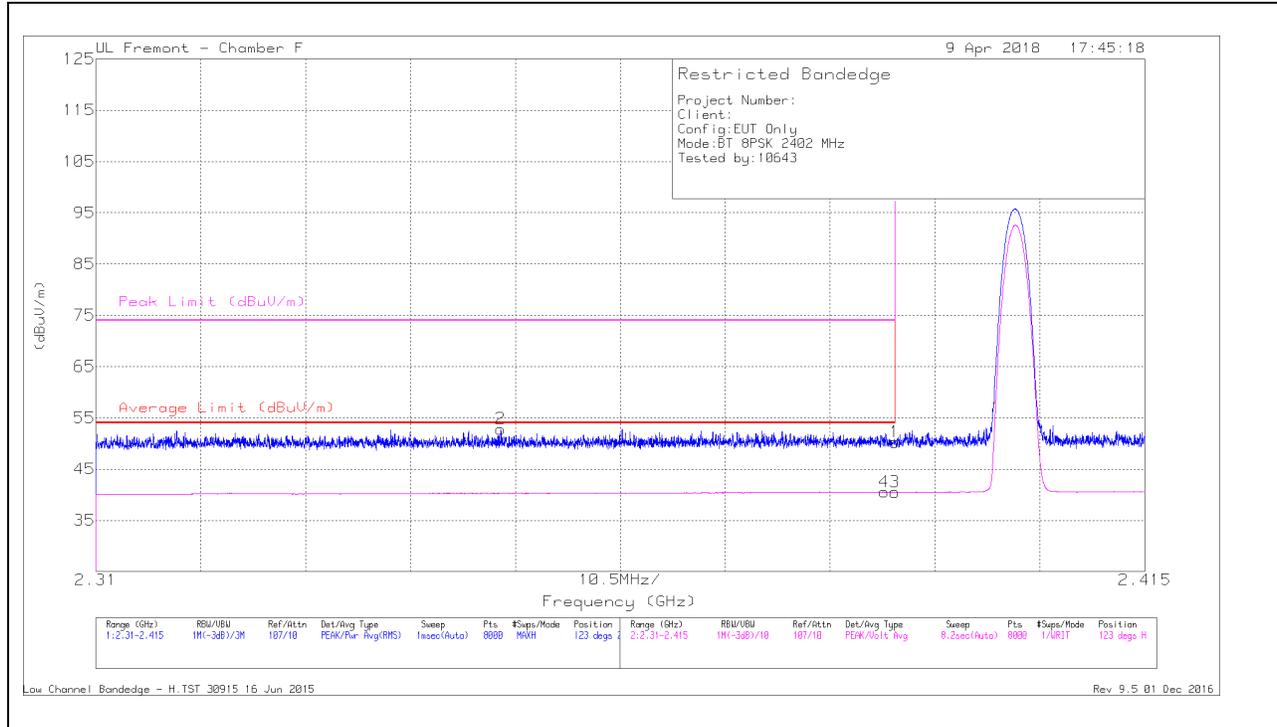
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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 T119 (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	38.99	Pk	31.9	-20.6	50.29	-	-	74	-23.71	123	218	H
2	* 2.351	41.83	Pk	31.7	-20.7	52.83	-	-	74	-21.17	123	218	H
3	* 2.39	29.2	VA1T	31.9	-20.6	40.5	54	-13.5	-	-	123	218	H
4	* 2.389	29.22	VA1T	31.9	-20.6	40.52	54	-13.48	-	-	123	218	H

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

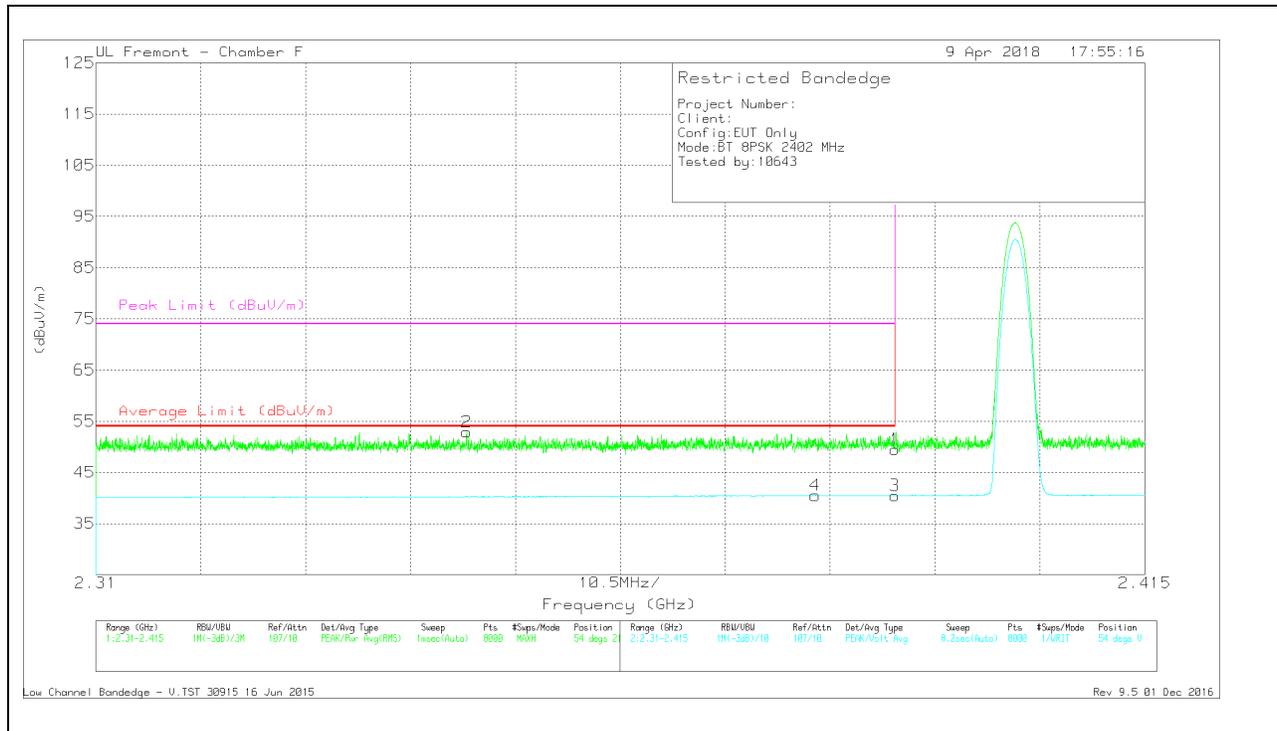
Pk - Peak detector

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

Low Channel Bandedge - H.TST 30915 16 Jun 2015

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	38.19	Pk	31.9	-20.6	49.49	-	-	74	-24.51	54	212	V
2	* 2.347	41.88	Pk	31.7	-20.7	52.88	-	-	74	-21.12	54	212	V
3	* 2.39	29.16	VA1T	31.9	-20.6	40.46	54	-13.54	-	-	54	212	V
4	* 2.382	29.31	VA1T	31.8	-20.6	40.51	54	-13.49	-	-	54	212	V

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

Pk - Peak detector

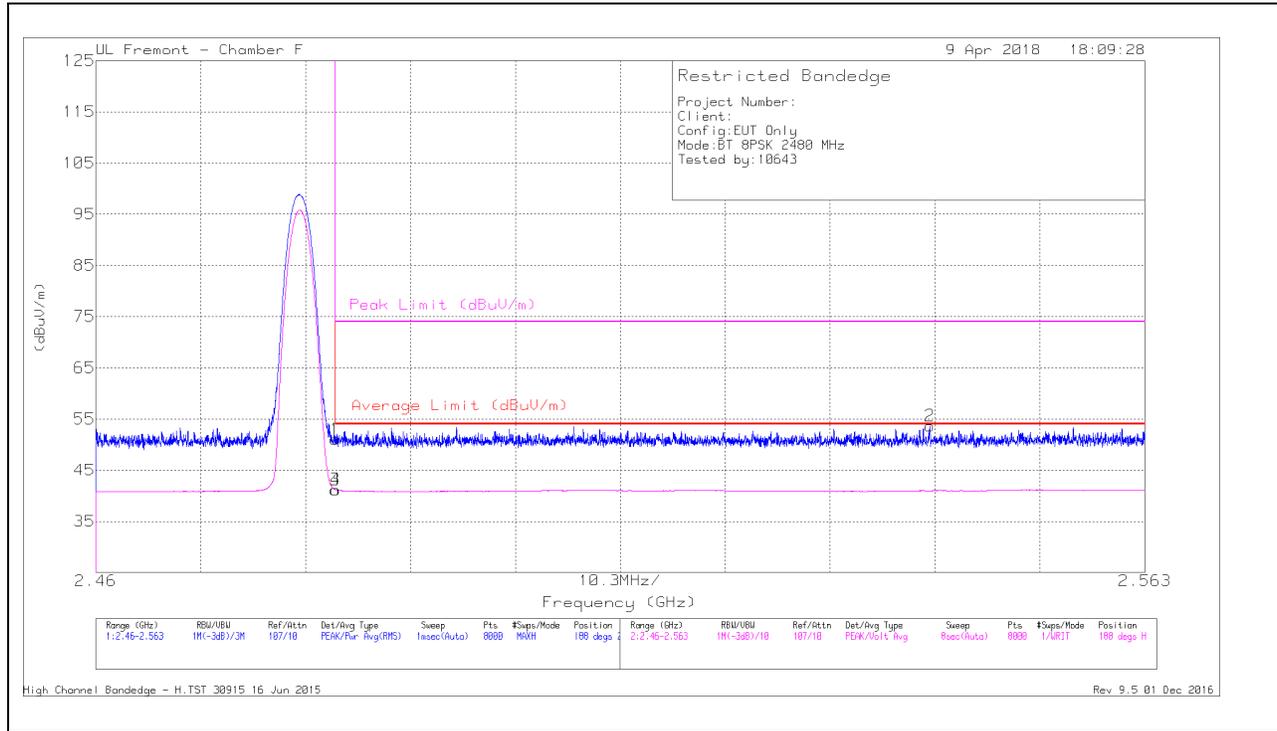
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

Low Channel Bandedge - V.TST 30915 16 Jun 2015

Rev 9.5 01 Dec 2016

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	39.66	Pk	32.1	-20.7	51.06	-	-	74	-22.94	188	240	H
2	2.542	42.14	Pk	32.2	-20.7	53.64	-	-	74	-20.36	188	240	H
3	* 2.484	29.81	VA1T	32.1	-20.7	41.21	54	-12.79	-	-	188	240	H
4	* 2.484	29.79	VA1T	32.1	-20.7	41.19	54	-12.81	-	-	188	240	H

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

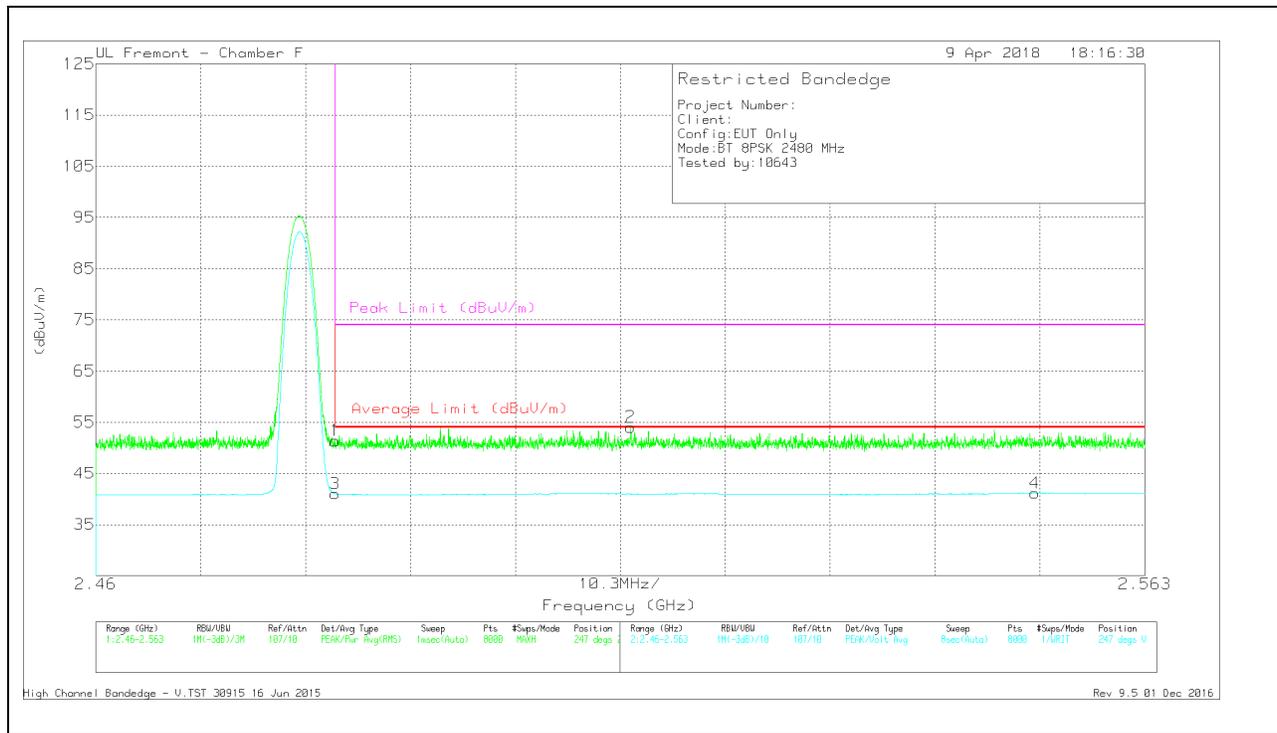
Pk - Peak detector

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

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Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Fltr/Pa d (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	39.97	Pk	32.1	-20.7	51.37	-	-	74	-22.63	247	223	V
2	2.513	42.53	Pk	32.2	-20.7	54.03	-	-	74	-19.97	247	223	V
3	* 2.484	29.62	VA1T	32.1	-20.7	41.02	54	-12.98	-	-	247	223	V
4	2.552	29.46	VA1T	32.2	-20.5	41.16	54	-12.84	-	-	247	223	V

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

Pk - Peak detector

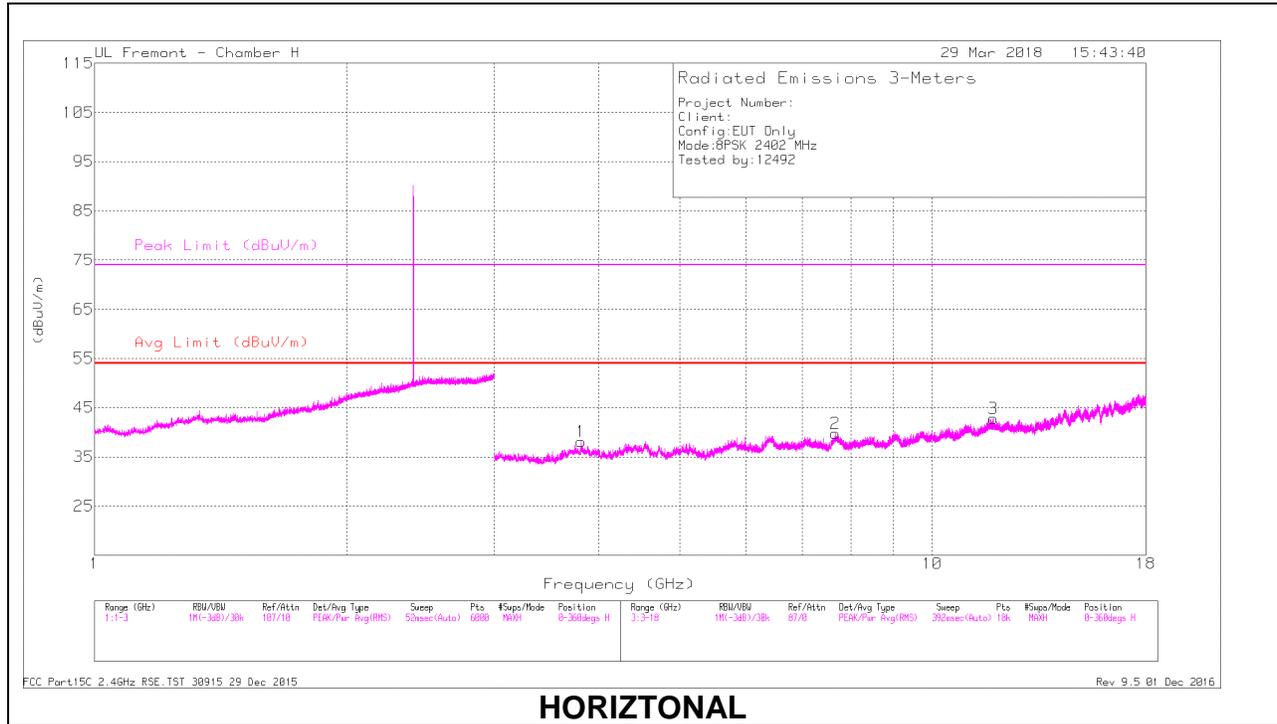
VA1T - FHSS: Linear Voltage Average $V_B=1/T_{on}$ where: T_{on} is transmit duration

High Channel Bandedge - V.TST 30915 16 Jun 2015

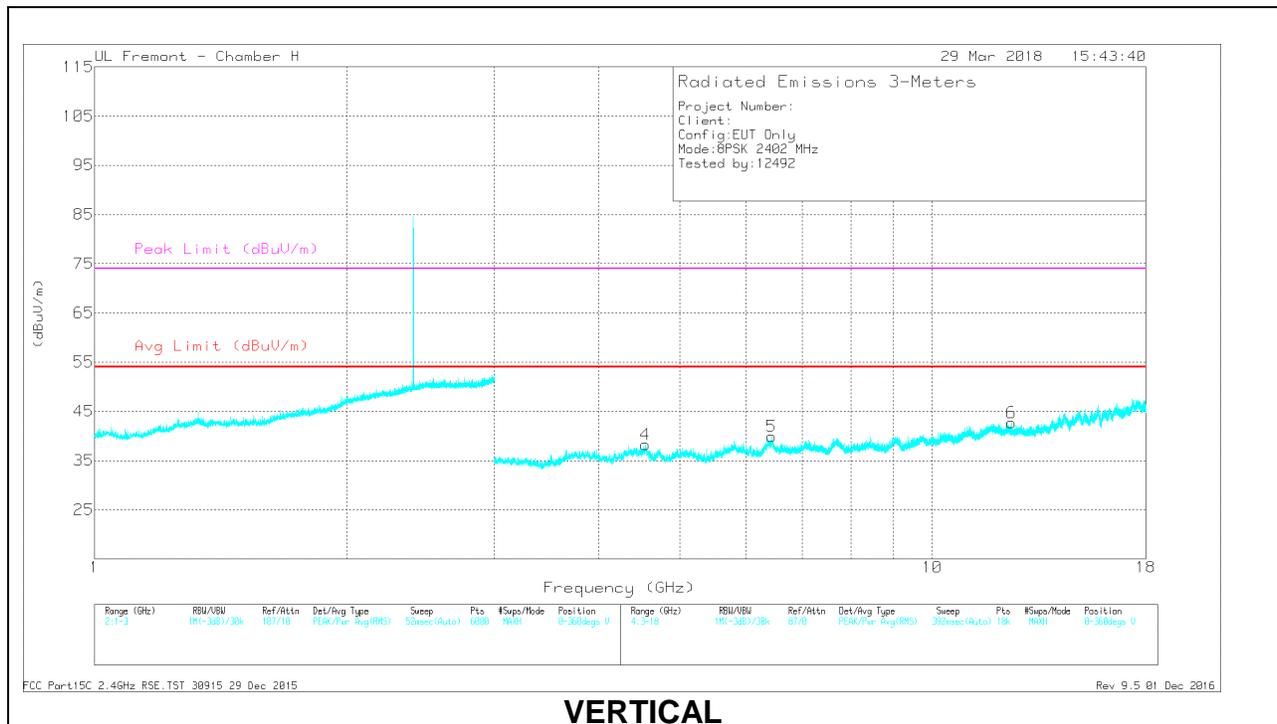
Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

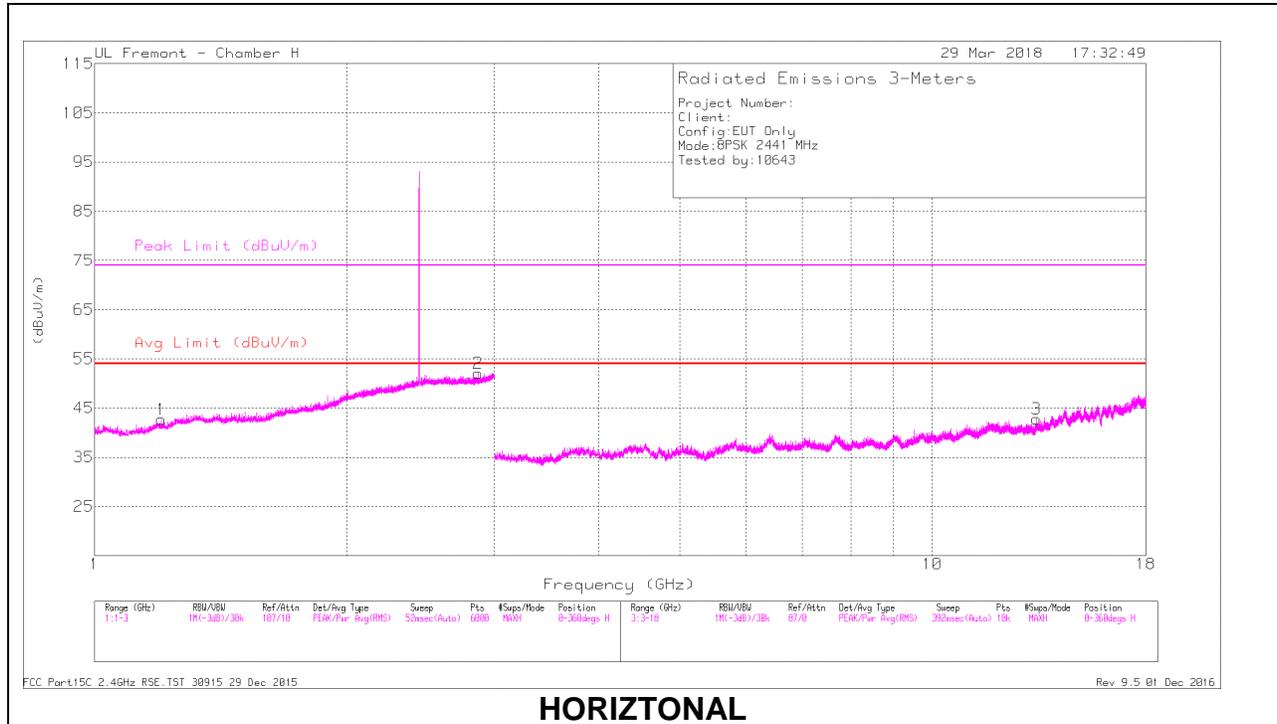
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.81	44.56	PKFH	33.2	-34.9	42.86	-	-	74	-31.14	57	163	H
	* 3.812	32.7	VA1T	33.2	-34.9	31	54	-23	-	-	57	163	H
2	* 7.664	38.99	PKFH	36.2	-29.6	45.59	-	-	74	-28.41	328	283	H
	* 7.664	26.73	VA1T	36.2	-29.6	33.33	54	-20.67	-	-	328	283	H
3	* 11.842	34.78	PKFH	39	-25.8	47.98	-	-	74	-26.02	0	390	H
	* 11.843	22.91	VA1T	39	-25.8	36.11	54	-17.89	-	-	0	390	H
4	* 4.546	44.86	PKFH	34.3	-34.7	44.46	-	-	74	-29.54	265	325	V
	* 4.543	32.43	VA1T	34.3	-34.7	32.03	54	-21.97	-	-	265	325	V
6	* 12.441	35.02	PKFH	38.7	-26.1	47.62	-	-	74	-26.38	185	344	V
	* 12.443	22.97	VA1T	38.7	-26.1	35.57	54	-18.43	-	-	185	344	V
5	6.439	39.74	PKFH	35.5	-30.6	44.64	-	-	-	-	5	307	V

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

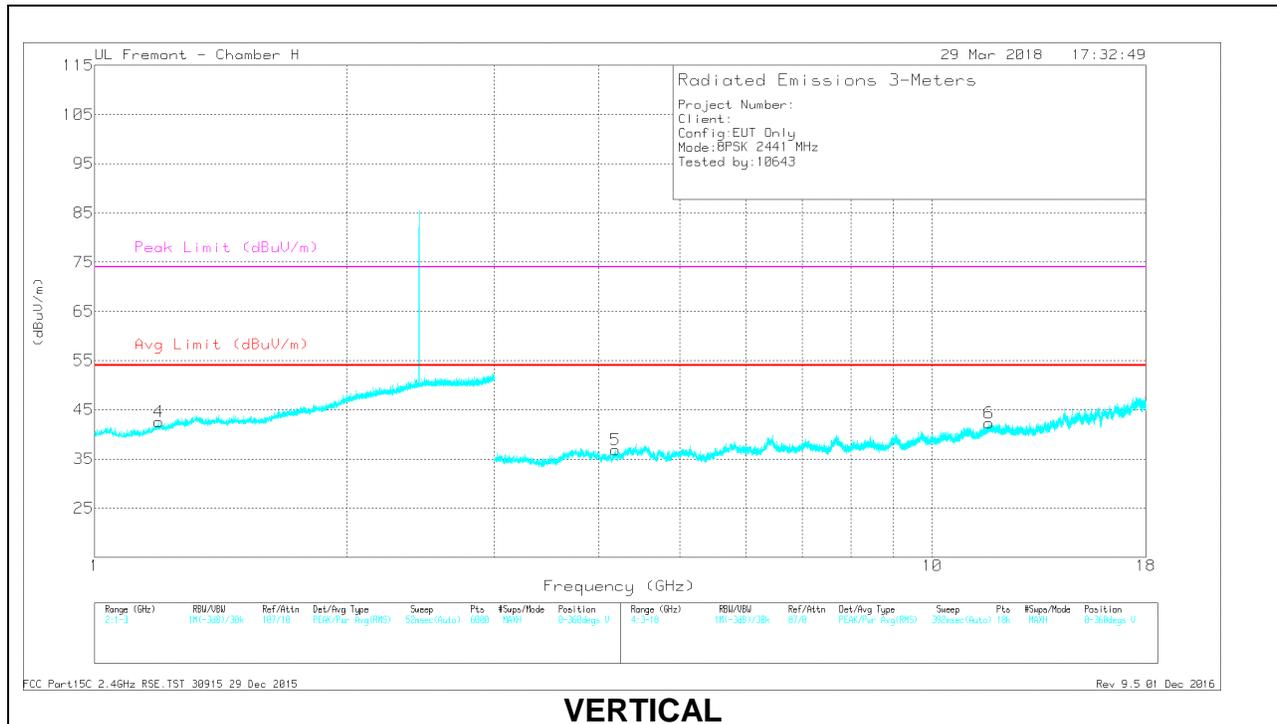
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

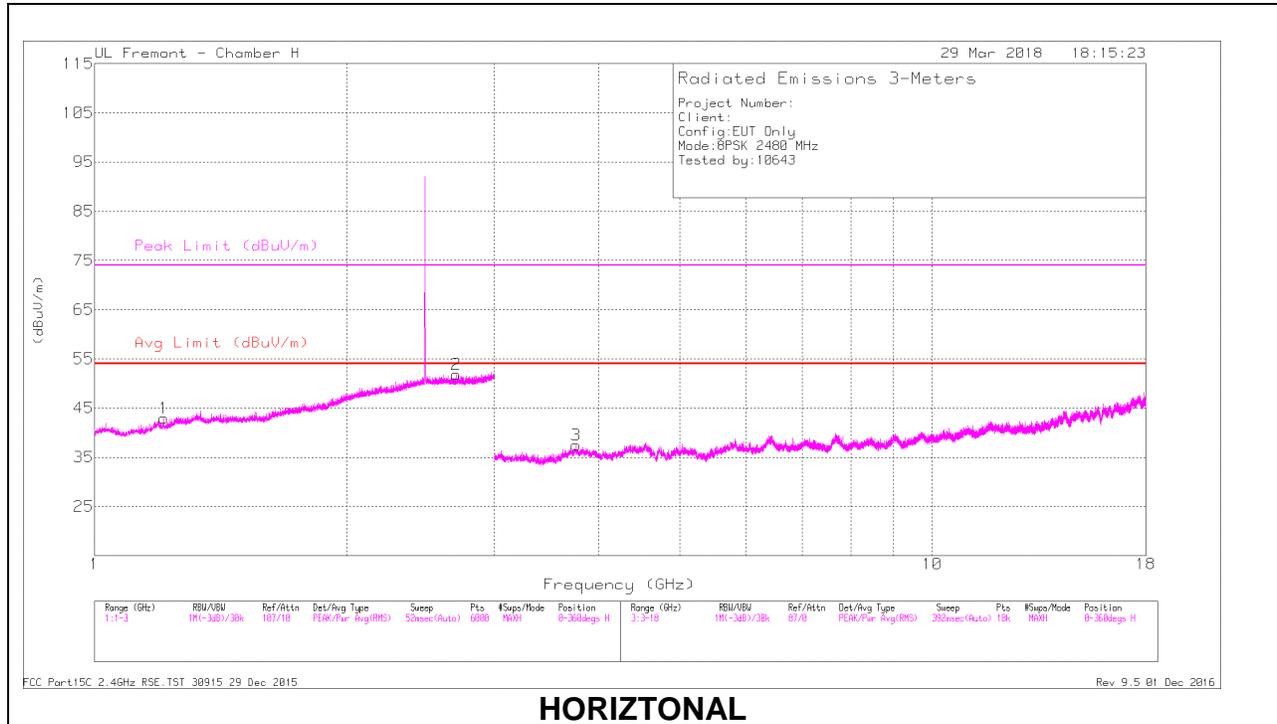
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.201	35.39	PKFH	27.9	-15.9	47.39	-	-	74	-26.61	299	387	H
	* 1.2	23.72	VA1T	27.9	-15.9	35.72	54	-18.28	-	-	299	387	H
2	* 2.872	36.79	PKFH	32.6	-13.6	55.79	-	-	74	-18.21	17	269	H
	* 2.87	25.01	VA1T	32.6	-13.6	44.01	54	-9.99	-	-	17	269	H
3	* 13.328	34.02	PKFH	39.4	-25.4	48.02	-	-	74	-25.98	132	323	H
	* 13.329	22.43	VA1T	39.4	-25.4	36.43	54	-17.57	-	-	132	323	H
4	* 1.194	35.64	PKFH	27.8	-15.9	47.54	-	-	74	-26.46	87	259	V
	* 1.192	23.82	VA1T	27.8	-15.8	35.82	54	-18.18	-	-	87	259	V
5	* 4.188	43.92	PKFH	33.5	-34.6	42.82	-	-	74	-31.18	52	168	V
	* 4.187	31.56	VA1T	33.5	-34.6	30.46	54	-23.54	-	-	52	168	V
6	* 11.701	34.67	PKFH	38.8	-25.9	47.57	-	-	74	-26.43	176	376	V
	* 11.698	23.35	VA1T	38.7	-25.9	36.15	54	-17.85	-	-	176	376	V

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

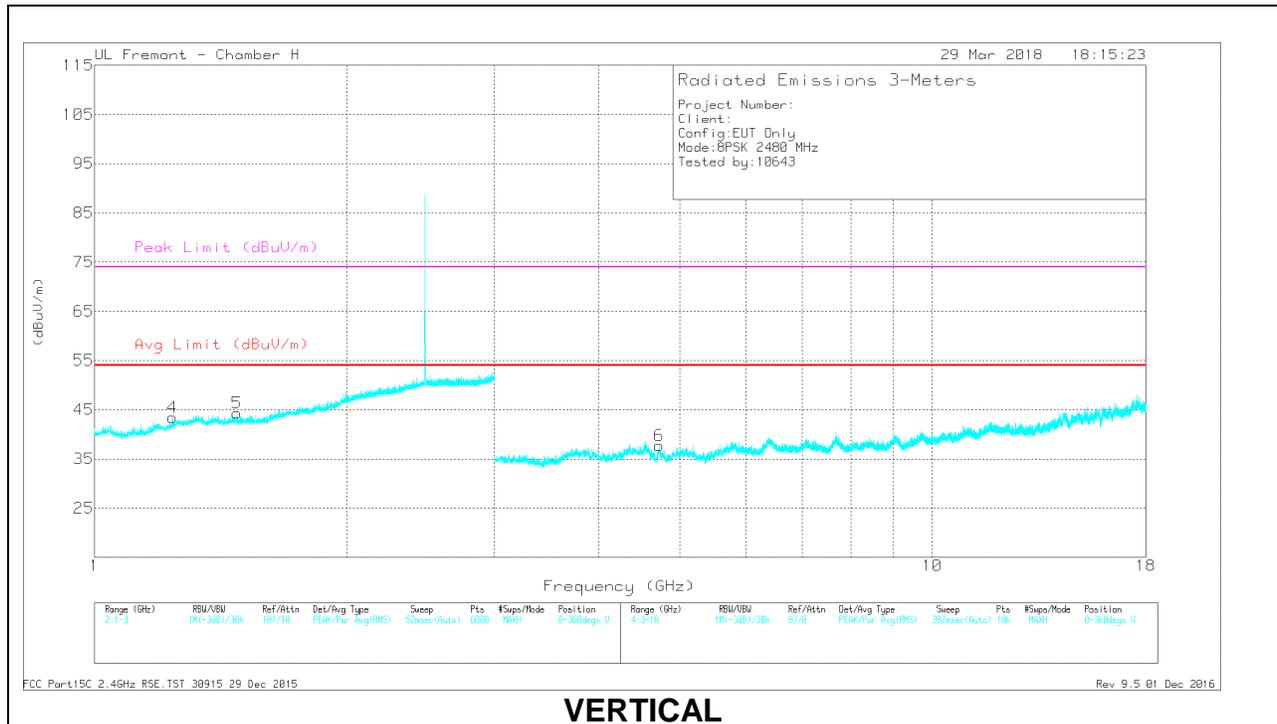
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

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	* 1.211	35.5	PKFH	28	-16	47.5	-	-	74	-26.5	94	216	H
	* 1.208	23.59	VA1T	28	-15.9	35.69	54	-18.31	-	-	94	216	H
2	* 2.702	37.19	PKFH	32.2	-13.7	55.69	-	-	74	-18.31	80	186	H
	* 2.703	25.35	VA1T	32.2	-13.8	43.75	54	-10.25	-	-	80	186	H
3	* 3.76	44.22	PKFH	33.1	-35	42.32	-	-	74	-31.68	241	171	H
	* 3.756	32.84	VA1T	33.1	-35	30.94	54	-23.06	-	-	241	171	H
4	* 1.238	36.64	PKFH	28.4	-16	49.04	-	-	74	-24.96	159	198	V
	* 1.241	23.71	VA1T	28.4	-16	36.11	54	-17.89	-	-	159	198	V
5	* 1.478	36.43	PKFH	28.5	-15.4	49.53	-	-	74	-24.47	267	364	V
	* 1.479	23.87	VA1T	28.5	-15.4	36.97	54	-17.03	-	-	267	364	V
6	* 4.72	41.64	PKFH	34.1	-33.9	41.84	-	-	74	-32.16	84	196	V
	* 4.719	30.24	VA1T	34.1	-33.8	30.54	54	-23.46	-	-	84	196	V

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

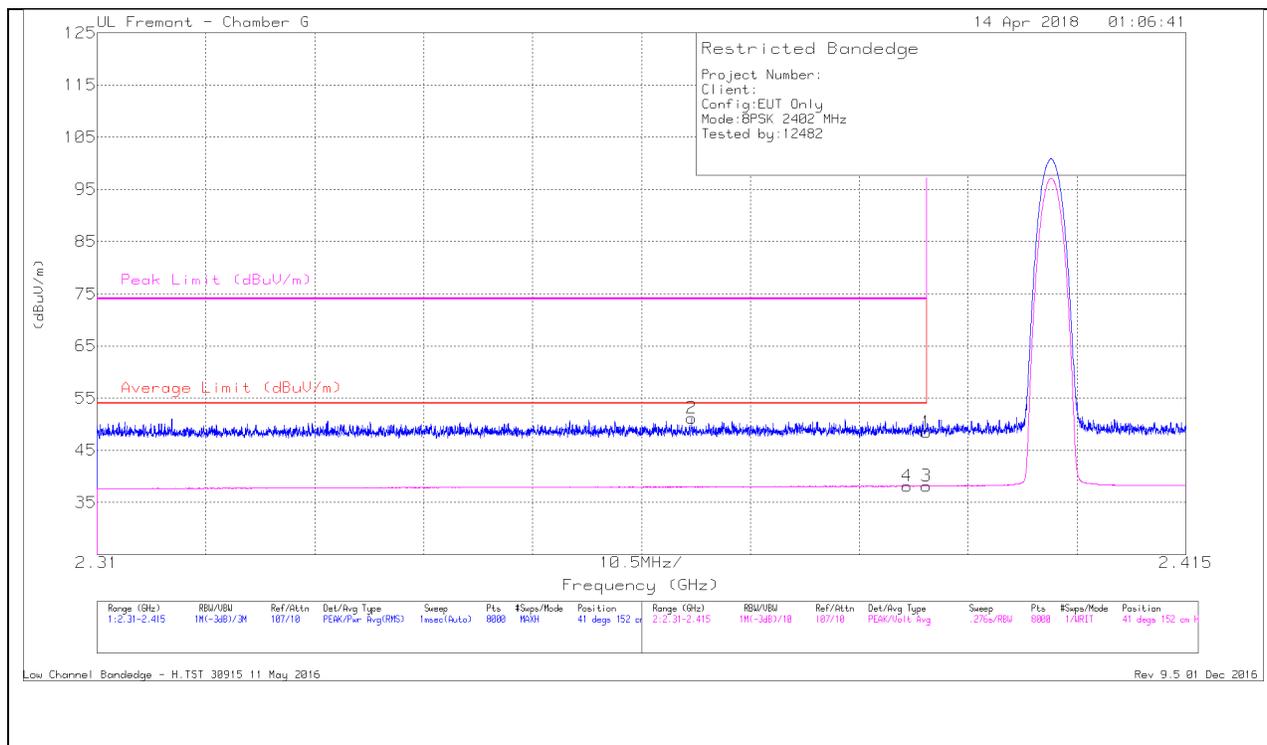
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

Antenna 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.367	43.55	Pk	31.9	-24.3	51.15	-	-	74	-22.85	41	152	H
4	* 2.388	30.45	VA1T	32	-24.3	38.15	54	-15.85	-	-	41	152	H
1	* 2.39	40.77	Pk	32	-24.3	48.47	-	-	74	-25.53	41	152	H
3	* 2.39	30.44	VA1T	32	-24.3	38.14	54	-15.86	-	-	41	152	H

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

Pk - Peak detector

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

Low Channel Bandedge - H.TST 30915 11 May 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl /Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.356	44.27	Pk	31.9	-24.3	51.87	-	-	74	-22.13	207	148	V
4	* 2.389	30.71	VA1T	32	-24.3	38.41	54	-15.59	-	-	207	148	V
1	* 2.39	41.25	Pk	32	-24.3	48.95	-	-	74	-25.05	207	148	V
3	* 2.39	30.69	VA1T	32	-24.3	38.39	54	-15.61	-	-	207	148	V

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

Pk - Peak detector

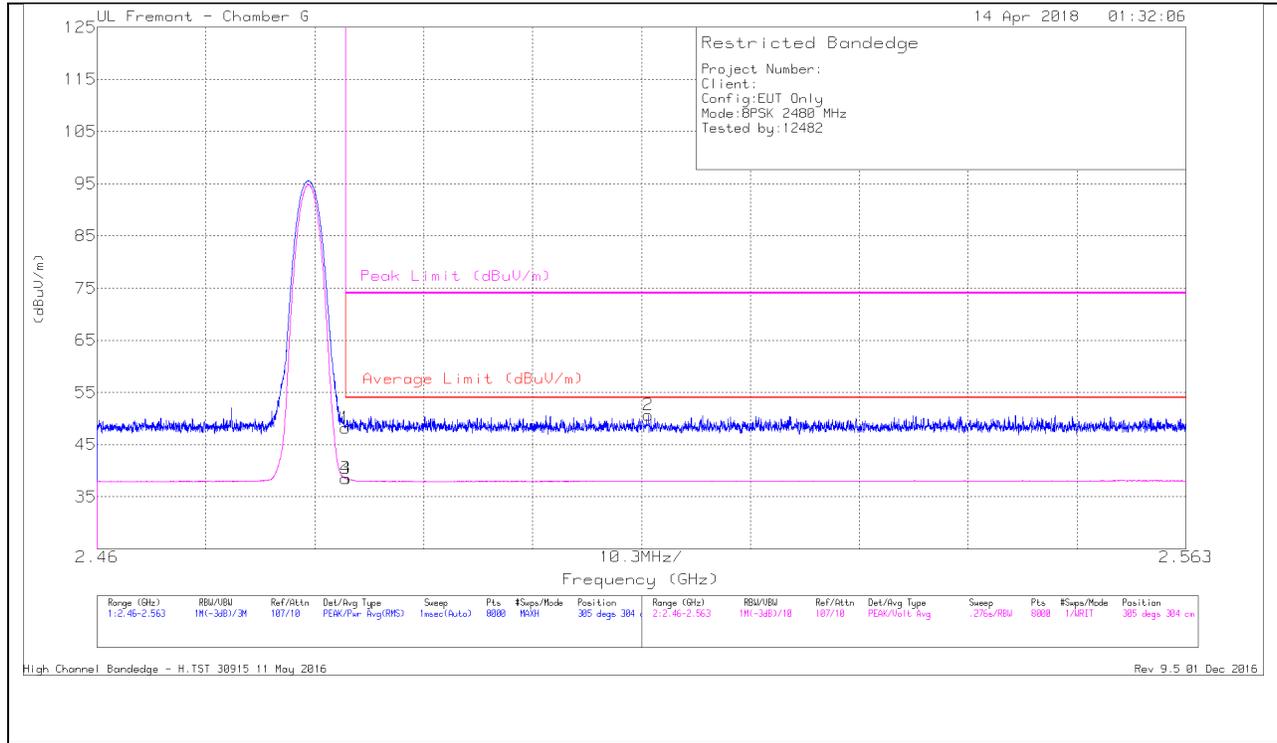
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

Low Channel Bandedge - V.TST 30915 11 May 2016

Rev 9.5 01 Dec 2016

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/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	40.36	Pk	32.1	-24.3	48.16	-	-	74	-25.84	305	304	H
3	* 2.484	30.7	VA1T	32.1	-24.3	38.5	54	-15.5	-	-	305	304	H
4	* 2.484	30.69	VA1T	32.1	-24.3	38.49	54	-15.51	-	-	305	304	H
2	2.512	42.84	Pk	32.1	-24.3	50.64	-	-	74	-23.36	305	304	H

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

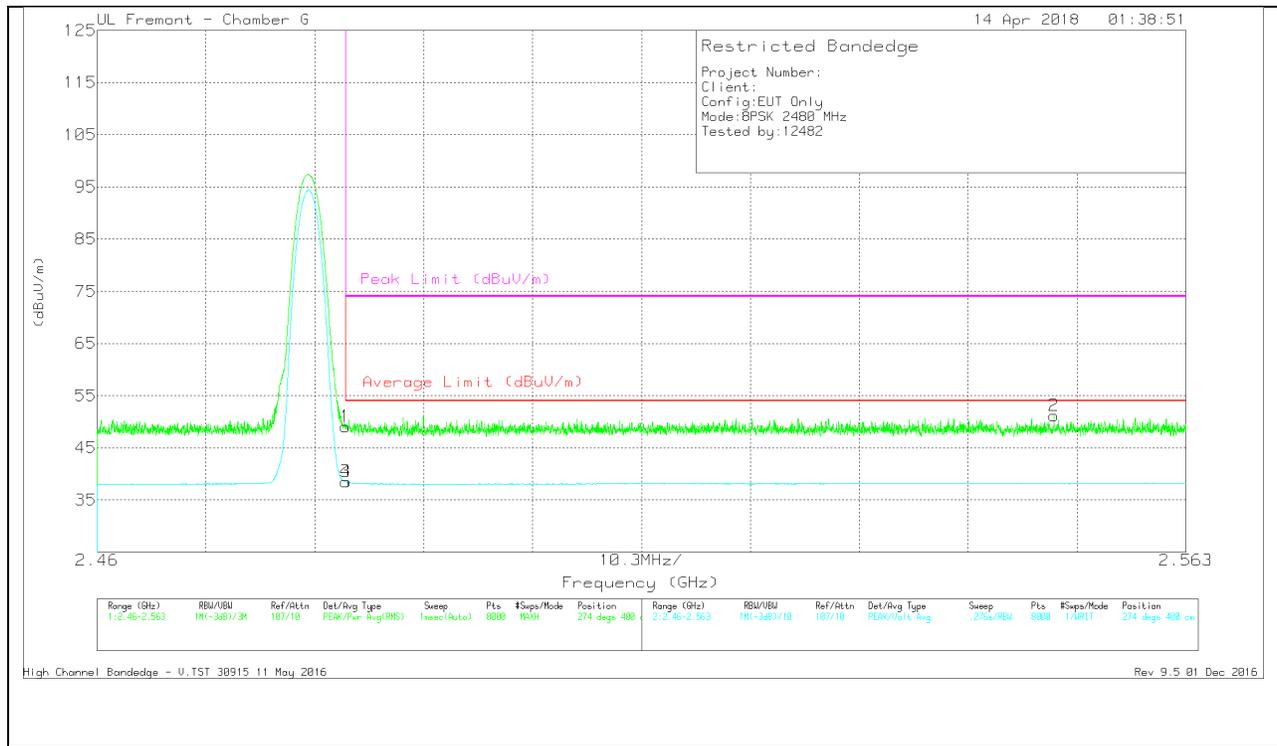
Pk - Peak detector

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

High Channel Bandedge - H.TST 30915 11 May 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.24	Pk	32.1	-24.3	49.04	-	-	74	-24.96	274	400	V
3	* 2.484	30.69	VA1T	32.1	-24.3	38.49	54	-15.51	-	-	274	400	V
4	* 2.484	30.7	VA1T	32.1	-24.3	38.5	54	-15.5	-	-	274	400	V
2	2.551	43.21	Pk	32.2	-24.2	51.21	-	-	74	-22.79	274	400	V

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

Pk - Peak detector

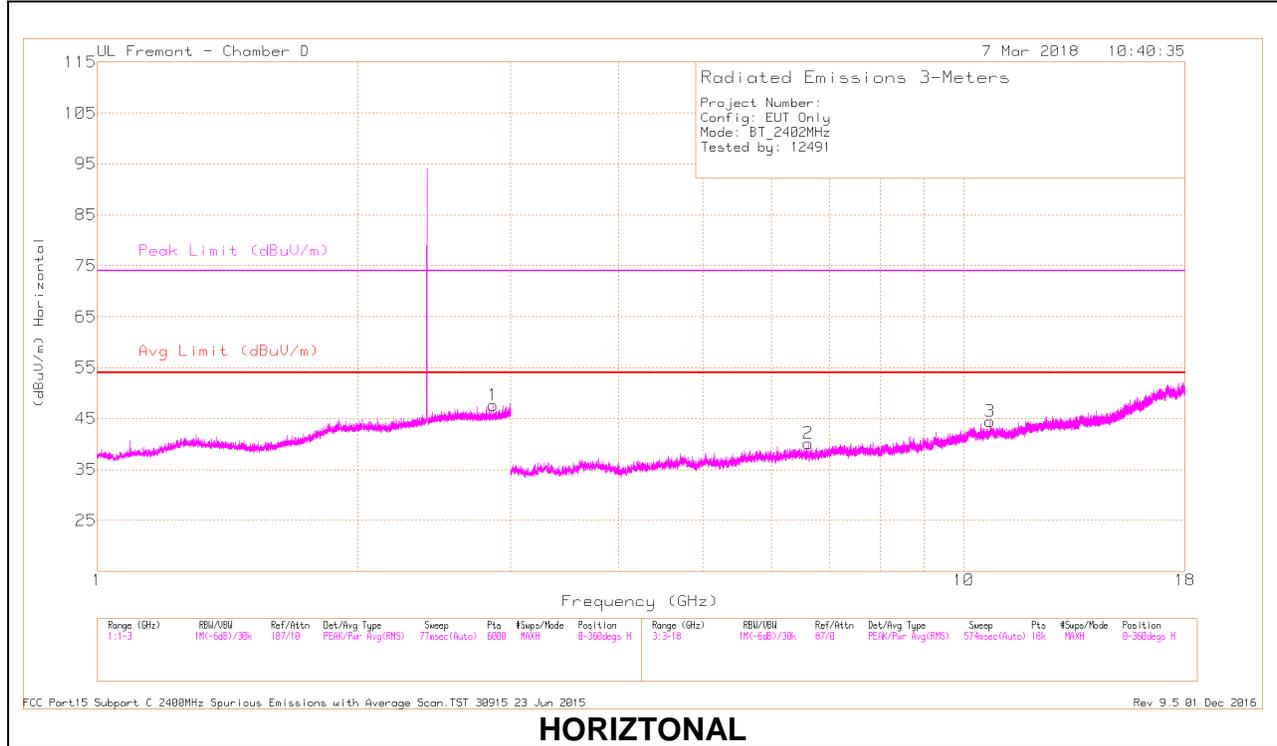
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

High Channel Bandedge - U.TST 30915 11 May 2016

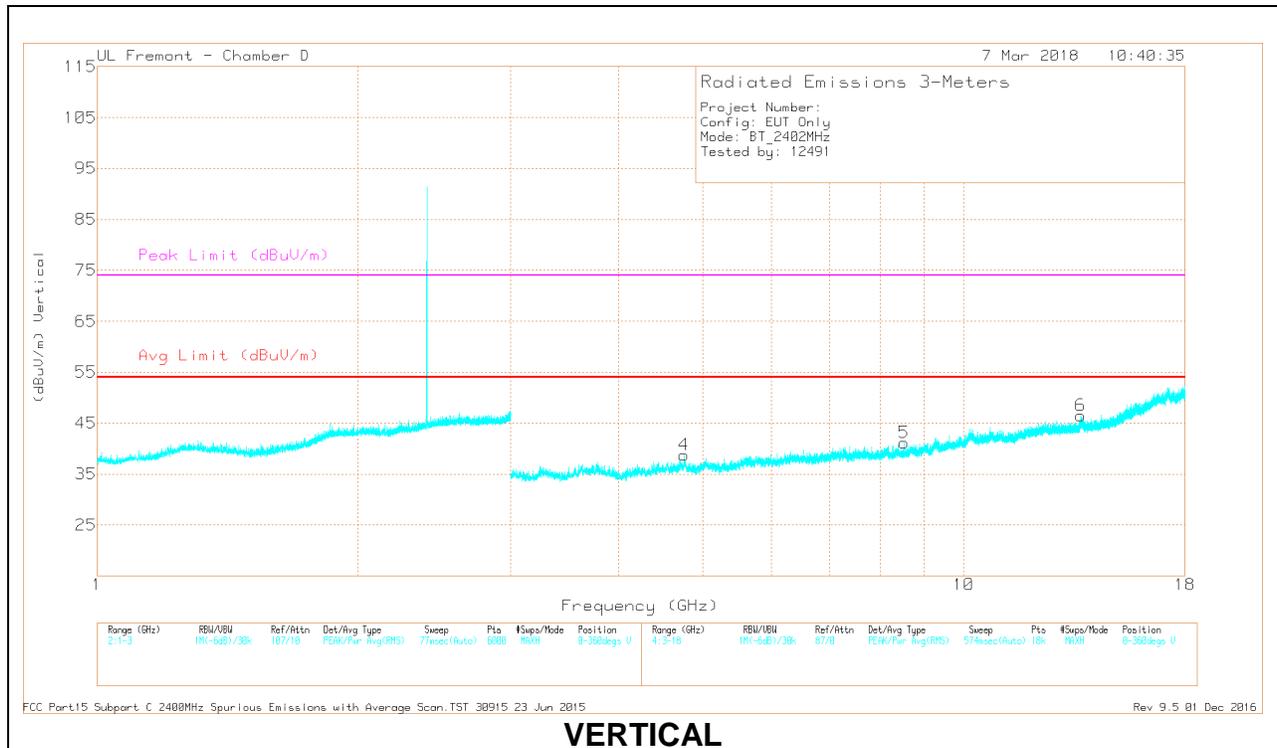
Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

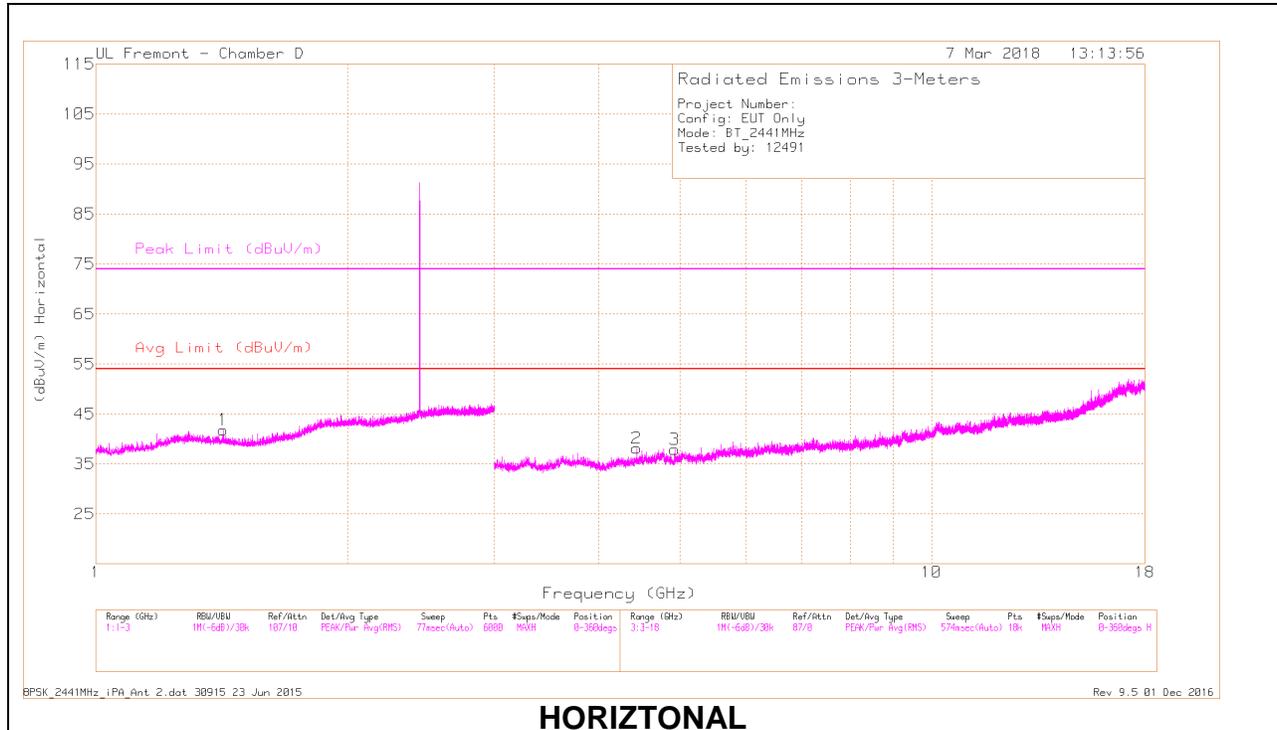
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.863	38.51	PKFH	32.5	-19.9	51.11	-	-	74	-22.89	46	182	H
	* 2.86	26.7	VA1T	32.5	-19.9	39.3	54	-14.7	-	-	46	182	H
3	* 10.728	30.37	PKFH	37.7	-19.9	48.17	-	-	74	-25.83	290	315	H
	* 10.728	18.8	VA1T	37.7	-19.9	36.6	54	-17.4	-	-	290	315	H
4	* 4.755	35.19	PKFH	34.6	-26.3	43.49	-	-	74	-30.51	124	184	V
	* 4.757	23.1	VA1T	34.6	-26.2	31.5	54	-22.5	-	-	124	184	V
2	6.613	34.01	PKFH	36	-25.3	44.71	-	-	74	-29.29	60	228	H
5	8.534	31.83	PKFH	35.9	-22.6	45.13	-	-	74	-28.87	35	376	V
6	13.646	33.14	PKFH	39	-21.3	50.84	-	-	74	-23.16	253	182	V

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

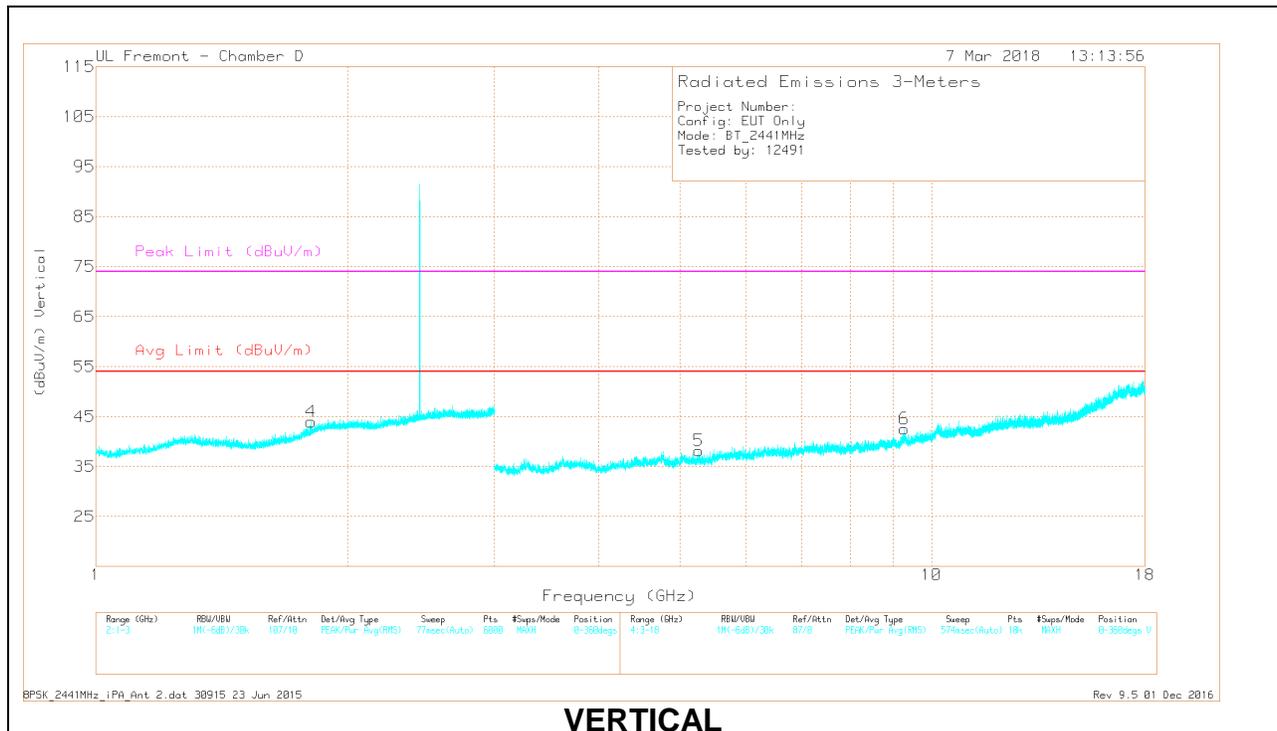
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

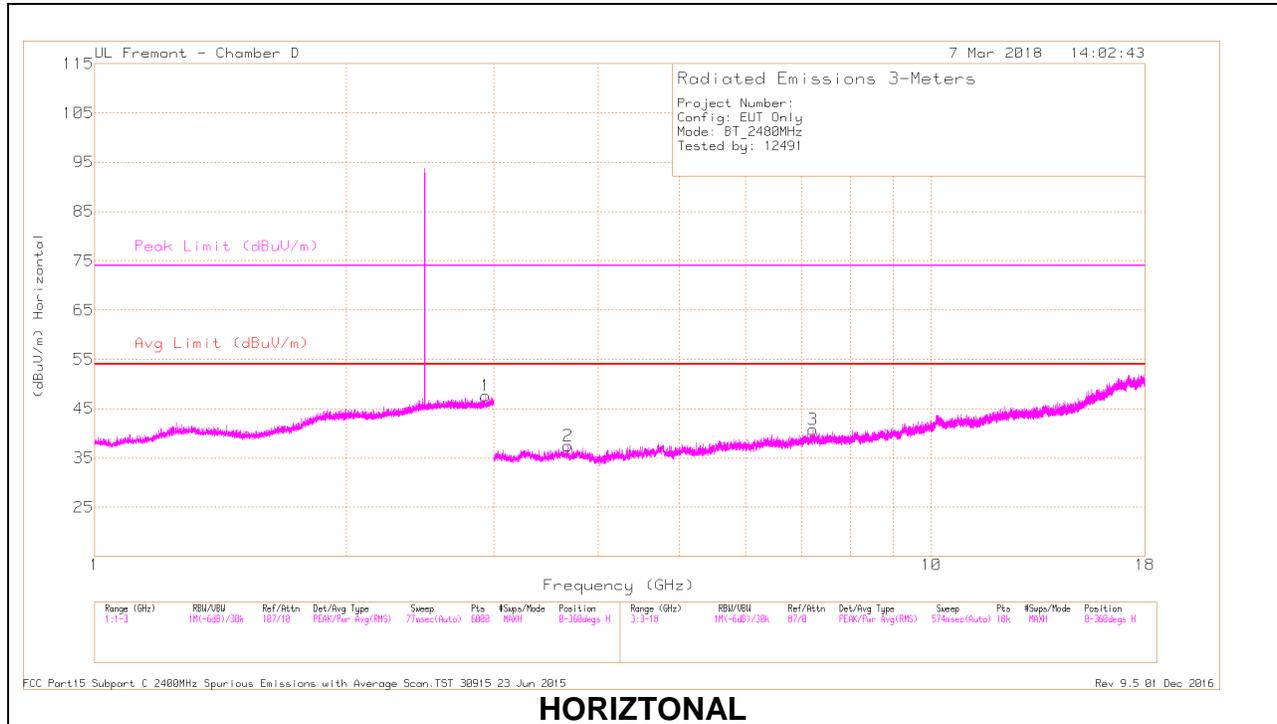
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.42	38.5	PKFH	28.7	-21.8	45.4	-	-	74	-28.6	169	217	H
	* 1.419	27.06	VA1T	28.7	-21.8	33.96	54	-20.04	-	-	169	217	H
3	* 4.927	34.93	PKFH	34.3	-27.7	41.53	-	-	74	-32.47	292	118	H
	* 4.926	23.39	VA1T	34.3	-27.7	29.99	54	-24.01	-	-	292	118	H
4	1.809	39.55	PKFH	30.6	-21.3	48.85	-	-	74	-25.15	119	182	V
2	4.438	34.69	PKFH	34.2	-27	41.89	-	-	74	-32.11	129	216	H
5	5.269	34.32	PKFH	34.8	-26.7	42.42	-	-	74	-31.58	185	142	V
6	9.276	31.27	PKFH	36.4	-20.2	47.47	-	-	74	-26.53	121	157	V

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

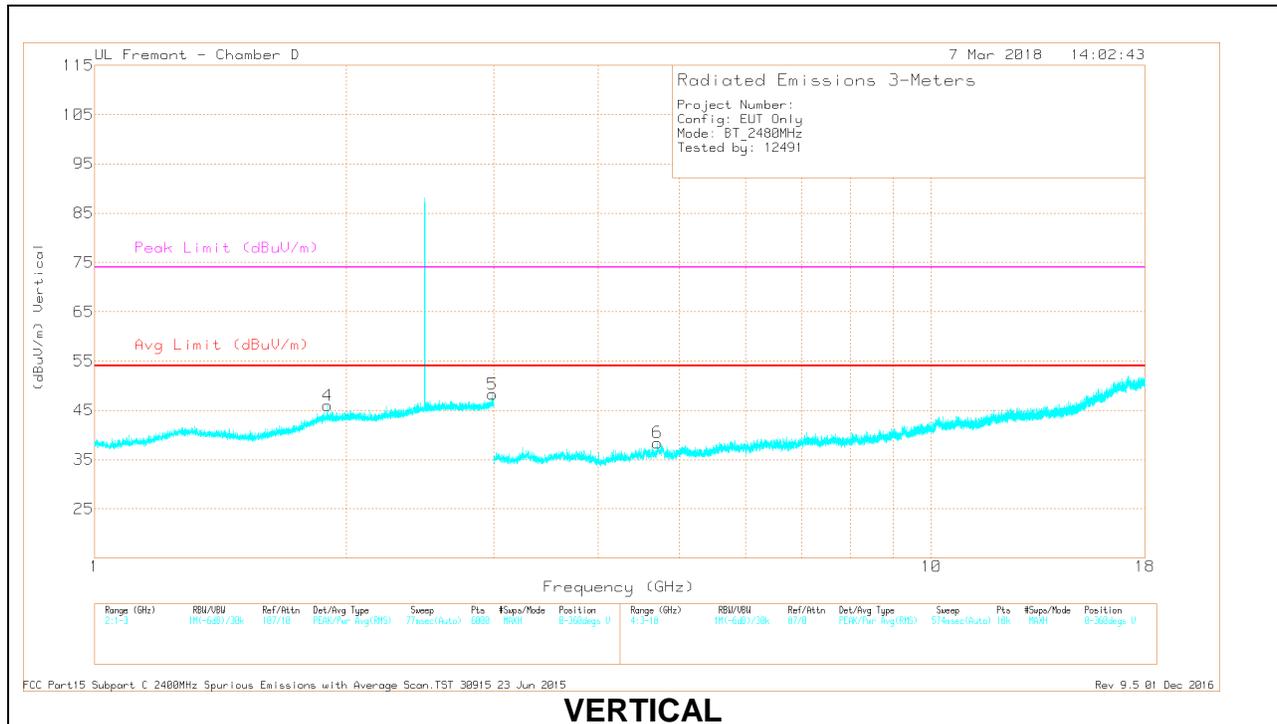
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

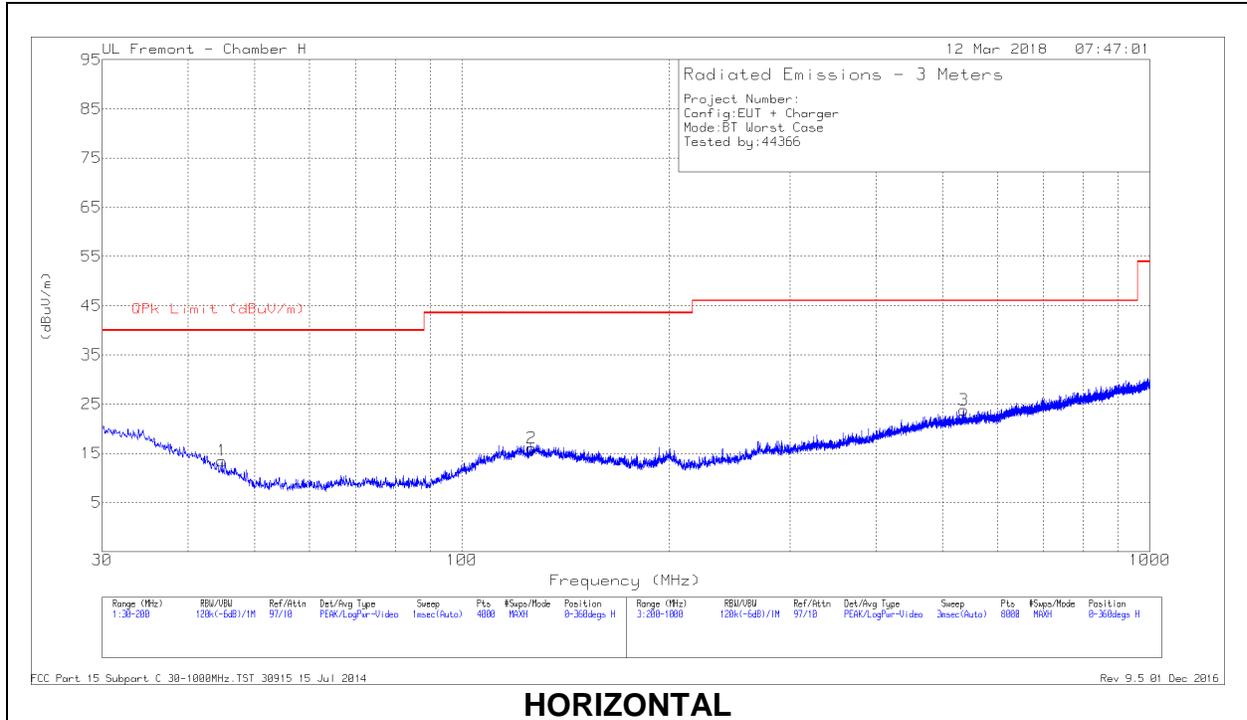
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.678	36.97	PKFH	33.5	-28.9	41.57	-	-	74	-32.43	101	105	H
	* 3.677	24.12	VA1T	33.6	-28.8	28.92	54	-25.08	-	-	101	105	H
6	* 4.707	35.18	PKFH	34.6	-27.1	42.68	-	-	74	-31.32	124	393	V
	* 4.709	23.53	VA1T	34.6	-27.1	31.03	54	-22.97	-	-	124	393	V
4	1.9	39.72	PKFH	31.5	-21.1	50.12	-	-	74	-23.88	74	256	V
1	2.935	39.36	PKFH	32.6	-19.9	52.06	-	-	74	-21.94	360	263	H
5	2.989	39.3	PKFH	32.8	-19.9	52.2	-	-	74	-21.8	144	368	V
3	7.22	33.56	PKFH	36.3	-24.2	45.66	-	-	74	-28.34	104	357	H

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

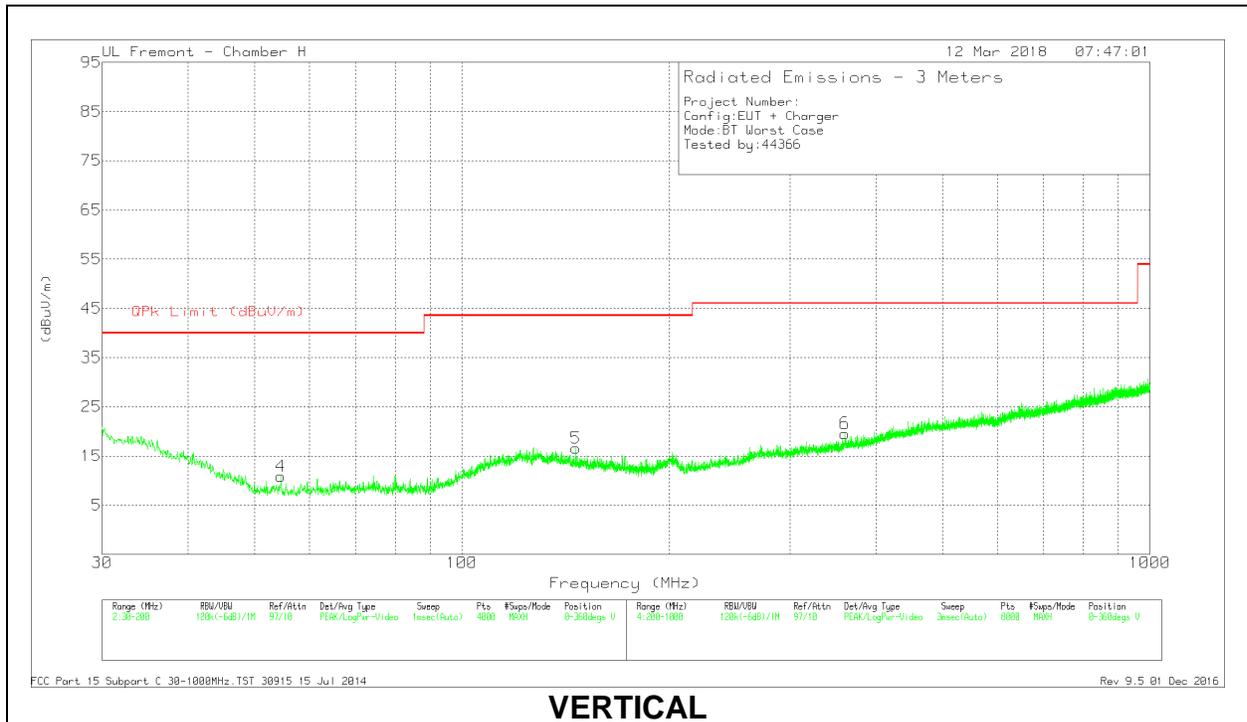
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

9.2. Worst Case Below 1 GHz



HORIZONTAL



VERTICAL

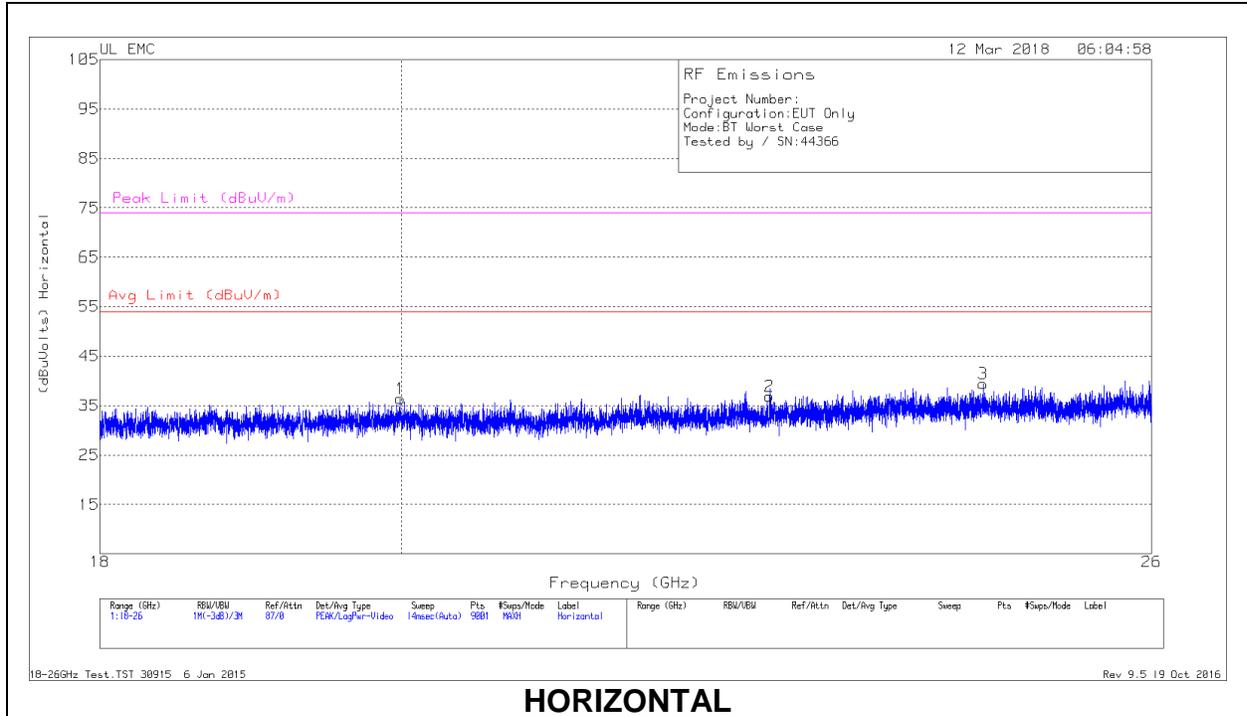
Below 1GHz DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T185 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 126.330	28.64	Pk	17.7	-30.3	16.04	43.52	-27.48	0-360	101	H
1	44.7938	29.48	Pk	15.1	-31.1	13.48	40	-26.52	0-360	101	H
4	54.5288	30.22	Pk	11.6	-31	10.82	40	-29.18	0-360	100	V
5	146.5227	30.16	Pk	16.5	-30.1	16.56	43.52	-26.96	0-360	100	V
6	360.4209	29.77	Pk	18.6	-28.8	19.57	46.02	-26.45	0-360	299	V
3	536.1437	29.91	Pk	22.1	-28.2	23.81	46.02	-22.21	0-360	299	H

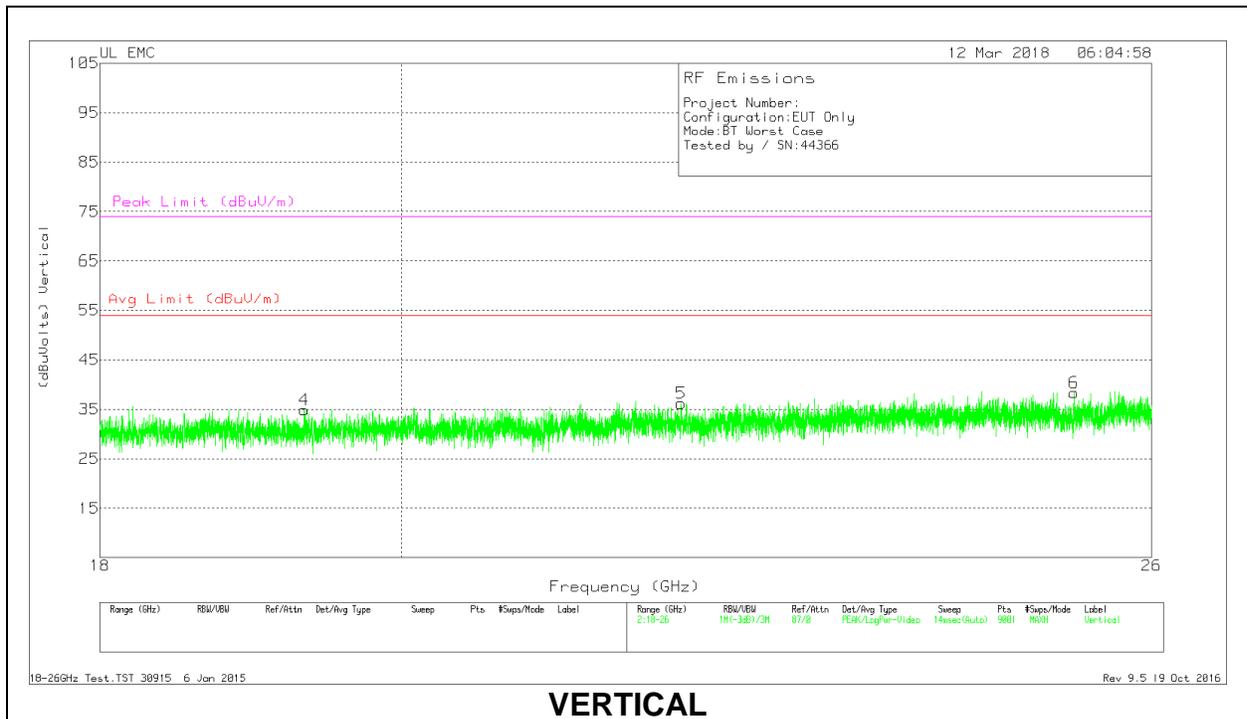
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

9.3. Worst Case 18-26 GHz



HORIZONTAL



VERTICAL

18 – 26GHz DATA

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	19.993	37.96	Pk	33	-25.1	-9.5	36.36	54	-17.64	74	-37.64
2	22.748	38.3	Pk	33.2	-25.1	-9.5	36.9	54	-17.1	74	-37.1
3	24.51	39.42	Pk	34	-24.5	-9.5	39.42	54	-14.58	74	-34.58
4	19.332	36.86	Pk	32.4	-24.9	-9.5	34.86	54	-19.14	74	-39.14
5	22.055	37.89	Pk	33.1	-25.3	-9.5	36.19	54	-17.81	74	-37.81
6	25.305	38.77	Pk	33.6	-24.5	-9.5	38.37	54	-15.63	74	-35.63

Pk - Peak detector
 18-26GHz Test.TST 30915

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.

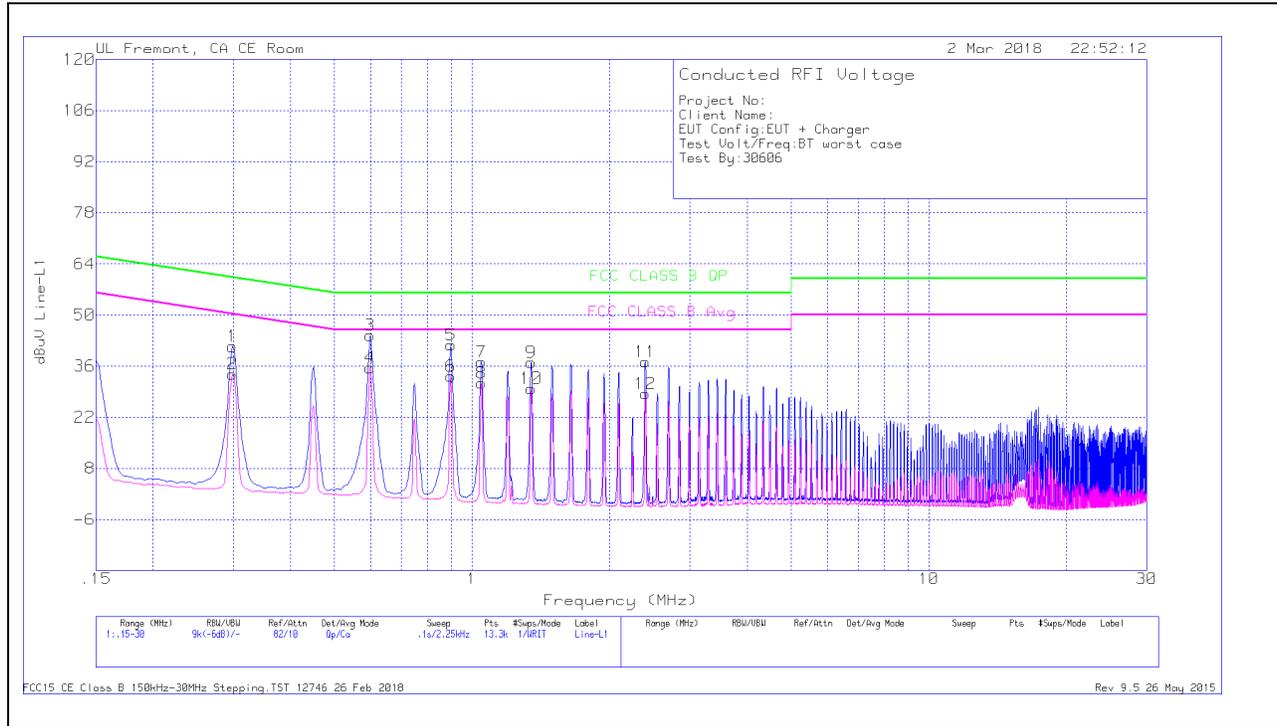
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

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

LINE 1 RESULTS

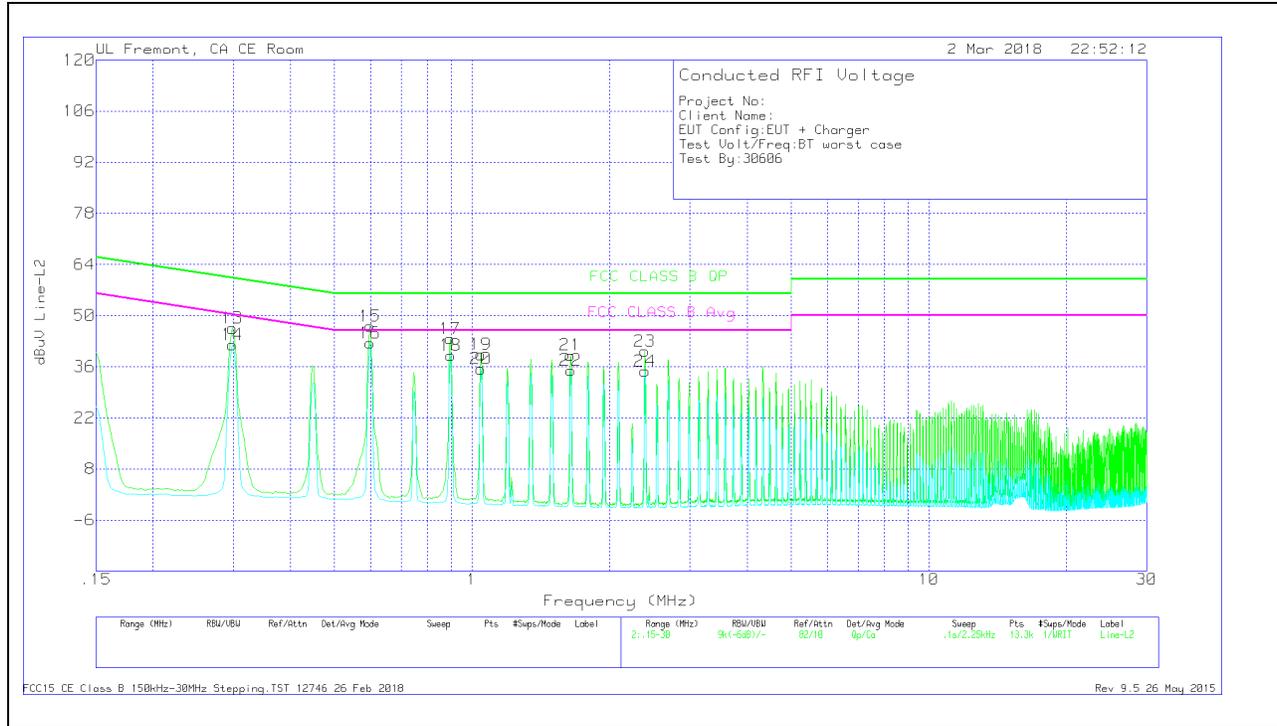


Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Corrected Reading dBuV	FCC CLASS B QP	Margin (dB)	FCC CLASS B Avg	Margin (dB)
1	.2985	41.4	Qp	0	0	41.4	60.28	-18.88	-	-
2	.2985	33.84	Ca	0	0	33.84	-	-	50.28	-16.44
3	.59775	44.46	Qp	0	0	44.46	56	-11.54	-	-
4	.59775	35.57	Ca	0	0	35.57	-	-	46	-10.43
5	.89925	41.77	Qp	0	0	41.77	56	-14.23	-	-
6	.897	33.25	Ca	0	0	33.25	-	-	46	-12.75
7	1.04775	37.09	Qp	0	.1	37.19	56	-18.81	-	-
8	1.04775	31.24	Ca	0	.1	31.34	-	-	46	-14.66
9	1.347	36.9	Qp	0	.1	37	56	-19	-	-
10	1.347	29.75	Ca	0	.1	29.85	-	-	46	-16.15
11	2.3955	37.08	Qp	0	.1	37.18	56	-18.82	-	-
12	2.39325	28.32	Ca	0	.1	28.42	-	-	46	-17.58

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



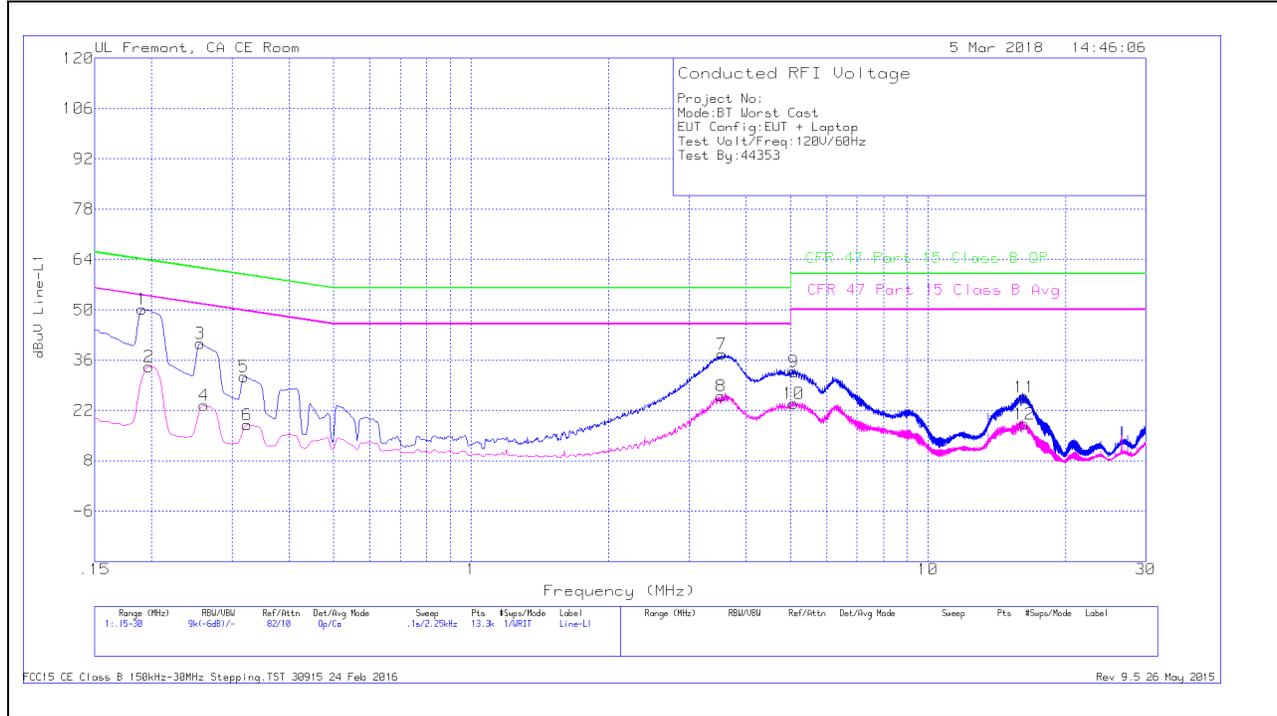
Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Corrected Reading dBuV	FCC CLASS B QP	Margin (dB)	FCC CLASS B Avg	Margin (dB)
13	.2985	46.52	Qp	0	0	46.52	60.28	-13.76	-	-
14	.2985	42.01	Ca	0	0	42.01	-	-	50.28	-8.27
15	.59775	47.11	Qp	0	0	47.11	56	-8.89	-	-
16	.59775	42.48	Ca	0	0	42.48	-	-	46	-3.52
17	.89475	43.64	Qp	0	0	43.64	56	-12.36	-	-
18	.897	39.1	Ca	0	0	39.1	-	-	46	-6.9
19	1.0455	39.25	Qp	0	.1	39.35	56	-16.65	-	-
20	1.0455	35.29	Ca	0	.1	35.39	-	-	46	-10.61
21	1.64175	39.04	Qp	0	.1	39.14	56	-16.86	-	-
22	1.644	34.89	Ca	0	.1	34.99	-	-	46	-11.01
23	2.38875	40.12	Qp	0	.1	40.22	56	-15.78	-	-
24	2.391	34.68	Ca	0	.1	34.78	-	-	46	-11.22

Qp - Quasi-Peak detector

Ca - CISPR average detection

10.2. EUT POWERED BY HOST PC VIA USB CABLE

LINE 1 RESULTS

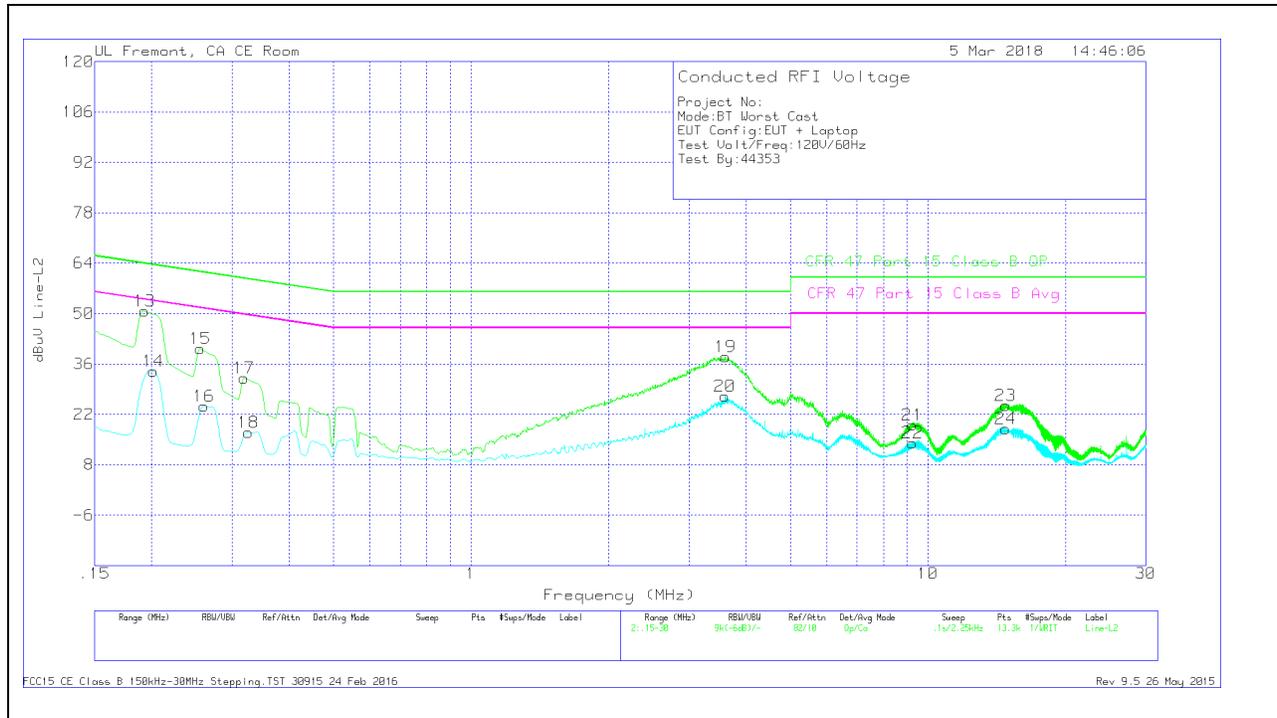


Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
1	.1905	40	Qp	0	0	10.1	50.1	64.01	-13.91	-	-
2	.19725	24.06	Ca	0	0	10.1	34.16	-	-	53.73	-19.57
3	.25575	30.44	Qp	0	0	10.1	40.54	61.57	-21.03	-	-
4	.26025	13.33	Ca	0	0	10.1	23.43	-	-	51.42	-27.99
5	.31875	21.25	Qp	0	0	10.1	31.35	59.74	-28.39	-	-
6	.32325	7.86	Ca	0	0	10.1	17.96	-	-	49.62	-31.66
7	3.5385	27.39	Qp	0	.1	10.1	37.59	56	-18.41	-	-
8	3.53175	15.8	Ca	0	.1	10.1	26	-	-	46	-20
9	5.091	22.64	Qp	0	.1	10.1	32.84	60	-27.16	-	-
10	5.091	13.66	Ca	0	.1	10.1	23.86	-	-	50	-26.14
11	16.278	15.04	Qp	0	.3	10.3	25.64	60	-34.36	-	-
12	16.2735	7.6	Ca	0	.3	10.3	18.2	-	-	50	-31.8

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	.19275	40.61	Qp	0	0	10.1	50.71	63.92	-13.21	-	-
14	.20175	23.83	Ca	0	0	10.1	33.93	-	-	53.54	-19.61
15	.25575	30.16	Qp	0	0	10.1	40.26	61.57	-21.31	-	-
16	.26025	14.1	Ca	0	0	10.1	24.2	-	-	51.42	-27.22
17	.31875	21.95	Qp	0	0	10.1	32.05	59.74	-27.69	-	-
18	.3255	6.8	Ca	0	0	10.1	16.9	-	-	49.57	-32.67
19	3.6015	27.75	Qp	0	.1	10.1	37.95	56	-18.05	-	-
20	3.59925	16.83	Ca	0	.1	10.1	27.03	-	-	46	-18.97
21	9.25688	8.69	Qp	0	.2	10.2	19.09	60	-40.91	-	-
22	9.26475	3.7	Ca	0	.2	10.2	14.1	-	-	50	-35.9
23	14.79075	13.81	Qp	.1	.3	10.2	24.41	60	-35.59	-	-
24	14.79075	7.41	Ca	.1	.3	10.2	18.01	-	-	50	-31.99

Qp - Quasi-Peak detector

Ca - CISPR average detection

END OF REPORT

11. SETUP PHOTOS

Please refer to 12124121-EP1V1 for setup photos