

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.

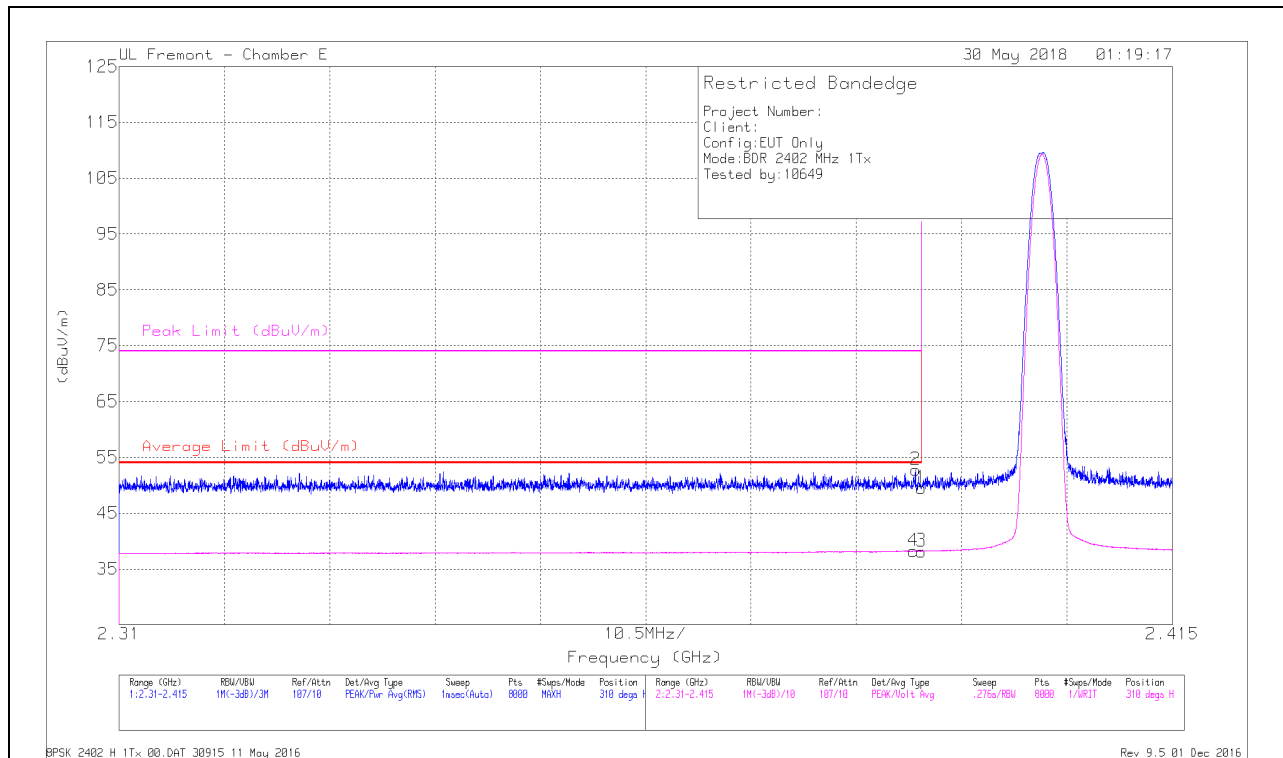
9.1. TRANSMITTER ABOVE 1 GHz

9.1.1. HIGH POWER BASIC DATA RATE GFSK MODULATION

Antenna 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



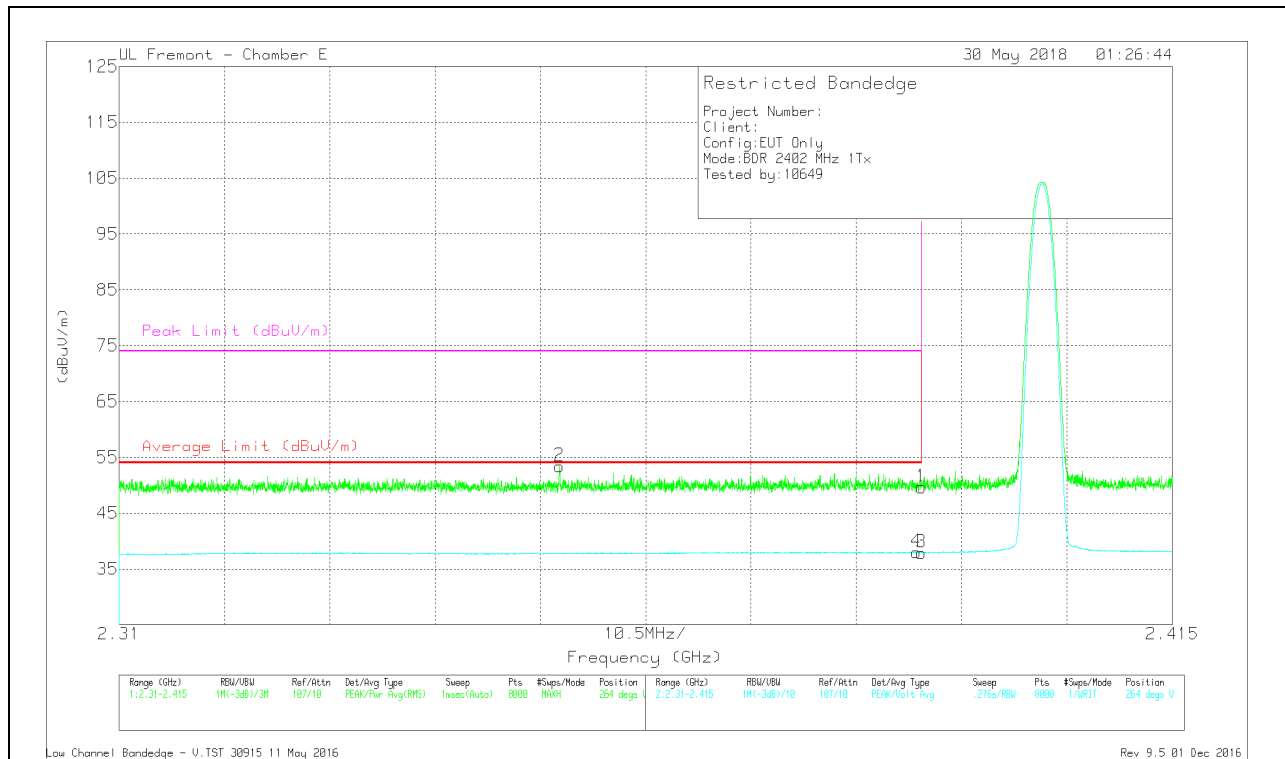
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dBm)	Ampl/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.05	Pk	32	-22.6	49.45	-	-	74	-24.55	310	103	H
2	* 2.389	43.37	Pk	32	-22.6	52.77	-	-	74	-21.23	310	103	H
3	* 2.39	28.74	VA1T	32	-22.6	38.14	54	-15.86	-	-	310	103	H
4	* 2.389	28.93	VA1T	31.9	-22.6	38.23	54	-15.77	-	-	310	103	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

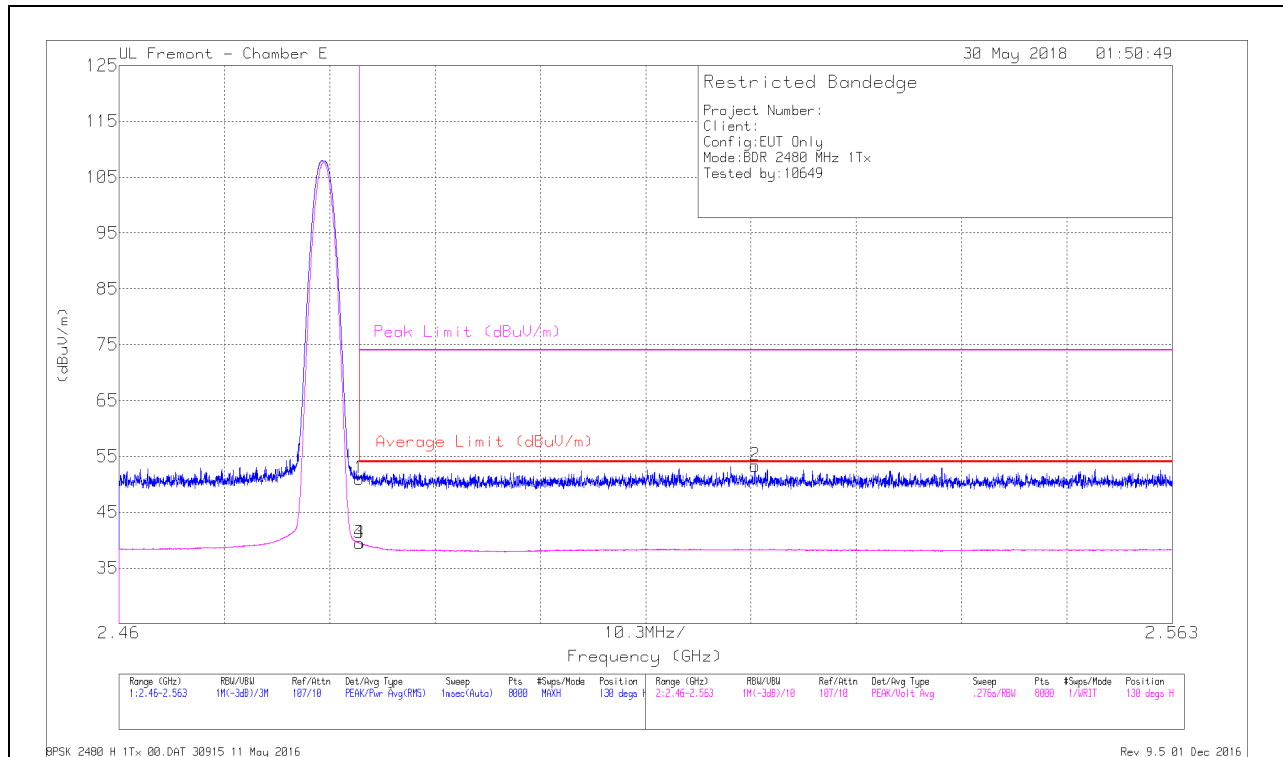


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/CbI/Ftr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.27	Pk	32	-22.6	49.67	-	-	74	-24.33	264	258	V
2	* 2.354	44.23	Pk	31.9	-22.7	53.43	-	-	74	-20.57	264	258	V
3	* 2.39	28.53	VA1T	32	-22.6	37.93	54	-16.07	-	-	264	258	V
4	* 2.389	28.64	VA1T	32	-22.6	38.04	54	-15.96	-	-	264	258	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**

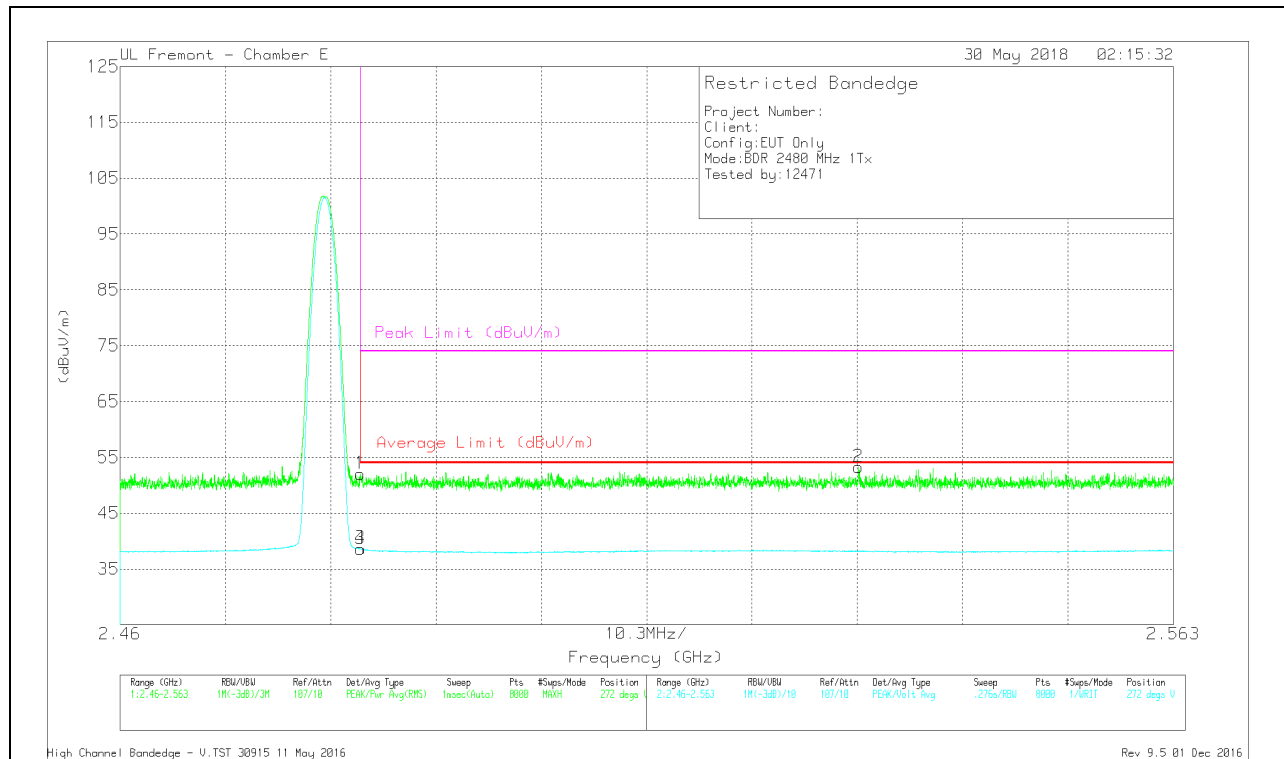
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb/Ftr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.21	Pk	32.1	-22.3	51.01	-	-	74	-22.99	130	119	H
3	* 2.484	29.65	VA1T	32.1	-22.3	39.45	54	-14.55	-	-	130	119	H
4	* 2.484	29.63	VA1T	32.1	-22.3	39.43	54	-14.57	-	-	130	119	H
2	2.522	43.54	Pk	32.1	-22.3	53.34	-	-	74	-20.66	130	119	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

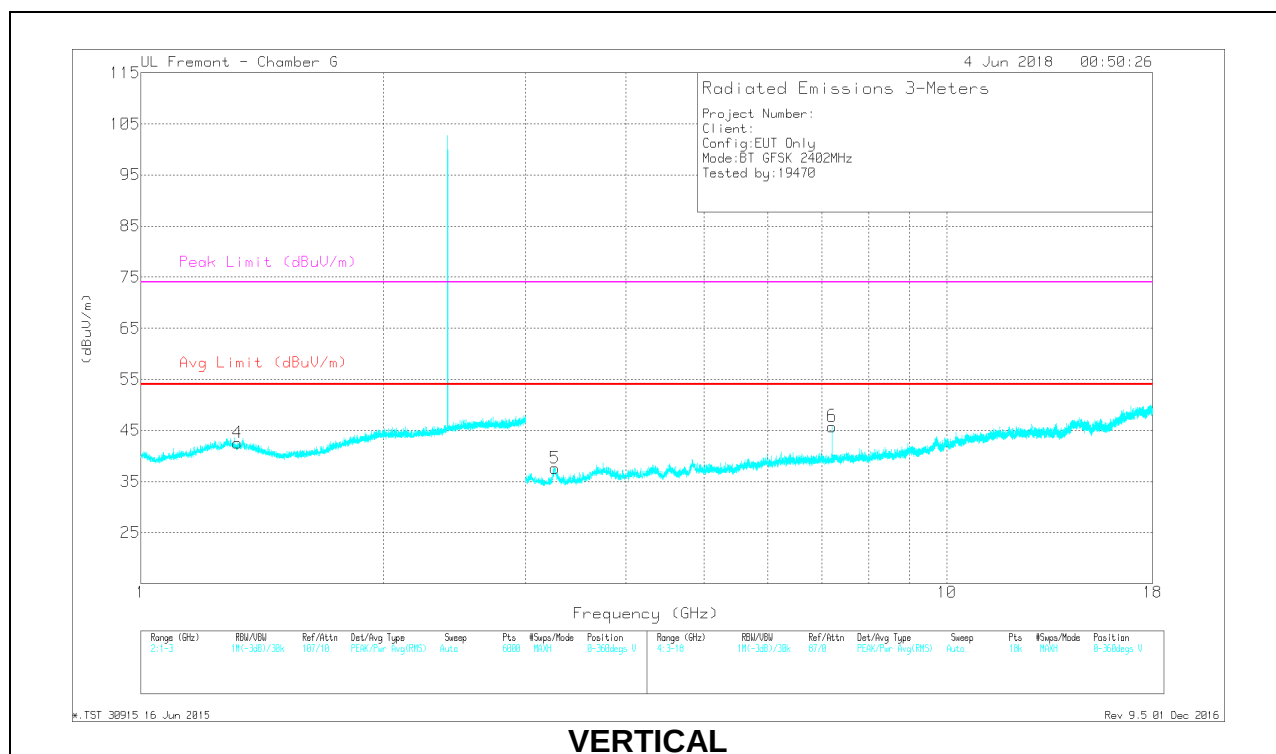
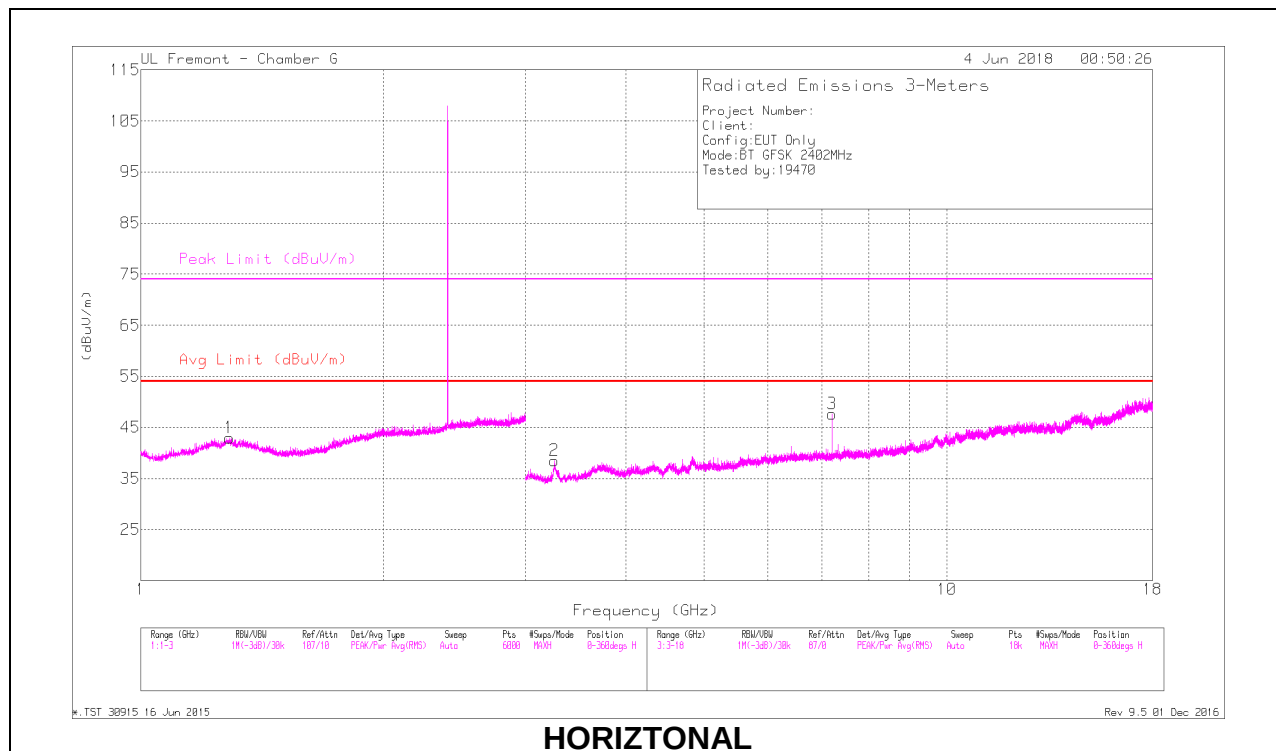


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.21	Pk	32.1	-22.3	52.01	-	-	74	-21.99	272	329	V
3	* 2.484	28.82	VA1T	32.1	-22.3	38.62	54	-15.38	-	-	272	329	V
4	* 2.484	28.8	VA1T	32.1	-22.3	38.6	54	-15.4	-	-	272	329	V
2	2.532	43.44	Pk	32.1	-22.3	53.24	-	-	74	-20.76	272	329	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**

RADIATED EMISSIONS

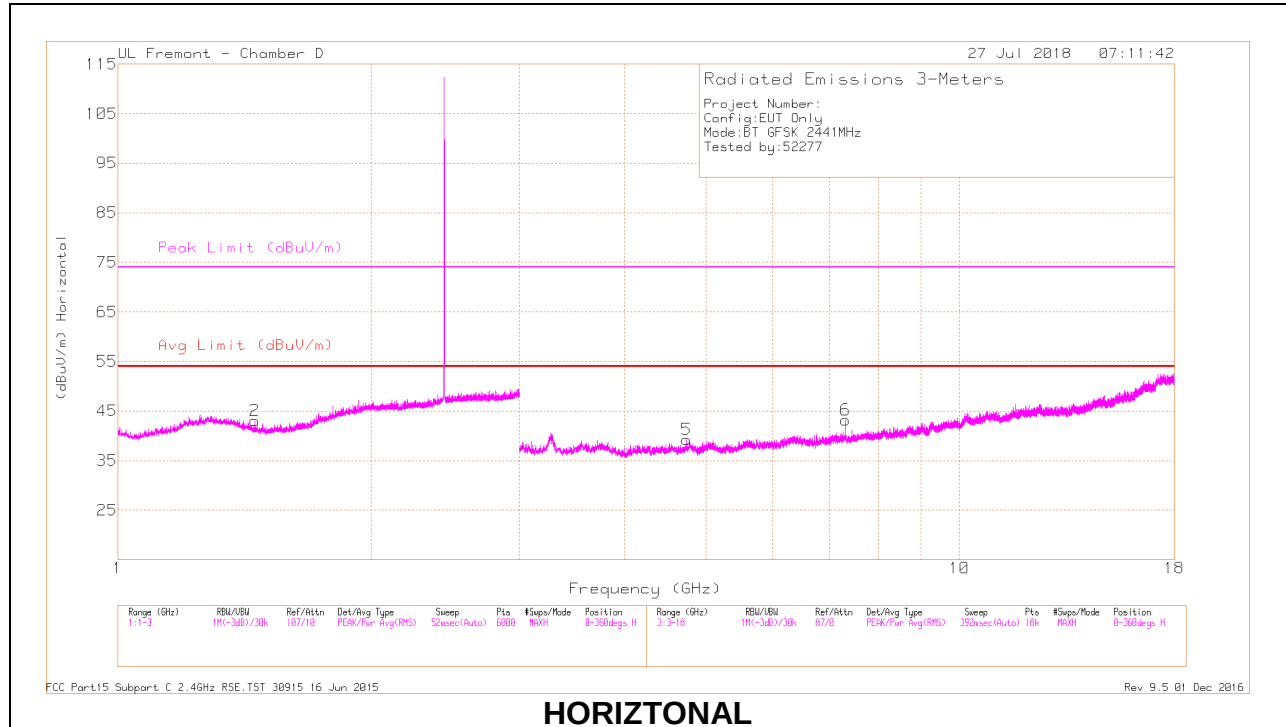
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.288	42.63	PKFH	30.2	-23.9	48.93	-	-	74	-25.07	136	400	H
	* 1.288	30.81	VA1T	30.2	-23.9	37.11	54	-16.89	-	-	136	400	H
4	* 1.318	42.98	PKFH	29.8	-23.8	48.98	-	-	74	-25.02	305	170	V
	* 1.32	30.46	VA1T	29.8	-23.8	36.46	54	-17.54	-	-	305	170	V
2	* 3.264	40.2	PKFH	35.5	-30.6	45.1	-	-	74	-28.9	51	315	H
	* 3.261	28.05	VA1T	35.4	-30.7	32.75	54	-21.25	-	-	51	315	H
5	* 3.264	39.99	PKFH	35.5	-30.6	44.89	-	-	74	-29.11	214	217	V
	* 3.26	28.57	VA1T	35.3	-30.7	33.17	54	-20.83	-	-	214	217	V
3	7.206	42.52	PKFH	35.6	-27.8	50.32	-	-	-	-	58	182	H
6	7.206	41	PKFH	35.6	-27.8	48.8	-	-	-	-	347	119	V

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

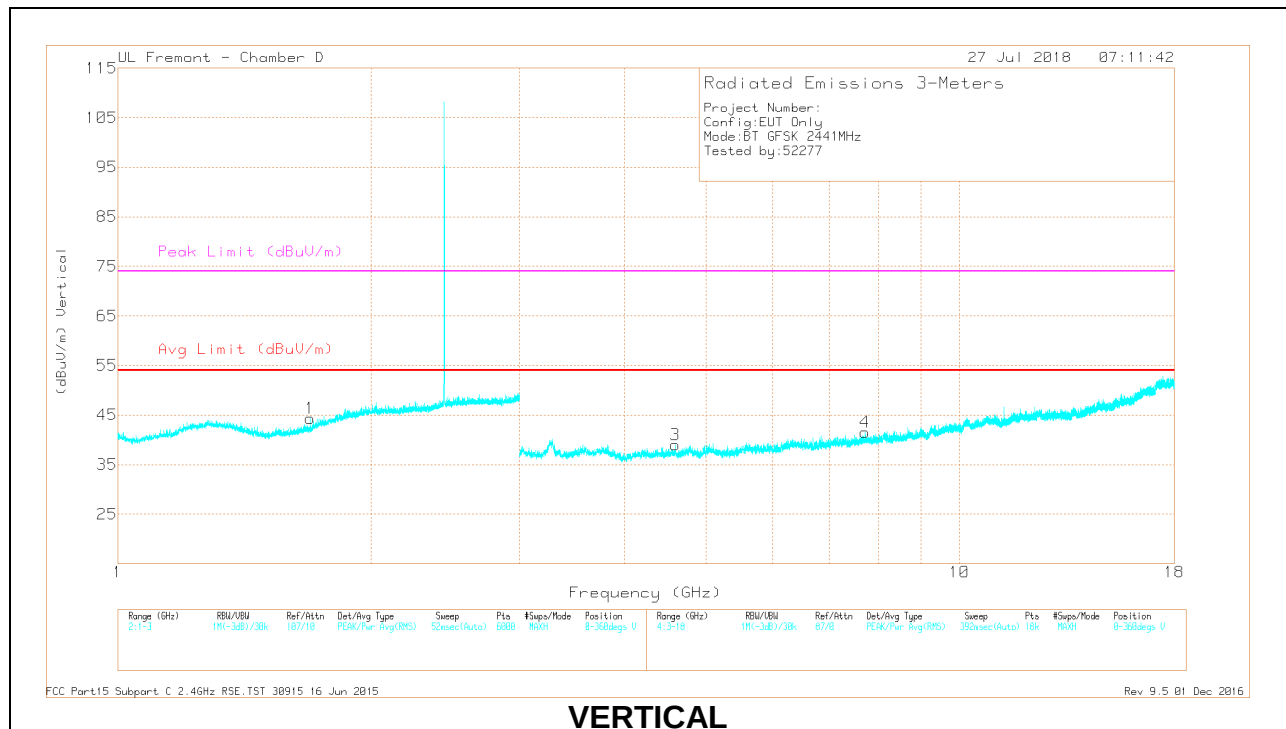
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

MID CHANNEL RESULTS



HORIZTONTAL



VERTICAL

RADIATED EMISSIONS

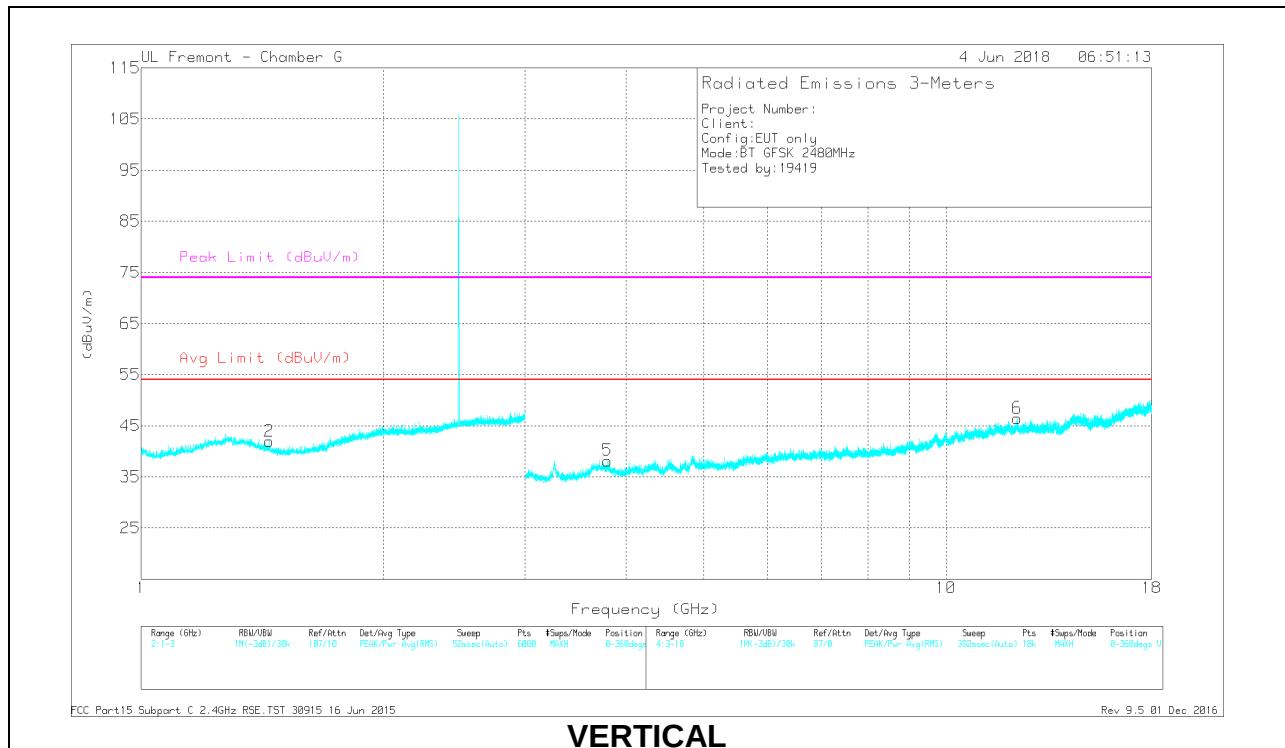
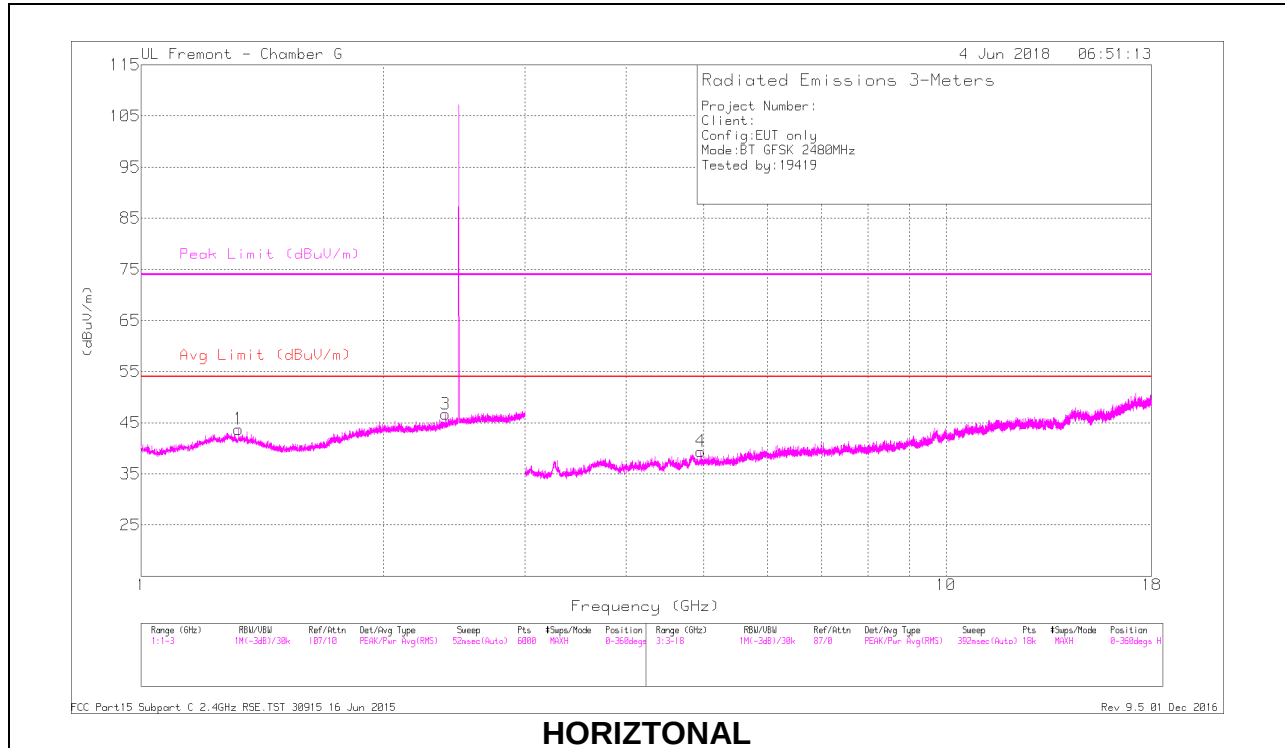
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.454	41.99	PKFH	28.3	-21.7	48.59	-	-	74	-25.41	251	247	H
	* 1.452	29.64	VA1T	28.3	-21.7	36.24	54	-17.76	-	-	251	247	H
1	* 1.693	41.71	PKFH	28.6	-21.4	48.91	-	-	74	-25.09	25	264	V
	* 1.692	29.65	VA1T	28.6	-21.4	36.85	54	-17.15	-	-	25	264	V
5	* 4.74	36.55	PKFH	34.2	-26.3	44.45	-	-	74	-29.55	141	339	H
	* 4.741	24.86	VA1T	34.2	-26.3	32.76	54	-21.24	-	-	141	339	H
6	* 7.323	38.8	PKFH	35.8	-24.6	50	-	-	74	-24	110	220	H
	* 7.323	29.14	VA1T	35.8	-24.6	40.34	54	-13.66	-	-	110	220	H
3	* 4.596	36.97	PKFH	34.4	-27.8	43.57	-	-	74	-30.43	89	249	V
	* 4.597	25.51	VA1T	34.4	-27.8	32.11	54	-21.89	-	-	89	249	V
4	* 7.723	35.18	PKFH	35.9	-24.1	46.98	-	-	74	-27.02	219	283	V
	* 7.722	23.29	VA1T	35.9	-24.1	35.09	54	-18.91	-	-	219	283	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



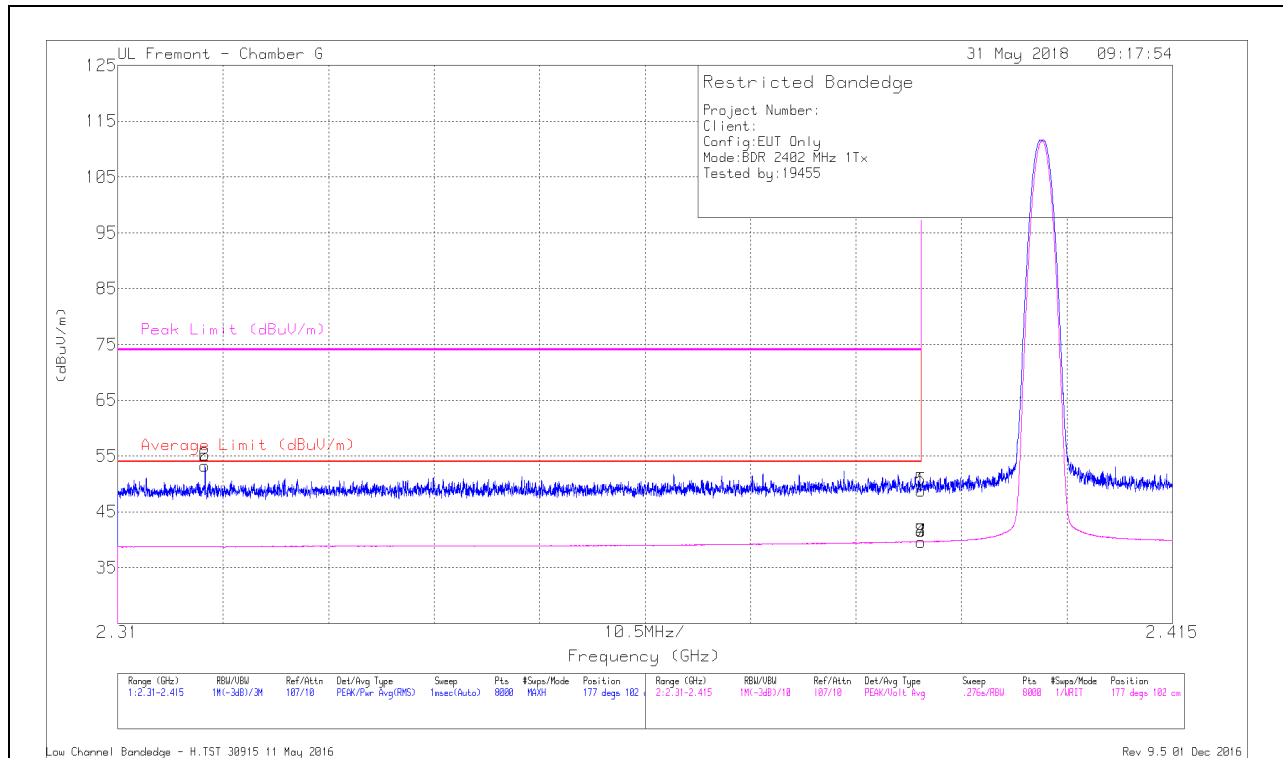
RADIATED EMISSIONS

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.335	43.17	PKFH	29.8	-23.7	49.27	-	-	74	-24.73	233	145	H
	* 1.332	30.55	VA1T	29.7	-23.7	36.55	54	-17.45	-	-	233	145	H
3	* 2.389	41.44	PKFH	32.1	-22.3	51.24	-	-	74	-22.76	158	314	H
	* 2.388	29.67	VA1T	32.2	-22.2	39.67	54	-14.33	-	-	158	314	H
2	* 1.443	41.66	PKFH	28.4	-23.4	46.66	-	-	74	-27.34	334	311	V
	* 1.444	30.24	VA1T	28.4	-23.4	35.24	54	-18.76	-	-	334	311	V
4	* 4.953	39.64	PKFH	34.2	-29.7	44.14	-	-	74	-29.86	49	368	H
	* 4.942	27.72	VA1T	34.1	-29.7	32.12	54	-21.88	-	-	49	368	H
5	* 3.797	40.14	PKFH	34	-29.9	44.24	-	-	74	-29.76	37	158	V
	* 3.811	28.11	VA1T	34	-30.2	31.91	54	-22.09	-	-	37	158	V
6	* 12.273	35.44	PKFH	39.1	-22.7	51.84	-	-	74	-22.16	347	358	V
	* 12.27	23.19	VA1T	39.1	-22.7	39.59	54	-14.41	-	-	347	358	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 5**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

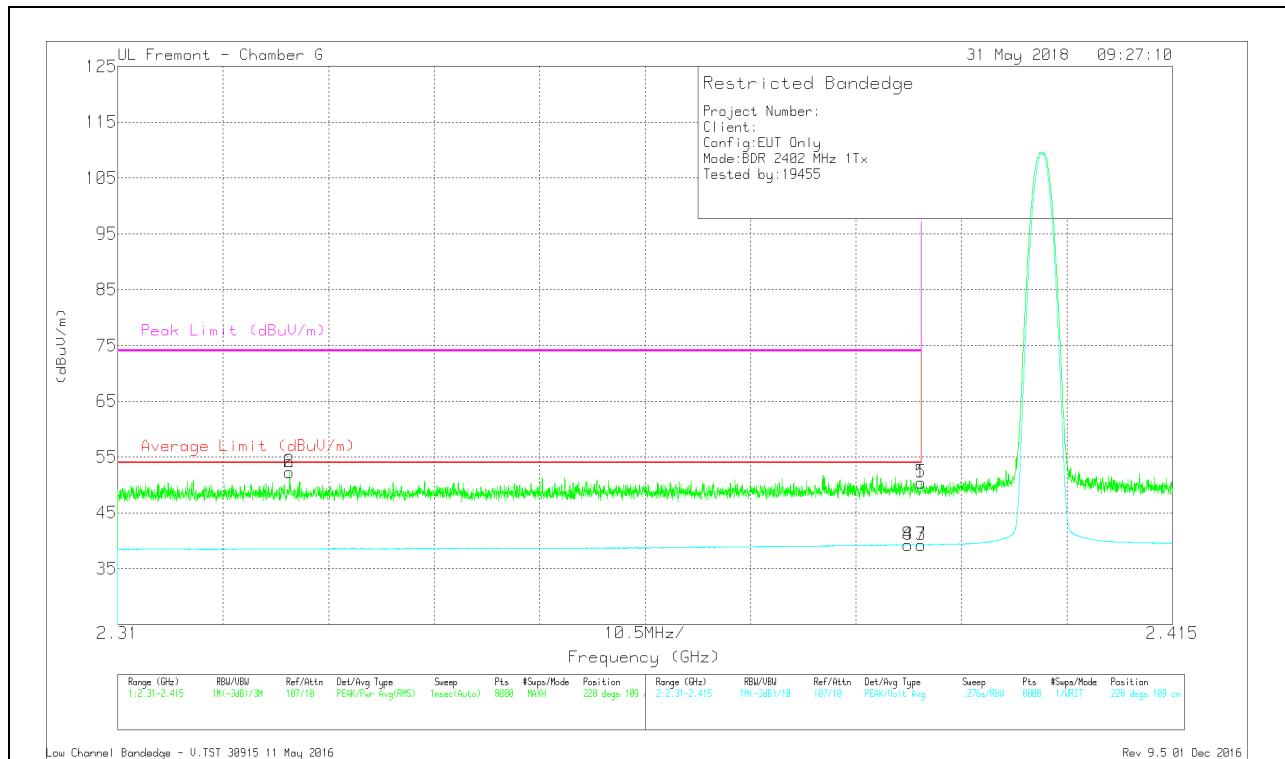
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.04	Pk	32.1	-22.3	48.84	-	-	74	-25.16	177	102	H
2	* 2.319	43.94	Pk	31.7	-22.4	53.24	-	-	74	-20.76	177	102	H
3	* 2.39	29.83	VA1T	32.1	-22.3	39.63	54	-14.37	-	-	177	102	H
4	* 2.39	29.84	VA1T	32.1	-22.3	39.64	54	-14.36	-	-	177	102	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

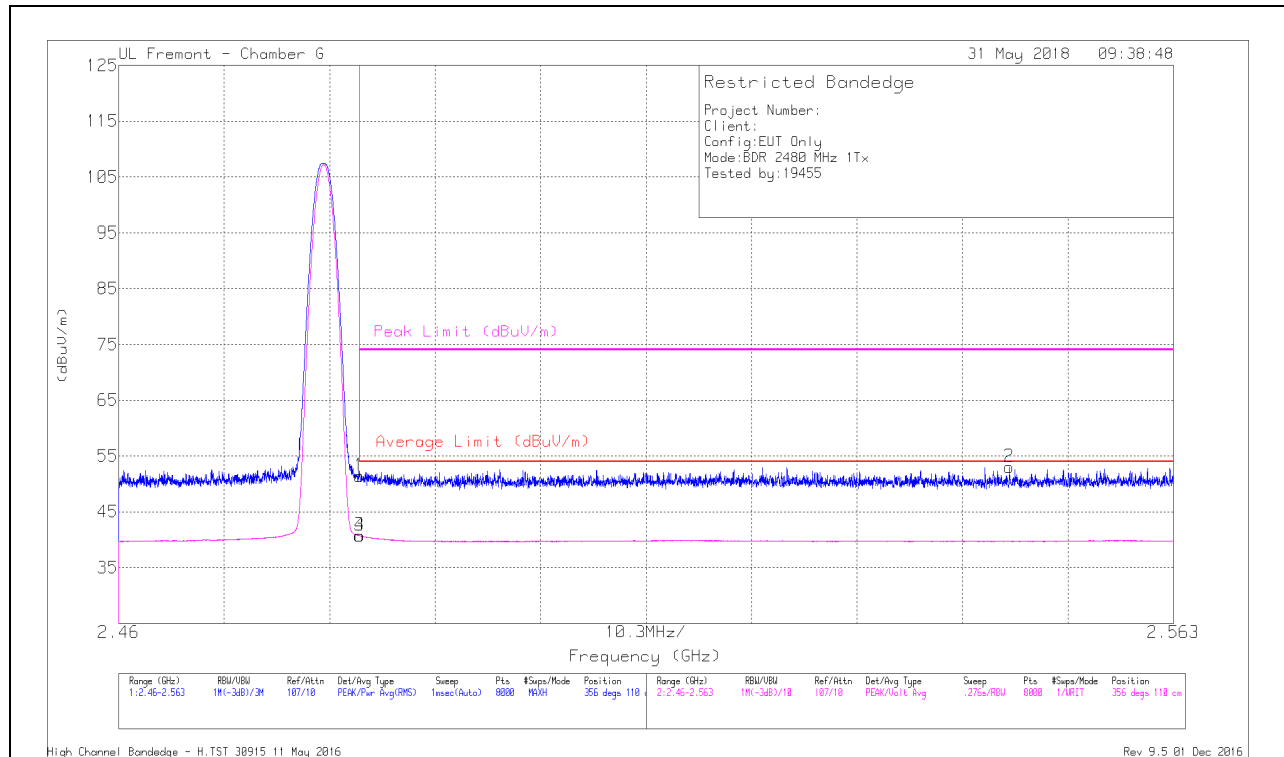


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.327	42.91	Pk	31.8	-22.4	52.31	-	-	74	-21.69	228	109	V
4	* 2.389	29.48	VA1T	32.1	-22.3	39.28	54	-14.72	-	-	228	109	V
1	* 2.39	40.57	Pk	32.1	-22.3	50.37	-	-	74	-23.63	228	109	V
3	* 2.39	29.46	VA1T	32.1	-22.3	39.26	54	-14.74	-	-	228	109	V

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

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

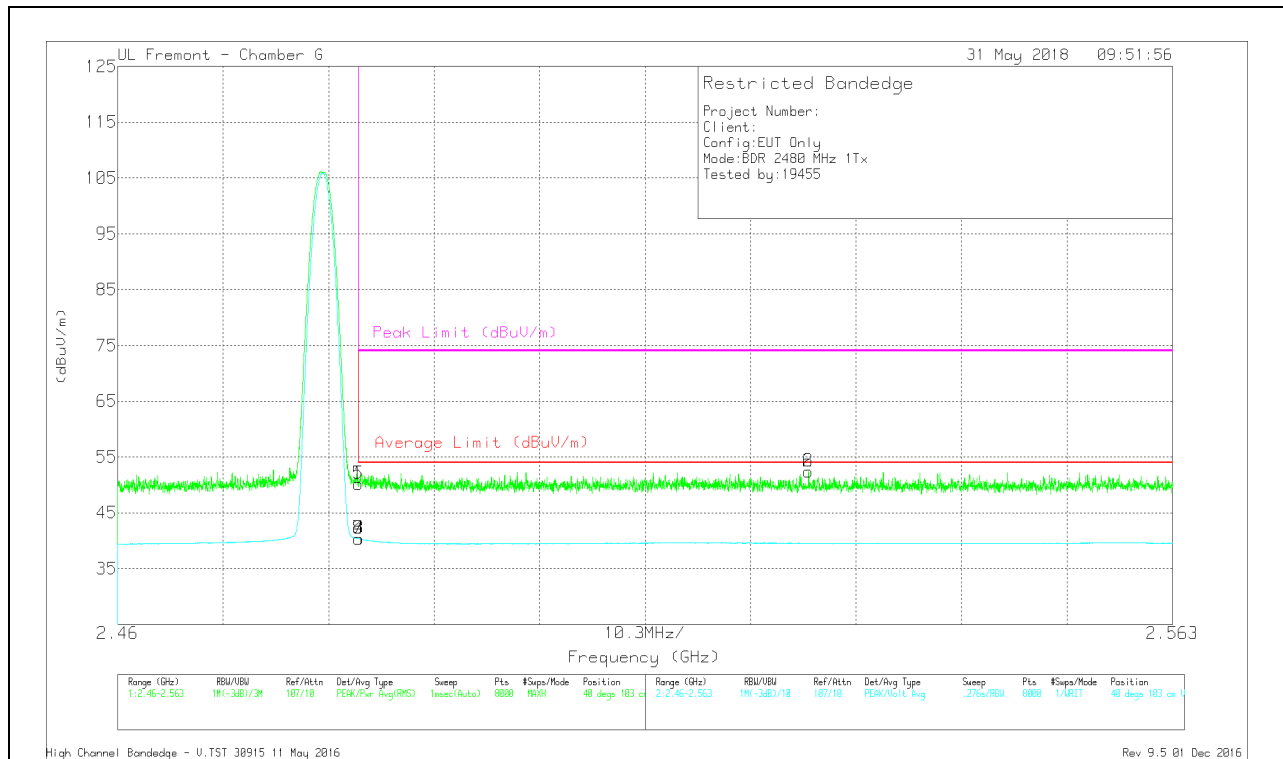
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.22	Pk	32.5	-22.3	51.42	-	-	74	-22.58	356	110	H
3	* 2.484	30.51	VA1T	32.5	-22.3	40.71	54	-13.29	-	-	356	110	H
4	* 2.484	30.5	VA1T	32.5	-22.3	40.7	54	-13.3	-	-	356	110	H
2	2.547	42.62	Pk	32.6	-22.2	53.02	-	-	74	-20.98	356	110	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

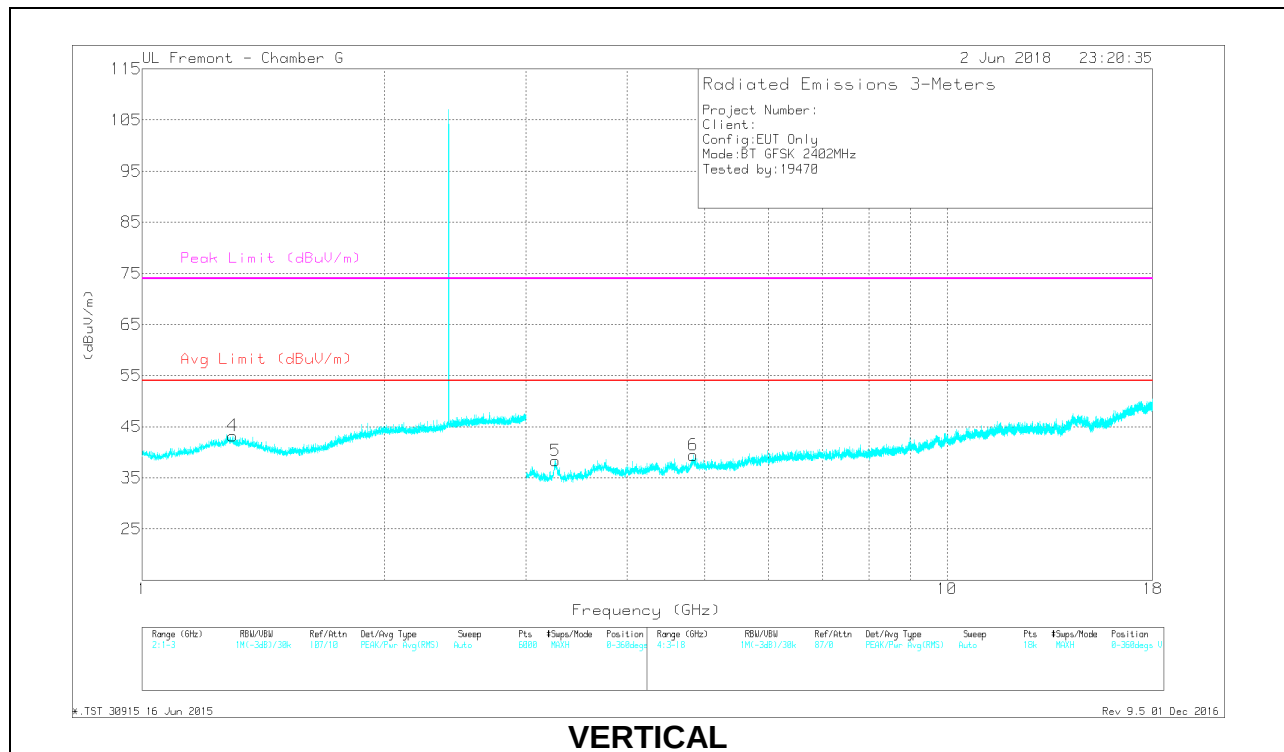
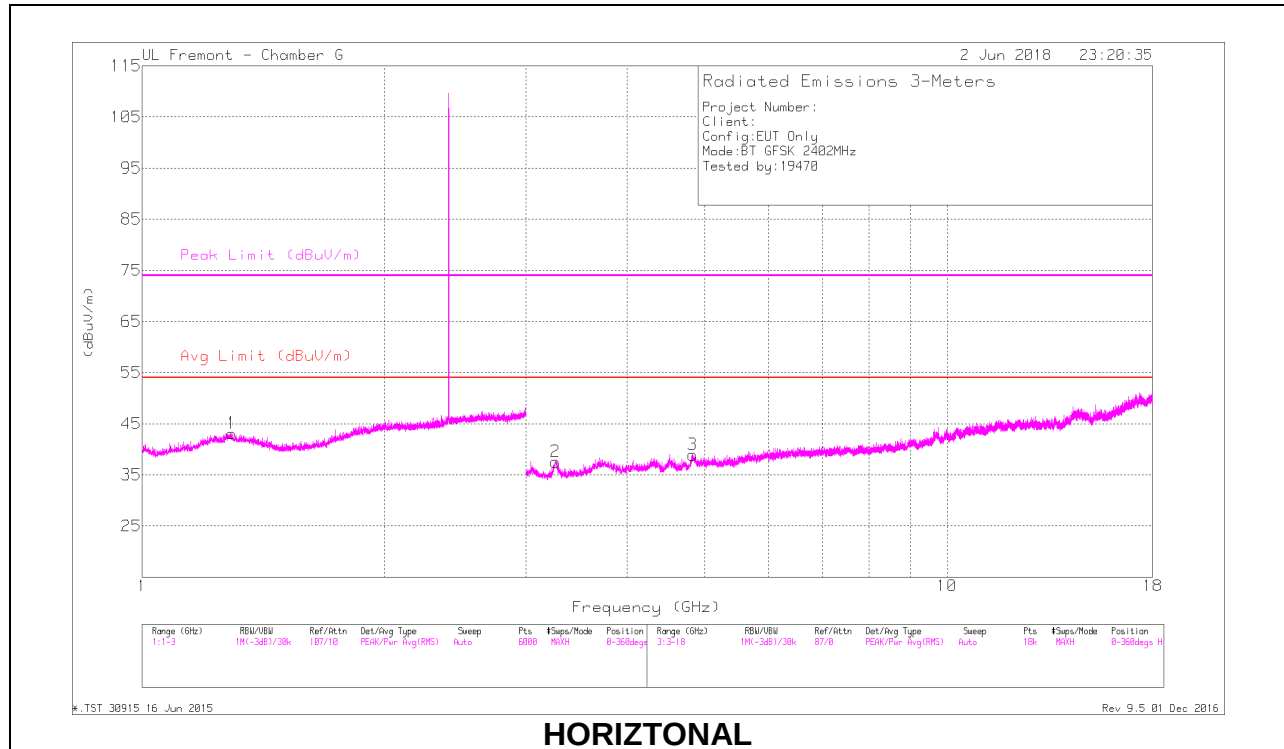


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40	Pk	32.5	-22.3	50.2	-	-	74	-23.8	40	103	V
3	* 2.484	30.17	VA1T	32.5	-22.3	40.37	54	-13.63	-	-	40	103	V
4	* 2.484	30.17	VA1T	32.5	-22.3	40.37	54	-13.63	-	-	40	103	V
2	2.527	42.08	Pk	32.6	-22.3	52.38	-	-	74	-21.62	40	103	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**

RADIATED EMISSIONS

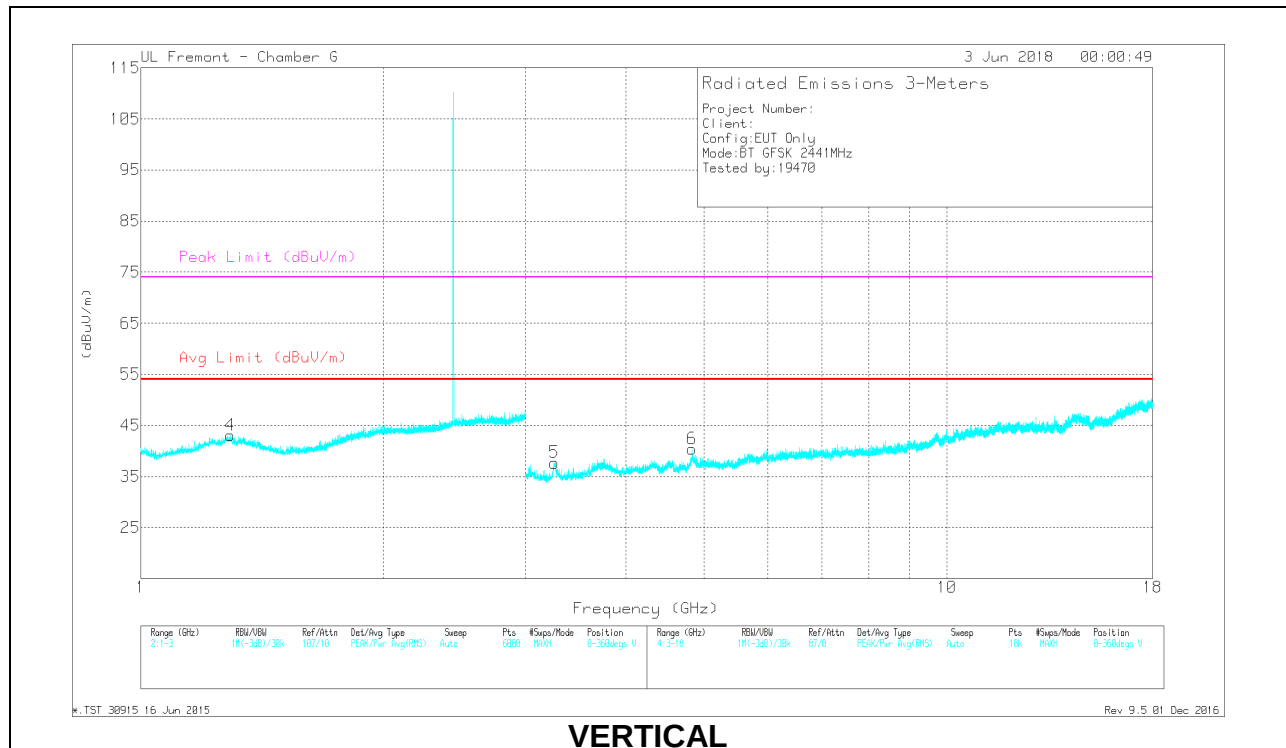
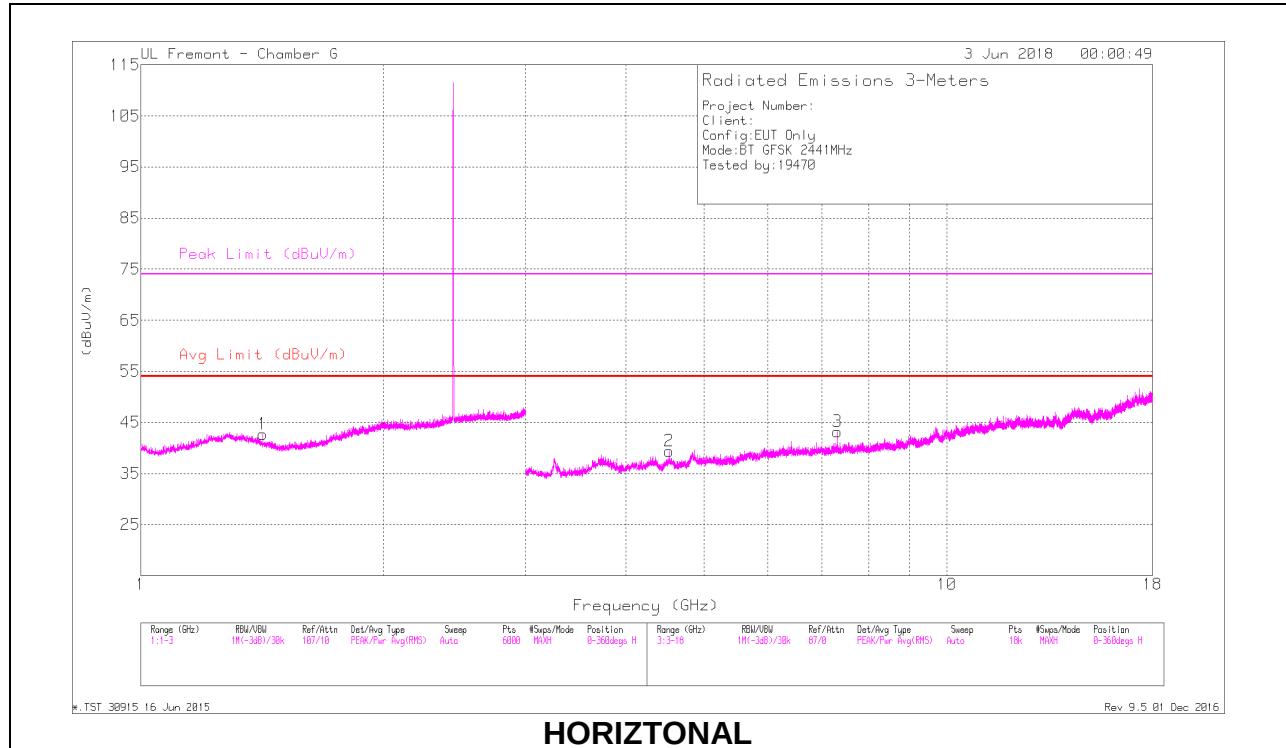
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.291	43.2	PKFH	30.2	-23.8	49.6	-	-	74	-24.4	12	397	H
	* 1.291	30.85	VA1T	30.2	-23.8	37.25	54	-16.75	-	-	12	397	H
4	* 1.297	43.29	PKFH	30	-23.8	49.49	-	-	74	-24.51	287	256	V
	* 1.294	31.06	VA1T	30.2	-23.8	37.46	54	-16.54	-	-	287	256	V
2	* 3.265	39.74	PKFH	35.5	-30.6	44.64	-	-	74	-29.36	52	315	H
	* 3.261	28.14	VA1T	35.4	-30.7	32.84	54	-21.16	-	-	52	315	H
3	* 4.828	40.89	PKFH	34.3	-29.7	45.49	-	-	74	-28.51	173	288	H
	* 4.829	28.73	VA1T	34.3	-29.7	33.33	54	-20.67	-	-	173	288	H
5	* 3.264	40.16	PKFH	35.5	-30.6	45.06	-	-	74	-28.94	230	197	V
	* 3.261	28.14	VA1T	35.4	-30.7	32.84	54	-21.16	-	-	230	197	V
6	* 4.84	39.71	PKFH	34.3	-29.8	44.21	-	-	74	-29.79	115	259	V
	* 4.84	28.59	VA1T	34.3	-29.8	33.09	54	-20.91	-	-	115	259	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



RADIATED EMISSIONS

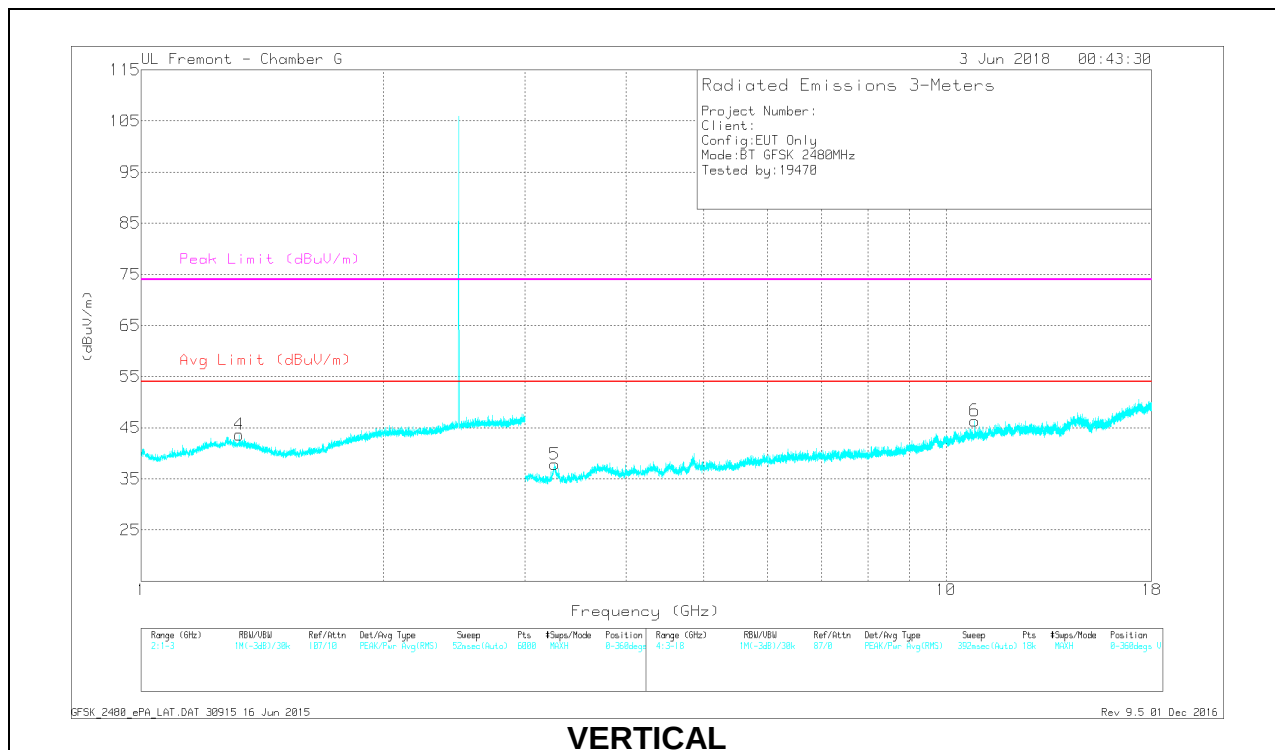
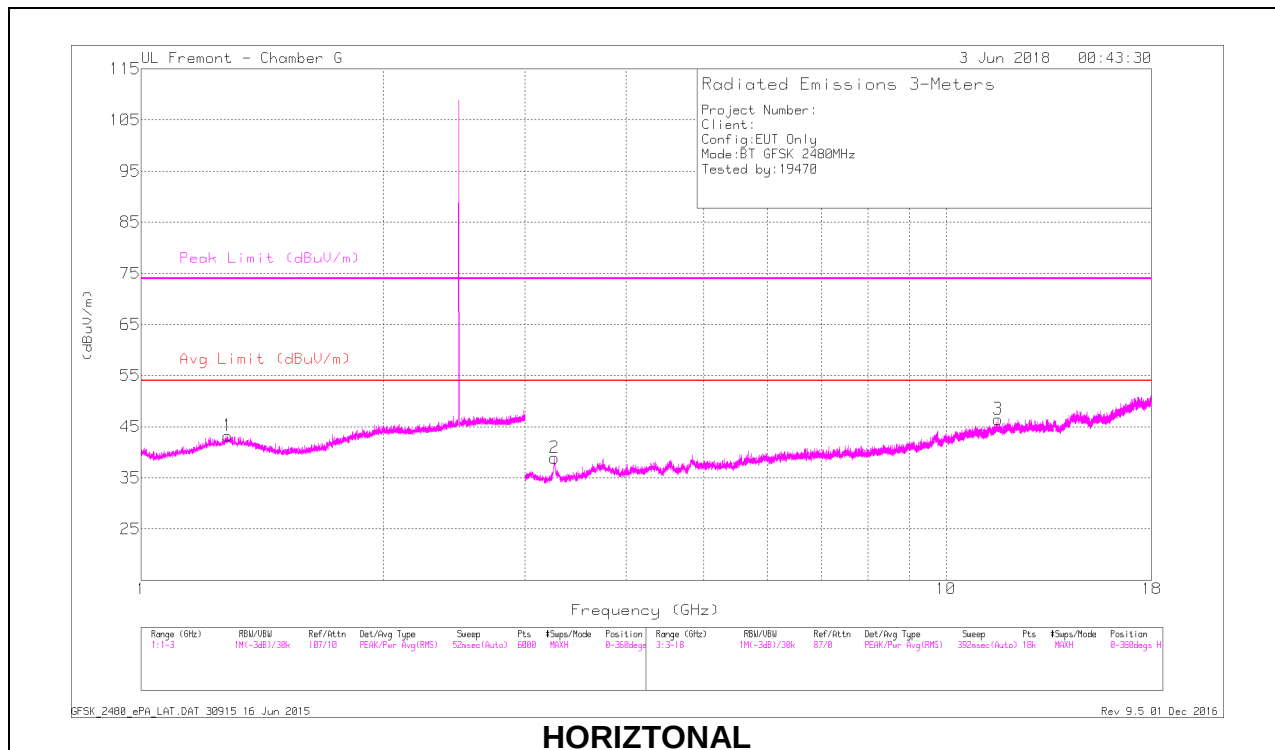
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.417	41.57	PKFH	28.7	-23.5	46.77	-	-	74	-27.23	63	118	H
	* 1.416	30.14	VA1T	28.7	-23.5	35.34	54	-18.66	-	-	63	118	H
4	* 1.292	43.01	PKFH	30.2	-23.8	49.41	-	-	74	-24.59	309	267	V
	* 1.291	31.01	VA1T	30.2	-23.8	37.41	54	-16.59	-	-	309	267	V
2	* 4.524	40.9	PKFH	34.4	-30	45.3	-	-	74	-28.7	112	157	H
	* 4.524	27.52	VA1T	34.4	-30	31.92	54	-22.08	-	-	112	157	H
3	* 7.323	41.54	PKFH	35.8	-27.6	49.74	-	-	74	-24.26	12	178	H
	* 7.323	32.43	VA1T	35.8	-27.6	40.63	54	-13.37	-	-	12	178	H
5	* 3.262	39.9	PKFH	35.5	-30.7	44.7	-	-	74	-29.3	45	314	V
	* 3.26	28.19	VA1T	35.3	-30.7	32.79	54	-21.21	-	-	45	314	V
6	* 4.829	40.8	PKFH	34.3	-29.7	45.4	-	-	74	-28.6	120	264	V
	* 4.828	28.61	VA1T	34.3	-29.7	33.21	54	-20.79	-	-	120	264	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



RADIATED EMISSIONS

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.28	42.79	PKFH	30.3	-23.9	49.19	-	-	74	-24.81	277	308	H
	* 1.282	30.73	VA1T	30.3	-23.9	37.13	54	-16.87	-	-	277	308	H
4	* 1.325	42.54	PKFH	29.9	-23.8	48.64	-	-	74	-25.36	30	278	V
	* 1.326	30.96	VA1T	29.9	-23.8	37.06	54	-16.94	-	-	30	278	V
2	* 3.263	41.35	PKFH	35.5	-30.6	46.25	-	-	74	-27.75	321	313	H
	* 3.26	28.26	VA1T	35.4	-30.7	32.96	54	-21.04	-	-	321	313	H
3	* 11.602	35.02	PKFH	38.8	-22.8	51.02	-	-	74	-22.98	32	126	H
	* 11.601	23.42	VA1T	38.8	-22.7	39.52	54	-14.48	-	-	32	126	H
5	* 3.264	40.24	PKFH	35.5	-30.6	45.14	-	-	74	-28.86	123	316	V
	* 3.262	28.1	VA1T	35.5	-30.7	32.9	54	-21.1	-	-	123	316	V
6	* 10.856	35.51	PKFH	38.1	-23.3	50.31	-	-	74	-23.69	302	141	V
	* 10.856	23.9	VA1T	38.1	-23.3	38.7	54	-15.3	-	-	302	141	V

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

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

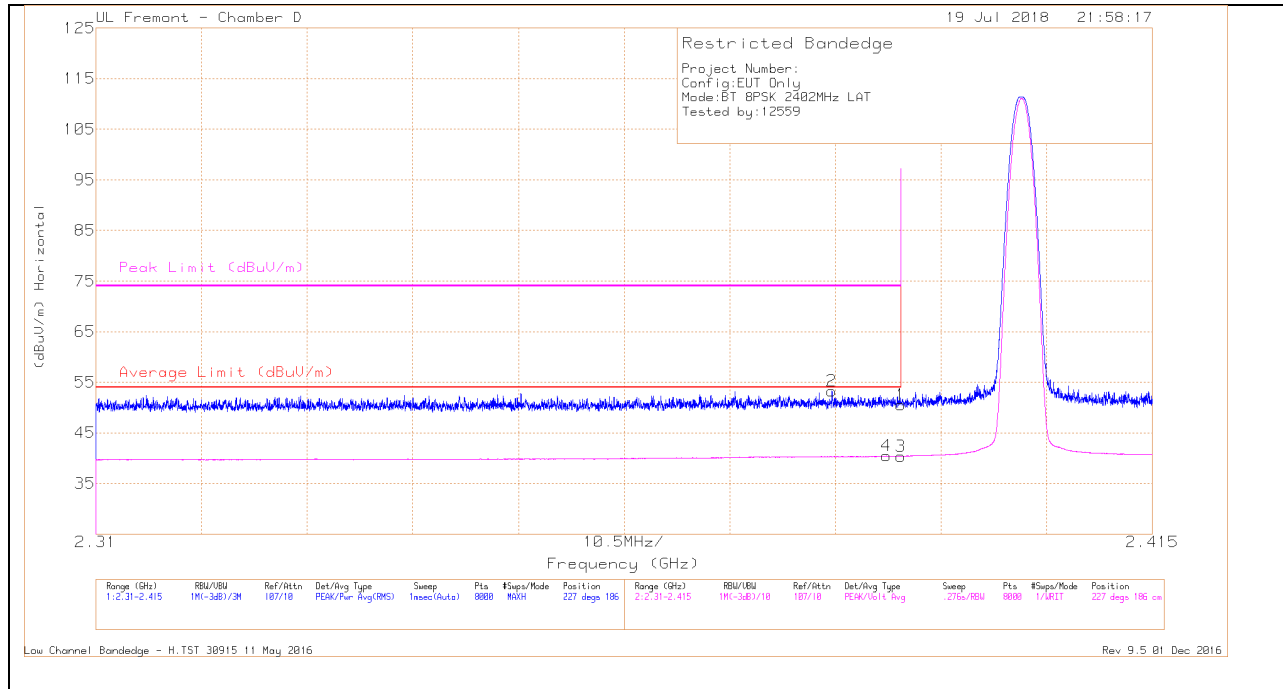
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.1.2. HIGH POWER ENCHANCED DATA RATE 8PSK MODULATION

Antenna 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/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	* 2.39	38.96	Pk	32.1	-20.5	50.56	-	-	74	-23.44	227	186	H
2	* 2.383	41.56	Pk	32.2	-20.5	53.26	-	-	74	-20.74	227	186	H
3	* 2.39	28.74	VA1T	32.1	-20.5	40.34	54	-13.66	-	-	227	186	H
4	* 2.389	28.83	VA1T	32.1	-20.5	40.43	54	-13.57	-	-	227	186	H

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

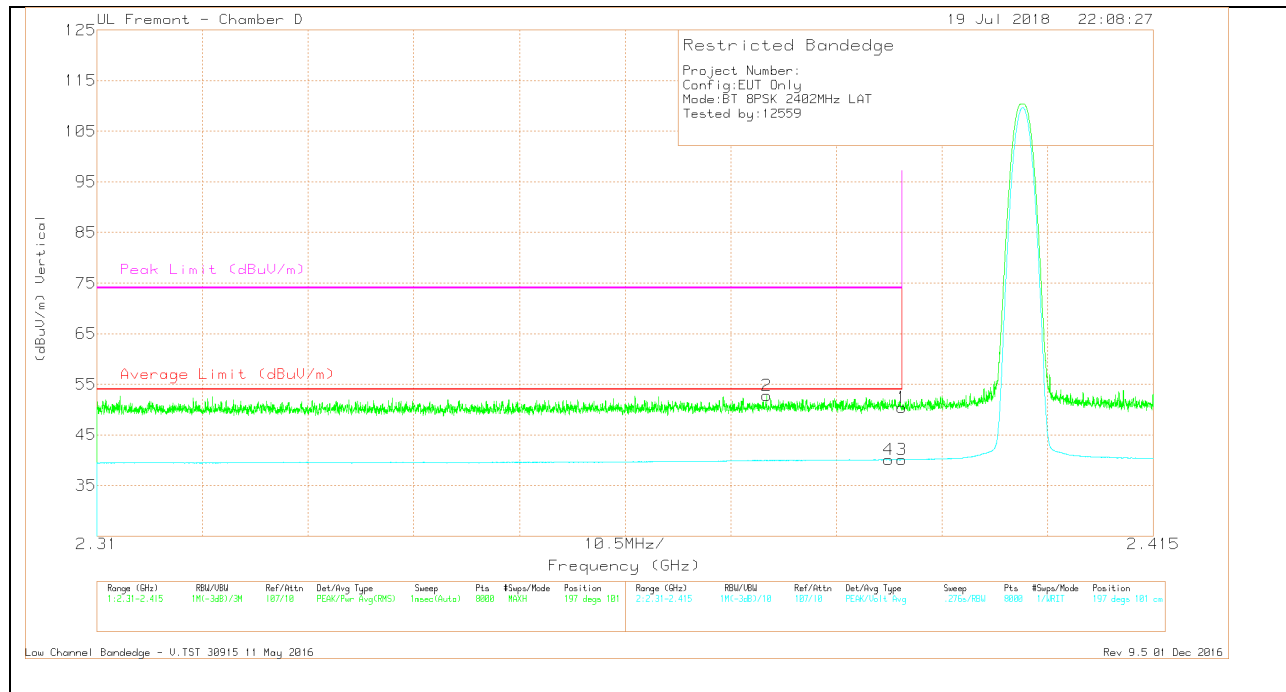
Pk - Peak detector

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 T119 (dB/m)	Amp/Cbl/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
1	* 2.39	38.78	Pk	32.1	-20.5	50.38	-	-	74	-23.62	197	101	V
2	* 2.377	41.1	Pk	32.1	-20.4	52.8	-	-	74	-21.2	197	101	V
3	* 2.39	28.5	VA1T	32.1	-20.5	40.1	54	-13.9	-	-	197	101	V
4	* 2.389	28.52	VA1T	32.1	-20.5	40.12	54	-13.88	-	-	197	101	V

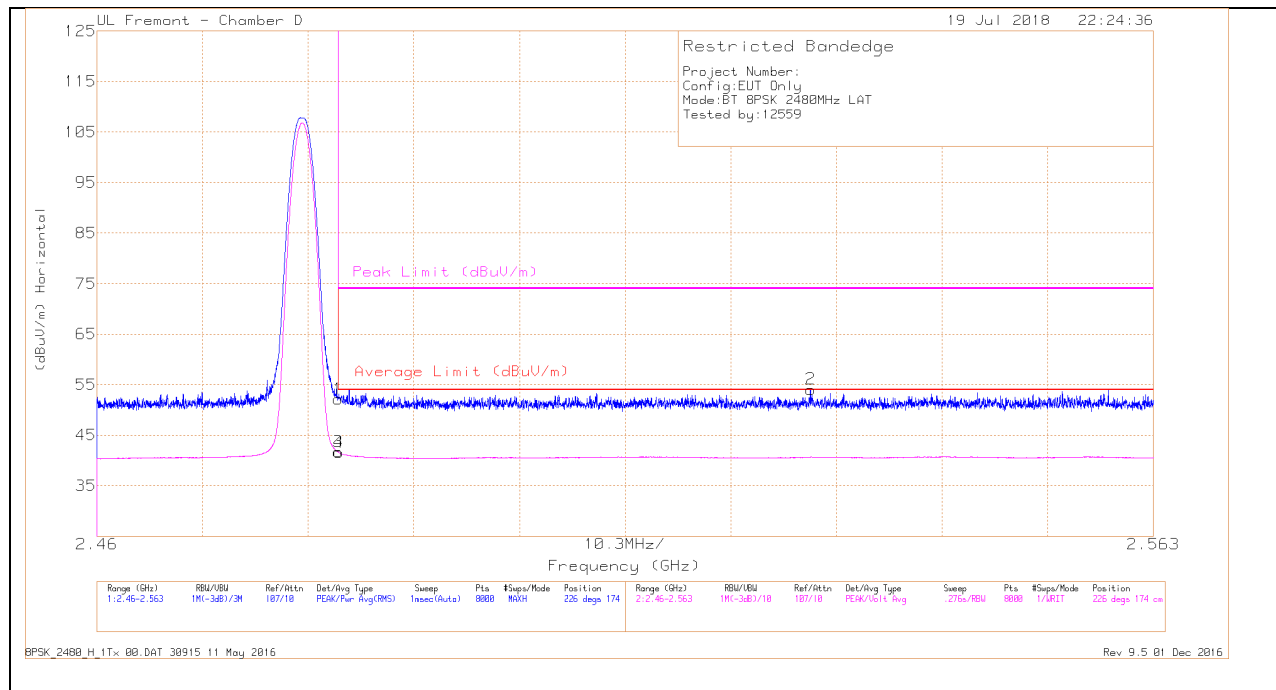
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

Low Channel Bandedge - V.TST 30915 11 May 2016

Rev 9.5 01 Dec 2016

BANEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/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	40.05	Pk	32.5	-20.4	52.15	-	-	74	-21.85	226	174	H
3	* 2.484	29.6	VA1T	32.5	-20.4	41.7	54	-12.3	-	-	226	174	H
4	* 2.484	29.57	VA1T	32.5	-20.5	41.57	54	-12.43	-	-	226	174	H
2	2.53	41.78	Pk	32.6	-20.3	54.08	-	-	74	-19.92	226	174	H

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

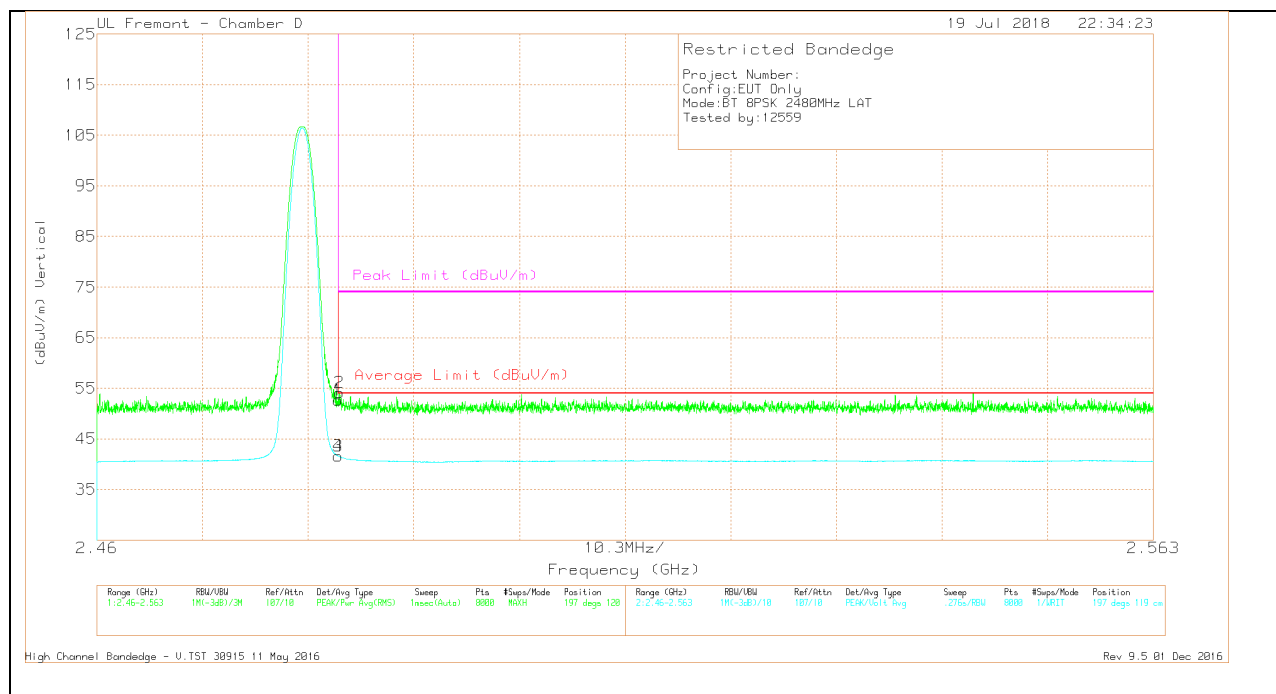
Pk - Peak detector

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

8PSK_2480_H_1Tx_00.DAT 30915 11 May 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/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
1	* 2.484	40.57	Pk	32.5	-20.4	52.67	-	-	74	-21.33	197	120	V
2	* 2.484	42.16	Pk	32.5	-20.5	54.16	-	-	74	-19.84	197	120	V
3	* 2.484	29.52	VA1T	32.5	-20.4	41.62	54	-12.38	-	-	197	119	V
4	* 2.484	29.48	VA1T	32.5	-20.4	41.58	54	-12.42	-	-	197	119	V

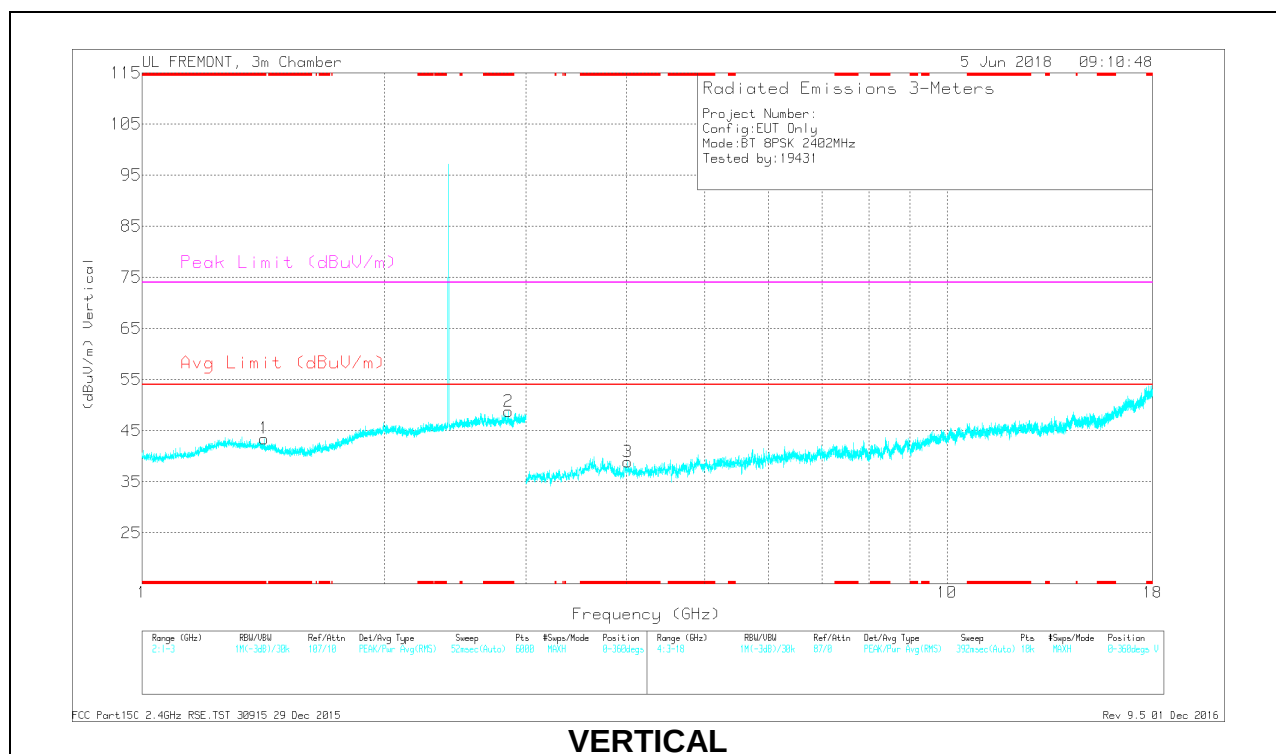
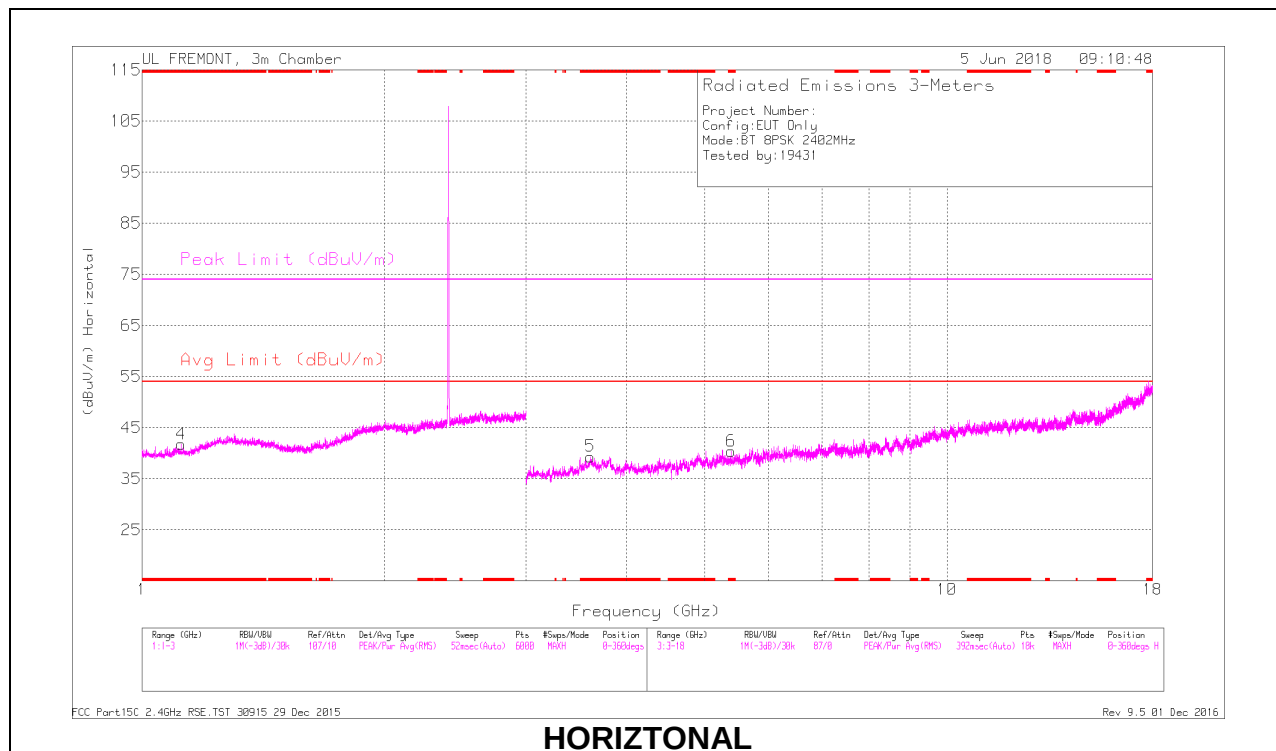
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

High Channel Bandedge - V.TST 30915 11 May 2016

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL RESULTS**

RADIATED EMISSIONS

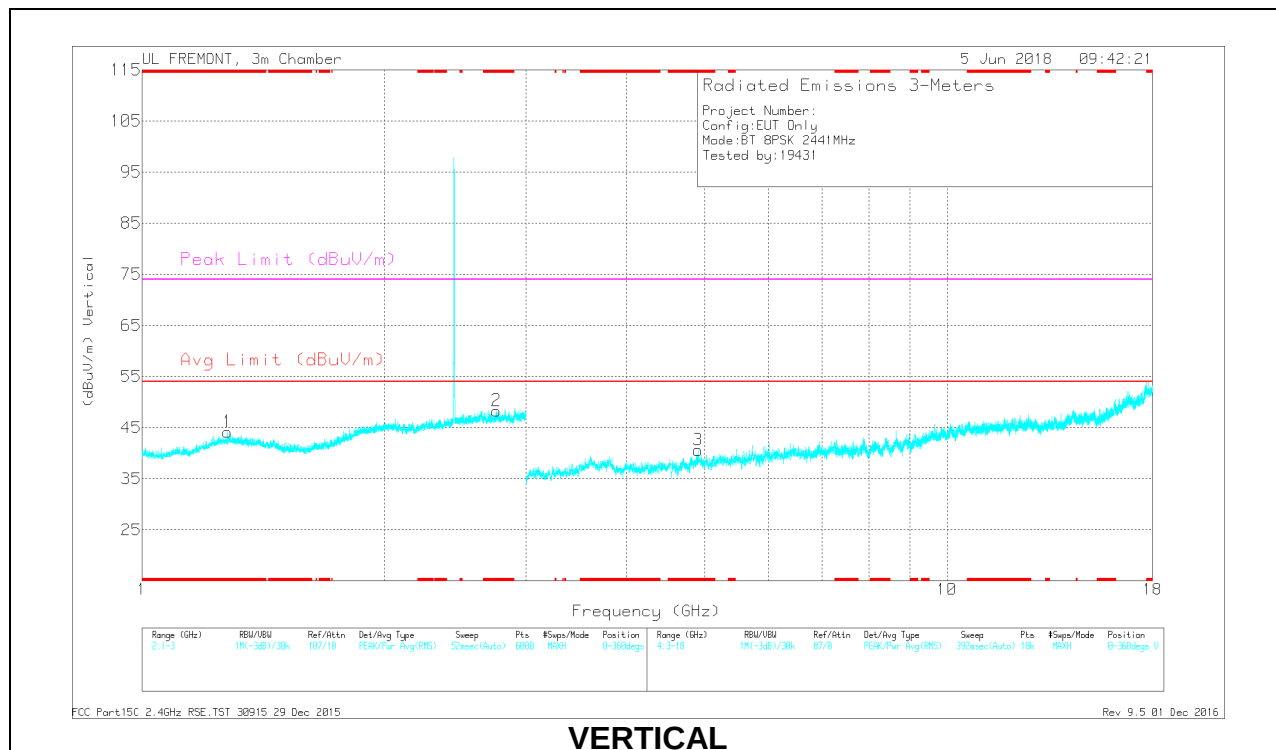
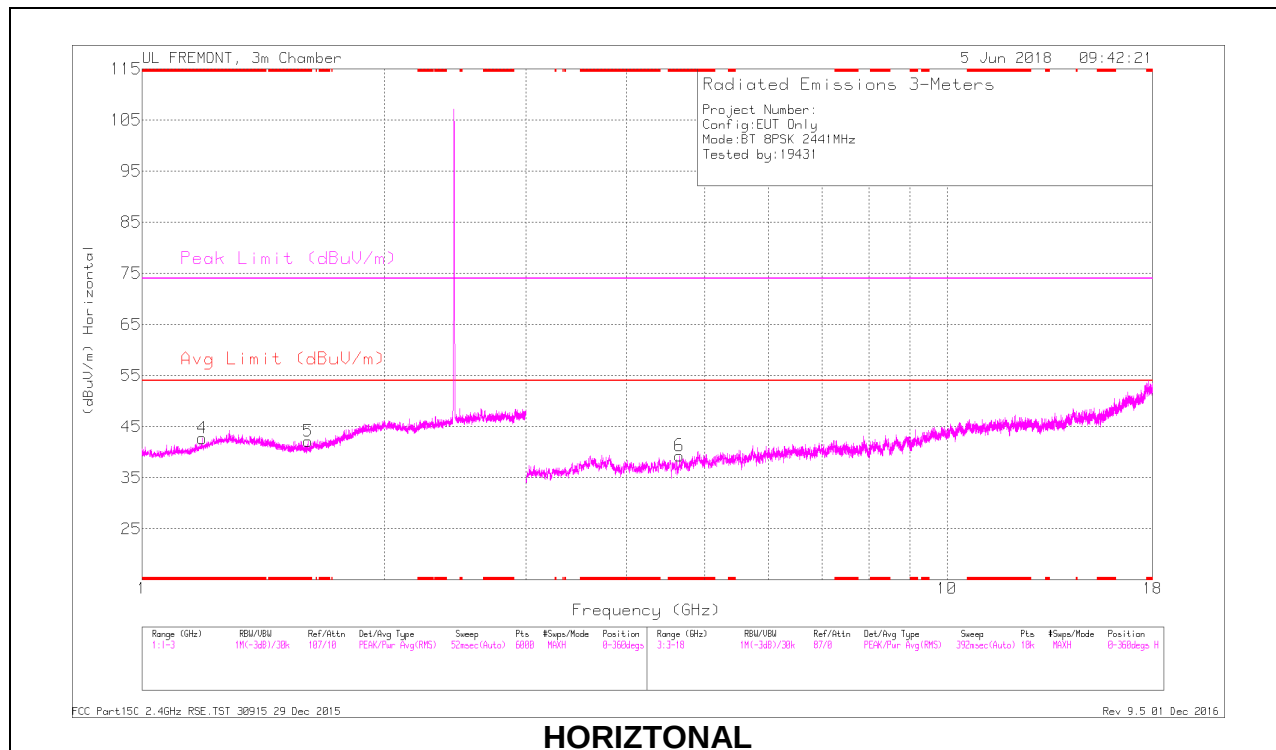
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.12	41.43	PKFH	27.9	-22.3	47.03	-	-	74	-26.97	216	334	H
	* 1.117	29.32	VA1T	27.9	-22.3	34.92	54	-19.08	-	-	216	334	H
1	* 1.419	41.02	PKFH	29.1	-21.6	48.52	-	-	74	-25.48	66	316	V
	* 1.416	29.08	VA1T	29.1	-21.7	36.48	54	-17.52	-	-	66	316	V
2	* 2.856	41.28	PKFH	32.7	-20.3	53.68	-	-	74	-20.32	142	263	V
	* 2.853	29.09	VA1T	32.7	-20.2	41.59	54	-12.41	-	-	142	263	V
5	* 3.605	39.96	PKFH	34.7	-29.1	45.56	-	-	74	-28.44	124	135	H
	* 3.607	28.01	VA1T	34.7	-28.9	33.81	54	-20.19	-	-	124	135	H
6	* 5.392	37.65	PKFH	34.8	-27.1	45.35	-	-	74	-28.65	46	101	H
	* 5.395	26.22	VA1T	34.8	-27.2	33.82	54	-20.18	-	-	46	101	H
3	* 4.011	39.17	PKFH	33.5	-28.1	44.57	-	-	74	-29.43	296	196	V
	* 4.011	27.54	VA1T	33.5	-28.1	32.94	54	-21.06	-	-	296	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

MID CHANNEL RESULTS



RADIATED EMISSIONS

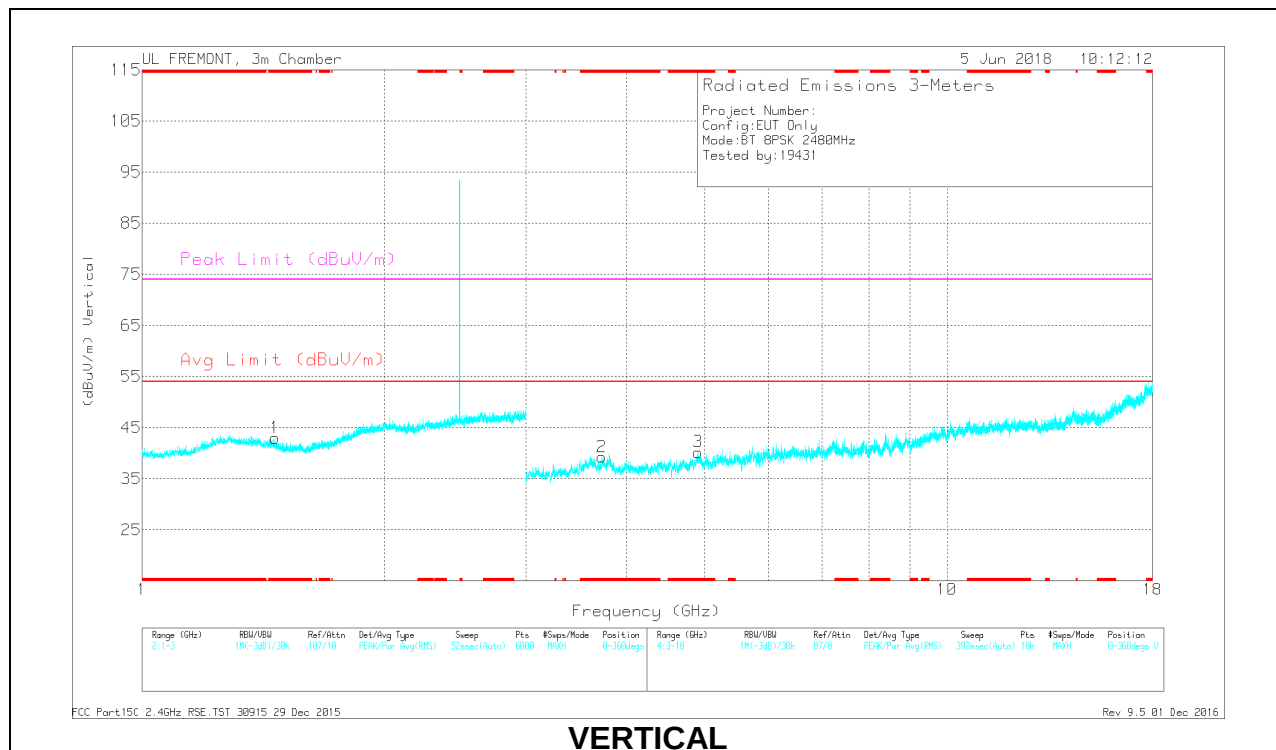
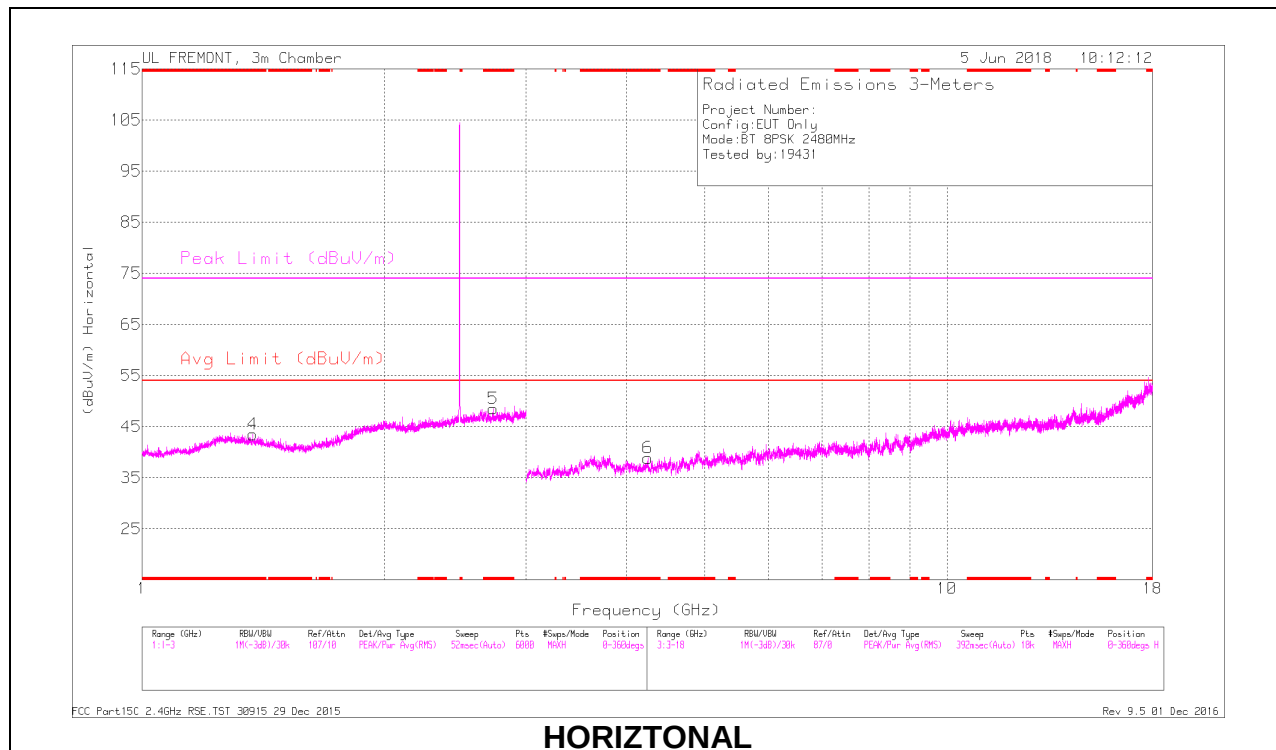
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.187	40.94	PKFH	28.6	-22	47.54	-	-	74	-26.46	266	131	H
	* 1.188	29.49	VA1T	28.7	-22.1	36.09	54	-17.91	-	-	266	131	H
5	* 1.608	41.28	PKFH	28.1	-21.7	47.68	-	-	74	-26.32	322	202	H
	* 1.607	29.1	VA1T	28.1	-21.7	35.5	54	-18.5	-	-	322	202	H
1	* 1.279	40.92	PKFH	29.9	-22	48.82	-	-	74	-25.18	243	326	V
	* 1.276	29.4	VA1T	29.9	-22.1	37.2	54	-16.8	-	-	243	326	V
2	* 2.76	41.18	PKFH	32.5	-20.1	53.58	-	-	74	-20.42	300	214	V
	* 2.756	29.15	VA1T	32.5	-20.4	41.25	54	-12.75	-	-	300	214	V
6	* 4.656	39.11	PKFH	34.1	-28	45.21	-	-	74	-28.79	119	322	H
	* 4.657	27.24	VA1T	34.1	-28	33.34	54	-20.66	-	-	119	322	H
3	* 4.904	38.54	PKFH	34	-26.3	46.24	-	-	74	-27.76	225	133	V
	* 4.906	27.07	VA1T	34	-26.6	34.47	54	-19.53	-	-	225	133	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



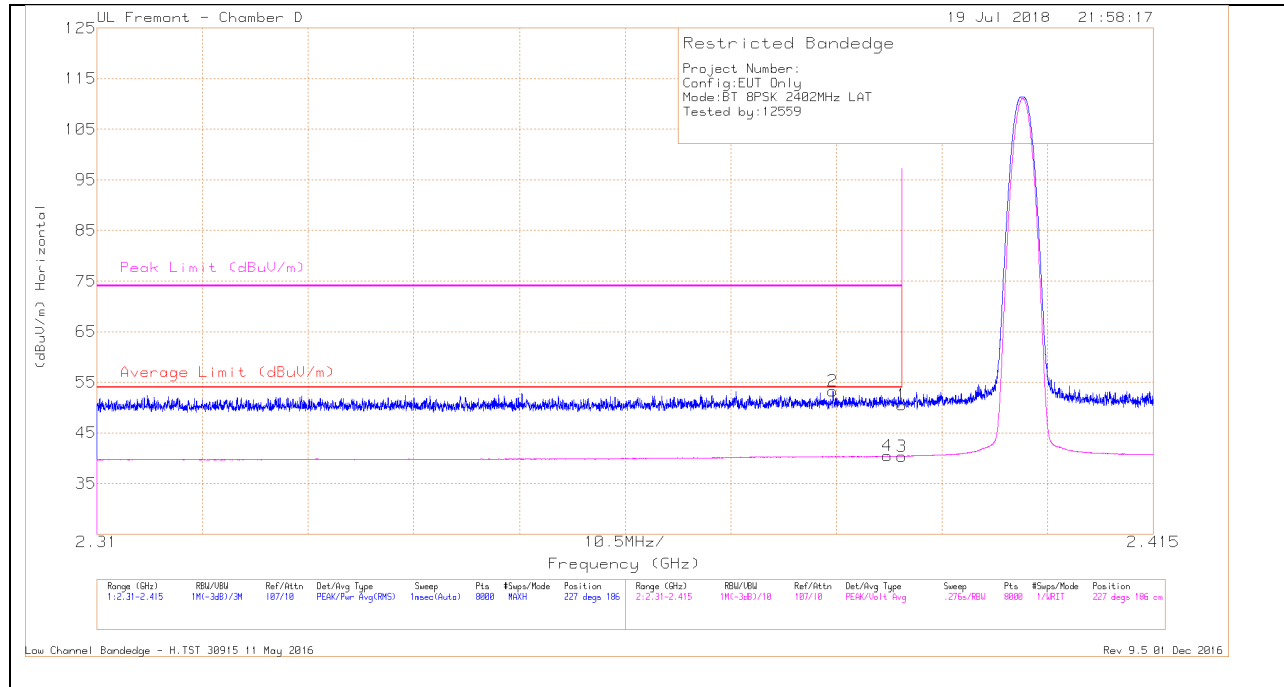
RADIATED EMISSIONS

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.373	41.29	PKFH	29.4	-21.6	49.09	-	-	74	-24.91	275	269	H
	* 1.375	29.15	VA1T	29.4	-21.6	36.95	54	-17.05	-	-	275	269	H
5	* 2.73	40.52	PKFH	32.5	-20.3	52.72	-	-	74	-21.28	132	213	H
	* 2.733	29.15	VA1T	32.5	-20.5	41.15	54	-12.85	-	-	132	213	H
1	* 1.465	42.83	PKFH	28.7	-21.6	49.93	-	-	74	-24.07	107	266	V
	* 1.465	29.14	VA1T	28.7	-21.6	36.24	54	-17.76	-	-	107	266	V
6	* 4.252	38.91	PKFH	33.4	-27.9	44.41	-	-	74	-29.59	231	297	H
	* 4.251	27.34	VA1T	33.4	-27.9	32.84	54	-21.16	-	-	231	297	H
2	* 3.728	38.72	PKFH	34	-27.2	45.52	-	-	74	-28.48	226	161	V
	* 3.727	26.81	VA1T	34	-27.4	33.41	54	-20.59	-	-	226	161	V
3	* 4.903	38.9	PKFH	34	-26.2	46.7	-	-	74	-27.3	106	157	V
	* 4.906	27.04	VA1T	34	-26.5	34.54	54	-19.46	-	-	106	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

Antenna 5**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

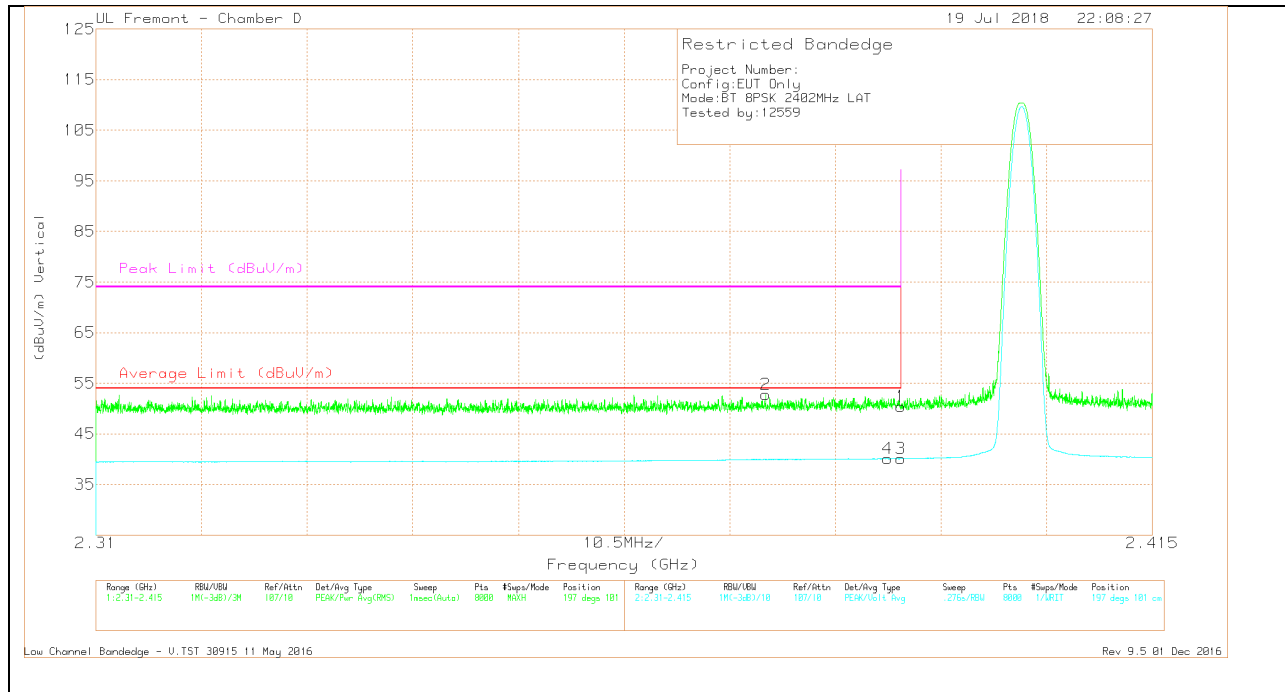
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.96	Pk	32.1	-20.5	50.56	-	-	74	-23.44	227	186	H
2	* 2.383	41.56	Pk	32.2	-20.5	53.26	-	-	74	-20.74	227	186	H
3	* 2.39	28.74	VA1T	32.1	-20.5	40.34	54	-13.66	-	-	227	186	H
4	* 2.389	28.83	VA1T	32.1	-20.5	40.43	54	-13.57	-	-	227	186	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

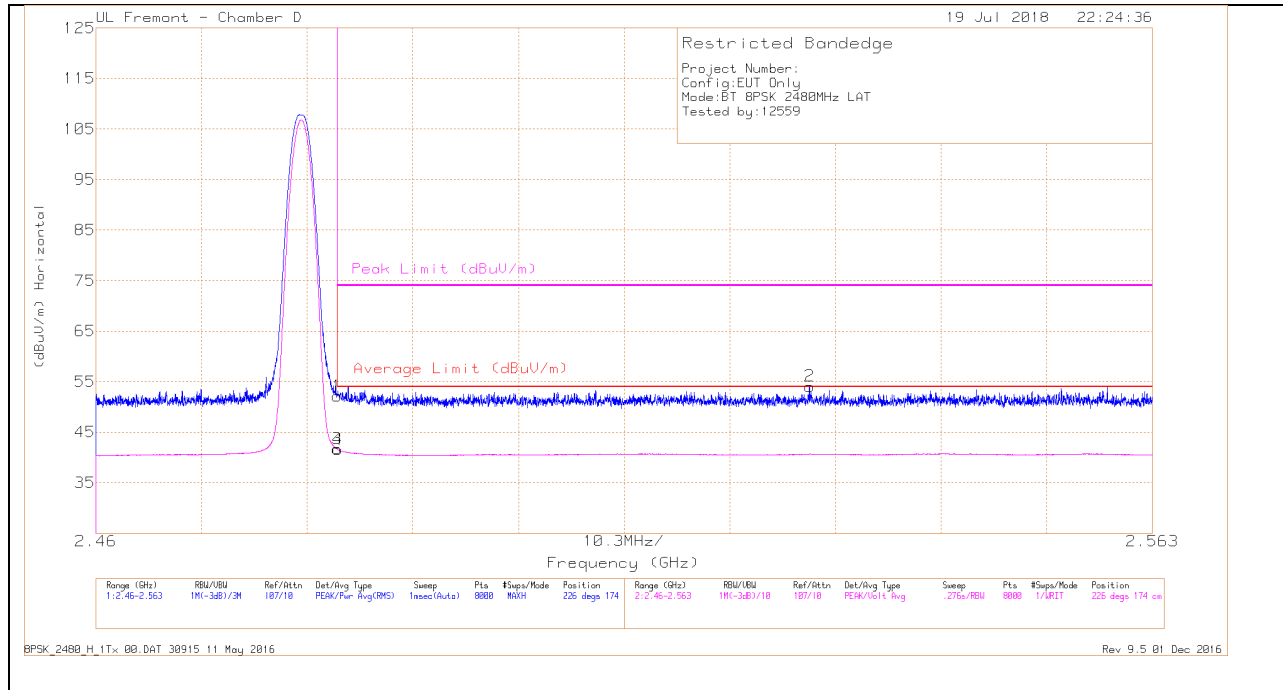


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Fl tr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.78	Pk	32.1	-20.5	50.38	-	-	74	-23.62	197	101	V
2	* 2.377	41.1	Pk	32.1	-20.4	52.8	-	-	74	-21.2	197	101	V
3	* 2.39	28.5	VA1T	32.1	-20.5	40.1	54	-13.9	-	-	197	101	V
4	* 2.389	28.52	VA1T	32.1	-20.5	40.12	54	-13.88	-	-	197	101	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

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

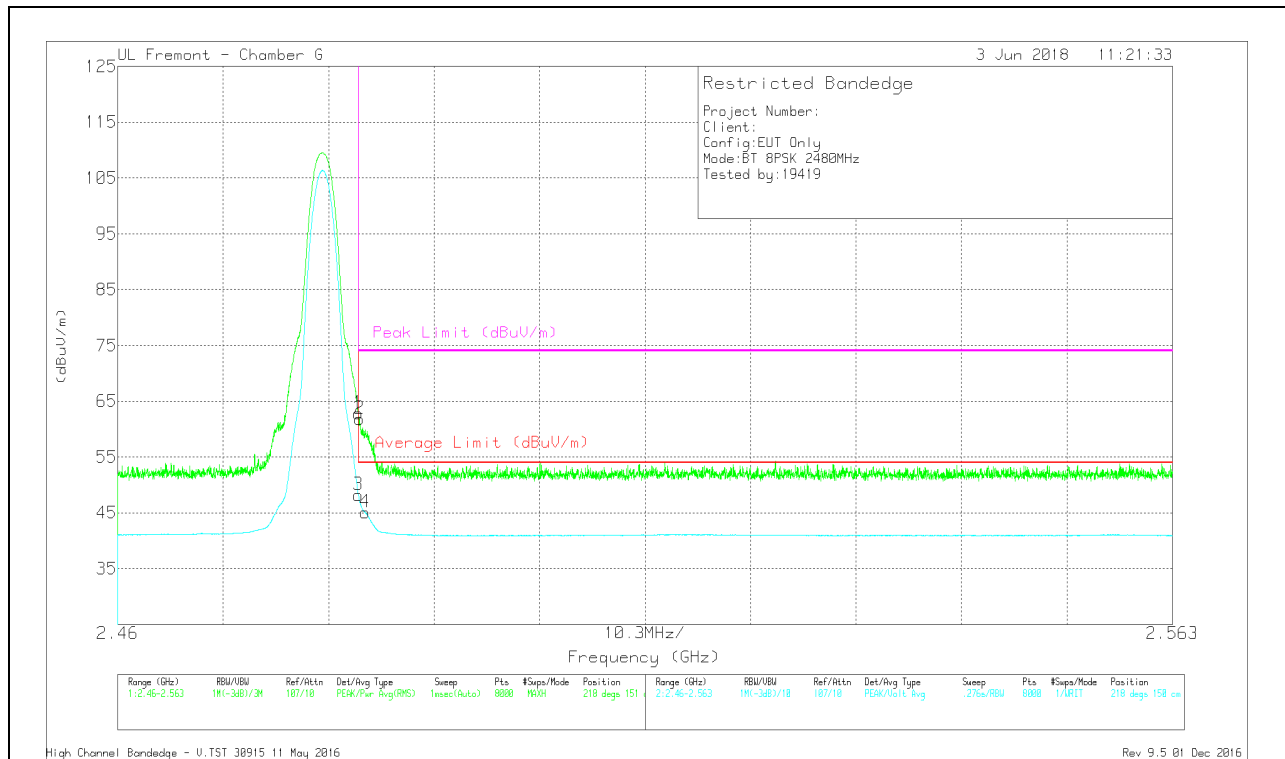
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.05	Pk	32.5	-20.4	52.15	-	-	74	-21.85	226	174	H
3	* 2.484	29.6	VA1T	32.5	-20.4	41.7	54	-12.3	-	-	226	174	H
4	* 2.484	29.57	VA1T	32.5	-20.5	41.57	54	-12.43	-	-	226	174	H
2	2.53	41.78	Pk	32.6	-20.3	54.08	-	-	74	-19.92	226	174	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

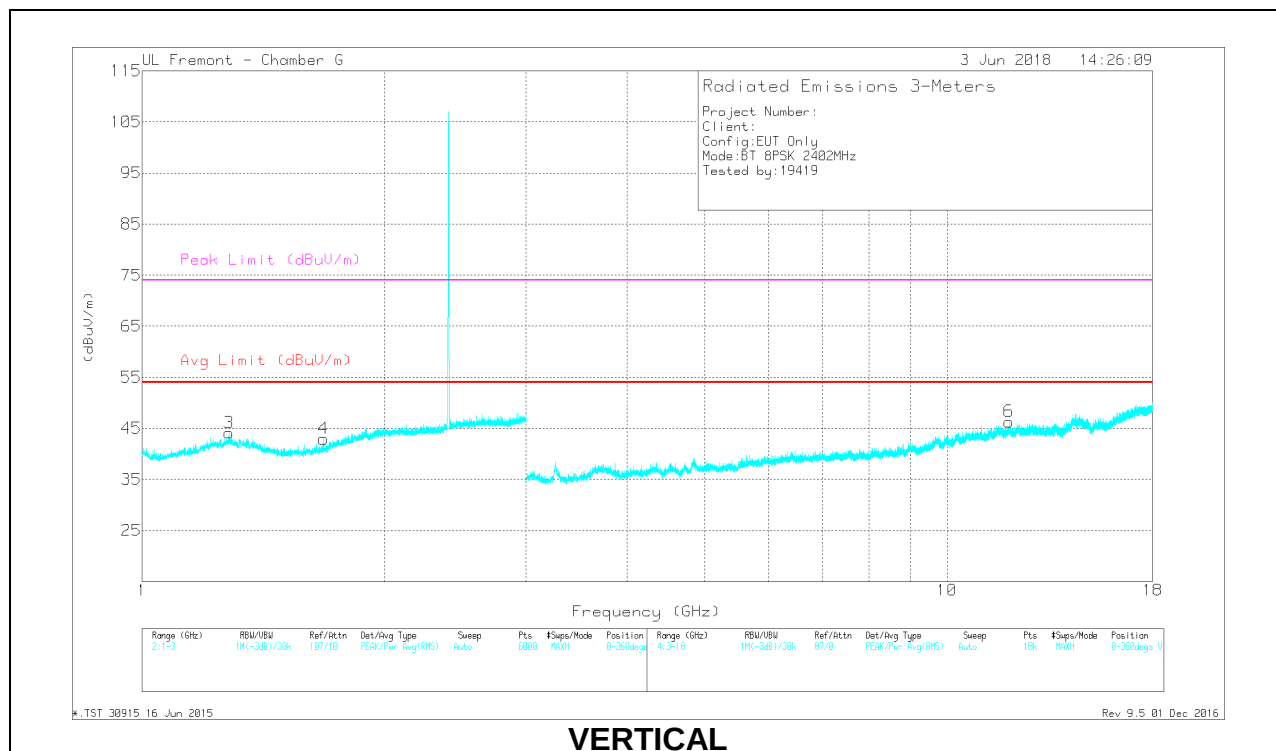
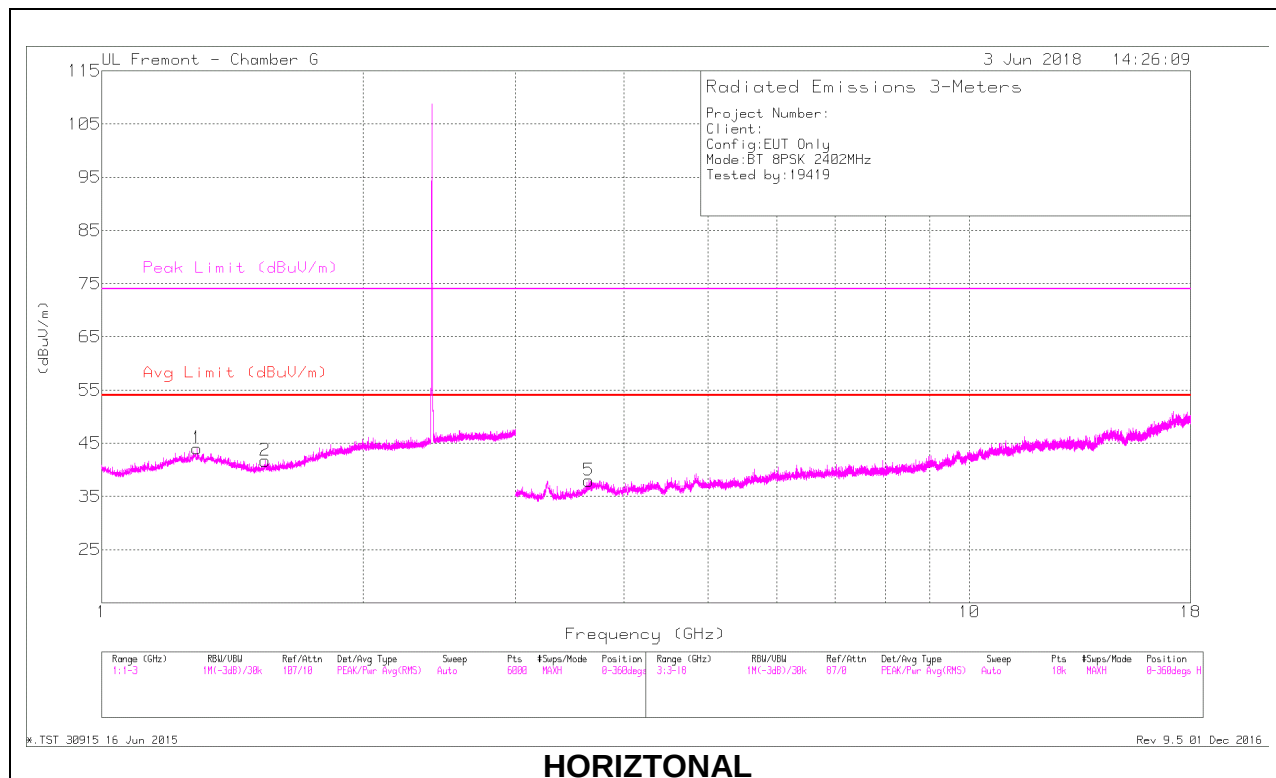


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	52.6	Pk	32.5	-22.3	62.8	-	-	74	-11.2	218	151	V
2	* 2.484	51.61	Pk	32.5	-22.3	61.81	-	-	74	-12.19	218	151	V
3	* 2.484	37.99	VA1T	32.5	-22.3	48.19	54	-5.81	-	-	218	150	V
4	* 2.484	34.86	VA1T	32.5	-22.3	45.06	54	-8.94	-	-	218	150	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**

RADIATED EMISSIONS

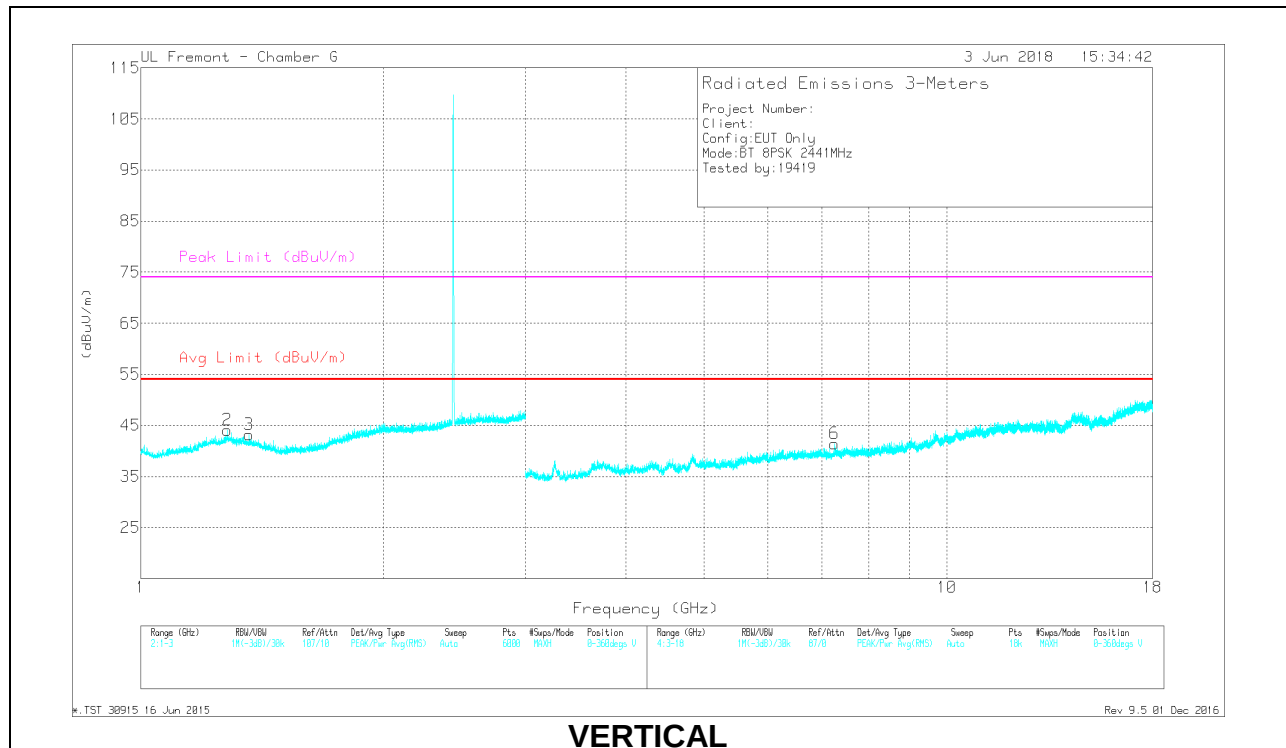
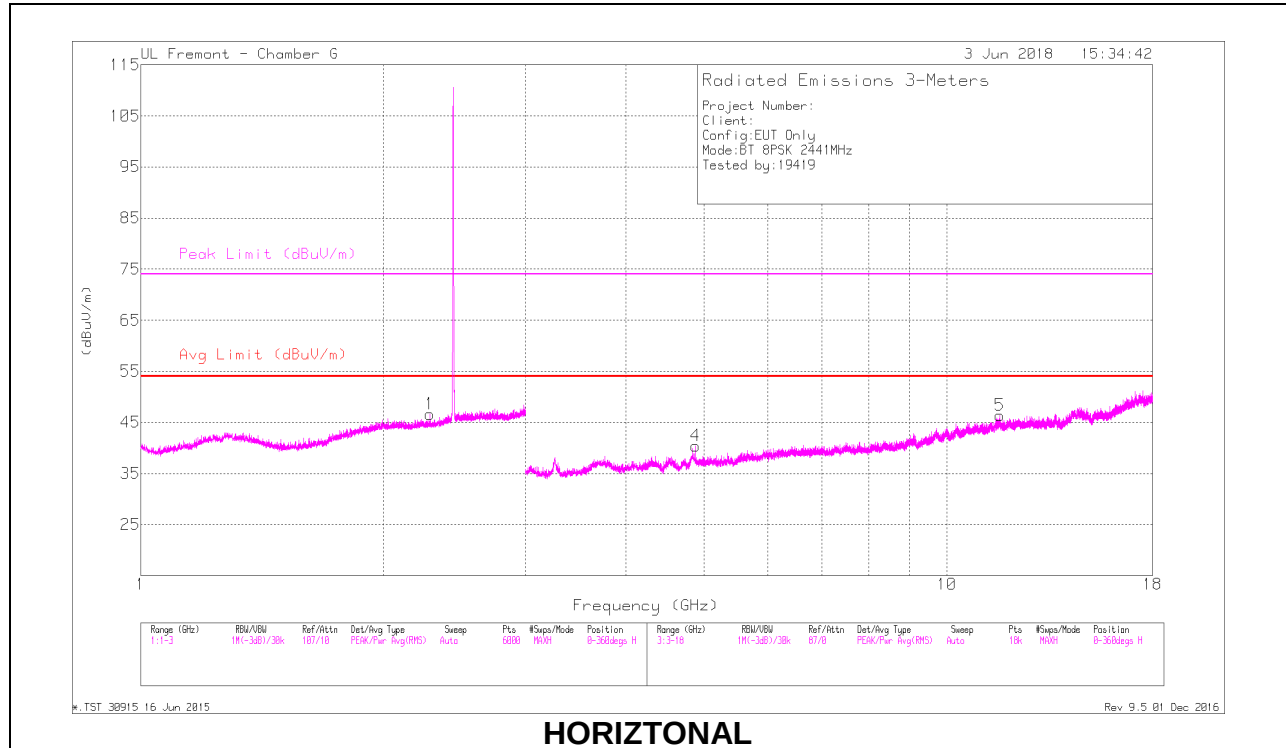
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.545	42.92	PKFH	28	-23.2	47.72	-	-	74	-26.28	326	291	H
	* 1.543	30.55	VA1T	28	-23.2	35.35	54	-18.65	-	-	326	291	H
2	* 1.287	41.73	PKFH	30.2	-23.9	48.03	-	-	74	-25.97	19	152	H
	* 1.287	30.59	VA1T	30.2	-23.9	36.89	54	-17.11	-	-	19	152	H
3	* 1.691	42.84	PKFH	28.7	-23.1	48.44	-	-	74	-25.56	324	288	V
	* 1.676	30.6	VA1T	28.6	-23.1	36.1	54	-17.9	-	-	324	288	V
4	* 1.273	43.1	PKFH	30.2	-23.9	49.4	-	-	74	-24.6	304	231	V
	* 1.285	30.88	VA1T	30.2	-23.9	37.18	54	-16.82	-	-	304	231	V
5	* 3.638	39.35	PKFH	34	-29.7	43.65	-	-	74	-30.35	290	155	H
	* 3.643	27.2	VA1T	33.9	-29.6	31.5	54	-22.5	-	-	290	155	H
6	* 11.944	35.8	PKFH	39	-22.6	52.2	-	-	74	-21.8	225	232	V
	* 11.947	23.17	VA1T	39	-22.6	39.57	54	-14.43	-	-	225	232	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



RADIATED EMISSIONS

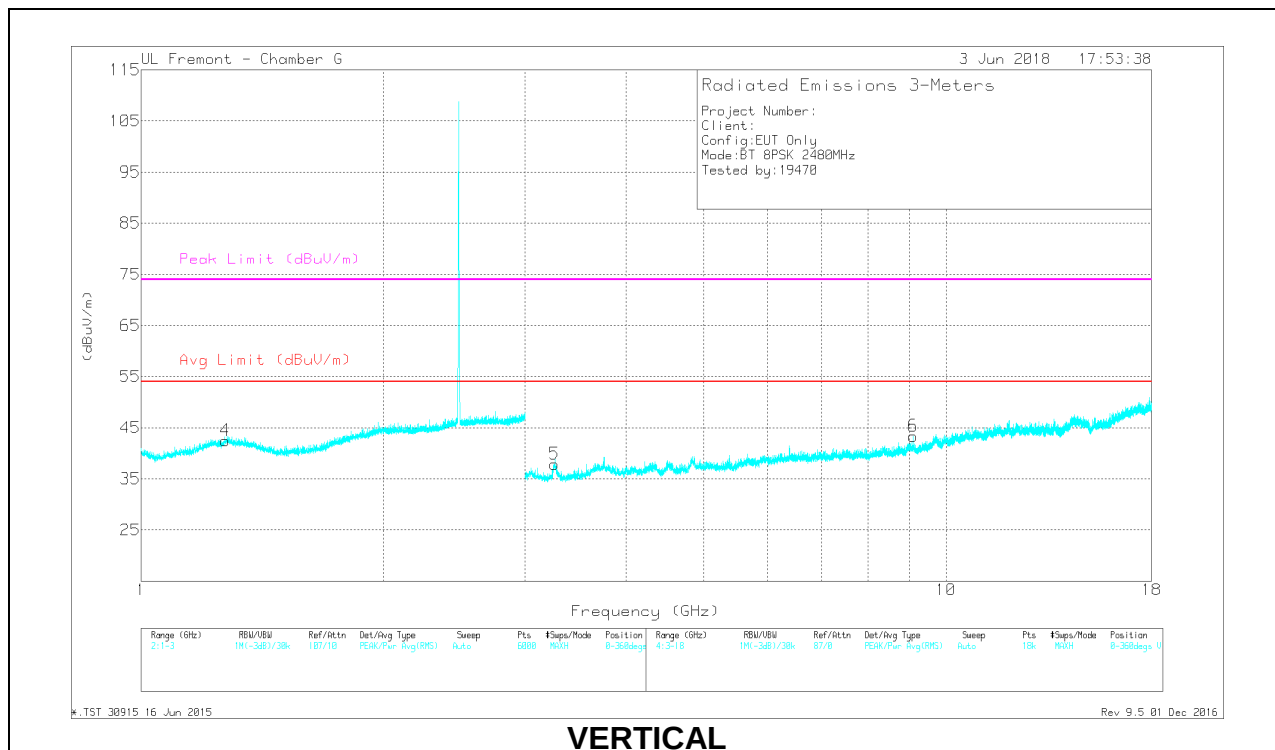
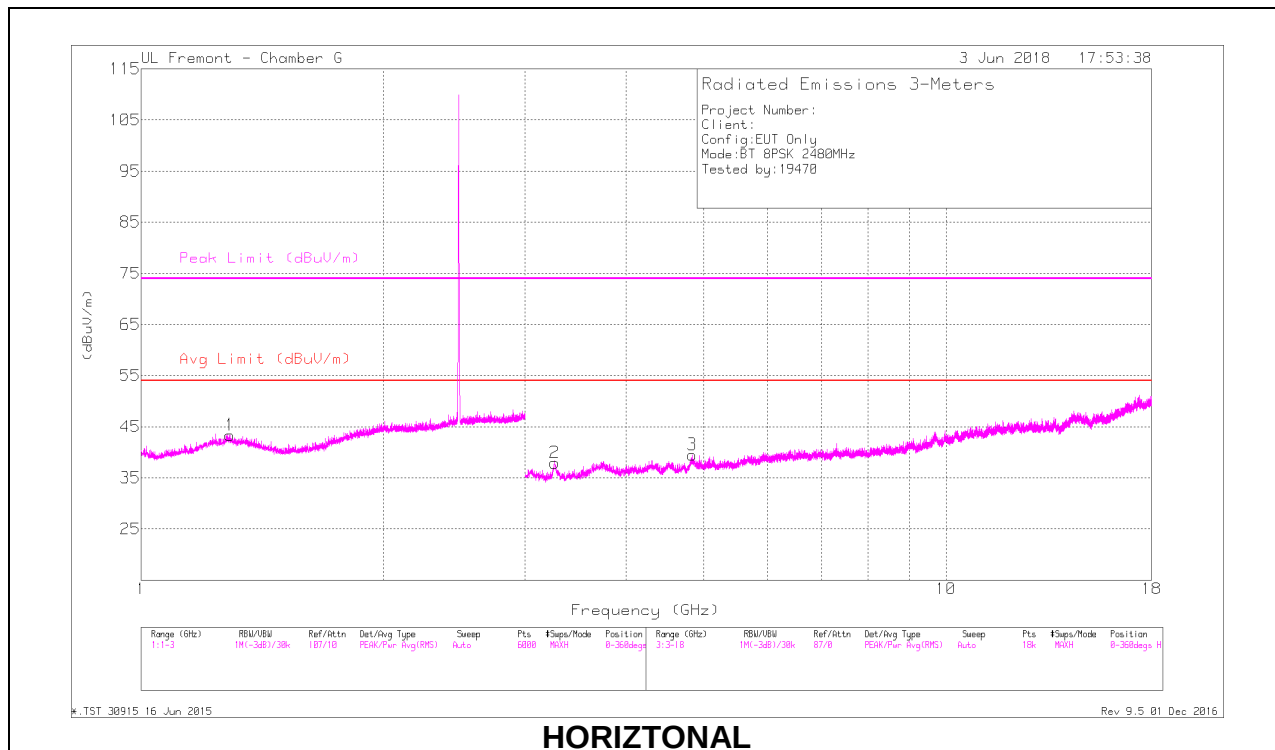
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.285	40.93	PKFH	31.8	-22.5	50.23	-	-	74	-23.77	279	310	H
	* 2.287	29.6	VA1T	31.8	-22.5	38.9	54	-15.1	-	-	279	310	H
2	* 1.268	44.38	PKFH	30	-23.9	50.48	-	-	74	-23.52	174	170	V
	* 1.285	30.95	VA1T	30.2	-23.9	37.25	54	-16.75	-	-	174	170	V
3	* 1.349	42.64	PKFH	29.7	-23.7	48.64	-	-	74	-25.36	108	130	V
	* 1.35	30.34	VA1T	29.7	-23.7	36.34	54	-17.66	-	-	108	130	V
4	* 4.867	39.77	PKFH	34.2	-29.8	44.17	-	-	74	-29.83	280	226	H
	* 4.867	27.81	VA1T	34.2	-29.8	32.21	54	-21.79	-	-	280	226	H
5	* 11.626	35.62	PKFH	38.8	-22.7	51.72	-	-	74	-22.28	160	308	H
	* 11.628	23.27	VA1T	38.8	-22.7	39.37	54	-14.63	-	-	160	308	H
6	* 7.26	37.52	PKFH	35.5	-27.2	45.82	-	-	74	-28.18	168	287	V
	* 7.259	26.27	VA1T	35.5	-27.2	34.57	54	-19.43	-	-	168	287	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



RADIATED EMISSIONS

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.29	43.37	PKFH	30.2	-23.9	49.67	-	-	74	-24.33	143	222	H
	* 1.289	30.7	VA1T	30.2	-23.9	37	54	-17	-	-	143	222	H
4	* 1.271	42.64	PKFH	30.1	-23.9	48.84	-	-	74	-25.16	304	176	V
	* 1.274	30.77	VA1T	30.3	-23.9	37.17	54	-16.83	-	-	304	176	V
2	* 3.265	40.23	PKFH	35.5	-30.6	45.13	-	-	74	-28.87	61	282	H
	* 3.263	28.35	VA1T	35.5	-30.6	33.25	54	-20.75	-	-	61	282	H
3	* 4.838	40.36	PKFH	34.3	-29.8	44.86	-	-	74	-29.14	133	366	H
	* 4.835	28.38	VA1T	34.3	-29.8	32.88	54	-21.12	-	-	133	366	H
5	* 3.263	39.72	PKFH	35.5	-30.6	44.62	-	-	74	-29.38	304	197	V
	* 3.26	28.03	VA1T	35.3	-30.7	32.63	54	-21.37	-	-	304	197	V
6	* 9.101	36.8	PKFH	36.2	-25.5	47.5	-	-	74	-26.5	209	215	V
	* 9.101	25	VA1T	36.2	-25.5	35.7	54	-18.3	-	-	209	215	V

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

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

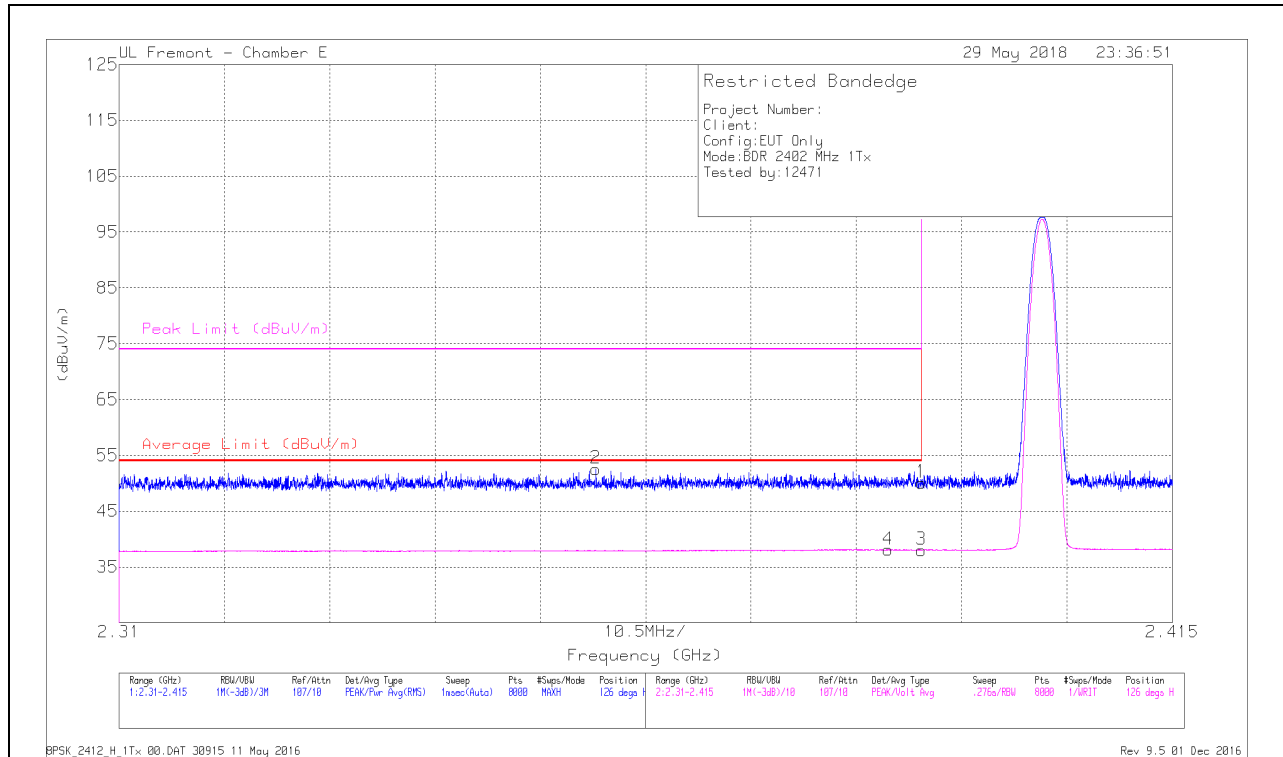
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.1.3. LOW POWER BASIC DATA RATE GFSK MODULATION

Antenna 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



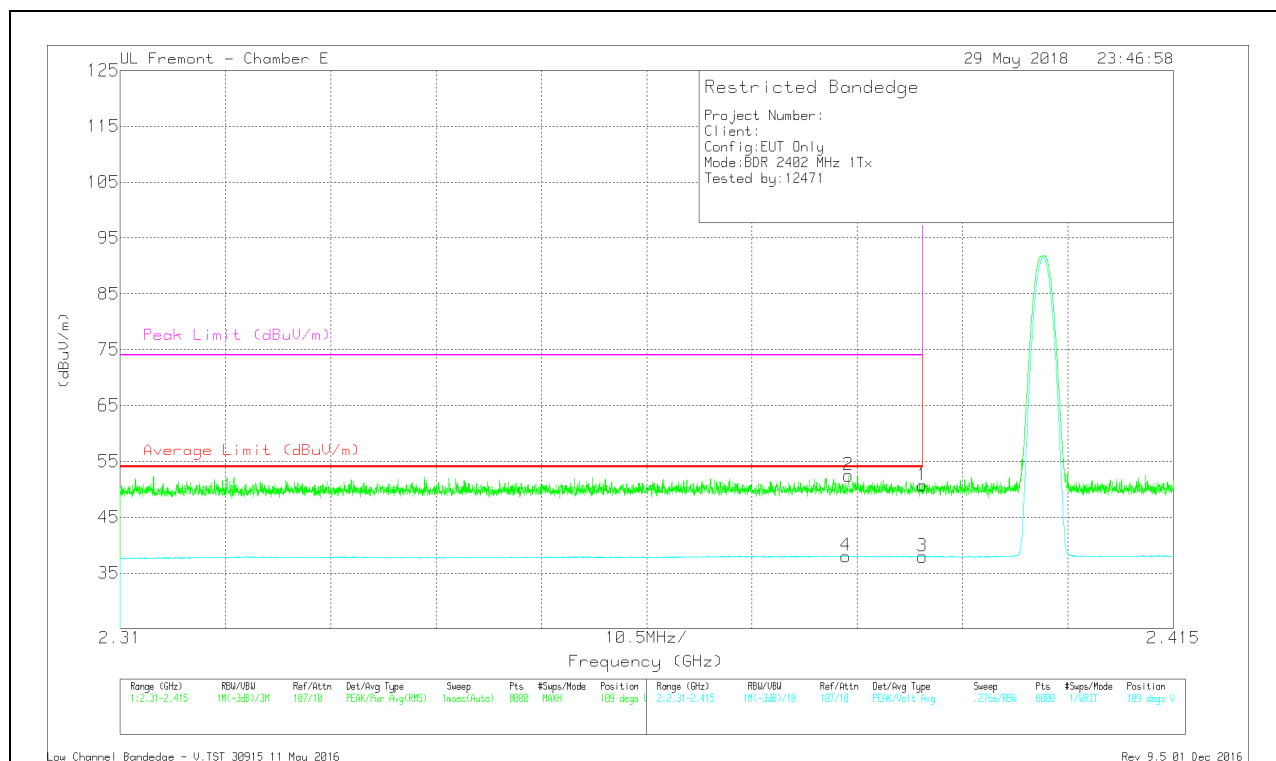
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.71	Pk	32	-22.6	50.11	-	-	74	-23.89	126	125	H
2	* 2.358	43.39	Pk	31.9	-22.7	52.59	-	-	74	-21.41	126	125	H
3	* 2.39	28.64	VA1T	32	-22.6	38.04	54	-15.96	-	-	126	125	H
4	* 2.387	28.81	VA1T	31.9	-22.6	38.11	54	-15.89	-	-	126	125	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

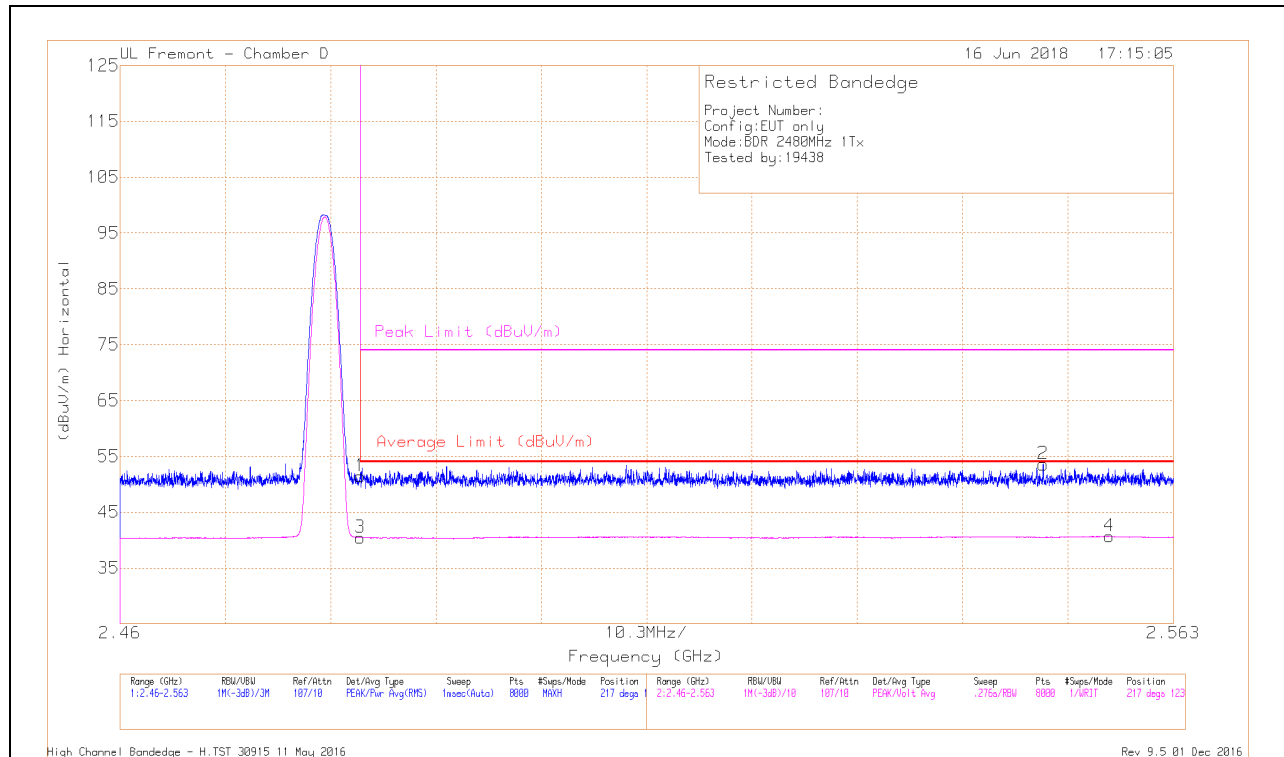


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Ampl/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.382	28.75	VA1T	31.9	-22.6	38.05	54	-15.95	-	-	109	254	V
2	* 2.383	43.17	Pk	31.9	-22.6	52.47	-	-	74	-21.53	109	254	V
1	* 2.39	41.29	Pk	32	-22.6	50.69	-	-	74	-23.31	109	254	V
3	* 2.39	28.54	VA1T	32	-22.6	37.94	54	-16.06	-	-	109	254	V

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

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

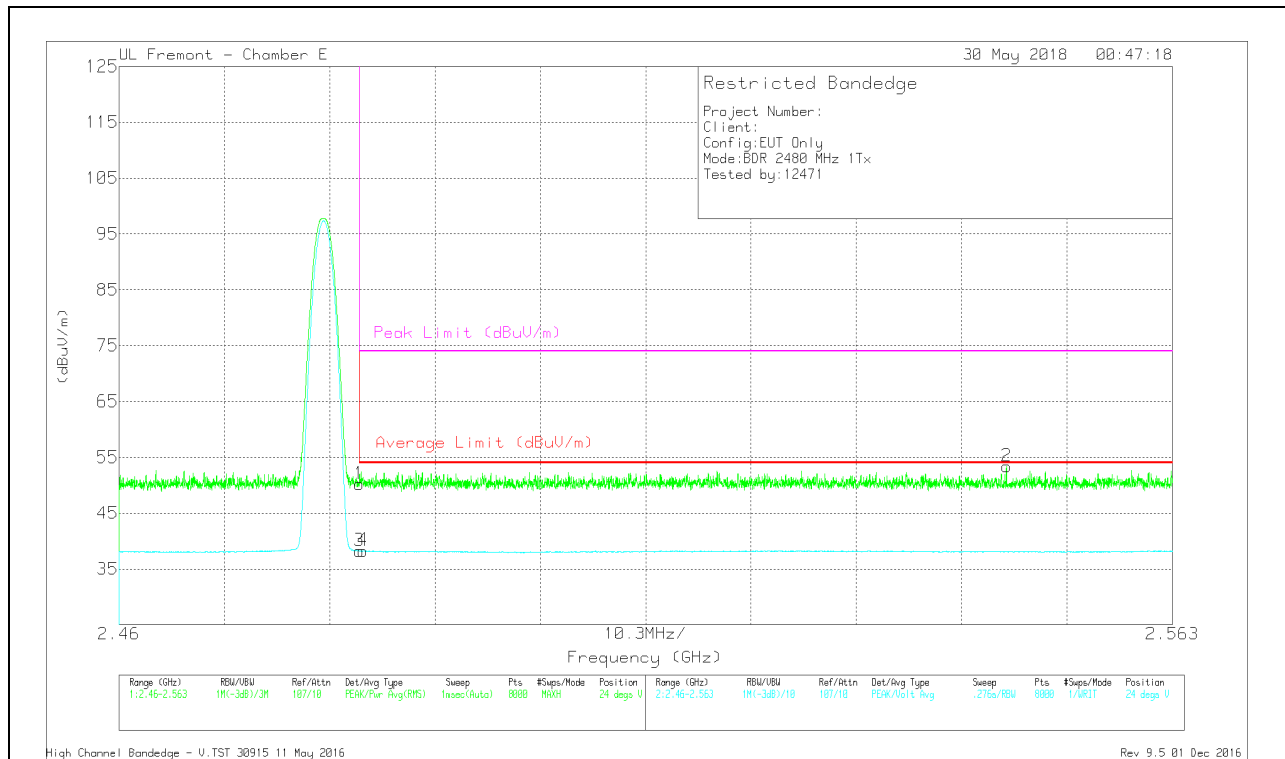
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.41	Pk	32.4	-20.4	51.41	-	-	74	-22.59	217	123	H
3	* 2.484	28.44	VA1T	32.4	-20.4	40.44	54	-13.56	-	-	217	123	H
2	2.55	41.58	Pk	32.4	-20.4	53.58	-	-	74	-20.42	217	123	H
4	2.557	28.38	VA1T	32.5	-20.2	40.68	54	-13.32	-	-	217	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

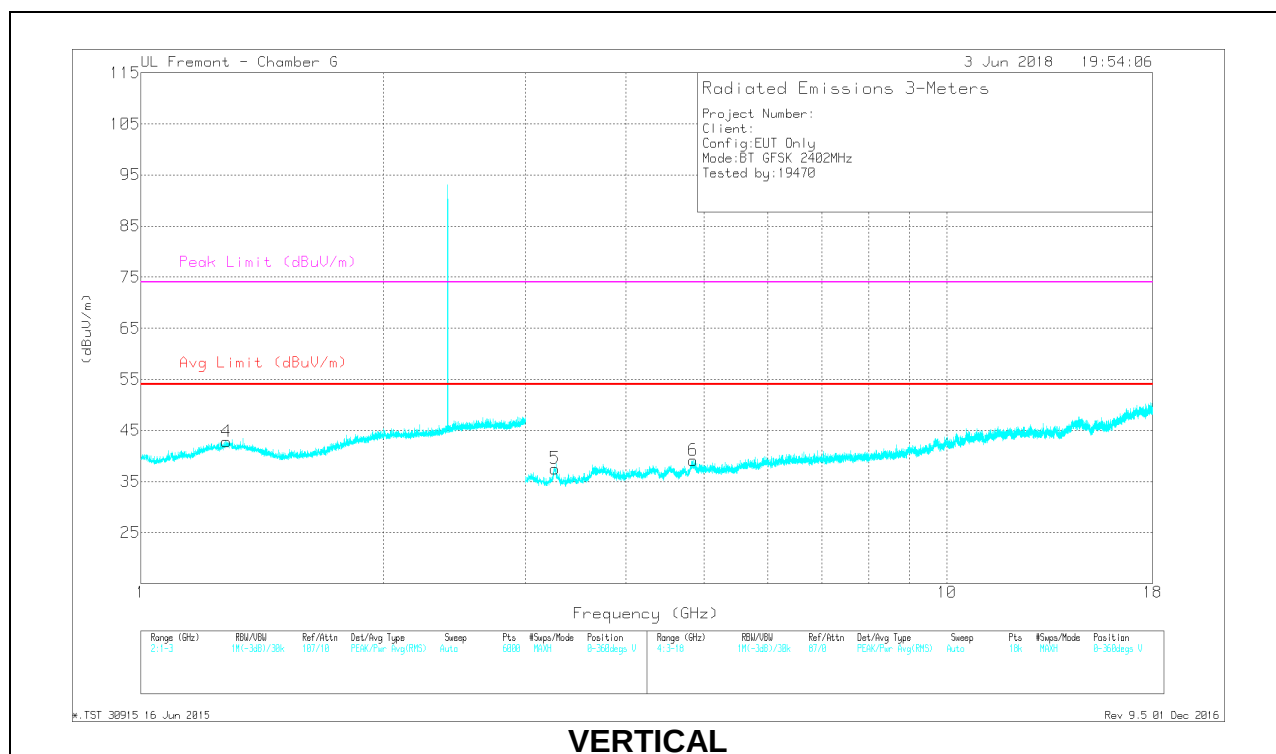
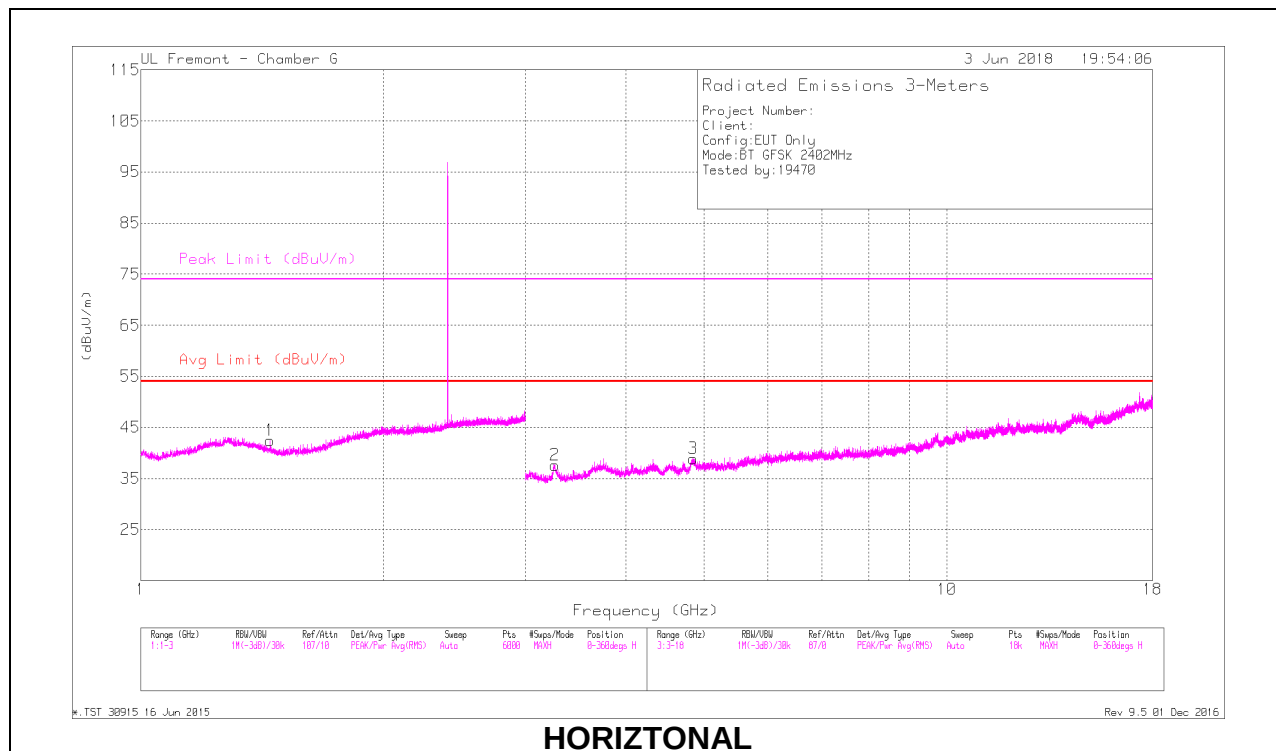


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.4	Pk	32.1	-22.3	50.2	-	-	74	-23.8	24	381	V
3	* 2.484	28.44	VA1T	32.1	-22.3	38.24	54	-15.76	-	-	24	381	V
4	* 2.484	28.46	VA1T	32.1	-22.3	38.26	54	-15.74	-	-	24	381	V
2	2.547	43.57	Pk	32.1	-22.3	53.37	-	-	74	-20.63	24	381	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**

RADIATED EMISSIONS

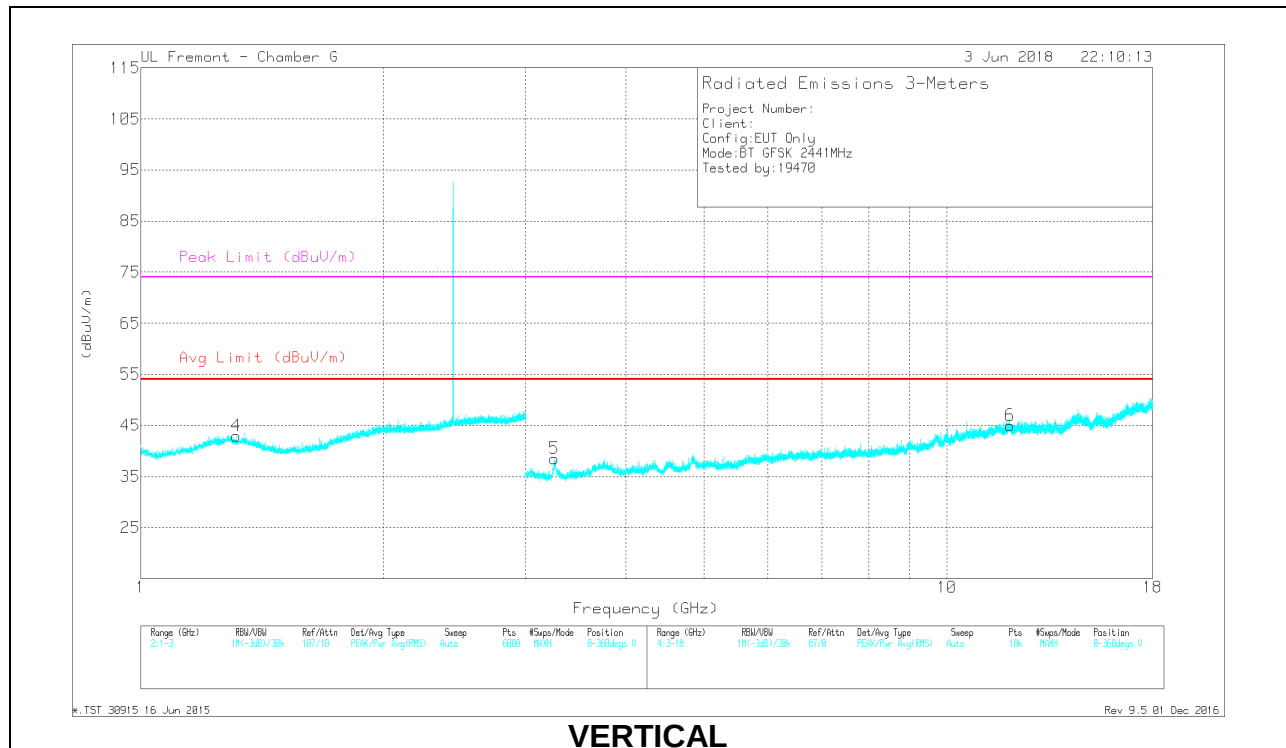
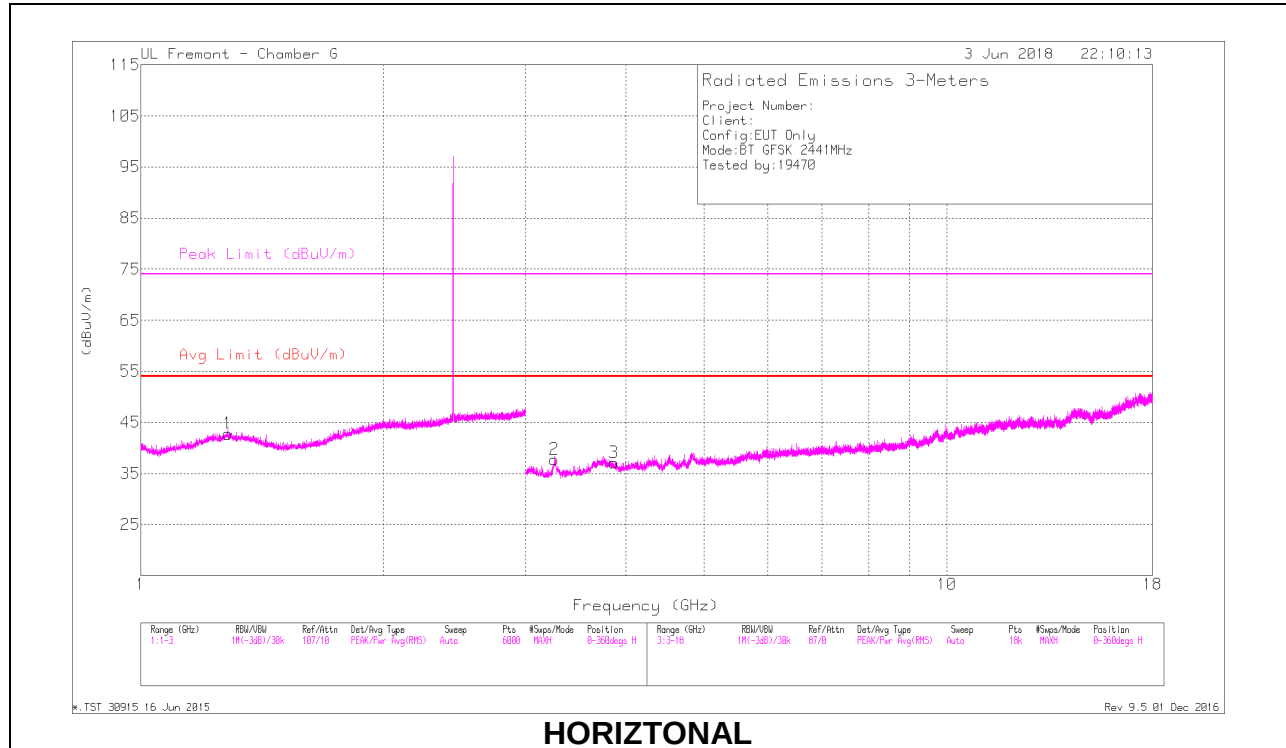
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.445	43.7	PKFH	28.4	-23.4	48.7	-	-	74	-25.3	47	315	H
	* 1.447	30.4	VA1T	28.3	-23.4	35.3	54	-18.7	-	-	47	315	H
4	* 1.277	42.69	PKFH	30.4	-23.9	49.19	-	-	74	-24.81	102	204	V
	* 1.278	30.71	VA1T	30.4	-23.9	37.21	54	-16.79	-	-	102	204	V
2	* 3.261	40.71	PKFH	35.4	-30.7	45.41	-	-	74	-28.59	269	384	H
	* 3.26	28.05	VA1T	35.3	-30.7	32.65	54	-21.35	-	-	269	384	H
3	* 4.847	39.41	PKFH	34.3	-29.9	43.81	-	-	74	-30.19	165	158	H
	* 4.846	27.85	VA1T	34.3	-29.9	32.25	54	-21.75	-	-	165	158	H
5	* 3.26	40.04	PKFH	35.3	-30.7	44.64	-	-	74	-29.36	202	391	V
	* 3.26	28.53	VA1T	35.3	-30.7	33.13	54	-20.87	-	-	202	391	V
6	* 4.849	39.36	PKFH	34.3	-29.9	43.76	-	-	74	-30.24	29	309	V
	* 4.848	28	VA1T	34.3	-29.9	32.4	54	-21.6	-	-	29	309	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



RADIATED EMISSIONS

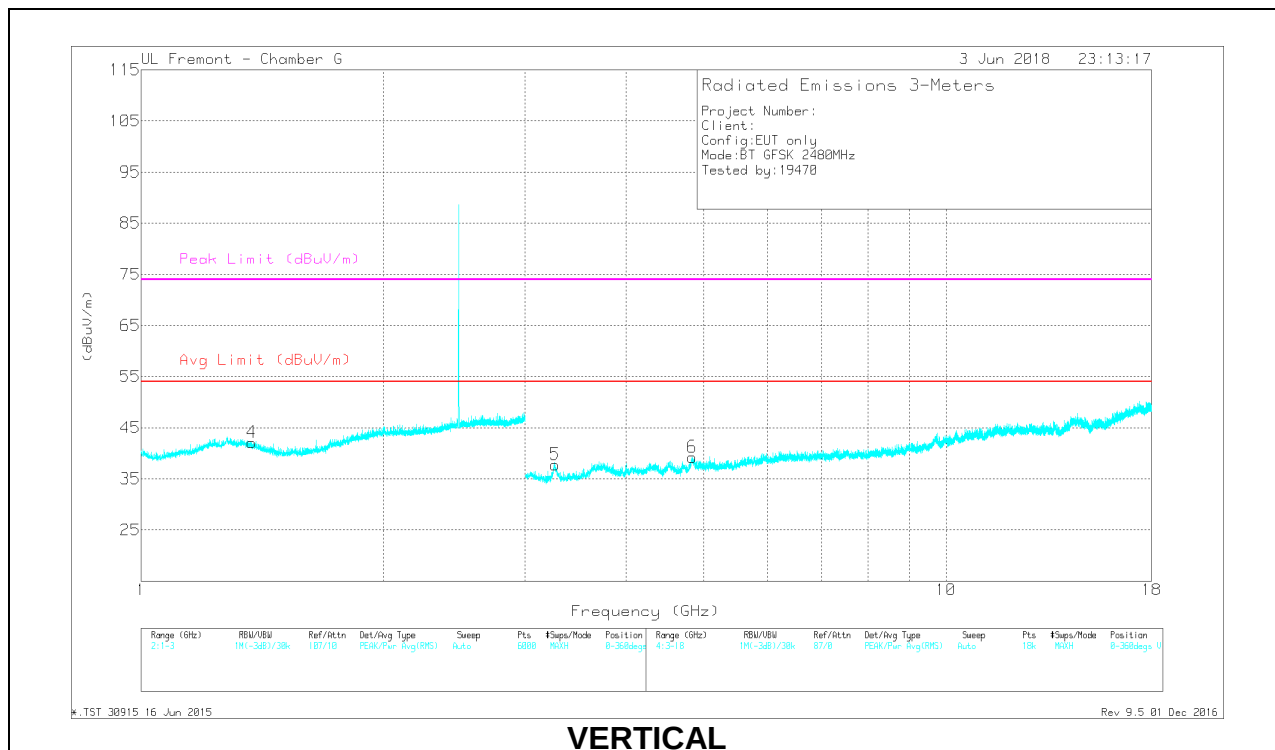
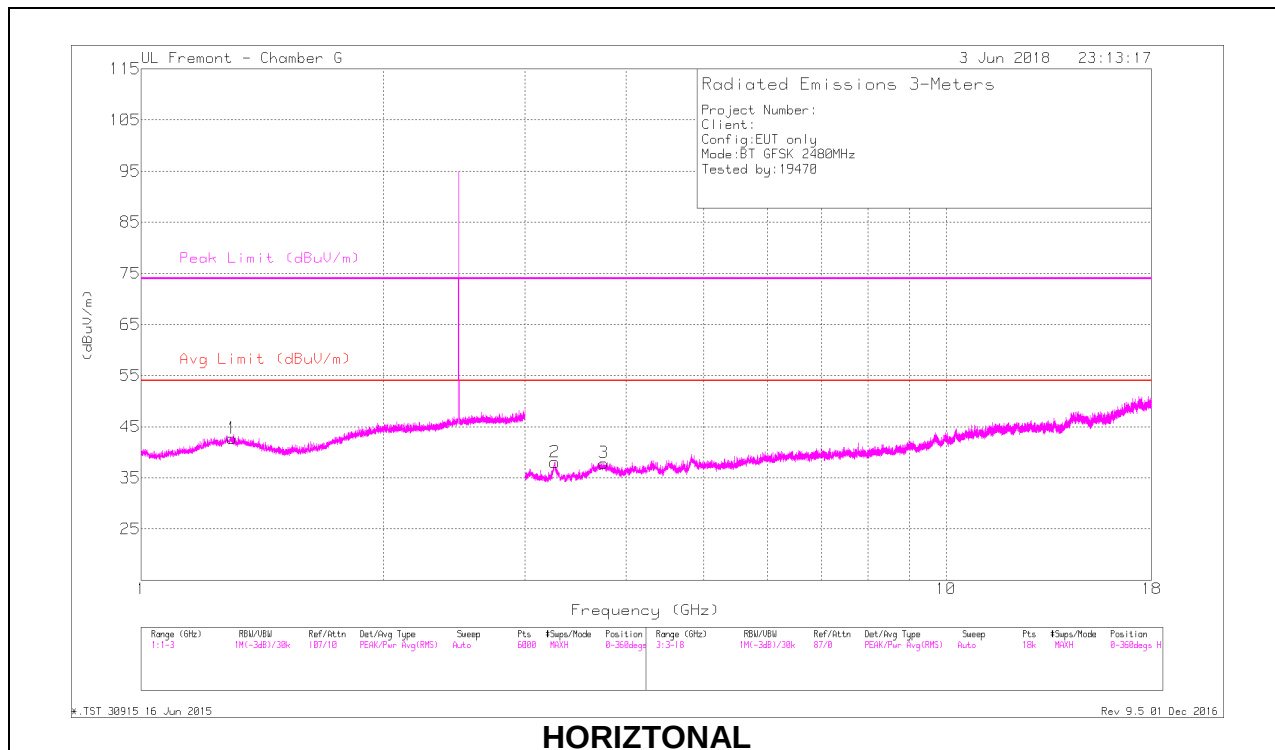
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.282	43.23	PKFH	30.3	-23.9	49.63	-	-	74	-24.37	318	220	H
	* 1.281	30.9	VA1T	30.3	-23.9	37.3	54	-16.7	-	-	318	220	H
4	* 1.313	42.93	PKFH	29.8	-23.8	48.93	-	-	74	-25.07	111	170	V
	* 1.313	30.71	VA1T	29.8	-23.8	36.71	54	-17.29	-	-	111	170	V
2	* 3.267	39.74	PKFH	35.4	-30.6	44.54	-	-	74	-29.46	138	315	H
	* 3.26	27.99	VA1T	35.3	-30.7	32.59	54	-21.41	-	-	138	315	H
3	* 3.864	39.72	PKFH	33.8	-30.7	42.82	-	-	74	-31.18	291	317	H
	* 3.864	28.1	VA1T	33.8	-30.7	31.2	54	-22.8	-	-	291	317	H
5	* 3.262	39.73	PKFH	35.4	-30.7	44.43	-	-	74	-29.57	246	202	V
	* 3.26	28.38	VA1T	35.3	-30.7	32.98	54	-21.02	-	-	246	202	V
6	* 11.98	34.29	PKFH	39	-22.6	50.69	-	-	74	-23.31	349	104	V
	* 11.979	22.97	VA1T	39	-22.5	39.47	54	-14.53	-	-	349	104	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



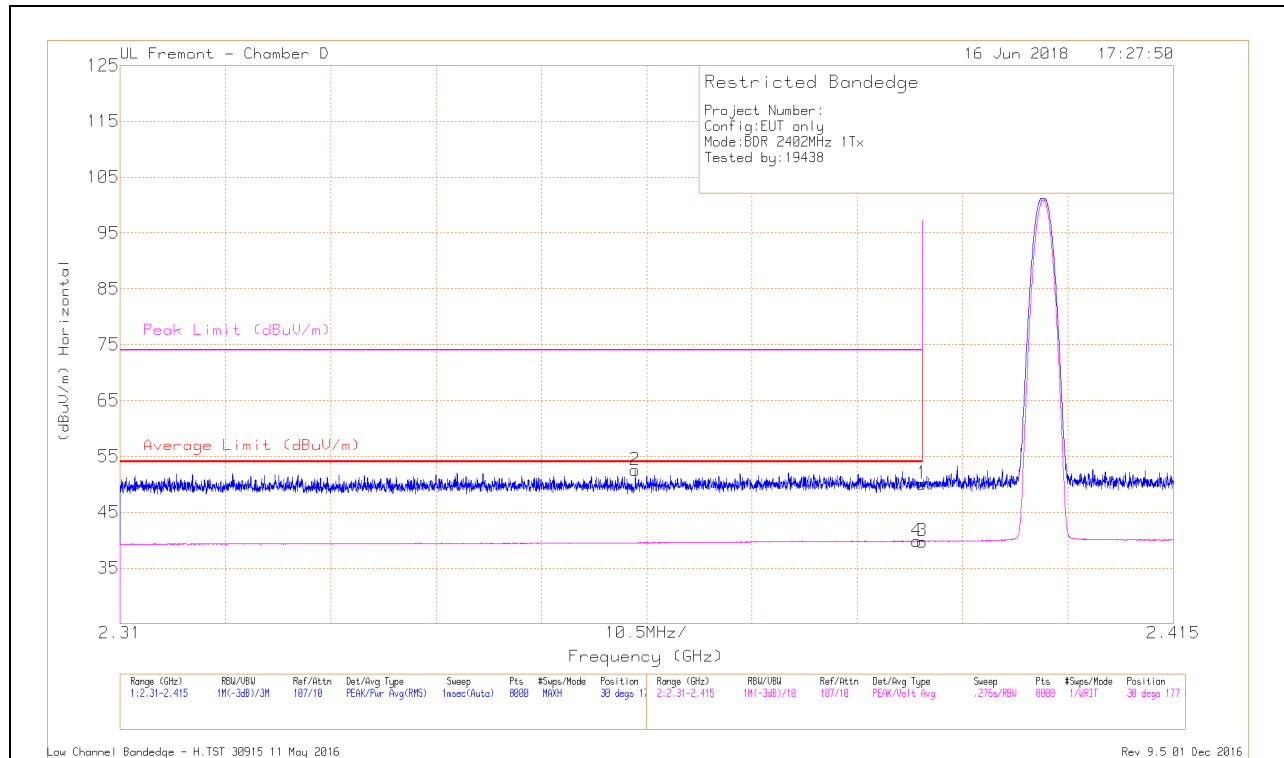
RADIATED EMISSIONS

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.298	42.18	PKFH	29.9	-23.8	48.28	-	-	74	-25.72	224	383	H
	* 1.296	30.57	VA1T	30.1	-23.8	36.87	54	-17.13	-	-	224	383	H
4	* 1.373	42.2	PKFH	29.5	-23.6	48.1	-	-	74	-25.9	173	174	V
	* 1.372	30.33	VA1T	29.5	-23.6	36.23	54	-17.77	-	-	173	174	V
2	* 3.263	39.78	PKFH	35.5	-30.6	44.68	-	-	74	-29.32	180	187	H
	* 3.261	27.77	VA1T	35.4	-30.7	32.47	54	-21.53	-	-	180	187	H
3	* 3.755	38.98	PKFH	33.9	-29.4	43.48	-	-	74	-30.52	43	102	H
	* 3.756	27.06	VA1T	33.9	-29.4	31.56	54	-22.44	-	-	43	102	H
5	* 3.267	39.93	PKFH	35.4	-30.6	44.73	-	-	74	-29.27	299	209	V
	* 3.26	27.94	VA1T	35.3	-30.7	32.54	54	-21.46	-	-	299	209	V
6	* 4.837	39.94	PKFH	34.3	-29.8	44.44	-	-	74	-29.56	36	201	V
	* 4.835	28.1	VA1T	34.3	-29.8	32.6	54	-21.4	-	-	36	201	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 5**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Ampl/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	* 2.361	41.4	Pk	31.7	-20.6	52.5	-	-	74	-21.5	30	177	H
4	* 2.389	28.41	VA1T	31.9	-20.5	39.81	54	-14.19	-	-	30	177	H
1	* 2.39	38.7	Pk	31.9	-20.5	50.1	-	-	74	-23.9	30	177	H
3	* 2.39	28.35	VA1T	31.9	-20.5	39.75	54	-14.25	-	-	30	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

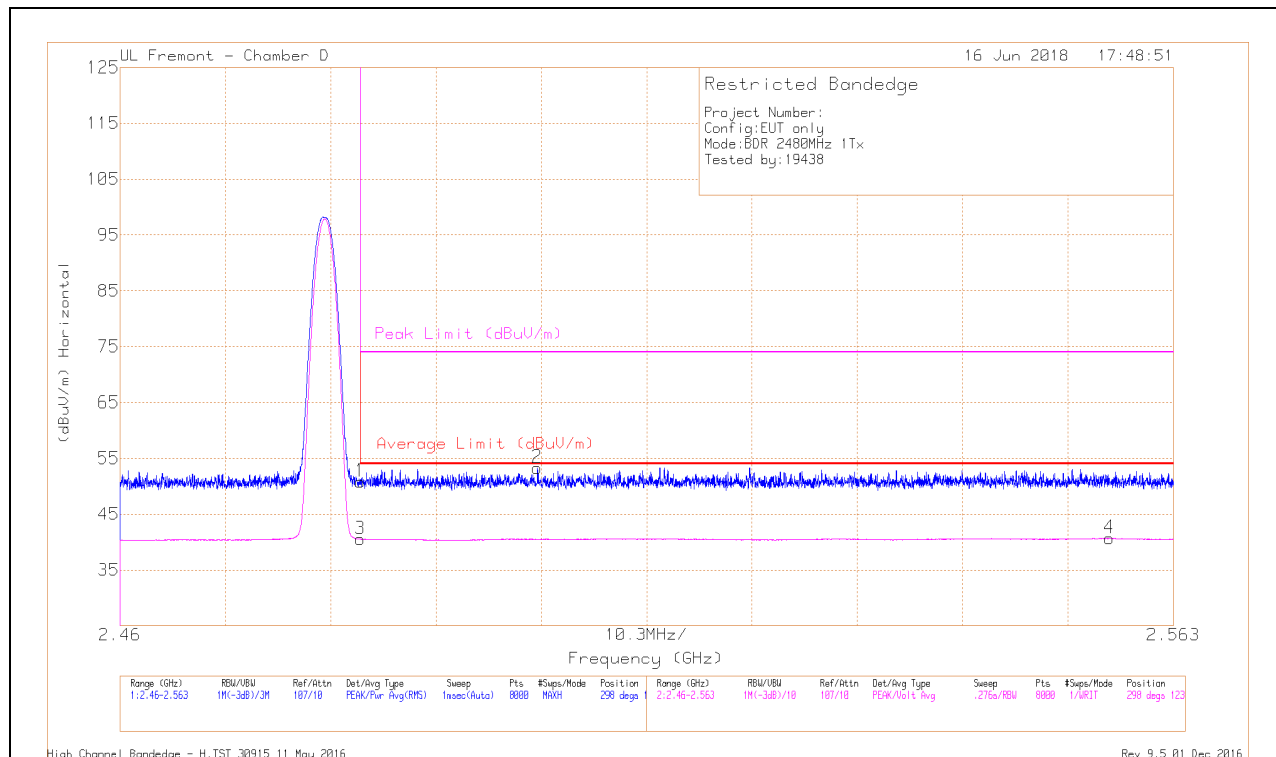


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.389	41.01	Pk	31.9	-20.5	52.41	-	-	74	-21.59	79	121	V
1	* 2.39	39.87	Pk	31.9	-20.5	51.27	-	-	74	-22.73	79	121	V
3	* 2.39	28.35	VA1T	31.9	-20.5	39.75	54	-14.25	-	-	79	121	V
4	* 2.39	28.41	VA1T	31.9	-20.5	39.81	54	-14.19	-	-	79	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**

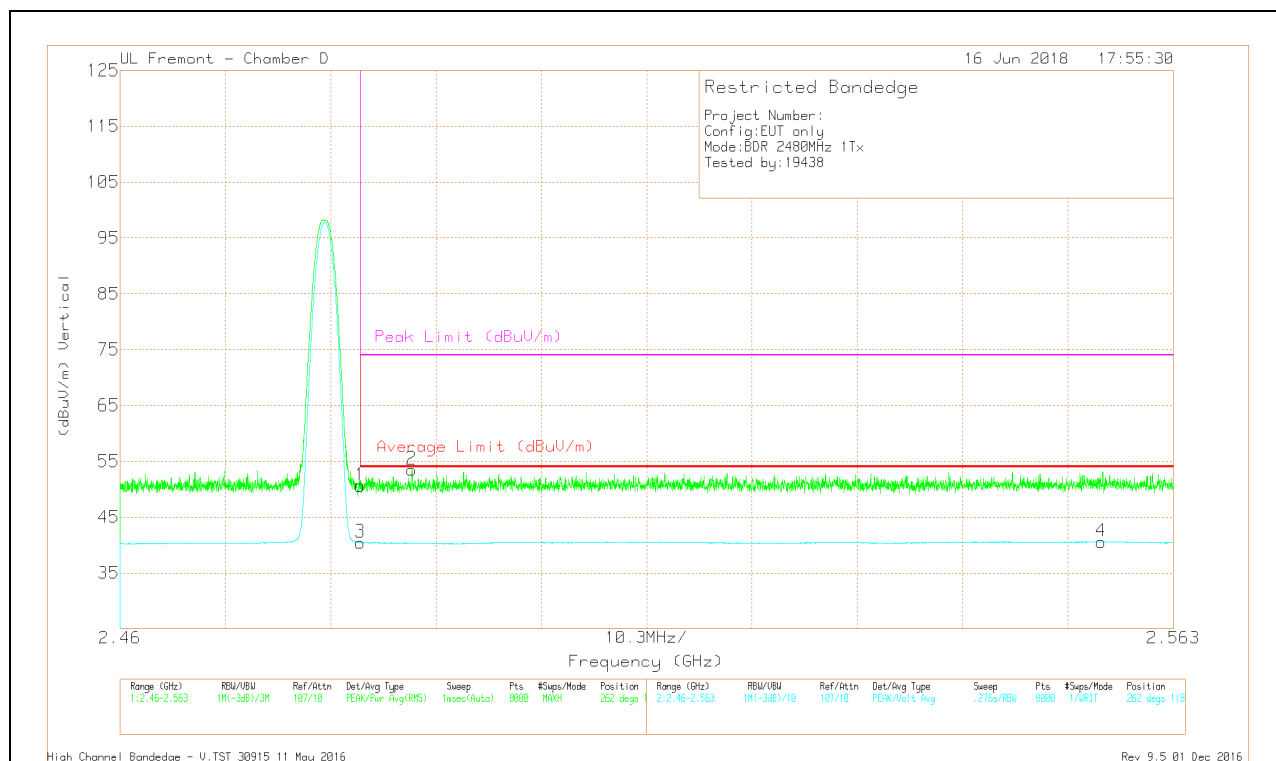
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.84	Pk	32.4	-20.4	50.84	-	-	74	-23.16	298	123	H
3	* 2.484	28.53	VA1T	32.4	-20.4	40.53	54	-13.47	-	-	298	123	H
2	2.501	41.29	Pk	32.4	-20.4	53.29	-	-	74	-20.71	298	123	H
4	2.557	28.4	VA1T	32.5	-20.2	40.7	54	-13.3	-	-	298	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

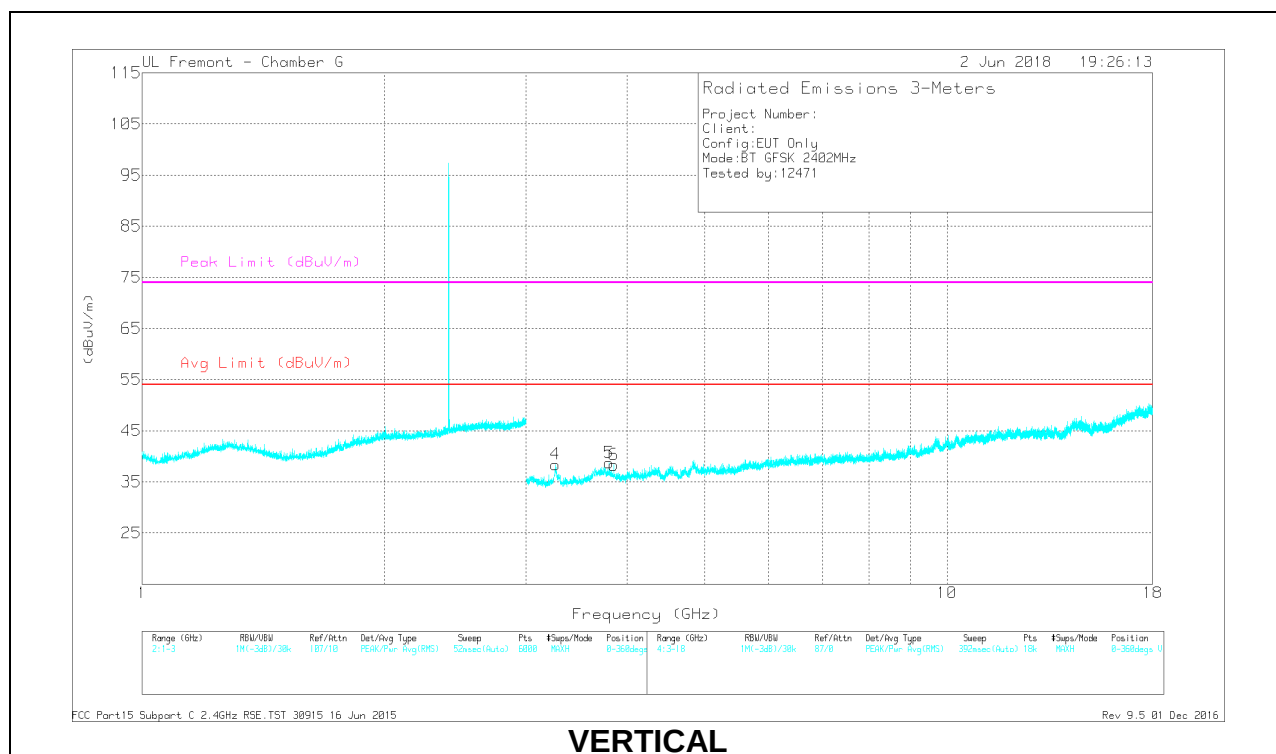
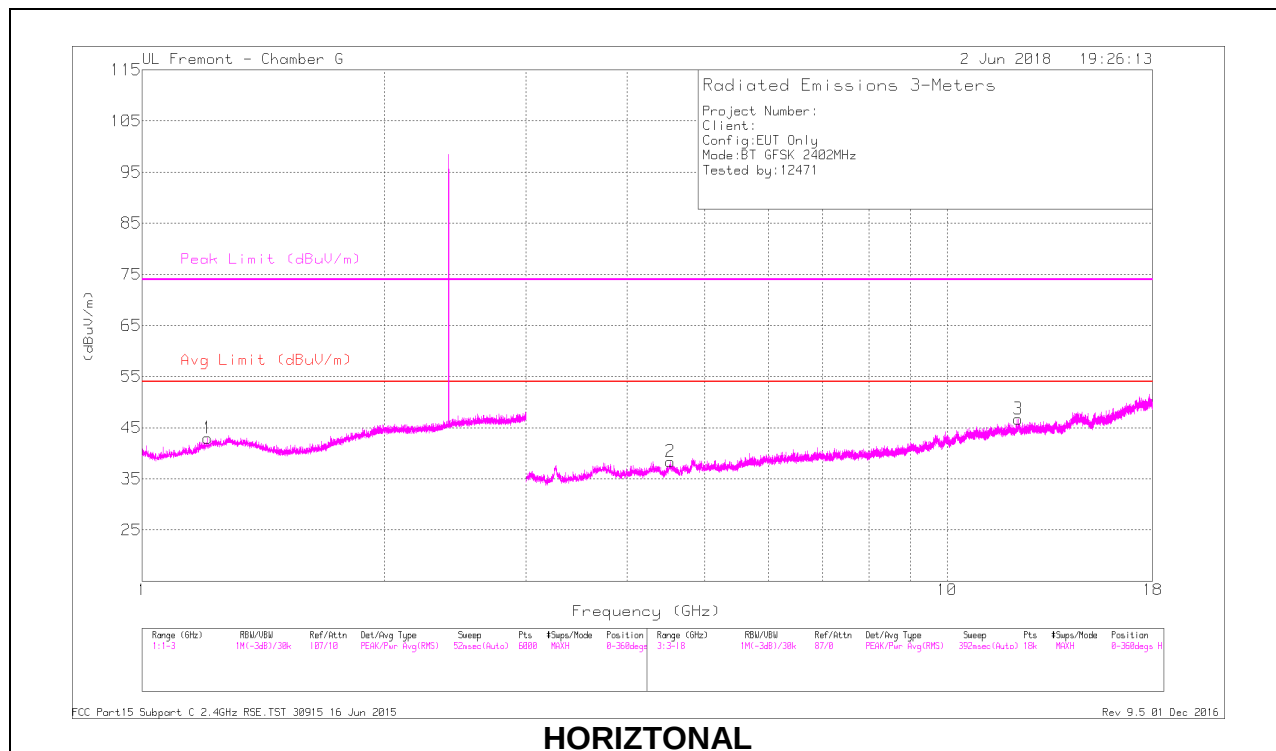


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.64	Pk	32.4	-20.4	50.64	-	-	74	-23.36	262	118	V
3	* 2.484	28.48	VA1T	32.4	-20.4	40.48	54	-13.52	-	-	262	118	V
2	* 2.489	41.65	Pk	32.4	-20.5	53.55	-	-	74	-20.45	262	118	V
4	2.556	28.41	VA1T	32.5	-20.3	40.61	54	-13.39	-	-	262	118	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**

RADIATED EMISSIONS

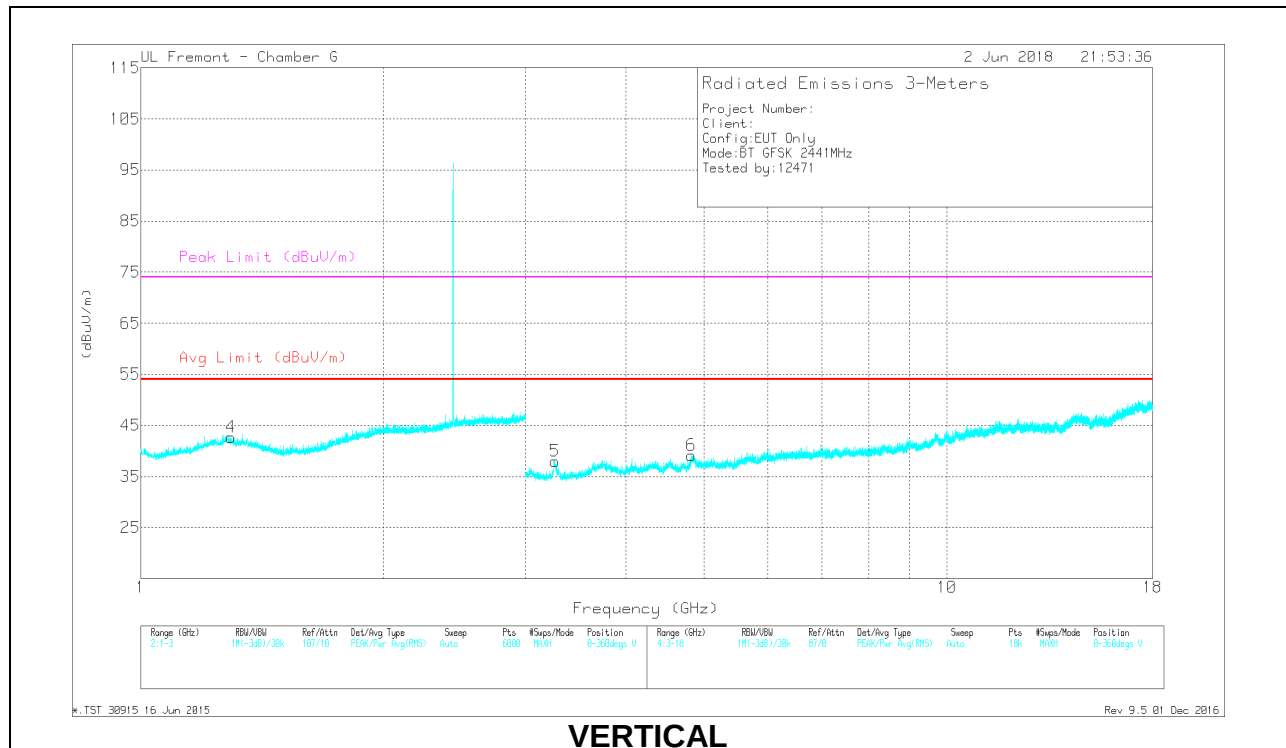
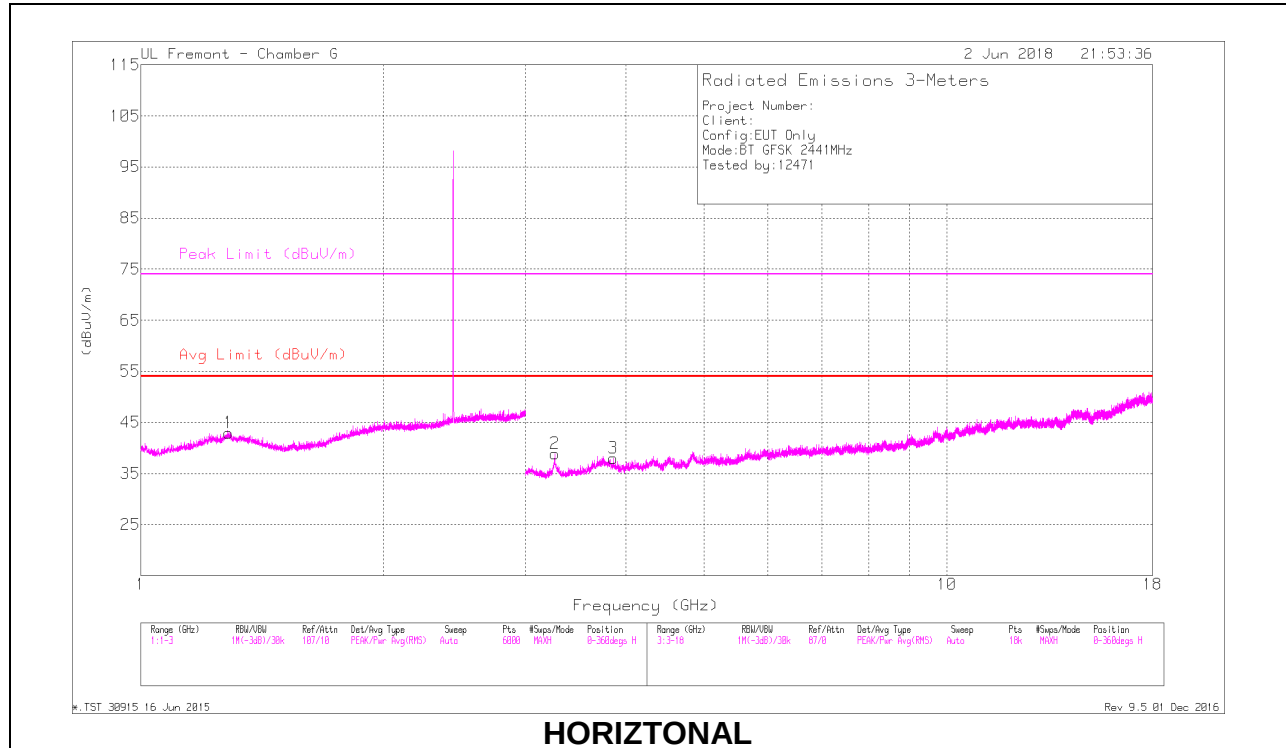
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.207	42.81	PKFH	29.4	-23.9	48.31	-	-	74	-25.69	79	206	H
	* 1.206	30.78	VA1T	29.4	-23.9	36.28	54	-17.72	-	-	79	206	H
2	* 4.529	40.21	PKFH	34.4	-30.1	44.51	-	-	74	-29.49	74	271	H
	* 4.53	28.05	VA1T	34.4	-30.1	32.35	54	-21.65	-	-	74	271	H
3	* 12.262	35.7	PKFH	39	-22.7	52	-	-	74	-22	312	105	H
	* 12.264	23.64	VA1T	39.1	-22.7	40.04	54	-13.96	-	-	312	105	H
4	* 3.262	40.95	PKFH	35.4	-30.7	45.65	-	-	74	-28.35	60	321	V
	* 3.262	28.11	VA1T	35.4	-30.7	32.81	54	-21.19	-	-	60	321	V
5	* 3.801	40.61	PKFH	34	-30	44.61	-	-	74	-29.39	61	343	V
	* 3.803	27.92	VA1T	34	-30	31.92	54	-22.08	-	-	61	343	V
6	* 3.857	40.61	PKFH	33.9	-30.8	43.71	-	-	74	-30.29	42	162	V
	* 3.859	28.32	VA1T	33.9	-30.8	31.42	54	-22.58	-	-	42	162	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



RADIATED EMISSIONS

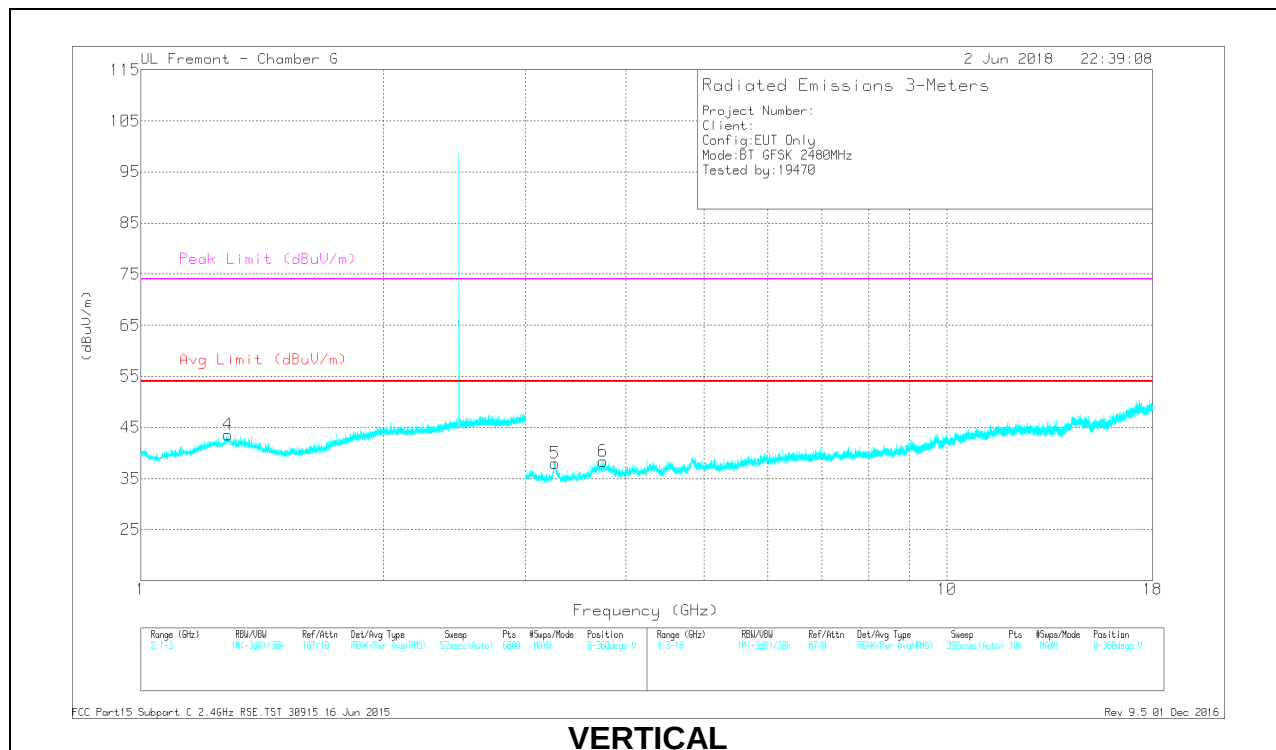
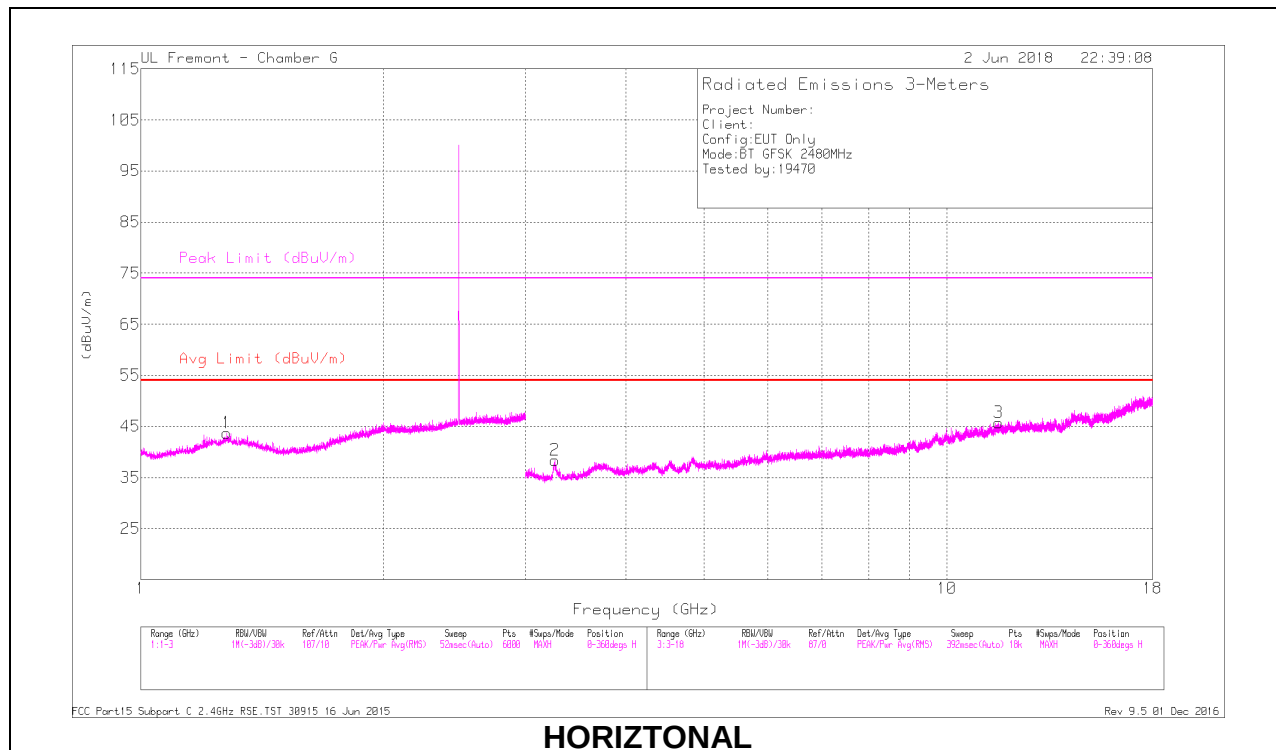
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.284	43.59	PKFH	30.2	-23.9	49.89	-	-	74	-24.11	165	390	H
	* 1.285	30.85	VA1T	30.2	-23.9	37.15	54	-16.85	-	-	165	390	H
4	* 1.291	42.99	PKFH	30.2	-23.8	49.39	-	-	74	-24.61	29	328	V
	* 1.292	30.75	VA1T	30.2	-23.8	37.15	54	-16.85	-	-	29	328	V
2	* 3.261	41.16	PKFH	35.4	-30.7	45.86	-	-	74	-28.14	148	354	H
	* 3.261	28.25	VA1T	35.4	-30.7	32.95	54	-21.05	-	-	148	354	H
3	* 3.859	40.15	PKFH	33.9	-30.8	43.25	-	-	74	-30.75	217	181	H
	* 3.859	28.34	VA1T	33.9	-30.7	31.54	54	-22.46	-	-	217	181	H
5	* 3.261	41.36	PKFH	35.4	-30.7	46.06	-	-	74	-27.94	129	311	V
	* 3.261	28.24	VA1T	35.4	-30.7	32.94	54	-21.06	-	-	129	311	V
6	* 4.821	39.63	PKFH	34.3	-29.8	44.13	-	-	74	-29.87	248	164	V
	* 4.822	28.13	VA1T	34.3	-29.7	32.73	54	-21.27	-	-	248	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

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.276	42.72	PKFH	30.3	-23.9	49.12	-	-	74	-24.88	16	172	H
	* 1.279	30.86	VA1T	30.4	-23.9	37.36	54	-16.64	-	-	16	172	H
4	* 1.282	42.67	PKFH	30.3	-23.9	49.07	-	-	74	-24.93	37	229	V
	* 1.284	31.01	VA1T	30.2	-23.9	37.31	54	-16.69	-	-	37	229	V
2	* 3.261	39.93	PKFH	35.4	-30.7	44.63	-	-	74	-29.37	198	313	H
	* 3.26	28.43	VA1T	35.3	-30.7	33.03	54	-20.97	-	-	198	313	H
3	* 11.598	35.63	PKFH	38.8	-22.7	51.73	-	-	74	-22.27	0	196	H
	* 11.595	23.45	VA1T	38.8	-22.7	39.55	54	-14.45	-	-	0	196	H
5	* 3.262	39.74	PKFH	35.5	-30.7	44.54	-	-	74	-29.46	330	312	V
	* 3.261	28.23	VA1T	35.4	-30.7	32.93	54	-21.07	-	-	330	312	V
6	* 3.745	39.49	PKFH	33.9	-29.2	44.19	-	-	74	-29.81	49	275	V
	* 3.749	27.8	VA1T	33.9	-29.3	32.4	54	-21.6	-	-	49	275	V

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

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

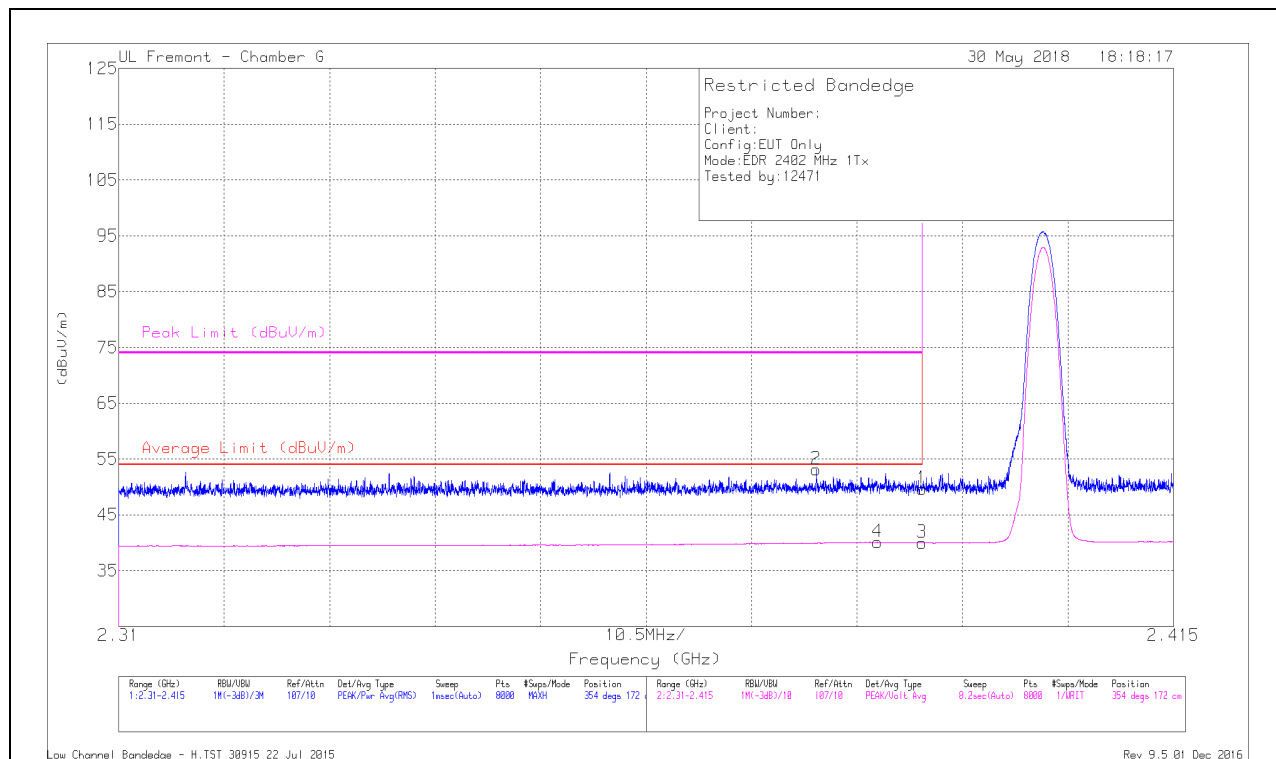
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.1.4. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

Antenna 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



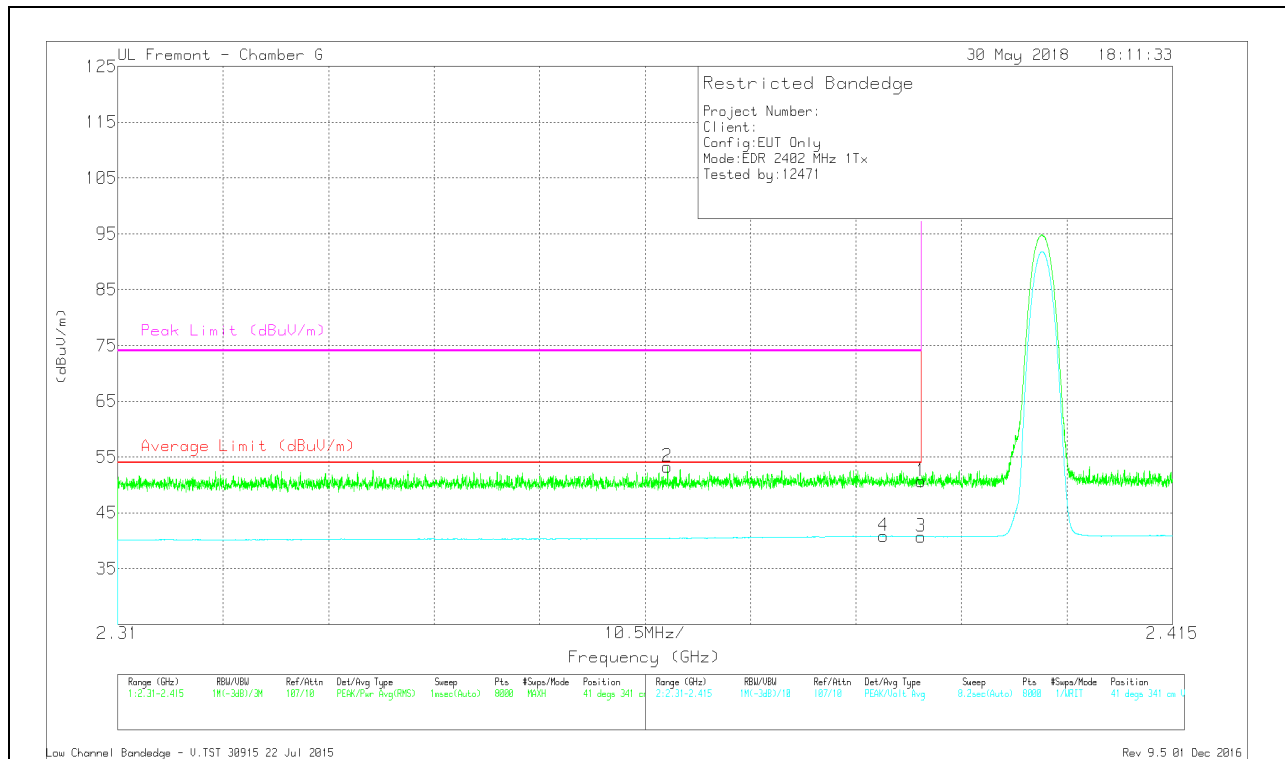
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.87	Pk	32.1	-22.3	49.67	-	-	74	-24.33	354	172	H
2	* 2.379	43.37	Pk	32.1	-22.3	53.17	-	-	74	-20.83	354	172	H
3	* 2.39	30.17	VA1T	32.1	-22.3	39.97	54	-14.03	-	-34.03	354	172	H
4	* 2.386	30.07	VA1T	32.2	-22.2	40.07	54	-13.93	-	-33.93	354	172	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

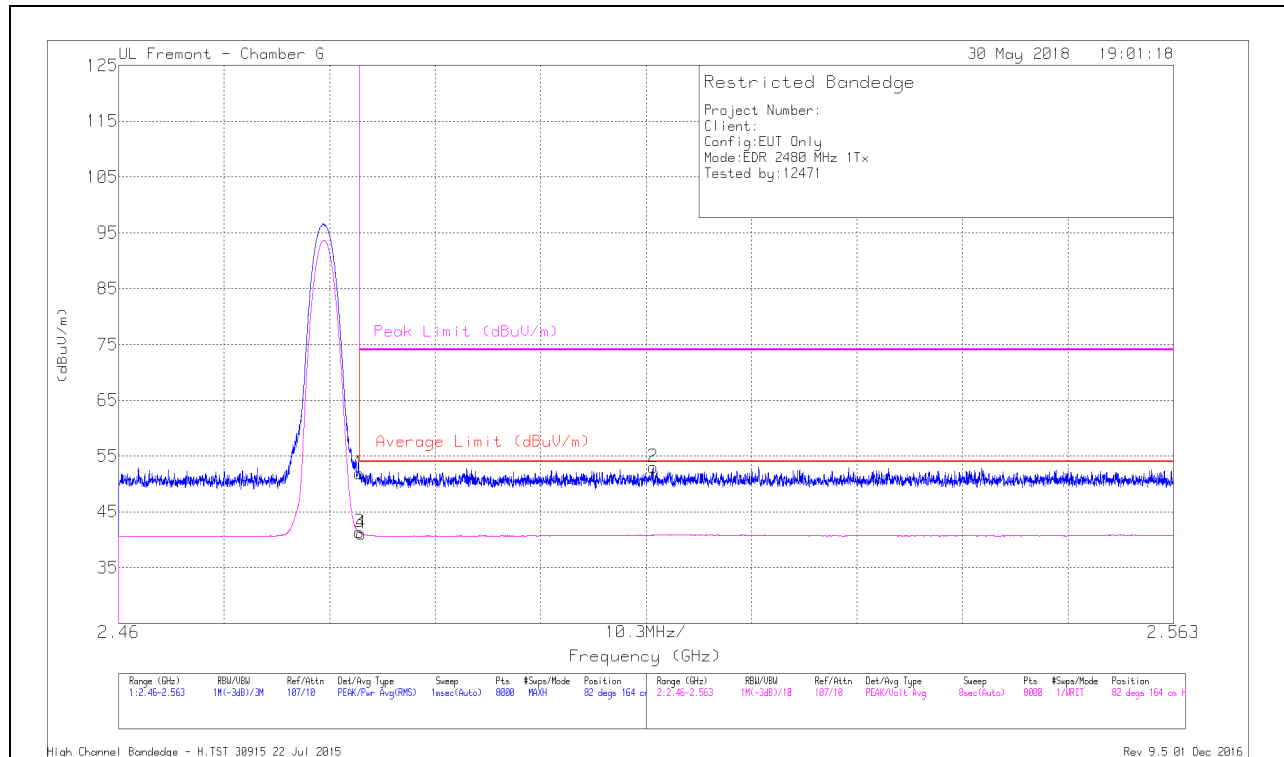


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb1/Filt/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.86	Pk	32.1	-22.3	50.66	-	-	74	-23.34	41	341	V
2	* 2.365	43.68	Pk	31.9	-22.3	53.28	-	-	74	-20.72	41	341	V
3	* 2.39	30.94	VA1T	32.1	-22.3	40.74	54	-13.26	-	-	41	341	V
4	* 2.386	30.82	VA1T	32.2	-22.2	40.82	54	-13.18	-	-	41	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

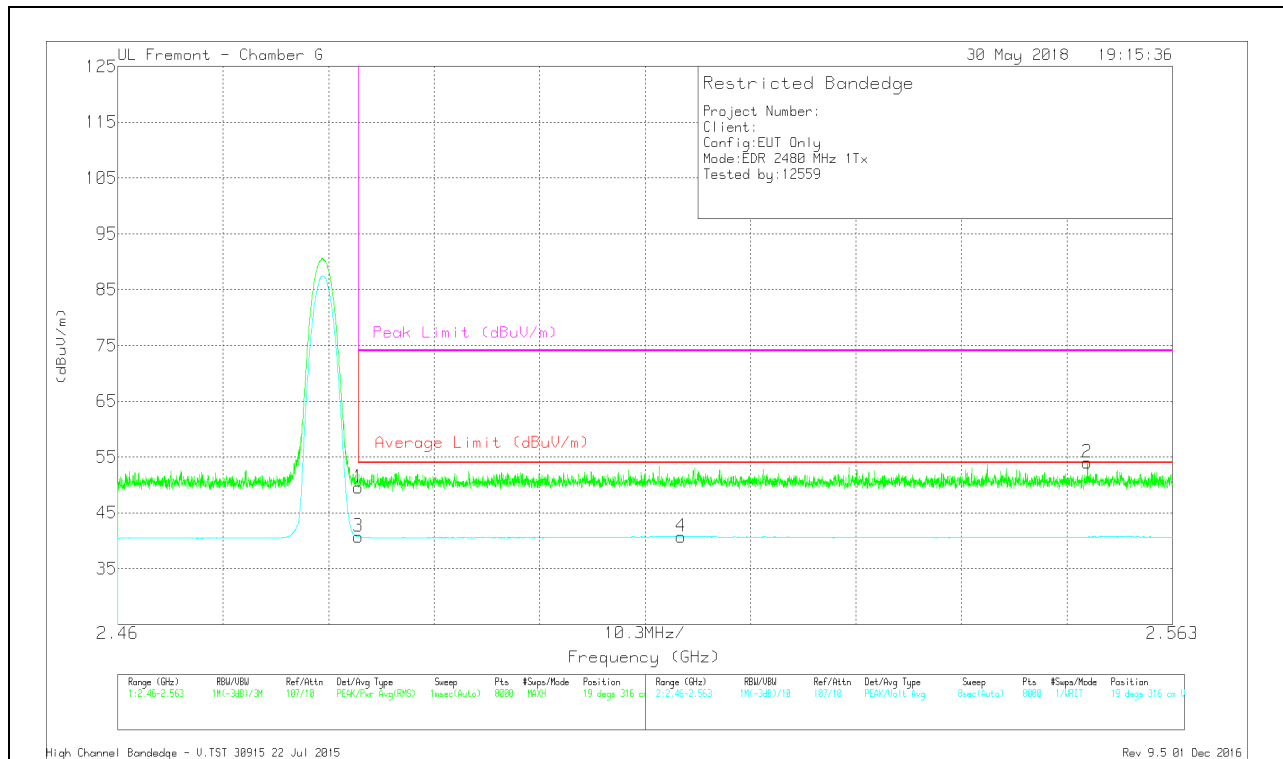
BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Ampl/Cbl/Ftr/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	41.76	Pk	32.5	-22.3	51.96	-	-	74	-22.04	82	164	H
3	* 2.484	31.11	VA1T	32.5	-22.3	41.31	54	-12.69	-	-32.69	82	164	H
4	* 2.484	30.93	VA1T	32.5	-22.3	41.13	54	-12.87	-	-32.87	82	164	H
2	2.512	42.72	Pk	32.6	-22.3	53.02	-	-	74	-20.98	82	164	H

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

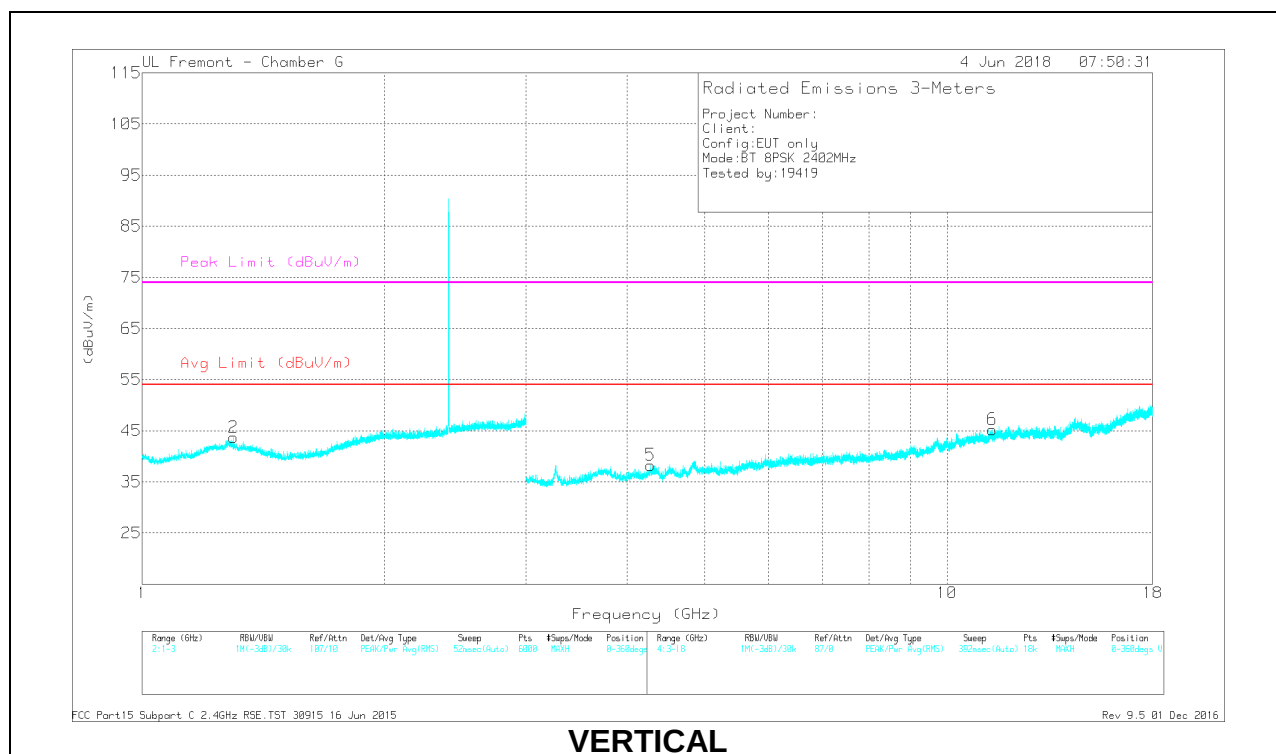
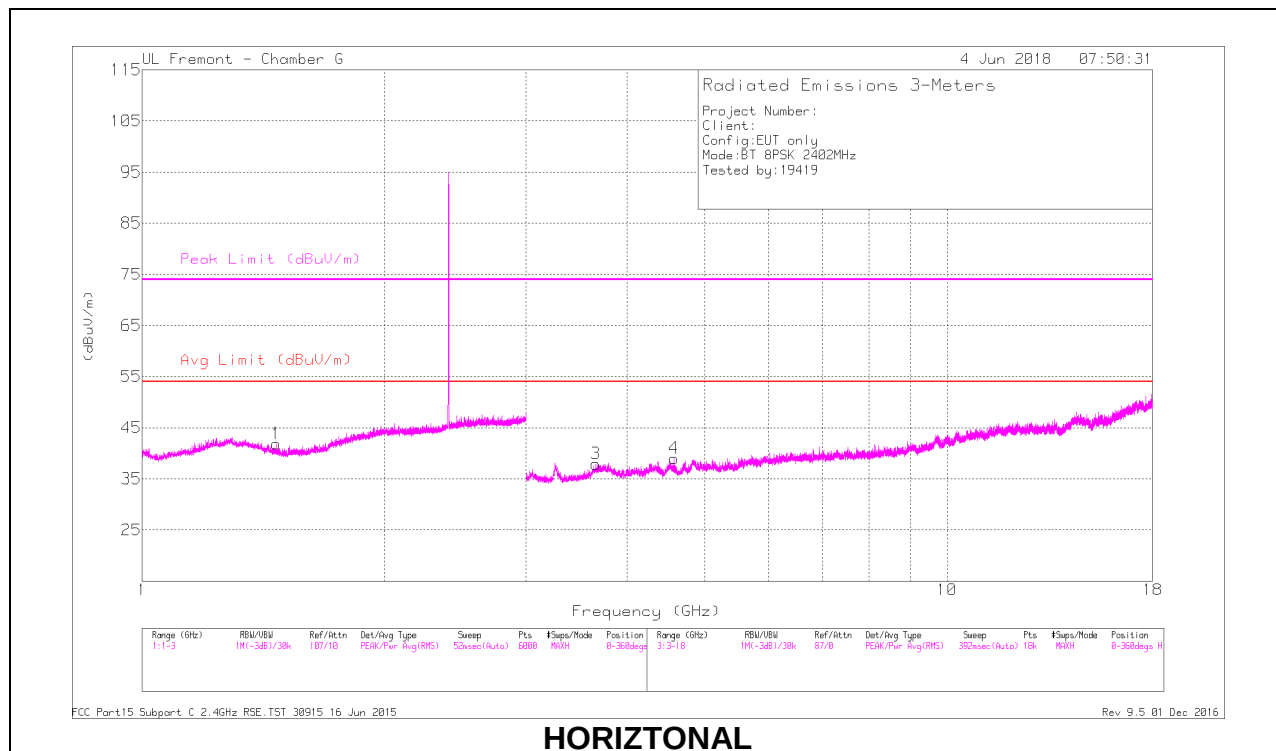
Pk - Peak detector

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	39.4	Pk	32.5	-22.3	49.6	-	-	74	-24.4	19	316	V
3	* 2.484	30.51	VA1T	32.5	-22.3	40.71	54	-13.29	74	-33.29	19	316	V
4	2.515	30.37	VA1T	32.7	-22.3	40.77	54	-13.23	74	-33.23	19	316	V
2	2.555	43.57	Pk	32.6	-22.2	53.97	-	-	74	-20.03	19	316	V

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

HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL RESULTS**

RADIATED EMISSIONS

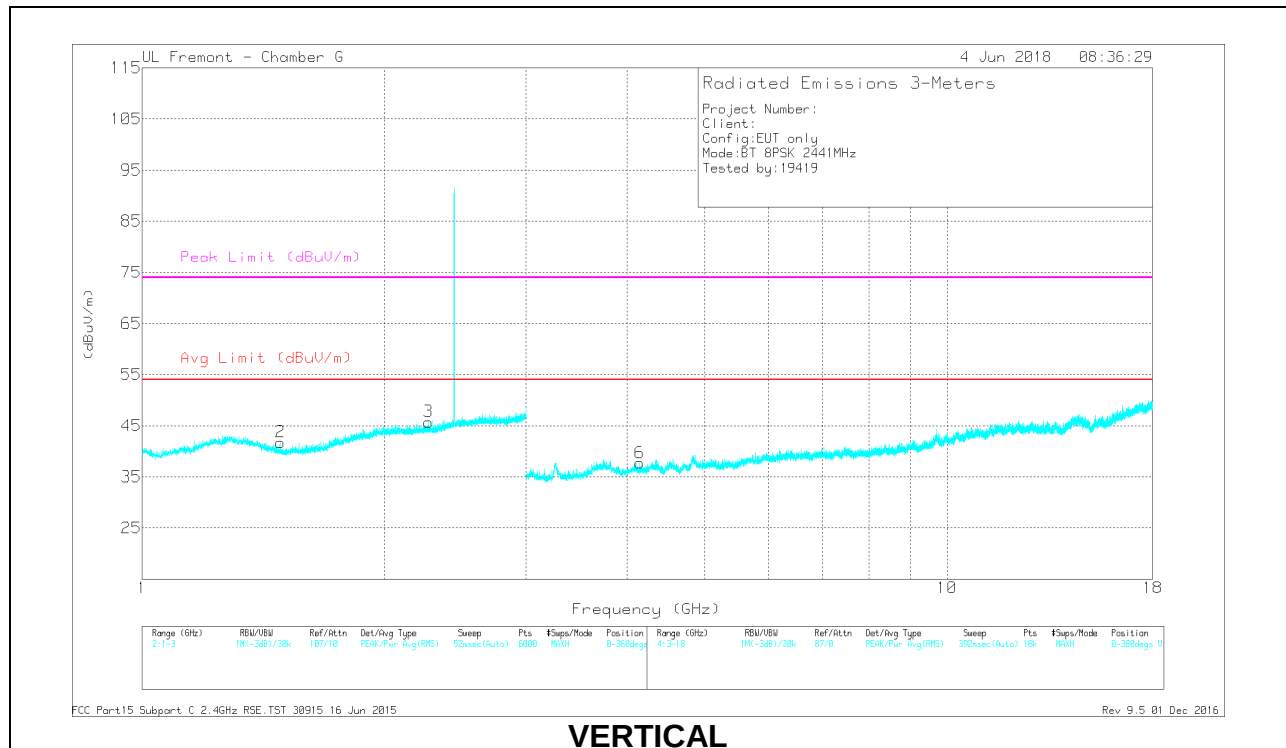
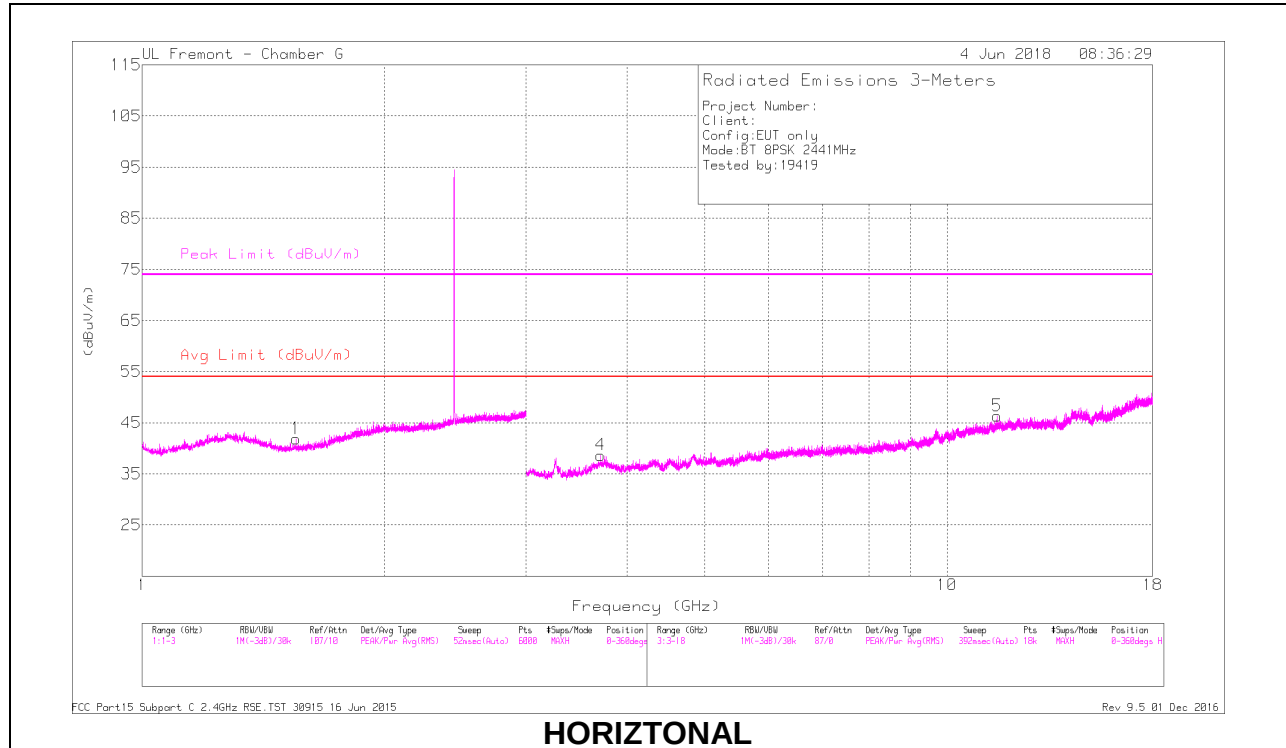
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.465	42.68	PKFH	28.1	-23.4	47.38	-	-	74	-26.62	159	287	H
	* 1.456	30.41	VA1T	28.2	-23.4	35.21	54	-18.79	-	-	159	287	H
2	* 1.298	43.35	PKFH	29.9	-23.8	49.45	-	-	74	-24.55	47	368	V
	* 1.298	30.76	VA1T	29.9	-23.8	36.86	54	-17.14	-	-	47	368	V
3	* 3.651	39.97	PKFH	33.7	-29.4	44.27	-	-	74	-29.73	74	166	H
	* 3.645	27.48	VA1T	33.8	-29.6	31.68	54	-22.32	-	-	74	166	H
4	* 4.591	39.61	PKFH	34.4	-30	44.01	-	-	74	-29.99	146	292	H
	* 4.586	27.49	VA1T	34.4	-30	31.89	54	-22.11	-	-	146	292	H
5	* 4.271	39.67	PKFH	34	-29.7	43.97	-	-	74	-30.03	88	178	V
	* 4.274	27.13	VA1T	34	-29.6	31.53	54	-22.47	-	-	88	178	V
6	* 11.379	35.95	PKFH	38.4	-23	51.35	-	-	74	-22.65	32	135	V
	* 11.399	23.55	VA1T	38.4	-23.3	38.65	54	-15.35	-	-	32	135	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



RADIATED EMISSIONS

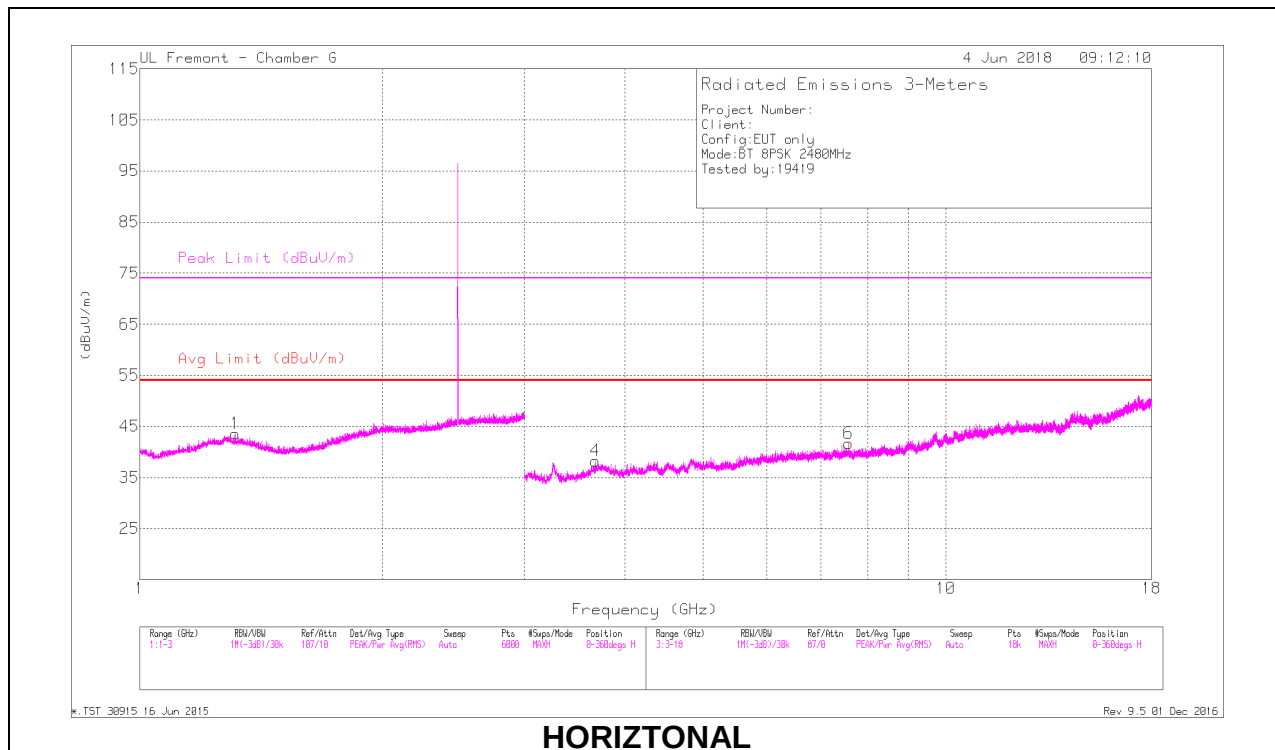
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
1	* 1.554	42.99	PKFH	28.1	-23.2	47.89	-	-	74	-26.11	52	188	H
	* 1.542	30.23	VA1T	28	-23.2	35.03	54	-18.97	-	-	52	188	H
2	* 1.487	42.92	PKFH	27.9	-23.3	47.52	-	-	74	-26.48	116	273	V
	* 1.492	30.5	VA1T	27.7	-23.3	34.9	54	-19.1	-	-	116	273	V
3	* 2.267	43.43	PKFH	31.8	-22.5	52.73	-	-	74	-21.27	271	151	V
	* 2.282	30.39	VA1T	31.9	-22.5	39.79	54	-14.21	-	-	271	151	V
4	* 3.702	39.09	PKFH	33.8	-29	43.89	-	-	74	-30.11	308	132	H
	* 3.722	26.74	VA1T	33.8	-29.1	31.44	54	-22.56	-	-	308	132	H
5	* 11.541	36.05	PKFH	38.6	-22.9	51.75	-	-	74	-22.25	44	320	H
	* 11.535	23.54	VA1T	38.6	-22.9	39.24	54	-14.76	-	-	44	320	H
6	* 4.153	40.27	PKFH	34	-30.6	43.67	-	-	74	-30.33	309	320	V
	* 4.167	28.05	VA1T	33.9	-30.6	31.35	54	-22.65	-	-	309	320	V

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

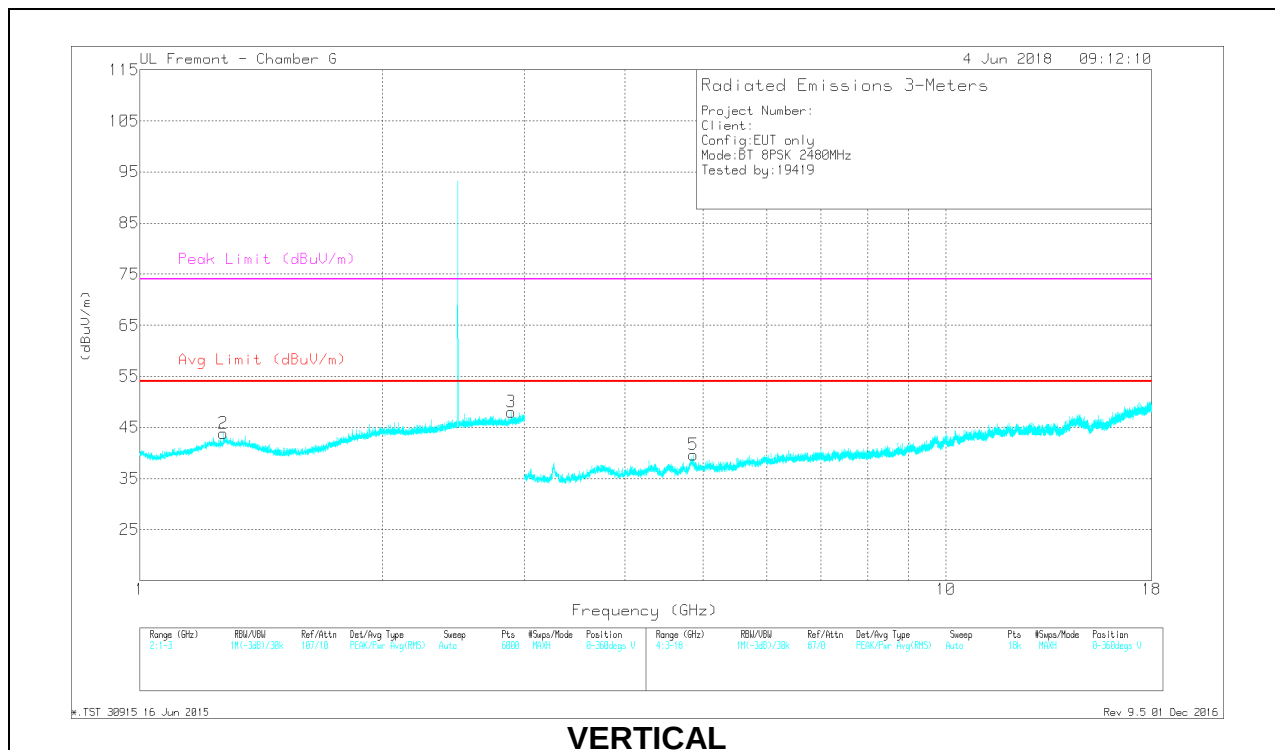
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

HIGH CHANNEL RESULTS



HORIZTONTAL



VERTICAL

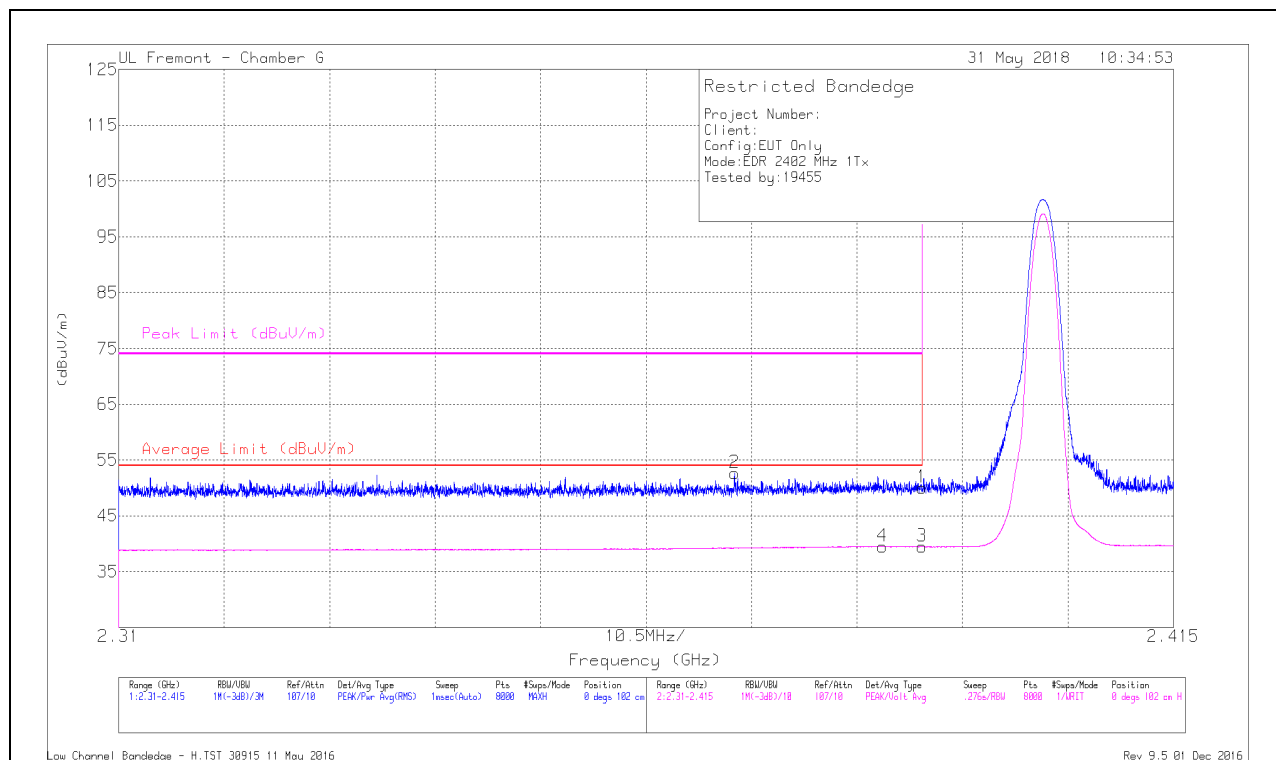
RADIATED EMISSIONS

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.313	42.51	PKFH	29.8	-23.8	48.51	-	-	74	-25.49	196	124	H
	* 1.314	30.29	VA1T	29.7	-23.8	36.19	54	-17.81	-	-	196	124	H
2	* 1.263	43.29	PKFH	29.9	-23.9	49.29	-	-	74	-24.71	332	232	V
	* 1.279	30.85	VA1T	30.4	-23.9	37.35	54	-16.65	-	-	332	232	V
3	* 2.881	42.13	PKFH	32.9	-21.9	53.13	-	-	74	-20.87	141	302	V
	* 2.886	29.87	VA1T	32.9	-21.9	40.87	54	-13.13	-	-	141	302	V
4	* 3.665	38.98	PKFH	33.7	-29.2	43.48	-	-	74	-30.52	150	132	H
	* 3.658	26.8	VA1T	33.7	-29.3	31.2	54	-22.8	-	-	150	132	H
6	* 7.563	38.41	PKFH	35.7	-26.8	47.31	-	-	74	-26.69	263	237	H
	* 7.57	25.82	VA1T	35.8	-26.9	34.72	54	-19.28	-	-	263	237	H
5	* 4.853	40.08	PKFH	34.3	-29.9	44.48	-	-	74	-29.52	84	191	V
	* 4.863	27.89	VA1T	34.2	-29.8	32.29	54	-21.71	-	-	84	191	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 5**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

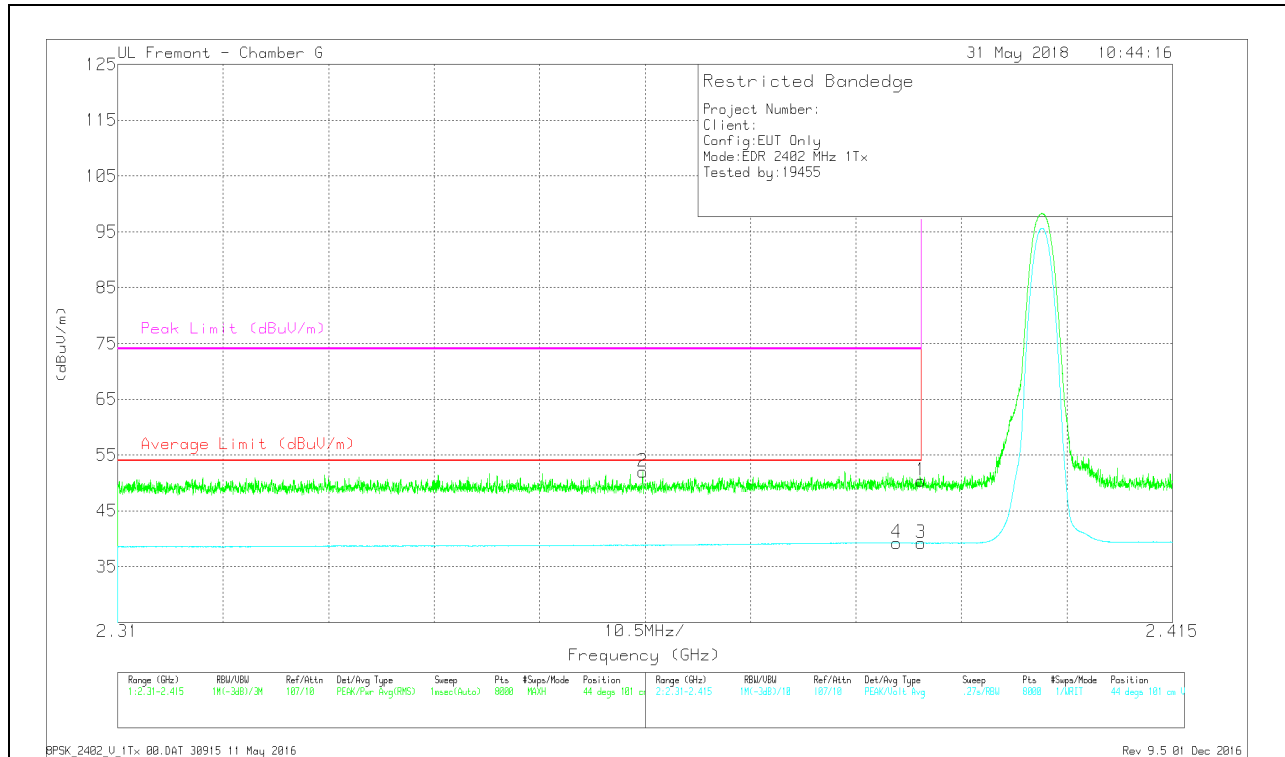
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.29	Pk	32.1	-22.3	50.09	-	-	74	-23.91	0	102	H
2	* 2.371	42.94	Pk	32	-22.3	52.64	-	-	74	-21.36	0	102	H
3	* 2.39	29.69	VA1T	32.1	-22.3	39.49	54	-14.51	-	-	0	102	H
4	* 2.386	29.54	VA1T	32.2	-22.2	39.54	54	-14.46	-	-	0	102	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

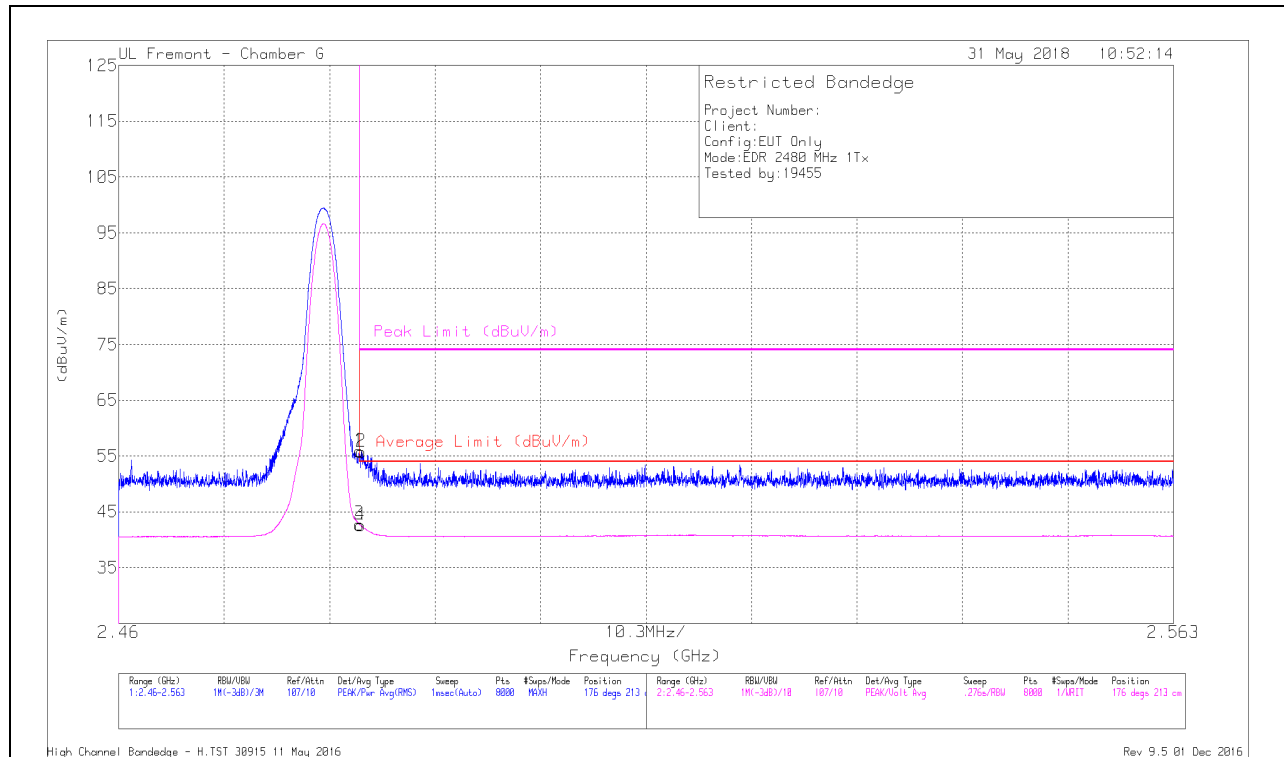


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.56	Pk	32.1	-22.3	50.36	-	-	74	-23.64	44	101	V
2	* 2.362	42.47	Pk	31.9	-22.3	52.07	-	-	74	-21.93	44	101	V
3	* 2.39	29.41	VA1T	32.1	-22.3	39.21	54	-14.79	-	-	44	101	V
4	* 2.388	29.3	VA1T	32.2	-22.2	39.3	54	-14.7	-	-	44	101	V

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

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

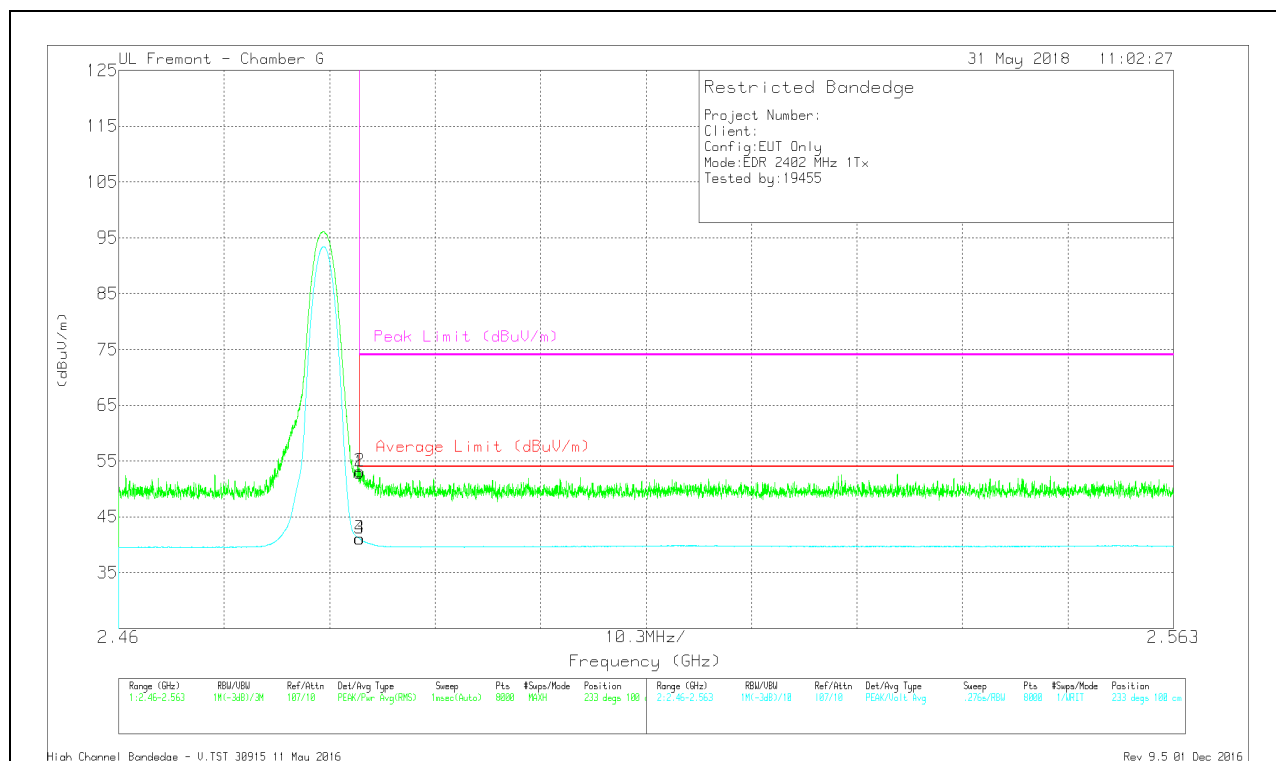
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Ftr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.67	Pk	32.5	-22.3	55.87	-	-	74	-18.13	176	213	H
2	* 2.484	45.59	Pk	32.5	-22.3	55.79	-	-	74	-18.21	176	213	H
3	* 2.484	32.58	VA1T	32.5	-22.3	42.78	54	-11.22	-	-	176	213	H
4	* 2.484	32.39	VA1T	32.5	-22.3	42.59	54	-11.41	-	-	176	213	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

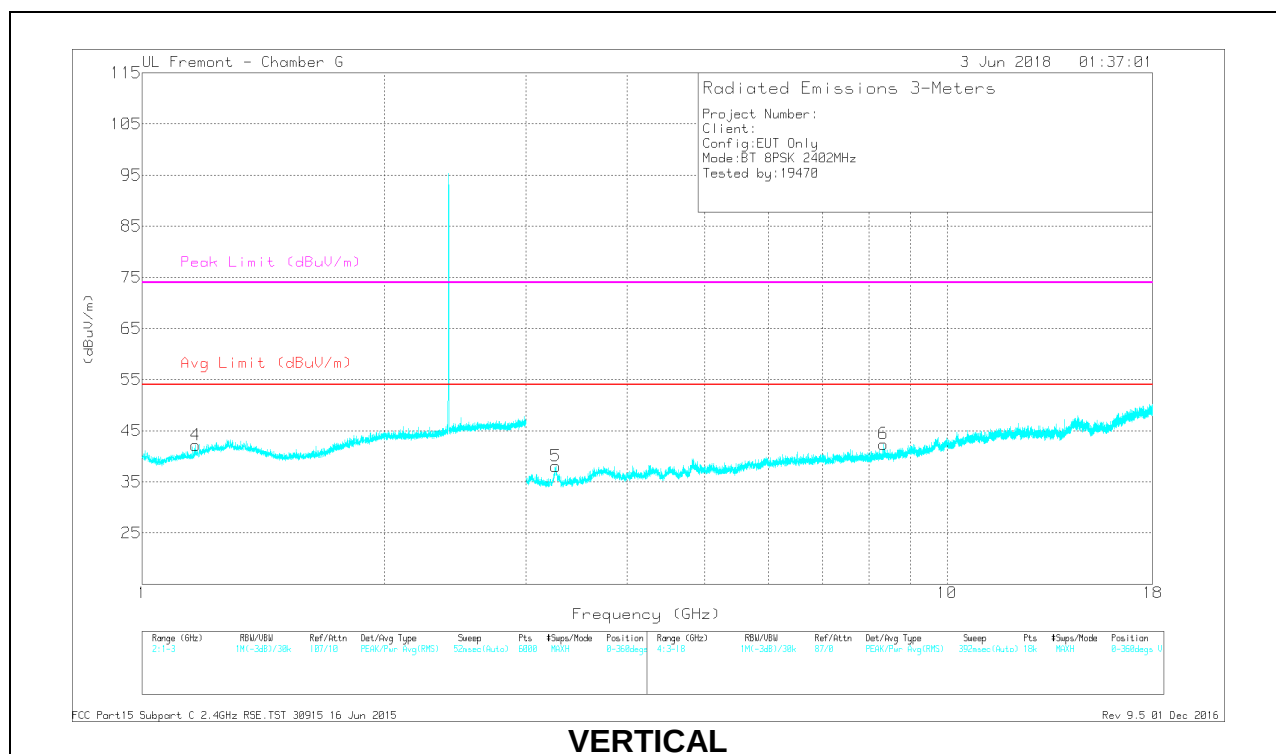
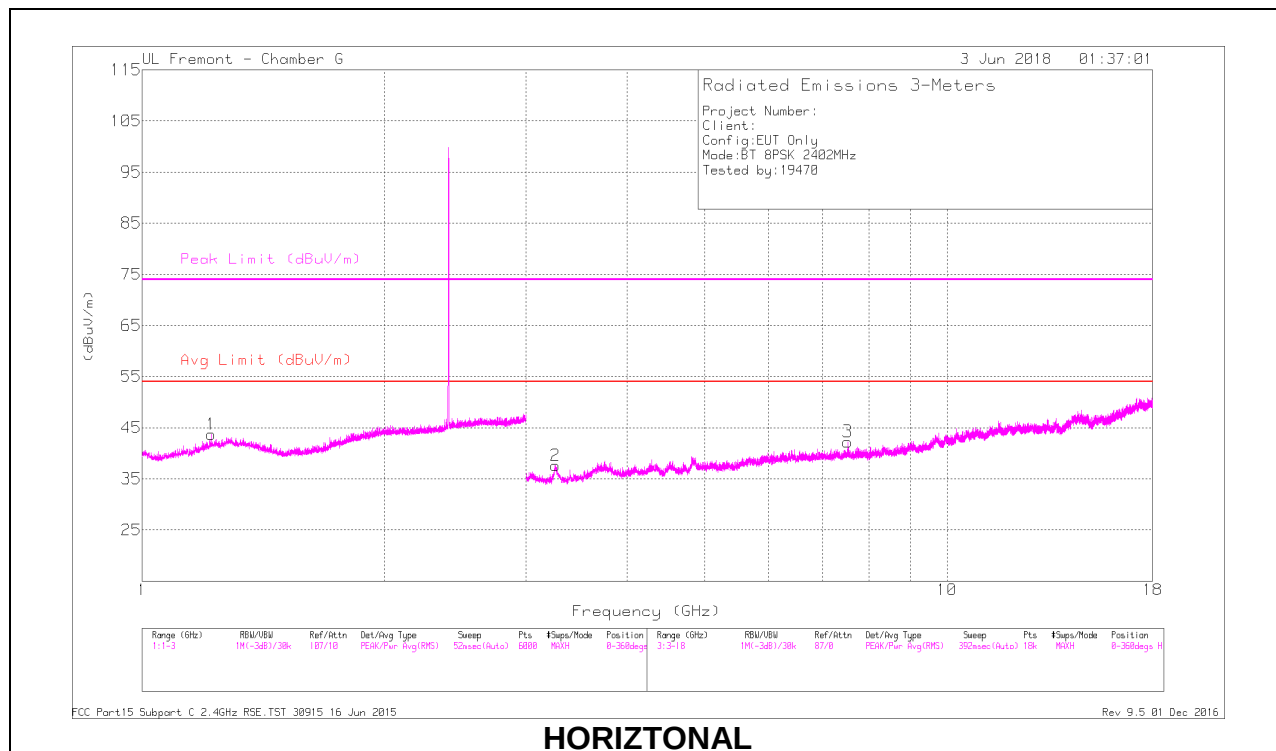


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.69	Pk	32.5	-22.3	52.89	-	-	74	-21.11	233	100	V
2	* 2.484	42.98	Pk	32.5	-22.3	53.18	-	-	74	-20.82	233	100	V
3	* 2.484	30.92	VA1T	32.5	-22.3	41.12	54	-12.88	-	-	233	100	V
4	* 2.484	30.88	VA1T	32.5	-22.3	41.08	54	-12.92	-	-	233	100	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**

RADIATED EMISSIONS

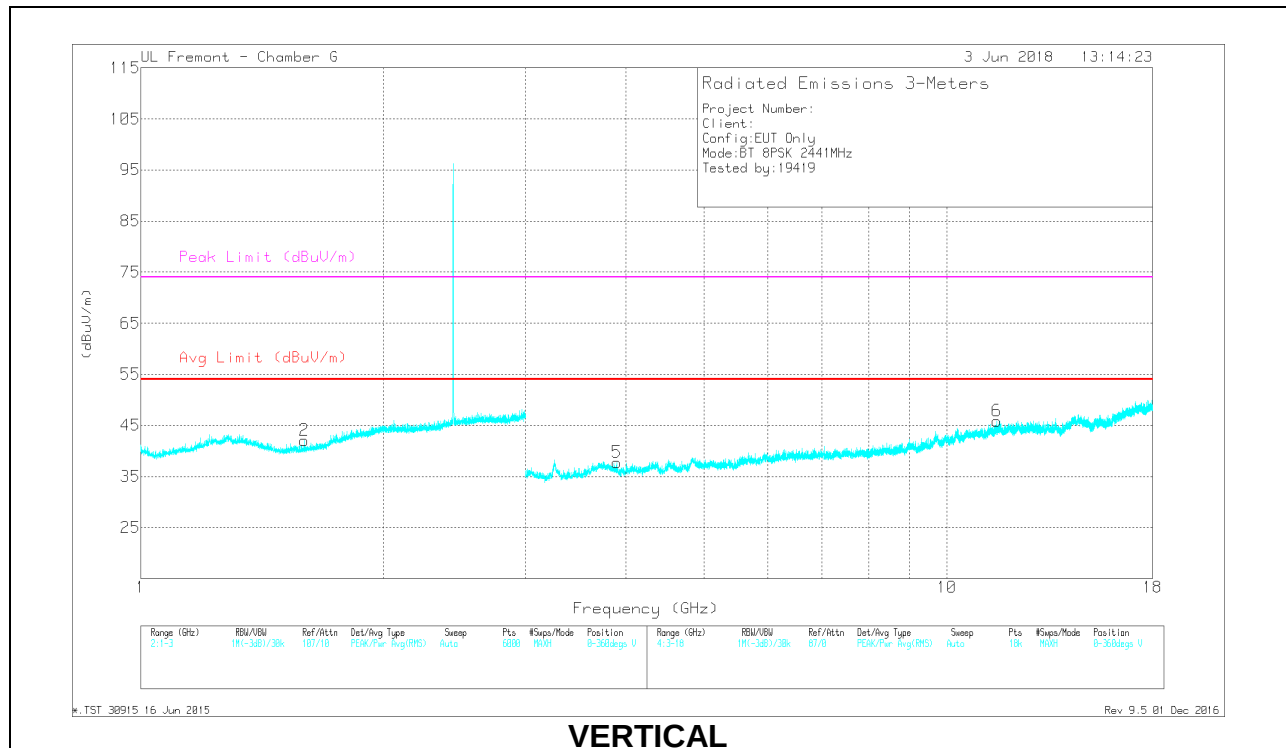
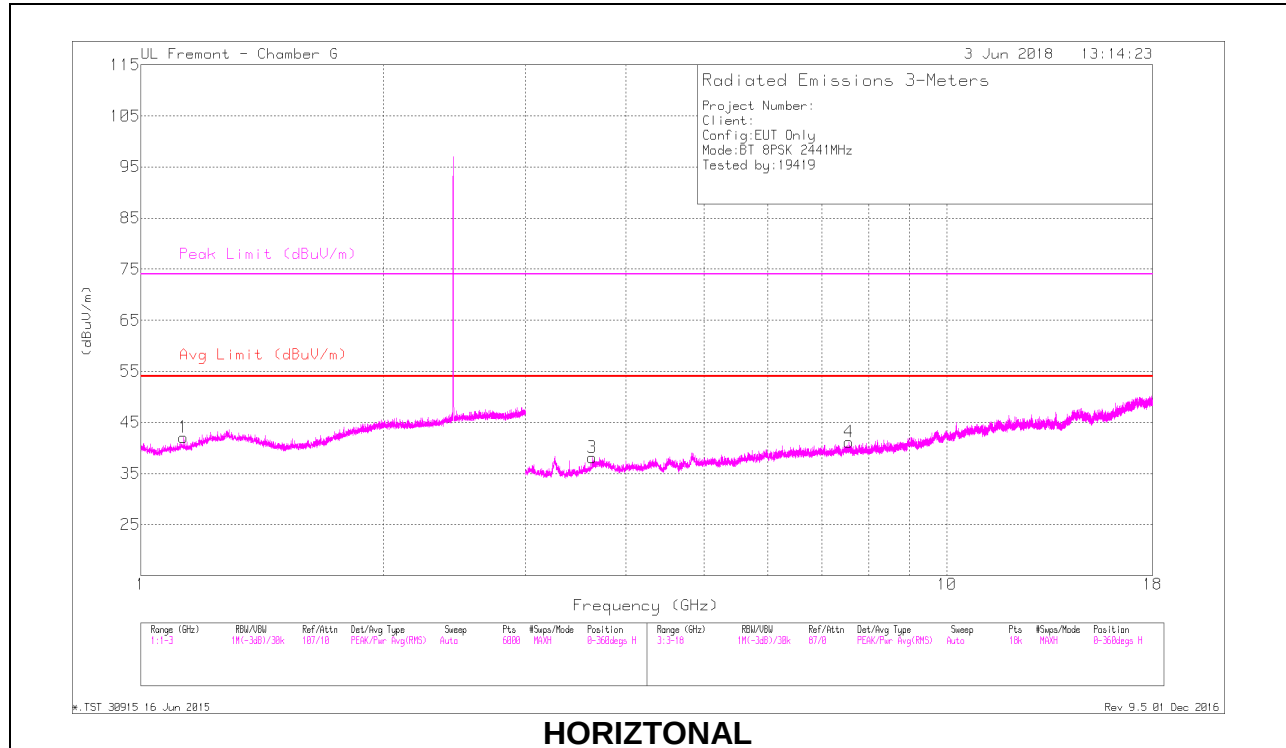
	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.216	42.36	PKFH	29.7	-23.9	48.16	-	-	74	-25.84	355	128	H
	* 1.218	30.5	VA1T	29.8	-23.9	36.4	54	-17.6	-	-	355	128	H
4	* 1.164	42.81	PKFH	28.4	-23.9	47.31	-	-	74	-26.69	146	248	V
	* 1.165	30.99	VA1T	28.4	-23.9	35.49	54	-18.51	-	-	146	248	V
2	* 3.261	38.95	PKFH	35.4	-30.7	43.65	-	-	74	-30.35	98	317	H
	* 3.261	27.88	VA1T	35.4	-30.7	32.58	54	-21.42	-	-	98	317	H
3	* 7.526	37.46	PKFH	35.8	-26.8	46.46	-	-	74	-27.54	256	241	H
	* 7.523	25.77	VA1T	35.8	-26.9	34.67	54	-19.33	-	-	256	241	H
5	* 3.266	39.78	PKFH	35.4	-30.6	44.58	-	-	74	-29.42	161	312	V
	* 3.26	27.96	VA1T	35.3	-30.7	32.56	54	-21.44	-	-	161	312	V
6	* 8.34	37.87	PKFH	35.8	-26.8	46.87	-	-	74	-27.13	339	303	V
	* 8.338	25.91	VA1T	35.8	-26.8	34.91	54	-19.09	-	-	339	303	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



RADIATED EMISSIONS

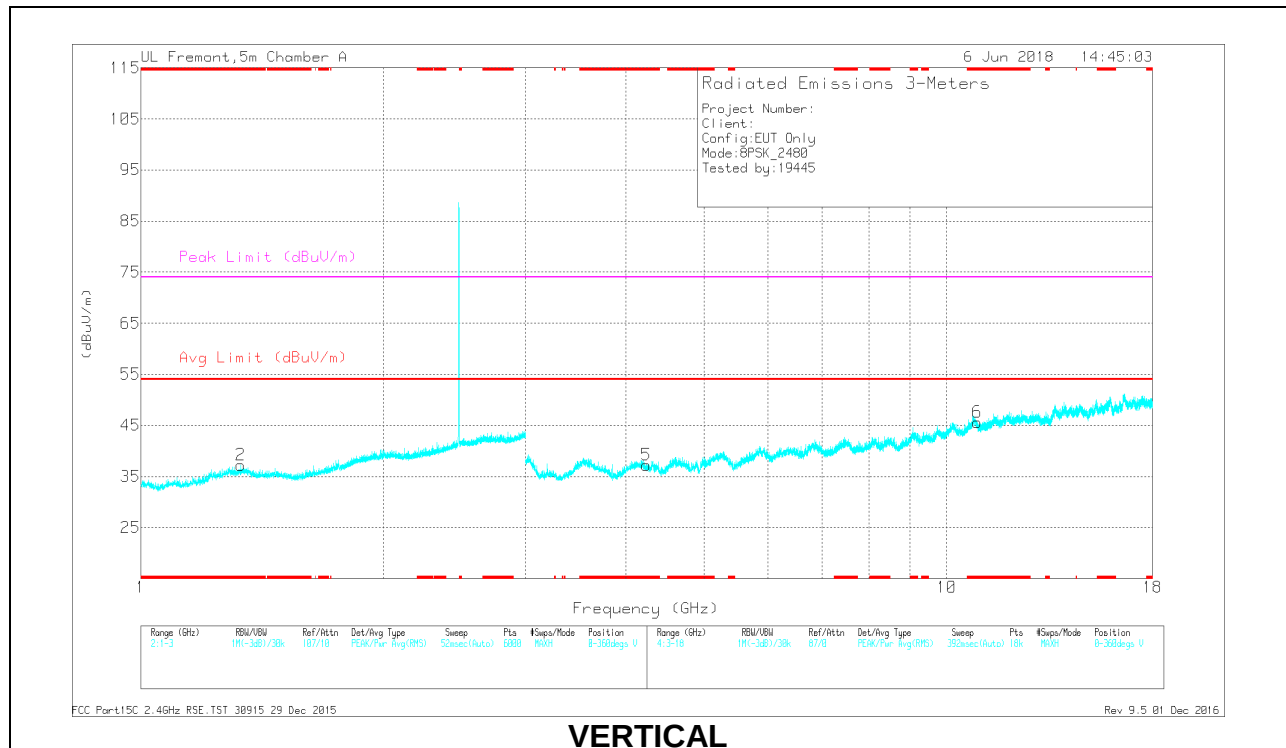
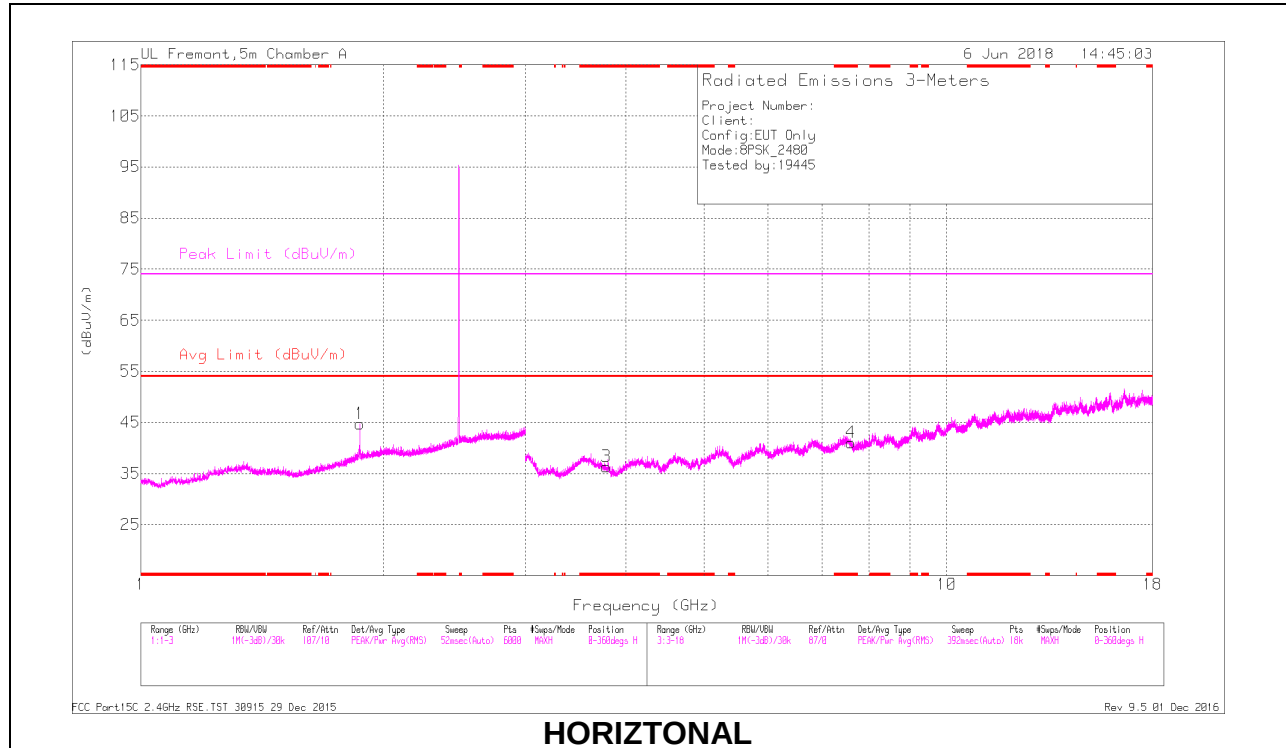
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.129	42.6	PKFH	28	-23.9	46.7	-	-	74	-27.3	242	265	H
	* 1.128	30.84	VA1T	28	-23.9	34.94	54	-19.06	-	-	242	265	H
2	* 1.597	41.82	PKFH	28.1	-23.2	46.72	-	-	74	-27.28	107	298	V
	* 1.595	30.6	VA1T	28	-23.2	35.4	54	-18.6	-	-	107	298	V
3	* 3.631	39.22	PKFH	34.1	-29.9	43.42	-	-	74	-30.58	117	295	H
	* 3.632	27.51	VA1T	34.1	-29.8	31.81	54	-22.19	-	-	117	295	H
4	* 7.565	38.11	PKFH	35.7	-26.8	47.01	-	-	74	-26.99	291	242	H
	* 7.566	25.77	VA1T	35.8	-26.8	34.77	54	-19.23	-	-	291	242	H
5	* 3.898	40.33	PKFH	33.8	-30.7	43.43	-	-	74	-30.57	345	230	V
	* 3.898	28.36	VA1T	33.8	-30.7	31.46	54	-22.54	-	-	345	230	V
6	* 11.534	35.24	PKFH	38.6	-22.9	50.94	-	-	74	-23.06	32	100	V
	* 11.532	23.36	VA1T	38.6	-22.9	39.06	54	-14.94	-	-	32	100	V

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

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

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

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.329	35.84	PKFH	29.5	-23.7	41.64	-	-	74	-32.36	131	164	V
	* 1.333	24.37	VA1T	29.5	-23.7	30.17	54	-23.83	-	-	131	164	V
3	* 3.779	37.43	PKFH	33.2	-28.5	42.13	-	-	74	-31.87	158	251	H
	* 3.782	25.9	VA1T	33.2	-28.5	30.6	54	-23.4	-	-	158	251	H
4	* 7.61	34.8	PKFH	35.7	-22.6	47.9	-	-	74	-26.1	274	152	H
	* 7.609	22.24	VA1T	35.7	-22.6	35.34	54	-18.66	-	-	274	152	H
5	* 4.24	36.39	PKFH	33.5	-27	42.89	-	-	74	-31.11	284	226	V
	* 4.241	25.13	VA1T	33.5	-27	31.63	54	-22.37	-	-	284	226	V
6	* 10.91	33	PKFH	37.9	-18.8	52.1	-	-	74	-21.9	35	257	V
	* 10.914	20.66	VA1T	37.9	-18.9	39.66	54	-14.34	-	-	35	257	V
1	1.869	36.96	PKFH	31	-23.3	44.66	-	-	-	-	329	387	H

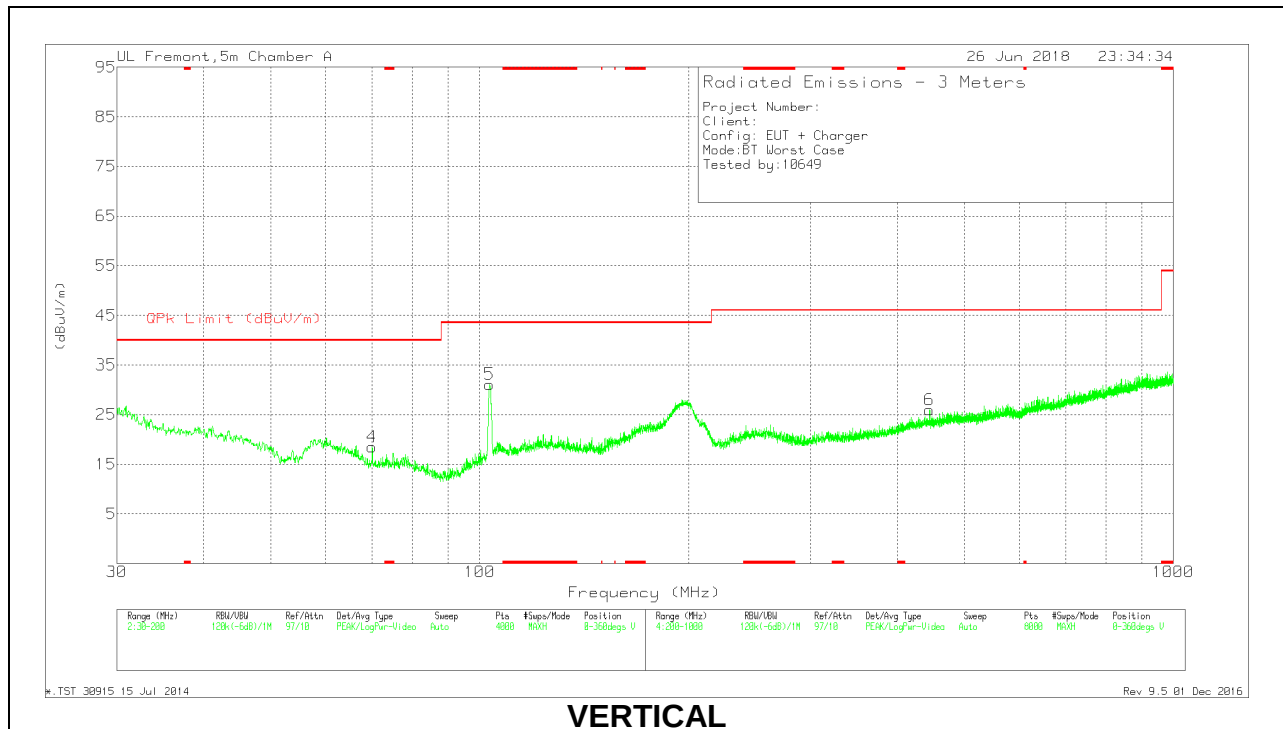
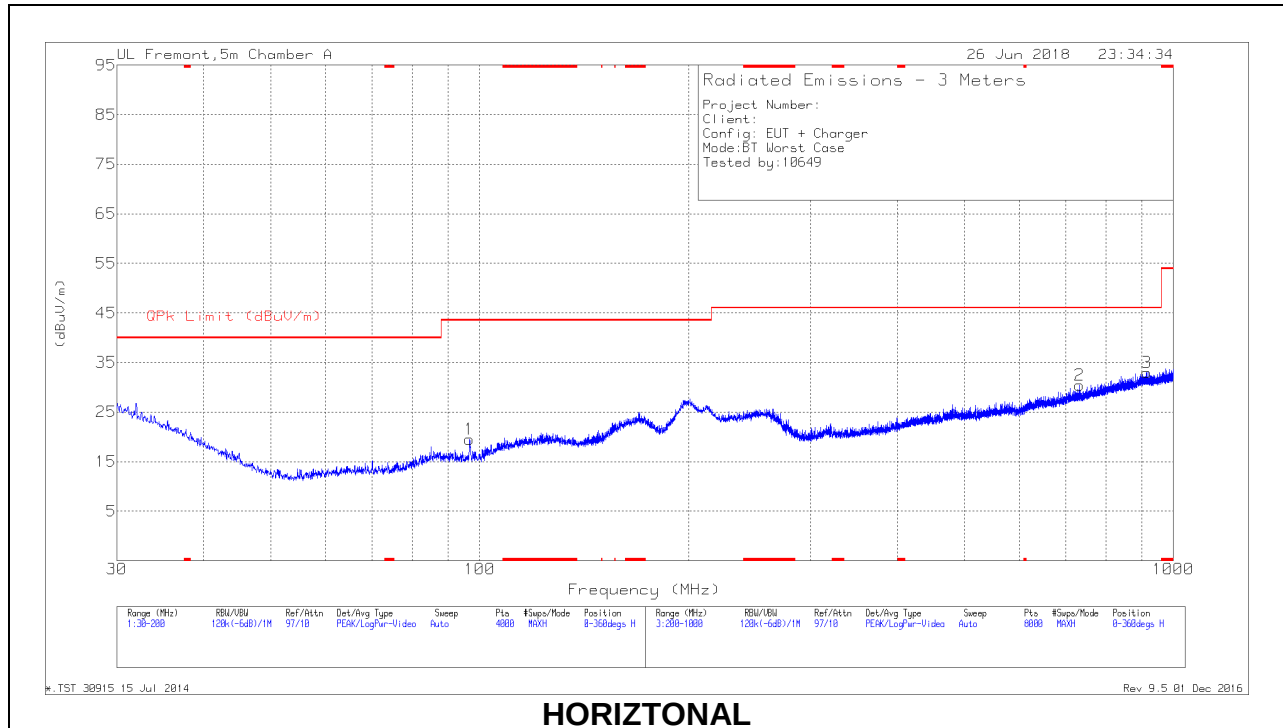
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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



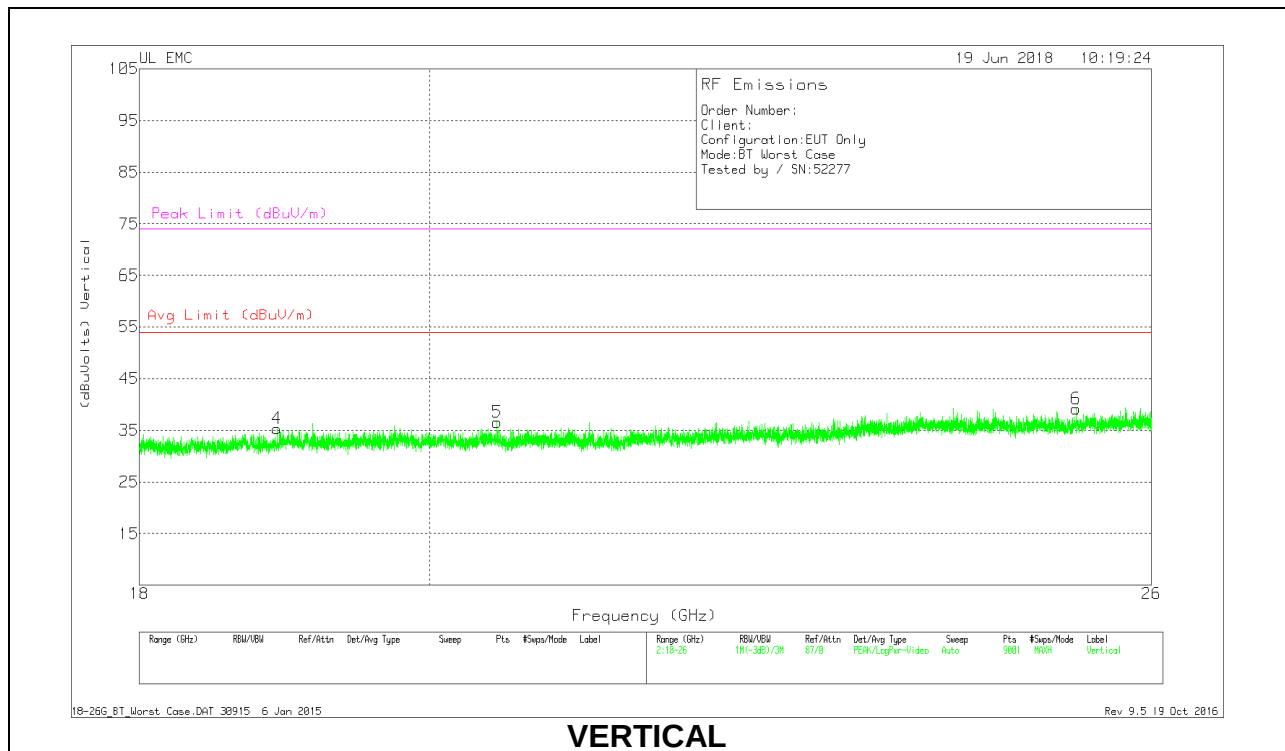
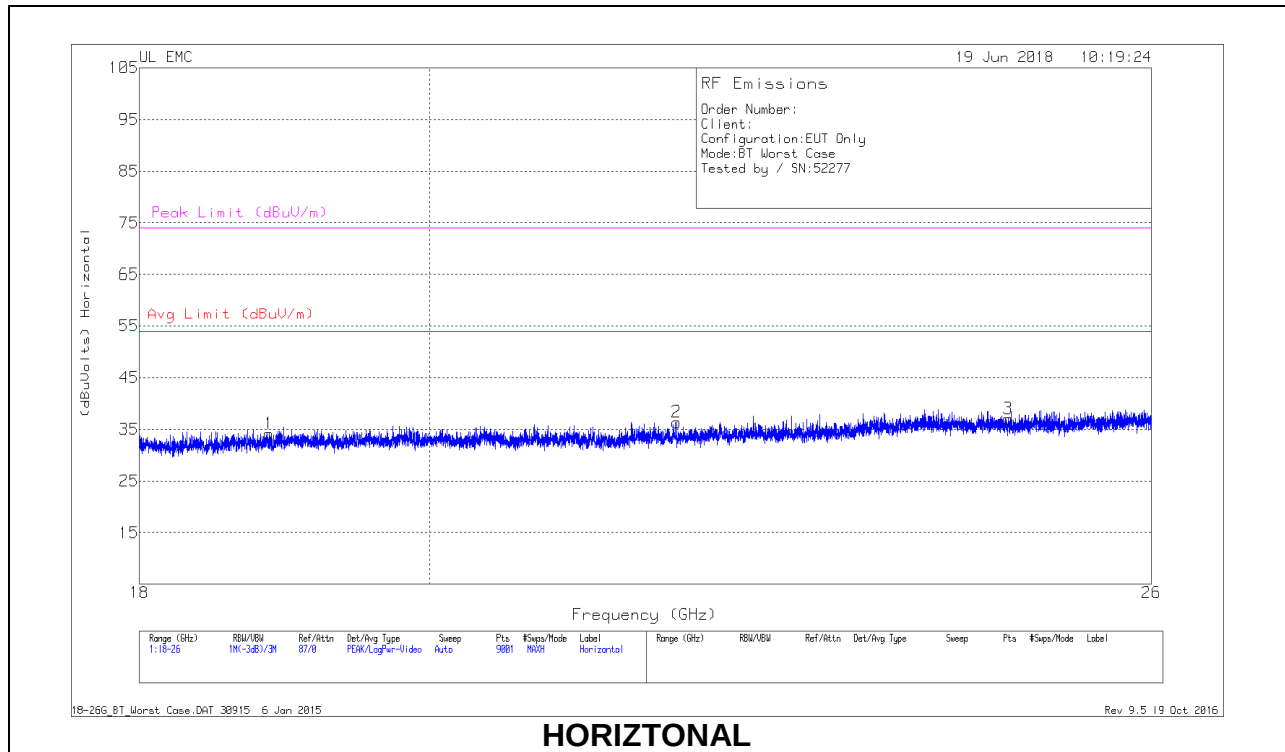
Below 1GHz Data

Markers	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	69.9902	29.24	PKFH	12.1	-26.7	14.64	40	-25.36	164	345	V
1	96.5229	27.11	PKFH	13.3	-26.4	14.01	43.52	-29.51	181	315	H
5	103.3788	28.1	PKFH	15.2	-26.4	16.9	43.52	-26.62	243	127	V
6	733.152	26.65	PKFH	24.5	-24.3	26.85	46.02	-19.17	142	298	H
2	916.3189	26.51	PKFH	26.5	-22.9	30.11	46.02	-15.91	117	316	H
3	916.5121	26.44	PKFH	26.5	-22.9	30.04	46.02	-15.98	128	262	H

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

9.3. Worst Case 18-26 GHz

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



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	18.869	36.56	Pk	32.4	-25.3	-9.5	34.16	54	-19.84	74	-39.84
2	21.879	37.64	Pk	33.3	-25.1	-9.5	36.34	54	-17.66	74	-37.66
3	24.678	37.05	Pk	34.1	-24.6	-9.5	37.05	54	-16.95	74	-36.95
4	18.923	37.7	Pk	32.4	-25.3	-9.5	35.3	54	-18.7	74	-38.7
5	20.497	38.07	Pk	33.1	-25.1	-9.5	36.57	54	-17.43	74	-37.43
6	25.298	38.95	Pk	34.3	-24.6	-9.5	39.15	54	-14.85	74	-34.85

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.

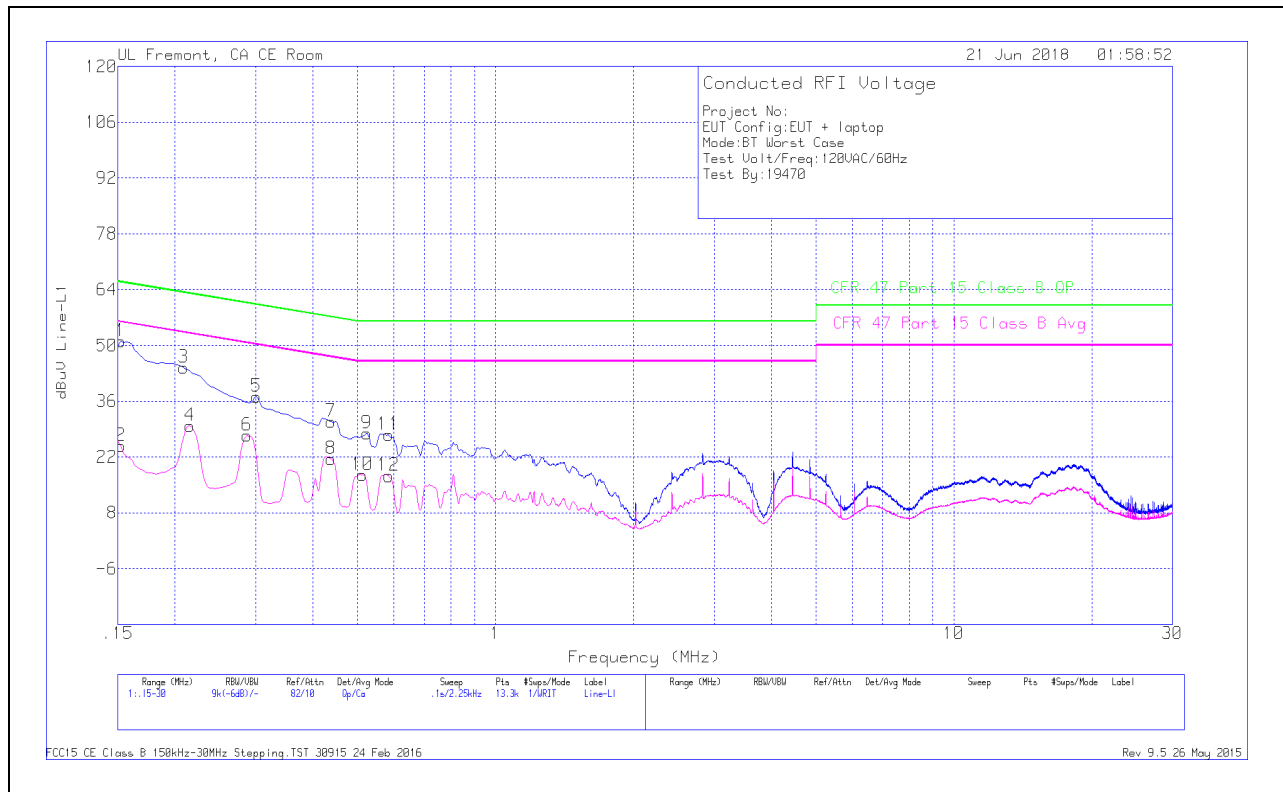
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

10.1.1. AC Power Line Host

LINE 1 RESULTS



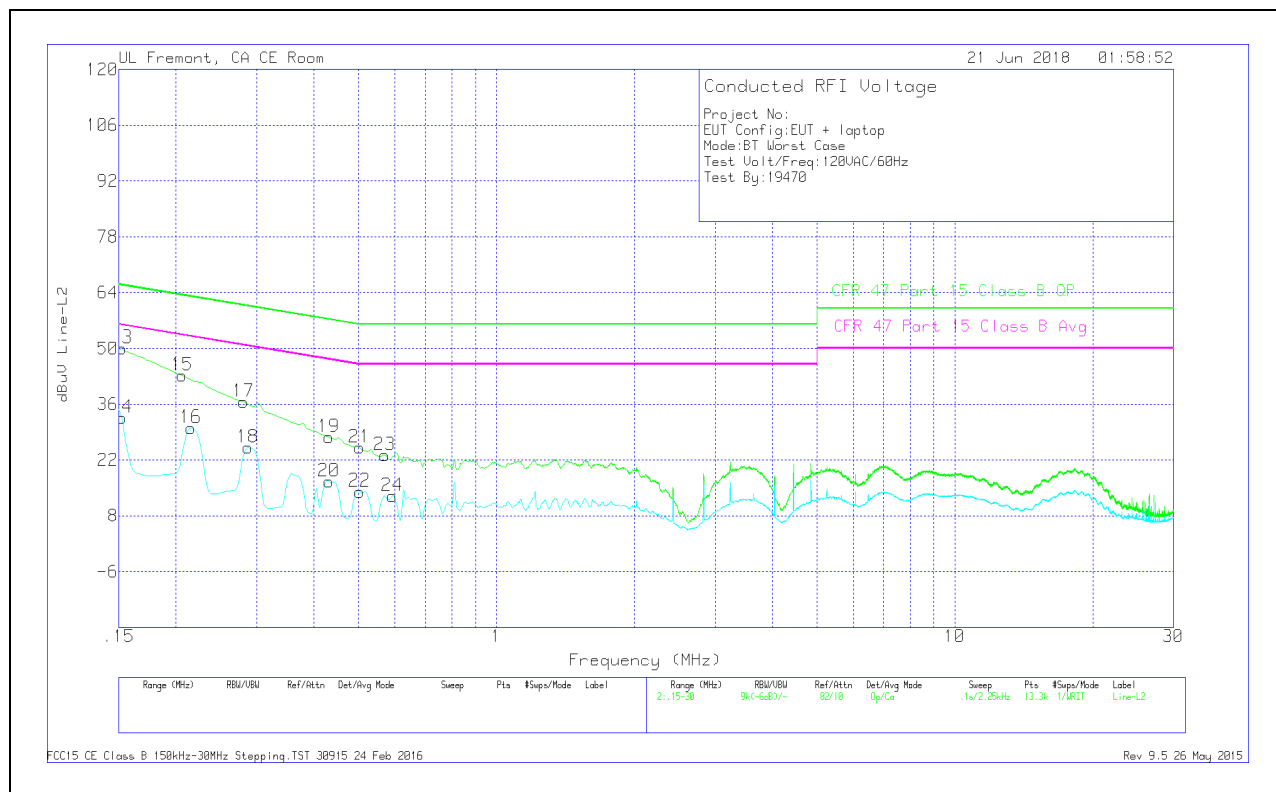
Range 1: Line-L1 .15 - 30MHz

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	.15225	40.2	Qp	.7	0	10.1	51	65.88	-14.88	-	-
2	.15225	14.04	Ca	.7	0	10.1	24.84	-	-	55.88	-31.04
3	.2085	33.74	Qp	.6	0	10.1	44.44	63.26	-18.82	-	-
4	.21525	19.28	Ca	.5	0	10.1	29.88	-	-	53	-23.12
5	.30075	26.7	Qp	.4	0	10.1	37.2	60.22	-23.02	-	-
6	.28725	16.86	Ca	.4	0	10.1	27.36	-	-	50.6	-23.24
7	.438	20.58	Qp	.2	0	10.1	30.88	57.1	-26.22	-	-
8	.438	11.2	Ca	.2	0	10.1	21.5	-	-	47.1	-25.6
9	.5235	17.74	Qp	.1	0	10.1	27.94	56	-28.06	-	-
10	.51225	7.3	Ca	.1	0	10.1	17.5	-	-	46	-28.5
11	.58425	17.3	Qp	.1	0	10.1	27.5	56	-28.5	-	-
12	.58425	7.04	Ca	.1	0	10.1	17.24	-	-	46	-28.76

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz

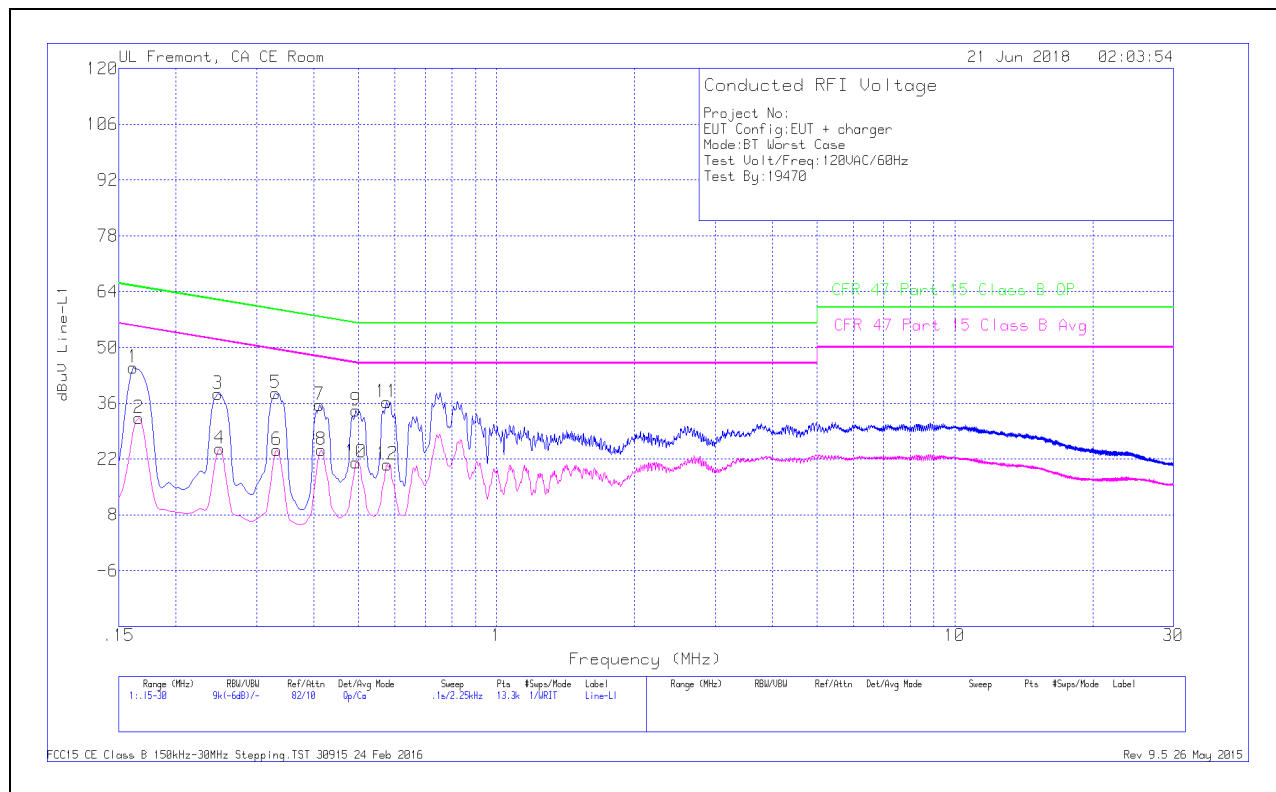
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.15225	39.88	Qp	.1	0	10.1	50.08	65.88	-15.8	-	-
14	.15225	22.37	Ca	.1	0	10.1	32.57	-	-	55.88	-23.31
15	.20625	32.94	Qp	.1	0	10.1	43.14	63.35	-20.21	-	-
16	.21525	19.89	Ca	.1	0	10.1	30.09	-	-	53	-22.91
17	.2805	26.34	Qp	.1	0	10.1	36.54	60.8	-24.26	-	-
18	.28725	14.96	Ca	.1	0	10.1	25.16	-	-	50.6	-25.44
19	.43125	17.47	Qp	.1	0	10.1	27.67	57.23	-29.56	-	-
20	.43125	6.43	Ca	.1	0	10.1	16.63	-	-	47.23	-30.6
21	.50325	14.91	Qp	.1	0	10.1	25.11	56	-30.89	-	-
22	.50325	3.9	Ca	.1	0	10.1	14.1	-	-	46	-31.9
23	.57075	13.01	Qp	.1	0	10.1	23.21	56	-32.79	-	-
24	.59325	2.81	Ca	.1	0	10.1	13.01	-	-	46	-32.99

Qp - Quasi-Peak detector

Ca - CISPR average detection

10.1.2. AC Power Line Norm

LINE 1 RESULTS



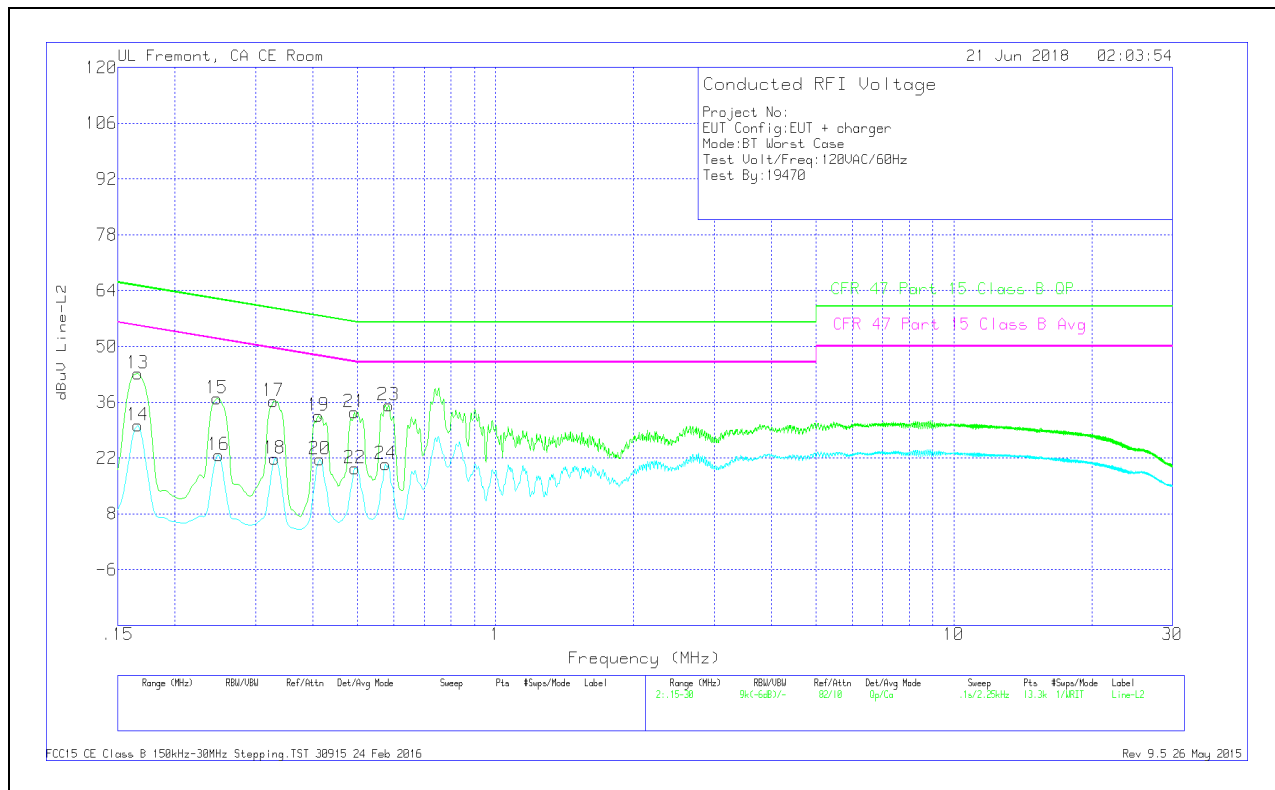
Range 1: Line-L1 .15 - 30MHz

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	34.18	Qp	.7	0	10.1	44.98	65.4	-20.42	-	-
2	.16575	21.53	Ca	.7	0	10.1	32.33	-	-	55.17	-22.84
3	.24675	27.81	Qp	.4	0	10.1	38.31	61.87	-23.56	-	-
4	.249	14.16	Ca	.4	0	10.1	24.66	-	-	51.79	-27.13
5	.33	28.13	Qp	.3	0	10.1	38.53	59.45	-20.92	-	-
6	.33225	13.93	Ca	.3	0	10.1	24.33	-	-	49.39	-25.06
7	.411	25.21	Qp	.2	0	10.1	35.51	57.63	-22.12	-	-
8	.4155	13.91	Ca	.2	0	10.1	24.21	-	-	47.54	-23.33
9	.49425	23.92	Qp	.1	0	10.1	34.12	56.1	-21.98	-	-
10	.49425	10.98	Ca	.1	0	10.1	21.18	-	-	46.1	-24.92
11	.57525	26.08	Qp	.1	0	10.1	36.28	56	-19.72	-	-
12	.5775	10.43	Ca	.1	0	10.1	20.63	-	-	46	-25.37

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	.16575	32.94	Qp	.1	0	10.1	43.14	65.17	-22.03	-	-
14	.16575	19.95	Ca	.1	0	10.1	30.15	-	-	55.17	-25.02
15	.24675	26.72	Qp	.1	0	10.1	36.92	61.87	-24.95	-	-
16	.249	12.5	Ca	.1	0	10.1	22.7	-	-	51.79	-29.09
17	.32775	26.07	Qp	.1	0	10.1	36.27	59.51	-23.24	-	-
18	.33	11.64	Ca	.1	0	10.1	21.84	-	-	49.45	-27.61
19	.411	22.37	Qp	.1	0	10.1	32.57	57.63	-25.06	-	-
20	.41325	11.41	Ca	.1	0	10.1	21.61	-	-	47.58	-25.97
21	.492	23.27	Qp	.1	0	10.1	33.47	56.13	-22.66	-	-
22	.49425	9.26	Ca	.1	0	10.1	19.46	-	-	46.1	-26.64
23	.58425	25.1	Qp	.1	0	10.1	35.3	56	-20.7	-	-
24	.57525	10.32	Ca	.1	0	10.1	20.52	-	-	46	-25.48

Qp - Quasi-Peak detector

Ca - CISPR average detection

END OF REPORT

11. SETUP PHOTOS

Please refer to 12162294-EP1V1 for setup photos