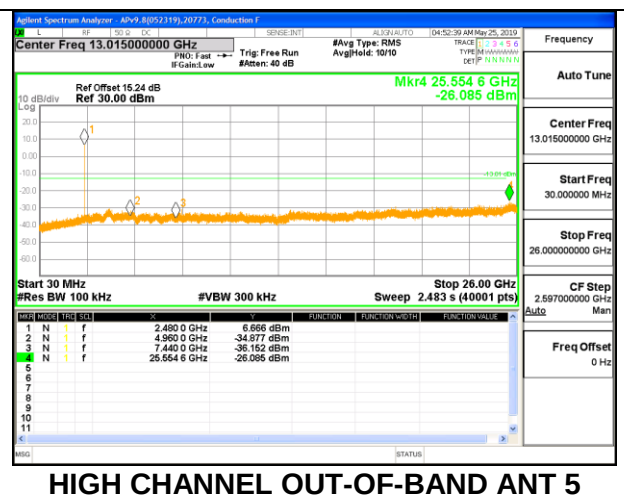
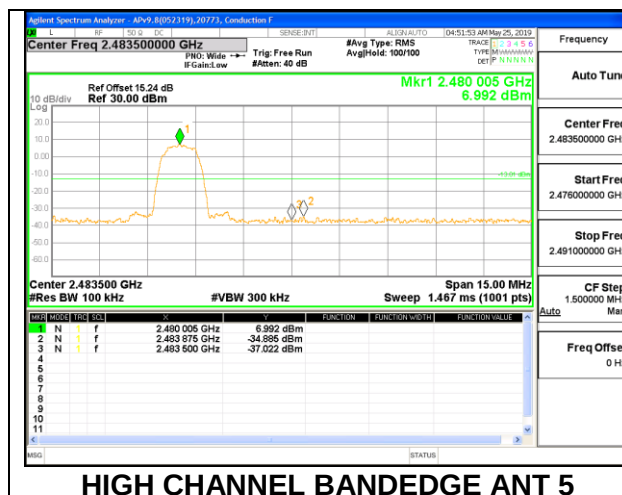
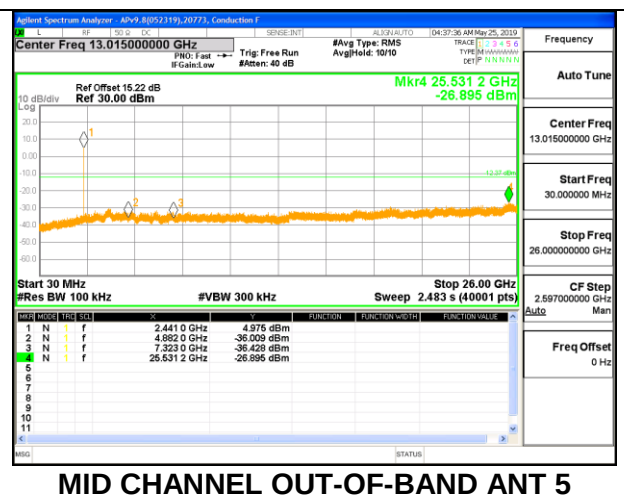
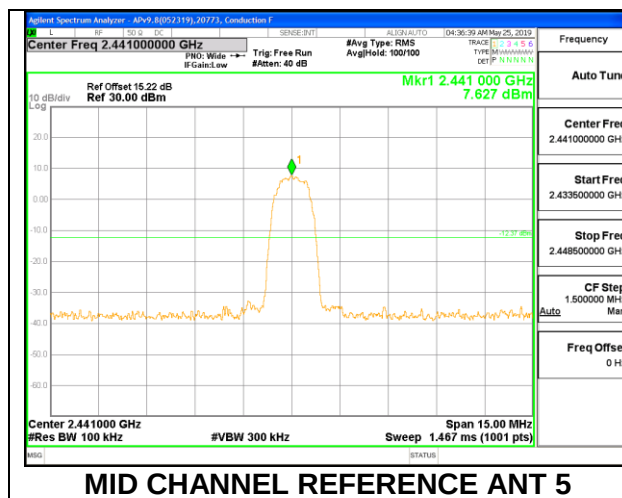
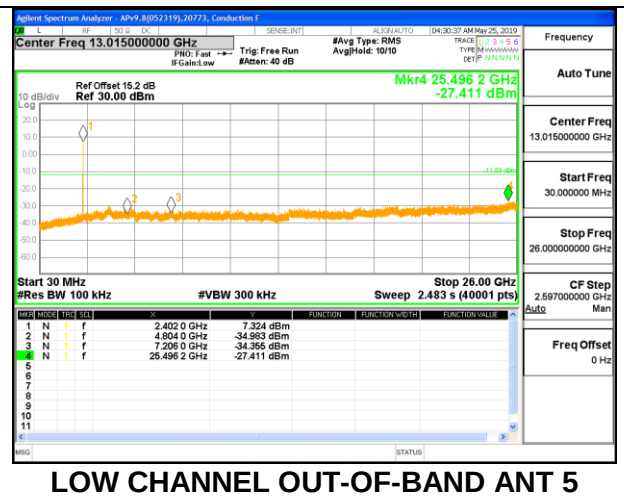
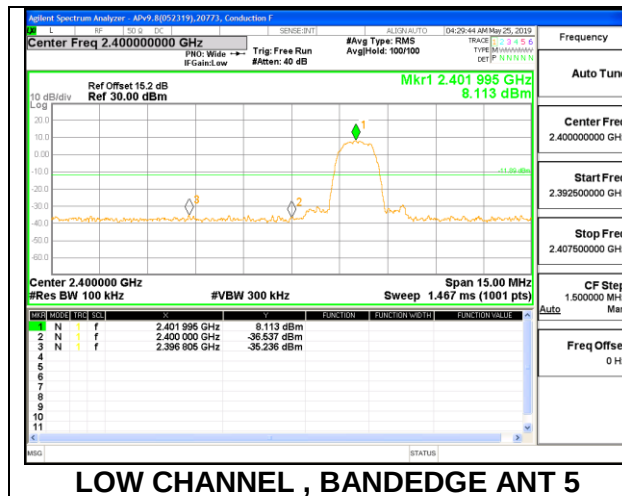


Antenna 5

Note: Test procedures and setting on beamforming mode are same as BT basic and EDR mode

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.

For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.

KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

KDB 558074 D01 15.247 Meas Guidance v05r02

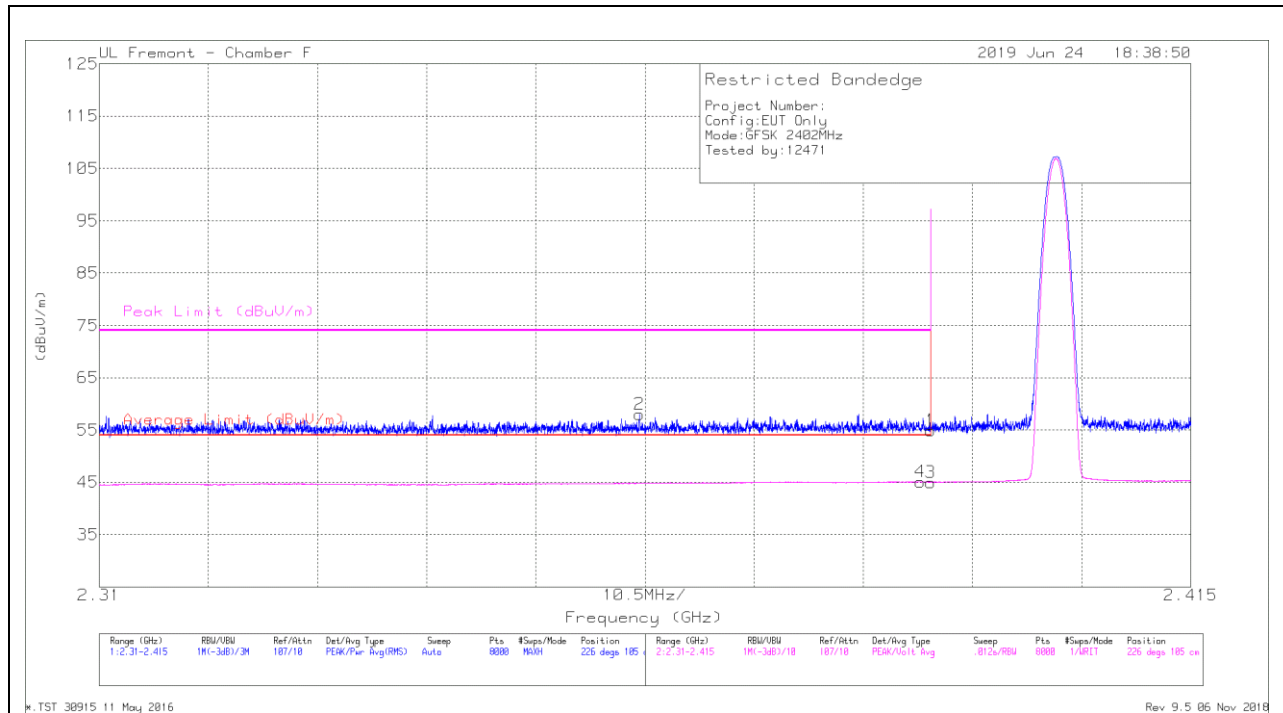
Use of a duty cycle correction factor (DCCF) is permitted for calculating average radiated field strength emission levels for an FHSS device in 15.247. This DCCF can be applied when the field strength limit (e.g., within a Government Restricted band) and the conditions specified in Section 15.35(c) can be satisfied. The average radiated field strength is calculated by subtracting the DCCF from the maximum radiated field strength level as determined through measurement. The maximum radiated field strength level represents the worst-case (maximum amplitude) RMS measurement of the emission(s) during continuous transmission (i.e., not including any time intervals during which the transmitter is off or is transmitting at a reduced power level). It is also acceptable to apply the DCCF to a measurement performed with a peak detector instead of the specified RMS power averaging detector. Note that Section 15.35(c) specifies that the DCCF shall represent the worst-case (greatest duty cycle) over any 100 msec transmission period.

9.1. TRANSMITTER ABOVE 1 GHz

9.1.1. ANTENNA 2, HIGH POWER BASIC DATA RATE GFSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL 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	* 2.39	37.41	Pk	32	-14.5	54.91	-	-	74	-19.09	226	105	H
2	* 2.362	40.62	Pk	31.8	-14.4	58.02	-	-	74	-15.98	226	105	H
3	* 2.39	27.5	VA1T	32	-14.5	45	54	-9	-	-	226	105	H
4	* 2.389	27.58	VA1T	32	-14.5	45.08	54	-8.92	-	-	226	105	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

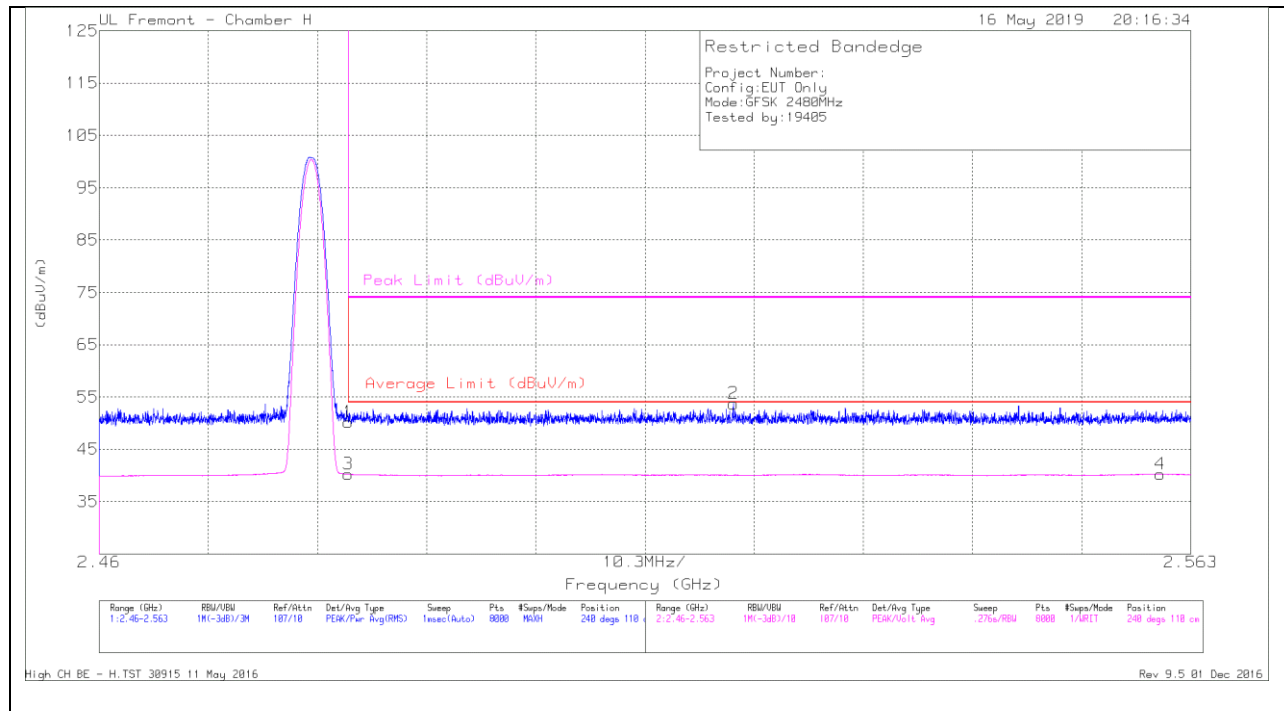


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.66	Pk	32	-14.5	55.16	-	-	74	-18.84	169	220	V
2	* 2.381	40.56	Pk	31.9	-14.5	57.96	-	-	74	-16.04	169	220	V
3	* 2.39	27.61	VA1T	32	-14.5	45.11	54	-8.89	-	-	169	220	V
4	* 2.389	27.64	VA1T	32	-14.5	45.14	54	-8.86	-	-	169	220	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**

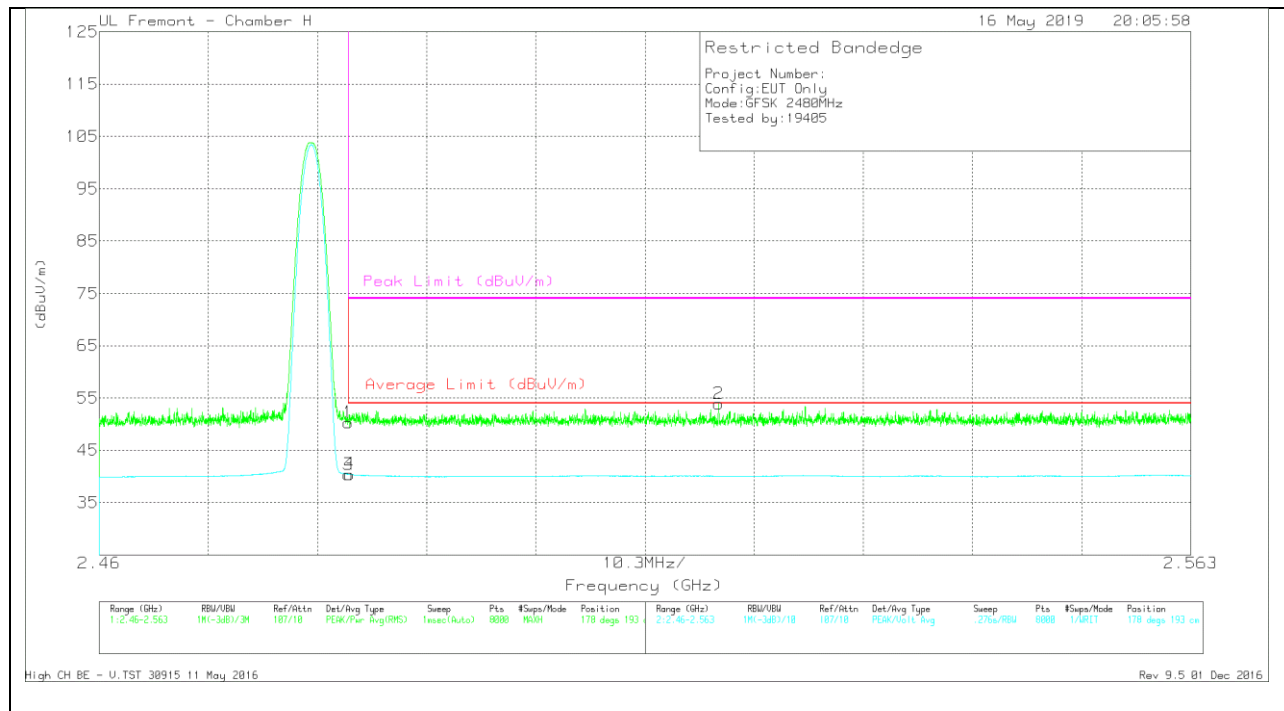
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT136 (dB/m)	Amp/Cb/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.18	Pk	32.3	-23.3	50.18	-	-	74	-23.82	240	110	H
3	* 2.484	31.23	VA1T	32.3	-23.3	40.23	54	-13.77	-	-	240	110	H
2	2.52	44.61	Pk	32.3	-23.2	53.71	-	-	74	-20.29	240	110	H
4	2.56	30.98	VA1T	32.4	-23.1	40.28	54	-13.72	-	-	240	110	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

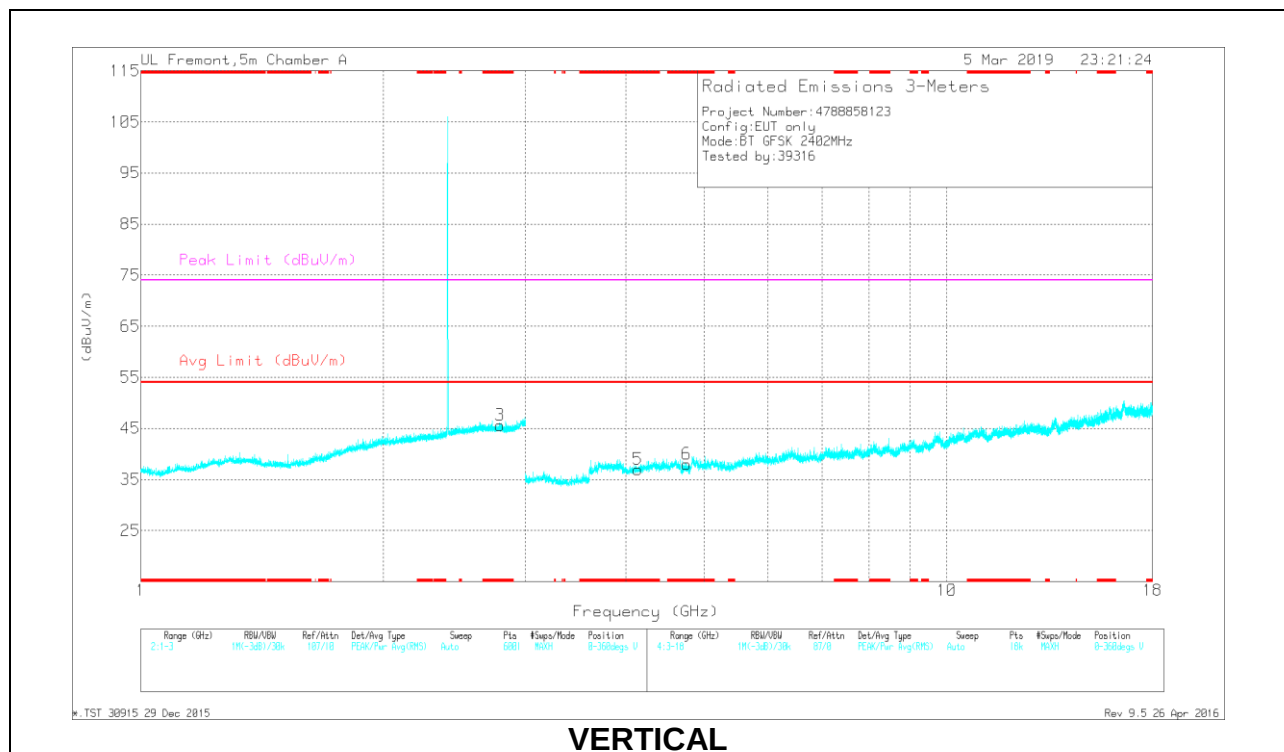
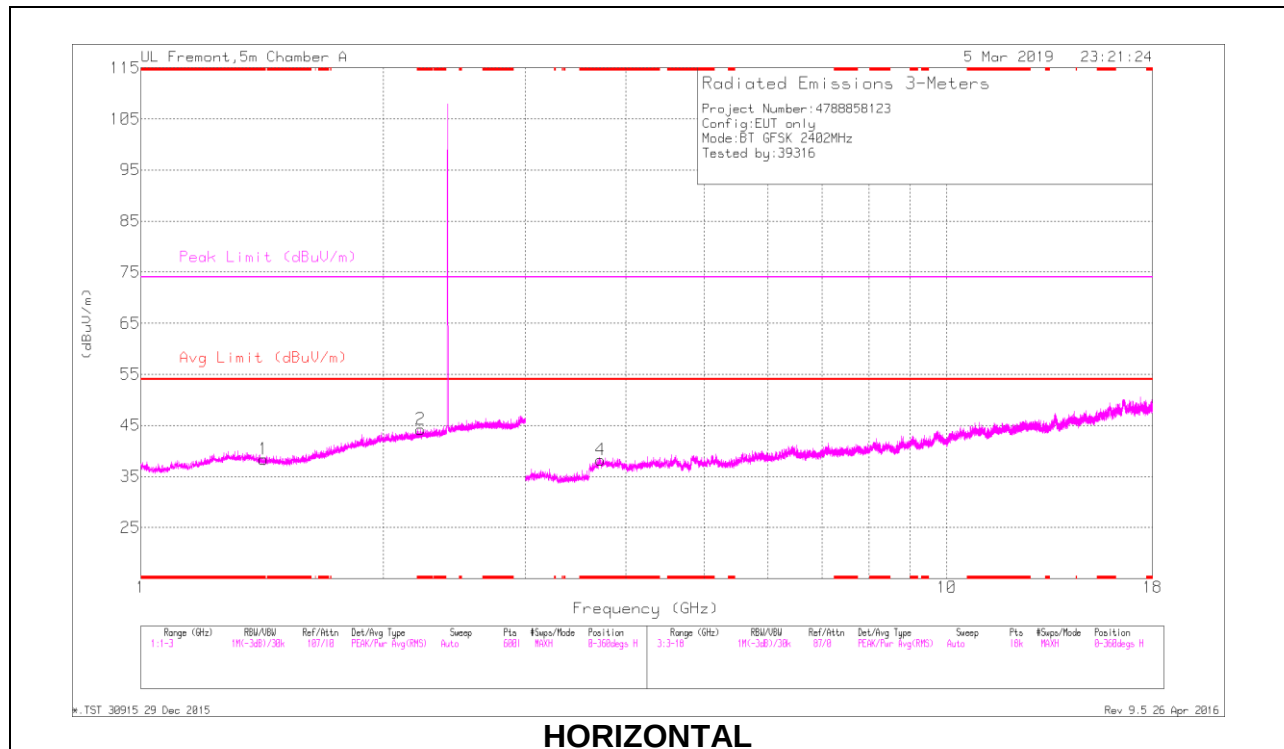


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtz/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.24	Pk	32.3	-23.3	50.24	-	-	74	-23.76	178	193	V
3	* 2.484	31.4	VA1T	32.3	-23.3	40.4	54	-13.6	-	-	178	193	V
4	* 2.484	31.42	VA1T	32.3	-23.3	40.42	54	-13.58	-	-	178	193	V
2	2.518	44.76	Pk	32.3	-23.2	53.86	-	-	74	-20.14	178	193	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

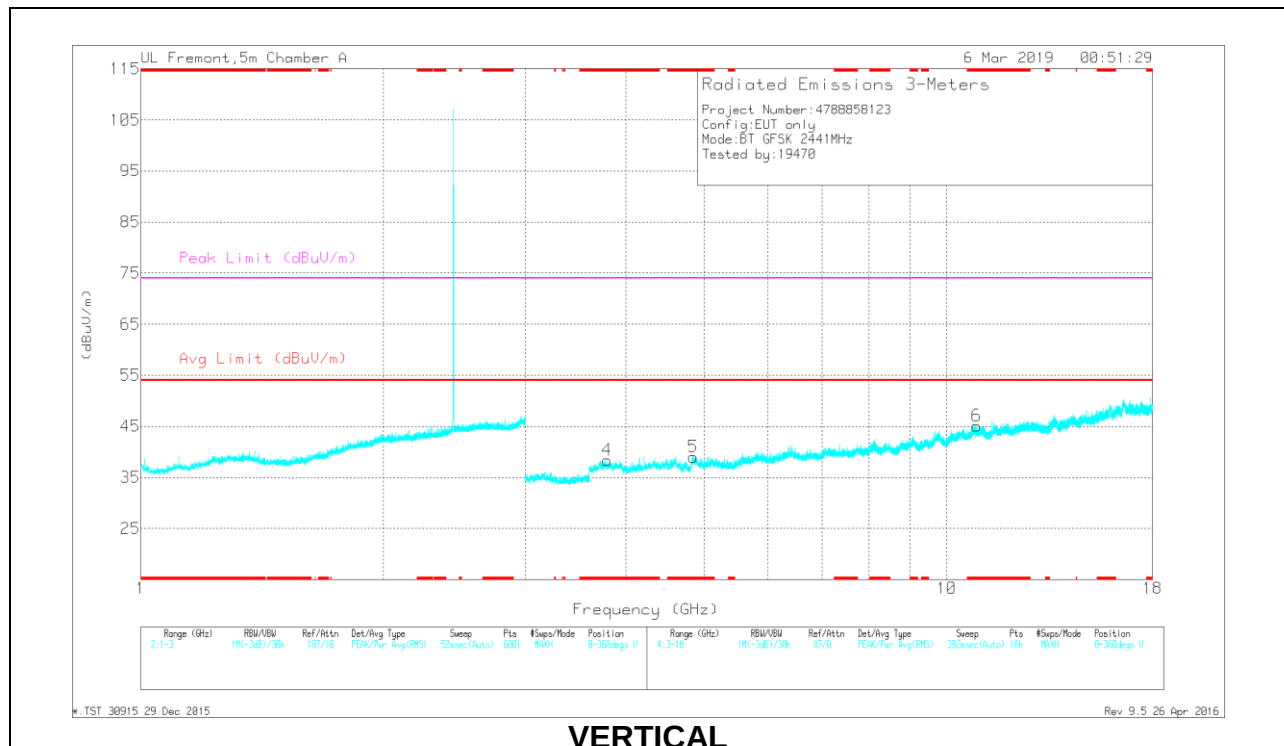
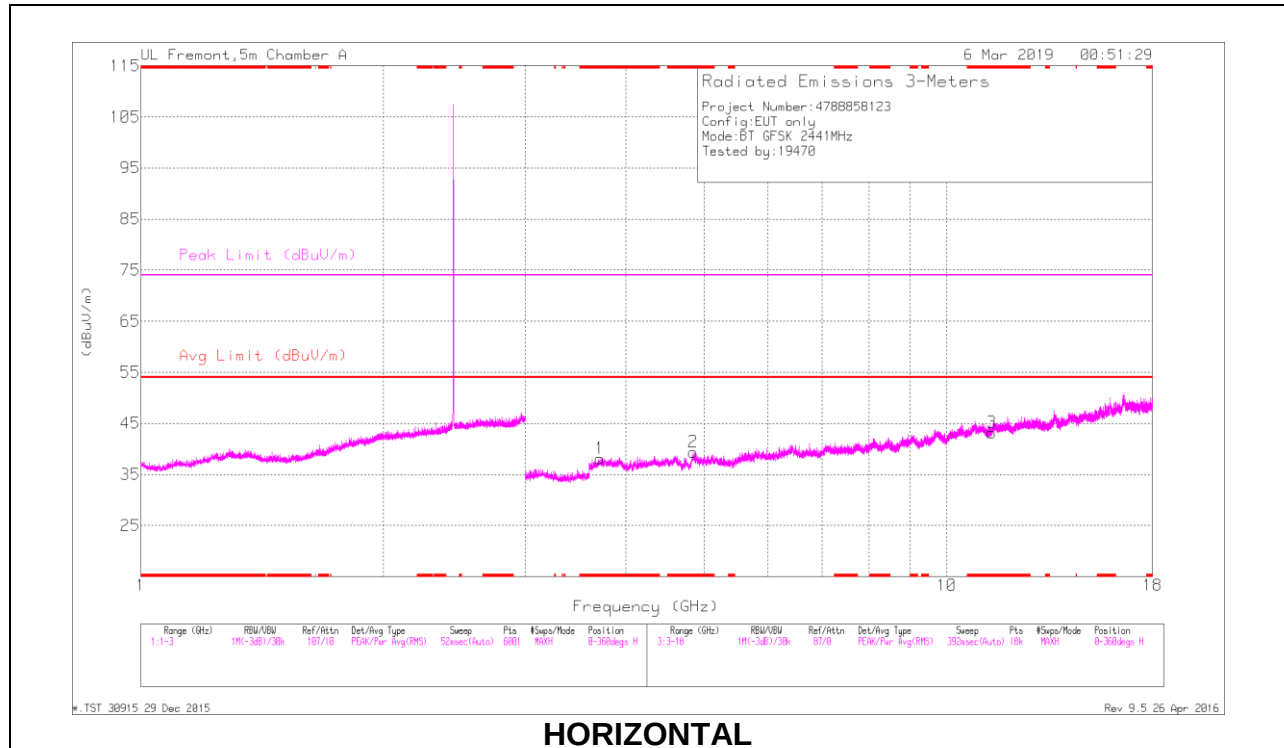
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.423	41.72	PKFH	28.3	-24.9	45.12	-	-	74	-28.88	316	384	H
	* 1.421	29.49	VA1T	28.3	-24.8	32.99	54	-21.01	-	-	316	384	H
2	* 2.223	40.7	PKFH	31.6	-22.9	49.4	-	-	74	-24.6	0	251	H
	* 2.222	29.24	VA1T	31.6	-22.9	37.94	54	-16.06	-	-	0	251	H
3	* 2.792	40.28	PKFH	32.4	-22.1	50.58	-	-	74	-23.42	297	145	V
	* 2.792	29.39	VA1T	32.4	-22.1	39.69	54	-14.31	-	-	297	145	V
4	* 3.717	38.61	PKFH	33.2	-28.6	43.21	-	-	74	-30.79	199	245	H
	* 3.717	27.39	VA1T	33.2	-28.6	31.99	54	-22.01	-	-	199	245	H
5	* 4.137	38.49	PKFH	33.7	-28.8	43.39	-	-	74	-30.61	285	241	V
	* 4.14	26.89	VA1T	33.7	-28.9	31.69	54	-22.31	-	-	285	241	V
6	* 4.753	37.42	PKFH	34.1	-28.1	43.42	-	-	74	-30.58	224	152	V
	* 4.751	26.55	VA1T	34.1	-28.2	32.45	54	-21.55	-	-	224	152	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

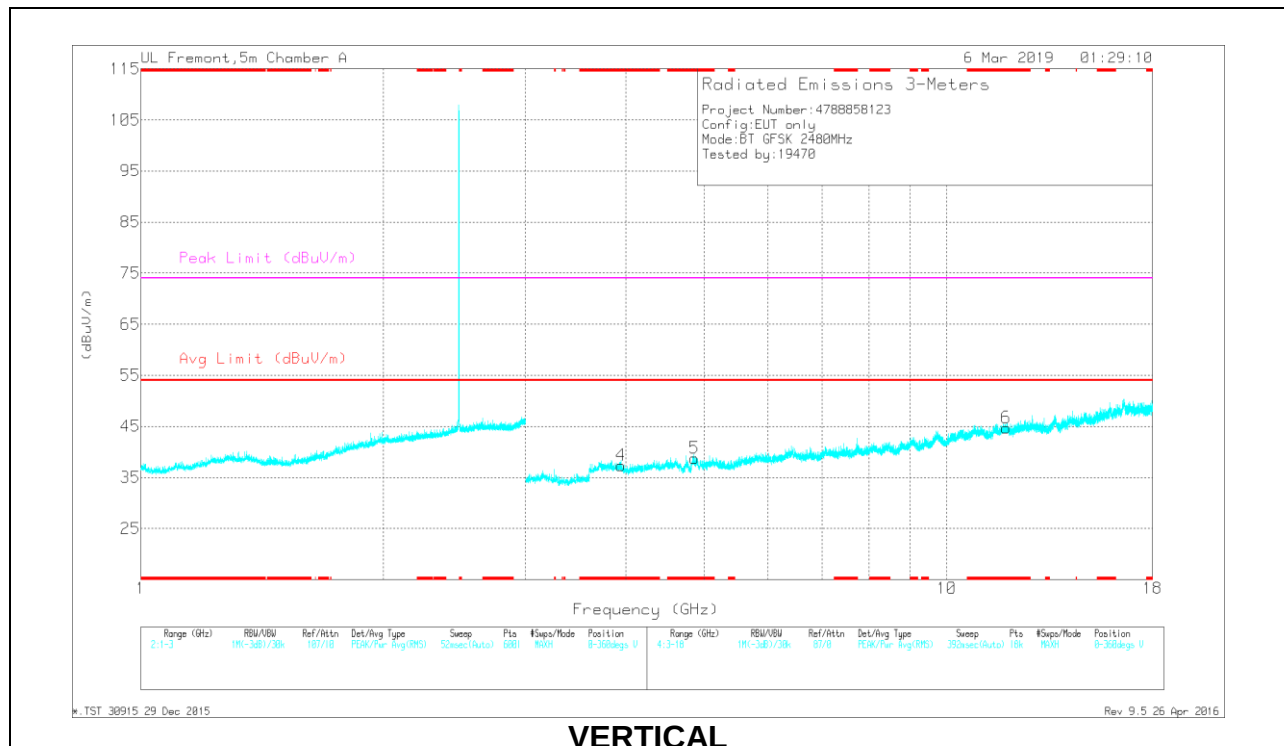
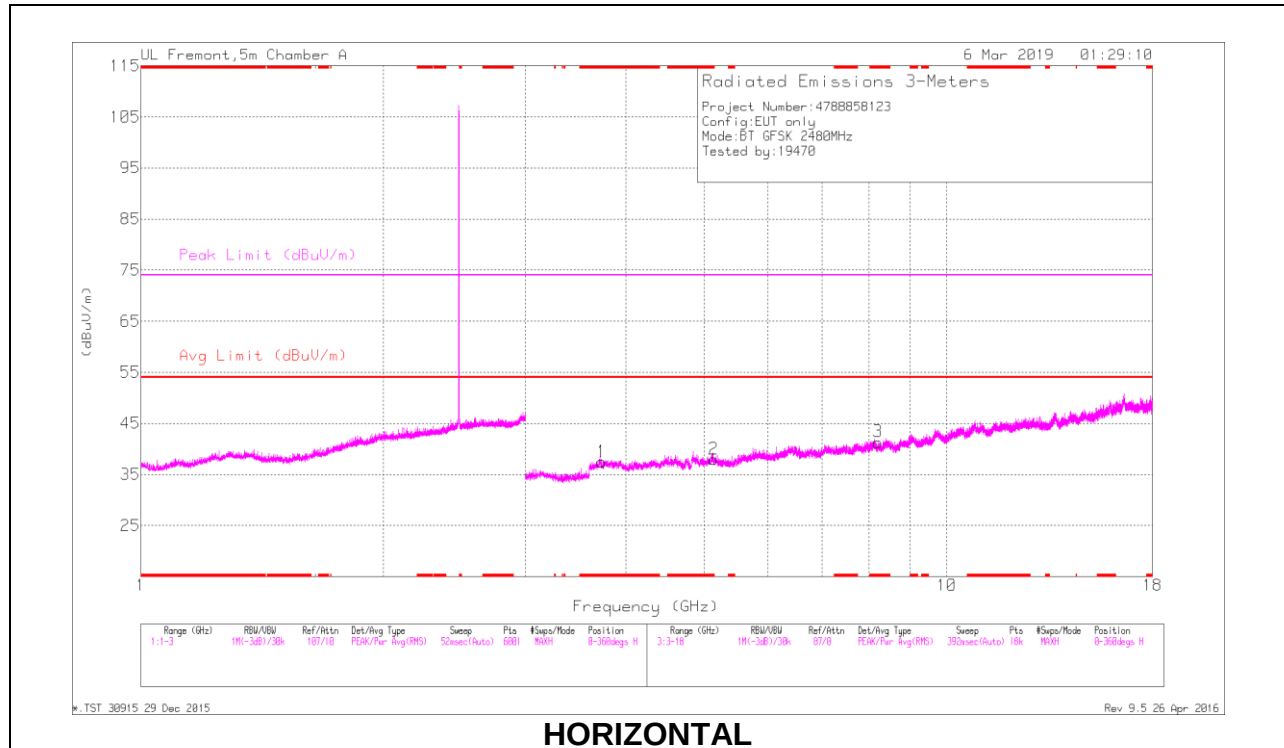
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.711	39.98	PKFH	33.2	-28.6	44.58	-	-	74	-29.42	181	200	H
	* 3.712	27.86	VA1T	33.2	-28.6	32.46	54	-21.54	-	-	181	200	H
2	* 4.844	38.58	PKFH	34.1	-27	45.68	-	-	74	-28.32	167	177	H
	* 4.846	26.87	VA1T	34.1	-27	33.97	54	-20.03	-	-	167	177	H
3	* 11.373	33	PKFH	38.1	-20.1	51	-	-	74	-23	206	219	H
	* 11.371	21.2	VA1T	38.1	-20.1	39.2	54	-14.8	-	-	206	219	H
4	* 3.789	39.4	PKFH	33.5	-29.2	43.7	-	-	74	-30.3	173	209	V
	* 3.788	28.01	VA1T	33.5	-29.2	32.31	54	-21.69	-	-	173	209	V
5	* 4.842	37.51	PKFH	34.1	-27	44.61	-	-	74	-29.39	199	174	V
	* 4.844	26.94	VA1T	34.1	-27	34.04	54	-19.96	-	-	199	174	V
6	* 10.896	33.42	PKFH	37.9	-20.3	51.02	-	-	74	-22.98	146	150	V
	* 10.897	21.68	VA1T	37.9	-20.3	39.28	54	-14.72	-	-	146	150	V

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

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

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

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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	* 3.733	39.05	PKFH	33.3	-28.8	43.55	-	-	74	-30.45	146	200	H
	* 3.734	27.42	VA1T	33.3	-28.8	31.92	54	-22.08	-	-	146	200	H
2	* 5.135	36.76	PKFH	34.2	-27.2	43.76	-	-	74	-30.24	167	179	H
	* 5.135	26.02	VA1T	34.2	-27.2	33.02	54	-20.98	-	-	167	179	H
3	* 8.214	34.28	PKFH	35.9	-23.1	47.08	-	-	74	-26.92	199	234	H
	* 8.21	22.7	VA1T	35.8	-23.1	35.4	54	-18.6	-	-	199	234	H
4	* 3.945	38.76	PKFH	33.6	-28.8	43.56	-	-	74	-30.44	223	206	V
	* 3.946	27.34	VA1T	33.6	-28.8	32.14	54	-21.86	-	-	223	206	V
5	* 4.867	36.84	PKFH	34.1	-26.9	44.04	-	-	74	-29.96	238	248	V
	* 4.866	25.64	VA1T	34.1	-27	32.74	54	-21.26	-	-	238	248	V
6	* 11.848	32.7	PKFH	38.6	-20	51.3	-	-	74	-22.7	192	228	V
	* 11.85	21.17	VA1T	38.6	-20.1	39.67	54	-14.33	-	-	192	228	V

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

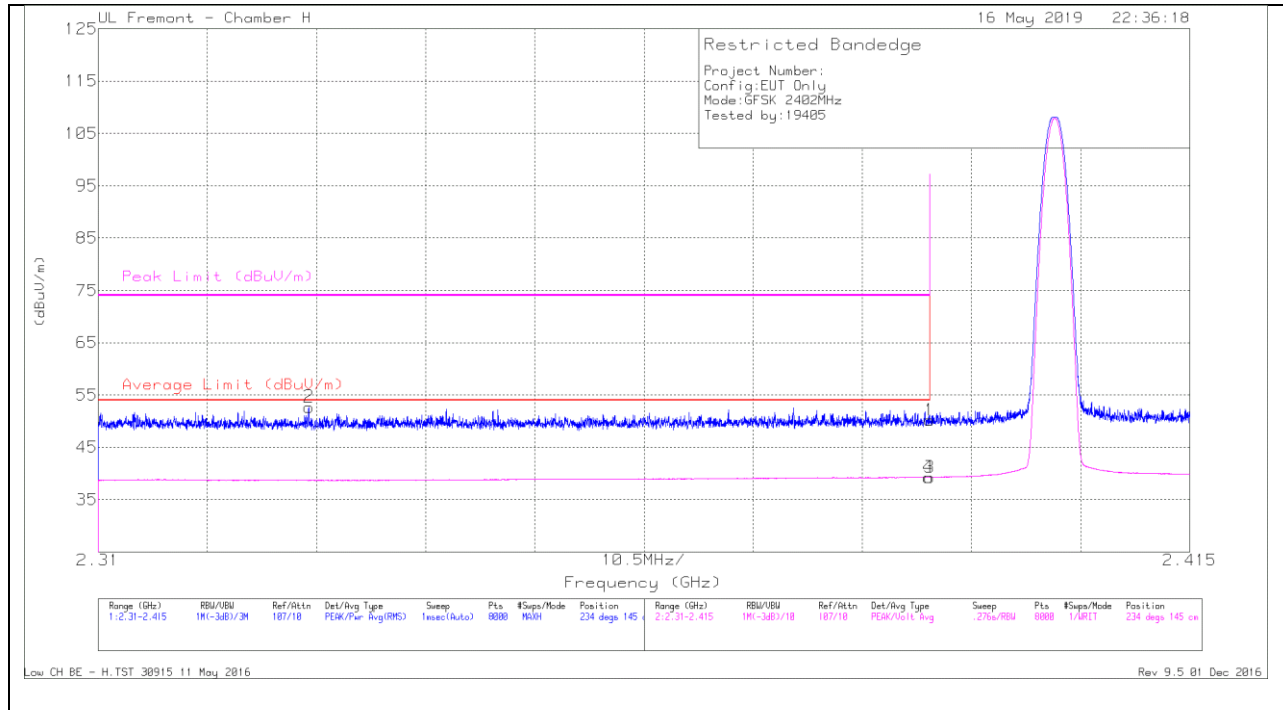
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

9.1.2. ANTENNA 5, HIGH POWER BASIC DATA RATE GFSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



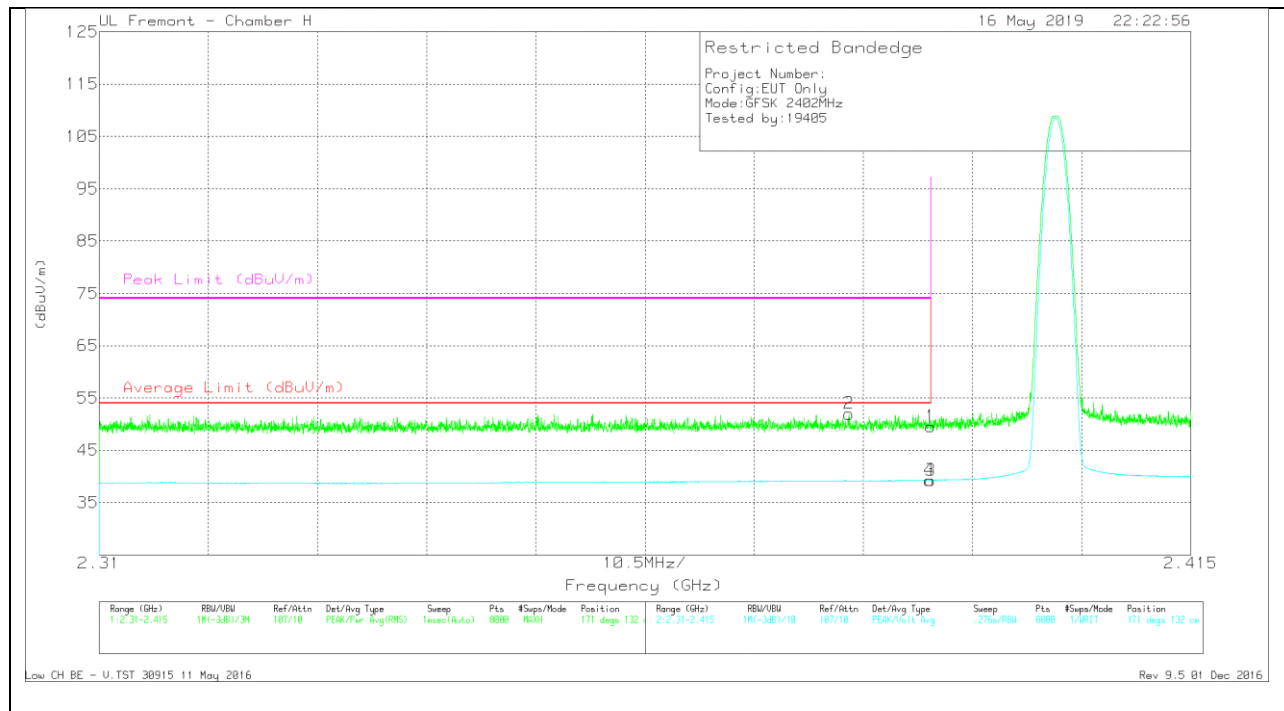
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	42.11	Pk	31.6	-23.5	50.21	-	-	74	-23.79	234	145	H
2	* 2.33	45.01	Pk	31.3	-23.6	52.71	-	-	74	-21.29	234	145	H
3	* 2.39	31.16	VA1T	31.6	-23.5	39.26	54	-14.74	-	-	234	145	H
4	* 2.39	31.19	VA1T	31.6	-23.5	39.29	54	-14.71	-	-	234	145	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

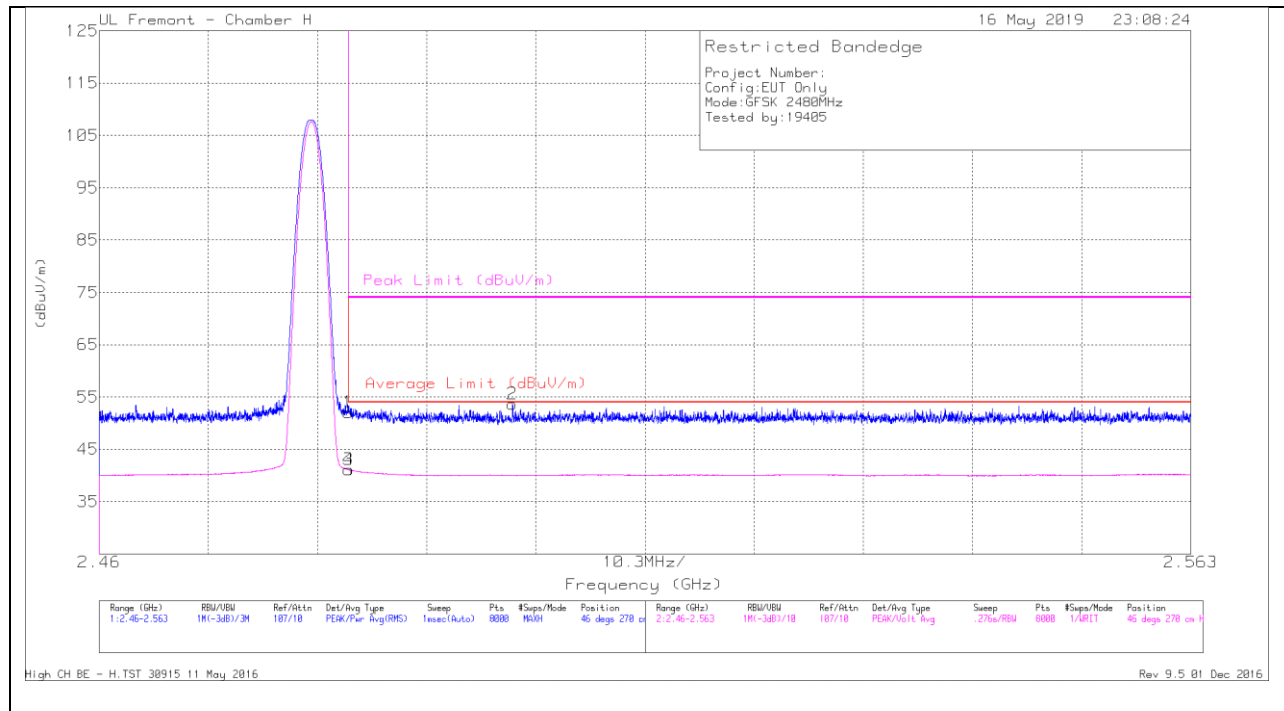


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.47	Pk	31.6	-23.5	49.57	-	-	74	-24.43	171	132	V
2	* 2.382	43.87	Pk	31.6	-23.5	51.97	-	-	74	-22.03	171	132	V
3	* 2.39	31.16	VA1T	31.6	-23.5	39.26	54	-14.74	-	-	171	132	V
4	* 2.39	31.2	VA1T	31.6	-23.5	39.3	54	-14.7	-	-	171	132	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**

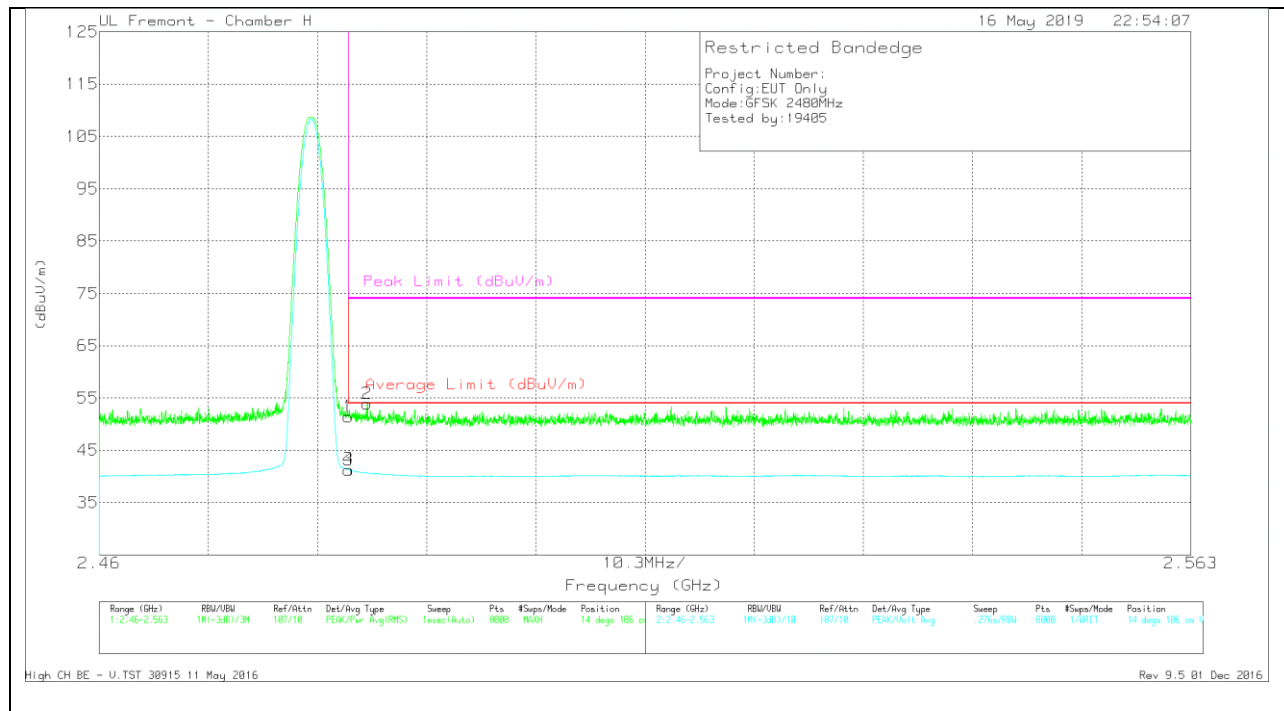
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1	* 2.484	43.04	Pk	32.3	-23.3	52.04	-	-	74	-21.96	46	270	H
2	* 2.499	44.68	Pk	32.3	-23.3	53.68	-	-	74	-20.32	46	270	H
3	* 2.484	32.11	VA1T	32.3	-23.3	41.11	54	-12.89	-	-	46	270	H
4	* 2.484	32.09	VA1T	32.3	-23.3	41.09	54	-12.91	-	-	46	270	H

* - 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/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	42.45	Pk	32.3	-23.3	51.45	-	-	74	-22.55	14	106	V
2	* 2.485	44.88	Pk	32.3	-23.3	53.88	-	-	74	-20.12	14	106	V
3	* 2.484	32.29	VA1T	32.3	-23.3	41.29	54	-12.71	-	-	14	106	V
4	* 2.484	32.29	VA1T	32.3	-23.3	41.29	54	-12.71	-	-	14	106	V

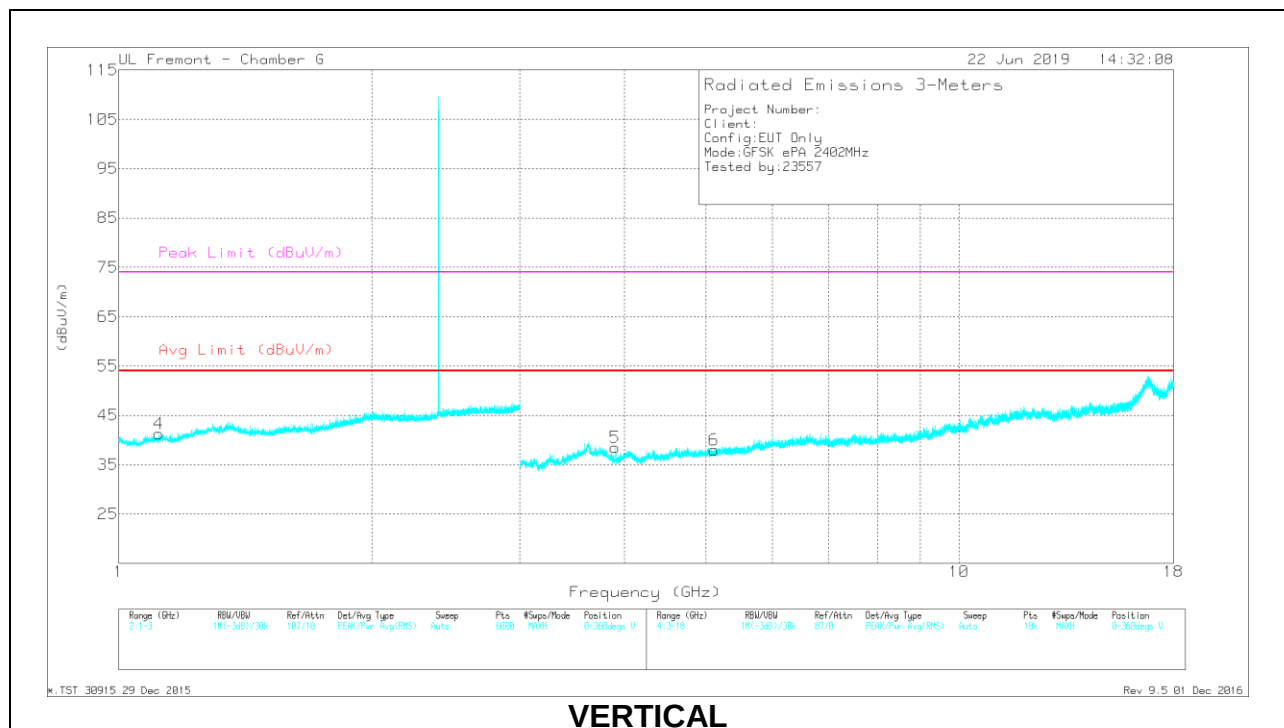
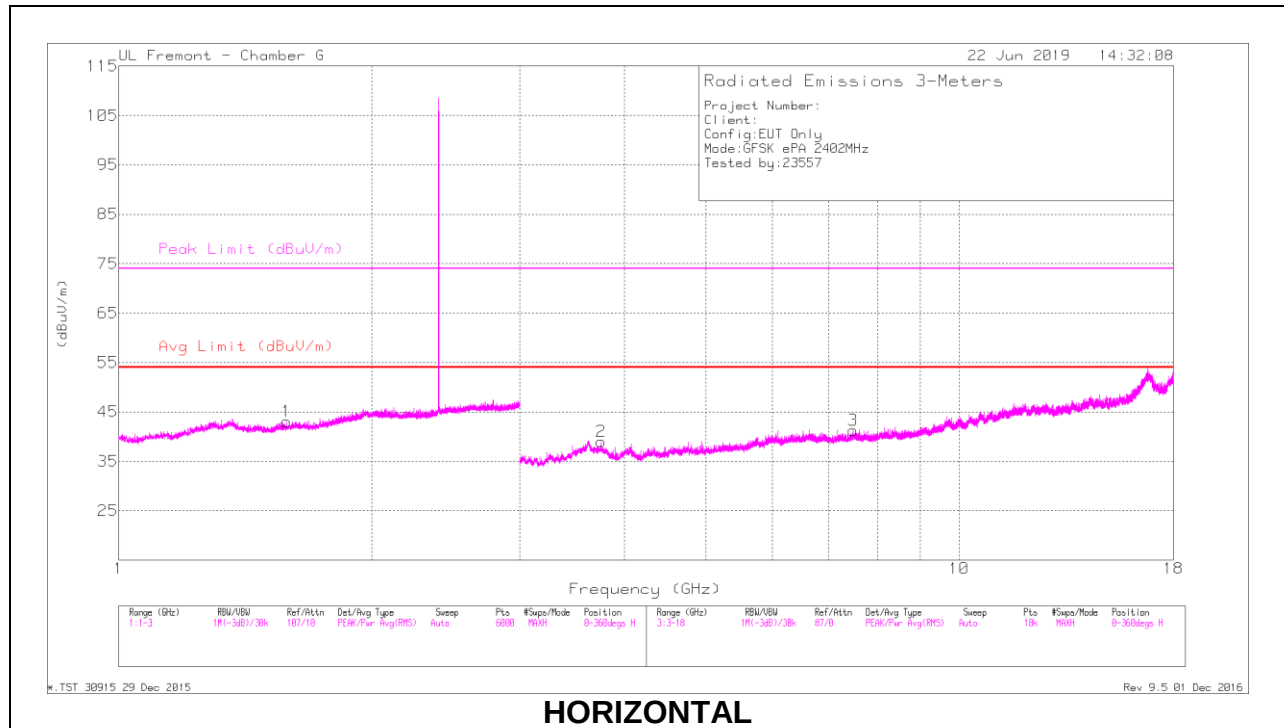
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

High CH BE - V.TST 30915 11 May 2016

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL RESULTS**

RADIATED EMISSIONS

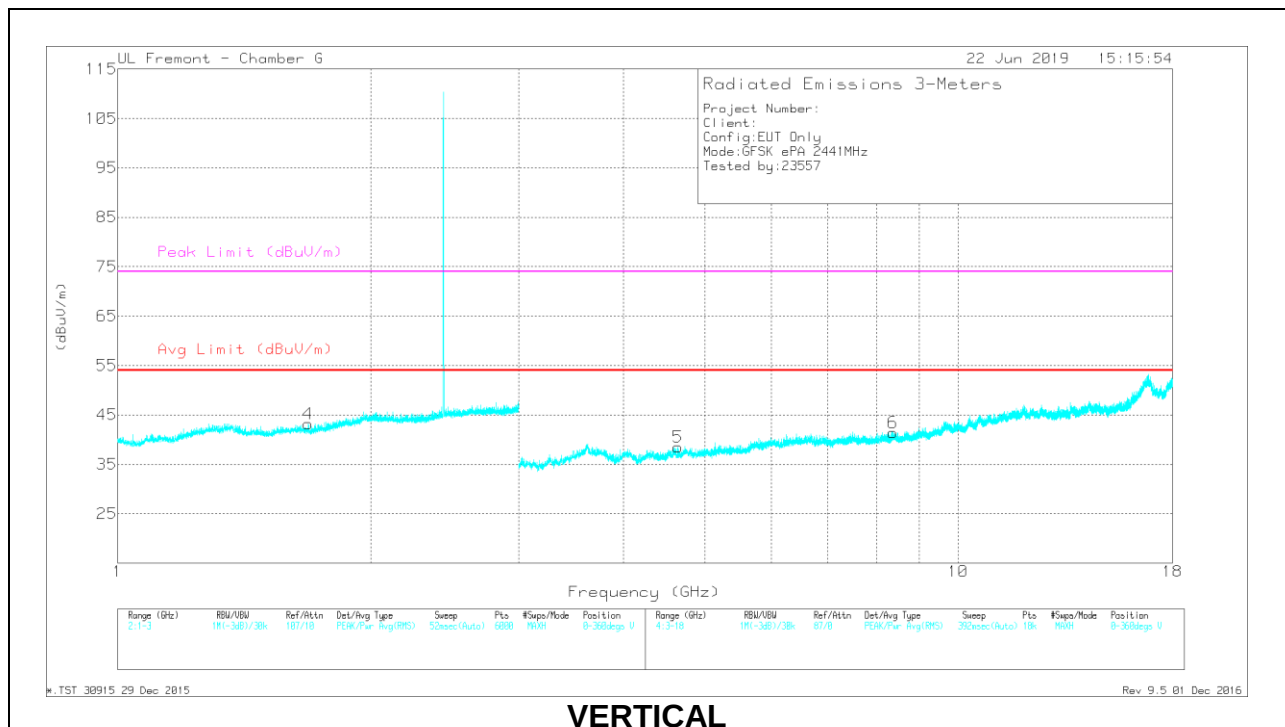
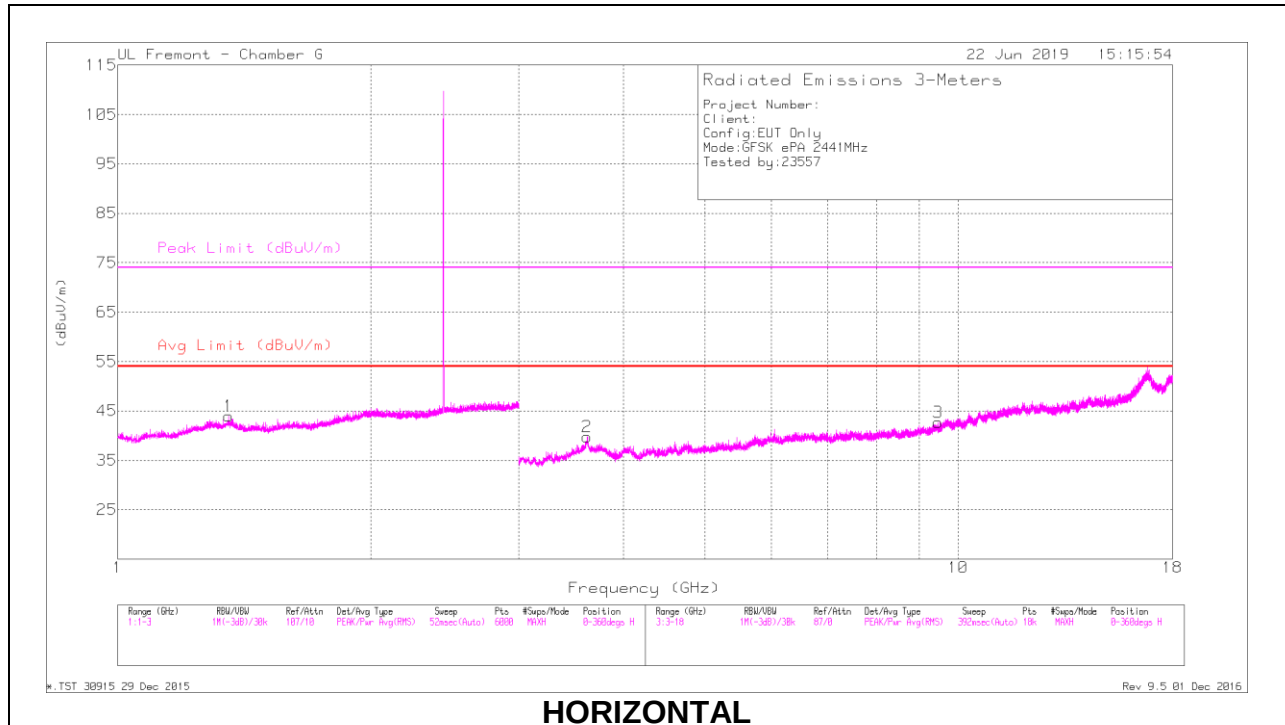
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dB uV/m)	Margin (dB)	Peak Limit (dB uV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
	* 1.585	42.15	PKFH	27.9	-21.3	48.75	-	-	74	-25.25	360	170	H
1	* 1.583	29.98	VA1T	27.9	-21.3	36.58	54	-17.42	-	-	360	170	H
	* 1.117	42.57	PKFH	27.9	-23.8	46.67	-	-	74	-27.33	225	164	V
4	* 1.117	30.68	VA1T	27.9	-23.8	34.78	54	-19.22	-	-	225	164	V
	* 3.753	38.38	PKFH	33.8	-28.9	43.28	-	-	74	-30.72	36	103	H
2	* 3.755	26.95	VA1T	33.8	-28.9	31.85	54	-22.15	-	-	36	103	H
	* 7.484	37.66	PKFH	35.9	-27.3	46.26	-	-	74	-27.74	333	174	H
3	* 7.484	26.14	VA1T	35.9	-27.3	34.74	54	-19.26	-	-	333	174	H
	* 3.895	39.7	PKFH	33.6	-30.5	42.8	-	-	74	-31.2	332	250	V
5	* 3.897	28.01	VA1T	33.6	-30.4	31.21	54	-22.79	-	-	332	250	V
	* 5.114	39.39	PKFH	34.4	-29.4	44.39	-	-	74	-29.61	127	248	V
6	* 5.115	27.31	VA1T	34.4	-29.4	32.31	54	-21.69	-	-	127	248	V

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

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

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

MID CHANNEL RESULTS



RADIATED EMISSIONS

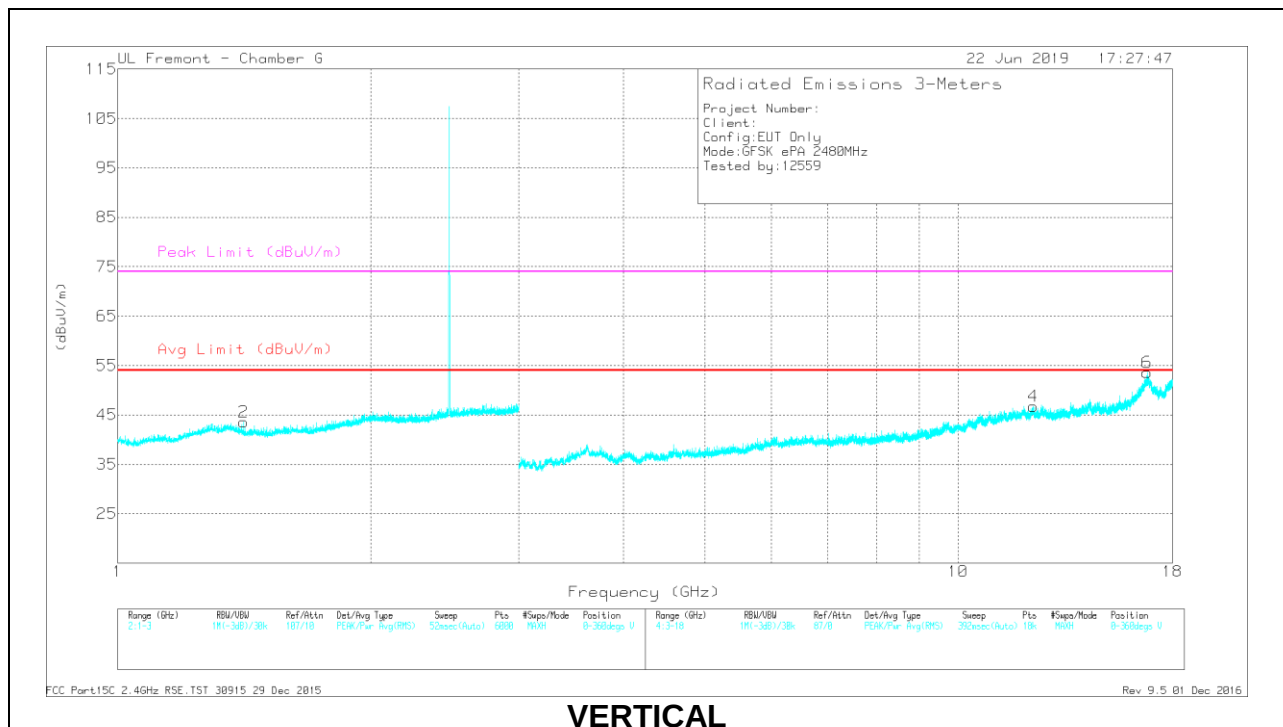
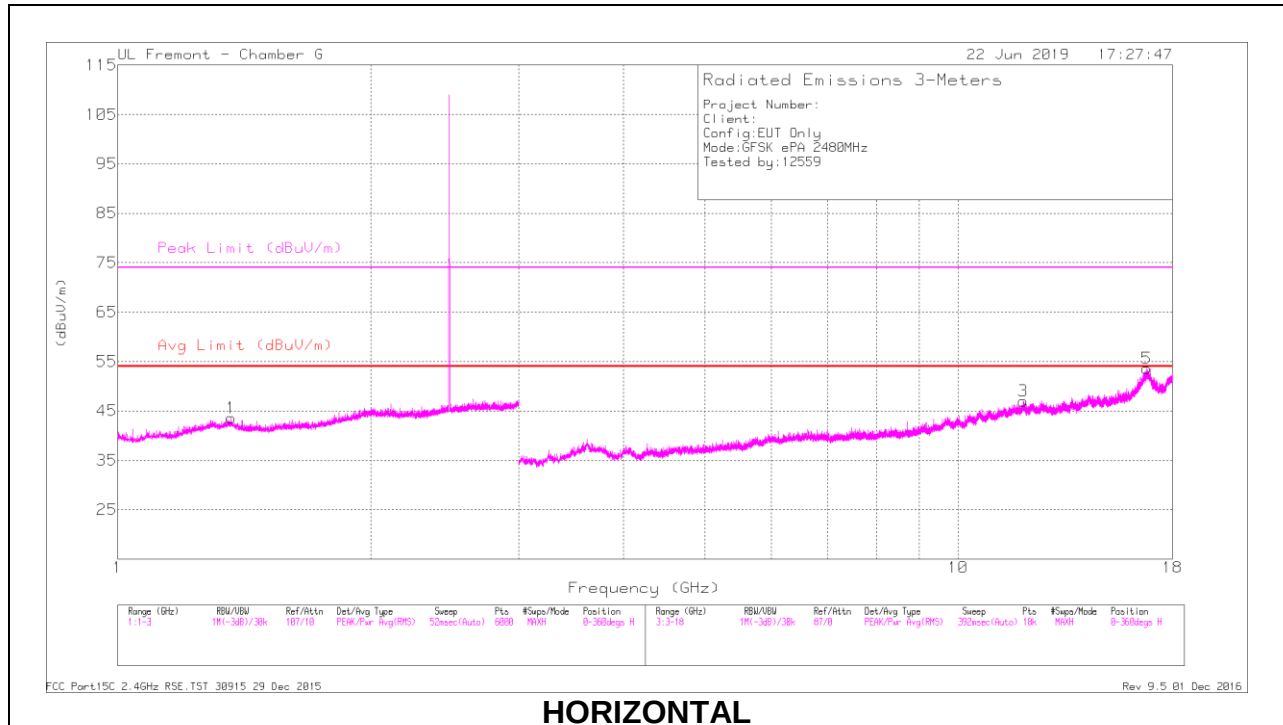
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dB uV/m)	Margin (dB)	Peak Limit (dB uV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
	* 1.353	42.22	PKFH	30	-23.3	48.92	-	-	74	-25.08	282	392	H
1	* 1.355	30.63	VA1T	30	-23.3	37.33	54	-16.67	-	-	282	392	H
	* 1.688	41.52	PKFH	28.3	-21.7	48.12	-	-	74	-25.88	328	179	V
4	* 1.688	29.85	VA1T	28.3	-21.7	36.45	54	-17.55	-	-	328	179	V
	* 3.62	39.65	PKFH	35.7	-30	45.35	-	-	74	-28.65	77	151	H
2	* 3.622	27.18	VA1T	35.7	-29.9	32.98	54	-21.02	-	-	77	151	H
	* 9.475	36.92	PKFH	37.2	-25.9	48.22	-	-	74	-25.78	296	353	H
3	* 9.474	24.84	VA1T	37.2	-25.9	36.14	54	-17.86	-	-	296	353	H
	* 4.646	39.22	PKFH	34.2	-29.6	43.82	-	-	74	-30.18	113	304	V
5	* 4.646	26.95	VA1T	34.2	-29.6	31.55	54	-22.45	-	-	113	304	V
	* 8.375	37.11	PKFH	36.1	-26.2	47.01	-	-	74	-26.99	356	211	V
6	* 8.371	25.48	VA1T	36.1	-26.2	35.38	54	-18.62	-	-	356	211	V

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

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

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

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dB uV/m)	Margin (dB)	Peak Limit (dB uV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.367	42.18	PKFH	30	-23.2	48.98	-	-	74	-25.02	6	113	H
	* 1.364	30.37	VA1T	30	-23.2	37.17	54	-16.83	-	-	6	113	H
2	* 1.41	41.99	PKFH	28.8	-22.9	47.89	-	-	74	-26.11	194	320	V
	* 1.413	30.58	VA1T	28.8	-22.9	36.48	54	-17.52	-	-	194	320	V
3	* 11.953	35.5	PKFH	39.4	-22	52.9	-	-	74	-21.1	355	112	H
	* 11.952	23.02	VA1T	39.5	-22	40.52	54	-13.48	-	-	355	112	H
4	* 12.291	35.18	PKFH	39.5	-22.3	52.38	-	-	74	-21.62	126	183	V
	* 12.292	23.47	VA1T	39.5	-22.4	40.57	54	-13.43	-	-	126	183	V
5	16.783	23.54	VA1T	41.8	-17.5	47.84	-	-	-	-	61	173	H
	16.786	35.6	PKFH	41.7	-17.5	59.8	-	-	-	-	61	173	H
6	16.788	22.48	VA1T	41.7	-17.4	46.78	-	-	-	-	343	280	V
	16.791	34.66	PKFH	41.7	-17.4	58.96	-	-	-	-	343	280	V

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

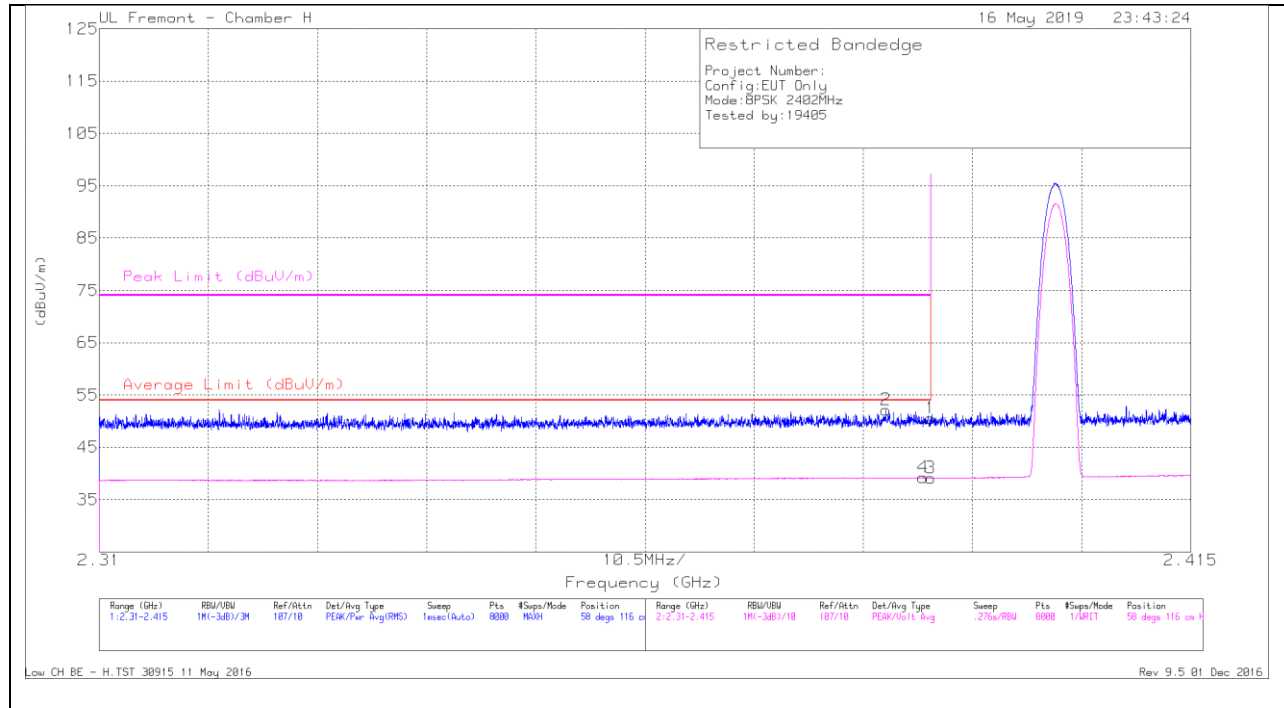
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

9.1.3. ANTENNA 2, HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



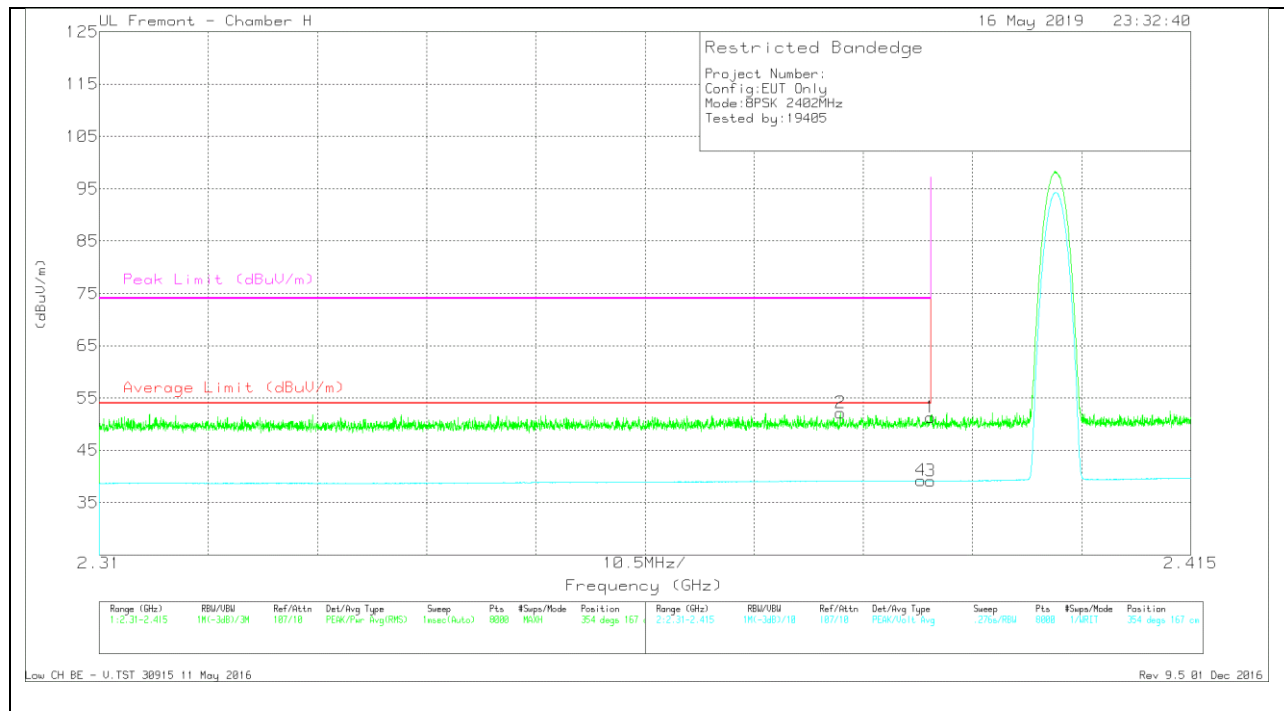
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	42.43	Pk	31.6	-23.5	50.53	-	-	74	-23.47	58	116	H
2	* 2.386	44.01	Pk	31.6	-23.5	52.11	-	-	74	-21.89	58	116	H
3	* 2.39	31.06	VA1T	31.6	-23.5	39.16	54	-14.84	-	-	58	116	H
4	* 2.389	31.1	VA1T	31.6	-23.5	39.2	54	-14.8	-	-	58	116	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

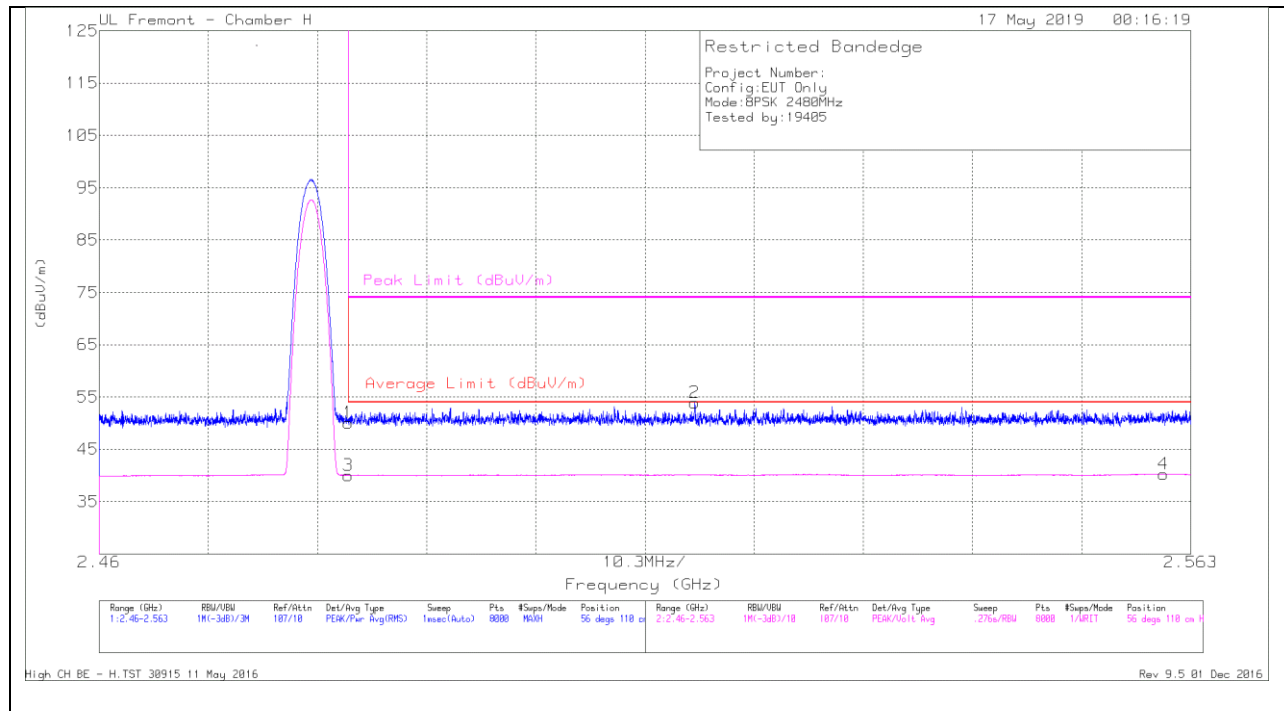


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	43.22	Pk	31.6	-23.5	51.32	-	-	74	-22.68	354	167	V
2	* 2.381	44.02	Pk	31.6	-23.5	52.12	-	-	74	-21.88	354	167	V
3	* 2.39	31.05	VA1T	31.6	-23.5	39.15	54	-14.85	-	-	354	167	V
4	* 2.389	31.09	VA1T	31.6	-23.5	39.19	54	-14.81	-	-	354	167	V

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

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/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	41.09	Pk	32.3	-23.3	50.09	-	-	74	-23.91	56	110	H
3	* 2.484	31.03	VA1T	32.3	-23.3	40.03	54	-13.97	-	-	56	110	H
2	2.516	44.74	Pk	32.3	-23.2	53.84	-	-	74	-20.16	56	110	H
4	2.56	30.97	VA1T	32.4	-23.1	40.27	54	-13.73	-	-	56	110	H

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

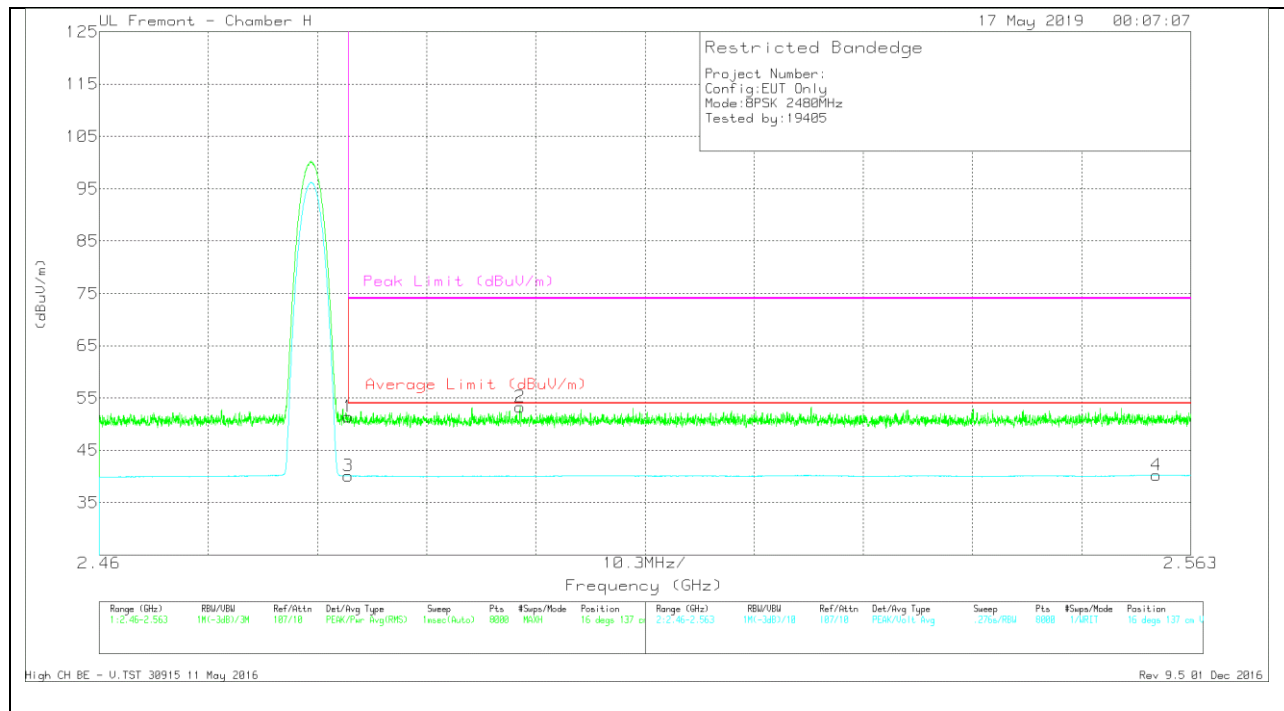
Pk - Peak detector

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

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VERTICAL RESULT

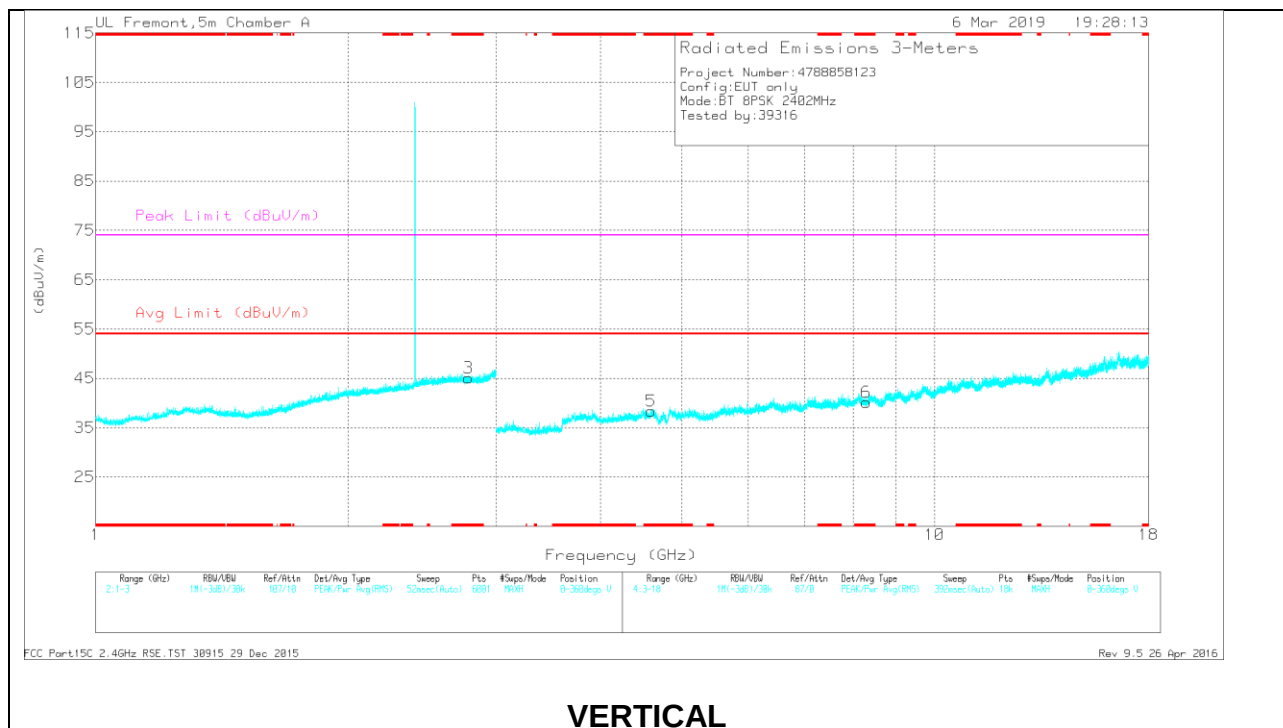
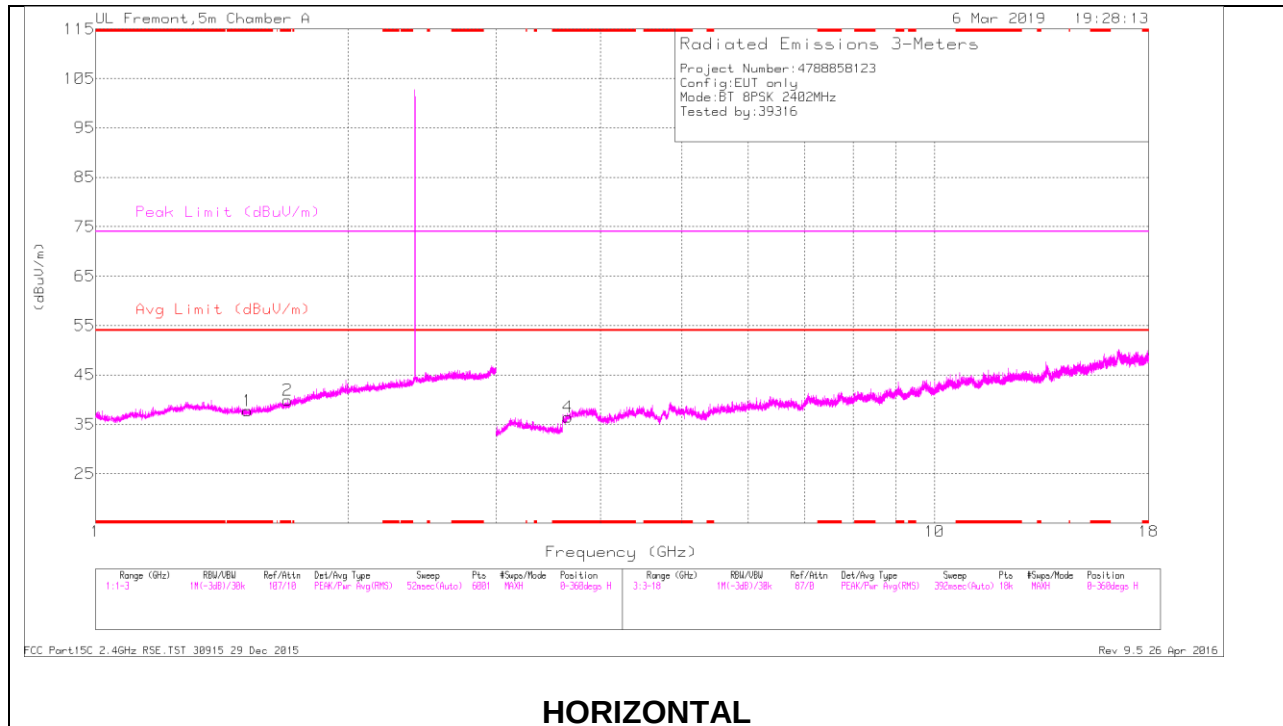


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.45	Pk	32.3	-23.3	51.45	-	-	74	-22.55	16	137	V
2	* 2.5	44.32	Pk	32.3	-23.3	53.32	-	-	74	-20.68	16	137	V
3	* 2.484	31.09	VA1T	32.3	-23.3	40.09	54	-13.91	-	-	16	137	V
4	2.56	30.98	VA1T	32.4	-23.1	40.28	54	-13.72	-	-	16	137	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

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dB uV/m)	Margin (dB)	Peak Limit (dB uV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.517	40.86	PKFH	27.8	-24.5	44.16	-	-	74	-29.84	110	268	H
	* 1.517	29.18	VA1T	27.8	-24.5	32.48	54	-21.52	-	-	110	268	H
2	* 1.692	40.17	PKFH	28.7	-23.9	44.97	-	-	74	-29.03	338	335	H
	* 1.694	28.97	VA1T	28.7	-23.9	33.77	54	-20.23	-	-	338	335	H
3	* 2.78	40.54	PKFH	32.4	-22.1	50.84	-	-	74	-23.16	278	249	V
	* 2.784	29.14	VA1T	32.4	-22.1	39.44	54	-14.56	-	-	278	249	V
4	* 3.655	38.54	PKFH	33.1	-29.1	42.54	-	-	74	-31.46	203	153	H
	* 3.656	27.12	VA1T	33.1	-29	31.22	54	-22.78	-	-	203	153	H
5	* 4.592	37.6	PKFH	34.2	-28	43.8	-	-	74	-30.2	93	172	V
	* 4.592	26.62	VA1T	34.2	-28	32.82	54	-21.18	-	-	93	172	V
6	* 8.297	34.6	PKFH	35.9	-23.9	46.6	-	-	74	-27.4	265	142	V
	* 8.296	23.14	VA1T	35.9	-23.9	35.14	54	-18.86	-	-	265	142	V

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

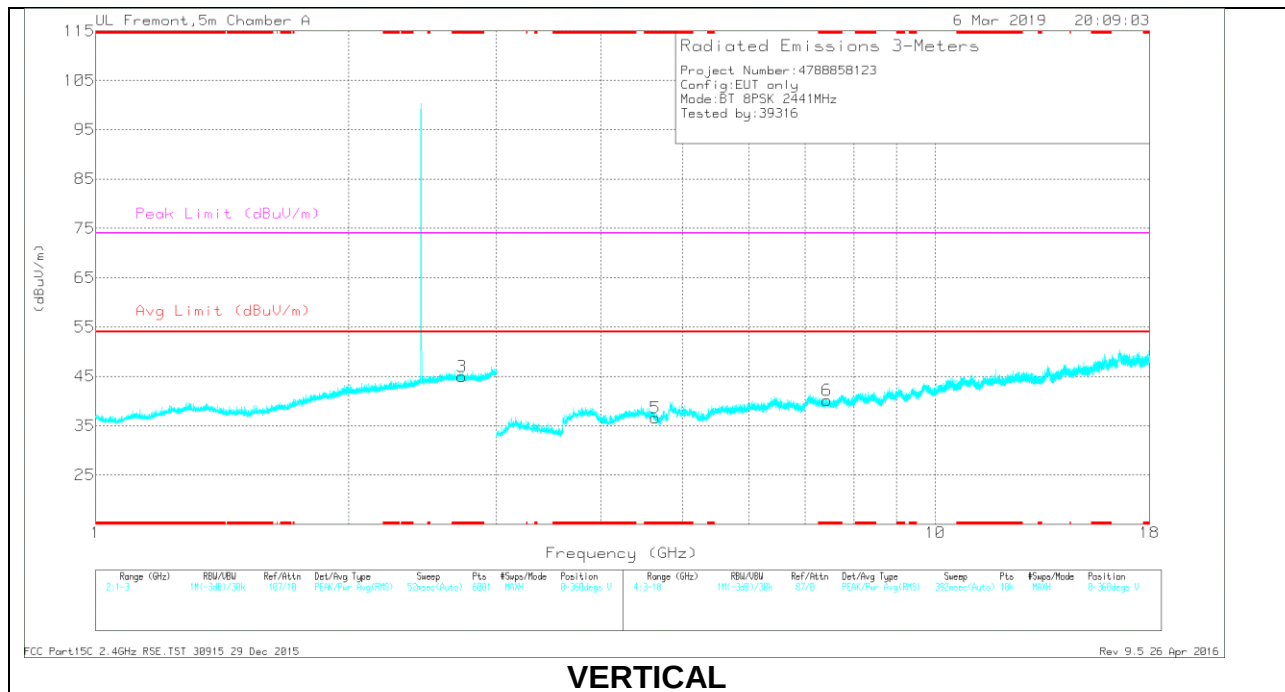
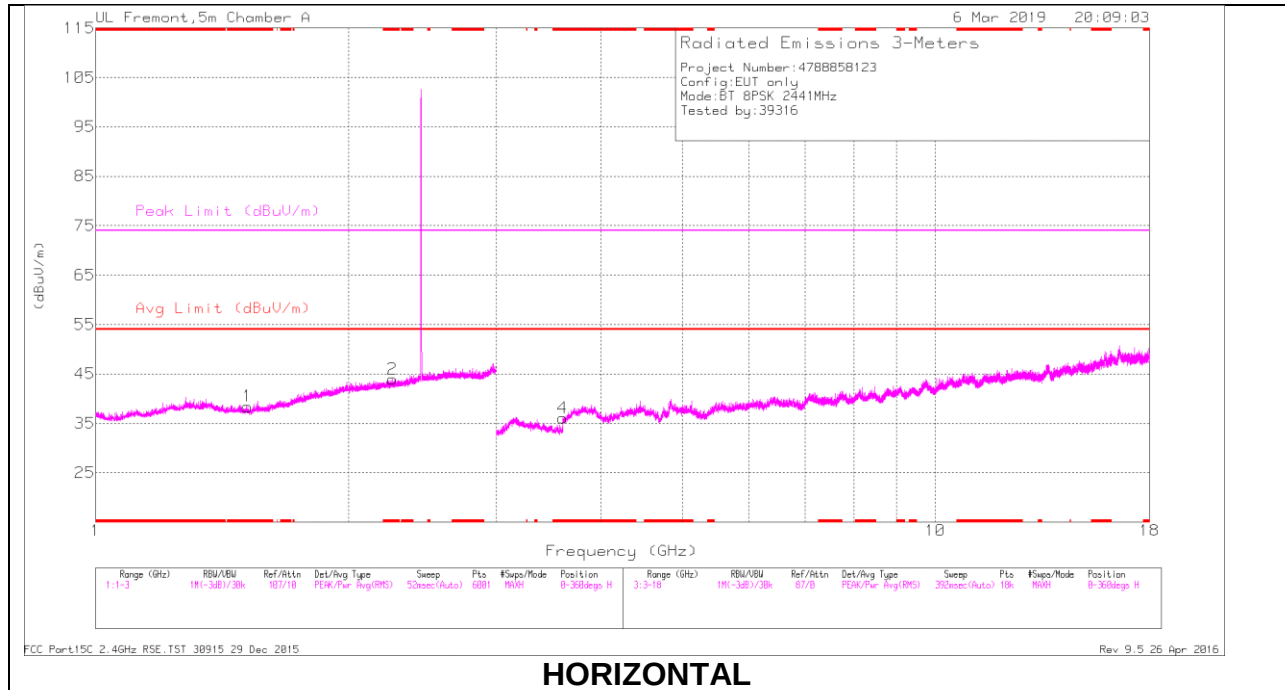
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

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MID CHANNEL RESULTS



RADIATED EMISSIONS

Radiated Emissions

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dB uV/m)	Margin (dB)	Peak Limit (dB uV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.517	40.3	PKFH	27.8	-24.5	43.6	-	-	74	-30.4	319	246	H
	* 1.514	29.19	VA1T	27.8	-24.5	32.49	54	-21.51	-	-	319	246	H
2	* 2.256	39.9	PKFH	31.6	-22.9	48.6	-	-	74	-25.4	111	108	H
	* 2.256	29.04	VA1T	31.6	-22.9	37.74	54	-16.26	-	-	111	108	H
3	* 2.732	41.22	PKFH	32.4	-22.1	51.52	-	-	74	-22.48	34	234	V
	* 2.729	29.17	VA1T	32.4	-22.1	39.47	54	-14.53	-	-	34	234	V
4	* 3.605	39.35	PKFH	33.1	-29.5	42.95	-	-	74	-31.05	153	147	H
	* 3.605	27.41	VA1T	33.1	-29.5	31.01	54	-22.99	-	-	153	147	H
5	* 4.644	37.58	PKFH	34.2	-28.4	43.38	-	-	74	-30.62	246	151	V
	* 4.643	26.34	VA1T	34.2	-28.4	32.14	54	-21.86	-	-	246	151	V
6	* 7.434	33.3	PKFH	35.7	-23.1	45.9	-	-	74	-28.1	163	161	V
	* 7.433	22.31	VA1T	35.7	-23.2	34.81	54	-19.19	-	-	163	161	V

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

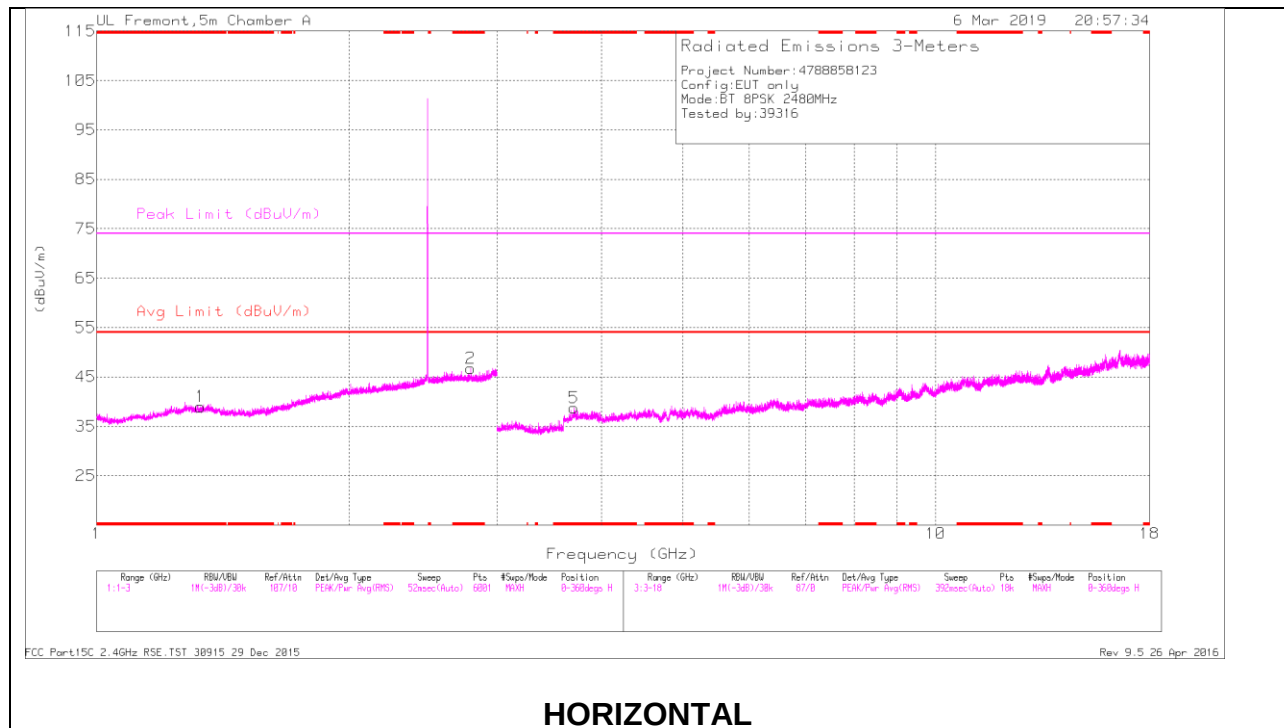
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

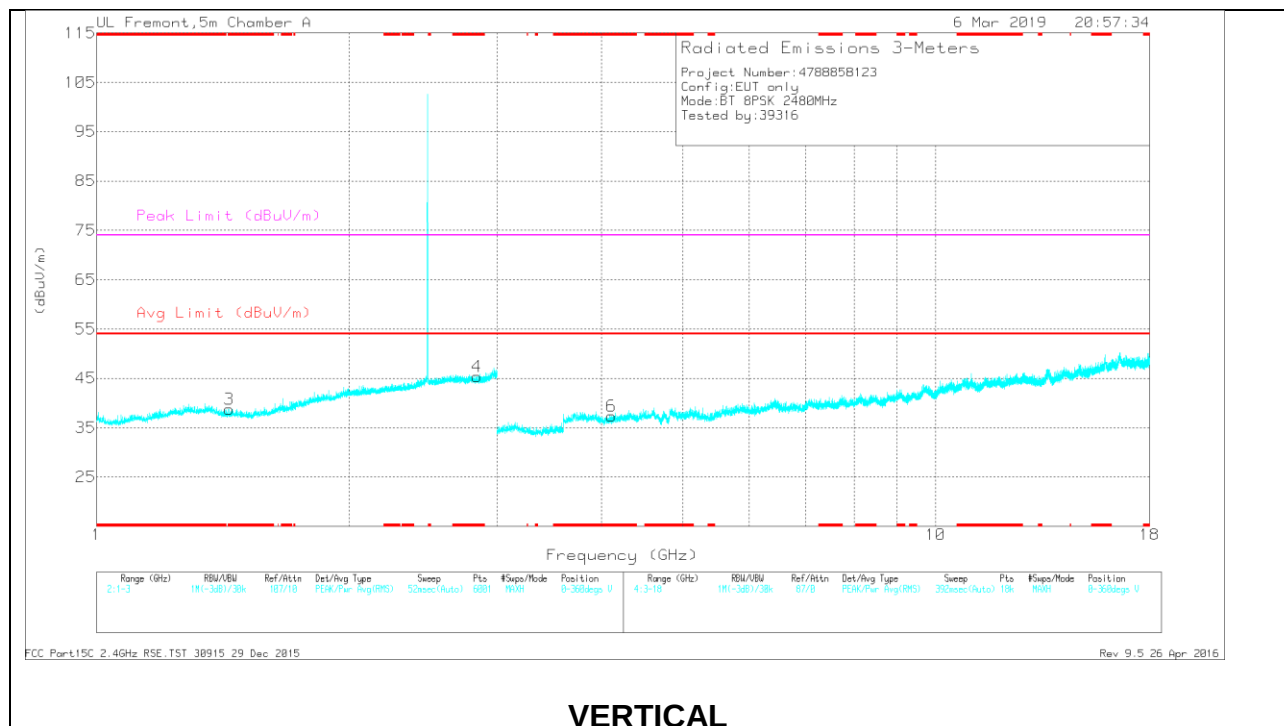
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HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dB uV/m)	Margin (dB)	Peak Limit (dB uV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.328	41.16	PKFH	28.9	-24.9	45.16	-	-	74	-28.84	189	161	H
	* 1.329	29.49	VA1T	28.9	-24.9	33.49	54	-20.51	-	-	189	161	H
2	* 2.791	40.36	PKFH	32.4	-22.1	50.66	-	-	74	-23.34	239	191	H
	* 2.794	29.2	VA1T	32.5	-22.1	39.6	54	-14.4	-	-	239	191	H
3	* 1.441	41.22	PKFH	28.1	-24.8	44.52	-	-	74	-29.48	192	233	V
	* 1.44	29.45	VA1T	28.1	-24.8	32.75	54	-21.25	-	-	192	233	V
4	* 2.838	40.36	PKFH	32.3	-22.1	50.56	-	-	74	-23.44	135	290	V
	* 2.838	29.03	VA1T	32.3	-22	39.33	54	-14.67	-	-	135	290	V
5	* 3.708	38.65	PKFH	33.2	-28.7	43.15	-	-	74	-30.85	308	259	H
	* 3.708	27.32	VA1T	33.2	-28.7	31.82	54	-22.18	-	-	308	259	H
6	* 4.109	38.02	PKFH	33.8	-28.8	43.02	-	-	74	-30.98	347	202	V
	* 4.11	26.66	VA1T	33.8	-28.8	31.66	54	-22.34	-	-	347	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

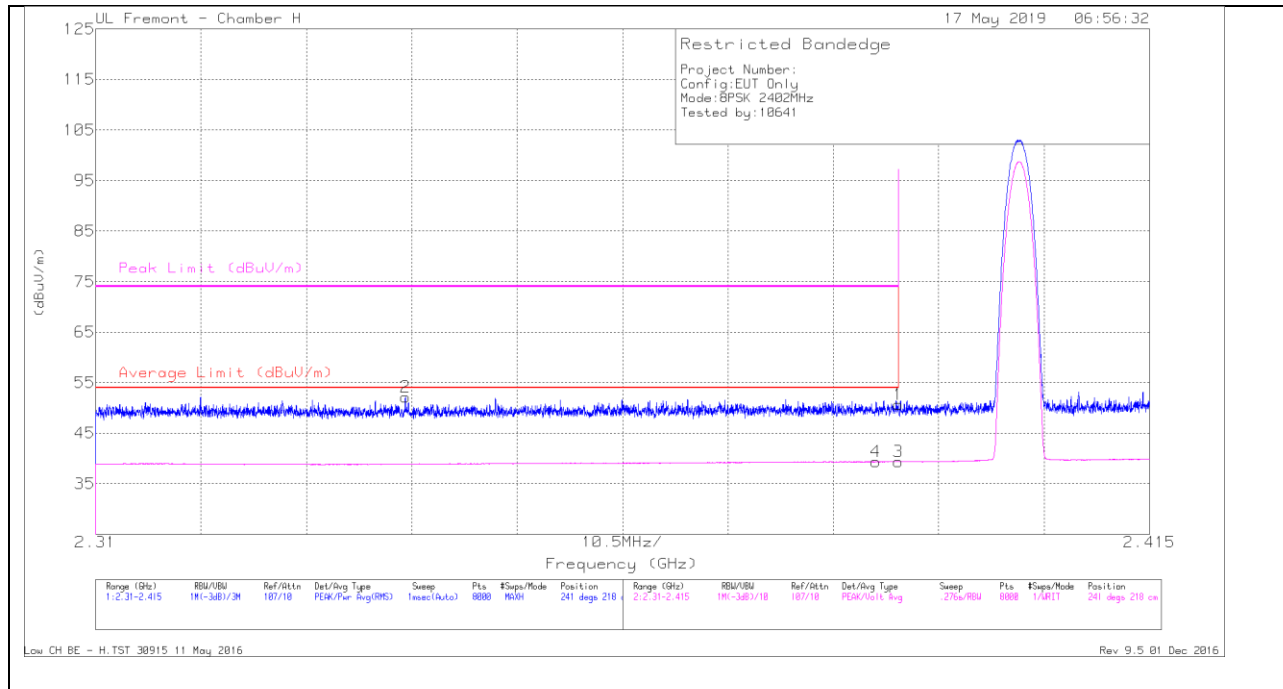
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9.1.4. ANTENNA 5, HIGH POWER ENHANCED DATA RATE 8PSK Modulation

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



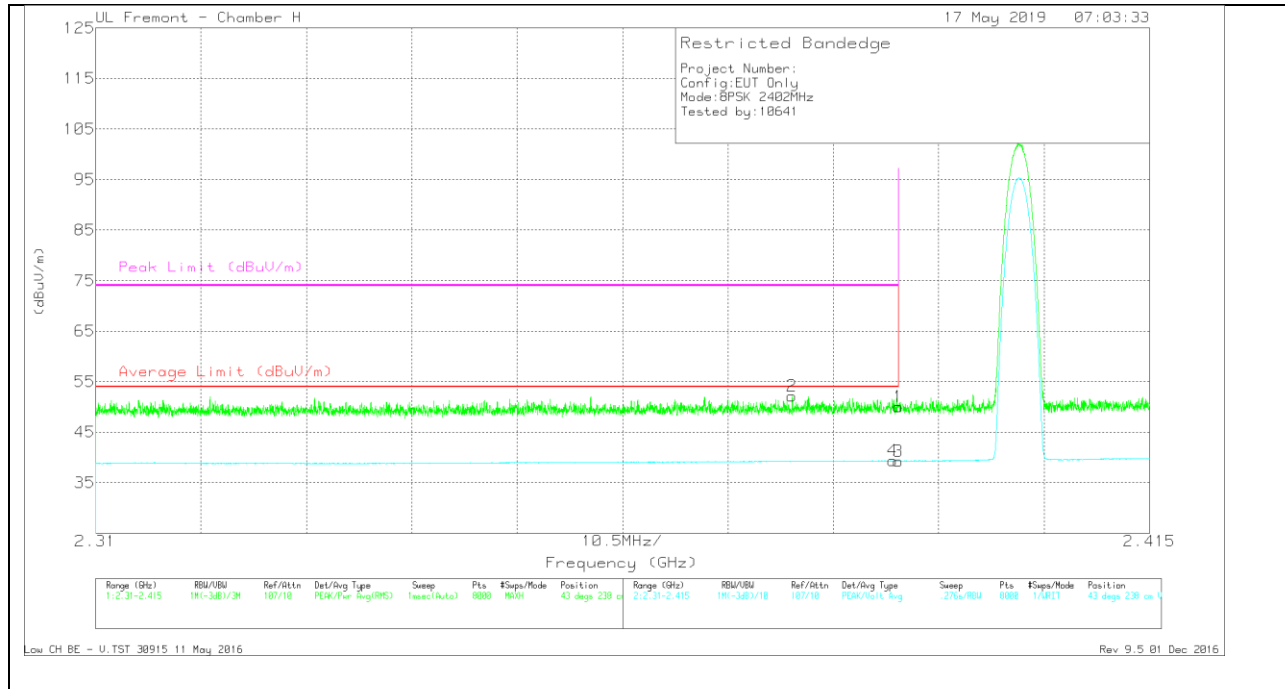
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	42.61	Pk	31.6	-23.5	50.71	-	-	74	-23.29	241	218	H
2	* 2.341	44.41	Pk	31.3	-23.6	52.11	-	-	74	-21.89	241	218	H
3	* 2.39	31.24	VA1T	31.6	-23.5	39.34	54	-14.66	-	-	241	218	H
4	* 2.388	31.27	VA1T	31.6	-23.5	39.37	54	-14.63	-	-	241	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

VERTICAL RESULT

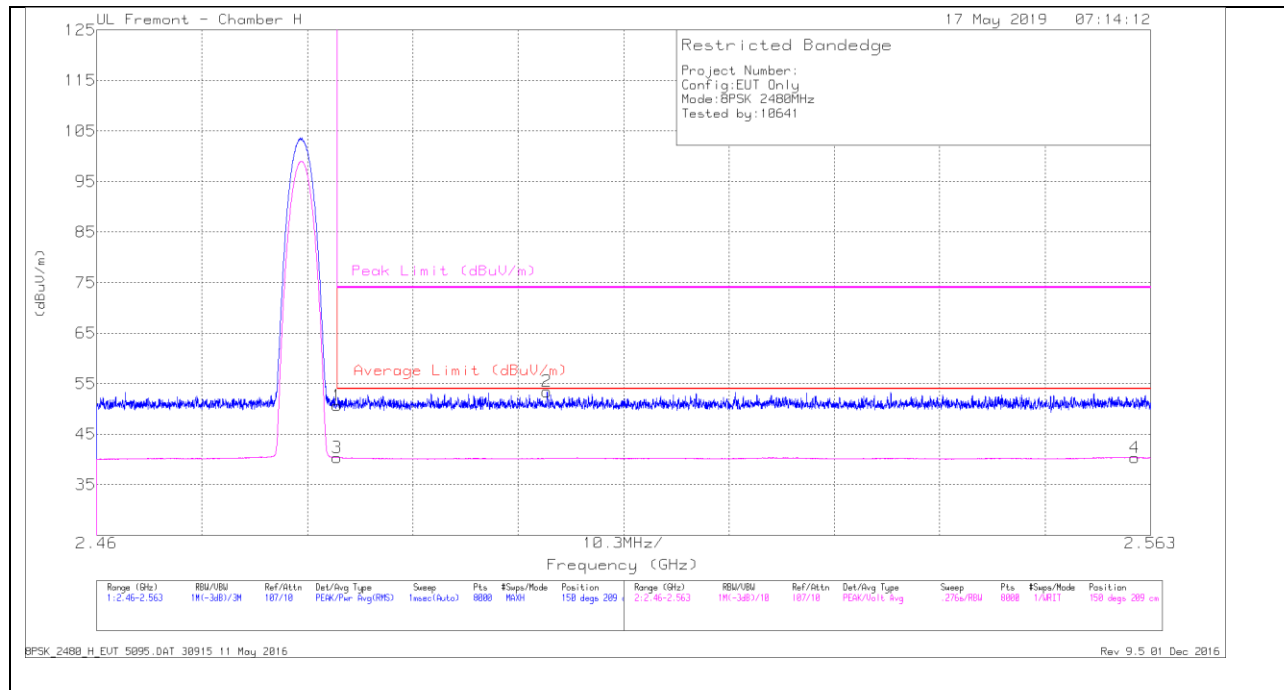


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.91	Pk	31.6	-23.5	50.01	-	-	74	-23.99	43	238	V
2	* 2.379	44.11	Pk	31.6	-23.5	52.21	-	-	74	-21.79	43	238	V
3	* 2.39	31.19	VA1T	31.6	-23.5	39.29	54	-14.71	-	-	43	238	V
4	* 2.389	31.22	VA1T	31.6	-23.5	39.32	54	-14.68	-	-	43	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

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtz/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	41.69	Pk	32.3	-23.3	50.69	-	-	74	-23.31	150	209	H
3	* 2.484	31.34	VA1T	32.3	-23.3	40.34	54	-13.66	-	-	150	209	H
2	2.504	44.26	Pk	32.4	-23.2	53.46	-	-	74	-20.54	150	209	H
4	2.561	31.1	VA1T	32.4	-23.1	40.4	54	-13.6	-	-	150	209	H

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

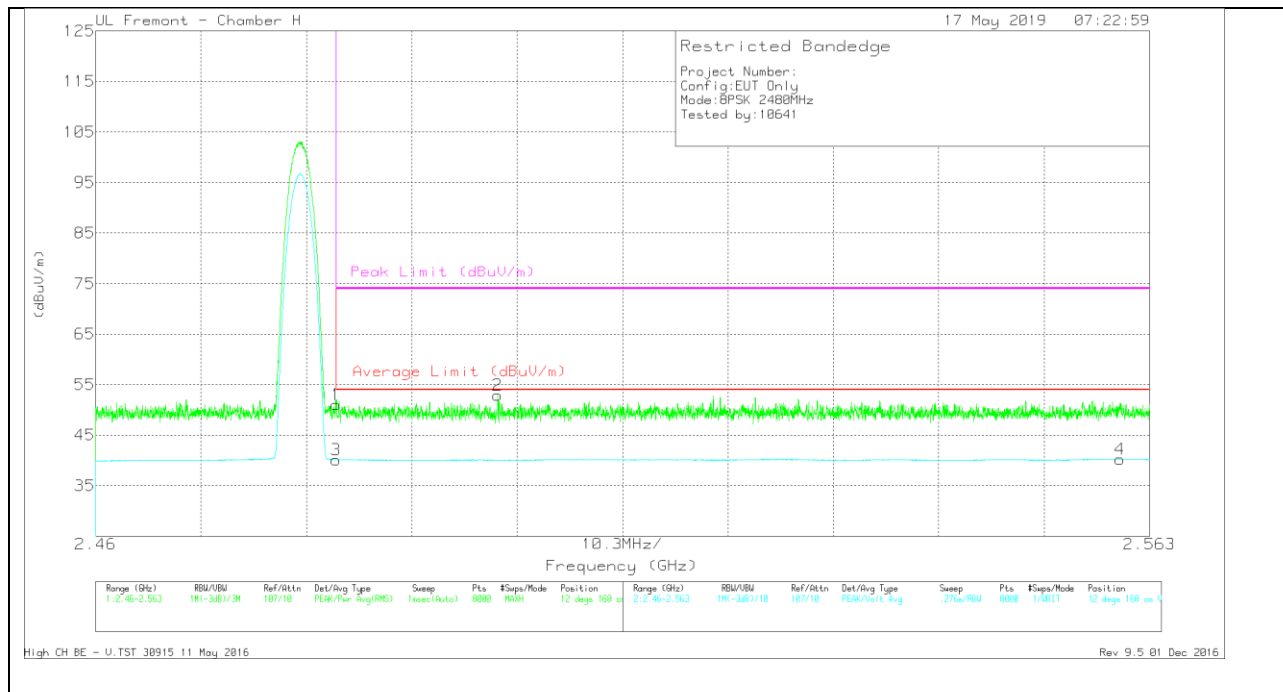
Pk - Peak detector

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 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	41.98	Pk	32.3	-23.3	50.98	-	-	74	-23.02	12	168	V
2	* 2.499	43.92	Pk	32.3	-23.3	52.92	-	-	74	-21.08	12	168	V
3	* 2.484	31.11	VA1T	32.3	-23.3	40.11	54	-13.89	-	-	12	168	V
4	2.56	30.98	VA1T	32.4	-23.1	40.28	54	-13.72	-	-	12	168	V

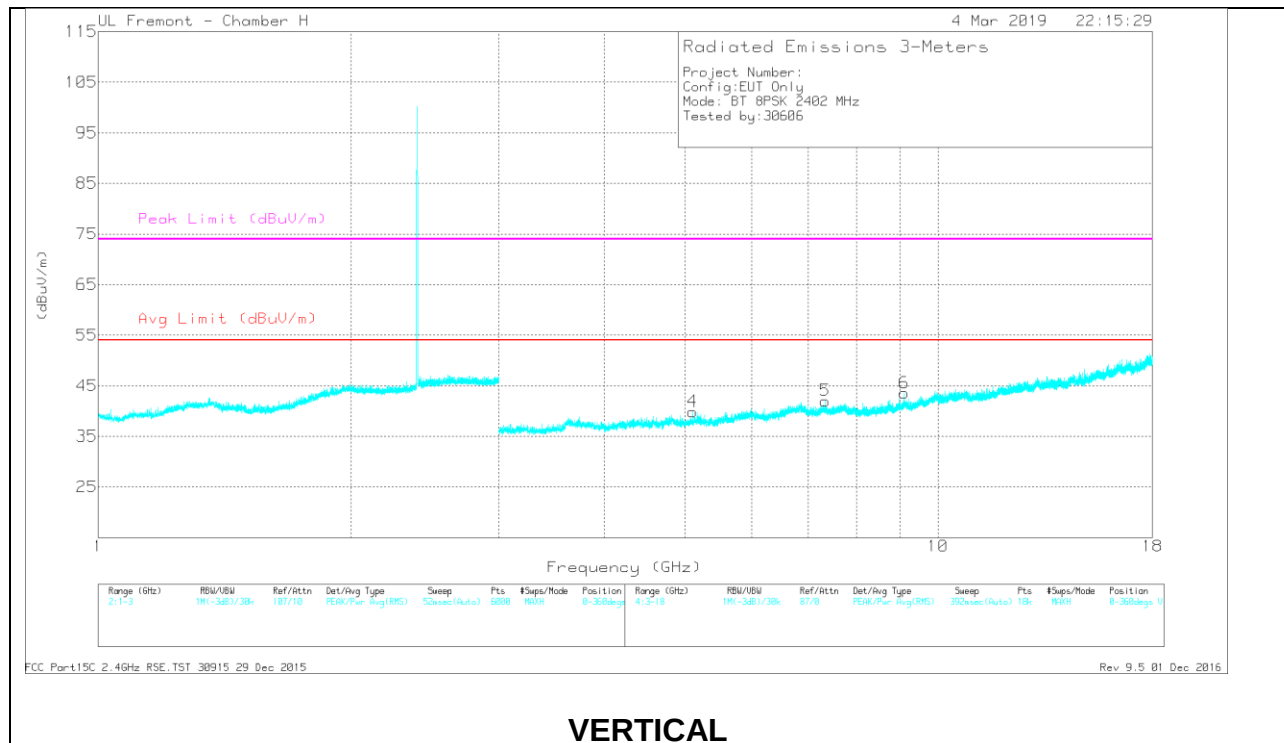
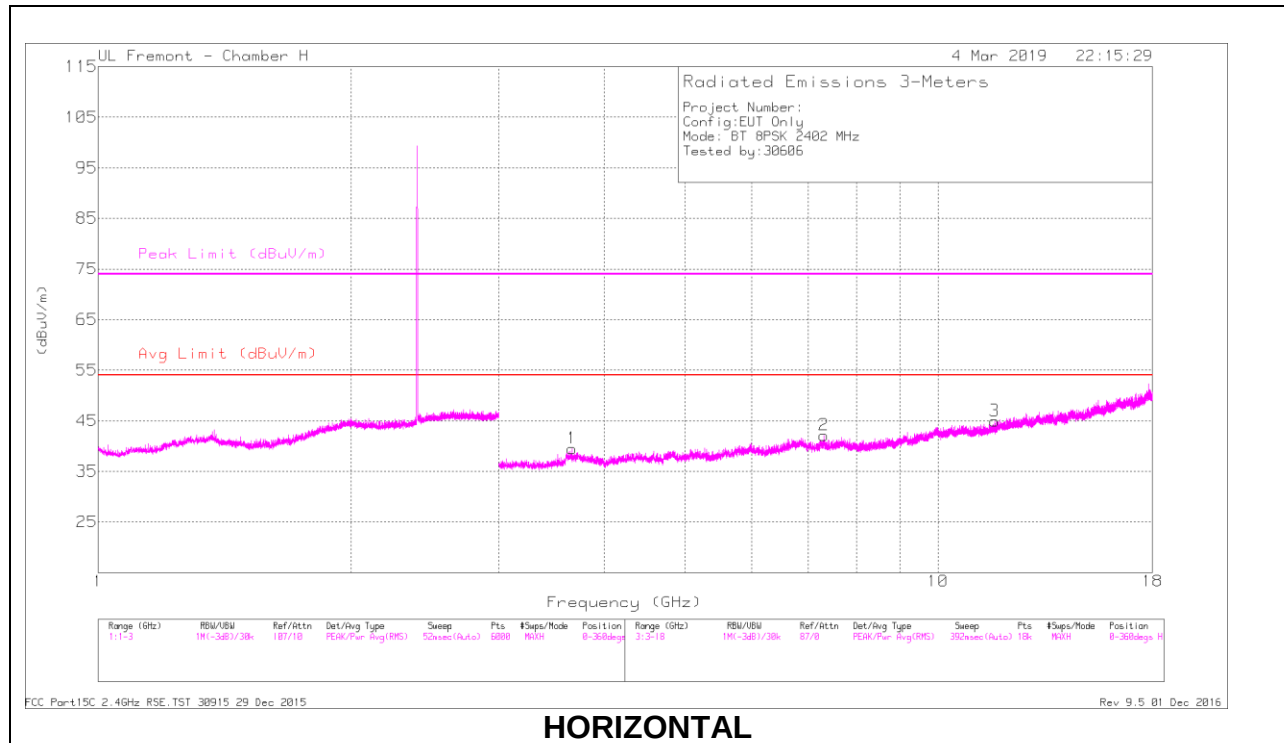
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

High CH BE - V.TST 30915 11 May 2016

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HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL RESULTS**

RADIATED EMISSIONS

Radiated Emissions

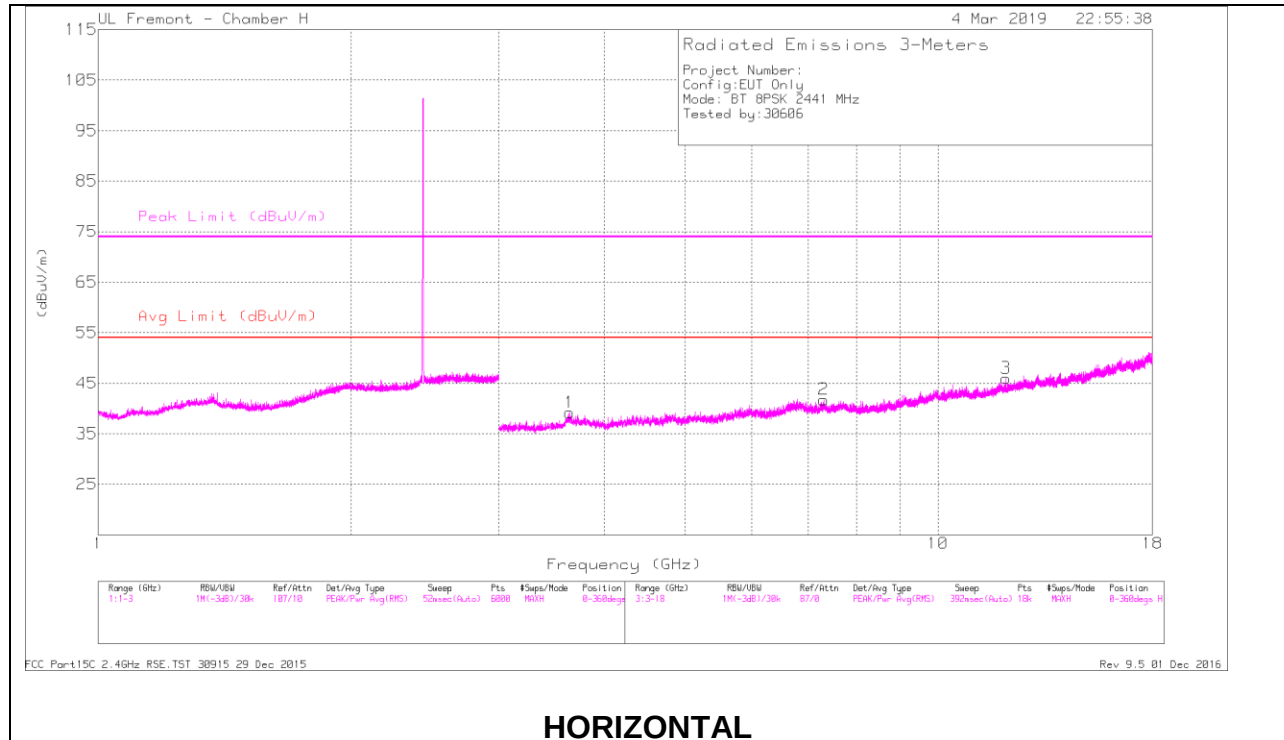
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dB uV/m)	Margin (dB)	Peak Limit (dB uV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.664	41.13	PKFH	33.1	-29.7	44.53	-	-	74	-29.47	147	103	H
	* 3.668	28.37	VA1T	33.1	-29.9	31.57	54	-22.43	-	-	147	103	H
2	* 7.317	37.32	PKFH	36.3	-26.4	47.22	-	-	74	-26.78	80	275	H
	* 7.317	25.33	VA1T	36.3	-26.4	35.23	54	-18.77	-	-	80	275	H
3	* 11.686	35.02	PKFH	38.5	-23.2	50.32	-	-	74	-23.68	330	352	H
	* 11.685	22.95	VA1T	38.5	-23.2	38.25	54	-15.75	-	-	330	352	H
4	* 5.102	40.06	PKFH	34.4	-29.6	44.86	-	-	74	-29.14	64	179	V
	* 5.102	28.14	VA1T	34.4	-29.6	32.94	54	-21.06	-	-	64	179	V
5	* 7.334	36.81	PKFH	36.4	-26.6	46.61	-	-	74	-27.39	41	250	V
	* 7.338	25.1	VA1T	36.4	-26.6	34.9	54	-19.1	-	-	41	250	V
6	* 9.12	35.2	PKFH	36.3	-23.7	47.8	-	-	74	-26.2	293	117	V
	* 9.118	23.51	VA1T	36.3	-23.7	36.11	54	-17.89	-	-	293	117	V

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

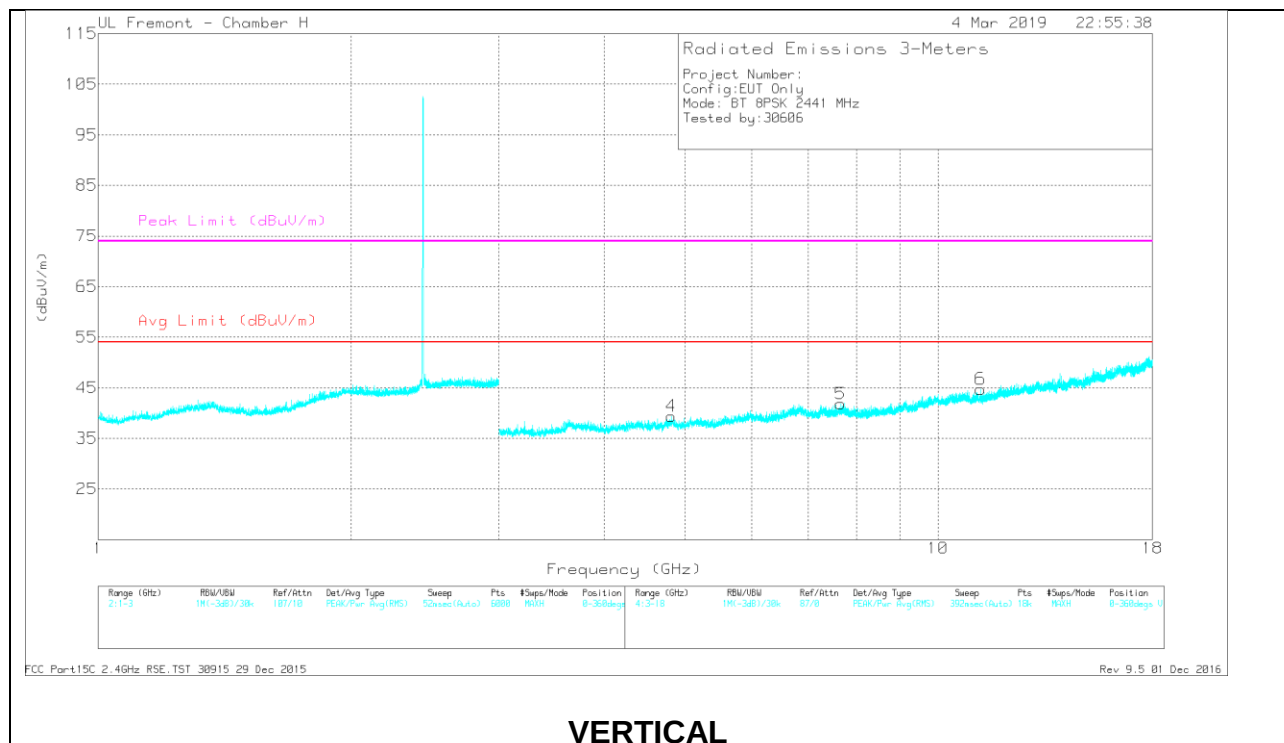
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL