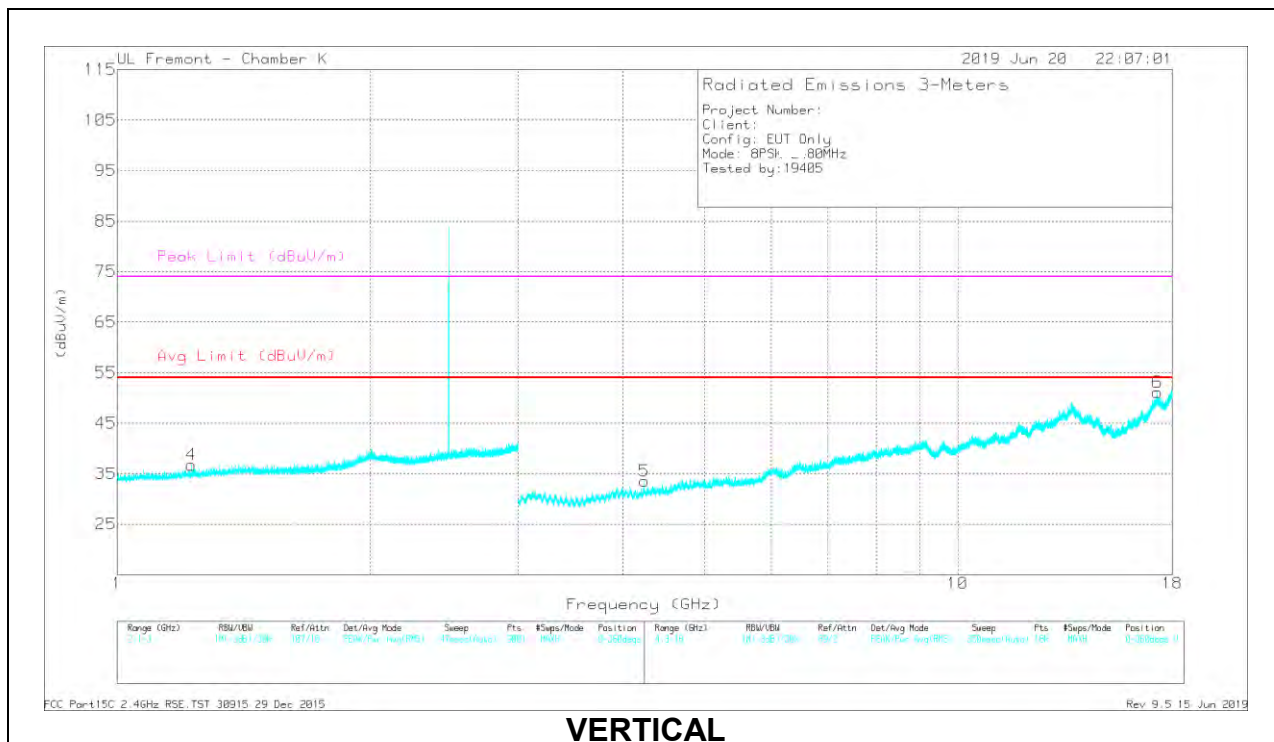
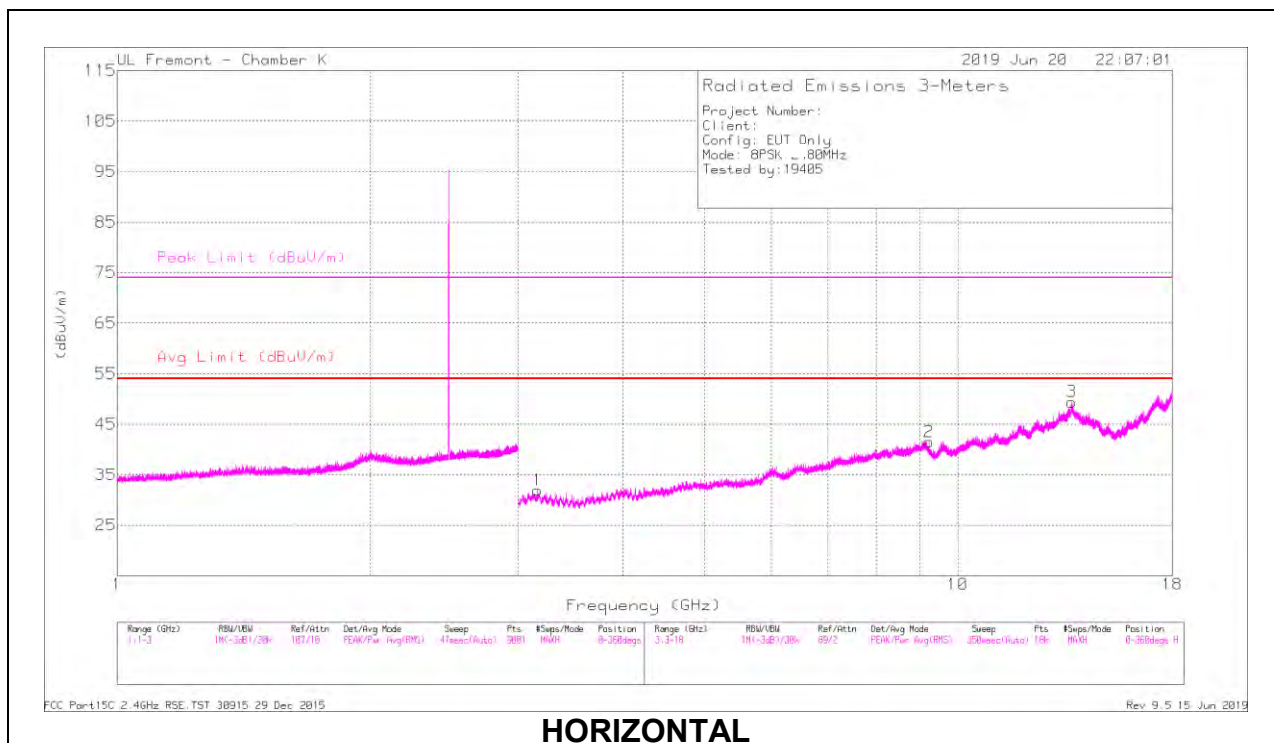


HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.226	43.65	PKFH	24.2	-23.9	43.95	-	-	74	-30.05	360	101	V
	* 1.22637	30.04	VA1T	24.2	-23.9	30.34	54	-23.66	-	-	360	101	V
1	3.16282	41.73	PKFH	30.7	-32.8	39.63	-	-	-	-	360	200	H
	3.16501	28.16	VA1T	30.7	-32.8	26.06	-	-	-	-	360	200	H
2	9.24908	33.6	PKFH	38.6	-23.5	48.7	-	-	-	-	360	200	H
	9.25064	20.44	VA1T	38.6	-23.5	35.54	-	-	-	-	360	200	H
3	13.66893	31.33	PKFH	43.1	-18.7	55.73	-	-	-	-	360	200	H
	13.66637	18.02	VA1T	43.1	-18.7	42.42	-	-	-	-	360	200	H
5	* 4.23924	40.11	PKFH	31.3	-31.3	40.11	-	-	74	-33.89	360	102	V
	* 4.23927	26.79	VA1T	31.3	-31.3	26.79	54	-27.21	-	-	360	102	V
6	17.28302	31.5	PKFH	43.2	-16	58.7	-	-	-	-	360	102	V

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

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

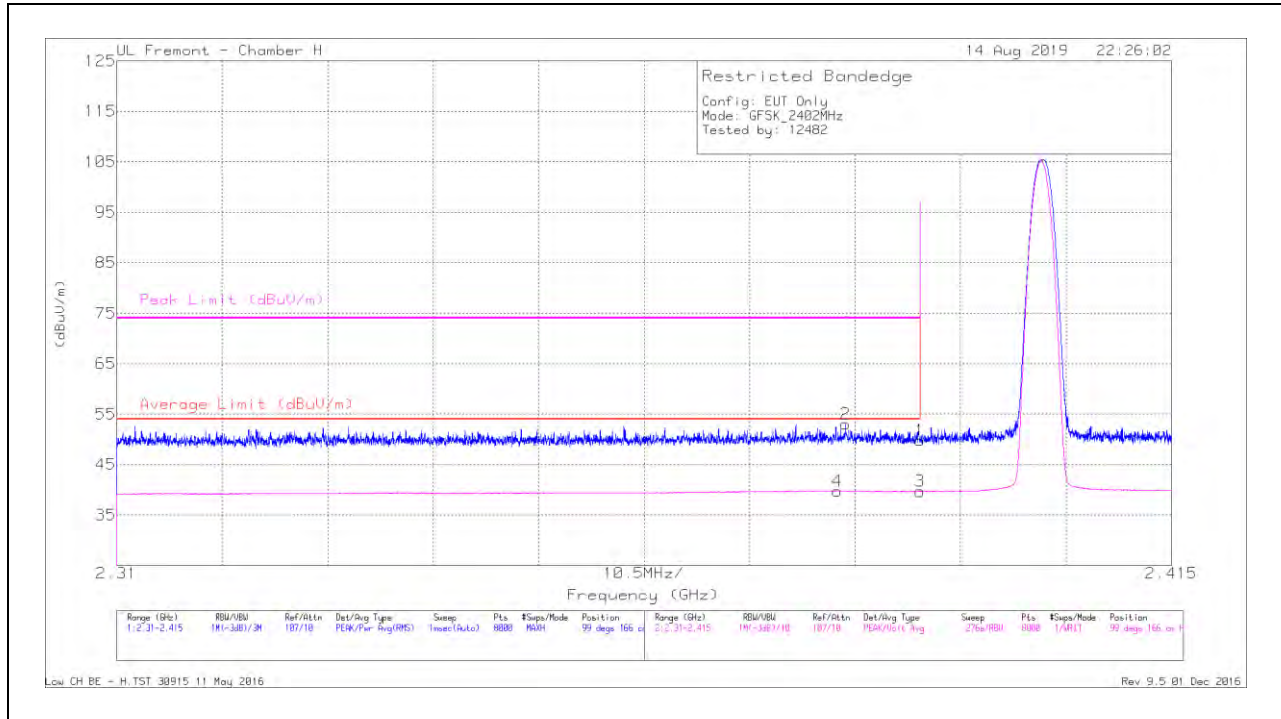
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.1.3. LOW POWER BASIC DATA RATE GFSK MODULATION

Antenna 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



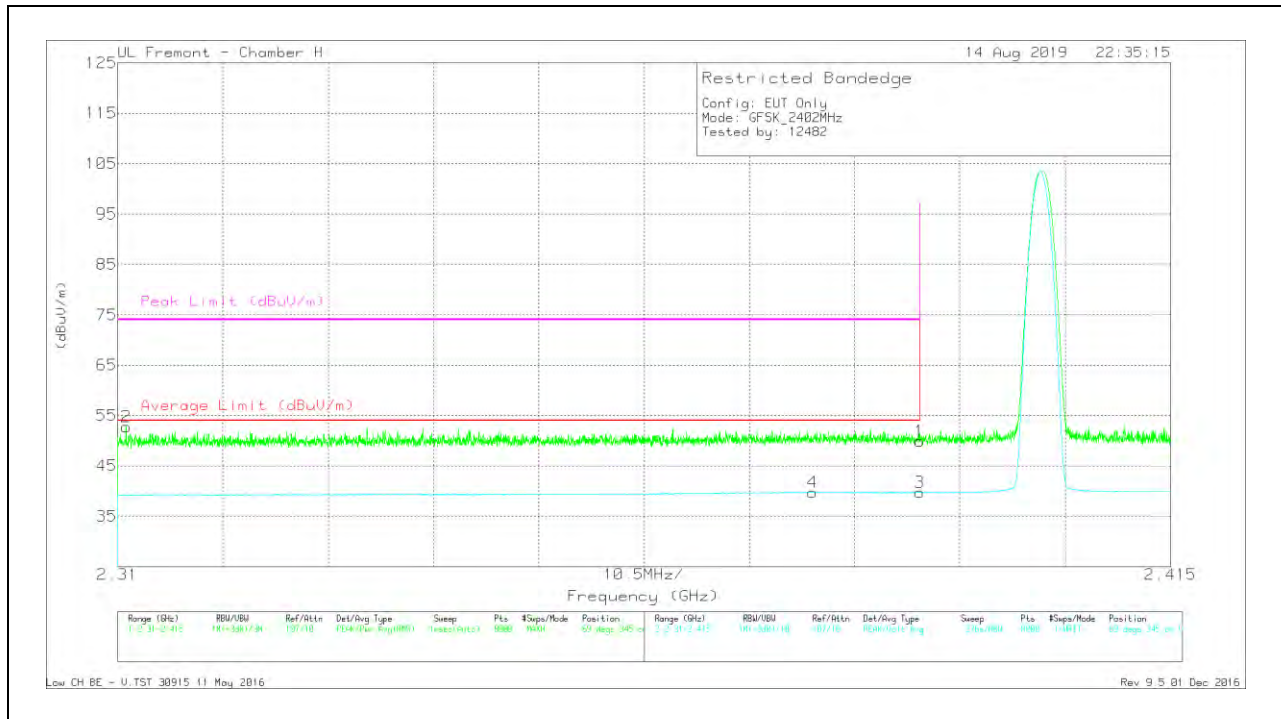
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dBm)	Amp/Cbl/Filtri/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.14	Pk	32.1	-23.5	49.74	-	-	74	-24.26	99	166	H
2	* 2.383	44.34	Pk	32.2	-23.5	53.04	-	-	74	-20.96	99	166	H
3	* 2.39	31.08	VA1T	32.1	-23.5	39.68	54	-14.32	-	-	99	166	H
4	* 2.382	31.08	VA1T	32.2	-23.5	39.78	54	-14.22	-	-	99	166	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 T863 (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
2	* 2.311	44.72	Pk	31.8	-23.7	52.82	-	-	74	-21.18	69	345	V
4	* 2.379	31.08	VA1T	32.2	-23.5	39.78	54	-14.22	-	-	69	345	V
1	* 2.39	41.3	Pk	32.1	-23.5	49.9	-	-	74	-24.1	69	345	V
3	* 2.39	31.12	VA1T	32.1	-23.5	39.72	54	-14.28	-	-	69	345	V

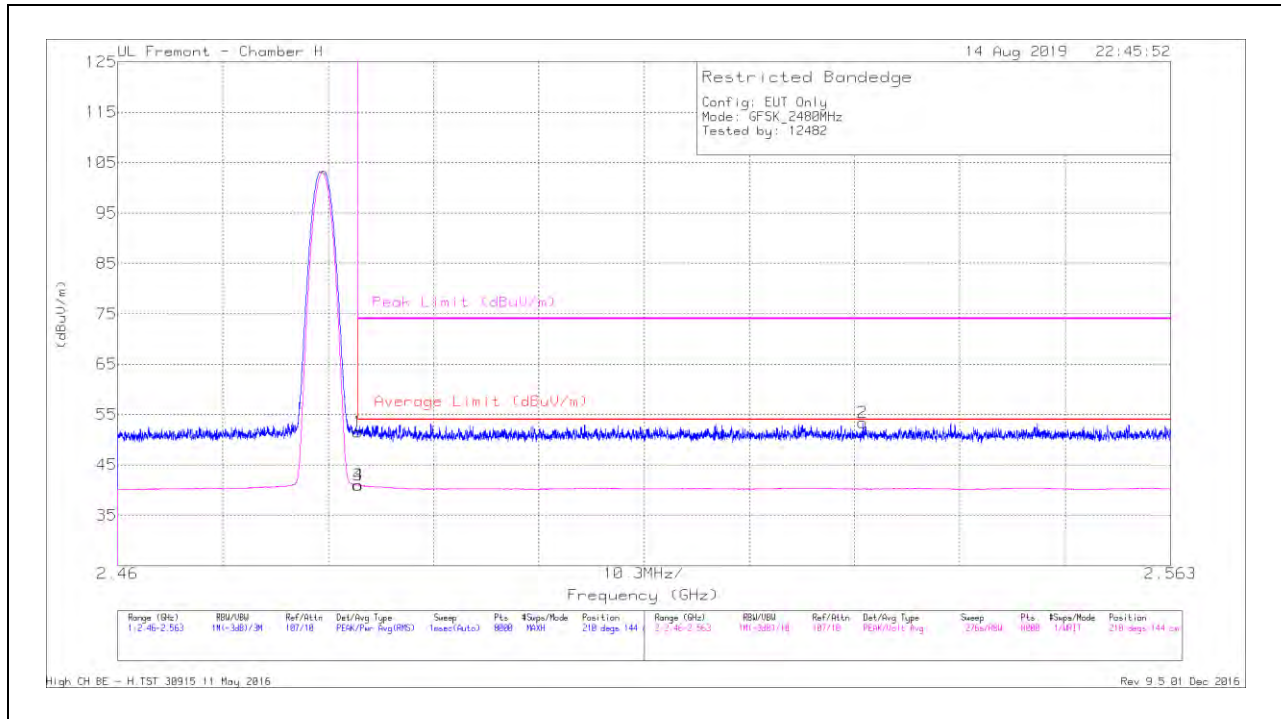
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

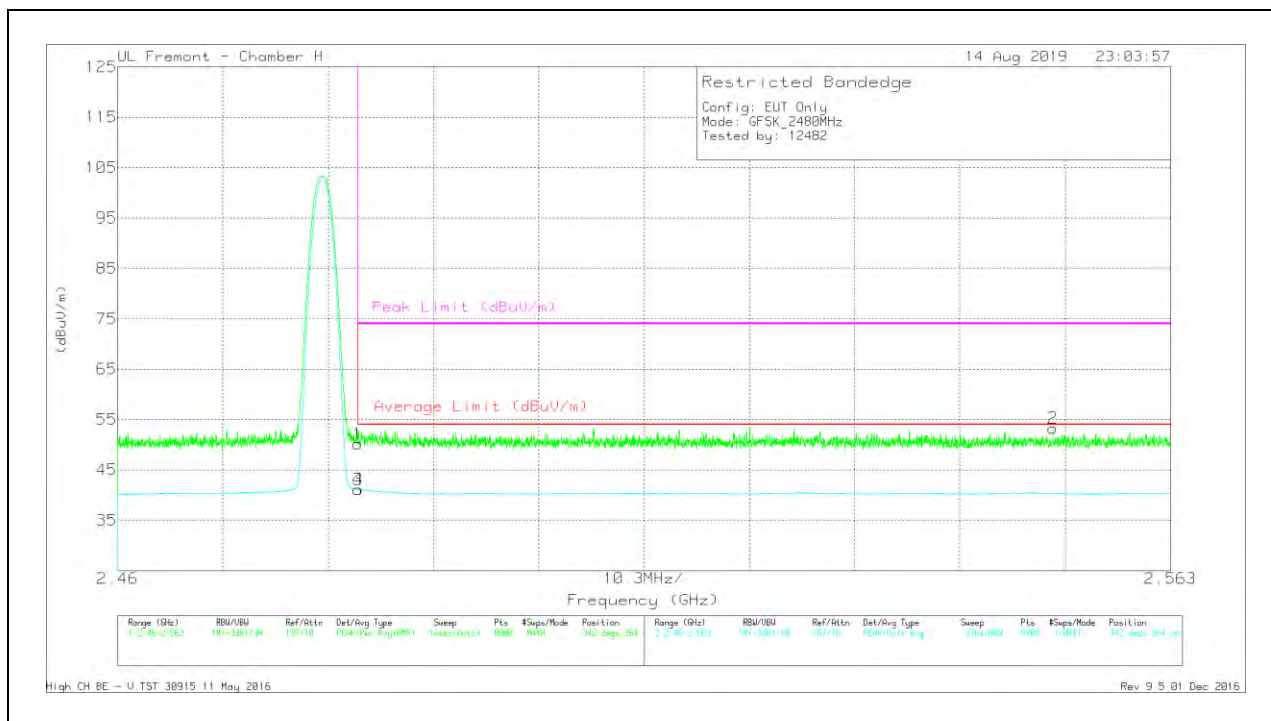


* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 T863 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.99	Pk	32.5	-23.3	50.19	-	-	74	-23.81	342	364	V
3	* 2.484	31.88	VA1T	32.5	-23.3	41.08	54	-12.92	-	-	342	364	V
4	* 2.484	31.89	VA1T	32.5	-23.3	41.09	54	-12.91	-	-	342	364	V
2	2.551	43.94	Pk	32.5	-23.2	53.24	-	-	74	-20.76	342	364	V

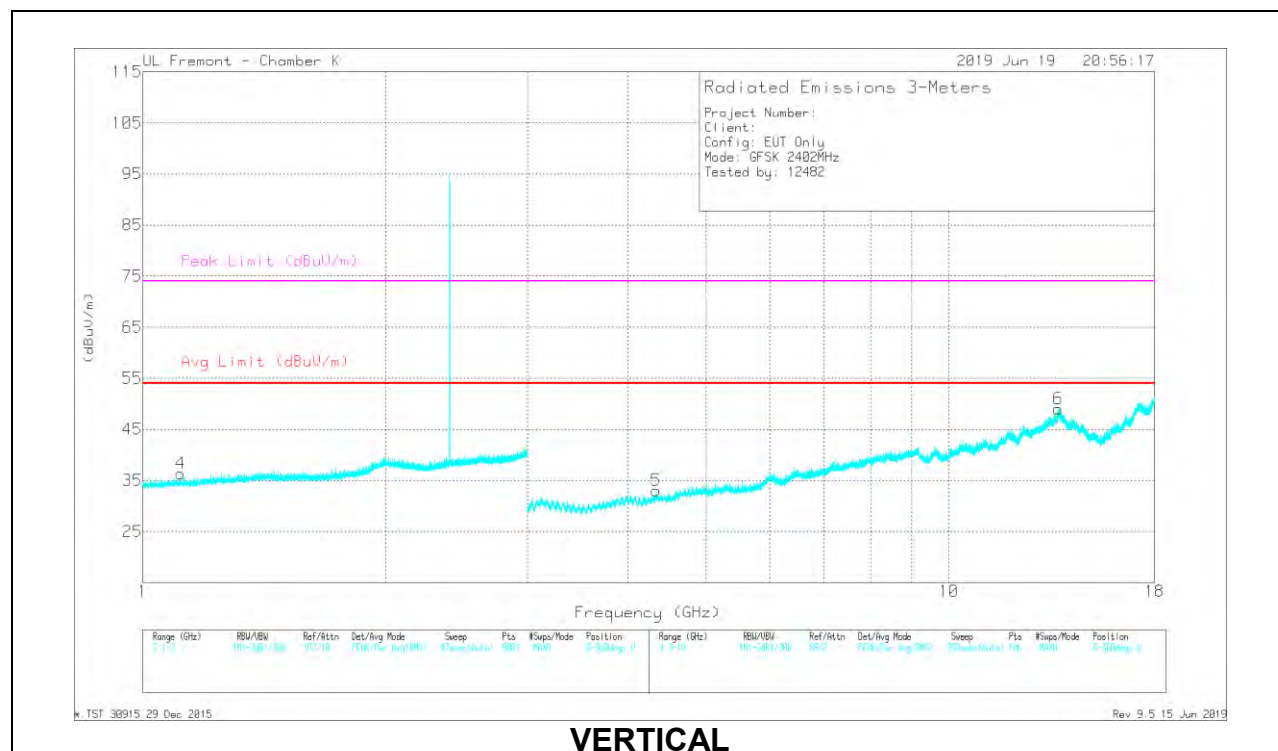
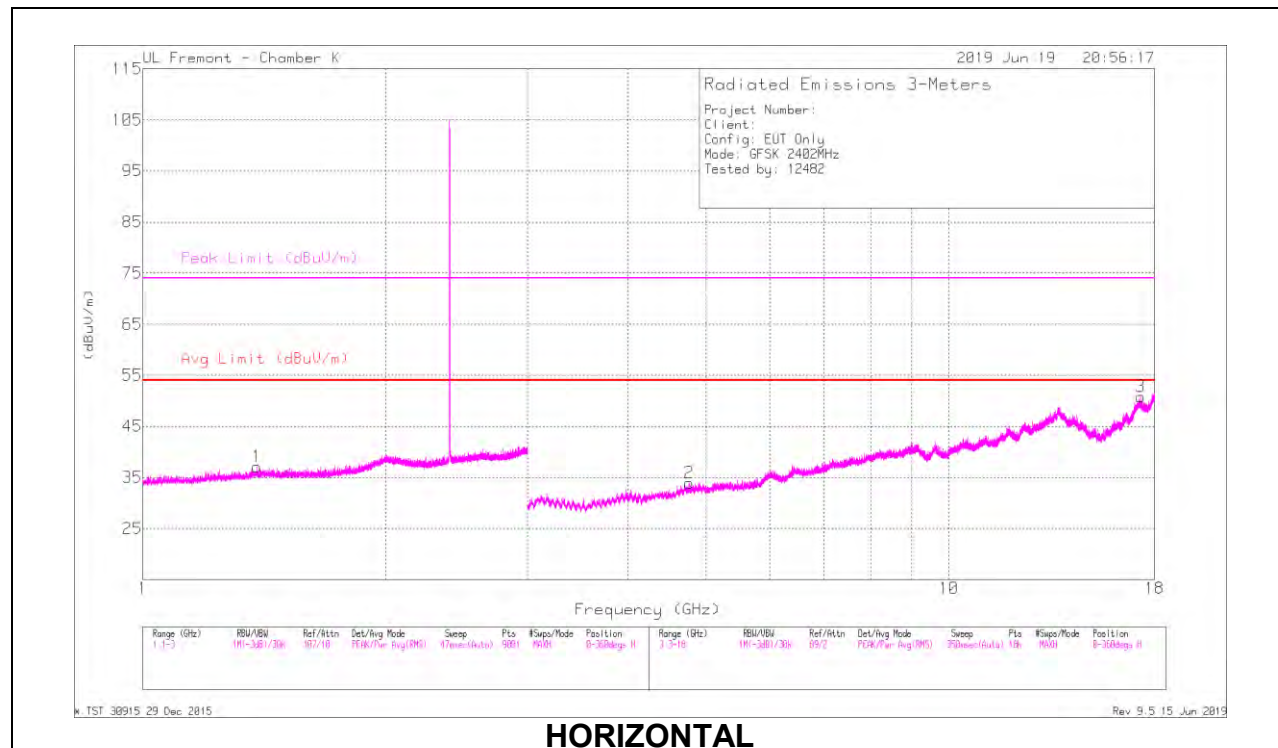
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



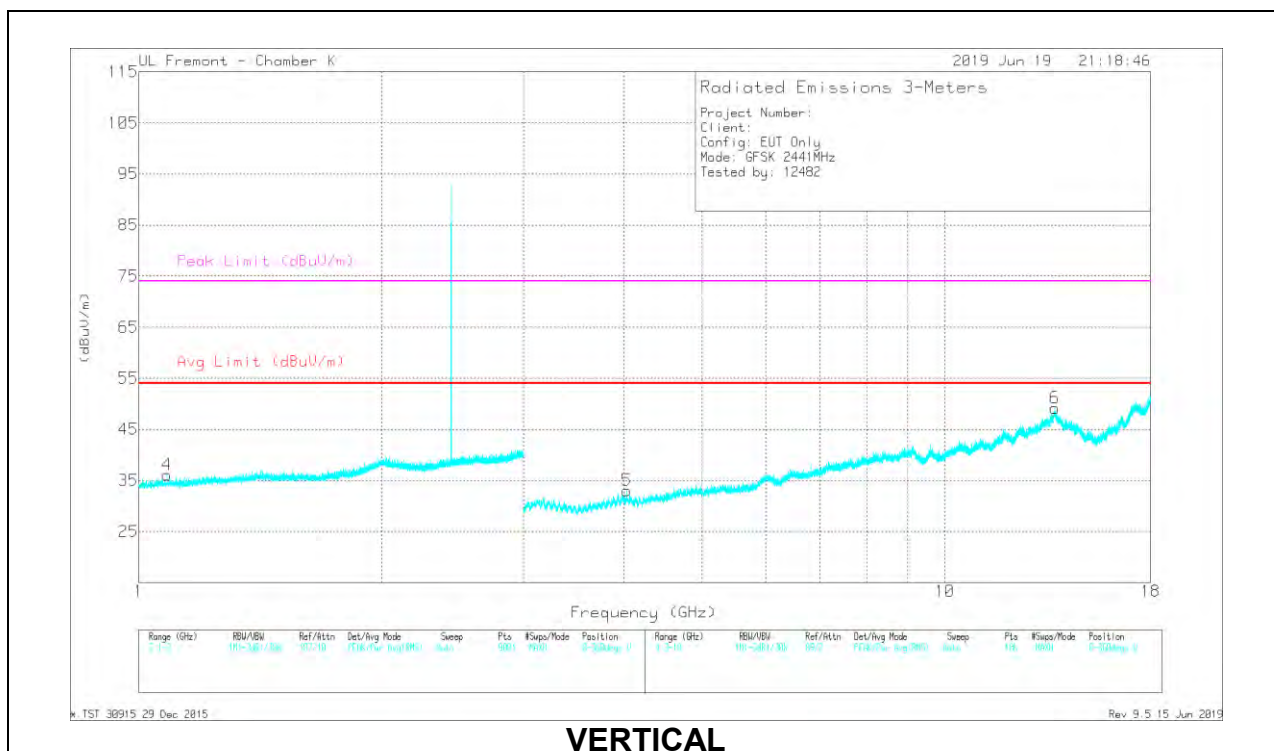
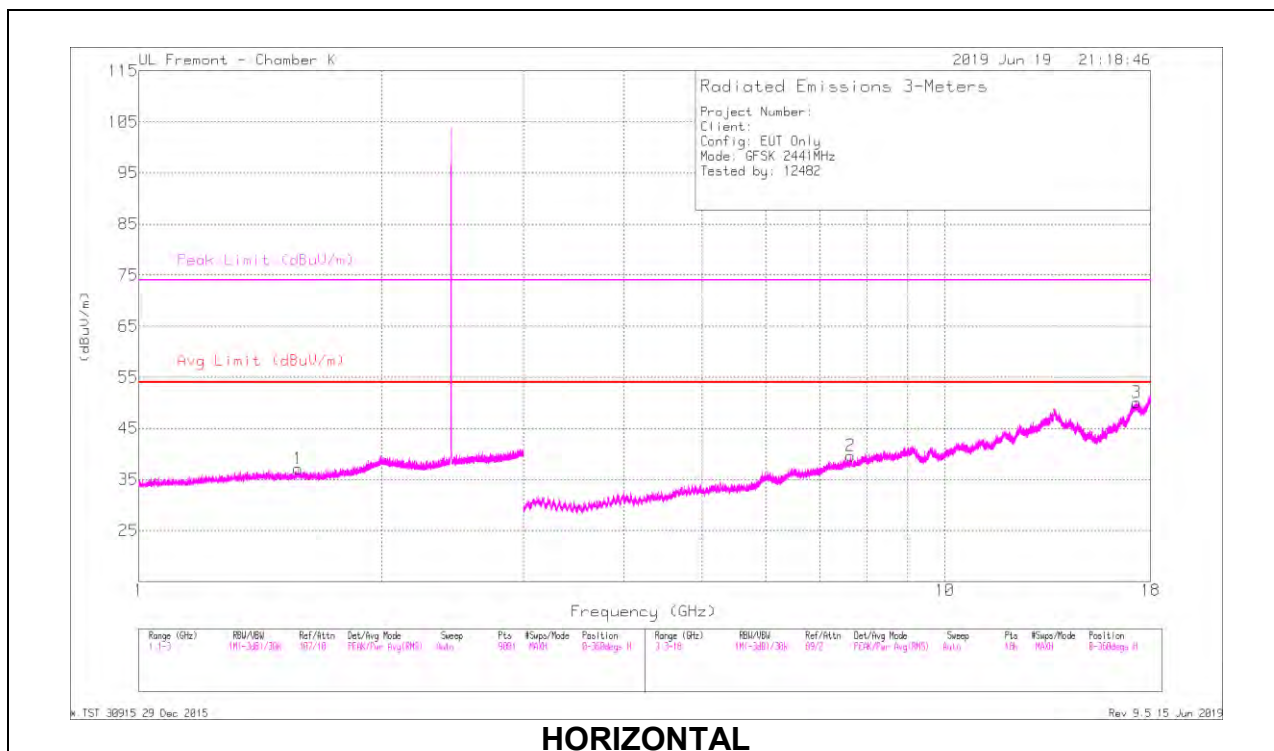
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0190811 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.38512	43.2	PKFH	24.7	-23.9	44	-	-	74	-30	281	124	H
	* 1.38705	30.14	VA1T	24.7	-23.8	31.04	54	-22.96	-	-	281	124	H
4	* 1.11641	44.37	PKFH	23.8	-23.8	44.37	-	-	74	-29.63	193	156	V
	* 1.11565	29.86	VA1T	23.8	-23.8	29.86	54	-24.14	-	-	193	156	V
2	* 4.76089	38.94	PKFH	32.8	-30.2	41.54	-	-	74	-32.46	251	233	H
	* 4.76167	25.56	VA1T	32.9	-30.2	28.26	54	-25.74	-	-	251	233	H
3	17.29593	31.01	PKFH	43.2	-15.9	58.31	-	-	-	-	347	248	H
5	* 4.33727	40.02	PKFH	31.5	-31.1	40.42	-	-	74	-33.58	14	123	V
	* 4.33499	26.69	VA1T	31.5	-31.1	27.09	54	-26.91	-	-	14	123	V
6	13.68541	31.68	PKFH	43.1	-18.8	55.98	-	-	-	-	131	156	V

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

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

MID CHANNEL RESULTS



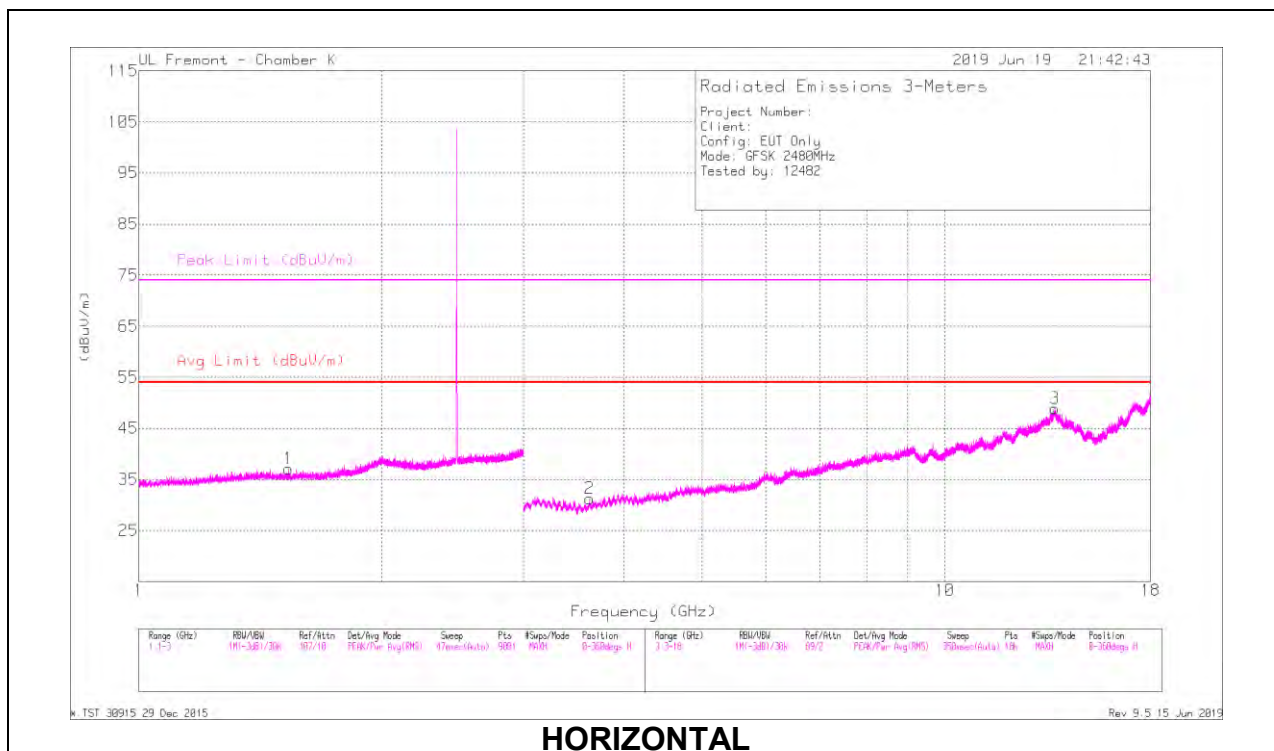
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.57751	44.53	PKFH	24.8	-23.8	45.53	-	-	74	-28.47	149	339	H
	* 1.57599	30.26	VA1T	24.8	-23.8	31.26	54	-22.74	-	-	149	339	H
4	* 1.08193	43.53	PKFH	23.7	-23.8	43.43	-	-	74	-30.57	97	266	V
	* 1.08356	29.93	VA1T	23.7	-23.8	29.83	54	-24.17	-	-	97	266	V
2	* 7.64537	36.47	PKFH	37.3	-25.5	48.27	-	-	74	-25.73	22	234	H
	* 7.6458	21.98	VA1T	37.3	-25.5	33.78	54	-20.22	-	-	22	234	H
3	17.29073	30.66	PKFH	43.2	-15.9	57.96	-	-	-	-	229	108	H
5	* 4.03141	39.74	PKFH	31.4	-31.3	39.84	-	-	74	-34.16	328	158	V
	* 4.03054	26.81	VA1T	31.4	-31.3	26.91	54	-27.09	-	-	328	158	V
6	13.7023	31.53	PKFH	43.1	-18.6	56.03	-	-	-	-	0	199	V

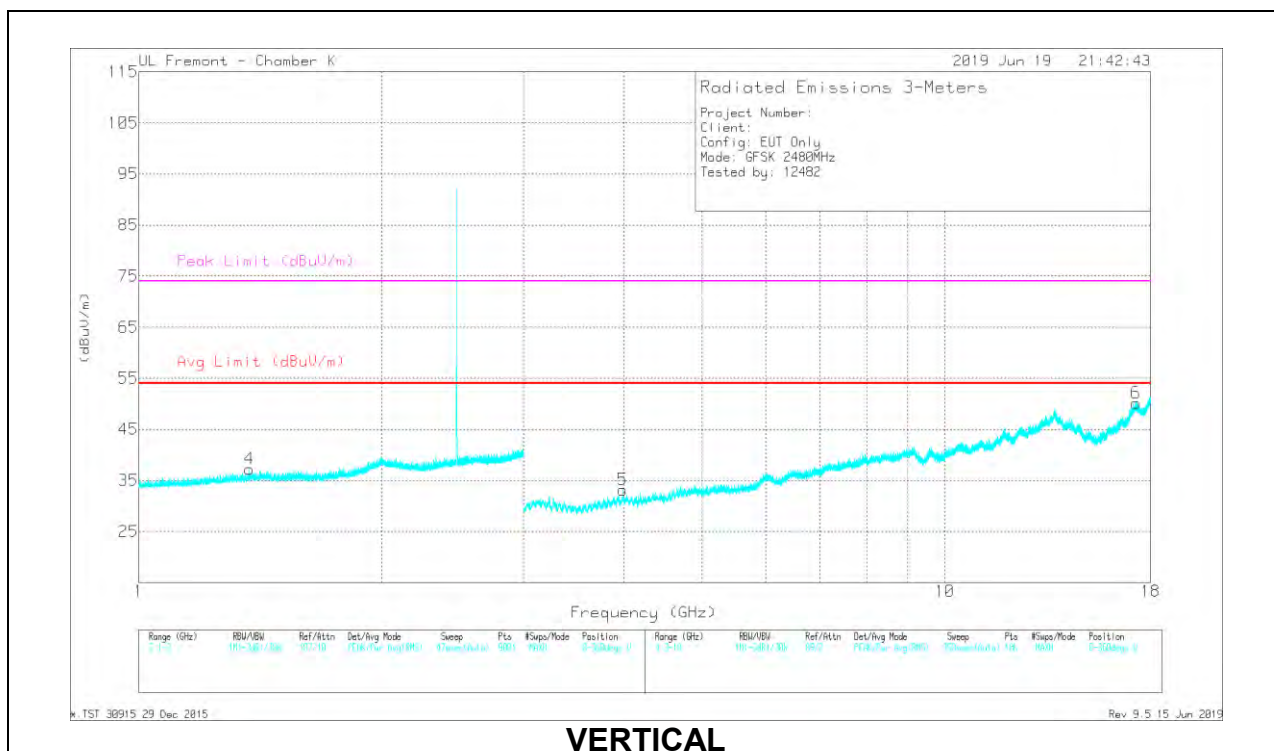
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.53201	43.25	PKFH	24.7	-23.8	44.15	-	-	74	-29.85	10	165	H
	* 1.53415	30.21	VA1T	24.7	-23.9	31.01	54	-22.99	-	-	10	165	H
4	* 1.37405	43.9	PKFH	24.6	-23.8	44.7	-	-	74	-29.3	302	255	V
	* 1.37293	30.2	VA1T	24.6	-23.9	30.9	54	-23.1	-	-	302	255	V
2	* 3.6232	42.16	PKFH	29.9	-32.3	39.76	-	-	74	-34.24	355	303	H
	* 3.62533	27.95	VA1T	29.9	-32.3	25.55	54	-28.45	-	-	355	303	H
3	13.70562	31.29	PKFH	43	-18.6	55.69	-	-	-	-	336	175	H
5	* 3.98154	40.75	PKFH	31.5	-31.6	40.65	-	-	74	-33.35	-	105	V
	* 3.98272	27	VA1T	31.5	-31.6	26.9	54	-27.1	-	-	-	105	V
6	17.28236	31.24	PKFH	43.2	-16	58.44	-	-	-	-	-	105	V

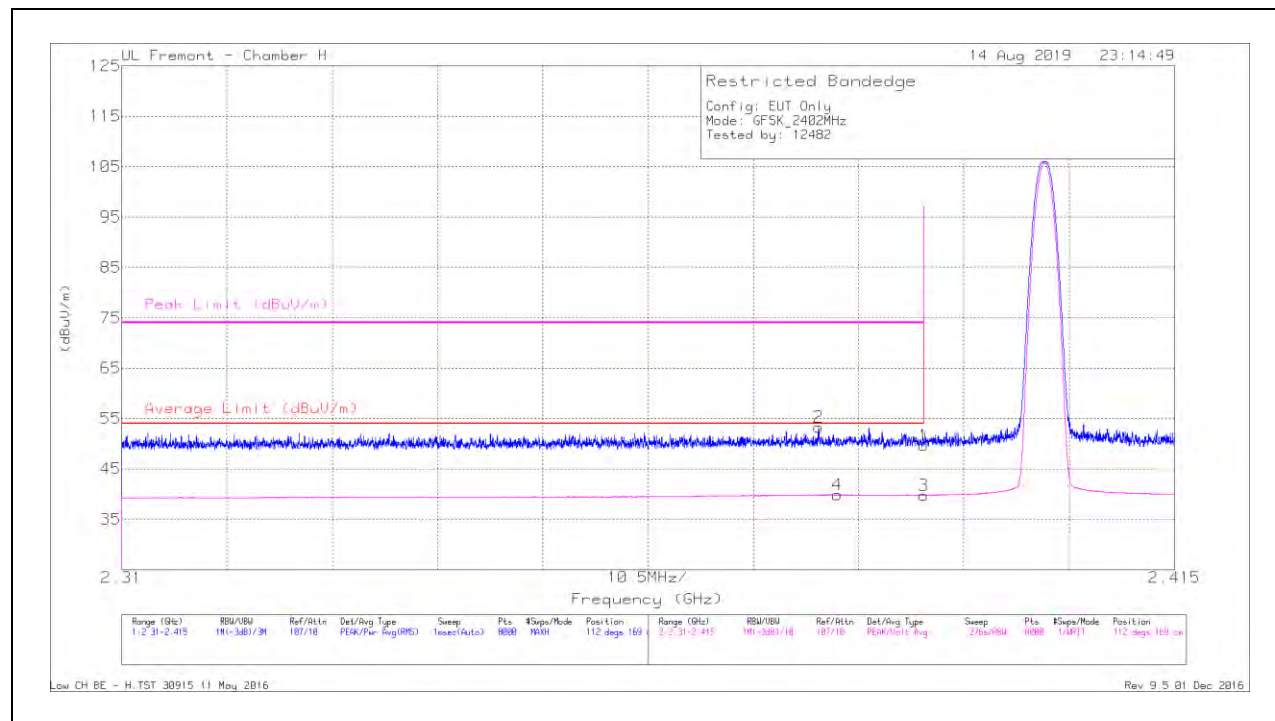
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



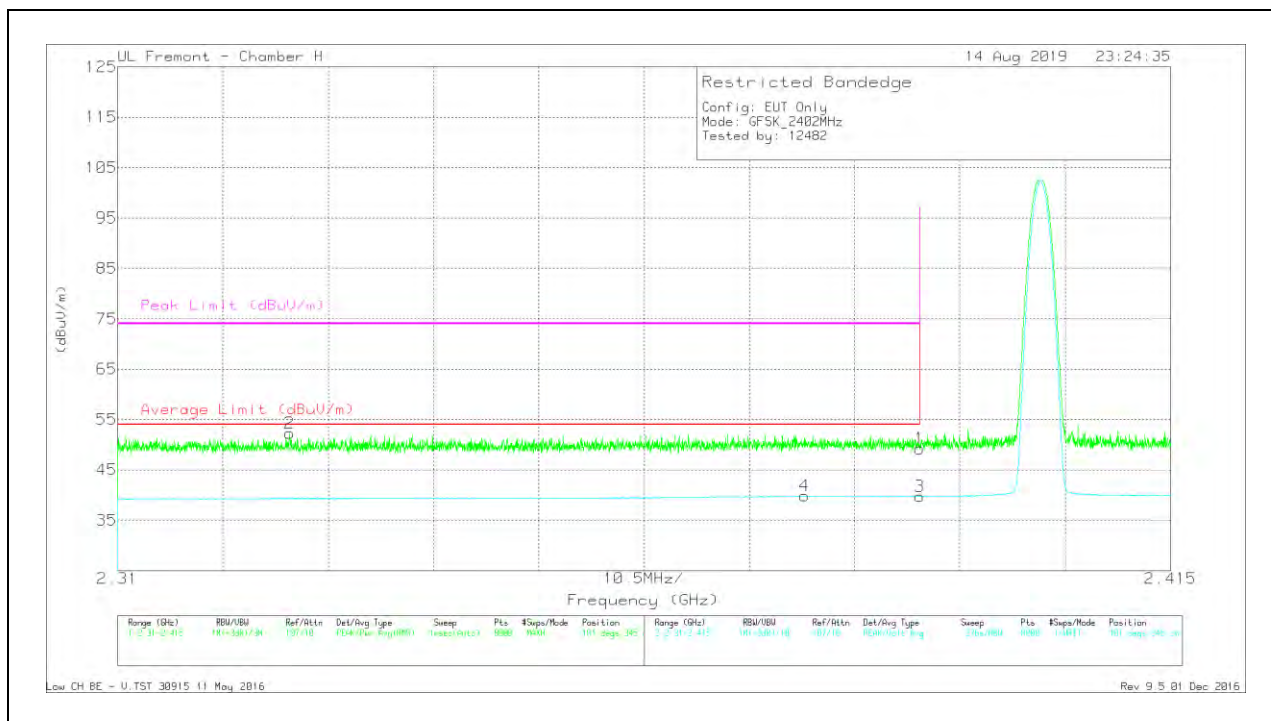
Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF T863 (dBm)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.38	44.61	Pk	32.2	-23.5	53.31	-	-	74	-20.69	112	169	H
4	* 2.381	31.14	VA1T	32.2	-23.5	39.84	54	-14.16	-	-	112	169	H
1	* 2.39	41.06	Pk	32.1	-23.5	49.66	-	-	74	-24.34	112	169	H
3	* 2.39	31.18	VA1T	32.1	-23.5	39.78	54	-14.22	-	-	112	169	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 T863 (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
2	* 2.327	44.1	Pk	31.8	-23.6	52.3	-	-	74	-21.7	101	345	V
4	* 2.379	31.12	VA1T	32.2	-23.5	39.82	54	-14.18	-	-	101	345	V
1	* 2.39	40.64	Pk	32.1	-23.5	49.24	-	-	74	-24.76	101	345	V
3	* 2.39	31.17	VA1T	32.1	-23.5	39.77	54	-14.23	-	-	101	345	V

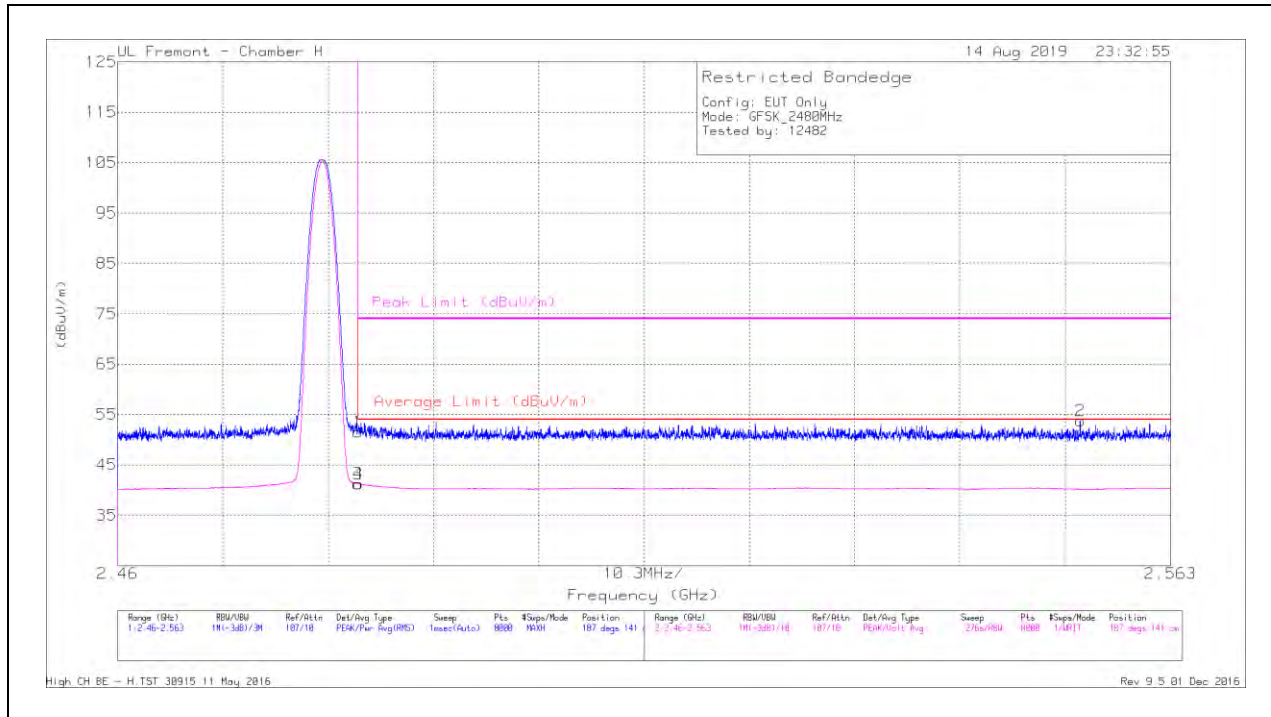
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



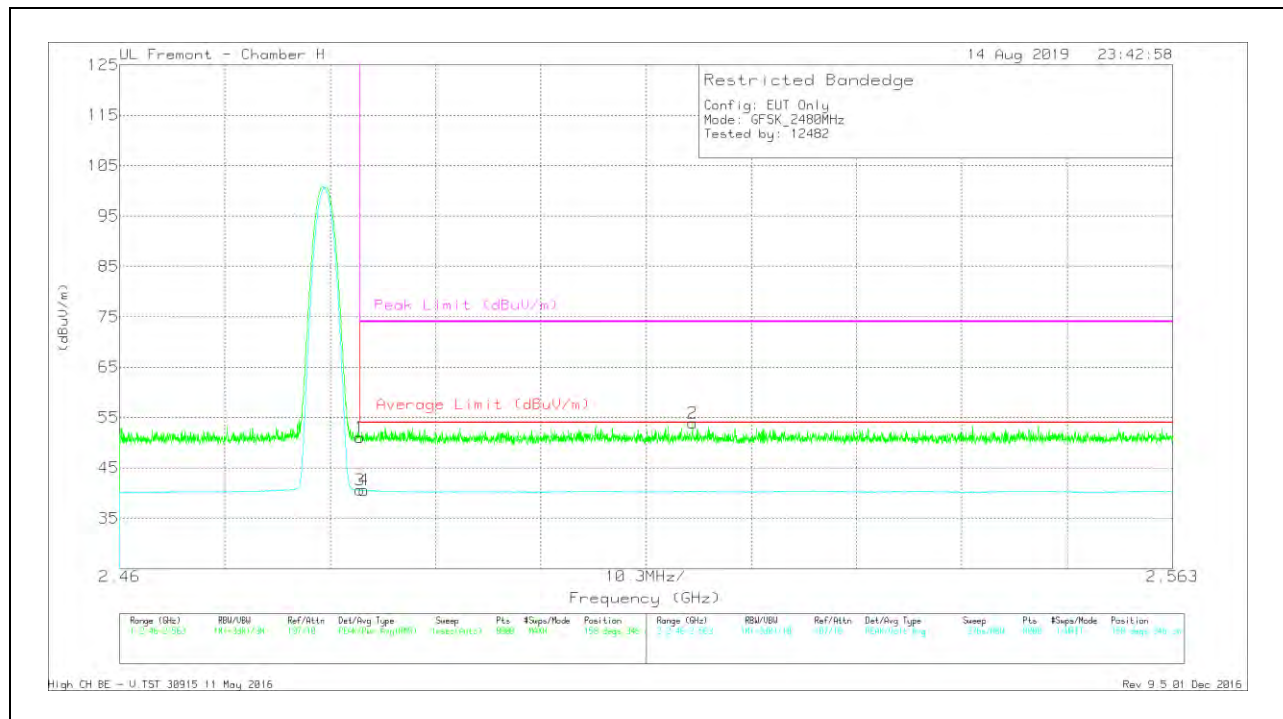
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dBm)	Ampl/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.37	Pk	32.5	-23.3	51.57	-	-	74	-22.43	187	141	H
3	* 2.484	32.07	VA1T	32.5	-23.3	41.27	54	-12.73	-	-	187	141	H
4	* 2.484	32.08	VA1T	32.5	-23.3	41.28	54	-12.72	-	-	187	141	H
2	2.554	44.53	Pk	32.4	-23.2	53.73	-	-	74	-20.27	187	141	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 T863 (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	41.87	Pk	32.5	-23.3	51.07	-	-	74	-22.93	158	346	V
3	* 2.484	31.36	VA1T	32.5	-23.3	40.56	54	-13.44	-	-	158	346	V
4	* 2.484	31.35	VA1T	32.5	-23.3	40.55	54	-13.45	-	-	158	346	V
2	2.516	44.52	Pk	32.6	-23.2	53.92	-	-	74	-20.08	158	346	V

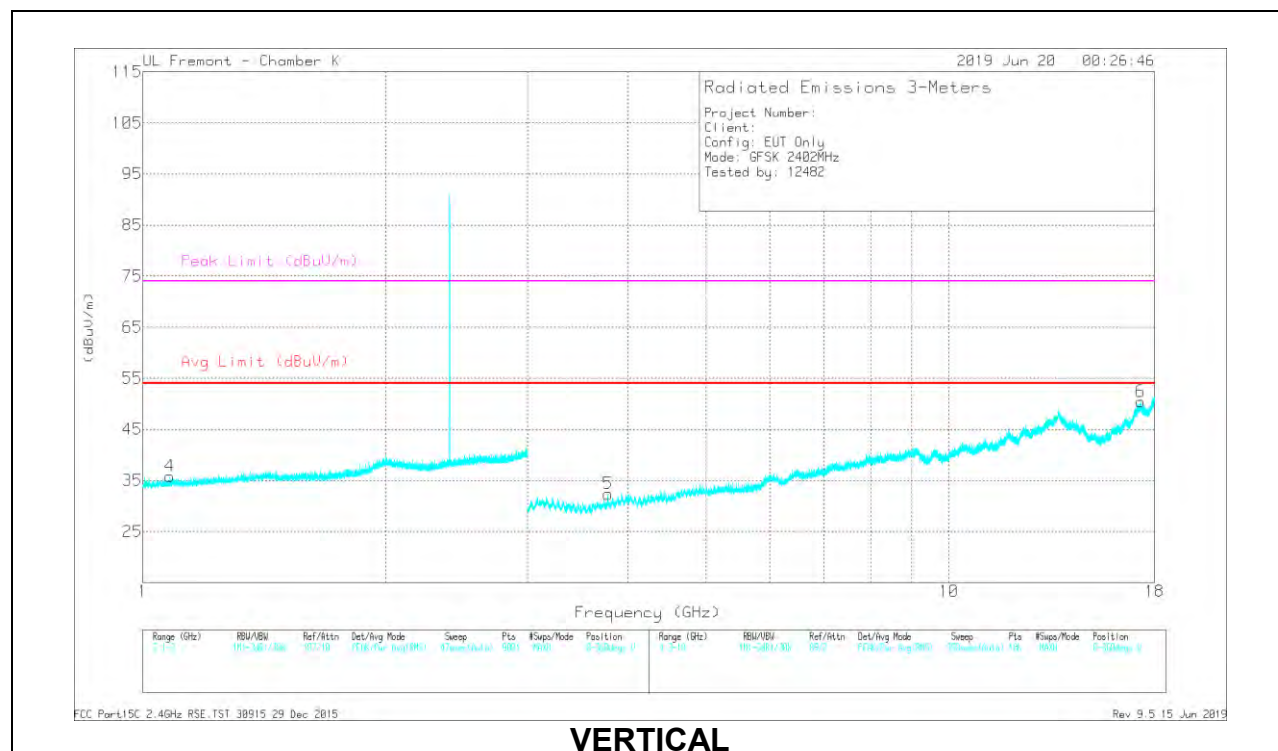
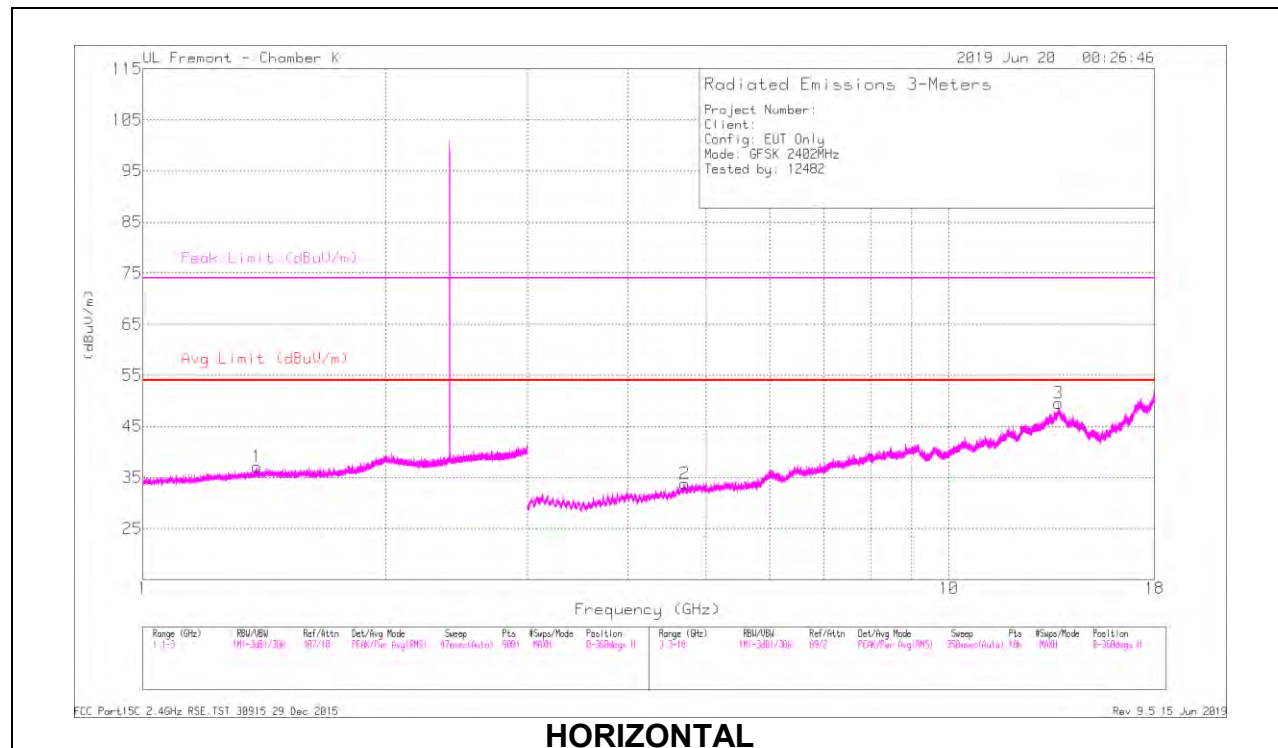
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



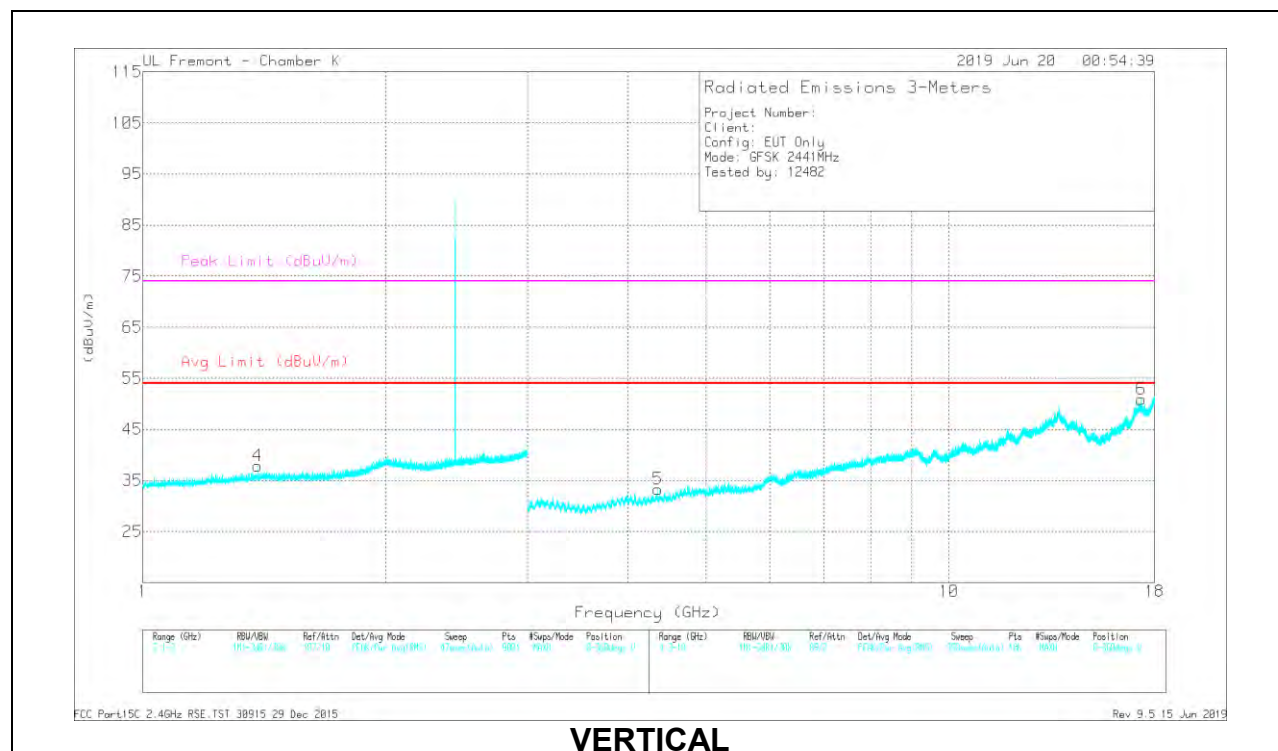
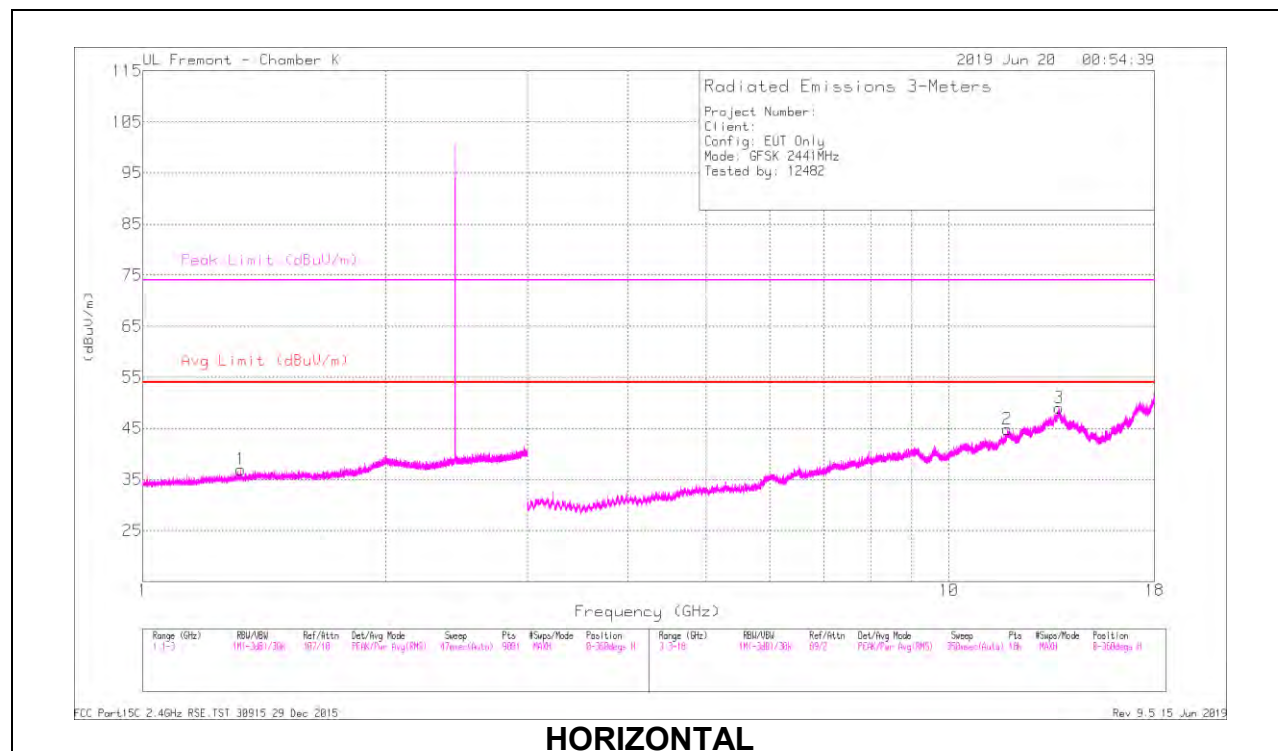
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.38747	42.94	PKFH	24.7	-23.8	43.84	-	-	74	-30.16	157	181	H
	* 1.38656	30.17	VA1T	24.7	-23.9	30.97	54	-23.03	-	-	157	181	H
4	* 1.07832	44.21	PKFH	23.7	-23.8	44.11	-	-	74	-29.89	212	172	V
	* 1.08073	29.92	VA1T	23.7	-23.8	29.82	54	-24.18	-	-	212	172	V
2	* 4.7014	40.36	PKFH	32.7	-30.4	42.66	-	-	74	-31.34	309	234	H
	* 4.70351	26.08	VA1T	32.7	-30.4	28.38	54	-25.62	-	-	309	234	H
3	13.67906	32.17	PKFH	43.1	-18.8	56.47	-	-	-	-	94	137	H
5	* 3.77489	40.52	PKFH	30.6	-31.6	39.52	-	-	74	-34.48	138	310	V
	* 3.77546	27.16	VA1T	30.6	-31.6	26.16	54	-27.84	-	-	138	310	V
6	17.30498	32.15	PKFH	43.1	-16	59.25	-	-	-	-	281	102	V

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

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

MID CHANNEL RESULTS

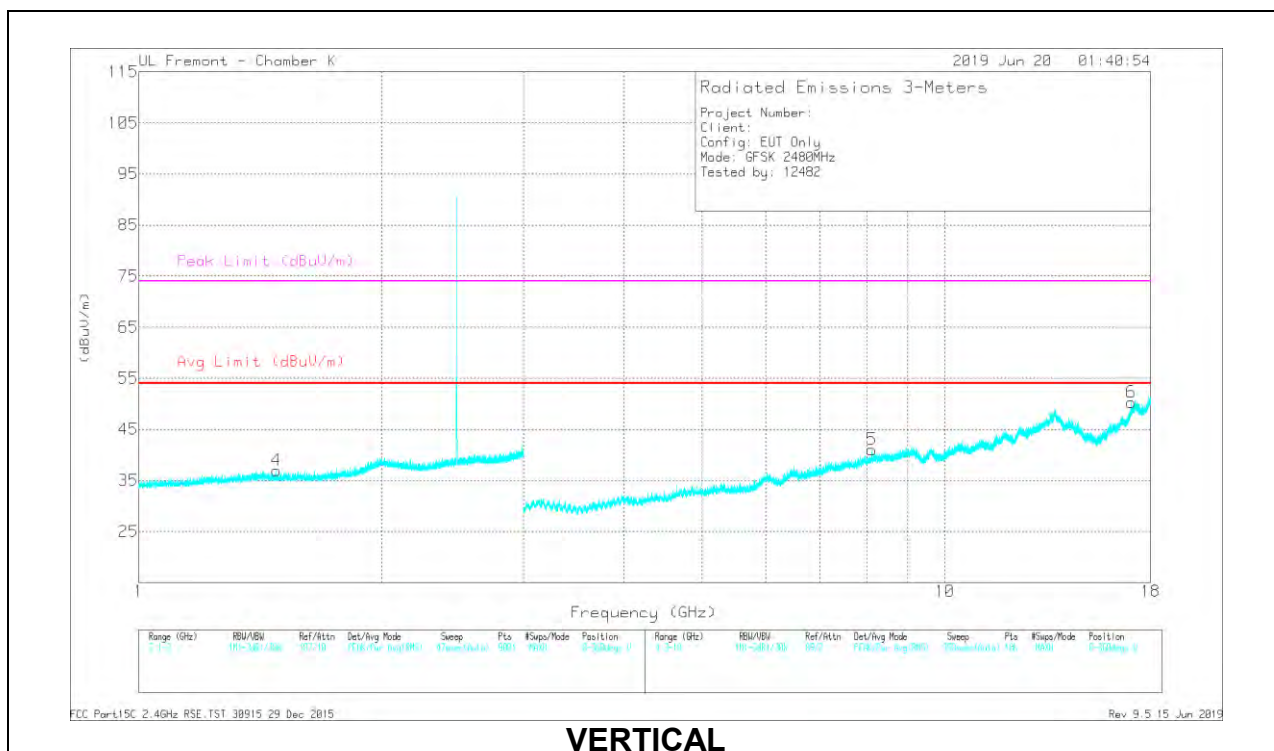
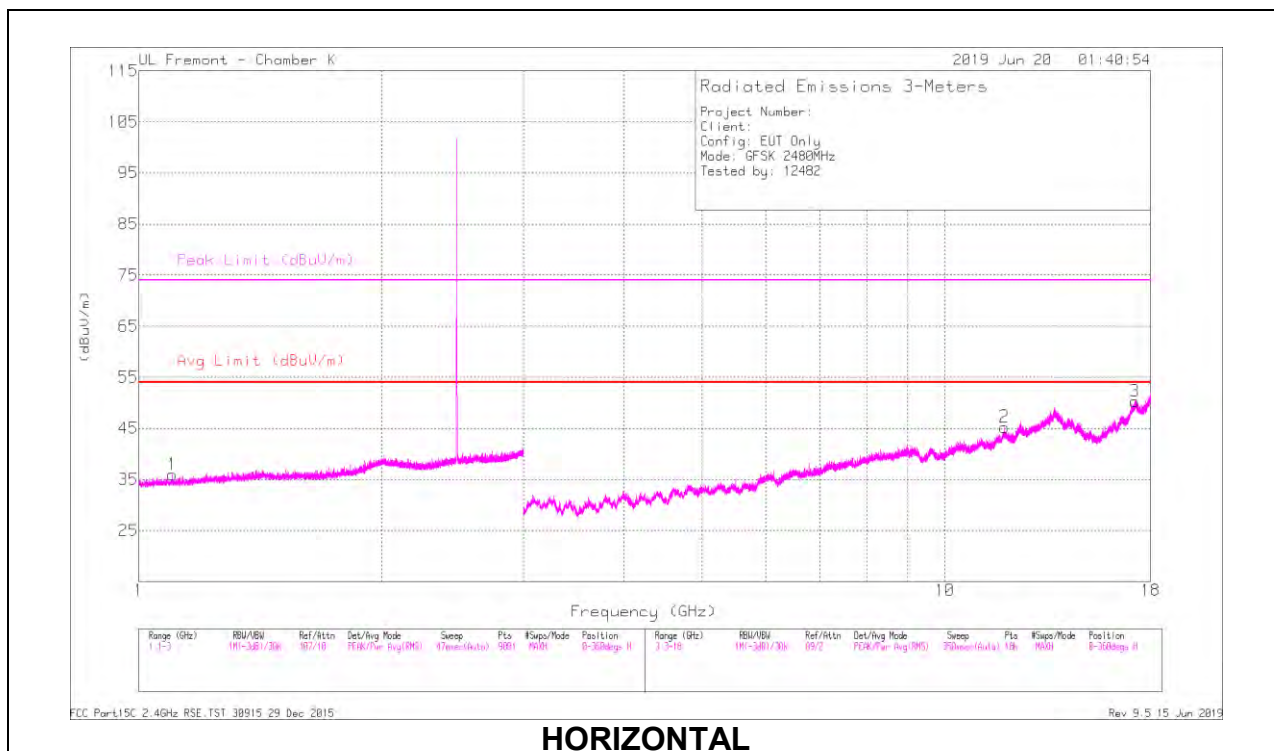


RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.32171	45.15	PKFH	24.5	-23.9	45.75	-	-	74	-28.25	250	230	H
	* 1.32311	30.22	VA1T	24.5	-23.9	30.82	54	-23.18	-	-	250	230	H
4	* 1.38635	43.13	PKFH	24.7	-23.9	43.93	-	-	74	-30.07	202	158	V
	* 1.38818	30.16	VA1T	24.7	-23.8	31.06	54	-22.94	-	-	202	158	V
2	* 11.82383	32.35	PKFH	39.9	-19.6	52.65	-	-	74	-21.35	301	105	H
	* 11.82625	18.62	VA1T	39.9	-19.6	38.92	54	-15.08	-	-	301	105	H
3	13.71074	31.66	PKFH	43	-18.6	56.06	-	-	-	-	118	326	H
5	* 4.35688	39.43	PKFH	31.6	-31	40.03	-	-	74	-33.97	9	278	V
	* 4.35659	26.28	VA1T	31.6	-31	26.88	54	-27.12	-	-	9	278	V
6	17.3315	30.38	PKFH	43.1	-15.8	57.68	-	-	-	-	31	212	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
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 PRE019081 1 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.10114	43.79	PKFH	23.8	-23.9	43.69	-	-	74	-30.31	98	393	H
	* 1.10029	29.99	VA1T	23.8	-23.9	29.89	54	-24.11	-	-	98	393	H
4	* 1.48112	43.49	PKFH	24.6	-23.9	44.19	-	-	74	-29.81	120	218	V
	* 1.48194	30.19	VA1T	24.6	-23.9	30.89	54	-23.11	-	-	120	218	V
2	* 11.84782	32.29	PKFH	40	-19.8	52.49	-	-	74	-21.51	78	287	H
	* 11.85047	18.82	VA1T	40	-19.8	39.02	54	-14.98	-	-	78	287	H
3	17.21516	31.31	PKFH	43.4	-16.6	58.11	-	-	-	-	221	380	H
5	* 8.12119	35.66	PKFH	37.9	-25.4	48.16	-	-	74	-25.84	287	102	V
	* 8.11991	22.22	VA1T	37.9	-25.4	34.72	54	-19.28	-	-	287	102	V
6	17.04744	30.36	PKFH	42.7	-16.7	56.36	-	-	-	-	326	165	V

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

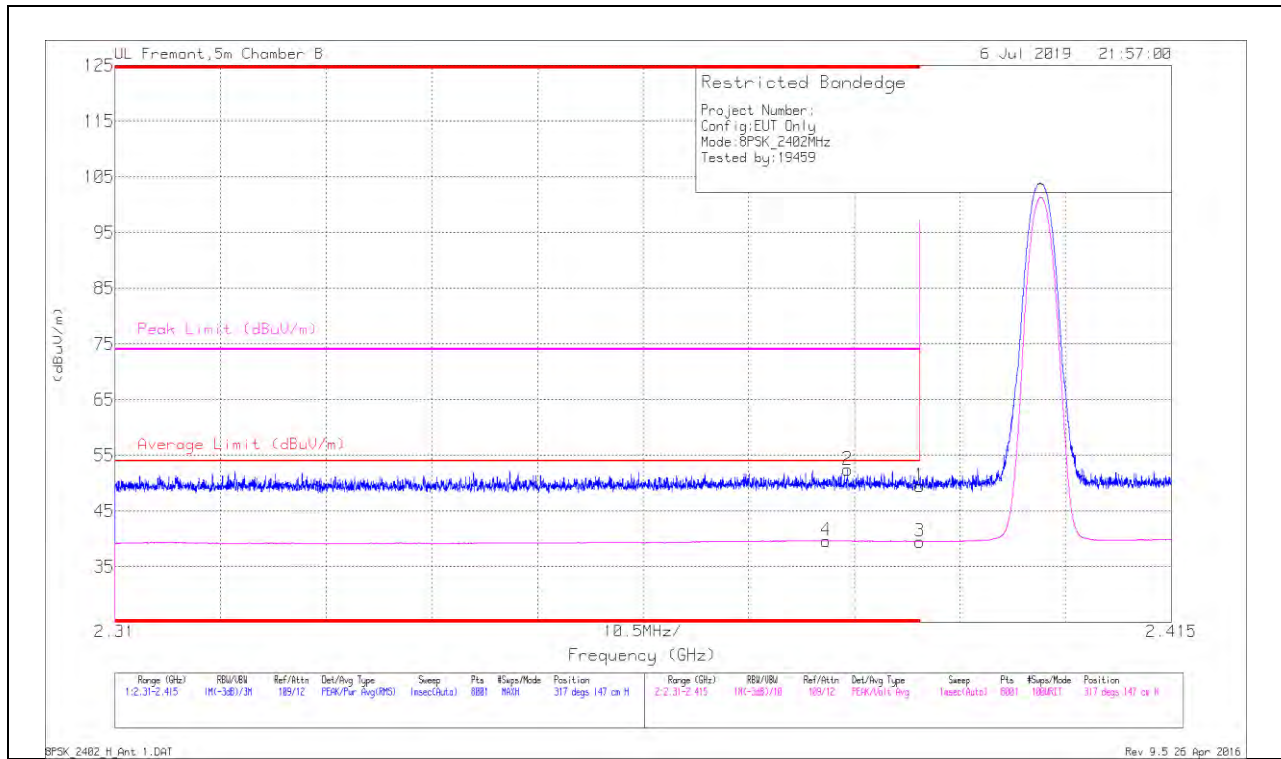
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.1.4. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

Antenna 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



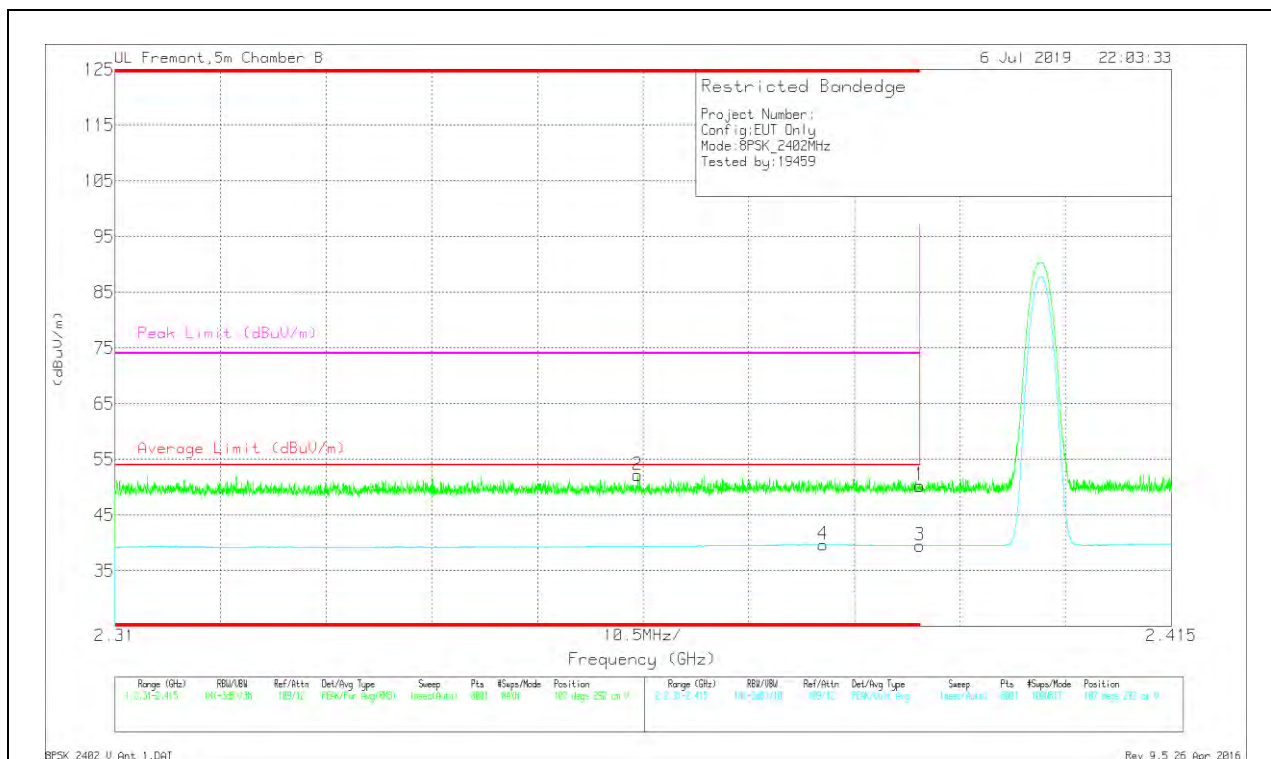
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	36.48	Pk	31.9	-18.9	49.48	-	-	74	-24.52	317	147	H
2	* 2.383	39.43	PK	31.8	-18.8	52.43	-	-	74	-21.57	317	147	H
3	* 2.39	26.53	PKFH	31.9	-18.9	39.53	-	-	74	-34.47	317	147	H
4	* 2.381	26.68	PKFH	31.8	-18.8	39.68	-	-	74	-34.32	317	147	H

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

Pk - Peak detector

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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (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
1	* 2.39	37.32	Pk	31.9	-18.9	50.32	-	-	74	-23.68	107	292	V
2	* 2.362	39.4	Pk	31.7	-18.9	52.2	-	-	74	-21.8	107	292	V
3	* 2.39	26.55	PKFH	31.9	-18.9	39.55	-	-	74	-34.45	107	292	V
4	* 2.38	26.69	PKFH	31.8	-18.8	39.69	-	-	74	-34.31	107	292	V

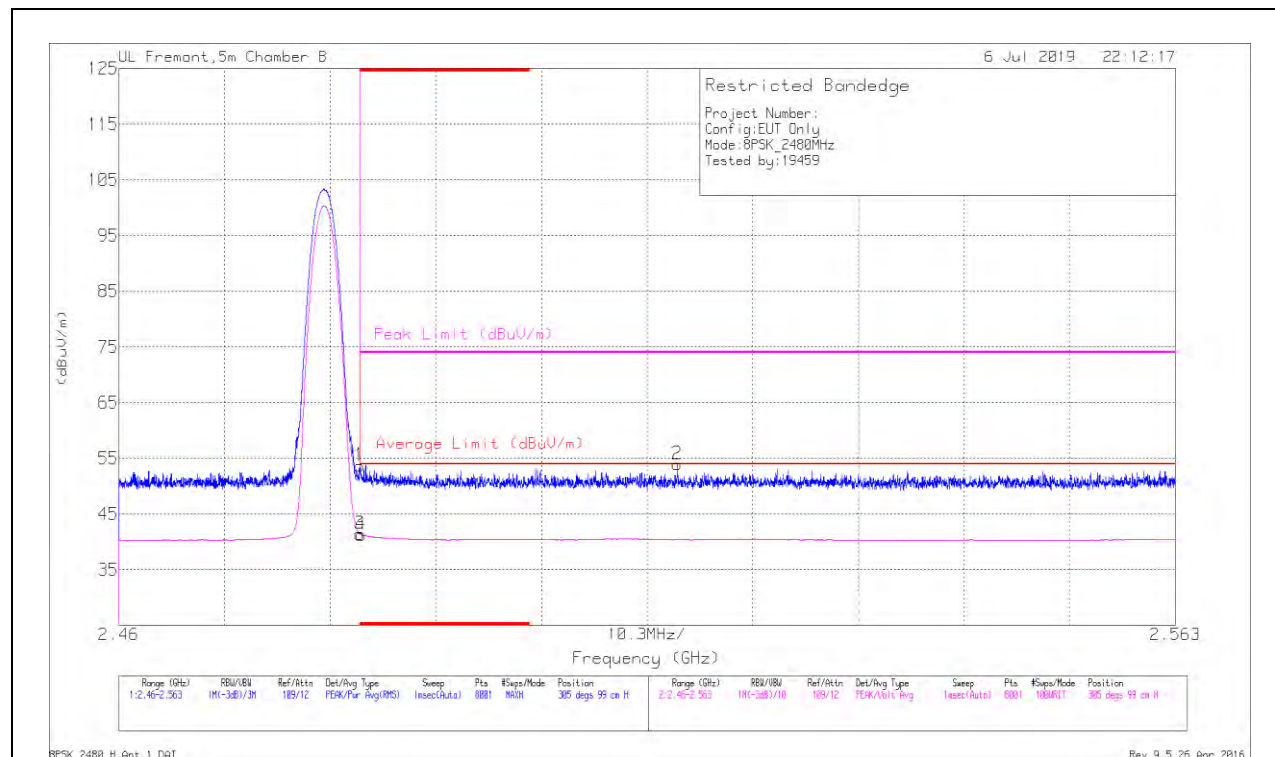
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



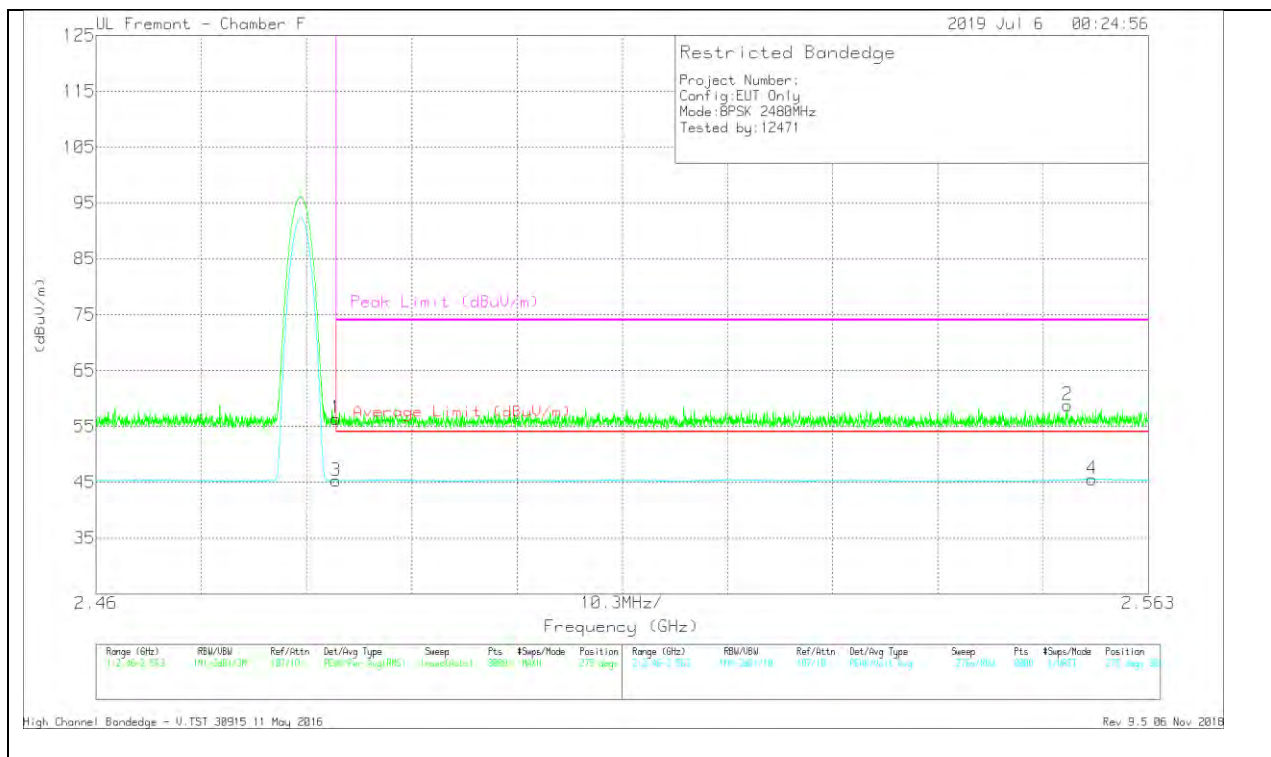
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cb/Filt/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.28	Pk	32.3	-18.9	53.68	-	-	74	-20.32	305	99	H
3	* 2.484	28.04	PKFH	32.3	-18.9	41.44	-	-	74	-32.56	305	99	H
4	* 2.484	27.91	PKFH	32.3	-18.9	41.31	-	-	74	-32.69	305	99	H
2	2.514	40.44	Pk	32.4	-18.9	53.94	-	-	74	-20.06	305	99	H

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

Pk - Peak detector

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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.72	Pk	32.4	-14.7	56.42	-	-	74	-17.58	275	380	V
2	2.555	41.01	Pk	32.3	-14.5	58.81	-	-	74	-15.19	275	380	V
3	* 2.484	27.57	VA1T	32.4	-14.7	45.27	54	-8.73	-	-	275	380	V
4	2.557	27.64	VA1T	32.4	-14.5	45.54	54	-8.46	-	-	275	380	V

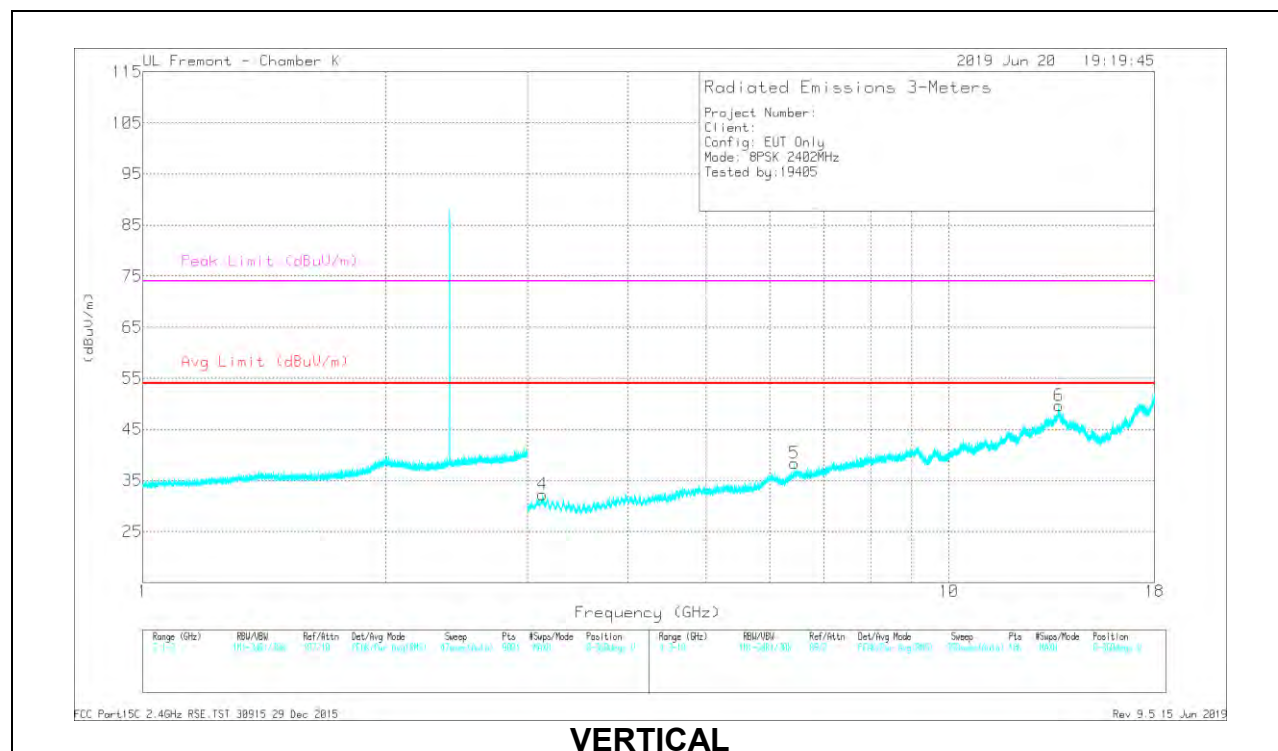
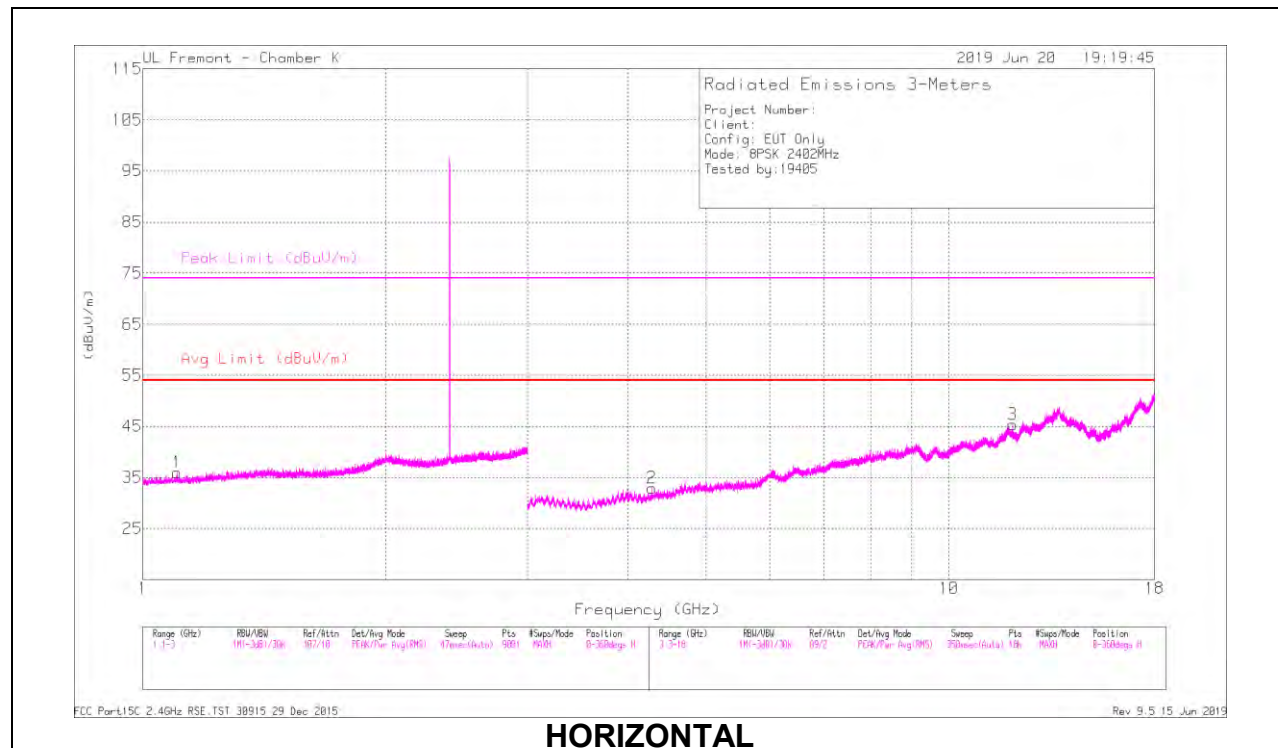
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS

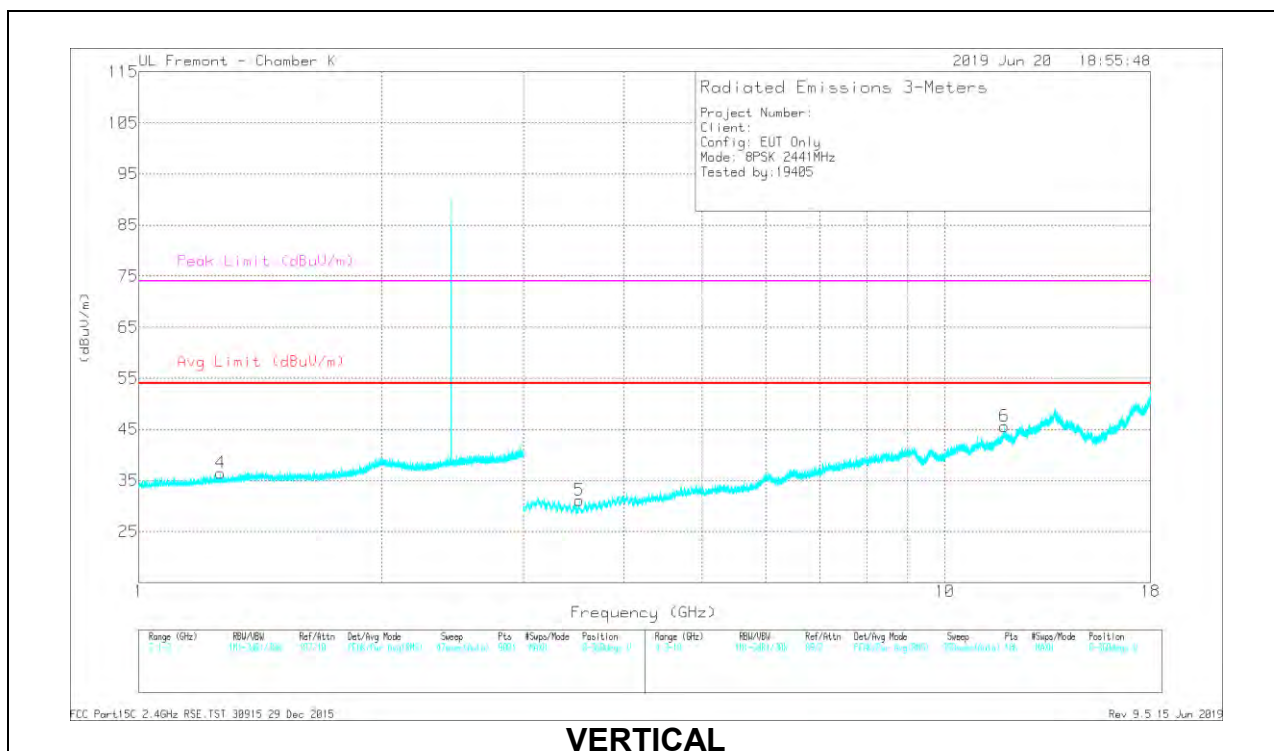
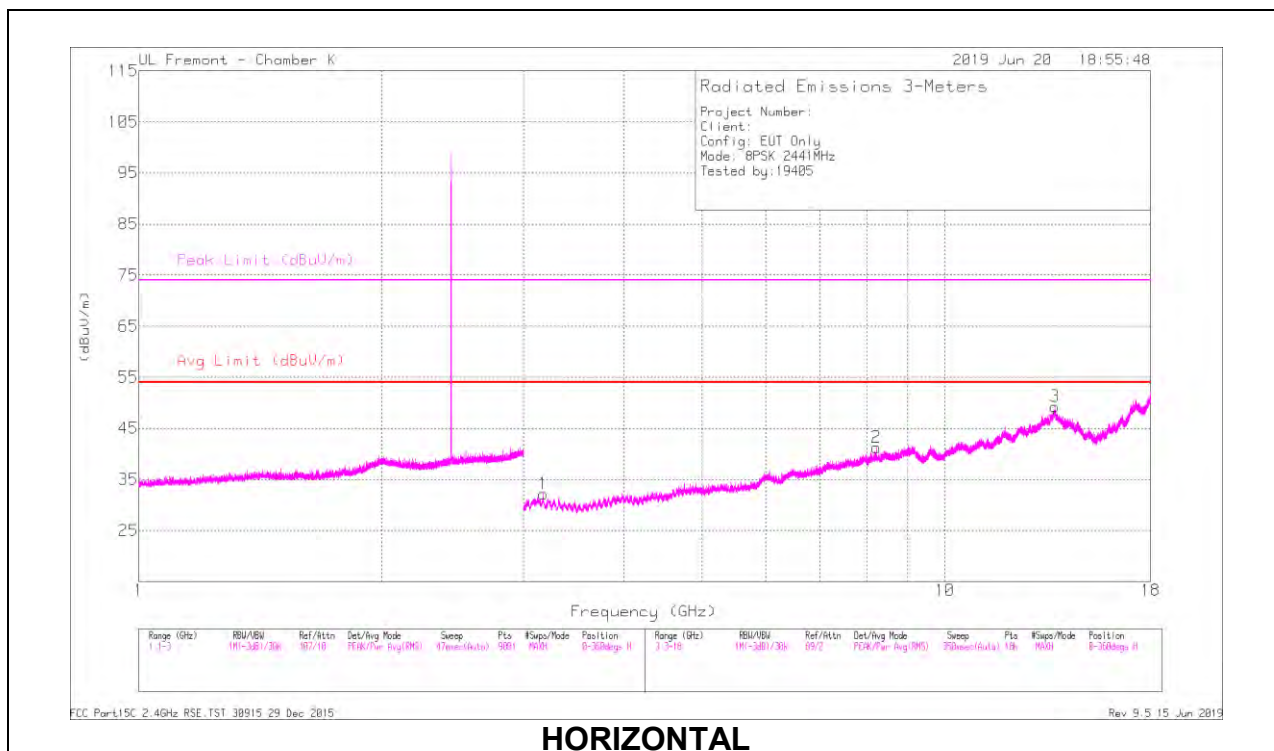


RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.10282	43.16	PKFH	23.8	-23.8	43.16	-	-	74	-30.84	360	101	H
	* 1.10204	29.93	VA1T	23.8	-23.8	29.93	54	-24.07	-	-	360	101	H
2	* 4.28424	40.3	PKFH	31.4	-31.4	40.3	-	-	74	-33.7	360	101	H
	* 4.28299	27.02	VA1T	31.4	-31.4	27.02	54	-26.98	-	-	360	101	H
3	* 11.99393	33.2	PKFH	40.1	-20.3	53	-	-	74	-21	360	101	H
	* 11.99602	18.97	VA1T	40.2	-20.3	38.87	54	-15.13	-	-	360	101	H
4	3.13349	42.81	PKFH	30.6	-33.2	40.21	-	-	-	-	360	200	V
5	6.43694	36.28	PKFH	35.5	-26.3	45.48	-	-	-	-	360	200	V
6	13.7079	31.49	PKFH	43	-18.6	55.89	-	-	-	-	360	200	V

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

MID CHANNEL RESULTS



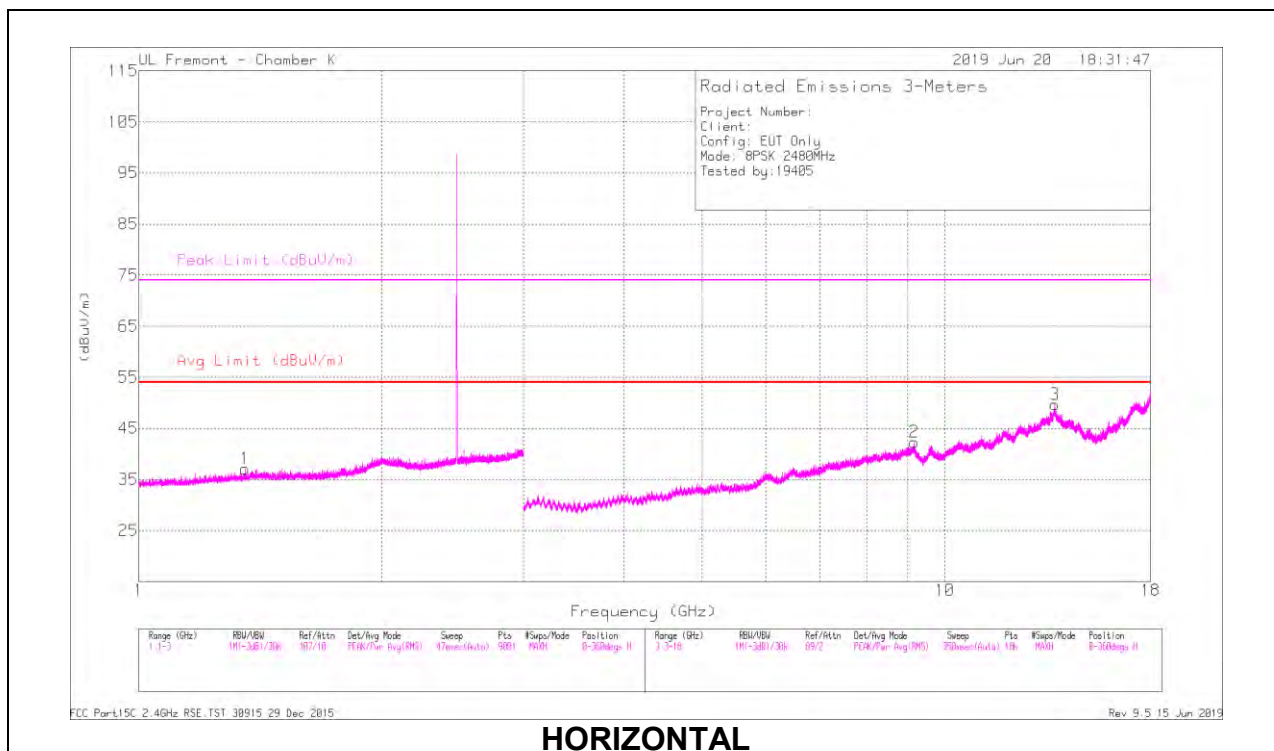
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.26284	43.56	PKFH	24.4	-23.9	44.06	-	-	74	-29.94	360	101	V
	* 1.26442	30.07	VA1T	24.4	-24	30.47	54	-23.53	-	-	360	101	V
1	3.17586	42.61	PKFH	30.7	-32.9	40.41	-	-	-	-	360	101	H
	3.17738	28.53	VA1T	30.7	-32.9	26.33	-	-	-	-	360	101	H
2	* 8.22281	36.06	PKFH	38	-24.8	49.26	-	-	74	-24.74	360	200	H
	* 8.22452	22.09	VA1T	38	-24.8	35.29	54	-18.71	-	-	360	200	H
3	13.69375	31.97	PKFH	43.1	-18.7	56.37	-	-	-	-	360	200	H
	13.69455	18.2	VA1T	43.1	-18.7	42.6	-	-	-	-	360	200	H
5	* 3.51748	40.81	PKFH	29.9	-32.3	38.41	-	-	74	-35.59	360	101	V
	* 3.52071	27.6	VA1T	29.9	-32.3	25.2	54	-28.8	-	-	360	101	V
6	* 11.85226	32.05	PKFH	40	-19.8	52.25	-	-	74	-21.75	360	200	V
	* 11.85395	18.97	VA1T	40	-19.8	39.17	54	-14.83	-	-	360	200	V

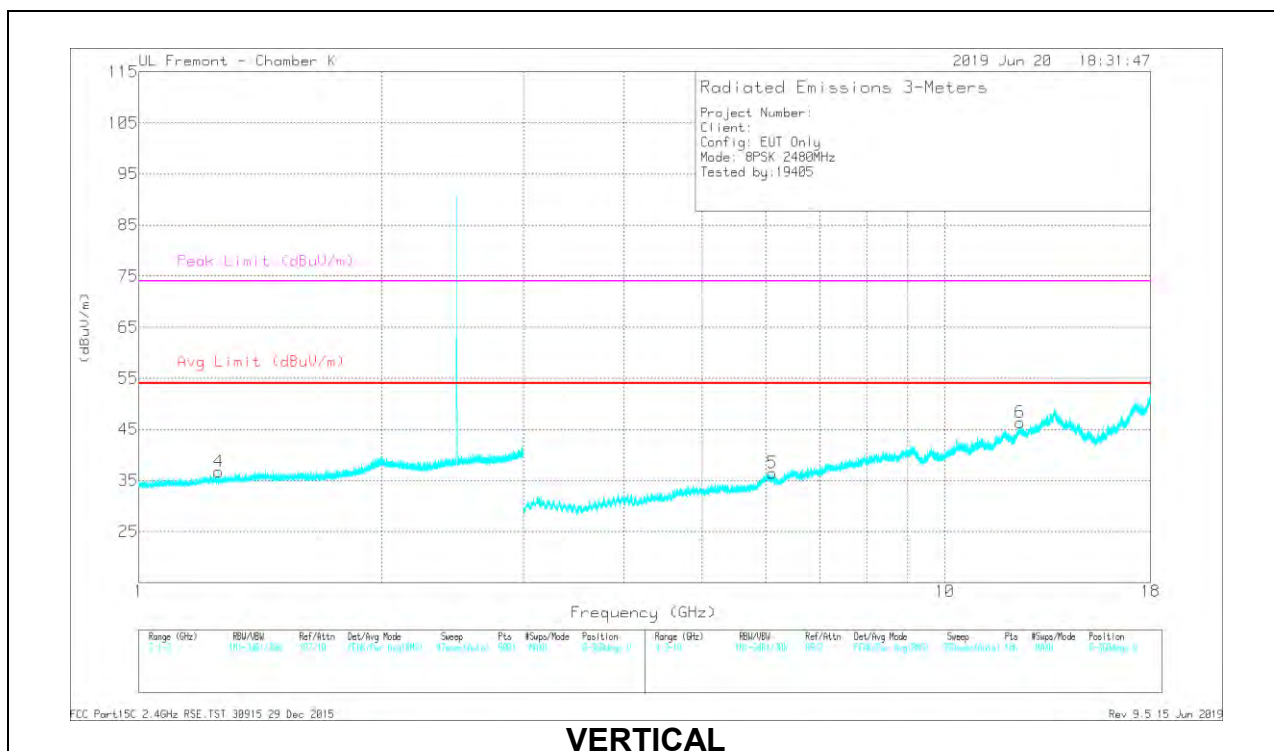
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.35457	43.64	PKFH	24.5	-23.8	44.34	-	-	74	-29.66	360	200	H
	* 1.3545	30.18	VA1T	24.5	-23.8	30.88	54	-23.12	-	-	360	200	H
4	* 1.25481	43.11	PKFH	24.3	-24	43.41	-	-	74	-30.59	360	200	V
	* 1.25513	30.06	VA1T	24.3	-24	30.36	54	-23.64	-	-	360	200	V
2	* 9.16594	33.92	PKFH	38.6	-22.9	49.62	-	-	74	-24.38	360	200	H
	* 9.16624	20.5	VA1T	38.6	-22.9	36.2	54	-17.8	-	-	360	200	H
3	13.69058	31.51	PKFH	43.1	-18.8	55.81	-	-	-	-	360	200	H
	13.69065	18.25	VA1T	43.1	-18.8	42.55	-	-	-	-	360	200	H
5	6.11193	37.28	PKFH	34.9	-27.3	44.88	-	-	-	-	360	102	V
	6.11199	22.9	VA1T	34.9	-27.3	30.5	-	-	-	-	360	102	V
6	* 12.40836	33.2	PKFH	40.9	-20.1	54	-	-	74	-20	360	200	V
	* 12.40993	19.41	VA1T	40.9	-20.1	40.21	54	-13.79	-	-	360	200	V

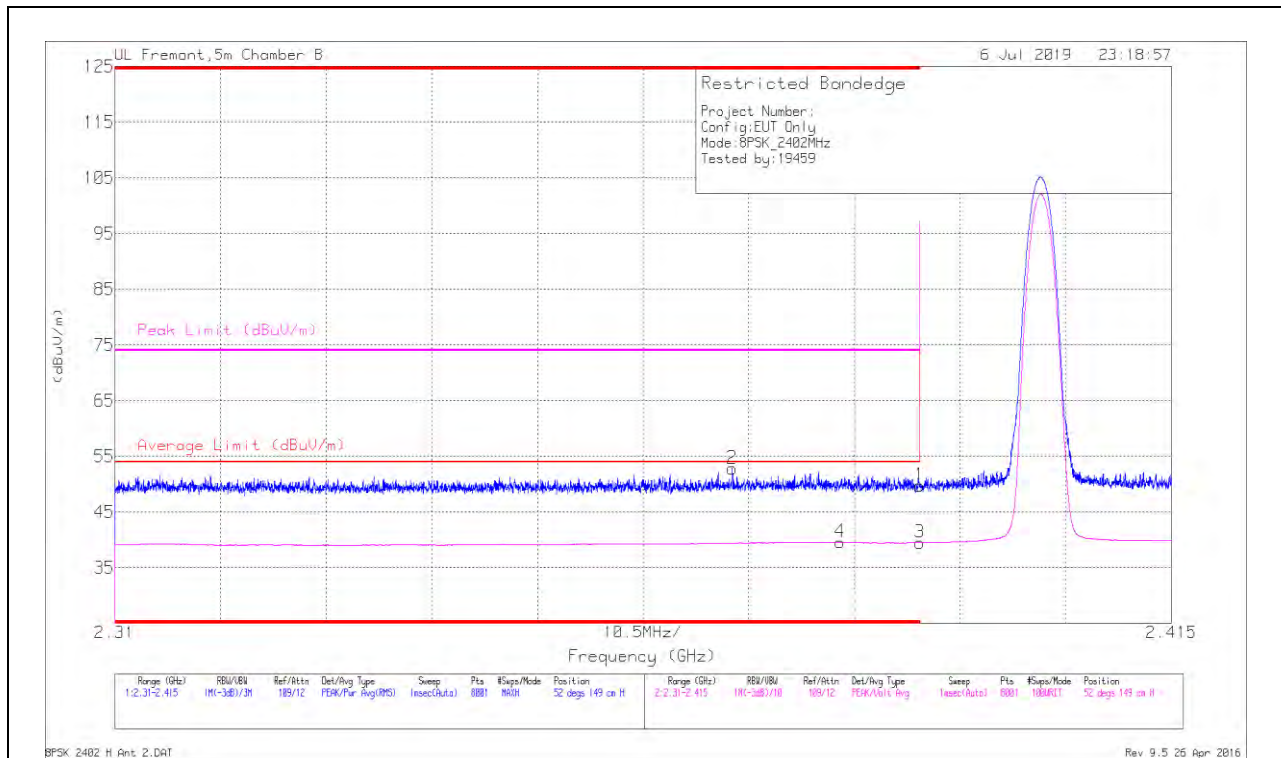
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



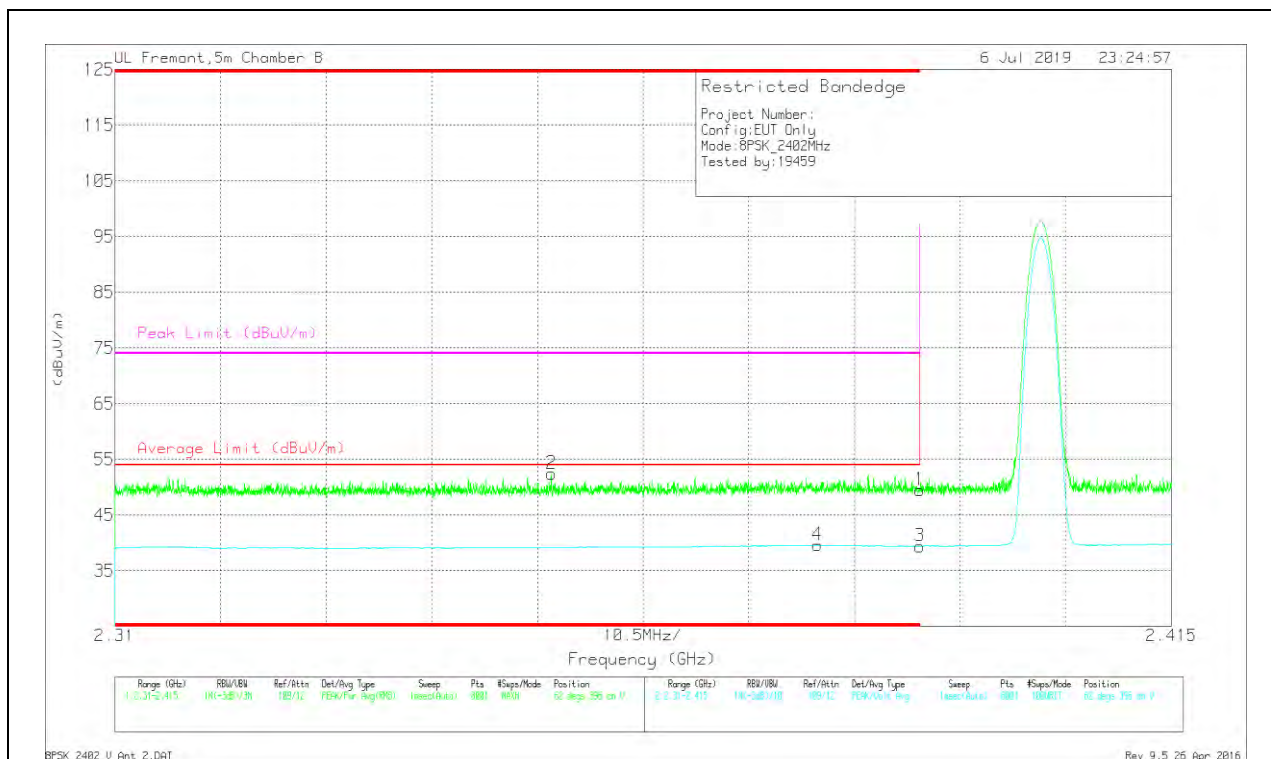
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filt/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	36.8	Pk	31.9	-18.9	49.8	-	-	74	-24.2	52	149	H
2	* 2.371	39.9	Pk	31.8	-18.9	52.8	-	-	74	-21.2	52	149	H
3	* 2.39	26.52	PKFH	31.9	-18.9	39.52	-	-	74	-34.48	52	149	H
4	* 2.382	26.58	PKFH	31.8	-18.8	39.58	-	-	74	-34.42	52	149	H

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

Pk - Peak detector

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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	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	36.47	Pk	31.9	-18.9	49.47	-	-	74	-24.53	62	396	V
2	* 2.353	39.83	Pk	31.6	-19	52.43	-	-	74	-21.57	62	396	V
3	* 2.39	26.42	PKFH	31.9	-18.9	39.42	-	-	74	-34.58	62	396	V
4	* 2.38	26.59	PKFH	31.8	-18.8	39.59	-	-	74	-34.41	62	396	V

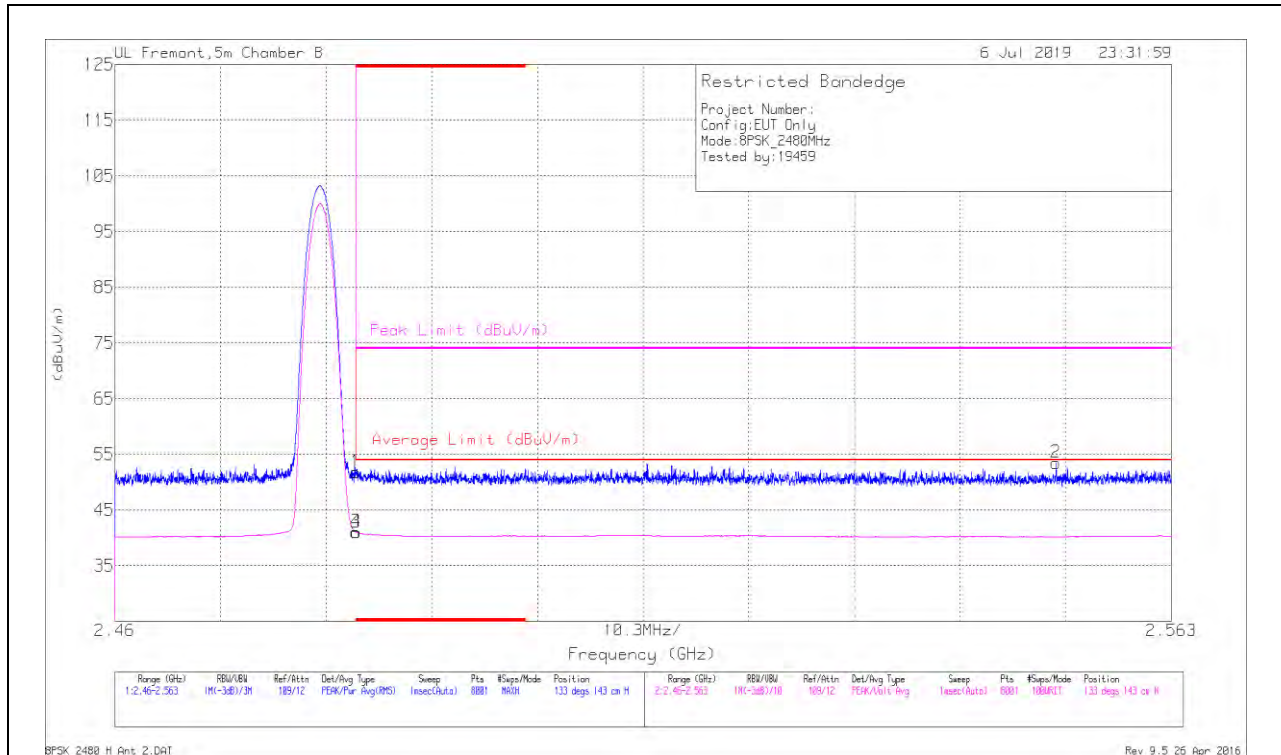
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



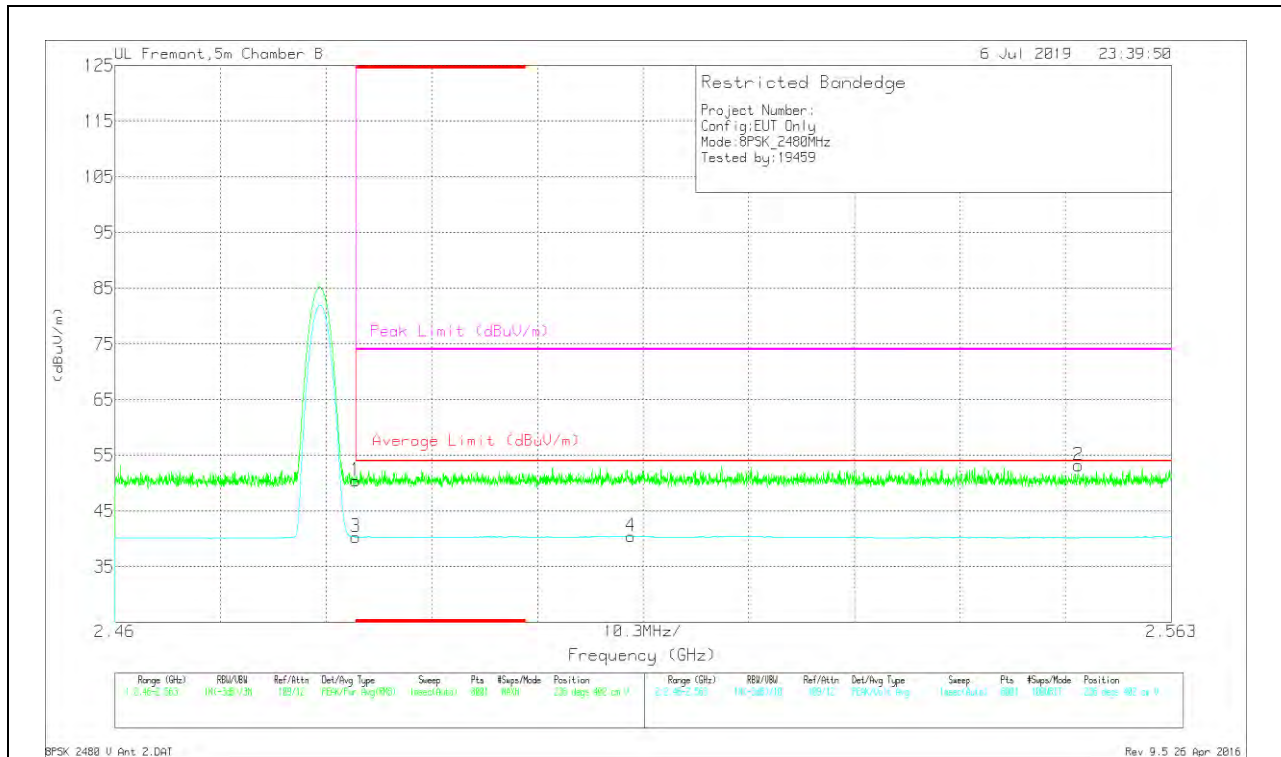
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cb/Fltr/P ad (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.38	Pk	32.3	-18.9	51.78	-	-	74	-22.22	133	143	H
3	* 2.484	27.62	PKFH	32.3	-18.9	41.02	-	-	74	-32.98	133	143	H
4	* 2.484	27.6	PKFH	32.3	-18.9	41	-	-	74	-33	133	143	H
2	2.552	40.06	Pk	32.3	-18.9	53.46	-	-	74	-20.54	133	143	H

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

Pk - Peak detector

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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	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	* 2.484	37.07	Pk	32.3	-18.9	50.47	-	-	74	-23.53	236	402	V
3	* 2.484	26.95	PKFH	32.3	-18.9	40.35	-	-	74	-33.65	236	402	V
4	2.51	26.88	PKFH	32.4	-18.8	40.48	-	-	74	-33.52	236	402	V
2	2.554	39.83	Pk	32.3	-18.9	53.23	-	-	74	-20.77	236	402	V

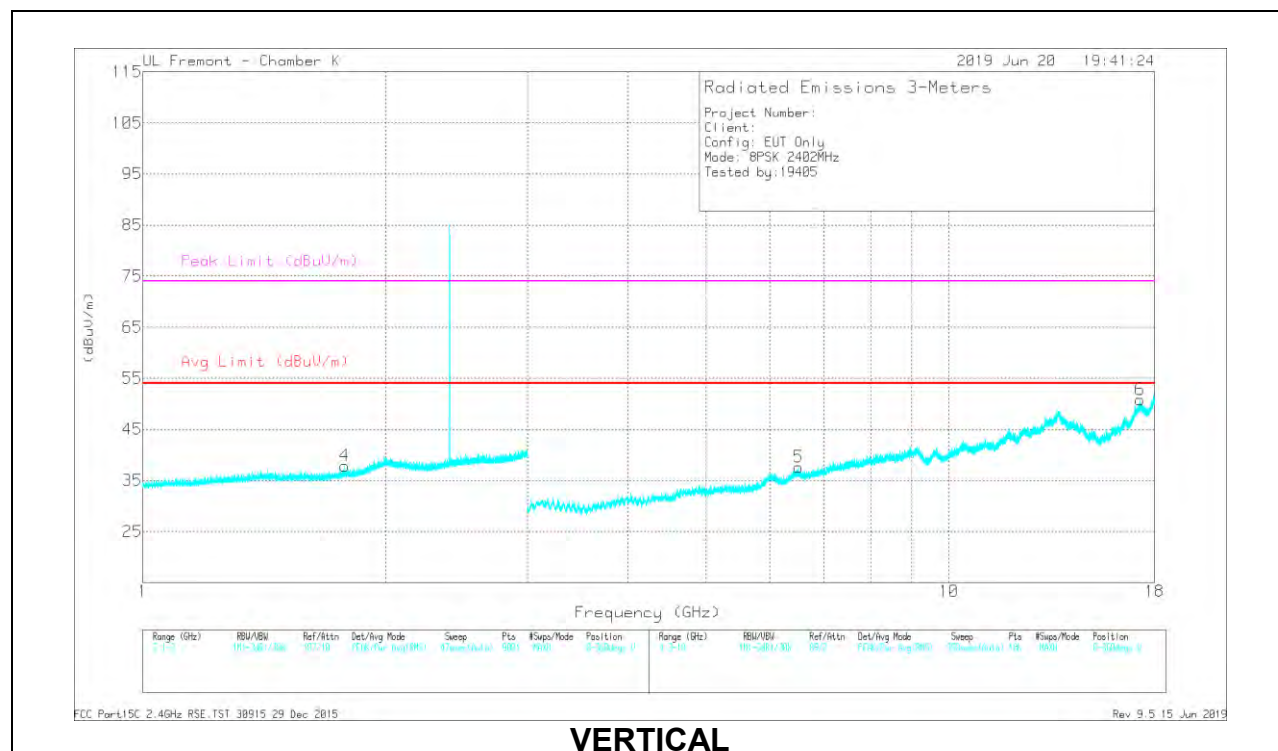
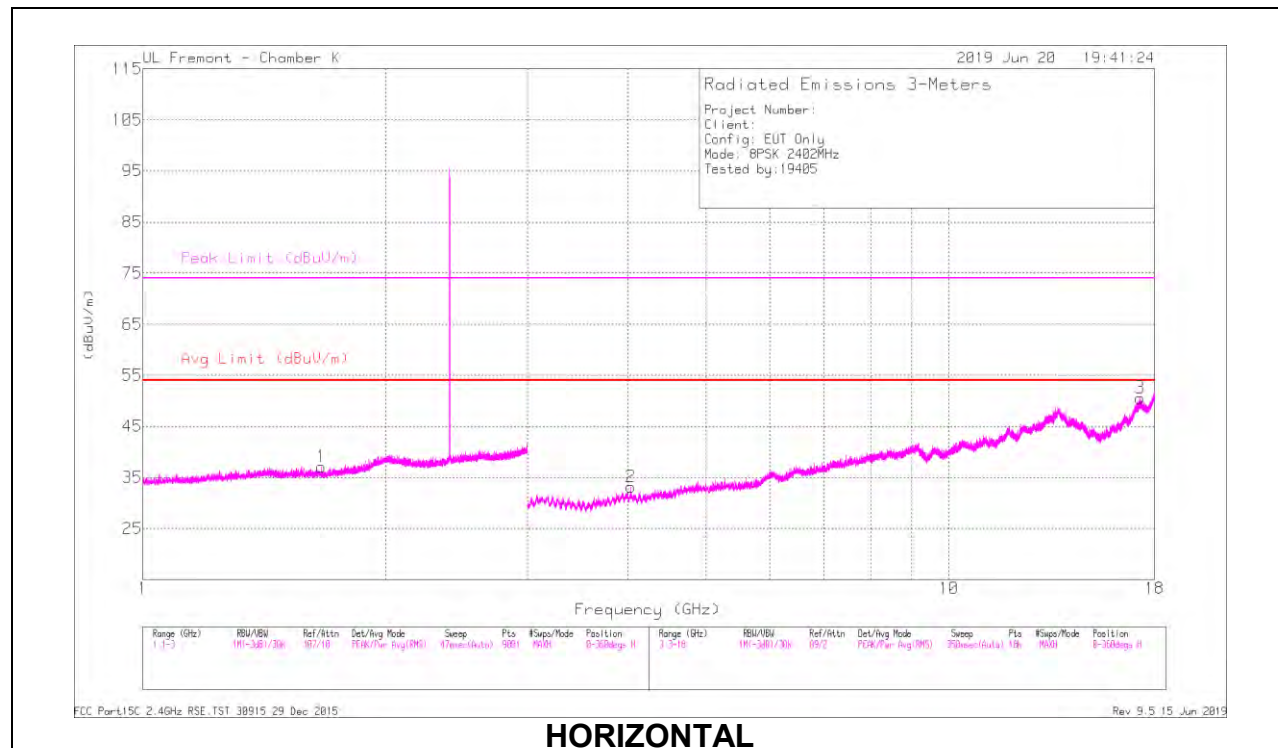
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



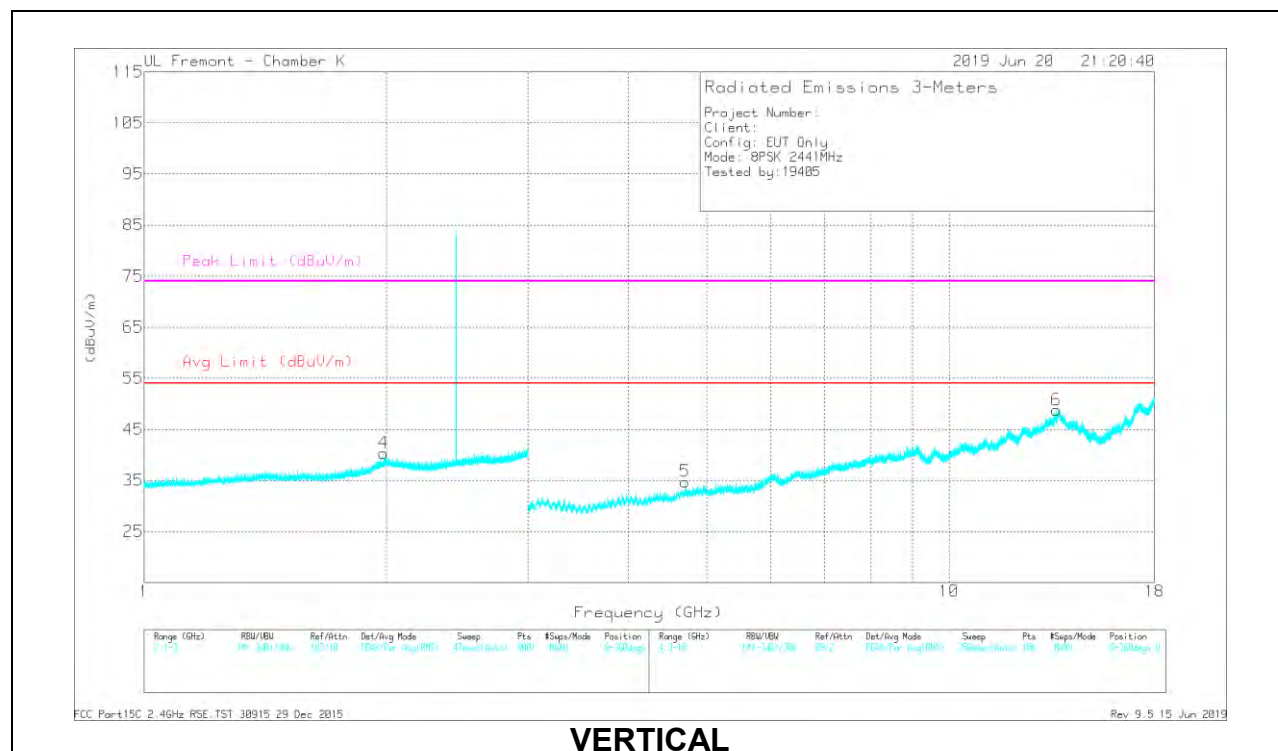
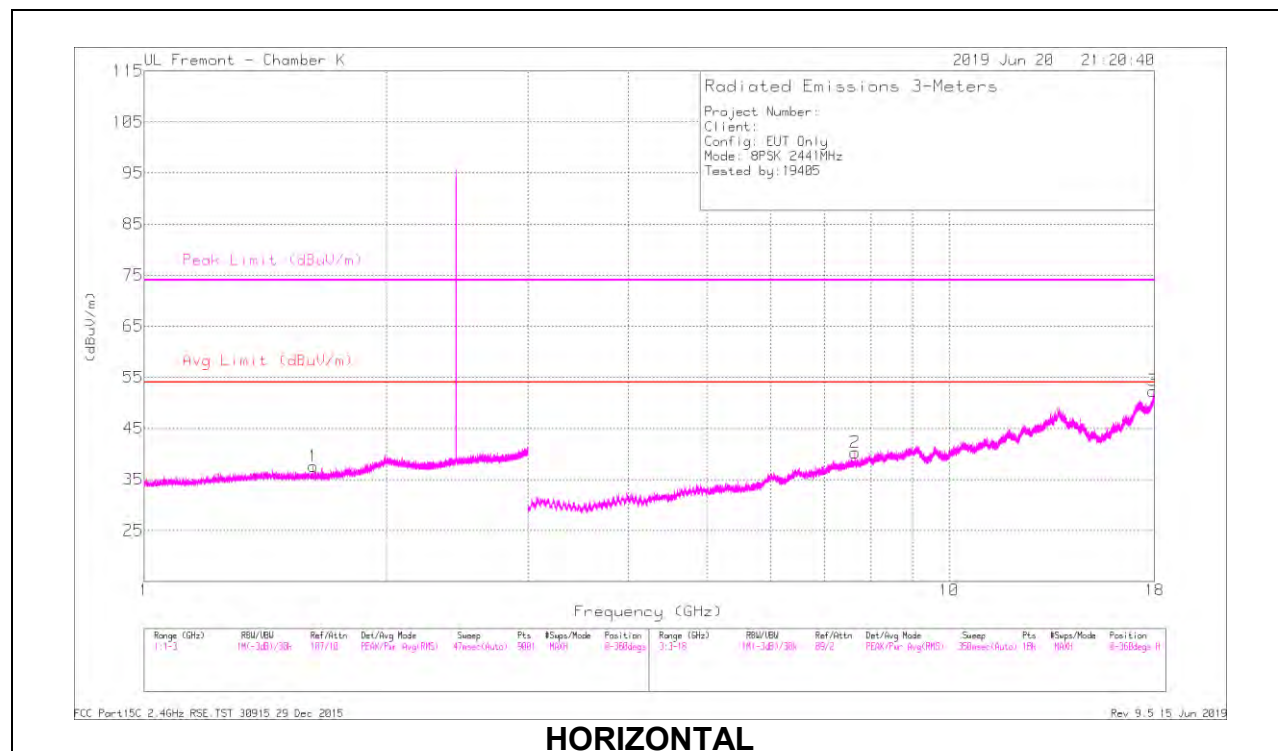
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.66536	43.73	PKFH	24.9	-24.1	44.53	-	-	74	-29.47	360	200	H
	* 1.66506	30.35	VA1T	24.9	-24.1	31.15	54	-22.85	-	-	360	200	H
4	1.78232	43.24	PKFH	25.5	-24	44.74	-	-	-	-	360	102	V
	1.7816	30.2	VA1T	25.5	-24.1	31.6	-	-	-	-	360	102	V
2	* 4.03281	42.16	PKFH	31.4	-31.3	42.26	-	-	74	-31.74	360	102	H
	* 4.03185	26.95	VA1T	31.4	-31.3	27.05	54	-26.95	-	-	360	102	H
3	17.28686	31.32	PKFH	43.2	-15.9	58.62	-	-	-	-	360	200	H
5	6.51347	36.06	PKFH	35.8	-26.6	45.26	-	-	-	-	360	200	V
6	17.27235	31.15	PKFH	43.3	-16.2	58.25	-	-	-	-	360	102	V

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

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

MID CHANNEL RESULTS



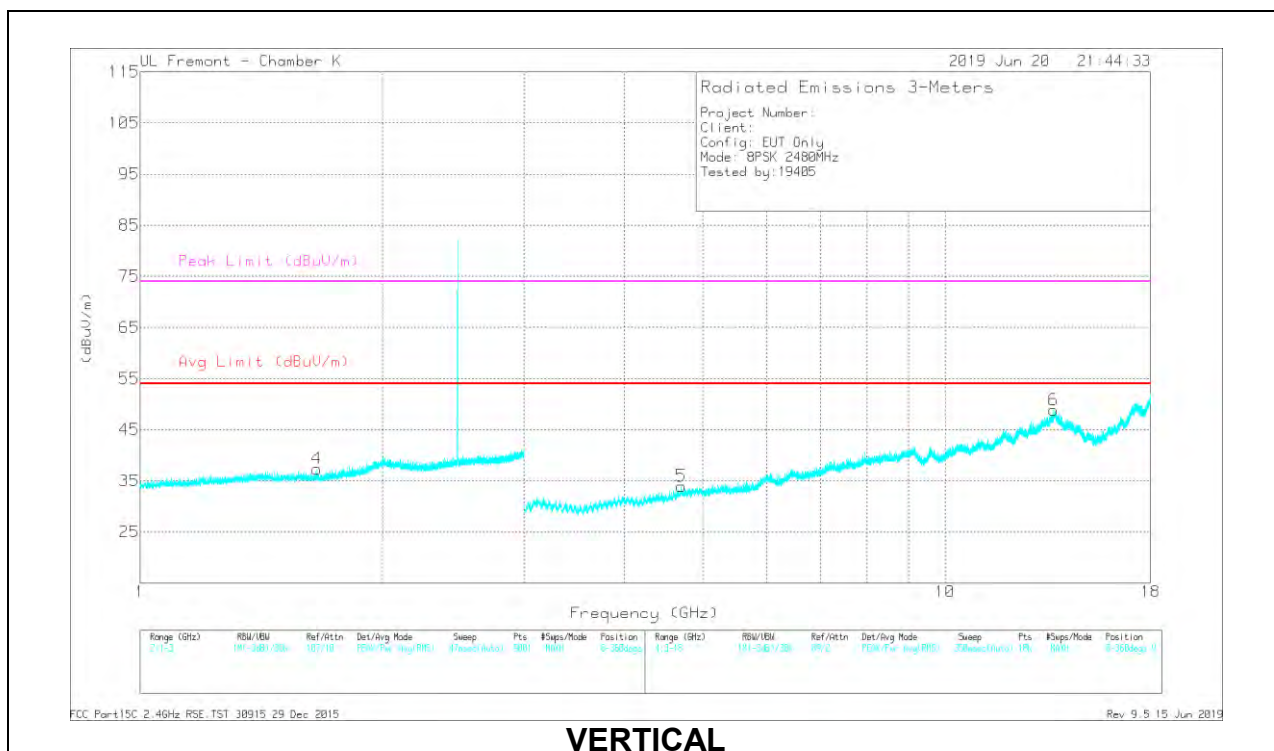
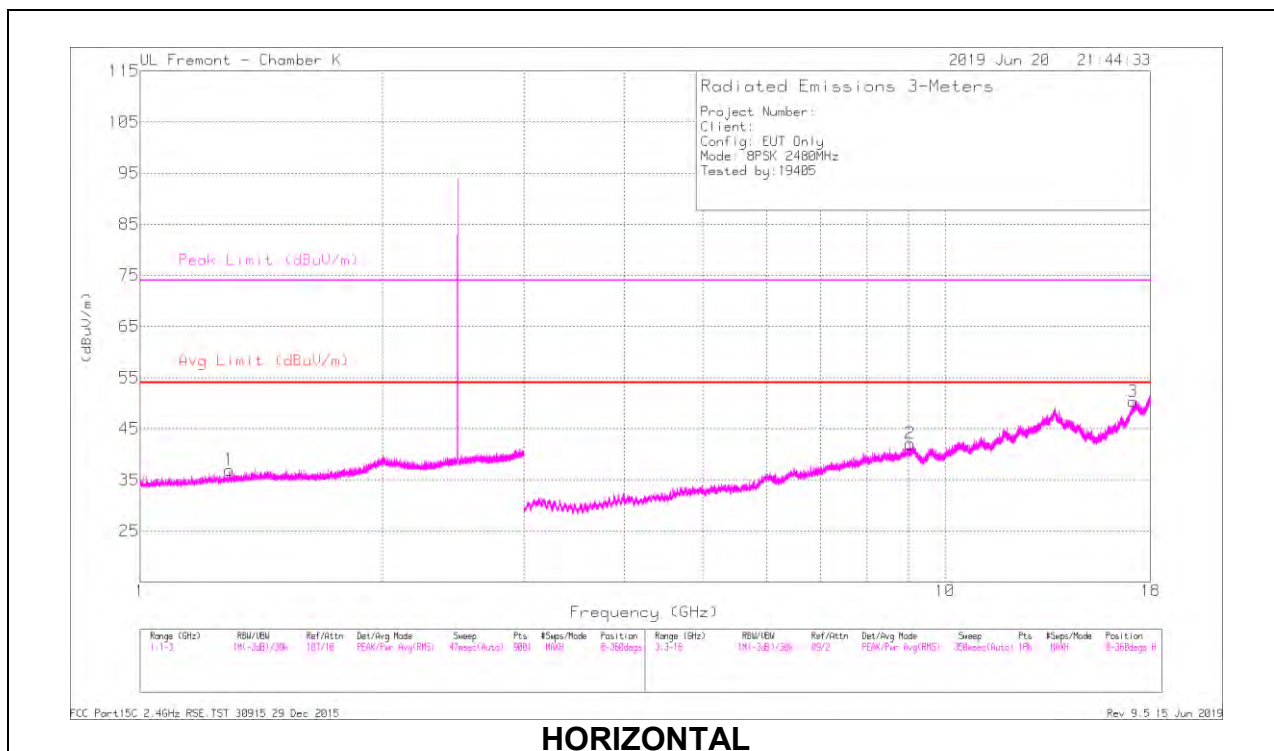
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.62027	43.9	PKFH	24.9	-24.1	44.7	-	-	74	-29.3	360	200	H
	* 1.62235	30.31	VA1T	24.9	-24.2	31.01	54	-22.99	-	-	360	200	H
4	1.9856	43.36	PKFH	27.9	-24.4	46.86	-	-	-	-	360	102	V
	1.98469	30.16	VA1T	27.9	-24.4	33.66	-	-	-	-	360	102	V
2	* 7.64175	35.07	PKFH	37.3	-25.5	46.87	-	-	74	-27.13	360	102	H
	* 7.64386	21.84	VA1T	37.3	-25.5	33.64	54	-20.36	-	-	360	102	H
3	* 17.91961	30.17	PKFH	43.7	-15.5	58.37	-	-	74	-15.63	360	200	H
	* 17.91848	16.96	VA1T	43.7	-15.5	45.16	54	-8.84	-	-	360	200	H
5	* 4.69821	39.02	PKFH	32.7	-30.5	41.22	-	-	74	-32.78	360	200	V
	* 4.69835	26.1	VA1T	32.7	-30.5	28.3	54	-25.7	-	-	360	200	V
6	13.58569	31.38	PKFH	43.1	-19.2	55.28	-	-	-	-	360	102	V

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

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 PRE019081 1 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.29177	42.97	PKFH	24.5	-23.9	43.57	-	-	74	-30.43	360	200	H
	* 1.29071	30.09	VA1T	24.5	-23.9	30.69	54	-23.31	-	-	360	200	H
4	1.65584	44.85	PKFH	24.9	-24	45.75	-	-	-	-	360	200	V
	1.65817	30.3	VA1T	24.9	-24	31.2	-	-	-	-	360	200	V
2	* 9.04521	34.75	PKFH	38.6	-23.8	49.55	-	-	74	-24.45	360	200	H
	* 9.04465	20.66	VA1T	38.6	-23.8	35.46	54	-18.54	-	-	360	200	H
3	17.11805	31.96	PKFH	43.1	-16.8	58.26	-	-	-	-	360	102	H
	17.1191	17.34	VA1T	43.1	-16.8	43.64	-	-	-	-	360	102	H
5	* 4.70207	39.95	PKFH	32.7	-30.4	42.25	-	-	74	-31.75	360	102	V
	* 4.70396	26.07	VA1T	32.7	-30.3	28.47	54	-25.53	-	-	360	102	V
6	13.64715	30.68	PKFH	43.1	-18.5	55.28	-	-	-	-	360	200	V

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

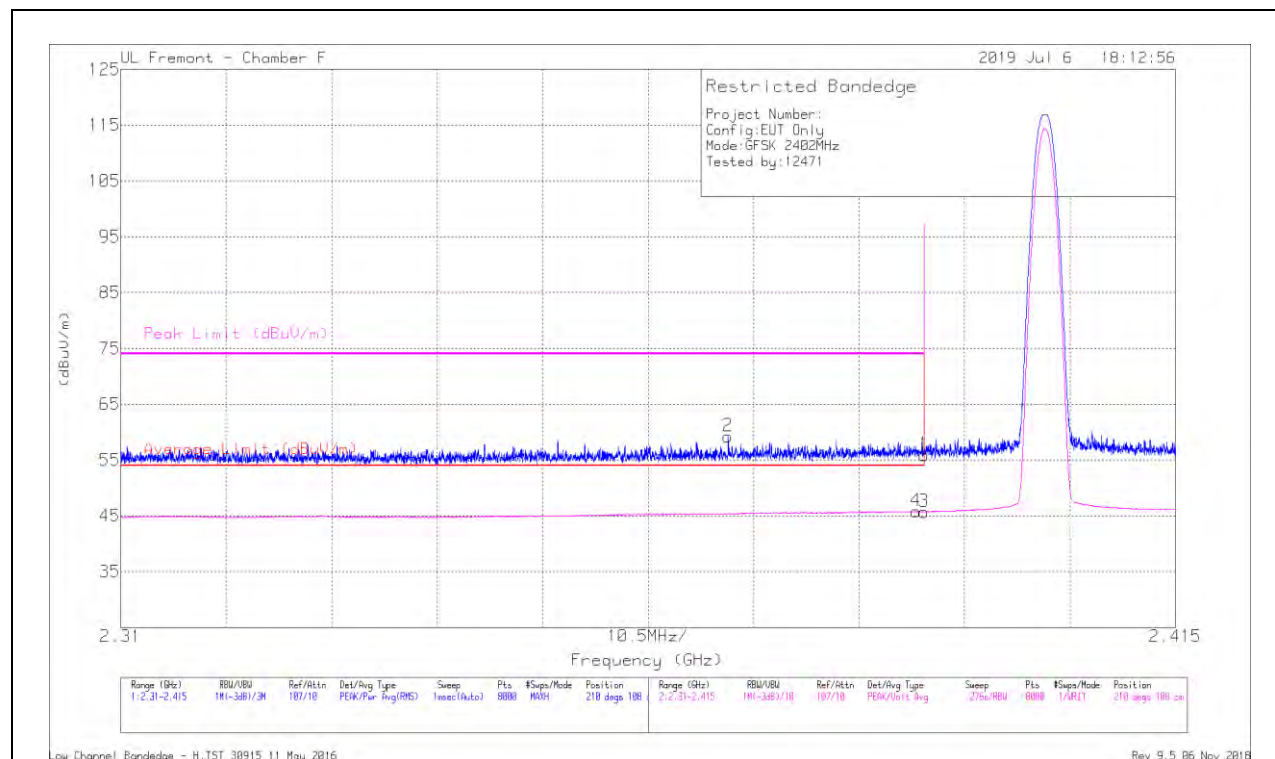
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.2. BEAMFORMING, TRANSMITTER ABOVE 1 GHz

9.2.1. HIGH POWER BASIC DATA RATE GFSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



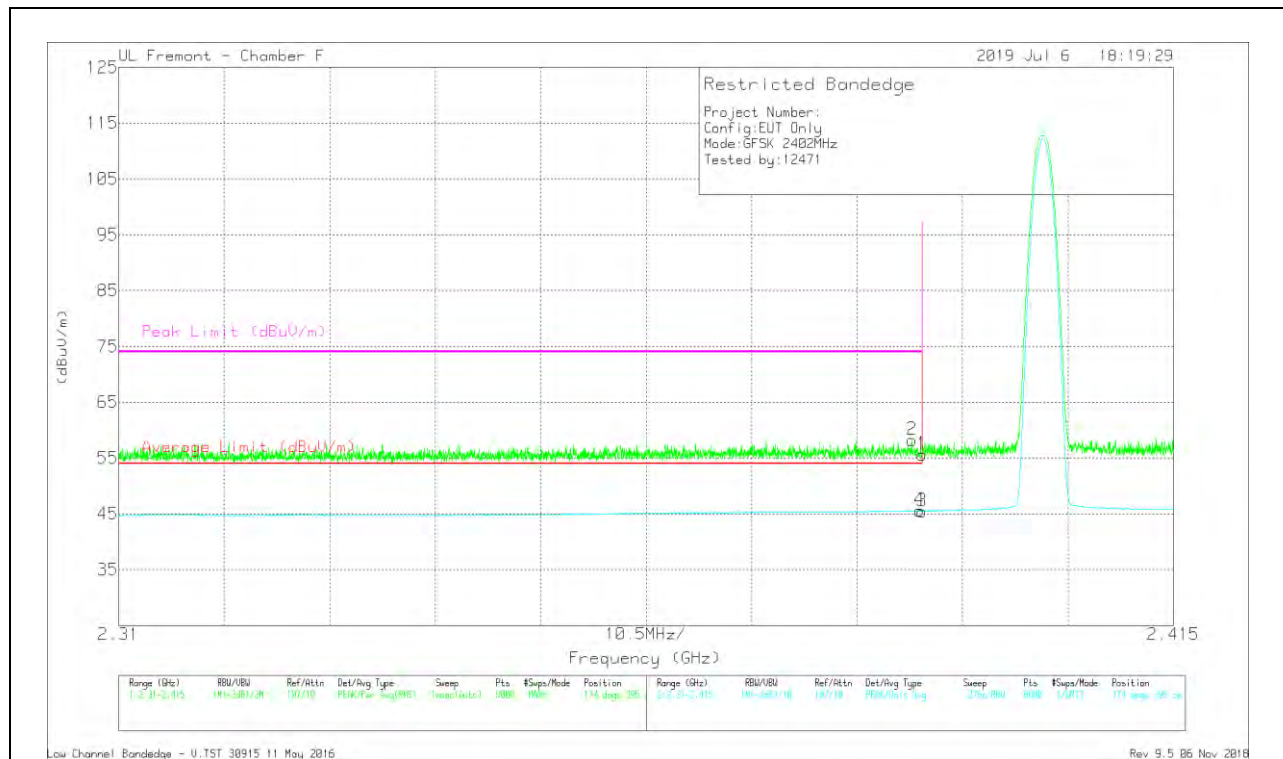
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.36	Pk	32	-14.5	55.86	-	-	74	-18.14	210	108	H
2	* 2.37	41.85	Pk	31.9	-14.5	59.25	-	-	74	-14.75	210	108	H
3	* 2.39	28.24	VA1T	32	-14.5	45.74	54	-8.26	-	-	210	108	H
4	* 2.389	28.29	VA1T	32	-14.5	45.79	54	-8.21	-	-	210	108	H

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

Pk - Peak detector

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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.17	Pk	32	-14.5	55.67	-	-	74	-18.33	174	395	V
2	* 2.389	40.69	Pk	32	-14.5	58.19	-	-	74	-15.81	174	395	V
3	* 2.39	27.97	VA1T	32	-14.5	45.47	54	-8.53	-	-	174	395	V
4	* 2.39	28.08	VA1T	32	-14.5	45.58	54	-8.42	-	-	174	395	V

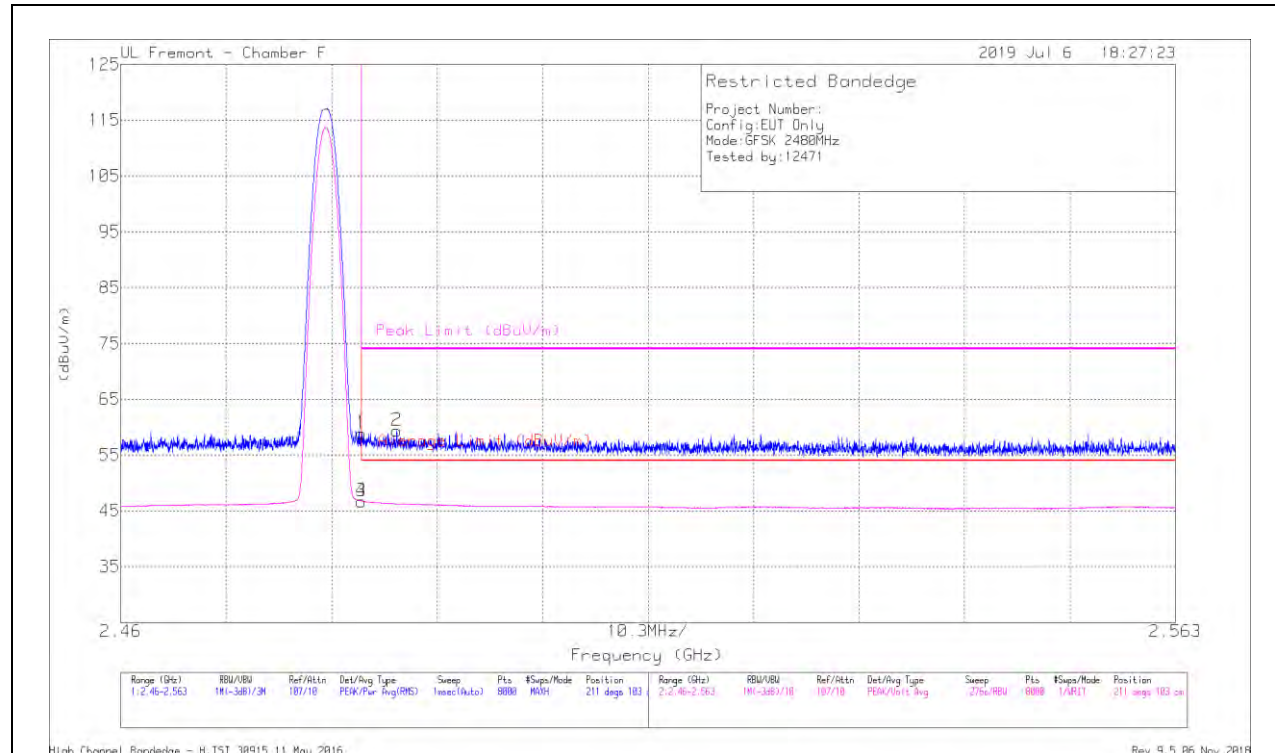
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



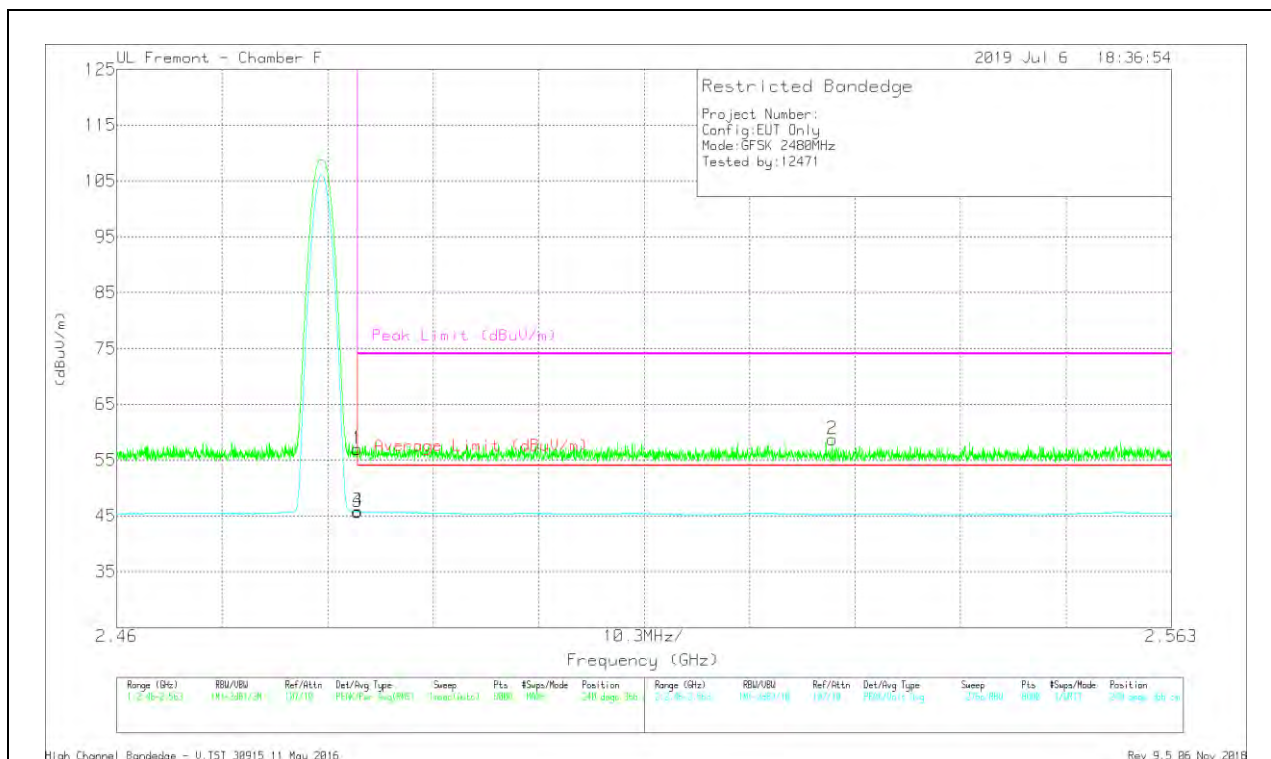
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
1	* 2.484	41.15	Pk	32.4	-14.7	58.85	-	-	74	-15.15	211	103	H
2	* 2.487	41.67	Pk	32.3	-14.6	59.37	-	-	74	-14.63	211	103	H
3	* 2.484	29.03	VA1T	32.4	-14.7	46.73	54	-7.27	-	-	211	103	H
4	* 2.484	29.05	VA1T	32.4	-14.7	46.75	54	-7.25	-	-	211	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 T345 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.33	Pk	32.4	-14.7	57.03	-	-	74	-16.97	240	366	V
2	2.53	41.13	Pk	32.4	-14.8	58.73	-	-	74	-15.27	240	366	V
3	* 2.484	28.06	VA1T	32.4	-14.7	45.76	54	-8.24	-	-	240	366	V
4	* 2.484	28.09	VA1T	32.4	-14.7	45.79	54	-8.21	-	-	240	366	V

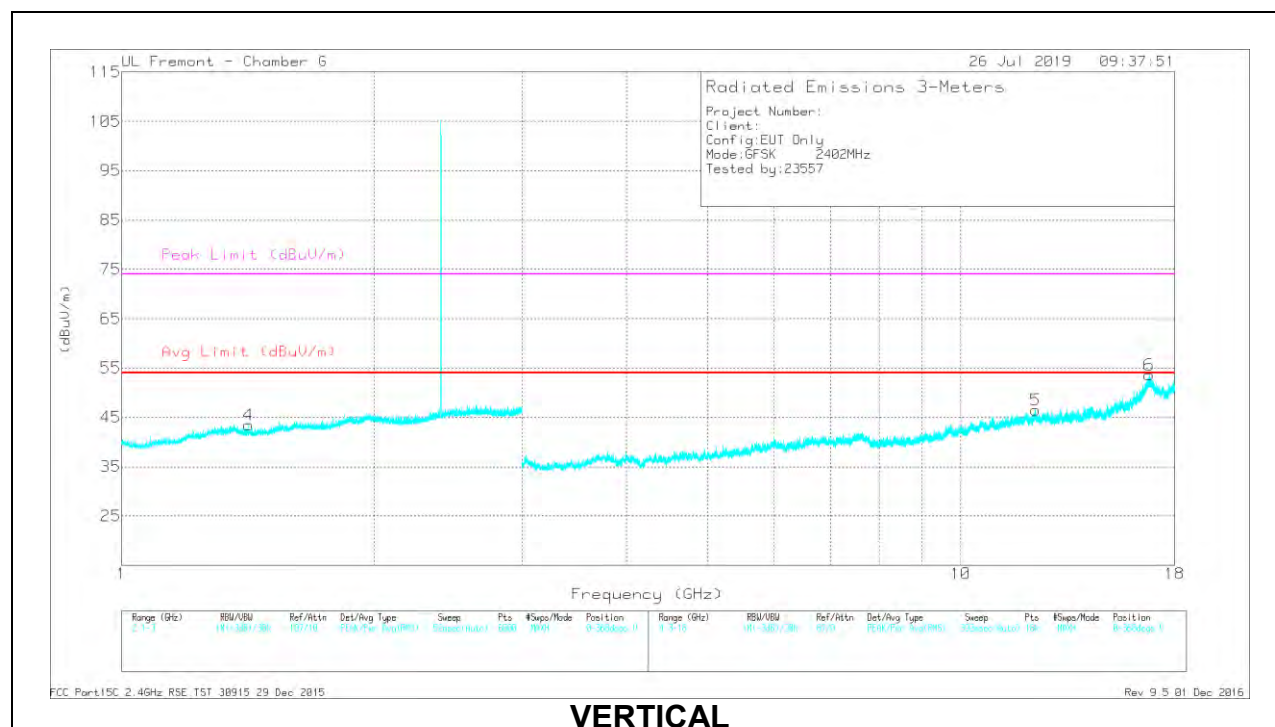
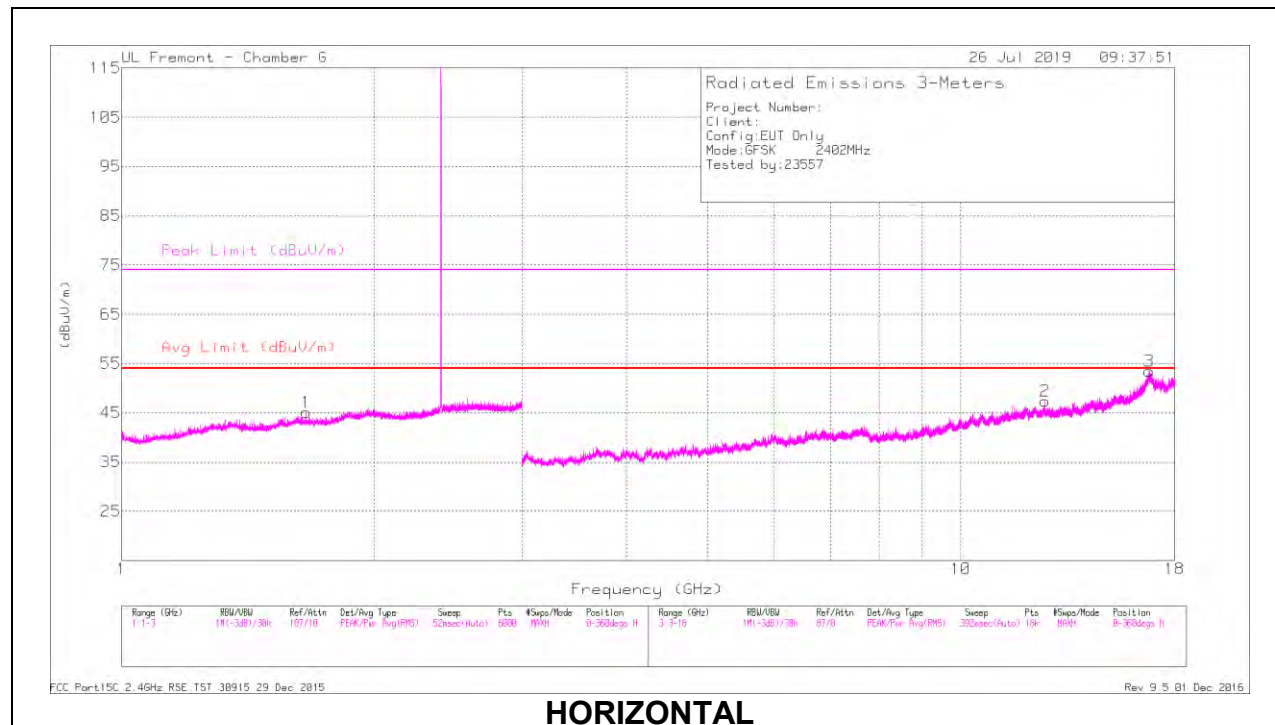
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



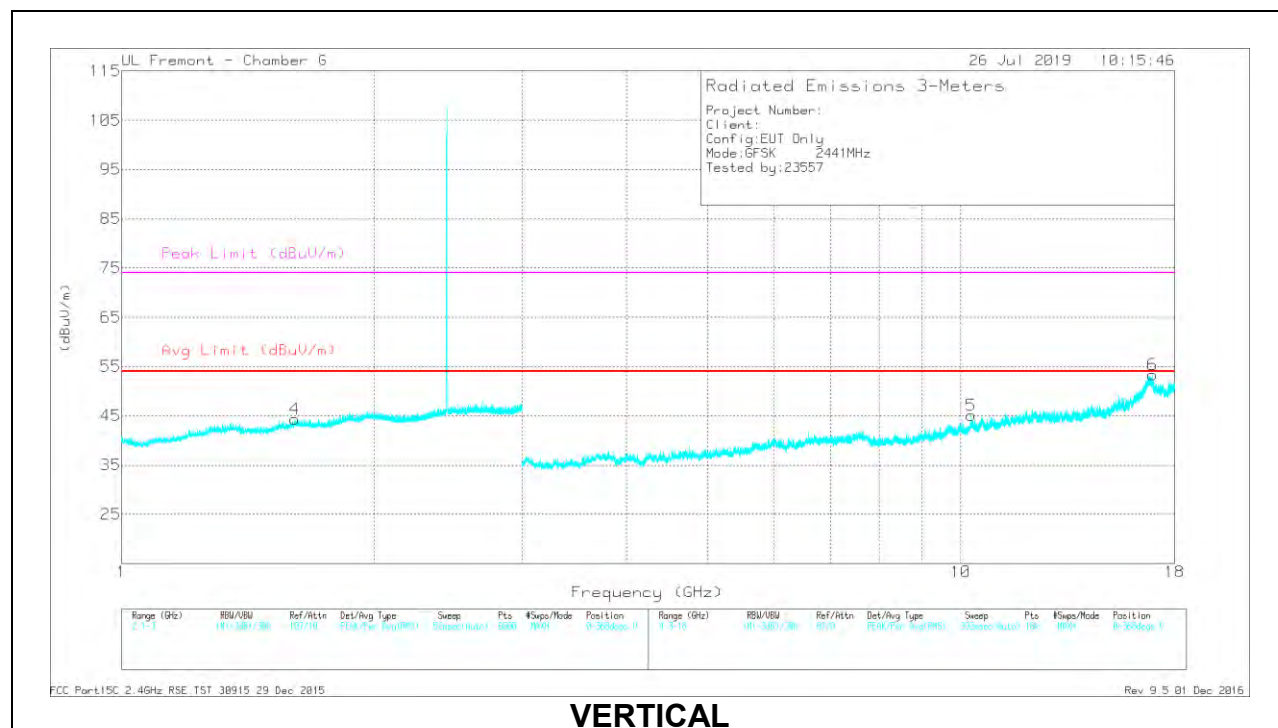
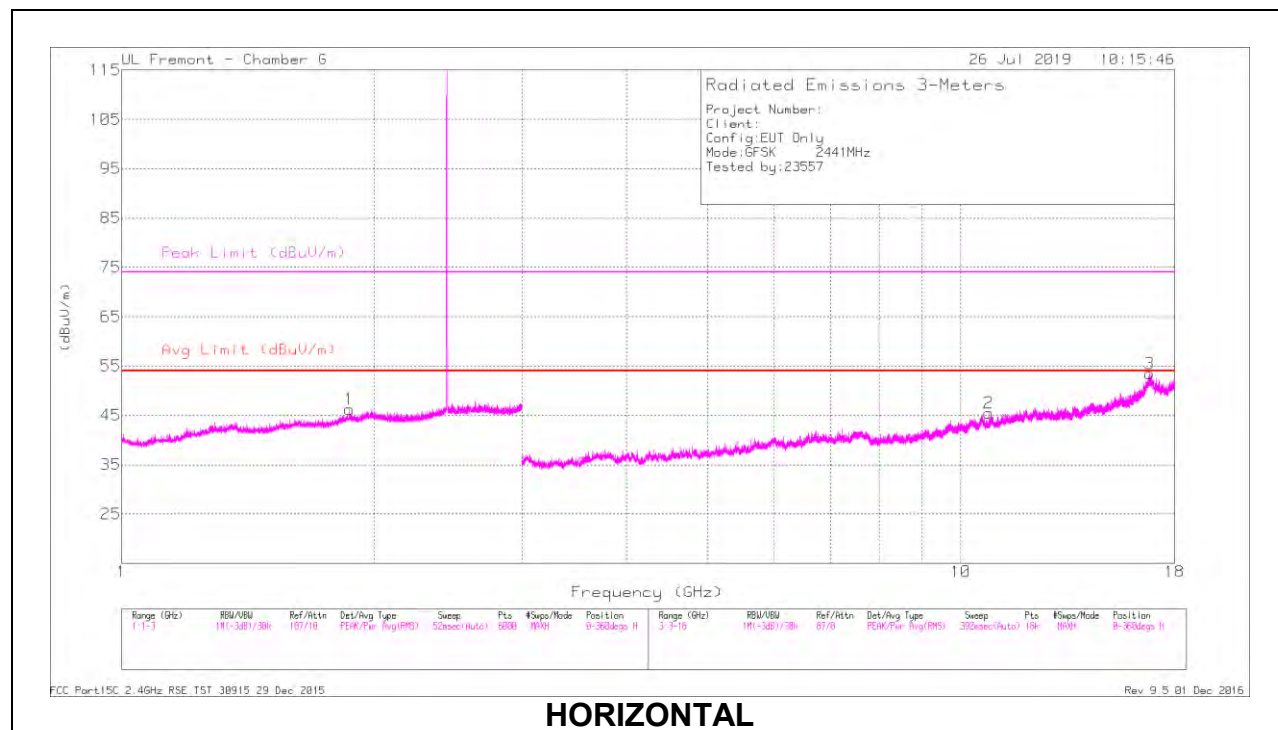
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.682	42.25	PKFH	29	-21.6	49.65	-	-	74	-24.35	263	126	H
	* 1.704	29.92	VA1T	29.3	-21.9	37.32	54	-16.68	-	-	263	126	H
4	* 1.414	42.25	PKFH	29	-22.9	48.35	-	-	74	-25.65	252	331	V
	* 1.415	30.21	VA1T	29	-22.9	36.31	54	-17.69	-	-	252	331	V
2	* 12.614	36.12	PKFH	39	-22.8	52.32	-	-	74	-21.68	230	392	H
	* 12.615	23.64	VA1T	39	-22.8	39.84	54	-14.16	-	-	230	392	H
5	* 12.293	35.45	PKFH	39	-22.4	52.05	-	-	74	-21.95	253	152	V
	* 12.291	23.7	VA1T	39	-22.3	40.4	54	-13.6	-	-	253	152	V
6	16.789	36.44	PKFH	41.8	-17.4	60.84	-	-	-	-	22	191	H
3	16.79	35	PKFH	41.8	-17.4	59.4	-	-	-	-	251	204	V

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

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

MID CHANNEL RESULTS



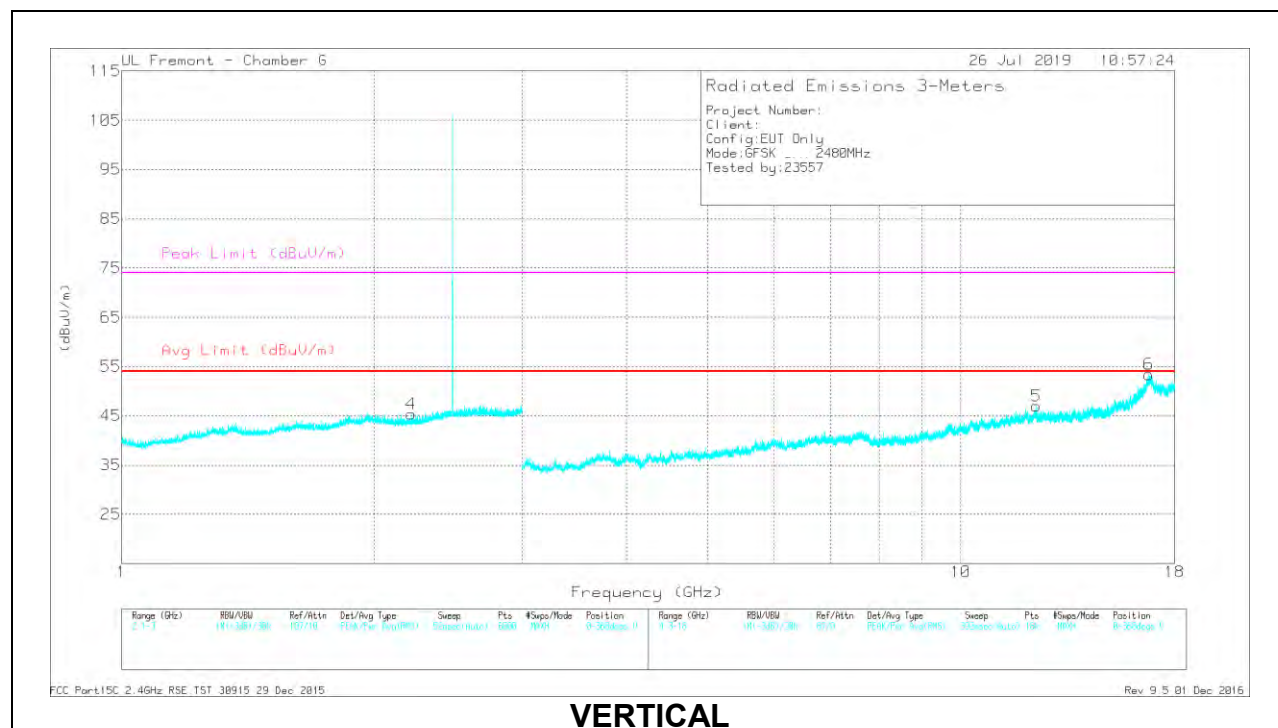
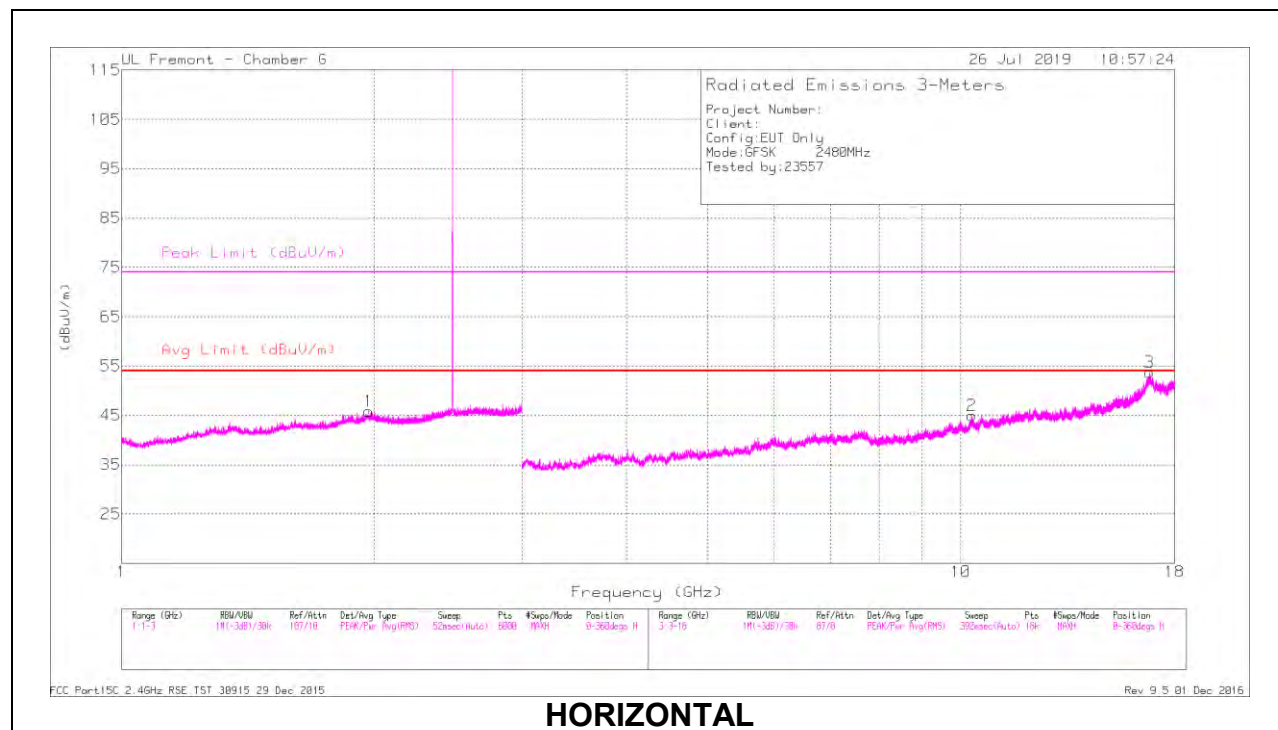
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.608	41.65	PKFH	28.8	-21.1	49.35	-	-	74	-24.65	128	249	V
	* 1.61	30.21	VA1T	28.8	-21.1	37.91	54	-16.09	-	-	128	249	V
2	* 10.802	37.56	PKFH	37.6	-24.1	51.06	-	-	74	-22.94	203	187	H
	* 10.801	24.18	VA1T	37.6	-24.2	37.58	54	-16.42	-	-	203	187	H
1	1.868	41.57	PKFH	31.5	-22.6	50.47	-	-	-	-	219	115	H
5	10.296	36.34	PKFH	37.5	-23.6	50.24	-	-	-	-	188	195	V
3	16.803	35.11	PKFH	41.8	-17.6	59.31	-	-	-	-	12	339	H
6	16.944	35.23	PKFH	41.7	-18	58.93	-	-	-	-	270	171	V

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

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

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.216	41.89	PKFH	31.2	-22.5	50.59	-	-	74	-23.41	262	210	V
	* 2.216	29.45	VA1T	31.2	-22.5	38.15	54	-15.85	-	-	262	210	V
5	* 12.309	34.79	PKFH	39	-22.8	50.99	-	-	74	-23.01	165	322	V
	* 12.311	23.31	VA1T	39	-22.8	39.51	54	-14.49	-	-	165	322	V
1	1.969	41.28	PKFH	32	-22.6	50.68	-	-	-	-	161	117	H
2	10.325	36.4	PKFH	37.6	-23.6	50.4	-	-	-	-	129	202	H
6	16.787	35.2	PKFH	41.8	-17.4	59.6	-	-	-	-	105	244	V
3	16.798	35.4	PKFH	41.8	-17.5	59.7	-	-	-	-	339	364	H

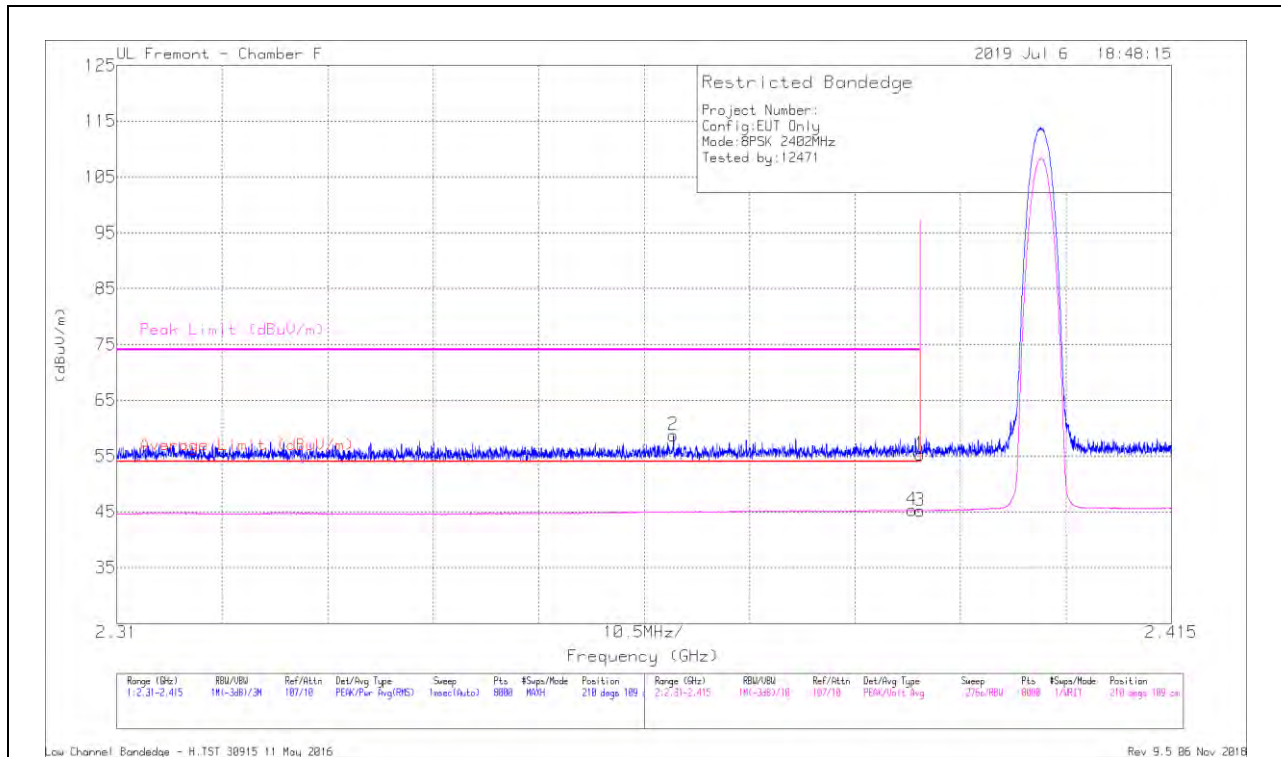
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

9.2.2. HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



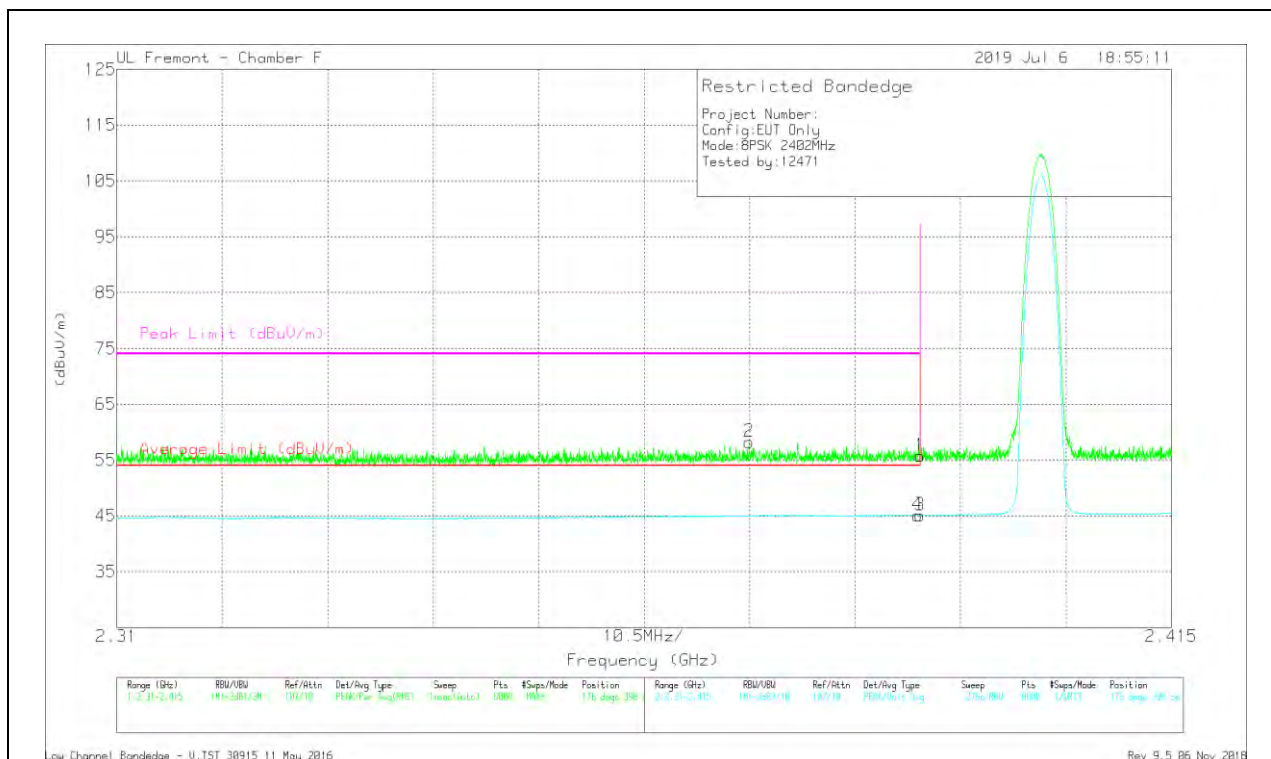
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.81	Pk	32	-14.5	55.31	-	-	74	-18.69	210	109	H
2	* 2.365	41.29	Pk	31.8	-14.4	58.69	-	-	74	-15.31	210	109	H
3	* 2.39	27.71	VA1T	32	-14.5	45.21	54	-8.79	-	-	210	109	H
4	* 2.389	27.79	VA1T	32	-14.5	45.29	54	-8.71	-	-	210	109	H

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

Pk - Peak detector

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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.29	Pk	32	-14.5	55.79	-	-	74	-18.21	176	398	V
2	* 2.373	40.74	Pk	31.9	-14.4	58.24	-	-	74	-15.76	176	398	V
3	* 2.39	27.54	VA1T	32	-14.5	45.04	54	-8.96	-	-	176	398	V
4	* 2.39	27.61	VA1T	32	-14.5	45.11	54	-8.89	-	-	176	398	V

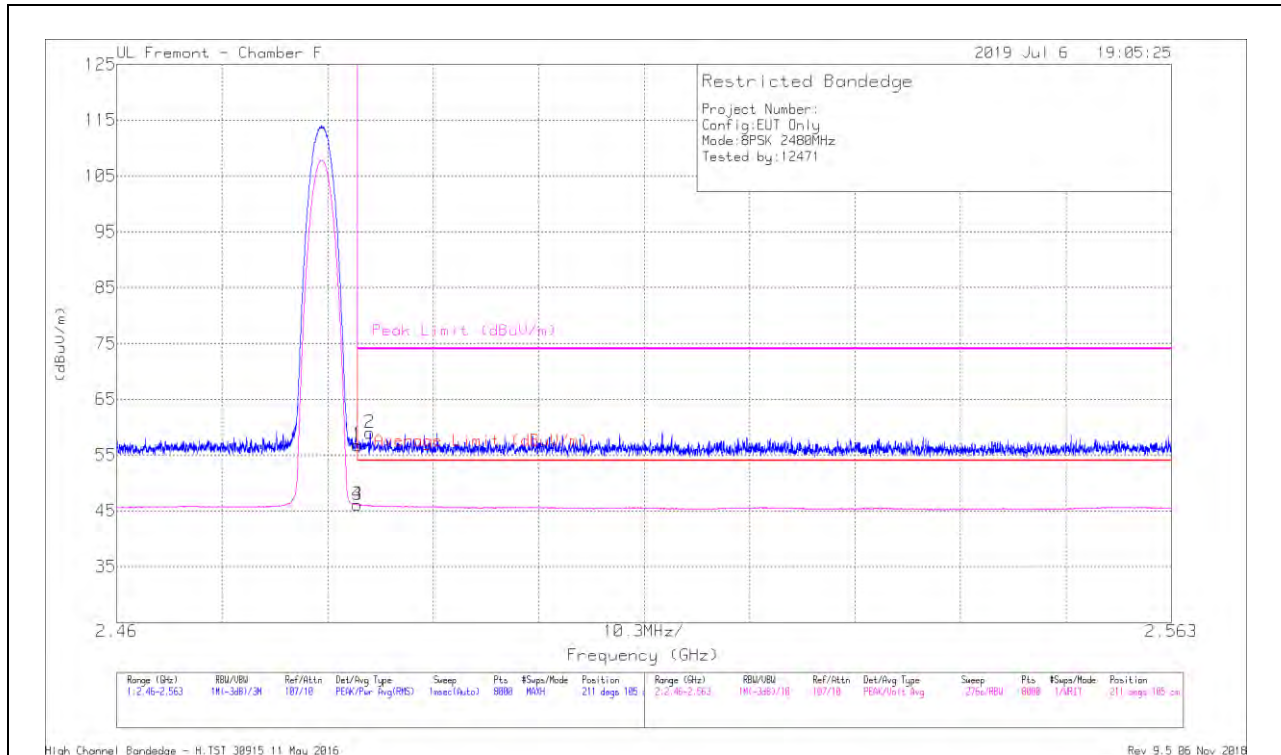
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



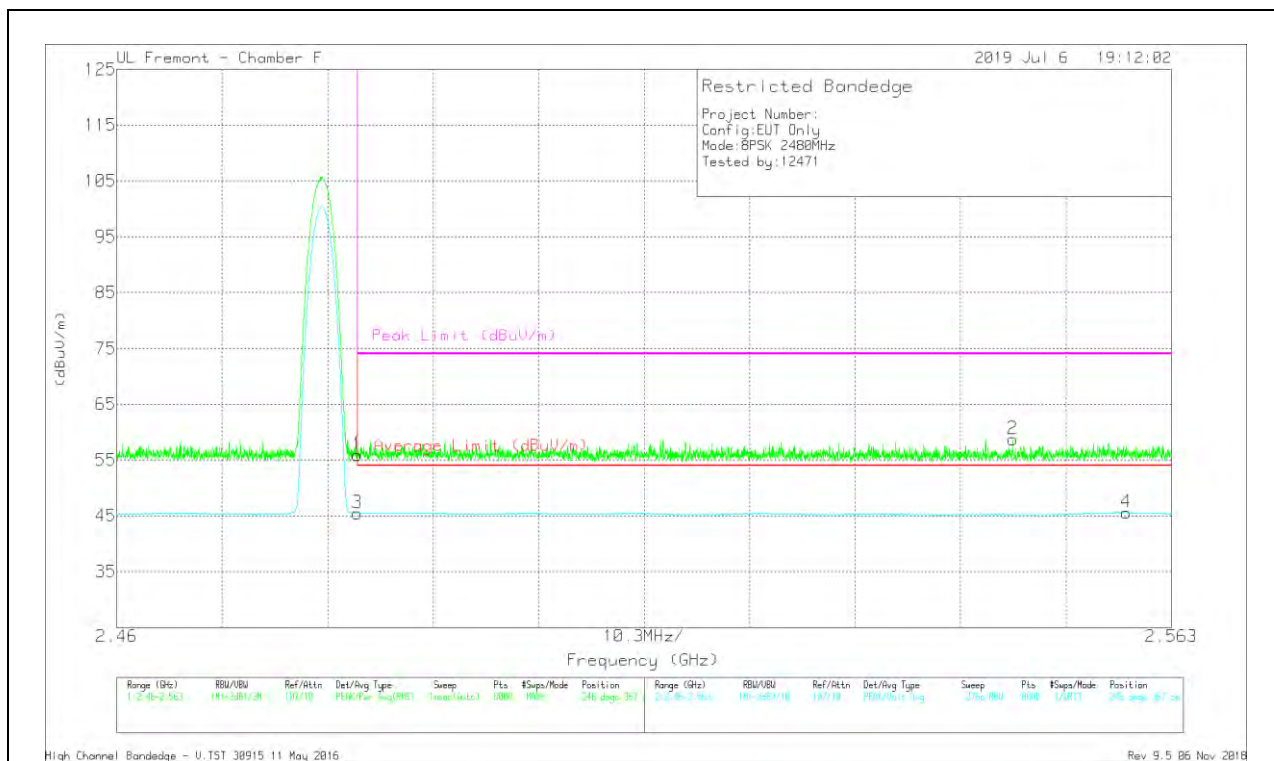
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
1	* 2.484	39.05	Pk	32.4	-14.7	56.75	-	-	74	-17.25	211	105	H
2	* 2.485	41.19	Pk	32.4	-14.6	58.99	-	-	74	-15.01	211	105	H
3	* 2.484	28.37	VA1T	32.4	-14.7	46.07	54	-7.93	-	-	211	105	H
4	* 2.484	28.38	VA1T	32.4	-14.7	46.08	54	-7.92	-	-	211	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/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.16	Pk	32.4	-14.7	55.86	-	-	74	-18.14	246	367	V
2	2.548	41.09	Pk	32.3	-14.7	58.69	-	-	74	-15.31	246	367	V
3	* 2.484	27.72	VA1T	32.4	-14.7	45.42	54	-8.58	-	-	246	367	V
4	2.559	27.69	VA1T	32.4	-14.5	45.59	54	-8.41	-	-	246	367	V

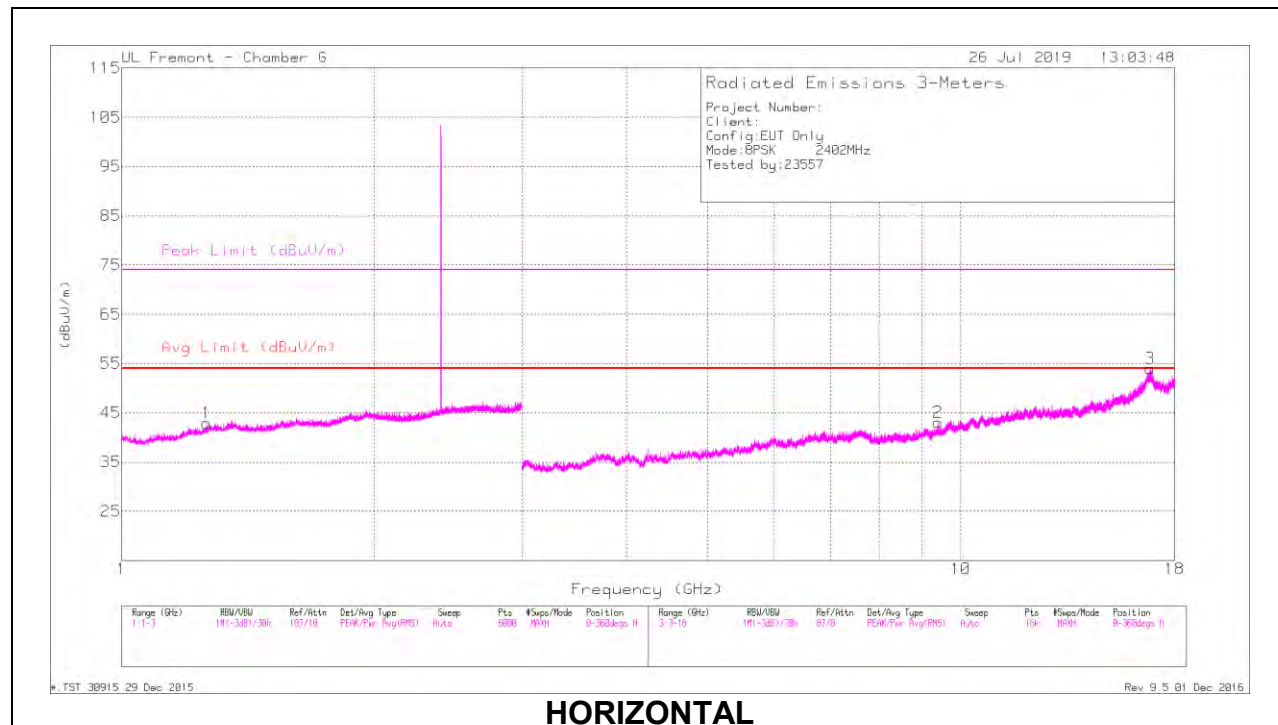
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

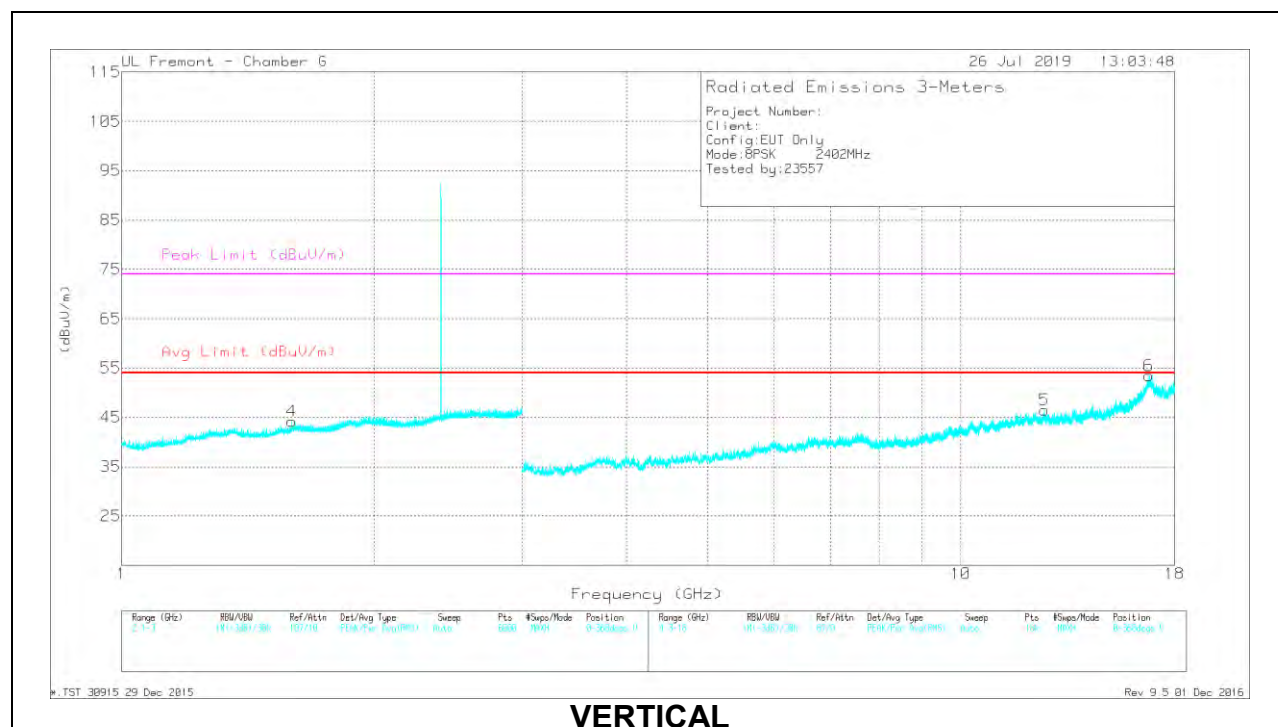
VA1T - FHSS: Linear Voltage Average $VB=1/Ton$ where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

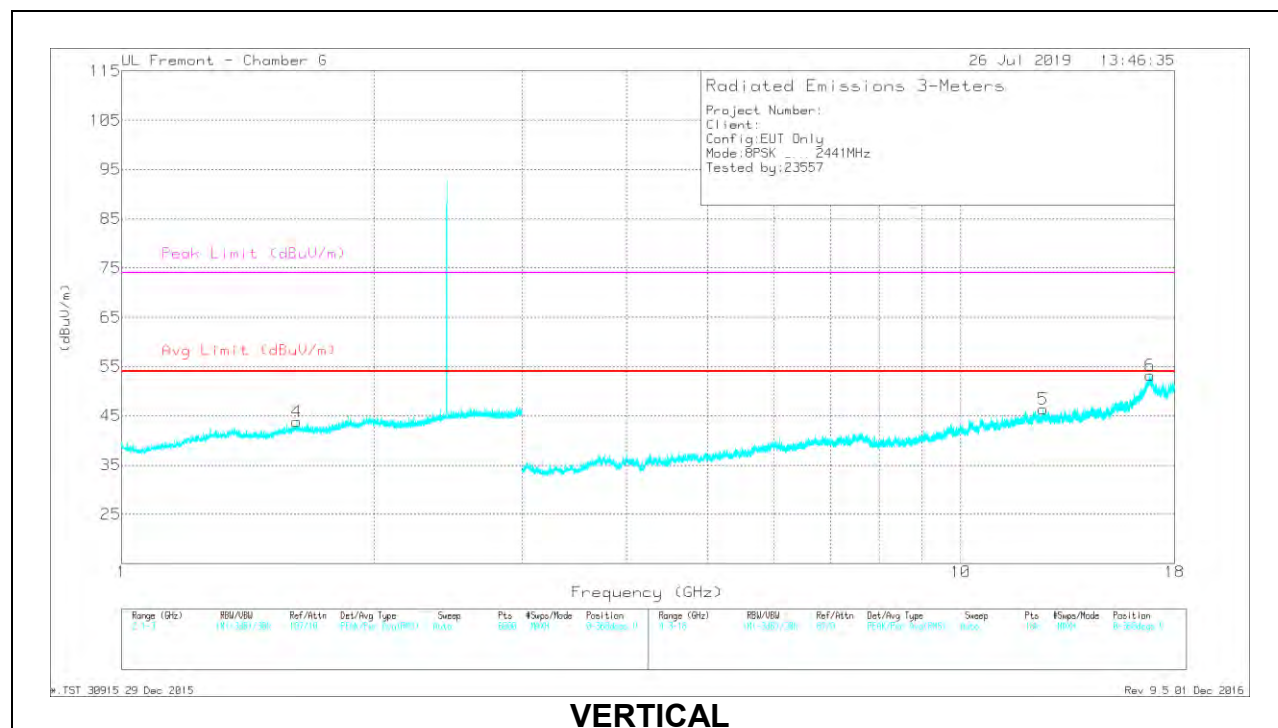
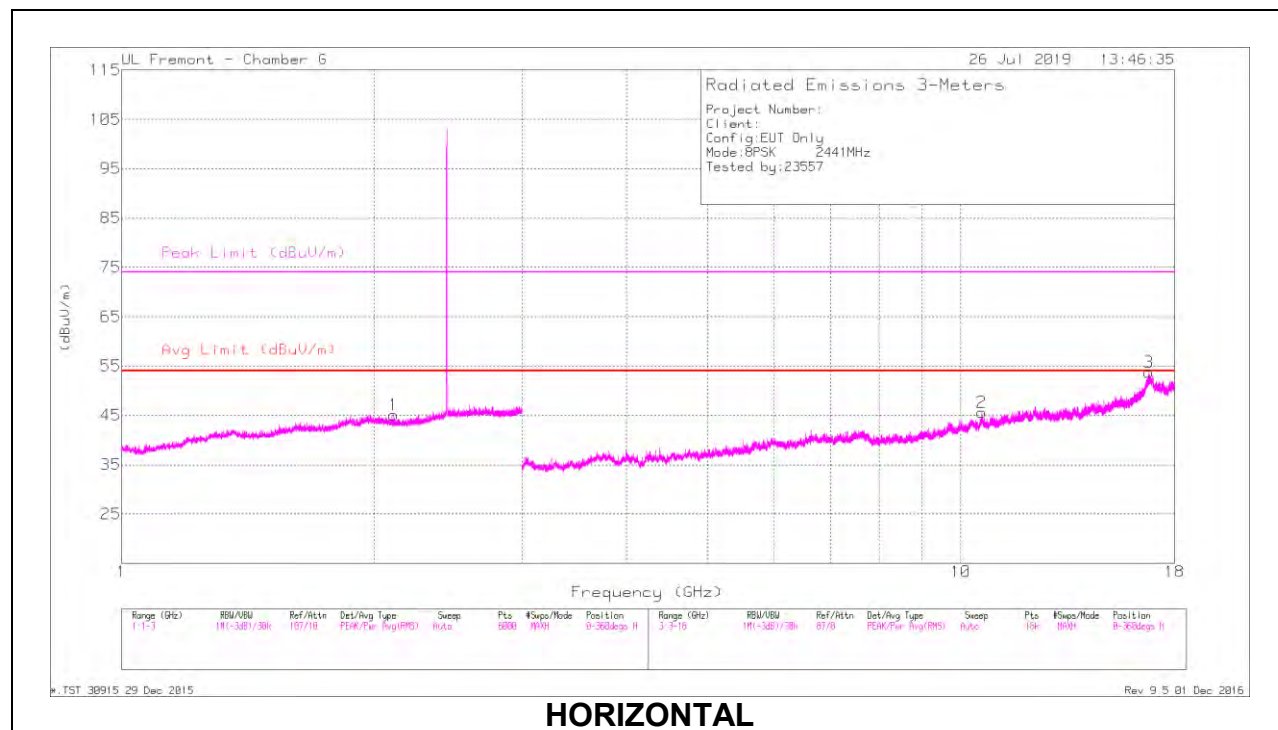
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.262	41.38	PKFH	29.2	-23.6	46.98	-	-	74	-27.02	170	142	H
	* 1.262	29.9	VA1T	29.2	-23.7	35.4	54	-18.6	-	-	170	142	H
4	* 1.595	41.45	PKFH	28.7	-21.3	48.85	-	-	74	-25.15	46	217	V
	* 1.596	29.95	VA1T	28.7	-21.2	37.45	54	-16.55	-	-	46	217	V
2	* 9.4	36.96	PKFH	36.6	-25.4	48.16	-	-	74	-25.84	325	218	H
	* 9.399	25.01	VA1T	36.6	-25.4	36.21	54	-17.79	-	-	325	218	H
5	* 12.596	35.16	PKFH	39	-22.8	51.36	-	-	74	-22.64	255	307	V
	* 12.594	23.43	VA1T	39.1	-22.8	39.73	54	-14.27	-	-	255	307	V
6	16.783	34.54	PKFH	41.8	-17.5	58.84	-	-	-	-	237	122	V
3	16.841	34.96	PKFH	41.8	-17.7	59.06	-	-	-	-	158	125	H

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

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

MID CHANNEL RESULTS



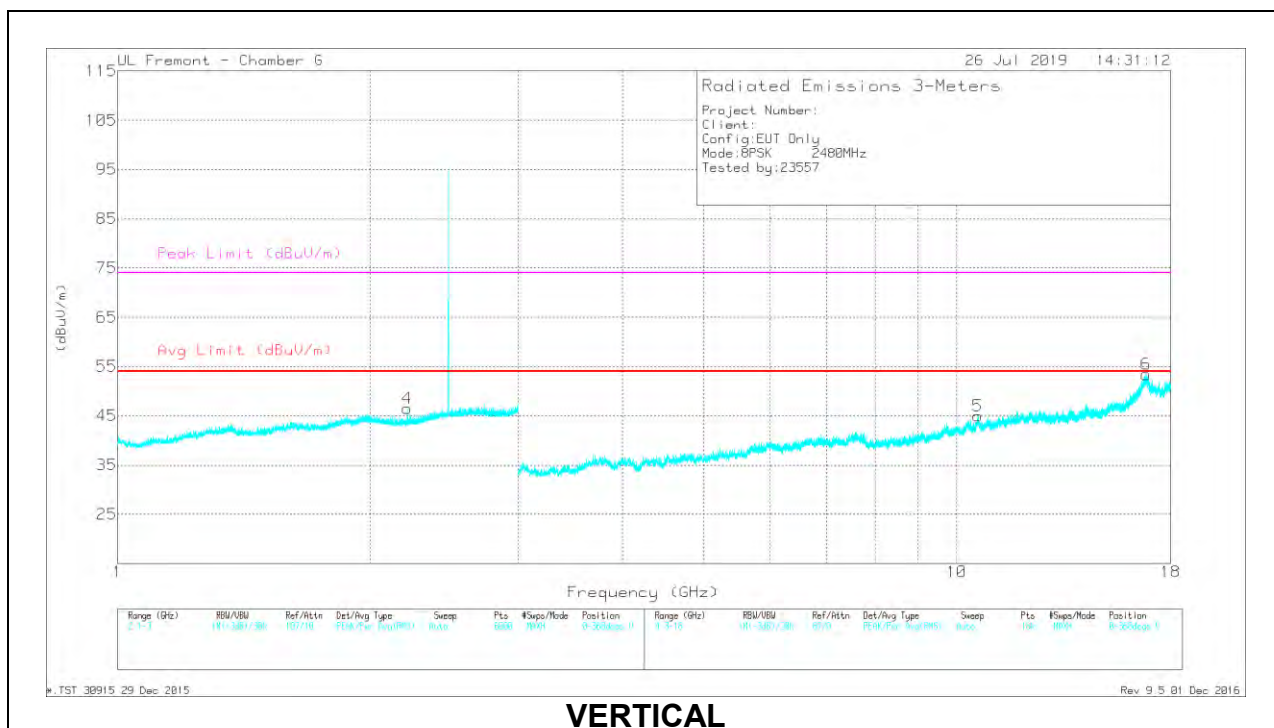
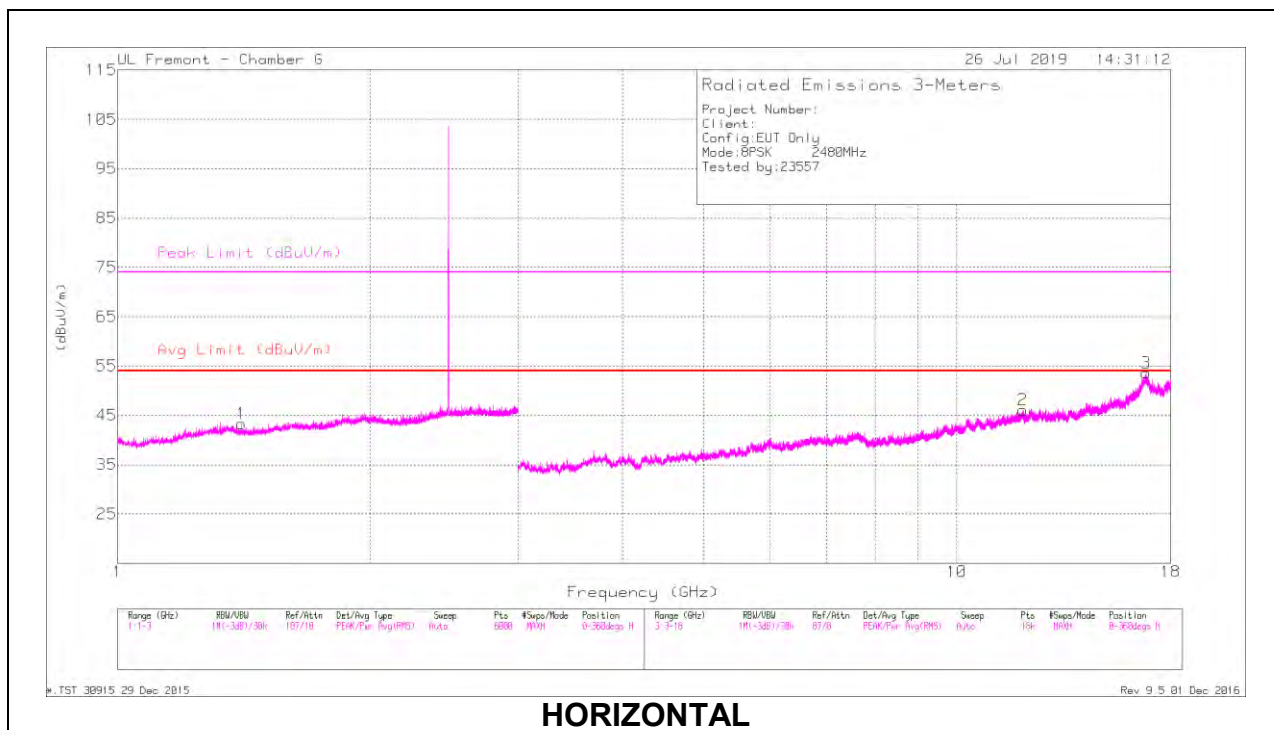
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.616	43.13	PKFH	28.8	-21.1	50.83	-	-	74	-23.17	115	221	V
	* 1.619	30.13	VA1T	28.8	-21.1	37.83	54	-16.17	-	-	115	221	V
5	* 12.543	35.02	PKFH	39.1	-22.7	51.42	-	-	74	-22.58	9	235	V
	* 12.543	23.29	VA1T	39	-22.7	39.59	54	-14.41	-	-	9	235	V
1	2.11	41.5	PKFH	31.2	-22.4	50.3	-	-	-	-	152	113	H
2	10.595	35.15	PKFH	37.6	-23.1	49.65	-	-	-	-	226	263	H
3	16.773	35.57	PKFH	41.8	-17.8	59.57	-	-	-	-	205	382	H
6	16.824	35.3	PKFH	41.8	-18.1	59	-	-	-	-	161	388	V

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

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 T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.404	42.16	PKFH	29	-22.9	48.26	-	-	74	-25.74	208	304	H
	* 1.405	30.38	VA1T	29	-22.9	36.48	54	-17.52	-	-	208	304	H
4	* 2.213	40.16	PKFH	31.2	-22.4	48.96	-	-	74	-25.04	122	105	V
	* 2.214	28.85	VA1T	31.2	-22.5	37.55	54	-16.45	-	-	122	105	V
2	* 11.996	36.2	PKFH	38.7	-22.4	52.5	-	-	74	-21.5	197	204	H
	* 11.998	23.63	VA1T	38.8	-22.4	40.03	54	-13.97	-	-	197	204	H
5	* 10.611	35.91	PKFH	37.7	-23	50.61	-	-	74	-23.39	159	190	V
	* 10.608	24.04	VA1T	37.7	-23	38.74	54	-15.26	-	-	159	190	V
3	16.838	35.09	PKFH	41.8	-17.7	59.19	-	-	-	-	274	391	H
6	16.845	33.93	PKFH	41.7	-17.6	58.03	-	-	-	-	358	400	V

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

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

9.2.3. LOW POWER BASIC DATA RATE GFSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.05	Pk	32	-14.5	55.55	-	-	74	-18.45	36	102	H
2	* 2.379	40.46	Pk	31.9	-14.4	57.96	-	-	74	-16.04	36	102	H
3	* 2.39	27.57	VA1T	32	-14.5	45.07	54	-8.93	-	-	36	102	H
4	* 2.389	27.64	VA1T	32	-14.5	45.14	54	-8.86	-	-	36	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 T345 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.74	Pk	32	-14.5	57.24	-	-	74	-16.76	168	341	V
2	* 2.374	40.88	Pk	31.9	-14.4	58.38	-	-	74	-15.62	168	341	V
3	* 2.39	27.5	VA1T	32	-14.5	45	54	-9	-	-	168	341	V
4	* 2.388	27.57	VA1T	32	-14.5	45.07	54	-8.93	-	-	168	341	V

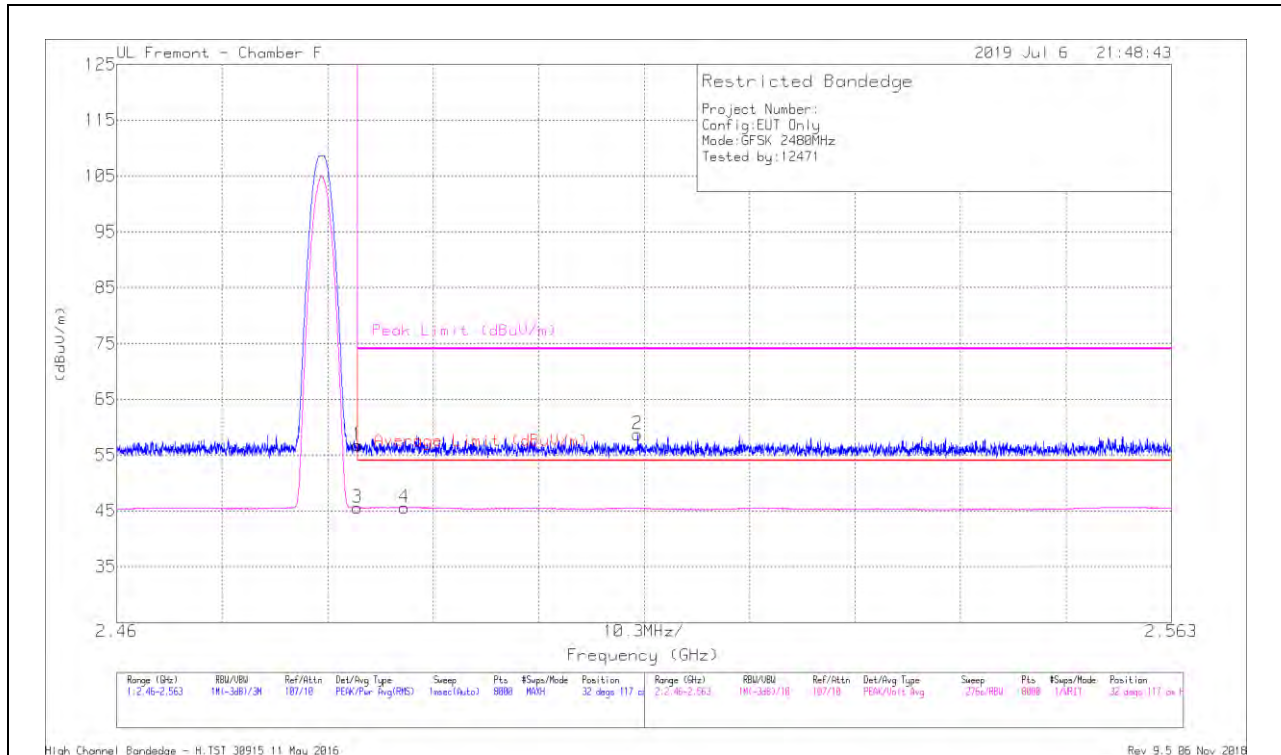
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



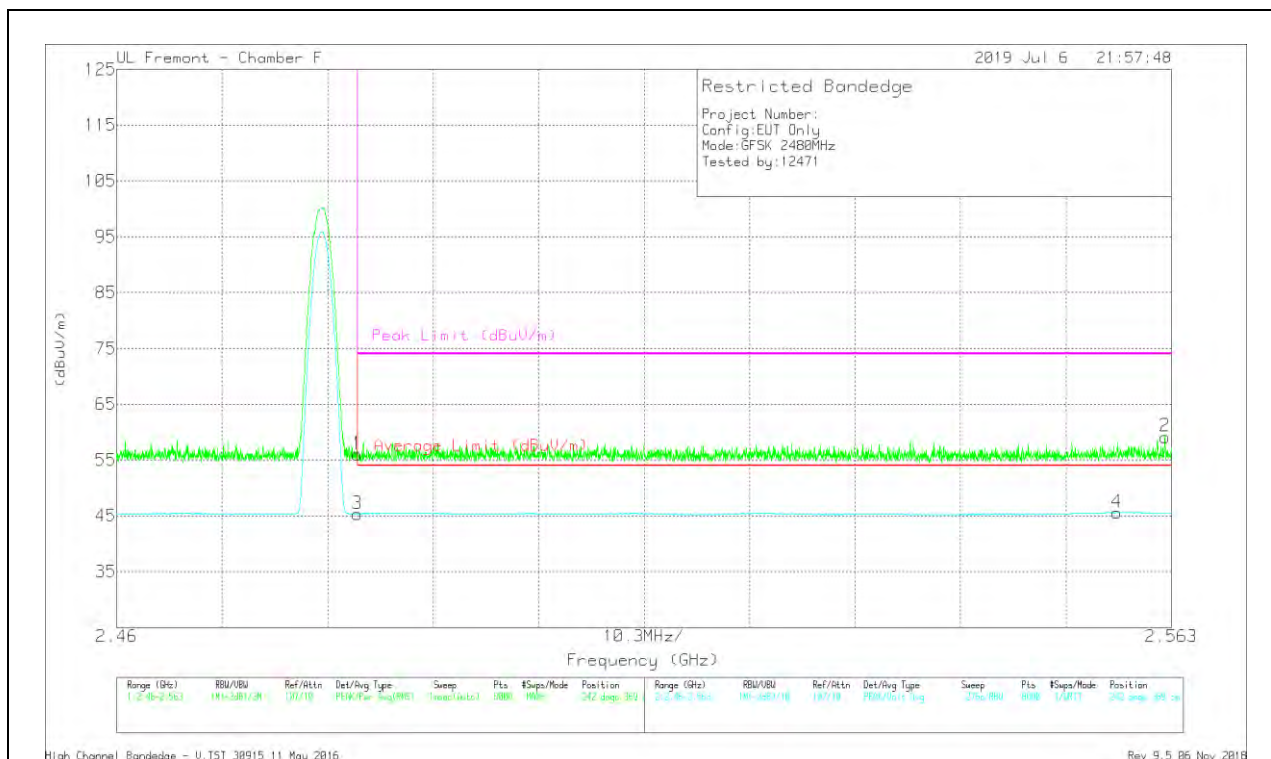
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.07	Pk	32.4	-14.7	56.77	-	-	74	-17.23	32	117	H
2	2.511	41.04	Pk	32.4	-14.7	58.74	-	-	74	-15.26	32	117	H
3	* 2.484	27.84	VA1T	32.4	-14.7	45.54	54	-8.46	-	-	32	117	H
4	* 2.488	27.8	VA1T	32.3	-14.5	45.6	54	-8.4	-	-	32	117	H

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

Pk - Peak detector

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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.36	Pk	32.4	-14.7	56.06	-	-	74	-17.94	242	369	V
2	2.562	41.37	Pk	32.4	-14.6	59.17	-	-	74	-14.83	242	369	V
3	* 2.484	27.64	VA1T	32.4	-14.7	45.34	54	-8.66	-	-	242	369	V
4	2.558	27.69	VA1T	32.4	-14.5	45.59	54	-8.41	-	-	242	369	V

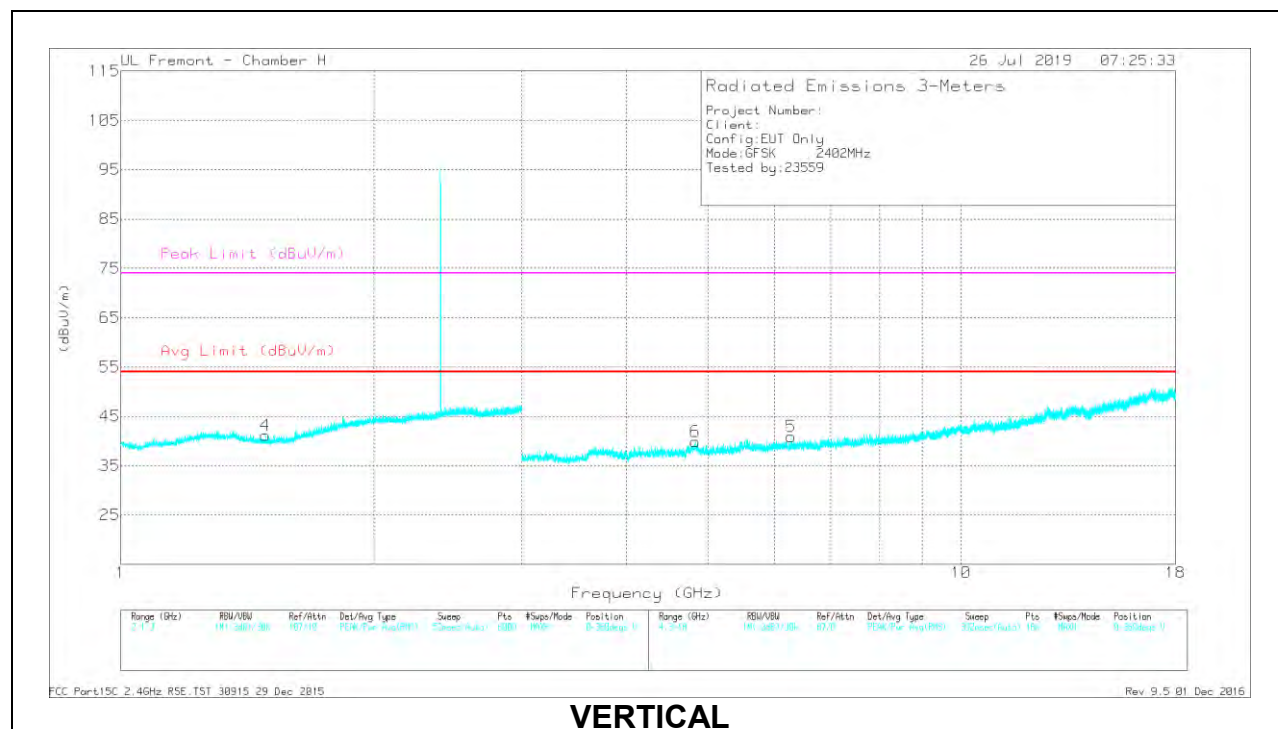
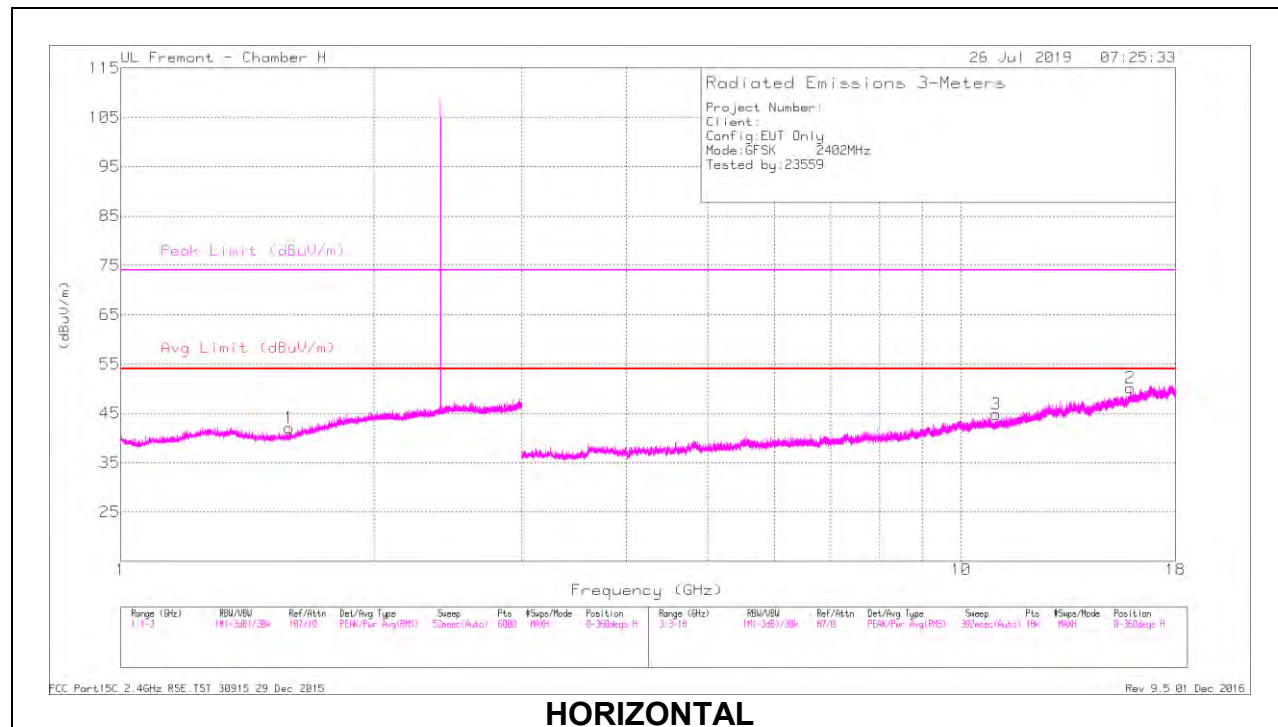
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	* 1.587	43.57	PKFH	28	-24.7	46.87	-	-	74	-27.13	10	267	H
	* 1.586	31.55	VA1T	28	-24.7	34.85	54	-19.15	-	-	10	267	H
4	* 1.486	43.87	PKFH	27.8	-24.9	46.77	-	-	74	-27.23	209	204	V
	* 1.484	31.68	VA1T	27.8	-24.9	34.58	54	-19.42	-	-	209	204	V
2	* 15.909	35.4	PKFH	41.2	-20.7	55.9	-	-	74	-18.1	96	249	H
	* 15.909	22.8	VA1T	41.2	-20.7	43.3	54	-10.7	-	-	96	249	H
3	* 11.01	35.22	PKFH	37.7	-23.4	49.52	-	-	74	-24.48	315	112	H
	* 11.012	23.4	VA1T	37.6	-23.5	37.5	54	-16.5	-	-	315	112	H
6	* 4.831	40.43	PKFH	34.4	-30.4	44.43	-	-	74	-29.57	31	306	V
	* 4.83	29.05	VA1T	34.4	-30.4	33.05	54	-20.95	-	-	31	306	V
5	6.275	38.34	PKFH	35.7	-29	45.04	-	-	-	-	173	331	V

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

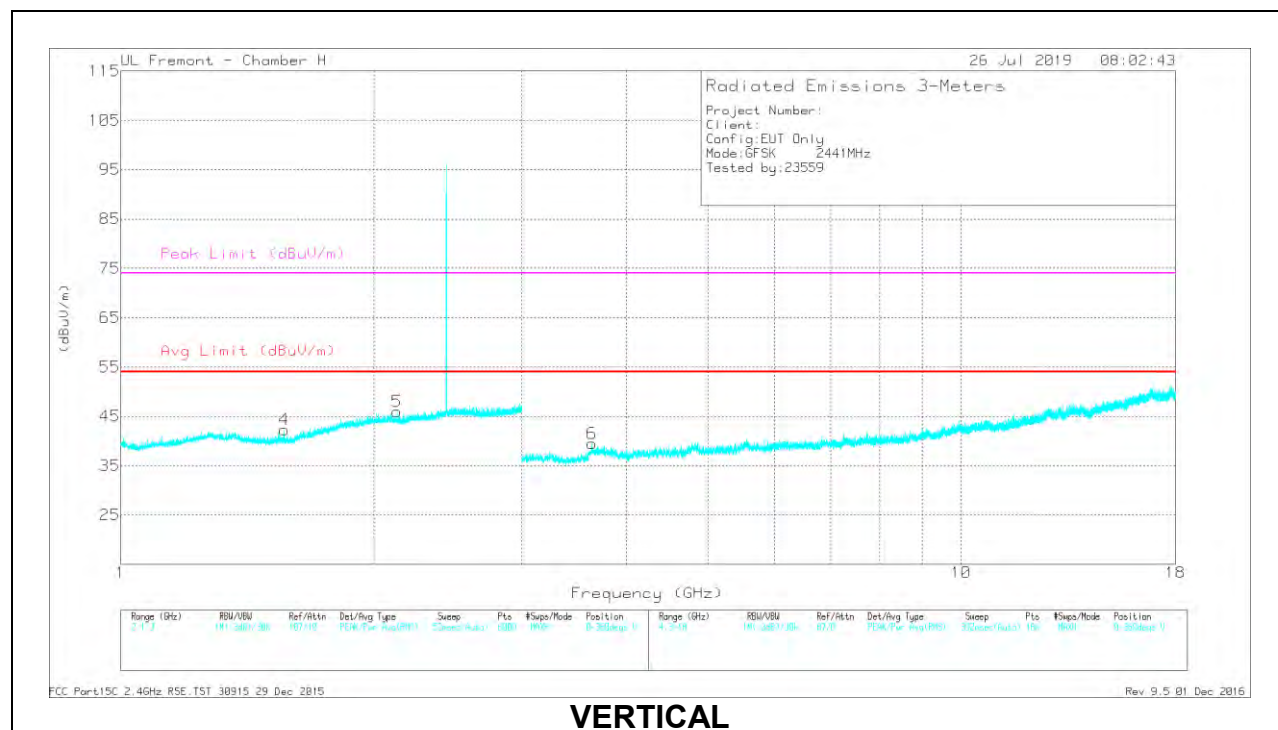
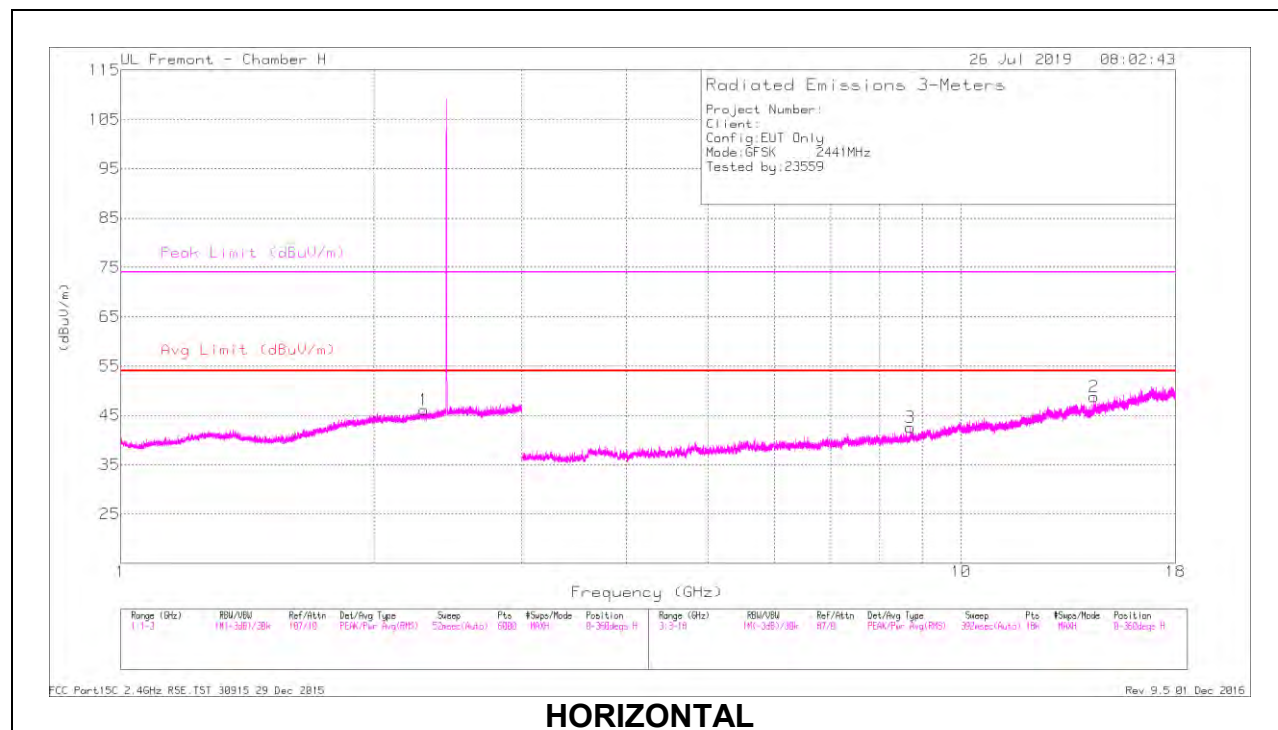
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

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MID CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.294	42.56	PKFH	31.9	-23.7	50.76	-	-	74	-23.24	323	146	H
	* 2.294	31.11	VA1T	31.9	-23.7	39.31	54	-14.69	-	-	323	146	H
4	* 1.564	43.09	PKFH	27.9	-24.7	46.29	-	-	74	-27.71	9	236	V
	* 1.563	31.49	VA1T	27.9	-24.7	34.69	54	-19.31	-	-	9	236	V
6	* 3.635	40	PKFH	33	-29.5	43.5	-	-	74	-30.5	58	127	V
	* 3.638	28.16	VA1T	33	-29.5	31.66	54	-22.34	-	-	58	127	V
5	2.13	42.87	PKFH	31.5	-23.9	50.47	-	-	-	-	39	238	V
3	8.71	35.76	PKFH	36.1	-24.7	47.16	-	-	-	-	226	253	H
2	14.396	34.47	PKFH	39.5	-21.9	52.07	-	-	-	-	136	314	H

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

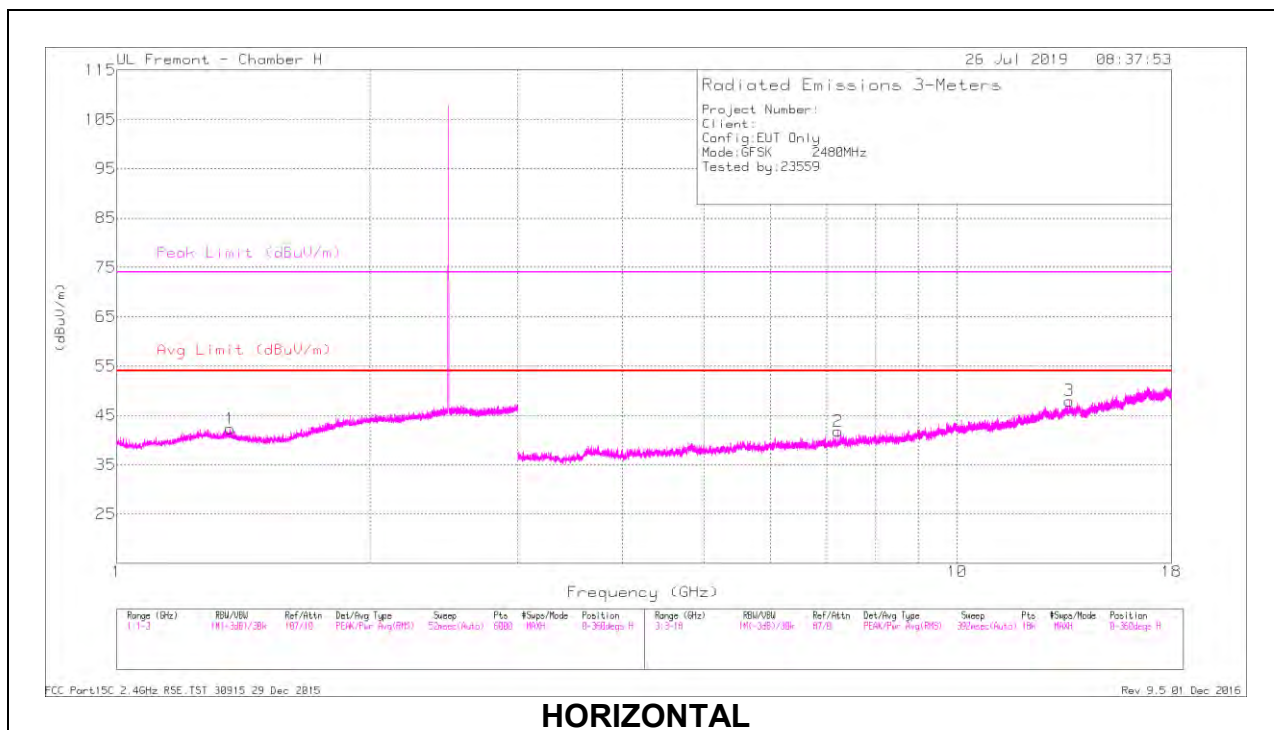
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

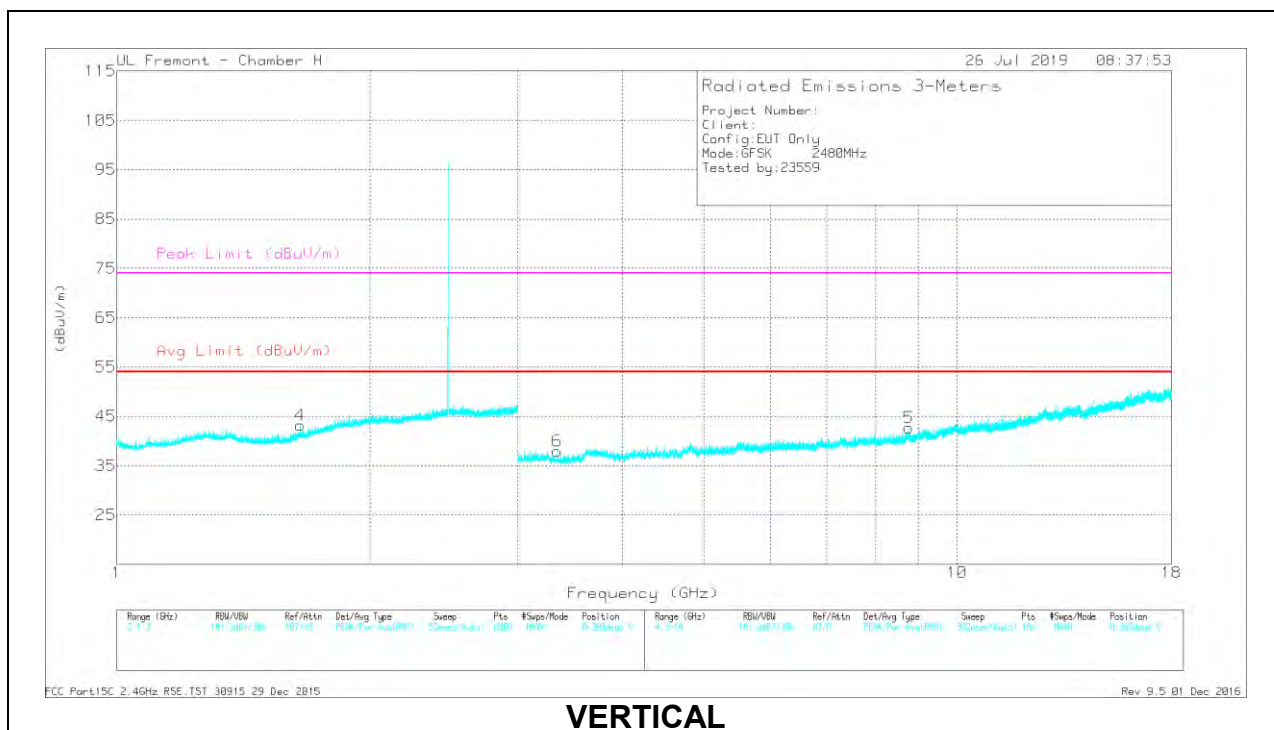
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HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	* 1.365	44.18	PKFH	29.1	-25.2	48.08	-	-	74	-25.92	43	131	H
	* 1.362	31.92	VA1T	29.1	-25.2	35.82	54	-18.18	-	-	43	131	H
4	1.656	43.37	PKFH	28.9	-24.6	47.67	-	-	-	-	173	341	V
6	3.341	41.08	PKFH	32.8	-30.6	43.28	-	-	-	-	244	153	V
2	7.221	38.4	PKFH	36	-27.9	46.5	-	-	-	-	341	271	H
5	8.764	36.33	PKFH	36.2	-25	47.53	-	-	-	-	12	203	V
3	13.599	35.21	PKFH	39.7	-21.5	53.41	-	-	-	-	126	110	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

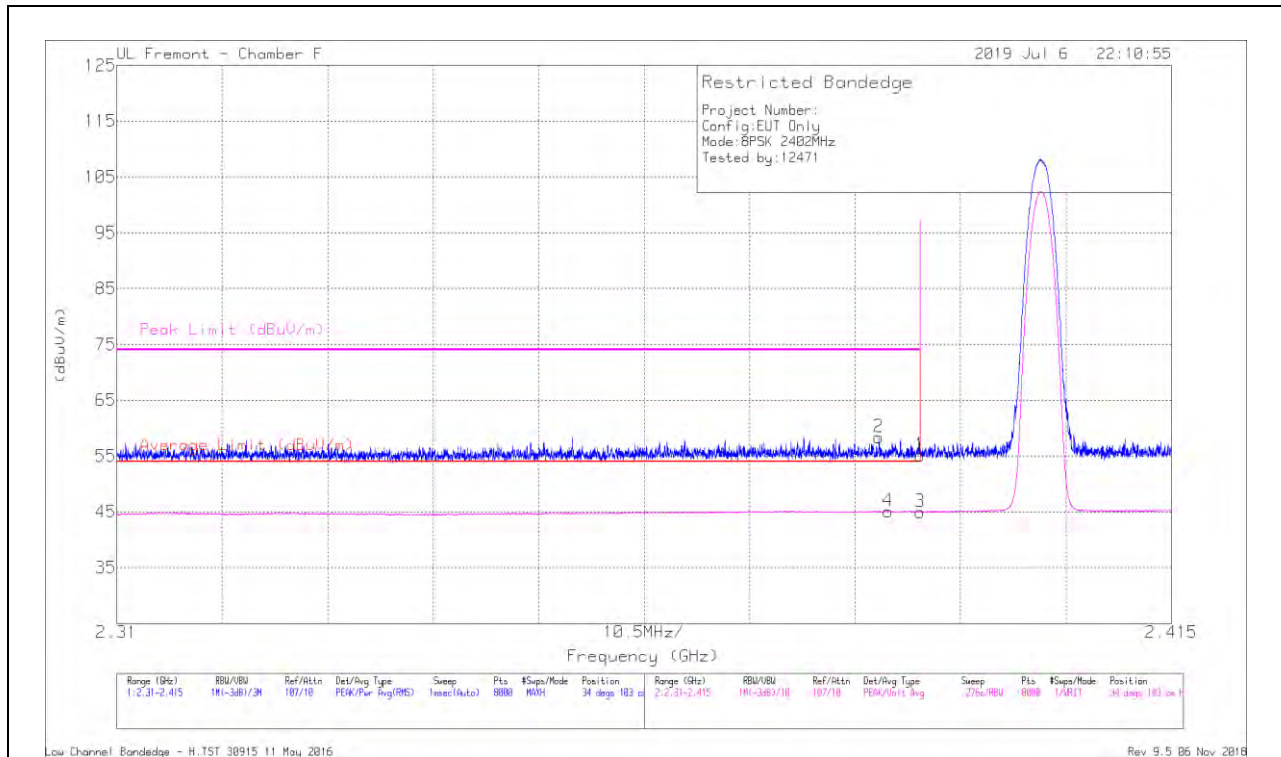
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9.2.4. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.63	Pk	32	-14.5	55.13	-	-	74	-18.87	34	103	H
2	* 2.386	40.96	Pk	31.9	-14.5	58.36	-	-	74	-15.64	34	103	H
3	* 2.39	27.5	VA1T	32	-14.5	45	54	-9	-	-	34	103	H
4	* 2.387	27.71	VA1T	31.9	-14.5	45.11	54	-8.89	-	-	34	103	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 T345 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.4	Pk	32	-14.5	55.9	-	-	74	-18.1	167	340	V
2	* 2.366	40.45	Pk	31.8	-14.4	57.85	-	-	74	-16.15	167	340	V
3	* 2.39	27.46	VA1T	32	-14.5	44.96	54	-9.04	-	-	167	340	V
4	* 2.378	27.54	VA1T	31.9	-14.4	45.04	54	-8.96	-	-	167	340	V

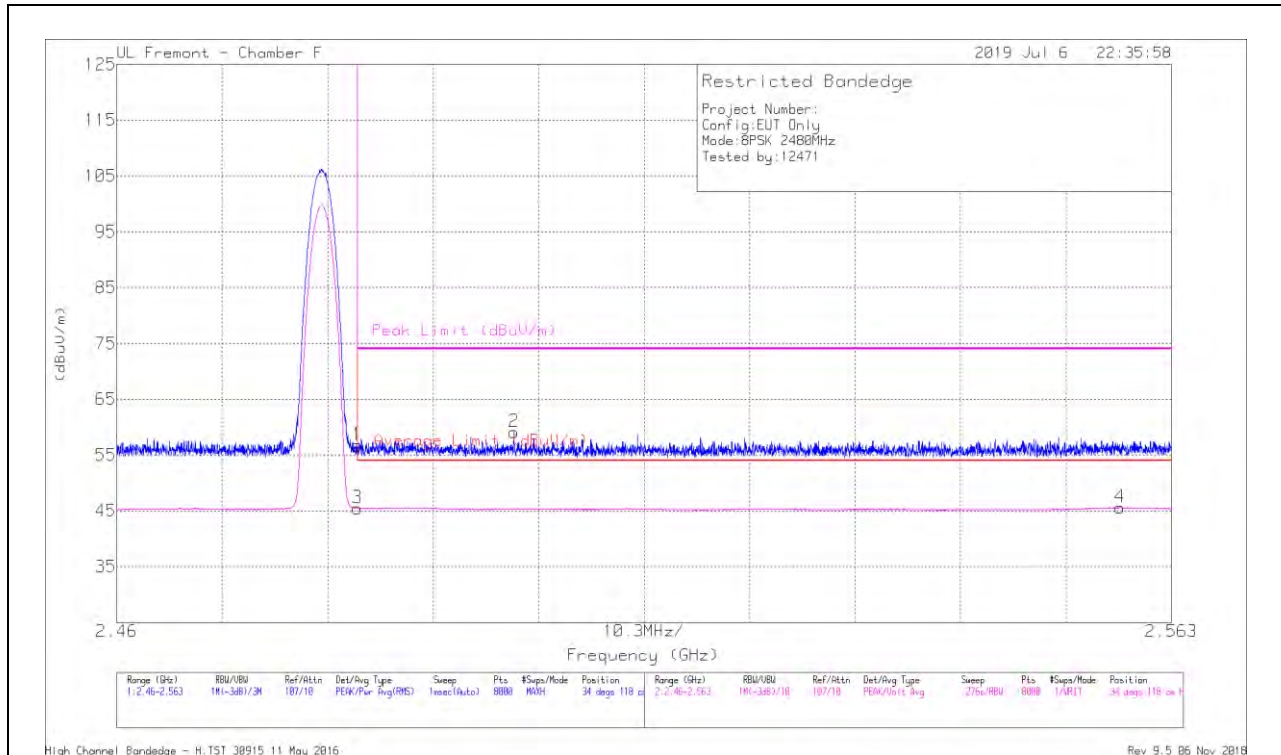
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



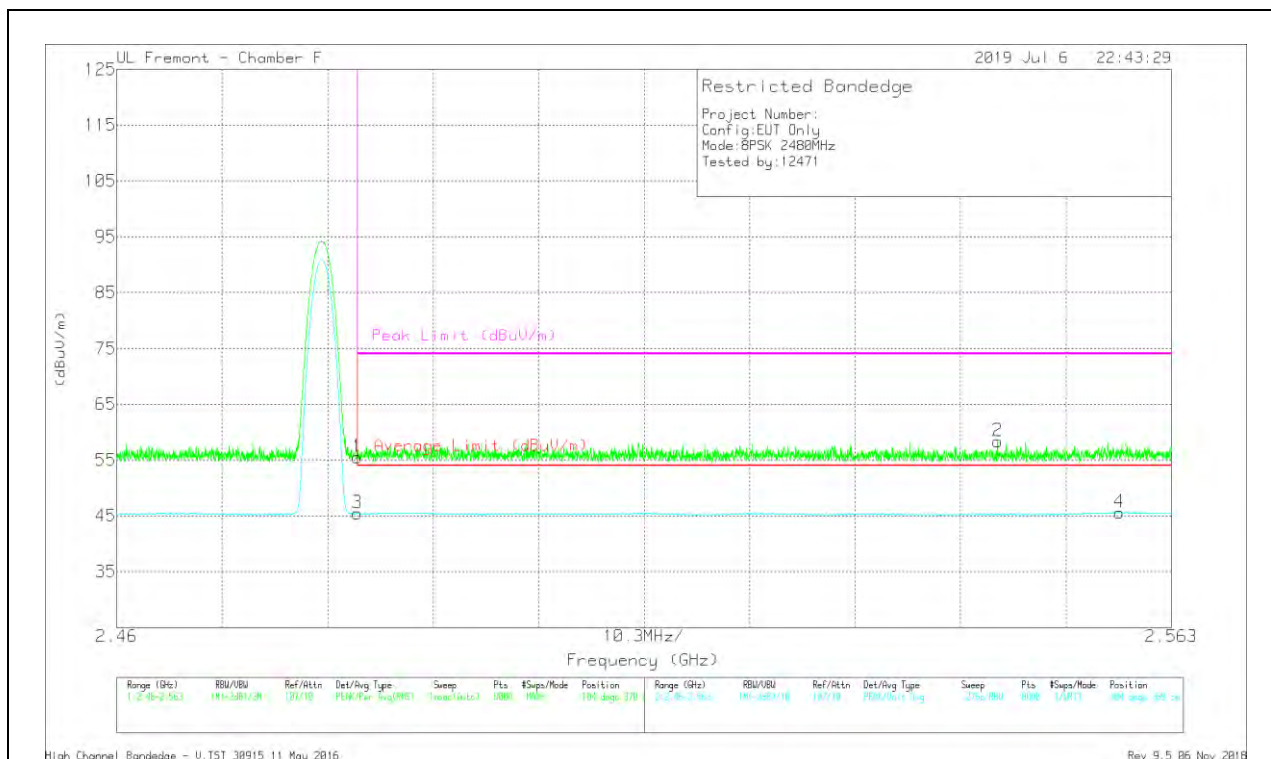
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.99	Pk	32.4	-14.7	56.69	-	-	74	-17.31	34	118	H
2	* 2.499	41.39	Pk	32.4	-14.7	59.09	-	-	74	-14.91	34	118	H
3	* 2.484	27.75	VA1T	32.4	-14.7	45.45	54	-8.55	-	-	34	118	H
4	2.558	27.65	VA1T	32.4	-14.5	45.55	54	-8.45	-	-	34	118	H

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

Pk - Peak detector

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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	37.79	Pk	32.4	-14.7	55.49	-	-	74	-18.51	104	370	V
2	2.546	40.8	Pk	32.3	-14.7	58.4	-	-	74	-15.6	104	370	V
3	* 2.484	27.7	VA1T	32.4	-14.7	45.4	54	-8.6	-	-	104	369	V
4	2.558	27.67	VA1T	32.4	-14.5	45.57	54	-8.43	-	-	104	369	V

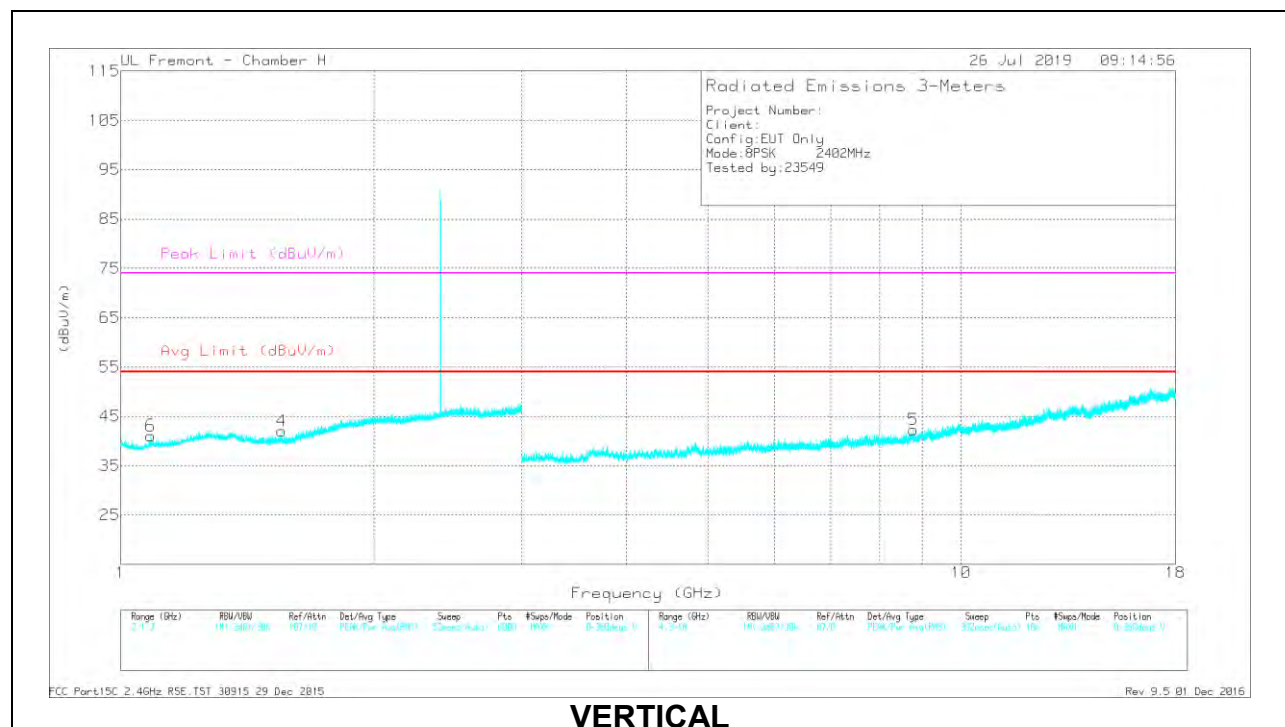
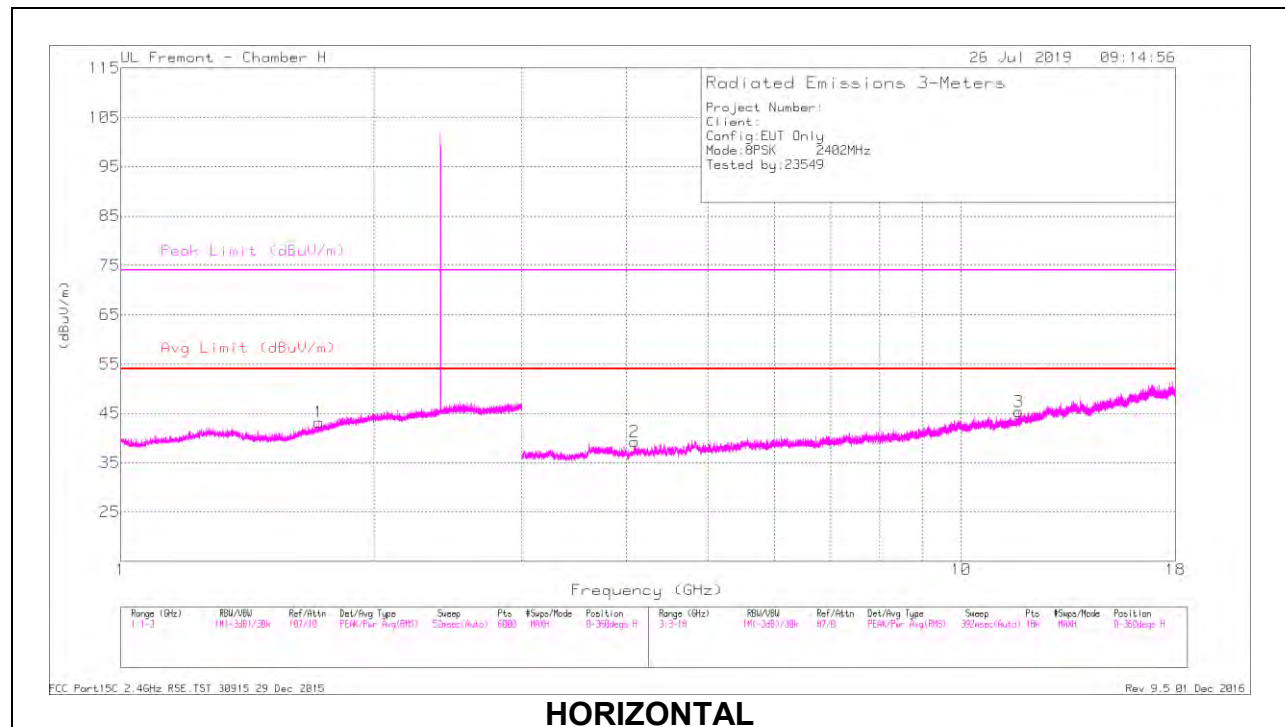
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	* 1.719	43.32	PKFH	29.5	-24.5	48.32	-	-	74	-25.68	73	302	H
	* 1.721	31.44	VA1T	29.5	-24.5	36.44	54	-17.56	-	-	73	302	H
4	* 1.556	43.82	PKFH	28	-24.7	47.12	-	-	74	-26.88	19	318	V
	* 1.556	31.53	VA1T	28	-24.7	34.83	54	-19.17	-	-	19	318	V
6	* 1.086	43.66	PKFH	27.6	-25.8	45.46	-	-	74	-28.54	245	276	V
	* 1.088	32.22	VA1T	27.6	-25.8	34.02	54	-19.98	-	-	245	276	V
2	* 4.092	41.38	PKFH	33.6	-30.8	44.18	-	-	74	-29.82	221	189	H
	* 4.091	29.19	VA1T	33.6	-30.8	31.99	54	-22.01	-	-	221	189	H
3	* 11.721	35.03	PKFH	38.4	-23.4	50.03	-	-	74	-23.97	289	385	H
	* 11.719	23.24	VA1T	38.4	-23.4	38.24	54	-15.76	-	-	289	385	H
5	8.775	35.94	PKFH	36.2	-25.1	47.04	-	-	-	-	338	383	V

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

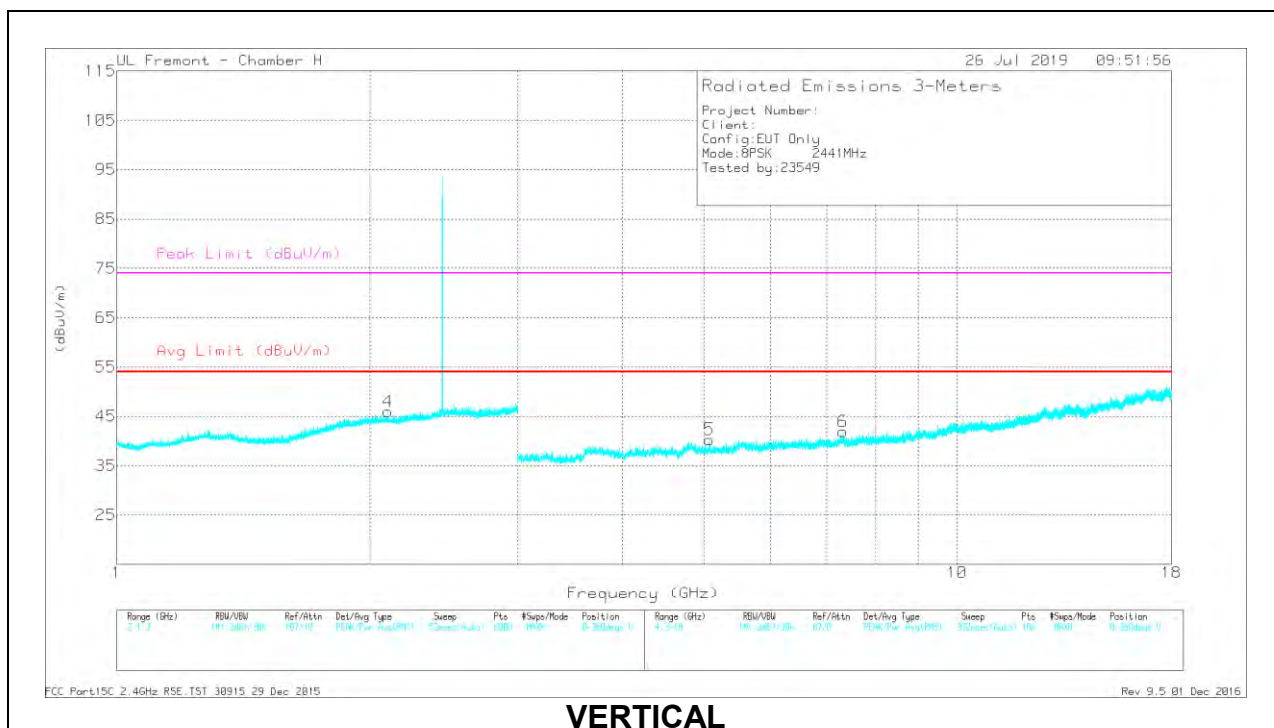
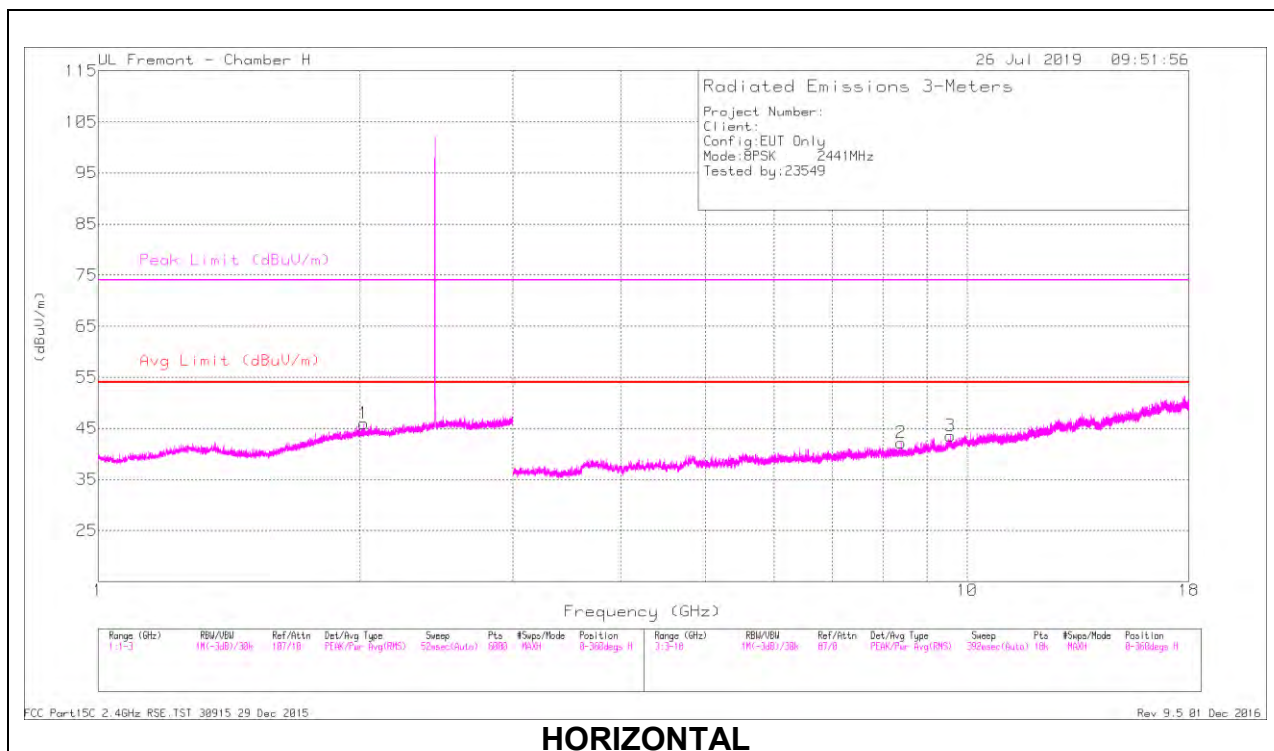
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

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MID CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 8.398	38.01	PKFH	36	-26.1	47.91	-	-	74	-26.09	136	400	H
	* 8.399	25.33	VA1T	36	-26.1	35.23	54	-18.77	-	-	136	400	H
5	* 5.076	40.16	PKFH	34.2	-29.4	44.96	-	-	74	-29.04	260	248	V
	* 5.077	28.44	VA1T	34.2	-29.4	33.24	54	-20.76	-	-	260	248	V
6	* 7.316	37.05	PKFH	36	-26.5	46.55	-	-	74	-27.45	142	116	V
	* 7.317	25.37	VA1T	36	-26.4	34.97	54	-19.03	-	-	142	116	V
1	2.022	42.77	PKFH	31.5	-24.1	50.17	-	-	-	-	181	263	H
4	2.105	43.16	PKFH	31.6	-24	50.76	-	-	-	-	95	108	V
3	9.566	35.67	PKFH	36.8	-23.6	48.87	-	-	-	-	22	345	H

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

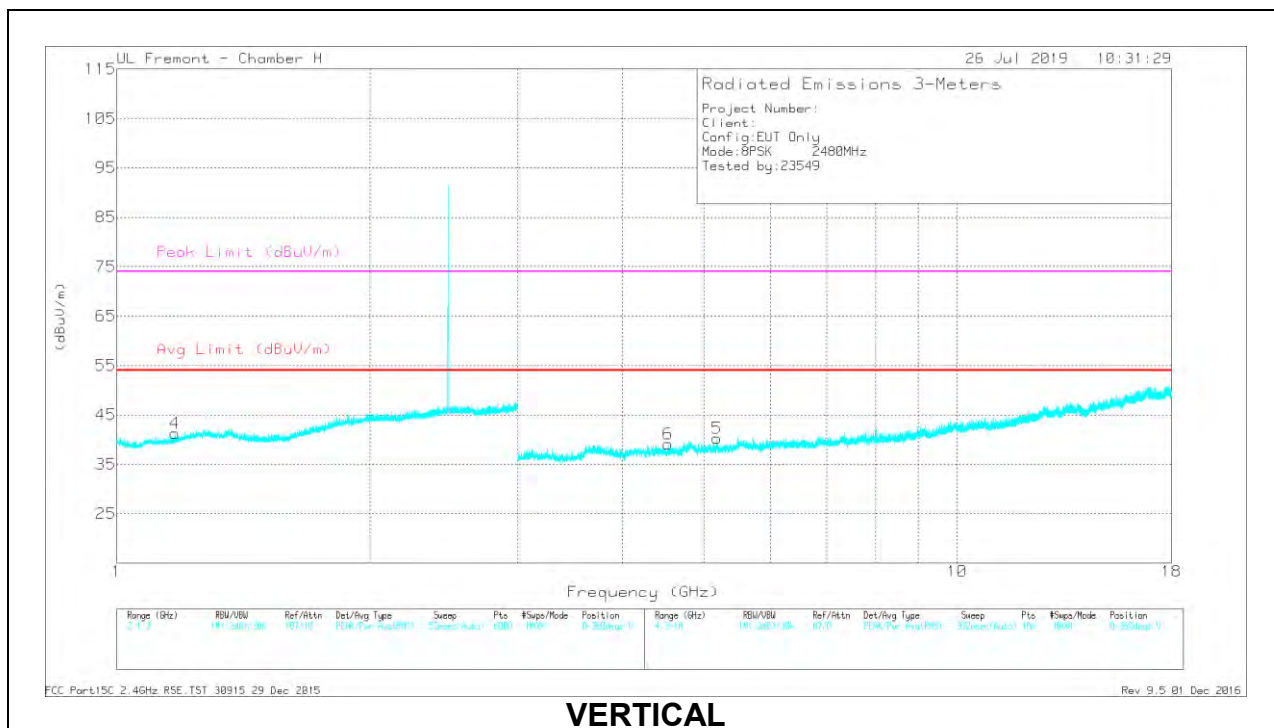
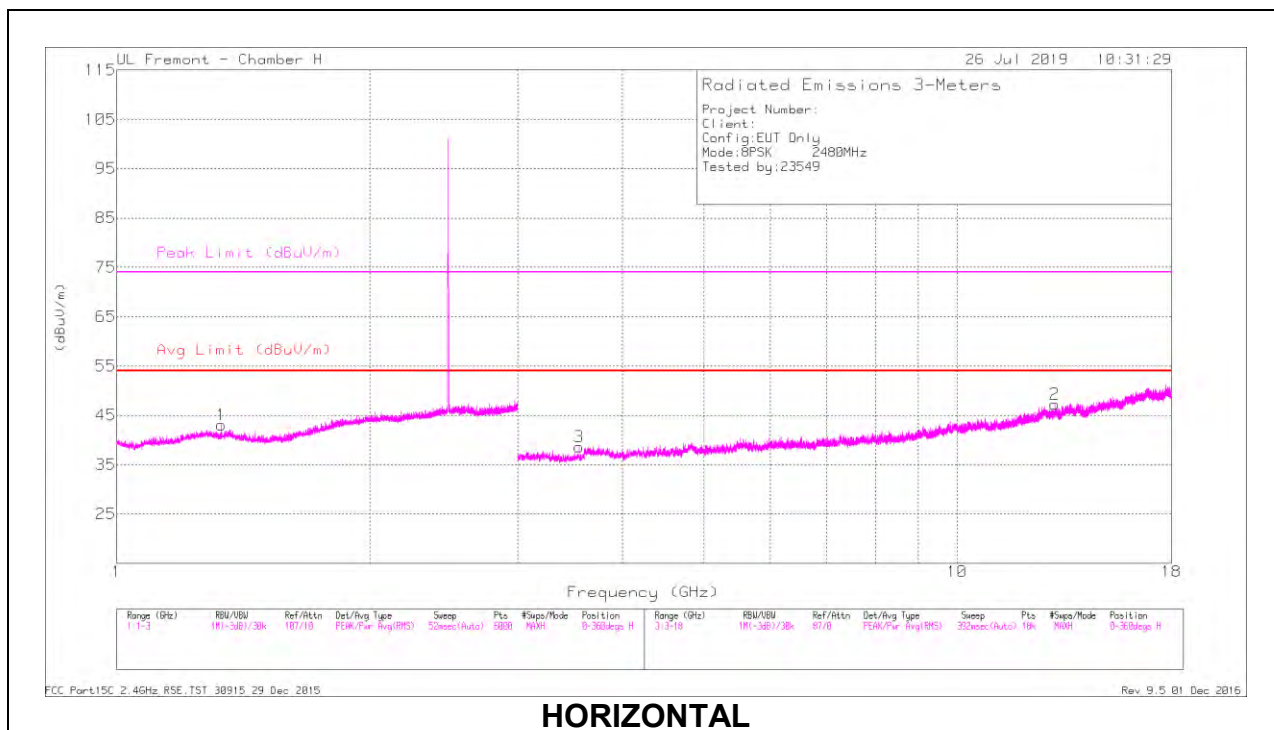
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

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HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	* 1.332	44.05	PKFH	28.8	-25.3	47.55	-	-	74	-26.45	2	370	H
	* 1.334	31.91	VA1T	28.9	-25.3	35.51	54	-18.49	-	-	2	370	H
4	* 1.174	43.93	PKFH	28	-25.6	46.33	-	-	74	-27.67	340	274	V
	* 1.172	32	VA1T	27.9	-25.6	34.3	54	-19.7	-	-	340	274	V
3	* 3.55	40.46	PKFH	33	-30.6	42.86	-	-	74	-31.14	15	327	H
	* 3.547	28.93	VA1T	33	-30.6	31.33	54	-22.67	-	-	15	327	H
6	* 4.533	40.7	PKFH	34.1	-30.3	44.5	-	-	74	-29.5	213	217	V
	* 4.534	28.75	VA1T	34.1	-30.3	32.55	54	-21.45	-	-	213	217	V
5	5.181	40.74	PKFH	34.4	-30	45.14	-	-	-	-	248	186	V
2	13.072	35.18	PKFH	39.4	-22	52.58	-	-	-	-	84	370	H

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

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

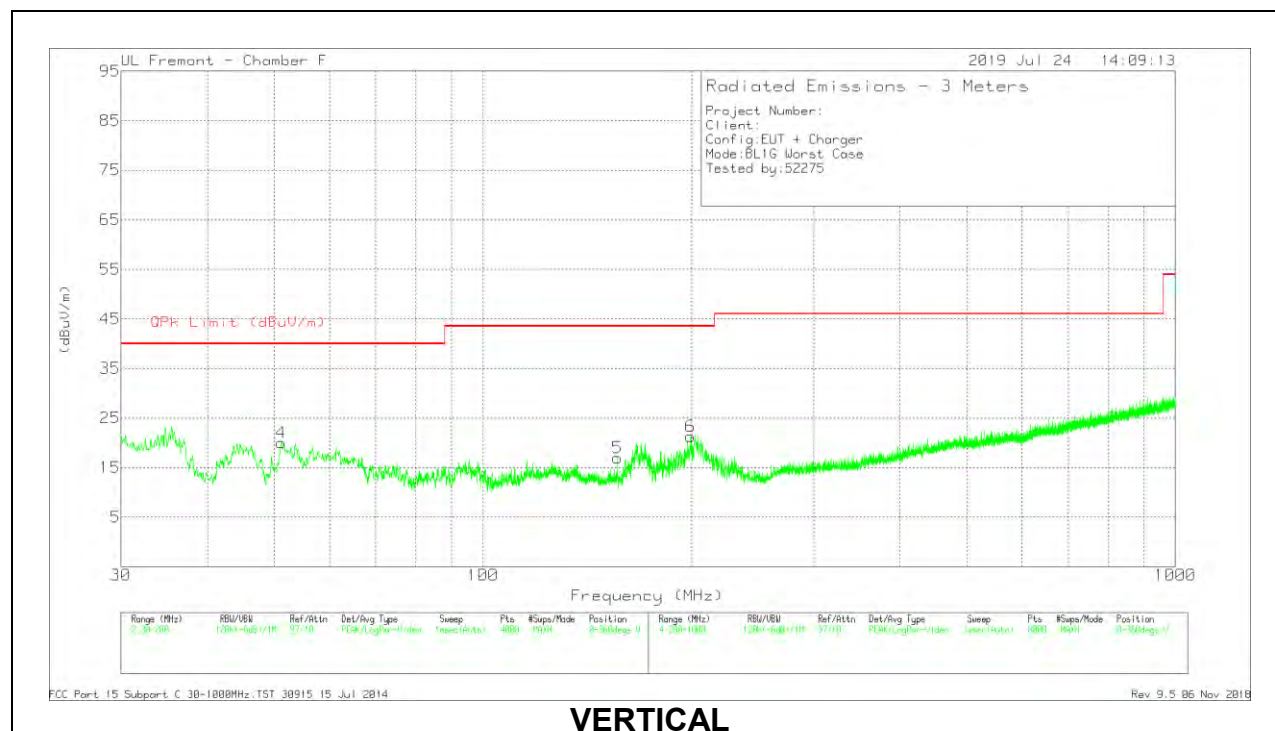
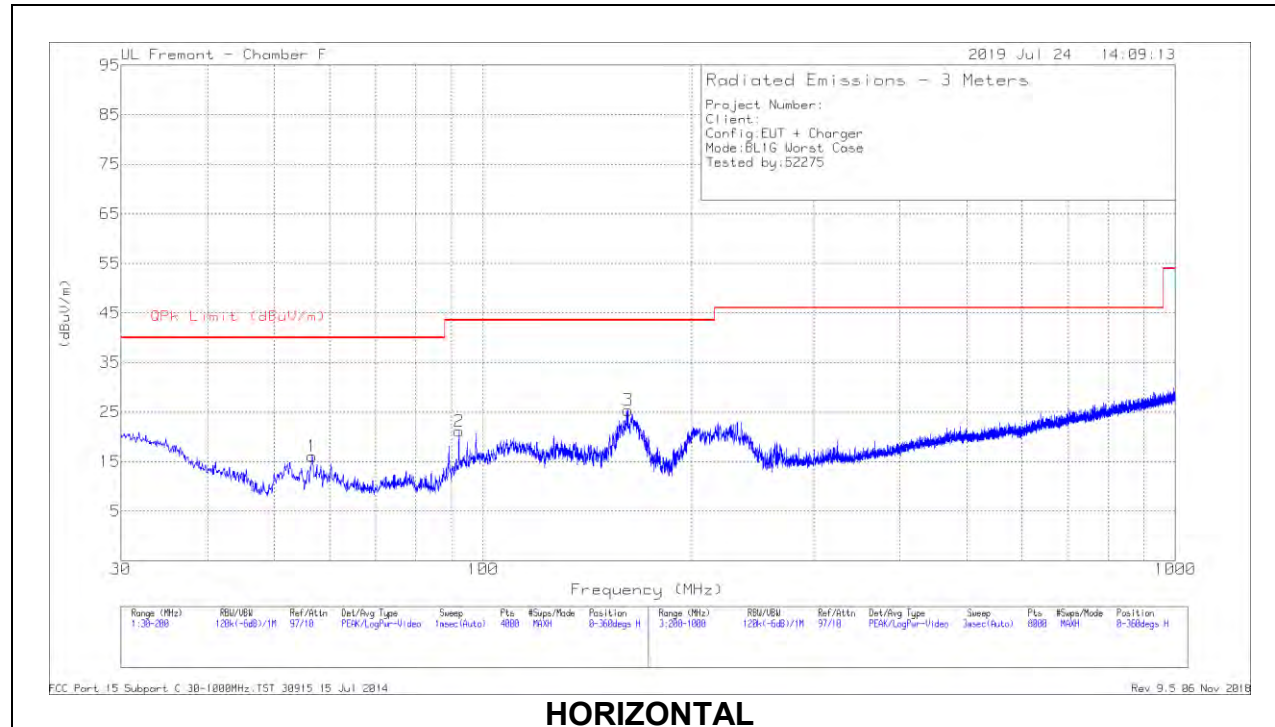
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

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9.1. WORST CASE BELOW 1 GHz

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



Below 1GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T407 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	56.5814	29.62	Qp	11.2	-31.6	9.22	40	-30.78	59	397	H
2	92.5549	28.53	Qp	12.2	-31.3	9.43	43.52	-34.09	55	298	H
3	161.8036	33.68	Qp	16.1	-30.7	19.08	43.52	-24.44	97	182	H
4	51.0705	33.76	Qp	11.6	-31.6	13.76	40	-26.24	340	100	V
5	156.4771	23.1	Qp	16.3	-30.8	8.6	43.52	-34.92	289	117	V
6	199.3316	29.03	Qp	16.3	-30.5	14.83	43.52	-28.69	211	113	V

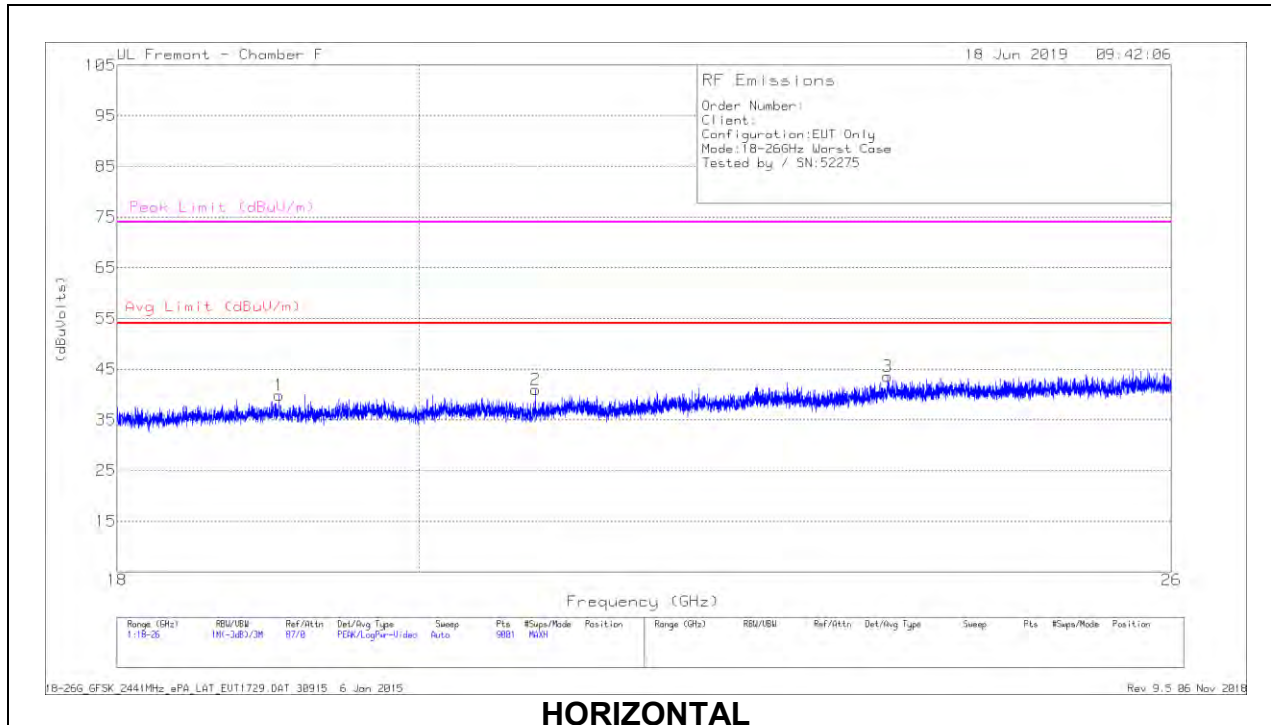
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Qp - Quasi-Peak detector

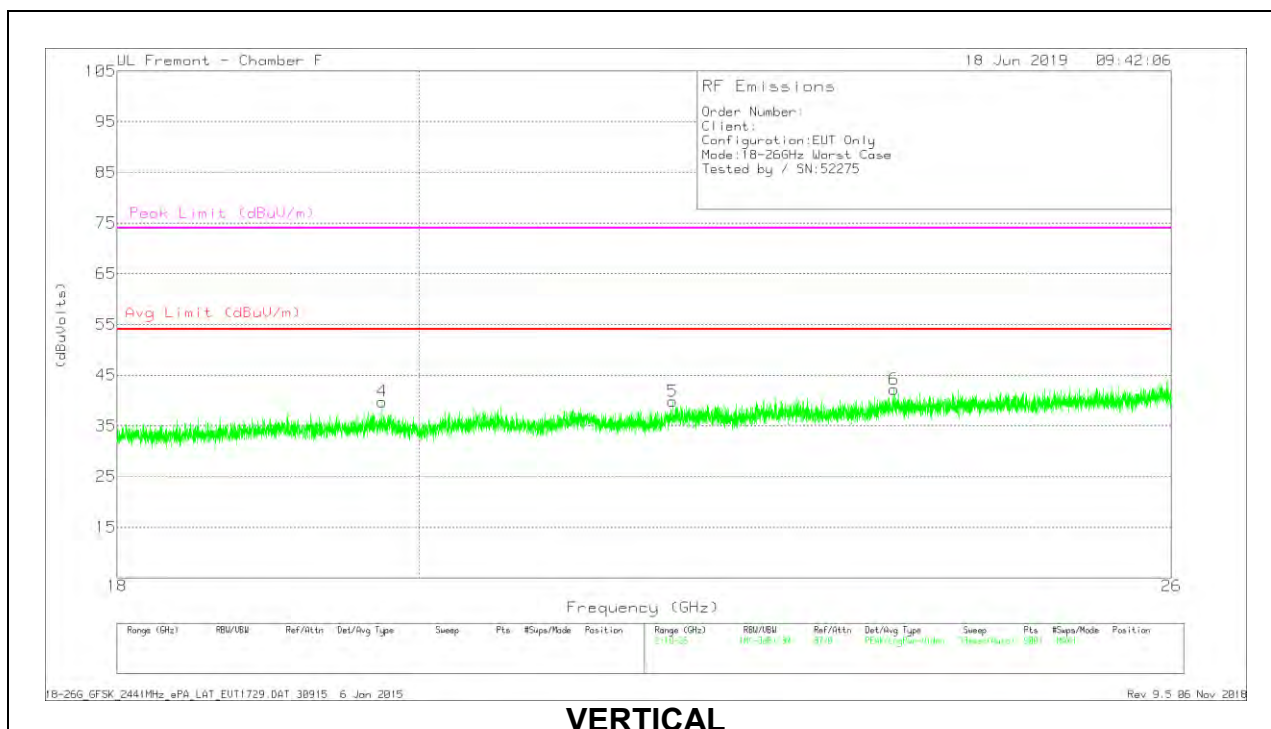
FCC Part 15 Subpart C 30-1000MHz.TST 30915 15 Jul 2014
Rev 9.5 06 Nov 2018

9.2. WORST CASE 18-26 GHZ

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



HORIZONTAL



VERTICAL

18 – 26GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T447 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	19.049	38.34	Pk	32.6	-21.6	-9.5	39.84	54	-14.16	74	-34.16
2	20.828	38.72	Pk	33	-21.3	-9.5	40.92	54	-13.08	74	-33.08
3	23.552	38.93	Pk	34.1	-20	-9.5	43.53	54	-10.47	74	-30.47
4	19.744	37.89	Pk	32.7	-21.3	-9.5	39.79	54	-14.21	74	-34.21
5	21.848	37.07	Pk	33.2	-20.9	-9.5	39.87	54	-14.13	74	-34.13
6	23.604	37.55	Pk	34.1	-19.9	-9.5	42.25	54	-11.75	74	-31.75

Pk - Peak detector

*.TST 30915 6 Jan 2015

Rev 9.5 19 Oct 2016

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (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 C63.4.

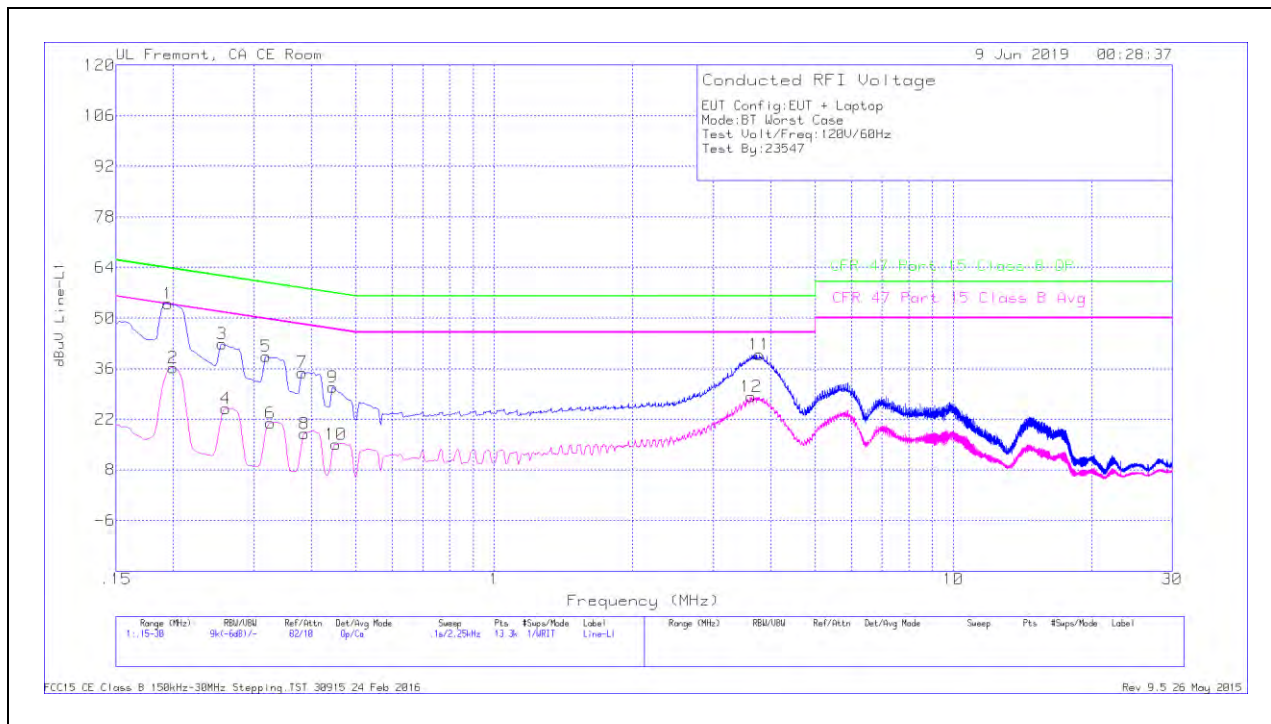
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

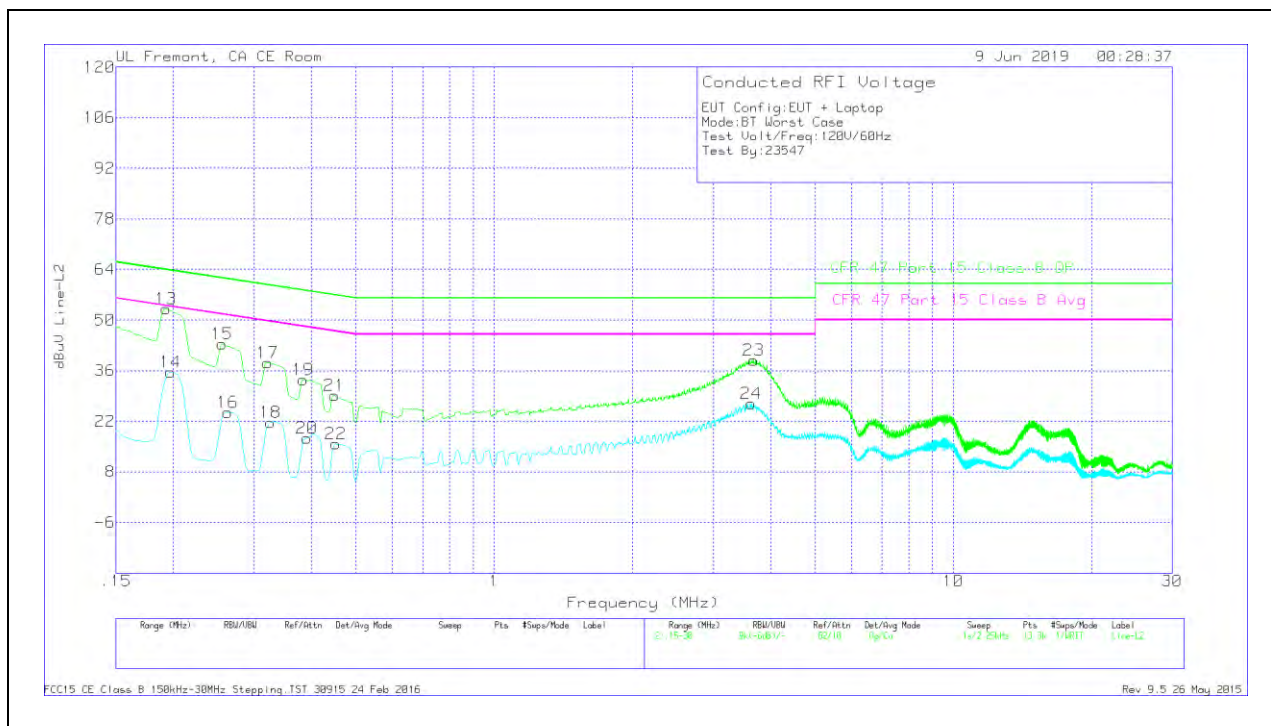
10.1. AC Power Line Host

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	.195	43.86	Qp	0	0	10.1	53.96	63.82	-9.86	-	-
2	.1995	26.15	Ca	0	0	10.1	36.25	-	-	53.63	-17.38
3	.25575	32.71	Qp	0	0	10.1	42.81	61.57	-18.76	-	-
4	.26025	14.94	Ca	0	0	10.1	25.04	-	-	51.42	-26.38
5	.31875	29.24	Qp	0	0	10.1	39.34	59.74	-20.4	-	-
6	.3255	10.84	Ca	0	0	10.1	20.94	-	-	49.57	-28.63
7	.38175	24.86	Qp	0	0	10.1	34.96	58.24	-23.28	-	-
8	.38625	7.95	Ca	0	0	10.1	18.05	-	-	48.14	-30.09
9	.44475	20.73	Qp	0	0	10.1	30.83	56.97	-26.14	-	-
10	.4515	5.03	Ca	0	0	10.1	15.13	-	-	46.85	-31.72
11	3.78375	29.71	Qp	0	.1	10.1	39.91	56	-16.09	-	-
12	3.6285	18.06	Ca	0	.1	10.1	28.26	-	-	46	-17.74

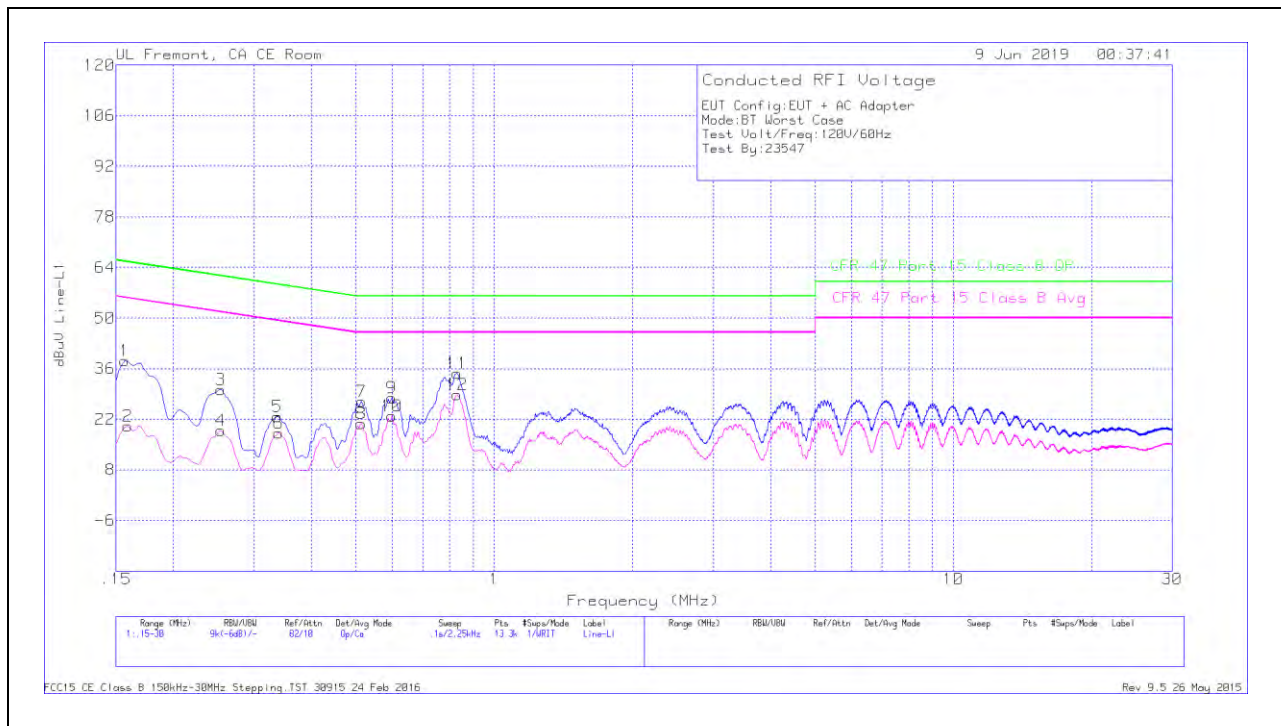
LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.19275	43.08	Qp	0	0	10.1	53.18	63.92	-10.74	-	-
14	.19725	25.45	Ca	0	0	10.1	35.55	-	-	53.73	-18.18
15	.25575	33.24	Qp	0	0	10.1	43.34	61.57	-18.23	-	-
16	.2625	14.42	Ca	0	0	10.1	24.52	-	-	51.35	-26.83
17	.321	28.08	Qp	0	0	10.1	38.18	59.68	-21.5	-	-
18	.3255	11.49	Ca	0	0	10.1	21.59	-	-	49.57	-27.98
19	.384	23.41	Qp	0	0	10.1	33.51	58.19	-24.68	-	-
20	.39075	7.18	Ca	0	0	10.1	17.28	-	-	48.05	-30.77
21	.44925	19.03	Qp	0	0	10.1	29.13	56.89	-27.76	-	-
22	.4515	5.59	Ca	0	0	10.1	15.69	-	-	46.85	-31.16
23	3.67125	28.73	Qp	0	.1	10.1	38.93	56	-17.07	-	-
24	3.62625	16.72	Ca	0	.1	10.1	26.92	-	-	46	-19.08

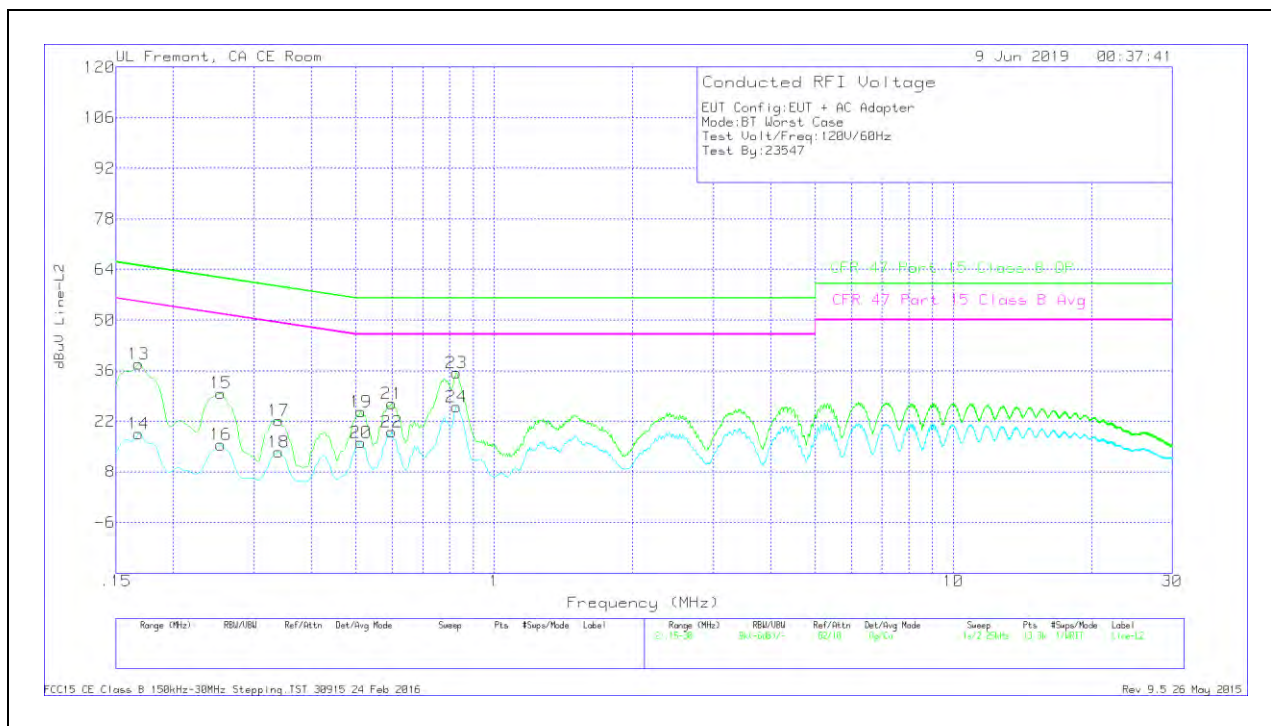
10.2. AC Power Line Norm

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	.15675	27.92	Qp	.1	0	10.1	38.12	65.63	-27.51	-	-
2	.159	9.83	Ca	.1	0	10.1	20.03	-	-	55.52	-35.49
3	.2535	20.1	Qp	0	0	10.1	30.2	61.64	-31.44	-	-
4	.2535	8.72	Ca	0	0	10.1	18.82	-	-	51.64	-32.82
5	.33675	12.61	Qp	0	0	10.1	22.71	59.28	-36.57	-	-
6	.339	8.17	Ca	0	0	10.1	18.27	-	-	49.23	-30.96
7	.5145	16.84	Qp	0	0	10.1	26.94	56	-29.06	-	-
8	.51337	10.77	Ca	0	0	10.1	20.87	-	-	46	-25.13
9	.59775	17.89	Qp	0	0	10.1	27.99	56	-28.01	-	-
10	.59775	12.74	Ca	0	0	10.1	22.84	-	-	46	-23.16
11	.8295	24.68	Qp	0	0	10.1	34.78	56	-21.22	-	-
12	.8295	18.66	Ca	0	0	10.1	28.76	-	-	46	-17.24

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	.168	27.56	Qp	.1	0	10.1	37.76	65.06	-27.3	-	-
14	.168	8.28	Ca	.1	0	10.1	18.48	-	-	55.06	-36.58
15	.2535	19.65	Qp	0	0	10.1	29.75	61.64	-31.89	-	-
16	.2535	5.4	Ca	0	0	10.1	15.5	-	-	51.64	-36.14
17	.339	12.09	Qp	0	0	10.1	22.19	59.23	-37.04	-	-
18	.339	3.44	Ca	0	0	10.1	13.54	-	-	49.23	-35.69
19	.51225	14.5	Qp	0	0	10.1	24.6	56	-31.4	-	-
20	.51225	6.06	Ca	0	0	10.1	16.16	-	-	46	-29.84
21	.59775	16.8	Qp	0	0	10.1	26.9	56	-29.1	-	-
22	.59775	8.92	Ca	0	0	10.1	19.02	-	-	46	-26.98
23	.82725	25.25	Qp	0	0	10.1	35.35	56	-20.65	-	-
24	.82725	15.9	Ca	0	0	10.1	26	-	-	46	-20

11. SETUP PHOTOS

Please refer to 12943451-EP1V1 for setup photos

END OF TEST REPORT