

RADIATED EMISSIONS

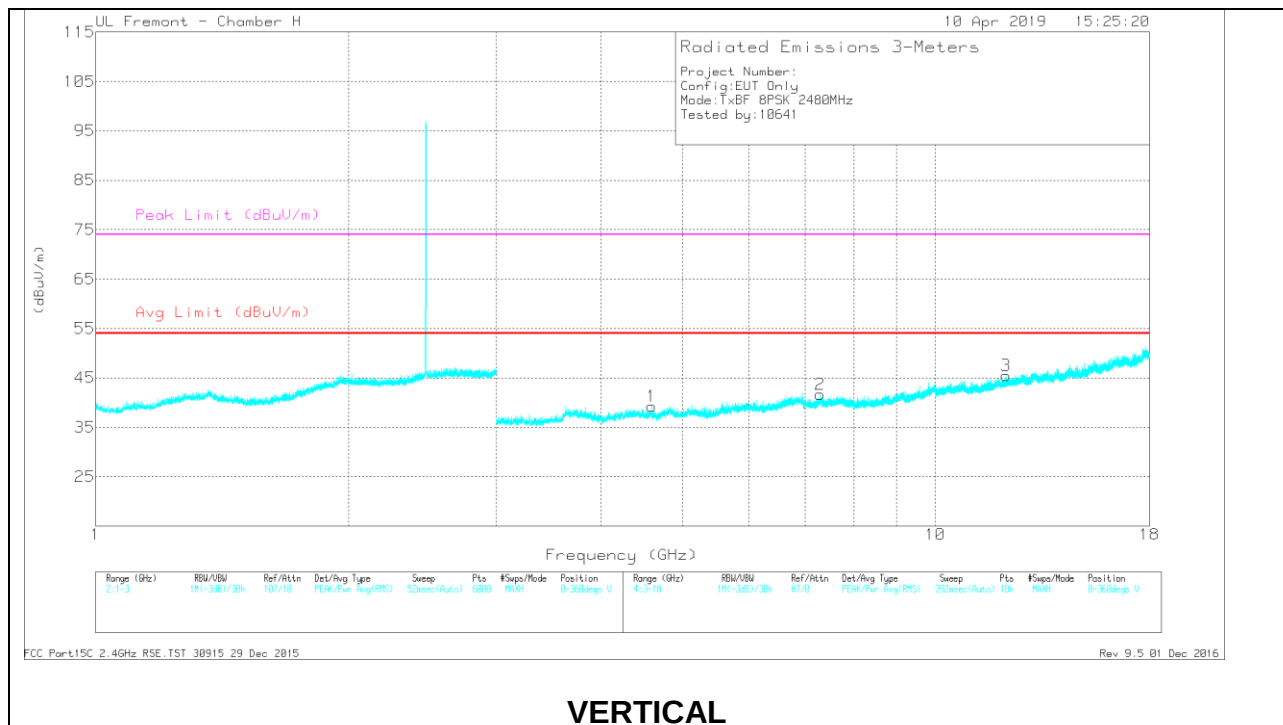
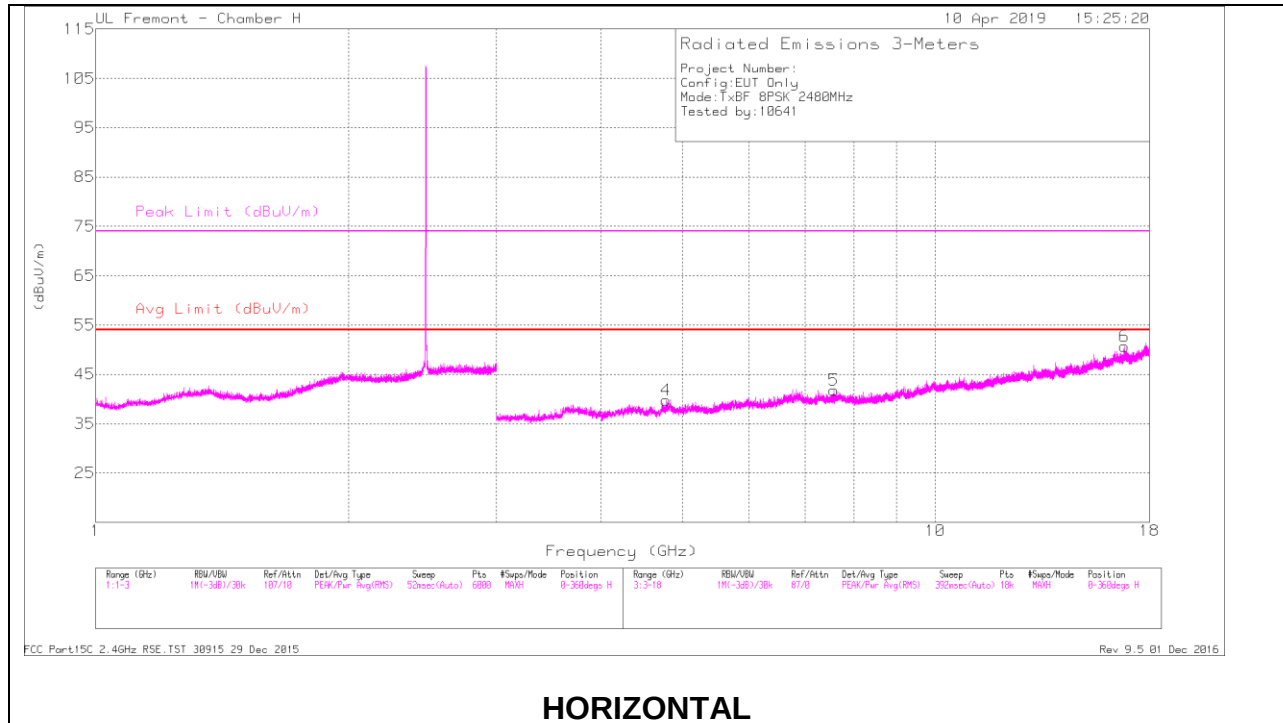
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.353	42.47	PKFH	30	-23.3	49.17	-	-	74	-24.83	0	101	H
	* 1.353	30.6	VA1T	30	-23.3	37.3	54	-16.7	-	-	0	101	H
2	* 1.304	42.46	PKFH	29.8	-23.5	48.76	-	-	74	-25.24	0	101	V
	* 1.305	30.81	VA1T	29.8	-23.5	37.11	54	-16.89	-	-	0	101	V
3	* 12.666	35.93	PKFH	39.6	-23	52.53	-	-	74	-21.47	0	101	H
	* 12.666	23.6	VA1T	39.6	-23	40.2	54	-13.8	-	-	0	101	H
4	* 12.298	35.15	PKFH	39.5	-22.5	52.15	-	-	74	-21.85	0	101	V
	* 12.298	23.43	VA1T	39.5	-22.5	40.43	54	-13.57	-	-	0	101	V
5	16.793	35.07	PKFH	41.7	-17.4	59.37	-	-	-	-	0	101	H
6	16.793	34.22	PKFH	41.7	-17.4	58.52	-	-	-	-	0	101	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 T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 4.78	40.19	PKFH	34.1	-30.2	44.09	-	-	74	-29.91	109	122	H
	* 4.778	28.93	VA1T	34.1	-30.2	32.83	54	-21.17	-	-	109	122	H
5	* 7.573	37.68	PKFH	36.6	-27.5	46.78	-	-	74	-27.22	143	145	H
	* 7.572	25.71	VA1T	36.6	-27.5	34.81	54	-19.19	-	-	143	145	H
1	* 4.595	40.74	PKFH	34.2	-30	44.94	-	-	74	-29.06	237	145	V
	* 4.596	28.38	VA1T	34.2	-30	32.58	54	-21.42	-	-	237	145	V
2	* 7.292	37.01	PKFH	36.4	-26.8	46.61	-	-	74	-27.39	193	170	V
	* 7.289	25.5	VA1T	36.4	-26.9	35	54	-19	-	-	193	170	V
3	* 12.145	35.52	PKFH	39	-23	51.52	-	-	74	-22.48	160	187	V
	* 12.145	22.83	VA1T	39	-23	38.83	54	-15.17	-	-	160	187	V
6	16.816	34.78	PKFH	41.6	-21.1	55.28	-	-	74	-18.72	285	126	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

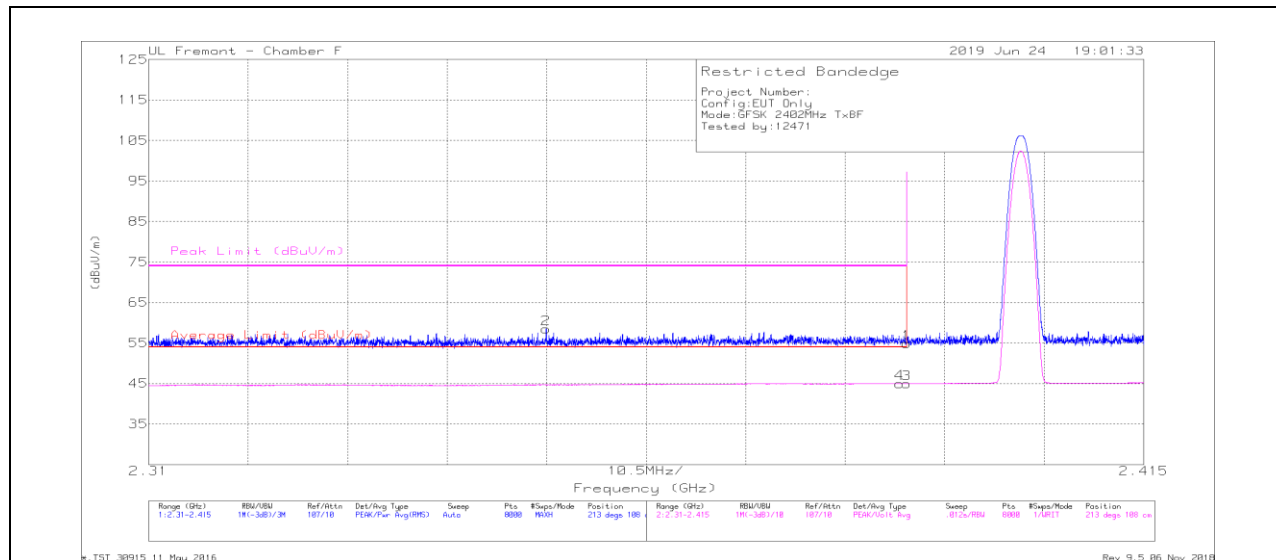
FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

9.1.11. Beamforming 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/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	37.36	Pk	32	-14.5	54.86	-	-	74	-19.14	213	108	H
2	* 2.352	41.24	Pk	31.7	-14.5	58.44	-	-	74	-15.56	213	108	H
3	* 2.39	27.46	VA1T	32	-14.5	44.96	54	-9.04	-	-	213	108	H
4	* 2.389	27.51	VA1T	32	-14.5	45.01	54	-8.99	-	-	213	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

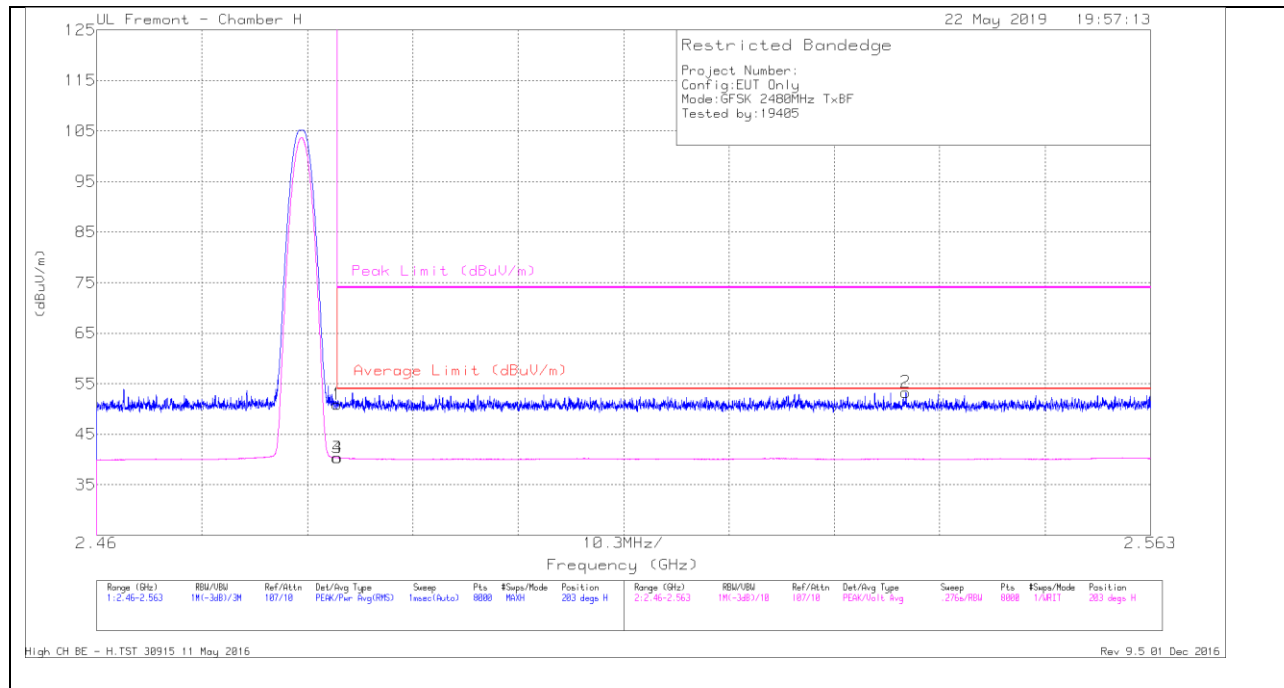


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.89	Pk	32	-14.5	55.39	-	-	74	-18.61	163	398	V
2	* 2.363	40.64	Pk	31.8	-14.4	58.04	-	-	74	-15.96	163	398	V
3	* 2.39	27.4	VA1T	32	-14.5	44.9	54	-9.1	-	-	163	398	V
4	* 2.377	27.48	VA1T	31.9	-14.4	44.98	54	-9.02	-	-	163	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

BANEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

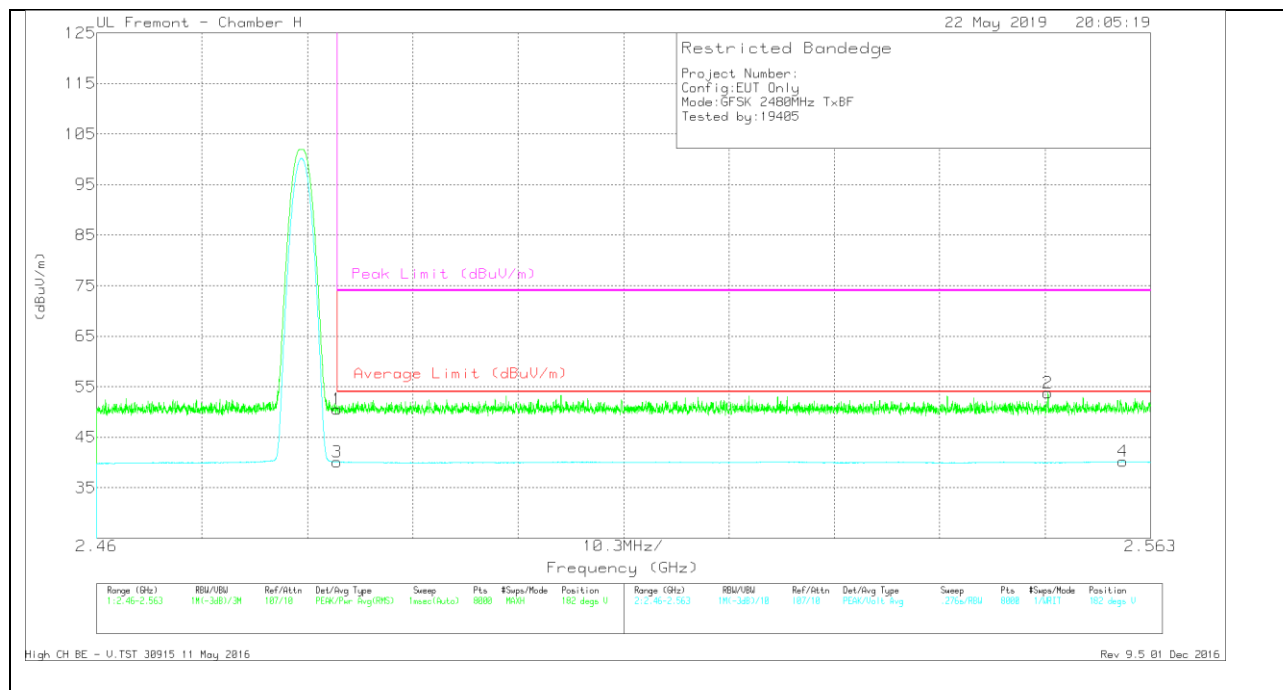
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.97	Pk	32.3	-23.3	50.97	-	-	74	-23.03	203	164	H
3	* 2.484	31.34	VA1T	32.3	-23.3	40.34	54	-13.66	-	-	203	164	H
4	* 2.484	31.33	VA1T	32.3	-23.3	40.33	54	-13.67	-	-	203	164	H
2	2.539	44.13	Pk	32.3	-23.1	53.33	-	-	74	-20.67	203	164	H

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

Pk - Peak detector

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

VERTICAL RESULT

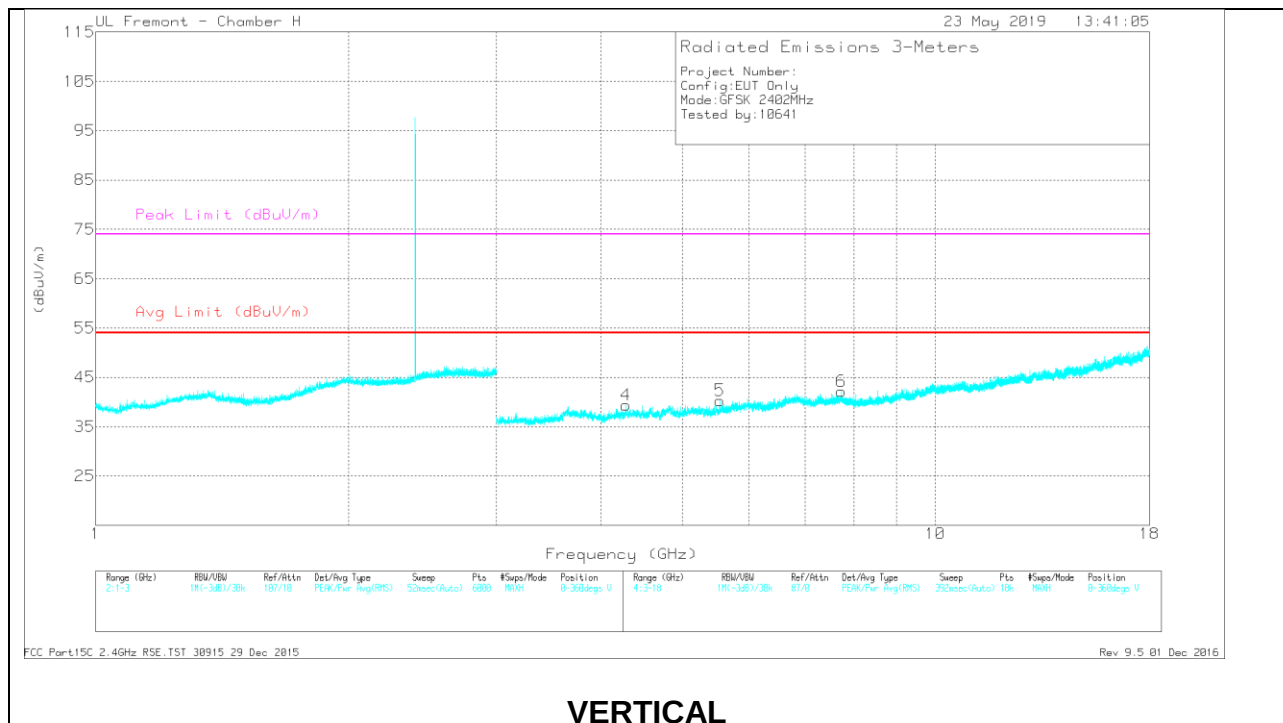
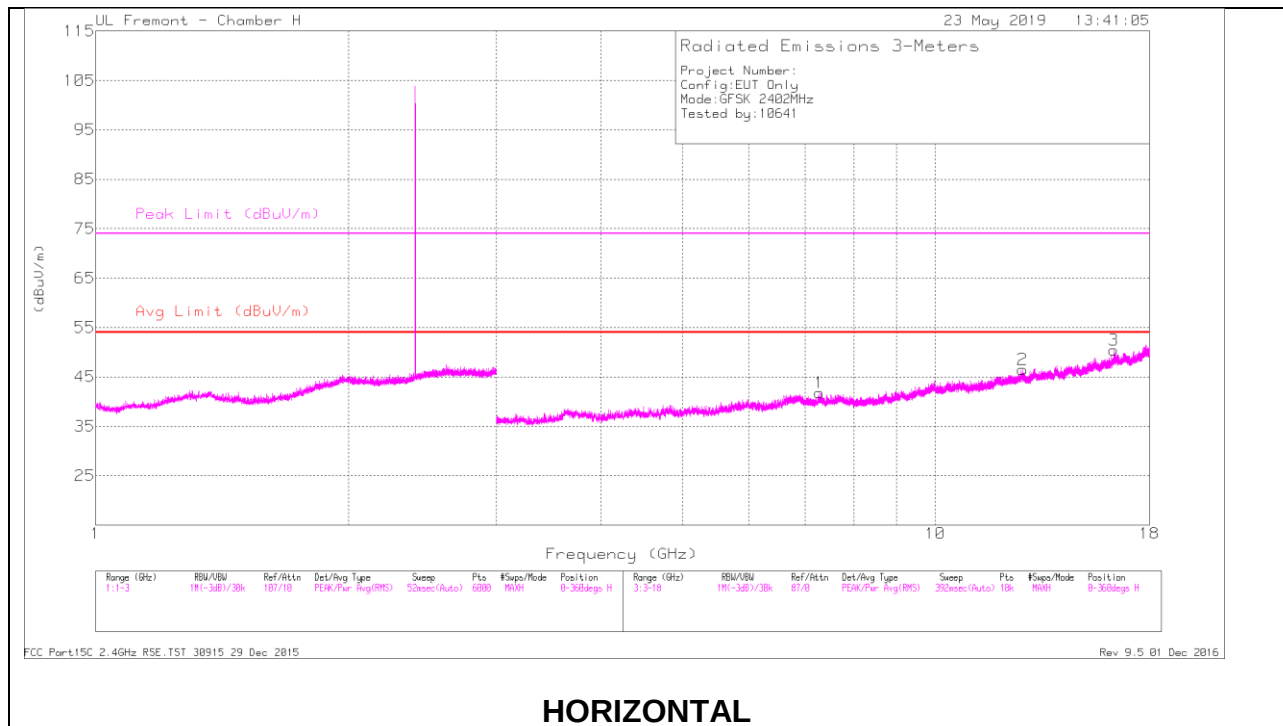


Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.59	Pk	32.3	-23.3	50.59	-	-	74	-23.41	182	333	V
3	* 2.484	31.1	VA1T	32.3	-23.3	40.1	54	-13.9	-	-	182	333	V
2	2.553	44.66	Pk	32.3	-23.2	53.76	-	-	74	-20.24	182	333	V
4	2.56	30.89	VA1T	32.4	-23.1	40.19	54	-13.81	-	-	182	333	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

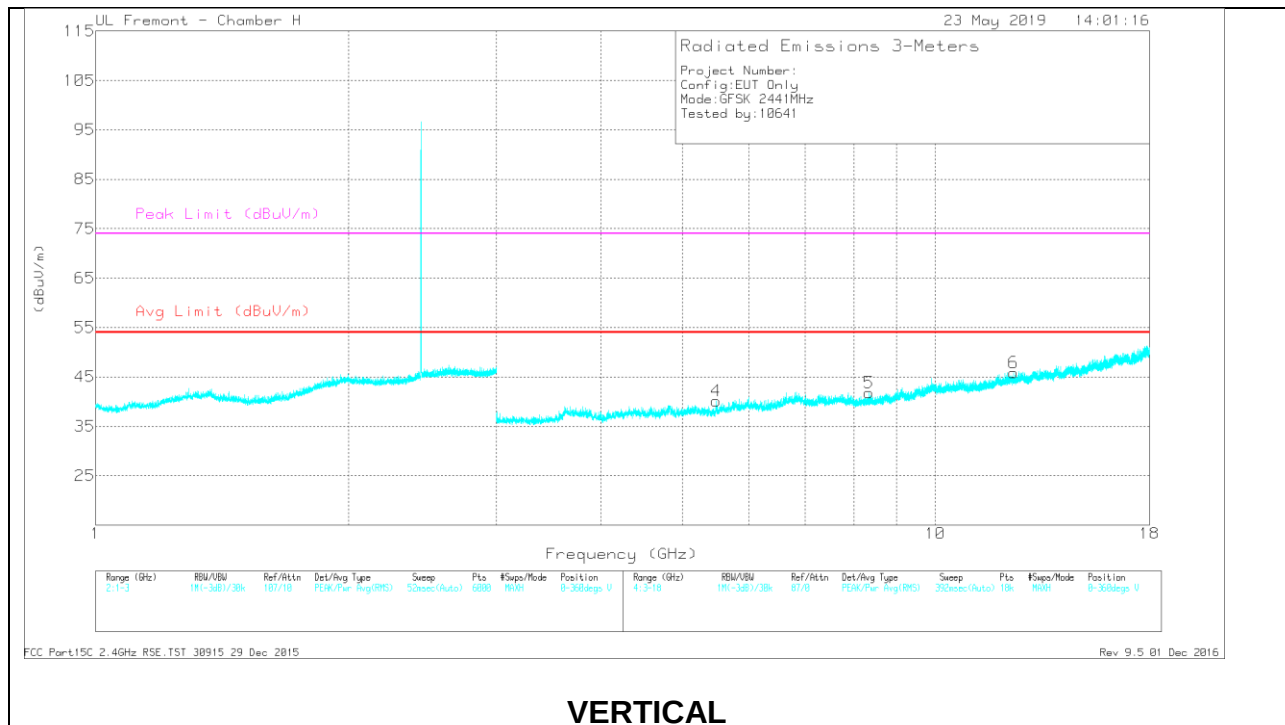
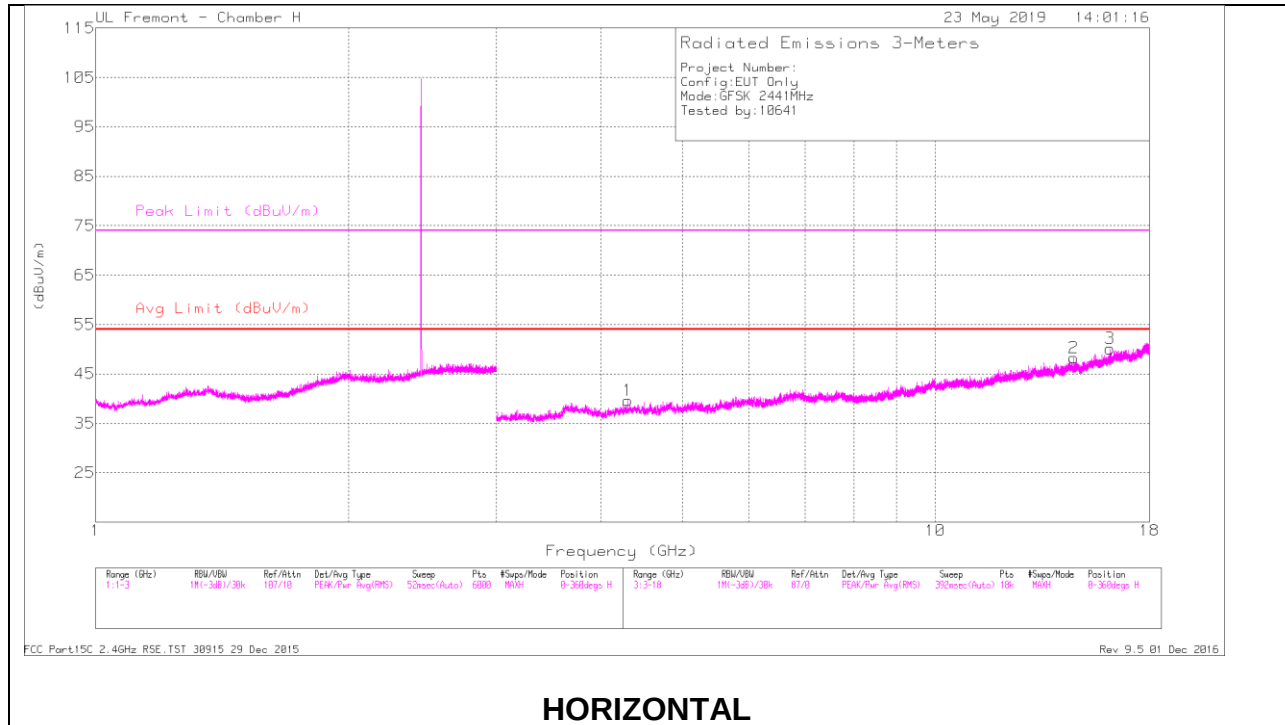
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 7.284	37.25	PKFH	36.4	-27	46.65	-	-	74	-27.35	316	118	H
	* 7.286	25.75	VA1T	36.4	-27	35.15	54	-18.85	-	-	316	118	H
4	* 4.285	39.82	PKFH	33.7	-30	43.52	-	-	74	-30.48	260	128	V
	* 4.284	28.34	VA1T	33.7	-30	32.04	54	-21.96	-	-	260	128	V
6	* 7.729	37.24	PKFH	36.5	-26.4	47.34	-	-	74	-26.66	217	142	V
	* 7.728	25.24	VA1T	36.5	-26.4	35.34	54	-18.66	-	-	217	142	V
5	5.536	40.05	PKFH	34.7	-29.6	45.15	-	-	74	-28.85	172	211	V
2	12.712	34.18	PKFH	39.2	-22	51.38	-	-	74	-22.62	182	158	H
3	16.32	34.25	PKFH	41.4	-20.5	55.15	-	-	74	-18.85	146	192	H

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

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

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

MID CHANNEL RESULTS



RADIATED EMISSIONS

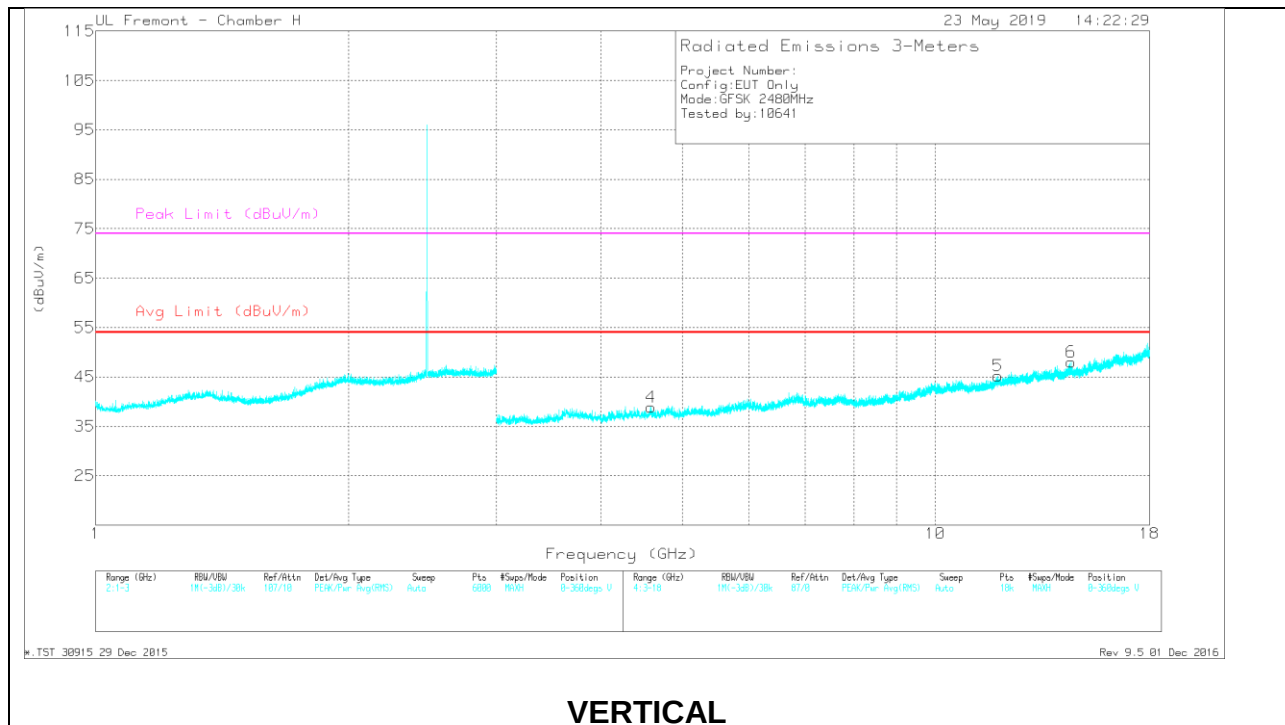
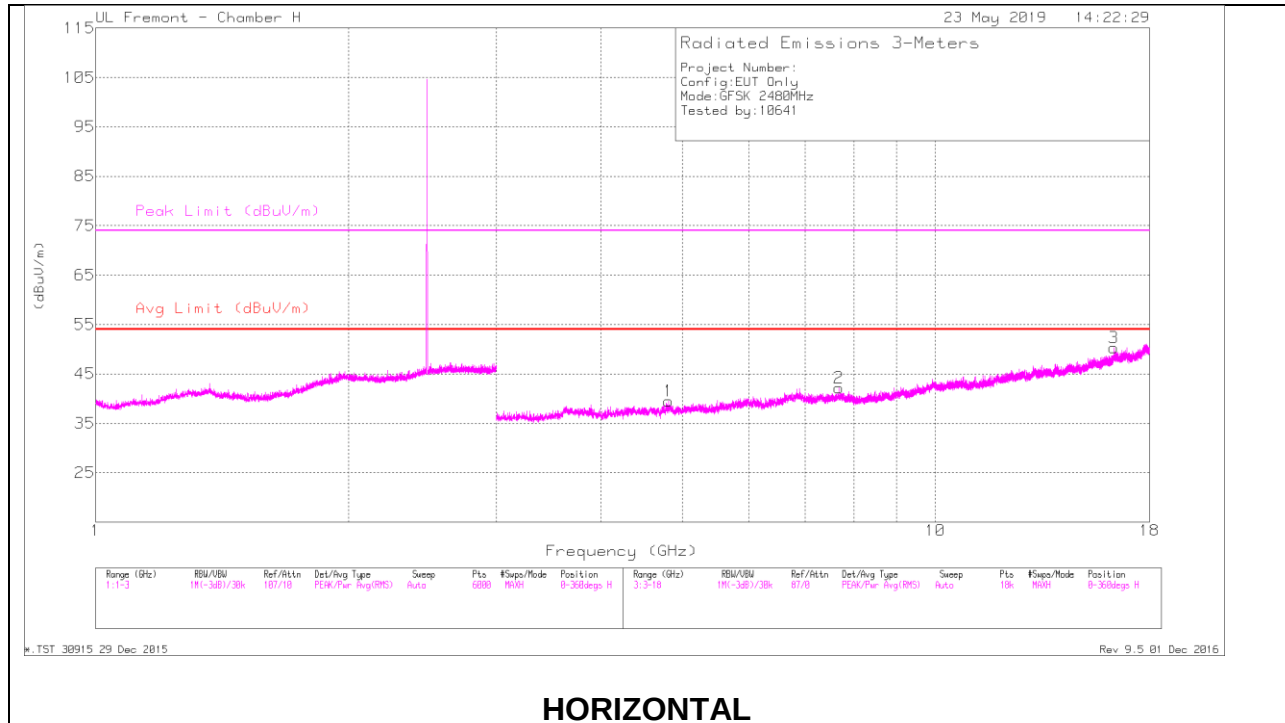
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.303	39.87	PKFH	33.7	-29.9	43.67	-	-	74	-30.33	136	129	H
	* 4.302	28.05	VA1T	33.7	-29.9	31.85	54	-22.15	-	-	136	129	H
3	* 16.151	35.73	PKFH	41.2	-21.9	55.03	-	-	74	-18.97	152	213	H
	* 16.153	23.03	VA1T	41.2	-21.9	42.33	54	-11.67	-	-	152	213	H
5	* 8.334	35.74	PKFH	35.8	-25.7	45.84	-	-	74	-28.16	189	232	V
	* 8.336	24.61	VA1T	35.8	-25.7	34.71	54	-19.29	-	-	189	232	V
6	* 12.392	35.71	PKFH	39.2	-23.2	51.71	-	-	74	-22.29	275	211	V
	* 12.392	23.28	VA1T	39.2	-23.2	39.28	54	-14.72	-	-	278	211	V
4	5.483	39.98	PKFH	34.5	-29.4	45.08	-	-	74	-28.92	339	259	V
2	14.628	36.08	PKFH	40	-22.5	53.58	-	-	74	-20.42	312	236	H

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

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

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

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.811	40.41	PKFH	34.1	-30.3	44.21	-	-	74	-29.79	155	286	H
	* 4.815	28.91	VA1T	34.1	-30.3	32.71	54	-21.29	-	-	155	286	H
2	* 7.68	37.31	PKFH	36.6	-26.8	47.11	-	-	74	-26.89	196	266	H
	* 7.679	25.34	VA1T	36.6	-26.8	35.14	54	-18.86	-	-	196	266	H
4	* 4.589	40.56	PKFH	34.2	-30.1	44.66	-	-	74	-29.34	172	289	V
	* 4.59	28.6	VA1T	34.2	-30.1	32.7	54	-21.3	-	-	172	289	V
5	* 11.881	35.45	PKFH	38.7	-22.7	51.45	-	-	74	-22.55	188	260	V
	* 11.879	22.98	VA1T	38.7	-22.7	38.98	54	-15.02	-	-	188	260	V
6	14.515	35.01	PKFH	39.9	-21.9	53.01	-	-	74	-20.99	262	200	V
3	16.311	33.92	PKFH	41.3	-20.6	54.62	-	-	74	-19.38	221	241	H

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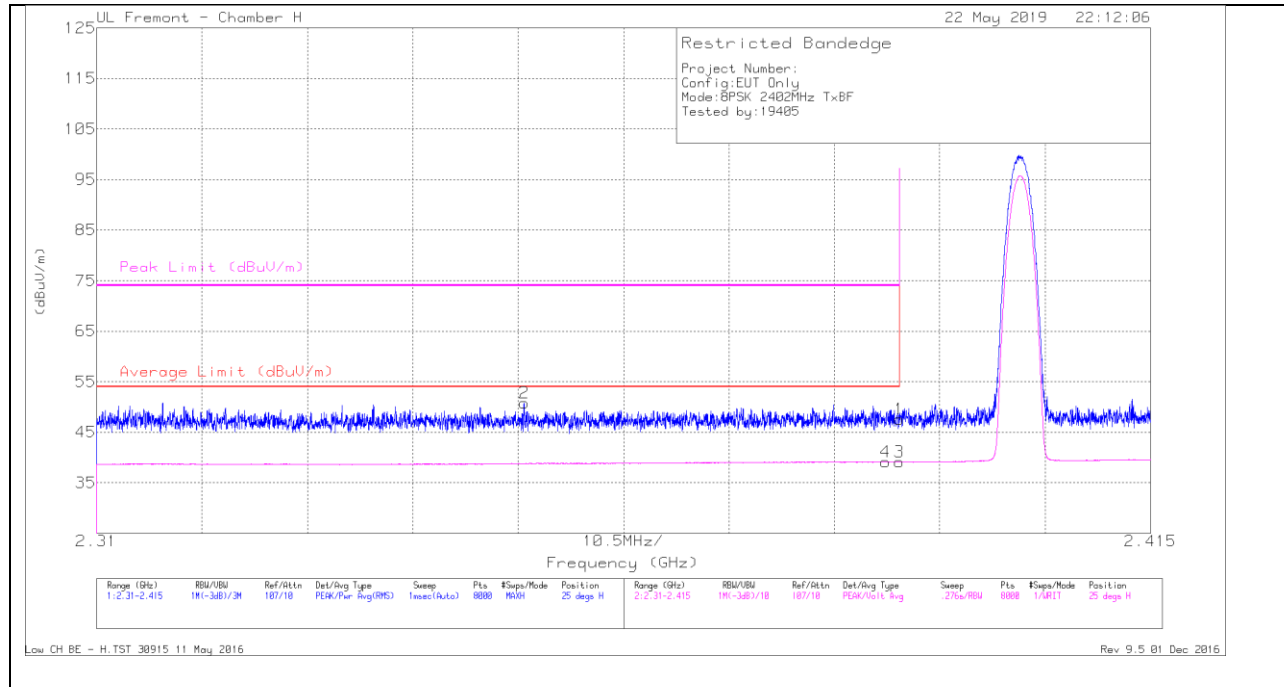
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

9.1.12. Beamforming LOW POWER BASIC DATA RATE 8PSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



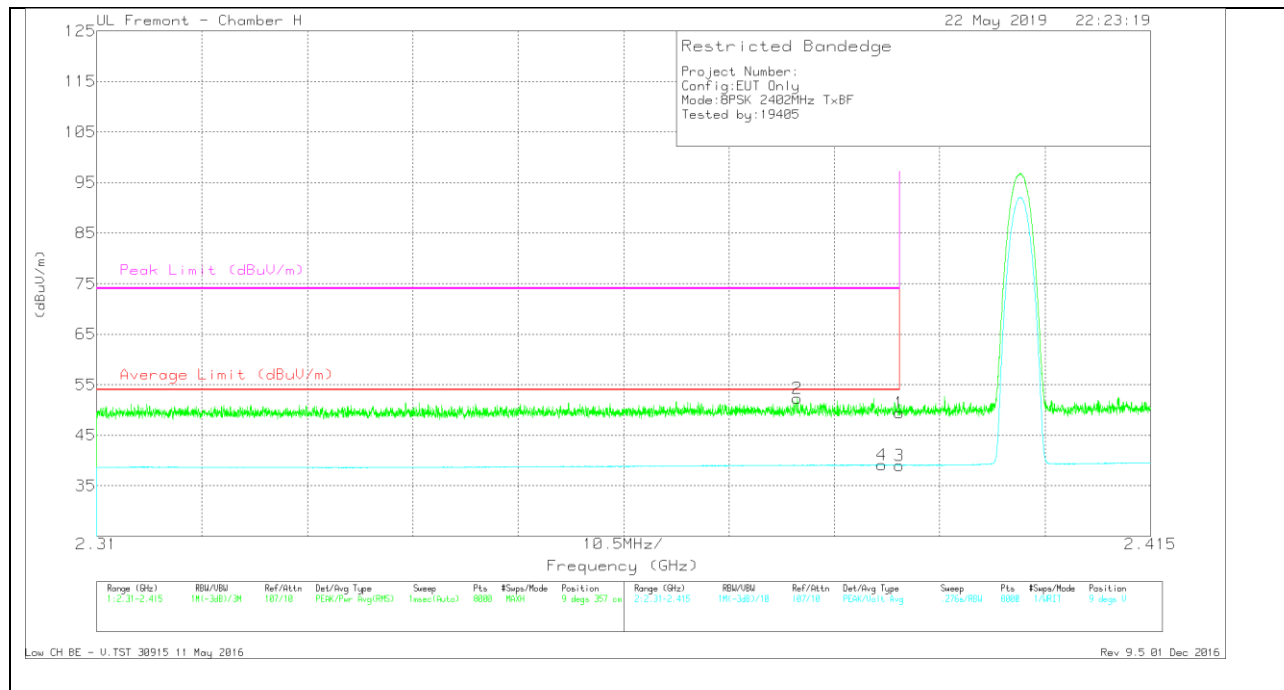
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.48	PK	31.6	-23.5	47.58	-	-	74	-26.42	25	108	H
2	* 2.353	42.97	PK	31.4	-23.6	50.77	-	-	74	-23.23	25	108	H
3	* 2.39	30.99	VA1T	31.6	-23.5	39.09	54	-14.91	-	-	25	108	H
4	* 2.389	31.07	VA1T	31.6	-23.5	39.17	54	-14.83	-	-	25	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

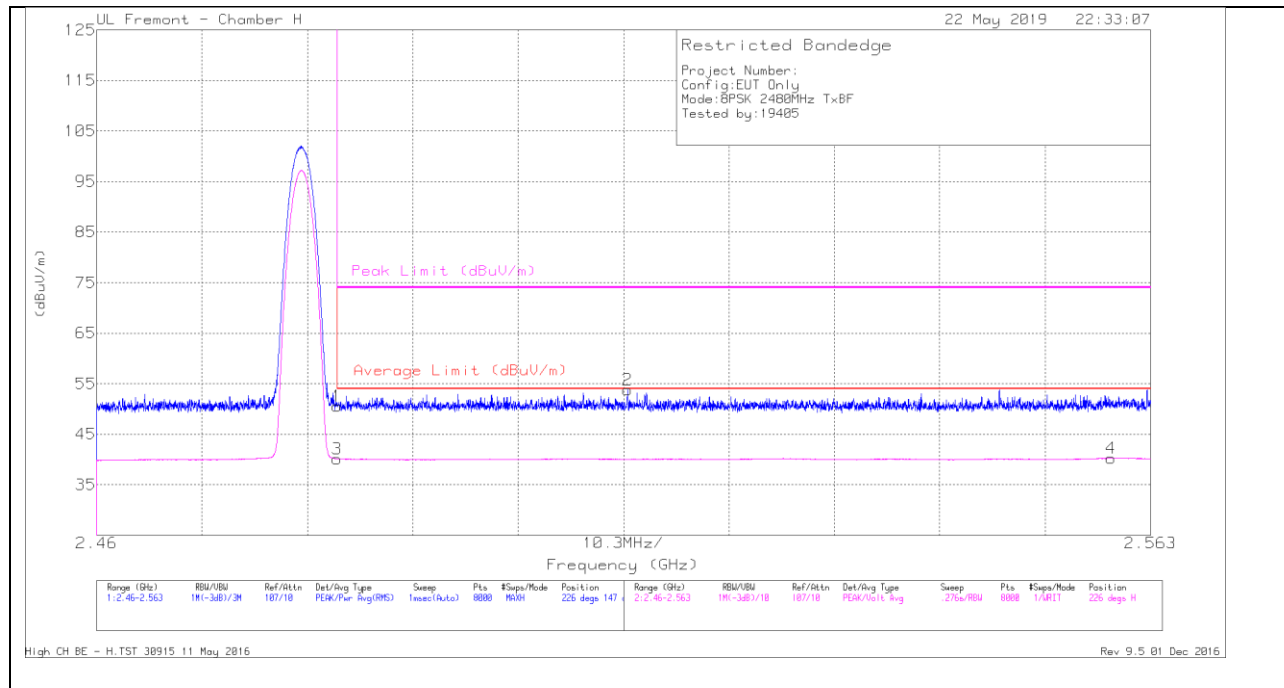


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.36	Pk	31.6	-23.5	49.46	-	-	74	-24.54	9	357	V
2	* 2.38	44.16	Pk	31.6	-23.5	52.26	-	-	74	-21.74	9	357	V
3	* 2.39	30.95	VA1T	31.6	-23.5	39.05	54	-14.95	-	-	9	357	V
4	* 2.388	31.01	VA1T	31.6	-23.5	39.11	54	-14.89	-	-	9	357	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**

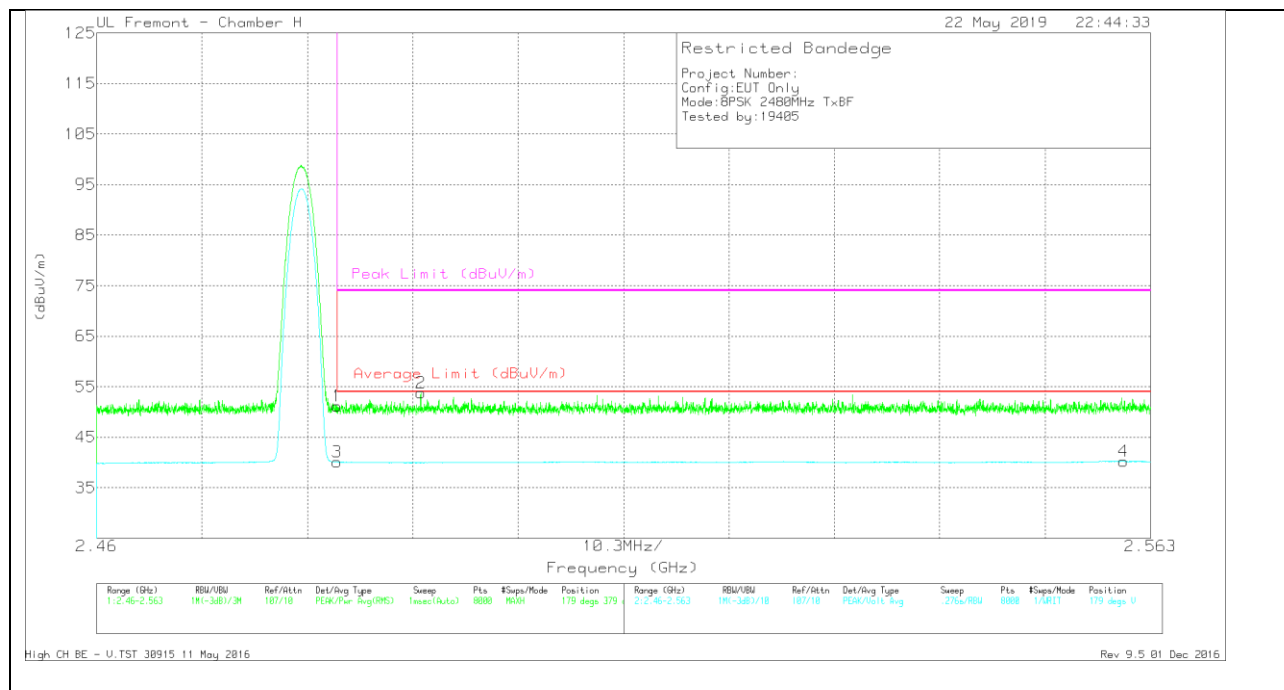
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.55	Pk	32.3	-23.3	50.55	-	-	74	-23.45	226	147	H
3	* 2.484	31.11	VA1T	32.3	-23.3	40.11	54	-13.89	-	-	226	147	H
2	2.512	44.71	Pk	32.4	-23.3	53.81	-	-	74	-20.19	226	147	H
4	2.559	30.94	VA1T	32.4	-23.1	40.24	54	-13.76	-	-	226	147	H

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Pk - Peak detector

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

VERTICAL RESULT

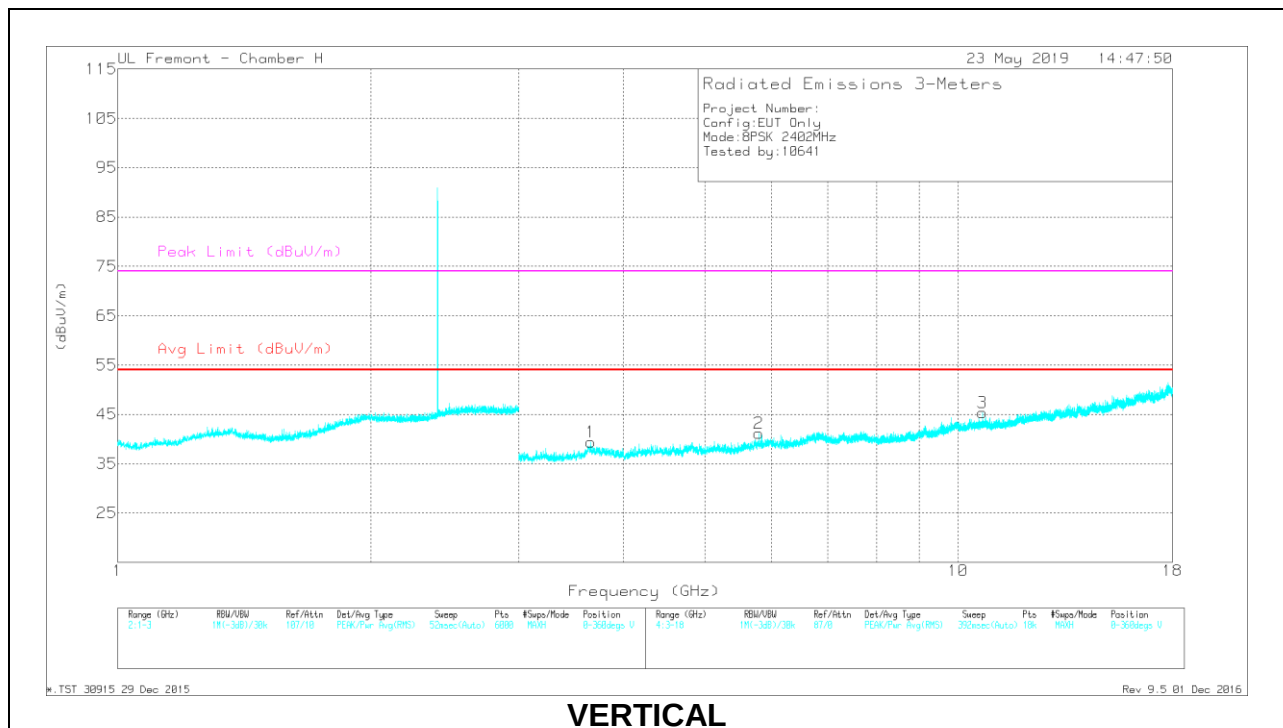
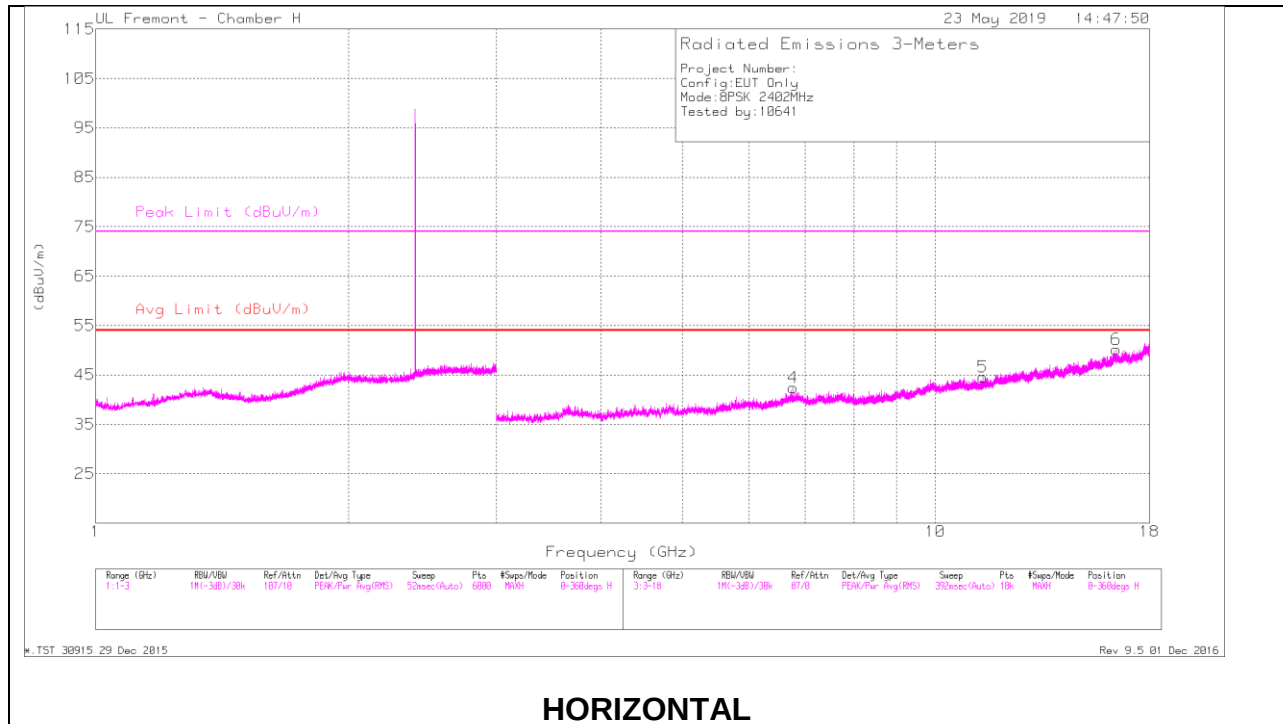


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.18	Pk	32.3	-23.3	51.18	-	-	74	-22.82	179	379	V
2	* 2.492	44.76	Pk	32.3	-23.3	53.76	-	-	74	-20.24	179	379	V
3	* 2.484	31.09	VA1T	32.3	-23.3	40.09	54	-13.91	-	-	179	379	V
4	2.56	30.94	VA1T	32.4	-23.1	40.24	54	-13.76	-	-	179	379	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

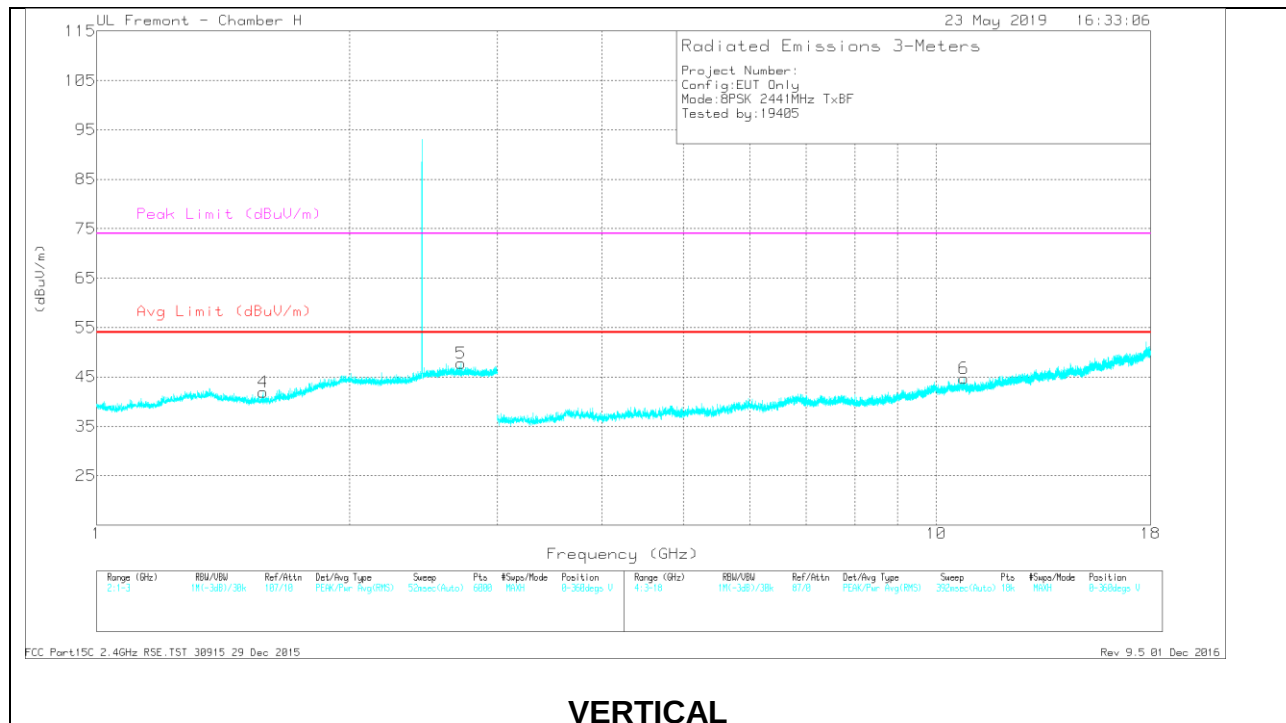
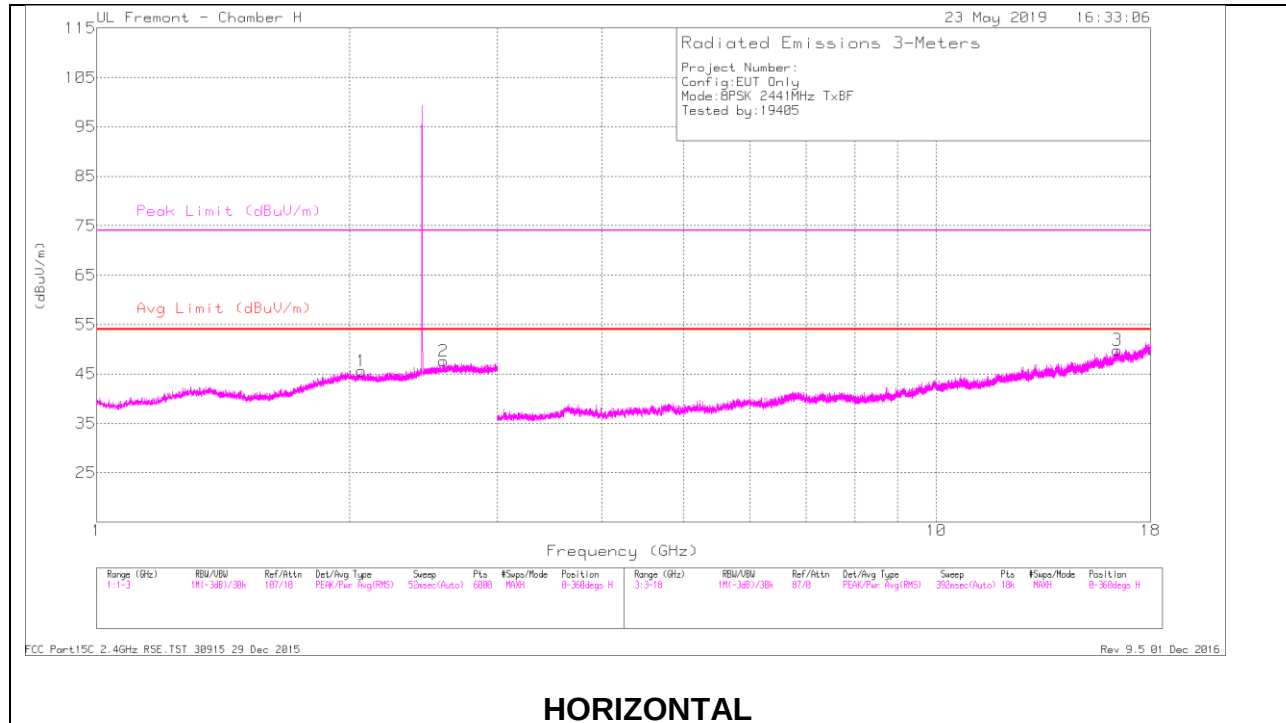
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 11.397	34.79	PKFH	38.2	-23.6	49.39	-	-	74	-24.61	171	134	H
	* 11.397	23.17	VA1T	38.2	-23.6	37.77	54	-16.23	-	-	171	134	H
1	* 3.656	40.27	PKFH	33.1	-29.6	43.77	-	-	74	-30.23	135	192	V
	* 3.657	28.18	VA1T	33.1	-29.5	31.78	54	-22.22	-	-	135	192	V
3	* 10.689	34.54	PKFH	37.7	-22.7	49.54	-	-	74	-24.46	174	215	V
	* 10.688	22.99	VA1T	37.7	-22.7	37.99	54	-16.01	-	-	174	215	V
2	5.791	39.99	PKFH	35.5	-29	46.49	-	-	74	-27.51	173	301	V
4	6.772	39.29	PKFH	36.8	-28.9	47.19	-	-	74	-26.81	171	359	H
6	16.434	34.79	PKFH	41.6	-20.9	55.49	-	-	74	-18.51	321	319	H

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

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

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

MID CHANNEL RESULTS



RADIATED EMISSIONS

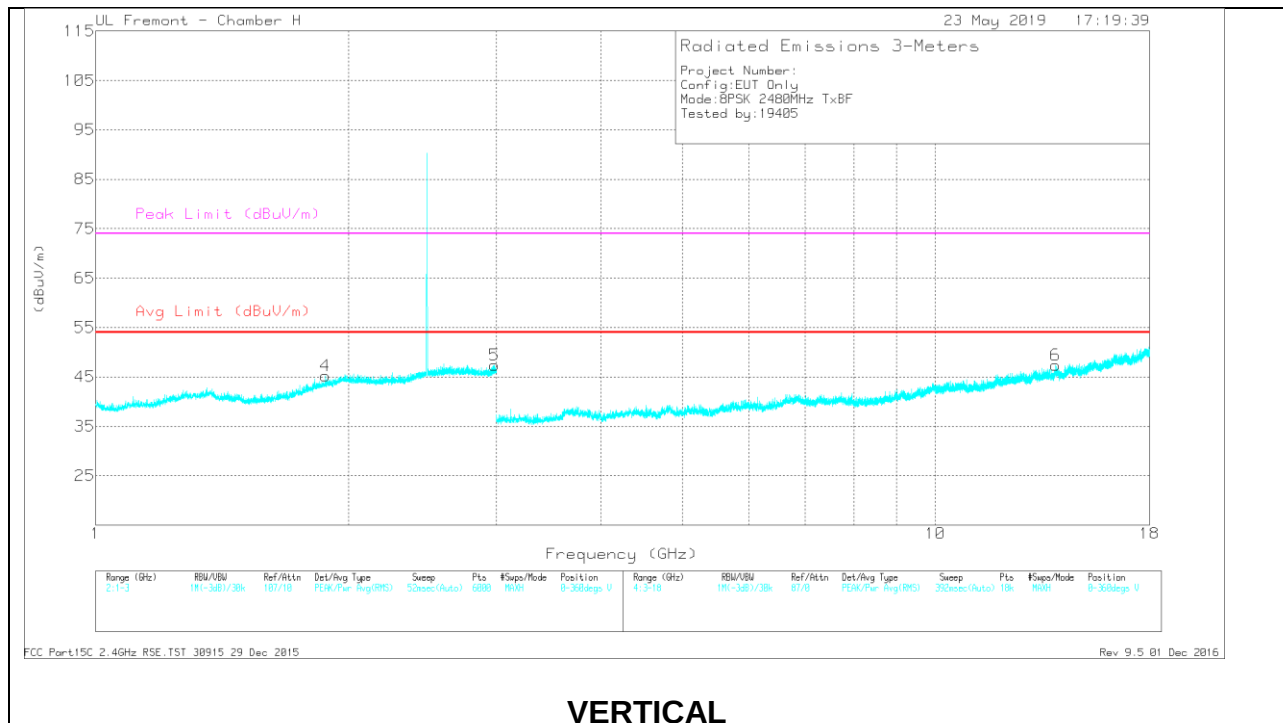
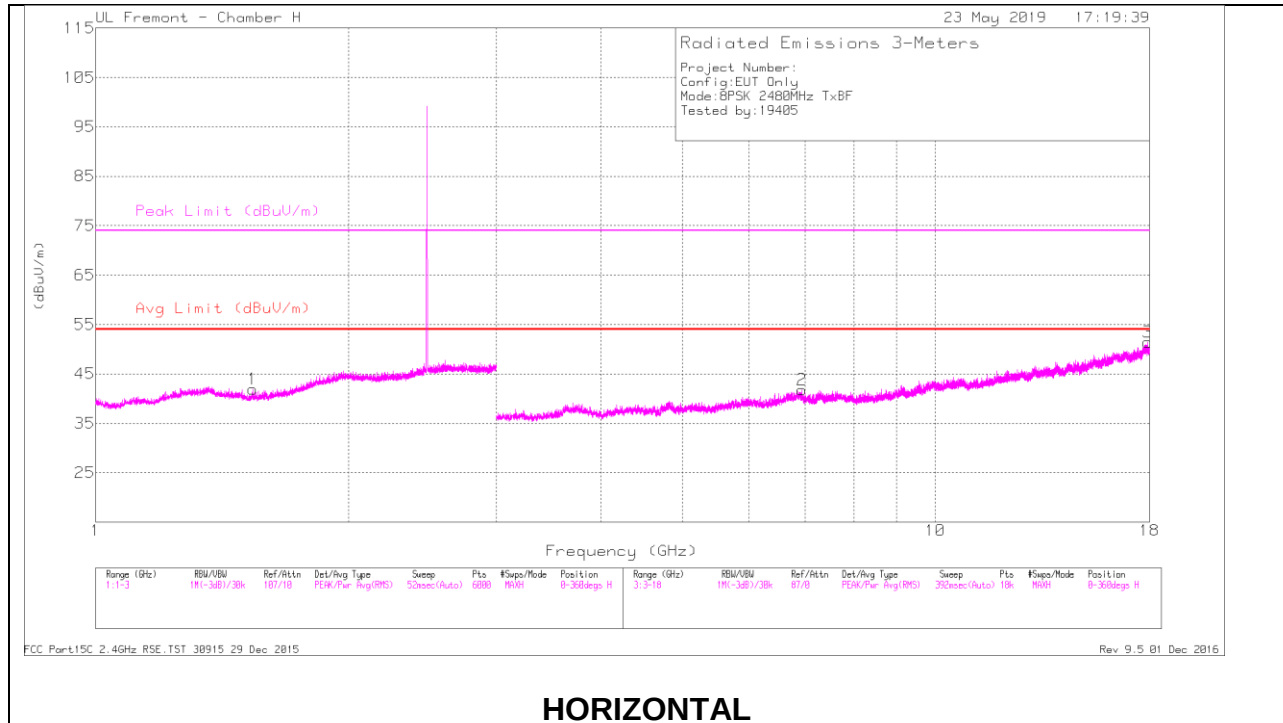
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.581	44.69	PK2	28.1	-24.7	48.09	-	-	74	-25.91	123	134	V
	* 1.581	32.74	MAv1	28.1	-24.7	36.14	54	-17.86	-	-	123	134	V
5	* 2.714	44.11	PK2	32.5	-23.1	53.51	-	-	74	-20.49	349	185	V
	* 2.716	32.29	MAv1	32.5	-23.1	41.69	54	-12.31	-	-	349	185	V
6	* 10.787	35.99	PK2	37.8	-22.5	51.29	-	-	74	-22.71	123	182	V
	* 10.787	23.86	MAv1	37.8	-22.5	39.16	54	-14.84	-	-	123	182	V
1	2.065	44.67	PK2	31.5	-24.1	52.07	-	-	-	-	340	177	H
	2.071	32.56	MAv1	31.4	-24.1	39.86	-	-	-	-	340	177	H
2	2.586	44.64	PK2	32.4	-23.2	53.84	-	-	-	-	333	208	H
	2.589	32.26	MAv1	32.5	-23.2	41.56	-	-	-	-	333	208	H
3	16.426	35.23	PK2	41.5	-20.9	55.83	-	-	-	-	271	196	H
	16.426	24.07	MAv1	41.5	-20.9	44.67	-	-	-	-	271	196	H

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

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

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

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

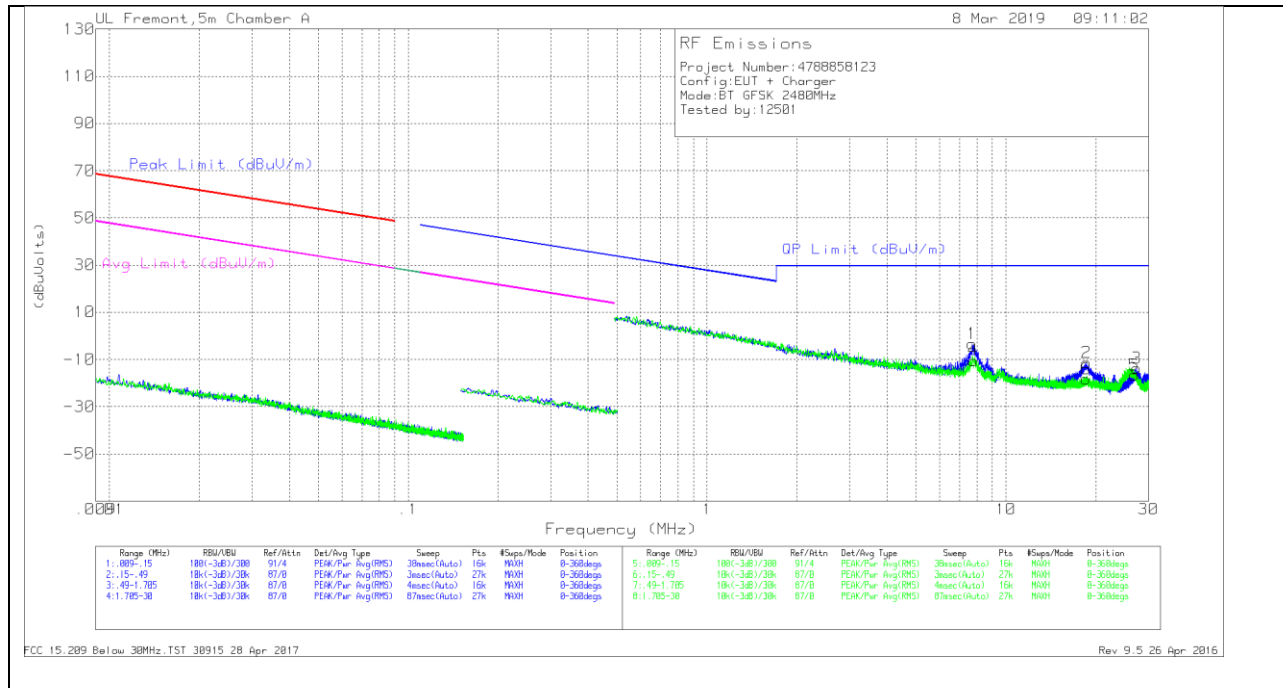
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.539	44.67	PK2	28	-24.8	47.87	-	-	74	-26.13	271	260	H
	* 1.54	32.79	MAv1	28.1	-24.8	36.09	54	-17.91	-	-	271	260	H
3	* 17.914	35.64	PK2	42	-20.3	57.34	-	-	74	-16.66	257	351	H
	* 17.914	24.13	MAv1	42	-20.3	45.83	54	-8.17	-	-	257	351	H
4	1.879	44.92	PK2	31	-24.3	51.62	-	-	-	-	242	113	V
	1.879	32.54	MAv1	31	-24.3	39.24	-	-	-	-	242	113	V
5	2.986	44.87	PK2	32.5	-22.8	54.57	-	-	-	-	302	249	V
	2.986	32.1	MAv1	32.5	-22.8	41.8	-	-	-	-	302	249	V
2	6.933	37.82	PK2	36.5	-26.7	47.62	-	-	-	-	111	160	H
	6.936	26.23	MAv1	36.5	-26.7	36.03	-	-	-	-	111	160	H
6	13.919	23.84	MAv1	39.1	-20.8	42.14	-	-	-	-	298	399	V
	13.922	35.22	PK2	39.1	-20.8	53.52	-	-	-	-	298	399	V

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

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

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

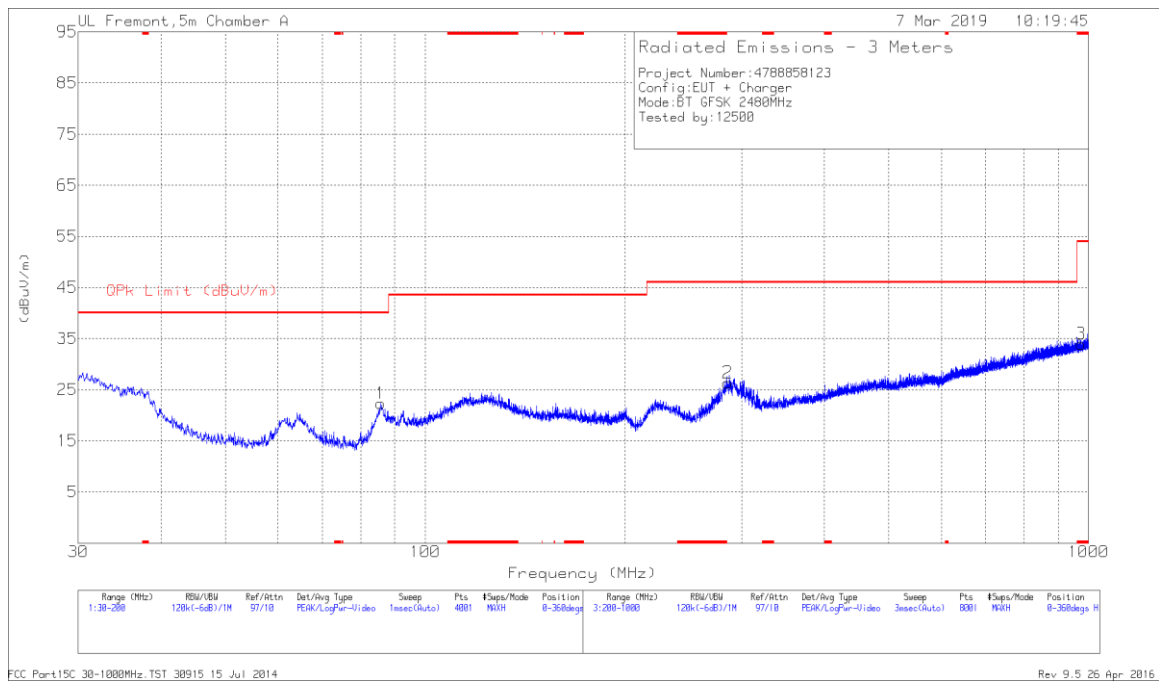
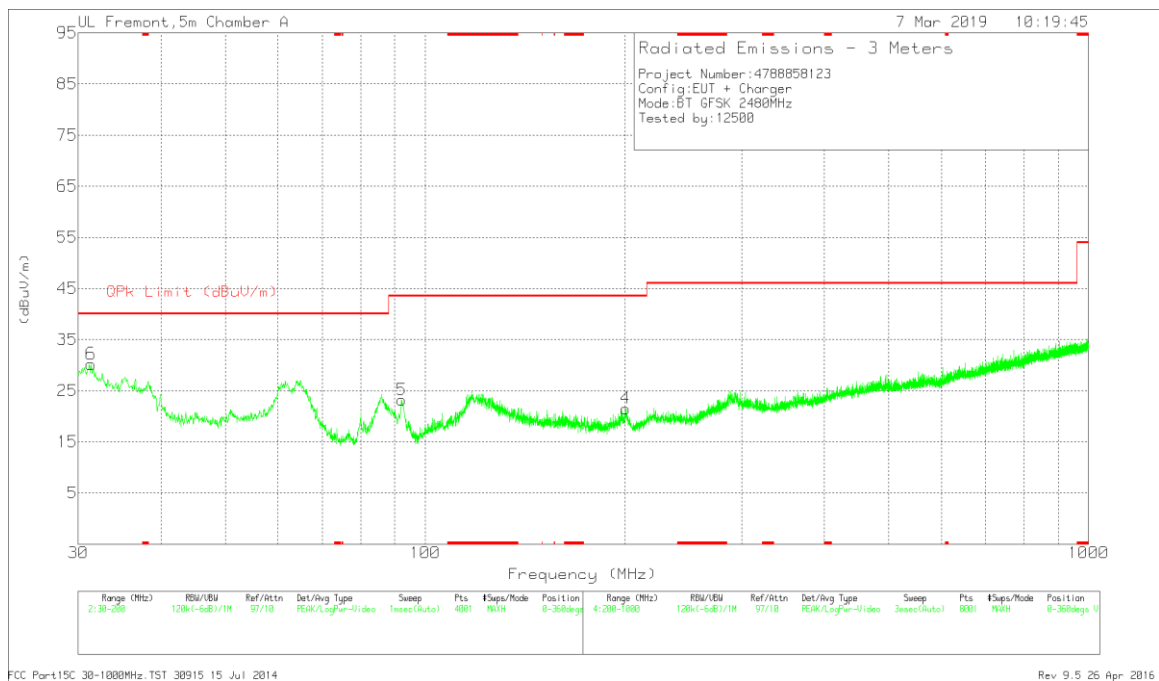
9.2. WORST CASE BELOW 30MHZ



Below 30MHz Data

Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr 30m	Corrected Reading (dBuVolts)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
7.72419	25.48	Pk	10.9	.4	-40	-3.22	29.5	-32.72	235
7.75477	19.34	Pk	10.9	.4	-40	-9.36	29.5	-38.86	26
18.4957	9.75	Pk	10.4	.6	-40	-19.25	29.5	-48.75	244
18.5584	16.99	Pk	10.3	.6	-40	-12.11	29.5	-41.61	12
26.8558	15	Pk	8.9	.7	-40	-15.4	29.5	-44.9	191
27.3813	12.6	Pk	8.8	.7	-40	-17.9	29.5	-47.4	262

Pk - Peak detector

9.3. WORST CASE BELOW 1 GHZ**HORIZONTAL****VERTICAL**

Below 1GHz Data

Markers	Frequency (MHz)	Meter Reading (dBuV)	Det	AF PRE018157 4 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 975.2838	26.33	Pk	29	-22.1	33.23	53.97	-20.74	12	177	H
6	31.1296	26.64	Qp	26.1	-27.2	25.54	40	-14.46	289	117	V
1	85.9362	31.6	Qp	13.1	-26.5	18.2	40	-21.8	183	200	H
5	92.2709	31.91	Qp	14.1	-26.4	19.61	43.52	-23.91	49	106	V
4	200.5118	22.22	Qp	18.6	-25.1	15.72	43.52	-27.8	239	102	V
2	285.7851	27.1	Qp	19.2	-24.4	21.9	46.02	-24.12	139	129	H

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

Pk - Peak detector

Qp - Quasi-Peak detector

FCC Part15C 30-1000MHz.TST 30915 15 Jul 2014

Rev 9.5 26 Apr 2016

UL EMC

7 Mar 2019 18:18:28

RF Emissions

Order Number:
Configuration: EUT only
Mode: BT Worst Case
Tested by / SN: 30606

Peak Limit (dBuV/m)

Avg Limit (dBuV/m)

Frequency (GHz)

Range (GHz)	RBW/NBW	Ref/Att'n	Det/Rng Type	Sweep	Pts	#Sps/Mode	Label
1.15-26	1M-3dB/3M	07/0	PEAK/Leg4r-Video	4-linec(Auto)	5001	None	Horizontal

UL EMC

7 Mar 2019 18:18:28

RF Emissions

Order Number:

Configuration: EUT only

Mode: BT Worst Case

Tested by / SN: 30606

Peak Limit (dBuV/m)

Avg Limit (dBuV/m)

Frequency (GHz)

Range (GHz)	RBW/MBW	Ref/AttIn	Det/Avg Type	Sweep	Pts	#Seps/Mode	Label	Range (GHz)	RBW/MBW	Ref/AttIn	Det/Avg Type	Sweep	Pts	#Seps/Mode	Label
18-26	100/300	0/0	PKA	Auto	3000	1000	Vertical	18-26	100/300	0/0	PKA	Auto	3000	1000	Vertical

Rev 9.5 19 Oct 2015

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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	18.818	38.24	Pk	32.4	-24.9	-9.5	36.24	54	-17.76	74	-37.76
2	20.448	37.83	Pk	32.9	-25.1	-9.5	36.13	54	-17.87	74	-37.87
3	23.424	38.44	Pk	34	-24.4	-9.5	38.54	54	-15.46	74	-35.46
4	18.758	38.07	Pk	32.4	-24.7	-9.5	36.27	54	-17.73	74	-37.73
5	21.536	38.55	Pk	33.1	-25.2	-9.5	36.95	54	-17.05	74	-37.05
6	23.86	38.35	Pk	34.2	-24.1	-9.5	38.95	54	-15.05	74	-35.05

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 (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

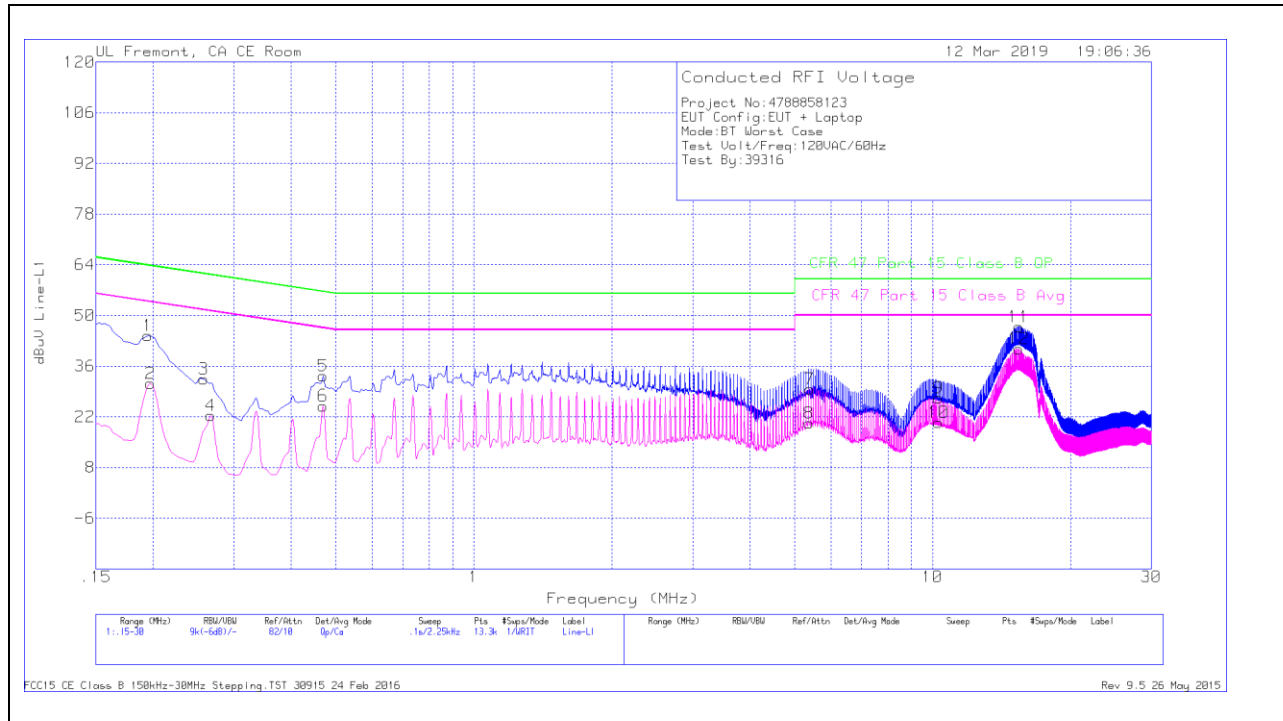
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

10.1. AC Power Line Host

LINE 1 RESULTS



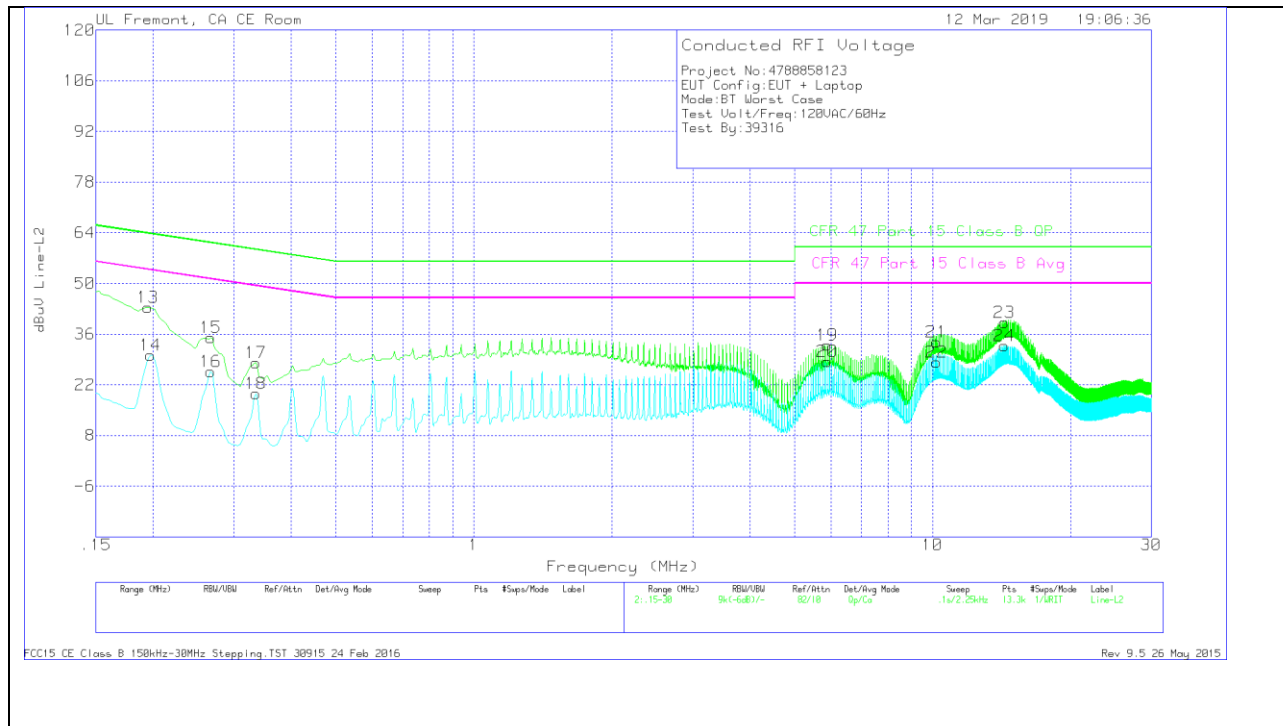
DATA

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	34.31	Qp	0	0	10.1	44.41	63.82	-19.41	-	-
2	.19725	21.13	Ca	0	0	10.1	31.23	-	-	53.73	-22.5
3	.258	22.33	Qp	0	0	10.1	32.43	61.5	-29.07	-	-
4	.267	12.23	Ca	0	0	10.1	22.33	-	-	51.21	-28.88
5	.4695	23.2	Qp	0	0	10.1	33.3	56.52	-23.22	-	-
6	.4695	14.95	Ca	0	0	10.1	25.05	-	-	46.52	-21.47
7	5.40375	19.47	Qp	0	.1	10.1	29.67	60	-30.33	-	-
8	5.388	10.04	Ca	0	.1	10.1	20.24	-	-	50	-29.76
9	10.29075	16.87	Qp	0	.2	10.2	27.27	60	-32.73	-	-
10	10.31325	10.05	Ca	0	.2	10.2	20.45	-	-	50	-29.55
11	15.42075	36.25	Qp	.1	.3	10.2	46.85	60	-13.15	-	-
12	15.42075	30.12	Ca	.1	.3	10.2	40.72	-	-	50	-9.28

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



DATA

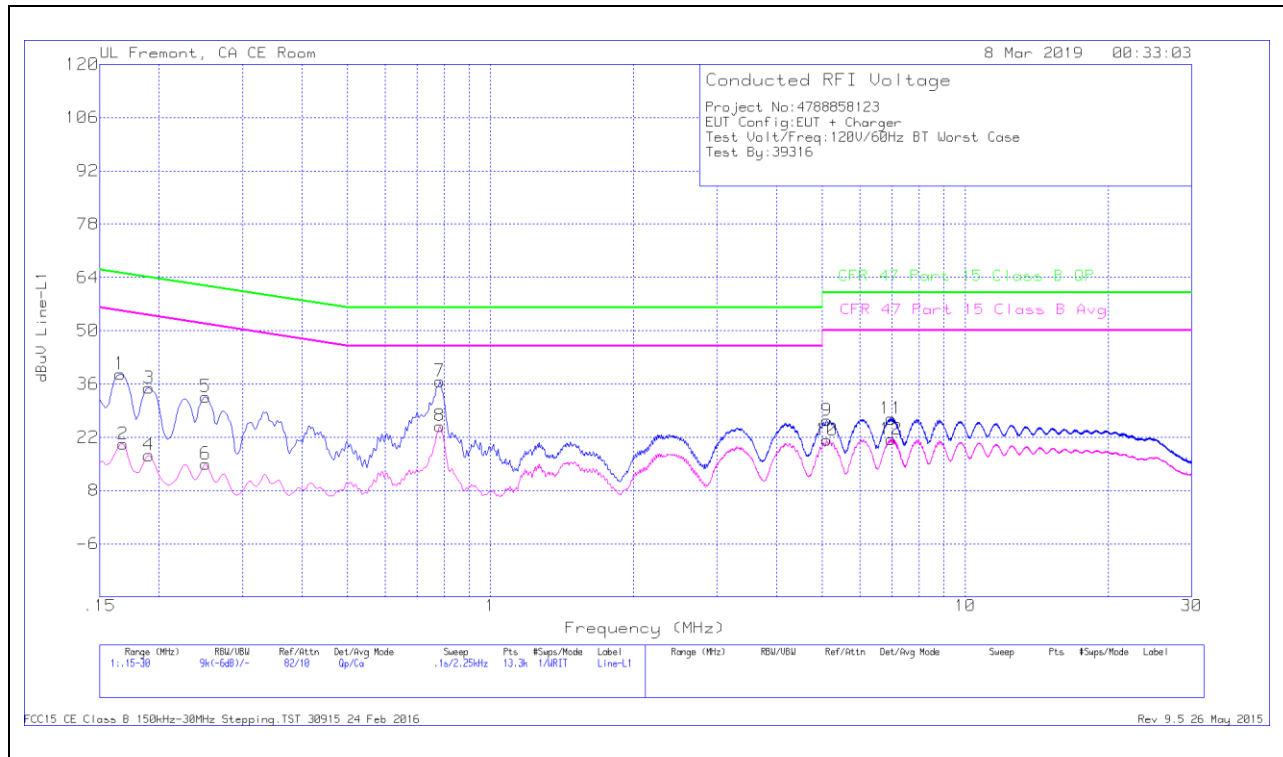
Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
13	.195	33.28	Qp	0	0	10.1	43.38	63.82	-20.44	-	-
14	.19725	20.03	Ca	0	0	10.1	30.13	-	-	53.73	-23.6
15	.267	24.97	Qp	0	0	10.1	35.07	61.21	-26.14	-	-
16	.267	15.58	Ca	0	0	10.1	25.68	-	-	51.21	-25.53
17	.3345	18.03	Qp	0	0	10.1	28.13	59.34	-31.21	-	-
18	.3345	9.44	Ca	0	0	10.1	19.54	-	-	49.34	-29.8
19	5.89875	22.63	Qp	0	.2	10.2	33.03	60	-26.97	-	-
20	5.89875	18.08	Ca	0	.2	10.2	28.48	-	-	50	-21.52
21	10.19175	23.46	Qp	0	.2	10.2	33.86	60	-26.14	-	-
22	10.19175	17.85	Ca	0	.2	10.2	28.25	-	-	50	-21.75
23	14.343	28.68	Qp	.1	.3	10.2	39.28	60	-20.72	-	-
24	14.343	22.15	Ca	.1	.3	10.2	32.75	-	-	50	-17.25

Qp - Quasi-Peak detector

Ca - CISPR average detection

10.2. AC Power Line Norm

LINE 1 RESULTS

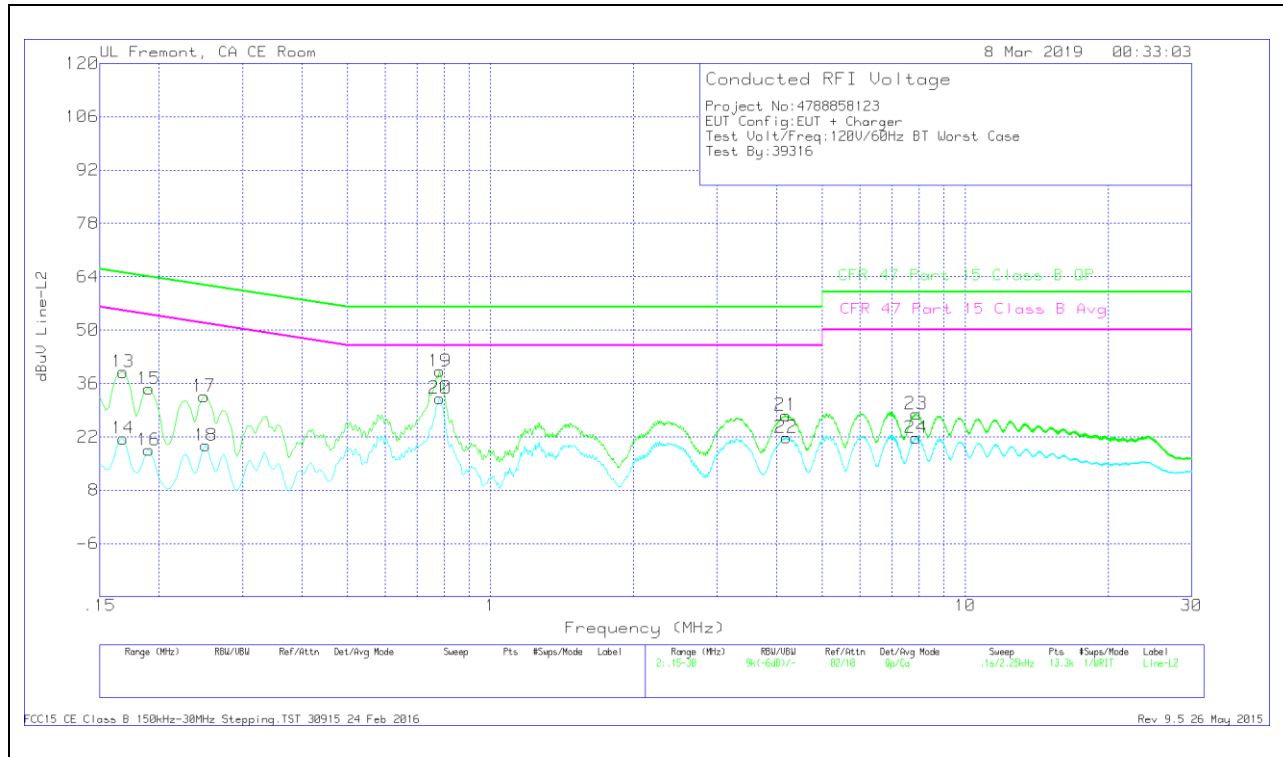


Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
1	.16125	43.04	Qp	.1	0	10.1	53.24	65.4	-12.16	-	-
2	.16125	29.64	Ca	.1	0	10.1	39.84	-	-	55.4	-15.56
3	.24	36.64	Qp	0	0	10.1	46.74	62.1	-15.36	-	-
4	.24225	21.85	Ca	0	0	10.1	31.95	-	-	52.02	-20.07
5	.321	33.39	Qp	0	0	10.1	43.49	59.68	-16.19	-	-
6	.32325	17.3	Ca	0	0	10.1	27.4	-	-	49.62	-22.22
7	.65175	27.12	Qp	0	0	10.1	37.22	56	-18.78	-	-
8	.65175	12.79	Ca	0	0	10.1	22.89	-	-	46	-23.11
9	.80025	26.56	Qp	0	0	10.1	36.66	56	-19.34	-	-
10	.8025	11.89	Ca	0	0	10.1	21.99	-	-	46	-24.01
11	3.90075	19.53	Qp	0	.1	10.1	29.73	56	-26.27	-	-
12	3.89513	11.97	Ca	0	.1	10.1	22.17	-	-	46	-23.83

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
13	.16125	38.58	Qp	.1	0	10.1	48.78	65.4	-16.62	-	-
14	.16125	24.65	Ca	.1	0	10.1	34.85	-	-	55.4	-20.55
15	.23775	34.33	Qp	0	0	10.1	44.43	62.17	-17.74	-	-
16	.24	19.51	Ca	0	0	10.1	29.61	-	-	52.1	-22.49
17	.31875	31.37	Qp	0	0	10.1	41.47	59.74	-18.27	-	-
18	.321	16.64	Ca	0	0	10.1	26.74	-	-	49.68	-22.94
19	.555	26.17	Qp	0	0	10.1	36.27	56	-19.73	-	-
20	.55725	13.55	Ca	0	0	10.1	23.65	-	-	46	-22.35
21	.95325	24.21	Qp	0	.1	10.1	34.41	56	-21.59	-	-
22	.95325	12.9	Ca	0	.1	10.1	23.1	-	-	46	-22.9
23	7.152	21.67	Qp	0	.2	10.2	32.07	60	-27.93	-	-
24	7.152	13.14	Ca	0	.2	10.2	23.54	-	-	50	-26.46

Qp - Quasi-Peak detector

Ca - CISPR average detection

END OF TEST REPORT

11. SETUP PHOTOS

Please refer to 12696946-EP1V1 for setup photos