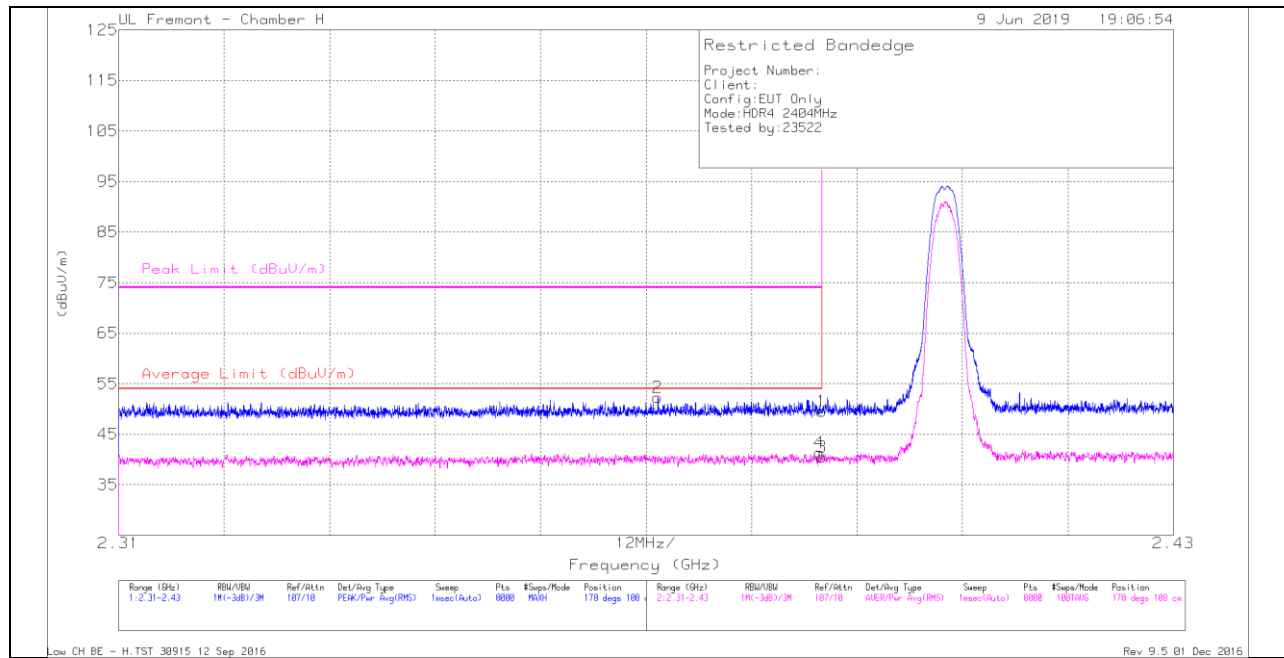


Antenna 5**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.47	Pk	31.6	-23.5	49.57	-	-	74	-24.43	178	108	H
2	* 2.371	44.28	Pk	31.5	-23.5	52.28	-	-	74	-21.72	178	108	H
3	* 2.39	32.42	RMS	31.6	-23.5	40.52	54	-13.48	-	-	178	108	H
4	* 2.39	33.21	RMS	31.6	-23.5	41.31	54	-12.69	-	-	178	108	H

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

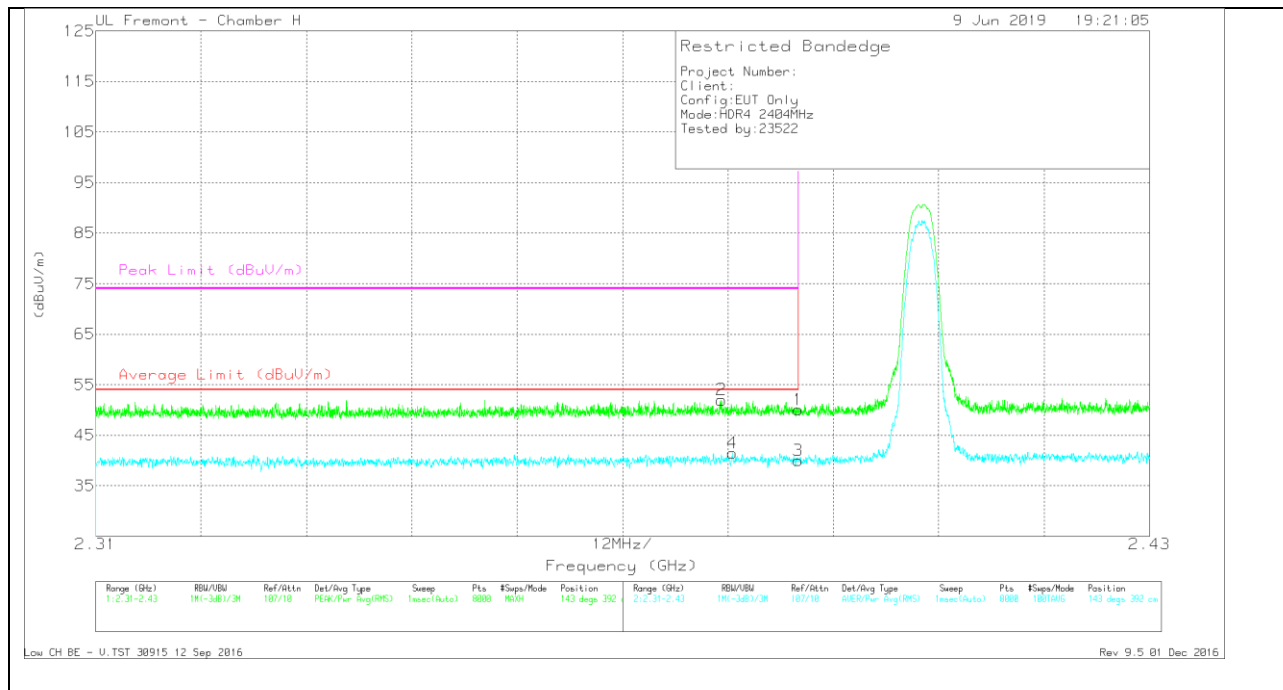
Pk - Peak detector

RMS - RMS detection

Low CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.96	Pk	31.6	-23.5	50.06	-	-	74	-23.94	143	392	V
2	* 2.381	43.87	Pk	31.6	-23.5	51.97	-	-	74	-22.03	143	392	V
3	* 2.39	31.88	RMS	31.6	-23.5	39.98	54	-14.02	-	-	143	392	V
4	* 2.383	33.32	RMS	31.6	-23.5	41.42	54	-12.58	-	-	143	392	V

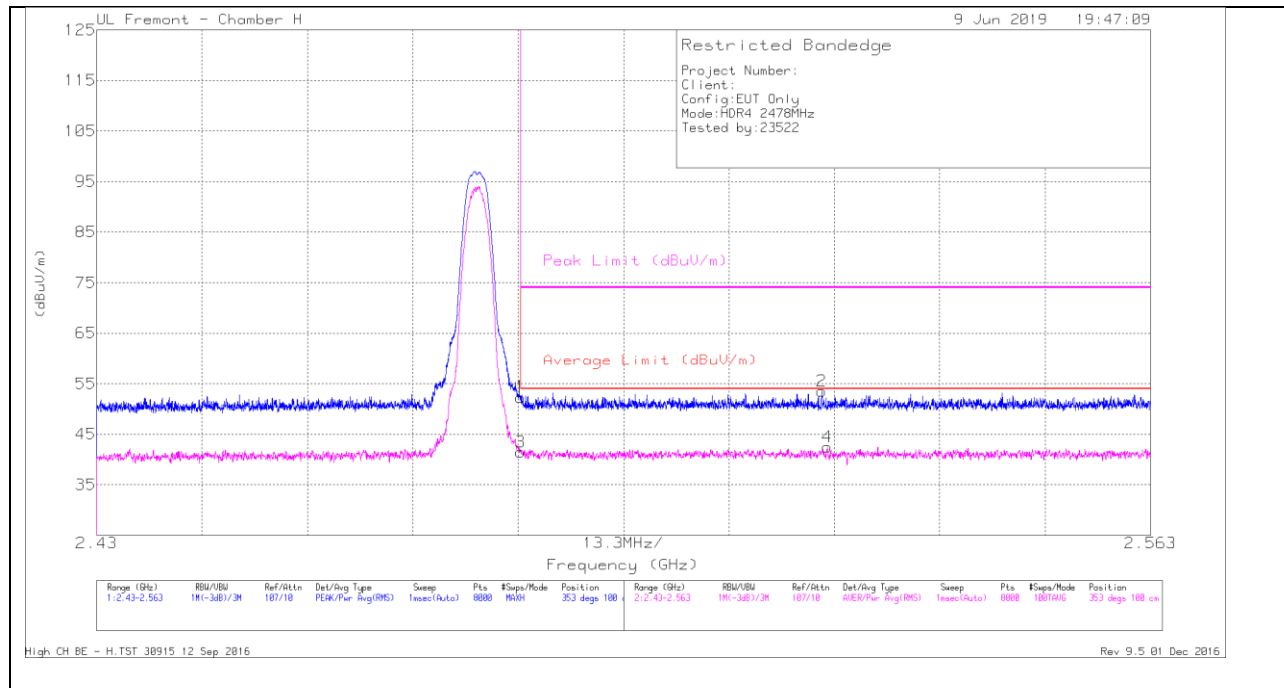
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

Low CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT136 (dB/m)	Amp/Cbl/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.34	Pk	32.3	-23.3	52.34	-	-	74	-21.66	353	100	H
3	* 2.484	32.47	RMS	32.3	-23.3	41.47	54	-12.53	-	-	353	100	H
2	2.521	44.46	Pk	32.3	-23.2	53.56	-	-	74	-20.44	353	100	H
4	2.522	33.41	RMS	32.3	-23.2	42.51	54	-11.49	-	-	353	100	H

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

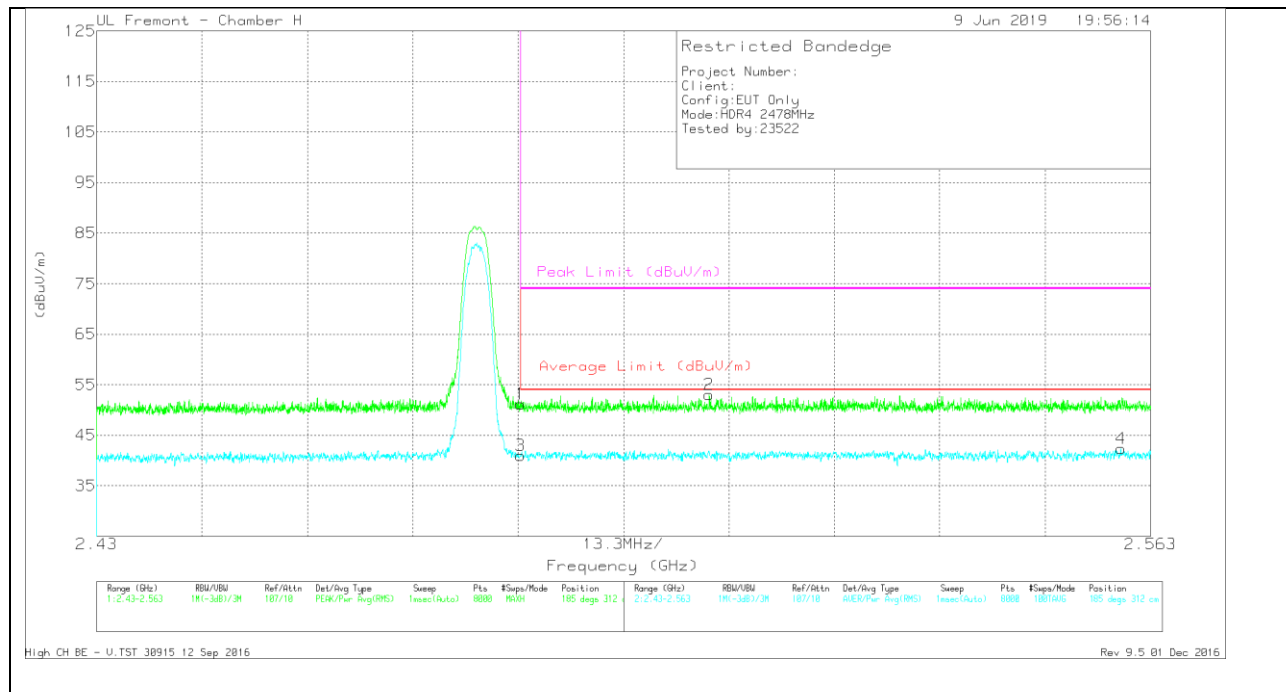
Pk - Peak detector

RMS - RMS detection

High CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT136 (dB/m)	Amp/Cbl/Filtz/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	42.17	Pk	32.3	-23.3	51.17	-	-	74	-22.83	185	312	V
3	* 2.484	31.93	RMS	32.3	-23.3	40.93	54	-13.07	-	-	185	312	V
2	2.507	43.79	Pk	32.4	-23.2	52.99	-	-	74	-21.01	185	312	V
4	2.559	33.01	RMS	32.4	-23.1	42.31	54	-11.69	-	-	185	312	V

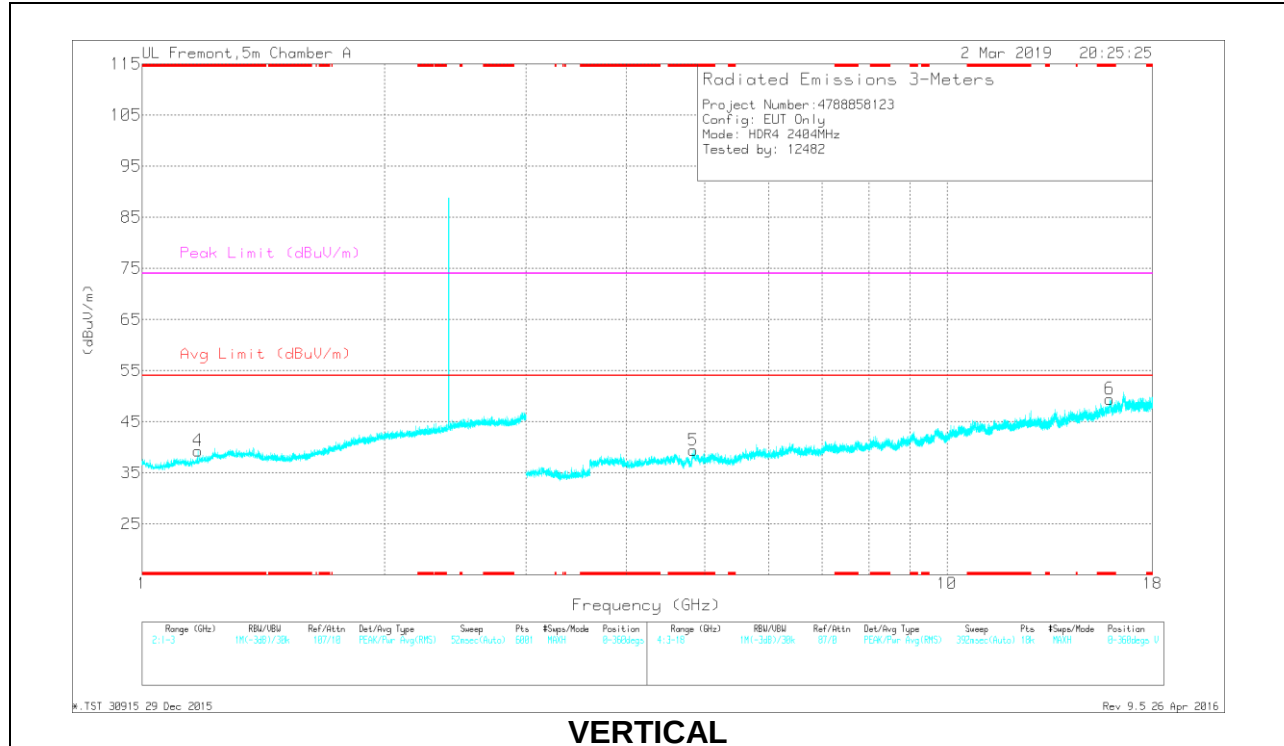
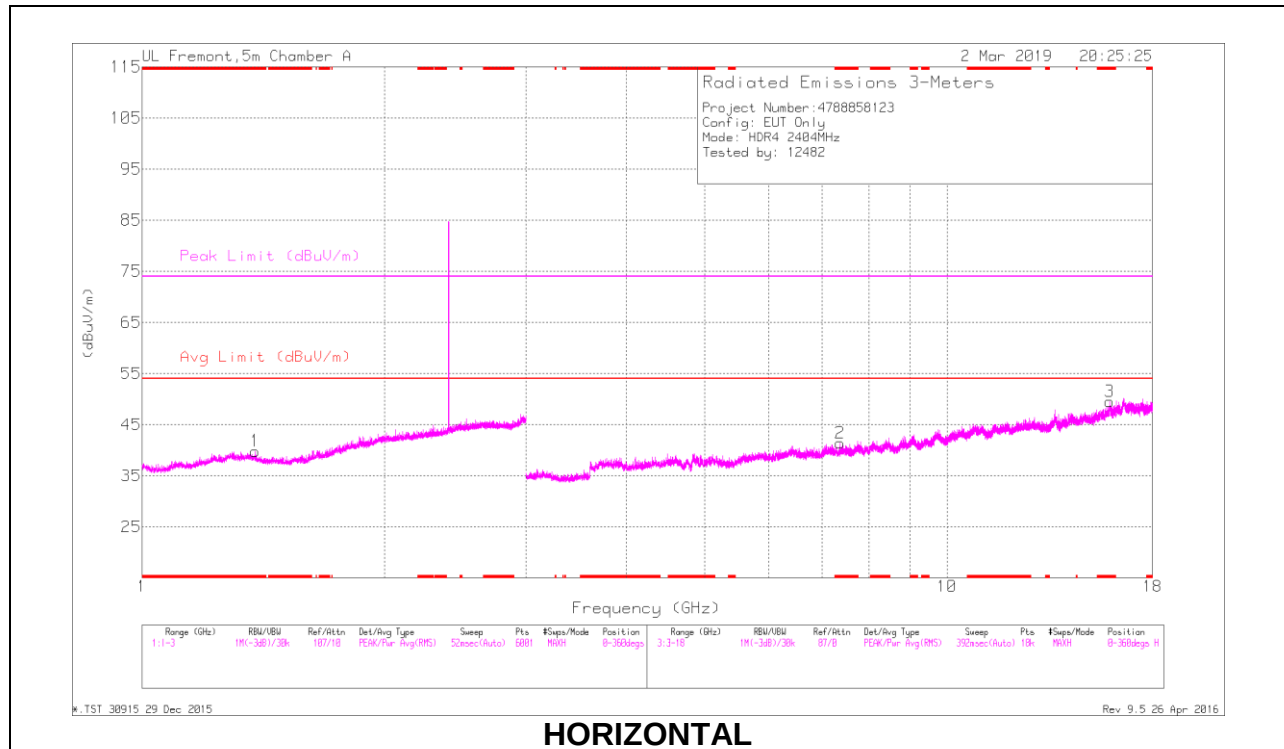
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL RESULTS**

RADIATED EMISSIONS

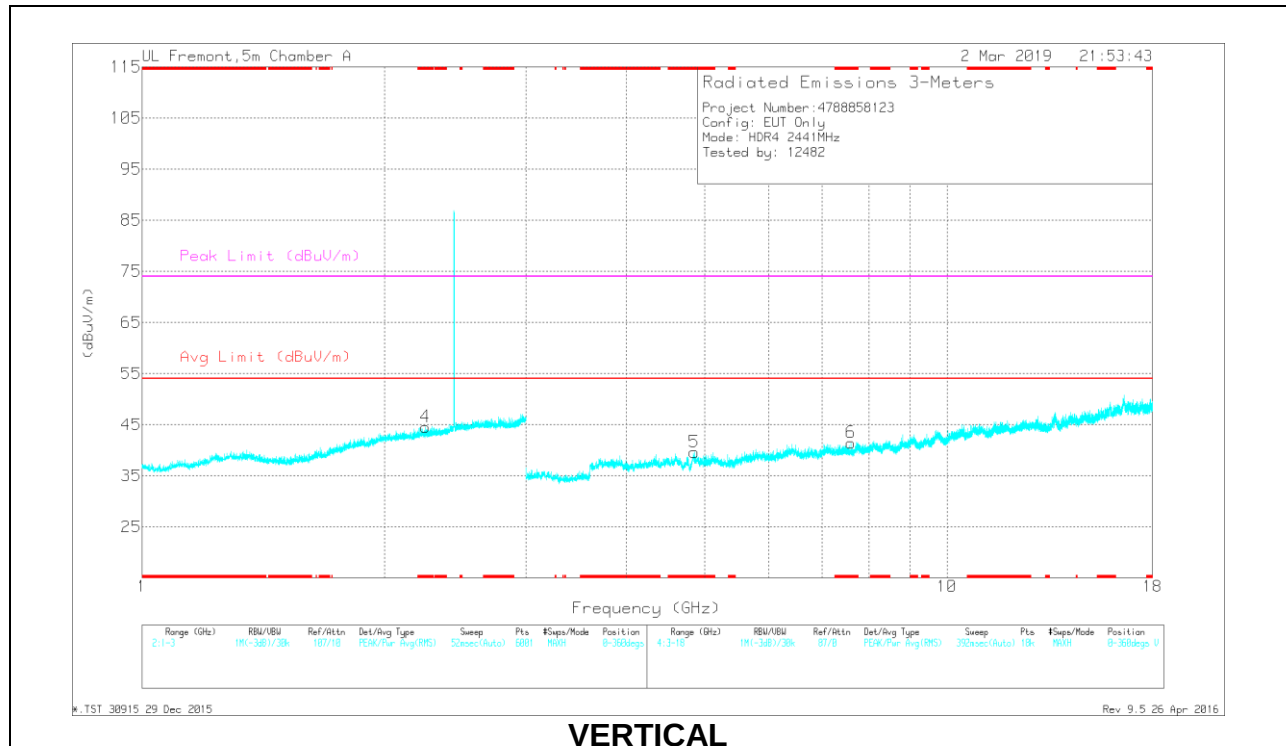
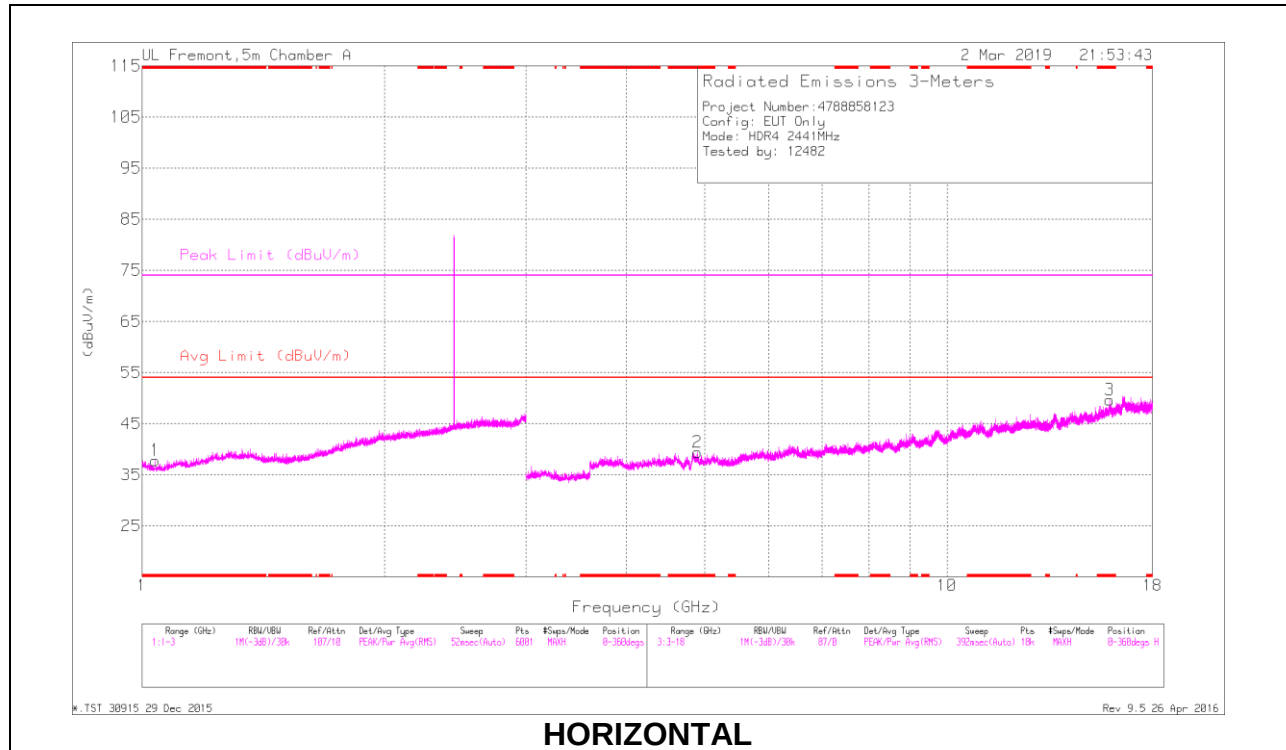
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.383	41.84	PK2	28.9	-25	45.74	-	-	74	-28.26	135	377	H
	* 1.382	30.67	MAV1	28.9	-24.9	34.67	54	-19.33	-	-	135	377	H
4	* 1.173	42.73	PK2	27.7	-25	45.43	-	-	74	-28.57	36	221	V
	* 1.173	31.58	MAV1	27.7	-25	34.28	54	-19.72	-	-	36	221	V
2	* 7.362	35	PK2	35.6	-23.8	46.8	-	-	74	-27.2	257	166	H
	* 7.361	24.13	MAV1	35.6	-23.9	35.83	54	-18.17	-	-	257	166	H
3	* 15.932	32.66	PK2	40.8	-17.7	55.76	-	-	74	-18.24	354	115	H
	* 15.934	22.95	MAV1	40.9	-17.8	46.05	54	-7.95	-	-	354	115	H
5	* 4.838	37.86	PK2	34.2	-26.9	45.16	-	-	74	-28.84	33	204	V
	* 4.84	27.52	MAV1	34.1	-26.9	34.72	54	-19.28	-	-	33	204	V
6	* 15.918	32.38	PK2	40.9	-17.9	55.38	-	-	74	-18.62	8	143	V
	* 15.917	22.64	MAV1	40.9	-17.9	45.64	54	-8.36	-	-	8	143	V

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

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



RADIATED EMISSIONS

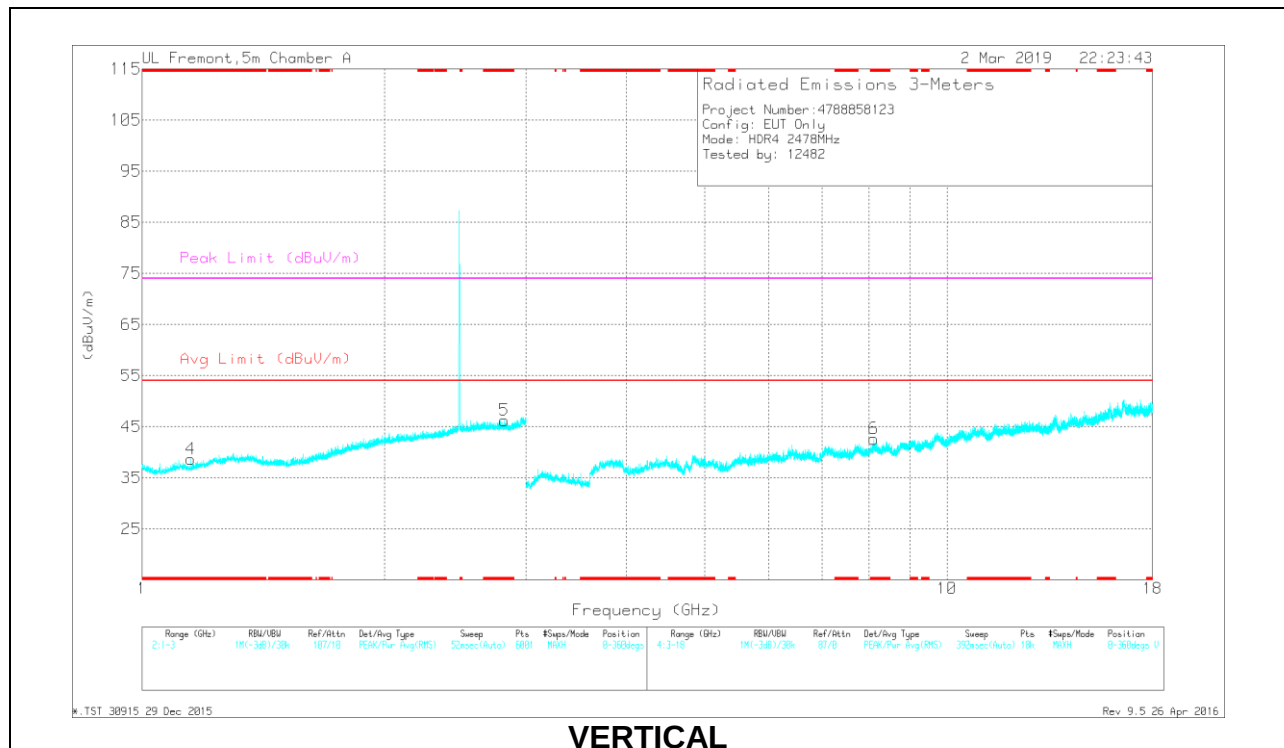
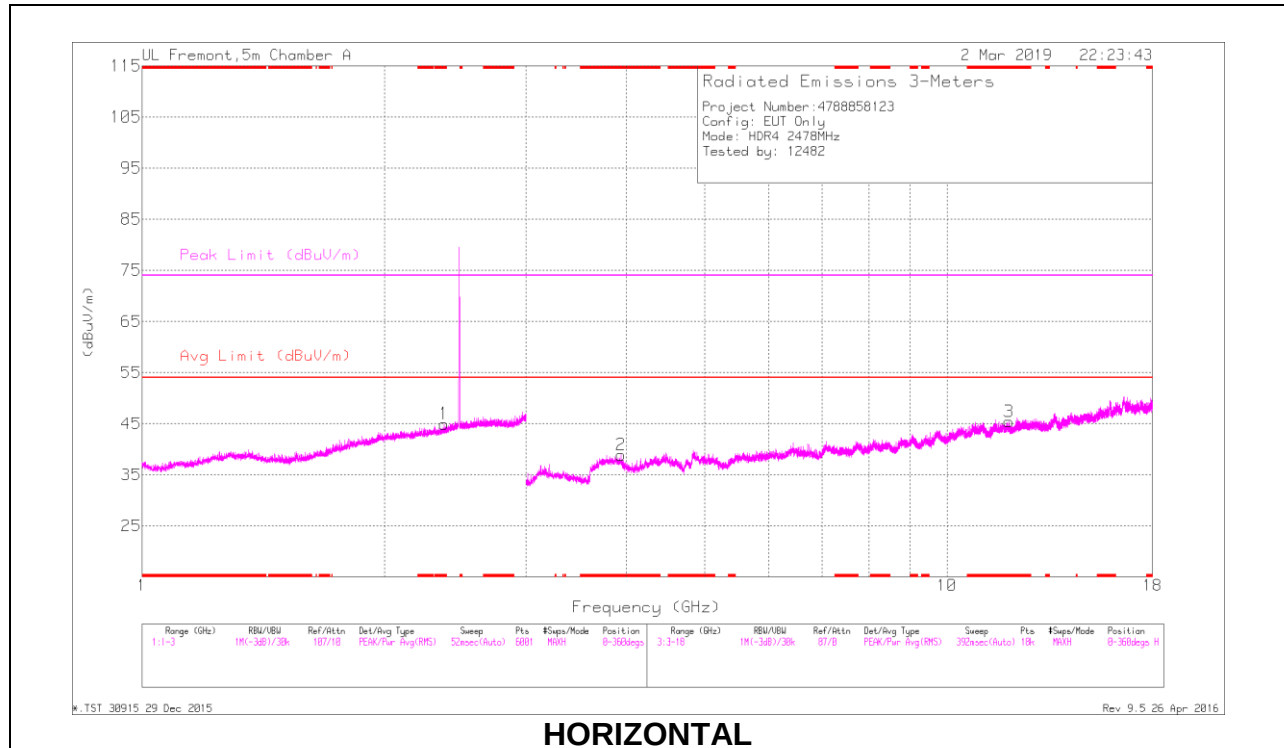
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.04	42.96	PK2	27.1	-25.6	44.46	-	-	74	-29.54	192	266	H
	* 1.039	31.13	MAV1	27.1	-25.6	32.63	54	-21.37	-	-	192	266	H
4	* 2.252	42.23	PK2	31.6	-22.8	51.03	-	-	74	-22.97	303	110	V
	* 2.25	31.06	MAV1	31.6	-22.8	39.86	54	-14.14	-	-	303	110	V
2	* 4.899	37.82	PK2	34.1	-27.1	44.82	-	-	74	-29.18	343	211	H
	* 4.898	26.89	MAV1	34.1	-27.1	33.89	54	-20.11	-	-	343	211	H
3	* 15.929	32.59	PK2	40.9	-17.6	55.89	-	-	74	-18.11	235	121	H
	* 15.932	22.16	MAV1	40.9	-17.7	45.36	54	-8.64	-	-	235	121	H
5	* 4.855	38.16	PK2	34.1	-27.1	45.16	-	-	74	-28.84	70	179	V
	* 4.855	28.11	MAV1	34.1	-27.1	35.11	54	-18.89	-	-	70	179	V
6	* 7.597	35.1	PK2	35.7	-24.1	46.7	-	-	74	-27.3	62	117	V
	* 7.596	24.39	MAV1	35.7	-24.1	35.99	54	-18.01	-	-	62	117	V

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

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL RESULTS



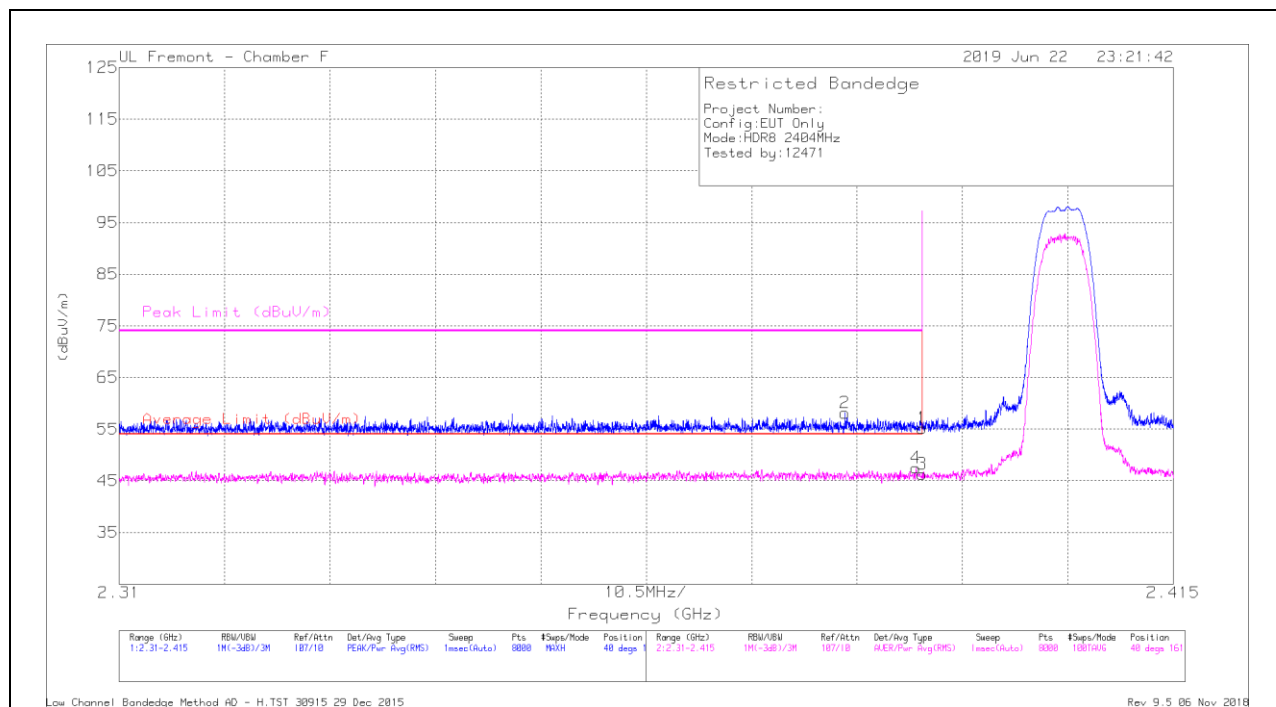
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.371	42.21	PK2	31.9	-22.9	51.21	-	-	74	-22.79	234	162	H
	* 2.372	30.69	MAV1	31.9	-22.9	39.69	54	-14.31	-	-	234	162	H
4	* 1.15	42.25	PK2	27.5	-25.1	44.65	-	-	74	-29.35	6	120	V
	* 1.152	31.4	MAV1	27.5	-25.1	33.8	54	-20.2	-	-	6	120	V
5	* 2.819	42.48	PK2	32.4	-22.1	52.78	-	-	74	-21.22	156	176	V
	* 2.819	31.07	MAV1	32.4	-22.1	41.37	54	-12.63	-	-	156	176	V
2	* 3.937	40.02	PK2	33.6	-28.8	44.82	-	-	74	-29.18	228	153	H
	* 3.935	28.86	MAV1	33.6	-28.8	33.66	54	-20.34	-	-	228	153	H
3	* 11.935	32.43	PK2	38.7	-20.1	51.03	-	-	74	-22.97	24	223	H
	* 11.936	22.77	MAV1	38.7	-20.1	41.37	54	-12.63	-	-	24	223	H
6	* 8.111	34.47	PK2	35.8	-22.2	48.07	-	-	74	-25.93	321	182	V
	* 8.112	23.71	MAV1	35.8	-22.2	37.31	54	-16.69	-	-	321	182	V

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

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

9.2.4. LOW POWER HDR (HDR8)**Antenna 2****BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

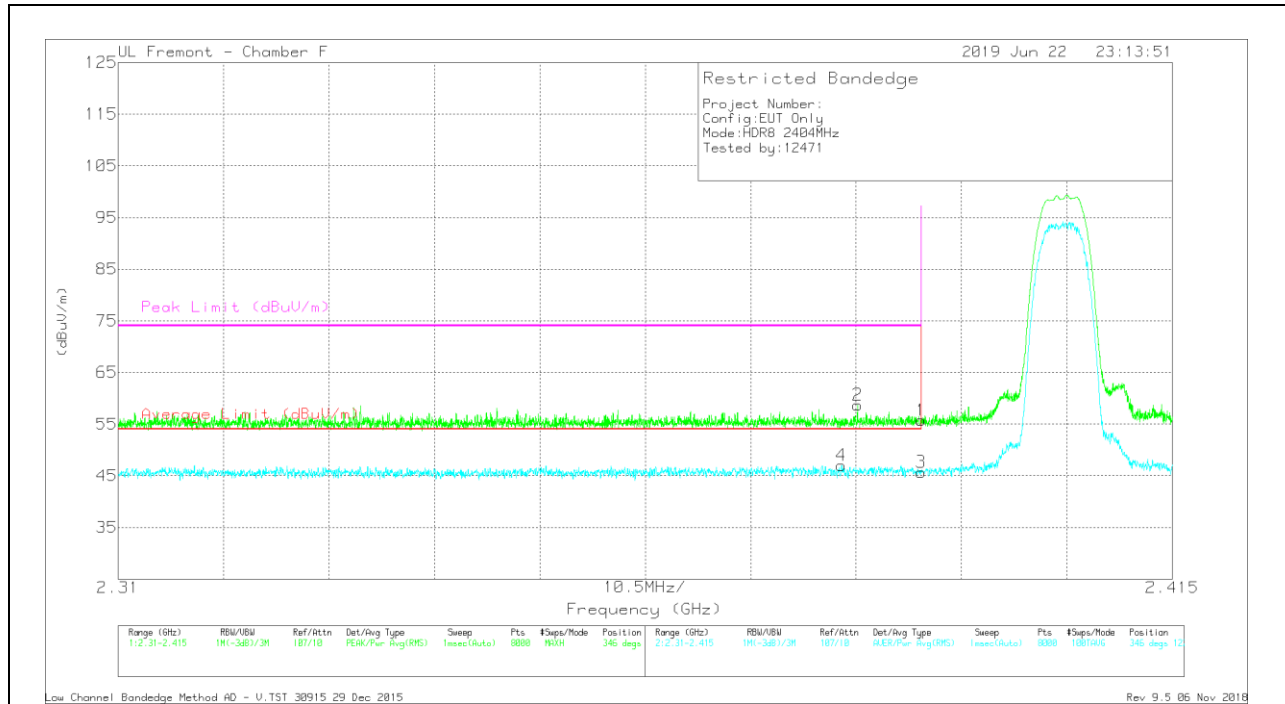
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.7	Pk	32	-14.5	55.2	-	-	74	-18.8	40	161	H
2	* 2.382	40.74	Pk	31.9	-14.5	58.14	-	-	74	-15.86	40	161	H
3	* 2.39	28.79	RMS	32	-14.5	46.29	54	-7.71	-	-	40	161	H
4	* 2.389	29.98	RMS	32	-14.5	47.48	54	-6.52	-	-	40	161	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

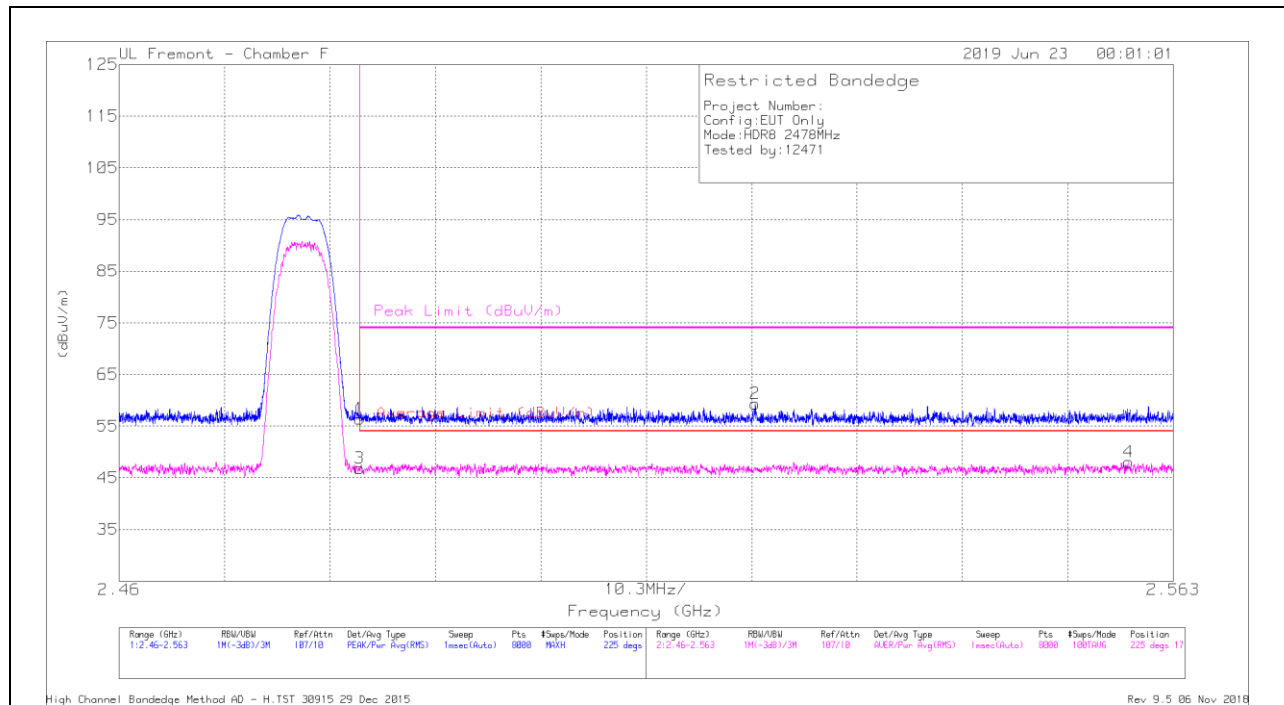


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.24	Pk	32	-14.5	55.74	-	-	74	-18.26	346	122	V
2	* 2.384	41.29	Pk	31.9	-14.5	58.69	-	-	74	-15.31	346	122	V
3	* 2.39	28.18	RMS	32	-14.5	45.68	54	-8.32	-	-	346	122	V
4	* 2.382	29.61	RMS	31.9	-14.5	47.01	54	-6.99	-	-	346	122	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

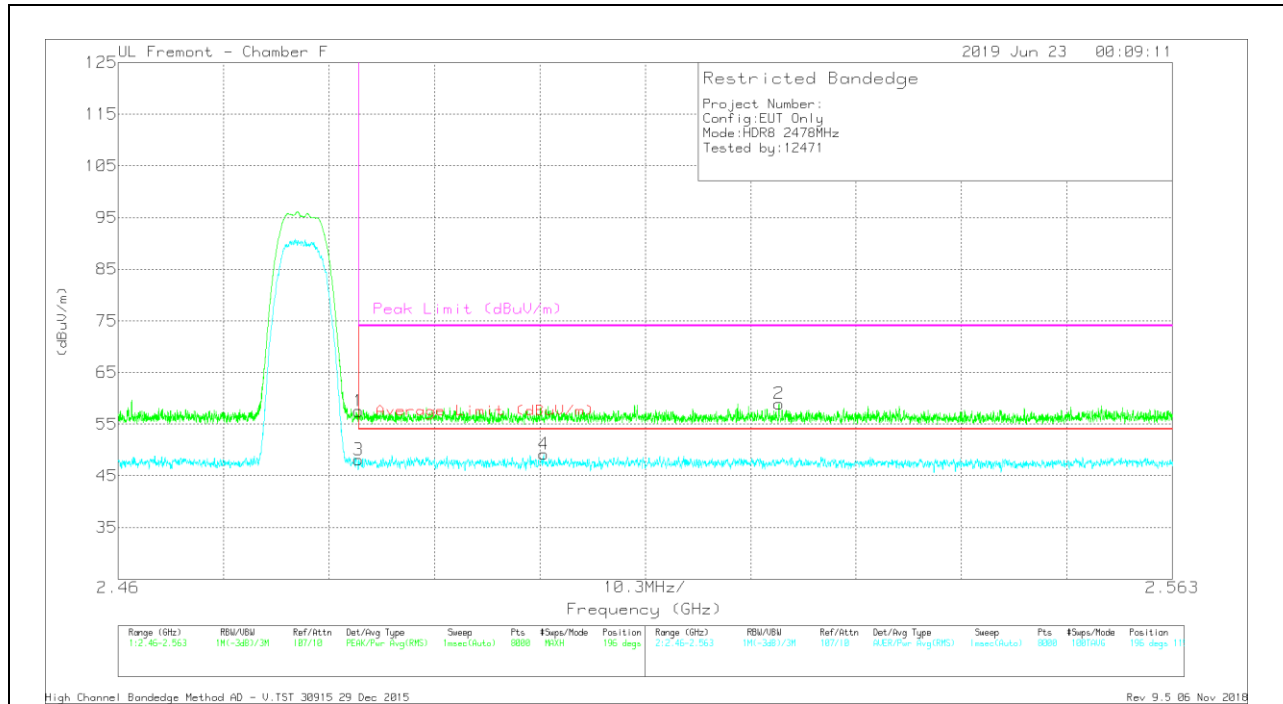
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Filtr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.7	Pk	32.4	-14.7	56.4	-	-	74	-17.6	225	171	H
2	2.522	41.55	Pk	32.3	-14.5	59.35	-	-	74	-14.65	225	171	H
3	* 2.484	29.12	RMS	32.4	-14.7	46.82	54	-7.18	-	-	225	171	H
4	2.559	30.14	RMS	32.4	-14.5	48.04	54	-5.96	-	-	225	171	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

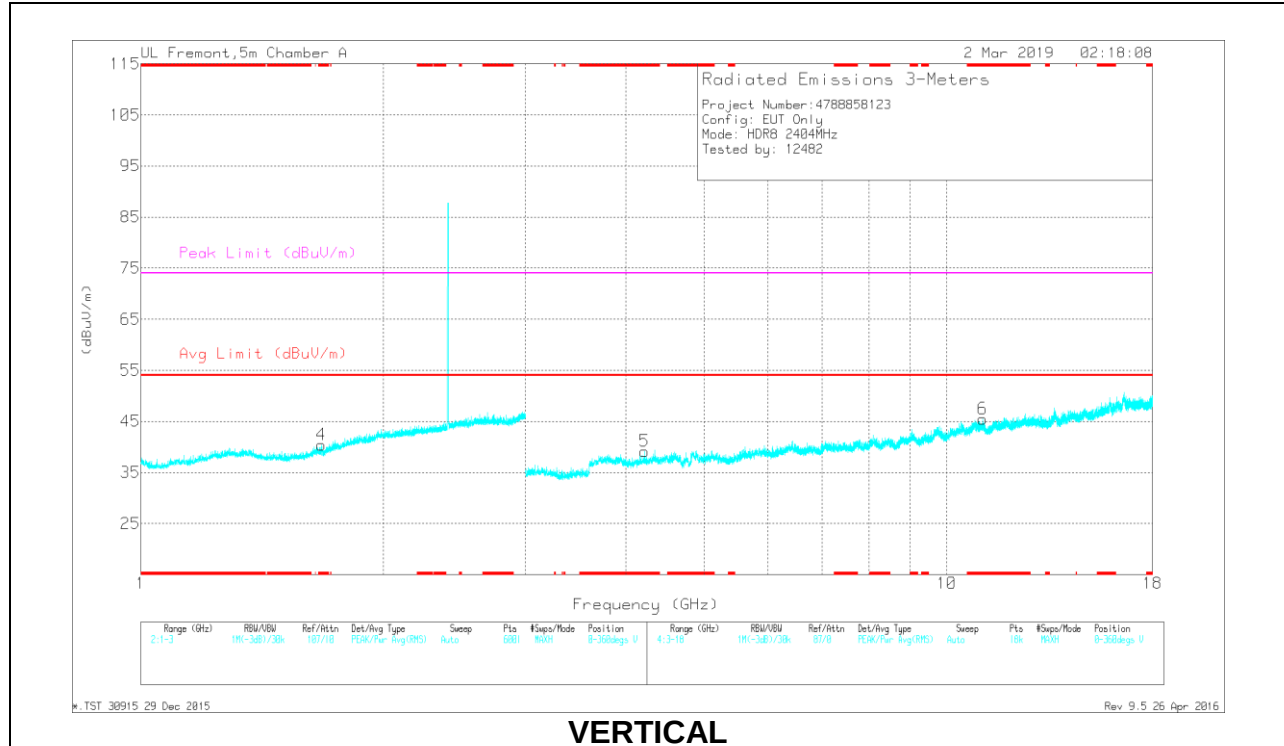
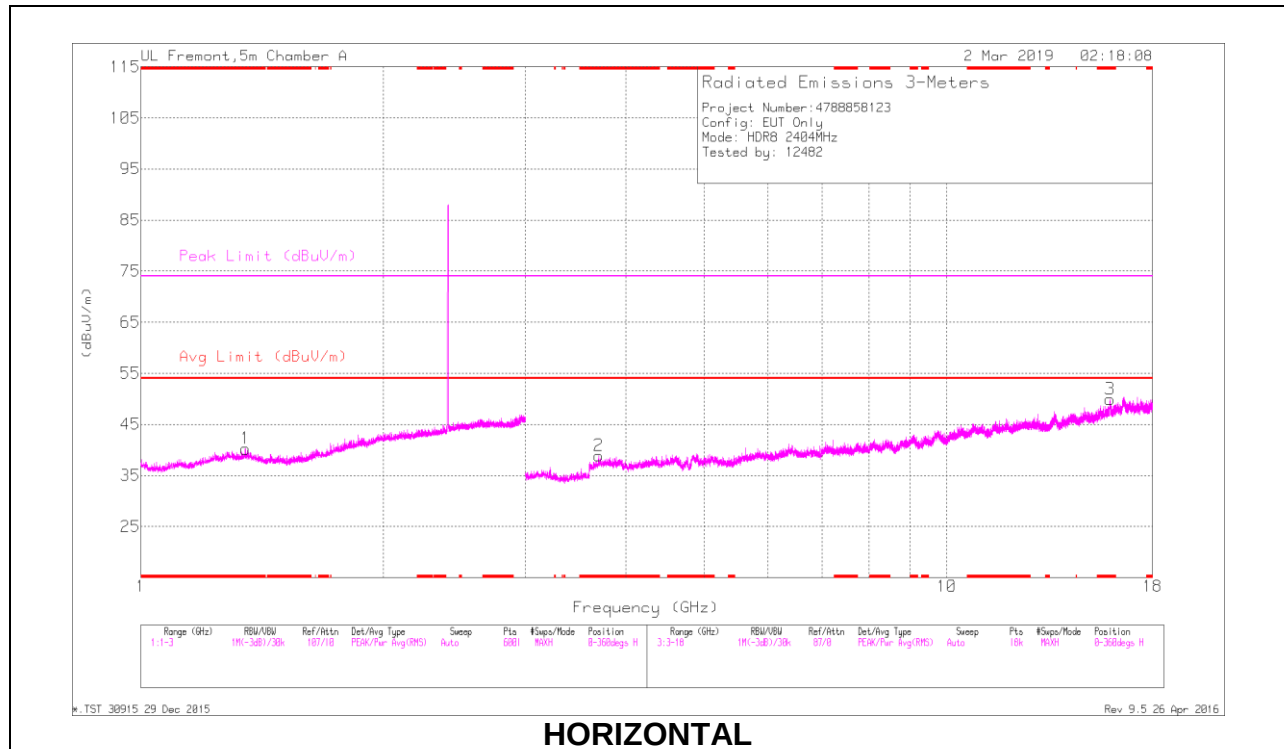


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.83	Pk	32.4	-14.7	57.53	-	-	74	-16.47	196	115	V
2	2.525	41.07	Pk	32.4	-14.5	58.97	-	-	74	-15.03	196	115	V
3	* 2.484	30.39	RMS	32.4	-14.7	48.09	54	-5.91	-	-	196	115	V
4	2.502	31.49	RMS	32.4	-14.7	49.19	54	-4.81	-	-	196	115	V

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

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL RESULTS**

RADIATED EMISSIONS

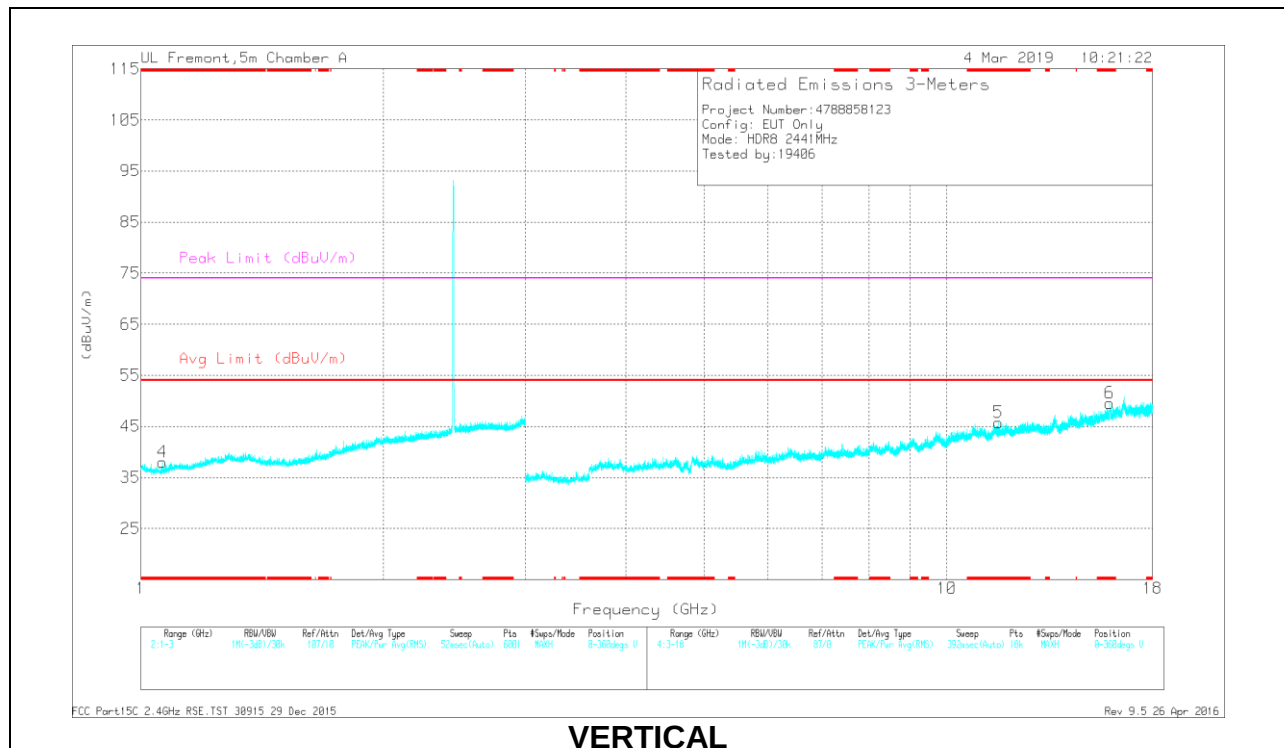
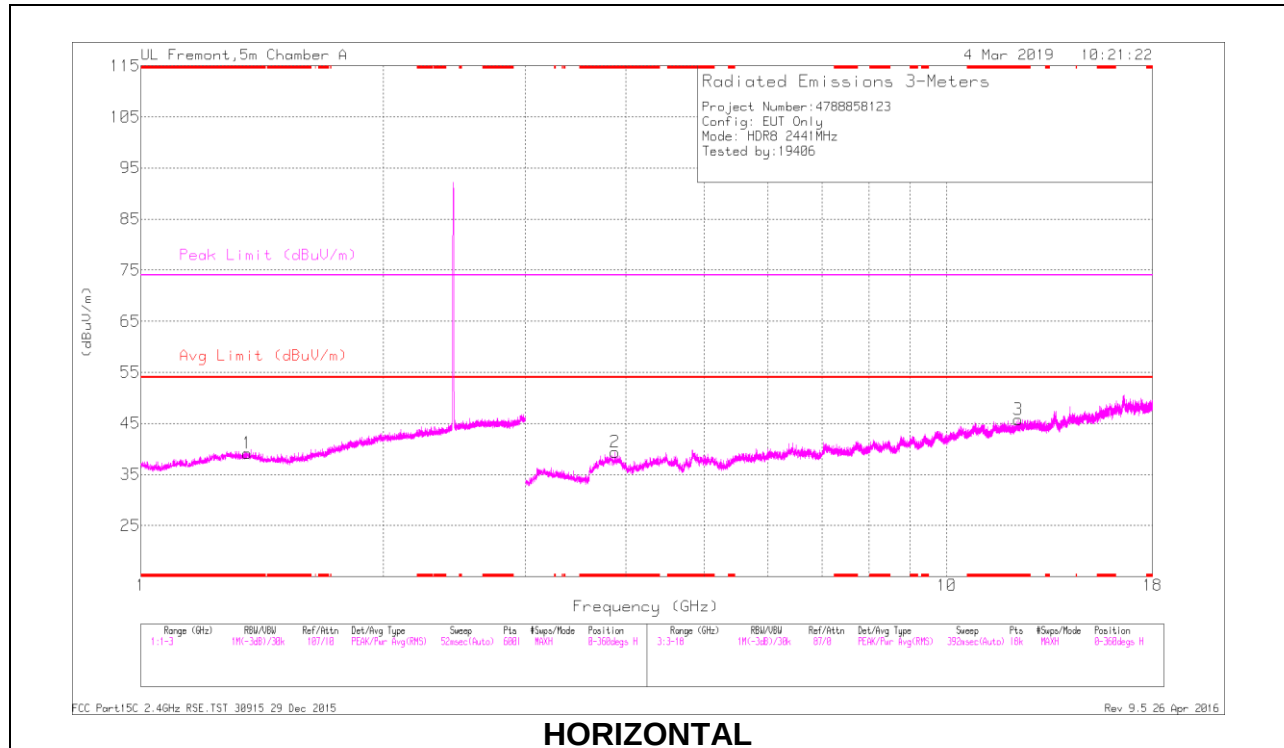
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.347	41.79	PK2	29.1	-25	45.89	-	-	74	-28.11	153	142	H
	* 1.346	30.91	MAV1	29	-25	34.91	54	-19.09	-	-	153	142	H
4	* 1.675	41.94	PK2	28.8	-23.9	46.84	-	-	74	-27.16	186	185	V
	* 1.674	31.56	MAV1	28.7	-24	36.26	54	-17.74	-	-	186	185	V
2	* 3.7	39.39	PK2	33.1	-28.6	43.89	-	-	74	-30.11	360	109	H
	* 3.698	28.91	MAV1	33.1	-28.7	33.31	54	-20.69	-	-	360	109	H
3	* 15.941	32.86	PK2	40.8	-17.8	55.86	-	-	74	-18.14	152	195	H
	* 15.94	22.24	MAV1	40.8	-17.7	45.34	54	-8.66	-	-	152	195	H
5	* 4.218	38.55	PK2	33.7	-28.4	43.85	-	-	74	-30.15	252	268	V
	* 4.217	28.08	MAV1	33.7	-28.4	33.38	54	-20.62	-	-	252	268	V
6	* 11.077	33.33	PK2	37.9	-20.1	51.13	-	-	74	-22.87	191	344	V
	* 11.078	23.2	MAV1	37.9	-20.1	41	54	-13	-	-	191	344	V

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

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



RADIATED EMISSIONS

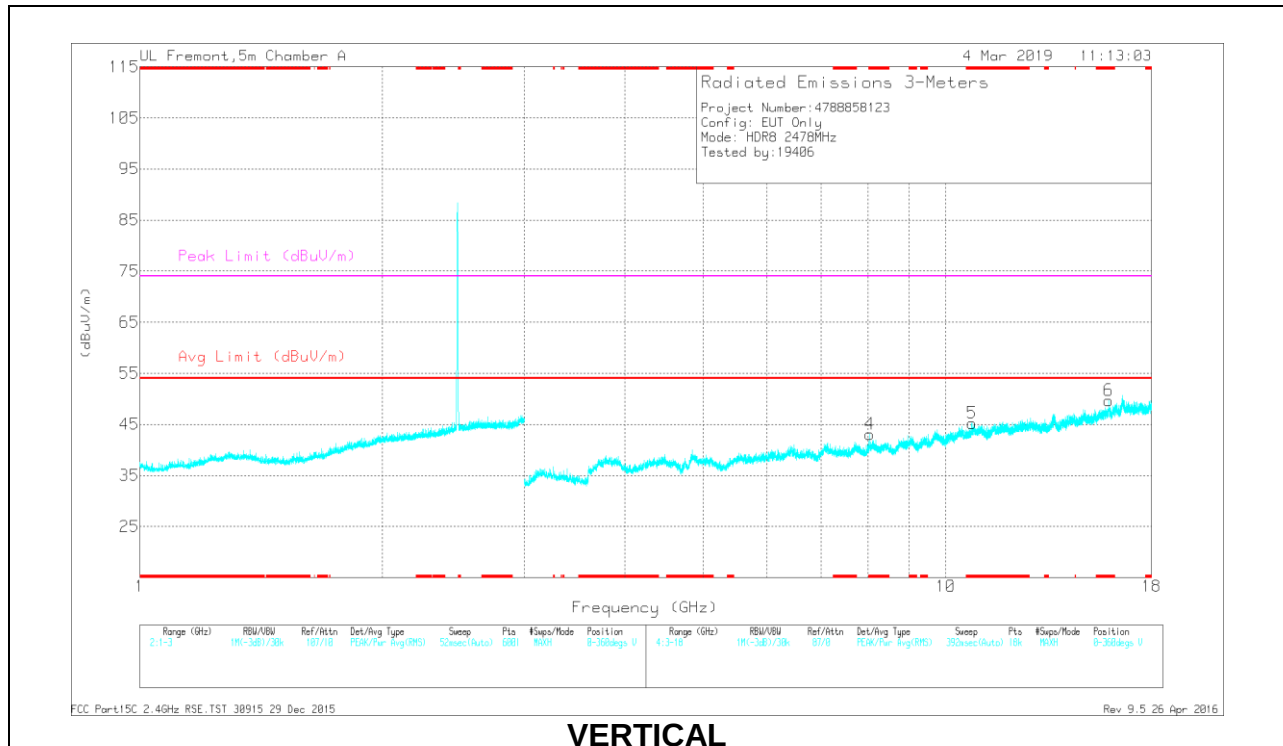
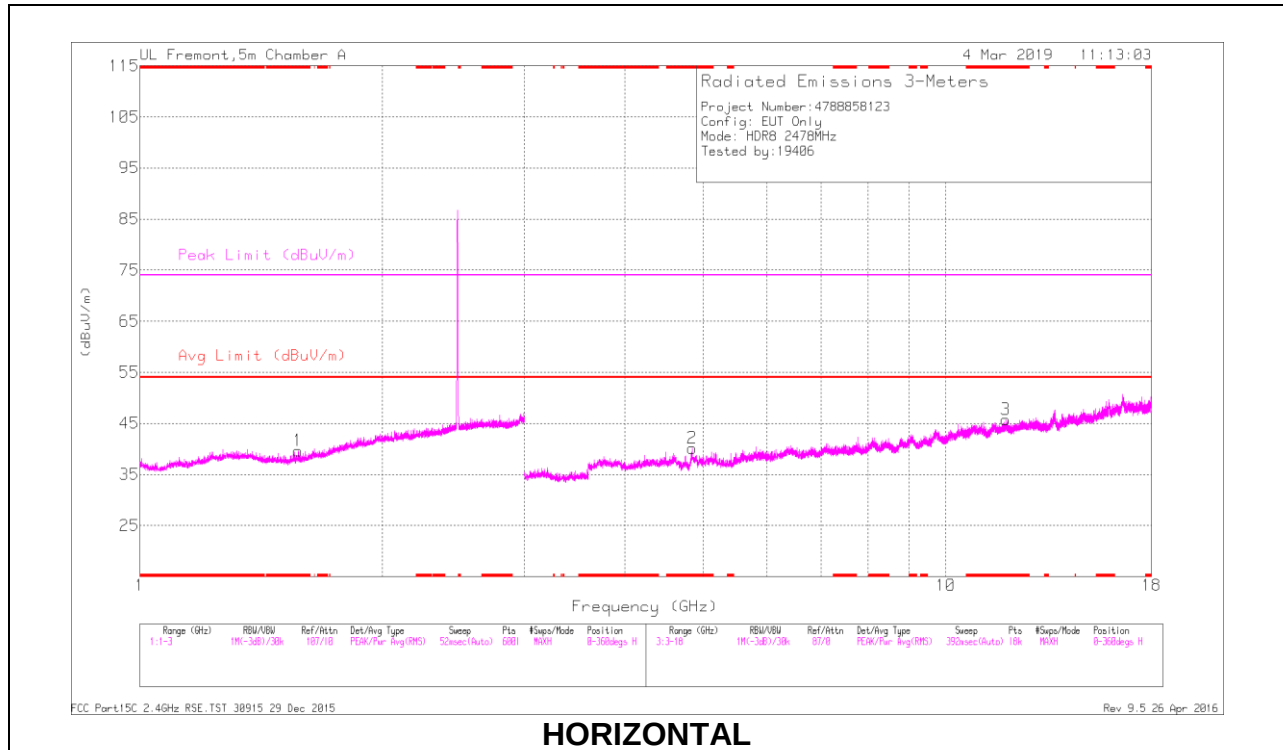
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.353	42.31	PK2	29.1	-24.9	46.51	-	-	74	-27.49	132	310	H
	* 1.354	30.83	MAv1	29.1	-24.9	35.03	54	-18.97	-	-	132	310	H
4	* 1.061	42.42	PK2	27	-25.6	43.82	-	-	74	-30.18	103	310	V
	* 1.063	31.16	MAv1	27	-25.5	32.66	54	-21.34	-	-	103	310	V
2	* 3.877	39.71	PK2	33.6	-29	44.31	-	-	74	-29.69	296	296	H
	* 3.877	28.71	MAv1	33.6	-29	33.31	54	-20.69	-	-	296	296	H
3	* 12.257	32.56	PK2	39	-20.3	51.26	-	-	74	-22.74	44	168	H
	* 12.255	22.13	MAv1	39	-20.4	40.73	54	-13.27	-	-	44	168	H
5	* 11.58	33.3	PK2	38.3	-20.4	51.2	-	-	74	-22.8	32	110	V
	* 11.579	22.38	MAv1	38.3	-20.4	40.28	54	-13.72	-	-	32	110	V
6	* 15.932	32.71	PK2	40.8	-17.7	55.81	-	-	74	-18.19	354	192	V
	* 15.932	21.96	MAv1	40.8	-17.7	45.06	54	-8.94	-	-	354	192	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL RESULTS



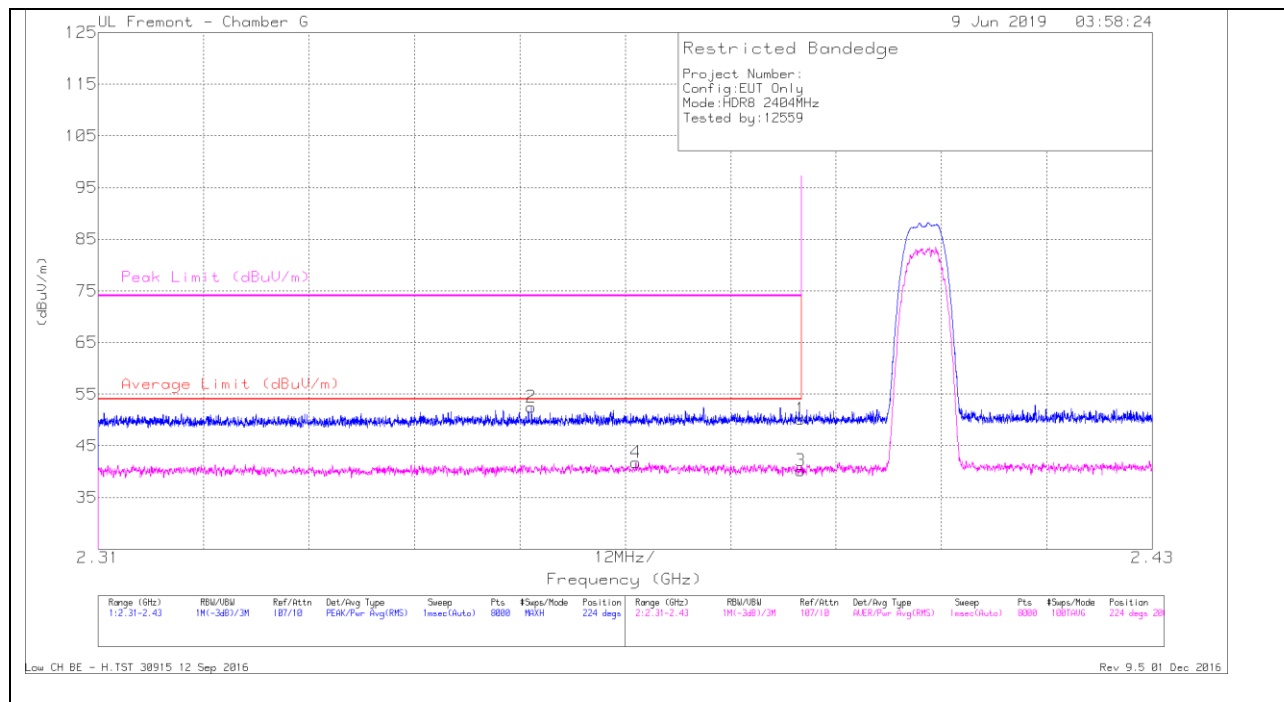
RADIATED EMISSIONS

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.572	42	PK2	28.1	-24.4	45.7	-	-	74	-28.3	356	235	H
	* 1.573	30.31	MAv1	28.1	-24.4	34.01	54	-19.99	-	-	356	235	H
2	* 4.846	37.73	PK2	34.1	-27	44.83	-	-	74	-29.17	85	268	H
	* 4.846	27.47	MAv1	34.1	-27	34.57	54	-19.43	-	-	85	268	H
3	* 11.865	32.62	PK2	38.6	-20.1	51.12	-	-	74	-22.88	259	200	H
	* 11.864	22.46	MAv1	38.5	-20.1	40.86	54	-13.14	-	-	259	200	H
4	* 8.049	34.8	PK2	35.9	-23.1	47.6	-	-	74	-26.4	103	209	V
	* 8.047	24.07	MAv1	35.9	-23	36.97	54	-17.03	-	-	103	209	V
5	* 10.774	32.61	PK2	37.9	-19.5	51.01	-	-	74	-22.99	108	289	V
	* 10.777	21.96	MAv1	37.9	-19.5	40.36	54	-13.64	-	-	108	289	V
6	* 15.918	32.16	PK2	40.9	-17.9	55.16	-	-	74	-18.84	325	157	V
	* 15.918	21.92	MAv1	40.9	-17.9	44.92	54	-9.08	-	-	325	157	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Ampl/Cbl/Filtr/Par d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.359	43.01	Pk	31.7	-22.2	52.51	-	-	74	-21.49	224	200	H
4	* 2.371	32.18	RMS	31.8	-22.2	41.78	54	-12.22	-	-	224	200	H
1	* 2.39	40.51	Pk	31.9	-22.2	50.21	-	-	74	-23.79	224	200	H
3	* 2.39	30.48	RMS	31.9	-22.2	40.18	54	-13.82	-	-	224	200	H

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

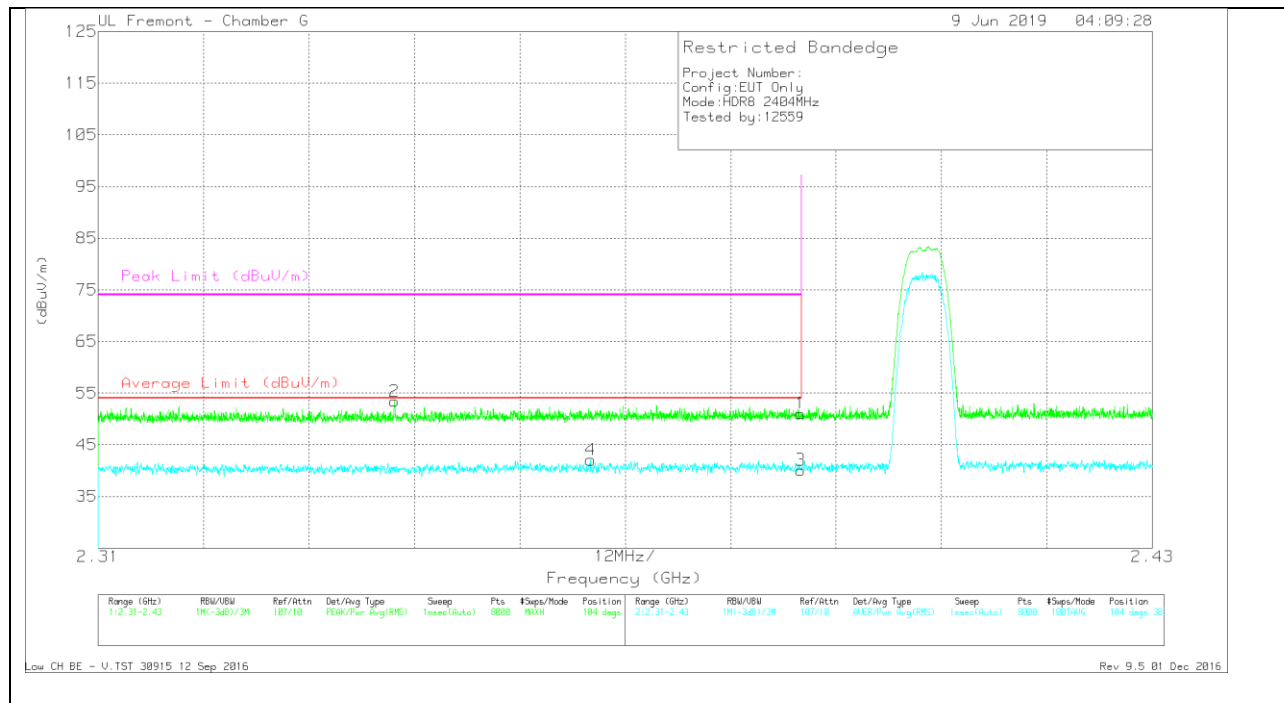
Pk - Peak detector

RMS - RMS detection

Low CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/FiltriP 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	* 2.344	44.04	Pk	31.6	-22.2	53.44	-	-	74	-20.56	104	383	V
4	* 2.366	32.58	RMS	31.7	-22.2	42.08	54	-11.92	-	-	104	383	V
1	* 2.39	41.37	PK	31.9	-22.2	51.07	-	-	74	-22.93	104	383	V
3	* 2.39	30.36	RMS	31.9	-22.2	40.06	54	-13.94	-	-	104	383	V

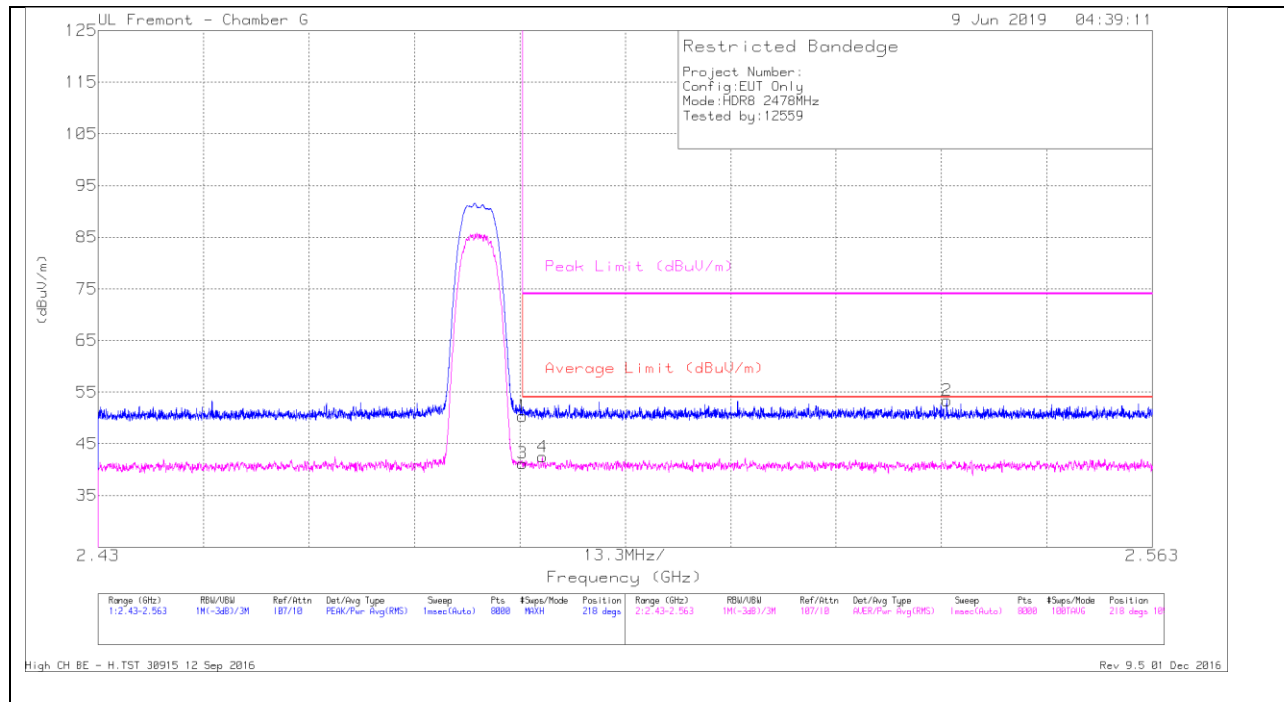
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

Low CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.06	Pk	32.4	-22.1	50.36	-	-	74	-23.64	218	105	H
3	* 2.484	30.9	RMS	32.4	-22.1	41.2	54	-12.8	-	-	218	105	H
4	* 2.486	32.28	RMS	32.4	-22.2	42.48	54	-11.52	-	-	218	105	H
2	2.537	43.2	Pk	32.4	-22.2	53.4	-	-	74	-20.6	218	105	H

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

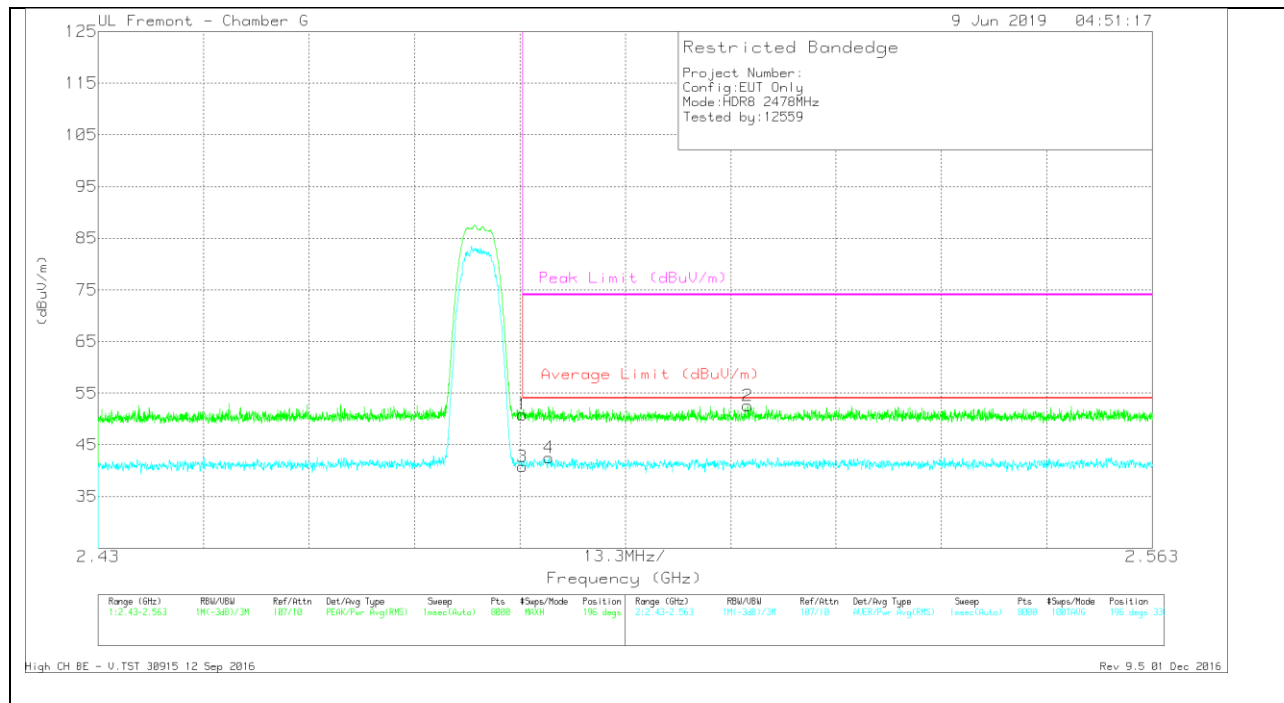
Pk - Peak detector

RMS - RMS detection

High CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.53	Pk	32.4	-22.1	50.83	-	-	74	-23.17	196	330	V
3	* 2.484	30.46	RMS	32.4	-22.1	40.76	54	-13.24	-	-	196	330	V
4	* 2.487	32.29	RMS	32.4	-22.2	42.49	54	-11.51	-	-	196	330	V
2	2.512	42.38	Pk	32.4	-22.2	52.58	-	-	74	-21.42	196	330	V

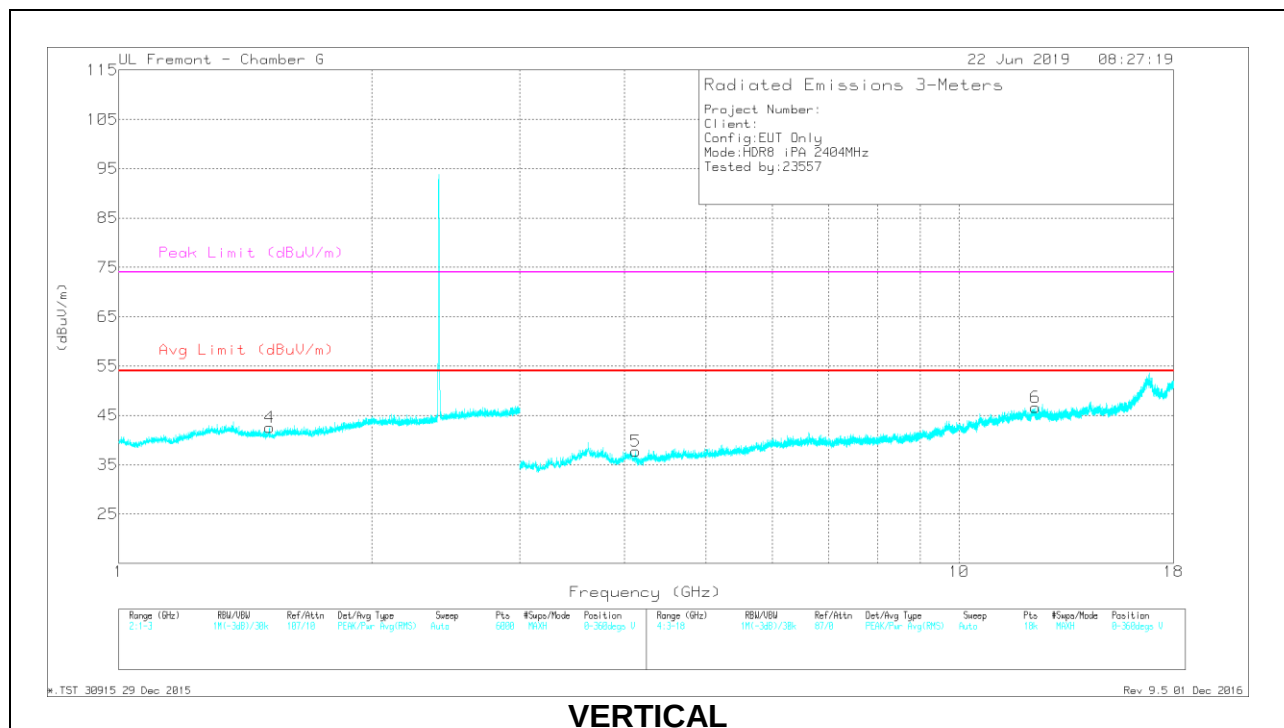
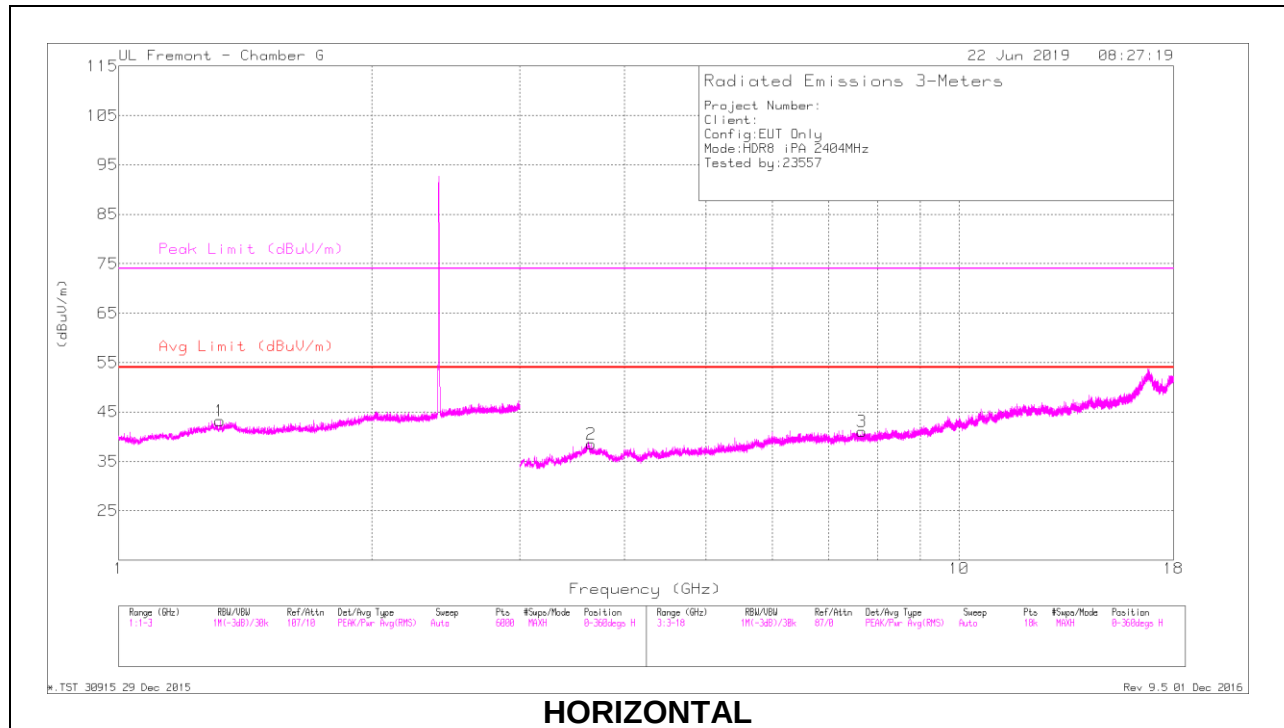
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL RESULTS**

RADIATED EMISSIONS

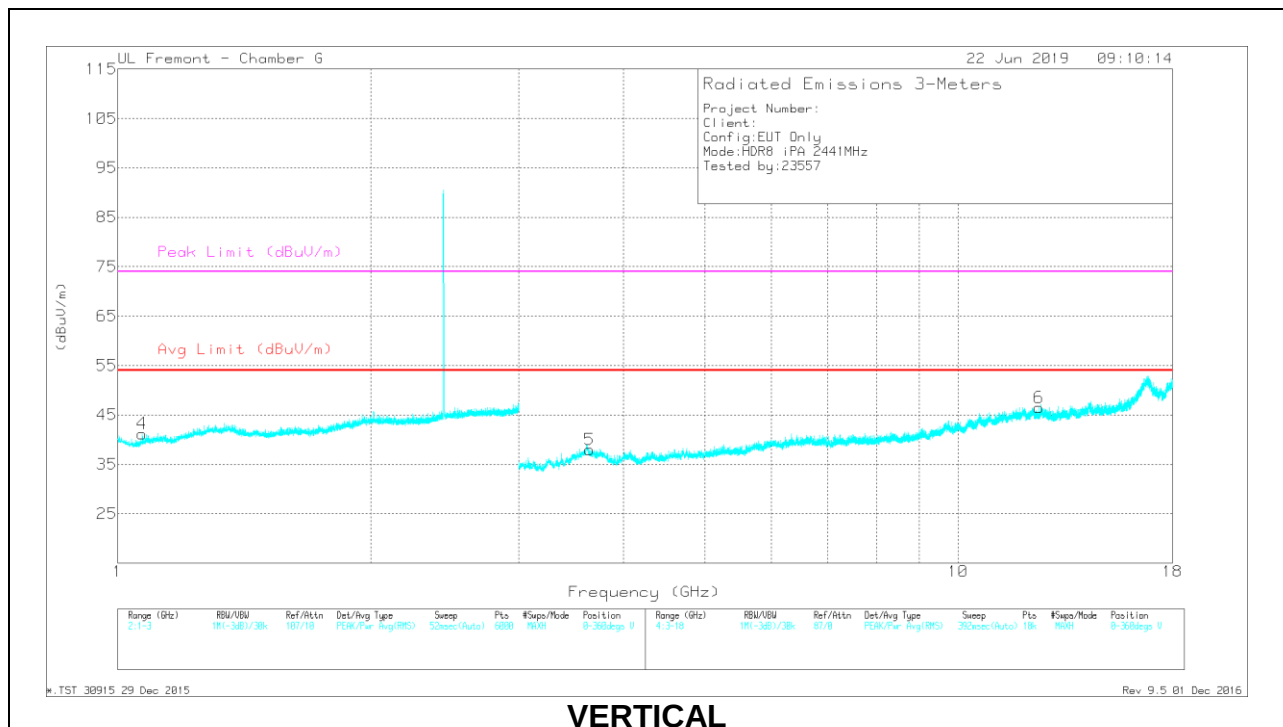
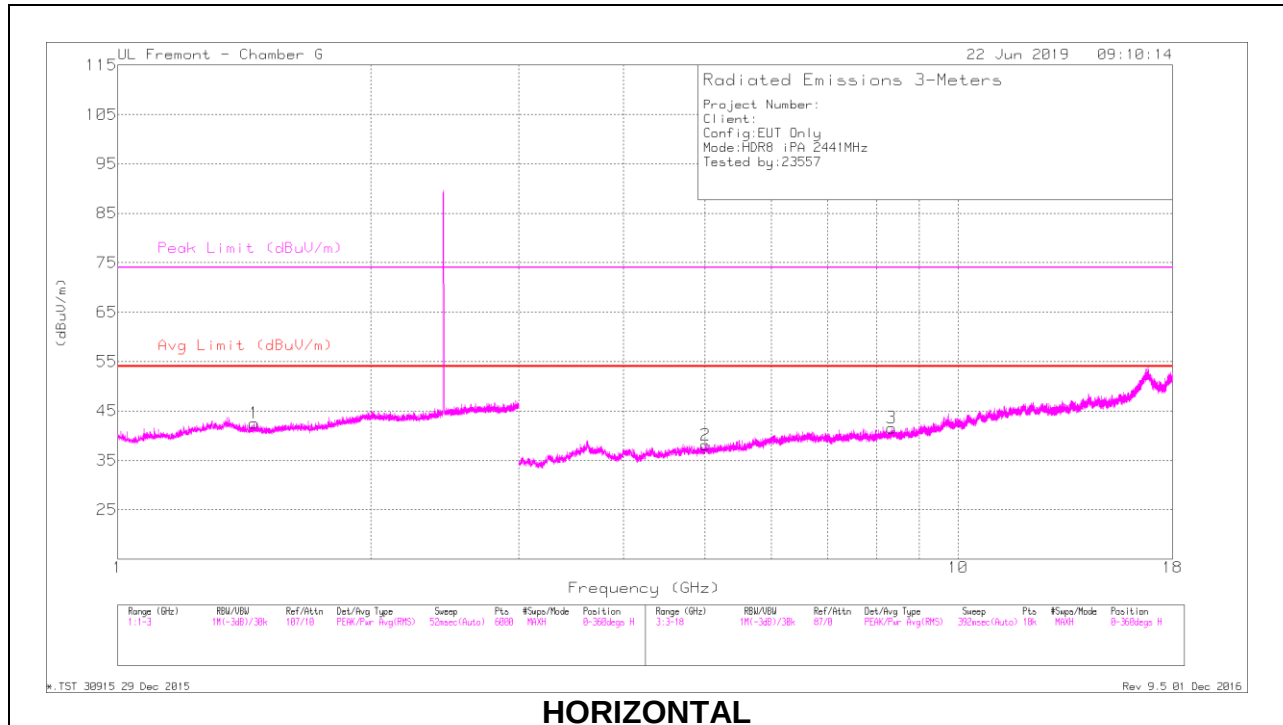
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
	* 1.317	43.65	PK2	29.6	-23.5	49.75	-	-	74	-24.25	106	273	H
1	* 1.318	31.86	MAv1	29.6	-23.5	37.96	54	-16.04	-	-	106	273	H
	* 1.512	43.72	PK2	27.8	-21.9	49.62	-	-	74	-24.38	322	168	V
4	* 1.513	31.53	MAv1	27.8	-21.9	37.43	54	-16.57	-	-	322	168	V
	* 3.648	40.48	PK2	34.6	-29.5	45.58	-	-	74	-28.42	355	236	H
2	* 3.65	28.54	MAv1	34.5	-29.5	33.54	54	-20.46	-	-	355	236	H
	* 7.664	38.94	PK2	36.1	-27.8	47.24	-	-	74	-26.76	282	123	H
3	* 7.665	27.39	MAv1	36	-27.8	35.59	54	-18.41	-	-	282	123	H
	* 4.123	40.68	PK2	33.7	-30.3	44.08	-	-	74	-29.92	320	218	V
5	* 4.122	29.04	MAv1	33.7	-30.2	32.54	54	-21.46	-	-	320	218	V
	* 12.326	36.41	PK2	39.5	-23.1	52.81	-	-	74	-21.19	341	216	V
6	* 12.329	24.74	MAv1	39.5	-23.2	41.04	54	-12.96	-	-	341	216	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT120 (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
	* 1.453	43.1	PK2	28.6	-22.5	49.2	-	-	74	-24.8	36	132	H
1	* 1.451	31.05	MAv1	28.6	-22.5	37.15	54	-16.85	-	-	36	132	H
	* 1.071	44.14	PK2	27.3	-23.9	47.54	-	-	74	-26.46	123	333	V
4	* 1.071	31.93	MAv1	27.3	-23.9	35.33	54	-18.67	-	-	123	333	V
	* 5.011	39.79	PK2	34.2	-29.3	44.69	-	-	74	-29.31	239	155	H
2	* 5.008	28.16	MAv1	34.2	-29.3	33.06	54	-20.94	-	-	239	155	H
	* 8.334	38.15	PK2	36.1	-26.8	47.45	-	-	74	-26.55	100	363	H
3	* 8.334	26.83	MAv1	36.1	-26.8	36.13	54	-17.87	-	-	100	363	H
	* 3.646	41.32	PK2	34.6	-29.5	46.42	-	-	74	-27.58	286	217	V
5	* 3.645	28.72	MAv1	34.6	-29.5	33.82	54	-20.18	-	-	286	217	V
	* 12.491	35.73	PK2	39.6	-23.3	52.03	-	-	74	-21.97	184	277	V
6	* 12.491	24.42	MAv1	39.6	-23.3	40.72	54	-13.28	-	-	184	277	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

UL Fremont - Chamber G

22 Jun 2019 09:46:48

Radiated Emissions 3-Meters

Project Number: 30915
 Client: TST
 Config: EUT Only
 Mode: HDR8 iPA 2478MHz
 Tested by: 23557

Peak Limit (dBuU/m)

Avg Limit (dBuU/m)

Frequency (GHz)

Range (GHz)	RBW/VBW	Ref/Att'n	Det/Avg Type	Sweep	PLs	#Sps/Mode	Position
1-18	1Hz-300/30k	107/10	Peak/Avg	5Sweep(Auto)	60dB	NR	0-350deg H

Range (GHz) RBW/VBW Ref/Att'n Det/Avg Type Sweep PLs #Sps/Mode Position

1-18 1Hz-300/30k 107/10 Peak/Avg 5Sweep(Auto) 60dB NR 0-350deg H

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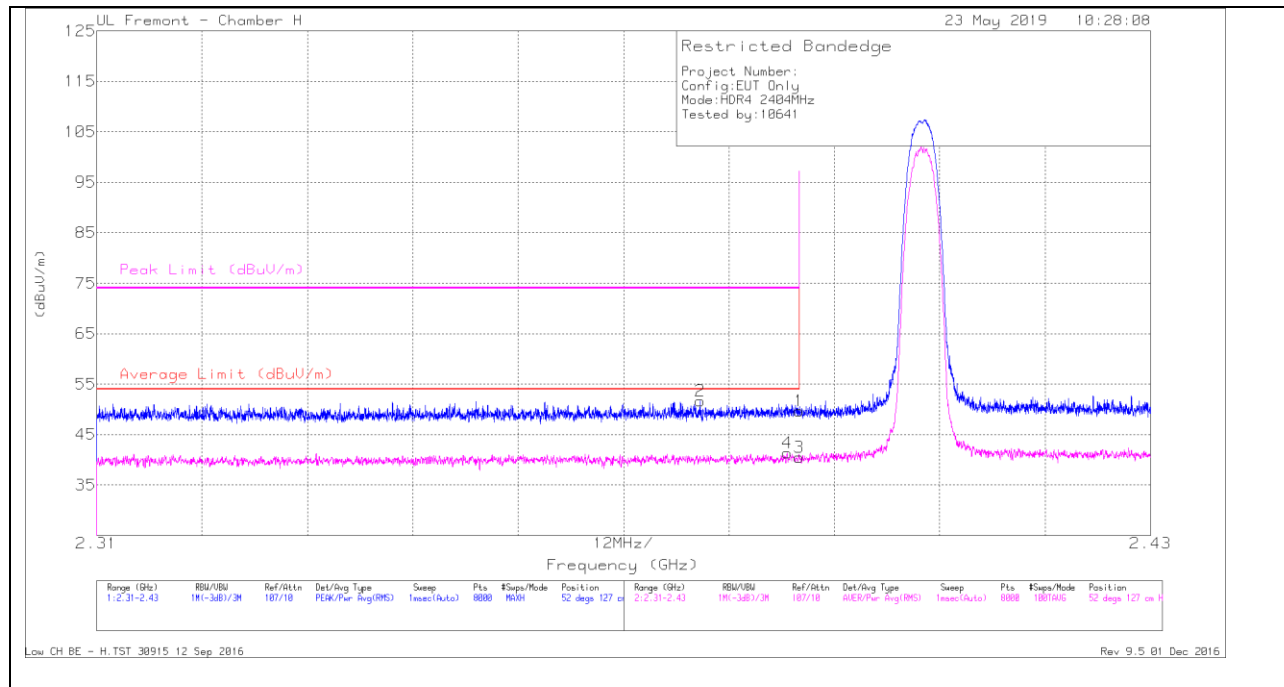
RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
	* 1.567	43.16	PK2	27.8	-21.4	49.56	-	-	74	-24.44	43	164	H
1	* 1.566	31.27	MAv1	27.8	-21.4	37.67	54	-16.33	-	-	43	164	H
	* 1.244	43.77	PK2	29.1	-23.7	49.17	-	-	74	-24.83	312	169	V
4	* 1.247	32	MAv1	29.2	-23.7	37.5	54	-16.5	-	-	312	169	V
	* 3.621	40.47	PK2	35.7	-30	46.17	-	-	74	-27.83	22	161	H
2	* 3.621	28.66	MAv1	35.7	-30	34.36	54	-19.64	-	-	22	161	H
	* 13.334	36.59	PK2	39.6	-23	53.19	-	-	74	-20.81	292	145	H
3	* 13.332	25.07	MAv1	39.6	-23.1	41.57	54	-12.43	-	-	292	145	H
	* 4	39.43	PK2	33.6	-29.1	43.93	-	-	74	-30.07	132	311	V
5	* 3.999	28.2	MAv1	33.6	-29.2	32.6	54	-21.4	-	-	132	311	V
	* 7.524	38.8	PK2	36	-27	47.8	-	-	74	-26.2	143	287	V
6	* 7.523	26.92	MAv1	36	-27	35.92	54	-18.08	-	-	143	287	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.2.5. BEAMFORMING HIGH POWER HDR (HDR4)**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	41.56	PK	31.6	-23.5	49.66	-	-	74	-24.34	52	127	H
2	* 2.379	43.51	PK	31.6	-23.5	51.61	-	-	74	-22.39	52	127	H
3	* 2.39	32.42	RMS	31.6	-23.5	40.52	54	-13.48	-	-	52	127	H
4	* 2.389	33.29	RMS	31.6	-23.5	41.39	54	-12.61	-	-	52	127	H

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

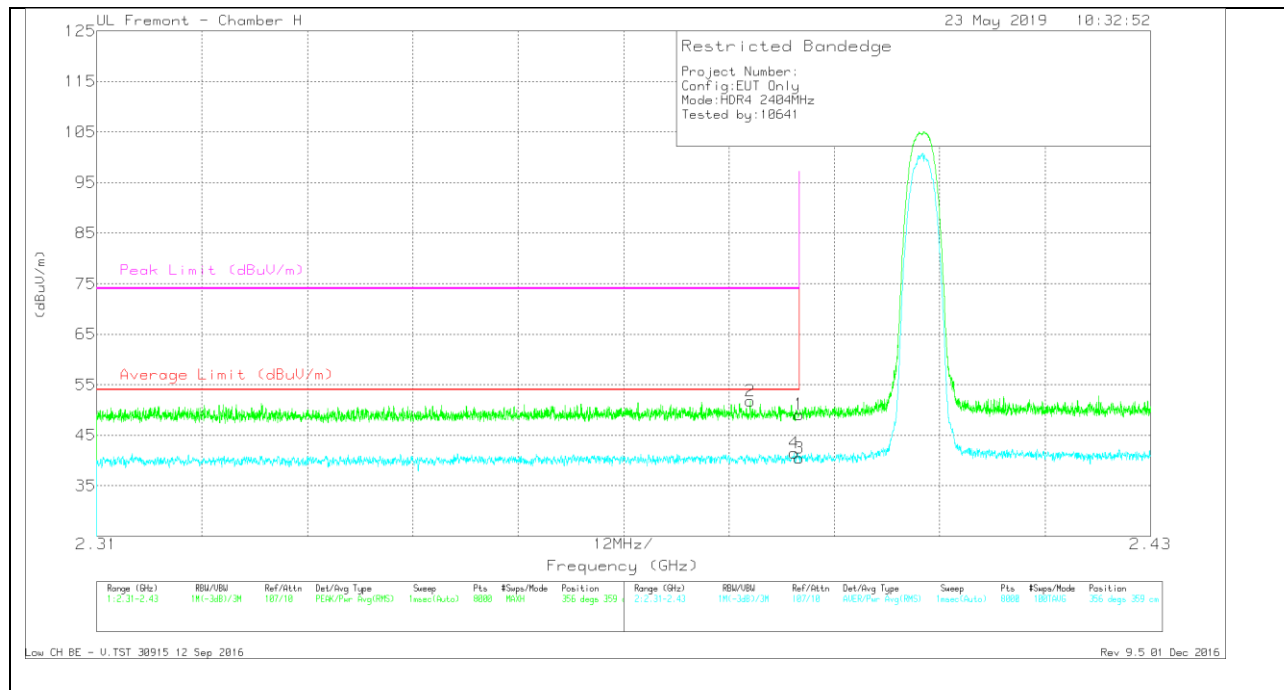
Pk - Peak detector

RMS - RMS detection

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	41.01	Pk	31.6	-23.5	49.11	-	-	74	-24.89	356	359	V
2	* 2.384	43.71	Pk	31.6	-23.5	51.81	-	-	74	-22.19	356	359	V
3	* 2.39	32.42	RMS	31.6	-23.5	40.52	54	-13.48	-	-	356	359	V
4	* 2.389	33.32	RMS	31.6	-23.5	41.42	54	-12.58	-	-	356	359	V

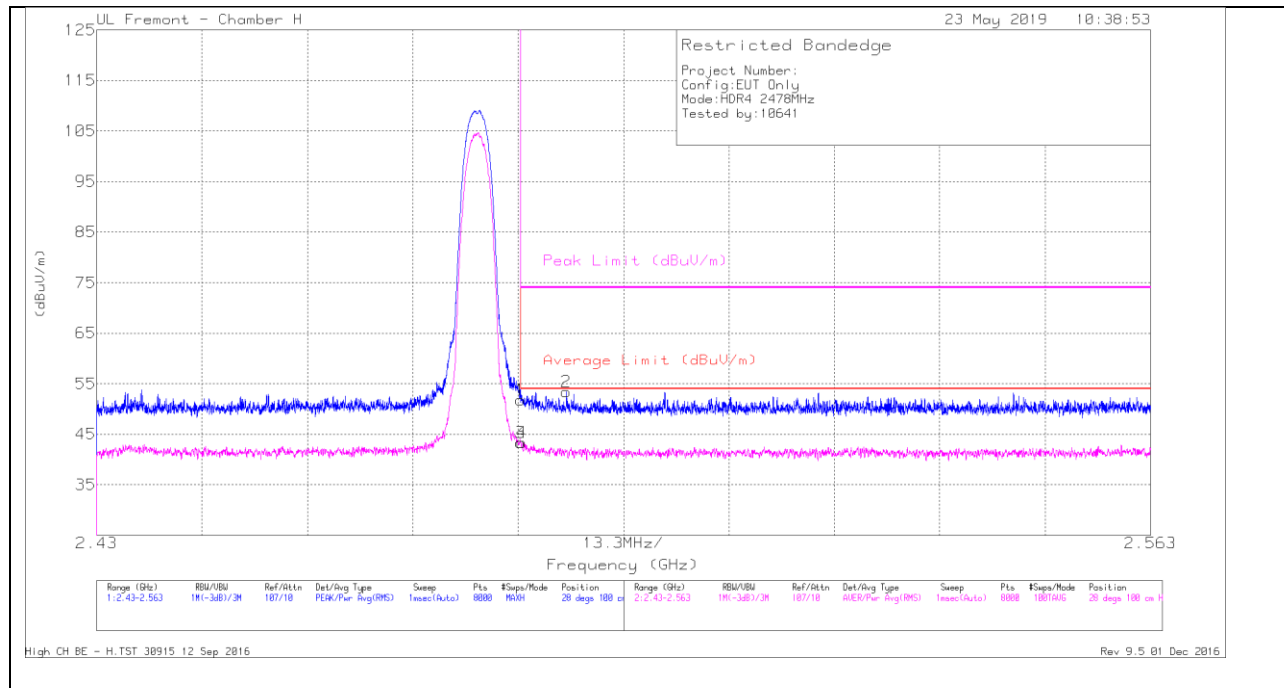
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

Low CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/FiltriP 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	42.83	Pk	32.3	-23.3	51.83	-	-	74	-22.17	28	100	H
2	* 2.489	44.41	Pk	32.3	-23.3	53.41	-	-	74	-20.59	28	100	H
3	* 2.484	34.38	RMS	32.3	-23.3	43.38	54	-10.62	-	-	28	100	H
4	* 2.484	34.36	RMS	32.3	-23.3	43.36	54	-10.64	-	-	28	100	H

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

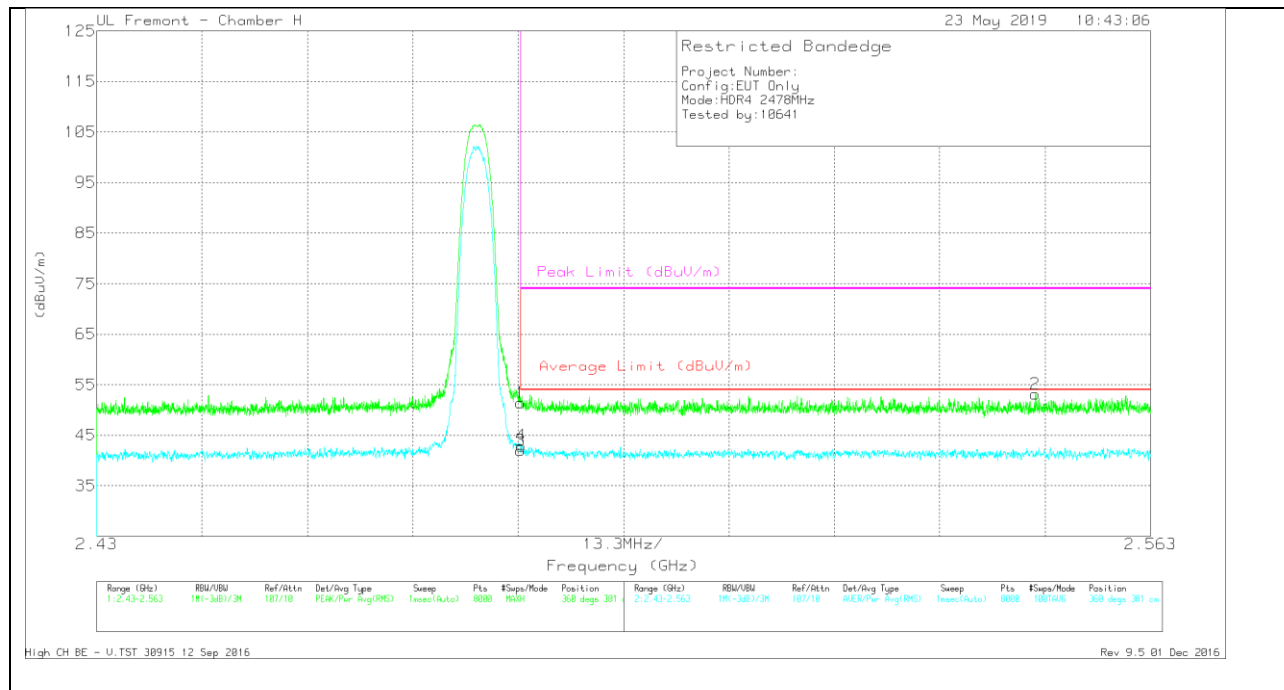
Pk - Peak detector

RMS - RMS detection

High CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	42.39	Pk	32.3	-23.3	51.39	-	-	74	-22.61	360	381	V
3	* 2.484	33	RMS	32.3	-23.3	42	54	-12	-	-	360	381	V
4	* 2.484	33.9	RMS	32.3	-23.3	42.9	54	-11.1	-	-	360	381	V
2	2.548	43.97	Pk	32.3	-23.1	53.17	-	-	74	-20.83	360	381	V

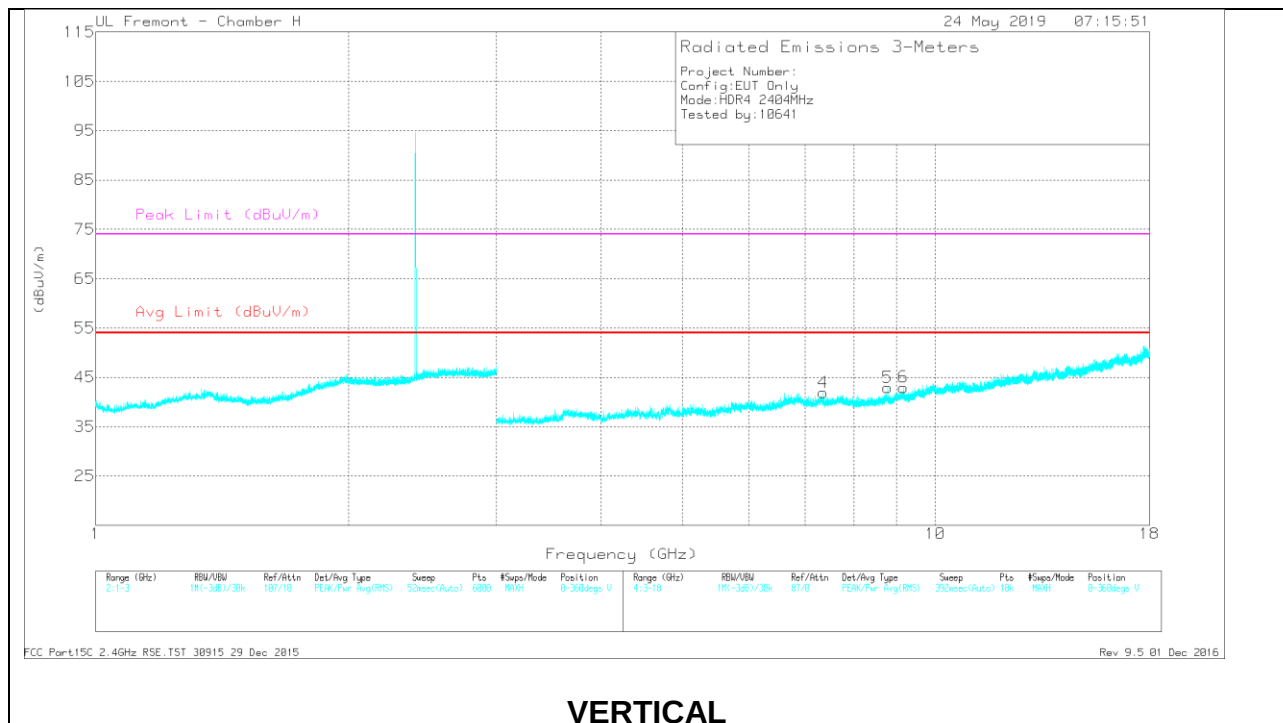
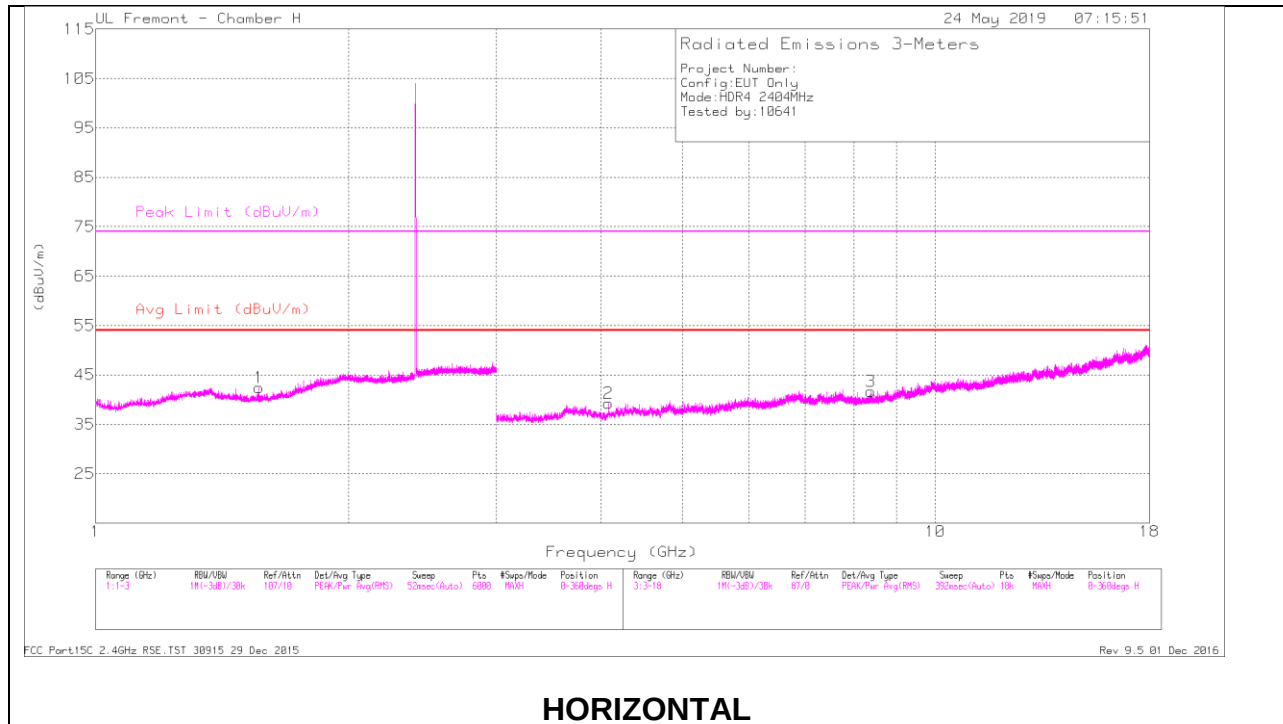
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL RESULTS**

RADIATED EMISSIONS

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.566	44.82	PK2	28	-24.7	48.12	-	-	74	-25.88	294	118	H
	* 1.563	33.2	MAv1	28	-24.7	36.5	54	-17.5	-	-	294	118	H
2	* 4.08	41.81	PK2	33.3	-30.8	44.31	-	-	74	-29.69	257	136	H
	* 4.08	31.09	MAv1	33.3	-30.8	33.59	54	-20.41	-	-	257	136	H
3	* 8.388	38.32	PK2	35.9	-26.1	48.12	-	-	74	-25.88	181	151	H
	* 8.388	26.84	MAv1	35.9	-26.1	36.64	54	-17.36	-	-	181	151	H
4	* 7.36	37.76	PK2	36.4	-26.7	47.46	-	-	74	-26.54	166	162	V
	* 7.362	27.12	MAv1	36.4	-26.8	36.72	54	-17.28	-	-	166	162	V
6	* 9.169	37.31	PK2	36.3	-23.9	49.71	-	-	74	-24.29	202	179	V
	* 9.168	25.52	MAv1	36.3	-23.9	37.92	54	-16.08	-	-	202	179	V
5	8.777	37.34	PK2	36	-25.2	48.14	-	-	74	-25.86	168	205	V

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

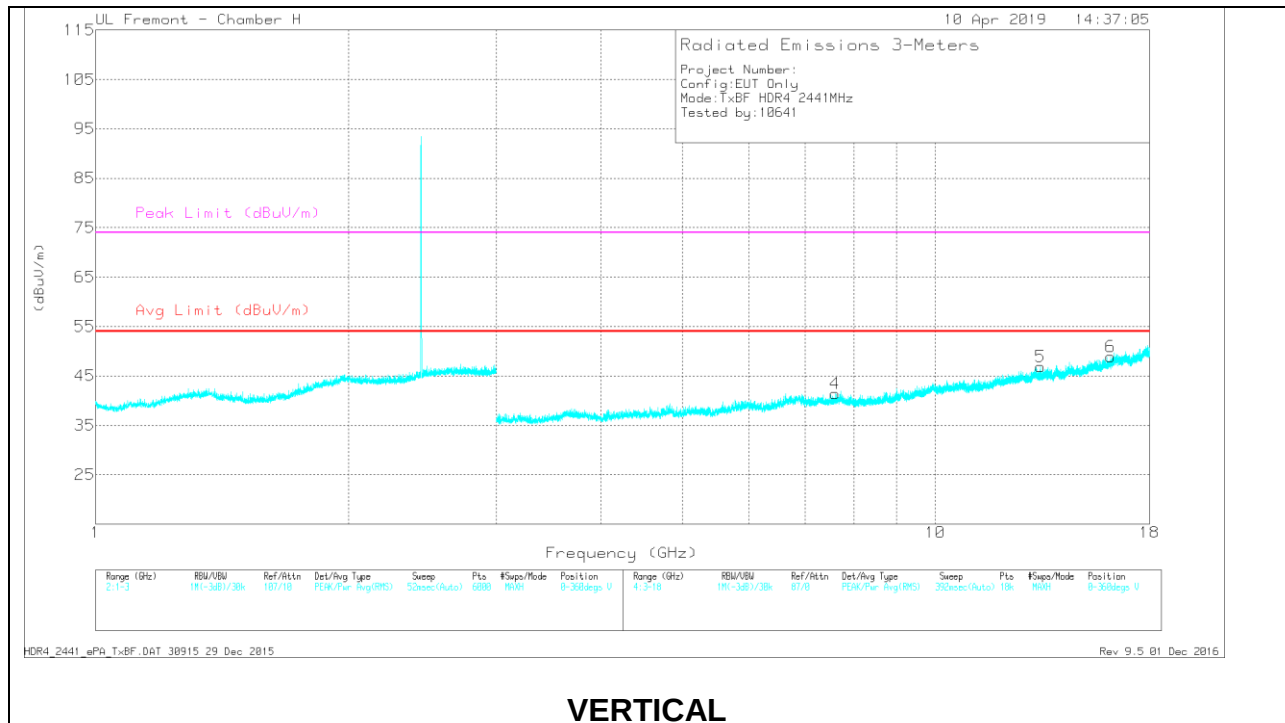
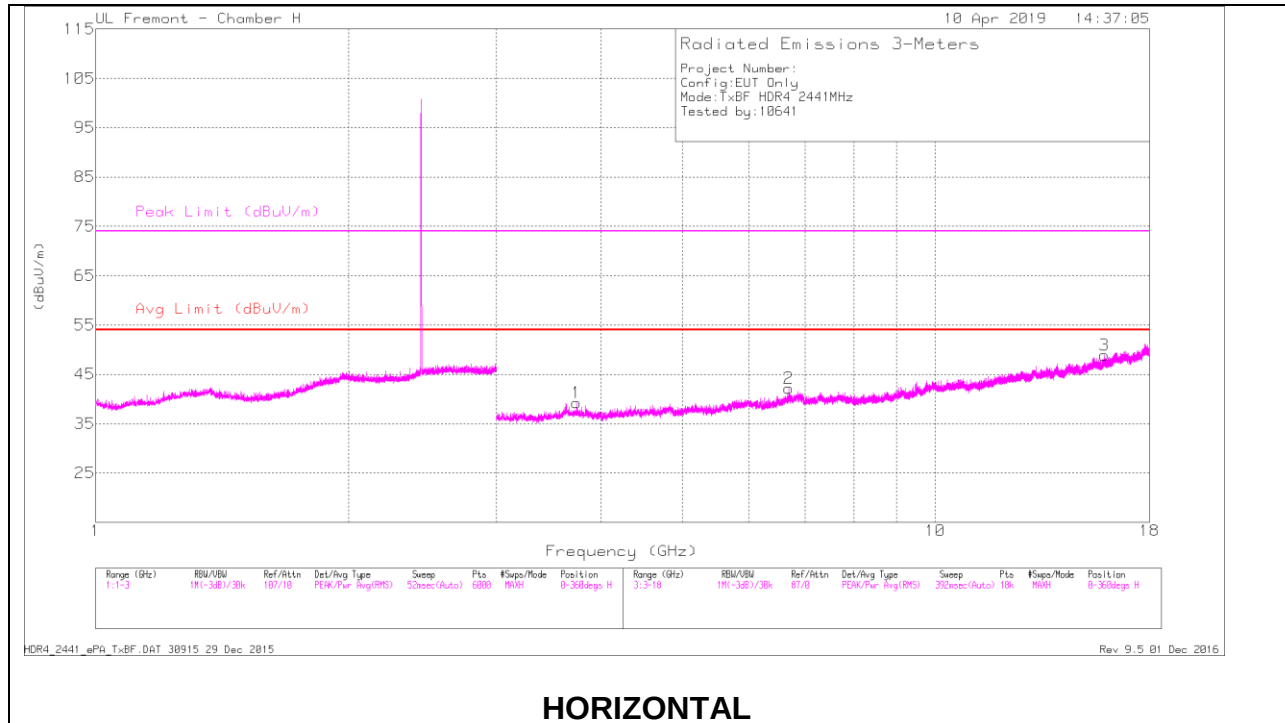
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.741	41.86	PK2	33.3	-30.9	44.26	-	-	74	-29.74	309	127	H
	* 3.739	31.03	MAv1	33.3	-30.9	33.43	54	-20.57	-	-	309	127	H
3	* 15.898	35.03	PK2	40.7	-20.5	55.23	-	-	74	-18.77	152	241	H
	* 15.9	24.04	MAv1	40.7	-20.5	44.24	54	-9.76	-	-	152	241	H
4	* 7.604	39.68	PK2	36.6	-27.6	48.68	-	-	74	-25.32	114	291	V
	* 7.602	27.75	MAv1	36.5	-27.6	36.65	54	-17.35	-	-	114	291	V
5	* 13.355	35.87	PK2	39.5	-22.5	52.87	-	-	74	-21.13	150	264	V
	* 13.357	24.69	MAv1	39.5	-22.4	41.79	54	-12.21	-	-	150	264	V
6	* 16.177	35.89	PK2	41.2	-21.9	55.19	-	-	74	-18.81	109	287	V
	* 16.174	24.72	MAv1	41.2	-21.9	44.02	54	-9.98	-	-	109	287	V
2	6.698	40.72	PK2	36.8	-28.9	48.62	-	-	-	-	206	306	H

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

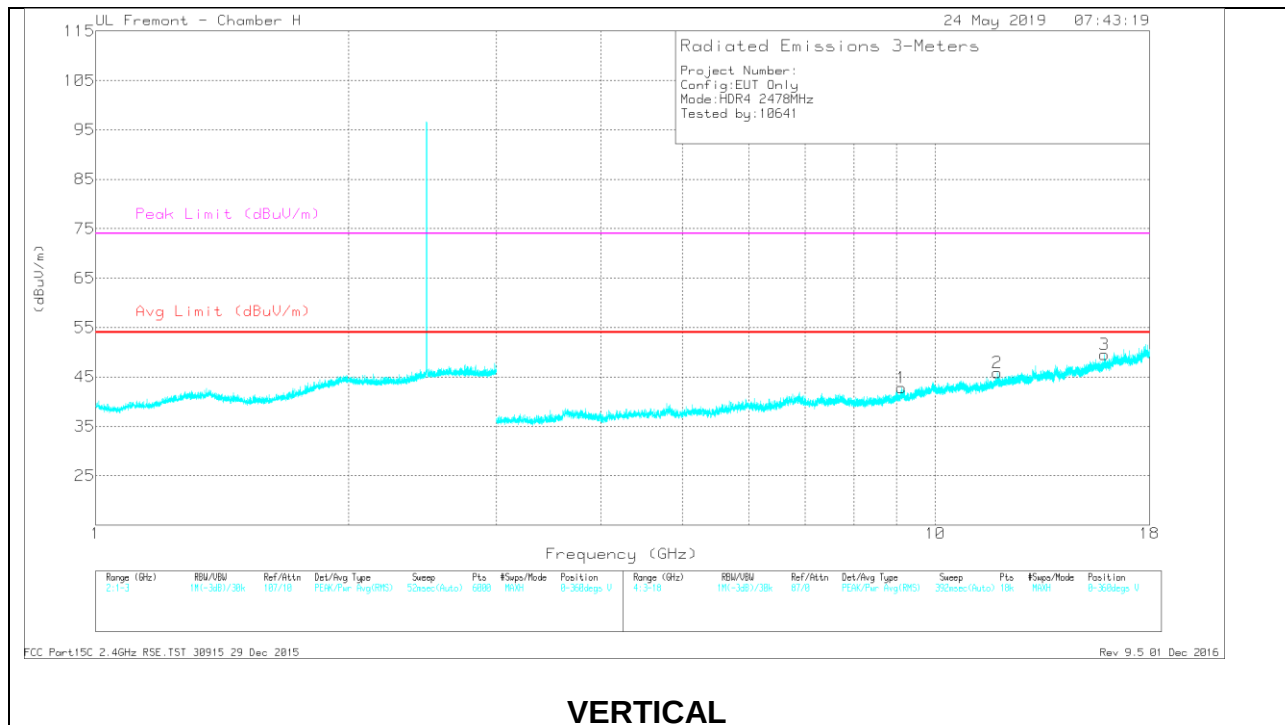
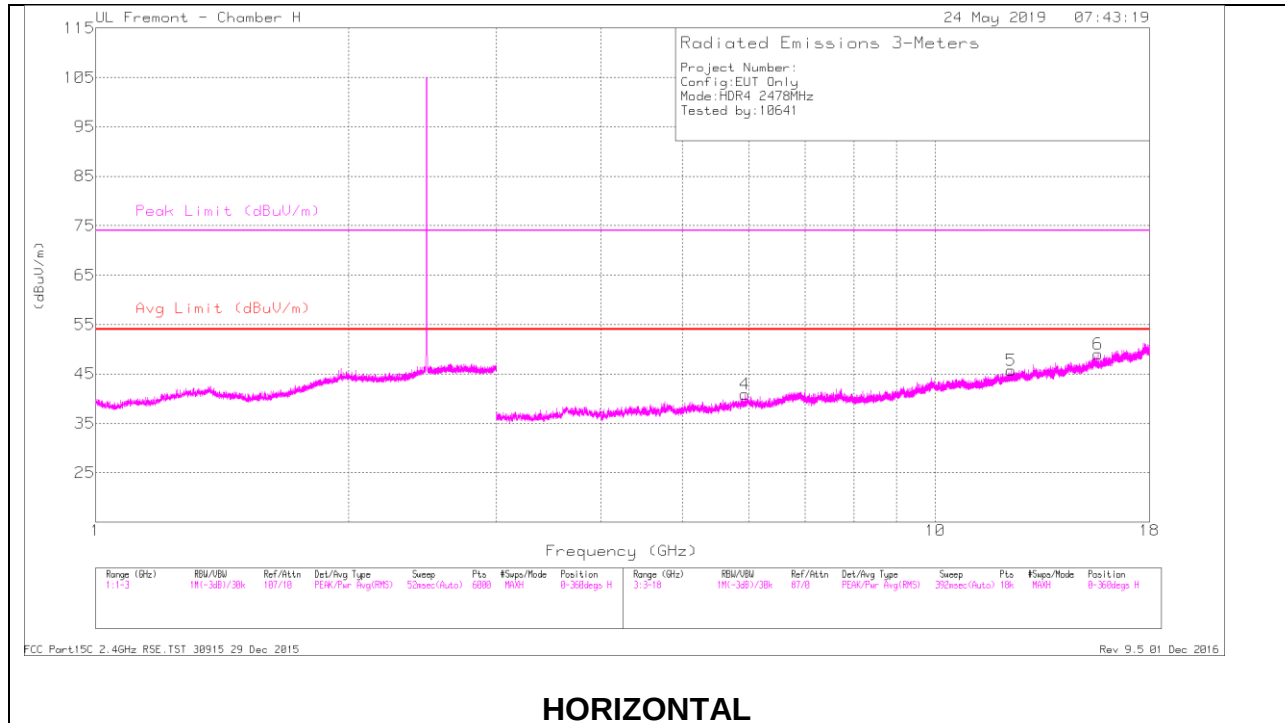
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 12.31	36.14	PK2	39	-22.9	52.24	-	-	74	-21.76	217	122	H
	* 12.306	24.86	MAv1	39	-22.9	40.96	54	-13.04	-	-	217	122	H
6	* 15.629	36.74	PK2	40.8	-22.5	55.04	-	-	74	-18.96	185	134	H
	* 15.628	25.23	MAv1	40.8	-22.6	43.43	54	-10.57	-	-	185	134	H
1	* 9.118	36.26	PK2	36.3	-23.7	48.86	-	-	74	-25.14	218	175	V
	* 9.116	25.38	MAv1	36.3	-23.6	38.08	54	-15.92	-	-	218	175	V
2	* 11.854	36.35	PK2	38.7	-22.8	52.25	-	-	74	-21.75	250	188	V
	* 11.854	24.74	MAv1	38.7	-22.8	40.64	54	-13.36	-	-	250	188	V
3	* 15.899	35.77	PK2	40.7	-20.5	55.97	-	-	74	-18.03	173	208	V
	* 15.902	24.18	MAv1	40.7	-20.5	44.38	54	-9.62	-	-	173	208	V
4	5.937	41.33	PK2	35.6	-29.6	47.33	-	-	74	-26.67	210	172	H

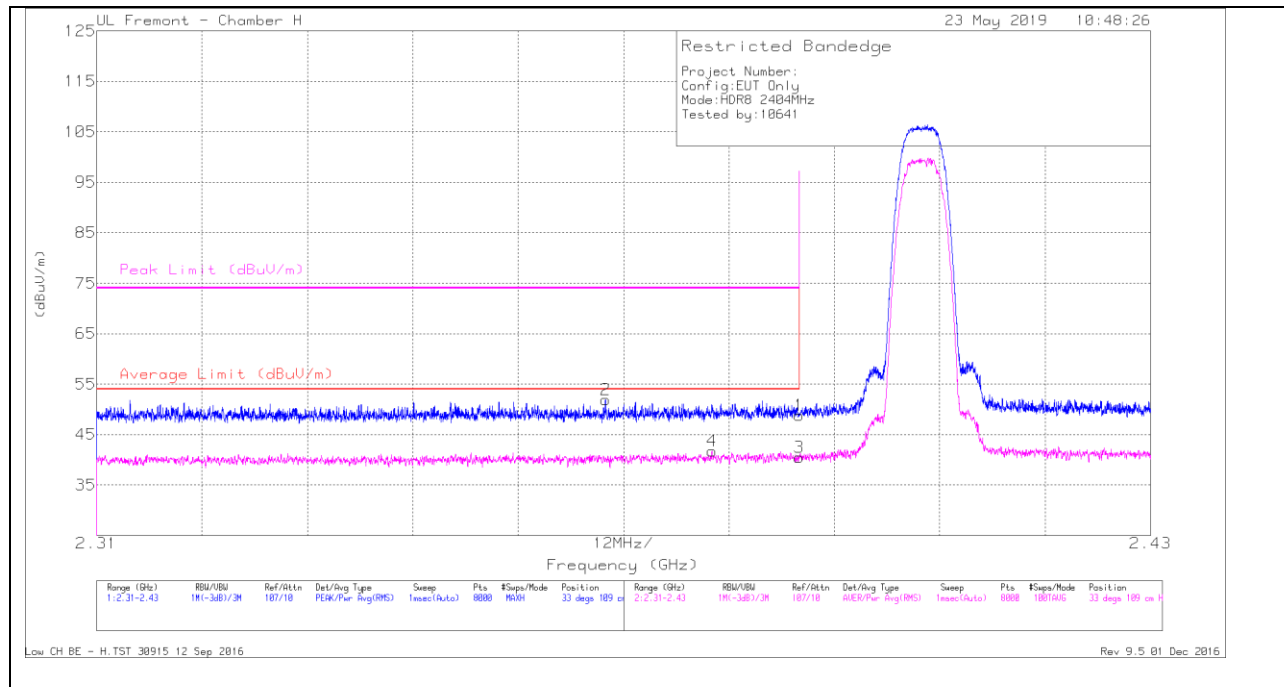
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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9.2.6. BEAMFORMING HIGH POWER HDR (HDR8)**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	40.71	Pk	31.6	-23.5	48.81	-	-	74	-25.19	33	109	H
2	* 2.368	43.96	Pk	31.5	-23.6	51.86	-	-	74	-22.14	33	109	H
3	* 2.39	32.35	RMS	31.6	-23.5	40.45	54	-13.55	-	-	33	109	H
4	* 2.38	33.57	RMS	31.6	-23.5	41.67	54	-12.33	-	-	33	109	H

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

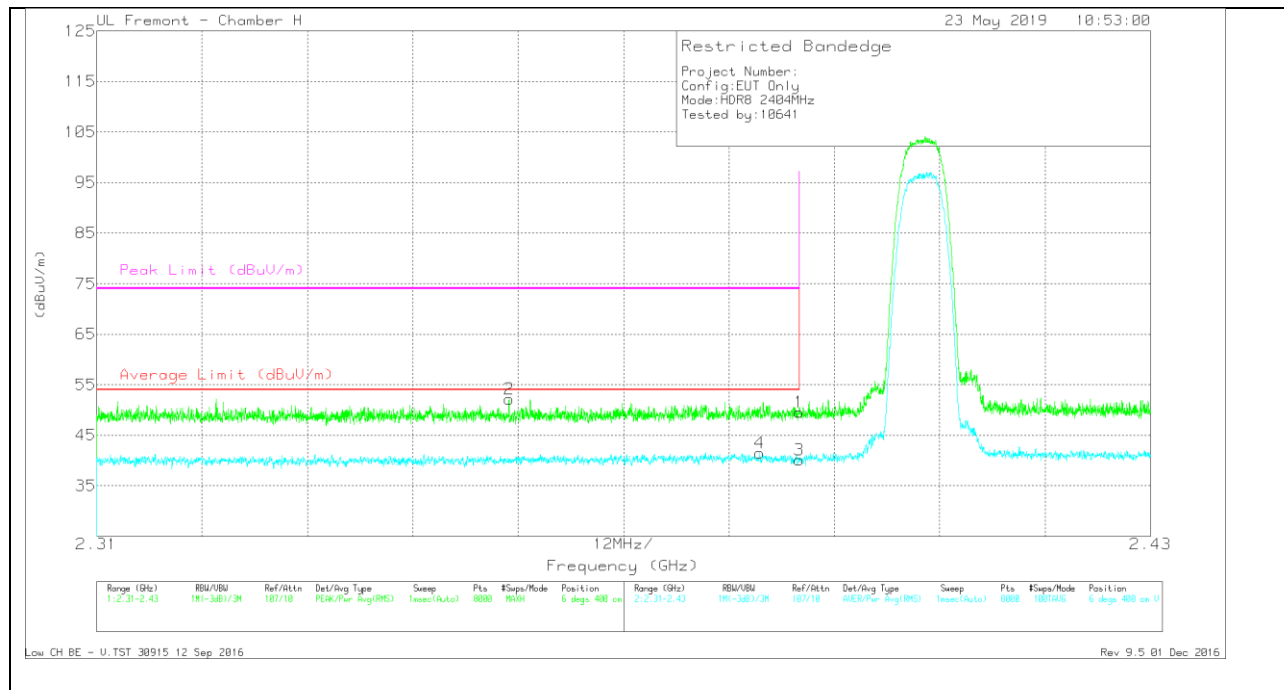
Pk - Peak detector

RMS - RMS detection

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	41.49	Pk	31.6	-23.5	49.59	-	-	74	-24.41	6	400	V
2	* 2.357	44.39	Pk	31.4	-23.6	52.19	-	-	74	-21.81	6	400	V
3	* 2.39	31.97	RMS	31.6	-23.5	40.07	54	-13.93	-	-	6	400	V
4	* 2.386	33.43	RMS	31.6	-23.5	41.53	54	-12.47	-	-	6	400	V

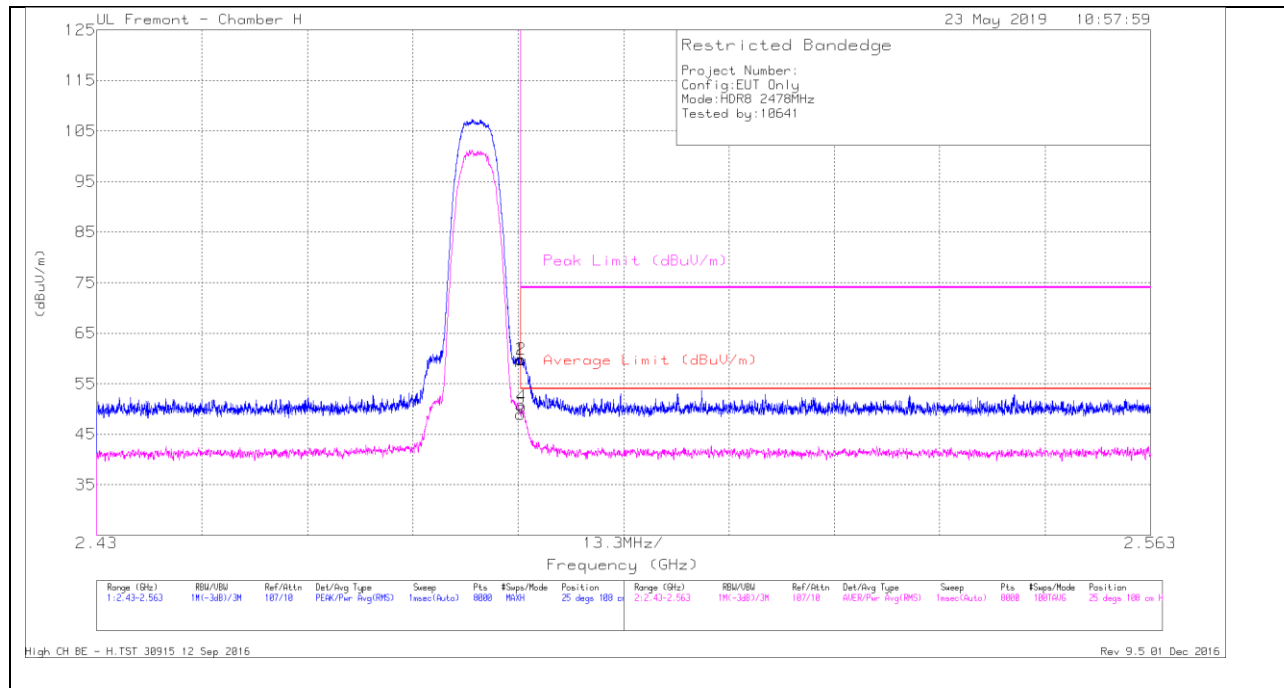
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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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	50.76	Pk	32.3	-23.3	59.76	-	-	74	-14.24	25	108	H
2	* 2.484	50.88	Pk	32.3	-23.3	59.88	-	-	74	-14.12	25	108	H
3	* 2.484	39.97	RMS	32.3	-23.3	48.97	54	-5.03	-	-	25	108	H
4	* 2.484	41.53	RMS	32.3	-23.3	50.53	54	-3.47	-	-	25	108	H

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

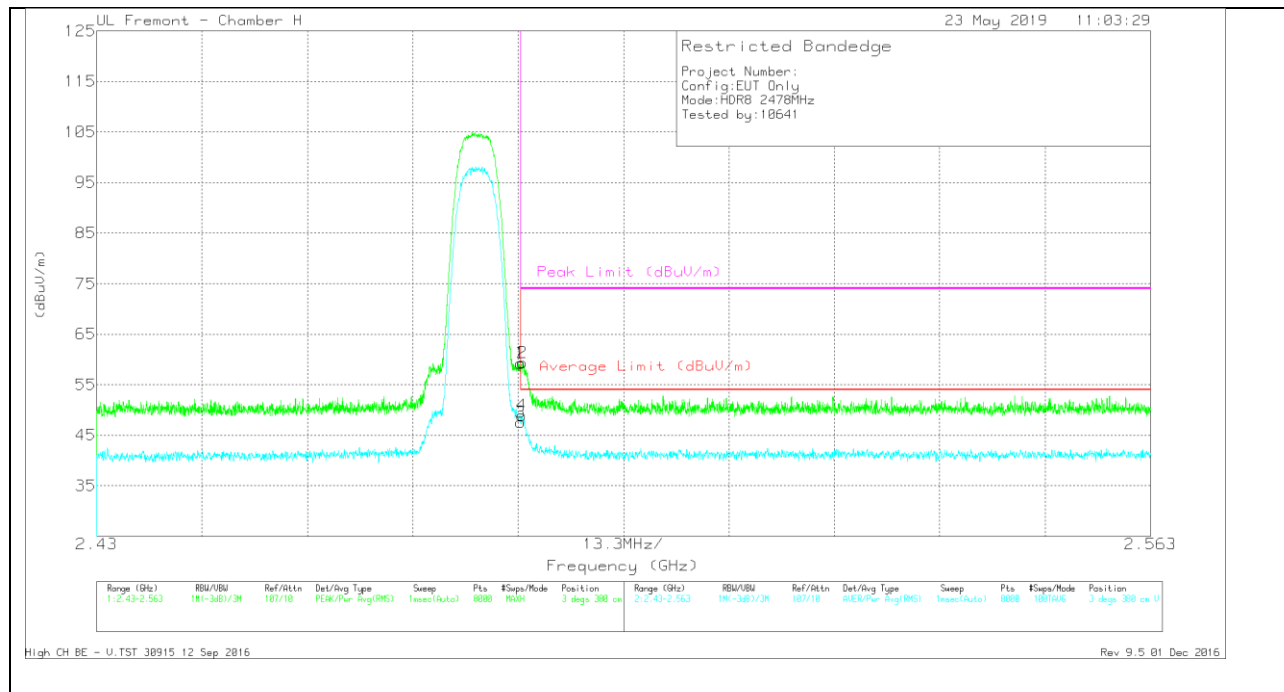
Pk - Peak detector

RMS - RMS detection

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	50.19	Pk	32.3	-23.3	59.19	-	-	74	-14.81	3	380	V
2	* 2.484	50.35	Pk	32.3	-23.3	59.35	-	-	74	-14.65	3	380	V
3	* 2.484	38.54	RMS	32.3	-23.3	47.54	54	-6.46	-	-	3	380	V
4	* 2.484	39.95	RMS	32.3	-23.3	48.95	54	-5.05	-	-	3	380	V

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

Pk - Peak detector

RMS - RMS detection

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