

10. RADIATED TEST RESULTS

10.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 120 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements for the 30-1000 MHz range, 9 kHz for peak detection measurements or 9 kHz for quasi-peak detection measurements for the 0.15-30 MHz range and 200 Hz for peak detection measurements or 200 Hz for quasi-peak detection measurements for the 9 to 150 kHz range. Peak detection is used unless otherwise noted as quasi-peak.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

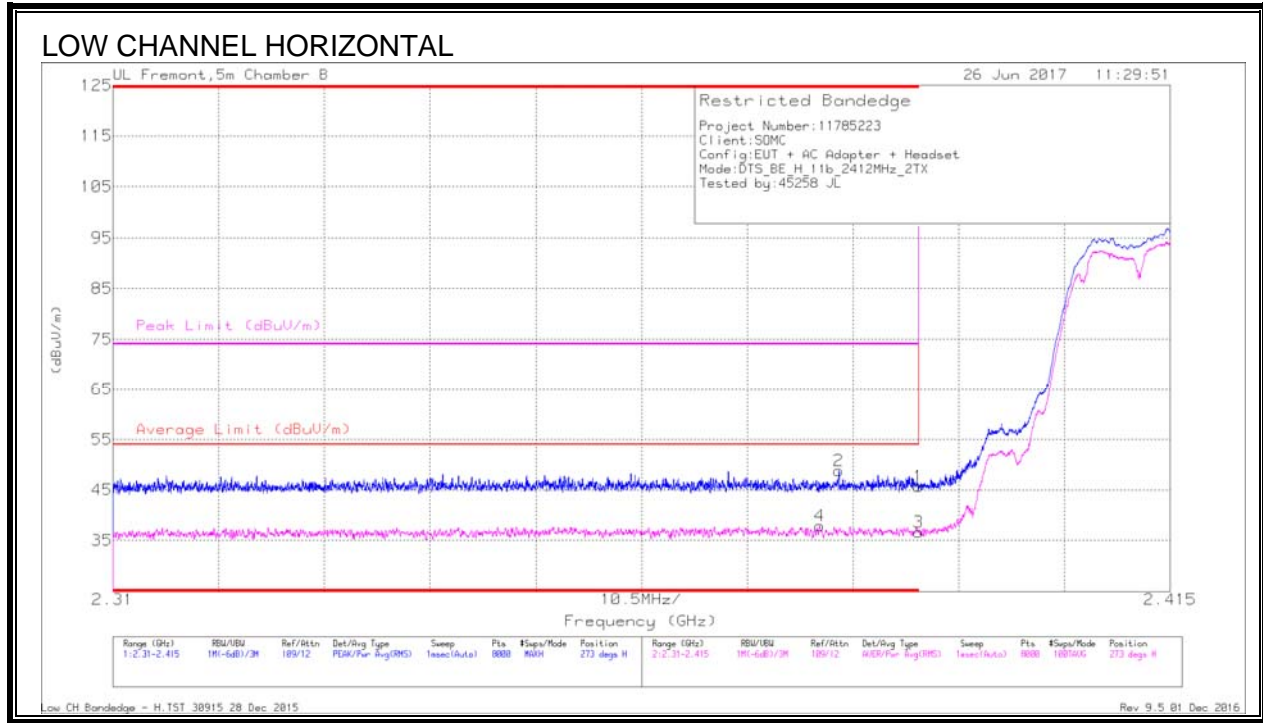
The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions

10.2. TRANSMITTER ABOVE 1 GHz

10.2.1 11b MIMO MODE IN THE 2.4GHz BAND

BANDEDGE (LOW CHANNEL, CH 1)



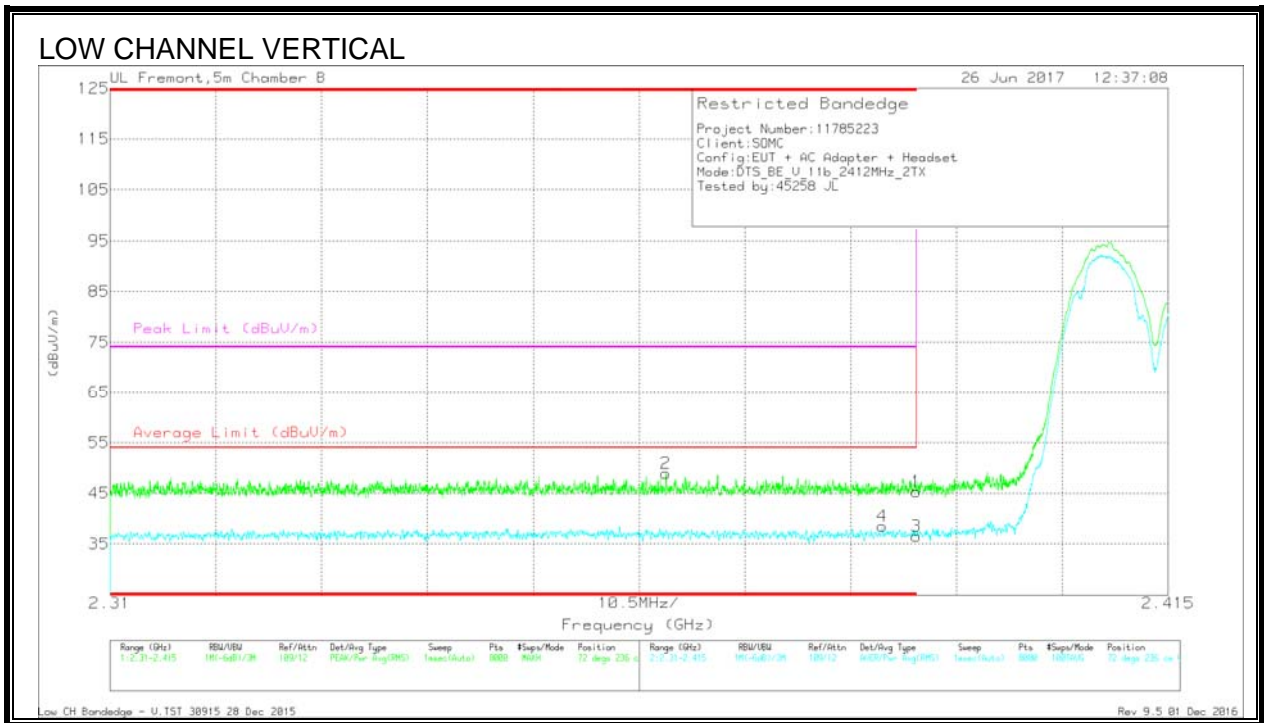
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T34E (dB/m)	Amp/Cb/Flt/Psd (dB)	DC Corr (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	35.04	Pk	32	-21.3	0	45.74	-	-	74	-28.26	273	378	H
2	* 2.382	38.15	Pk	31.9	-21.3	0	48.75	-	-	74	-25.25	273	378	H
3	* 2.39	25.89	RMS	32	-21.3	0	36.59	54	-17.41	-	-	273	378	H
4	* 2.38	27.12	RMS	31.9	-21.2	0	37.82	54	-16.18	-	-	273	378	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

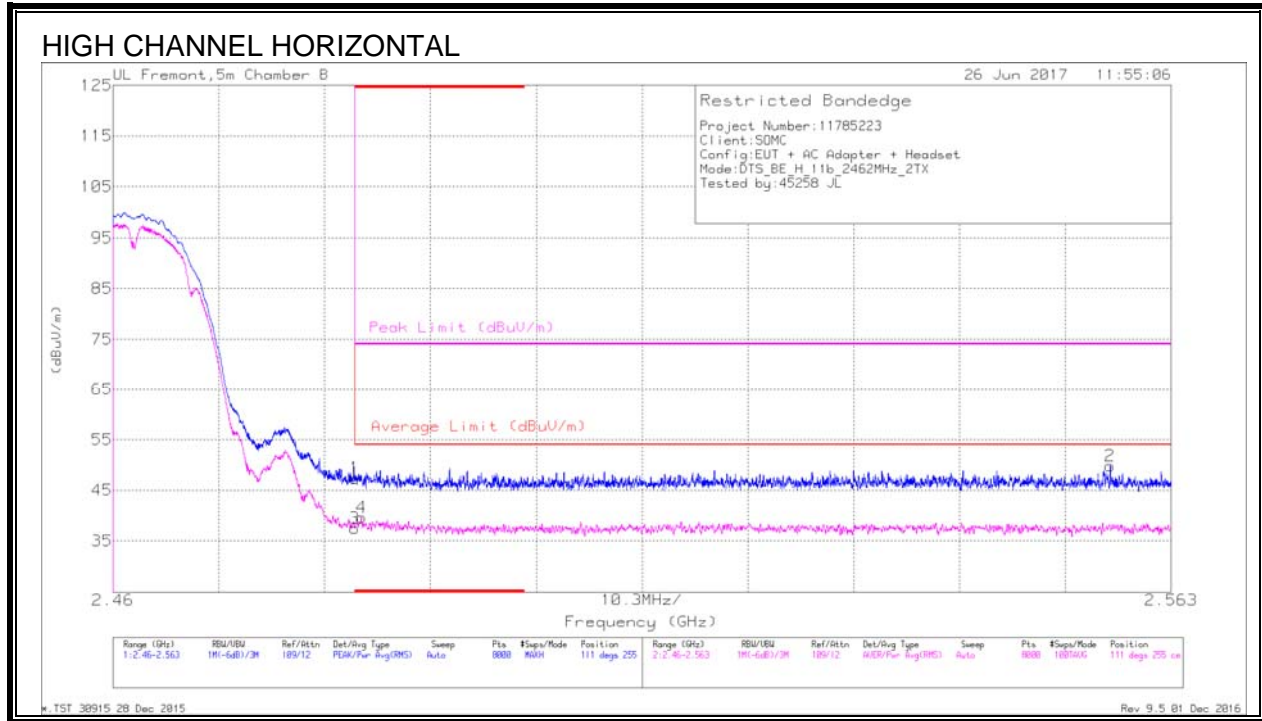
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Af T346 (dB/m)	Amp/Cb/Fit/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	34.57	Pk	32	-21.2	0	45.37	-	-	74	-28.63	72	236	V
2	* 2.365	38.14	Pk	31.9	-21.1	0	48.94	-	-	74	-25.06	72	236	V
3	* 2.39	25.75	RMS	32	-21.2	0	36.55	54	-17.45	-	-	72	236	V
4	* 2.387	27.76	RMS	31.9	-21.2	0	38.46	54	-15.54	-	-	72	236	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 11)



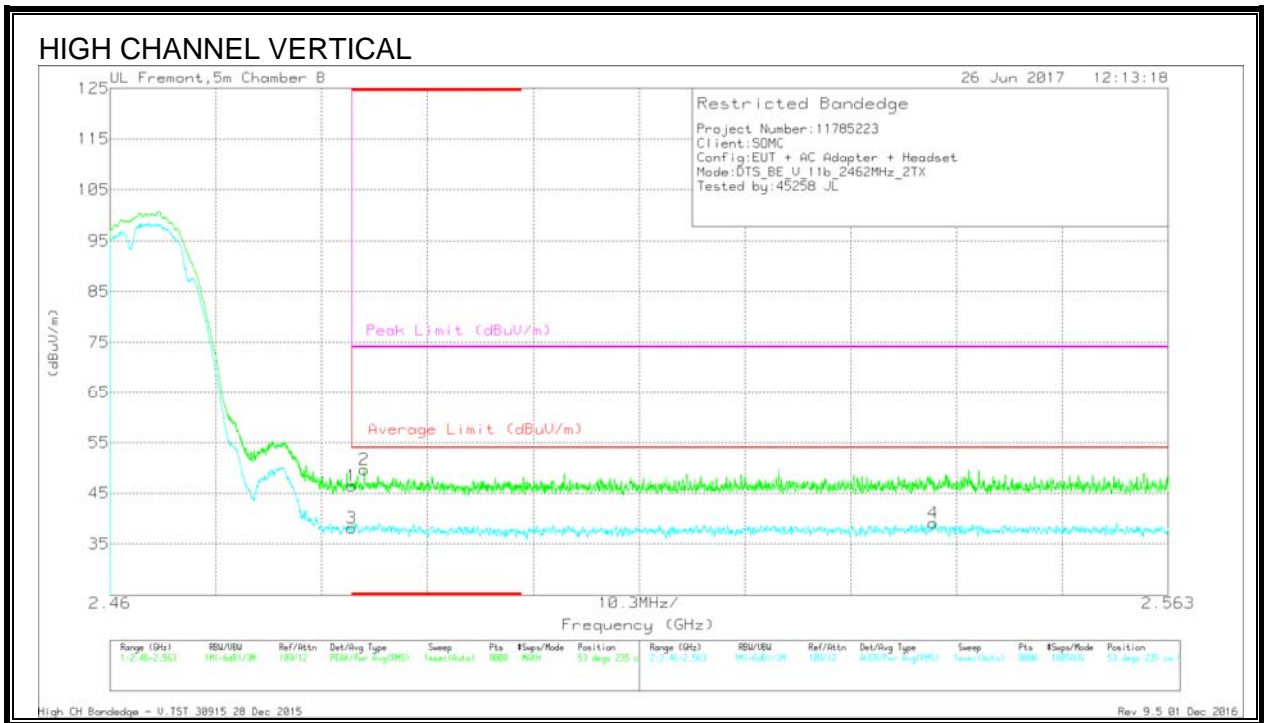
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/CbI/Fit/Pad (dB)	DC Corr (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	36.47	Pk	32.1	-21.2	0	47.37	-	-	74	-26.63	111	255	H
3	* 2.484	26.61	RMS	32.1	-21.2	0	37.51	54	-16.49	-	-	111	255	H
4	* 2.484	28.66	RMS	32.1	-21.2	0	39.56	54	-14.44	-	-	111	255	H
2	2.557	38.76	Pk	32.1	-21.1	0	49.76	-	-	74	-24.24	111	255	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

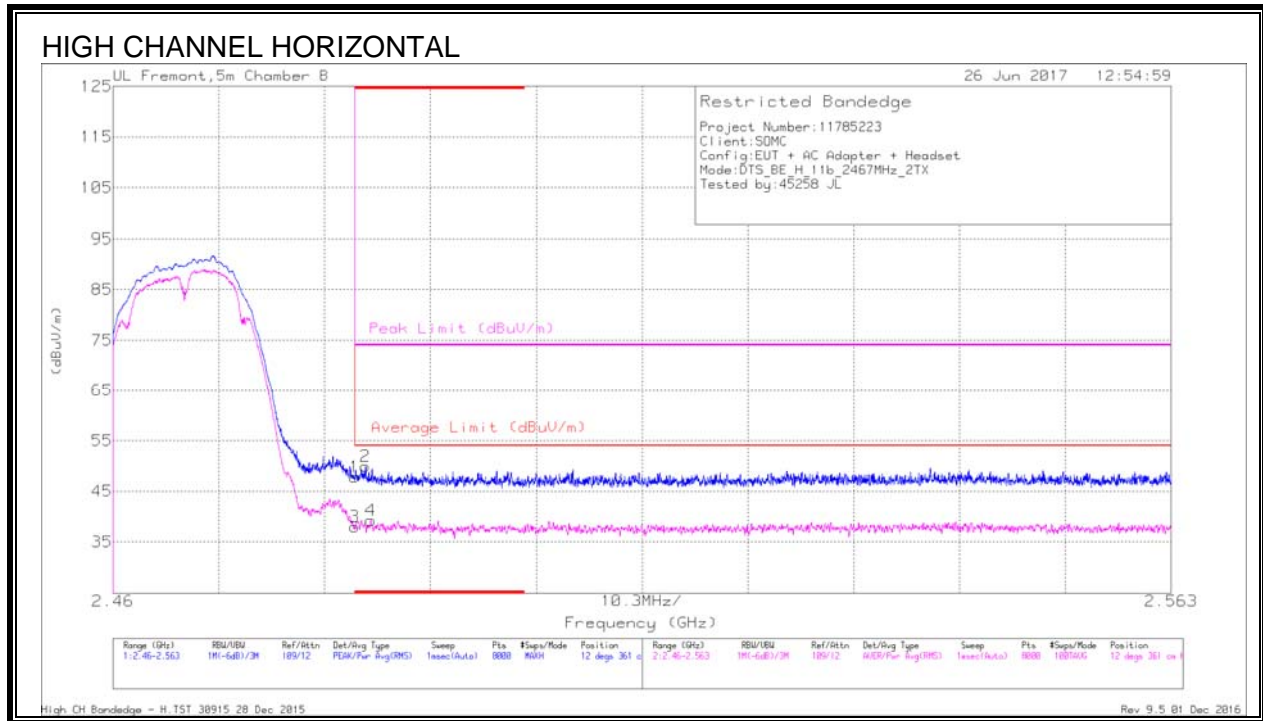
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT346 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	35.21	Pk	32.1	-20.9	46.41	-	-	74	-27.59	53	235	V
2	* 2.485	38.35	Pk	32.1	-20.8	49.65	-	-	74	-24.35	53	235	V
3	* 2.484	26.87	RMS	32.1	-20.9	38.07	54	-15.93	-	-	53	235	V
4	2.54	27.66	RMS	32.1	-20.6	39.16	54	-14.84	-	-	53	235	V

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

Pk - Peak detector

RMS - RMS detection

(HIGH CHANNEL, CH 12)



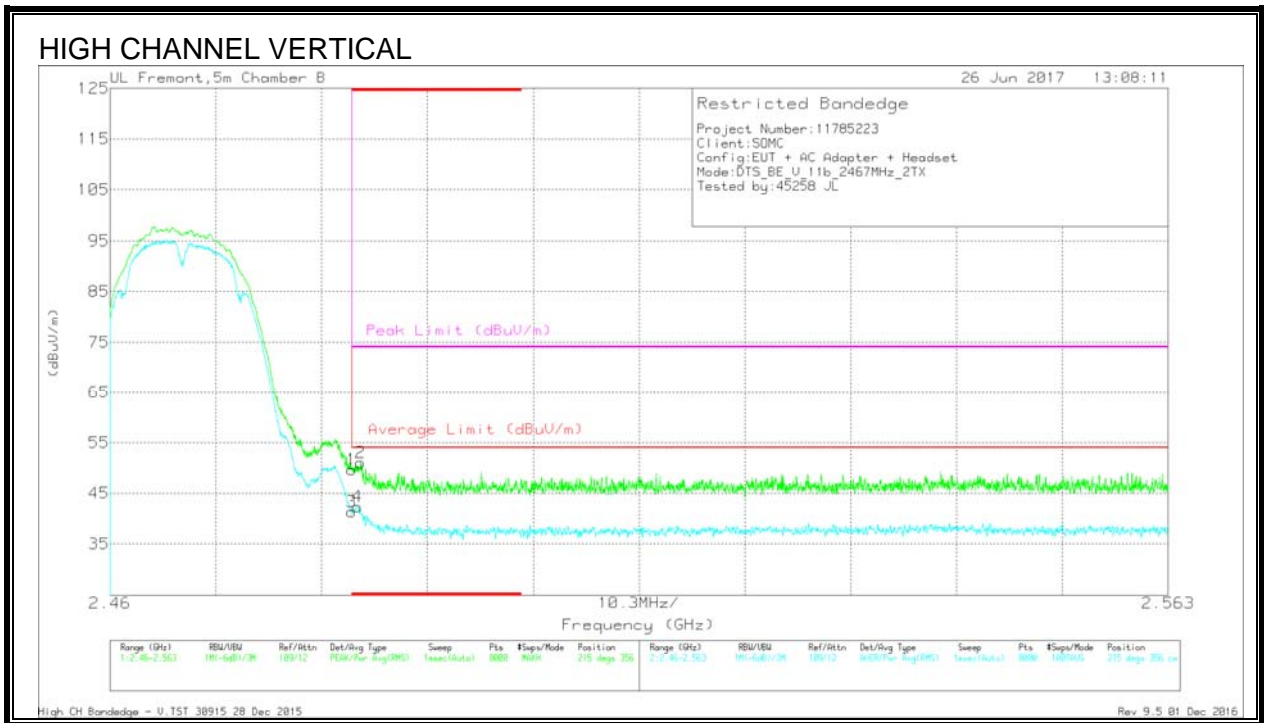
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (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	36.61	Pk	32.1	-20.9	0	47.81	-	-	74	-26.19	12	361	H
2	* 2.485	38.7	Pk	32.1	-20.9	0	49.9	-	-	74	-24.1	12	361	H
3	* 2.484	26.81	RMS	32.1	-20.9	0	38.01	54	-15.99	-	-	12	361	H
4	* 2.485	27.96	RMS	32.1	-20.8	0	39.26	54	-14.74	-	-	12	361	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

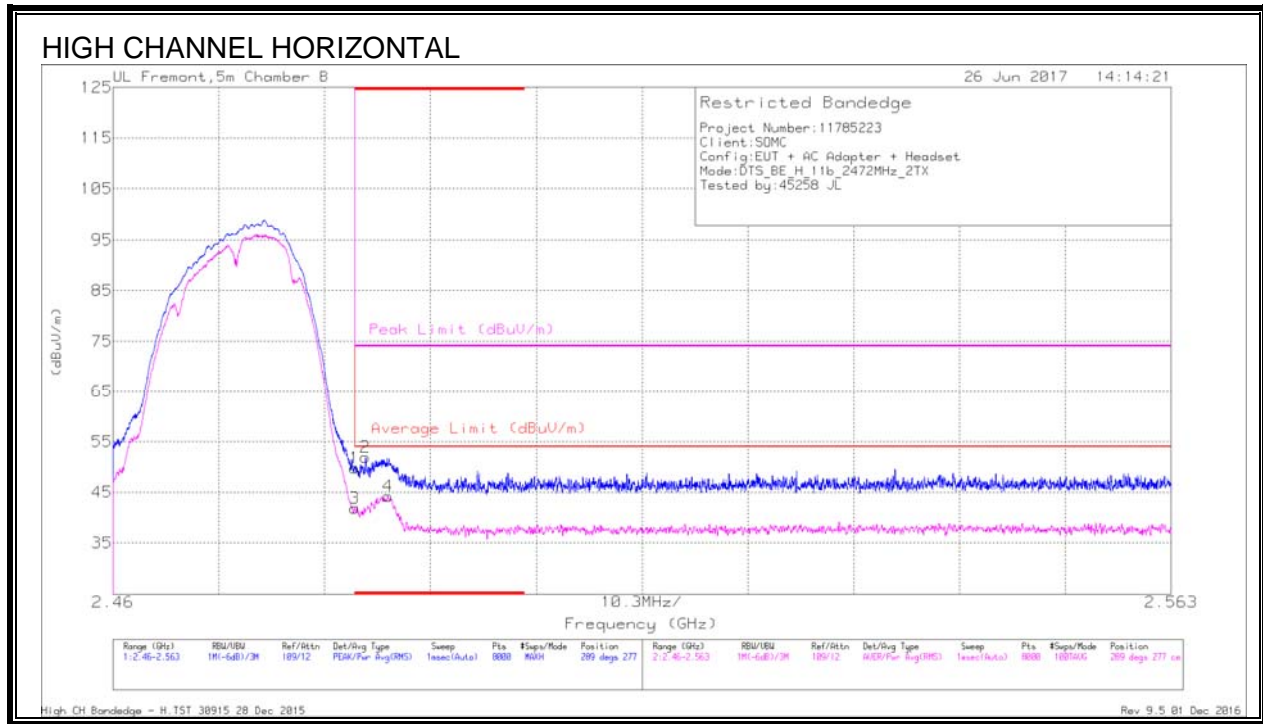
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Af T346 (dB/m)	Amp/Chl/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.43	Pk	32.1	-20.9	0	49.63	-	-	74	-24.37	215	356	V
2	* 2.484	39.88	Pk	32.1	-20.9	0	51.08	-	-	74	-22.92	215	356	V
3	* 2.484	30.16	RMS	32.1	-20.9	0	41.36	54	-12.64	-	-	215	356	V
4	* 2.484	31.17	RMS	32.1	-20.9	0	42.37	54	-11.63	-	-	215	356	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 13)



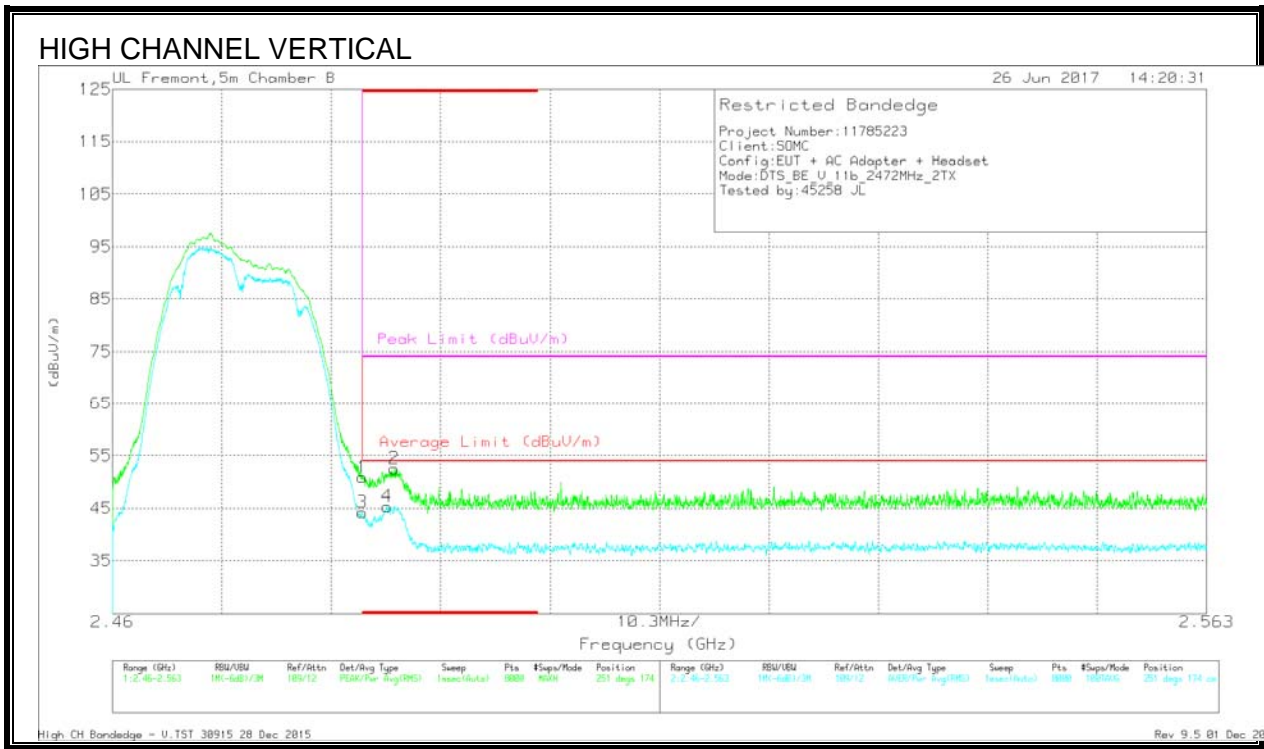
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (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	38.56	Pk	32.1	-20.9	0	49.76	-	-	74	-24.24	289	277	H
2	* 2.485	40.72	Pk	32.1	-20.9	0	51.92	-	-	74	-22.08	289	277	H
3	* 2.484	30.62	RMS	32.1	-20.9	0	41.82	54	-12.18	-	-	289	277	H
4	* 2.487	32.93	RMS	32.1	-20.8	0	44.23	54	-9.77	-	-	289	277	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

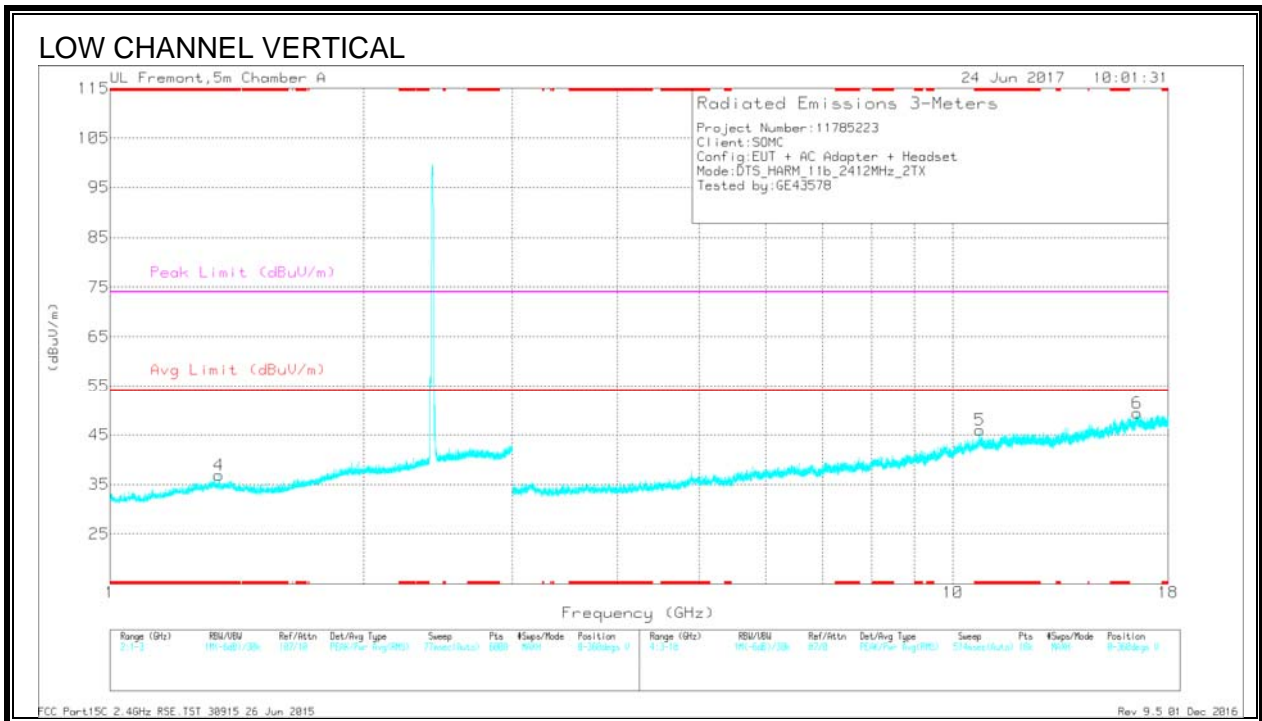
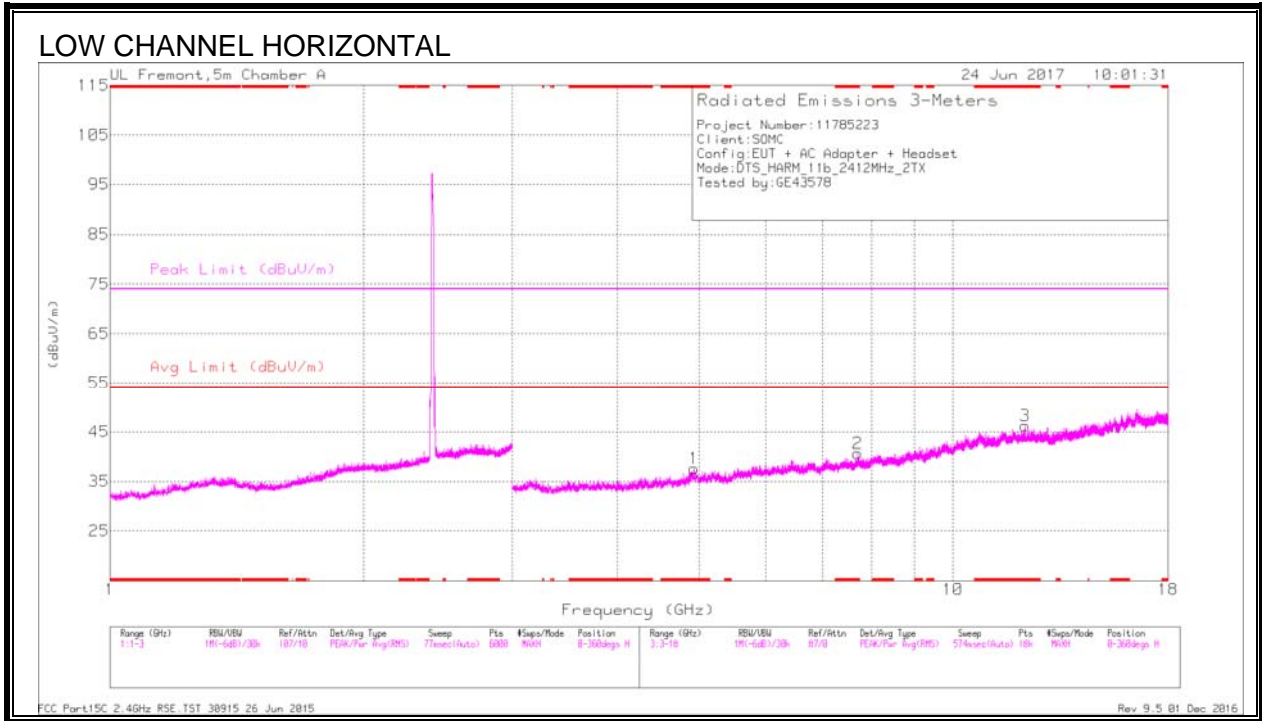
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb/Ftr/Psd (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.484	39.76	Pk	32.1	-20.9	0	50.96	-	-	74	-23.04	251	174	V
3	* 2.484	32.99	RMS	32.1	-20.9	0	44.19	54	-9.81	-	-	251	174	V
4	* 2.486	34.08	RMS	32.1	-20.8	0	45.38	54	-8.62	-	-	251	174	V
2	* 2.487	41.24	Pk	32.1	-20.8	0	52.54	-	-	74	-21.46	251	174	V

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

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, CH 1)



Radiated Emissions

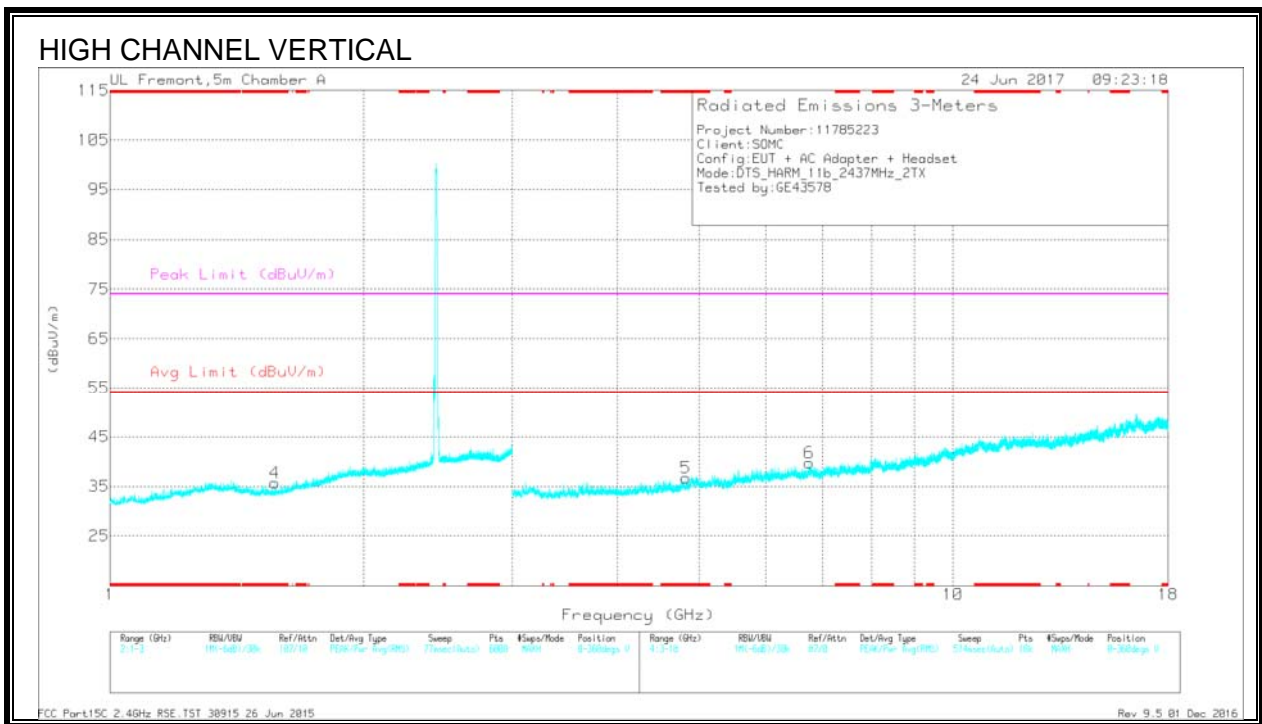
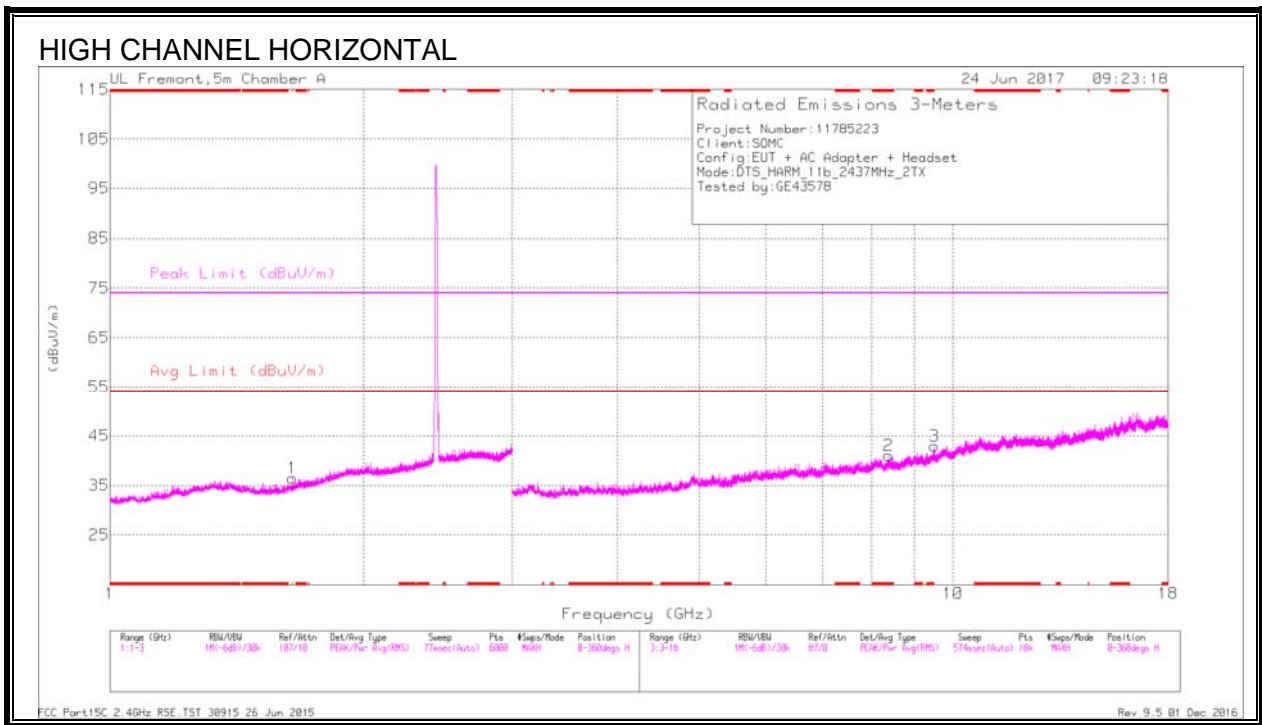
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.347	35.74	PK2	29.4	-23.9	0	41.24	-	-	74	-32.76	125	100	V
* 1.347	23.94	MAv1	29.4	-23.9	0	29.44	54	-24.56	-	-	125	100	V
* 4.929	36.95	PK2	34.1	-28	0	43.05	-	-	74	-30.95	133	115	H
* 4.928	24.87	MAv1	34.1	-27.9	0	31.07	54	-22.93	-	-	133	115	H
* 7.713	34.19	PK2	35.6	-23.6	0	46.19	-	-	74	-27.81	157	102	H
* 7.713	22.21	MAv1	35.6	-23.6	0	34.21	54	-19.79	-	-	157	102	H
* 12.187	31.87	PK2	38.8	-20.1	0	50.57	-	-	74	-23.43	8	108	H
* 12.186	20.51	MAv1	38.8	-20.1	0	39.21	54	-14.79	-	-	8	108	H
* 10.754	32.14	PK2	37.9	-19.6	0	50.44	-	-	74	-23.56	156	185	V
* 10.752	20.94	MAv1	37.9	-19.6	0	39.24	54	-14.76	-	-	156	185	V
16.535	33.32	PK2	41.7	-19	0	56.02	-	-	-	-	250	156	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, CH 6)



Radiated Emissions

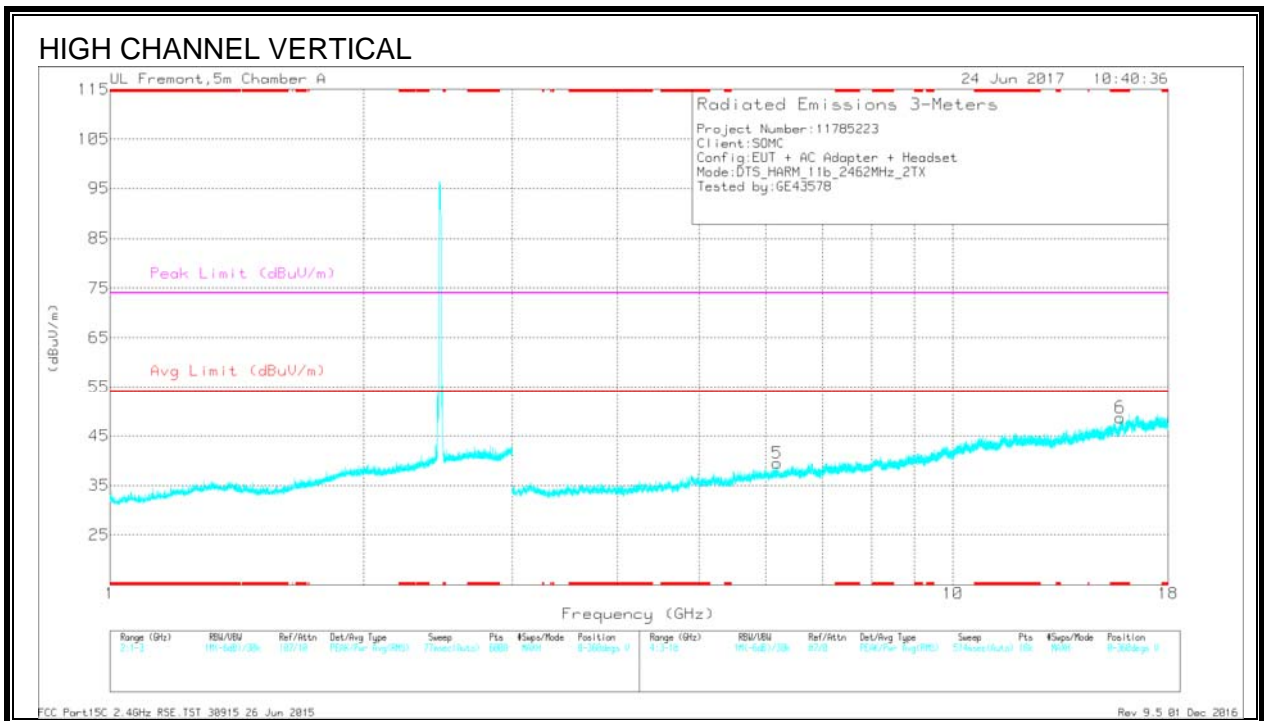
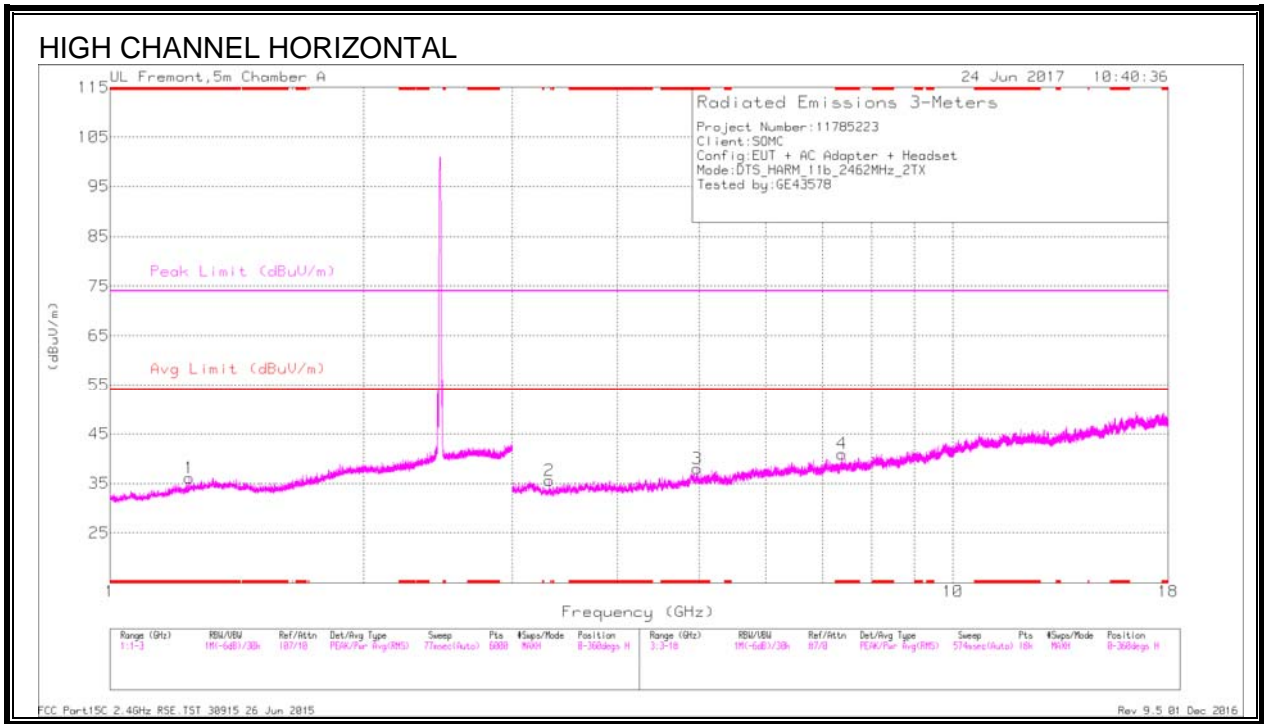
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.569	36.37	PK2	28.2	-23.7	0	40.87	-	-	74	-33.13	219	102	V
* 1.569	24.22	MAv1	28.2	-23.7	0	28.72	54	-25.28	-	-	219	102	V
* 8.383	33	PK2	35.7	-22.9	0	45.8	-	-	74	-28.2	206	108	H
* 8.381	21.81	MAv1	35.7	-22.9	0	34.61	54	-19.39	-	-	206	108	H
* 4.819	36.81	PK2	34	-28.3	0	42.51	-	-	74	-31.49	65	176	V
* 4.819	24.51	MAv1	34	-28.3	0	30.21	54	-23.79	-	-	65	176	V
1.647	36.37	PK2	28.7	-23.7	0	41.37	-	-	-	-	65	199	H
6.748	33.77	PK2	35.6	-24.7	0	44.67	-	-	-	-	10	199	V
9.503	33.13	PK2	36.5	-21.4	0	48.23	-	-	-	-	139	199	H

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, CH 11)



Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.241	35.63	PK2	29	-24	0	40.63	-	-	74	-33.37	329	100	H
* 1.241	23.82	MAv1	29	-24	0	28.82	54	-25.18	-	-	329	100	H
* 4.97	38.49	PK2	34.1	-28.5	0	44.09	-	-	74	-29.91	18	121	H
* 4.971	26.34	MAv1	34.1	-28.5	0	31.94	54	-22.06	-	-	18	121	H
* 7.38	34.67	PK2	35.5	-23.8	0	46.37	-	-	74	-27.63	208	199	H
* 7.38	22.14	MAv1	35.5	-23.8	0	33.84	54	-20.16	-	-	208	199	H
* 15.801	33.17	PK2	40.5	-19.4	0	54.27	-	-	74	-19.73	235	180	V
* 15.799	21.14	MAv1	40.5	-19.5	0	42.14	54	-11.86	-	-	235	180	V
3.319	39.62	PK2	32.8	-30.9	0	41.52	-	-	-	-	155	104	H
6.188	34.47	PK2	35.4	-26.1	0	43.77	-	-	-	-	276	102	V

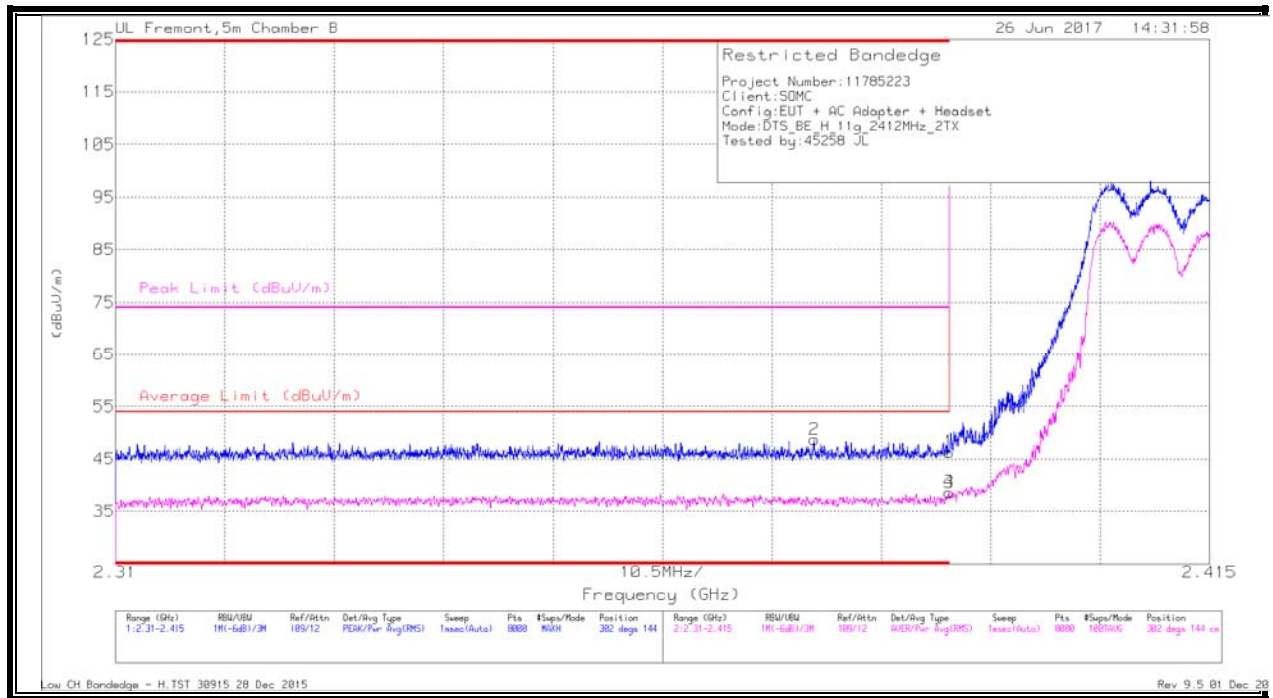
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

10.2.2 11g MIMO MODE IN THE 2.4GHz BAND

BANDEDGE (LOW CHANNEL, CH 1)



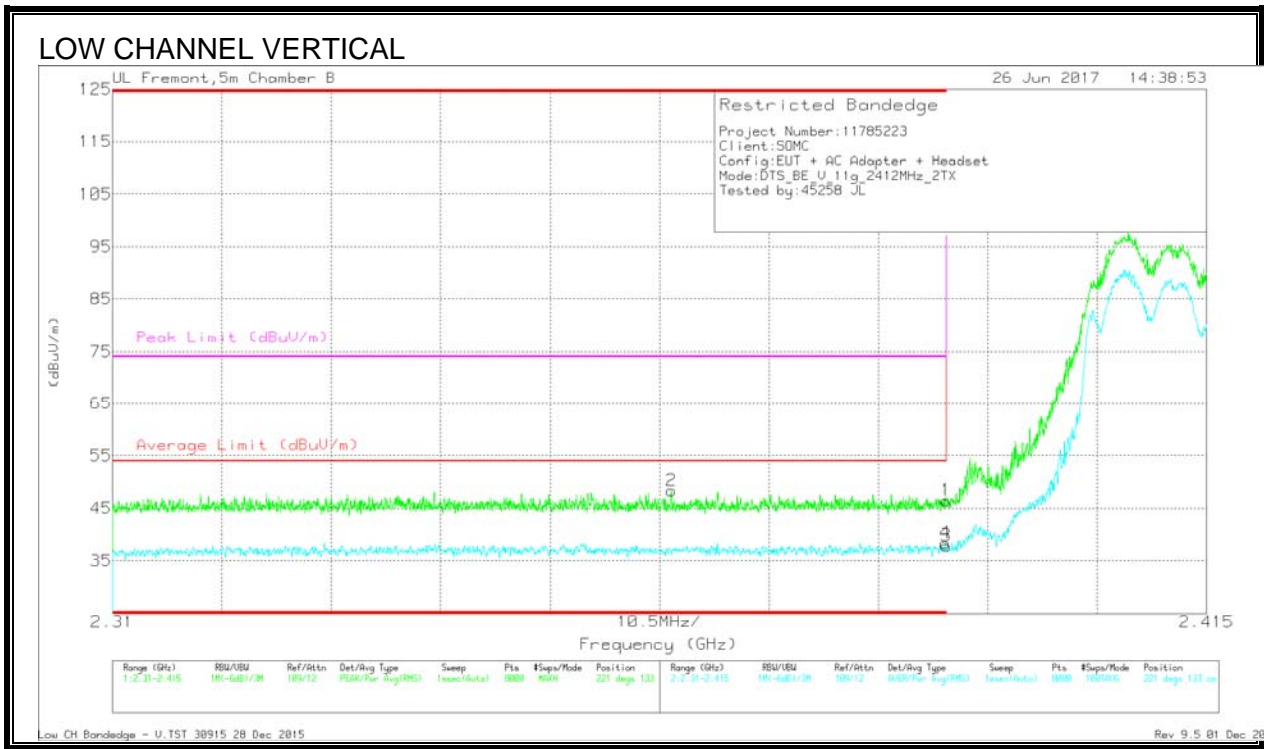
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Af T346 (dB/m)	Amp/Ch/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
2	* 2.377	37.96	Pk	31.9	-21.2	0	48.66	-	-	74	-25.34	302	144	H
1	* 2.39	35.55	Pk	32	-21.2	0	46.35	-	-	74	-27.65	302	144	H
3	* 2.39	27.53	RMS	32	-21.2	.26	38.59	54	-15.41	-	-	302	144	H
4	* 2.39	27.56	RMS	32	-21.2	.26	38.62	54	-15.38	-	-	302	144	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

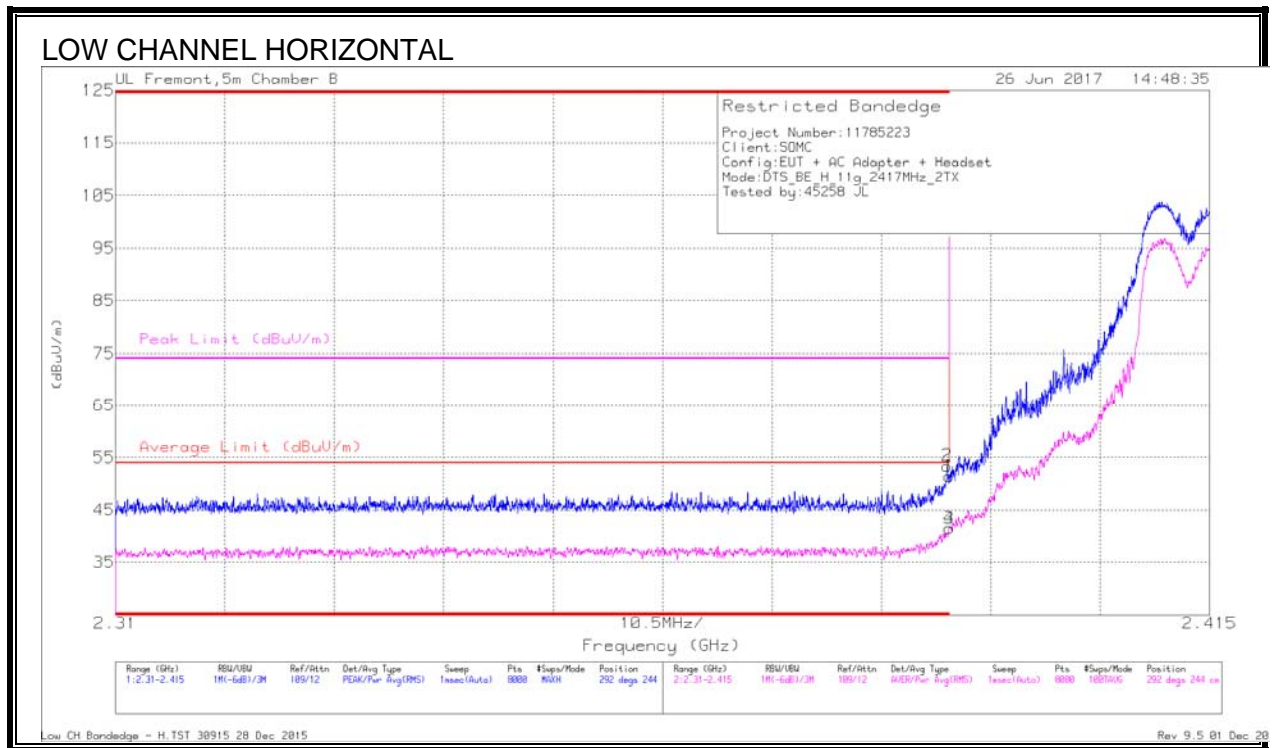
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.364	37.45	PK	31.9	-21.1	0	48.25	-	-	74	-25.75	221	133	V
1	* 2.39	35.66	PK	32	-21.2	0	46.46	-	-	74	-27.54	221	133	V
3	* 2.39	26.87	RMS	32	-21.2	.26	37.93	54	-16.07	-	-	221	133	V
4	* 2.39	27.35	RMS	32	-21.2	.26	38.41	54	-15.59	-	-	221	133	V

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

PK - Peak detector

RMS - RMS detection

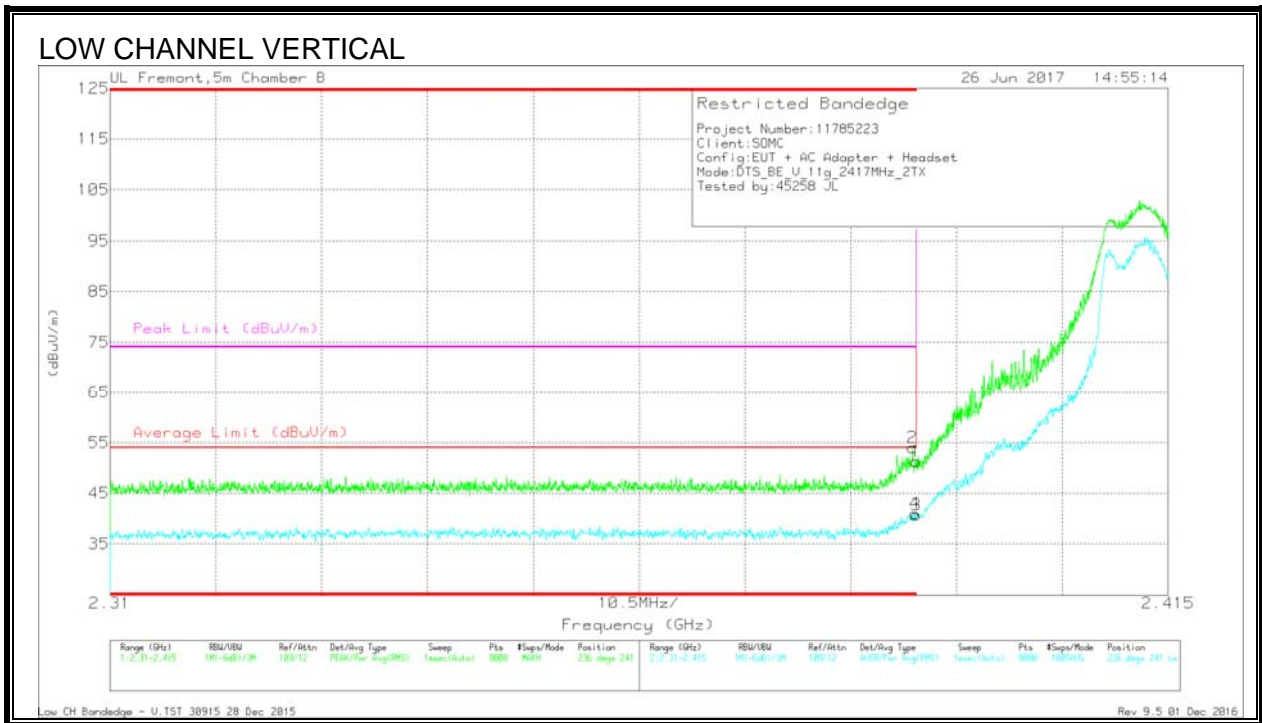
BANDEDGE (LOW CHANNEL, CH 2)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Az T346 (dB/m)	Amp/Ch/Flr/Pad (dB)	DC Corr (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	40.65	Pk	32	-21.2	0	51.45	-	-	74	-22.55	292	244	H
2	* 2.39	42.61	Pk	32	-21.2	0	53.41	-	-	74	-20.59	292	244	H
3	* 2.39	30.45	RMS	32	-21.2	.26	41.51	54	-12.49	-	-	292	244	H
4	* 2.39	30.41	RMS	32	-21.2	.26	41.47	54	-12.53	-	-	292	244	H

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



Trace Markers

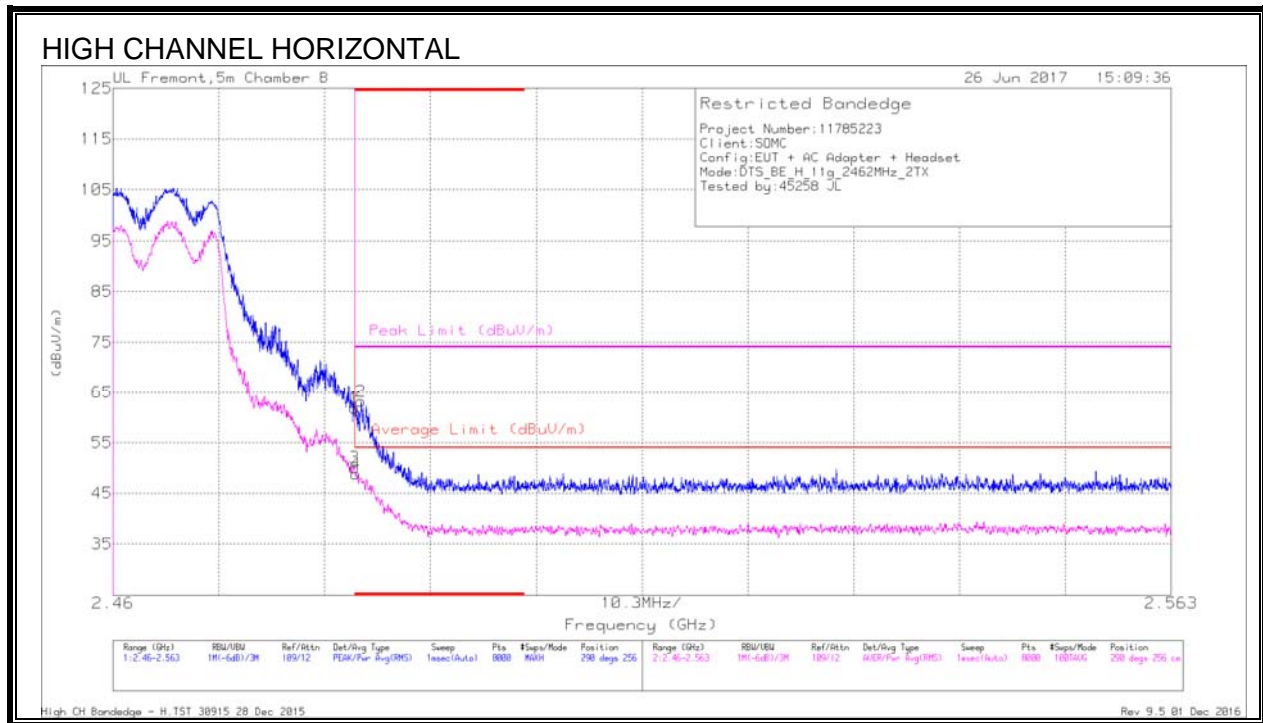
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Ch/Flt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.52	Pk	32	-21.2	0	51.32	-	-	74	-22.68	236	241	V
2	* 2.39	43.22	Pk	32	-21.2	0	54.02	-	-	74	-19.98	236	241	V
3	* 2.39	29.69	RMS	32	-21.2	.26	40.75	54	-13.25	-	-	236	241	V
4	* 2.39	29.95	RMS	32	-21.2	.26	41.01	54	-12.99	-	-	236	241	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 11)



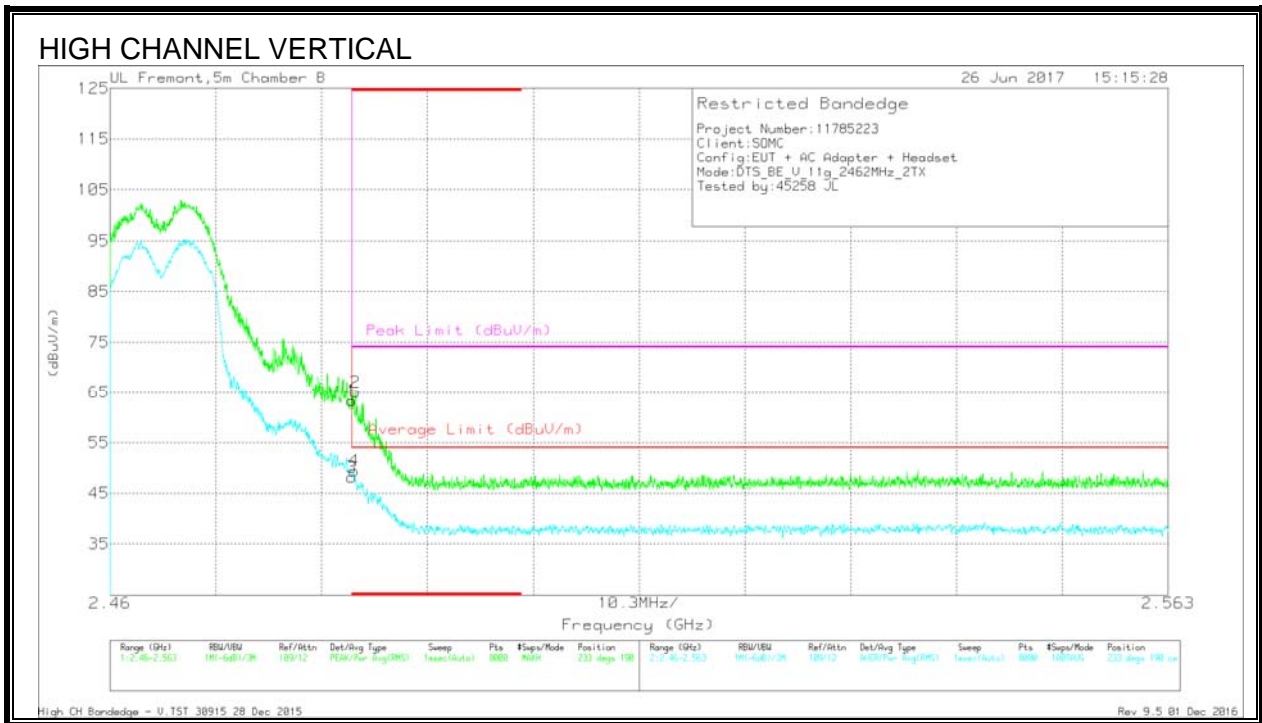
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Af T346 (dB/m)	Amp/Ch/Filt/Pad (dB)	DC Corr (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	50.7	Pk	32.1	-20.9	0	61.9	-	-	74	-12.1	290	256	H
2	* 2.484	51.98	Pk	32.1	-20.9	0	63.18	-	-	74	-10.82	290	256	H
3	* 2.484	38.56	RMS	32.1	-20.9	.26	50.02	54	-3.98	-	-	290	256	H
4	* 2.484	37.3	RMS	32.1	-20.9	.26	48.76	54	-5.24	-	-	290	256	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

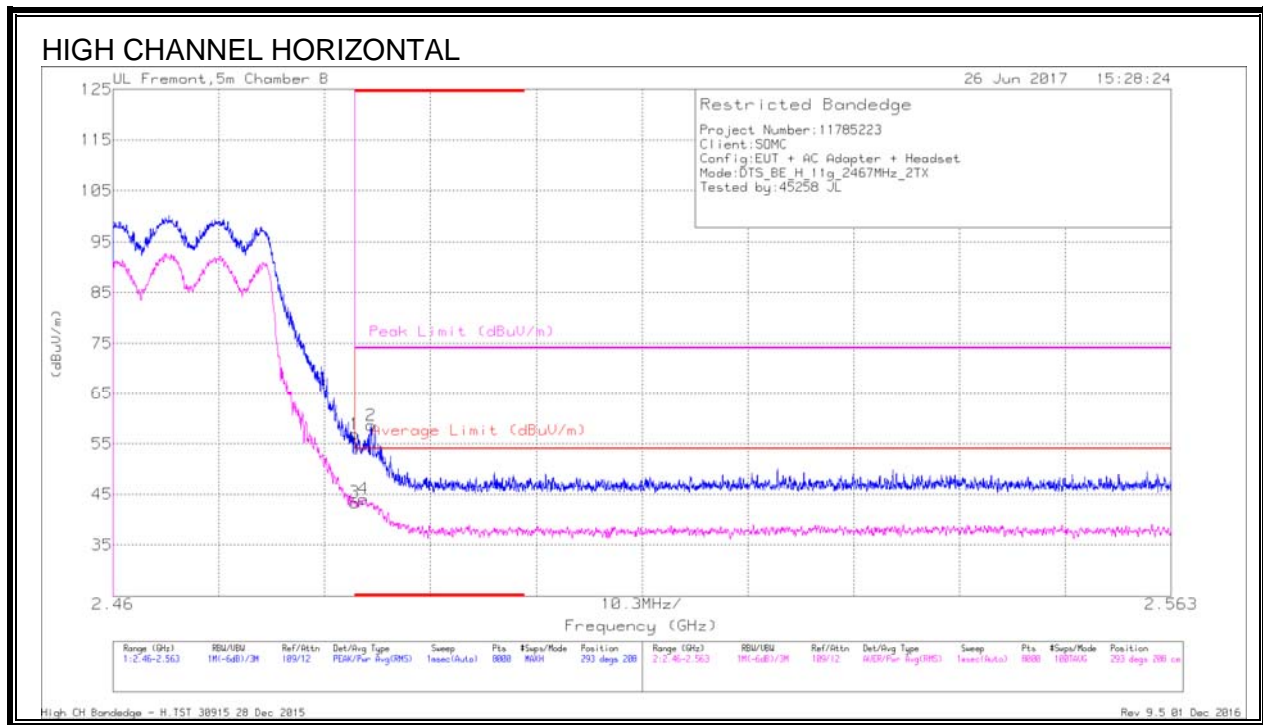
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Ch/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	52.1	Pk	32.1	-20.9	0	63.3	-	-	74	-10.7	233	190	V
2	* 2.484	53.86	Pk	32.1	-20.9	0	65.06	-	-	74	-8.94	233	190	V
3	* 2.484	36.68	RMS	32.1	-20.9	.26	48.14	54	-5.86	-	-	233	190	V
4	* 2.484	37.91	RMS	32.1	-20.9	.26	49.37	54	-4.63	-	-	233	190	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 12)



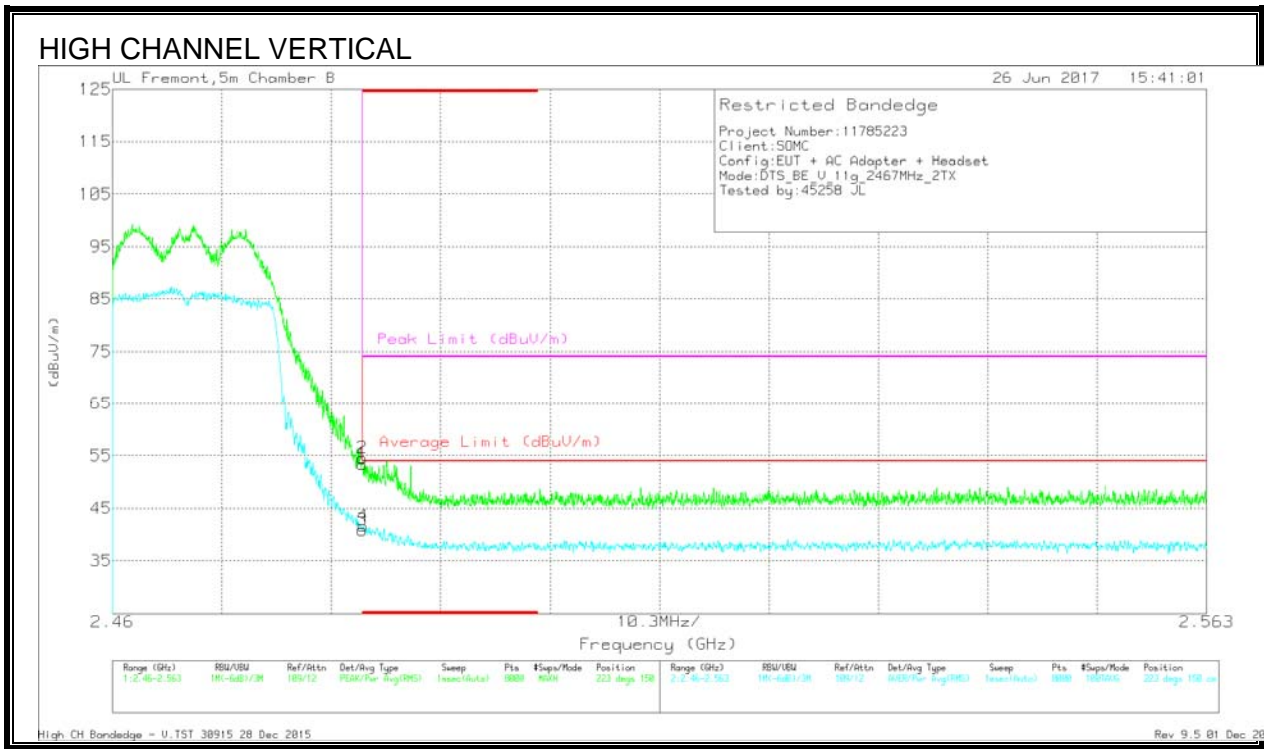
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.63	Pk	32.1	-20.9	0	56.83	-	-	74	-17.17	293	208	H
2	* 2.485	47.33	Pk	32.1	-20.8	0	58.63	-	-	74	-15.37	293	208	H
3	* 2.484	31.94	RMS	32.1	-20.9	.26	43.4	54	-10.6	-	-	293	208	H
4	* 2.484	32.57	RMS	32.1	-20.9	.26	44.03	54	-9.97	-	-	293	208	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

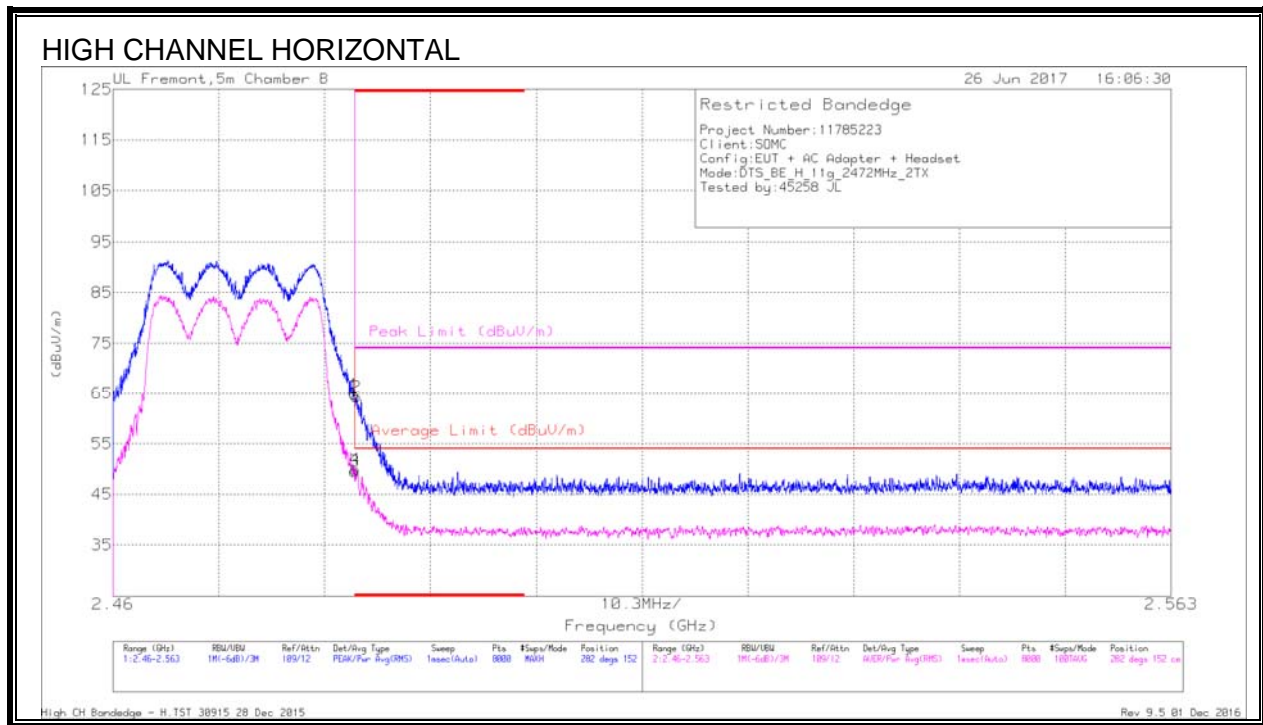
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb/Pltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.16	Pk	32.1	-20.9	0	53.36	-	-	74	-20.64	223	150	V
2	* 2.484	43.34	Pk	32.1	-20.9	0	54.54	-	-	74	-19.46	223	150	V
3	* 2.484	29.42	RMS	32.1	-20.9	.26	40.88	54	-13.12	-	-	223	150	V
4	* 2.484	30.16	RMS	32.1	-20.9	.26	41.62	54	-12.38	-	-	223	150	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 13)



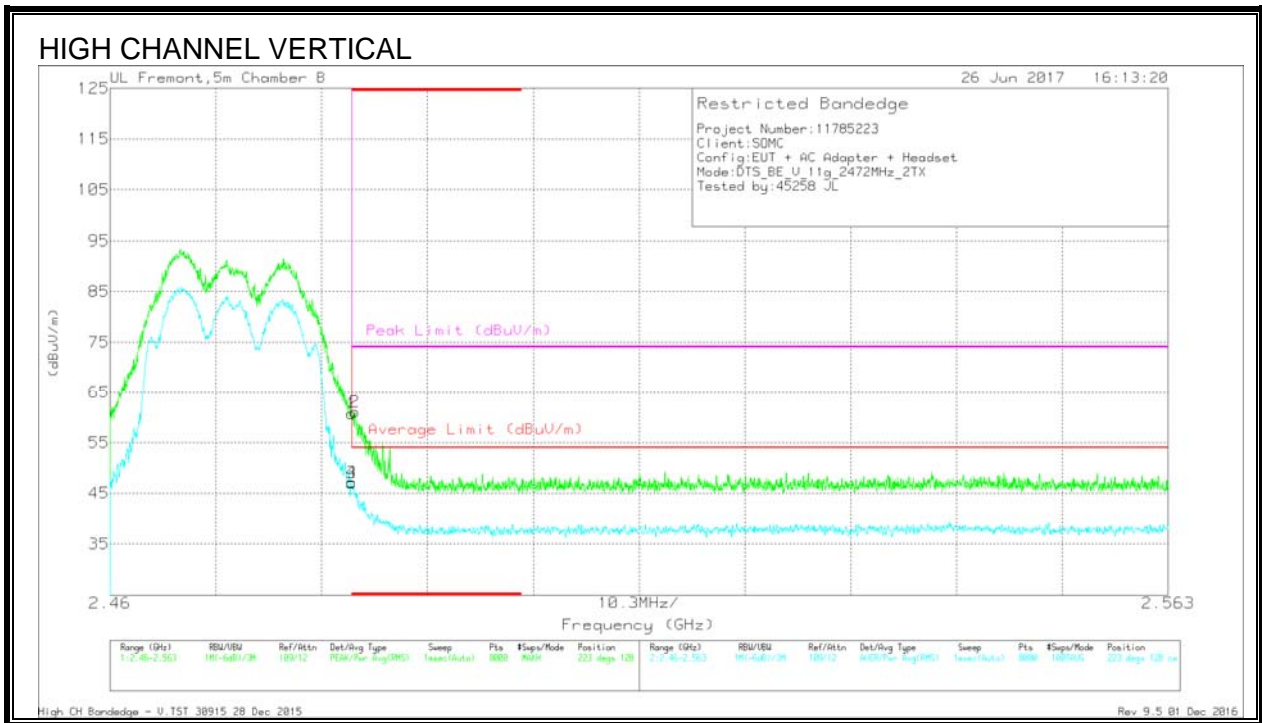
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb/Fit/Pad (dB)	DC Corr (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	53.62	Pk	32.1	-20.9	0	64.82	-	-	74	-9.18	282	152	H
2	* 2.484	53.14	Pk	32.1	-20.9	0	64.34	-	-	74	-9.66	282	152	H
3	* 2.484	38.07	RMS	32.1	-20.9	.26	49.53	54	-4.47	-	-	282	152	H
4	* 2.484	38.49	RMS	32.1	-20.9	.26	49.95	54	-4.05	-	-	282	152	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

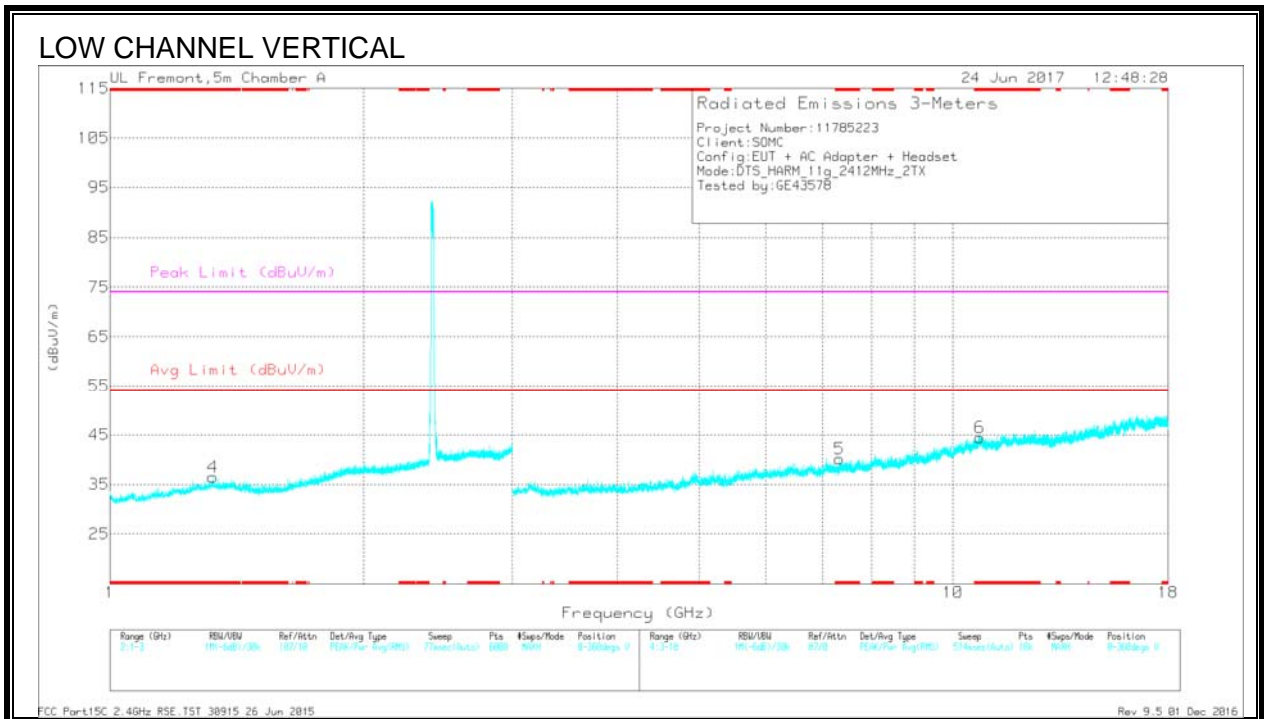
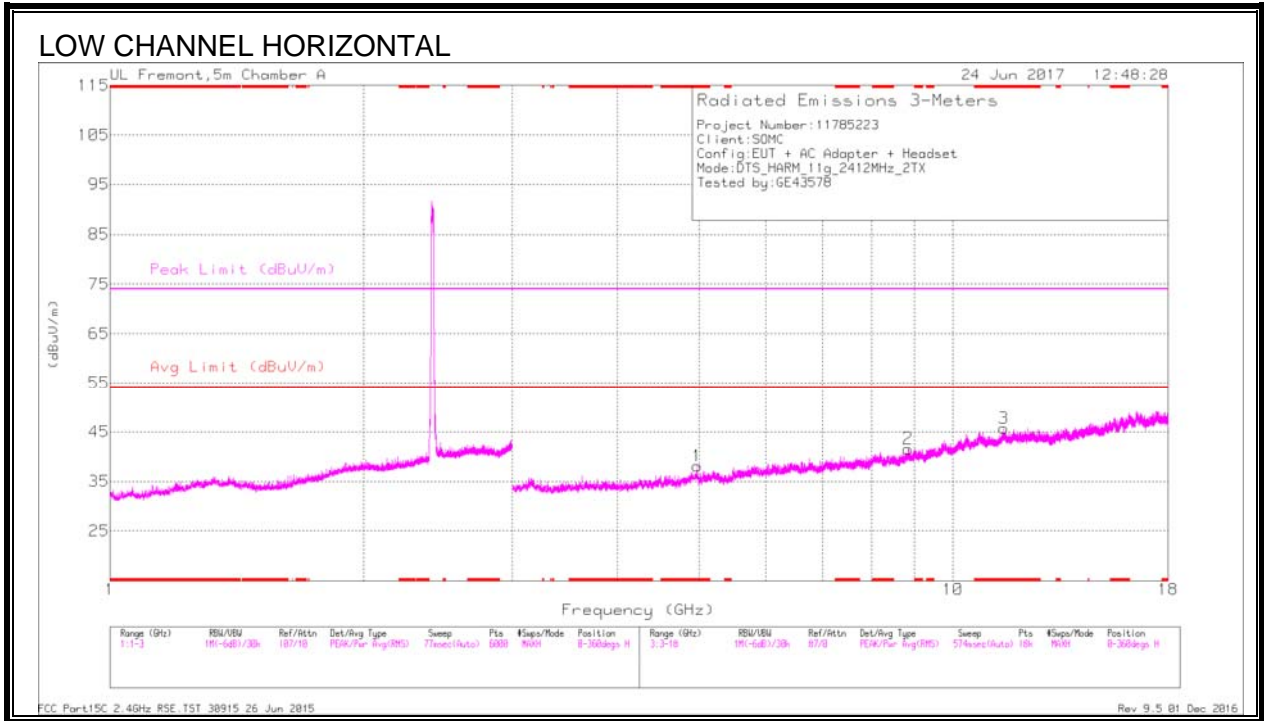
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Ch/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	49.56	Pk	32.1	-20.9	0	60.76	-	-	74	-13.24	223	128	V
2	* 2.484	49.87	Pk	32.1	-20.9	0	61.07	-	-	74	-12.93	223	128	V
3	* 2.484	35.62	RMS	32.1	-20.9	.26	47.08	54	-6.92	-	-	223	128	V
4	* 2.484	35.73	RMS	32.1	-20.9	.26	47.19	54	-6.81	-	-	223	128	V

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

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, CH 1)



Radiated Emissions

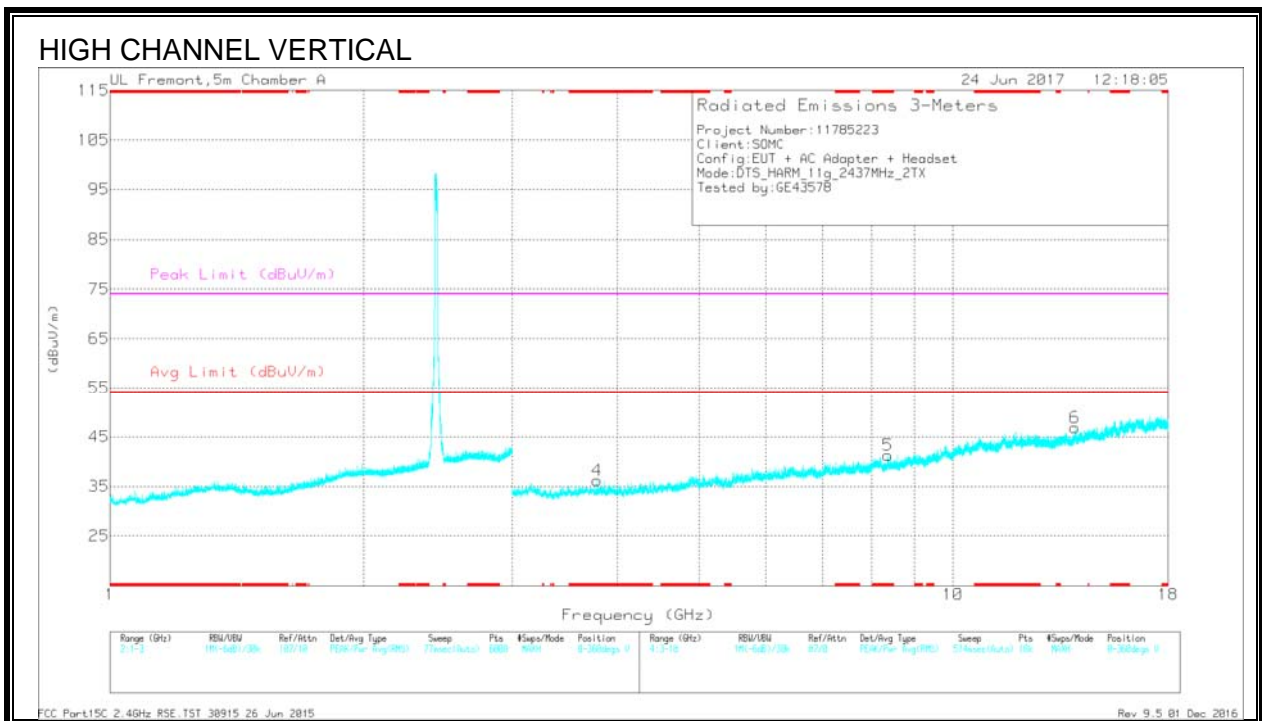
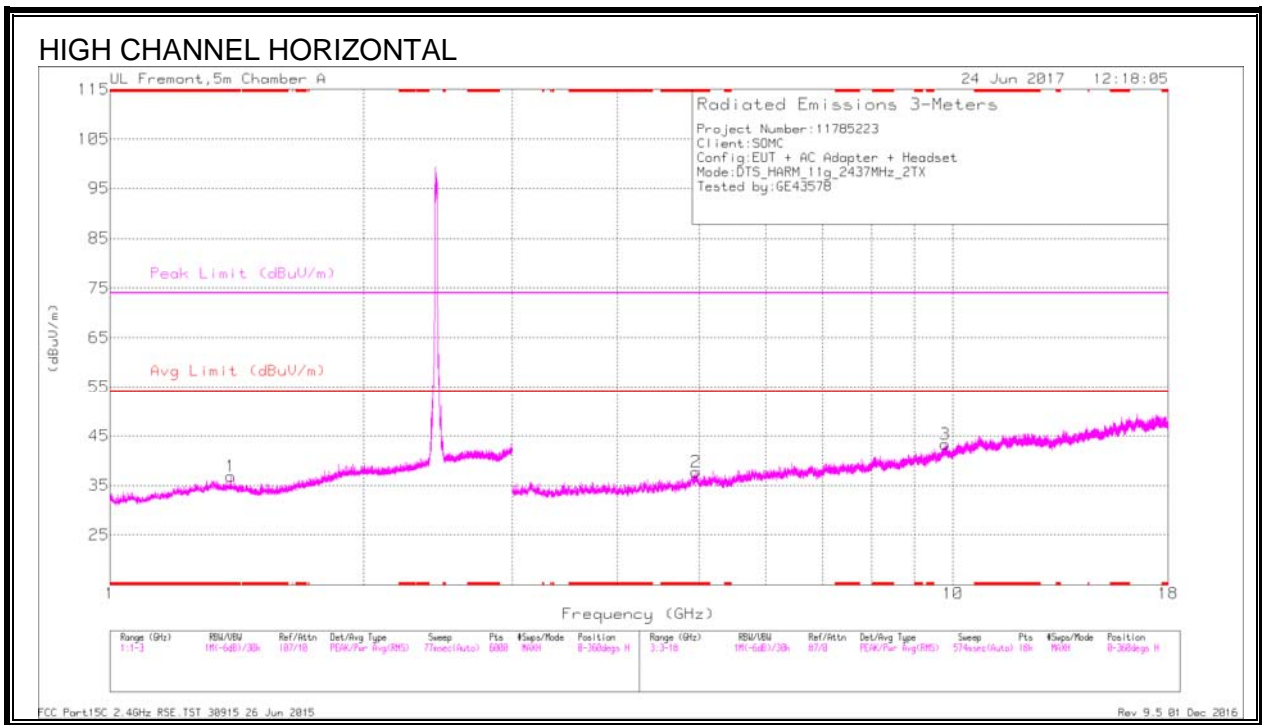
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.324	36.64	PK2	29.5	-23.8	0	42.34	-	-	74	-31.66	45	101	V
* 1.325	24.71	MAv1	29.5	-23.8	.26	30.67	54	-23.33	-	-	45	101	V
* 4.974	38.31	PK2	34.1	-28.5	0	43.91	-	-	74	-30.09	15	101	H
* 4.974	26.49	MAv1	34.1	-28.5	.26	32.35	54	-21.65	-	-	15	101	H
* 11.495	32.52	PK2	38.1	-19.3	0	51.32	-	-	74	-22.68	19	102	H
* 11.496	21.24	MAv1	38.1	-19.3	.26	40.3	54	-13.7	-	-	19	102	H
* 7.333	33.96	PK2	35.5	-24.7	0	44.76	-	-	74	-29.24	221	212	V
* 7.332	23.23	MAv1	35.5	-24.8	.26	34.19	54	-19.81	-	-	221	212	V
* 10.756	33.05	PK2	37.9	-19.6	0	51.35	-	-	74	-22.65	302	201	V
* 10.757	21.76	MAv1	37.9	-19.7	.26	40.22	54	-13.78	-	-	302	201	V
8.846	33.43	PK2	35.9	-22.3	0	47.03	-	-	-	-	84	115	H

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, CH 6)



Radiated Emissions

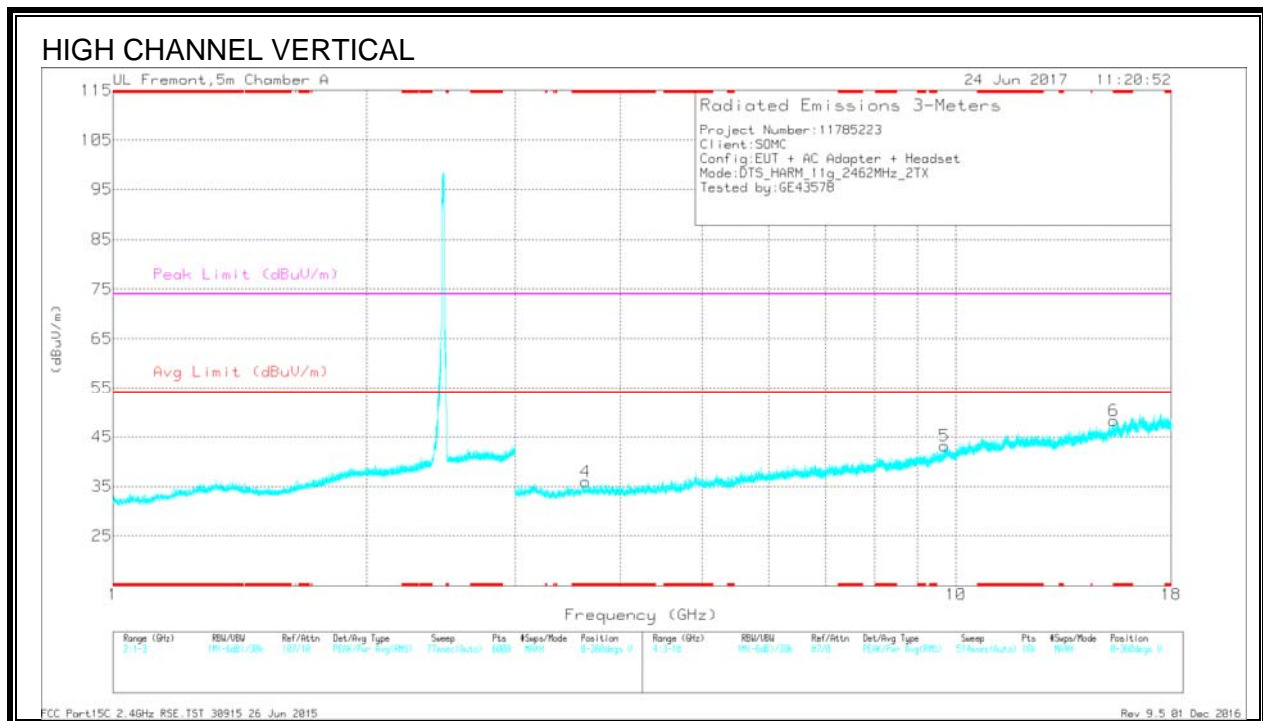
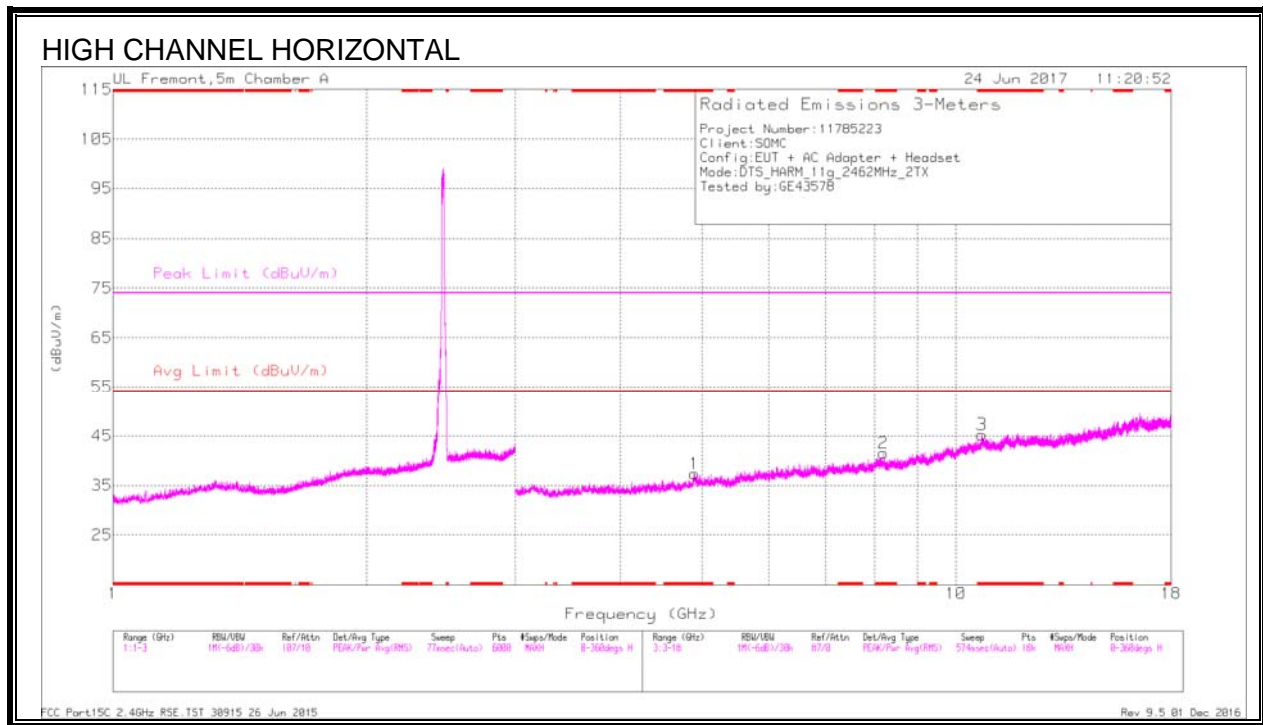
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.389	36.24	PK2	29.3	-23.7	0	41.84	-	-	74	-32.16	35	199	H
* 1.39	24.66	MAv1	29.3	-23.7	.26	30.52	54	-23.48	-	-	35	199	H
* 4.957	37.85	PK2	34.1	-28.2	0	43.75	-	-	74	-30.25	29	178	H
* 4.955	25.78	MAv1	34.1	-28.2	.26	31.94	54	-22.06	-	-	29	178	H
* 3.78	38.22	PK2	33.1	-30.3	0	41.02	-	-	74	-32.98	179	102	V
* 3.781	27.61	MAv1	33.1	-30.3	.26	30.67	54	-23.33	-	-	179	102	V
* 8.377	33.75	PK2	35.7	-23	0	46.45	-	-	74	-27.55	55	133	V
* 8.376	22.63	MAv1	35.7	-23	.26	35.59	54	-18.41	-	-	55	133	V
9.79	33.25	PK2	36.9	-21.1	0	49.05	-	-	-	-	118	145	H
13.963	34.01	PK2	38.7	-19.6	0	53.11	-	-	-	-	7	200	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, CH 11)



Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.894	37.22	PK2	34	-27.3	0	43.92	-	-	74	-30.08	302	204	H
* 4.894	25.22	MAv1	34	-27.2	.26	32.28	54	-21.72	-	-	302	204	H
* 8.198	33.91	PK2	35.7	-22.5	0	47.11	-	-	74	-26.89	182	201	H
* 8.199	21.72	MAv1	35.7	-22.5	.26	35.18	54	-18.82	-	-	182	201	H
* 10.734	33.23	PK2	37.9	-20	0	51.13	-	-	74	-22.87	5	111	H
* 10.733	21.04	MAv1	37.9	-20	.26	39.2	54	-14.8	-	-	5	111	H
* 3.635	38.46	PK2	33.1	-30.4	0	41.16	-	-	74	-32.84	13	170	V
* 3.636	26.5	MAv1	33.1	-30.4	.26	29.46	54	-24.54	-	-	13	170	V
* 15.378	33.37	PK2	40.1	-19.6	0	53.87	-	-	74	-20.13	241	102	V
* 15.376	21.08	MAv1	40.1	-19.7	.26	41.74	54	-12.26	-	-	241	102	V
9.692	32.54	PK2	36.7	-21.2	0	48.04	-	-	-	-	9	142	V

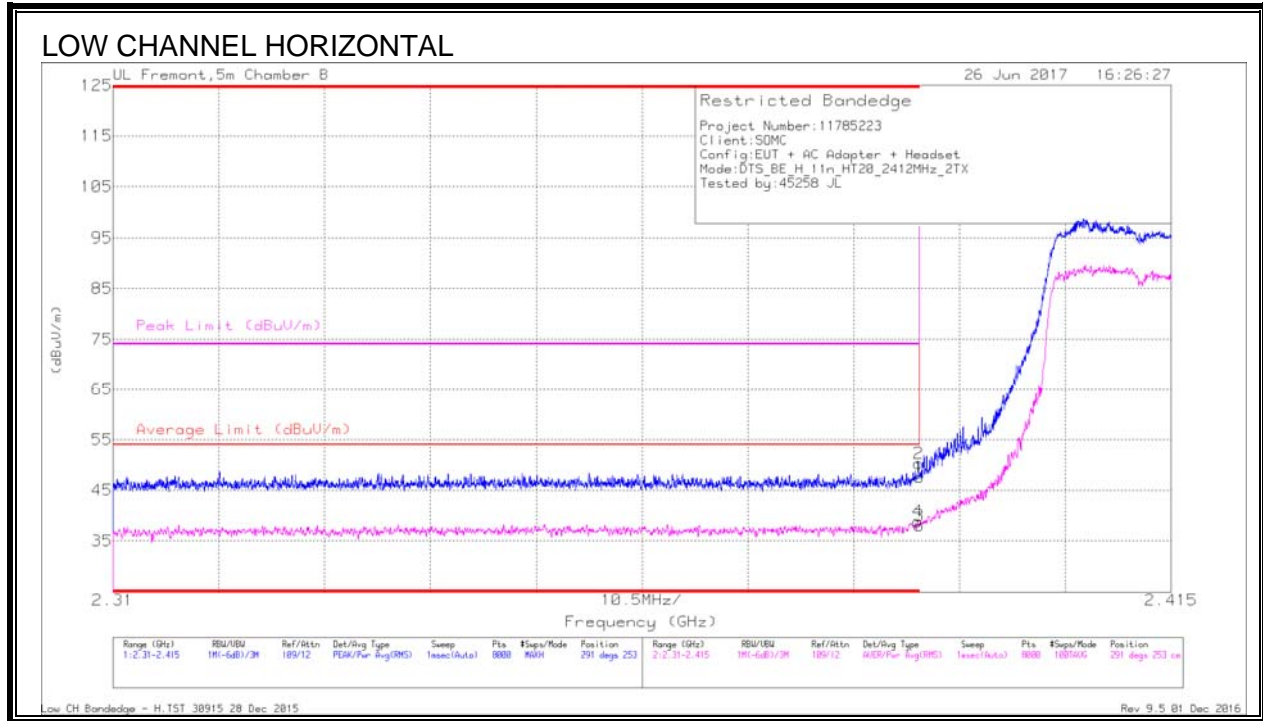
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

10.2.3 11n-HT20 MIMO MODE IN THE 2.4GHz BAND

BANDEDGE (LOW CHANNEL, CH 1)



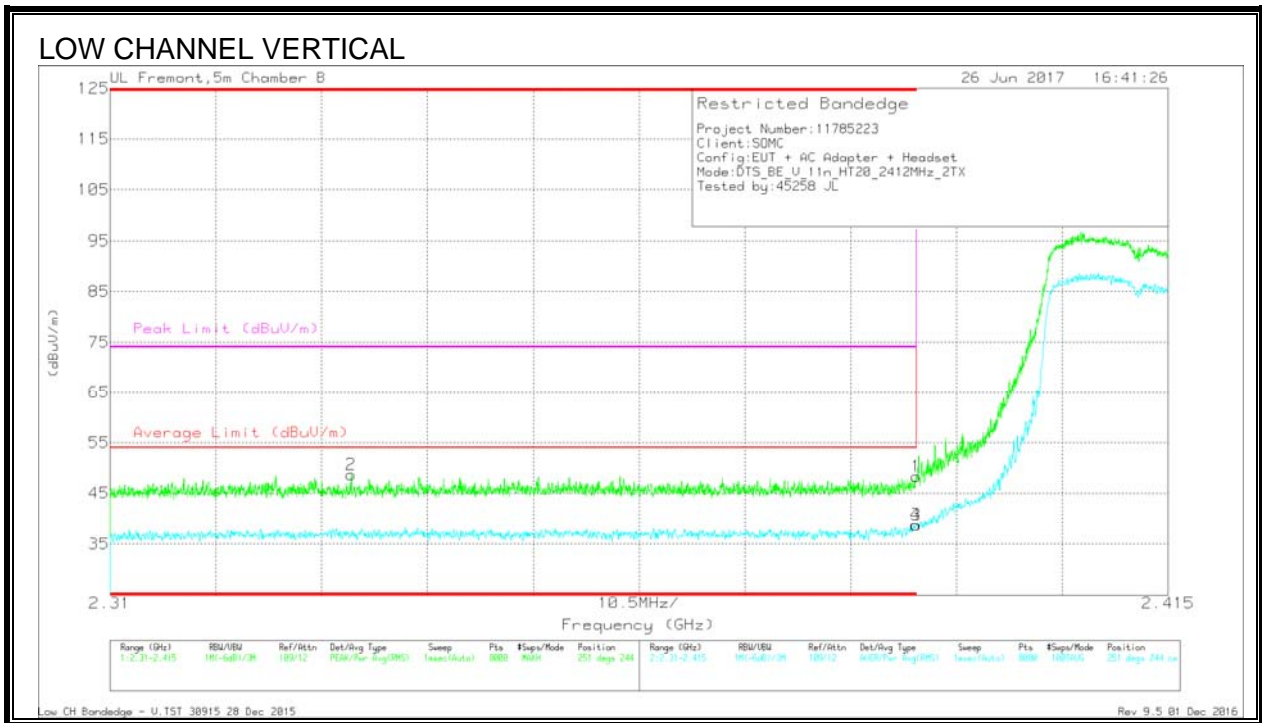
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Af T346 (dB/m)	Amp/Ch/Fltr/Pad (dB)	DC Corr (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	36.81	Pk	32	-21.2	0	47.61	-	-	74	-26.39	291	253	H
2	* 2.39	39.51	Pk	32	-21.2	0	50.31	-	-	74	-23.69	291	253	H
3	* 2.39	26.94	RMS	32	-21.2	.21	37.95	54	-16.05	-	-	291	253	H
4	* 2.39	27.83	RMS	32	-21.2	.21	38.84	54	-15.16	-	-	291	253	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

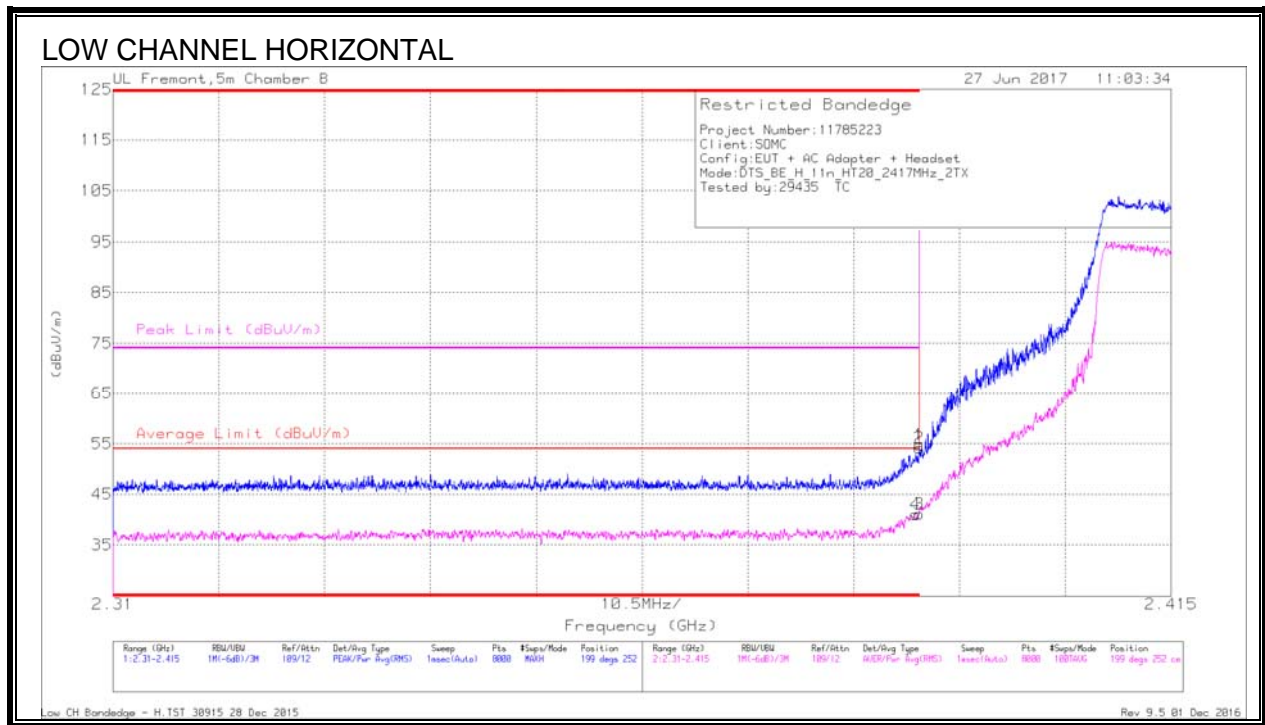
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Chl/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.49	Pk	32	-21.2	0	48.29	-	-	74	-25.71	251	244	V
2	* 2.334	37.97	Pk	31.8	-21.1	0	48.67	-	-	74	-25.33	251	244	V
3	* 2.39	27.73	RMS	32	-21.2	.21	38.74	54	-15.26	-	-	251	244	V
4	* 2.39	27.79	RMS	32	-21.2	.21	38.8	54	-15.2	-	-	251	244	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (LOW CHANNEL, CH 2)



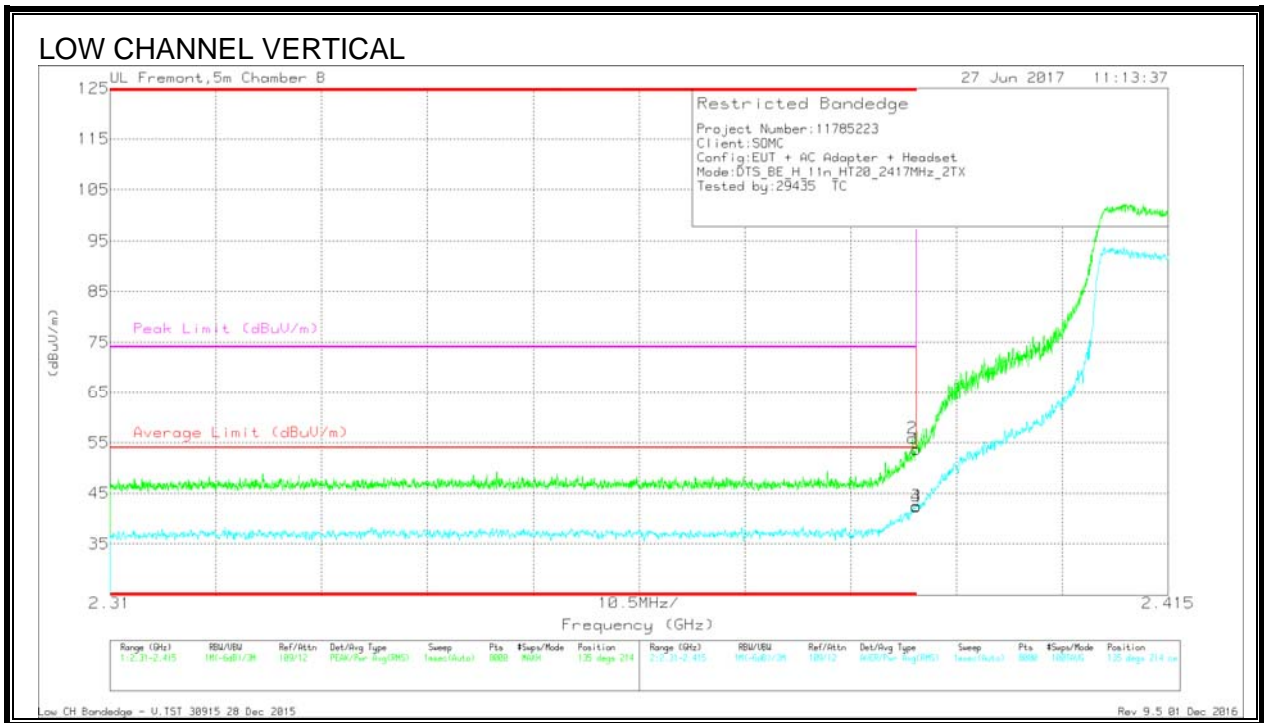
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	43.94	Pk	32	-21.2	0	54.74	-	-	74	-19.26	199	252	H
2	* 2.39	43.34	Pk	32	-21.2	0	54.14	-	-	74	-19.86	199	252	H
3	* 2.39	30.33	RMS	32	-21.2	.21	41.34	54	-12.66	-	-	199	252	H
4	* 2.39	30.2	RMS	32	-21.2	.21	41.21	54	-12.79	-	-	199	252	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

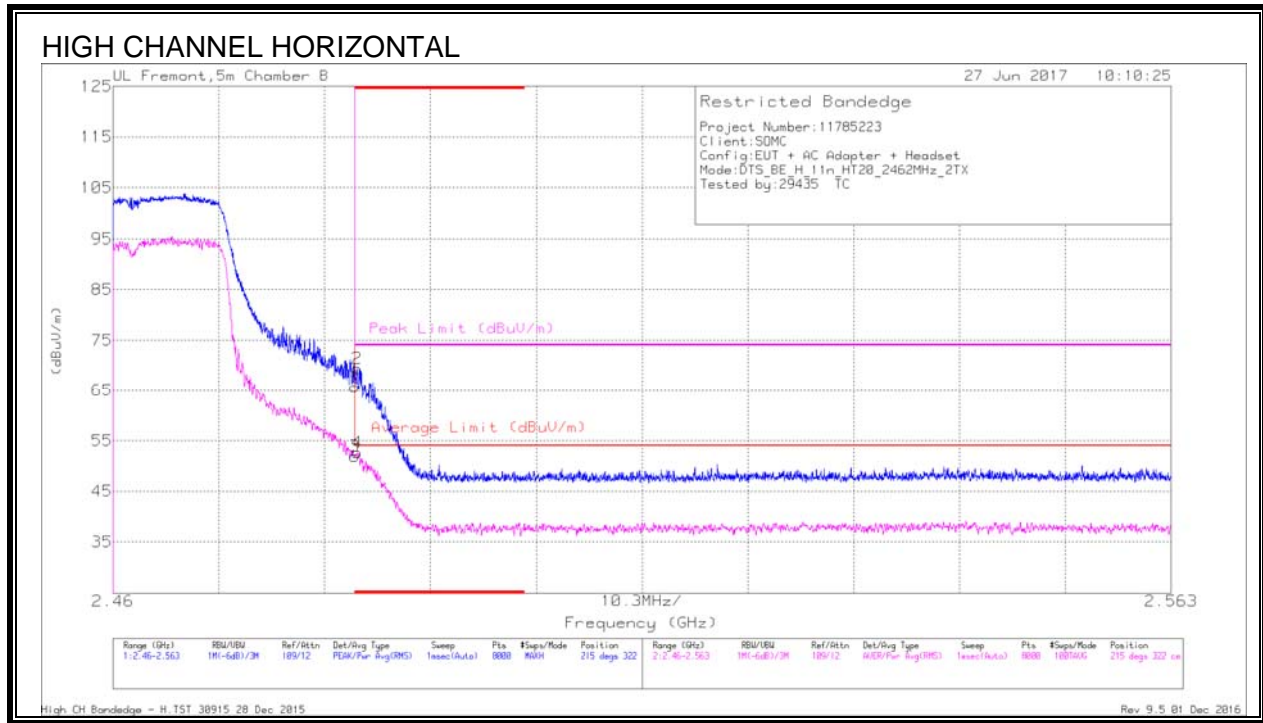
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Ch/Flt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	42.82	Pk	32	-21.2	0	53.62	-	-	74	-20.38	135	214	V
2	* 2.39	45.09	Pk	32	-21.2	0	55.89	-	-	74	-18.11	135	214	V
3	* 2.39	31.49	RMS	32	-21.2	.21	42.5	54	-11.5	-	-	135	214	V
4	* 2.39	31.3	RMS	32	-21.2	.21	42.31	54	-11.69	-	-	135	214	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 11)

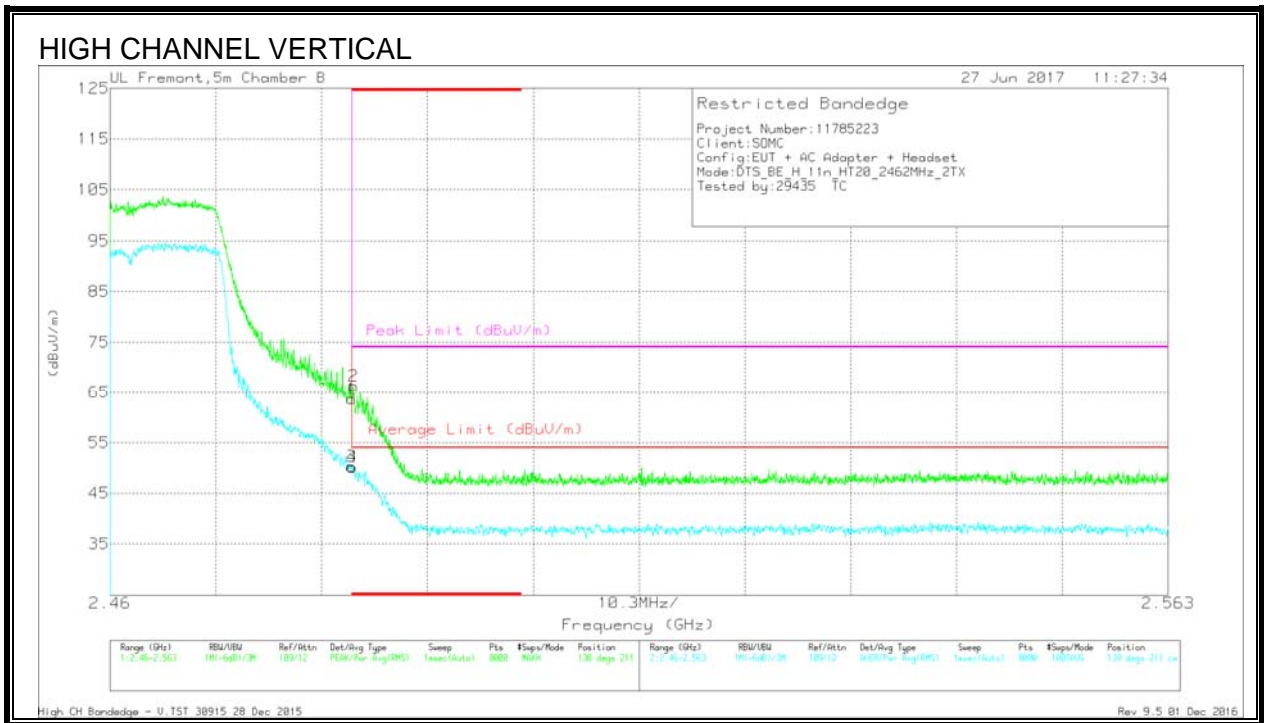


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Az T346 (dB/m)	Amp/Ch/Filt/Pad (dB)	DC Corr (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	54.44	Pk	32.1	-20.9	0	65.64	-	-	74	-8.36	215	322	H
2	* 2.484	58.23	Pk	32.1	-20.9	0	69.43	-	-	74	-4.57	215	322	H
3	* 2.484	40.5	RMS	32.1	-20.9	.21	51.91	54	-2.09	-	-	215	322	H
4	* 2.484	41.2	RMS	32.1	-20.9	.21	52.61	54	-1.39	-	-	215	322	H

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

Pk - Peak detector



Trace Markers

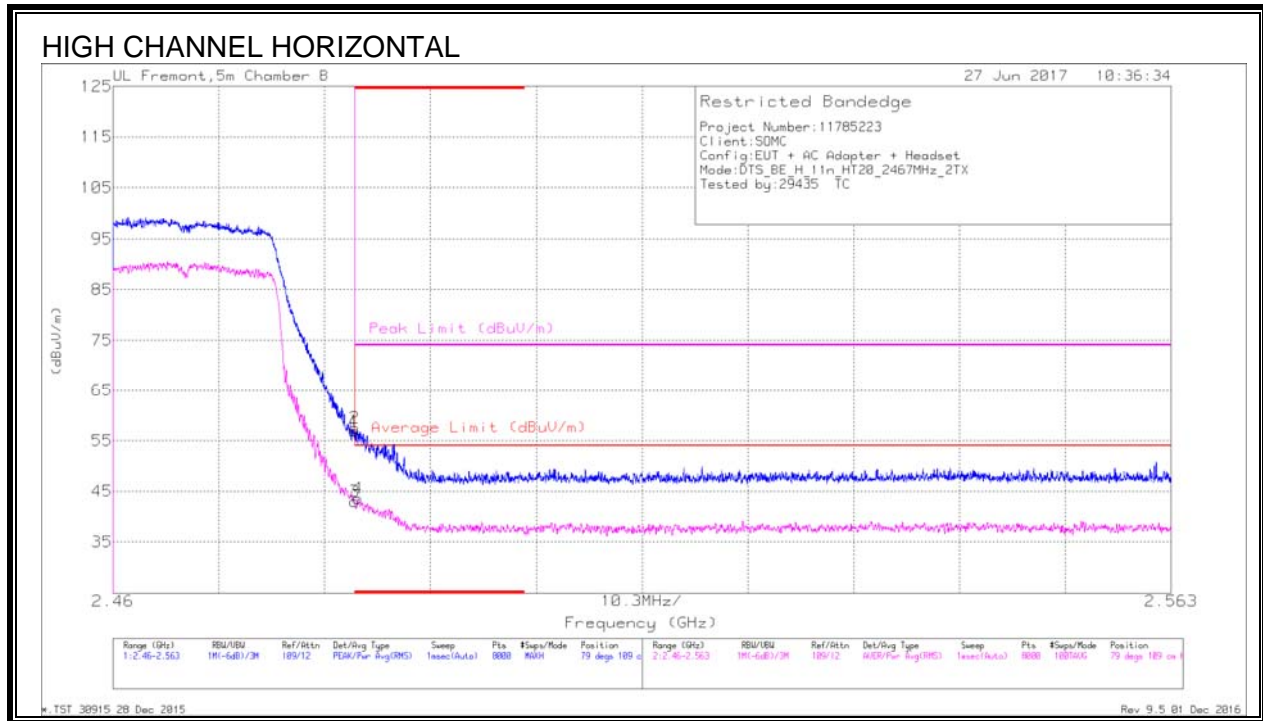
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Ch/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	52.49	Pk	32.1	-20.9	0	63.69	-	-	74	-10.31	138	211	V
2	* 2.484	55.13	Pk	32.1	-20.9	0	66.33	-	-	74	-7.67	138	211	V
3	* 2.484	38.85	RMS	32.1	-20.9	.21	50.26	54	-3.74	-	-	138	211	V
4	* 2.484	38.72	RMS	32.1	-20.9	.21	50.13	54	-3.87	-	-	138	211	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 12)



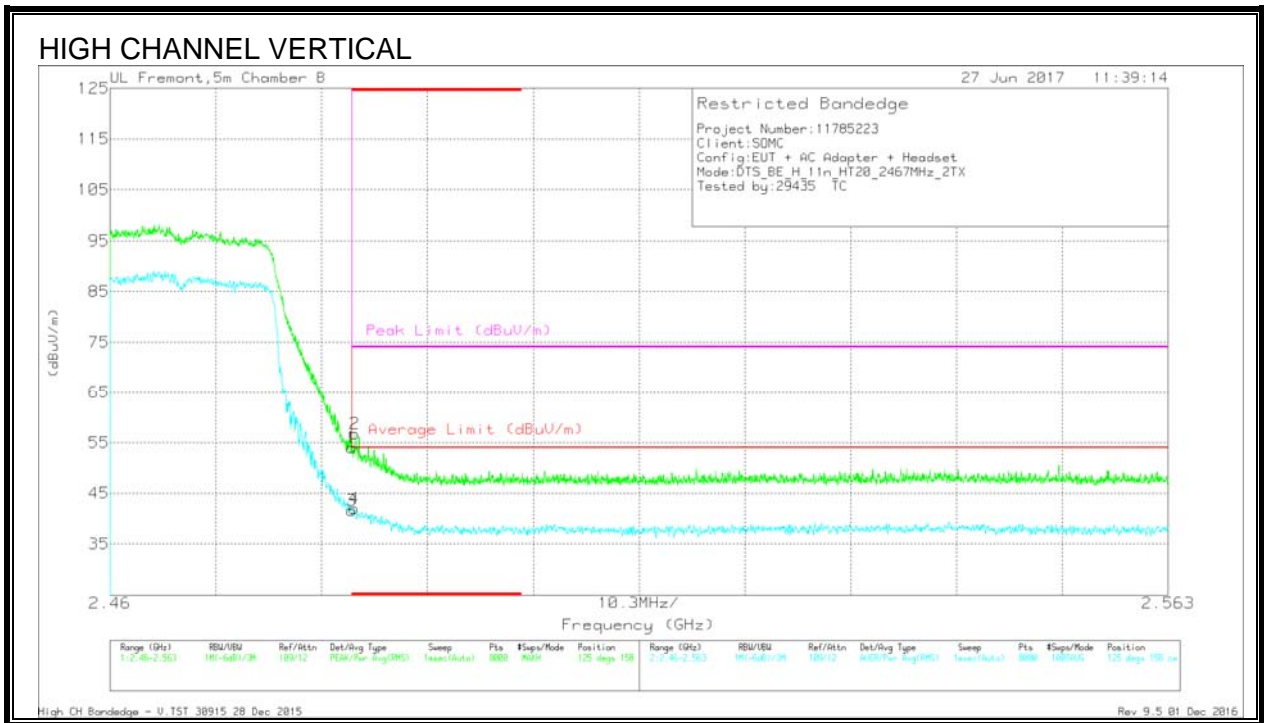
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Ch/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.66	Pk	32.1	-20.9	0	56.86	-	-	74	-17.14	79	109	H
2	* 2.484	46.24	Pk	32.1	-20.9	0	57.44	-	-	74	-16.56	79	109	H
3	* 2.484	31.53	RMS	32.1	-20.9	.21	42.94	54	-11.06	-	-	79	109	H
4	* 2.484	32.21	RMS	32.1	-20.9	.21	43.62	54	-10.38	-	-	79	109	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

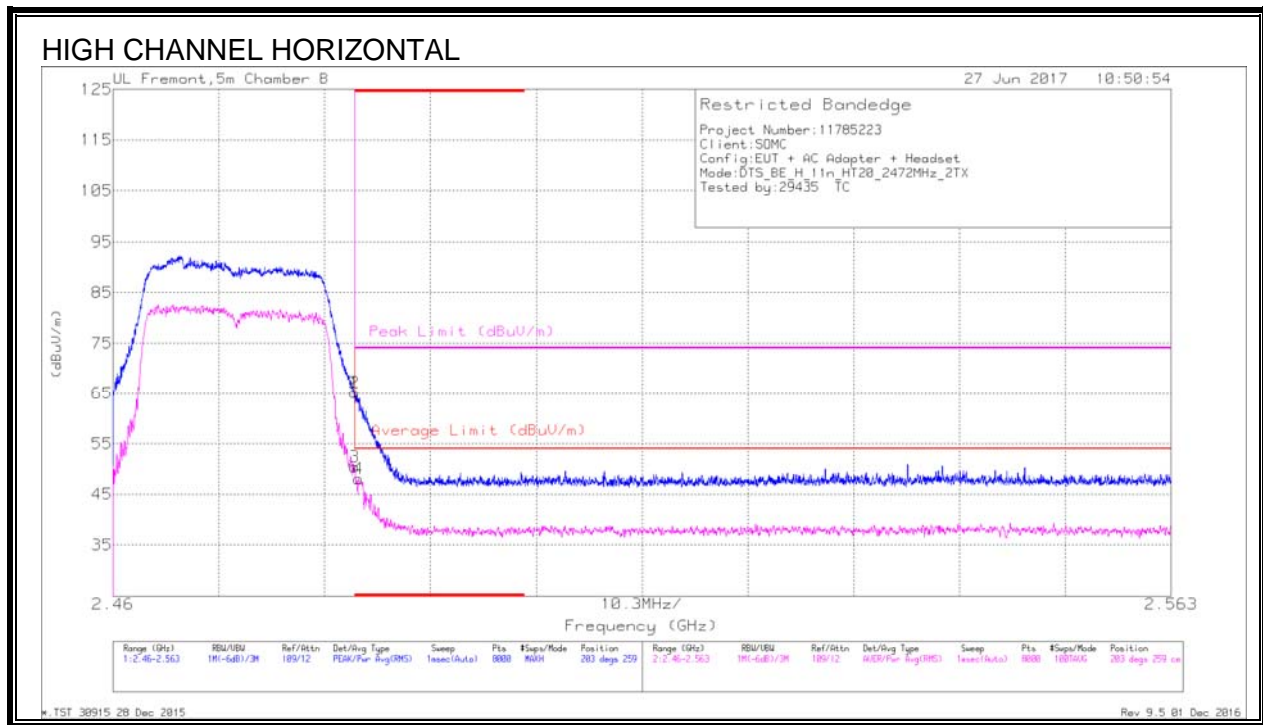
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.85	Pk	32.1	-20.9	0	54.05	-	-	74	-19.95	125	158	V
2	* 2.484	45.53	Pk	32.1	-20.9	0	56.73	-	-	74	-17.27	125	158	V
3	* 2.484	30.24	RMS	32.1	-20.9	.21	41.65	54	-12.35	-	-	125	158	V
4	* 2.484	30.54	RMS	32.1	-20.9	.21	41.95	54	-12.05	-	-	125	158	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 13)



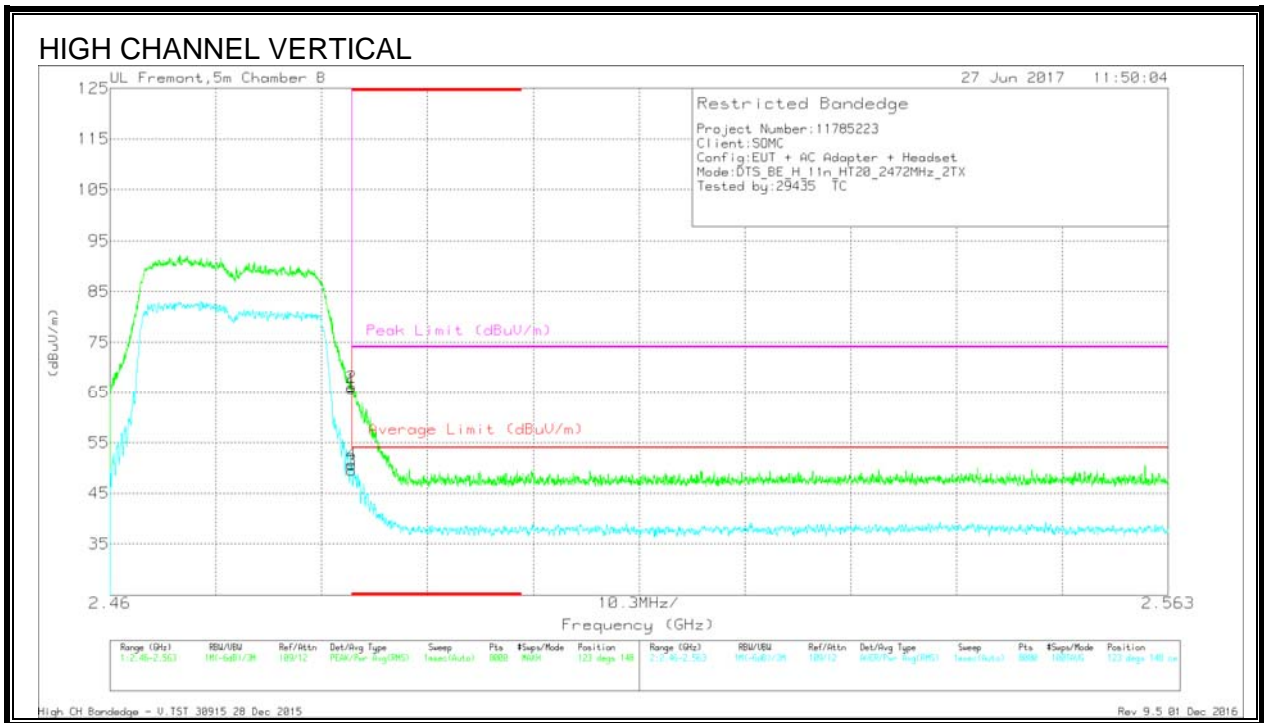
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Ch/Fltr/Pad (dB)	DC Corr (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	53.99	Pk	32.1	-20.9	0	65.19	-	-	74	-8.81	203	259	H
2	* 2.484	53.96	Pk	32.1	-20.9	0	65.16	-	-	74	-8.84	203	259	H
3	* 2.484	38.98	RMS	32.1	-20.9	.21	50.39	54	-3.61	-	-	203	259	H
4	* 2.484	36.65	RMS	32.1	-20.9	.21	48.06	54	-5.94	-	-	203	259	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

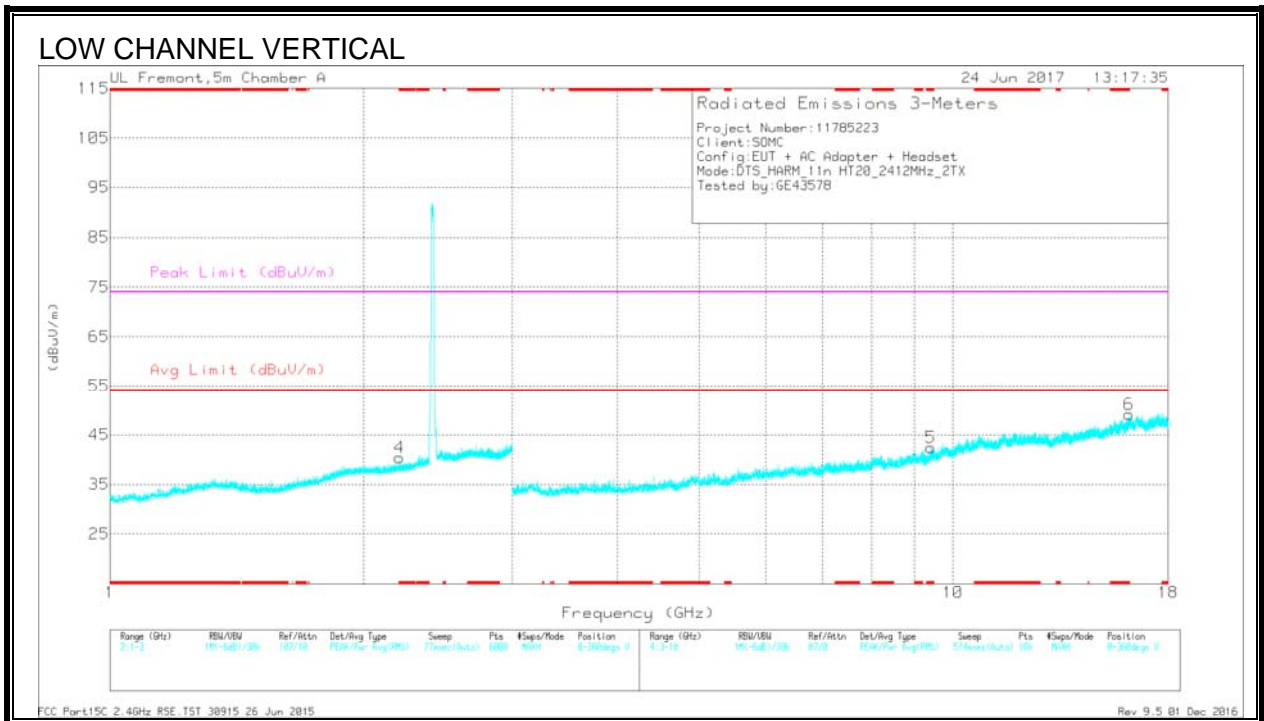
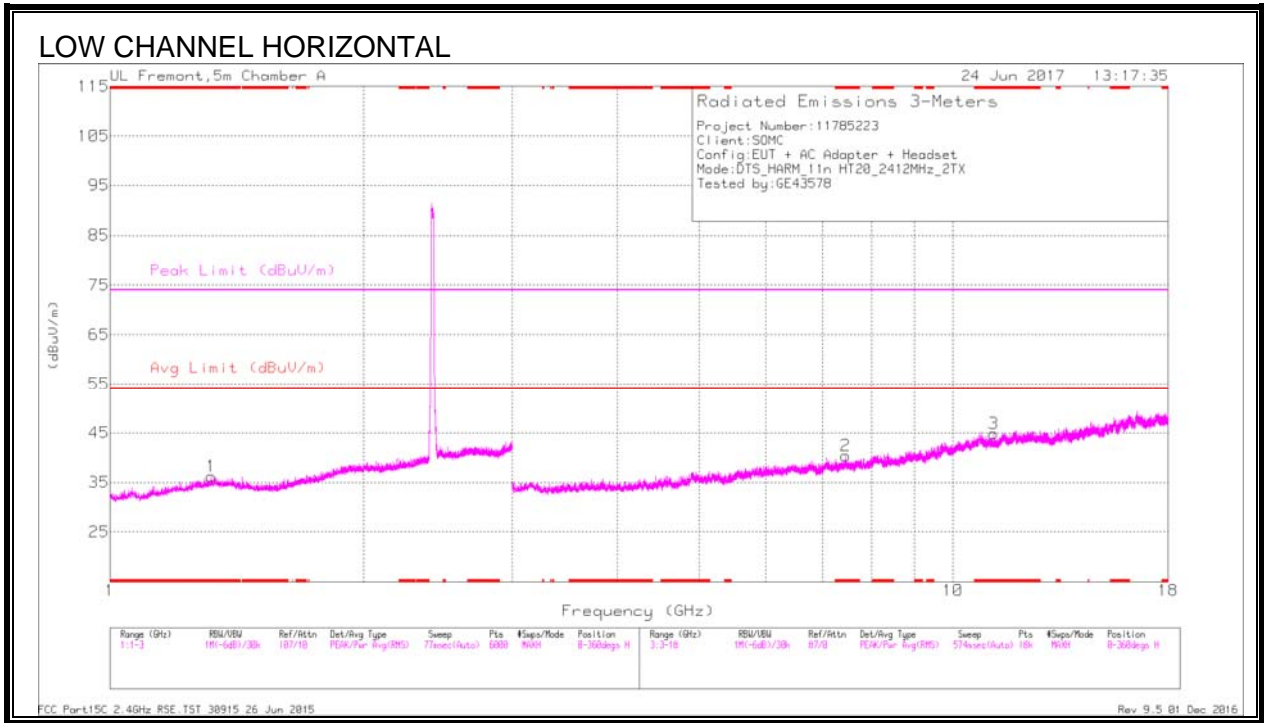
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Af T346 (dB/m)	Amp/Cb/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	54.44	Pk	32.1	-20.9	0	65.64	-	-	74	-8.36	123	148	V
2	* 2.484	54.83	Pk	32.1	-20.9	0	66.03	-	-	74	-7.97	123	148	V
3	* 2.484	38.13	RMS	32.1	-20.9	.21	49.54	54	-4.46	-	-	123	148	V
4	* 2.484	39.26	RMS	32.1	-20.9	.21	50.67	54	-3.33	-	-	123	148	V

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

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, CH 1)



Radiated Emissions

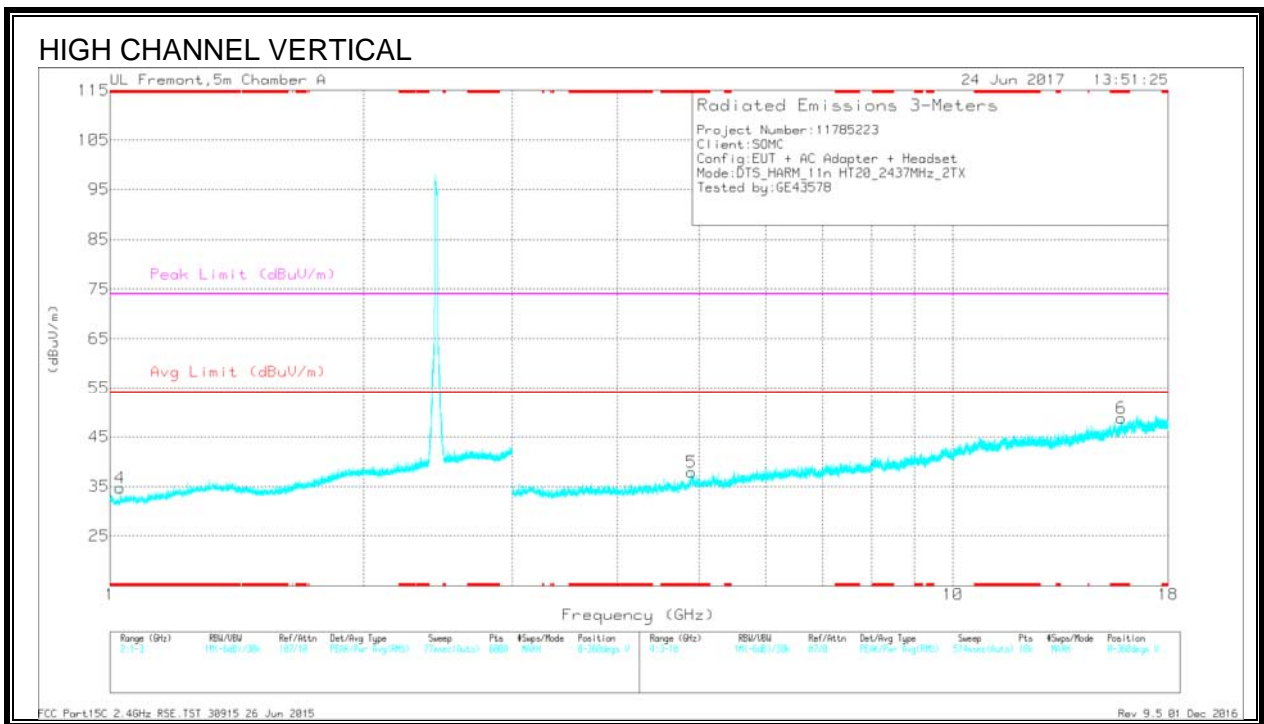
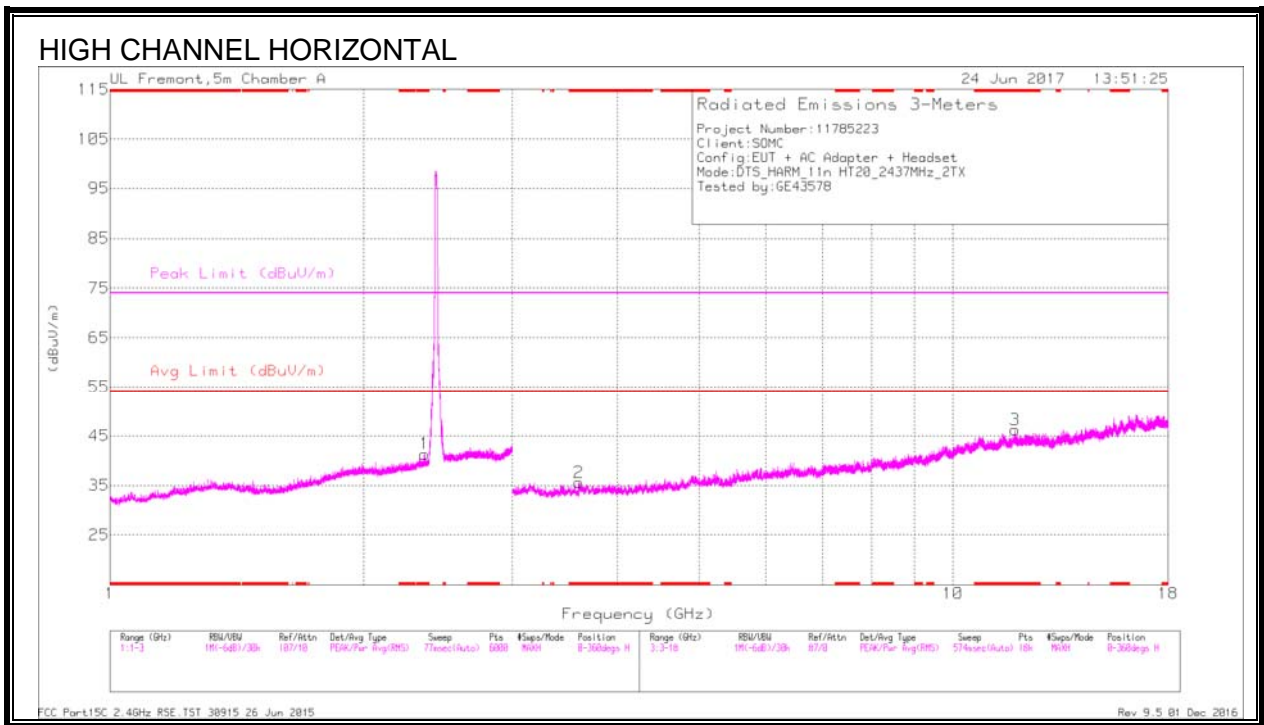
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.318	36.8	PK2	29.5	-24	0	42.3	-	-	74	-31.7	351	199	H
* 1.318	24.78	MAv1	29.5	-24	.21	30.49	54	-23.51	-	-	351	199	H
* 2.205	37.26	PK2	31.6	-23.9	0	44.96	-	-	74	-29.04	-	102	V
* 2.208	25.49	MAv1	31.6	-23.9	.21	33.4	54	-20.6	-	-	-	102	V
* 7.461	33.48	PK2	35.5	-23.5	0	45.48	-	-	74	-28.52	139	156	H
* 7.459	22.04	MAv1	35.5	-23.4	.21	34.35	54	-19.65	-	-	139	156	H
* 11.176	32.71	PK2	37.8	-20.1	0	50.41	-	-	74	-23.59	51	199	H
* 11.176	21.25	MAv1	37.8	-20.1	.21	39.16	54	-14.84	-	-	51	199	H
* 9.418	33.06	PK2	36.4	-22	0	47.46	-	-	74	-26.54	309	274	V
* 9.416	21.34	MAv1	36.4	-22.1	.21	35.85	54	-18.15	-	-	309	274	V
* 16.183	32.25	PK2	41.1	-19.2	0	54.15	-	-	74	-19.85	27	201	V
* 16.182	21.69	MAv1	41.1	-19.2	.21	43.8	54	-10.2	-	-	27	201	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, CH 6)



Radiated Emissions

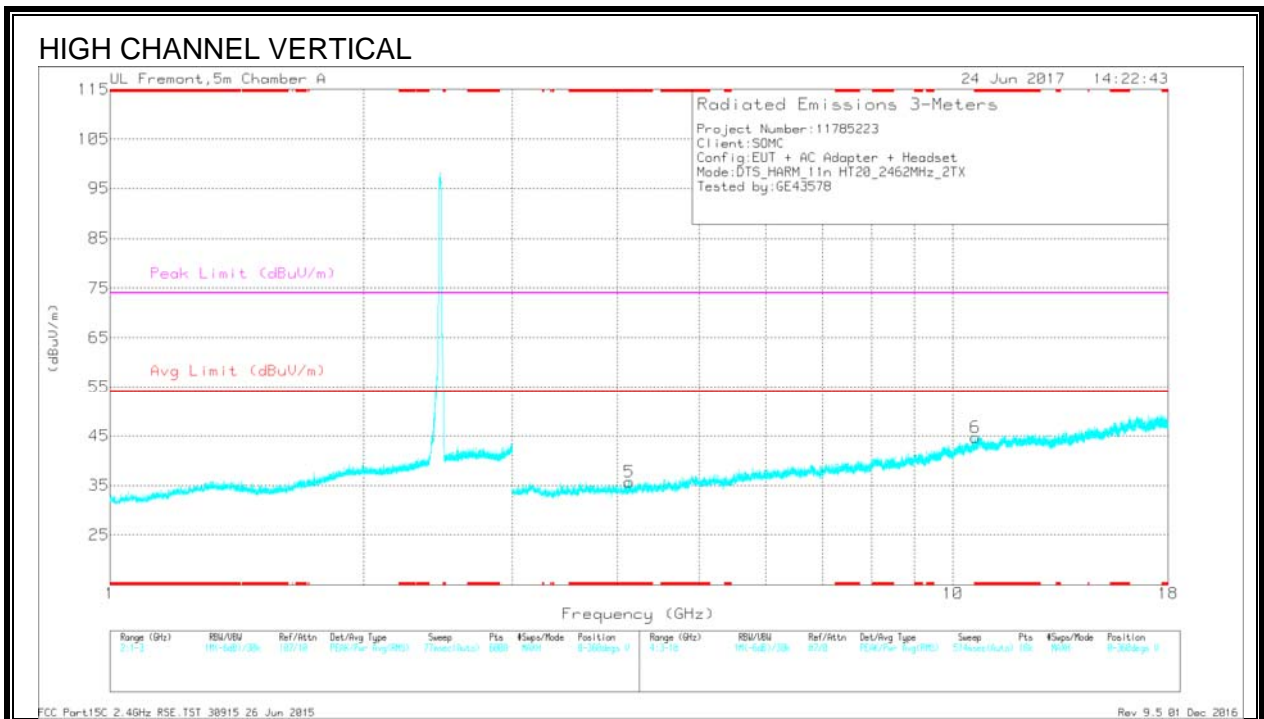
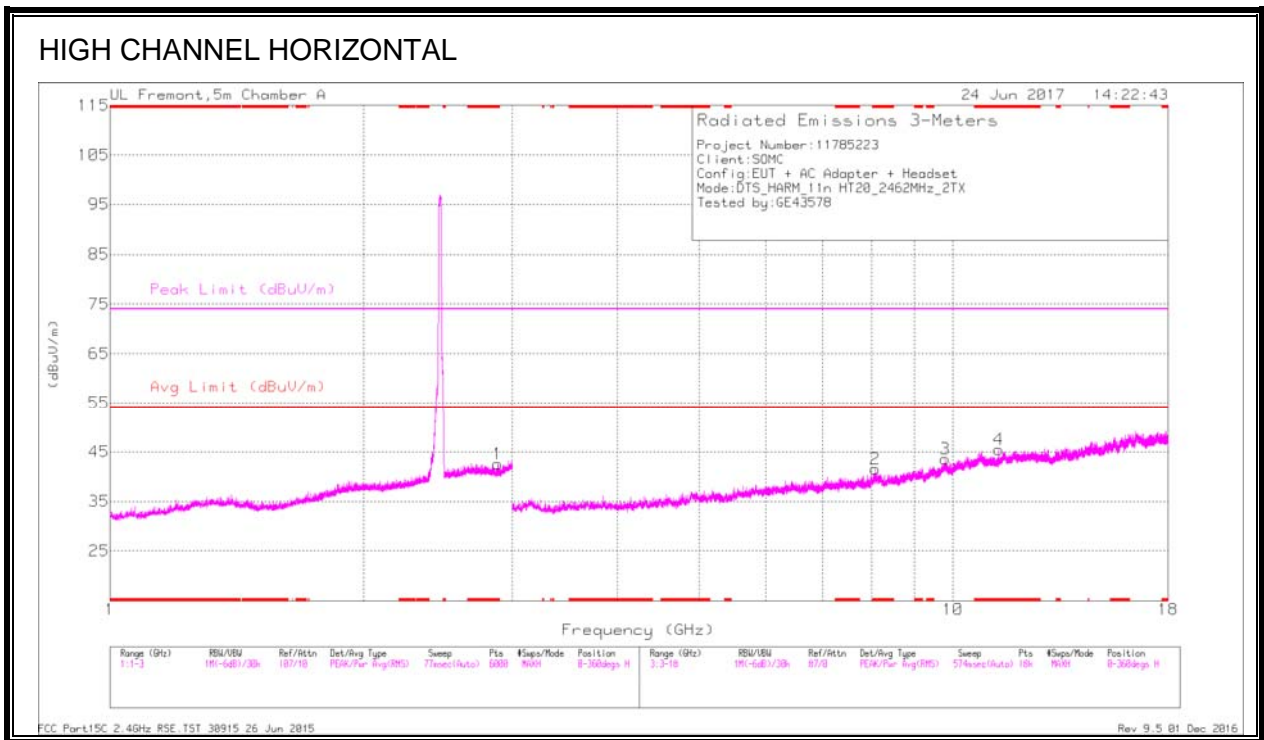
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.362	38.05	PK2	32.1	-23.7	0	46.45	-	-	74	-27.55	9	199	H
* 2.359	25.96	MAV1	32	-23.7	.21	34.47	54	-19.53	-	-	9	199	H
* 1.029	35.64	PK2	27.8	-24.5	0	38.94	-	-	74	-35.06	21	199	V
* 1.029	24.43	MAV1	27.8	-24.5	.21	27.94	54	-26.06	-	-	21	199	V
* 3.602	38.72	PK2	33.1	-30.8	0	41.02	-	-	74	-32.98	351	102	H
* 3.603	26.82	MAV1	33.1	-30.8	.21	29.33	54	-24.67	-	-	351	102	H
* 11.841	32.08	PK2	38.5	-19.3	0	51.28	-	-	74	-22.72	214	199	H
* 11.841	21.23	MAV1	38.5	-19.3	.21	40.64	54	-13.36	-	-	214	199	H
* 4.891	36.7	PK2	34	-27.5	0	43.2	-	-	74	-30.8	242	102	V
* 4.892	25.02	MAV1	34	-27.4	.21	31.83	54	-22.17	-	-	242	102	V
* 15.843	33	PK2	40.5	-19	0	54.5	-	-	74	-19.5	349	102	V
* 15.842	20.71	MAV1	40.5	-19	.21	42.42	54	-11.58	-	-	349	102	V

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

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, CH 11)



Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.884	37.3	PK2	32.1	-22.4	0	47	-	-	74	-27	345	100	H
* 2.884	25.78	MAV1	32.1	-22.4	.21	35.69	54	-18.31	-	-	345	100	H
* 8.085	33.7	PK2	35.6	-22.4	0	46.9	-	-	74	-27.1	321	199	H
* 8.087	22.4	MAV1	35.6	-22.4	.21	35.81	54	-18.19	-	-	321	199	H
* 11.336	31.91	PK2	37.9	-19.9	0	49.91	-	-	74	-24.09	225	102	H
* 11.339	21.22	MAV1	37.9	-19.9	.21	39.43	54	-14.57	-	-	225	102	H
* 4.129	38.04	PK2	33.3	-29.8	0	41.54	-	-	74	-32.46	49	200	V
* 4.132	26.83	MAV1	33.3	-29.9	.21	30.44	54	-23.56	-	-	49	200	V
* 10.626	33.02	PK2	37.8	-20.7	0	50.12	-	-	74	-23.88	70	200	V
* 10.627	21.83	MAV1	37.8	-20.8	.21	39.04	54	-14.96	-	-	70	200	V
9.79	32.64	PK2	36.9	-21	0	48.54	-	-	-	-	347	102	H

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

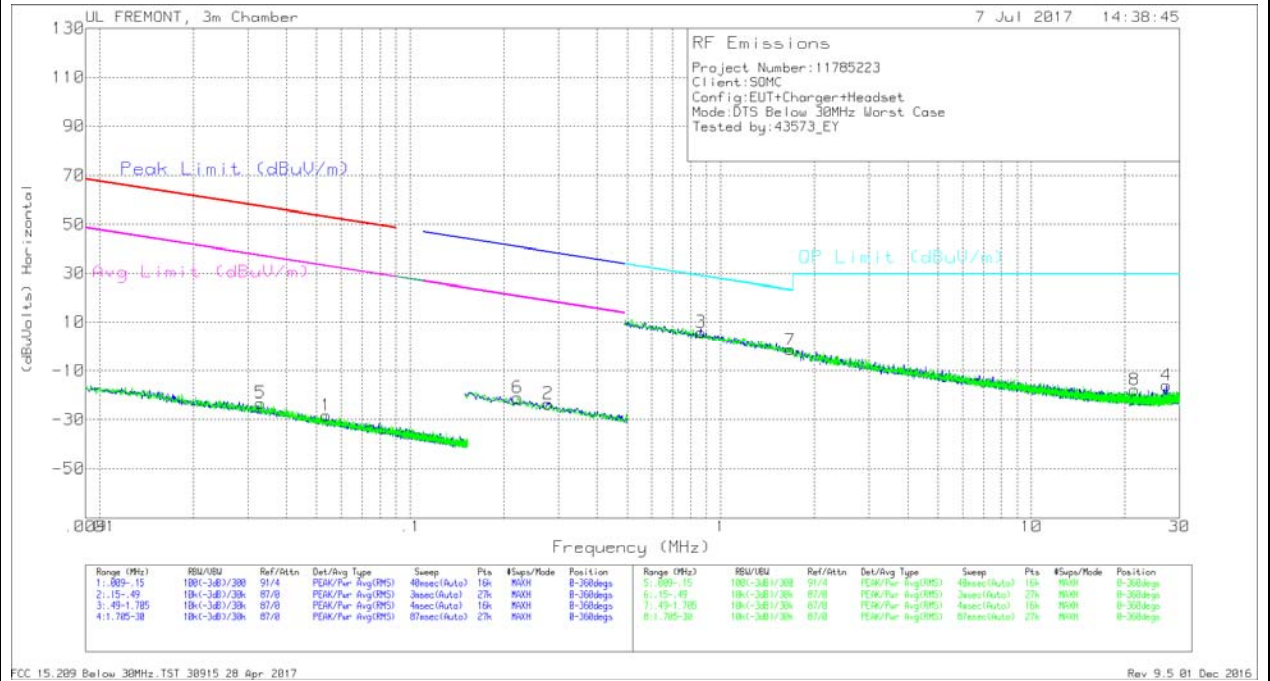
PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

10.3 WORST-CASE BELOW 30 MHz

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION)

HORIZONTAL AND VERTICAL PLOTS



NOTE: KDB 414788 OATS and Chamber Correlation Justification

- Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.
- OATs and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Chl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
5	.03299	41.27	Pk	14	1.4	-80	-23.33	57.22	-80.55	37.22	-60.55	-	-	-	-	0-360
1	.05364	38.05	Pk	12.3	1.4	-80	-28.25	53	-81.25	33	-61.25	-	-	-	-	0-360
6	.22165	45.76	Pk	11.5	1.5	-80	-21.24	-	-	-	-	40.7	-61.94	20.7	-41.94	0-360
2	.27838	43.43	Pk	11.5	1.5	-80	-23.57	-	-	-	-	38.72	-62.29	18.72	-42.29	0-360

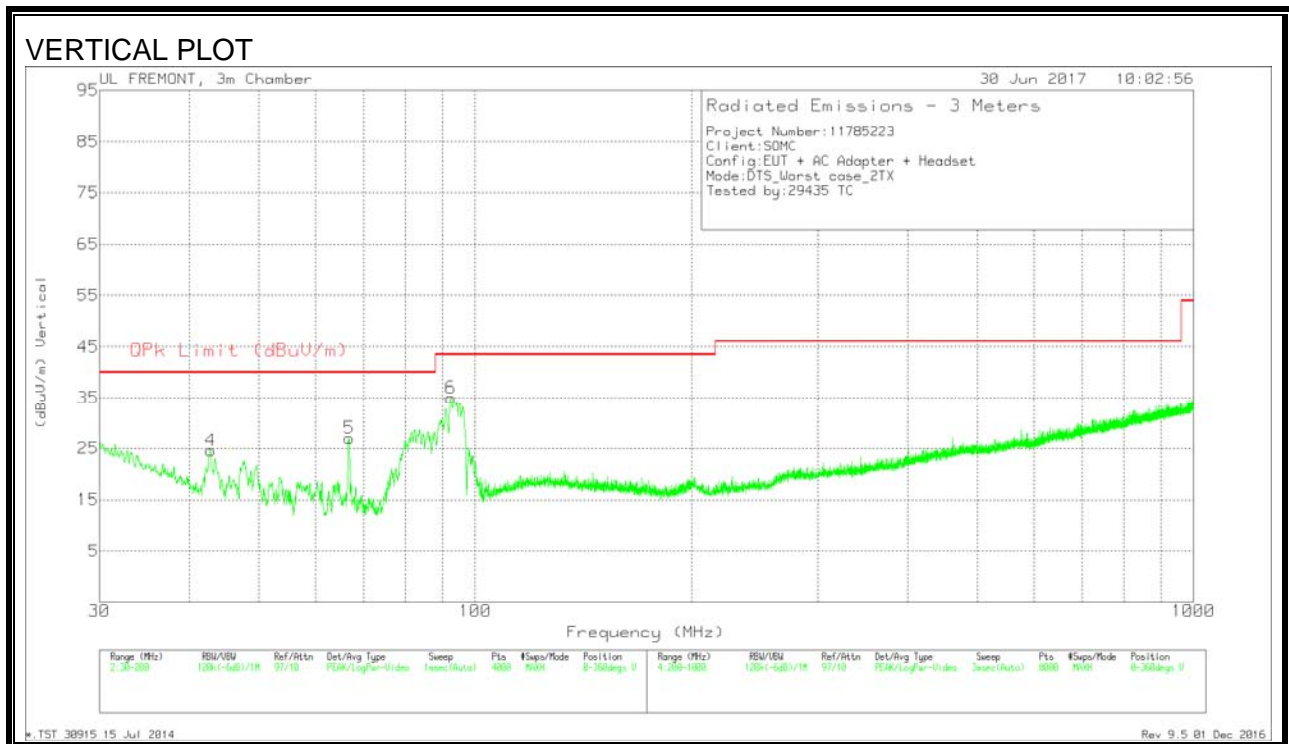
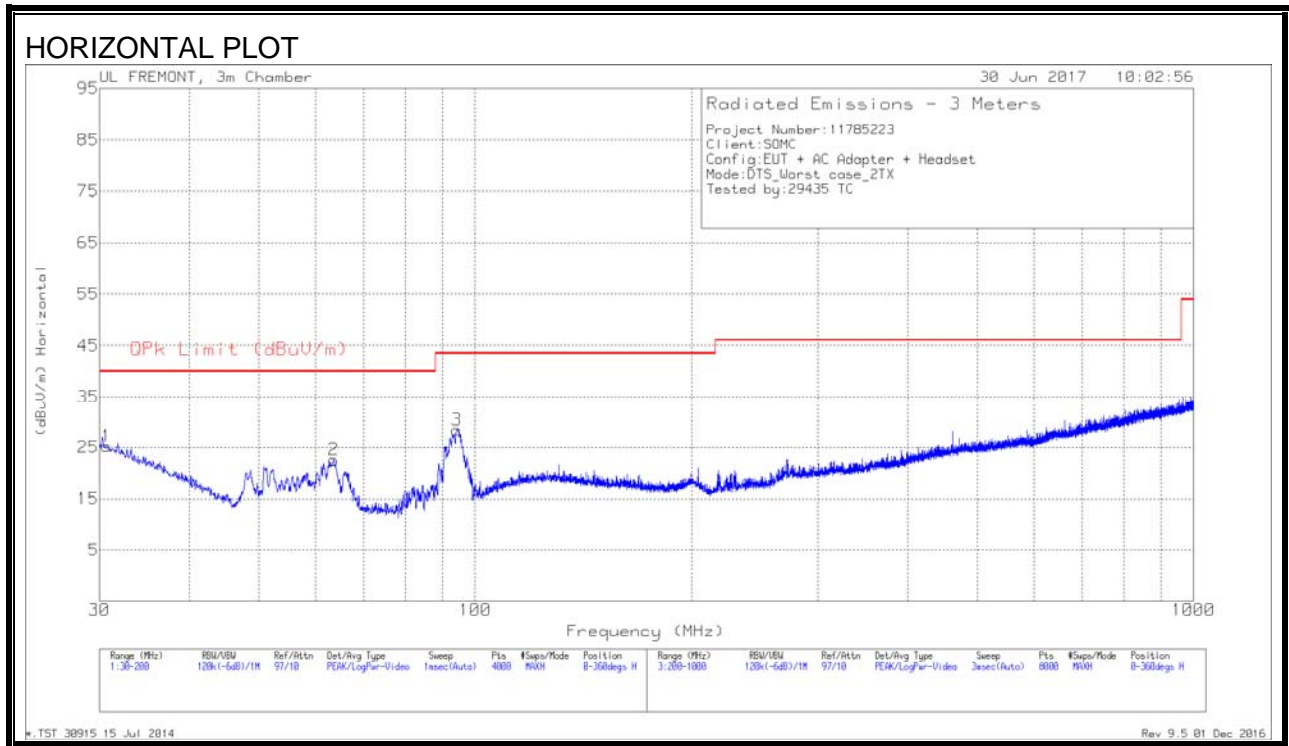
Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Chl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	OP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
3	.86438	32.84	Pk	11.5	1.5	-40	5.84	28.88	-23.04	0-360
7	1.67385	25.4	Pk	11.6	1.5	-40	-1.5	23.16	-24.66	0-360
8	21.52478	10.77	Pk	9.5	1.7	-40	-18.03	29.5	-47.53	0-360
4	27.28196	13.75	Pk	8.5	1.7	-40	-16.05	29.5	-45.55	0-360

Pk - Peak detector

10.4 WORST-CASE BELOW 1 GHz

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



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T408 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.6802	27.65	Pk	24.8	-27.2	25.25	40	-14.75	0-360	400	H
4	42.8383	35.84	Pk	15.8	-27.1	24.54	40	-15.46	0-360	100	V
2	63.5837	37.48	Pk	11.8	-26.7	22.58	40	-17.42	0-360	400	H
5	66.772	41.74	Pk	12	-26.7	27.04	40	-12.96	0-360	100	V
6	92.4699	49.24	Pk	12.2	-26.4	35.04	43.52	-8.48	0-360	100	V
3	94.2766	42.18	Pk	12.6	-26.4	28.38	43.52	-15.14	0-360	200	H

Pk - Peak detector

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T449 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	20.365	40.37	Pk	33	-25.2	-9.5	38.67	54	-15.33	74	-35.33
2	21.53	41.07	Pk	33.2	-25.1	-9.5	39.67	54	-14.33	74	-34.33
3	24.022	43.3	Pk	33.9	-24.2	-9.5	43.5	54	-10.5	74	-30.5
4	19.998	40.8	Pk	32.8	-25.1	-9.5	39	54	-15	74	-35
5	22.037	42.2	Pk	33.4	-25.1	-9.5	41	54	-13	74	-33
6	25.087	44.37	Pk	34.3	-24.5	-9.5	44.67	54	-9.33	74	-29.33

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)
RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	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.

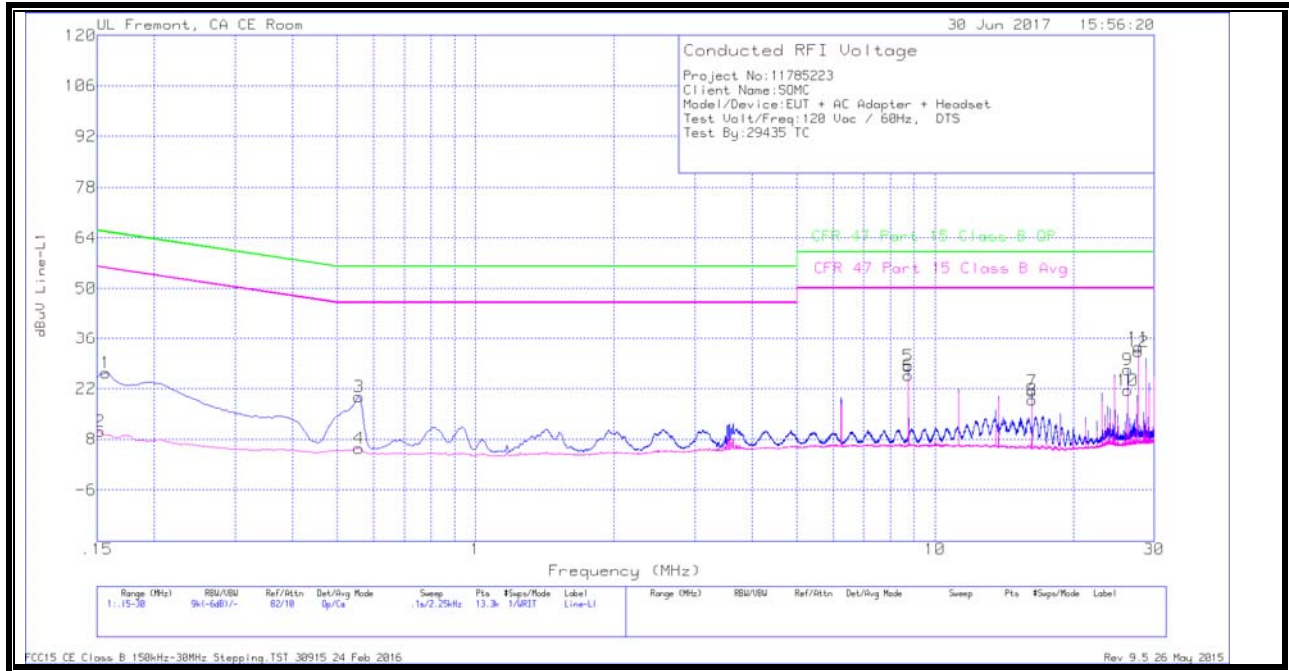
TEST PROCEDURE

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.

LINE 1 RESULTS



WORST EMISSIONS

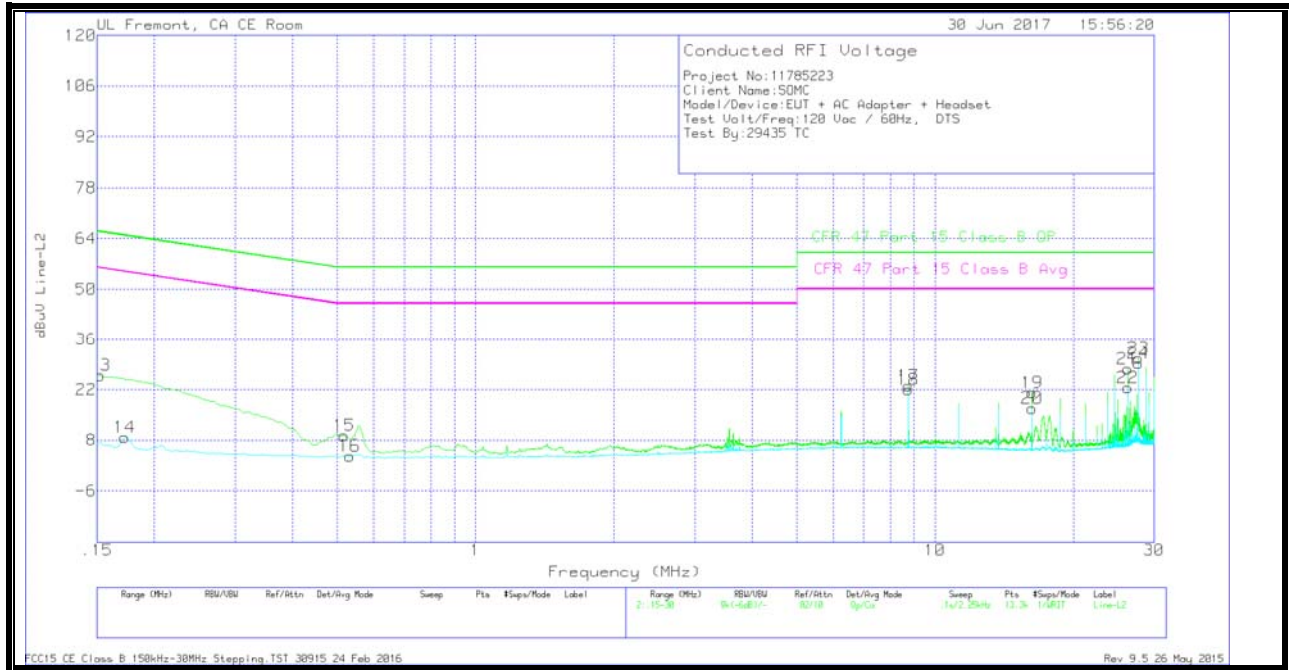
Range 1: Line-L1 .15 - 30MHz

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	16.09	Qp	.1	.1	10.1	26.39	65.63	-39.24	-	-
2	.15225	-.17	Ca	.1	.1	10.1	10.13	-	-	55.88	-45.75
3	.55725	9.54	Qp	0	.1	10.1	19.74	56	-36.26	-	-
4	.55725	-4.63	Ca	0	.1	10.1	5.57	-	-	46	-40.43
5	8.7495	17.91	Qp	0	.2	10.2	28.31	60	-31.69	-	-
6	8.7495	15.34	Ca	0	.2	10.2	25.74	-	-	50	-24.26
7	16.251	10.79	Qp	0	.2	10.3	21.29	60	-38.71	-	-
8	16.251	8.32	Ca	0	.2	10.3	18.82	-	-	50	-31.18
9	26.25	16.39	Qp	.1	.3	10.5	27.29	60	-32.71	-	-
10	26.25	10.52	Ca	.1	.3	10.5	21.42	-	-	50	-28.58
11	27.69225	22.51	Qp	.1	.3	10.5	33.41	60	-26.59	-	-
12	27.69225	21.34	Ca	.1	.3	10.5	32.24	-	-	50	-17.76

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
13	.15225	15.83	Qp	0	0	10.1	25.93	65.88	-39.95	-	-
14	.1725	-1.34	Ca	0	.1	10.1	8.86	-	-	54.84	-45.98
15	.51675	-.93	Qp	0	.1	10.1	9.27	56	-46.73	-	-
16	.5325	-6.53	Ca	0	.1	10.1	3.67	-	-	46	-42.33
17	8.7495	12.71	Qp	0	.2	10.2	23.11	60	-36.89	-	-
18	8.7495	11.66	Ca	0	.2	10.2	22.06	-	-	50	-27.94
19	16.251	10.69	Qp	0	.2	10.3	21.19	60	-38.81	-	-
20	16.251	6.38	Ca	0	.2	10.3	16.88	-	-	50	-33.12
21	26.25	16.9	Qp	.1	.3	10.5	27.8	60	-32.2	-	-
22	26.25	11.61	Ca	.1	.3	10.5	22.51	-	-	50	-27.49
23	27.69225	19.85	Qp	.1	.3	10.5	30.75	60	-29.25	-	-
24	27.69225	18.38	Ca	.1	.3	10.5	29.28	-	-	50	-20.72

Qp - Quasi-Peak detector

Ca - CISPR average detection