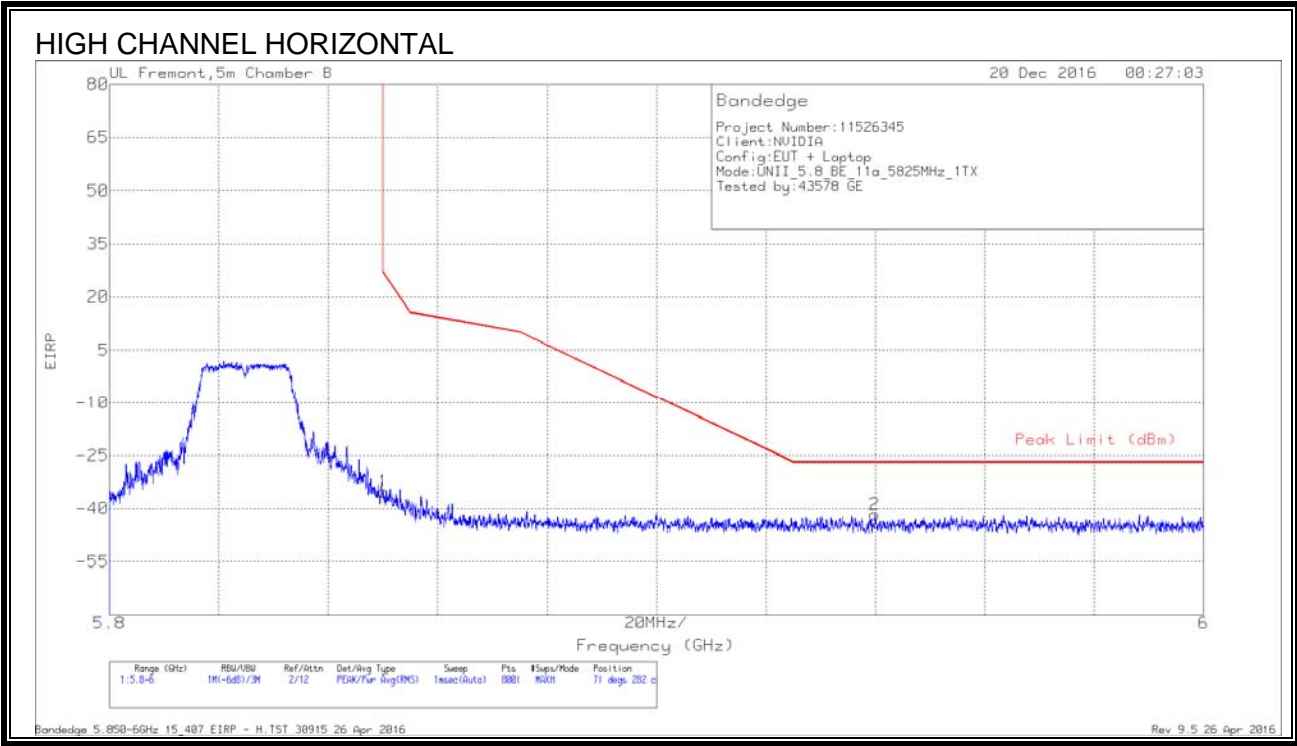


AUTHORIZED BANDEDGE (HIGH CHANNEL)

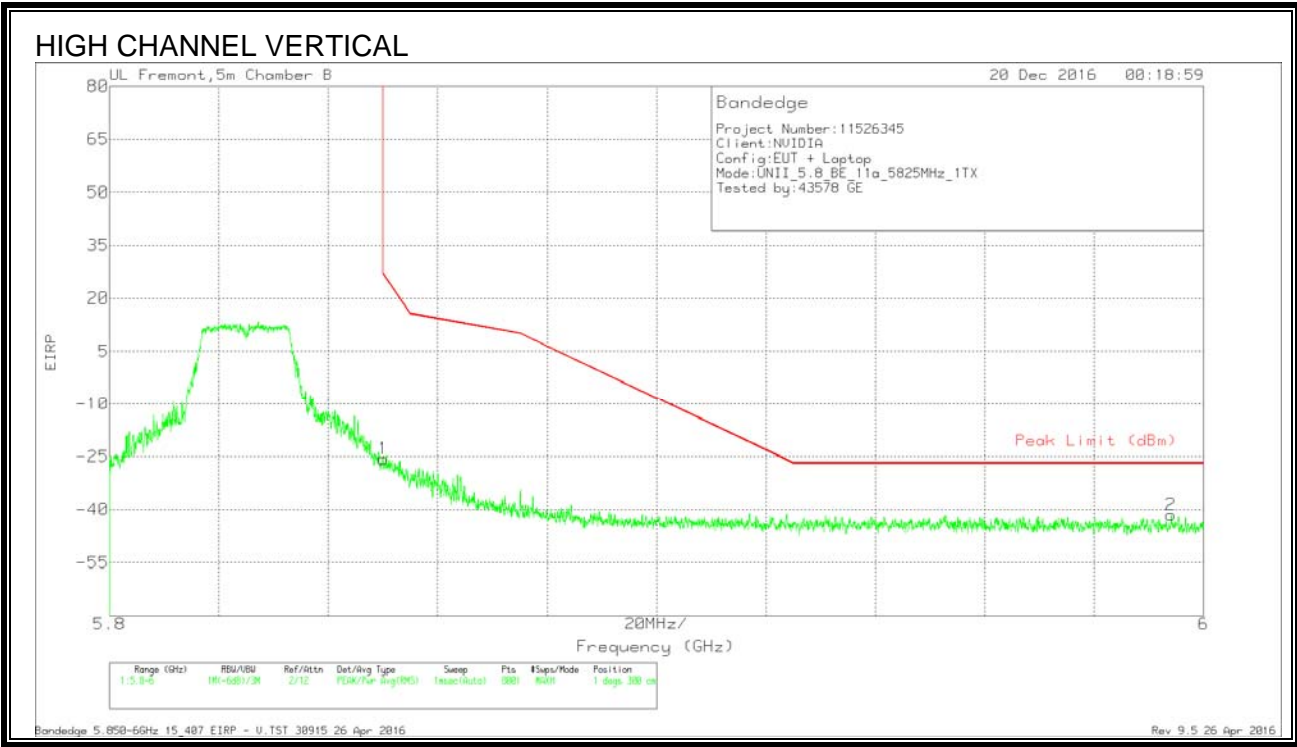
FCC



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-60.61	Pk	35.2	-21.6	11.8	-35.21	26.94	-62.15	71	282	H
2	5.94	-67.34	Pk	35.3	-21.5	11.8	-41.74	-27	-14.74	71	282	H

Pk - Peak detector

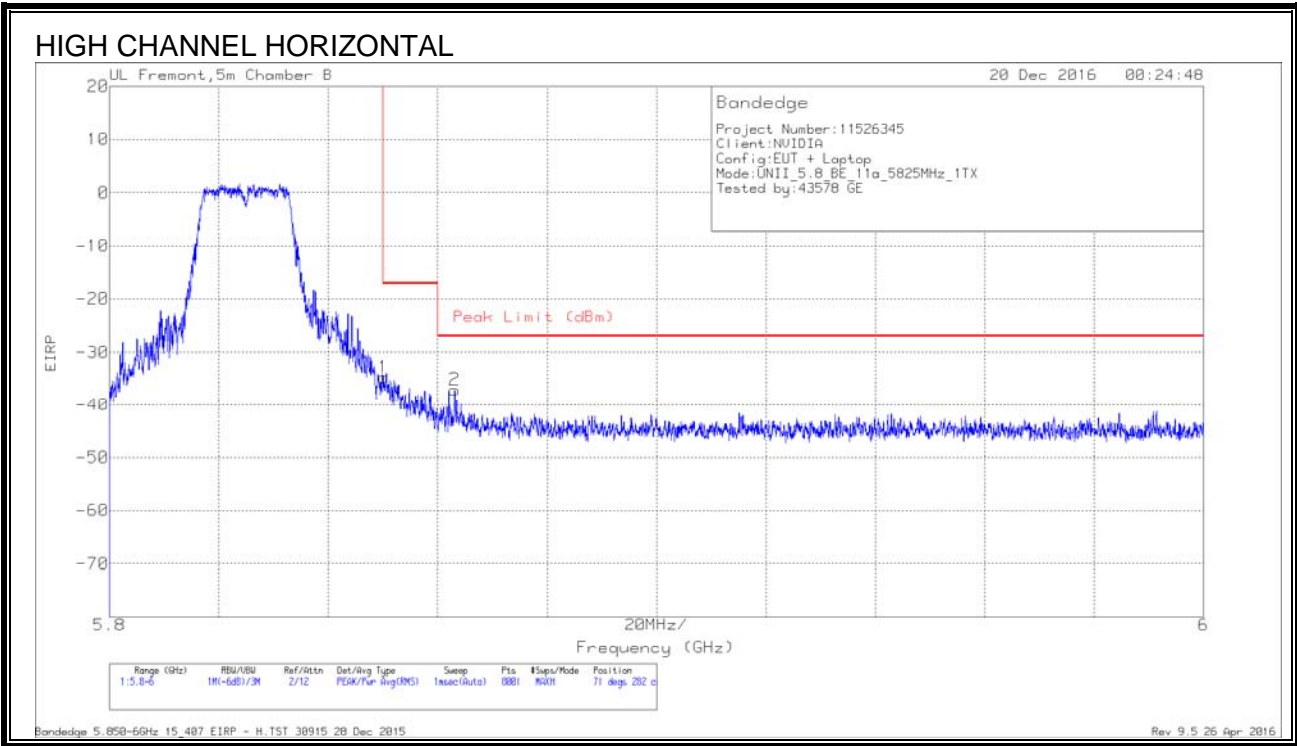


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-51.01	Pk	35.2	-21.6	11.8	-25.61	26.94	-52.55	1	300	V
2	5.994	-67.2	Pk	35.2	-21.3	11.8	-41.5	-27	-14.5	1	300	V

Pk - Peak detector

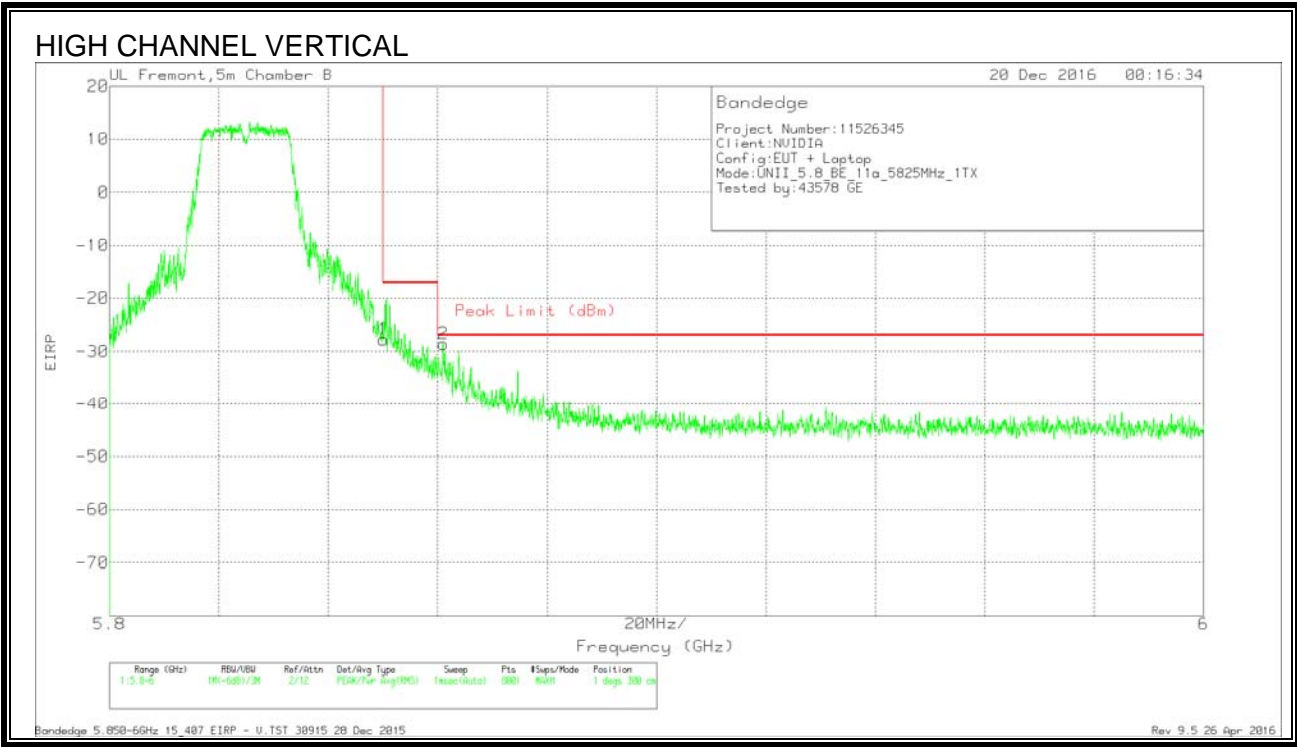
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Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-60.19	Pk	35.2	-21.6	11.8	-34.79	-17	-17.79	71	282	H
2	5.863	-62.75	Pk	35.2	-21.3	11.8	-37.05	-27	-10.05	71	282	H

Pk - Peak detector

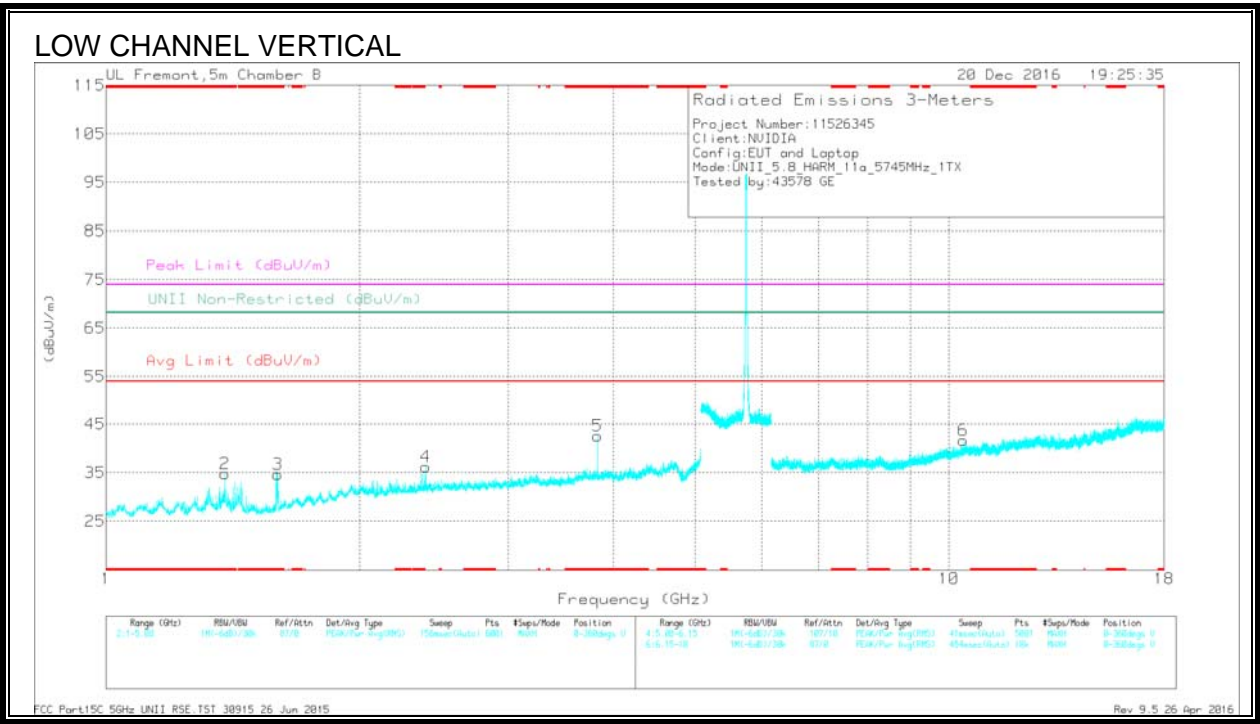
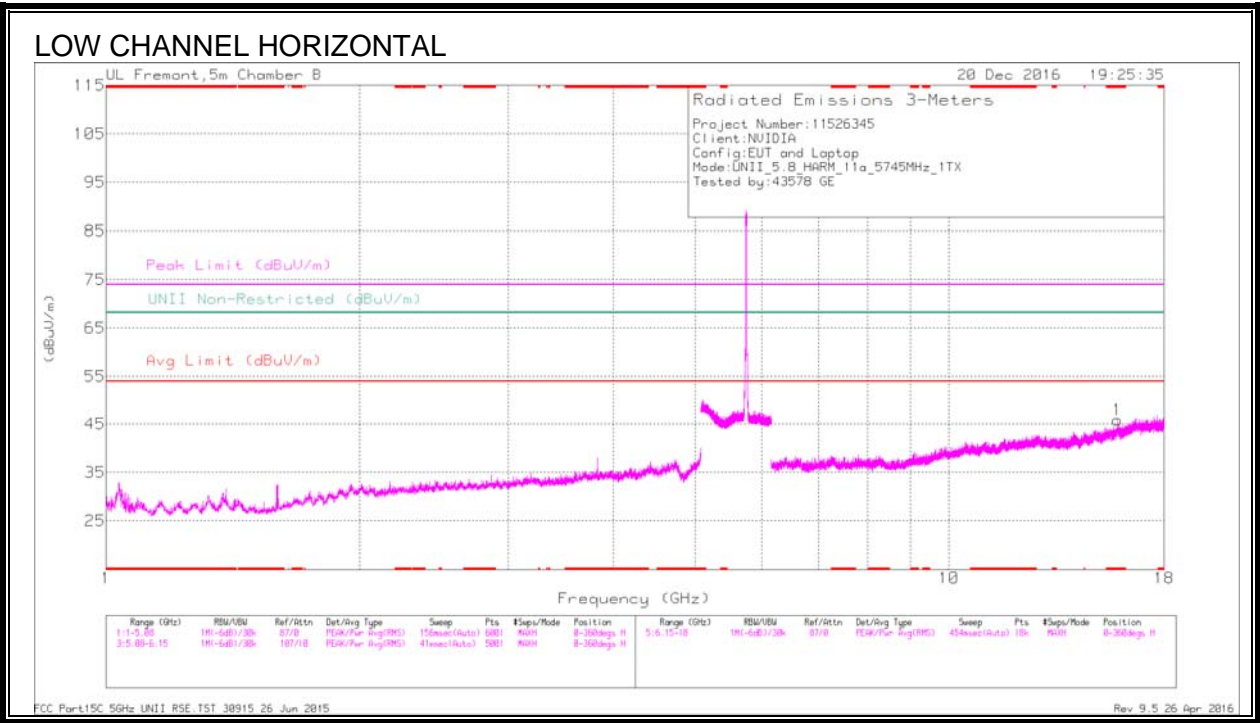


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-53.11	Pk	35.2	-21.6	11.8	-27.71	-17	-10.71	1	300	V
2	5.861	-53.95	Pk	35.2	-21.6	11.8	-28.55	-27	-1.55	1	300	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS



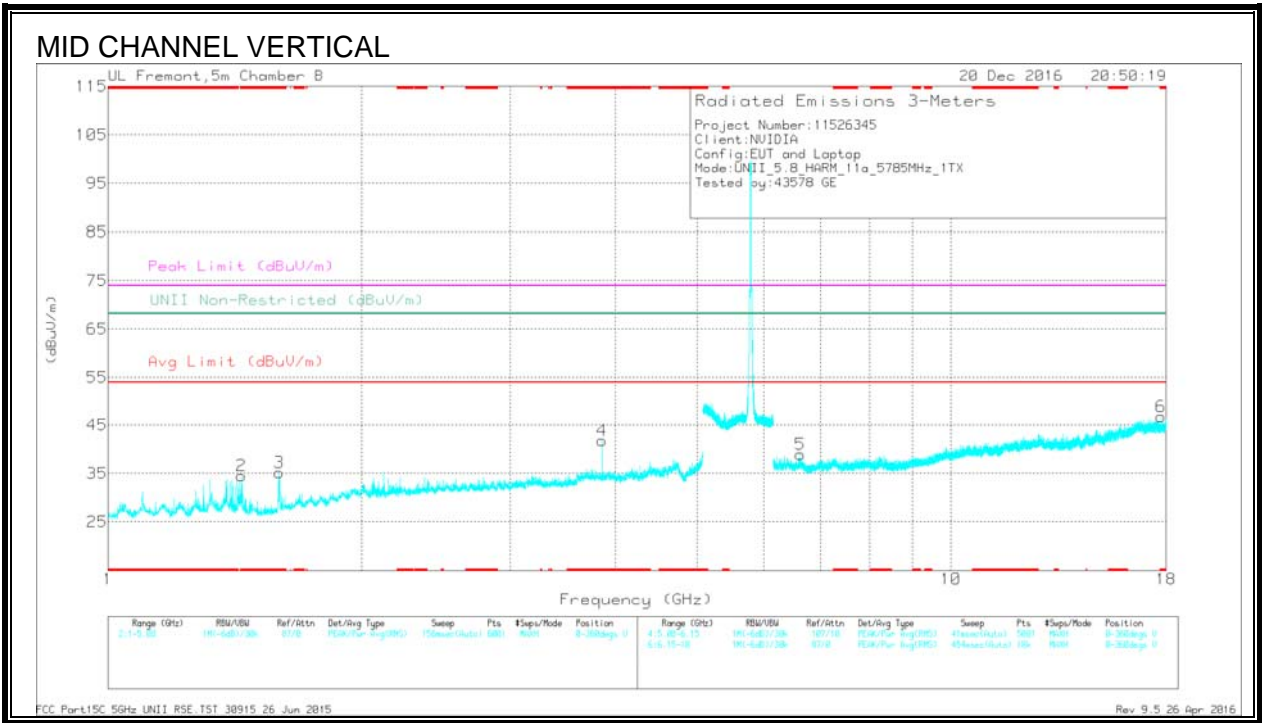
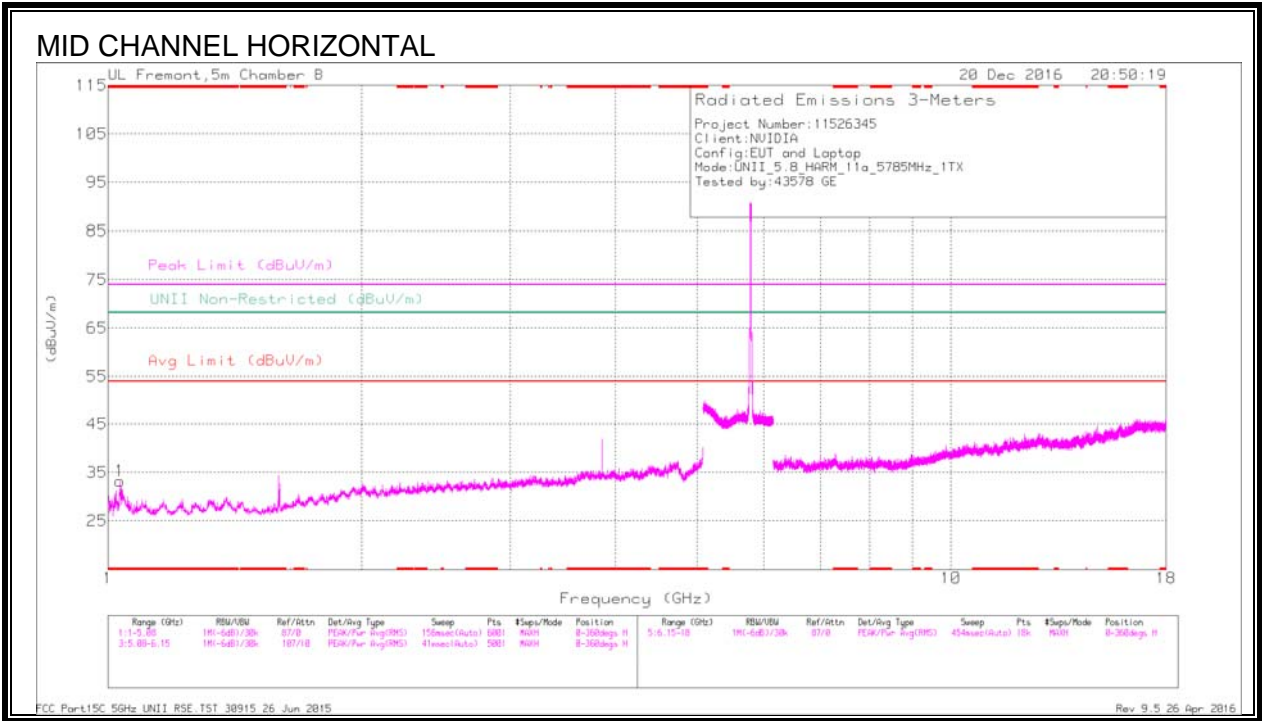
Radiated Emissions

Marker	Frequency (GHz)	Motor Reading (dBuV)	Det	AF T345 (dB/m)	Amp/CM/Hz/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Unl Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
2	* 1.383	52.21	PK-U	28.9	-35	0	46.11	-	-	74	-27.89	-	-	124	304	V
	* 1.383	32.37	ADR	28.9	-35	.29	26.56	54	-27.44	-	-	-	-	124	304	V
3	* 1.593	55.4	PK-U	28.1	-35.3	0	48.2	-	-	74	-25.8	-	-	98	349	V
	* 1.596	33.46	ADR	28.1	-35.2	.29	26.65	54	-27.35	-	-	-	-	98	349	V
5	* 3.83	46.66	PK-U	33.4	-33	0	47.06	-	-	74	-26.94	-	-	252	272	V
	* 3.83	35.28	ADR	33.4	-33	.29	35.97	54	-18.03	-	-	-	-	252	272	V
1	* 15.853	32.39	PK-U	40.6	-22.6	0	50.39	-	-	74	-23.61	-	-	106	126	H
	* 15.852	22.04	ADR	40.6	-22.6	.29	40.33	54	-13.67	-	-	-	-	106	126	H
4	2.398	46.58	PK-U	32.2	-34.7	0	44.08	-	-	-	-	68.2	-24.12	76	253	V
6	10.397	33.25	PK-U	37.6	-25.5	0	45.35	-	-	-	-	68.2	-22.85	216	110	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



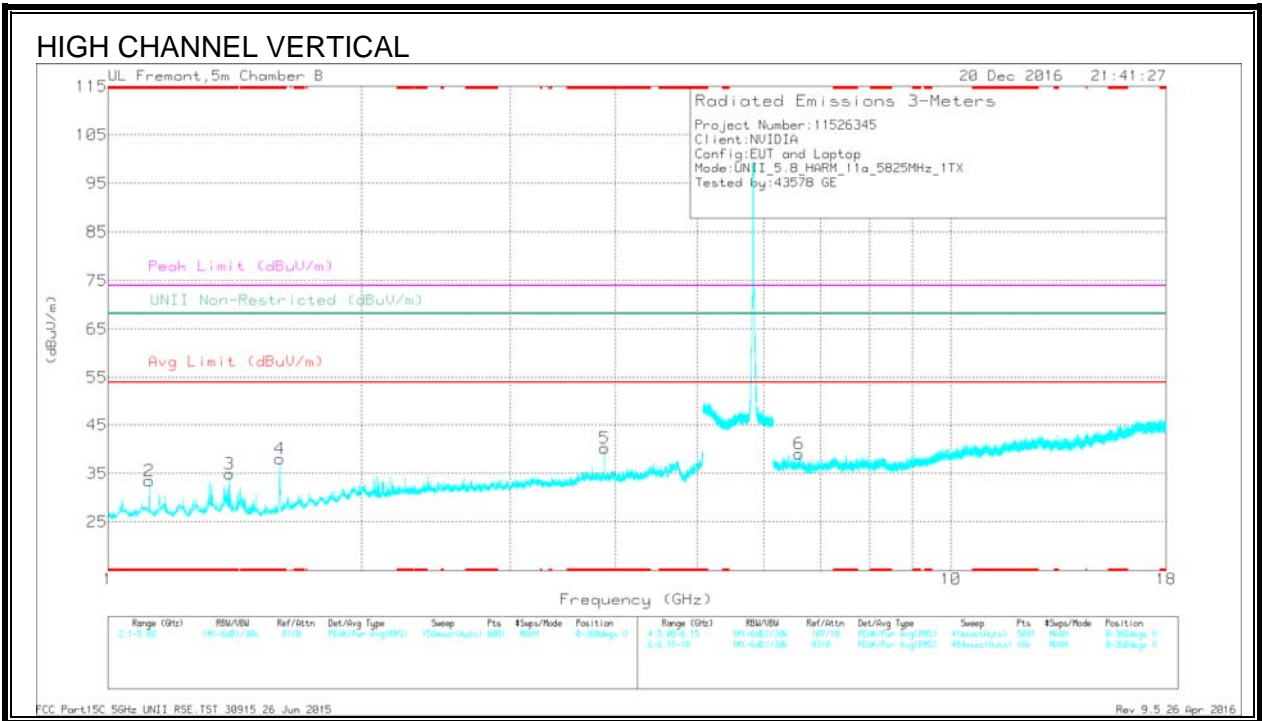
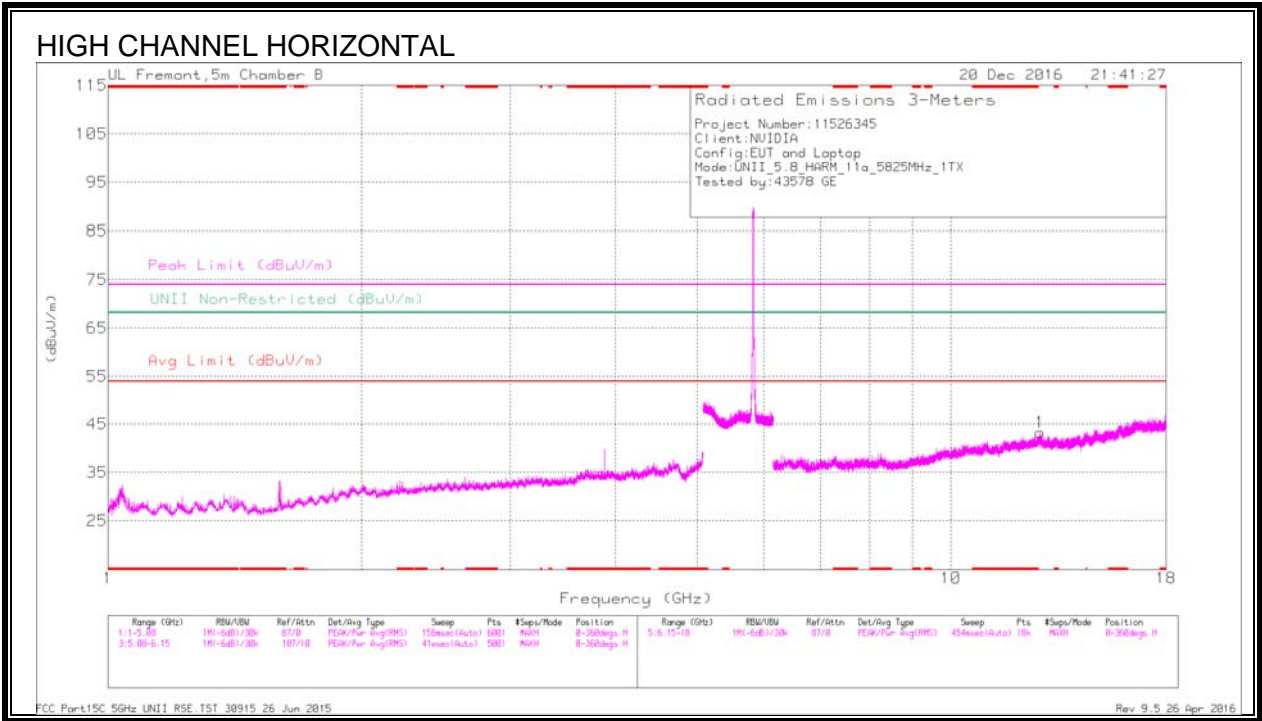
Radiated Emissions

Marker	Frequency (GHz)	Motor Reading (dBµV)	Det	AF T345 (dB/m)	Amp/CM/Hz/Pad (dB)	DC Corr (dB)	Corrected Reading (dBµV/m)	Avg Limit (dBµV/m)	Margin (dB)	Peak Limit (dBµV/m)	PK Margin (dB)	Unl Non-Restricted (dBµV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 1.031	46.31	PK-U	27.8	-36.1	0	38.01	-	-	74	-35.99	-	-	298	293	H
	* 1.034	32.06	ADR	27.8	-36.1	.29	24.05	54	-29.95	-	-	-	-	298	293	H
2	* 1.437	52.51	PK-U	28.5	-35.1	0	45.91	-	-	74	-28.09	-	-	142	377	V
	* 1.437	32.94	ADR	28.5	-35.1	.29	26.63	54	-27.37	-	-	-	-	142	377	V
3	* 1.597	55.88	PK-U	28.1	-35.2	0	48.78	-	-	74	-25.22	-	-	102	168	V
	* 1.6	34.67	ADR	28.1	-35.1	.29	27.96	54	-26.04	-	-	-	-	102	168	V
4	* 3.857	45.72	PK-U	33.4	-33.1	0	46.02	-	-	74	-27.98	-	-	134	352	V
	* 3.857	34.2	ADR	33.4	-33.1	.29	34.79	54	-19.21	-	-	-	-	134	352	V
6	* 17.761	32.45	PK-U	41.4	-23	0	50.85	-	-	74	-23.15	-	-	5	152	V
	* 17.761	22.26	ADR	41.4	-23	.29	40.95	54	-13.05	-	-	-	-	5	152	V
5	6.627	38.2	PK-U	35.5	-29.8	0	43.9	-	-	-	-	68.2	-24.3	98	117	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Hz/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U/Nb Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
2	* 1.119	41.48	PK-U	28	-35.5	0	33.98	-	-	74	-40.02	-	-	343	185	V
	* 1.118	30.45	ADR	28	-35.5	.29	23.24	54	-30.76	-	-	-	-	343	185	V
3	* 1.392	53.08	PK-U	28.9	-35	0	46.98	-	-	74	-27.02	-	-	134	397	V
	* 1.391	31.83	ADR	28.9	-35	.29	26.02	54	-27.98	-	-	-	-	134	397	V
4	* 1.599	57.08	PK-U	28.1	-35.1	0	50.08	-	-	74	-23.92	-	-	102	392	V
	* 1.595	34.43	ADR	28.1	-35.2	.29	27.62	54	-26.38	-	-	-	-	102	392	V
5	* 3.883	43.61	PK-U	33.3	-32.8	0	44.11	-	-	74	-29.89	-	-	286	286	V
	* 3.883	33.37	ADR	33.3	-32.8	.29	34.16	54	-19.84	-	-	-	-	286	286	V
6	6.606	38.74	PK-U	35.5	-30.3	0	43.94	-	-	-	-	68.2	-24.26	315	161	V
1	12.769	33.75	PK-U	39.4	-25.1	0	48.05	-	-	-	-	68.2	-20.15	347	131	H

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

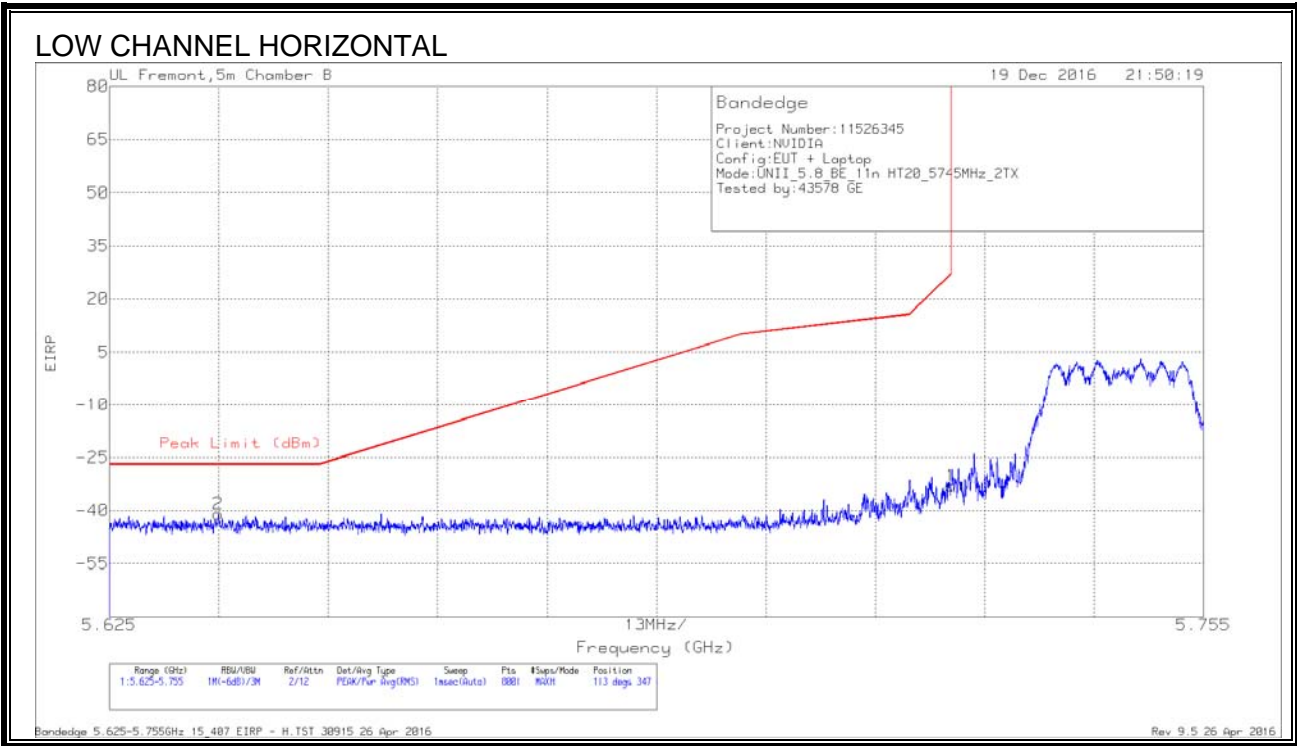
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.1.18. 11n HT20 2TX CDD MIMO MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

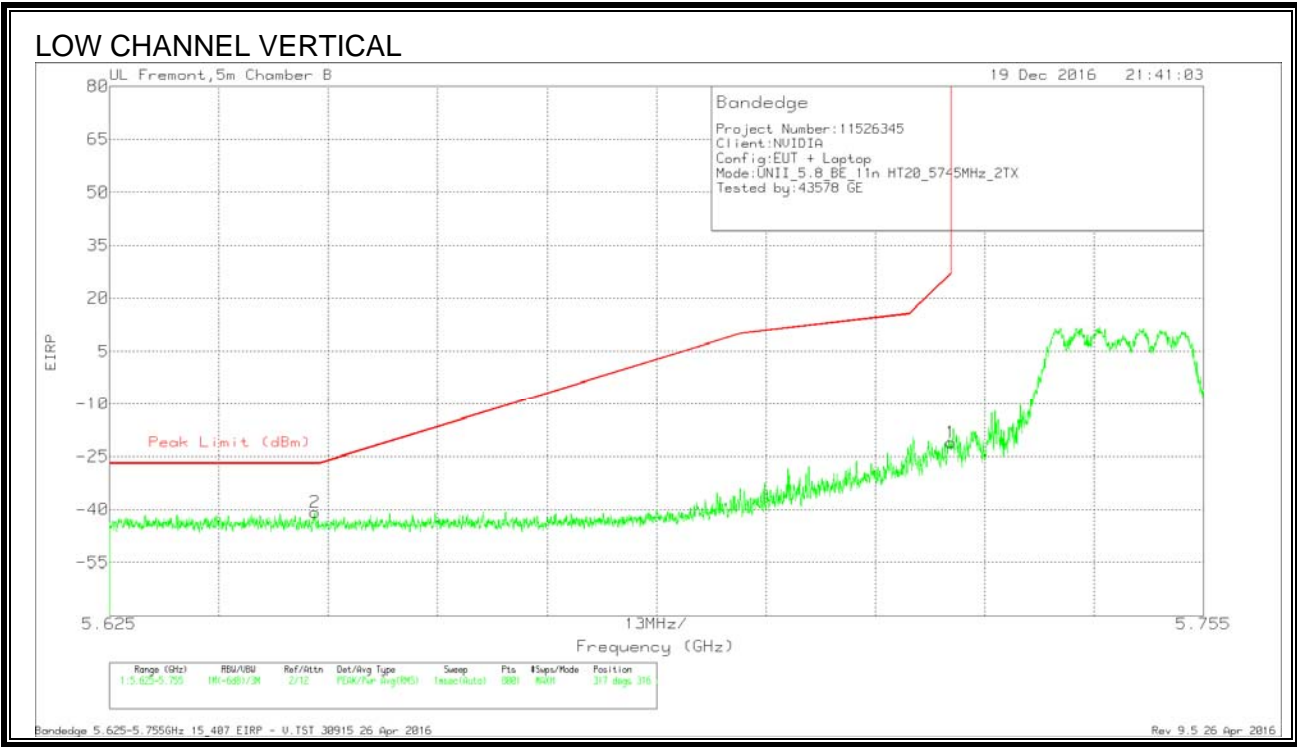
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Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.638	-66.07	Pk	34.7	-21.4	11.8	-40.97	-27	-13.97	113	347	H
1	5.725	-58.06	Pk	34.9	-21.7	11.8	-33.06	26.97	-60.03	113	347	H

Pk - Peak detector

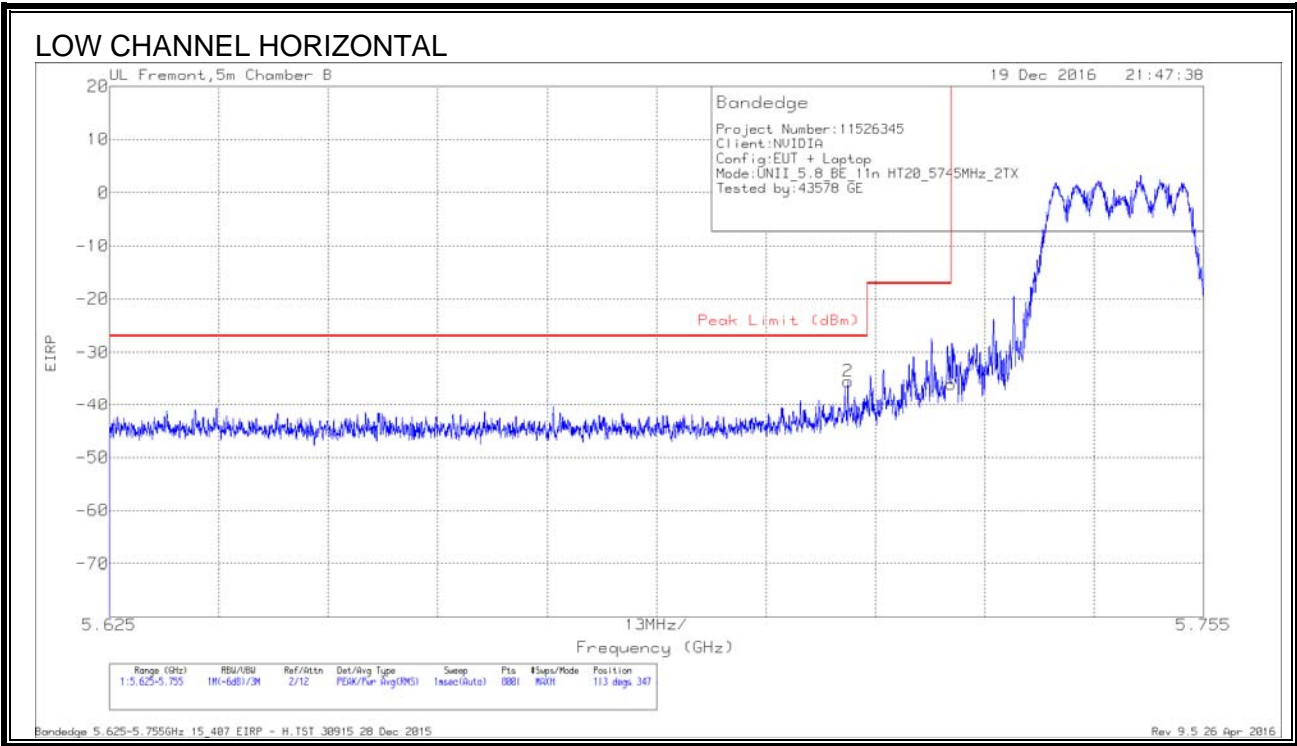


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.649	-65.63	Pk	34.7	-21.6	11.8	-40.73	-27	-13.73	317	316	V
1	5.725	-46.1	Pk	34.9	-21.7	11.8	-21.1	26.97	-48.07	317	316	V

Pk - Peak detector

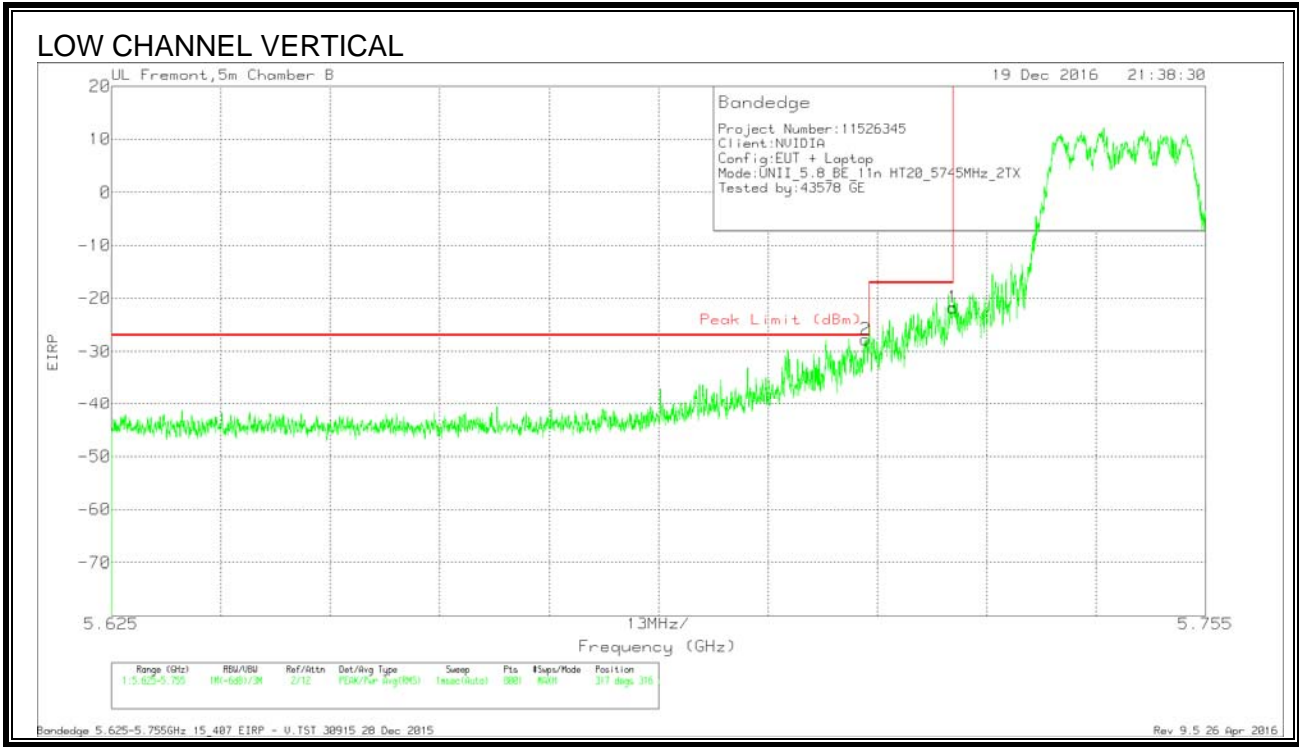
IC



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.713	-60.5	Pk	34.9	-21.7	11.8	-35.5	-27	-8.5	113	347	H
1	5.725	-61	Pk	34.9	-21.7	11.8	-36	-17	-19	113	347	H

Pk - Peak detector



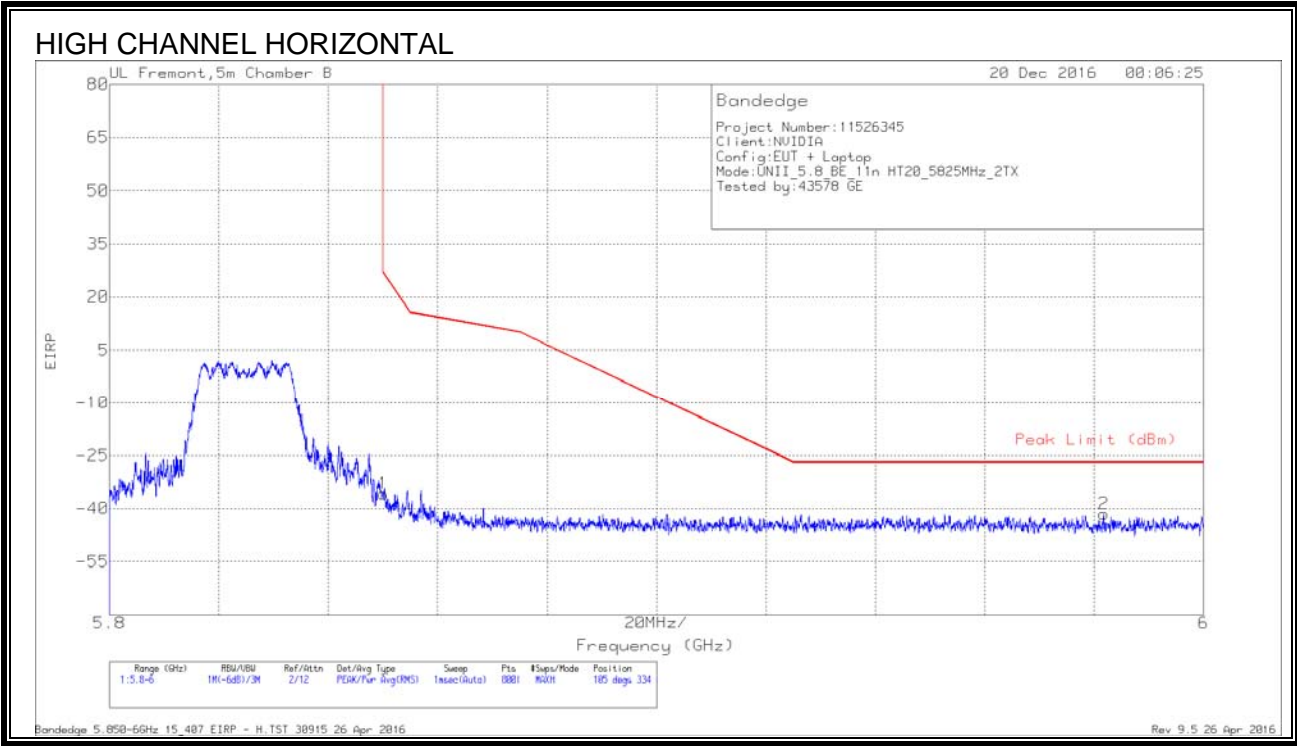
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.715	-52.72	Pk	34.9	-21.7	11.8	-27.72	-27	-.72	317	316	V
1	5.725	-46.75	Pk	34.9	-21.7	11.8	-21.75	-17	-4.75	317	316	V

Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)

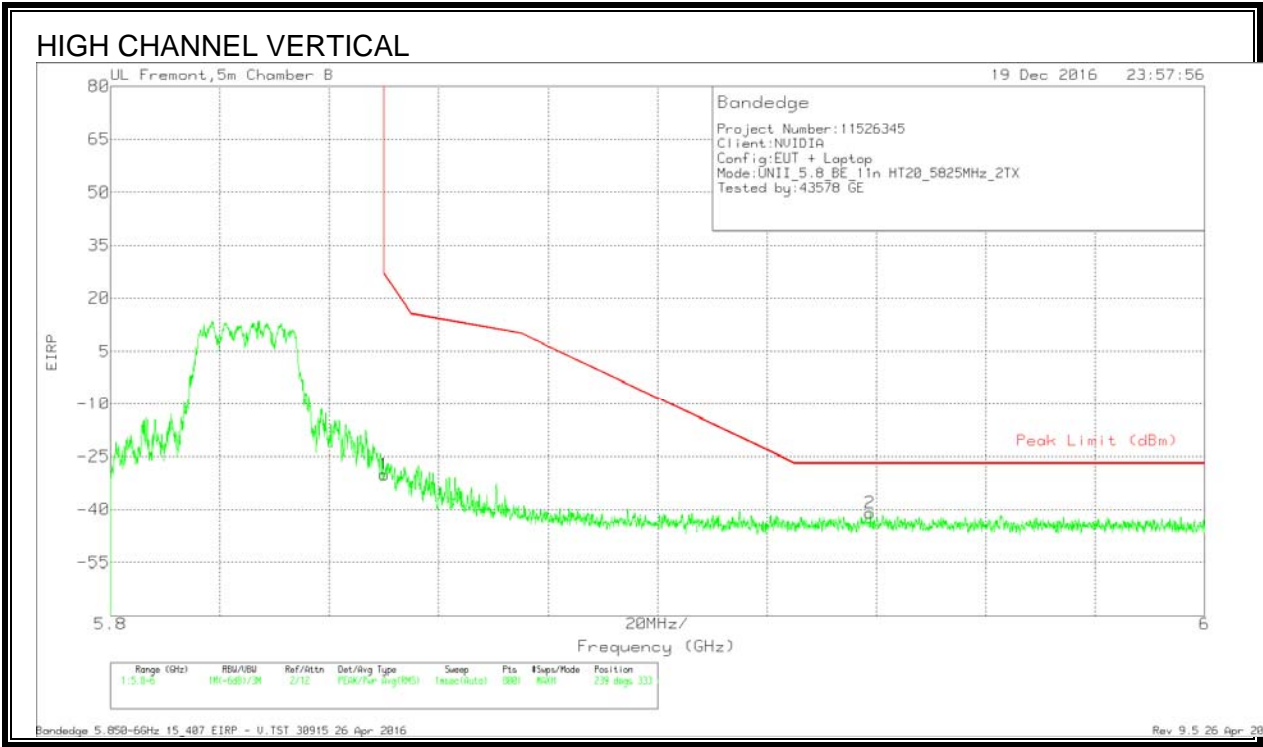
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Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-61.24	Pk	35.2	-21.6	11.8	-35.84	26.94	-62.78	105	334	H
2	5.982	-67.07	Pk	35.2	-21.5	11.8	-41.57	-27	-14.57	105	334	H

Pk - Peak detector

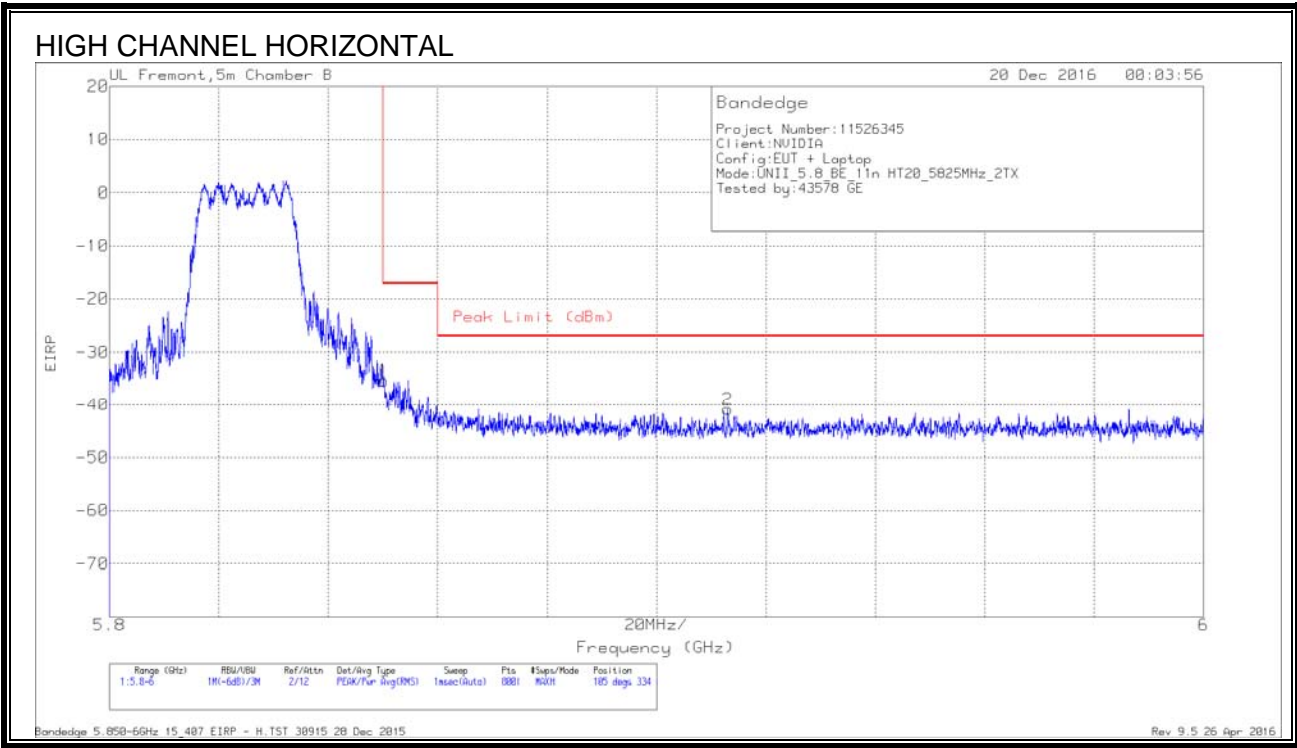


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-55.43	Pk	35.2	-21.6	11.8	-30.03	26.94	-56.97	239	333	V
2	5.939	-66.65	Pk	35.3	-21.5	11.8	-41.05	-27	-14.05	239	333	V

Pk - Peak detector

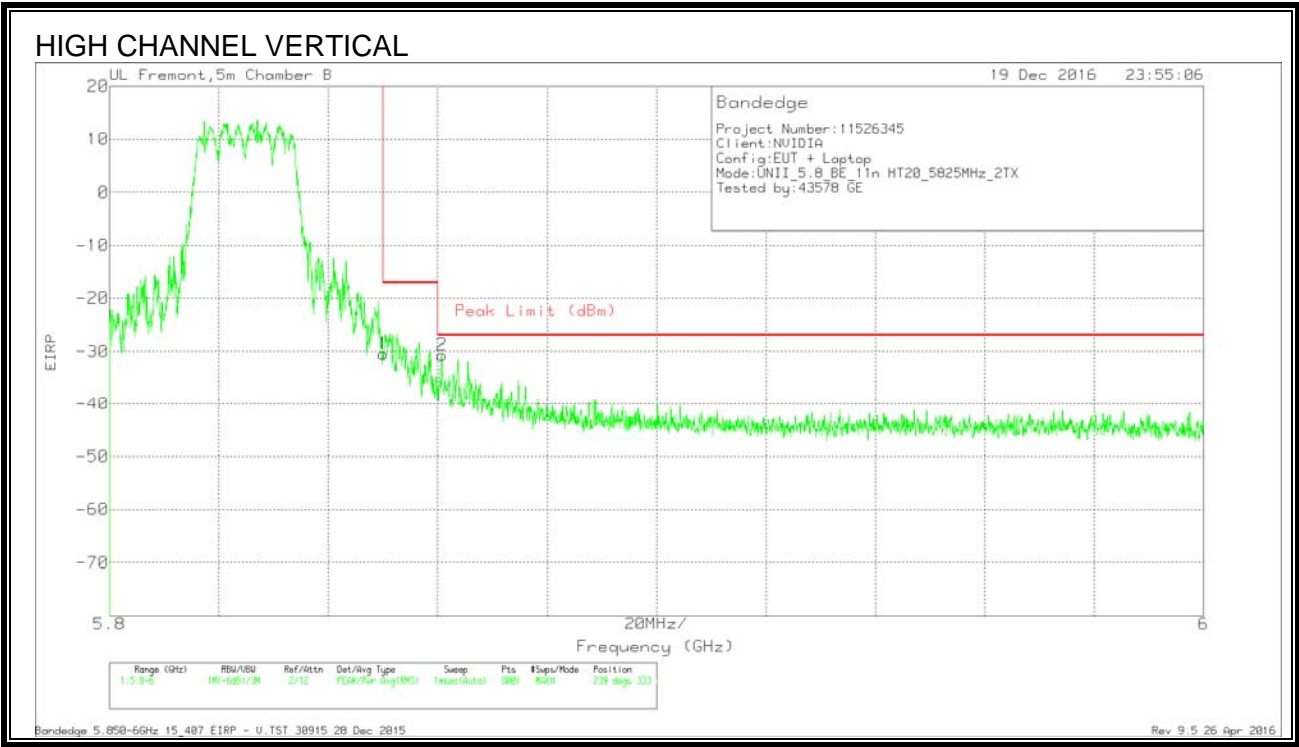
IC



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-60.79	Pk	35.2	-21.6	11.8	-35.39	-17	-18.39	105	334	H
2	5.913	-66.41	Pk	35.3	-21.6	11.8	-40.91	-27	-13.91	105	334	H

Pk - Peak detector

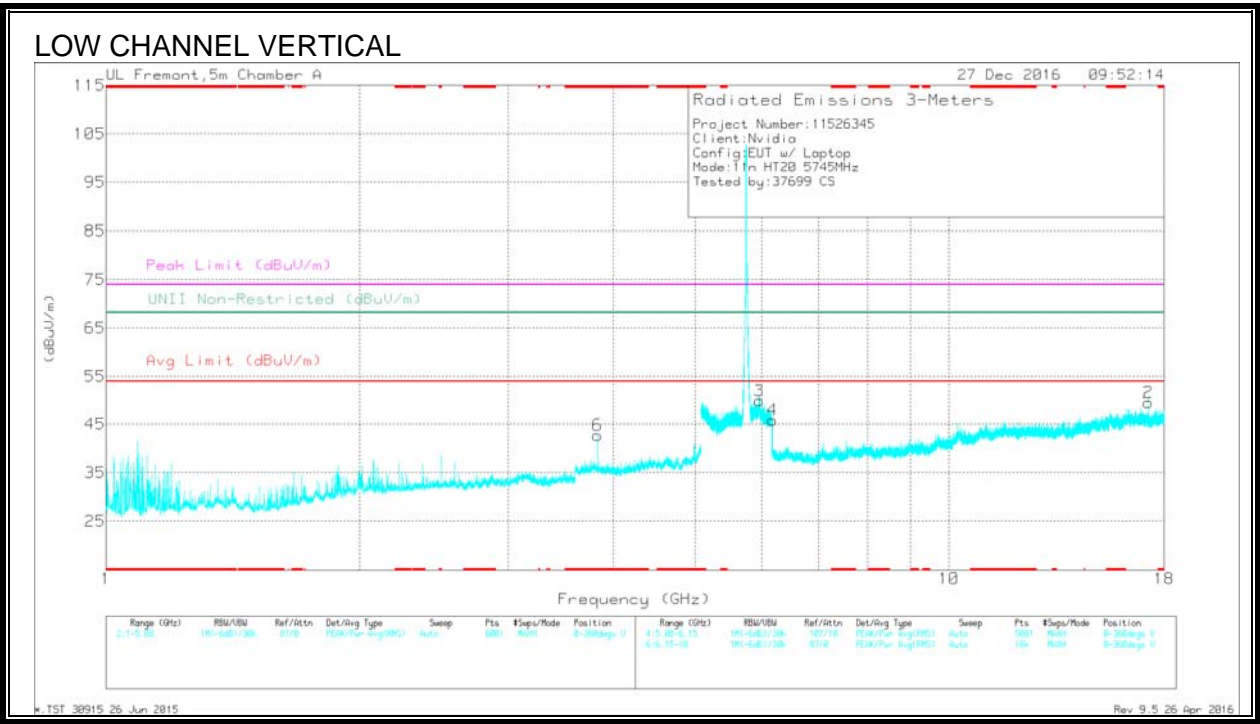
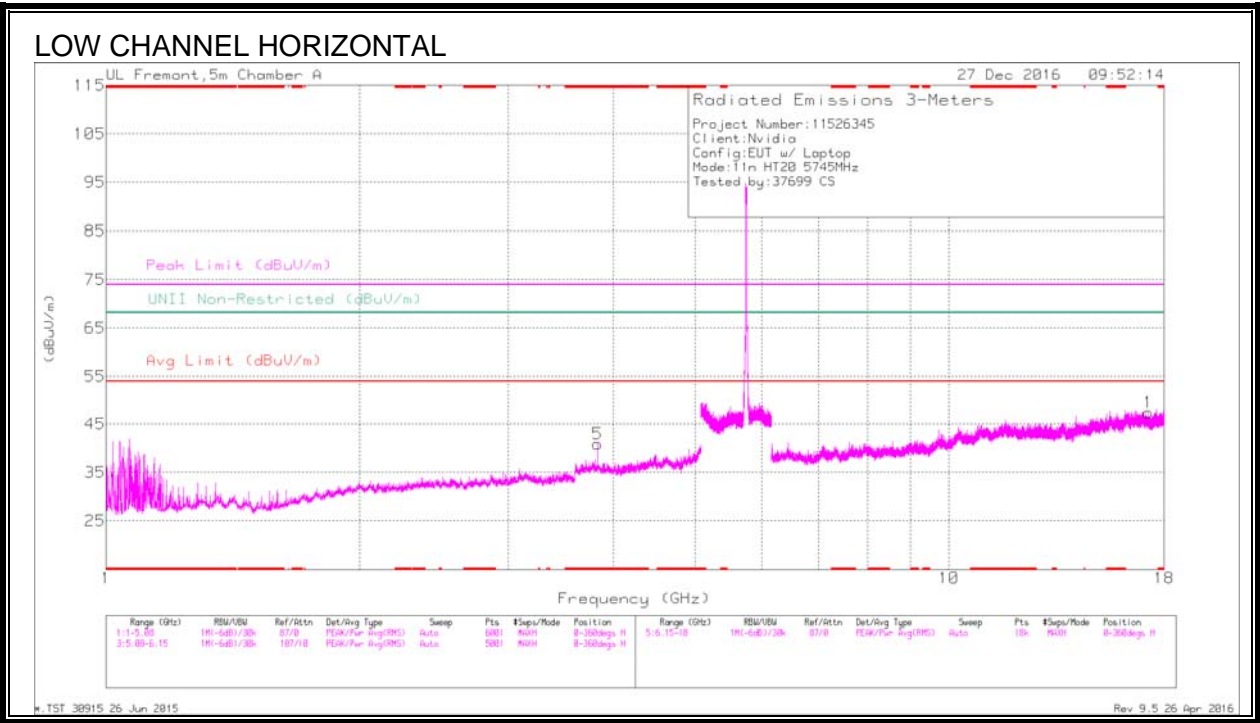


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-55.81	Pk	35.2	-21.6	11.8	-30.41	-17	-13.41	239	333	V
2	5.861	-56.11	Pk	35.2	-21.6	11.8	-30.71	-27	-3.71	239	333	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS



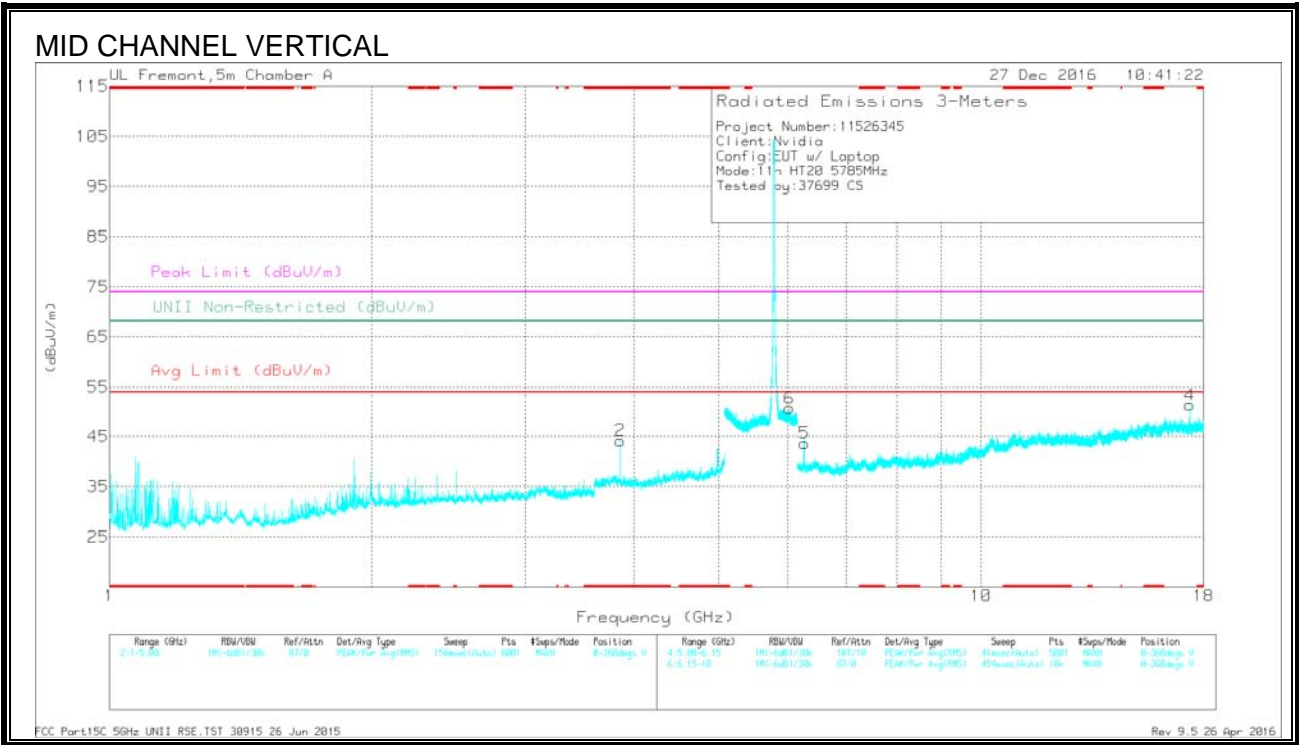
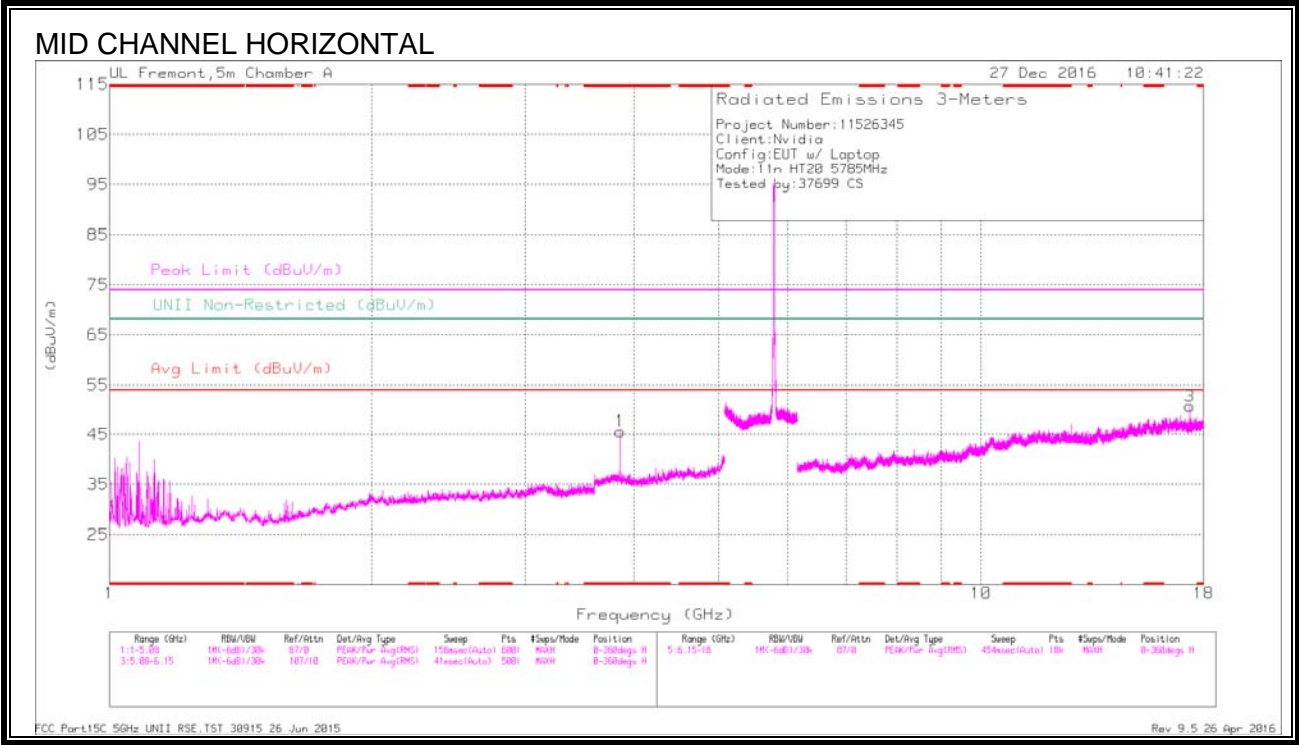
Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb/FHz/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
5	* 3.83	42.57	PK-U	33.6	-29.8	0	46.37	-	-	74	-27.63	-	-	241	112	H
	* 3.83	34.44	ADR	33.6	-29.8	.31	38.55	54	-15.45	-	-	-	-	241	112	H
6	* 3.83	42.59	PK-U	33.6	-29.8	0	46.39	-	-	74	-27.61	-	-	350	261	V
	* 3.83	36.87	ADR	33.6	-29.8	.31	40.98	54	-13.02	-	-	-	-	350	261	V
3	5.96	40.04	PK-U	35.2	-18.6	0	56.64	-	-	-	-	68.2	-11.56	314	115	V
4	6.169	41.99	PK-U	35.5	-26.2	0	51.29	-	-	-	-	68.2	-16.91	50	204	V
2	17.23	35.48	PK-U	41.1	-21	0	55.58	-	-	-	-	68.2	-12.62	53	195	H
1	17.233	38.34	PK-U	41	-21	0	58.34	-	-	-	-	68.2	-9.86	204	231	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



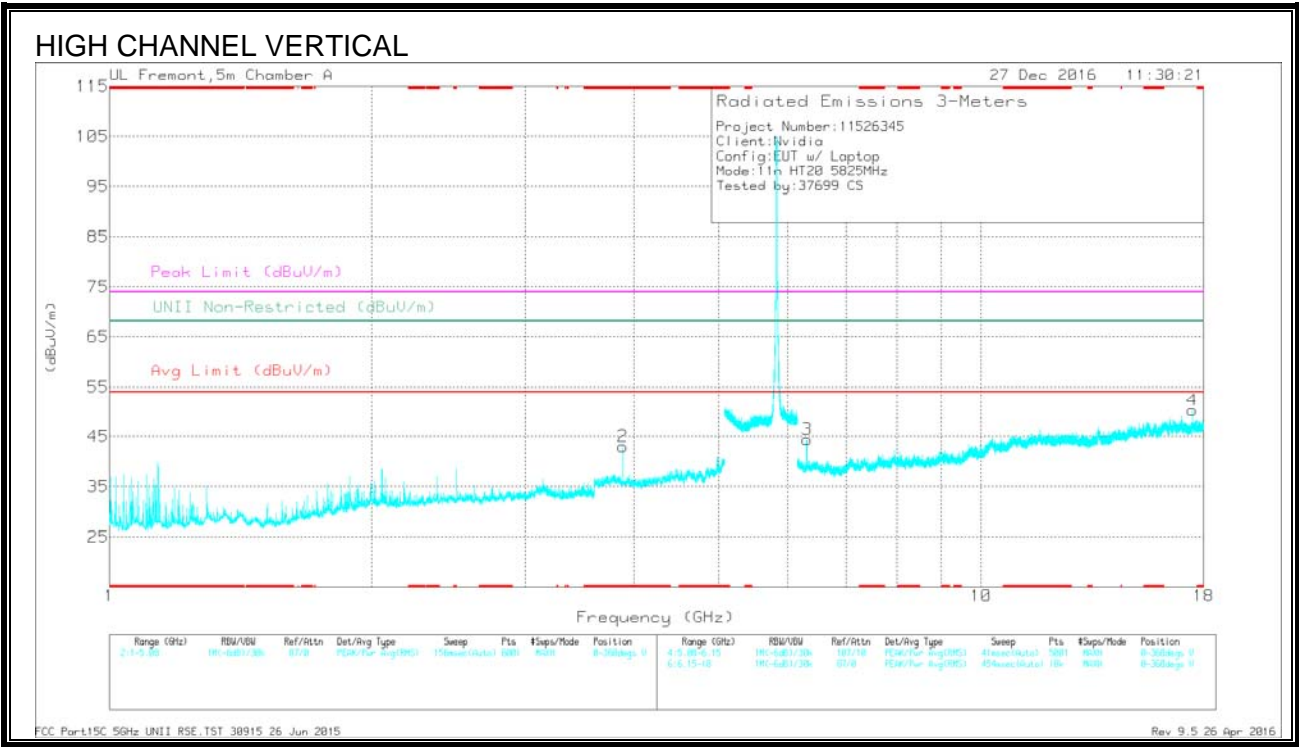
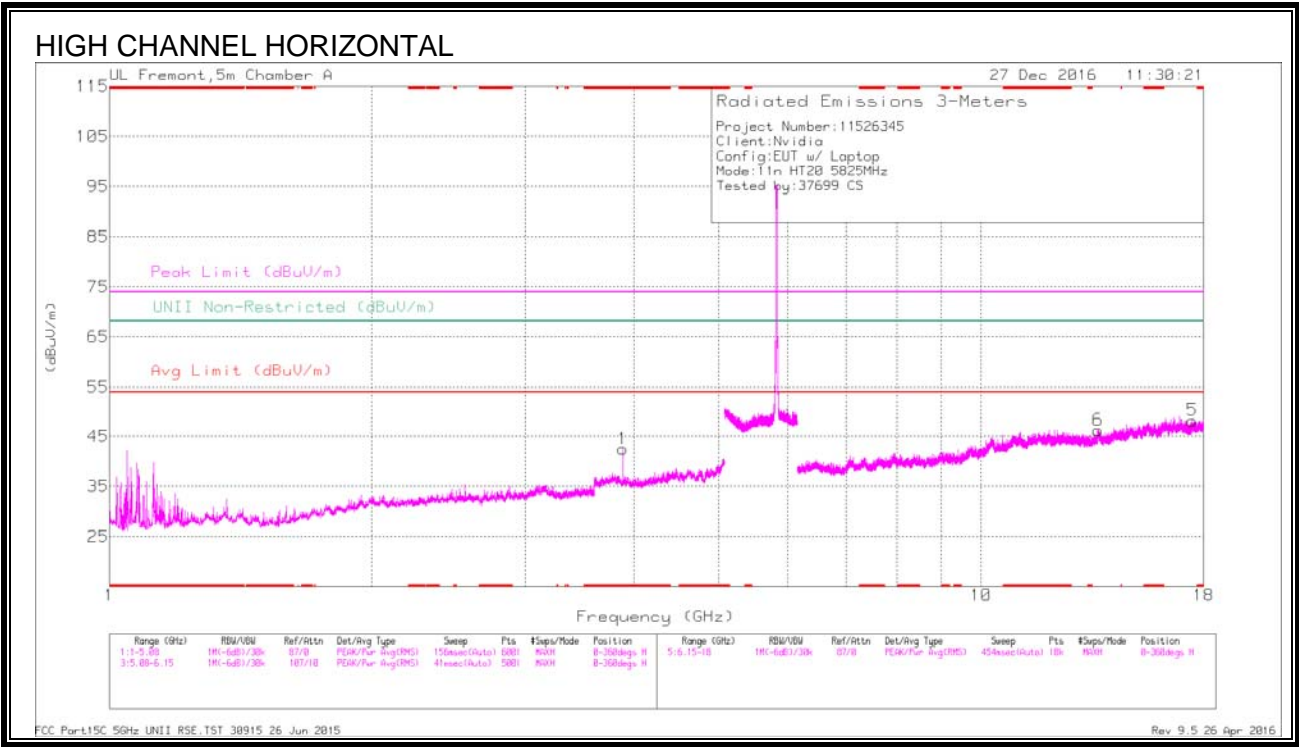
Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp(Cb)/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Drgs)	Height (cm)	Polarity
1	* 3.856	44.29	PK-U	33.6	-30.1	0	47.79	-	-	74	-26.21	-	-	230	171	H
	* 3.857	36.09	ADR	33.6	-30.1	.31	39.9	54	-14.1	-	-	-	-	230	171	H
2	* 3.857	45.25	PK-U	33.6	-30.1	0	48.75	-	-	74	-25.25	-	-	187	377	V
	* 3.857	40.88	ADR	33.6	-30.1	.31	44.69	54	-9.31	-	-	-	-	187	377	V
6	6.024	40.24	PK-U	35.3	-18.4	0	57.14	-	-	-	-	68.2	-11.06	40	170	V
5	6.272	41.75	PK-U	35.5	-26.2	0	51.05	-	-	-	-	68.2	-17.15	59	188	V
4	17.354	37.26	PK-U	40.9	-21.1	0	57.06	-	-	-	-	68.2	-11.14	208	226	V
3	17.365	36.73	PK-U	40.9	-21.1	0	56.53	-	-	-	-	68.2	-11.67	112	287	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp(Cb)/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Drops)	Height (cm)	Polarity
1	* 3.883	45.51	PK-U	33.6	-30.5	0	48.61	-	-	74	-25.39	-	-	234	155	H
	* 3.883	38.04	ADR	33.6	-30.5	.31	41.45	54	-12.55	-	-	-	-	234	155	H
2	* 3.883	44.09	PK-U	33.6	-30.5	0	47.19	-	-	74	-26.81	-	-	233	106	V
	* 3.883	37.48	ADR	33.6	-30.5	.31	40.89	54	-13.11	-	-	-	-	233	106	V
3	6.308	39.96	PK-U	35.5	-25.9	0	49.56	-	-	-	-	68.2	-18.64	92	204	V
6	13.621	33.41	PK-U	39	-20.5	0	51.91	-	-	-	-	68.2	-16.29	156	200	H
5	17.469	33.82	PK-U	40.8	-20.7	0	53.92	-	-	-	-	68.2	-14.28	53	176	H
4	17.474	37.14	PK-U	40.8	-20.7	0	57.24	-	-	-	-	68.2	-10.96	204	213	V

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

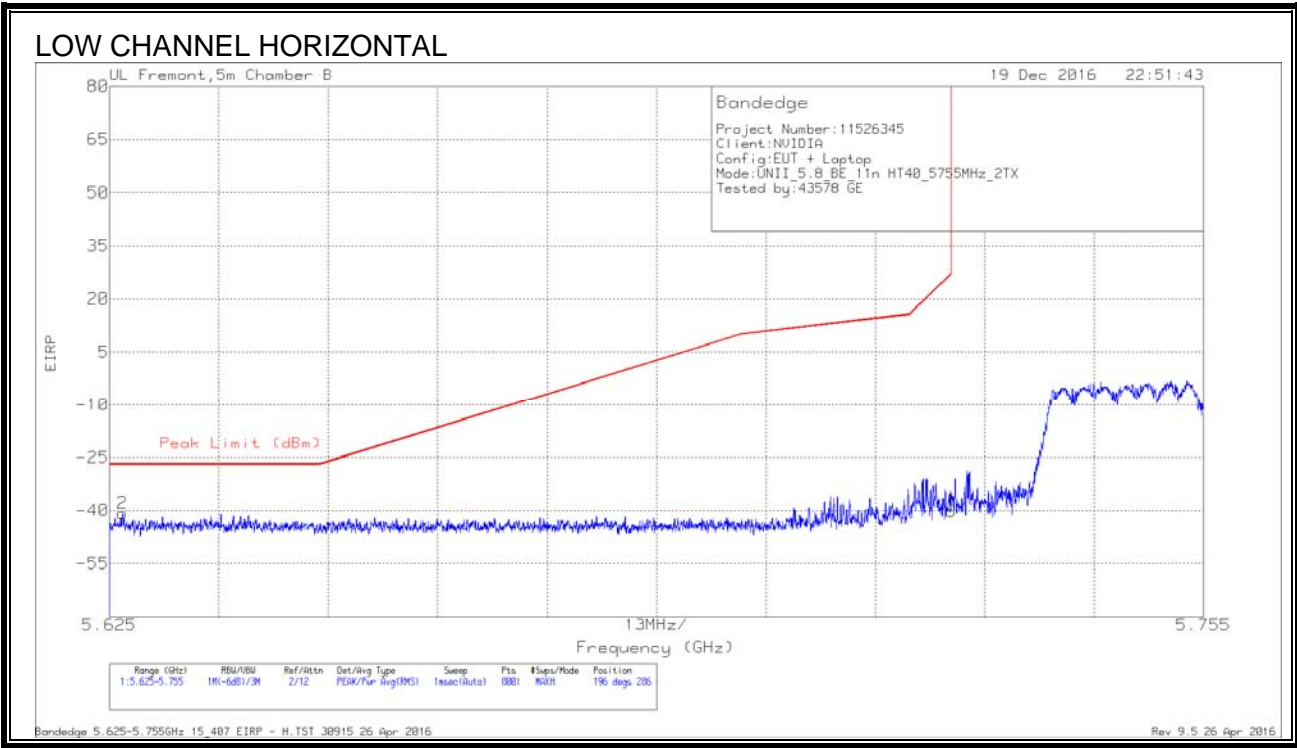
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.1.19.11n HT40 2TX CDD MIMO MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

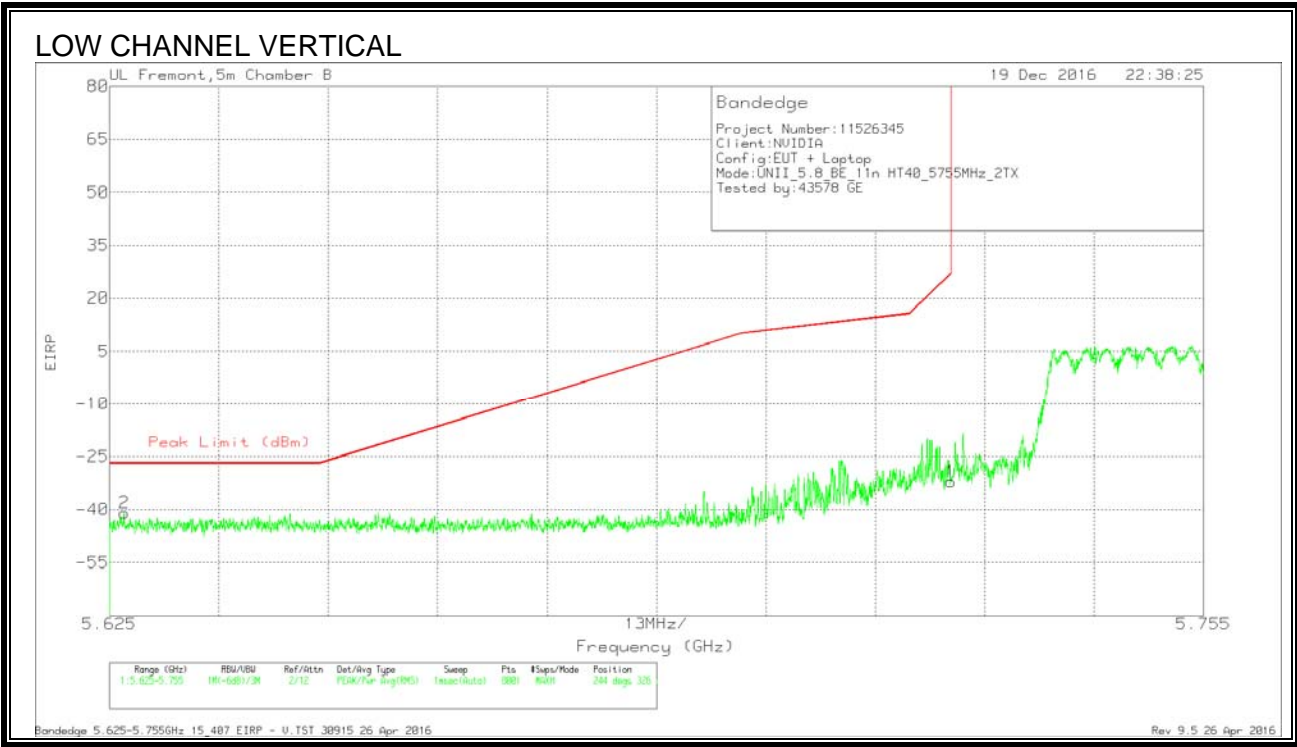
FCC



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.627	-66.13	Pk	34.6	-21.1	11.8	-40.83	-27	-13.83	196	286	H
1	5.725	-65.19	Pk	34.9	-21.7	11.8	-40.19	26.97	-67.16	196	286	H

Pk - Peak detector

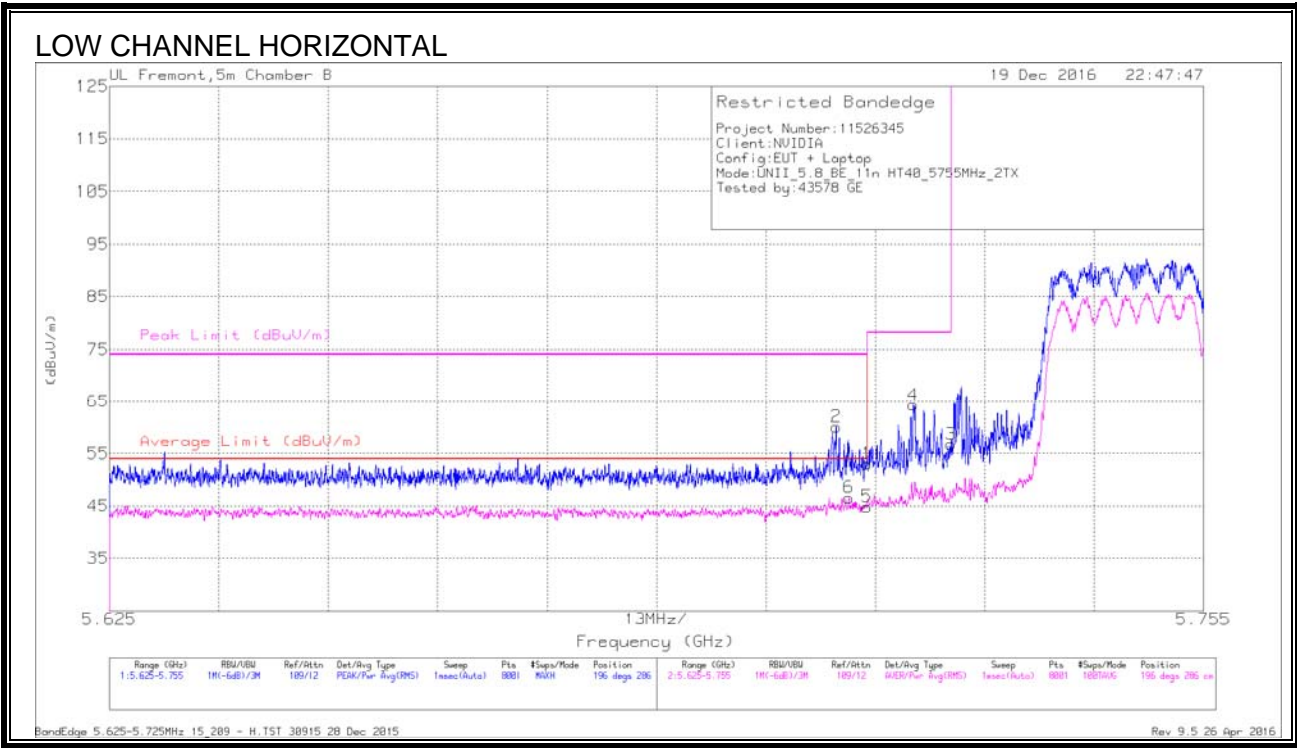


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.627	-66.34	Pk	34.6	-21.1	11.8	-41.04	-27	-14.04	244	326	V
1	5.725	-57.21	Pk	34.9	-21.7	11.8	-32.21	26.97	-59.18	244	326	V

Pk - Peak detector

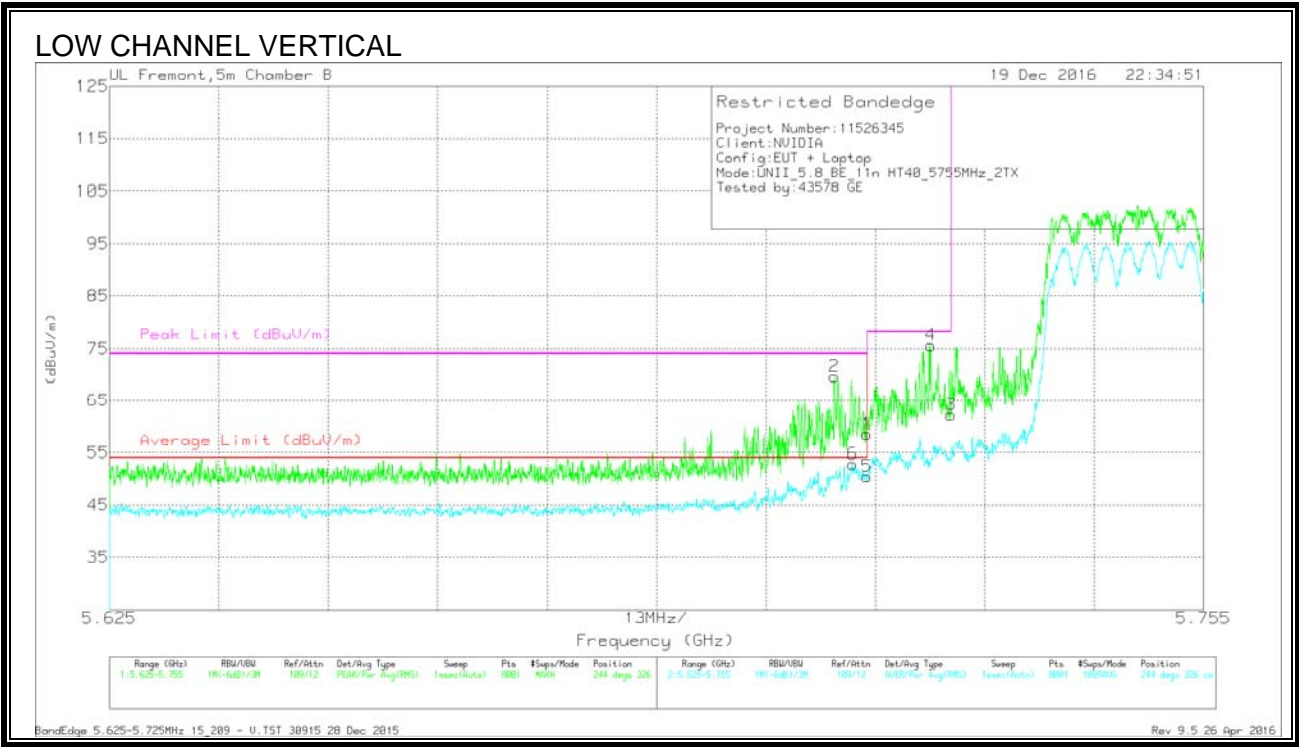
IC



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT345 (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)	Altitude (Degs)	Height (cm)	Polarity
2	5.711	46.75	Pk	34.9	-21.6	0	60.05	-	-	74	-13.95	196	286	H
6	5.713	32.76	RMS	34.9	-21.7	.62	46.58	54	-7.42	-	-	196	286	H
1	5.715	39.77	Pk	34.9	-21.6	0	53.07	-	-	74	-20.93	196	286	H
5	5.715	30.87	RMS	34.9	-21.6	.62	44.79	54	-9.21	-	-	196	286	H
4	5.721	50.86	Pk	34.9	-21.4	0	64.36	-	-	78.2	-13.84	196	286	H
3	5.725	43.54	Pk	34.9	-21.7	0	56.74	-	-	78.2	-21.46	196	286	H

Pk - Peak detector
RMS - RMS detection



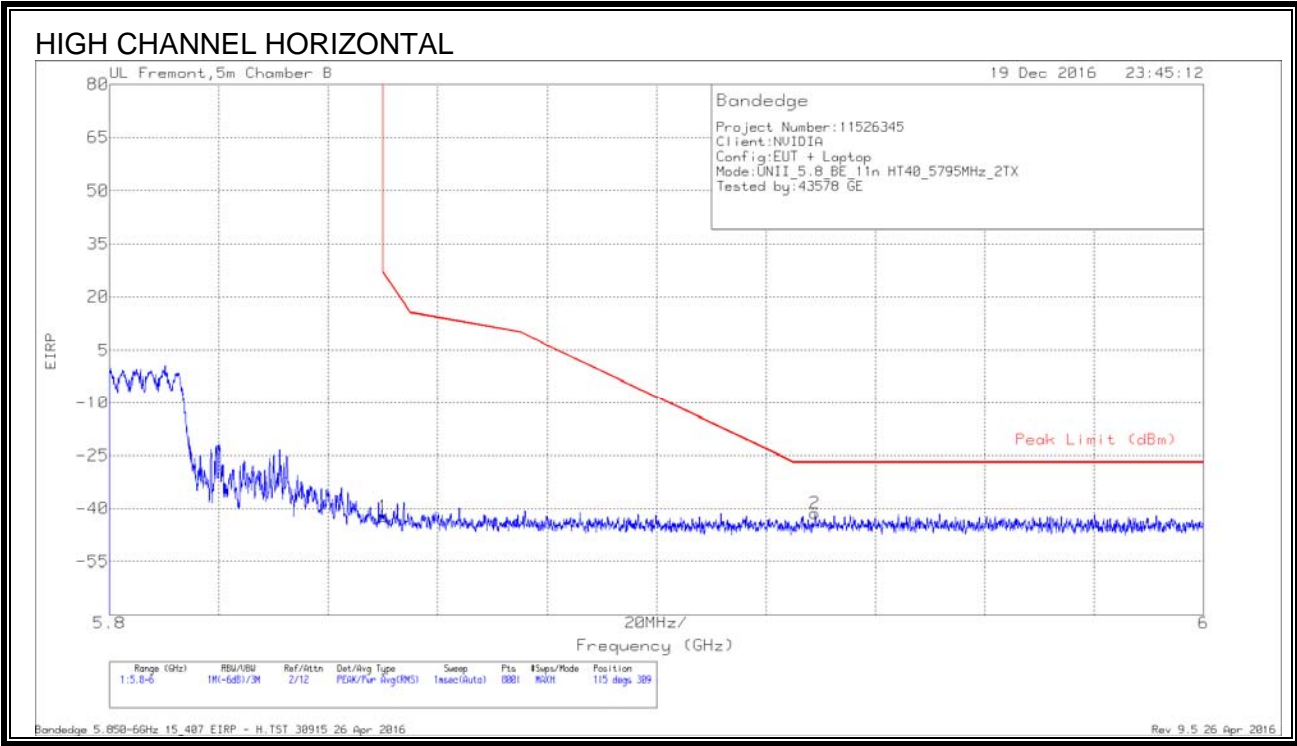
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/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
2	5.711	56.28	Pk	34.9	-21.5	0	69.68	-	-	74	-4.32	244	326	V
6	5.713	38.91	RMS	34.9	-21.7	.62	52.73	54	-1.27	-	-	244	326	V
1	5.715	45.22	Pk	34.9	-21.6	0	58.52	-	-	74	-15.48	244	326	V
5	5.715	36.46	RMS	34.9	-21.6	.62	50.38	54	-3.62	-	-	244	326	V
4	5.723	62.43	Pk	34.9	-21.7	0	75.63	-	-	78.2	-2.57	244	326	V
3	5.725	49.04	Pk	34.9	-21.7	0	62.24	-	-	78.2	-15.96	244	326	V

Pk - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

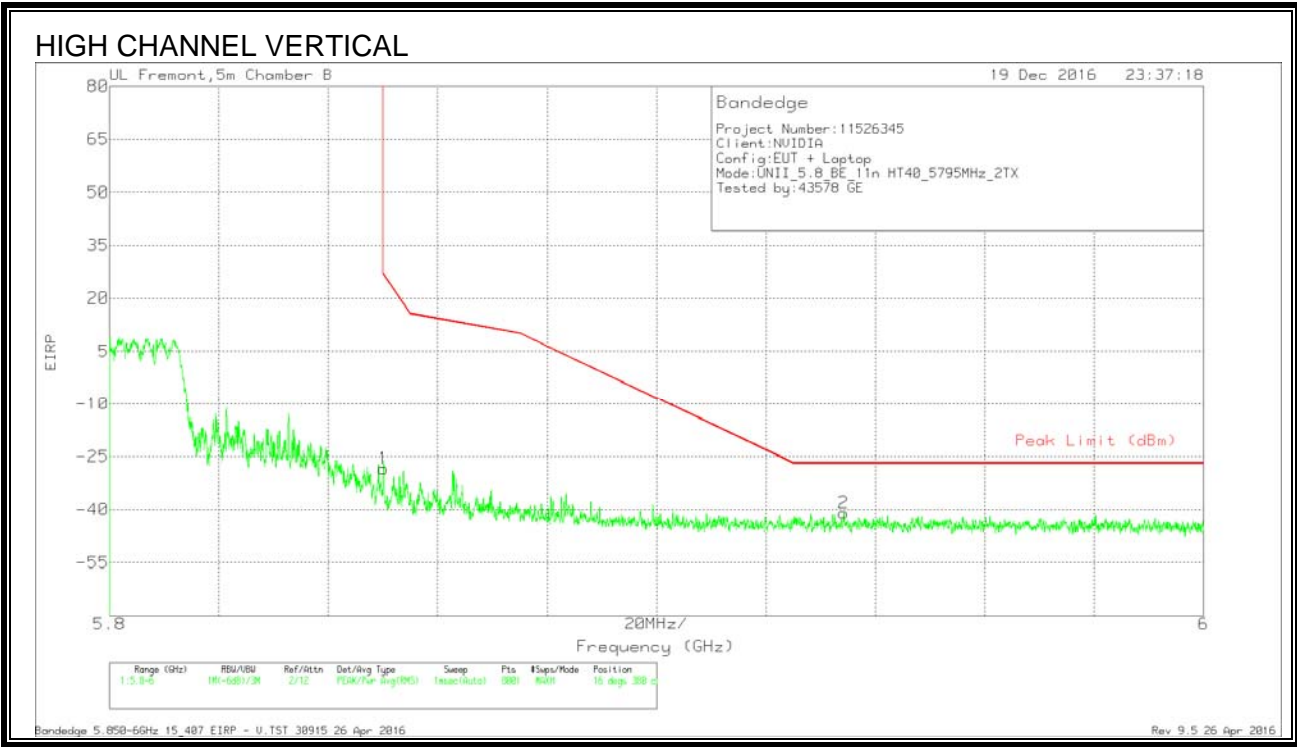
FCC



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-67.74	Pk	35.2	-21.6	11.8	-42.34	26.94	-69.28	115	309	H
2	5.929	-66.97	Pk	35.3	-21.5	11.8	-41.37	-27	-14.37	115	309	H

Pk - Peak detector

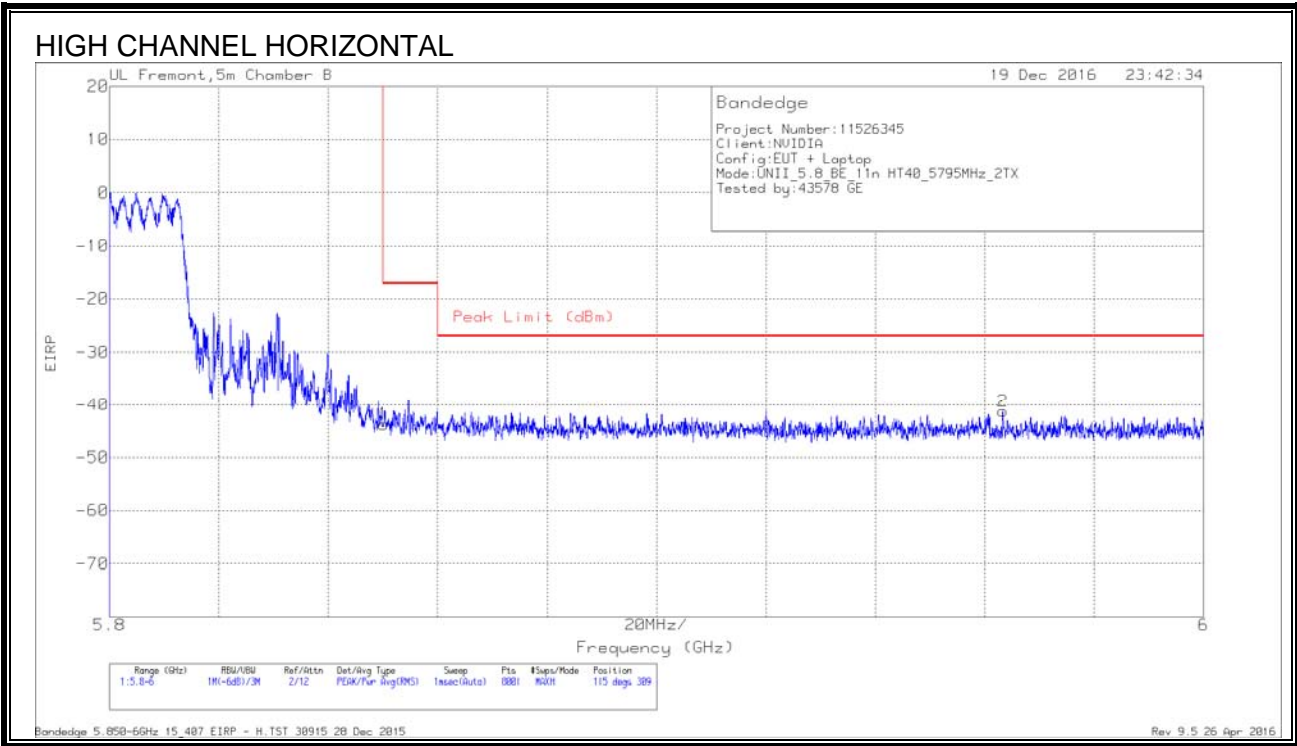


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-53.93	Pk	35.2	-21.6	11.8	-28.53	26.94	-55.47	16	380	V
2	5.934	-66.46	Pk	35.3	-21.6	11.8	-40.96	-27	-13.96	16	380	V

Pk - Peak detector

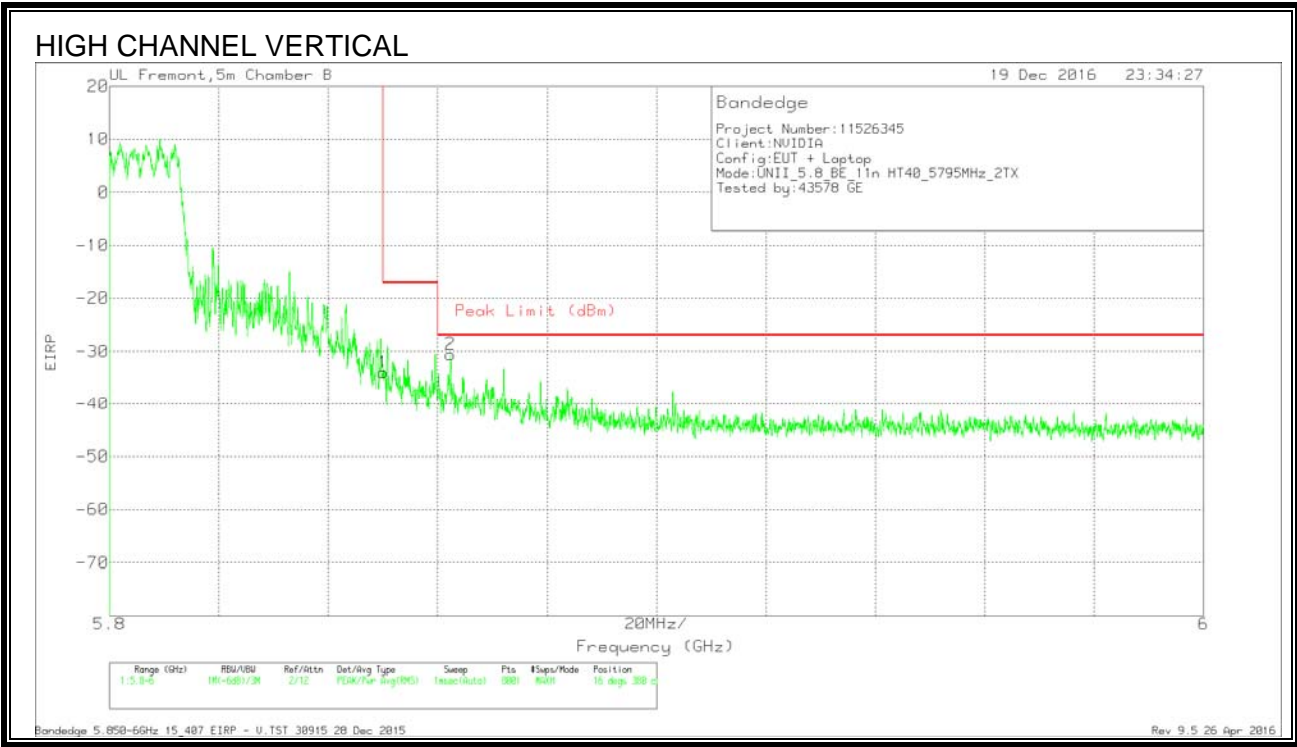
IC



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-69.14	Pk	35.2	-21.6	11.8	-43.74	-17	-26.74	115	309	H
2	5.963	-67.01	Pk	35.2	-21.2	11.8	-41.21	-27	-14.21	115	309	H

Pk - Peak detector

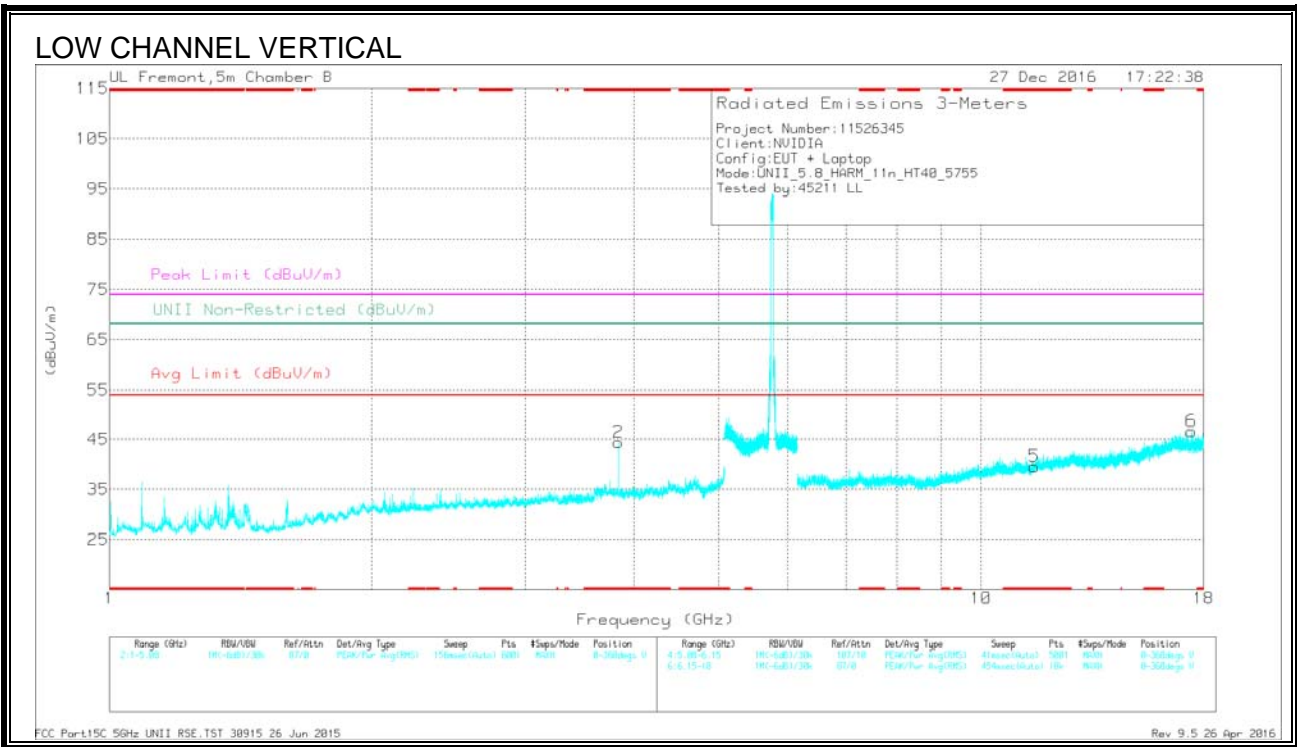
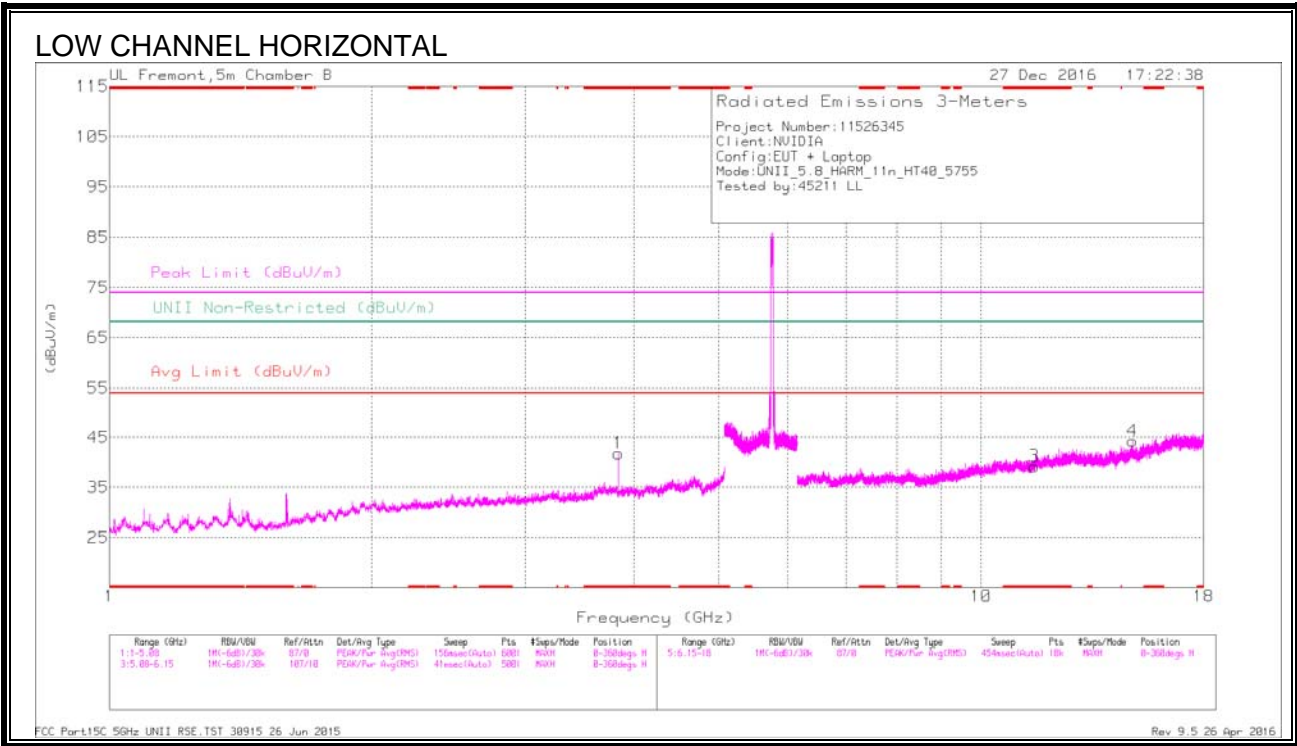


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-59.43	Pk	35.2	-21.6	11.8	-34.03	-17	-17.03	16	380	V
2	5.862	-56.22	Pk	35.2	-21.3	11.8	-30.52	-27	-3.52	16	380	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS



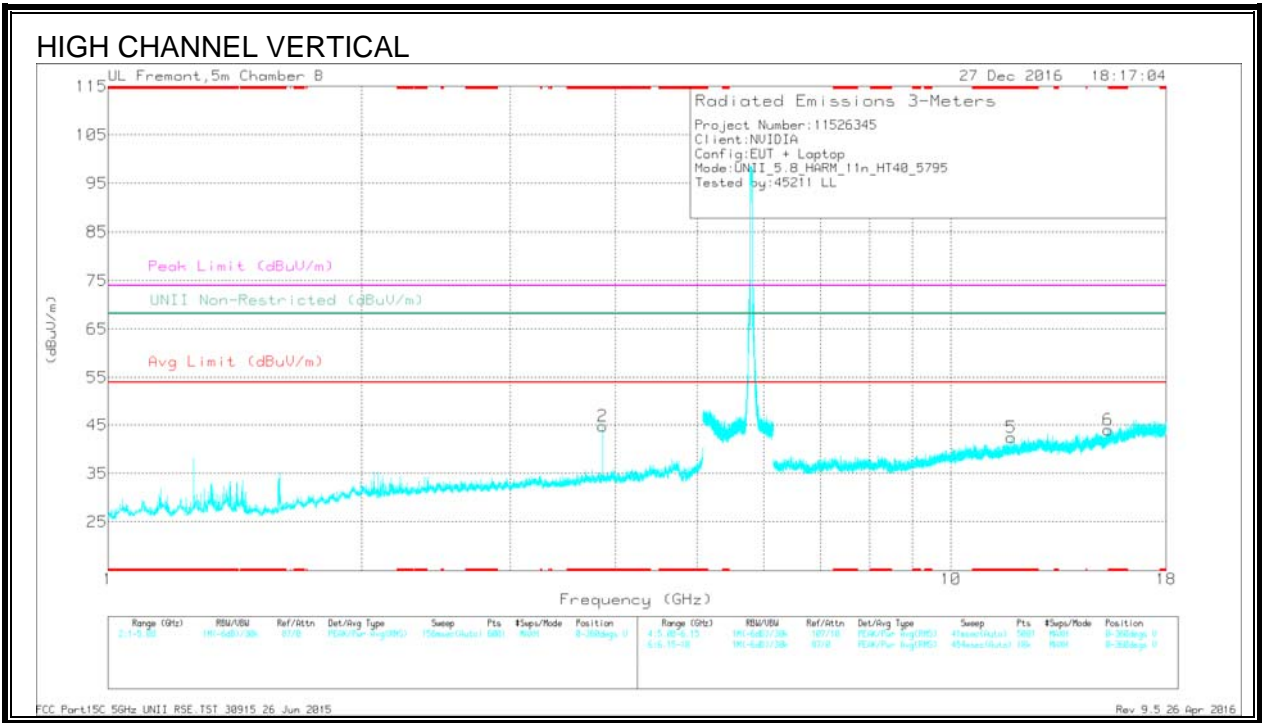
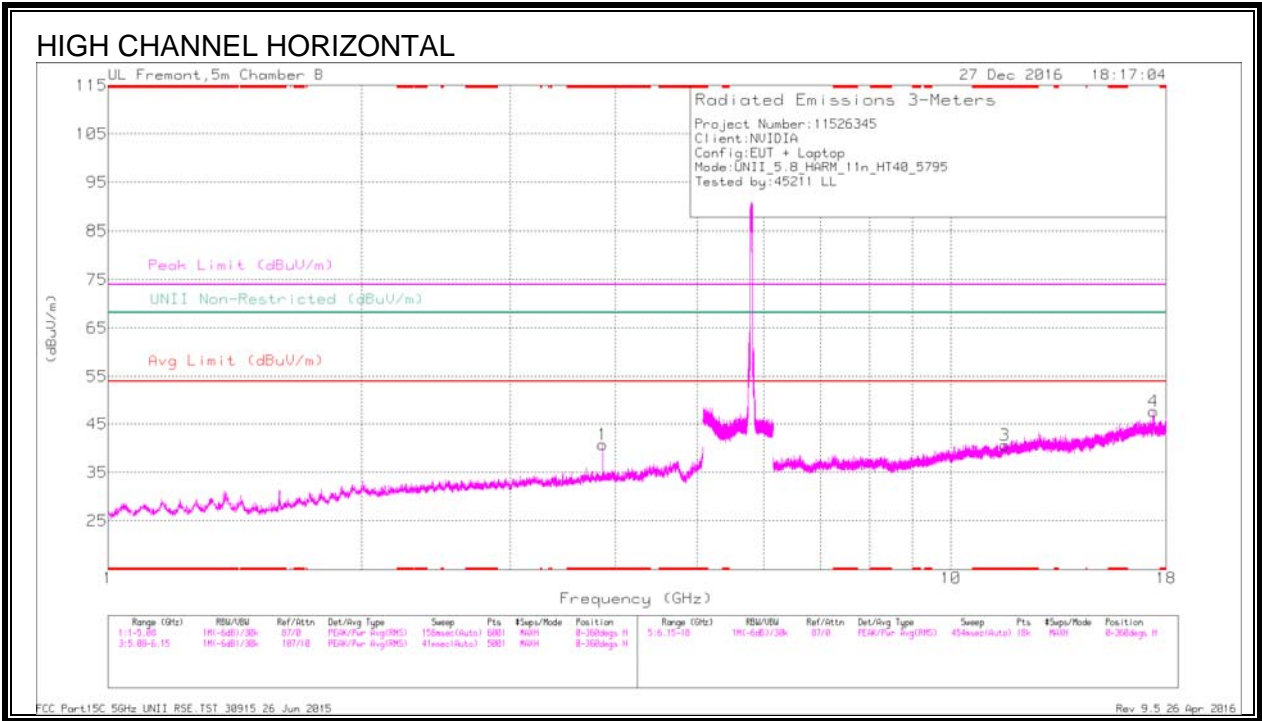
Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Ch/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 3.837	43.58	PK-U	33.4	-33.1	0	43.88	-	-	74	-30.12	-	-	23	112	H
	* 3.837	36.57	ADR	33.4	-33.1	.62	37.49	54	-16.51	-	-	-	-	23	112	H
2	* 3.837	47.28	PK-U	33.4	-33.1	0	47.58	-	-	74	-26.42	-	-	132	174	V
	* 3.837	43.7	ADR	33.4	-33.1	.62	44.62	54	-9.38	-	-	-	-	132	174	V
3	* 11.502	33.14	PK-U	38.3	-25.8	0	45.64	-	-	74	-28.36	-	-	159	176	H
	* 11.499	22.77	ADR	38.3	-25.8	.62	35.89	54	-18.11	-	-	-	-	159	176	H
5	* 11.5	33.82	PK-U	38.3	-25.8	0	46.32	-	-	74	-27.68	-	-	224	105	V
	* 11.508	22.49	ADR	38.3	-25.7	.62	35.71	54	-18.29	-	-	-	-	224	105	V
4	14.913	33.67	PK-U	39.8	-24.8	0	48.67	-	-	-	-	68.2	-19.53	234	129	H
6	17.433	32.28	PK-U	41.3	-22.1	0	51.48	-	-	-	-	68.2	-16.72	179	165	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Ch/FHz/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.863	44.8	PK-U	33.4	-33	0	45.2	-	-	74	-28.8	-	-	43	140	H
	* 3.863	38.73	ADR	33.4	-33	.62	39.75	54	-14.25	-	-	-	-	43	140	H
2	* 3.863	47.74	PK-U	33.4	-33	0	48.14	-	-	74	-25.86	-	-	130	212	V
	* 3.863	44.19	ADR	33.4	-33	.62	45.21	54	-8.79	-	-	-	-	130	212	V
3	* 11.598	32.39	PK-U	38.4	-25	0	45.79	-	-	74	-28.21	-	-	311	221	H
	* 11.576	21.78	ADR	38.4	-24.8	.62	36	54	-18	-	-	-	-	311	221	H
5	* 11.799	33.03	PK-U	38.7	-25.5	0	46.23	-	-	74	-27.77	-	-	100	221	V
	* 11.799	22.19	ADR	38.7	-25.5	.62	36.01	54	-17.99	-	-	-	-	100	221	V
6	* 15.604	33.12	PK-U	40.3	-24.4	0	49.02	-	-	74	-24.98	-	-	207	168	V
	* 15.681	22.4	ADR	40.4	-24.7	.62	38.72	54	-15.28	-	-	-	-	207	168	V
4	17.375	34.6	PK-U	41.3	-22.6	0	53.3	-	-	-	-	68.2	-14.9	170	205	H

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

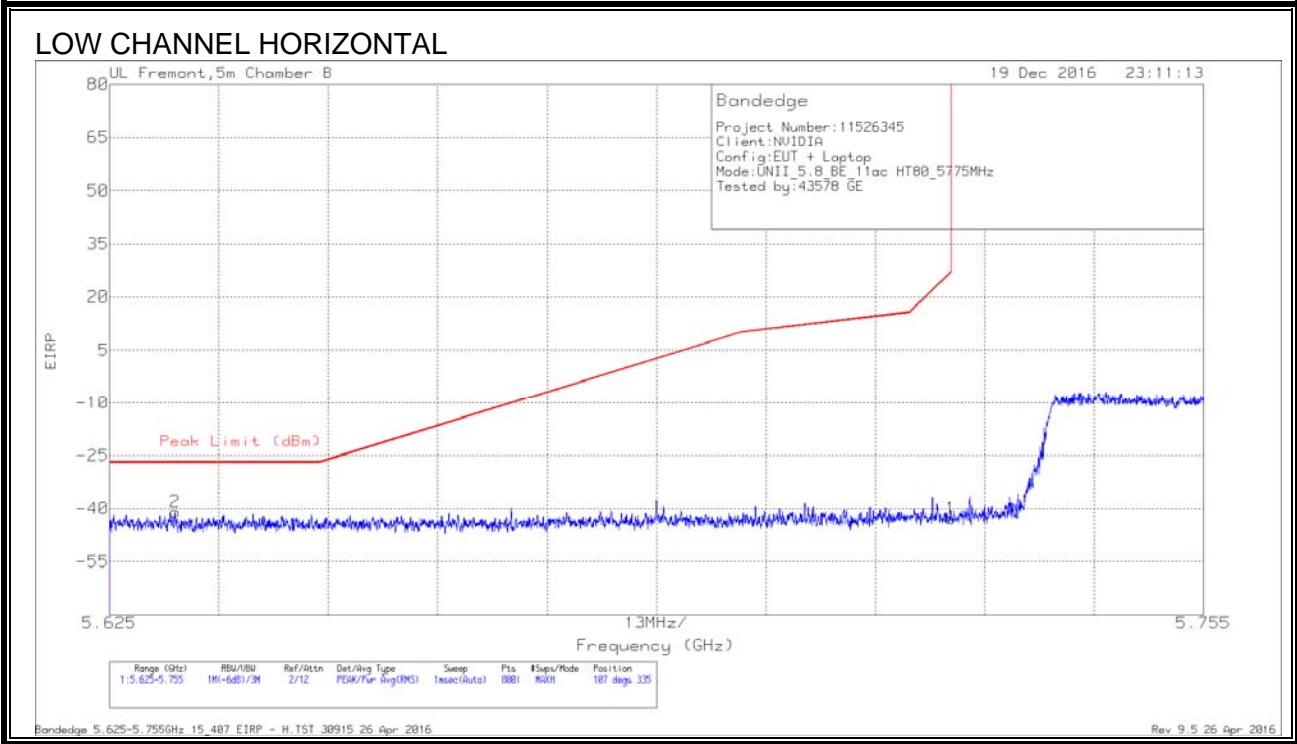
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.1.20.11ac HT80 2TX CDD MIMO MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

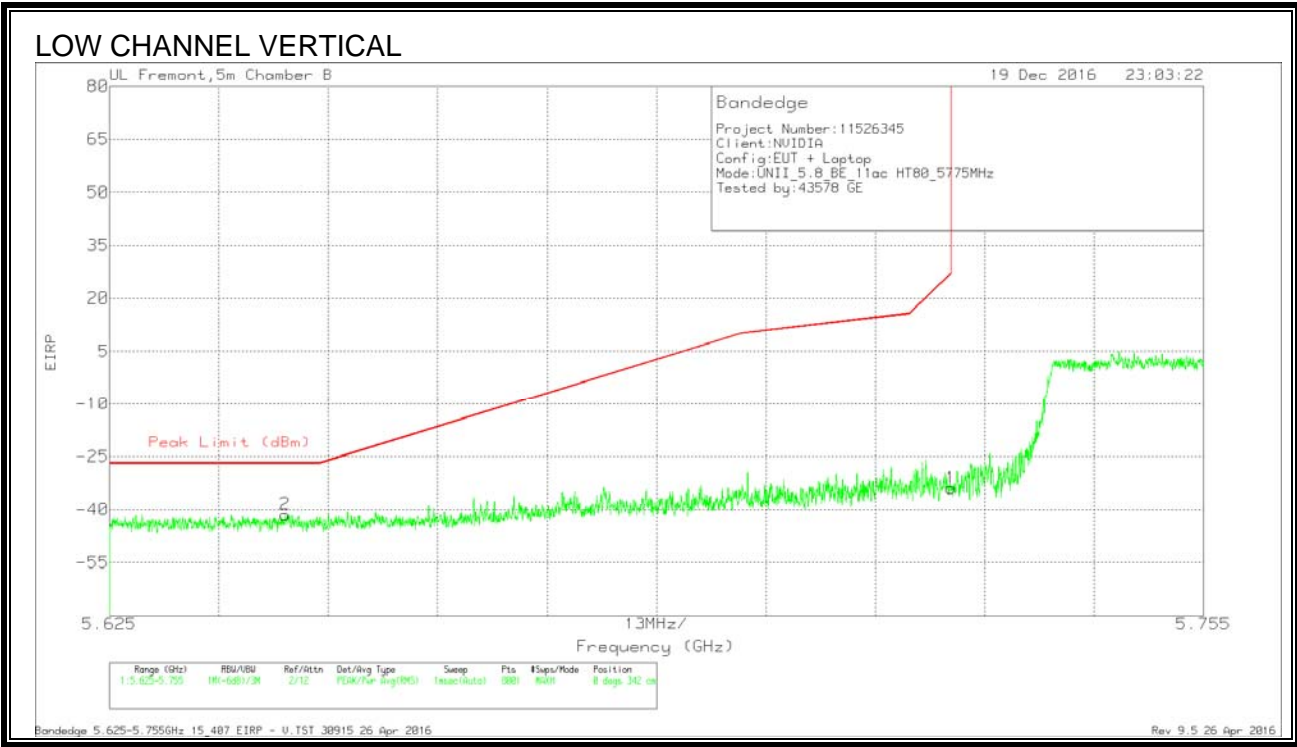
FCC



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.633	-65.82	Pk	34.6	-21.5	11.8	-40.92	-27	-13.92	107	335	H
1	5.725	-67.79	Pk	34.9	-21.7	11.8	-42.79	26.97	-69.76	107	335	H

Pk - Peak detector

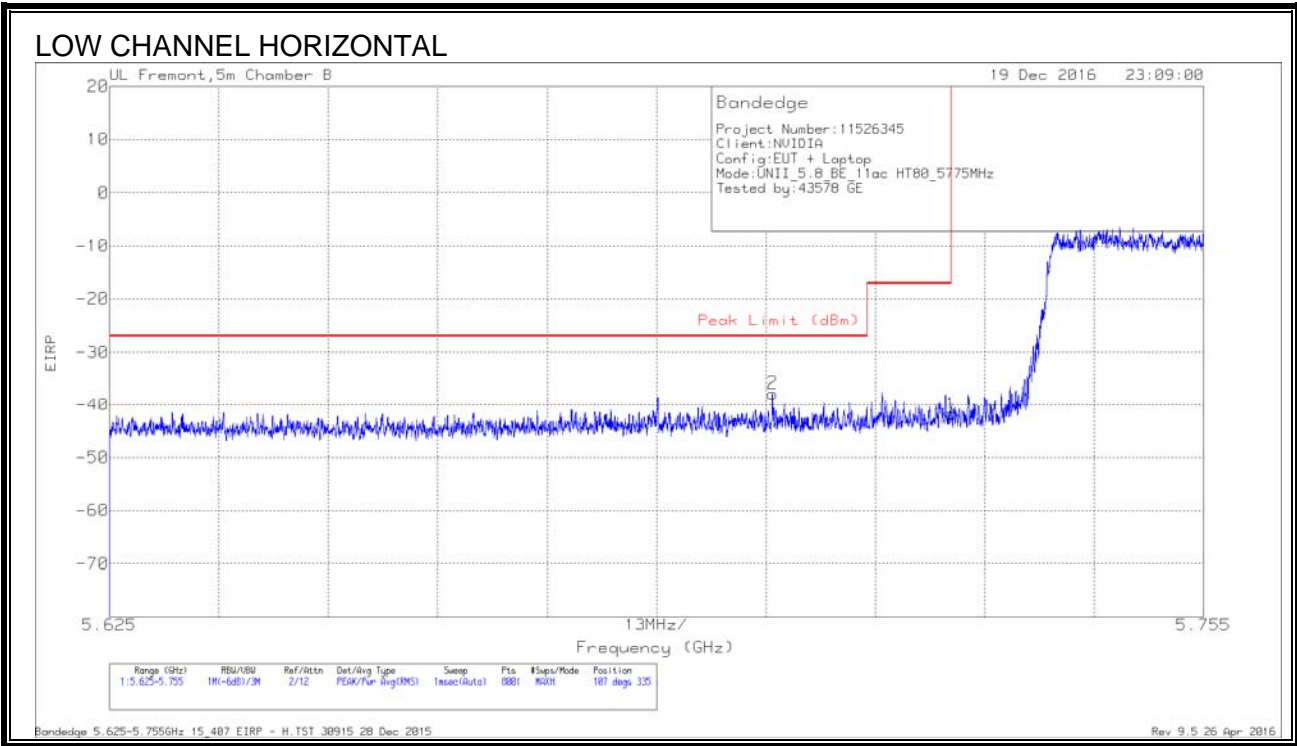


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.646	-66.44	Pk	34.7	-21.5	11.8	-41.44	-27	-14.44	0	342	V
1	5.725	-59.06	Pk	34.9	-21.7	11.8	-34.06	26.97	-61.03	0	342	V

Pk - Peak detector

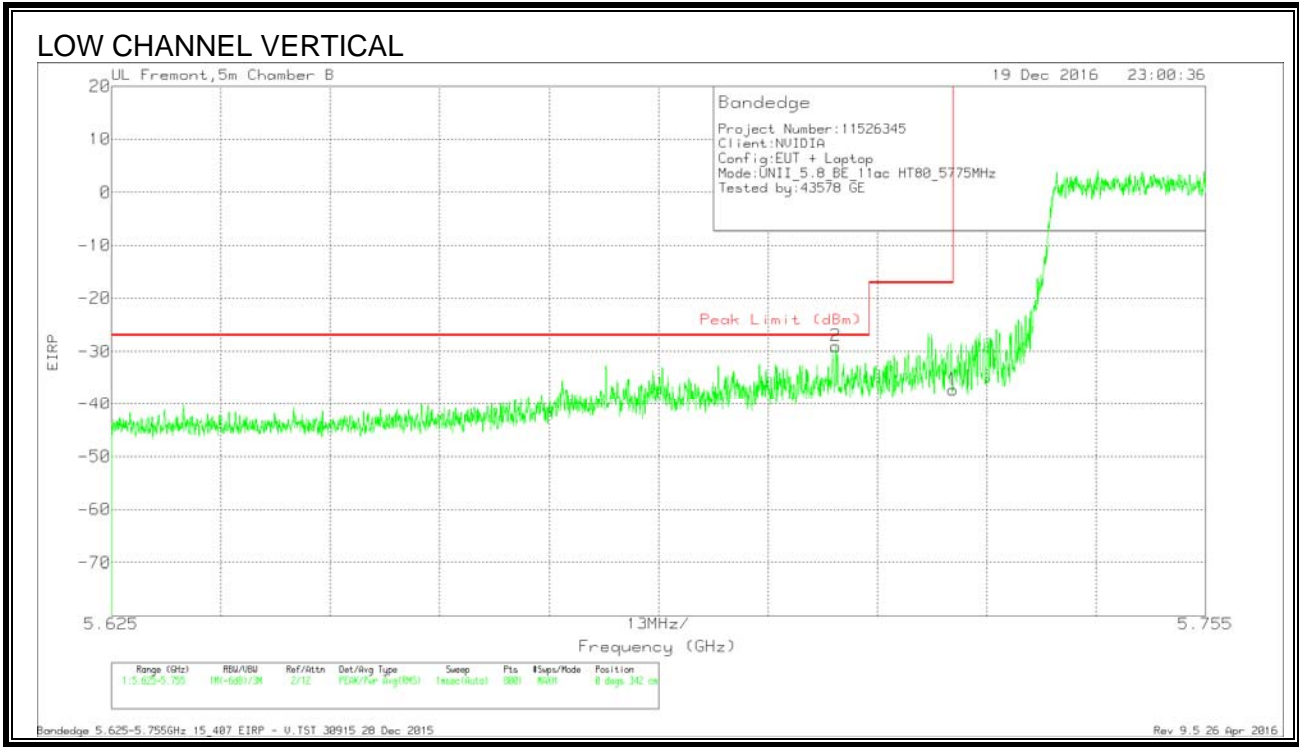
IC



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.704	-62.75	Pk	34.9	-21.7	11.8	-37.75	-27	-10.75	107	335	H
1	5.725	-66.78	Pk	34.9	-21.7	11.8	-41.78	-17	-24.78	107	335	H

Pk - Peak detector



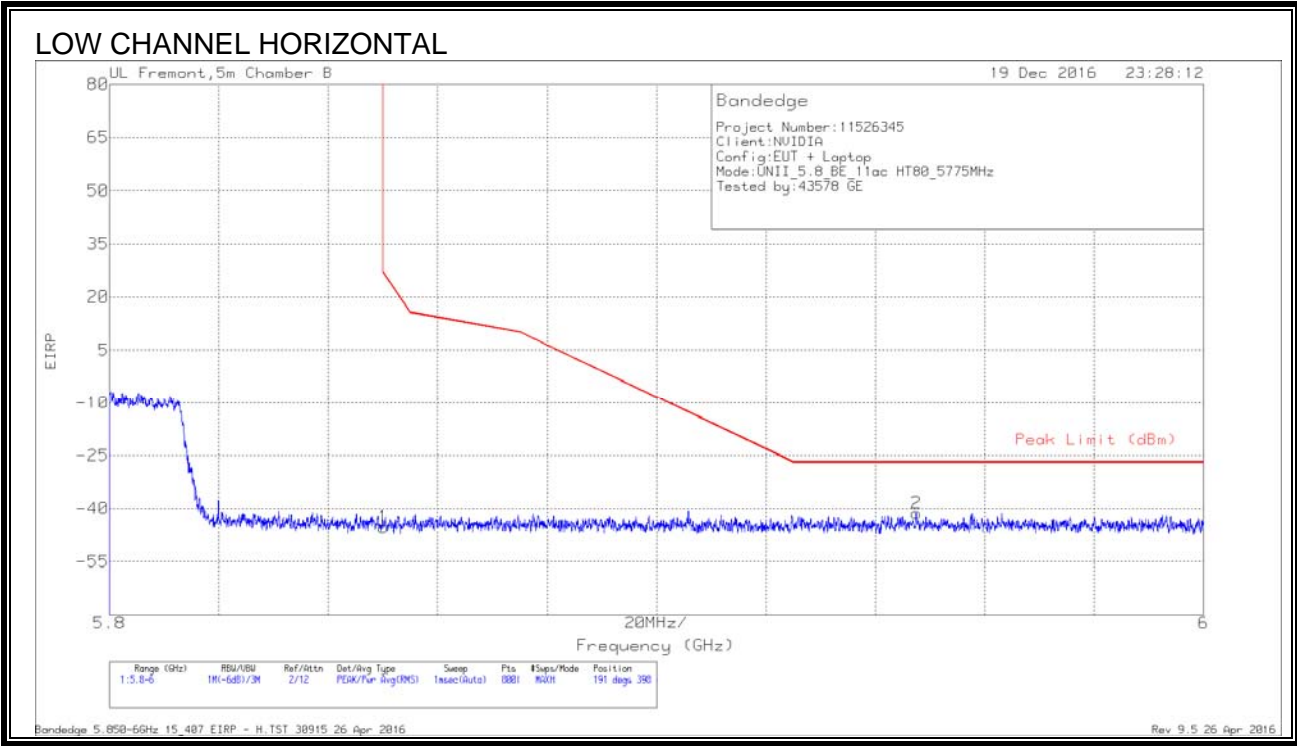
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.711	-54.13	Pk	34.9	-21.5	11.8	-28.93	-27	-1.93	0	342	V
1	5.725	-62.2	Pk	34.9	-21.7	11.8	-37.2	-17	-20.2	0	342	V

Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)

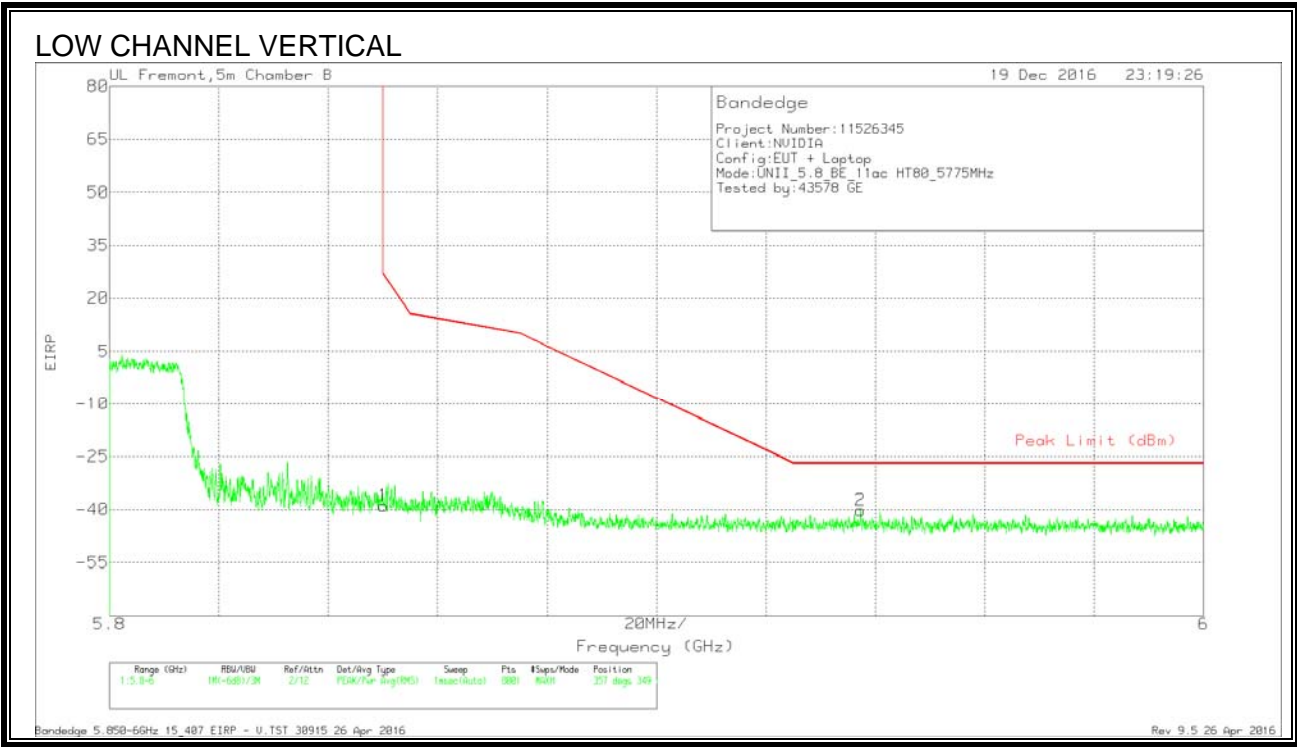
FCC



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-70.61	Pk	35.2	-21.6	11.8	-45.21	26.94	-72.15	191	398	H
2	5.947	-67.09	Pk	35.2	-21.3	11.8	-41.39	-27	-14.39	191	398	H

Pk - Peak detector

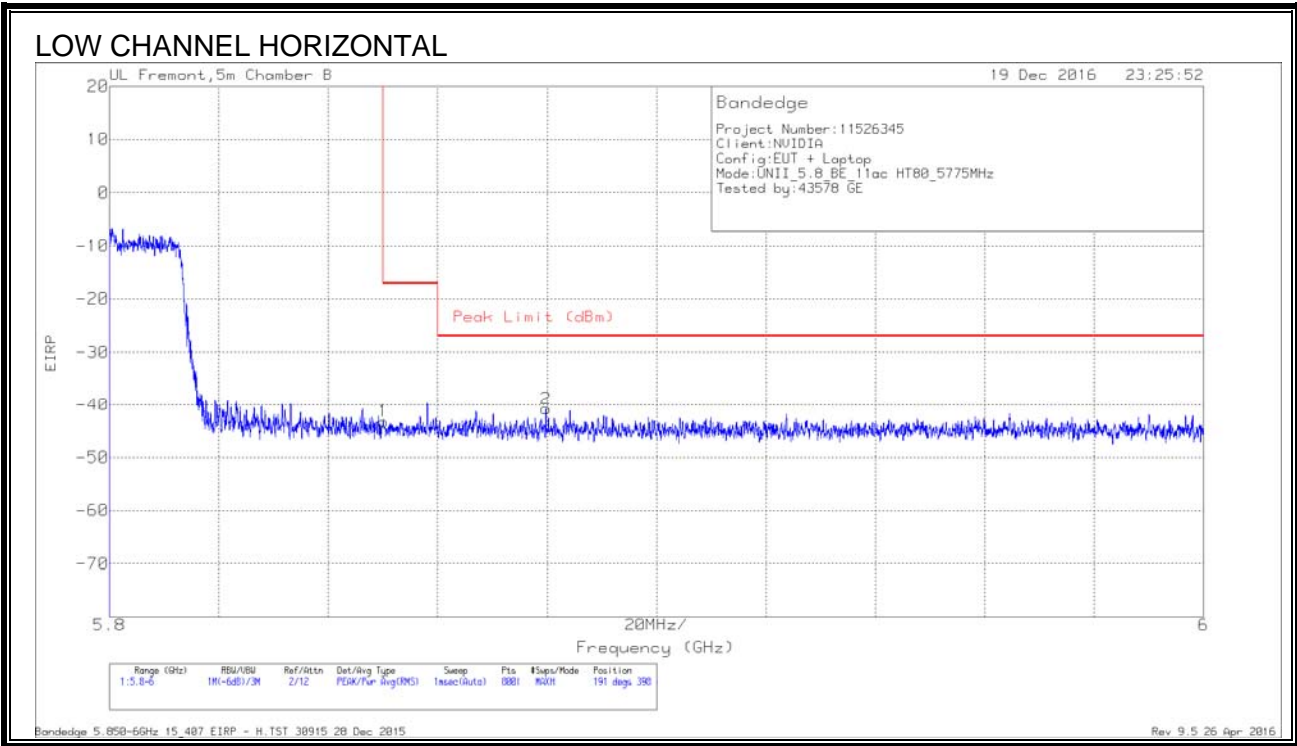


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-64.29	Pk	35.2	-21.6	11.8	-38.89	26.94	-65.83	357	349	V
2	5.937	-66.2	Pk	35.3	-21.2	11.8	-40.3	-27	-13.3	357	349	V

Pk - Peak detector

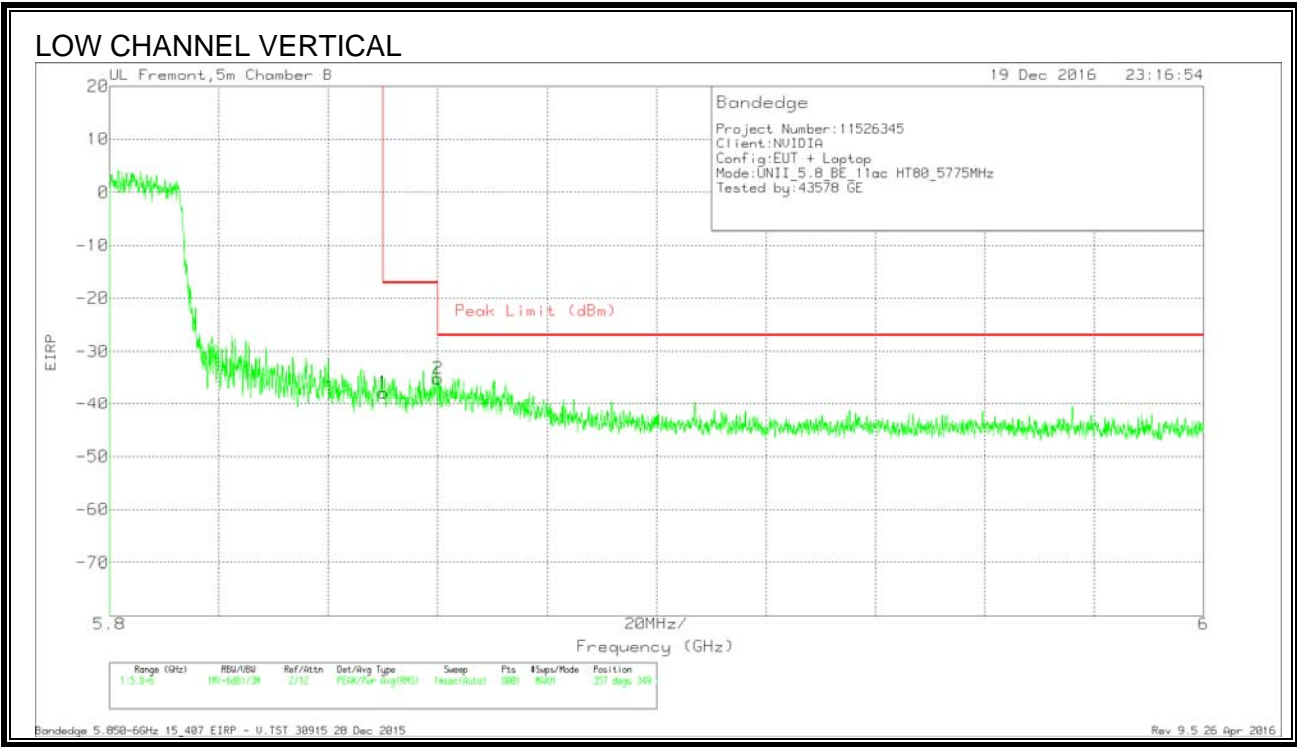
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Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-68.56	Pk	35.2	-21.6	11.8	-43.16	-17	-26.16	191	398	H
2	5.88	-66.32	Pk	35.2	-21.4	11.8	-40.72	-27	-13.72	191	398	H

Pk - Peak detector

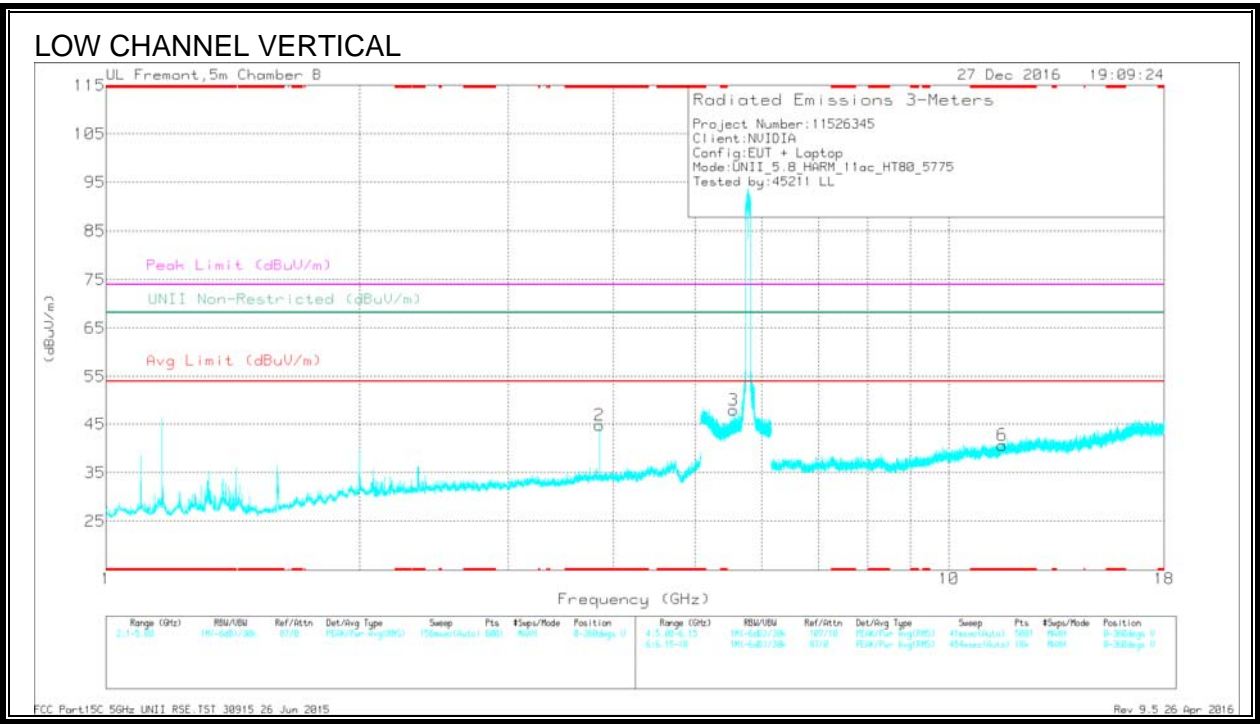
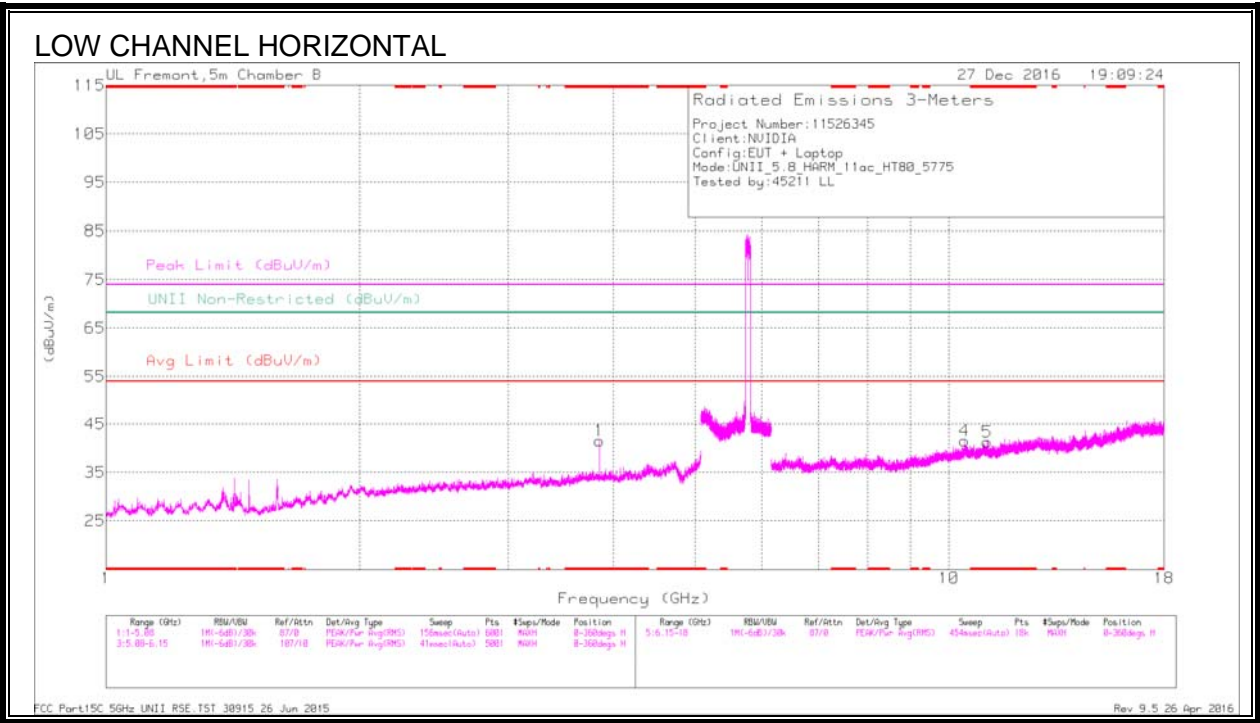


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-63.2	Pk	35.2	-21.6	11.8	-37.8	-17	-20.8	357	349	V
2	5.86	-60.52	Pk	35.2	-21.6	11.8	-35.12	-27	-8.12	357	349	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS



Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Ch/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.85	45.29	PK-U	33.4	-33.2	0	45.49	-	-	74	-28.51	-	-	29	116	H
	* 3.85	39.89	ADR	33.4	-33.2	1.84	41.93	54	-12.07	-	-	-	-	29	116	H
2	* 3.85	48.02	PK-U	33.4	-33.2	0	48.22	-	-	74	-25.78	-	-	132	216	V
	* 3.85	43.88	ADR	33.4	-33.2	1.84	45.92	54	-8.08	-	-	-	-	132	216	V
5	* 11.113	33.45	PK-U	37.9	-26.1	0	45.25	-	-	74	-28.75	-	-	5	213	H
	* 11.094	22.76	ADR	37.9	-26.1	1.84	36.4	54	-17.6	-	-	-	-	5	213	H
6	* 11.558	33.34	PK-U	38.4	-25	0	46.74	-	-	74	-27.26	-	-	291	224	V
	* 11.567	21.89	ADR	38.4	-25	1.84	37.13	54	-16.87	-	-	-	-	291	224	V
3	5.553	39.32	PK-U	34.5	-21.1	0	52.72	-	-	-	-	68.2	-15.48	45	328	V
4	10.442	33.67	PK-U	37.7	-25.5	0	45.87	-	-	-	-	68.2	-22.33	30	275	H

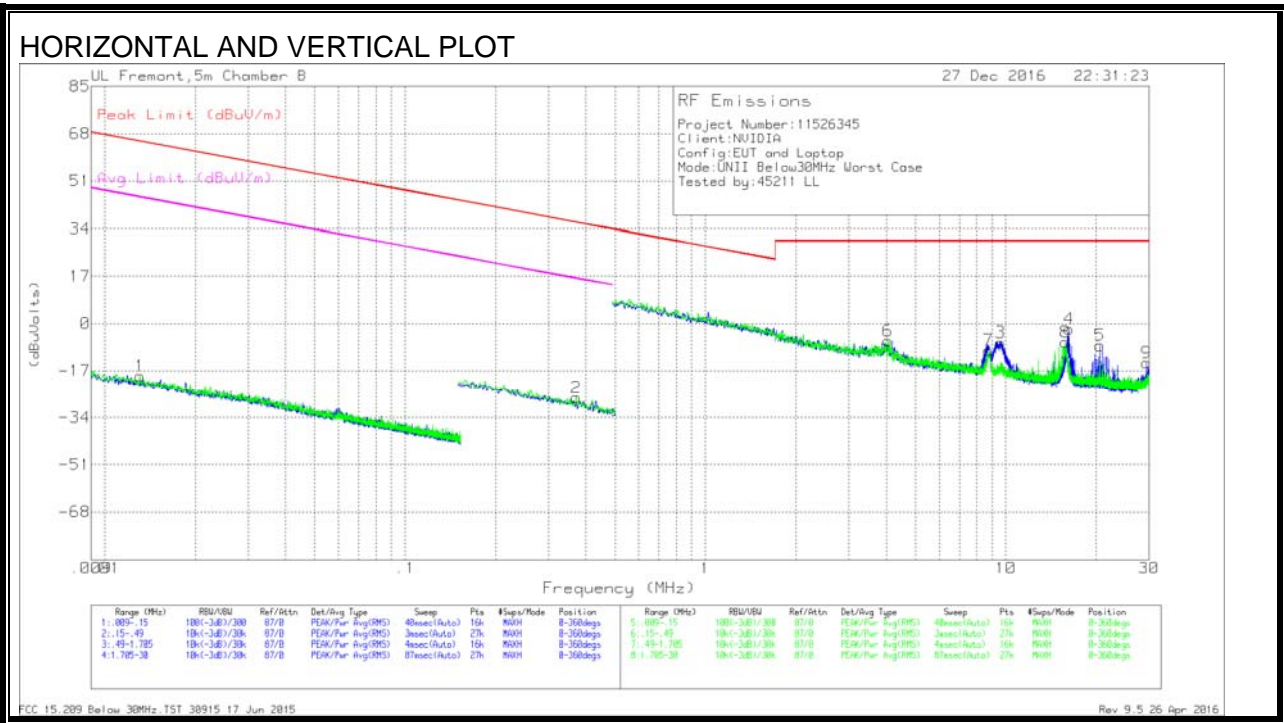
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.1. **WORST-CASE BELOW 30 MHz**

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION)



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.01308	43.03	Pk	16.7	1.4	-80	-18.87	65.27	-84.14	45.27	-64.14	0-360
2	.37129	41.01	Pk	10.7	1.5	-80	-26.79	36.21	-63	16.21	-43	0-360

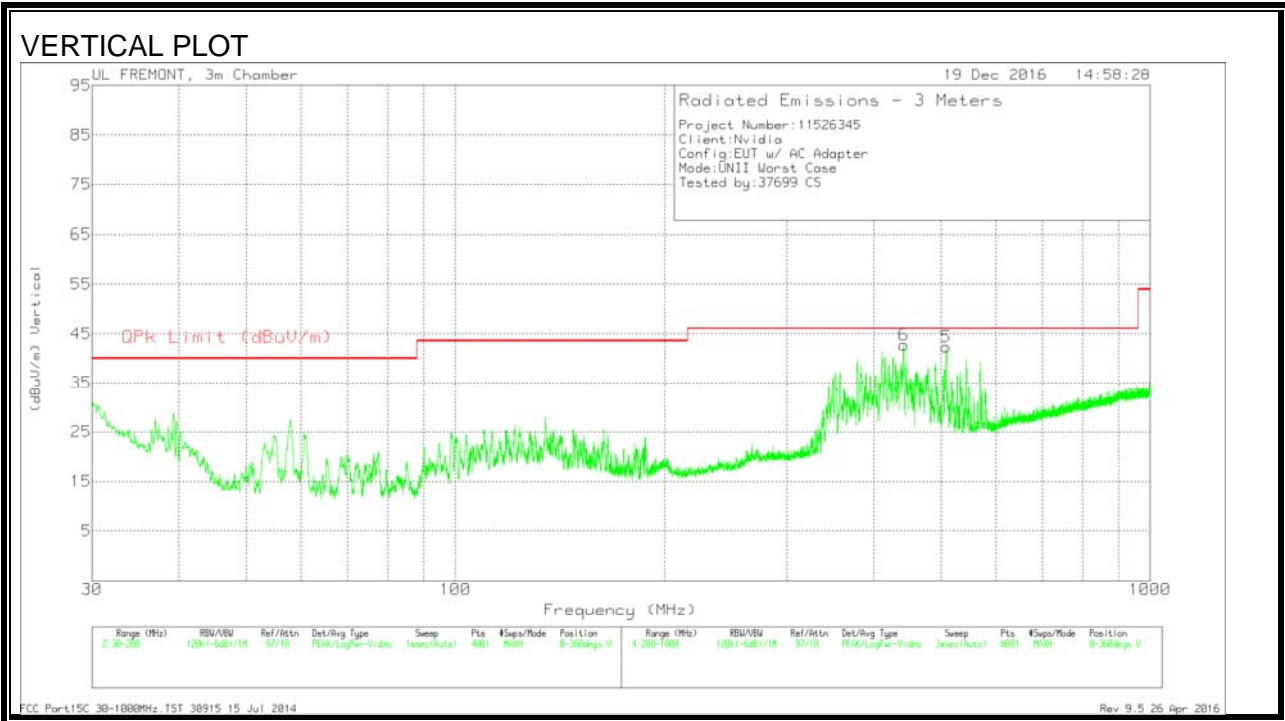
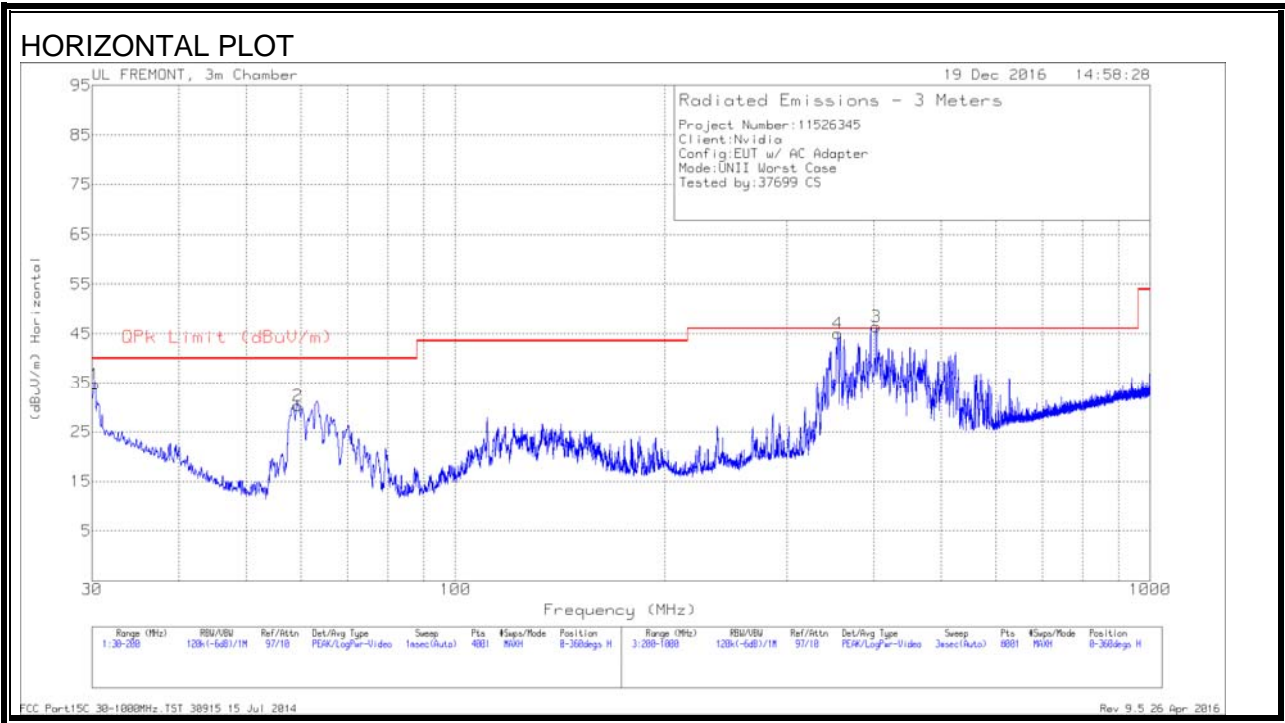
Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
6	4.05514	21.31	Pk	10.9	1.5	-40	-6.29	29.54	-35.83	-	-	0-360
7	8.75699	18.08	Pk	10.8	1.5	-40	-9.62	29.54	-39.16	-	-	0-360
3	9.59539	20.93	Pk	10.8	1.5	-40	-6.77	29.54	-36.31	-	-	0-360
8	15.75868	21.31	Pk	10.5	1.6	-40	-6.59	29.54	-36.13	-	-	0-360
4	16.2329	25.91	Pk	10.5	1.6	-40	-1.99	29.54	-31.53	-	-	0-360
5	20.54228	20.41	Pk	10	1.7	-40	-7.89	29.54	-37.43	-	-	0-360
9	29.3874	16.03	Pk	8.1	1.7	-40	-14.17	29.54	-43.71	-	-	0-360

Pk - Peak detector

11.2. WORST-CASE BELOW 1 GHz

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



DATA

Radiated Emissions

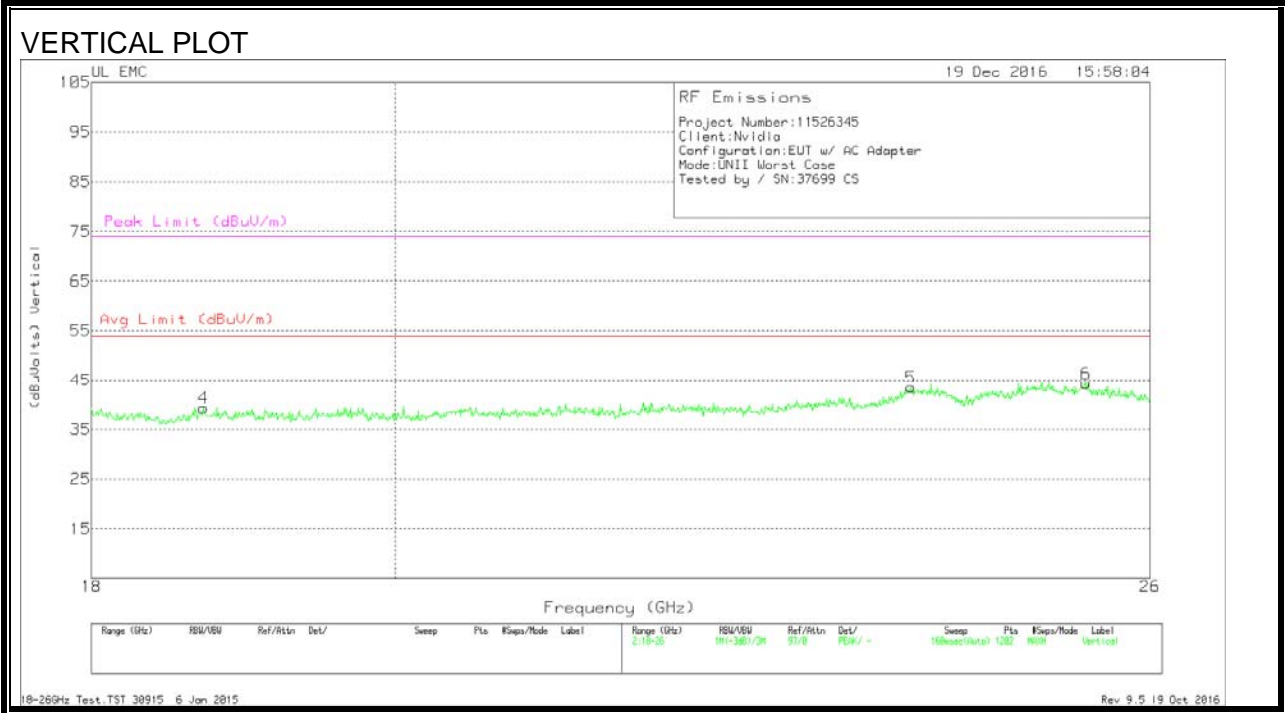
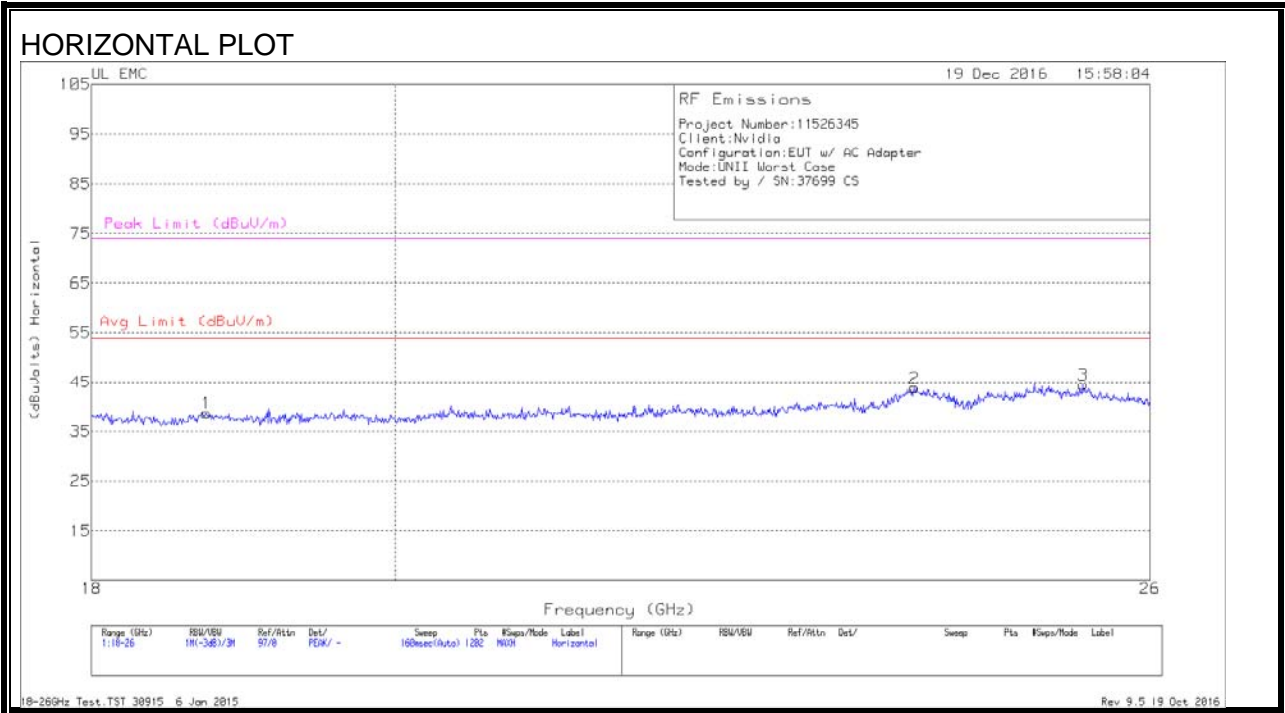
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T122 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.1623	23.72	Qp	25.2	-27.3	21.62	40	-18.38	36	152	H
4	355.555	39.43	Qp	18.4	-24.3	33.53	46.02	-12.49	153	102	H
3	400.925	37.75	Qp	19.5	-24.5	32.75	46.02	-13.27	157	241	H
6	442.53	34.11	Qp	20.7	-24.7	30.11	46.02	-15.91	204	139	V
5	509.37	29.79	Qp	21.7	-24.6	26.89	46.02	-19.13	179	133	V
2	59.3675	45.8	Pk	11.3	-26.8	30.3	40	-9.7	0-360	200	H

Qp - Quasi-Peak detector

Pk - Peak detector

11.3. **WORST-CASE 18 to 26 GHz**

SPURIOUS EMISSIONS 18 TO 26 GHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)



DATA

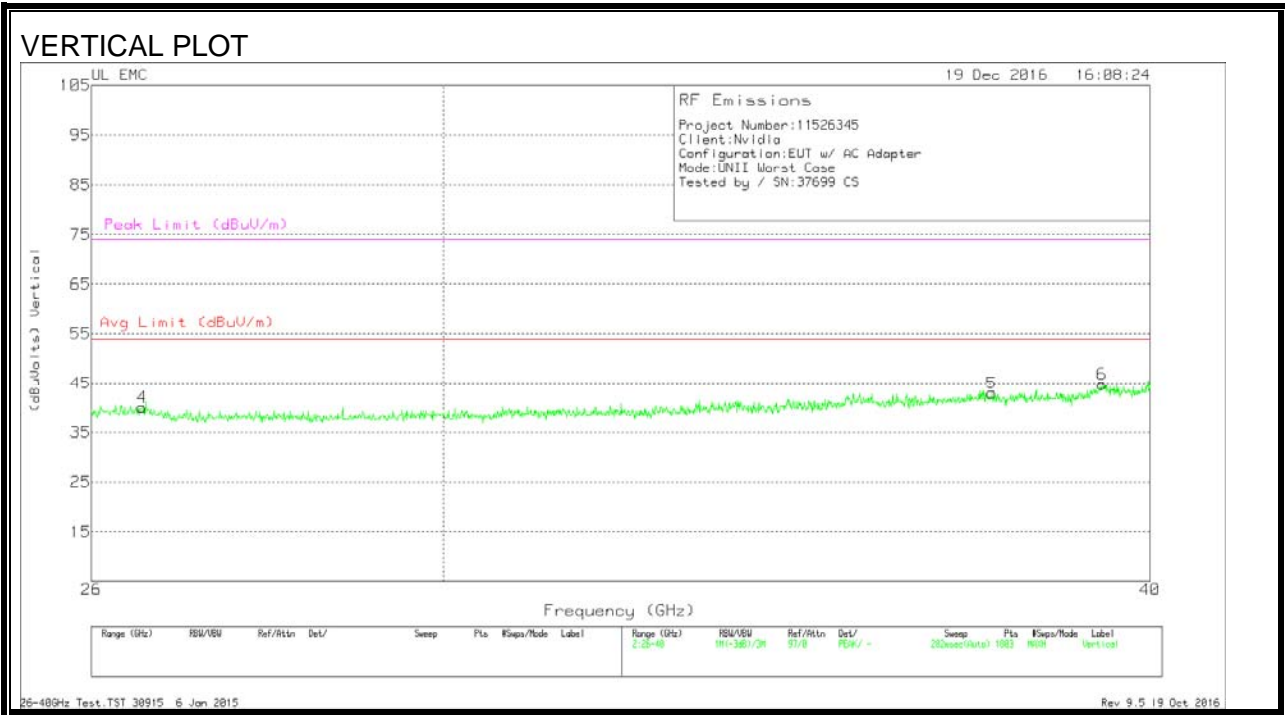
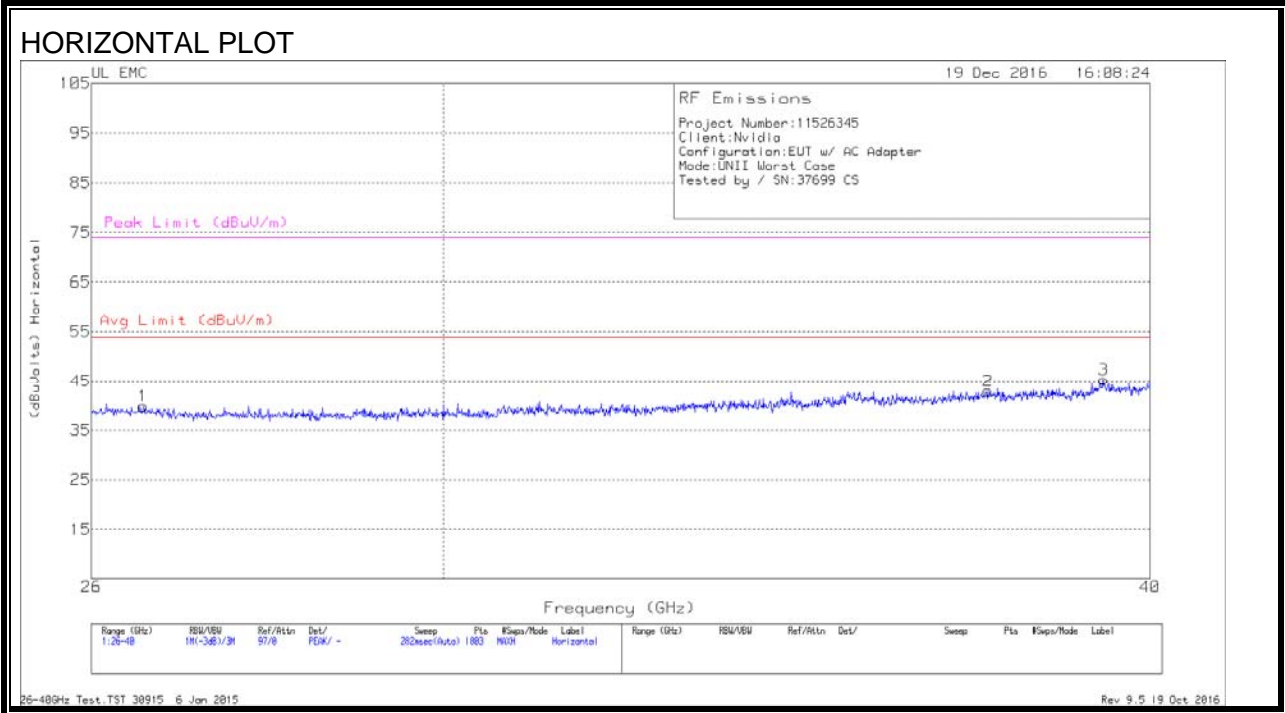
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T449 (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	18.733	40.47	Pk	32.4	-24.7	-9.5	38.67	54	-15.33	74	-35.33
2	23.955	43.63	Pk	34	-24.3	-9.5	43.83	54	-10.17	74	-30.17
3	25.401	44.1	Pk	34.3	-24.4	-9.5	44.5	54	-9.5	74	-29.5
4	18.713	40.93	Pk	32.4	-24.5	-9.5	39.33	54	-14.67	74	-34.67
5	23.928	43	Pk	34	-24	-9.5	43.5	54	-10.5	74	-30.5
6	25.427	43.73	Pk	34.4	-24.3	-9.5	44.33	54	-9.67	74	-29.67

Pk - Peak detector

11.4. WORST-CASE 26 to 40 GHz

SPURIOUS EMISSIONS 26 TO 40 GHz (WORST-CASE CONFIGURATION)



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T90 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	26.552	44.93	Pk	35.5	-31.1	-9.5	39.83	54	-14.17	74	-34.17
2	37.444	49.6	Pk	37.3	-34.4	-9.5	43	54	-11	74	-31
3	39.246	48.63	Pk	38.6	-32.4	-9.5	45.33	54	-8.67	74	-28.67
4	26.54	45.2	Pk	35.5	-31.2	-9.5	40	54	-14	74	-34
5	37.506	49.4	Pk	37.3	-34.2	-9.5	43	54	-11	74	-31
6	39.223	48.23	Pk	38.5	-32.4	-9.5	44.83	54	-9.17	74	-29.17

Pk - Peak detector

12. 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.

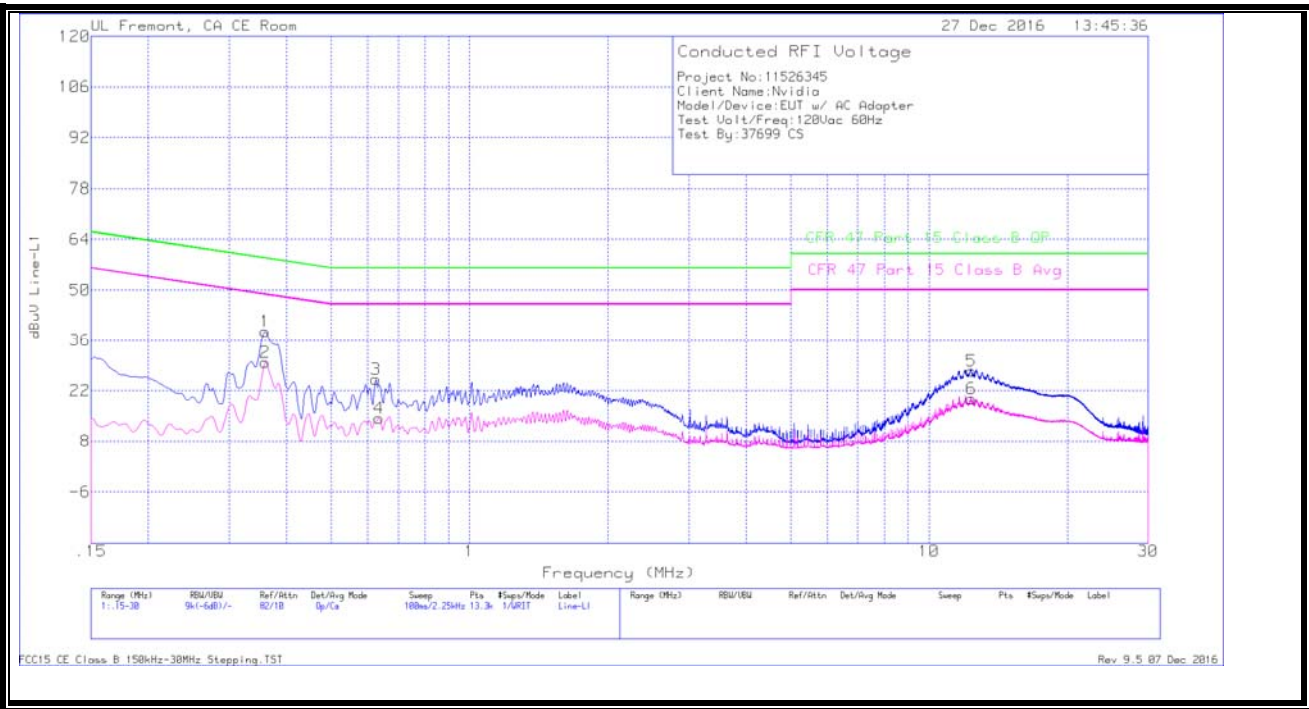
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

12.1. EUT POWERED BY AC/DC ADAPTER

LINE 1 RESULTS

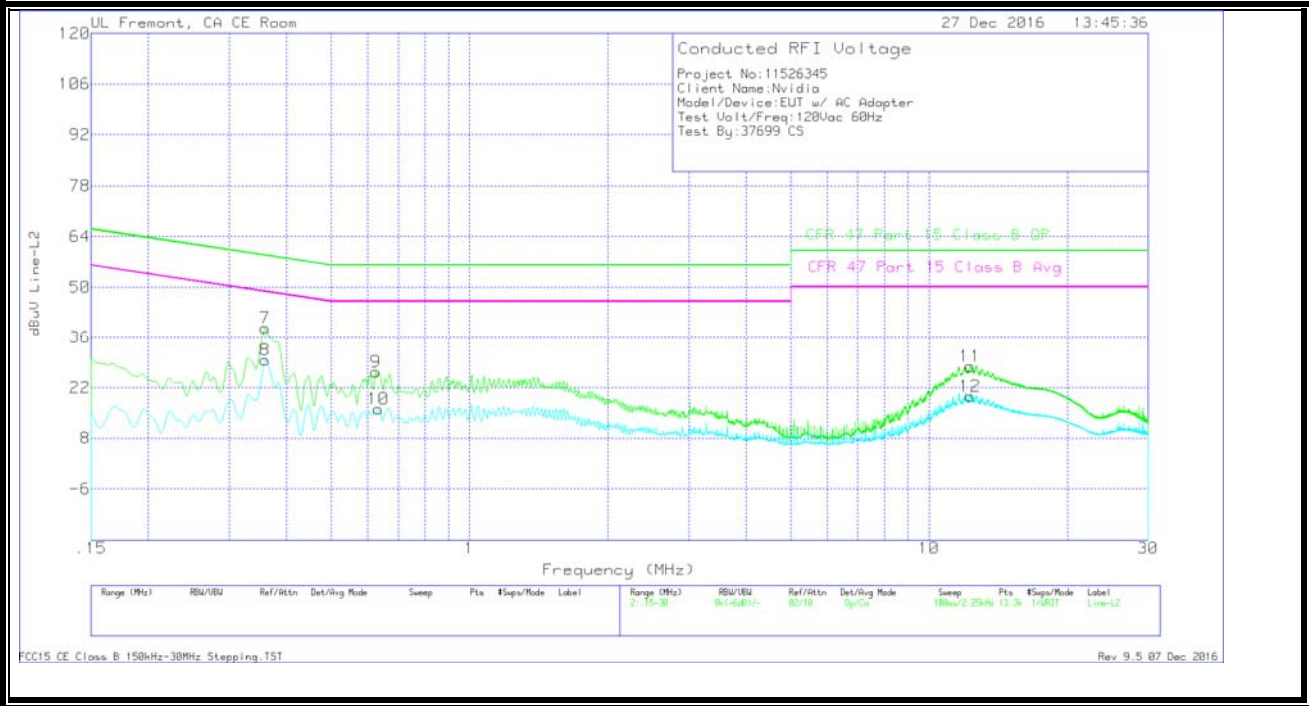


WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables 1&3	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	.35925	28.35	Qp	0	0	10.1	38.45	58.75	-20.3	-	-
2	.35925	19.76	Ca	0	0	10.1	29.86	-	-	48.75	-18.89
3	.62475	14.97	Qp	0	0	10.1	25.07	56	-30.93	-	-
4	.636	4.24	Ca	0	0	10.1	14.34	-	-	46	-31.66
5	12.35625	16.95	Qp	.1	.2	10.2	27.45	60	-32.55	-	-
6	12.36075	9.21	Ca	.1	.2	10.2	19.71	-	-	50	-30.29

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables 2&3	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)
7	.35925	28.57	Qp	0	0	10.1	38.67	58.75	-20.08	-	-
8	.35925	19.55	Ca	0	0	10.1	29.65	-	-	48.75	-19.1
9	.62475	16.24	Qp	0	0	10.1	26.34	56	-29.66	-	-
10	.63375	5.97	Ca	0	0	10.1	16.07	-	-	46	-29.93
11	12.3	17.34	Qp	.1	.2	10.2	27.84	60	-32.16	-	-
12	12.3	9	Ca	.1	.2	10.2	19.5	-	-	50	-30.5

Qp - Quasi-Peak detector
Ca - CISPR average detection