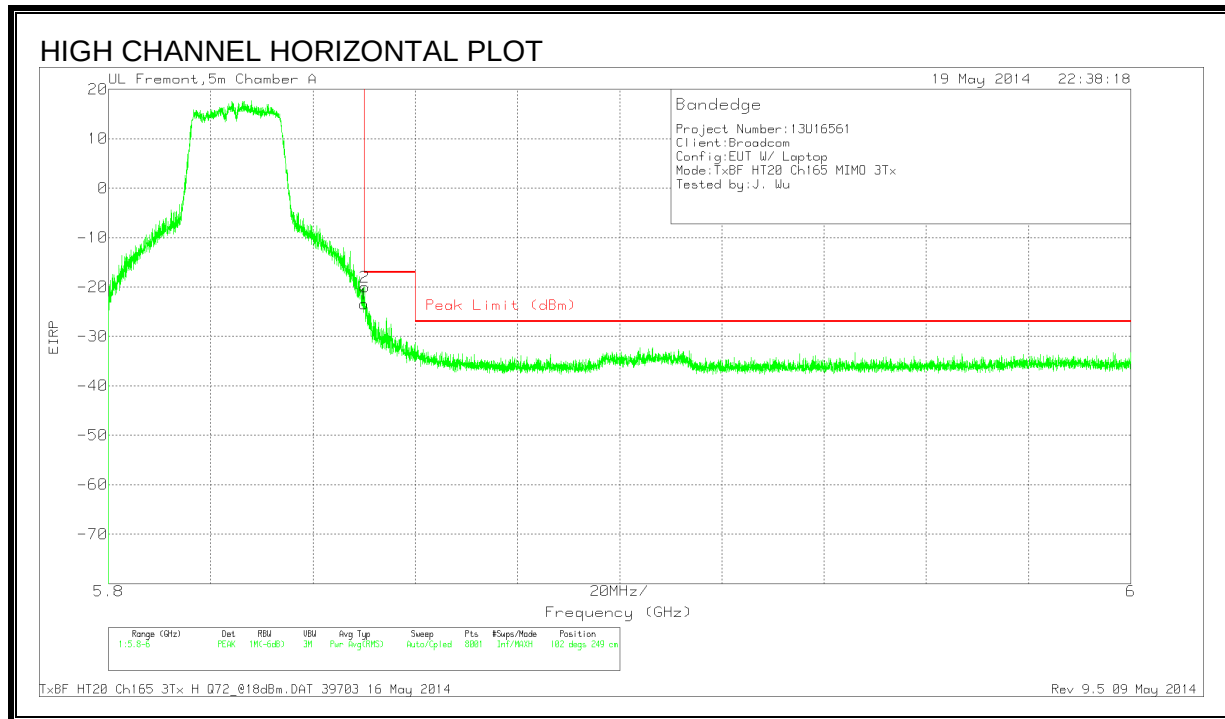
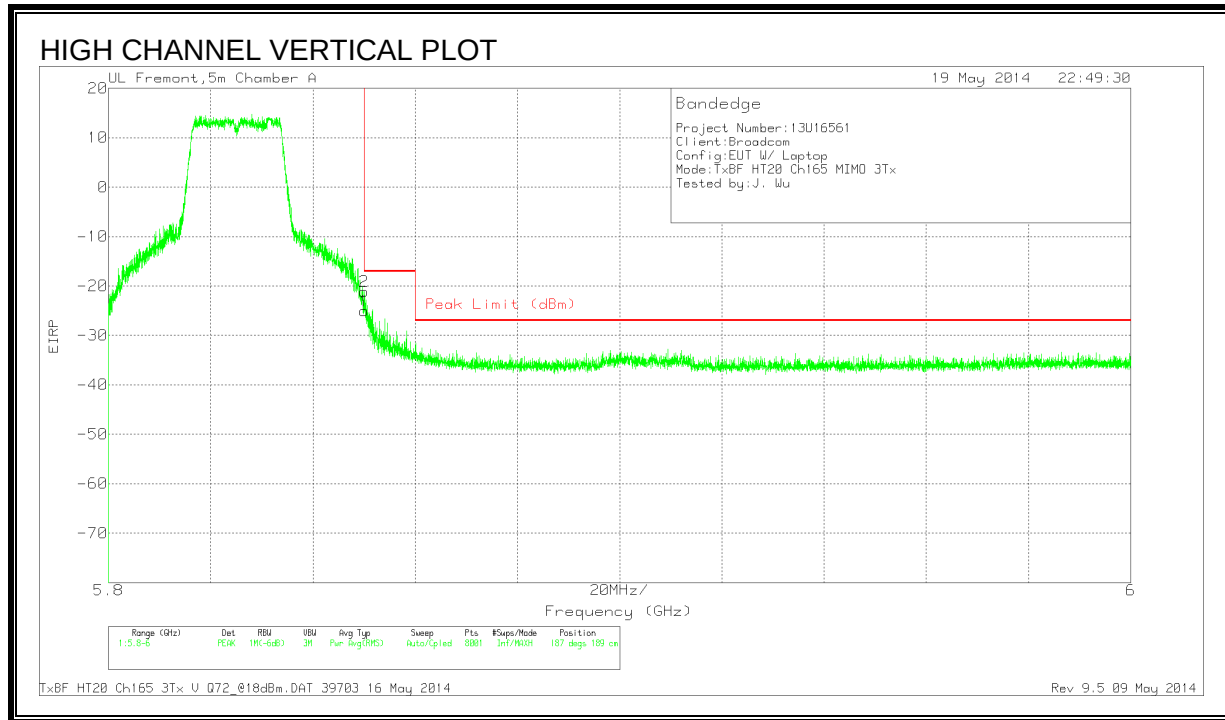


RESTRICTED BANDEDGE (HIGH CHANNEL)



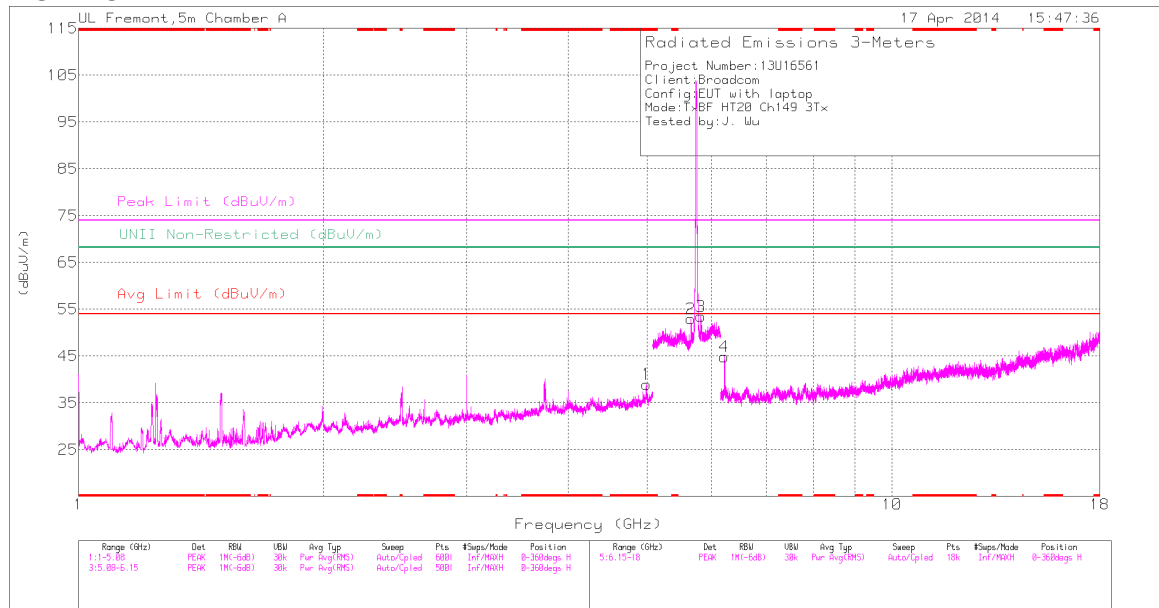
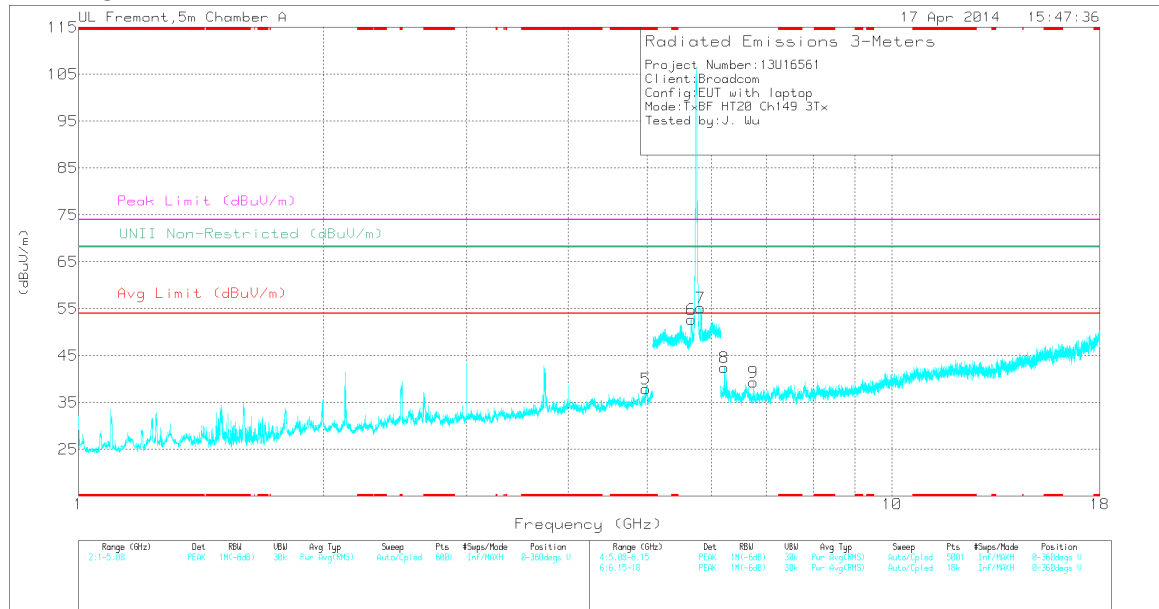
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-85.84	PK	34.9	9.7	11.8	6	-23.44	-17	-6.44	102	249	H
2	5.85	-82.45	PK	34.9	9.7	11.8	6	-20.05	-17	-3.05	102	249	H

PK - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-87.42	PK	34.9	9.7	11.8	6	-25.02	-17	-8.02	187	189	V
2	5.85	-83.47	PK	34.9	9.7	11.8	6	-21.07	-17	-4.07	187	189	V

PK - Peak detector

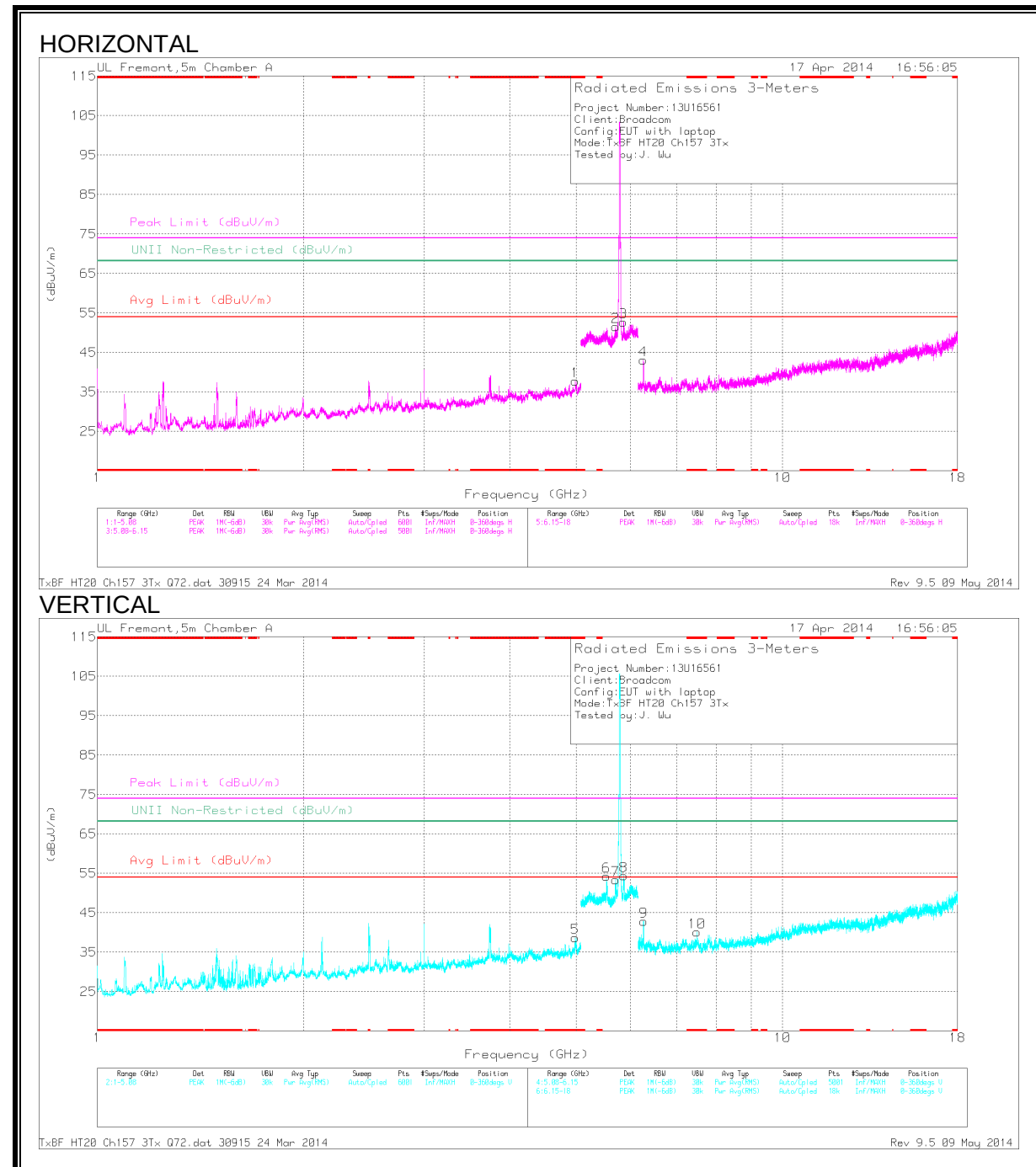
HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL****HORIZONTAL****VERTICAL**

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.985	40.37	PK1	33.9	-28.6	0	45.67	-	-	74	-28.33	-	-	241	305	H
	* 4.994	28.71	AD1	33.9	-28.6	3.5	37.51	54	-16.49	-	-	-	-	241	305	H
5	* 4.992	44.98	PK1	33.9	-28.6	0	50.28	-	-	74	-23.72	-	-	71	200	V
	* 4.995	29.49	AD1	33.9	-28.6	3.5	38.29	54	-15.71	-	-	-	-	71	200	V
2	5.661	48.04	PK1	34.5	-19.9	0	62.64	-	-	-	-	68.2	-5.56	259	278	H
6	5.659	46.41	PK1	34.5	-19.9	0	61.01	-	-	-	-	68.2	-7.19	107	187	V
3	5.826	48.71	PK1	34.8	-19.5	0	64.01	-	-	-	-	68.2	-4.19	256	288	H
7	5.823	47.21	PK1	34.8	-19.4	0	62.61	-	-	-	-	68.2	-5.59	226	206	V
4	6.222	46.07	PK1	35.4	-28.3	0	53.17	-	-	-	-	68.2	-15.03	253	201	H
8	6.226	45.27	PK1	35.4	-28.5	0	52.17	-	-	-	-	68.2	-16.03	196	210	V
9	6.75	37.59	PK1	35.4	-27.9	0	45.09	-	-	-	-	68.2	-23.11	244	104	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK – Peak detector

MIDDLE CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.984	40.26	PK1	33.9	-28.6	0	45.56	-	-	74	-28.44	-	-	46	330	H
	* 4.988	28.54	AD1	33.9	-28.6	3.5	37.34	54	-16.66	-	-	-	-	46	330	H
5	* 4.986	42.68	PK1	33.9	-28.6	0	47.98	-	-	74	-26.02	-	-	255	119	V
	* 4.987	29.33	AD1	33.9	-28.6	3.5	38.13	54	-15.87	-	-	-	-	255	119	V
10	* 7.486	37.46	PK1	35.3	-25.6	0	47.16	-	-	74	-26.84	-	-	295	140	V
	* 7.5	27	AD1	35.3	-24.9	3.5	40.9	54	-13.1	-	-	-	-	289	114	V
6	5.536	44.16	PK1	34.4	-19.6	0	58.96	-	-	-	-	68.2	-9.24	114	203	V
7	**5.702	38.75	PK	34.5	-19.9	0	53.35	-	-	-	-	68.2	-14.85	0-360	201	V
2	**5.709	36.83	PK	34.5	-19.8	0	51.53	-	-	-	-	68.2	-16.67	0-360	200	H
3	**5.86	37.19	PK	34.9	-19.4	0	52.69	-	-	-	-	68.2	-15.51	0-360	200	H
8	**5.864	39.22	PK	34.9	-19.7	0	54.42	-	-	-	-	68.2	-13.78	0-360	201	V
4	6.222	46.07	PK1	35.4	-28.3	0	53.17	-	-	-	-	68.2	-15.03	253	201	H
9	6.226	45.27	PK1	35.4	-28.5	0	52.17	-	-	-	-	68.2	-16.03	196	210	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

** - indicates frequency in authorized band

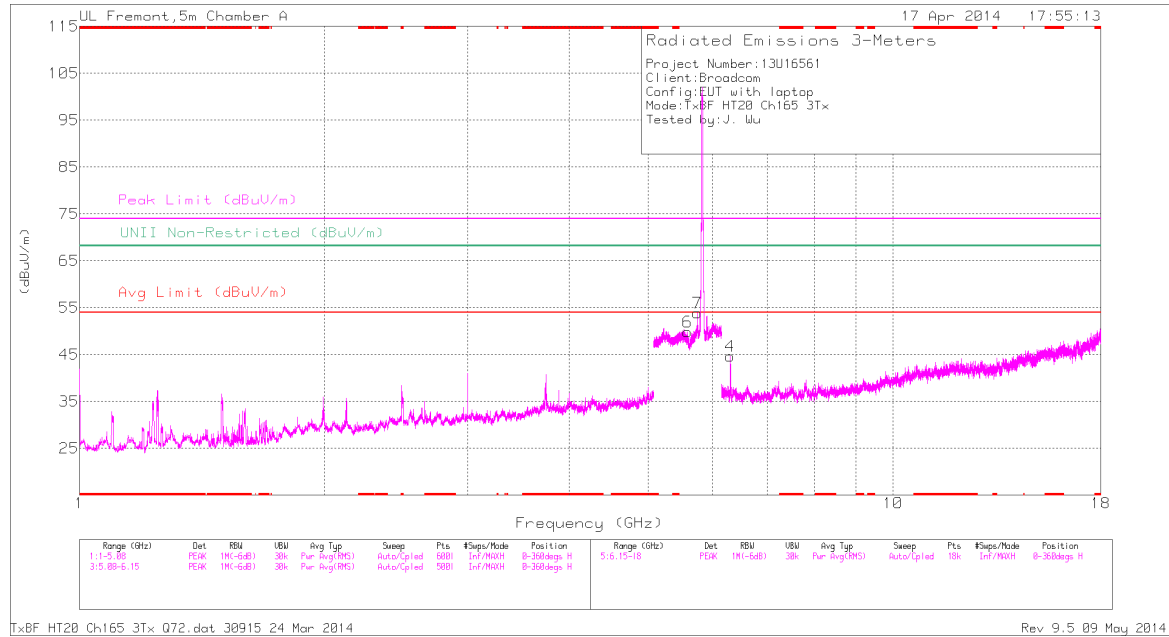
PK – Peak detector

PK1 - KDB789033 Method: Peak

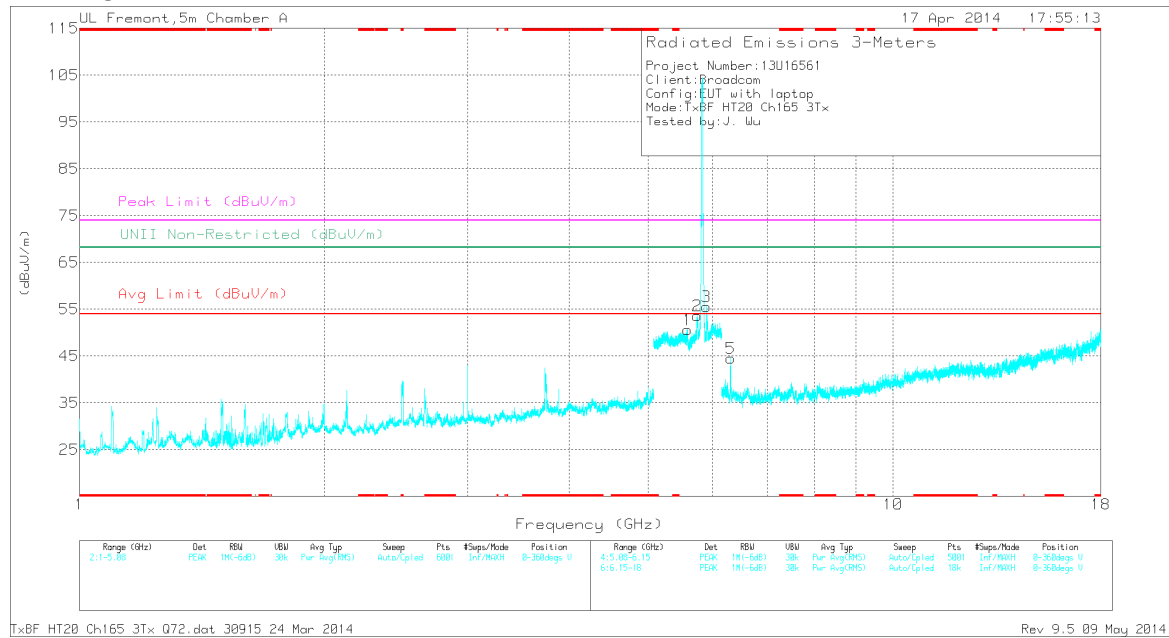
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL

HORIZONTAL



VERTICAL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.578	44.66	PK1	34.4	-20	0	59.06	-	-	-	-	68.2	-9.14	137	215	V
6	5.575	45.64	PK1	34.4	-20	0	60.04	-	-	-	-	68.2	-8.16	106	267	H
2	5.747	49.87	PK1	34.6	-19.5	0	64.97	-	-	-	-	68.2	-3.23	123	172	V
7	5.747	49.18	PK1	34.6	-19.5	0	64.28	-	-	-	-	68.2	-3.92	106	272	H
3	5.899	39.81	PK1	35	-19.3	0	55.51	-	-	-	-	68.2	-12.69	250	201	V
4	6.309	46.88	PK1	35.5	-28.7	0	53.68	-	-	-	-	68.2	-14.52	258	262	H
5	6.308	44.27	PK1	35.5	-28.7	0	51.07	-	-	-	-	68.2	-17.13	139	195	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

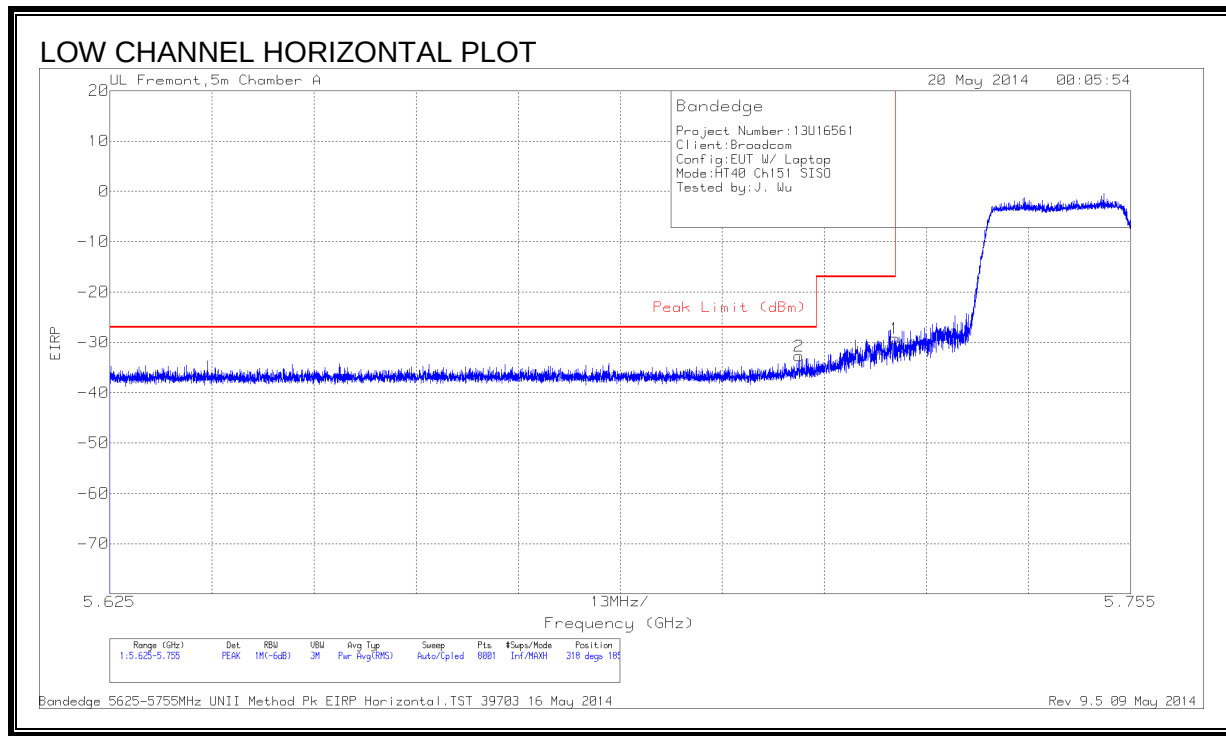
PK – Peak detector

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

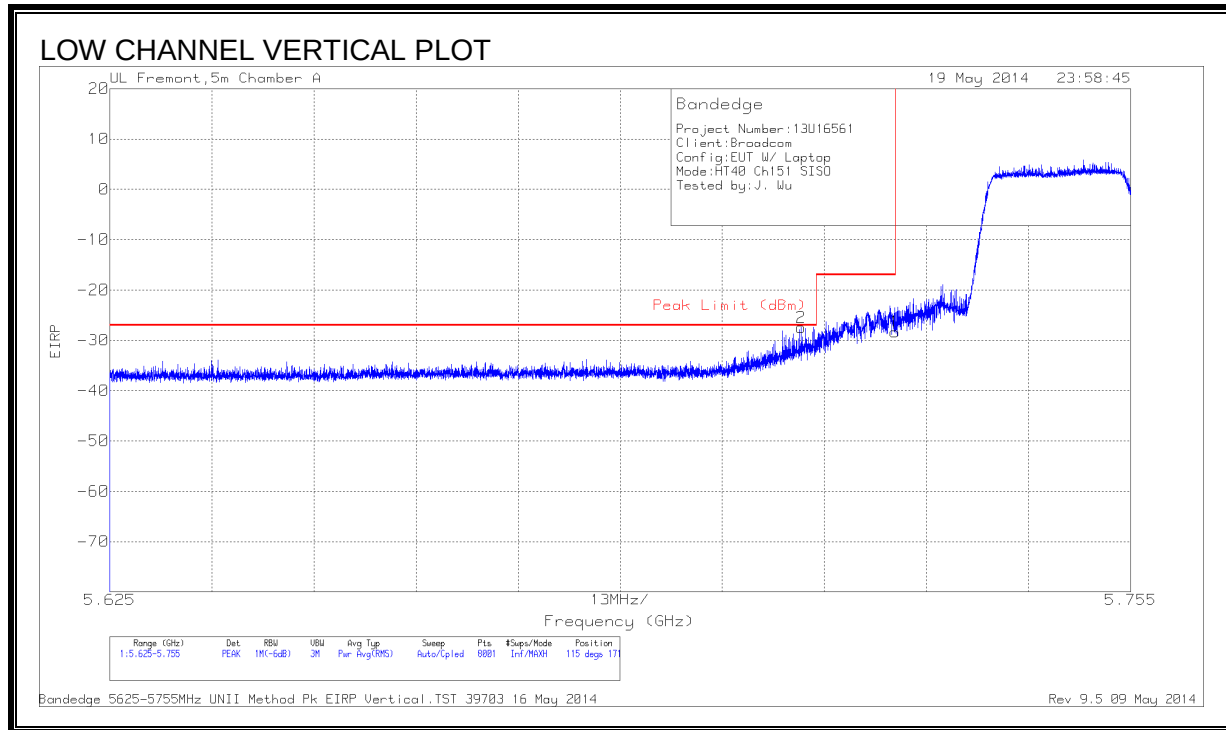
9.26 TX ABOVE 1 GHz 802.11n HT40 1TX MODE IN THE 5.8 GHz BAND

RESTRICTED BANDEGE (LOW CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.713	-94.54	PK	34.5	9.5	11.8	6	-32.74	-27	-5.74	318	185	H
1	5.725	-91.25	PK	34.6	9.6	11.8	6	-29.25	-17	-12.25	318	185	H

PK - Peak detector

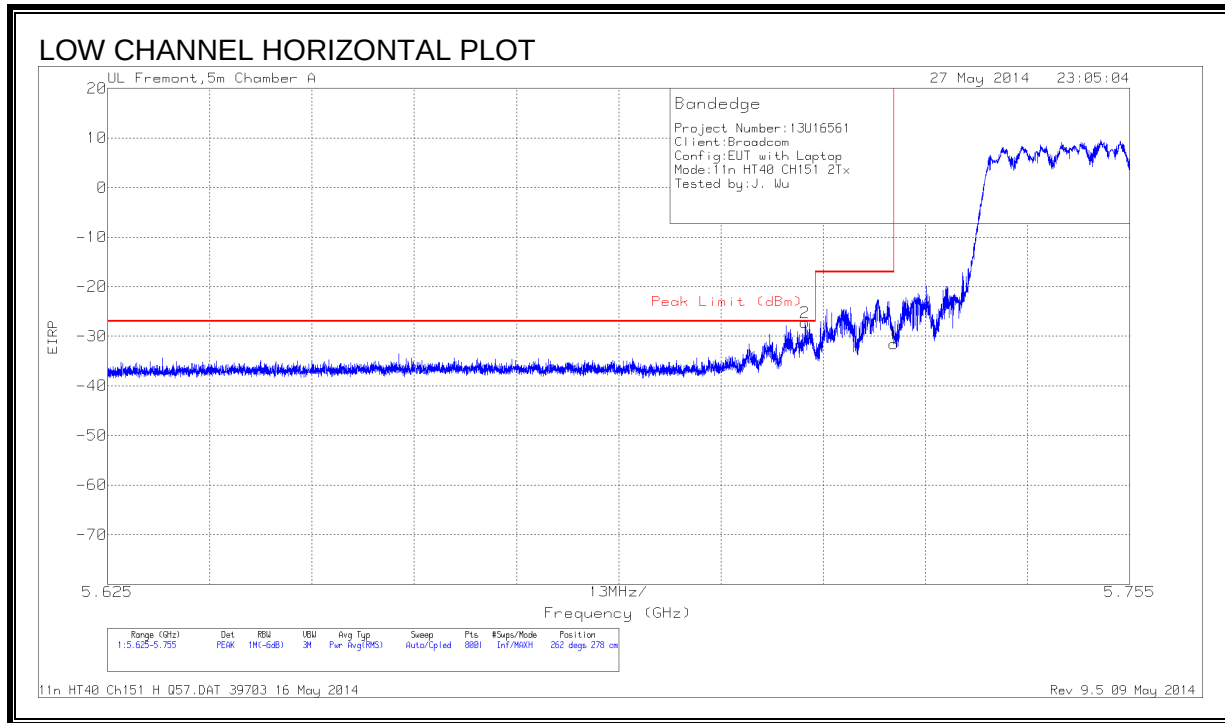


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.713	-89.24	PK	34.5	9.5	11.8	6	-27.44	-27	-44	115	171	V
1	5.725	-90.33	PK	34.6	9.6	11.8	6	-28.33	-17	-11.33	115	171	V

PK - Peak detector

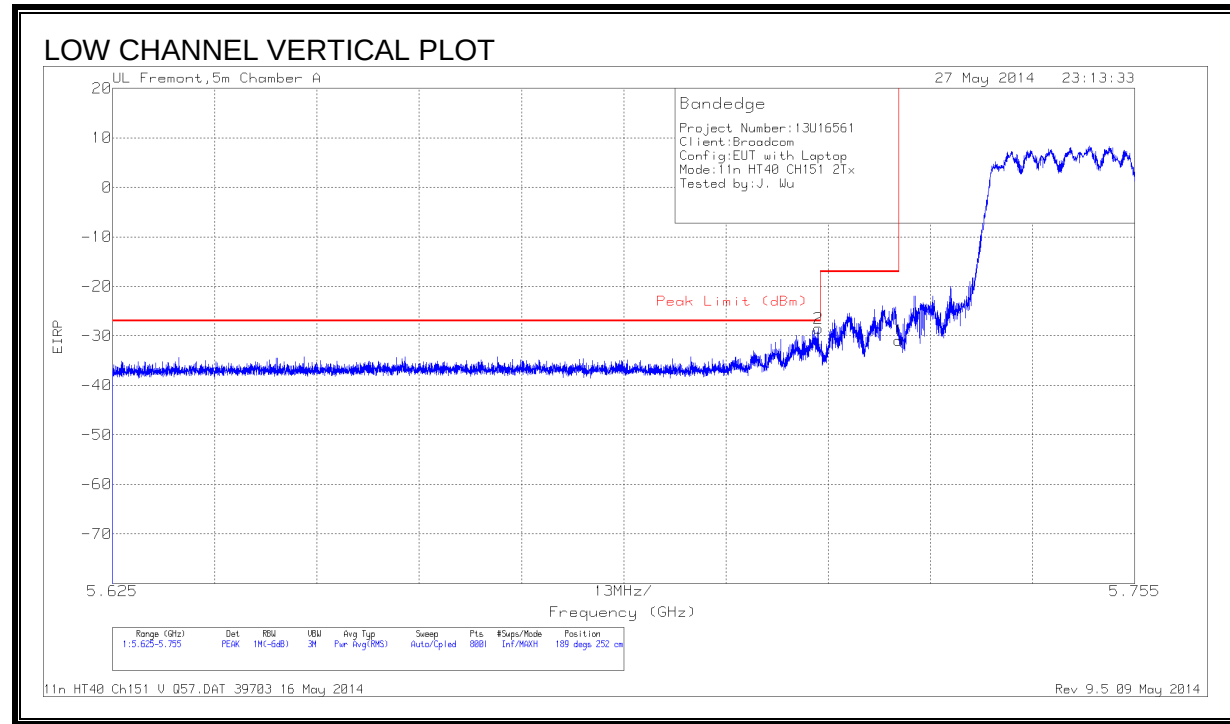
9.27 TX ABOVE 1 GHz 802.11n HT40 CDD 2TX MODE IN THE 5.8 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.714	-89.05	PK	34.5	9.5	11.8	6	-27.25	-27	-25	262	278	H
1	5.725	-93.57	PK	34.6	9.6	11.8	6	-31.57	-17	-14.57	262	278	H

PK - Peak detector

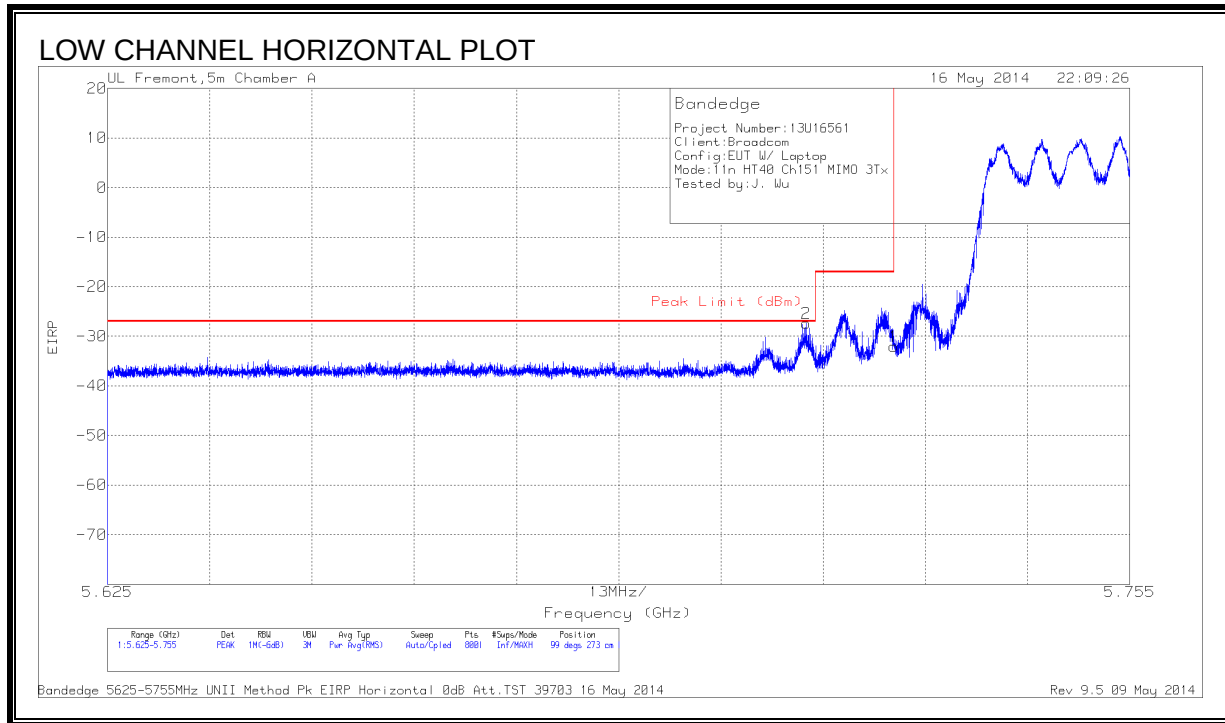


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.715	-90.35	PK	34.6	9.5	11.8	6	-28.45	-27	-1.45	189	252	V
1	5.725	-92.88	PK	34.6	9.6	11.8	6	-30.88	-17	-13.88	189	252	V

PK - Peak detector

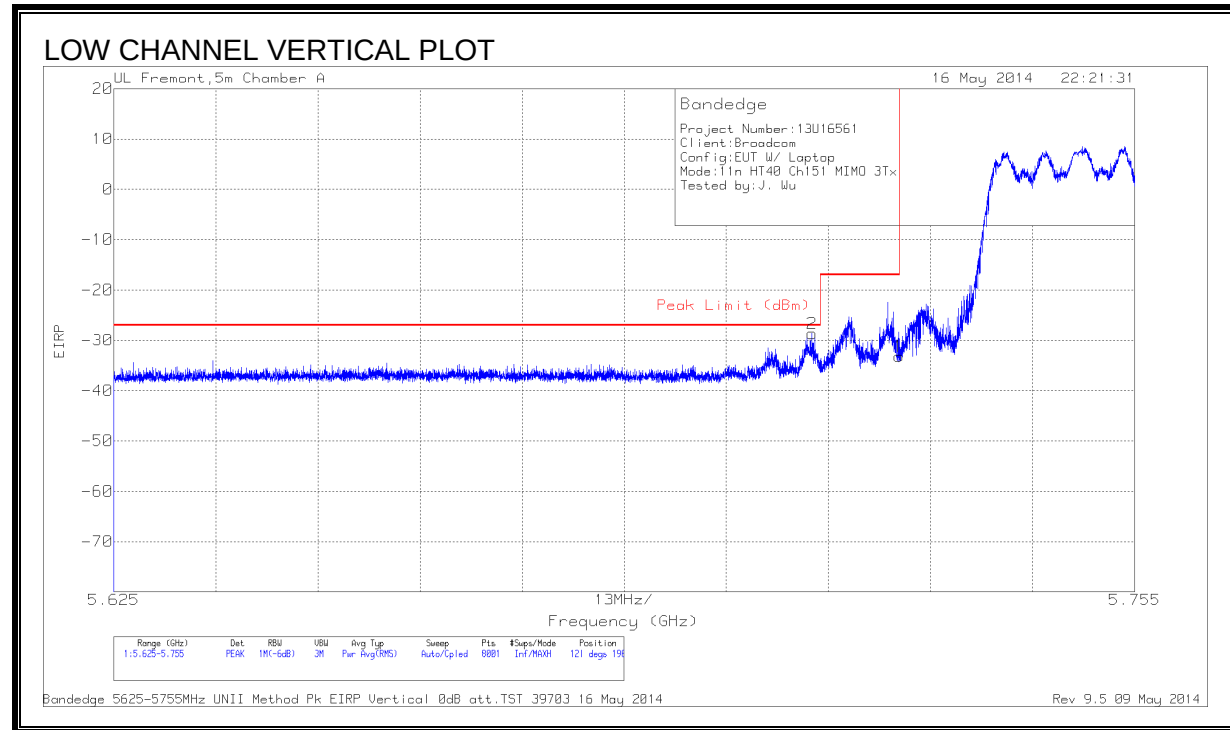
9.28 TX ABOVE 1 GHz 802.11n HT40 CDD 3TX MODE IN THE 5.8 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



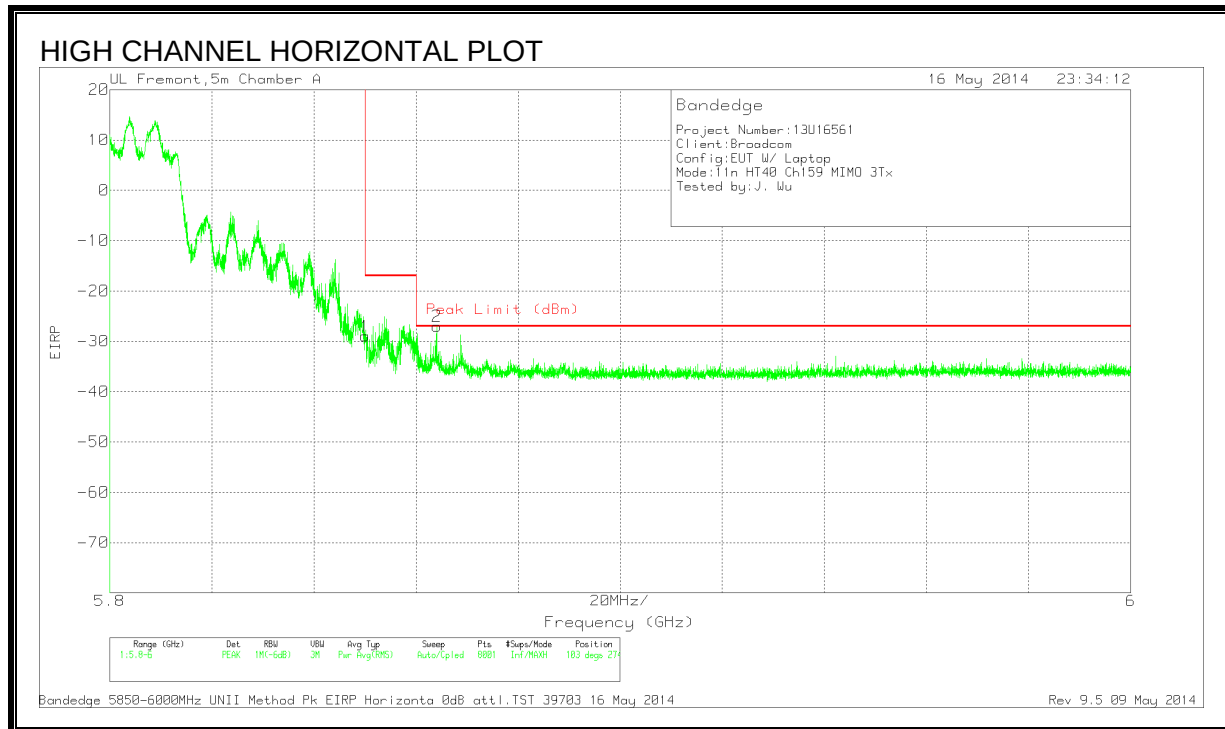
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.714	-89.31	PK	34.6	9.5	11.8	6	-27.41	-27	-41	99	273	H
1	5.725	-94.09	PK	34.6	9.6	11.8	6	-32.09	-17	-15.09	99	273	H

PK - Peak detector



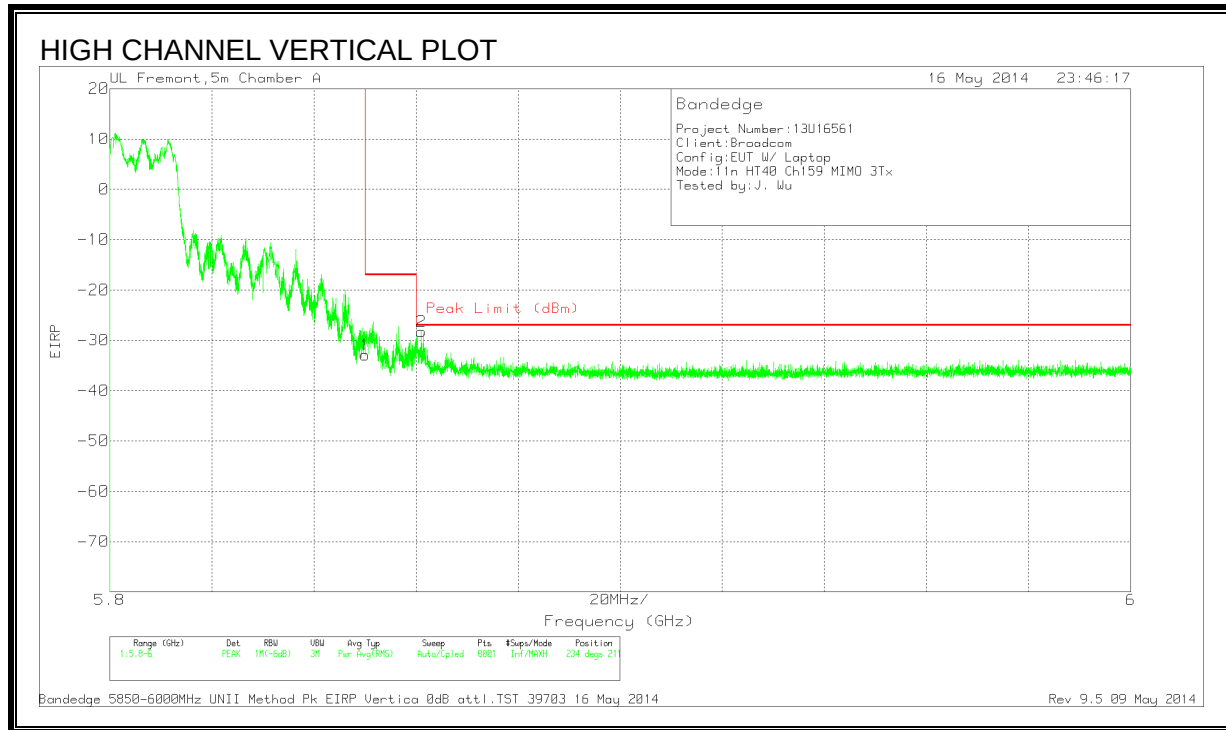
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.714	-90.55	PK	34.6	9.5	11.8	6	-28.65	-27	-1.65	121	196	V
1	5.725	-95.16	PK	34.6	9.6	11.8	6	-33.16	-17	-16.16	121	196	V

PK - Peak detector

RESTRICTED BANDEGE (HIGH CHANNEL)

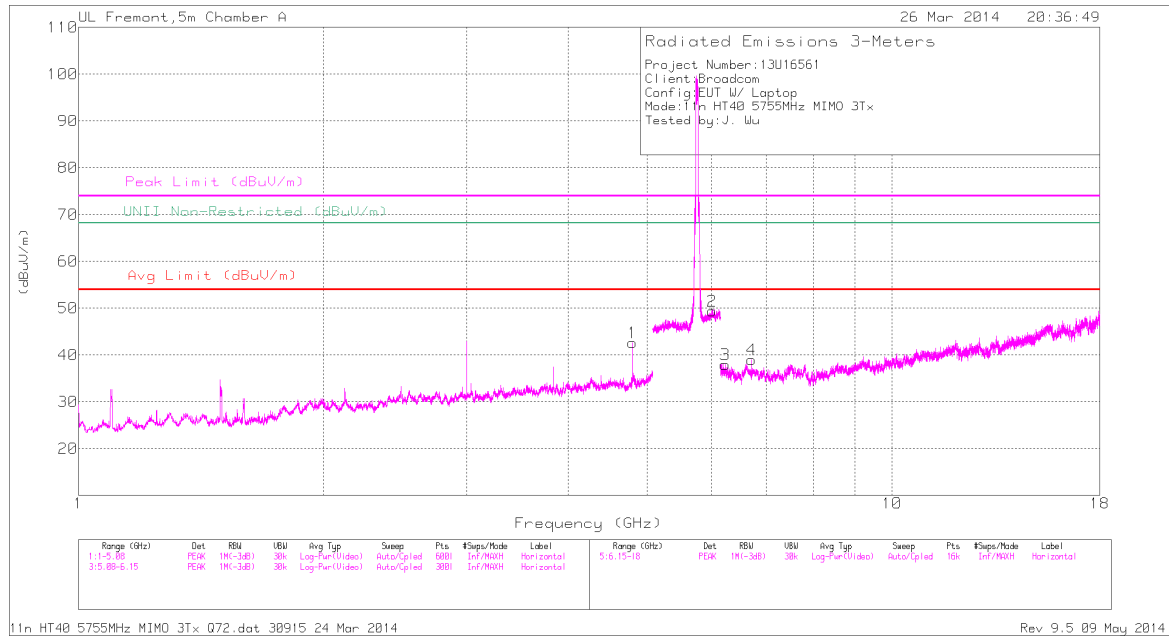
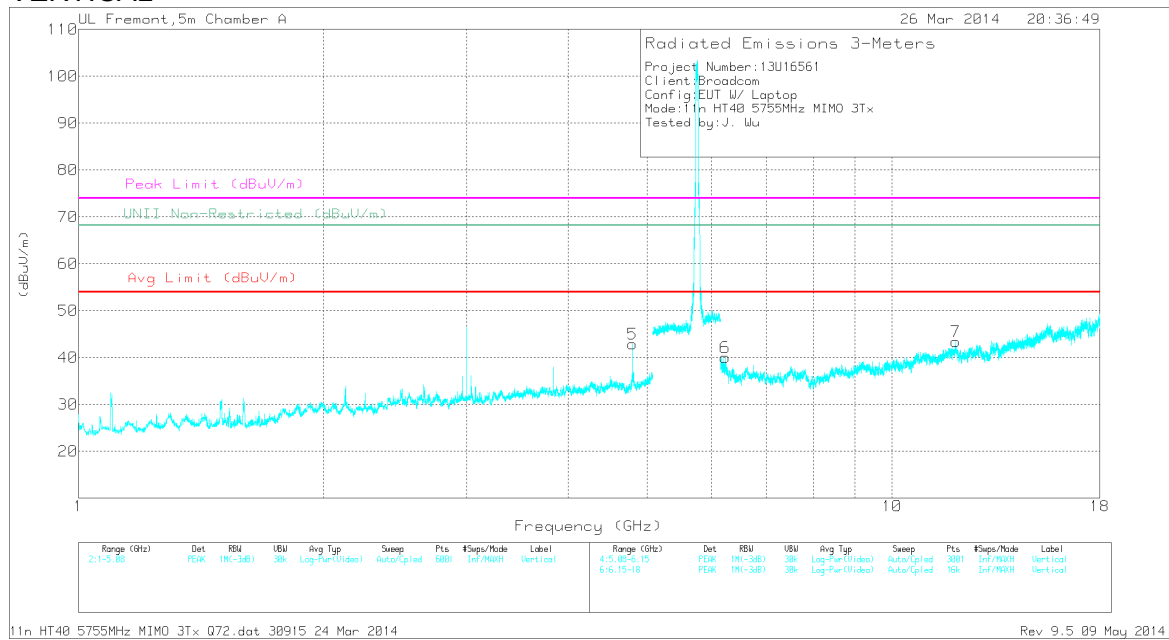
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-91.37	PK	34.9	9.7	11.8	6	-28.97	-17	-11.97	103	274	H
2	5.864	-89.41	PK	34.9	9.7	11.8	6	-27.01	-27	-.01	103	274	H

PK - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-95.29	PK	34.9	9.7	11.8	6	-32.89	-17	-15.89	234	211	V
2	5.861	-90.67	PK	34.9	9.7	11.8	6	-28.27	-27	-1.27	234	211	V

PK - Peak detector

HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL****HORIZONTAL****VERTICAL**

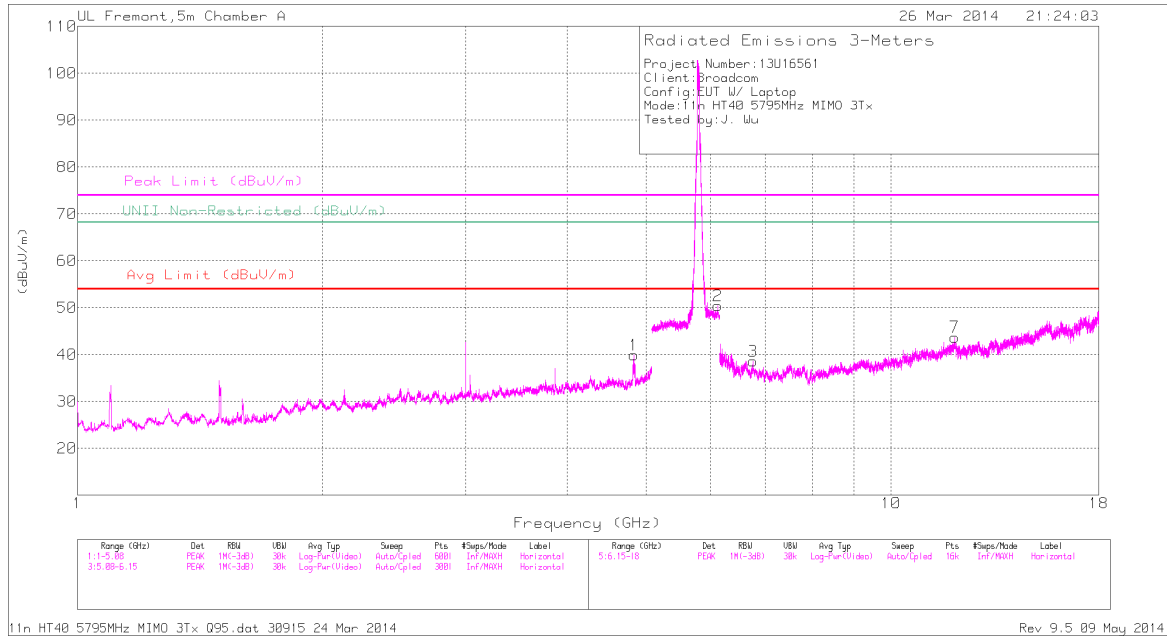
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.796	44.62	PK1	34	-29.3	0	49.32	-	-	74	-24.68	-	-	256	247	H
	* 4.796	39.83	AD1	34	-29.3	.4	44.93	54	-9.07	-	-	-	-	256	247	H
5	* 4.796	41.68	PK1	34	-29.3	0	46.38	-	-	74	-27.62	-	-	192	308	V
	* 4.796	35.23	AD1	34	-29.3	.4	40.33	54	-13.67	-	-	-	-	192	308	V
7	* 11.958	34.85	PK1	38.9	-22.3	0	51.45	-	-	74	-22.55	-	-	215	117	V
	* 11.971	23.17	AD1	38.9	-22.3	.4	40.17	54	-13.83	-	-	-	-	215	117	V
2	6.012	41.35	PK1	35.3	-18.8	0	57.85	-	-	-	-	68.2	-10.35	228	186	H
3	6.235	42.14	PK1	35.4	-28.2	0	49.34	-	-	-	-	68.2	-18.86	134	165	V
6	6.236	41.01	PK1	35.4	-28	0	48.41	-	-	-	-	68.2	-19.79	263	244	H
4	6.714	39	PK1	35.4	-28.7	0	45.7	-	-	-	-	68.2	-22.5	98	201	H

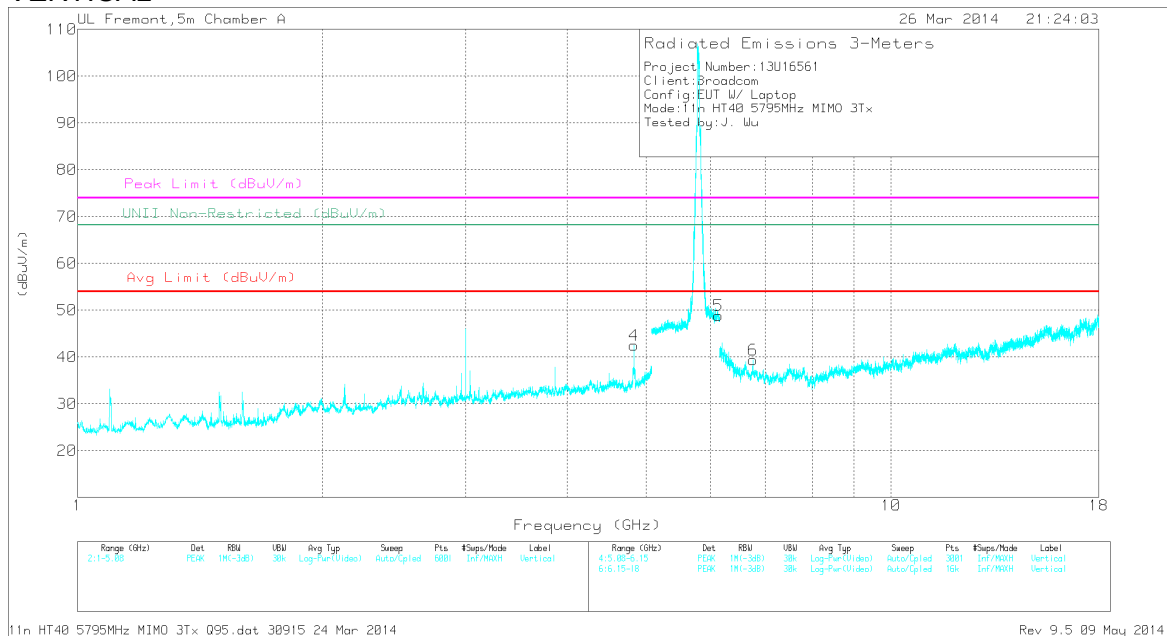
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL

HORIZONTAL



VERTICAL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.829	40.15	PK1	34	-29.5	0	44.65	-	-	74	-29.35	-	-	3	276	H
	* 4.829	32.53	AD1	34	-29.5	.4	37.43	54	-16.57	-	-	-	-	3	276	H
4	* 4.829	41.69	PK1	34	-29.5	0	46.19	-	-	74	-27.81	-	-	190	305	V
	* 4.829	35.32	AD1	34	-29.5	.4	40.22	54	-13.78	-	-	-	-	190	305	V
7	* 11.965	35.04	PK1	38.9	-21.8	0	52.14	-	-	74	-21.86	-	-	307	269	H
	* 11.96	23.25	AD1	38.9	-22.1	.4	40.45	54	-13.55	-	-	-	-	307	269	H
2	6.118	40.9	PK1	35.4	-18.5	0	57.8	-	-	-	-	68.2	-10.4	263	242	H
5	6.128	41.22	PK1	35.4	-18.7	0	57.92	-	-	-	-	68.2	-10.28	127	143	V
3	6.761	39.52	PK1	35.4	-27.8	0	47.12	-	-	-	-	68.2	-21.08	104	236	H
6	6.762	39.34	PK1	35.4	-27.8	0	46.94	-	-	-	-	68.2	-21.26	138	183	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

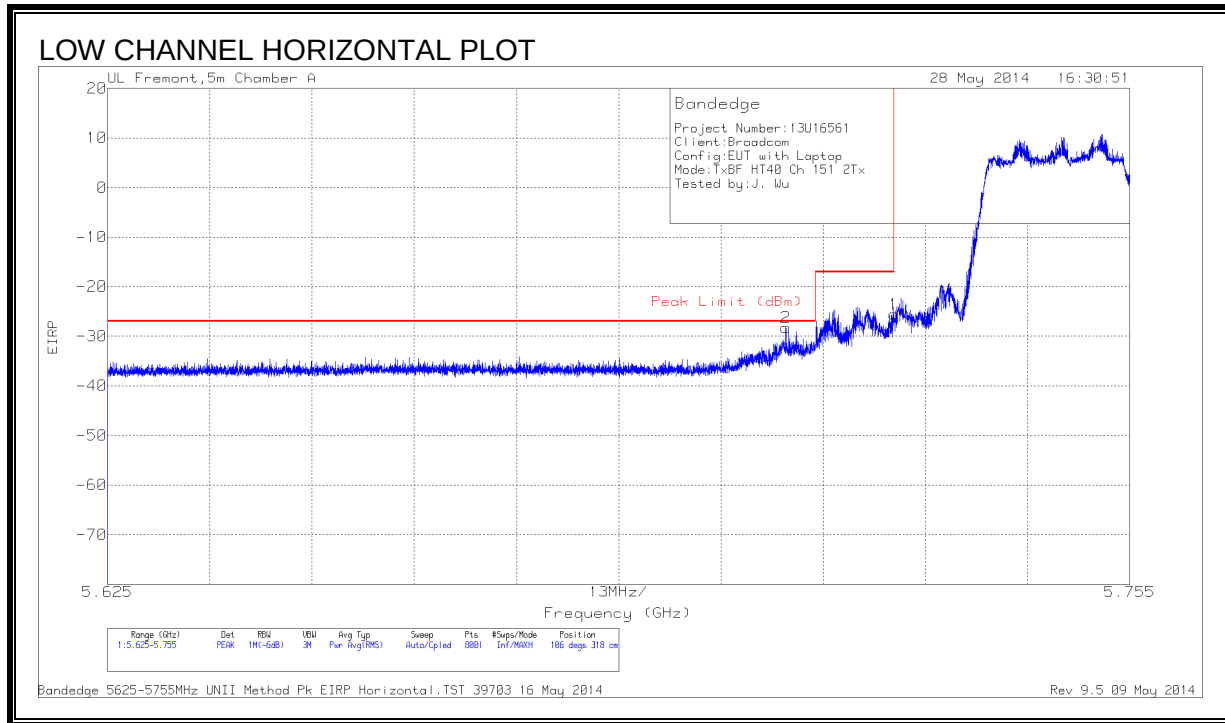
PK – Peak detector

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

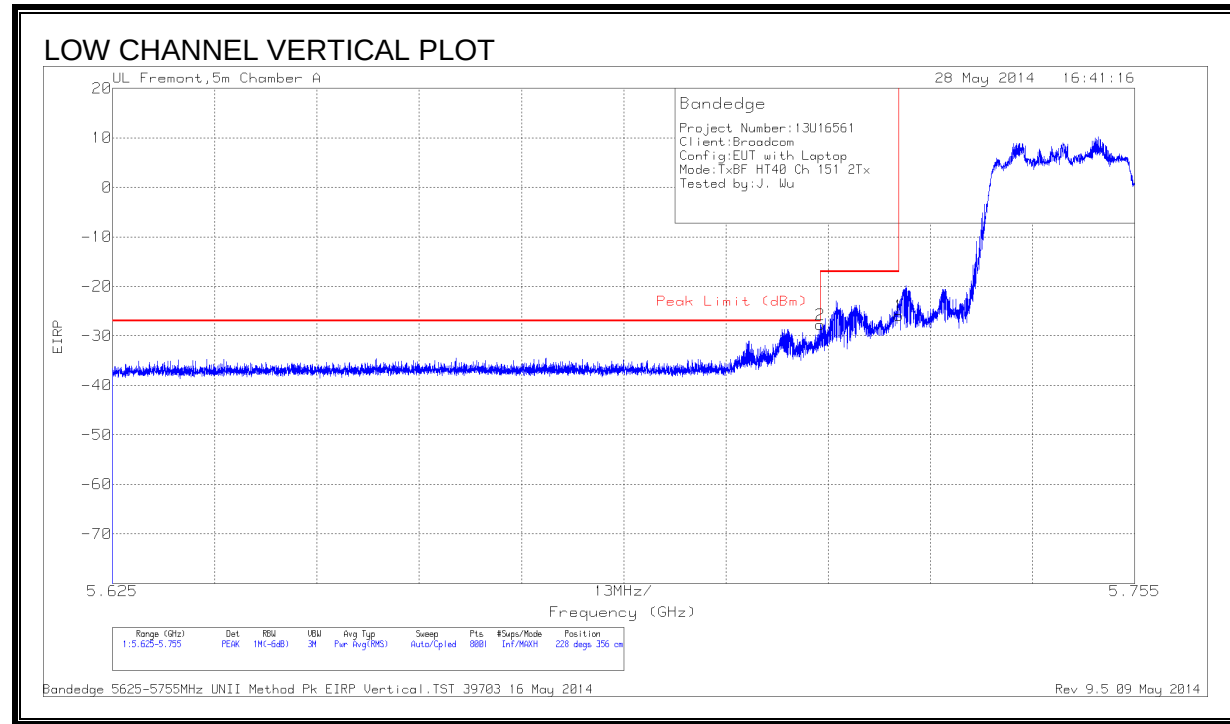
9.29 TX ABOVE 1 GHz 802.11n HT40 BF 2TX MODE IN THE 5.8 GHz BAND

RESTRICTED BANDEGE (LOW CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.711	-90.07	PK	34.5	9.5	11.8	6	-28.27	-27	-1.27	106	318	H
1	5.725	-87.51	PK	34.6	9.6	11.8	6	-25.51	-17	-8.51	106	318	H

PK - Peak detector

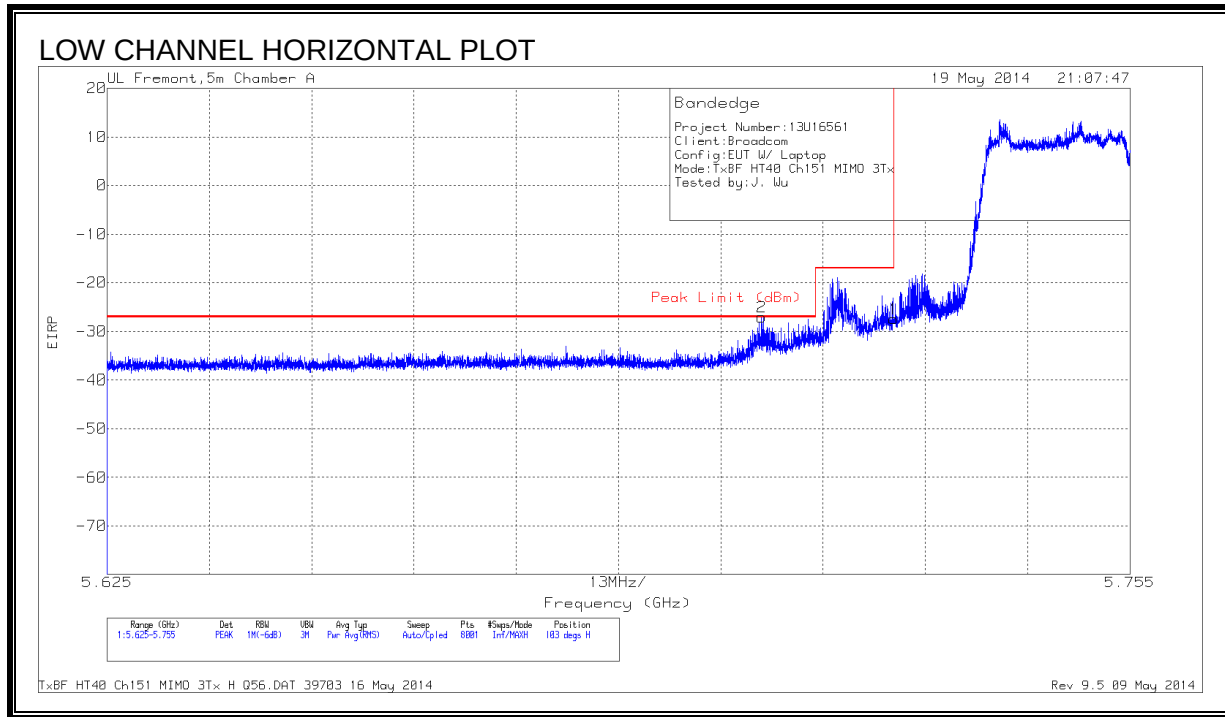


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.715	-89.66	PK	34.6	9.5	11.8	6	-27.76	-27	-.76	228	356	V
1	5.725	-87.93	PK	34.6	9.6	11.8	6	-25.93	-17	-8.93	228	356	V

PK - Peak detector

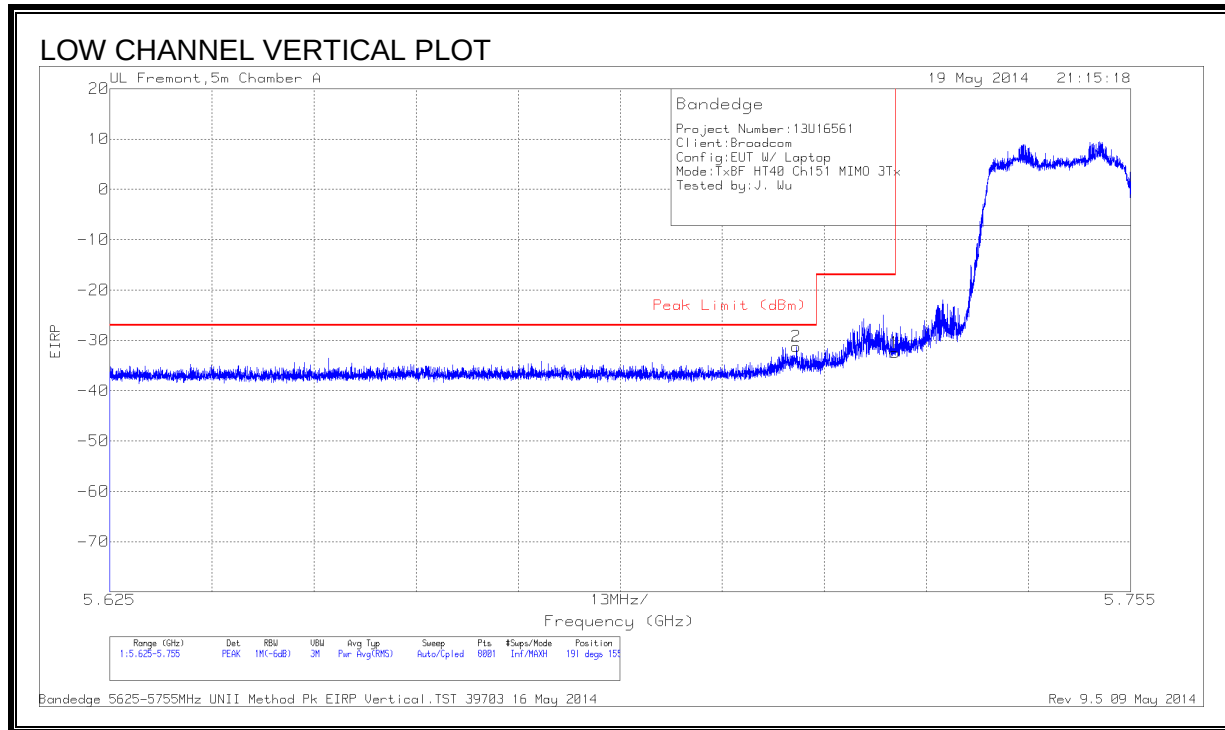
9.30 TX ABOVE 1 GHz 802.11n HT40 BF 3TX MODE IN THE 5.8 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



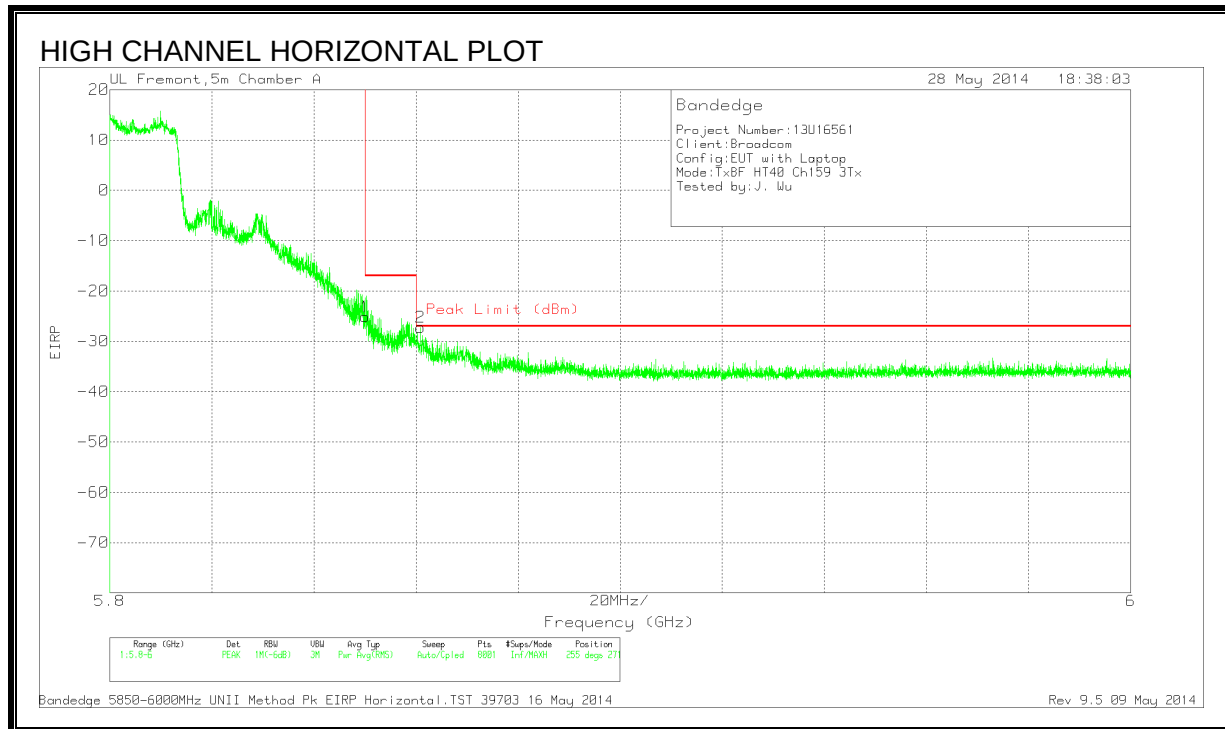
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.708	-88.84	PK	34.5	9.5	11.8	6	-27.04	-27	-.04	103	253	H
1	5.725	-89.44	PK	34.6	9.6	11.8	6	-27.44	-17	-10.44	103	253	H

PK - Peak detector



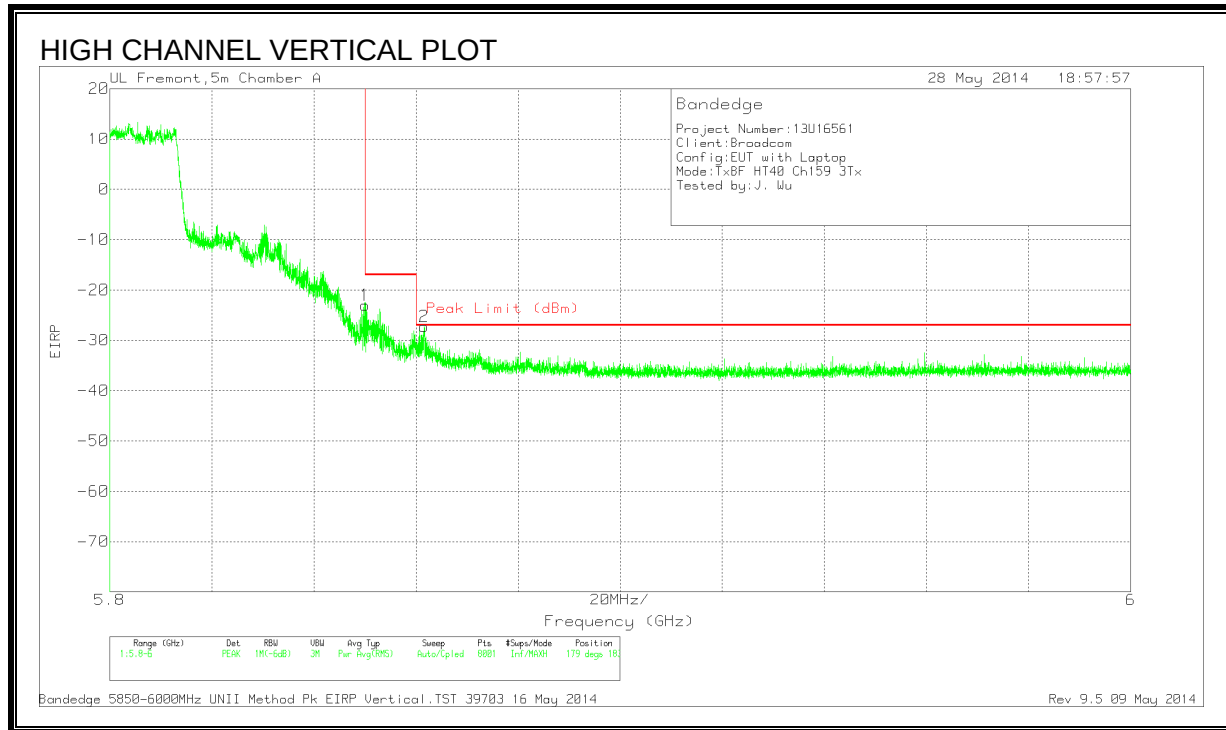
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.712	-93.01	PK	34.5	9.5	11.8	6	-31.21	-27	-4.21	191	155	V
1	5.725	-94.43	PK	34.6	9.6	11.8	6	-32.43	-17	-15.43	191	155	V

PK - Peak detector

RESTRICTED BANDEGE (HIGH CHANNEL)

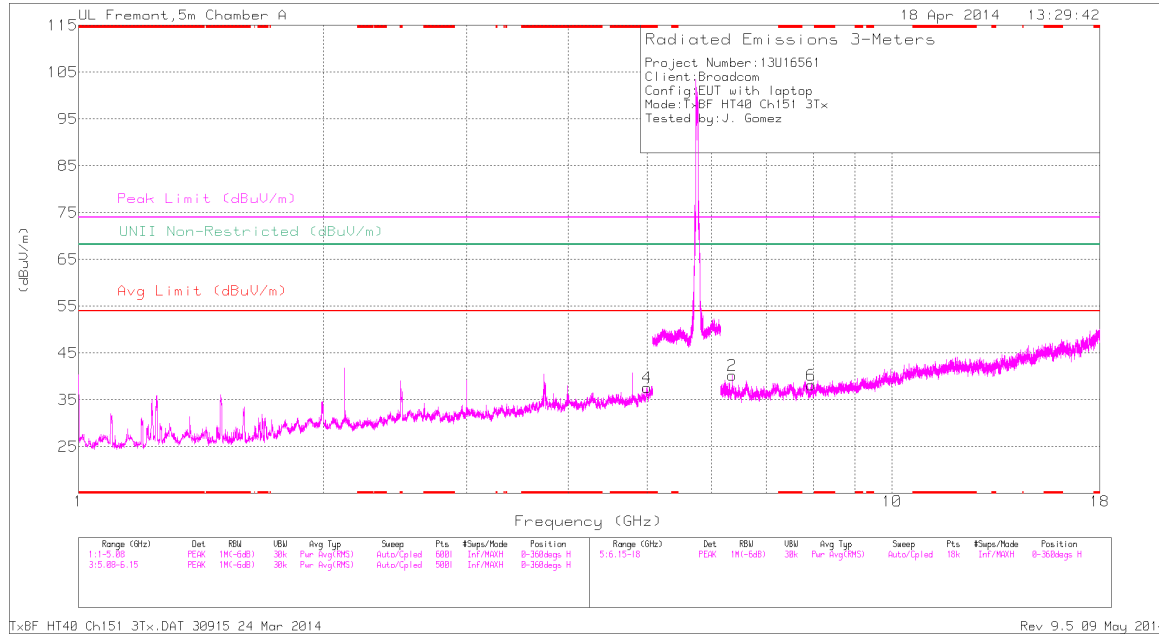
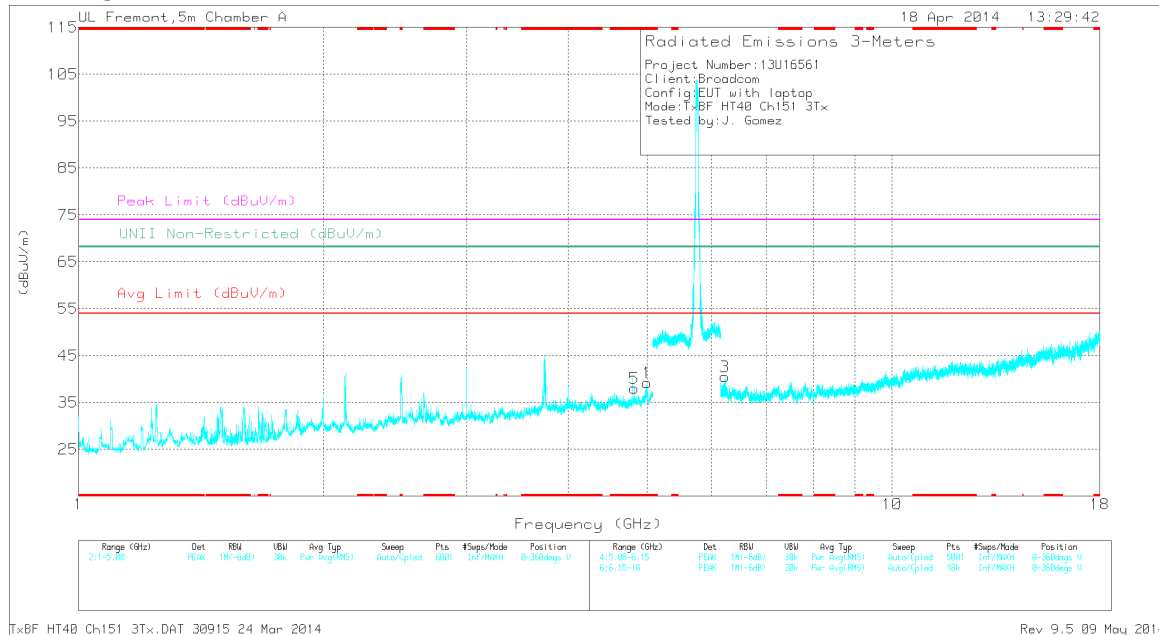
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-87.53	PK	34.9	9.7	11.8	6	-25.13	-17	-8.13	255	271	H
2	5.861	-89.61	PK	34.9	9.7	11.8	6	-27.21	-27	-.21	255	271	H

PK - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-85.4	PK	34.9	9.7	11.8	6	-23	-17	-6	179	183	V
2	5.862	-89.63	PK	34.9	9.7	11.8	6	-27.23	-27	-23	179	183	V

PK - Peak detector

HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL****HORIZONTAL****VERTICAL**

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 4.996	39.47	PK1	33.9	-28.6	0	44.77	-	-	74	-29.23	-	-	135	288	H
	* 5.007	29.52	AD1	33.9	-28.7	4.7	39.42	54	-14.58	-	-	-	-	135	288	H
1	* 4.998	41.52	PK1	33.9	-28.6	0	46.82	-	-	74	-27.18	-	-	267	124	V
	* 4.989	30.36	AD1	33.9	-28.6	4.7	40.36	54	-13.64	-	-	-	-	267	124	V
5	* 4.827	38.66	PK1	34	-29.5	0	43.16	-	-	74	-30.84	-	-	265	369	V
	* 4.832	27.97	AD1	34	-29.5	4.7	37.17	54	-16.83	-	-	-	-	265	369	V
3	6.234	40.96	PK1	35.4	-28.2	0	48.16	-	-	-	-	68.2	-20.04	130	338	V
2	6.355	37.96	PK1	35.5	-27.4	0	46.06	-	-	-	-	68.2	-22.14	103	163	H
6	7.963	36.52	PK1	35.5	-26.3	0	45.72	-	-	-	-	68.2	-22.48	12	140	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

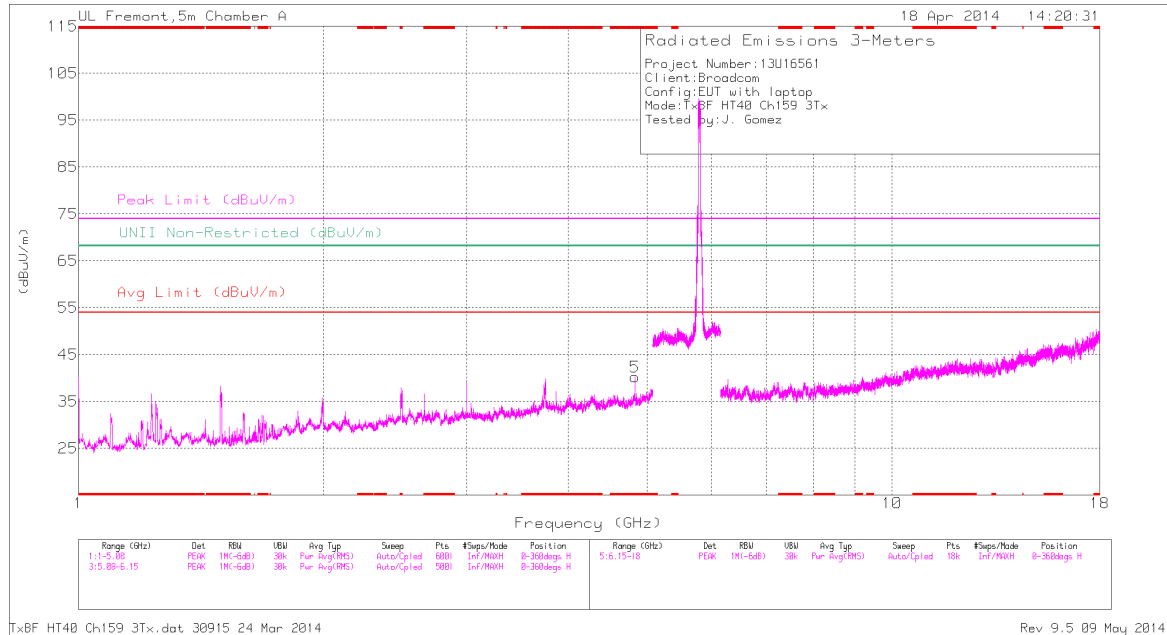
PK – Peak detector

PK1 - KDB789033 Method: Peak

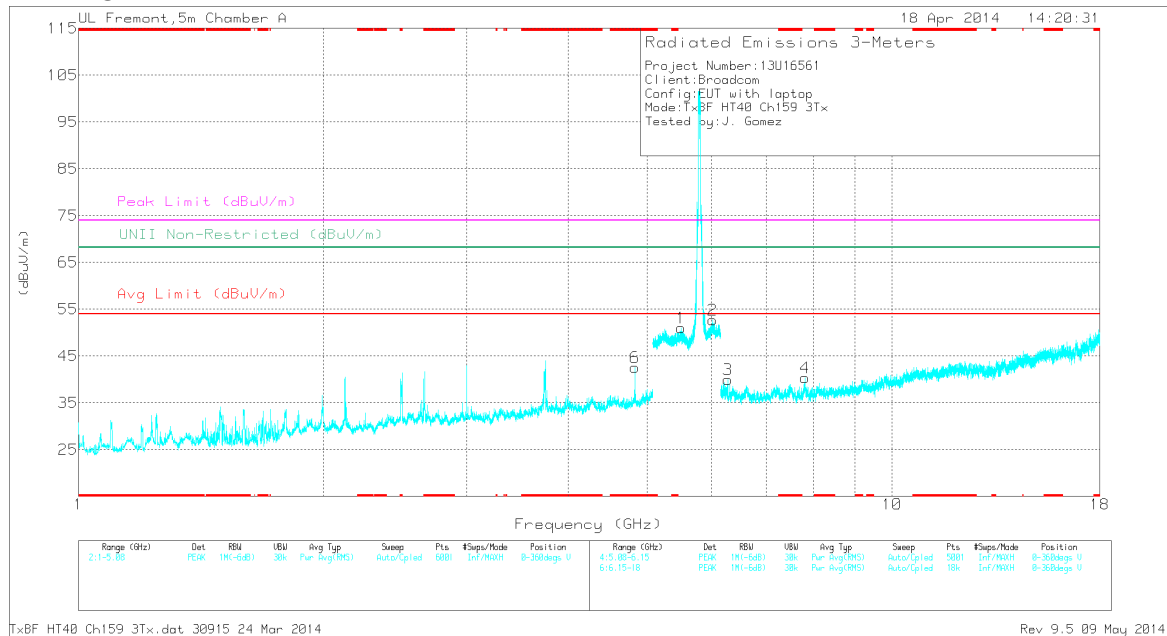
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL

HORIZONTAL



VERTICAL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 4.829	45.5	PK1	34	-29.5	0	50	-	-	74	-24	-	-	258	329	H
	* 4.829	37.6	AD1	34	-29.5	4.7	46.8	54	-7.2	-	-	-	-	258	329	H
6	* 4.829	44.61	PK1	34	-29.5	0	49.11	-	-	74	-24.89	-	-	190	303	V
	* 4.829	36.15	AD1	34	-29.5	4.7	45.35	54	-8.65	-	-	-	-	190	303	V
1	5.529	43.26	PK1	34.4	-19.7	0	57.96	-	-	-	-	68.2	-10.24	348	100	V
2	6.015	43.31	PK1	35.3	-18.8	0	59.81	-	-	-	-	68.2	-8.39	118	174	V
3	6.259	39.8	PK1	35.4	-27.5	0	47.7	-	-	-	-	68.2	-20.5	117	167	V
4	7.822	35.7	PK1	35.5	-24.3	0	46.9	-	-	-	-	68.2	-21.3	306	351	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

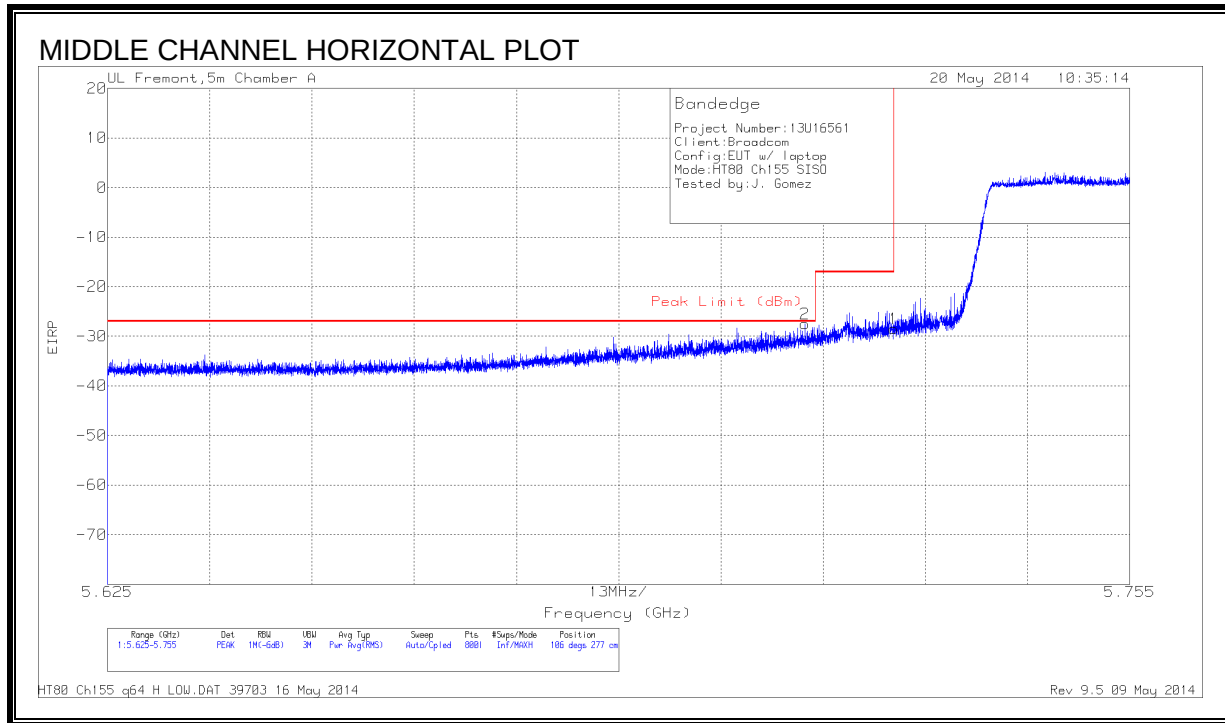
PK – Peak detector

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

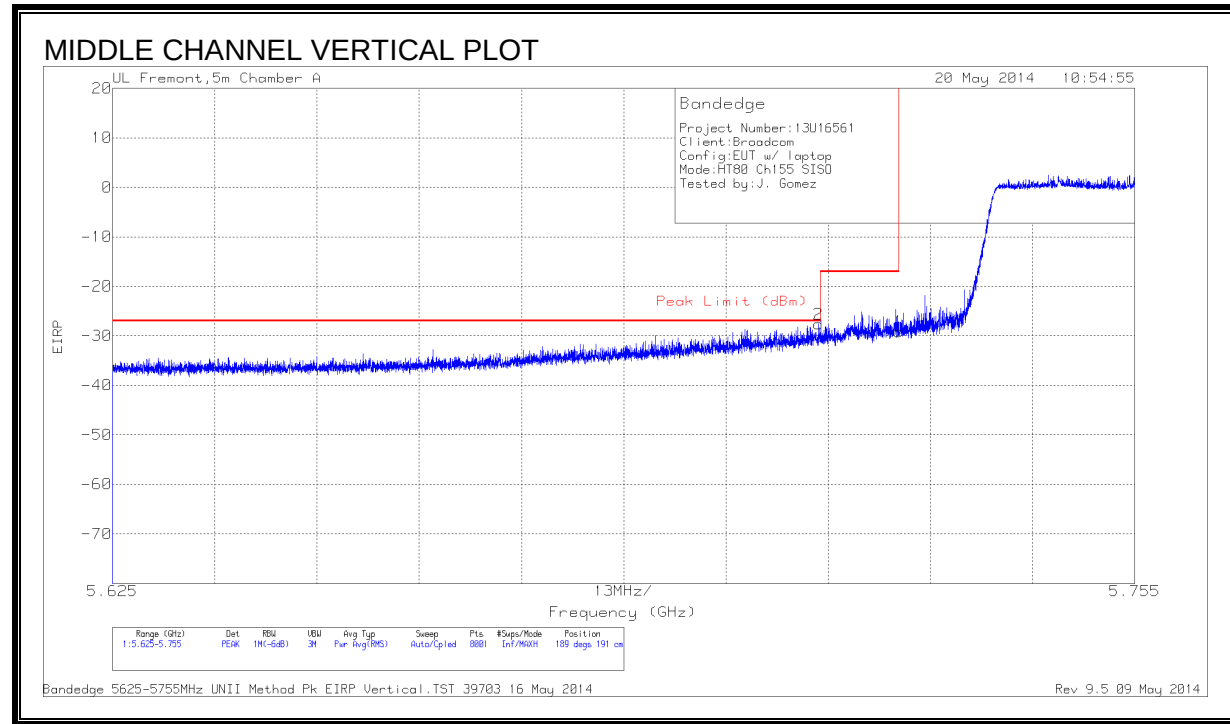
9.31 TX ABOVE 1 GHz 802.11ac VHT80 1TX MODE IN THE 5.8 GHz BAND

RESTRICTED BANDEDGE (LOW EDGE)



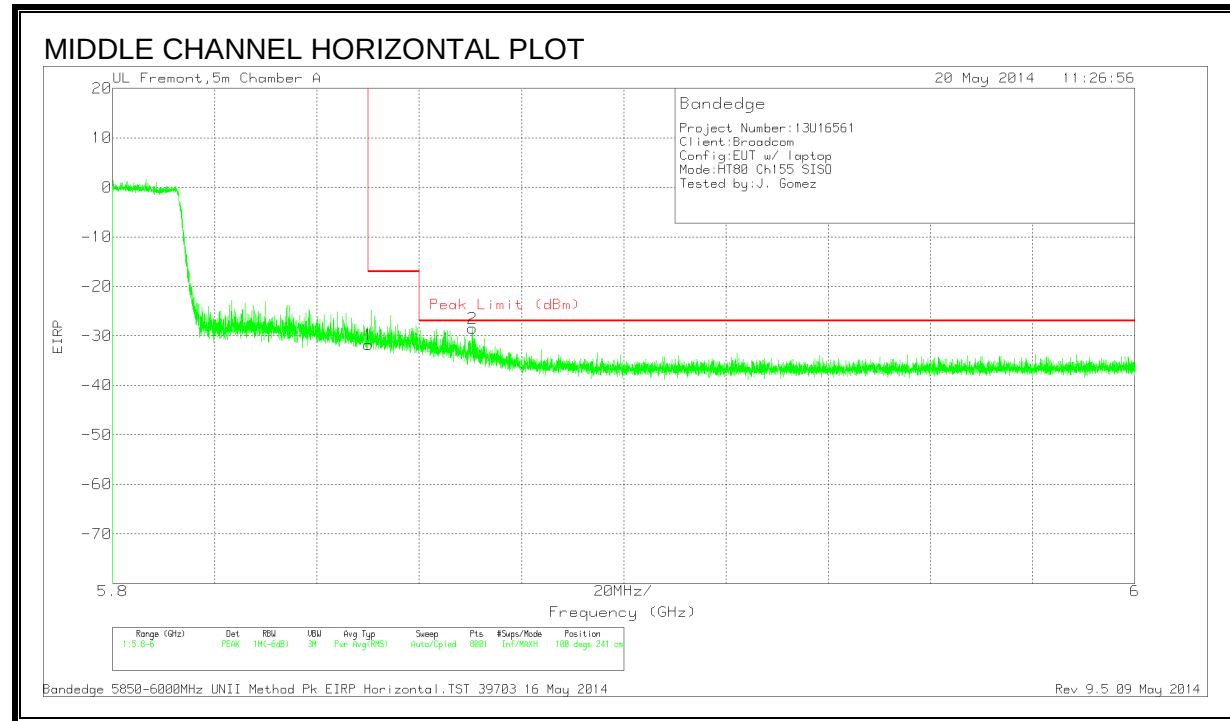
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.714	-89.4	PK	34.6	9.5	11.8	6	-27.5	-27	-5	106	277	H
1	5.725	-90.53	PK	34.6	9.6	11.8	6	-28.53	-17	-11.53	106	277	H

PK - Peak detector



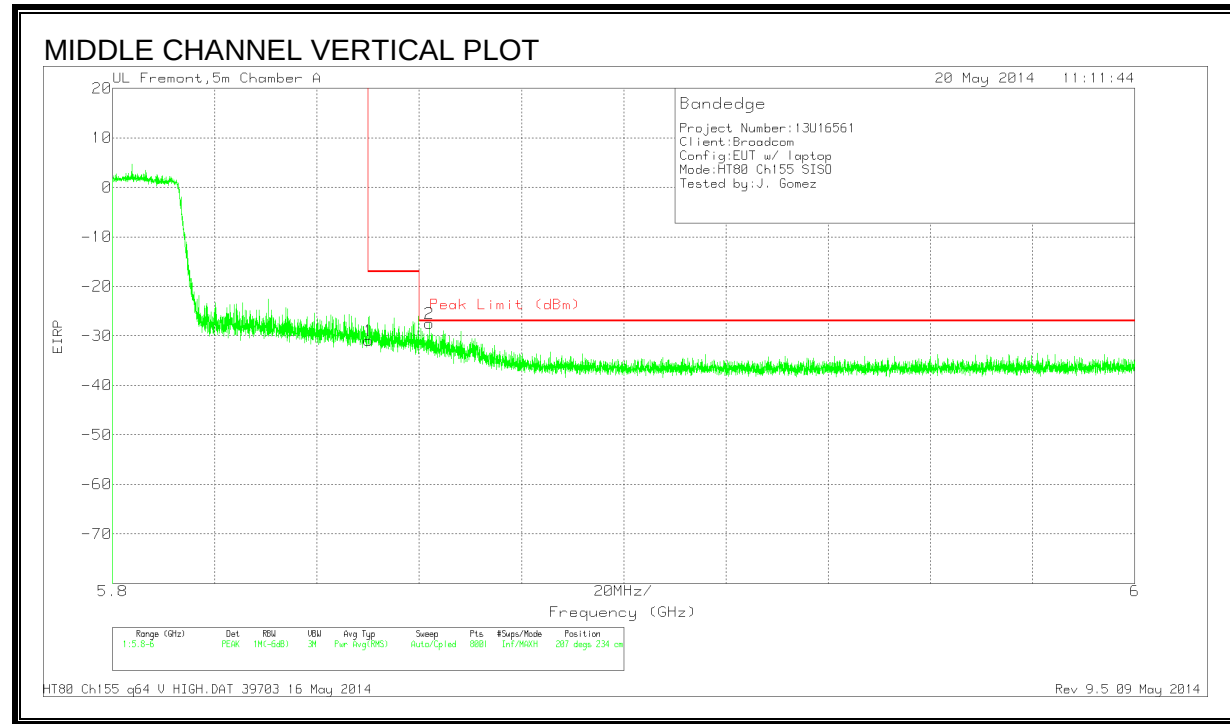
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.715	-89.53	PK	34.6	9.5	11.8	6	-27.63	-27	-.63	189	191	V
1	5.725	-91.15	PK	34.6	9.6	11.8	6	-29.15	-17	-12.15	189	191	V

PK - Peak detector

RESTRICTED BANDEDGE (HIGH EDGE)

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-94.21	PK	34.9	9.7	11.8	6	-31.81	-17	-14.81	100	241	H
2	5.87	-90.92	PK	34.9	9.7	11.8	6	-28.52	-27	-1.52	100	241	H

PK - Peak detector

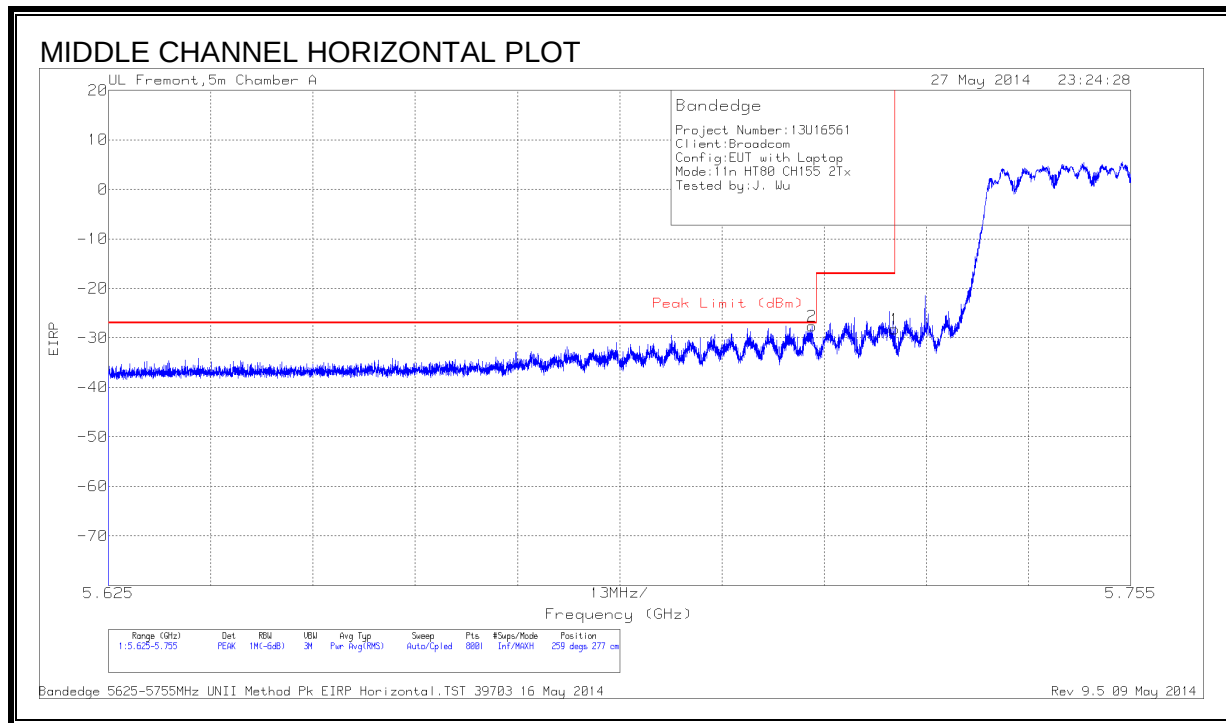


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-93.32	PK	34.9	9.7	11.8	6	-30.92	-17	-13.92	207	234	V
2	5.862	-89.94	PK	34.9	9.7	11.8	6	-27.54	-27	-.54	207	234	V

PK - Peak detector

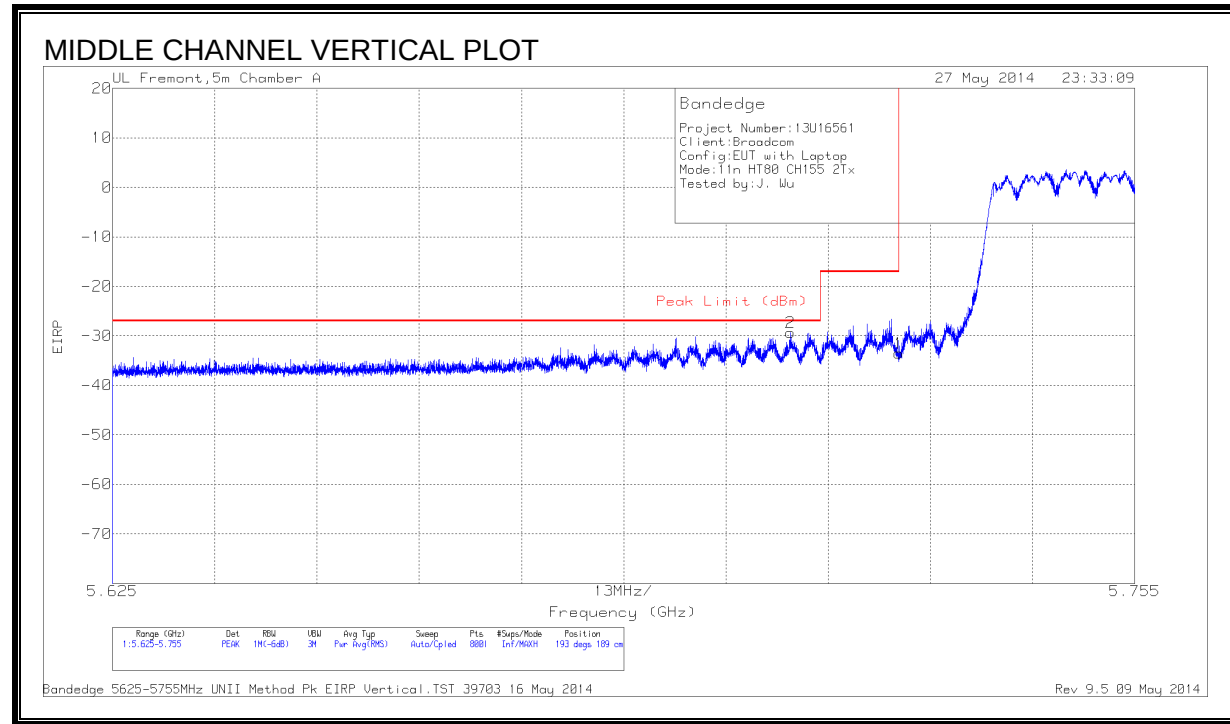
9.32 TX ABOVE 1 GHz 802.11ac VHT80 CDD 2Tx MODE IN THE 5.8 GHz BAND

RESTRICTED BANDEDGE (LOW EDGE)



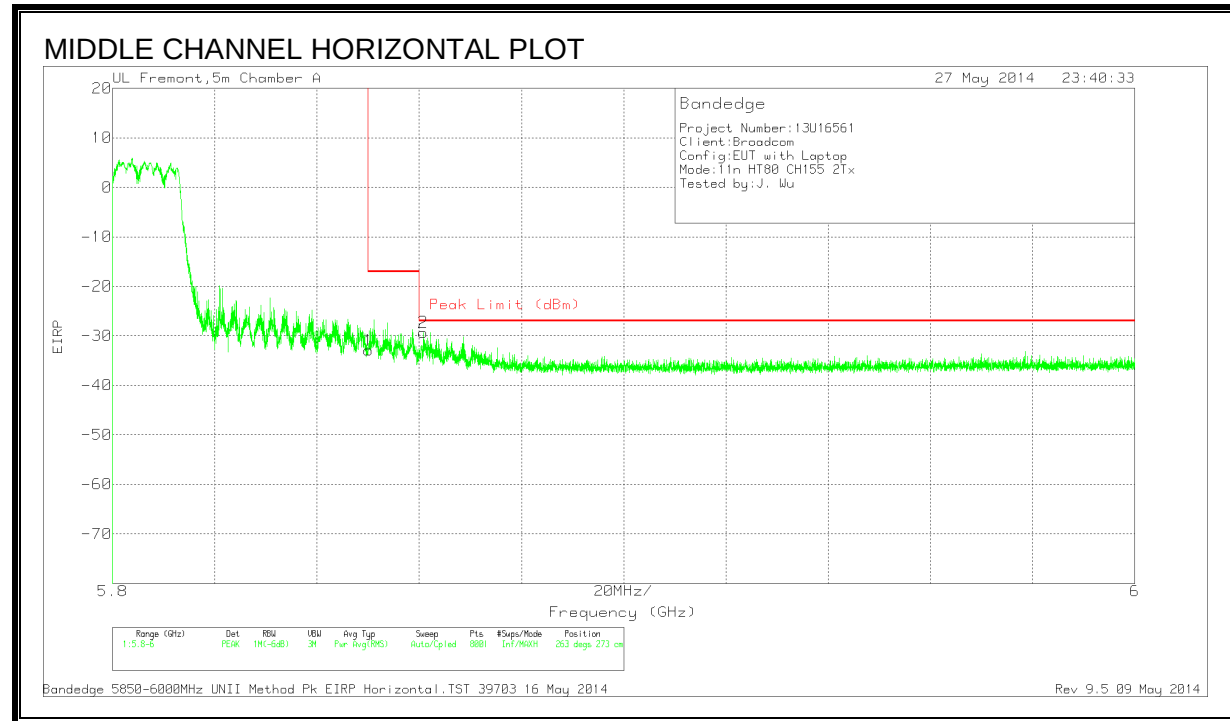
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.714	-89.53	PK	34.6	9.5	11.8	6	-27.63	-27	-.63	259	277	H
1	5.725	-90.24	PK	34.6	9.6	11.8	6	-28.24	-17	-11.24	259	277	H

PK - Peak detector



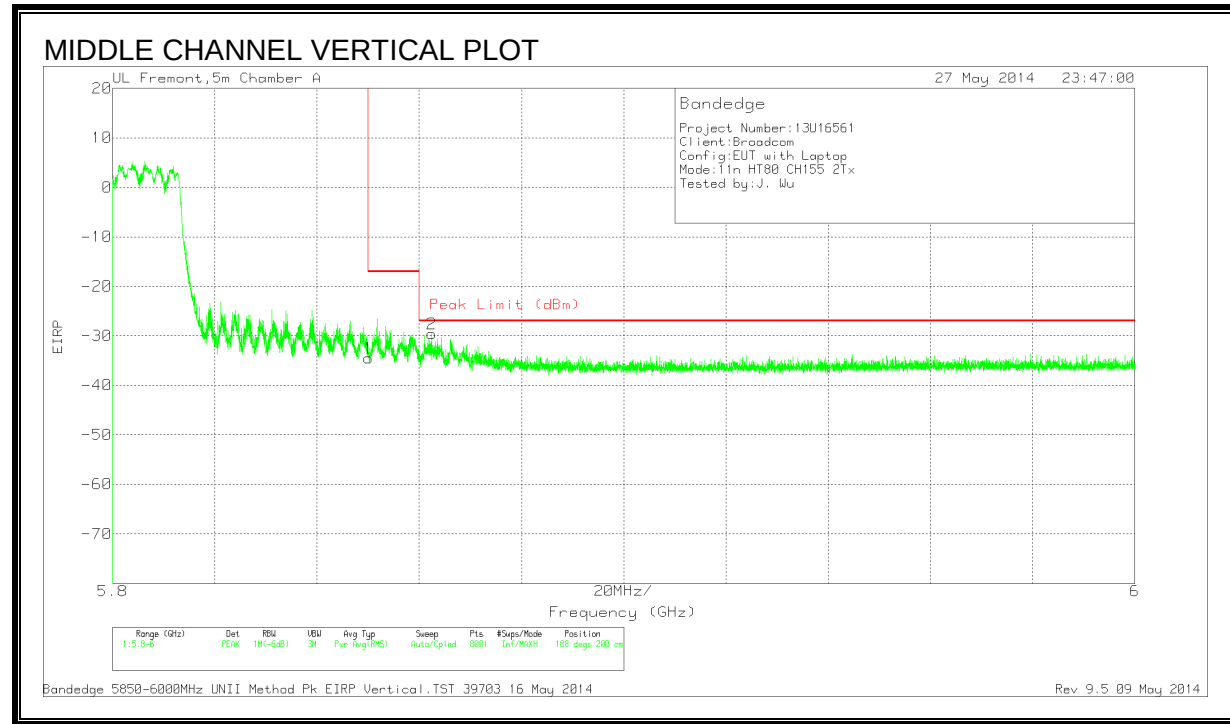
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.711	-91.19	PK	34.5	9.5	11.8	6	-29.39	-27	-2.39	193	189	V
1	5.725	-95.48	PK	34.6	9.6	11.8	6	-33.48	-17	-16.48	193	189	V

PK - Peak detector

RESTRICTED BANDEDGE (HIGH EDGE)

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-95.27	PK	34.9	9.7	11.8	6	-32.87	-17	-15.87	263	273	H
2	5.861	-91.68	PK	34.9	9.7	11.8	6	-29.28	-27	-2.28	263	273	H

PK - Peak detector

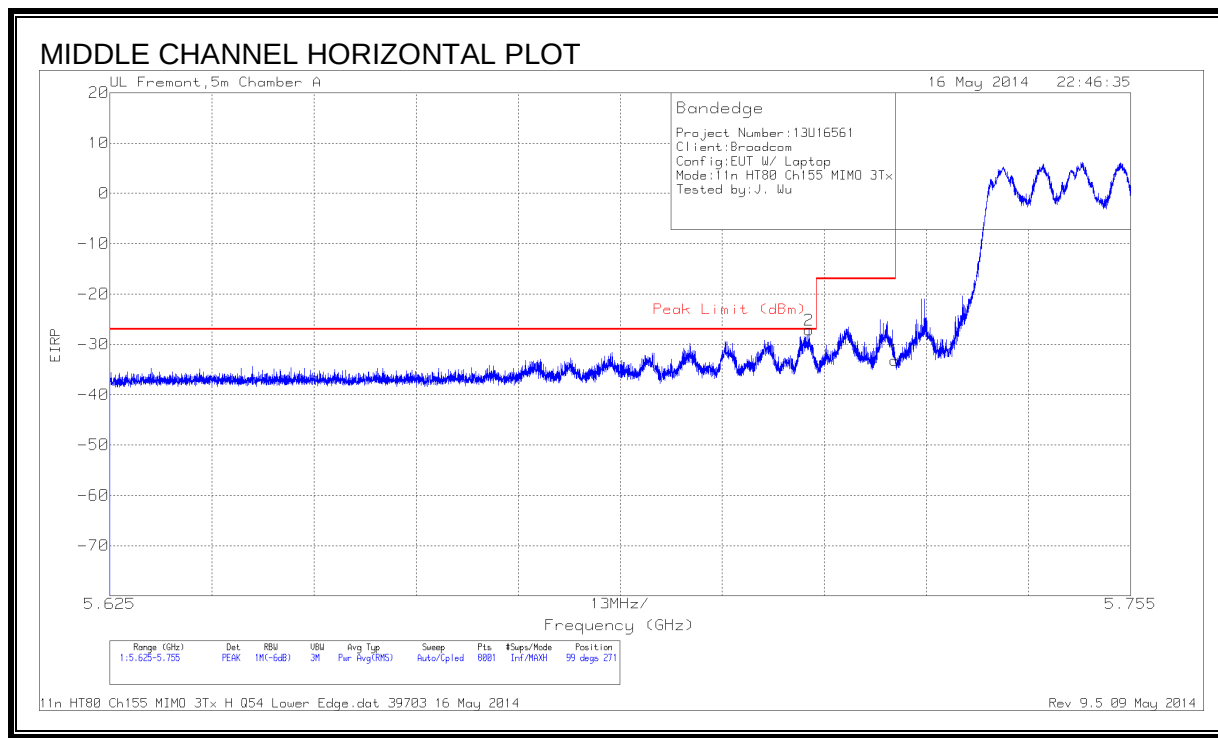


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-96.91	PK	34.9	9.7	11.8	6	-34.51	-17	-17.51	188	200	V
2	5.862	-91.93	PK	34.9	9.7	11.8	6	-29.53	-27	-2.53	188	200	V

PK - Peak detector

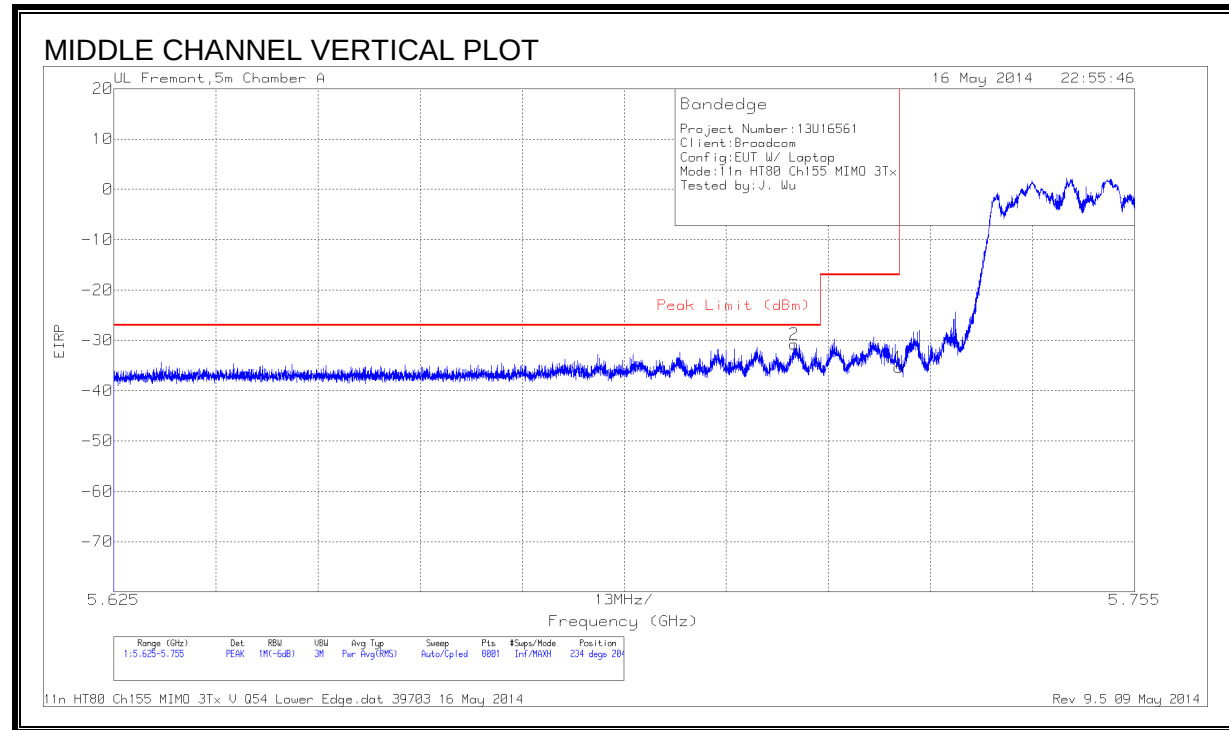
9.33 TX ABOVE 1 GHz 802.11ac VHT80 CDD 3Tx MODE IN THE 5.8 GHz BAND

RESTRICTED BANDEDGE (LOW EDGE)



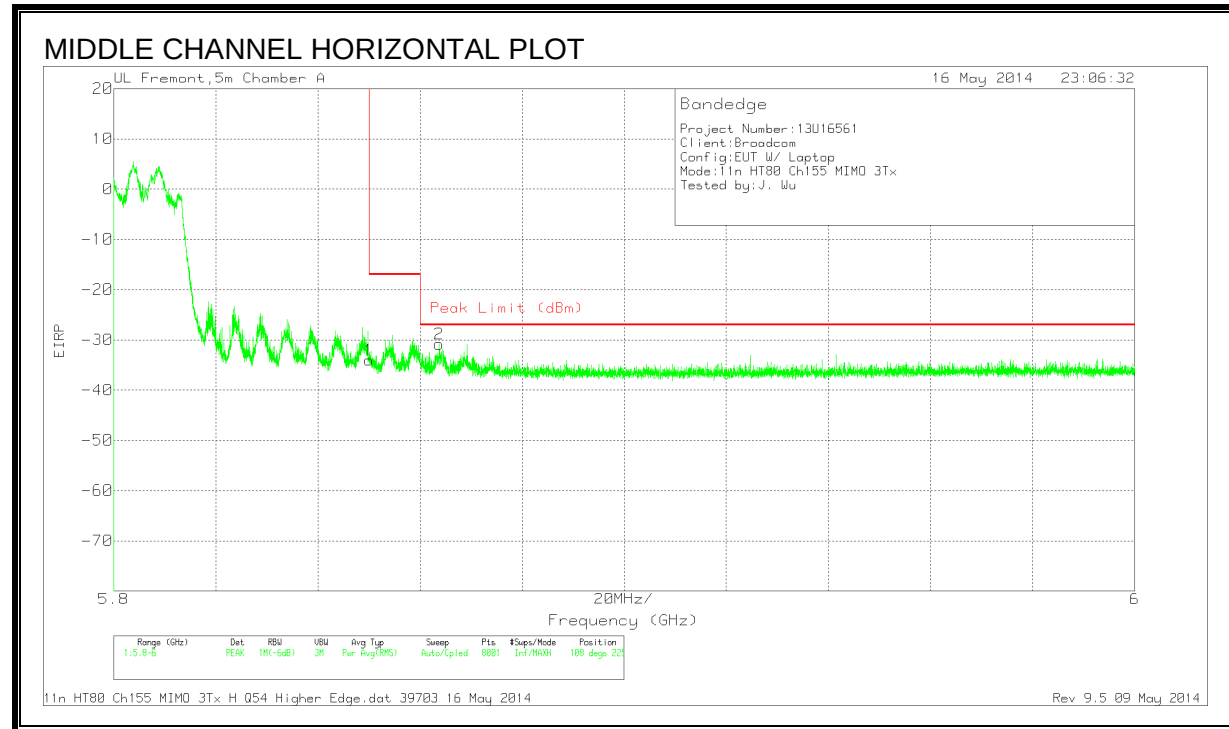
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.714	-89.05	PK	34.6	9.5	11.8	6	-27.15	-27	-.15	99	271	H
1	5.725	-95.17	PK	34.6	9.6	11.8	6	-33.17	-17	-16.17	99	271	H

PK - Peak detector



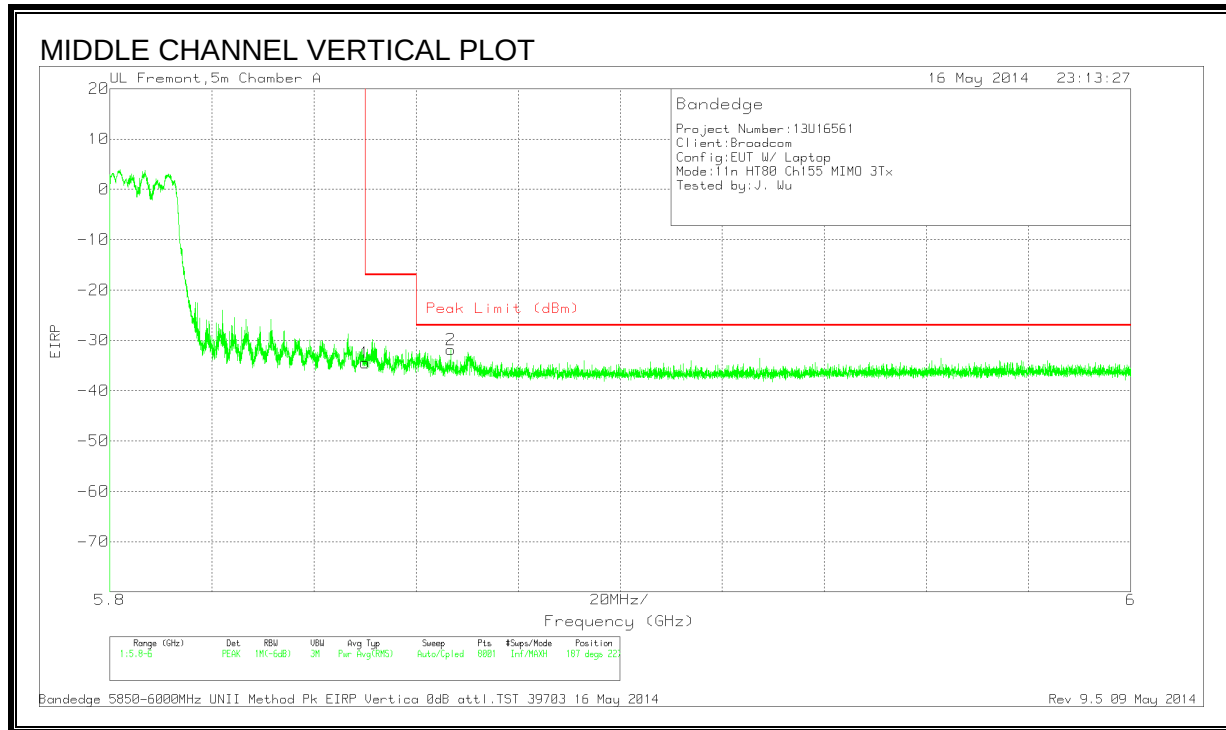
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.712	-92.55	PK	34.5	9.5	11.8	6	-30.75	-27	-3.75	234	204	V
1	5.725	-97.34	PK	34.6	9.6	11.8	6	-35.34	-17	-18.34	234	204	V

PK - Peak detector



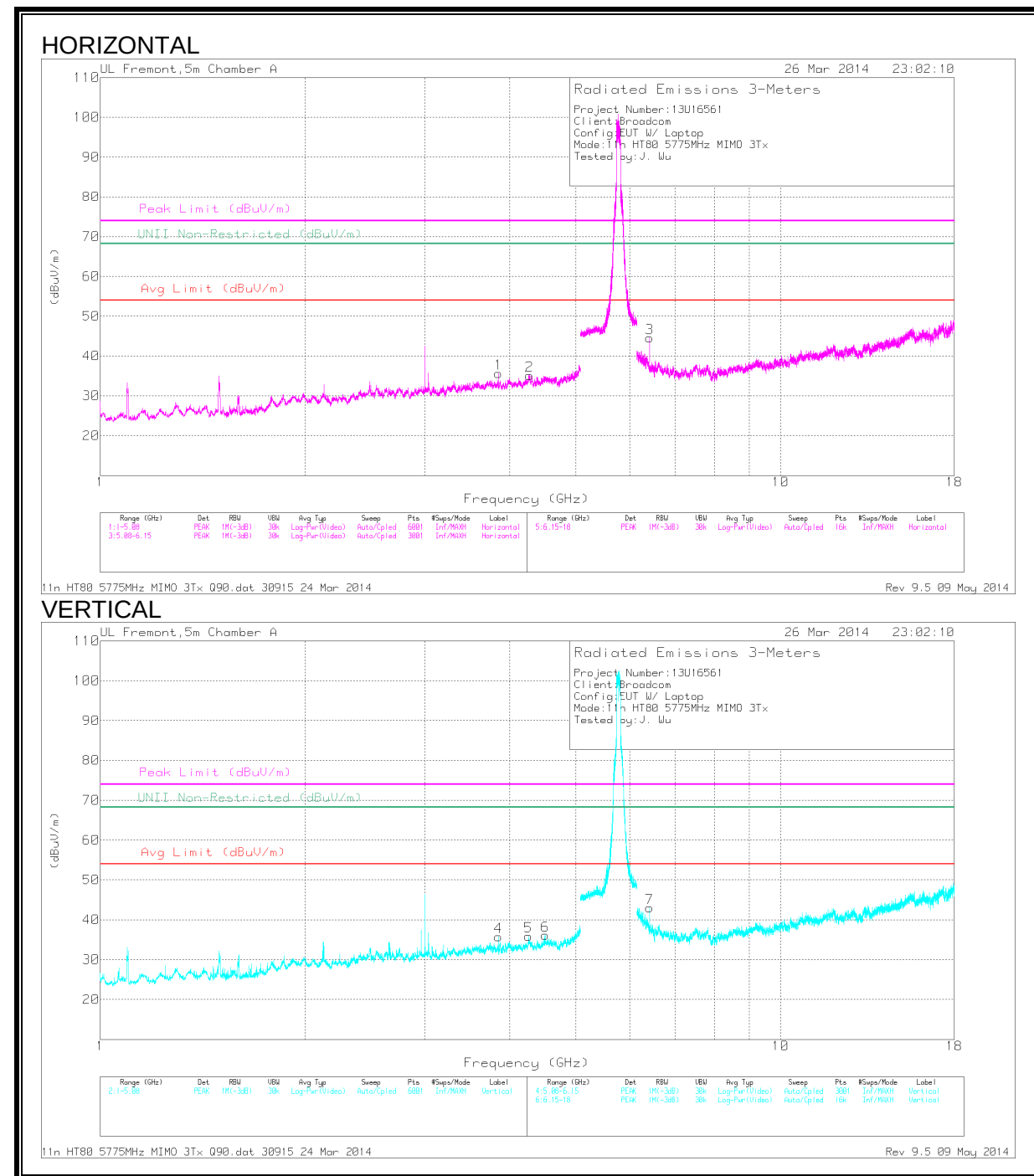
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-96.4	PK	34.9	9.7	11.8	6	-34	-17	-17	108	225	H
2	5.864	-93.23	PK	34.9	9.7	11.8	6	-30.83	-27	-3.83	108	225	H

PK - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-96.85	PK	34.9	9.7	11.8	6	-34.45	-17	-17.45	187	227	V
2	5.867	-94.24	PK	34.9	9.7	11.8	6	-31.84	-27	-4.84	187	227	V

PK - Peak detector

HARMONICS AND SPURIOUS EMISSIONS**MID CHANNEL**

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.85	37.52	PK1	33.7	-31.4	0	39.82	-	-	74	-34.18	-	-	265	223	H
	* 3.85	28.61	AD1	33.7	-31.5	.7	31.51	54	-22.49	-	-	-	-	265	223	H
2	* 4.268	35.24	PK1	34	-28.4	0	40.84	-	-	74	-33.16	-	-	300	173	H
	* 4.269	23.9	AD1	34	-28.5	.7	30.1	54	-23.9	-	-	-	-	300	173	H
4	* 3.85	37.17	PK1	33.7	-31.4	0	39.47	-	-	74	-34.53	-	-	262	178	V
	* 3.85	28.31	AD1	33.7	-31.5	.7	31.21	54	-22.79	-	-	-	-	262	178	V
5	* 4.271	35.44	PK1	34	-28.6	0	40.84	-	-	74	-33.16	-	-	205	255	V
	* 4.271	24	AD1	34	-28.6	.7	30.1	54	-23.9	-	-	-	-	205	255	V
6	* 4.52	35.65	PK1	33.9	-29.4	0	40.15	-	-	74	-33.85	-	-	222	182	V
	* 4.521	24.38	AD1	33.9	-29.5	.7	29.48	54	-24.52	-	-	-	-	222	182	V
3	6.417	43.77	PK1	35.5	-27.8	0	51.47	-	-	-	-	68.2	-16.73	95	232	H
7	6.417	43.26	PK1	35.5	-27.8	0	50.96	-	-	-	-	68.2	-17.24	194	206	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

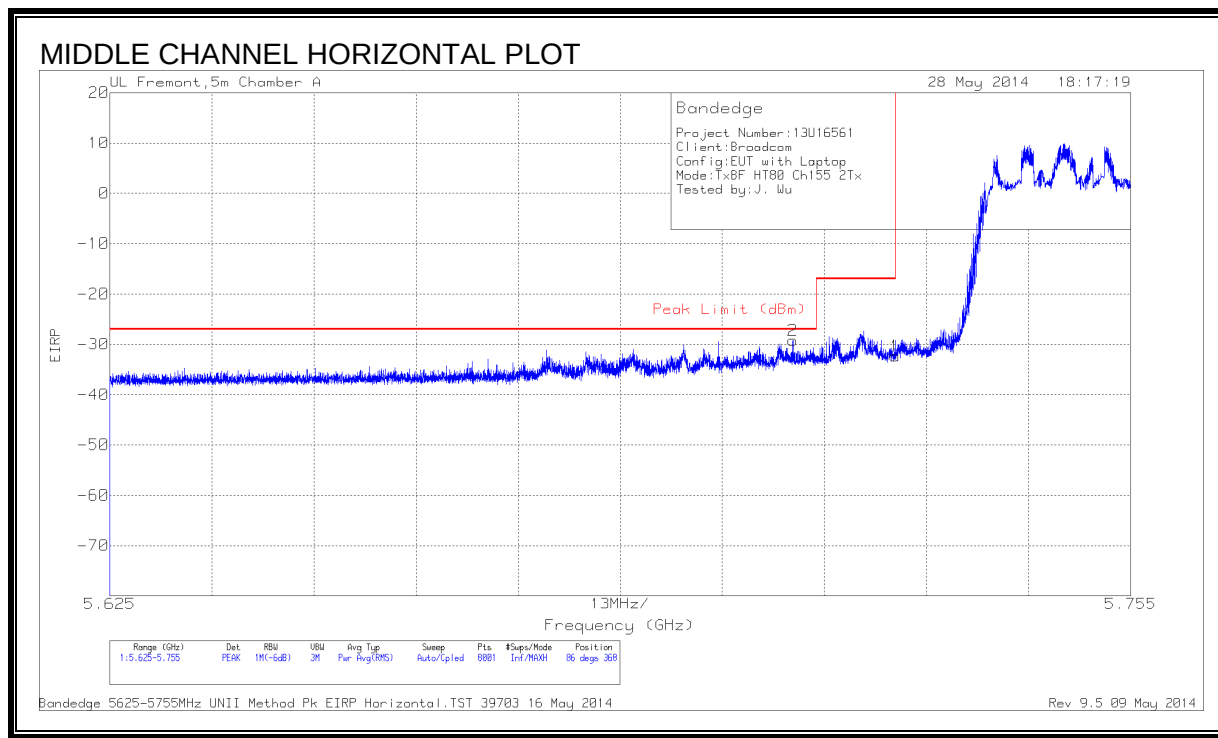
PK – Peak detector

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

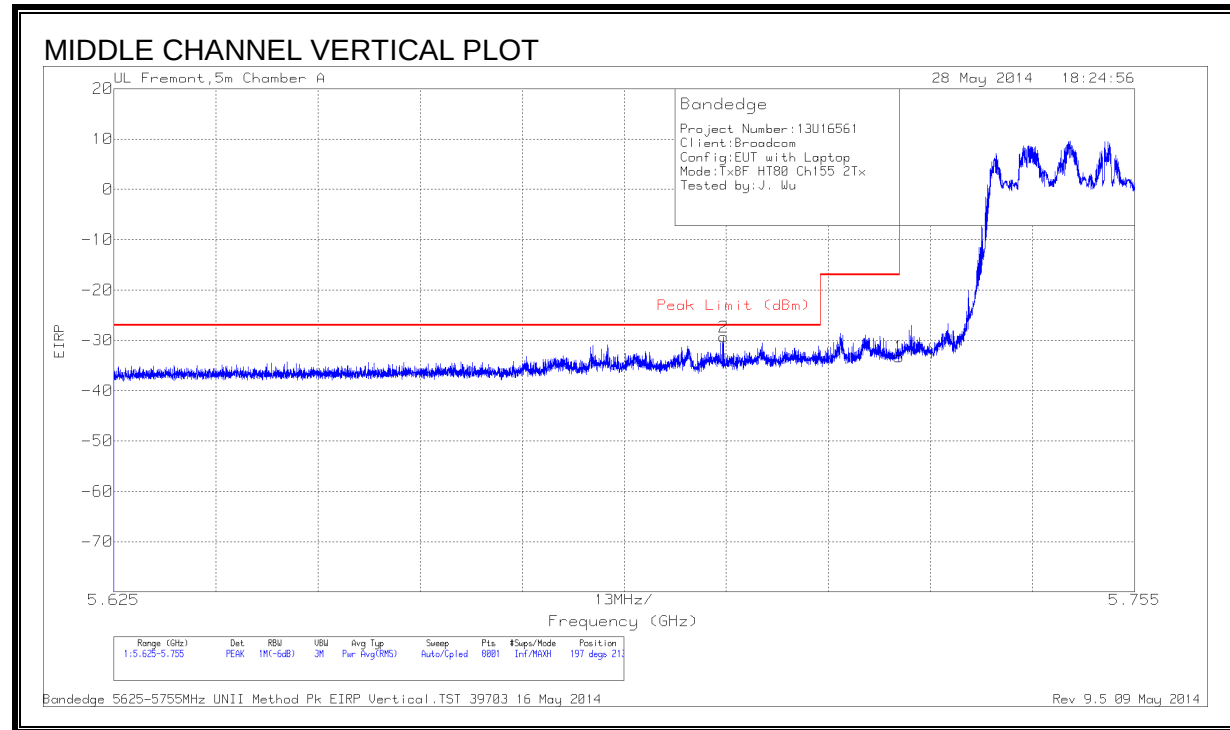
9.34 TX ABOVE 1 GHz 802.11ac VHT80 BF 2TX MODE IN THE 5.8 GHz BAND

RESTRICTED BANDEDGE (LOW EDGE)



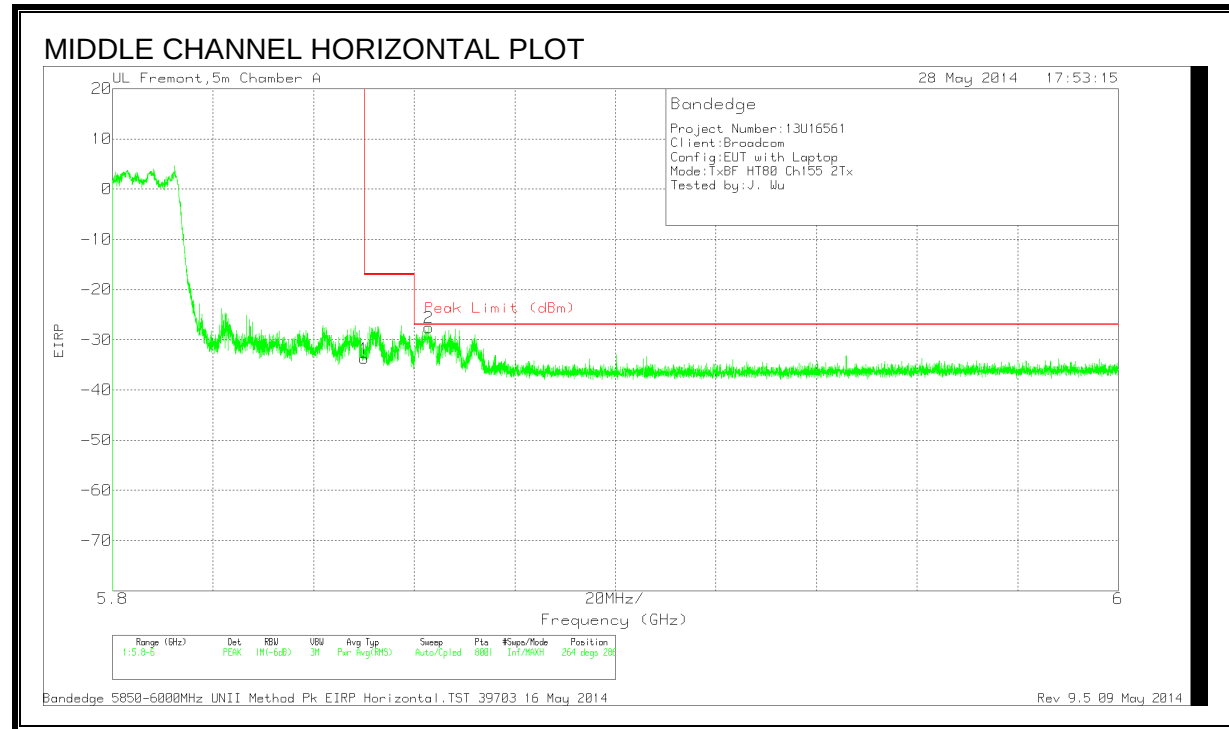
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.712	-91.01	PK	34.5	9.5	11.8	6	-29.21	-27	-2.21	86	368	H
1	5.725	-94.34	PK	34.6	9.6	11.8	6	-32.34	-17	-15.34	86	368	H

PK - Peak detector



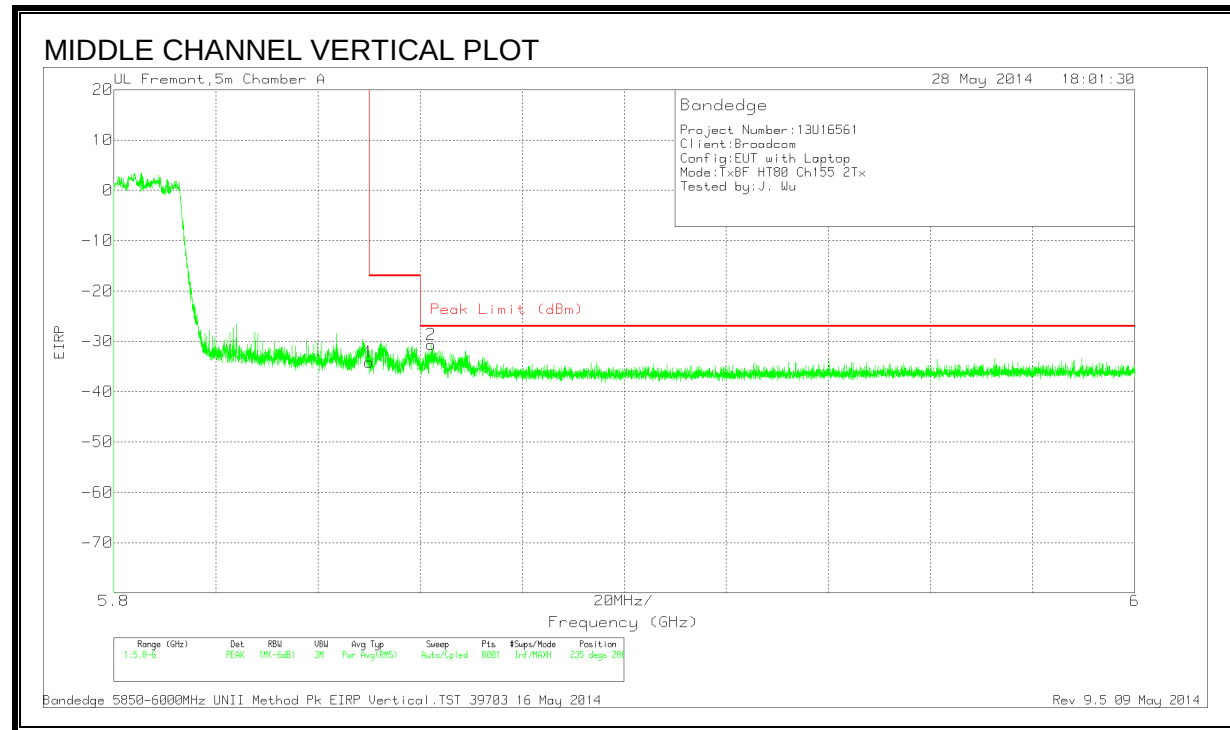
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.703	-91.16	PK	34.5	9.5	11.8	6	-29.36	-27	-2.36	197	213	V
1	5.725	-95.25	PK	34.6	9.6	11.8	6	-33.25	-17	-16.25	197	213	V

PK - Peak detector

RESTRICTED BANDEGE (HIGH EDGE)

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-96.16	PK	34.9	9.7	11.8	6	-33.76	-17	-16.76	264	286	H
2	5.863	-90.01	PK	34.9	9.7	11.8	6	-27.61	-27	-.61	264	286	H

PK - Peak detector

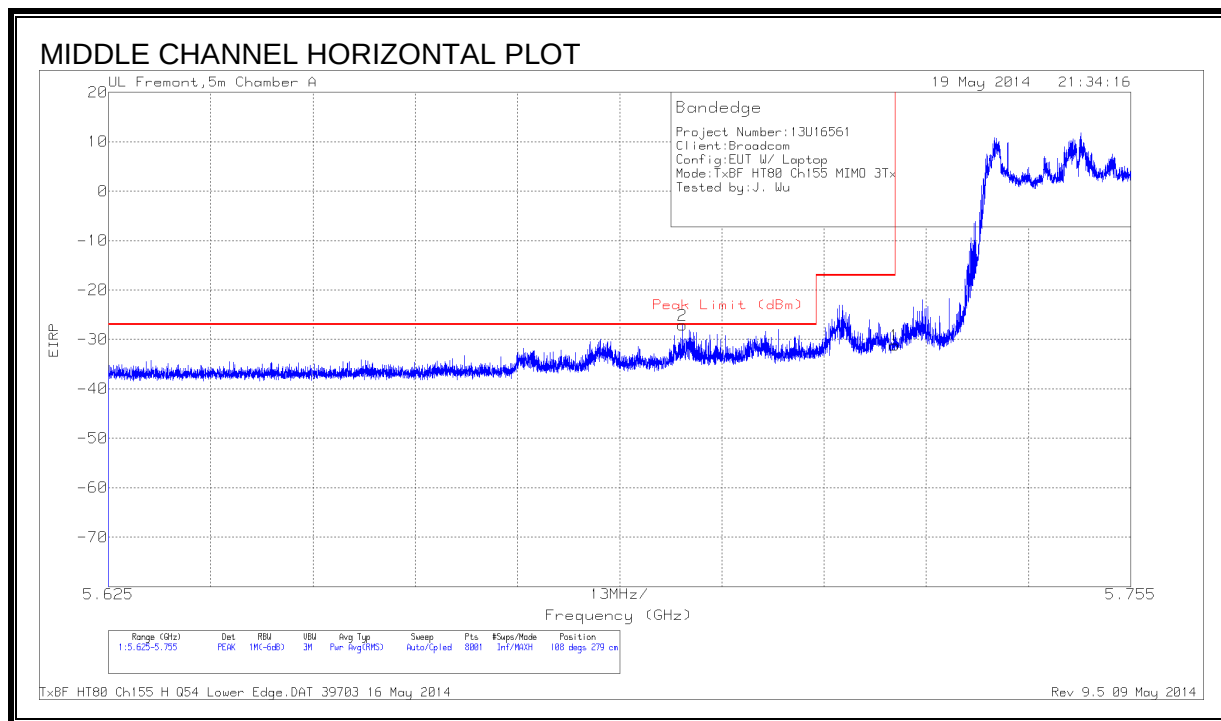


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-96.52	PK	34.9	9.7	11.8	6	-34.12	-17	-17.12	235	286	V
2	5.862	-93.04	PK	34.9	9.7	11.8	6	-30.64	-27	-3.64	235	286	V

PK - Peak detector

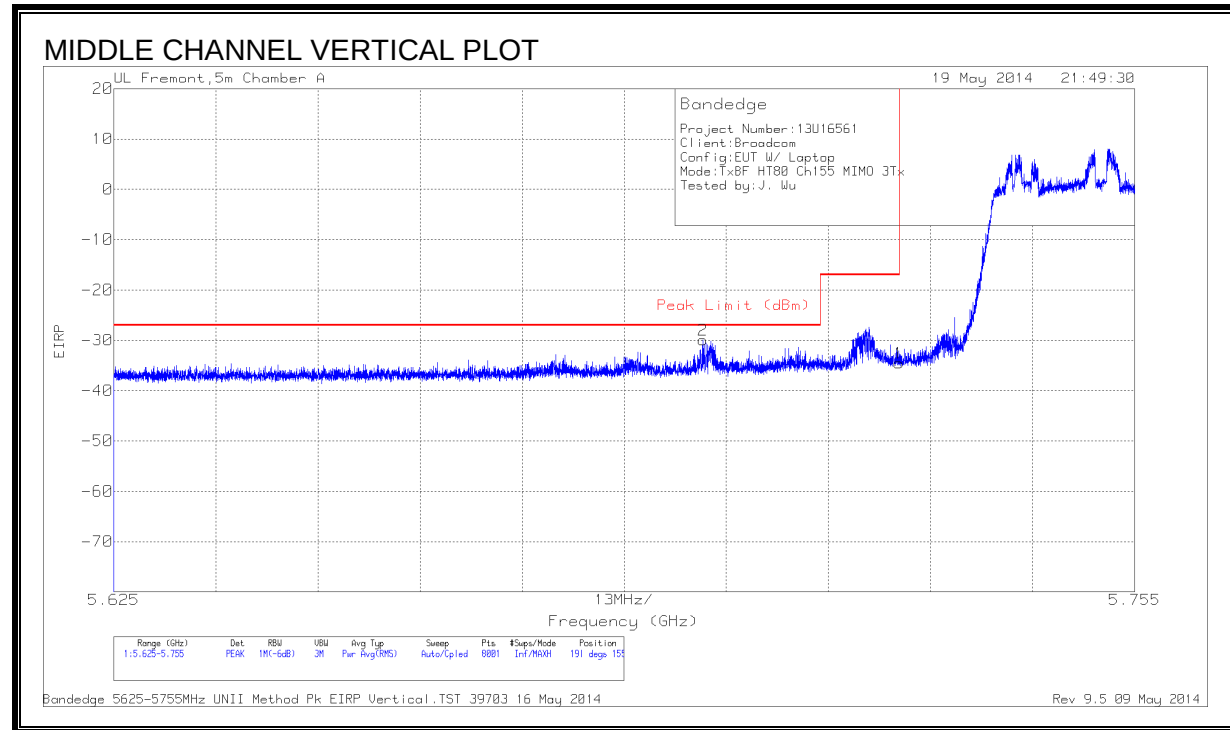
9.35 TX ABOVE 1 GHz 802.11ac VHT80 BF 3TX MODE IN THE 5.8 GHz BAND

RESTRICTED BANDEDGE (LOW EDGE)



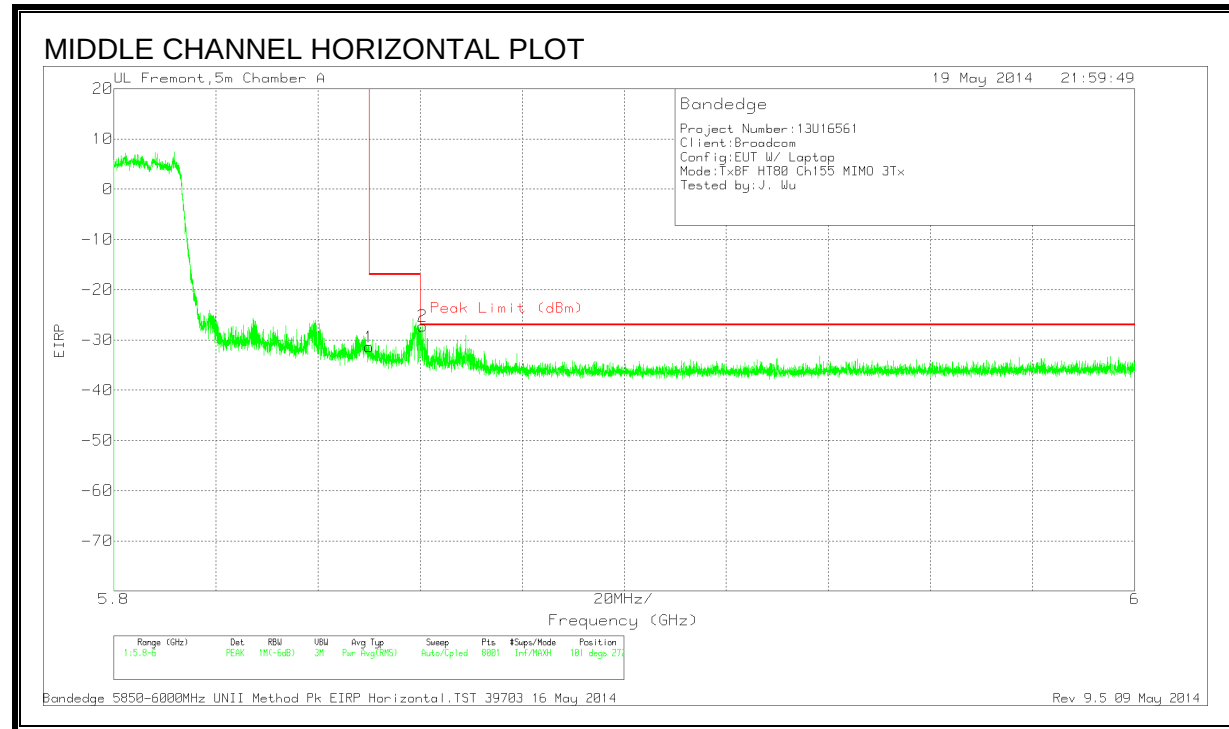
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.698	-88.94	PK	34.5	9.5	11.8	6	-27.14	-27	-14	108	279	H
1	5.725	-93.14	PK	34.6	9.6	11.8	6	-31.14	-17	-14.14	108	279	H

PK - Peak detector



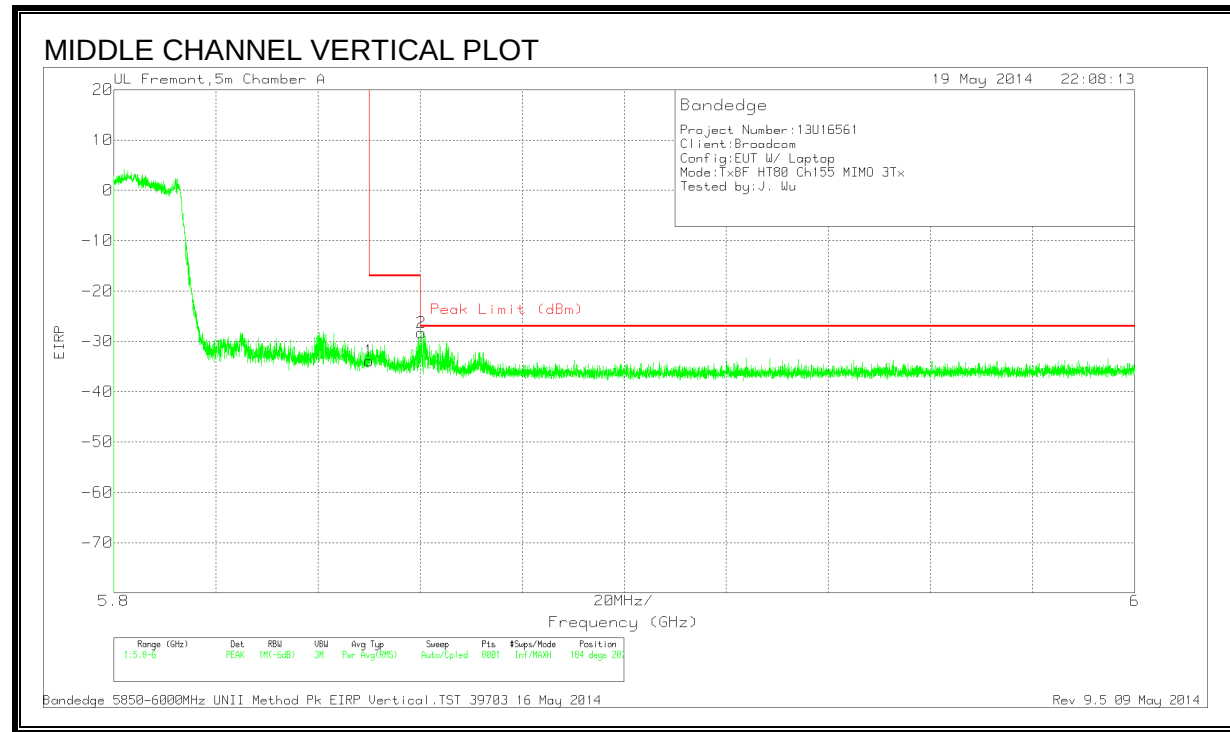
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.7	-91.74	PK	34.5	9.5	11.8	6	-29.94	-27	-2.94	191	155	V
1	5.725	-96.53	PK	34.6	9.6	11.8	6	-34.53	-17	-17.53	191	155	V

PK - Peak detector

RESTRICTED BANDEDGE (HIGH EDGE)

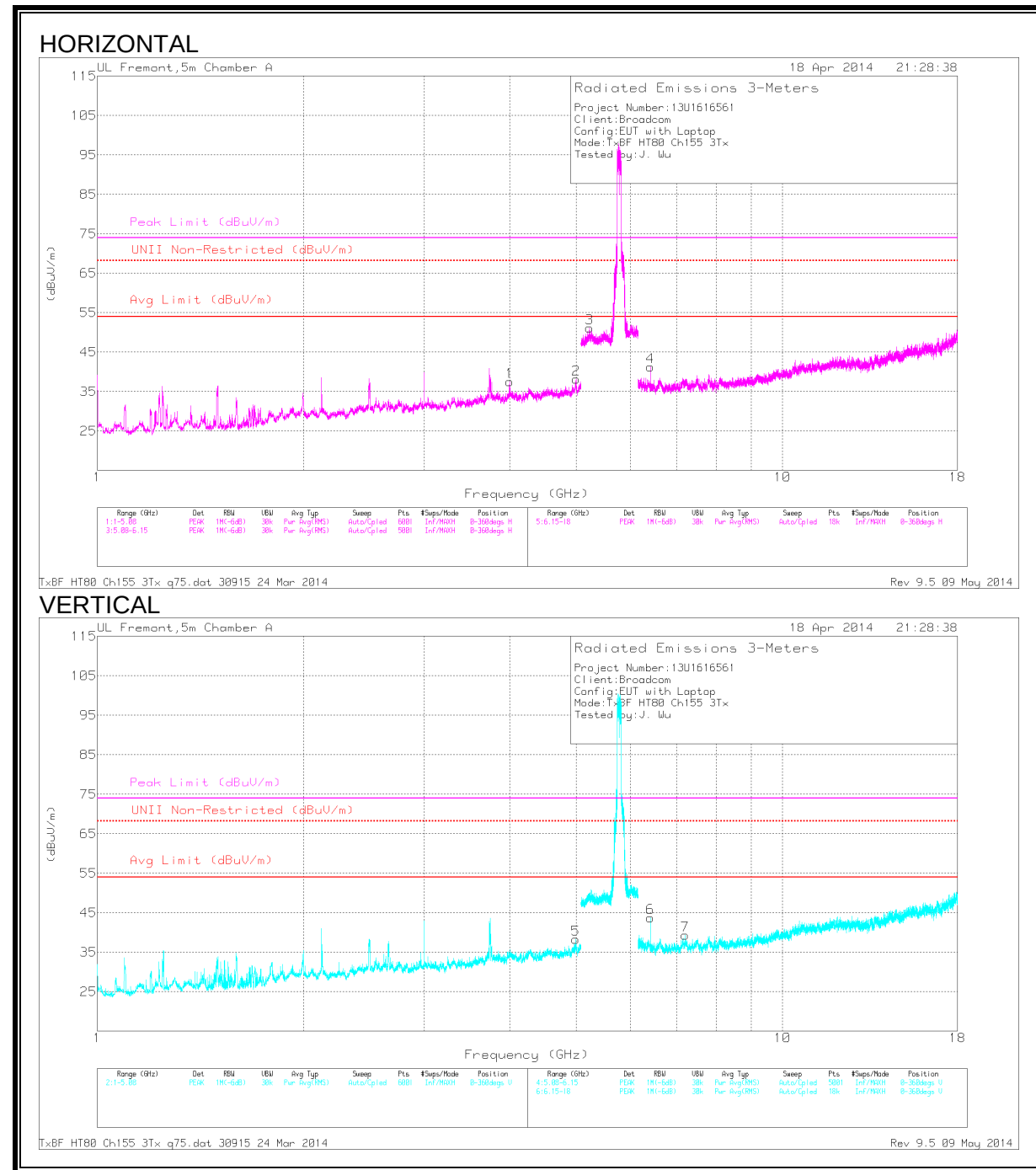
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-93.8	PK	34.9	9.7	11.8	6	-31.4	-17	-14.4	101	272	H
2	5.861	-89.63	PK	34.9	9.7	11.8	6	-27.23	-27	-23	101	272	H

PK - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Bypass (dB)	Conversion Factor (dB)	Pad	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-96.28	PK	34.9	9.7	11.8	6	-33.88	-17	-16.88	184	207	V
2	5.86	-90.69	PK	34.9	9.7	11.8	6	-28.29	-27	-1.29	184	207	V

PK - Peak detector

HARMONICS AND SPURIOUS EMISSIONS**MID CHANNEL**

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.991	37.95	PK1	33.7	-29.9	0	41.75	-	-	74	-32.25	-	-	317	131	H
	* 3.991	27.76	AD1	33.7	-29.9	5.5	37.06	54	-16.94	-	-	-	-	317	131	H
2	* 4.987	37.82	PK1	33.9	-28.6	0	43.12	-	-	74	-30.88	-	-	10	135	H
	* 4.993	28.04	AD1	33.9	-28.6	5.5	38.84	54	-15.16	-	-	-	-	10	135	H
5	* 4.992	38.33	PK1	33.9	-28.6	0	43.63	-	-	74	-30.37	-	-	96	310	V
	* 4.991	28.24	MAv1	33.9	-28.6	5.5	39.04	54	-14.96	-	-	-	-	96	310	V
3	5.231	44.1	PK1	34.2	-20	0	58.3	-	-	-	-	68.2	-9.9	170	157	H
4	6.417	43.13	PK1	35.5	-27.8	0	50.83	-	-	-	-	68.2	-17.37	98	351	H
6	6.417	42.07	PK1	35.5	-27.8	0	49.77	-	-	-	-	68.2	-18.43	128	203	V
7	7.235	36.35	PK1	35.2	-25.1	0	46.45	-	-	-	-	68.2	-21.75	135	251	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

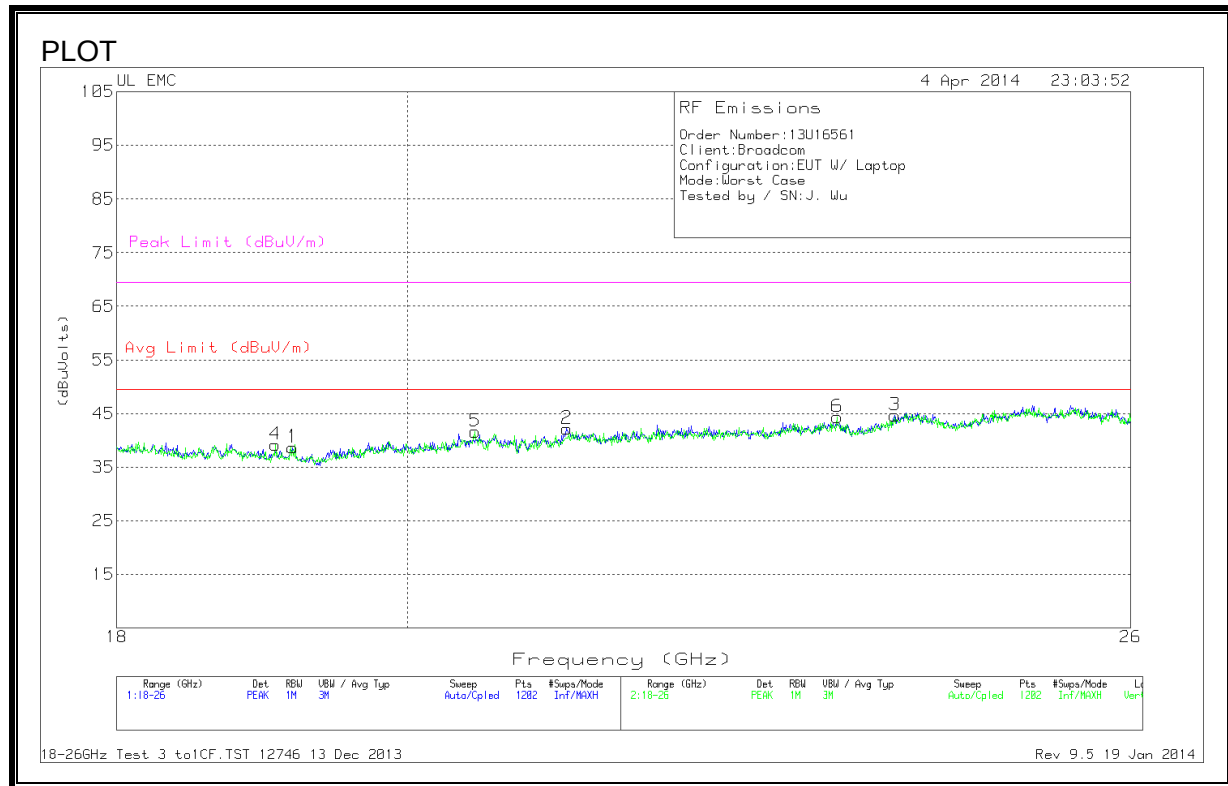
PK – Peak detector

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

9.36 WORST-CASE 18-26 GHz

HARMONICS AND SPURIOUS EMISSIONS



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T89 (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	19.186	39.17	PK	32.5	-23.5	-9.5	38.67	54	-15.33	74	-35.33
2	21.191	42.17	PK	33	-23.5	-9.5	42.17	54	-11.83	74	-31.83
3	23.868	43.07	PK	33.7	-22.6	-9.5	44.67	54	-9.33	74	-29.33
4	19.066	40.27	PK	32.5	-24.1	-9.5	39.17	54	-14.83	74	-34.83
5	20.498	42.27	PK	32.8	-23.9	-9.5	41.67	54	-12.33	74	-32.33
6	23.376	43.23	PK	33.4	-22.8	-9.5	44.33	54	-9.67	74	-29.67

PK - Peak detector

9.37 WORST-CASE 26-40 GHz

HARMONICS AND SPURIOUS EMISSIONS



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	32.518	47.67	PK	36.2	-35.7	-9.5	38.67	54	-15.33	74	-35.33
2	33.117	48.43	PK	36.8	-36.4	-9.5	39.33	54	-14.67	74	-34.67
3	35.401	49.4	PK	37.8	-37.7	-9.5	40	54	-14.00	74	-34.00
4	27.764	45.77	PK	35.8	-34.4	-9.5	37.67	54	-16.33	74	-36.33
5	30.856	46.97	PK	36	-35.8	-9.5	37.67	54	-16.33	74	-36.33
6	37.125	49.3	PK	37.2	-37.5	-9.5	39.5	54	-14.50	74	-34.50

PK - Peak detector

9.38 WORST-CASE BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)

Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 133	55.3	PK	13.8	-30.4	38.7	43.52	-4.82	304	199	H
* 133.0766	54.3	QP	13.8	-30.4	37.7	43.52	-5.82	304	199	H
* 133.0766	49.69	PK	13.8	-30.4	33.09	43.52	-10.43	202	256	V
* 133.0806	48.4	QP	13.8	-30.4	31.8	43.52	-11.72	202	256	V
398.795	39.96	PK	15.6	-28.9	26.66	46.02	-19.36	87	225	V
398.8195	40.53	QP	15.6	-28.9	27.23	46.02	-18.79	87	225	V
398.9395	44.18	PK	15.6	-28.9	30.88	46.02	-15.14	313	101	H
398.9405	46.1	QP	15.6	-28.9	32.8	46.02	-13.22	313	101	H
698.1742	42.09	QP	20.3	-28.3	34.09	46.02	-11.93	177	112	H
698.27	43.62	PK	20.3	-28.3	35.62	46.02	-10.4	177	112	H
698.6088	39.62	QP	20.3	-28.3	31.62	46.02	-14.4	17	116	V
698.6342	39.92	PK	20.3	-28.3	31.92	46.02	-14.1	17	116	V

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 7.2.2

NCC LP0002 §2.3

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

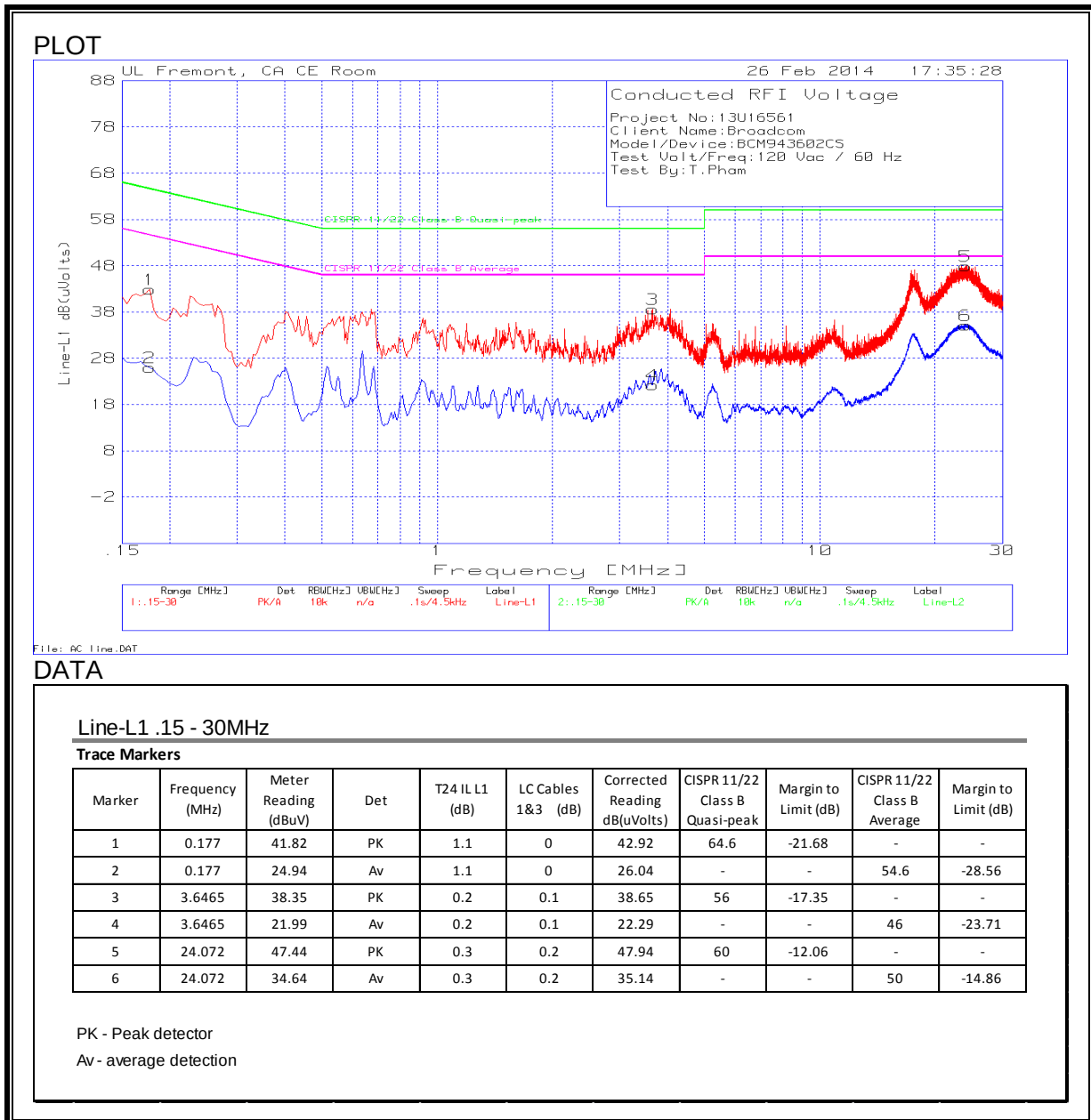
The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

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

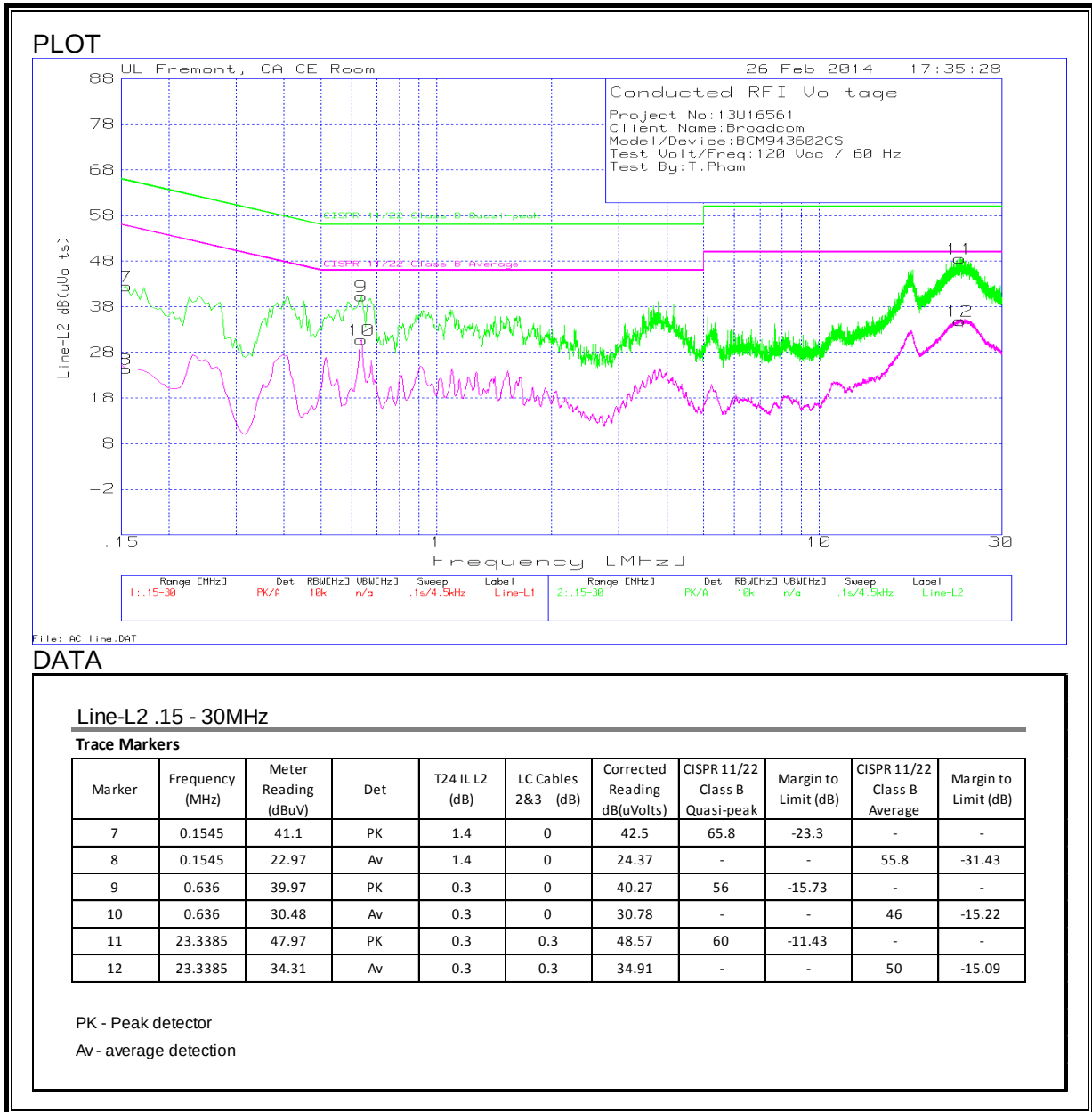
Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

LINE 1 RESULTS



LINE 2 RESULTS



12. APPENDIX A REGRESSION DATA FOR DRIVER 7.16.27.0

12.1. SOFTWARE AND FIRMWARE

The EUT driver software installed during testing was 7.16.27.0

The test utility software used during testing was 7.16.RC27.0

12.2. REGRESSION DATA FOR MODULE P374

12.2.1. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

LIMITS

None; for reporting purposes only.

PROCEDURE

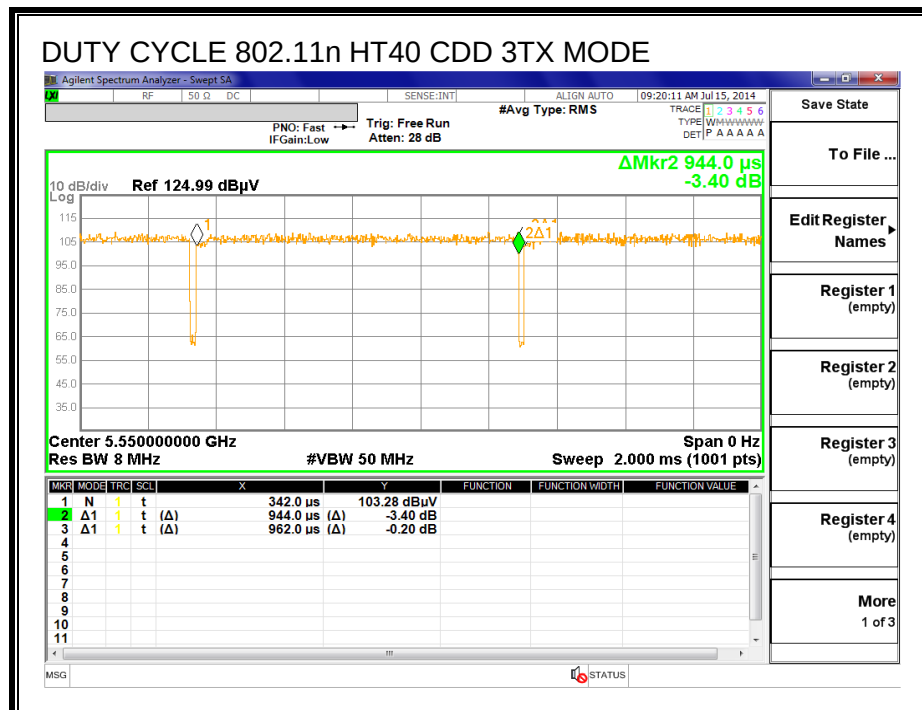
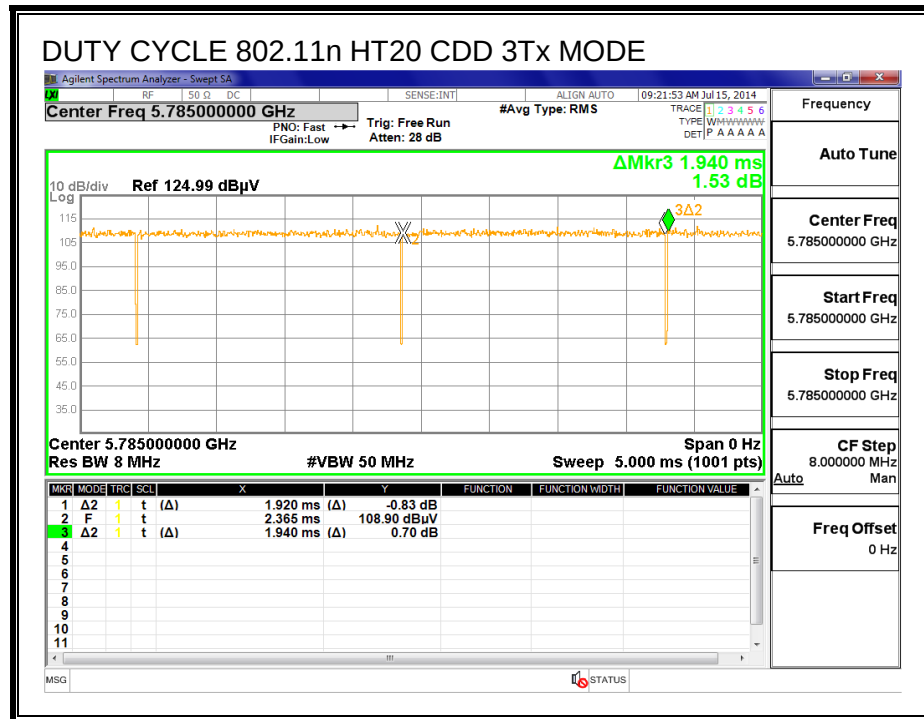
KDB 558074 Zero-Span Spectrum Analyzer Method.

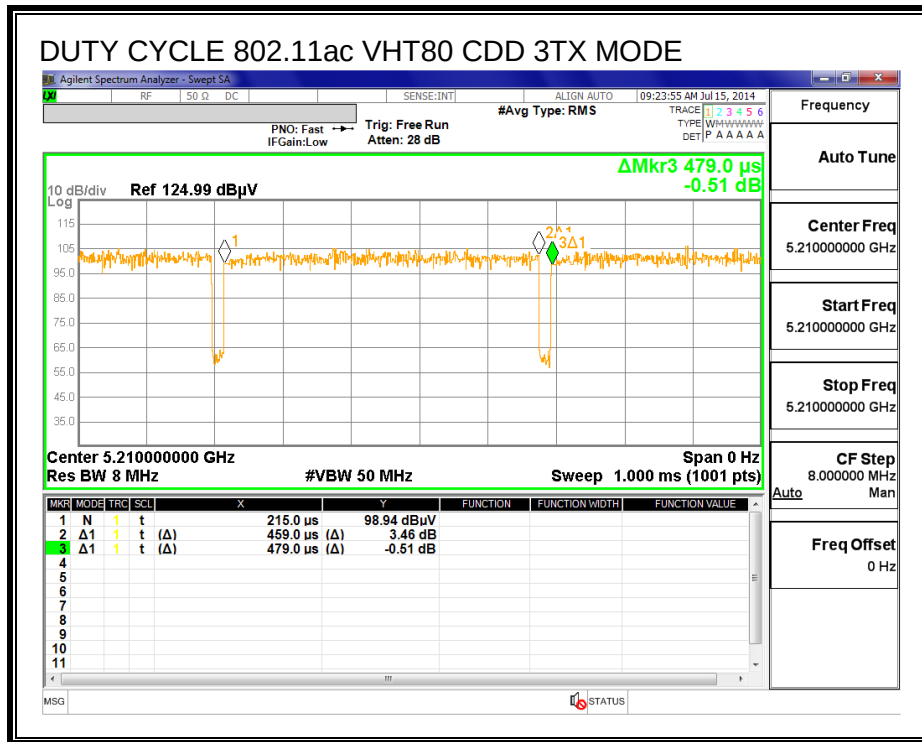
ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
5GHz Band						
802.11n HT20 CDD 3Tx	1.920	1.940	0.990	98.97%	0.00	0.010
802.11n HT40 CDD 3Tx	0.944	0.962	0.981	98.13%	0.00	0.010
802.11ac VHT80 CDD 3Tx	0.459	0.479	0.958	95.82%	0.19	2.179

DUTY CYCLE PLOTS

5 GHz BAND





12.2.2. ANTENNA PORT TEST RESULTS

12.2.2.1. 802.11ac VHT80 CDD 3TX MODE IN THE 5.2 GHz BAND

OUTPUT POWER AND PPSD

LIMITS

FCC §15.407 (a) (1)

For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
7.04	6.70	3.79	6.07

For PPSD the TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
7.04	6.70	3.79	10.73

RESULTS

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Mid	5210	N/A	N/A	6.07	10.73

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Mid	5210	23.93	N/A	N/A	23.93	6.27	N/A	N/A

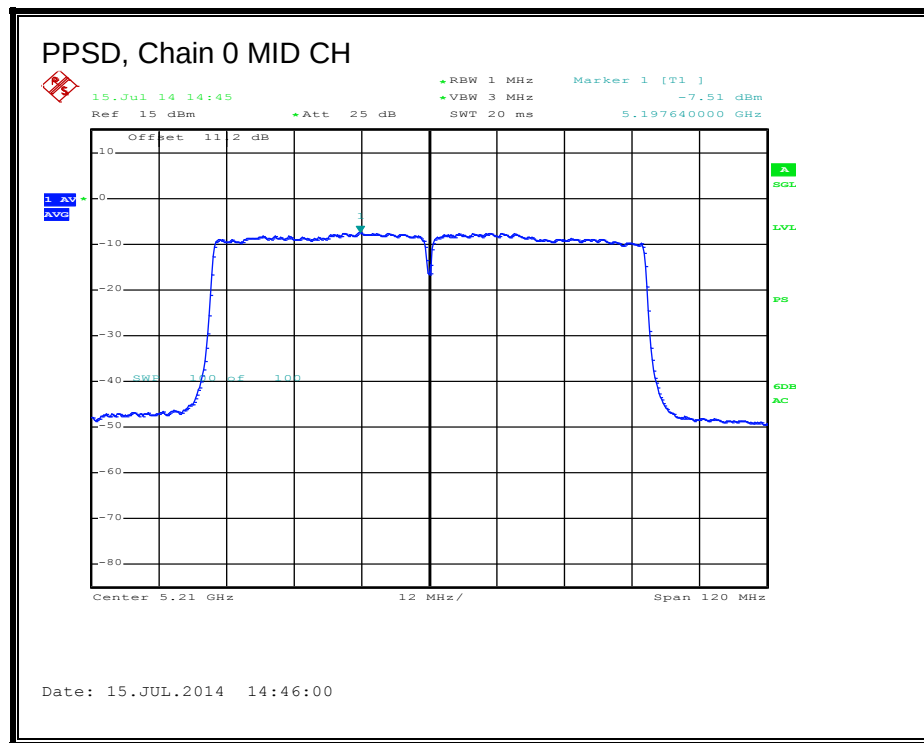
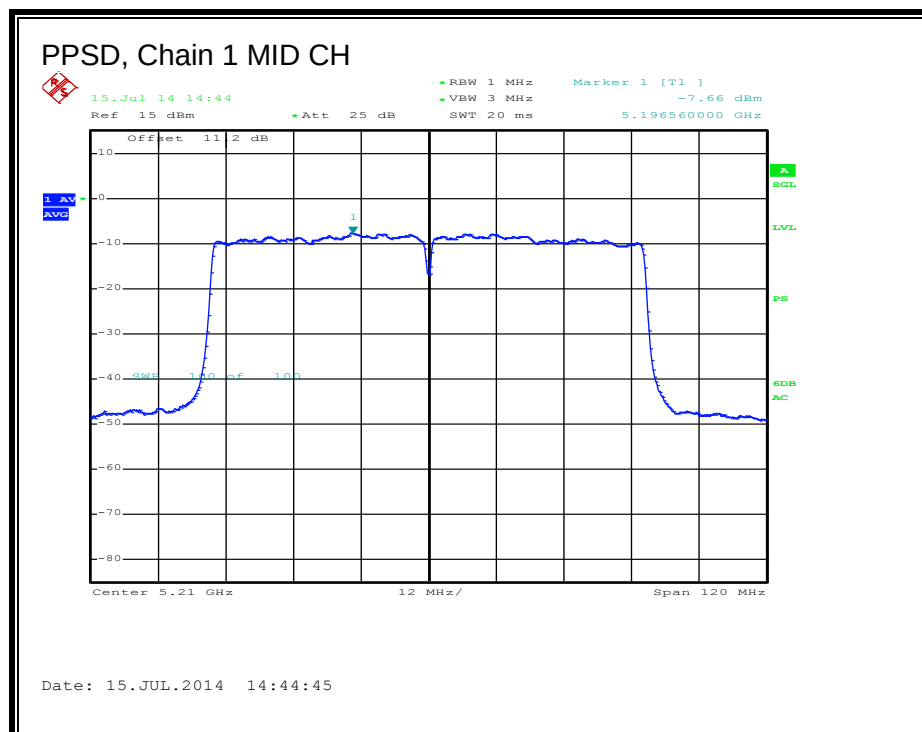
Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd PPSD
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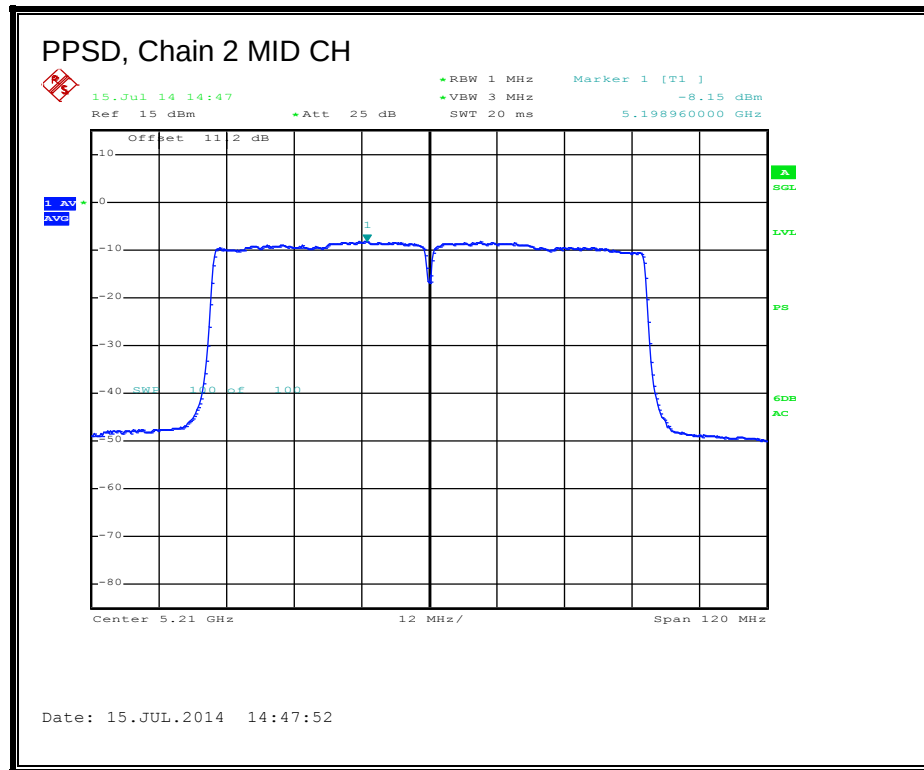
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	12.70	12.50	12.20	17.24	23.93	-6.69

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Chain 2 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Mid	5210	-7.51	-7.66	-8.15	-2.80	6.27	-9.07

PPSD, Chain 0**PPSD, Chain 1**

PPSD, Chain 2

12.2.2.2. 802.11ac VHT80 CDD 3TX MODE IN THE 5.3 GHz BAND

OUTPUT POWER AND PPSD

LIMITS

FCC §15.407 (a) (2)

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
7.09	7.06	3.58	6.19

For PPSD, the TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
7.09	7.06	3.58	10.83

RESULTS

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Mid	5290	81.17	75.4236	6.19	10.83

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Mid	5290	23.81	24.00	30.00	23.81	6.17	11.00	6.17

Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd PPSD
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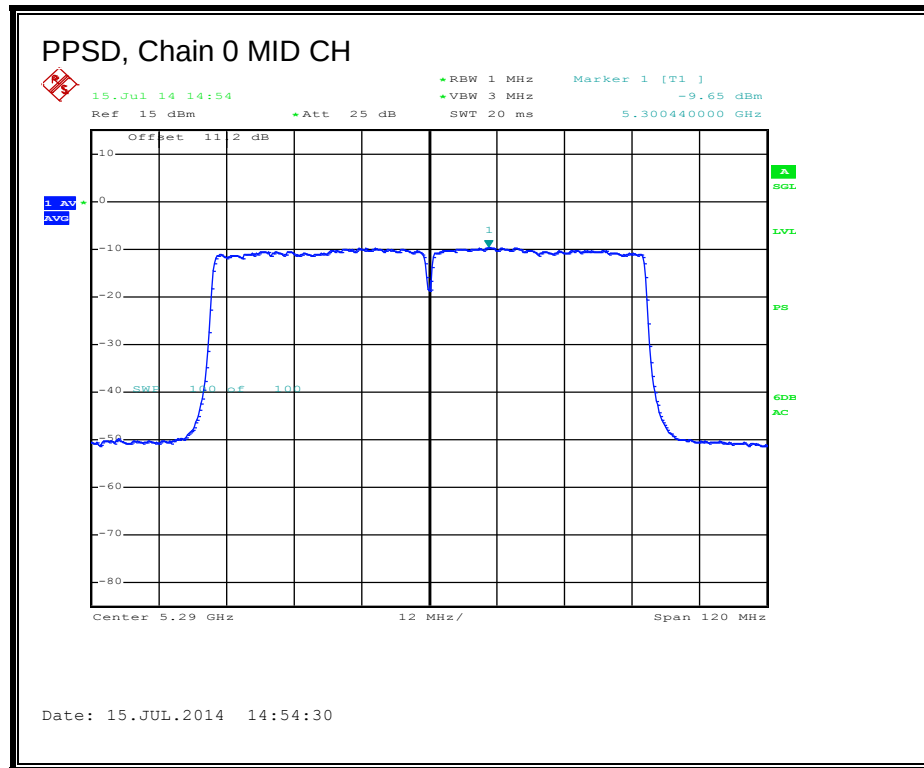
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	11.60	11.50	11.40	16.27	23.81	-7.54

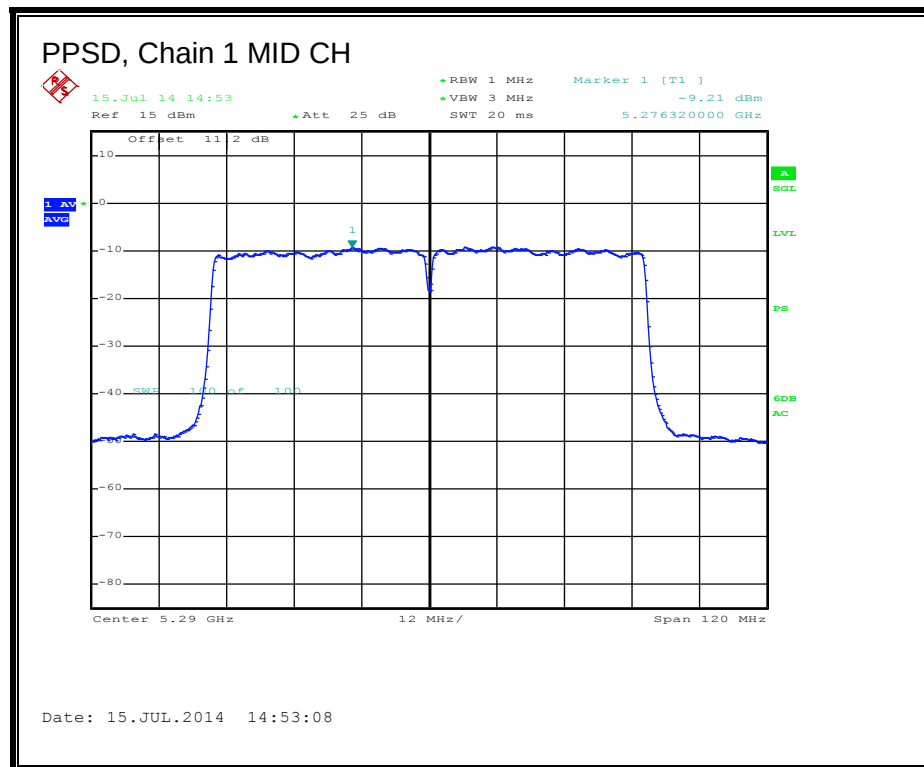
PPSD Results

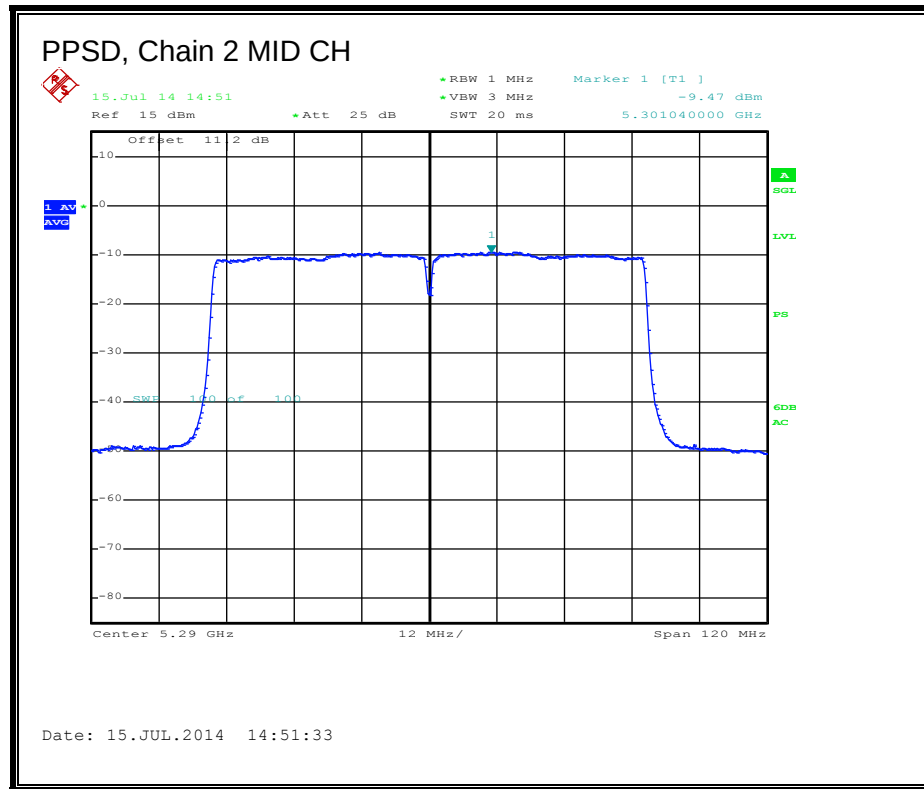
Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Chain 2 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Mid	5290	-9.65	-9.21	-9.47	-4.48	6.17	-10.65

PPSD, Chain 0



PPSD, Chain 1



PPSD, Chain 2

12.2.2.3. 802.11n HT40 CDD 3TX MODE IN THE 5.6 GHz BAND

OUTPUT POWER AND PPSD

LIMITS

IC RSS-210 A9.2 (3)

FCC §15.407 (a) (2)

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

For output power the TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
5.03	6.66	3.94	5.36

For PPSD, the TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
5.03	6.66	3.94	10.05

RESULTS

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Mid	5550	88.625	44.380	5.36	10.05

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Mid	5550	24.00	24.00	30.00	24.00	6.95	11.00	6.95

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PPSD
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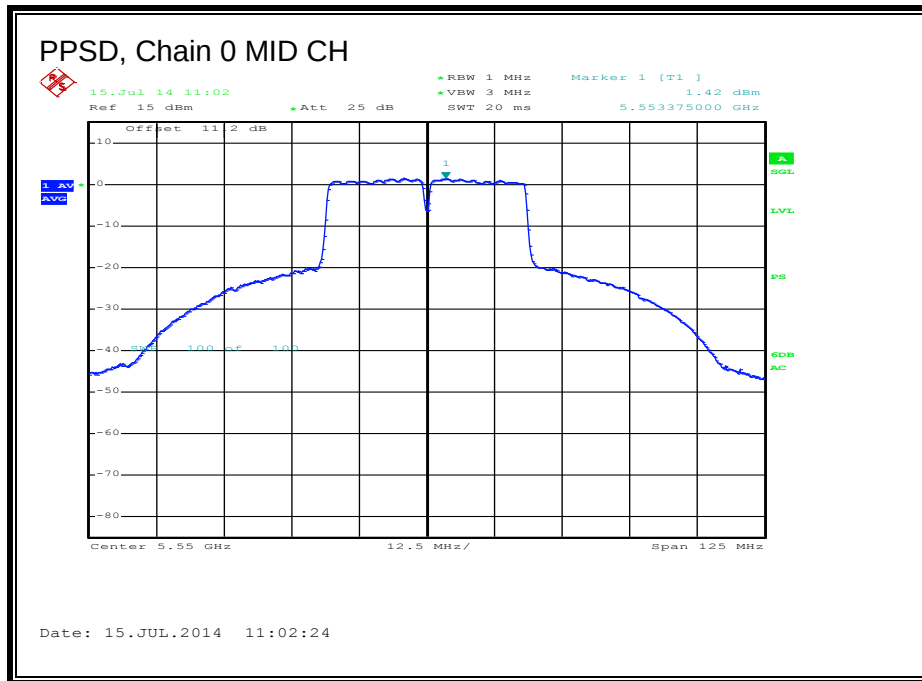
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5550	19.00	19.10	19.00	23.80	24.00	-0.20

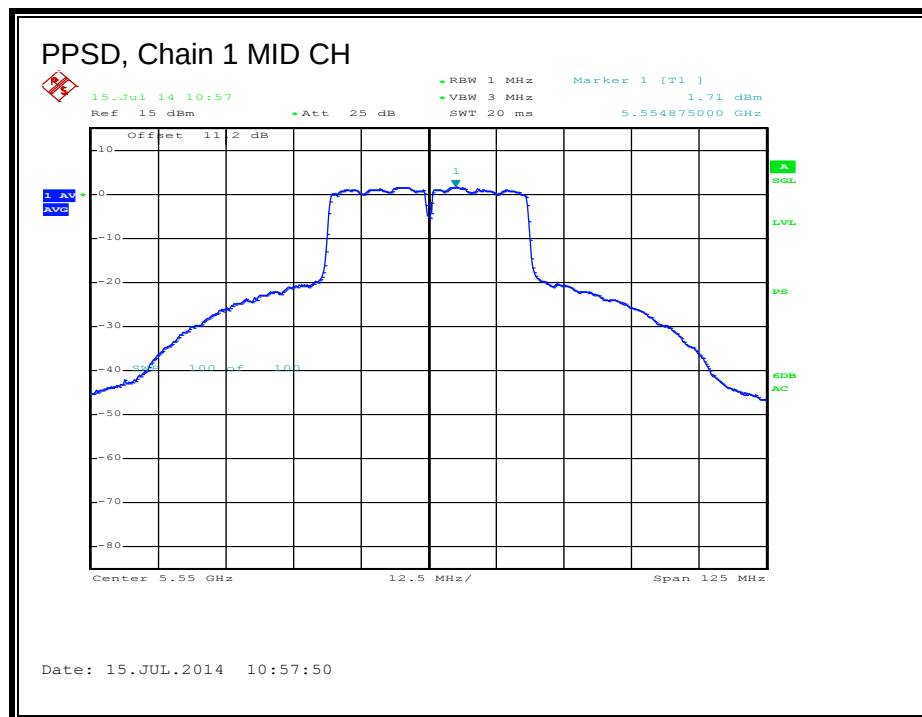
PPSD Results

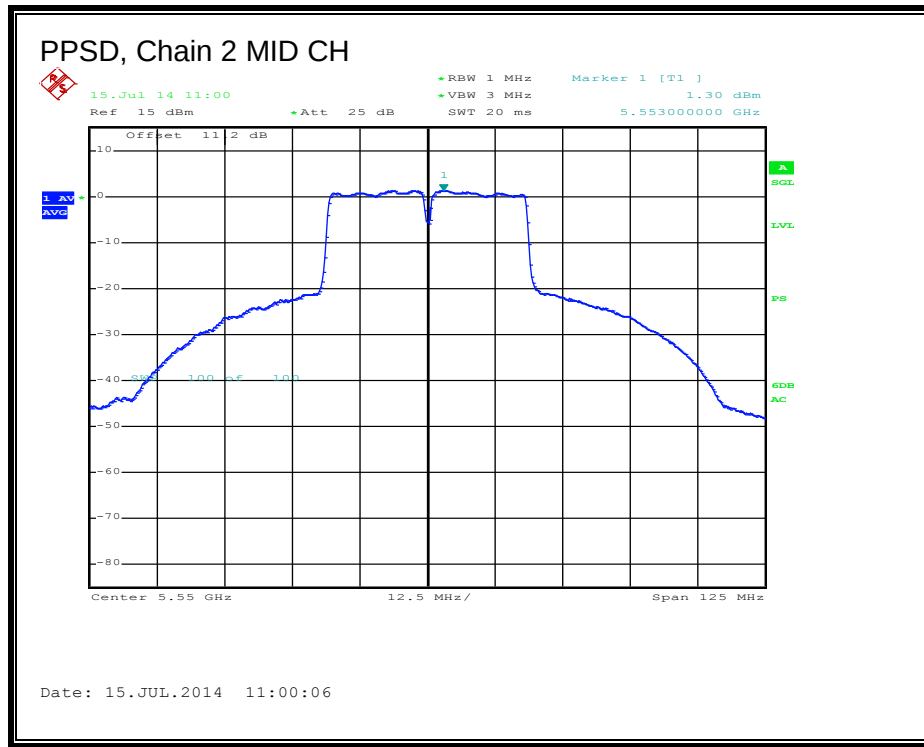
Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Chain 2 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Mid	5550	1.42	1.71	1.30	6.25	6.95	-0.70

PPSD, Chain 0



PPSD, Chain 1



PPSD, Chain 2

12.2.2.4. 802.11ac VHT80 CDD 3TX MODE IN THE 5.6 GHz BAND

26 dB BANDWIDTH

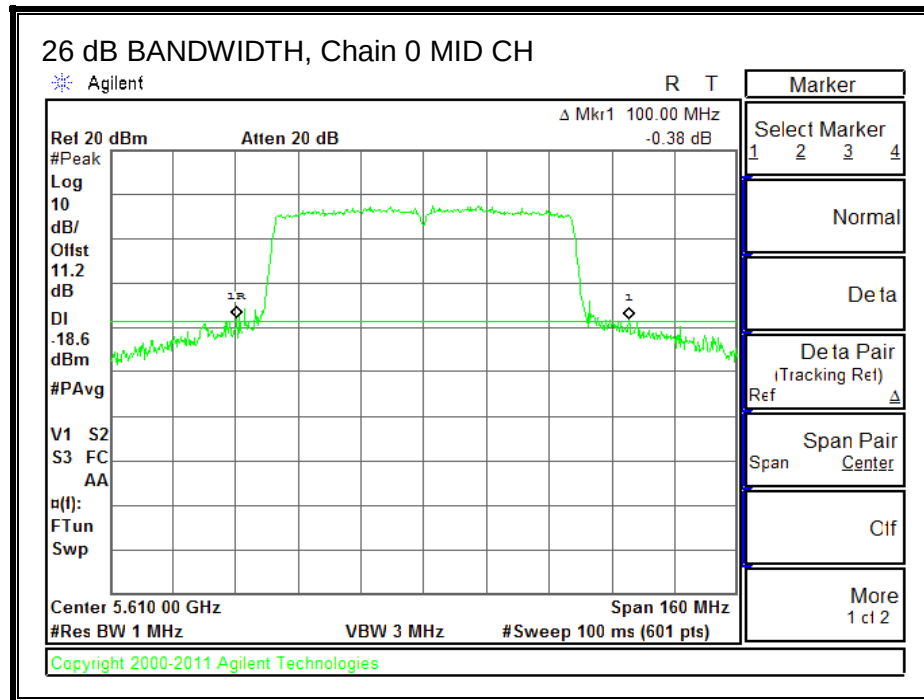
LIMITS

None; for reporting purposes only.

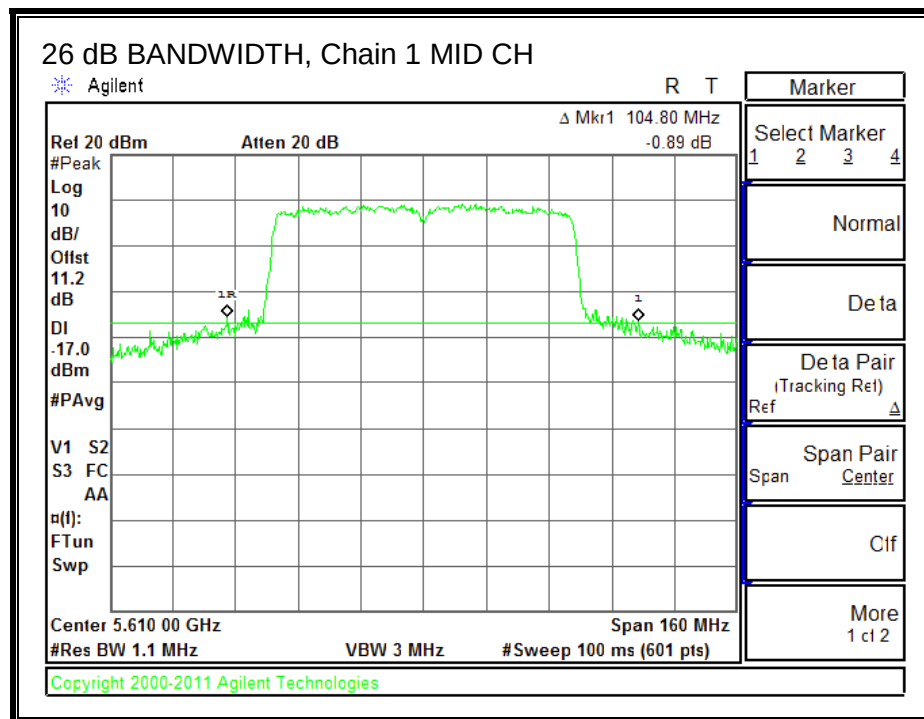
RESULTS

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)	26 dB BW Chain 2 (MHz)
MID	5610	100.00	104.80	100.53

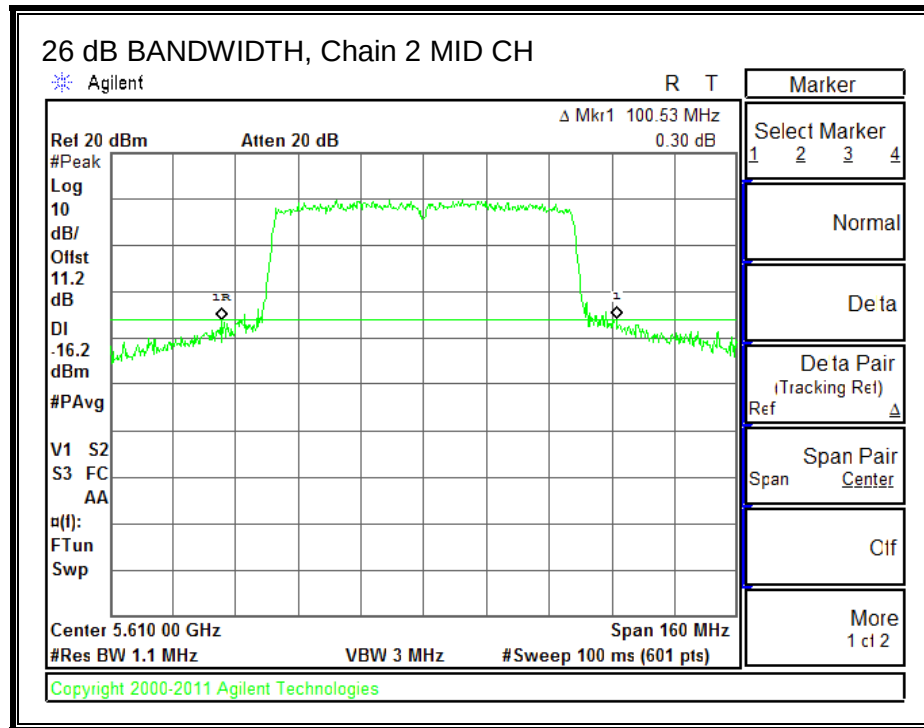
Chain 0



Chain 1



Chain 2



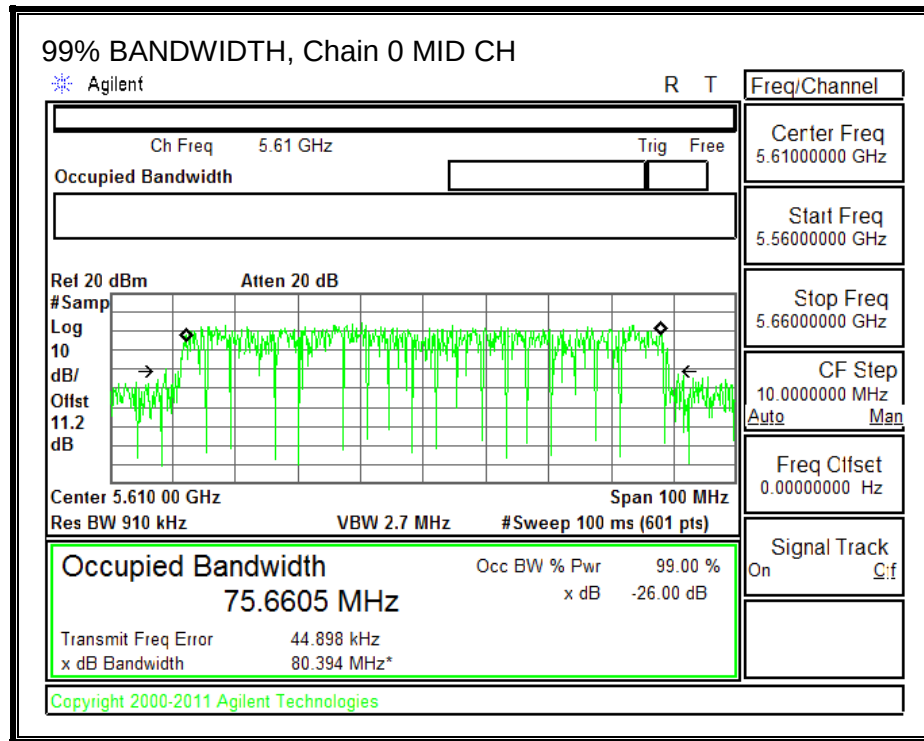
99% BANDWIDTH**LIMITS**

None; for reporting purposes only.

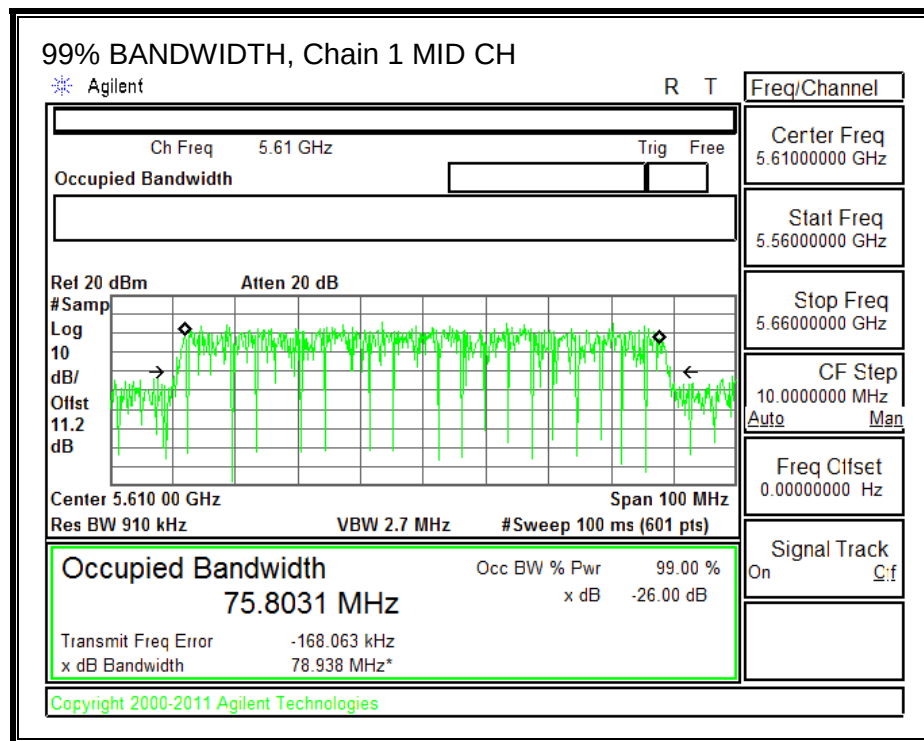
RESULTS

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)	99% BW Chain 2 (MHz)
MID	5610	75.6605	75.8031	75.4260

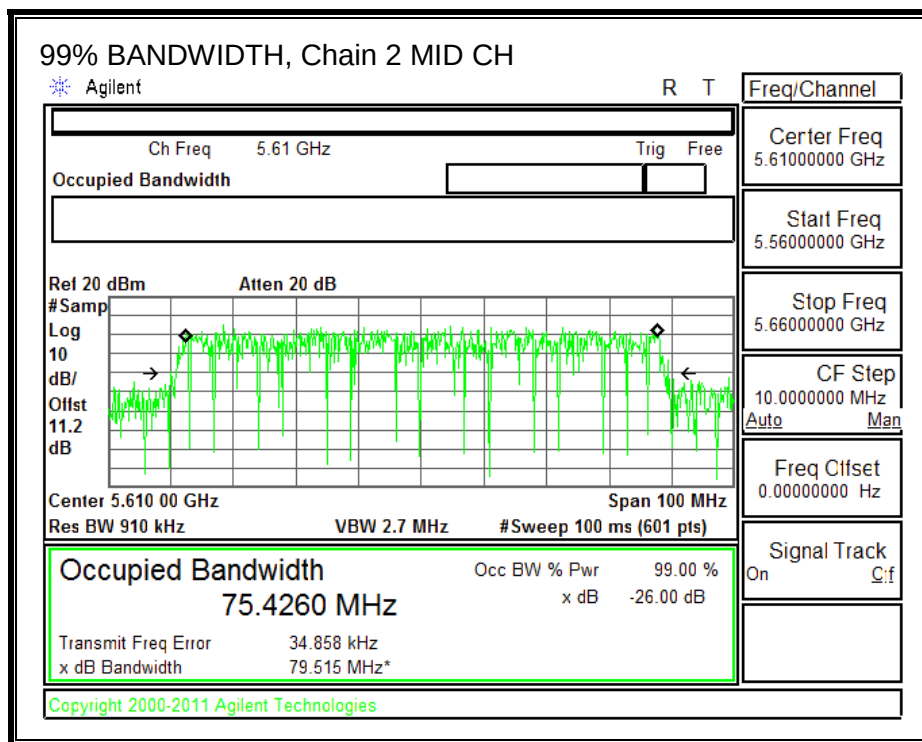
Chain 0



Chain 1



Chain 2



OUTPUT POWER AND PPSD

LIMITS

IC RSS-210 A9.2 (3)

FCC §15.407 (a) (2)

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

For output power the TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
5.03	6.66	3.94	5.36

For PPSD, the TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
5.03	6.66	3.94	10.05

RESULTS

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5530	82.06	75.524	5.36	10.05
Mid	5610	100.00	75.426	5.36	10.05

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5530	24.00	24.00	30.00	24.00	6.95	11.00	6.95
Mid	5610	24.00	24.00	30.00	24.00	6.95	12.00	6.95

Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd PPSP
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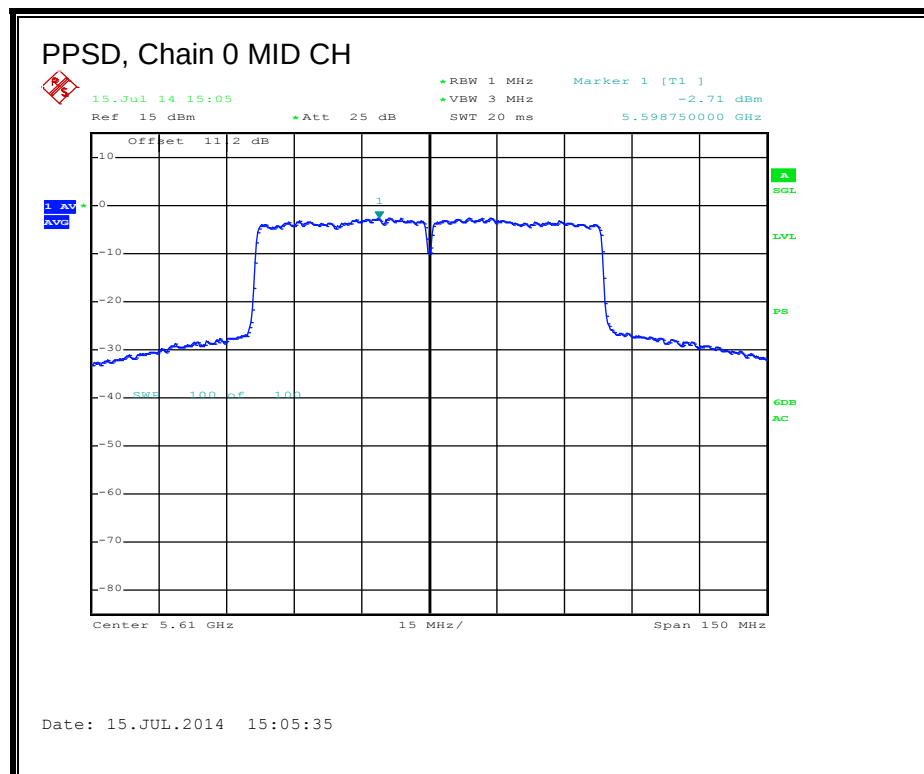
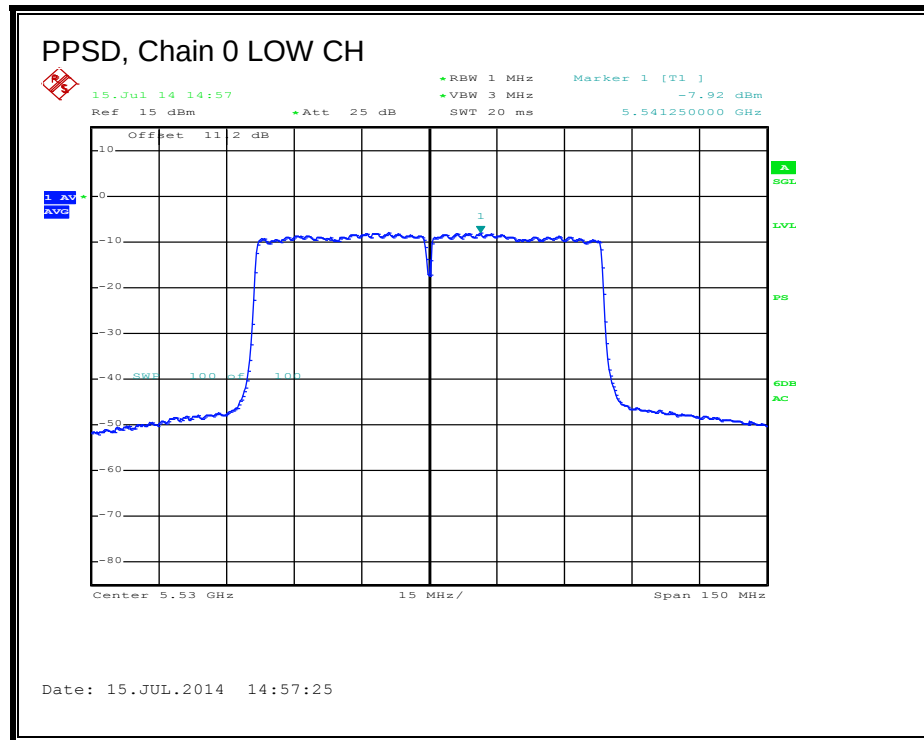
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	12.50	12.50	12.50	17.27	24.00	-6.73
Mid	5610	18.40	18.30	18.00	23.01	24.00	-0.99

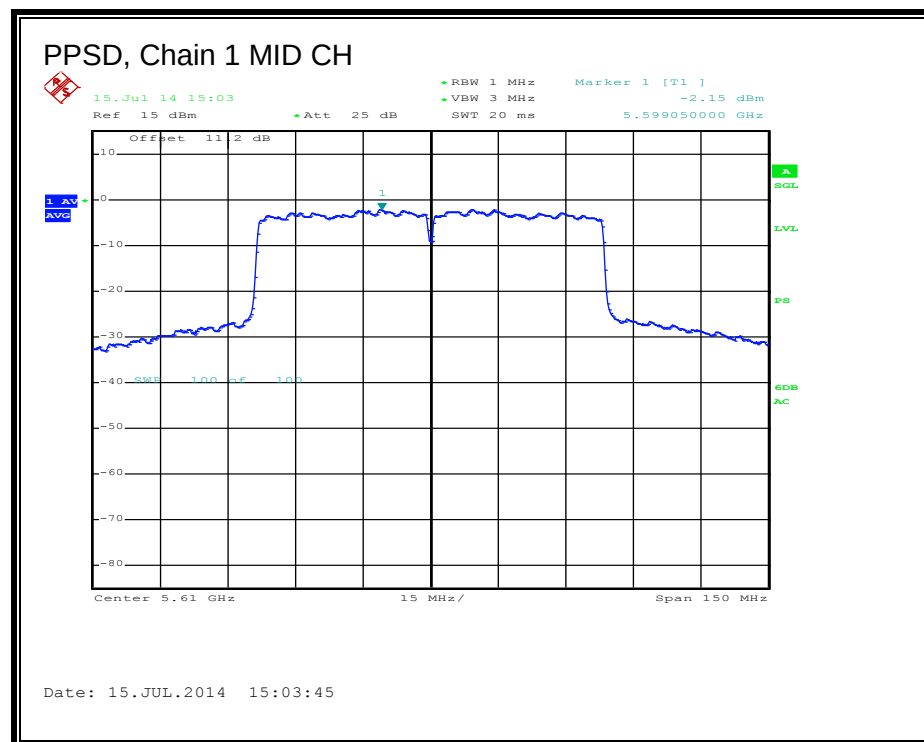
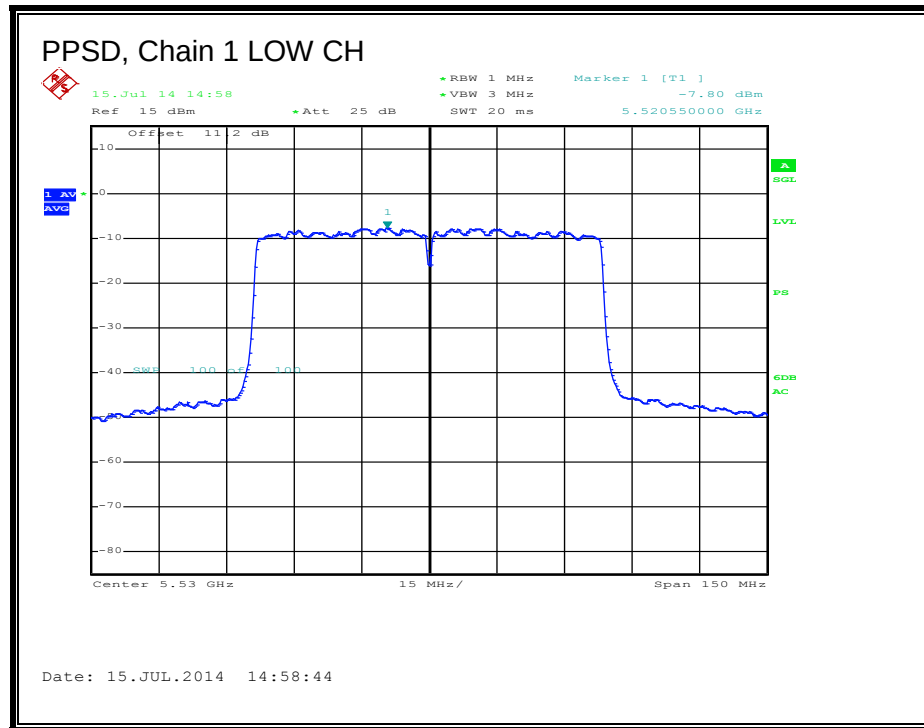
PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Chain 2 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5530	-7.92	-7.80	-7.71	-2.85	6.95	-9.80
Mid	5610	-2.71	-2.15	-2.34	2.57	6.95	-4.38

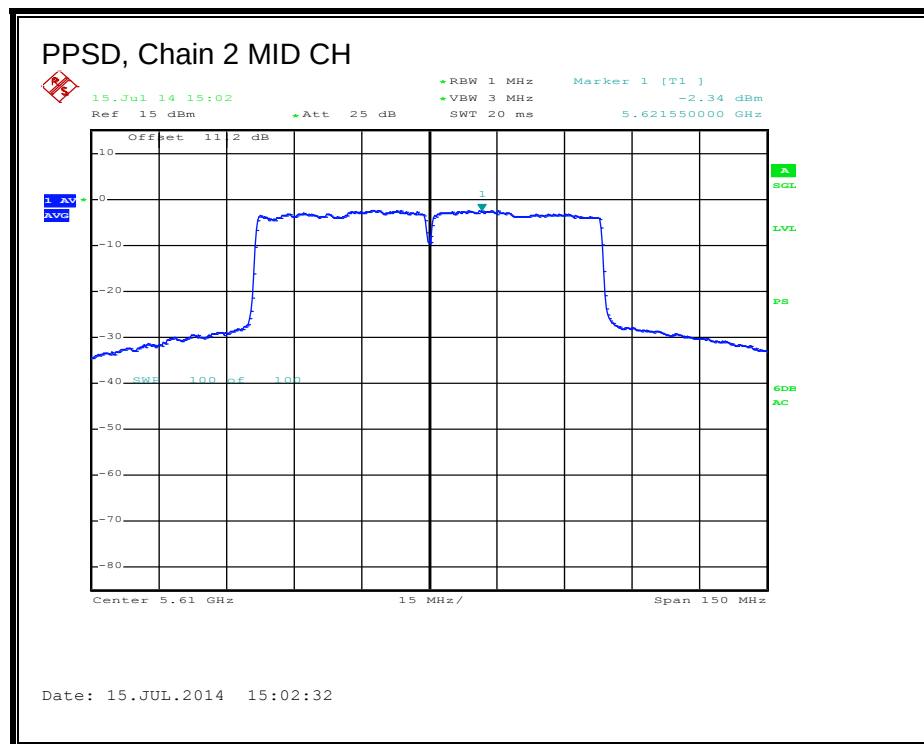
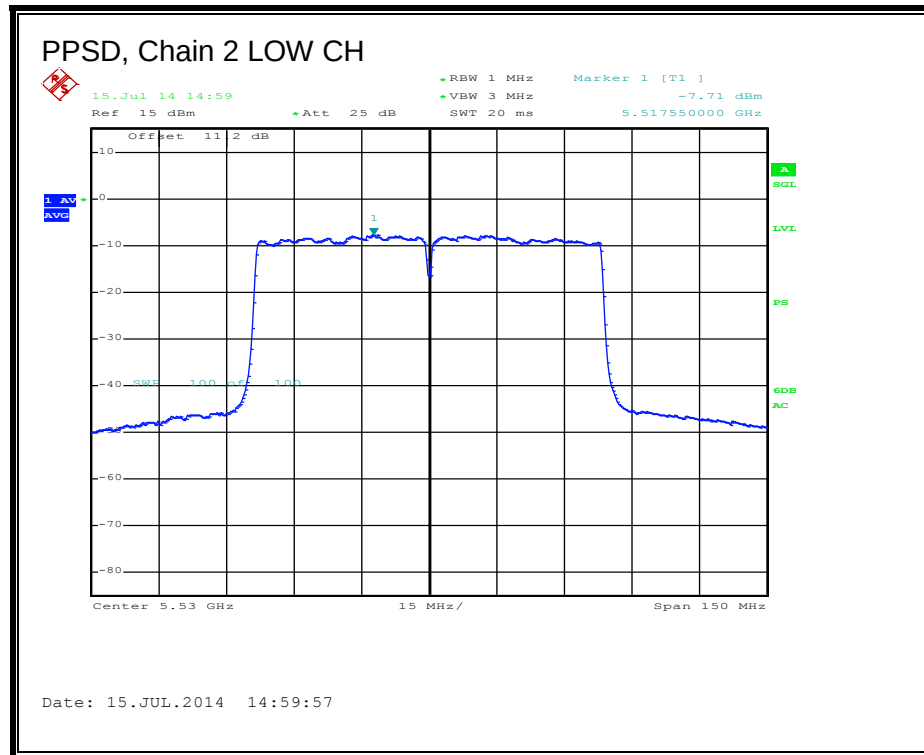
PPSD, Chain 0



PPSD, Chain 1



PPSD, Chain 2



12.2.2.5. 802.11n HT20 CDD 3TX MODE IN THE 5.8 GHz BAND

OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
2.66	5.93	6.04	5.13

RESULTS

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
157	5785	5.13	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
157	5785	21.50	21.20	21.10	26.04	30.00	-3.96

Note: the power readings above are measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

POWER SPECTRAL DENSITY**LIMITS**

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

For PSD, the TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
2.66	5.93	6.04	9.78

RESULTS

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Directional Gain for PPSP (dBi)
Mid	5785	9.78

Limits

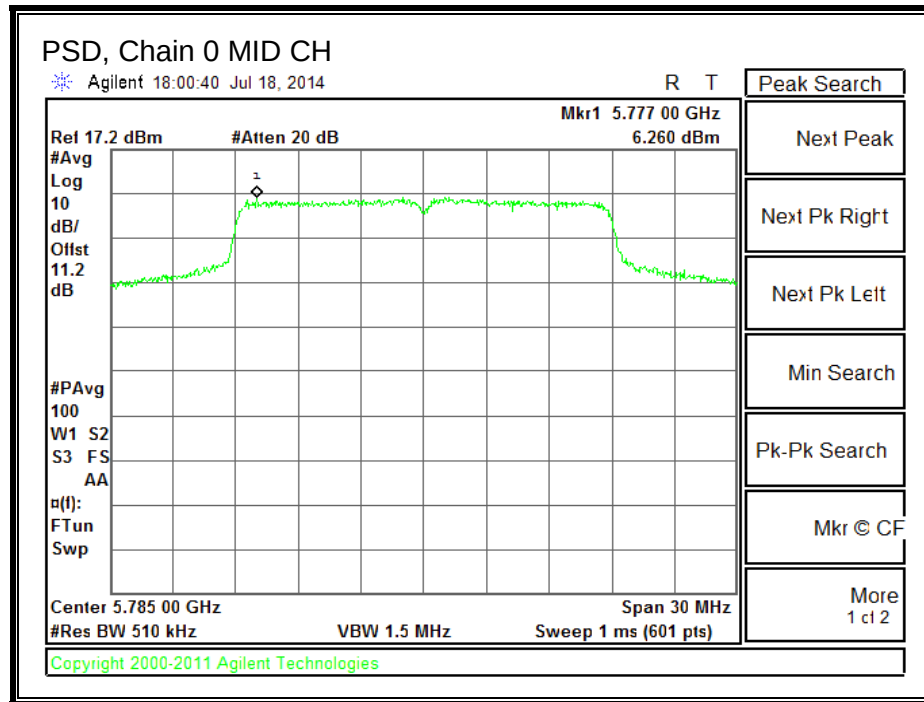
Channel	Frequency (MHz)	FCC PPSP Limit (dBm)
Mid	5785	26.22

Duty Cycle CF (dB)	0.190	Included in Calculations of PPSP
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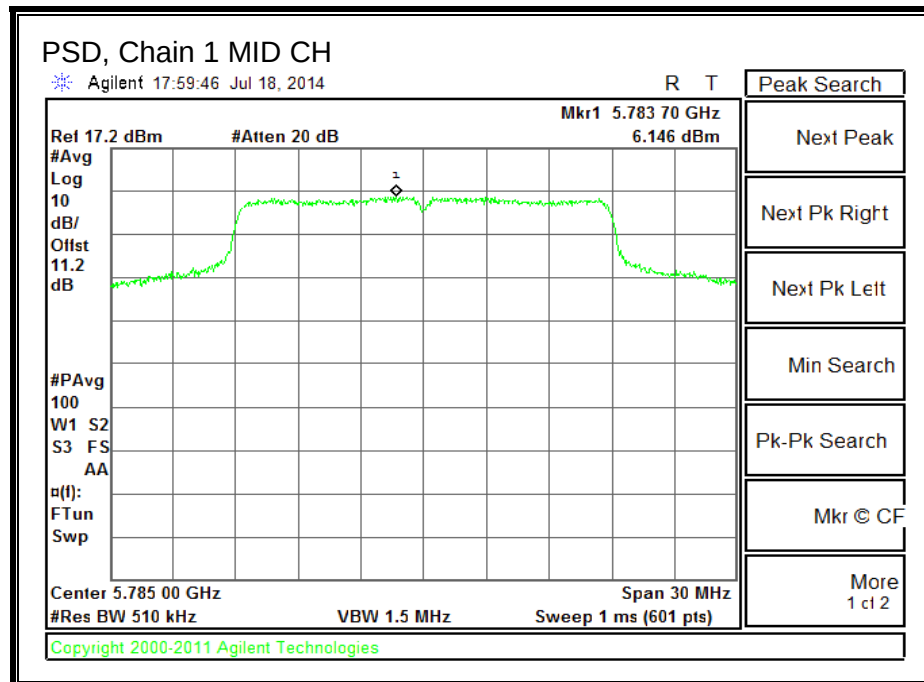
PPSP Results

Channel	Frequency (MHz)	Chain 0 Meas PPSP (dBm)	Chain 1 Meas PPSP (dBm)	Chain 2 Meas PPSP (dBm)	Total Corr'd PPSP (dBm)	PPSP Limit (dBm)	PPSP Margin (dB)
Mid	5785	6.260	6.146	6.019	11.10	26.22	-15.12

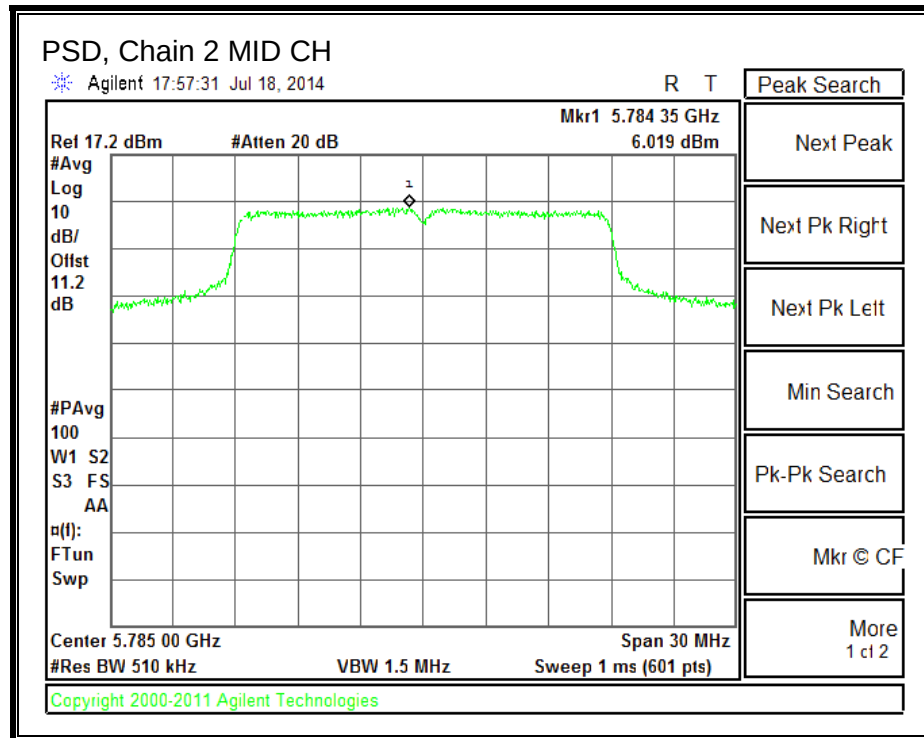
PSD, Chain 0



PSD, Chain 1



PSD, Chain 2



12.2.2.6. 802.11n HT40 CDD 3TX MODE IN THE 5.8 GHz BAND

OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
2.66	5.93	6.04	5.13

RESULTS

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
High	5795	5.13	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High	5795	18.20	18.10	17.60	22.75	30.00	-7.25

Note: the power readings above are measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

POWER SPECTRAL DENSITY**LIMITS**

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

For PSD, the TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
2.66	5.93	6.04	9.78

RESULTS

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Directional Gain for PPSP (dBi)
High	5795	9.78

Limits

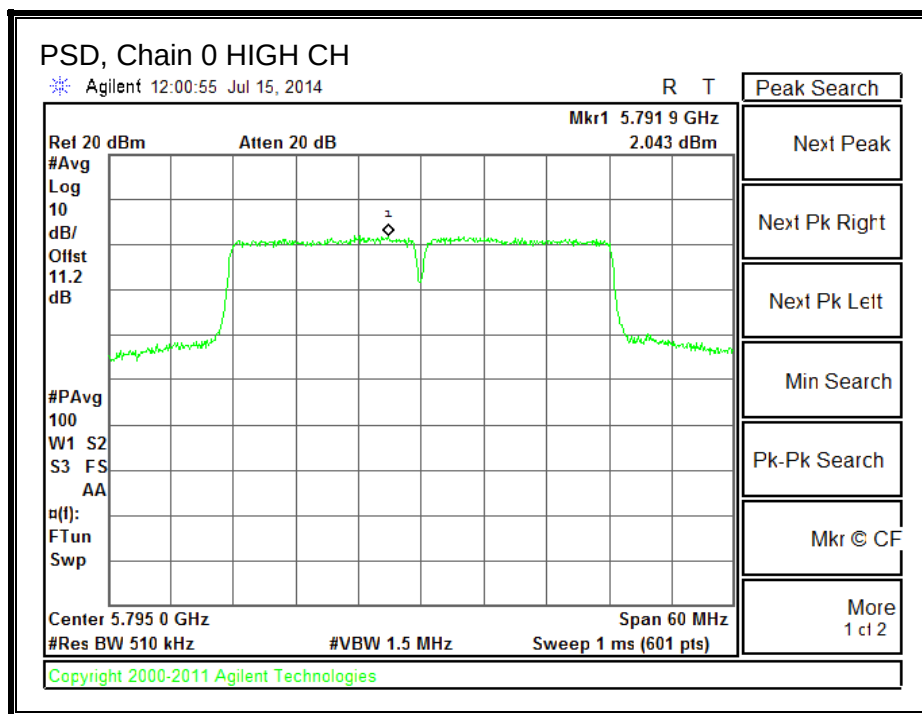
Channel	Frequency (MHz)	FCC PPSP Limit (dBm)
High	5795	26.22

Duty Cycle CF (dB)	0.190	Included in Calculations of PPSP
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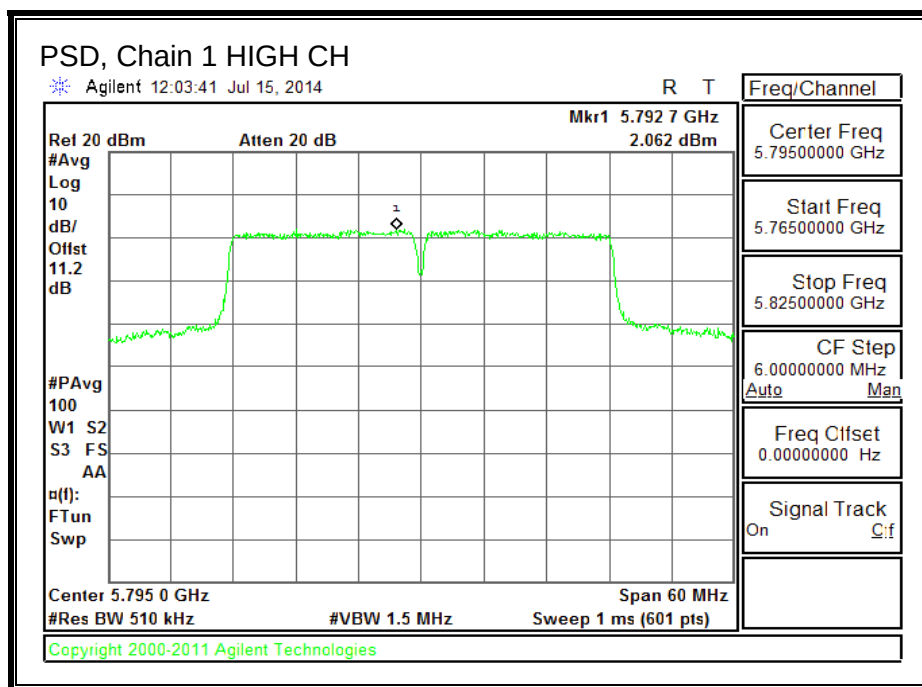
PPSP Results

Channel	Frequency (MHz)	Chain 0 Meas PPSP (dBm)	Chain 1 Meas PPSP (dBm)	Chain 2 Meas PPSP (dBm)	Total Corr'd PPSP (dBm)	PPSP Limit (dBm)	PPSP Margin (dB)
High	5795	2.043	2.062	1.969	6.99	26.22	-19.23

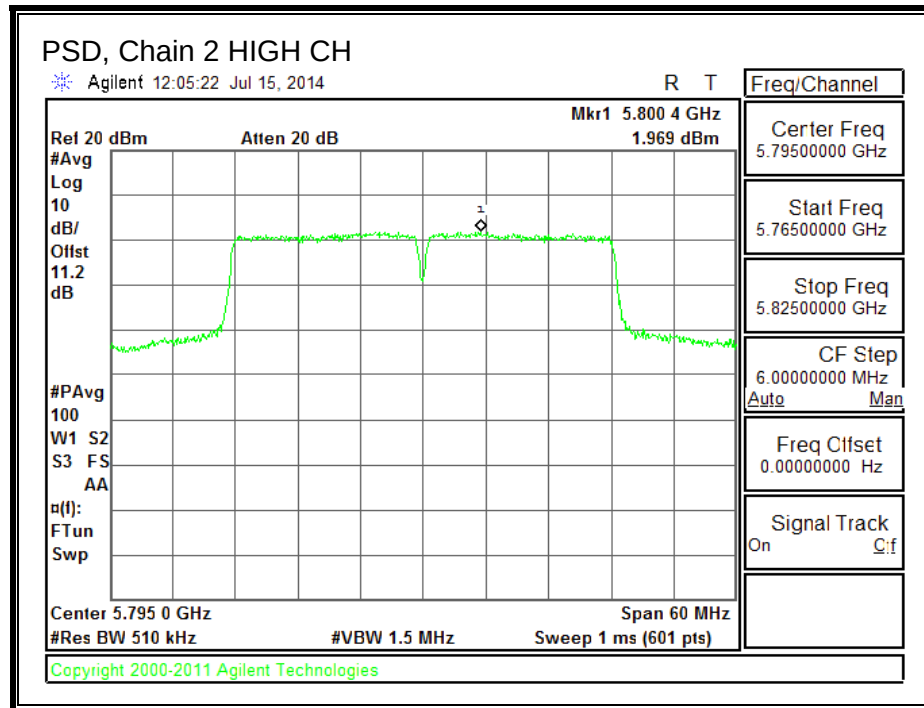
PSD, Chain 0



PSD, Chain 1



PSD, Chain 2



12.2.2.7. 802.11ac VHT80 CDD 3TX MODE IN THE 5.8 GHz BAND

OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
2.66	5.93	6.04	5.13