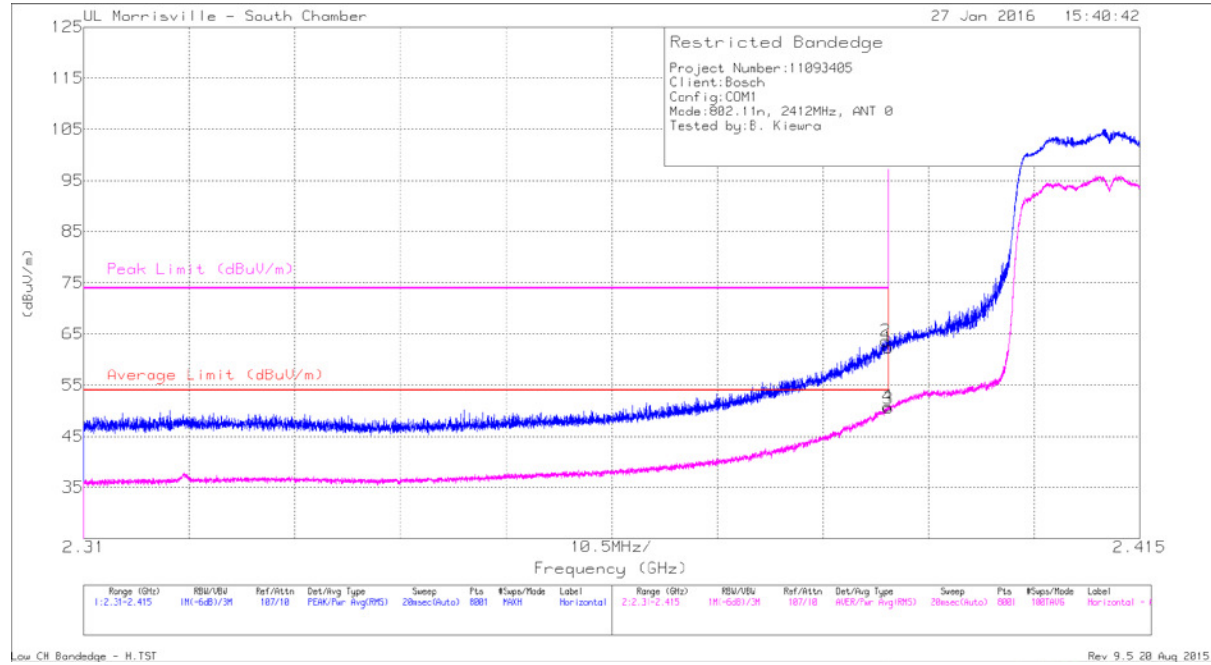


### 9.2.3. TX 1-18 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND

#### Chain 0 (Internal Antenna)

#### RESTRICTED BANDEDGE (LOW CHANNEL)

#### Ch 1



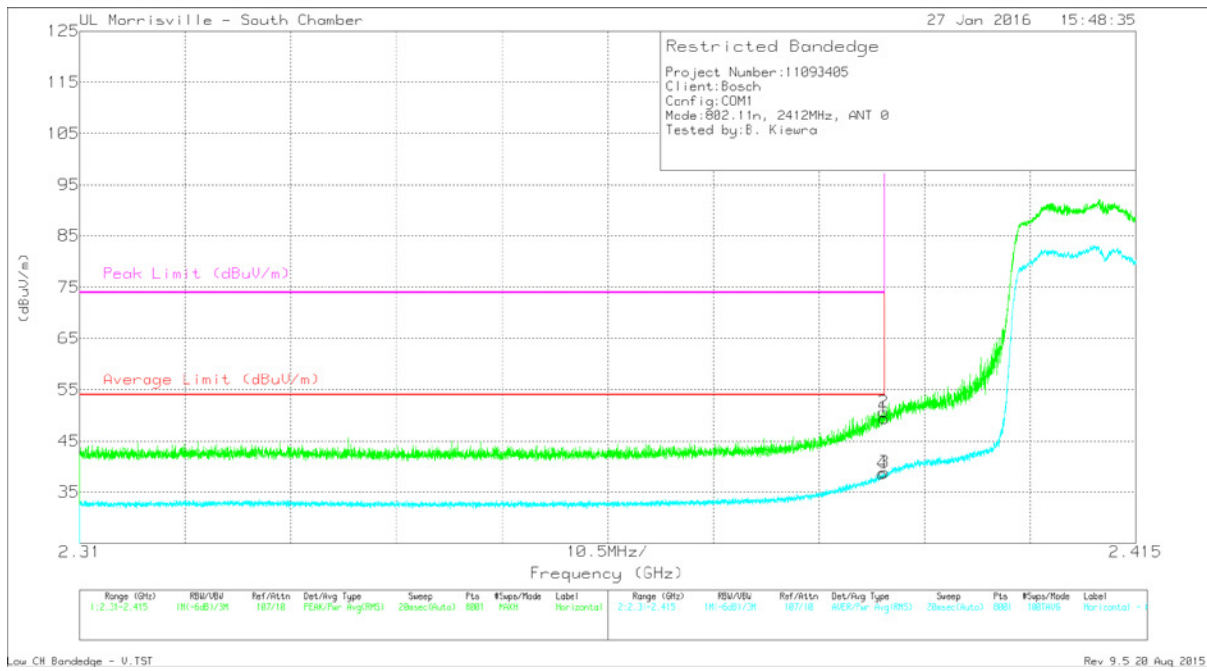
#### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	54.54	Pk	32	-24.2	0	62.34	-	-	74	-11.66	24	213	H
2	* 2.39	55.87	Pk	32	-24.2	0	63.67	-	-	74	-10.33	24	213	H
3	* 2.39	42.27	RMS	32	-24.2	.43	50.50	54	-3.51	-	-	24	213	H
4	* 2.39	42.65	RMS	32	-24.2	.43	50.88	54	-3.13	-	-	24	213	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

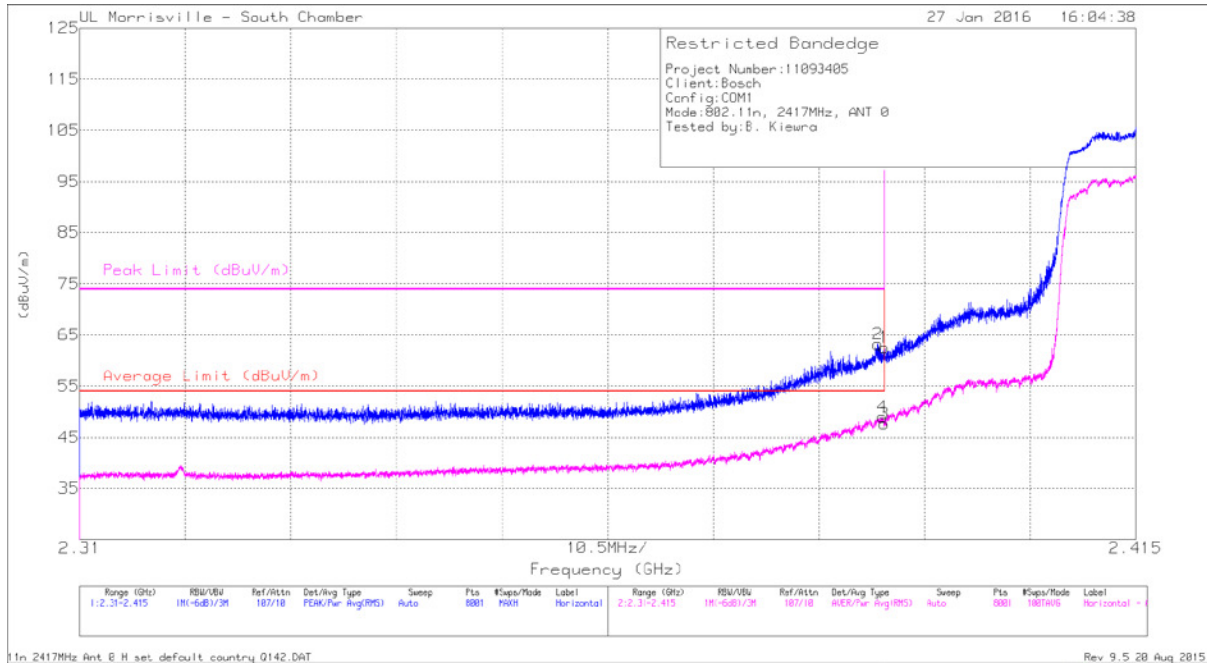
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.57	Pk	32	-24.2	0	49.37	-	-	74	-24.63	126	385	V
2	* 2.39	42.89	Pk	32	-24.2	0	50.69	-	-	74	-23.31	126	385	V
3	* 2.39	30.67	RMS	32	-24.2	.43	38.90	54	-15.11	-	-	126	385	V
4	* 2.39	30.49	RMS	32	-24.2	.43	38.72	54	-15.29	-	-	126	385	V

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

Pk - Peak detector

RMS - RMS detection

Ch 2



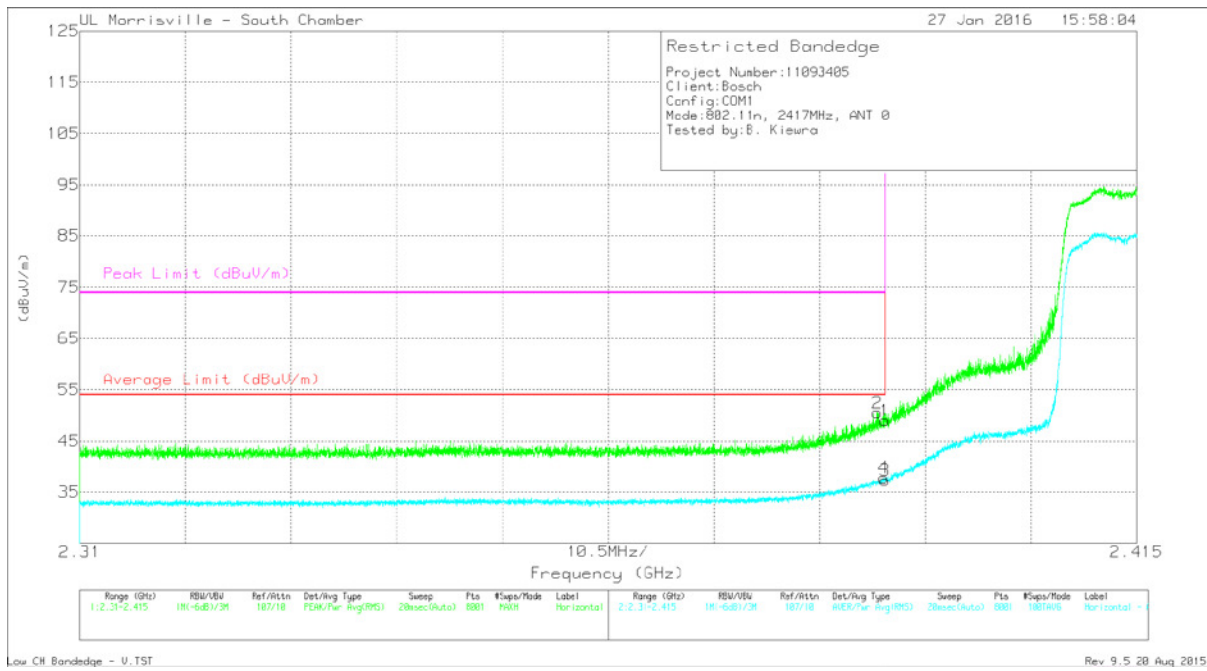
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	54.76	Pk	32	-24.2	0	62.56	-	-	74	-11.44	17	122	H
2	* 2.389	55.3	Pk	32	-24.1	0	63.2	-	-	74	-10.8	17	122	H
3	* 2.39	39.39	RMS	32	-24.2	.43	47.62	54	-6.39	-	-	17	122	H
4	* 2.39	40.76	RMS	32	-24.2	.43	48.99	54	-5.02	-	-	17	122	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

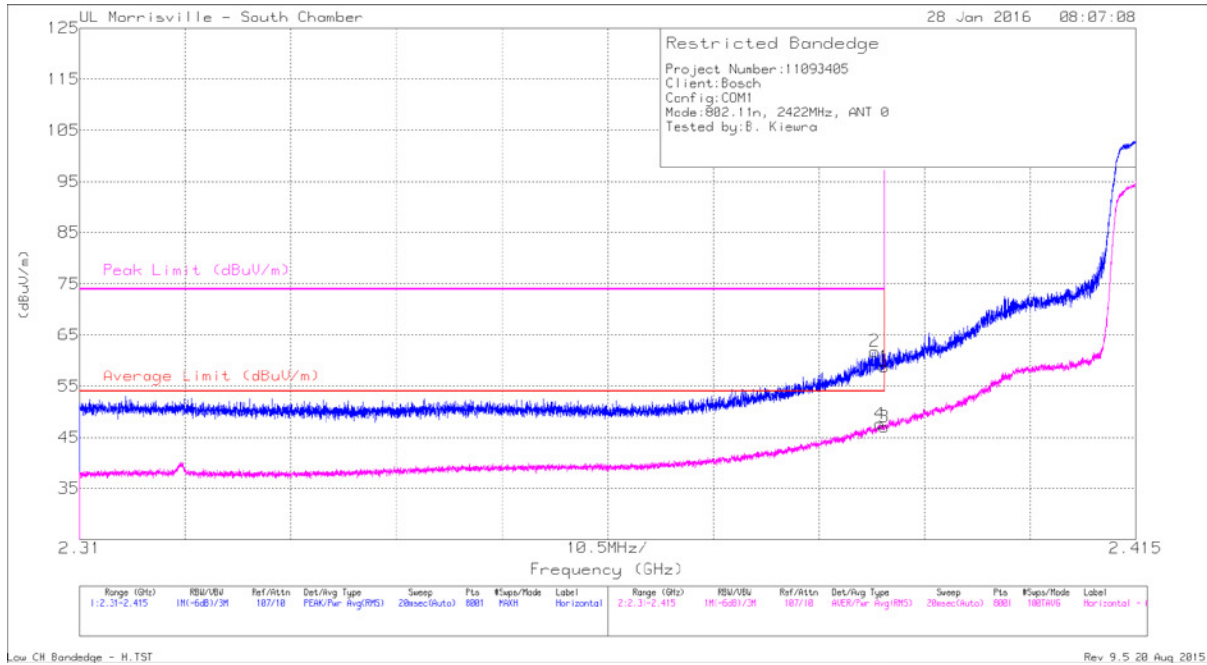
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.389	42.56	Pk	32	-24.1	0	50.46	-	-	74	-23.54	111	338	V
1	* 2.39	41.18	Pk	32	-24.2	0	48.98	-	-	74	-25.02	111	338	V
3	* 2.39	29.12	RMS	32	-24.2	.43	37.35	54	-16.66	-	-	111	338	V
4	* 2.39	29.59	RMS	32	-24.2	.43	37.82	54	-16.19	-	-	111	338	V

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

Pk - Peak detector

RMS - RMS detection

**Ch 3**



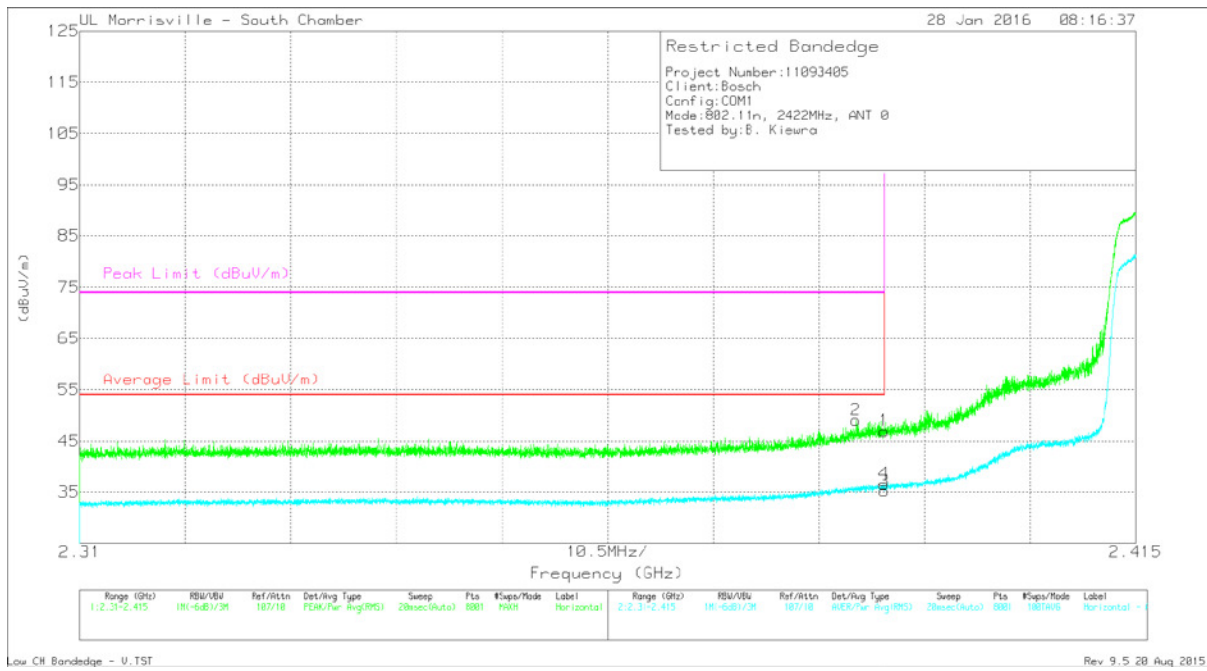
**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	50.97	Pk	32	-24.2	0	58.77	-	-	74	-15.23	17	123	H
2	* 2.389	53.92	Pk	32	-24.1	0	61.82	-	-	74	-12.18	17	123	H
3	* 2.39	38.8	RMS	32	-24.2	.43	47.03	54	-6.98	-	-	17	123	H
4	* 2.39	39.3	RMS	32	-24.1	.43	47.63	54	-6.38	-	-	17	123	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.16	Pk	32	-24.2	0	46.96	-	-	74	-27.04	331	102	V
2	* 2.387	41.16	Pk	32	-24.1	0	49.06	-	-	74	-24.94	331	102	V
3	* 2.39	27	RMS	32	-24.2	.43	35.23	54	-18.78	-	-	331	102	V
4	* 2.39	28.41	RMS	32	-24.2	.43	36.64	54	-17.37	-	-	331	102	V

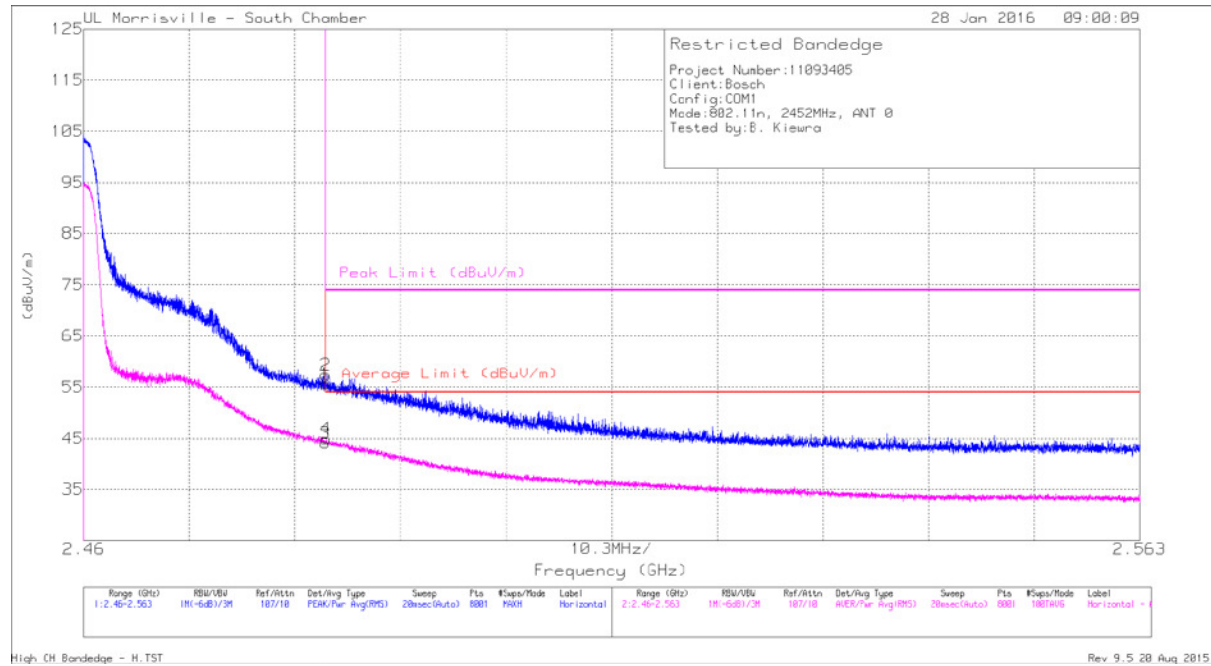
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

**AUTHORIZED BANDEDGE (HIGH CHANNEL)**

**Ch 9**



**Trace Markers**

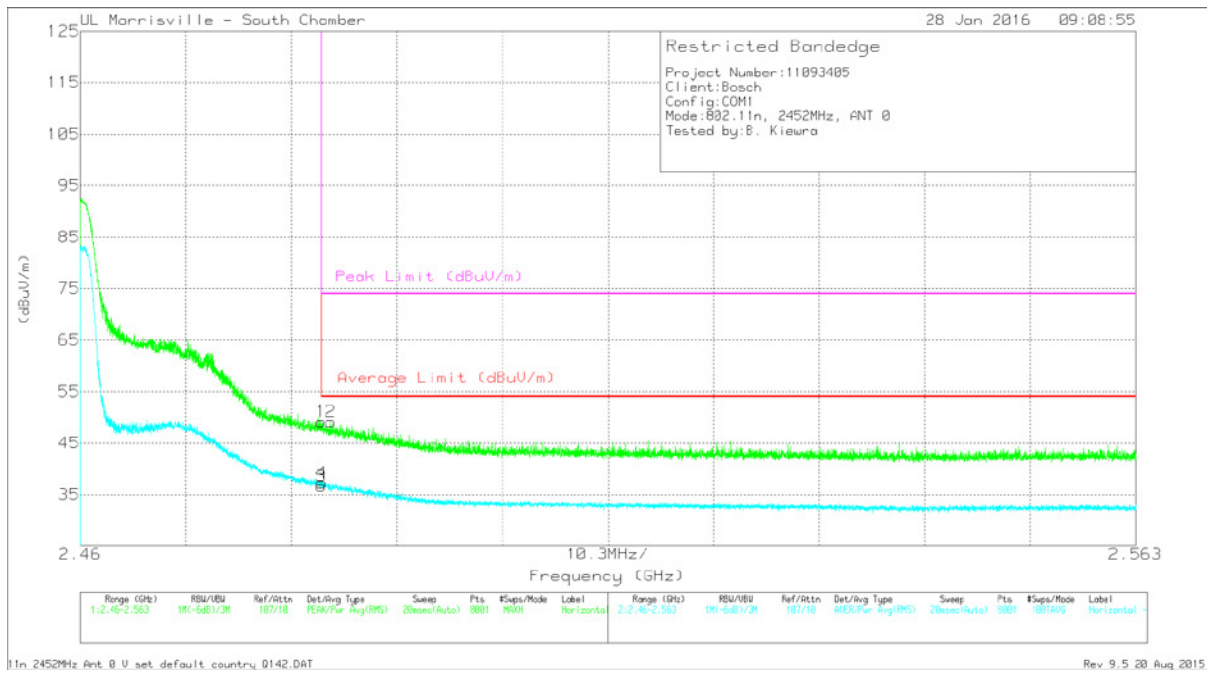
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.23	Pk	32.1	-24.7	0	55.63	-	-	74	-18.37	11	132	H
2	* 2.484	49.98	Pk	32.1	-24.7	0	57.38	-	-	74	-16.62	11	132	H
3	* 2.484	36.24	RMS	32.1	-24.7	.43	44.07	54	-9.94	-	-	11	132	H
4	* 2.484	37.11	RMS	32.1	-24.7	.43	44.94	54	-9.07	-	-	11	132	H

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

Pk - Peak detector

RMS - RMS detection





Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.75	Pk	32.1	-24.7	0	49.15	-	-	74	-24.85	327	333	V
2	* 2.484	41.69	Pk	32.1	-24.7	0	49.09	-	-	74	-24.91	327	333	V
3	* 2.484	29.22	RMS	32.1	-24.7	.43	37.05	54	-16.95	-	-	327	333	V
4	* 2.484	29.83	RMS	32.1	-24.7	.43	37.66	54	-16.34	-	-	327	333	V

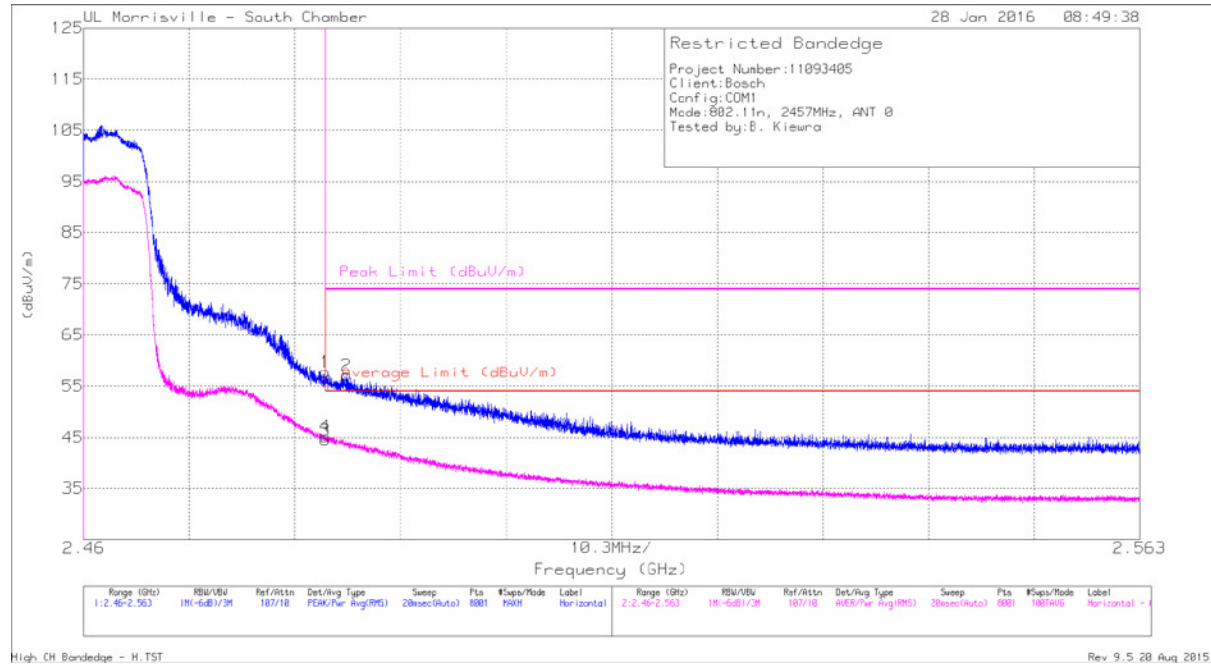
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection



Ch 10



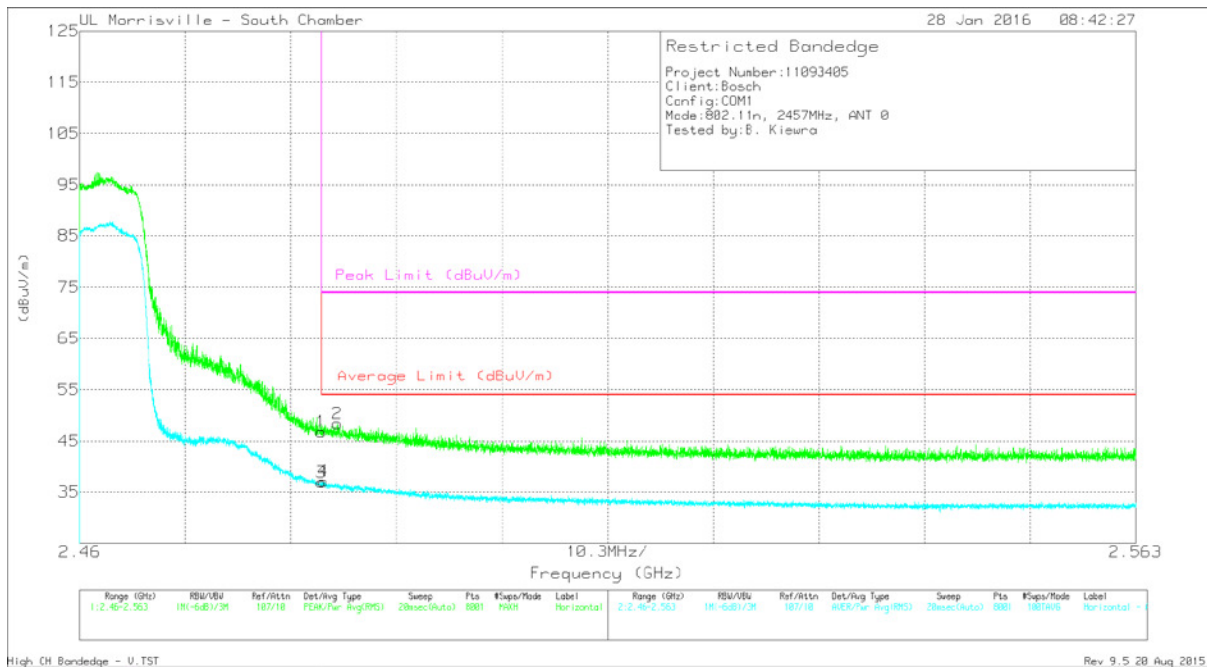
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	50.35	Pk	32.1	-24.7	0	57.75	-	-	74	-16.25	18	157	H
2	* 2.486	49.69	Pk	32.1	-24.7	0	57.09	-	-	74	-16.91	18	157	H
3	* 2.484	36.61	RMS	32.1	-24.7	.43	44.44	54	-9.57	-	-	18	157	H
4	* 2.484	37.37	RMS	32.1	-24.7	.43	45.20	54	-8.81	-	-	18	157	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

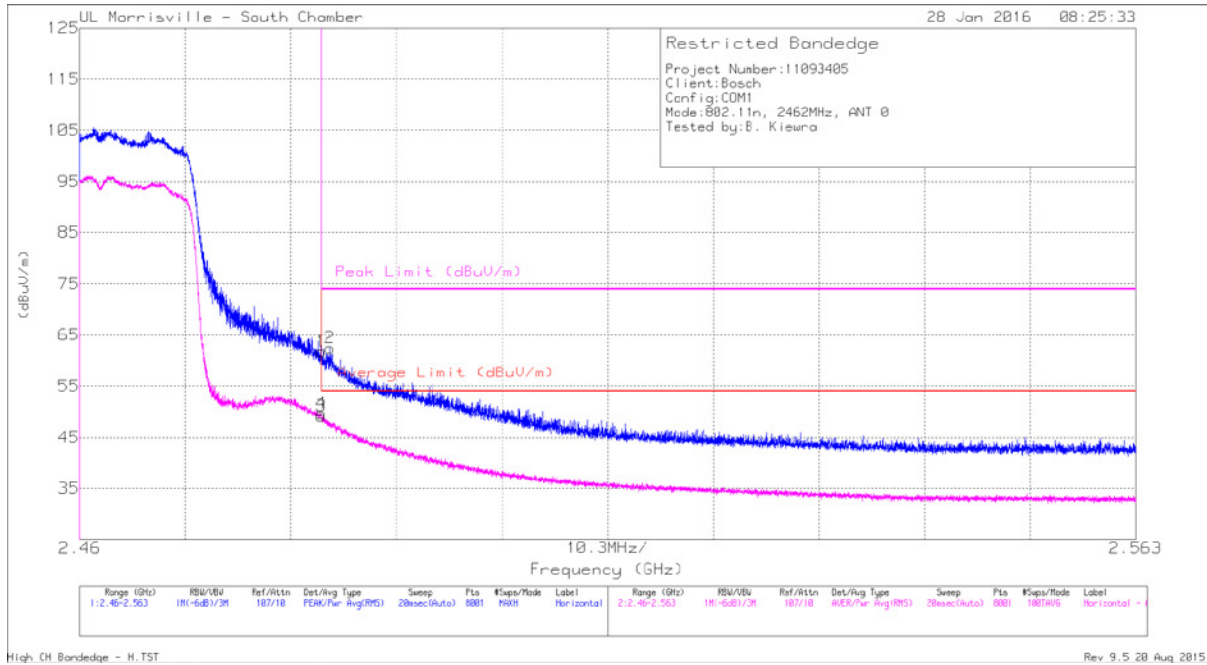
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.4	Pk	32.1	-24.7	0	46.8	-	-	74	-27.2	306	329	V
2	* 2.485	40.96	Pk	32.1	-24.7	0	48.36	-	-	74	-25.64	306	329	V
3	* 2.484	29.12	RMS	32.1	-24.7	.43	36.95	54	-17.06	-	-	306	329	V
4	* 2.484	29.31	RMS	32.1	-24.7	.43	37.14	54	-16.87	-	-	306	329	V

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

Pk - Peak detector

RMS - RMS detection

Ch 11



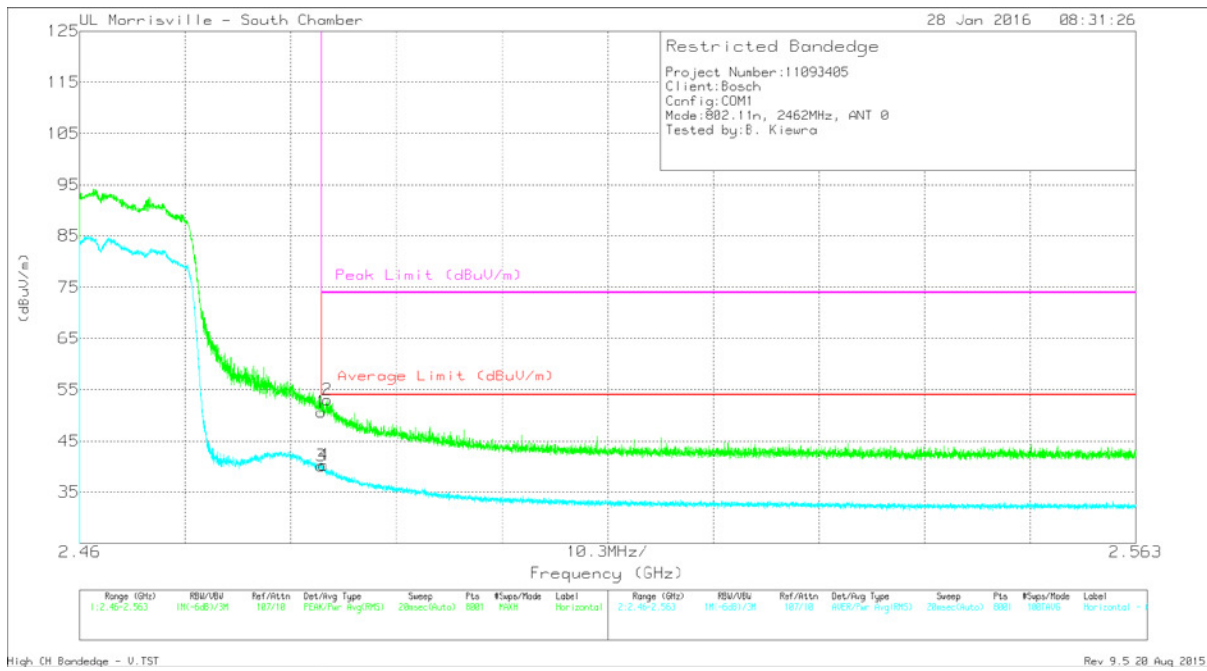
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	54.36	Pk	32.1	-24.7	0	61.76	-	-	74	-12.24	9	181	H
2	* 2.484	55.05	Pk	32.1	-24.7	0	62.45	-	-	74	-11.55	9	181	H
3	* 2.484	41.35	RMS	32.1	-24.7	.43	49.18	54	-4.83	-	-	9	181	H
4	* 2.484	41.84	RMS	32.1	-24.7	.43	49.67	54	-4.34	-	-	9	181	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.23	Pk	32.1	-24.7	0	50.63	-	-	74	-23.37	282	292	V
2	* 2.484	45.61	Pk	32.1	-24.7	0	53.01	-	-	74	-20.99	282	292	V
3	* 2.484	32.3	RMS	32.1	-24.7	.43	40.13	54	-13.88	-	-	282	292	V
4	* 2.484	32.41	RMS	32.1	-24.7	.43	40.24	54	-13.77	-	-	282	292	V

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

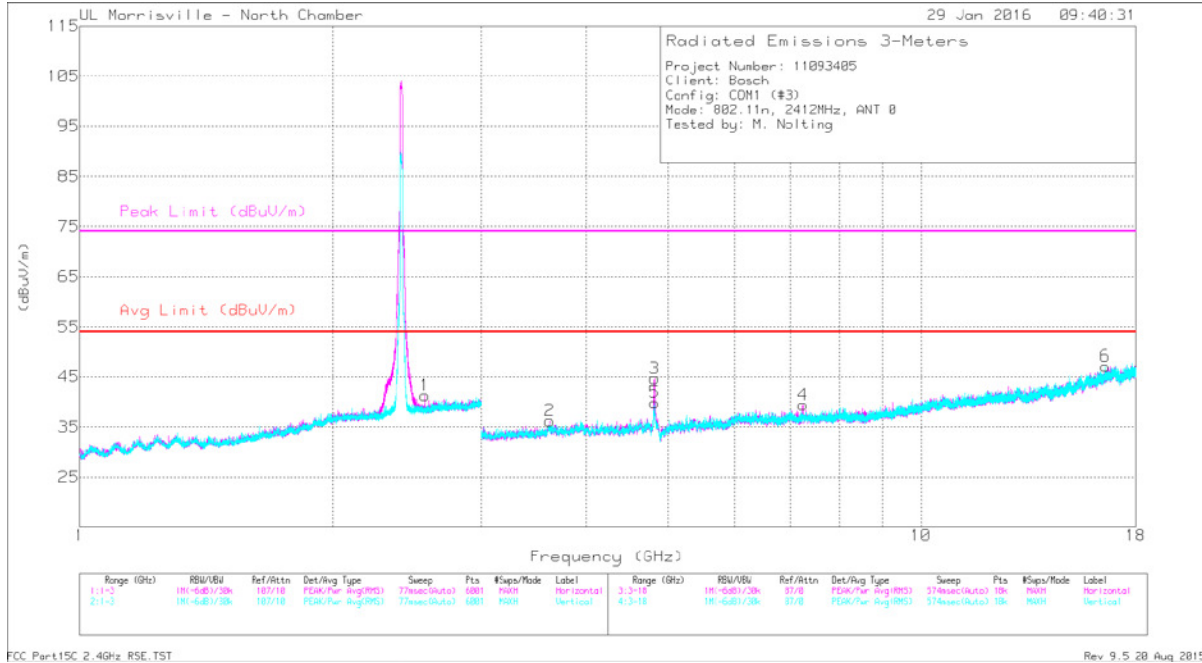
Pk - Peak detector

RMS - RMS detection

**HARMONICS AND SPURIOUS EMISSIONS**

Low Channel

Note – This test was performed with the low and high channels at mid-channel levels to achieve a worst-case maximum power.



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.618	41.95	PK2	33.2	-32.2	0	42.95	-	-	74	-31.05	310	294	H
	* 3.618	30.1	MAv1	33.2	-32.2	.43	31.53	54	-22.47	-	-	310	294	H
3	* 4.819	51.5	PK2	34.1	-32.2	0	53.4	-	-	74	-20.6	285	106	H
	* 4.823	38.96	MAv1	34.1	-32.2	.43	41.29	54	-12.71	-	-	285	106	H
5	* 4.821	44.81	PK2	34.1	-32.2	0	46.71	-	-	74	-27.29	296	103	V
	* 4.818	33.64	MAv1	34.1	-32.2	.43	35.97	54	-18.03	-	-	296	103	V
1	2.572	33.73	Pk	32.2	-24.6	0	41.33	-	-	-	-	0-360	101	H
4	7.242	34.04	Pk	35.7	-30.3	0	39.44	-	-	-	-	0-360	101	H
6	16.574	30.84	Pk	41.9	-25.6	0	47.14	-	-	-	-	0-360	101	V

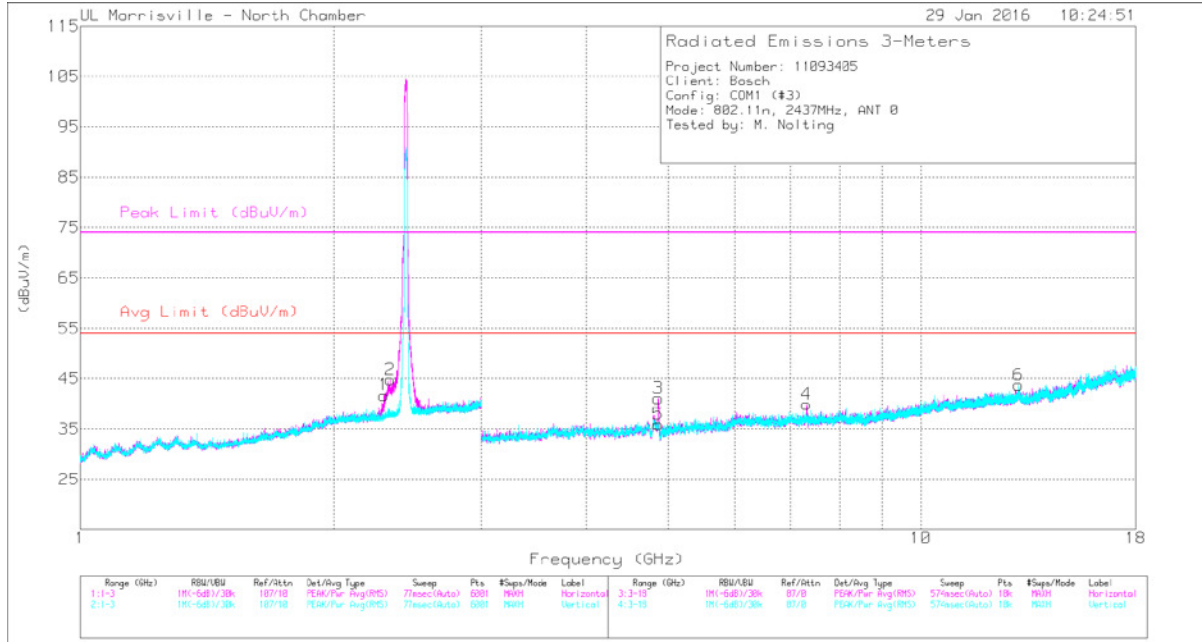
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

Mid Channel



FCC Part15C 2.4GHz RSE\_TST

Rev. 9.5.20 Aug 2015

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.299	42.53	PK2	31.7	-24.8	0	49.43	-	-	74	-24.57	136	154	H
	* 2.3	29.08	MAv1	31.7	-24.8	.43	36.41	54	-17.59	-	-	136	154	H
2	* 2.333	45.54	PK2	31.8	-24.7	0	52.64	-	-	74	-21.36	126	105	H
	* 2.32	32.76	MAv1	31.7	-24.7	.43	40.19	54	-13.81	-	-	126	105	H
3	* 4.874	49.15	PK2	34.1	-32.2	0	51.05	-	-	74	-22.95	304	103	H
	* 4.873	36.64	MAv1	34.1	-32.2	.43	38.97	54	-15.03	-	-	304	103	H
4	* 7.309	42.65	PK2	35.7	-30	0	48.35	-	-	74	-25.65	267	101	H
	* 7.31	30.57	MAv1	35.7	-30	.43	36.7	54	-17.3	-	-	267	101	H
5	* 4.872	47.18	PK2	34.1	-32.1	0	49.18	-	-	74	-24.82	88	394	V
	* 4.873	35.2	MAv1	34.1	-32.2	.43	37.53	54	-16.47	-	-	88	394	V
6	13.059	30.74	PK	39.3	-26.3	0	43.74	-	-	-	-	0-360	101	V

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

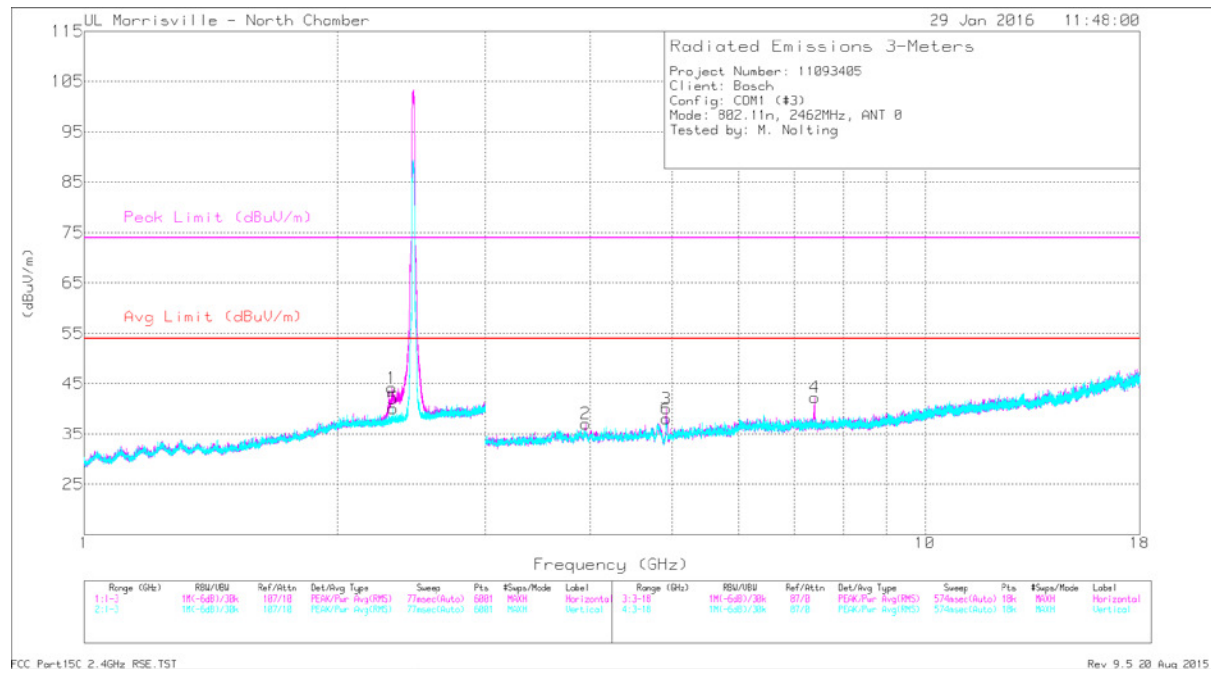
Pk - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

High Channel

Note – This test was performed with the low and high channels at mid-channel levels to achieve a worst-case maximum power.



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.319	44.54	PK2	31.7	-24.8	0	51.44	-	-	74	-22.56	104	130	H
	* 2.32	33.45	MAv1	31.7	-24.7	.43	40.88	54	-13.12	-	-	104	130	H
5	* 2.32	40.62	PK2	31.7	-24.7	0	47.62	-	-	74	-26.38	93	379	V
	* 2.32	29.42	MAv1	31.7	-24.7	.43	36.85	54	-17.15	-	-	93	379	V
2	* 3.947	40.6	PK2	33.7	-32.4	0	41.9	-	-	74	-32.1	263	102	H
	* 3.946	29.4	MAv1	33.7	-32.4	.43	31.13	54	-22.87	-	-	263	102	H
3	* 4.922	44.9	PK2	34.1	-32.5	0	46.5	-	-	74	-27.5	131	110	H
	* 4.925	33.14	MAv1	34.1	-32.5	.43	35.17	54	-18.83	-	-	131	110	H
4	* 7.385	44.35	PK2	35.8	-30.1	0	50.05	-	-	74	-23.95	268	101	H
	* 7.386	31.79	MAv1	35.8	-30.1	.43	37.92	54	-16.08	-	-	268	101	H
6	* 4.925	45.69	PK2	34.1	-32.5	0	47.29	-	-	74	-26.71	270	386	V
	* 4.923	33.99	MAv1	34.1	-32.5	.43	36.02	54	-17.98	-	-	270	386	V

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

Pk - Peak detector

PK2 - KDB558074 Method: Maximum Peak

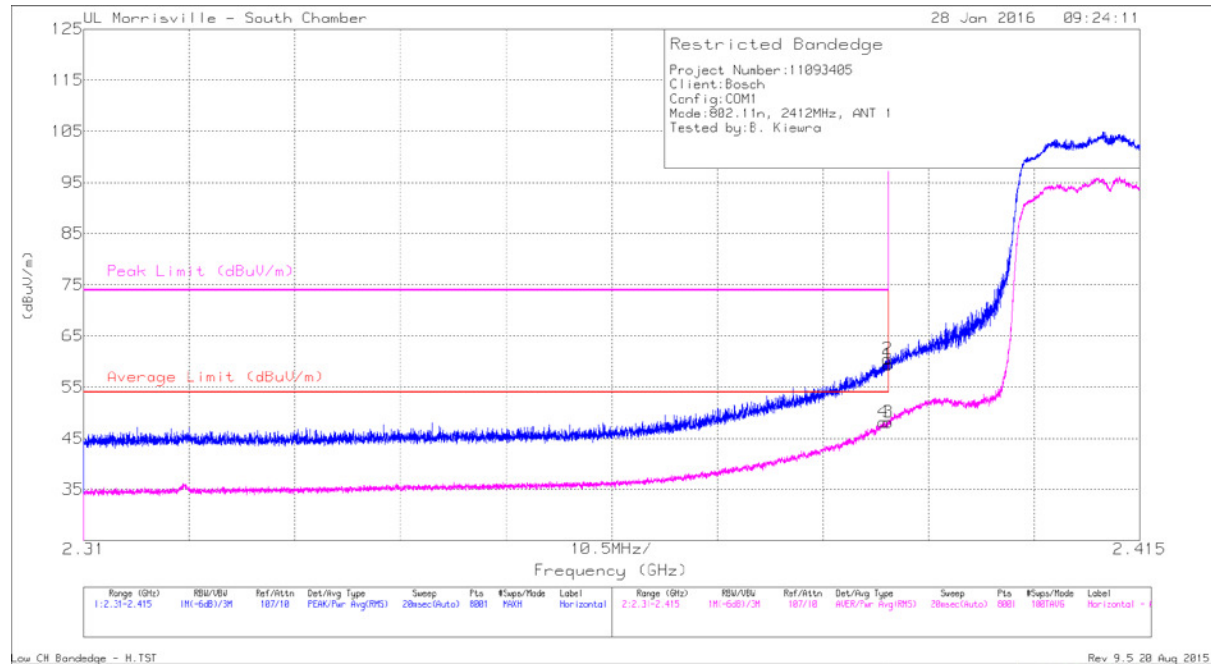
MAv1 - KDB558074 Option 1 Maximum RMS Average



**Chain 1**

**RESTRICTED BANDEDGE (LOW CHANNEL)**

**Ch 1**



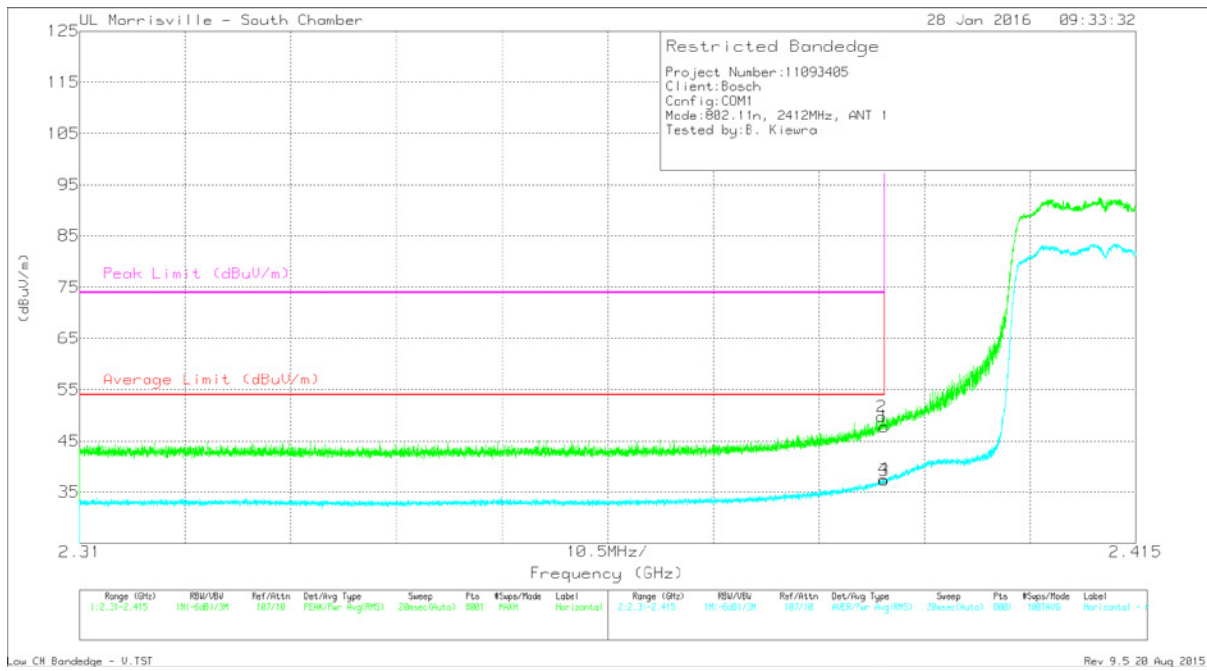
**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	51.63	Pk	32	-24.2	0	59.43	-	-	74	-14.57	165	140	H
2	* 2.39	52.74	Pk	32	-24.2	0	60.54	-	-	74	-13.46	165	140	H
3	* 2.39	39.96	RMS	32	-24.2	.43	48.19	54	-5.82	-	-	165	140	H
4	* 2.39	39.87	RMS	32	-24.1	.43	48.20	54	-5.81	-	-	165	140	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

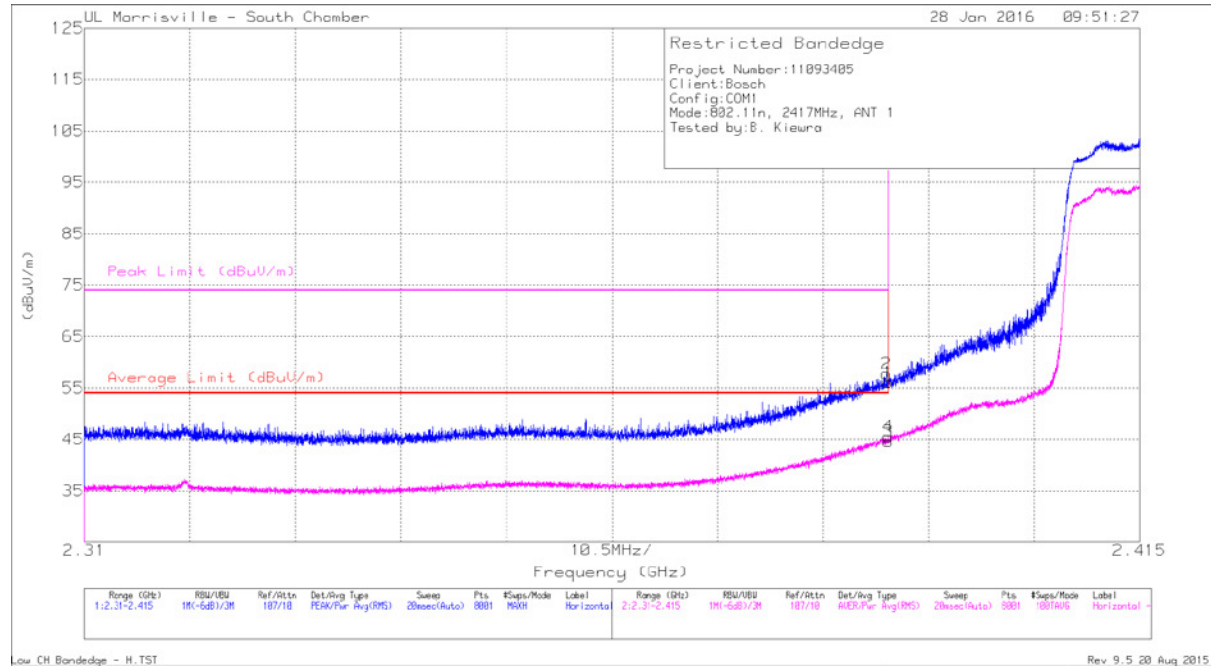
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40	Pk	32	-24.2	0	47.8	-	-	74	-26.2	314	270	V
2	* 2.39	41.94	Pk	32	-24.2	0	49.74	-	-	74	-24.26	314	270	V
3	* 2.39	29.06	RMS	32	-24.2	.43	37.29	54	-16.72	-	-	314	270	V
4	* 2.39	29.3	RMS	32	-24.2	.43	37.53	54	-16.48	-	-	314	270	V

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

Pk - Peak detector

RMS - RMS detection

Ch 2



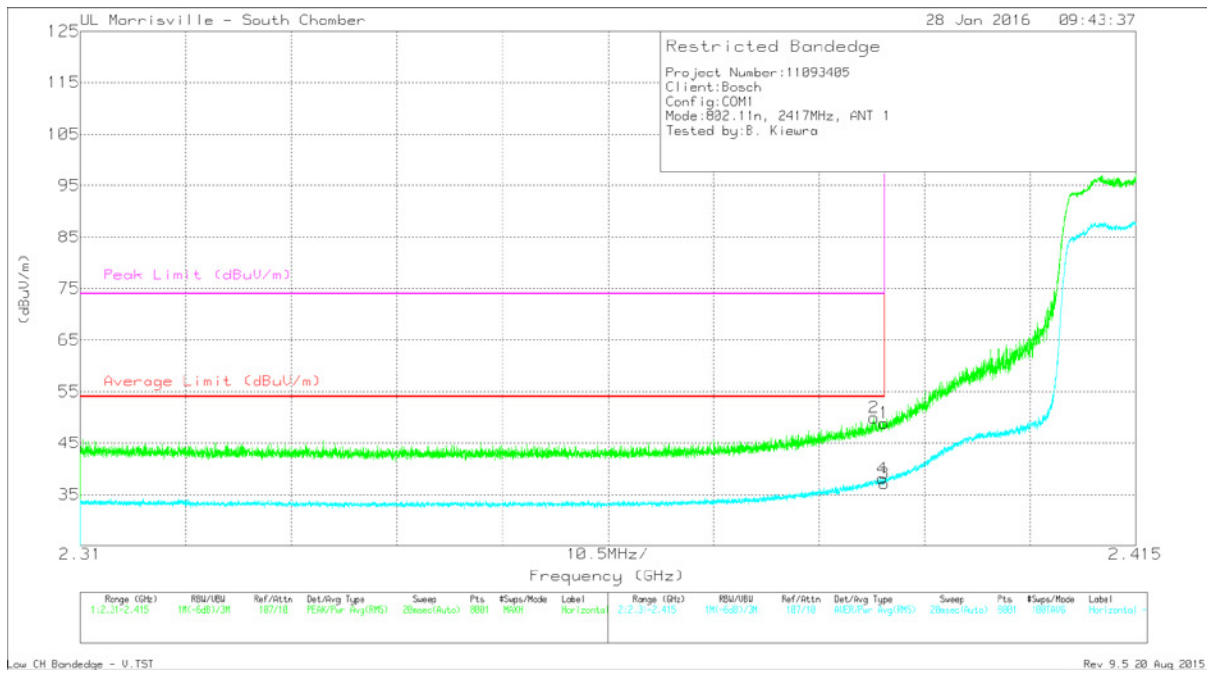
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	48.26	Pk	32	-24.2	0	56.06	-	-	74	-17.94	203	112	H
2	* 2.39	49.94	Pk	32	-24.2	0	57.74	-	-	74	-16.26	203	112	H
3	* 2.39	36.4	RMS	32	-24.2	.43	44.63	54	-9.38	-	-	203	112	H
4	* 2.39	37.3	RMS	32	-24.2	.43	45.53	54	-8.48	-	-	203	112	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

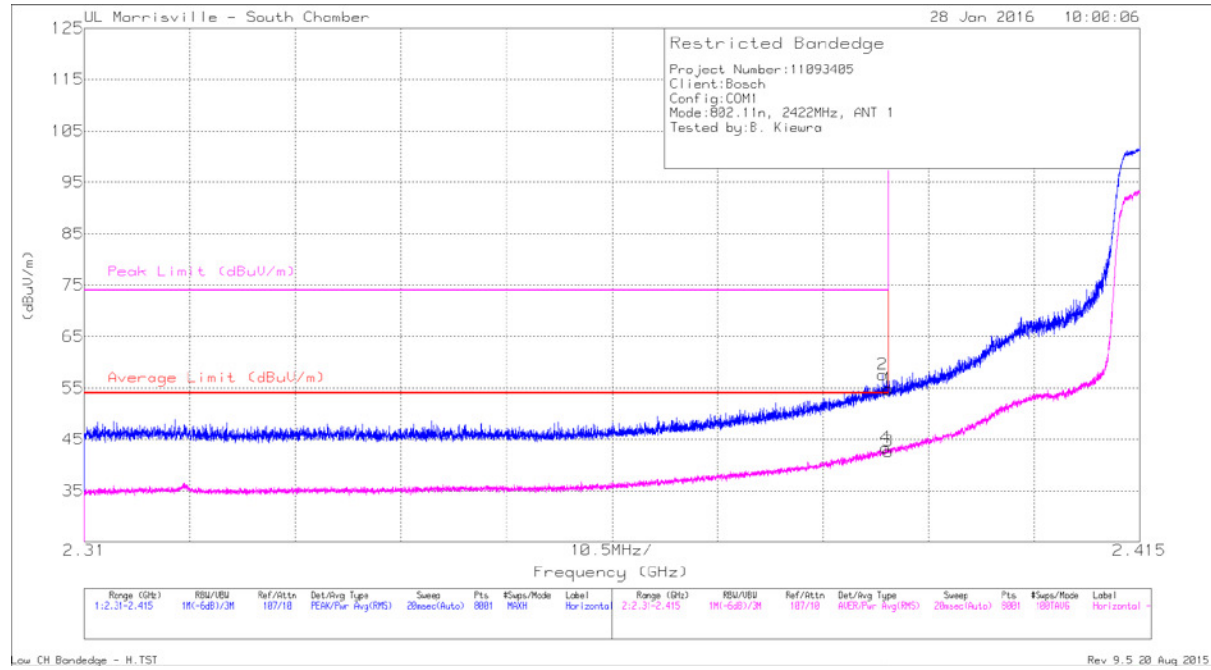
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.04	Pk	32	-24.2	0	48.84	-	-	74	-25.16	272	392	V
2	* 2.389	42.02	Pk	32	-24.1	0	49.92	-	-	74	-24.08	272	392	V
3	* 2.39	28.9	RMS	32	-24.2	.43	37.13	54	-16.88	-	-	272	392	V
4	* 2.39	29.89	RMS	32	-24.2	.43	38.12	54	-15.89	-	-	272	392	V

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

Pk - Peak detector

RMS - RMS detection

**Ch 3**



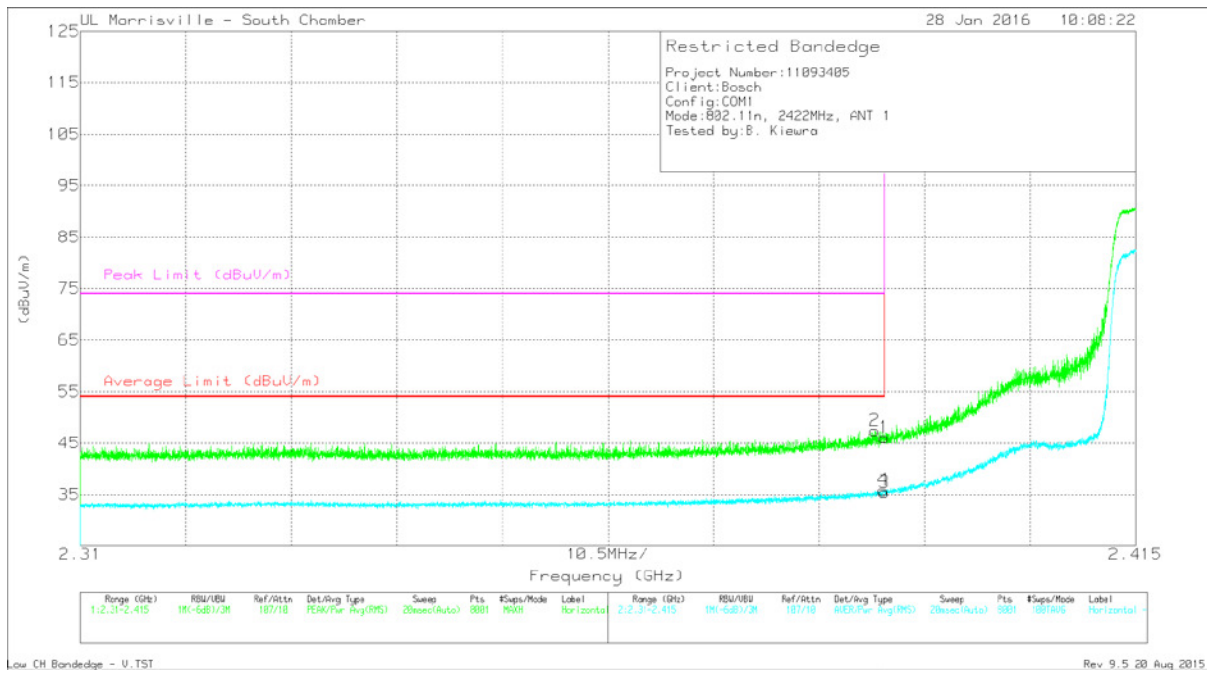
**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	47	Pk	32	-24.2	0	54.8	-	-	74	-19.2	160	159	H
2	* 2.389	49.7	Pk	32	-24.1	0	57.6	-	-	74	-16.4	160	159	H
3	* 2.39	34.48	RMS	32	-24.2	.43	42.71	54	-11.3	-	-	160	159	H
4	* 2.39	35.06	RMS	32	-24.1	.43	43.39	54	-10.62	-	-	160	159	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.389	39.54	Pk	32	-24.1	0	47.44	-	-	74	-26.56	312	357	V
1	* 2.39	38.29	Pk	32	-24.2	0	46.09	-	-	74	-27.91	312	357	V
3	* 2.39	27.22	RMS	32	-24.2	.43	35.45	54	-18.55	-	-	312	357	V
4	* 2.39	27.62	RMS	32	-24.2	.43	35.85	54	-18.15	-	-	312	357	V

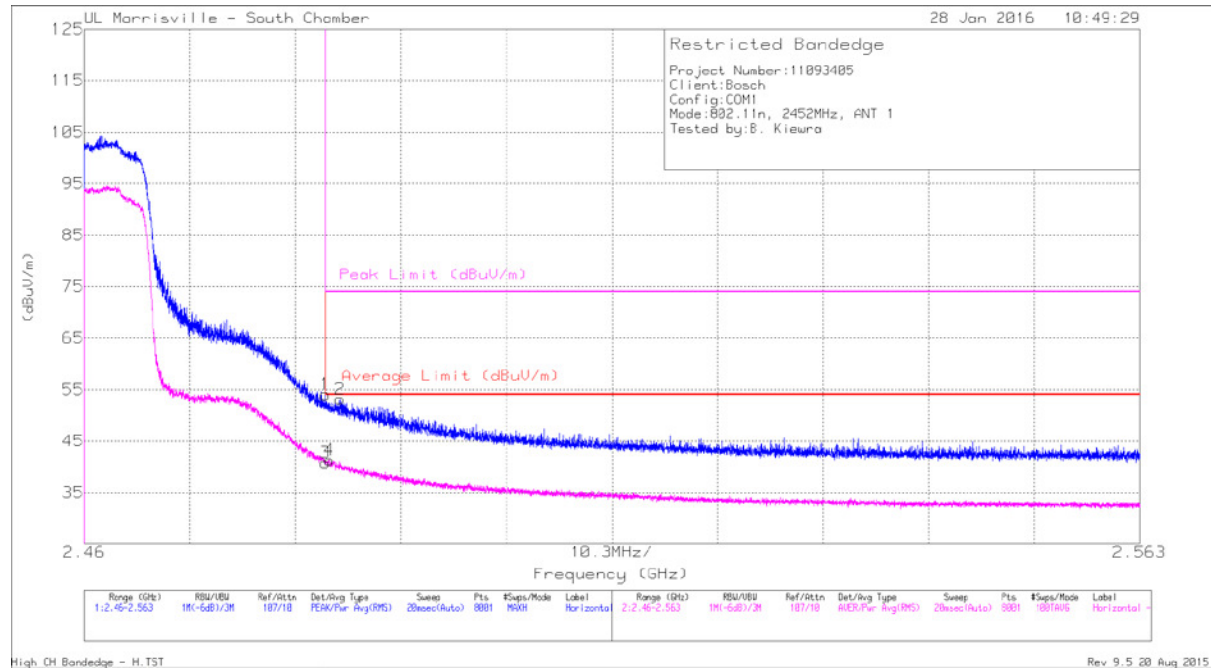
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

**AUTHORIZED BANDEDGE (HIGH CHANNEL)**

**Ch 9**



**Trace Markers**

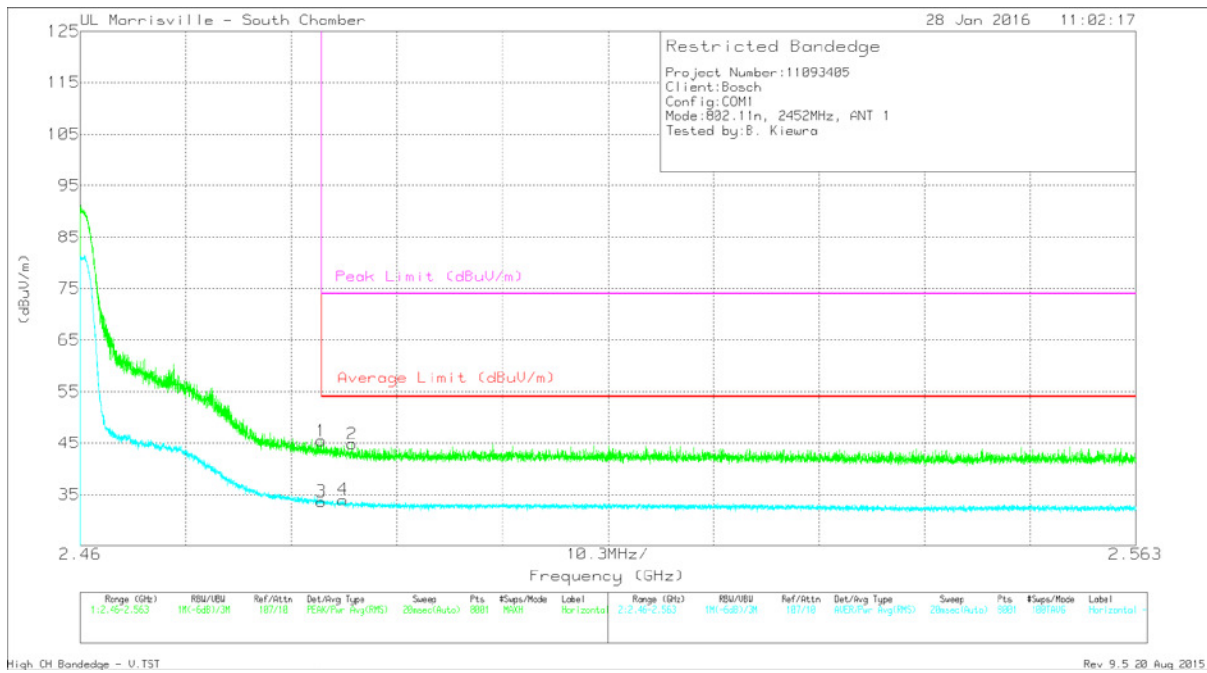
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.66	Pk	32.1	-24.7	0	54.06	-	-	74	-19.94	165	198	H
2	* 2.485	45.73	Pk	32.1	-24.7	0	53.13	-	-	74	-20.87	165	198	H
3	* 2.484	32.94	RMS	32.1	-24.7	.43	40.77	54	-13.23	-	-	165	198	H
4	* 2.484	33.47	RMS	32.1	-24.7	.43	41.3	54	-12.7	-	-	165	198	H

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

Pk - Peak detector

RMS - RMS detection





Trace Markers

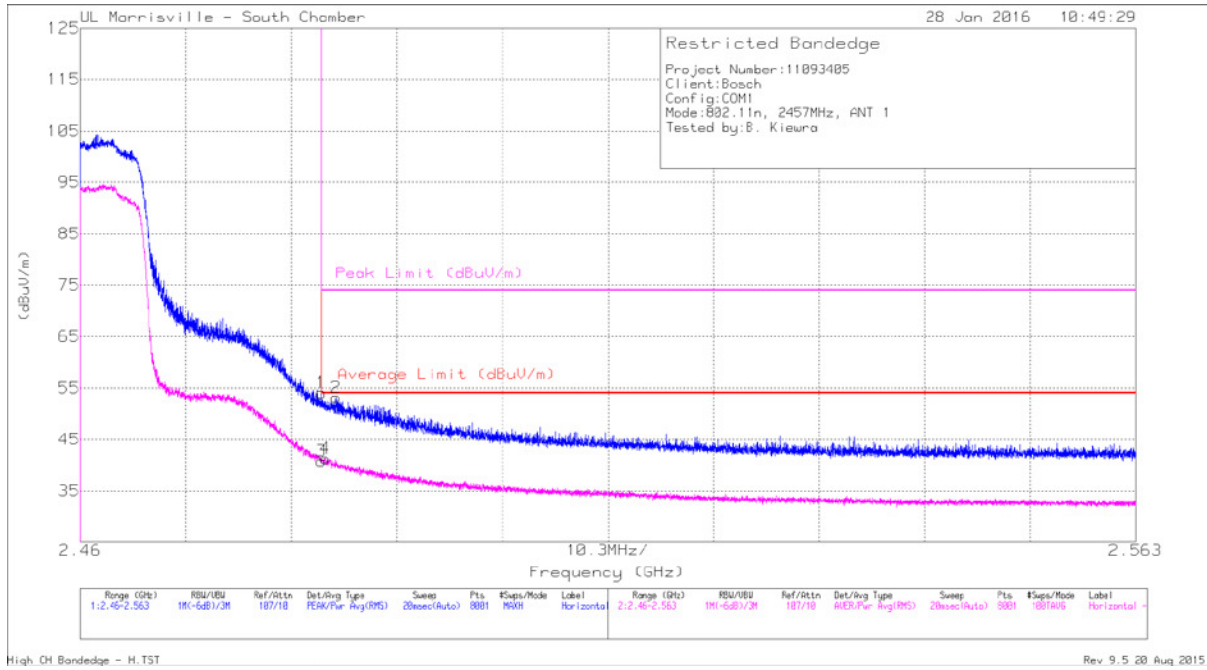
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.02	Pk	32.1	-24.7	0	45.42	-	-	74	-28.58	308	370	V
2	* 2.487	37.4	Pk	32.1	-24.7	0	44.8	-	-	74	-29.2	308	370	V
3	* 2.484	25.81	RMS	32.1	-24.7	.43	33.64	54	-20.36	-	-	308	370	V
4	* 2.486	26.17	RMS	32.1	-24.7	.43	34	54	-20	-	-	308	370	V

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

Pk - Peak detector

RMS - RMS detection

**Ch 10**



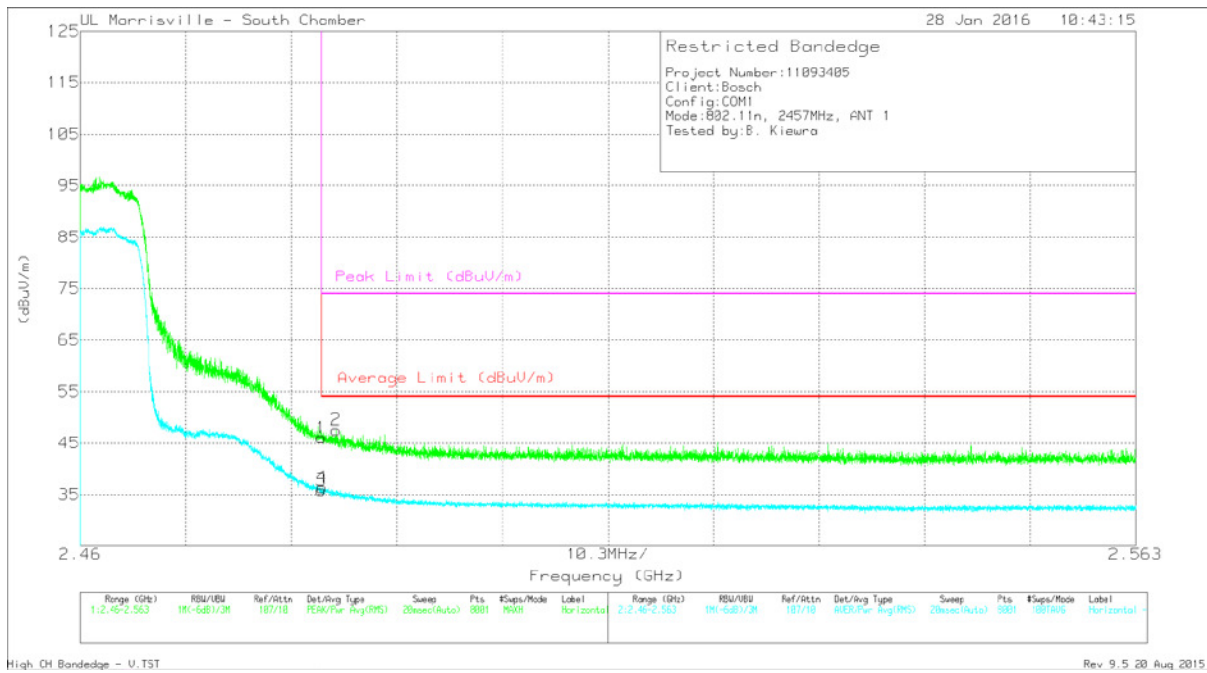
**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.66	Pk	32.1	-24.7	0	54.06	-	-	74	-19.94	165	198	H
2	* 2.485	45.73	Pk	32.1	-24.7	0	53.13	-	-	74	-20.87	165	198	H
3	* 2.484	32.94	RMS	32.1	-24.7	.43	40.77	54	-13.23	-	-	165	198	H
4	* 2.484	33.47	RMS	32.1	-24.7	.43	41.3	54	-12.7	-	-	165	198	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

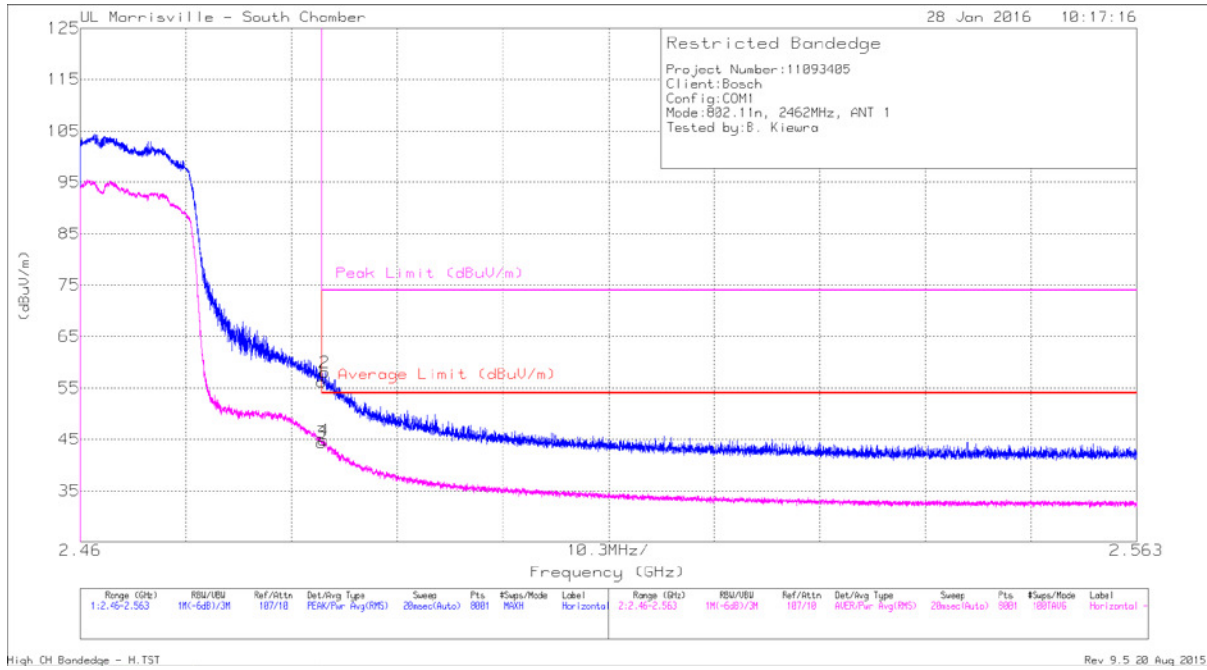
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.64	Pk	32.1	-24.7	0	46.04	-	-	74	-27.96	127	370	V
2	* 2.485	40.16	Pk	32.1	-24.7	0	47.56	-	-	74	-26.44	127	370	V
3	* 2.484	28	RMS	32.1	-24.7	.43	35.83	54	-18.17	-	-	127	370	V
4	* 2.484	28.53	RMS	32.1	-24.7	.43	36.36	54	-17.64	-	-	127	370	V

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

Pk - Peak detector

RMS - RMS detection

Ch 11



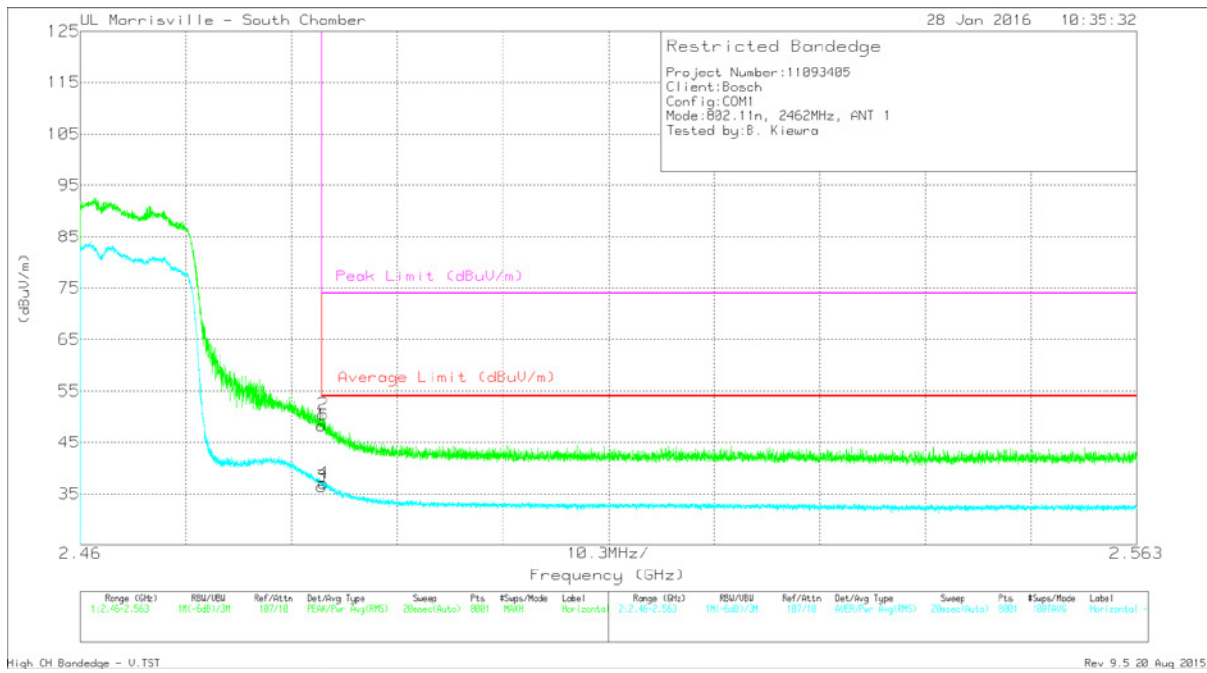
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.82	Pk	32.1	-24.7	0	56.22	-	-	74	-17.78	161	110	H
2	* 2.484	50.59	Pk	32.1	-24.7	0	57.99	-	-	74	-16.01	161	110	H
3	* 2.484	36.55	RMS	32.1	-24.7	.43	44.38	54	-9.62	-	-	161	110	H
4	* 2.484	37	RMS	32.1	-24.7	.43	44.83	54	-9.17	-	-	161	110	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (dB/m)	Amp/Cbl /Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.87	Pk	32.1	-24.7	0	48.27	-	-	74	-25.73	308	373	V
2	* 2.484	43.07	Pk	32.1	-24.7	0	50.47	-	-	74	-23.53	308	373	V
3	* 2.484	29.04	RMS	32.1	-24.7	.43	36.87	54	-17.13	-	-	308	373	V
4	* 2.484	29.67	RMS	32.1	-24.7	.43	37.5	54	-16.5	-	-	308	373	V

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

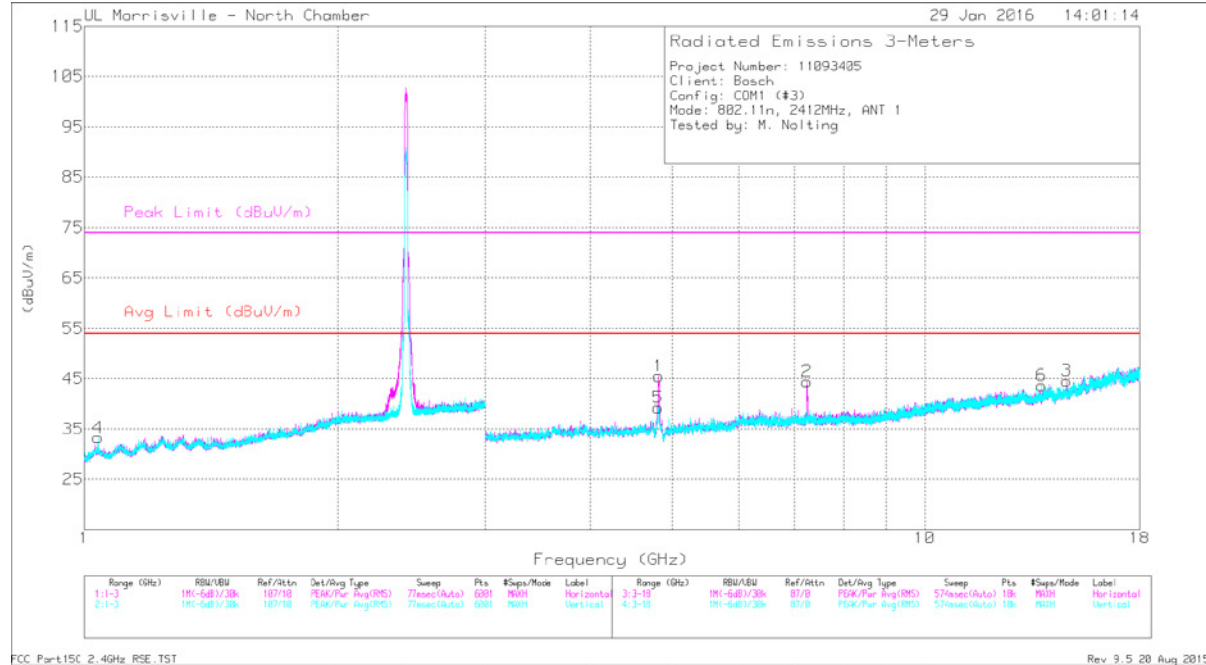
Pk - Peak detector

RMS - RMS detection

**HARMONICS AND SPURIOUS EMISSIONS**

Low Channel

Note – This test was performed with the low and high channels at mid-channel levels to achieve a worst-case maximum power.



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.031	37.46	PK2	27.9	-27.5	0	37.86	-	-	74	-36.14	124	101	V
	* 1.035	25.4	MAv1	28	-27.5	.43	26.33	54	-27.67	-	-	124	101	V
1	* 4.826	51.42	PK2	34.1	-32.2	0	53.32	-	-	74	-20.68	97	109	H
	* 4.823	39.61	MAv1	34.1	-32.2	.43	41.94	54	-12.06	-	-	97	109	H
5	* 4.823	45.47	PK2	34.1	-32.2	0	47.37	-	-	74	-26.63	45	101	V
	* 4.823	33.3	MAv1	34.1	-32.2	.43	35.63	54	-18.37	-	-	45	101	V
2	7.235	39.14	Pk	35.7	-30.4	0	44.44	-	-	-	-	0-360	101	H
6	13.768	32.74	Pk	39.1	-28.2	0	43.64	-	-	-	-	0-360	101	V
3	14.739	32.18	Pk	39.8	-27.4	0	44.58	-	-	-	-	0-360	101	H

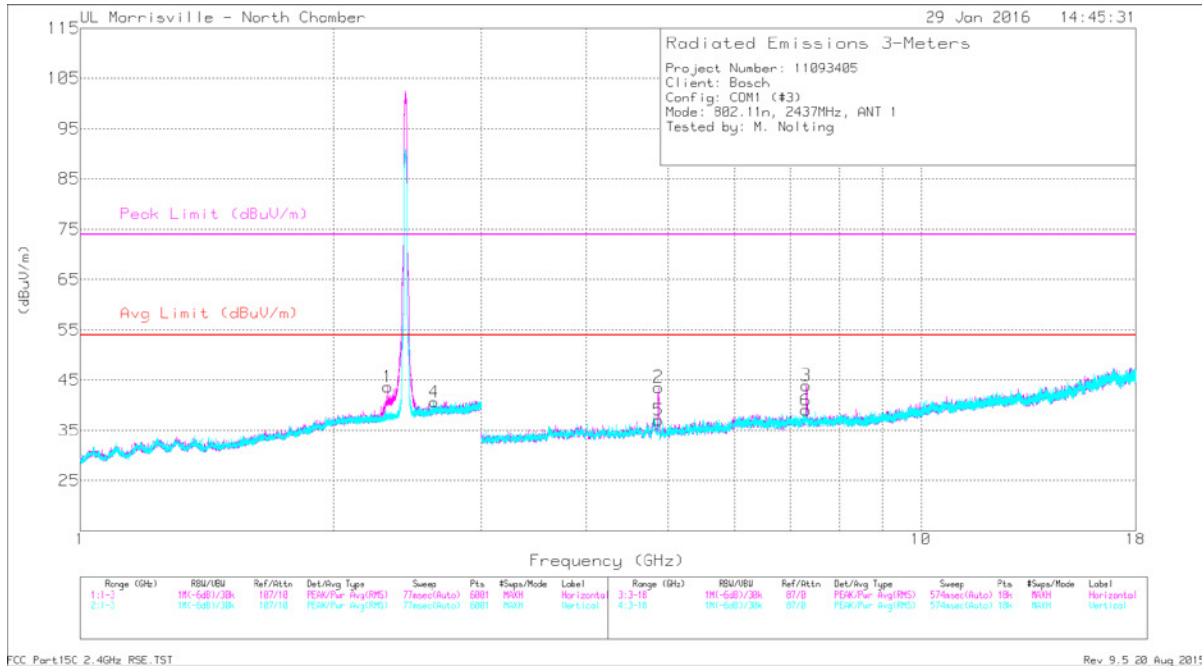
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

Mid Channel



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.32	42.4	PK2	31.7	-24.7	0	49.4	-	-	74	-24.6	284	131	H
	* 2.32	31.48	MAv1	31.7	-24.7	.43	38.91	54	-15.09	-	-	284	131	H
2	* 4.875	50.54	PK2	34.1	-32.3	0	52.34	-	-	74	-21.66	81	103	H
	* 4.873	38.7	MAv1	34.1	-32.2	.43	41.03	54	-12.97	-	-	81	103	H
3	* 7.31	47.23	PK2	35.7	-30	0	52.93	-	-	74	-21.07	106	101	H
	* 7.31	34.23	MAv1	35.7	-30	.43	40.36	54	-13.64	-	-	106	101	H
5	* 4.87	44.14	PK2	34.1	-32	0	46.24	-	-	74	-27.76	118	101	V
	* 4.874	32.25	MAv1	34.1	-32.2	.43	34.58	54	-19.42	-	-	118	101	V
6	* 7.309	43.78	PK2	35.7	-30	0	49.48	-	-	74	-24.52	20	397	V
	* 7.311	31.28	MAv1	35.7	-30	.43	37.41	54	-16.59	-	-	20	397	V
4	2.636	32.84	PK	32.3	-24.5	0	40.64	-	-	-	-	0-360	101	V

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

Pk - Peak detector

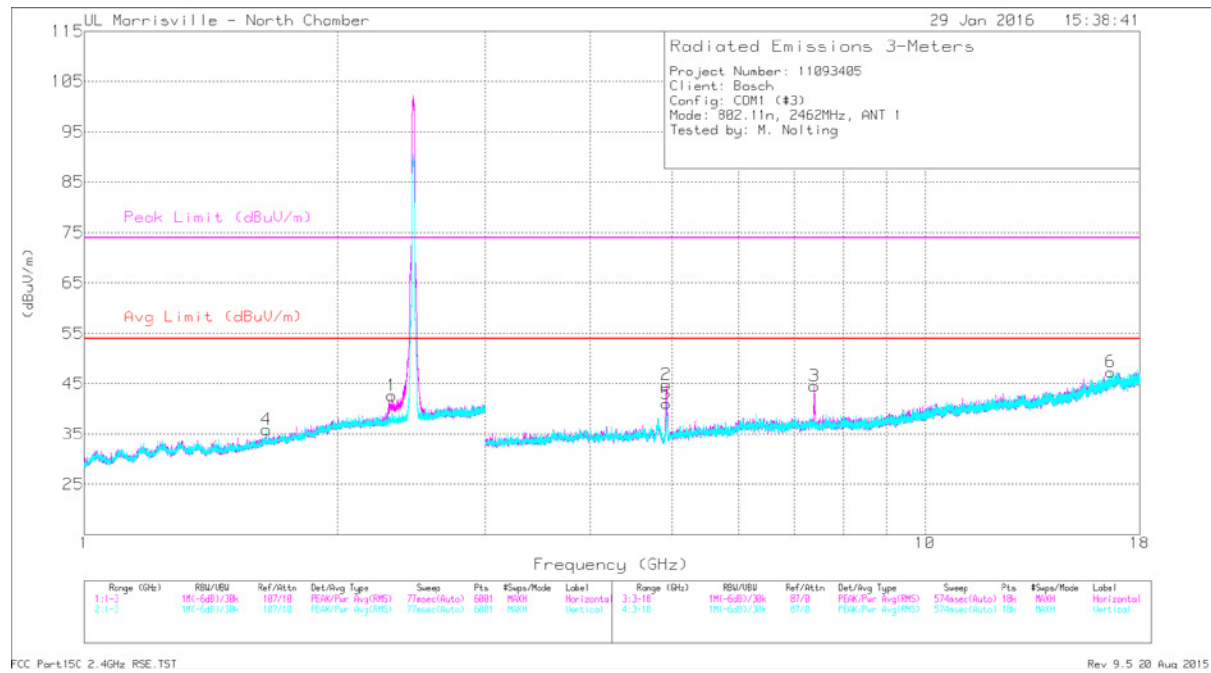
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average



High Channel

Note – This test was performed with the low and high channels at mid-channel levels to achieve a worst-case maximum power.



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.32	43.18	PK2	31.7	-24.7	0	50.18	-	-	74	-23.82	336	130	H
	* 2.32	31.68	MAv1	31.7	-24.7	.43	39.11	54	-14.89	-	-	336	130	H
2	* 4.922	49.19	PK2	34.1	-32.4	0	50.89	-	-	74	-23.11	27	109	H
	* 4.925	38.2	MAv1	34.1	-32.5	.43	40.23	54	-13.77	-	-	27	109	H
3	* 7.381	46.54	PK2	35.8	-30.1	0	52.24	-	-	74	-21.76	94	105	H
	* 7.382	33.47	MAv1	35.8	-30.1	.43	39.6	54	-14.4	-	-	94	105	H
5	* 4.925	44.46	PK2	34.1	-32.5	0	46.06	-	-	74	-27.94	112	277	V
	* 4.925	33.32	MAv1	34.1	-32.5	.43	35.35	54	-18.65	-	-	112	277	V
4	1.647	31.88	Pk	28.8	-24.8	0	35.88	-	-	-	-	0-360	200	V
6	16.629	29.54	Pk	42.1	-24.3	0	47.34	-	-	-	-	0-360	199	V

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

Pk - Peak detector

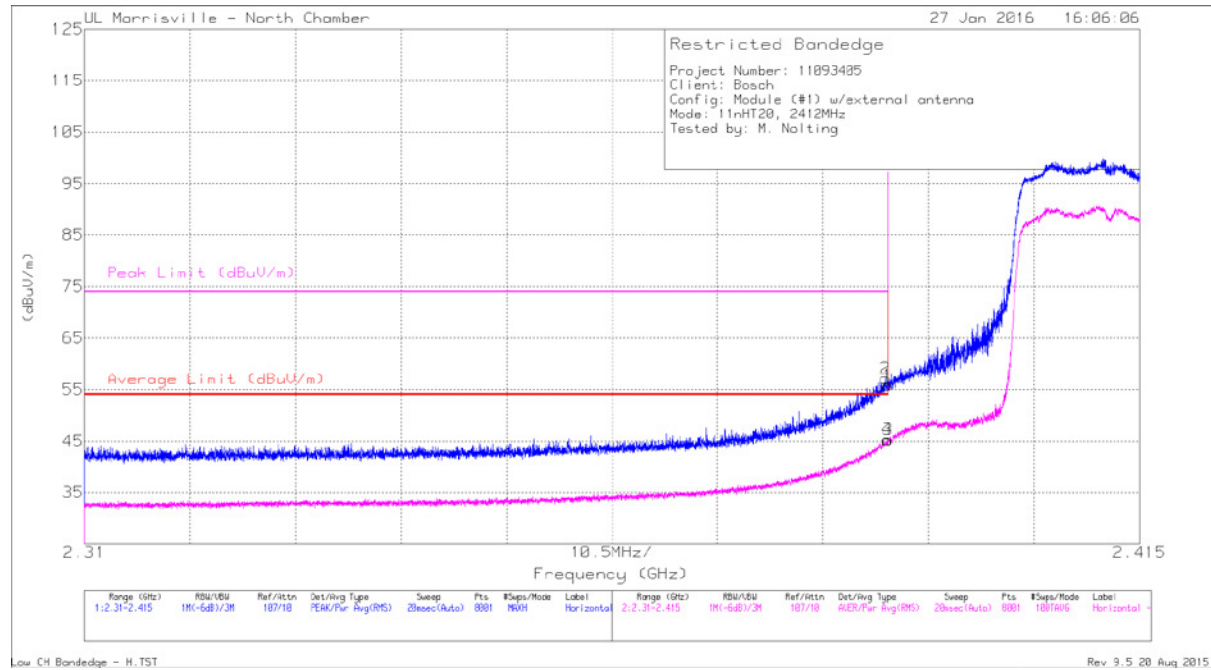
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

**External Antenna**

**RESTRICTED BANDEDGE (LOW CHANNEL)**

**Ch 1**



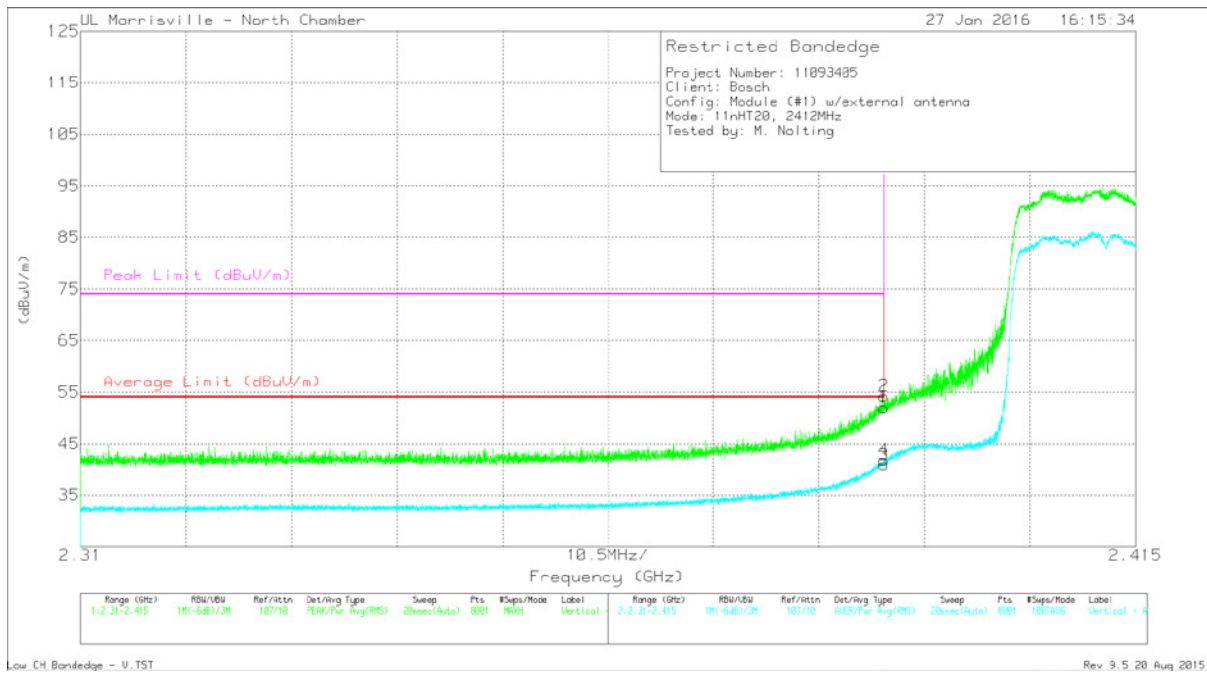
**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	48.72	Pk	31.9	-24.8	0	55.82	-	-	74	-18.18	309	164	H
2	* 2.39	50.04	Pk	31.9	-24.8	0	57.14	-	-	74	-16.86	309	164	H
3	* 2.39	37.73	RMS	31.9	-24.8	.43	45.26	54	-8.74	-	-	309	164	H
4	* 2.39	37.74	RMS	31.9	-24.8	.43	45.27	54	-8.73	-	-	309	164	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

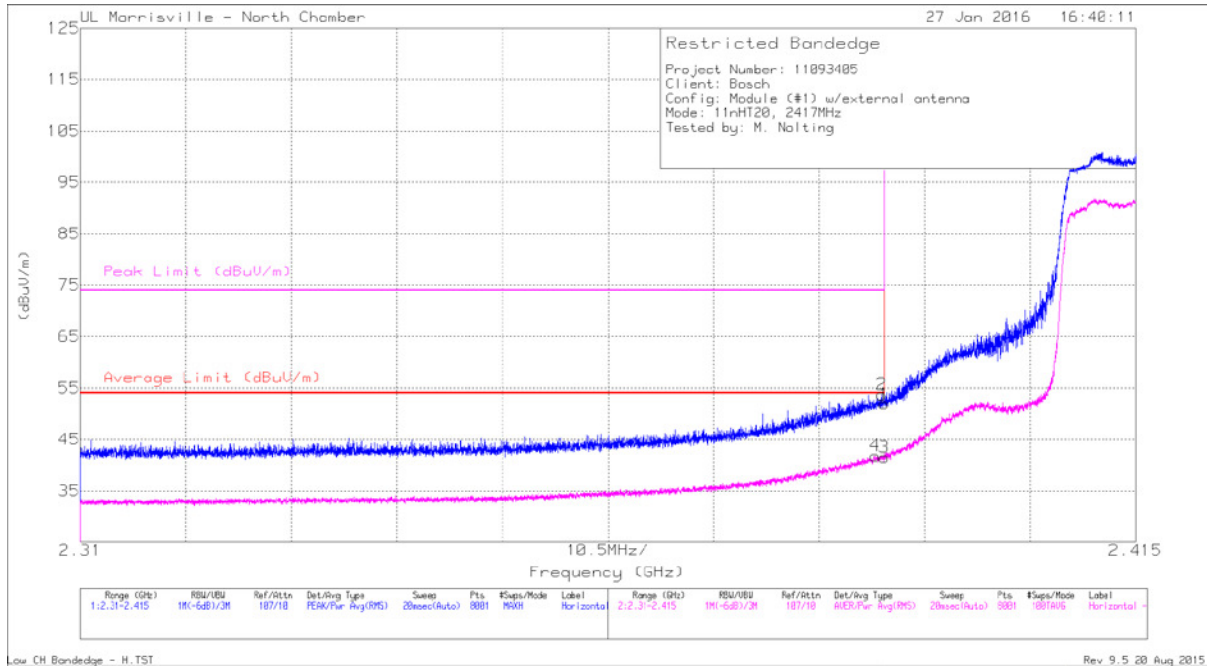
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.96	Pk	31.9	-24.8	0	52.06	-	-	74	-21.94	20	101	V
2	* 2.39	47.12	Pk	31.9	-24.8	0	54.22	-	-	74	-19.78	20	101	V
3	* 2.39	33.38	RMS	31.9	-24.8	.43	40.91	54	-13.09	-	-	20	101	V
4	* 2.39	34.27	RMS	31.9	-24.8	.43	41.8	54	-12.2	-	-	20	101	V

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

Pk - Peak detector

RMS - RMS detection

Ch 2



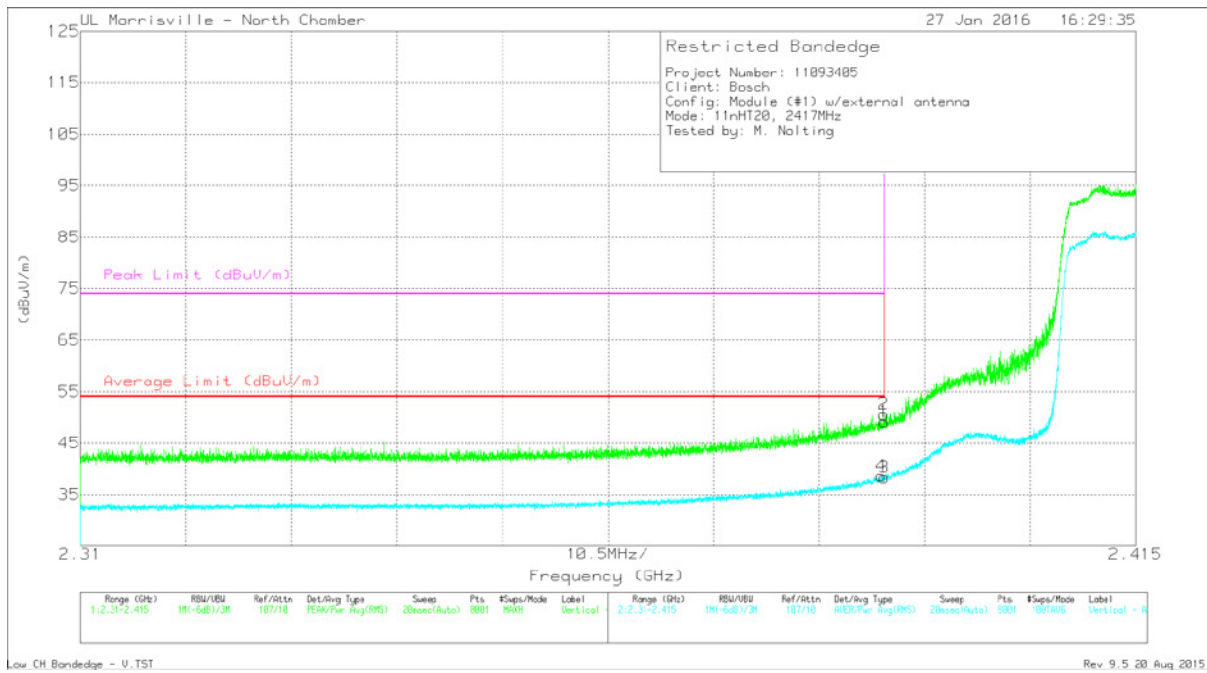
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.8	Pk	31.9	-24.8	0	51.9	-	-	74	-22.1	306	163	H
2	* 2.39	46.61	PK	31.9	-24.8	0	53.71	-	-	74	-20.29	306	163	H
3	* 2.39	33.97	RMS	31.9	-24.8	.43	41.5	54	-12.5	-	-	306	163	H
4	* 2.389	34.29	RMS	31.9	-24.8	.43	41.82	54	-12.18	-	-	306	163	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

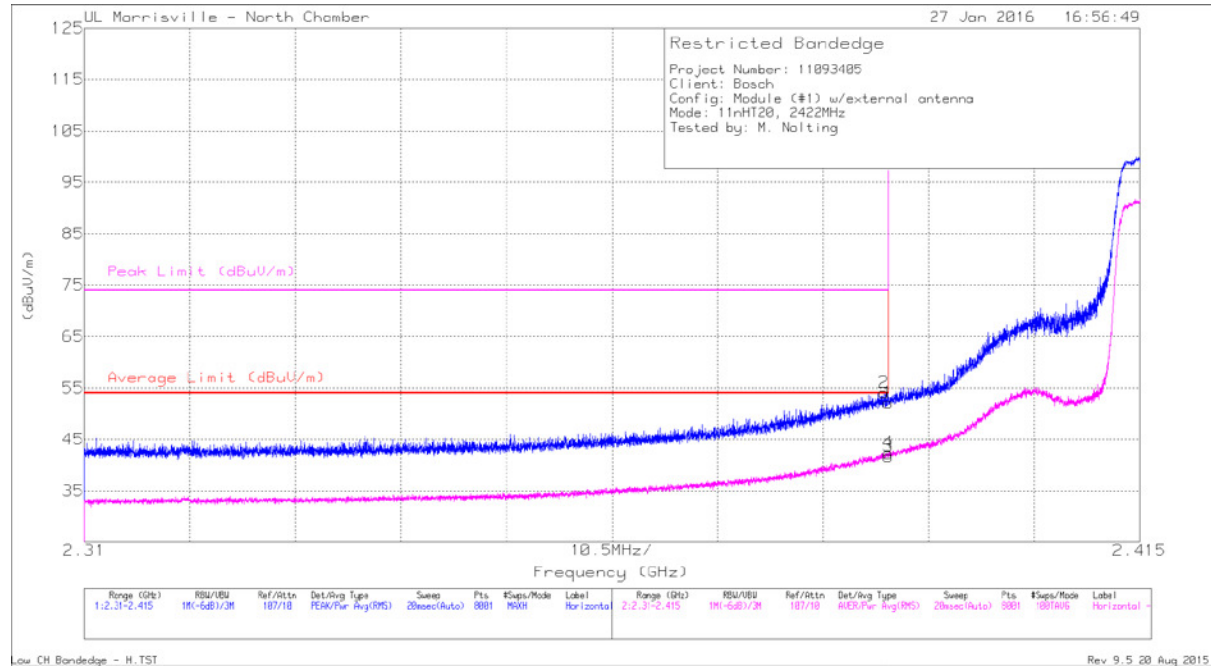
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl /Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	42.05	Pk	31.9	-24.8	0	49.15	-	-	74	-24.85	13	101	V
2	* 2.39	43.52	Pk	31.9	-24.8	0	50.62	-	-	74	-23.38	13	101	V
3	* 2.39	30.78	RMS	31.9	-24.8	.43	38.31	54	-15.69	-	-	13	101	V
4	* 2.39	31.05	RMS	31.9	-24.8	.43	38.58	54	-15.42	-	-	13	101	V

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

Pk - Peak detector

RMS - RMS detection

**Ch 3**



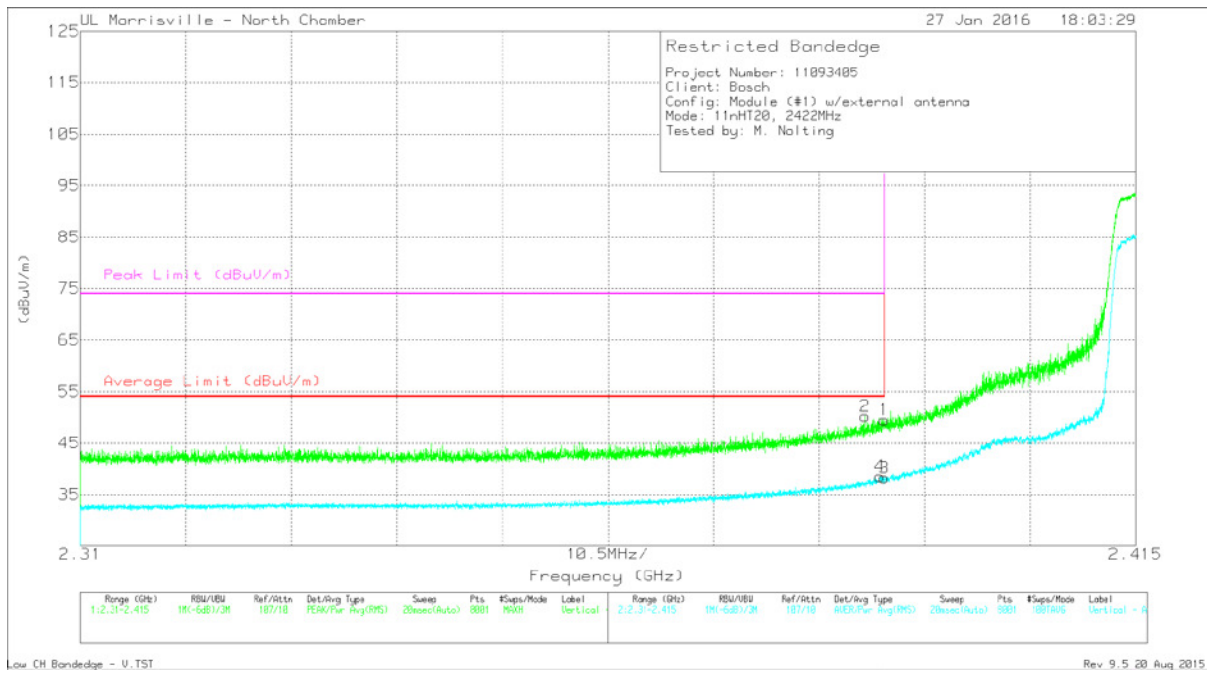
**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	45.01	Pk	31.9	-24.8	0	52.11	-	-	74	-21.89	296	165	H
2	* 2.39	47.01	Pk	31.9	-24.8	0	54.11	-	-	74	-19.89	296	165	H
3	* 2.39	34.19	RMS	31.9	-24.8	.43	41.72	54	-12.28	-	-	296	165	H
4	* 2.39	34.8	RMS	31.9	-24.8	.43	42.33	54	-11.67	-	-	296	165	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.388	43.08	Pk	31.9	-24.8	0	50.18	-	-	74	-23.82	20	101	V
1	* 2.39	42.41	Pk	31.9	-24.8	0	49.51	-	-	74	-24.49	20	101	V
3	* 2.39	30.69	RMS	31.9	-24.8	.43	38.22	54	-15.78	-	-	20	101	V
4	* 2.39	30.97	RMS	31.9	-24.8	.43	38.5	54	-15.5	-	-	20	101	V

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

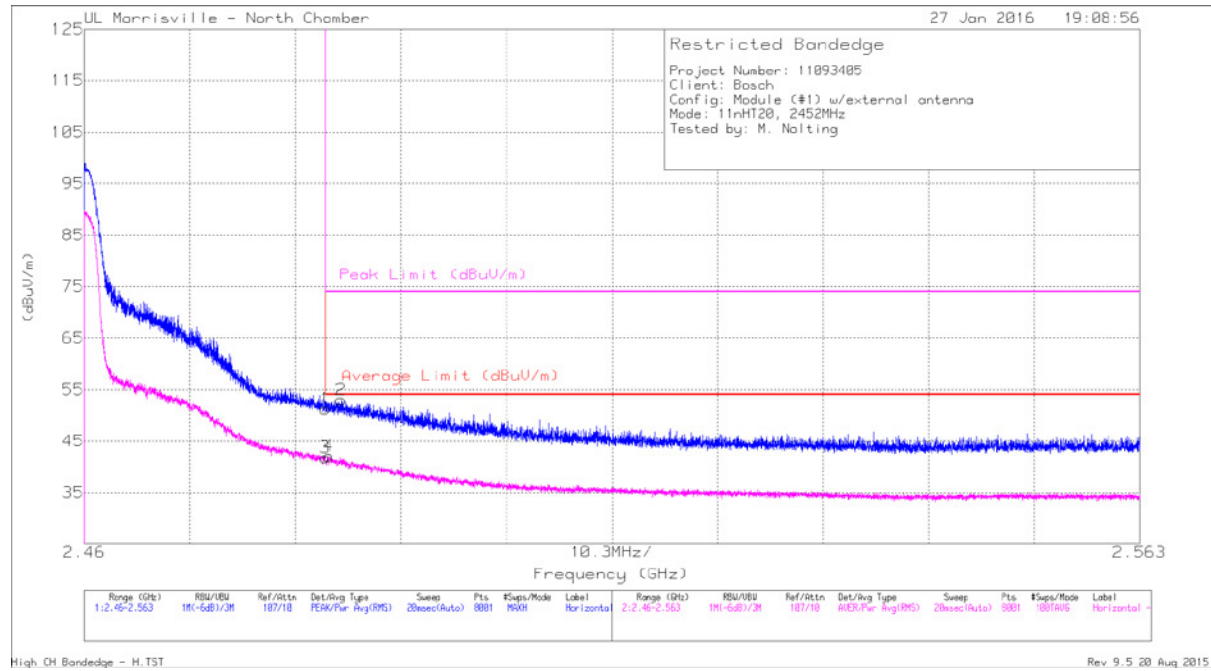
Pk - Peak detector

RMS - RMS detection



**AUTHORIZED BANDEDGE (HIGH CHANNEL)**

**Ch 9**



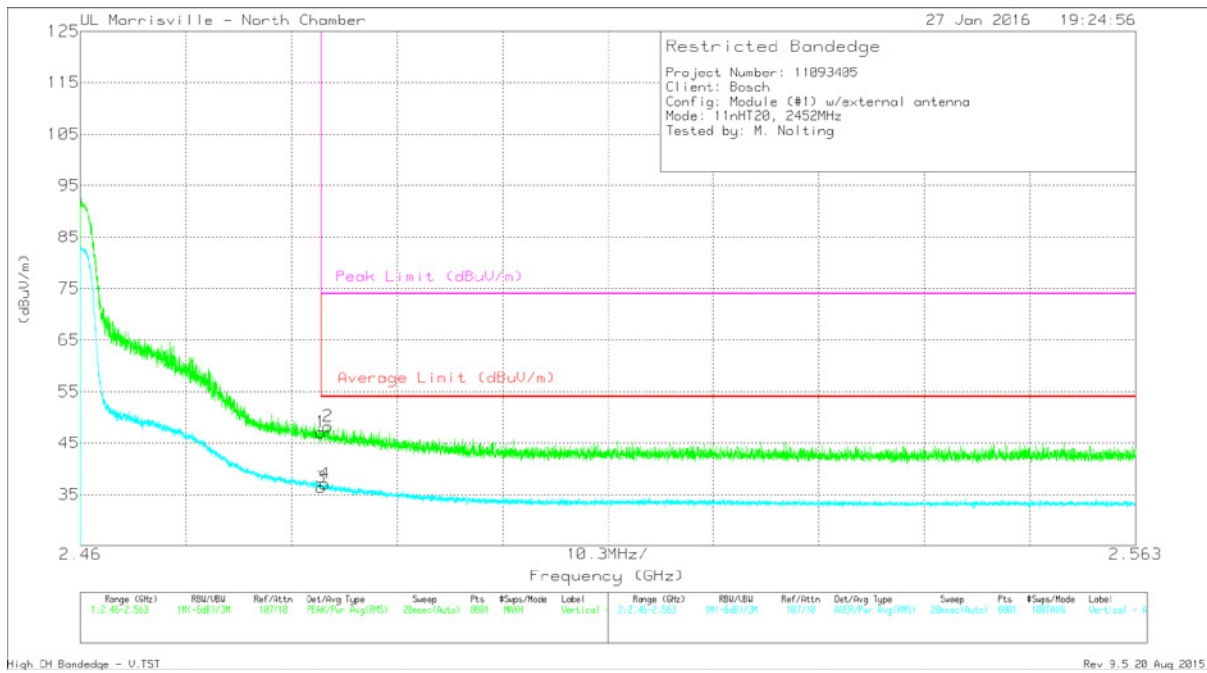
**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.91	Pk	32.1	-24.8	0	51.21	-	-	74	-22.79	294	175	H
2	* 2.485	45.72	Pk	32.1	-24.8	0	53.02	-	-	74	-20.98	294	175	H
3	* 2.484	34.08	RMS	32.1	-24.8	.43	41.81	54	-12.19	-	-	294	175	H
4	* 2.484	34.37	RMS	32.1	-24.8	.43	42.1	54	-11.9	-	-	294	175	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

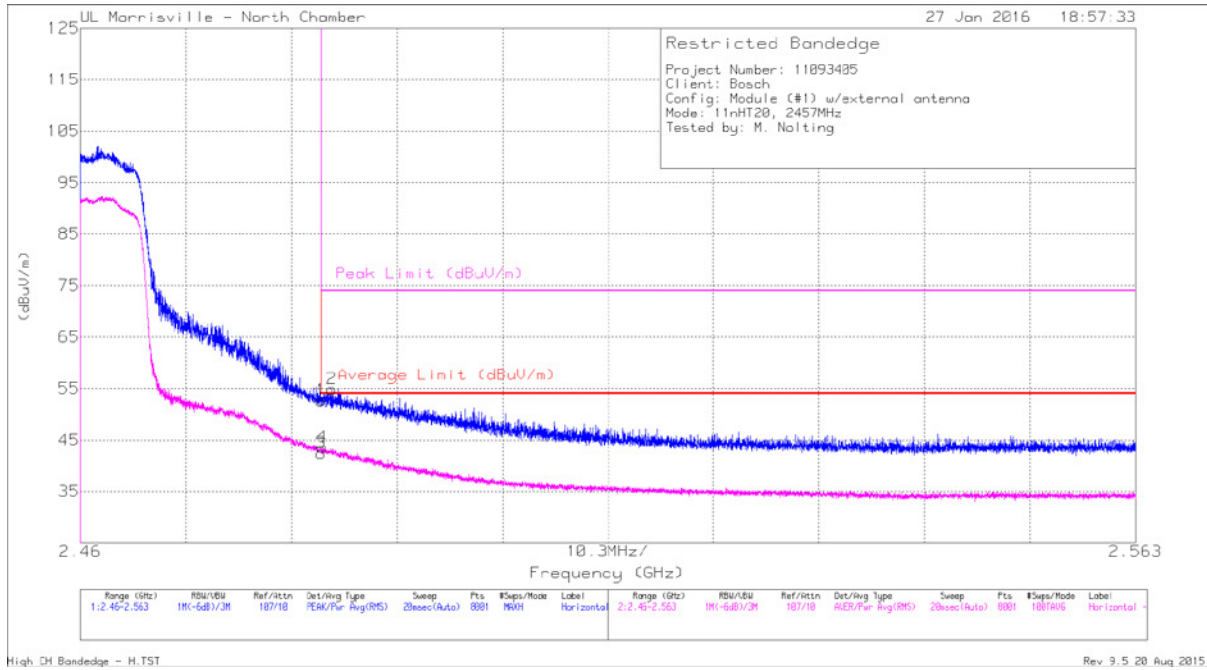
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl /Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.81	Pk	32.1	-24.8	0	47.11	-	-	74	-26.89	21	115	V
2	* 2.484	40.94	Pk	32.1	-24.8	0	48.24	-	-	74	-25.76	21	115	V
3	* 2.484	28.64	RMS	32.1	-24.8	.43	36.37	54	-17.63	-	-	21	115	V
4	* 2.484	29.36	RMS	32.1	-24.8	.43	37.09	54	-16.91	-	-	21	115	V

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

Pk - Peak detector

RMS - RMS detection

Ch 10



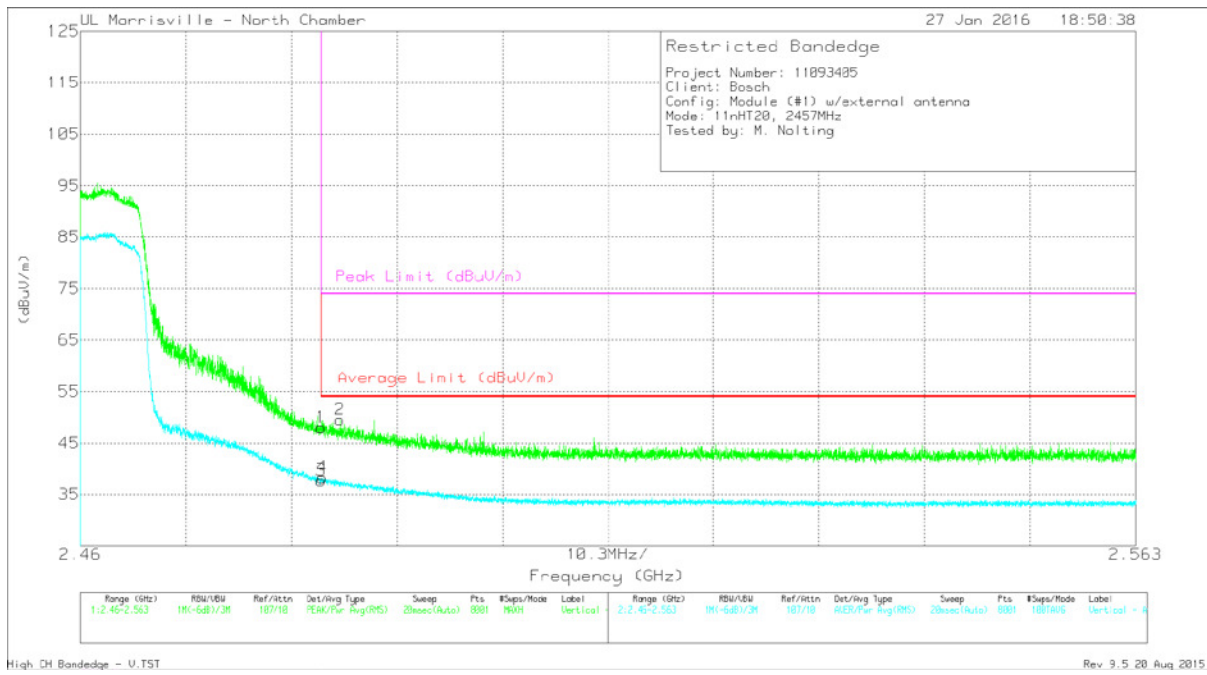
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.41	Pk	32.1	-24.8	0	52.71	-	-	74	-21.29	297	175	H
2	* 2.485	47.61	Pk	32.1	-24.8	0	54.91	-	-	74	-19.09	297	175	H
3	* 2.484	34.71	RMS	32.1	-24.8	.43	42.44	54	-11.56	-	-	297	175	H
4	* 2.484	35.88	RMS	32.1	-24.8	.43	43.61	54	-10.39	-	-	297	175	H

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

Pk - Peak detector

RMS - RMS detection



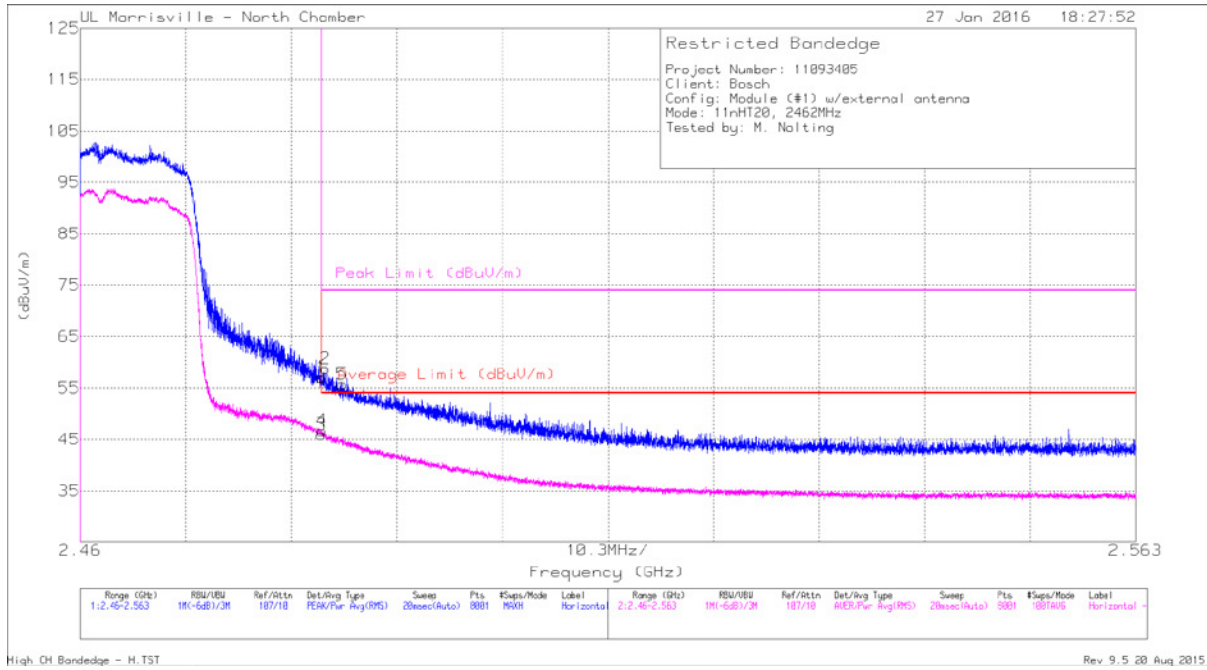
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl /Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.73	Pk	32.1	-24.8	0	48.03	-	-	74	-25.97	42	118	V
3	* 2.484	30.03	RMS	32.1	-24.8	.43	37.76	54	-16.24	-	-	42	118	V
4	* 2.484	30.57	RMS	32.1	-24.8	.43	38.3	54	-15.7	-	-	42	118	V
2	* 2.485	42.23	Pk	32.1	-24.8	0	49.53	-	-	74	-24.47	42	118	V

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

Pk - Peak detector  
 RMS - RMS detection

Ch 11



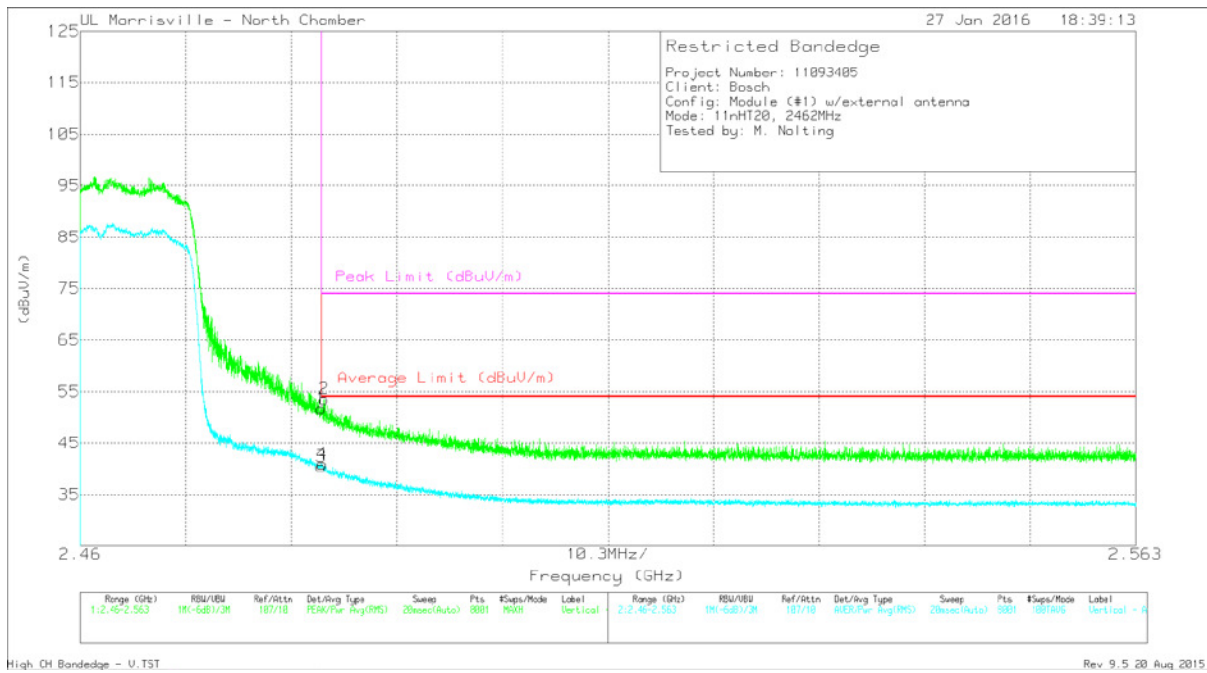
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	49.8	Pk	32.1	-24.8	0	57.1	-	-	74	-16.9	289	176	H
2	* 2.484	51.49	Pk	32.1	-24.8	0	58.79	-	-	74	-15.21	289	176	H
3	* 2.484	38.22	RMS	32.1	-24.8	.43	45.95	54	-8.05	-	-	289	176	H
4	* 2.484	38.96	RMS	32.1	-24.8	.43	46.69	54	-7.31	-	-	289	176	H
5	* 2.486	48.43	Pk	32.1	-24.8	0	55.73	-	-	74	-18.27	289	176	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl /Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.4	Pk	32.1	-24.8	0	51.7	-	-	74	-22.3	26	117	V
2	* 2.484	46.27	Pk	32.1	-24.8	0	53.57	-	-	74	-20.43	26	117	V
3	* 2.484	32.74	RMS	32.1	-24.8	.43	40.47	54	-13.53	-	-	26	117	V
4	* 2.484	33.16	RMS	32.1	-24.8	.43	40.89	54	-13.11	-	-	26	117	V

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

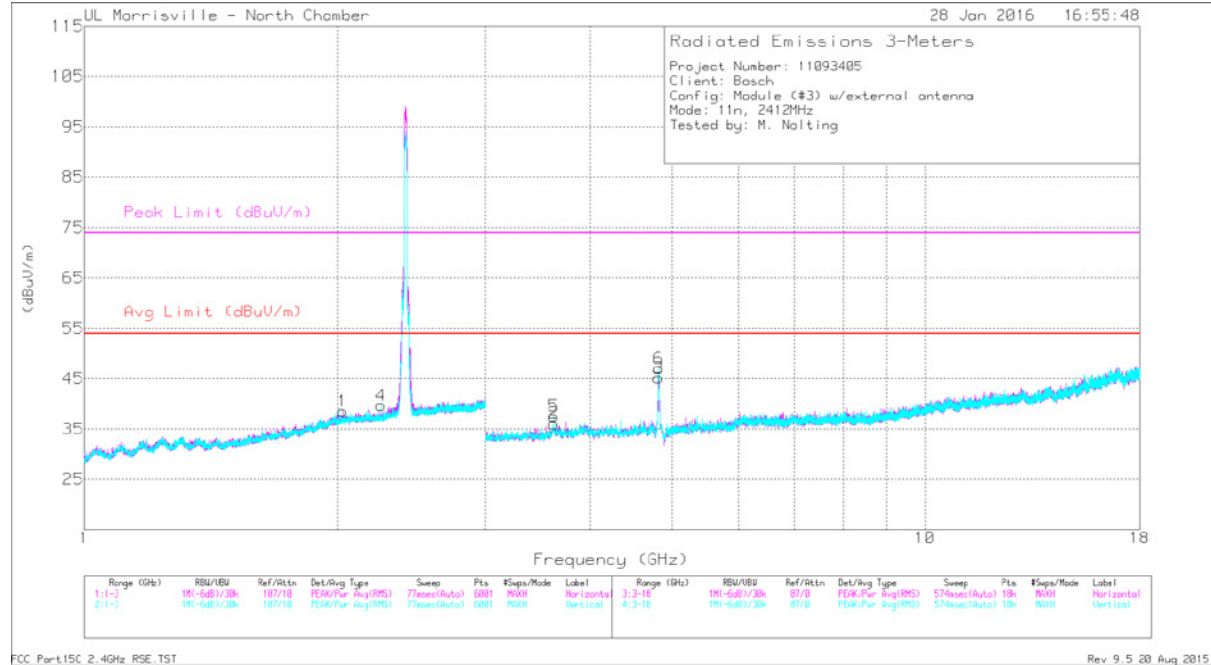
Pk - Peak detector

RMS - RMS detection

**HARMONICS AND SPURIOUS EMISSIONS**

Low Channel

Note – This test was performed with the low and high channels at mid-channel levels to achieve a worst-case maximum power.



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.261	37.04	PK2	31.6	-24.8	0	43.84	-	-	74	-30.16	69	200	V
	* 2.257	25.02	MAv1	31.6	-24.8	.43	32.25	54	-21.75	-	-	69	200	V
2	* 3.618	42.64	PK2	33.2	-32.2	0	43.64	-	-	74	-30.36	120	120	H
	* 3.618	32.34	MAv1	33.2	-32.2	.43	33.77	54	-20.23	-	-	120	120	H
3	* 4.821	52.47	PK2	34.1	-32.2	0	54.37	-	-	74	-19.63	125	102	H
	* 4.823	38.41	MAv1	34.1	-32.2	.43	40.74	54	-13.26	-	-	125	102	H
5	* 3.618	42.8	PK2	33.2	-32.2	0	43.8	-	-	74	-30.2	339	109	V
	* 3.618	33.15	MAv1	33.2	-32.2	.43	34.58	54	-19.42	-	-	339	109	V
6	* 4.818	53.09	PK2	34.1	-32.2	0	54.99	-	-	74	-19.01	119	104	V
	* 4.823	41.09	MAv1	34.1	-32.2	.43	43.42	54	-10.58	-	-	119	104	V
1	2.029	31.65	Pk	31.7	-24.8	0	38.55	-	-	-	-	0-360	101	H

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

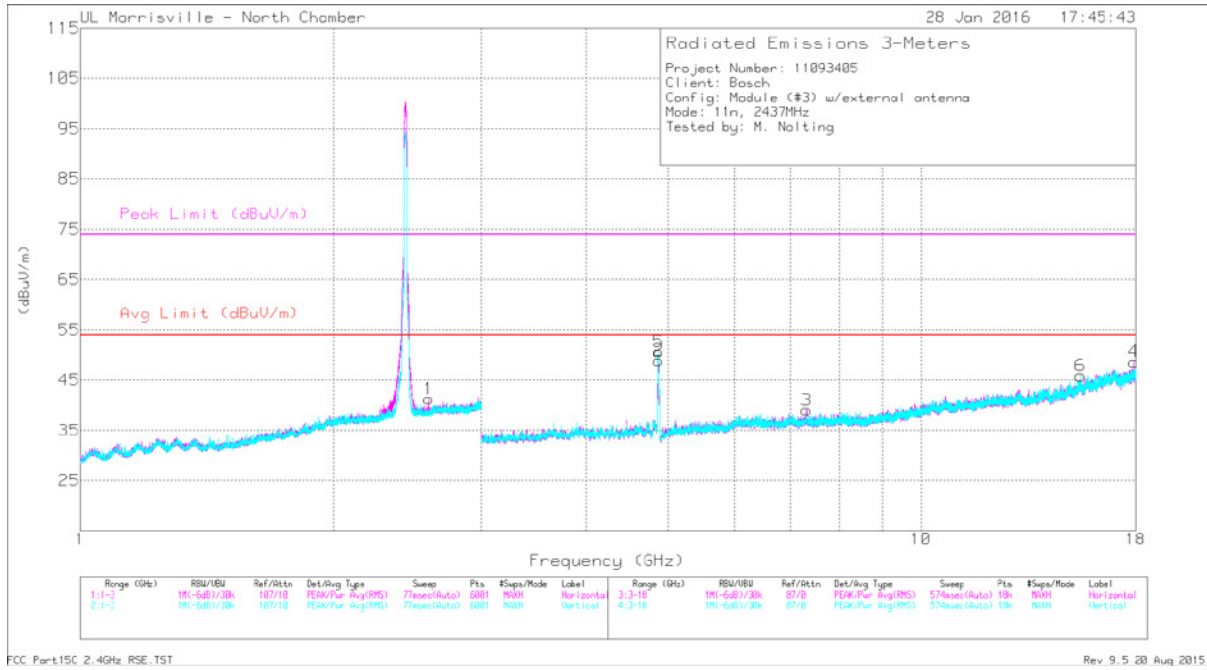
Pk - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average



Mid Channel



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.873	54.33	PK2	34.1	-32.2	0	56.23	-	-	74	-17.77	20	108	H
	* 4.873	43.24	MAv1	34.1	-32.1	.43	45.67	54	-8.33	-	-	20	108	H
3	* 7.314	42.19	PK2	35.7	-30	0	47.89	-	-	74	-26.11	148	115	H
	* 7.309	28.61	MAv1	35.7	-30	.43	34.74	54	-19.26	-	-	148	115	H
4	* 17.905	35.06	PK2	42	-24.4	0	52.66	-	-	74	-21.34	293	199	H
	* 17.911	24.15	MAv1	42	-24.7	.43	41.88	54	-12.12	-	-	293	199	H
5	* 4.873	56.44	PK2	34.1	-32.2	0	58.34	-	-	74	-15.66	121	101	V
	* 4.873	45.59	MAv1	34.1	-32.2	.43	47.92	54	-6.08	-	-	121	101	V
6	* 15.483	35.31	PK2	40.4	-24.6	0	51.11	-	-	74	-22.89	49	101	V
	* 15.477	23.97	MAv1	40.4	-24.9	.43	39.90	54	-14.10	-	-	49	101	V
1	2.597	33.67	Pk	32.2	-24.6	0	41.27	-	-	-	-	0-360	101	H

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

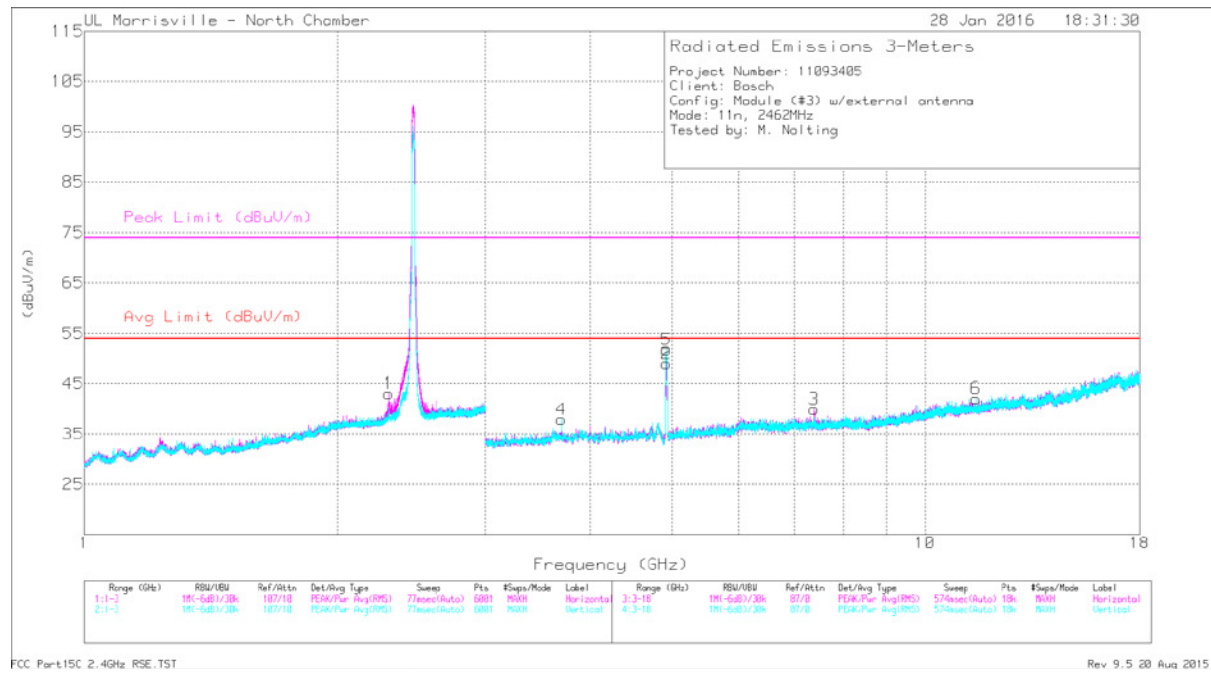
Pk - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

High Channel

Note – This test was performed with the low and high channels at mid-channel levels to achieve a worst-case maximum power.



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.923	52.91	PK2	34.1	-32.5	0	54.51	-	-	74	-19.49	21	101	H
	* 4.923	42.55	MAv1	34.1	-32.5	.43	44.58	54	-9.42	-	-	21	101	H
3	* 7.393	44.55	PK2	35.8	-30.1	0	50.25	-	-	74	-23.75	155	106	H
	* 7.38	29.79	MAv1	35.8	-30.1	.43	35.92	54	-18.08	-	-	155	106	H
4	* 3.693	43.13	PK2	33.3	-32.6	0	43.83	-	-	74	-30.17	134	109	V
	* 3.693	34.65	MAv1	33.3	-32.6	.43	35.78	54	-18.22	-	-	134	109	V
5	* 4.923	55.65	PK2	34.1	-32.5	0	57.25	-	-	74	-16.75	17	105	V
	* 4.925	45.08	MAv1	34.1	-32.5	.43	47.11	54	-6.89	-	-	17	105	V
6	* 11.497	35.69	PK2	38.3	-26.9	0	47.09	-	-	74	-26.91	38	200	V
	* 11.502	23.83	MAv1	38.3	-26.8	.43	35.76	54	-18.24	-	-	38	200	V
1	2.302	36.05	Pk	31.7	-24.7	0	43.05	-	-	-	-	0-360	101	H

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

Pk - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

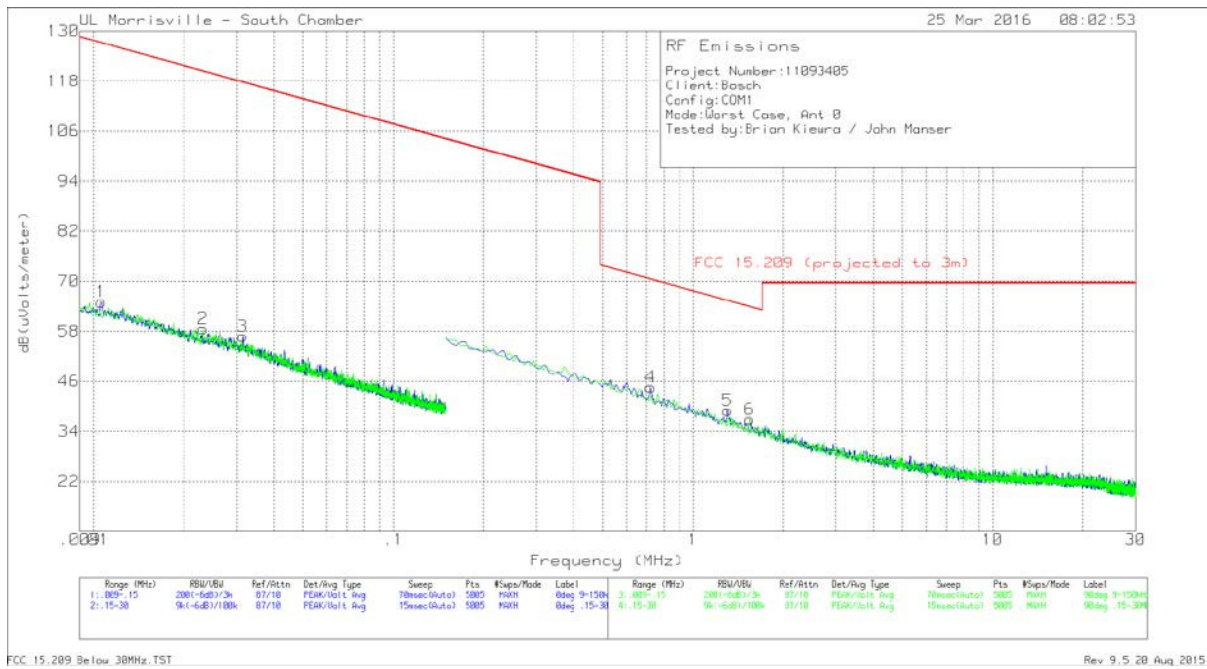
### 9.3. WORST-CASE BELOW 1 GHz

#### 9.3.1. SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIG.)

**Note:** All measurements were made at a test distance of 3 m. The limits in the plots and tabular data are the FCC/IC limits extrapolated from the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz – 30 MHz) to the measurement distance to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were  $40 \cdot \log$  (specification distance / test distance).

Chain 0 (Internal Antenna)

Note – This test was performed with the test channel at mid-channel levels to achieve a worst-case maximum power.



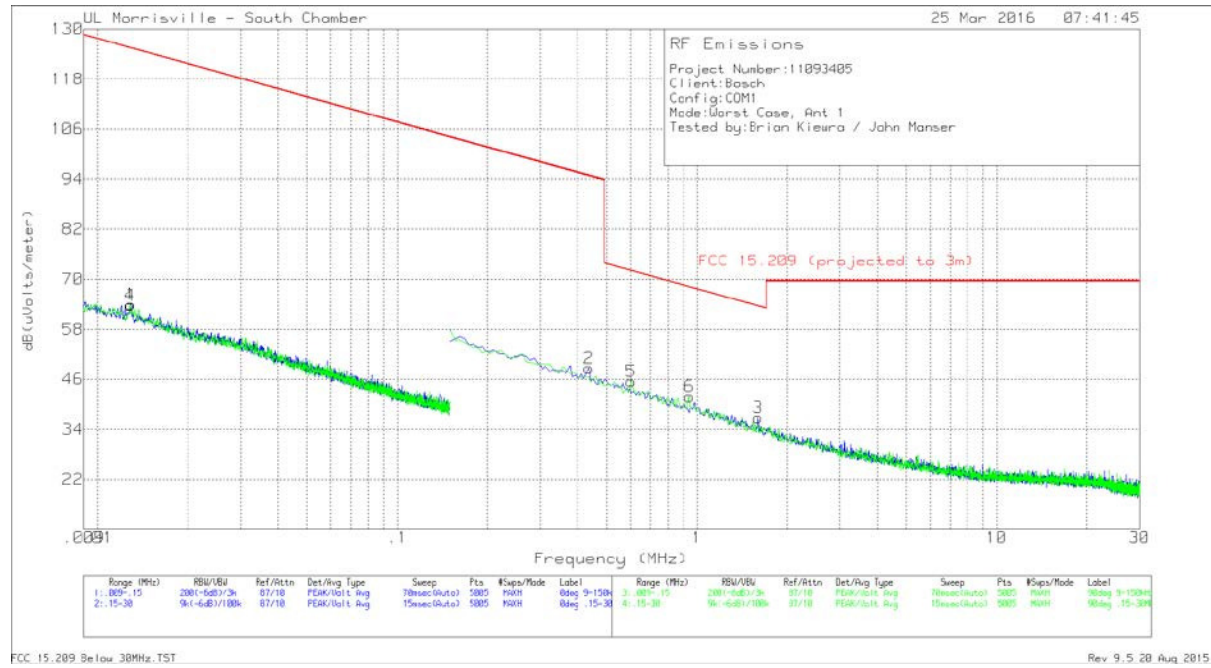
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Cbl (dB)	Corrected Reading dB(uV/m)	FCC 15.209 (projected to 3m)	Margin (dB)	Azimuth (Degs)
1	.0106	45.73	Pk	19.2	.1	65.03	127.1	-62.07	0-360
2	.02314	44.19	Pk	14.3	.1	58.59	120.32	-61.73	0-360
3	.03146	43.16	Pk	13.5	.1	56.76	117.65	-60.89	0-360
4	.72264	34.09	Pk	10.4	.1	44.59	70.43	-25.84	0-360
5	1.30721	28.3	Pk	10.5	.2	39	65.28	-26.28	0-360
6	1.54581	26.17	Pk	10.5	.2	36.87	63.82	-26.95	0-360

Pk - Peak detector  
 FCC 15.209 Below 30MHz.TST  
 Rev 9.5 20 Aug 2015

Chain 1

Note – This test was performed with the test channel at mid-channel levels to achieve a worst-case maximum power.



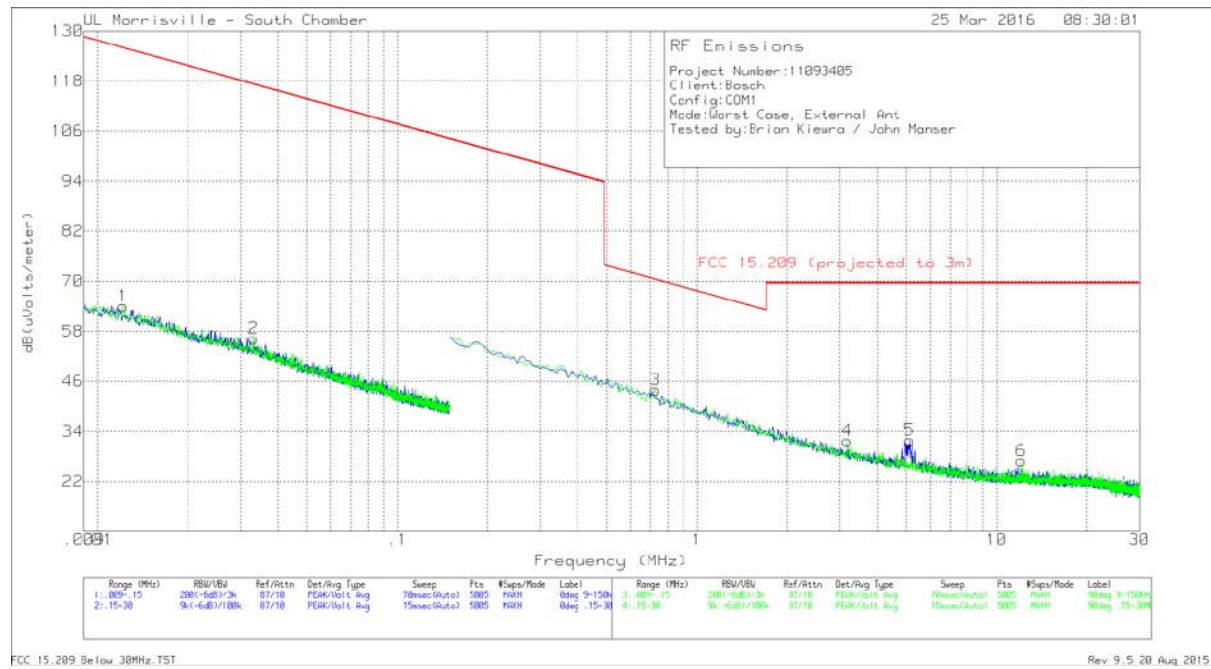
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Cbl (dB)	Corrected Reading dB(uV/m)	FCC 15.209 (projected to 3m)	Margin (dB)	Azimuth (Degs)
4	.01284	45.52	Pk	18.1	.1	63.72	125.44	-61.72	0-360
1	.01292	45.77	Pk	18.1	.1	63.97	125.38	-61.41	0-360
2	.43632	38.22	Pk	10.3	.1	48.62	94.81	-46.19	0-360
5	.60334	34.98	Pk	10.4	.1	45.48	71.99	-26.51	0-360
6	.94335	31.36	Pk	10.4	.1	41.86	68.11	-26.25	0-360
3	1.5995	26.09	Pk	10.5	.2	36.79	63.52	-26.73	0-360

Pk - Peak detector  
 FCC 15.209 Below 30MHz.TST  
 Rev 9.5 20 Aug 2015

**External Antenna**

Note – This test was performed with the test channel at mid-channel levels to achieve a worst-case maximum power.



**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Cbl (dB)	Corrected Reading dB(uV/m)	FCC 15.209 (projected to 3m)	Margin (dB)	Azimuth (Degs)
1	.01216	45.49	Pk	18.4	.1	63.99	125.9	-61.91	0-360
2	.03316	42.88	Pk	13.3	.1	56.28	117.19	-60.91	0-360
3	.72861	33.43	Pk	10.4	.1	43.93	70.35	-26.42	0-360
4	3.18022	20.97	Pk	10.5	.3	31.77	69.54	-37.77	0-360
5	5.12481	20.86	Pk	10.6	.4	31.86	69.54	-37.68	0-360
6	12.08	15.63	Pk	10.7	.6	26.93	69.54	-42.61	0-360

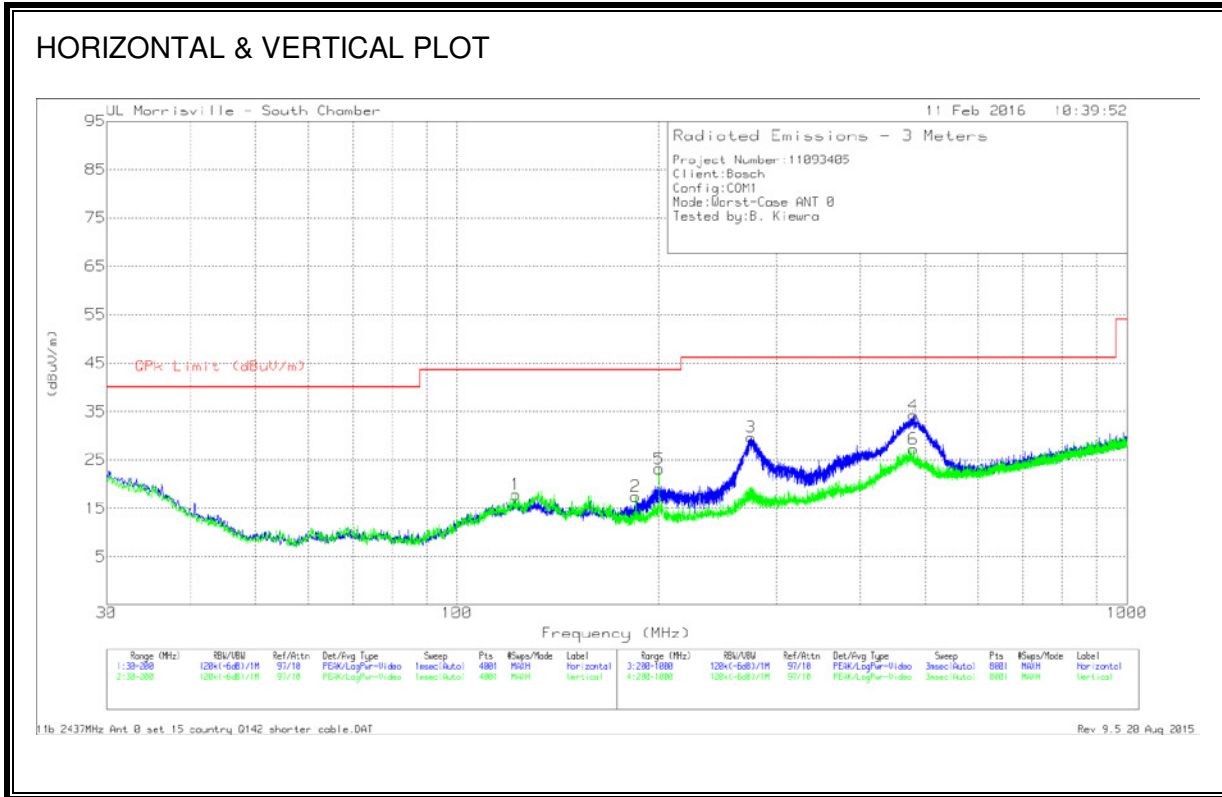
Pk - Peak detector  
 FCC 15.209 Below 30MHz.TST  
 Rev 9.5 20 Aug 2015



### 9.3.2. SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIG.)

#### Chain 0 (Internal Antenna)

Note – This test was performed with the test channel at mid-channel levels to achieve a worst-case maximum power.



#### Data

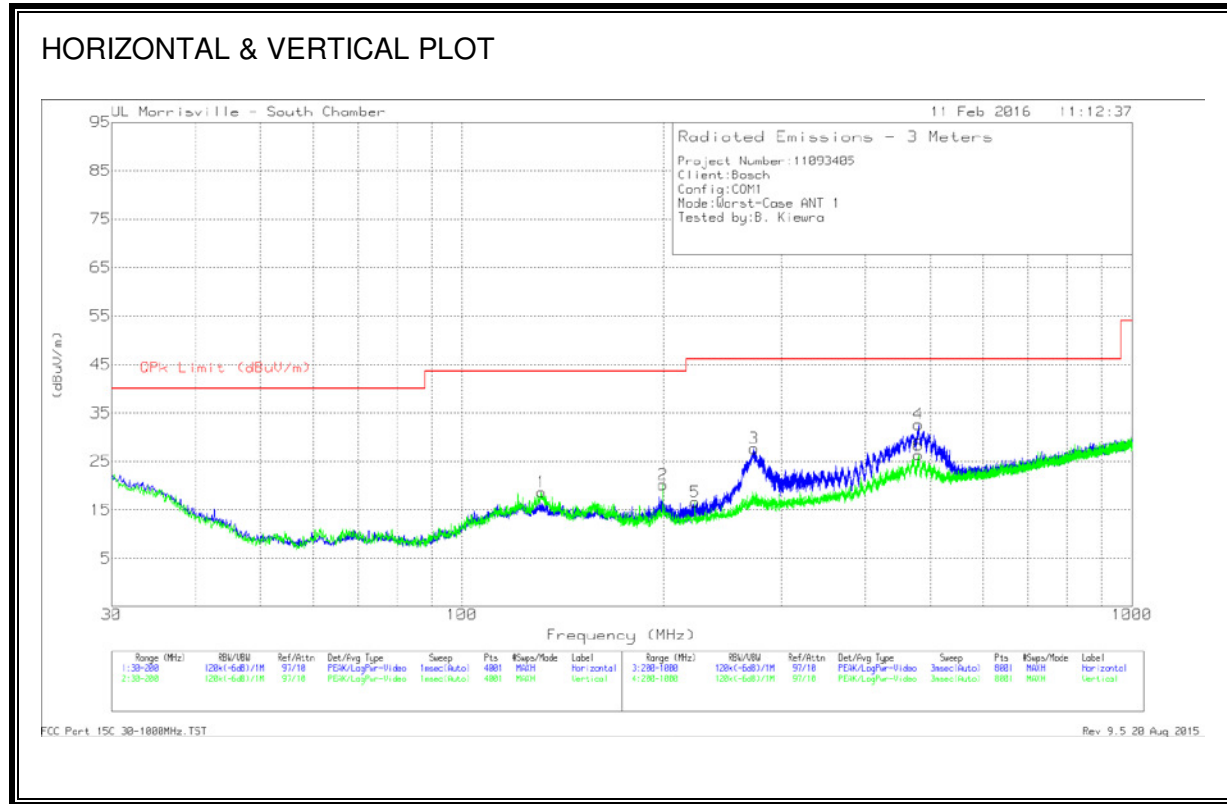
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF AT0074 (dB/m)	Port 0 Factors	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 122.395	30.46	Pk	18.1	-30.7	17.86	43.52	-25.66	0-360	102	V
3	* 274.4	41.57	Pk	17.8	-29.7	29.67	46.02	-16.35	0-360	102	H
2	184.87	32.05	Pk	15.7	-30.3	17.45	43.52	-26.07	0-360	102	V
5	200.3	36.05	Pk	17.4	-30.3	23.15	43.52	-20.37	0-360	102	V
4	480	41.04	Pk	22.1	-28.9	34.24	46.02	-11.78	0-360	199	H
6	480	34.06	Pk	22.1	-28.9	27.26	46.02	-18.76	0-360	199	V

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



**Chain 1**

Note – This test was performed with the test channel at mid-channel levels to achieve a worst-case maximum power.



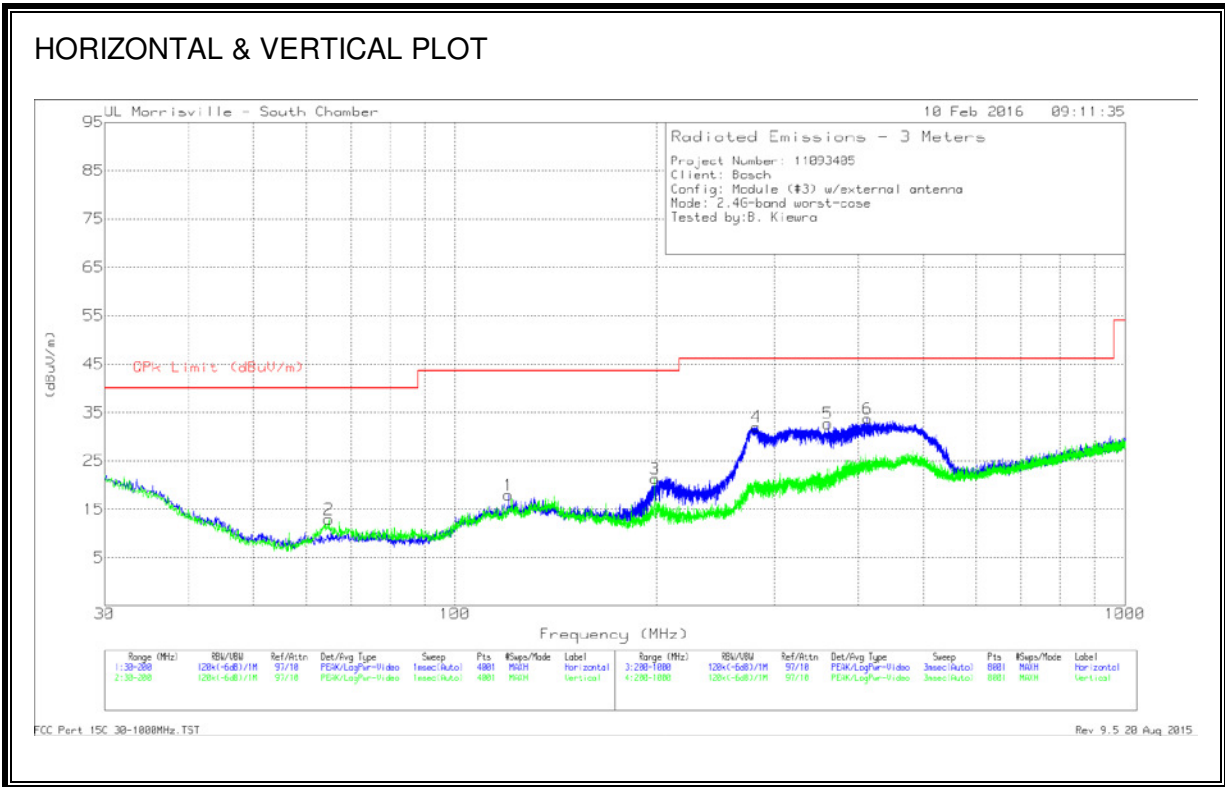
**Data**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF AT0074 (dB/m)	Port 0 Factors	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 131.49	31.43	Pk	18.1	-30.8	18.73	43.52	-24.79	0-360	102	V
3	* 272.9	39.67	Pk	17.8	-29.8	27.67	46.02	-18.35	0-360	102	H
2	199.575	32.99	Pk	17.5	-30.3	20.19	43.52	-23.33	0-360	102	V
5	222.7	31.21	Pk	15.5	-30.1	16.61	46.02	-29.41	0-360	299	V
4	480	39.48	Pk	22.1	-28.9	32.68	46.02	-13.34	0-360	199	H
6	480	33.14	Pk	22.1	-28.9	26.34	46.02	-19.68	0-360	199	V

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

**External Antenna**

Note – This test was performed with the test channel at mid-channel levels to achieve a worst-case maximum power.



**Data**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF AT0074 (dB/m)	Port 0 Factors	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 120.1425	30.7	Pk	18	-30.8	17.9	43.52	-25.62	0-360	399	H
4	* 281.5	43.93	Pk	17.8	-29.7	32.03	46.02	-13.99	0-360	102	H
2	64.85	32.13	Pk	12.2	-31.4	12.93	40	-27.07	0-360	102	V
3	198.7675	34.02	Pk	17.6	-30.3	21.32	43.52	-22.2	0-360	102	V
5	360.1	42.4	Pk	19.7	-29.4	32.7	46.02	-13.32	0-360	102	H
6	412.8	42.12	Pk	20.8	-29.2	33.72	46.02	-12.3	0-360	102	H

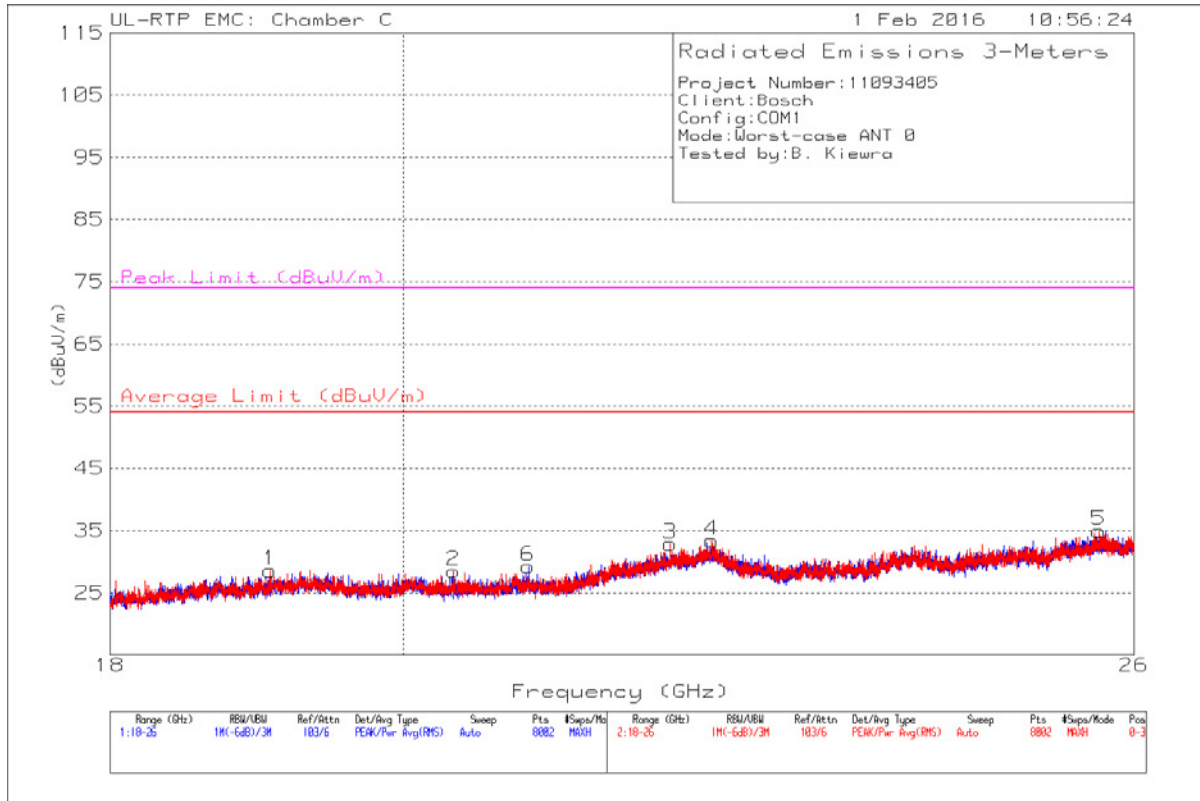
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector

## 9.4. WORST-CASE 18-26GHz

### 9.4.1. SPURIOUS EMISSIONS 18 TO 26GHz (2.4GHz BAND)

#### Chain 0 (Internal Antenna)

Note – This test was performed with the test channel at mid-channel levels to achieve a worst-case maximum power.



#### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 20.917	48.27	PK2	33.2	-40.6	0	40.87	54	-13.13	74	-33.13	257	369	H
1	* 19.064	48.47	PK2	32.6	-40.9	0	40.17	54	-13.83	74	-33.83	307	400	V
2	* 20.364	48.9	PK2	32.9	-41	0	40.8	54	-13.20	74	-33.2	63	339	V
3	* 22.011	48.28	PK2	36.7	-40.5	0	44.48	54	-9.52	74	-29.52	138	386	V
4	* 22.343	48.61	PK2	36	-40.4	0	44.21	54	-9.79	74	-29.79	217	329	V
5	25.676	39	PK	34	-38	0	35	-	-	-	-	0-360	200	V

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

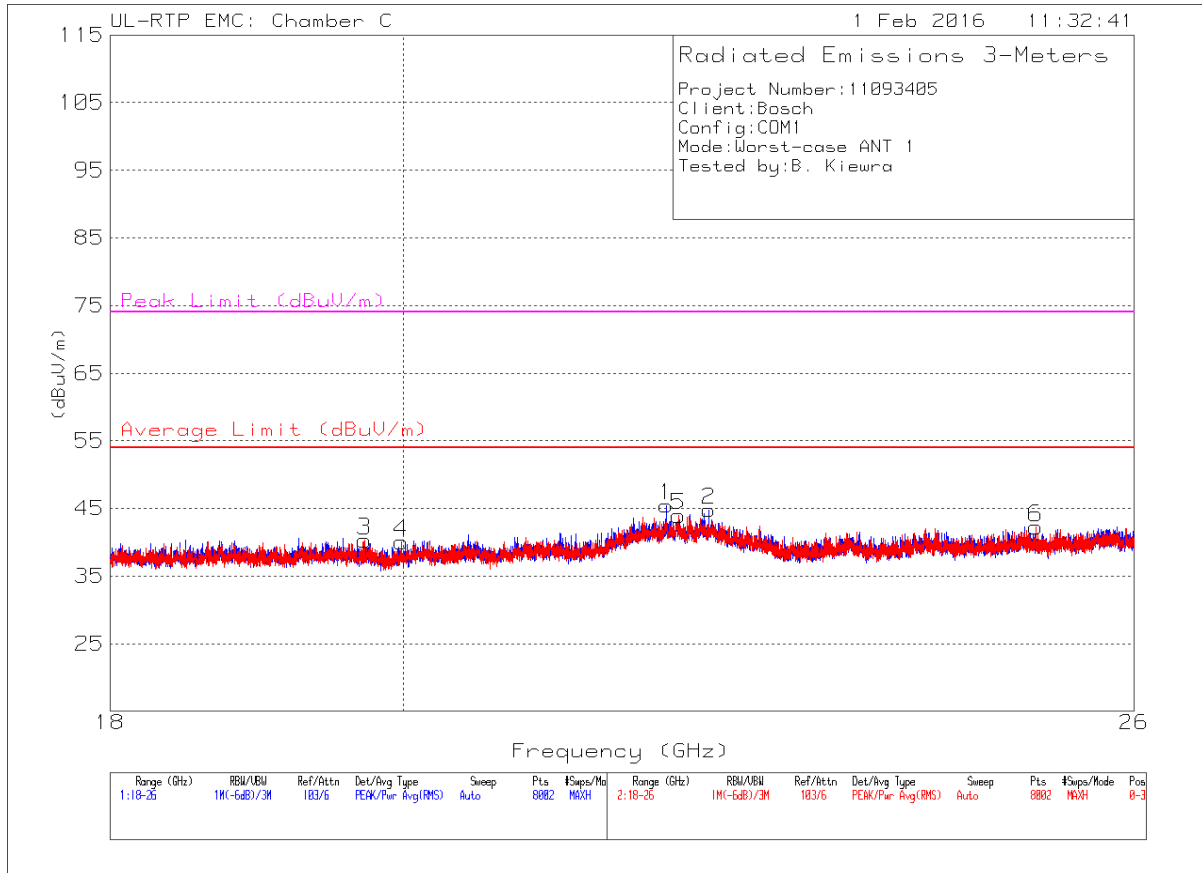
PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

**Chain 1**

Note – This test was performed with the test channel at mid-channel levels to achieve a worst-case maximum power.



**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 22.319	48.09	PK2	36.2	-40.5	0	43.79	54	-10.21	74	-30.21	227	147	H
3	* 19.722	48.55	PK2	32.7	-41	0	40.25	54	-13.75	74	-33.75	285	315	V
4	* 19.986	48.83	PK2	32.6	-41.1	0	40.33	54	-13.67	74	-33.67	58	151	V
5	* 22.077	48.79	PK2	36.6	-40.7	0	44.69	54	-9.31	74	-29.31	20	345	V
1	21.981	49.47	Pk	36.6	-40.6	0	45.47	-	-	-	-	0-360	150	H
6	25.101	46.84	Pk	33.8	-38.4	0	42.24	-	-	-	-	0-360	125	V

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

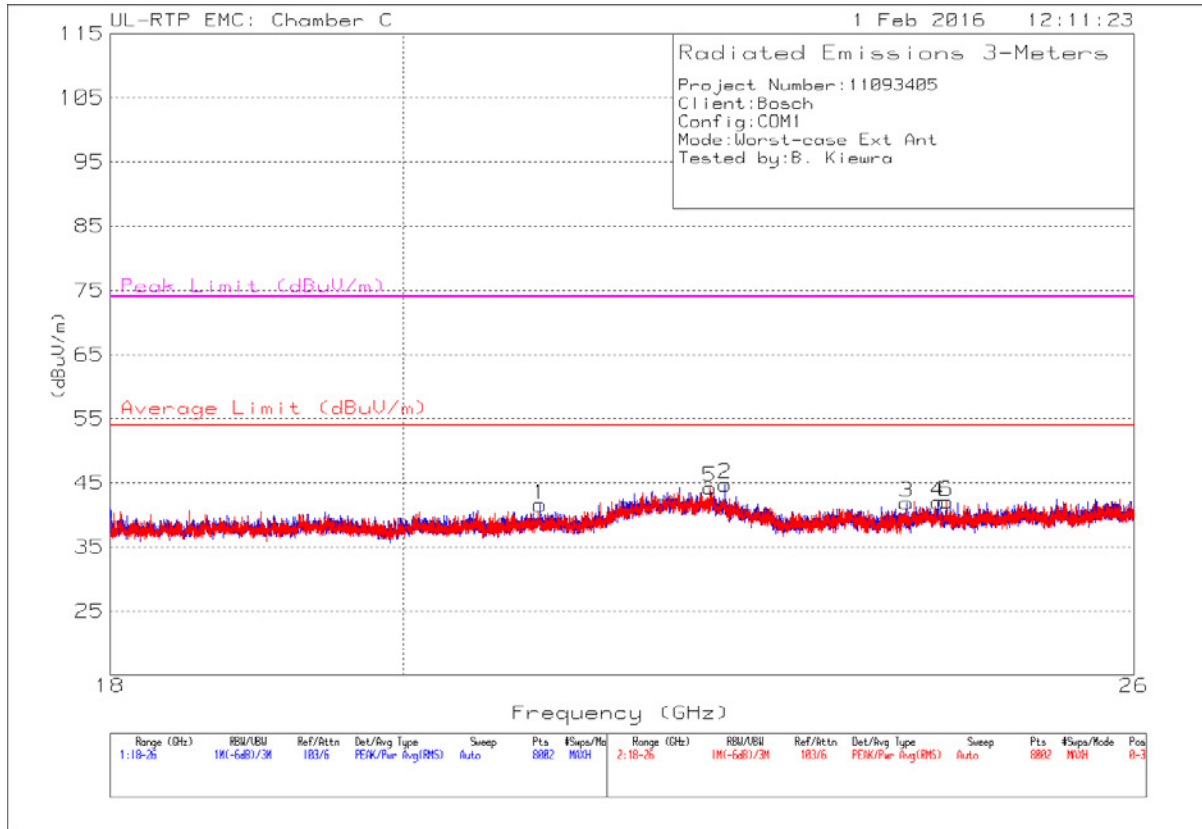
Pk - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

**External Antenna**

Note – This test was performed with the test channel at mid-channel levels to achieve a worst-case maximum power.



**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	DC Corr (dB)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 21.009	48.64	PK2	33.1	-40.6	41.14	0	54	-12.6	74	-32.86	153	159	H
2	* 22.45	48.04	PK2	35.2	-40.5	42.74	0	54	-11.26	74	-31.26	328	301	H
3	* 23.961	49.34	PK2	33.5	-39.7	43.14	0	54	-10.86	74	-30.86	17	205	H
5	* 22.327	48.71	PK2	36.1	-40.5	44.31	0	54	-9.69	74	-29.69	50	361	V
4	24.235	47.8	Pk	33.5	-39.3	42	0	-	-	-	-	0-360	150	H
6	24.304	47.59	Pk	33.5	-39	42.09	0	-	-	-	-	0-360	125	V

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

Pk - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

## 10. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

FCC §15.207 (a)

RSS-GEN 8.8

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 C63.10.

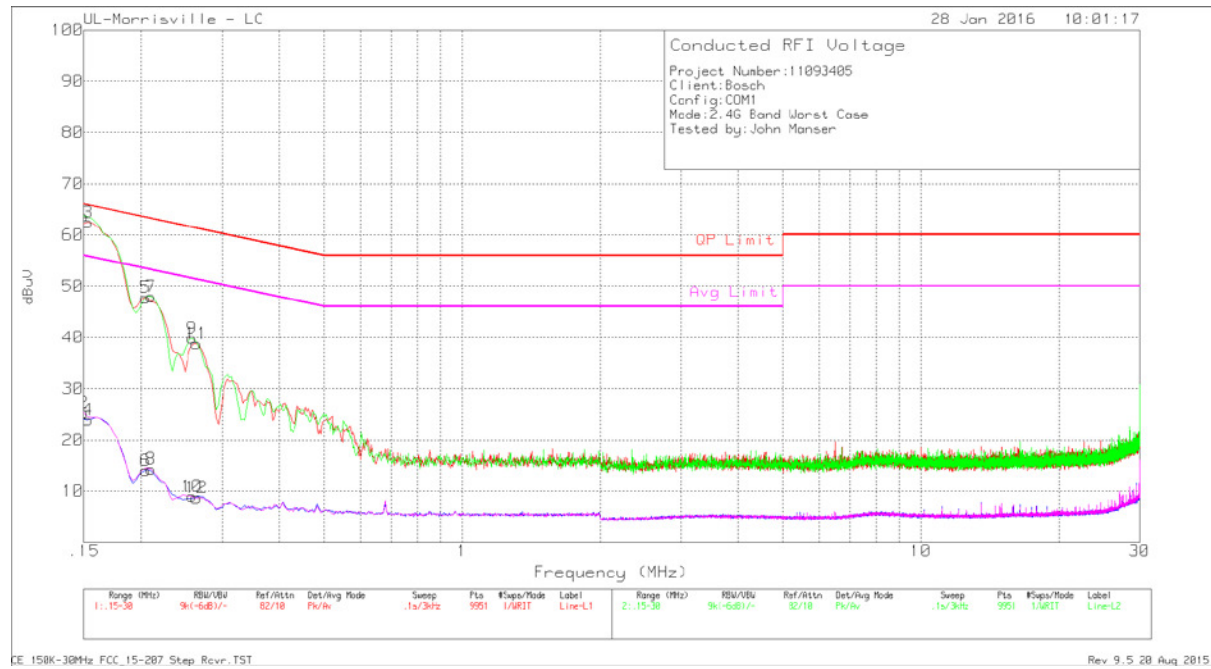
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

**RESULTS**

Note – This test was performed with the test channel at mid-channel levels to achieve a worst-case maximum power.

**LINE 1 and 2 RESULTS**



**6 WORST EMISSIONS**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit	Margin (dB)	Avg Limit	Margin (dB)
1	.15008	46.11	Qp	.4	10	56.51	66	-9.49	-	-
2	.15	14.9	Av	.4	10	25.3	-	-	56	-30.7
3	.15007	45.94	Qp	.2	10	56.14	66	-9.86	-	-
4	.153	13.71	Av	.2	10	23.91	-	-	55.84	-31.93
5	.204	37.67	Pk	.1	10	47.77	63.45	-15.68	-	-
6	.204	3.94	Av	.1	10	14.04	-	-	53.45	-39.41
7	.21	37.78	Pk	.2	10	47.98	63.21	-15.23	-	-
8	.21	4.12	Av	.2	10	14.32	-	-	53.21	-38.89
9	.258	29.63	Pk	.2	10	39.83	61.5	-21.67	-	-
10	.258	-1.22	Av	.2	10	8.98	-	-	51.5	-42.52
11	.264	28.69	Pk	.1	10	38.79	61.3	-22.51	-	-
12	.264	-1.4	Av	.1	10	8.7	-	-	51.3	-42.6

Pk - Peak detector  
 Av - Average detection  
 Qp - Quasi-Peak detector  
 CE 150K-30MHz FCC\_15-207 Step\_Rcvr\_TST  
 Rev 9.5 20 Aug 2015



## END OF REPORT