

9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205, §15.209, §15.247 (d)

IC RSS-GEN Clause 8.9 (Transmitter)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz measurements and 1.5 m above the ground plane for above 1GHz measurements. The antenna to EUT distance is 3 meters.

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

For peak measurements above 1 GHz, the resolution bandwidth is set to 1 MHz and the video bandwidth is set to 3 MHz. For average measurements above 1GHz, the resolution bandwidth and video bandwidth are set as described in ANSI C63.10:2013 for the applicable measurement. For this evaluation, RMS Power Averaging was used and the resolution/video bandwidth settings were 1MHz/3MHz.

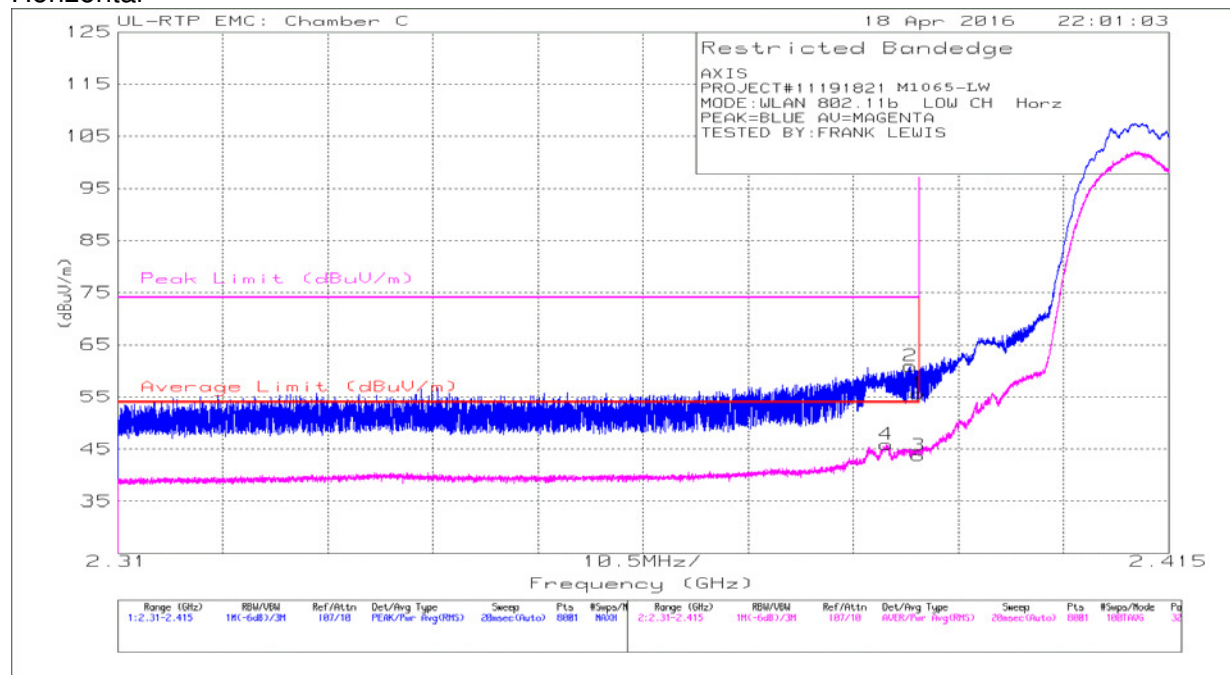
The spectrum from 30MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

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

9.2. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEGE (LOW CHANNEL)

Horizontal



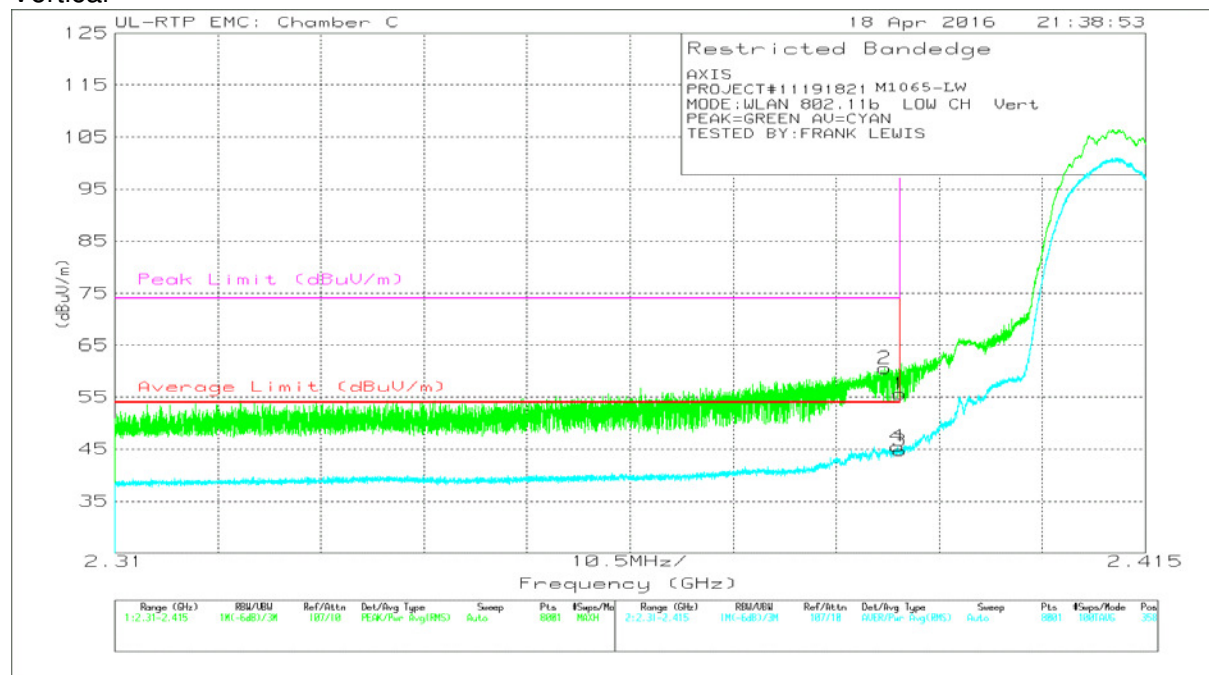
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl /Filtr/Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	50.42	Pk	32	-26.8	0	55.62	-	-	74	-18.38	32	112	H
2	* 2.389	55.74	Pk	32	-26.8	0	60.94	-	-	74	-13.06	32	112	H
3	* 2.39	38.43	RMS	32	-26.8	.14	43.77	54	-10.23	-	-	32	112	H
4	* 2.387	40.54	RMS	32	-26.8	.14	45.88	54	-8.12	-	-	32	112	H

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

Pk - Peak detector

RMS - RMS detection

Vertical



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl/ Fltr/Pad	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	50.47	Pk	32	-26.8	0	55.67	-	-	74	-18.19	358	136	V
2	* 2.388	55.37	Pk	32	-26.8	0	60.57	-	-	74	-13.29	358	136	V
3	* 2.39	39.42	RMS	32	-26.8	.14	44.76	54	-9.24	-	-	358	136	V
4	* 2.39	40.2	RMS	32	-26.8	.14	45.54	54	-8.46	-	-	358	136	V

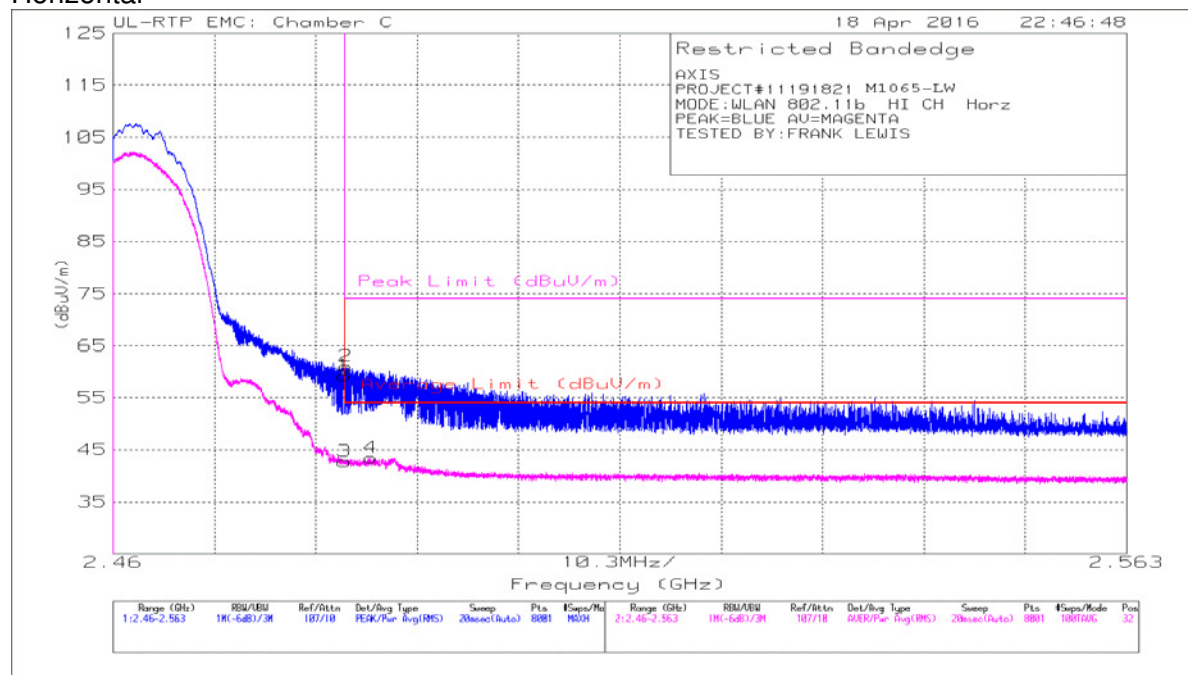
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

Horizontal



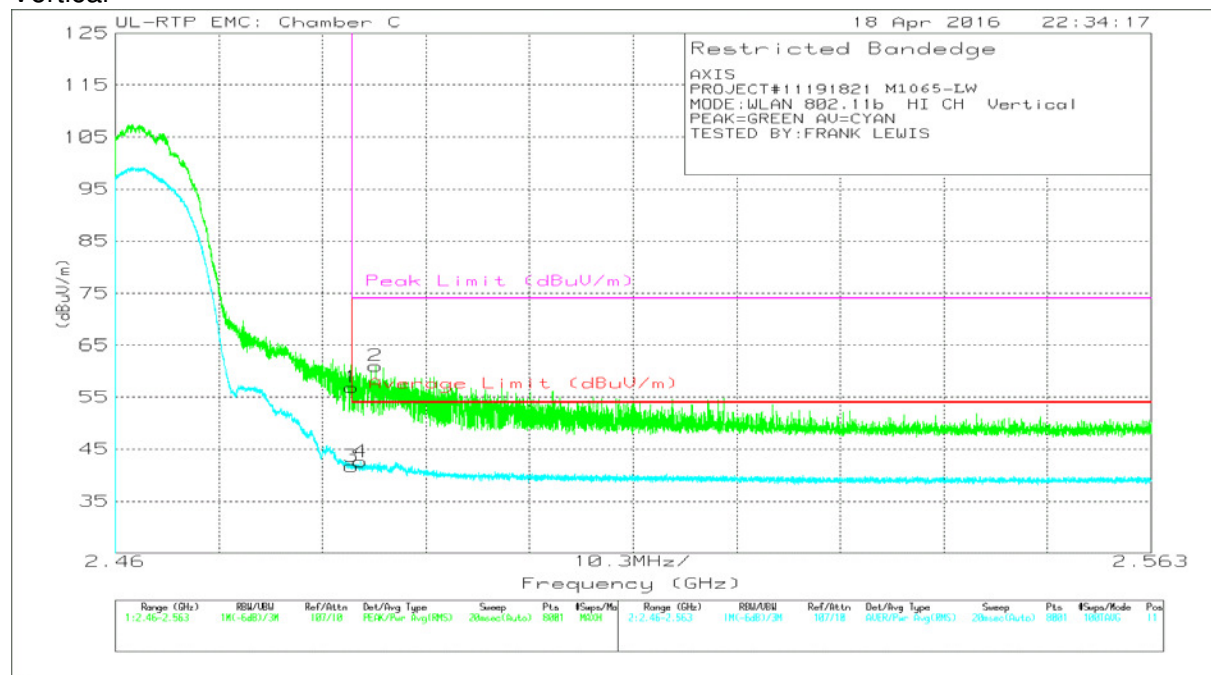
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1	* 2.484	53.24	Pk	32.6	-26.6	0	59.24	-	-	74	-14.76	32	129	H
2	* 2.484	55	Pk	32.6	-26.6	0	61	-	-	74	-13	32	129	H
3	* 2.484	36.63	RMS	32.6	-26.6	.14	42.77	54	-11.23	-	-	32	129	H
4	* 2.486	37.34	RMS	32.6	-26.6	.14	43.48	54	-10.52	-	-	32	129	H

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

Pk - Peak detector

RMS - RMS detection

Vertical



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl/ Filt/Pad	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	50.9	Pk	32.6	-26.6	0	56.9	-	-	74	-17.1	11	160	V
2	* 2.486	55	Pk	32.6	-26.6	0	61	-	-	74	-13	11	160	V
3	* 2.484	35.56	RMS	32.6	-26.6	.14	41.7	54	-12.3	-	-	11	160	V
4	* 2.484	36.46	RMS	32.6	-26.6	.14	42.6	54	-11.4	-	-	11	160	V

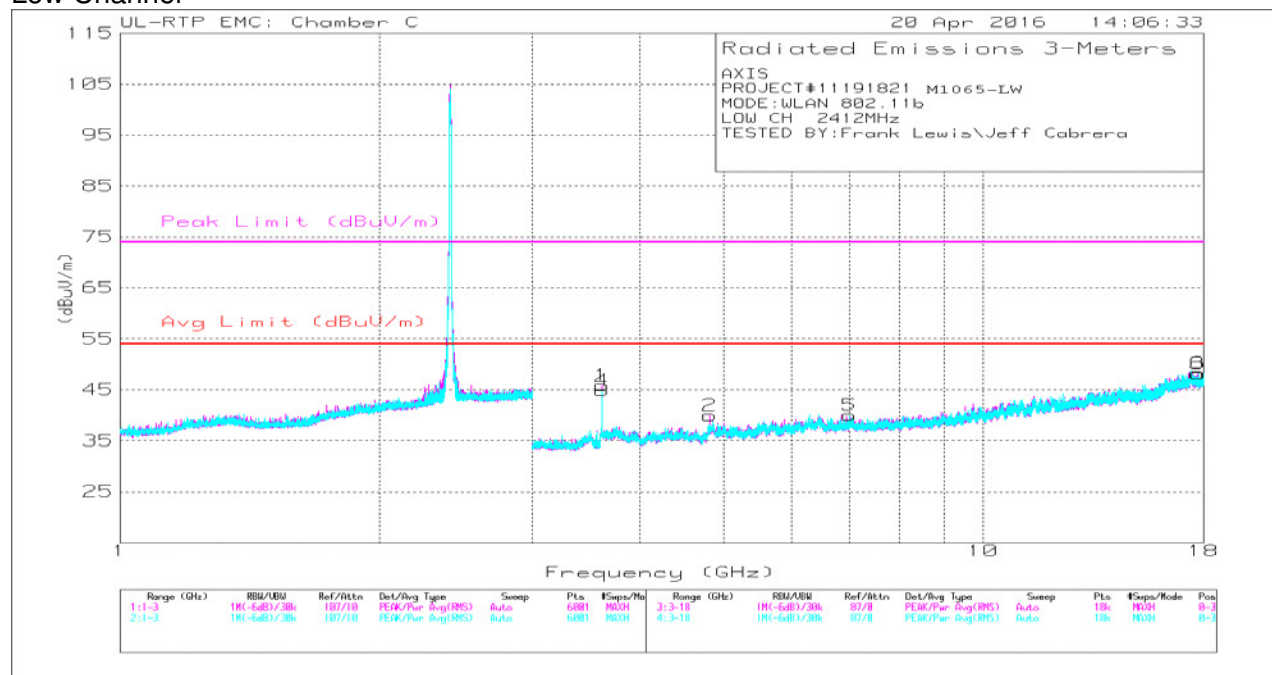
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

Low Channel



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl/ Ftr/Pad	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	* 3.618	49.18	PK2	33.3	-34.3	0	48.18	-	-	74	-25.82	30	101	H
	* 3.618	44.22	MAv1	33.3	-34.3	.14	43.36	54	-10.64	-	-	30	101	H
2	* 4.824	44.93	PK2	34.2	-32.9	0	46.23	-	-	74	-27.77	63	101	H
	* 4.824	35.64	MAv1	34.2	-32.9	.14	37.08	54	-16.92	-	-	63	101	H
3	* 17.724	32.84	PK2	41.4	-21.2	0	53.04	-	-	74	-20.96	91	341	H
	* 17.72	21.59	MAv1	41.4	-21.2	.14	41.93	54	-12.07	-	-	91	341	H
4	* 3.618	48.84	PK2	33.3	-34.3	0	47.84	-	-	74	-26.16	348	113	V
	* 3.618	43.94	MAv1	33.3	-34.3	.14	43.08	54	-10.92	-	-	348	113	V
6	* 17.76	33.08	PK2	41.4	-20.5	0	53.98	-	-	74	-20.02	20	151	V
	* 17.764	21.45	MAv1	41.4	-20.6	.14	42.39	54	-11.61	-	-	20	151	V
5	7.002	33.11	Pk	35.7	-28.8	0	40.01	-	-	74	-33.99	0-360	200	V

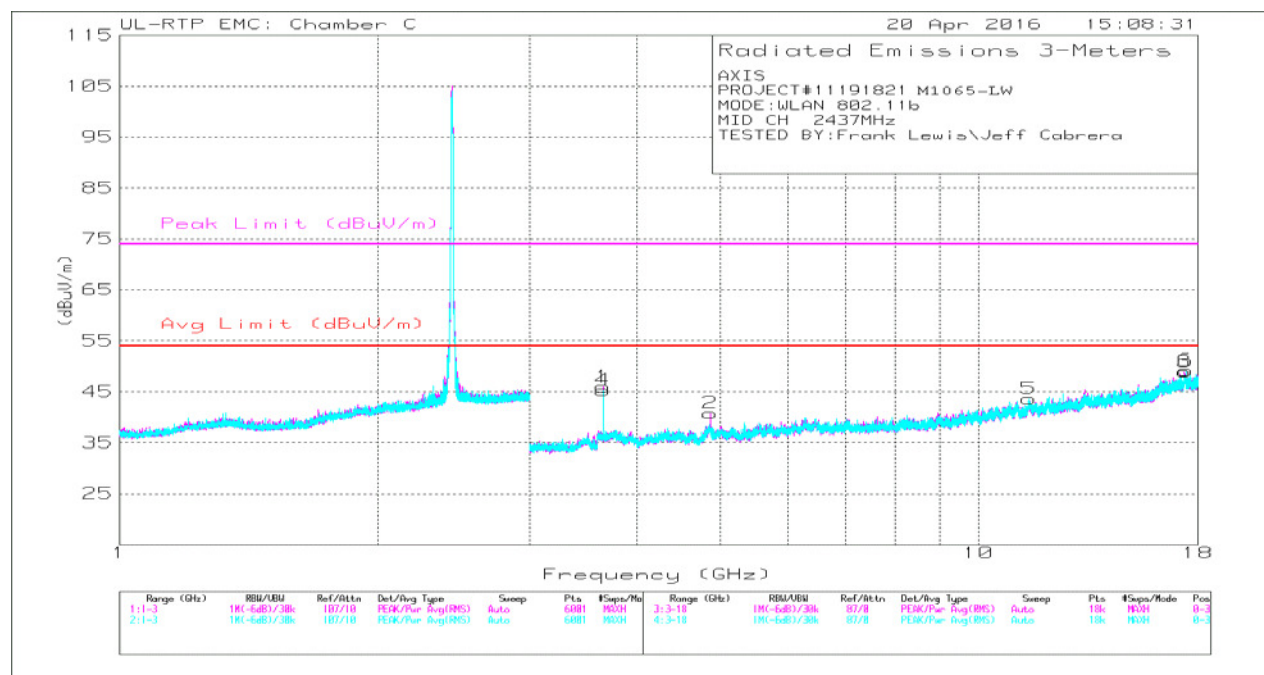
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

PK2 - Maximum Peak

MAv1 - Maximum RMS Average

Mid Channel



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl/ Fltr/Pad	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	* 3.655	49.15	PK2	33.3	-34.6	0	47.85	-	-	74	-26.15	21	106	H
	* 3.655	44.37	MAV1	33.3	-34.6	.14	43.21	54	-10.79	-	-	21	106	H
2	* 4.874	45.08	PK2	34.1	-33.2	0	45.98	-	-	74	-28.02	42	113	H
	* 4.874	36.93	MAV1	34.1	-33.2	.14	37.97	54	-16.03	-	-	42	113	H
4	* 3.655	49.45	PK2	33.3	-34.6	0	48.15	-	-	74	-25.85	341	101	V
	* 3.655	44.87	MAV1	33.3	-34.6	.14	43.71	54	-10.29	-	-	341	101	V
5	* 11.455	35.54	PK2	38.2	-24.3	0	49.44	-	-	74	-24.56	114	171	V
	* 11.452	23.79	MAV1	38.2	-24.2	.14	37.93	54	-16.07	-	-	114	171	V
3	17.361	27.35	Pk	41.6	-20	0	48.95	-	-	74	-25.05	0-360	200	H
6	17.433	28.05	Pk	41.7	-20.6	0	49.15	-	-	74	-24.85	0-360	200	V

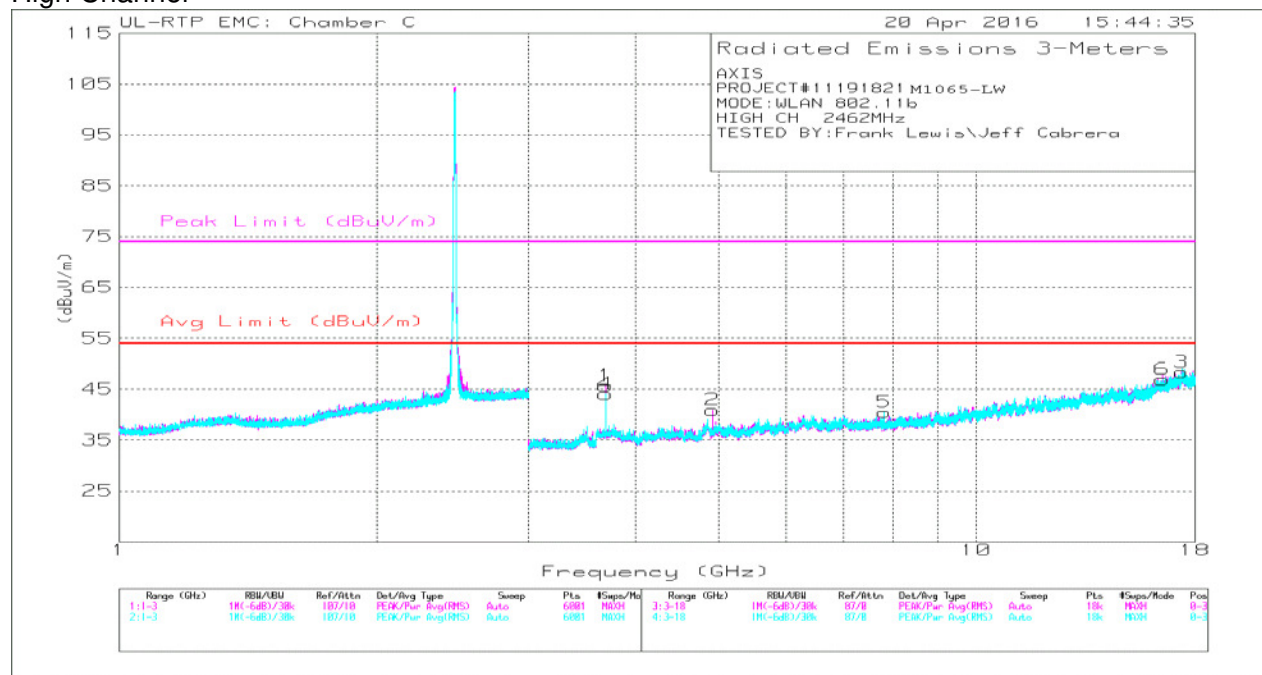
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

PK2 - Maximum Peak

MAV1 - Maximum RMS Average

High Channel



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl/Filtr/Pad	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	* 3.693	48.04	PK2	33.4	-34.8	0	46.64	-	-	74	-27.36	341	149	H
	* 3.693	41.87	MAv1	33.4	-34.8	.14	40.61	54	-13.39	-	-	341	149	H
2	* 4.924	45.01	PK2	34.1	-33.4	0	45.71	-	-	74	-28.29	15	120	H
	* 4.924	37.62	MAv1	34.1	-33.4	.14	38.46	54	-15.54	-	-	15	120	H
4	* 3.693	48.95	PK2	33.4	-34.8	0	47.55	-	-	74	-26.45	343	106	V
	* 3.693	44.41	MAv1	33.4	-34.8	.14	43.15	54	-10.85	-	-	343	106	V
5	7.811	33.26	Pk	35.8	-28.6	0	40.46	-	-	74	-33.54	0-360	200	V
6	16.493	27.92	Pk	41.7	-22.7	0	46.92	-	-	74	-27.08	0-360	101	V
3	17.363	26.65	Pk	41.7	-20	0	48.35	-	-	74	-25.65	0-360	101	H

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

Pk - Peak detector

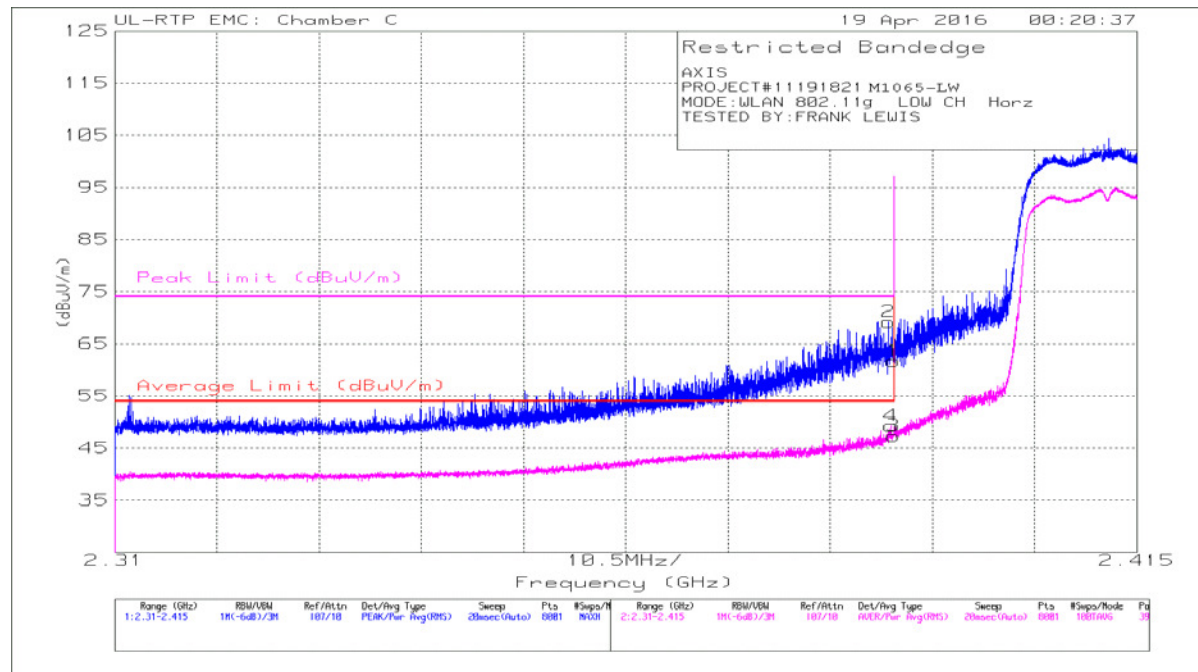
PK2 - Maximum Peak

MAv1 - Maximum RMS Average

9.3. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

Horizontal



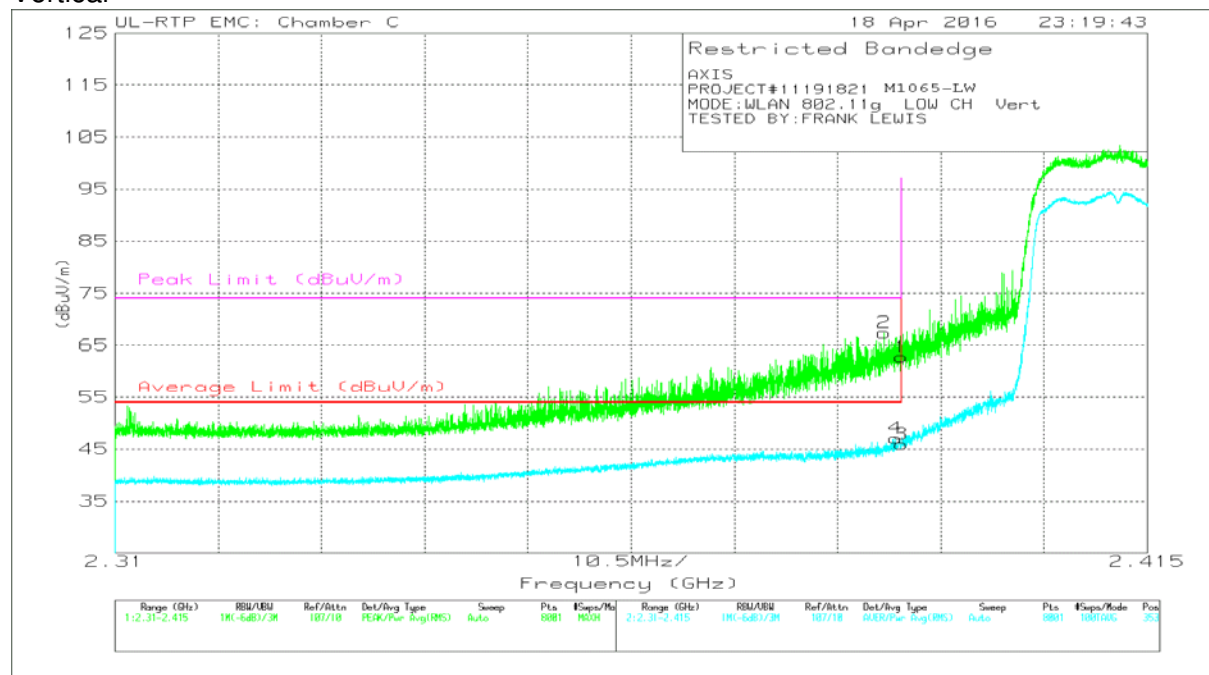
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl/Fitr/Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	56.48	Pk	32	-26.8	0	61.68	-	-	74	-12.32	39	106	H
2	* 2.389	64.02	Pk	32	-26.8	0	69.22	-	-	74	-4.78	39	106	H
3	* 2.39	41.97	RMS	32	-26.8	.14	47.31	54	-6.69	-	-	39	106	H
4	* 2.39	43.91	RMS	32	-26.8	.14	49.25	54	-4.75	-	-	39	106	H

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

Pk - Peak detector

RMS - RMS detection

Vertical



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl/Filtr/Pad	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	57.53	Pk	32	-26.8	0	62.73	-	-	74	-11.27	353	245	V
2	* 2.388	62.21	Pk	32	-26.8	0	67.41	-	-	74	-6.59	353	245	V
3	* 2.39	40.61	RMS	32	-26.8	.14	45.95	54	-8.05	-	-	353	245	V
4	* 2.389	41.75	RMS	32	-26.8	.14	47.09	54	-6.91	-	-	353	245	V

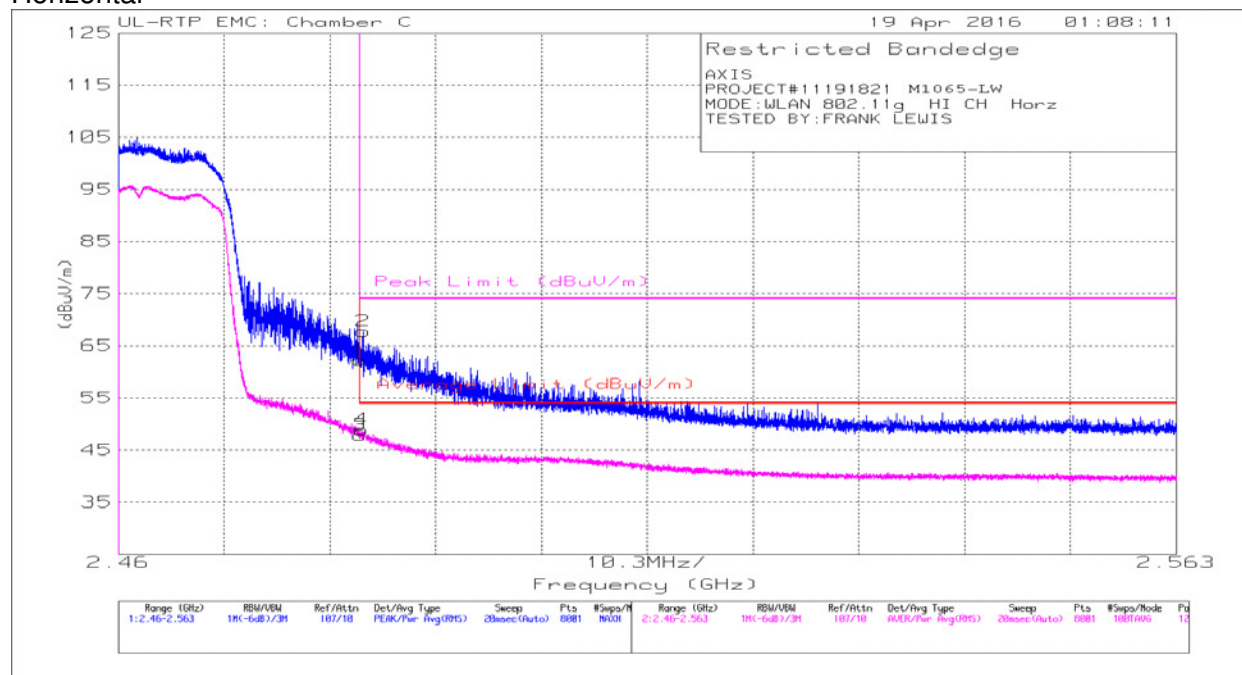
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

Horizontal



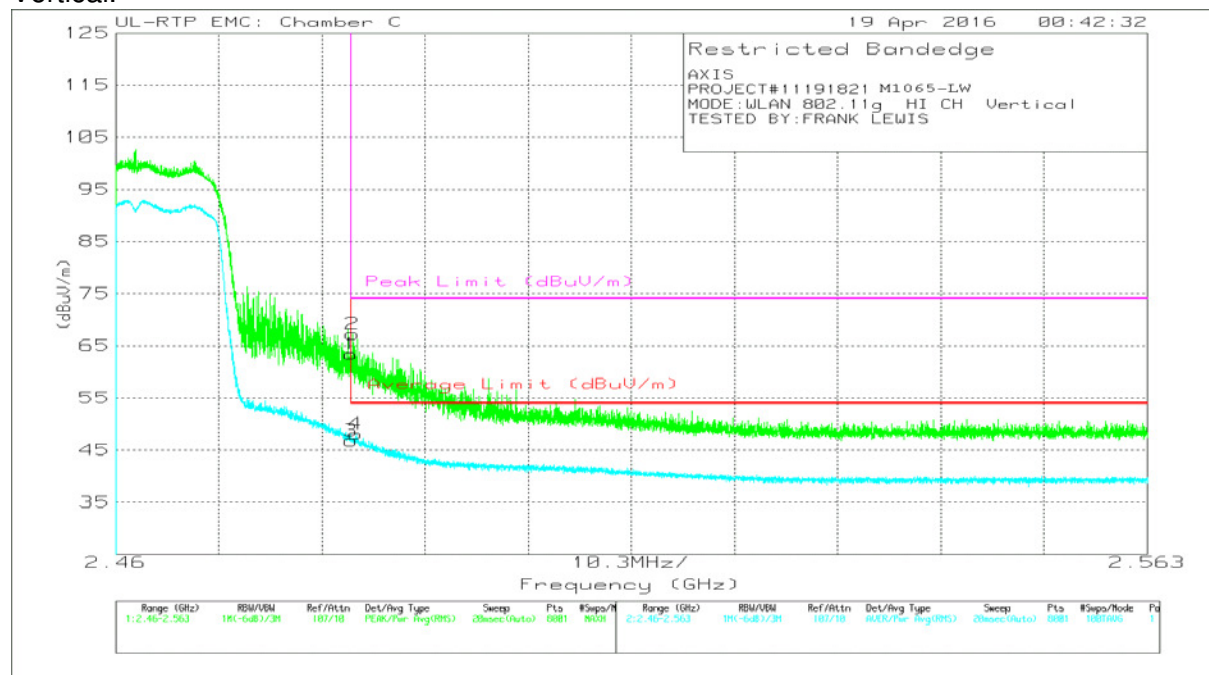
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl/Filtr/Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarit y
1	* 2.484	56.27	Pk	32.6	-26.6	0	62.27	-	-	74	-11.73	12	102	H
2	* 2.484	61.77	Pk	32.6	-26.6	0	67.77	-	-	74	-6.23	12	102	H
3	* 2.484	41.71	RMS	32.6	-26.6	.14	47.85	54	-6.15	-	-	12	102	H
4	* 2.484	42.74	RMS	32.6	-26.6	.14	48.88	54	-5.12	-	-	12	102	H

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

Pk - Peak detector

RMS - RMS detection

Vertical.



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl/Fitr/Pad	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	57.42	Pk	32.6	-26.6	0	63.42	-	-	74	-10.58	1	150	V
2	* 2.484	61.25	Pk	32.6	-26.6	0	67.25	-	-	74	-6.75	1	150	V
3	* 2.484	40.63	RMS	32.6	-26.6	.14	46.77	54	-7.23	-	-	1	150	V
4	* 2.484	41.9	RMS	32.6	-26.6	.14	48.04	54	-5.96	-	-	1	150	V

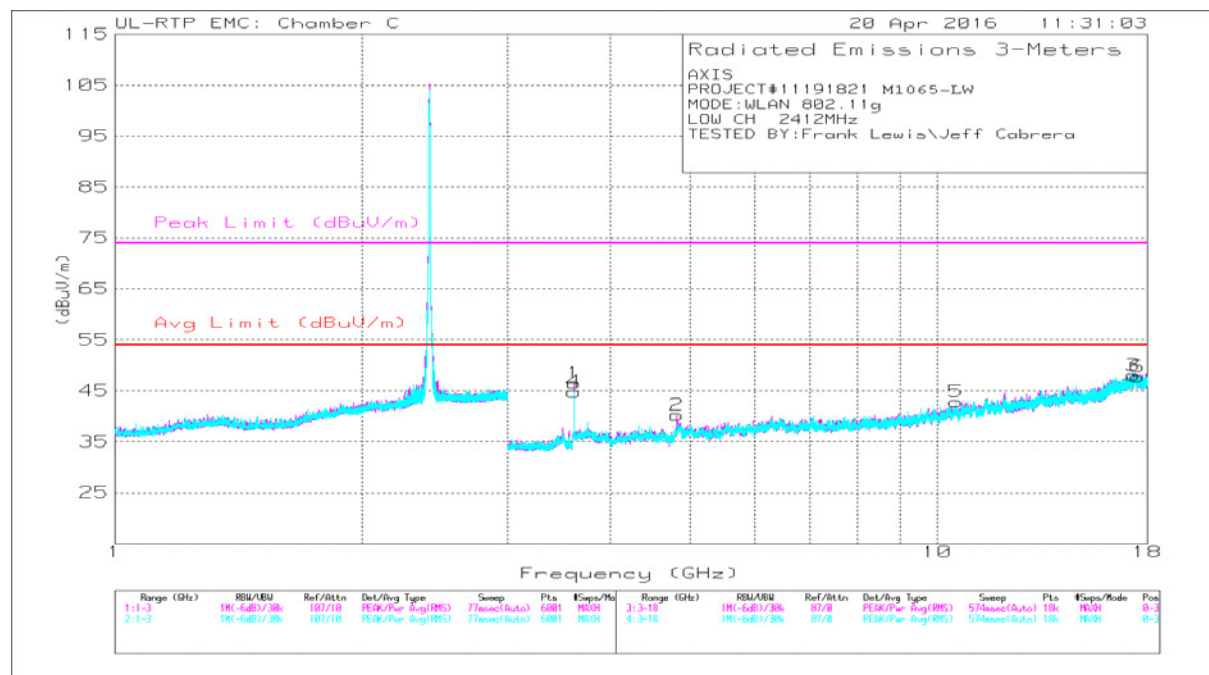
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

Low Channel



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl/Filtr/Pad	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	* 3.618	49.05	PK2	33.3	-34.3	0	48.05	-	-	74	-25.95	13	101	H
	* 3.618	44.47	MAv1	33.3	-34.3	.14	43.61	54	-10.39	-	-	13	101	H
2	* 4.824	44.64	PK2	34.2	-32.9	0	45.94	-	-	74	-28.06	323	172	H
	* 4.824	34.94	MAv1	34.2	-32.9	.14	36.38	54	-17.62	-	-	323	172	H
3	17.308	27.95	Pk	41.7	-21.6	0	48.05	-	-	74	-25.95	0-360	200	H
4	* 3.618	48.97	PK2	33.3	-34.3	0	47.97	-	-	74	-26.03	356	111	V
	* 3.618	43.88	MAv1	33.3	-34.3	.14	43.02	54	-10.98	-	-	356	111	V
5	10.536	30.13	Pk	37.5	-24.8	0	42.83	-	-	74	-31.17	0-360	101	V
6	17.521	26.85	Pk	41.6	-20.7	0	47.75	-	-	74	-26.25	0-360	200	V

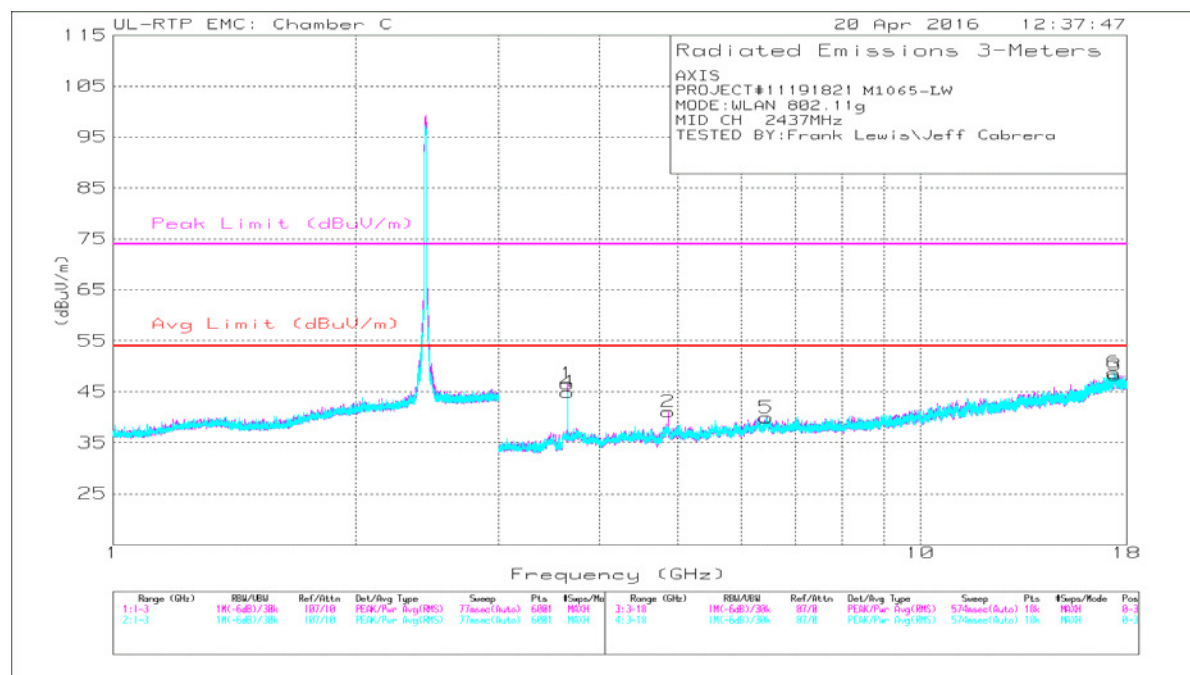
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

PK2 - Maximum Peak

MAv1 - Maximum RMS Average

Mid Channel



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl/ Fitr/Pad	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	* 3.656	48.87	PK2	33.3	-34.6	0	47.57	-	-	74	-26.43	18	105	H
	* 3.656	44.27	MAV1	33.3	-34.6	.14	43.11	54	-10.89	-	-	18	105	H
2	* 4.874	45.21	PK2	34.1	-33.2	0	46.11	-	-	74	-27.89	336	103	H
	* 4.874	37.62	MAV1	34.1	-33.2	.14	38.66	54	-15.34	-	-	336	103	H
3	17.413	26.78	Pk	41.7	-20.2	0	48.28	-	-	74	-25.72	0-360	101	H
4	* 3.655	48.95	PK2	33.3	-34.6	0	47.65	-	-	74	-26.35	340	104	V
	* 3.655	44.37	MAV1	33.3	-34.6	.14	43.21	54	-10.79	-	-	340	104	V
5	6.445	33.15	Pk	35.5	-28.7	0	39.95	-	-	74	-34.05	0-360	101	V
6	17.358	27.29	Pk	41.6	-20.1	0	48.79	-	-	74	-25.21	0-360	200	V

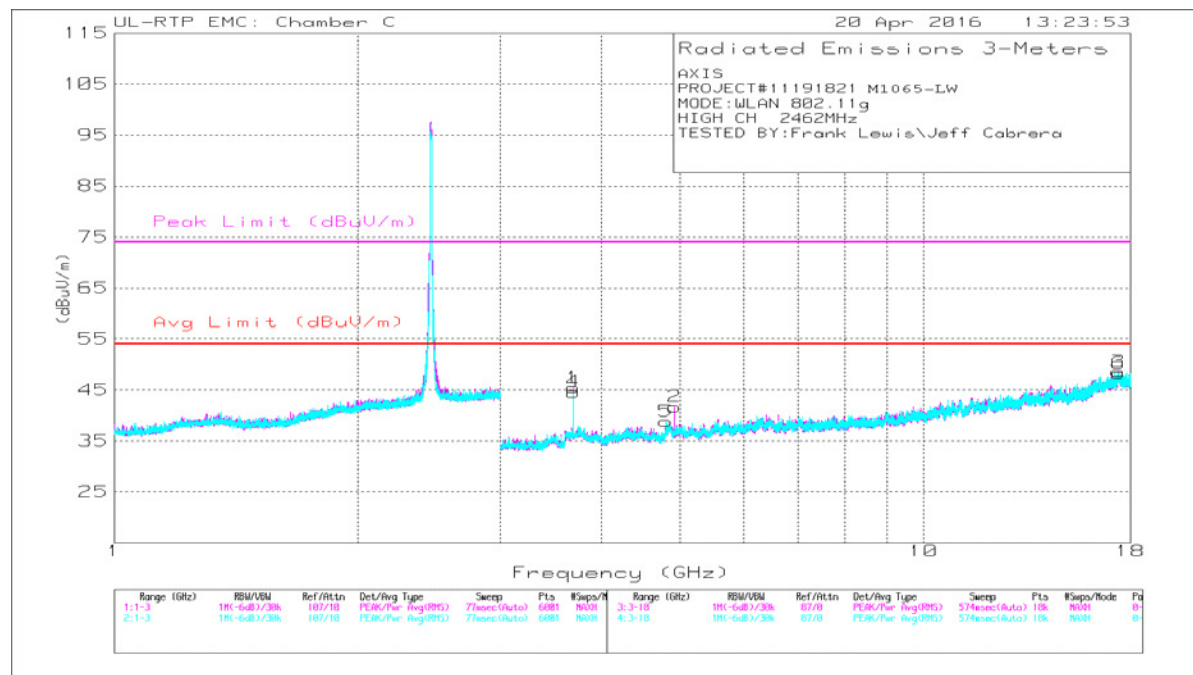
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

PK2 - Maximum Peak

MAV1 - Maximum RMS Average

High Channel



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl/ Fltr/Pad	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	* 3.693	48.76	PK2	33.4	-34.8	0	47.36	-	-	74	-26.64	19	108	H
	* 3.693	43.86	MAv1	33.4	-34.8	.14	42.60	54	-11.40	-	-	19	108	H
2	* 4.924	44.59	PK2	34.1	-33.4	0	45.29	-	-	74	-28.71	14	163	H
	* 4.924	36.32	MAv1	34.1	-33.4	.14	37.16	54	-16.84	-	-	14	163	H
3	17.386	27.12	Pk	41.7	-20.2	0	48.62	-	-	74	-25.38	0-360	101	H
4	* 3.693	48.76	PK2	33.4	-34.8	0	47.36	-	-	74	-26.64	333	105	V
	* 3.693	43.55	MAv1	33.4	-34.8	.14	42.29	54	-11.71	-	-	333	105	V
5	* 4.801	43.67	PK2	34.3	-33.1	0	44.87	-	-	74	-29.13	158	175	V
	* 4.8	31.6	MAv1	34.3	-33.1	.14	32.94	54	-21.06	-	-	158	175	V
6	17.409	26.74	Pk	41.7	-20.2	0	48.24	-	-	74	-25.76	0-360	101	V

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

Pk - Peak detector

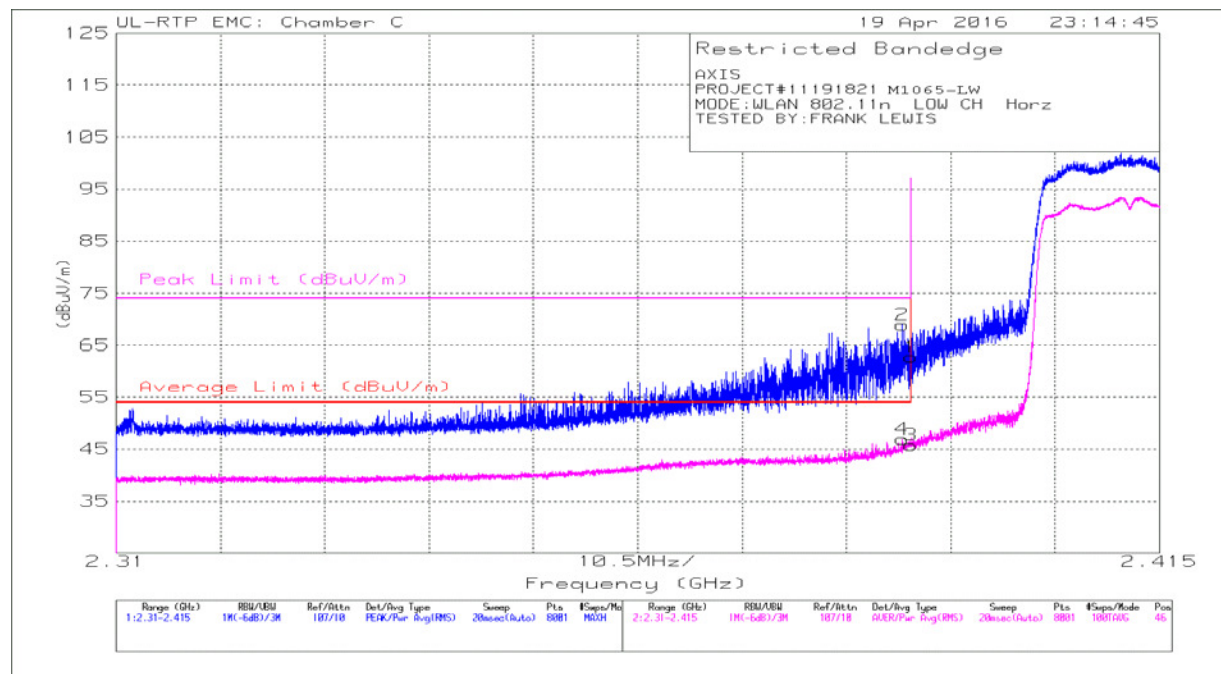
PK2 - Maximum Peak

MAv1 - Maximum RMS Average

9.4. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

Horizontal



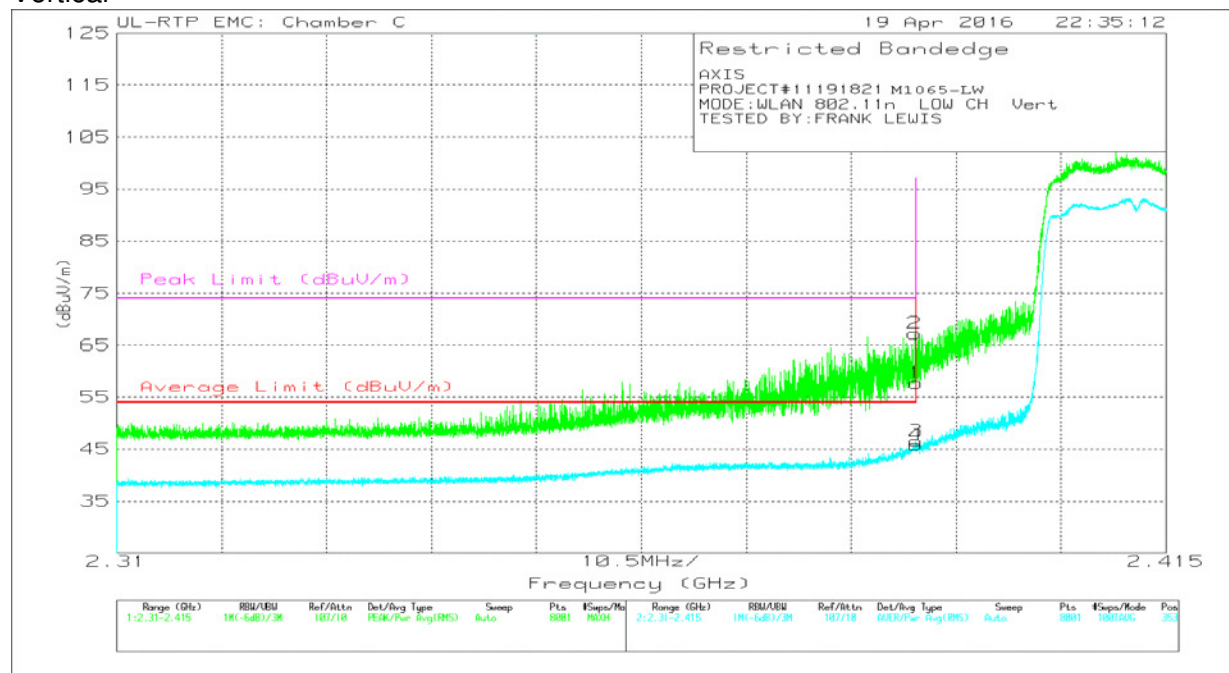
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl/Fltr/Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	57.53	Pk	32	-26.8	0	62.73	-	-	74	-11.27	46	105	H
2	* 2.389	63.7	Pk	32	-26.8	0	68.9	-	-	74	-5.1	46	105	H
3	* 2.39	40.43	RMS	32	-26.8	.19	45.82	54	-8.18	-	-	46	105	H
4	* 2.389	41.56	RMS	32	-26.8	.19	46.95	54	-7.05	-	-	46	105	H

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

Pk - Peak detector

RMS - RMS detection

Vertical



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl/Fltr/Pad	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	52.56	Pk	32	-26.8	0	57.76	-	-	74	-16.24	353	215	V
2	* 2.39	62.06	Pk	32	-26.8	0	67.26	-	-	74	-6.74	353	215	V
3	* 2.39	41.26	RMS	32	-26.8	.19	46.65	54	-7.35	-	-	353	215	V
4	* 2.39	40.48	RMS	32	-26.8	.19	45.87	54	-8.13	-	-	353	215	V

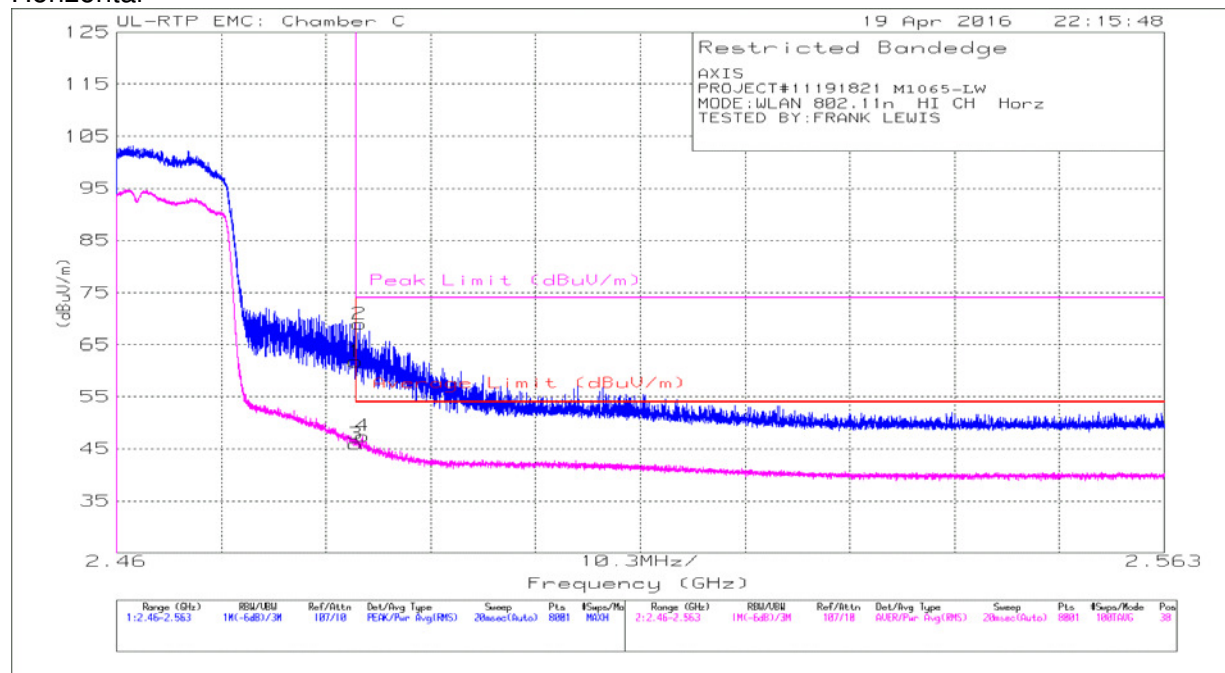
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

Horizontal



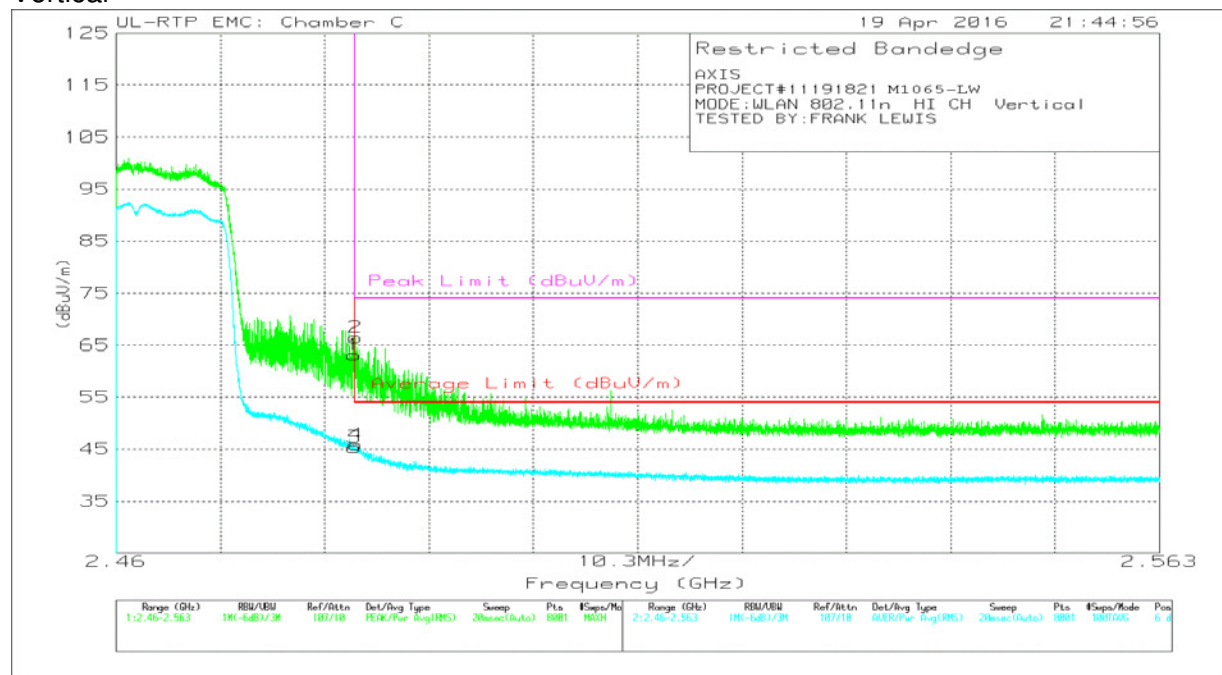
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl/ Fltr/Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	55.74	Pk	32.6	-26.6	0	61.74	-	-	74	-12.26	38	146	H
2	* 2.484	63	Pk	32.6	-26.6	0	69	-	-	74	-5	38	146	H
3	* 2.484	39.8	RMS	32.6	-26.6	.19	45.99	54	-8.01	-	-	38	146	H
4	* 2.484	41.33	RMS	32.6	-26.6	.19	47.52	54	-6.48	-	-	38	146	H

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

Pk - Peak detector

RMS - RMS detection

Vertical



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl/ Ftr/Pad	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	57.12	Pk	32.6	-26.6	0	63.12	-	-	74	-10.88	6	150	V
2	* 2.484	60.46	Pk	32.6	-26.6	0	66.46	-	-	74	-7.54	6	150	V
3	* 2.484	39.18	RMS	32.6	-26.6	.19	45.37	54	-8.63	-	-	6	150	V
4	* 2.484	39.69	RMS	32.6	-26.6	.19	45.88	54	-8.12	-	-	6	150	V

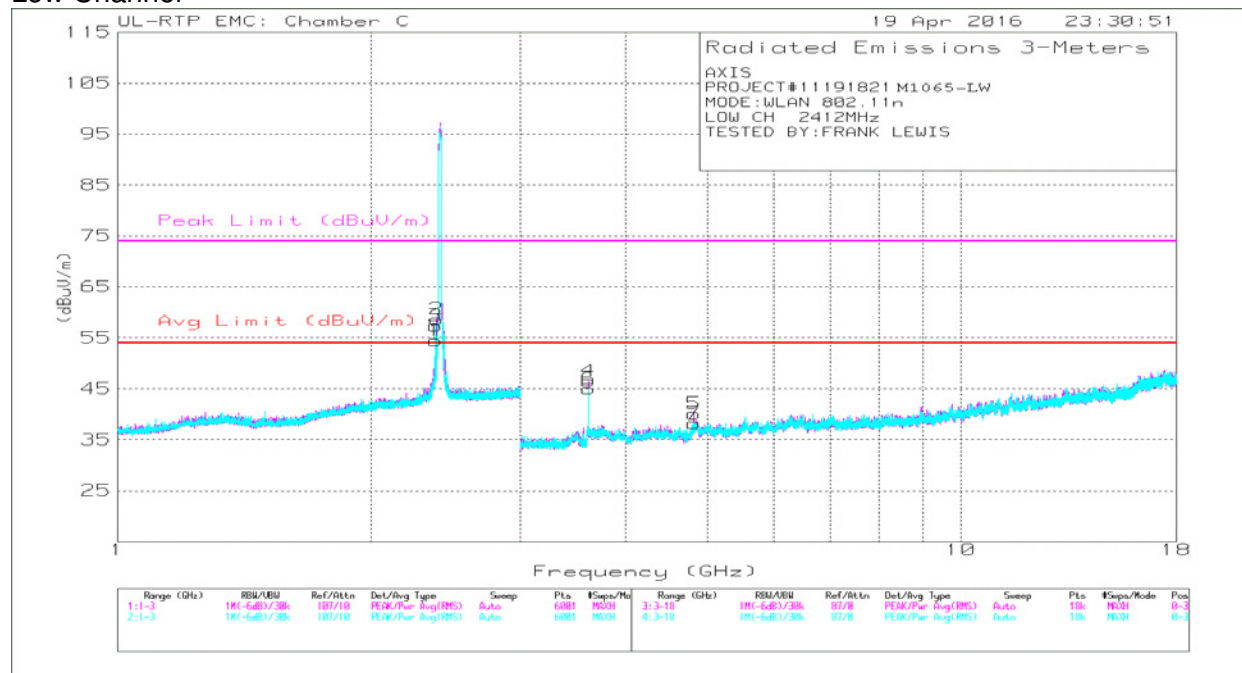
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

Low Channel



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl/Filtr/Pad	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	* 2.386	63.41	PK2	32	-26.8	0	68.61	-	-	74	-5.39	54	104	H
	* 2.385	39.77	MAv1	32	-26.8	.19	45.16	54	-8.84	-	-	54	104	H
2	* 2.389	63.26	PK2	32	-26.8	0	68.46	-	-	74	-5.54	23	153	H
	* 2.39	41.41	MAv1	32	-26.8	.19	46.80	54	-7.20	-	-	23	153	H
3	* 2.382	59.64	PK2	32	-26.8	0	64.84	-	-	74	-9.16	23	190	V
	* 2.384	37.87	MAv1	32	-26.8	.19	43.26	54	-10.74	-	-	23	190	V
4	* 3.618	49.27	PK2	33.3	-34.3	0	48.27	-	-	74	-25.73	19	101	H
	* 3.618	44.99	MAv1	33.3	-34.3	.19	44.18	54	-9.82	-	-	19	101	H
5	* 4.824	44.02	PK2	34.2	-32.9	0	45.32	-	-	74	-28.68	45	123	H
	* 4.824	35.97	MAv1	34.2	-32.9	.19	37.46	54	-16.54	-	-	45	123	H
6	* 3.618	49.62	PK2	33.3	-34.3	0	48.62	-	-	74	-25.38	345	101	V
	* 3.618	44.23	MAv1	33.3	-34.3	.19	43.42	54	-10.58	-	-	345	101	V
7	* 4.824	43.1	PK2	34.2	-32.9	0	44.4	-	-	74	-29.6	323	102	V
	* 4.824	33.17	MAv1	34.2	-32.9	.19	34.66	54	-19.34	-	-	323	102	V

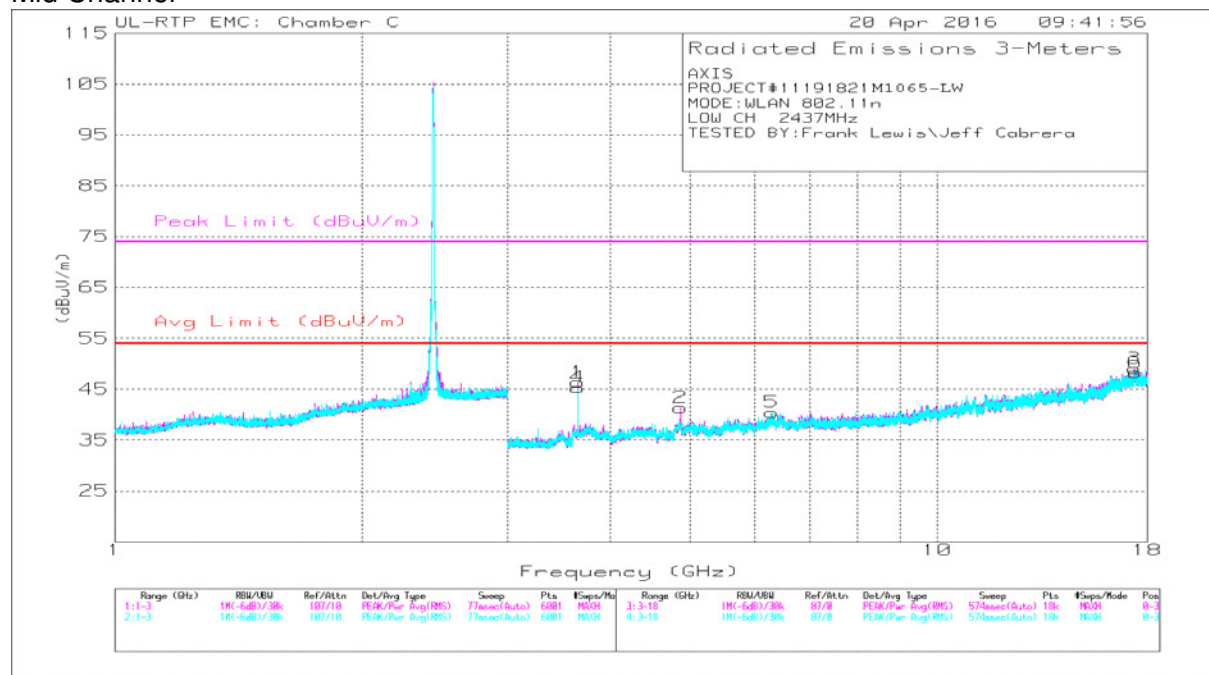
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

PK2 - Maximum Peak

MAv1 - Maximum RMS Average

Mid Channel



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl/Fitr/Pad	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	* 3.655	49.04	PK2	33.3	-34.6	0	47.74	-	-	74	-26.26	5	101	H
	* 3.655	44.22	MAV1	33.3	-34.6	.19	43.10	54	-10.90	-	-	5	101	H
2	* 4.874	46.43	PK2	34.1	-33.2	0	47.33	-	-	74	-26.67	333	102	H
	* 4.874	37.58	MAV1	34.1	-33.2	.19	38.66	54	-15.34	-	-	333	102	H
4	* 3.656	49.15	PK2	33.3	-34.6	0	47.85	-	-	74	-26.15	339	101	V
	* 3.655	44.67	MAV1	33.3	-34.6	.19	43.55	54	-10.45	-	-	339	101	V
3	17.361	27.49	Pk	41.6	-20	0	49.09	-	-	74	-24.91	0-360	101	H
5	6.291	33.84	Pk	35.5	-28.9	0	40.44	-	-	74	-33.56	0-360	200	V
6	17.403	26.71	Pk	41.8	-20.2	0	48.31	-	-	74	-25.69	0-360	101	V

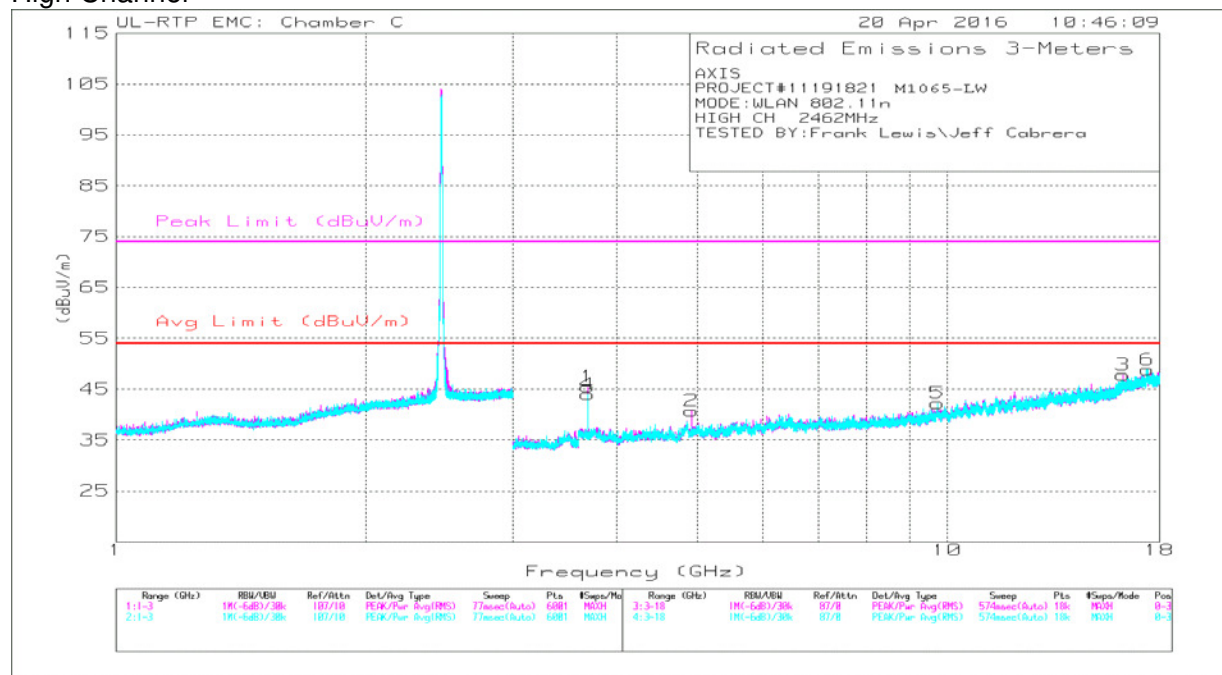
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

PK2 - Maximum Peak

MAV1 - Maximum RMS Average

High Channel



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl/ Fltr/Pad	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	* 3.693	49.24	PK2	33.4	-34.8	0	47.84	-	-	74	-26.16	19	102	H
	* 3.693	44.22	MAv1	33.4	-34.8	.19	43.00	54	-11.00	-	-	19	102	H
2	* 4.924	45.36	PK2	34.1	-33.4	0	46.06	-	-	74	-27.94	335	102	H
	* 4.924	36.86	MAv1	34.1	-33.4	.19	37.74	54	-16.26	-	-	335	102	H
4	* 3.693	49.1	PK2	33.4	-34.8	0	47.7	-	-	74	-26.3	338	104	V
	* 3.693	43.94	MAv1	33.4	-34.8	.19	42.72	54	-11.28	-	-	338	104	V
5	9.726	32.27	Pk	36.9	-26.9	0	42.27	-	-	74	-31.73	0-360	101	V
3	16.262	29.4	Pk	41.2	-22.8	0	47.8	-	-	74	-26.2	0-360	200	H
6	17.412	27.35	Pk	41.7	-20.2	0	48.85	-	-	74	-25.15	0-360	200	V

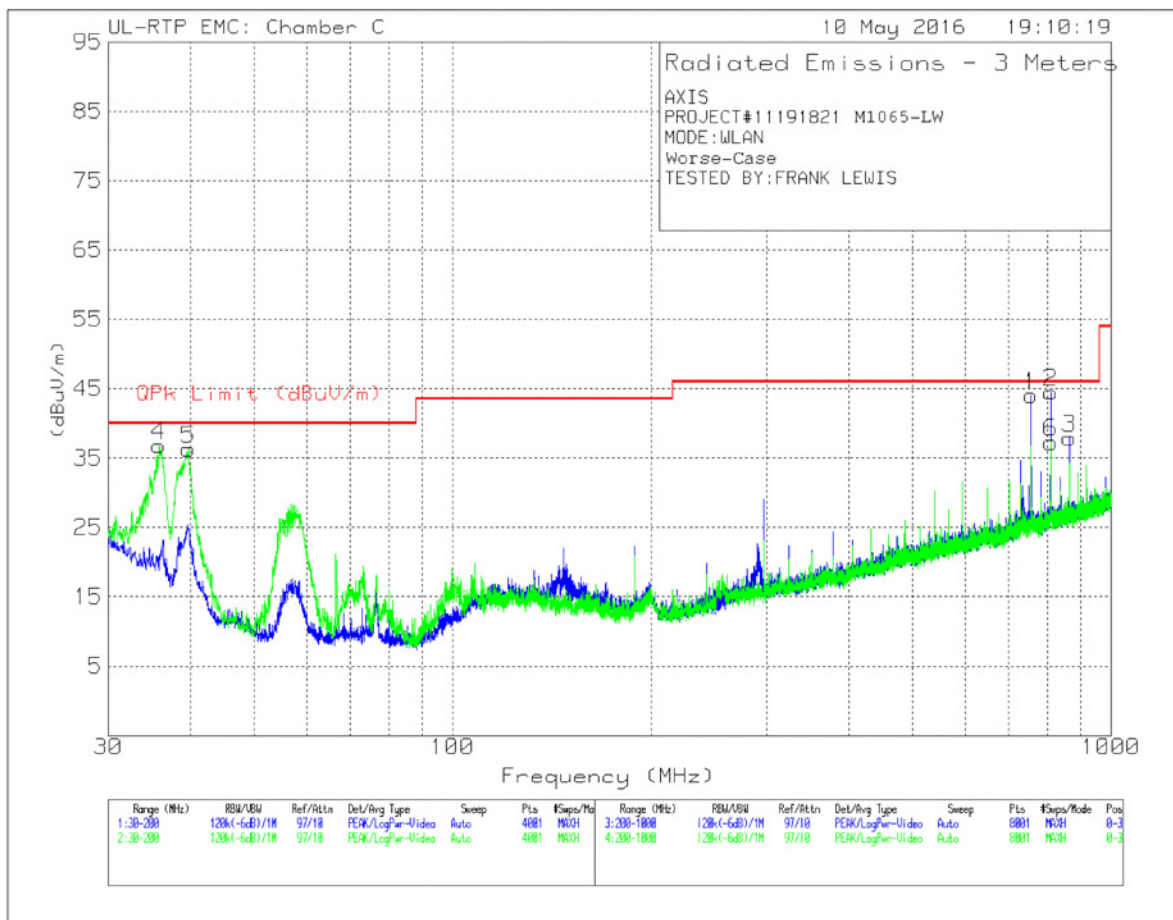
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - Maximum Peak

MAv1 - Maximum RMS Average

9.5. WORST-CASE BELOW 1 GHz

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



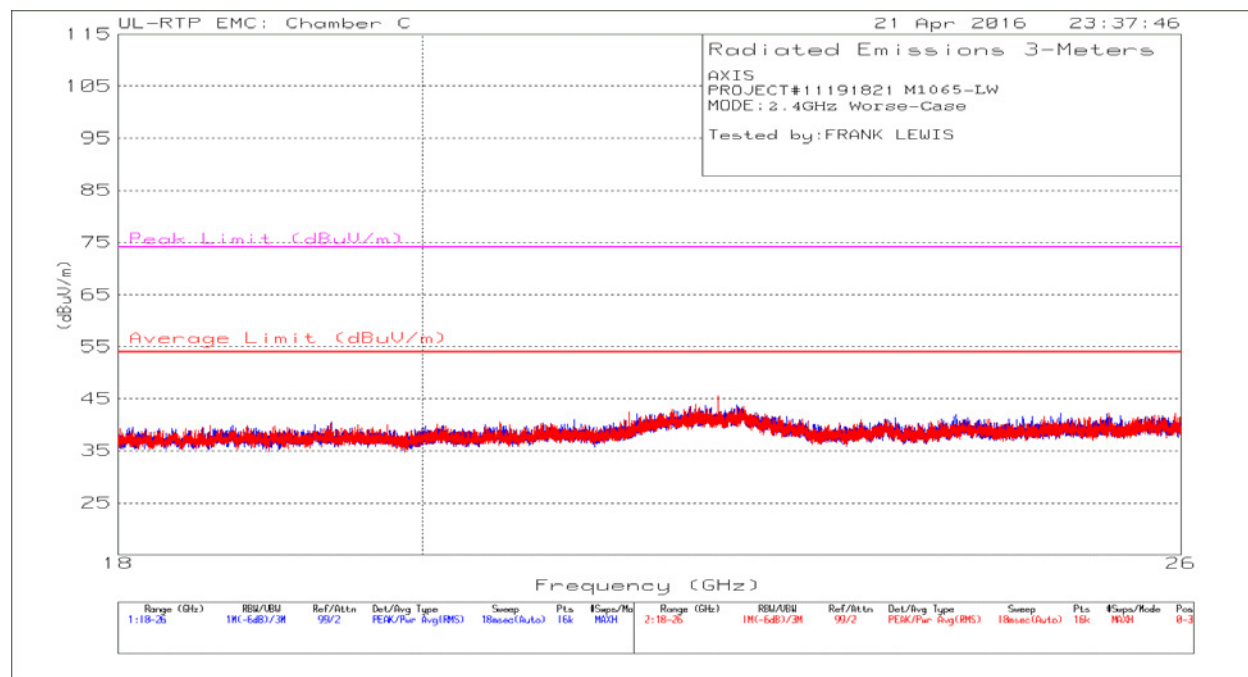
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	756.0108	46.44	Qp	25.8	-28.3	43.94	46.02	-2.08	286	117	H
2	810.0148	46.01	Qp	26.3	-28	44.31	46.02	-1.71	226	101	H
3	864.0184	40.02	Qp	26.5	-27.6	38.92	46.02	-7.1	40	101	H
4	36.0283	43.59	Qp	21.5	-31.5	33.59	40	-6.41	35	102	V
5	39.5275	45.02	Qp	18.8	-31.5	32.32	40	-7.68	23	136	V
6	810.0108	40.51	Qp	26.3	-28	38.81	46.02	-7.21	179	170	V

Pk - Peak detector

Qp - Quasi-Peak detector

9.6. WORST-CASE 18-26GHz

SPURIOUS EMISSIONS 18 to 26GHz (WORST-CASE CONFIGURATION)



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
1	* 21.082	47.78	PK2	33.2	-40.5	0	40.48	54	-13.52	74	-33.52	86	397	H
2	* 22.3	47.26	PK2	36.3	-40.5	0	43.06	54	-10.94	74	-30.94	333	228	H
5	* 22.151	48.49	PK2	36.3	-40.5	0	44.29	54	-9.71	74	-29.71	69	364	V
6	* 23.926	47.48	PK2	33.5	-39.3	0	41.68	54	-12.32	74	-32.32	234	181	V
3	21.477	49.02	Pk	34	-40.5	0	42.52	54	-11.48	74	-31.48	0-360	101	V
4	22.01	47.22	Pk	36.7	-40.6	0	43.32	54	-10.68	74	-30.68	0-360	201	V

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

Pk - Peak detector

PK2 - Maximum Peak

MAV1 - Maximum RMS Average

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 7.2.2

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

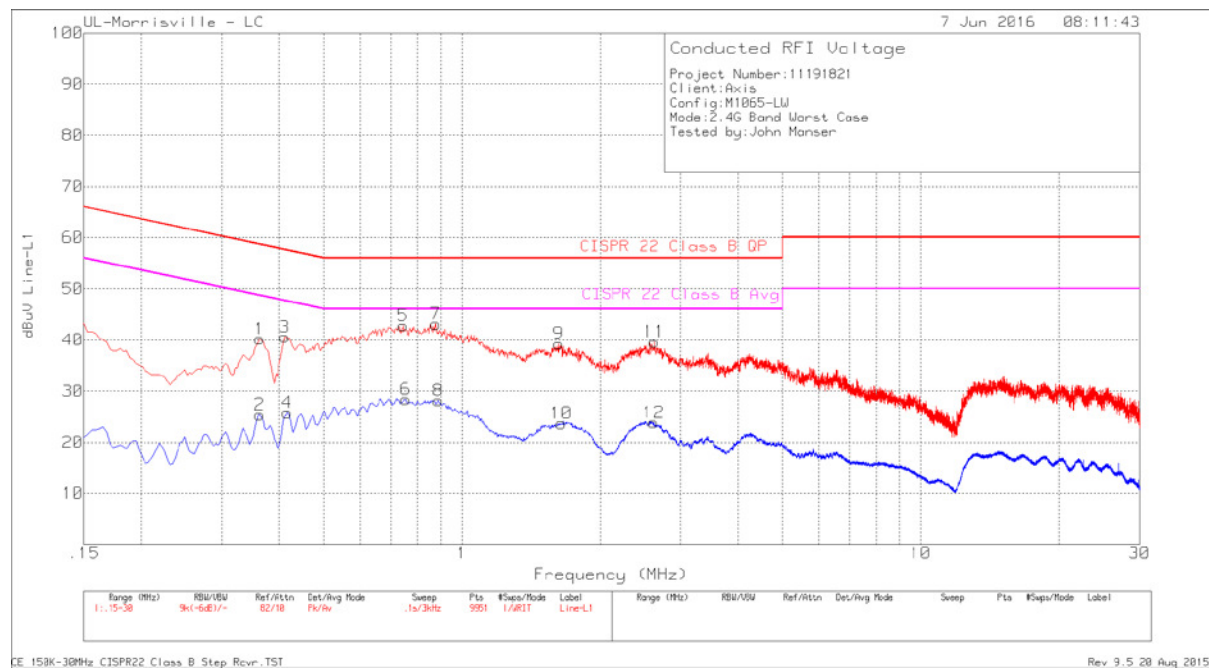
The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

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

LINE 1 RESULTS

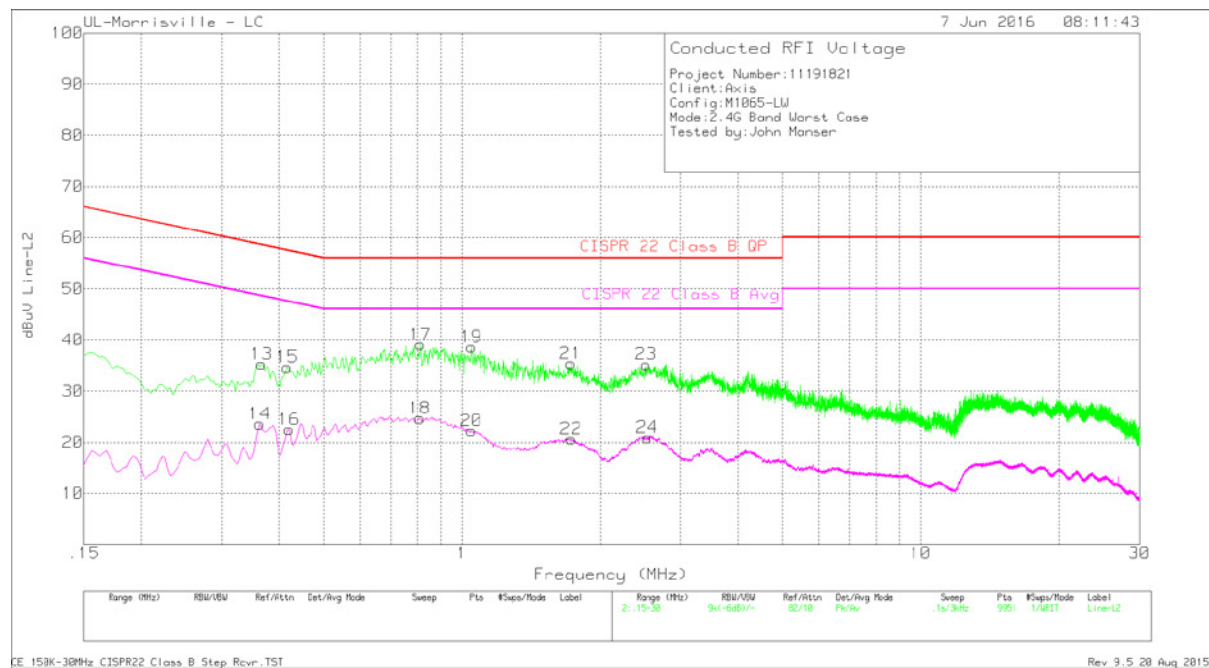


Range 1: Line-L1 15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF [dB]	Cbl/Limiter (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
1	.363	30.43	Pk	.1	9.7	40.23	58.66	-18.43	-	-
2	.363	15.59	Av	.1	9.7	25.39	-	-	48.66	-23.27
3	.411	30.78	Pk	.1	9.7	40.58	57.63	-17.05	-	-
4	.417	15.99	Av	.1	9.7	25.79	-	-	47.51	-21.72
5	.744	32.99	Pk	0	9.8	42.79	56	-13.21	-	-
6	.753	18.64	Av	0	9.8	28.44	-	-	46	-17.56
7	.876	33.32	Pk	0	9.8	43.12	56	-12.88	-	-
8	.888	18.38	Av	0	9.8	28.18	-	-	46	-17.82
9	1.626	29.49	Pk	0	9.8	39.29	56	-16.71	-	-
10	1.647	13.89	Av	0	9.8	23.69	-	-	46	-22.31
11	2.628	29.74	Pk	.1	9.8	39.64	56	-16.36	-	-
12	2.616	13.97	Av	.1	9.8	23.87	-	-	46	-22.13

Pk - Peak detector

Av - Average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF [dB]	Cbl/Limiter (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
13	.366	25.51	Pk	.1	9.7	35.31	58.59	-23.28	-	-
14	.363	13.78	Av	.1	9.7	23.58	-	-	48.66	-25.08
15	.417	24.92	Pk	.1	9.7	34.72	57.51	-22.79	-	-
16	.42	12.68	Av	.1	9.7	22.48	-	-	47.45	-24.97
17	.813	29.27	Pk	0	9.8	39.07	56	-16.93	-	-
18	.81	14.88	Av	0	9.8	24.68	-	-	46	-21.32
19	1.05	28.86	Pk	0	9.8	38.66	56	-17.34	-	-
20	1.05	12.45	Av	0	9.8	22.25	-	-	46	-23.75
21	1.728	25.64	Pk	0	9.8	35.44	56	-20.56	-	-
22	1.731	10.84	Av	0	9.8	20.64	-	-	46	-25.36
23	2.52	25.44	Pk	0	9.8	35.24	56	-20.76	-	-
24	2.535	11.15	Av	0	9.8	20.95	-	-	46	-25.05

Pk - Peak detector

Av - Average detection