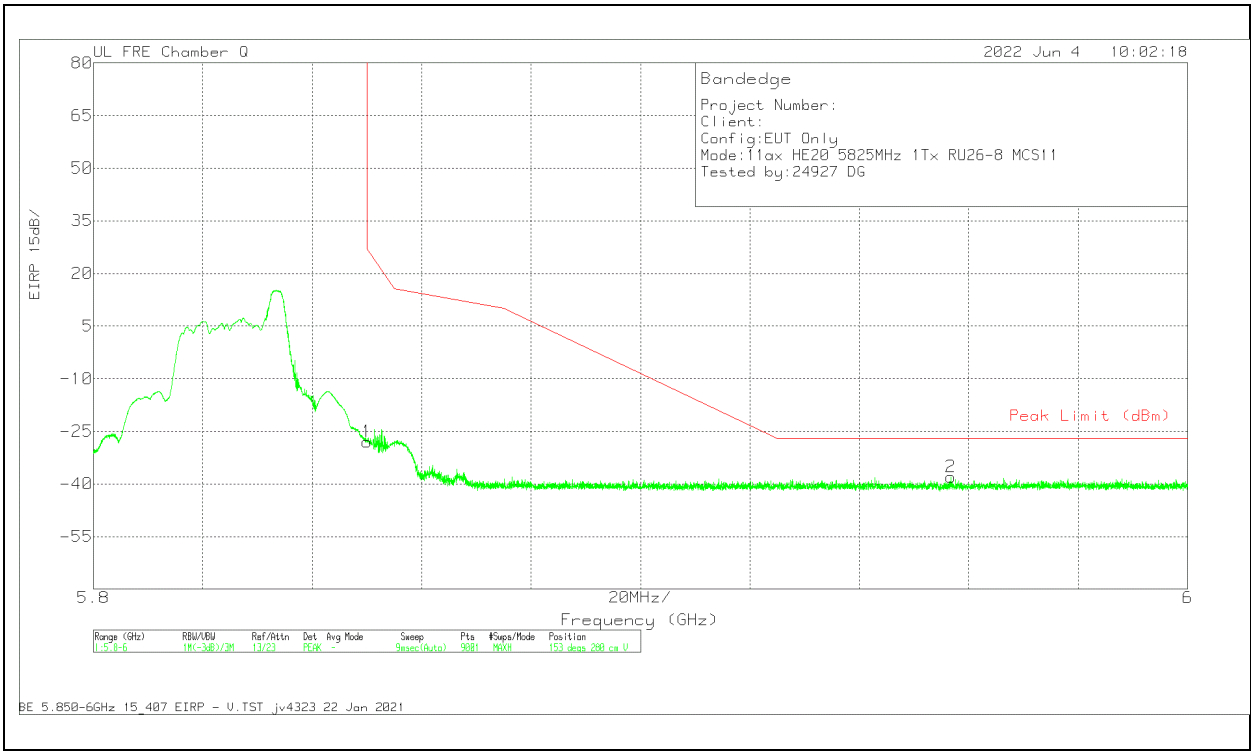
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF 200895 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-45.24	Pk	34.9	-29.5	11.8	0	-28.04	27	-55.04	153	280	V
2	5.95671	-55.76	Pk	35.2	-29.3	11.8	0	-38.06	-27	-11.06	153	280	V

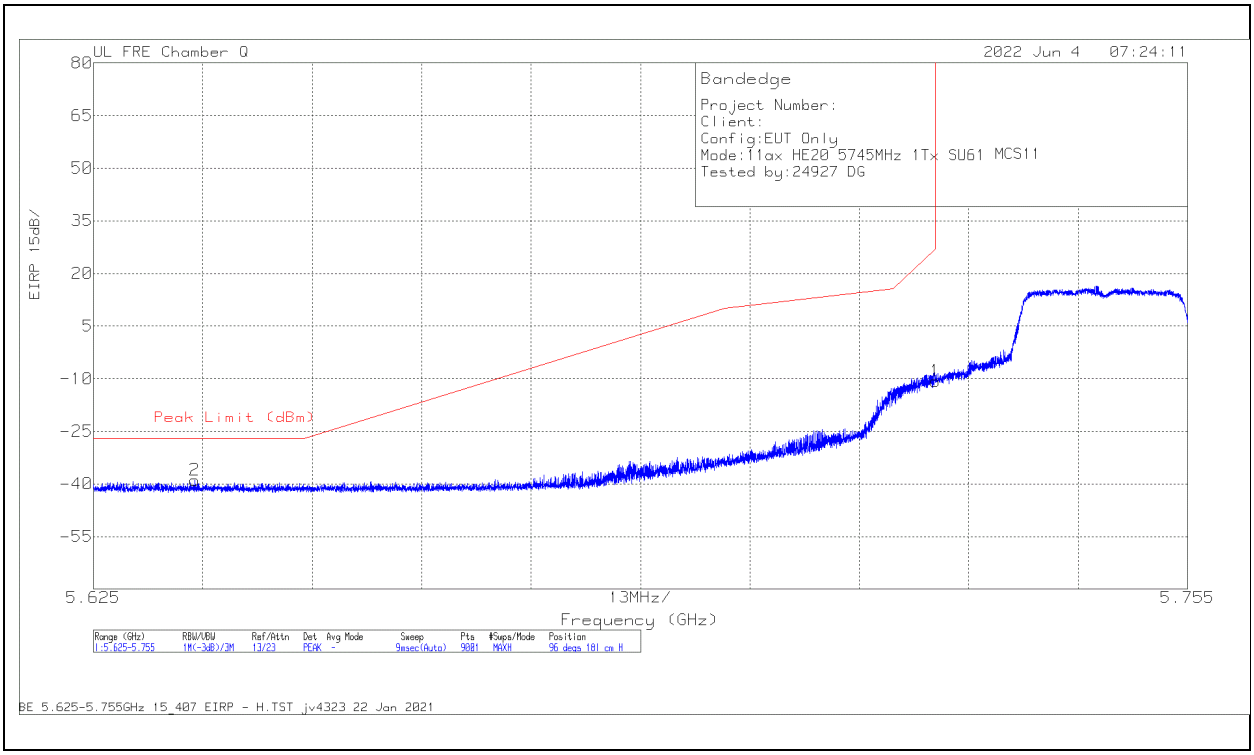
Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

1TX Antenna 5 MODE: SU, Single User

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

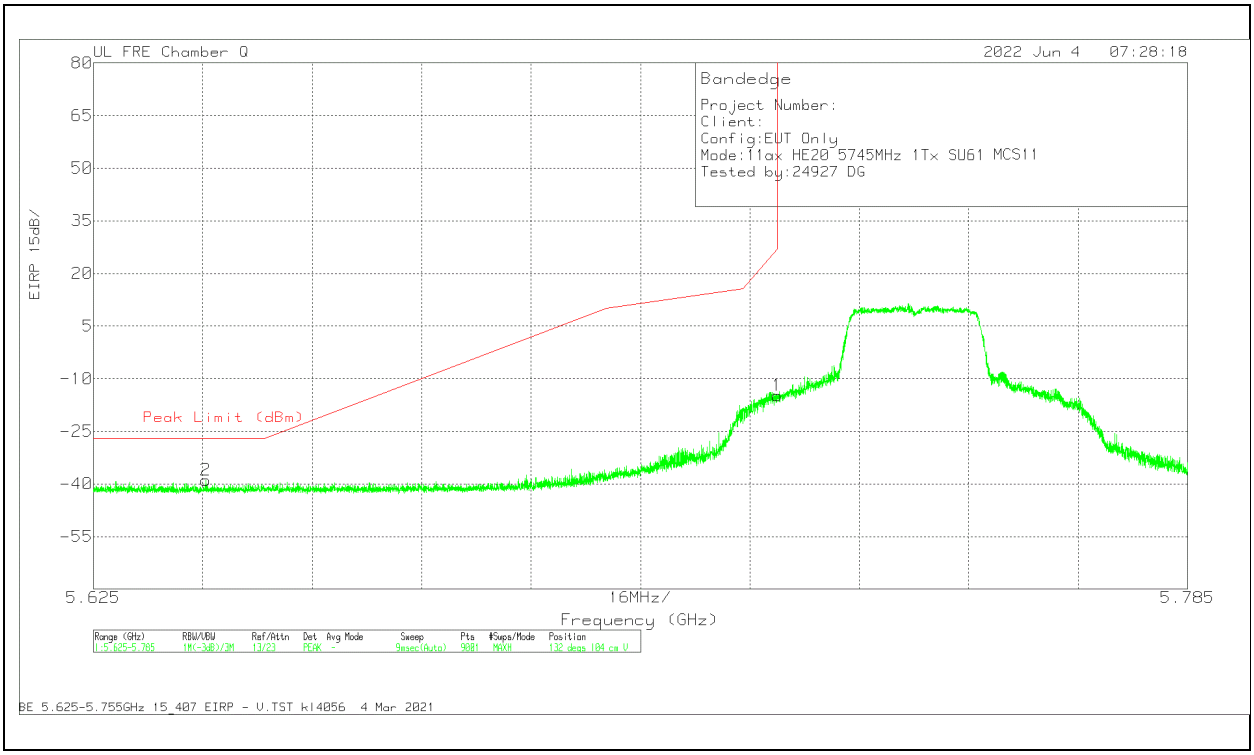


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF 200895 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-27.29	Pk	34.7	-29.9	11.8	0	-10.69	27	-37.69	96	181	H
2	5.637017	-55.18	Pk	34.6	-30.1	11.8	0	-38.88	-27	-11.88	96	181	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF 200895 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-31.38	Pk	34.7	-29.9	11.8	0	-14.78	27	-41.78	132	104	V
2	5.641462	-55.26	Pk	34.6	-30.1	11.8	0	-38.96	-27	-11.96	132	104	V

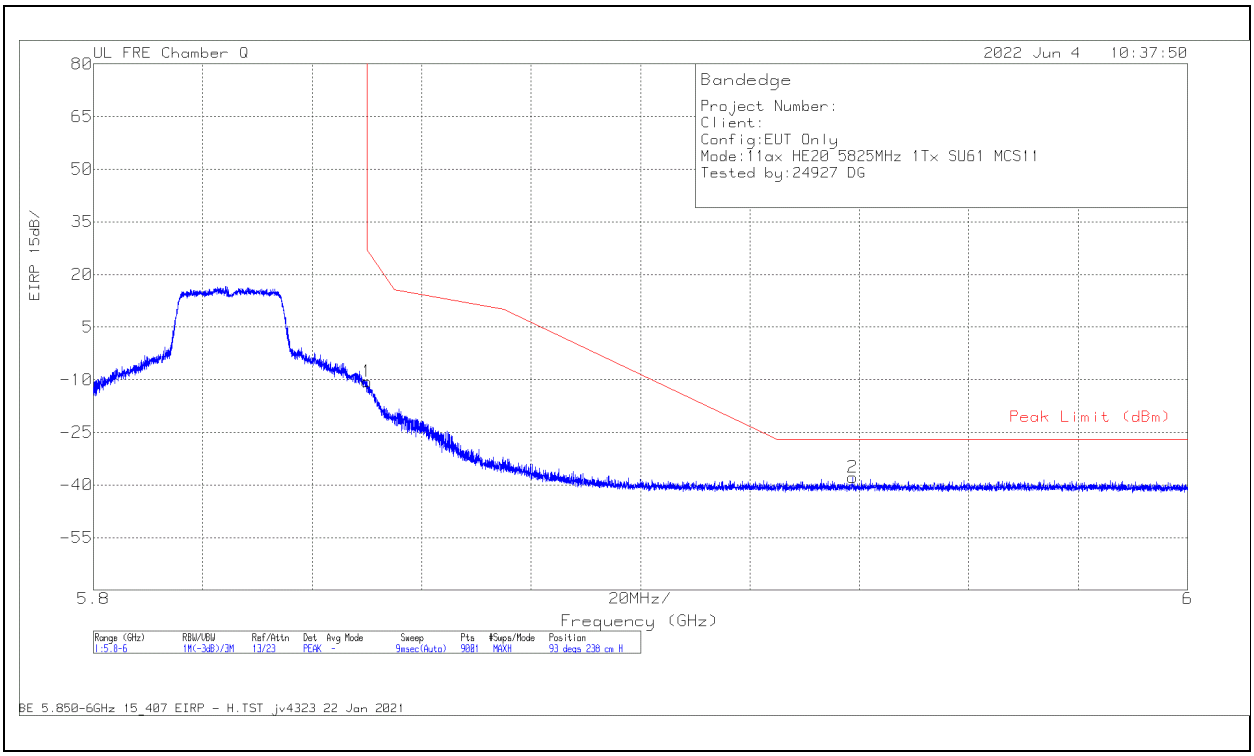
Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL LLC

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

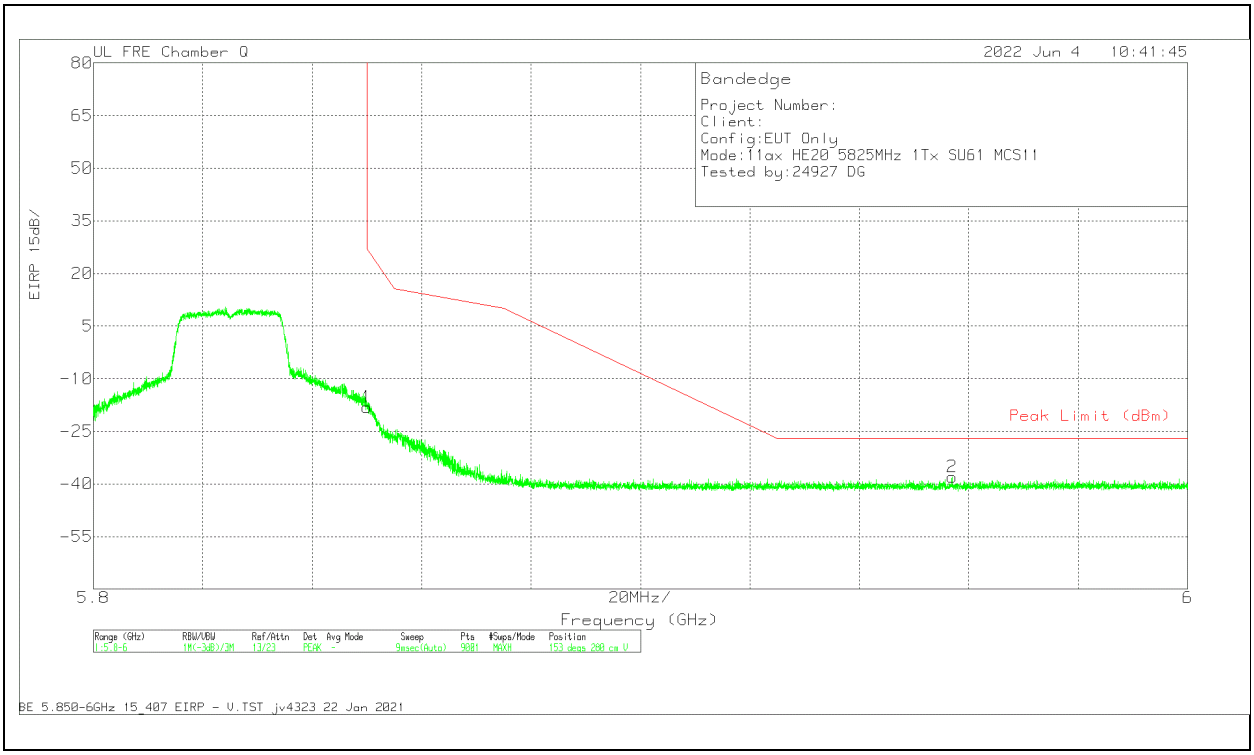


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF 200895 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-27.76	Pk	34.9	-29.5	11.8	0	-10.56	27	-37.56	93	238	H
2	5.938799	-55.45	Pk	35.1	-29.3	11.8	0	-37.85	-27	-10.85	93	238	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF 200895 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-35.37	Pk	34.9	-29.5	11.8	0	-18.17	27	-45.17	153	280	V
2	5.956932	-55.78	Pk	35.2	-29.3	11.8	0	-38.08	-27	-11.08	153	280	V

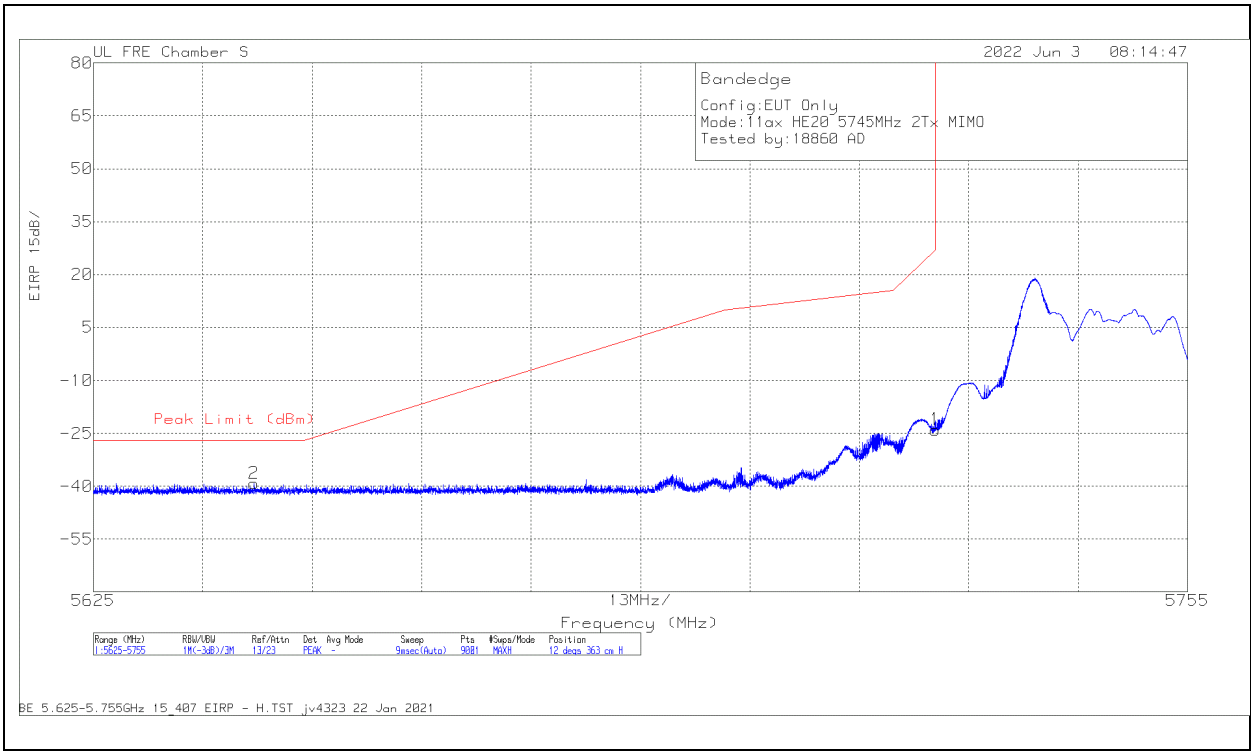
Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tones, RU Index 0

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



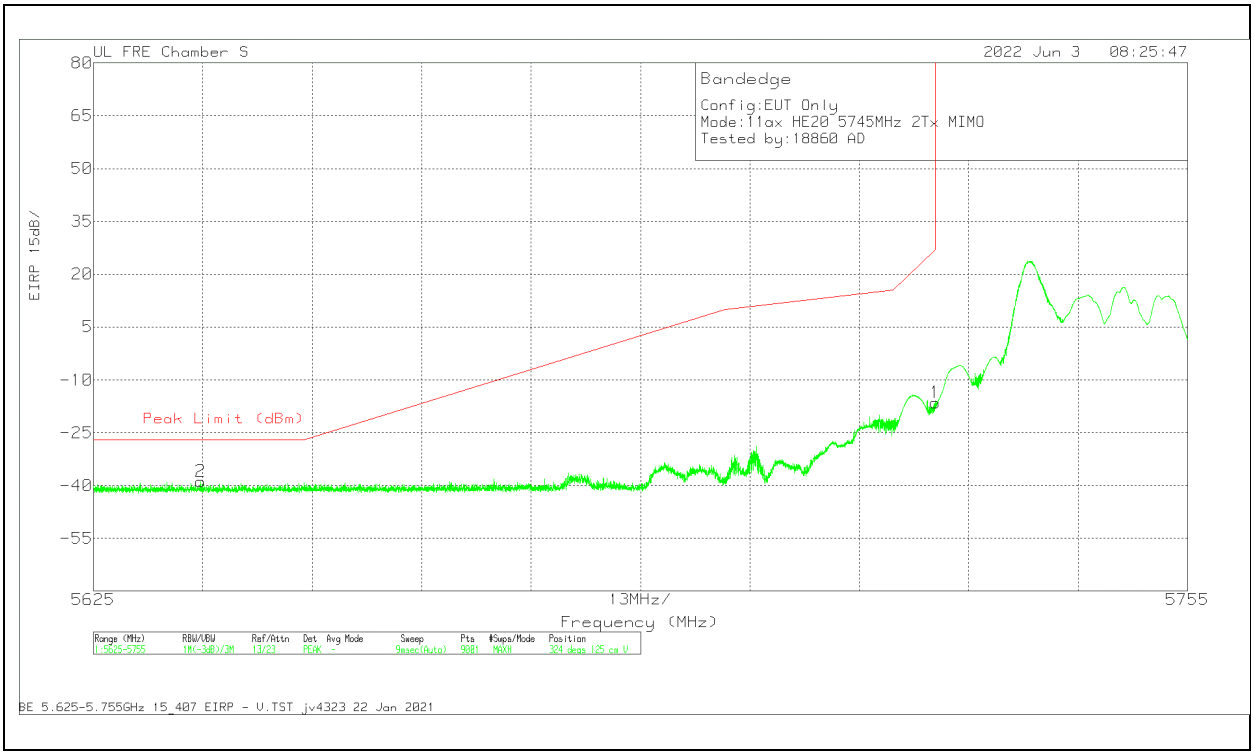
Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	-40.27	Pk	34.7	-30.2	11.8	0	-23.97	27	-50.97	12	363	H
2	5644.081	-55.44	Pk	34.7	-30.3	11.8	0	-39.24	-27	-12.24	12	363	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



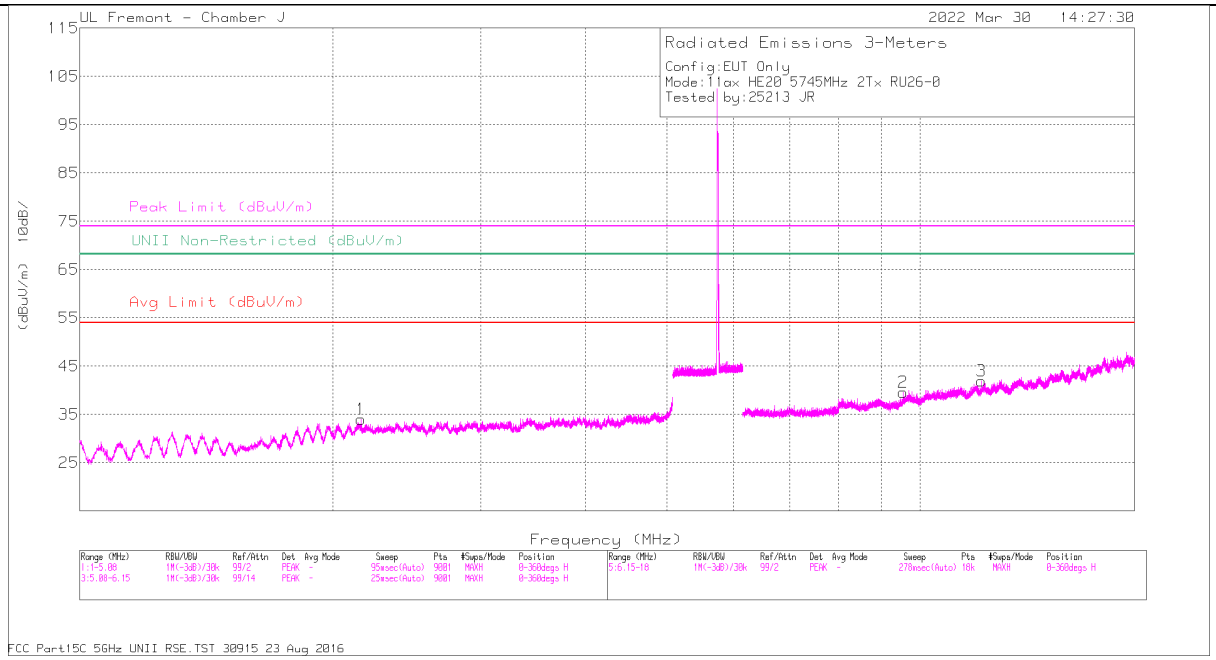
Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	-32.79	Pk	34.7	-30.2	11.8	0	-16.49	27	-43.49	324	125	V
2	5637.711	-55.04	Pk	34.7	-30.3	11.8	0	-38.84	-27	-11.84	324	125	V

Pk - Peak detector

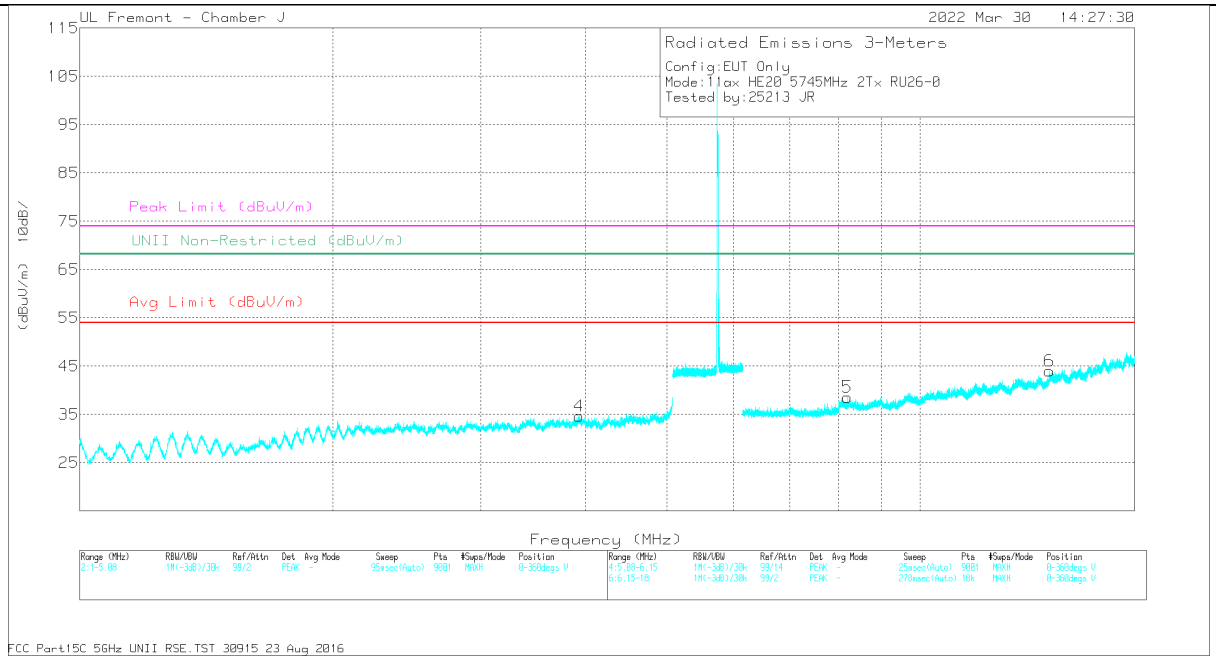
UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

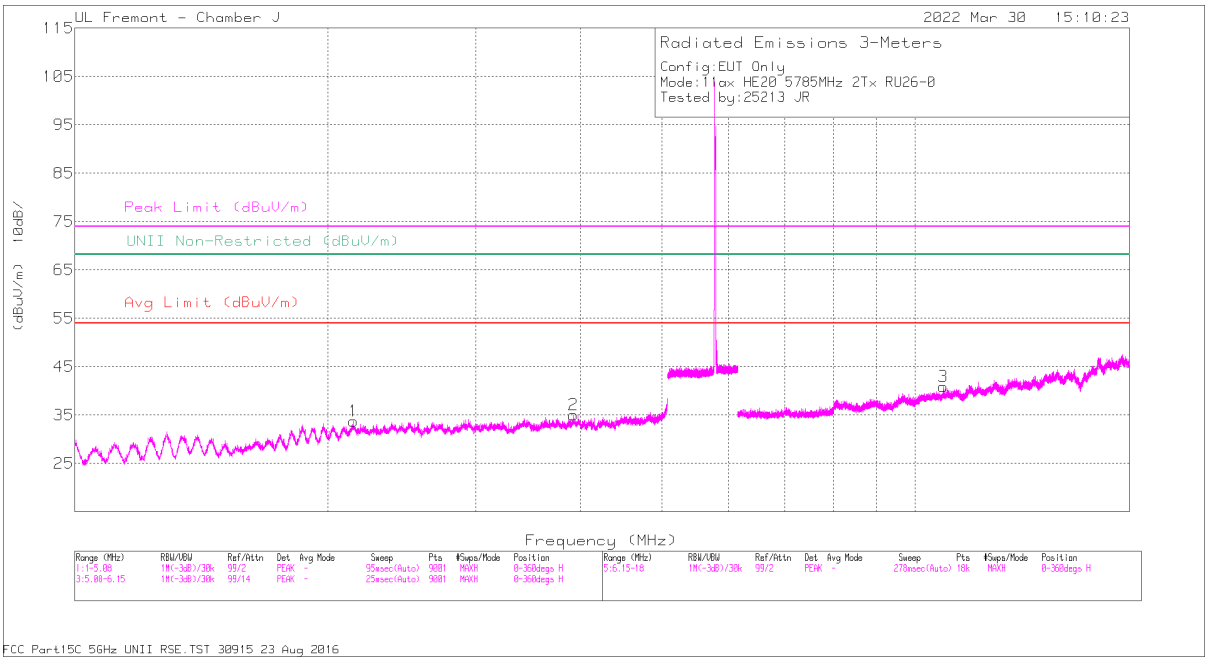
RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 206806 (dB/m)	Amp/Cbl/Fltr/Pad (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	2159.733	60.9	PK-U	31.5	-49.1	43.3	-	-	-	-	68.2	-24.9	219	397	H
2	9548.482	56.52	PK-U	36.6	-45.2	47.92	-	-	-	-	68.2	-20.28	23	381	H
3	* 11829.518	54.62	PK-U	38.6	-43.7	49.52	-	-	74	-24.48	-	-	320	135	H
	* 11828.875	43.53	ADR	38.6	-43.6	38.53	54	-15.47	-	-	-	-	320	135	H
4	* 3931.721	57.64	PK-U	33.6	-47.1	44.14	-	-	74	-29.86	-	-	174	104	V
	* 3930.159	46.04	ADR	33.6	-47.1	32.54	54	-21.46	-	-	-	-	174	104	V
5	* 8200.006	56.25	PK-U	35.9	-45.2	46.95	-	-	74	-27.05	-	-	313	380	V
	* 8200.365	44.98	ADR	35.9	-45.2	35.68	54	-18.32	-	-	-	-	313	380	V
6	14263.102	55.11	PK-U	39.1	-42.6	51.61	-	-	-	-	68.2	-16.59	82	152	V

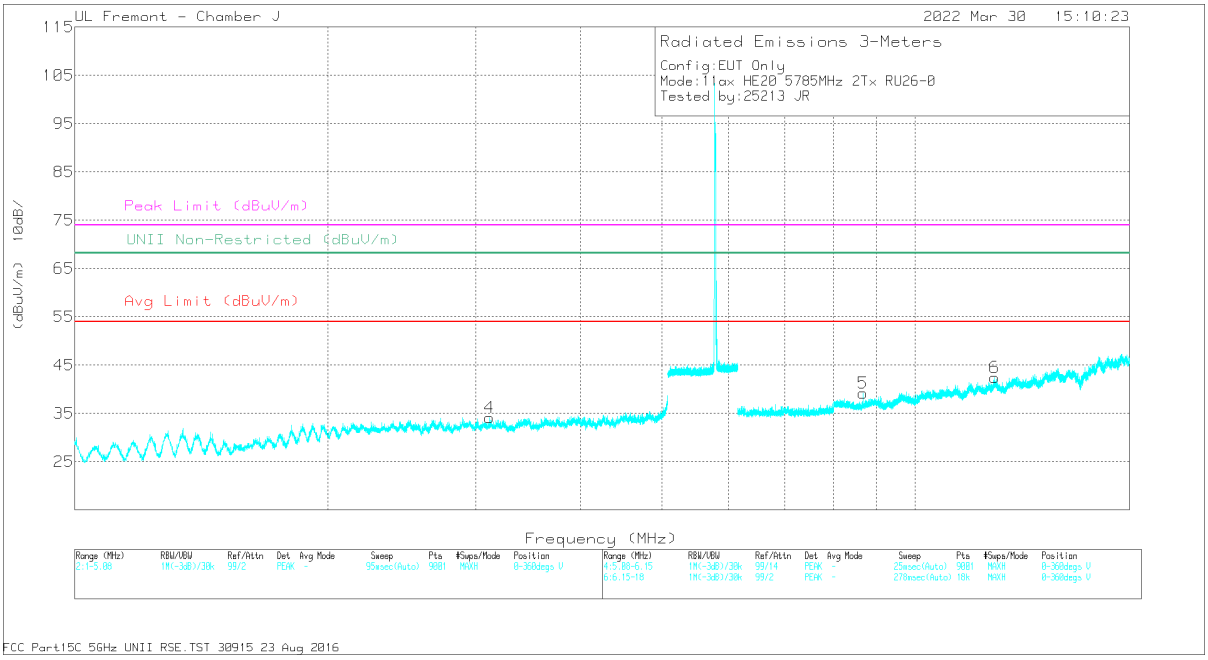
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL LLC

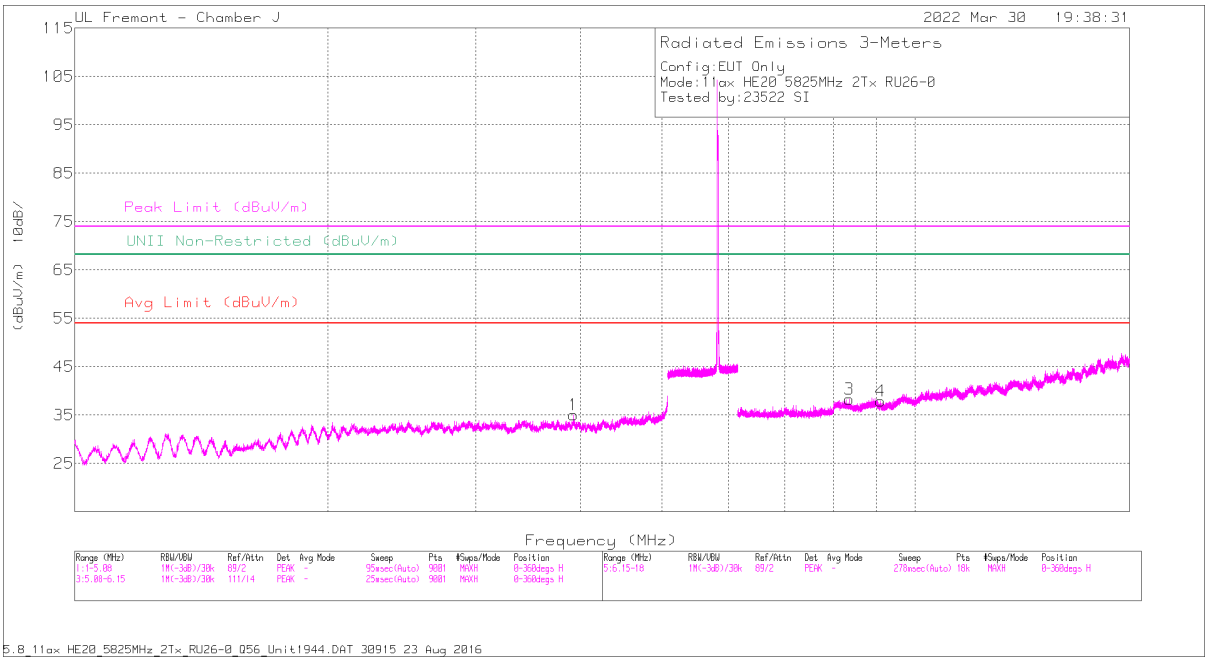
RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 206806 (dB/m)	Amp/Cbl/Fltr/Pad (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	2148.635	60.45	PK-U	31.6	-49.3	42.75	-	-	-	-	68.2	-25.45	178	109	H
2	* 3927.184	57.86	PK-U	33.7	-47.1	44.46	-	-	74	-29.54	-	-	309	186	H
	* 3924.163	46.05	ADR	33.7	-47.1	32.65	54	-21.35	-	-	-	-	309	186	H
4	3116.134	57.27	PK-U	32.9	-47.2	42.97	-	-	-	-	68.2	-25.23	273	337	V
3	* 10808.491	56.77	PK-U	37.9	-45.4	49.27	-	-	74	-24.73	-	-	79	194	H
	* 10807.308	45.23	ADR	37.9	-45.4	37.73	54	-16.27	-	-	-	-	79	194	H
5	8675.674	55.22	PK-U	36	-44.8	46.42	-	-	-	-	68.2	-21.78	171	178	V
6	* 12446.466	55.27	PK-U	39.1	-43.5	50.87	-	-	74	-23.13	-	-	308	311	V
	* 12444.432	43.28	ADR	39	-43.5	38.78	54	-15.22	-	-	-	-	308	311	V

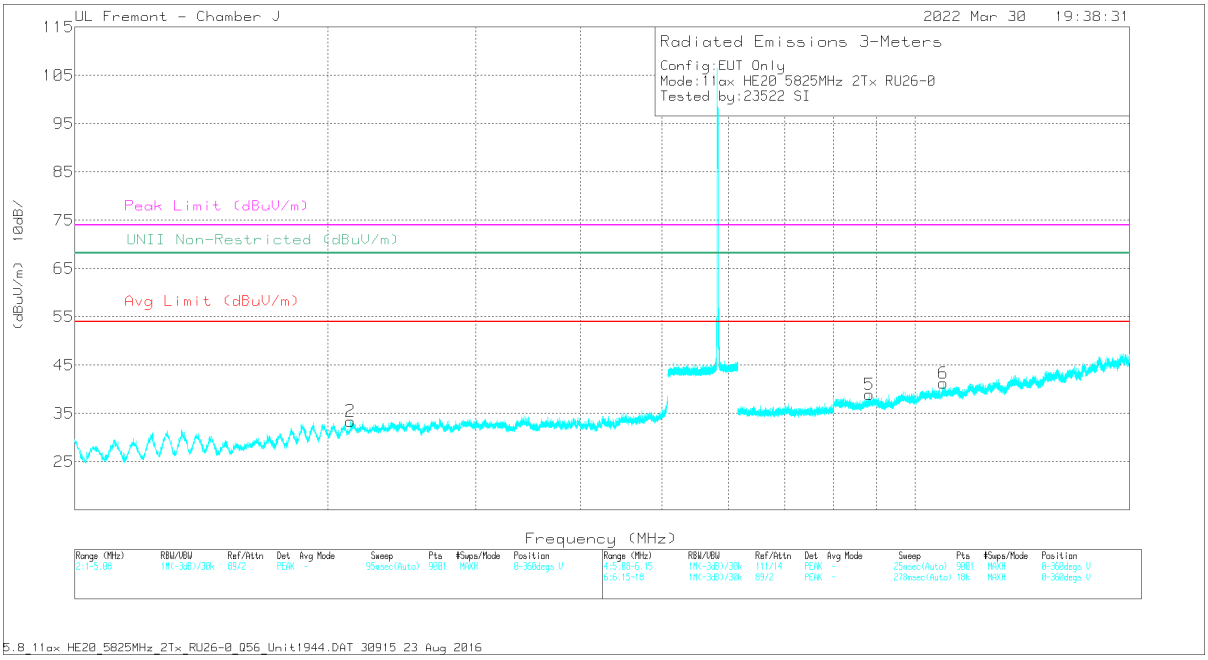
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL LLC

RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 206806 (dB/m)	Amp/Cbl/Fltr/Pad (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	* 3925.23	57.77	PK-U	33.7	-47.1	44.37	-	-	74	-29.63	-	-	86	108	H
	* 3922.548	46.18	ADR	33.6	-47.2	32.58	54	-21.42	-	-	-	-	86	108	H
2	2131.956	61	PK-U	31.5	-49.4	43.1	-	-	-	-	68.2	-25.1	134	129	V
3	* 8358.043	56.85	PK-U	35.9	-44.9	47.85	-	-	74	-26.15	-	-	141	303	H
	* 8358.057	45.13	ADR	35.9	-44.9	36.13	54	-17.87	-	-	-	-	141	303	H
4	* 9094.06	56.02	PK-U	36.3	-45.1	47.22	-	-	74	-26.78	-	-	318	353	H
	* 9094.992	44.32	ADR	36.3	-45.1	35.52	54	-18.48	-	-	-	-	318	353	H
5	8820.847	57.09	PK-U	36.1	-45	48.19	-	-	-	-	68.2	-20.01	327	235	V
6	* 10812.945	57.54	PK-U	37.9	-45.3	50.14	-	-	74	-23.86	-	-	103	153	V
	* 10813.325	45.41	ADR	37.9	-45.3	38.01	54	-15.99	-	-	-	-	103	153	V

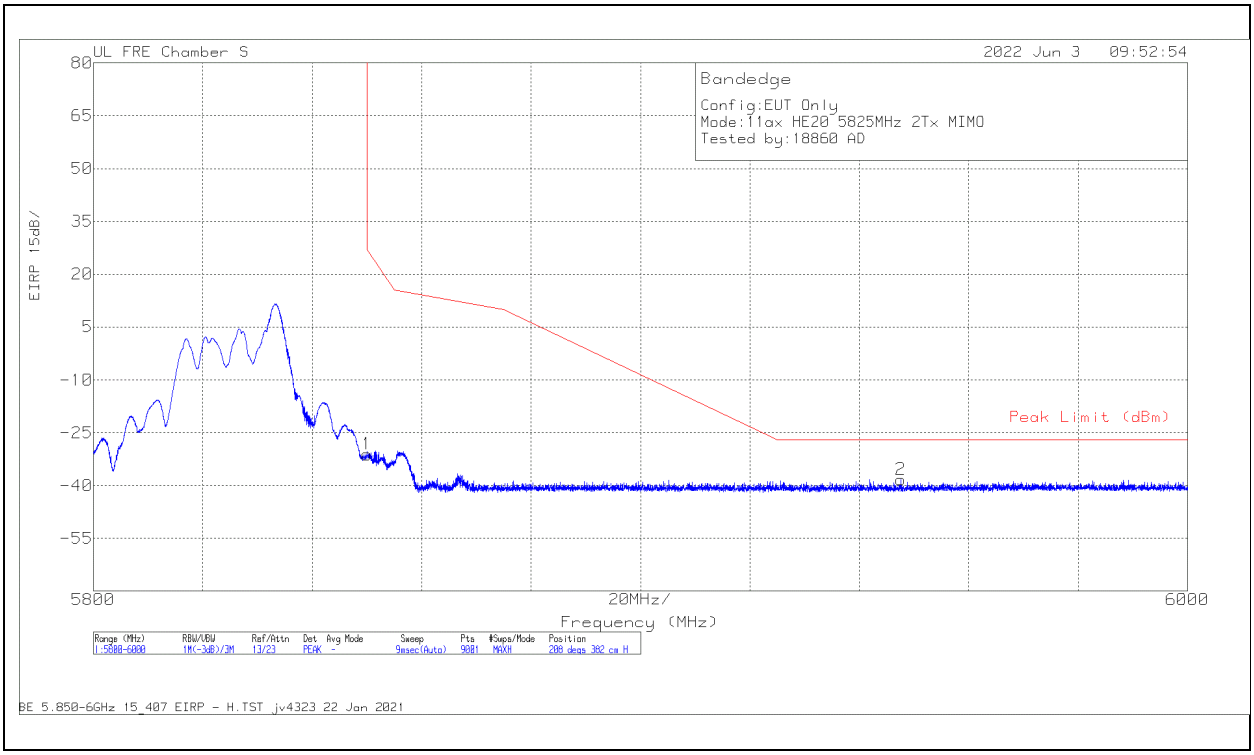
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tones, RU Index 8

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

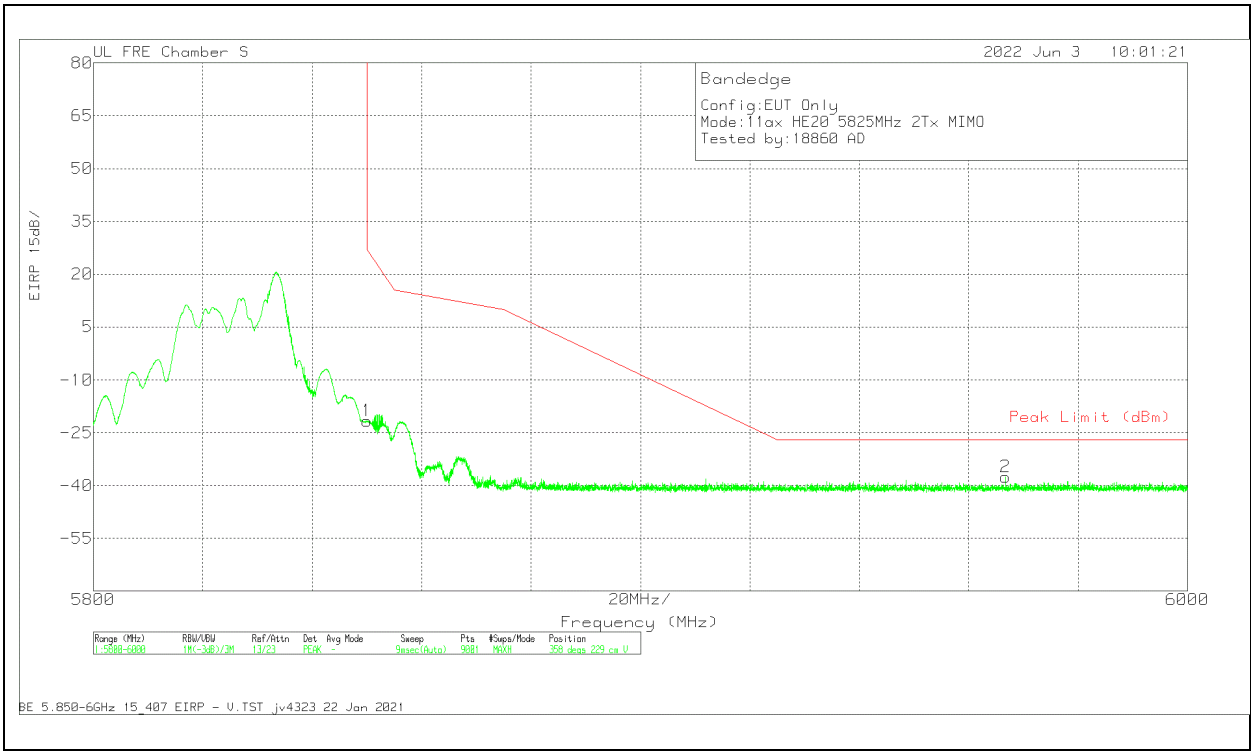


Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5850	-47.97	Pk	35	-30	11.8	0	-31.17	27	-58.17	208	382	H
2	5947.621	-55.31	Pk	35.1	-29.8	11.8	0	-38.21	-27	-11.21	208	382	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5850	-38.47	Pk	35	-30	11.8	0	-21.67	27	-48.67	358	229	V
2	5966.709	-54.78	Pk	35.1	-29.7	11.8	0	-37.58	-27	-10.58	358	229	V

Pk - Peak detector

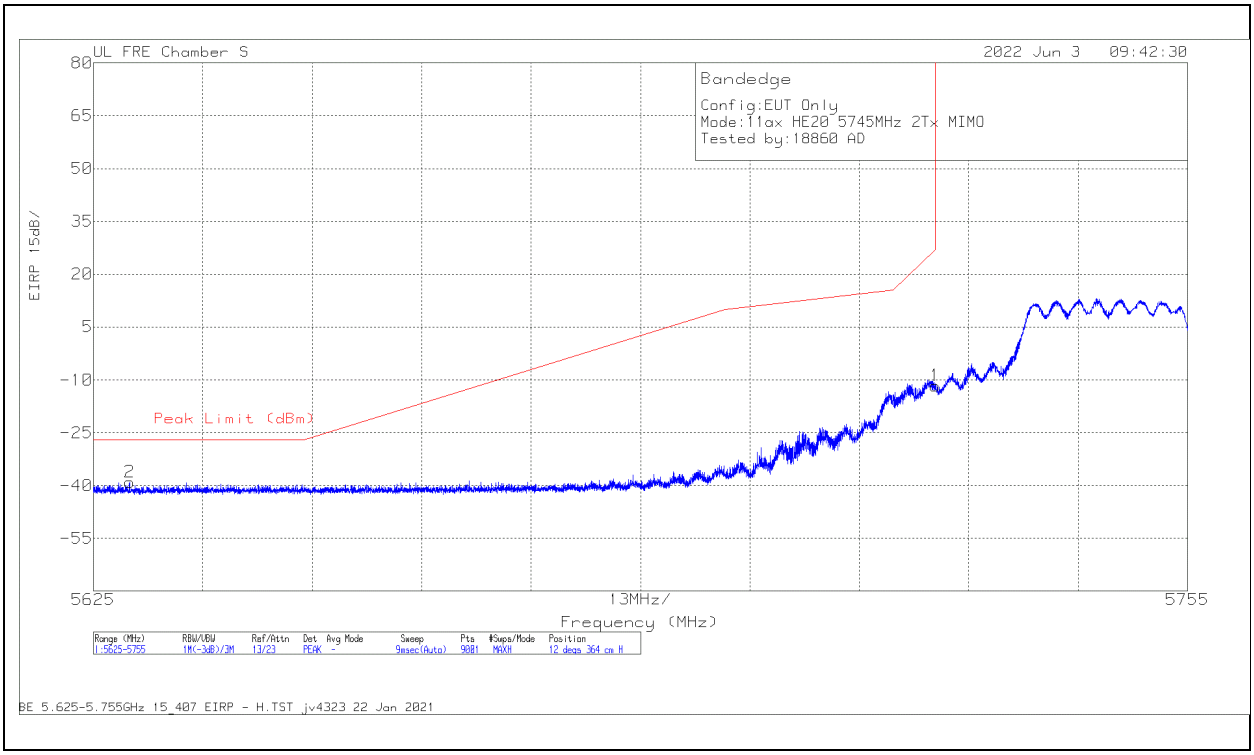
UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL LLC

2TX Antenna 6 + Antenna 5 OFDMA MODE: SU, Single User

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

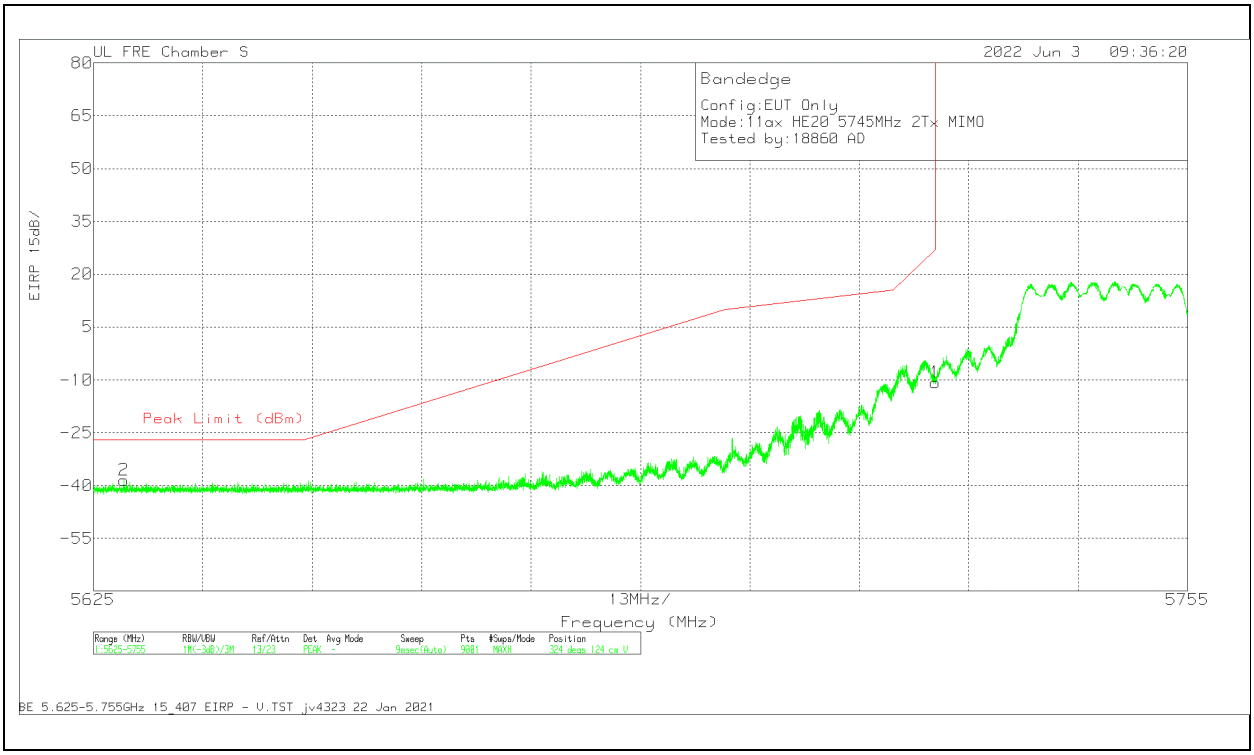


Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	-28	Pk	34.7	-30.2	11.8	0	-11.7	27	-38.7	12	364	H
2	5629.29	-55.15	Pk	34.7	-30.4	11.8	0	-39.05	-27	-12.05	12	364	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	-27.1	Pk	34.7	-30.2	11.8	0	-10.8	27	-37.8	324	124	V
2	5628.64	-54.53	Pk	34.7	-30.4	11.8	0	-38.43	-27	-11.43	324	124	V

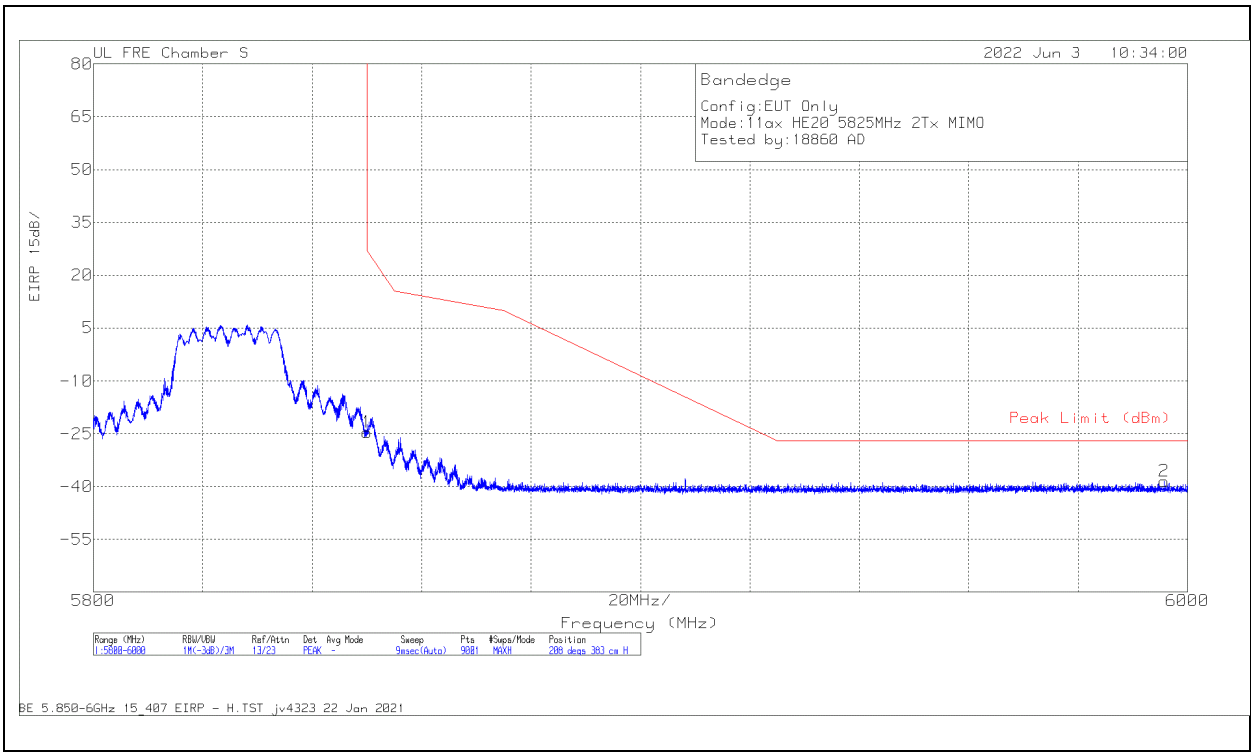
Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL LLC

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

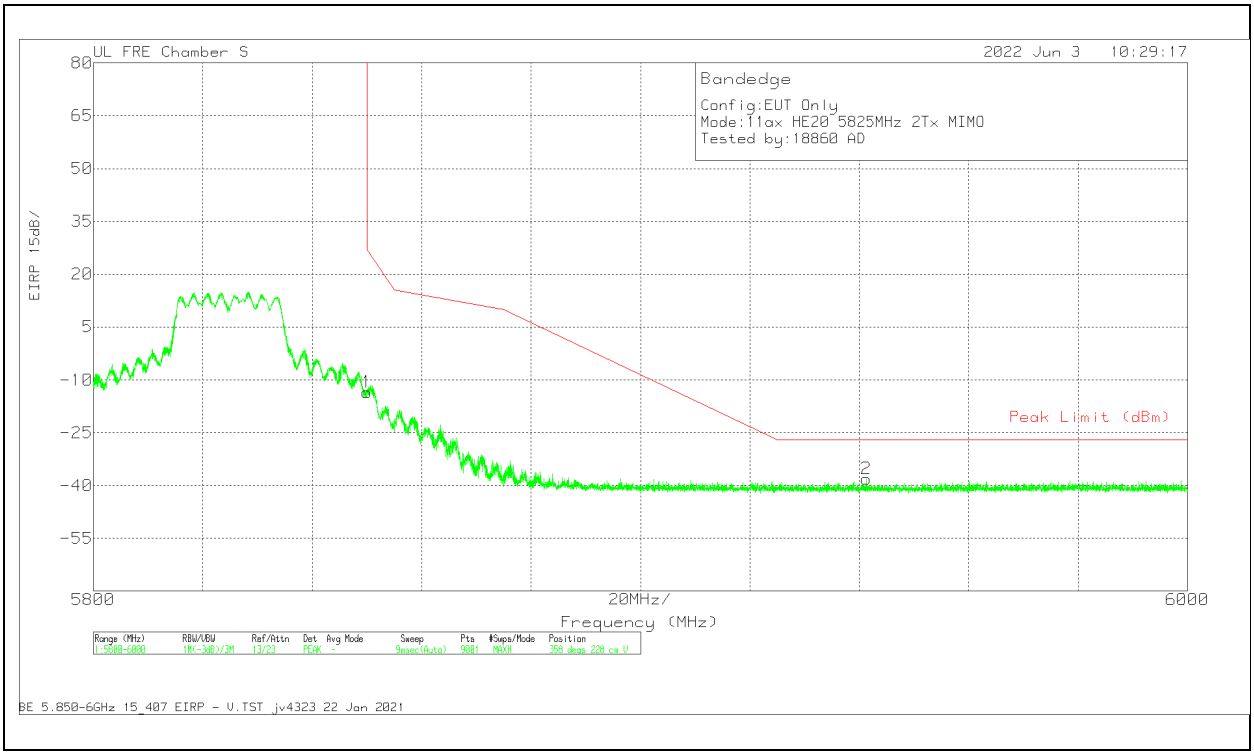


Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5850	-41.44	Pk	35	-30	11.8	0	-24.64	27	-51.64	208	383	H
2	5995.731	-55.88	Pk	35.2	-29.6	11.8	0	-38.48	-27	-11.48	208	383	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



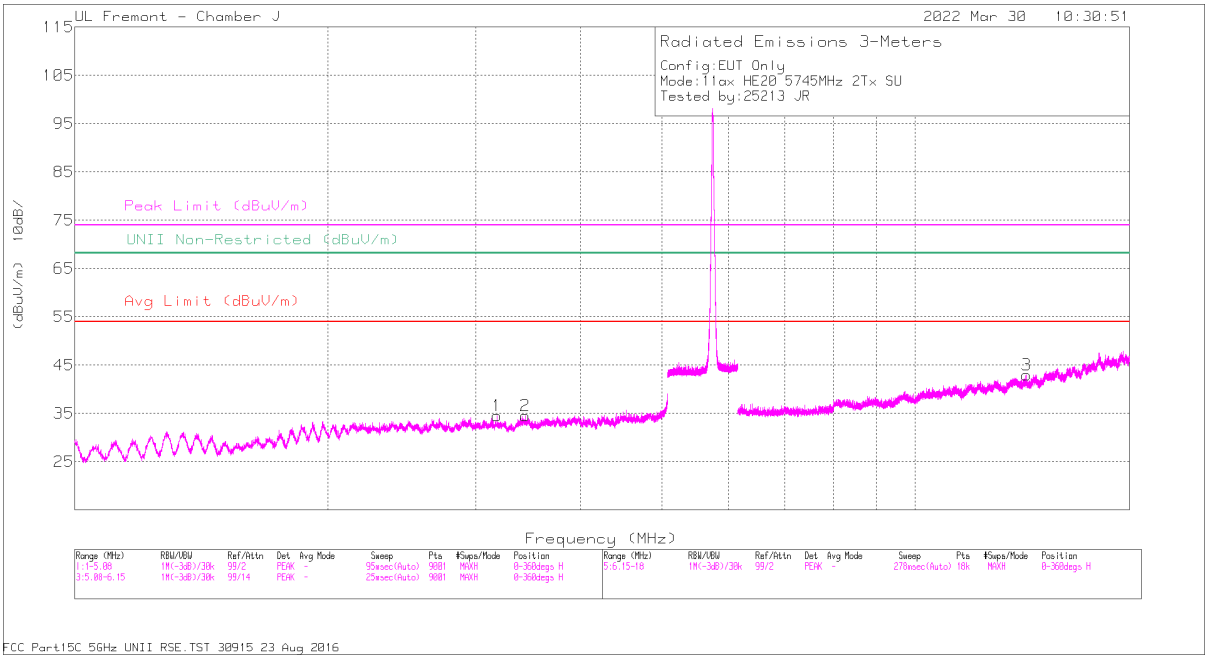
Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5850	-30.32	Pk	35	-30	11.8	0	-13.52	27	-40.52	358	228	V
2	5941.332	-55.13	Pk	35.1	-29.8	11.8	0	-38.03	-27	-11.03	358	228	V

Pk - Peak detector

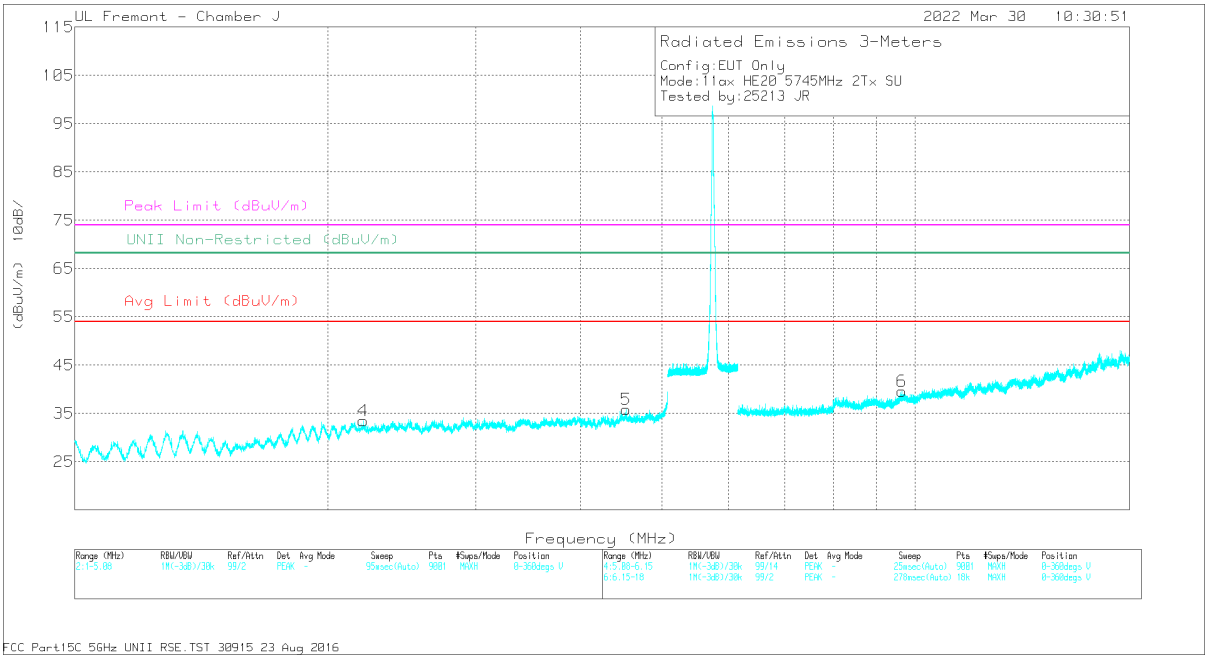
UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL LLC

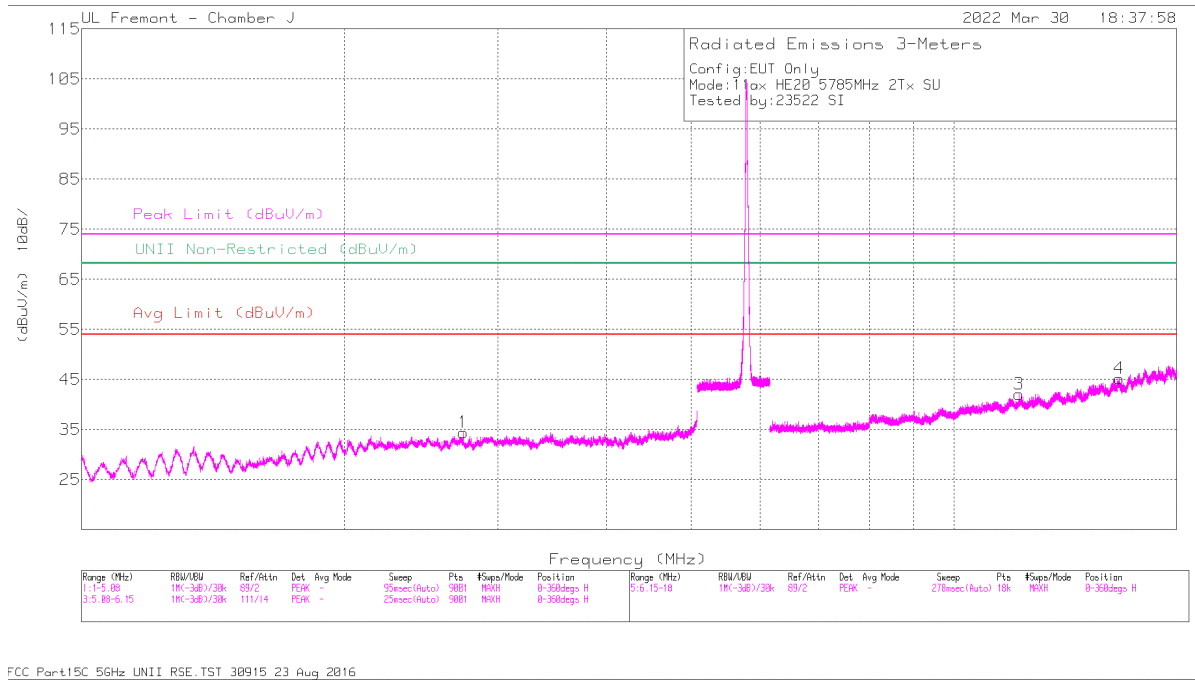
RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 206806 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3179.57	57.73	PK-U	32.7	-47	0	43.43	-	-	-	-	68.2	-24.77	8	339	H
2	3432.957	57.74	PK-U	32.6	-46.5	0	43.84	-	-	-	-	68.2	-24.36	260	254	H
3	13588.056	56.63	PK-U	38.8	-43.6	0	51.83	-	-	-	-	68.2	-16.37	4	120	H
4	* 2206.602	60.58	PK-U	31.6	-49	0	43.18	-	-	74	-30.82	-	-	334	145	V
	* 2203.193	48.51	ADR	31.6	-49.1	0.1	31.11	54	-22.89	-	-	-	-	334	145	V
5	* 4529.09	57.68	PK-U	34	-47	0	44.68	-	-	74	-29.32	-	-	335	276	V
	* 4527.827	45.91	ADR	34	-47	0.1	33.01	54	-20.99	-	-	-	-	335	276	V
6	9652.72	57.47	PK-U	36.8	-45.4	0	48.87	-	-	-	-	68.2	-19.33	21	250	V

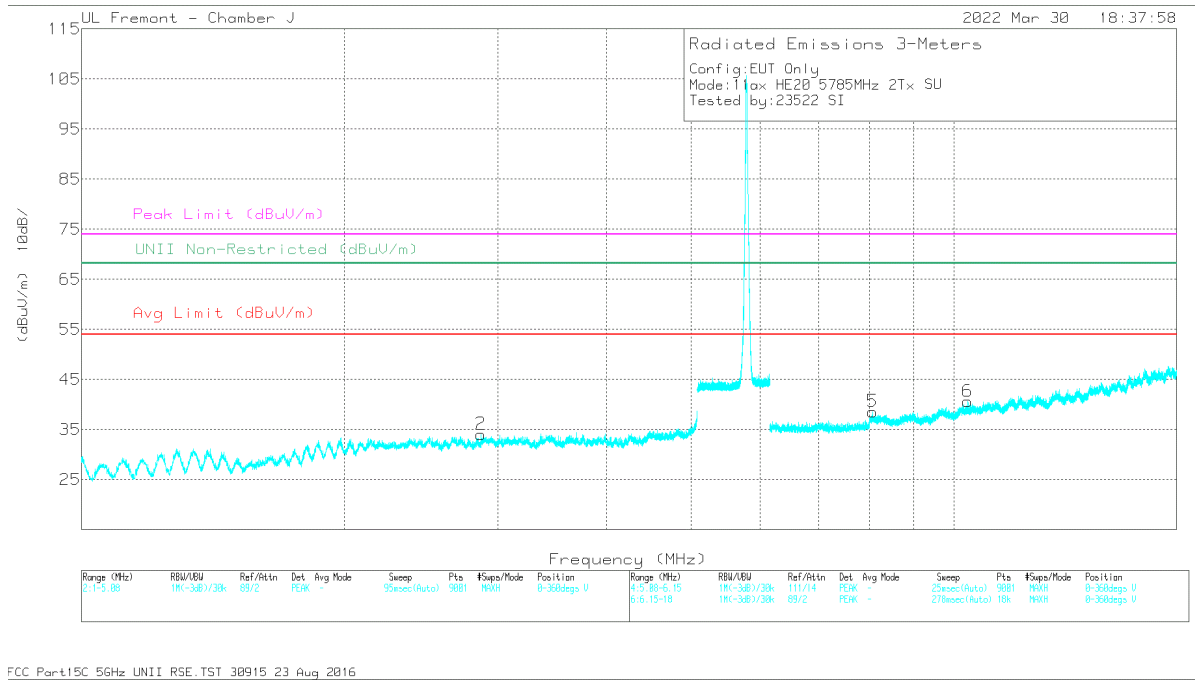
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL LLC

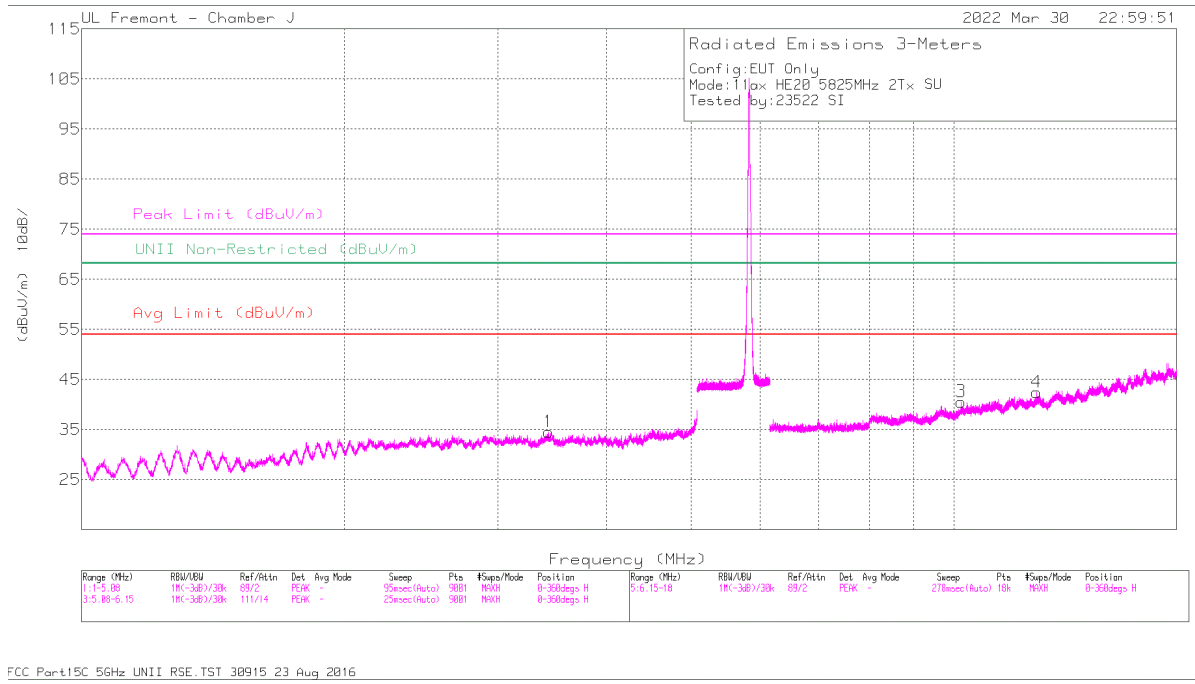
RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 206806 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2738.532	59.86	PK-U	32.5	-47.9	0	44.46	-	-	74	-29.54	-	-	284	216	H
	* 2736.624	47.01	ADR	32.5	-47.9	0.1	31.71	54	-22.29	-	-	-	-	284	216	H
2	* 2872.366	58.34	PK-U	32.5	-47.9	0	42.94	-	-	74	-31.06	-	-	44	156	V
	* 2869.678	46.58	ADR	32.5	-48	0.1	31.18	54	-22.82	-	-	-	-	44	156	V
3	* 11887.514	54.97	PK-U	38.7	-43.5	0	50.17	-	-	74	-23.83	-	-	274	182	H
	* 11887.633	43.31	ADR	38.7	-43.5	0.1	38.61	54	-15.39	-	-	-	-	274	182	H
4	* 15470.873	55.45	PK-U	40.2	-41.5	0	54.15	-	-	74	-19.85	-	-	9	108	H
	* 15469.45	44.27	ADR	40.2	-41.6	0.1	42.97	54	-11.03	-	-	-	-	9	108	H
5	* 8070.073	56.73	PK-U	35.9	-45	0	47.63	-	-	74	-26.37	-	-	237	266	V
	* 8068.037	45.06	ADR	35.9	-45	0.1	36.06	54	-17.94	-	-	-	-	237	266	V
6	10371.906	57.72	PK-U	37.5	-45.7	0	49.52	-	-	-	-	68.2	-18.68	105	298	V

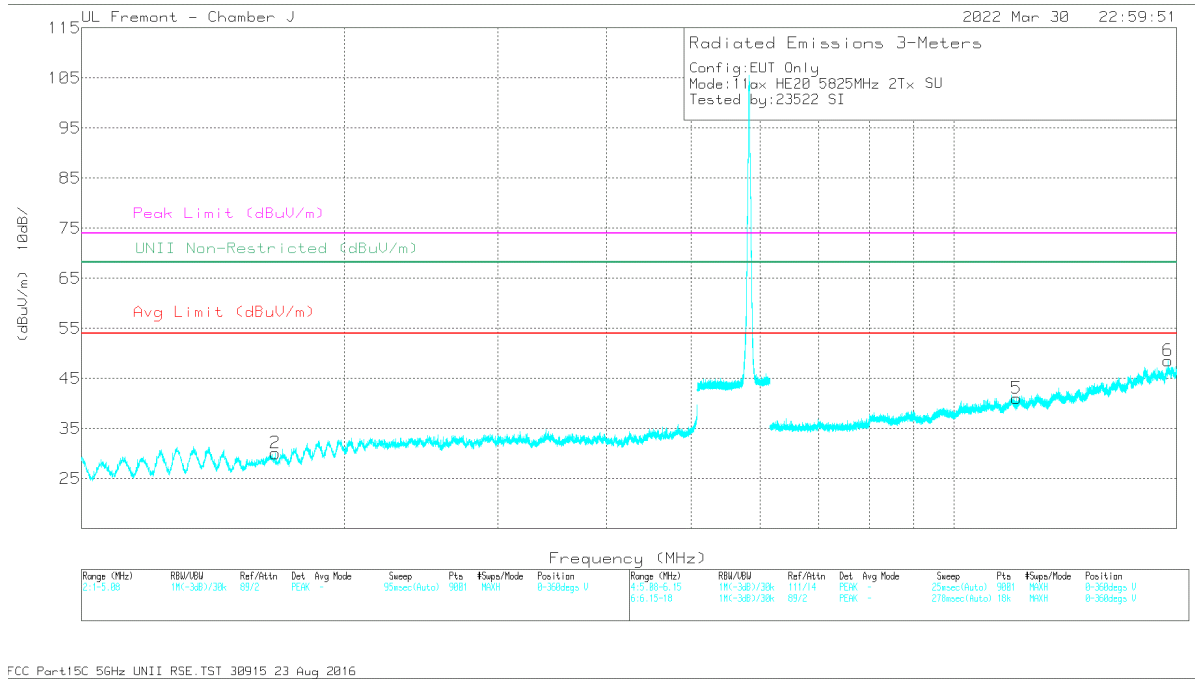
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 206806 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3430.755	57.46	PK-U	32.5	-46.5	0	43.46	-	-	-	-	68.2	-24.74	117	214	H
2	* 1666.118	60.16	PK-U	28.6	-49.1	0	39.66	-	-	74	-34.34	-	-	73	137	V
	* 1667.191	47.9	ADR	28.6	-49.1	0.1	27.50	54	-26.50	-	-	-	-	73	137	V
3	10190.719	56.8	PK-U	37.3	-45.5	0	48.6	-	-	-	-	68.2	-19.6	47	176	H
4	* 12449.531	54.91	PK-U	39.1	-43.6	0	50.41	-	-	74	-23.59	-	-	322	173	H
	* 12449.659	43.37	ADR	39.1	-43.6	0.1	38.97	54	-15.03	-	-	-	-	322	173	H
5	* 11789.067	55.55	PK-U	38.6	-43.9	0	50.25	-	-	74	-23.75	-	-	95	252	V
	* 11785.857	44.17	ADR	38.6	-44	0.1	38.87	54	-15.13	-	-	-	-	95	252	V
6	17613.27	55.15	PK-U	41.5	-40.5	0	56.15	-	-	-	-	68.2	-12.05	173	288	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

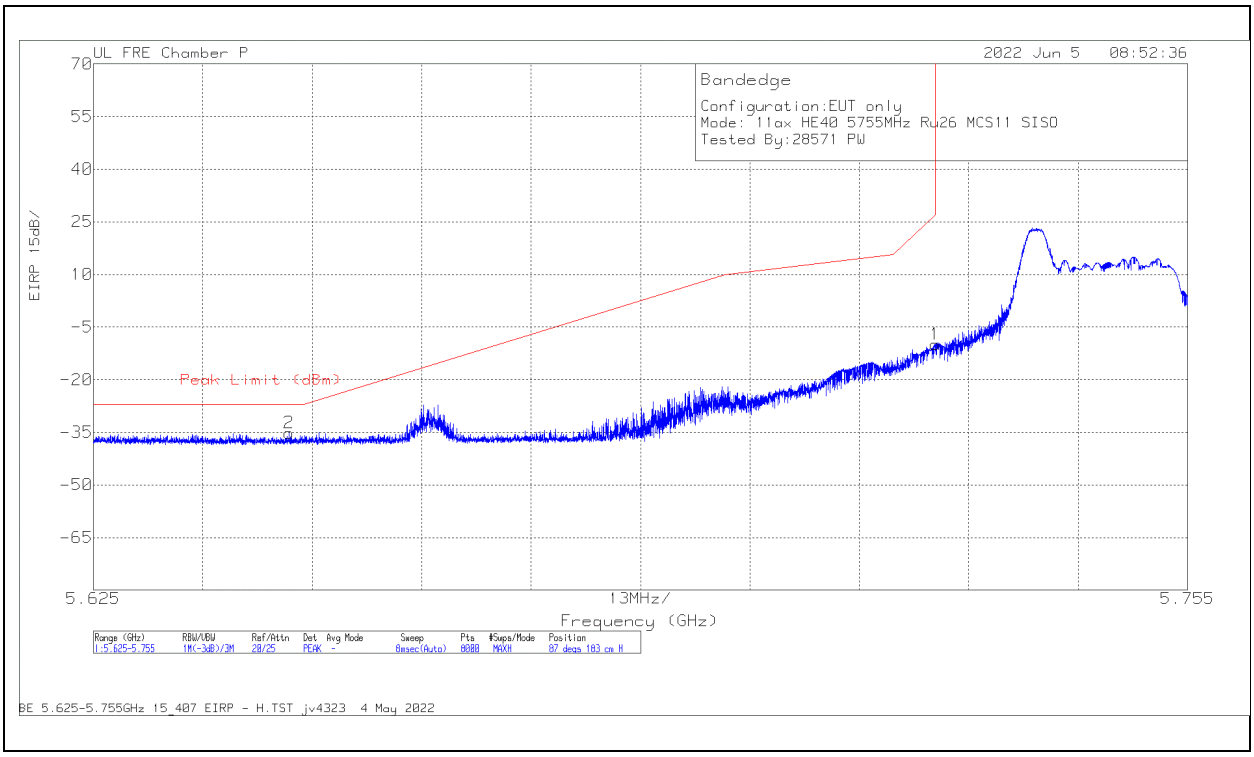
UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

1.1.23. TX ABOVE 1 GHz 802.11ax HE40 MODE IN THE 5.8GHz BAND

1TX Antenna 6 MODE: 26-Tones, RU Index 0

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

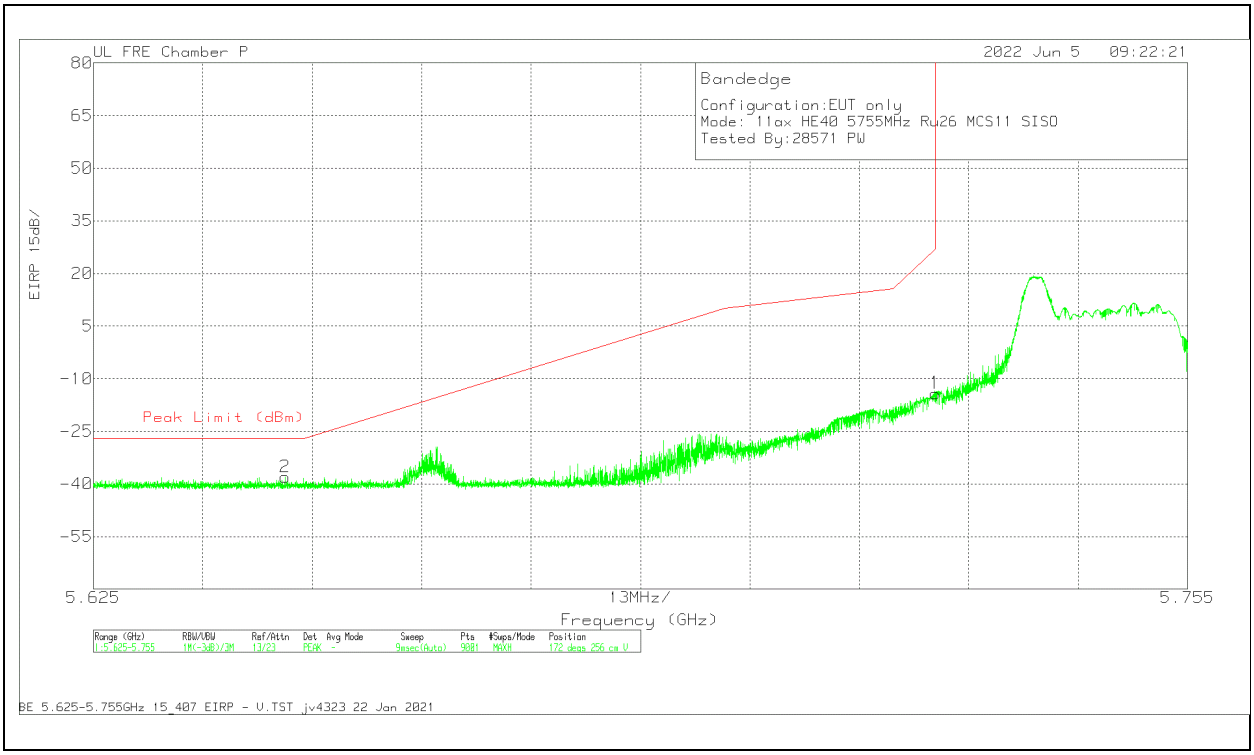


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF 41112 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-28.48	Pk	35.1	-28.4	11.8	0	-9.98	27	-36.98	87	183	H
2	5.64824	-53.42	Pk	35	-28.6	11.8	0	-35.22	-27	-8.22	87	183	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF 41112 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-32.65	Pk	35.1	-28.4	11.8	0	-14.15	27	-41.15	172	256	V
2	5.647764	-56.15	Pk	35	-28.6	11.8	0	-37.95	-27	-10.95	172	256	V

Pk - Peak detector

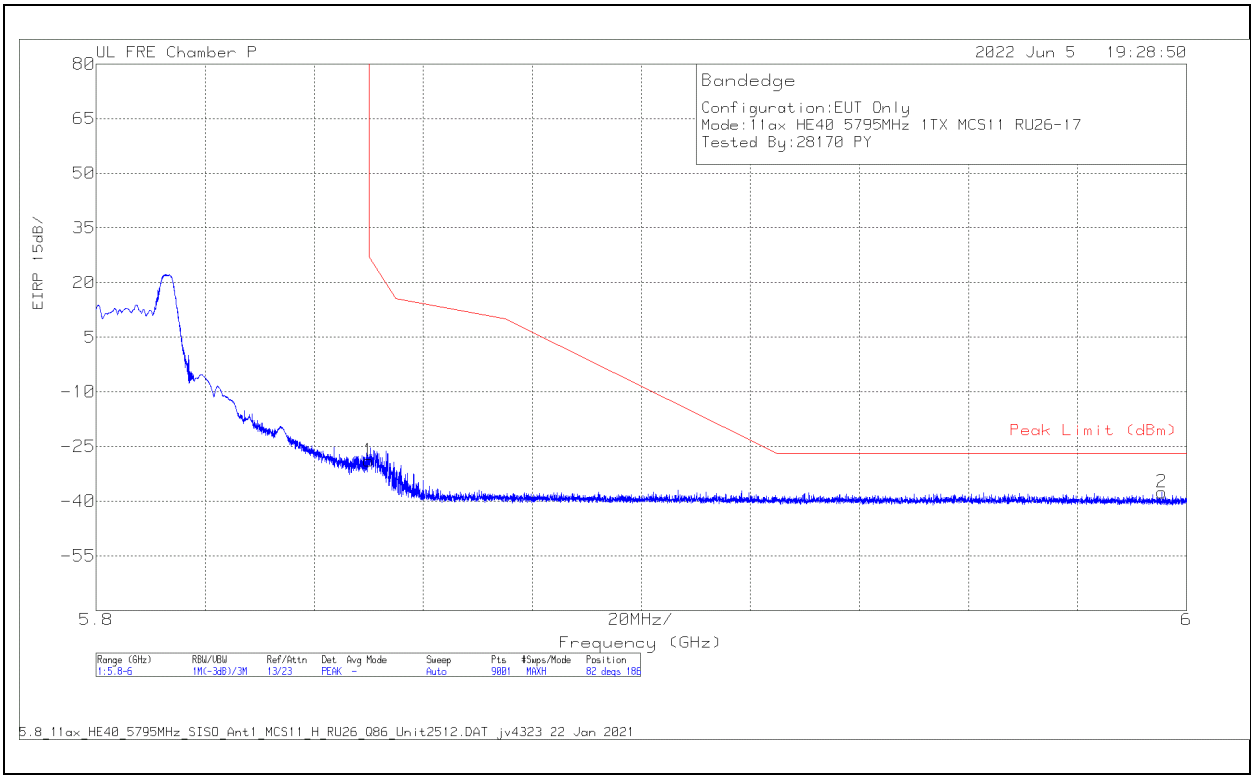
UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL LLC

1TX Antenna 6 MODE: 26-Tones, RU Index 17

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

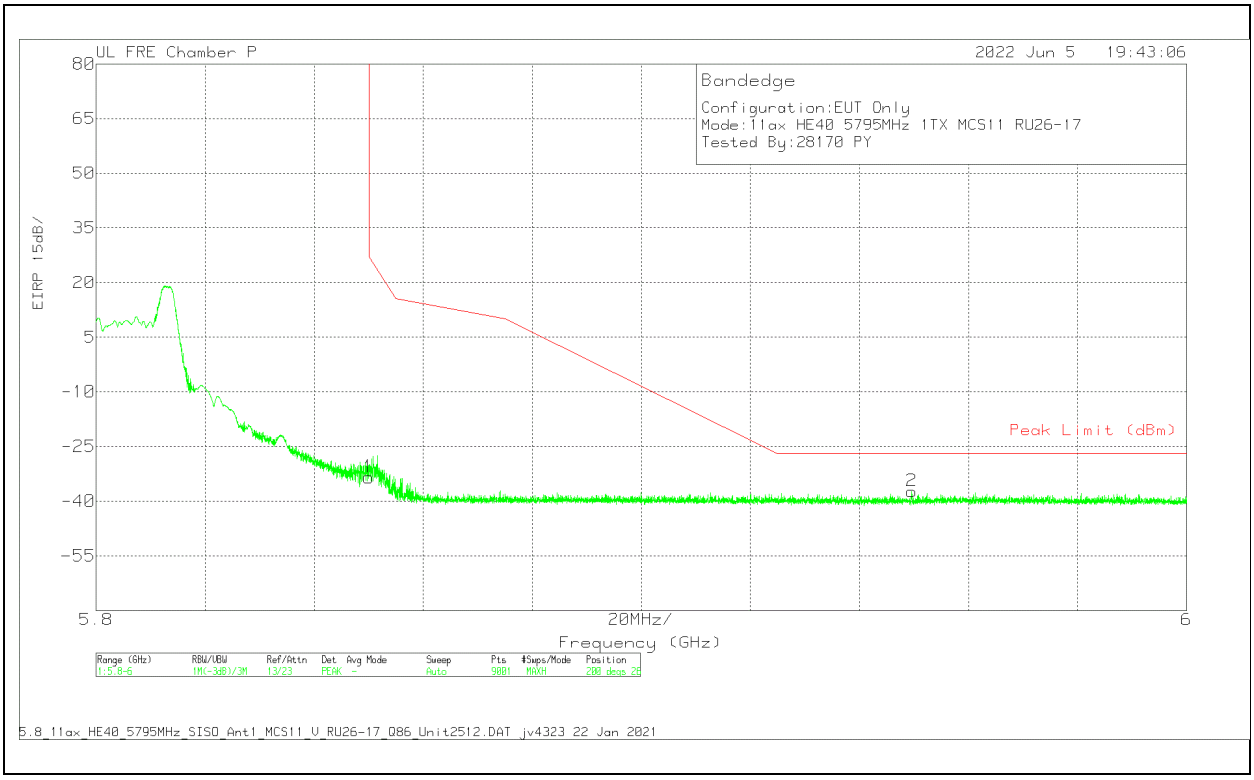


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF 41112 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-47.8	Pk	35.4	-28.3	11.8	-28.9	27	-55.9	82	186	H
2	5.995487	-56.39	Pk	35.5	-28.4	11.8	-37.49	-27	-10.49	82	186	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF 41112 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-52.32	Pk	35.4	-28.3	11.8	-33.42	27	-60.42	200	267	V
2	5.949576	-56.24	Pk	35.5	-28.3	11.8	-37.24	-27	-10.24	200	267	V

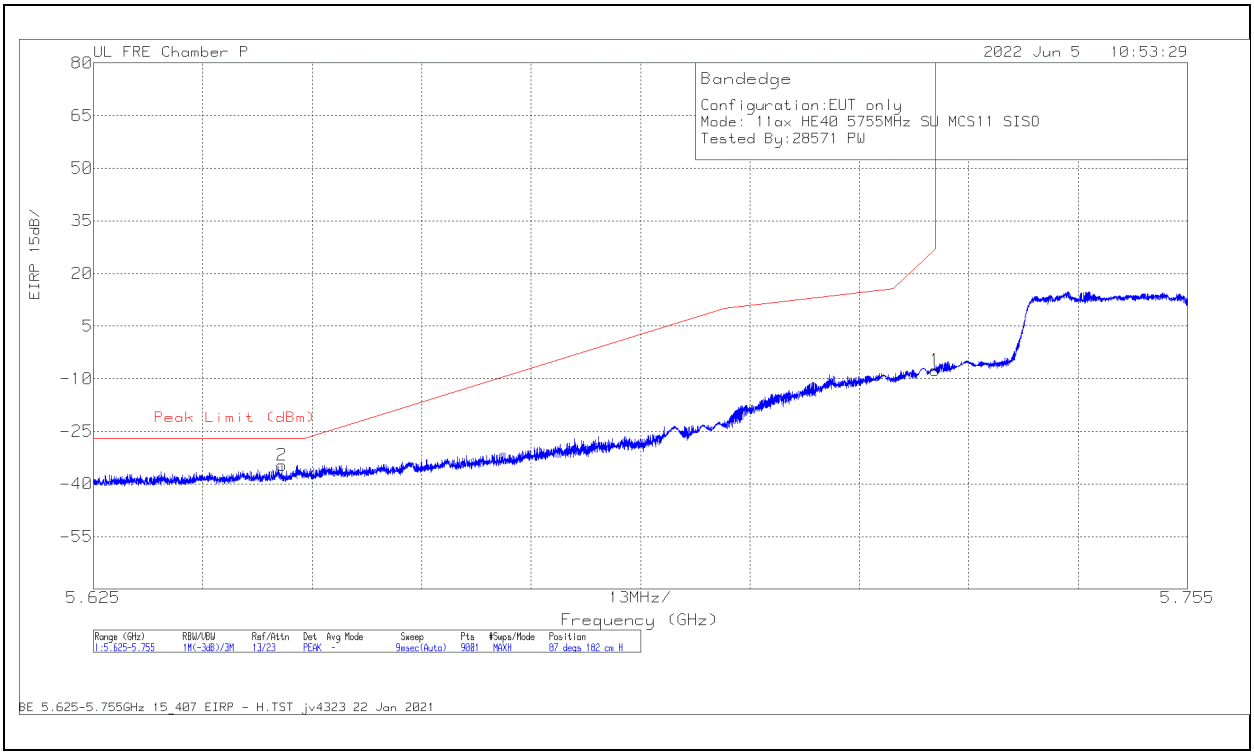
Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

1TX Antenna 6 MODE: SU, Single User

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

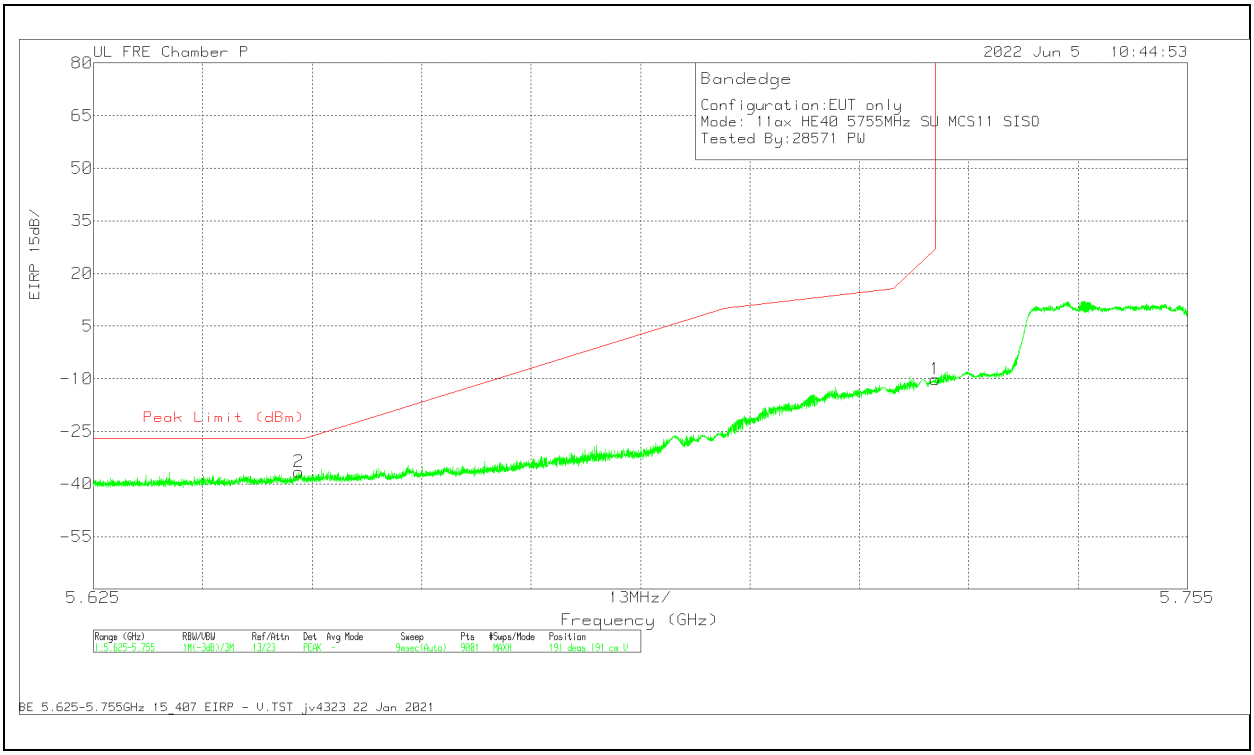


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF 41112 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-26.07	Pk	35.1	-28.4	11.8	0	-7.57	27	-34.57	87	182	H
2	5.647374	-52.79	Pk	35	-28.6	11.8	0	-34.59	-27	-7.59	87	182	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



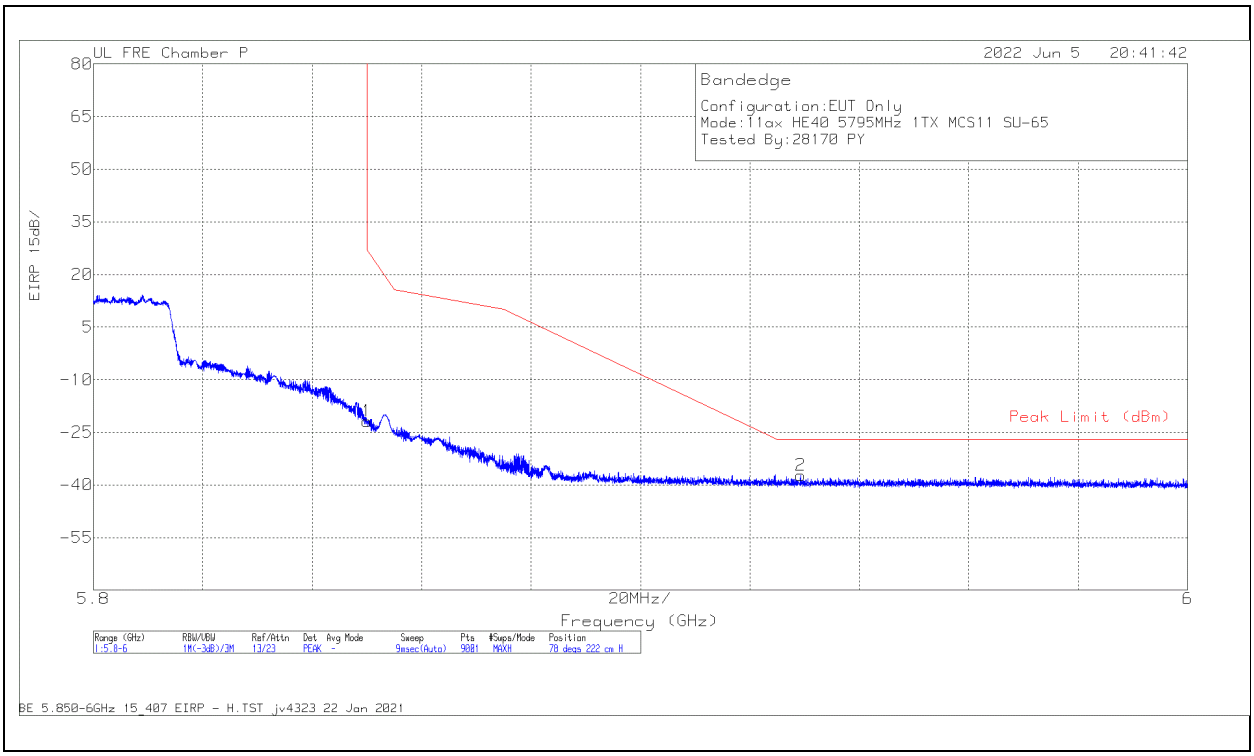
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF 41112 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-28.61	Pk	35.1	-28.4	11.8	0	-10.11	27	-37.11	191	191	V
2	5.649367	-54.9	Pk	35	-28.5	11.8	0	-36.6	-27	-9.6	191	191	V

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



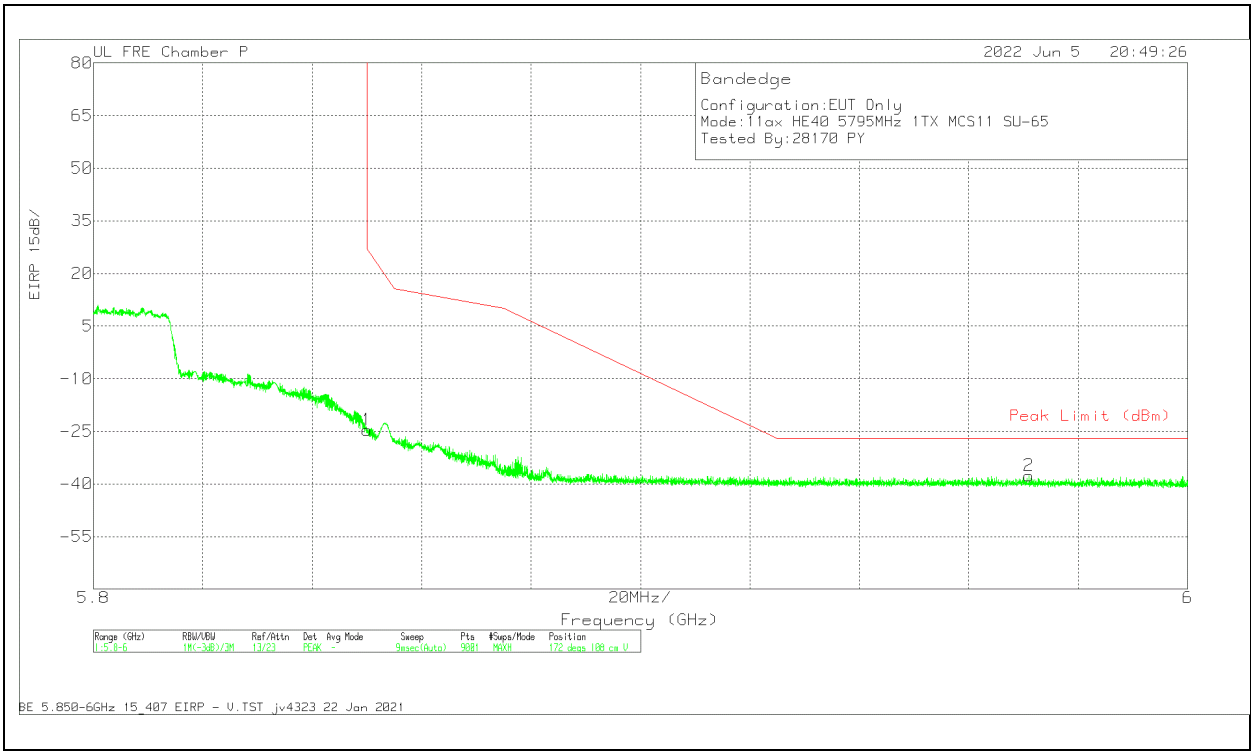
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF 41112 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-40.7	Pk	35.4	-28.3	11.8	-21.8	27	-48.8	78	222	H
2	5.929243	-56.22	Pk	35.5	-28.3	11.8	-37.22	-27	-10.22	78	222	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF 41112 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-43.61	Pk	35.4	-28.3	11.8	-24.71	27	-51.71	172	108	V
2	5.970976	-56.63	Pk	35.5	-28.3	11.8	-37.63	-27	-10.63	172	108	V

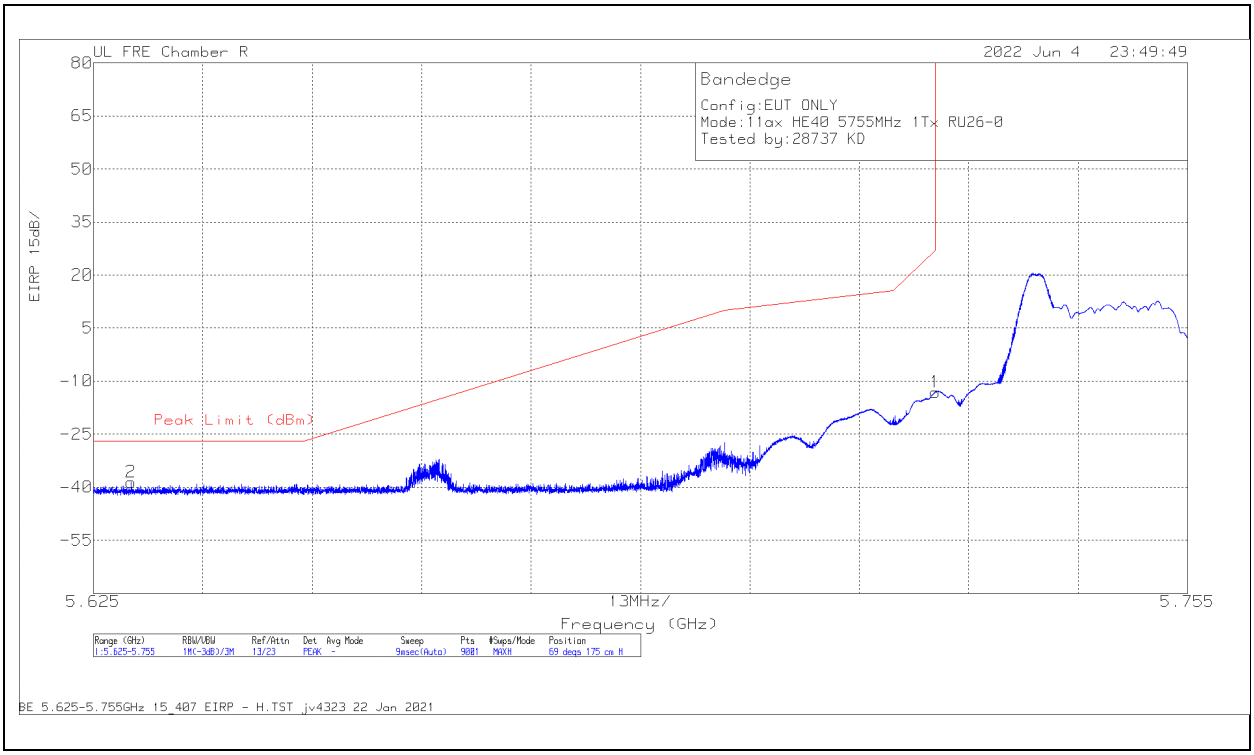
Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

1TX Antenna 5 MODE: 26-Tones, RU Index 0

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

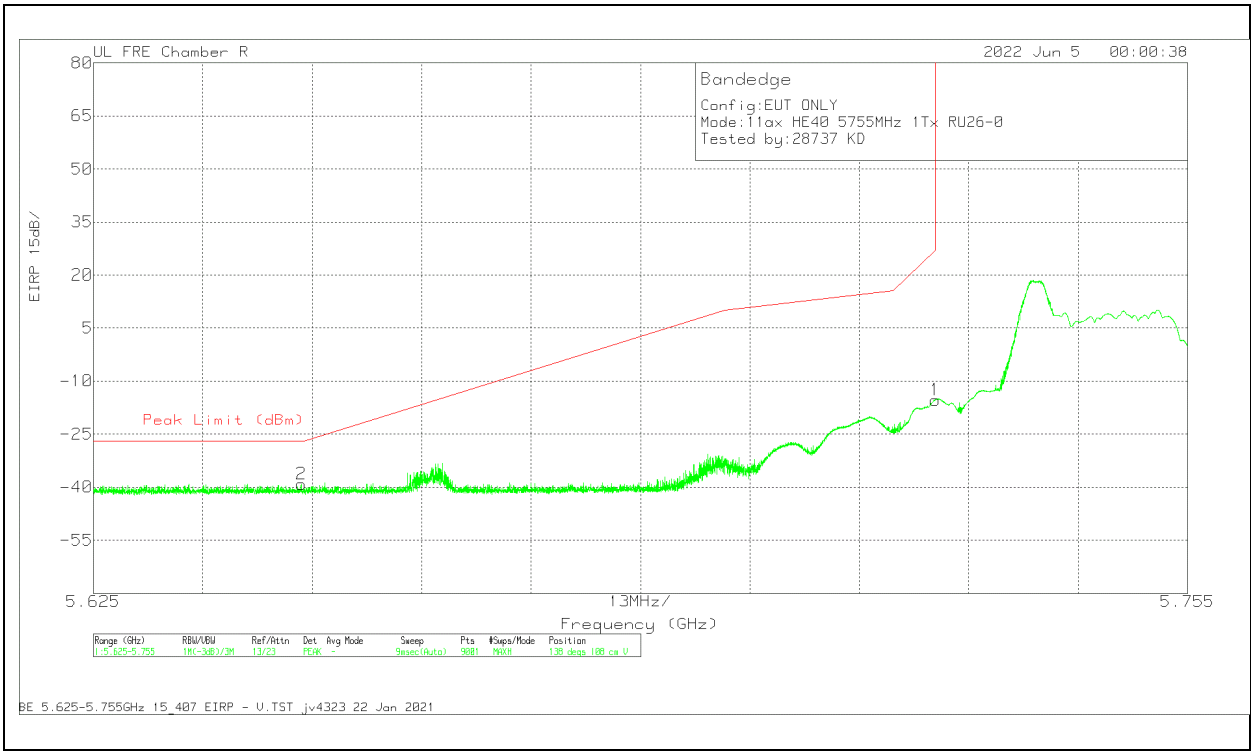


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	200785 ACF (dB)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-28.82	Pk	34.8	-31	11.8	0	-13.22	27	-40.22	69	175	H
2	5.629492	-53.54	Pk	34.7	-31.5	11.8	0	-38.54	-27	-11.54	69	175	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	200785 ACF (dB)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-30.94	Pk	34.8	-31	11.8	-15.34	27	-42.34	138	108	V
2	5.649685	-54.16	Pk	34.7	-31.4	11.8	-39.06	-27	-12.06	138	108	V

Pk - Peak detector

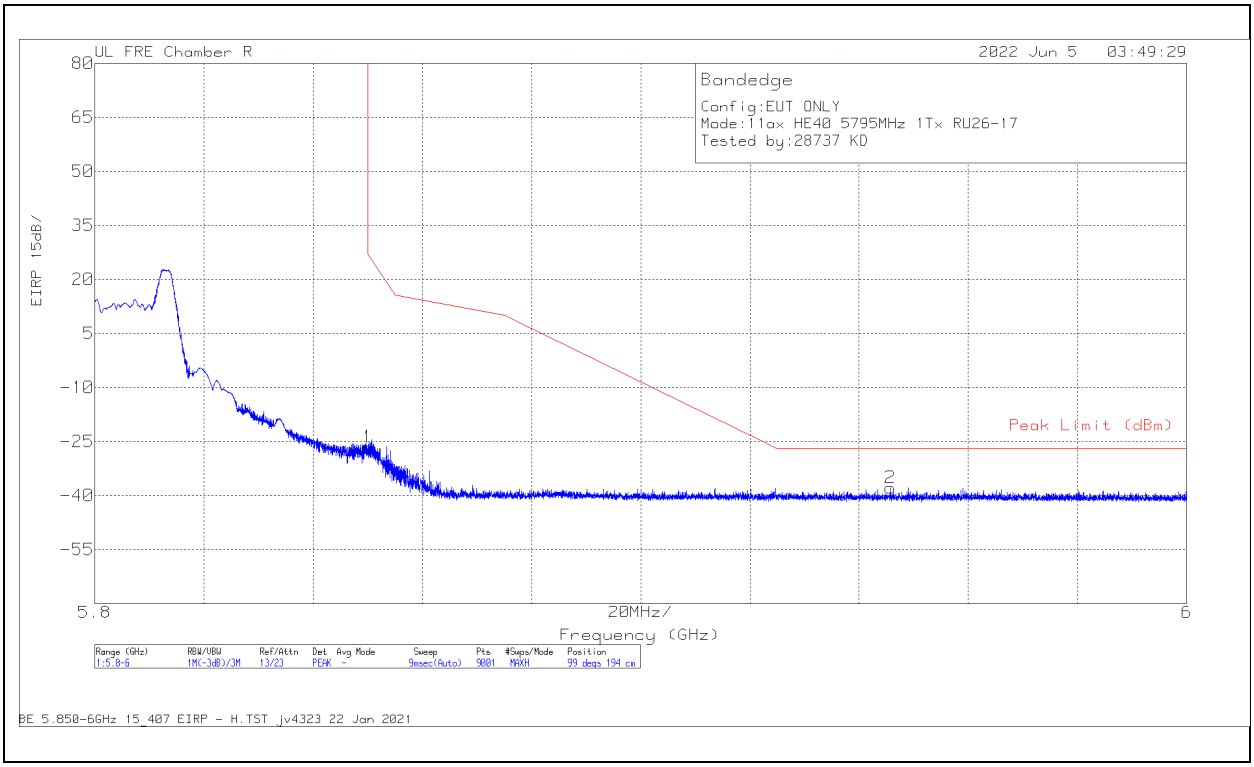
UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL LLC

1TX Antenna 5 MODE: 26-Tones, RU Index 17

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

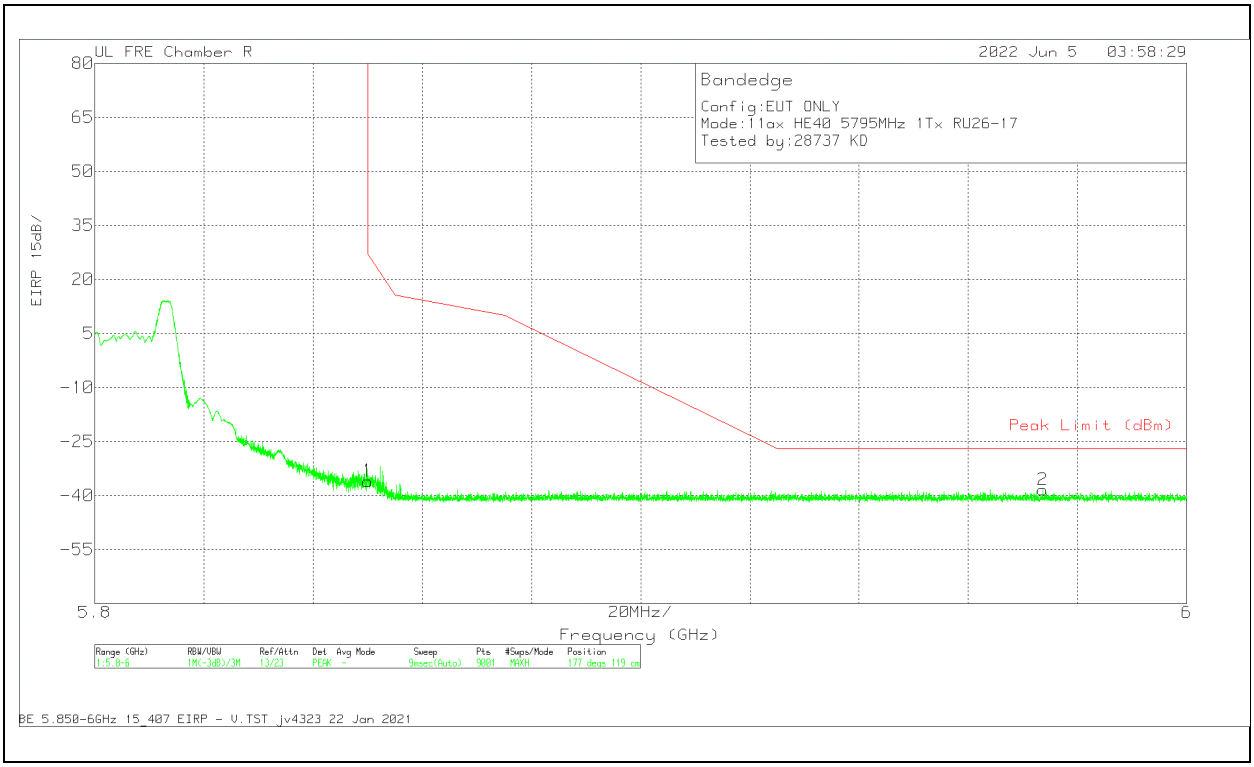


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	200785 ACF (dB)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-42.54	Pk	35	-30.9	11.8	-26.64	27	-53.64	99	194	H
2	5.945732	-53.97	Pk	35.3	-31	11.8	-37.87	-27	-10.87	99	194	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	200785 ACF (dB)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-51.91	Pk	35	-30.9	11.8	0	-36.01	27	-63.01	177	119	V
2	5.973687	-54.62	Pk	35.3	-30.9	11.8	0	-38.42	-27	-11.42	177	119	V

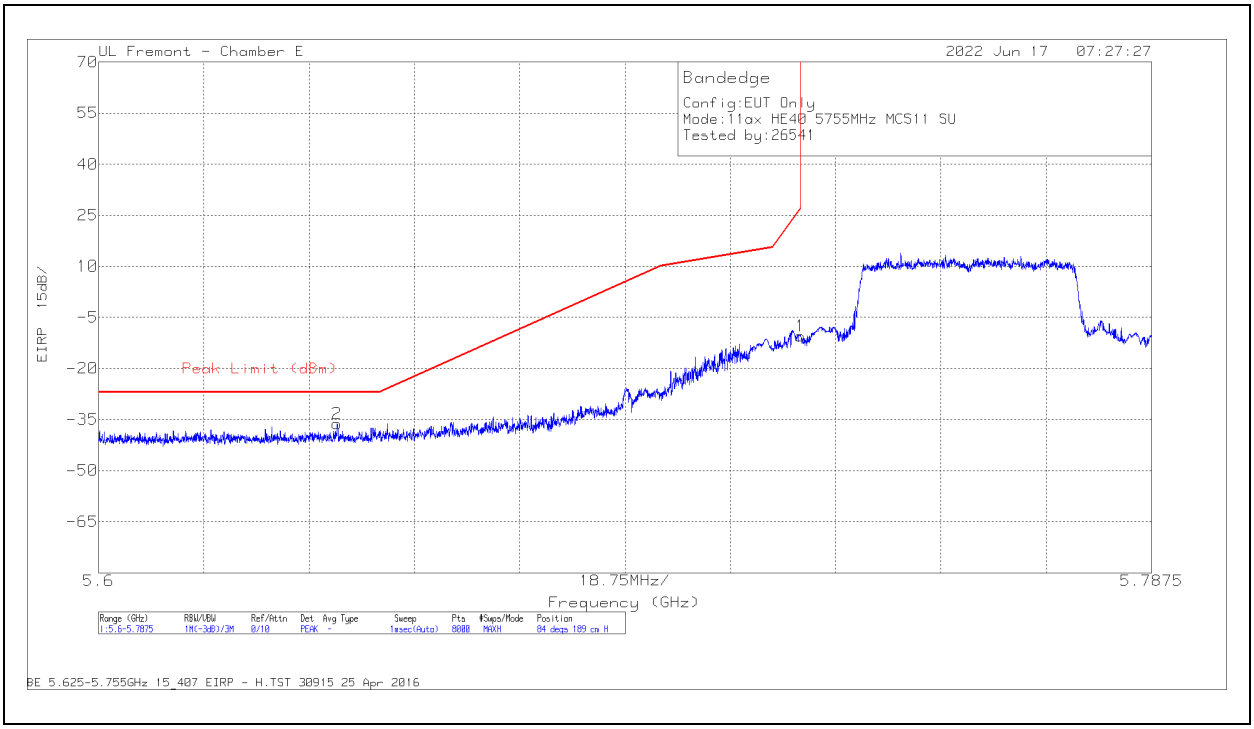
Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

1TX Antenna 5 MODE: SU, Single User

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

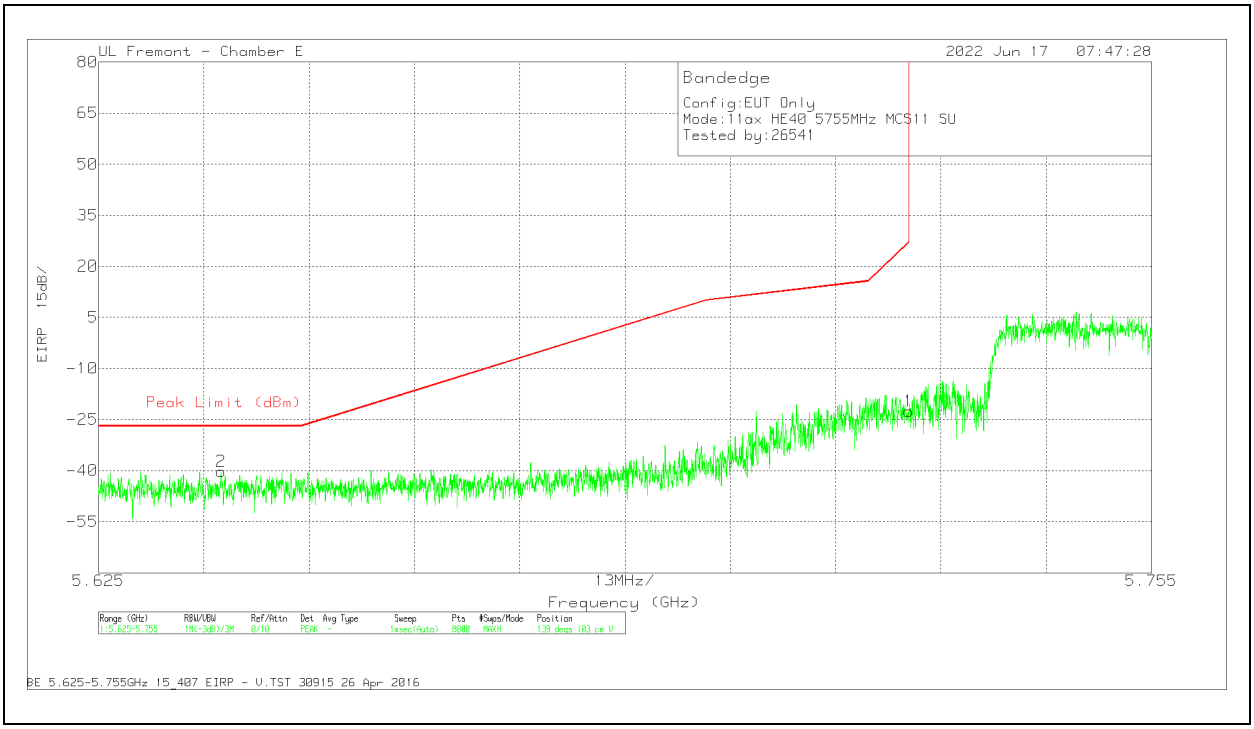


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	200897 ACF (dB/m)	Amp/Cbl/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-36.71	Pk	34.7	-20.3	11.8	0	-10.51	27	-37.51	84	189	H
2	5.642473	-62.02	Pk	34.6	-20.7	11.8	0	-36.32	-27	-9.32	84	189	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



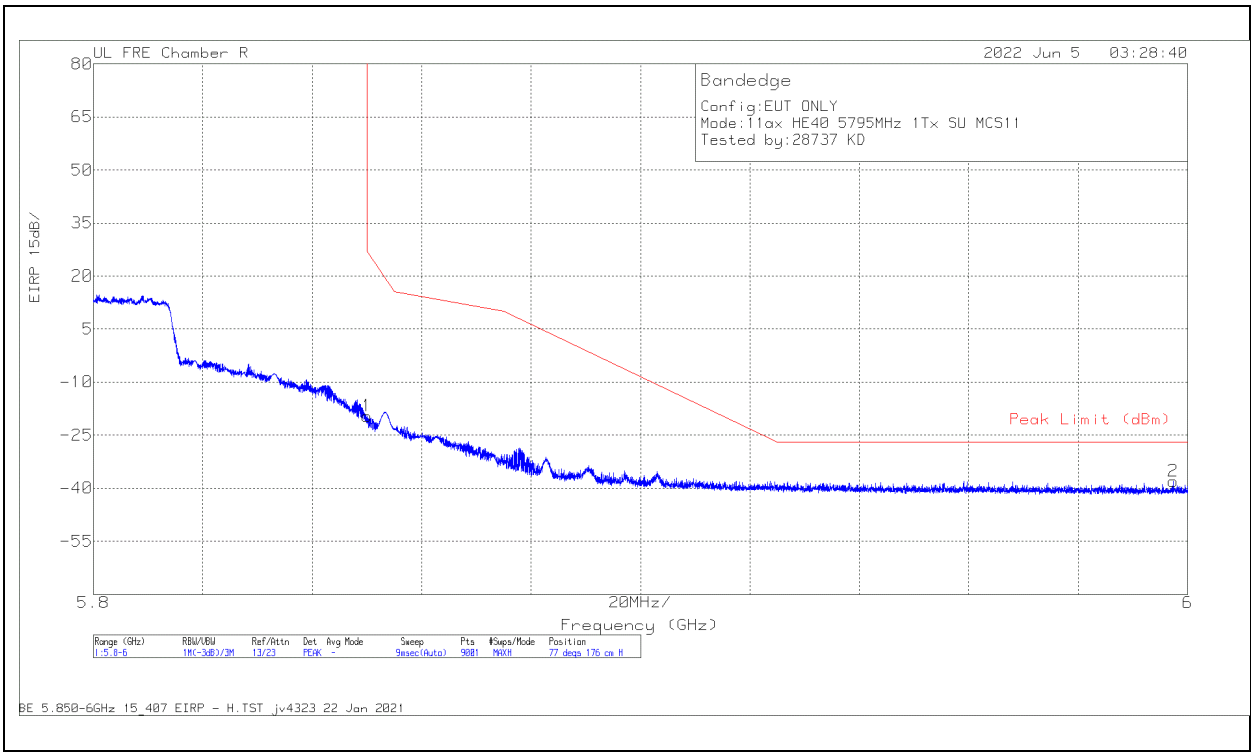
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	200897 ACF (dB/m)	Amp/Cbl/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-48.71	Pk	34.7	-20.3	11.8	0	-22.51	27	-49.51	139	103	V
2	5.640114	-65.9	Pk	34.6	-20.7	11.8	0	-40.2	-27	-13.2	139	103	V

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

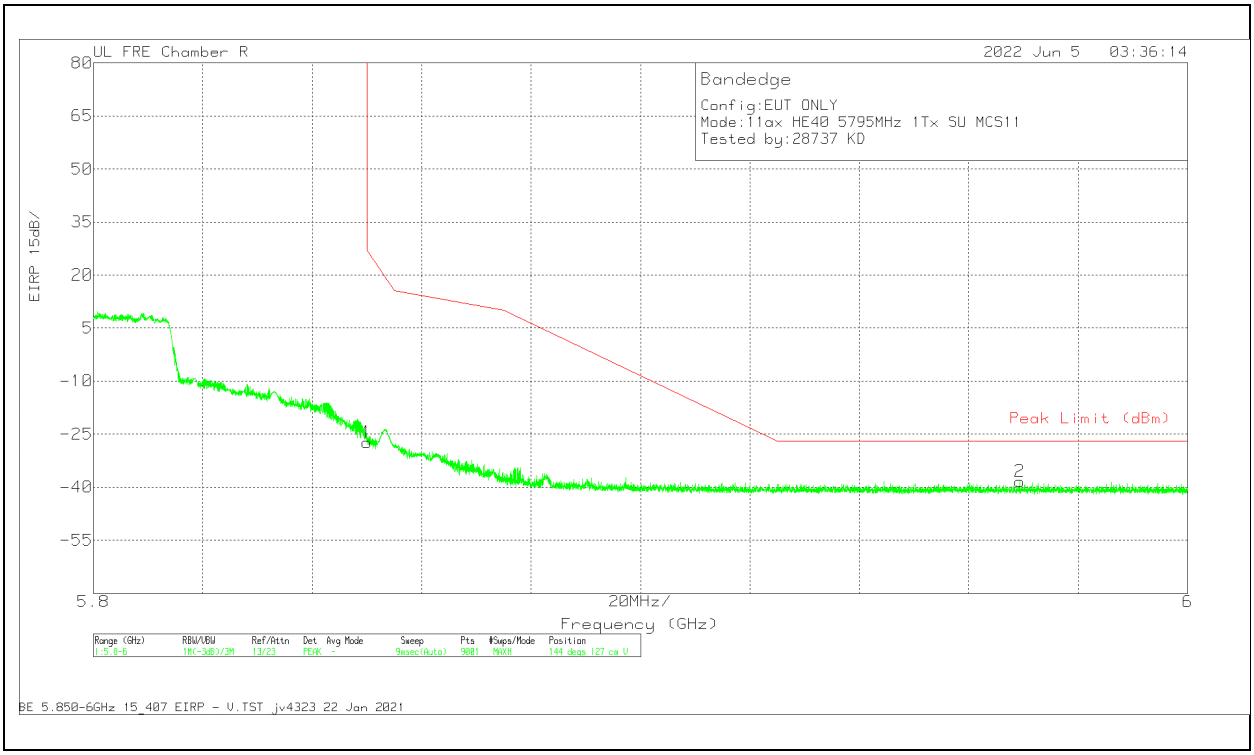


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	200785 ACF (dB)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-35.47	Pk	35	-30.9	11.8	-19.57	27	-46.57	77	176	H
2	5.997354	-54.21	Pk	35.2	-30.9	11.8	-38.11	-27	-11.11	77	176	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	200785 ACF (dB)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-43.18	Pk	35	-30.9	11.8	0	-27.28	27	-54.28	144	127	V
2	5.969332	-54.63	Pk	35.3	-30.9	11.8	0	-38.43	-27	-11.43	144	127	V

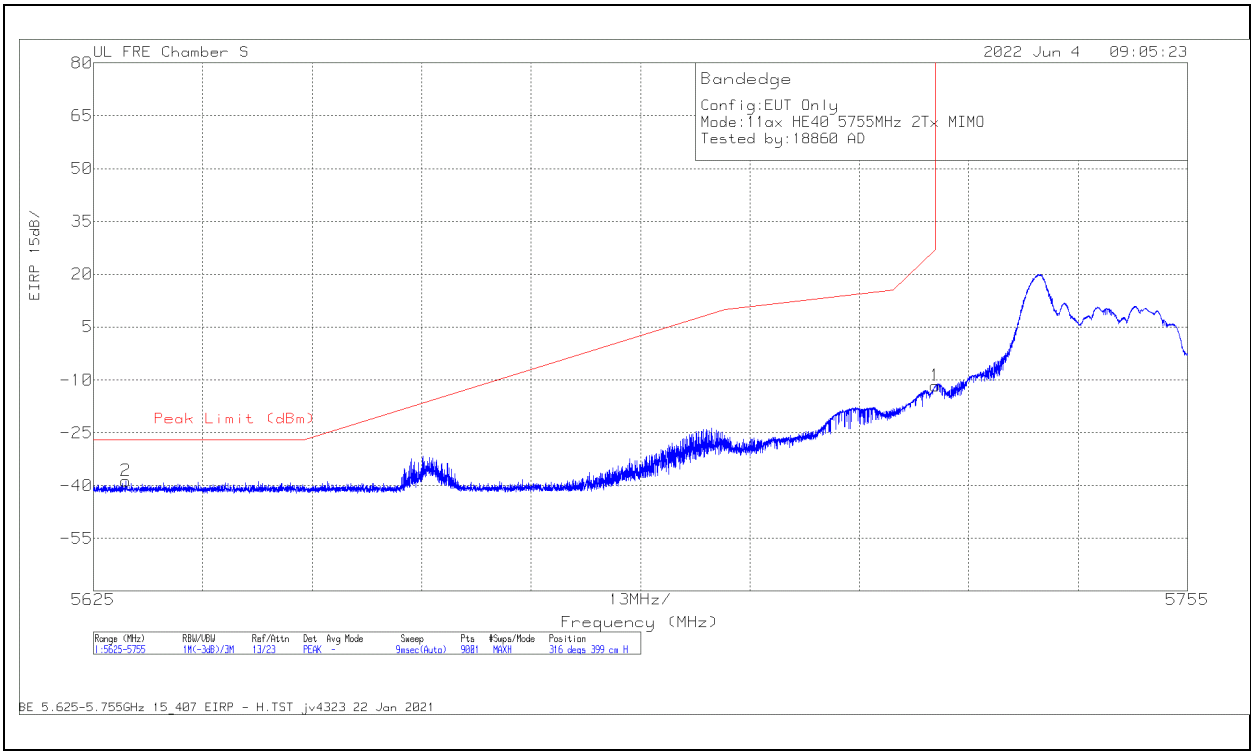
Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tones, RU Index 0

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

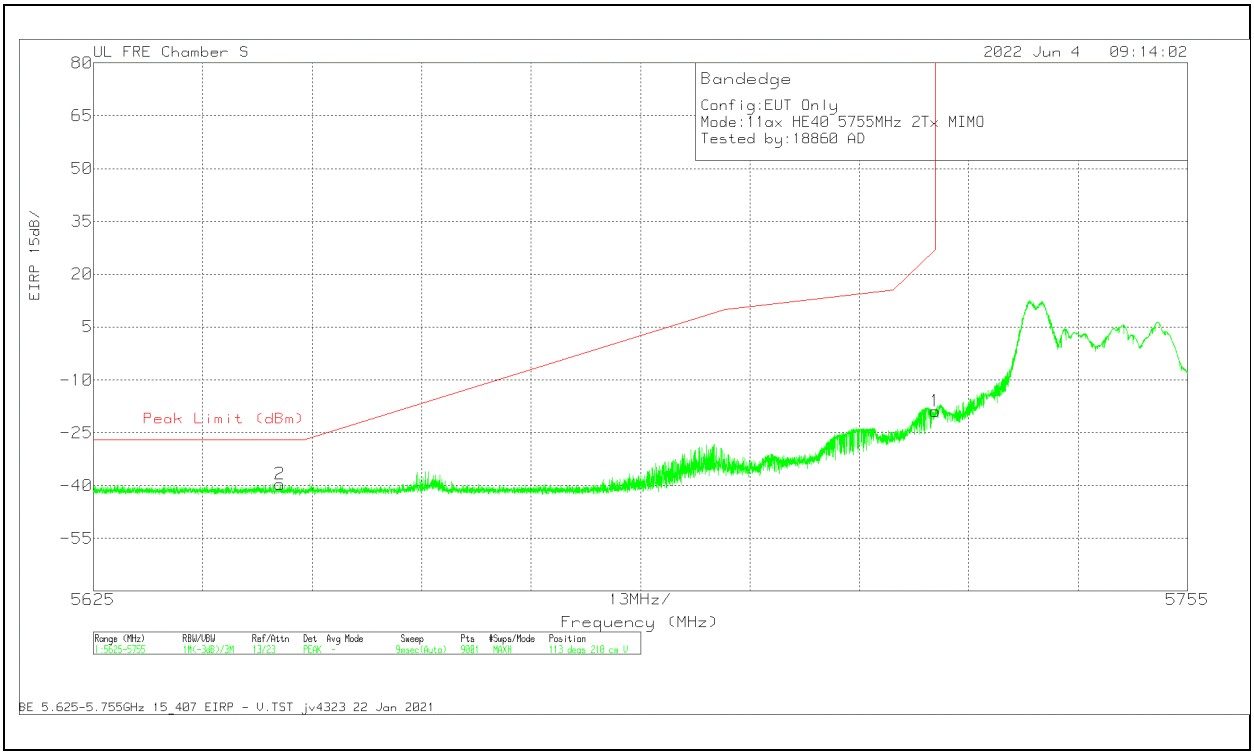


Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	-28.01	Pk	34.7	-30.2	11.8	0	-11.71	27	-38.71	316	399	H
2	5628.857	-54.78	Pk	34.7	-30.4	11.8	0	-38.68	-27	-11.68	316	399	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



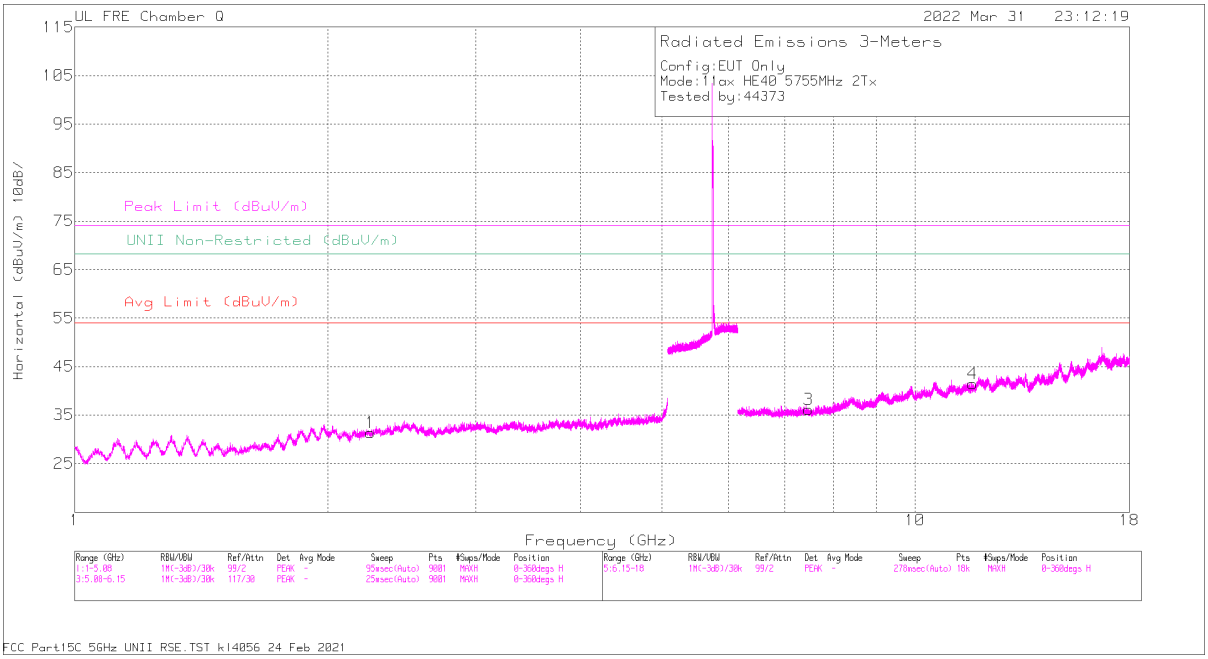
Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	-35.25	Pk	34.7	-30.2	11.8	0	-18.95	27	-45.95	113	210	V
2	5647.143	-55.84	Pk	34.7	-30.2	11.8	0	-39.54	-27	-12.54	113	210	V

Pk - Peak detector

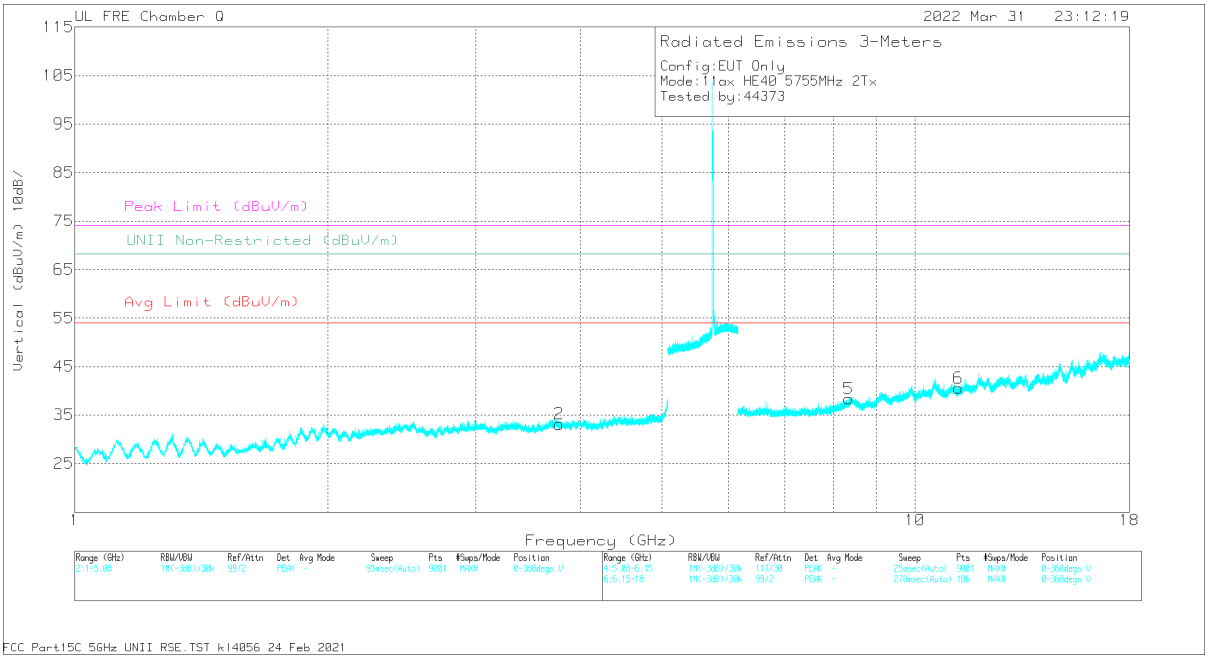
UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

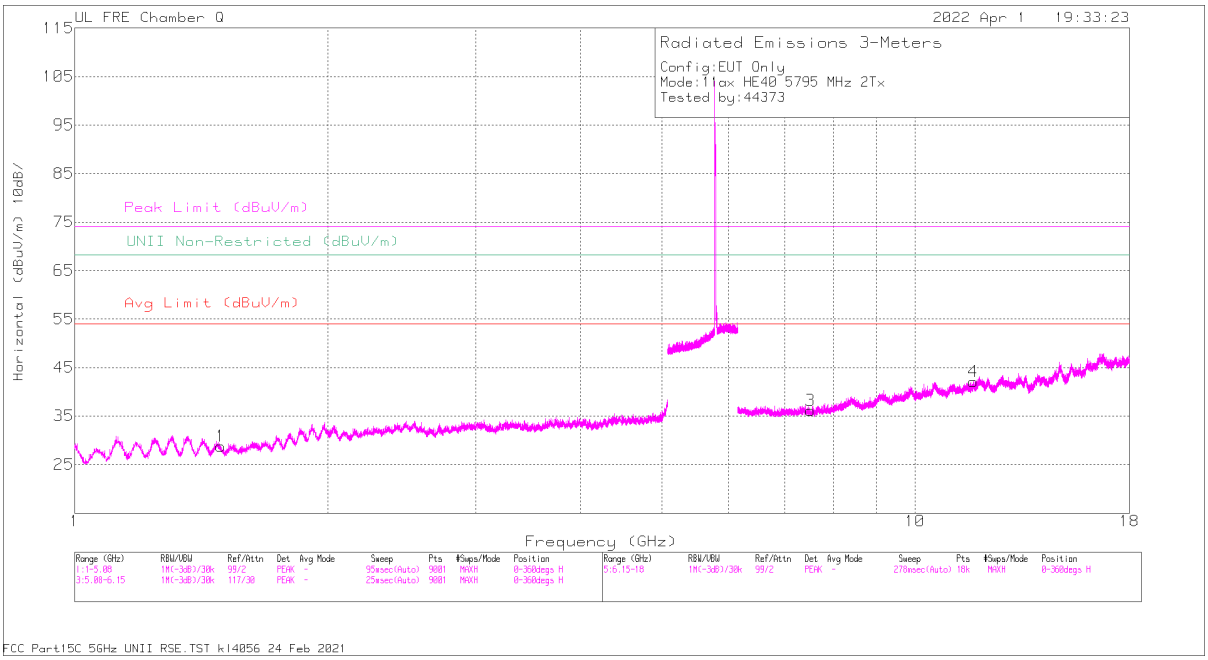
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 200895 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.248705	54.68	PK-U	31.6	-44.2	42.08	-	-	74	-31.92	196	182	H
	* 2.249563	42.92	ADR	31.6	-44.3	30.22	54	-23.78	-	-	196	182	H
2	* 3.773287	51.05	PK-U	33.5	-40.9	43.65	-	-	74	-30.35	337	171	V
	* 3.772752	39.22	ADR	33.5	-40.9	31.82	54	-22.18	-	-	337	171	V
3	* 7.468288	47.97	PK-U	35.7	-37.4	46.27	-	-	74	-27.73	144	128	H
	* 7.470564	36.22	ADR	35.7	-37.5	34.42	54	-19.58	-	-	144	128	H
4	* 11.721625	47.22	PK-U	38.5	-33.8	51.92	-	-	74	-22.08	340	119	H
	* 11.722995	35.38	ADR	38.6	-33.8	40.18	54	-13.82	-	-	340	119	H
5	* 8.335761	47.86	PK-U	36	-36.3	47.56	-	-	74	-26.44	99	131	V
	* 8.334385	36.67	ADR	36	-36.3	36.37	54	-17.63	-	-	99	131	V
6	* 11.267061	46.78	PK-U	38.1	-33.6	51.28	-	-	74	-22.72	345	239	V
	* 11.269063	34.89	ADR	38	-33.6	39.29	54	-14.71	-	-	345	239	V

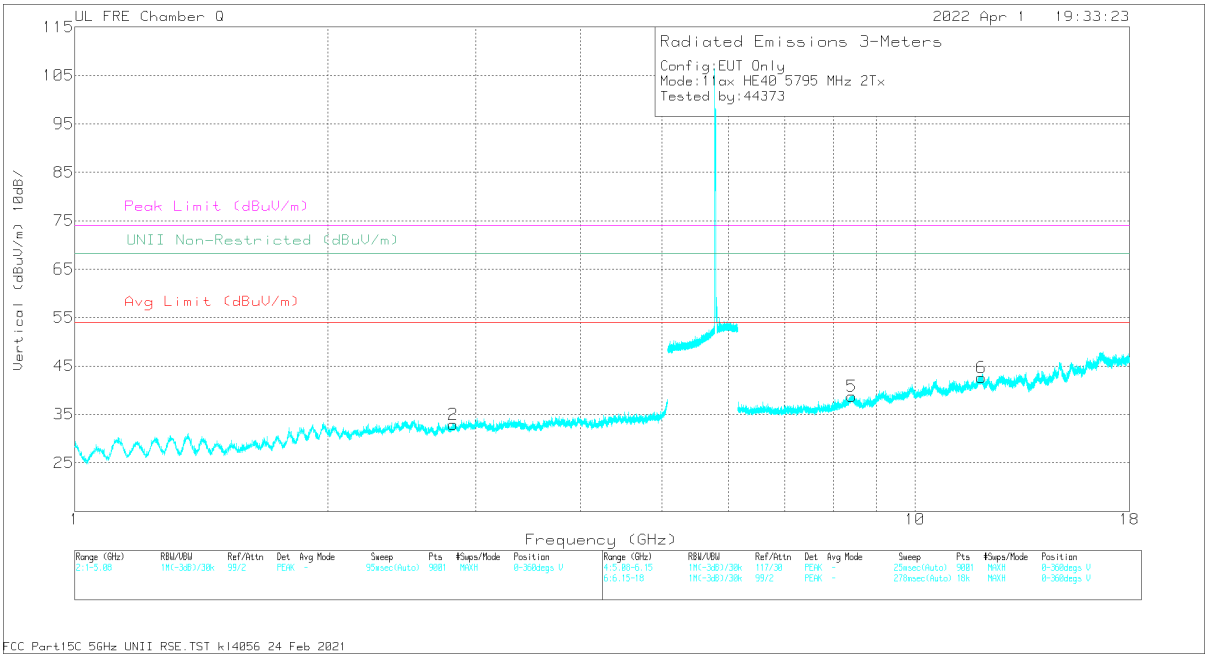
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 200895 (dB/m)	Amp/Cbl /Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.492903	55.94	PK-U	27.6	-44.7	38.84	-	-	74	-35.16	74	136	H
	* 1.490351	44.38	ADR	27.7	-44.8	27.28	54	-26.72	-	-	74	136	H
2	* 2.824451	54.12	PK-U	32.2	-43.5	42.82	-	-	74	-31.18	173	248	V
	* 2.820854	42.75	ADR	32.2	-43.5	31.45	54	-22.55	-	-	173	248	V
3	* 7.513856	48.31	PK-U	35.8	-37.7	46.41	-	-	74	-27.59	276	250	H
	* 7.515073	36.48	ADR	35.8	-37.7	34.58	54	-19.42	-	-	276	250	H
4	* 11.743232	47.72	PK-U	38.6	-33.9	52.42	-	-	74	-21.58	25	161	H
	* 11.743415	35.72	ADR	38.6	-33.9	40.42	54	-13.58	-	-	25	161	H
5	* 8.406525	48.84	PK-U	35.9	-36	48.74	-	-	74	-25.26	68	205	V
	* 8.405998	37.36	ADR	35.9	-36	37.26	54	-16.74	-	-	68	205	V
6	* 11.992553	47.79	PK-U	38.9	-35.2	51.49	-	-	74	-22.51	8	231	V
	* 11.991665	36.32	ADR	38.9	-35.1	40.12	54	-13.88	-	-	8	231	V

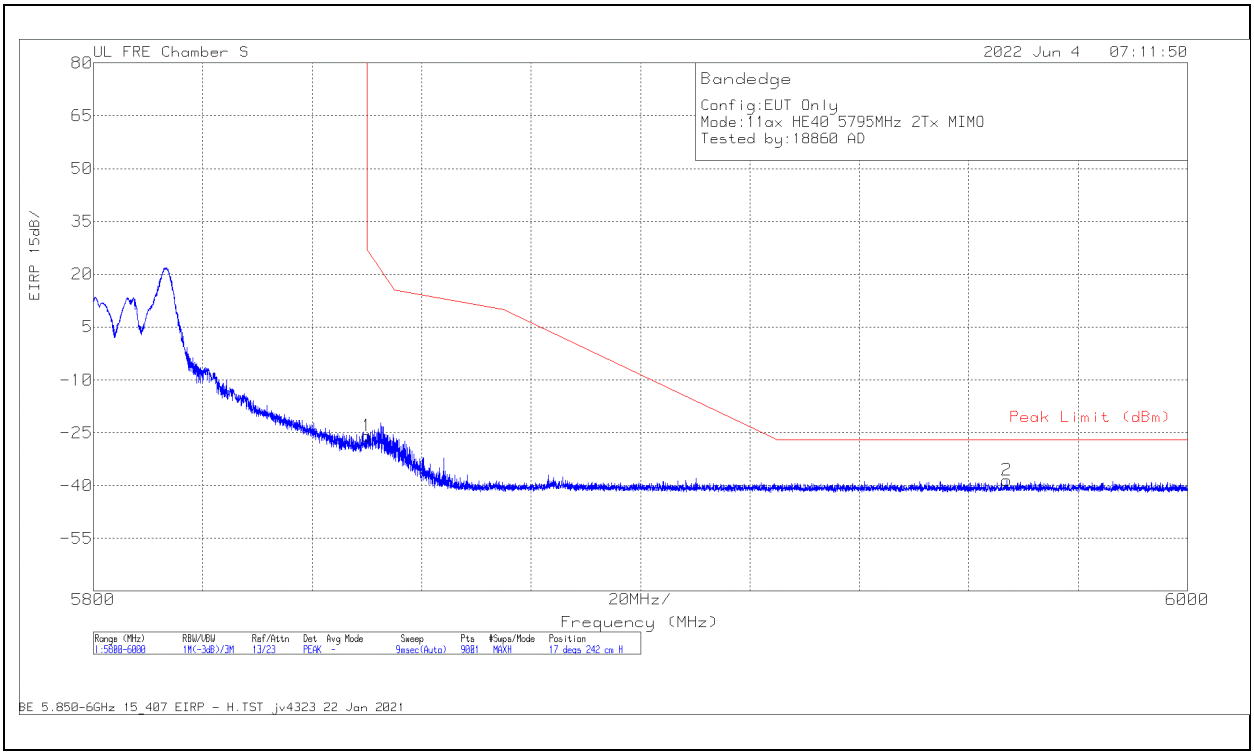
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tones, RU Index 17

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

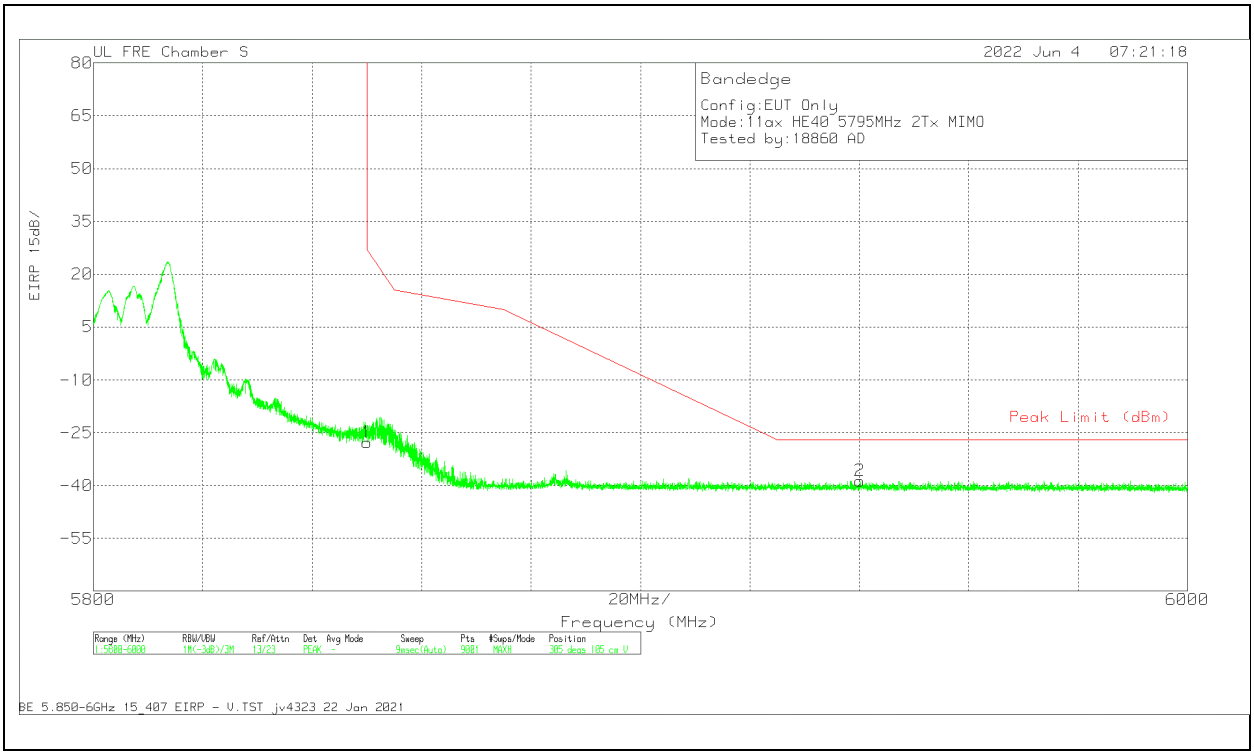


Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5850	-42.68	Pk	35	-30	11.8	0	-25.88	27	-52.88	17	242	H
2	5966.998	-55.65	Pk	35.1	-29.7	11.8	0	-38.45	-27	-11.45	17	242	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5850	-44.53	Pk	35	-30	11.8	0	-27.73	27	-54.73	305	105	V
2	5940.132	-55.68	Pk	35.1	-29.8	11.8	0	-38.58	-27	-11.58	305	105	V

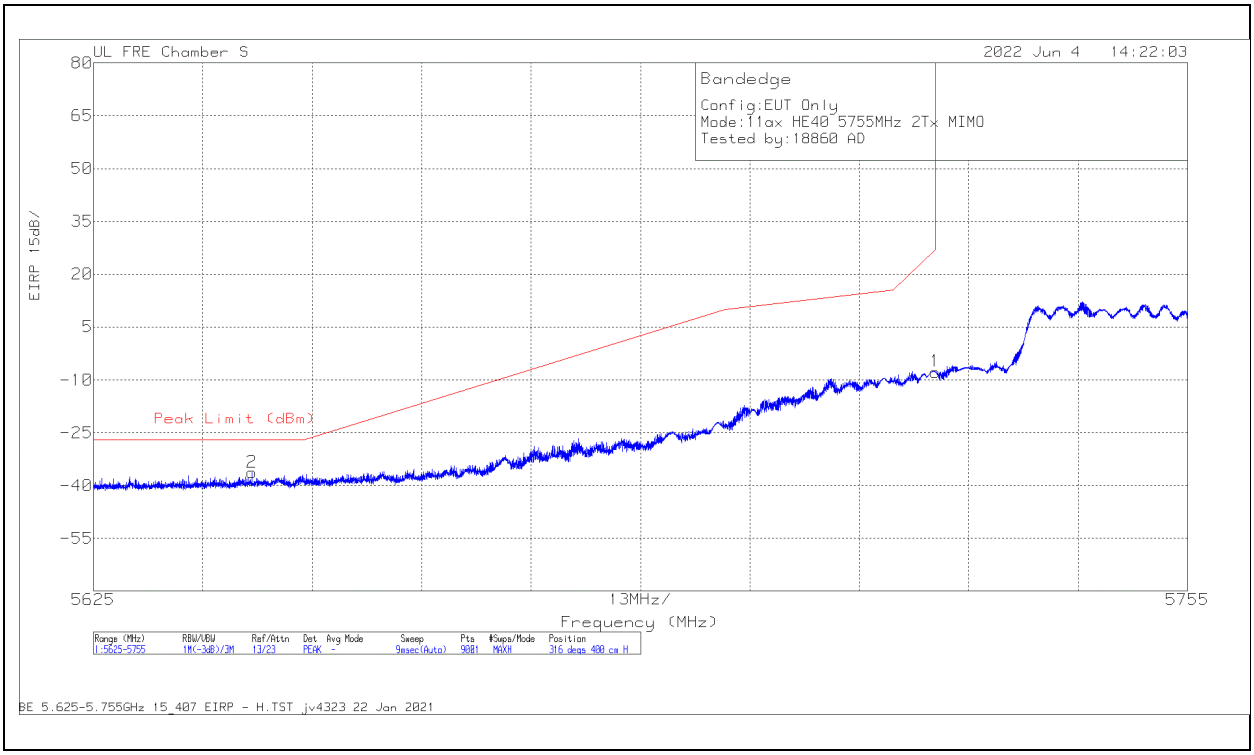
Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

2TX Antenna 6 + Antenna 5 OFDMA MODE: SU, Single User

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

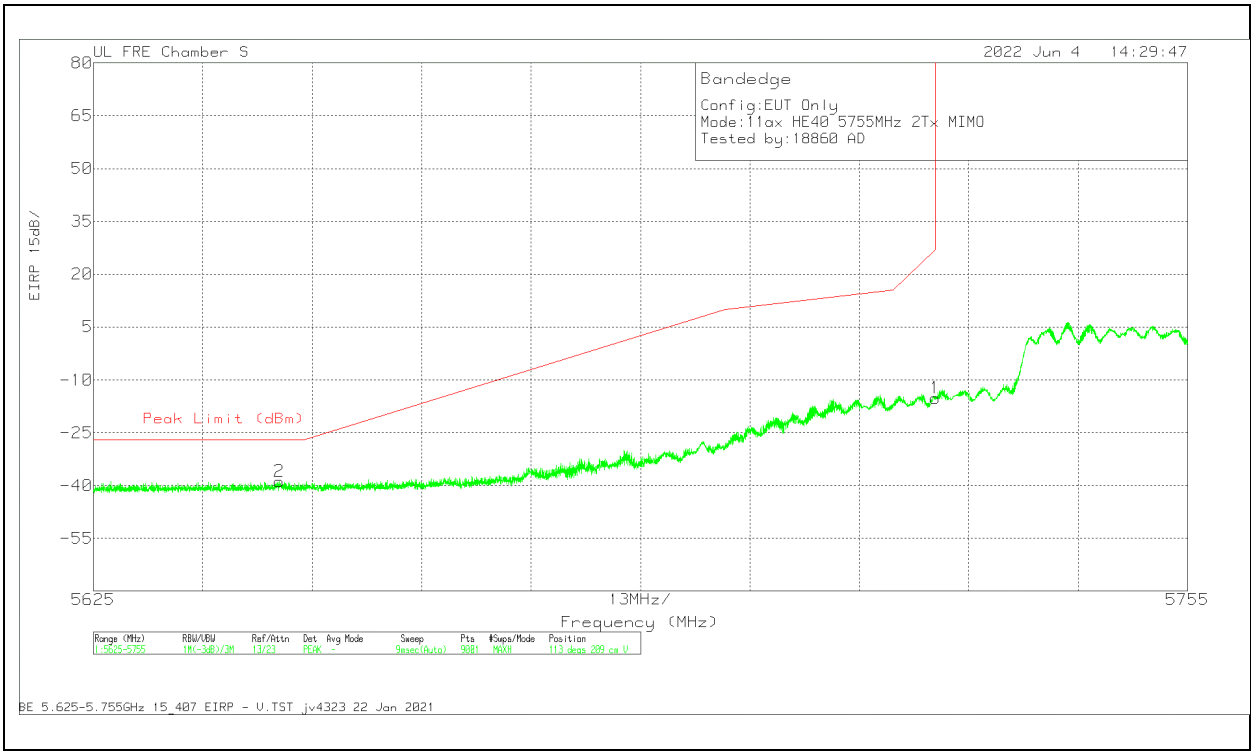


Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	-23.99	Pk	34.7	-30.2	11.8	0	-7.69	27	-34.69	316	400	H
2	5643.821	-52.46	Pk	34.7	-30.3	11.8	0	-36.26	-27	-9.26	316	400	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



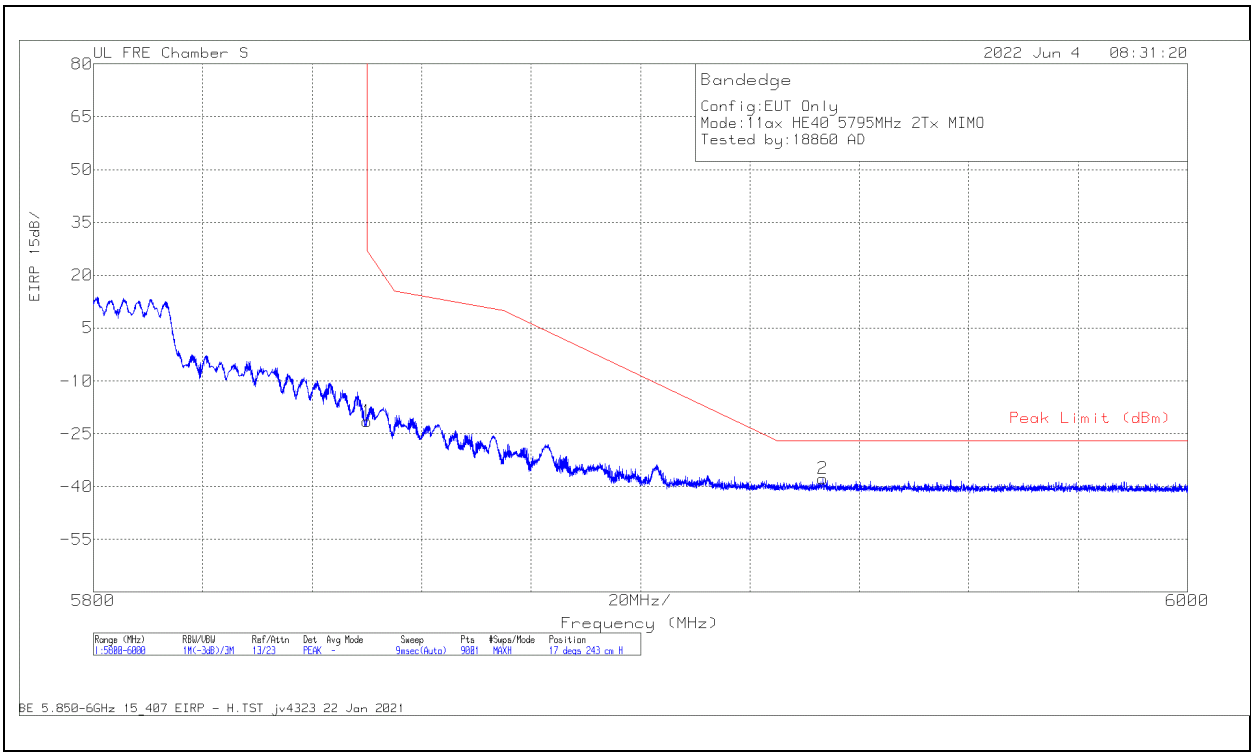
Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	-31.54	Pk	34.7	-30.2	11.8	0	-15.24	27	-42.24	113	209	V
2	5647.114	-55.08	Pk	34.7	-30.2	11.8	0	-38.78	-27	-11.78	113	209	V

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

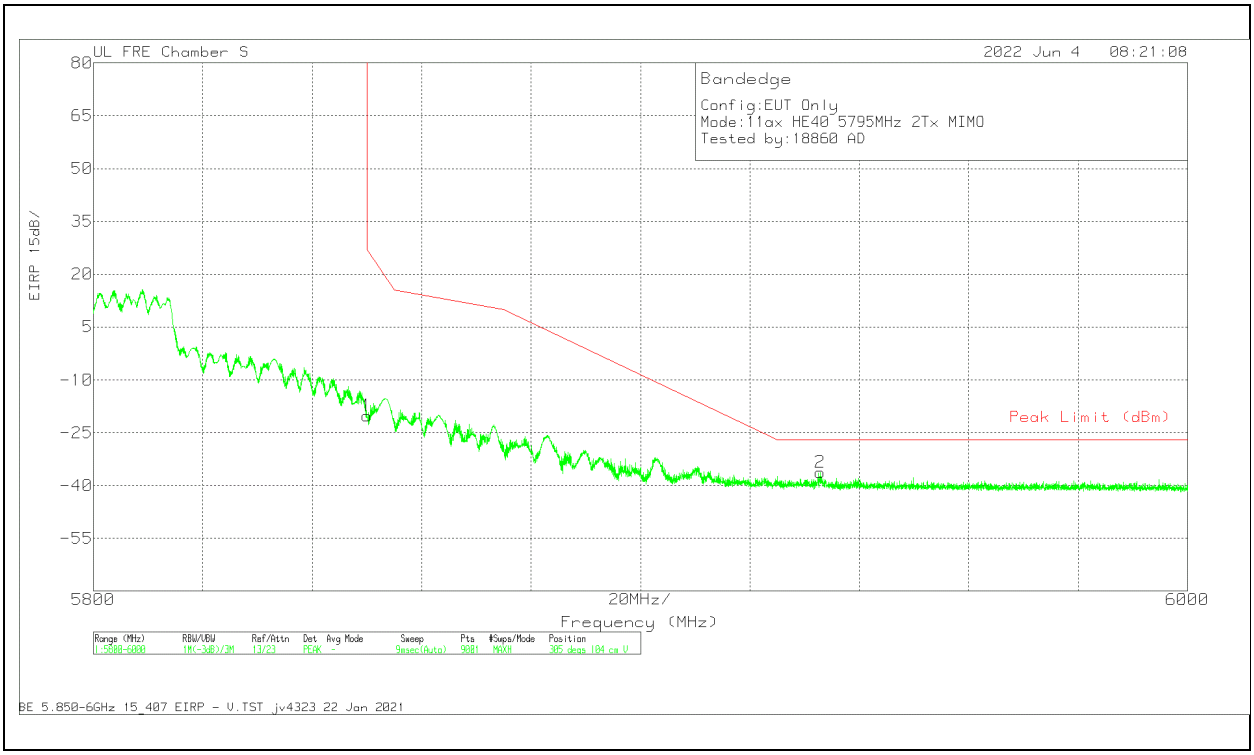


Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5850	-38.33	Pk	35	-30	11.8	0	-21.53	27	-48.53	17	243	H
2	5933.376	-54.72	Pk	35.1	-29.9	11.8	0	-37.72	-27	-10.72	17	243	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



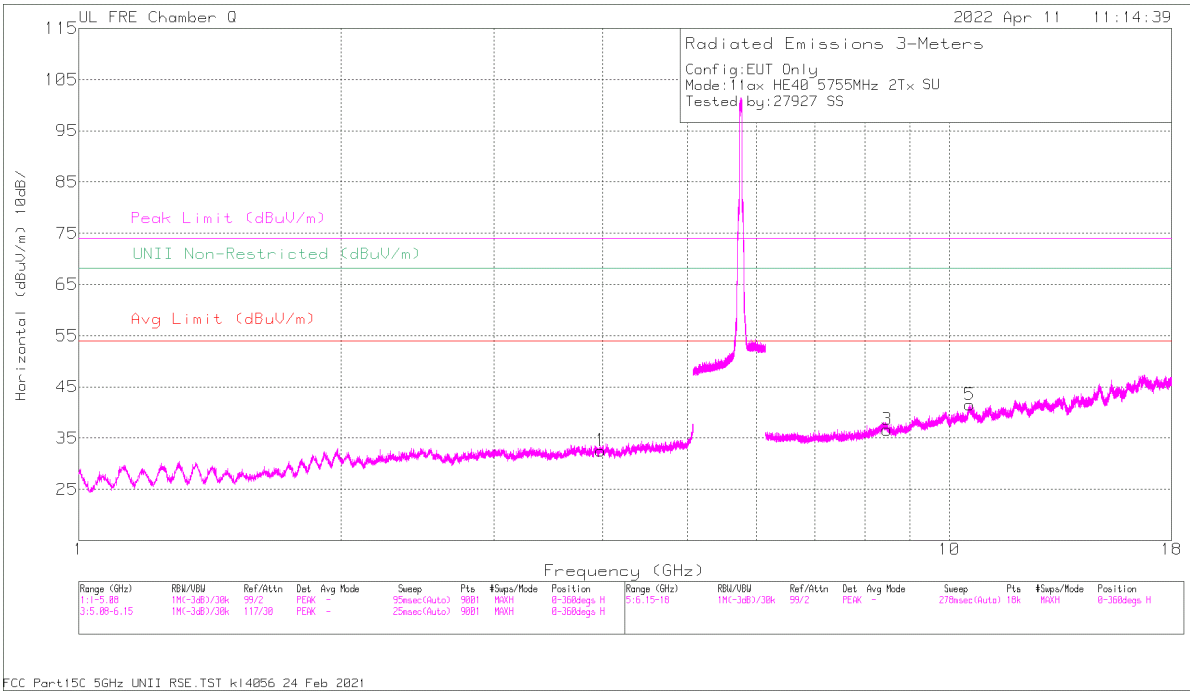
Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5850	-36.94	Pk	35	-30	11.8	0	-20.14	27	-47.14	305	104	V
2	5932.799	-53.34	Pk	35.1	-29.9	11.8	0	-36.34	-27	-9.34	305	104	V

Pk - Peak detector

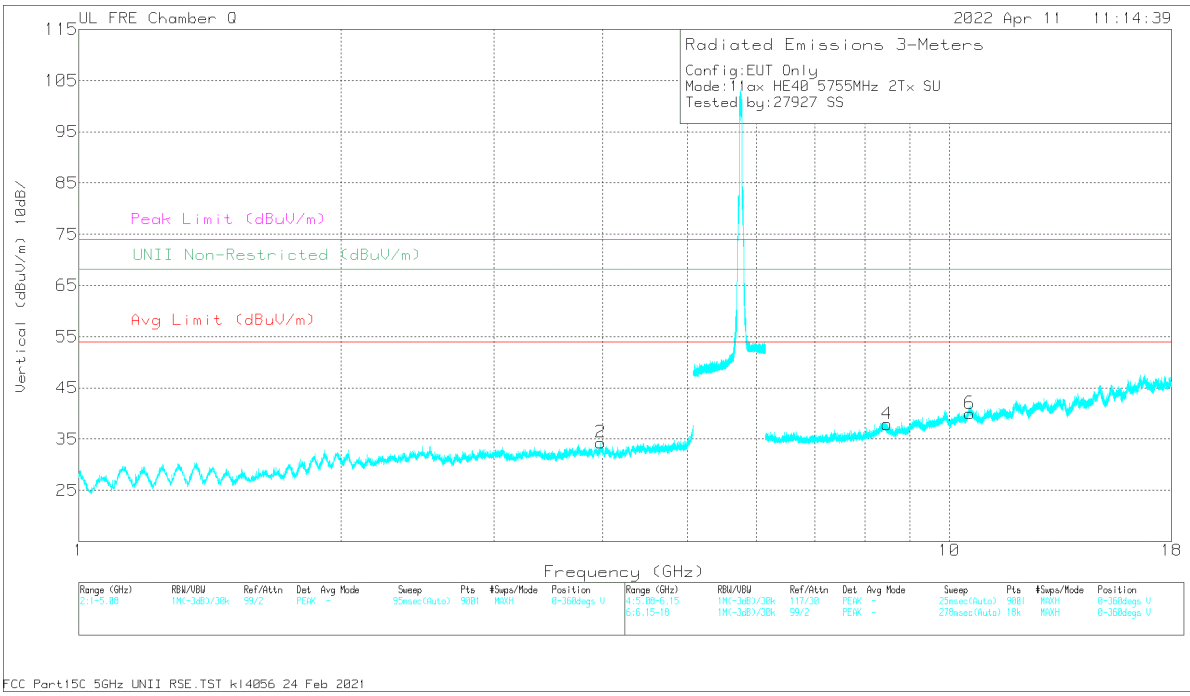
UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

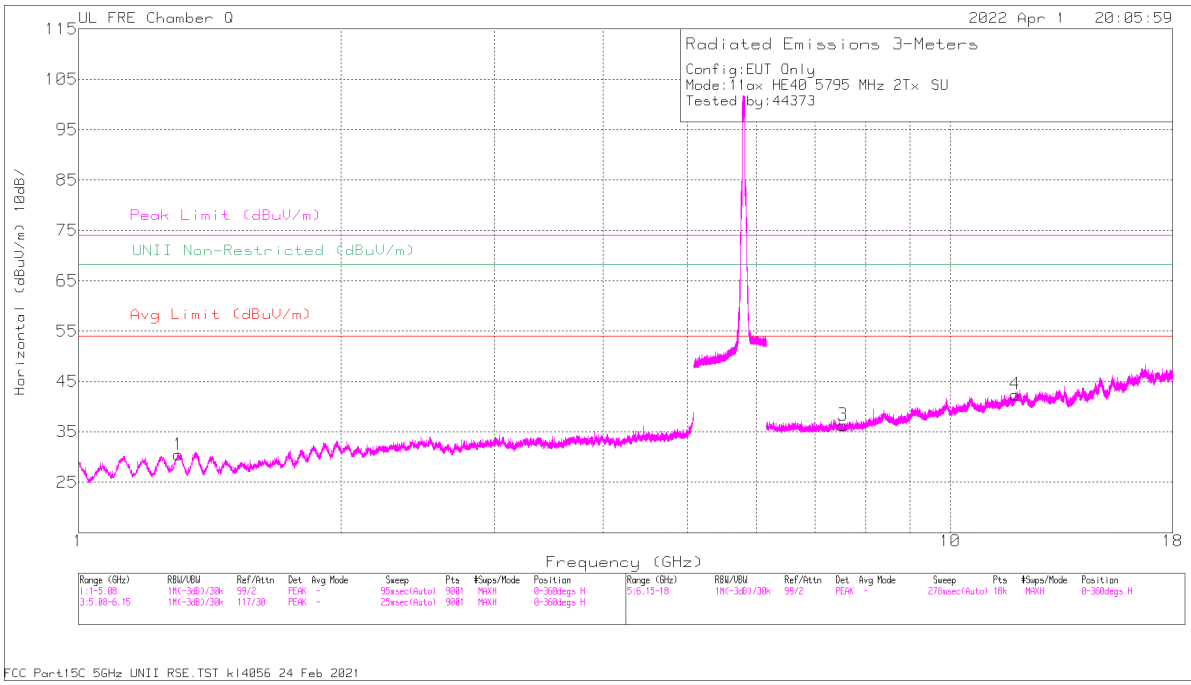
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 200895 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.973375	51.16	PK-U	33.4	-40.8	0	43.76	-	-	74	-30.24	-	-	29	170	H
	3.972991	39.01	ADR	33.4	-40.8	.13	31.74	54	-22.26	-	-	-	-	29	170	H
2	3.974146	50.5	PK-U	33.4	-40.8	0	43.1	-	-	74	-30.9	-	-	309	161	V
	3.974693	38.63	ADR	33.4	-40.8	.13	31.36	54	-22.64	-	-	-	-	309	161	V
4	8.474911	47.42	PK-U	35.9	-35.8	0	47.52	-	-	74	-26.48	-	-	356	350	V
	8.47816	36.06	ADR	35.9	-35.9	.13	36.19	54	-17.81	-	-	-	-	356	350	V
3	8.478408	46.96	PK-U	35.9	-35.9	0	46.96	-	-	74	-27.04	-	-	69	394	H
	8.477836	35.4	ADR	35.9	-35.9	.13	35.53	54	-18.47	-	-	-	-	69	394	H
5	10.547425	47.58	PK-U	37.6	-33.9	0	51.28	-	-	-	-	68.2	-16.92	8	356	H
6	10.547581	46.64	PK-U	37.6	-33.9	0	50.34	-	-	-	-	68.2	-17.86	340	149	V

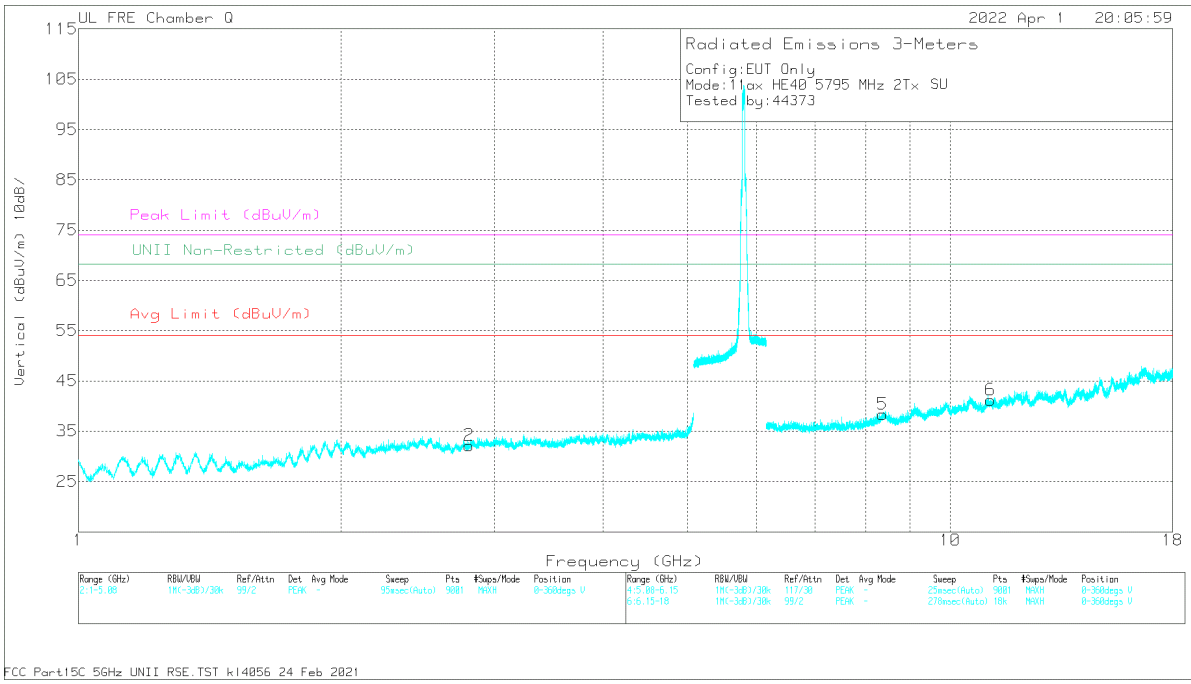
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 200895 (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	* 1.303488	57.47	PK-U	28.7	-45.1	0	41.07	-	-	74	-32.93	188	240	H
	* 1.303287	45.49	ADR	28.7	-45.1	0.13	29.22	54	-24.78	-	-	188	240	H
2	* 2.80498	53.71	PK-U	32.3	-43.5	0	42.51	-	-	74	-31.49	261	168	V
	* 2.802735	42.15	ADR	32.2	-43.5	0.13	30.98	54	-23.02	-	-	261	168	V
3	* 7.540698	48.22	PK-U	35.8	-37.8	0	46.22	-	-	74	-27.78	3	197	H
	* 7.539836	36.6	ADR	35.8	-37.8	0.13	34.73	54	-19.27	-	-	3	197	H
4	* 11.87415	48.28	PK-U	38.7	-34.8	0	52.18	-	-	74	-21.82	220	230	H
	* 11.872729	36.58	ADR	38.7	-34.8	0.13	40.61	54	-13.39	-	-	220	230	H
5	* 8.371821	49.42	PK-U	36	-36.2	0	49.22	-	-	74	-24.78	342	213	V
	* 8.373519	36.86	ADR	36	-36.2	0.13	36.79	54	-17.21	-	-	342	213	V
6	* 11.129924	46.63	PK-U	38	-33.8	0	50.83	-	-	74	-23.17	57	185	V
	* 11.130112	35.08	ADR	38	-33.8	0.13	39.41	54	-14.59	-	-	57	185	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

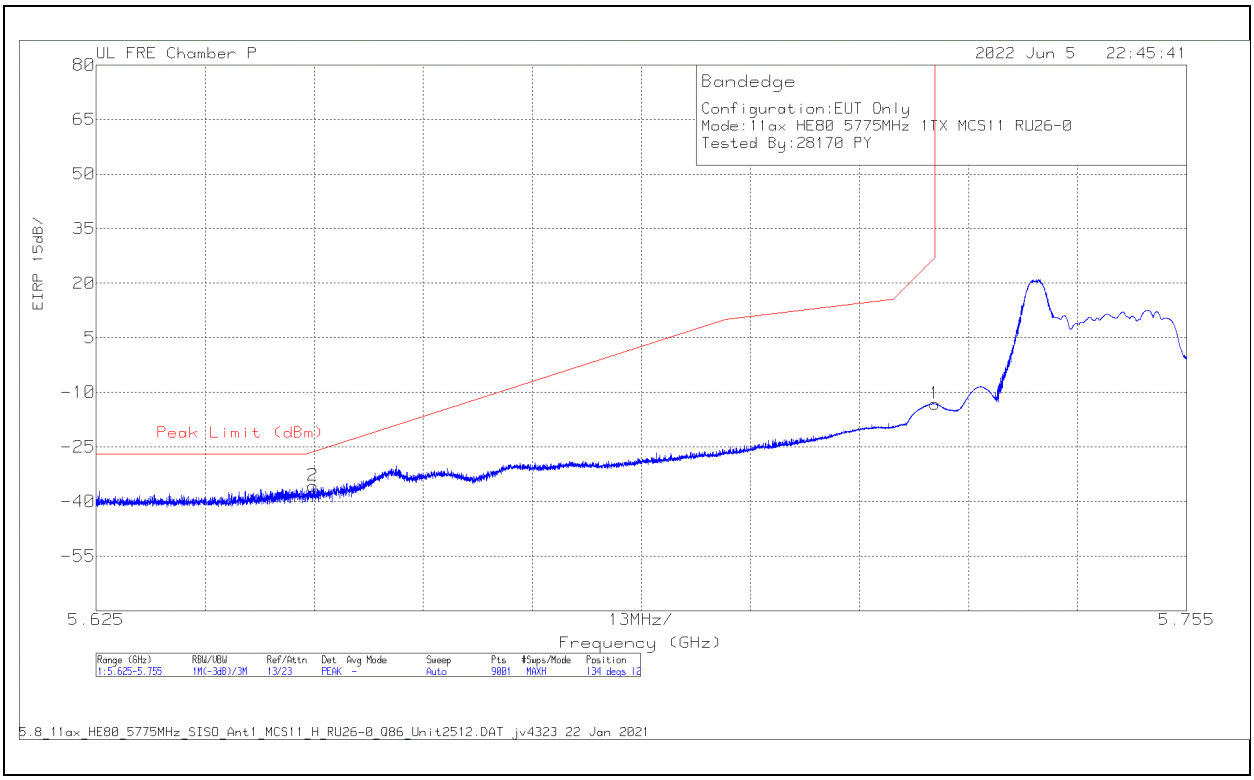
UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

1.1.24. TX ABOVE 1 GHz 802.11ax HE80 MODE IN THE 5.8GHz BAND

1TX Antenna 6 MODE: 26-Tones, RU Index 0

BANDEDGE (CHANNEL 155 LOW EDGE)

HORIZONTAL RESULT

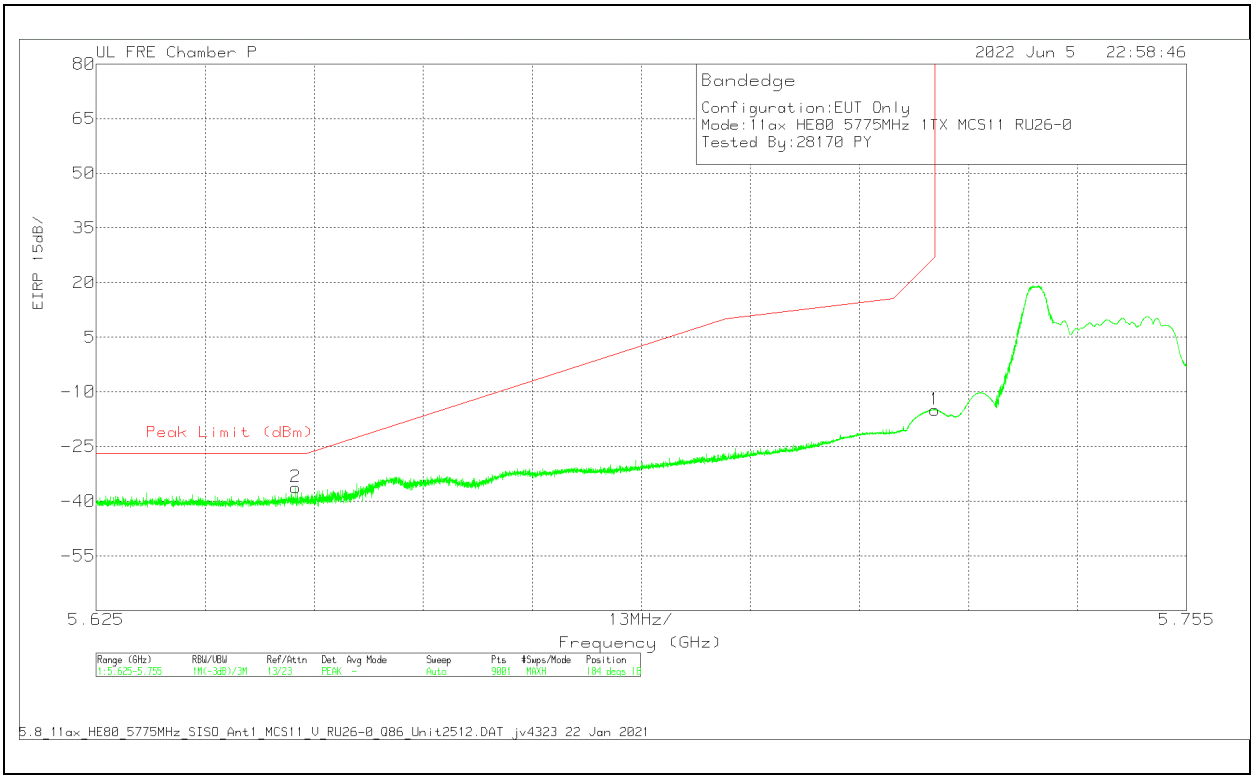


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF 41112 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-31.61	Pk	35.1	-28.4	11.8	-13.11	27	-40.11	134	120	H
2	5.650855	-53.9	Pk	35	-28.5	11.8	-35.6	-26.37	-9.23	134	120	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF 41112 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-33.37	Pk	35.1	-28.4	11.8	-14.87	27	-41.87	184	180	V
2	5.648775	-54.46	Pk	35	-28.5	11.8	-36.16	-27	-9.16	184	180	V

Pk - Peak detector

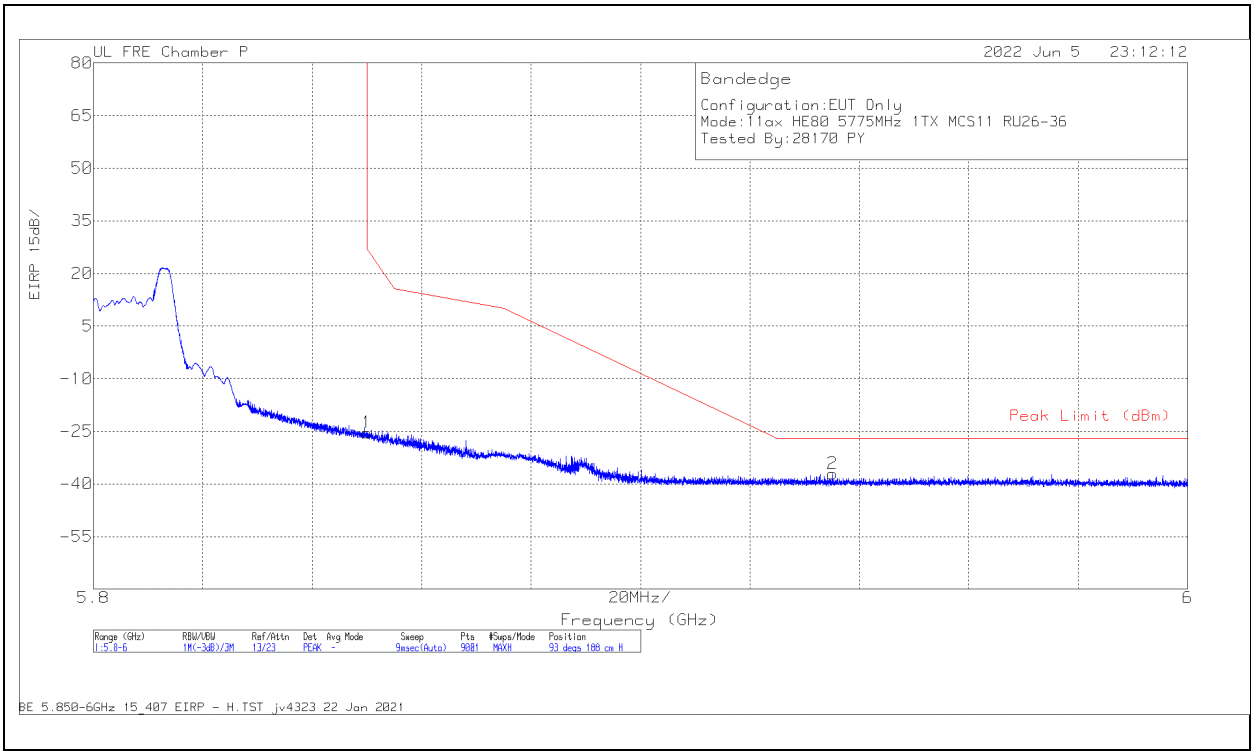
UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL LLC

1TX Antenna 6 MODE: 26-Tones, RU Index 36

BANDEDGE (CHANNEL 155 HIGH EDGE)

HORIZONTAL RESULT

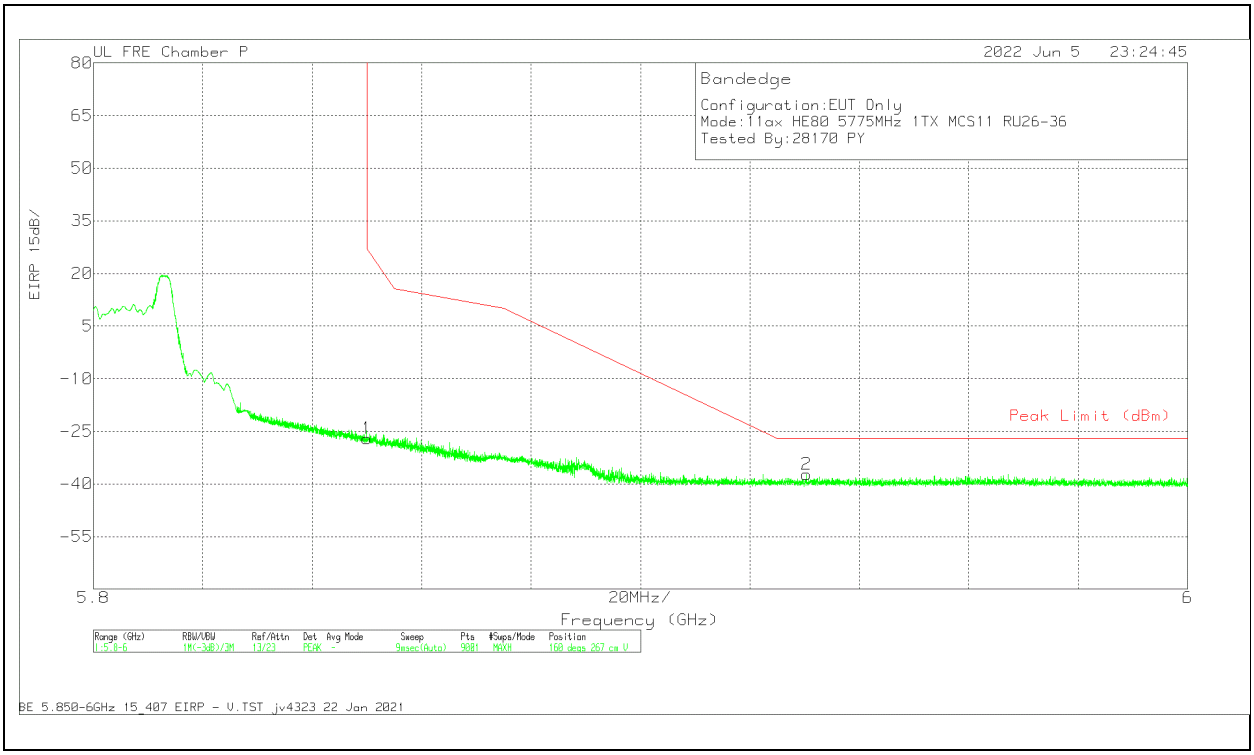


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF 41112 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-44.2	Pk	35.4	-28.3	11.8	-25.3	27	-52.3	93	188	H
2	5.93511	-56.13	Pk	35.5	-28.3	11.8	-37.13	-27	-10.13	93	188	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF 41112 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-45.88	Pk	35.4	-28.3	11.8	-26.98	27	-53.98	160	267	V
2	5.930376	-56.2	Pk	35.5	-28.3	11.8	-37.2	-27	-10.2	160	267	V

Pk - Peak detector

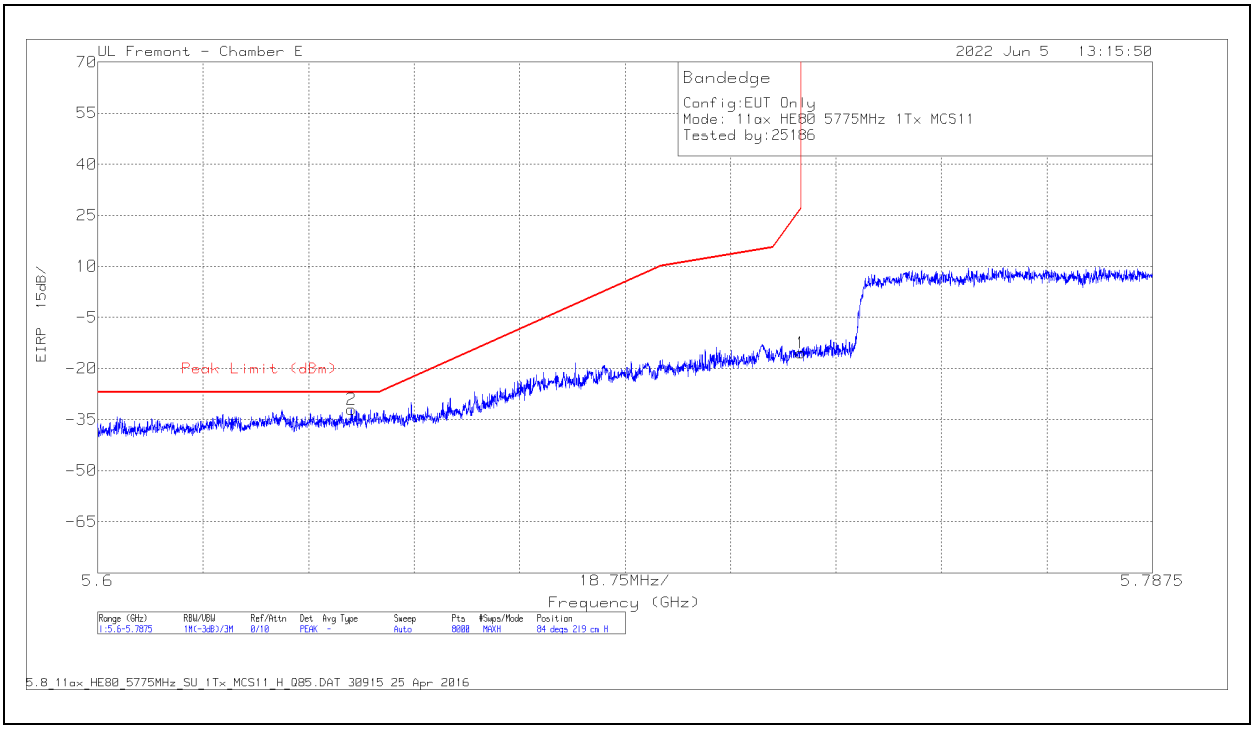
UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL LLC

1TX Antenna 6 MODE: SU, Single User

BANDEDGE (CHANNEL 155 LOW EDGE)

HORIZONTAL RESULT

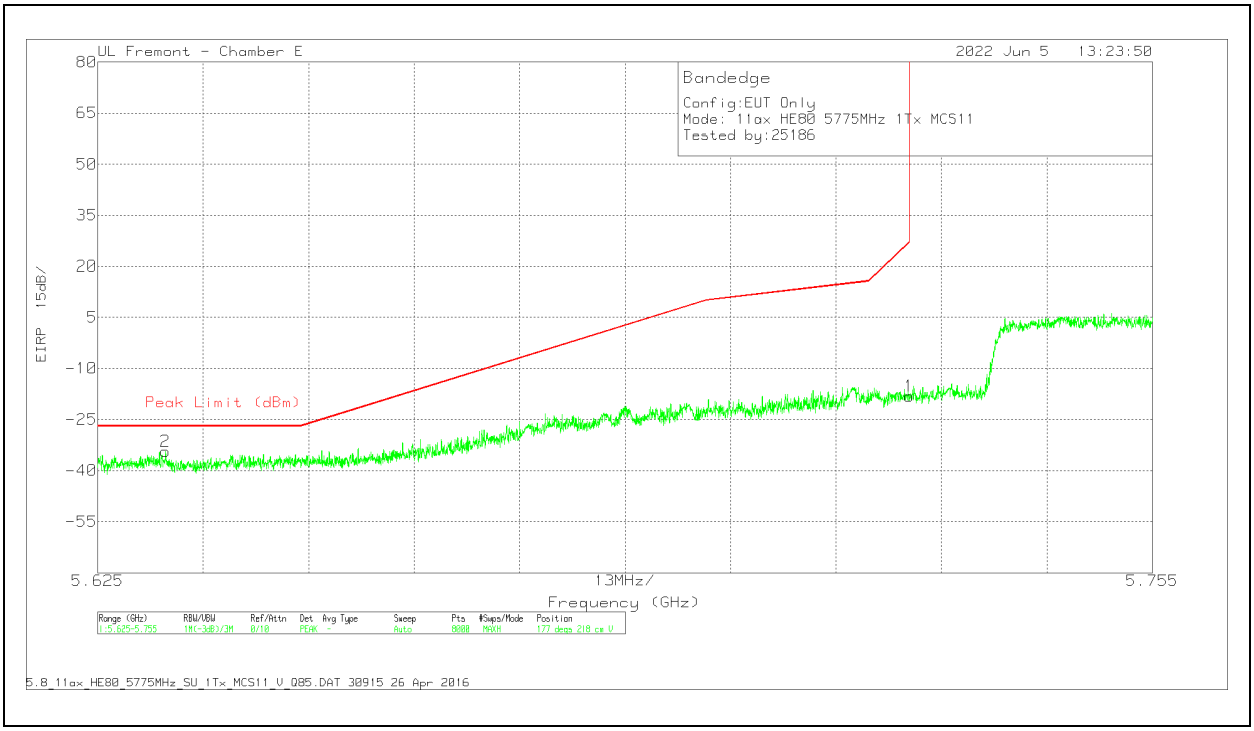


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	200897 ACF (dB/m)	Amp/Cbl/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-41.66	Pk	34.7	-20.3	11.8	0	-15.46	27	-42.46	84	219	H
2	5.645075	-57.66	Pk	34.6	-20.7	11.8	0	-31.96	-27	-4.96	84	219	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



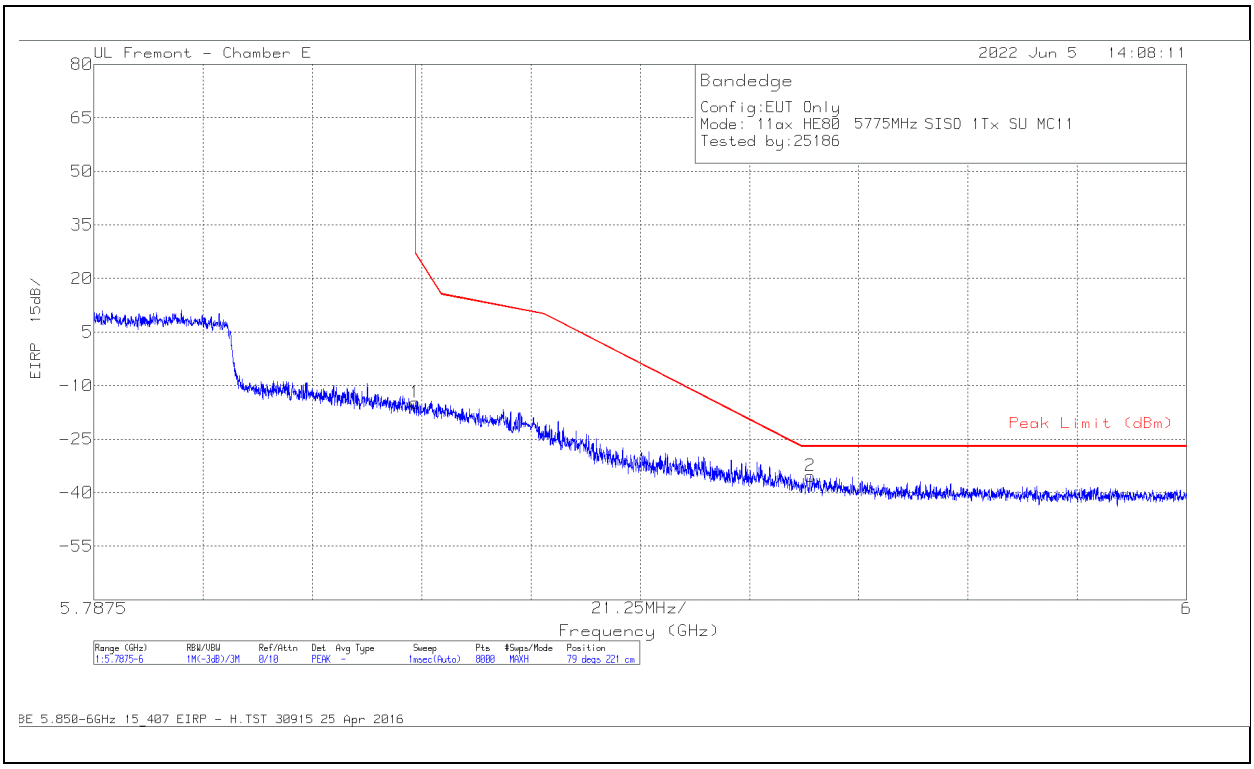
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	200897 ACF (dB/m)	Amp/Cbl/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-44.42	Pk	34.7	-20.3	11.8	0	-18.22	27	-45.22	177	218	V
2	5.633354	-60.03	Pk	34.5	-20.7	11.8	0	-34.43	-27	-7.43	177	218	V

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

BANDEDGE (CHANNEL 155 HIGH EDGE)

HORIZONTAL RESULT

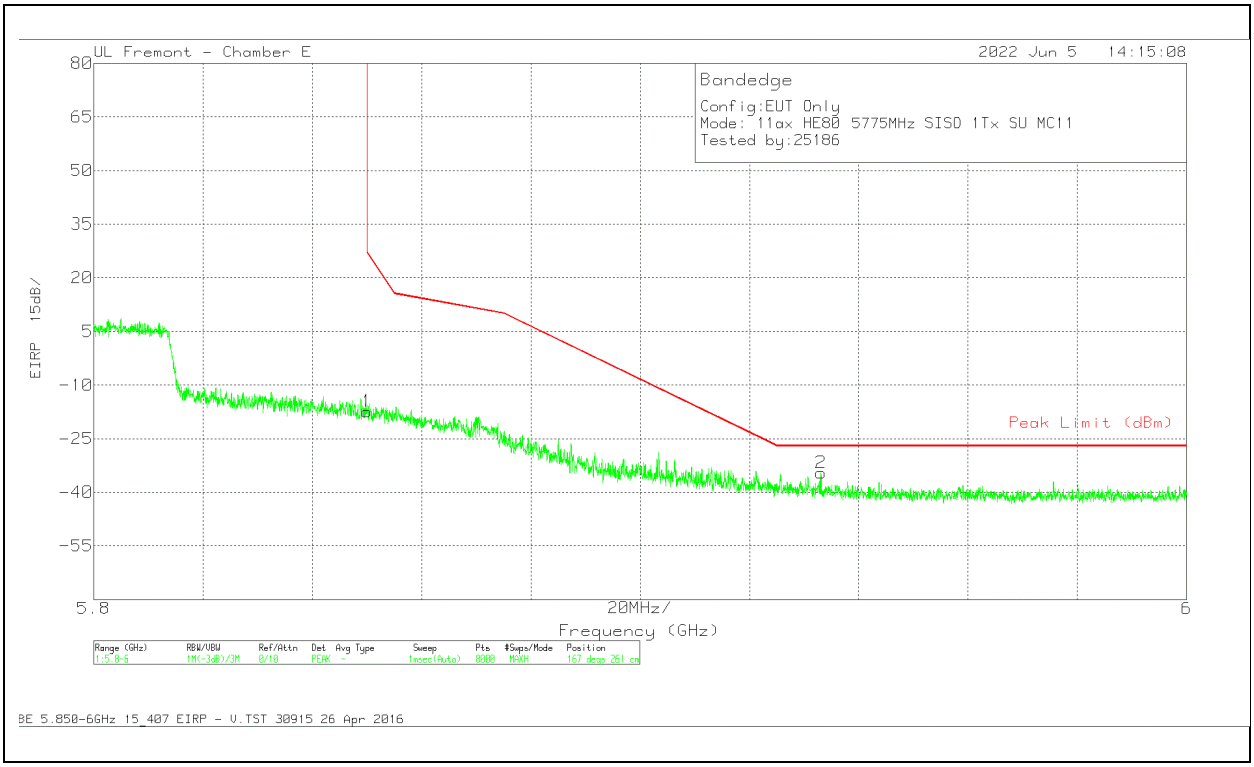


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	200897 ACF (dB/m)	Amp/Cbl/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-41.86	Pk	35	-19.7	11.8	0	-14.76	27	-41.76	79	221	H
2	5.926839	-62.25	Pk	35.1	-20	11.8	0	-35.35	-27	-8.35	79	221	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	200897 ACF (dB/m)	Amp/Cbl/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-44.52	Pk	35	-19.7	11.8	0	-17.42	27	-44.42	167	261	V
2	5.933091	-61.45	Pk	35.1	-20	11.8	0	-34.55	-27	-7.55	167	261	V

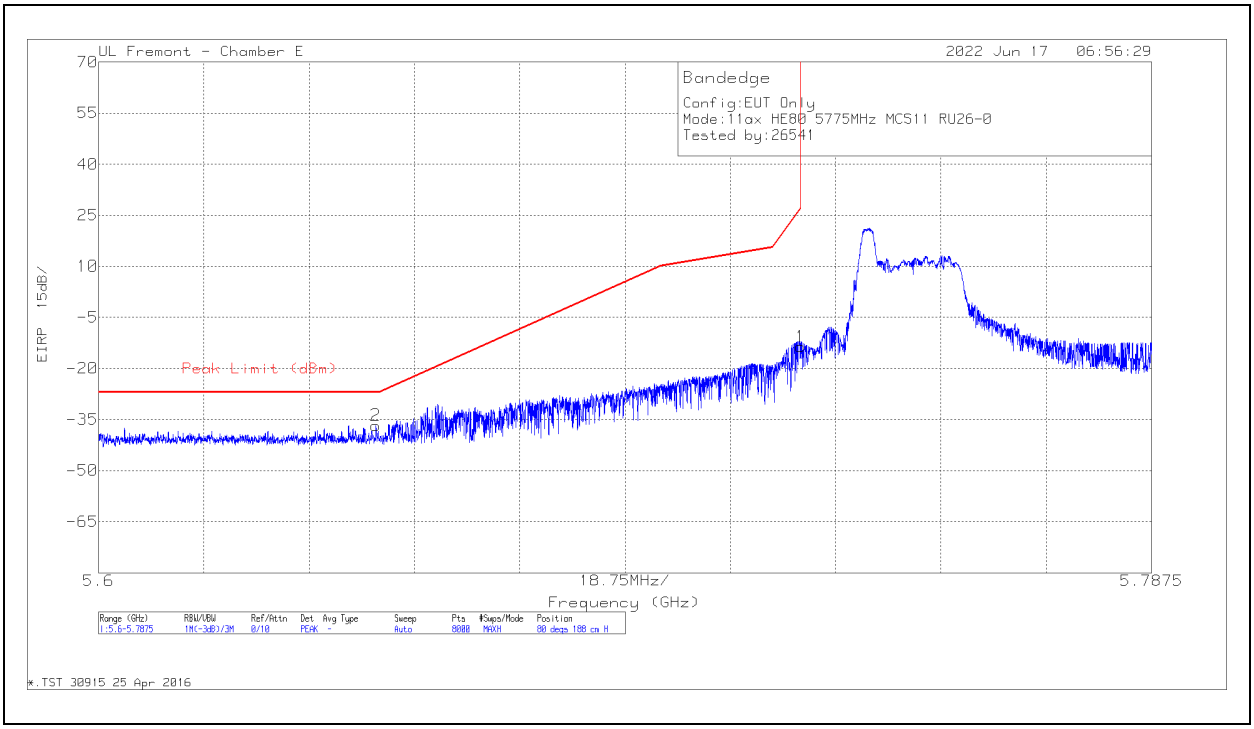
Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

1TX Antenna 5 MODE: 26-Tones, RU Index 0

BANDEDGE (CHANNEL 155 LOW EDGE)

HORIZONTAL RESULT

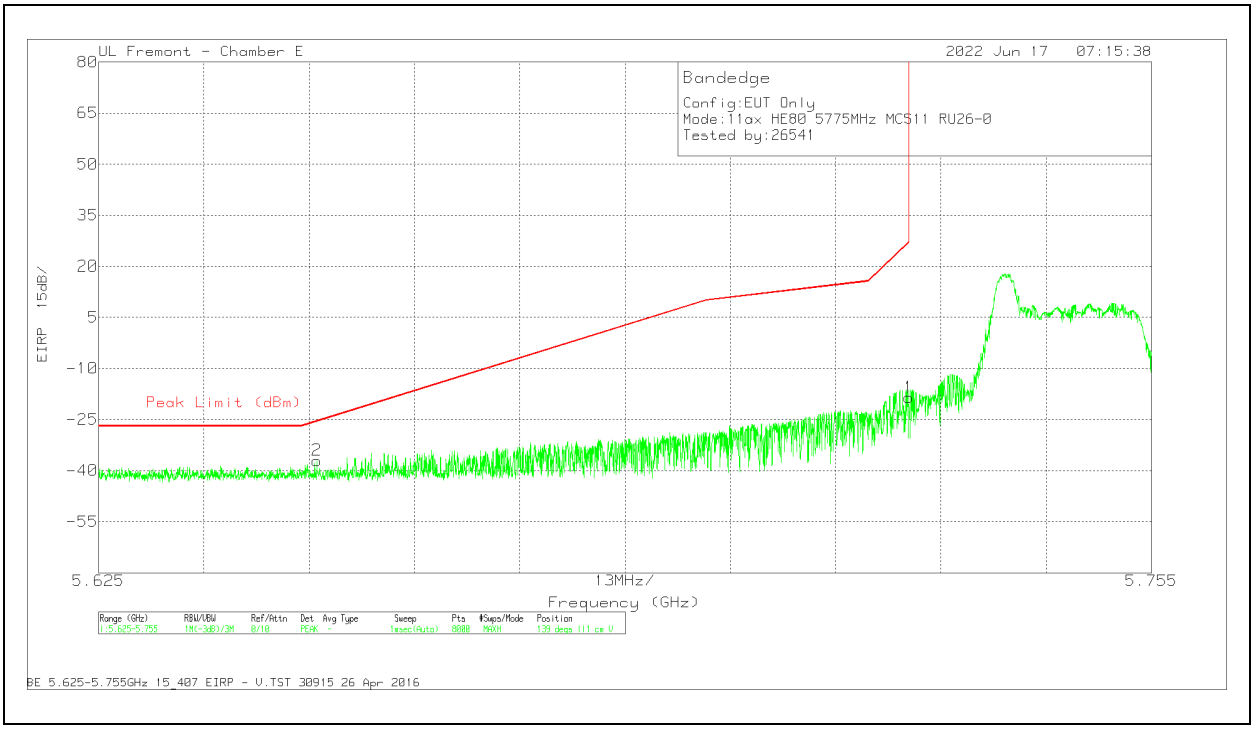


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	200897 ACF (dB/m)	Amp/Cbl/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-39.82	Pk	34.7	-20.3	11.8	0	-13.62	27	-40.62	80	188	H
2	5.649365	-62.41	Pk	34.5	-20.6	11.8	0	-36.71	-27	-9.71	80	188	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	200897 ACF (dB/m)	Amp/Cbl/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-44.74	Pk	34.7	-20.3	11.8	0	-18.54	27	-45.54	139	111	V
2	5.651946	-62.72	Pk	34.5	-20.6	11.8	0	-37.02	-25.56	-11.46	139	111	V

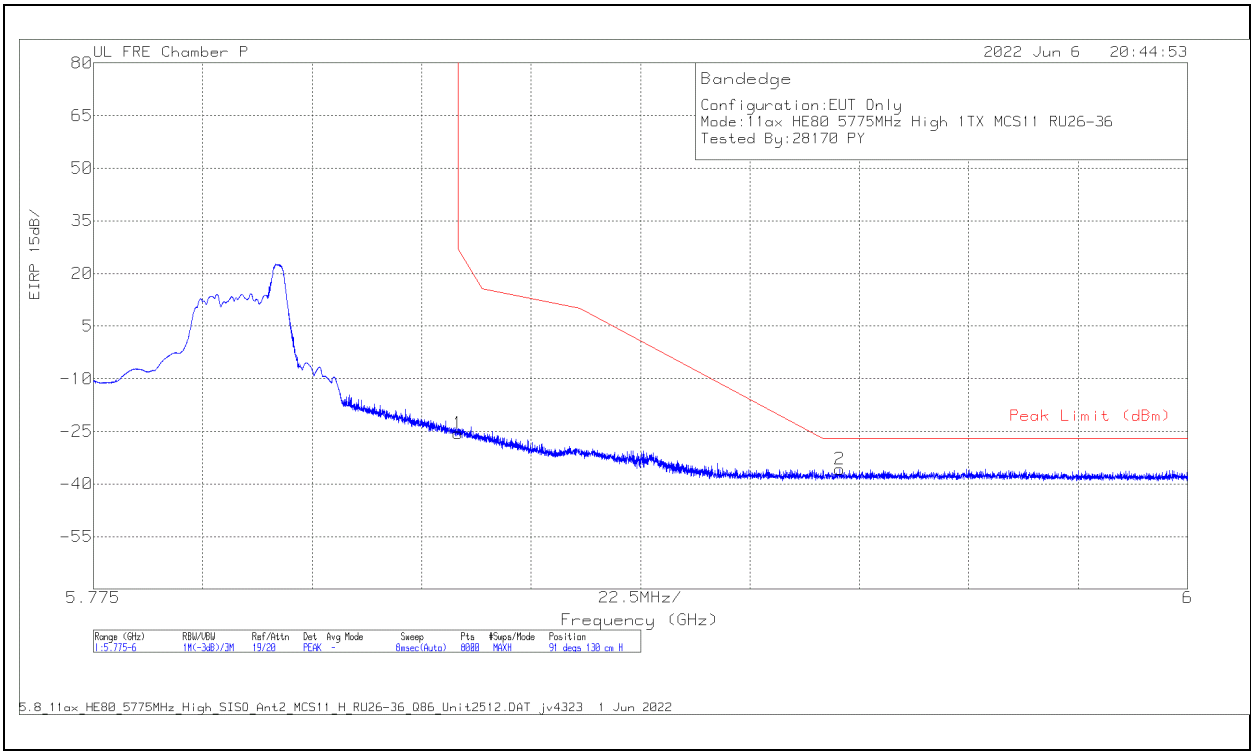
Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

1TX Antenna 5 MODE: 26-Tones, RU Index 36

BANDEDGE (CHANNEL 155 HIGH EDGE)

HORIZONTAL RESULT

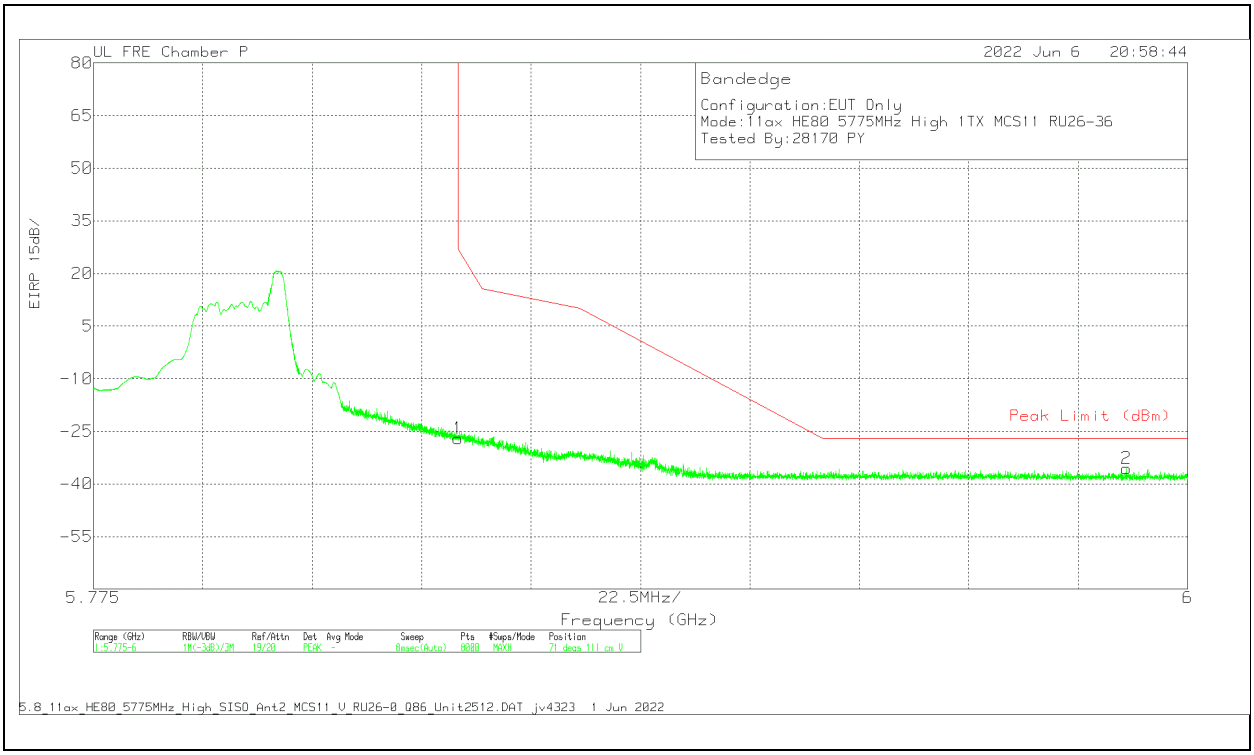


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF 41112 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-44.52	Pk	35.4	-28.3	11.8	-25.62	27	-52.62	91	130	H
2	5.9285	-54.81	Pk	35.5	-28.3	11.8	-35.81	-27	-8.81	91	130	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF 41112 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-45.96	Pk	35.4	-28.3	11.8	-27.06	27	-54.06	71	111	V
2	5.987374	-54.52	Pk	35.5	-28.4	11.8	-35.62	-27	-8.62	71	111	V

Pk - Peak detector

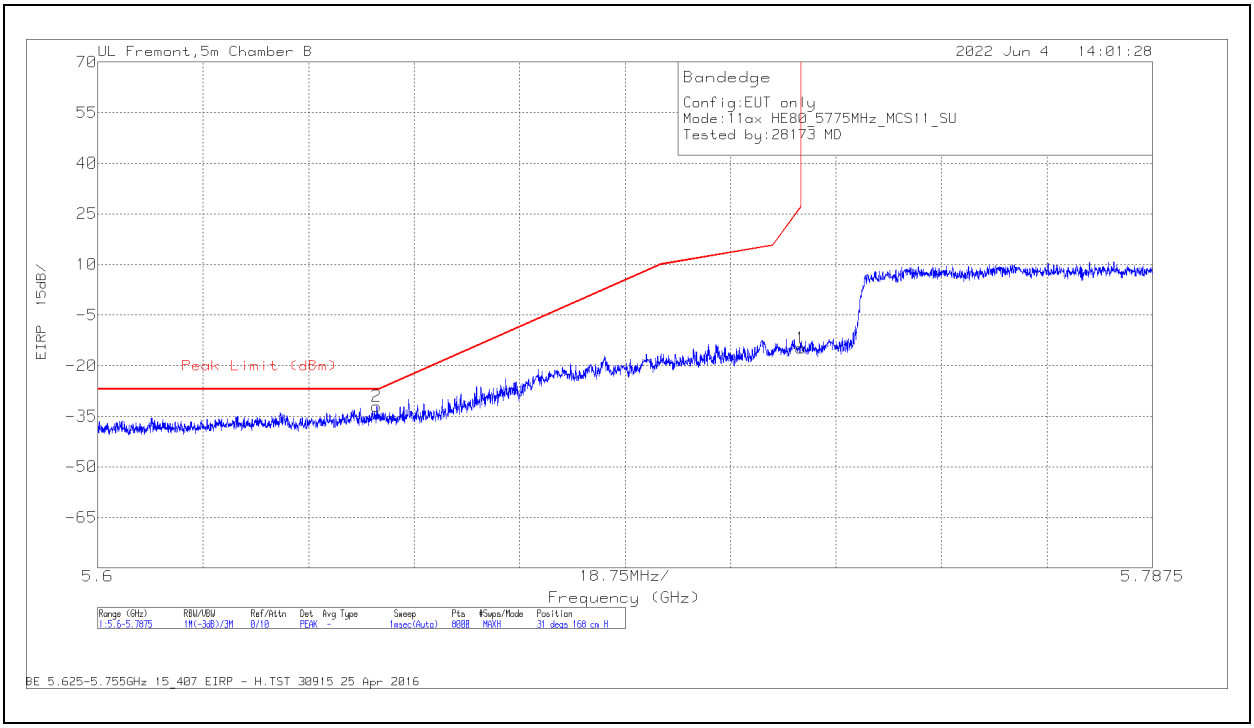
UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL LLC

1TX Antenna 5 MODE: SU, Single User

BANDEDGE (CHANNEL 155 LOW EDGE)

HORIZONTAL RESULT

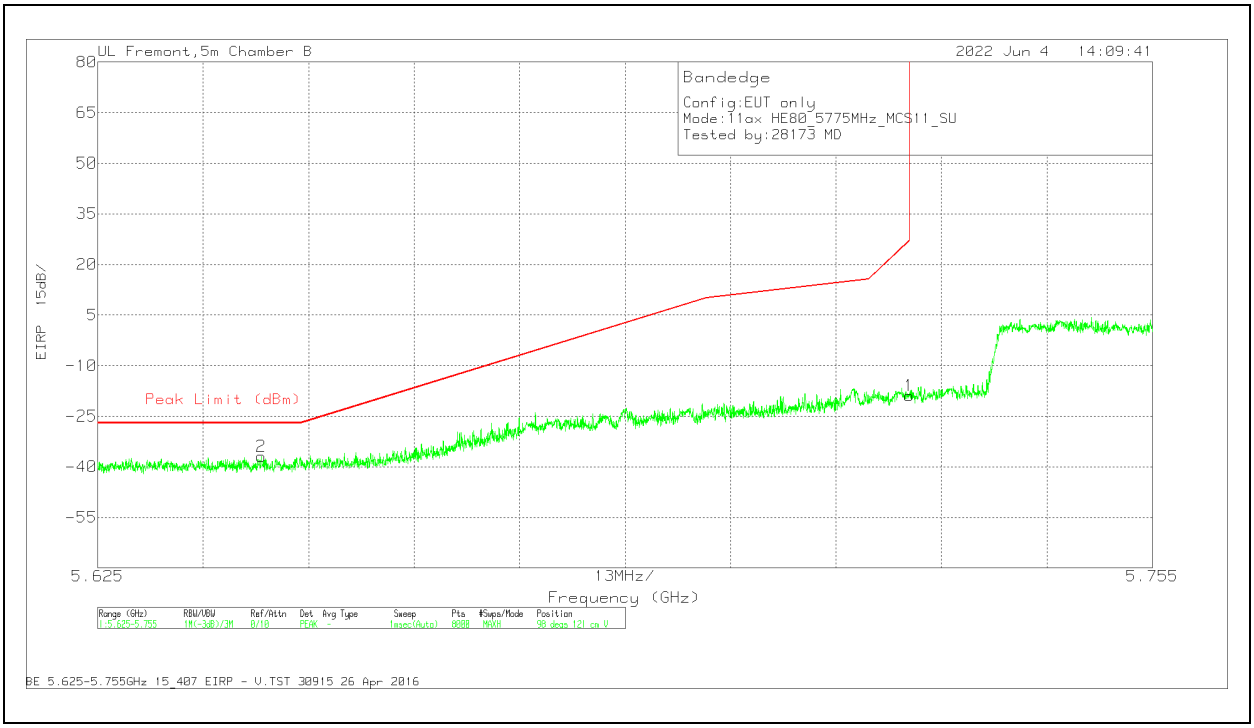


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	81886 ACF (dB)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-41.7	Pk	35	-19.8	11.8	0	-14.7	27	-41.7	31	168	H
2	5.649599	-58.28	Pk	34.7	-20.2	11.8	0	-31.98	-27	-4.98	31	168	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



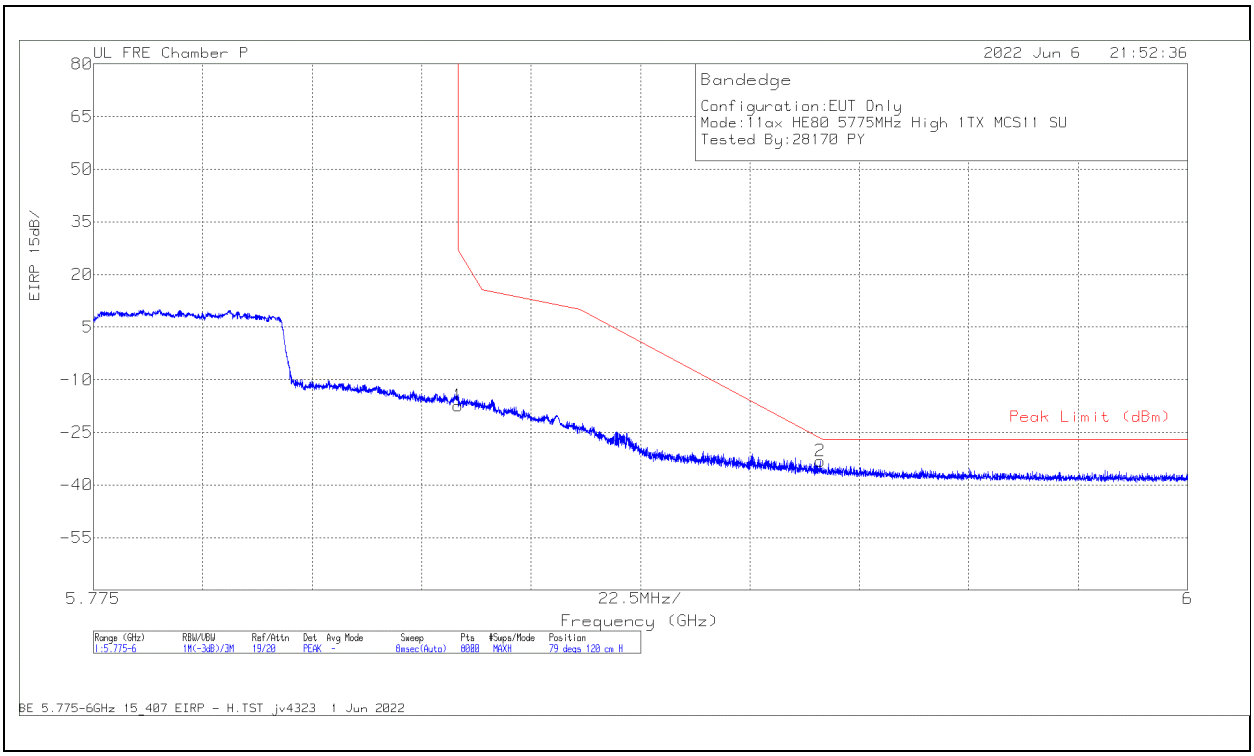
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	81886 ACF (dB)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-45.84	Pk	35	-19.8	11.8	0	-18.84	27	-45.84	98	121	V
2	5.645152	-63.17	Pk	34.7	-20.2	11.8	0	-36.87	-27	-9.87	98	121	V

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

BANDEDGE (CHANNEL 155 HIGH EDGE)

HORIZONTAL RESULT

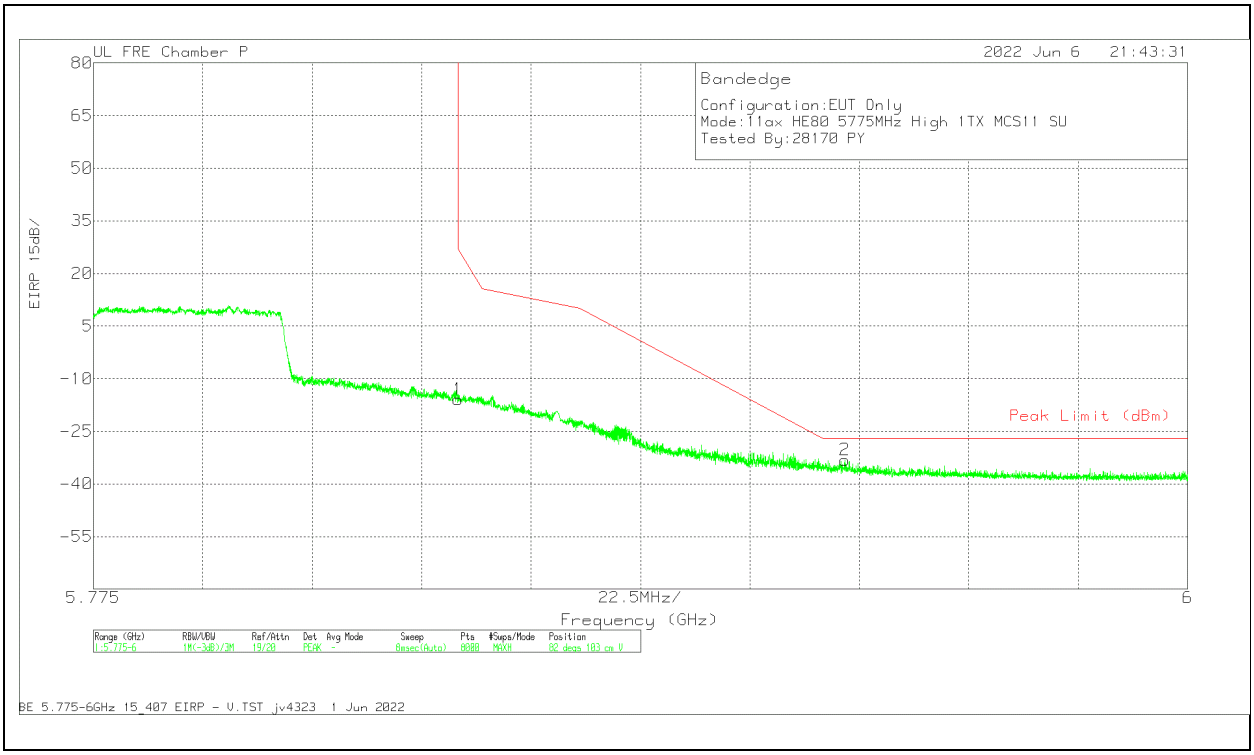


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF 41112 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-36.27	Pk	35.4	-28.3	11.8	-17.37	27	-44.37	79	120	H
2	5.924449	-52.1	Pk	35.5	-28.3	11.8	-33.1	-26.59	-6.51	79	120	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF 41112 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-34.8	Pk	35.4	-28.3	11.8	-15.9	27	-42.9	82	103	V
2	5.929513	-52.23	Pk	35.5	-28.3	11.8	-33.23	-27	-6.23	82	103	V

Pk - Peak detector

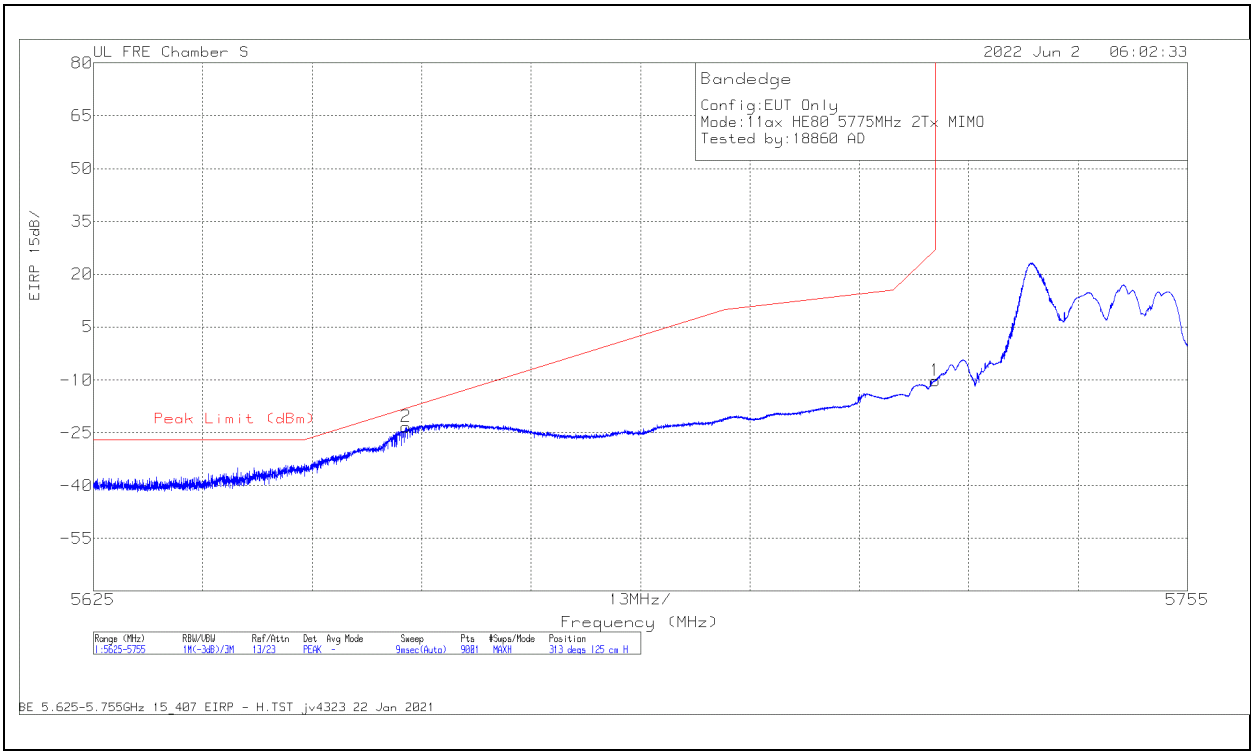
UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL LLC

2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tones, RU Index 0

BANDEDGE (CHANNEL 155 LOW EDGE)

HORIZONTAL RESULT

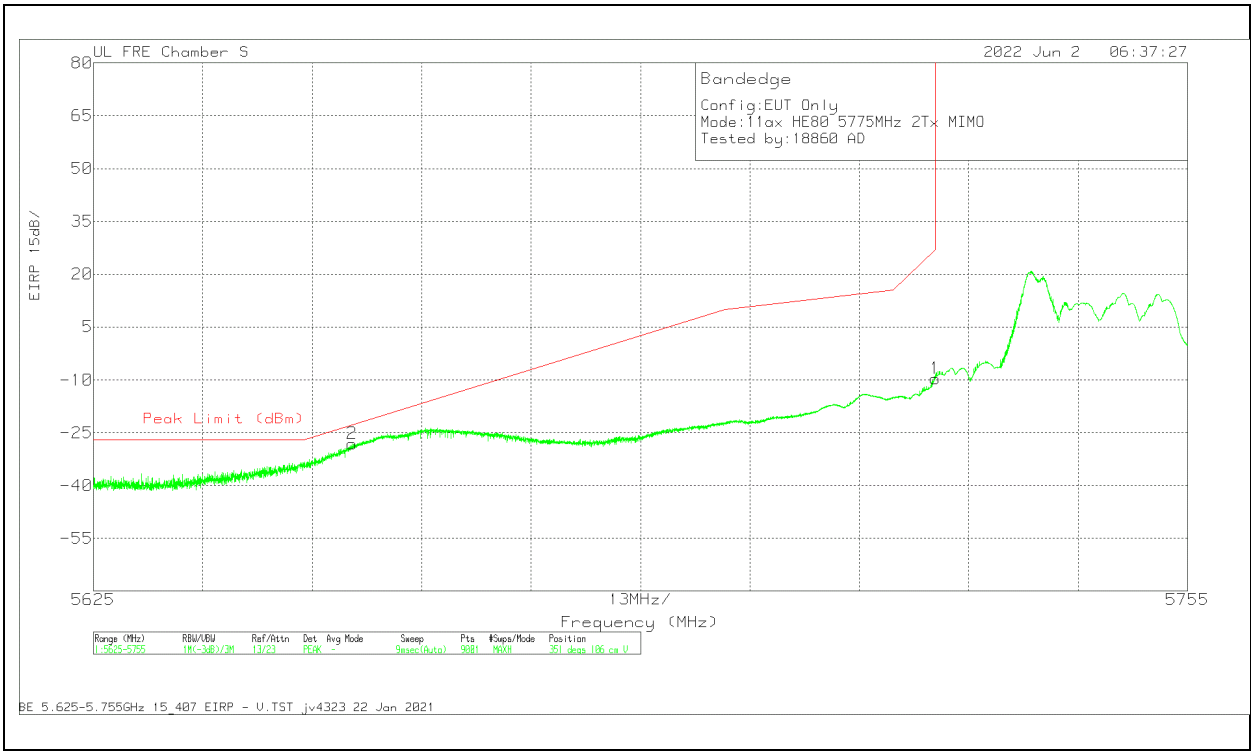


Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	-26.45	Pk	34.7	-30.2	11.8	0	-10.15	27	-37.15	313	125	H
2	5662.121	-39.69	Pk	34.7	-30.2	11.8	0	-23.39	-18.03	-5.36	313	125	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	-25.9	Pk	34.7	-30.2	11.8	0	-9.6	27	-36.6	351	106	V
2	5655.751	-44.4	Pk	34.7	-30.3	11.8	0	-28.2	-22.74	-5.46	351	106	V

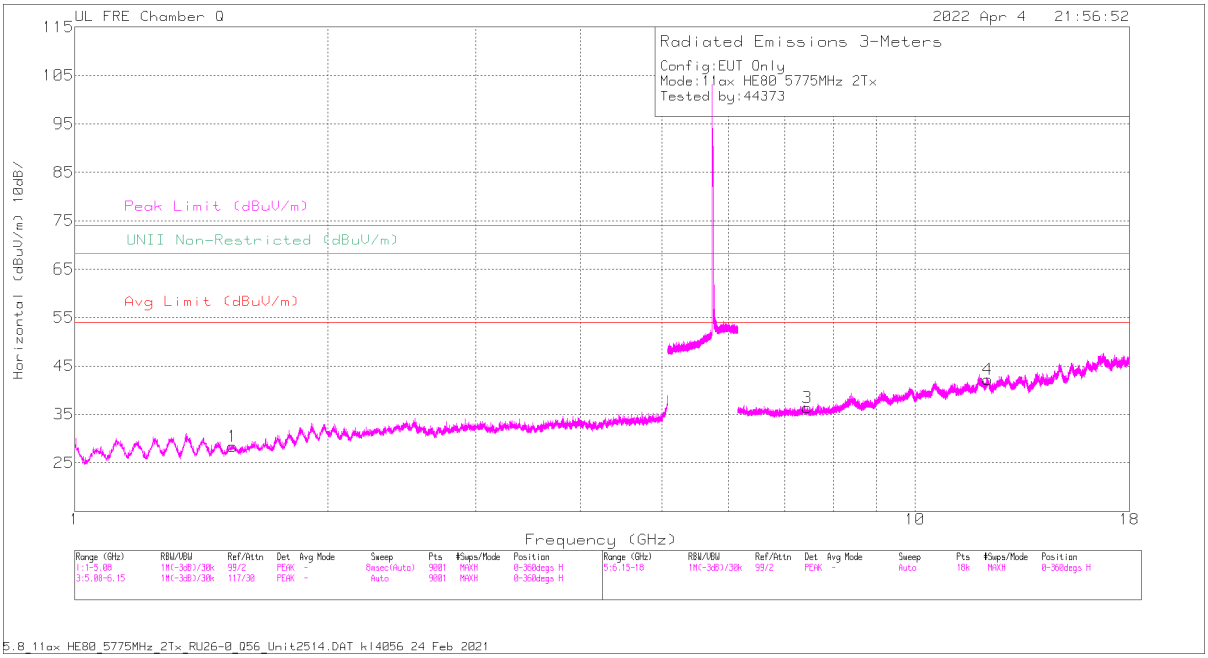
Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888

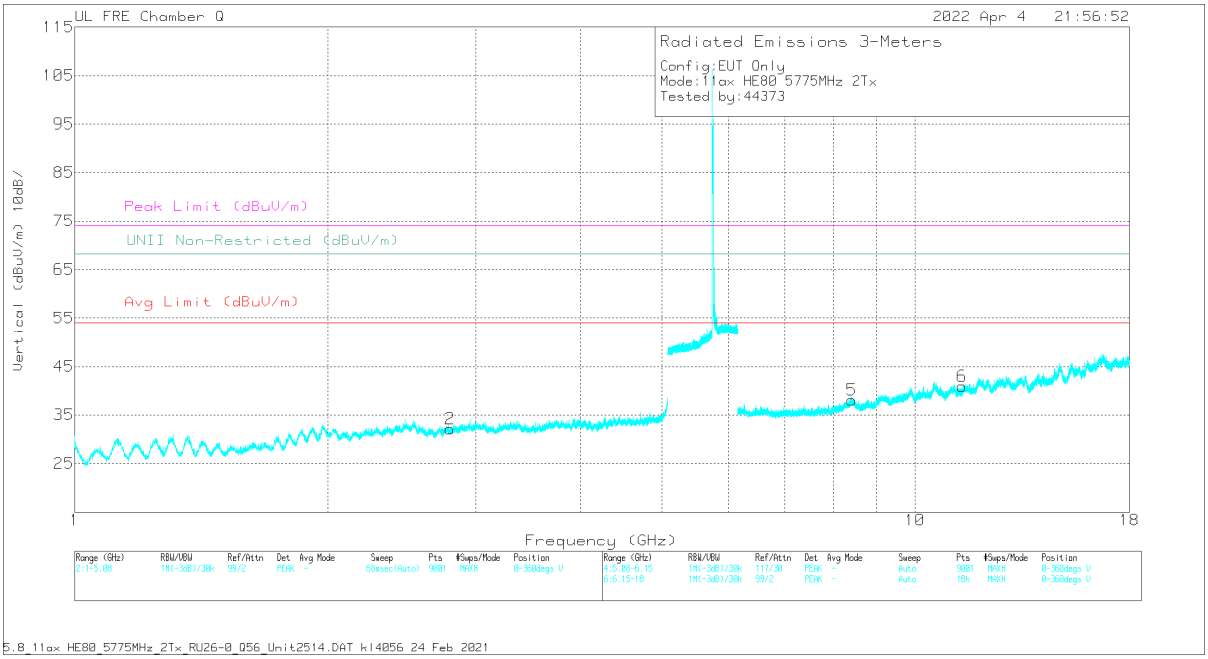
This report shall not be reproduced except in full, without the written approval of UL LLC

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL LLC

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 200895 (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	1.539971	44.44	ADR	27.7	-44.8	0	27.34	54	-26.66	-	-	0	100	H
	1.541724	56.1	PK-U	27.7	-44.7	0	39.1	-	-	74	-34.9	0	100	H
2	2.797933	53.91	PK-U	32.2	-43.6	0	42.51	-	-	74	-31.49	0	201	V
	2.799126	41.87	ADR	32.2	-43.6	.0	30.47	54	-23.53	-	-	0	201	V
3	7.448915	36.09	ADR	35.7	-37.3	0	34.49	54	-19.51	-	-	0	100	H
	7.451663	47.9	PK-U	35.7	-37.3	0	46.3	-	-	74	-27.7	0	100	H
5	8.415651	48.76	PK-U	35.9	-35.9	0	48.76	-	-	74	-25.24	0	201	V
	8.416044	36.7	ADR	35.9	-35.9	0	36.7	54	-17.3	-	-	0	201	V
6	11.386272	34.52	ADR	38.2	-33.9	0	39.02	54	-15.18	-	-	0	200	V
	11.389729	46.26	PK-U	38.2	-33.9	0	50.56	-	-	74	-23.44	0	200	V
4	12.211301	47.29	PK-U	39.1	-34.5	0	51.89	-	-	74	-22.11	0	100	H
	12.213259	36.08	ADR	39.1	-34.5	0	40.68	54	-13.32	-	-	0	100	H

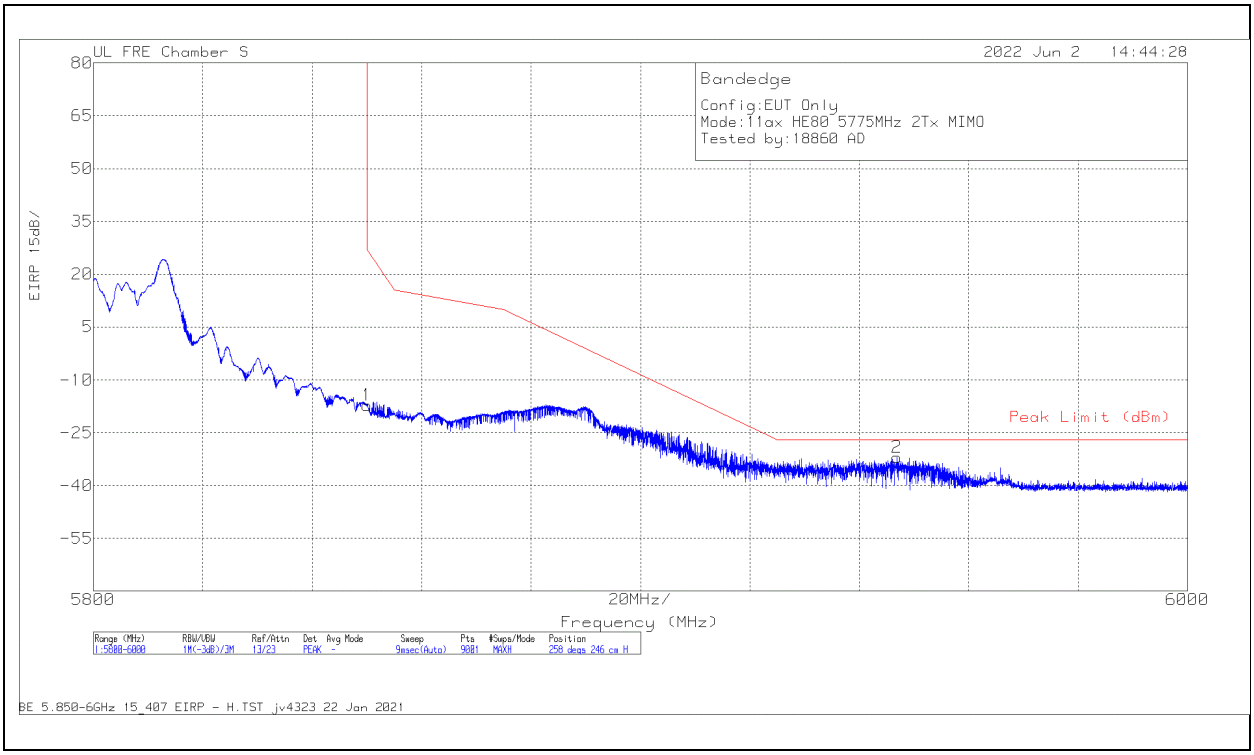
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tones, RU Index 36

BANDEDGE (CHANNEL 155 HIGH EDGE)

HORIZONTAL RESULT

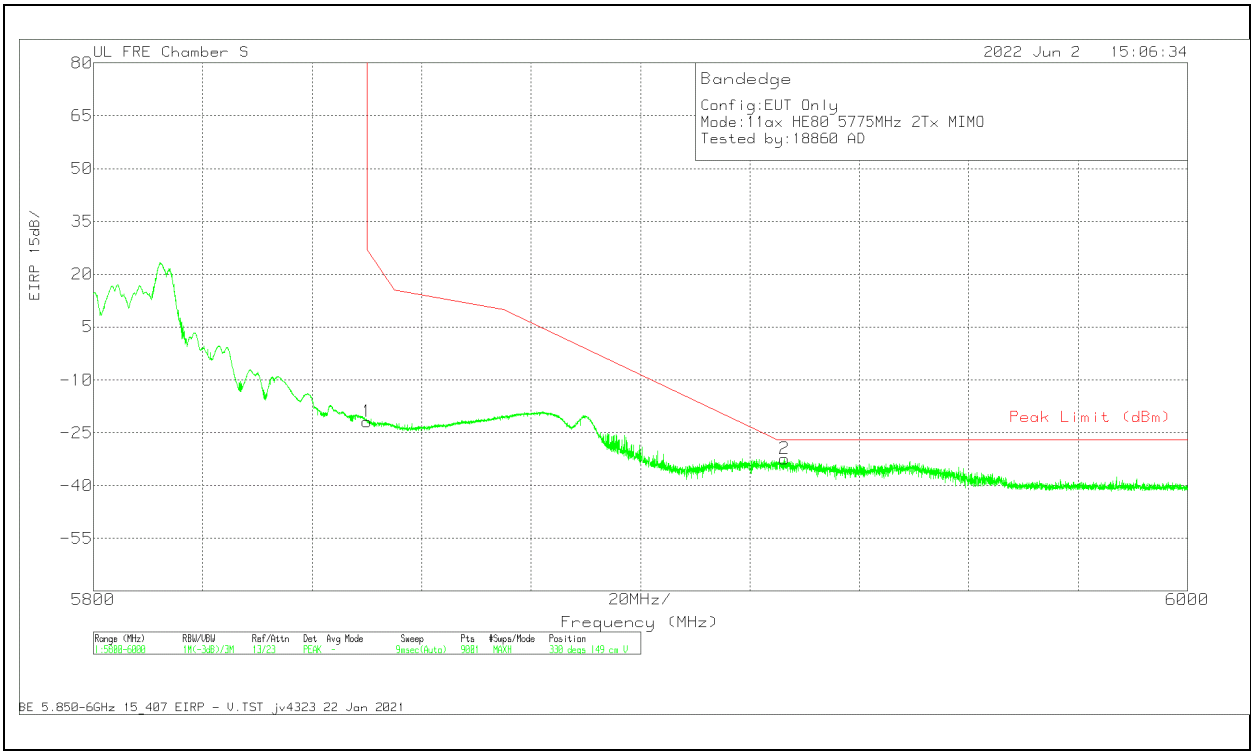


Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5850	-34.07	Pk	35	-30	11.8	0	-17.27	27	-44.27	258	246	H
2	5946.865	-49.19	Pk	35.1	-29.8	11.8	0	-32.09	-27	-5.09	258	246	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5850	-38.67	Pk	35	-30	11.8	0	-21.87	27	-48.87	330	149	V
2	5926.288	-49.5	Pk	35.1	-29.8	11.8	0	-32.4	-27	-5.4	330	149	V

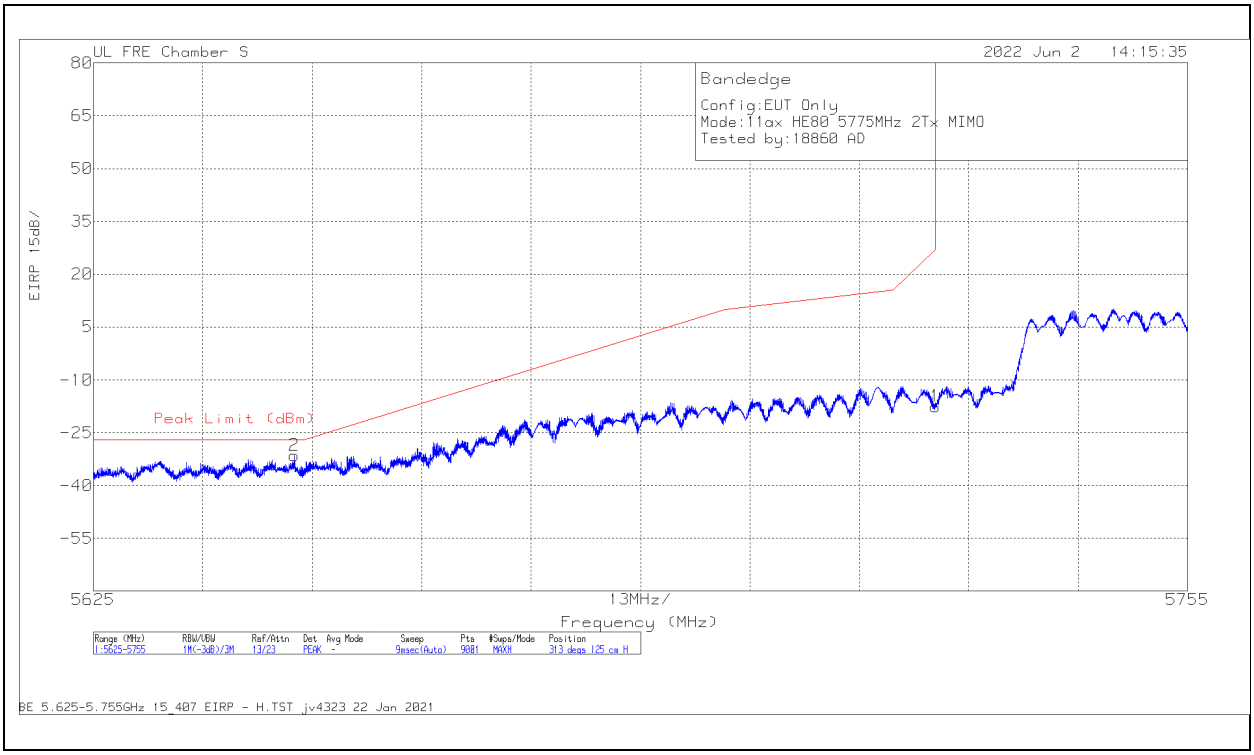
Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

2TX Antenna 6 + Antenna 5 OFDMA MODE: SU, Single User

BANDEDGE (CHANNEL 155 LOW EDGE)

HORIZONTAL RESULT

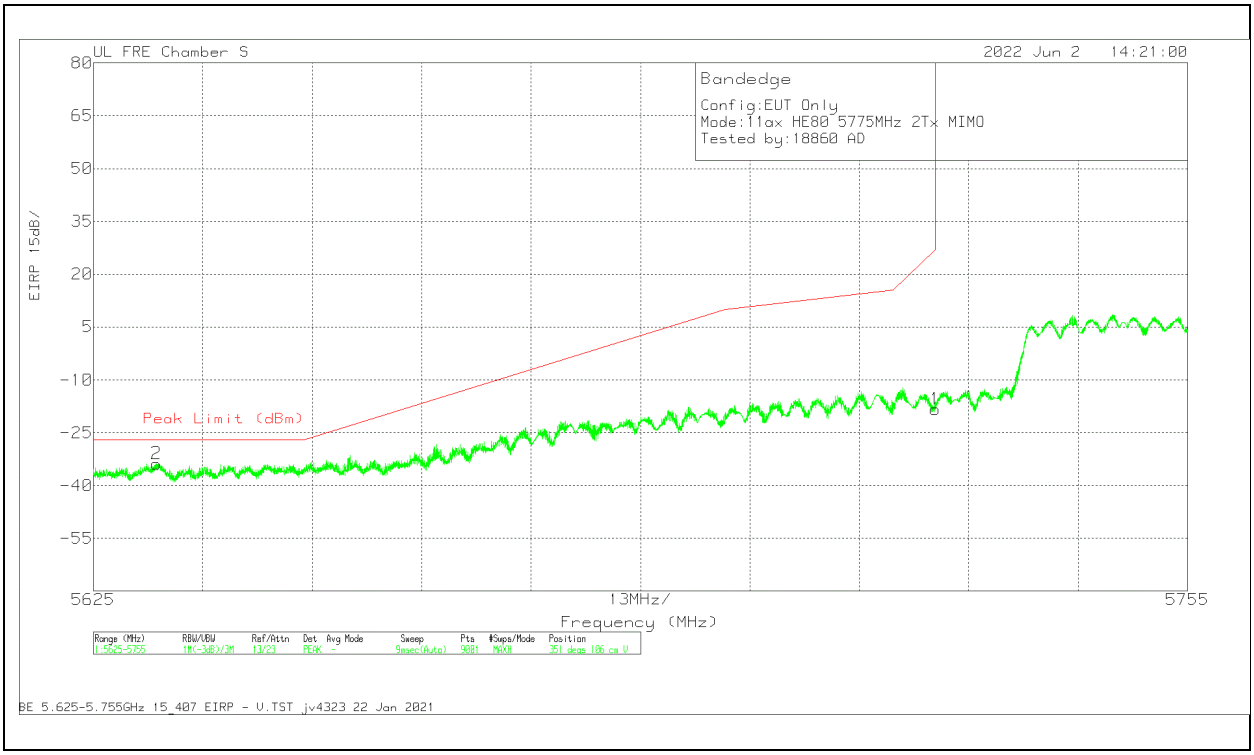


Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	-33.8	Pk	34.7	-30.2	11.8	0	-17.5	27	-44.5	313	125	H
2	5648.89	-47.72	Pk	34.7	-30.3	11.8	0	-31.52	-27	-4.52	313	125	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



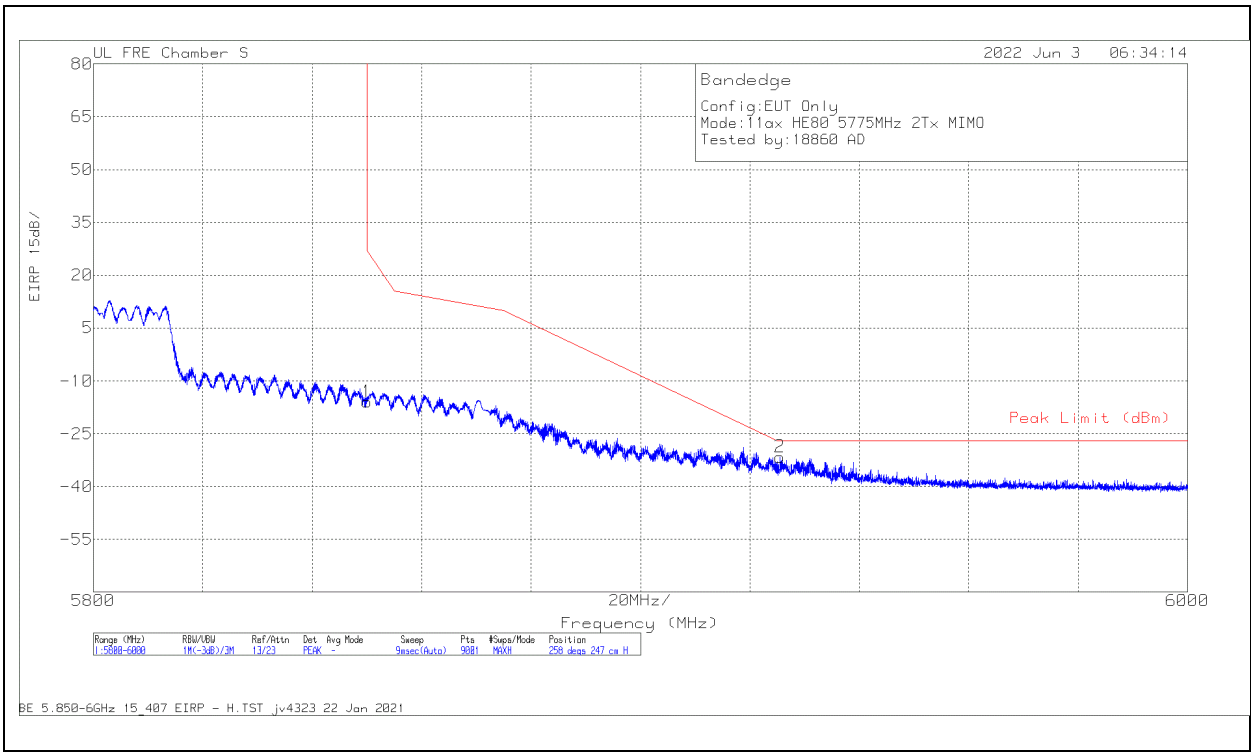
Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	-34.55	Pk	34.7	-30.2	11.8	0	-18.25	27	-45.25	351	106	V
2	5632.453	-49.97	Pk	34.7	-30.3	11.8	0	-33.77	-27	-6.77	351	106	V

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

BANDEDGE (CHANNEL 155 HIGH EDGE)

HORIZONTAL RESULT

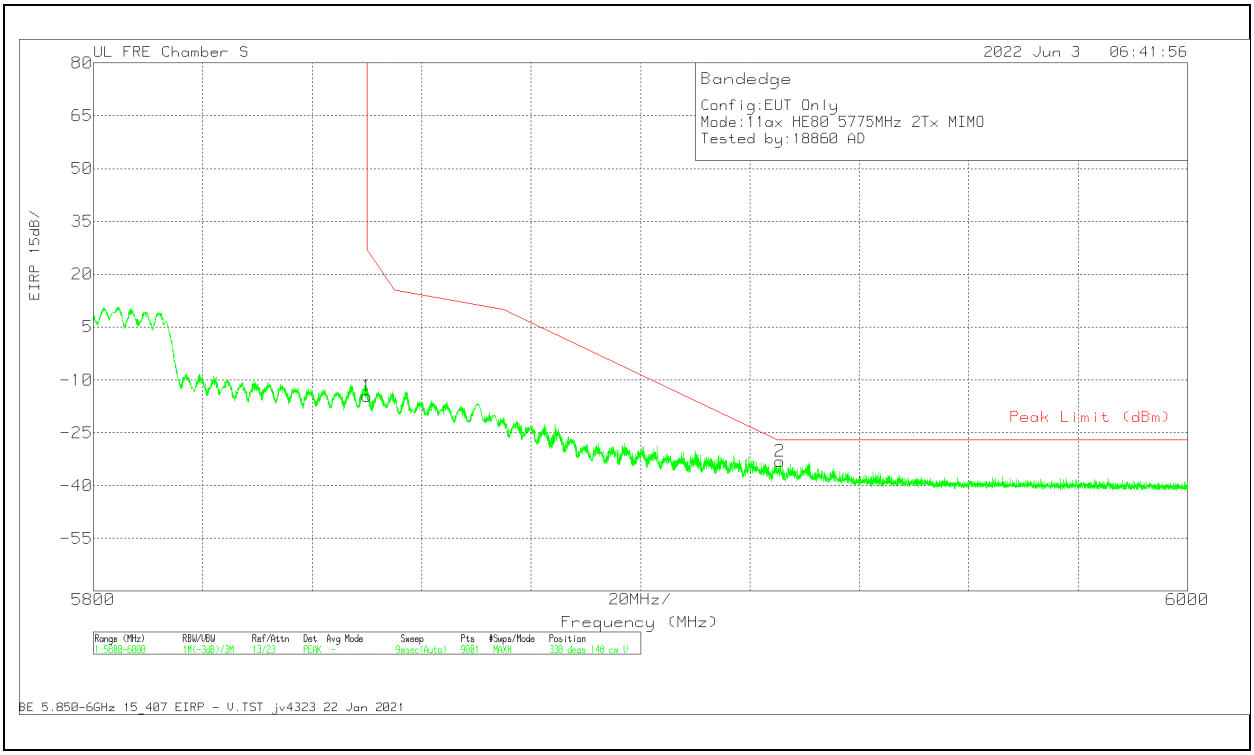


Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5850	-32.75	Pk	35	-30	11.8	0	-15.95	27	-42.95	258	247	H
2	5925.51	-48.65	Pk	35.1	-29.8	11.8	0	-31.55	-27	-4.55	258	247	H

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

VERTICAL RESULT



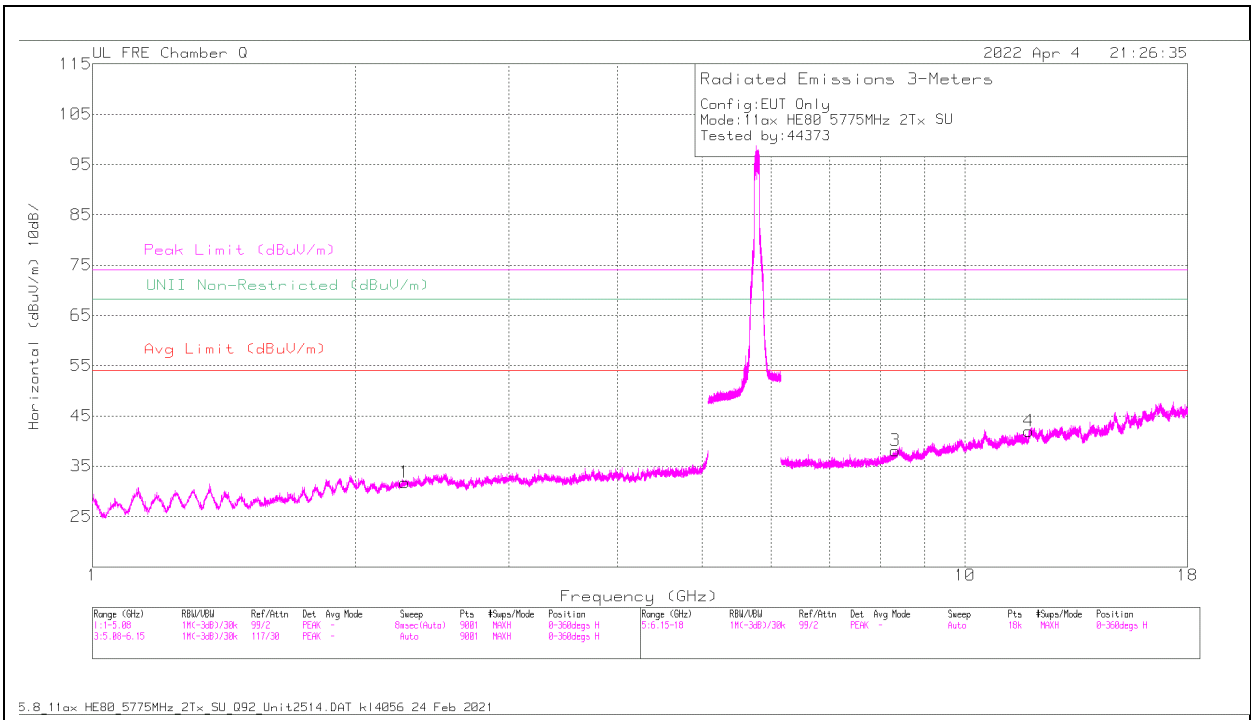
Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 206807 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5850	-31.48	Pk	35	-30	11.8	0	-14.68	27	-41.68	330	148	V
2	5925.443	-50.19	Pk	35.1	-29.8	11.8	0	-33.09	-27	-6.09	330	148	V

Pk - Peak detector

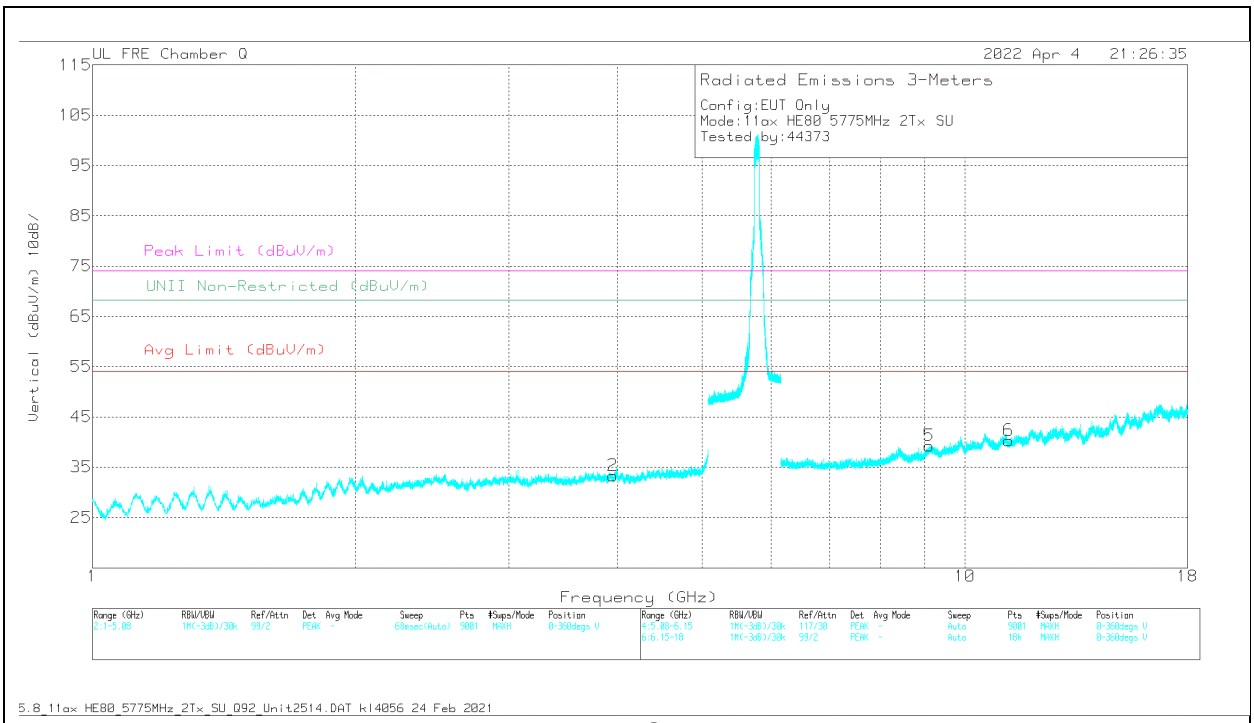
UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

RADIATED EMISSIONS

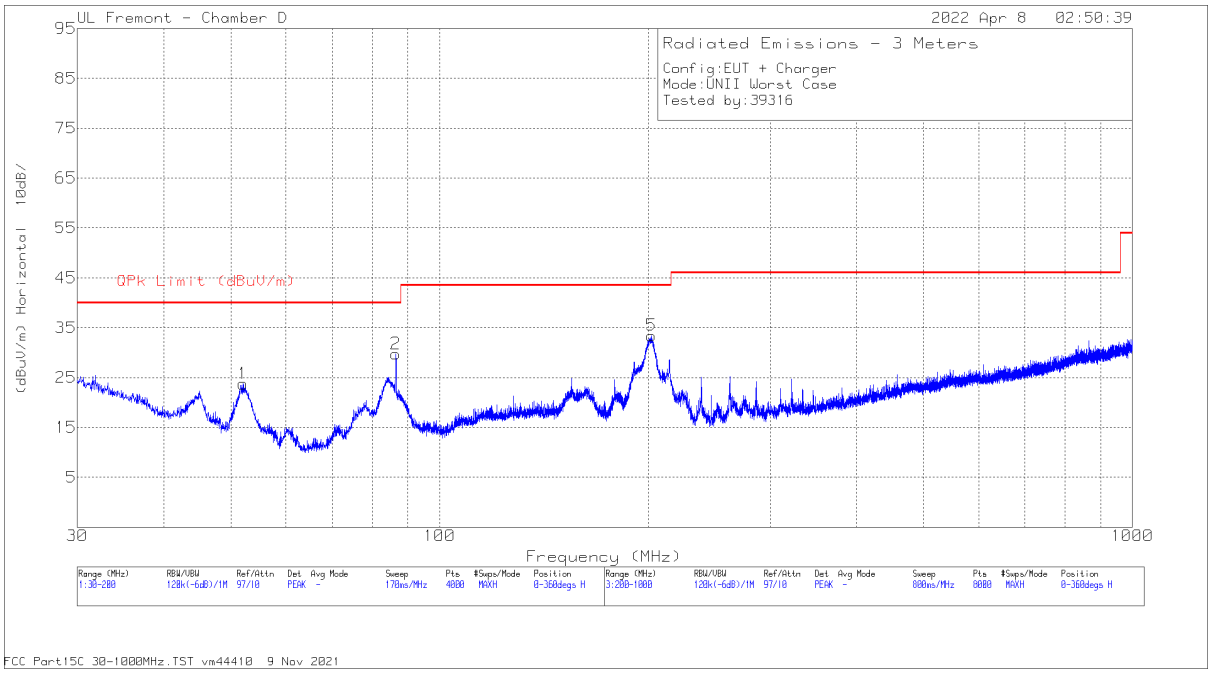
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 200895 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.279711	54.51	PK-U	31.8	-44.3	0	42.01	-	-	74	-31.99	0	100	H
	2.279754	43.11	ADR	31.8	-44.3	.26	30.87	54	-23.13	-	-	0	100	H
2	3.948113	39.15	ADR	33.4	-41	.26	31.81	54	-22.19	-	-	0	201	V
	3.949079	50.94	PK-U	33.4	-41	0	43.34	-	-	74	-30.66	0	201	V
3	8.326387	36.31	ADR	36	-36.4	.26	36.17	54	-18.01	-	-	0	100	H
	8.327373	47.64	PK-U	36	-36.3	0	47.34	-	-	74	-26.66	0	100	H
5	9.109126	48.19	PK-U	36.3	-35.2	0	49.29	-	-	74	-24.71	0	201	V
	9.11038	36.62	ADR	36.3	-35.2	.26	37.98	54	-16.02	-	-	0	201	V
6	11.214543	33.99	ADR	38.1	-33.2	.26	39.15	54	-14.85	-	-	0	200	V
	11.21564	45.54	PK-U	38.1	-33.2	0	50.44	-	-	74	-23.56	0	200	V
4	11.836006	36.37	ADR	38.7	-34.7	.26	40.63	54	-13.37	-	-	0	100	H
	11.837373	47.71	PK-U	38.7	-34.7	0	51.71	-	-	74	-22.29	0	100	H

PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

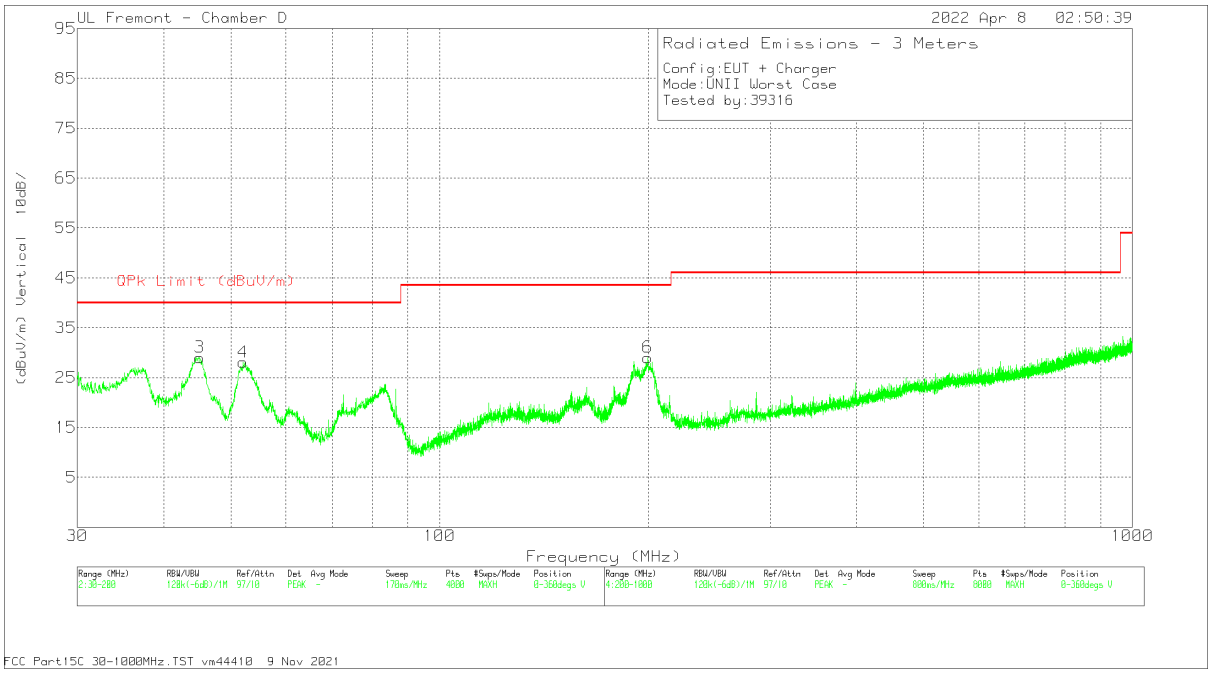
UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

1.2. WORST CASE BELOW 1 GHz

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



HORIZONTAL



VERTICAL

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

Below 1GHz Data

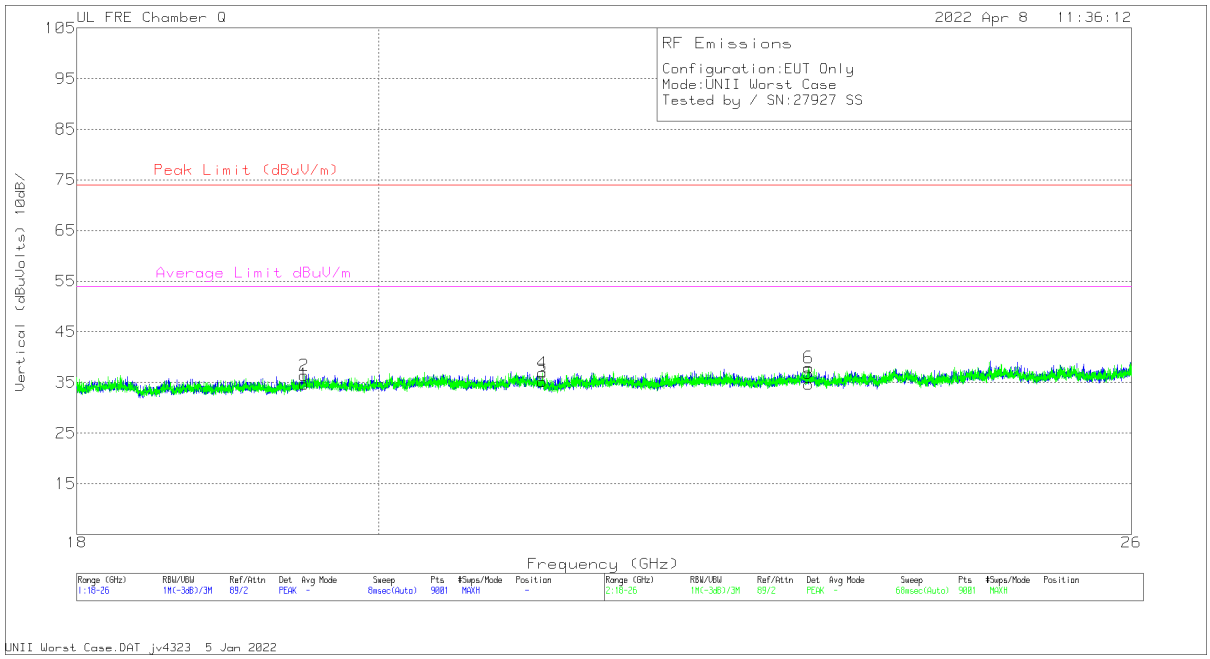
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 80293 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	52.0207	41.28	Pk	13.9	-31.4	23.78	40	-16.22	0-360	399	H
2	86.4971	47.35	Pk	13.5	-31.1	29.75	40	-10.25	0-360	199	H
3	45.0489	43.54	Pk	17	-31.5	29.04	40	-10.96	0-360	100	V
4	52.0632	45.58	Pk	13.9	-31.4	28.08	40	-11.92	0-360	100	V
5	202.3	44.65	Pk	19	-30.2	33.45	43.52	-10.07	0-360	99	H
6	199.746	40.04	Pk	19.1	-30.1	29.04	43.52	-14.48	0-360	100	V

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

1.3. WORST CASE 18-26 GHz

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



HORIZONTAL & VERTICAL

18 – 26GHz Data

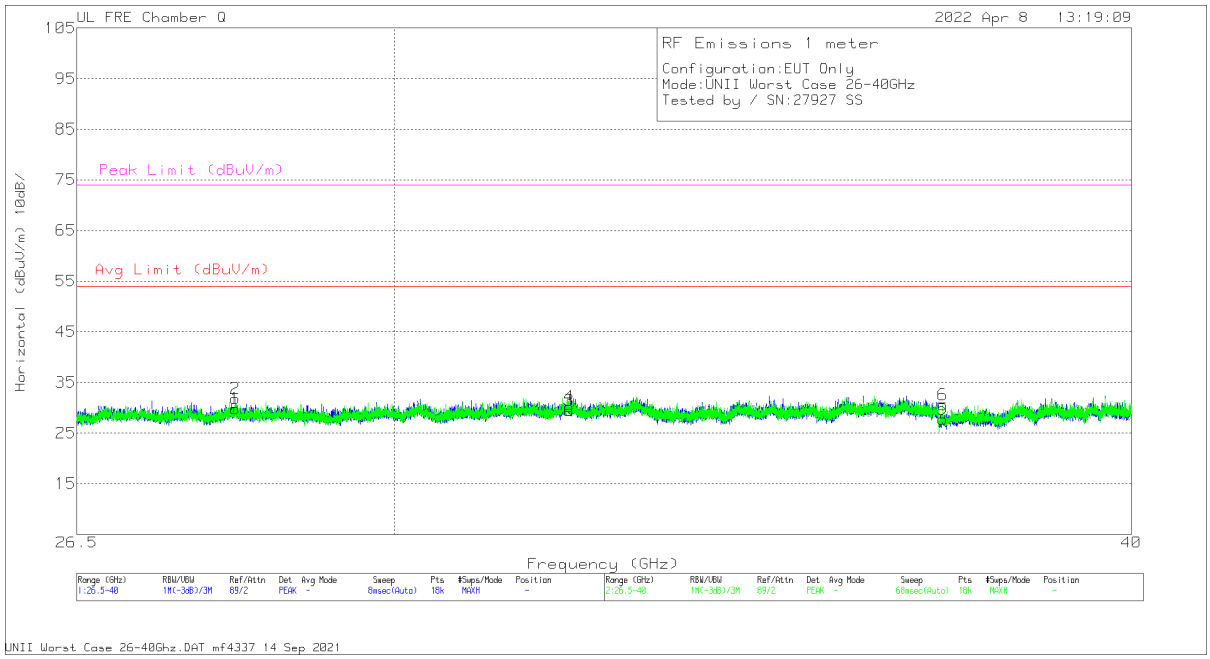
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 81139 (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit dBuV/m	Margin (dB)
1	19.486222	68.03	Pk	33.3	-57.2	-9.5	34.63	74	-39.37	54	-19.37
2	19.486222	69.81	Pk	33.3	-57.2	-9.5	36.41	74	-37.59	54	-16.07
3	21.172445	67.63	Pk	33.8	-56.8	-9.5	35.13	74	-38.87	54	-18.87
4	21.172445	69.35	Pk	33.8	-56.8	-9.5	36.85	74	-37.15	54	-17.59
5	23.234667	67.02	Pk	34.3	-57.1	-9.5	34.72	74	-39.28	54	-19.28
6	23.234667	70.23	Pk	34.3	-57.1	-9.5	37.93	74	-36.07	54	-17.15

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

1.4. WORST CASE 26-40 GHz

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



HORIZONTAL & VERTICAL

26 – 40GHz Data

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 81105 (dB/m)	Amp/Cabl (dB)	Dist Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	28.18825	66.08	Pk	36.6	-63.4	-9.5	29.78	54	-24.22	74	-44.22
2	28.18825	68.12	Pk	36.6	-63.4	-9.5	31.82	54	-22.18	74	-43.42
3	32.11675	65.3	Pk	37.2	-63.5	-9.5	29.5	54	-24.5	74	-44.5
4	32.1175	66.1	Pk	37.2	-63.6	-9.5	30.2	54	-23.8	74	-42.18
5	37.16125	65.48	Pk	38.5	-66.7	-9.5	27.78	54	-26.22	74	-46.22
6	37.16125	68.28	Pk	38.5	-66.7	-9.5	30.58	54	-23.42	74	-43.8

Pk - Peak detector

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

2. AC POWERLINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
	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.

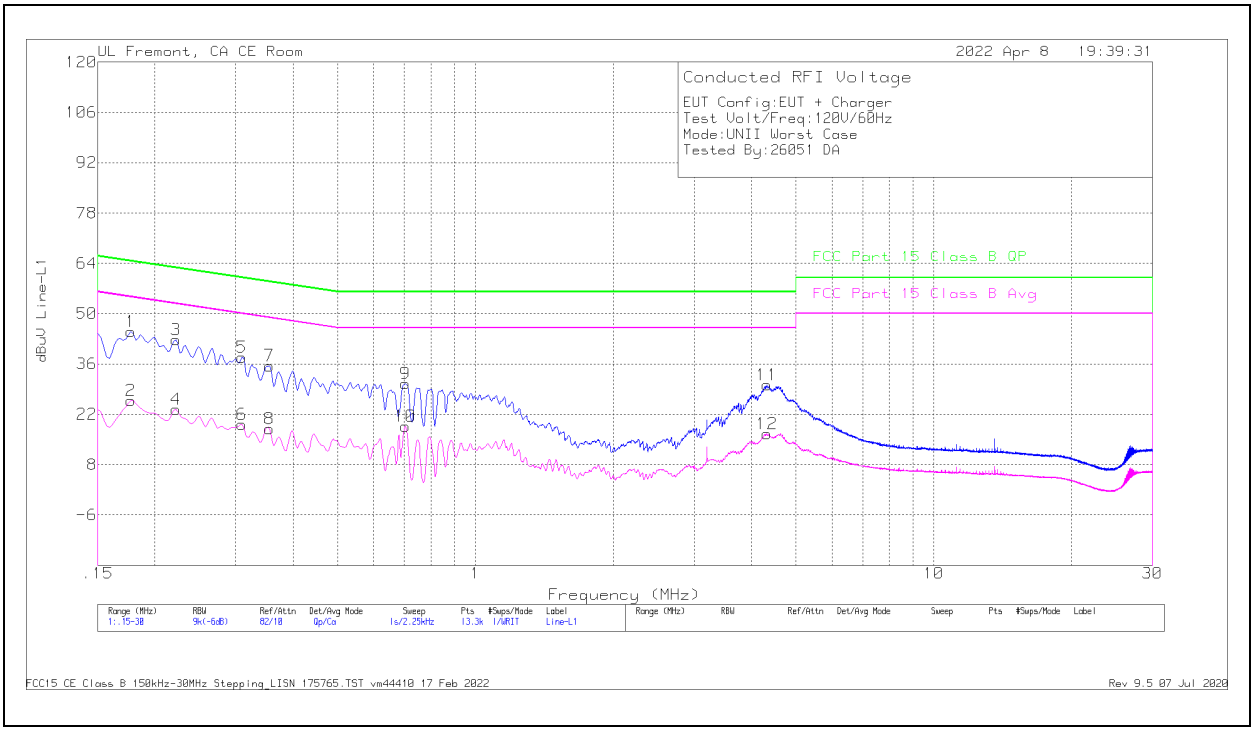
Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

2.1. AC POWER LINE WITH AC/DC ADAPTER

LINE 1 RESULTS

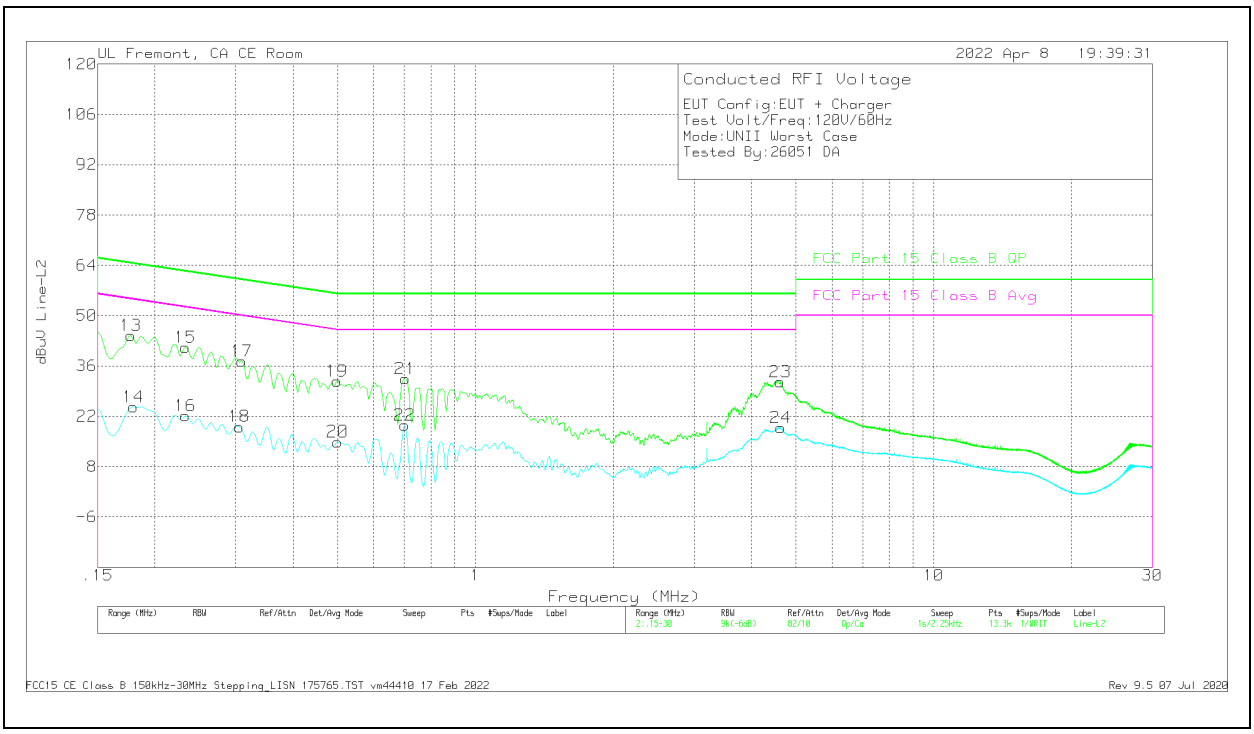


Range 1: Line-L1 .15 - 30MHz											
Marker	**Frequency (MHz)**	**Meter Reading (dBuV)**	**Det**	**175765 LISN L1 (dB)**	**C1&C3 cable (dB)**	**TekBox Limiter TBFL1 Model 207 (dB)**	**Corrected Reading dBuV**	**FCC Part 15 Class B QP dBuV**	**QP Margin (dB)**	**FCC Part 15 Class B Avg dBuV**	**Av(CISPR) Margin (dB)**
1	.177	35.57	Qp	.1	0	9.4	45.07	64.63	-19.56	-	-
2	.177	16.36	Ca	.1	0	9.4	25.86	-	-	54.63	-28.77
3	.222	33.41	Qp	0	0	9.3	42.71	62.74	-20.03	-	-
4	.222	14.06	Ca	0	0	9.3	23.36	-	-	52.74	-29.38
5	.30975	28.49	Qp	0	0	9.3	37.79	59.98	-22.19	-	-
6	.30975	9.93	Ca	0	0	9.3	19.23	-	-	49.98	-30.75
7	.35475	26.21	Qp	0	0	9.3	35.51	58.85	-23.34	-	-
8	.35475	8.75	Ca	0	0	9.3	18.05	-	-	48.85	-30.8
9	.7035	21.14	Qp	0	.1	9.3	30.54	56	-25.46	-	-
10	.7035	9.2	Ca	0	.1	9.3	18.6	-	-	46	-27.4
11	4.326	20.75	Qp	0	.1	9.3	30.15	56	-25.85	-	-
12	4.32375	7.15	Ca	0	.1	9.3	16.55	-	-	46	-29.45

Qp - Quasi-Peak detector
Ca - CISPR average detection

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

LINE 2 RESULTS



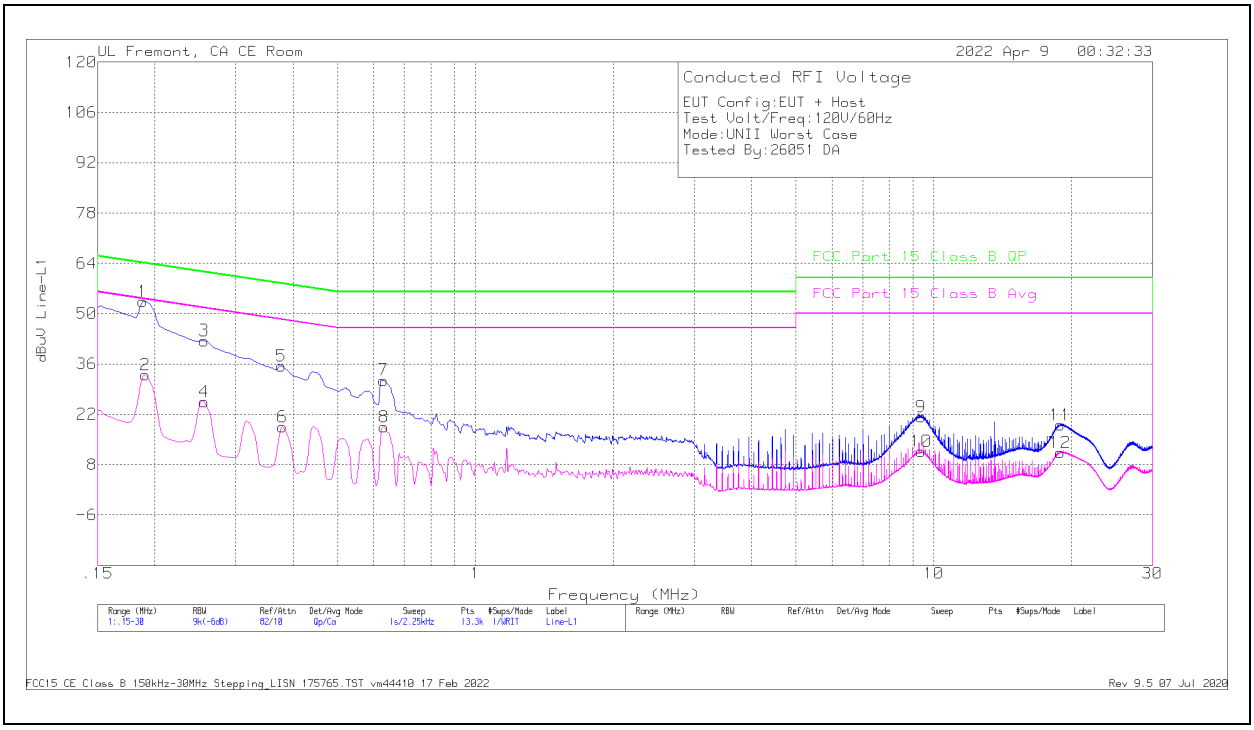
Range 2: Line-L2 .15 - 30MHz											
Marker	**Frequency (MHz)**	**Meter Reading (dBuV)**	**Det**	**175765 LISN L2 (dB)**	**C2&C3 cable (dB)**	**TekBox Limiter TBFL1 Model 207 (dB)**	**Corrected Reading dBuV**	**FCC Part 15 Class B QP dBuV**	**QP Margin (dB)**	**FCC Part 15 Class B Avg dBuV**	**Av(CISPR)Margin (dB)**
13	.177	35.01	Qp	.1	0	9.4	44.51	64.63	-20.12	-	-
14	.17925	15.16	Ca	.1	0	9.4	24.66	-	-	54.52	-29.86
15	.23325	31.91	Qp	0	0	9.3	41.21	62.33	-21.12	-	-
16	.23325	12.89	Ca	0	0	9.3	22.19	-	-	52.33	-30.14
17	.30975	27.97	Qp	0	0	9.3	37.27	59.98	-22.71	-	-
18	.30525	9.81	Ca	0	0	9.3	19.11	-	-	50.1	-30.99
19	.49875	22.47	Qp	0	0	9.3	31.77	56.02	-24.25	-	-
20	.501	5.62	Ca	0	0	9.3	14.92	-	-	46	-31.08
21	.7035	23.08	Qp	0	.1	9.3	32.48	56	-23.52	-	-
22	.70125	10.2	Ca	0	.1	9.3	19.6	-	-	46	-26.4
23	4.62975	22.12	Qp	0	.1	9.3	31.52	56	-24.48	-	-
24	4.632	9.45	Ca	0	.1	9.3	18.85	-	-	46	-27.15

Qp - Quasi-Peak detector
Ca - CISPR average detection

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

2.2. AC POWER LINE WITH LATOP

LINE 1 RESULTS

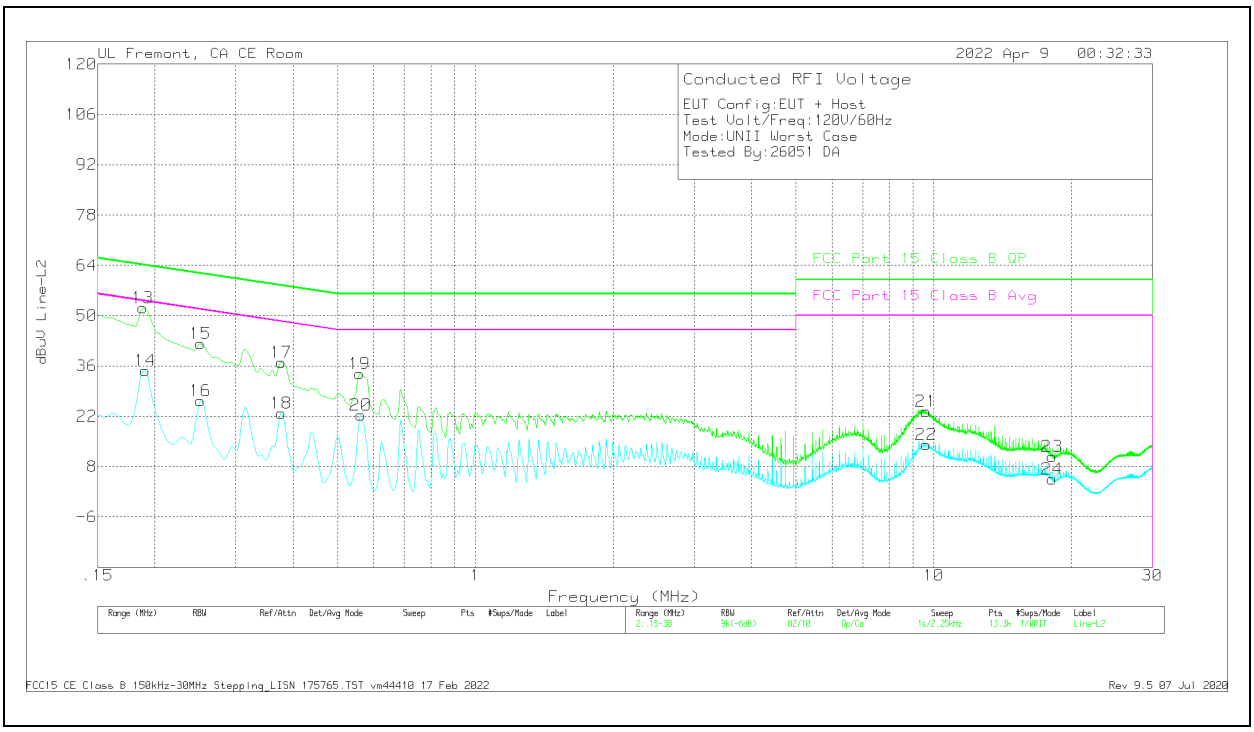


Range 1: Line-L1 .15 - 30MHz											
Marker	**Frequency (MHz)**	**Meter Reading (dBuV)**	**Det**	**175765 LISN L1 (dB)**	**C1&C3 cable (dB)**	**TekBox Limiter TBFL1 Model 207 (dB)**	**Corrected Reading dBuV**	**FCC Part 15 Class B QP dBuV**	**QP Margin (dB)**	**FCC Part 15 Class B Avg dBuV**	**Av(CISPR) Margin (dB)**
1	.18825	43.92	Qp	.1	0	9.4	53.42	64.11	-10.69	-	-
2	.1905	23.59	Ca	.1	0	9.3	32.99	-	-	54.01	-21.02
3	.25575	33.19	Qp	0	0	9.3	42.49	61.57	-19.08	-	-
4	.25575	16.2	Ca	0	0	9.3	25.5	-	-	51.57	-26.07
5	.37725	26.16	Qp	0	0	9.3	35.46	58.34	-22.88	-	-
6	.3795	9.21	Ca	0	0	9.3	18.51	-	-	48.29	-29.78
7	.62925	22.1	Qp	0	.1	9.3	31.5	56	-24.5	-	-
8	.6315	9.17	Ca	0	.1	9.3	18.57	-	-	46	-27.43
9	9.384	11.63	Qp	.1	.2	9.3	21.23	60	-38.77	-	-
10	9.384	2.14	Ca	.1	.2	9.3	11.74	-	-	50	-38.26
11	18.88575	9.42	Qp	.1	.2	9.3	19.02	60	-40.98	-	-
12	18.879	1.81	Ca	.1	.2	9.3	11.41	-	-	50	-38.59

Qp - Quasi-Peak detector
Ca - CISPR average detection

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175765 LISN L2 (dB)	C2&C3 cable (dB)	TekBox Limiter TBFL1 Model 207 (dB)	Corrected Reading dBuV	FCC Part 15 Class B QP dBuV	QP Margin (dB)	FCC Part 15 Class B Avg dBuV	Av(CISPR)Margin (dB)
13	.18825	42.71	Qp	.1	0	9.4	52.21	64.11	-11.9	-	-
14	.1905	25.26	Ca	.1	0	9.3	34.66	-	-	54.01	-19.35
15	.25125	32.88	Qp	0	0	9.3	42.18	61.72	-19.54	-	-
16	.25125	17.02	Ca	0	0	9.3	26.32	-	-	51.72	-25.4
17	.37725	27.75	Qp	0	0	9.3	37.05	58.34	-21.29	-	-
18	.37725	13.62	Ca	0	0	9.3	22.92	-	-	48.34	-25.42
19	.5595	24.61	Qp	0	0	9.3	33.91	56	-22.09	-	-
20	.56175	13.07	Ca	0	0	9.3	22.37	-	-	46	-23.63
21	9.62363	13.83	Qp	0	.2	9.3	23.33	60	-36.67	-	-
22	9.62138	4.59	Ca	0	.2	9.3	14.09	-	-	50	-35.91
23	18.12075	1.19	Qp	.1	.2	9.3	10.79	60	-49.21	-	-
24	18.12075	-5.09	Ca	.1	.2	9.3	4.51	-	-	50	-45.49

Qp - Quasi-Peak detector
Ca - CISPR average detection

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL LLC

3. SETUP PHOTOS:

Please refer to setup report 14040866-EP1

END OF TEST REPORT

UL LLC
47173 Benicia Street, Fremont, CA 94538; USA. TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL LLC