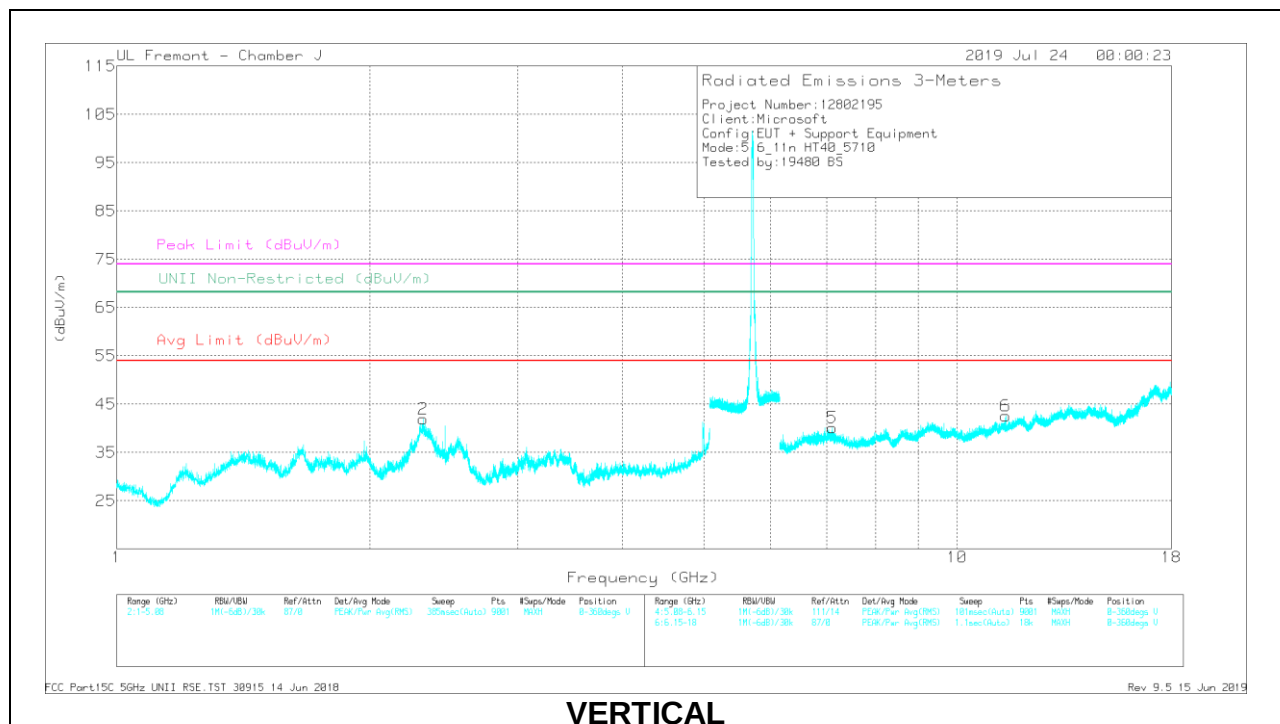
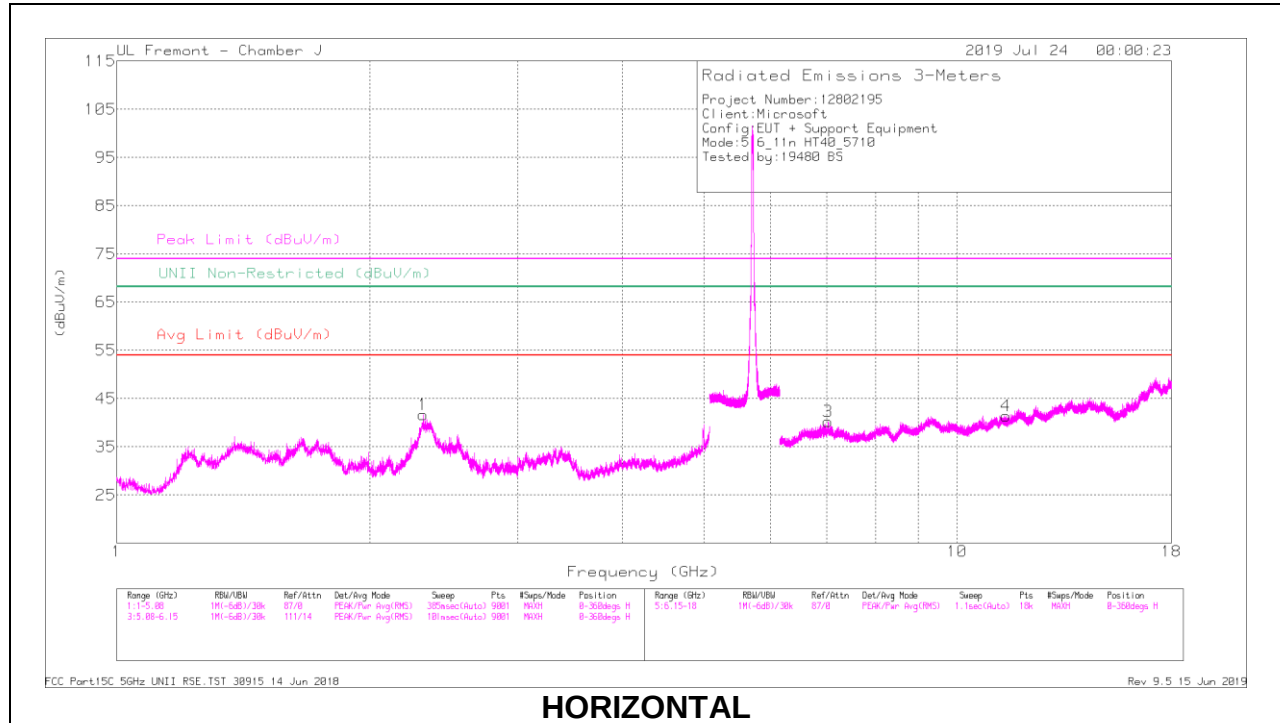


CHANNEL 142 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0189055 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.31493	57.3	PK-U	28.7	-35.2	0	50.8	-	-	74	-23.2	-	-	304	297	H
	* 2.3161	47.54	ADR	28.7	-35.2	.16	41.2	54	-12.8	-	-	-	-	304	297	H
2	* 2.31618	56.11	PK-U	28.7	-35.2	0	49.61	-	-	74	-24.39	-	-	24	103	V
	* 2.3162	46.45	ADR	28.7	-35.2	.16	40.11	54	-13.89	-	-	-	-	24	103	V
4	* 11.43244	34.04	PK-U	39.1	-22.9	0	50.24	-	-	74	-23.76	-	-	249	202	H
	* 11.43334	23.87	ADR	39.2	-22.9	.16	40.33	54	-13.67	-	-	-	-	249	202	H
3	7.02608	38.38	PK-U	37.5	-27.1	0	48.78	-	-	-	-	68.2	-19.42	242	374	H
6	* 11.42897	33.43	PK-U	39.1	-22.9	0	49.63	-	-	74	-24.37	-	-	163	199	V
	* 11.42945	23.41	ADR	39.1	-22.9	.16	39.77	54	-14.23	-	-	-	-	163	199	V
5	7.10223	37.41	PK-U	37.8	-27.4	0	47.81	-	-	-	-	68.2	-20.39	239	116	V

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

PK-U - U-NII: Maximum Peak

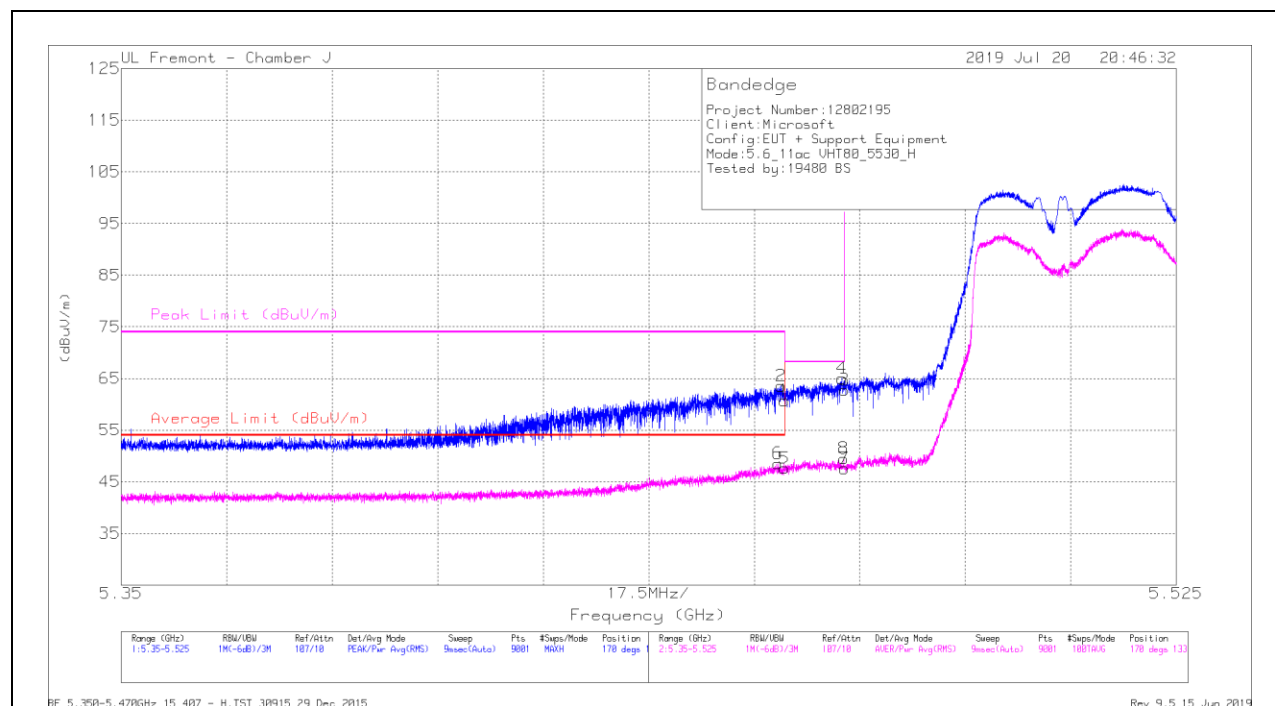
ADR - U-NII AD primary method, RMS average

9.1.12. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

2TX Chain 1 + Chain 2 CDD MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Trace Markers

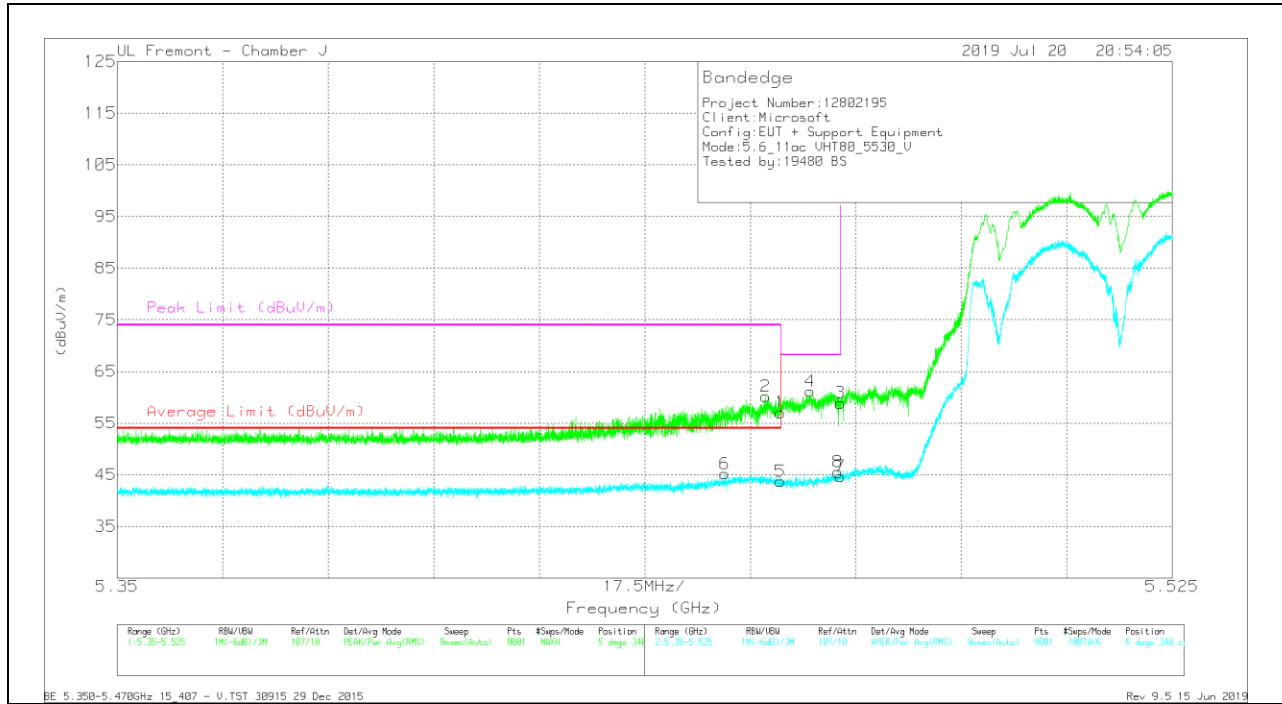
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0189055 (dB/m)	Amp/Cbl/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	47.04	Pk	34.2	-20.5	0	60.74	-	-	74	-13.26	170	133	H
2	* 5.45947	49.85	Pk	34.2	-20.5	0	63.55	-	-	74	-10.45	170	133	H
3	5.46999	49.08	Pk	34.2	-20.5	0	62.78	-	-	68.2	-5.42	170	133	H
4	5.46958	51.32	Pk	34.2	-20.5	0	65.02	-	-	68.2	-3.18	170	133	H
5	* 5.46	33.59	RMS	34.2	-20.5	.34	47.63	54	-6.37	-	-	170	133	H
6	* 5.45895	34.5	RMS	34.2	-20.5	.34	48.54	54	-5.46	-	-	170	133	H
7	5.46999	33.55	RMS	34.2	-20.5	.34	47.59	-	-	-	-	170	133	H
8	5.46981	35.46	RMS	34.2	-20.5	.34	49.5	-	-	-	-	170	133	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



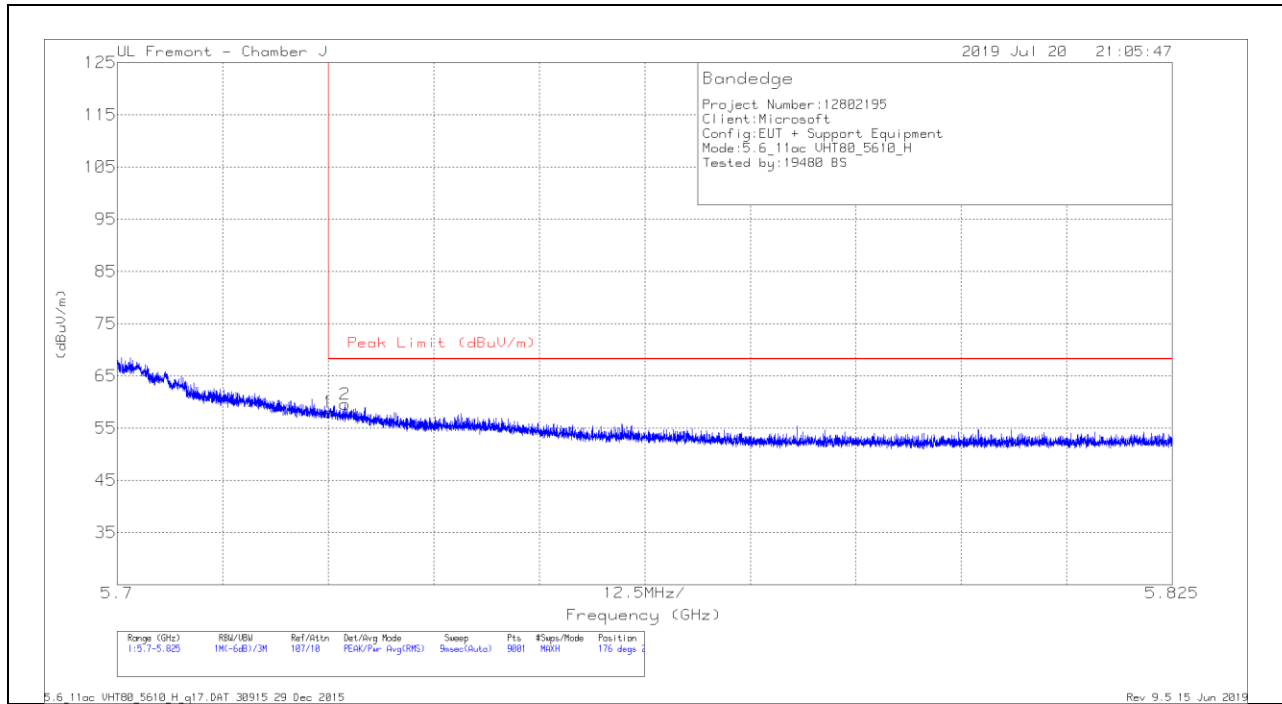
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0189055 (dB/m)	Amp/CbI/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*5.46	43.38	Pk	34.2	-20.5	0	57.08	-	-	74	-16.92	5	340	V
2	*5.45755	46.48	Pk	34.2	-20.5	0	60.18	-	-	74	-13.82	5	340	V
3	5.46999	45.19	Pk	34.2	-20.5	0	58.89	-	-	68.2	-9.31	5	340	V
4	5.46493	47.45	Pk	34.2	-20.5	0	61.15	-	-	68.2	-7.05	5	340	V
5	*5.46	29.7	RMS	34.2	-20.5	.34	43.74	54	-10.26	-	-	5	340	V
6	*5.45078	31.15	RMS	34.2	-20.5	.34	45.19	54	-8.81	-	-	5	340	V
7	5.46999	30.66	RMS	34.2	-20.5	.34	44.7	-	-	-	-	5	340	V
8	5.4695	31.48	RMS	34.2	-20.5	.34	45.52	-	-	-	-	5	340	V

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

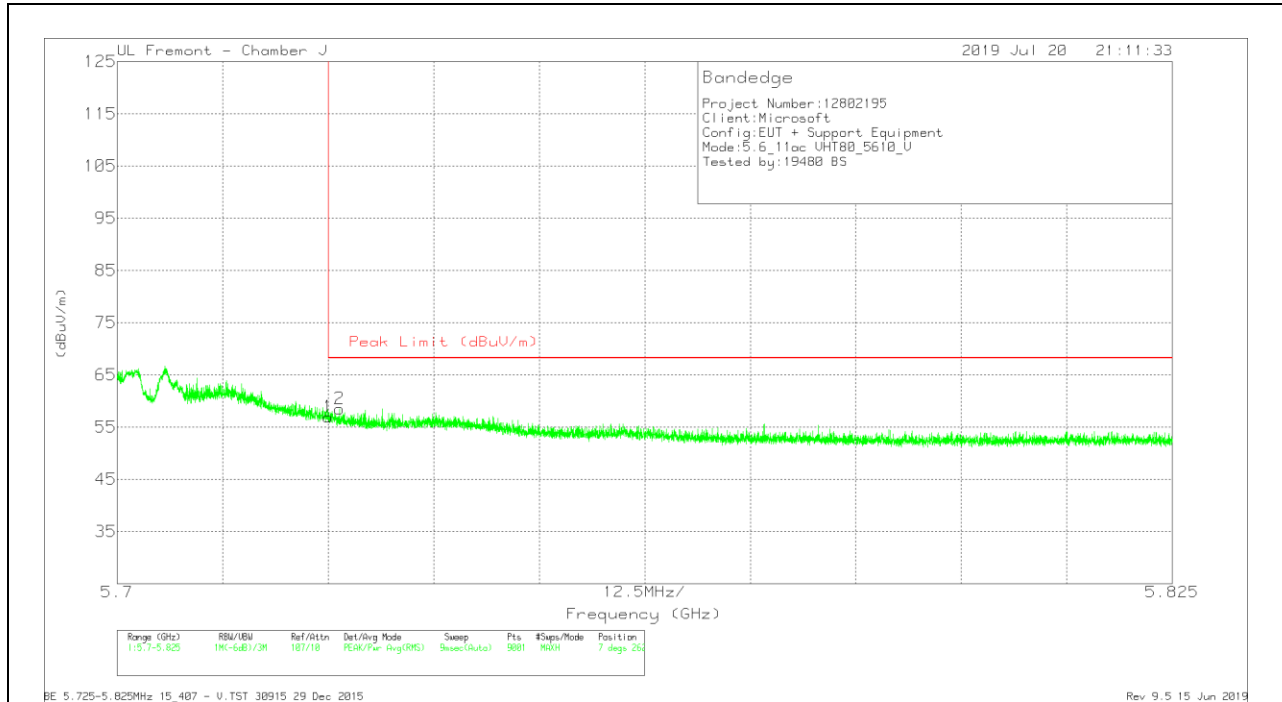


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0189055 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	44.3	Pk	34.1	-20.4	58	68.2	-10.2	176	246	H
2	5.72699	45.84	Pk	34.1	-20.4	59.54	68.2	-8.66	176	246	H

Pk - Peak detector

VERTICAL RESULT



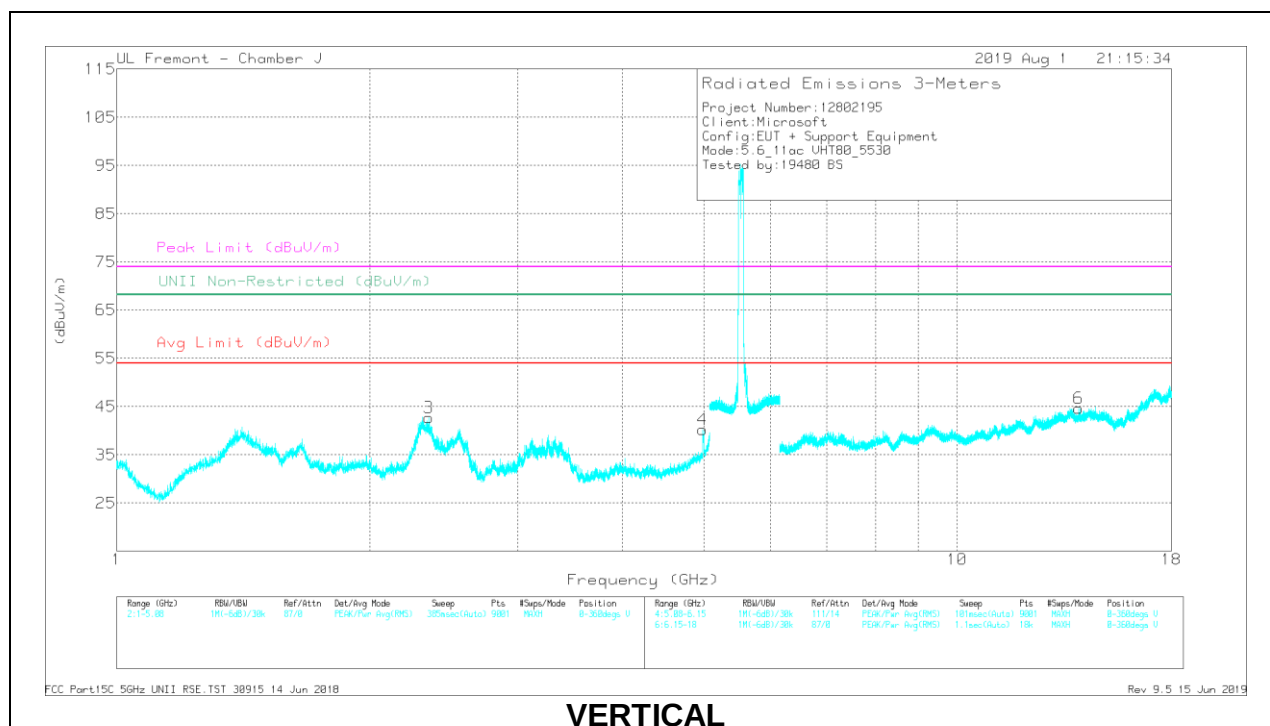
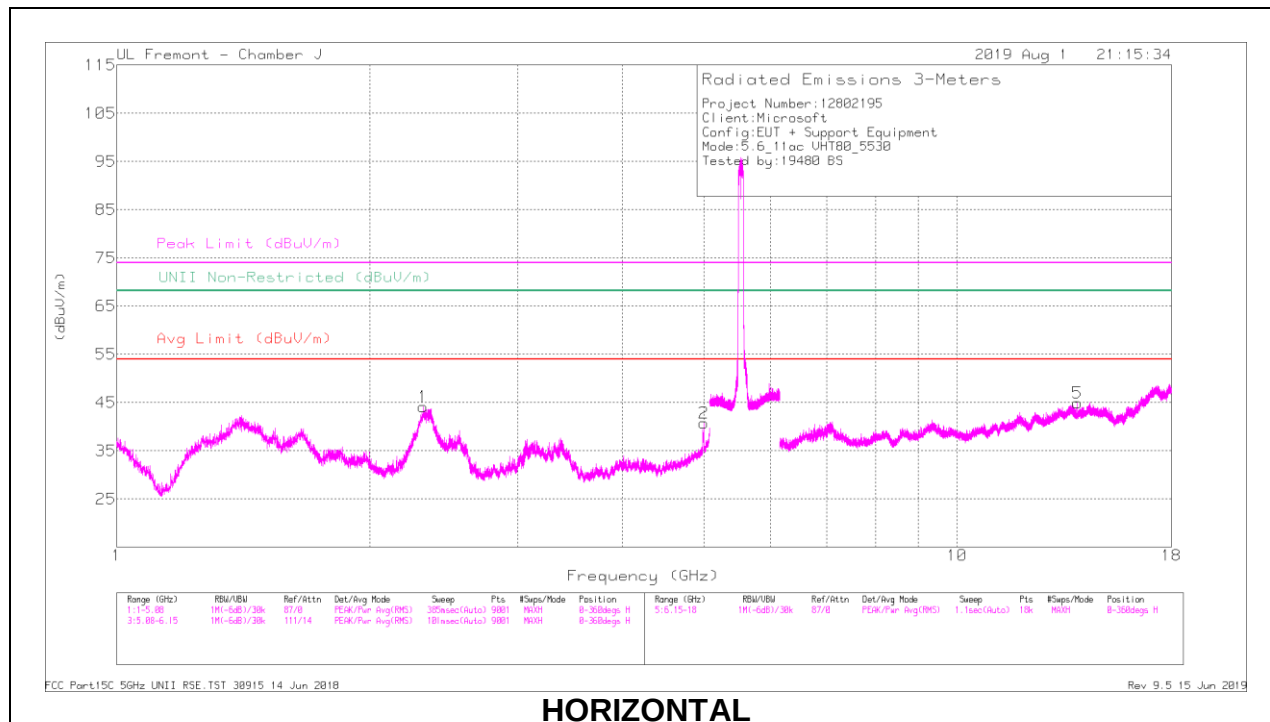
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0189055 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	43.25	Pk	34.1	-20.4	56.95	68.2	-11.25	7	262	V
2	5.72632	44.81	Pk	34.1	-20.4	58.51	68.2	-9.69	7	262	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

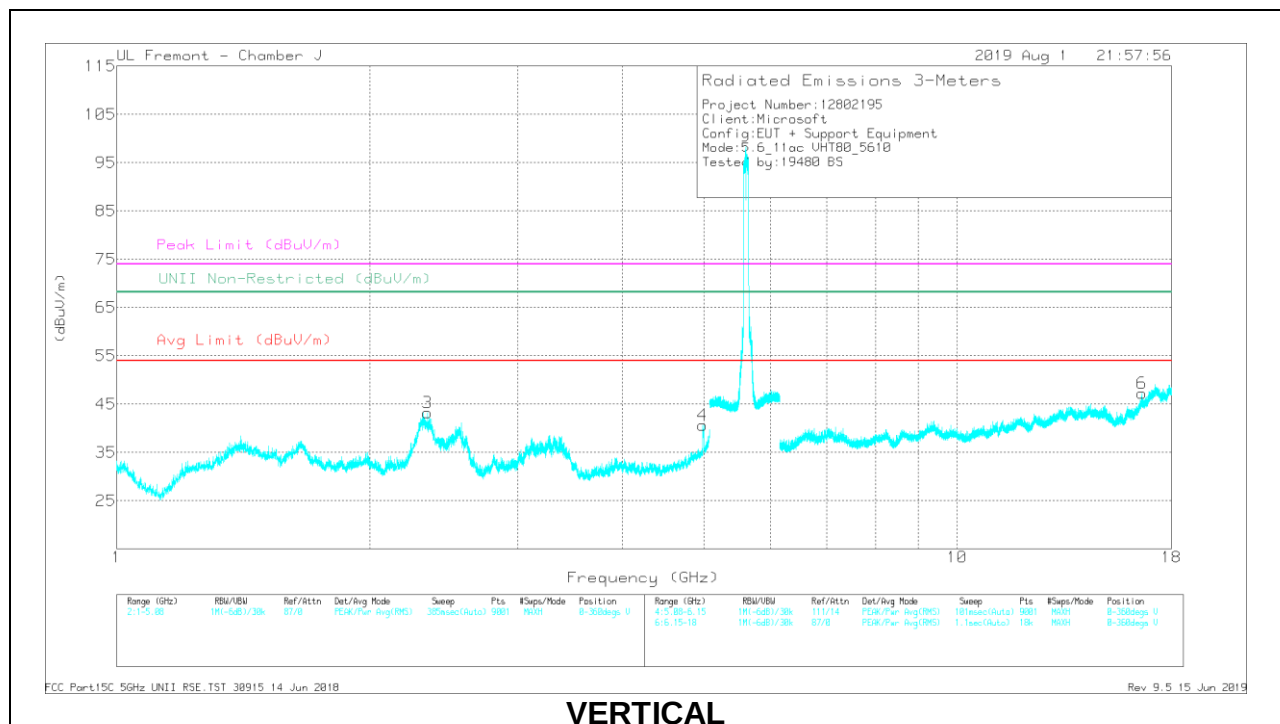
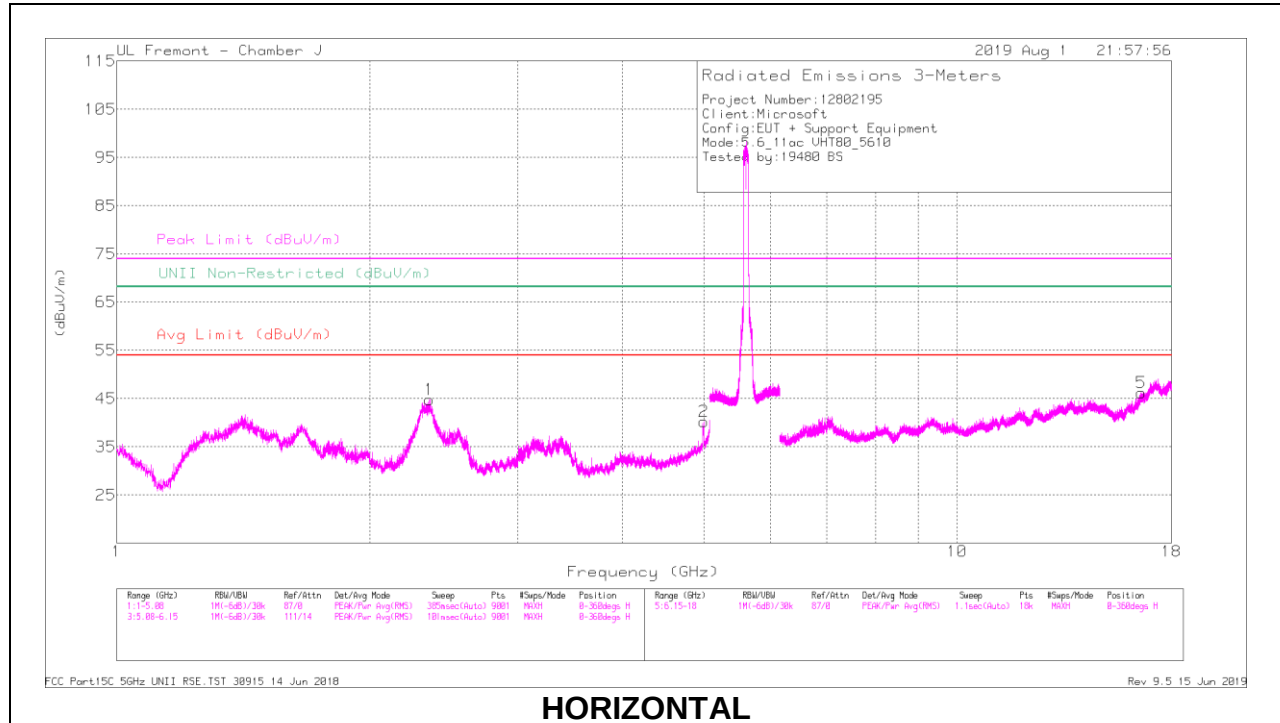
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0189055 (dB/m)	Ampl/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.31302	58.62	PK-U	28.7	-35.2	0	52.12	-	-	74	-21.88	-	-	229	113	H
	* 2.31331	48.62	ADR	28.7	-35.2	.34	42.46	54	-11.54	-	-	-	-	229	113	H
2	* 4.99559	45.19	PK-U	35.1	-29.5	0	50.79	-	-	74	-23.21	-	-	271	185	H
	* 4.99605	32.58	ADR	35.1	-29.4	.34	38.62	54	-15.38	-	-	-	-	271	185	H
3	* 2.35314	57.24	PK-U	29.1	-35.2	0	51.14	-	-	74	-22.86	-	-	140	190	V
	* 2.3512	46.66	ADR	29.1	-35.2	.34	40.9	54	-13.1	-	-	-	-	140	190	V
4	* 4.98155	47.97	PK-U	35	-29.5	0	53.47	-	-	74	-20.53	-	-	147	200	V
	* 4.98427	33.92	ADR	35	-29.5	.34	39.76	54	-14.24	-	-	-	-	147	200	V
5	13.91003	30.66	PK-U	40.7	-21	0	50.36	-	-	-	-	68.2	-17.84	114	144	H
6	13.95198	30.55	PK-U	40.7	-20.6	0	50.65	-	-	-	-	68.2	-17.55	350	105	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

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

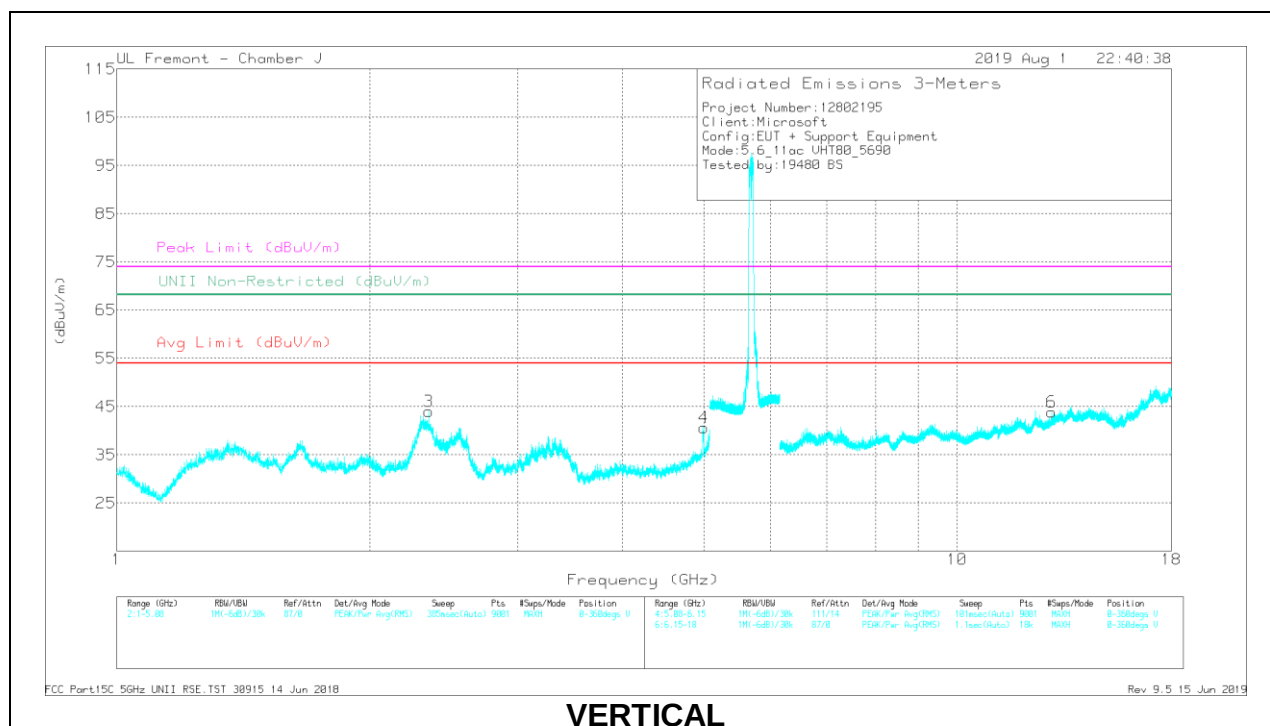
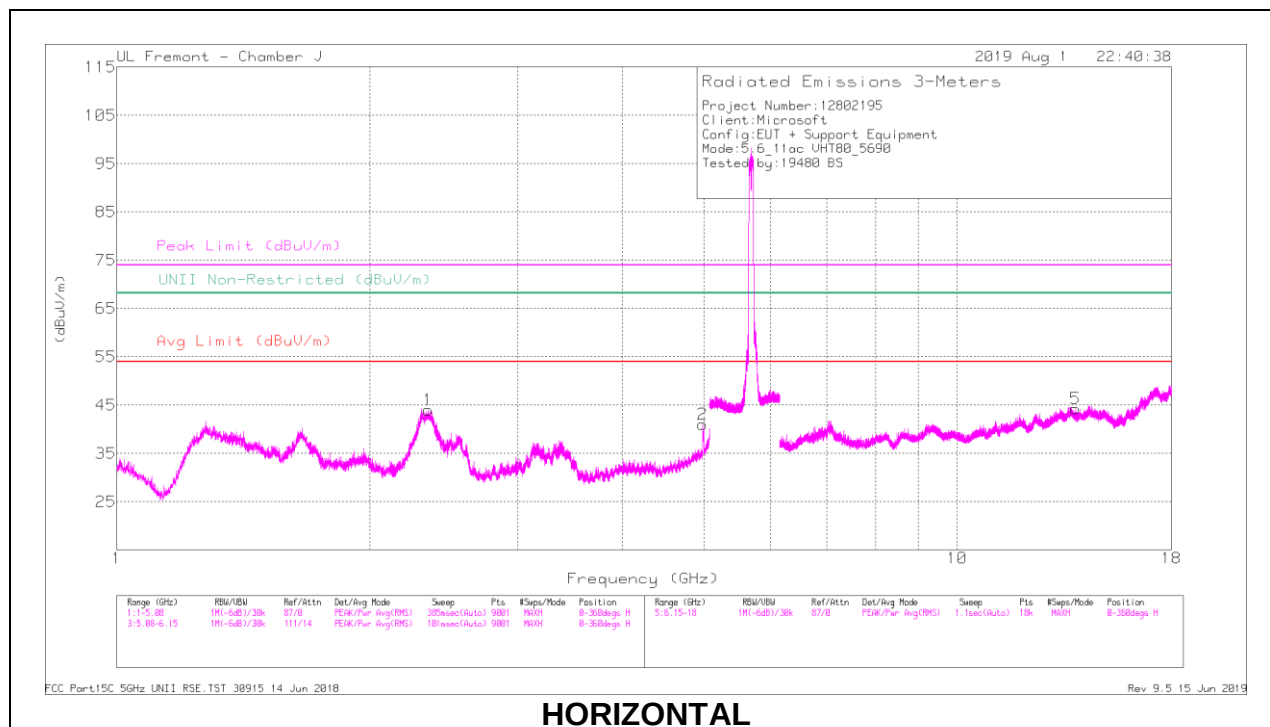
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0189055 (dB/m)	Ampl/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.35613	59.98	PK-U	29.2	-35.2	0	53.98	-	-	74	-20.02	-	-	176	323	H
	* 2.35623	50.19	ADR	29.2	-35.2	.34	44.53	54	-9.47	-	-	-	-	176	323	H
2	* 4.99585	45.34	PK-U	35.1	-29.4	0	51.04	-	-	74	-22.96	-	-	287	198	H
	* 4.99561	33.88	ADR	35.1	-29.5	.34	39.82	54	-14.18	-	-	-	-	287	198	H
3	* 2.34154	58.18	PK-U	29	-35.2	0	51.98	-	-	74	-22.02	-	-	186	126	V
	* 2.34438	48.42	ADR	29.1	-35.2	.34	42.66	54	-11.34	-	-	-	-	186	126	V
4	* 4.98882	49.89	PK-U	35	-29.5	0	55.39	-	-	74	-18.61	-	-	146	164	V
	* 4.98739	37.06	ADR	35	-29.5	.34	42.9	54	-11.1	-	-	-	-	146	164	V
5	16.57841	30.57	PK-U	41.3	-18.9	0	52.97	-	-	-	-	68.2	-15.23	301	209	H
6	16.60161	29.95	PK-U	41.5	-19	0	52.45	-	-	-	-	68.2	-15.75	151	174	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

CHANNEL 138 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0189055 (dB/m)	Ampl/Cbl/Filtr/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	* 2.34622	59.45	PK-U	29.1	-35.2	0	53.35	-	-	74	-20.65	-	-	236	187	H
	* 2.34748	49.11	ADR	29.1	-35.2	.34	43.35	54	-10.65	-	-	-	-	236	187	H
2	* 4.99323	46.26	PK-U	35	-29.5	0	51.76	-	-	74	-22.24	-	-	269	191	H
	* 4.99194	34.17	ADR	35	-29.5	.34	40.01	54	-13.99	-	-	-	-	269	191	H
3	* 2.34932	58.24	PK-U	29.1	-35.2	0	52.14	-	-	74	-21.86	-	-	185	111	V
	* 2.35148	47.62	ADR	29.1	-35.2	.34	41.86	54	-12.14	-	-	-	-	185	111	V
4	* 4.98655	50.38	PK-U	35	-29.5	0	55.88	-	-	74	-18.12	-	-	145	194	V
	* 4.99127	37.52	ADR	35	-29.5	.34	43.36	54	-10.64	-	-	-	-	145	194	V
5	13.84968	31.68	PK-U	40.7	-21.3	0	51.08	-	-	-	-	68.2	-17.12	289	121	H
6	12.97327	31.25	PK-U	40.3	-21.7	0	49.85	-	-	-	-	68.2	-18.35	186	247	V

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

PK-U - U-NII: Maximum Peak

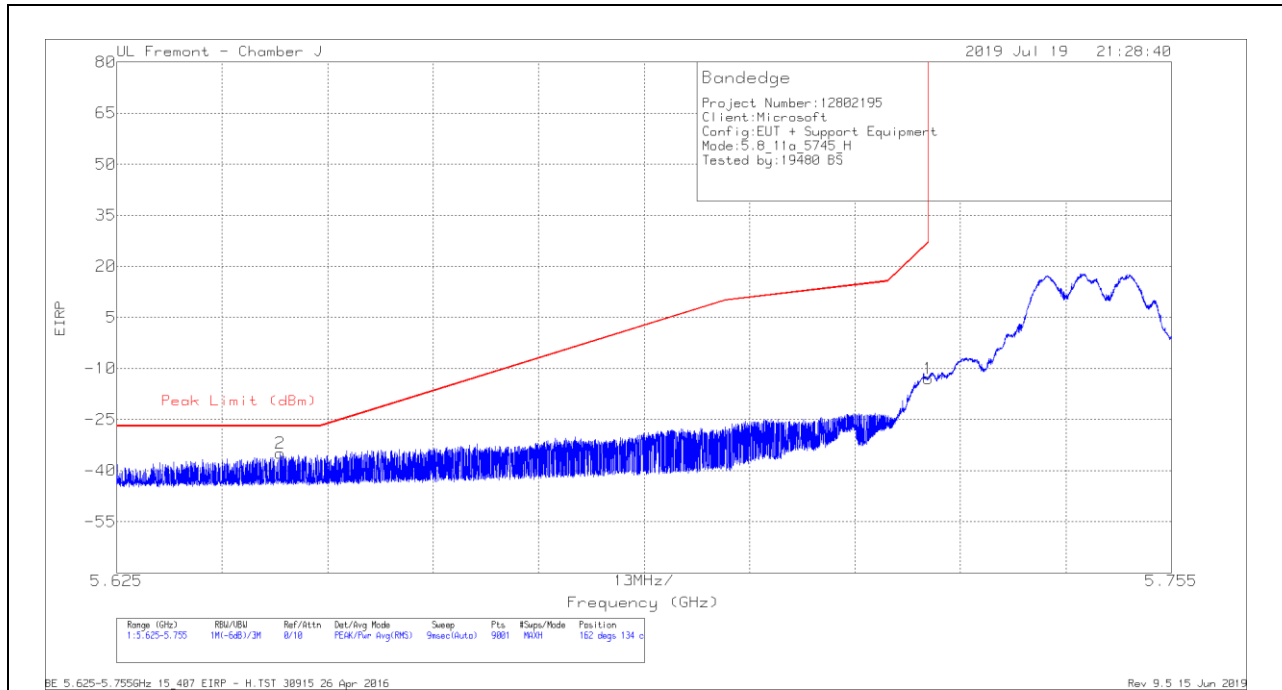
ADR - U-NII AD primary method, RMS average

9.1.13. TX ABOVE 1 GHz 802.11a MODE IN THE 5.8 GHz BAND

2TX Chain 1 + Chain 2 CDD MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

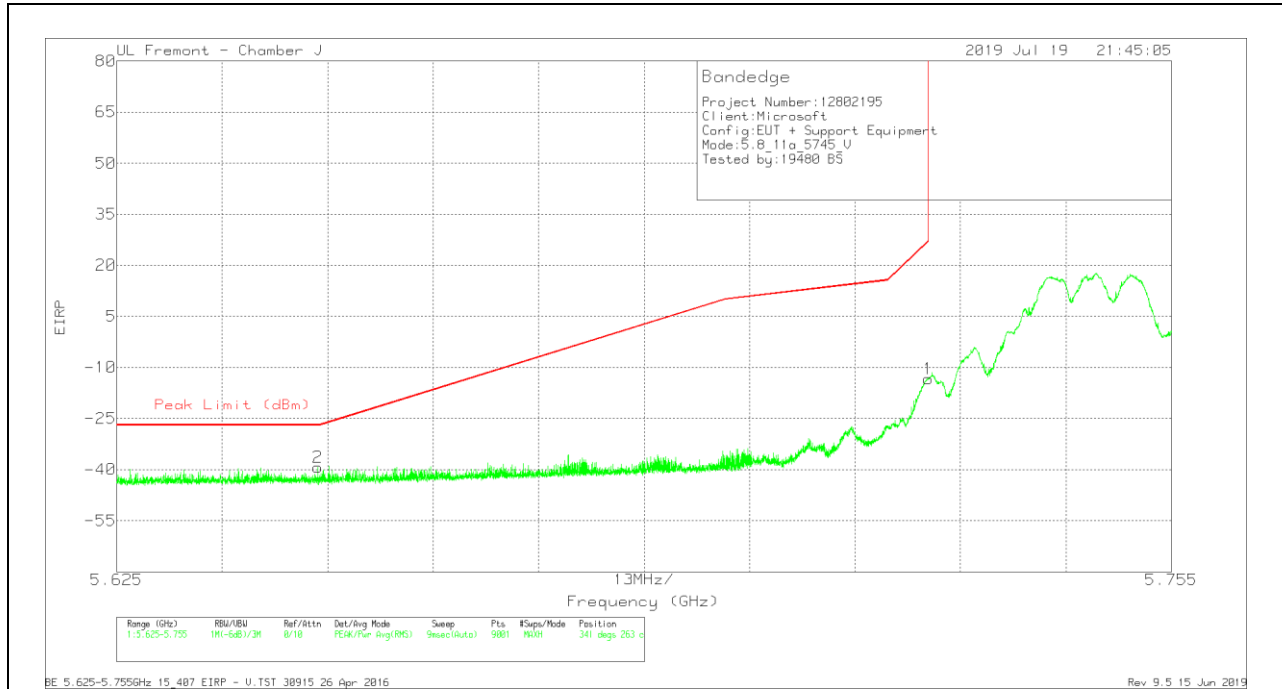


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF PRE0189055 (dB/m)	Amp/Cbll/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-38.55	Pk	34.1	-20.4	11.8	-13.05	26.99	-40.04	162	134	H
2	5.64516	-60.3	Pk	34	-20.4	11.8	-34.9	-27	-7.9	162	134	H

Pk - Peak detector

VERTICAL RESULT



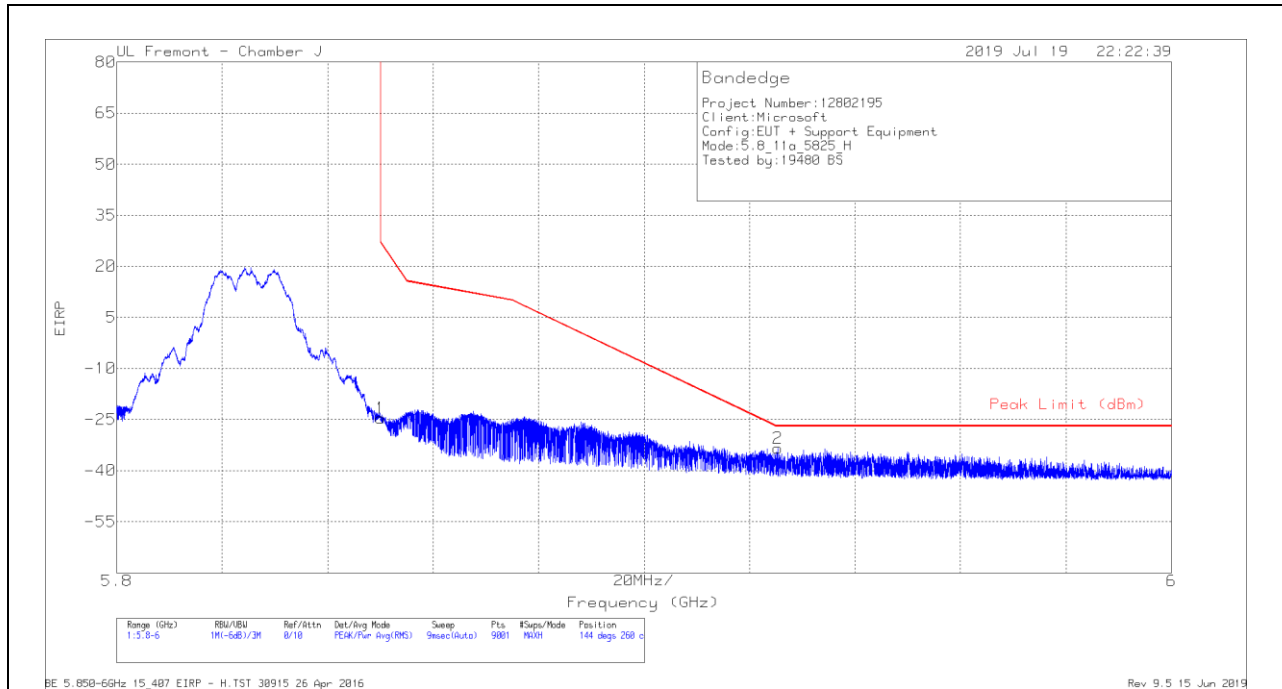
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF PRE0189055 (dB/m)	Amp/Cb/Filt/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-38.85	Pk	34.1	-20.4	11.8	-13.35	26.99	-40.34	341	263	V
2	5.64977	-64.8	Pk	34	-20.4	11.8	-39.4	-27	-12.4	341	263	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

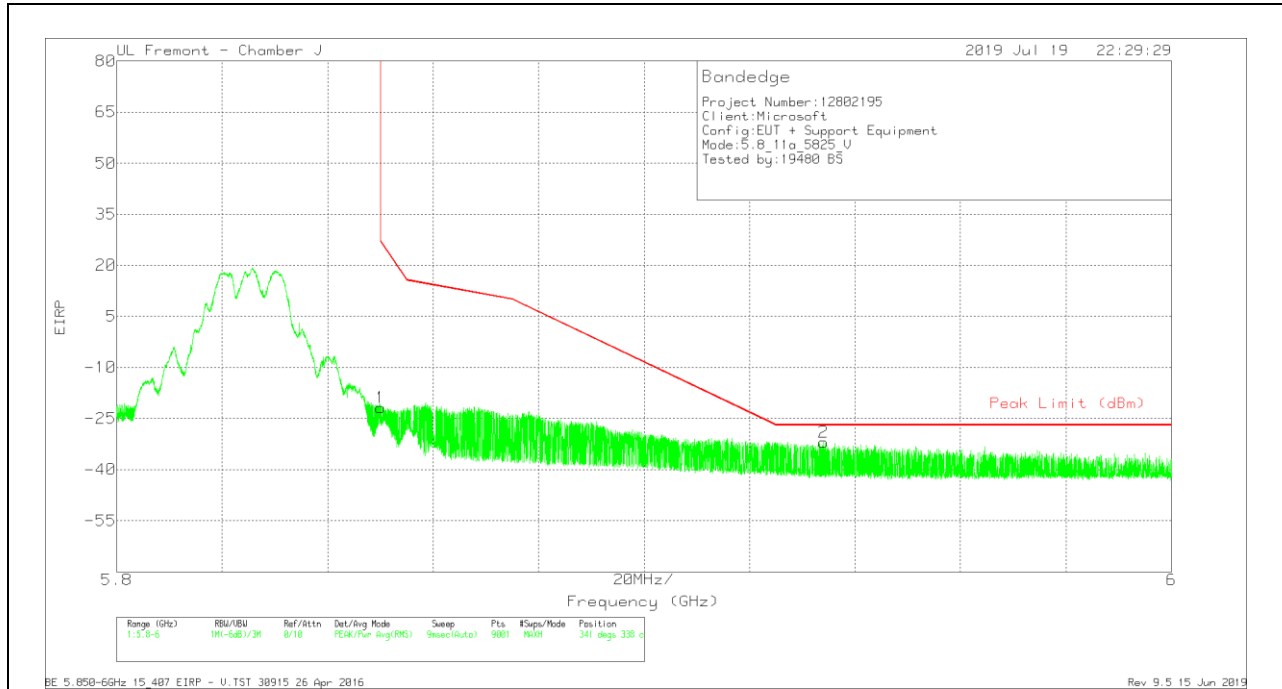


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF PRE0189055 (dB/m)	Amp/Cbll/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-51.16	Pk	34.6	-19.9	11.8	-24.66	26.95	-51.61	144	260	H
2	5.92533	-60.81	Pk	35.2	-19.7	11.8	-33.51	-27	-6.51	144	260	H

Pk - Peak detector

VERTICAL RESULT



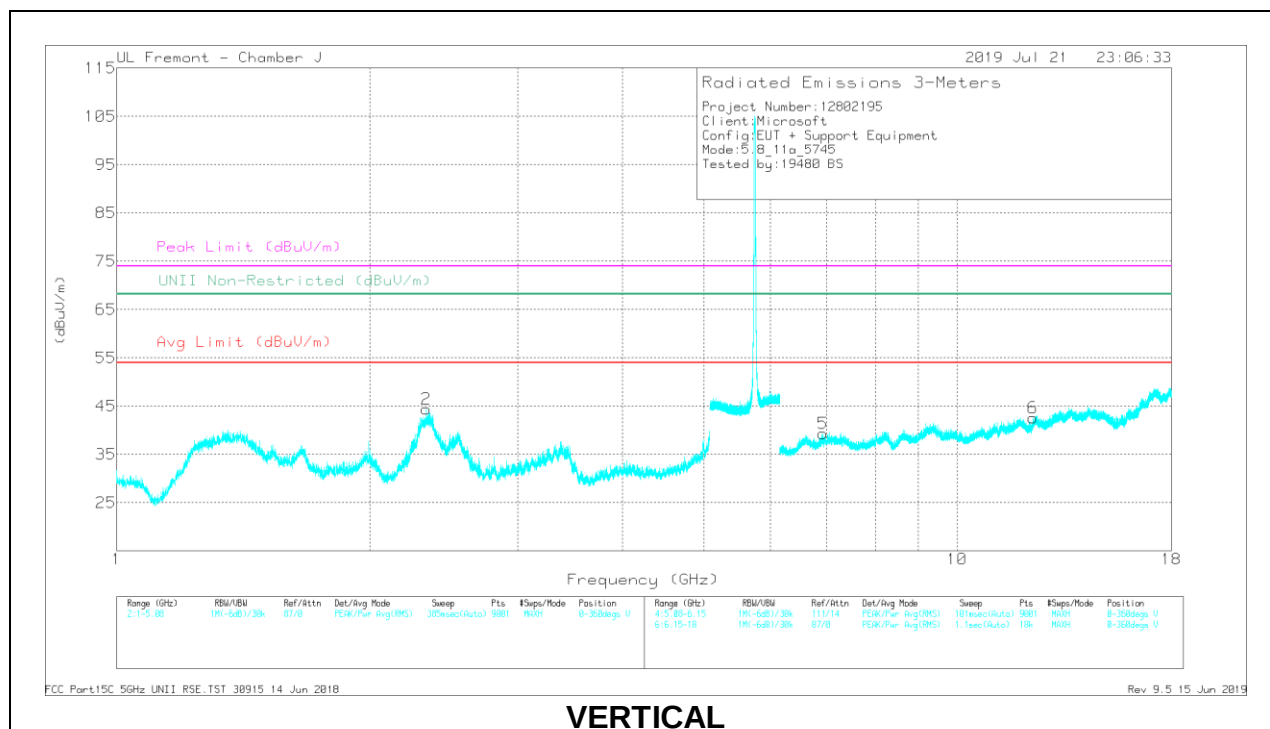
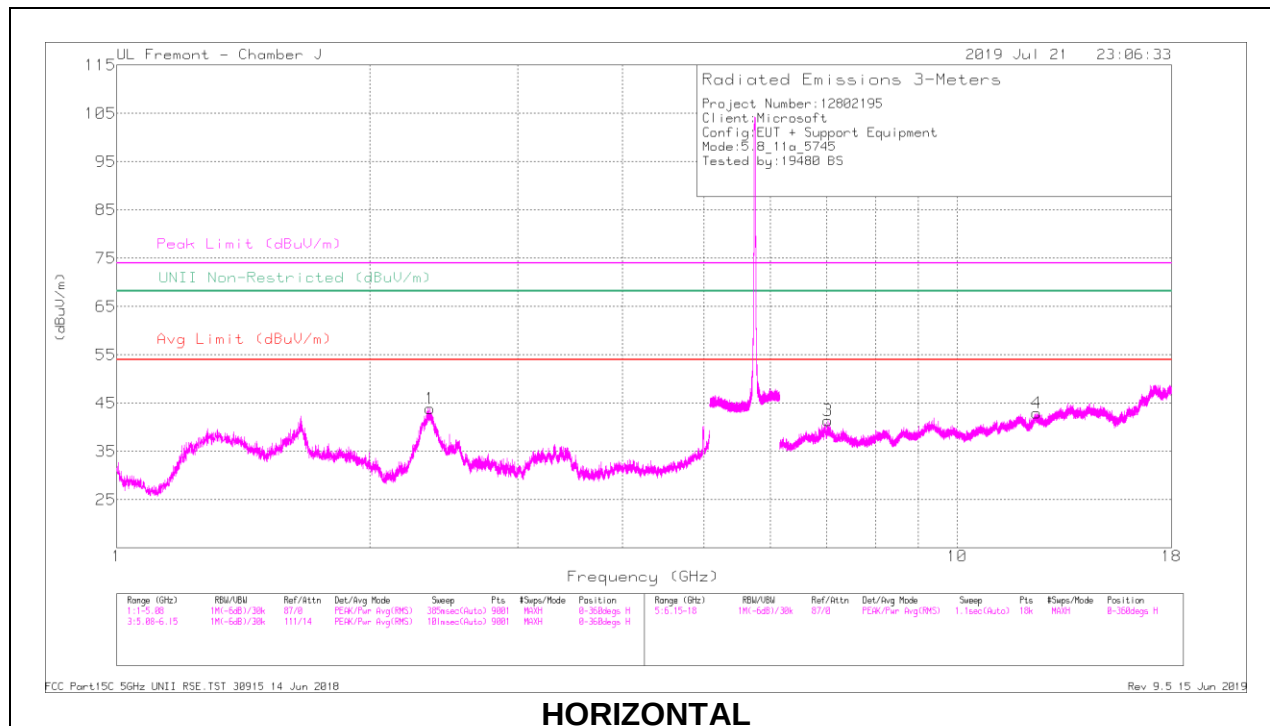
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF PRE0189055 (dB/m)	Amp/Cb/Filt/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-48.32	Pk	34.6	-19.9	11.8	-21.82	26.95	-48.77	341	338	V
2	5.93404	-59.24	Pk	35.2	-19.7	11.8	-31.94	-27	-4.94	341	338	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

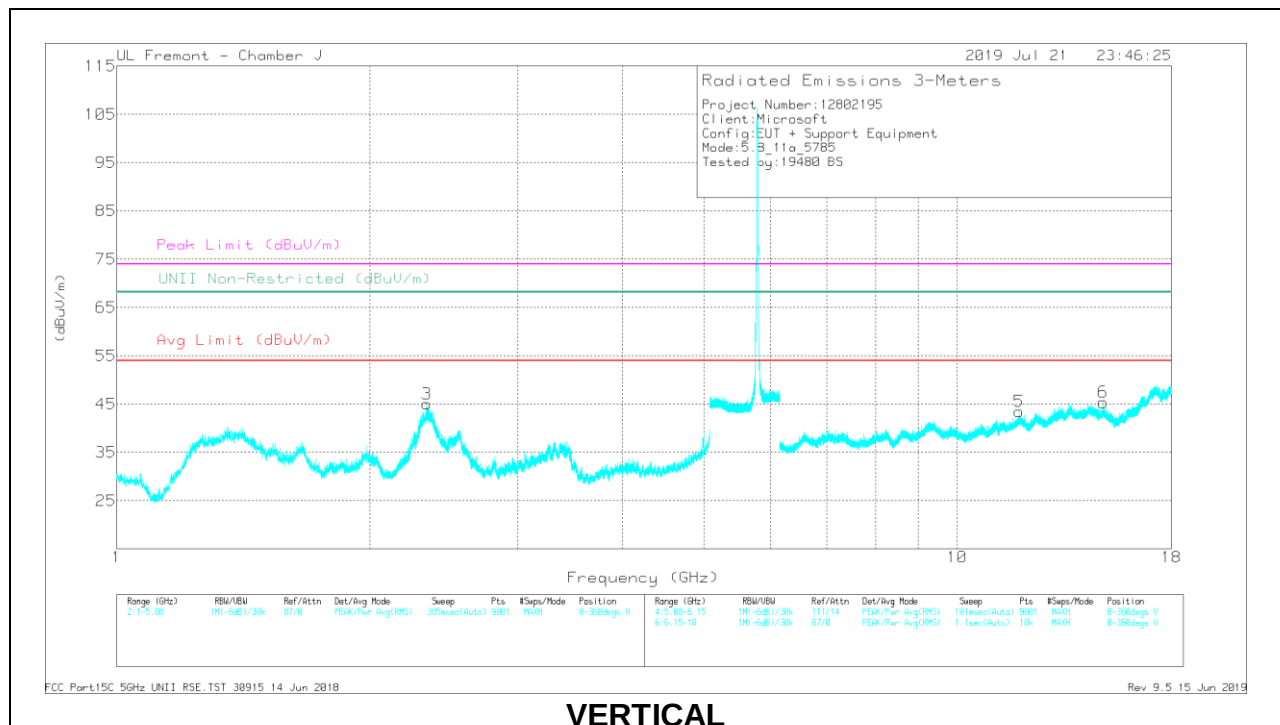
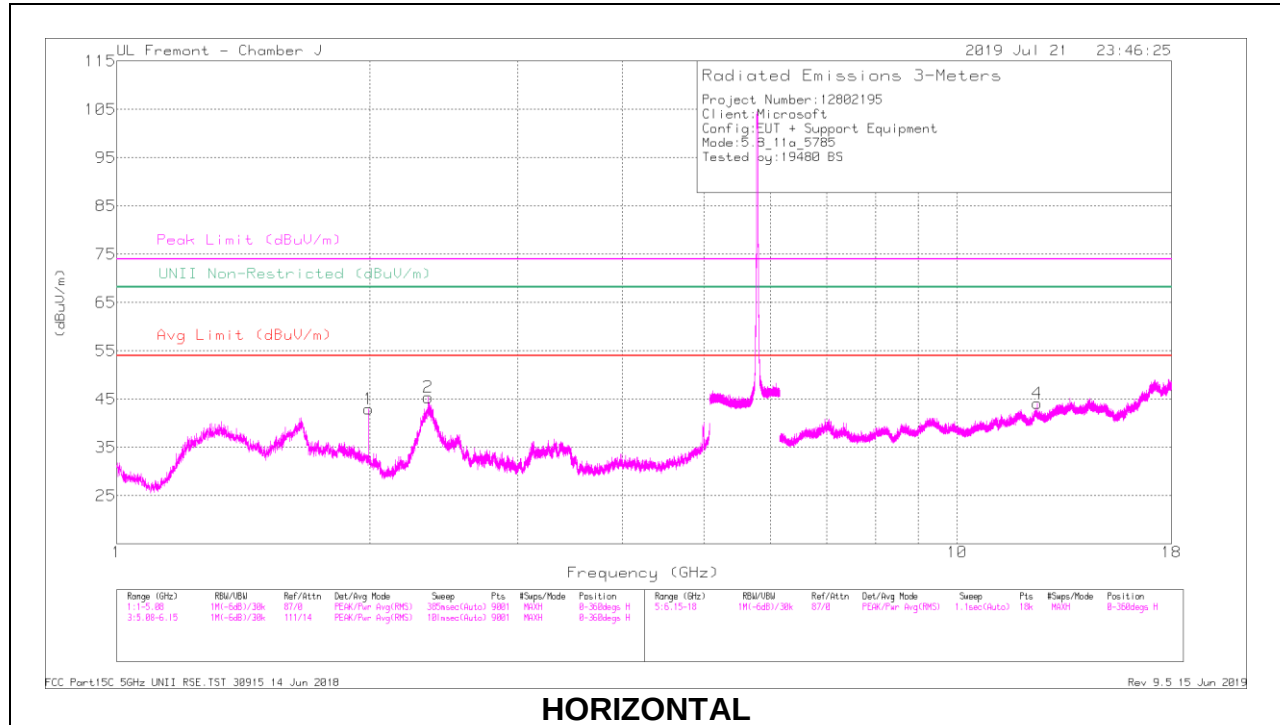
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0189055 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.36062	58.89	PK-U	29.2	-35.2	0	52.89	-	-	74	-21.11	-	-	190	121	H
	* 2.35953	49.58	ADR	29.2	-35.2	0	43.58	54	-10.42	-	-	-	-	190	121	H
2	* 2.3365	59.02	PK-U	29	-35.2	0	52.82	-	-	74	-21.18	-	-	19	118	V
	* 2.33661	48.56	ADR	29	-35.2	0	42.36	54	-11.64	-	-	-	-	19	118	V
3	7.01977	39.75	PK-U	37.4	-27.1	0	50.05	-	-	-	-	68.2	-18.15	244	188	H
4	* 12.44665	31.43	PK-U	40.4	-22.2	0	49.63	-	-	74	-24.37	-	-	174	279	H
	* 12.44699	21.97	ADR	40.4	-22.1	0	40.27	54	-13.73	-	-	-	-	174	279	H
5	6.93035	36.25	PK-U	37.2	-27.1	0	46.35	-	-	-	-	68.2	-21.85	346	176	V
6	* 12.30549	31.81	PK-U	40.2	-22.1	0	49.91	-	-	74	-24.09	-	-	220	115	V
	* 12.30393	21.44	ADR	40.2	-22.1	0	39.54	54	-14.46	-	-	-	-	220	115	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

MID CHANNEL RESULTS



RADIATED EMISSIONS

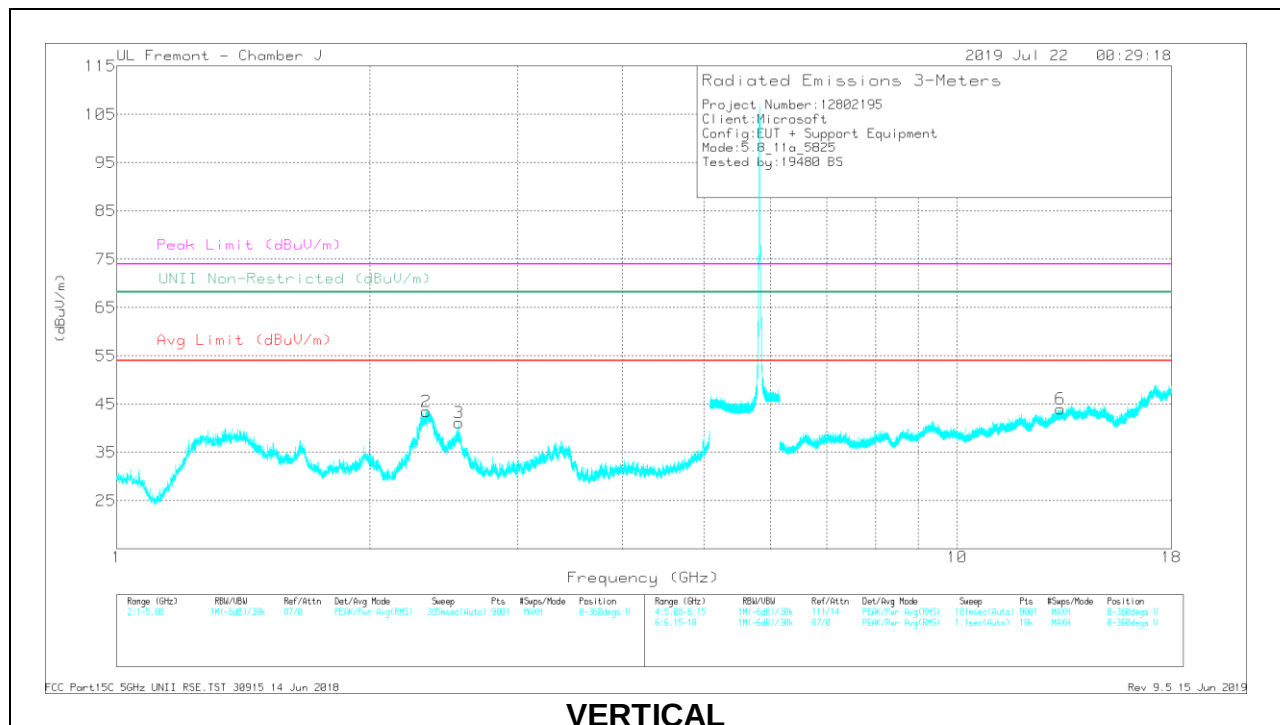
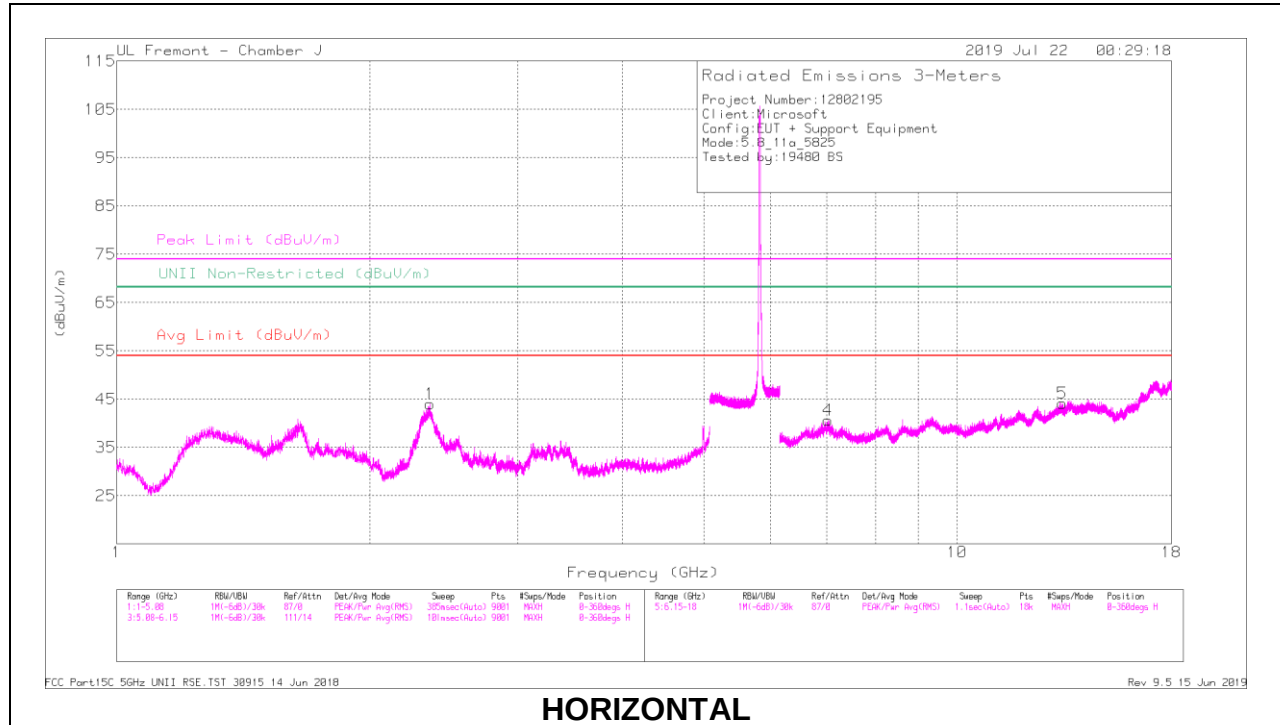
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0189055 (dB/m)	Amp/Cbl/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.9927	51.73	PK-U	27.8	-35.4	0	44.13	-	-	-	-	68.2	-24.07	240	183	H
2	* 2.34679	58.19	PK-U	29.1	-35.2	0	52.09	-	-	74	-21.91	-	-	197	198	H
	* 2.34825	48.84	ADR	29.1	-35.2	0	42.74	54	-11.26	-	-	-	-	197	198	H
3	* 2.33934	58.91	PK-U	29	-35.2	0	52.71	-	-	74	-21.29	-	-	17	102	V
	* 2.33982	48.88	ADR	29	-35.2	0	42.68	54	-11.32	-	-	-	-	17	102	V
4	* 12.45461	31.82	PK-U	40.4	-22.2	0	50.02	-	-	74	-23.98	-	-	151	208	H
	* 12.45461	21.8	ADR	40.4	-22.2	0	40	54	-14	-	-	-	-	151	208	H
5	* 11.8656	31.83	PK-U	39.9	-22.8	0	48.93	-	-	74	-25.07	-	-	202	139	V
	* 11.86396	21.81	ADR	39.9	-22.8	0	38.91	54	-15.09	-	-	-	-	202	139	V
6	14.92422	30.92	PK-U	40.5	-20.3	0	51.12	-	-	-	-	68.2	-17.08	275	302	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

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0189055 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.35709	59.56	PK-U	29.2	-35.2	0	53.56	-	-	74	-20.44	-	-	187	118	H
	* 2.35772	49.37	ADR	29.2	-35.2	0	43.37	54	-10.63	-	-	-	-	187	118	H
2	* 2.33319	58.17	PK-U	28.9	-35.2	0	51.87	-	-	74	-22.13	-	-	17	120	V
	* 2.33232	48.63	ADR	28.9	-35.2	0	42.33	54	-11.67	-	-	-	-	17	120	V
3	2.55265	53.06	PK-U	30.3	-35	0	48.36	-	-	-	-	68.2	-19.84	211	217	V
4	7.03017	39.36	PK-U	37.5	-27.1	0	49.76	-	-	-	-	68.2	-18.44	244	195	H
5	* 13.35033	31.91	PK-U	41.2	-21.4	0	51.71	-	-	74	-22.29	-	-	188	175	H
	* 13.3475	21.02	ADR	41.2	-21.3	0	40.92	54	-13.08	-	-	-	-	188	175	H
6	* 13.26995	30.27	PK-U	41.4	-21.4	0	50.27	-	-	74	-23.73	-	-	9	133	V
	* 13.27057	21.42	ADR	41.4	-21.4	0	41.42	54	-12.58	-	-	-	-	9	133	V

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

PK-U - U-NII: Maximum Peak

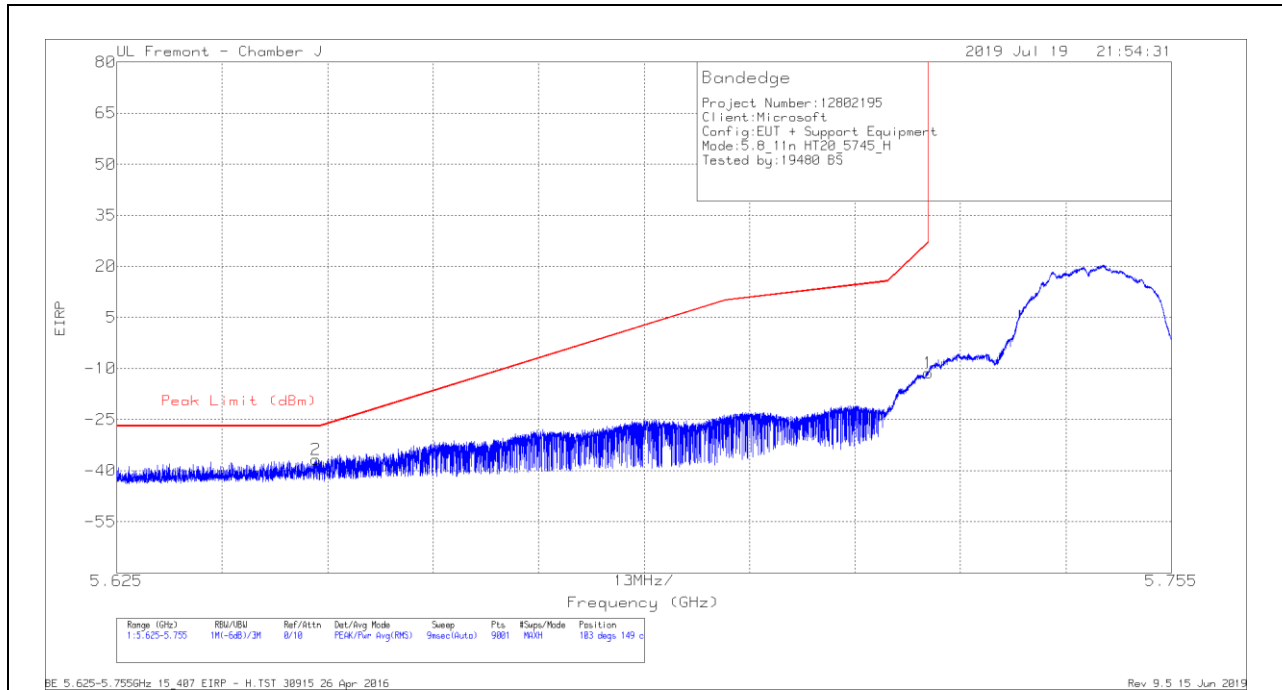
ADR - U-NII AD primary method, RMS average

9.1.14. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.8 GHz BAND

2TX Chain 1 + Chain 2 CDD MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

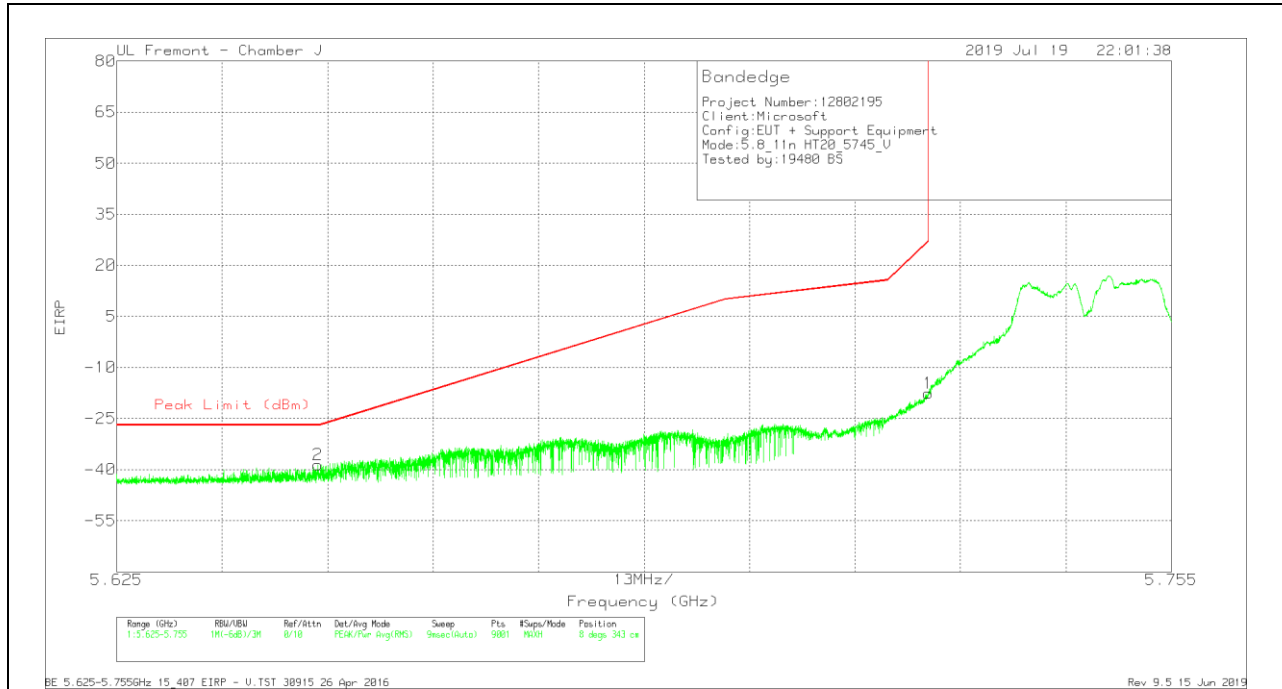


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF PRE0189055 (dB/m)	Amp/Cbll/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-36.88	Pk	34.1	-20.4	11.8	-11.38	26.99	-38.37	103	149	H
2	5.64958	-62.18	Pk	34	-20.4	11.8	-36.78	-27	-9.78	103	149	H

Pk - Peak detector

VERTICAL RESULT



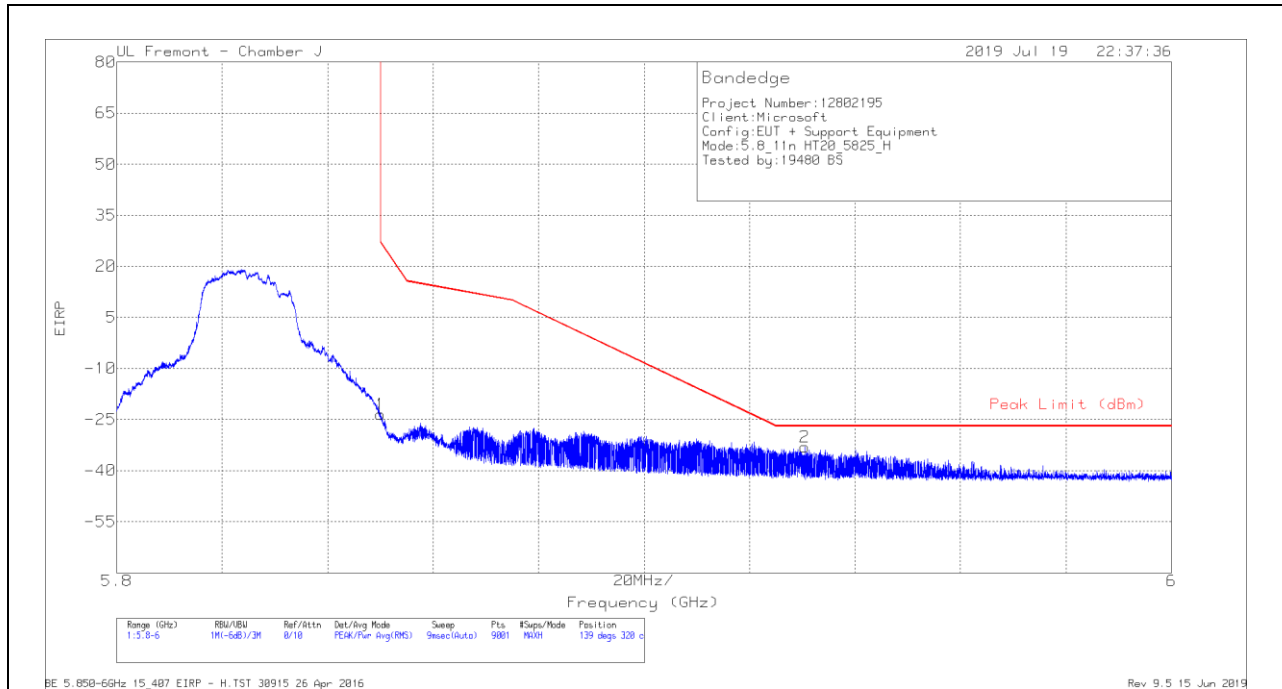
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF PRE0189055 (dB/m)	Amp/Cb/Filt/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-43.09	Pk	34.1	-20.4	11.8	-17.59	26.99	-44.58	8	343	V
2	5.64977	-64.06	Pk	34	-20.4	11.8	-38.66	-27	-11.66	8	343	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

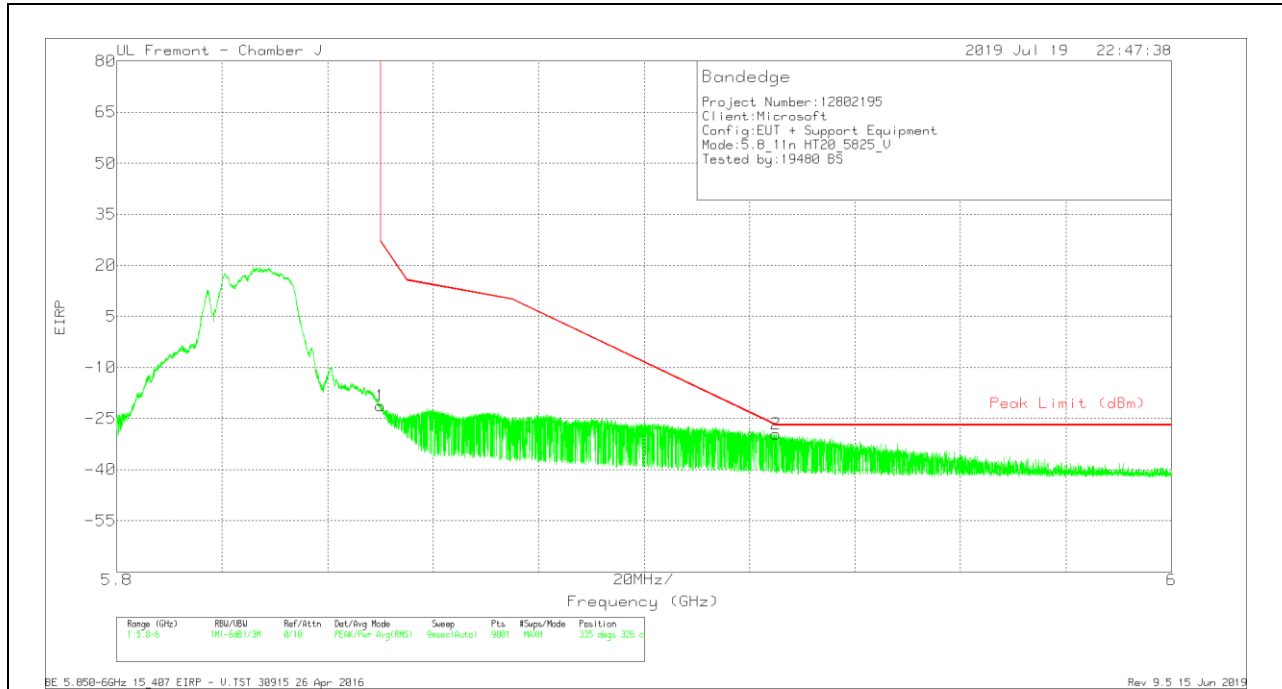


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF PRE0189055 (dB/m)	Amp/Cbll/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-50.01	Pk	34.6	-19.9	11.8	-23.51	26.95	-50.46	139	320	H
2	5.93051	-60.41	Pk	35.2	-19.7	11.8	-33.11	-27	-6.11	139	320	H

Pk - Peak detector

VERTICAL RESULT



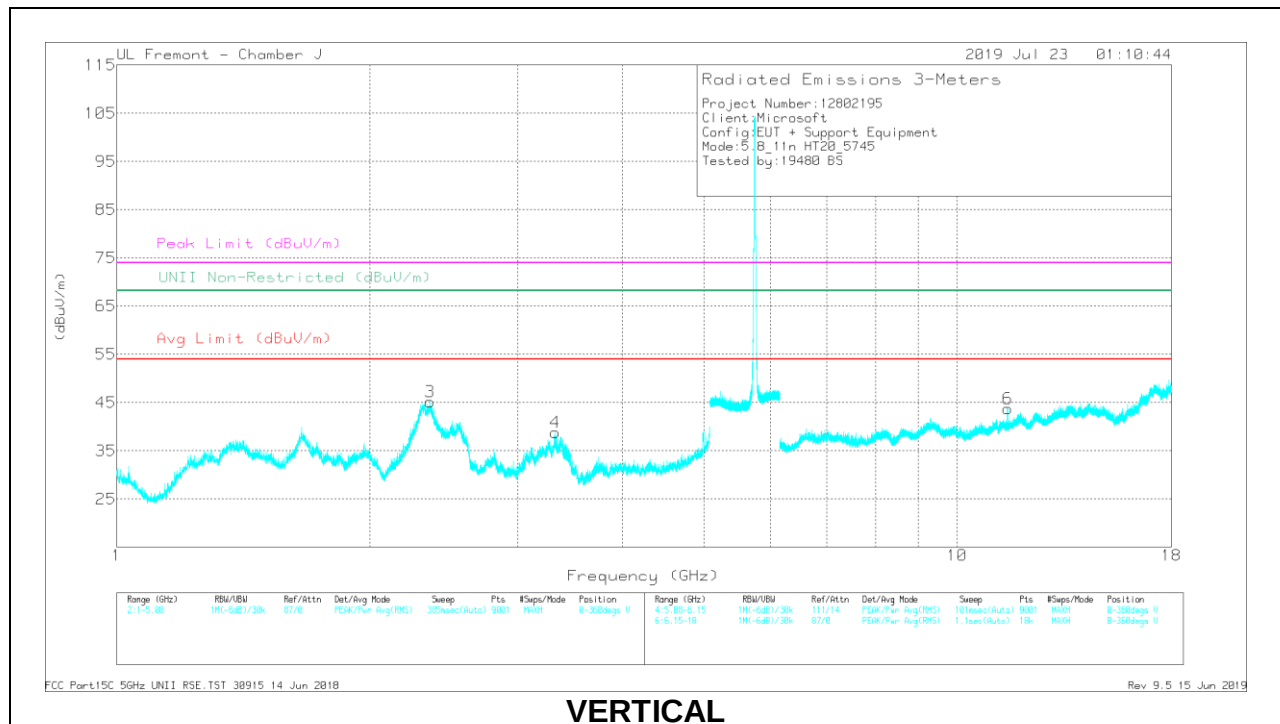
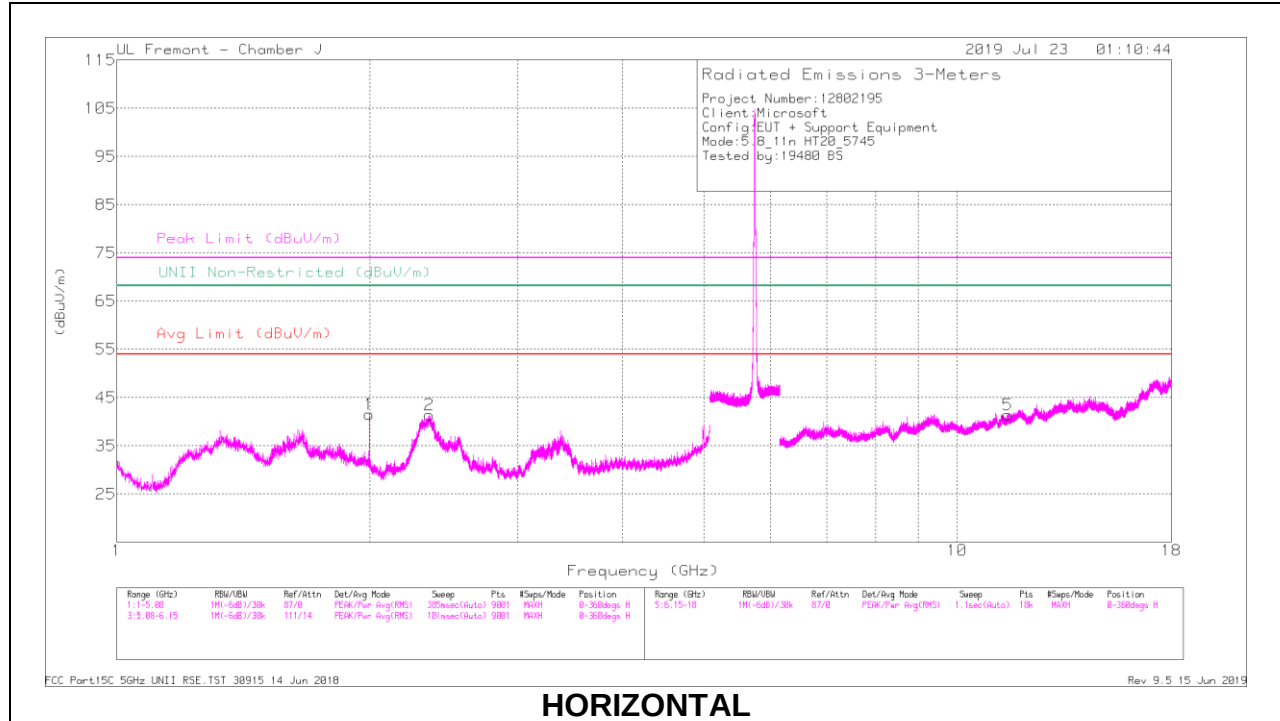
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF PRE018905 5 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	5.85002	-47.74	Pk	34.6	-19.9	11.8	-21.24	26.95	-48.19	335	326	V
2	5.92504	-56.83	Pk	35.2	-19.7	11.8	-29.53	-27	-2.53	335	326	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

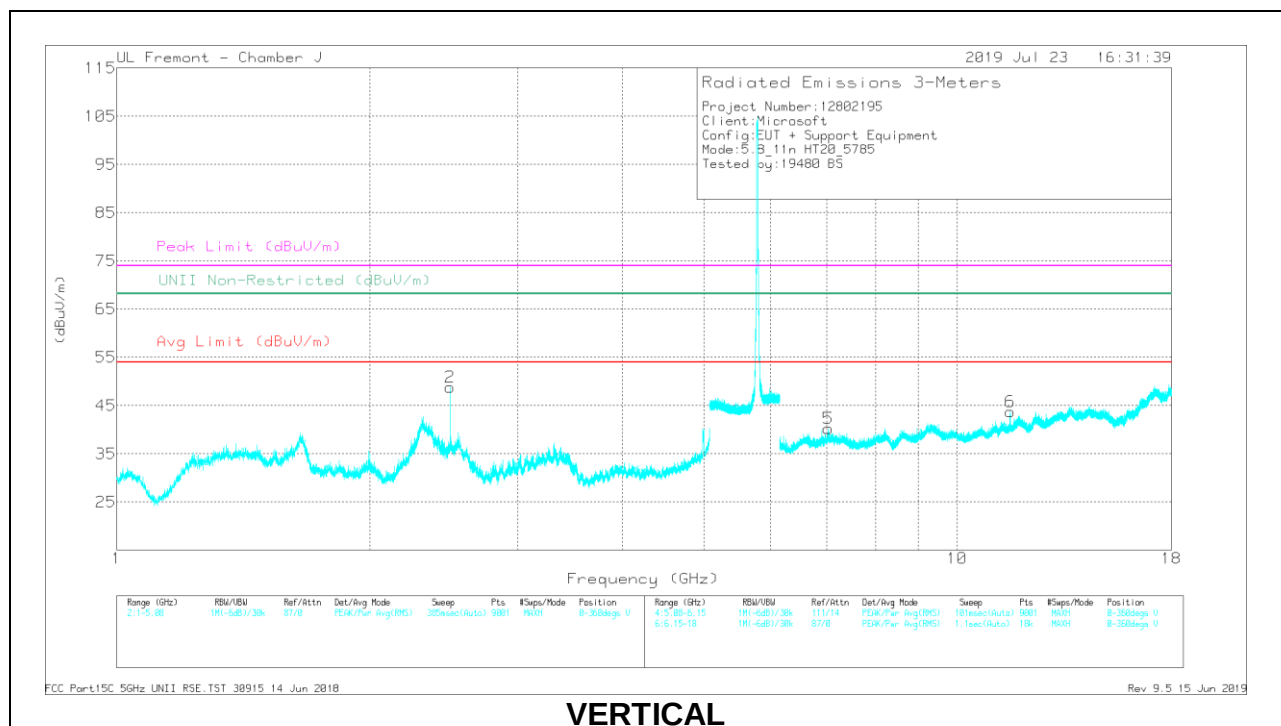
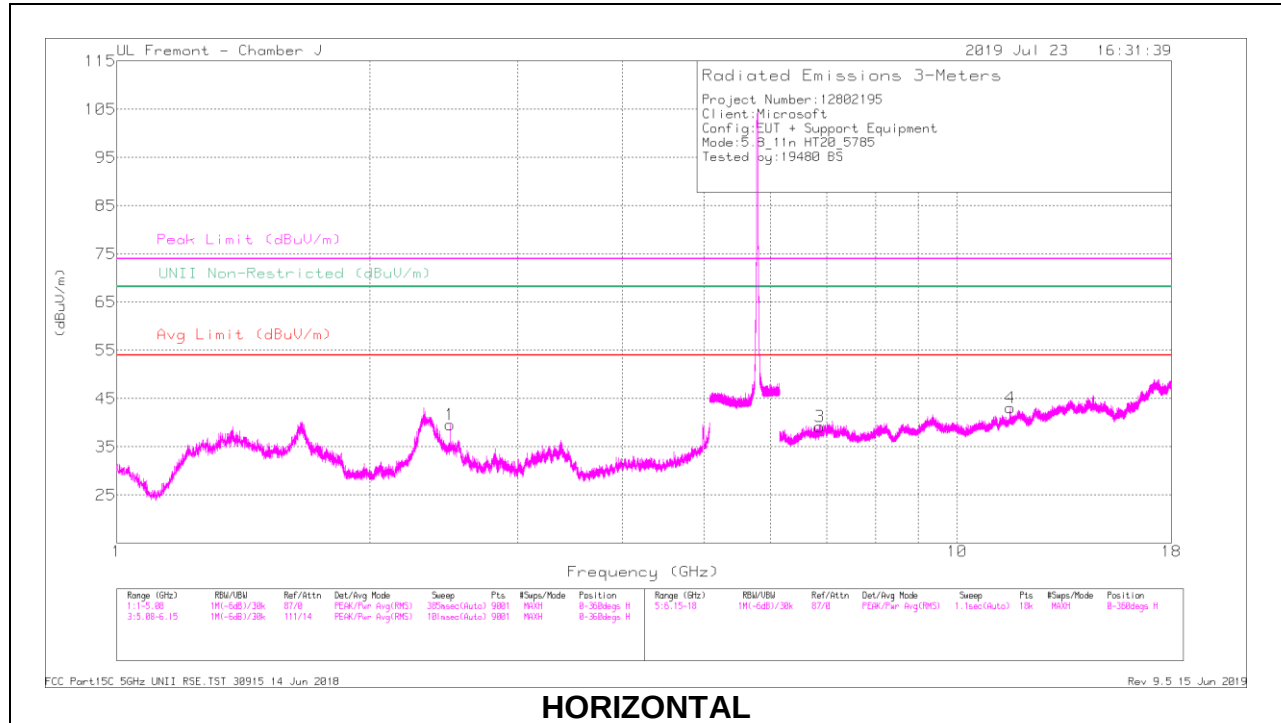
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0189055 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.35902	56.04	PK-U	29.2	-35.2	0	50.04	-	-	74	-23.96	-	-	140	122	H
	* 2.3558	46.06	ADR	29.2	-35.2	.09	40.15	54	-13.85	-	-	-	-	140	122	H
1	1.99458	48.83	PK-U	27.8	-35.4	0	41.23	-	-	-	-	68.2	-26.97	333	104	H
3	* 2.36271	58.78	PK-U	29.2	-35.2	0	52.78	-	-	74	-21.22	-	-	14	104	V
	* 2.36163	49.63	ADR	29.2	-35.2	.09	43.72	54	-10.28	-	-	-	-	14	104	V
4	3.32896	50.13	PK-U	31.3	-33.8	0	47.63	-	-	-	-	68.2	-20.57	164	180	V
5	* 11.49508	33.15	PK-U	39.4	-23.1	0	49.45	-	-	74	-24.55	-	-	219	110	H
	* 11.49534	23.44	ADR	39.4	-23.1	.09	39.83	54	-14.17	-	-	-	-	219	110	H
6	* 11.49885	34.92	PK-U	39.4	-23.1	0	51.22	-	-	74	-22.78	-	-	163	208	V
	* 11.50092	24.9	ADR	39.4	-23.1	.09	41.29	54	-12.71	-	-	-	-	163	208	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

MID CHANNEL RESULTS



RADIATED EMISSIONS

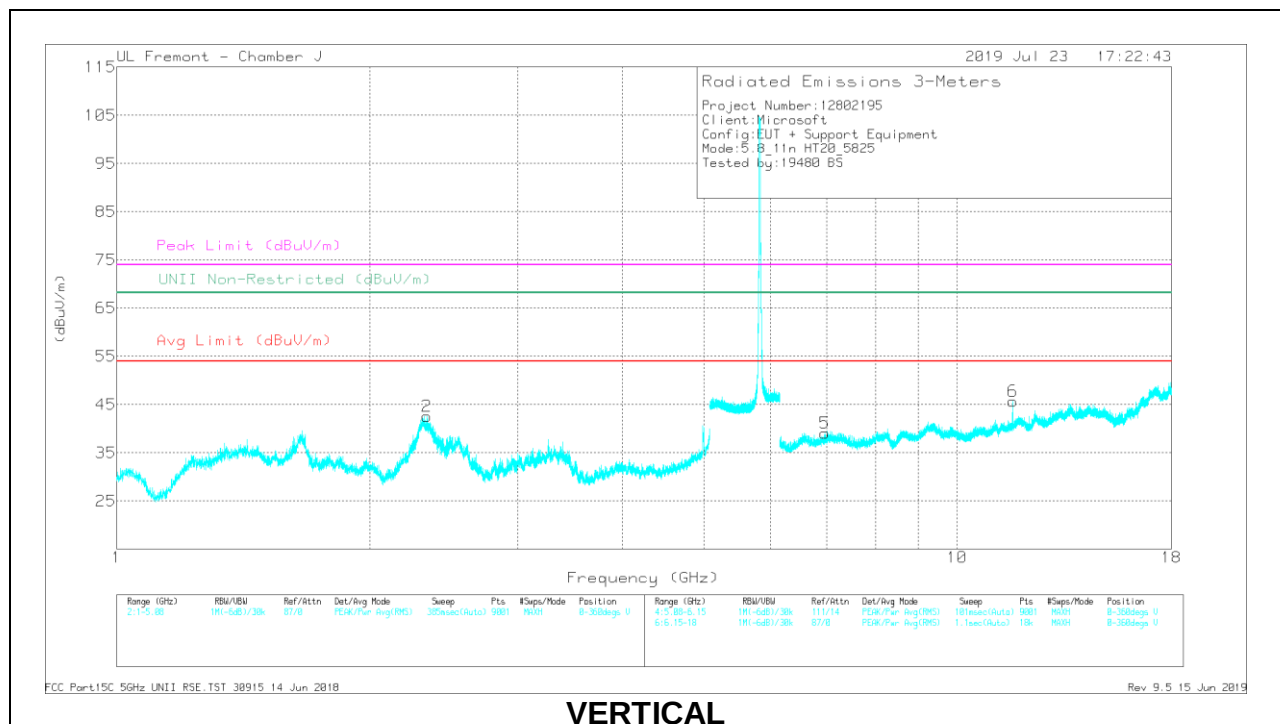
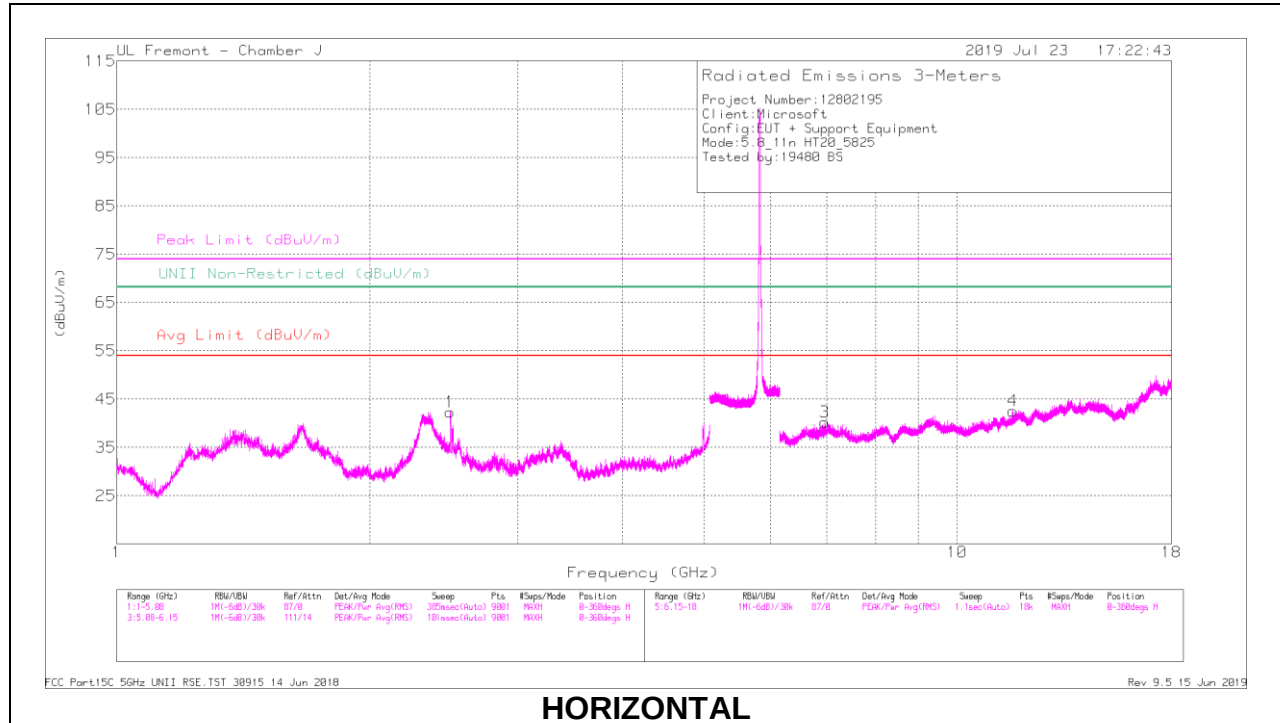
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0189055 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.49327	50.18	PK-U	29.9	-35.2	0	44.88	-	-	74	-29.12	-	-	200	211	H
	* 2.49463	39.72	ADR	30	-35.2	.09	34.61	54	-19.39	-	-	-	-	200	211	H
2	* 2.49045	68.52	PK-U	29.9	-35.2	0	63.22	-	-	74	-10.78	-	-	124	159	V
	* 2.49012	42.21	ADR	29.9	-35.2	.09	37	54	-17	-	-	-	-	124	159	V
4	* 11.57576	34.13	PK-U	39.5	-23	0	50.63	-	-	74	-23.37	-	-	324	110	H
	* 11.57644	24.11	ADR	39.5	-23	.09	40.7	54	-13.3	-	-	-	-	324	110	H
3	6.86252	37.93	PK-U	37.1	-27.6	0	47.43	-	-	-	-	68.2	-20.77	231	156	H
6	* 11.57698	34.91	PK-U	39.5	-23	0	51.41	-	-	74	-22.59	-	-	163	199	V
	* 11.5785	24.18	ADR	39.5	-23	.09	40.77	54	-13.23	-	-	-	-	163	199	V
5	7.02683	37.89	PK-U	37.5	-27.1	0	48.29	-	-	-	-	68.2	-19.91	93	223	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

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0189055 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.49482	56.61	PK-U	30	-35.2	0	51.41	-	-	74	-22.59	-	-	200	313	H
	* 2.49447	33.93	ADR	30	-35.2	.09	28.82	54	-25.18	-	-	-	-	200	313	H
2	* 2.33834	56.15	PK-U	29	-35.2	0	49.95	-	-	74	-24.05	-	-	20	106	V
	* 2.33817	46.18	ADR	29	-35.2	.09	40.07	54	-13.93	-	-	-	-	20	106	V
4	* 11.65408	35.97	PK-U	39.7	-22.8	0	52.87	-	-	74	-21.13	-	-	325	109	H
	* 11.65699	24.61	ADR	39.7	-22.8	.09	41.6	54	-12.4	-	-	-	-	325	109	H
3	6.96601	38.66	PK-U	37.2	-26.8	0	49.06	-	-	-	-	68.2	-19.14	13	238	H
6	* 11.65642	39.74	PK-U	39.7	-22.8	0	56.64	-	-	74	-17.36	-	-	150	205	V
	* 11.65617	27.77	ADR	39.7	-22.8	.09	44.76	54	-9.24	-	-	-	-	150	205	V
5	6.96639	38.16	PK-U	37.2	-26.8	0	48.56	-	-	-	-	68.2	-19.64	47	204	V

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

PK-U - U-NII: Maximum Peak

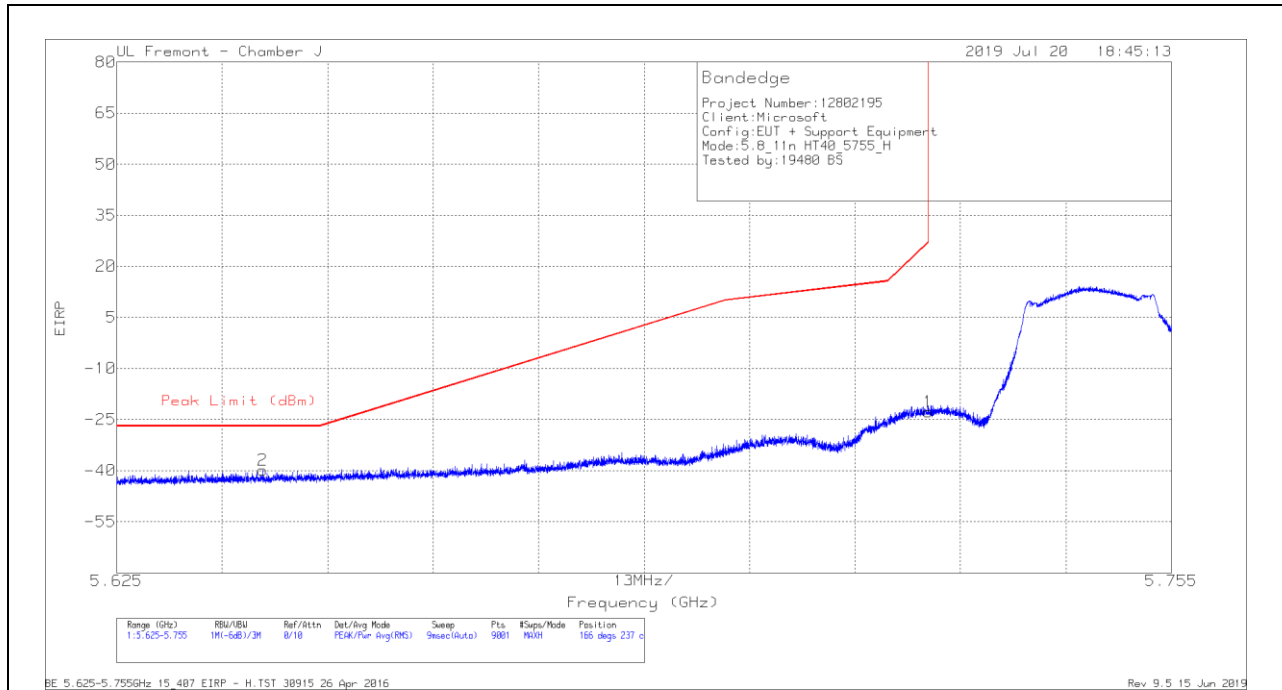
ADR - U-NII AD primary method, RMS average

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

2TX Chain 1 + Chain 2 CDD MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

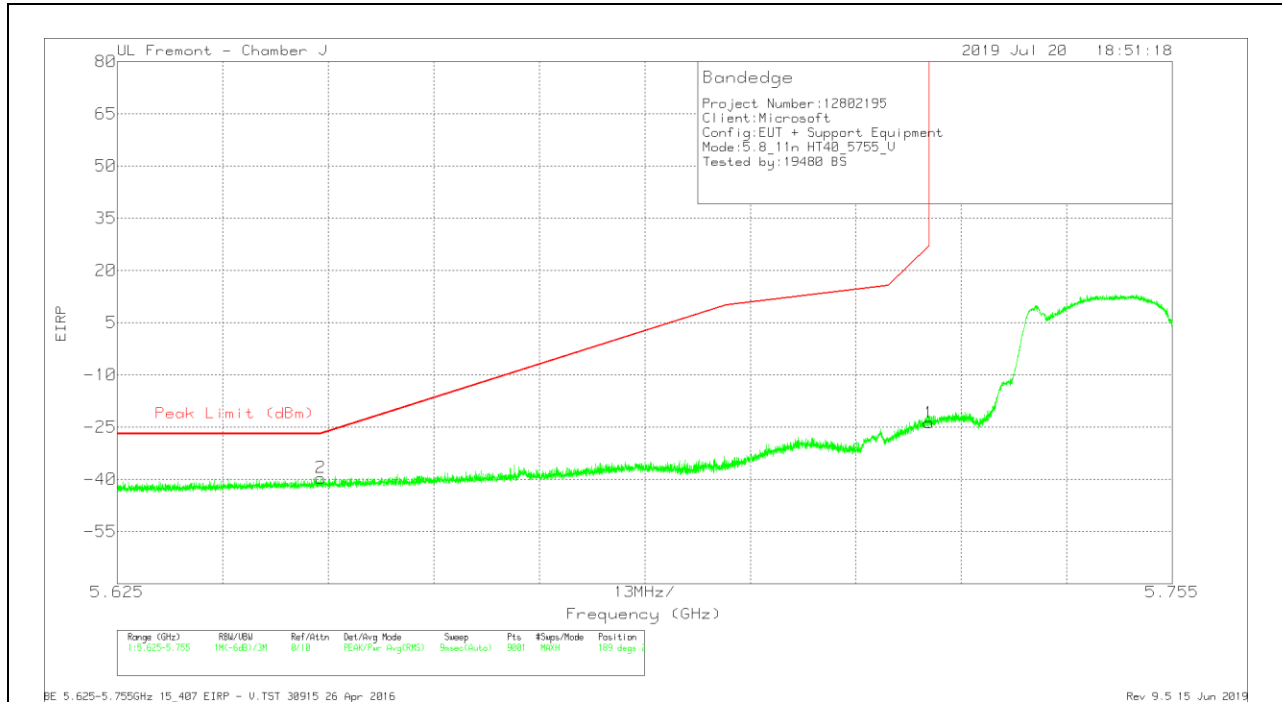


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF PRE0189055 (dB/m)	Amp/Cbll/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-48.26	Pk	34.1	-20.4	11.8	-22.76	26.99	-49.75	166	237	H
2	5.64303	-65.36	Pk	34	-20.4	11.8	-39.96	-27	-12.96	166	237	H

Pk - Peak detector

VERTICAL RESULT



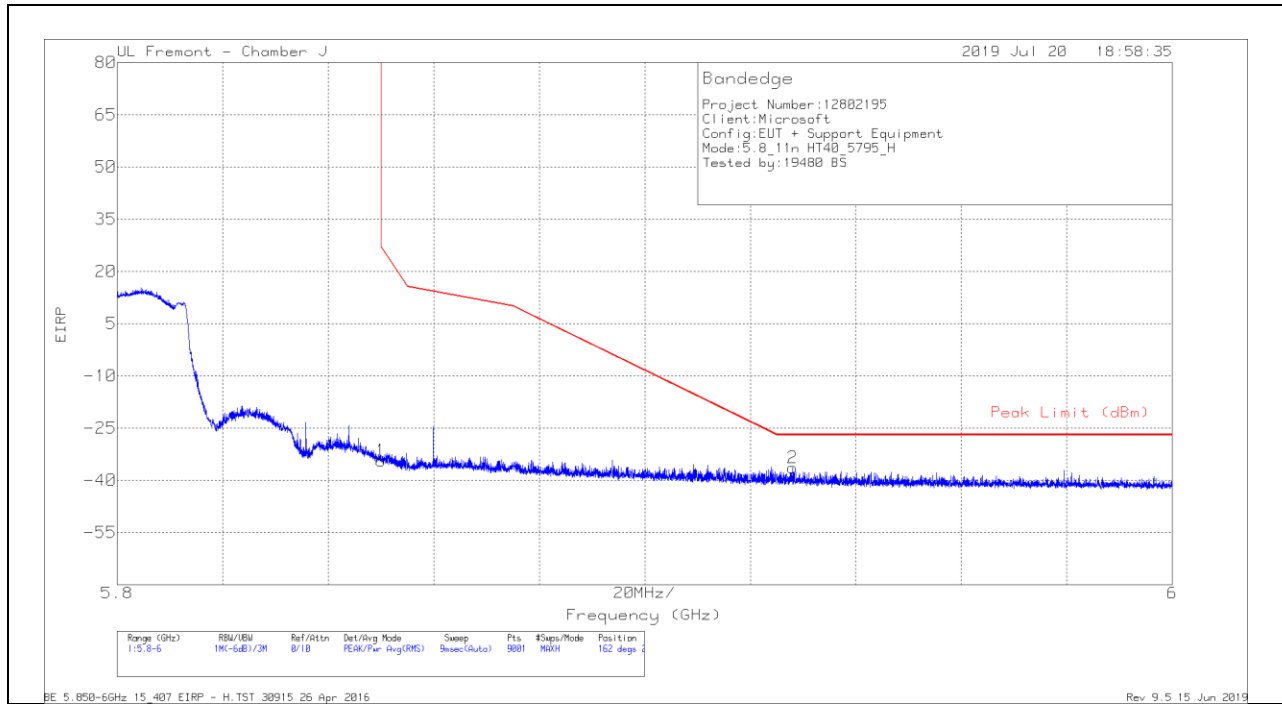
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF PRE0189055 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-49.28	Pk	34.1	-20.4	11.8	-23.78	26.99	-50.77	189	232	V
2	5.65008	-64.88	Pk	34	-20.5	11.8	-39.58	-26.94	-12.64	189	232	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

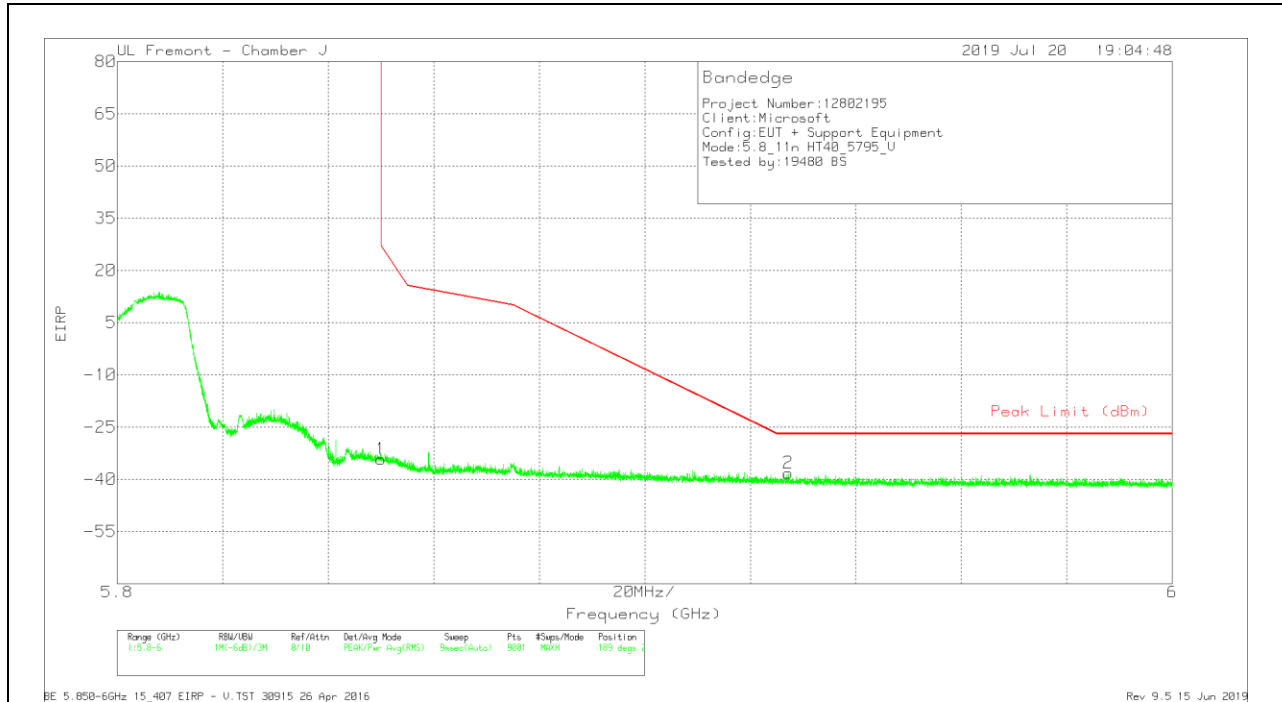


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF PRE0189055 (dB/m)	Amp/Cb/Filt/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-60.82	Pk	34.6	-19.9	11.8	-34.32	26.95	-61.27	162	229	H
2	5.928	-63.7	Pk	35.2	-19.7	11.8	-36.4	-27	-9.4	162	229	H

Pk - Peak detector

VERTICAL RESULT



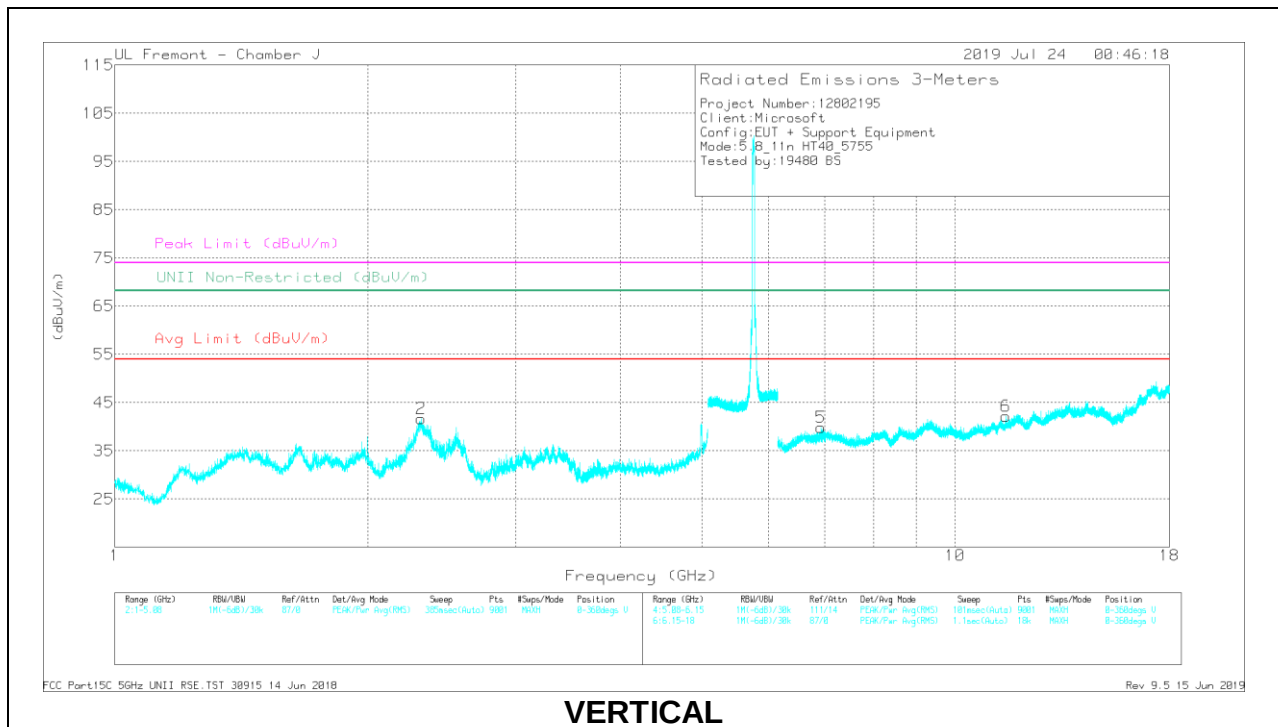
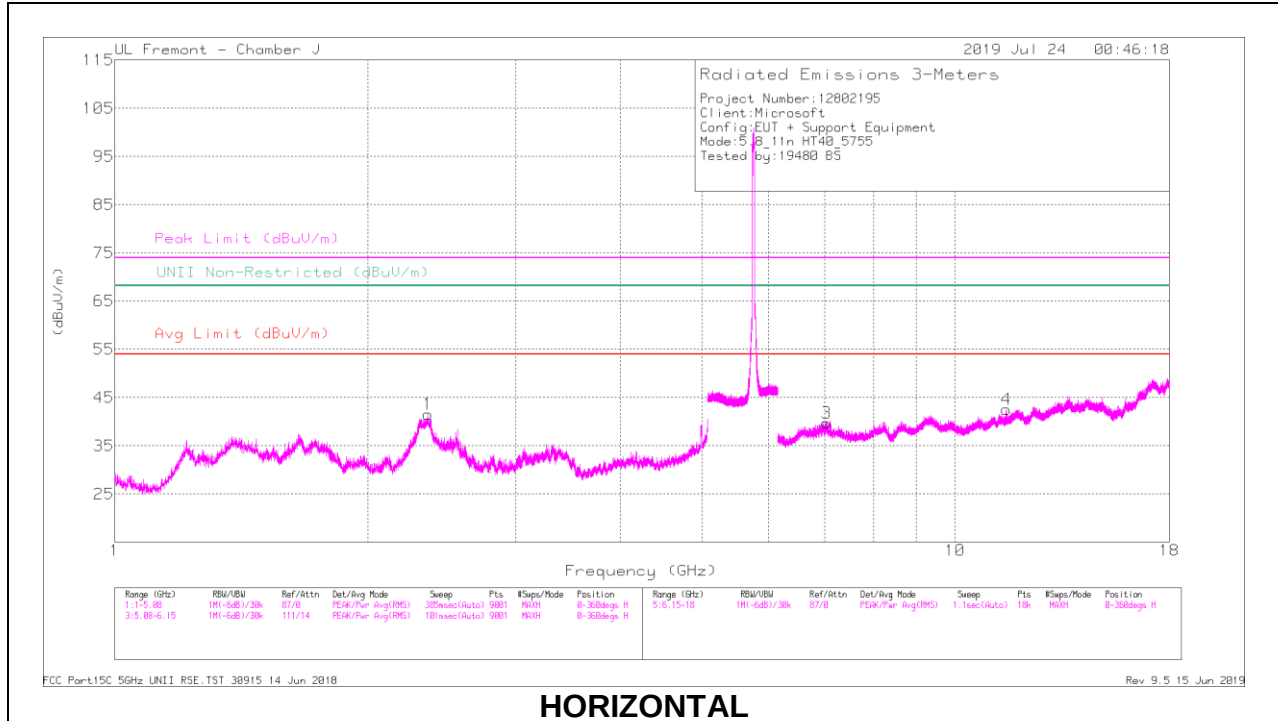
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF PRE0189055 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-60.66	Pk	34.6	-19.9	11.8	-34.16	26.95	-61.11	189	228	V
2	5.92724	-65.45	Pk	35.2	-19.7	11.8	-38.15	-27	-11.15	189	228	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

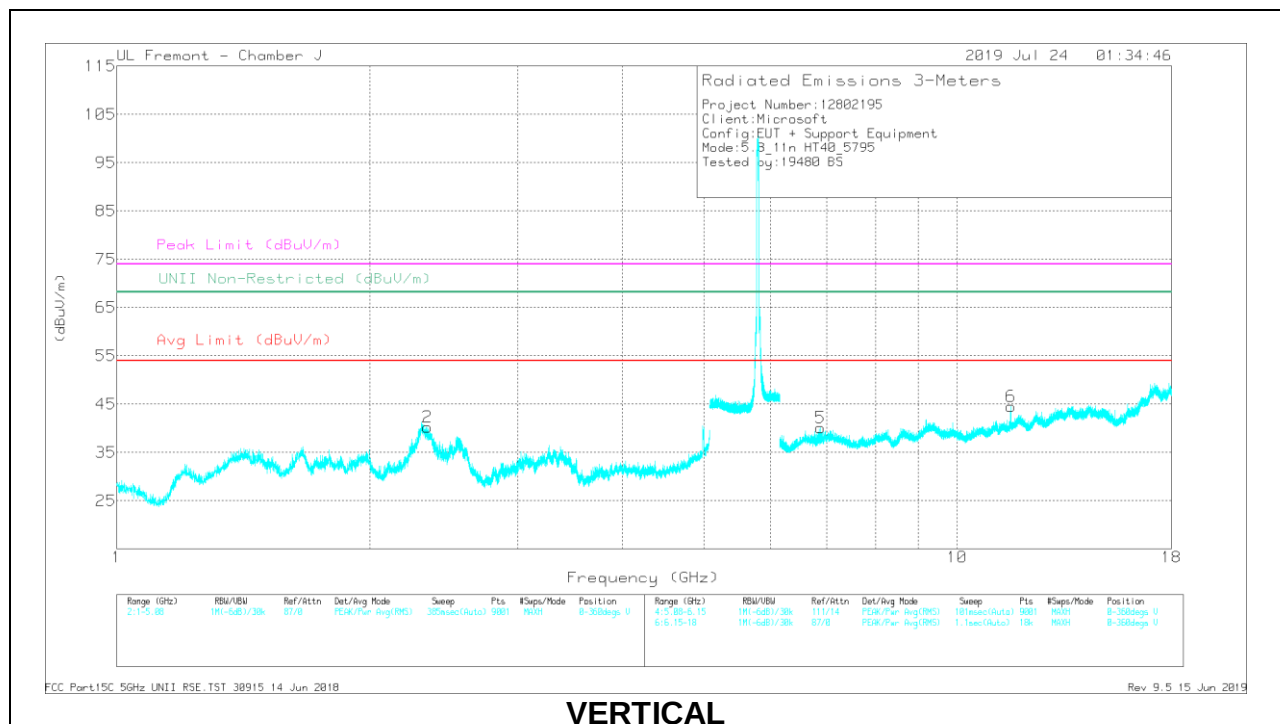
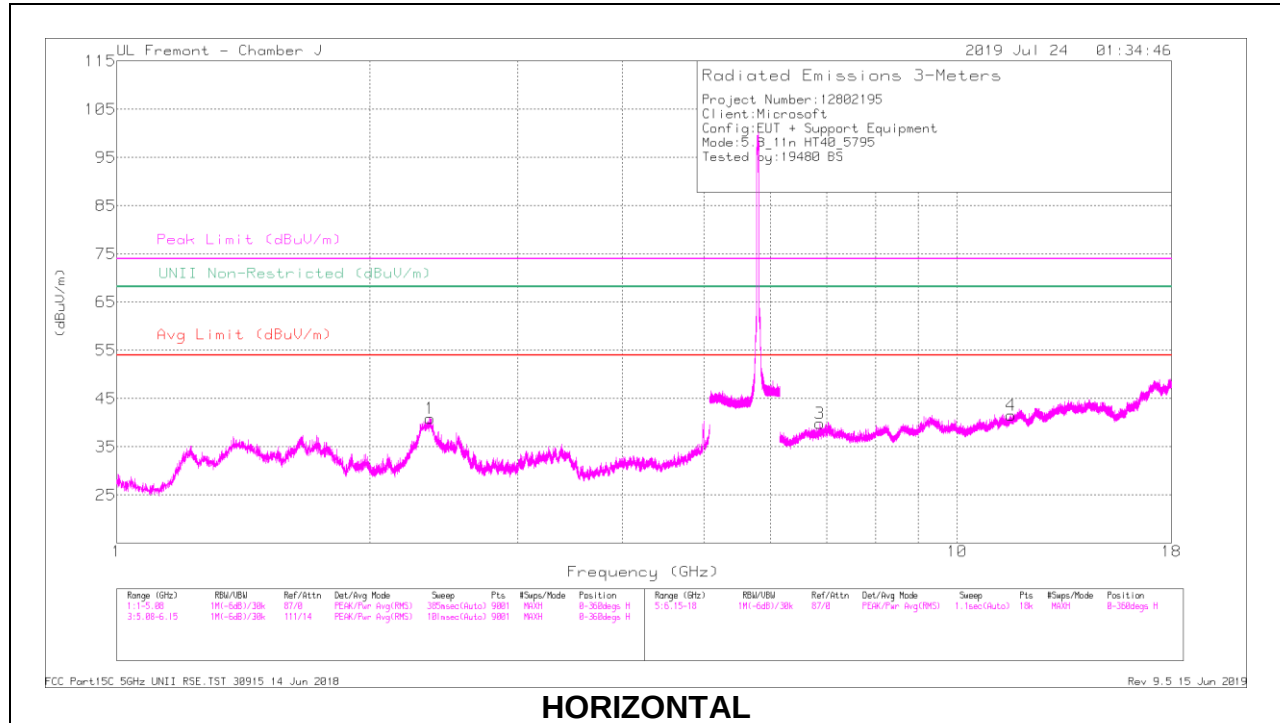
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0189055 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.36007	56.44	PK-U	29.2	-35.2	0	50.44	-	-	74	-23.56	-	-	156	124	H
	* 2.36133	46.34	ADR	29.2	-35.2	.16	40.5	54	-13.5	-	-	-	-	156	124	H
2	* 2.31536	56.57	PK-U	28.7	-35.2	0	50.07	-	-	74	-23.93	-	-	27	103	V
	* 2.31481	46.6	ADR	28.7	-35.2	.16	40.26	54	-13.74	-	-	-	-	27	103	V
4	* 11.52107	33.46	PK-U	39.4	-23.2	0	49.66	-	-	74	-24.34	-	-	80	195	H
	* 11.5208	23.67	ADR	39.4	-23.2	.16	40.03	54	-13.97	-	-	-	-	80	195	H
3	7.03307	38.21	PK-U	37.5	-27.2	0	48.51	-	-	-	-	68.2	-19.69	233	206	H
6	* 11.50243	34.92	PK-U	39.4	-23.1	0	51.22	-	-	74	-22.78	-	-	166	189	V
	* 11.50245	24.95	ADR	39.4	-23.1	.16	41.41	54	-12.59	-	-	-	-	166	189	V
5	6.92826	37.8	PK-U	37.2	-27.1	0	47.9	-	-	-	-	68.2	-20.3	143	162	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

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0189055 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.36119	56.52	PK-U	29.2	-35.2	0	50.52	-	-	74	-23.48	-	-	156	125	H
	* 2.35936	46	ADR	29.2	-35.2	.16	40.16	54	-13.84	-	-	-	-	156	125	H
2	* 2.34394	55.41	PK-U	29.1	-35.2	0	49.31	-	-	74	-24.69	-	-	27	104	V
	* 2.34241	45.64	ADR	29	-35.2	.16	39.6	54	-14.4	-	-	-	-	27	104	V
4	* 11.59735	33.78	PK-U	39.5	-22.9	0	50.38	-	-	74	-23.62	-	-	325	184	H
	* 11.59618	22.63	ADR	39.5	-23	.16	39.29	54	-14.71	-	-	-	-	325	184	H
3	6.87031	38.41	PK-U	37.1	-27.5	0	48.01	-	-	-	-	68.2	-20.19	245	218	H
6	* 11.60101	36.66	PK-U	39.6	-22.9	0	53.36	-	-	74	-20.64	-	-	150	215	V
	* 11.5986	25.1	ADR	39.5	-22.9	.16	41.86	54	-12.14	-	-	-	-	150	215	V
5	6.88434	38.38	PK-U	37.1	-27.5	0	47.98	-	-	-	-	68.2	-20.22	145	158	V

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

PK-U - U-NII: Maximum Peak

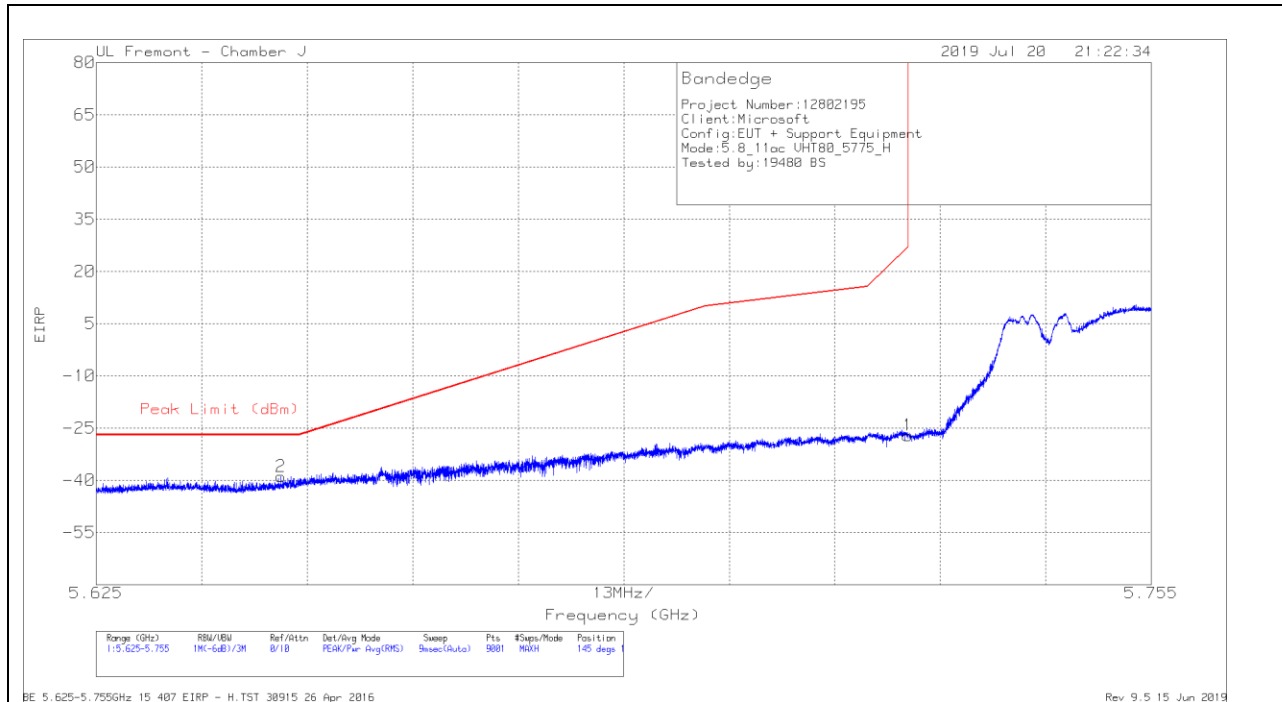
ADR - U-NII AD primary method, RMS average

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

2TX Chain 1 + Chain 2 CDD MODE

BANEDGE (LOW CHANNEL)

HORIZONTAL RESULT

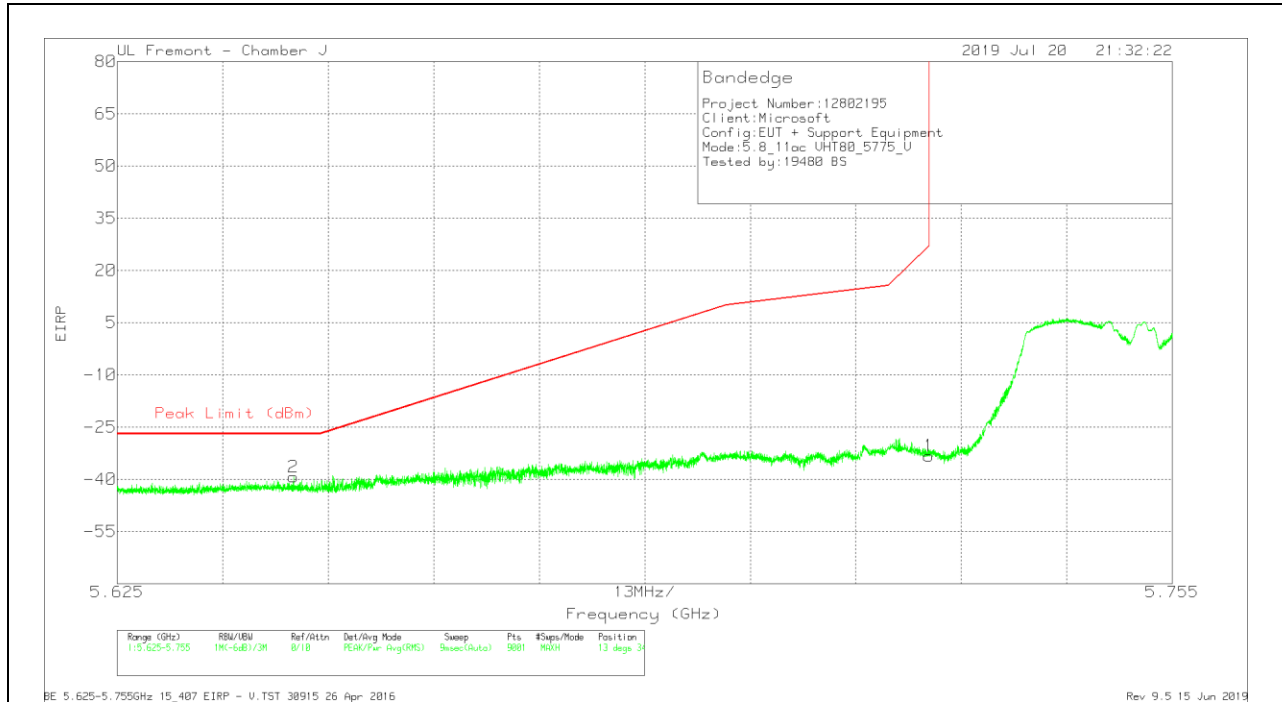


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF PRE0189055 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-52.61	Pk	34.1	-20.4	11.8	-27.11	26.99	-54.1	145	131	H
2	5.64774	-64.33	Pk	34	-20.4	11.8	-38.93	-27	-11.93	145	131	H

Pk - Peak detector

VERTICAL RESULT



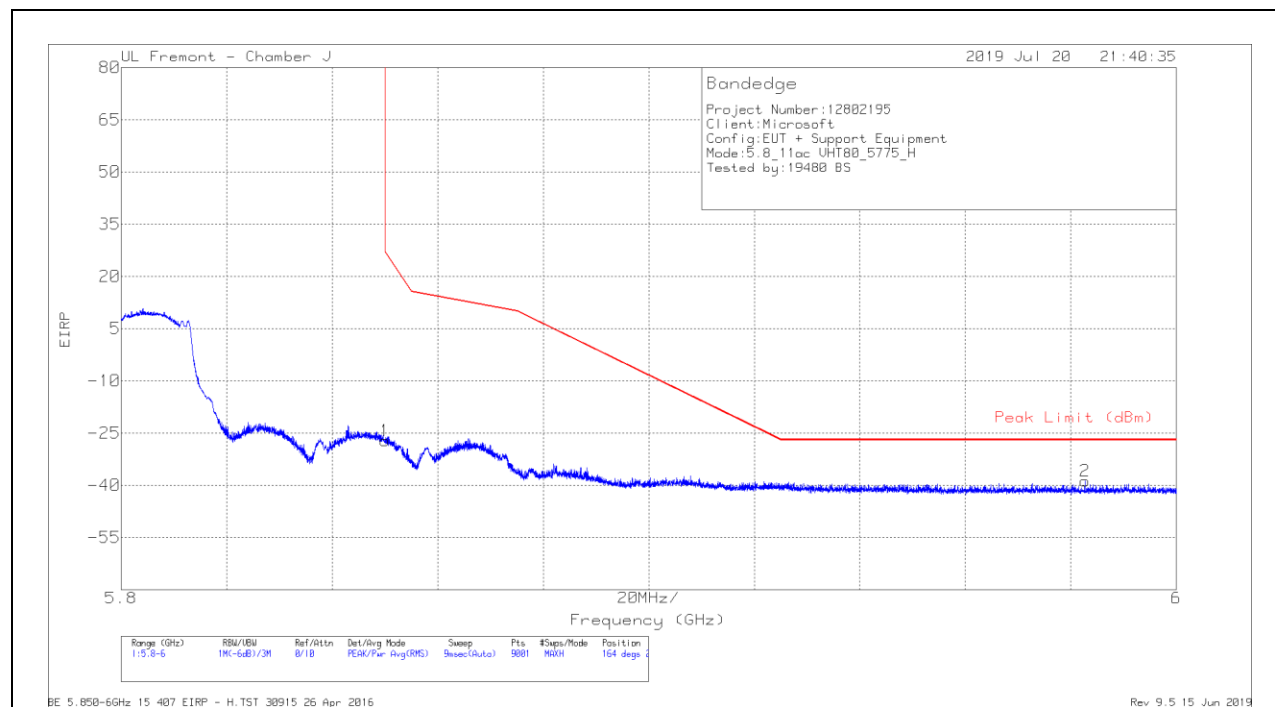
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF PRE0189055 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-58.79	Pk	34.1	-20.4	11.8	-33.29	26.99	-60.28	13	347	V
2	5.64671	-64.75	Pk	34	-20.4	11.8	-39.35	-27	-12.35	13	347	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF PRE0189055 (dB/m)	Amp/Cb/Filt/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-53.69	Pk	34.6	-19.9	11.8	-27.19	26.95	-54.14	164	234	H
2	5.98271	-66.37	Pk	35.4	-19.6	11.8	-38.77	-27	-11.77	164	234	H

Pk - Peak detector

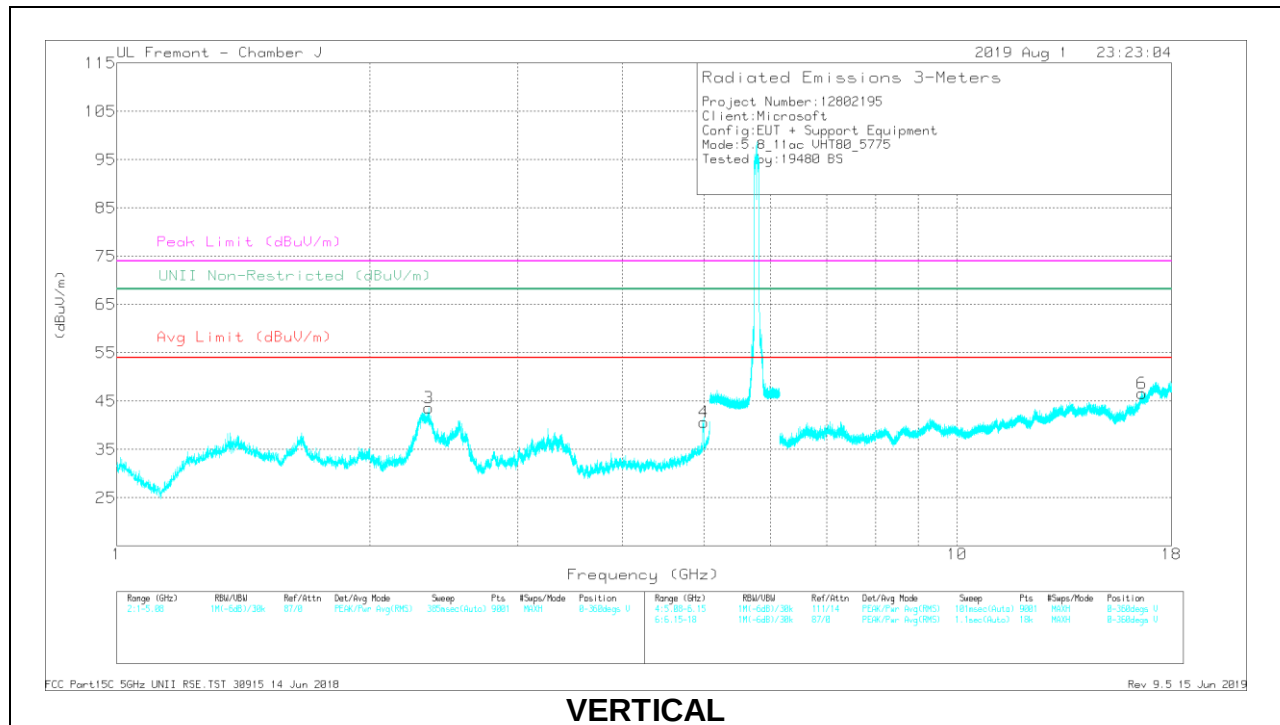
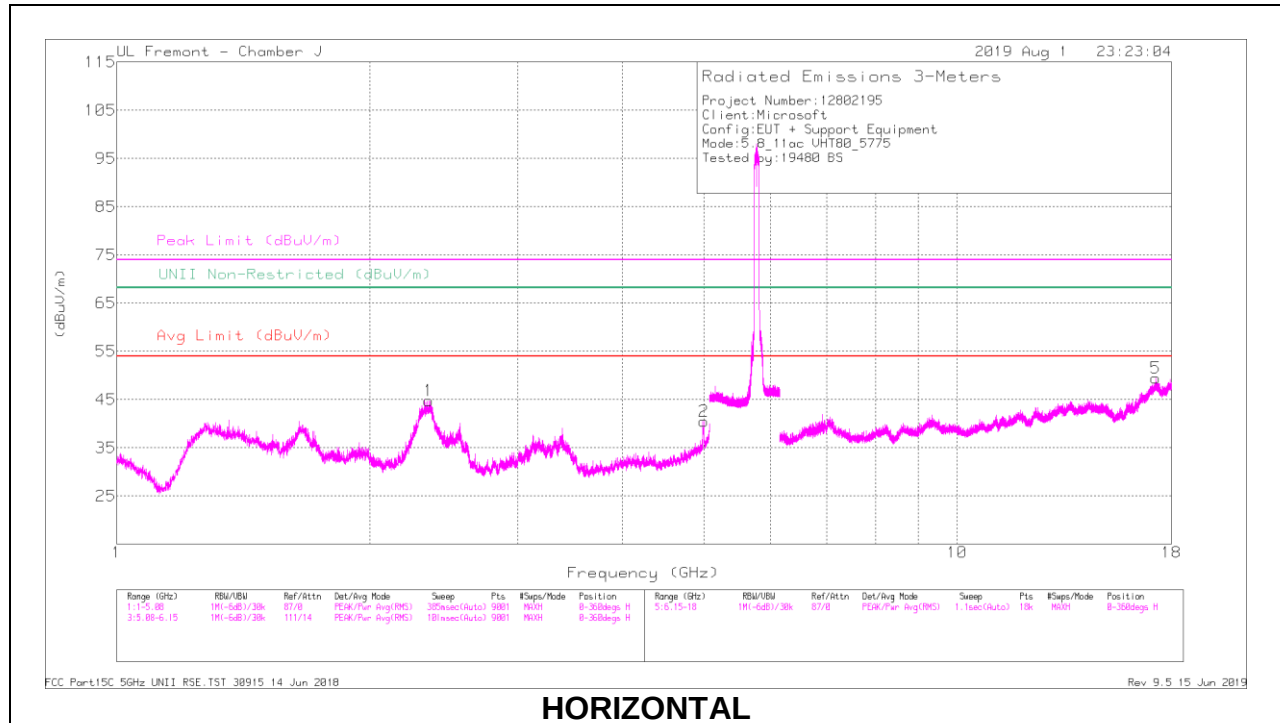
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Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0189055 (dB/m)	Ampl/Cbl/Filtr/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	* 2.34966	59.49	PK-U	29.1	-35.2	0	53.39	-	-	74	-20.61	-	-	235	185	H
	* 2.35251	49.68	ADR	29.1	-35.2	.34	43.92	54	-10.08	-	-	-	-	235	185	H
2	* 4.99683	46.54	PK-U	35.1	-29.4	0	52.24	-	-	74	-21.76	-	-	273	212	H
	* 4.99456	34.7	ADR	35	-29.5	.34	40.54	54	-13.46	-	-	-	-	273	212	H
3	* 2.35458	56.99	PK-U	29.2	-35.2	0	50.99	-	-	74	-23.01	-	-	186	116	V
	* 2.35235	47.93	ADR	29.1	-35.2	.34	42.17	54	-11.83	-	-	-	-	186	116	V
4	* 4.9863	50.48	PK-U	35	-29.5	0	55.98	-	-	74	-18.02	-	-	146	194	V
	* 4.9948	37.9	ADR	35	-29.5	.34	43.74	54	-10.26	-	-	-	-	146	194	V
5	17.23914	30.46	PK-U	43.8	-18.8	0	55.46	-	-	-	-	68.2	-12.74	98	190	H
6	16.59977	31.07	PK-U	41.5	-19	0	53.57	-	-	-	-	68.2	-14.63	170	295	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

9.2. SPURIOUS EMISSIONS FOR COLLOCATION

TEST-CASE CONDITIONS

Testcase #	Antenna	Mode	Frequency (MHz)
1	MIMO	WLAN 5GHz, 11n HT20	5260
	WWAN	LTE Band 7, QPSK (20MHz), 1RB	2510
2	MIMO	WLAN 5GHz, 11n HT20	5260
	WWAN	LTE Band 5, QPSK (10MHz), 1RB	836.5
3	Chain 1	BT GFSK	2480
	Chain 2	WLAN 5GHz, 11n HT20	5260
4	Chain 1	BLE 1Mbps	2480
	Chain 2	WLAN 5GHz, 11n HT20	5260

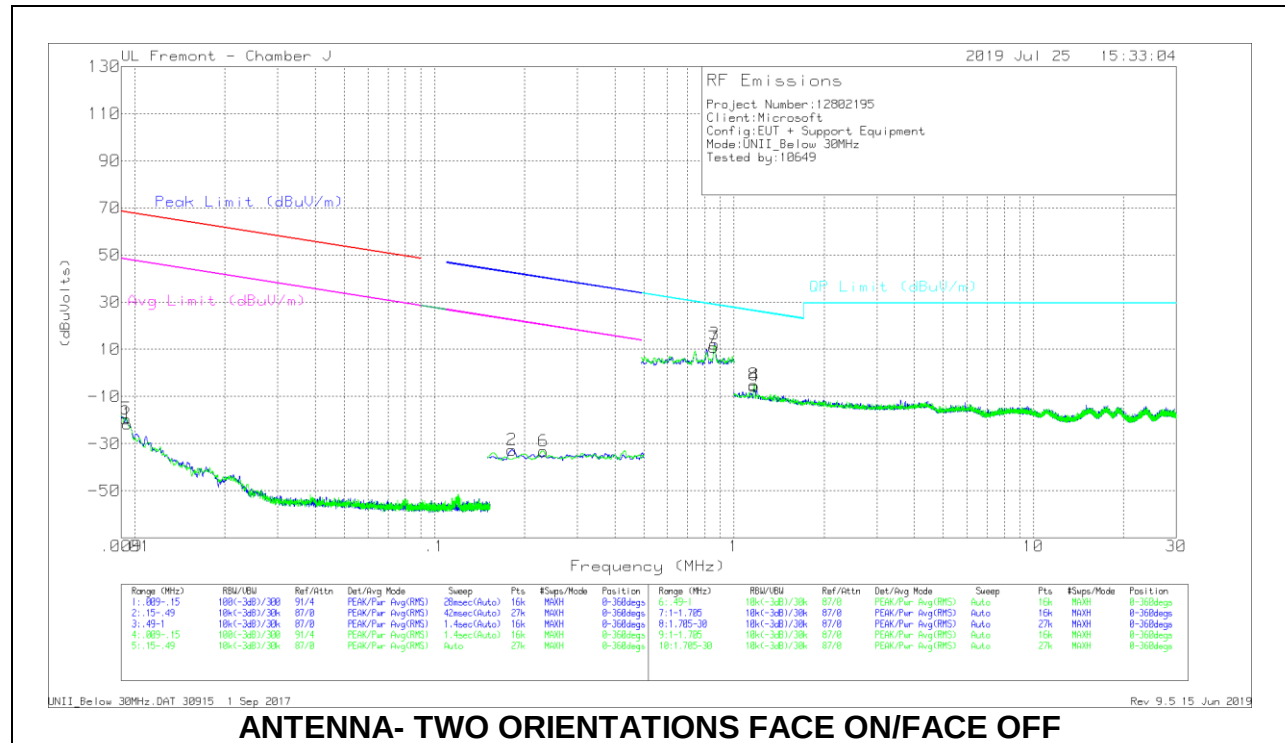
For simultaneous transmission of any WLAN (2.4GHz) and WWAN bands, investigation has been performed and no noticeable new emission was found.

Please see report number 12802195-E1 for data on test case 3, BLE 1Mbps (2.4 GHz) and WLAN (5 GHz)

Please see report number 12802195-E2 for data on test case 4, BT GFSK (2.4 GHz) and WLAN (5 GHz)

9.3. WORST CASE BELOW 30MHZ

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION)



ANTENNA- TWO ORIENTATIONS FACE ON/FACE OFF

Below 30MHz Data

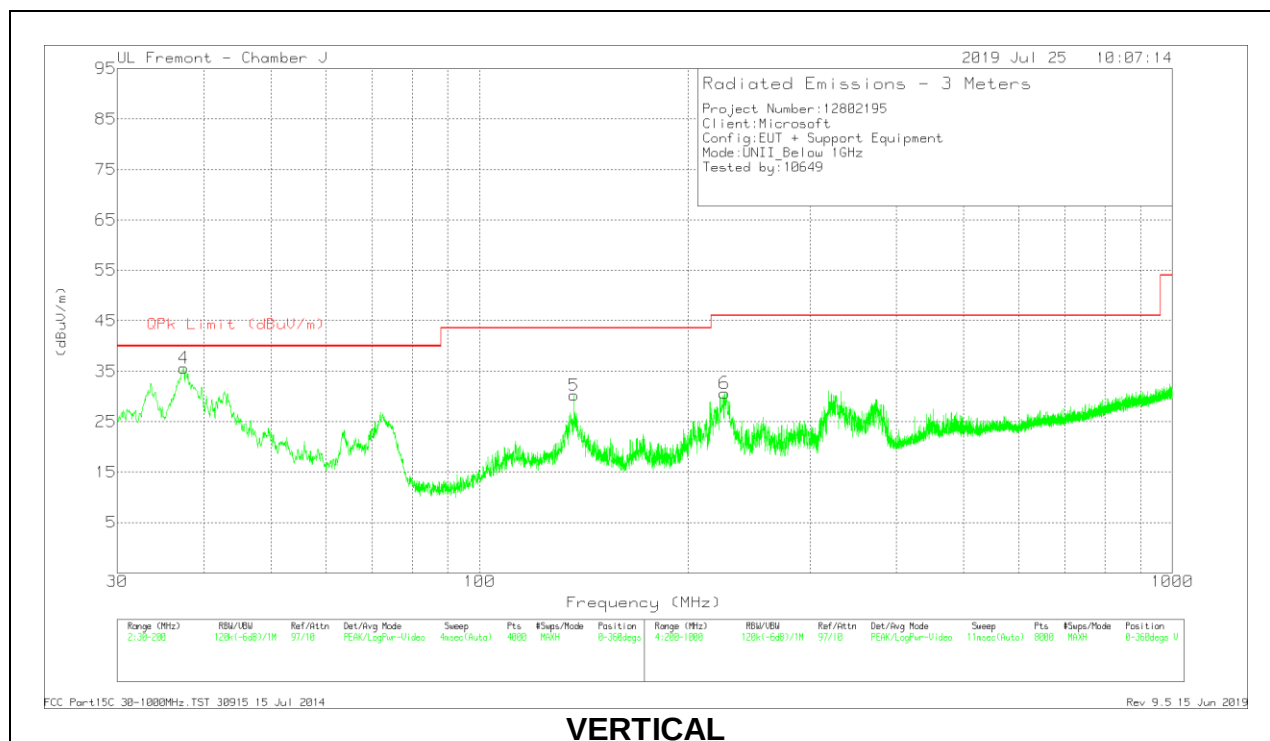
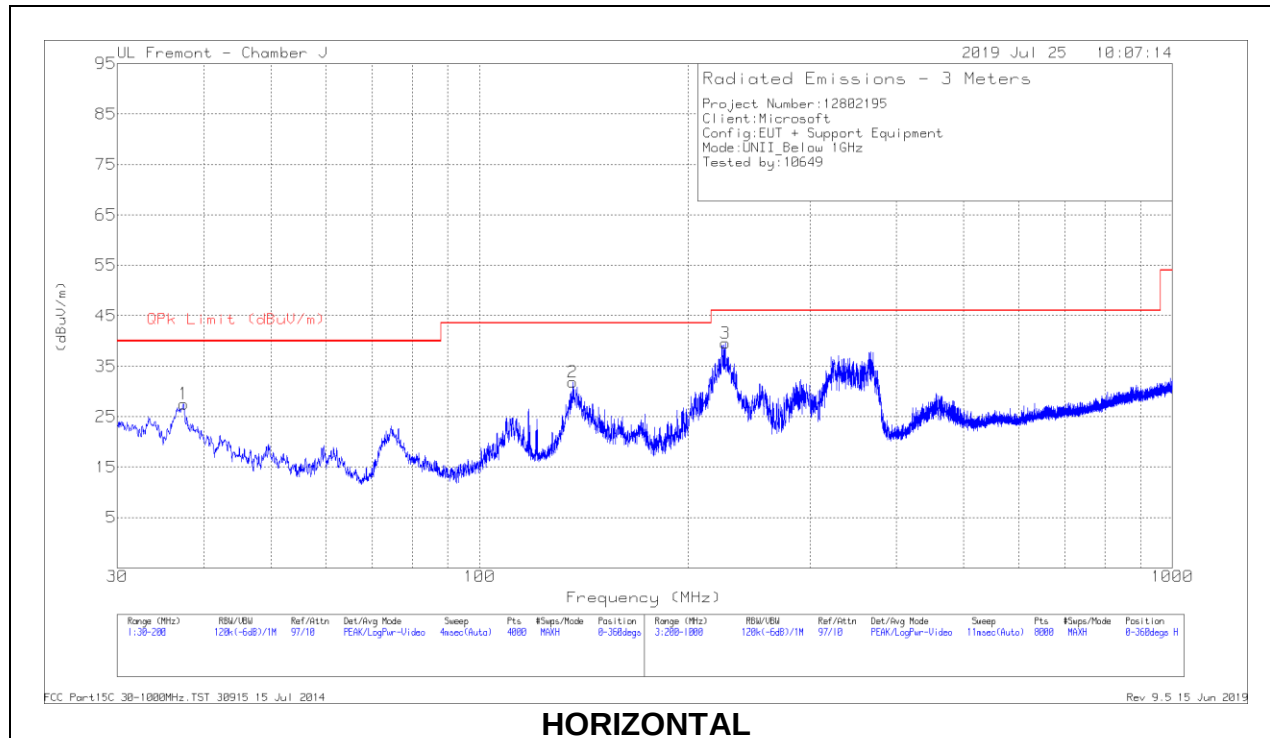
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (ACF)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.00945	26.17	Pk	60.7	-28.5	-80	-21.63	68.08	-89.71	48.08	-69.71	-	-	-	-	0-360
2	.18162	19.8	Pk	56	-28.5	-80	-32.7	-	-	-	-	42.44	-75.14	22.44	-55.14	0-360
5	.00935	28.26	Pk	60.8	-28.5	-80	-19.44	68.17	-87.61	48.17	-67.61	-	-	-	-	0-360
6	.231	19.14	Pk	56.1	-28.5	-80	-33.26	-	-	-	-	40.34	-73.6	20.34	-53.6	0-360

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (ACF)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuVolts)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
3	.8597	24.58	Pk	56.1	-28.4	-40	12.28	28.93	-16.65	0-360
7	.85736	23.18	Pk	56.1	-28.4	-40	10.88	28.95	-18.07	0-360
4	1.16885	16.87	Pk	45.9	-28.4	-40	-5.63	26.27	-31.9	0-360
8	1.16764	17.48	Pk	45.9	-28.4	-40	-5.02	26.28	-31.3	0-360

Pk - Peak detector

9.4. WORST CASE BELOW 1 GHZ



Below 1GHz DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF PRE0181575 (dB/m)	Amp Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	37.3969	37.71	Pk	21.3	-31.5	27.51	40	-12.49	0-360	398	H
2	* 136.405	43.45	Pk	19.2	-30.8	31.85	43.52	-11.67	0-360	198	H
4	37.3969	45.81	Pk	21.3	-31.5	35.61	40	-4.39	175	108	V
	* 37.847	41.98	Qp	21	-31.5	31.48	40	-8.52	175	108	V
5	* 136.8727	41.91	Pk	19.1	-30.8	30.21	43.52	-13.31	0-360	101	V
3	226.4034	53.16	Pk	16.8	-30.4	39.56	46.02	-6.46	0-360	101	H
6	225.8034	44.21	Pk	16.8	-30.4	30.61	46.02	-15.41	0-360	101	V

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

Pk - Peak detector

Qp - Quasi-Peak detector