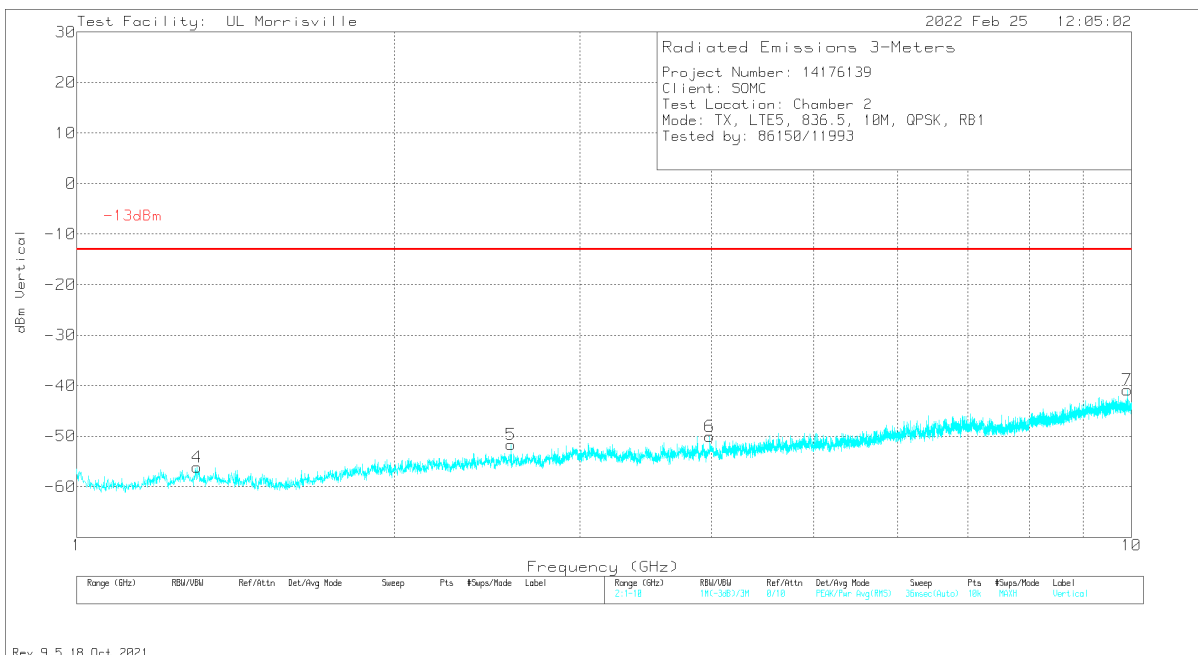
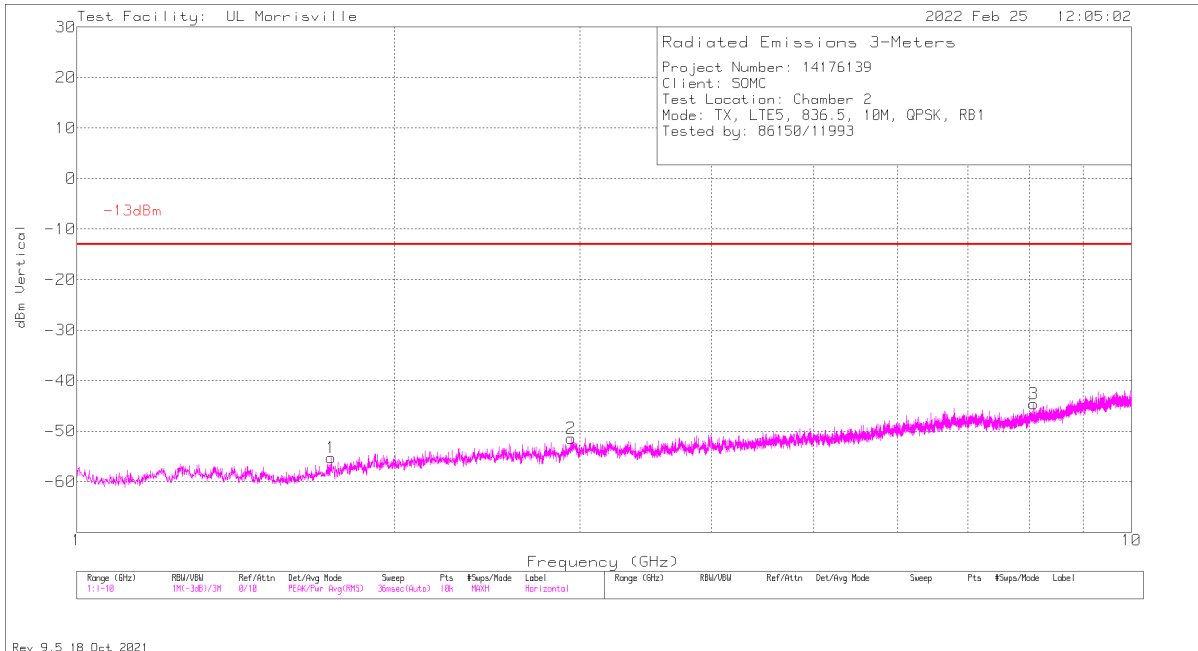


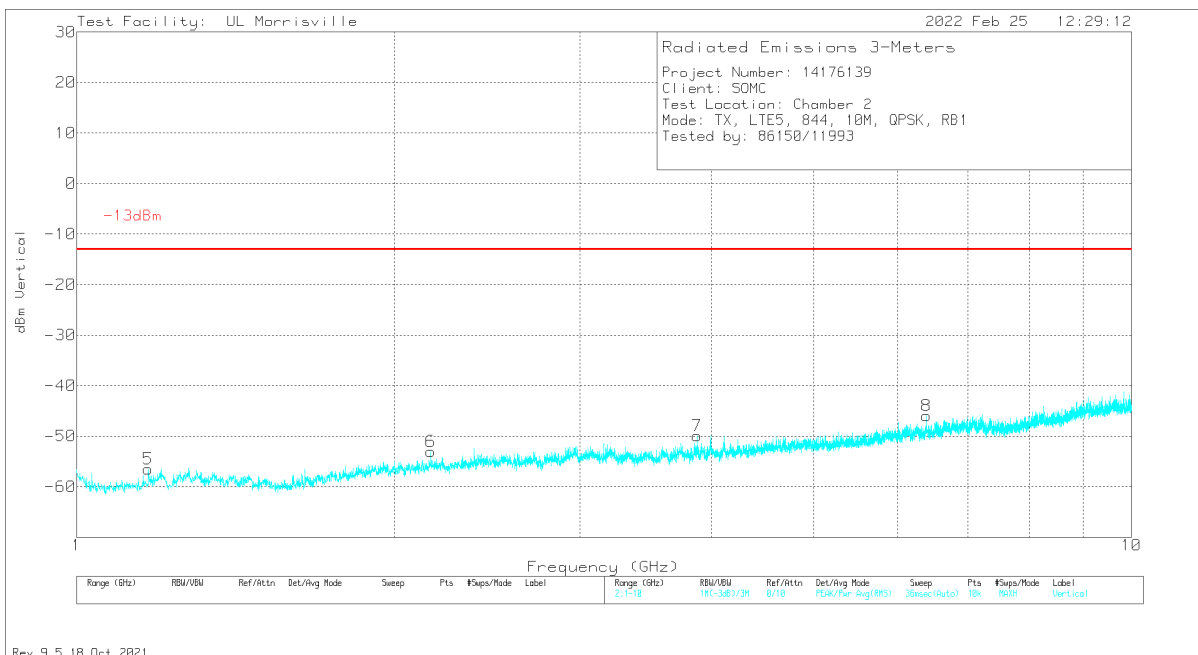
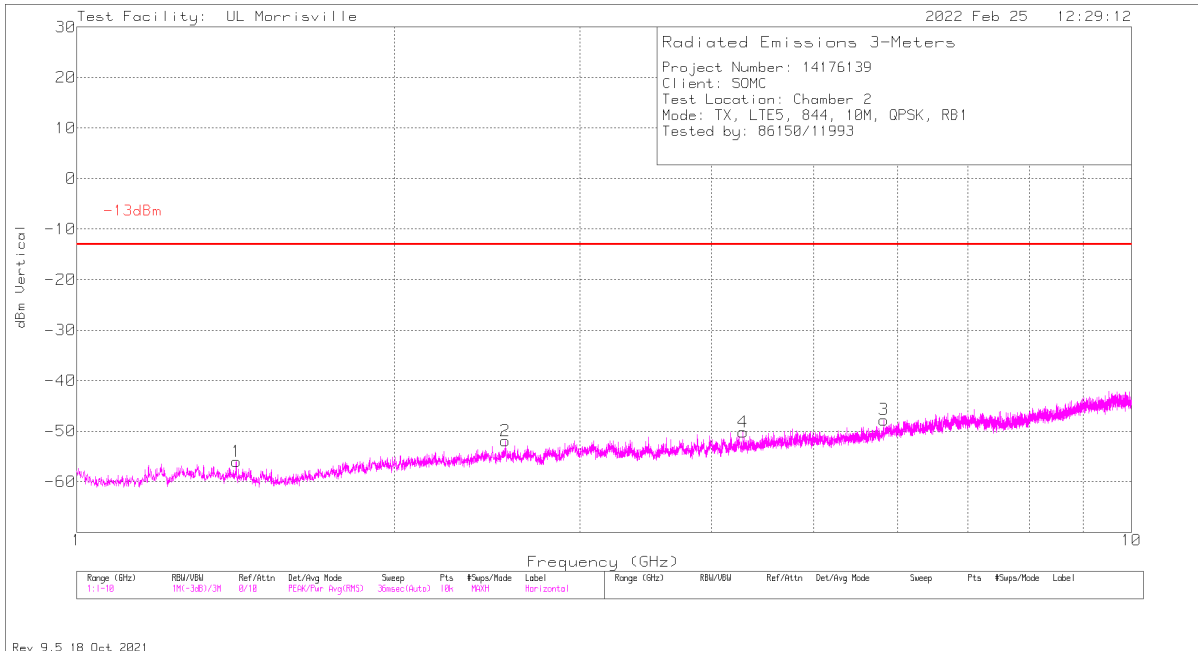
QPSK 10MHz 836.5MHz Mid Channel



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.3006	-63.33	Pk	29.2	-34.8	1	11.8	-56.13	-13	-43.13	0-360	201	V
1	1.7434	-62.42	Pk	29.6	-34.6	.4	11.8	-55.22	-13	-42.22	0-360	101	H
5	2.5822	-62.31	Pk	32.5	-34.1	.4	11.8	-51.71	-13	-38.71	0-360	101	V
2	2.9422	-63.37	Pk	33	-33.4	.6	11.8	-51.37	-13	-38.37	0-360	199	H
6	3.9808	-63.93	Pk	33.6	-32	.5	11.8	-50.03	-13	-37.03	0-360	201	V
3	8.0785	-65.56	Pk	35.8	-27	.4	11.8	-44.56	-13	-31.56	0-360	300	H
7	9.9109	-64.64	Pk	36.8	-25.7	.9	11.8	-40.84	-13	-27.84	0-360	300	V

Pk - Peak detector

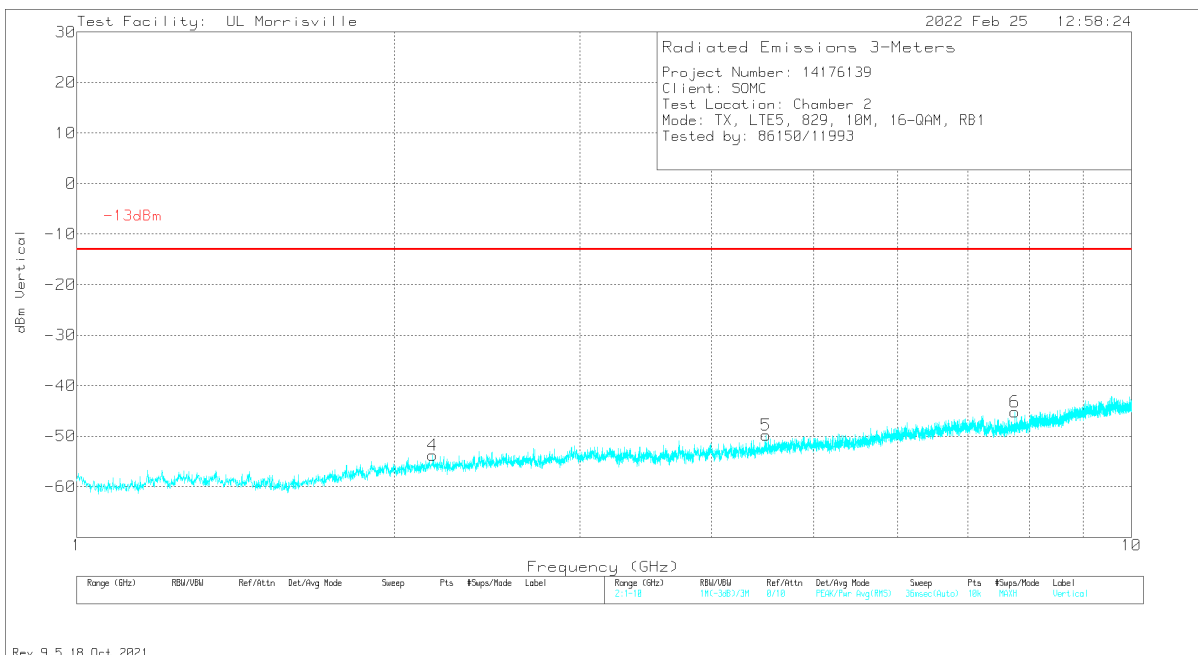
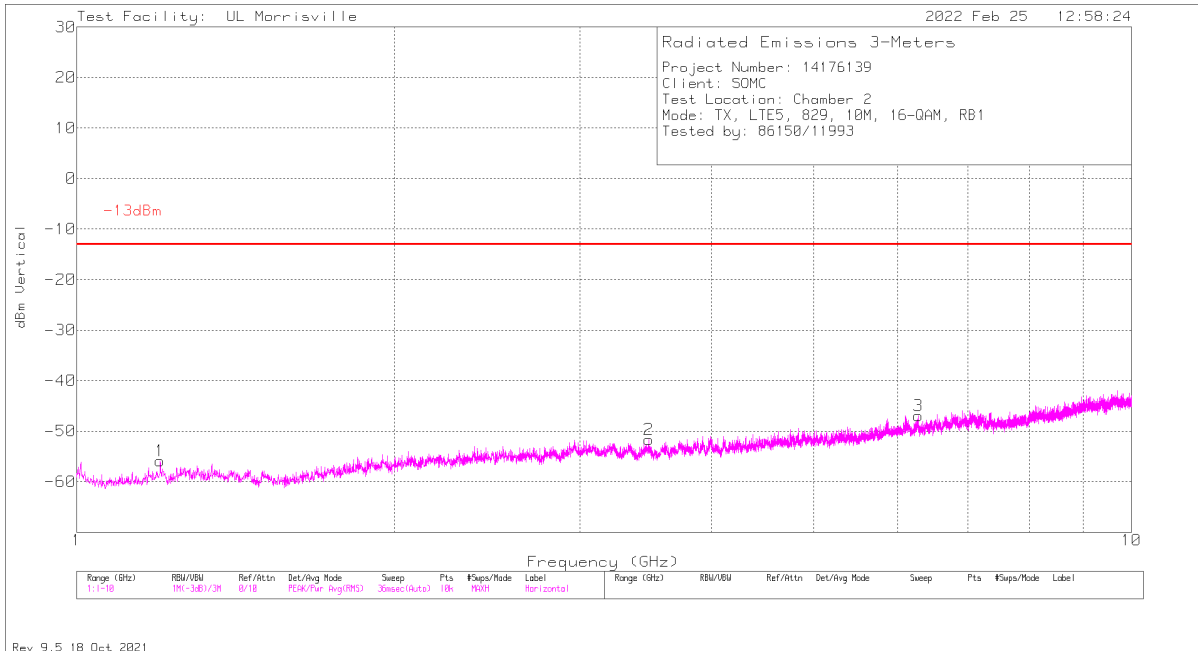
QPSK 10MHz 844MHz High Channel



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	1.1692	-62.56	Pk	28	-34.8	1.1	11.8	-56.46	-13	-43.46	0-360	200	V
1	1.4167	-62.33	Pk	28.5	-34.9	.9	11.8	-56.03	-13	-43.03	0-360	200	H
6	2.1673	-62.81	Pk	31.6	-34	.4	11.8	-53.01	-13	-40.01	0-360	200	V
2	2.548	-63.09	Pk	32.6	-33.7	.5	11.8	-51.89	-13	-38.89	0-360	200	H
7	3.8755	-63.44	Pk	33.4	-32.2	.5	11.8	-49.94	-13	-36.94	0-360	200	V
4	4.2841	-64.05	Pk	33.7	-32	.4	11.8	-50.15	-13	-37.15	0-360	101	H
3	5.8231	-65.85	Pk	35.1	-29.3	.5	11.8	-47.75	-13	-34.75	0-360	300	H
8	6.3892	-65.34	Pk	35.5	-28.7	.8	11.8	-45.94	-13	-32.94	0-360	101	V

Pk - Peak detector

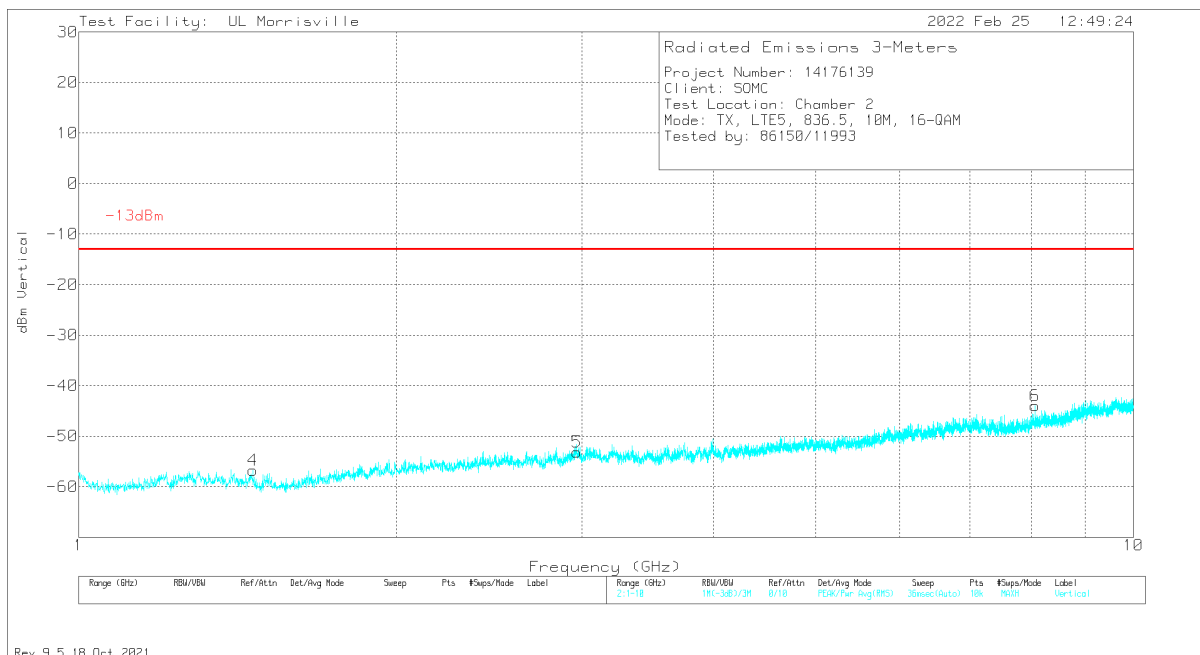
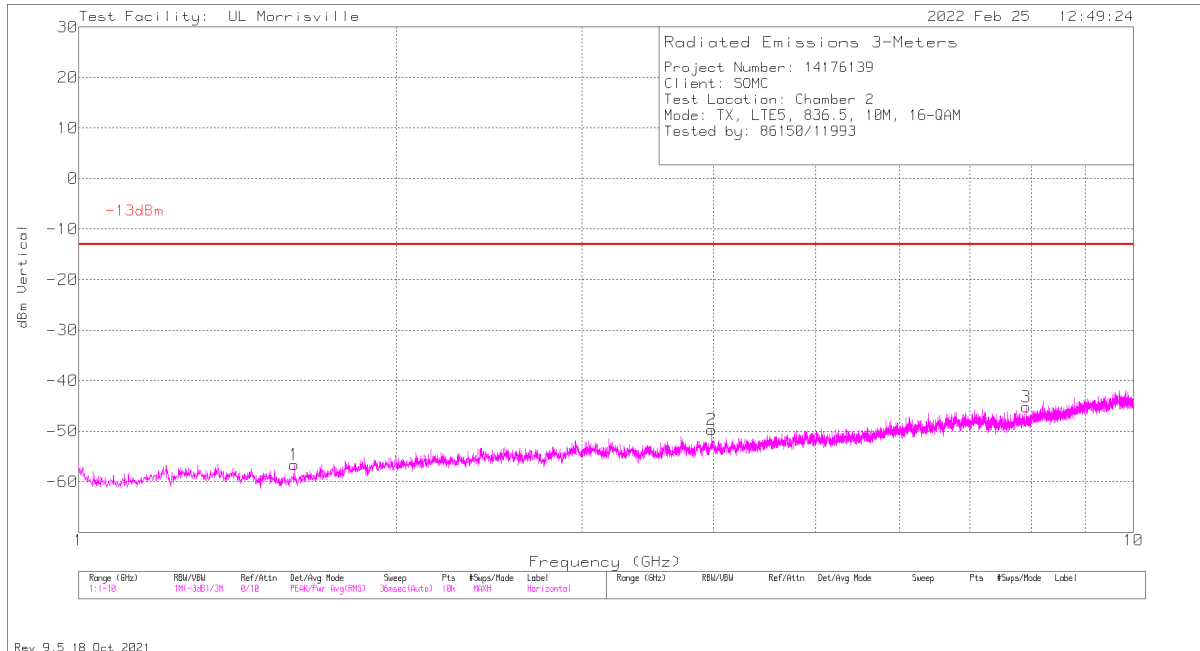
16QAM 10Mhz 829MHz Low Channel



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.1998	-62.81	Pk	29	-35	1.1	11.8	-55.91	-13	-42.91	0-360	101	H
4	2.1763	-63.62	Pk	31.8	-34.1	.4	11.8	-53.72	-13	-40.72	0-360	200	V
2	3.4885	-63.93	Pk	32.9	-33	.6	11.8	-51.63	-13	-38.63	0-360	300	H
5	4.5037	-64.33	Pk	34	-31.7	.4	11.8	-49.83	-13	-36.83	0-360	200	V
3	6.283	-66.16	Pk	35.5	-28.8	.7	11.8	-46.96	-13	-33.96	0-360	300	H
6	7.7509	-65.73	Pk	35.8	-27.6	.5	11.8	-45.23	-13	-32.23	0-360	300	V

Pk - Peak detector

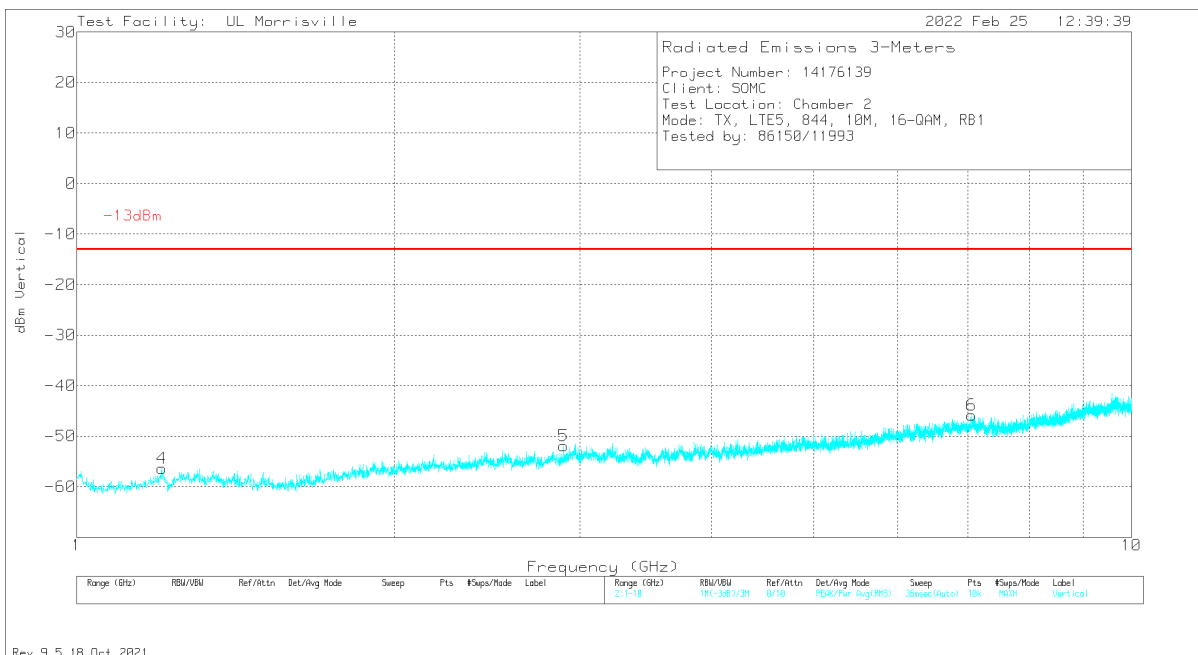
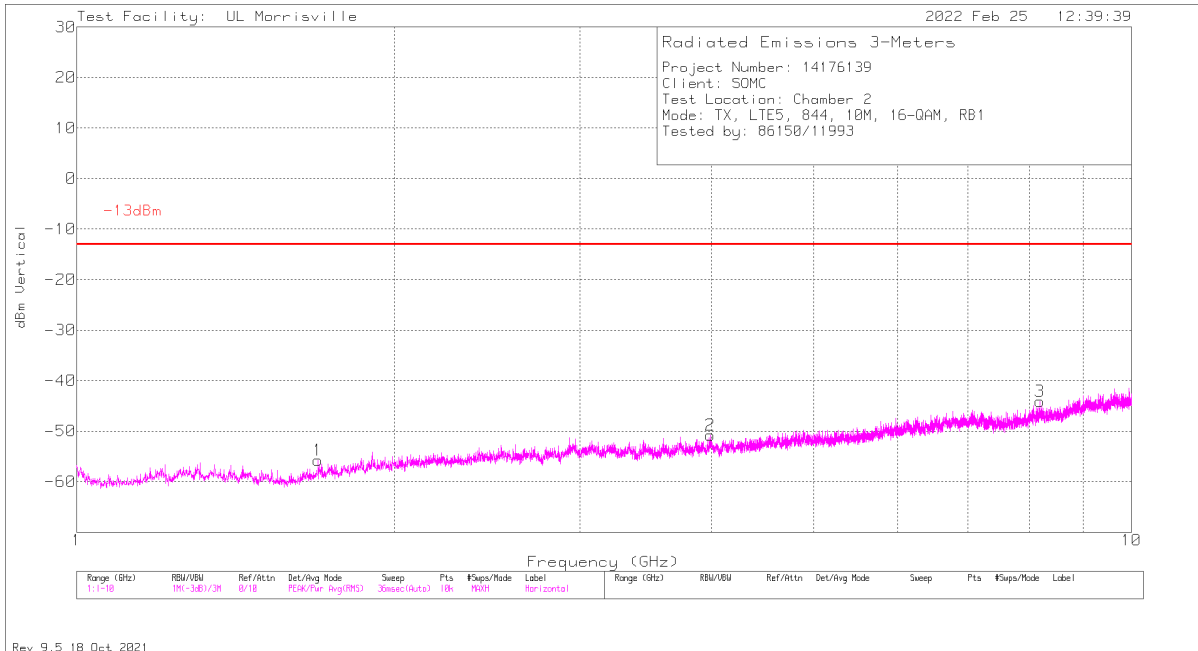
16QAM 10MHz 836.5MHz Mid Channel



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.4626	-63.42	Pk	28.8	-34.7	.8	11.8	-56.72	-13	-43.72	0-360	200	V
1	1.6003	-62.47	Pk	28.2	-34.7	.5	11.8	-56.67	-13	-43.67	0-360	101	H
5	2.9665	-65.69	Pk	33.2	-33.1	.6	11.8	-53.19	-13	-40.19	0-360	101	V
2	3.9835	-63.67	Pk	33.6	-31.9	.5	11.8	-49.67	-13	-36.67	0-360	101	H
3	7.9156	-66.57	Pk	35.9	-26.8	.5	11.8	-45.17	-13	-32.17	0-360	299	H
6	8.0704	-65.16	Pk	35.8	-26.8	.4	11.8	-43.96	-13	-30.96	0-360	101	V

Pk - Peak detector

16QAM 10MHz 844MHz High Channel

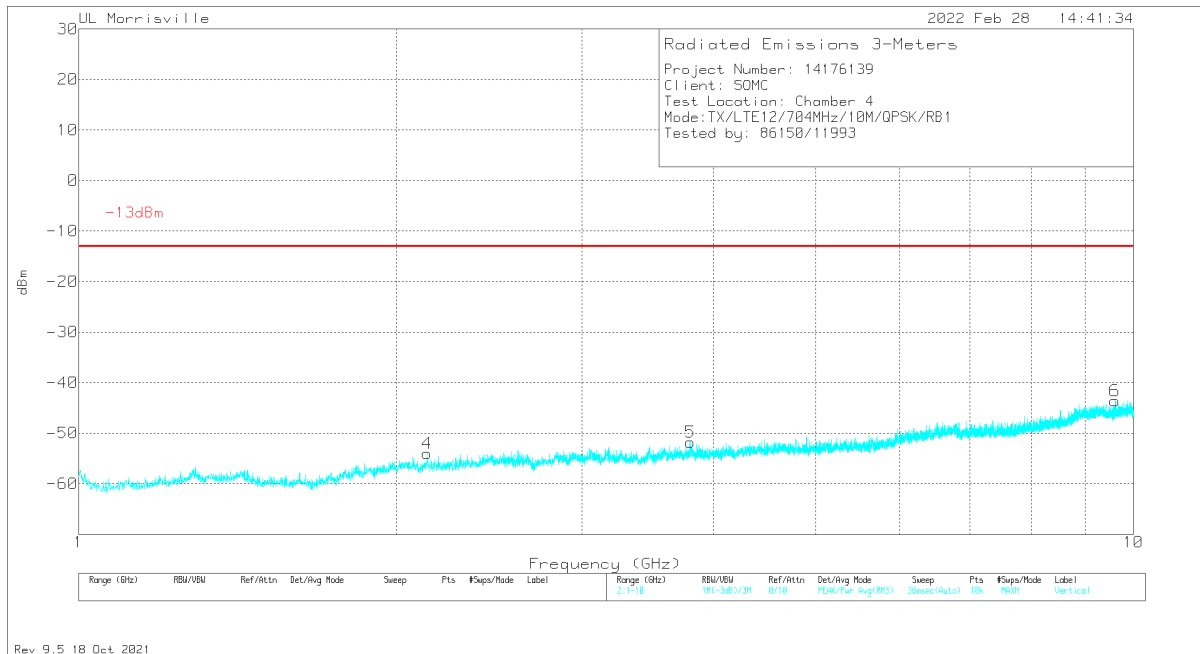
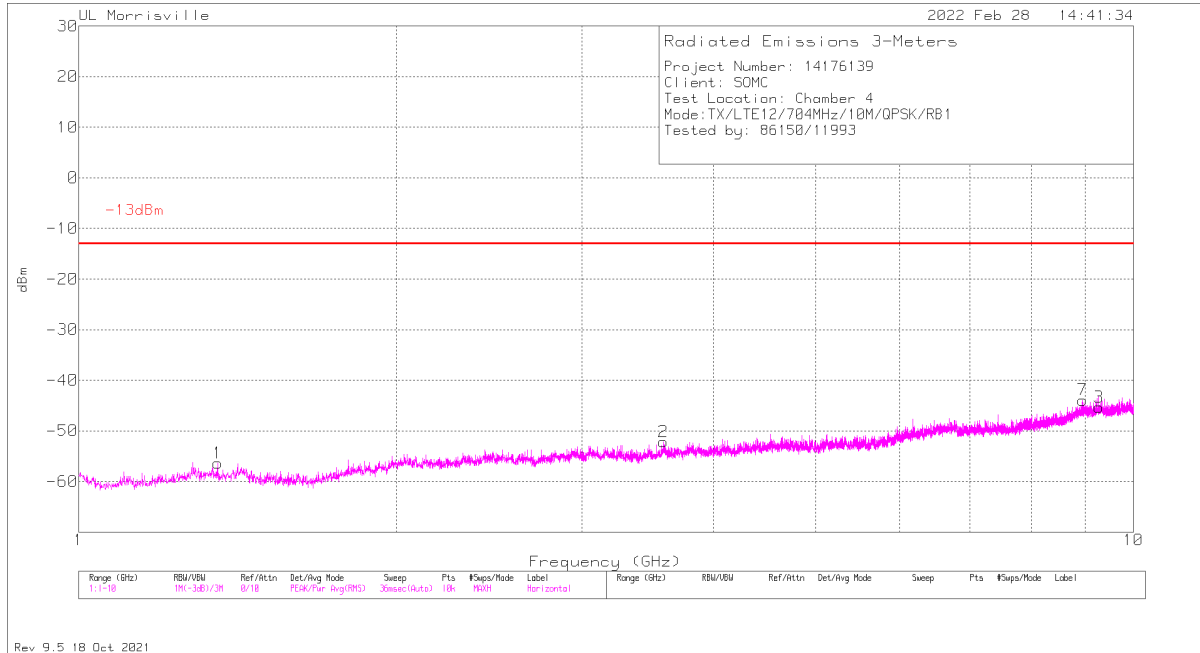


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.2043	-63.29	Pk	29.1	-35.1	1.1	11.8	-56.39	-13	-43.39	0-360	300	V
1	1.6939	-62.95	Pk	29.3	-34.4	.5	11.8	-55.75	-13	-42.75	0-360	200	H
5	2.8954	-63.2	Pk	32.7	-33.7	.5	11.8	-51.9	-13	-38.9	0-360	300	V
2	3.9889	-64.98	Pk	33.6	-31.7	.5	11.8	-50.78	-13	-37.78	0-360	200	H
6	7.0579	-66.14	Pk	35.8	-27.9	.6	11.8	-45.84	-13	-32.84	0-360	200	V
3	8.1856	-65.14	Pk	35.8	-27	.4	11.8	-44.14	-13	-31.14	0-360	200	H

Pk - Peak detector

10.1.6. LTE12

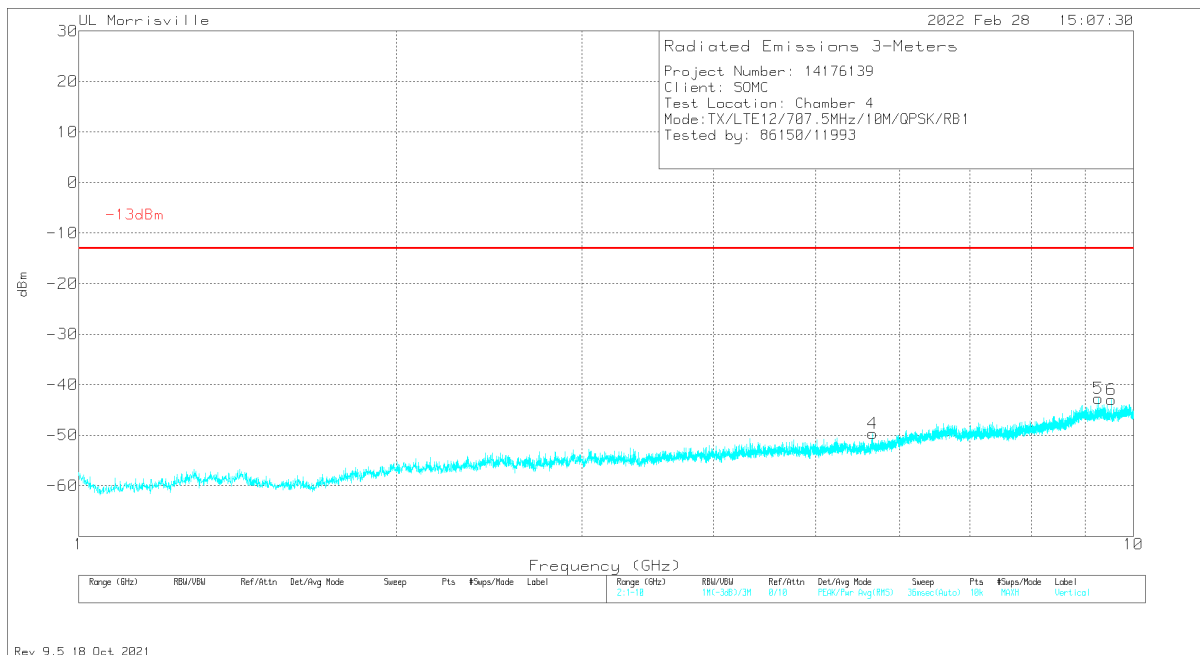
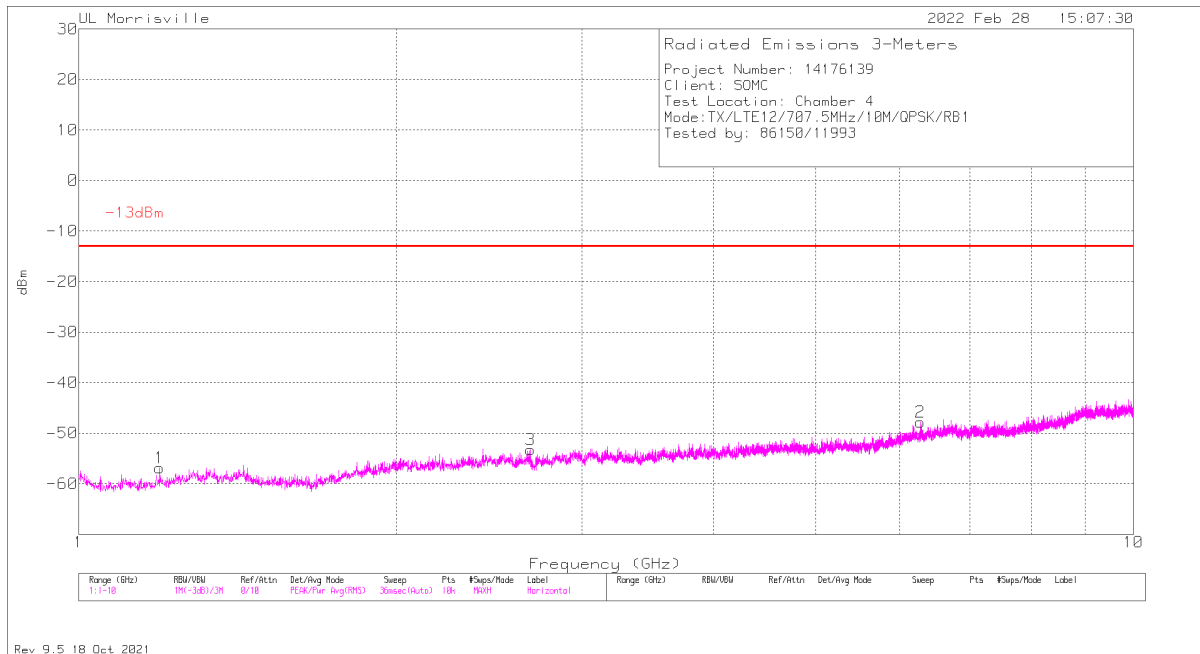
QPSK 10MHz 704MHz Low Channel



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.3546	-61.73	Pk	29.3	-36.6	.8	11.8	-56.43	-13	-43.43	0-360	100	H
4	2.1403	-61.16	Pk	31.6	-36.7	.4	11.8	-54.06	-13	-41.06	0-360	200	V
2	3.5839	-62.75	Pk	33	-34.9	.7	11.8	-52.15	-13	-39.15	0-360	100	H
5	3.799	-63.01	Pk	33.4	-34.2	.2	11.8	-51.81	-13	-38.81	0-360	300	V
7	8.9542	-65.4	Pk	35.9	-26.8	.6	11.8	-43.9	-13	-30.9	0-360	100	H
3	9.2782	-67.17	Pk	36.4	-26.9	.5	11.8	-45.37	-13	-32.37	0-360	100	H
6	9.604	-66	Pk	36.6	-26.8	.8	11.8	-43.6	-13	-30.6	0-360	200	V

Pk - Peak detector

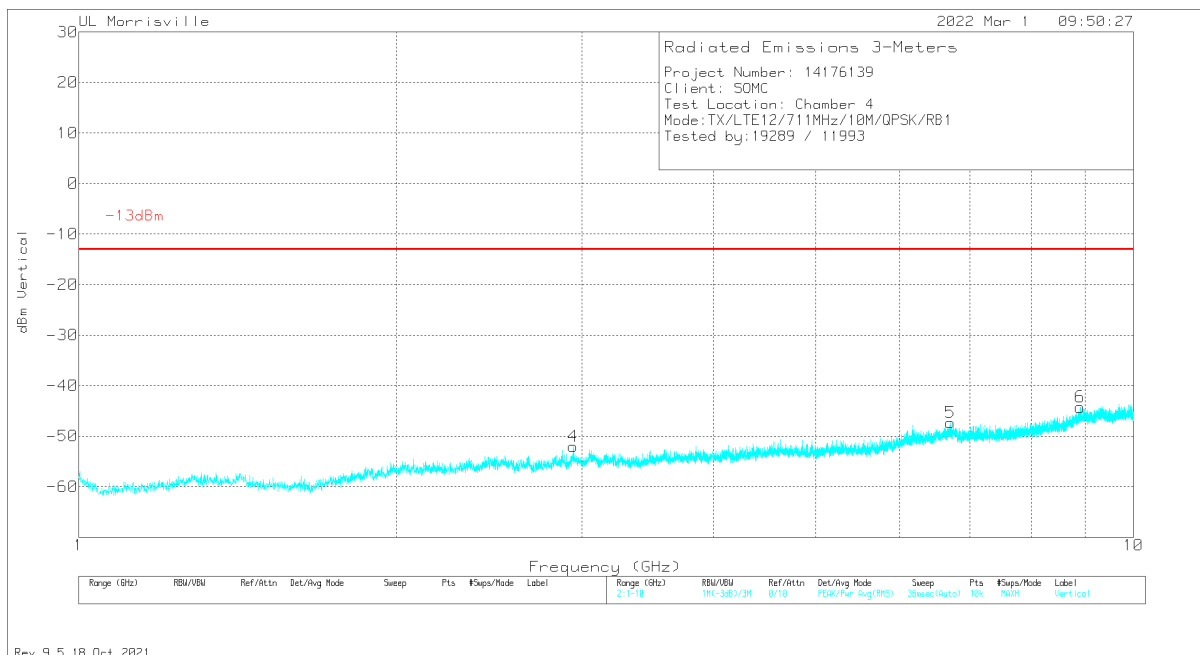
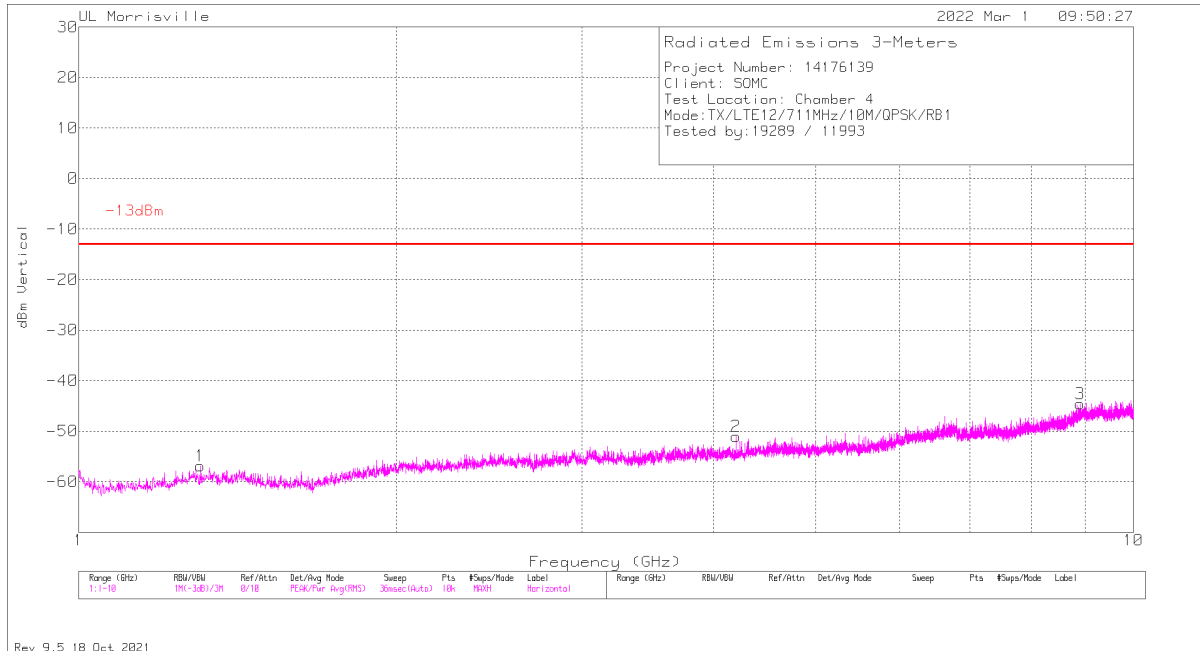
QPSK 10MHz 707.5MHz Mid Channel



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.1935	-61.32	Pk	27.9	-36.4	1.1	11.8	-56.92	-13	-43.92	0-360	100	H
3	2.6812	-61.03	Pk	31.9	-36.5	.5	11.8	-53.33	-13	-40.33	0-360	100	H
4	5.6566	-64.6	Pk	34.5	-31.9	.5	11.8	-49.7	-13	-36.7	0-360	300	V
2	6.2812	-65.17	Pk	35.4	-30.5	.7	11.8	-47.77	-13	-34.77	0-360	100	H
5	9.2602	-64.44	Pk	36.3	-27	.6	11.8	-42.74	-13	-29.74	0-360	300	V
6	9.5275	-65.28	Pk	36.5	-26.8	.8	11.8	-42.98	-13	-29.98	0-360	300	V

Pk - Peak detector

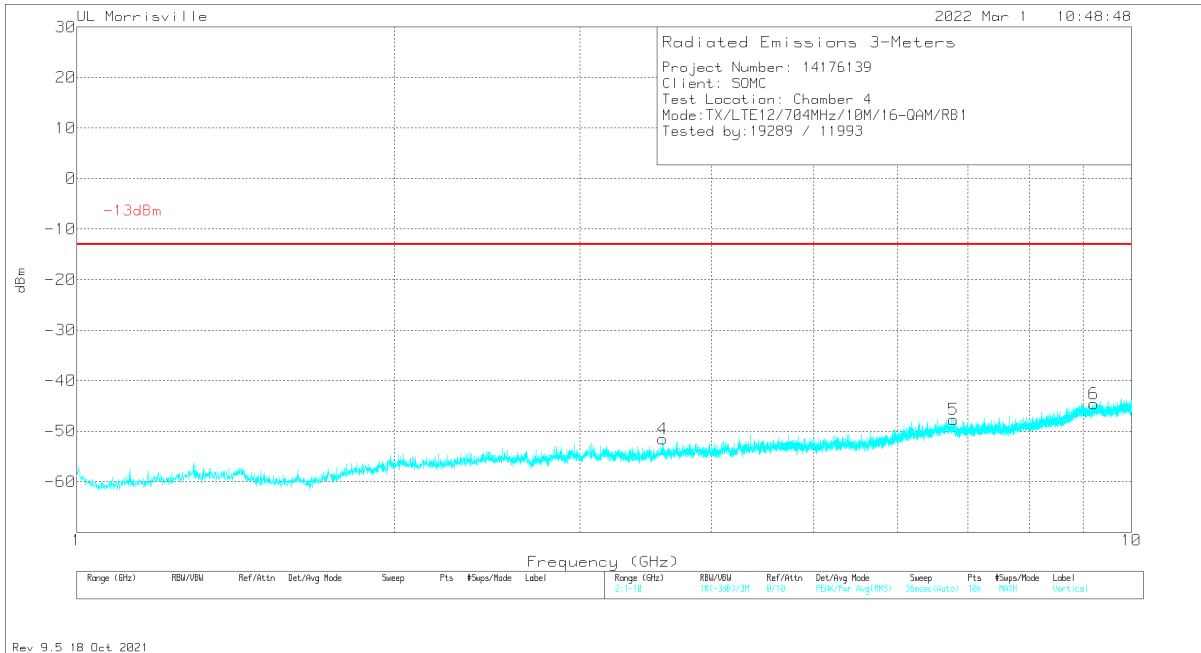
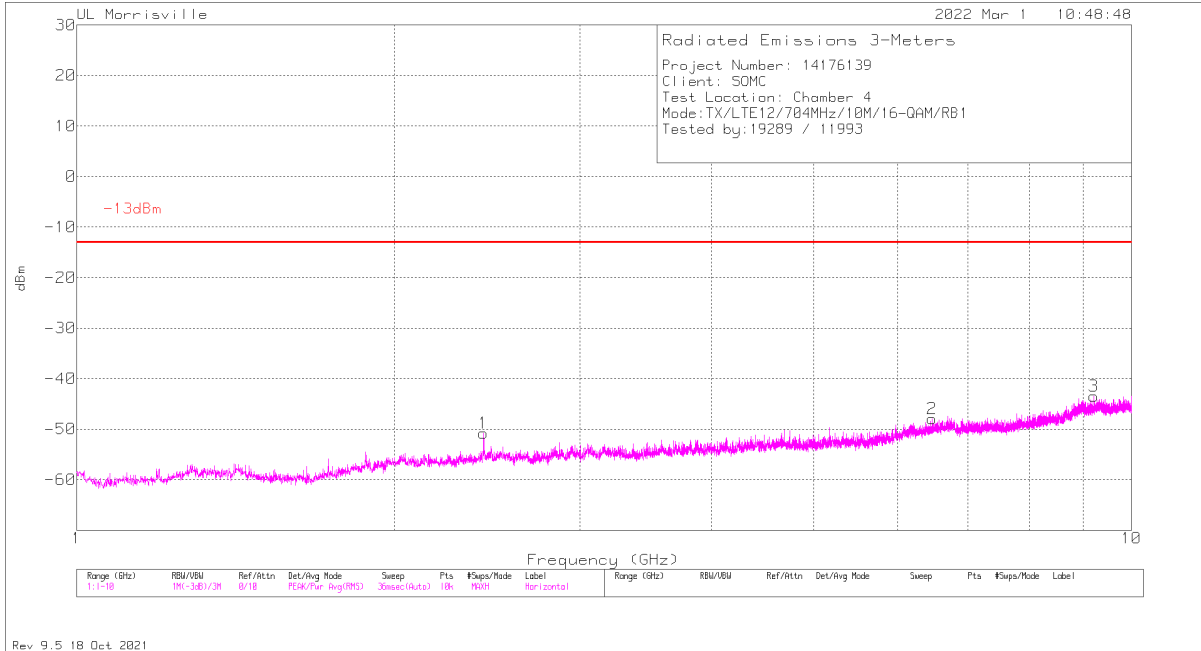
QPSK 10MHz 711MHz High Channel



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.3033	-62.33	Pk	29	-36.4	1	11.8	-56.93	-13	-43.93	0-360	100	H
4	2.9431	-60.78	Pk	32.7	-36.3	.6	11.8	-51.98	-13	-38.98	0-360	200	V
2	4.2004	-63.04	Pk	33.2	-33.2	.2	11.8	-51.04	-13	-38.04	0-360	100	H
5	6.7051	-65.64	Pk	35.5	-29.6	.6	11.8	-47.34	-13	-34.34	0-360	300	V
3	8.9038	-65.95	Pk	36	-26.9	.5	11.8	-44.55	-13	-31.55	0-360	100	H
6	8.9065	-65.67	Pk	36	-26.9	.5	11.8	-44.27	-13	-31.27	0-360	300	V

Pk - Peak detector

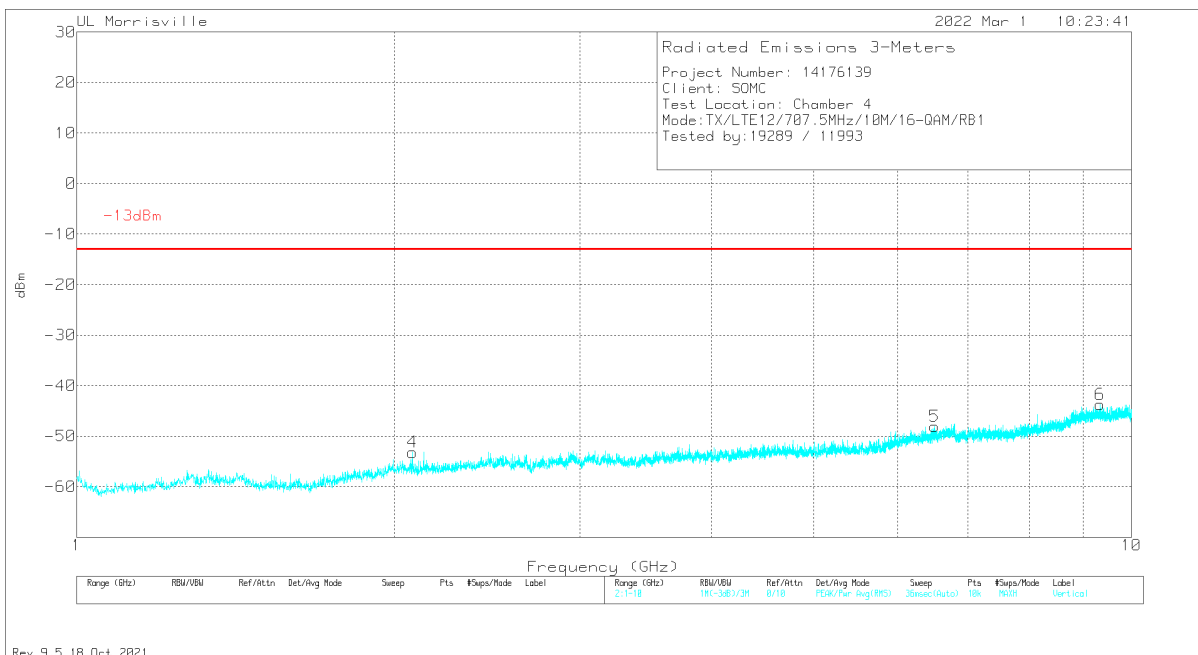
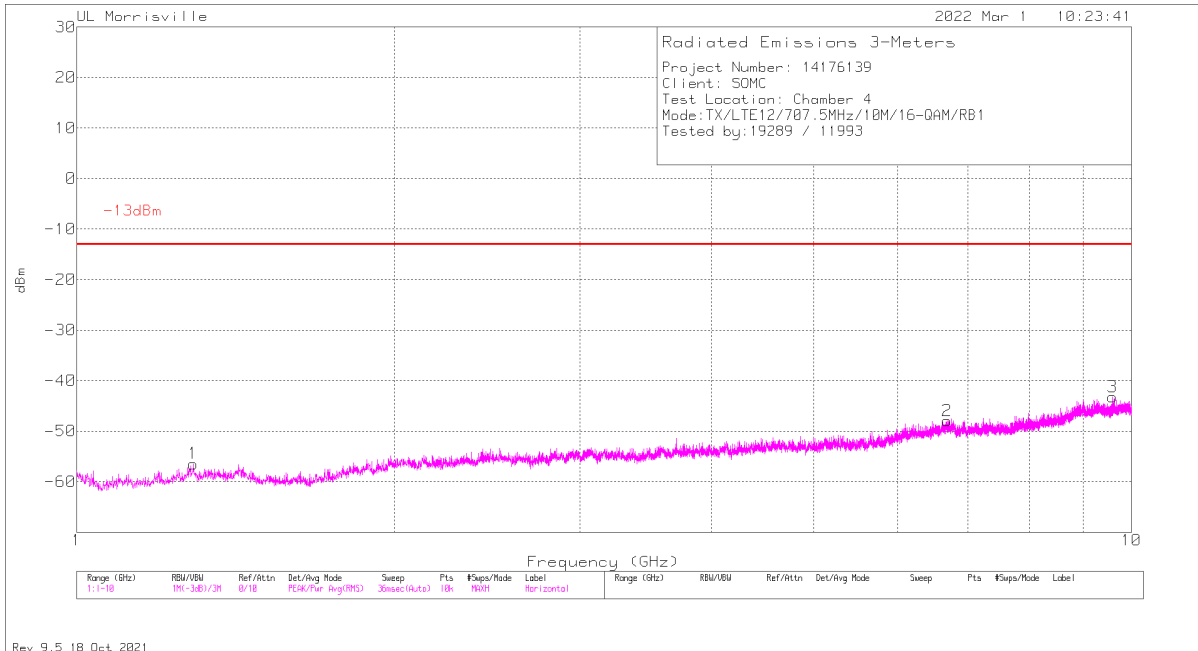
16QAM 10MHz 704MHz Low Channel



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.431	-58.74	Pk	32.3	-36.6	.4	11.8	-50.84	-13	-37.84	0-360	100	H
4	3.592	-62.28	Pk	33	-34.8	.7	11.8	-51.58	-13	-38.58	0-360	200	V
2	6.4684	-65.88	Pk	35.4	-29.9	.7	11.8	-47.88	-13	-34.88	0-360	100	H
5	6.7834	-66.05	Pk	35.5	-29.6	.7	11.8	-47.65	-13	-34.65	0-360	300	V
3	9.2089	-65.16	Pk	36.2	-27	.7	11.8	-43.46	-13	-30.46	0-360	200	H
6	9.2134	-66.28	Pk	36.2	-27	.7	11.8	-44.58	-13	-31.58	0-360	200	V

Pk - Peak detector

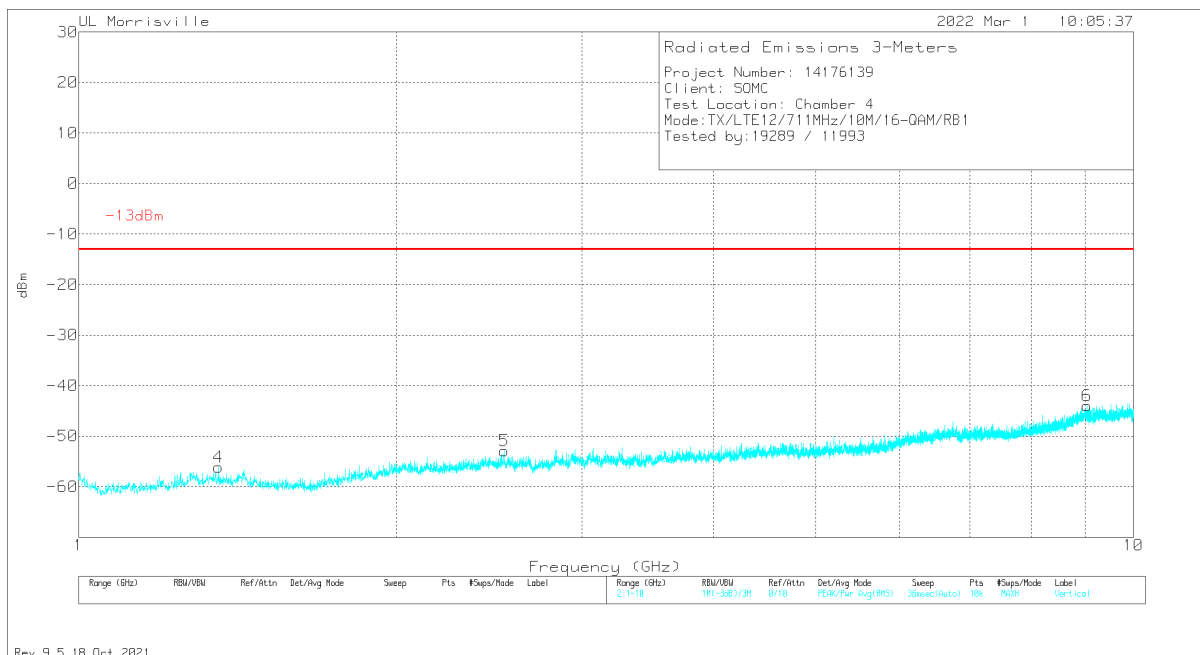
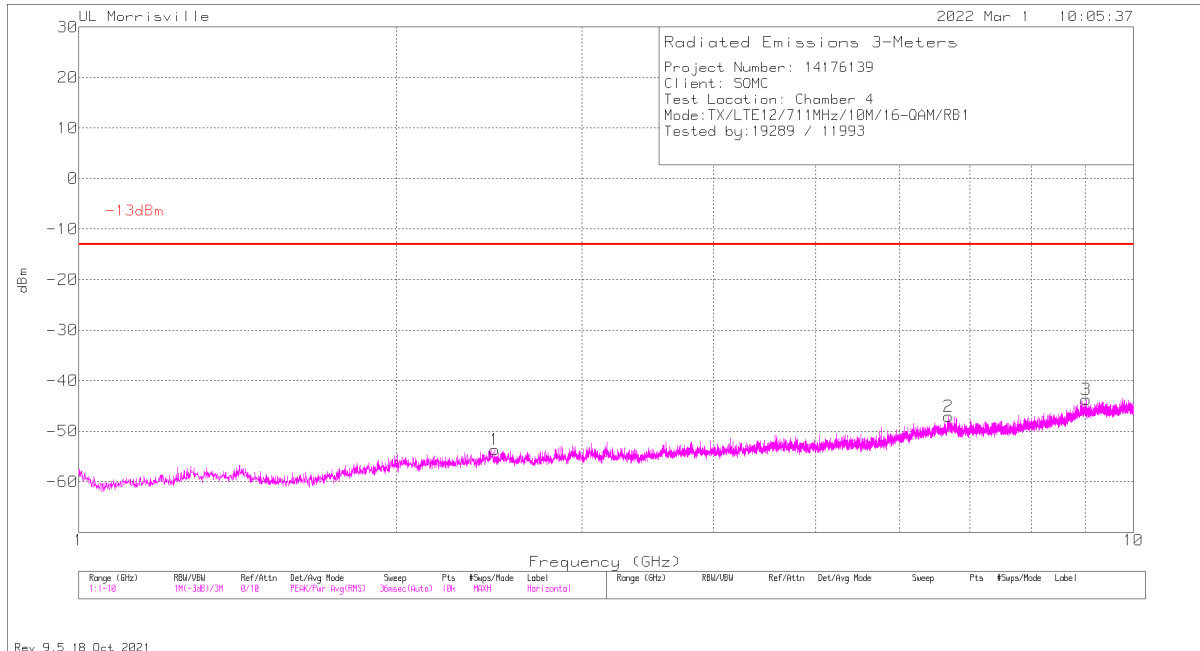
16QAM 10MHz 707.5MHz Mid Channel



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.2898	-61.94	Pk	29.1	-36.4	1	11.8	-56.44	-13	-43.44	0-360	200	H
4	2.0809	-60.21	Pk	31.6	-36.7	.3	11.8	-53.21	-13	-40.21	0-360	200	V
5	6.5044	-66.26	Pk	35.5	-29.8	.7	11.8	-48.06	-13	-35.06	0-360	300	V
2	6.6898	-66.28	Pk	35.5	-29.6	.6	11.8	-47.98	-13	-34.98	0-360	200	H
6	9.3376	-66.15	Pk	36.4	-26.5	.7	11.8	-43.75	-13	-30.75	0-360	200	V
3	9.6022	-65.6	Pk	36.6	-26.8	.8	11.8	-43.2	-13	-30.2	0-360	200	H

Pk - Peak detector

16QAM 10MHz 711MHz High Channel

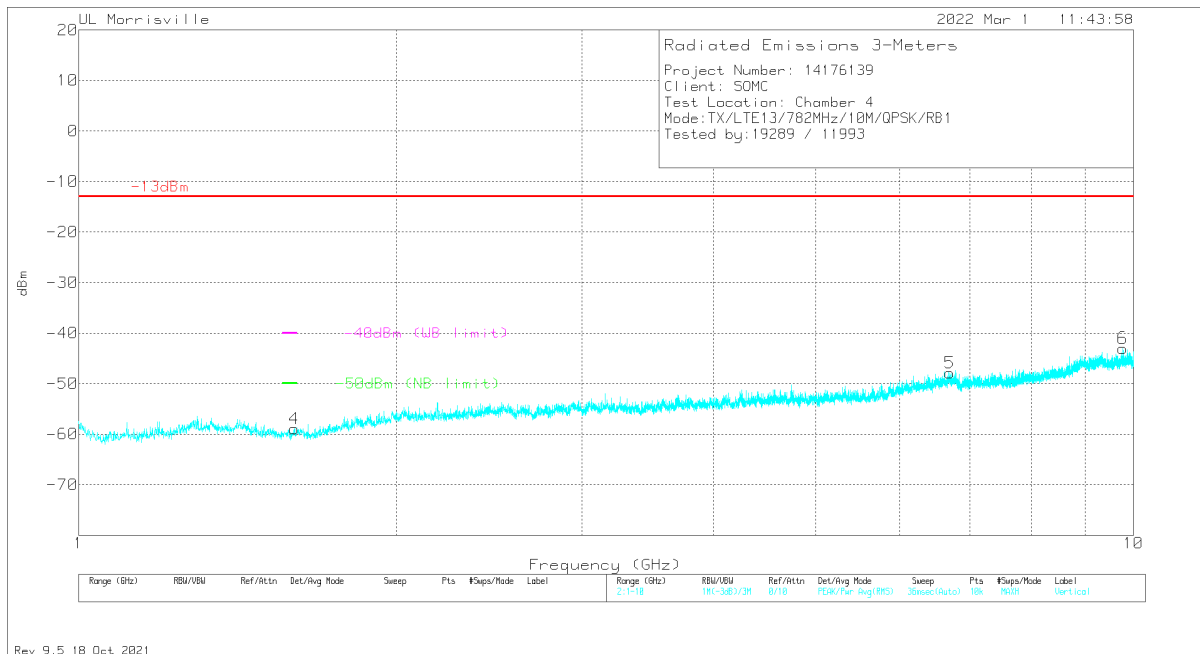
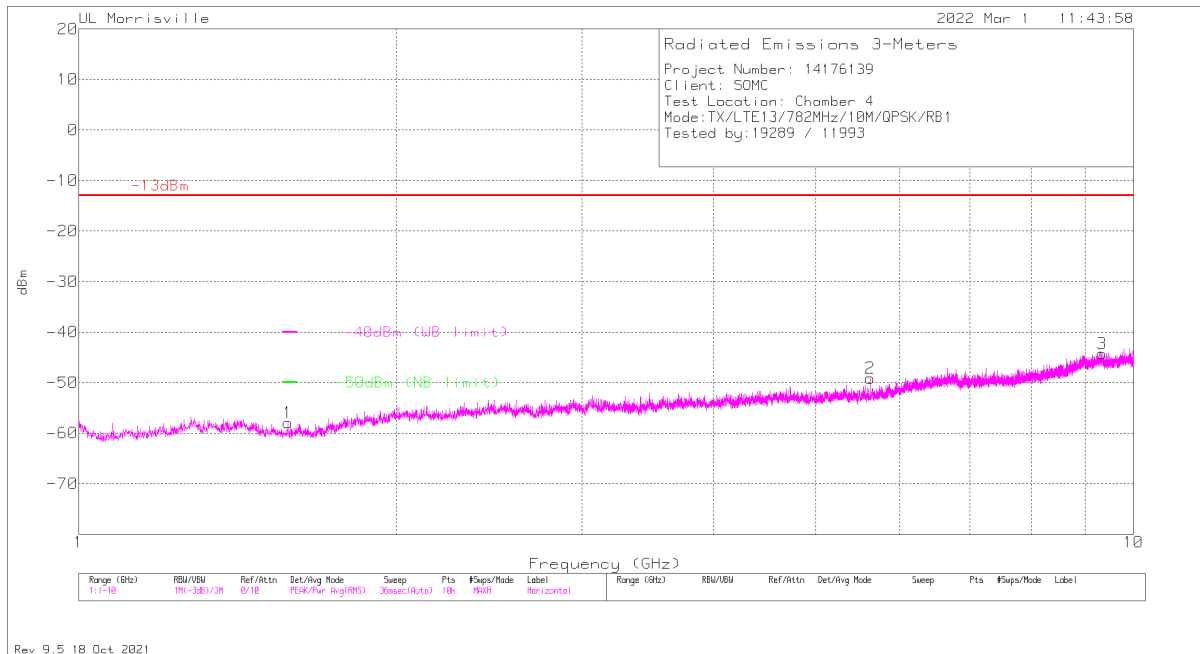


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.3573	-61.38	Pk	29.3	-36.6	.8	11.8	-56.08	-13	-43.08	0-360	300	V
1	2.4796	-61.7	Pk	32.6	-36.7	.4	11.8	-53.6	-13	-40.6	0-360	100	H
5	2.53	-60.95	Pk	32.5	-36.7	.4	11.8	-52.95	-13	-39.95	0-360	300	V
2	6.6763	-65.42	Pk	35.5	-29.6	.6	11.8	-47.12	-13	-34.12	0-360	200	H
3	9.0181	-65.29	Pk	35.9	-26.6	.5	11.8	-43.69	-13	-30.69	0-360	200	H
6	9.0343	-65.47	Pk	35.9	-26.7	.5	11.8	-43.97	-13	-30.97	0-360	200	V

Pk - Peak detector

10.1.7. LTE13

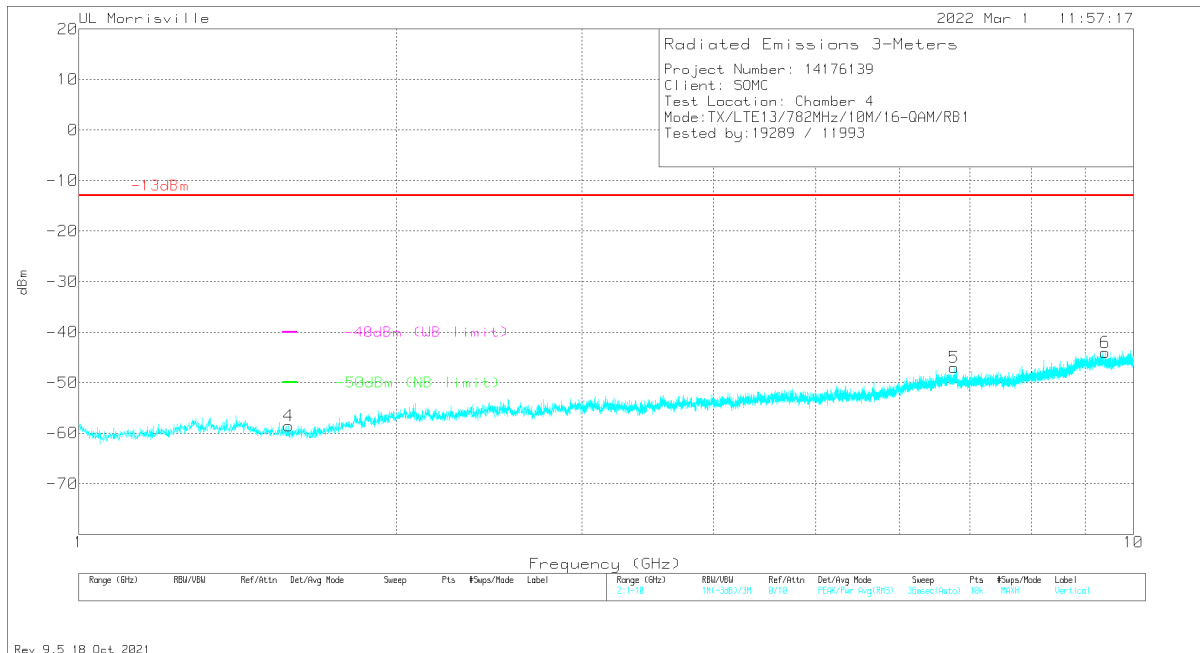
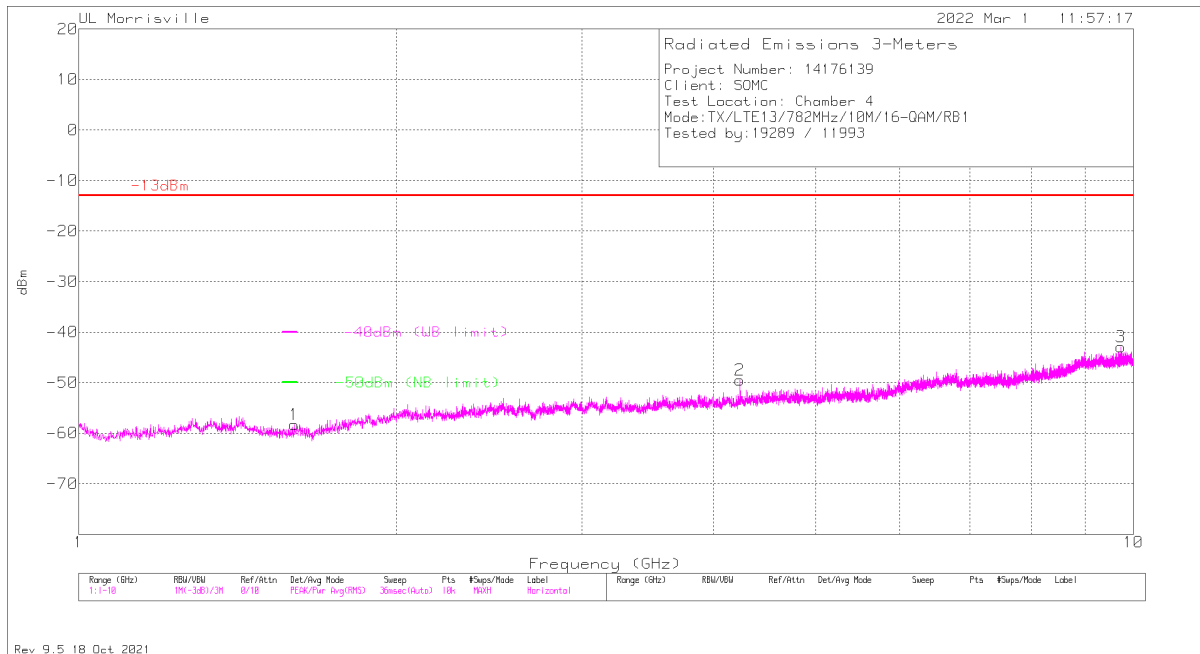
QPSK 10MHz 782MHz Mid Channel



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	-40dBm (WB limit)	Margin (dB)	-50dBm (NB limit)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.5787	-61.62	Pk	27.9	-36.6	.6	11.8	-57.92	-13	-44.92	-40	-17.92	-50	-7.92	0-360	100	H
4	1.6012	-62.57	Pk	28	-36.7	.5	11.8	-58.97	-13	-45.97	-40	-18.97	-50	-8.97	0-360	300	V
2	5.6287	-63.54	Pk	34.4	-32.2	.4	11.8	-49.14	-13	-36.14	-	-	-	-	0-360	100	H
5	6.6979	-66.03	Pk	35.5	-29.7	.6	11.8	-47.83	-13	-34.83	-	-	-	-	0-360	300	V
3	9.334	-66.63	Pk	36.4	-26.5	.7	11.8	-44.23	-13	-31.23	-	-	-	-	0-360	200	H
6	9.7651	-65.28	Pk	36.7	-27.1	.9	11.8	-42.98	-13	-29.98	-	-	-	-	0-360	200	V

Pk - Peak detector

16QAM 10MHz 782MHz Mid Channel

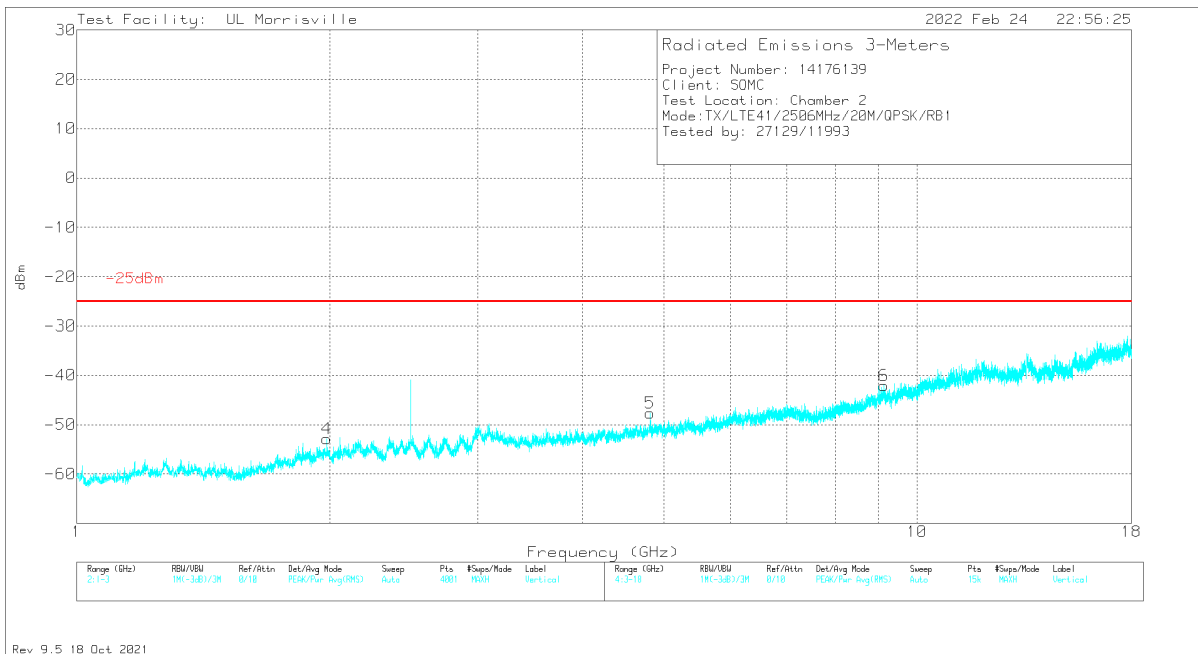
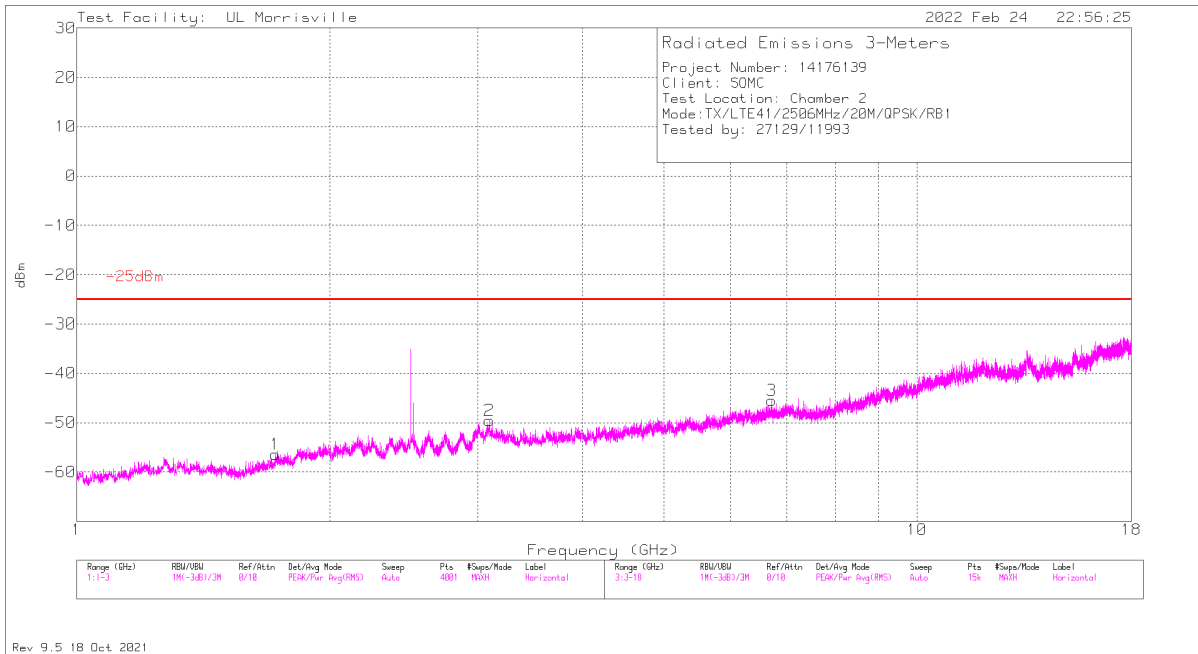


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	-40dBm (WB limit)	Margin (dB)	-50dBm (NB limit)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.5805	-62.31	Pk	27.9	-36.6	.6	11.8	-58.61	-13	-45.61	-40	-18.61	-50	-8.61	0-360	200	V
1	1.6012	-61.94	Pk	28	-36.7	.5	11.8	-58.34	-13	-45.34	-40	-18.34	-50	-8.34	0-360	100	H
2	4.2346	-62.15	Pk	33.3	-32.9	.4	11.8	-49.55	-13	-36.55	-	-	-	-	0-360	100	H
5	6.7645	-65.13	Pk	35.5	-29.9	.7	11.8	-47.03	-13	-34.03	-	-	-	-	0-360	300	V
6	9.4024	-66.02	Pk	36.4	-26.8	.6	11.8	-44.02	-13	-31.02	-	-	-	-	0-360	300	V
3	9.7354	-65.16	Pk	36.7	-27.1	.8	11.8	-42.96	-13	-29.96	-	-	-	-	0-360	100	H

Pk - Peak detector

10.1.8. LTE41

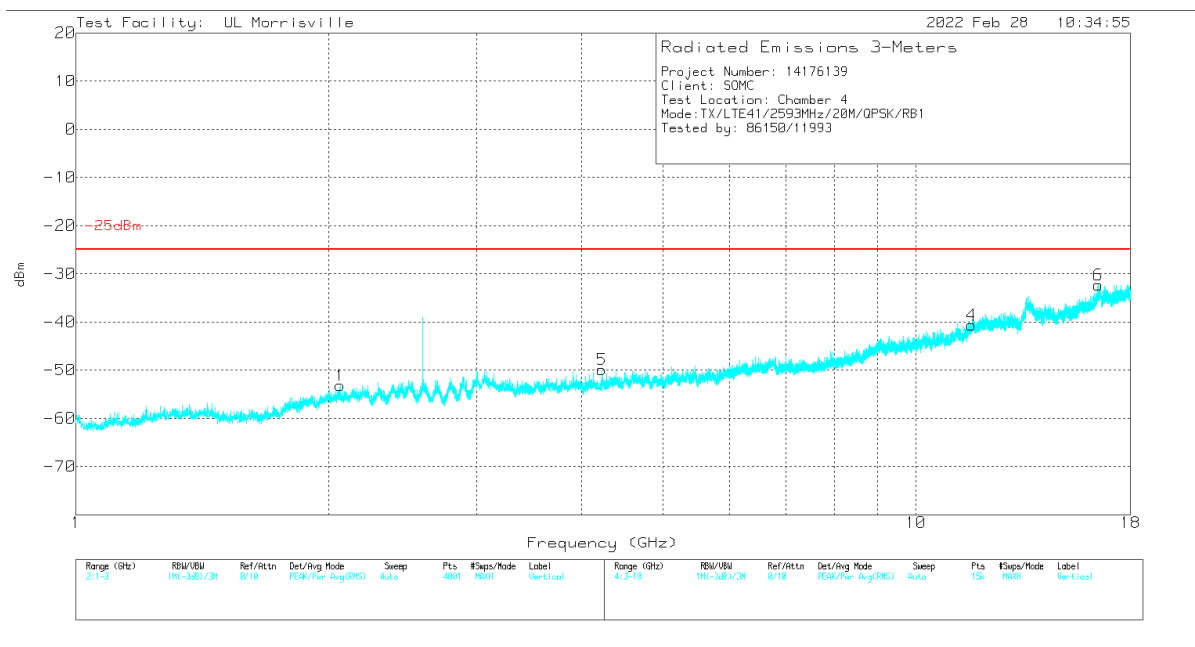
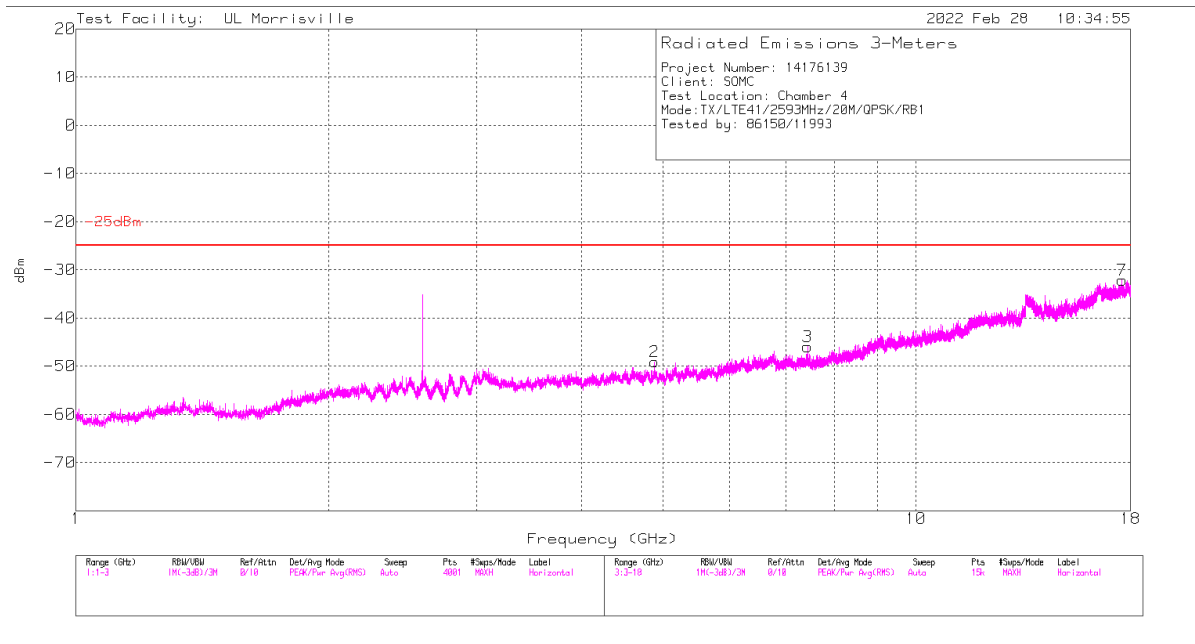
QPSK 20MHz 2506MHz Low Channel



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.724	-64.04	Pk	29.5	-34.5	11.8	.8	-56.44	-25	-31.44	0-360	101	H
4	1.984	-62.4	Pk	31	-34.3	11.8	1.1	-52.8	-25	-27.8	0-360	199	V
2	3.098	-63.83	Pk	33.2	-32.6	11.8	1.9	-49.53	-25	-24.53	0-360	300	H
5	4.811	-63.86	Pk	34.1	-30.2	11.8	.5	-47.66	-25	-22.66	0-360	200	V
3	6.72	-66.01	Pk	35.8	-27.5	11.8	.4	-45.51	-25	-20.51	0-360	300	H
6	9.139	-65.51	Pk	36.3	-25.3	11.8	.6	-42.11	-25	-17.11	0-360	101	V

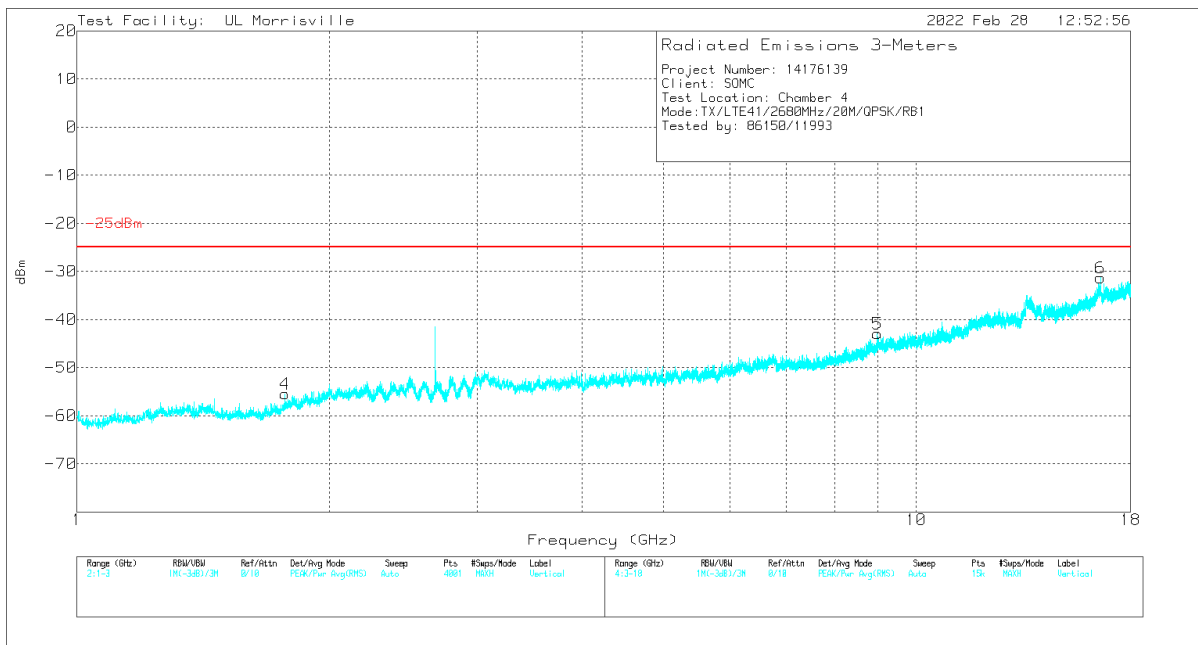
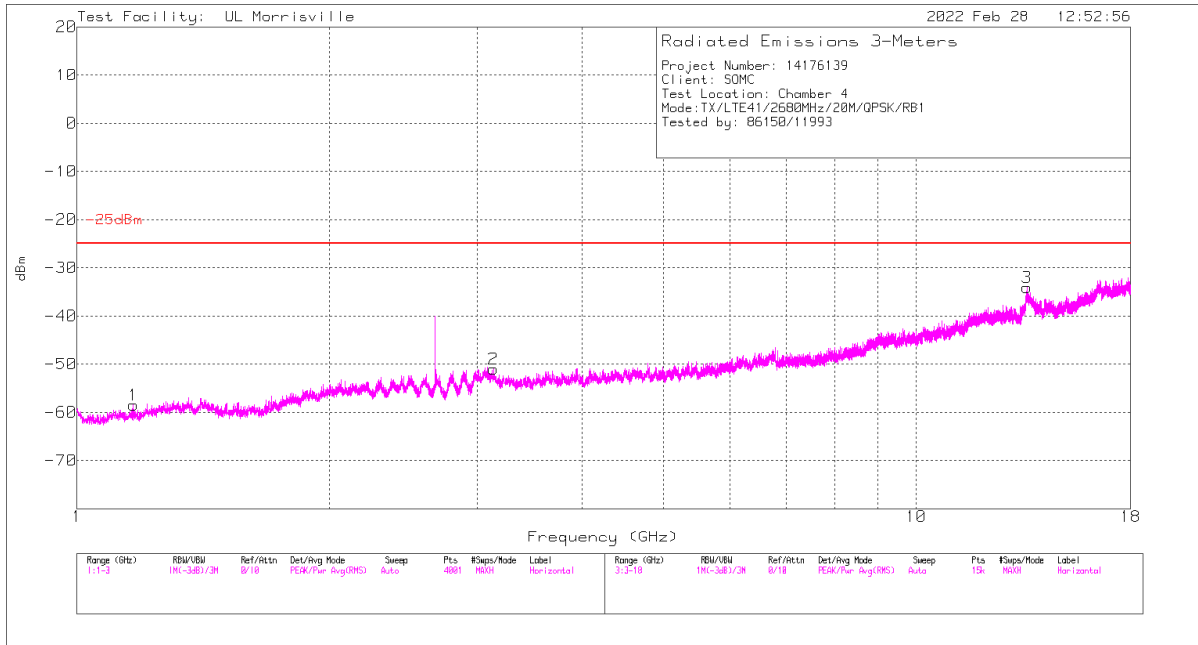
Pk - Peak detector

QPSK 20MHz 2593MHz Mid Channel



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.0625	-61.27	Pk	31.8	-36.7	11.8	1.2	-53.17	-25	-28.17	0-360	300	V
5	4.225	-63.44	Pk	33.3	-32.2	11.8	.6	-49.94	-25	-24.94	0-360	300	V
2	4.883	-63.41	Pk	33.9	-32.2	11.8	.8	-49.11	-25	-24.11	0-360	100	H
3	7.424	-64.78	Pk	35.6	-29	11.8	.4	-45.98	-25	-20.98	0-360	100	H
4	11.643	-67.1	Pk	38.3	-24.2	11.8	.5	-40.7	-25	-15.7	0-360	200	V
6	16.479	-64.99	Pk	41.2	-21.1	11.8	.8	-32.29	-25	-7.29	0-360	200	V
7	17.586	-66.23	Pk	41.3	-20	11.8	1	-32.13	-25	-7.13	0-360	100	H

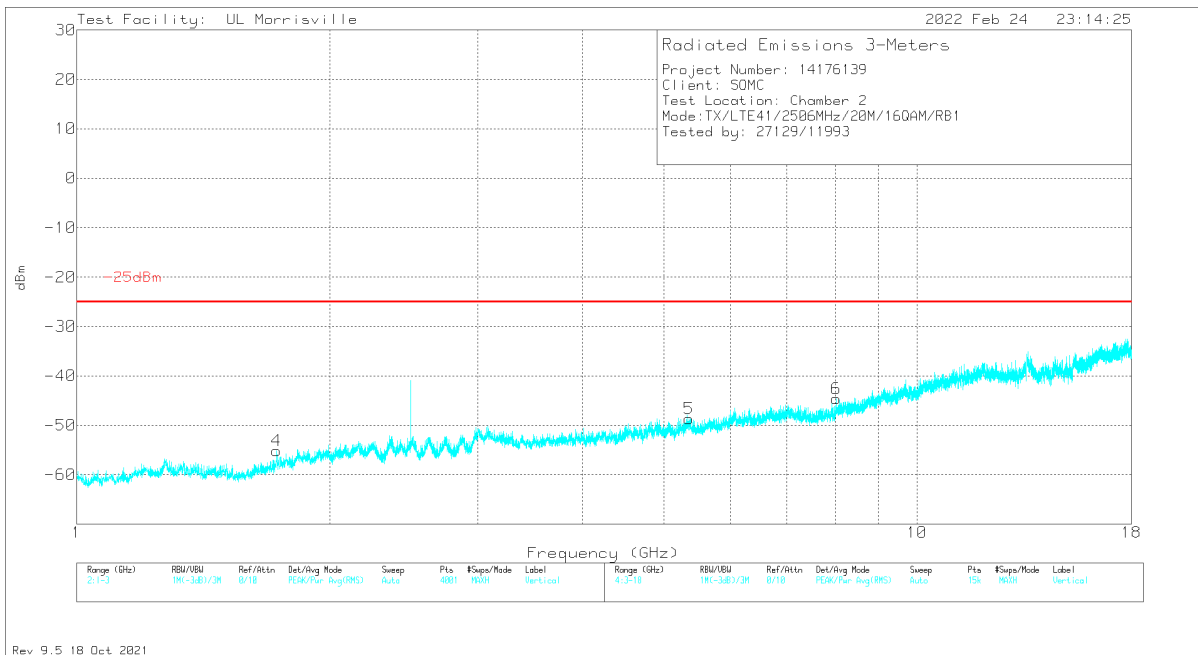
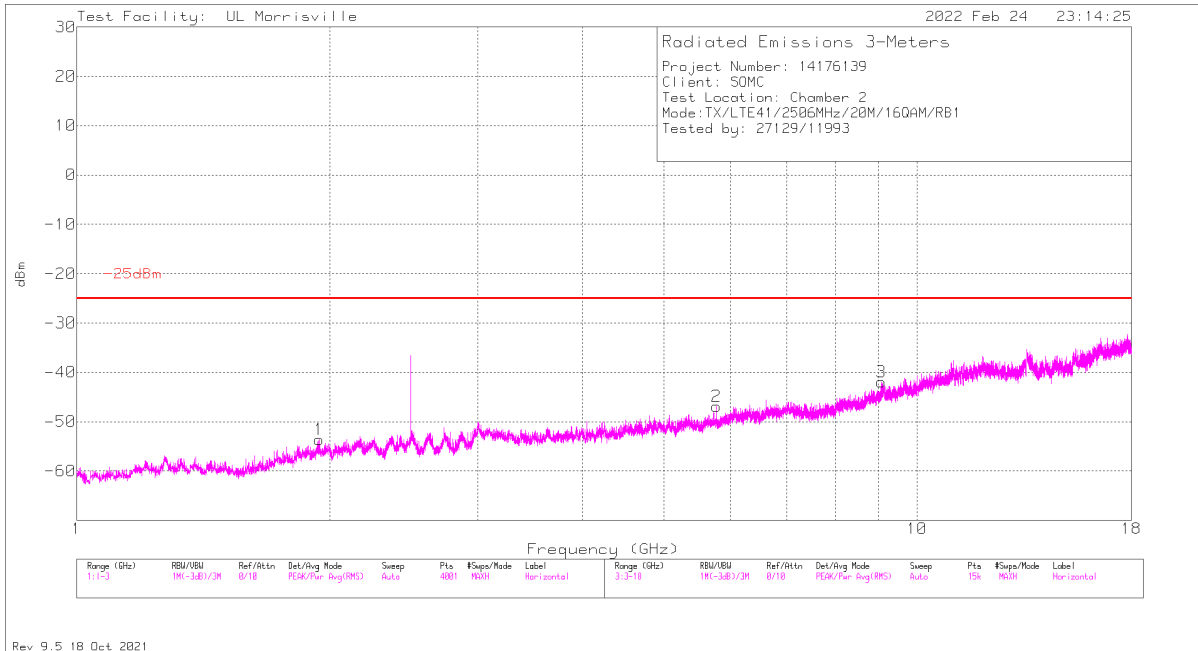
QPSK 20MHz 2680MHz High Channel



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.167	-62.11	Pk	27.5	-36.2	11.8	.5	-58.51	-25	-33.51	0-360	100	H
4	1.7695	-61	Pk	29.3	-36.6	11.8	1	-55.5	-25	-30.5	0-360	100	V
2	3.134	-62.23	Pk	32.8	-35	11.8	1.6	-51.03	-25	-26.03	0-360	200	H
5	8.985	-65	Pk	35.9	-26.3	11.8	.6	-43	-25	-18	0-360	300	V
3	13.541	-62.78	Pk	38.7	-22.6	11.8	.8	-34.08	-25	-9.08	0-360	100	H
6	16.574	-64.46	Pk	41.5	-21.2	11.8	1	-31.36	-25	-6.36	0-360	300	V

Pk - Peak detector

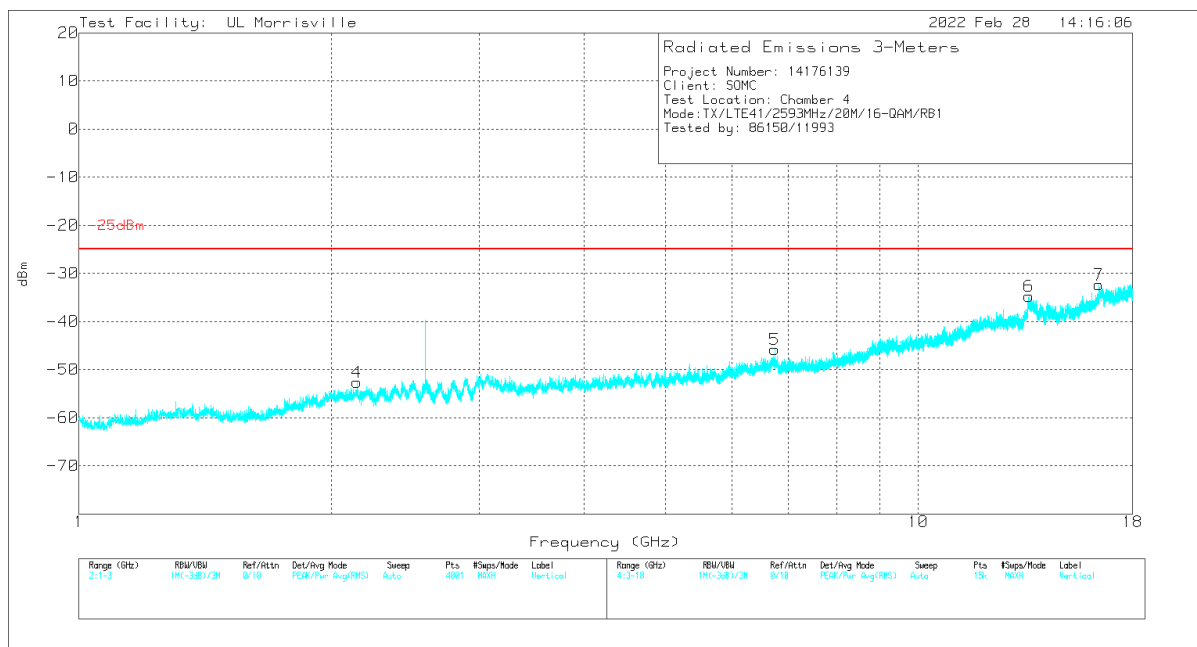
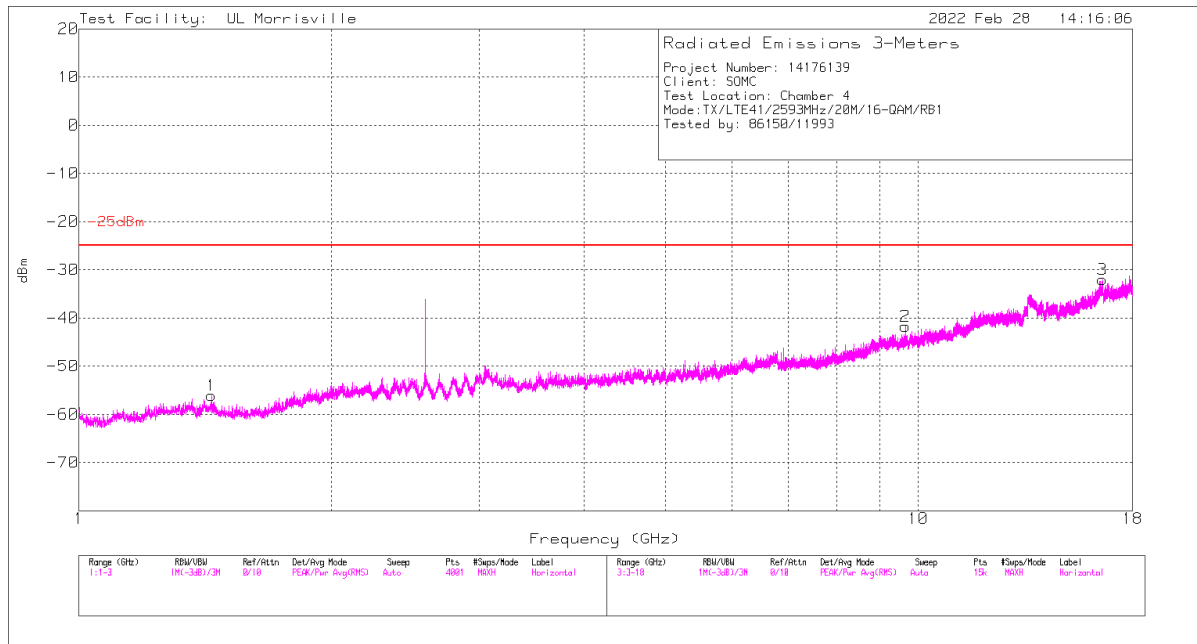
16QAM 20MHz 2506MHz Low Channel



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.7305	-63.1	Pk	29.7	-34.3	11.8	.8	-55.1	-25	-30.1	0-360	200	V
1	1.942	-63.23	Pk	31	-34.4	11.8	1.2	-53.63	-25	-28.63	0-360	299	H
5	5.358	-66.82	Pk	34.5	-28.7	11.8	.5	-48.72	-25	-23.72	0-360	101	V
2	5.77	-64.25	Pk	34.9	-29.7	11.8	.4	-46.85	-25	-21.85	0-360	300	H
6	8.014	-65.6	Pk	35.9	-27.1	11.8	.4	-44.6	-25	-19.6	0-360	300	V
3	9.078	-65.06	Pk	36.3	-25.5	11.8	.5	-41.96	-25	-16.96	0-360	199	H

Pk - Peak detector

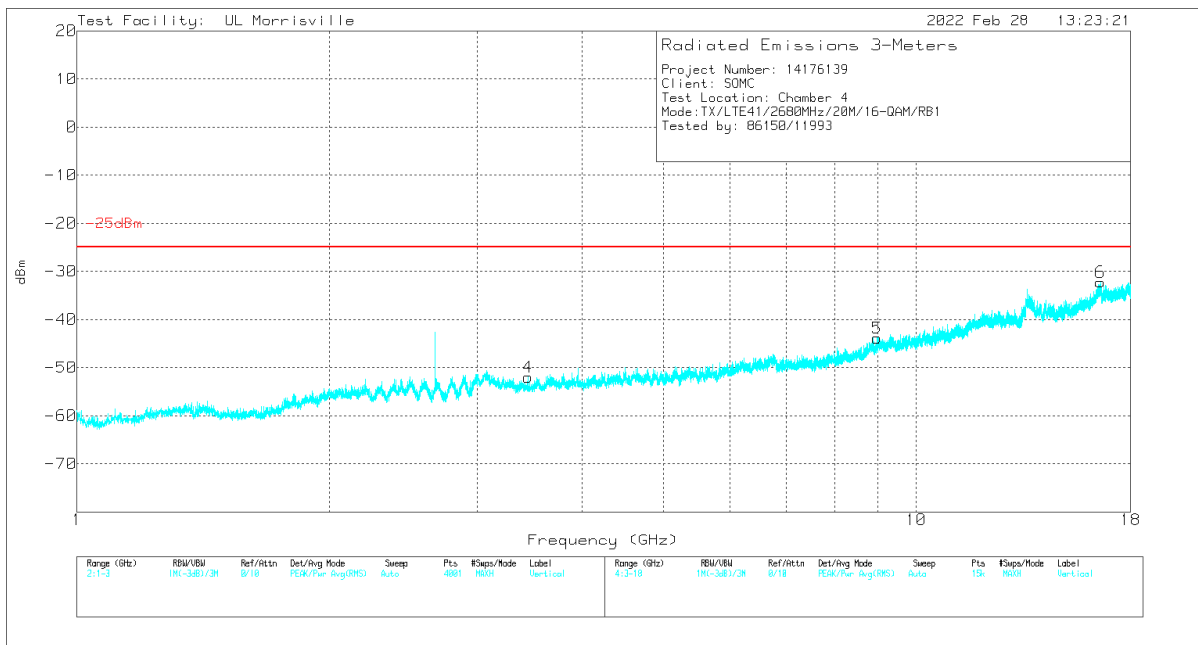
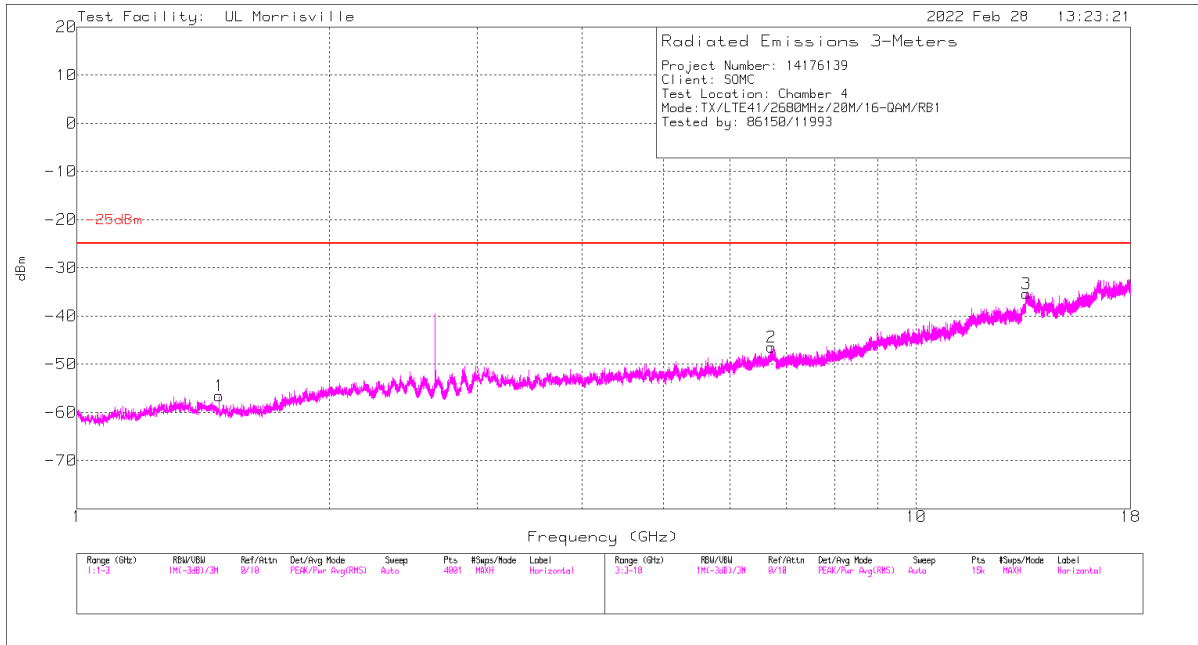
16QAM 20MHz 2593MHz Mid Channel



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.4385	-60.89	Pk	29.2	-36.6	11.8	.4	-56.09	-25	-31.09	0-360	200	H
4	2.144	-61.05	Pk	31.6	-36.7	11.8	1.7	-52.65	-25	-27.65	0-360	300	V
5	6.745	-65.03	Pk	35.5	-28.5	11.8	.4	-45.83	-25	-20.83	0-360	300	V
2	9.652	-65.15	Pk	36.6	-26.3	11.8	1.3	-41.75	-25	-16.75	0-360	200	H
6	13.538	-63.52	Pk	38.7	-22.5	11.8	.8	-34.72	-25	-9.72	0-360	300	V
7	16.41	-65.01	Pk	41.1	-21.2	11.8	.9	-32.41	-25	-7.41	0-360	200	V
3	16.565	-65.15	Pk	41.5	-21.2	11.8	1	-32.05	-25	-7.05	0-360	100	H

Pk - Peak detector

16QAM 20MHz 2680MHz High Channel



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.477	-60.62	Pk	28.3	-36.5	11.8	.4	-56.62	-25	-31.62	0-360	200	H
4	3.446	-62.19	Pk	32.6	-34.9	11.8	.7	-51.99	-25	-26.99	0-360	300	V
2	6.723	-65.68	Pk	35.5	-28.5	11.8	.4	-46.48	-25	-21.48	0-360	200	H
5	8.977	-65.75	Pk	35.9	-26.4	11.8	.6	-43.85	-25	-18.85	0-360	300	V
3	13.528	-64.17	Pk	38.7	-22.5	11.8	.8	-35.37	-25	-10.37	0-360	100	H
6	16.574	-65.37	Pk	41.5	-21.2	11.8	1	-32.27	-25	-7.27	0-360	200	V

Pk - Peak detector

10.2. WORST CASE EMISSIONS

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53.

LIMITS

FCC: §22.917(a), §24.238(a), §27.53 (h)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

TEST PROCEDURE

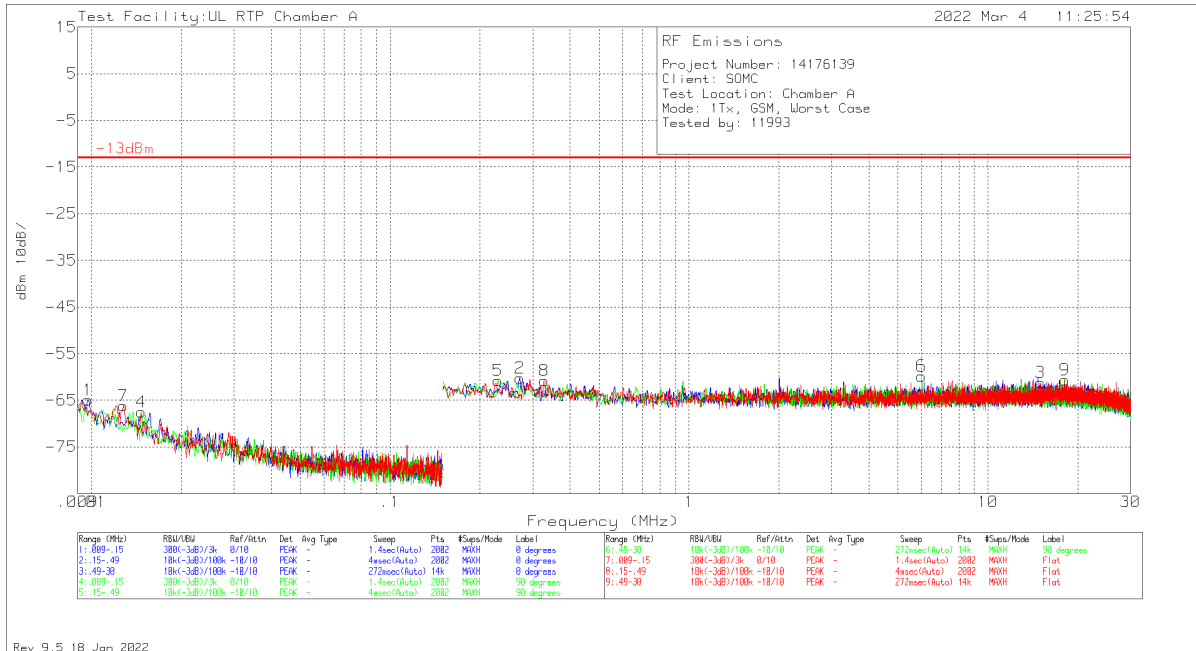
KDB 971168 D01 v02r02/D02 v01

RESULTS

10.2.1. Worst-Case Emissions for 2G

GSM 850 GPRS Mode

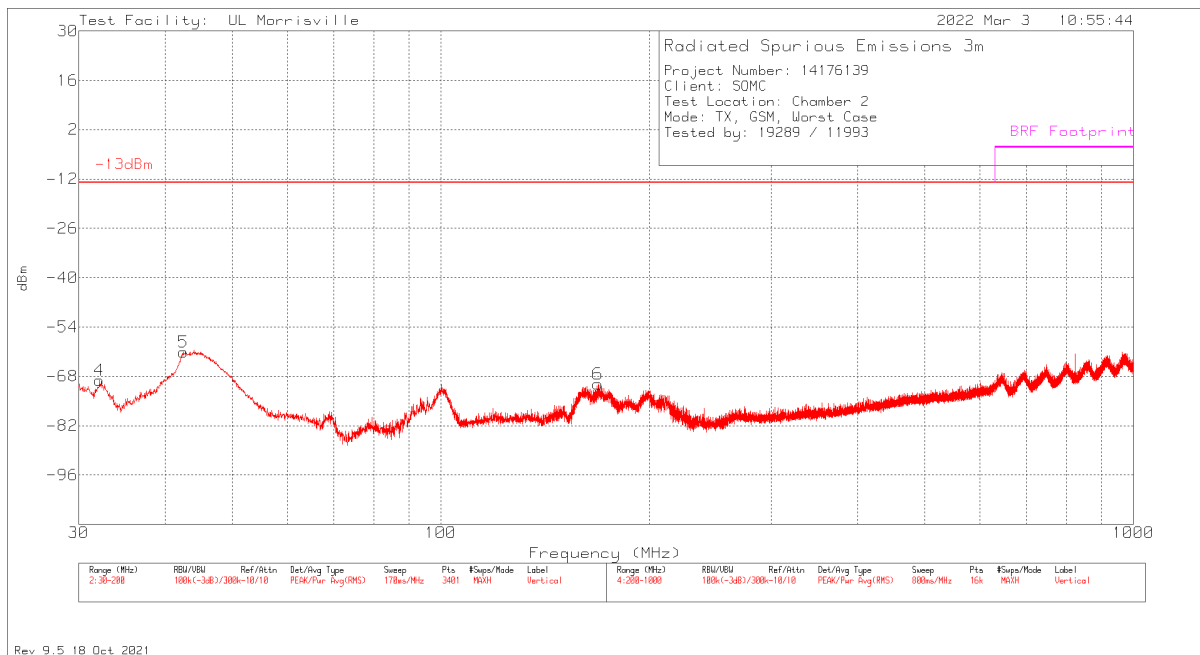
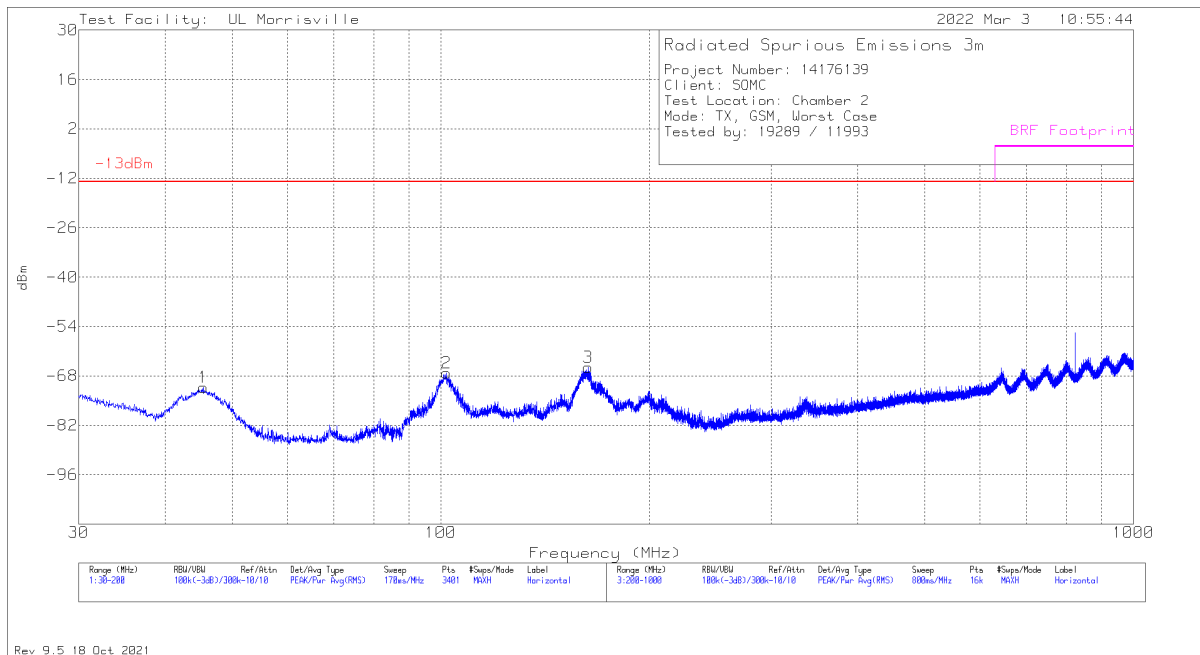
Spurious below 30MHz



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0059 (dB/m)	Conversion Factor (dB)	SAC-E (dB)	DCF	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Loop Angle
1	.0097	-106.51	Pk	19.2	11.8	0	10.5	-65.01	-13	-52.01	0-360	0 degs
7	.0128	-106.07	Pk	17.6	11.8	0	10.5	-66.17	-13	-53.17	0-360	Flat
4	.0147	-106.4	Pk	16.6	11.8	0	10.5	-67.5	-13	-54.5	0-360	90 degs
5	.2297	-93.34	Pk	10.1	11.8	.1	10.5	-60.84	-13	-47.84	0-360	90 degs
2	.2711	-92.75	Pk	10.1	11.8	.1	10.5	-60.25	-13	-47.25	0-360	0 degs
8	.3277	-93.14	Pk	10	11.8	.1	10.5	-60.74	-13	-47.74	0-360	Flat
6	6.0066	-92.99	Pk	10.5	11.8	.4	10.5	-59.79	-13	-46.79	0-360	90 degs
3	15.0162	-94.78	Pk	10.6	11.8	.7	10.5	-61.18	-13	-48.18	0-360	0 degs
9	18.0412	-94.01	Pk	10.4	11.8	.7	10.5	-60.61	-13	-47.61	0-360	Flat

Pk - Peak detector

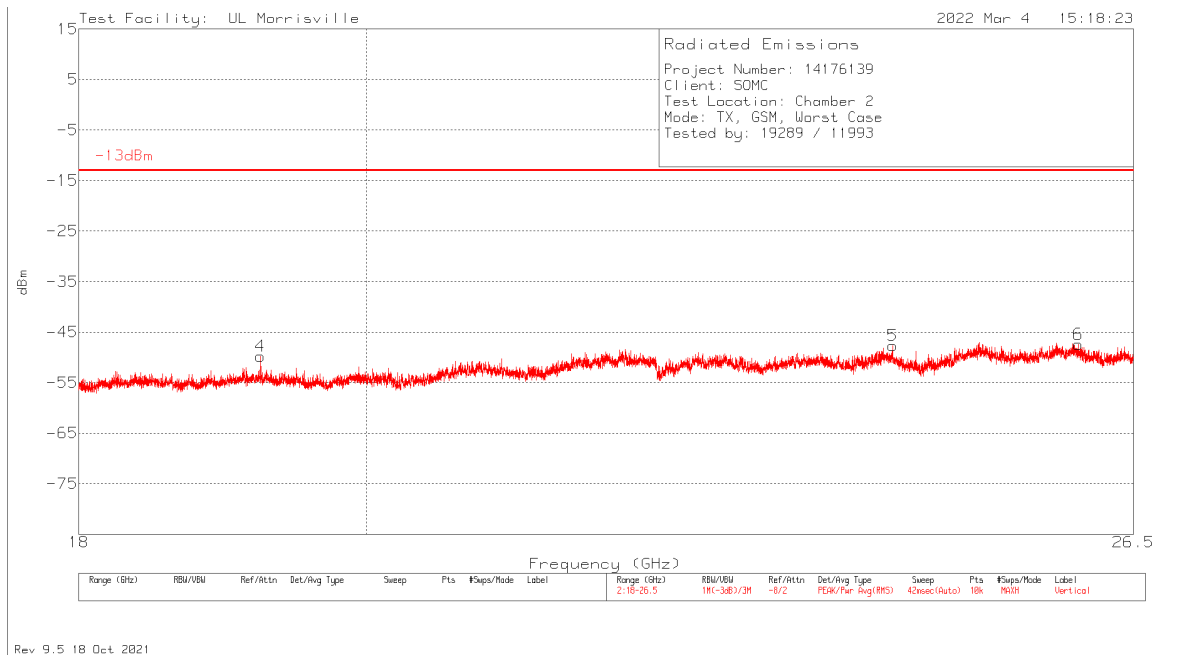
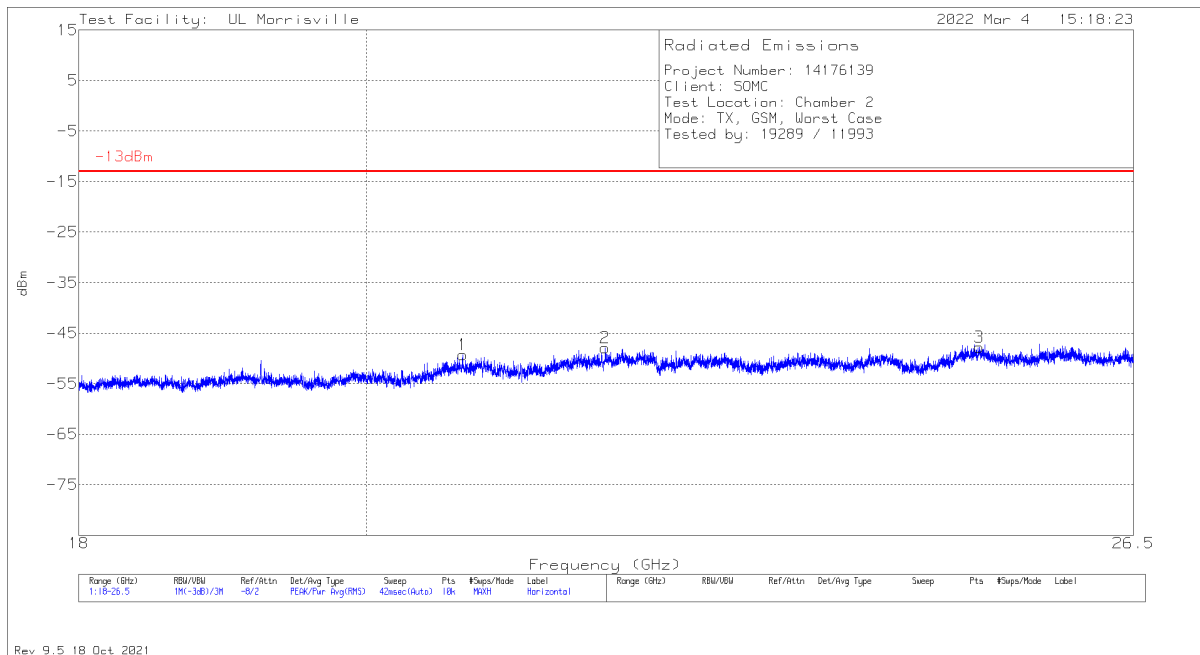
Spurious below 1GHz



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0073 (dB/m)	Amp/Cbl (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	BRF Footprint	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	32.15	-72.78	Pk	25.4	-31.6	.1	9.7	-69.18	-13	-56.18	-	-	0-360	101	V
5	42.45	-57.44	Pk	18	-31.4	.1	9.7	-61.04	-13	-48.04	-	-	0-360	101	V
1	45.4	-66.02	Pk	16.1	-31.2	.1	9.7	-71.32	-13	-58.32	-	-	0-360	399	H
2	101.9	-63.67	Pk	17	-30.5	.3	9.7	-67.17	-13	-54.17	-	-	0-360	199	H
3	163.05	-64.14	Pk	18.3	-29.9	.5	9.7	-65.54	-13	-52.54	-	-	0-360	199	H
6	168.55	-68.86	Pk	18	-29.6	.5	9.7	-70.26	-13	-57.26	-	-	0-360	101	V

Pk - Peak detector

Spurious 18GHz to 26GHz



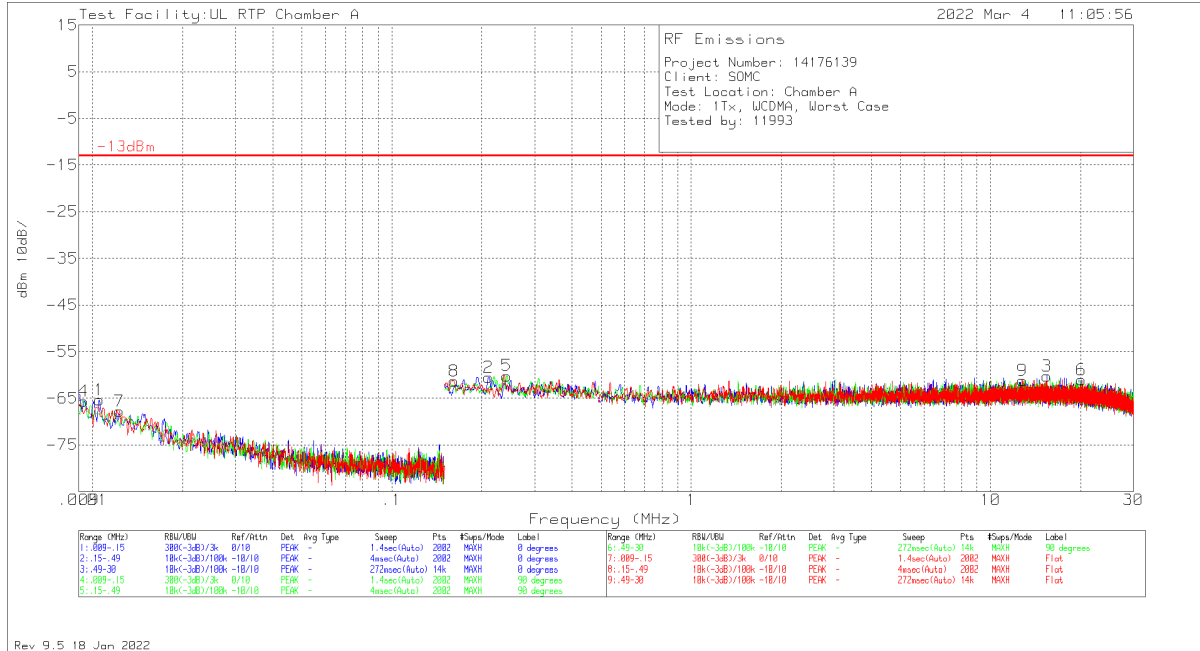
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0063 (dB/m)	Amp/Cbl (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	19.24003	-57.12	Pk	33.4	-37.8	11.8	-49.72	-13	-36.72	0-360	101	V
1	20.72058	-56.8	Pk	33.9	-38.2	11.8	-49.3	-13	-36.3	0-360	200	H
2	21.83482	-58.16	Pk	36.1	-37.6	11.8	-47.86	-13	-34.86	0-360	299	H
5	24.25962	-57.54	Pk	34.9	-36.8	11.8	-47.64	-13	-34.64	0-360	101	V
3	25.04495	-58.26	Pk	35.2	-36.5	11.8	-47.76	-13	-34.76	0-360	101	H
6	25.9705	-58.47	Pk	35.4	-36.1	11.8	-47.37	-13	-34.37	0-360	201	V

Pk - Peak detector

10.2.2. Worst-Case Emissions for 3G

WCDMA Band V Rel 99 Mode

Spurious below 30MHz

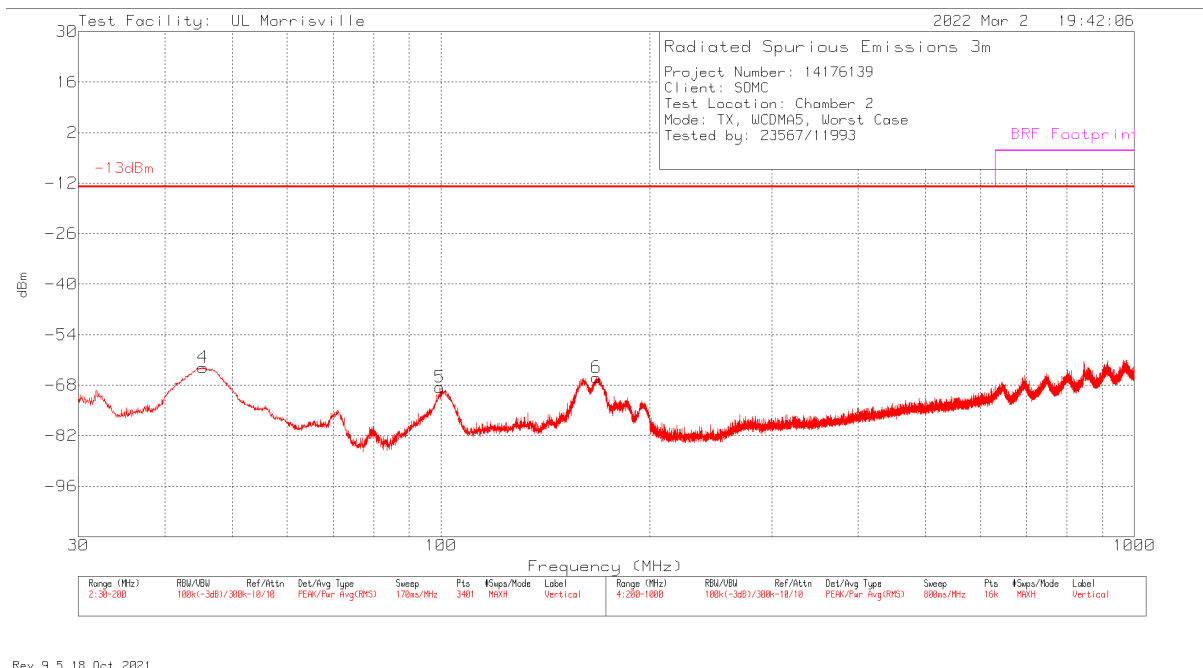
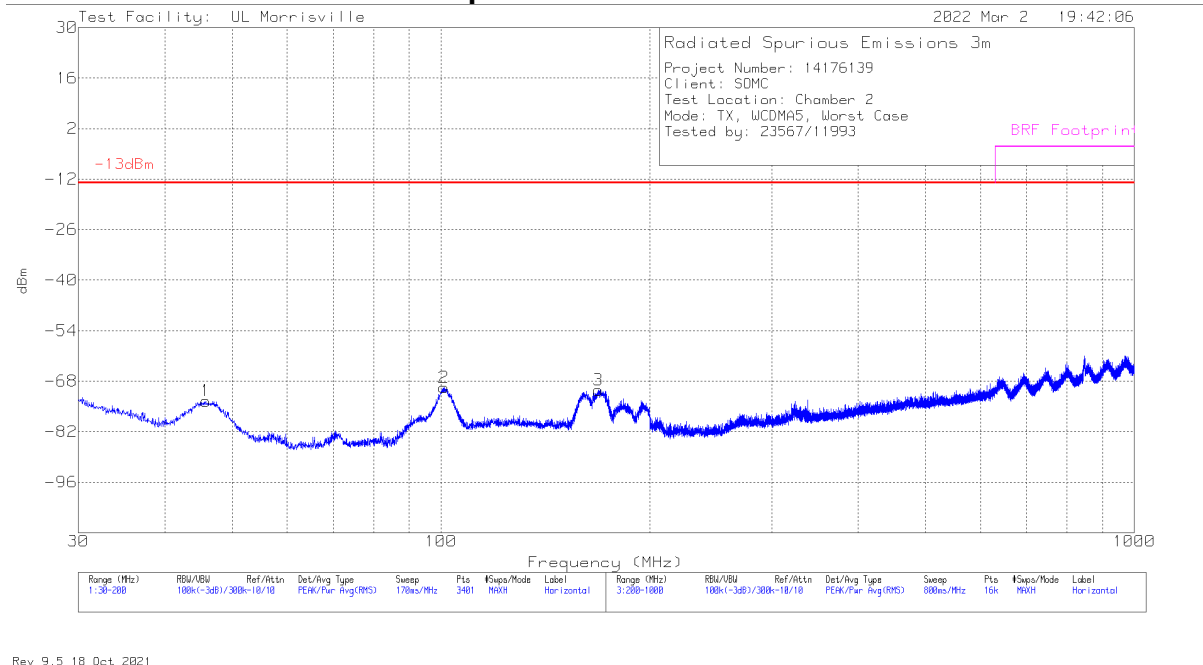


Rev 9.5 18 Jan 2022

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0059 (dB/m)	Conversion Factor (dB)	SAC-E (dB)	DCF	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Loop Angle
4	.0094	-107.5	Pk	19.6	11.8	0	10.5	-65.6	-13	-52.6	0-360	90 degs
1	.0105	-106.23	Pk	18.6	11.8	0	10.5	-65.33	-13	-52.33	0-360	0 degs
7	.0123	-107.94	Pk	17.8	11.8	0	10.5	-67.84	-13	-54.84	0-360	Flat
8	.1614	-93.96	Pk	10.2	11.8	.1	10.5	-61.36	-13	-48.36	0-360	Flat
2	.2108	-93.1	Pk	10.2	11.8	.1	10.5	-60.5	-13	-47.5	0-360	0 degs
5	.2422	-92.69	Pk	10.1	11.8	.1	10.5	-60.19	-13	-47.19	0-360	90 degs
9	12.7733	-94.68	Pk	10.6	11.8	.6	10.5	-61.18	-13	-48.18	0-360	Flat
3	15.402	-93.81	Pk	10.6	11.8	.7	10.5	-60.21	-13	-47.21	0-360	0 degs
6	20.086	-94.39	Pk	10.2	11.8	.8	10.5	-61.09	-13	-48.09	0-360	90 degs

Pk - Peak detector

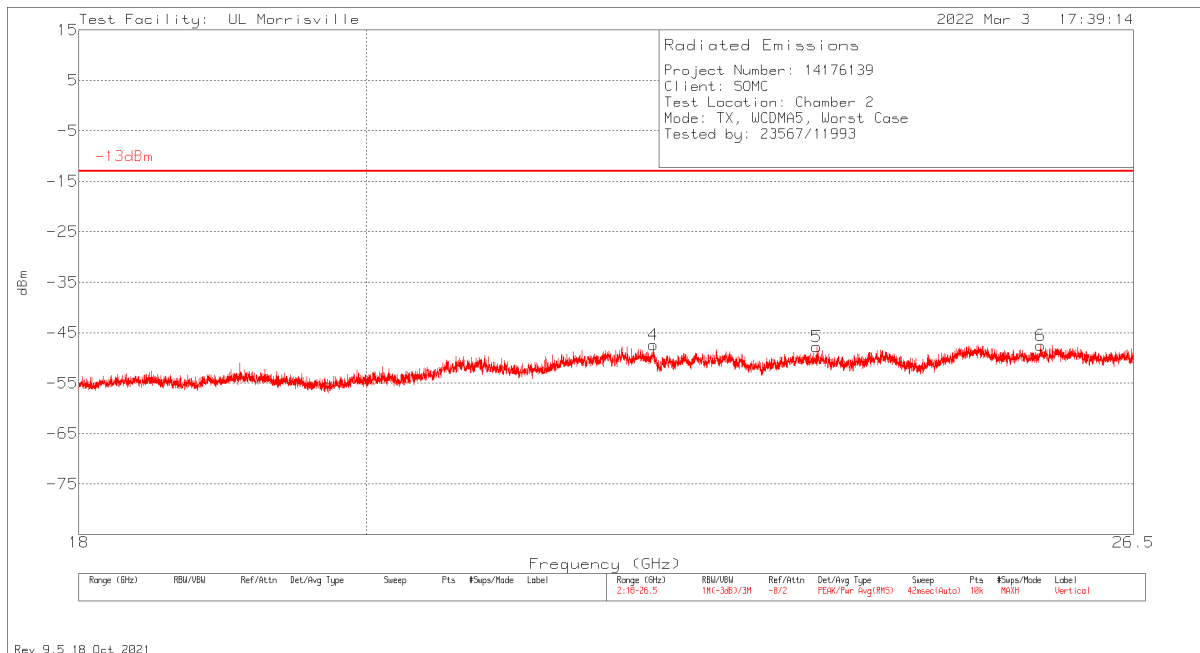
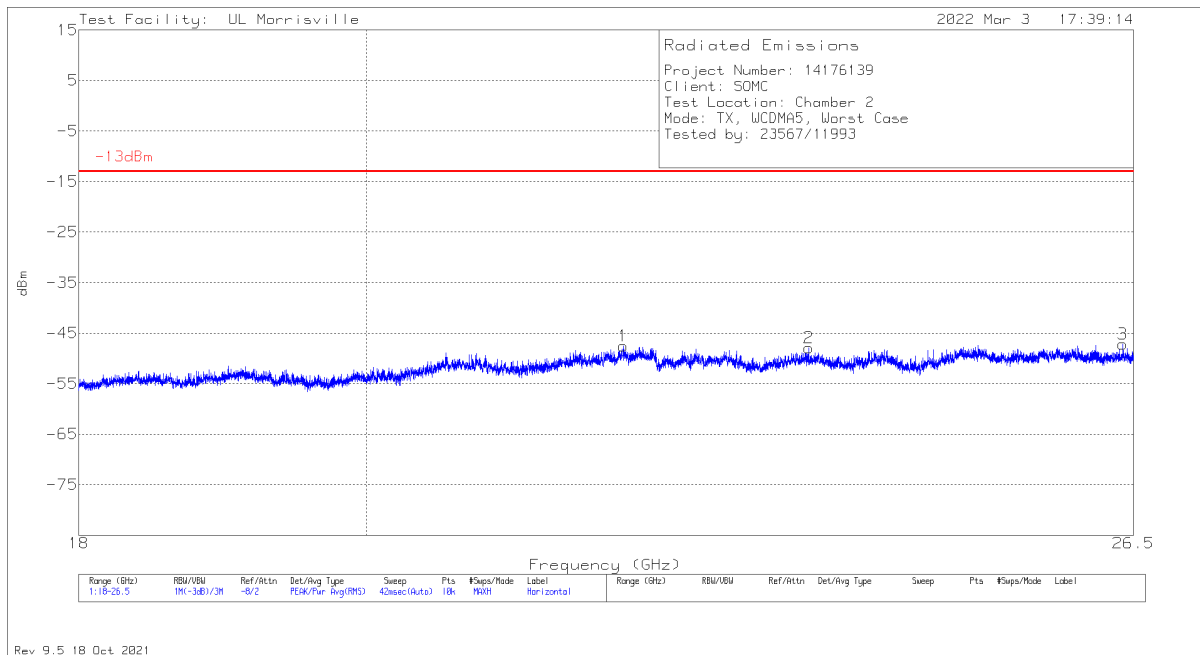
Spurious below 1GHz



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0073 (dB/m)	Amp/Cbl (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	BRF Footprint	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	45.4	-57.75	Pk	16.1	-31.2	.1	9.7	-63.05	-13	-50.05	-	-	0-360	101	V
1	45.8	-67.78	Pk	15.8	-31.3	.1	9.7	-73.48	-13	-60.48	-	-	0-360	399	H
5	99.7	-64.5	Pk	16.3	-30.4	.3	9.7	-68.6	-13	-55.6	-	-	0-360	101	V
2	101.05	-66.05	Pk	16.7	-30.4	.3	9.7	-69.75	-13	-56.75	-	-	0-360	299	H
6	167.55	-64.25	Pk	18	-29.8	.5	9.7	-65.85	-13	-52.85	-	-	0-360	101	V
3	168.65	-69	Pk	18	-29.7	.5	9.7	-70.5	-13	-57.5	-	-	0-360	198	H

Pk - Peak detector

Spurious 18GHz to 26GHz



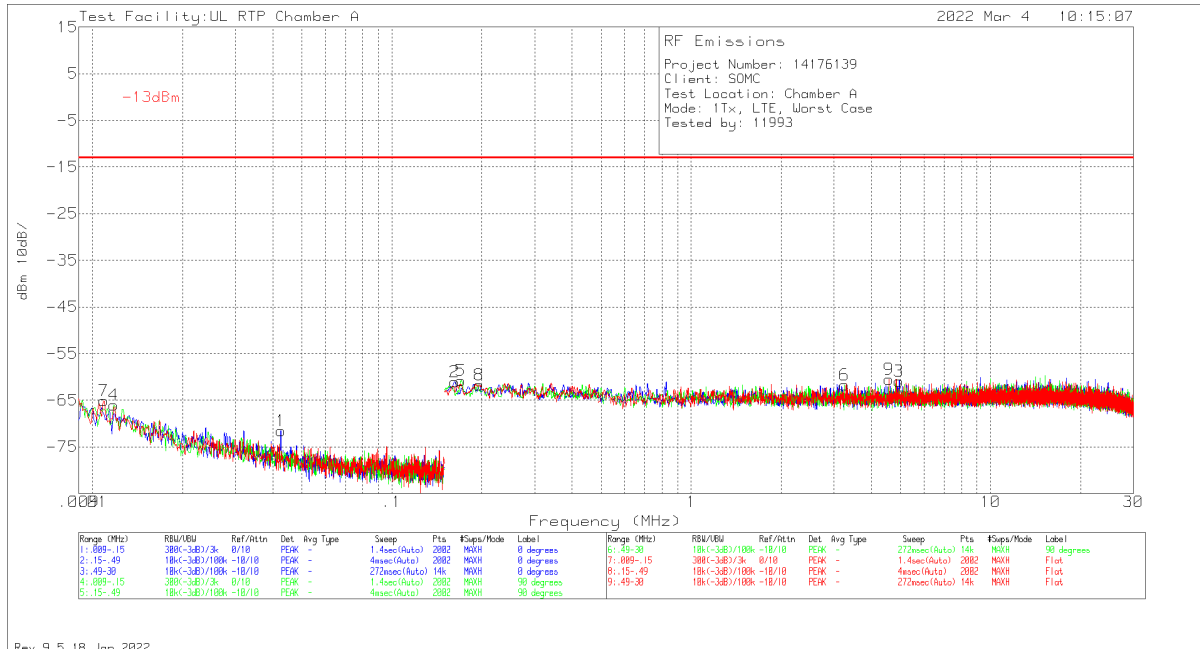
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0063 (dB/m)	Amp/Cbl (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	21.98015	-58.05	Pk	36.9	-38.2	11.8	-47.55	-13	-34.55	0-360	299	H
4	22.22238	-58.32	Pk	36.8	-37.7	11.8	-47.42	-13	-34.42	0-360	200	V
2	23.52445	-57.37	Pk	35	-37.3	11.8	-47.87	-13	-34.87	0-360	250	H
5	23.59329	-56.85	Pk	34.9	-37.6	11.8	-47.75	-13	-34.75	0-360	300	V
6	25.61524	-58.32	Pk	35.2	-36.2	11.8	-47.52	-13	-34.52	0-360	150	V
3	26.39886	-58.62	Pk	35.6	-36	11.8	-47.22	-13	-34.22	0-360	150	H

Pk - Peak detector

10.2.3. Worst-Case Emissions for 4G

LTE Band 5 16-QAM Mode

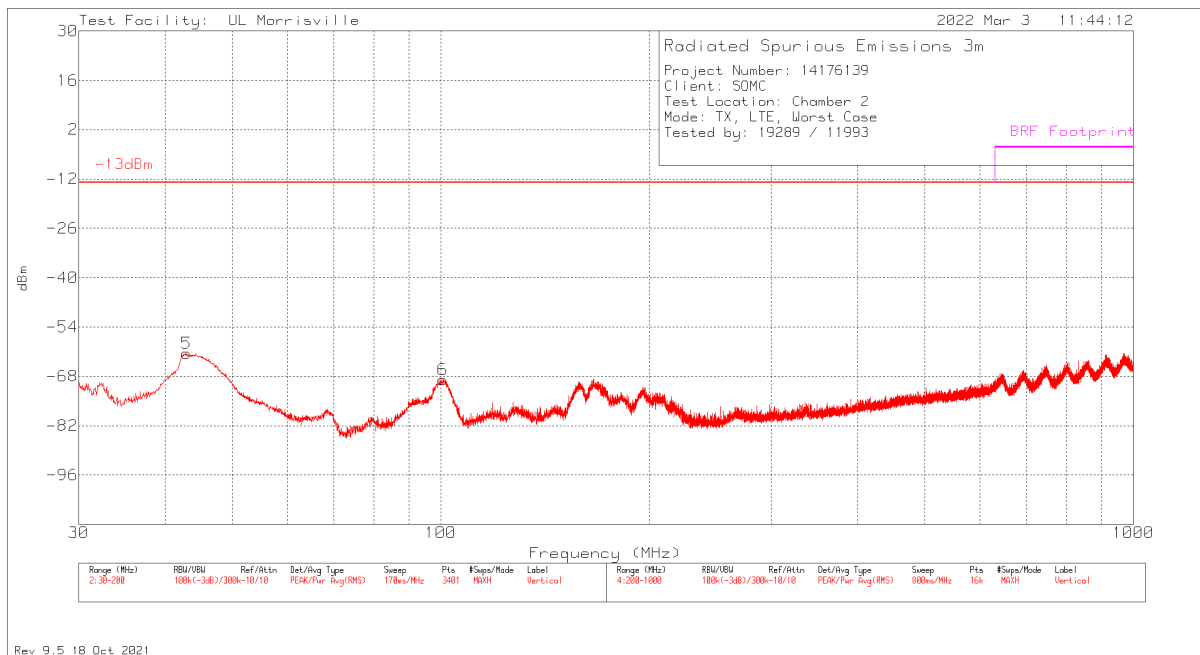
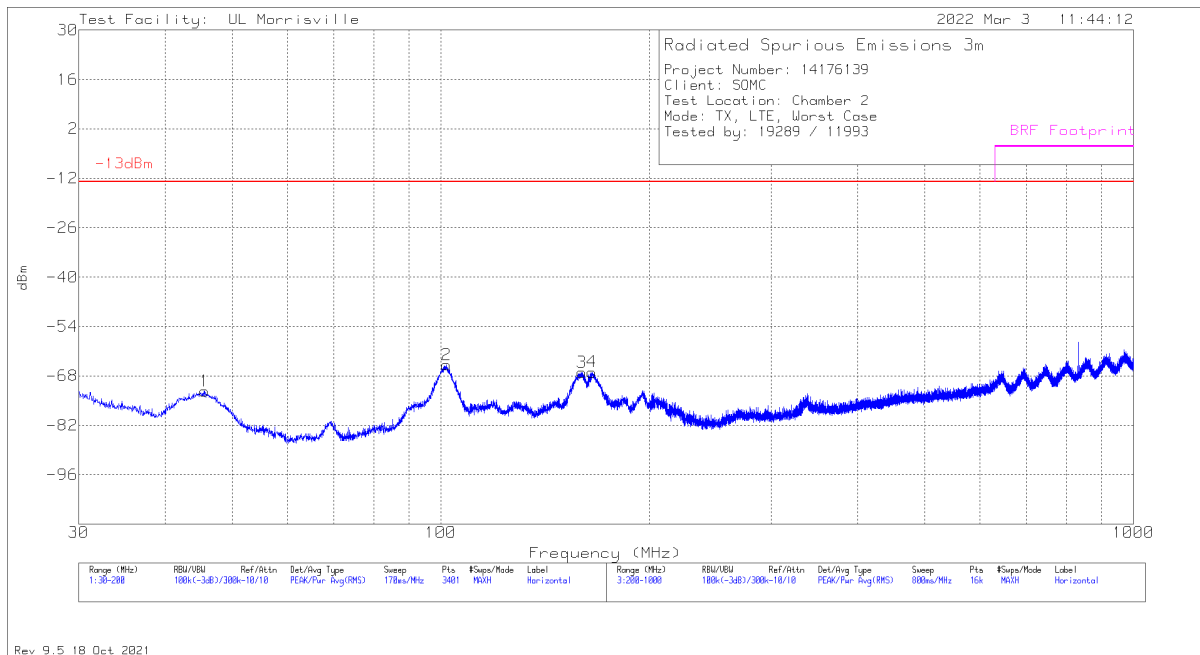
Spurious below 30MHz



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0059 (dB/m)	Conversion Factor (dB)	SAC-E (dB)	DCF	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Loop Angle
7	.0109	-105.91	Pk	18.5	11.8	0	10.5	-65.11	-13	-52.11	0-360	Flat
4	.0118	-106.38	Pk	18	11.8	0	10.5	-66.08	-13	-53.08	0-360	90 degs
1	.0426	-105.68	Pk	11.8	11.8	0	10.5	-71.58	-13	-58.58	0-360	0 degs
2	.162	-93.7	Pk	10.2	11.8	.1	10.5	-61.1	-13	-48.1	0-360	0 degs
5	.1705	-93.4	Pk	10.2	11.8	.1	10.5	-60.8	-13	-47.8	0-360	90 degs
8	.1955	-94.32	Pk	10.2	11.8	.1	10.5	-61.72	-13	-48.72	0-360	Flat
6	3.2557	-94.73	Pk	10.4	11.8	.3	10.5	-61.73	-13	-48.73	0-360	90 degs
9	4.5795	-93.73	Pk	10.5	11.8	.4	10.5	-60.53	-13	-47.53	0-360	Flat
3	4.9547	-94.15	Pk	10.5	11.8	.4	10.5	-60.95	-13	-47.95	0-360	0 degs

Pk - Peak detector

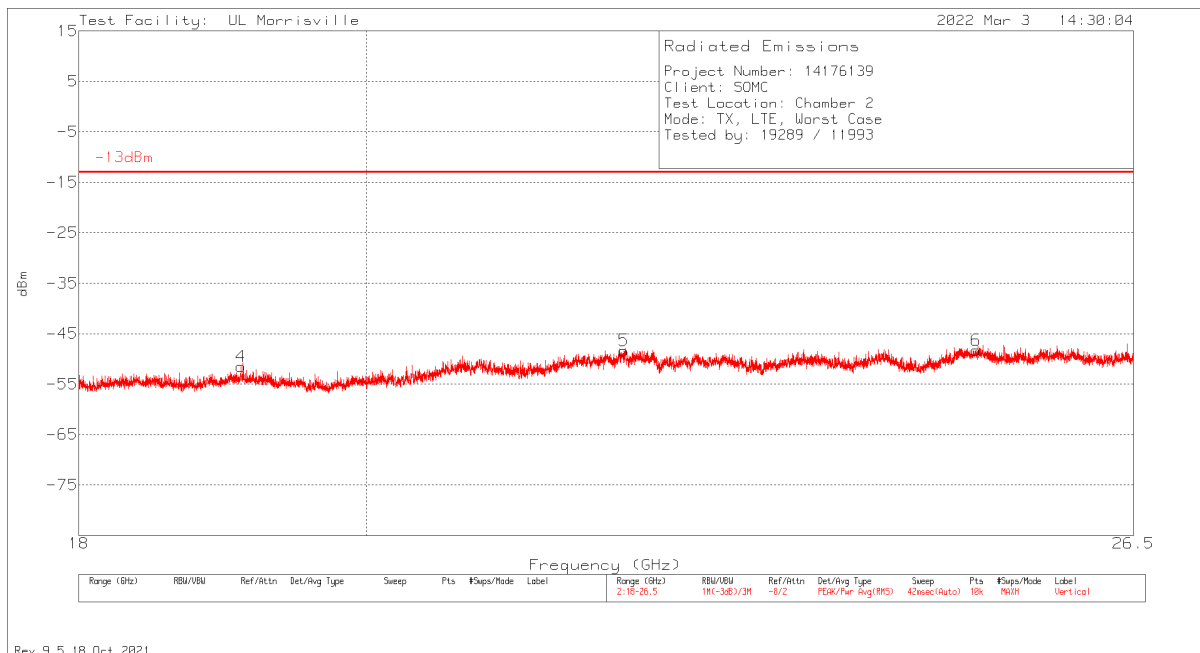
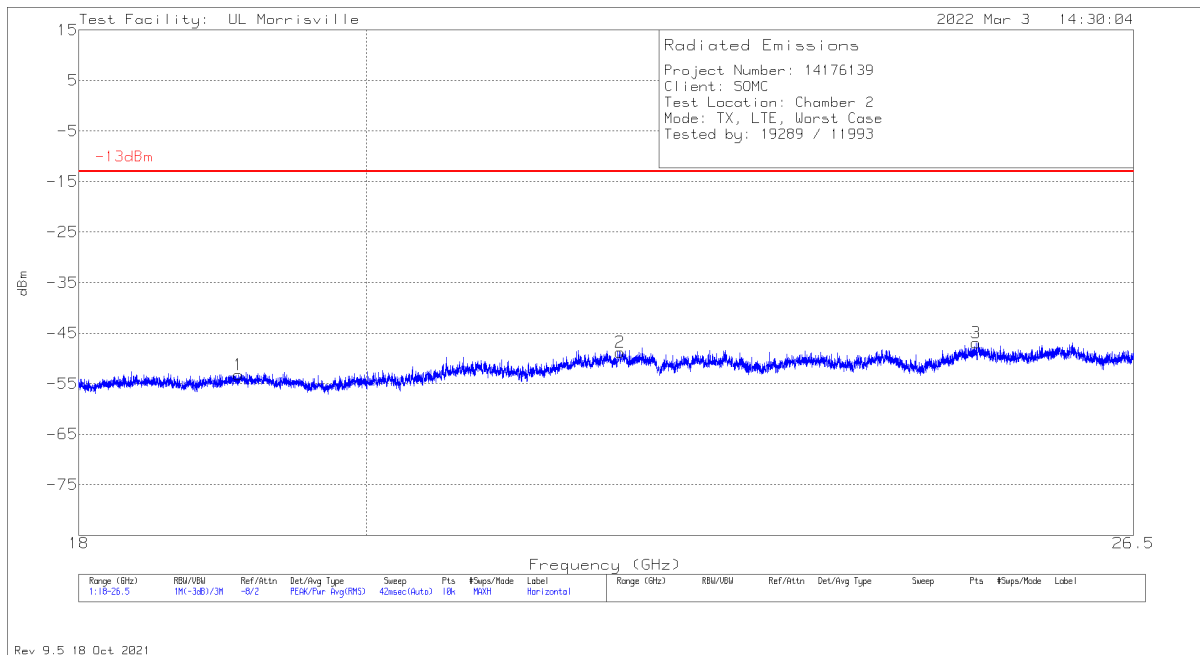
Spurious below 1GHz



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0073 (dB/m)	Amp/Cbl (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	BRF Footprint	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	42.95	-57.49	Pk	17.6	-31.4	.1	9.7	-61.49	-13	-48.49	-	-	0-360	100	V
1	45.6	-66.85	Pk	15.9	-31.2	.1	9.7	-72.35	-13	-59.35	-	-	0-360	399	H
6	100.6	-64.79	Pk	16.6	-30.7	.3	9.7	-68.89	-13	-55.89	-	-	0-360	100	V
2	102	-61.42	Pk	17	-30.5	.3	9.7	-64.92	-13	-51.92	-	-	0-360	298	H
3	159.7	-65.8	Pk	18.4	-29.8	.5	9.7	-67	-13	-54	-	-	0-360	198	H
4	165.25	-65.29	Pk	18.2	-30	.5	9.7	-66.89	-13	-53.89	-	-	0-360	198	H

Pk - Peak detector

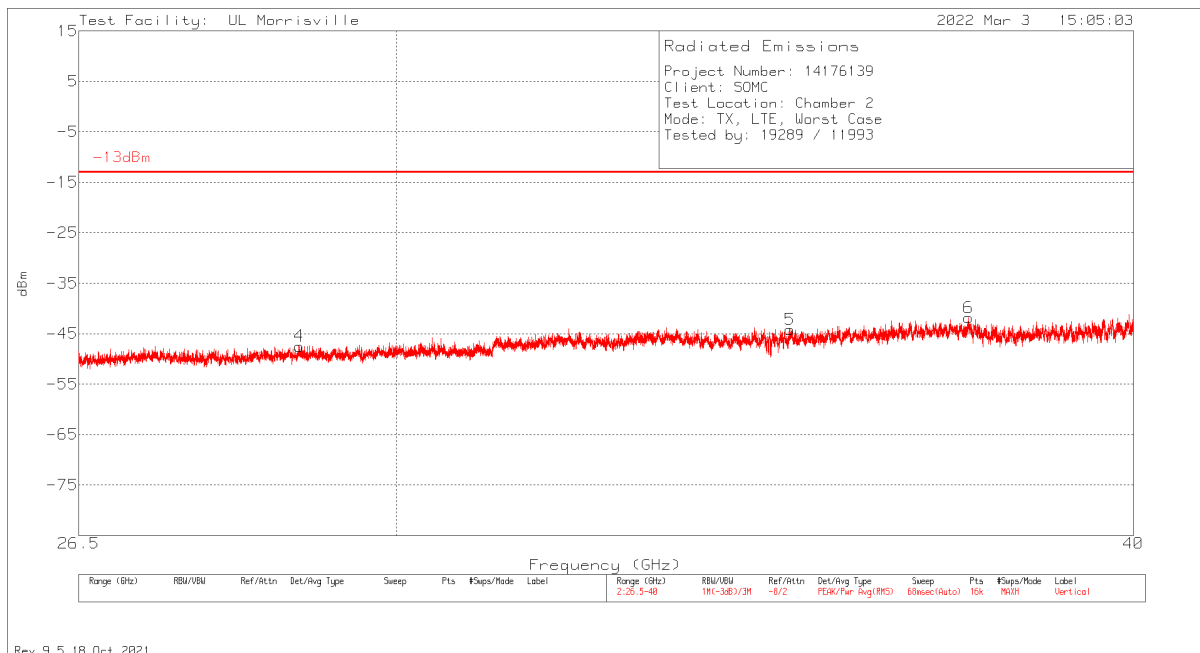
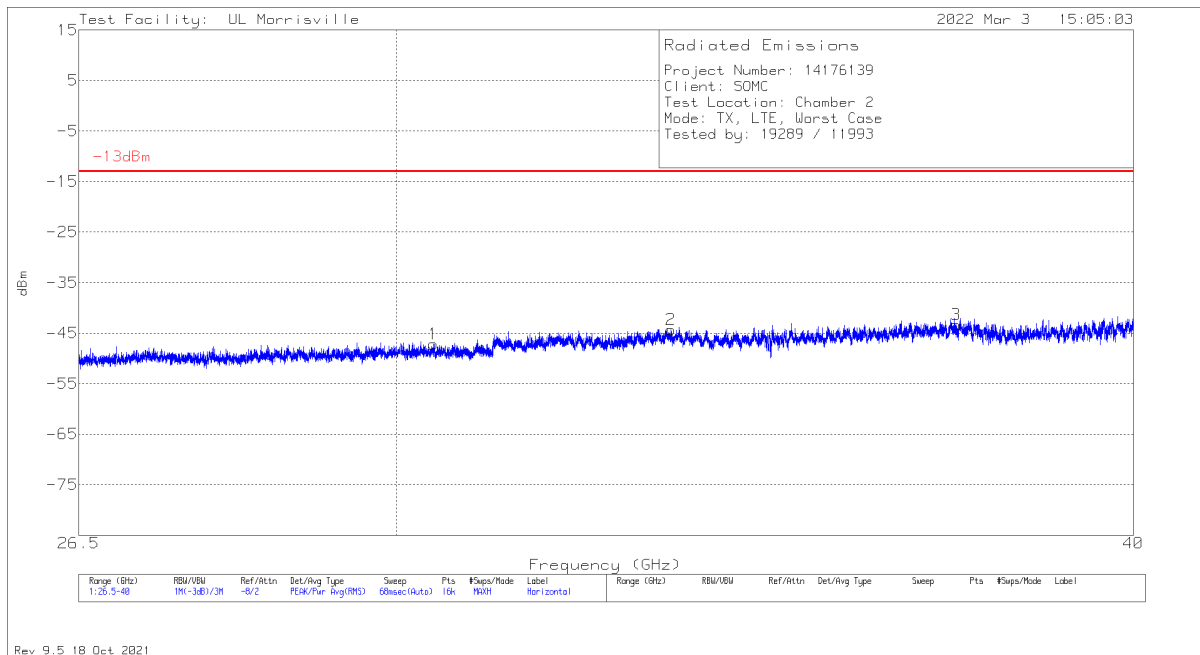
Spurious 18GHz to 26GHz



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0063 (dB/m)	Amp/Cbl (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	19.08704	-59.91	Pk	33.4	-38.5	11.8	-53.21	-13	-40.21	0-360	101	H
4	19.10149	-58.46	Pk	33.4	-38.2	11.8	-51.46	-13	-38.46	0-360	150	V
2	21.95465	-58.8	Pk	36.7	-38.5	11.8	-48.8	-13	-35.8	0-360	151	H
5	21.9827	-58.95	Pk	36.9	-38.1	11.8	-48.35	-13	-35.35	0-360	101	V
6	25.01605	-58.53	Pk	35.1	-36.7	11.8	-48.33	-13	-35.33	0-360	199	V
3	25.0169	-57.23	Pk	35.1	-36.6	11.8	-46.93	-13	-33.93	0-360	151	H

Pk - Peak detector

Spurious 26GHz – 40GHz

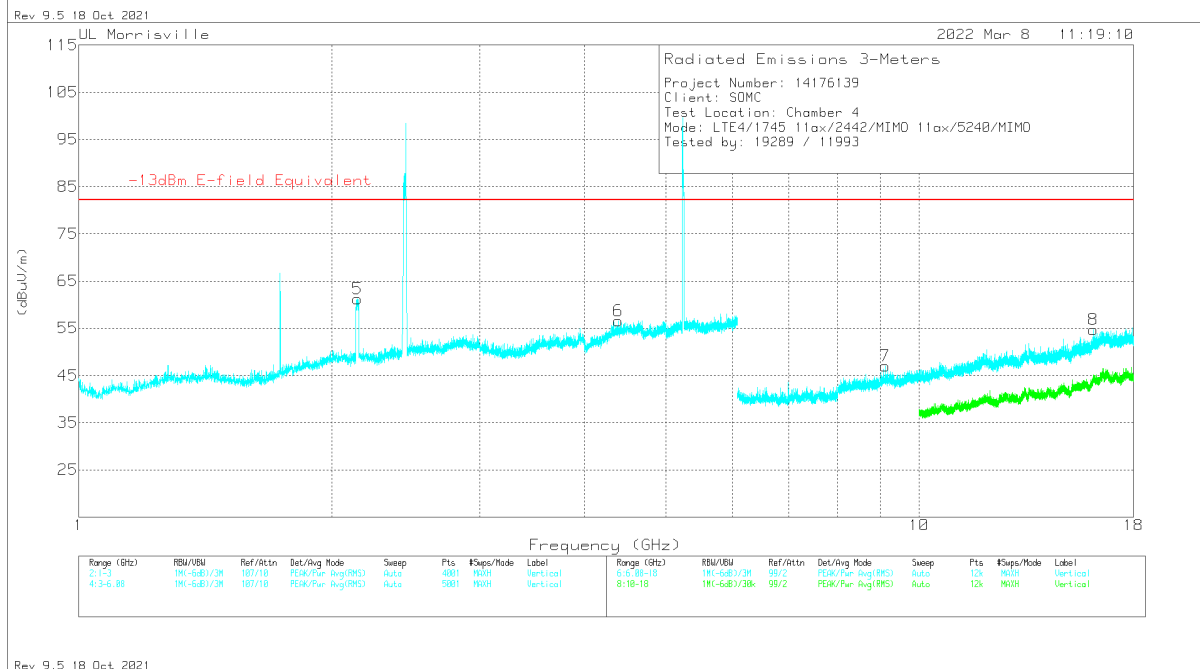
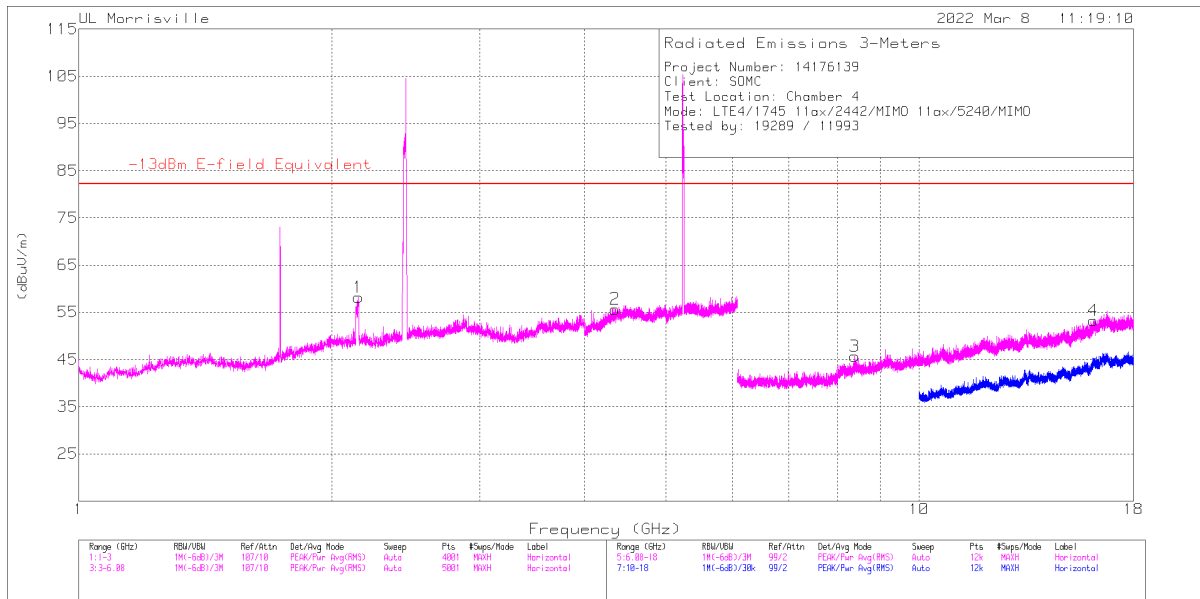


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0061 (dB/m)	Amp/Cbl (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	28.88091	-61.28	Pk	36.3	-34.3	11.8	-47.48	-13	-34.48	0-360	299	V
1	30.43163	-62.2	Pk	36.6	-33.4	11.8	-47.2	-13	-34.2	0-360	150	H
2	33.39554	-58.47	Pk	37.2	-34.8	11.8	-44.27	-13	-31.27	0-360	299	H
5	34.97747	-57.74	Pk	37.9	-36.1	11.8	-44.14	-13	-31.14	0-360	299	V
3	37.32801	-57.22	Pk	38.4	-36.3	11.8	-43.32	-13	-30.32	0-360	100	H
6	37.50603	-55.93	Pk	38.5	-36.2	11.8	-41.83	-13	-28.83	0-360	299	V

Pk - Peak detector

10.3. Simultaneous Transmission

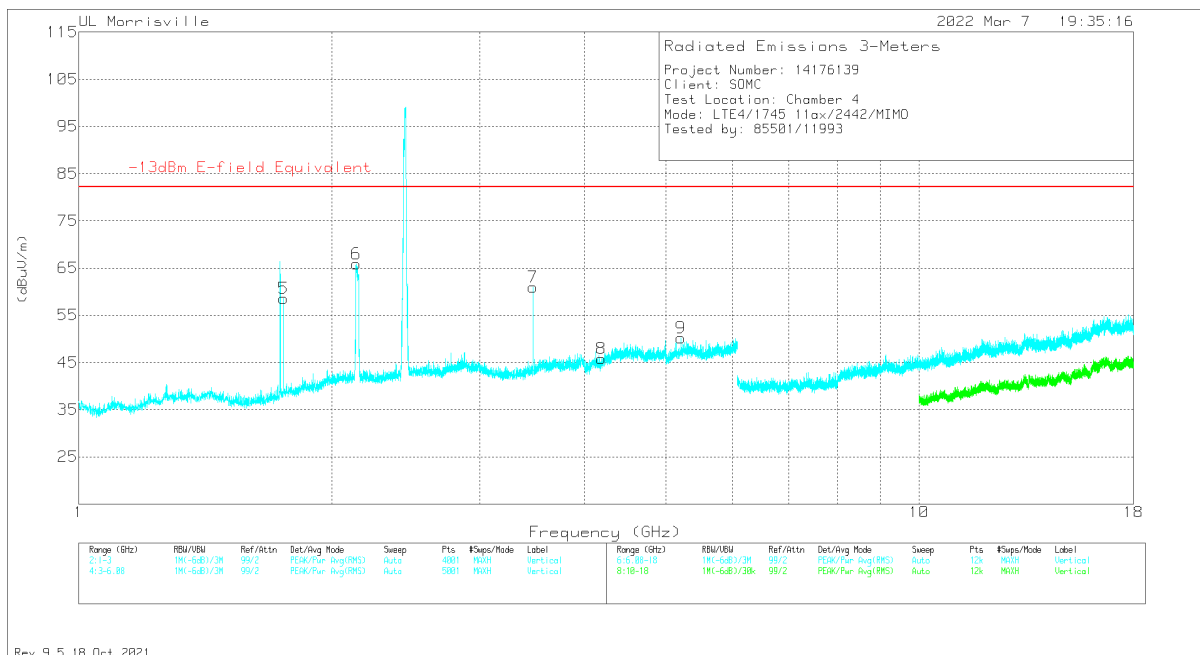
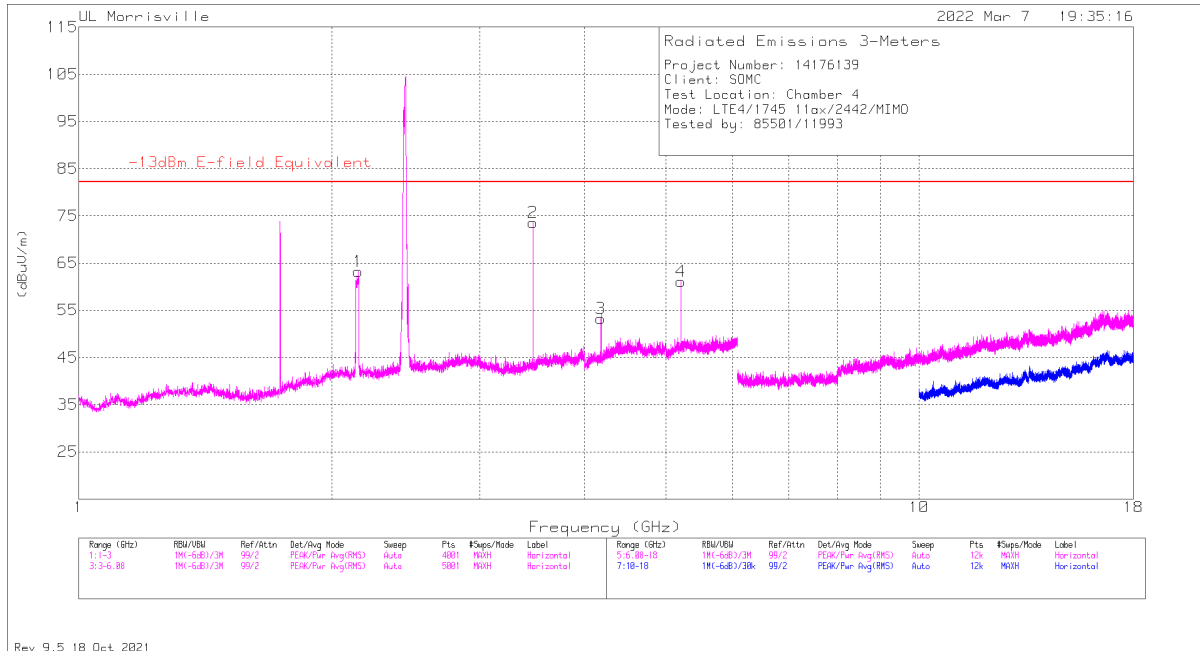
LTE Band 4, 20300, 1745MHz, 20MHz, 1RB and 2442MHz 11ax HE20 26T/8 C0/C1 and 5240MHz C0/C1 HE20 26T/0



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-13dBm E-field Equivalent	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1 ^{DL}	** 2.1525	39.79	Pk	31.6	-14.2	1	58.19	82.2	-24.01	0-360	100	H
5 ^{DL}	** 2.147	42.76	Pk	31.6	-14.2	1	61.16	82.2	-21.04	0-360	200	V
2	* ** 4.34781	33.6	Pk	33.5	-11.4	0	55.7	82.2	-26.5	0-360	100	H
6	* ** 4.38662	34.21	Pk	33.6	-11.2	0	56.61	82.2	-25.59	0-360	200	V
3	* ** 8.38851	37.42	Pk	35.7	-27.5	0	45.62	82.2	-36.58	0-360	100	H
4	* ** 16.11862	33.44	Pk	40.8	-21	0	53.24	82.2	-28.96	0-360	100	H
7	* ** 9.12357	37.43	Pk	36.1	-26.5	0	47.03	82.2	-35.17	0-360	200	V
8	* ** 16.11465	34.92	Pk	40.8	-21	0	54.72	82.2	-27.48	0-360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector

LTE Band 4, 20300, 1745MHz, 20MHz, 1RB and 2442MHz 11ax HE20 106T/R54 C0/C1



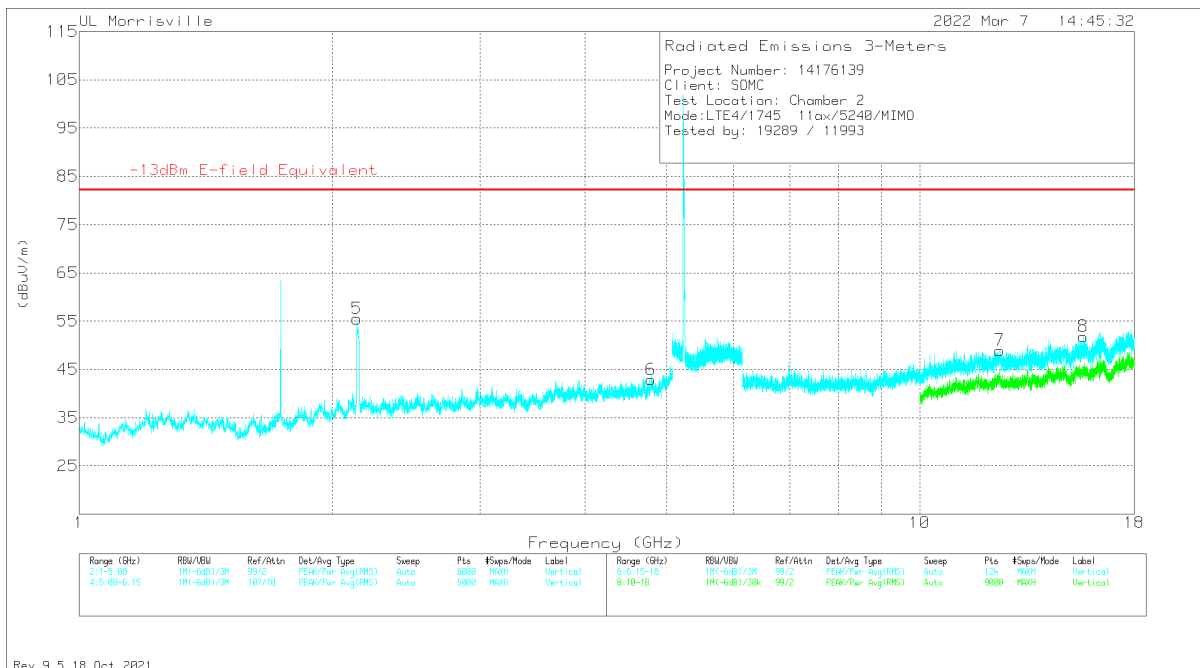
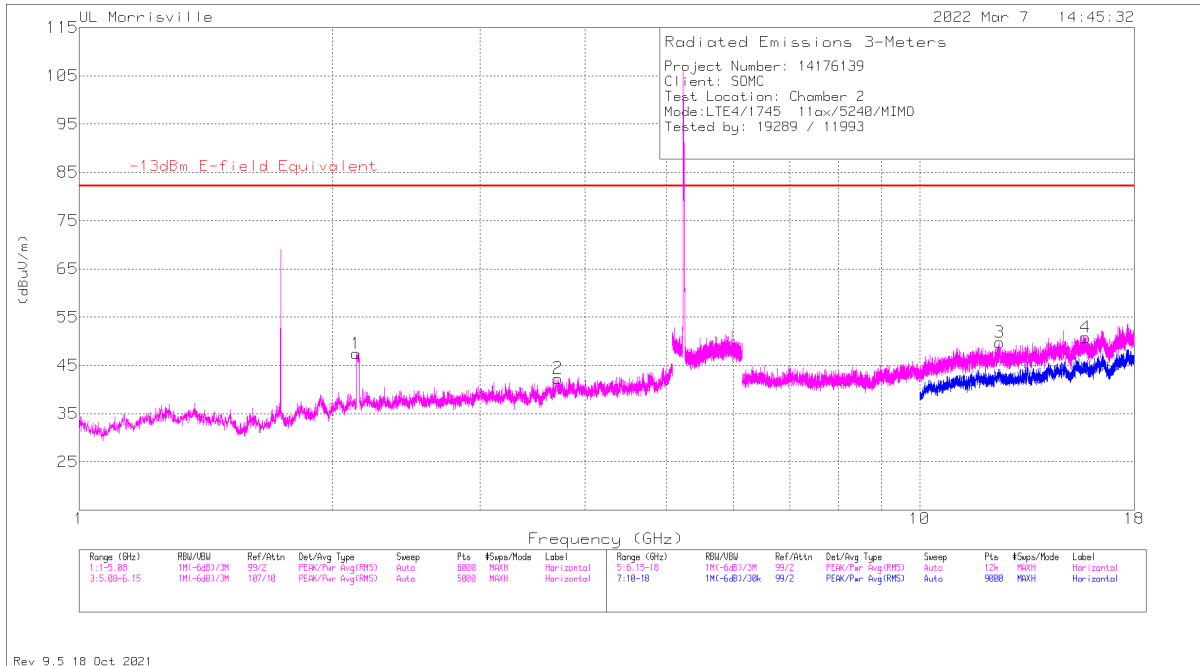
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-13dBm E-field Equivalent	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	** 2.1505	44.81	Pk	31.6	-14.2	1	63.21	82.2	-18.99	0-360	100	H
5	** 1.7535	43.05	Pk	29.2	-14.8	1.1	58.55	82.2	-23.65	0-360	200	V
6	** 2.1385	47.51	Pk	31.6	-14.2	1	65.91	82.2	-16.29	0-360	200	V
3	*** 4.18272	31.76	Pk	33.3	-11.8	0	53.26	82.2	-28.94	0-360	100	H
4	** 5.20898	36.94	Pk	34.3	-10.2	0	61.04	82.2	-21.16	0-360	100	H
8	*** 4.18703	24.31	Pk	33.3	-11.8	0	45.81	82.2	-36.39	0-360	200	V
9	** 5.20898	26.14	Pk	34.3	-10.2	0	50.24	82.2	-31.96	0-360	200	V
2	3.47186	53.42	Pk	32.6	-12.4	0	73.62	82.2	-8.58	0-360	100	H
7	3.47247	40.73	Pk	32.6	-12.4	0	60.93	82.2	-21.27	0-360	200	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

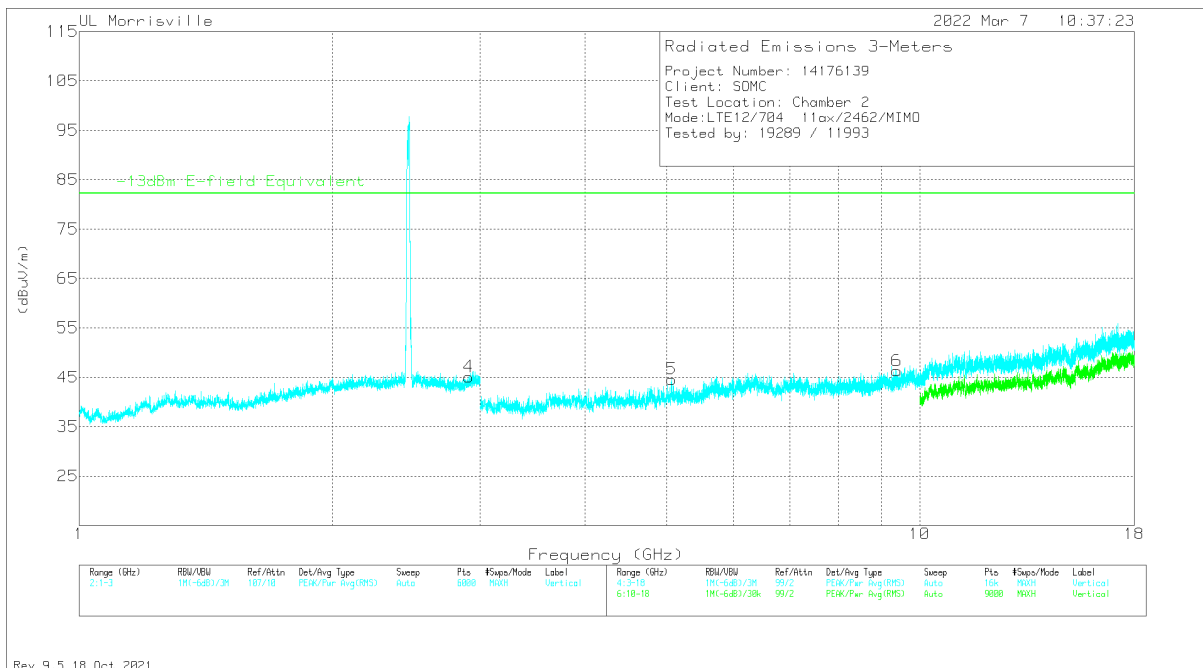
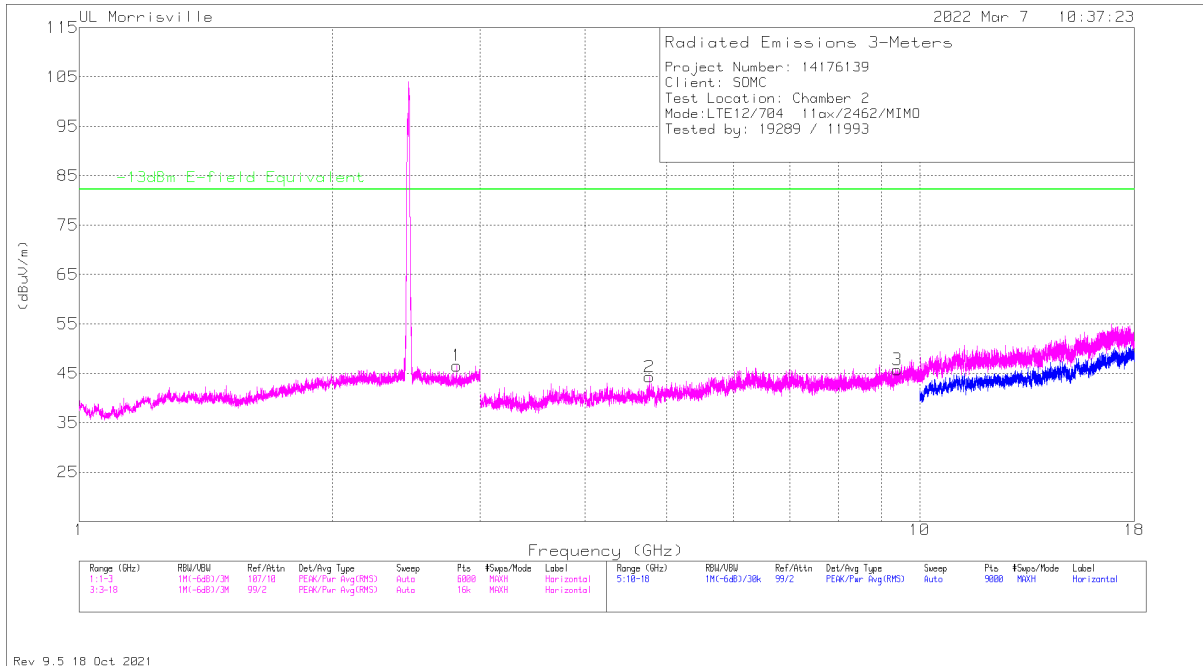
LTE Band 4, 20300, 1745MHz, 20MHz, 1RB and 5240MHz 11ax HE20 26T/0 C0/C1



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-13dBm E-field Equivalent	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1 ^{DL}	** 2.13715	49.23	Pk	31.5	-34.3	1	47.43	82.2	-34.77	0-360	199	H
2	*** 3.71297	40.49	Pk	33.4	-32.1	.5	42.29	82.2	-39.91	0-360	199	H
5 ^{DL}	** 2.13987	57.2	Pk	31.5	-34.2	1	55.5	82.2	-26.7	0-360	199	V
6	*** 4.78687	38.6	Pk	34.1	-30.1	.3	42.9	82.2	-39.3	0-360	199	V
3	*** 12.45519	33.55	Pk	38.9	-22.7	0	49.75	82.2	-32.45	0-360	199	H
4	*** 15.75146	33.09	Pk	40.3	-22.6	0	50.79	82.2	-31.41	0-360	199	H
7	*** 12.4463	33.11	Pk	38.8	-23	0	48.91	82.2	-33.29	0-360	199	V
8	*** 15.66358	34.69	Pk	40.3	-23.2	0	51.79	82.2	-30.41	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector

LTE Band 12, 23060, 704MHz, 10MHz, 1RB and 2462MHz 106T/R54 C0/C1



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-13dBm E-field Equivalent	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.8123	39.13	Pk	32.6	-25.8	.6	46.53	82.2	-35.67	0-360	101	H
4	2.90598	37.57	Pk	32.8	-25.9	.6	45.07	82.2	-37.13	0-360	200	V
2	* ** 4.76906	40.46	Pk	34.1	-30.6	.3	44.26	82.2	-37.94	0-360	199	H
5	* ** 5.07	40.2	Pk	34.3	-30.2	.3	44.6	82.2	-37.6	0-360	199	V
6	* ** 9.39469	34.63	Pk	36.7	-25.7	.7	46.33	82.2	-35.87	0-360	101	V
3	* ** 9.40031	33.81	Pk	36.7	-25.4	.6	45.71	82.2	-36.49	0-360	199	H

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

11. SETUP PHOTOS

Please see Photos Exhibit report R14176139-EP1 for Setup Diagrams and Photos.

END OF REPORT