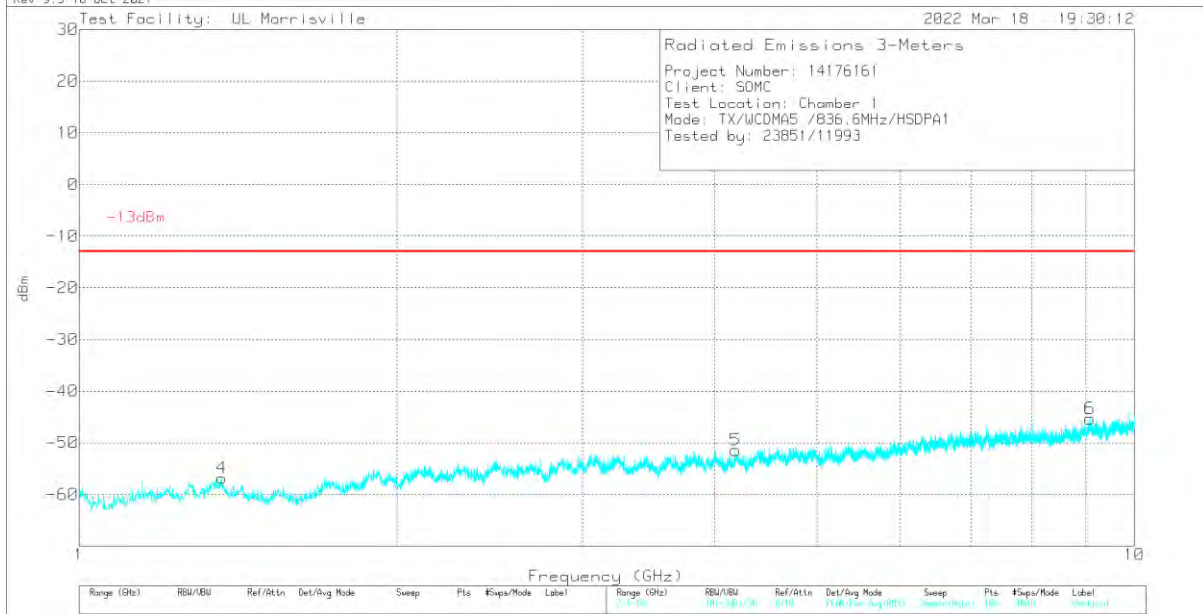


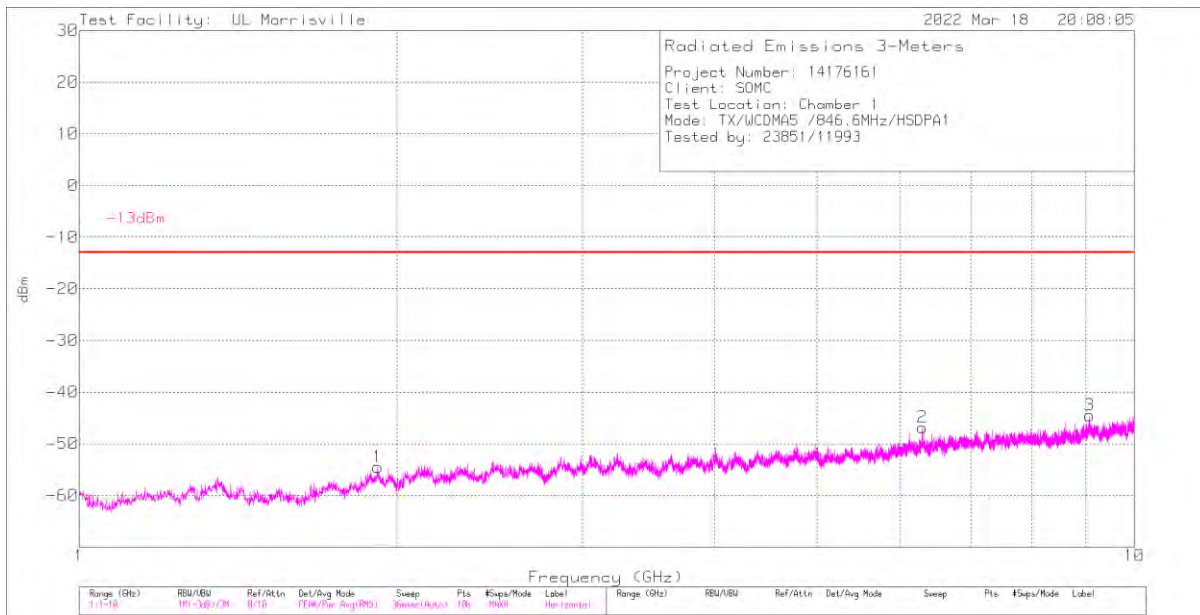
Rev 9.5 18 Oct 2021



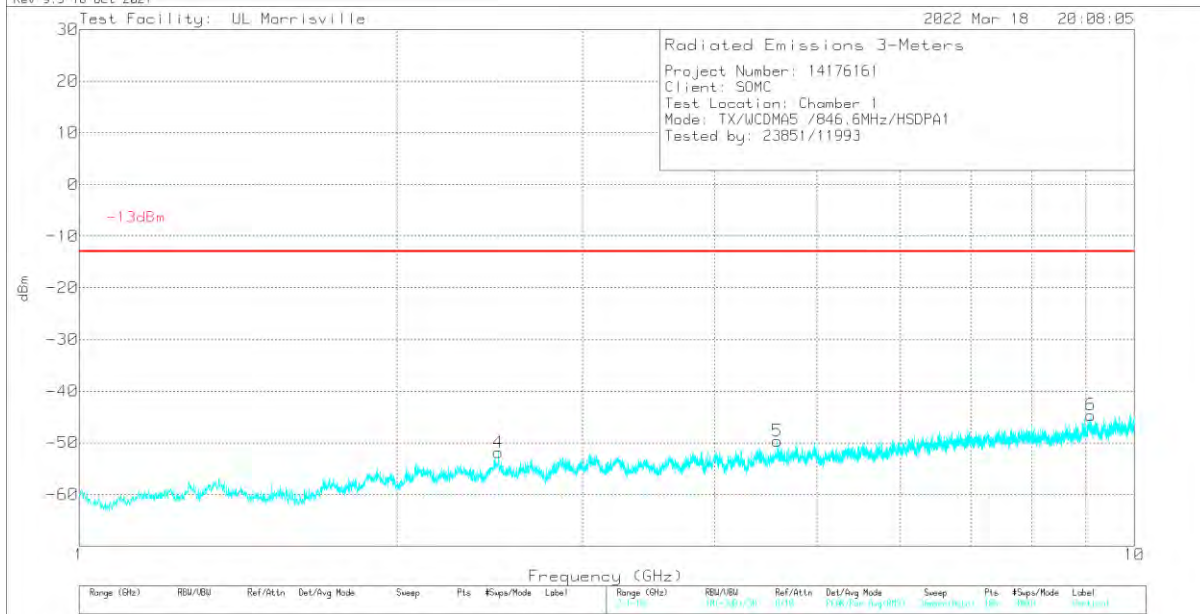
Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.3645	-62.52	Pk	29.6	-36.5	.8	11.8	-56.82	-13	-43.82	0-360	200	V
1	2.1547	-63.57	Pk	32	-34.4	.4	11.8	-53.77	-13	-40.77	0-360	300	H
5	4.1878	-63.93	Pk	33.3	-32.8	.2	11.8	-51.43	-13	-38.43	0-360	200	V
2	6.4171	-64.61	Pk	35.5	-31.2	.7	11.8	-47.81	-13	-34.81	0-360	101	H
3	9.0541	-65.01	Pk	36	-28.8	.6	11.8	-45.41	-13	-32.41	0-360	200	H
6	9.0775	-65.13	Pk	36.1	-28.8	.7	11.8	-45.33	-13	-32.33	0-360	300	V

Pk - Peak detector



Rev 9.5 18 Oct 2021



Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.9189	-62.58	Pk	31	-35.1	.4	11.8	-54.48	-13	-41.48	0-360	300	H
4	2.4967	-62.47	Pk	32.3	-33.9	.4	11.8	-51.87	-13	-38.87	0-360	200	V
5	4.5874	-63.17	Pk	33.9	-32.5	.3	11.8	-49.67	-13	-36.67	0-360	200	V
2	6.2965	-63.62	Pk	35.4	-31	.6	11.8	-46.82	-13	-33.82	0-360	200	H
3	9.0667	-64.09	Pk	36	-28.9	.7	11.8	-44.49	-13	-31.49	0-360	101	H
6	9.0928	-64.53	Pk	36.1	-28.7	.7	11.8	-44.63	-13	-31.63	0-360	300	V

Pk - Peak detector

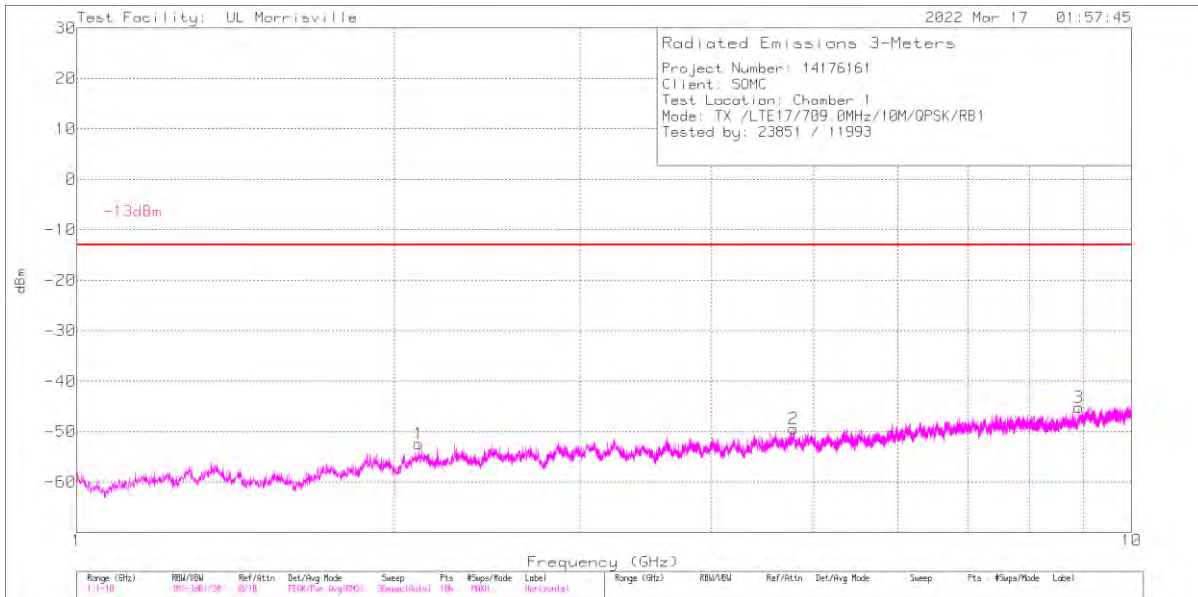
### 11.1.6. LTE17

#### LIMITS

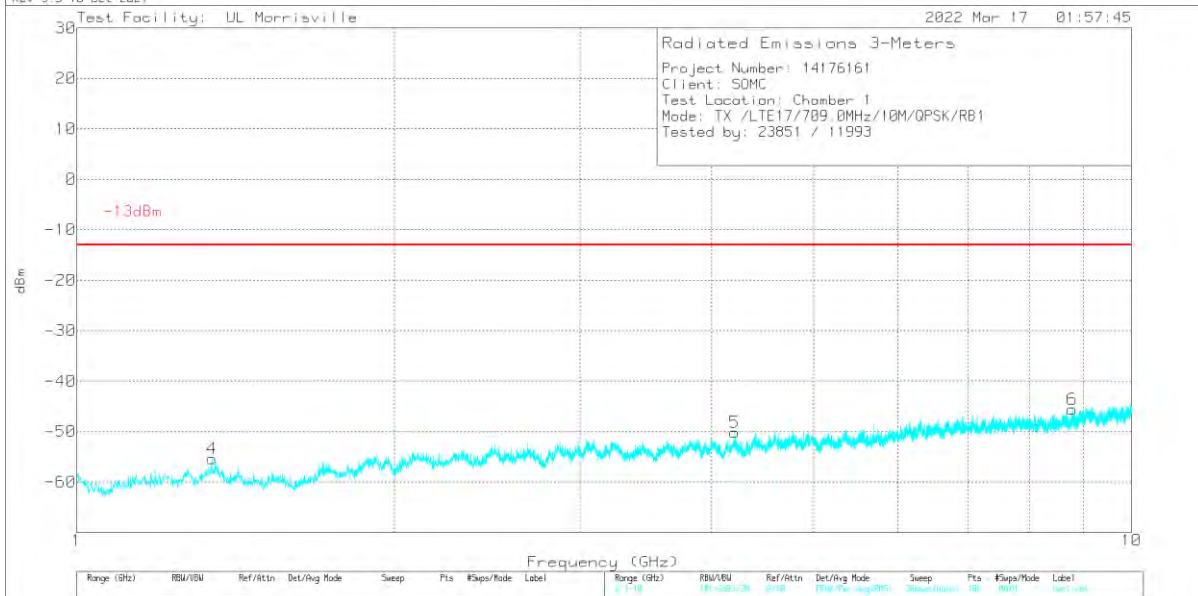
FCC: §27.53 (g)

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.

**QPSK LTE17 (10MHz)**



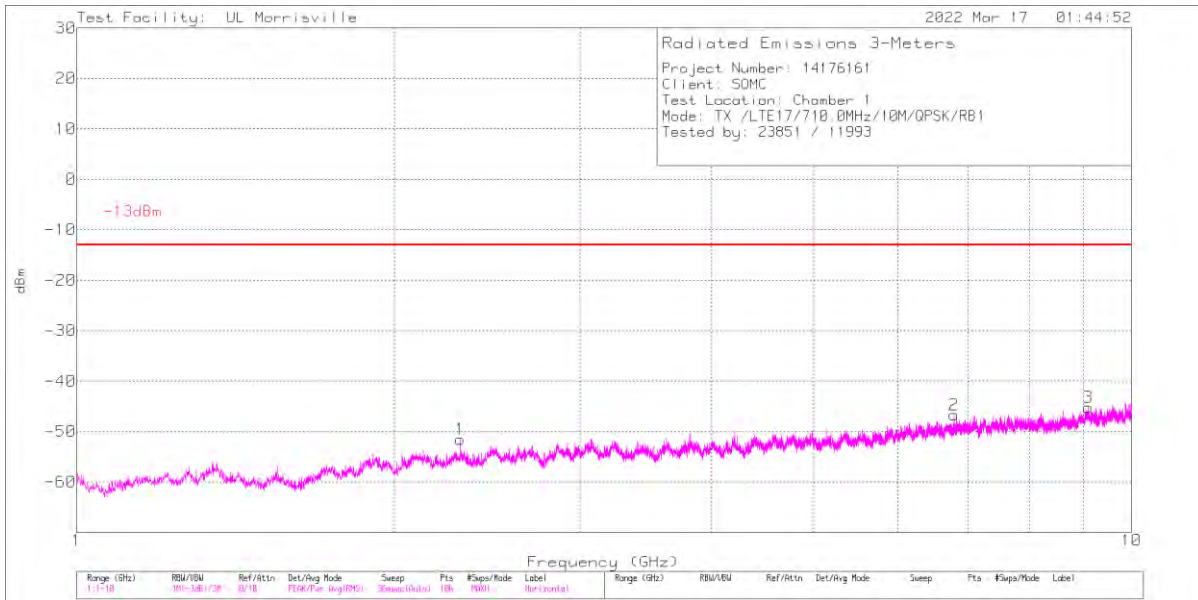
Rev. 9.5 18 Oct 2021



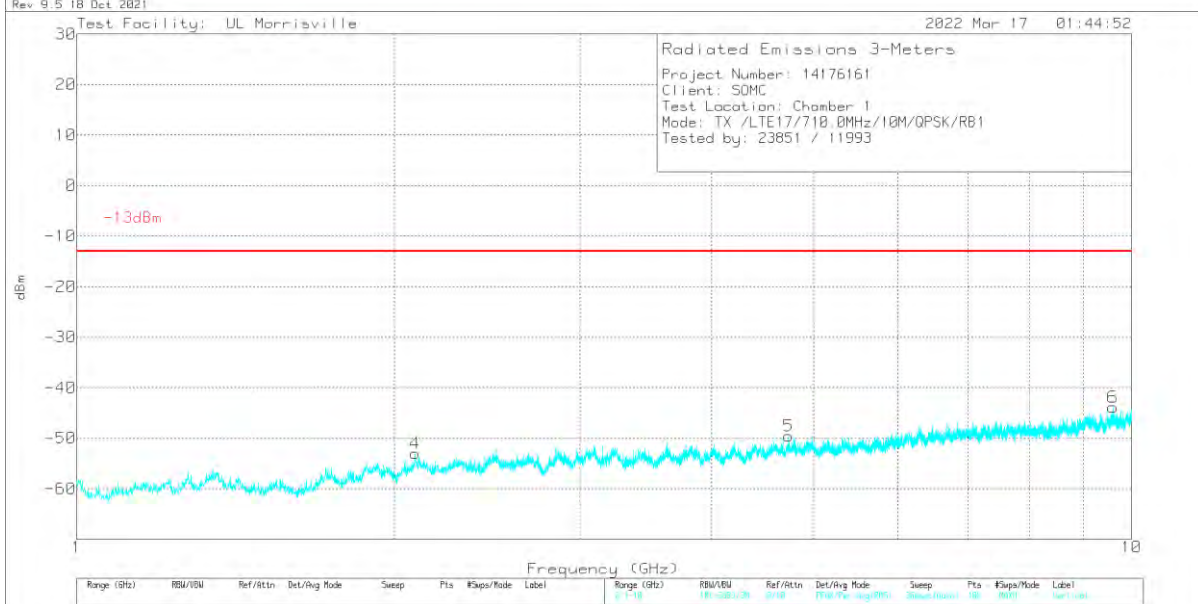
Rev. 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.3429	-61.24	Pk	29.4	-36.3	.9	11.8	-55.44	-13	-42.44	0-360	101	V
1	2.1106	-61.52	Pk	31.8	-34.9	.4	11.8	-52.42	-13	-39.42	0-360	200	H
5	4.2085	-63.22	Pk	33.3	-32.3	.3	11.8	-50.12	-13	-37.12	0-360	101	V
2	4.7854	-63.06	Pk	33.9	-32.4	.3	11.8	-49.46	-13	-36.46	0-360	200	H
6	8.7868	-64.88	Pk	35.9	-28.9	.5	11.8	-45.58	-13	-32.58	0-360	300	V
3	8.9182	-64.53	Pk	36	-29.1	.6	11.8	-45.23	-13	-32.23	0-360	200	H

Pk - Peak detector



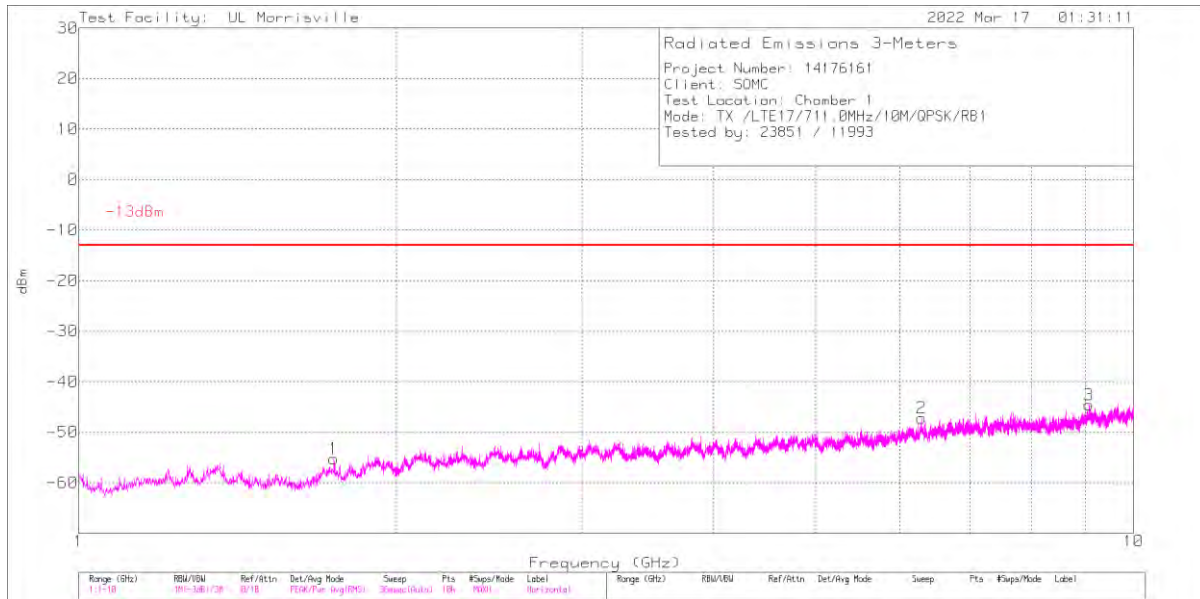
Rev 9.5 18 Oct 2021



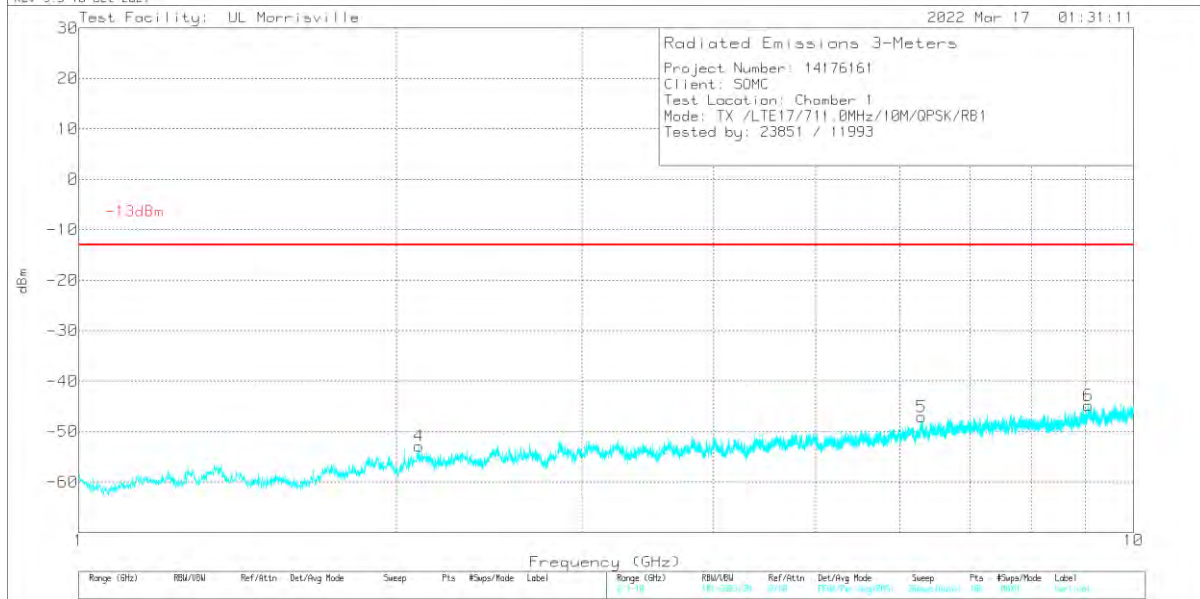
Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.0926	-61.84	Pk	31.8	-35.1	.3	11.8	-53.04	-13	-40.04	0-360	101	V
1	2.3095	-61.06	Pk	31.7	-34.4	.4	11.8	-51.56	-13	-38.56	0-360	101	H
5	4.7305	-63.13	Pk	33.9	-32.4	.3	11.8	-49.53	-13	-36.53	0-360	101	V
2	6.7924	-64.26	Pk	35.5	-30.4	.7	11.8	-46.66	-13	-33.66	0-360	200	H
3	9.0928	-65.09	Pk	36.1	-28.7	.7	11.8	-45.19	-13	-32.19	0-360	101	H
6	9.604	-64.19	Pk	36.5	-28.7	.8	11.8	-43.79	-13	-30.79	0-360	300	V

Pk - Peak detector



Rev. 9.5 18 Oct 2021

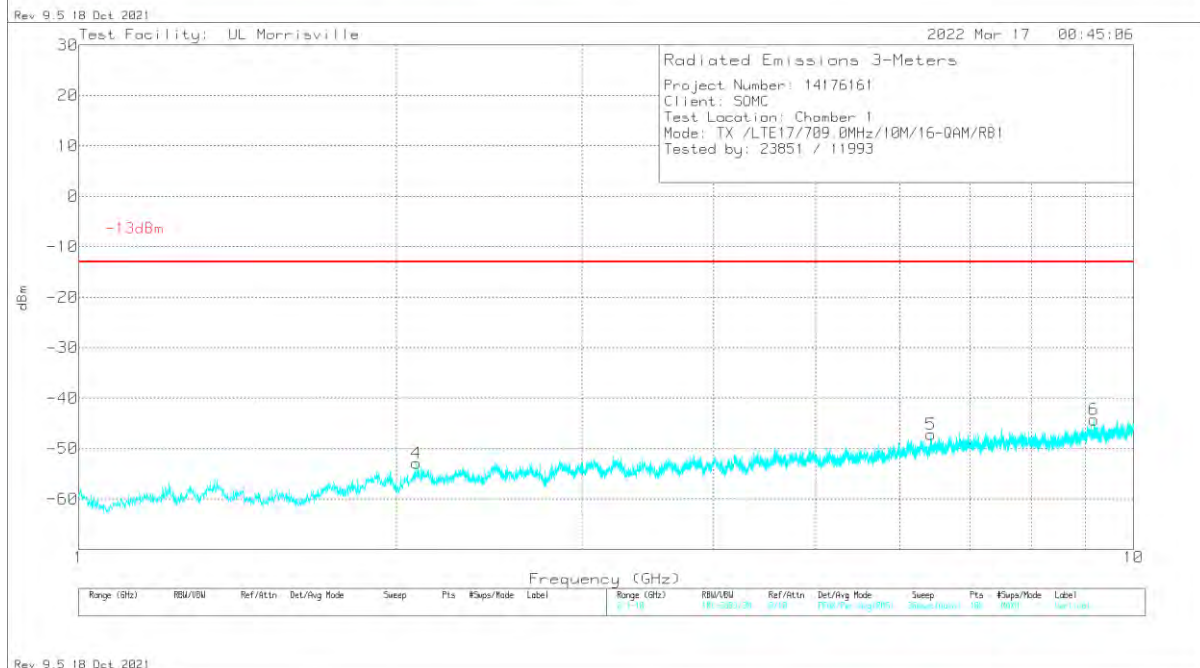
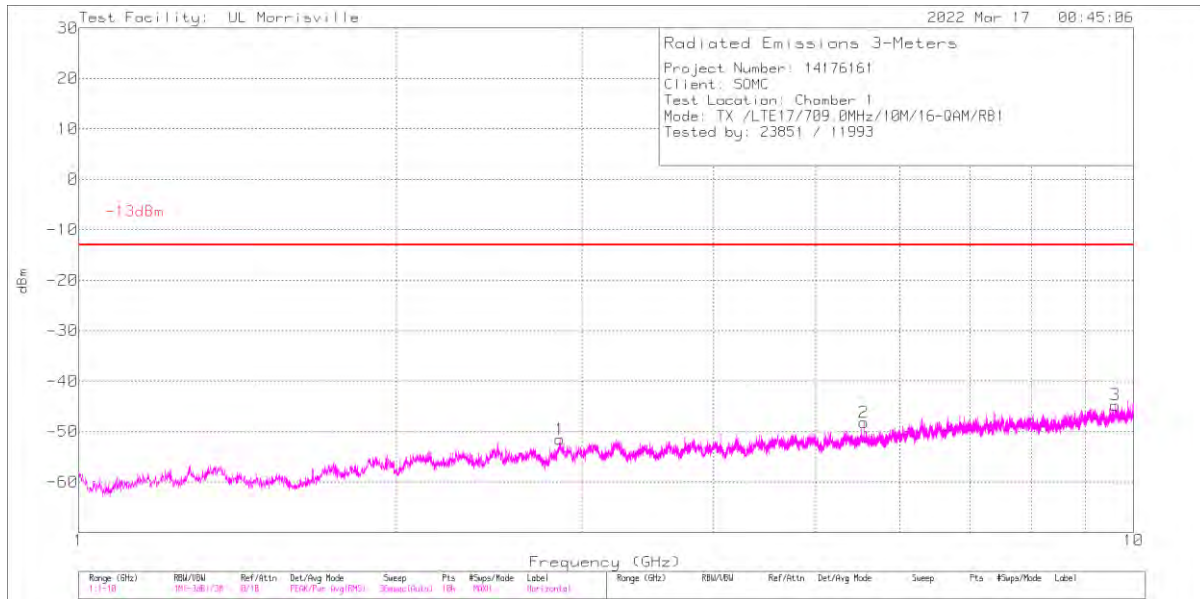


Rev. 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.7452	-61.42	Pk	29.6	-35.6	.4	11.8	-55.22	-13	-42.22	0-360	199	H
4	2.1007	-61.87	Pk	31.8	-34.9	.3	11.8	-52.87	-13	-39.87	0-360	101	V
2	6.2974	-64.07	Pk	35.4	-30.9	.6	11.8	-47.17	-13	-34.17	0-360	101	H
5	6.2992	-64.29	Pk	35.4	-30.6	.6	11.8	-47.09	-13	-34.09	0-360	101	V
6	9.0568	-64.38	Pk	36	-28.8	.6	11.8	-44.78	-13	-31.78	0-360	101	V
3	9.0703	-64.32	Pk	36	-28.8	.7	11.8	-44.62	-13	-31.62	0-360	199	H

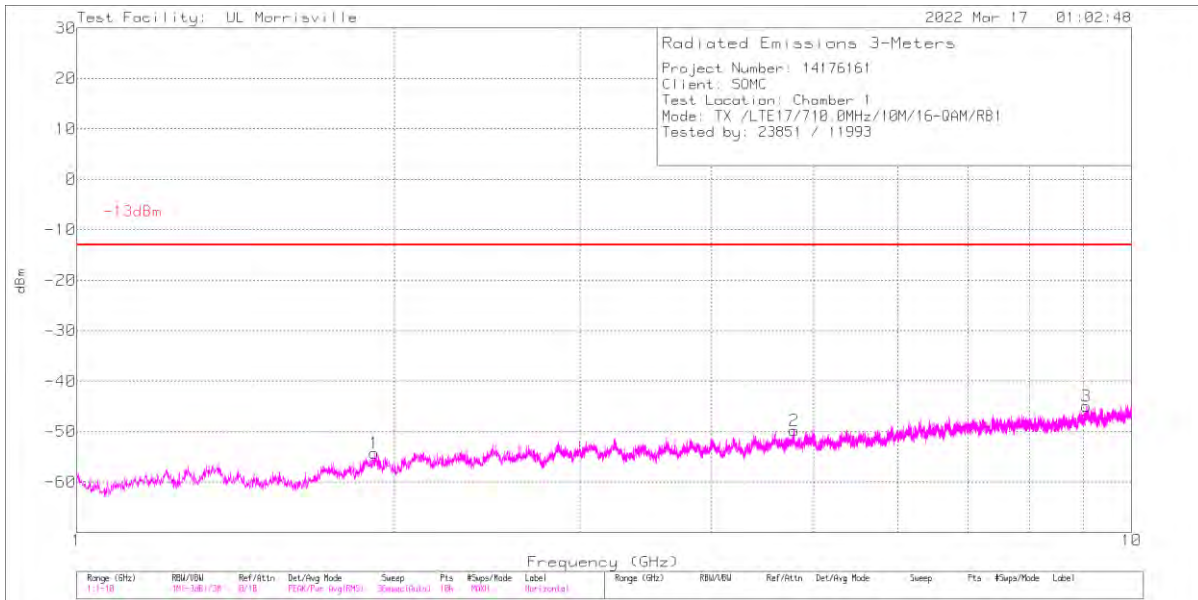
Pk - Peak detector

**16QAM LTE17 (10MHz)**

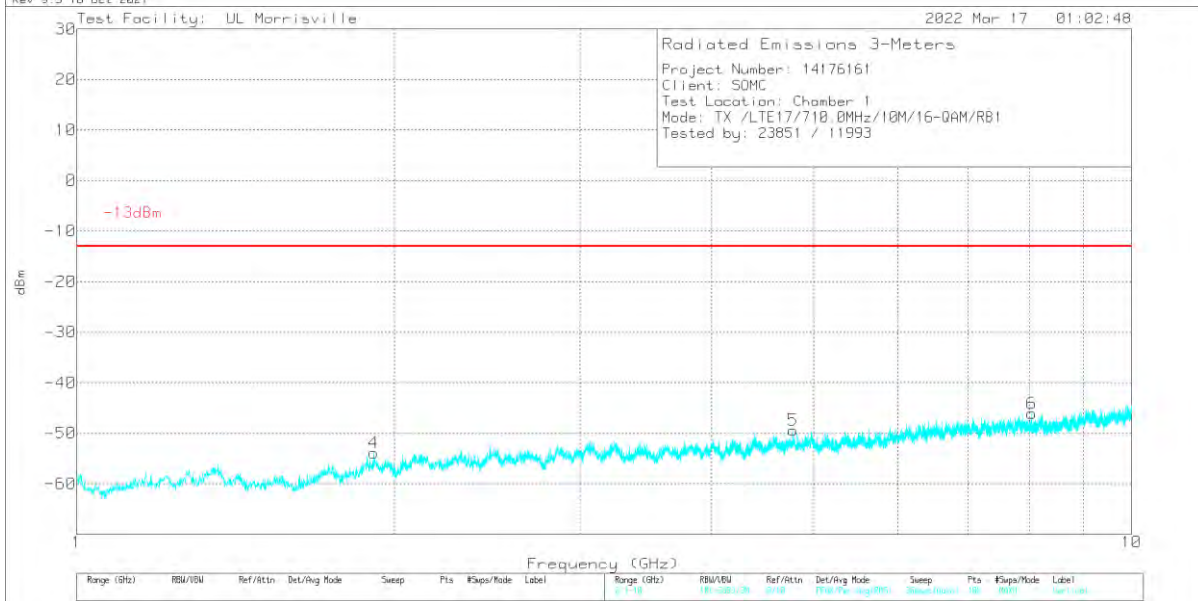


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.0899	-61.68	Pk	31.8	-35.1	.3	11.8	-52.88	-13	-39.88	0-360	101	V
1	2.8612	-62.86	Pk	32.6	-33.5	.4	11.8	-51.56	-13	-38.56	0-360	200	H
2	5.5504	-62.9	Pk	34.4	-31.9	.4	11.8	-48.2	-13	-35.2	0-360	101	H
5	6.4234	-64.44	Pk	35.5	-30.7	.7	11.8	-47.14	-13	-34.14	0-360	300	V
6	9.1684	-63.87	Pk	36.1	-28.8	.5	11.8	-44.27	-13	-31.27	0-360	101	V
3	9.6157	-65.77	Pk	36.6	-28.3	.9	11.8	-44.77	-13	-31.77	0-360	299	H

Pk - Peak detector



Rev. 9.5 18 Oct 2021

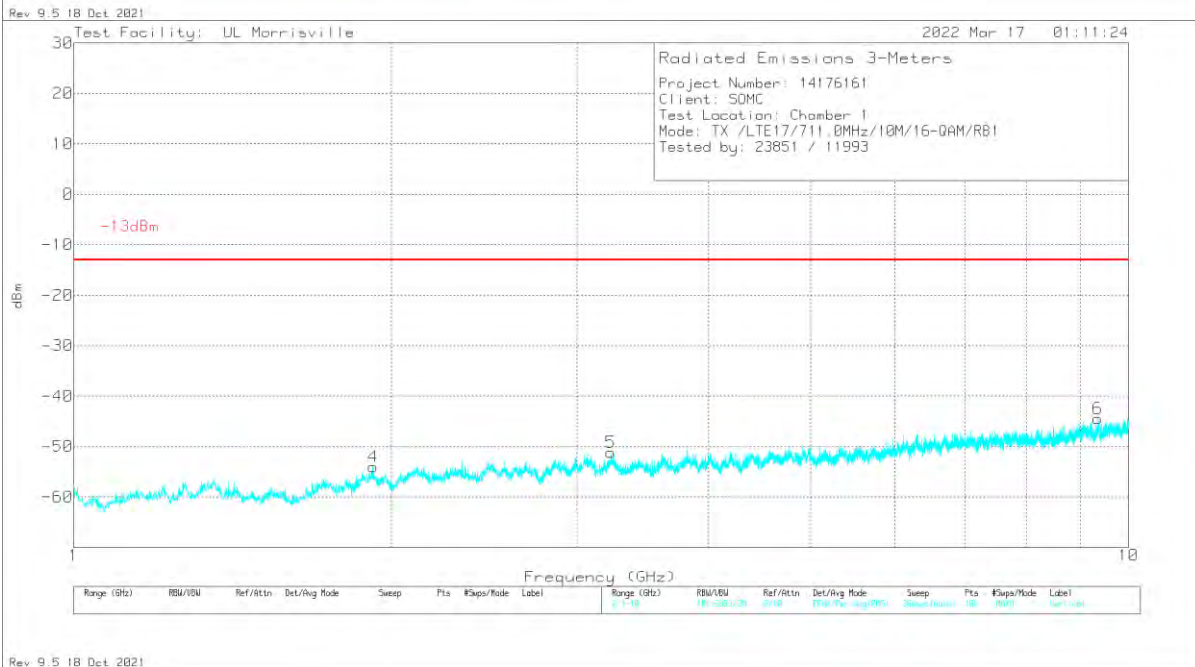
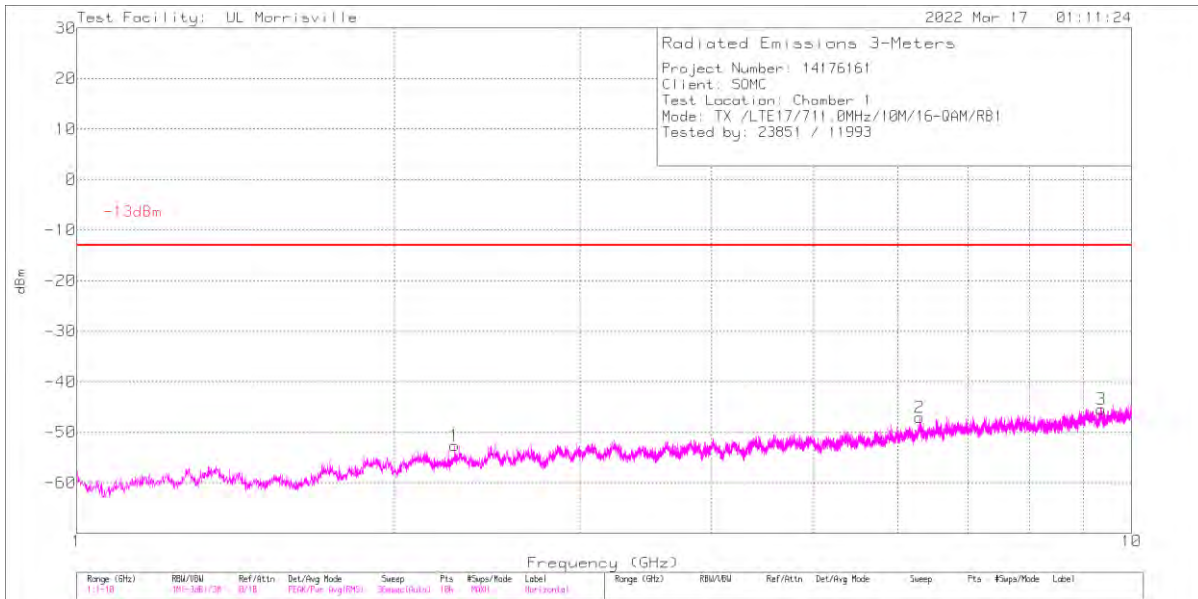


Rev. 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.9135	-61.95	Pk	30.9	-35.1	.4	11.8	-53.95	-13	-40.95	0-360	300	V
1	1.9162	-62.34	Pk	31	-35.1	.4	11.8	-54.24	-13	-41.24	0-360	299	H
5	4.7737	-63.01	Pk	33.9	-32.4	.3	11.8	-49.41	-13	-36.41	0-360	300	V
2	4.7881	-63.54	Pk	33.9	-32.3	.3	11.8	-49.84	-13	-36.84	0-360	101	H
6	8.0398	-65.19	Pk	35.7	-28.8	.4	11.8	-46.09	-13	-33.09	0-360	201	V
3	9.0604	-64.59	Pk	36	-28.8	.6	11.8	-44.99	-13	-31.99	0-360	101	H

Pk - Peak detector





Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.9225	-62.18	Pk	31	-35	.4	11.8	-53.98	-13	-40.98	0-360	200	V
1	2.2825	-62.01	Pk	31.6	-34.4	.4	11.8	-52.61	-13	-39.61	0-360	200	H
5	3.2284	-63.12	Pk	33.2	-33.6	.6	11.8	-51.12	-13	-38.12	0-360	300	V
2	6.301	-64.19	Pk	35.4	-30.7	.6	11.8	-47.09	-13	-34.09	0-360	300	H
6	9.3493	-64.77	Pk	36.3	-28.6	.8	11.8	-44.47	-13	-31.47	0-360	300	V
3	9.3592	-66.54	Pk	36.3	-27.8	.8	11.8	-45.44	-13	-32.44	0-360	101	H

Pk - Peak detector

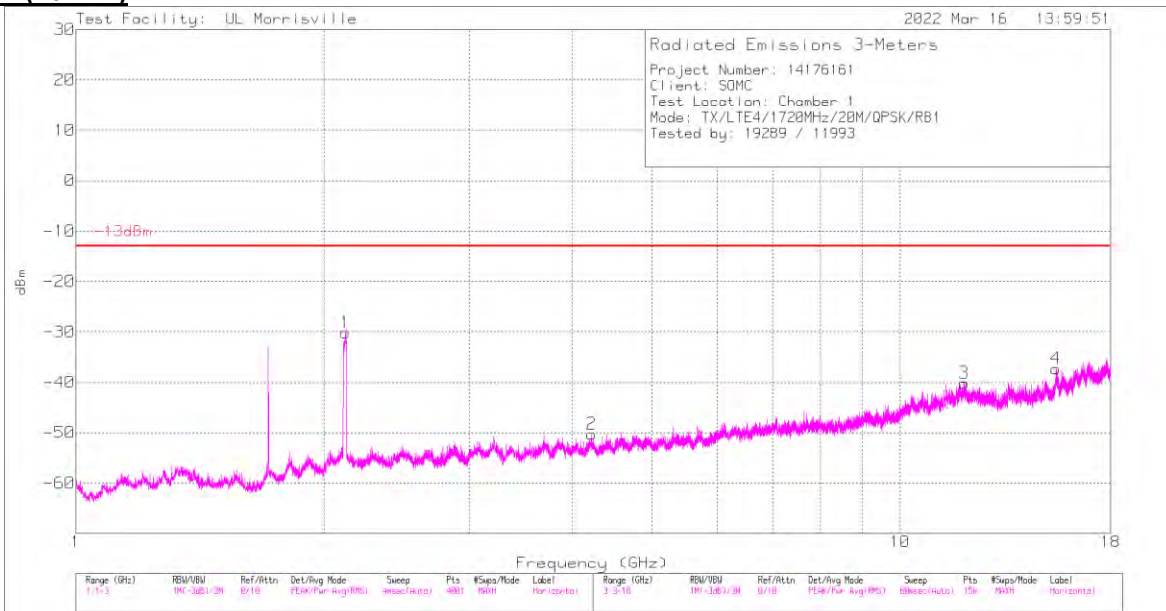
### 11.1.7. LTE4

#### LIMITS

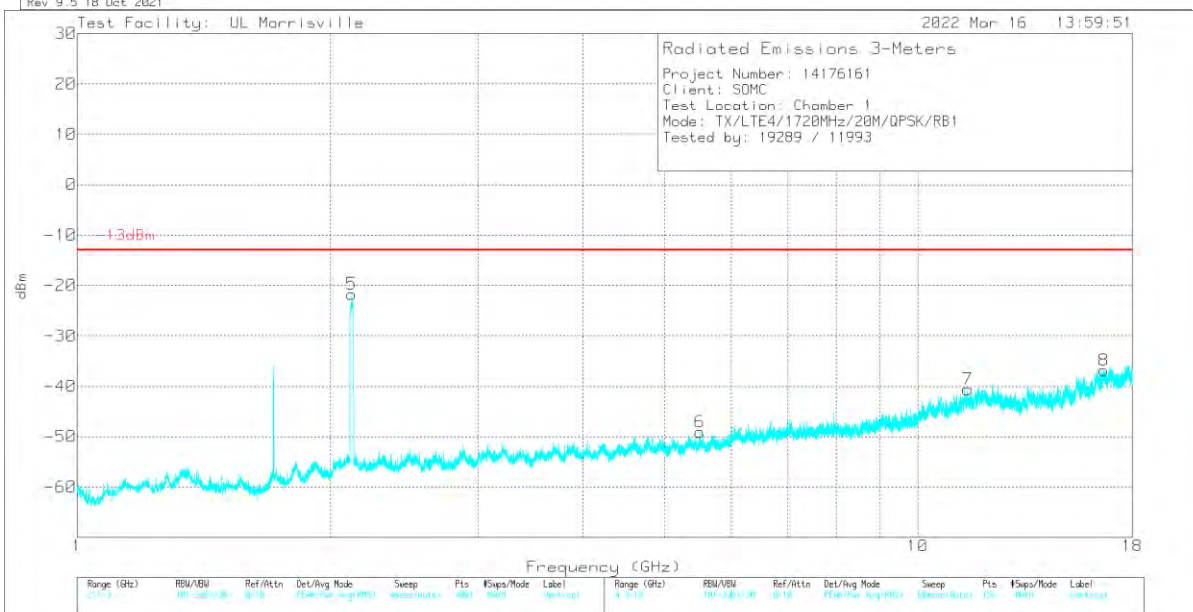
FCC: §27.53(h)

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.

**QPSK LTE4 (20MHz)**



Rev 9.5 18 Oct 2021



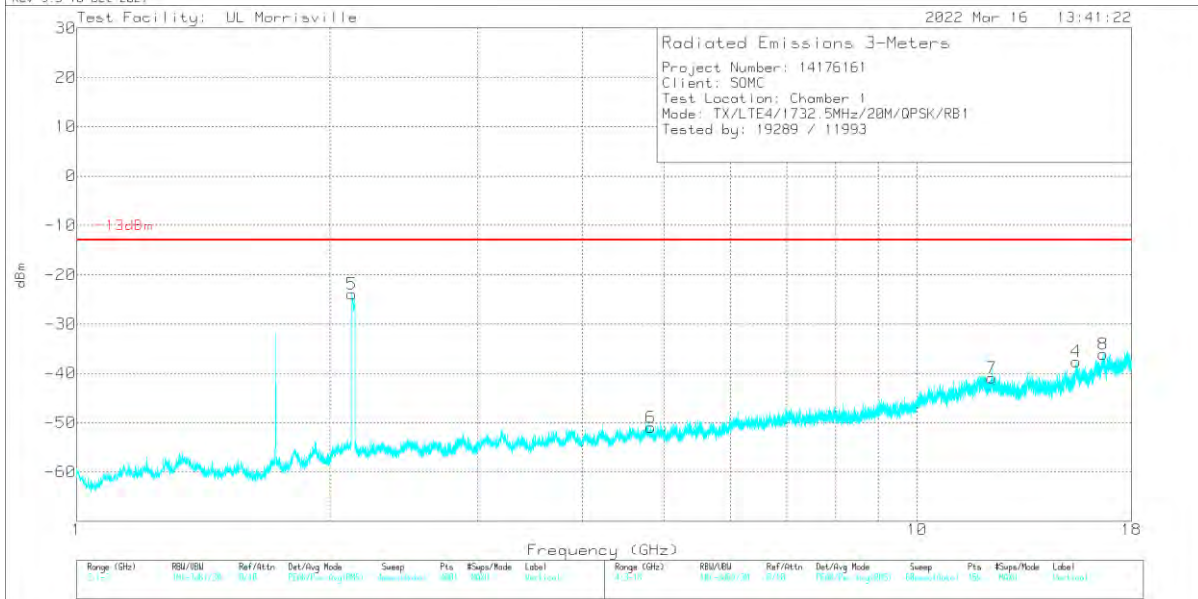
Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1 <sup>DL</sup>	2.122	-40.28	Pk	31.9	-34.6	11.8	1	-30.18	-	-	0-360	199	H
5 <sup>DL</sup>	2.122	-31.82	Pk	31.9	-34.6	11.8	1	-21.72	-	-	0-360	300	V
2	4.222	-64.25	Pk	33.3	-31.1	11.8	0	-50.25	-13	-37.25	0-360	101	H
6	5.509	-63.6	Pk	34.5	-31.8	11.8	0	-49.1	-13	-36.1	0-360	300	V
7	11.471	-65.61	Pk	38.1	-24.9	11.8	0	-40.61	-13	-27.61	0-360	201	V
3	11.963	-65.25	Pk	38.7	-25.4	11.8	0	-40.15	-13	-27.15	0-360	101	H
4	15.445	-65.99	Pk	40.4	-23.5	11.8	0	-37.29	-13	-24.29	0-360	200	H
8	16.656	-67.25	Pk	41.3	-22.7	11.8	0	-36.85	-13	-23.85	0-360	201	V

Pk - Peak detector



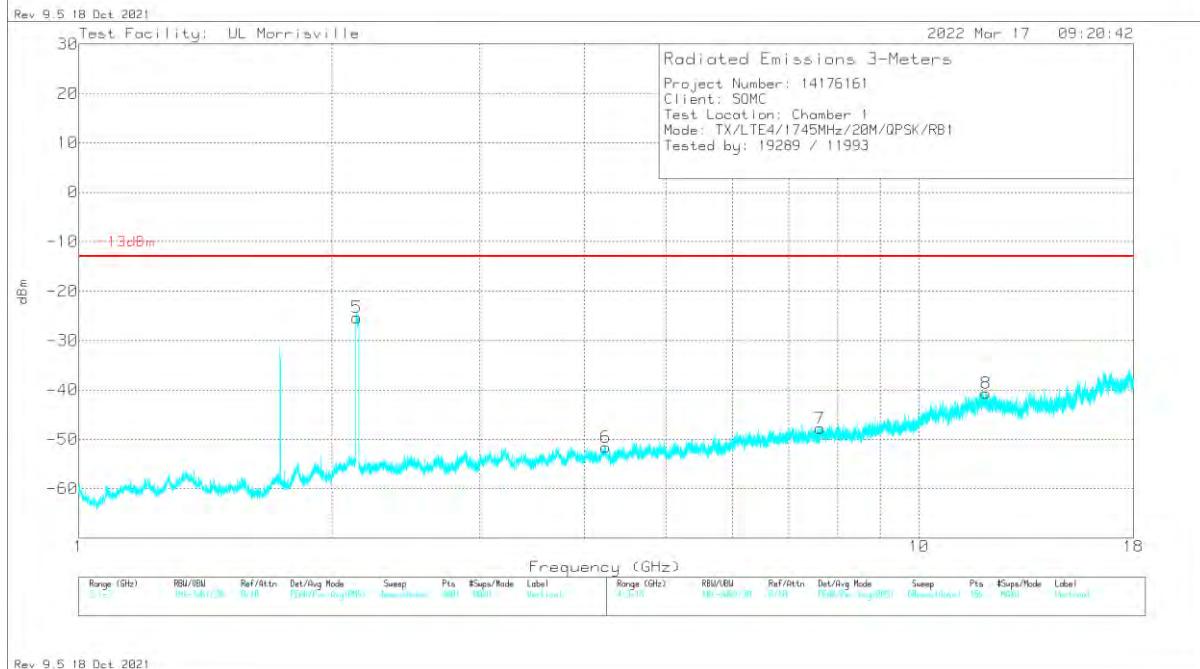
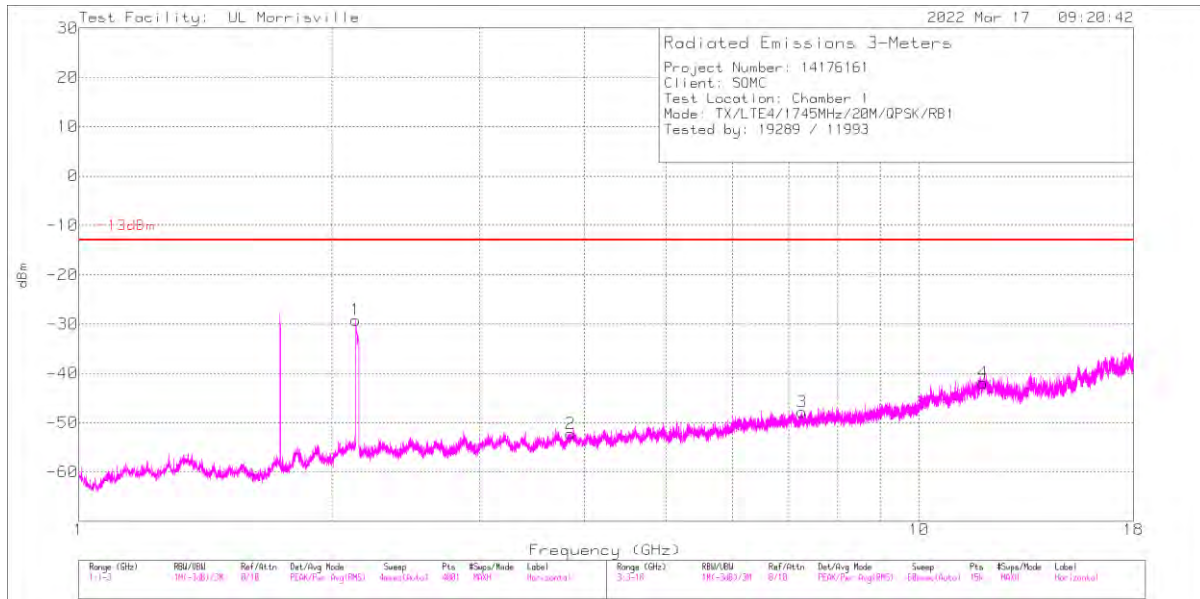
Rev. 9.5 18 Oct. 2021



Rev. 9.5 18 Oct. 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5 <sup>DL</sup>	2.1255	-33.82	Pk	32	-34.9	11.8	1	-23.92	-	-	0-360	299	V
1 <sup>DL</sup>	2.1315	-39.85	Pk	32	-34.9	11.8	1	-29.95	-	-	0-360	200	H
2	4.617	-64.48	Pk	34	-32.8	11.8	0	-51.48	-13	-38.48	0-360	101	H
6	4.82	-65.33	Pk	34	-31.4	11.8	0	-50.93	-13	-37.93	0-360	101	V
3	10.267	-66.1	Pk	37.3	-26.6	11.8	0	-43.6	-13	-30.6	0-360	299	H
7	12.268	-67.34	Pk	38.9	-24.3	11.8	0	-40.94	-13	-27.94	0-360	201	V
4	15.475	-66.46	Pk	40.4	-23.3	11.8	0	-37.56	-13	-24.56	0-360	101	V
8	16.656	-66.48	Pk	41.3	-22.7	11.8	0	-36.08	-13	-23.08	0-360	101	V

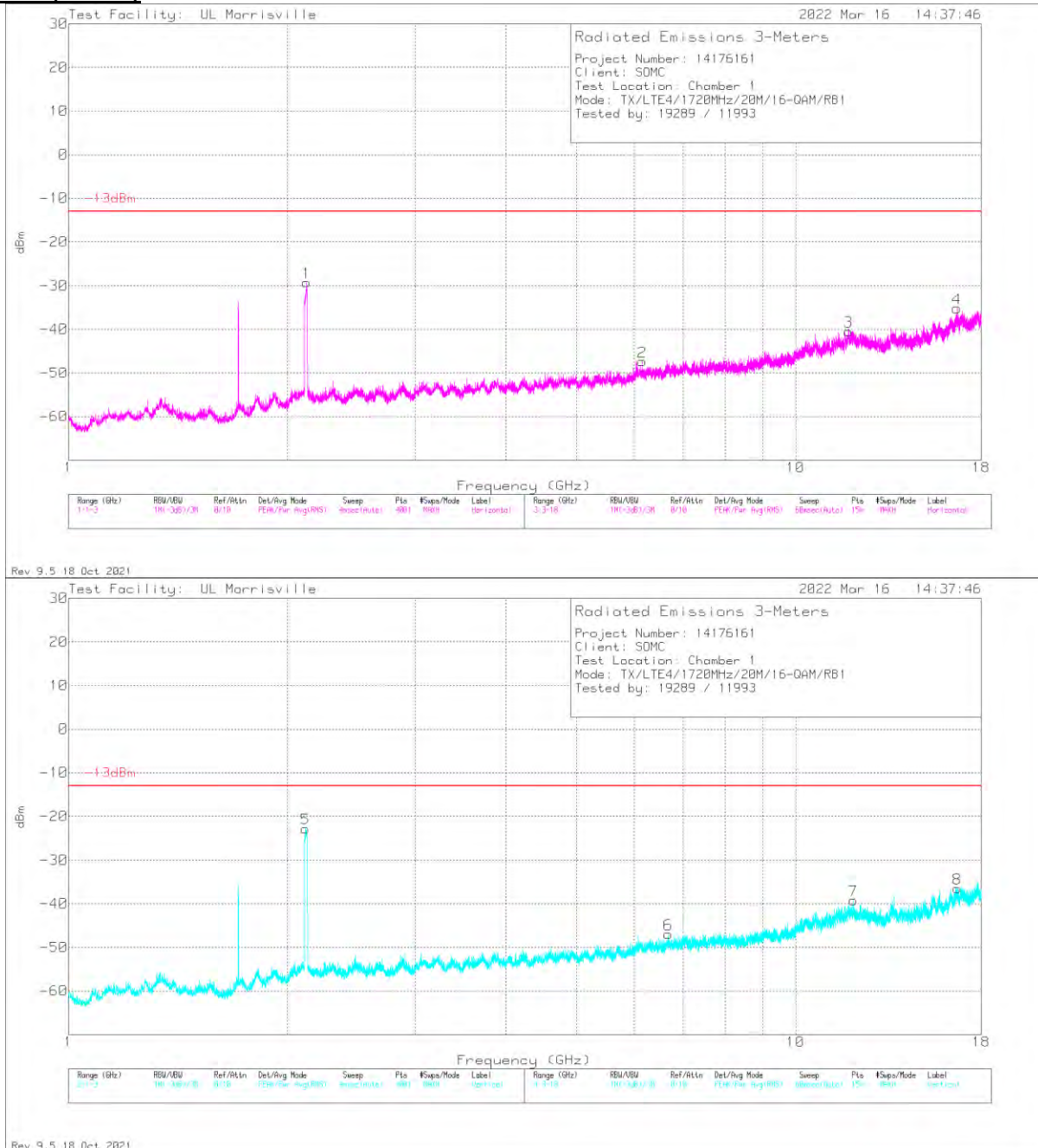
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1 <sup>DL</sup>	2.137	-39.18	Pk	32.1	-34.9	11.8	1	-29.18	-13	-16.18	0-360	200	H
5 <sup>DL</sup>	2.1445	-35.47	Pk	32.1	-34.8	11.8	1	-25.37	-13	-12.37	0-360	200	V
2	3.851	-65.39	Pk	33.4	-32	11.8	0	-52.19	-13	-39.19	0-360	200	H
6	4.236	-65.07	Pk	33.3	-31.6	11.8	0	-51.57	-13	-38.57	0-360	201	V
3	7.258	-66.08	Pk	35.5	-29	11.8	0	-47.78	-13	-34.78	0-360	300	H
7	7.622	-66.43	Pk	35.7	-28.9	11.8	0	-47.83	-13	-34.83	0-360	300	V
4	11.913	-66.88	Pk	38.7	-25.6	11.8	0	-41.98	-13	-28.98	0-360	200	H
8	12.024	-66.18	Pk	38.8	-25.1	11.8	0	-40.68	-13	-27.68	0-360	101	V

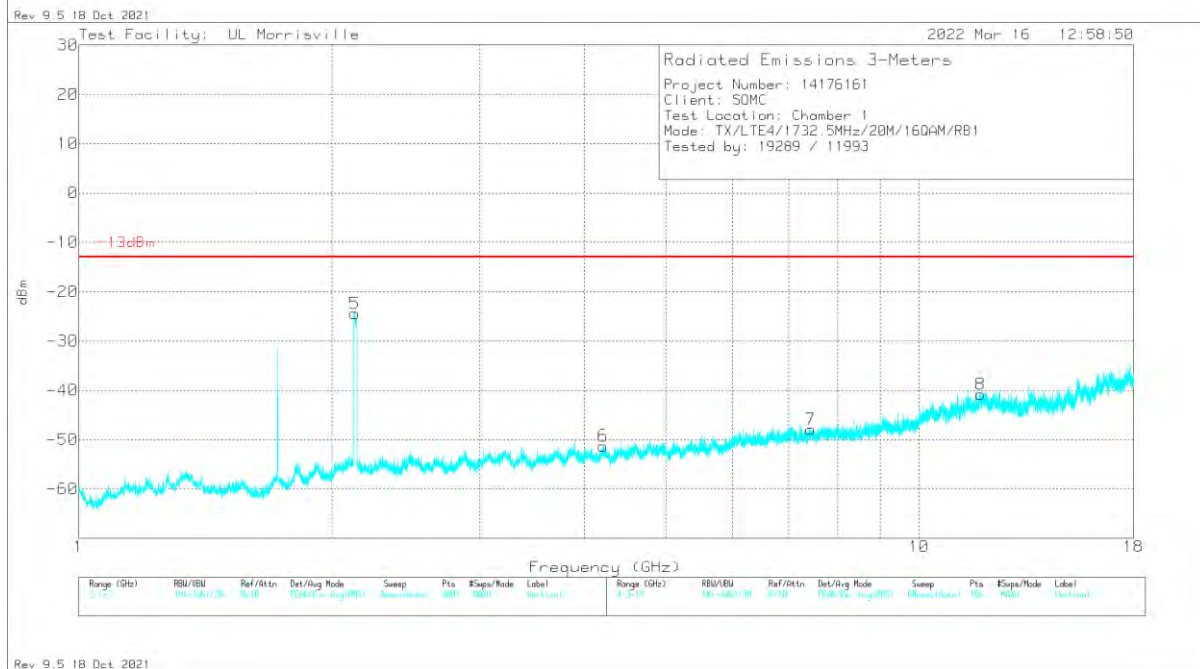
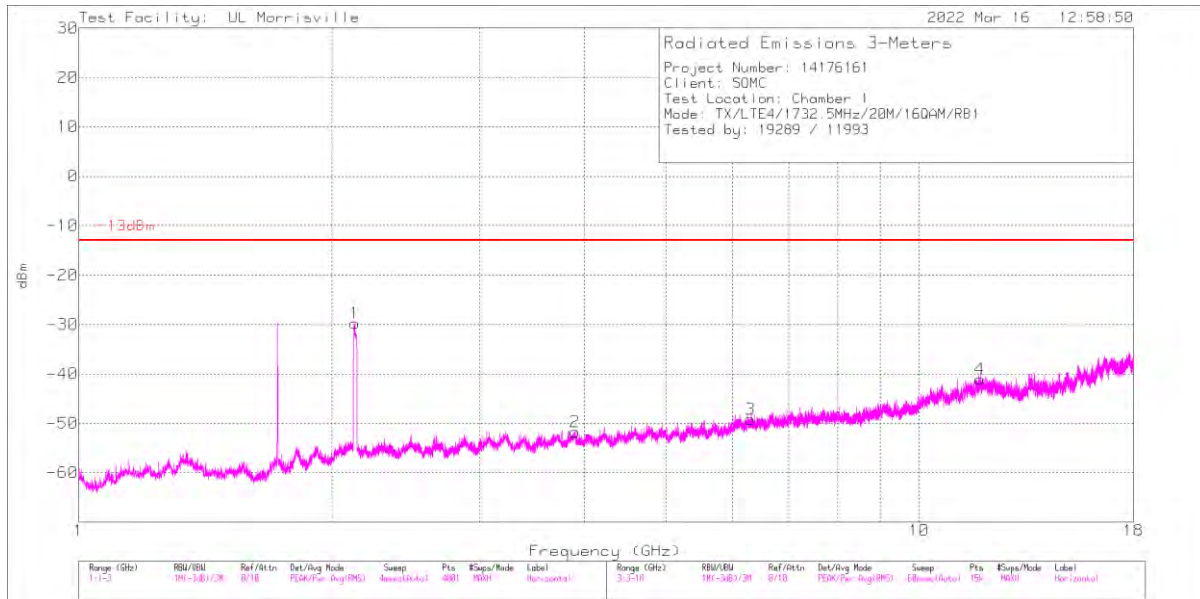
Pk - Peak detector

**16QAM LTE4 (20MHz)**



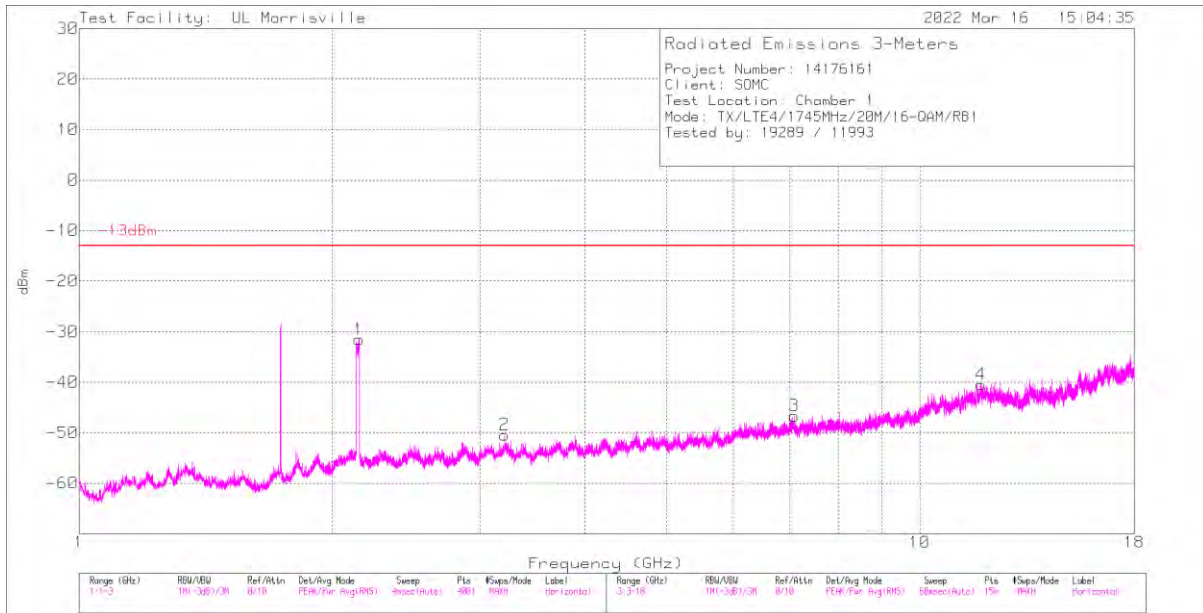
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5DL	2.118	-32.35	Pk	31.9	-35.1	11.8	1	-22.75	-	-	0-360	299	V
1DL	2.126	-39.16	Pk	32	-34.9	11.8	1	-29.26	-	-	0-360	200	H
2	6.153	-63.05	Pk	35.4	-31.5	11.8	0	-47.35	-13	-34.35	0-360	300	H
6	6.683	-64.95	Pk	35.5	-29.3	11.8	0	-46.95	-13	-33.95	0-360	200	V
3	11.821	-65.85	Pk	38.6	-25	11.8	0	-40.45	-13	-27.45	0-360	300	H
7	12.014	-65.01	Pk	38.8	-24.8	11.8	0	-39.21	-13	-26.21	0-360	200	V
4	16.672	-65.79	Pk	41.3	-22.5	11.8	0	-35.19	-13	-22.19	0-360	101	H
8	16.692	-66.49	Pk	41.3	-23.1	11.8	0	-36.49	-13	-23.49	0-360	101	V

Pk - Peak detector

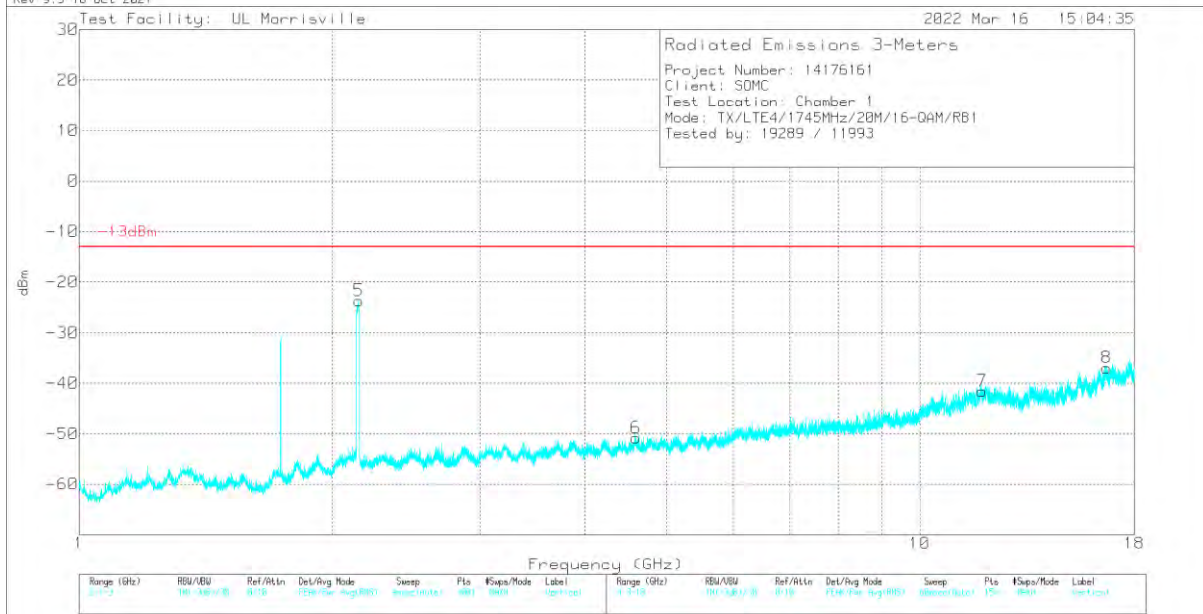


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1 <sup>DL</sup>	2.1305	-39.68	Pk	32	-34.9	11.8	1	-29.78	-	-	0-360	300	H
5 <sup>DL</sup>	2.1305	-34.37	Pk	32	-34.9	11.8	1	-24.47	-	-	0-360	300	V
2	3.896	-65.55	Pk	33.3	-31.3	11.8	0	-51.75	-13	-38.75	0-360	100	H
6	4.21	-65.17	Pk	33.3	-31.2	11.8	0	-51.27	-13	-38.27	0-360	201	V
3	6.302	-66.55	Pk	35.4	-29.8	11.8	0	-49.15	-13	-36.15	0-360	200	H
7	7.429	-66.55	Pk	35.6	-28.8	11.8	0	-47.95	-13	-34.95	0-360	201	V
4	11.821	-66.44	Pk	38.6	-25	11.8	0	-41.04	-13	-28.04	0-360	200	H
8	11.828	-66.65	Pk	38.6	-24.6	11.8	0	-40.85	-13	-27.85	0-360	201	V

Pk - Peak detector



Rev 9.5 18 Oct 2021



Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5 <sup>DL</sup>	2.1495	-34.08	Pk	32.1	-34.5	11.8	1	-23.68	-	-	0-360	200	V
1 <sup>DL</sup>	2.1525	-41.83	Pk	32	-34.5	11.8	1	-31.53	-	-	0-360	200	H
2	3.205	-63.02	Pk	33.4	-32.6	11.8	0	-50.42	-13	-37.42	0-360	300	H
6	4.594	-64.71	Pk	33.9	-31.8	11.8	0	-50.81	-13	-37.81	0-360	300	V
3	7.087	-64.75	Pk	35.6	-29.3	11.8	0	-46.65	-13	-33.65	0-360	101	H
4	11.823	-65.88	Pk	38.6	-25	11.8	0	-40.48	-13	-27.48	0-360	300	H
7	11.872	-65.88	Pk	38.6	-26.1	11.8	0	-41.58	-13	-28.58	0-360	300	V
8	16.674	-67.36	Pk	41.3	-22.7	11.8	0	-36.96	-13	-23.96	0-360	101	V

Pk - Peak detector



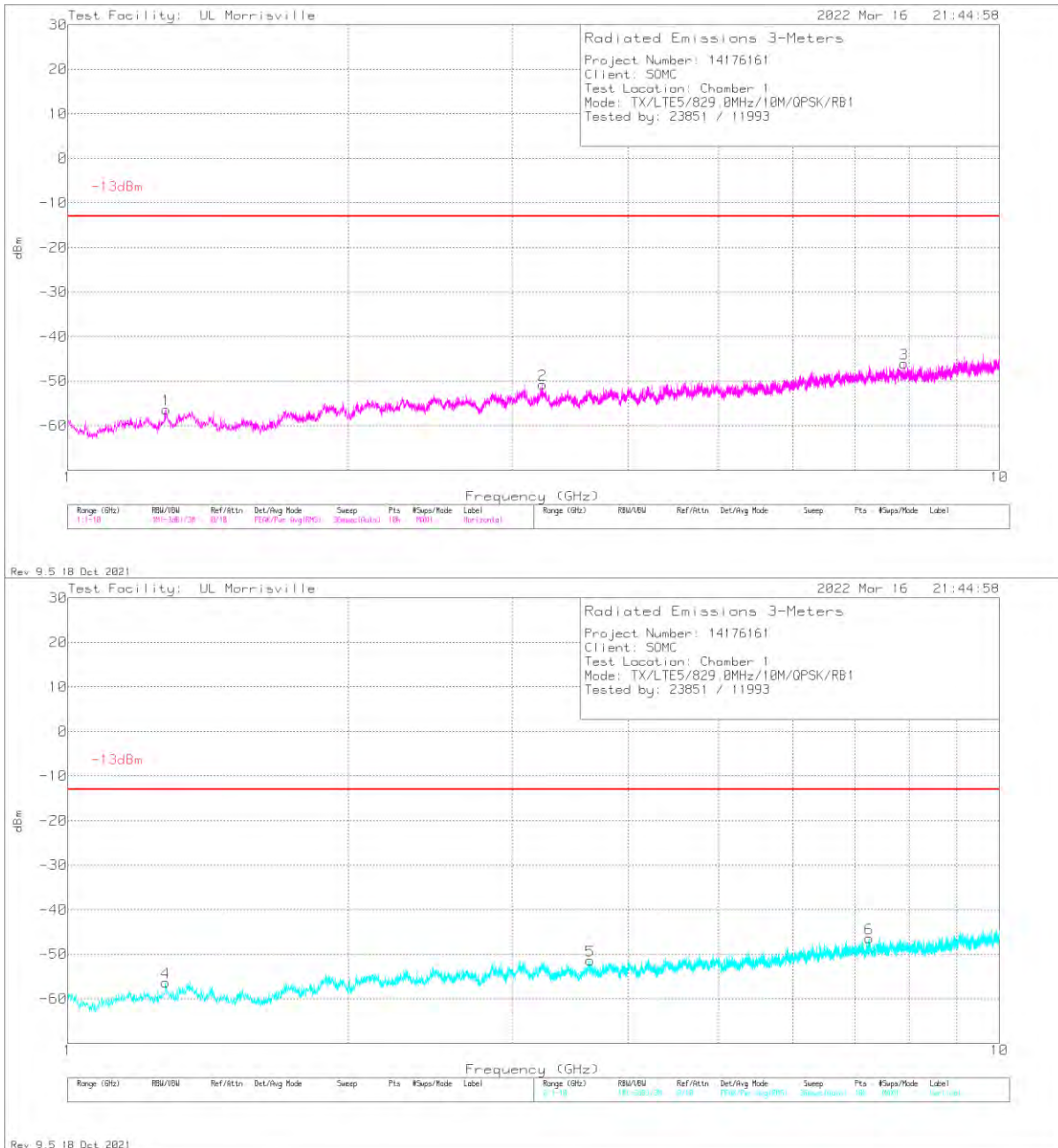
### 11.1.8. LTE5

#### LIMITS

FCC: §22.917 (a)

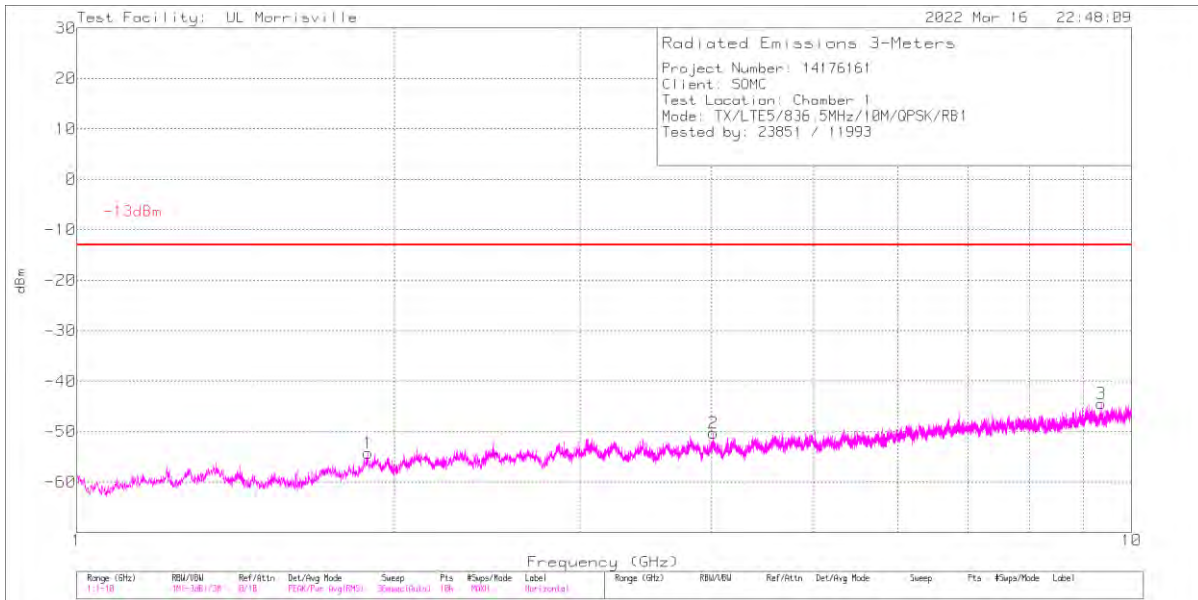
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

**QPSK LTE5 (10MHz)**

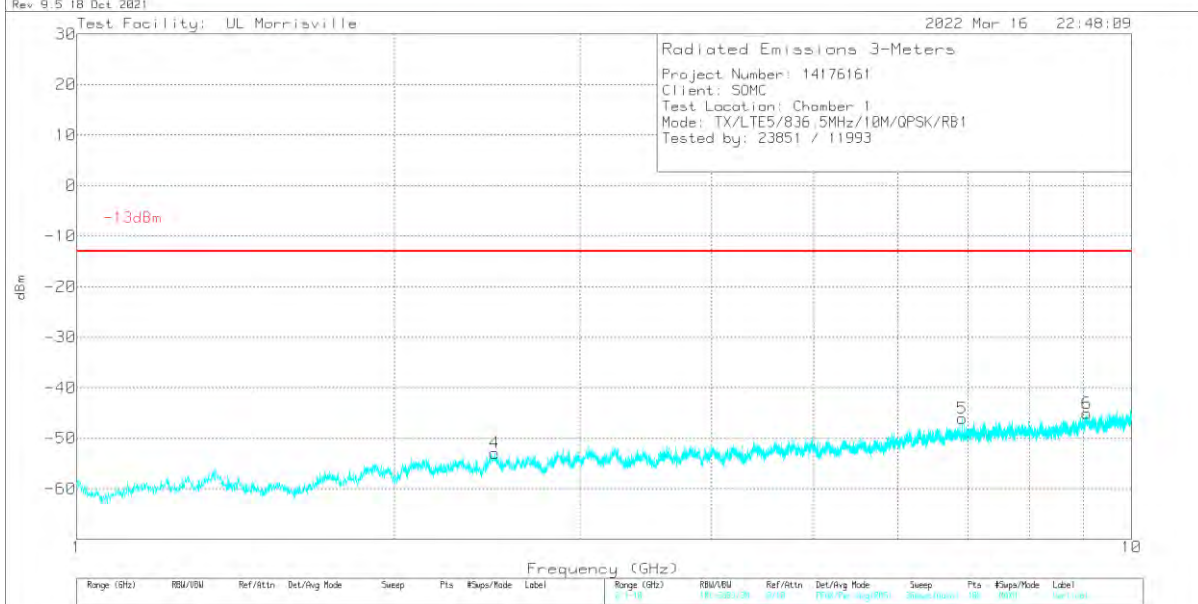


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.2745	-62.37	Pk	29.6	-36.4	1	11.8	-56.37	-13	-43.37	0-360	101	V
1	1.2763	-62.37	Pk	29.6	-36.4	1	11.8	-56.37	-13	-43.37	0-360	101	H
2	3.2338	-63.12	Pk	33.1	-33.2	.6	11.8	-50.82	-13	-37.82	0-360	101	H
5	3.6397	-63.53	Pk	33	-33.1	.4	11.8	-51.43	-13	-38.43	0-360	101	V
6	7.2541	-65.1	Pk	35.5	-29.2	.5	11.8	-46.5	-13	-33.5	0-360	101	V
3	7.8994	-65.05	Pk	35.8	-29.1	.5	11.8	-46.05	-13	-33.05	0-360	101	H

Pk - Peak detector



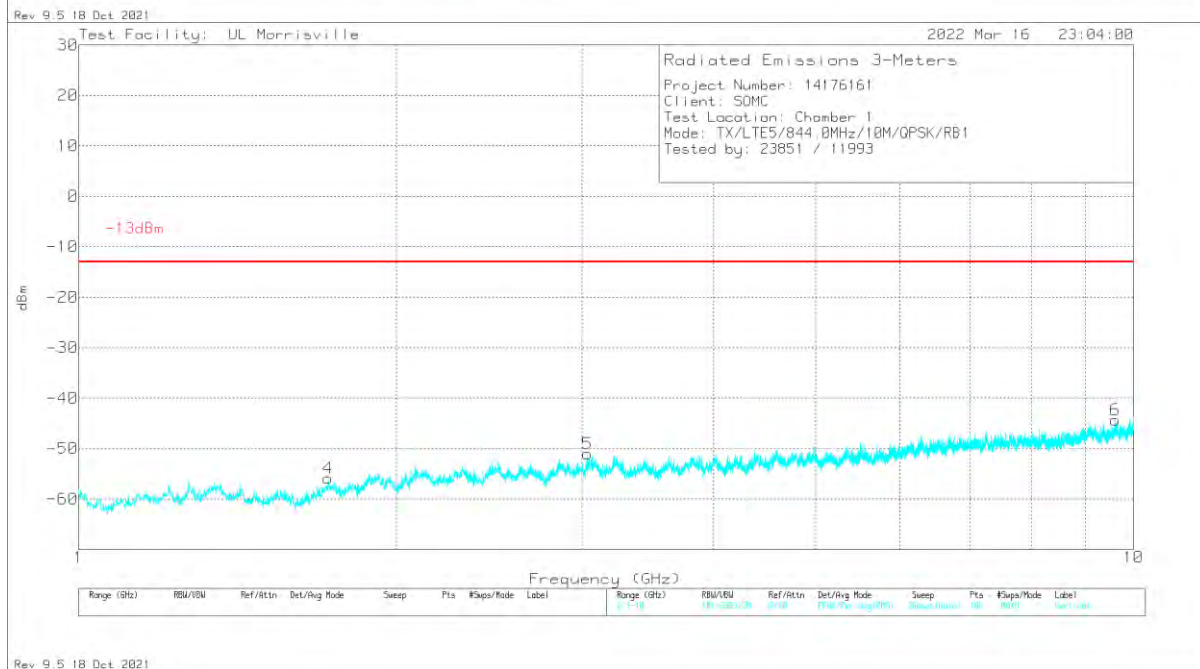
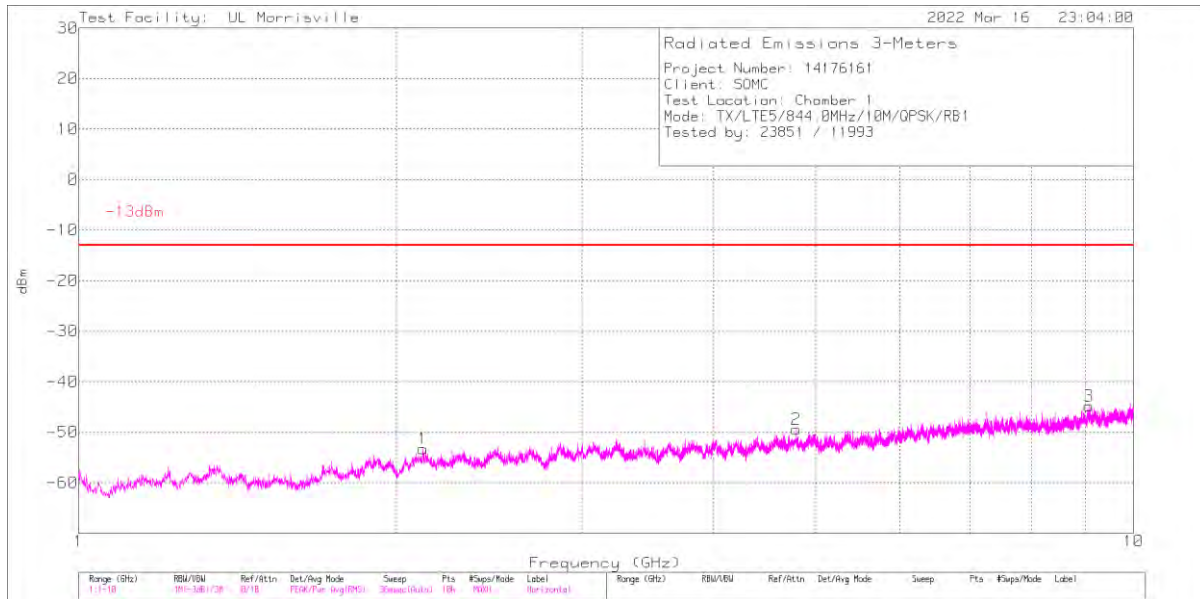
Rev 9.5 18 Oct 2021



Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.8883	-62.29	Pk	31	-35.2	.4	11.8	-54.29	-13	-41.29	0-360	101	H
4	2.4904	-63.46	Pk	32.3	-34	.4	11.8	-52.96	-13	-39.96	0-360	300	V
2	4.0168	-63.21	Pk	33.2	-32.5	.4	11.8	-50.31	-13	-37.31	0-360	200	H
5	6.9103	-63.56	Pk	35.6	-30.5	.6	11.8	-46.06	-13	-33.06	0-360	101	V
6	9.0685	-64.76	Pk	36	-28.8	.7	11.8	-45.06	-13	-32.06	0-360	101	V
3	9.361	-65.47	Pk	36.3	-27.9	.8	11.8	-44.47	-13	-31.47	0-360	300	H

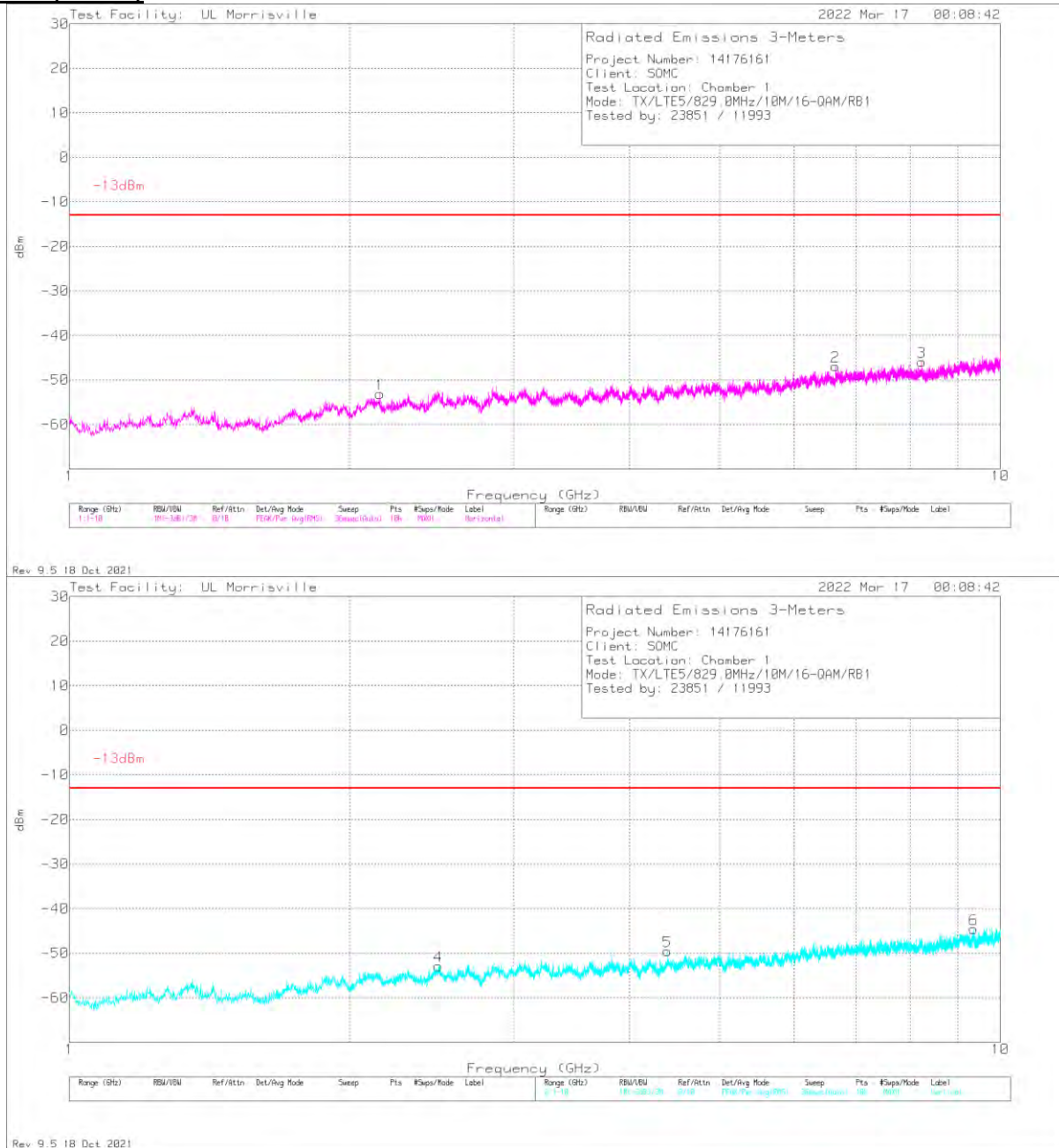
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.7245	-61.93	Pk	29.4	-35.5	.4	11.8	-55.83	-13	-42.83	0-360	201	V
1	2.1205	-62.57	Pk	31.9	-34.8	.4	11.8	-53.27	-13	-40.27	0-360	300	H
5	3.0349	-62.54	Pk	32.9	-33.8	.6	11.8	-51.04	-13	-38.04	0-360	201	V
2	4.7908	-63.12	Pk	33.9	-32.3	.3	11.8	-49.42	-13	-36.42	0-360	300	H
3	9.0703	-64.49	Pk	36	-28.8	.7	11.8	-44.79	-13	-31.79	0-360	101	H
6	9.6157	-65.34	Pk	36.6	-28.3	.9	11.8	-44.34	-13	-31.34	0-360	201	V

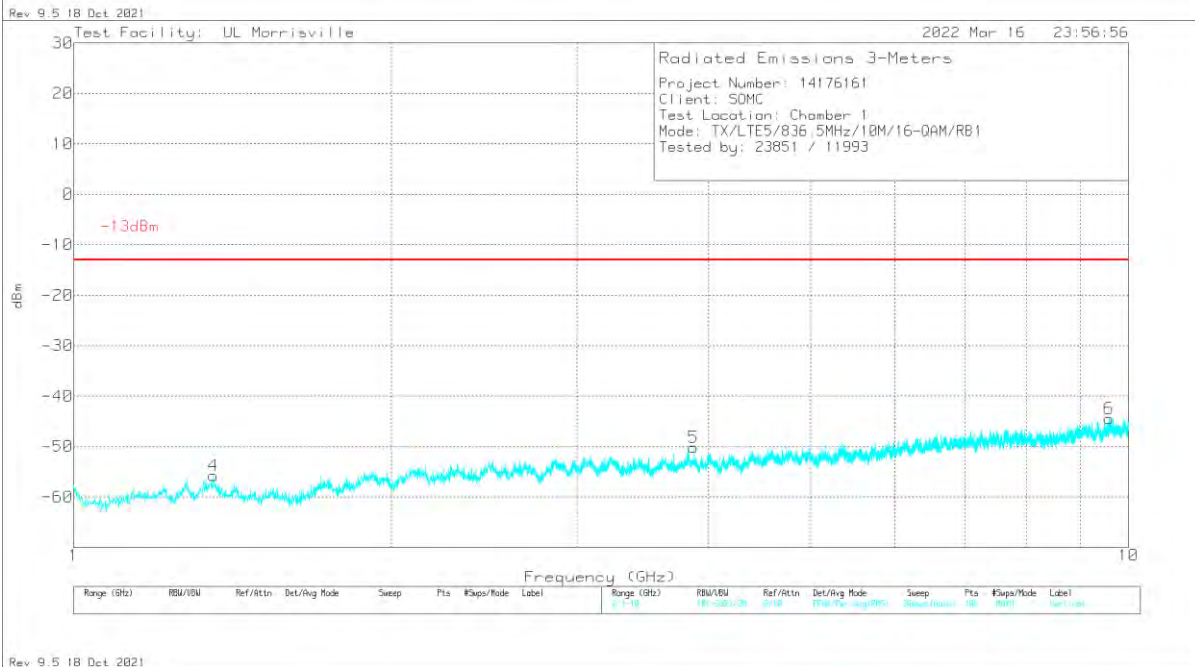
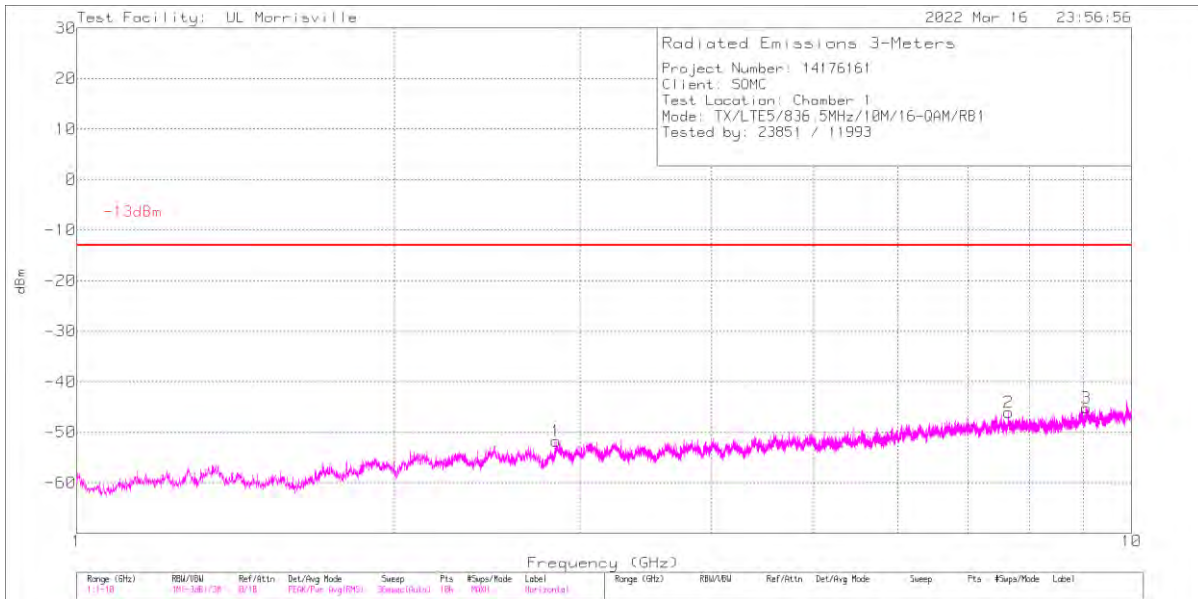
Pk - Peak detector

**16QAM LTE5 (10MHz)**



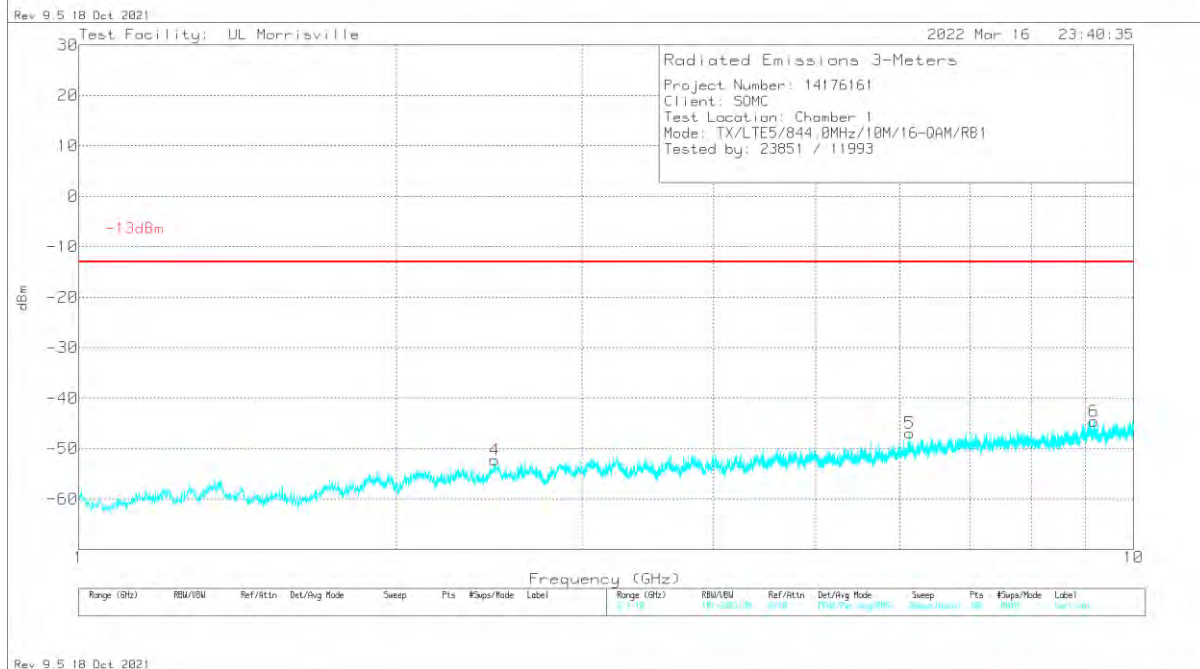
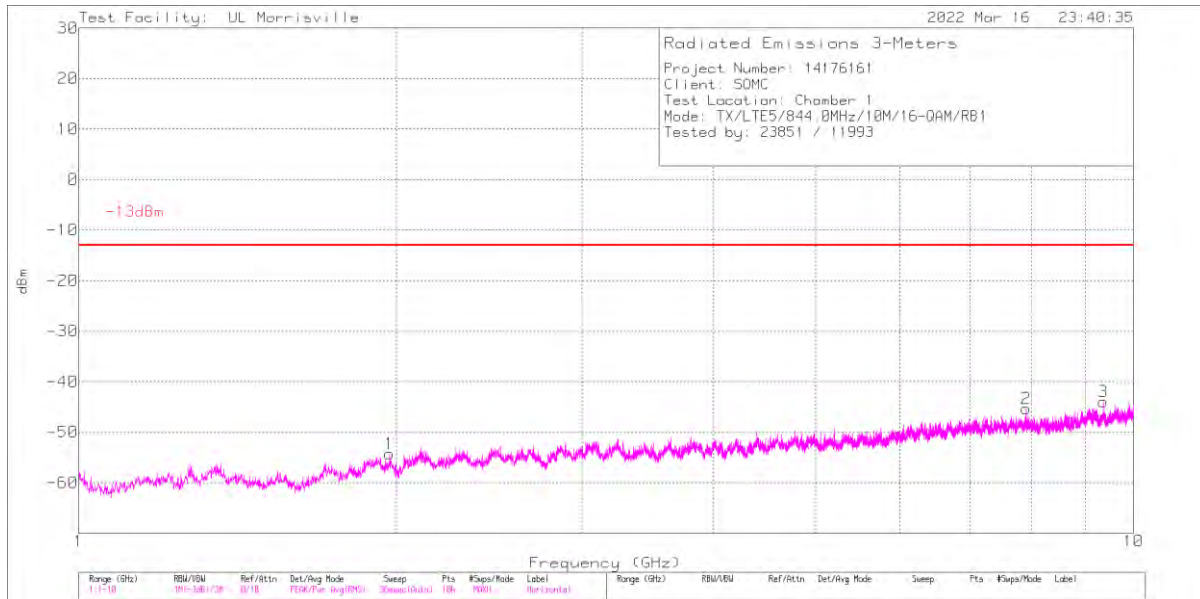
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.1556	-62.93	Pk	32	-34.4	.4	11.8	-53.13	-13	-40.13	0-360	300	H
4	2.4913	-63.34	Pk	32.3	-34.1	.4	11.8	-52.94	-13	-39.94	0-360	101	V
5	4.3894	-63.2	Pk	33.6	-32.2	.4	11.8	-49.6	-13	-36.6	0-360	300	V
2	6.6556	-63.71	Pk	35.5	-31.1	.6	11.8	-46.91	-13	-33.91	0-360	101	H
3	8.2369	-65.04	Pk	35.7	-28.8	.4	11.8	-45.94	-13	-32.94	0-360	300	H
6	9.3601	-65.68	Pk	36.3	-27.8	.8	11.8	-44.58	-13	-31.58	0-360	101	V

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.3573	-61.37	Pk	29.6	-36.6	.8	11.8	-55.77	-13	-42.77	0-360	101	V
1	2.8459	-62.83	Pk	32.5	-33.7	.5	11.8	-51.73	-13	-38.73	0-360	200	H
5	3.8683	-63.2	Pk	33.4	-32.7	.5	11.8	-50.2	-13	-37.2	0-360	300	V
2	7.651	-64.92	Pk	35.7	-29.2	.5	11.8	-46.12	-13	-33.12	0-360	101	H
3	9.0649	-64.85	Pk	36	-28.9	.7	11.8	-45.25	-13	-32.25	0-360	299	H
6	9.5878	-64.55	Pk	36.5	-28.9	.7	11.8	-44.45	-13	-31.45	0-360	300	V

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.9711	-62.52	Pk	31.2	-35	.3	11.8	-54.22	-13	-41.22	0-360	200	H
4	2.4814	-62.71	Pk	32.3	-34.1	.4	11.8	-52.31	-13	-39.31	0-360	300	V
5	6.1363	-62.7	Pk	35.4	-32.2	.7	11.8	-47	-13	-34	0-360	101	V
2	7.9084	-64.38	Pk	35.7	-28.9	.5	11.8	-45.28	-13	-32.28	0-360	101	H
6	9.1774	-64.43	Pk	36.1	-28.7	.6	11.8	-44.63	-13	-31.63	0-360	200	V
3	9.3592	-65.01	Pk	36.3	-27.8	.8	11.8	-43.91	-13	-30.91	0-360	300	H

Pk - Peak detector

### 11.1.9. LTE13

#### LIMITS

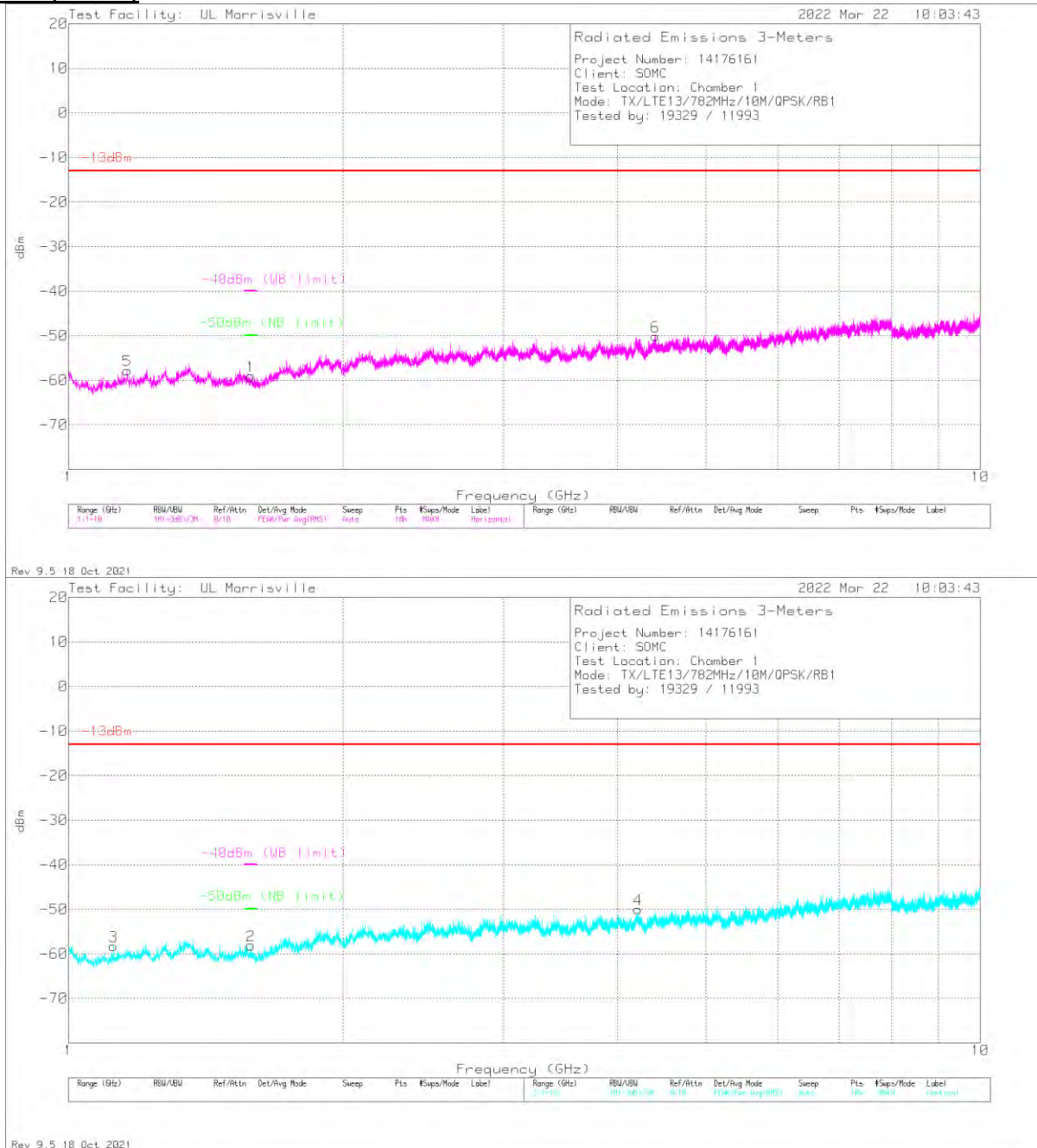
FCC: §27.53

(c) 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.

(f) Emissions in the band 1559-1610 MHz shall be limited to  $-70$  dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and  $-80$  dBW EIRP for discrete emissions of less than 700 Hz bandwidth.



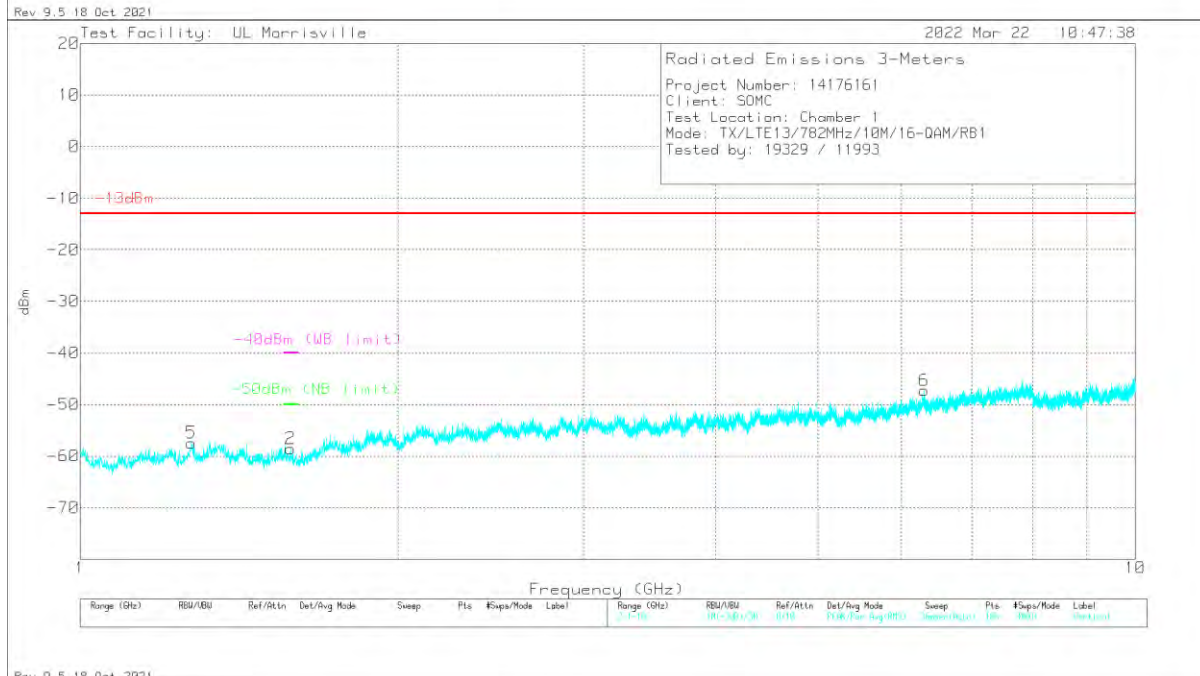
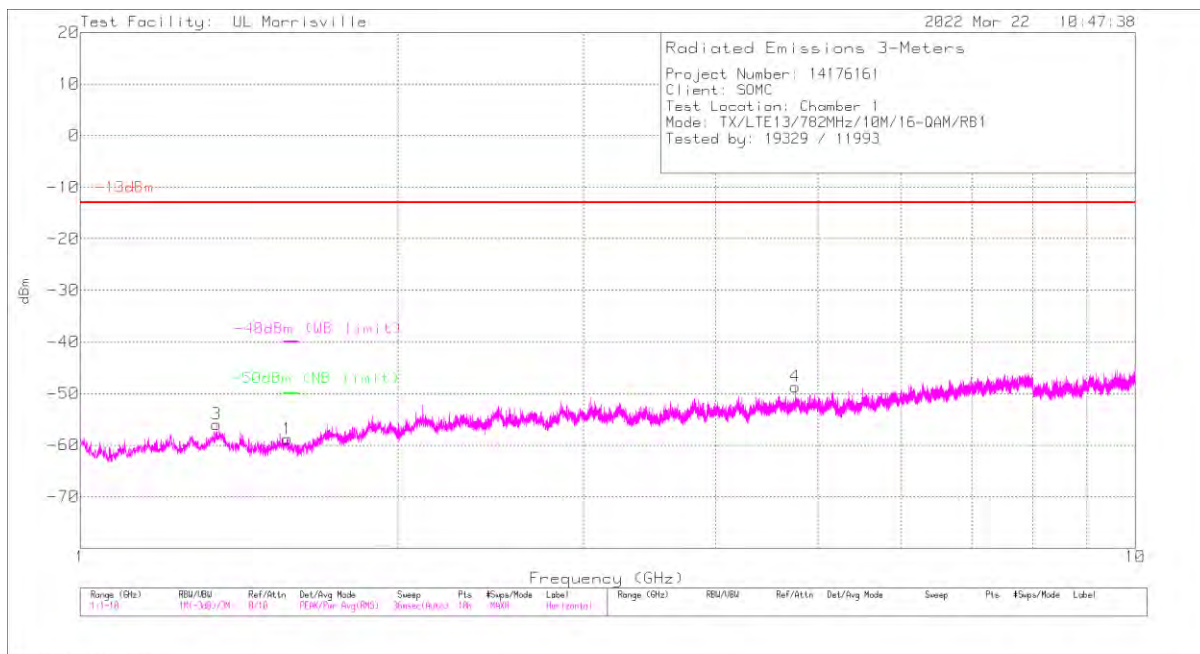
**QPSK LTE13 (10MHz)**



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/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
3	1.12049	-61.24	Pk	27.5	-37.1	.8	11.8	-58.24	-13	-45.24	-	-	0-360	101	V
5	1.15999	-60.85	Pk	27.5	-36.9	.7	11.8	-57.75	-13	-44.75	-	-	0-360	300	H
1	1.58497	-63.86	Pk	28.2	-35.8	.6	11.8	-59.06	-13	-46.06	-40	-19.06	0-360	200	H
2	1.58497	-62.89	Pk	28.2	-35.8	.6	11.8	-58.09	-13	-45.09	-40	-18.09	0-360	101	V
4	4.21332	-63.07	Pk	33.3	-32.6	.6	11.8	-49.97	-13	-36.97	-	-	0-360	300	V
6	4.40231	-63.4	Pk	33.6	-32.3	.2	11.8	-50.1	-13	-37.1	-	-	0-360	101	H

Pk - Peak detector

**16QAM LTE13 (10MHz)**



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/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
5	1.27498	-62.94	Pk	29.6	-36.4	.5	11.8	-57.44	-13	-44.44	-	-	-	-	0-360	300	V
3	1.34698	-61.26	Pk	29.5	-36.5	.5	11.8	-55.96	-13	-42.96	-	-	-	-	0-360	101	H
1	1.57097	-63.34	Pk	28.2	-36.1	.6	11.8	-58.84	-13	-45.84	-40	-18.84	-50	-8.84	0-360	101	H
2	1.58197	-63.13	Pk	28.2	-36	.6	11.8	-58.53	-13	-45.53	-40	-18.53	-50	-8.53	0-360	200	V
4	4.76129	-62.35	Pk	33.9	-32.4	.4	11.8	-48.65	-13	-35.65	-	-	-	-	0-360	101	H
6	6.3037	-63.86	Pk	35.4	-30.9	.3	11.8	-47.26	-13	-34.26	-	-	-	-	0-360	300	V

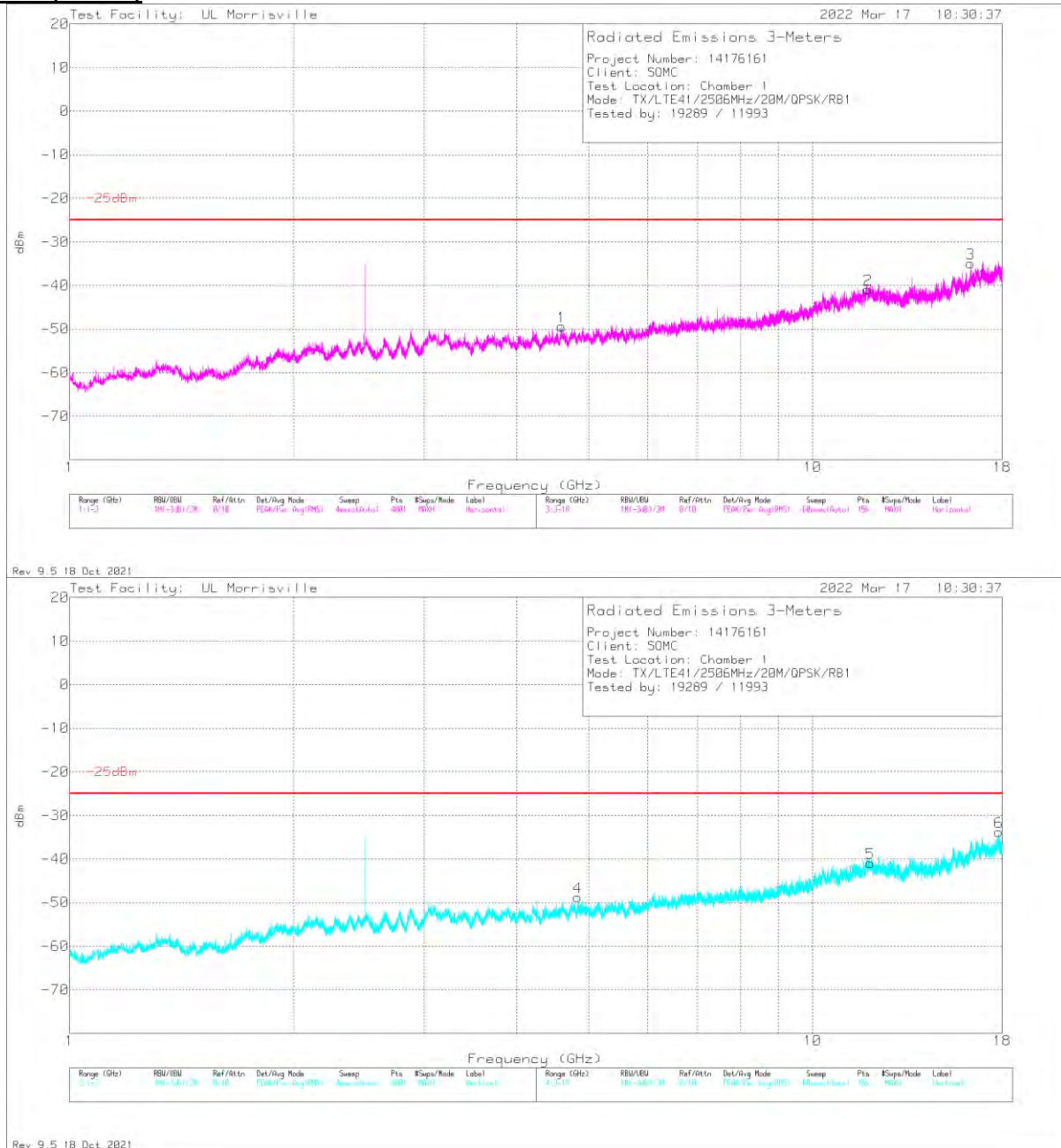
Pk - Peak detector

### 11.1.10. LTE41

FCC: §27.53 (m)

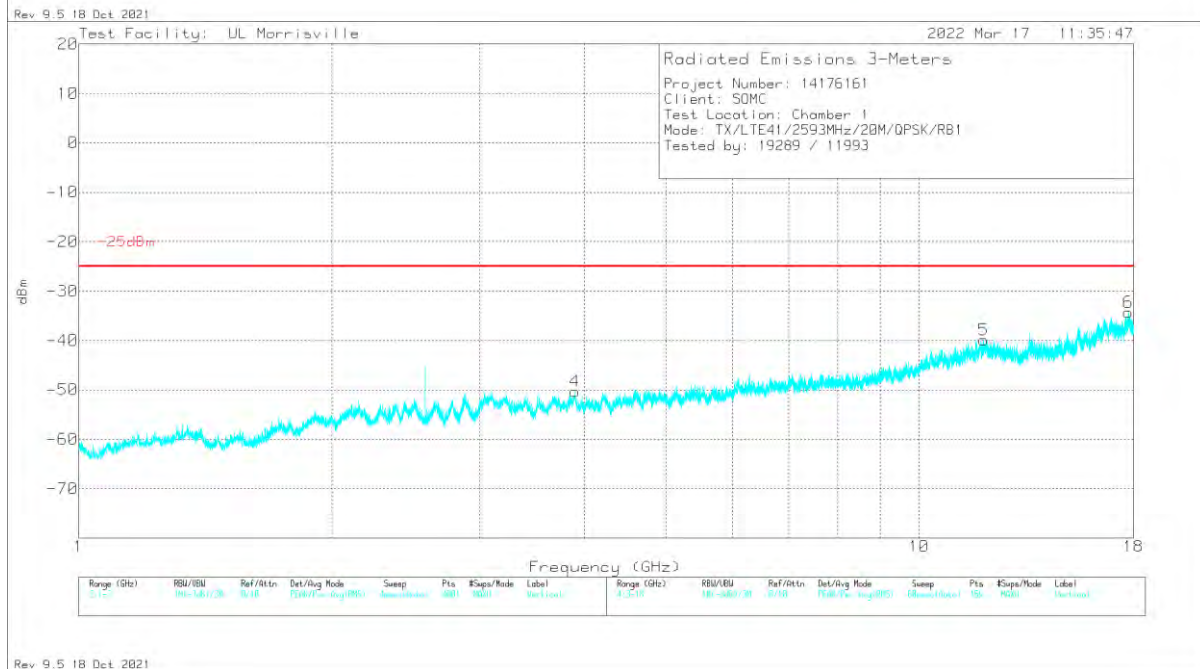
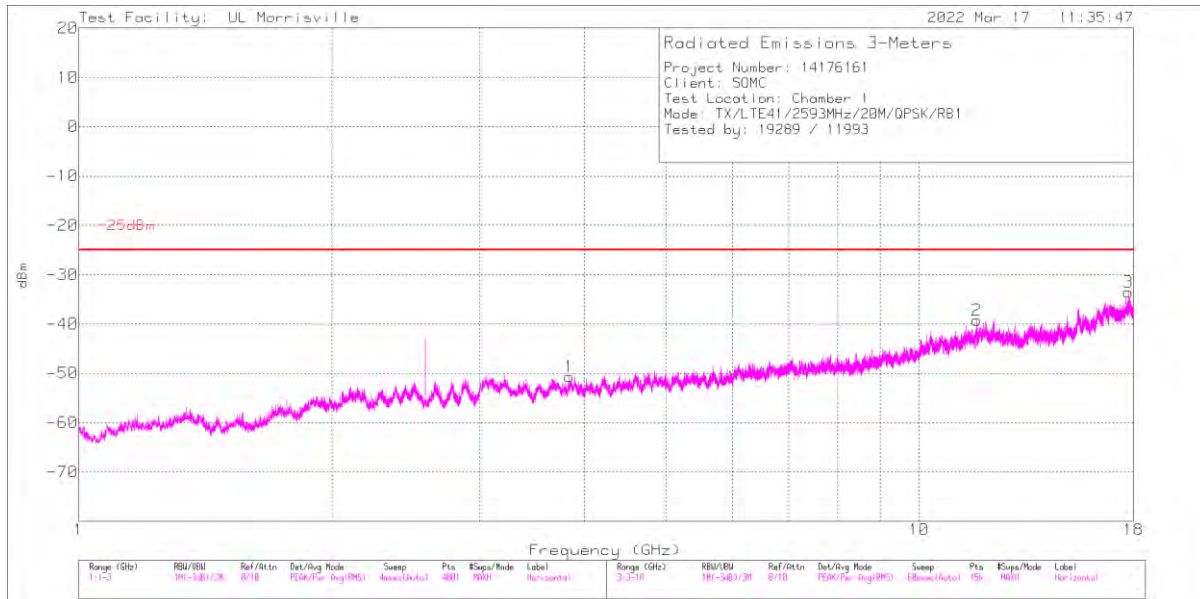
At least  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section.

**QPSK LTE41 (20MHz)**



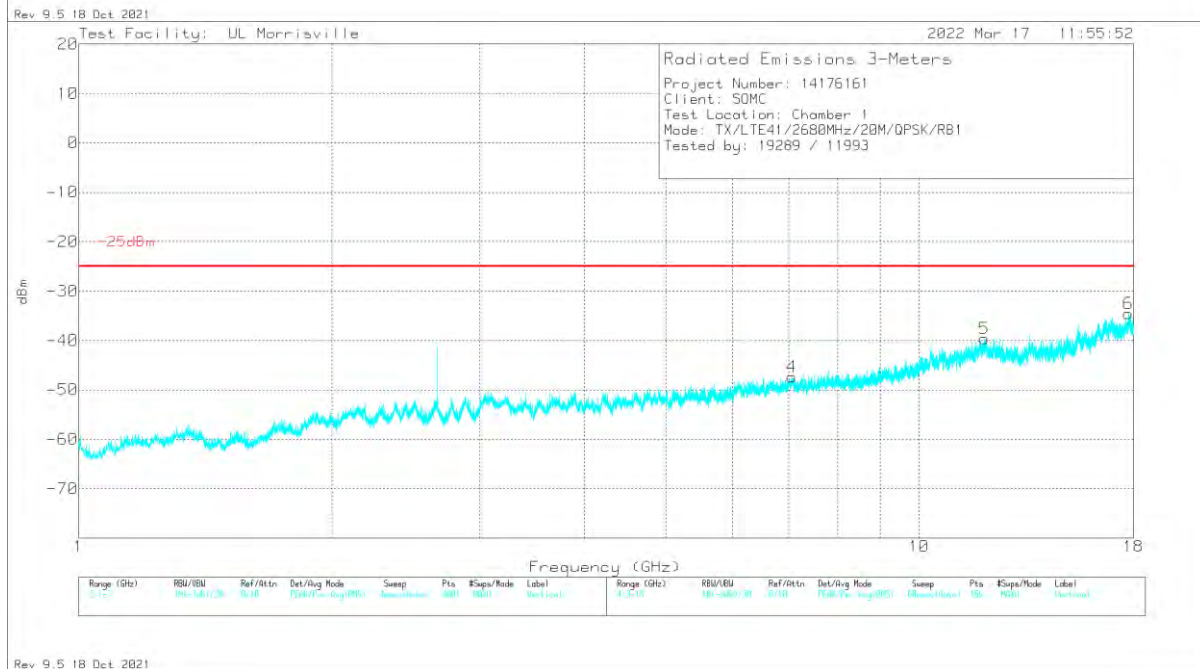
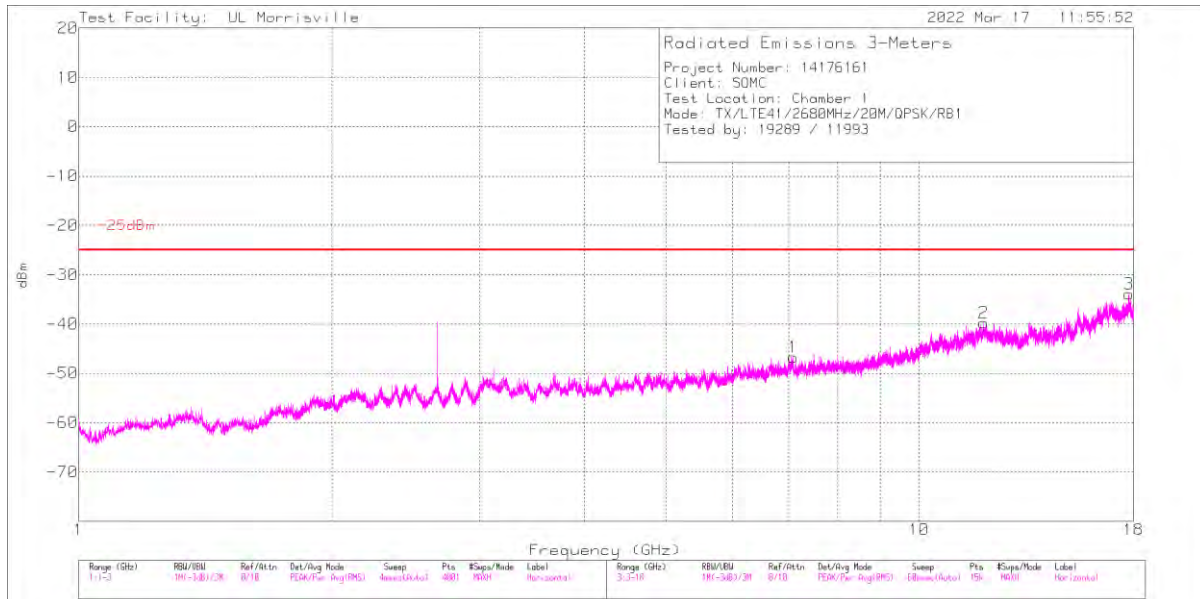
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.596	-64.11	Pk	33.9	-31.6	11.8	.6	-49.41	-25	-24.41	0-360	200	H
4	4.831	-63.95	Pk	34	-31	11.8	.4	-48.75	-25	-23.75	0-360	300	V
2	11.871	-65.7	Pk	38.6	-26.3	11.8	.7	-40.9	-25	-15.9	0-360	101	H
5	11.956	-66.7	Pk	38.7	-25.4	11.8	.7	-40.9	-25	-15.9	0-360	101	V
3	16.315	-65.11	Pk	40.8	-23.4	11.8	1	-34.91	-25	-9.91	0-360	200	H
6	17.818	-66.43	Pk	41.6	-21.7	11.8	1	-33.73	-25	-8.73	0-360	101	V

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.836	-64.1	Pk	33.3	-32.2	11.8	.5	-50.7	-25	-25.7	0-360	199	H
4	3.898	-64.96	Pk	33.3	-31	11.8	.6	-50.26	-25	-25.26	0-360	300	V
2	11.717	-65.38	Pk	38.5	-24.9	11.8	.7	-39.28	-25	-14.28	0-360	101	H
5	11.94	-65.75	Pk	38.7	-25.2	11.8	.6	-39.85	-25	-14.85	0-360	300	V
3	17.754	-65.08	Pk	41.6	-22.8	11.8	1	-33.48	-25	-8.48	0-360	300	H
6	17.759	-66.17	Pk	41.6	-22.5	11.8	1	-34.27	-25	-9.27	0-360	101	V

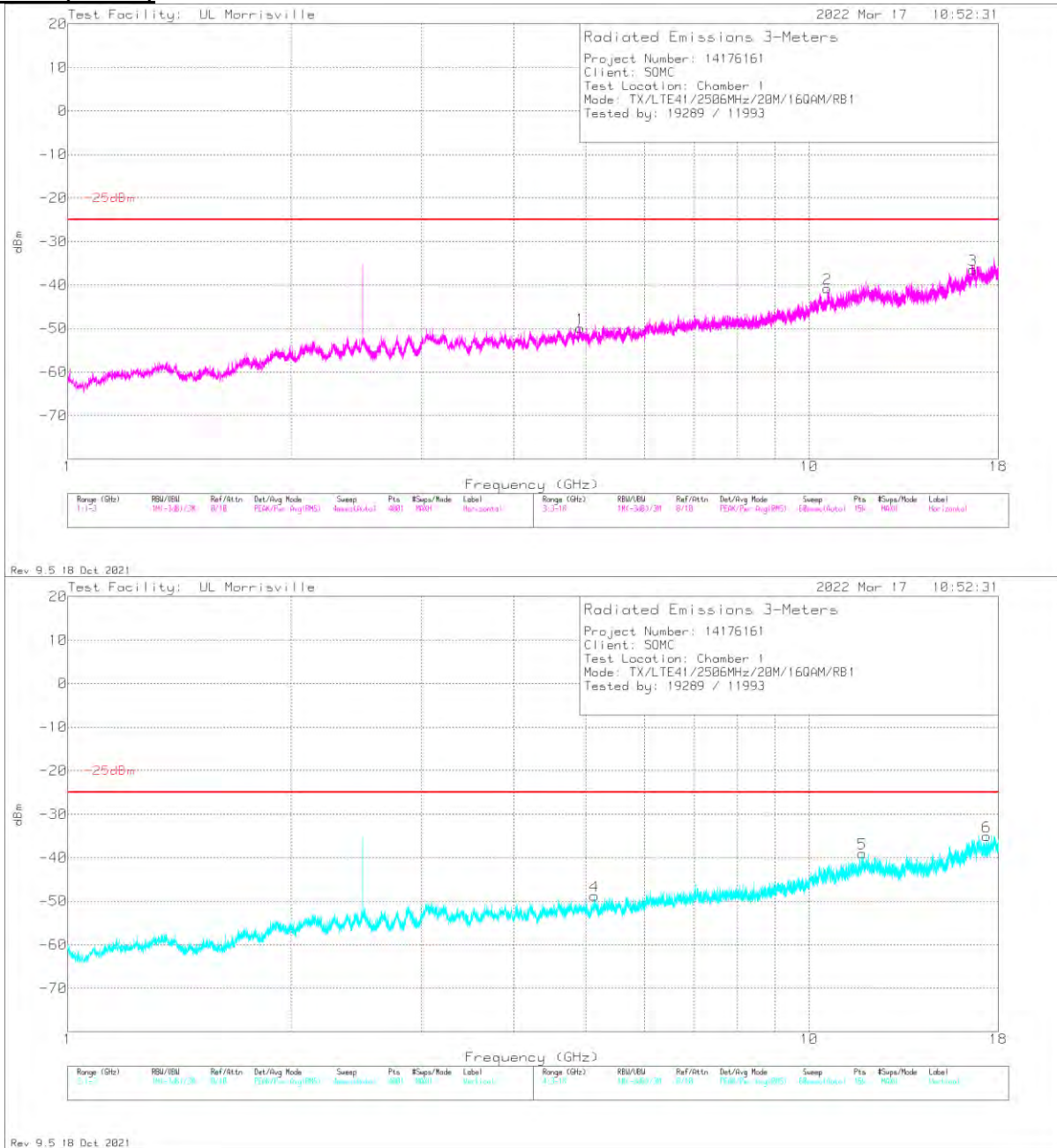
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	7.059	-66.62	Pk	35.6	-28.5	11.8	.4	-47.32	-25	-22.32	0-360	101	V
1	7.081	-65.59	Pk	35.6	-28.9	11.8	.4	-46.69	-25	-21.69	0-360	101	H
2	11.937	-65.42	Pk	38.7	-25.4	11.8	.6	-39.72	-25	-14.72	0-360	101	H
5	11.95	-65.31	Pk	38.7	-25.5	11.8	.7	-39.61	-25	-14.61	0-360	201	V
6	17.767	-66.29	Pk	41.6	-22.6	11.8	1	-34.49	-25	-9.49	0-360	201	V
3	17.777	-66.1	Pk	41.6	-22.3	11.8	1.1	-33.9	-25	-8.9	0-360	199	H

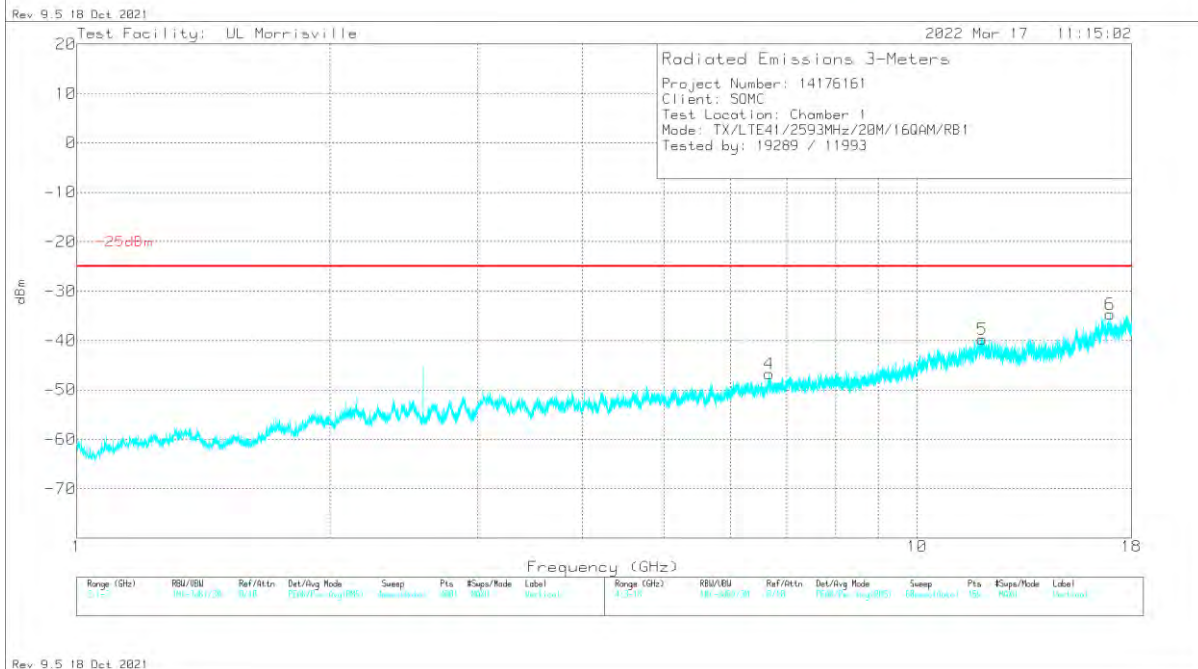
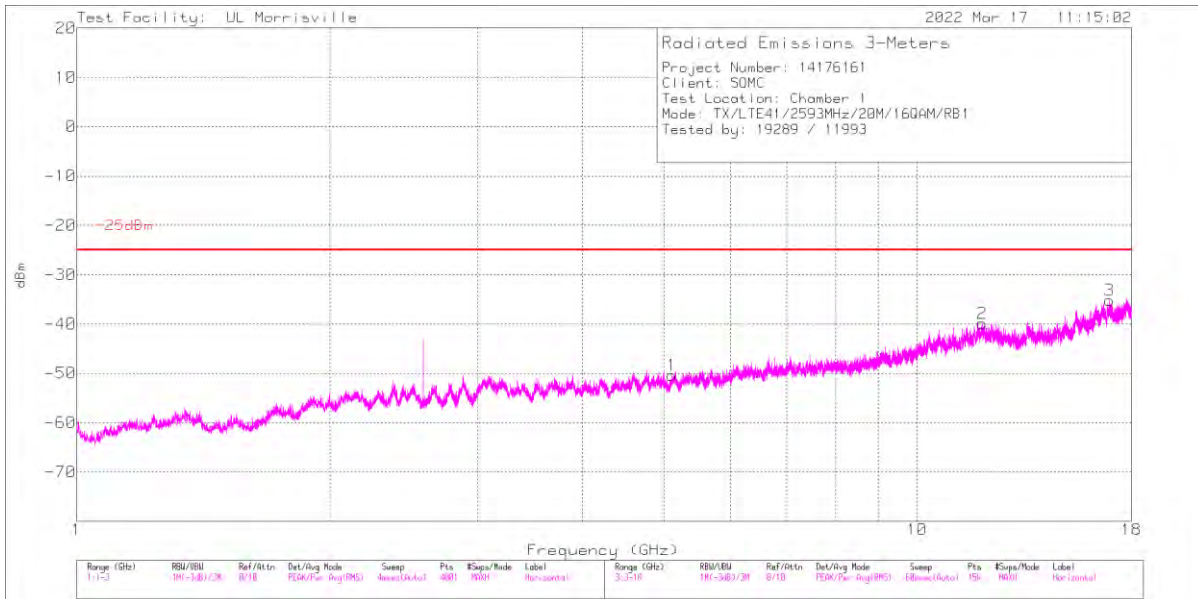
Pk - Peak detector

**16QAM LTE41 (20MHz)**



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.916	-64.84	Pk	33.9	-31.7	11.8	.9	-49.94	-25	-24.94	0-360	300	H
4	5.133	-63.86	Pk	34	-31.4	11.8	.7	-48.76	-25	-23.76	0-360	300	V
2	10.583	-65.33	Pk	37.6	-25.7	11.8	.9	-40.73	-25	-15.73	0-360	300	H
5	11.803	-64.74	Pk	38.6	-25.4	11.8	.7	-39.04	-25	-14.04	0-360	200	V
3	16.624	-66.61	Pk	41.2	-23.6	11.8	.8	-36.41	-25	-11.41	0-360	200	H
6	17.358	-65.65	Pk	41	-23.3	11.8	1.1	-35.05	-25	-10.05	0-360	200	V

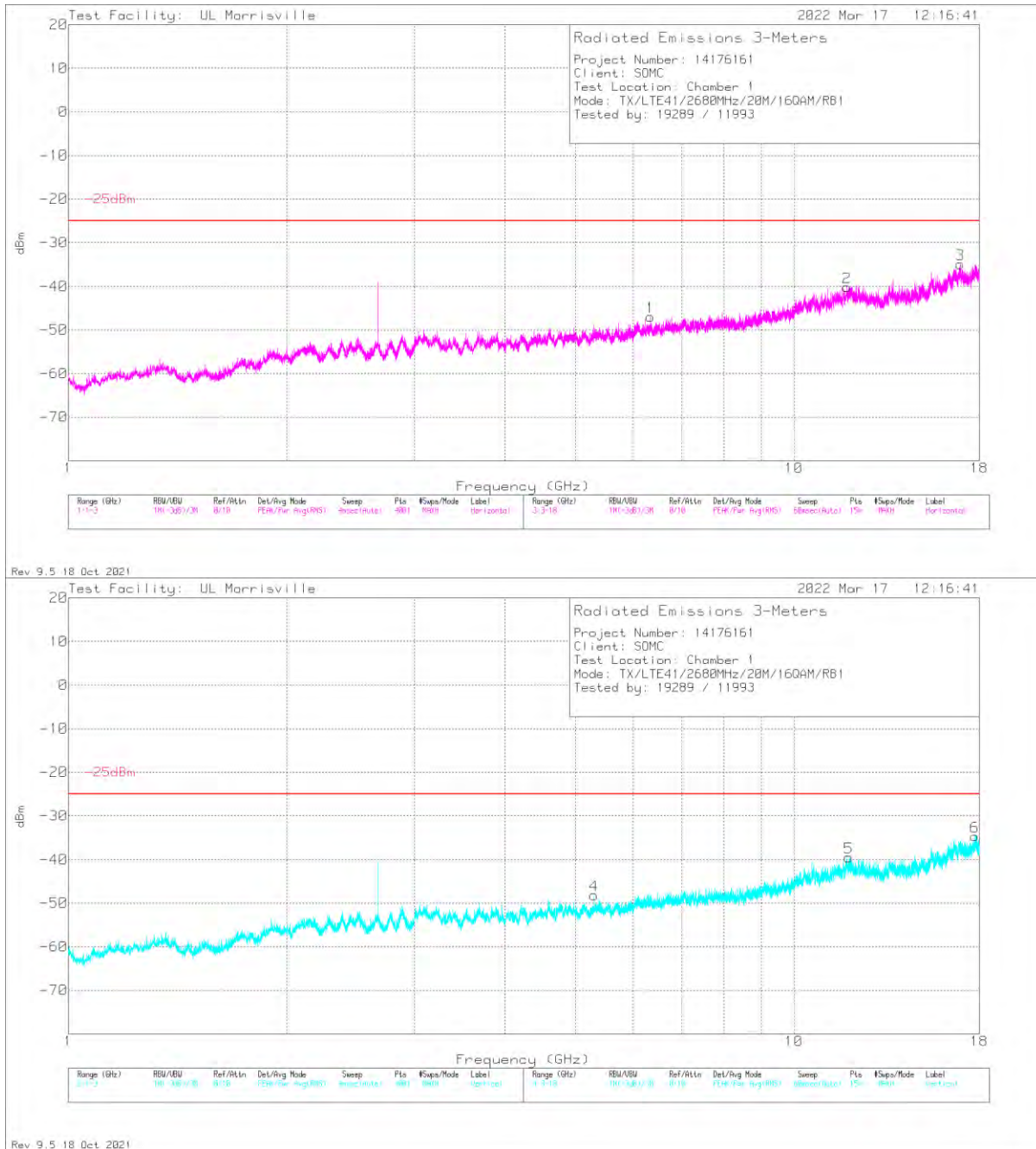
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.114	-65.76	Pk	34	-31	11.8	.5	-50.46	-25	-25.46	0-360	299	H
4	6.666	-64.68	Pk	35.5	-29.7	11.8	.4	-46.68	-25	-21.68	0-360	101	V
5	11.952	-65.42	Pk	38.7	-25.5	11.8	.7	-39.72	-25	-14.72	0-360	299	V
2	11.953	-65.54	Pk	38.7	-25.5	11.8	.7	-39.84	-25	-14.84	0-360	200	H
3	16.947	-66.86	Pk	41.4	-22.4	11.8	.9	-35.16	-25	-10.16	0-360	101	H
6	16.968	-65.73	Pk	41.4	-23.1	11.8	1	-34.63	-25	-9.63	0-360	200	V

Pk - Peak detector





Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	5.299	-63.49	Pk	34.2	-31.6	11.8	.9	-48.19	-25	-23.19	0-360	199	V
1	6.343	-65.4	Pk	35.5	-29.3	11.8	.4	-47	-25	-22	0-360	200	H
2	11.822	-66.39	Pk	38.6	-25	11.8	.8	-40.19	-25	-15.19	0-360	101	H
5	11.896	-64.73	Pk	38.6	-25.8	11.8	.6	-39.53	-25	-14.53	0-360	300	V
3	16.946	-66.62	Pk	41.4	-22.4	11.8	.9	-34.92	-25	-9.92	0-360	200	H
6	17.759	-66.61	Pk	41.6	-22.5	11.8	1	-34.71	-25	-9.71	0-360	101	V

Pk - Peak detector

## 11.2. 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

### 11.2.1. Worst-Case Emissions for 2G

#### GSM 850 GPRS Mode

#### Spurious below 30MHz

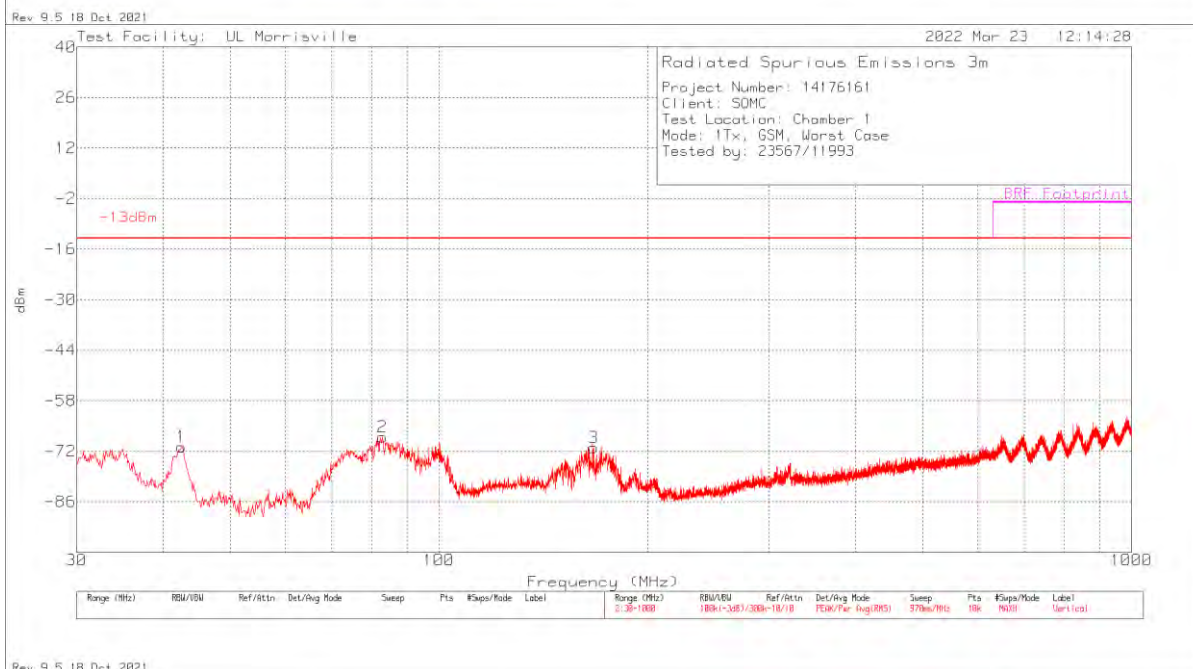
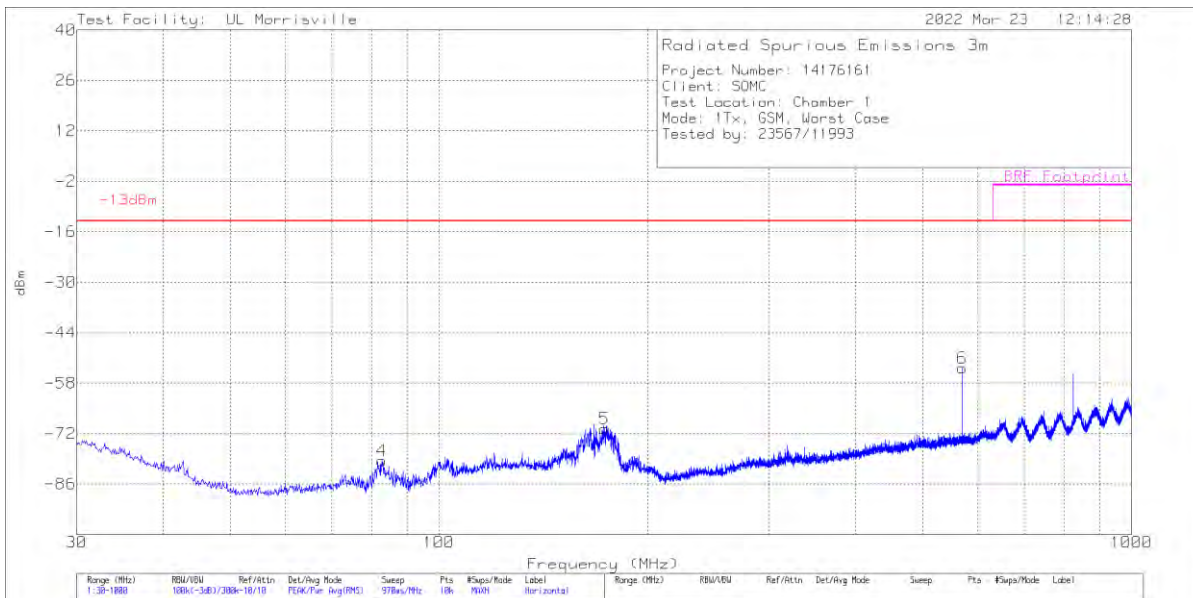


#### Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0037 (dB/m)	Amp/Cbl/Pad (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Loop Angle
1	.00928	-81.42	Pk	61.1	-31.5	11.8	-40.02	-13	-27.02	0-360	0 degs
7	.01312	-88.07	Pk	60	-31.6	11.8	-47.87	-13	-34.87	0-360	Flat
4	.01447	-88.13	Pk	59.8	-31.7	11.8	-48.23	-13	-35.23	0-360	90 degs
2	.52882	-62.81	Pk	56.1	-32.5	11.8	-27.41	-13	-14.41	0-360	0 degs
8	.55352	-60.79	Pk	56.1	-32.5	11.8	-25.39	-13	-12.39	0-360	Flat
5	.65371	-67.69	Pk	56.1	-32.5	11.8	-32.29	-13	-19.29	0-360	90 degs
6	1.31356	-82.57	Pk	45.2	-32.4	11.8	-57.97	-13	-44.97	0-360	90 degs
3	13.557	-85.38	Pk	33.9	-31.8	11.8	-71.48	-13	-58.48	0-360	0 degs
9	13.56063	-88.8	Pk	33.9	-31.8	11.8	-74.9	-13	-61.9	0-360	Flat

Pk - Peak detector

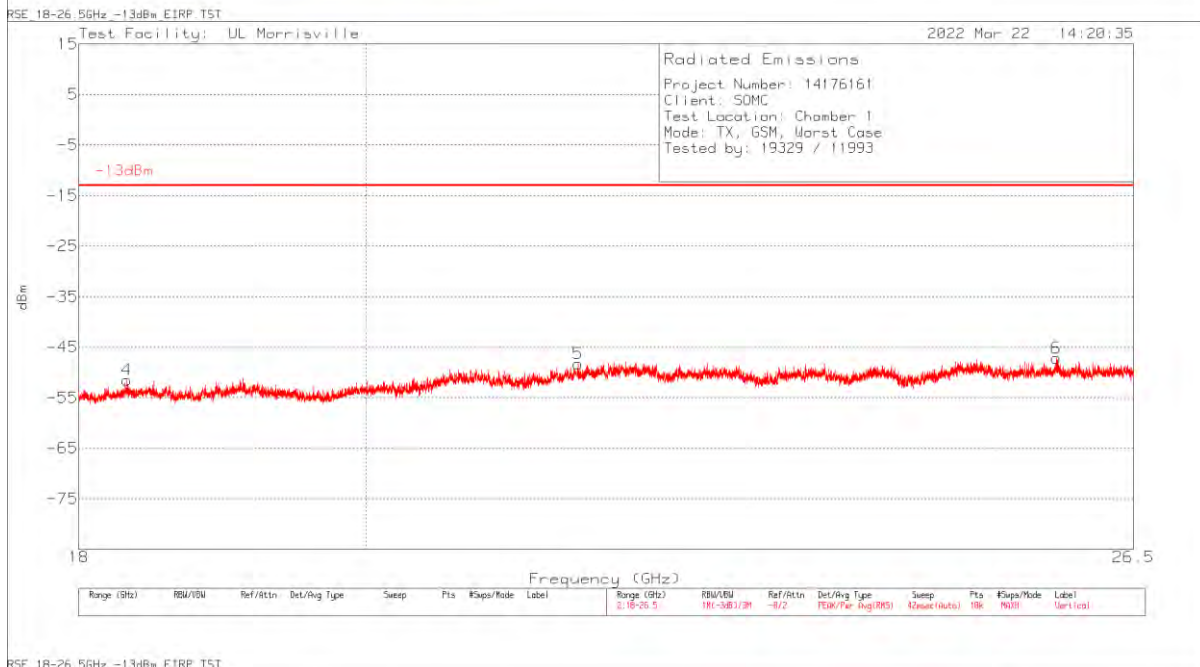
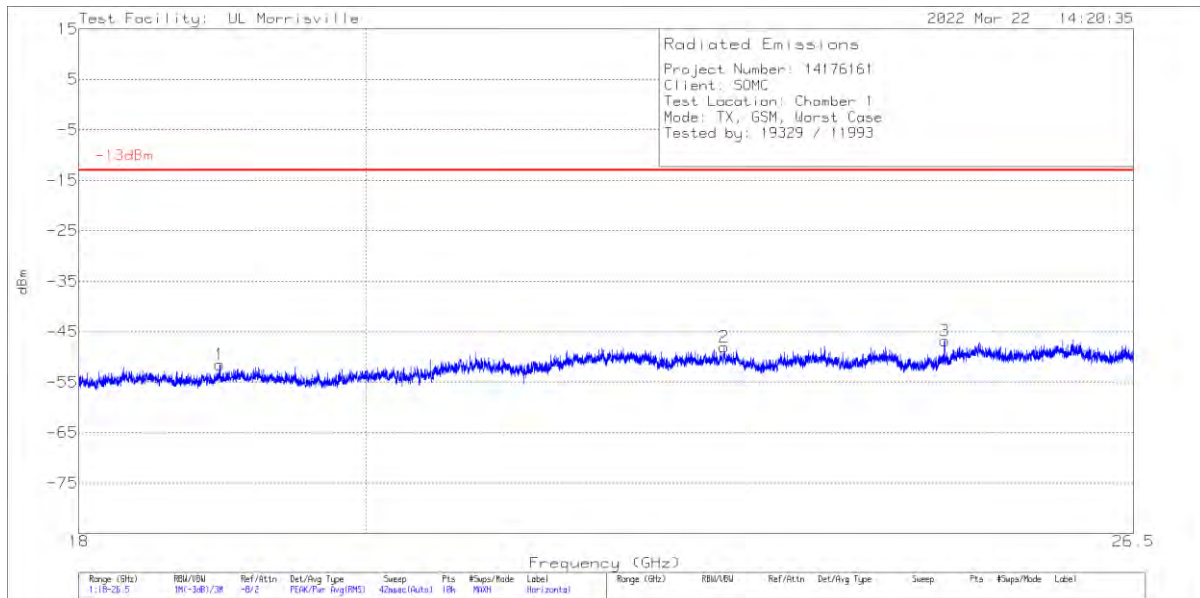
### Spurious below 1GHz



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0066 (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
1	42.513	-67.4	Pk	18	-31.3	.1	9.7	-70.9	-13	-57.9	-	-	0-360	100	V
4	82.671	-71.91	Pk	13.2	-30.7	.2	9.7	-79.51	-13	-66.51	-	-	0-360	399	H
2	82.865	-60.39	Pk	13.2	-30.7	.2	9.7	-67.99	-13	-54.99	-	-	0-360	100	V
3	167.352	-69.2	Pk	17.6	-29.7	.5	9.7	-71.1	-13	-58.1	-	-	0-360	100	V
5	173.269	-68.63	Pk	17.4	-29.6	.5	9.7	-70.63	-13	-57.63	-	-	0-360	200	H
6	570.096	-61.76	Pk	24.4	-27	.8	9.7	-53.86	-13	-40.86	-	-	0-360	200	H

Pk - Peak detector

### Spurious 18GHz to 26GHz



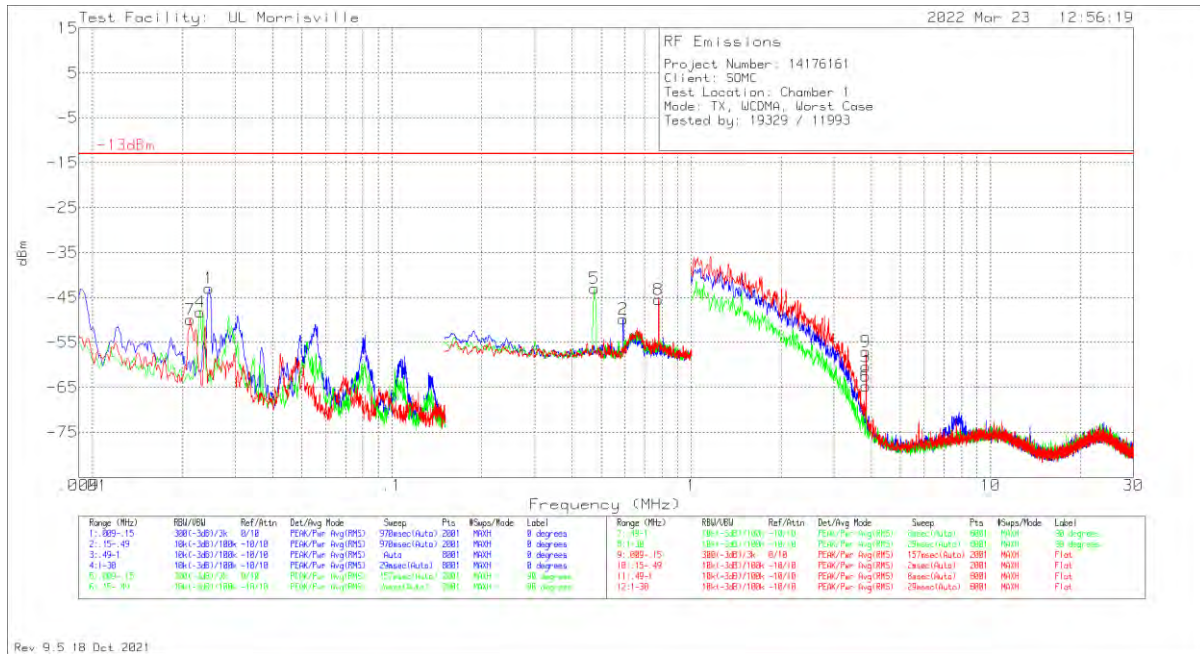
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	ANT (dB/m)	Amp/Cbl (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	18.32212	-57.62	Pk	33.1	-38.8	11.8	-51.52	-13	-38.52	0-360	150	V
1	18.9553	-57.67	Pk	33.3	-38.9	11.8	-51.47	-13	-38.47	0-360	199	H
5	21.61894	-55.88	Pk	35.1	-39.3	11.8	-48.28	-13	-35.28	0-360	250	V
2	22.80627	-56.67	Pk	35.8	-39	11.8	-48.07	-13	-35.07	0-360	250	H
3	24.72793	-55.01	Pk	35.2	-38.8	11.8	-46.81	-13	-33.81	0-360	250	H
6	25.76397	-56.21	Pk	35.2	-38	11.8	-47.21	-13	-34.21	0-360	101	V

Pk - Peak detector

### 11.2.2. Worst-Case Emissions for 3G

#### WCDMA Band V Rel 99 Mode

#### Spurious below 30MHz

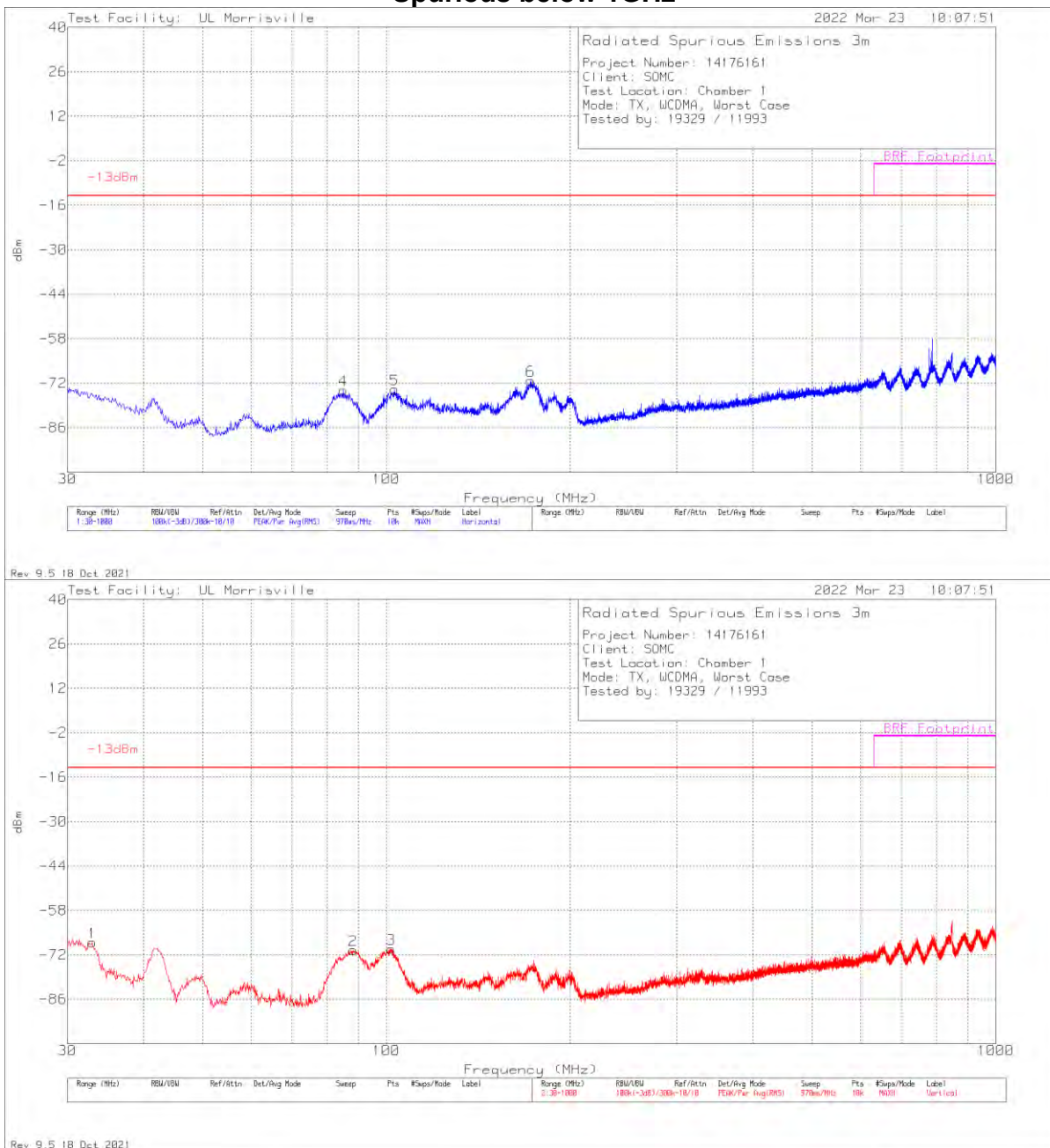


Rev. 9.5 18 Oct. 2021

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0037 (dB/m)	Amp/Cbl/Pad (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Loop Angle
7	.02121	-88.89	Pk	59	-31.9	11.8	-49.99	-13	-36.99	0-360	403	Flat
4	.02292	-86.91	Pk	58.8	-31.9	11.8	-48.21	-13	-35.21	0-360	403	90 degs
1	.02455	-81.49	Pk	58.6	-31.9	11.8	-42.99	-13	-29.99	0-360	403	0 degs
5	.4753	-78.4	Pk	56.1	-32.5	11.8	-43	-13	-30	0-360	403	90 degs
2	.59253	-85.13	Pk	56.1	-32.5	11.8	-49.73	-13	-36.73	0-360	403	0 degs
8	.77848	-81.11	Pk	56.2	-32.4	11.8	-45.51	-13	-32.51	0-360	403	Flat
3	3.83838	-77.17	Pk	37.2	-32.2	11.8	-60.37	-13	-47.37	0-360	403	0 degs
6	3.83838	-81.46	Pk	37.2	-32.2	11.8	-64.66	-13	-51.66	0-360	403	90 degs
9	3.83838	-73.89	Pk	37.2	-32.2	11.8	-57.09	-13	-44.09	0-360	403	Flat

Pk - Peak detector

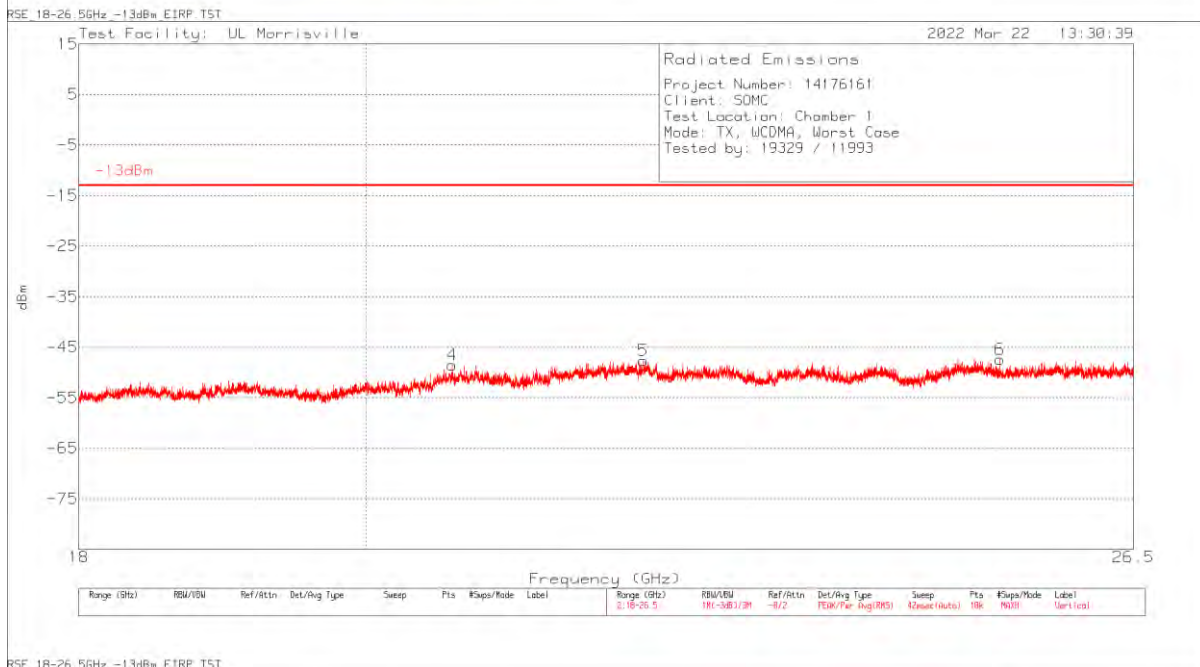
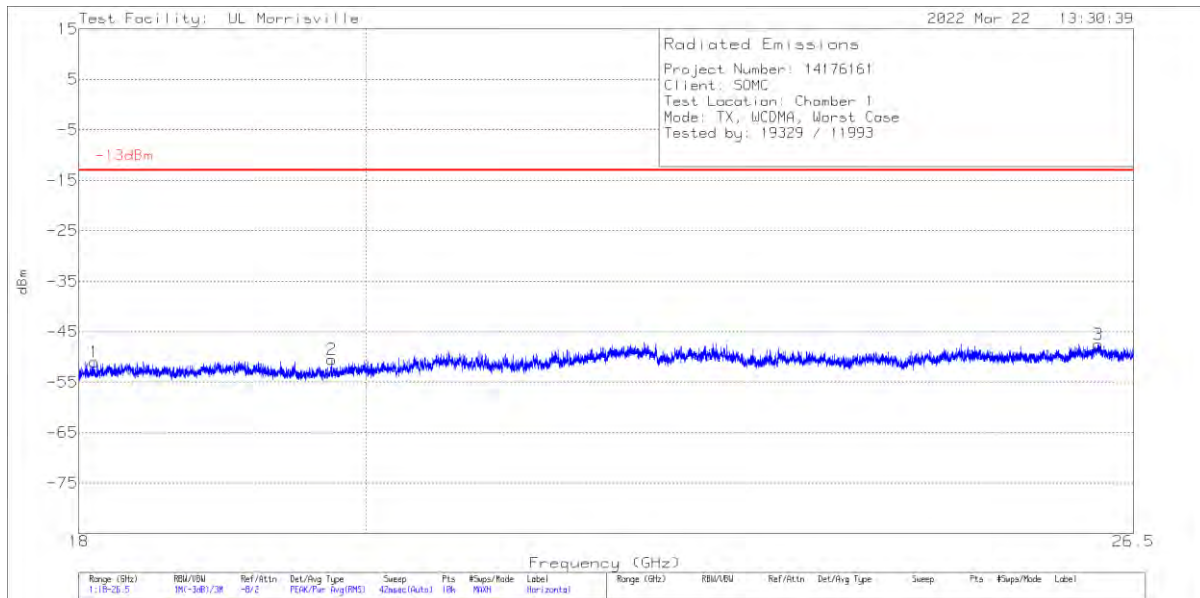
### Spurious below 1GHz



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0066 (dB/m)	Amp/Cbl (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	32.91	-71.83	Pk	25.3	-31.3	.1	9.7	-68.03	-13	-55.03	0-360	100	V
4	84.999	-66.64	Pk	13.2	-30.7	.2	9.7	-74.24	-13	-61.24	0-360	199	H
2	88.2	-63.04	Pk	13.4	-30.8	.2	9.7	-70.54	-13	-57.54	0-360	100	V
3	101.877	-66.53	Pk	16.7	-30.3	.3	9.7	-70.13	-13	-57.13	0-360	100	V
5	103.138	-70.49	Pk	16.9	-30.4	.3	9.7	-73.99	-13	-60.99	0-360	300	H
6	172.687	-69.46	Pk	17.4	-29.4	.5	9.7	-71.26	-13	-58.26	0-360	199	H

Pk - Peak detector

### Spurious 18GHz to 26GHz



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	ANT (dB/m)	Amp/Cbl (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	18.10199	-56.9	Pk	33.1	-39	11.8	-51	-13	-38	0-360	101	H
2	19.75082	-56.73	Pk	33.5	-39.1	11.8	-50.53	-13	-37.53	0-360	149	H
4	20.63984	-55.19	Pk	33.9	-39.1	11.8	-48.59	-13	-35.59	0-360	251	V
5	22.14079	-57.17	Pk	37	-39.3	11.8	-47.67	-13	-34.67	0-360	251	V
6	25.23533	-56.39	Pk	35.2	-38	11.8	-47.39	-13	-34.39	0-360	101	V
3	26.16343	-57.48	Pk	35.4	-37.3	11.8	-47.58	-13	-34.58	0-360	101	H

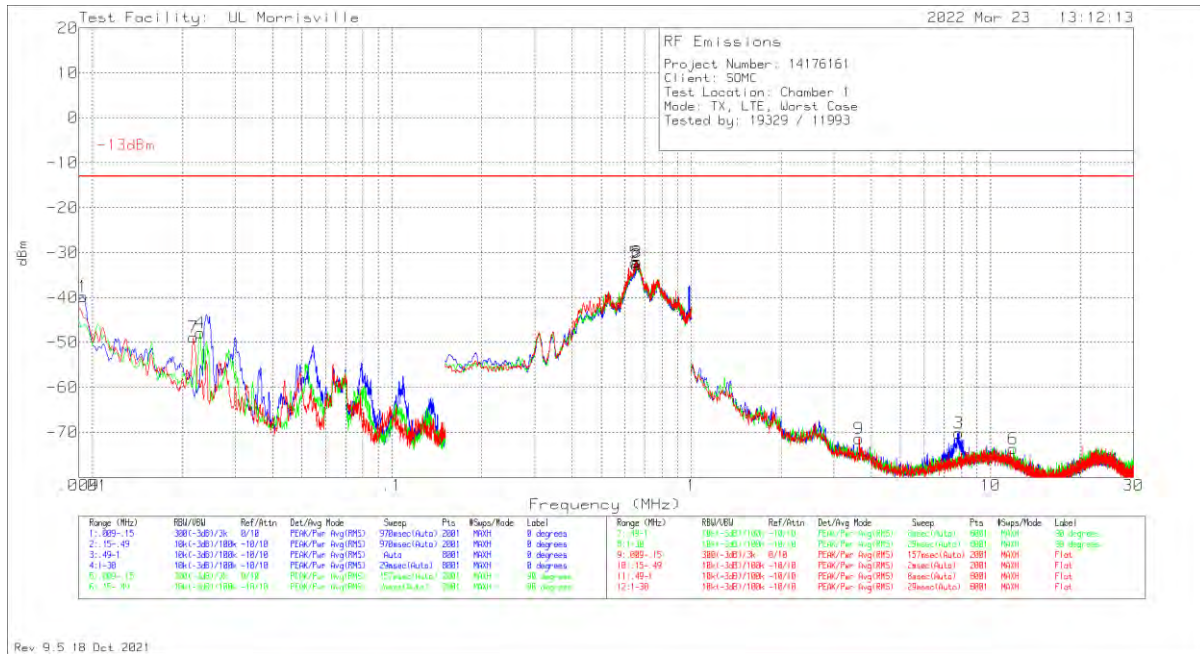
Pk - Peak detector



### 11.2.3. Worst-Case Emissions for 4G

#### LTE Band 13 QPSK Mode

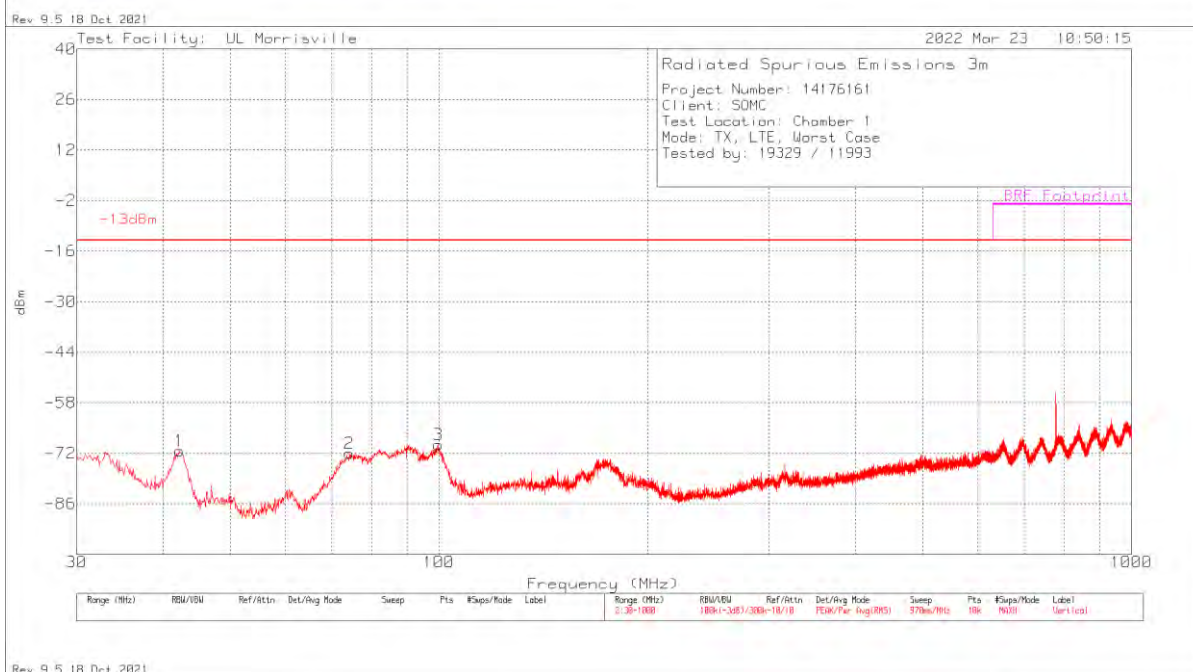
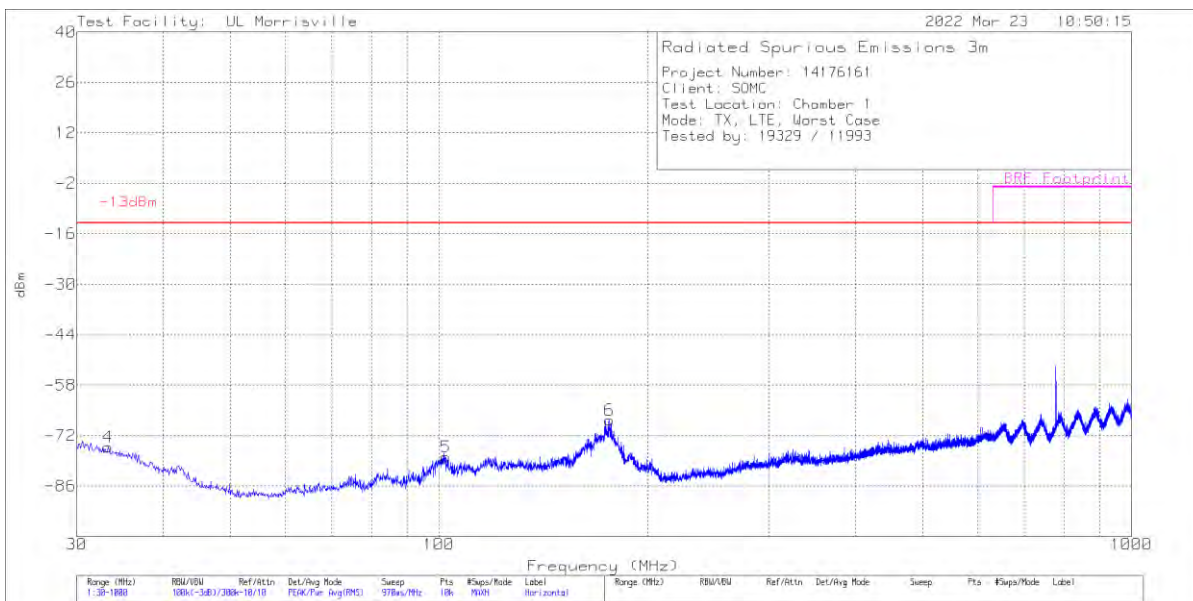
#### Spurious below 30MHz



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0037 (dB/m)	Amp/Cbl/Pad (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Loop Angle
1	.00928	-81.21	Pk	61.1	-31.5	11.8	-39.81	-13	-26.81	0-360	97	0 degs
7	.02178	-87.6	Pk	58.9	-31.9	11.8	-48.8	-13	-35.8	0-360	97	Flat
4	.02292	-86.62	Pk	58.8	-31.9	11.8	-47.92	-13	-34.92	0-360	97	90 degs
5	.64974	-67.64	Pk	56.1	-32.5	11.8	-32.24	-13	-19.24	0-360	97	90 degs
2	.65618	-68.22	Pk	56.1	-32.5	11.8	-32.82	-13	-19.82	0-360	97	0 degs
8	.65794	-67.5	Pk	56.1	-32.5	11.8	-32.1	-13	-19.1	0-360	97	Flat
9	3.639	-88.6	Pk	37.6	-32.2	11.8	-71.4	-13	-58.4	0-360	403	Flat
3	7.80775	-84.38	Pk	34.4	-32	11.8	-70.18	-13	-57.18	0-360	403	0 degs
6	11.91125	-87.81	Pk	34.2	-31.9	11.8	-73.71	-13	-60.71	0-360	403	90 degs

Pk - Peak detector

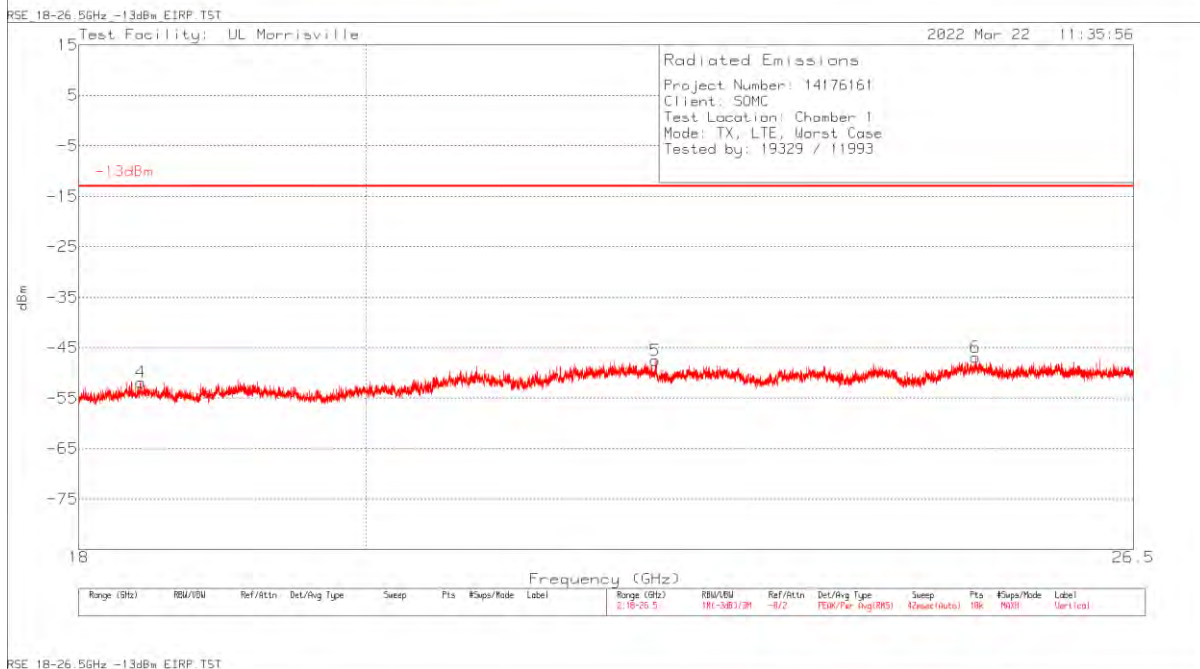
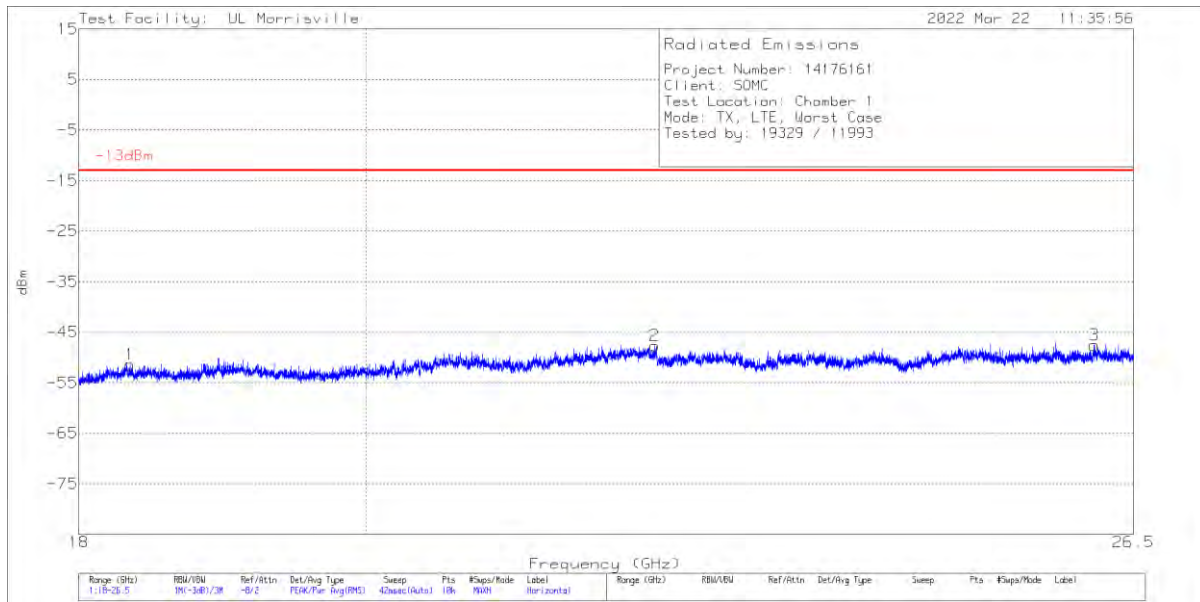
### Spurious below 1GHz



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0066 (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	33.298	-78.58	Pk	25	-31.4	.1	9.7	-75.18	-13	-62.18	-	-	0-360	200	H
1	42.222	-68.02	Pk	18.2	-31.4	.1	9.7	-71.42	-13	-58.42	-	-	0-360	100	V
2	74.232	-65.24	Pk	14.1	-30.7	.1	9.7	-72.04	-13	-59.04	-	-	0-360	100	V
3	99.84	-65.48	Pk	16.2	-30.4	.3	9.7	-69.68	-13	-56.68	-	-	0-360	100	V
5	102.265	-74.43	Pk	16.8	-30.3	.3	9.7	-77.93	-13	-64.93	-	-	0-360	299	H
6	176.179	-65.7	Pk	17.3	-29.6	.5	9.7	-67.8	-13	-54.8	-	-	0-360	299	H

Pk - Peak detector

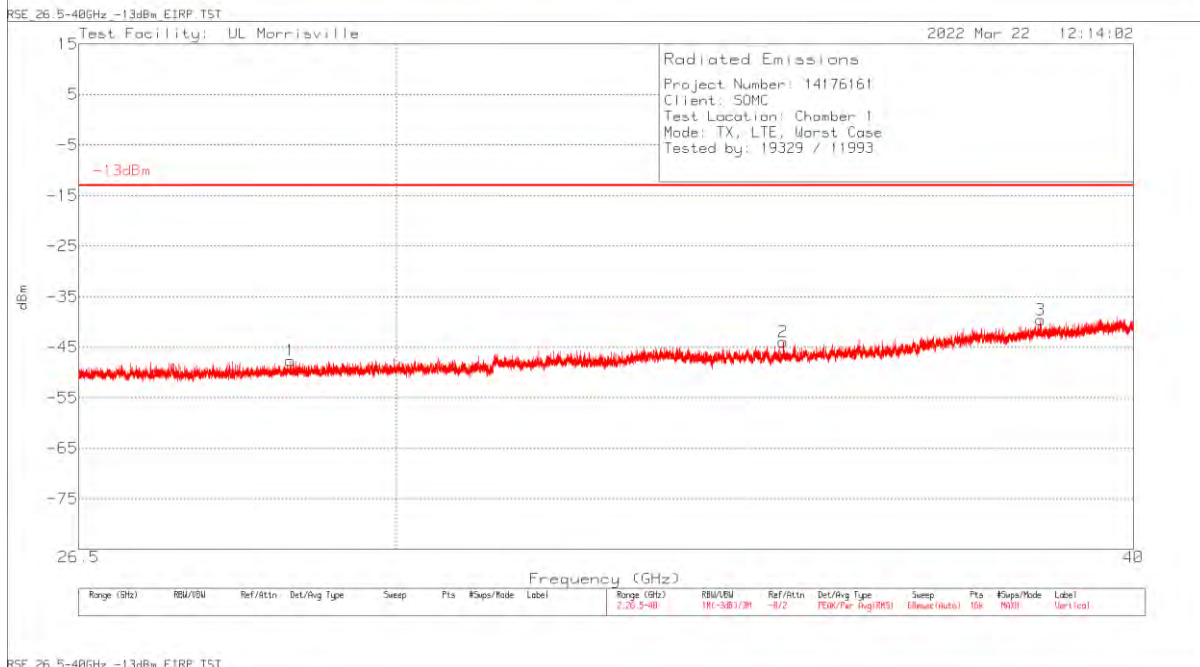
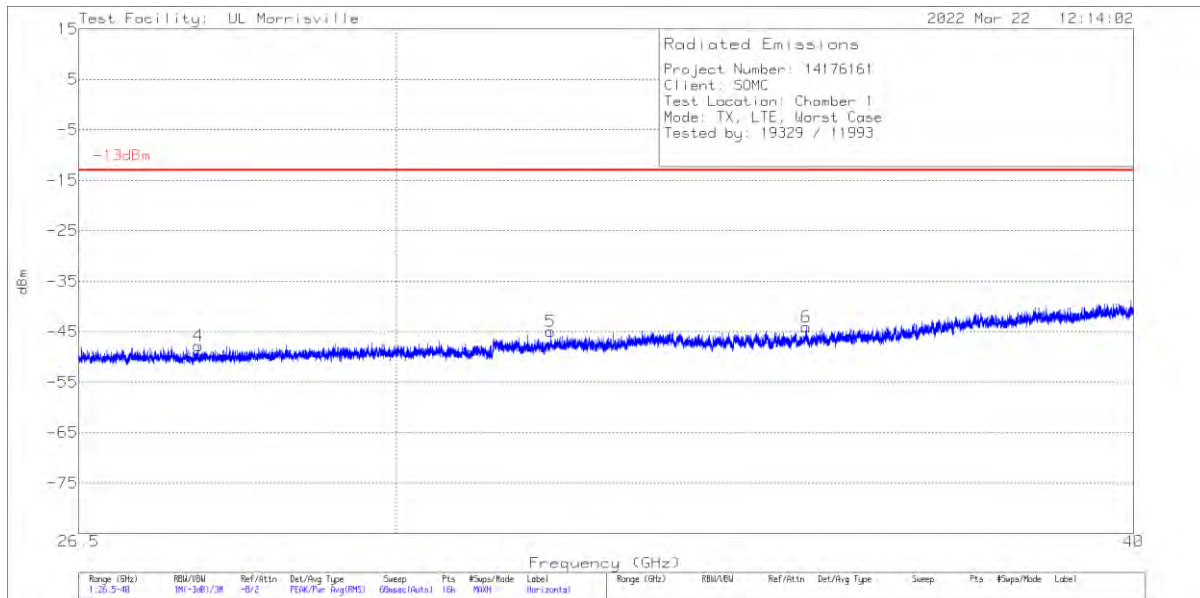
### Spurious 18GHz to 26GHz



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	ANT (dB/m)	Amp/Cbl (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	18.34167	-57.45	Pk	33.1	-38.9	11.8	-51.45	-13	-38.45	0-360	101	H
4	18.41391	-58.13	Pk	33.2	-38.8	11.8	-51.93	-13	-38.93	0-360	101	V
2	22.23343	-56.7	Pk	36.8	-39.6	11.8	-47.7	-13	-34.7	0-360	200	H
5	22.23938	-56.69	Pk	36.8	-39.4	11.8	-47.49	-13	-34.49	0-360	150	V
6	25.0084	-55.38	Pk	35.1	-38.4	11.8	-46.88	-13	-33.88	0-360	200	V
3	26.12179	-57.4	Pk	35.4	-37.4	11.8	-47.6	-13	-34.6	0-360	101	H

Pk - Peak detector

### Spurious 26GHz – 40GHz



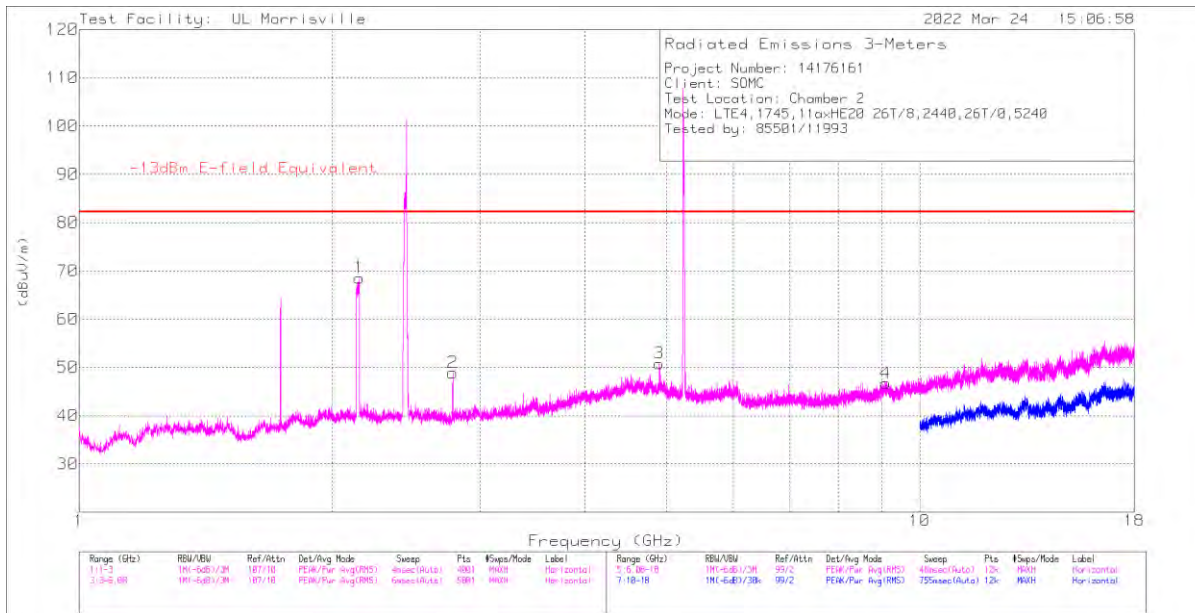
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	ANT (dB/m)	Amp/Cbl (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	27.7647	-58.27	Pk	35.9	-37.2	11.8	-47.77	-13	-34.77	0-360	150	H
1	28.78304	-58.77	Pk	36.3	-37	11.8	-47.67	-13	-34.67	0-360	101	V
5	31.86085	-57.78	Pk	37	-35.9	11.8	-44.88	-13	-31.88	0-360	299	H
2	34.89057	-56.77	Pk	38	-37	11.8	-43.97	-13	-30.97	0-360	200	V
6	35.2002	-56.49	Pk	37.8	-37.2	11.8	-44.09	-13	-31.09	0-360	101	H
3	38.57752	-55.76	Pk	39	-34.6	11.8	-39.56	-13	-26.56	0-360	101	V

Pk - Peak detector

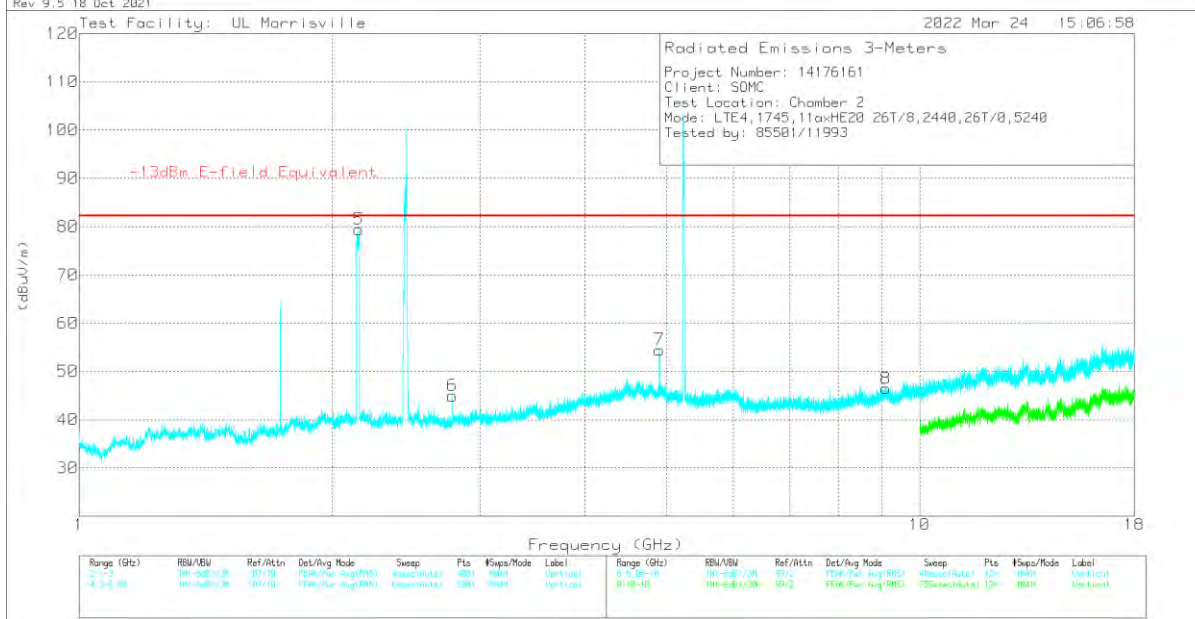
# 11.3. SIM TX

## RESULTS

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



Rev. 9.5 18 Oct 2021



Rev. 9.5 18 Oct 2021

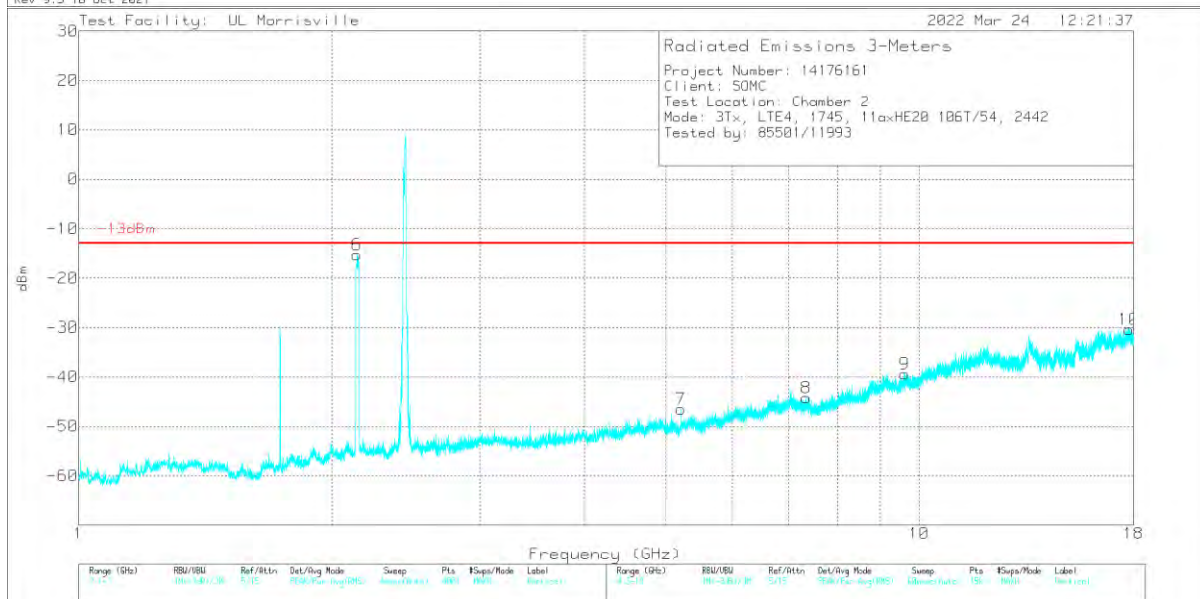
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-13dBm E-field Equivalent	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	** 2.153 (DL)	58.95	Pk	31.7	-23.1	1	-	-	-	0-360	200	H
2	*** 2.782	41.9	Pk	32.4	-25.8	.4	48.9	82.2	-33.3	0-360	200	H
5	** 2.152 (DL)	69.79	Pk	31.6	-23	1	-	-	-	0-360	101	V
6	*** 2.78025	37.97	Pk	32.4	-25.8	.4	44.97	82.2	-37.23	0-360	101	V
3	*** 4.90036	37.92	Pk	34.1	-21.2	0	50.82	82.2	-31.38	0-360	101	H
7	*** 4.90098	41.54	Pk	34.1	-21.2	0	54.44	82.2	-27.76	0-360	199	V
4	*** 9.11066	37	Pk	36.3	-26.6	0	46.7	82.2	-35.5	0-360	101	H
8	*** 9.11861	36.44	Pk	36.3	-26.3	0	46.44	82.2	-35.76	0-360	199	V

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

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



Rev 9.5 18 Oct 2021



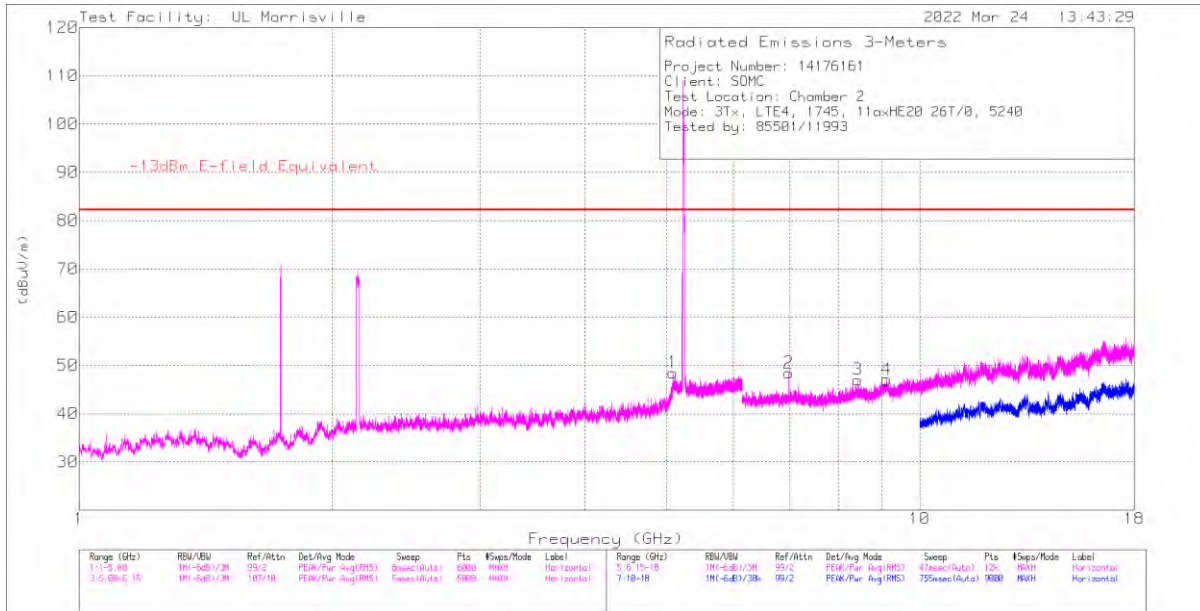
Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.143 (DL)	-33.76	Pk	31.5	-34.3	11.8	1	-	-	-	0-360	200	H
6	2.145 (DL)	-25.38	Pk	31.5	-34.2	11.8	1	-	-	-	0-360	101	V
2	5.208	-58.77	Pk	34.1	-30.4	11.8	0	-43.27	-13	-30.27	0-360	101	H
7	5.208	-62.05	Pk	34.1	-30.4	11.8	0	-46.55	-13	-33.55	0-360	199	V
8	7.343	-65.03	Pk	35.7	-26.7	11.8	0	-44.23	-13	-31.23	0-360	199	V
3	7.345	-61.99	Pk	35.7	-26.7	11.8	0	-41.19	-13	-28.19	0-360	200	H
4	9.623	-60.76	Pk	36.9	-25.7	11.8	0	-37.76	-13	-24.76	0-360	200	H
9	9.623	-62.35	Pk	36.9	-25.7	11.8	0	-39.35	-13	-26.35	0-360	300	V
5	17.791	-62.2	Pk	41.7	-20.8	11.8	0	-29.5	-13	-16.5	0-360	300	H
10	17.795	-62.55	Pk	41.7	-21.3	11.8	0	-30.35	-13	-17.35	0-360	199	V

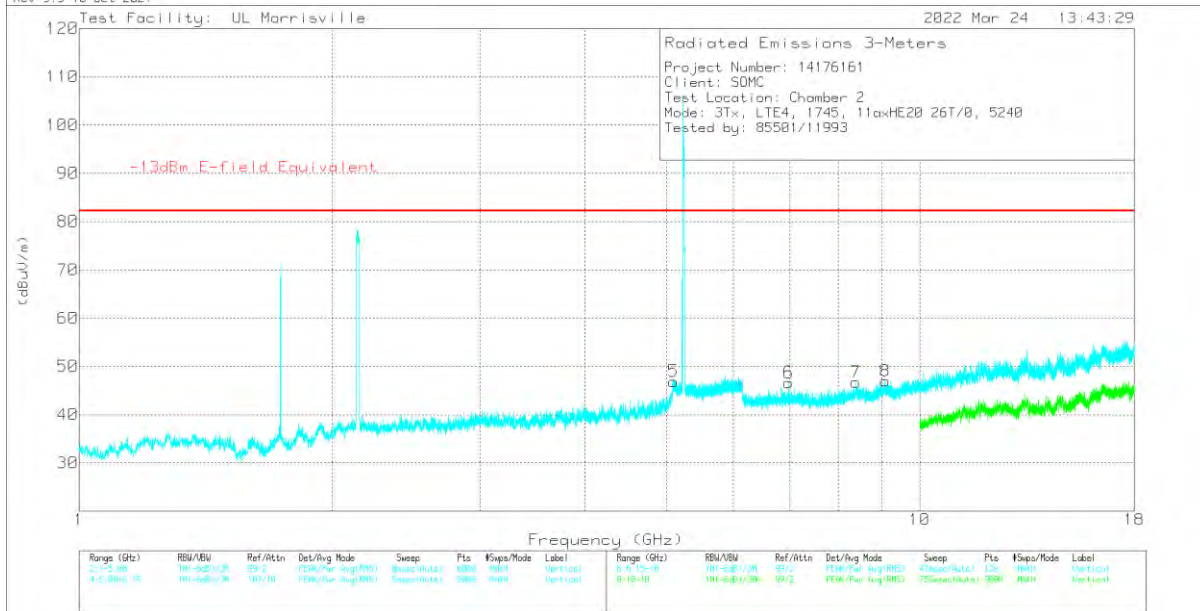
Pk - Peak detector



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



Rev 9.5 18 Oct 2021

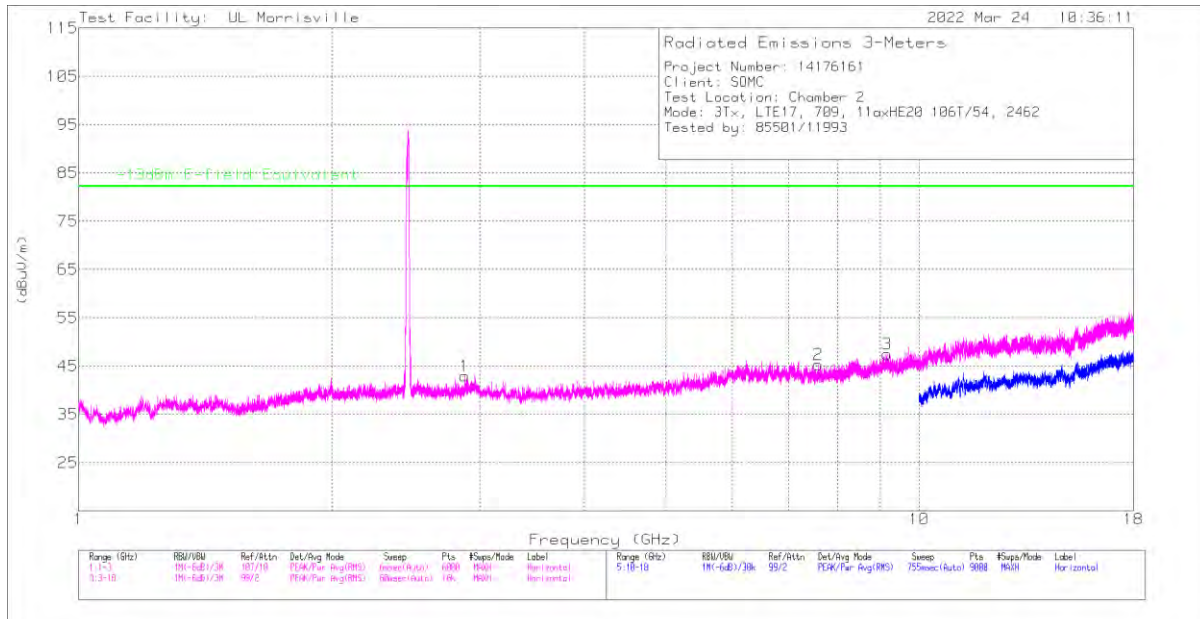


Rev 9.5 18 Oct 2021

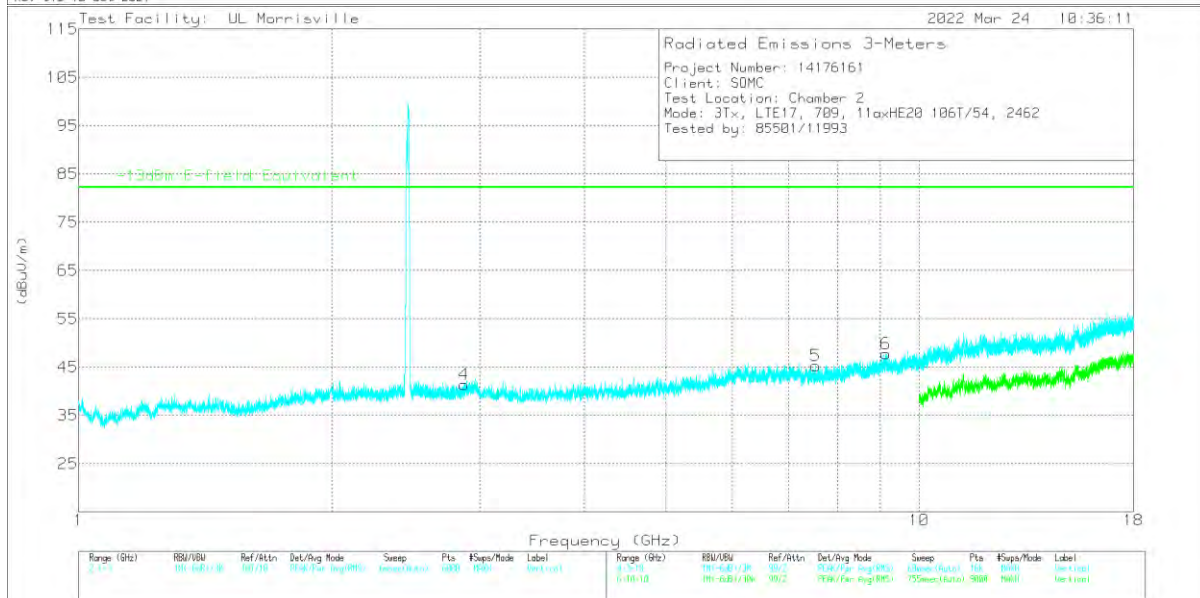
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Fltr (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-13dBm E-field Equivalent	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* ** 8.43508	38.15	Pk	35.9	-27	0	47.05	82.2	-35.15	0-360	199	H
4	* ** 9.13126	36.76	Pk	36.3	-26	0	47.06	82.2	-35.14	0-360	199	H
7	* ** 8.38965	37.22	Pk	35.9	-26.4	0	46.72	82.2	-35.48	0-360	199	V
8	* ** 9.0967	36.67	Pk	36.3	-26	0	46.97	82.2	-35.23	0-360	101	V
2	6.98641	40.24	Pk	35.9	-27.7	0	48.44	82.2	-33.76	0-360	199	H
6	6.98641	38.42	Pk	35.9	-27.7	0	46.62	82.2	-35.58	0-360	101	V
1	* ** 5.08963	36.18	Pk	34.4	-22.1	0	48.48	82.2	-33.72	0-360	199	H
5	* ** 5.09413	34.6	Pk	34.4	-22.1	0	46.9	82.2	-35.3	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

**11.3.4. LTE Band 17, 23780, 709MHz, 10MHz, 1RB and 2462MHz 106T/R54 C0/C1**



Rev 9.5 18 Oct 2021



Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-13dBm E-field Equivalent	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.88031	35.77	Pk	32.6	-25.8	.4	42.97	82.2	-39.23	0-360	200	H
4	*** 2.87265	34.38	Pk	32.5	-25.9	.4	41.38	82.2	-40.82	0-360	200	V
5	*** 7.53563	36.11	Pk	35.7	-27.1	.6	45.31	82.2	-36.89	0-360	199	V
2	*** 7.59188	35.63	Pk	35.6	-26.5	.6	45.33	82.2	-36.87	0-360	101	H
6	*** 9.13406	36.18	Pk	36.3	-25.2	.5	47.78	82.2	-34.42	0-360	101	V
3	*** 9.16125	36.59	Pk	36.3	-25.9	.5	47.49	82.2	-34.71	0-360	101	H

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

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

## 12. SETUP PHOTOS

Please see R14176161-EP2 for Setup Photos.

## END OF REPORT