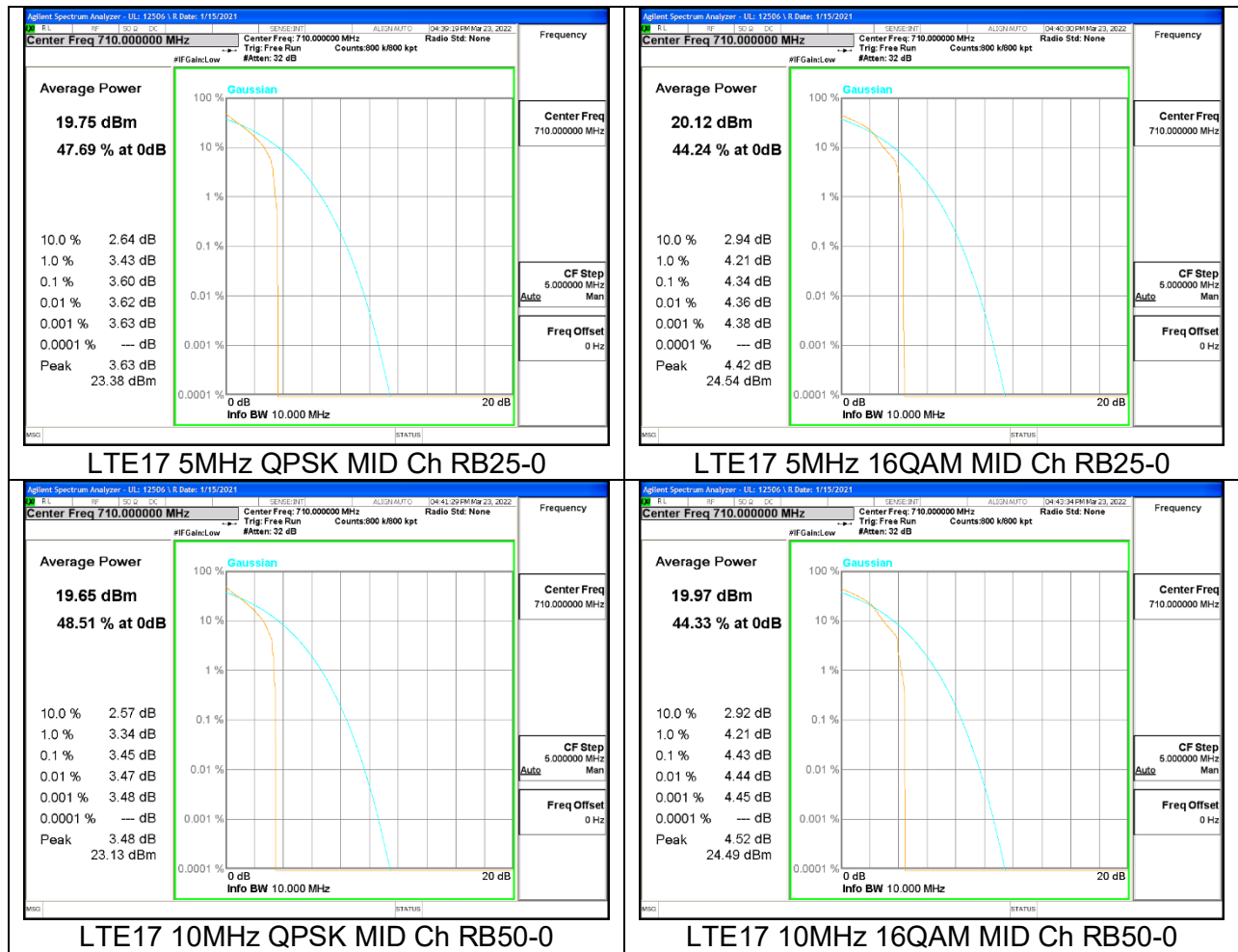


10.5.2. LTE17



11. RADIATED TEST RESULTS

11.1. FIELD STRENGTH OF SPURIOUS RADIATION ABOVE 1GHz

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53 and §90.691.

LIMITS

FCC: §22.917(a), §24.238(a), §27.53 (h), §90.691

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.

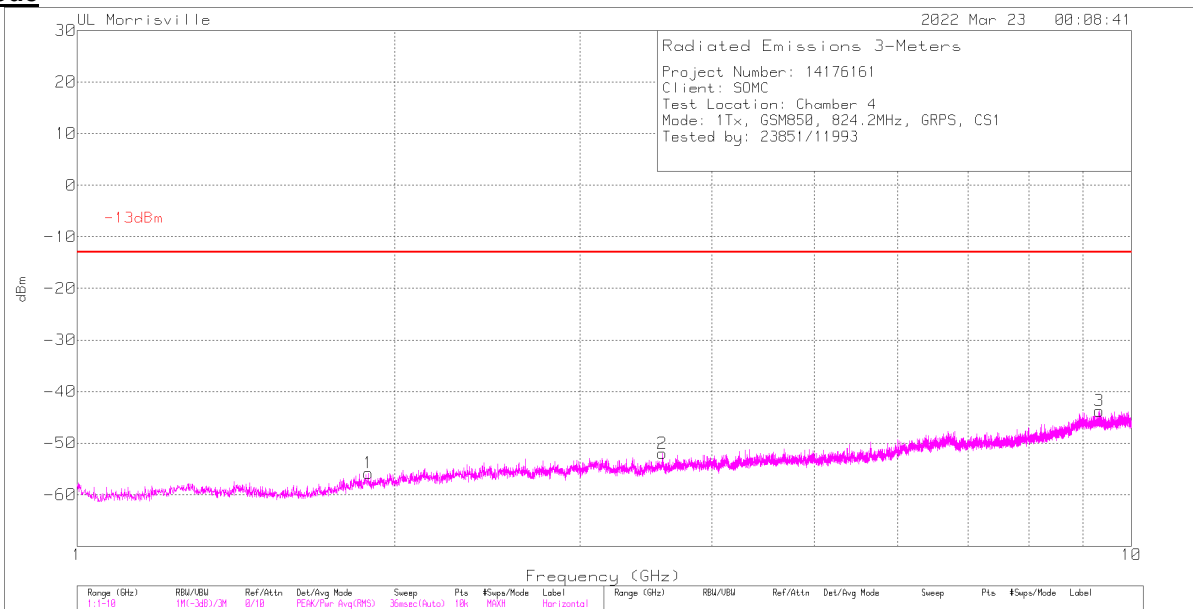
TEST PROCEDURE

KDB 971168 D01 v02r02/D02 v01

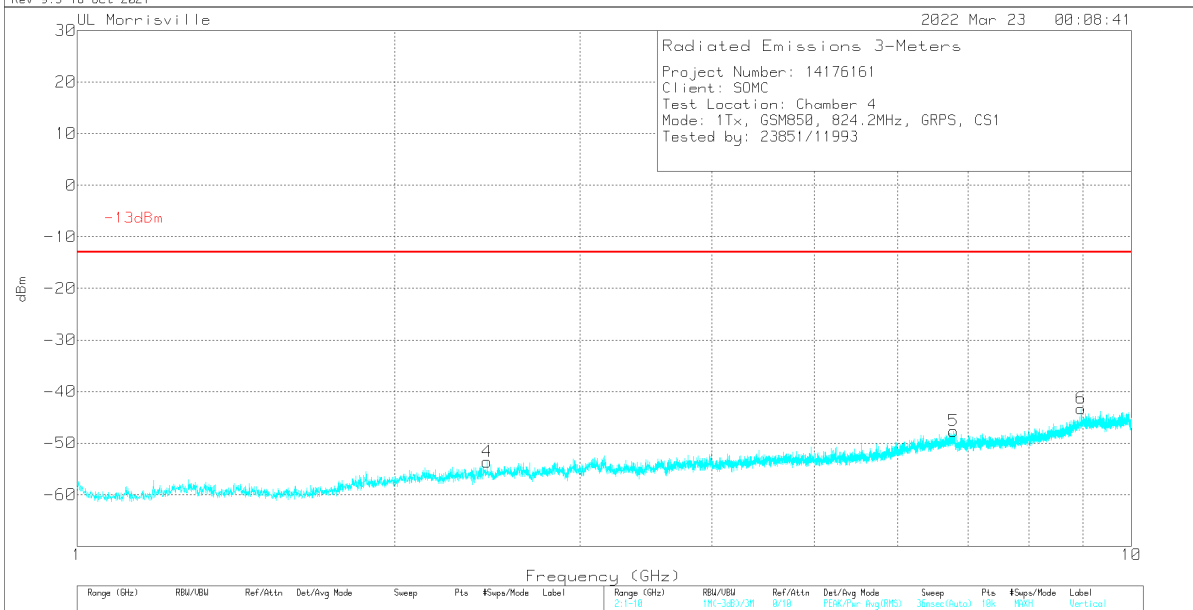
RESULTS

11.1.1. GSM GSM850

GRPS Mode



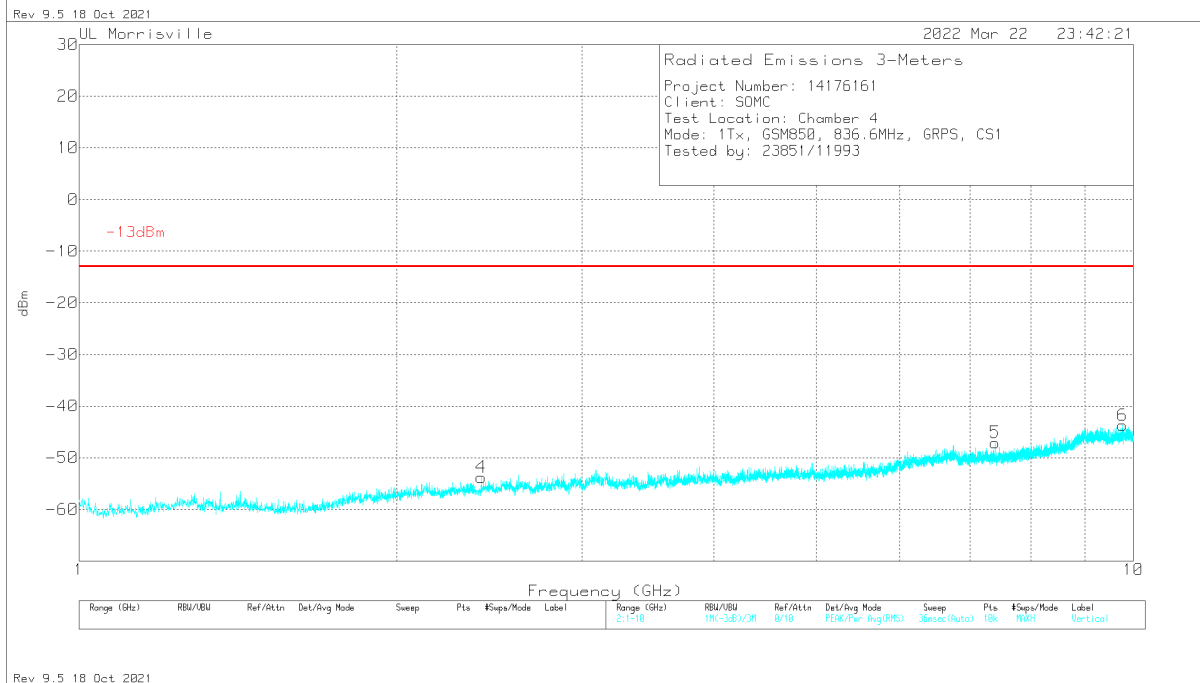
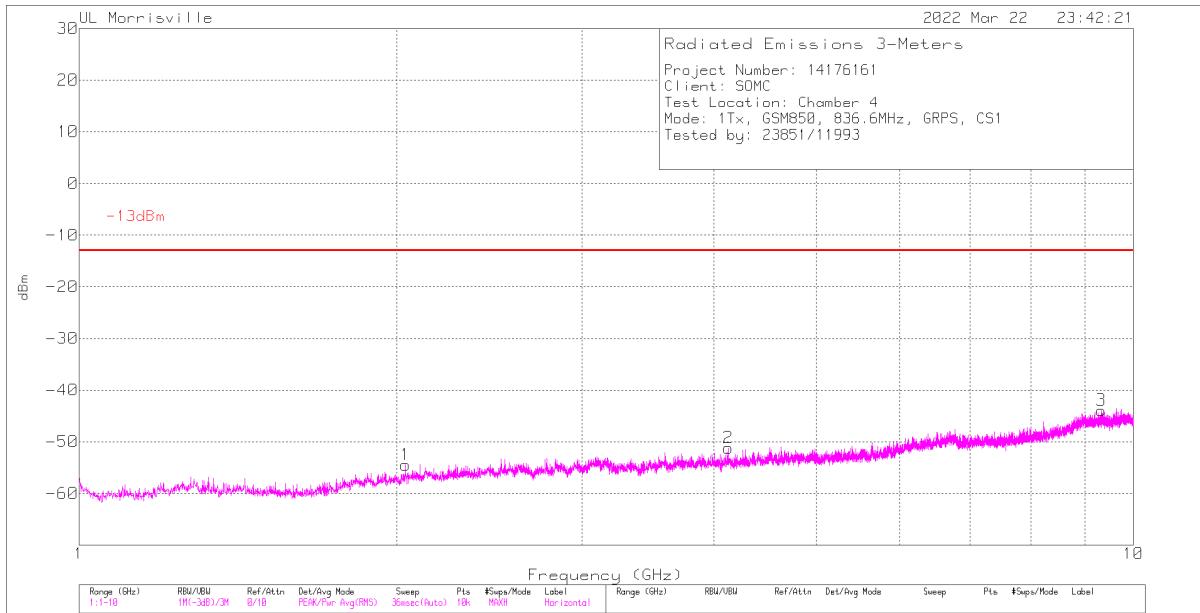
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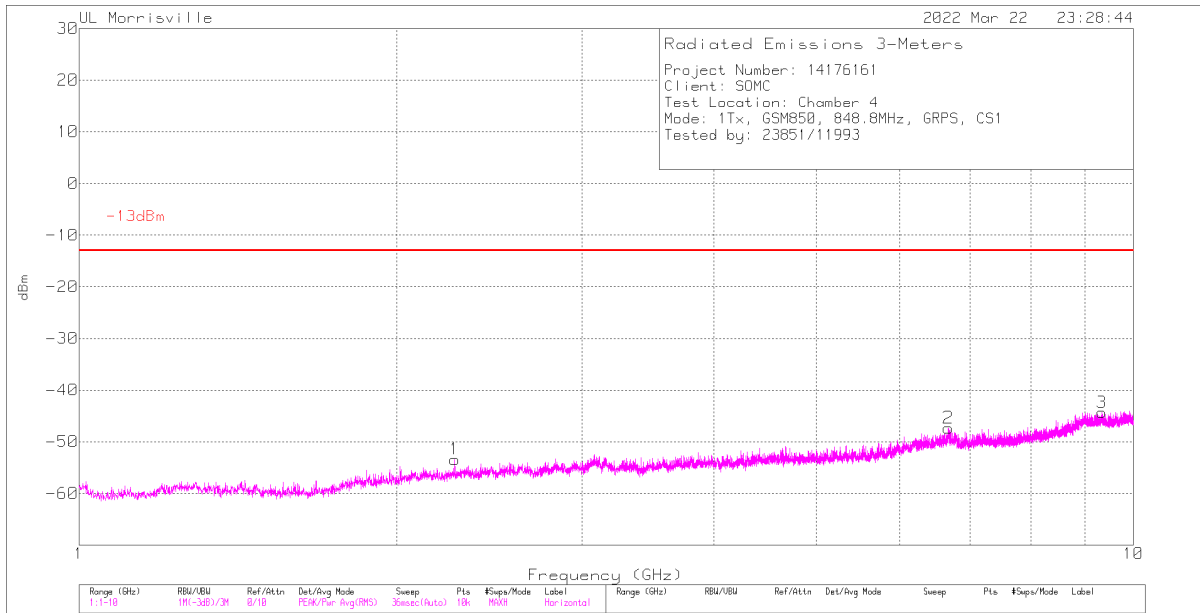
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.8883	-62.02	Pk	30.6	-36.6	.4	11.8	-55.82	-13	-42.82	0-360	100	H
4	2.4481	-61.21	Pk	32.1	-36.7	.4	11.8	-53.61	-13	-40.61	0-360	300	V
2	3.5893	-62.5	Pk	32.9	-34.9	.7	11.8	-52	-13	-39	0-360	200	H
5	6.7843	-65.96	Pk	35.4	-29.6	.7	11.8	-47.66	-13	-34.66	0-360	300	V
6	8.9587	-64.88	Pk	36	-26.8	.6	11.8	-43.28	-13	-30.28	0-360	200	V
3	9.3187	-65.85	Pk	36.4	-26.7	.6	11.8	-43.75	-13	-30.75	0-360	100	H

Pk - Peak detector

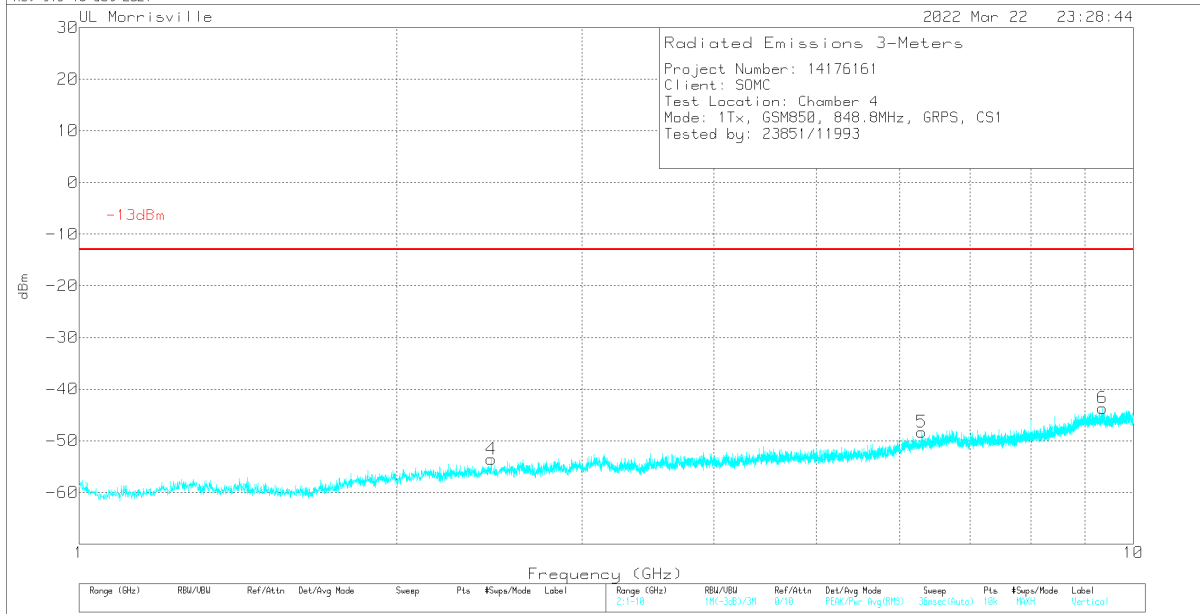


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.0395	-61.17	Pk	31.2	-36.7	.4	11.8	-54.47	-13	-41.47	0-360	100	H
4	2.4067	-61.17	Pk	31.9	-36.7	.4	11.8	-53.77	-13	-40.77	0-360	300	V
2	4.1266	-63.69	Pk	33.4	-33.2	.5	11.8	-51.19	-13	-38.19	0-360	100	H
5	7.3909	-65.47	Pk	35.4	-29.4	.6	11.8	-47.07	-13	-34.07	0-360	300	V
3	9.3223	-66.11	Pk	36.4	-26.6	.6	11.8	-43.91	-13	-30.91	0-360	200	H
6	9.7678	-66.21	Pk	36.9	-27.1	.9	11.8	-43.71	-13	-30.71	0-360	200	V

Pk - Peak detector



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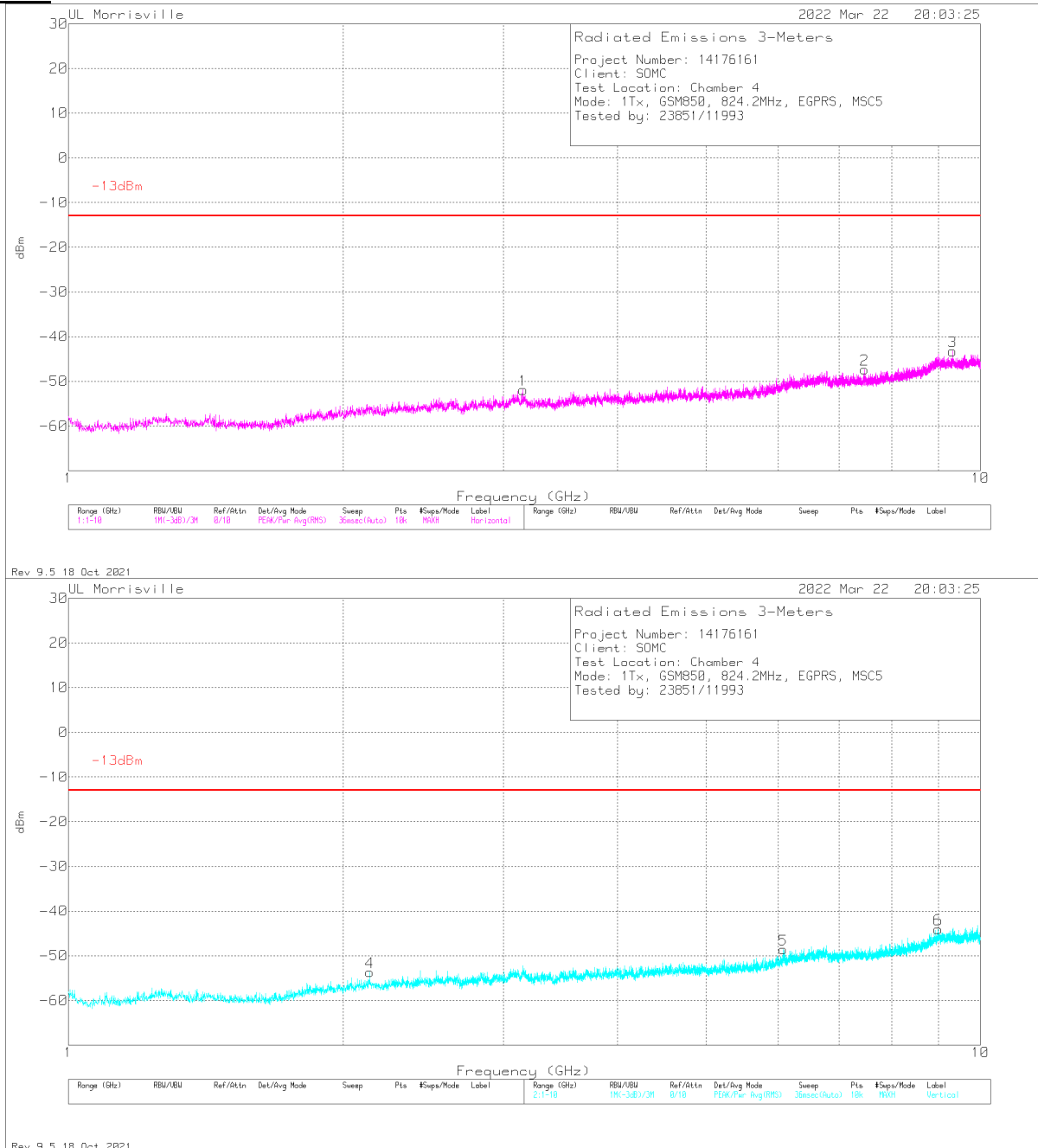


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Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.2717	-60.6	Pk	31.8	-36.8	.4	11.8	-53.4	-13	-40.4	0-360	200	H
4	2.4598	-61.25	Pk	32.1	-36.6	.4	11.8	-53.55	-13	-40.55	0-360	200	V
5	6.2983	-65.6	Pk	35.4	-30.5	.6	11.8	-48.3	-13	-35.3	0-360	300	V
2	6.6763	-65.65	Pk	35.5	-29.6	.6	11.8	-47.35	-13	-34.35	0-360	100	H
3	9.3313	-66.73	Pk	36.4	-26.5	.7	11.8	-44.33	-13	-31.33	0-360	100	H
6	9.3493	-66.15	Pk	36.5	-26.6	.8	11.8	-43.65	-13	-30.65	0-360	300	V

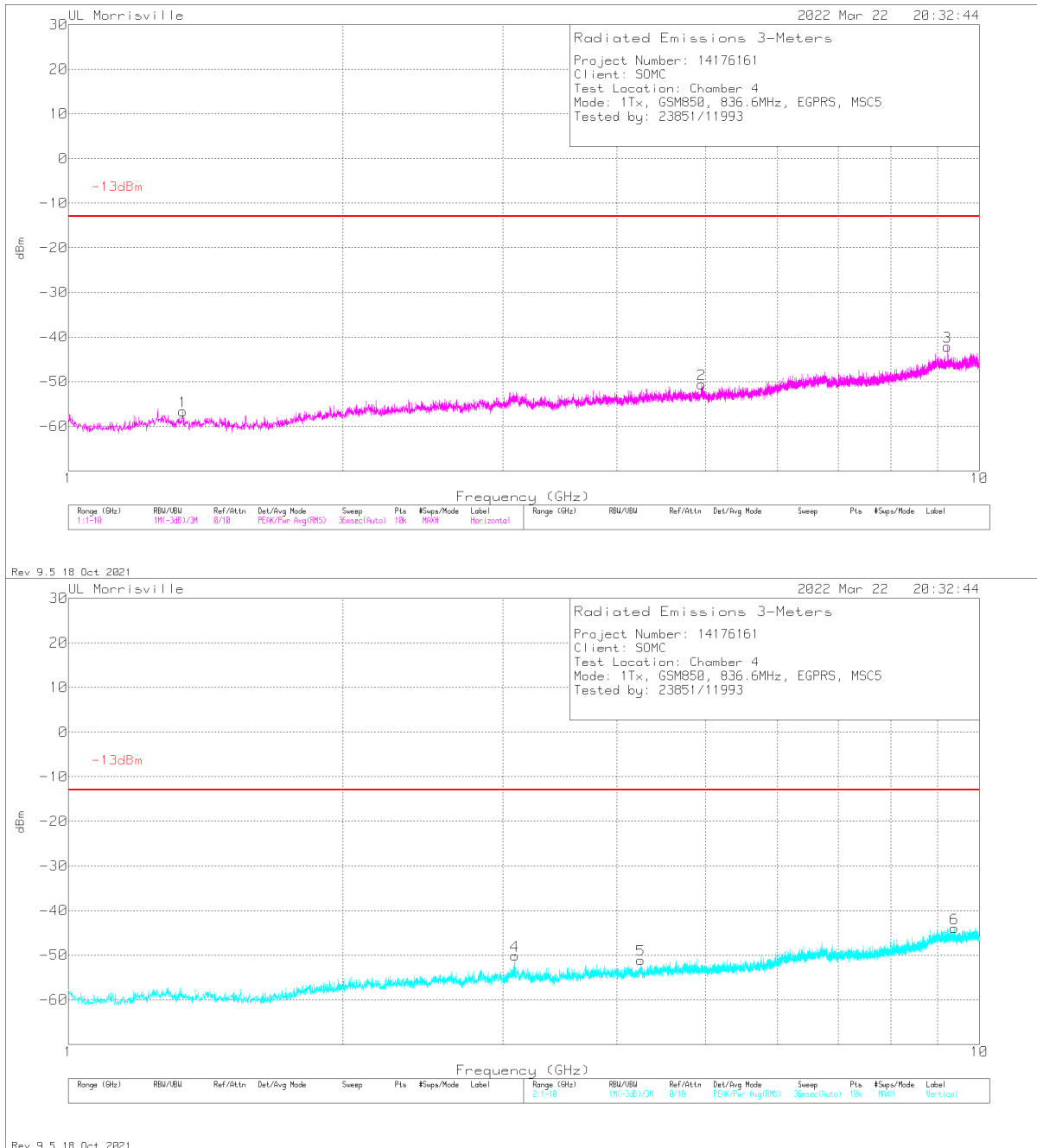
Pk - Peak detector

EGPRS Mode



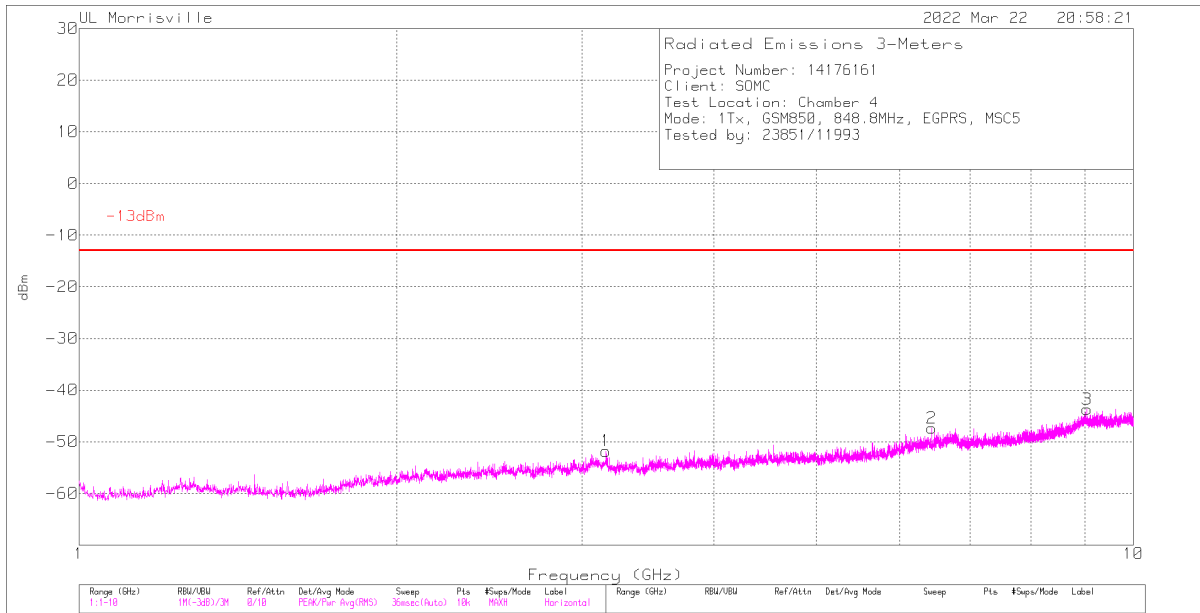
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.1403	-60.98	Pk	31.8	-36.7	.4	11.8	-53.68	-13	-40.68	0-360	100	V
1	3.1528	-61.51	Pk	33.3	-36	.5	11.8	-51.91	-13	-38.91	0-360	100	H
5	6.0805	-65.59	Pk	35.3	-30.9	.8	11.8	-48.59	-13	-35.59	0-360	100	V
2	7.4665	-66.04	Pk	35.5	-29.2	.6	11.8	-47.34	-13	-34.34	0-360	100	H
6	8.9893	-65.83	Pk	36	-26.5	.5	11.8	-44.03	-13	-31.03	0-360	200	V
3	9.3277	-65.66	Pk	36.4	-26.5	.7	11.8	-43.26	-13	-30.26	0-360	200	H

Pk - Peak detector

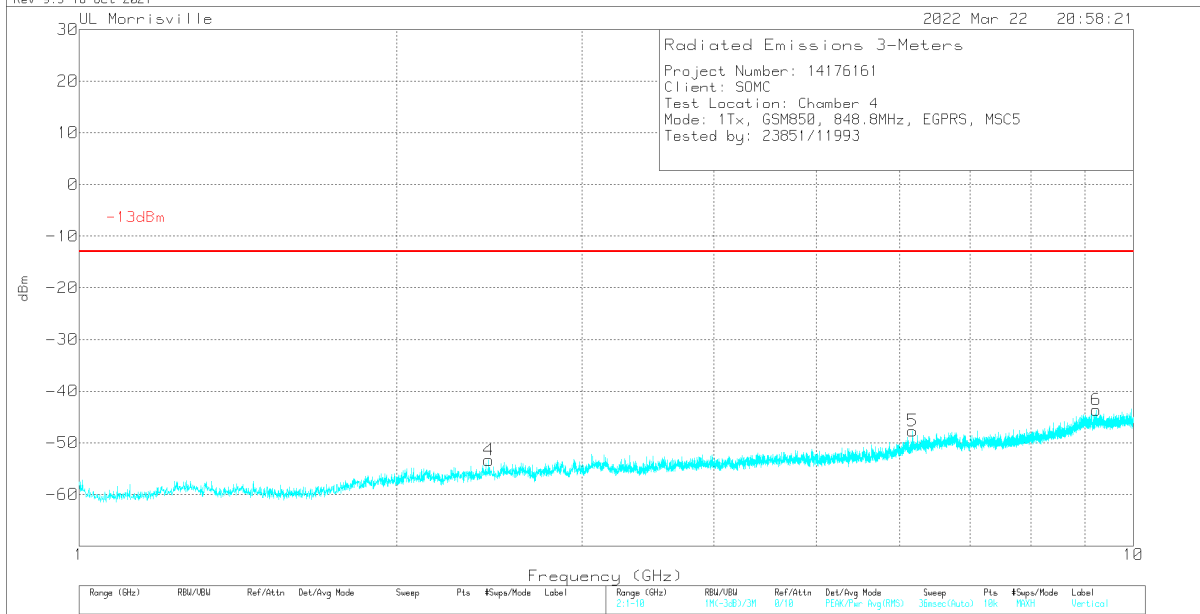


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.3348	-61.56	Pk	28.7	-36.5	.9	11.8	-56.66	-13	-43.66	0-360	200	H
4	3.0925	-60.23	Pk	33.7	-36	.6	11.8	-50.13	-13	-37.13	0-360	200	V
5	4.249	-63.78	Pk	33.3	-32.8	.4	11.8	-51.08	-13	-38.08	0-360	300	V
2	4.9519	-64.08	Pk	34	-32.6	.3	11.8	-50.58	-13	-37.58	0-360	200	H
3	9.2242	-64.16	Pk	36.3	-26.9	.8	11.8	-42.16	-13	-29.16	0-360	200	H
6	9.3916	-66.26	Pk	36.5	-26.7	.7	11.8	-43.96	-13	-30.96	0-360	300	V

Pk - Peak detector



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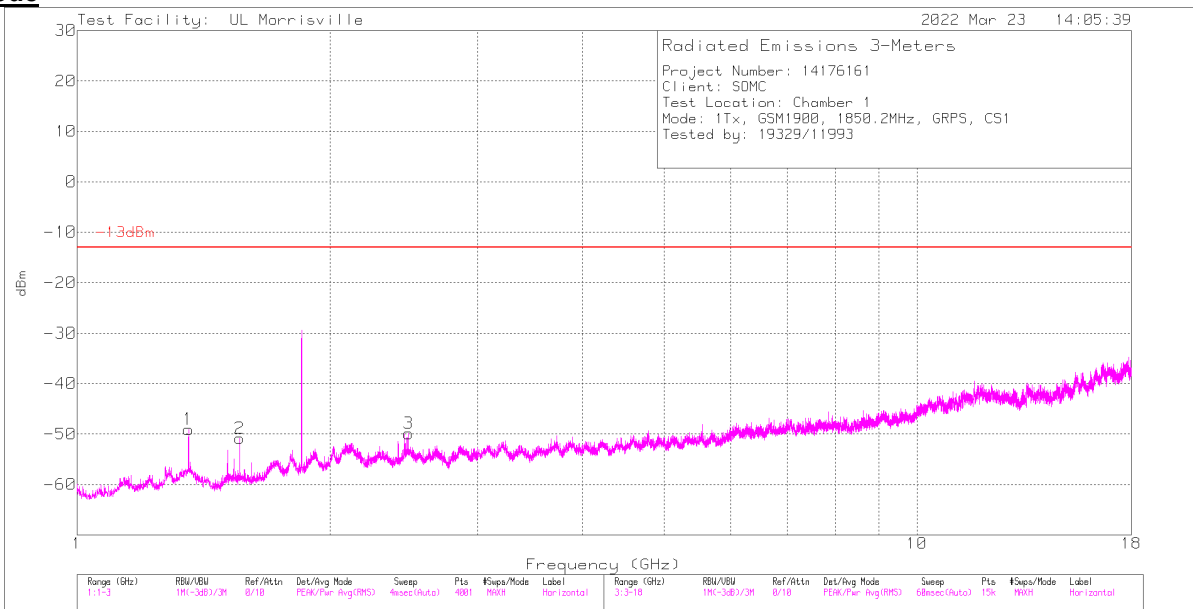
Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.4463	-60.97	Pk	32.1	-36.7	.4	11.8	-53.37	-13	-40.37	0-360	200	V
1	3.1582	-61.5	Pk	33.2	-35.9	.6	11.8	-51.8	-13	-38.8	0-360	100	H
5	6.1732	-65.02	Pk	35.4	-30.5	.6	11.8	-47.72	-13	-34.72	0-360	300	V
2	6.4369	-64.99	Pk	35.4	-30.2	.6	11.8	-47.39	-13	-34.39	0-360	100	H
3	9.0388	-65.33	Pk	36.1	-26.8	.5	11.8	-43.73	-13	-30.73	0-360	100	H
6	9.2251	-65.64	Pk	36.3	-26.9	.8	11.8	-43.64	-13	-30.64	0-360	300	V

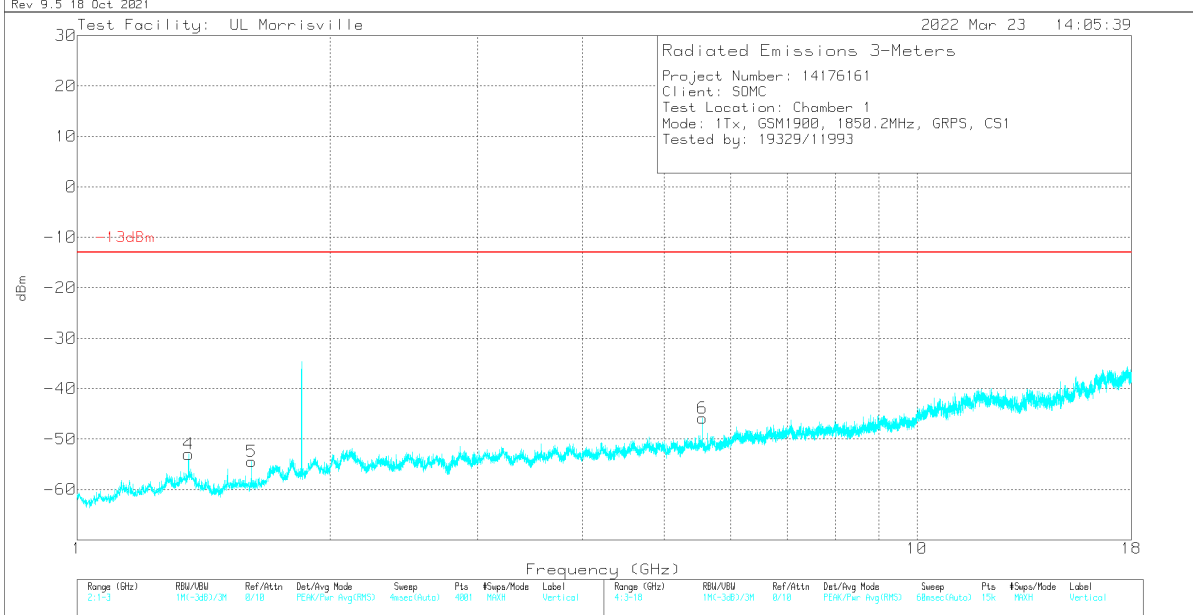
Pk - Peak detector

11.1.2. GSM GSM1900

GPRS Mode



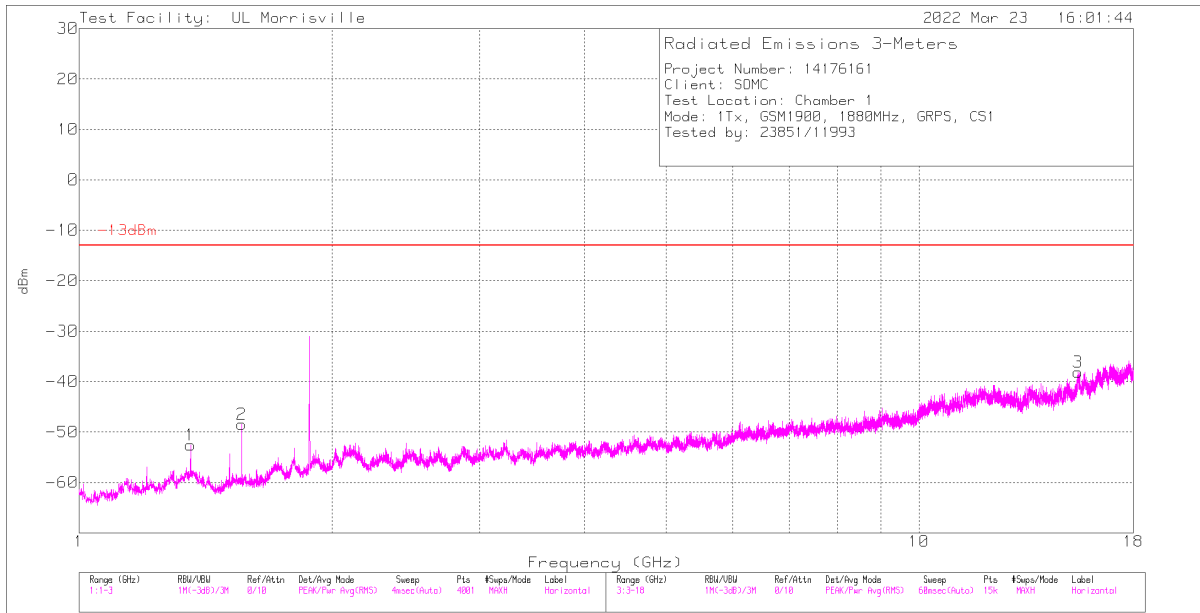
Rev 9.5 18 Oct 2021



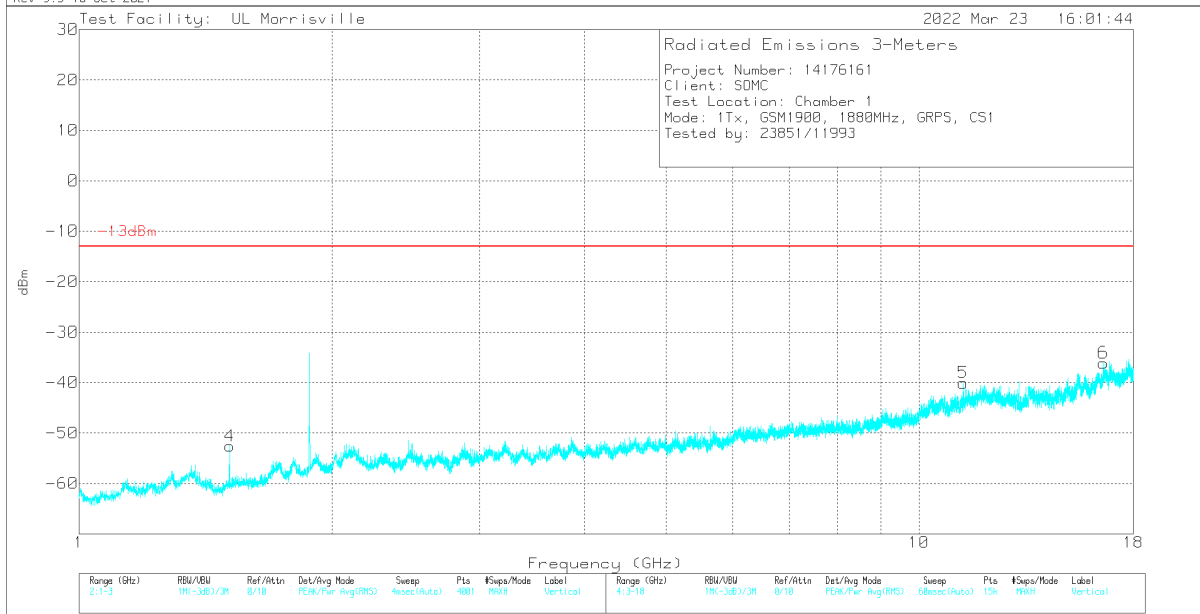
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Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.357	-54.44	Pk	29.6	-36.6	11.8	.6	-49.04	-13	-36.04	0-360	200	H
4	1.357	-58.39	Pk	29.6	-36.6	11.8	.6	-52.99	-13	-39.99	0-360	201	V
2	1.5615	-55.63	Pk	28.2	-36.2	11.8	1	-50.83	-13	-37.83	0-360	300	H
5	1.6135	-59.96	Pk	28.4	-36	11.8	1.3	-54.46	-13	-41.46	0-360	300	V
3	2.4805	-60.38	Pk	32.3	-34.1	11.8	.5	-49.88	-13	-36.88	0-360	101	H
6	5.55	-60.06	Pk	34.4	-32	11.8	0	-45.86	-13	-32.86	0-360	101	V

Pk - Peak detector



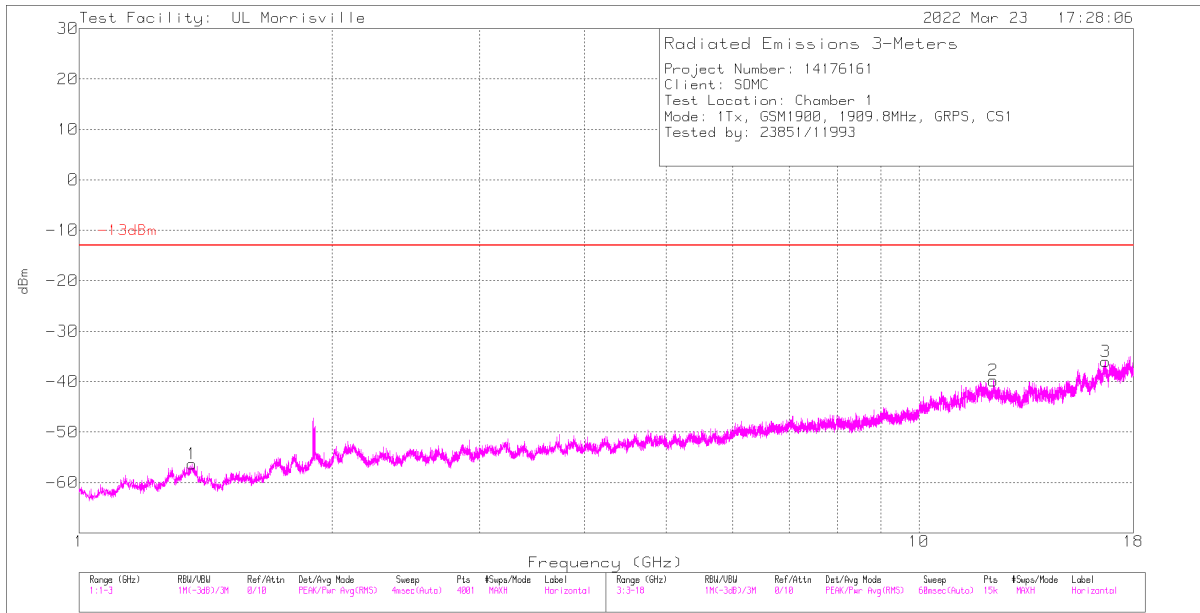
Rev 9.5 18 Oct 2021



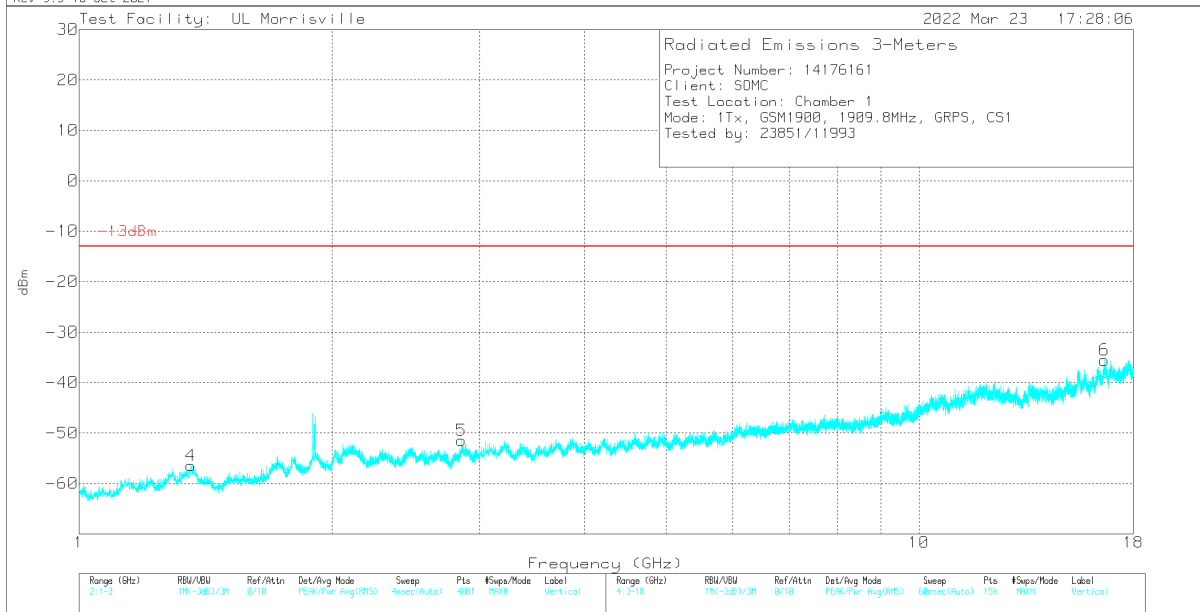
Rev 9.5 18 Oct 2021

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
1	1.357	-57.98	Pk	29.6	-36.6	11.8	.6	-52.58	-13	-39.58	0-360	101	H
4	1.5105	-56.7	Pk	27.6	-36.3	11.8	1	-52.6	-13	-39.6	0-360	300	V
2	1.5615	-53.29	Pk	28.2	-36.2	11.8	1	-48.49	-13	-35.49	0-360	200	H
5	11.28	-64.75	Pk	37.9	-25	11.8	0	-40.05	-13	-27.05	0-360	101	V
3	15.46	-67.34	Pk	40.4	-23	11.8	0	-38.14	-13	-25.14	0-360	300	H
6	16.581	-65.39	Pk	41.2	-23.7	11.8	0	-36.09	-13	-23.09	0-360	101	V

Pk - Peak detector



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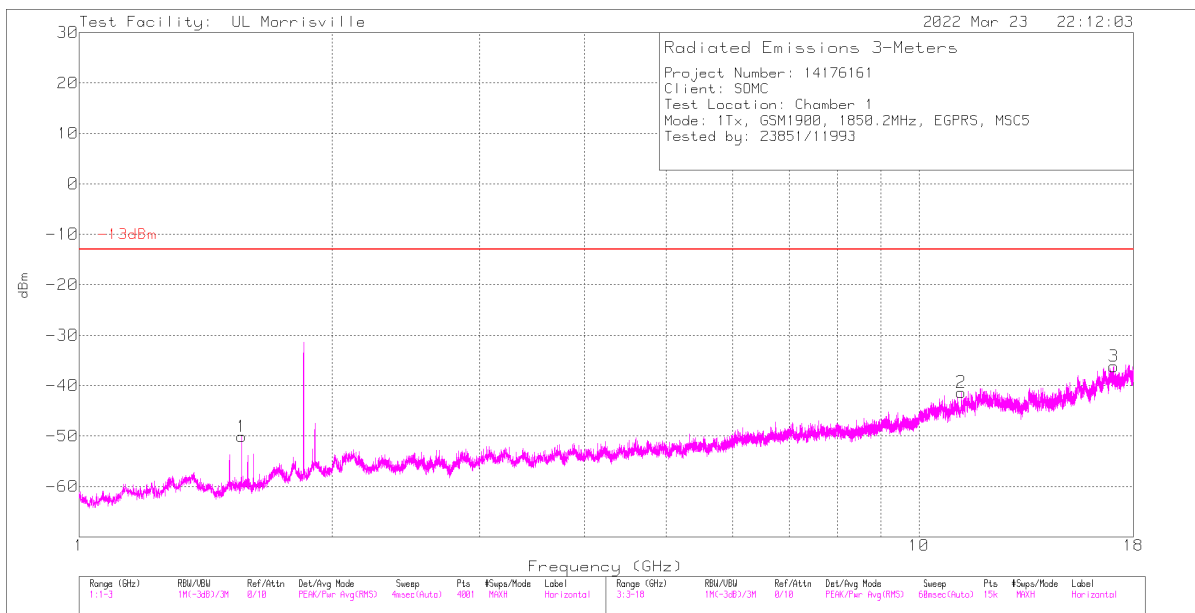


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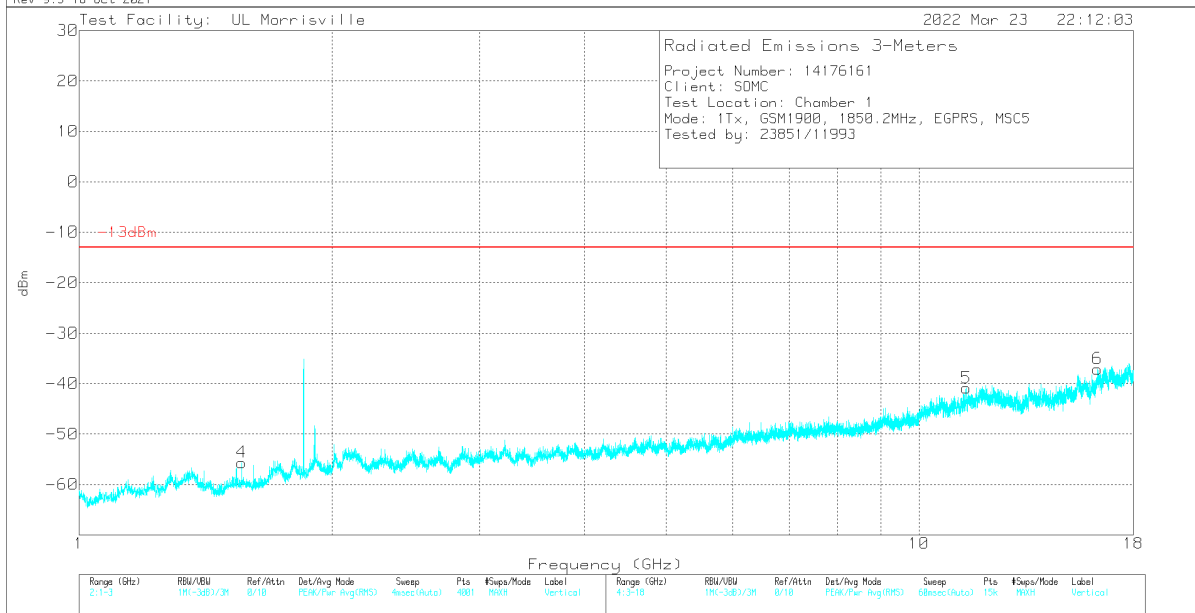
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.358	-62.07	Pk	29.6	-36.5	11.8	.7	-56.47	-13	-43.47	0-360	199	V
1	1.3635	-61.93	Pk	29.6	-36.5	11.8	.7	-56.33	-13	-43.33	0-360	101	H
5	2.8535	-62.66	Pk	32.6	-33.5	11.8	.3	-51.46	-13	-38.46	0-360	299	V
2	12.254	-65.69	Pk	38.9	-24.8	11.8	0	-39.79	-13	-26.79	0-360	300	H
6	16.637	-65.26	Pk	41.2	-23.3	11.8	0	-35.56	-13	-22.56	0-360	200	V
3	16.687	-65.82	Pk	41.3	-23.3	11.8	0	-36.02	-13	-23.02	0-360	101	H

Pk - Peak detector

EGPRS Mode



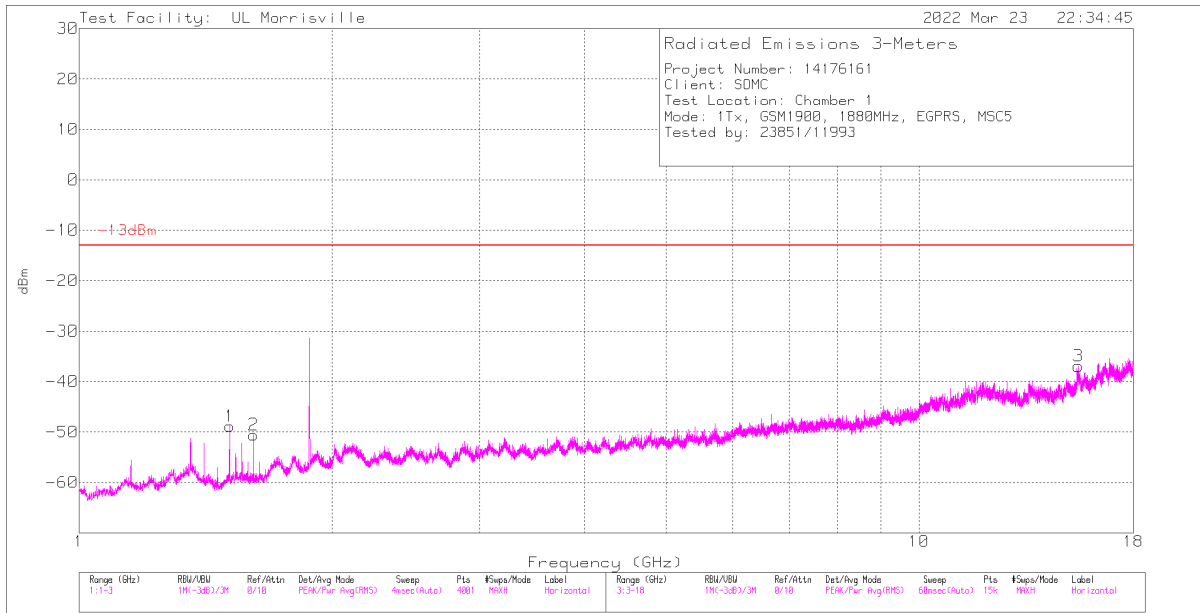
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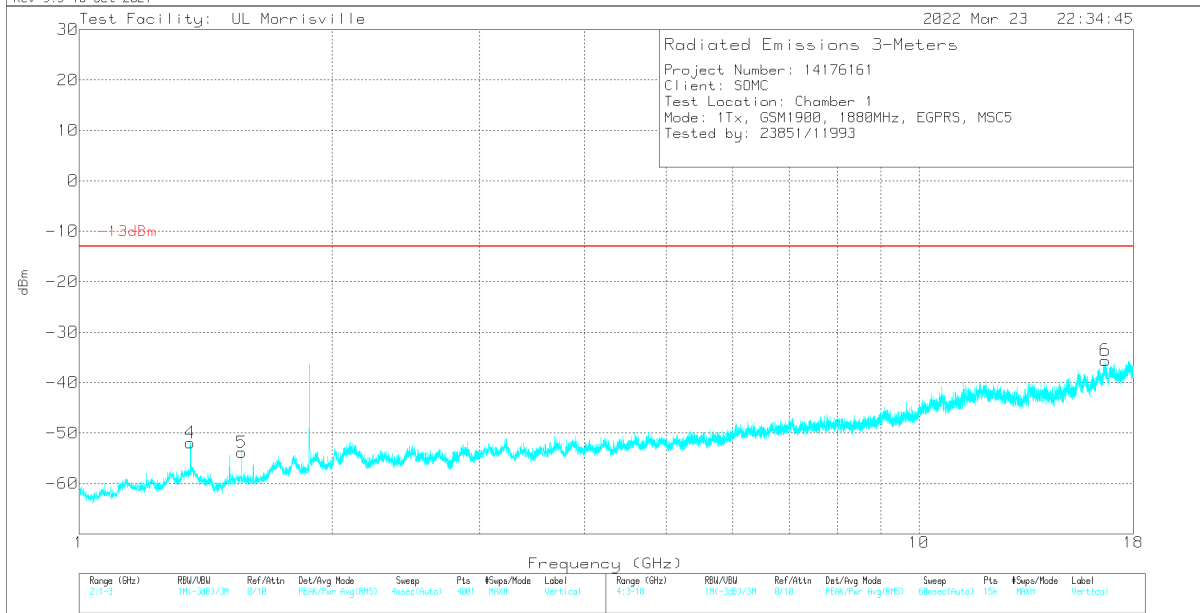
Rev 9.5 18 Oct 2021

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
4	1.5615	-60.43	Pk	28.2	-36.2	11.8	1	-55.63	-13	-42.63	0-360	300	V
1	1.562	-54.89	Pk	28.2	-36.2	11.8	1	-50.09	-13	-37.09	0-360	101	H
2	11.23	-66.56	Pk	37.9	-24.5	11.8	0	-41.36	-13	-28.36	0-360	101	H
5	11.381	-66.59	Pk	38	-24.1	11.8	0	-40.89	-13	-27.89	0-360	300	V
6	16.321	-66.38	Pk	40.8	-23.3	11.8	0	-37.08	-13	-24.08	0-360	101	V
3	17.063	-65.89	Pk	41.3	-23.4	11.8	0	-36.19	-13	-23.19	0-360	101	H

Pk - Peak detector



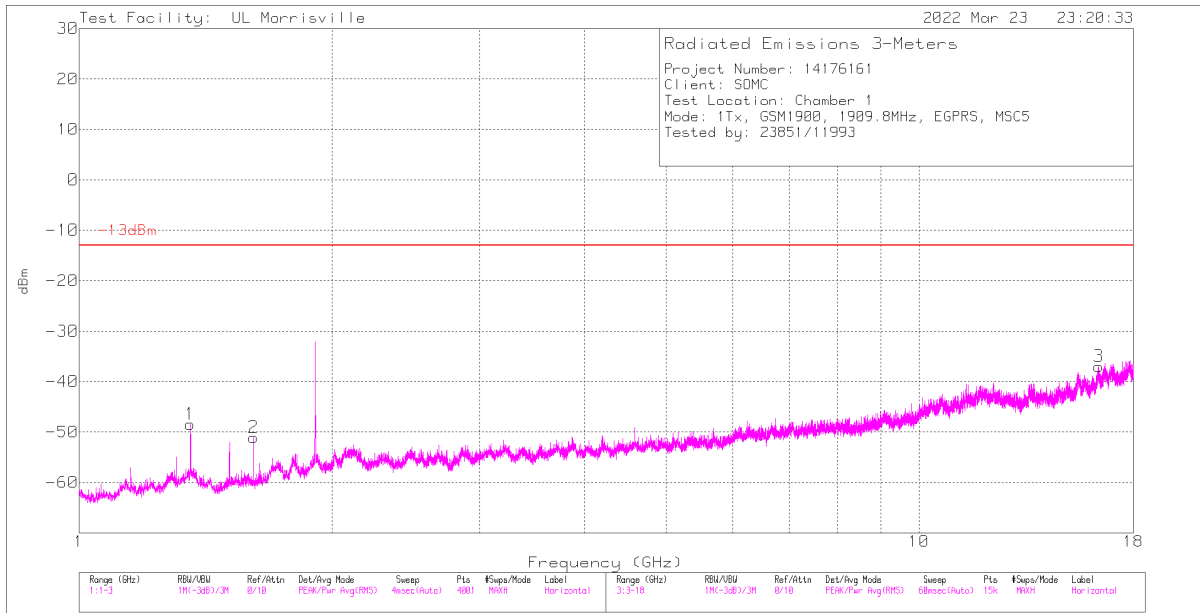
Rev 9.5 18 Oct 2021



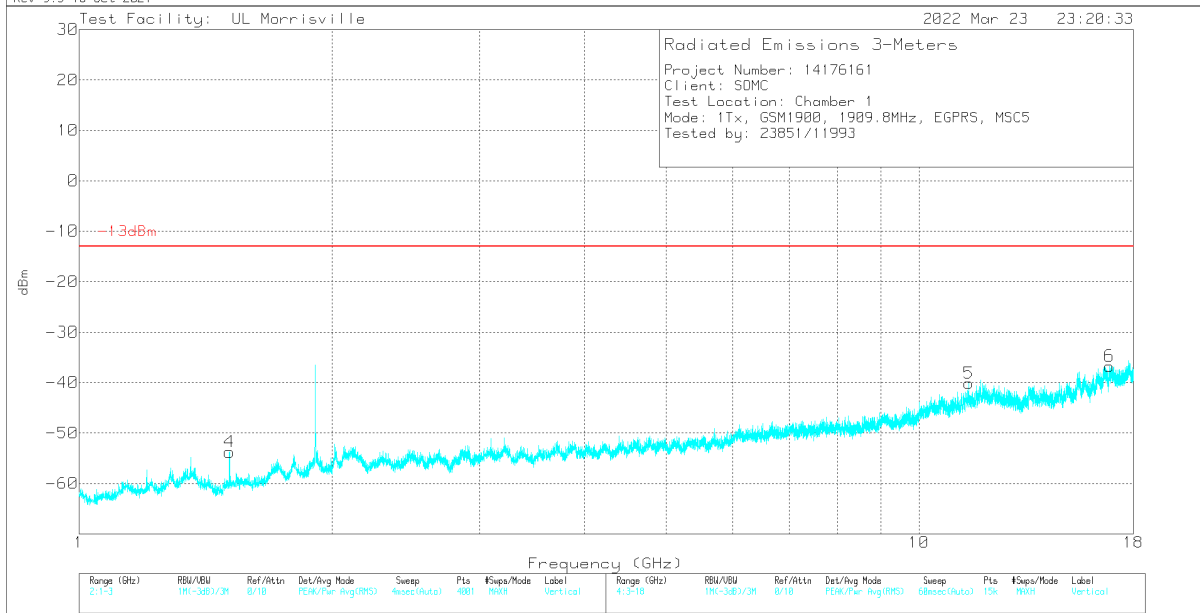
Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.3565	-57.32	Pk	29.6	-36.6	11.8	.6	-51.92	-13	-38.92	0-360	300	V
1	1.5105	-52.94	Pk	27.6	-36.3	11.8	1	-48.84	-13	-35.84	0-360	299	H
5	1.562	-58.64	Pk	28.2	-36.2	11.8	1	-53.84	-13	-40.84	0-360	300	V
2	1.613	-56.07	Pk	28.4	-36	11.8	1.3	-50.57	-13	-37.57	0-360	200	H
3	15.481	-65.92	Pk	40.4	-23.2	11.8	0	-36.92	-13	-23.92	0-360	200	H
6	16.667	-66.31	Pk	41.3	-22.4	11.8	0	-35.61	-13	-22.61	0-360	200	V

Pk - Peak detector



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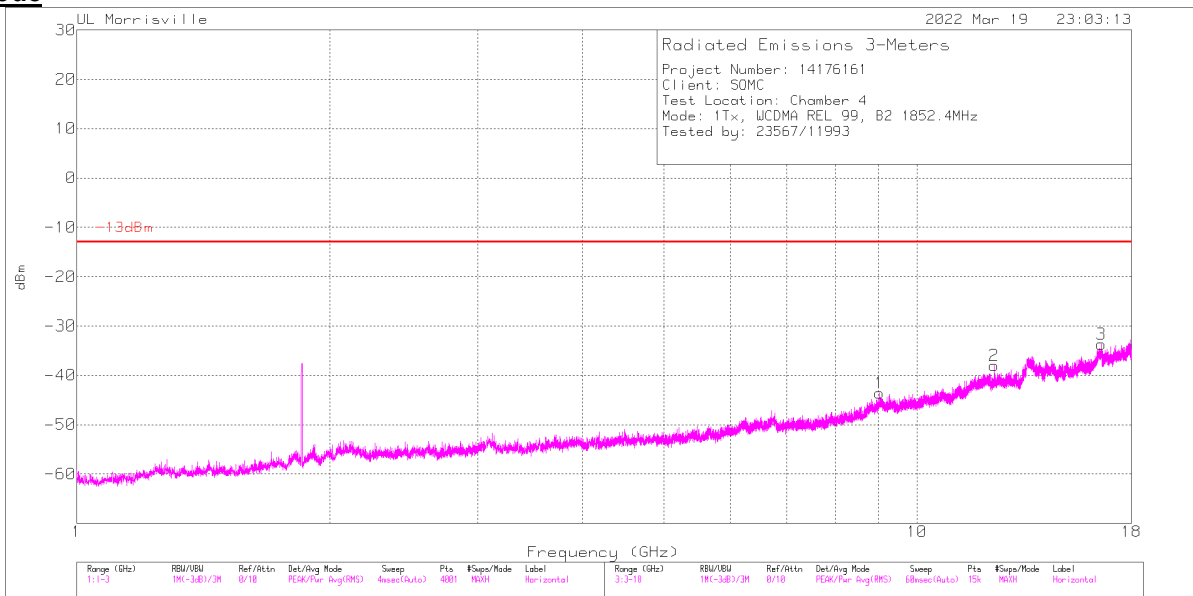
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Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.3565	-53.83	Pk	29.6	-36.6	11.8	.6	-48.43	-13	-35.43	0-360	199	H
4	1.51	-57.85	Pk	27.6	-36.3	11.8	1	-53.75	-13	-40.75	0-360	101	V
2	1.613	-56.55	Pk	28.4	-36	11.8	1.3	-51.05	-13	-38.05	0-360	101	H
5	11.459	-65.33	Pk	38	-24.6	11.8	0	-40.13	-13	-27.13	0-360	101	V
3	16.373	-65.17	Pk	40.9	-24.5	11.8	0	-36.97	-13	-23.97	0-360	101	H
6	16.862	-66.83	Pk	41.4	-23.1	11.8	0	-36.73	-13	-23.73	0-360	101	V

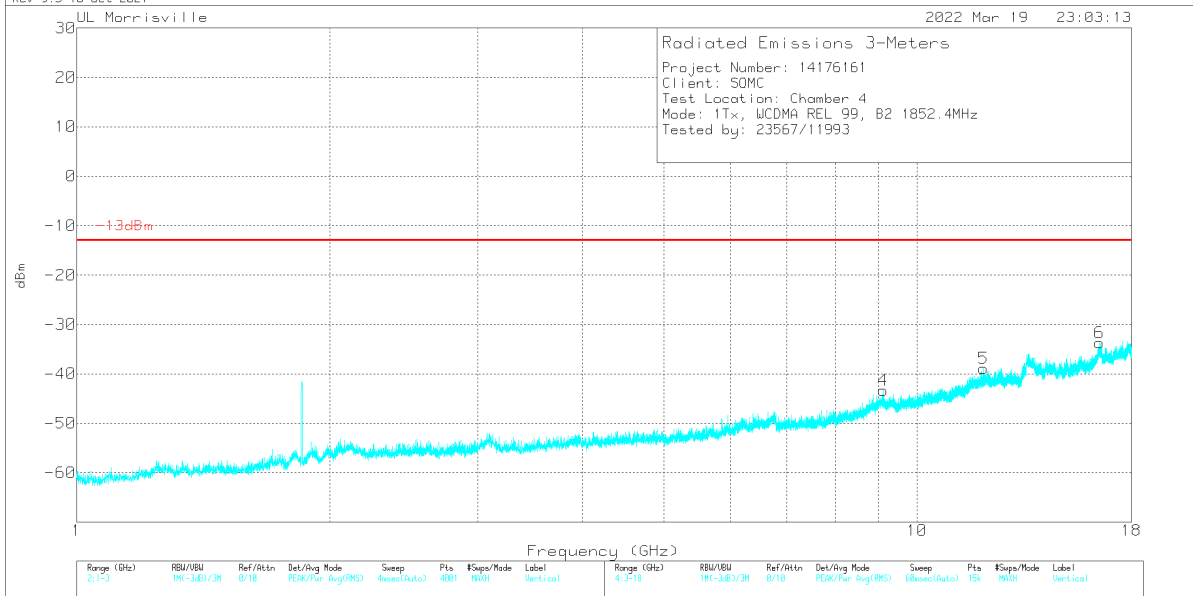
Pk - Peak detector

11.1.3. WCDMA BAND 2

Rel 99 Mode



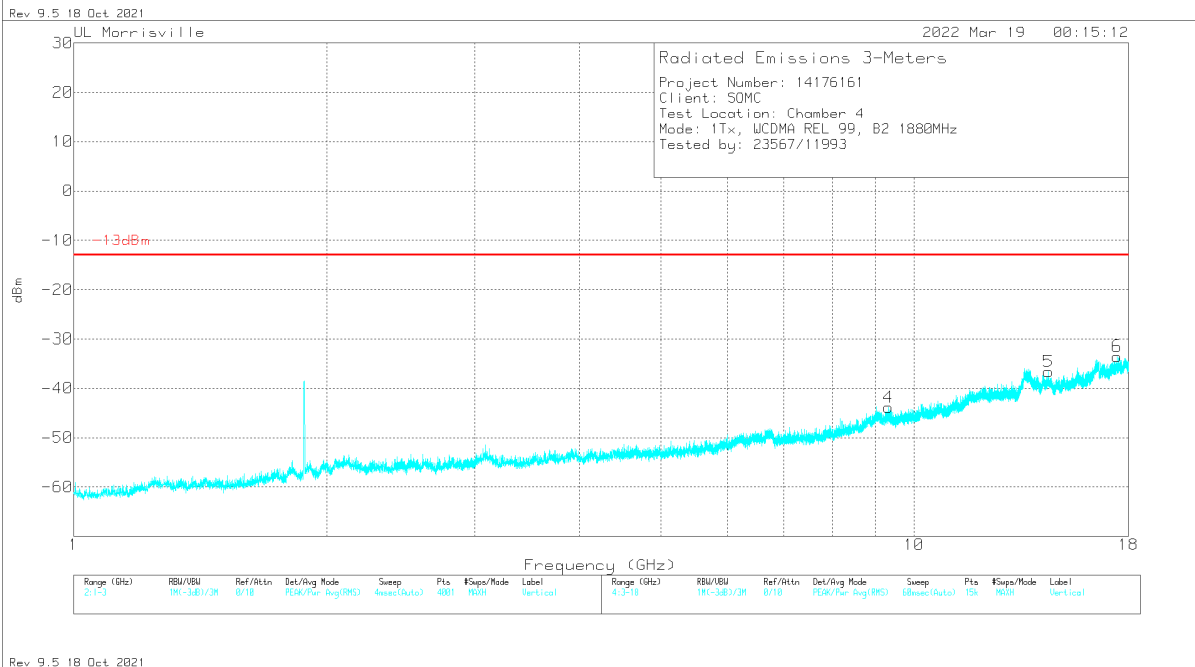
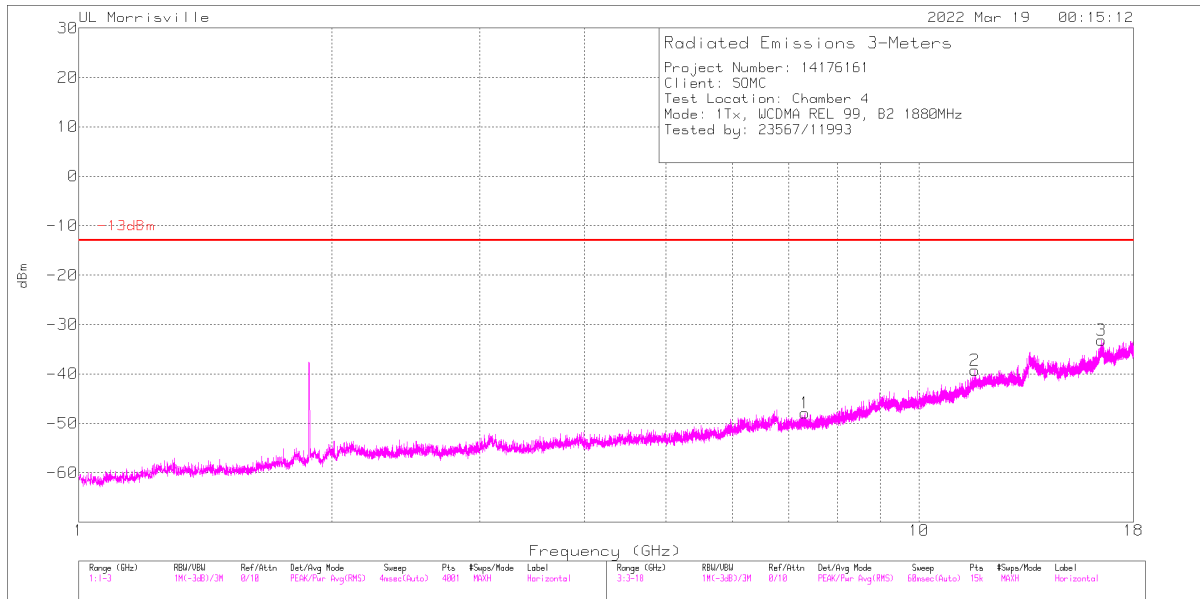
Rev 9.5 18 Oct 2021



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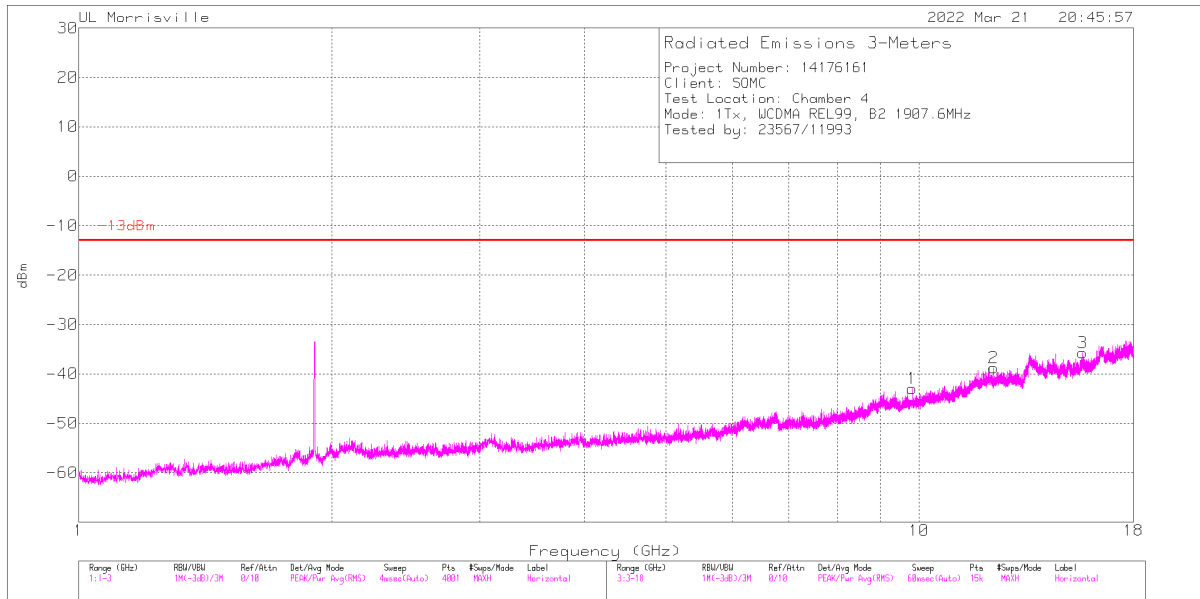
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	9.03	-65.76	Pk	36.1	-25.7	11.8	0	-43.56	-13	-30.56	0-360	200	H
4	9.125	-65.21	Pk	36.3	-26.2	11.8	0	-43.31	-13	-30.31	0-360	200	V
5	11.992	-65.18	Pk	38.6	-24.1	11.8	0	-38.88	-13	-25.88	0-360	300	V
2	12.353	-64.66	Pk	38.8	-23.9	11.8	0	-37.96	-13	-24.96	0-360	100	H
6	16.491	-65.31	Pk	41	-21.2	11.8	0	-33.71	-13	-20.71	0-360	200	V
3	16.578	-65.53	Pk	41.2	-21.2	11.8	0	-33.73	-13	-20.73	0-360	200	H

Pk - Peak detector

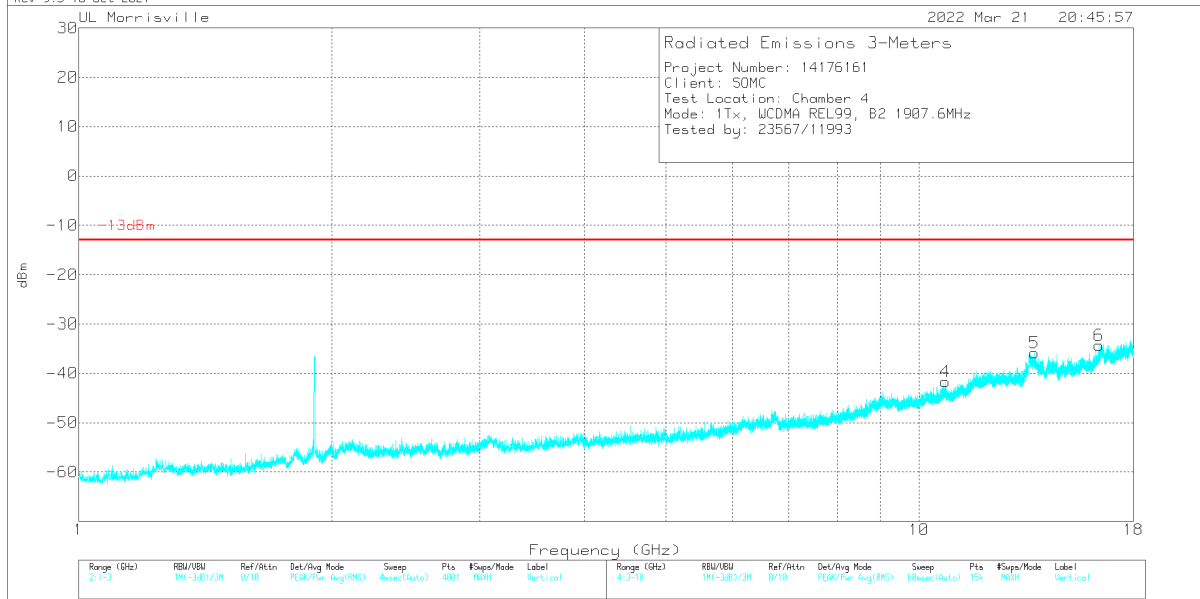


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.318	-66.36	Pk	35.5	-28.8	11.8	0	-47.86	-13	-34.86	0-360	200	H
4	9.324	-66.1	Pk	36.4	-25.9	11.8	0	-43.8	-13	-30.8	0-360	300	V
2	11.649	-65.18	Pk	38.2	-24.1	11.8	0	-39.28	-13	-26.28	0-360	100	H
5	14.459	-66.06	Pk	39.6	-21.9	11.8	0	-36.56	-13	-23.56	0-360	300	V
3	16.48	-64.85	Pk	41	-21.1	11.8	0	-33.15	-13	-20.15	0-360	200	H
6	17.446	-66.2	Pk	41.3	-20.4	11.8	0	-33.5	-13	-20.5	0-360	200	V

Pk - Peak detector



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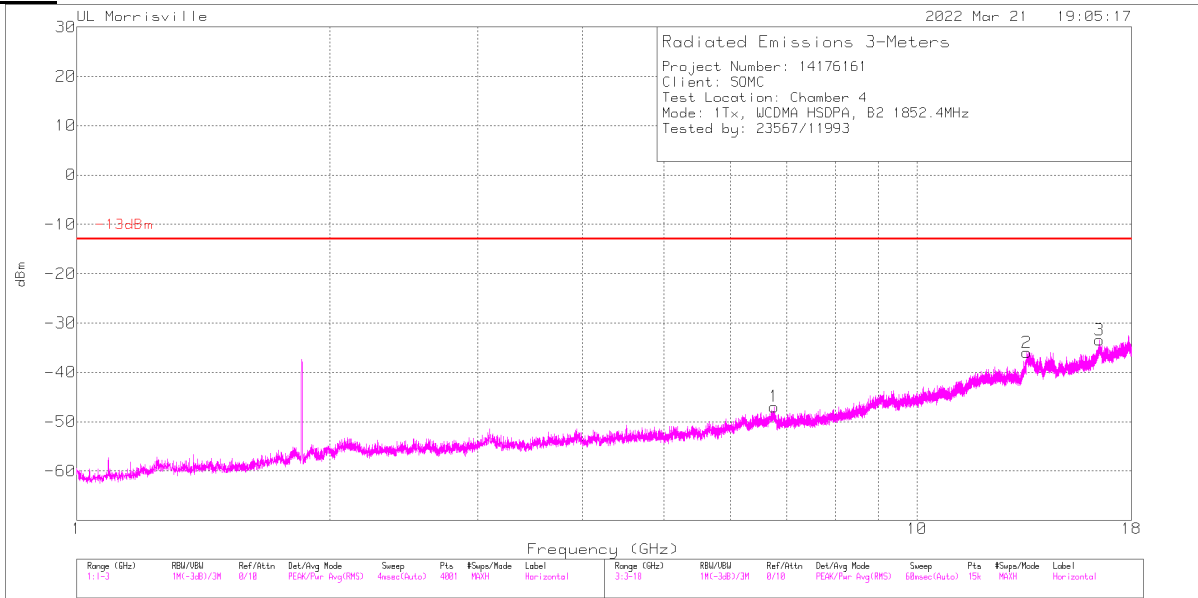


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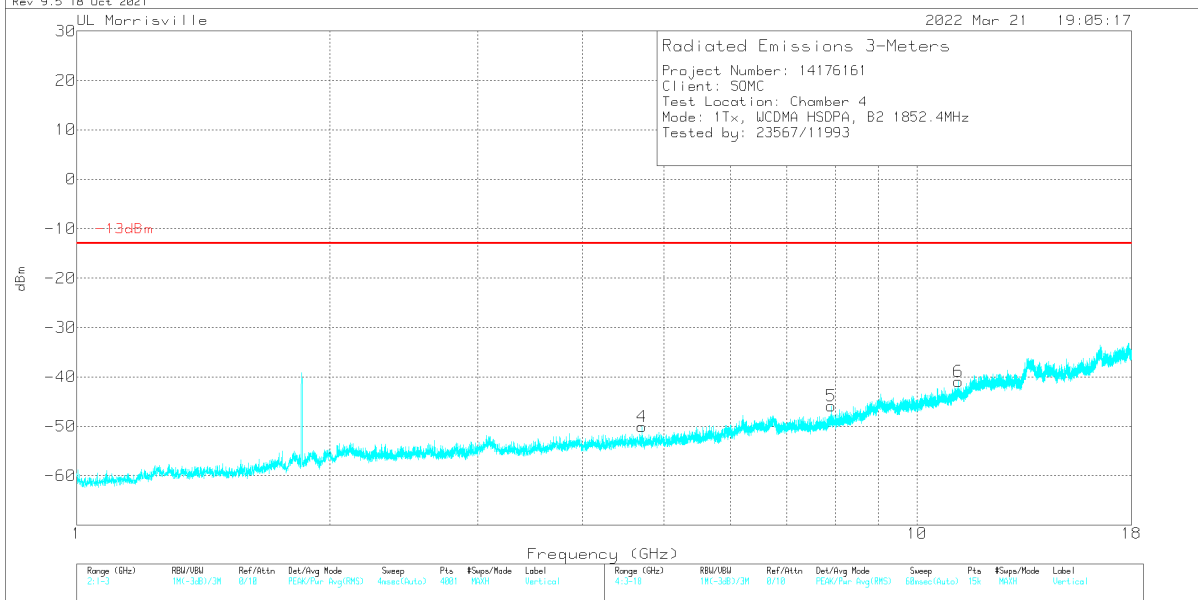
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	9.821	-65.06	Pk	37	-26.7	11.8	0	-42.96	-13	-29.96	0-360	100	H
4	10.743	-65.57	Pk	37.9	-25.8	11.8	0	-41.67	-13	-28.67	0-360	300	V
2	12.277	-65.33	Pk	38.8	-24	11.8	0	-38.73	-13	-25.73	0-360	100	H
5	13.718	-64.22	Pk	38.6	-22	11.8	0	-35.82	-13	-22.82	0-360	300	V
3	15.661	-66.46	Pk	40.2	-21.3	11.8	0	-35.76	-13	-22.76	0-360	100	H
6	16.385	-65.53	Pk	40.8	-21.4	11.8	0	-34.33	-13	-21.33	0-360	300	V

Pk - Peak detector

HSDPA Mode



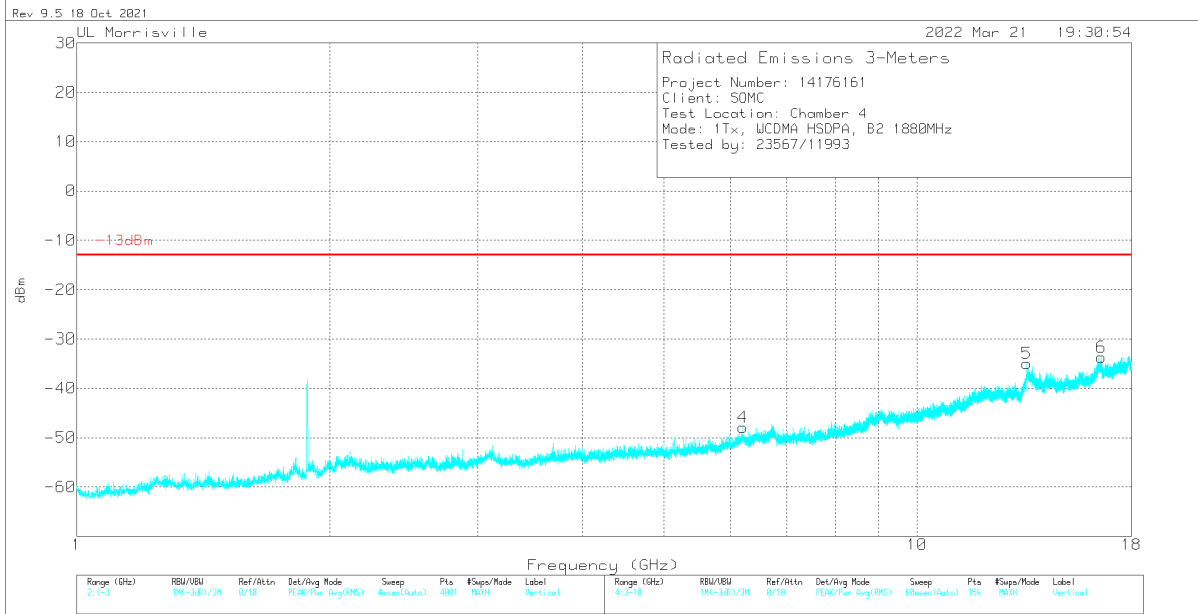
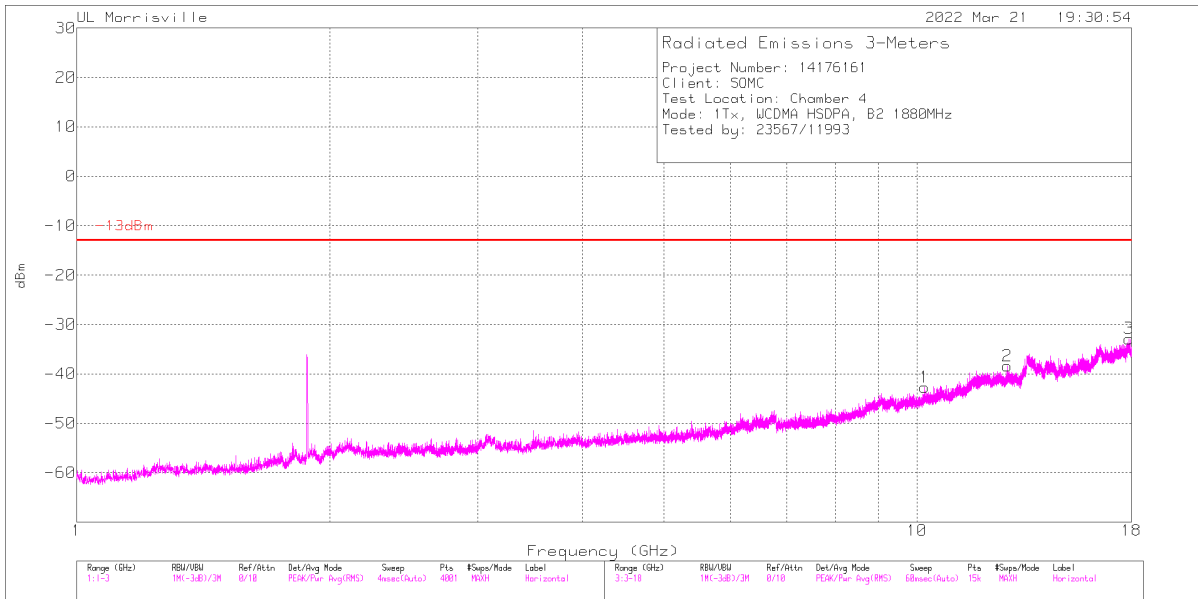
Rev 9.5 18 Oct 2021



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Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	4.71	-63.68	Pk	34	-32.2	11.8	0	-50.08	-13	-37.08	0-360	300	V
1	6.763	-65.55	Pk	35.5	-28.7	11.8	0	-46.95	-13	-33.95	0-360	100	H
5	7.907	-65.02	Pk	35.7	-28.4	11.8	0	-45.92	-13	-32.92	0-360	200	V
6	11.213	-65.88	Pk	37.8	-24.7	11.8	0	-40.98	-13	-27.98	0-360	200	V
2	13.513	-63.94	Pk	38.7	-22.5	11.8	0	-35.94	-13	-22.94	0-360	100	H
3	16.476	-65.1	Pk	41	-21.1	11.8	0	-33.4	-13	-20.4	0-360	100	H

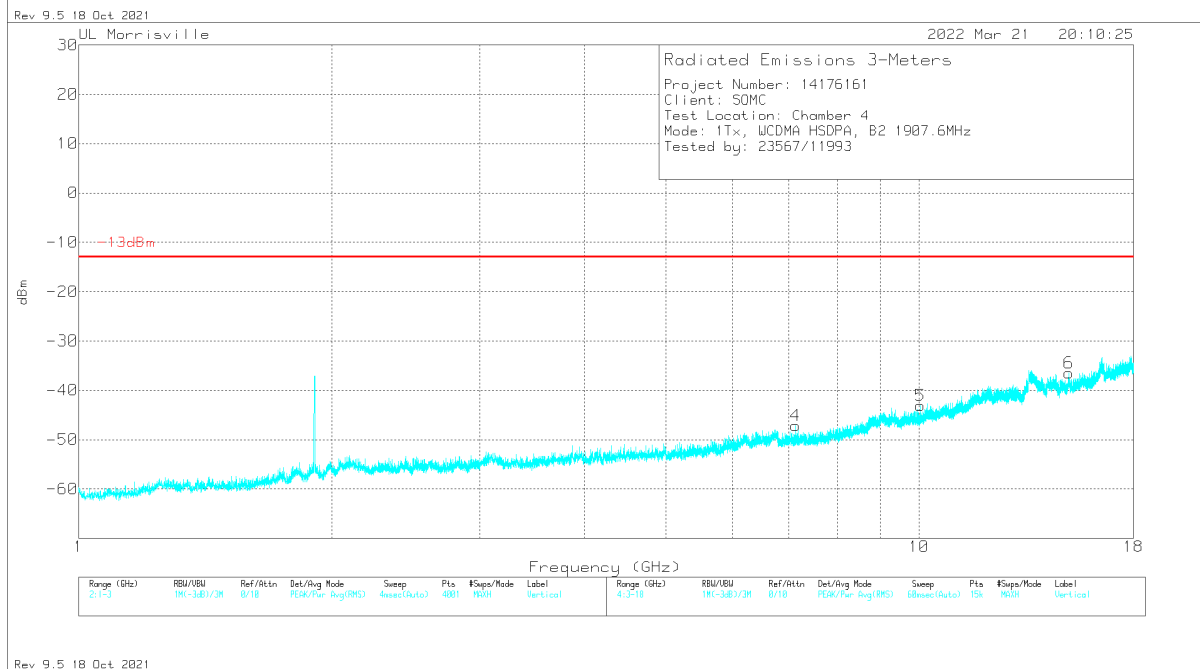
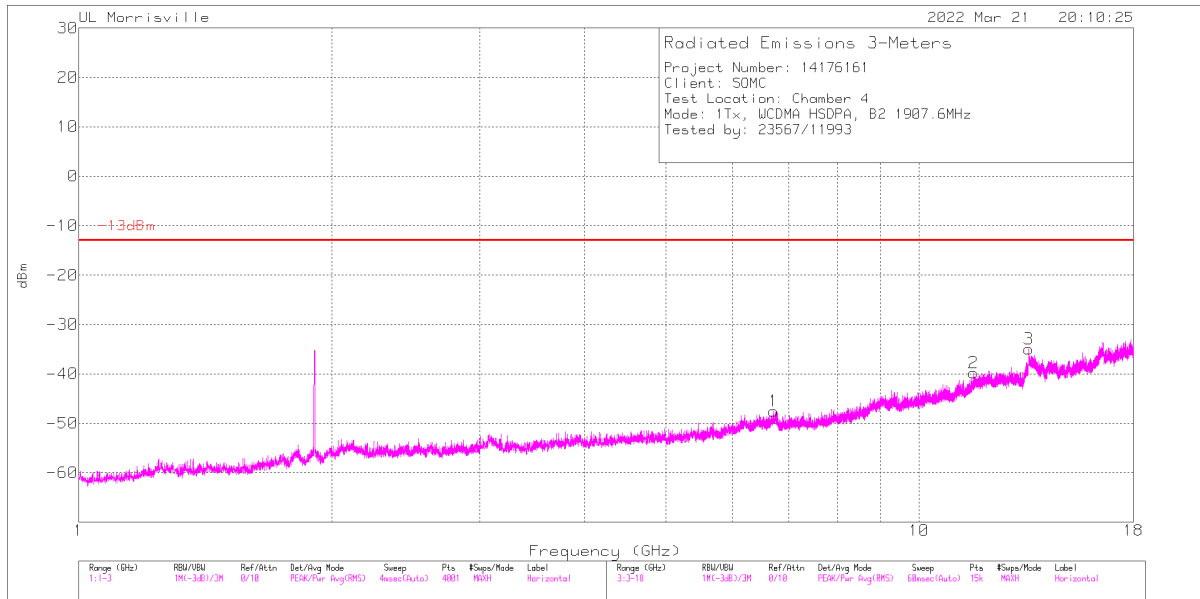
Pk - Peak detector



Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	6.207	-66.5	Pk	35.5	-28.7	11.8	0	-47.9	-13	-34.9	0-360	200	V
1	10.219	-65.48	Pk	37.2	-26.2	11.8	0	-42.68	-13	-29.68	0-360	100	H
2	12.809	-65.9	Pk	39	-23.3	11.8	0	-38.4	-13	-25.4	0-360	100	H
5	13.509	-63	Pk	38.7	-22.5	11.8	0	-35	-13	-22	0-360	300	V
6	16.567	-65.45	Pk	41.2	-21.2	11.8	0	-33.65	-13	-20.65	0-360	200	V
3	17.884	-66.46	Pk	41.3	-19.5	11.8	0	-32.86	-13	-19.86	0-360	200	H

Pk - Peak detector

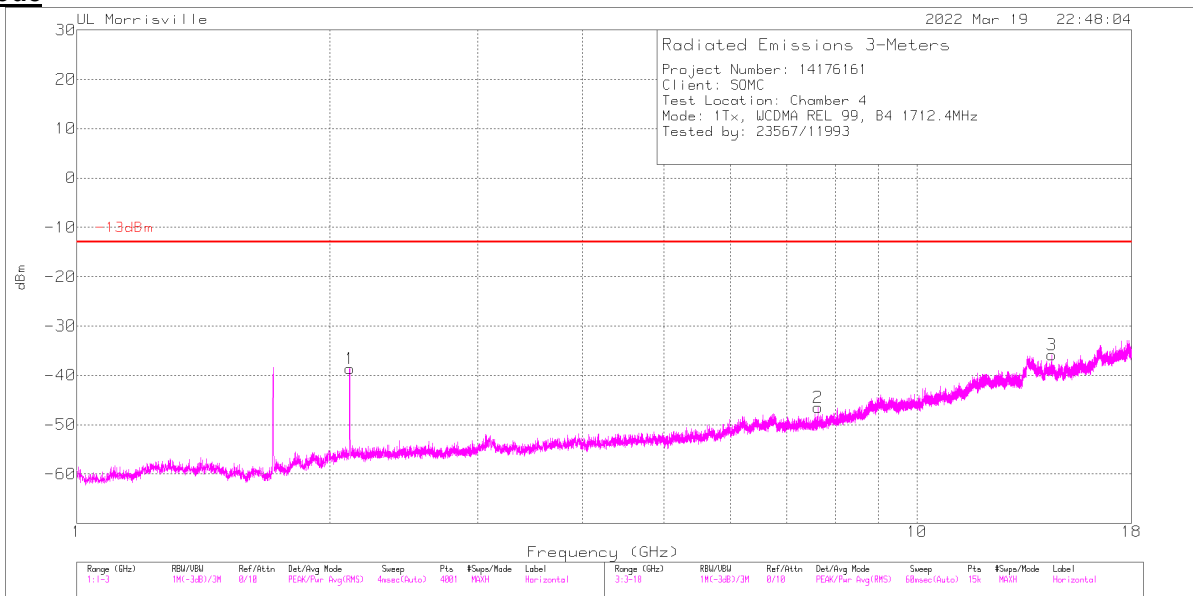


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.717	-66.38	Pk	35.5	-28.5	11.8	0	-47.58	-13	-34.58	0-360	100	H
4	7.128	-65.48	Pk	35.5	-29	11.8	0	-47.18	-13	-34.18	0-360	300	V
5	10.046	-65.4	Pk	37.2	-26.7	11.8	0	-43.1	-13	-30.1	0-360	300	V
2	11.619	-65.44	Pk	38.2	-24.3	11.8	0	-39.74	-13	-26.74	0-360	100	H
3	13.511	-62.93	Pk	38.7	-22.5	11.8	0	-34.93	-13	-21.93	0-360	200	H
6	15.081	-66.71	Pk	39.5	-21.1	11.8	0	-36.51	-13	-23.51	0-360	300	V

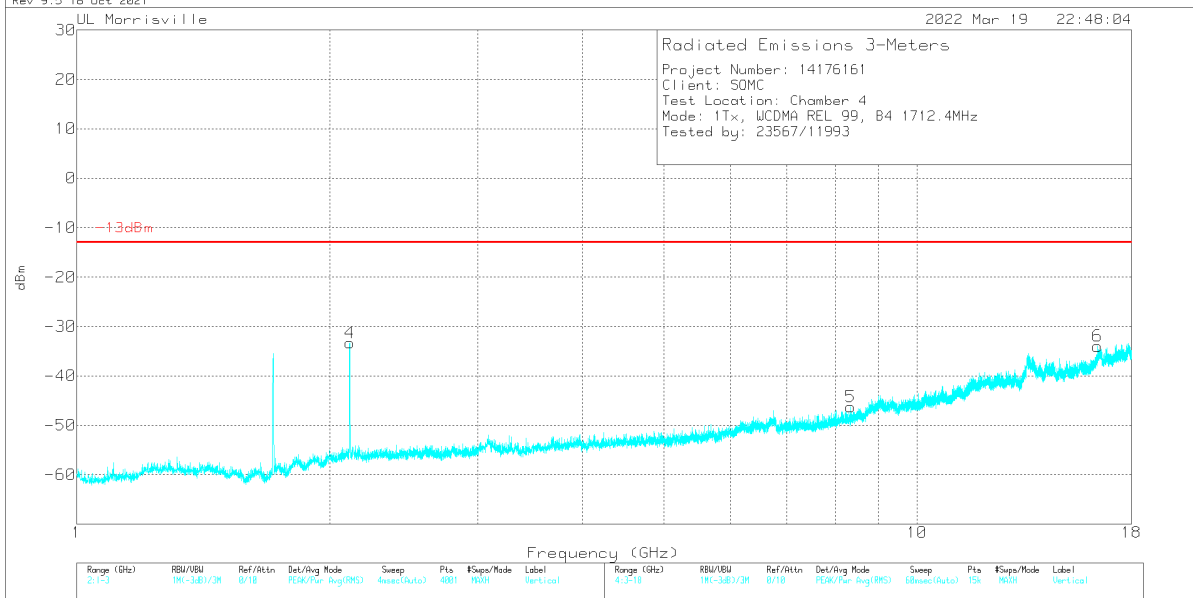
Pk - Peak detector

11.1.4. WCDMA BAND 4

Rel 99 Mode



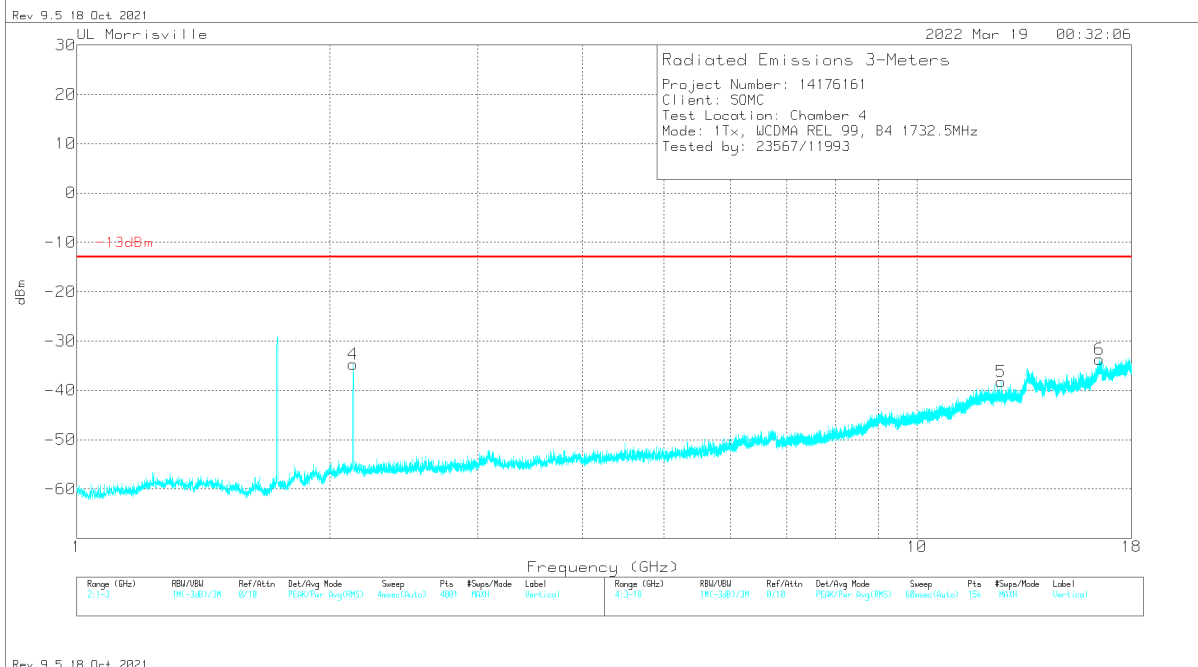
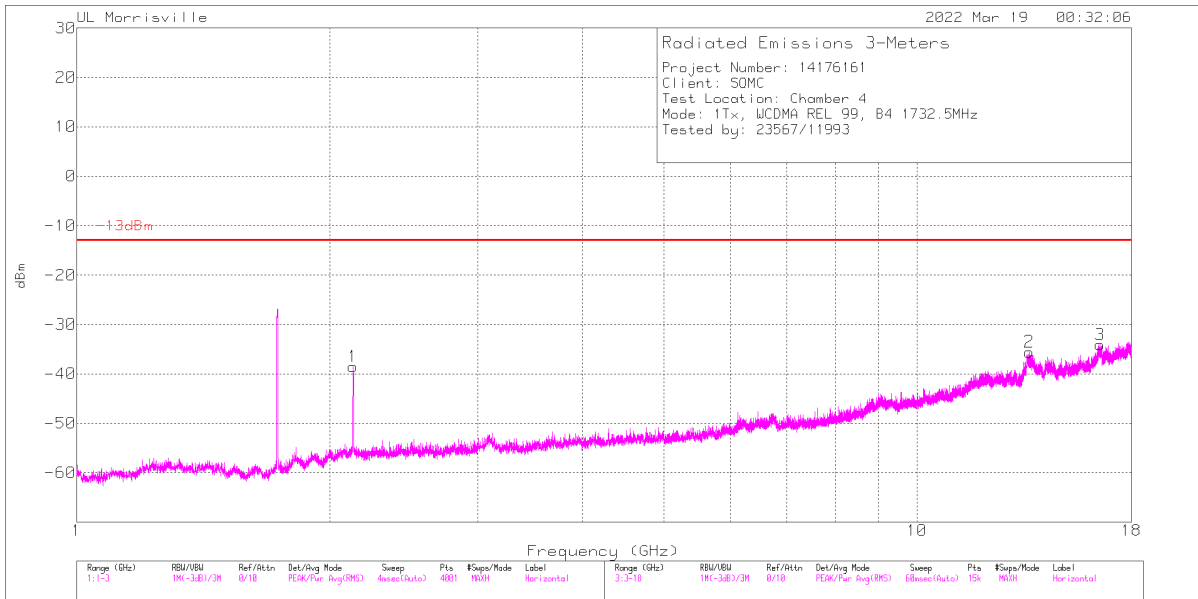
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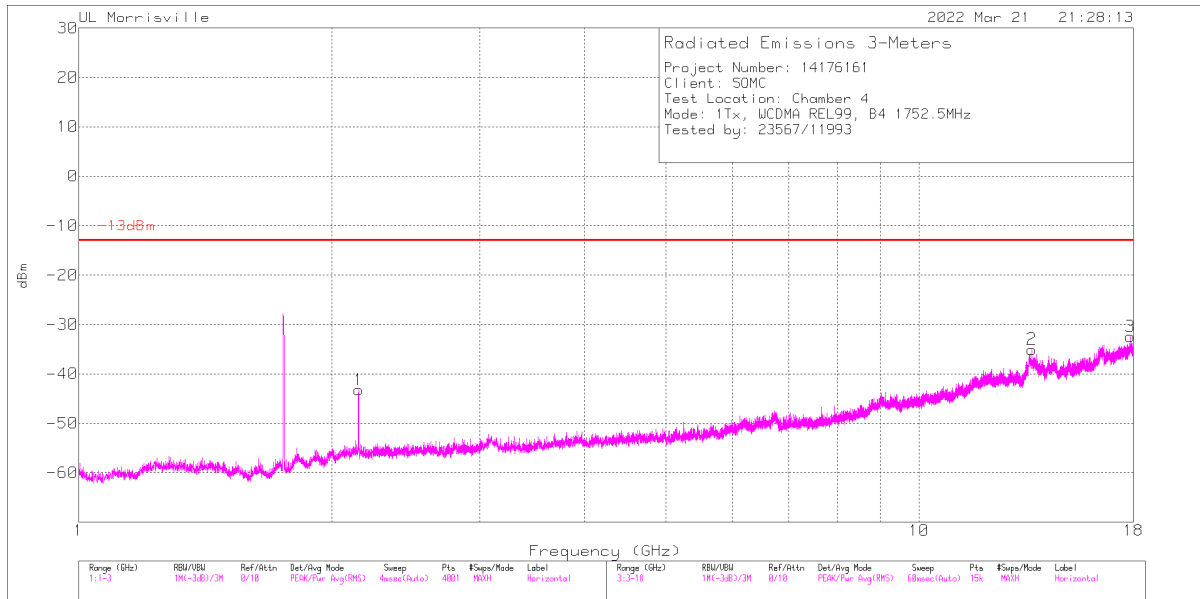
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.1125	-46.37	Pk	31.6	-36.7	11.8	1	-38.67	-13	-25.67	0-360	100	H
4	2.1135	-41.05	Pk	31.6	-36.7	11.8	1	-33.35	-13	-20.35	0-360	100	V
2	7.628	-65.56	Pk	35.7	-28.5	11.8	0	-46.56	-13	-33.56	0-360	200	H
5	8.345	-65.92	Pk	35.7	-27.8	11.8	0	-46.22	-13	-33.22	0-360	300	V
3	14.471	-65.51	Pk	39.7	-21.8	11.8	0	-35.81	-13	-22.81	0-360	200	H
6	16.413	-65.4	Pk	40.9	-21.3	11.8	0	-34	-13	-21	0-360	300	V

Pk - Peak detector

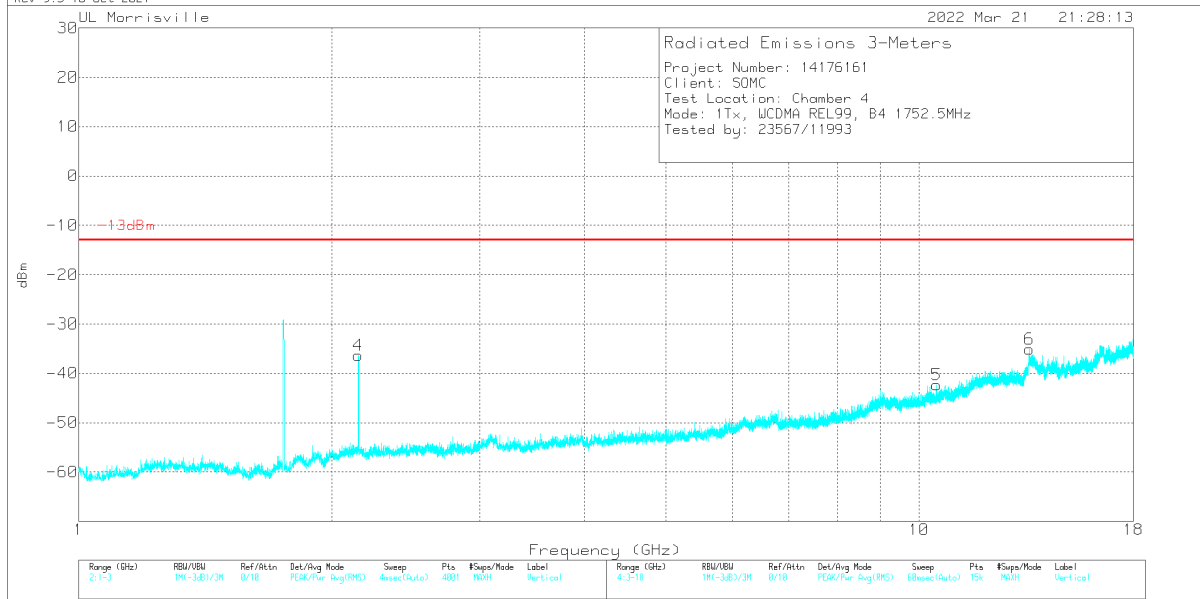


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.132	-42.56	Pk	31.8	-36.7	11.8	1	-34.66	-13	-21.66	0-360	300	V
1	2.133	-46.42	Pk	31.8	-36.7	11.8	1	-38.52	-13	-25.52	0-360	100	H
5	12.589	-64.99	Pk	38.9	-24	11.8	0	-38.29	-13	-25.29	0-360	300	V
2	13.596	-62.83	Pk	38.6	-23.1	11.8	0	-35.53	-13	-22.53	0-360	100	H
6	16.495	-65.38	Pk	41.1	-21.2	11.8	0	-33.68	-13	-20.68	0-360	300	V
3	16.529	-65.79	Pk	41.1	-21.2	11.8	0	-34.09	-13	-21.09	0-360	200	H

Pk - Peak detector



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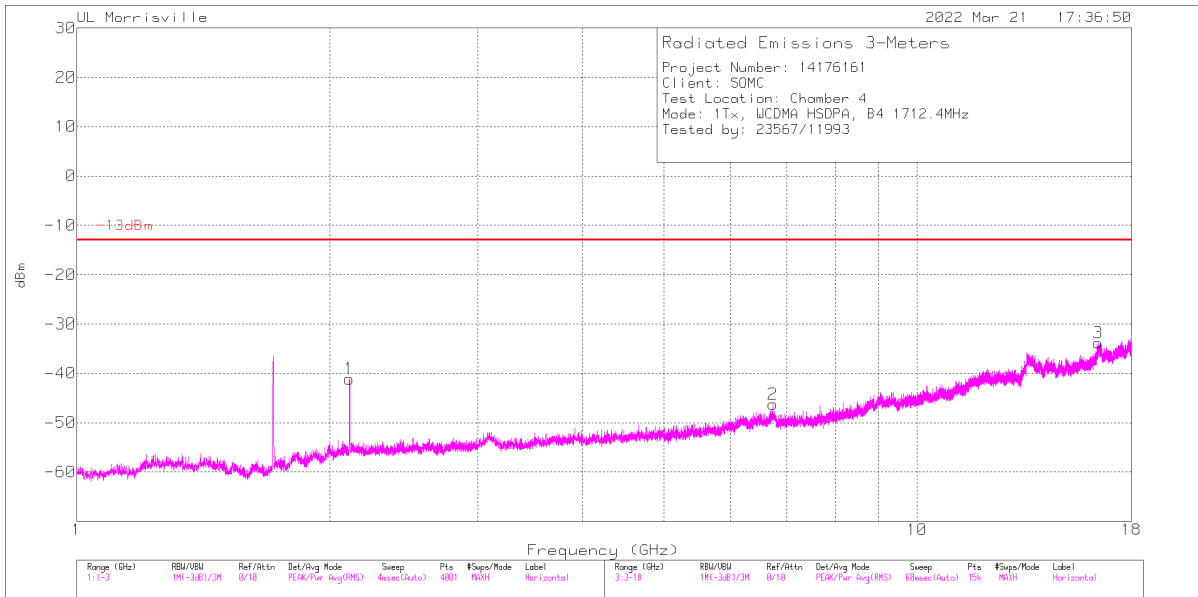


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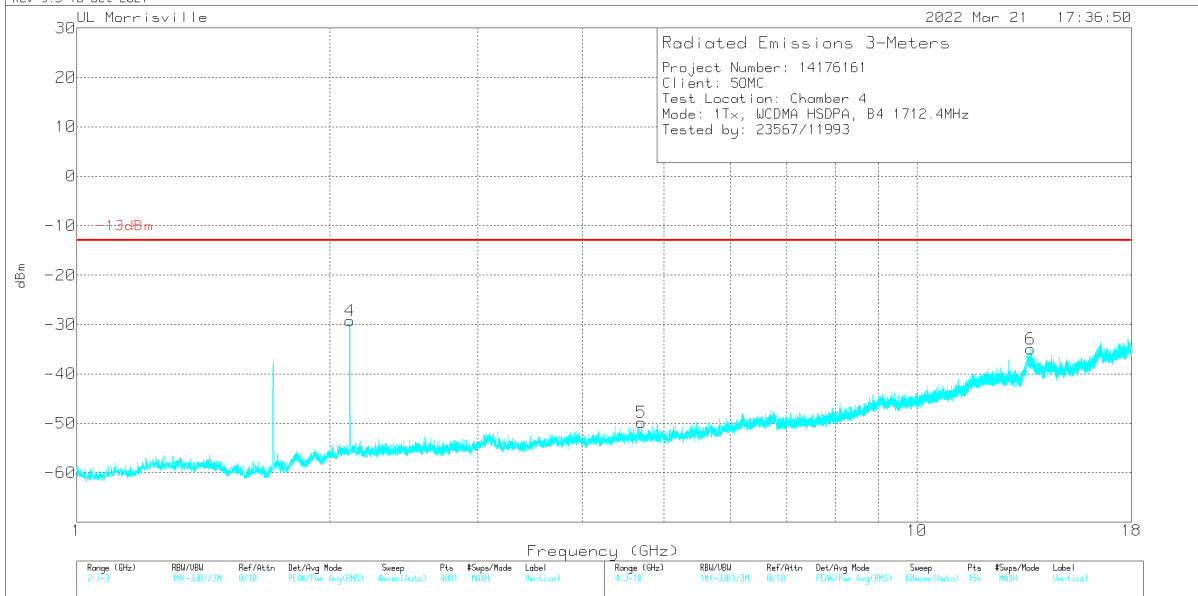
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.1515	-44.13	Pk	31.7	-36.7	11.8	1	-36.33	-13	-23.33	0-360	300	V
1	2.153	-50.99	Pk	31.7	-36.7	11.8	1	-43.19	-13	-30.19	0-360	100	H
5	10.502	-65.57	Pk	37.5	-26	11.8	0	-42.27	-13	-29.27	0-360	300	V
6	13.541	-62.98	Pk	38.7	-22.6	11.8	0	-35.08	-13	-22.08	0-360	300	V
2	13.627	-62.52	Pk	38.6	-22.9	11.8	0	-35.02	-13	-22.02	0-360	100	H
3	17.85	-66.17	Pk	41.3	-19.3	11.8	0	-32.37	-13	-19.37	0-360	100	H

Pk - Peak detector

HSDPA Mode



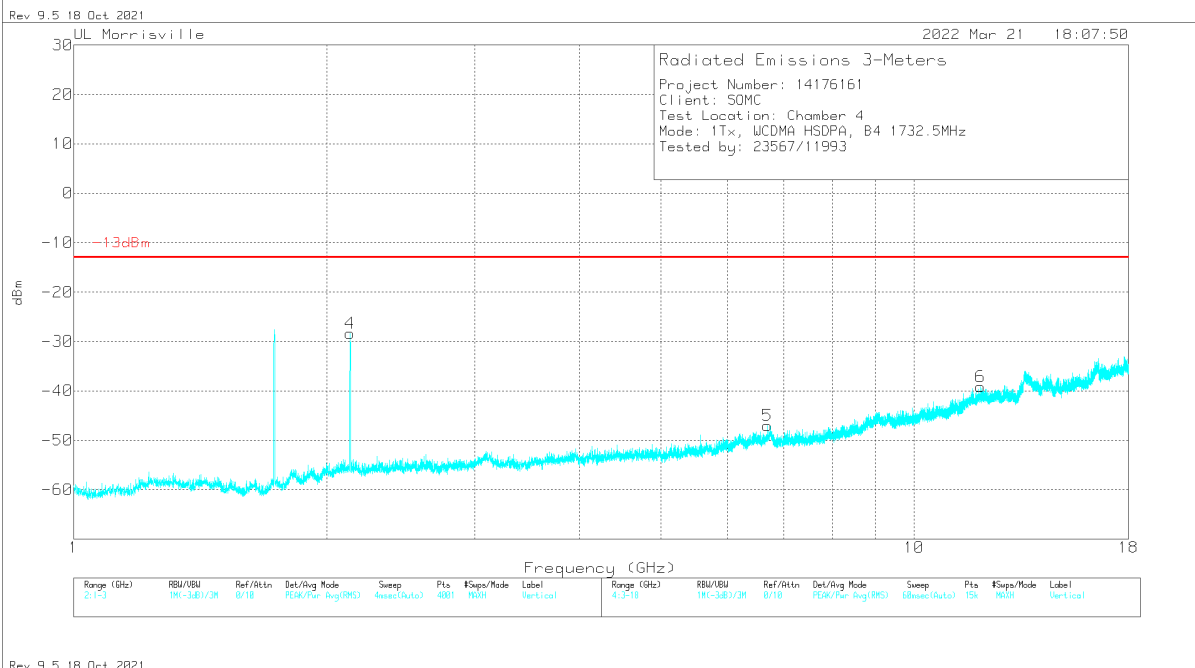
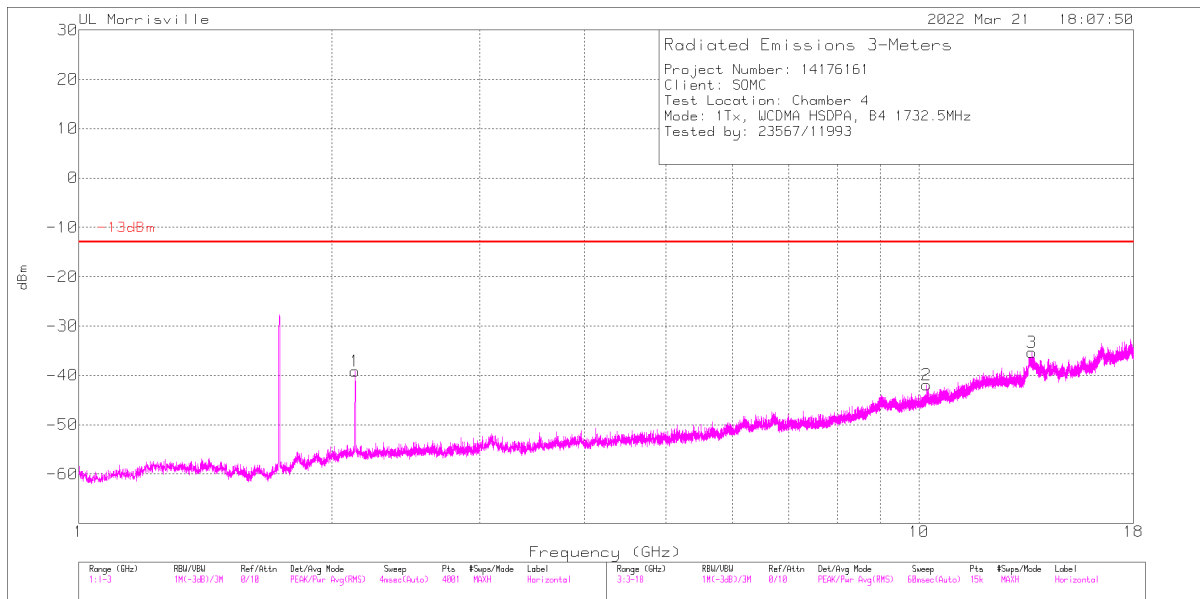
Rev 9.5 18 Oct 2021



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Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.112	-48.81	Pk	31.6	-36.7	11.8	1	-41.11	-13	-28.11	0-360	100	H
4	2.1135	-36.89	Pk	31.6	-36.7	11.8	1	-29.19	-13	-16.19	0-360	300	V
5	4.702	-63.43	Pk	34	-32.2	11.8	0	-49.83	-13	-36.83	0-360	300	V
2	6.74	-65	Pk	35.5	-28.5	11.8	0	-46.2	-13	-33.2	0-360	200	H
6	13.645	-62.4	Pk	38.6	-22.9	11.8	0	-34.9	-13	-21.9	0-360	300	V
3	16.439	-65.24	Pk	40.9	-21.3	11.8	0	-33.84	-13	-20.84	0-360	100	H

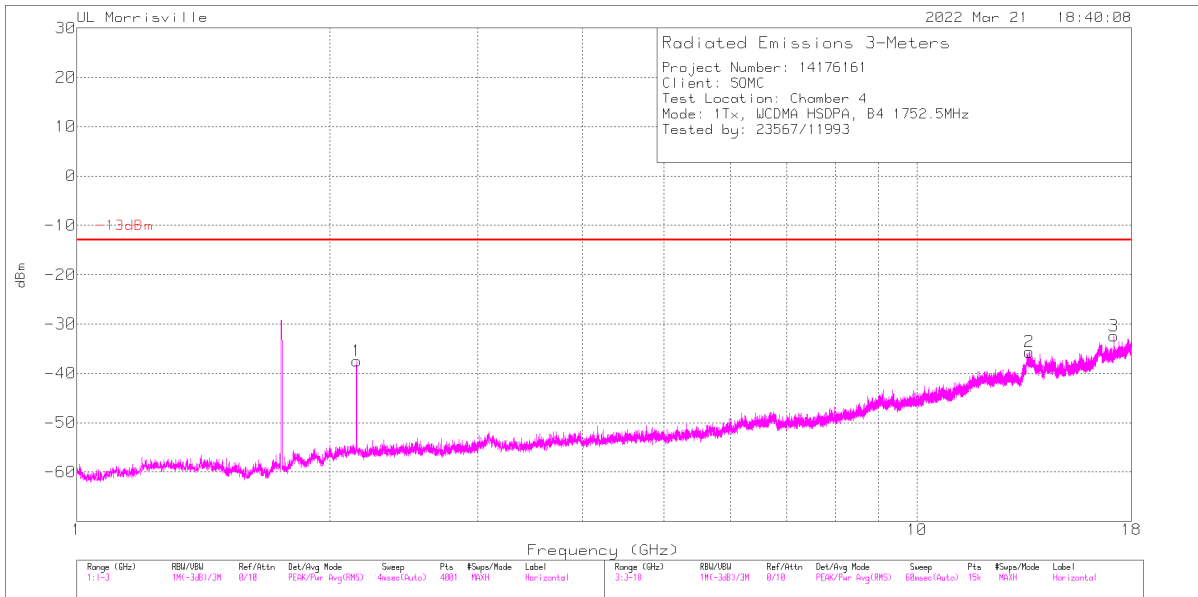
Pk - Peak detector



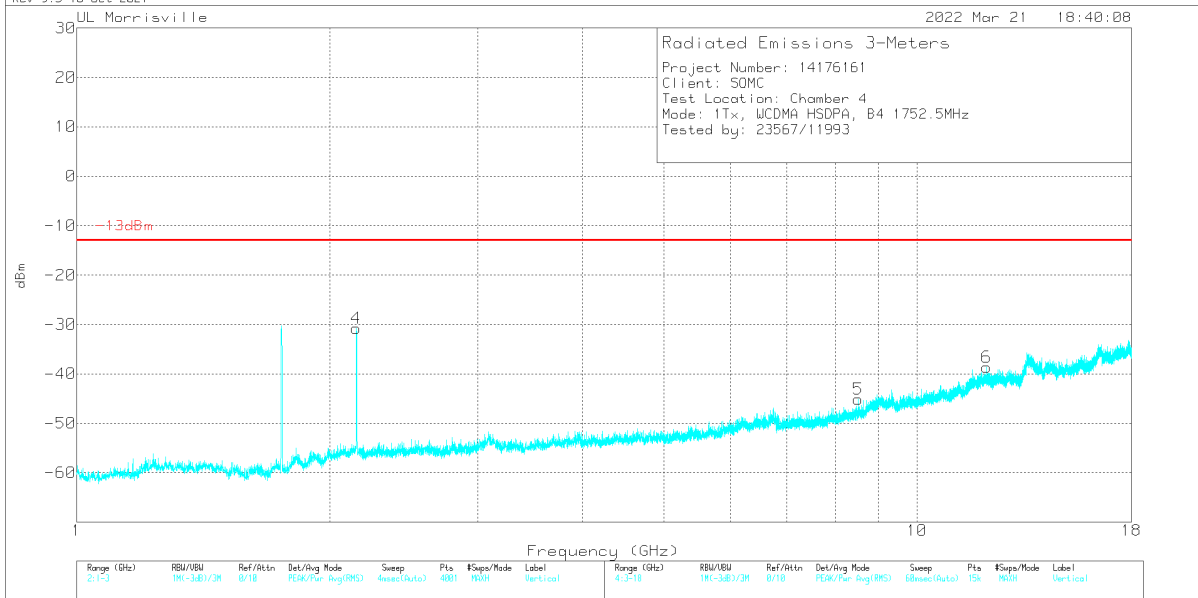
Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.1325	-46.99	Pk	31.8	-36.7	11.8	1	-39.09	-13	-26.09	0-360	100	H
4	2.1335	-36.29	Pk	31.8	-36.7	11.8	1	-28.39	-13	-15.39	0-360	300	V
5	6.695	-65.44	Pk	35.5	-28.9	11.8	0	-47.04	-13	-34.04	0-360	200	V
2	10.208	-64.68	Pk	37.2	-26.3	11.8	0	-41.98	-13	-28.98	0-360	200	H
6	11.994	-65.41	Pk	38.6	-24.1	11.8	0	-39.11	-13	-26.11	0-360	300	V
3	13.628	-62.89	Pk	38.6	-22.9	11.8	0	-35.39	-13	-22.39	0-360	100	H

Pk - Peak detector



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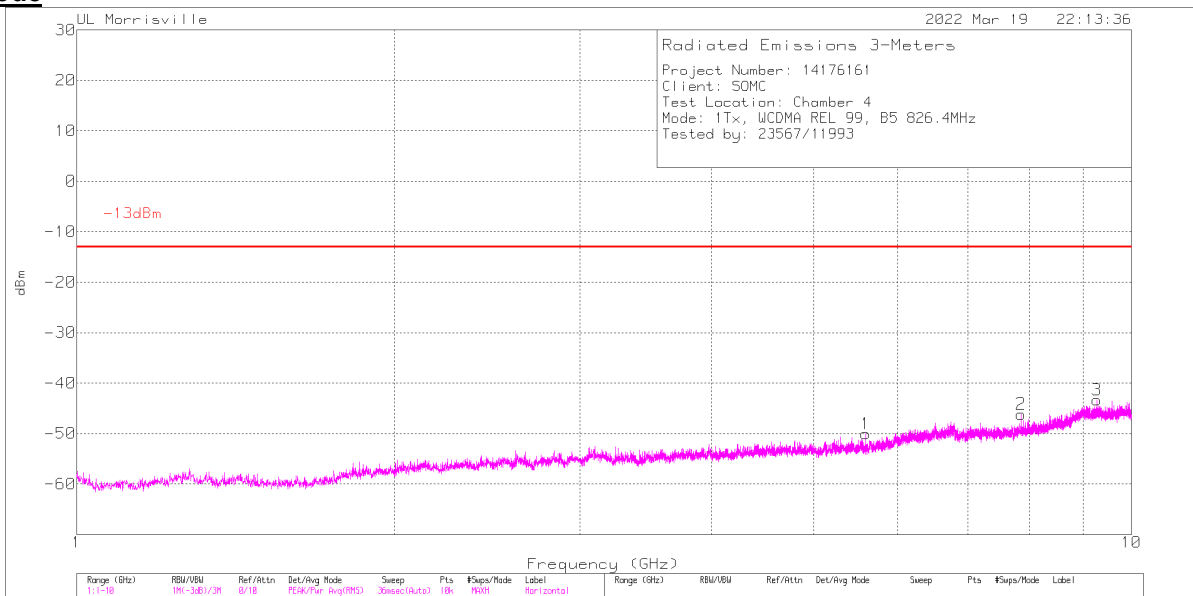
Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.152	-38.59	Pk	31.7	-36.7	11.8	1	-30.79	-13	-17.79	0-360	300	V
1	2.154	-45.27	Pk	31.7	-36.7	11.8	1	-37.47	-13	-24.47	0-360	100	H
5	8.506	-65.5	Pk	35.7	-27.1	11.8	0	-45.1	-13	-32.1	0-360	200	V
6	12.113	-65.29	Pk	38.7	-23.9	11.8	0	-38.69	-13	-25.69	0-360	300	V
2	13.612	-63.05	Pk	38.6	-23	11.8	0	-35.65	-13	-22.65	0-360	100	H
3	17.168	-64.82	Pk	41.2	-20.6	11.8	0	-32.42	-13	-19.42	0-360	100	H

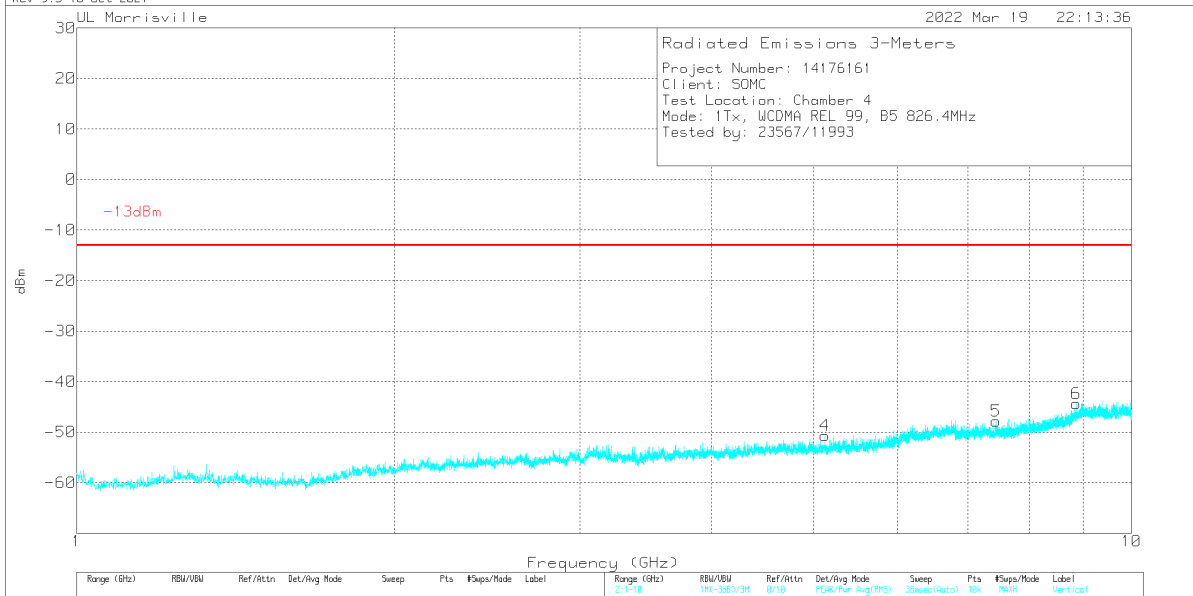
Pk - Peak detector

11.1.5. WCDMA BAND 5

Rel 99 Mode

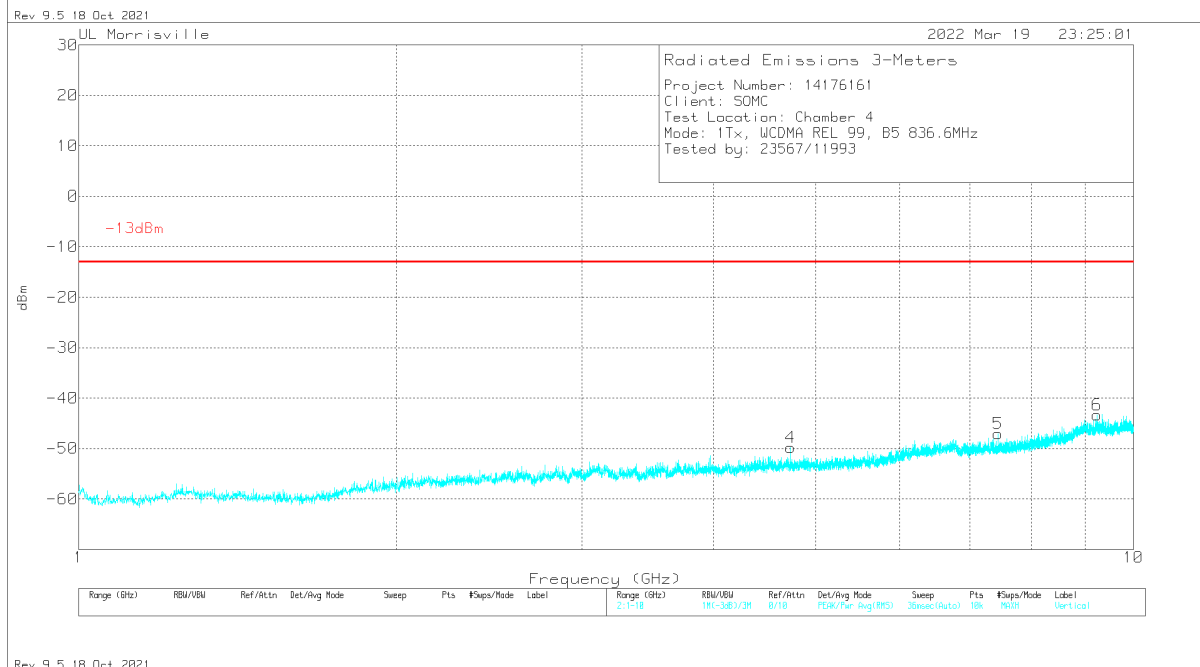
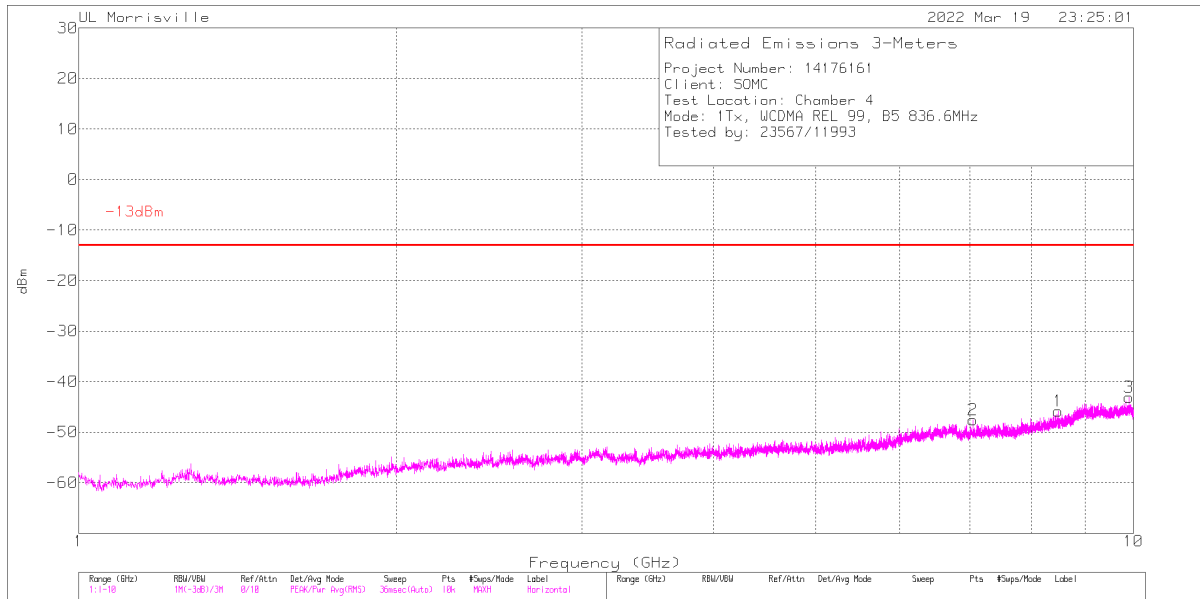


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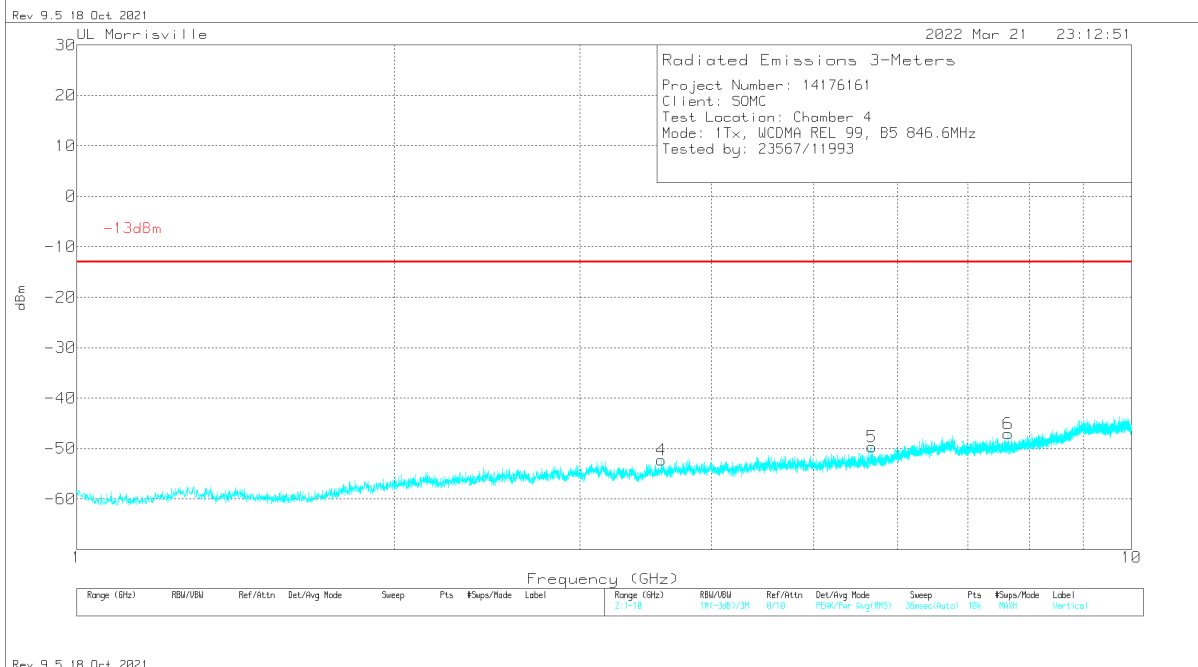
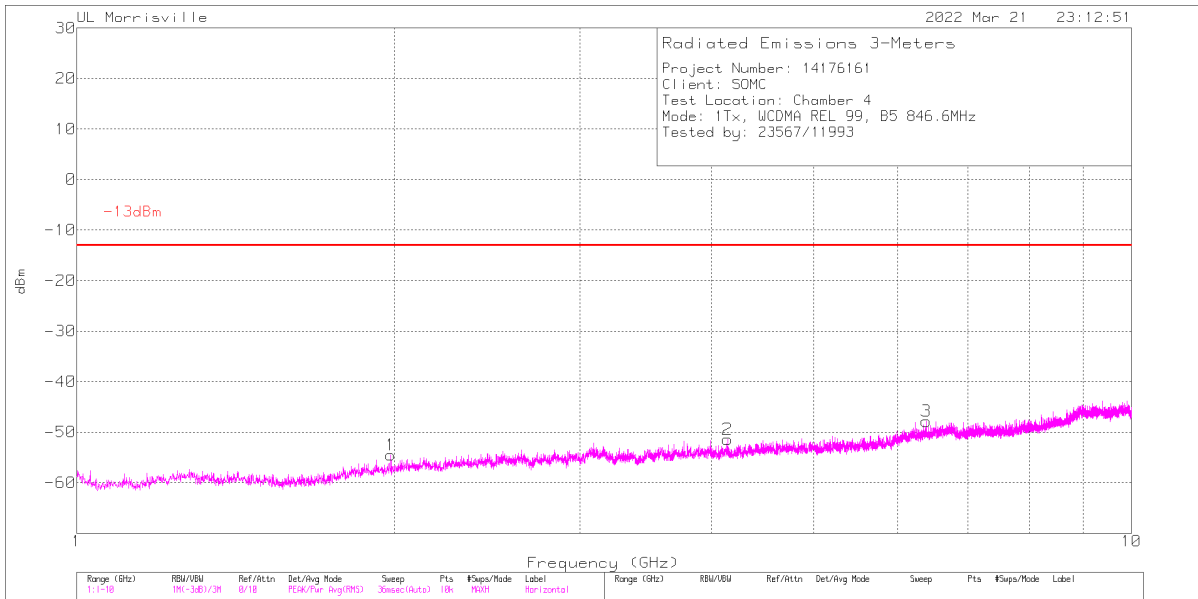
Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	5.1211	-64.38	Pk	34	-32.5	.4	11.8	-50.68	-13	-37.68	0-360	300	V
1	5.5963	-64.34	Pk	34.4	-32.2	.3	11.8	-50.04	-13	-37.04	0-360	100	H
5	7.4413	-65.98	Pk	35.4	-29.5	.5	11.8	-47.78	-13	-34.78	0-360	300	V
2	7.8634	-64.94	Pk	35.7	-29.1	.4	11.8	-46.14	-13	-33.14	0-360	100	H
6	8.8633	-65.48	Pk	36	-27.1	.4	11.8	-44.38	-13	-31.38	0-360	300	V
3	9.2782	-65.03	Pk	36.3	-26.9	.5	11.8	-43.33	-13	-30.33	0-360	100	H



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	4.7323	-63.21	Pk	34	-32.7	.3	11.8	-49.81	-13	-36.81	0-360	200	V
2	7.0453	-66.03	Pk	35.4	-29.3	.6	11.8	-47.53	-13	-34.53	0-360	200	H
5	7.4404	-65.26	Pk	35.4	-29.5	.5	11.8	-47.06	-13	-34.06	0-360	300	V
1	8.4808	-65.87	Pk	35.7	-27.8	.4	11.8	-45.77	-13	-32.77	0-360	100	H
6	9.2314	-65.3	Pk	36.3	-26.9	.8	11.8	-43.3	-13	-30.3	0-360	300	V
3	9.8983	-65.61	Pk	37.1	-27.3	.9	11.8	-43.11	-13	-30.11	0-360	100	H

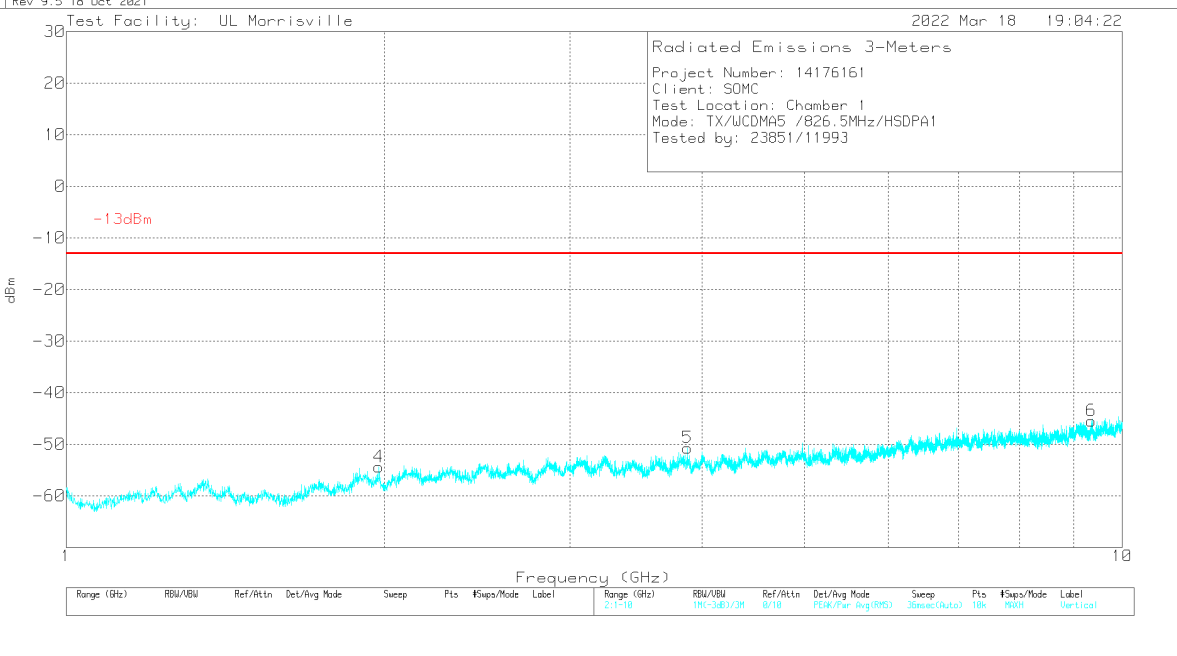
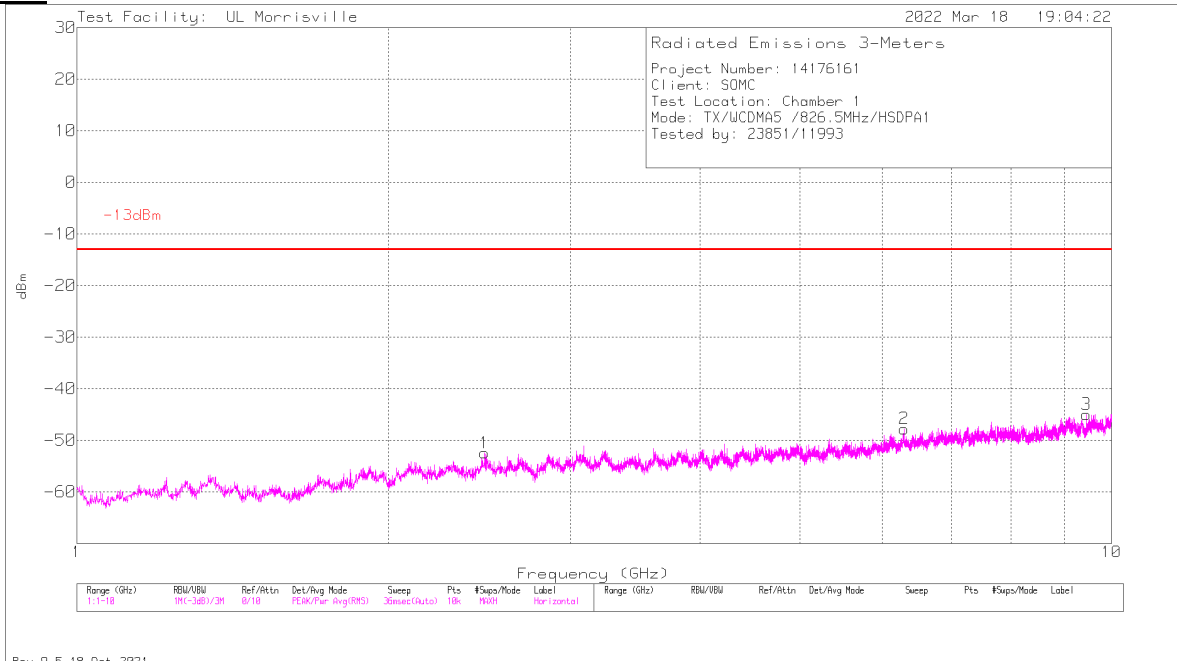
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.9855	-60.81	Pk	30.8	-36.7	.4	11.8	-54.51	-13	-41.51	0-360	200	H
4	3.5857	-62.92	Pk	33	-34.9	.7	11.8	-52.32	-13	-39.32	0-360	200	V
2	4.1401	-63.75	Pk	33.4	-33.3	.4	11.8	-51.45	-13	-38.45	0-360	200	H
5	5.6719	-64.52	Pk	34.5	-32	.5	11.8	-49.72	-13	-36.72	0-360	200	V
3	6.3883	-65.67	Pk	35.4	-30.2	.8	11.8	-47.87	-13	-34.87	0-360	200	H
6	7.642	-65.74	Pk	35.7	-29.3	.5	11.8	-47.04	-13	-34.04	0-360	200	V

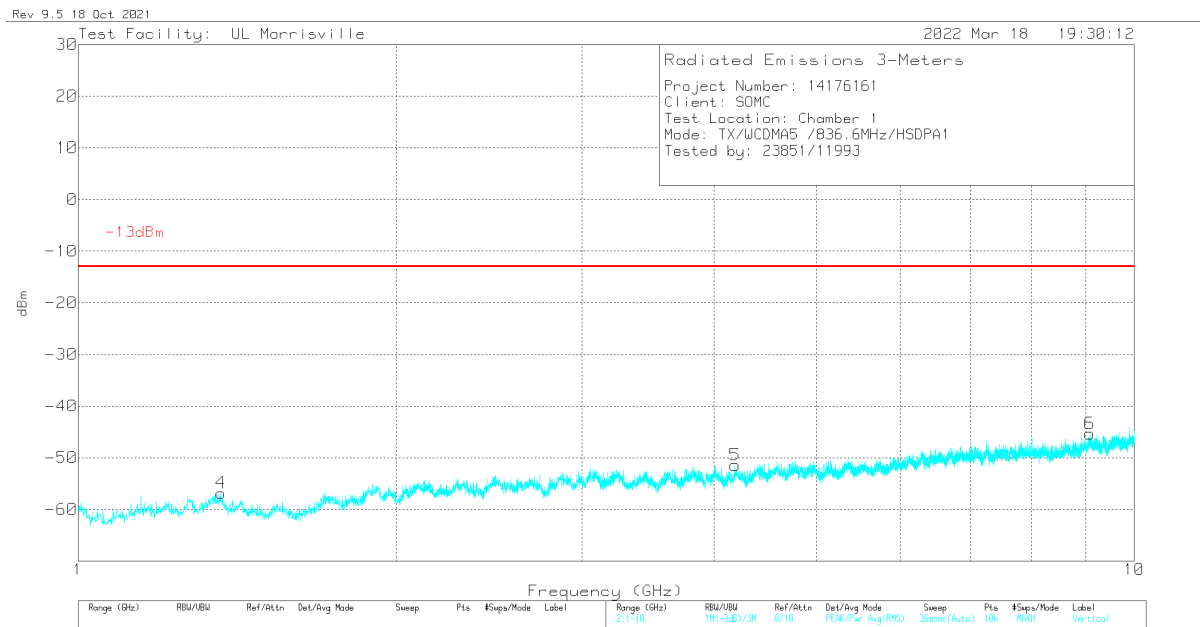
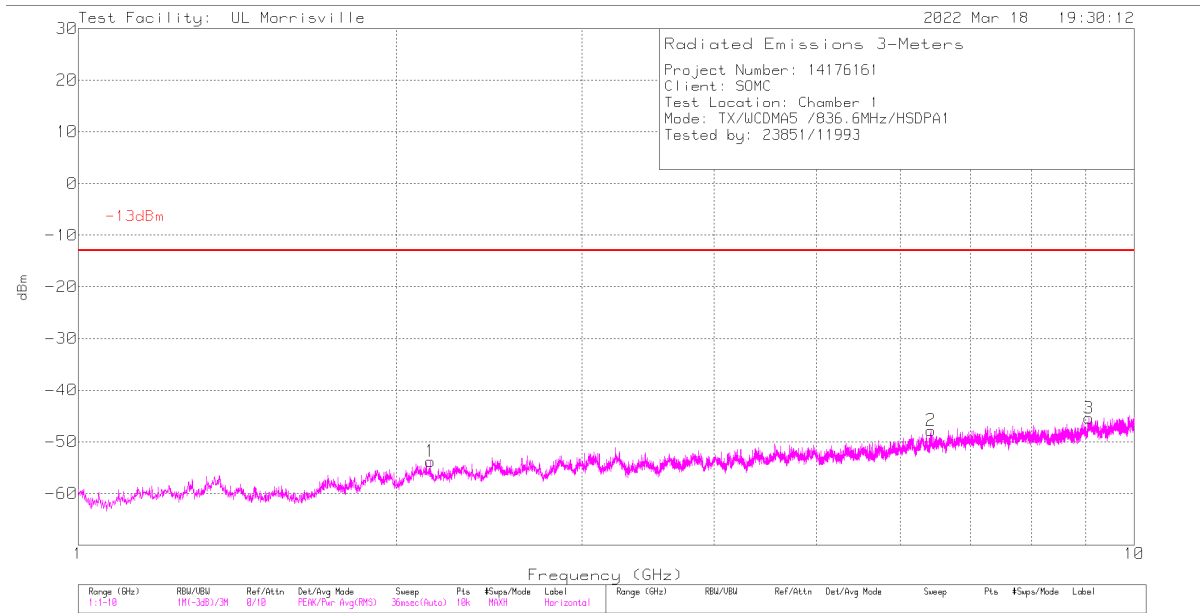
Pk - Peak detector

HSDPA Mode



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	1.9774	-62.88	Pk	31.2	-34.8	.3	11.8	-54.38	-13	-41.38	0-360	101	V
1	2.4787	-62.93	Pk	32.3	-34	.4	11.8	-52.43	-13	-39.43	0-360	299	H
5	3.8746	-63.27	Pk	33.4	-33.1	.5	11.8	-50.67	-13	-37.67	0-360	300	V
2	6.3055	-64.55	Pk	35.4	-31	.6	11.8	-47.75	-13	-34.75	0-360	200	H
6	9.352	-65.73	Pk	36.3	-28.6	.8	11.8	-45.43	-13	-32.43	0-360	300	V
3	9.4591	-64.99	Pk	36.4	-28.9	.7	11.8	-44.99	-13	-31.99	0-360	200	H

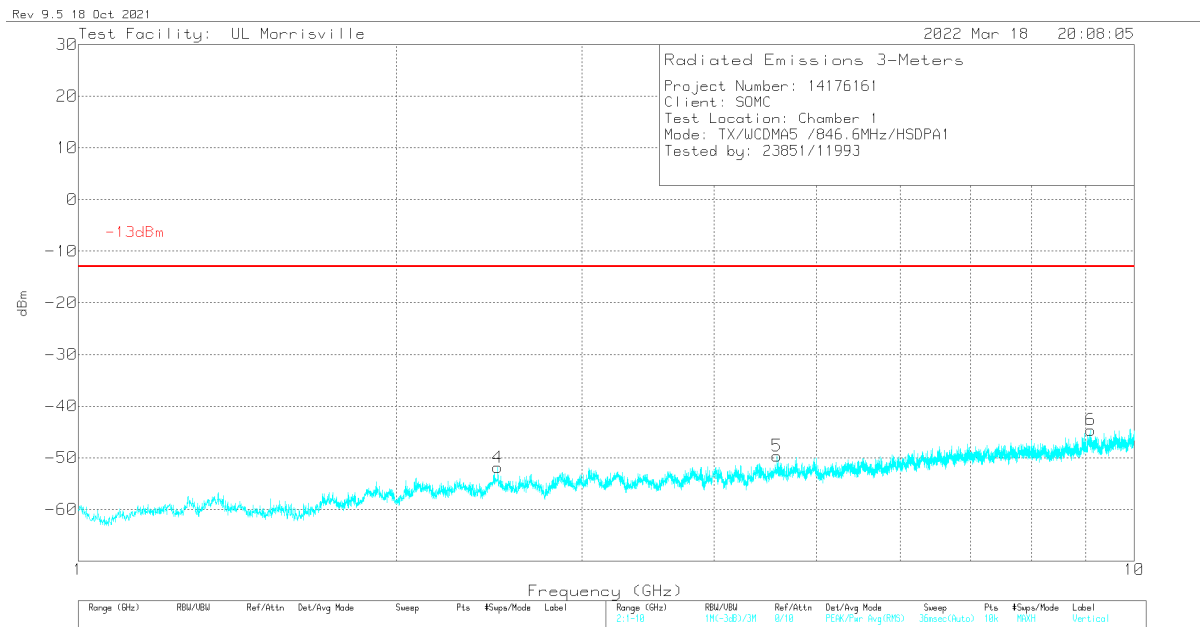
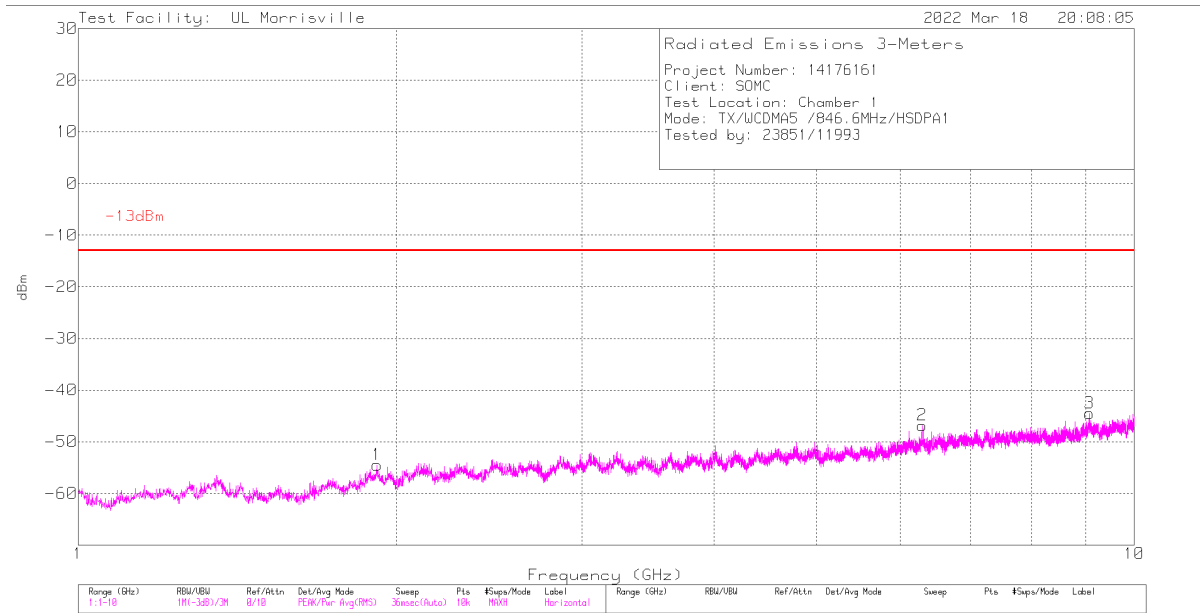
Pk - Peak detector



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

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

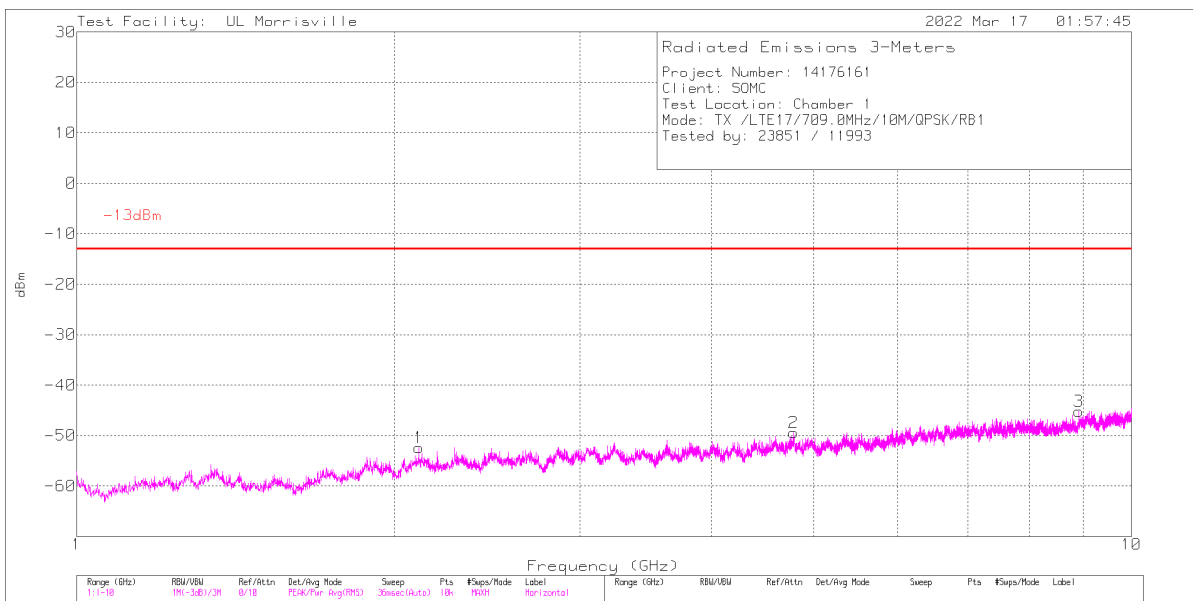
11.1.6. LTE17

LIMITS

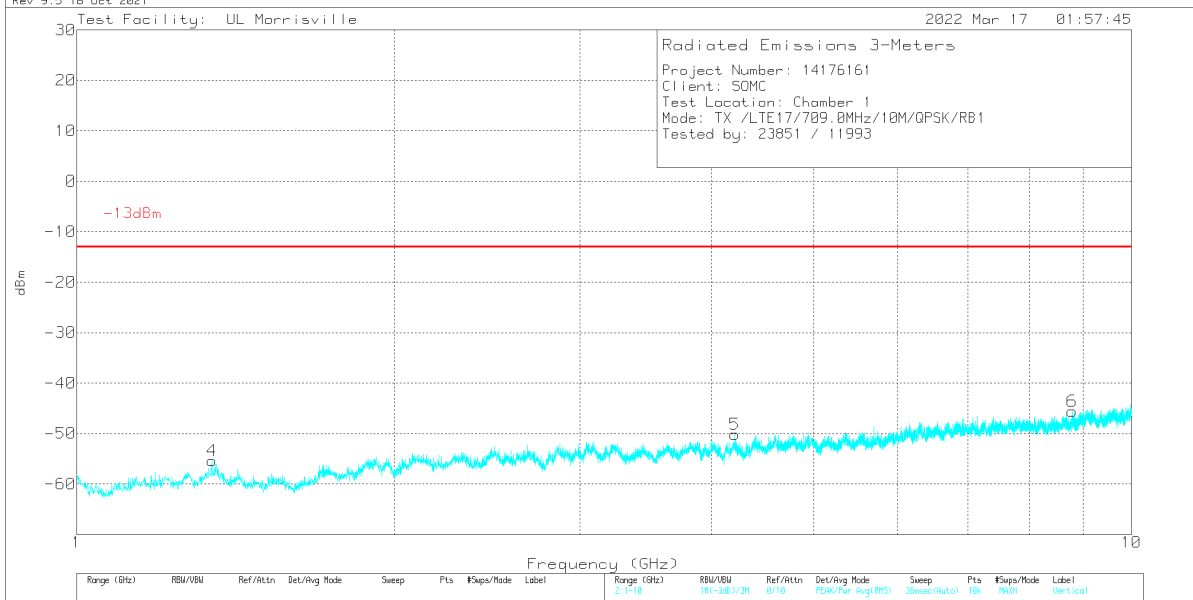
FCC: §27.53 (g)

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)



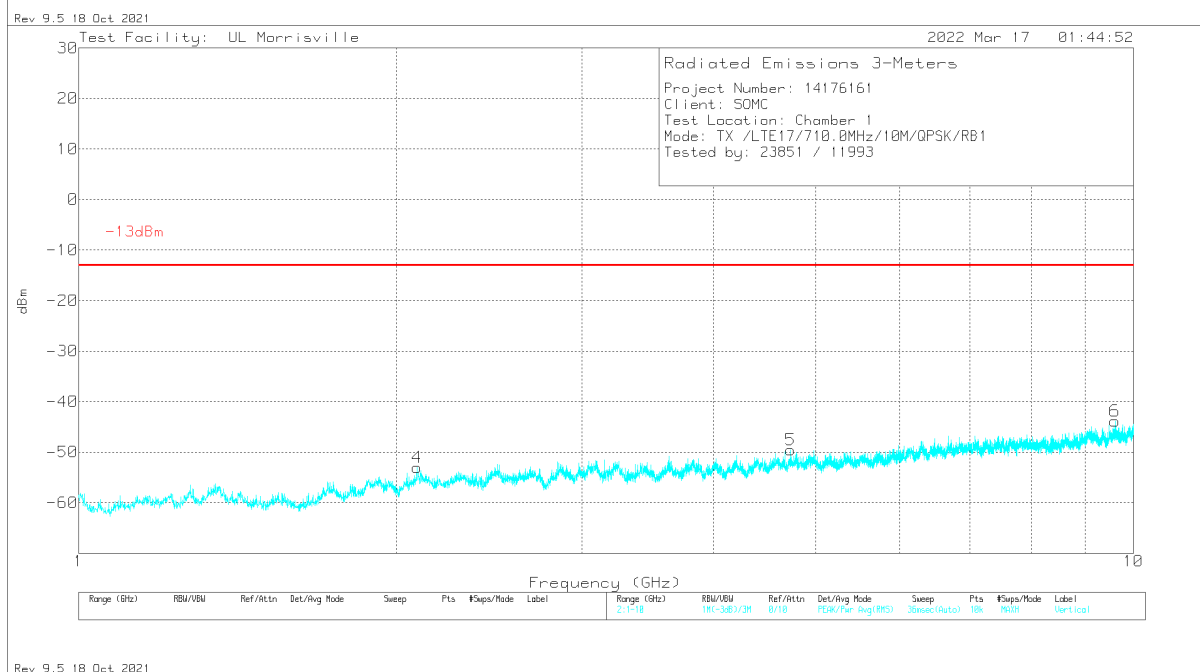
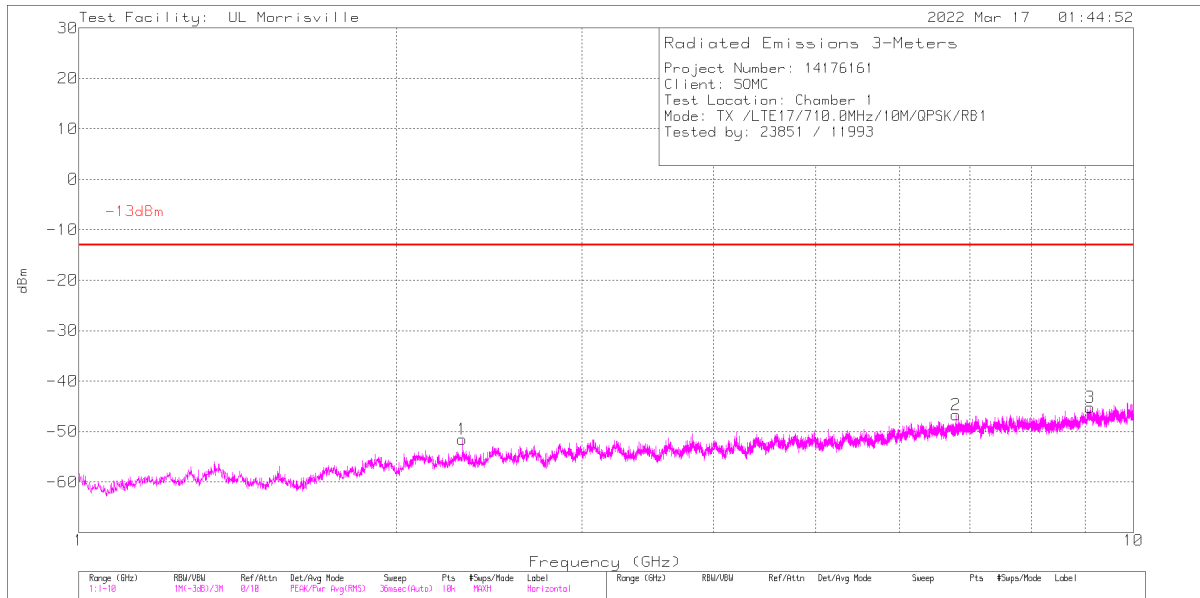
Rev 9.5 18 Oct 2021



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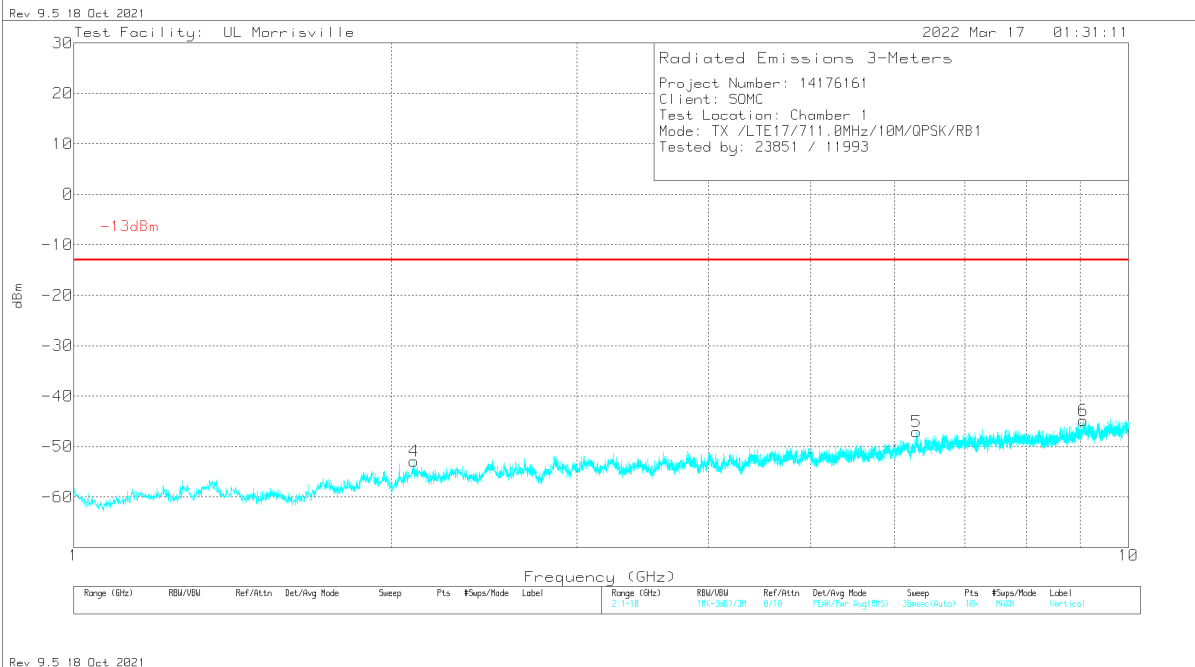
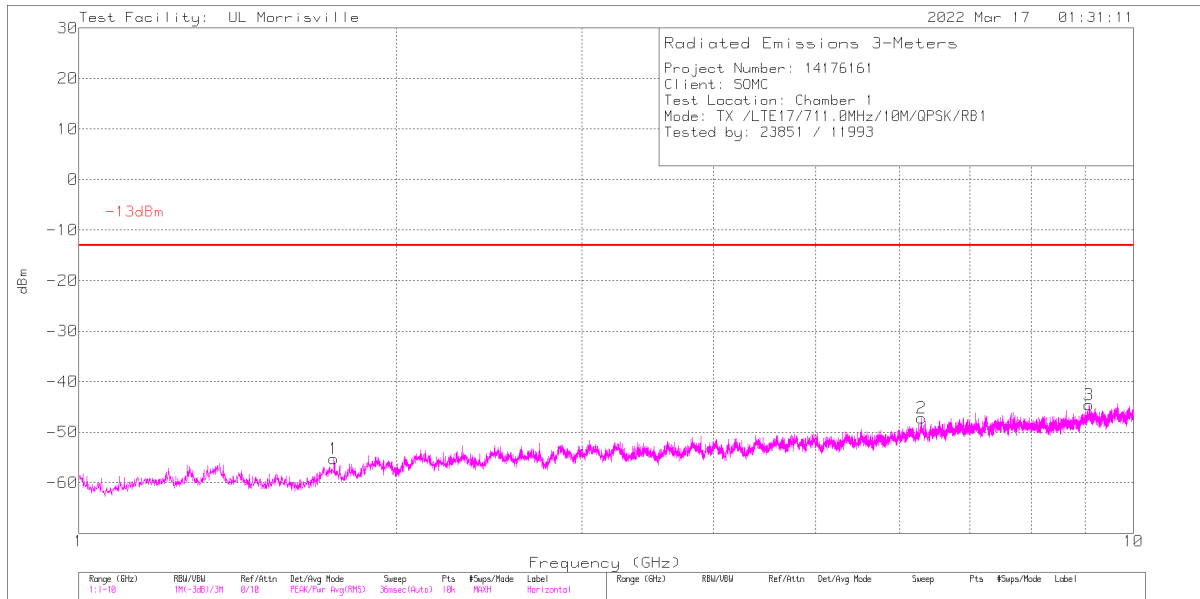
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.3429	-61.24	Pk	29.4	-36.3	.9	11.8	-55.44	-13	-42.44	0-360	101	V
1	2.1106	-61.52	Pk	31.8	-34.9	.4	11.8	-52.42	-13	-39.42	0-360	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



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

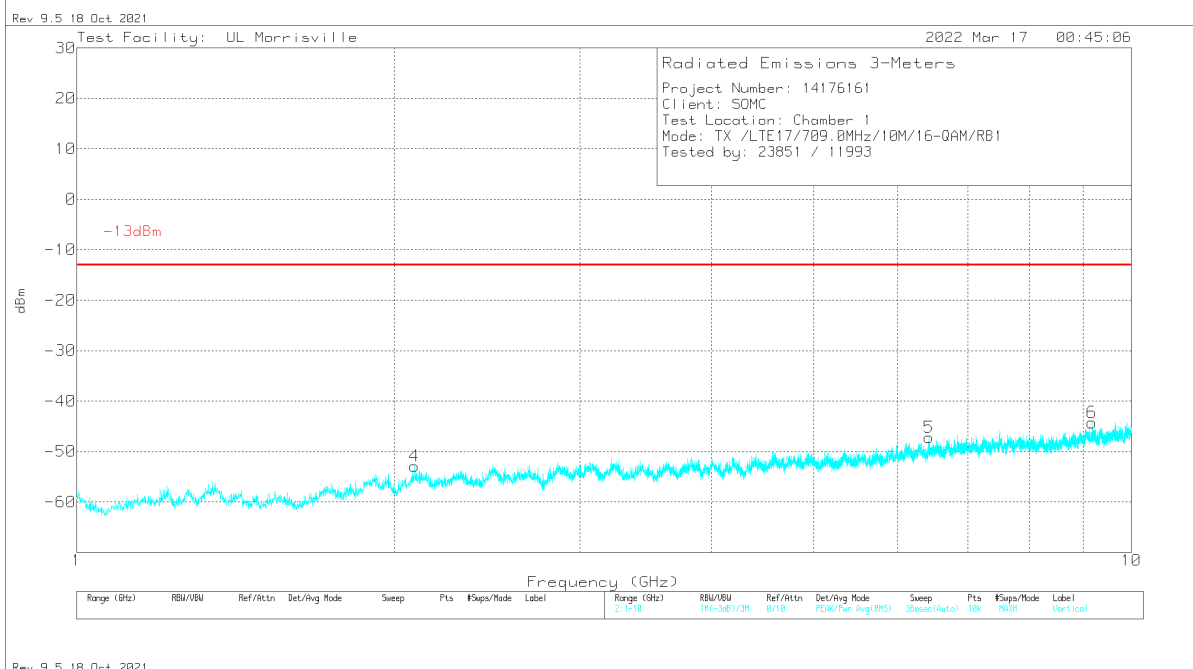
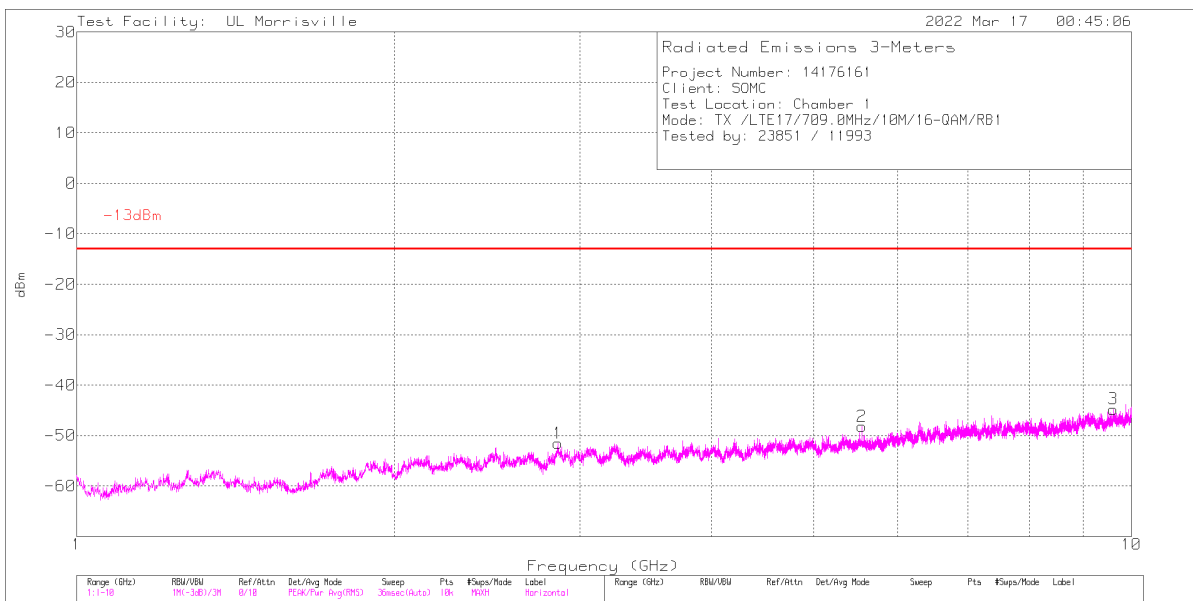
Pk - Peak detector



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

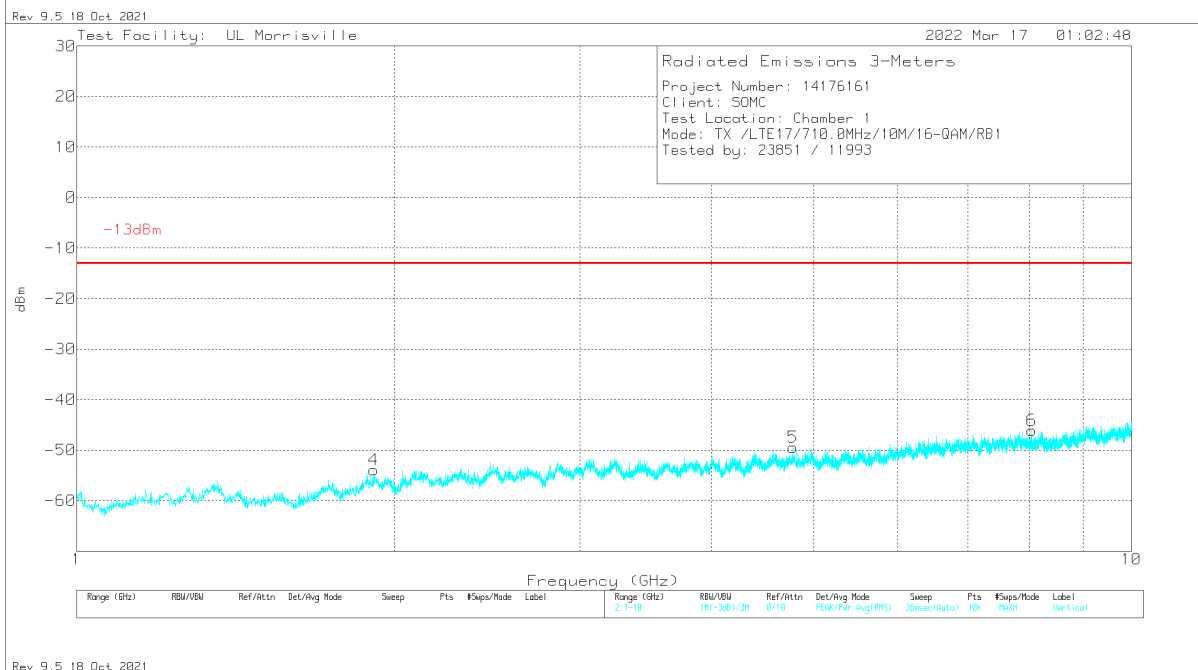
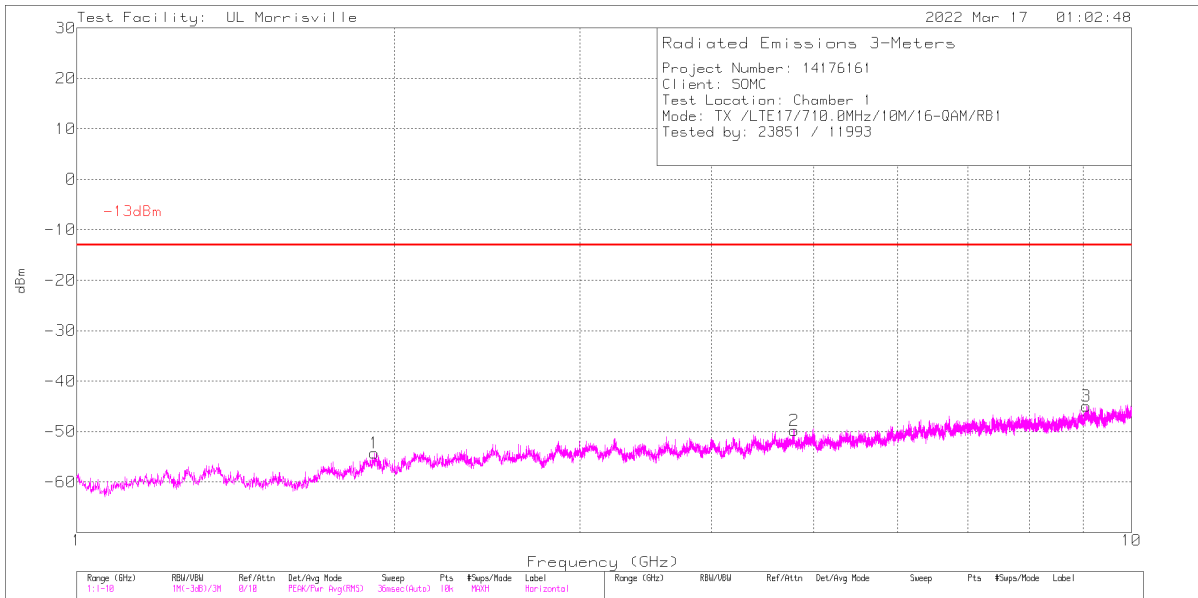
Pk - Peak detector

16QAM LTE17 (10MHz)



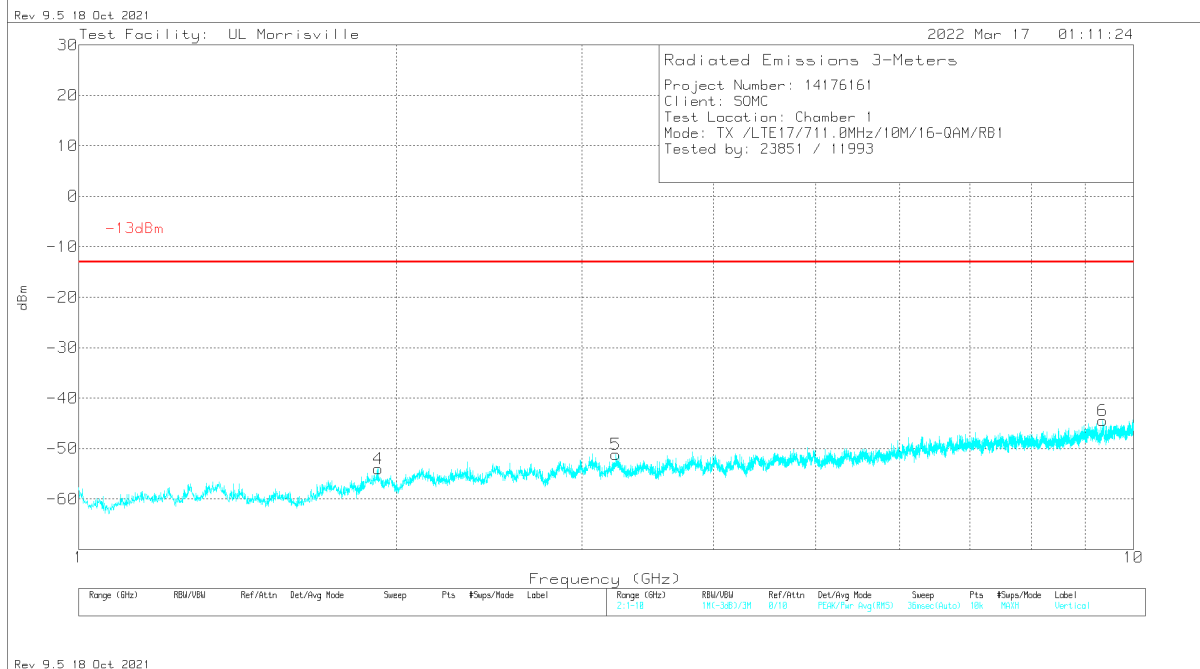
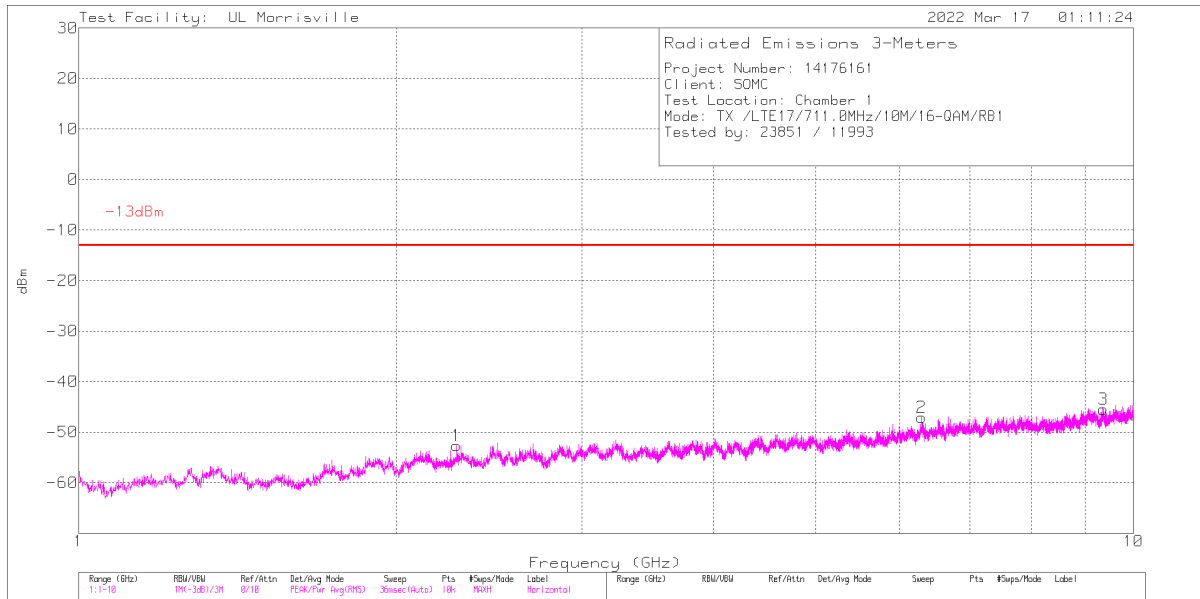
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.0899	-61.68	Pk	31.8	-35.1	.3	11.8	-52.88	-13	-39.88	0-360	101	V
1	2.8612	-62.86	Pk	32.6	-33.5	.4	11.8	-51.56	-13	-38.56	0-360	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



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

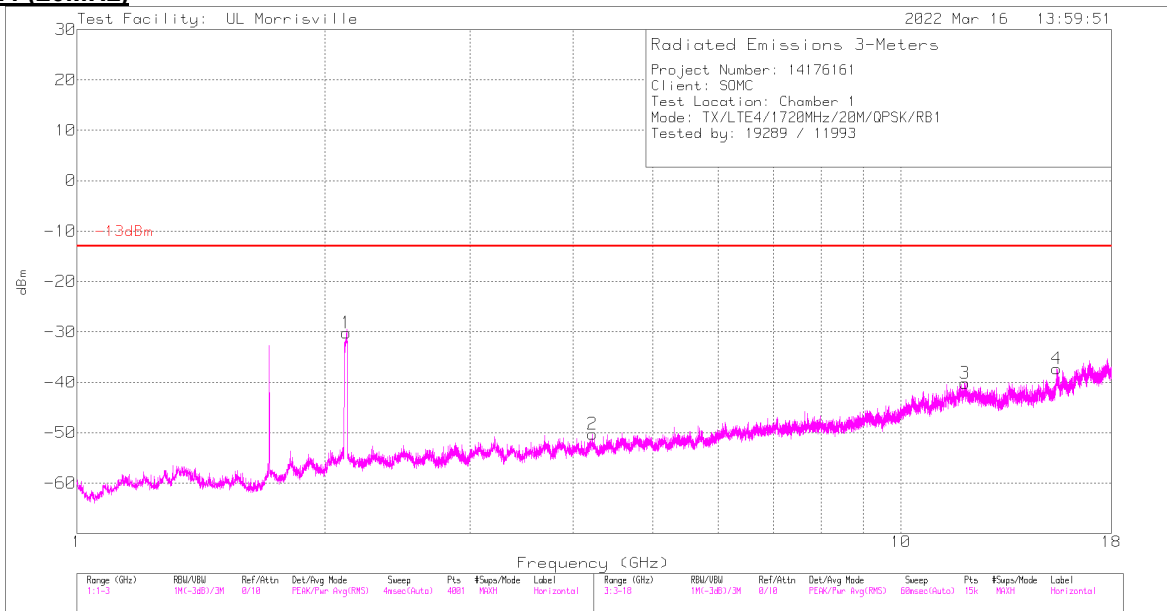
11.1.7. LTE4

LIMITS

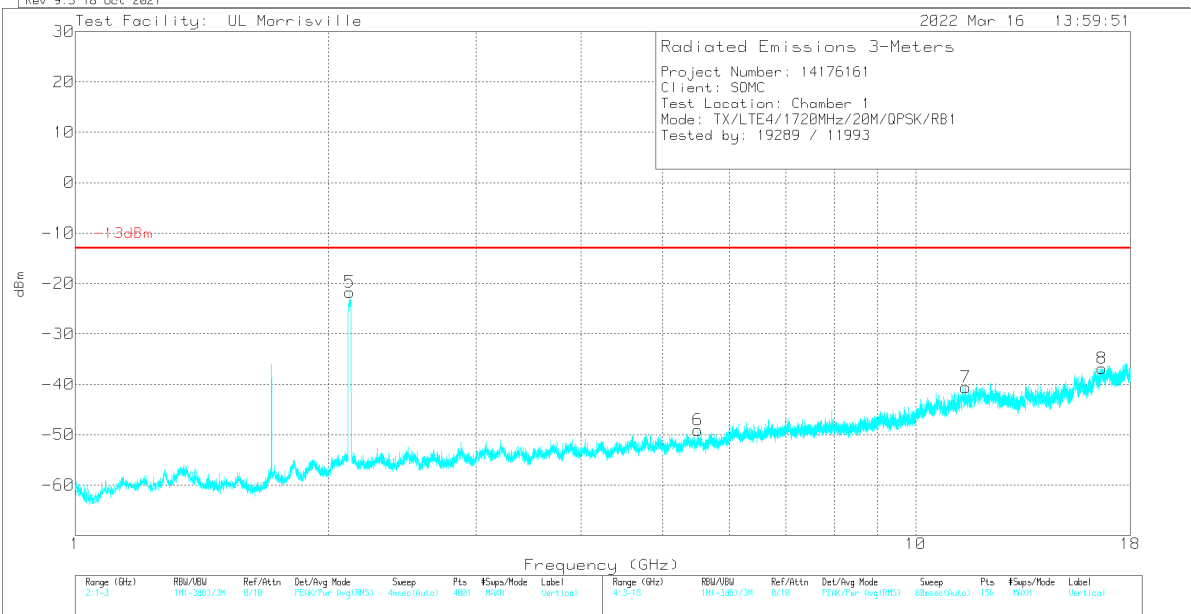
FCC: §27.53(h)

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)



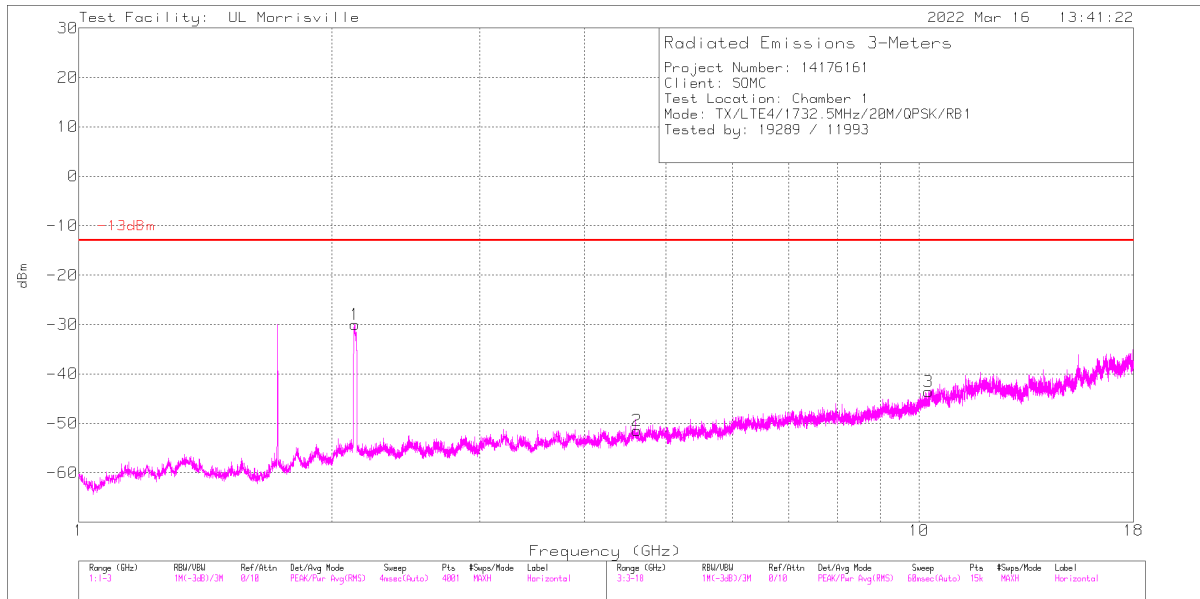
Rev 9.5 18 Oct 2021



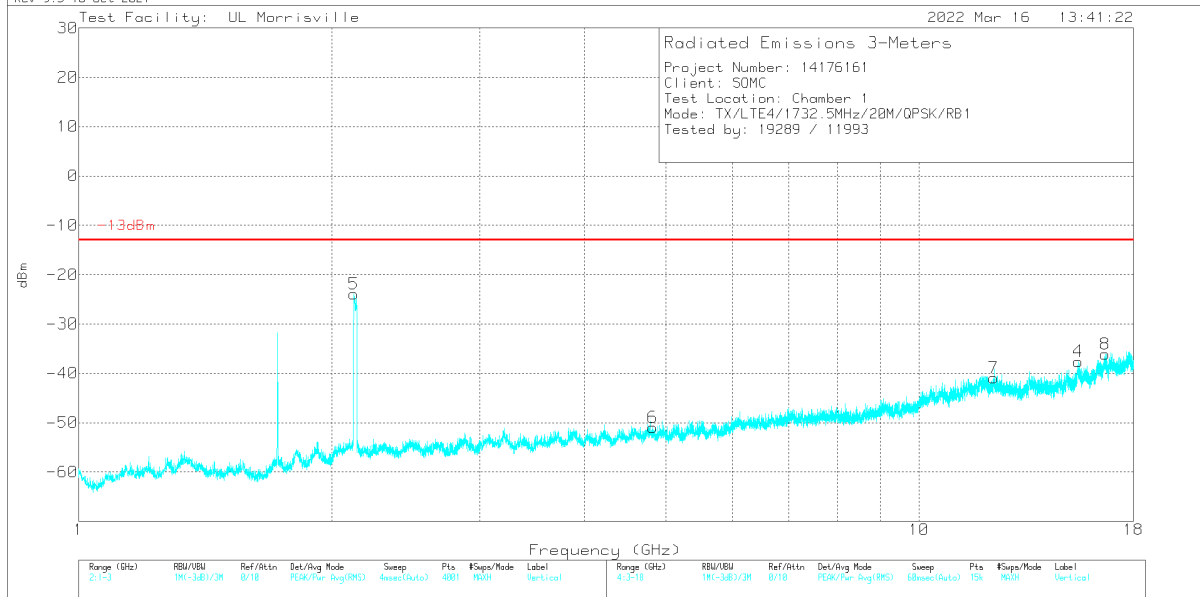
Rev 9.5 18 Oct 2021

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 ^{DL}	2.122	-40.28	Pk	31.9	-34.6	11.8	1	-30.18	-	-	0-360	199	H
5 ^{DL}	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



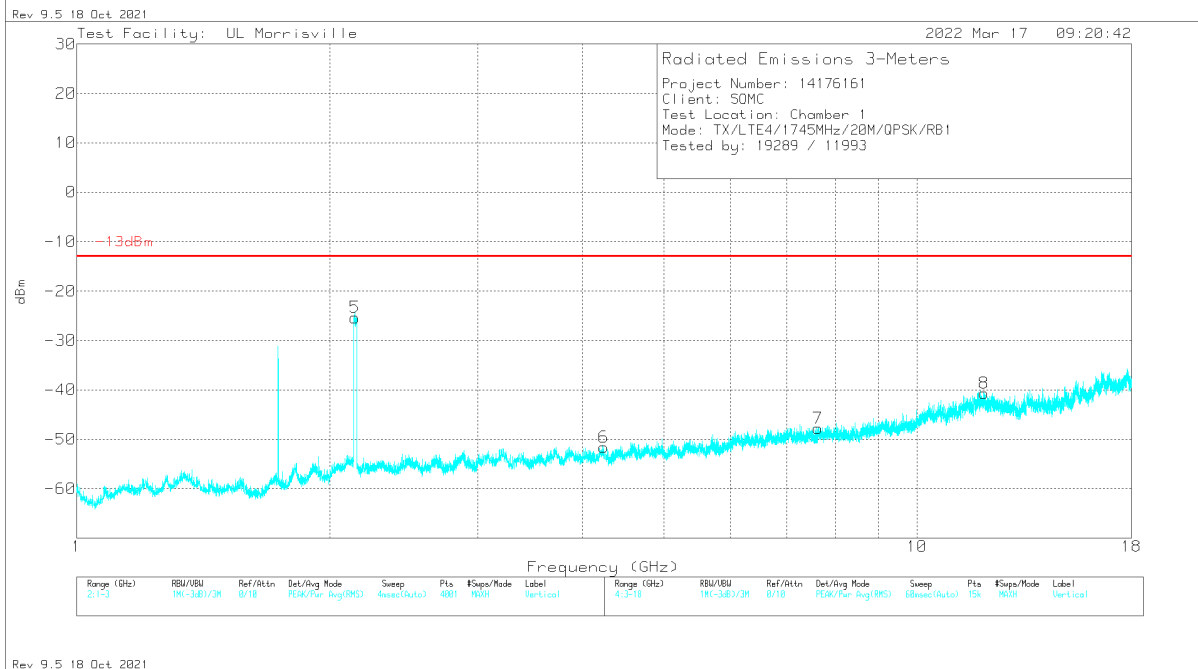
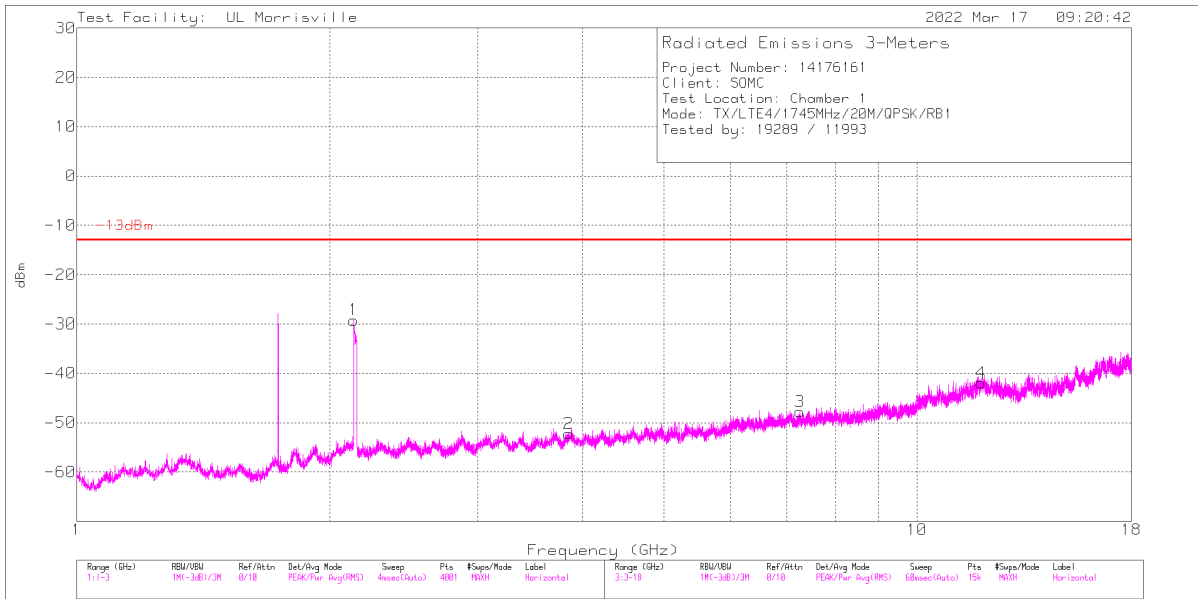
Rev 9.5 18 Oct 2021



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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 ^{DL}	2.1255	-33.82	Pk	32	-34.9	11.8	1	-23.92	-	-	0-360	299	V
1 ^{DL}	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

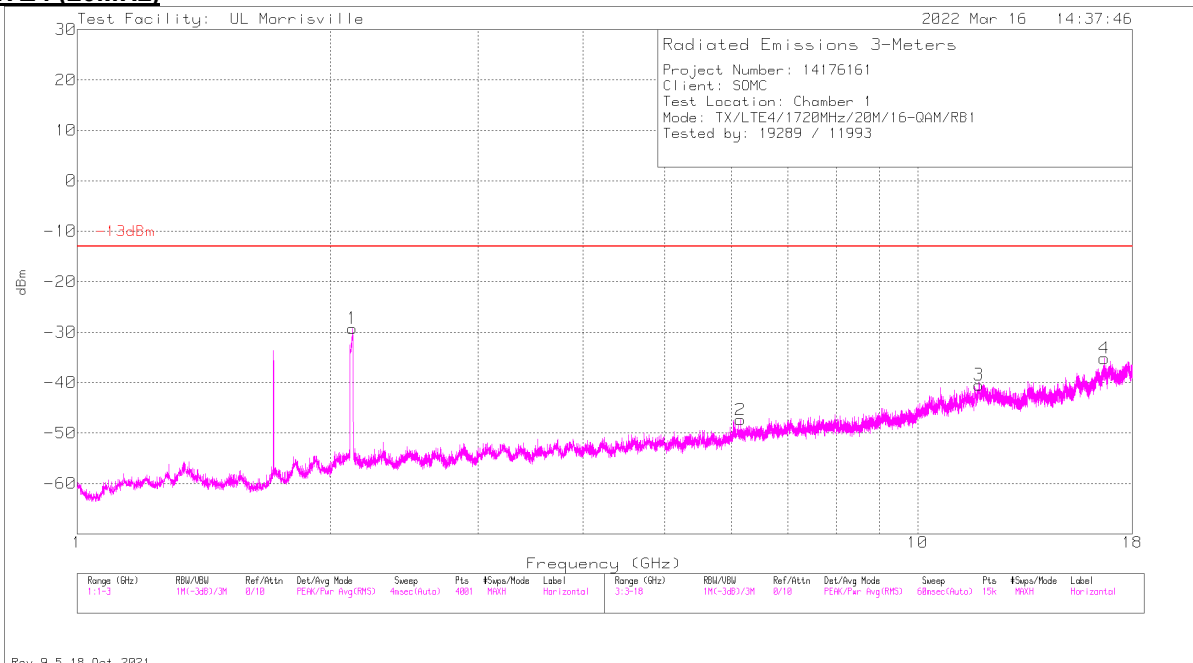
Pk - Peak detector



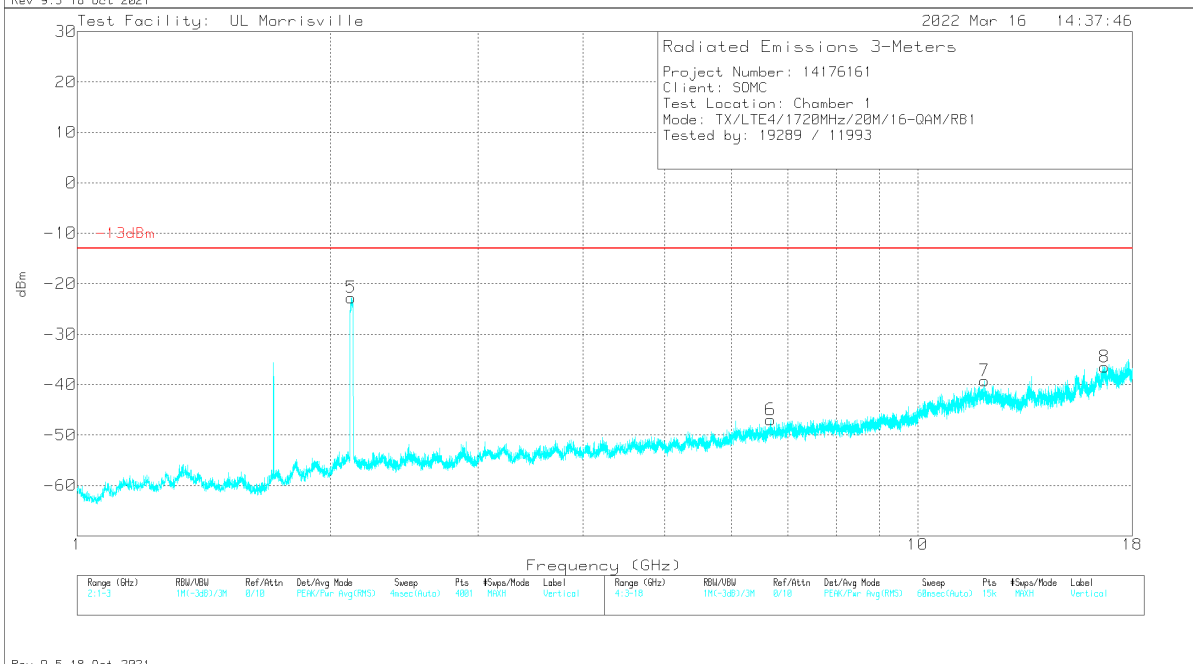
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1 ^{DL}	2.137	-39.18	Pk	32.1	-34.9	11.8	1	-29.18	-13	-16.18	0-360	200	H
5 ^{DL}	2.1445	-35.47	Pk	32.1	-34.8	11.8	1	-25.37	-13	-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)



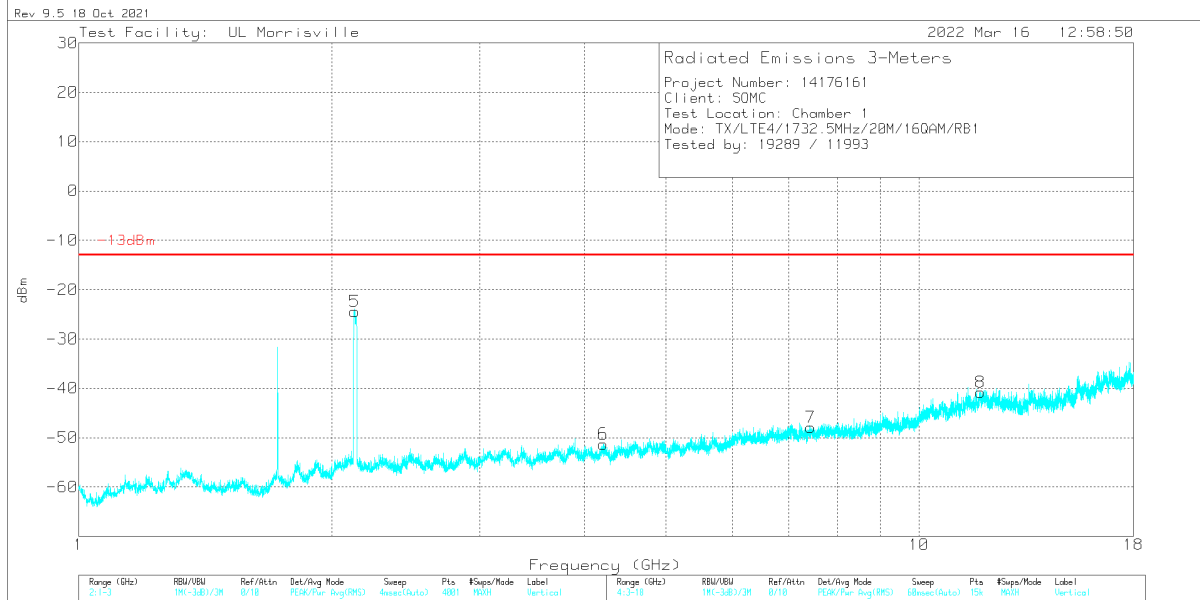
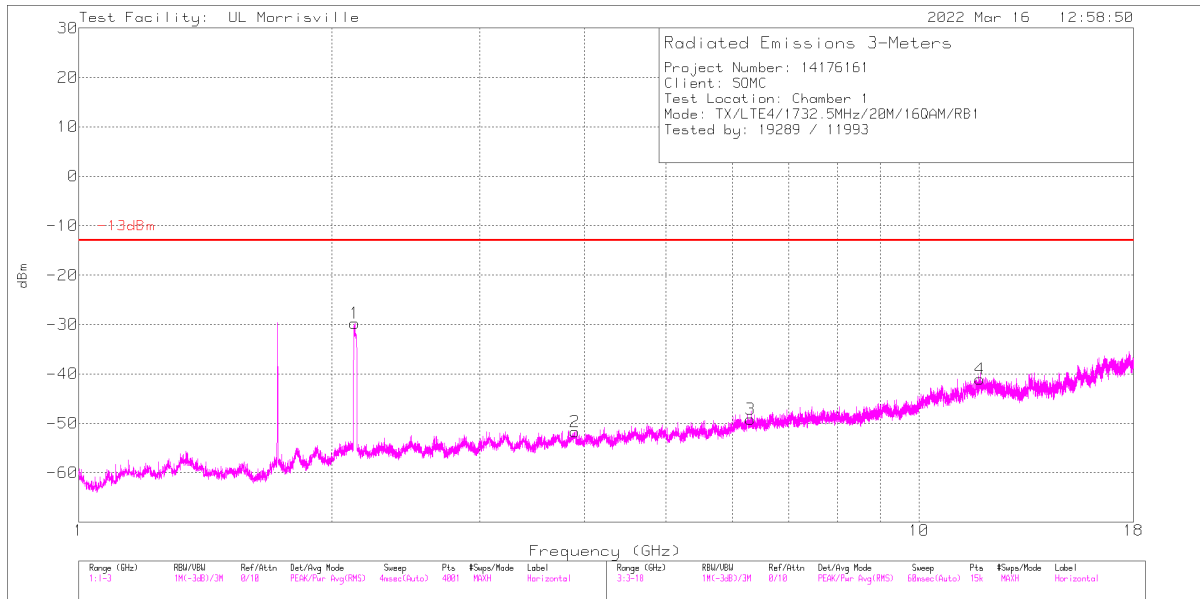
Rev 9.5 18 Oct 2021



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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

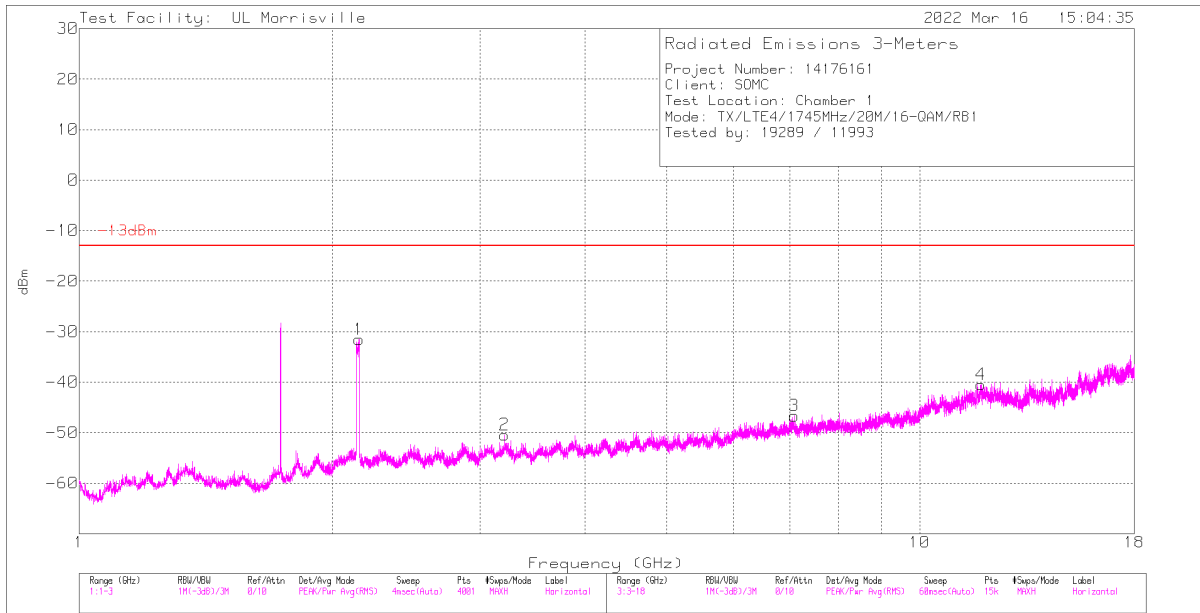
Pk - Peak detector



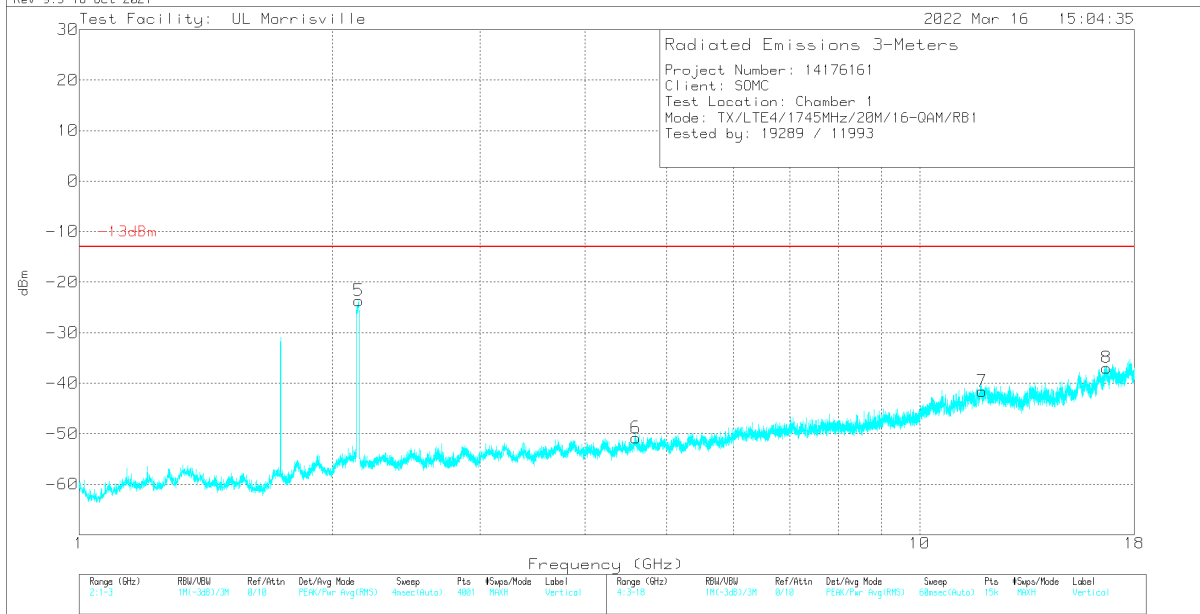
Rev. 9.5 18 Oct 2021

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 ^{DL}	2.1305	-39.68	Pk	32	-34.9	11.8	1	-29.78	-	-	0-360	300	H
5 ^{DL}	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



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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 ^{DL}	2.1495	-34.08	Pk	32.1	-34.5	11.8	1	-23.68	-	-	0-360	200	V
1 ^{DL}	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

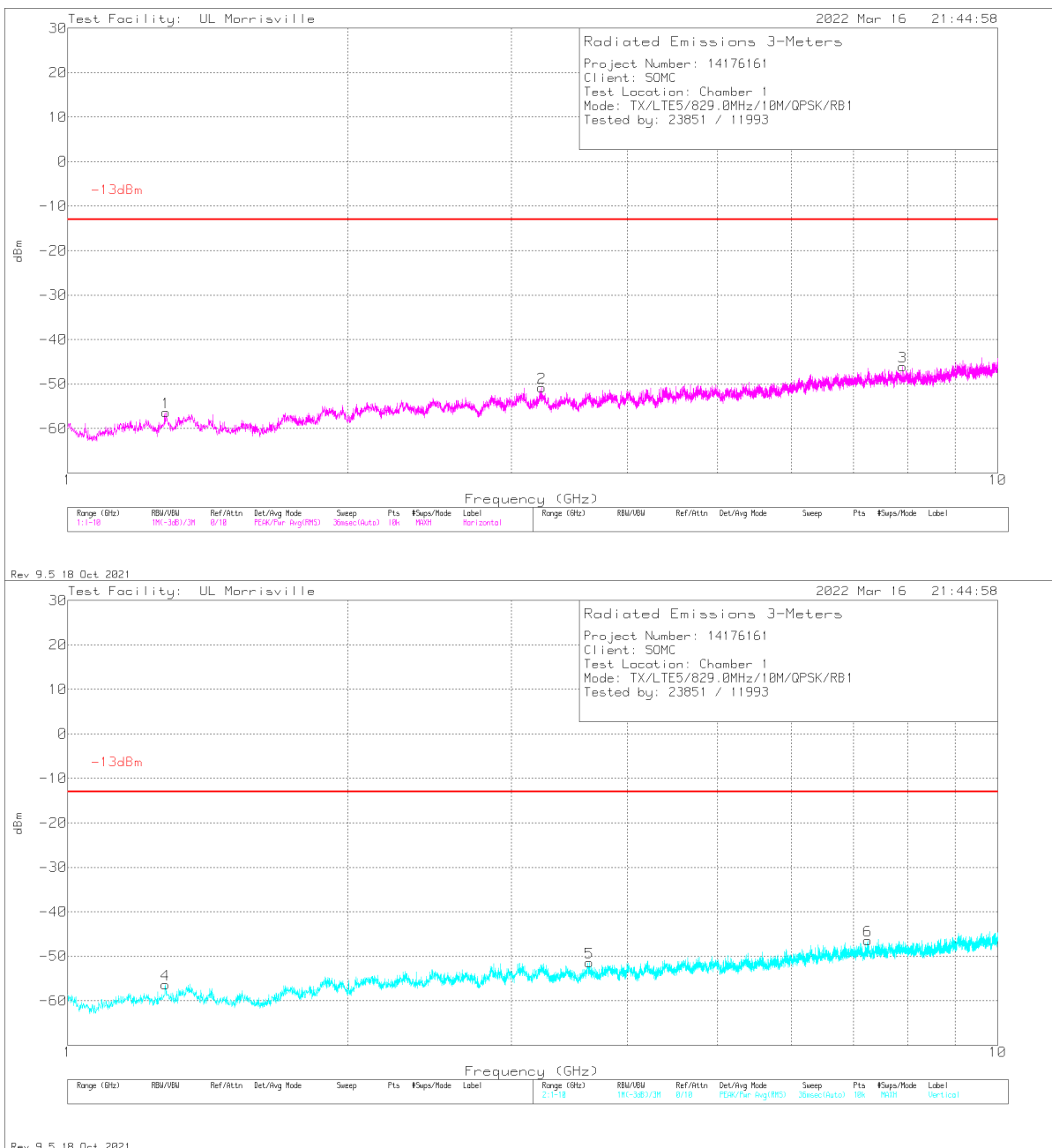
11.1.8. LTE5

LIMITS

FCC: §22.917 (a)

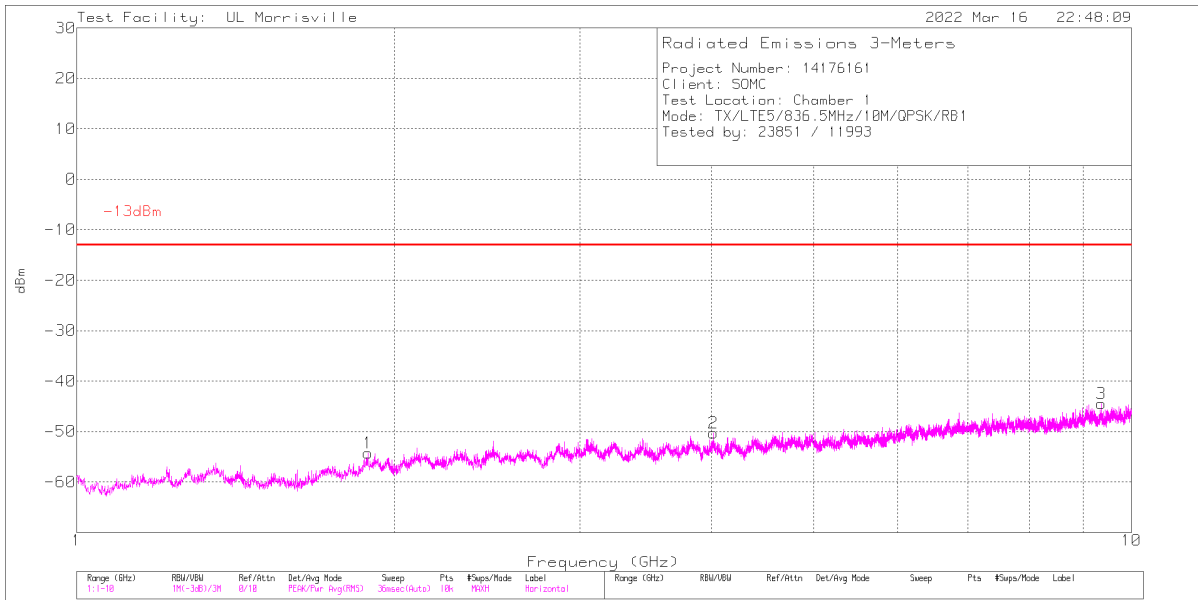
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

QPSK LTE5 (10MHz)

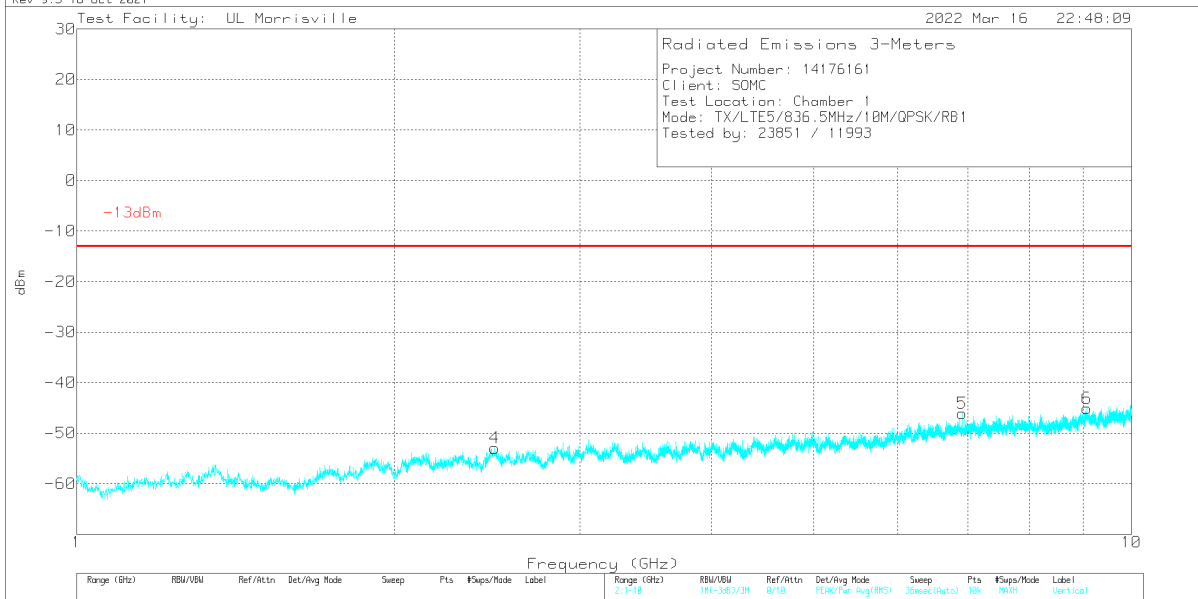


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.2745	-62.37	Pk	29.6	-36.4	1	11.8	-56.37	-13	-43.37	0-360	101	V
1	1.2763	-62.37	Pk	29.6	-36.4	1	11.8	-56.37	-13	-43.37	0-360	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



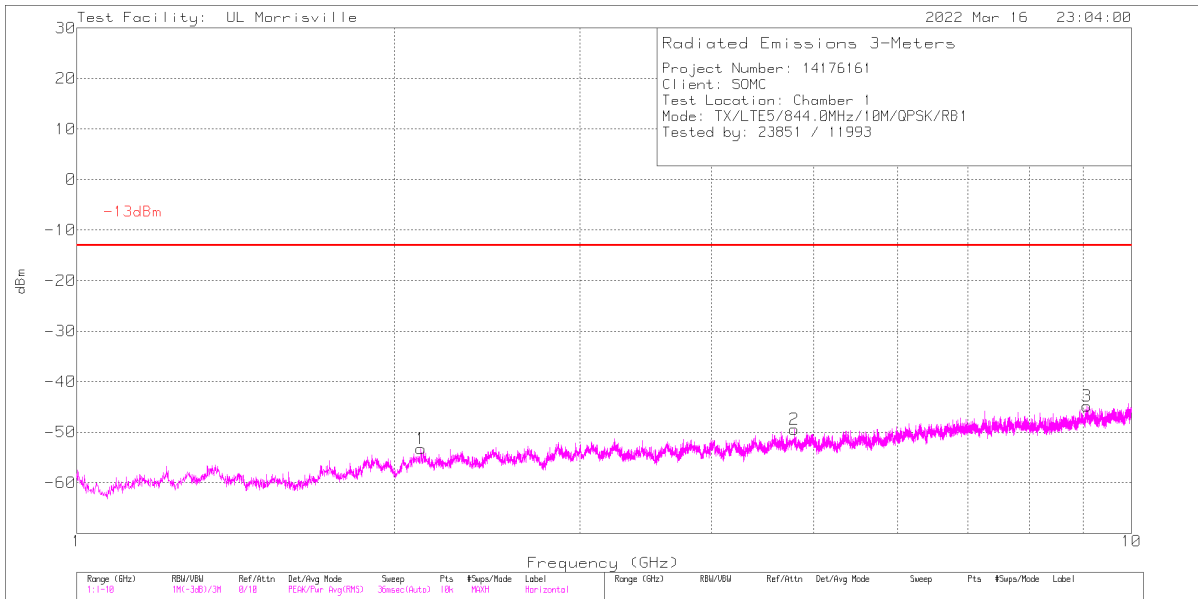
Rev 9.5 18 Oct 2021



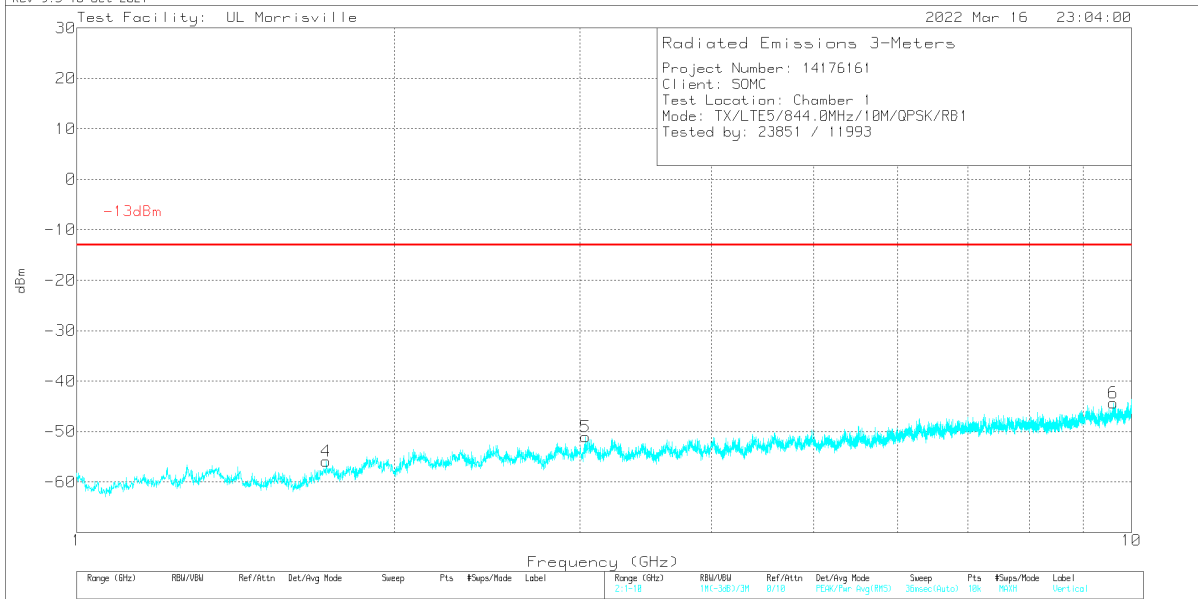
Rev 9.5 18 Oct 2021

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



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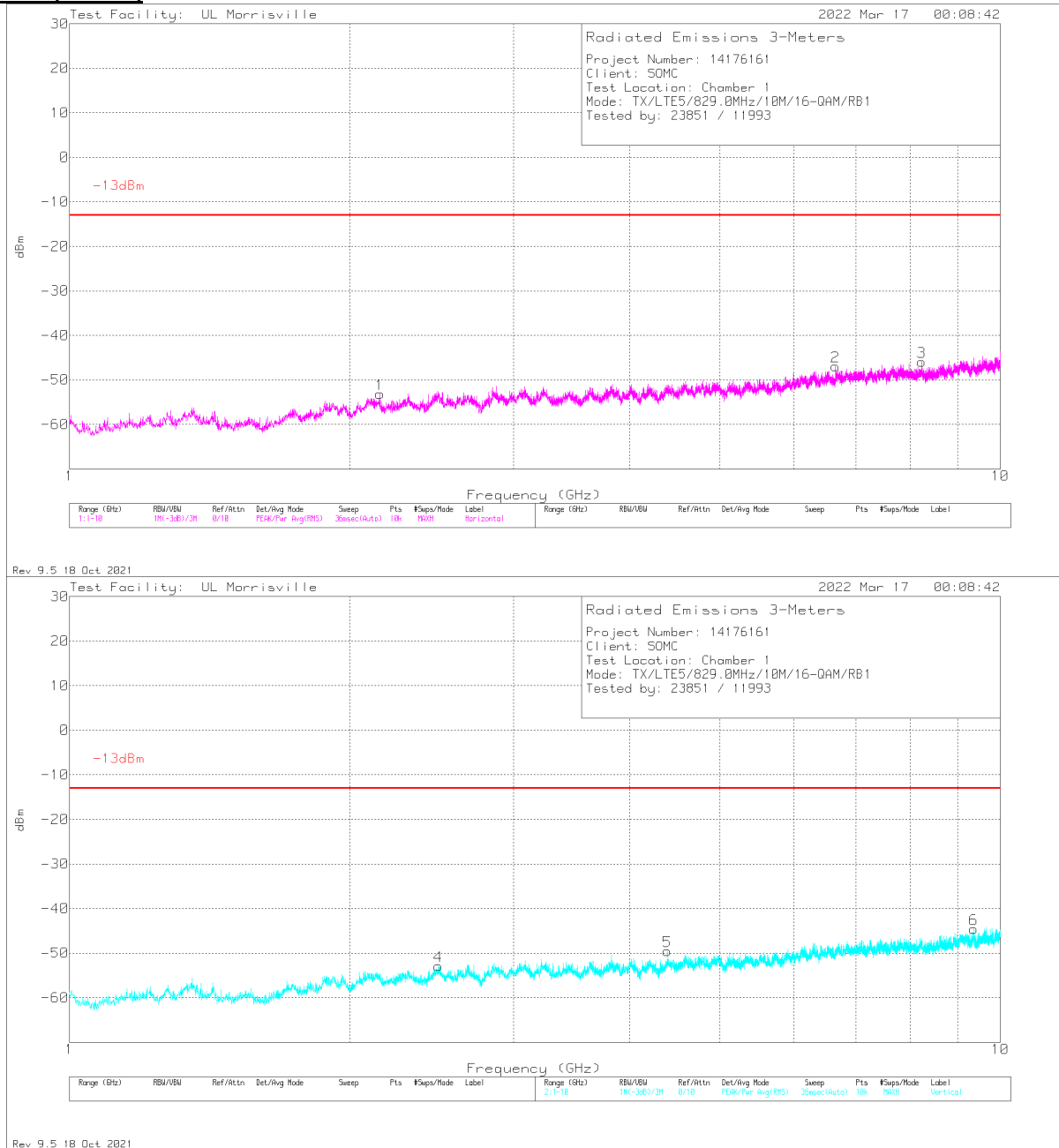


Rev 9.5 18 Oct 2021

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	1.7245	-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

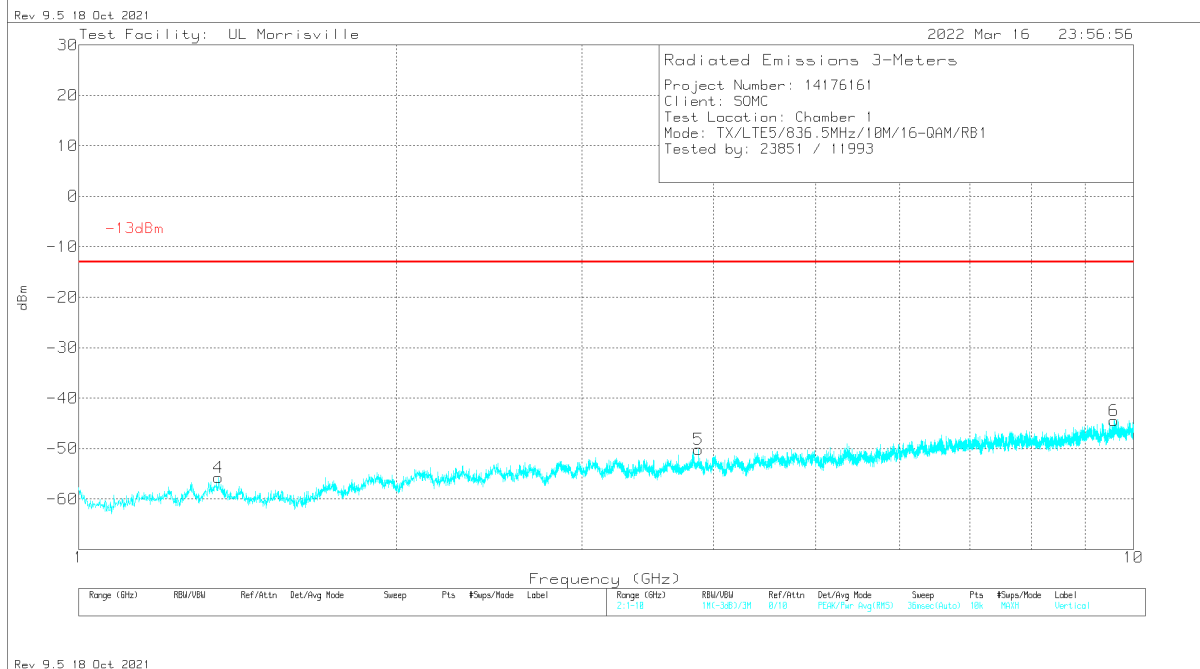
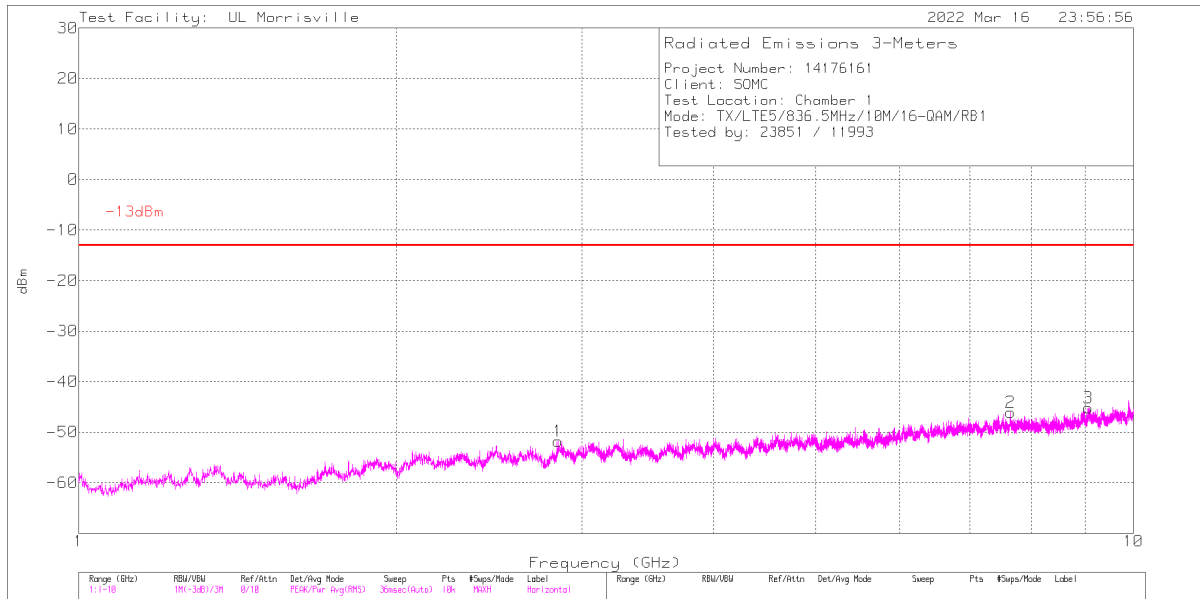
Pk - Peak detector

16QAM LTE5 (10MHz)



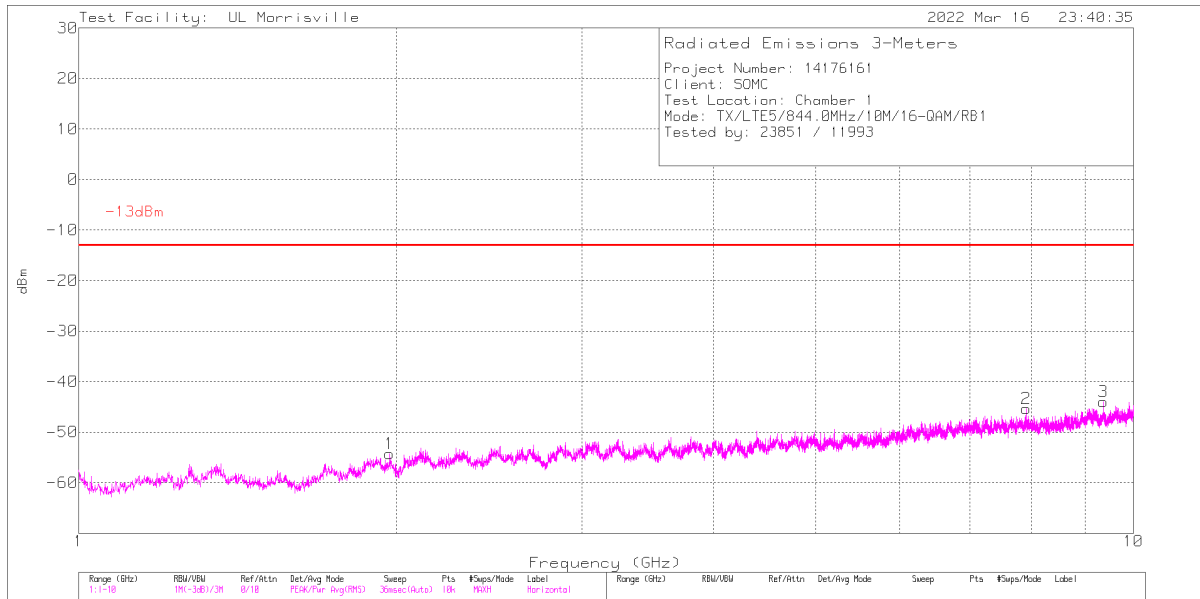
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.1556	-62.93	Pk	32	-34.4	.4	11.8	-53.13	-13	-40.13	0-360	300	H
4	2.4913	-63.34	Pk	32.3	-34.1	.4	11.8	-52.94	-13	-39.94	0-360	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

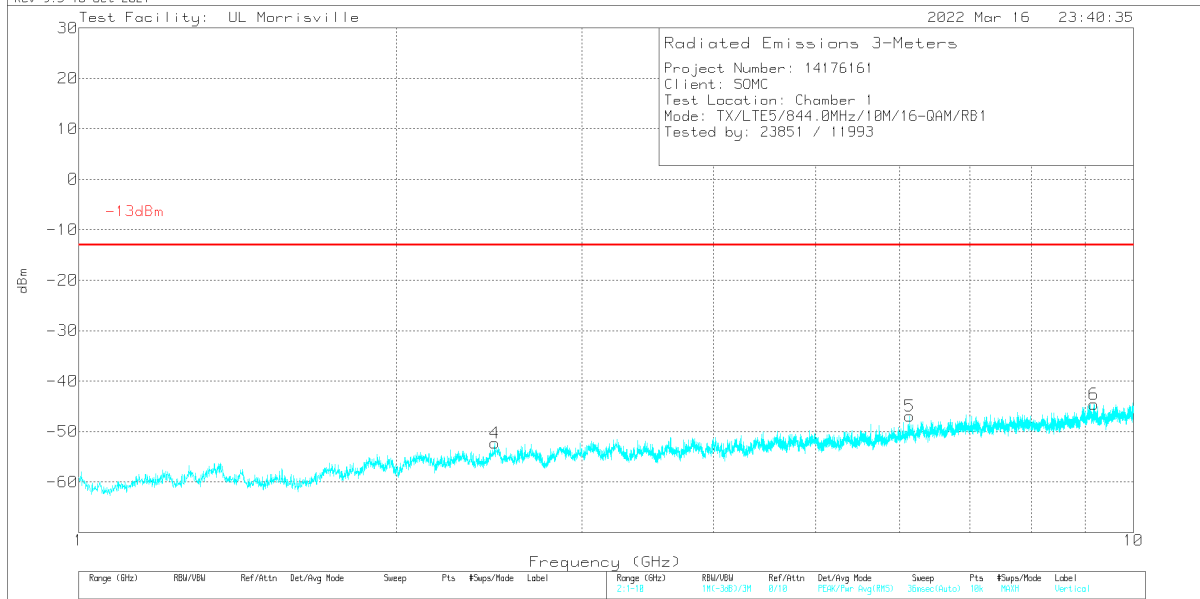


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.3573	-61.37	Pk	29.6	-36.6	.8	11.8	-55.77	-13	-42.77	0-360	101	V
1	2.8459	-62.83	Pk	32.5	-33.7	.5	11.8	-51.73	-13	-38.73	0-360	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



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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

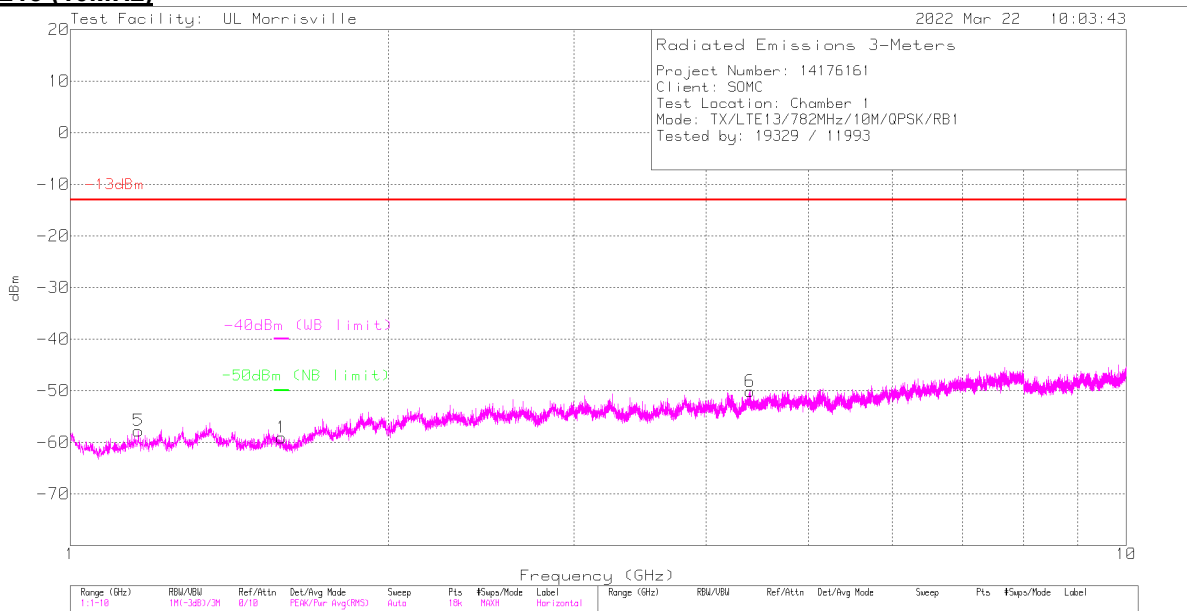
LIMITS

FCC: §27.53

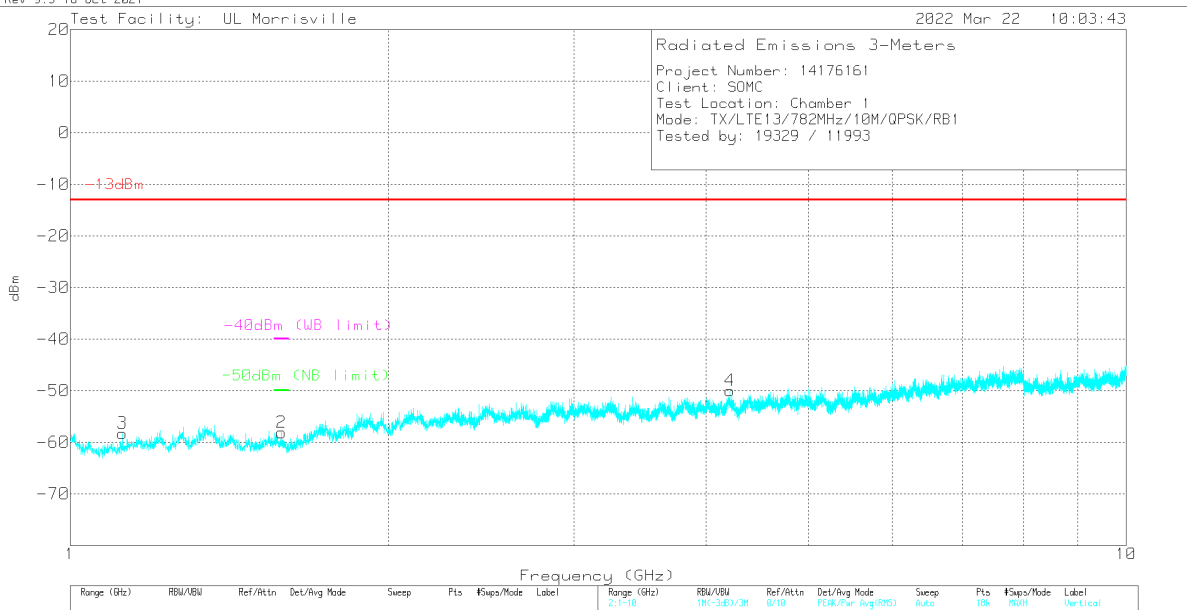
(c) The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

(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)



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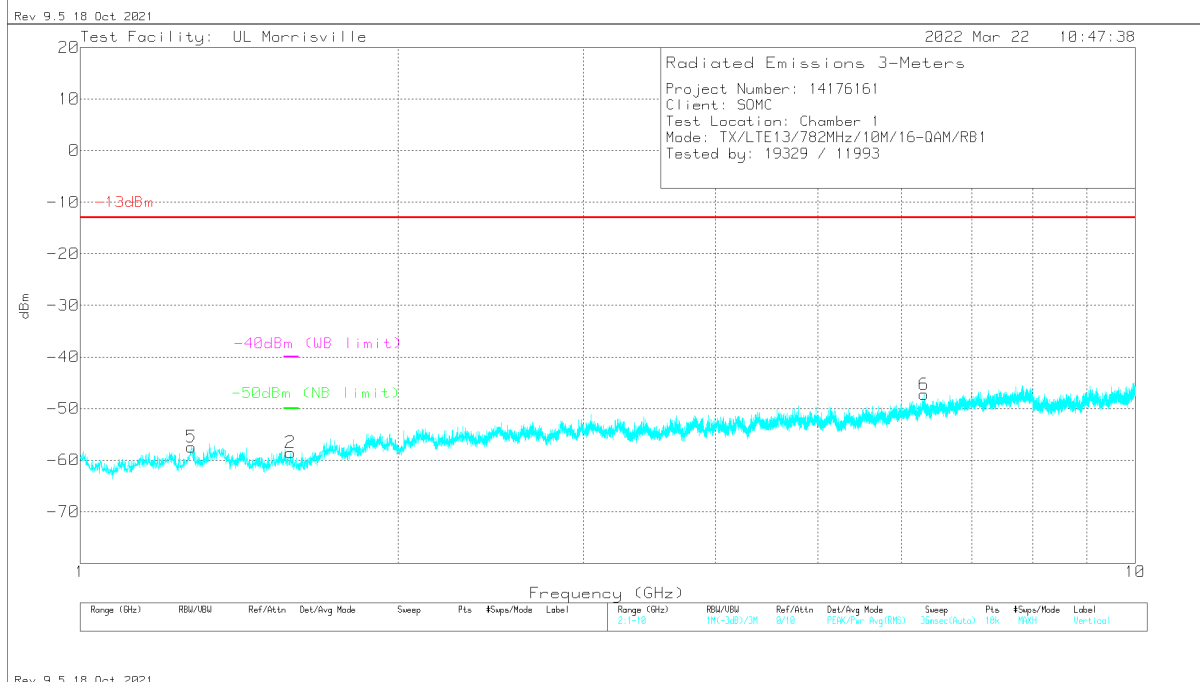
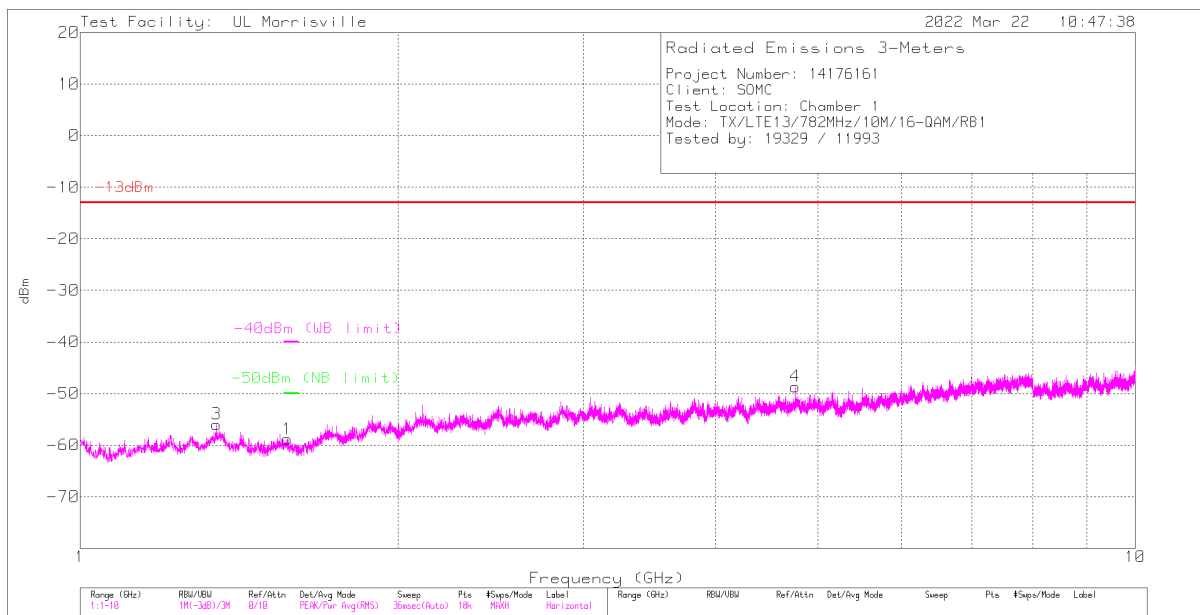


Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	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	-50	-9.06	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	-50	-8.09	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

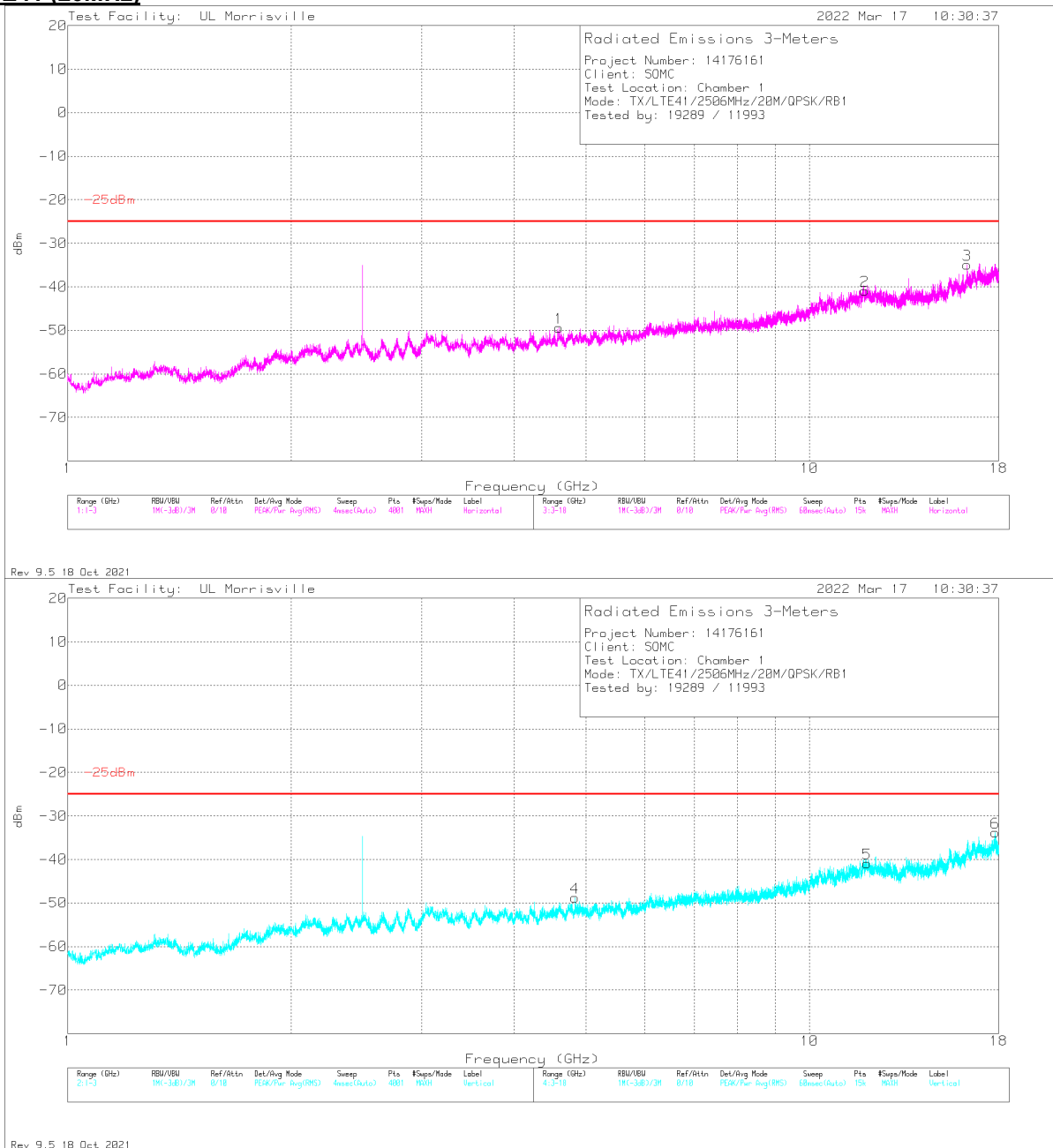
Pk - Peak detector

11.1.10. LTE41

FCC: §27.53 (m)

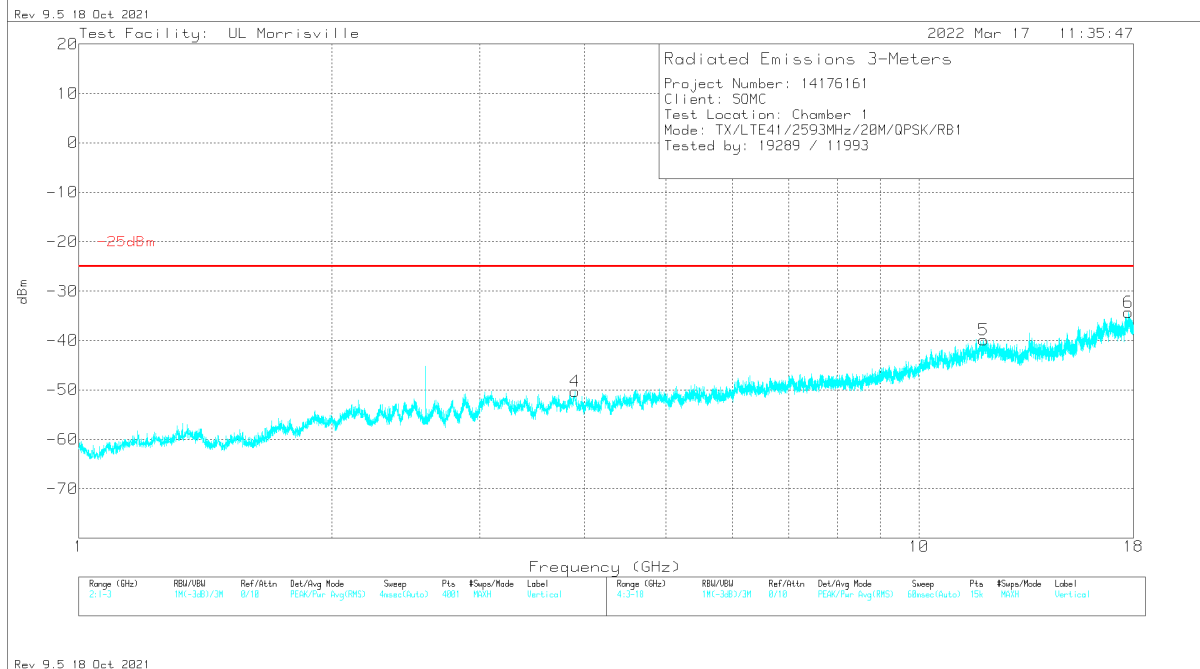
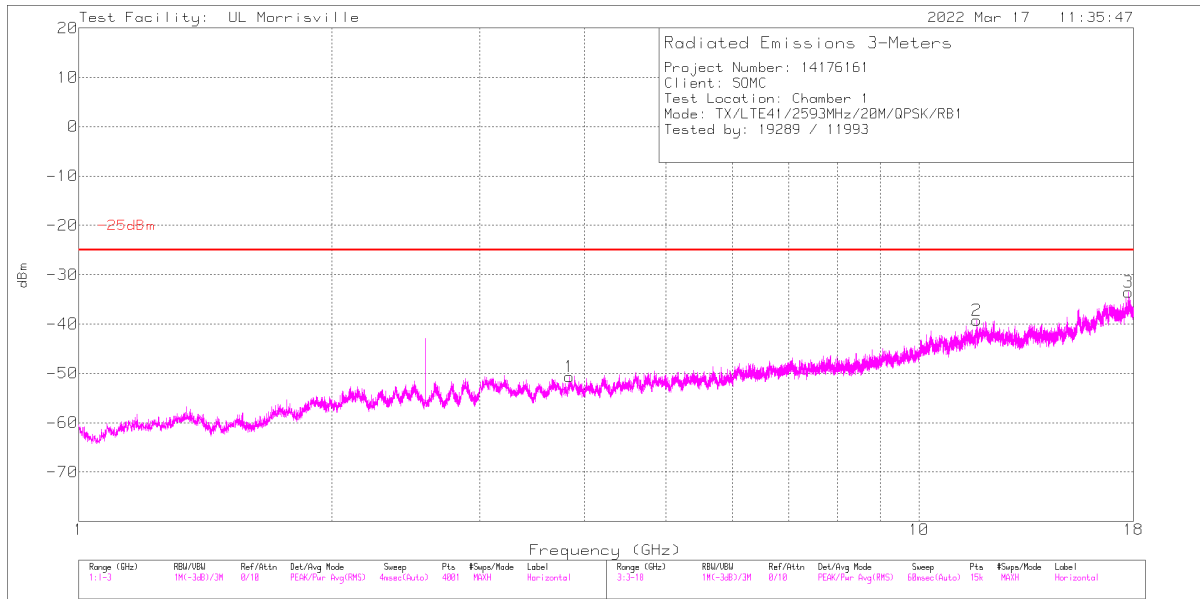
At least $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section.

QPSK LTE41 (20MHz)



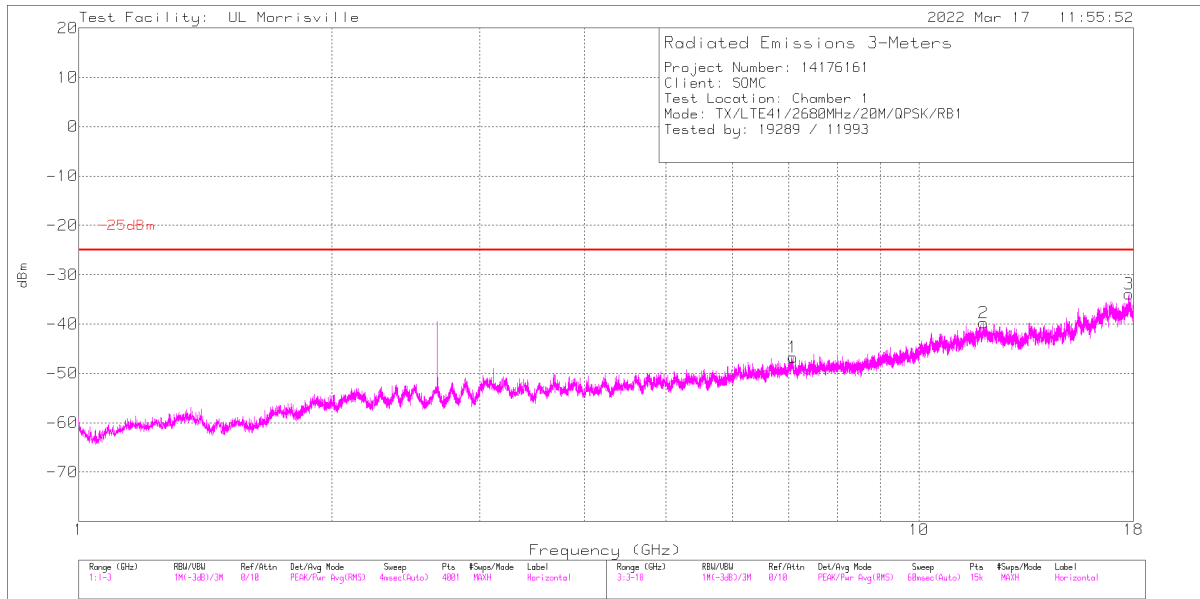
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.596	-64.11	Pk	33.9	-31.6	11.8	.6	-49.41	-25	-24.41	0-360	200	H
4	4.831	-63.95	Pk	34	-31	11.8	.4	-48.75	-25	-23.75	0-360	300	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

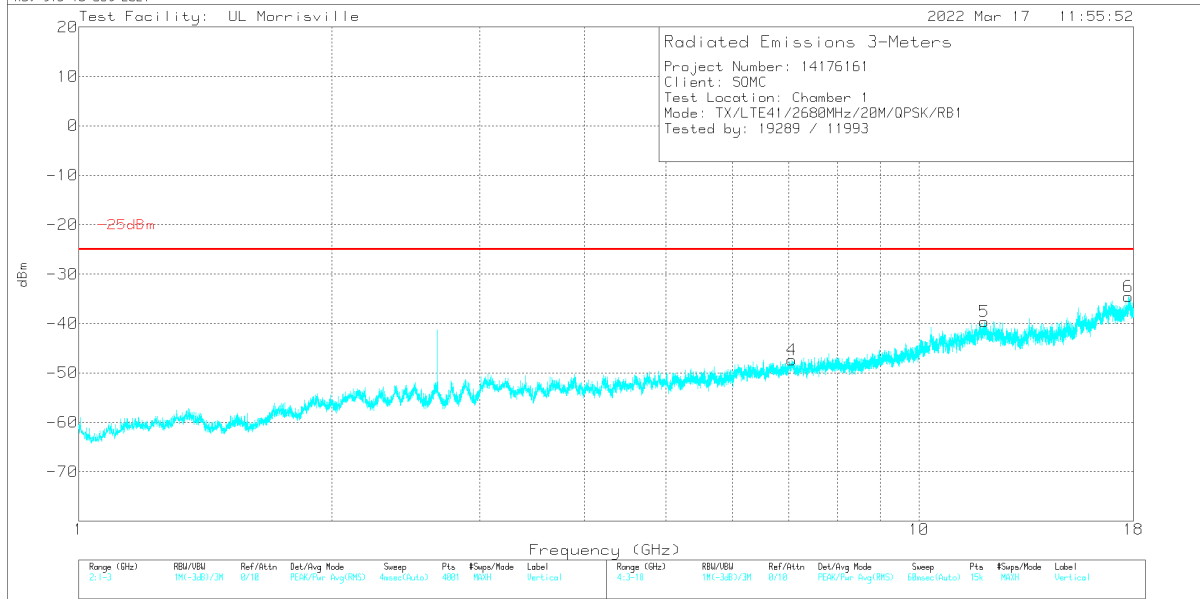


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.836	-64.1	Pk	33.3	-32.2	11.8	.5	-50.7	-25	-25.7	0-360	199	H
4	3.898	-64.96	Pk	33.3	-31	11.8	.6	-50.26	-25	-25.26	0-360	300	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



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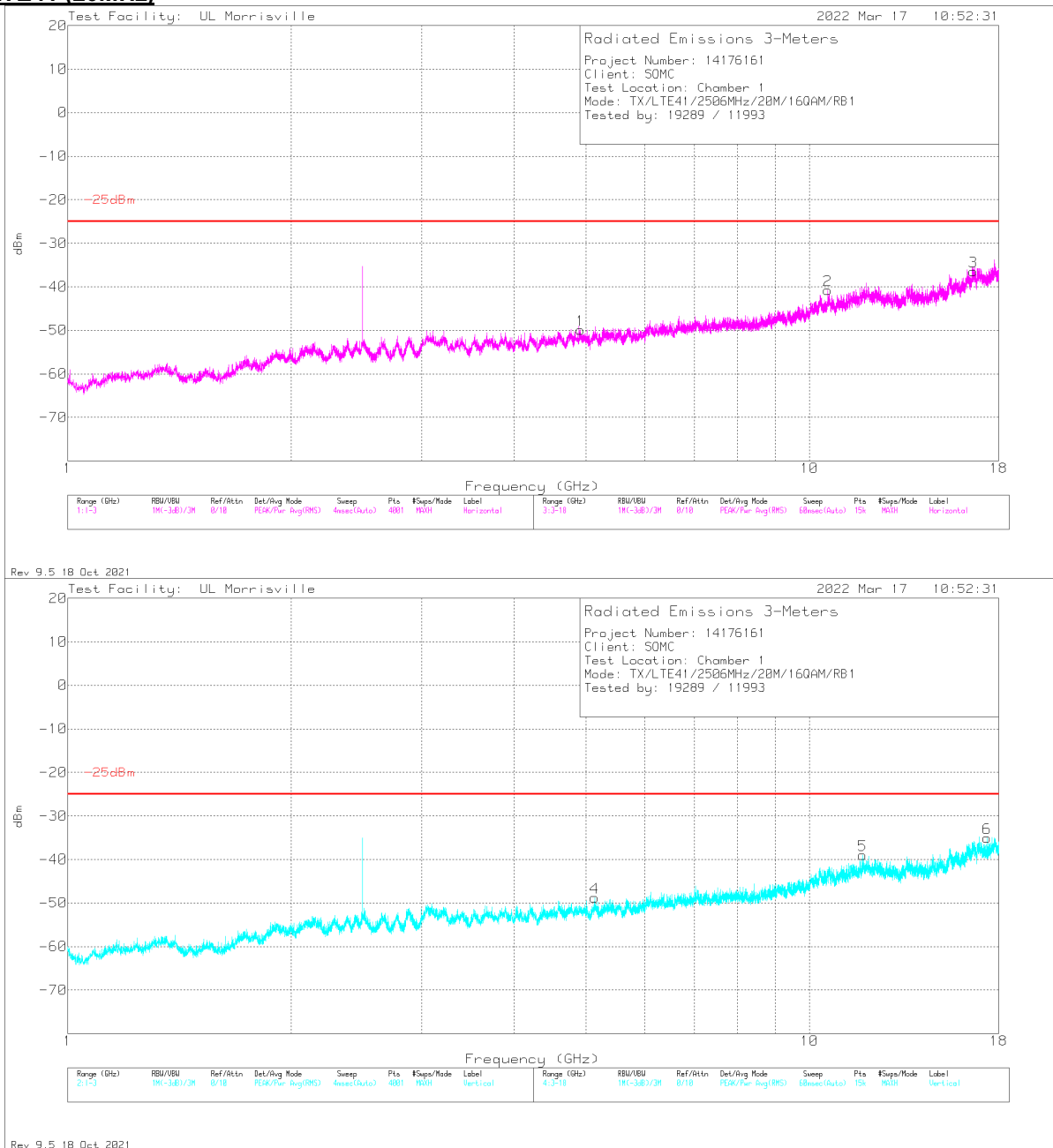


Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-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

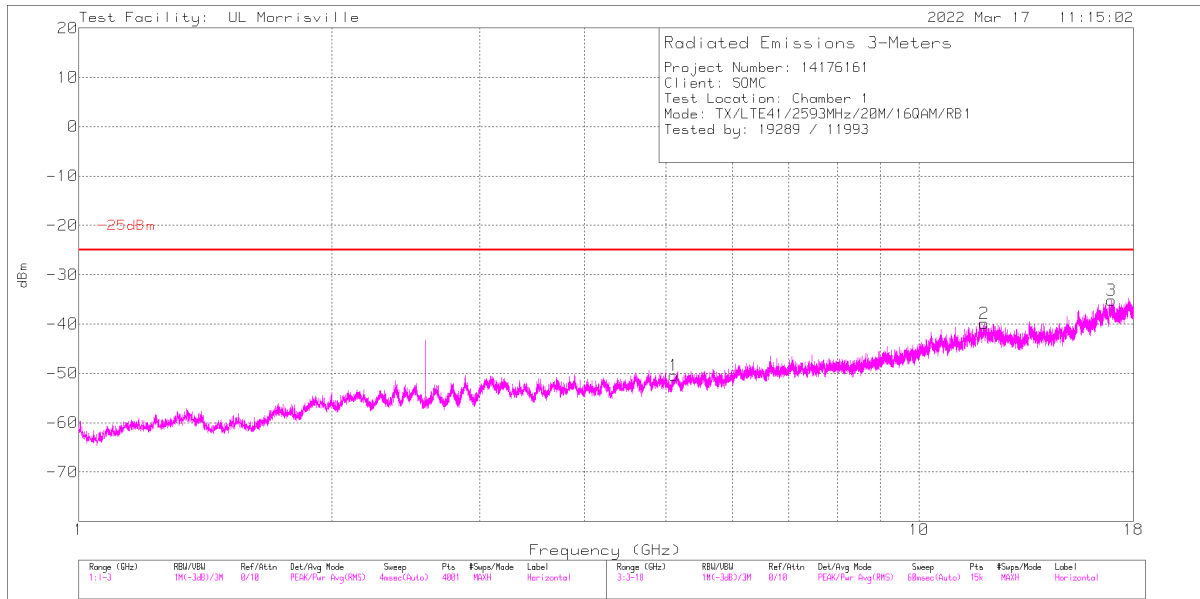
Pk - Peak detector

16QAM LTE41 (20MHz)

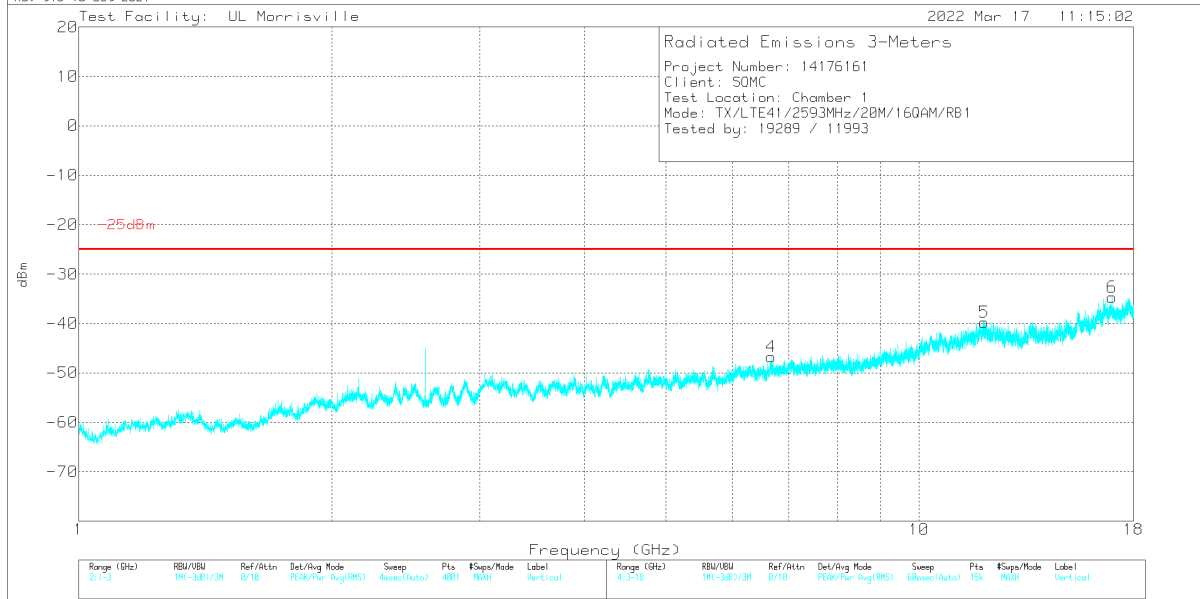


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.916	-64.84	Pk	33.9	-31.7	11.8	.9	-49.94	-25	-24.94	0-360	300	H
4	5.133	-63.86	Pk	34	-31.4	11.8	.7	-48.76	-25	-23.76	0-360	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



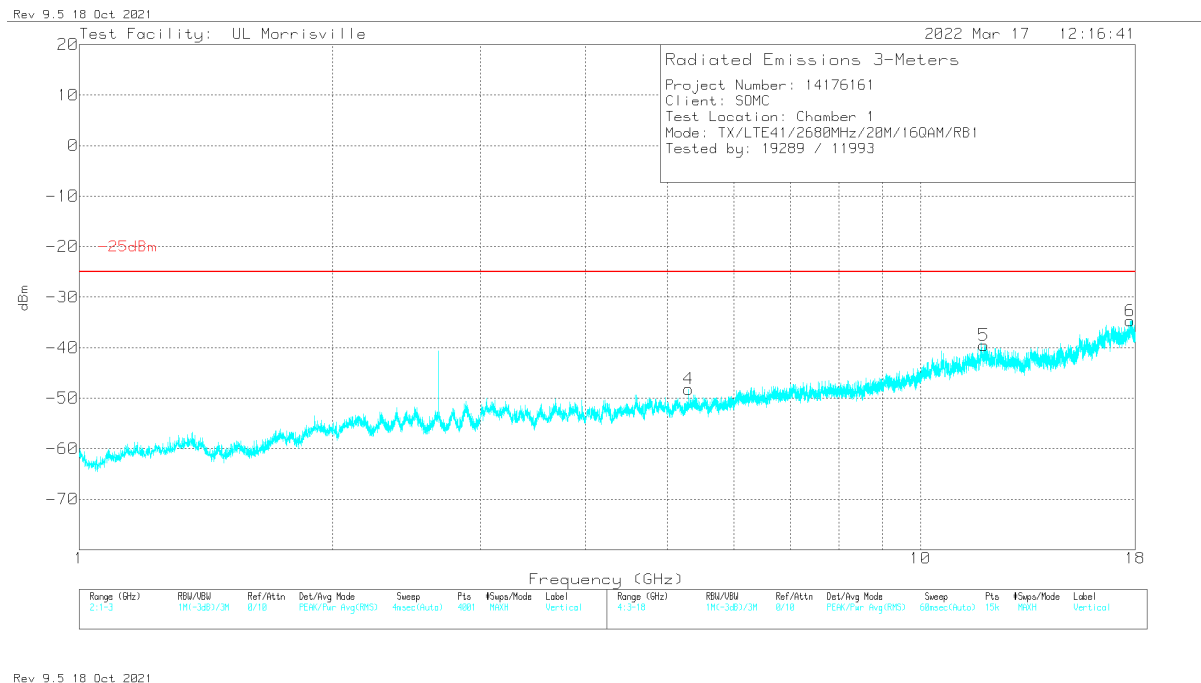
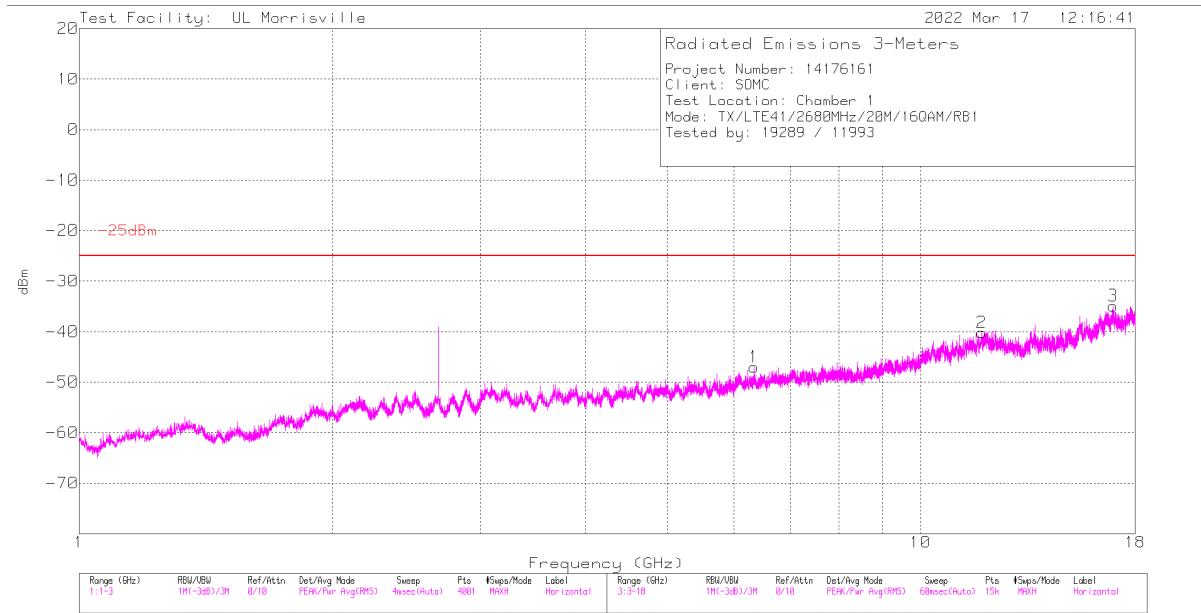
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Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.114	-65.76	Pk	34	-31	11.8	.5	-50.46	-25	-25.46	0-360	299	H
4	6.666	-64.68	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