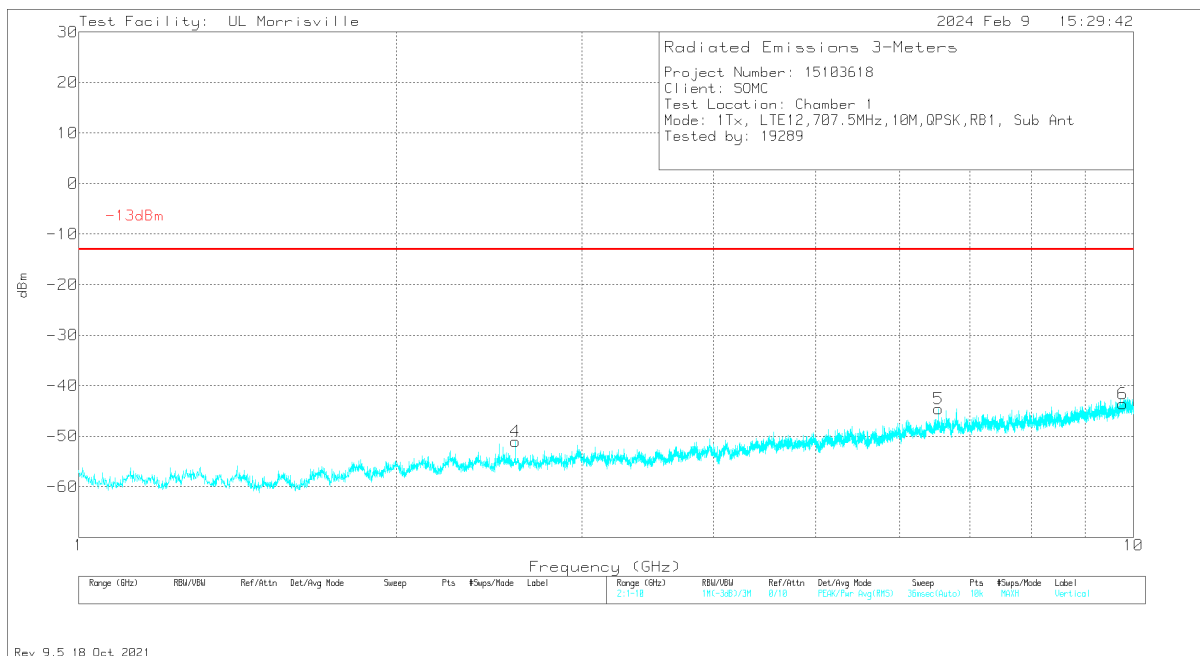
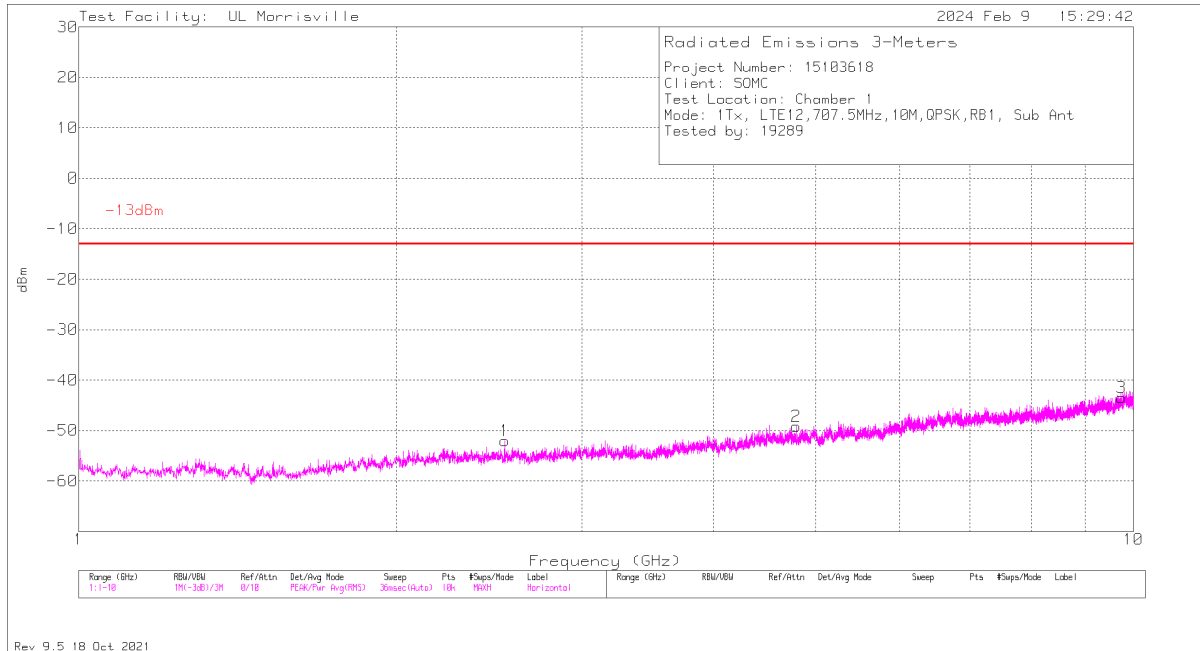


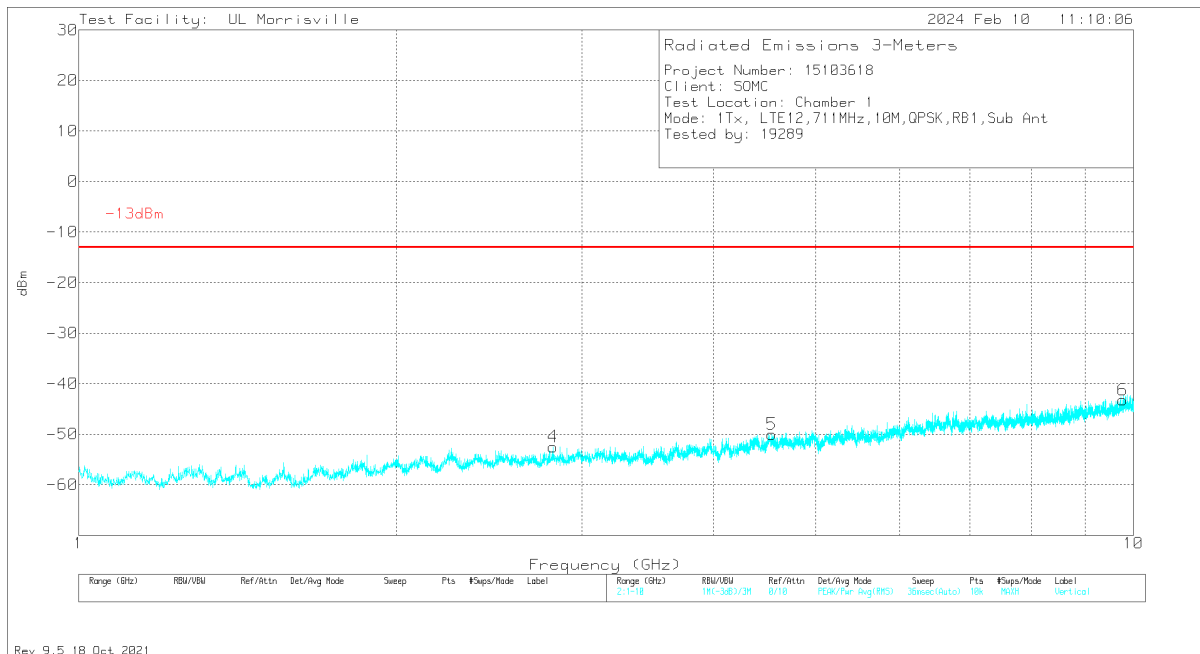
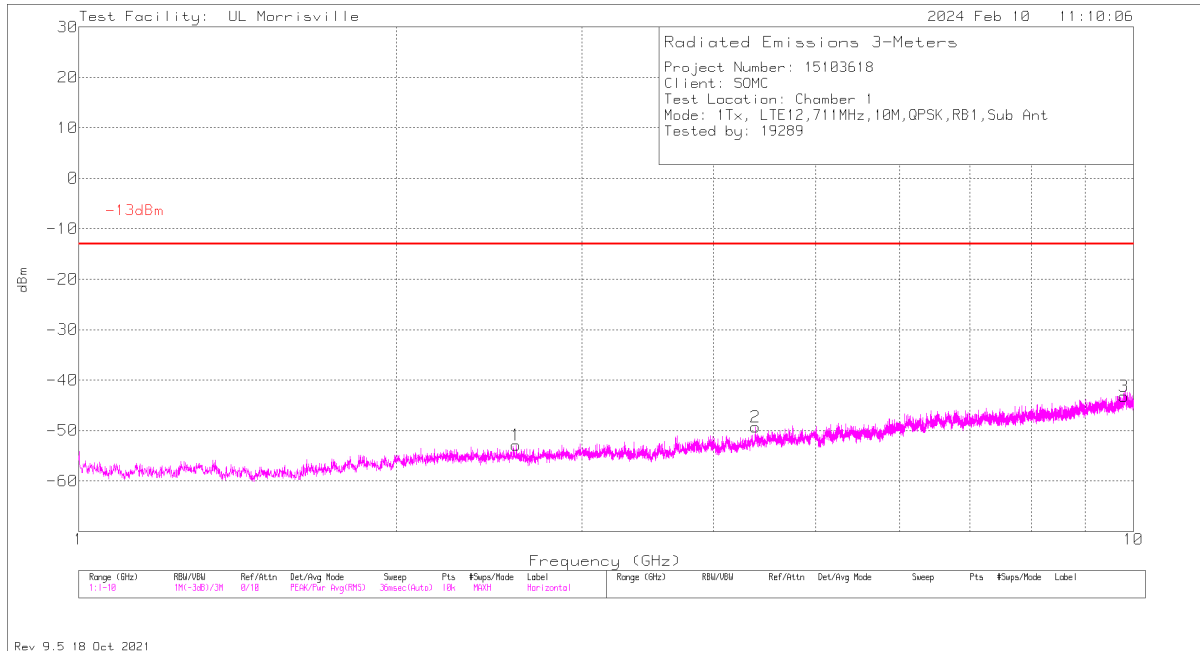
QPSK LTE BAND 12 (10MHz, Mid Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.5336	-62.69	Pk	32.3	-33.9	.4	11.8	-52.09	-13	-39.09	0-360	300	H
4	2.5939	-61.71	Pk	32.2	-33.8	.5	11.8	-51.01	-13	-38.01	0-360	300	V
2	4.7908	-64.32	Pk	34.1	-31.2	.4	11.8	-49.22	-13	-36.22	0-360	101	H
5	6.5314	-63.81	Pk	35.6	-28.5	.3	11.8	-44.61	-13	-31.61	0-360	300	V
3	9.7489	-67.12	Pk	36.9	-25.4	.4	11.8	-43.42	-13	-30.42	0-360	300	H
6	9.7687	-67.14	Pk	36.9	-25.6	.4	11.8	-43.64	-13	-30.64	0-360	200	V

Pk - Peak detector

QPSK LTE BAND 12 (10MHz, High Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.5993	-63.48	Pk	32.2	-33.9	.5	11.8	-52.88	-13	-39.88	0-360	299	H
4	2.8153	-63.37	Pk	32.4	-33.6	.3	11.8	-52.47	-13	-39.47	0-360	101	V
2	4.3813	-63.81	Pk	33.6	-31.1	.2	11.8	-49.31	-13	-36.31	0-360	200	H
5	4.5406	-64.59	Pk	34	-31.6	.4	11.8	-49.99	-13	-36.99	0-360	299	V
6	9.7678	-66.77	Pk	36.9	-25.5	.4	11.8	-43.17	-13	-30.17	0-360	101	V
3	9.7939	-67.2	Pk	37	-25.2	.4	11.8	-43.2	-13	-30.2	0-360	200	H

Pk - Peak detector

10.1.5. LTE BAND 13

LIMITS

FCC: §27.53

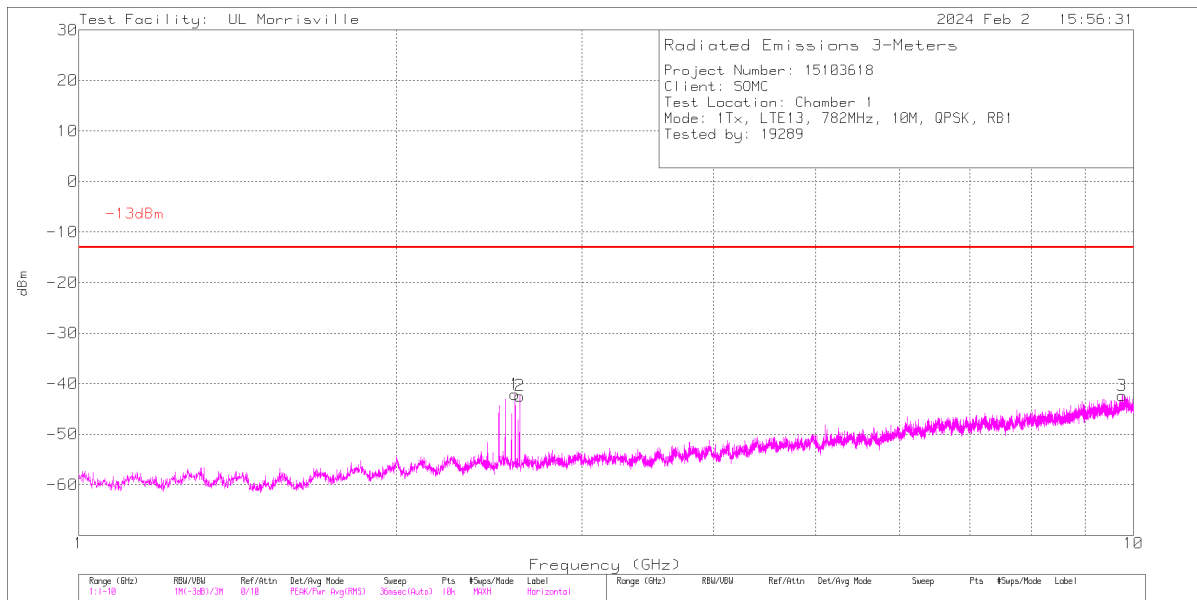
(c) The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

(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.

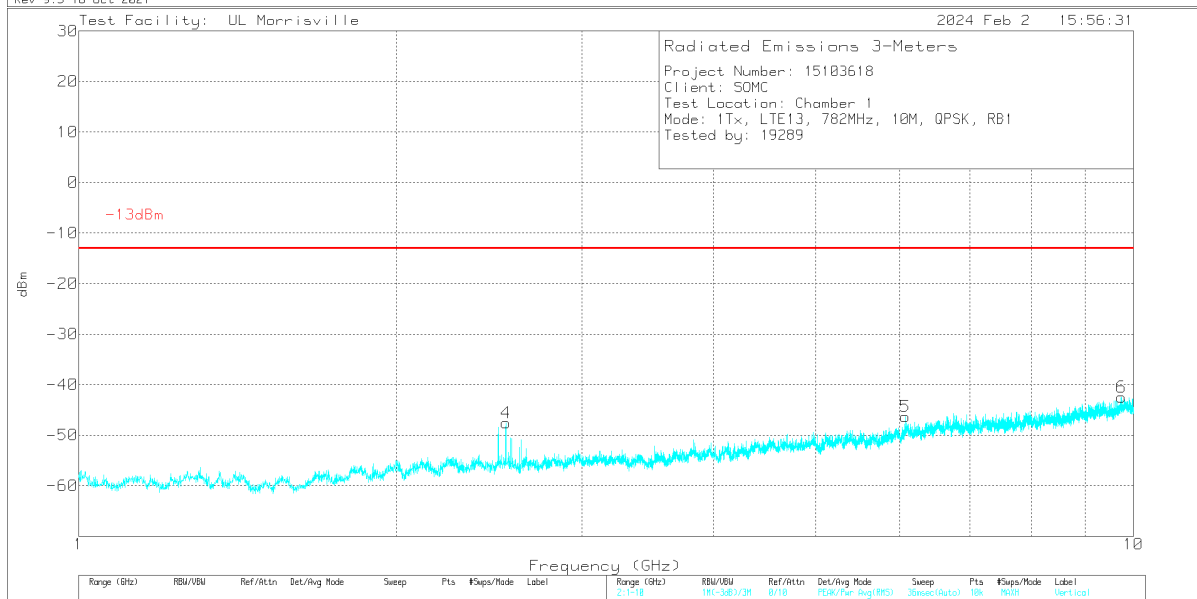
Note: Emissions in the GPS band were wideband emissions therefore the -40 dBm/MHz limit was used.

Main Antenna

EUT Serial Number: QV77006PLY
QPSK LTE BAND 13 (10MHz, Mid Channel)



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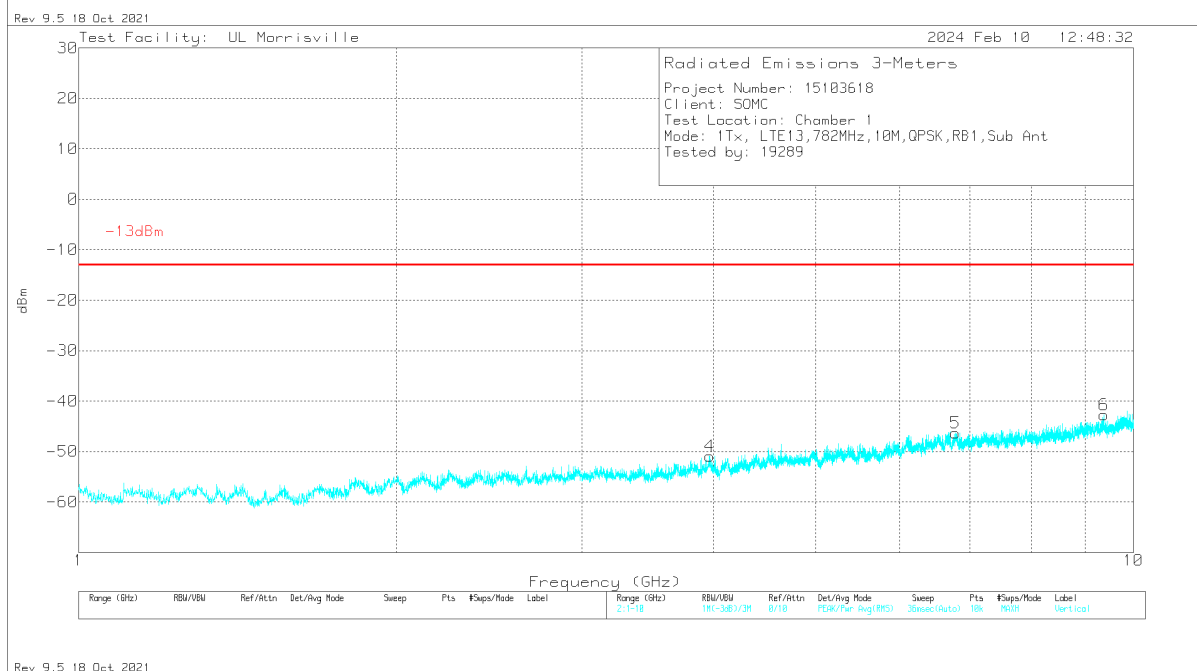
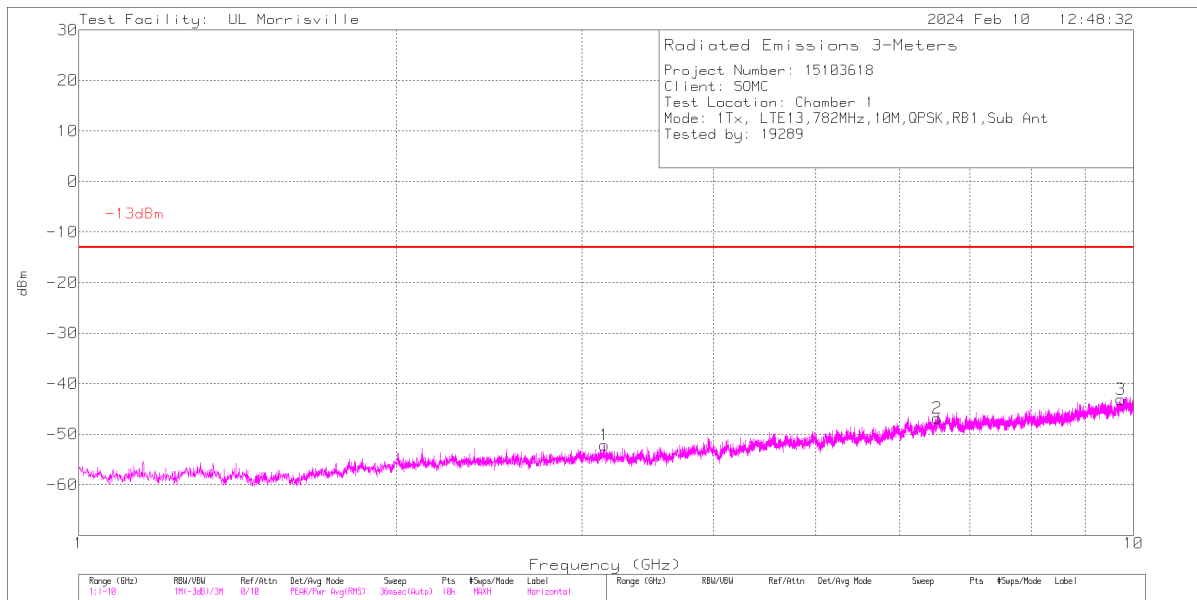
Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.5408	-58.17	Pk	32.3	-33.9	.4	11.8	-47.57	-13	-34.57	0-360	200	V
1	2.5921	-52.84	Pk	32.2	-33.8	.5	11.8	-42.14	-13	-29.14	0-360	101	H
2	2.6191	-52.81	Pk	32.1	-34	.5	11.8	-42.41	-13	-29.41	0-360	101	H
5	6.0742	-64.73	Pk	35.3	-29	.3	11.8	-46.33	-13	-33.33	0-360	101	V
6	9.7444	-66.22	Pk	36.9	-25.3	.4	11.8	-42.42	-13	-29.42	0-360	300	V
3	9.7534	-65.98	Pk	36.9	-25.5	.4	11.8	-42.38	-13	-29.38	0-360	299	H

Pk - Peak detector

Sub Antenna

EUT Serial Number: QV77008ELY
QPSK LTE BAND 13 (10MHz, Mid Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.1492	-64.37	Pk	33	-33.2	.6	11.8	-52.17	-13	-39.17	0-360	101	H
4	3.9637	-64.52	Pk	33.4	-31.7	.1	11.8	-50.92	-13	-37.92	0-360	300	V
2	6.5125	-65.89	Pk	35.5	-28.5	.3	11.8	-46.79	-13	-33.79	0-360	101	H
5	6.7798	-65.71	Pk	35.6	-28.4	.4	11.8	-46.31	-13	-33.31	0-360	300	V
6	9.3754	-65.56	Pk	36.4	-25.7	.3	11.8	-42.76	-13	-29.76	0-360	300	V
3	9.7354	-66.95	Pk	36.9	-25.3	.4	11.8	-43.15	-13	-30.15	0-360	199	H

Pk - Peak detector

10.1.6. LTE BAND 25

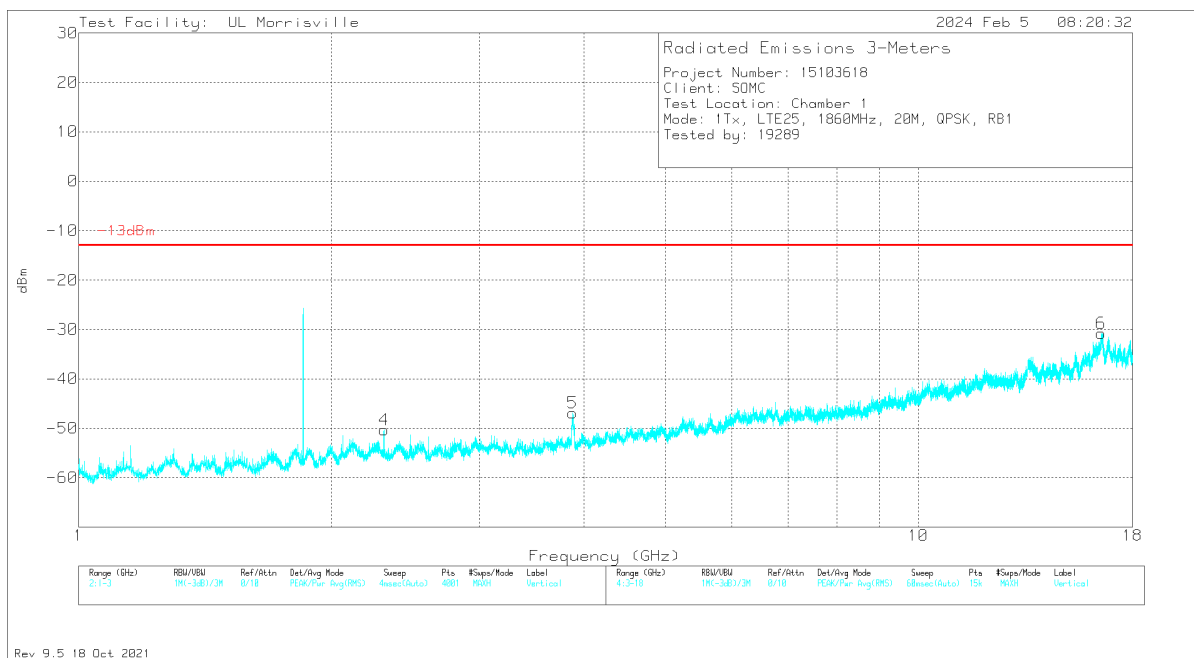
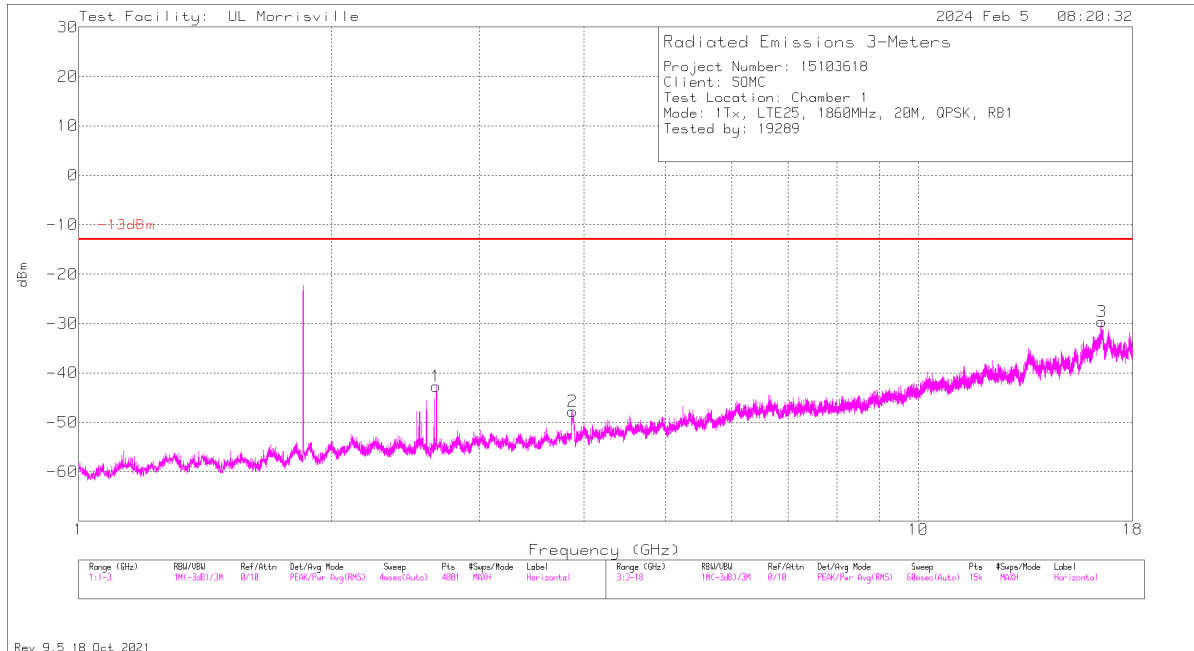
LIMITS

FCC: §24.238 (a)

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

EUT Serial Number: QV77006PLY

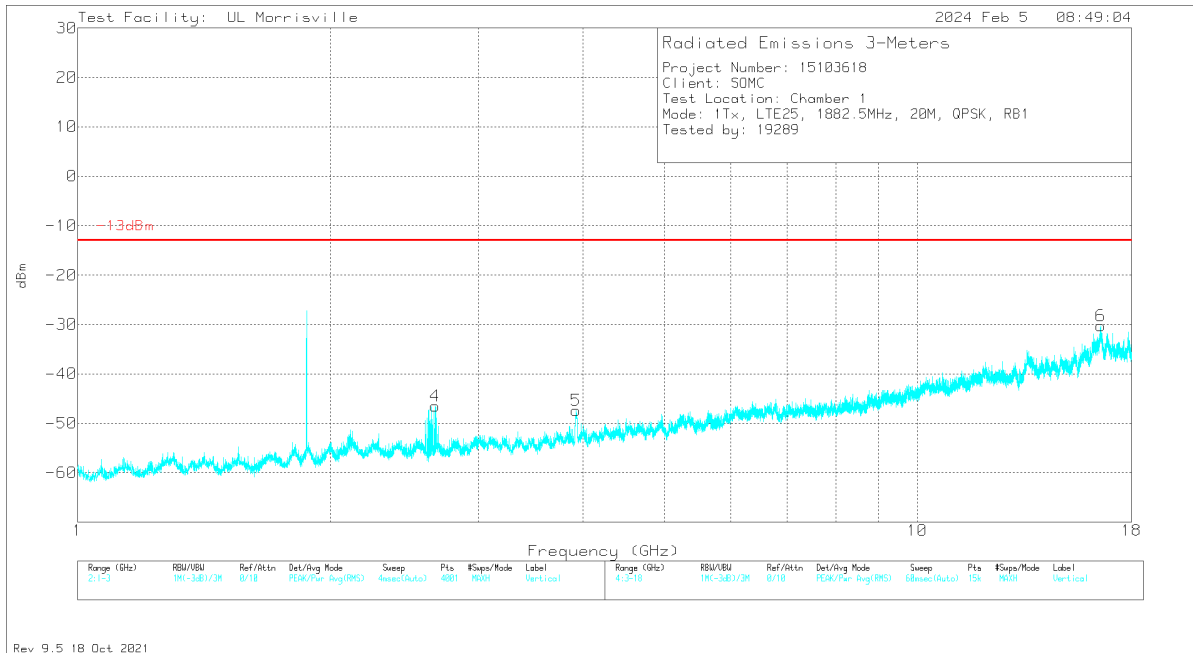
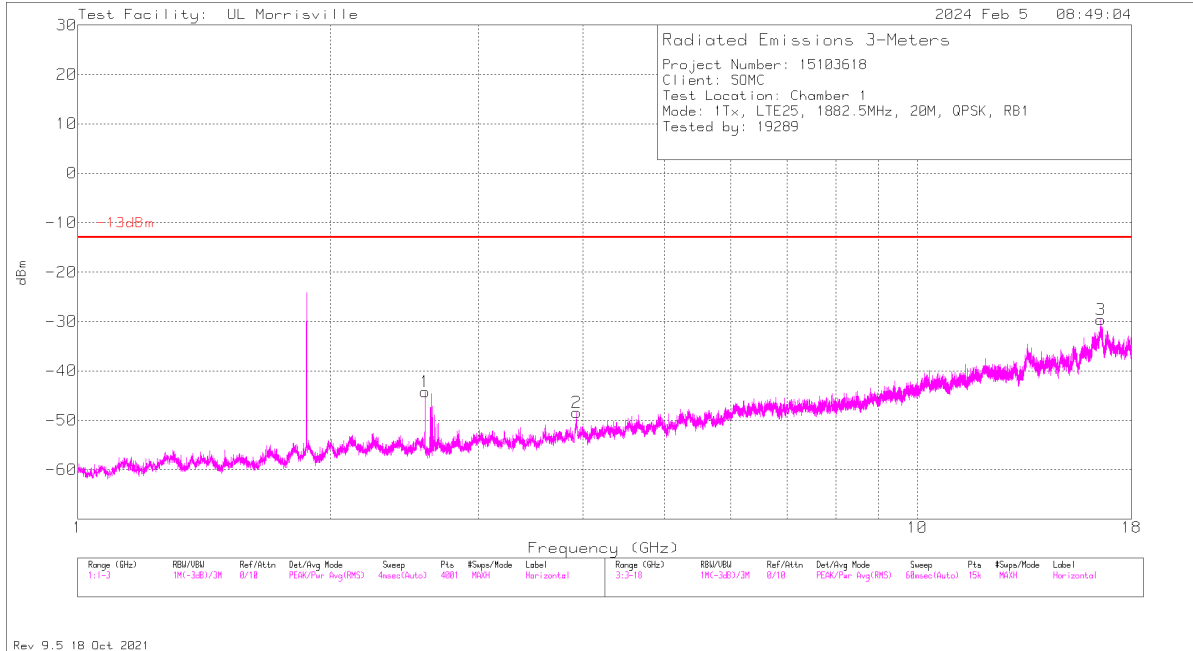
QPSK LTE BAND 25 (20MHz, Low Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.31	-60.67	Pk	31.9	-34.1	11.8	.7	-50.37	-13	-37.37	0-360	101	V
1	2.6675	-52.91	Pk	32	-34	11.8	.4	-42.71	-13	-29.71	0-360	101	H
2	3.875	-61.39	Pk	33.4	-31.6	11.8	0	-47.79	-13	-34.79	0-360	101	H
5	3.879	-60.54	Pk	33.4	-31.6	11.8	0	-46.94	-13	-33.94	0-360	300	V
6	16.531	-65.42	Pk	41.1	-18.3	11.8	0	-30.82	-13	-17.82	0-360	300	V
3	16.54	-64.69	Pk	41.1	-17.8	11.8	0	-29.59	-13	-16.59	0-360	200	H

Pk - Peak detector

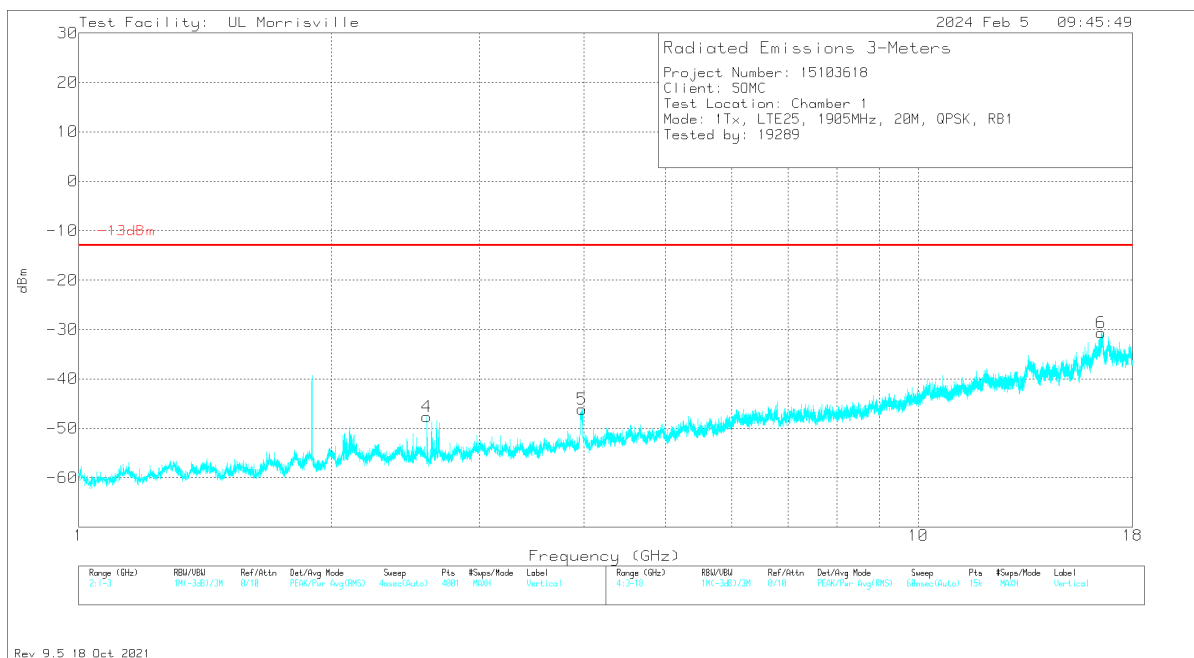
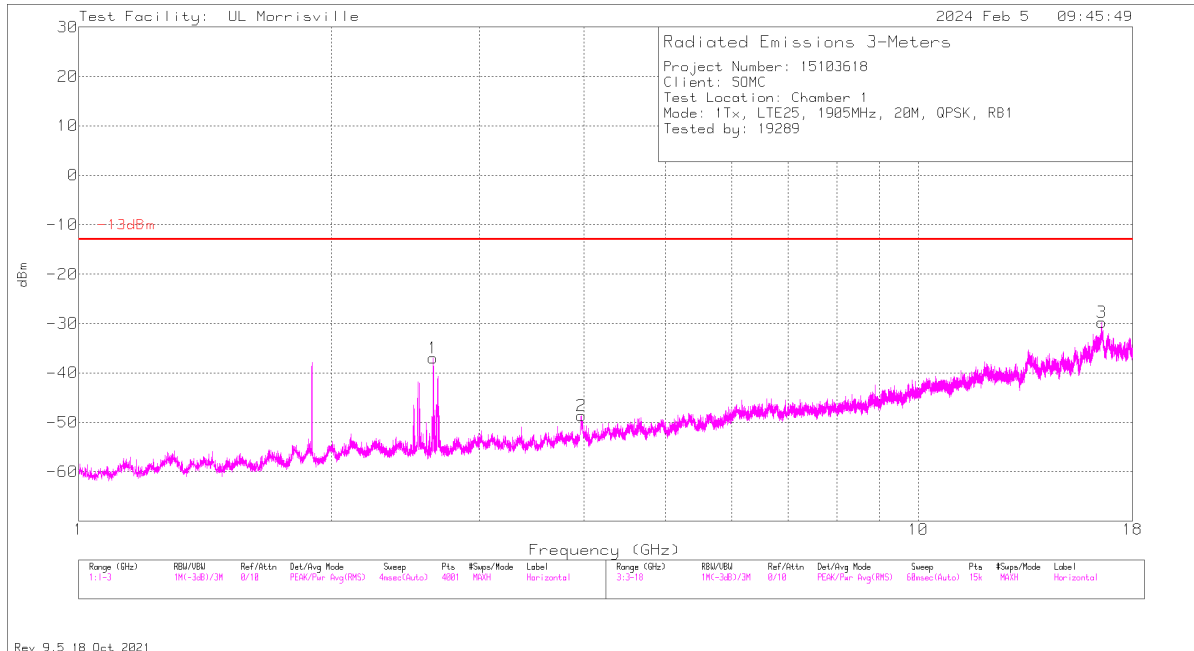
QPSK LTE BAND 25 (20MHz, Mid Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.5935	-54.98	Pk	32.2	-33.8	11.8	.5	-44.28	-13	-31.28	0-360	101	H
4	2.665	-56.65	Pk	32	-34	11.8	.4	-46.45	-13	-33.45	0-360	299	V
5	3.922	-61.09	Pk	33.4	-31.5	11.8	0	-47.39	-13	-34.39	0-360	300	V
2	3.929	-62.36	Pk	33.4	-31.3	11.8	0	-48.46	-13	-35.46	0-360	101	H
6	16.535	-65.09	Pk	41.1	-18.1	11.8	0	-30.29	-13	-17.29	0-360	101	V
3	16.545	-64.55	Pk	41.1	-18	11.8	0	-29.65	-13	-16.65	0-360	300	H

Pk - Peak detector

QPSK LTE BAND 25 (20MHz, High Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.6	-58.3	Pk	32.2	-33.9	11.8	.5	-47.7	-13	-34.7	0-360	101	V
1	2.645	-47.57	Pk	32.1	-33.8	11.8	.5	-36.97	-13	-23.97	0-360	101	H
2	3.969	-62.89	Pk	33.4	-31	11.8	0	-48.69	-13	-35.69	0-360	101	H
5	3.979	-60.06	Pk	33.4	-31.3	11.8	0	-46.16	-13	-33.16	0-360	300	V
6	16.514	-64.92	Pk	41.1	-18.6	11.8	0	-30.62	-13	-17.62	0-360	300	V
3	16.558	-64.58	Pk	41.2	-18.2	11.8	0	-29.78	-13	-16.78	0-360	200	H

Pk - Peak detector

10.1.7. 5G NR n25

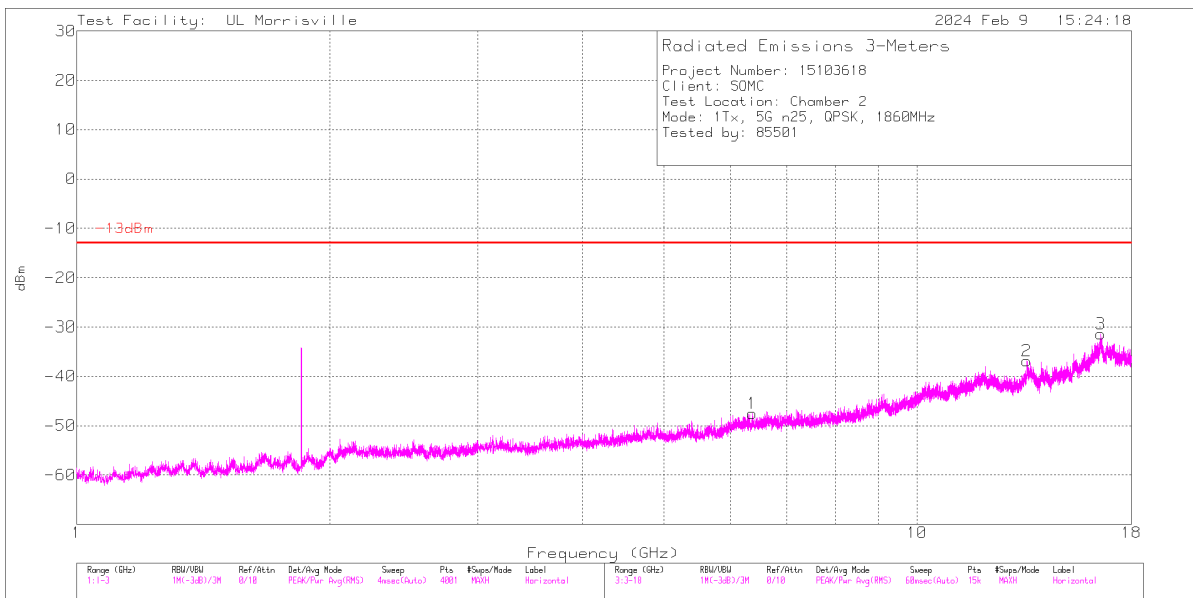
LIMITS

FCC: §24.238 (a)

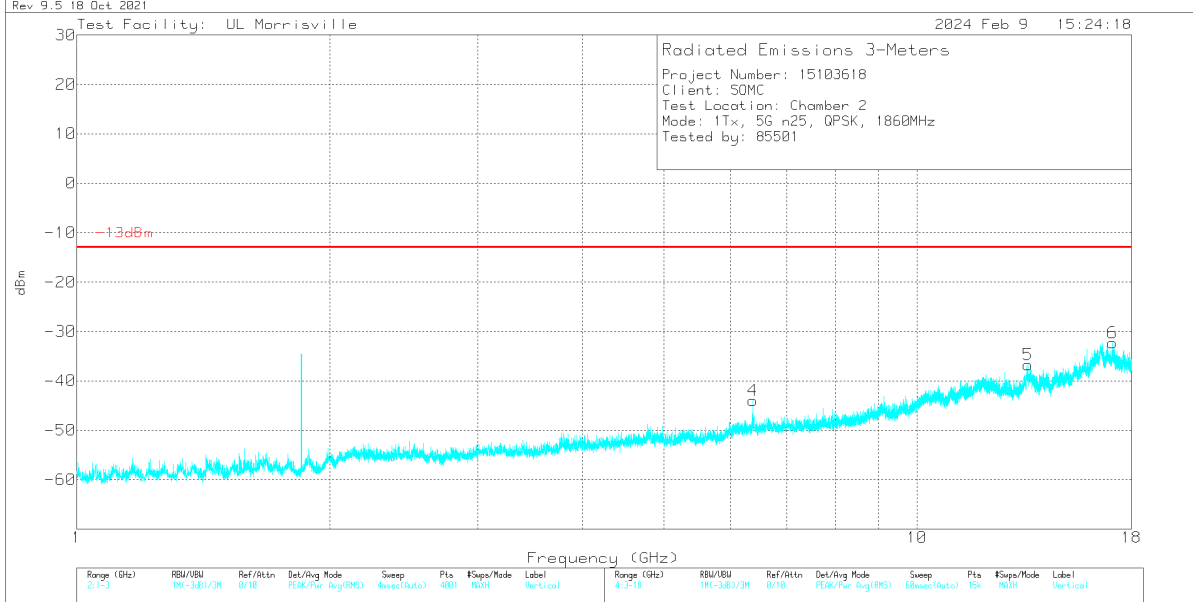
The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

EUT Serial Number: QV77006PLY

QPSK 5G NR N25 (20MHz, Low Channel)



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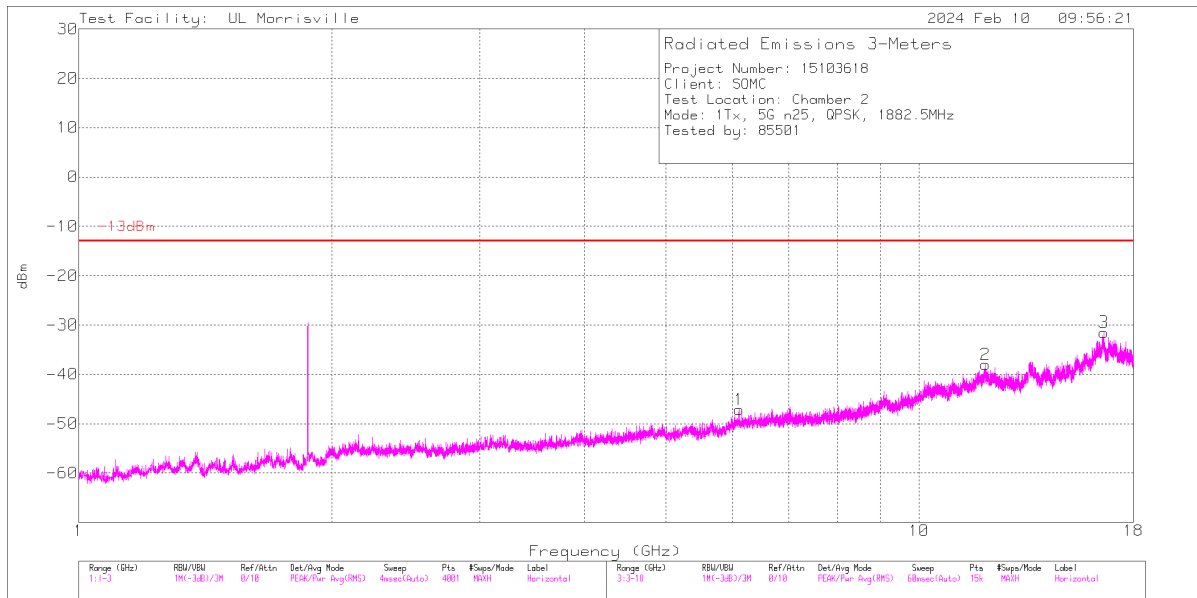


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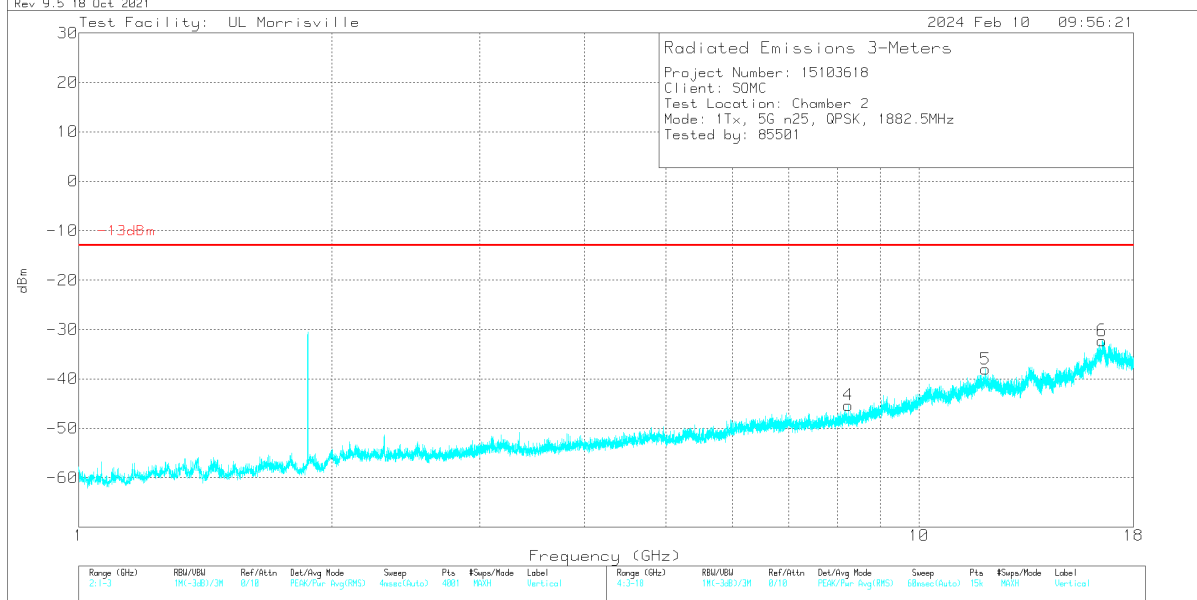
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.368	-67.42	Pk	35.7	-27.6	11.8	0	-47.52	-13	-34.52	0-360	199	H
4	6.376	-63.82	Pk	35.7	-27.6	11.8	0	-43.92	-13	-30.92	0-360	101	V
2	13.509	-64.74	Pk	38.9	-22.8	11.8	0	-36.84	-13	-23.84	0-360	199	H
5	13.549	-63.96	Pk	38.9	-23.5	11.8	0	-36.76	-13	-23.76	0-360	300	V
3	16.553	-65.66	Pk	40.7	-18.3	11.8	0	-31.46	-13	-18.46	0-360	300	H
6	17.089	-65.92	Pk	41.3	-19.5	11.8	0	-32.32	-13	-19.32	0-360	200	V

Pk - Peak detector

QPSK 5G NR N25 (20MHz, Mid Channel)



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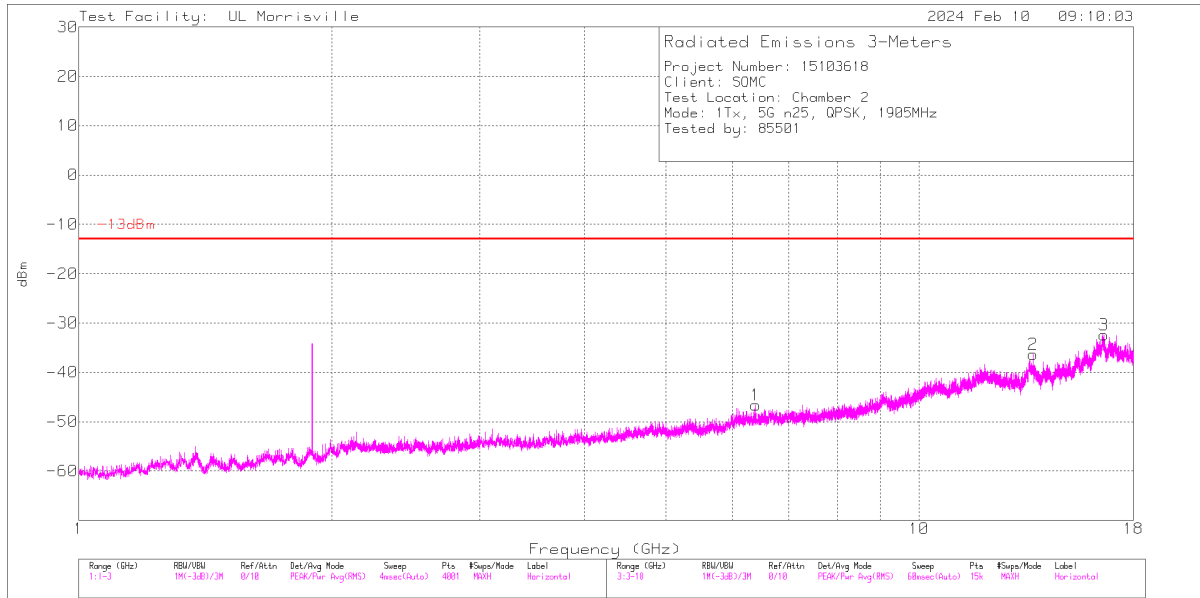


Rev 9.5 18 Oct 2021

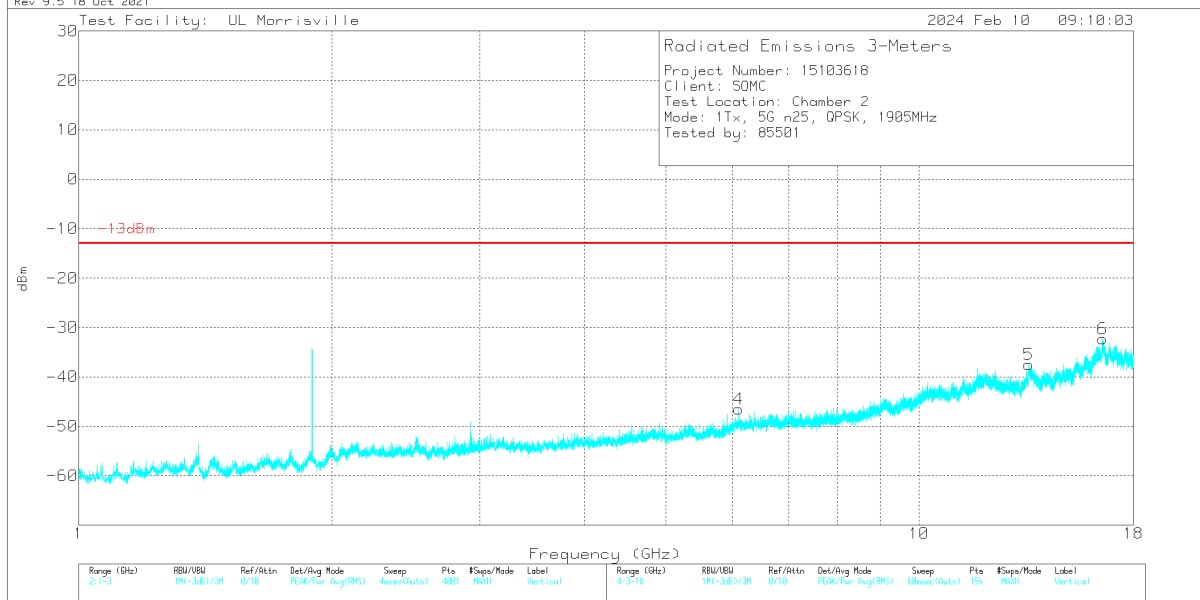
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.108	-66.22	Pk	35.5	-28.2	11.8	0	-47.12	-13	-34.12	0-360	199	H
4	8.24	-66.1	Pk	35.8	-26.8	11.8	0	-45.3	-13	-32.3	0-360	200	V
5	12	-65.87	Pk	38.9	-22.8	11.8	0	-37.97	-13	-24.97	0-360	300	V
2	12.001	-65.96	Pk	38.9	-22.7	11.8	0	-37.96	-13	-24.96	0-360	101	H
6	16.529	-66.43	Pk	40.7	-18.3	11.8	0	-32.23	-13	-19.23	0-360	200	V
3	16.598	-66.07	Pk	40.8	-18	11.8	0	-31.47	-13	-18.47	0-360	300	H

Pk - Peak detector

QPSK 5G NR N25 (20MHz, High Channel)



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Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	6.101	-65.76	Pk	35.5	-28.1	11.8	0	-46.56	-13	-33.56	0-360	300	V
1	6.395	-66.4	Pk	35.7	-27.7	11.8	0	-46.6	-13	-33.6	0-360	200	H
5	13.506	-65.34	Pk	38.9	-22.8	11.8	0	-37.44	-13	-24.44	0-360	300	V
2	13.67	-63.82	Pk	38.9	-23.2	11.8	0	-36.32	-13	-23.32	0-360	200	H
6	16.541	-66.96	Pk	40.7	-17.8	11.8	0	-32.26	-13	-19.26	0-360	200	V
3	16.595	-67.16	Pk	40.8	-17.9	11.8	0	-32.46	-13	-19.46	0-360	200	H

Pk - Peak detector

10.1.8. LTE BAND 30

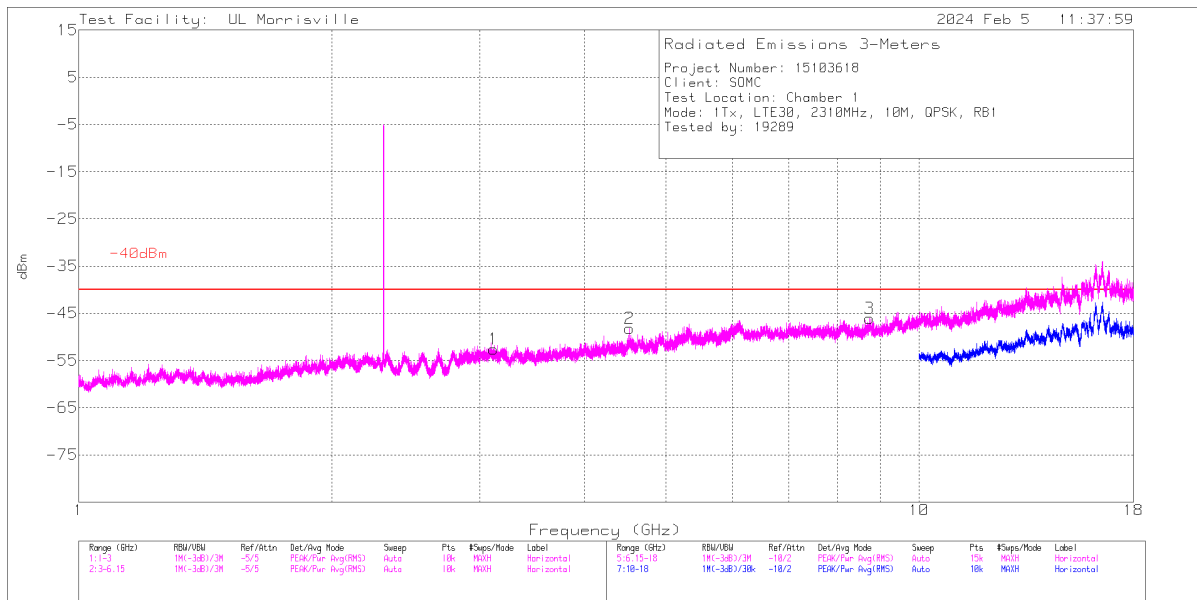
LIMITS

FCC: §27.53 (a)

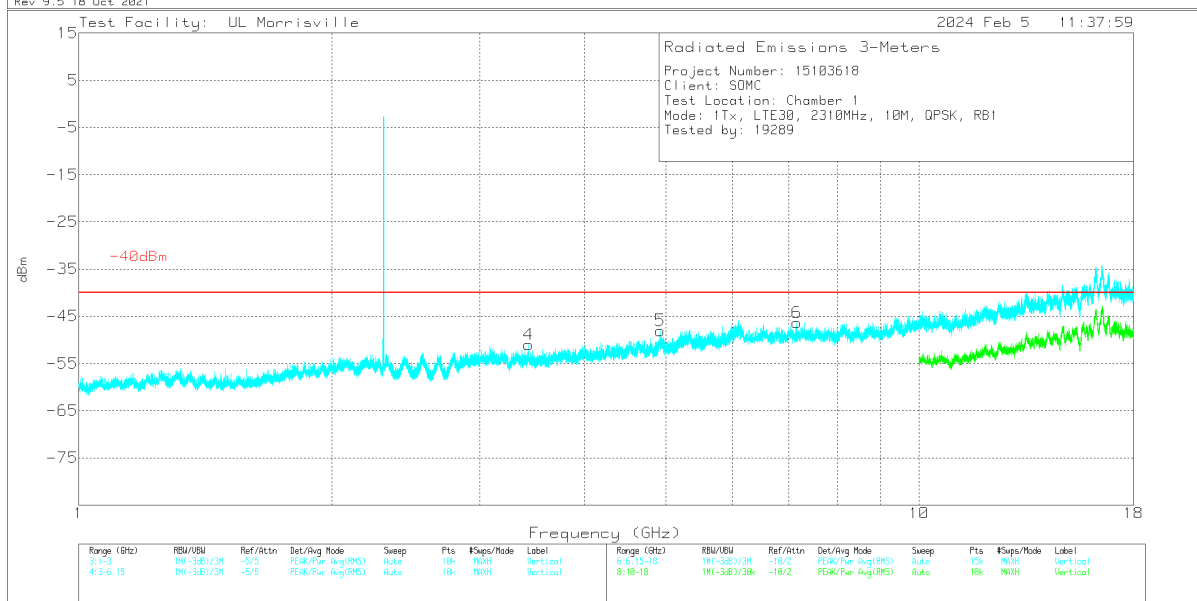
The minimum permissible attenuation level of any spurious emissions is $70 + 10 \log (P)$ dB where transmitting power (P) in Watts.

Main Antenna

**EUT Serial Number: QV77006PLY
 QPSK LTE BAND 30 (10MHz, Mid Channel)**



Rev 9.5 18 Oct 2021



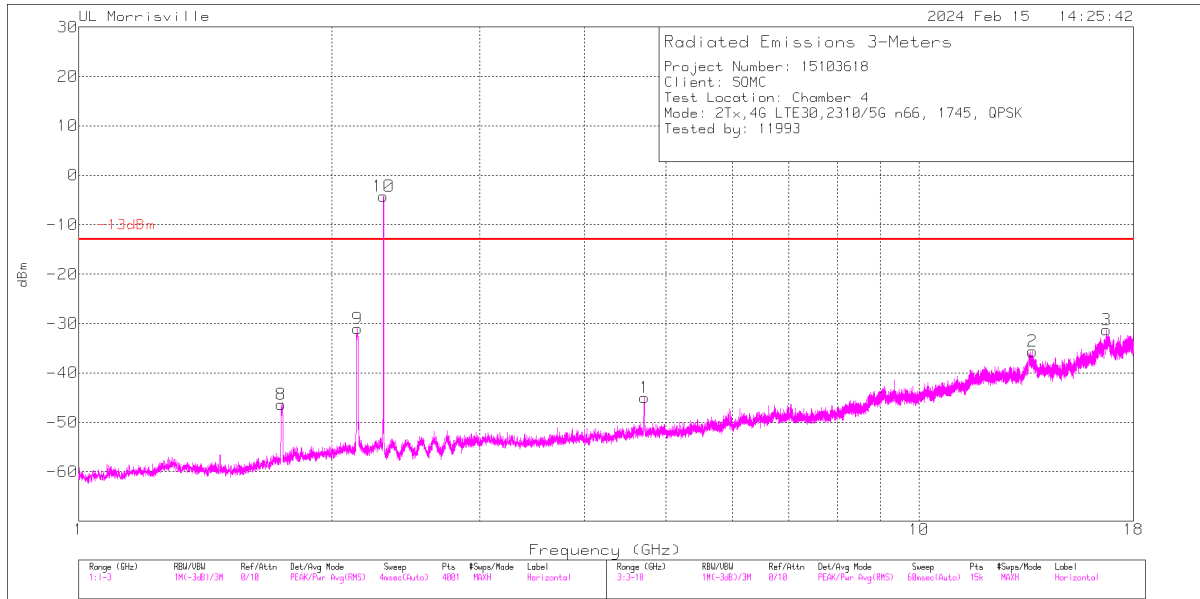
Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.11592	-65.44	Pk	33	-32.5	11.8	.6	-52.54	-40	-12.54	0-360	201	H
4	3.43313	-63.75	Pk	32.6	-32.4	11.8	.8	-50.95	-40	-10.95	0-360	300	V
2	4.52208	-63.74	Pk	34	-30.8	11.8	.5	-48.24	-40	-8.24	0-360	300	H
5	4.91804	-64.12	Pk	34	-30.2	11.8	.5	-48.02	-40	-8.02	0-360	101	V
6	7.16041	-66.67	Pk	35.6	-27.1	11.8	0	-46.37	-40	-6.37	0-360	101	V
3	8.72856	-67.48	Pk	35.9	-26.3	11.8	0	-46.08	-40	-6.08	0-360	101	H

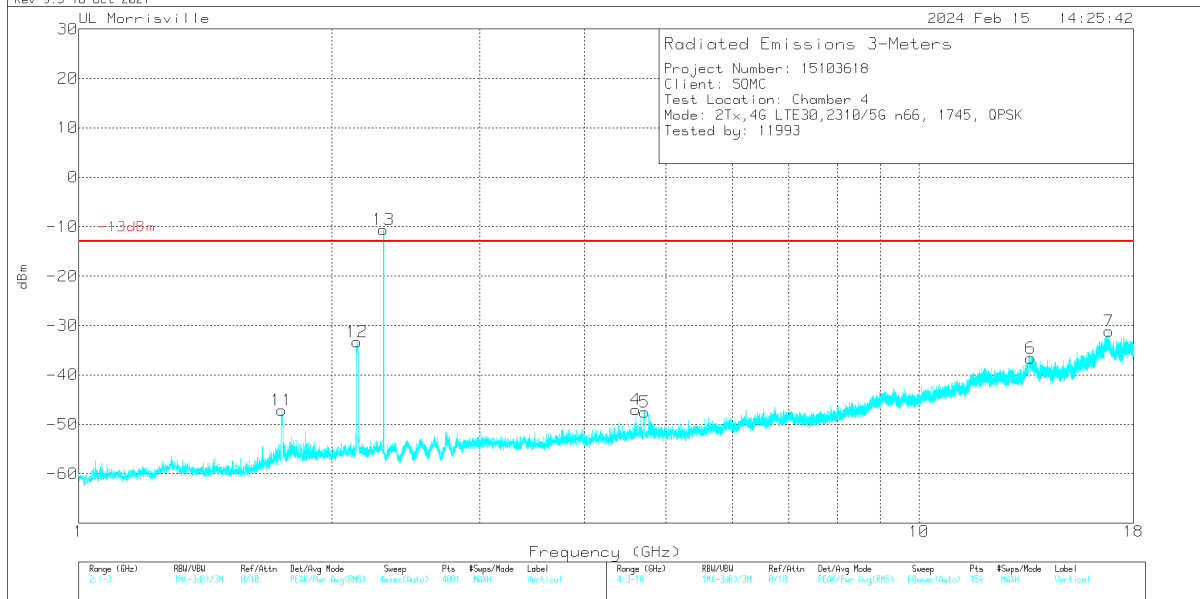
Pk - Peak detector

Sub Antenna

**EUT Serial Number: QV77008ELY
QPSK LTE BAND 30 (10MHz, Mid Channel)**



Rev 9.5 18 Oct 2021



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Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	4.602	-61.08	Pk	34.1	-31.8	11.8	0	-46.98	-13	-33.98	0-360	200	V
1	4.711	-59.42	Pk	34.1	-31.5	11.8	0	-45.02	-13	-32.02	0-360	100	H
5	4.714	-61.92	Pk	34.1	-31.5	11.8	0	-47.52	-13	-34.52	0-360	300	V
6	13.577	-65.29	Pk	38.7	-21.8	11.8	0	-36.59	-13	-23.59	0-360	200	V
2	13.652	-64.45	Pk	38.6	-21.6	11.8	0	-35.65	-13	-22.65	0-360	200	H
3	16.721	-65.63	Pk	41.8	-19.3	11.8	0	-31.33	-13	-18.33	0-360	200	H
7	16.837	-65.38	Pk	41.9	-19.5	11.8	0	-31.18	-13	-18.18	0-360	200	V
8	1.742	-52.05	Pk	29.5	-36.2	11.8	.6	-46.35	-	-	0-360	100	H
11	1.743	-52.89	Pk	29.6	-36.3	11.8	.6	-47.19	-	-	0-360	200	V
12	2.1425	-41.61	Pk	31.5	-36.2	11.8	1.2	-33.31	-	-	0-360	300	V
9	2.1465	-39.35	Pk	31.6	-36.3	11.8	1.2	-31.05	-	-	0-360	100	H
10	2.3055	-12.99	Pk	32	-36.3	11.8	1.2	-4.29	-	-	0-360	100	H
13	2.3055	-19.26	Pk	32	-36.3	11.8	1.2	-10.56	-	-	0-360	300	V

Pk - Peak detector

10.1.9. 5G NR N30

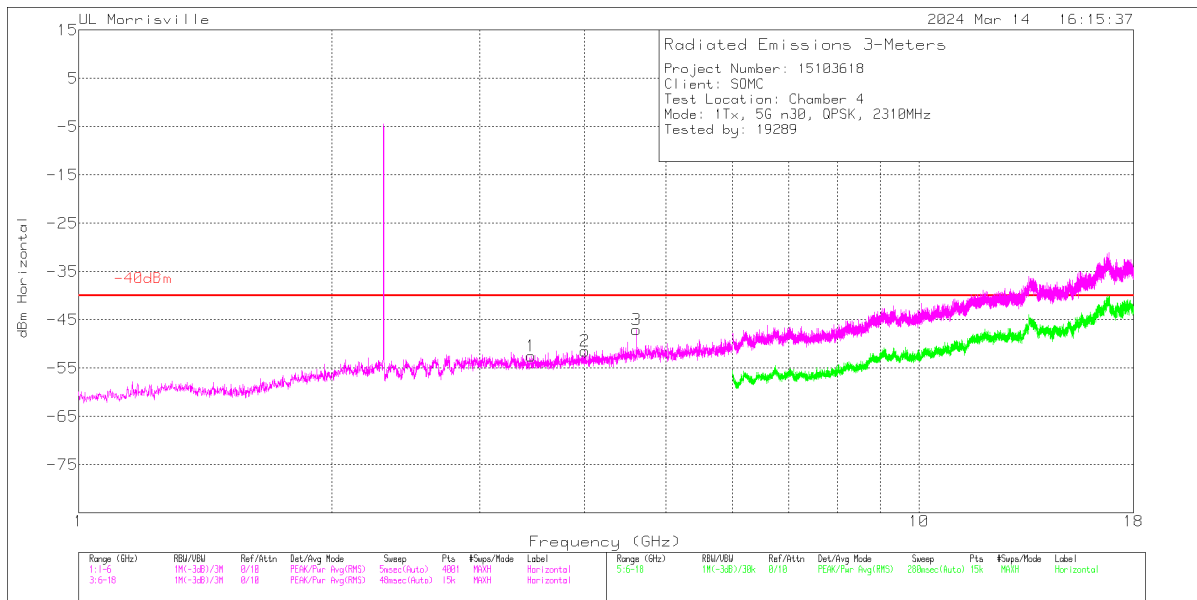
LIMITS

FCC: §27.53 (a)

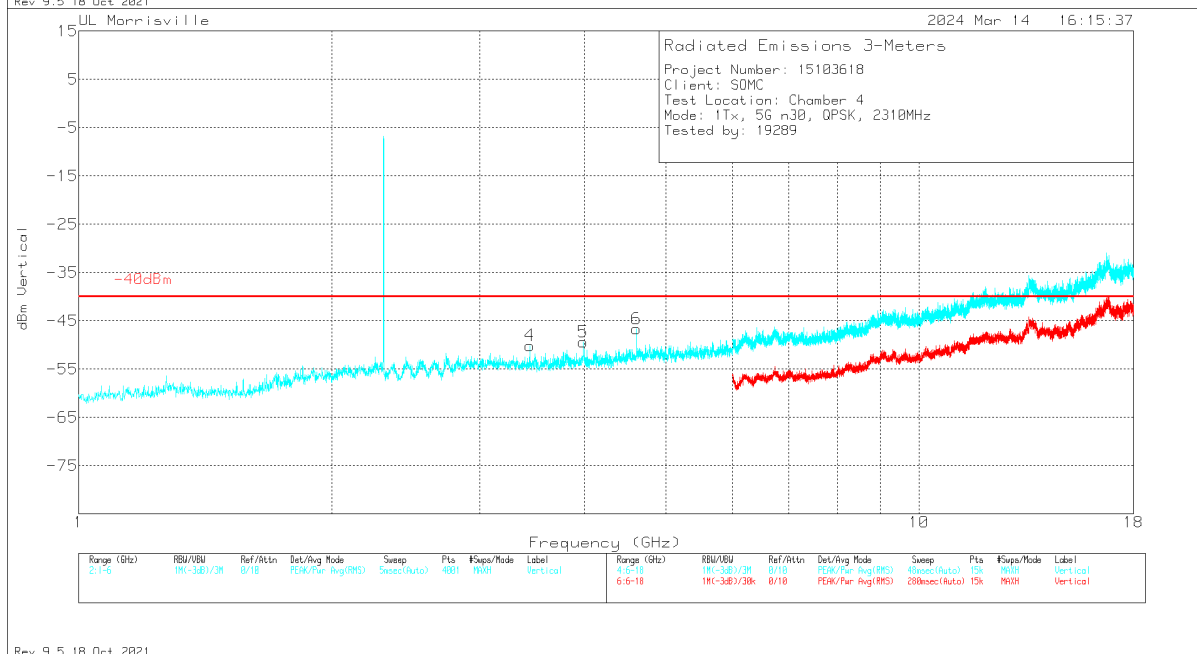
The minimum permissible attenuation level of any spurious emissions is $70 + 10 \log (P)$ dB where transmitting power (P) in Watts.

Main Antenna

**EUT Serial Number: QV77006PLY
 QPSK 5G NR N30 (10MHz, Mid Channel)**



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Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	3.44375	-60.88	Pk	32.8	-34.6	11.8	.8	-50.08	-40	-10.08	0-360	200	V
1	3.45375	-63.22	Pk	32.8	-34.7	11.8	.8	-52.52	-40	-12.52	0-360	100	H
5	3.98375	-61.78	Pk	33.4	-33.2	11.8	.4	-49.38	-40	-9.38	0-360	200	V
2	4.00625	-64.04	Pk	33.4	-33	11.8	.4	-51.44	-40	-11.44	0-360	100	H
3	4.61045	-58.61	Pk	34.1	-32.3	11.8	.5	-44.51	-40	-4.51	0	127	H
6	4.61079	-59.46	Pk	34.1	-32.3	11.8	.5	-45.36	-40	-5.36	65	265	V

Pk - Peak detector

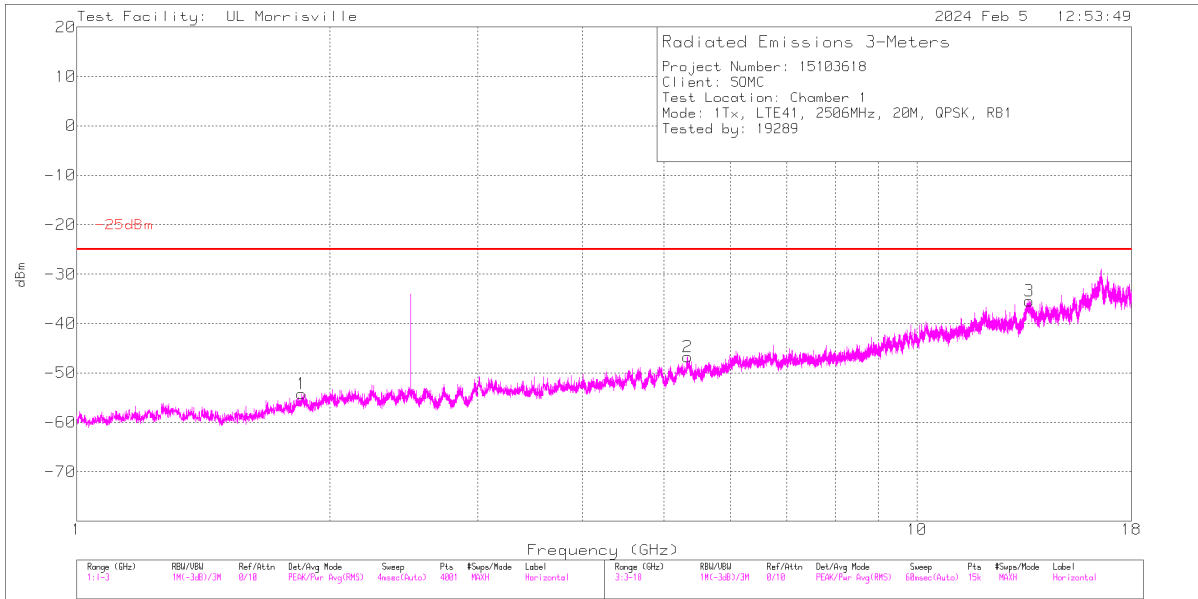
10.1.10. LTE BAND 41

FCC: §27.53 (m)

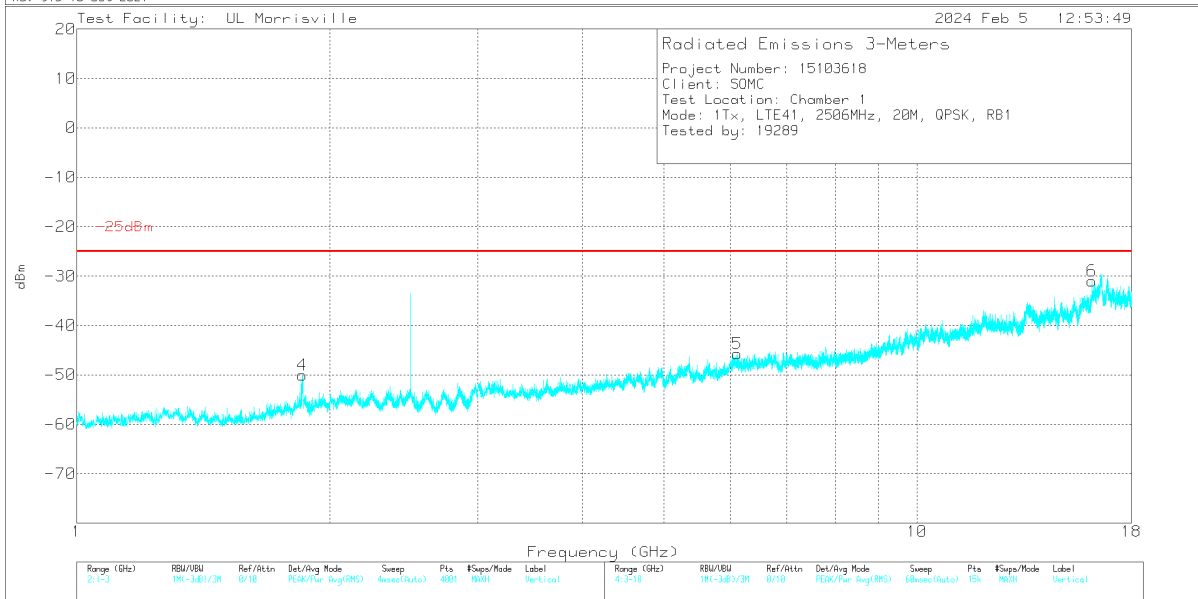
At least $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section.

Main Antenna

**EUT Serial Number: QV77006PLY
 QPSK LTE BAND 41 20MHz, Low Channel)**



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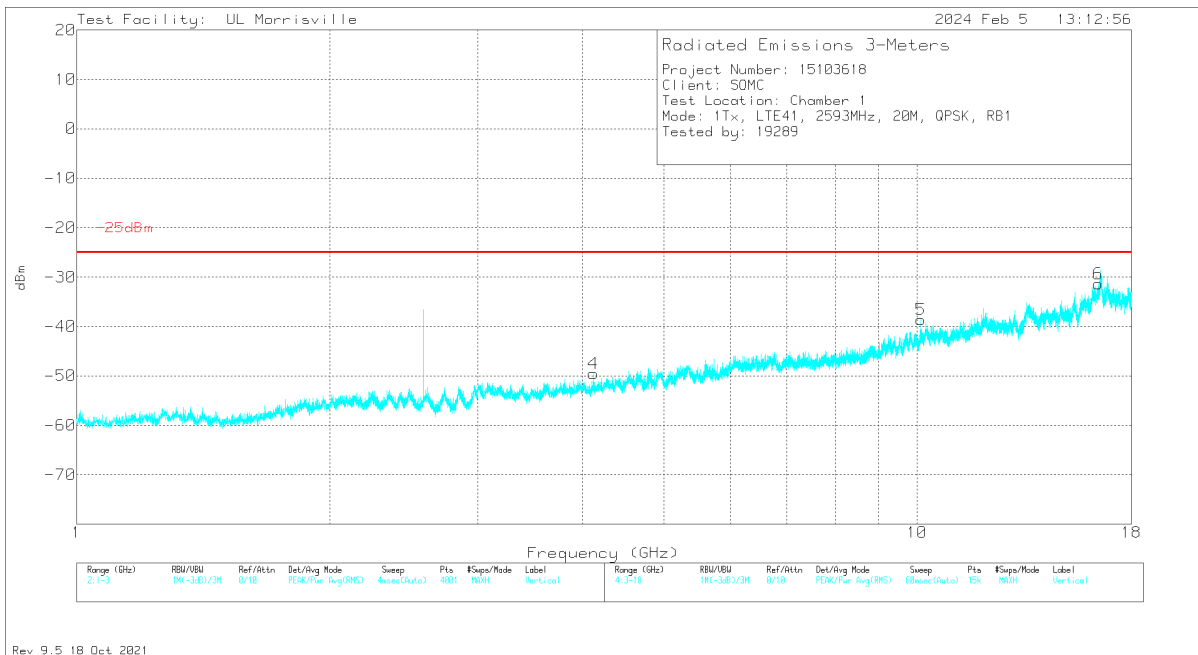
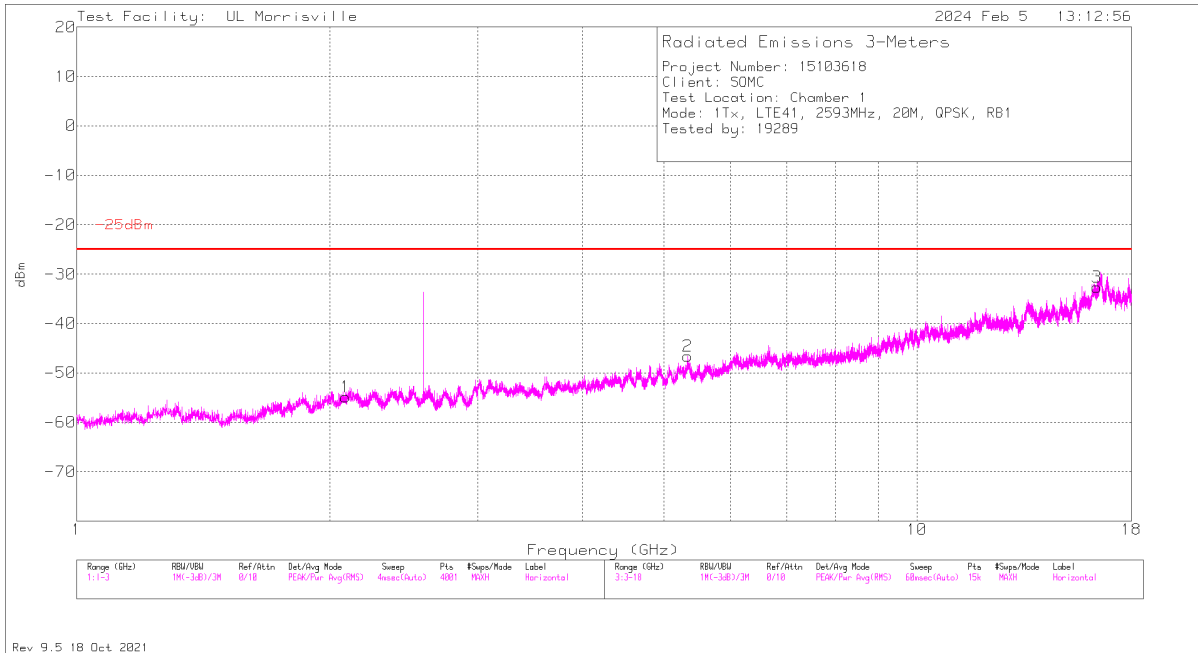


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Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.852	-63.22	Pk	30.5	-34.3	11.8	1	-54.22	-25	-29.22	0-360	200	H
4	1.856	-59.09	Pk	30.5	-34.2	11.8	1	-49.99	-25	-24.99	0-360	300	V
2	5.338	-65.54	Pk	34.5	-28.4	11.8	.9	-46.74	-25	-21.74	0-360	101	H
5	6.107	-65.02	Pk	35.3	-28.2	11.8	.4	-45.72	-25	-20.72	0-360	200	V
3	13.606	-63.13	Pk	38.9	-23.7	11.8	.7	-35.43	-25	-10.43	0-360	200	H
6	16.16	-65.64	Pk	40.6	-18.8	11.8	1	-31.04	-25	-6.04	0-360	299	V

Pk - Peak detector

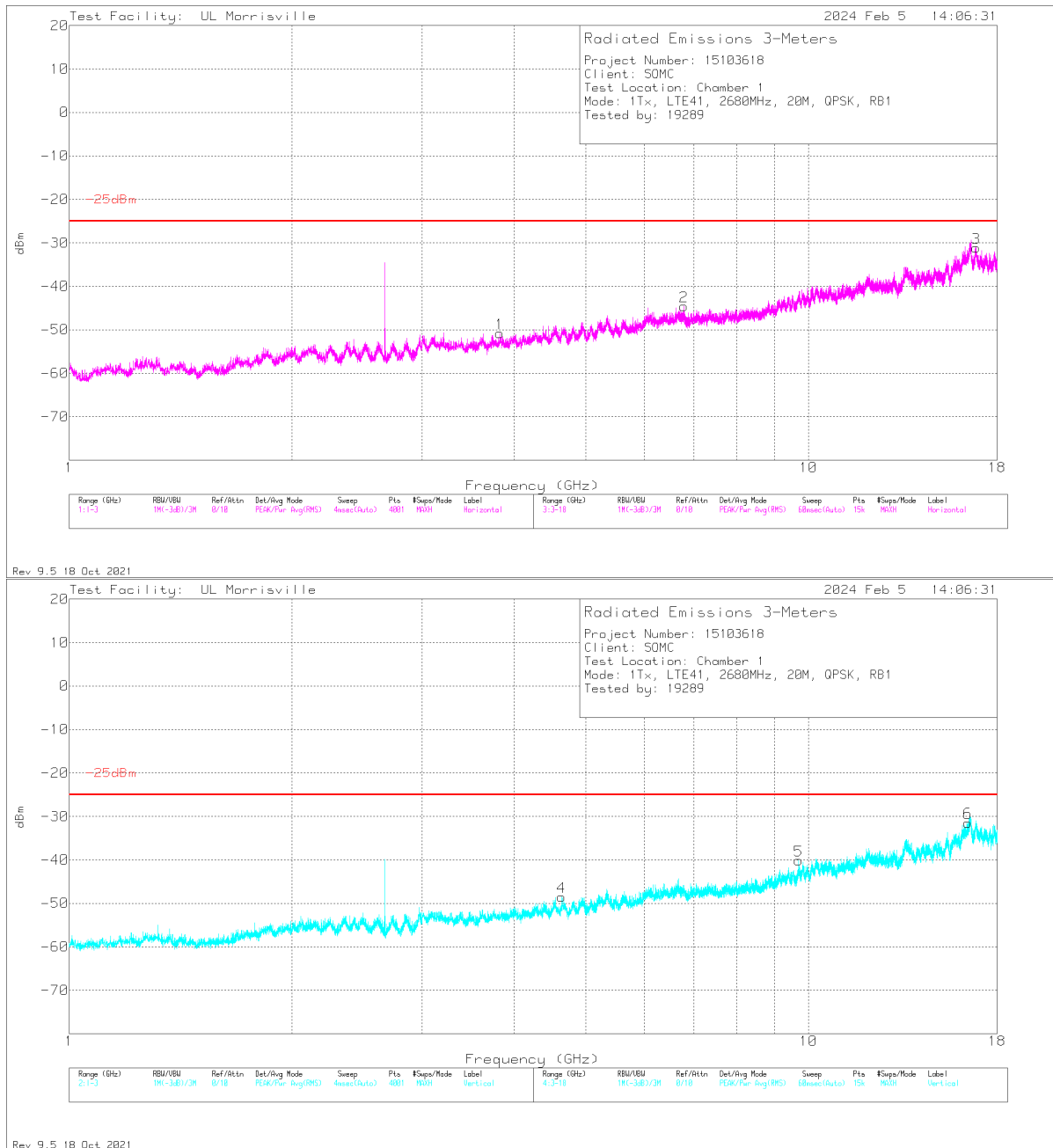
QPSK LTE BAND 41 20MHz, Mid Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.088	-65.03	Pk	31.5	-34.3	11.8	1.2	-54.83	-25	-29.83	0-360	199	H
4	4.12	-63.98	Pk	33.3	-31.2	11.8	.5	-49.58	-25	-24.58	0-360	300	V
2	5.333	-65.36	Pk	34.5	-28.4	11.8	.9	-46.56	-25	-21.56	0-360	199	H
5	10.102	-64.85	Pk	37.6	-24.6	11.8	1.4	-38.65	-25	-13.65	0-360	300	V
3	16.386	-66.62	Pk	40.8	-19.8	11.8	1.2	-32.62	-25	-7.62	0-360	101	H
6	16.435	-65.39	Pk	40.9	-20	11.8	1.3	-31.39	-25	-6.39	0-360	300	V

Pk - Peak detector

QPSK LTE BAND 41 20MHz, High Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.823	-64.55	Pk	33.4	-31.8	11.8	.4	-50.75	-25	-25.75	0-360	299	H
4	4.637	-64.38	Pk	34.2	-30.8	11.8	.7	-48.48	-25	-23.48	0-360	199	V
2	6.78	-64.47	Pk	35.6	-28	11.8	.5	-44.57	-25	-19.57	0-360	101	H
5	9.694	-65.33	Pk	36.8	-25	11.8	1.6	-40.13	-25	-15.13	0-360	300	V
6	16.433	-65.54	Pk	40.9	-19.9	11.8	1.3	-31.44	-25	-6.44	0-360	101	V
3	16.866	-67.42	Pk	41.7	-18.5	11.8	1.3	-31.12	-25	-6.12	0-360	101	H

Pk - Peak detector

10.1.11. 5G NR n41

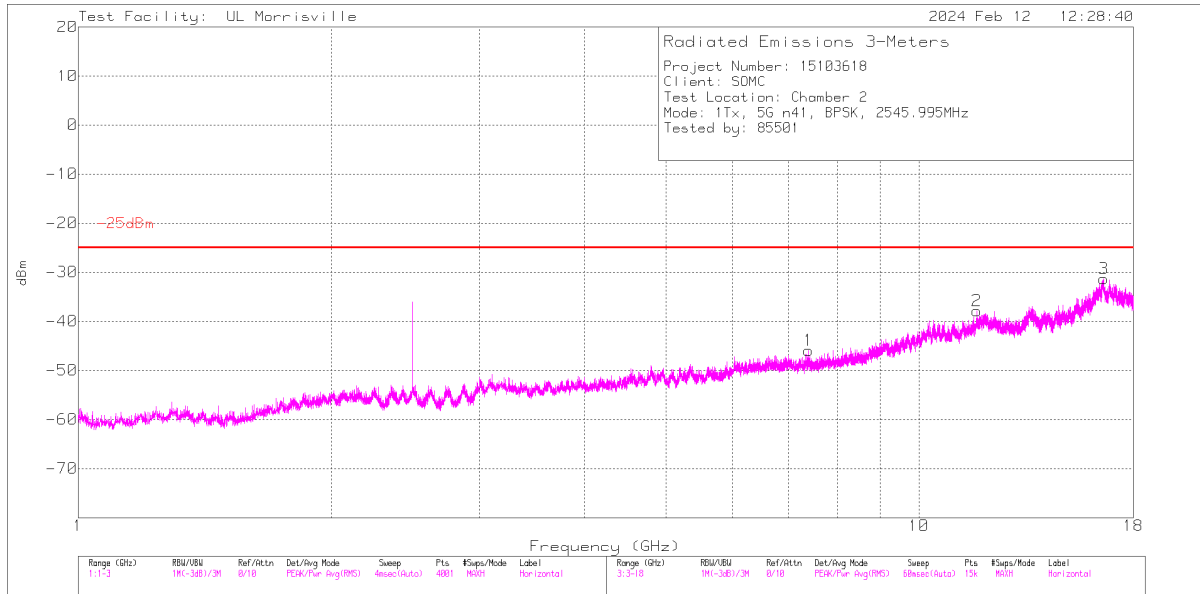
FCC: §27.53 (m)

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.

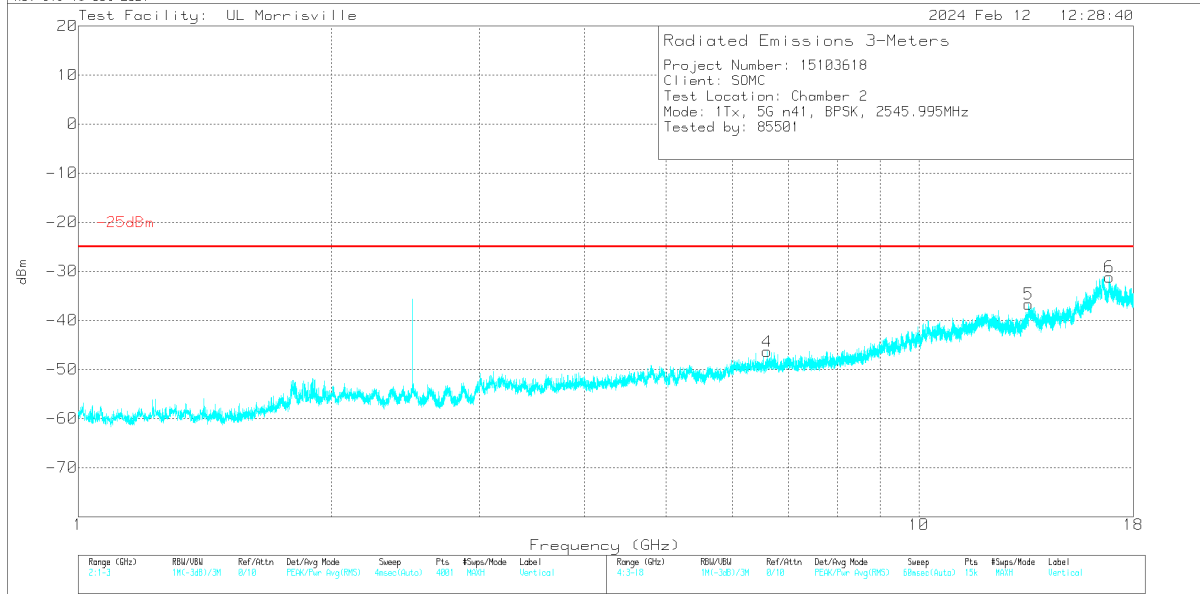
EUT Serial Number: QV77006PLY

Main Antenna

BPSK 5G NR N41 (100MHz, Low Channel)



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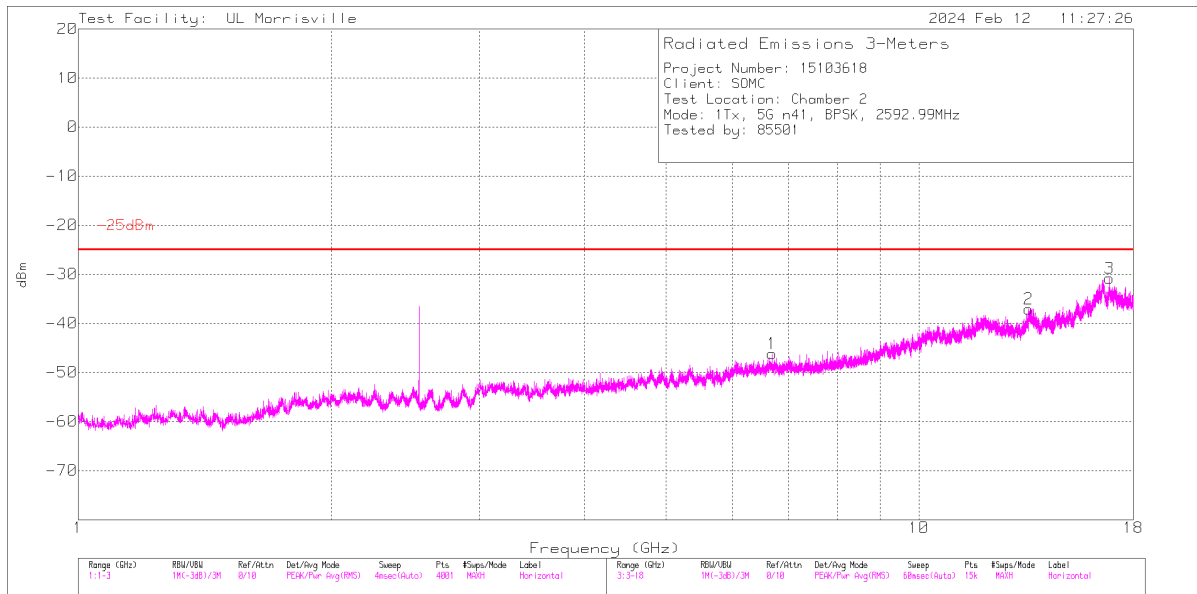


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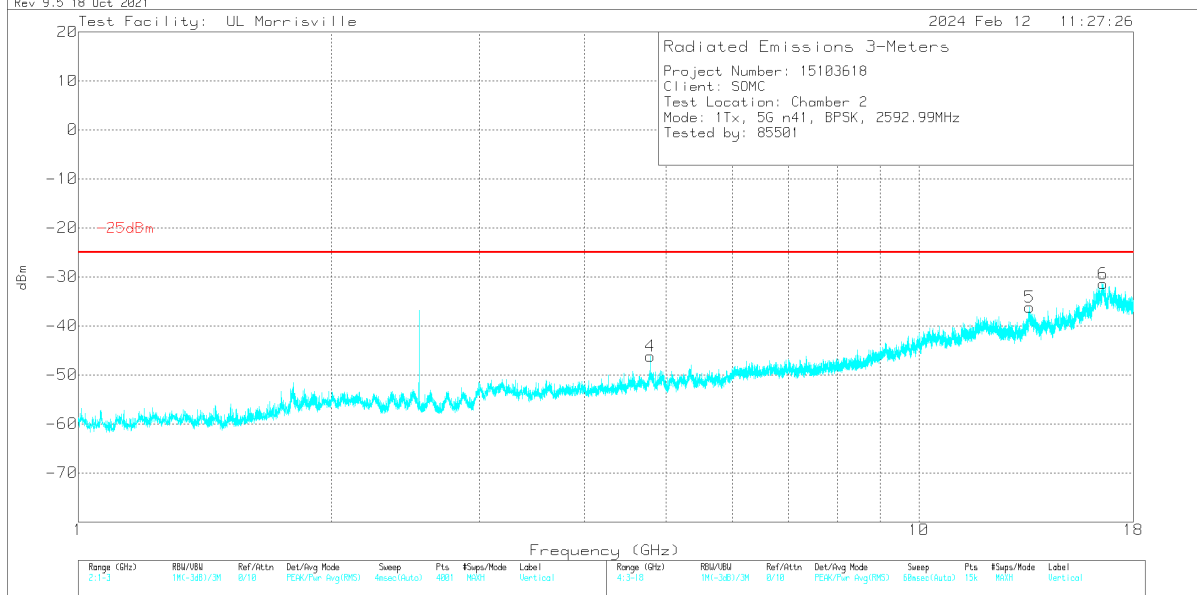
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	6.596	-66.76	Pk	35.6	-27.6	11.8	.6	-46.36	-25	-21.36	0-360	101	V
1	7.398	-67.07	Pk	35.6	-26.6	11.8	.4	-45.87	-25	-20.87	0-360	200	H
2	11.714	-66.58	Pk	38.5	-22.5	11.8	.9	-37.88	-25	-12.88	0-360	299	H
5	13.509	-65.04	Pk	38.9	-22.8	11.8	.5	-36.64	-25	-11.64	0-360	101	V
3	16.594	-67.17	Pk	40.8	-17.9	11.8	1.2	-31.27	-25	-6.27	0-360	200	H
6	16.857	-67.47	Pk	41.2	-18	11.8	1.3	-31.17	-25	-6.17	0-360	101	V

Pk - Peak detector

BPSK 5G NR N41 (100MHz, Mid Channel)



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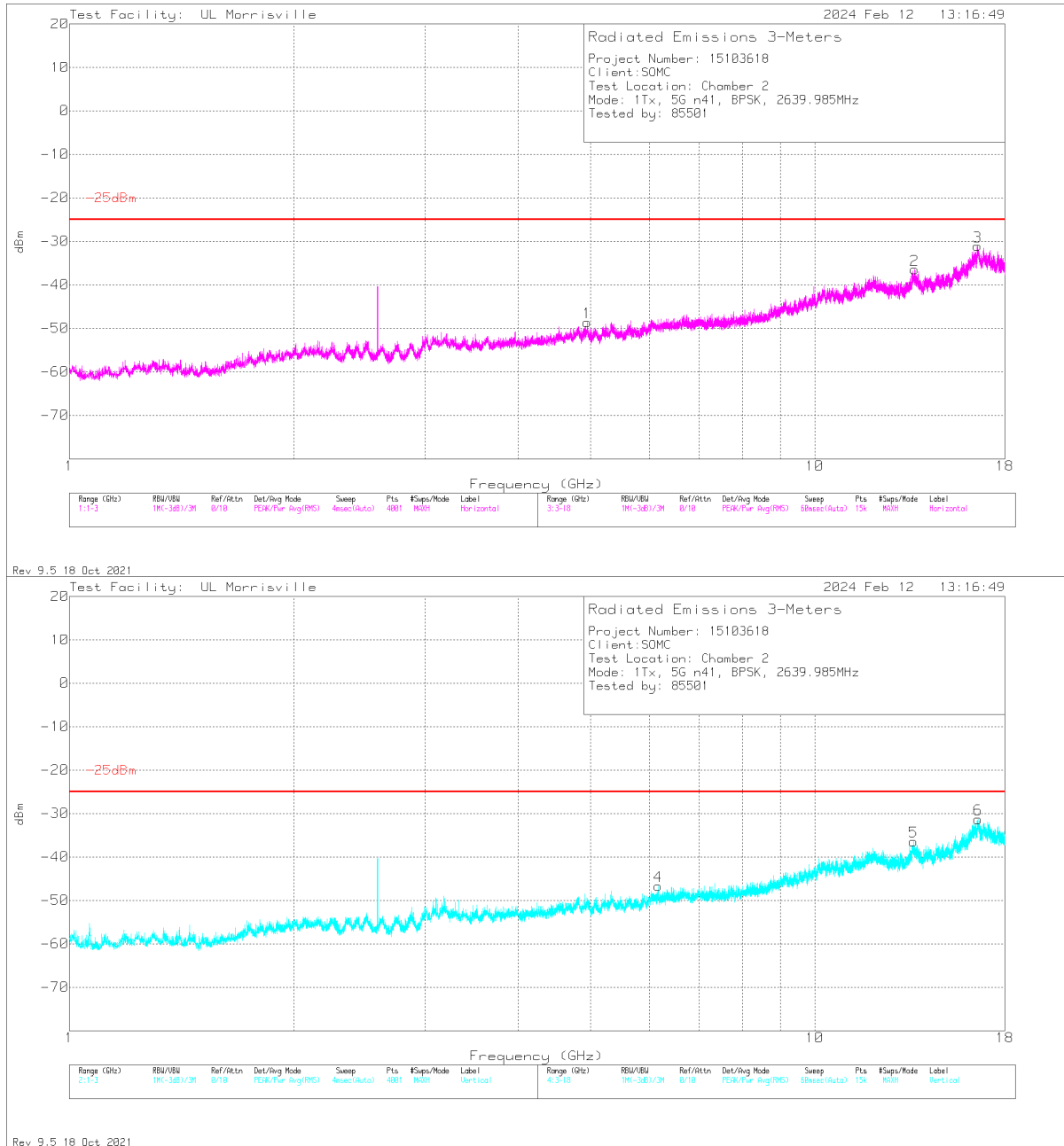


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Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	4.793	-62.75	Pk	34.2	-30.4	11.8	1	-46.15	-25	-21.15	0-360	101	V
1	6.69	-66.56	Pk	35.6	-27.5	11.8	.5	-46.16	-25	-21.16	0-360	300	H
2	13.51	-65.42	Pk	38.9	-22.8	11.8	.5	-37.02	-25	-12.02	0-360	101	H
5	13.542	-64.27	Pk	38.9	-23.2	11.8	.6	-36.17	-25	-11.17	0-360	101	V
6	16.569	-66.97	Pk	40.7	-18.3	11.8	1.4	-31.37	-25	-6.37	0-360	200	V
3	16.85516	-66.73	Pk	41.2	-18	11.8	1.3	-30.43	-25	-5.43	174	221	H

Pk - Peak detector

BPSK 5G NR N41 (100MHz, High Channel)

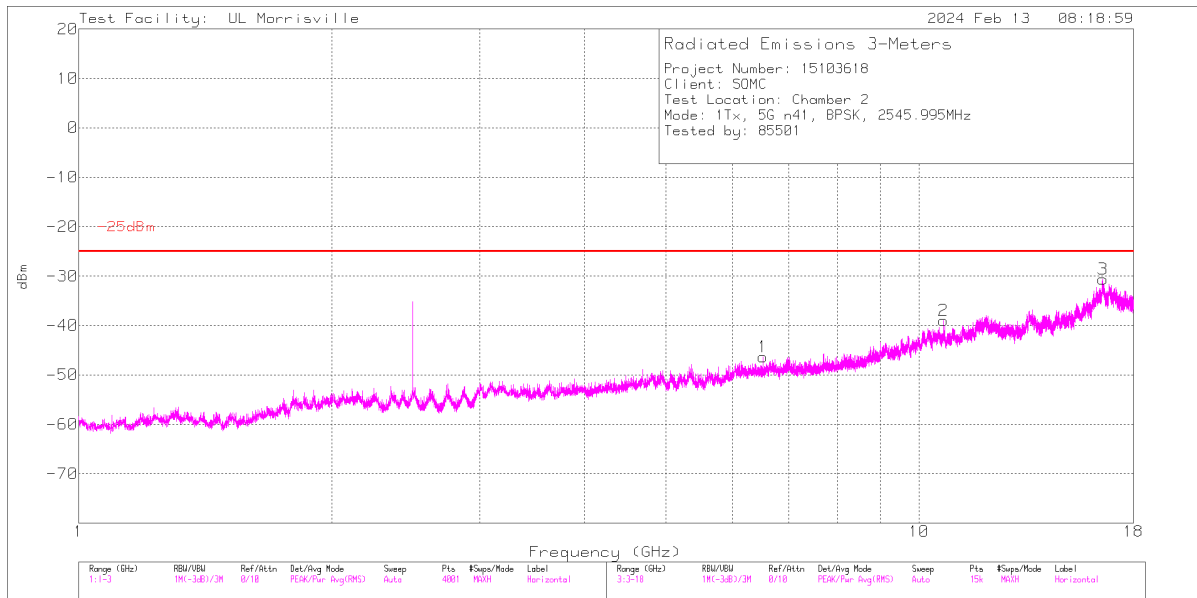


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.954	-65.2	Pk	34	-30.1	11.8	.9	-48.6	-25	-23.6	0-360	200	H
4	6.166	-65.64	Pk	35.5	-28.8	11.8	.5	-46.64	-25	-21.64	0-360	201	V
5	13.571	-63.83	Pk	38.9	-24	11.8	.7	-36.43	-25	-11.43	0-360	101	V
2	13.605	-64.29	Pk	38.9	-23.6	11.8	.7	-36.49	-25	-11.49	0-360	299	H
3	16.528	-66.51	Pk	40.7	-18.3	11.8	1.2	-31.11	-25	-6.11	0-360	200	H
6	16.561	-67.11	Pk	40.7	-18.1	11.8	1.4	-31.31	-25	-6.31	0-360	101	V

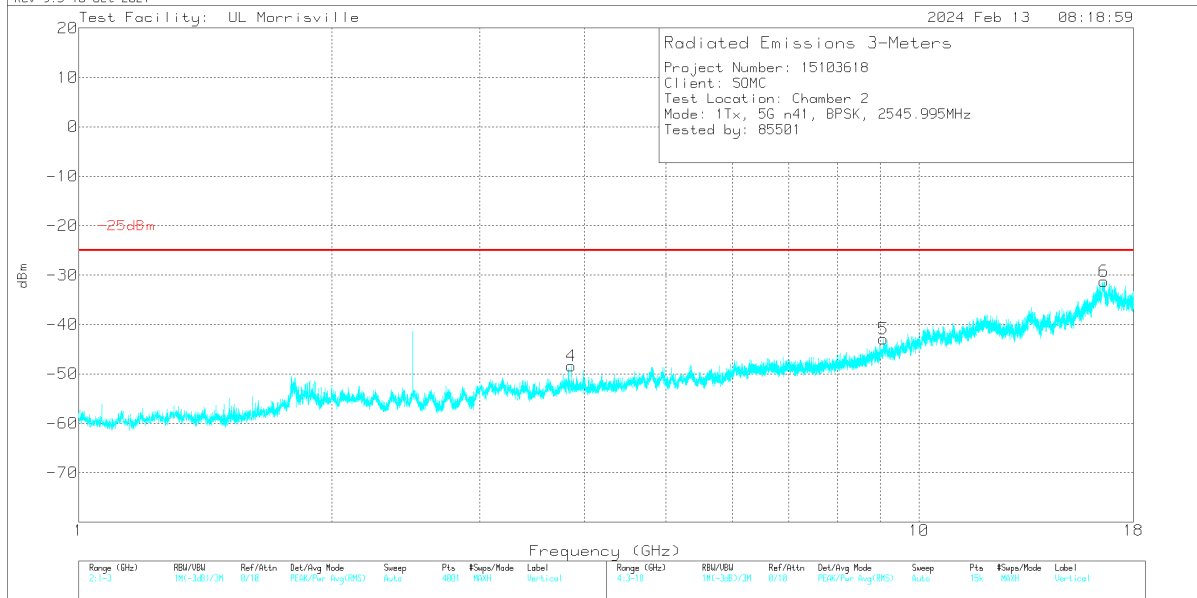
Pk - Peak detector

Sub Antenna

BPSK 5G NR N41 (100MHz, Low Channel)



Rev 9.5 18 Oct 2021

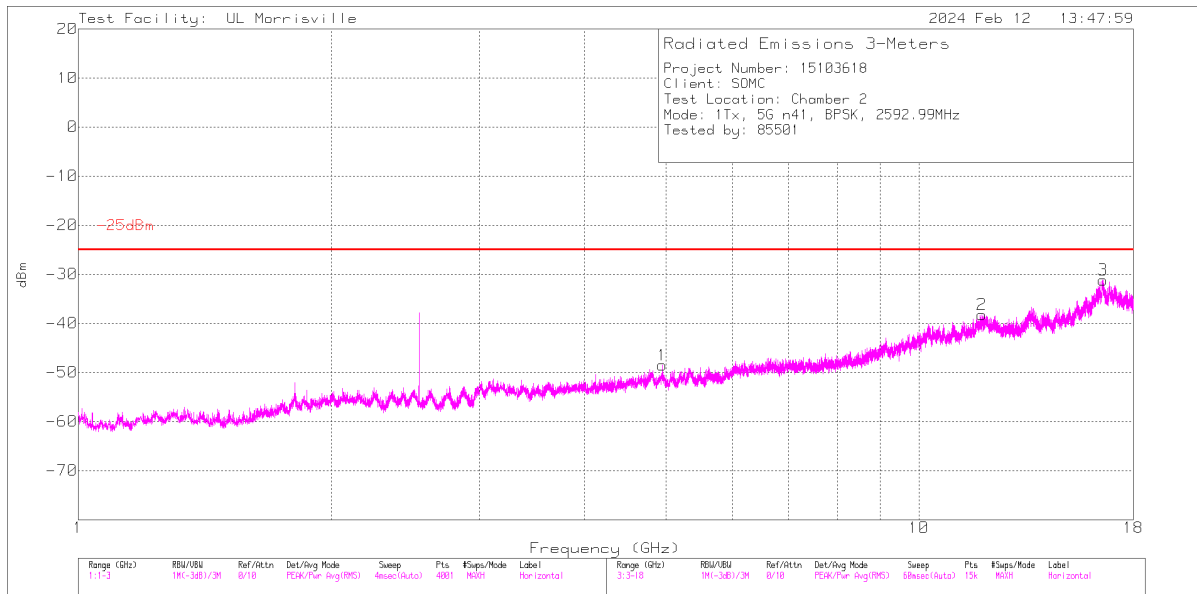


Rev 9.5 18 Oct 2021

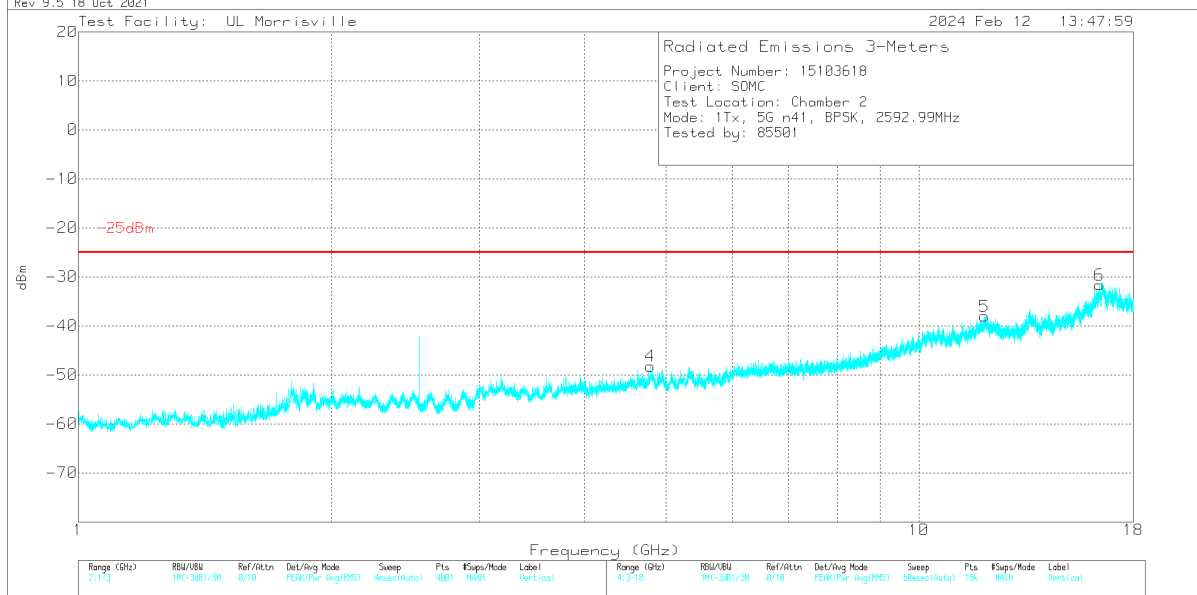
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	3.856	-62.27	Pk	33.3	-31.6	11.8	.4	-48.37	-25	-23.37	0-360	101	V
1	6.519	-65.81	Pk	35.6	-28.4	11.8	.5	-46.31	-25	-21.31	0-360	199	H
5	9.067	-65.79	Pk	35.9	-25.2	11.8	.4	-42.89	-25	-17.89	0-360	101	V
2	10.7	-66.09	Pk	37.6	-23.7	11.8	1.4	-38.99	-25	-13.99	0-360	300	H
3	16.55805	-67.59	Pk	40.7	-18.2	11.8	1.4	-31.89	-25	-6.89	150	202	H
6	16.593	-67.06	Pk	40.8	-18	11.8	1.2	-31.26	-25	-6.26	0-360	300	V

Pk - Peak detector

BPSK 5G NR N41 (100MHz, Mid Channel)



Rev 9.5 18 Oct 2021

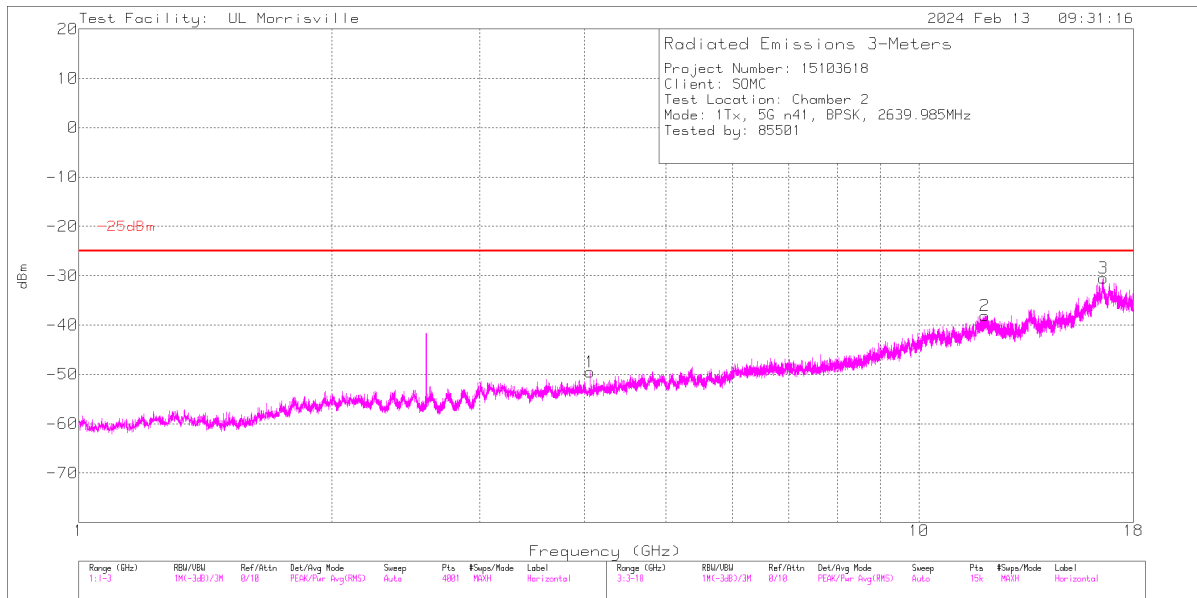


Rev 9.5 18 Oct 2021

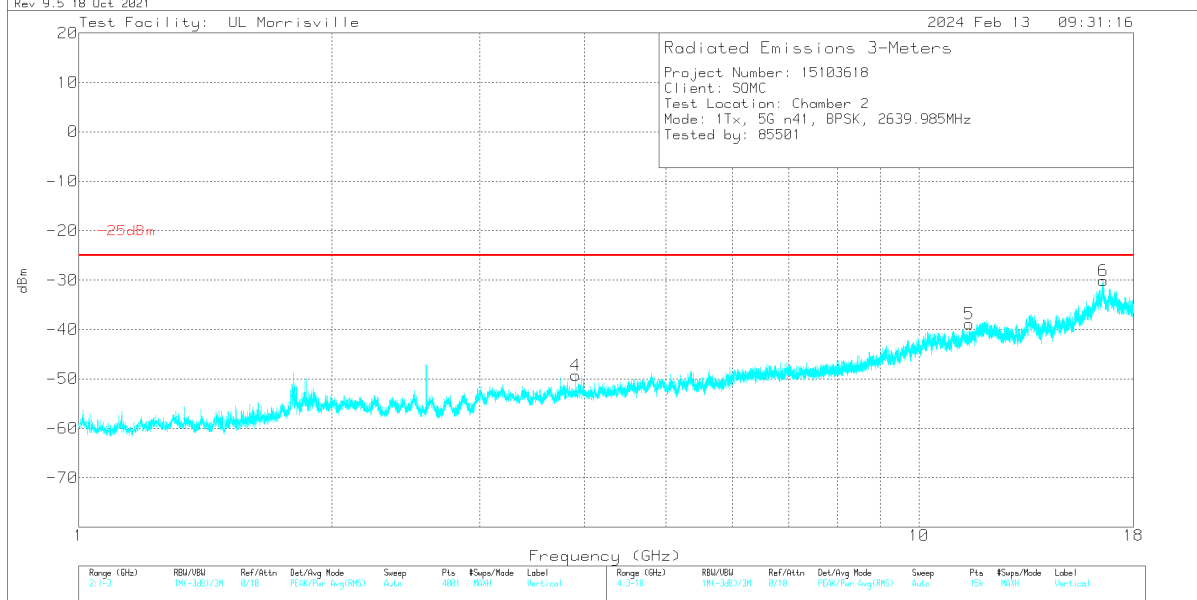
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	4.793	-64.82	Pk	34.2	-30.4	11.8	1	-48.22	-25	-23.22	0-360	101	V
1	4.95	-65.03	Pk	34	-30.2	11.8	.9	-48.53	-25	-23.53	0-360	101	H
2	11.892	-65.75	Pk	38.9	-24.1	11.8	.9	-38.25	-25	-13.25	0-360	200	H
5	11.966	-66.63	Pk	38.9	-22.9	11.8	.8	-38.03	-25	-13.03	0-360	101	V
6	16.393	-65.63	Pk	40.4	-19.5	11.8	1.3	-31.63	-25	-6.63	0-360	300	V
3	16.555	-66.72	Pk	40.7	-18.2	11.8	1.3	-31.12	-25	-6.12	0-360	200	H

Pk - Peak detector

BPSK 5G NR N41 (100MHz, High Channel)



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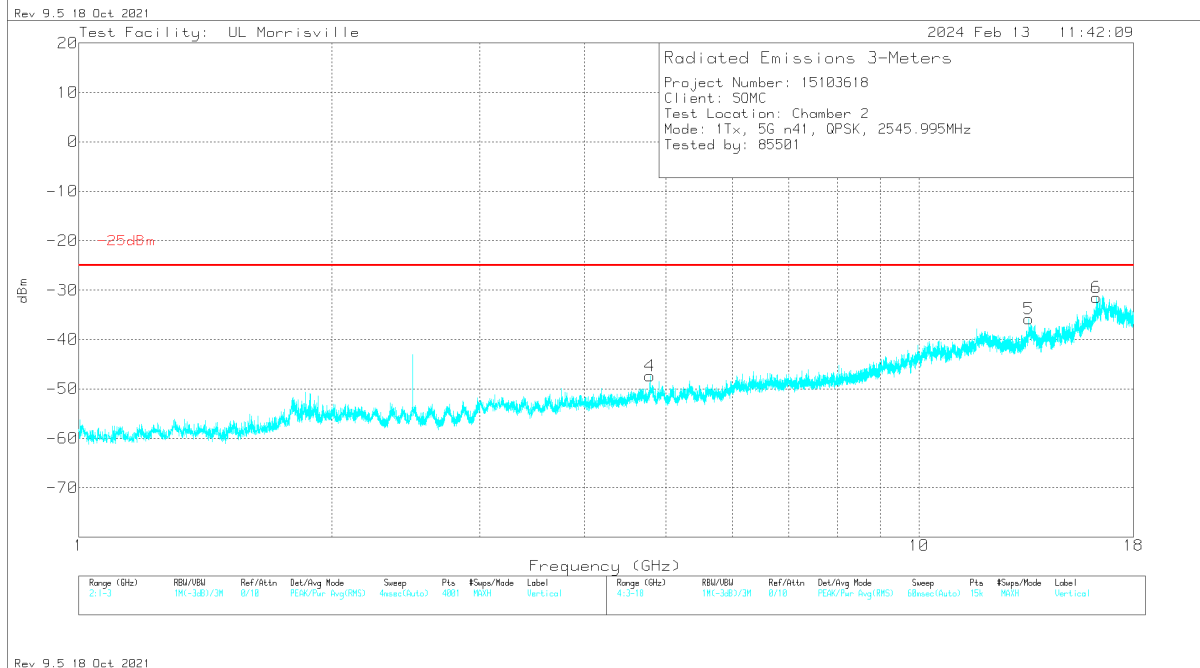
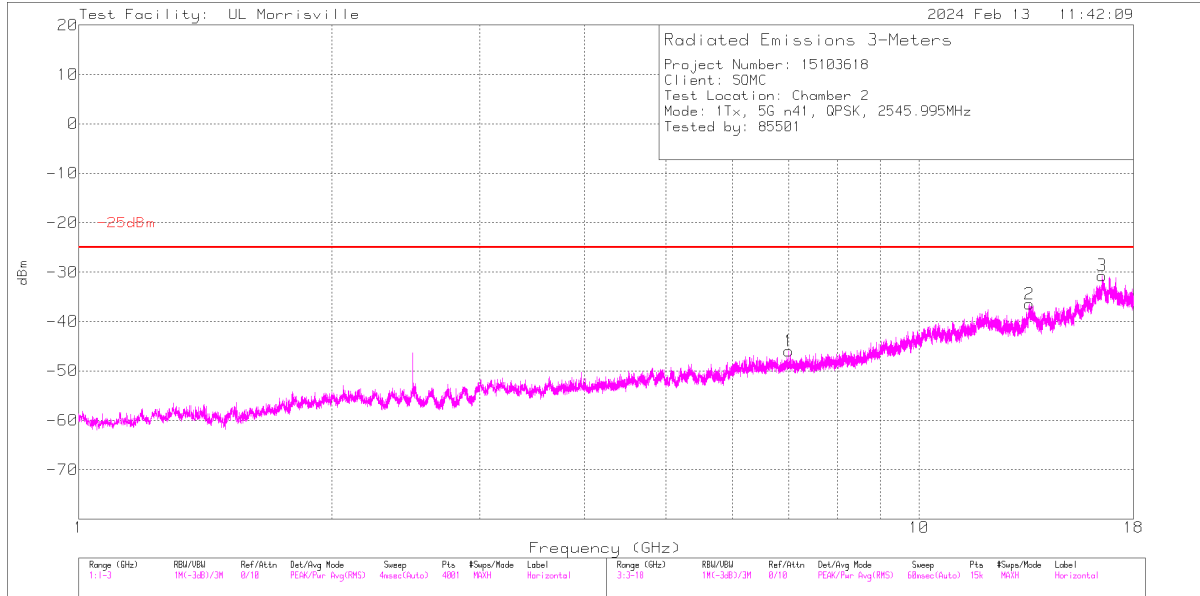
Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	3.903	-63.73	Pk	33.4	-31.4	11.8	.6	-49.33	-25	-24.33	0-360	101	V
1	4.058	-63.08	Pk	33.3	-31.9	11.8	.4	-49.48	-25	-24.48	0-360	200	H
5	11.477	-66.27	Pk	38.1	-23.1	11.8	.6	-38.87	-25	-13.87	0-360	299	V
2	11.973	-66.97	Pk	38.9	-22.5	11.8	.7	-38.07	-25	-13.07	0-360	101	H
6	16.56144	-67.48	Pk	40.7	-18.1	11.8	1.4	-31.68	-25	-6.68	305	118	V
3	16.57173	-67.66	Pk	40.7	-18.4	11.8	1.4	-32.16	-25	-7.16	266	118	H

Pk - Peak detector

Cell 3rd Antenna

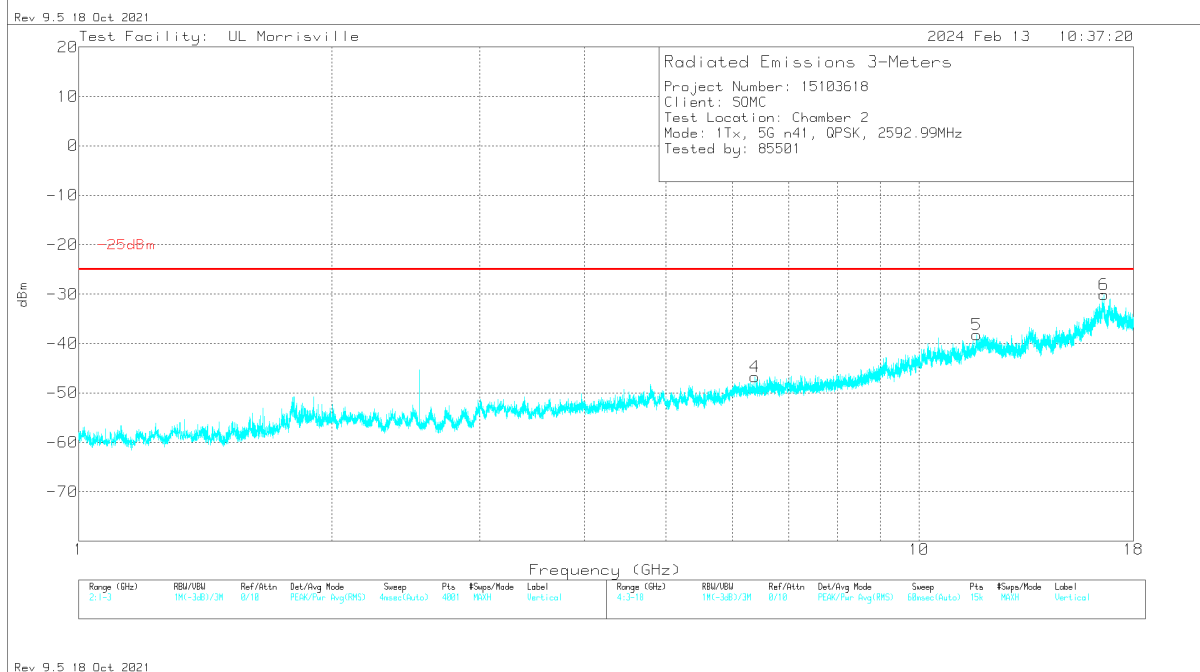
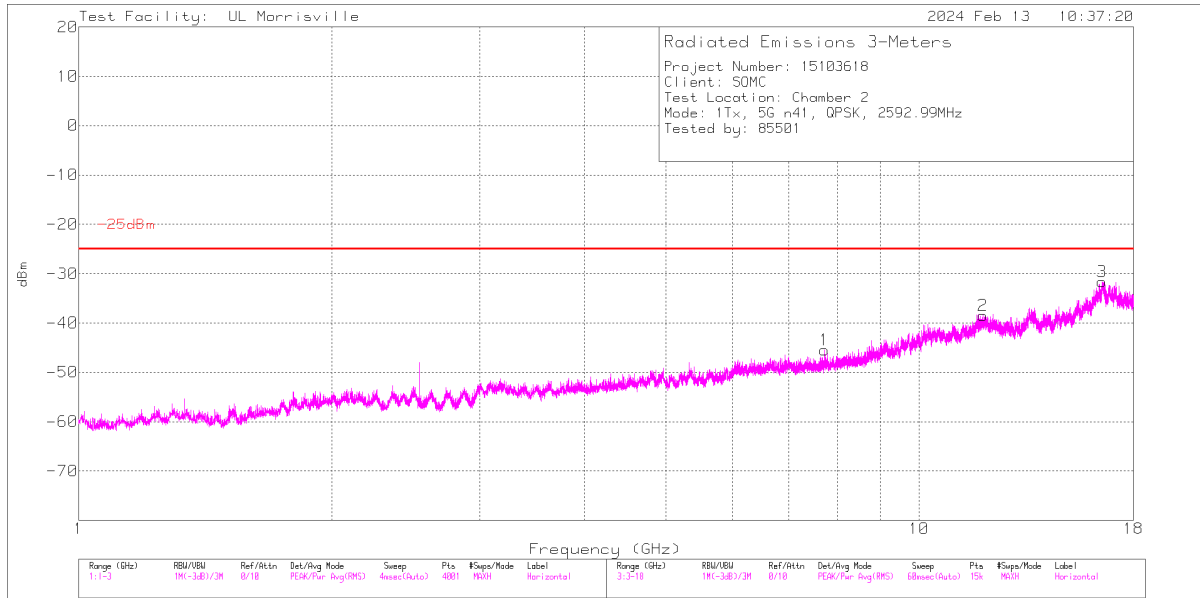
QPSK 5G NR N41 (100MHz, Low Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	4.784	-63.72	Pk	34.2	-30.6	11.8	.9	-47.42	-25	-22.42	0-360	101	V
1	6.998	-67.77	Pk	35.7	-26.1	11.8	.4	-45.97	-25	-20.97	0-360	299	H
5	13.518	-64.22	Pk	38.9	-22.8	11.8	.5	-35.82	-25	-10.82	0-360	200	V
2	13.526	-64.5	Pk	38.9	-23.1	11.8	.5	-36.4	-25	-11.4	0-360	101	H
6	16.265	-66.73	Pk	40.3	-18.2	11.8	1.3	-31.53	-25	-6.53	0-360	300	V
3	16.52446	-67.44	Pk	40.6	-18.2	11.8	1.2	-32.04	-25	-7.04	16	190	H

Pk - Peak detector

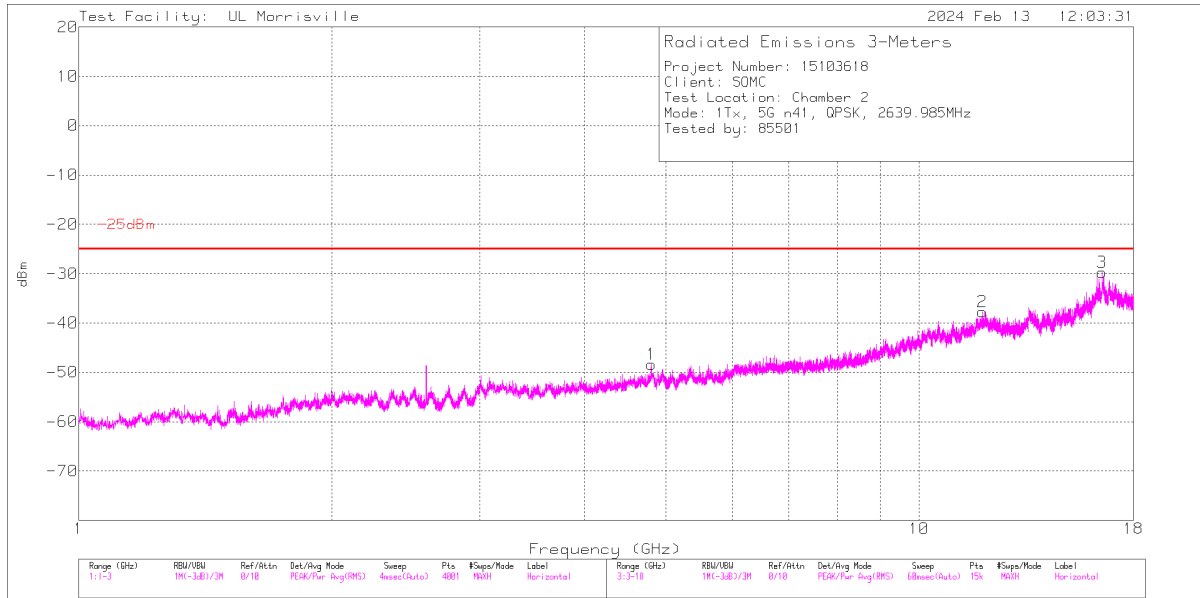
QPSK 5G NR N41 (100MHz, Mid Channel)



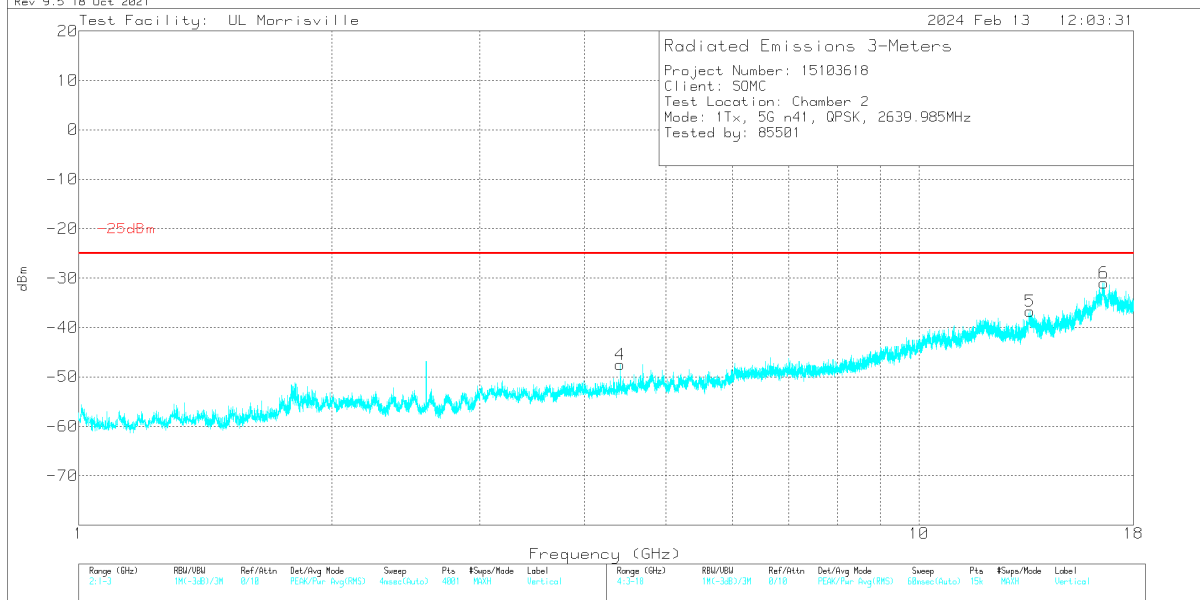
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	6.381	-67.1	Pk	35.7	-27.6	11.8	.5	-46.7	-25	-21.7	0-360	101	V
1	7.724	-67.02	Pk	35.7	-26.3	11.8	.4	-45.42	-25	-20.42	0-360	300	H
5	11.708	-66.48	Pk	38.5	-22.9	11.8	.9	-38.18	-25	-13.18	0-360	300	V
2	11.918	-66.41	Pk	38.9	-23.6	11.8	.8	-38.51	-25	-13.51	0-360	101	H
3	16.53	-67.06	Pk	40.7	-18.3	11.8	1.2	-31.66	-25	-6.66	0-360	300	H
6	16.59413	-68.41	Pk	40.8	-17.9	11.8	1.2	-32.51	-25	-7.51	272	259	V

Pk - Peak detector

QPSK 5G NR N41 (100MHz, High Channel)



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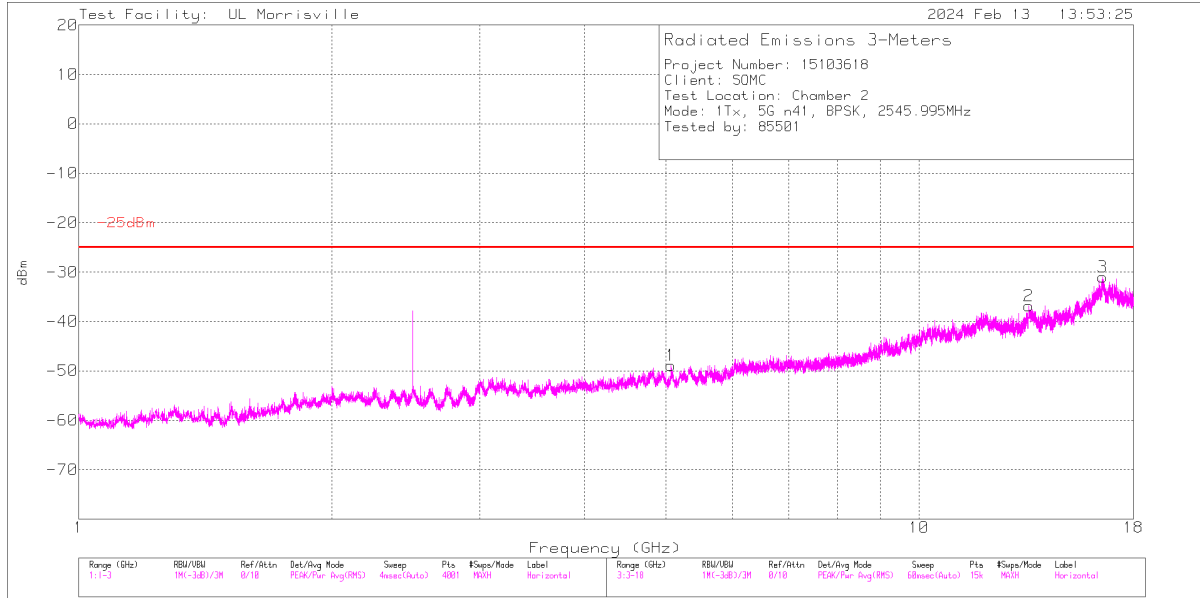
Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	4.412	-62.36	Pk	33.7	-31.2	11.8	.6	-47.46	-25	-22.46	0-360	101	V
1	4.807	-65.26	Pk	34.2	-30	11.8	.9	-48.36	-25	-23.36	0-360	300	H
2	11.905	-65.57	Pk	38.9	-23.6	11.8	.8	-37.67	-25	-12.67	0-360	300	H
5	13.551	-64.61	Pk	38.9	-23.4	11.8	.6	-36.71	-25	-11.71	0-360	200	V
3	16.51912	-66.81	Pk	40.6	-18.1	11.8	1.2	-31.31	-25	-6.31	297	233	H
6	16.595	-66.94	Pk	40.8	-17.9	11.8	1.2	-31.04	-25	-6.04	0-360	101	V

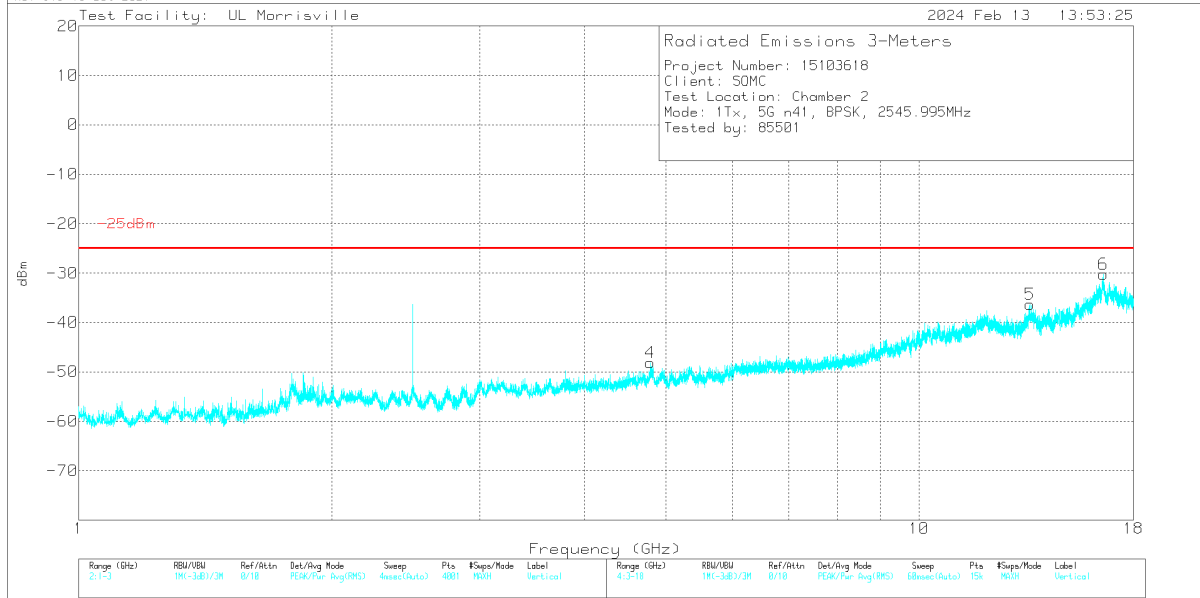
Pk - Peak detector

Cell 4th Antenna

QPSK 5G NR N41 (100MHz, Low Channel)



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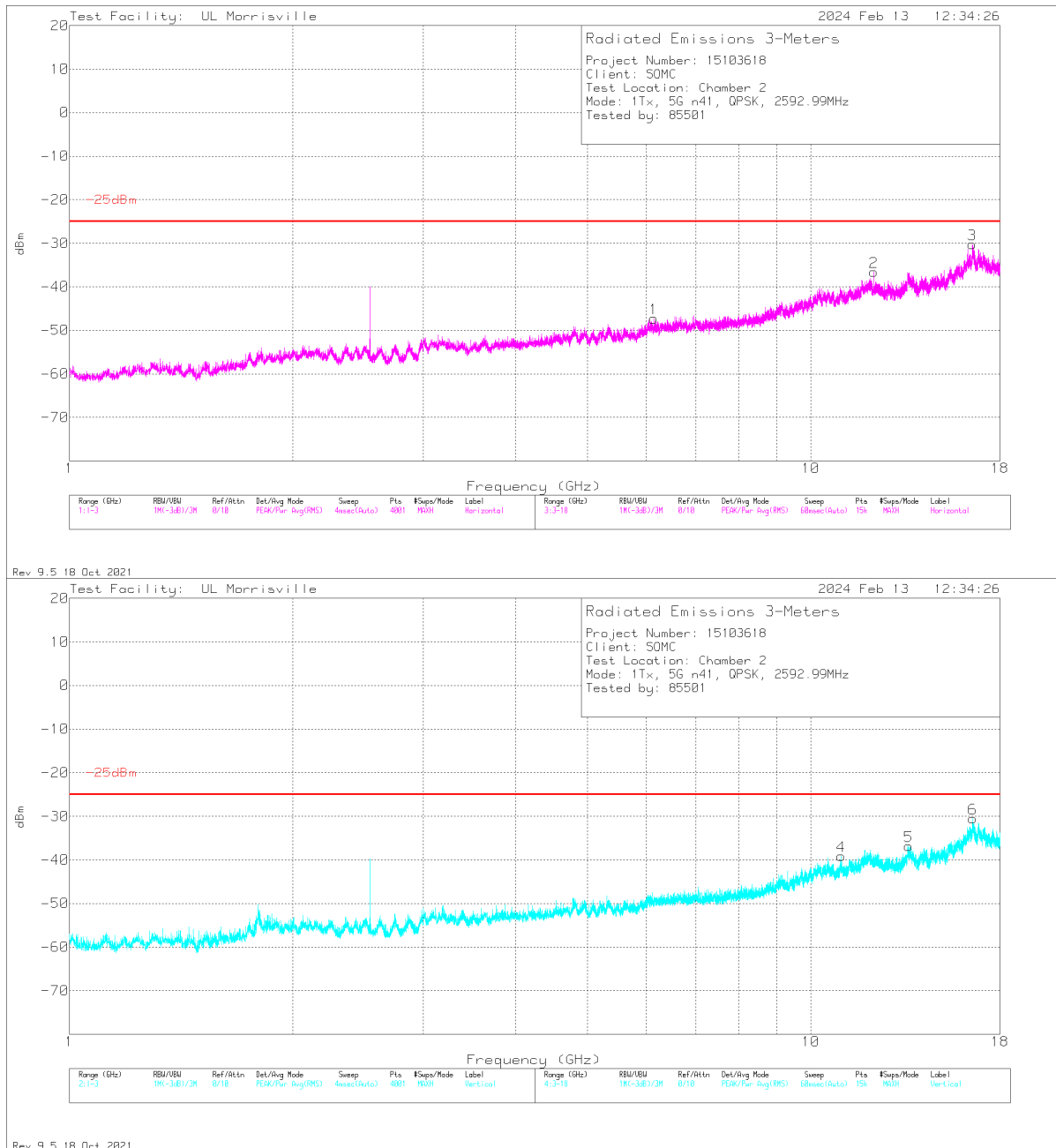


Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	4.792	-64.75	Pk	34.2	-30.4	11.8	1	-48.15	-25	-23.15	0-360	200	V
1	5.069	-65.06	Pk	34.1	-30.6	11.8	.9	-48.86	-25	-23.86	0-360	300	H
2	13.502	-65.19	Pk	38.9	-22.9	11.8	.5	-36.89	-25	-11.89	0-360	300	H
5	13.552	-64.23	Pk	38.9	-23.4	11.8	.6	-36.33	-25	-11.33	0-360	101	V
3	16.537	-66.84	Pk	40.7	-18	11.8	1.3	-31.04	-25	-6.04	0-360	300	H
6	16.57684	-67.35	Pk	40.8	-18.4	11.8	1.3	-31.85	-25	-6.85	46	315	V

Pk - Peak detector

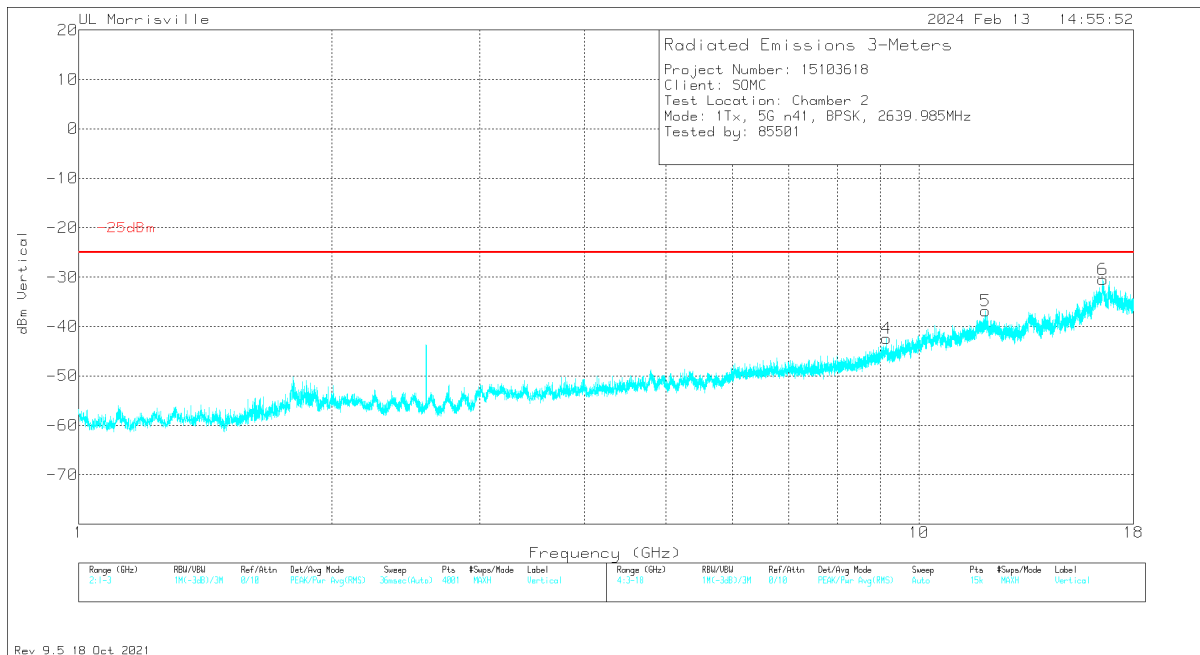
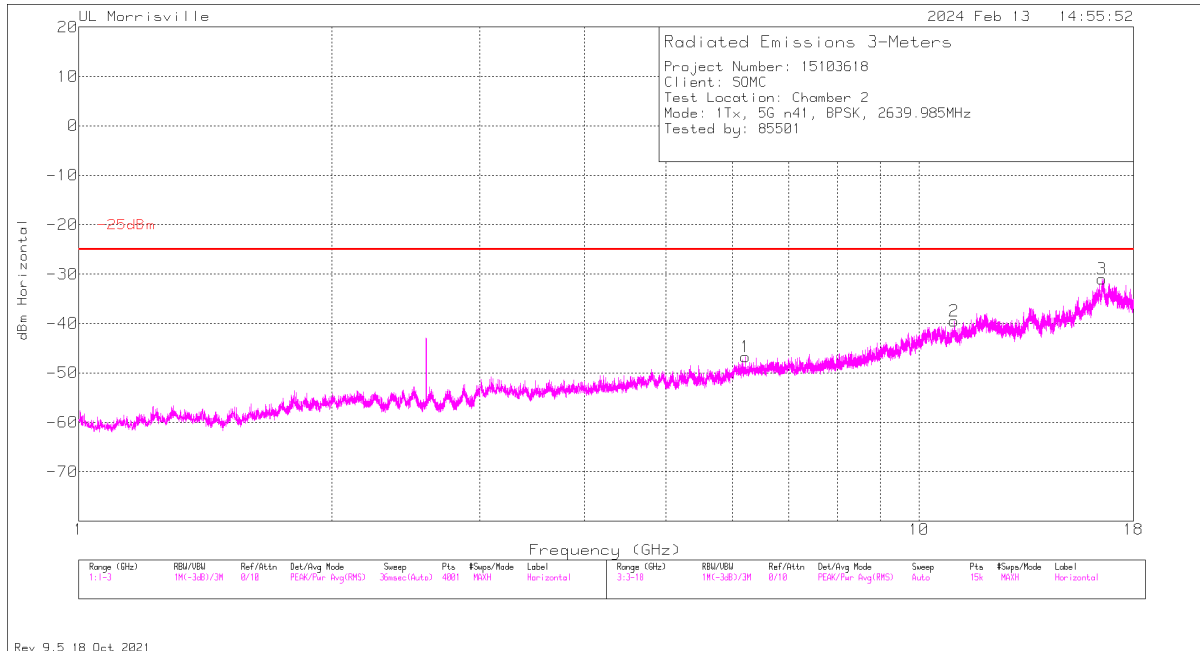
QPSK 5G NR N41 (100MHz, Mid Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.143	-66.1	Pk	35.5	-28.9	11.8	.4	-47.3	-25	-22.3	0-360	299	H
4	10.989	-66.5	Pk	37.7	-23.3	11.8	1.2	-39.1	-25	-14.1	0-360	101	V
2	12.161	-64.64	Pk	38.9	-23.4	11.8	.8	-36.54	-25	-11.54	0-360	200	H
5	13.564	-64.48	Pk	38.9	-23.6	11.8	.6	-36.78	-25	-11.78	0-360	200	V
3	16.51565	-67.31	Pk	40.6	-18.5	11.8	1.1	-32.31	-25	-7.31	88	231	H
6	16.55346	-67.17	Pk	40.7	-18.3	11.8	1.4	-31.57	-25	-6.57	285	261	V

Pk - Peak detector

QPSK 5G NR N41 (100MHz, High Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.219	-66.49	Pk	35.6	-28.1	11.8	.5	-46.69	-25	-21.69	0-360	101	H
4	9.143	-66.15	Pk	35.9	-24.8	11.8	.8	-42.45	-25	-17.45	0-360	101	V
2	11.011	-66.85	Pk	37.7	-23.1	11.8	1	-39.45	-25	-14.45	0-360	101	H
5	11.991	-65.48	Pk	38.9	-23	11.8	.9	-36.88	-25	-11.88	0-360	300	V
3	16.5286	-67.74	Pk	40.7	-18.3	11.8	1.2	-32.34	-25	-7.34	298	181	H
6	16.5591	-67.61	Pk	40.7	-18.2	11.8	1.4	-31.91	-25	-6.91	190	143	V

Pk - Peak detector

10.1.12. LTE BAND 48

LIMITS

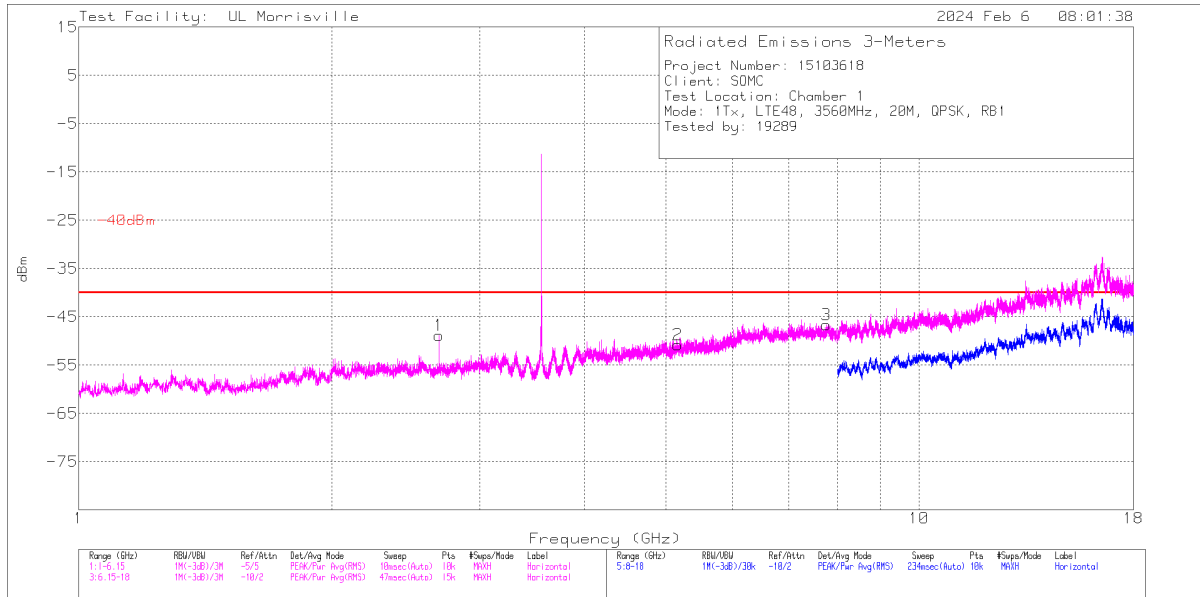
FCC: §96.41

(e) 3.5 GHz Emissions and Interference Limits—

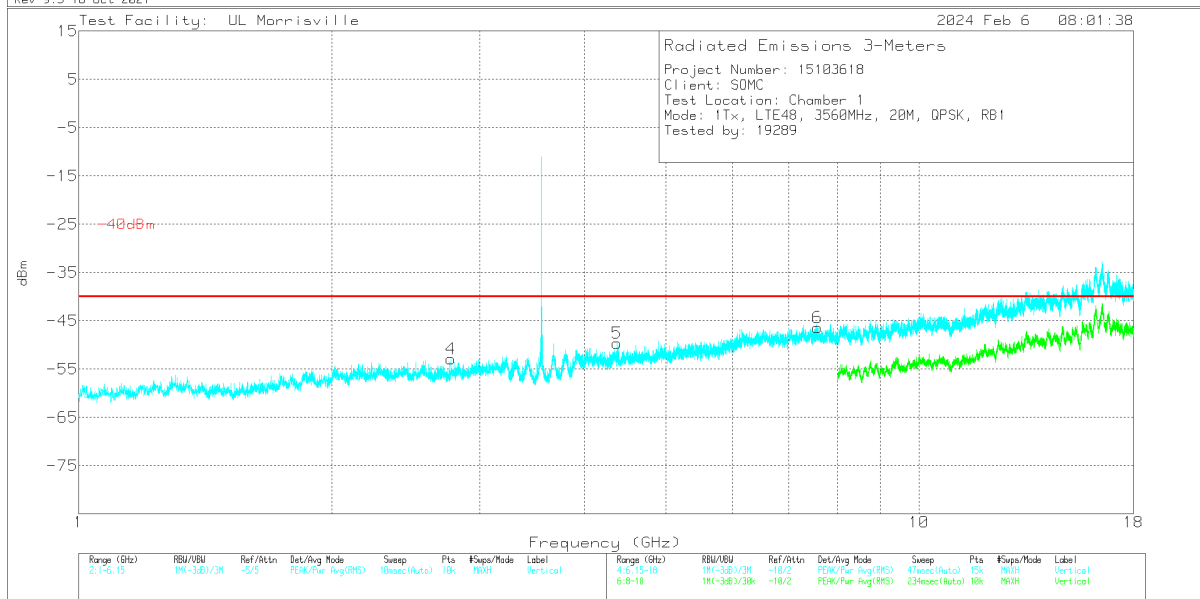
(2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

Main Antenna

**EUT Serial Number: QV77006PLY
 QPSK LTE BAND 48 (20MHz, Low Channel)**



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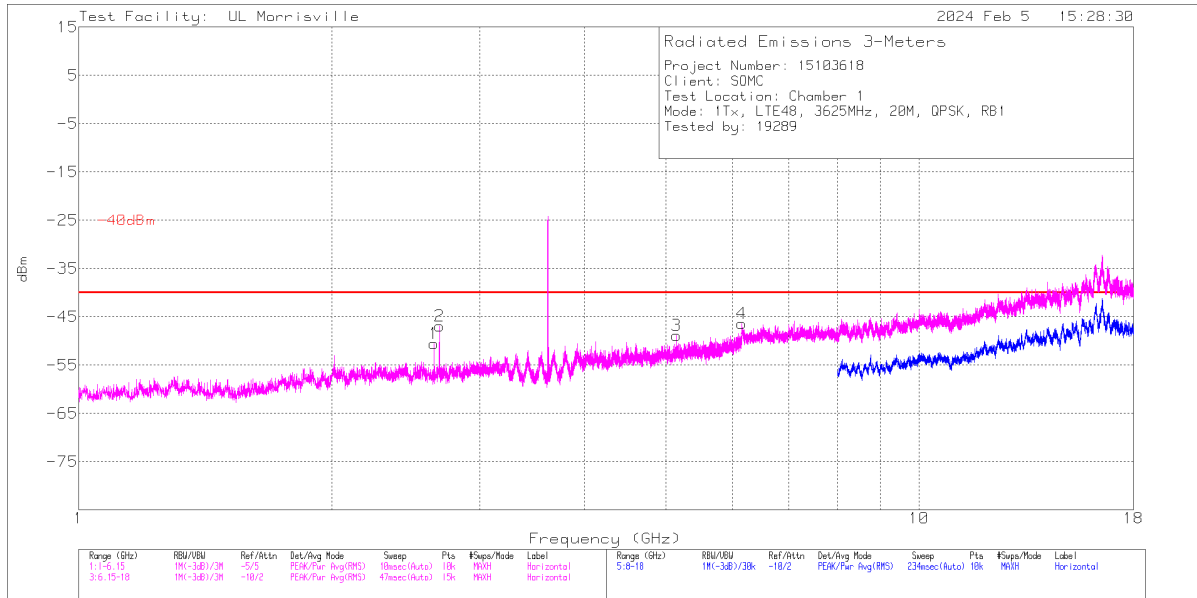


Rev 9.5 18 Oct 2021

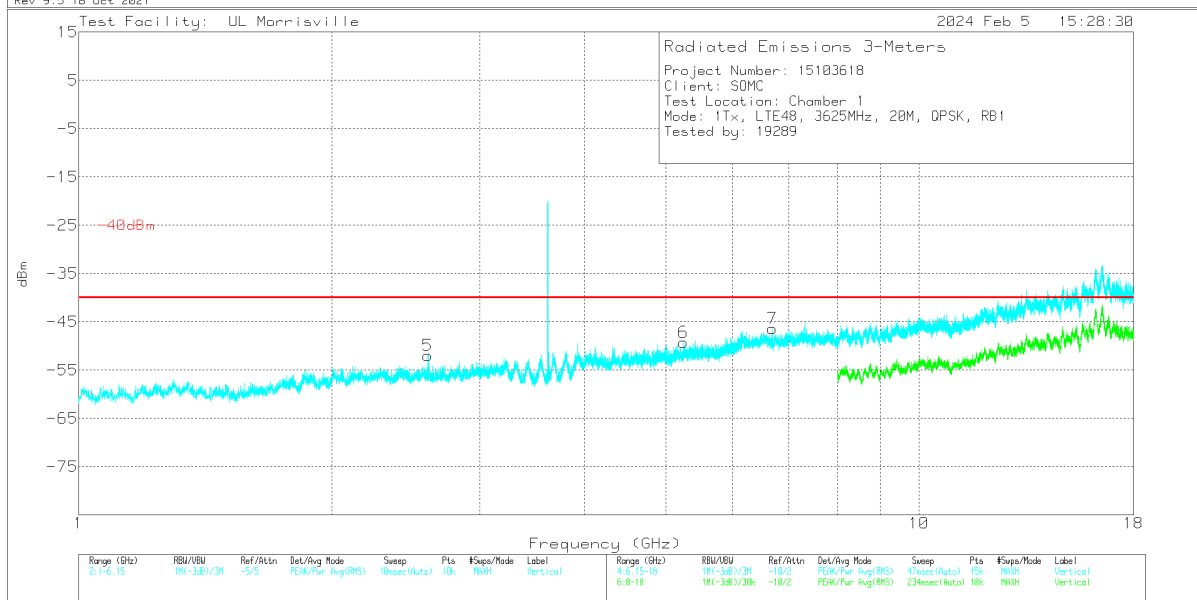
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.6856	-59.59	Pk	32	-33.8	11.8	.7	-48.89	-40	-8.89	0-360	99	H
4	2.7716	-64.34	Pk	32.2	-33.2	11.8	.7	-52.84	-40	-12.84	0-360	200	V
5	4.37171	-64.18	Pk	33.6	-31.4	11.8	.6	-49.58	-40	-9.58	0-360	300	V
2	5.16481	-66.94	Pk	34.3	-30.5	11.8	.5	-50.84	-40	-10.84	0-360	300	H
6	7.57121	-68	Pk	35.7	-26.6	11.8	.7	-46.4	-40	-6.4	0-360	101	V
3	7.75291	-67.99	Pk	35.7	-26.9	11.8	.8	-46.59	-40	-6.59	0-360	200	H

Pk - Peak detector

QPSK LTE BAND 48 (20MHz, Mid Channel)



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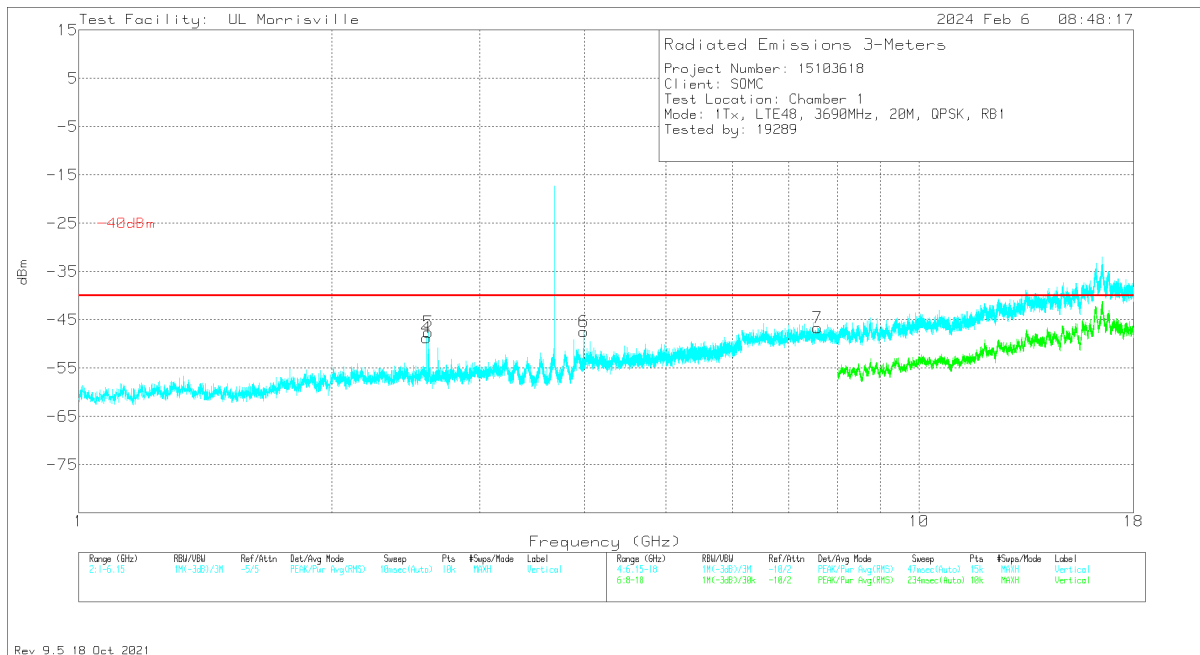
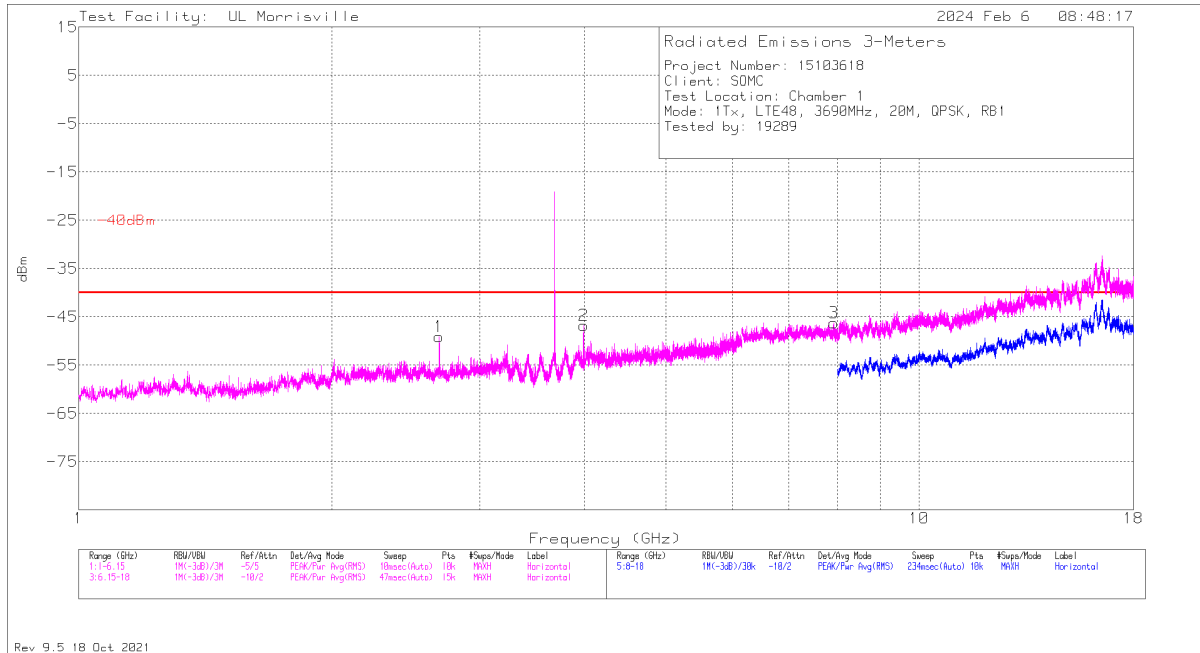


Rev. 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	2.60062	-62.65	Pk	32.2	-33.9	11.8	.6	-51.95	-40	-11.95	0-360	300	V
1	2.64903	-61.53	Pk	32.1	-33.7	11.8	.8	-50.53	-40	-10.53	0-360	300	H
2	2.68714	-57.61	Pk	32	-33.8	11.8	.7	-46.91	-40	-6.91	0-360	300	H
3	5.14936	-64.89	Pk	34.3	-30.5	11.8	.4	-48.89	-40	-8.89	0-360	300	H
6	5.24669	-65.31	Pk	34.4	-30.6	11.8	.5	-49.21	-40	-9.21	0-360	101	V
4	6.15237	-65.9	Pk	35.3	-28.1	11.8	.5	-46.4	-40	-6.4	0-360	199	H
7	6.69194	-65.75	Pk	35.6	-28.5	11.8	.5	-46.35	-40	-6.35	0-360	201	V

Pk - Peak detector

QPSK LTE BAND 48 (20MHz, High Channel)

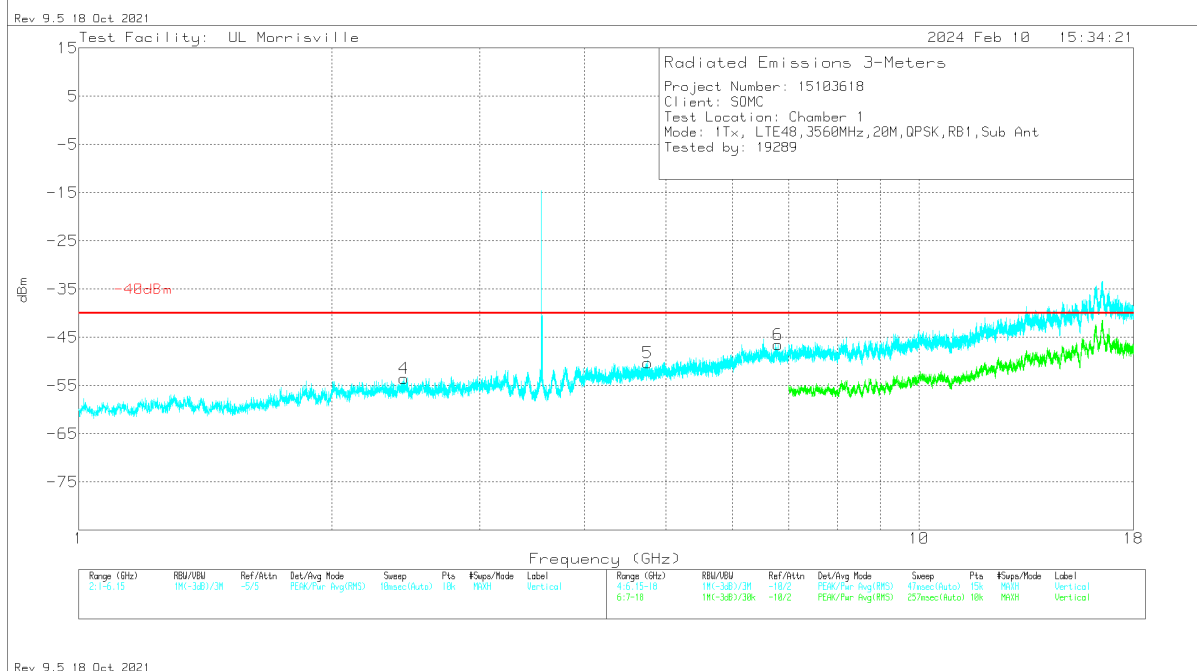
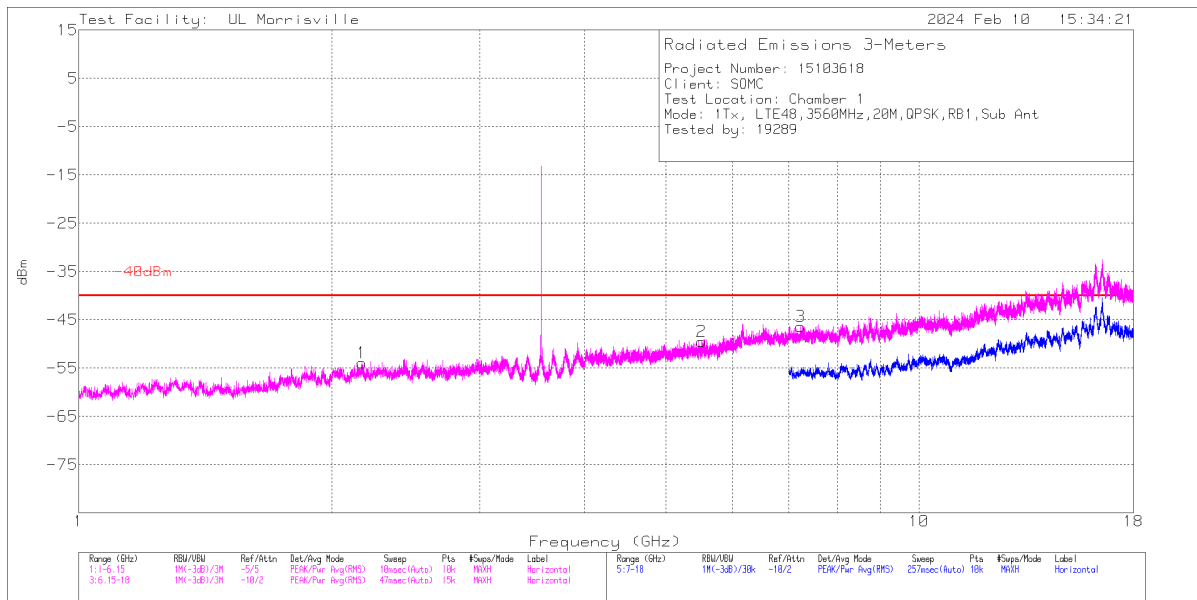


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.59444	-59.54	Pk	32.2	-33.8	11.8	.6	-48.74	-40	-8.74	0-360	101	V
5	2.60577	-58.26	Pk	32.2	-33.9	11.8	.6	-47.56	-40	-7.56	0-360	101	V
1	2.68611	-59.83	Pk	32	-33.8	11.8	.7	-49.13	-40	-9.13	0-360	101	H
6	3.98803	-61.61	Pk	33.4	-32.2	11.8	1.2	-47.41	-40	-7.41	0-360	101	V
2	3.98855	-60.91	Pk	33.4	-32.2	11.8	1.2	-46.71	-40	-6.71	0-360	101	H
7	7.57753	-68.08	Pk	35.7	-26.8	11.8	.8	-46.58	-40	-6.58	0-360	101	V
3	7.91881	-67.78	Pk	35.8	-27	11.8	.9	-46.28	-40	-6.28	0-360	199	H

Pk - Peak detector

Sub-UHB Antenna

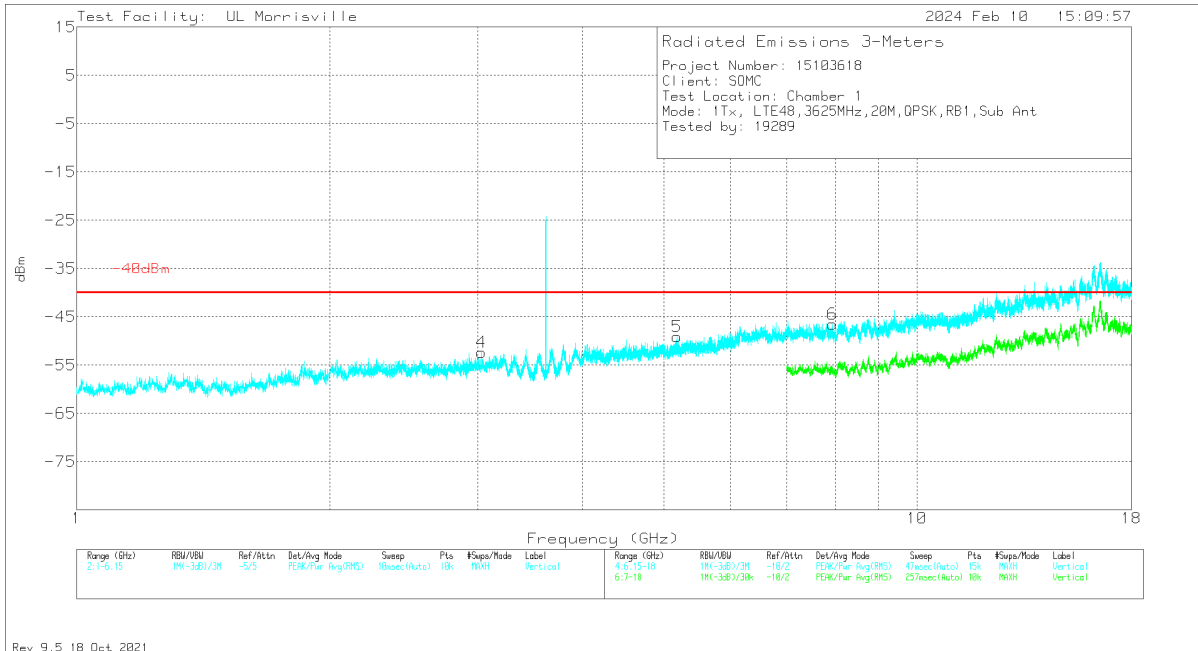
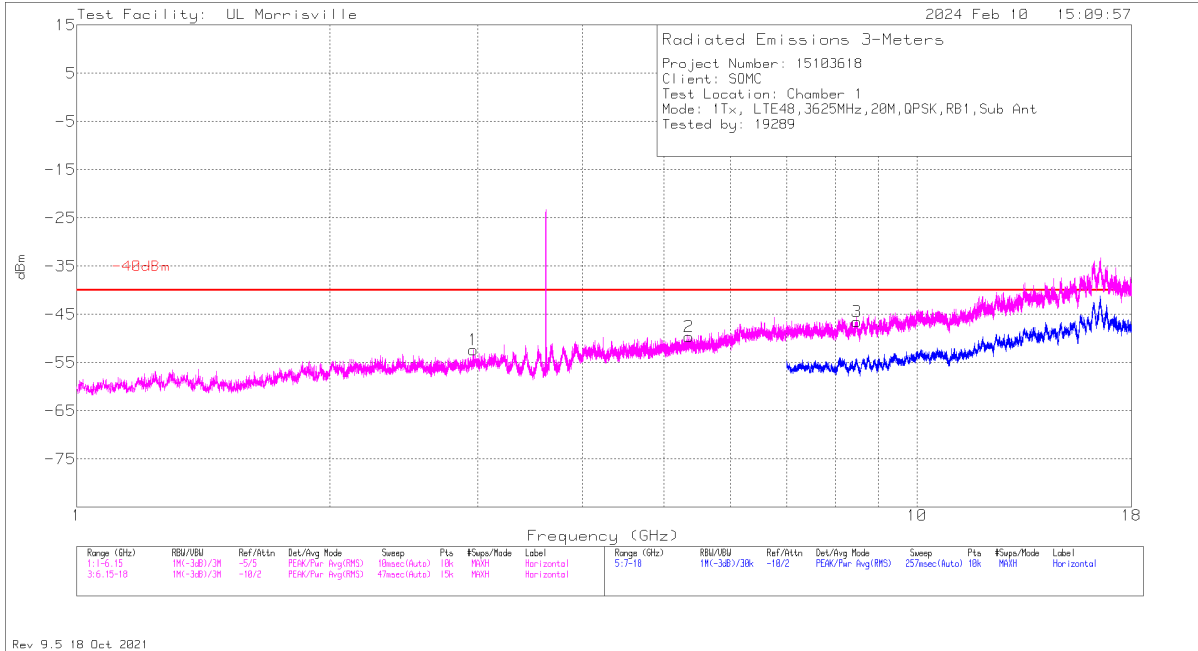
EUT Serial Number: QV77008ELY
QPSK LTE BAND 48 (20MHz, Low Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.17163	-63.98	Pk	31.7	-34.2	11.8	.8	-53.88	-40	-13.88	0-360	200	H
4	2.43994	-64.23	Pk	32.2	-34	11.8	.7	-53.53	-40	-13.53	0-360	201	V
5	4.75538	-65.72	Pk	34.1	-31.1	11.8	.6	-50.32	-40	-10.32	0-360	201	V
2	5.51552	-65.76	Pk	34.4	-30.4	11.8	.5	-49.46	-40	-9.46	0-360	101	H
6	6.79464	-66.81	Pk	35.6	-27.6	11.8	.5	-46.51	-40	-6.51	0-360	300	V
3	7.22914	-67.62	Pk	35.6	-26.7	11.8	.6	-46.32	-40	-6.32	0-360	101	H

Pk - Peak detector

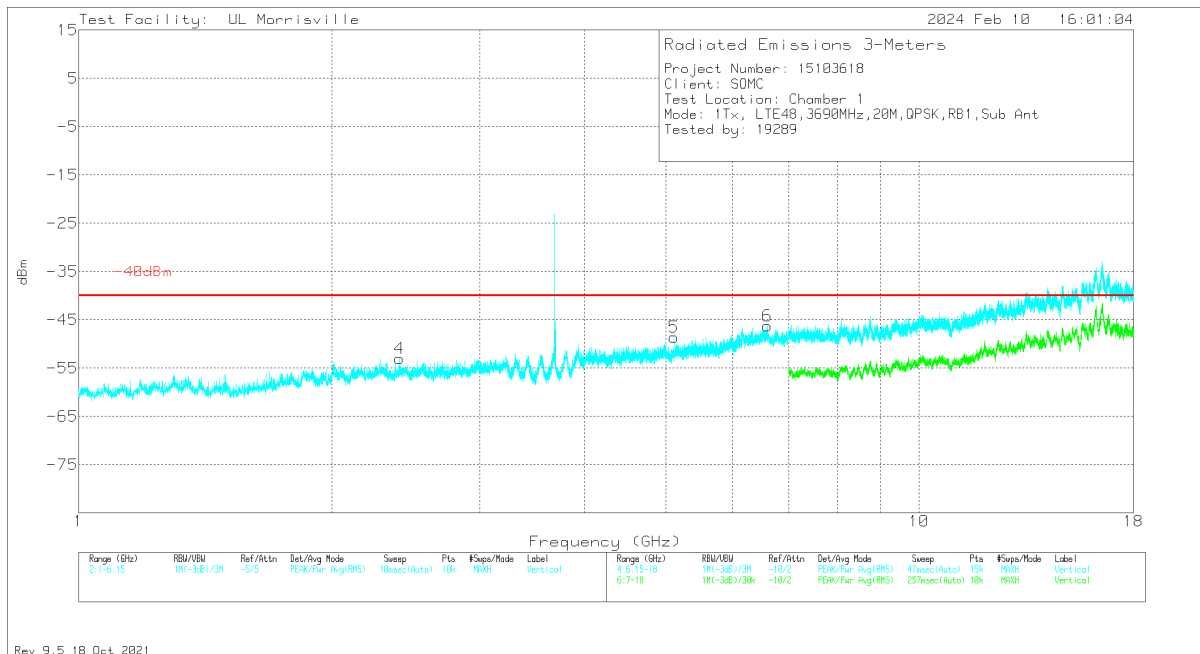
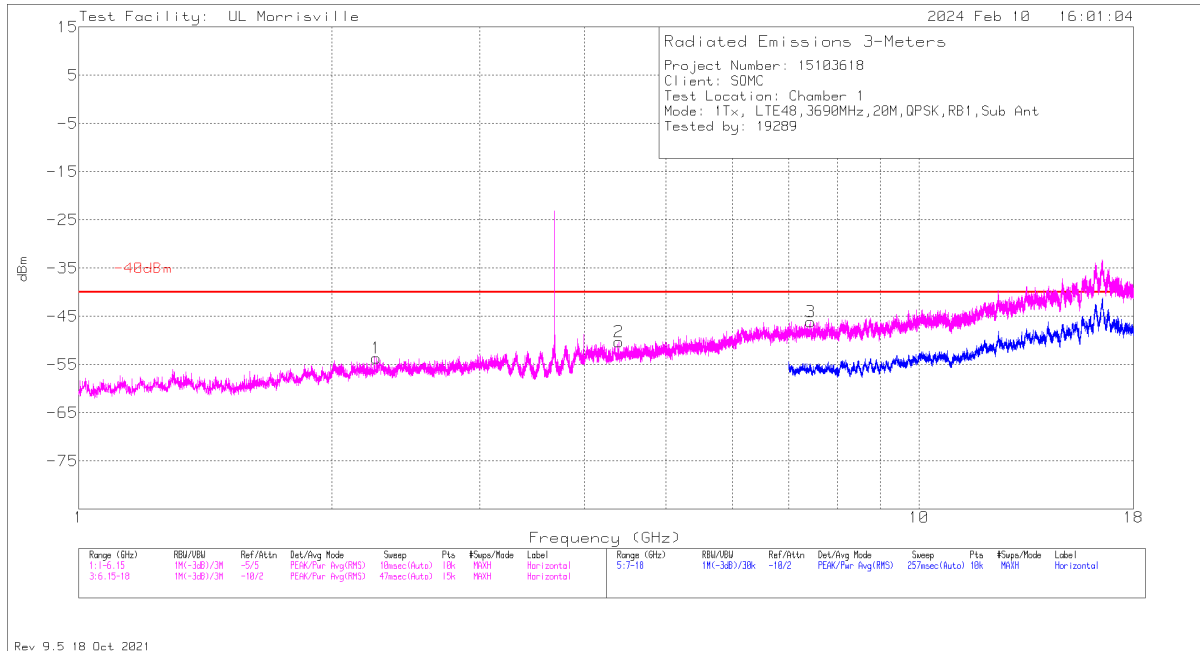
QPSK LTE BAND 48 (20MHz, Mid Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.9673	-64.2	Pk	32.7	-33.2	11.8	.6	-52.3	-40	-12.3	0-360	101	H
4	3.03271	-64.37	Pk	32.9	-33.4	11.8	.7	-52.37	-40	-12.37	0-360	201	V
5	5.18077	-64.99	Pk	34.3	-30.7	11.8	.5	-49.09	-40	-9.09	0-360	300	V
2	5.35433	-66.57	Pk	34.5	-29.9	11.8	.5	-49.67	-40	-9.67	0-360	200	H
6	7.93619	-67.65	Pk	35.8	-27.2	11.8	.8	-46.45	-40	-6.45	0-360	200	V
3	8.47971	-68.76	Pk	35.8	-26.6	11.8	1.3	-46.46	-40	-6.46	0-360	101	H

Pk - Peak detector

QPSK LTE BAND 48 (20MHz, High Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.26227	-64.02	Pk	31.8	-34	11.8	.8	-53.62	-40	-13.62	0-360	199	H
4	2.40698	-63.71	Pk	32.1	-34	11.8	.8	-53.01	-40	-13.01	0-360	200	V
2	4.39282	-65.06	Pk	33.7	-31.2	11.8	.5	-50.26	-40	-10.26	0-360	199	H
5	5.11228	-64.23	Pk	34.2	-30.8	11.8	.5	-48.53	-40	-8.53	0-360	101	V
6	6.59714	-65.61	Pk	35.6	-28.5	11.8	.5	-46.21	-40	-6.21	0-360	200	V
3	7.43296	-67.41	Pk	35.7	-27	11.8	.8	-46.11	-40	-6.11	0-360	200	H

Pk - Peak detector

10.1.13. 5G NR n48

LIMITS

FCC: §96.41

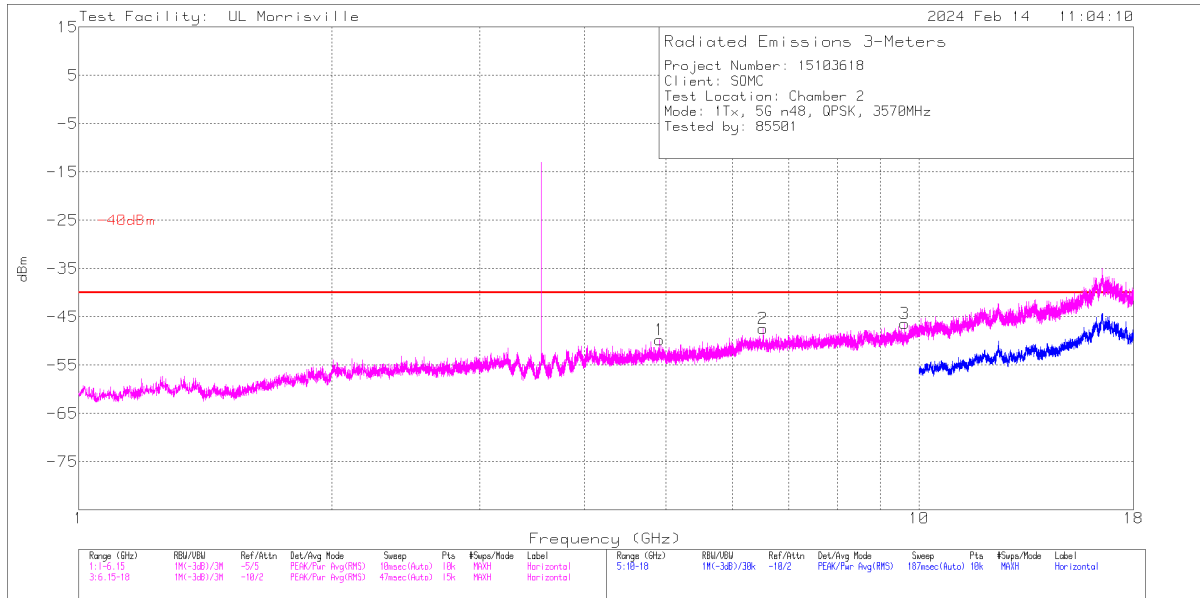
(e) 3.5 GHz Emissions and Interference Limits—

(2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

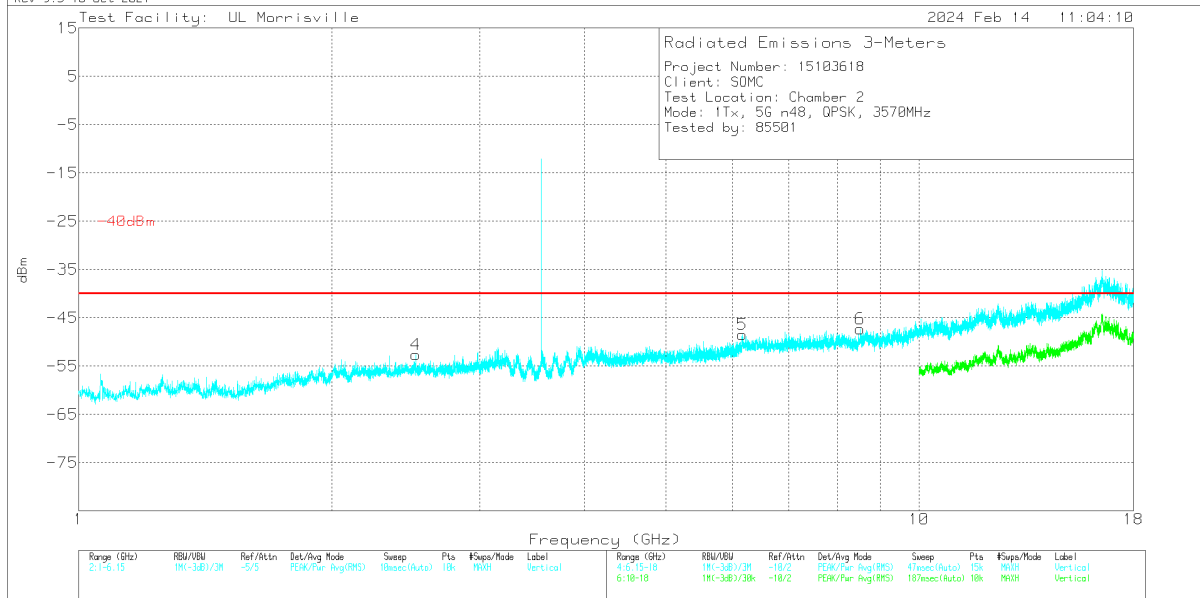
EUT Serial Number: QV77006PLY

Main Antenna

QPSK 5G NR N48 (40MHz, Low Channel)



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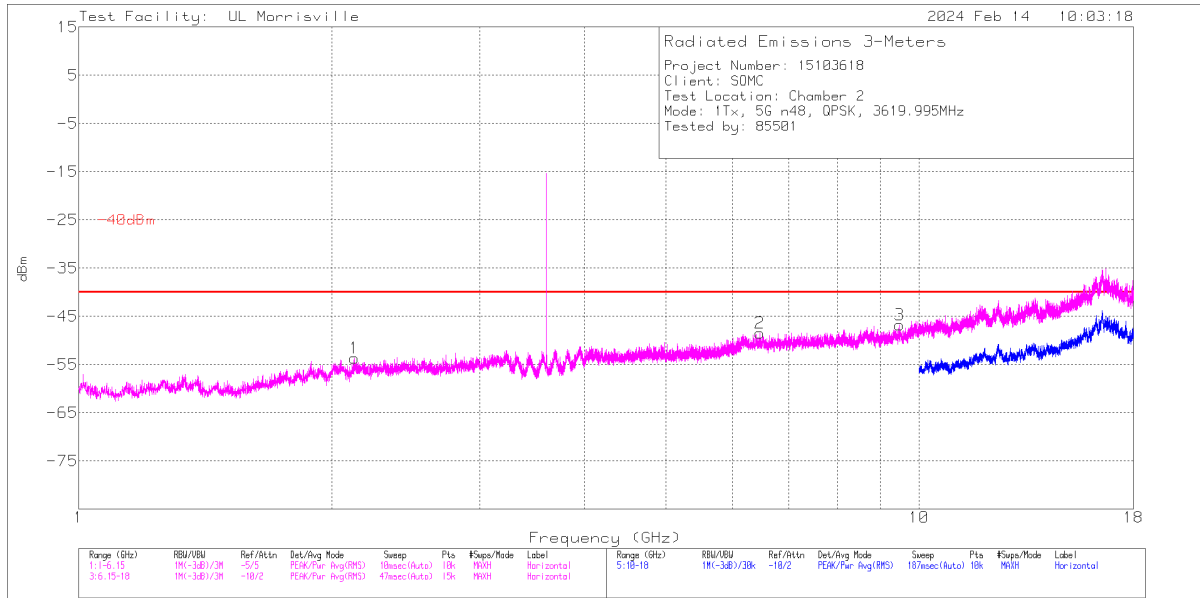


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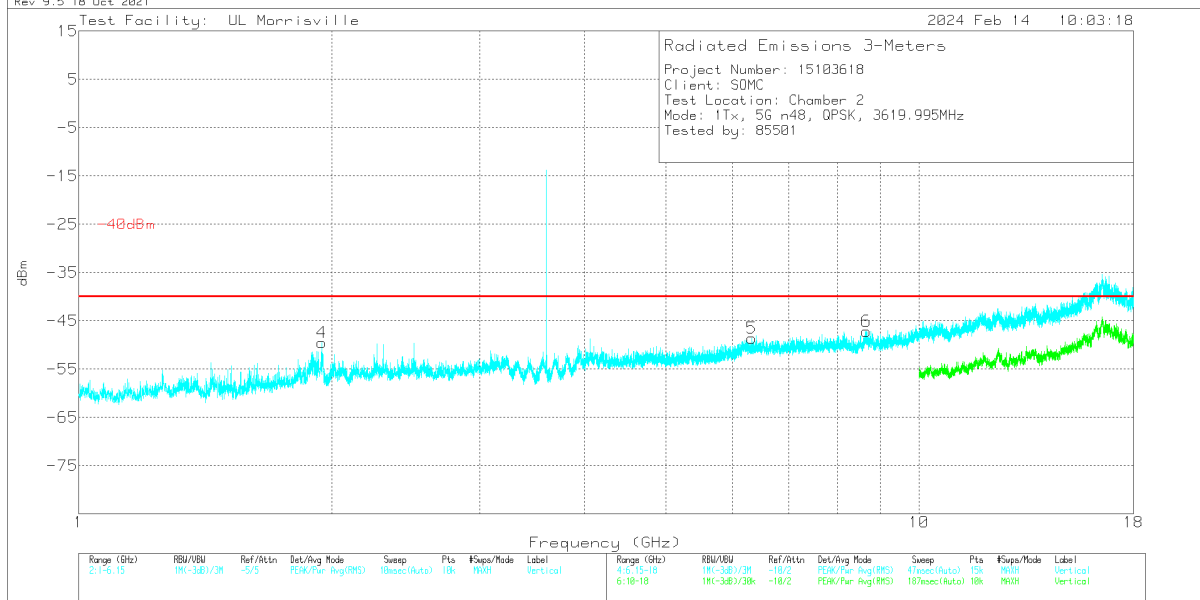
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.51719	-64.11	Pk	32.5	-33.6	11.8	.8	-52.61	-40	-12.61	0-360	300	V
1	4.91555	-65.6	Pk	34.1	-30.6	11.8	.5	-49.8	-40	-9.8	0-360	300	H
5	6.16027	-68.04	Pk	35.5	-28.2	11.8	.5	-48.44	-40	-8.44	0-360	201	V
2	6.52762	-67.57	Pk	35.6	-27.7	11.8	.5	-47.37	-40	-7.37	0-360	299	H
6	8.51368	-69.4	Pk	35.8	-26.6	11.8	1.1	-47.3	-40	-7.3	0-360	101	V
3	9.60862	-70.23	Pk	36.5	-25.5	11.8	1	-46.43	-40	-6.43	0-360	299	H

Pk - Peak detector

QPSK 5G NR N48 (40MHz, Mid Channel)



Rev 9.5 18 Oct 2021

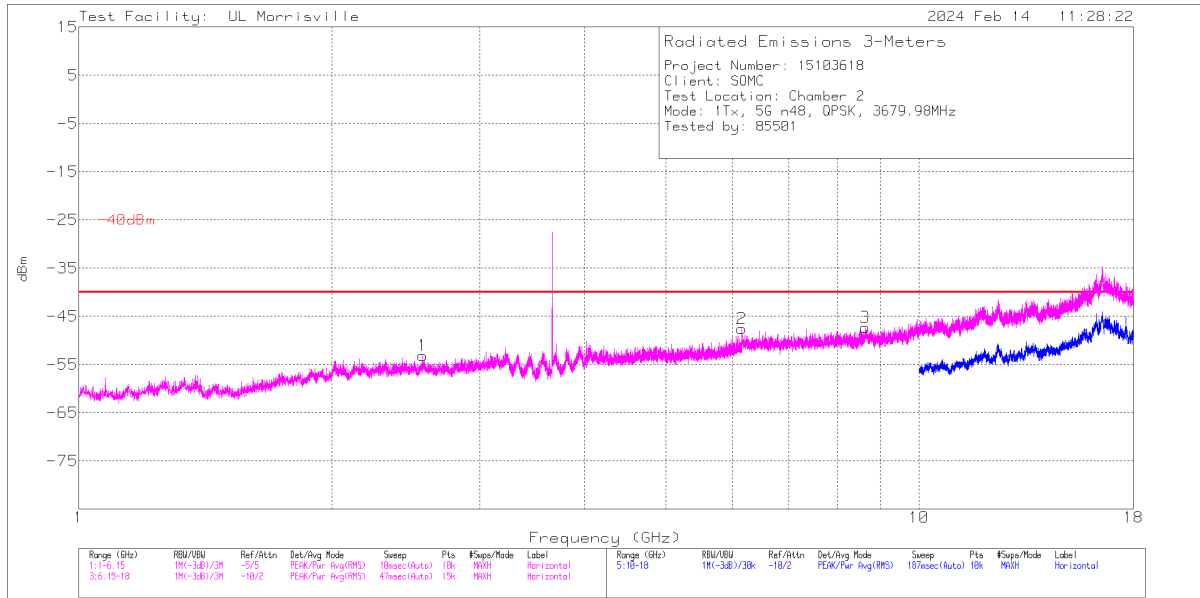


Rev 9.5 18 Oct 2021

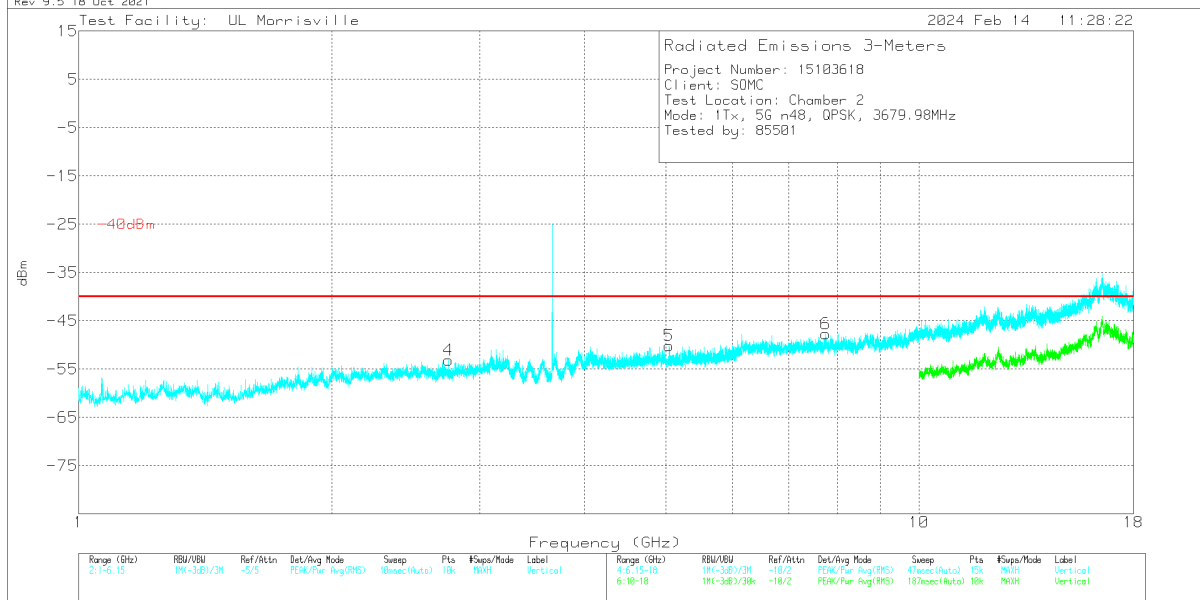
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.94606	-58.99	Pk	31.2	-34.2	11.8	.7	-49.49	-40	-9.49	0-360	200	V
1	2.12888	-64.08	Pk	32	-34.2	11.8	.8	-53.68	-40	-13.68	0-360	100	H
5	6.32854	-67.71	Pk	35.7	-28.9	11.8	.5	-48.61	-40	-8.61	0-360	200	V
2	6.46521	-68.26	Pk	35.7	-28.2	11.8	.5	-48.46	-40	-8.46	0-360	101	H
6	8.66615	-69.4	Pk	35.8	-26.4	11.8	1.1	-47.1	-40	-7.1	0-360	200	V
3	9.48696	-70.25	Pk	36.4	-25.7	11.8	1	-46.75	-40	-6.75	0-360	199	H

Pk - Peak detector

QPSK 5G NR N48 (40MHz, High Channel)



Rev 9.5 18 Oct 2021



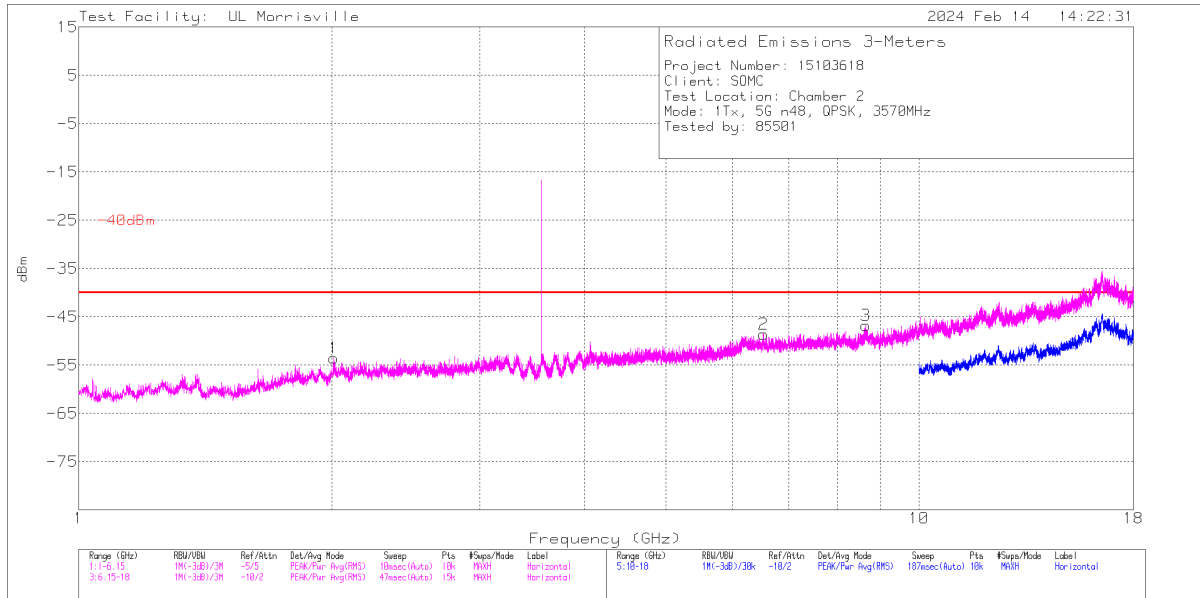
Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.56715	-64.46	Pk	32.5	-33.7	11.8	.7	-53.16	-40	-13.16	0-360	200	H
4	2.75512	-64.27	Pk	32.3	-33.6	11.8	.6	-53.17	-40	-13.17	0-360	200	V
5	5.04533	-65.07	Pk	34.1	-31.5	11.8	.5	-50.17	-40	-10.17	0-360	101	V
2	6.15079	-67.37	Pk	35.5	-28	11.8	.5	-47.57	-40	-7.57	0-360	101	H
6	7.74975	-69.19	Pk	35.8	-26.9	11.8	.8	-47.69	-40	-7.69	0-360	200	V
3	8.62981	-70.02	Pk	35.8	-26.3	11.8	1.4	-47.32	-40	-7.32	0-360	101	H

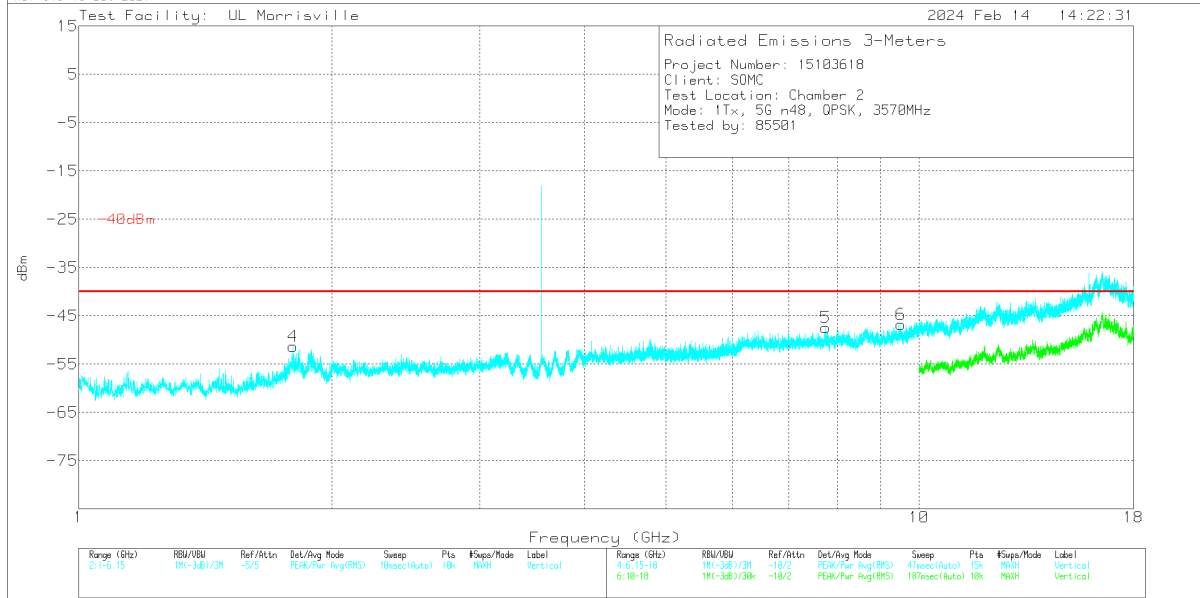
Pk - Peak detector

Sub-UHB Antenna

QPSK 5G NR N48 (40MHz, Low Channel)



Rev 9.5 18 Oct 2021

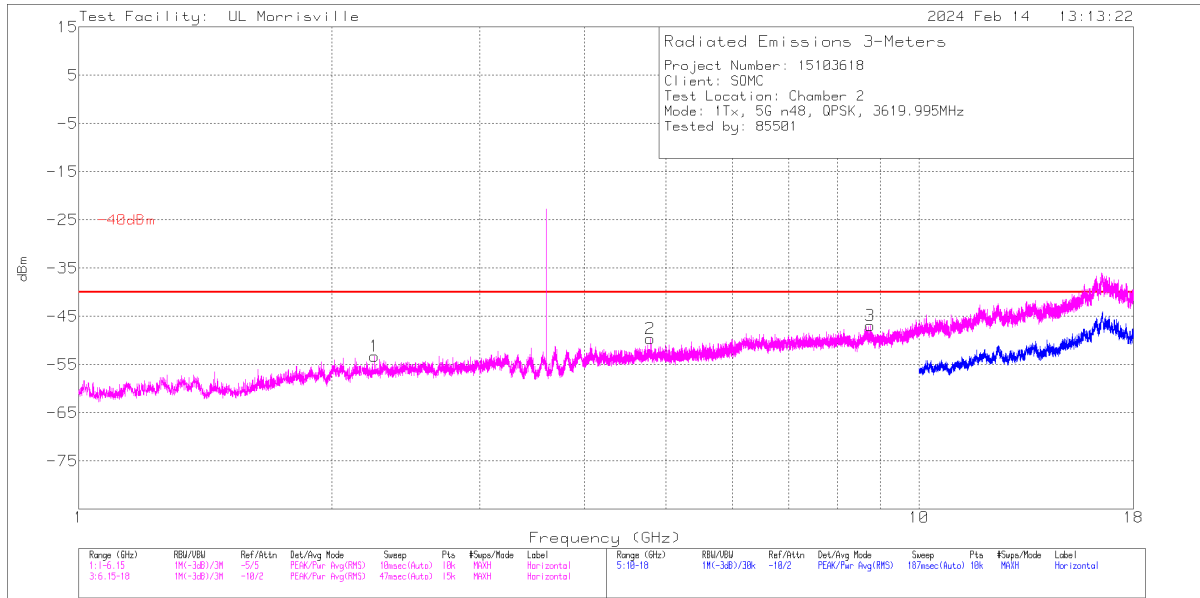


Rev 9.5 18 Oct 2021

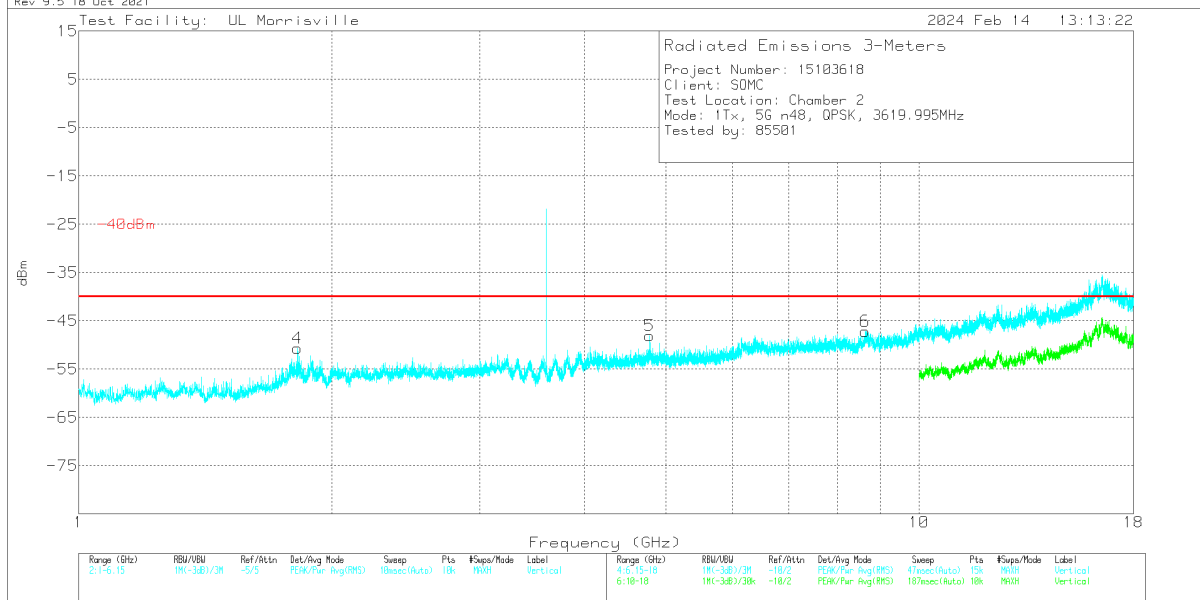
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4	1.79877	-59.69	Pk	30.5	-34.5	11.8	.6	-51.29	-40	-11.29	0-360	200	V
1	2.01198	-63.84	Pk	31.6	-33.9	11.8	.8	-53.54	-40	-13.54	0-360	299	H
2	6.53157	-68.65	Pk	35.6	-27.8	11.8	.5	-48.55	-40	-8.55	0-360	300	H
5	7.74738	-68.8	Pk	35.8	-27	11.8	.8	-47.4	-40	-7.4	0-360	101	V
3	8.65114	-69.22	Pk	35.8	-26.3	11.8	1.2	-46.72	-40	-6.72	0-360	200	H
6	9.5233	-70.42	Pk	36.4	-25.4	11.8	.8	-46.82	-40	-6.82	0-360	300	V

Pk - Peak detector

QPSK 5G NR N48 (40MHz, Mid Channel)



Rev 9.5 18 Oct 2021

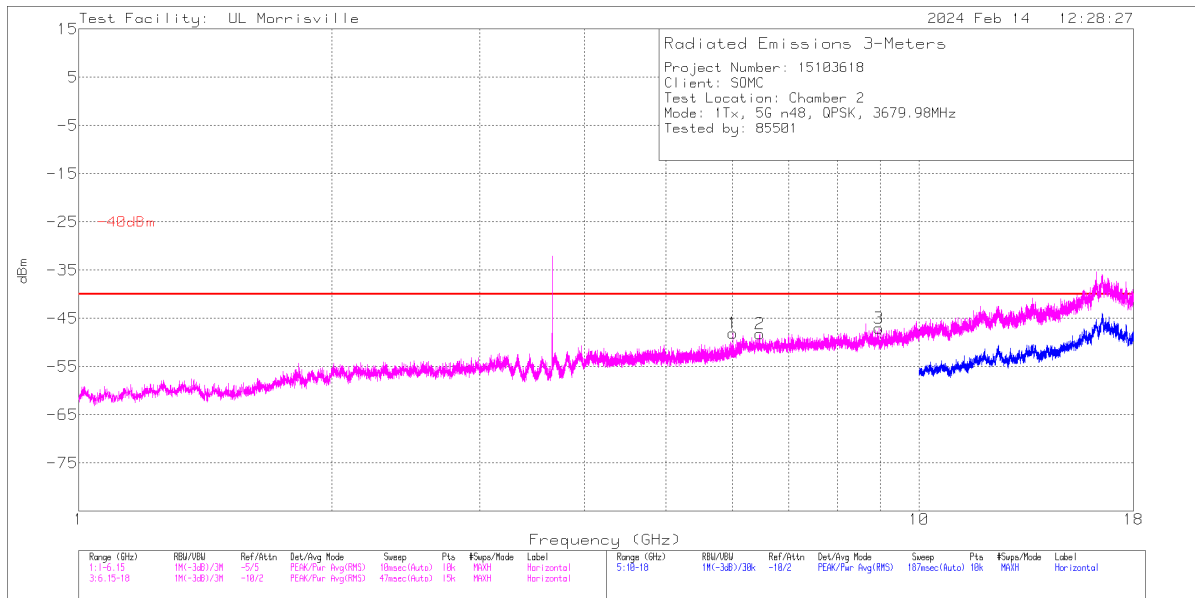


Rev 9.5 18 Oct 2021

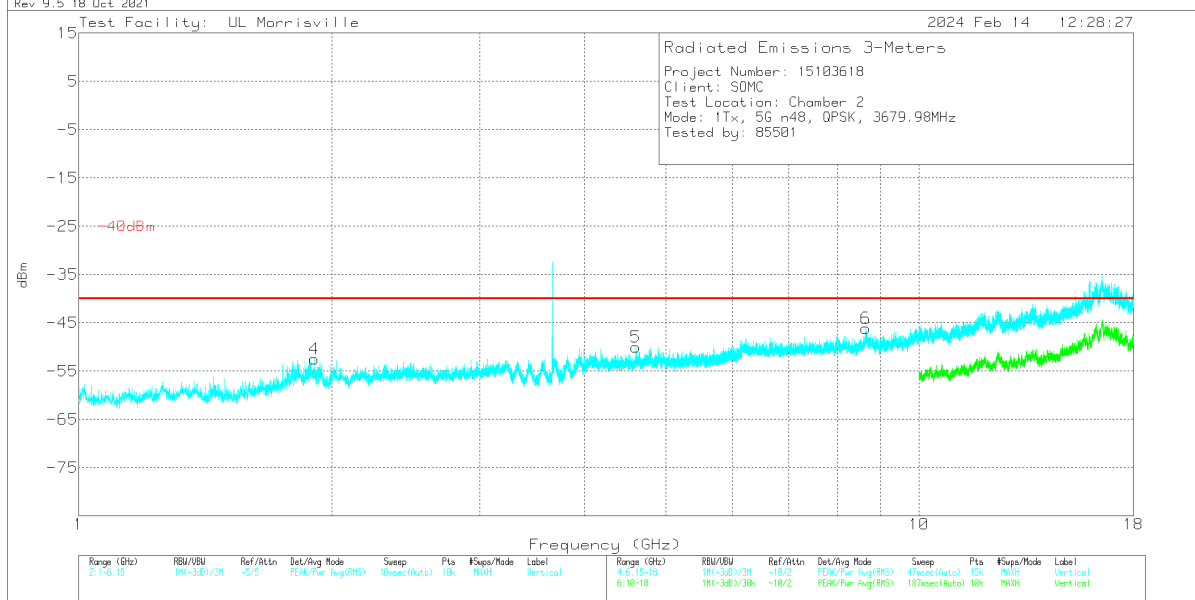
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.82091	-59.42	Pk	30.6	-34.4	11.8	.7	-50.72	-40	-10.72	0-360	101	V
1	2.24836	-64.08	Pk	32	-33.9	11.8	.9	-53.28	-40	-13.28	0-360	300	H
5	4.78268	-63.47	Pk	34.2	-31.1	11.8	.5	-48.07	-40	-8.07	0-360	101	V
2	4.78783	-65.02	Pk	34.2	-31.1	11.8	.5	-49.62	-40	-9.62	0-360	200	H
6	8.63376	-69.7	Pk	35.8	-26.4	11.8	1.4	-47.1	-40	-7.1	0-360	101	V
3	8.74515	-69.22	Pk	35.9	-26.7	11.8	1.3	-46.92	-40	-6.92	0-360	200	H

Pk - Peak detector

QPSK 5G NR N48 (40MHz, High Channel)



Rev 9.5 18 Oct 2021



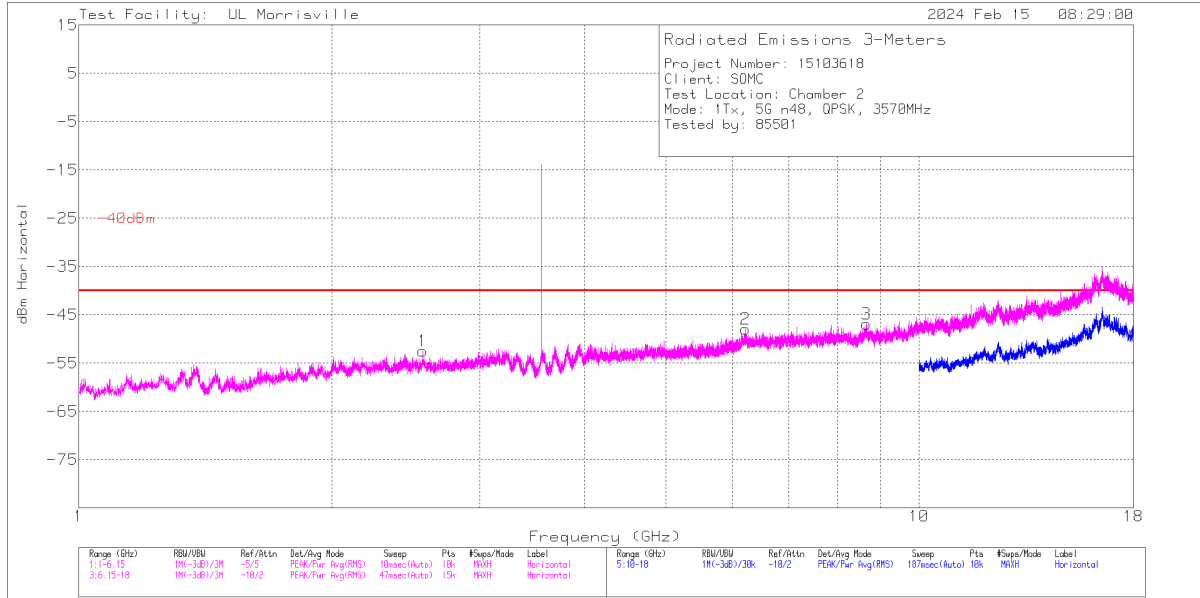
Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.90846	-61.36	Pk	31	-34.5	11.8	.6	-52.46	-40	-12.46	0-360	101	V
5	4.60346	-64.98	Pk	34	-31.5	11.8	.7	-49.98	-40	-9.98	0-360	101	V
1	6.00374	-65.88	Pk	35.2	-29.7	11.8	.5	-48.08	-40	-8.08	0-360	101	H
2	6.46679	-67.95	Pk	35.7	-28.2	11.8	.5	-48.15	-40	-8.15	0-360	101	H
6	8.63771	-68.54	Pk	35.8	-26.5	11.8	1.3	-46.14	-40	-6.14	0-360	200	V
3	8.95529	-69.09	Pk	35.9	-26.4	11.8	.8	-46.99	-40	-6.99	0-360	199	H

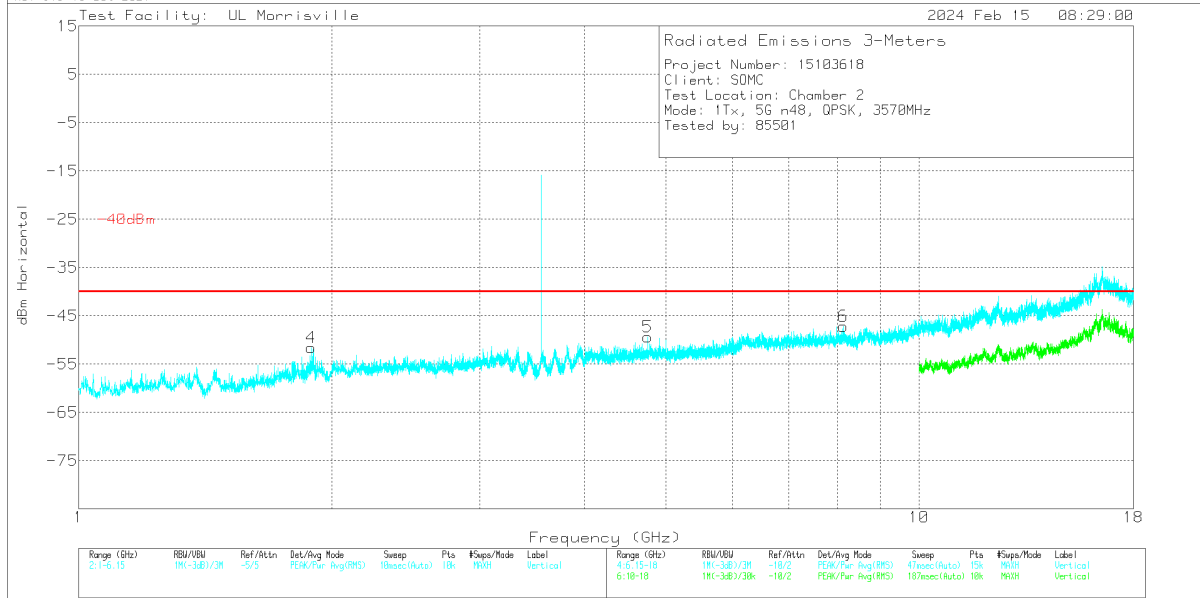
Pk - Peak detector

Cell 3rd Antenna

QPSK 5G NR N48 (40MHz, Low Channel)



Rev 9.5 18 Oct 2021

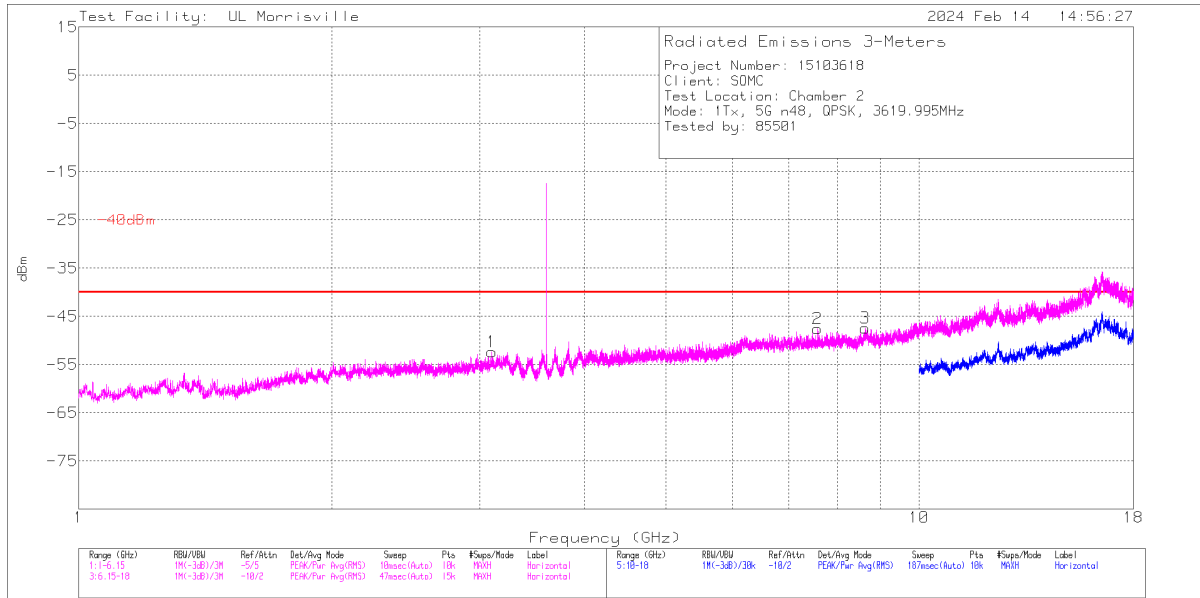


Rev 9.5 18 Oct 2021

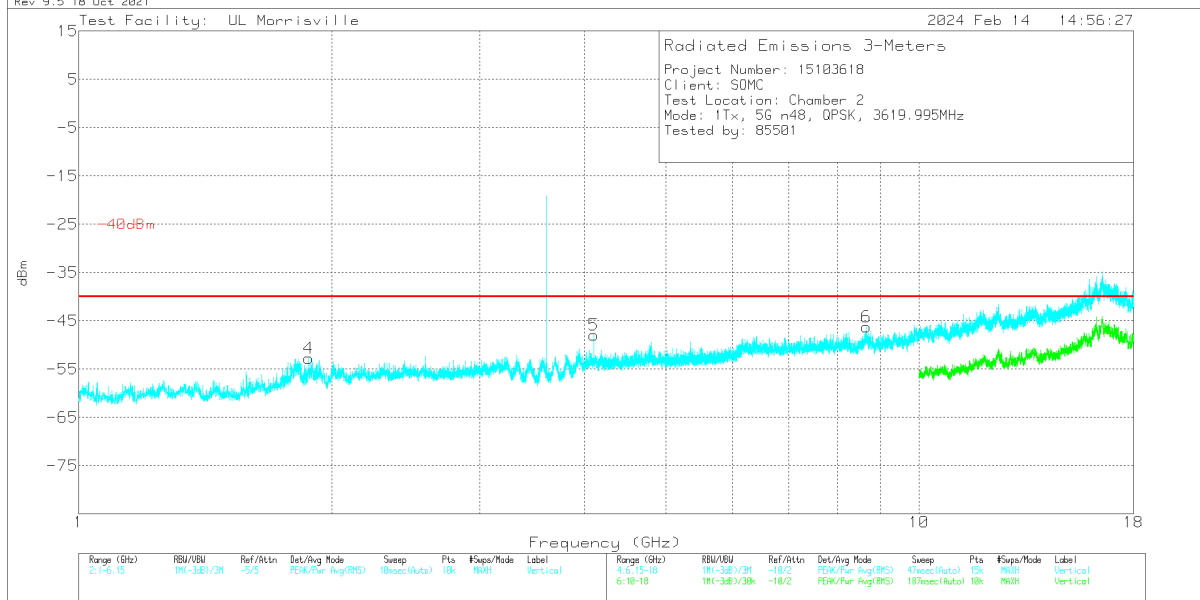
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.88941	-60.52	Pk	30.9	-34.4	11.8	.7	-51.52	-40	-11.52	0-360	101	V
1	2.56663	-63.73	Pk	32.5	-33.7	11.8	.7	-52.43	-40	-12.43	0-360	100	H
5	4.75178	-65.01	Pk	34.2	-31	11.8	.6	-49.41	-40	-9.41	0-360	101	V
2	6.21478	-67.36	Pk	35.6	-28.5	11.8	.5	-47.96	-40	-7.96	0-360	199	H
6	8.12421	-68.71	Pk	35.8	-26.8	11.8	.7	-47.21	-40	-7.21	0-360	101	V
3	8.6543	-69.24	Pk	35.8	-26.4	11.8	1.2	-46.84	-40	-6.84	0-360	101	H

Pk - Peak detector

QPSK 5G NR N48 (40MHz, Mid Channel)



Rev 9.5 18 Oct 2021

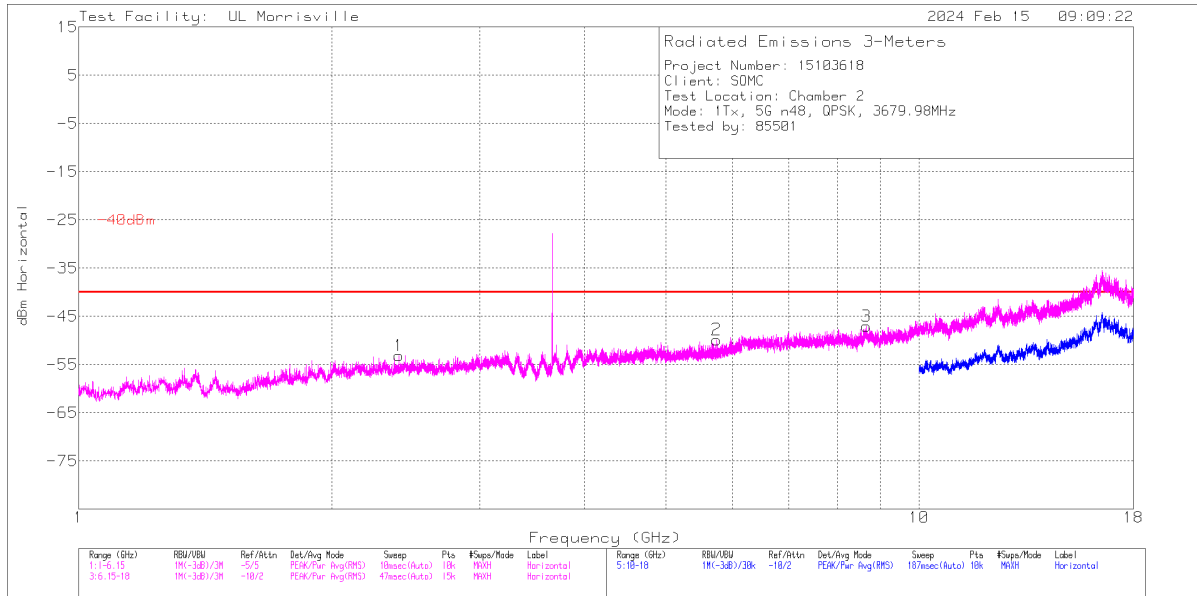


Rev 9.5 18 Oct 2021

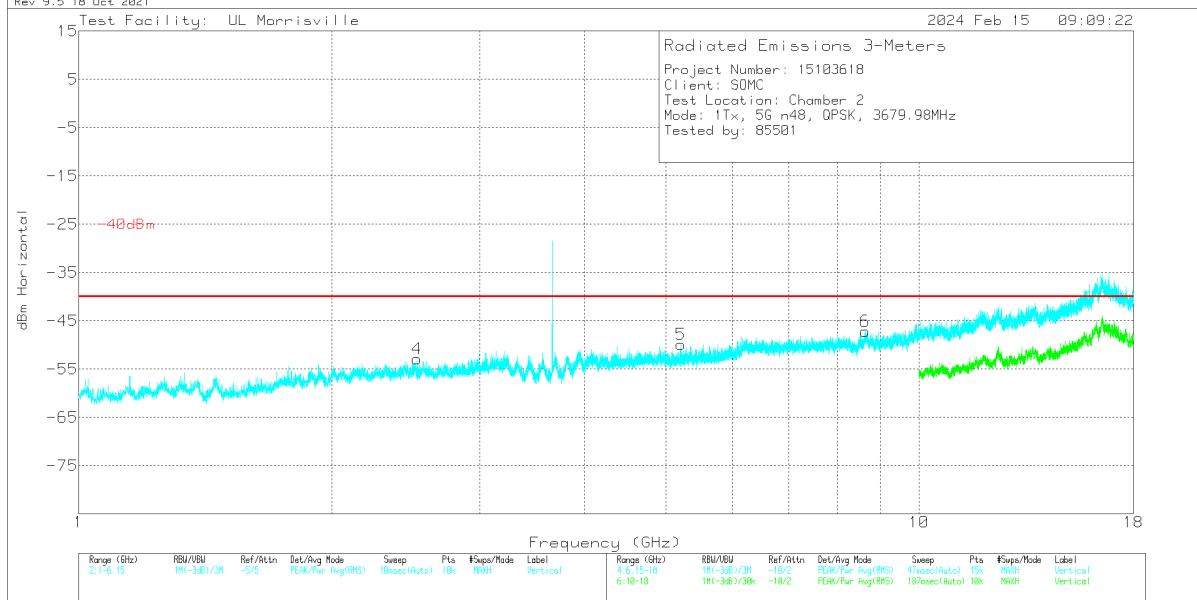
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.87859	-61.87	Pk	30.9	-34.3	11.8	.7	-52.77	-40	-12.77	0-360	200	V
1	3.10326	-64.87	Pk	33	-33.3	11.8	1	-52.37	-40	-12.37	0-360	100	H
5	4.10236	-62.57	Pk	33.4	-31.7	11.8	1.1	-47.97	-40	-7.97	0-360	101	V
2	7.57121	-69.14	Pk	35.7	-26.6	11.8	.7	-47.54	-40	-7.54	0-360	200	H
3	8.62349	-70.09	Pk	35.8	-26.3	11.8	1.4	-47.39	-40	-7.39	0-360	200	H
6	8.65746	-68.45	Pk	35.8	-26.5	11.8	1.1	-46.25	-40	-6.25	0-360	200	V

Pk - Peak detector

QPSK 5G NR N48 (40MHz, High Channel)



Rev 9.5 18 Oct 2021



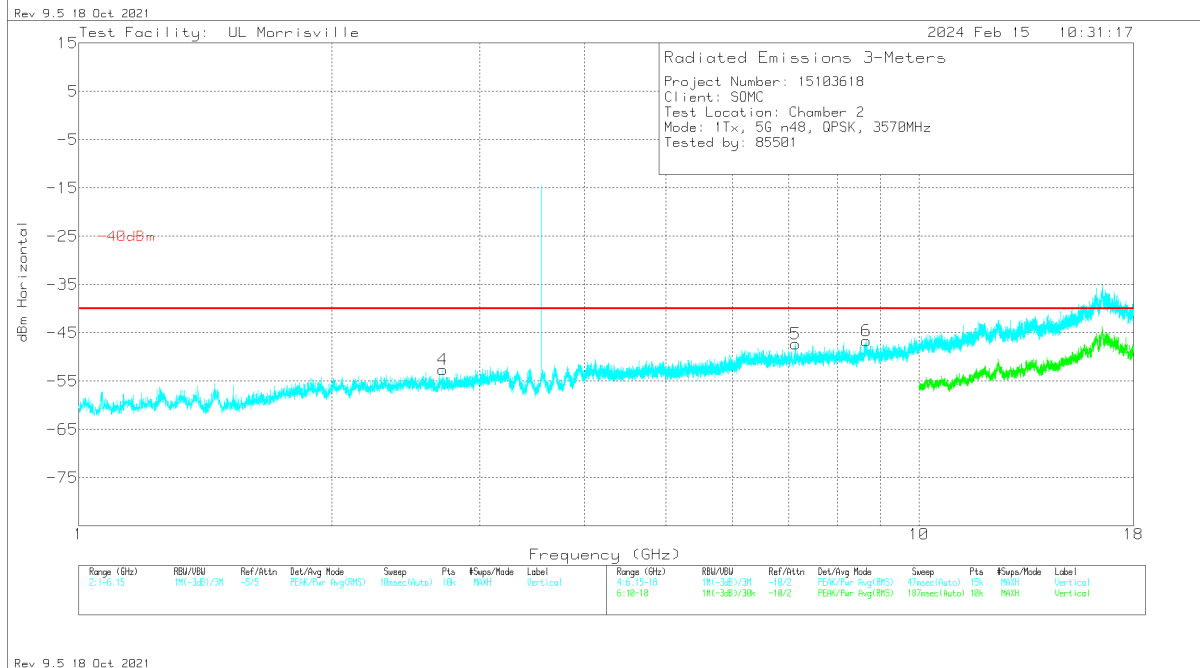
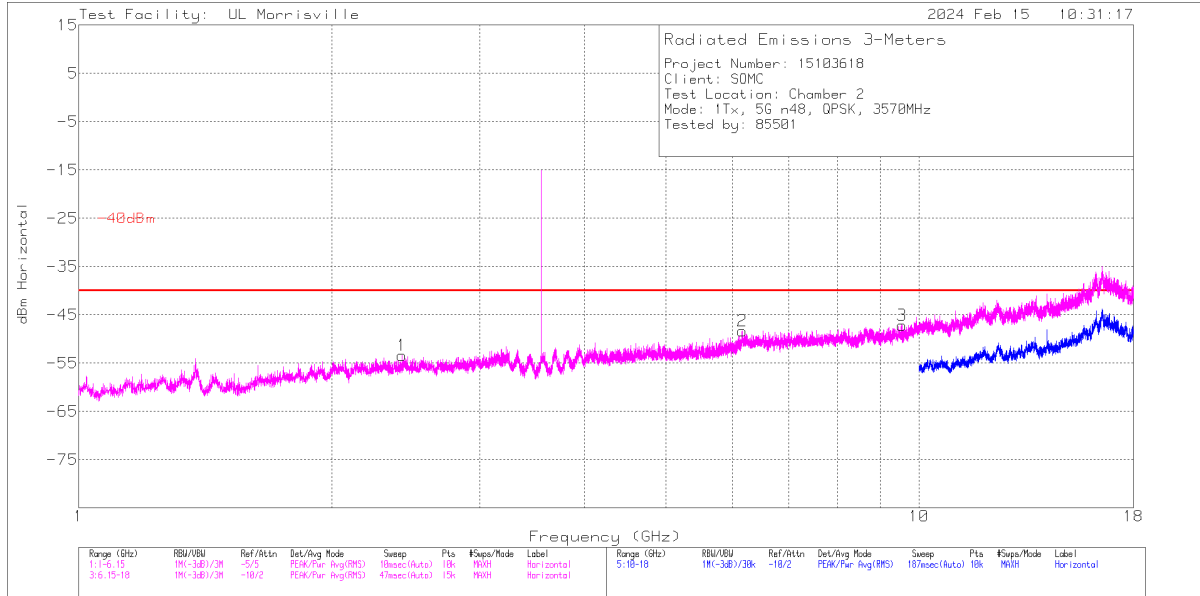
Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.40544	-63.98	Pk	32.3	-34	11.8	.8	-53.08	-40	-13.08	0-360	101	H
4	2.52595	-64.17	Pk	32.5	-33.8	11.8	.8	-52.87	-40	-12.87	0-360	101	V
5	5.20446	-65.7	Pk	34.2	-30.7	11.8	.5	-49.9	-40	-9.9	0-360	101	V
2	5.74521	-66.52	Pk	34.7	-30.3	11.8	.5	-49.82	-40	-9.82	0-360	299	H
6	8.62744	-69.82	Pk	35.8	-26.3	11.8	1.4	-47.12	-40	-7.12	0-360	101	V
3	8.65825	-69.26	Pk	35.8	-26.5	11.8	1.1	-47.06	-40	-7.06	0-360	299	H

Pk - Peak detector

Cell 4th Antenna

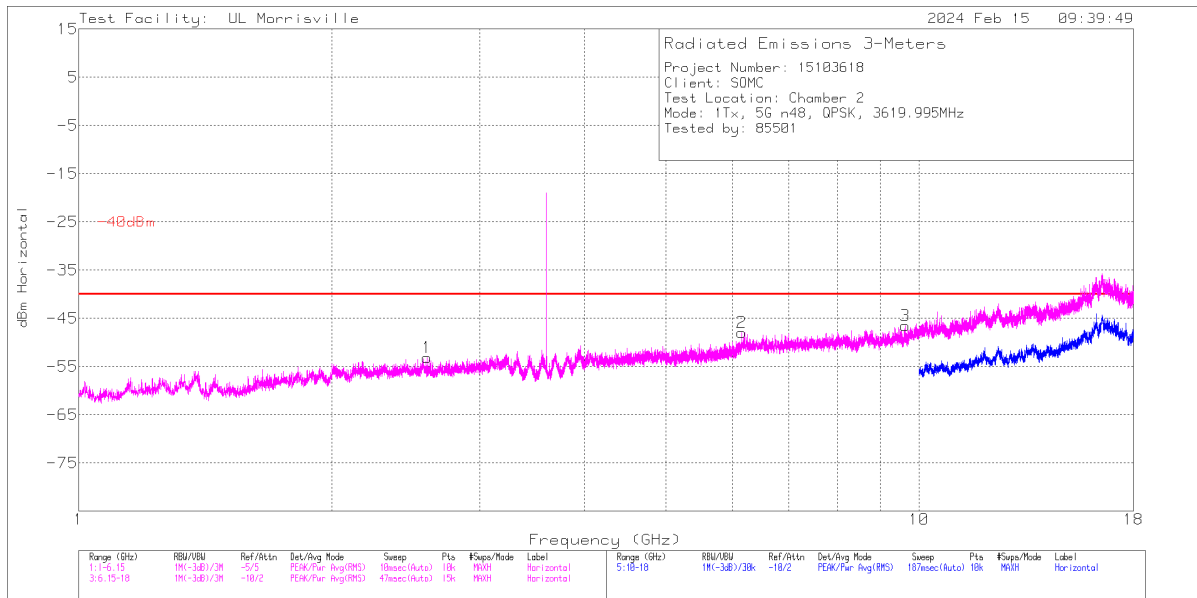
QPSK 5G NR N48 (40MHz, Low Channel)



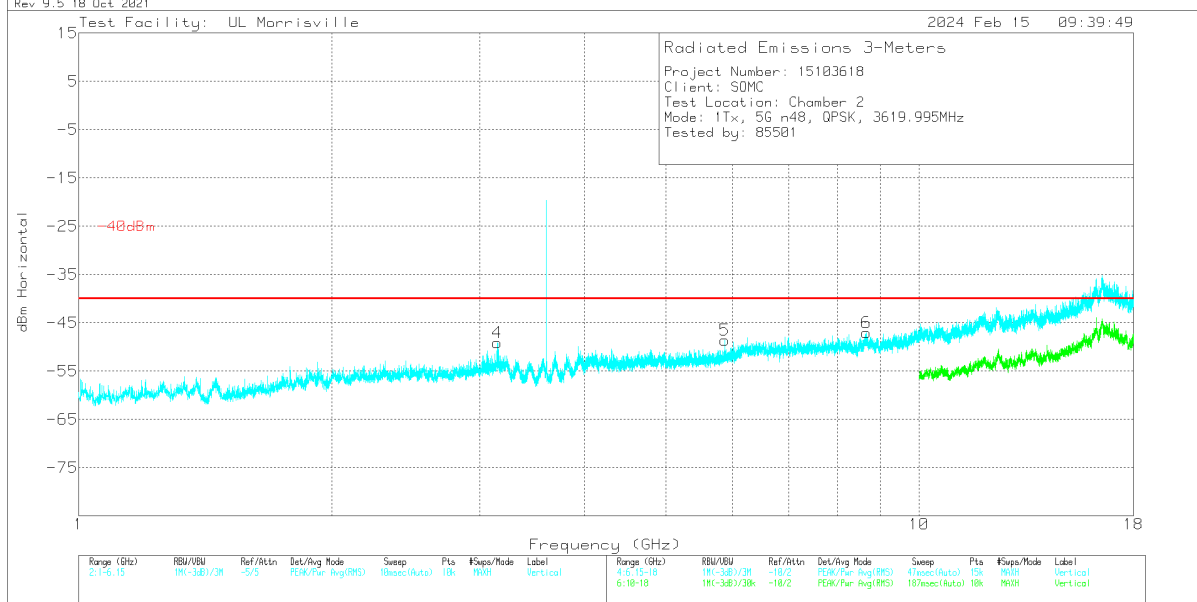
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.42501	-64.18	Pk	32.4	-34.1	11.8	.7	-53.38	-40	-13.38	0-360	299	H
4	2.71238	-63.96	Pk	32.2	-33.9	11.8	1.2	-52.66	-40	-12.66	0-360	299	V
2	6.16659	-67.78	Pk	35.5	-28.4	11.8	.5	-48.38	-40	-8.38	0-360	200	H
5	7.12644	-67.54	Pk	35.6	-27.7	11.8	.6	-47.24	-40	-7.24	0-360	300	V
6	8.65272	-69.08	Pk	35.8	-26.4	11.8	1.2	-46.68	-40	-6.68	0-360	300	V
3	9.54937	-70.52	Pk	36.4	-25.5	11.8	.7	-47.12	-40	-7.12	0-360	200	H

Pk - Peak detector

QPSK 5G NR N48 (40MHz, Mid Channel)



Rev 9.5 18 Oct 2021

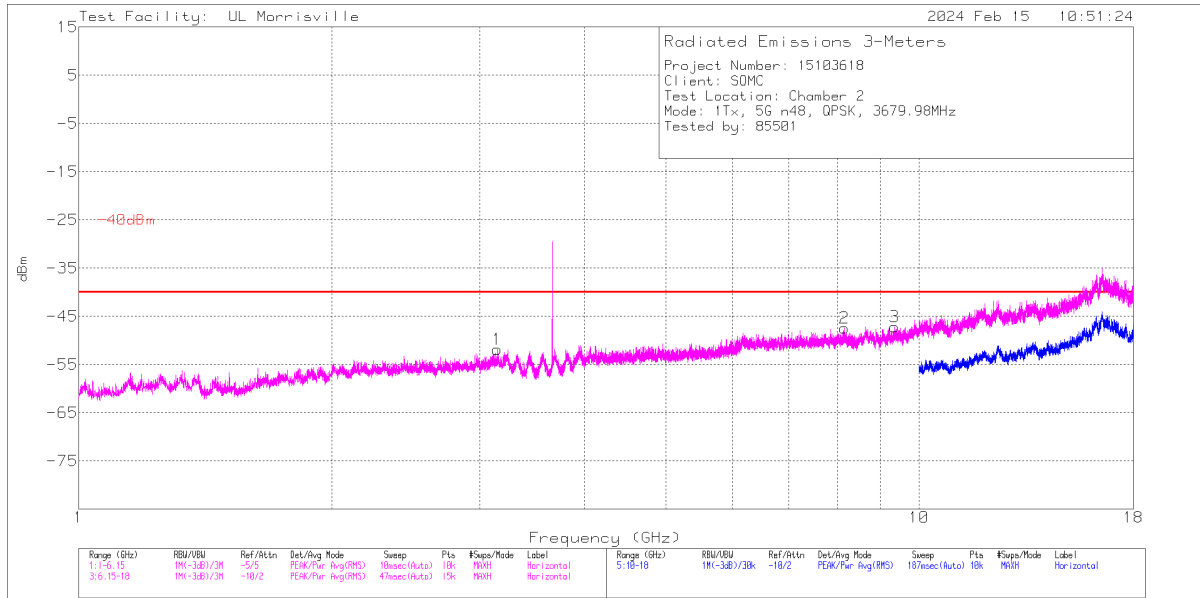


Rev 9.5 18 Oct 2021

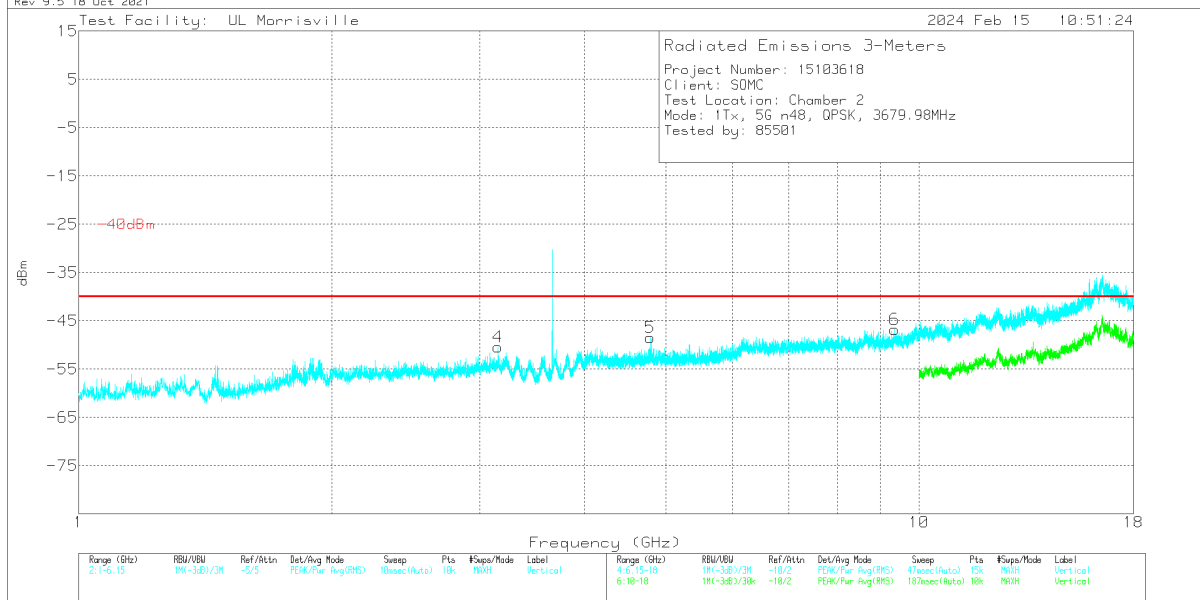
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.59856	-64.02	Pk	32.4	-33.9	11.8	.6	-53.12	-40	-13.12	0-360	101	H
4	3.15116	-61.83	Pk	33	-33.2	11.8	1.1	-49.13	-40	-9.13	0-360	101	V
5	5.87602	-66.34	Pk	35	-29.4	11.8	.4	-48.54	-40	-8.54	0-360	200	V
2	6.15079	-67.69	Pk	35.5	-28	11.8	.5	-47.89	-40	-7.89	0-360	299	H
6	8.65588	-69.32	Pk	35.8	-26.4	11.8	1.1	-47.02	-40	-7.02	0-360	299	V
3	9.63074	-70.35	Pk	36.6	-25.5	11.8	1	-46.45	-40	-6.45	0-360	101	H

Pk - Peak detector

QPSK 5G NR N48 (40MHz, High Channel)



Rev 9.5 18 Oct 2021



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Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.14755	-64.49	Pk	33	-33.3	11.8	1.1	-51.89	-40	-11.89	0-360	200	H
4	3.15425	-63.19	Pk	33	-33.2	11.8	1.2	-50.39	-40	-10.39	0-360	101	V
5	4.78525	-63.88	Pk	34.2	-31.1	11.8	.5	-48.48	-40	-8.48	0-360	200	V
2	8.14791	-69.3	Pk	35.8	-26.5	11.8	.8	-47.4	-40	-7.4	0-360	101	H
6	9.35424	-69.99	Pk	36.1	-25.6	11.8	.9	-46.79	-40	-6.79	0-360	200	V
3	9.35661	-70.17	Pk	36.1	-25.7	11.8	.8	-47.17	-40	-7.17	0-360	101	H

Pk - Peak detector

10.1.14. LTE BAND 66

LIMITS

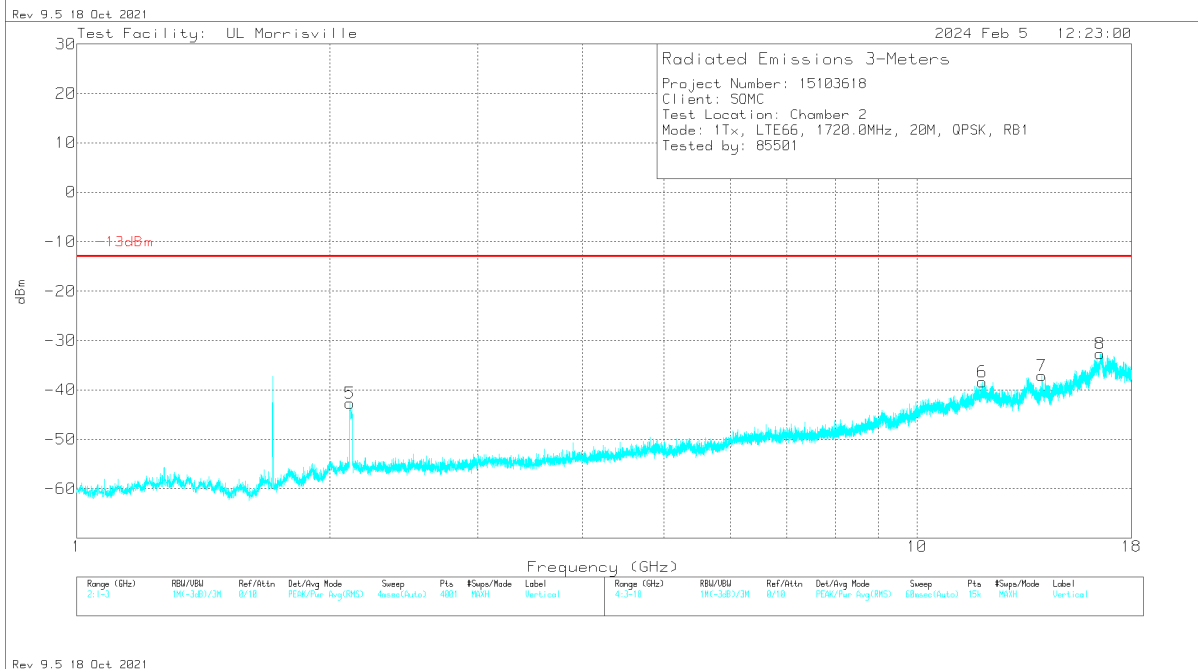
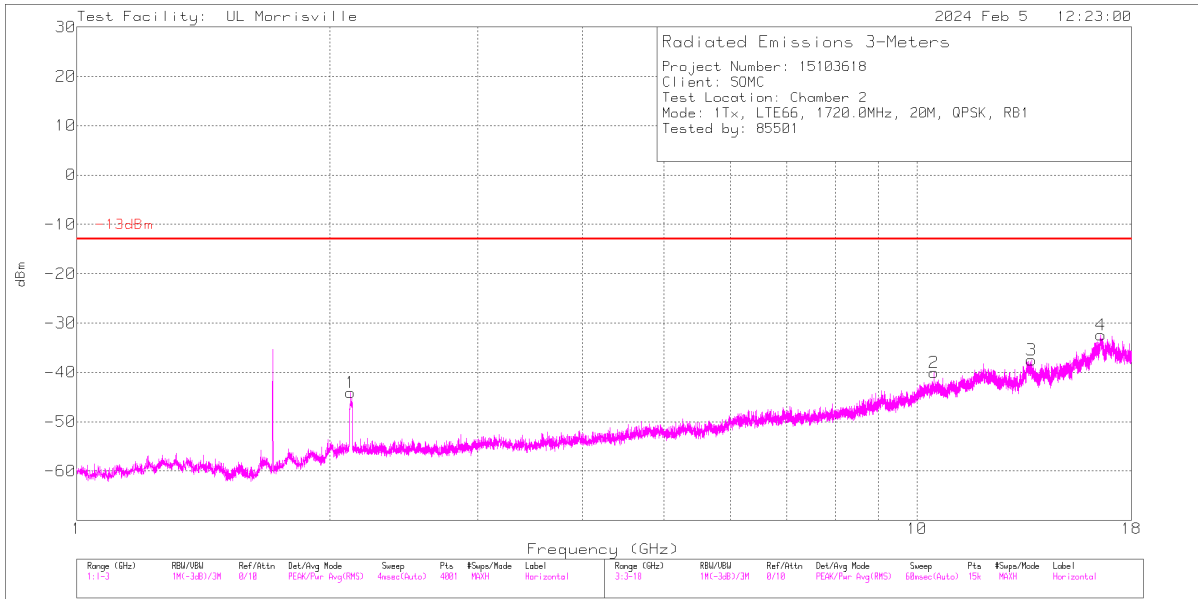
FCC: §27.53(h)

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.

Main Antenna

EUT Serial Number: QV77008ELY

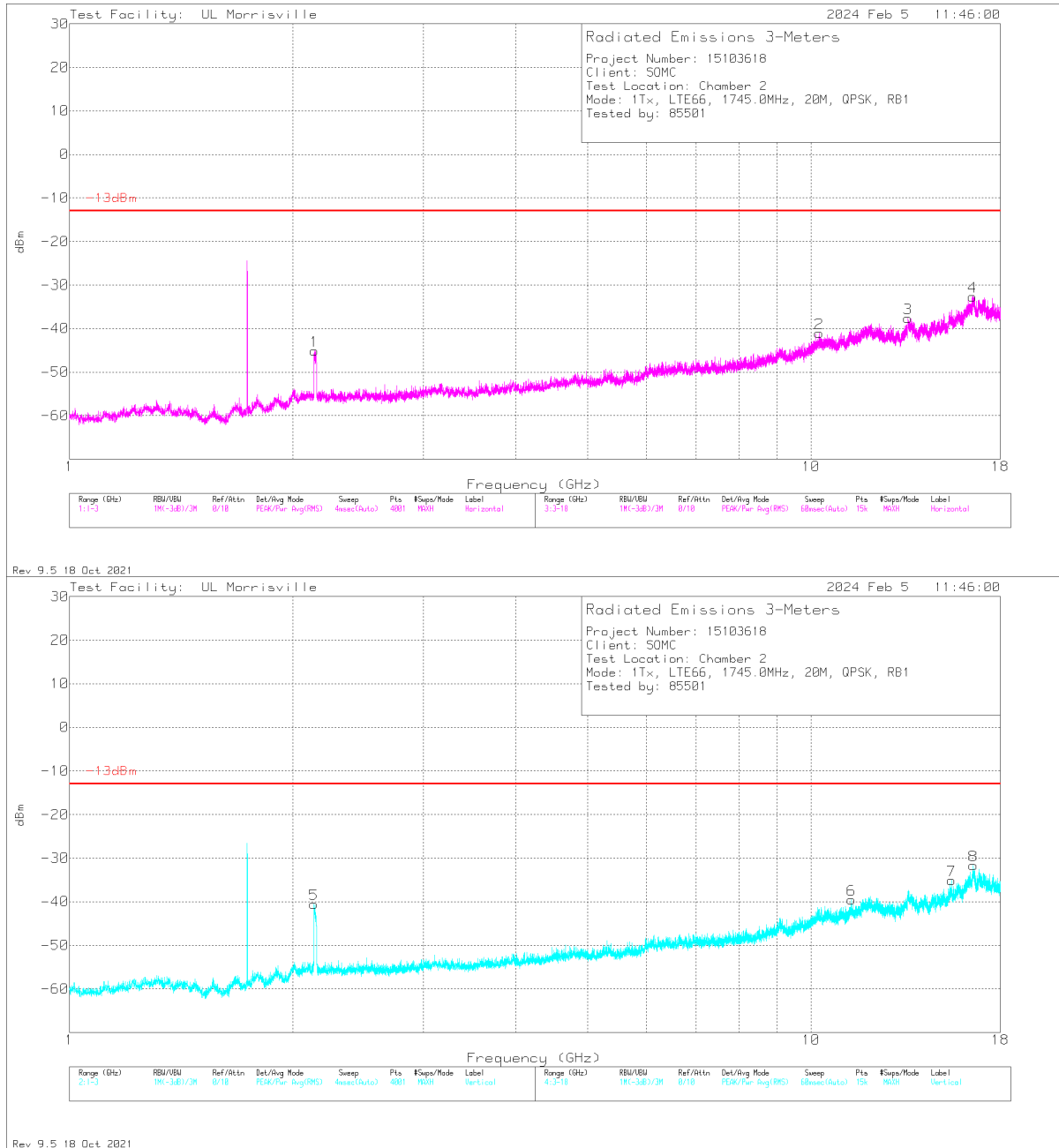
QSPK LTE66 (20MHz, Low Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	2.115	-53.36	Pk	31.9	-34.2	11.8	1.2	-42.66	-13	-29.66	0-360	101	V
1	2.119	-54.83	Pk	31.9	-34.2	11.8	1.2	-44.13	-13	-31.13	0-360	101	H
2	10.482	-65.52	Pk	37.7	-24	11.8	0	-40.02	-13	-27.02	0-360	299	H
6	11.963	-66	Pk	38.9	-23.1	11.8	0	-38.4	-13	-25.4	0-360	200	V
3	13.686	-64.73	Pk	38.9	-23.5	11.8	0	-37.53	-13	-24.53	0-360	200	H
7	14.078	-65.55	Pk	39.2	-22.6	11.8	0	-37.15	-13	-24.15	0-360	101	V
8	16.525	-67	Pk	40.7	-18.2	11.8	0	-32.7	-13	-19.7	0-360	200	V
4	16.56	-66.77	Pk	40.7	-18.1	11.8	0	-32.37	-13	-19.37	0-360	100	H

Pk - Peak detector

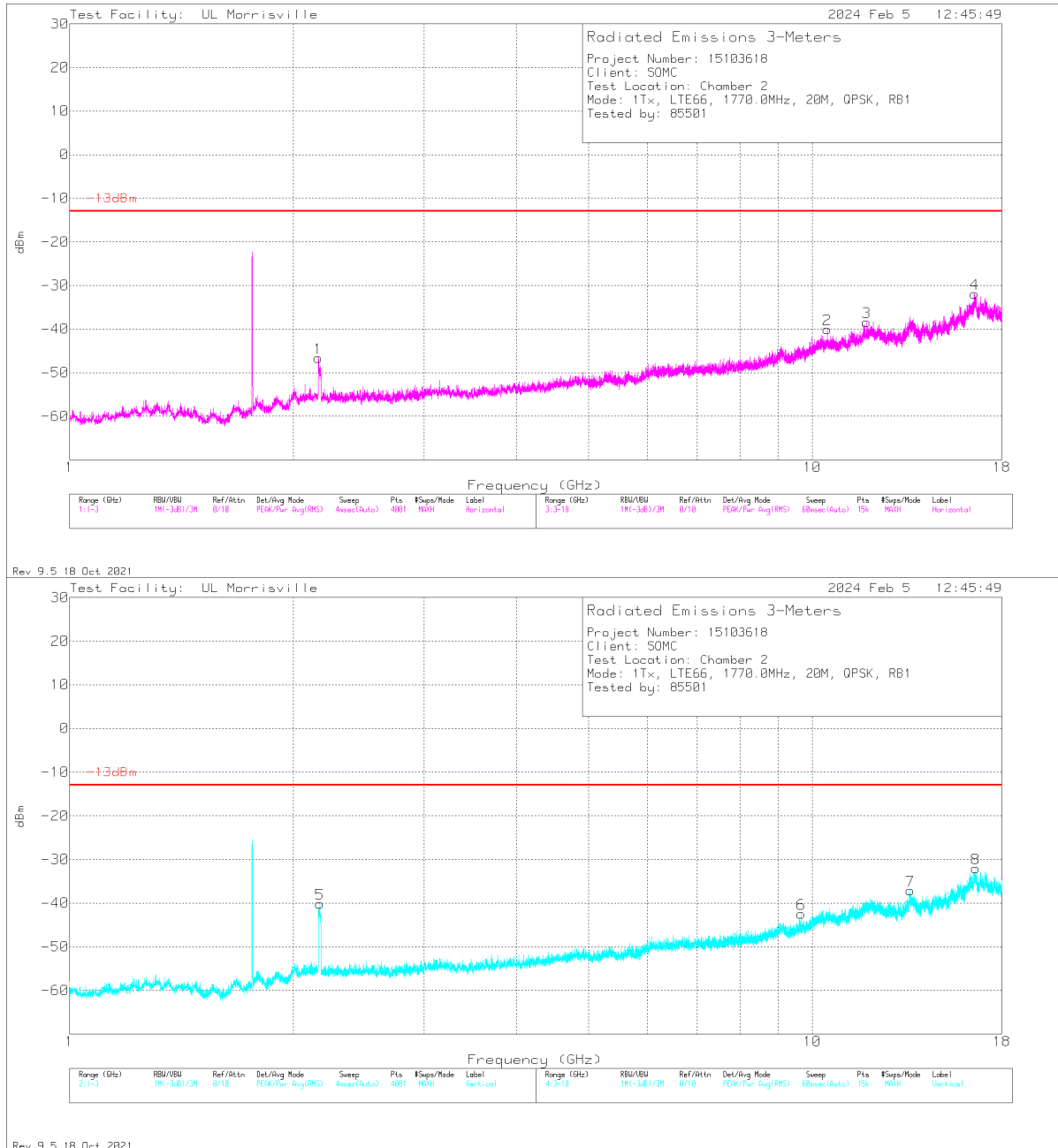
QSPK LTE66 (20MHz, Mid Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	2.1375	-51.48	Pk	32	-34.1	11.8	1.2	-40.58	-13	-27.58	0-360	101	V
1	2.1405	-56	Pk	32	-34.1	11.8	1.2	-45.1	-13	-32.1	0-360	101	H
2	10.256	-66.67	Pk	37.6	-23.8	11.8	0	-41.07	-13	-28.07	0-360	299	H
6	11.344	-67.11	Pk	37.8	-22	11.8	0	-39.51	-13	-26.51	0-360	200	V
3	13.513	-65.55	Pk	38.9	-22.8	11.8	0	-37.65	-13	-24.65	0-360	299	H
7	15.482	-66.45	Pk	40.4	-20.8	11.8	0	-35.05	-13	-22.05	0-360	299	V
4	16.523	-66.85	Pk	40.6	-18.2	11.8	0	-32.65	-13	-19.65	0-360	200	H
8	16.56	-66	Pk	40.7	-18.1	11.8	0	-31.6	-13	-18.6	0-360	299	V

Pk - Peak detector

QSPK LTE66 (20MHz, High Channel)

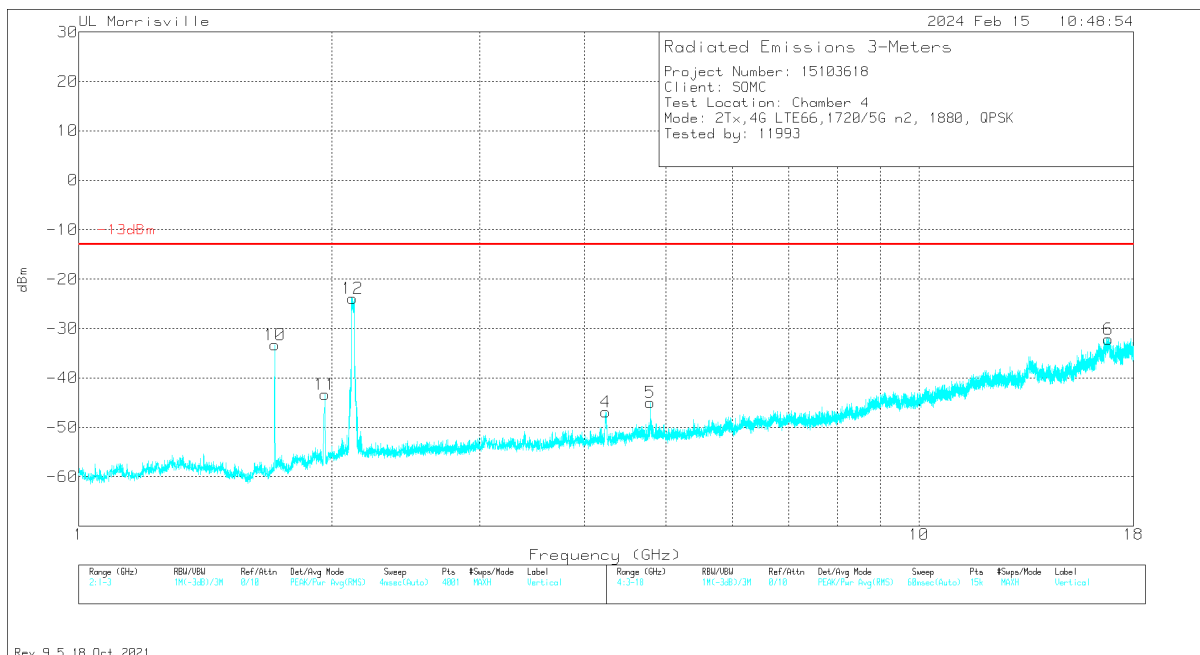
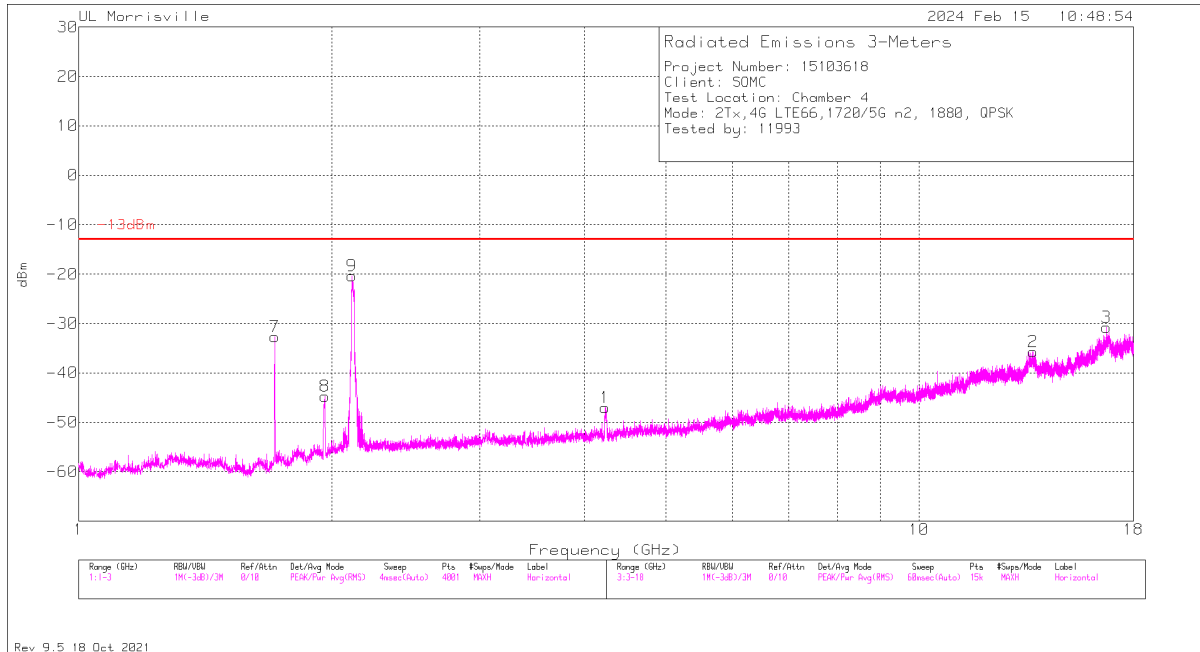


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.162	-57.17	Pk	32	-34.4	11.8	1.1	-46.67	-13	-33.67	0-360	101	H
5	2.173	-50.74	Pk	32	-34.2	11.8	1	-40.14	-13	-27.14	0-360	101	V
6	9.659	-65.6	Pk	36.6	-25.2	11.8	0	-42.4	-13	-29.4	0-360	101	V
2	10.477	-65.59	Pk	37.7	-23.9	11.8	0	-39.99	-13	-26.99	0-360	300	H
3	11.844	-65.64	Pk	38.8	-23.3	11.8	0	-38.34	-13	-25.34	0-360	300	H
7	13.554	-64.46	Pk	38.9	-23.3	11.8	0	-37.06	-13	-24.06	0-360	300	V
4	16.541	-66.58	Pk	40.7	-17.8	11.8	0	-31.88	-13	-18.88	0-360	101	H
8	16.592	-66.68	Pk	40.8	-18	11.8	0	-32.08	-13	-19.08	0-360	201	V

Pk - Peak detector

Sub Antenna

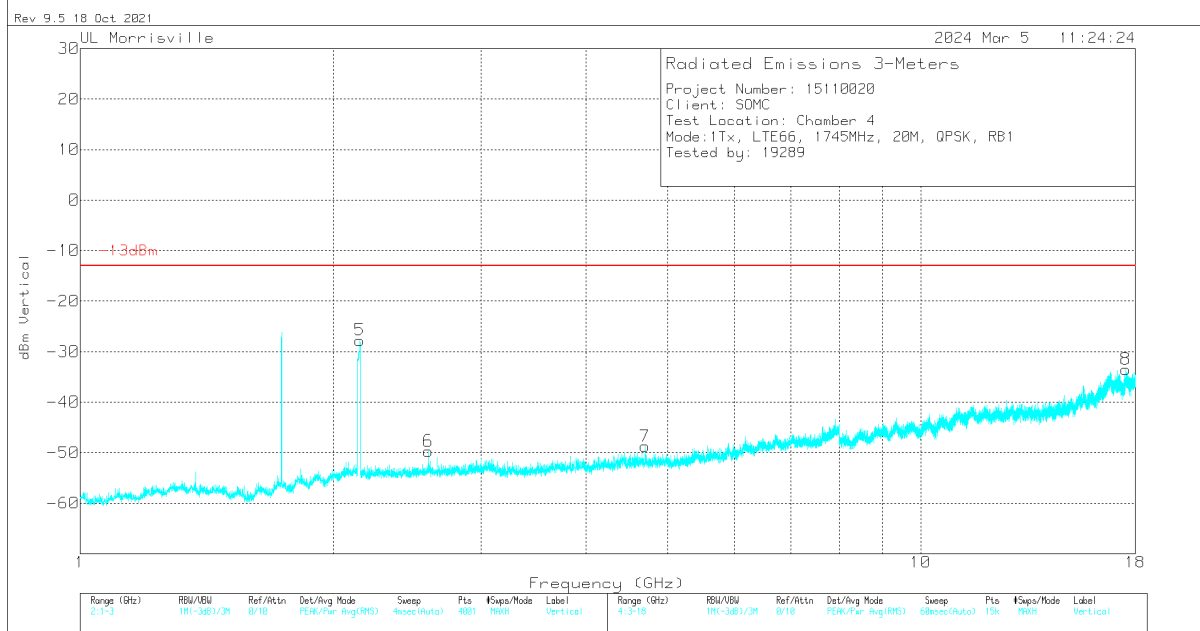
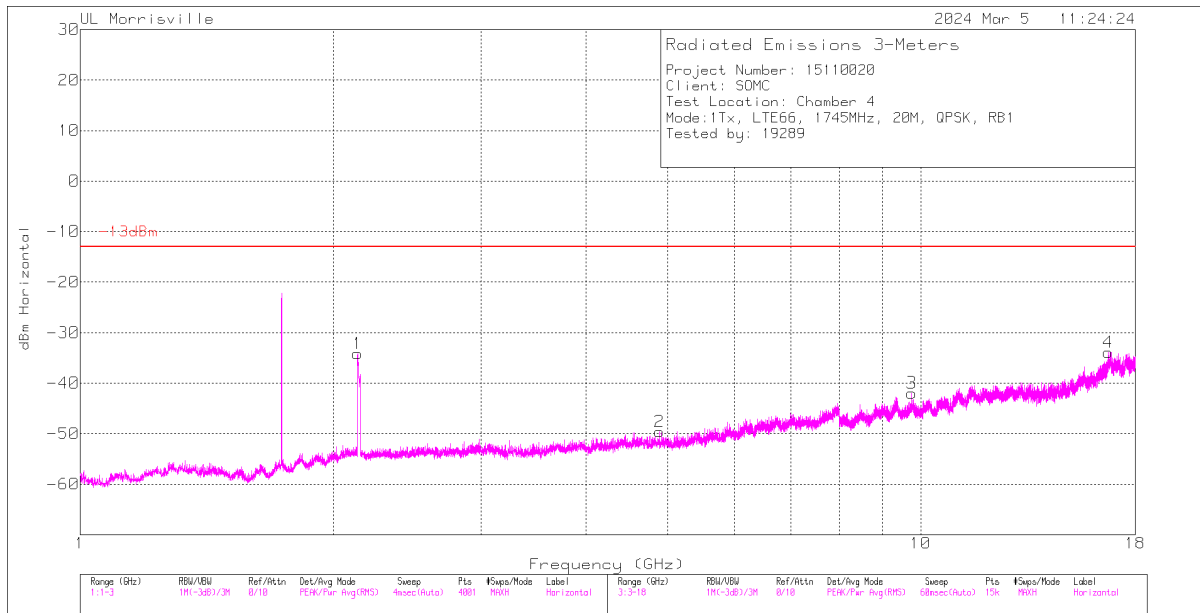
QPSK LTE66 (20MHz Low Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.229	-60.71	Pk	33.4	-31.5	11.8	0	-47.01	-13	-34.01	0-360	200	H
4	4.235	-60.59	Pk	33.4	-31.5	11.8	0	-46.89	-13	-33.89	0-360	300	V
5	4.785	-59.16	Pk	34.1	-31.7	11.8	0	-44.96	-13	-31.96	0-360	200	V
2	13.678	-64.81	Pk	38.6	-21.3	11.8	0	-35.71	-13	-22.71	0-360	100	H
3	16.722	-65.32	Pk	41.8	-19	11.8	0	-30.72	-13	-17.72	0-360	100	H
6	16.804	-66.68	Pk	41.9	-19.2	11.8	0	-32.18	-13	-19.18	0-360	200	V
7	1.711	-38.95	Pk	29.3	-36	11.8	1.2	-32.65	-	-	0-360	200	H
10	1.711	-39.65	Pk	29.3	-36	11.8	1.2	-33.35	-	-	0-360	200	V
8	1.9625	-52.38	Pk	30.9	-36.2	11.8	1.2	-44.68	-	-	0-360	100	H
11	1.9625	-51	Pk	30.9	-36.2	11.8	1.2	-43.3	-	-	0-360	300	V
9	2.1155	-28.82	Pk	31.6	-36.1	11.8	1.2	-20.32	-	-	0-360	100	H
12	2.1175	-32.48	Pk	31.6	-36	11.8	1.2	-23.88	-	-	0-360	300	V

Pk - Peak detector

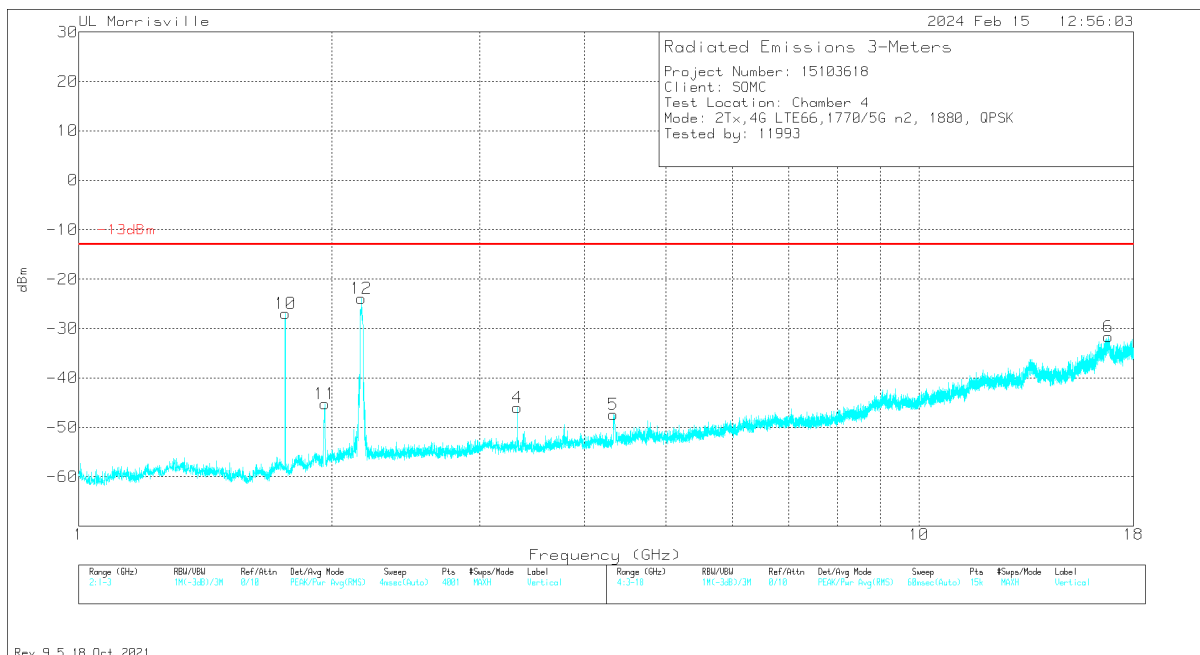
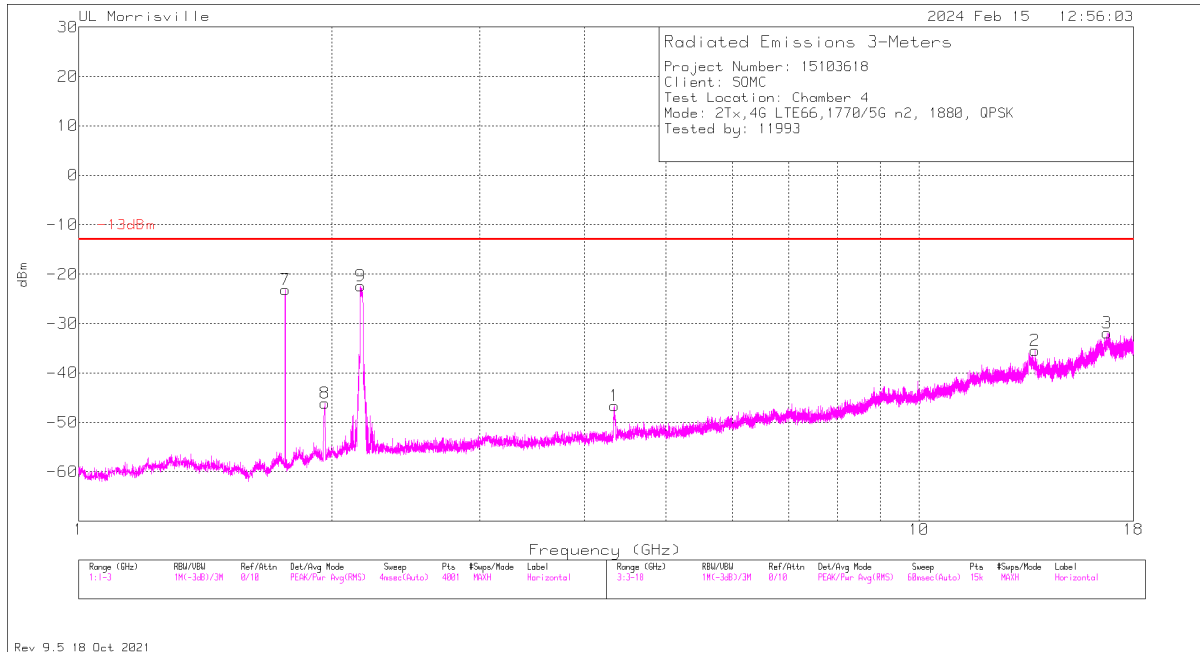
QPSK LTE66 (20MHz, Mid Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1 ^{DL}	2.138	-42.56	Pk	31.5	-36.2	11.8	1.3	-34.16	-	-	0-360	100	H
5 ^{DL}	2.1515	-36.14	Pk	31.6	-36.2	11.8	1.2	-27.74	-	-	0-360	300	V
6	2.5935	-58.5	Pk	32.5	-36	11.8	.5	-49.7	-13	-36.7	0-360	300	V
7	4.697	-63.23	Pk	34.1	-31.4	11.8	0	-48.73	-13	-35.73	0-360	300	V
2	4.891	-64.19	Pk	34	-31.2	11.8	0	-49.59	-13	-36.59	0-360	100	H
3	9.757	-65.17	Pk	36.9	-25.5	11.8	0	-41.97	-13	-28.97	0-360	100	H
4	16.723	-68.31	Pk	41.8	-19.2	11.8	0	-33.91	-13	-20.91	0-360	100	H
8	17.529	-68.49	Pk	41.4	-18.2	11.8	0	-33.49	-13	-20.49	0-360	300	V

Pk - Peak detector DL - Downlink

QPSK LTE66 (20MHz High Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	3.326	-56.73	Pk	32.9	-34	11.8	0	-46.03	-13	-33.03	0-360	200	V
5	4.328	-60.67	Pk	33.5	-32	11.8	0	-47.37	-13	-34.37	0-360	300	V
1	4.341	-60.1	Pk	33.5	-31.8	11.8	0	-46.6	-13	-33.6	0-360	100	H
2	13.756	-64.69	Pk	38.7	-21.3	11.8	0	-35.49	-13	-22.49	0-360	100	H
3	16.74	-66.22	Pk	41.9	-19.4	11.8	0	-31.92	-13	-18.92	0-360	100	H
6	16.802	-66.4	Pk	41.9	-19	11.8	0	-31.7	-13	-18.7	0-360	200	V
7	1.761	-29.61	Pk	29.7	-36.2	11.8	1.2	-23.11	-	-	0-360	100	H
10	1.761	-33.45	Pk	29.7	-36.2	11.8	1.2	-26.95	-	-	0-360	300	V
8	1.9635	-53.88	Pk	30.9	-36.2	11.8	1.2	-46.18	-	-	0-360	100	H
11	1.964	-52.98	Pk	30.9	-36.2	11.8	1.2	-45.28	-	-	0-360	300	V
9	2.1665	-30.65	Pk	31.6	-36.1	11.8	1	-22.35	-	-	0-360	100	H
12	2.17	-32.24	Pk	31.6	-36.1	11.8	1	-23.94	-	-	0-360	300	V

Pk - Peak detector

10.1.15. 5G NR n66

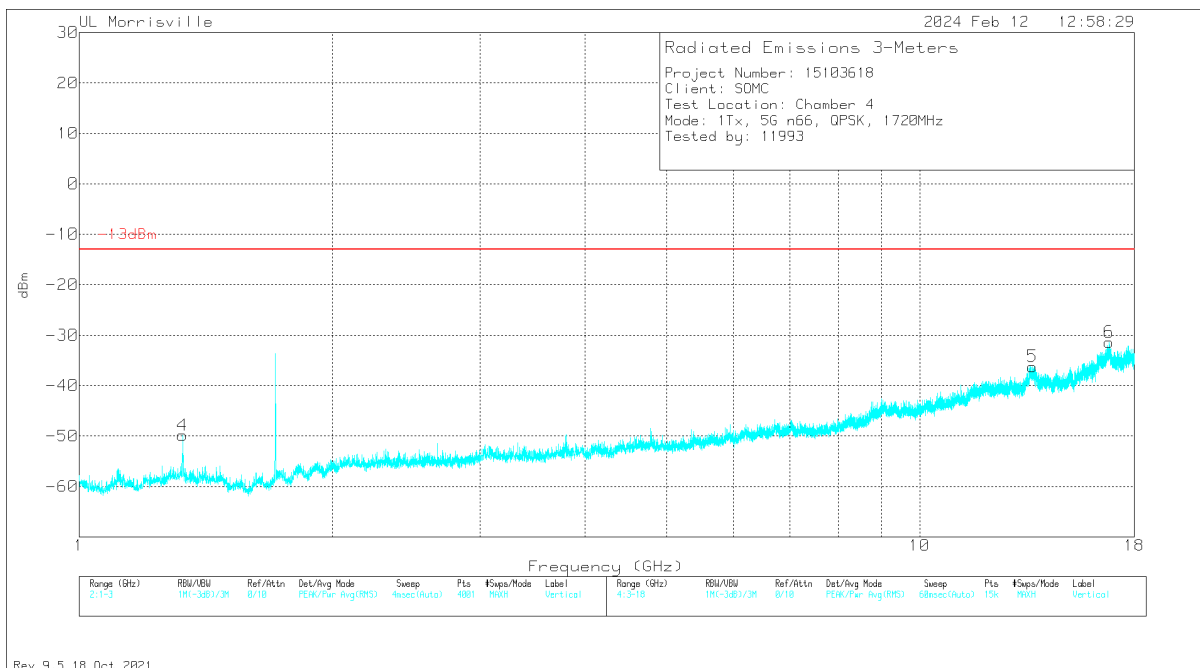
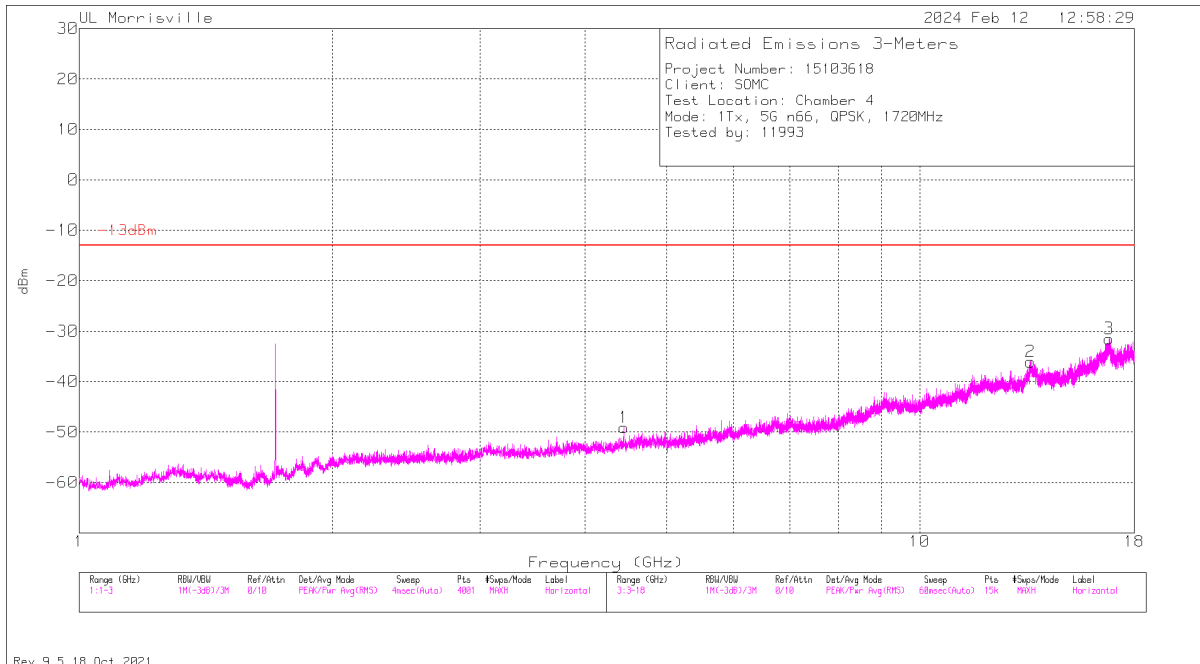
LIMITS

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.

EUT Serial Number: QV77008ELY

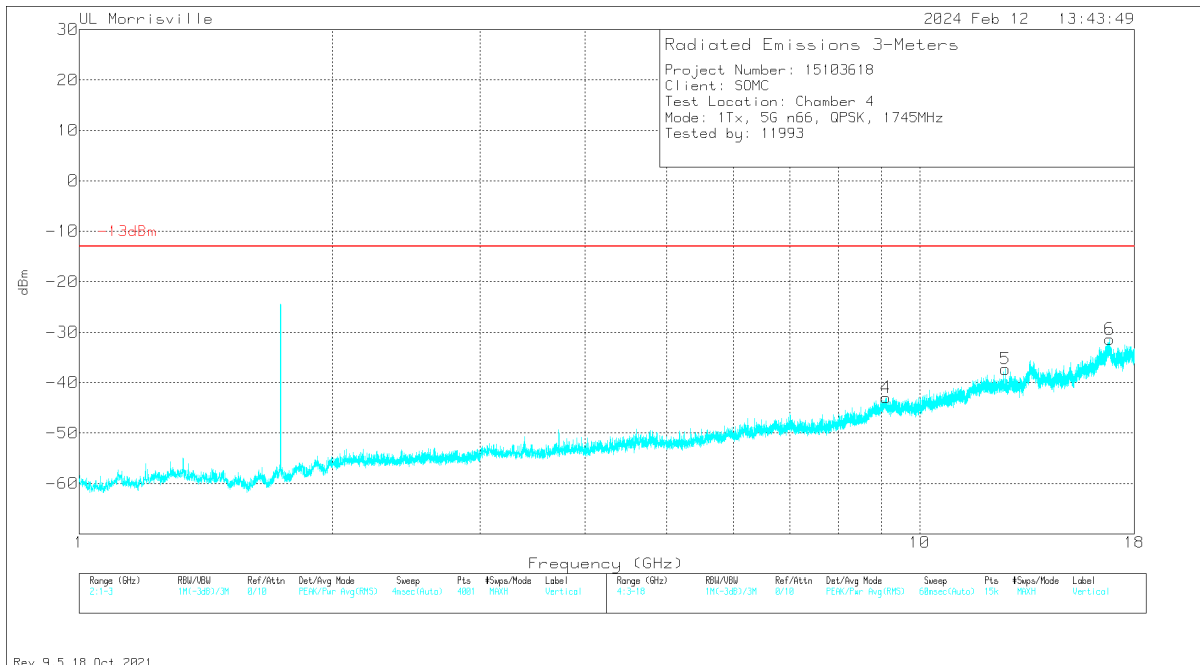
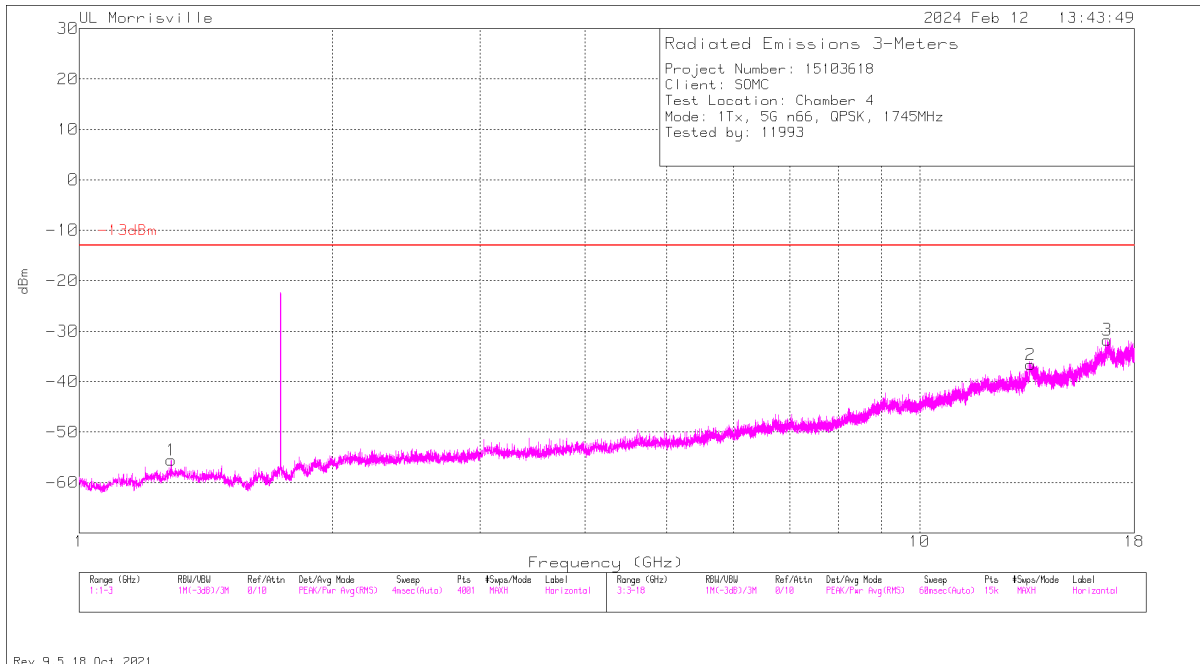
QPSK n66 (20MHz, Low Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.445	-63.52	Pk	33.7	-31.1	11.8	0	-49.12	-13	-36.12	0-360	200	H
2	13.542	-64.26	Pk	38.8	-22.4	11.8	0	-36.06	-13	-23.06	0-360	100	H
5	13.618	-64.63	Pk	38.7	-22.1	11.8	0	-36.23	-13	-23.23	0-360	300	V
6	16.801	-66.08	Pk	41.9	-19	11.8	0	-31.38	-13	-18.38	0-360	300	V
3	16.803	-66.19	Pk	41.9	-19	11.8	0	-31.49	-13	-18.49	0-360	100	H
4	1.327	-55.64	Pk	29	-36.1	11.8	1.1	-49.84	-13	-36.84	0-360	300	V

Pk - Peak detector

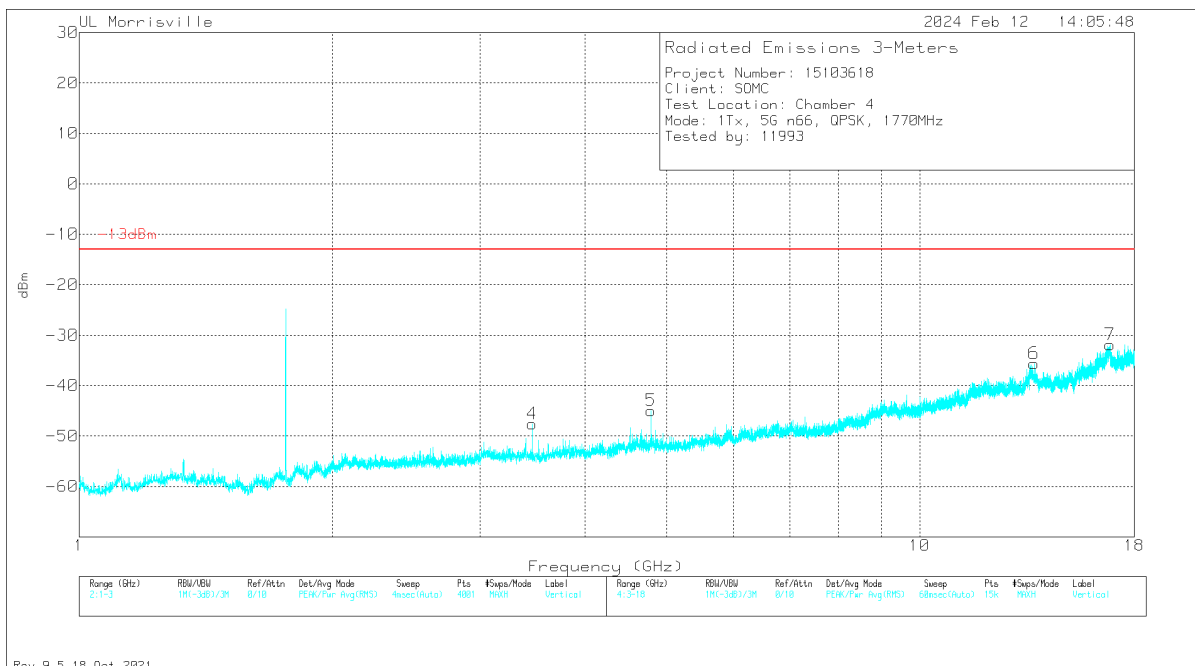
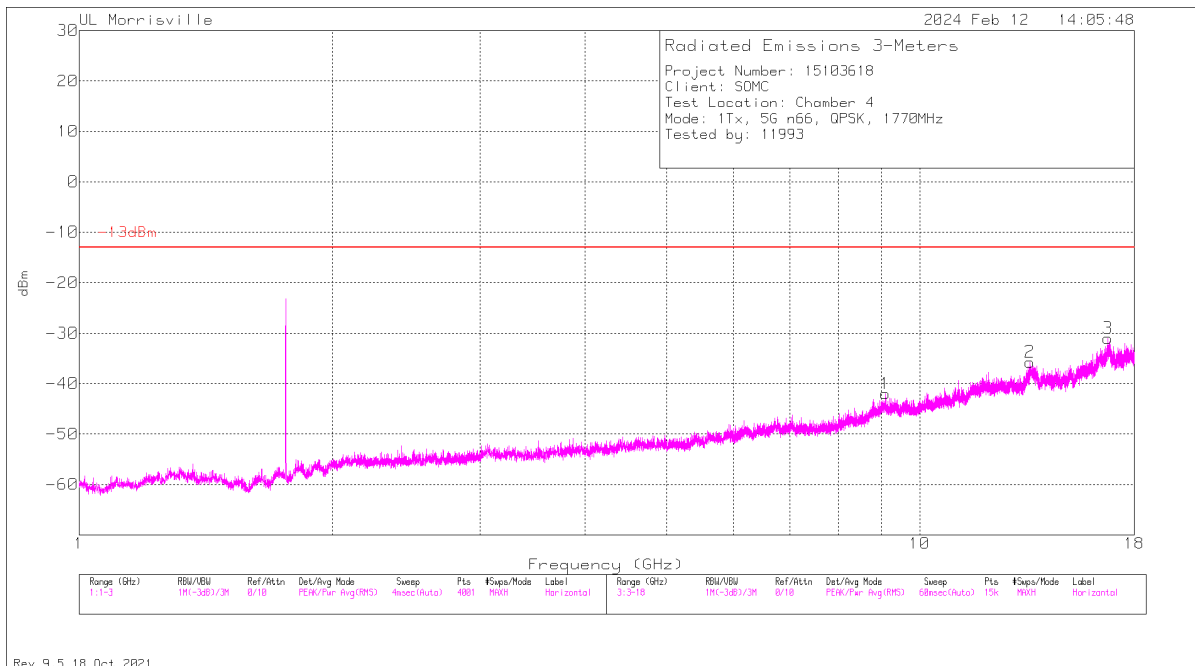
QPSK n66 (20MHz, Mid Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	9.115	-66.16	Pk	36.3	-24.9	11.8	0	-42.96	-13	-29.96	0-360	300	V
5	12.638	-65.5	Pk	39.1	-22.7	11.8	0	-37.3	-13	-24.3	0-360	300	V
2	13.542	-64.84	Pk	38.8	-22.4	11.8	0	-36.64	-13	-23.64	0-360	100	H
3	16.722	-66.34	Pk	41.8	-19	11.8	0	-31.74	-13	-18.74	0-360	200	H
6	16.827	-65.78	Pk	41.9	-19.3	11.8	0	-31.38	-13	-18.38	0-360	300	V
1	1.2865	-61.59	Pk	29.2	-36	11.8	1	-55.59	-13	-42.59	0-360	100	H

Pk - Peak detector

QPSK n66 (20MHz, High Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	3.458	-58.19	Pk	32.8	-34	11.8	0	-47.59	-13	-34.59	0-360	200	V
5	4.791	-59.34	Pk	34.1	-31.5	11.8	0	-44.94	-13	-31.94	0-360	200	V
1	9.102	-65.29	Pk	36.3	-24.8	11.8	0	-41.99	-13	-28.99	0-360	200	H
2	13.522	-64.82	Pk	38.8	-21.5	11.8	0	-35.72	-13	-22.72	0-360	200	H
6	13.677	-64.91	Pk	38.6	-21.1	11.8	0	-35.61	-13	-22.61	0-360	300	V
3	16.736	-64.52	Pk	41.9	-20.2	11.8	0	-31.02	-13	-18.02	0-360	100	H
7	16.845	-66.38	Pk	41.9	-19.2	11.8	0	-31.88	-13	-18.88	0-360	300	V

Pk - Peak detector

10.1.16. LTE BAND 71

LIMITS

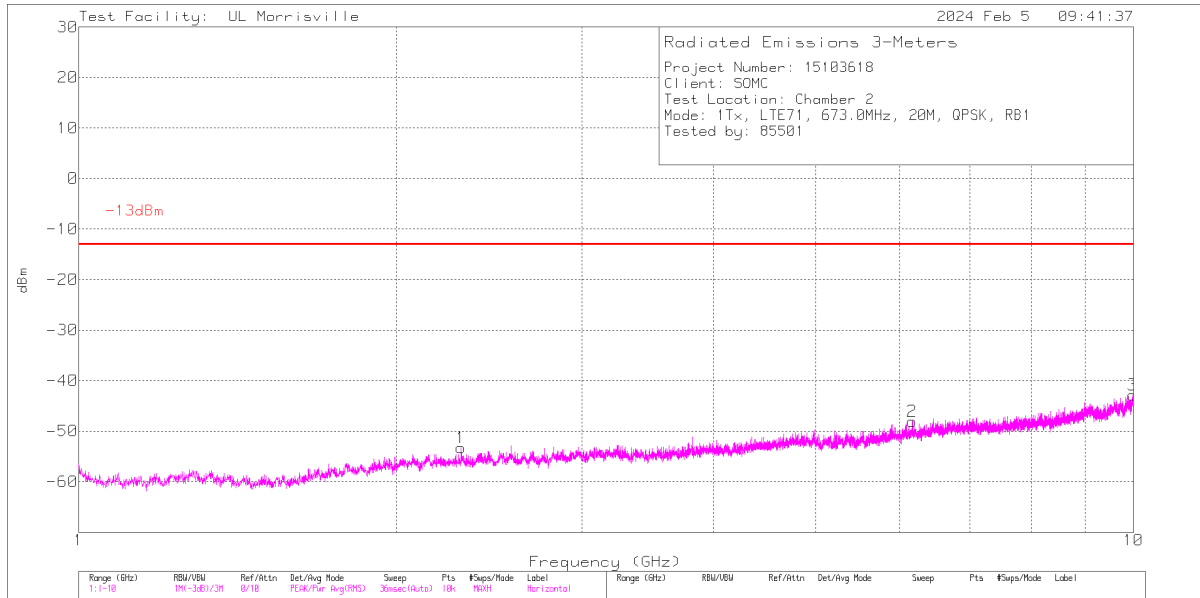
FCC: §27.53 (g)

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

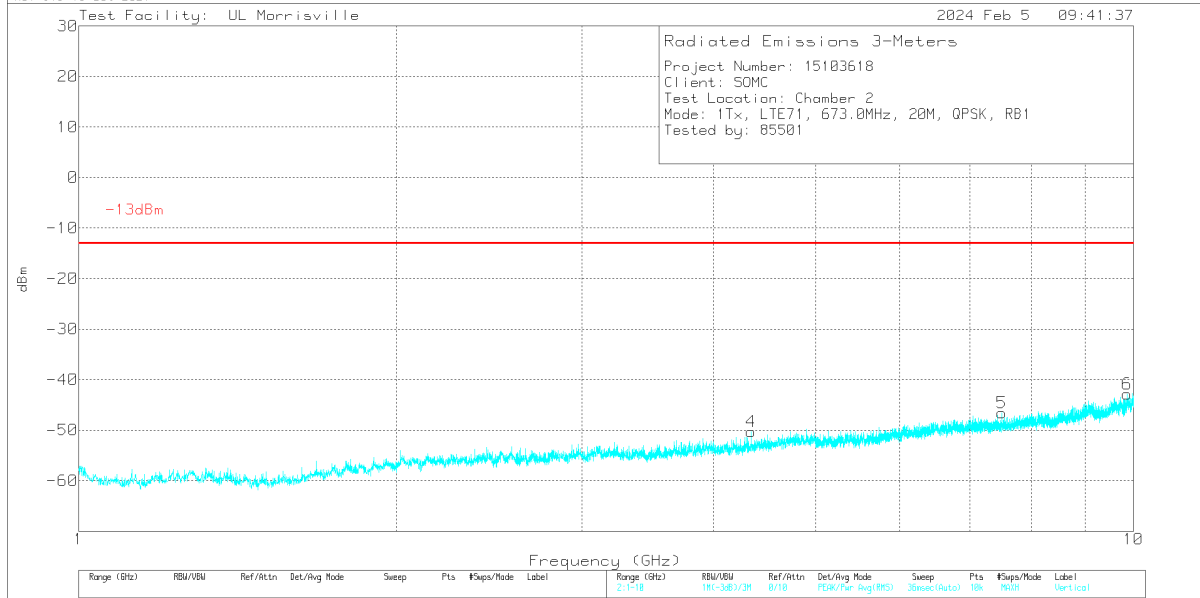
EUT Serial Number: QV77008ELY

Main Antenna

QPSK LTE BAND 71 20MHz, Low Channel)



Rev 9.5 18 Oct 2021

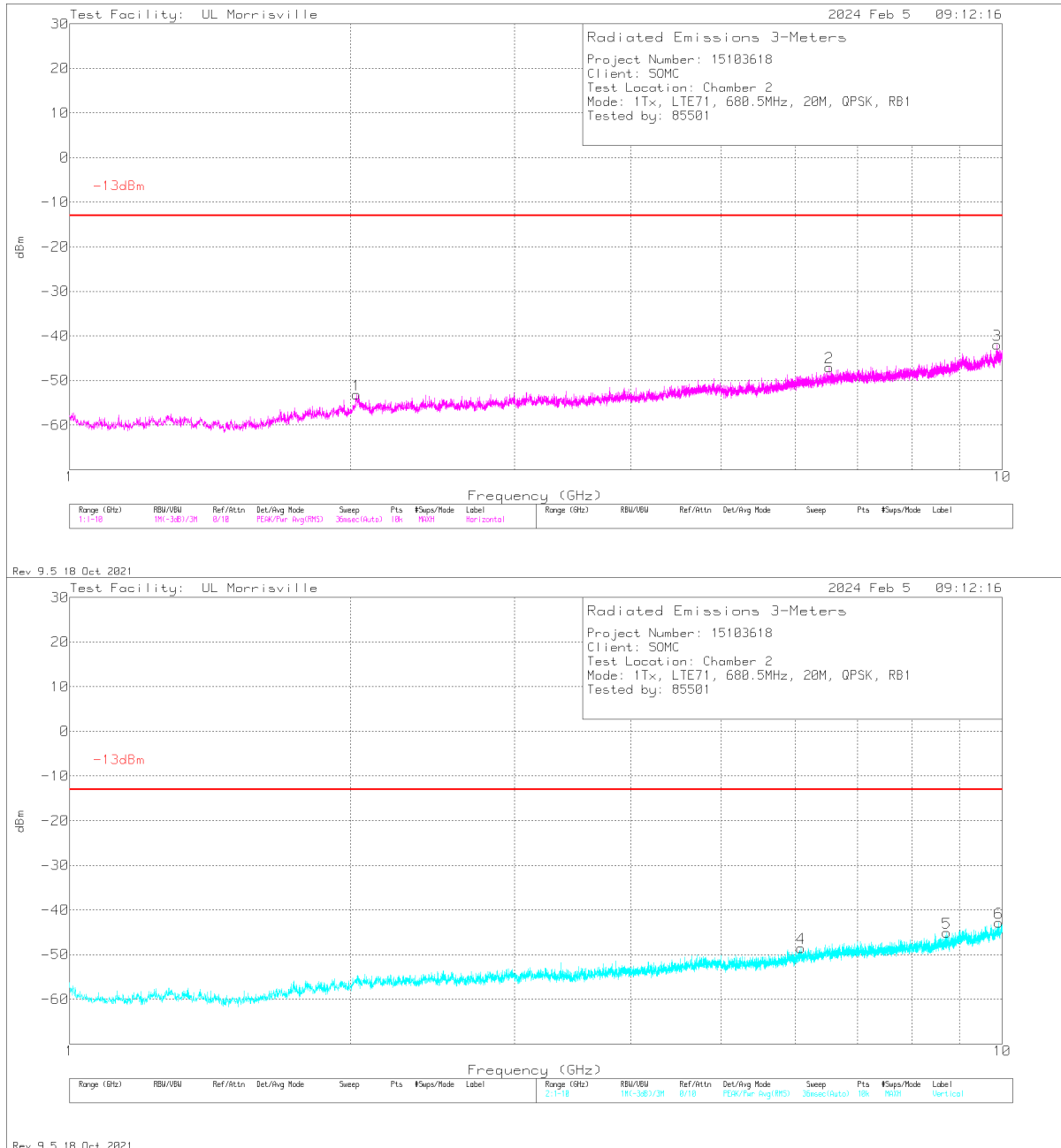


Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.3041	-63.52	Pk	32.1	-34	.3	11.8	-53.32	-13	-40.32	0-360	200	H
4	4.3408	-64.45	Pk	33.6	-31.4	.2	11.8	-50.25	-13	-37.25	0-360	101	V
2	6.1687	-66.46	Pk	35.5	-29.4	.5	11.8	-48.06	-13	-35.06	0-360	200	H
5	7.5016	-66.93	Pk	35.7	-27.5	.4	11.8	-46.53	-13	-33.53	0-360	200	V
6	9.8623	-67.32	Pk	37	-25.3	1	11.8	-42.82	-13	-29.82	0-360	200	V
3	9.9802	-67.83	Pk	37.2	-24.9	.9	11.8	-42.83	-13	-29.83	0-360	299	H

Pk - Peak detector

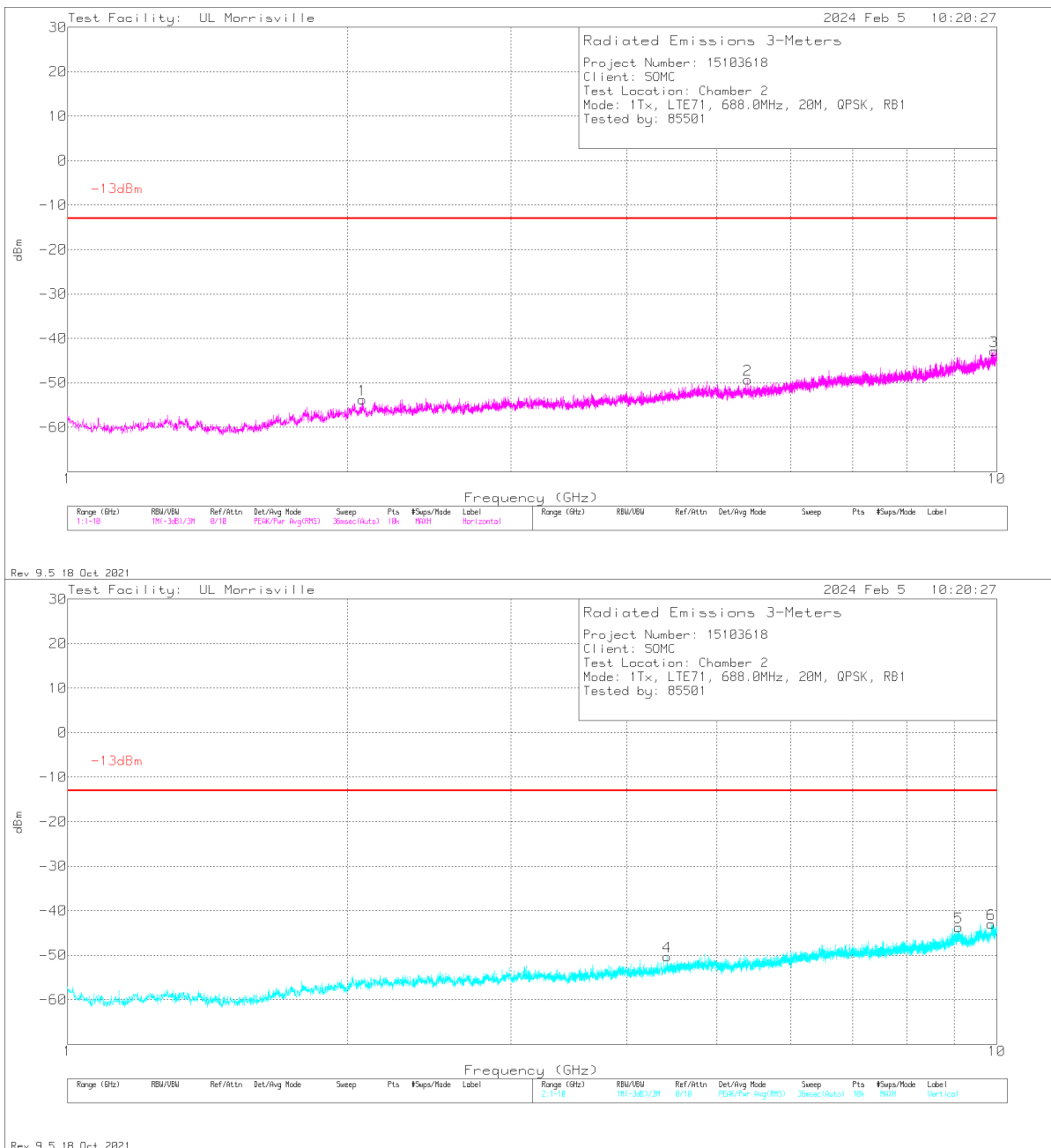
QPSK LTE BAND 71 20MHz, Mid Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.0305	-62.7	Pk	31.7	-34.3	.4	11.8	-53.1	-13	-40.1	0-360	101	H
4	6.0859	-67.2	Pk	35.5	-29	.4	11.8	-48.5	-13	-35.5	0-360	200	V
2	6.5242	-66.41	Pk	35.6	-28.4	.4	11.8	-47.01	-13	-34.01	0-360	300	H
5	8.7265	-66.86	Pk	35.9	-26.4	.5	11.8	-45.06	-13	-32.06	0-360	300	V
3	9.8722	-66.6	Pk	37	-25.3	1.1	11.8	-42	-13	-29	0-360	300	H
6	9.9136	-66.9	Pk	37.1	-25.5	.7	11.8	-42.8	-13	-29.8	0-360	101	V

Pk - Peak detector

QPSK LTE BAND 71 20MHz, High Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.0773	-63.6	Pk	31.9	-34.2	.3	11.8	-53.8	-13	-40.8	0-360	101	H
4	4.4164	-65.18	Pk	33.7	-31.3	.7	11.8	-50.28	-13	-37.28	0-360	300	V
2	5.3929	-65.63	Pk	34.4	-30.2	.3	11.8	-49.33	-13	-36.33	0-360	101	H
5	9.0991	-65.63	Pk	35.9	-26.3	.5	11.8	-43.73	-13	-30.73	0-360	200	V
6	9.8632	-67.57	Pk	37	-25.2	1	11.8	-42.97	-13	-29.97	0-360	200	V
3	9.9334	-66.98	Pk	37.2	-25.4	.5	11.8	-42.88	-13	-29.88	0-360	199	H

Pk - Peak detector

10.1.17. 5G NR n71

LIMITS

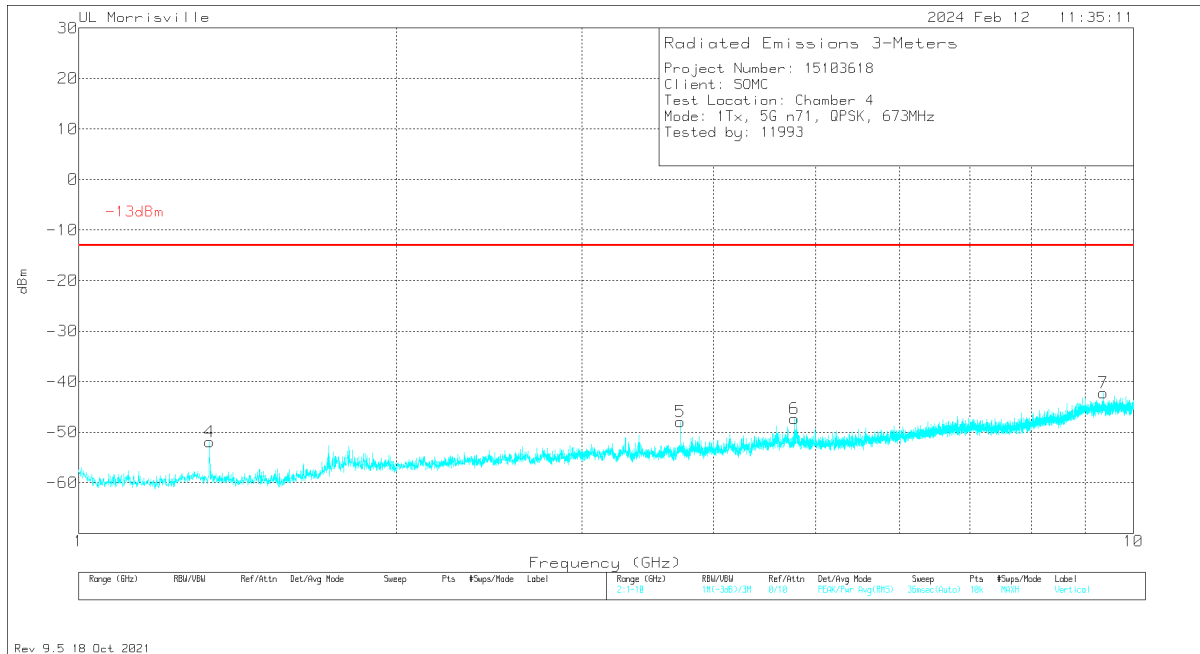
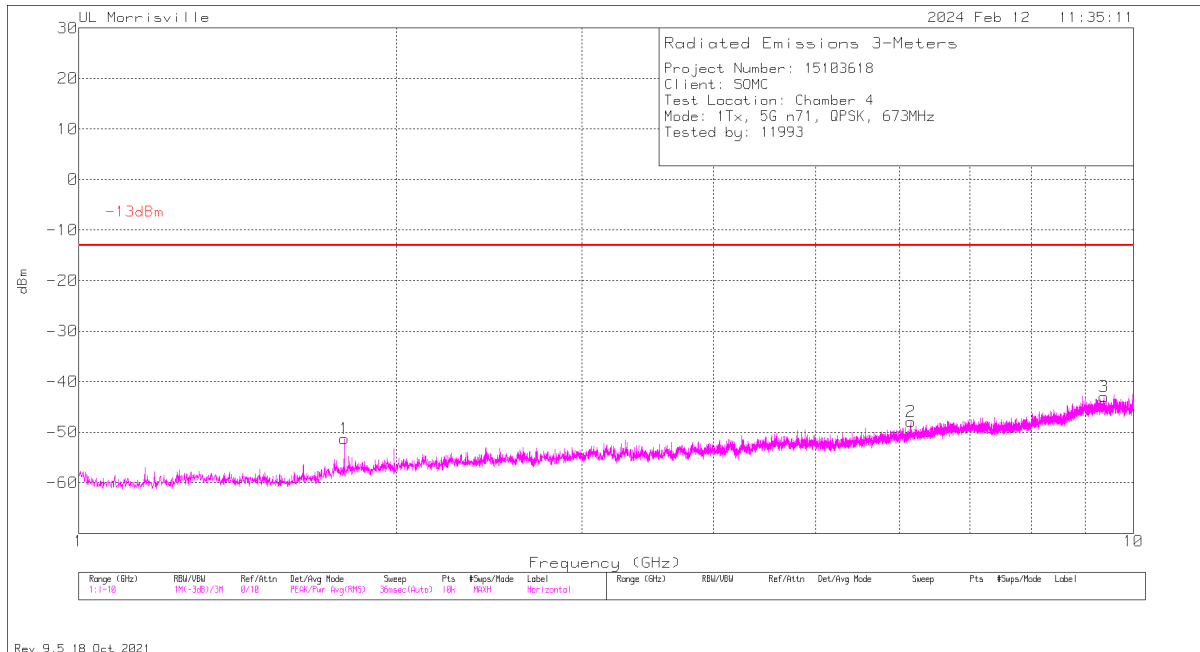
FCC: §27.53 (g)

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

EUT Serial Number: QV77008ELY

Main Antenna

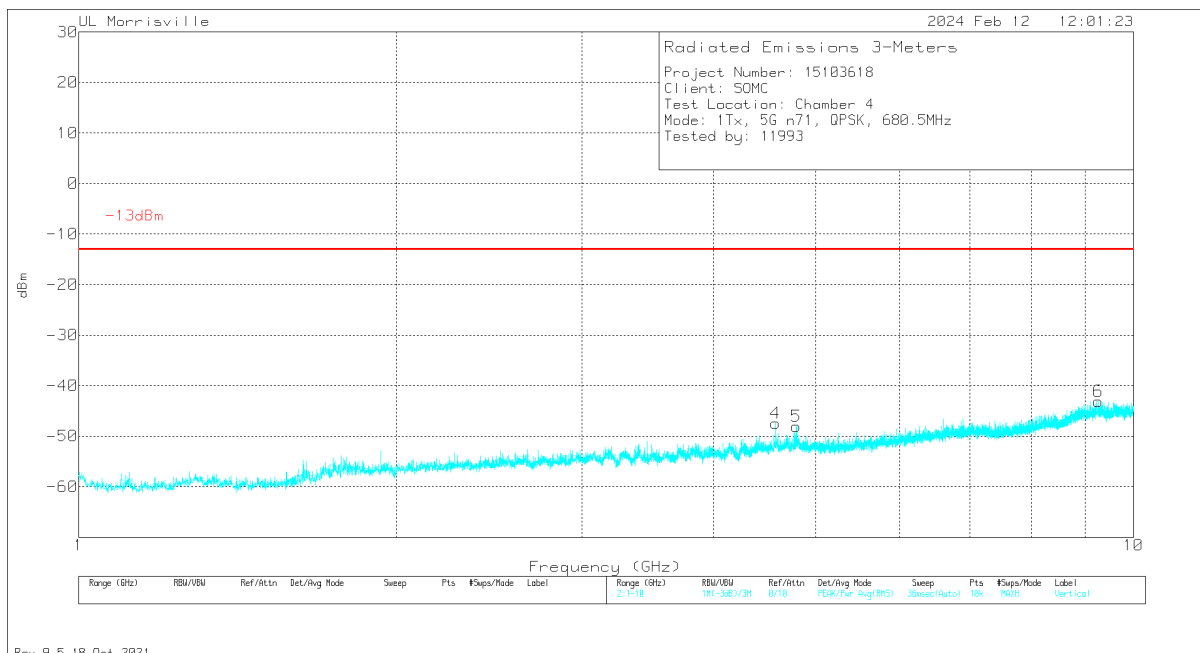
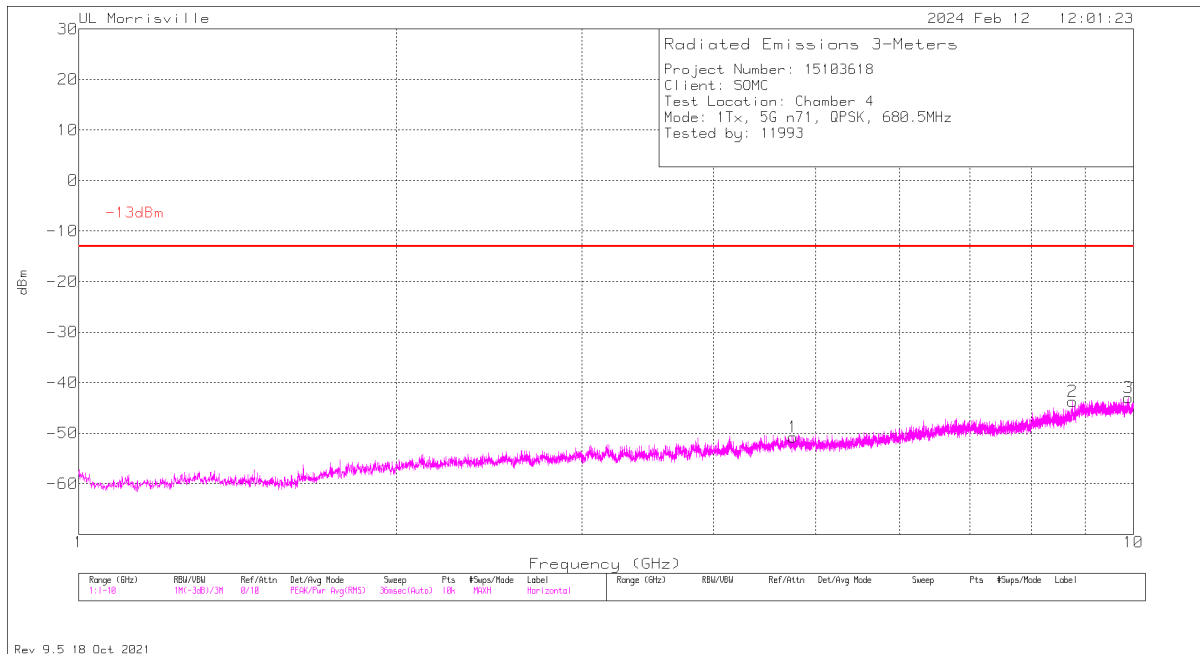
QPSK 5G NR N71 20MHz, Low Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.3303	-57.25	Pk	29	-35.9	.4	11.8	-51.95	-13	-38.95	0-360	300	V
1	1.7857	-57.07	Pk	29.9	-36.3	.4	11.8	-51.27	-13	-38.27	0-360	200	H
5	3.7198	-59.74	Pk	33.1	-33.8	.7	11.8	-47.94	-13	-34.94	0-360	200	V
6	4.7674	-61.36	Pk	34	-32	.2	11.8	-47.36	-13	-34.36	0-360	200	V
2	6.1534	-65.93	Pk	35.3	-29.6	.5	11.8	-47.93	-13	-34.93	0-360	200	H
7	9.3637	-65.43	Pk	36.5	-25.6	.5	11.8	-42.23	-13	-29.23	0-360	200	V
3	9.3808	-66.07	Pk	36.6	-25.7	.4	11.8	-42.97	-13	-29.97	0-360	100	H

Pk - Peak detector

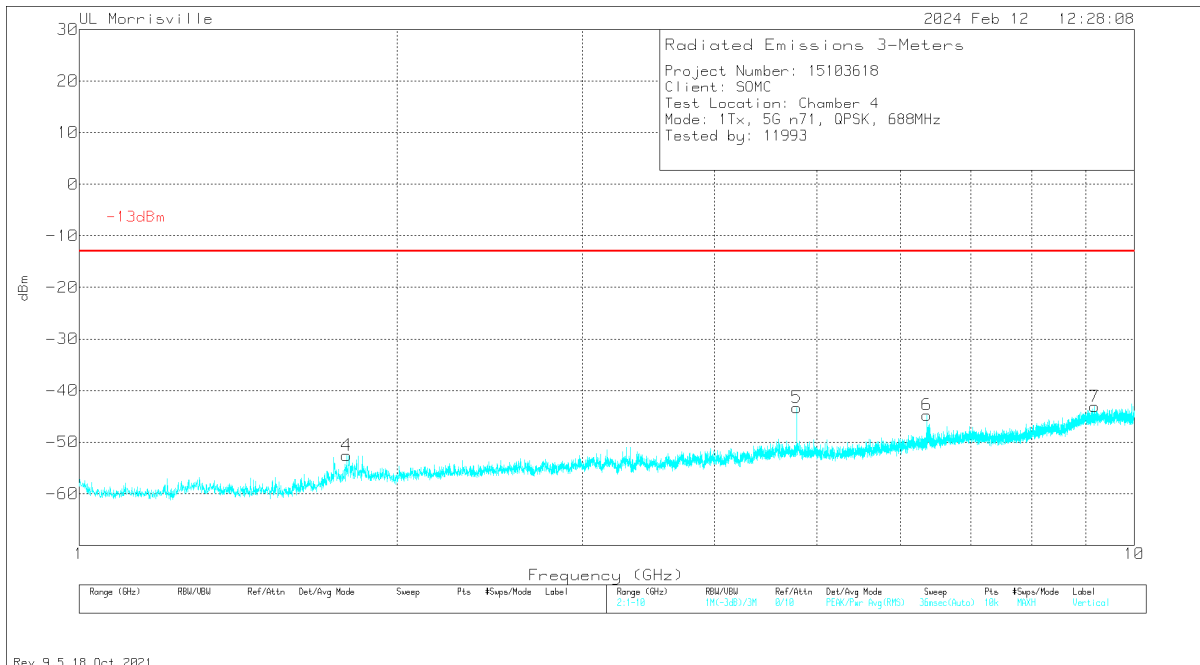
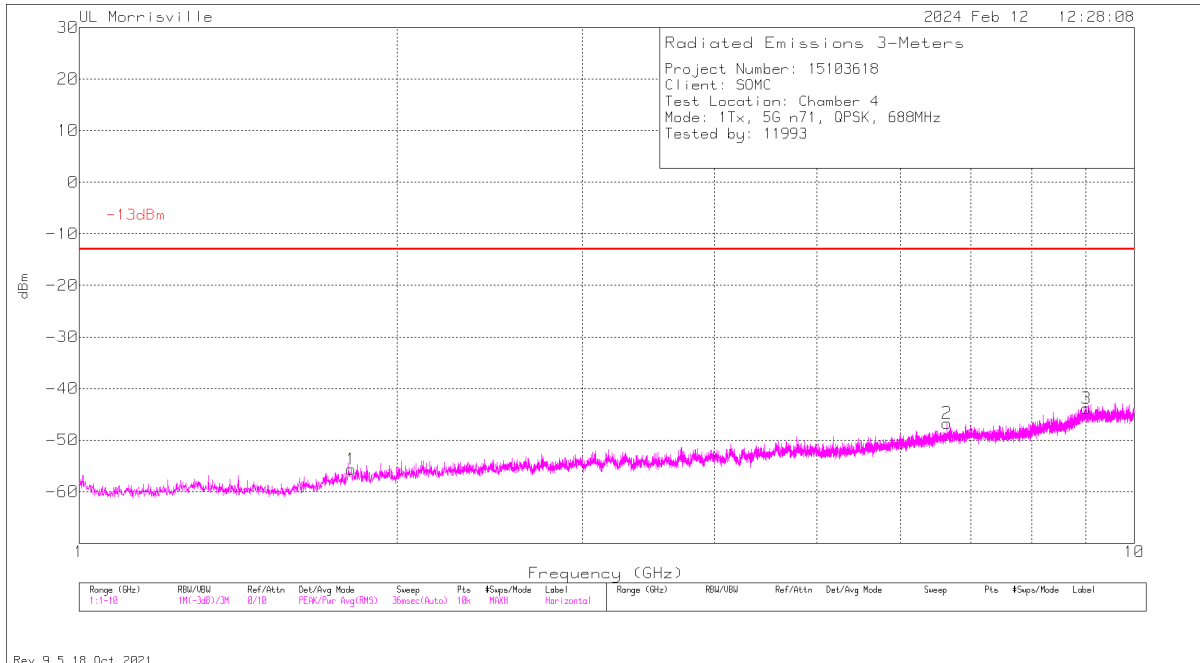
QPSK 5G NR N71 20MHz, Mid Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	4.5784	-61.66	Pk	34	-32.2	.6	11.8	-47.46	-13	-34.46	0-360	200	V
1	4.7593	-64.95	Pk	34	-31.8	.2	11.8	-50.75	-13	-37.75	0-360	100	H
5	4.7926	-62.37	Pk	34.1	-31.9	.3	11.8	-48.07	-13	-35.07	0-360	200	V
2	8.7607	-65.59	Pk	36	-26.3	.4	11.8	-43.69	-13	-30.69	0-360	100	H
6	9.2674	-65.58	Pk	36.4	-26.1	.4	11.8	-43.08	-13	-30.08	0-360	300	V
3	9.8902	-66.62	Pk	37	-26.2	1	11.8	-43.02	-13	-30.02	0-360	100	H

Pk - Peak detector

QPSK 5G NR N71 20MHz, High Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.792	-58.39	Pk	29.9	-36.3	.4	11.8	-52.59	-13	-39.59	0-360	300	V
1	1.8109	-61.74	Pk	30.1	-36.1	.3	11.8	-55.64	-13	-42.64	0-360	100	H
5	4.7872	-57.6	Pk	34.1	-31.8	.2	11.8	-43.3	-13	-30.3	0-360	200	V
6	6.3586	-62.84	Pk	35.4	-29.5	.4	11.8	-44.74	-13	-31.74	0-360	200	V
2	6.6439	-65.74	Pk	35.5	-28.8	.5	11.8	-46.74	-13	-33.74	0-360	100	H
3	9.0082	-66.14	Pk	36.2	-26.1	.4	11.8	-43.84	-13	-30.84	0-360	200	H
7	9.1684	-65.42	Pk	36.3	-26.2	.4	11.8	-43.12	-13	-30.12	0-360	300	V

Pk - Peak detector

10.1.18. 5G NR n77 (FCC Part 27 3450-3550MHz)

LIMITS

FCC: §27.53

Emission limits

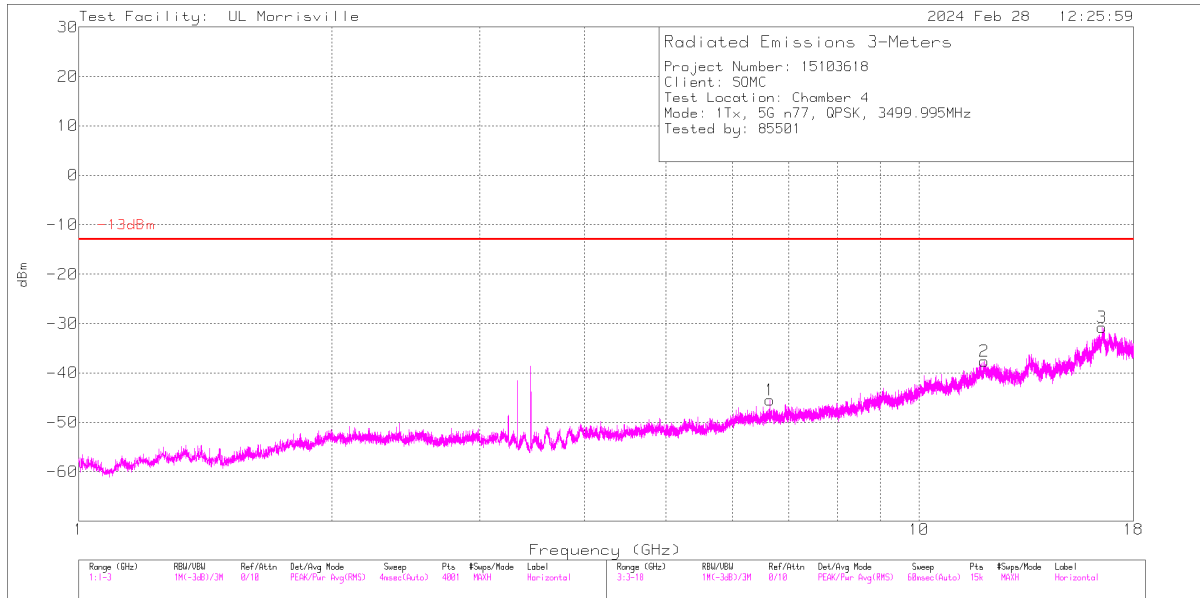
(n) 3.45 GHz Service. The following emission limits apply to stations transmitting in the 3450-3550 MHz band:

(2) For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

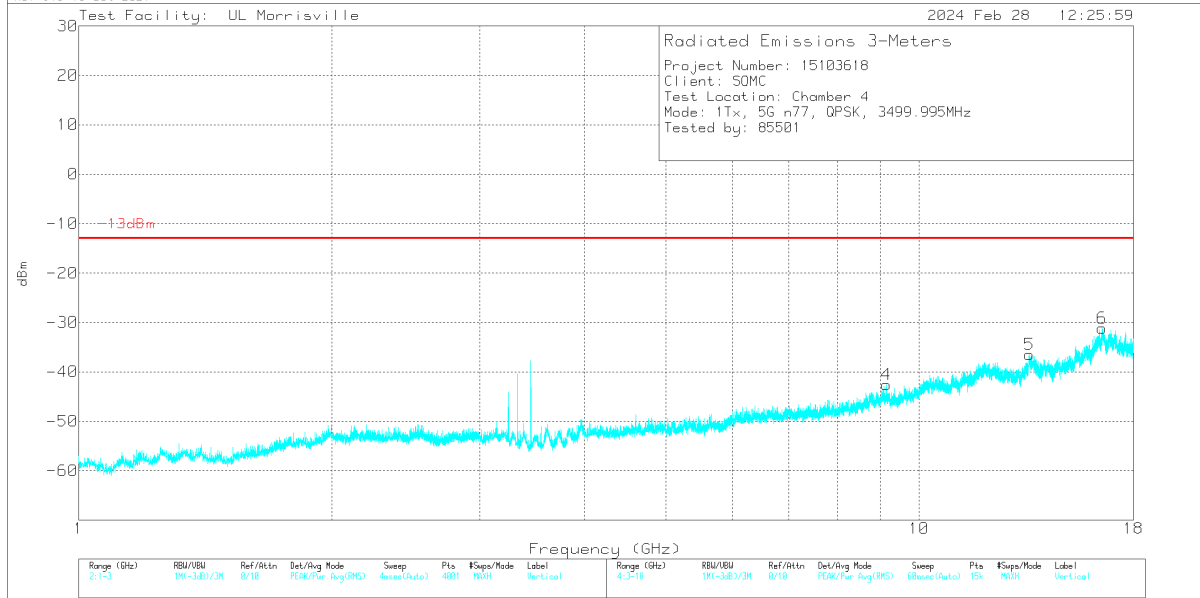
EUT Serial Number: QV77008ELY

Main Antenna

QPSK 5G NR N77 (100MHz, Mid Channel)



Rev 9.5 18 Oct 2021



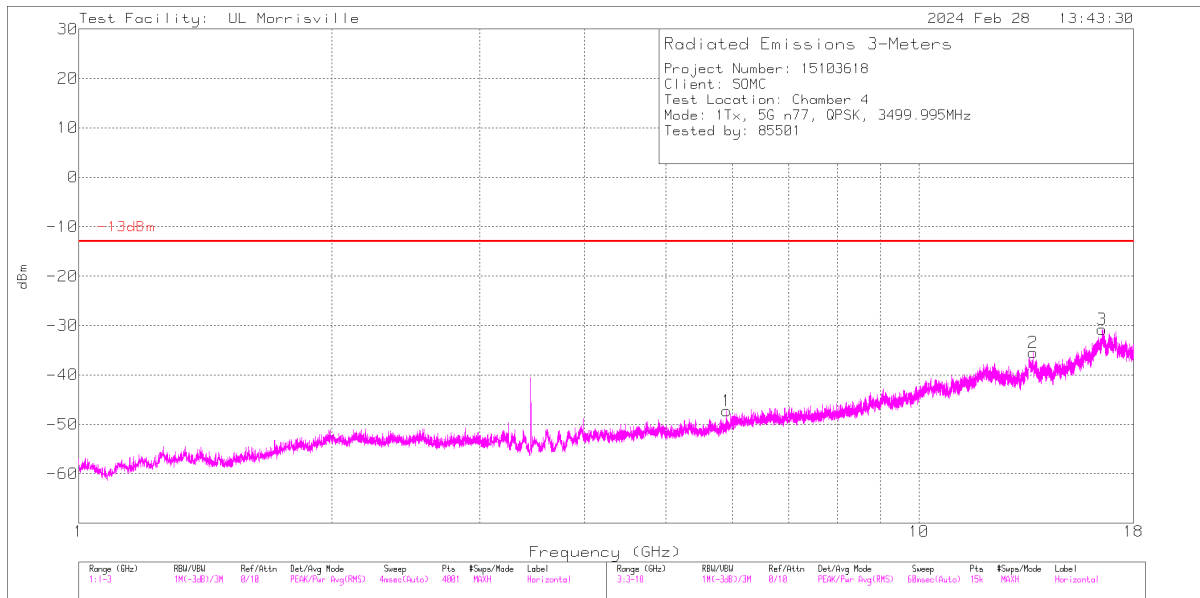
Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.646	-66.28	Pk	35.6	-27.1	11.8	.5	-45.48	-13	-32.48	0-360	101	H
4	9.148	-66.31	Pk	35.9	-24.9	11.8	.9	-42.61	-13	-29.61	0-360	200	V
2	11.961	-66.27	Pk	38.9	-23.2	11.8	1.2	-37.57	-13	-24.57	0-360	101	H
5	13.523	-65.47	Pk	38.9	-23	11.8	1.3	-36.47	-13	-23.47	0-360	101	V
6	16.517	-66.68	Pk	40.6	-18.3	11.8	1.4	-31.18	-13	-18.18	0-360	200	V
3	16.524	-66.39	Pk	40.6	-18.2	11.8	1.4	-30.79	-13	-17.79	0-360	200	H

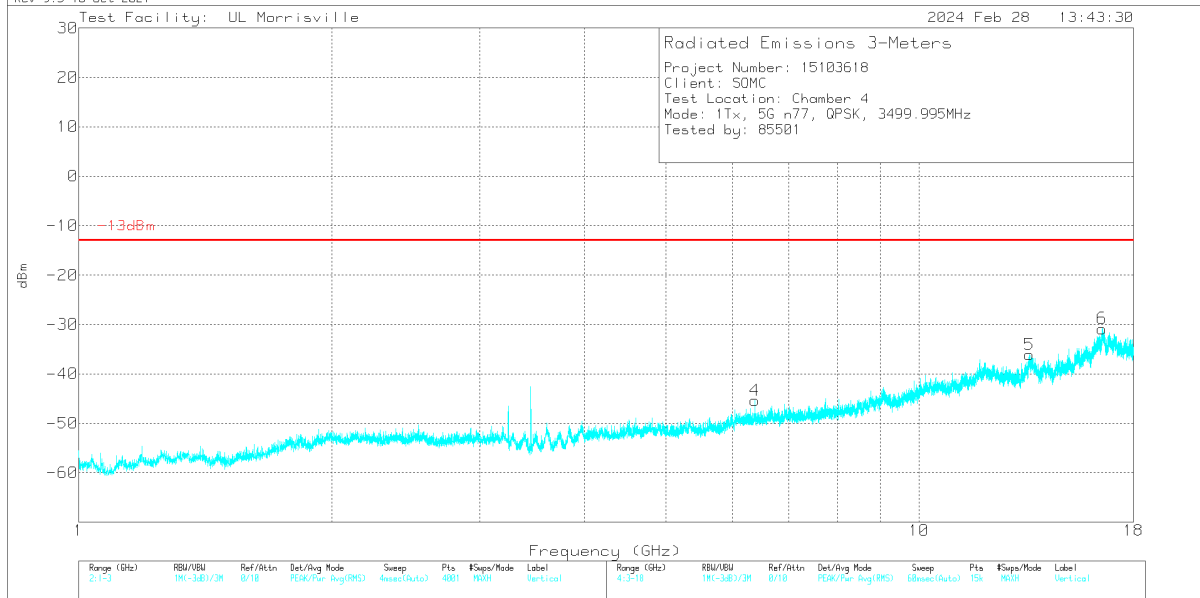
Pk - Peak detector

Sub-UHB Antenna

QPSK 5G NR N77 (100MHz, Mid Channel)



Rev 9.5 18 Oct 2021



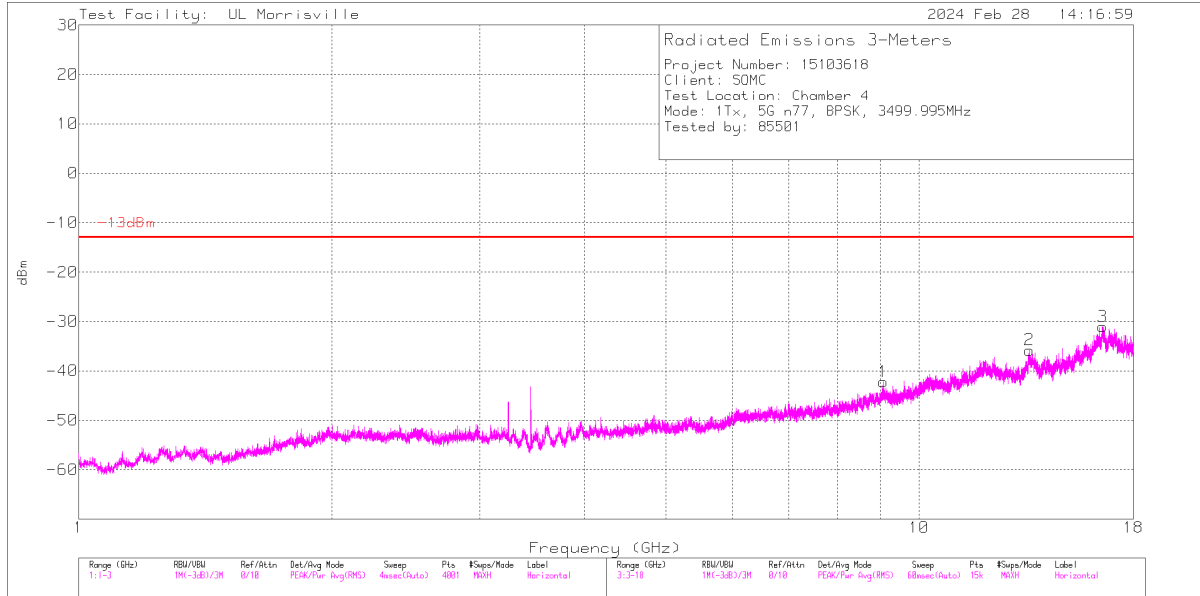
Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.9	-65.97	Pk	35	-28.6	11.8	.5	-47.27	-13	-34.27	0-360	101	H
4	6.381	-65.77	Pk	35.7	-27.6	11.8	.5	-45.37	-13	-32.37	0-360	101	V
5	13.538	-65.19	Pk	38.9	-23	11.8	1.4	-36.09	-13	-23.09	0-360	101	V
2	13.668	-64.31	Pk	38.9	-23.2	11.8	1.4	-35.41	-13	-22.41	0-360	300	H
6	16.525	-66.53	Pk	40.7	-18.2	11.8	1.4	-30.83	-13	-17.83	0-360	200	V
3	16.528	-66.34	Pk	40.7	-18.3	11.8	1.4	-30.74	-13	-17.74	0-360	101	H

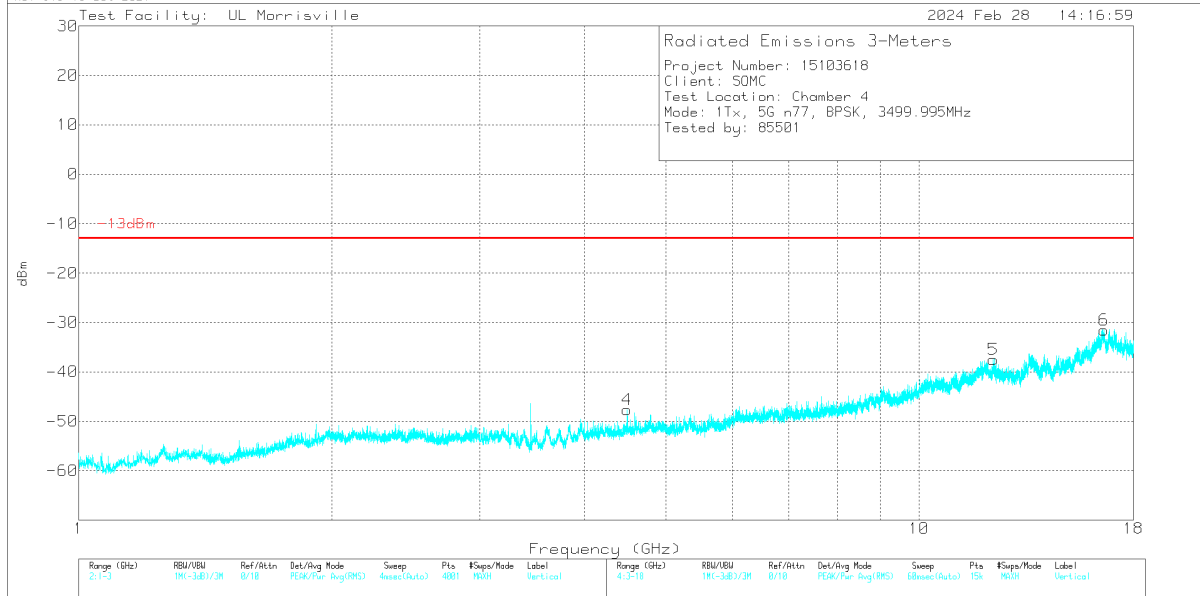
Pk - Peak detector

Cell 3rd Antenna

QPSK 5G NR N77 (100MHz, Mid Channel)



Rev 9.5 18 Oct 2021



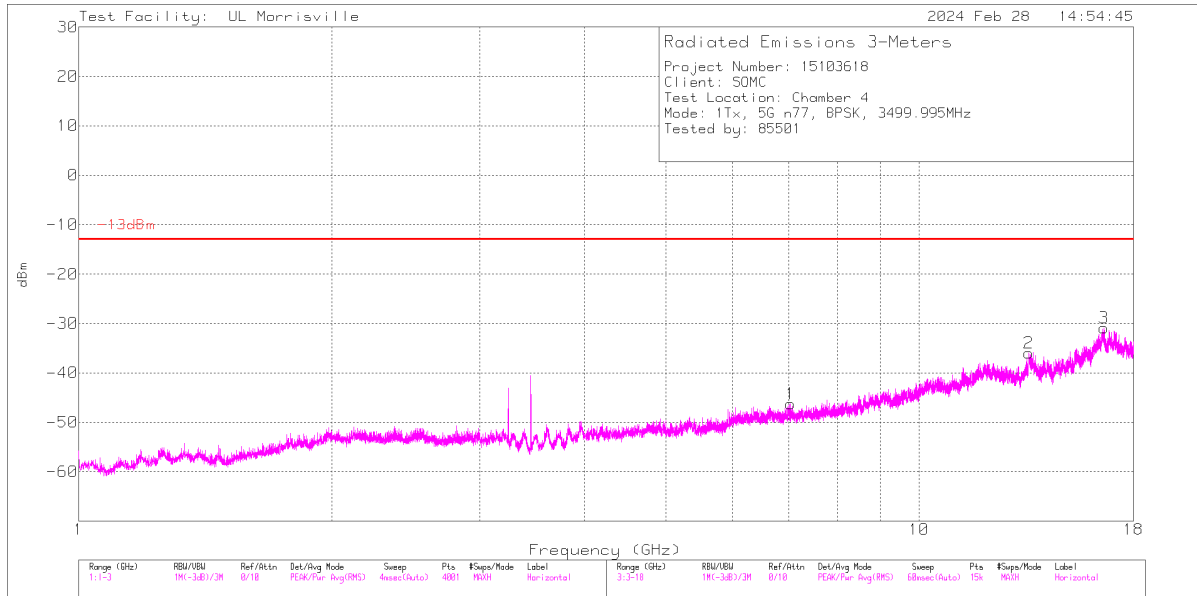
Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	4.497	-63.21	Pk	33.9	-30.7	11.8	.6	-47.61	-13	-34.61	0-360	101	V
1	9.071	-65.84	Pk	35.9	-25.1	11.8	1	-42.24	-13	-29.24	0-360	101	H
5	12.261	-66.75	Pk	38.8	-22.9	11.8	1.5	-37.55	-13	-24.55	0-360	299	V
2	13.534	-64.88	Pk	38.9	-23	11.8	1.4	-35.78	-13	-22.78	0-360	101	H
3	16.555	-66.53	Pk	40.7	-18.2	11.8	1.2	-31.03	-13	-18.03	0-360	101	H
6	16.599	-67.1	Pk	40.8	-18.1	11.8	1.1	-31.5	-13	-18.5	0-360	101	V

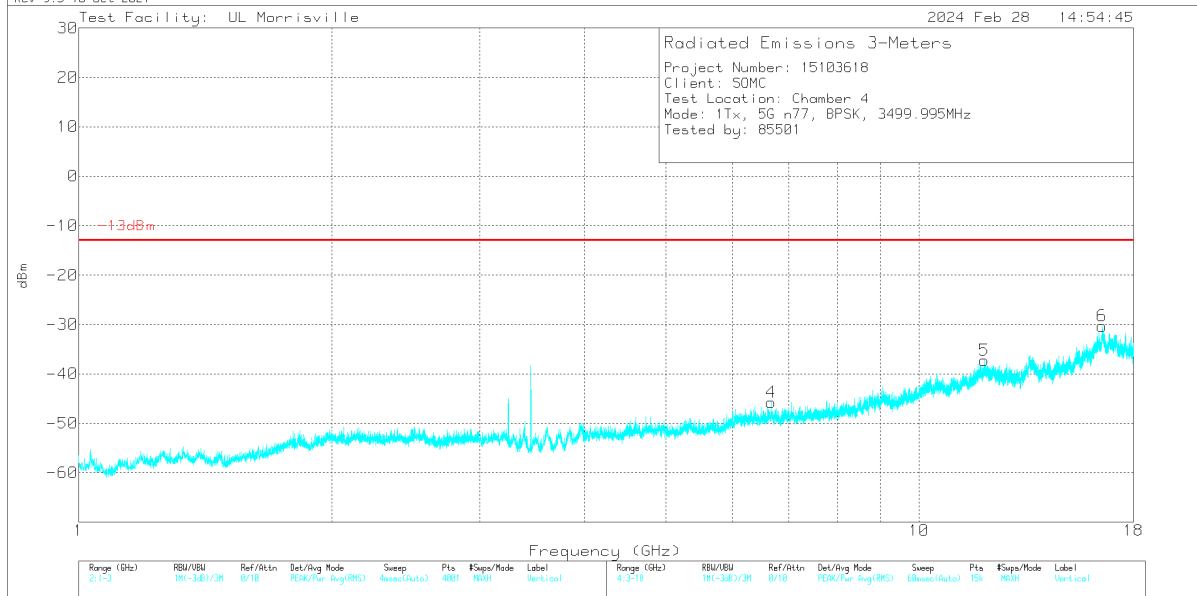
Pk - Peak detector

Cell 4th Antenna

QPSK 5G NR N77 (100MHz, Mid Channel)



Rev 9.5 18 Oct 2021



Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	6.674	-66.49	Pk	35.6	-27.2	11.8	.6	-45.69	-13	-32.69	0-360	200	V
1	7.036	-67.35	Pk	35.6	-26.8	11.8	.5	-46.25	-13	-33.25	0-360	199	H
5	11.963	-66.05	Pk	38.9	-23.1	11.8	1.2	-37.25	-13	-24.25	0-360	200	V
2	13.505	-65.08	Pk	38.9	-22.8	11.8	1.2	-35.98	-13	-22.98	0-360	299	H
6	16.52	-66.12	Pk	40.6	-18.1	11.8	1.5	-30.32	-13	-17.32	0-360	101	V
3	16.598	-66.64	Pk	40.8	-18	11.8	1.1	-30.94	-13	-17.94	0-360	199	H

Pk - Peak detector

10.1.19. 5G NR n77 (FCC Part 27 3700-3980MHz)

LIMITS

FCC: §27.53

Emission limits

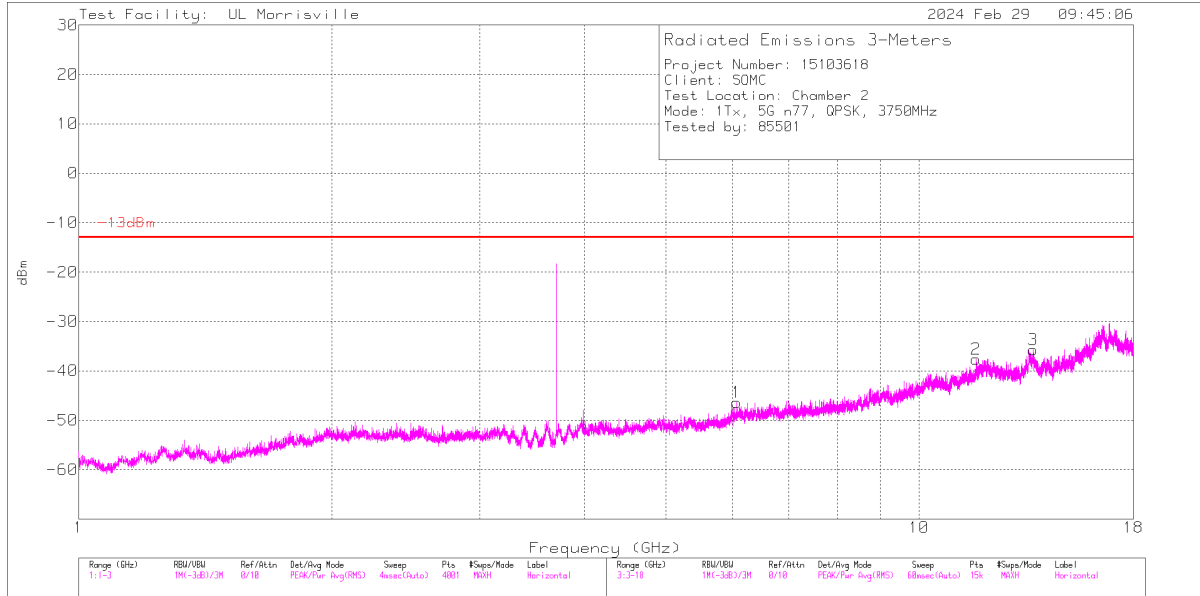
(1) 3.7 GHz Service. The following emission limits apply to stations transmitting in the 3700-3980 MHz band:

(2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

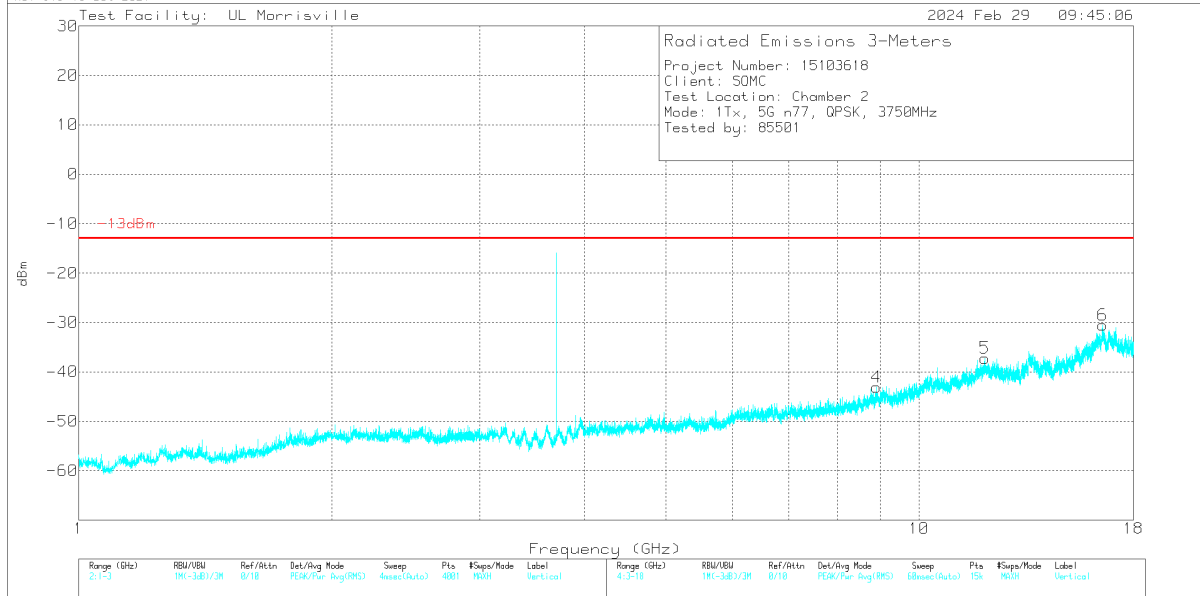
EUT Serial Number: QV77008ELY

Main Antenna

QPSK 5G NR N77 (100MHz, Low Channel)



Rev 9.5 18 Oct 2021

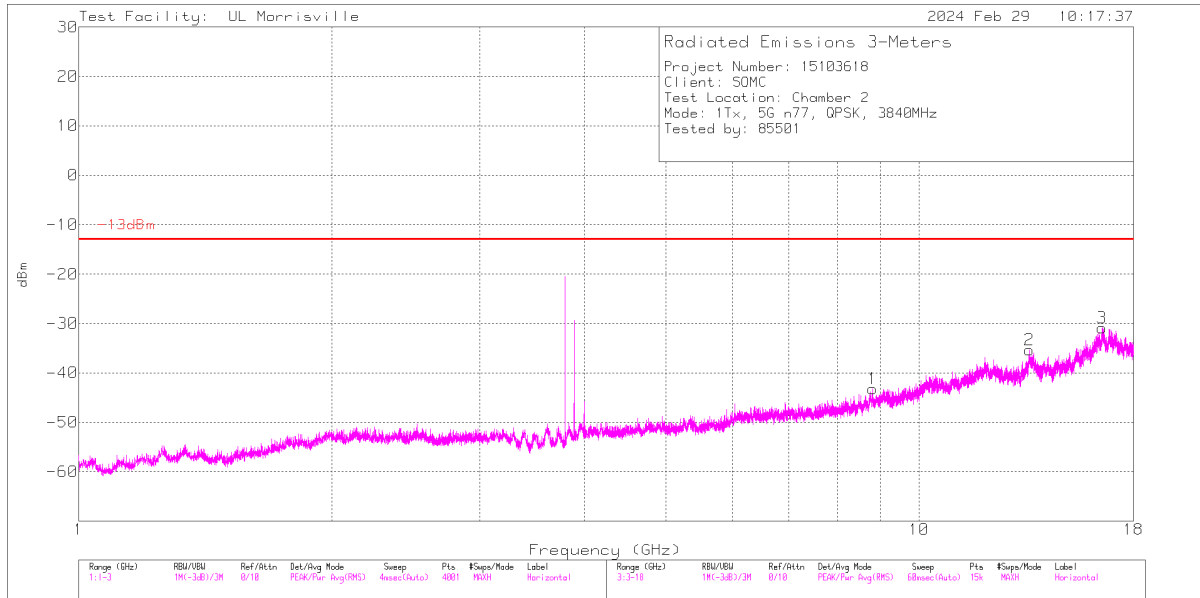


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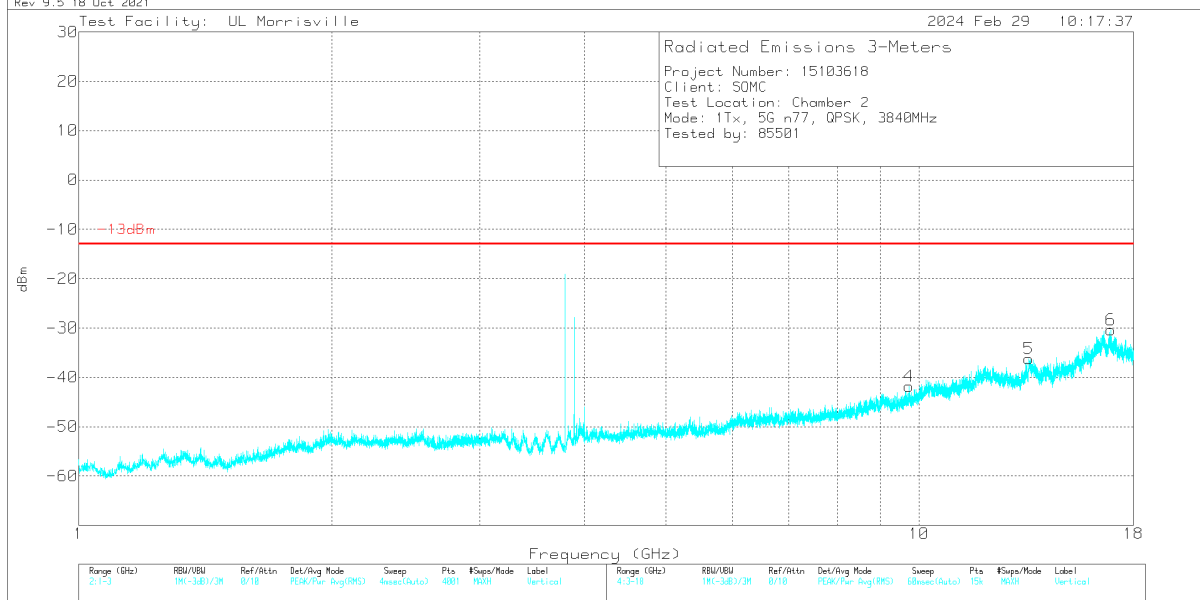
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.07	-66.48	Pk	35.4	-27.6	11.8	.5	-46.38	-13	-33.38	0-360	101	H
4	8.901	-65.89	Pk	35.9	-26.2	11.8	1.3	-43.09	-13	-30.09	0-360	101	V
2	11.699	-65.55	Pk	38.5	-23.3	11.8	.9	-37.65	-13	-24.65	0-360	299	H
5	11.974	-66.48	Pk	38.9	-22.6	11.8	1.2	-37.18	-13	-24.18	0-360	101	V
3	13.678	-64.83	Pk	38.9	-23.1	11.8	1.5	-35.73	-13	-22.73	0-360	299	H
6	16.541	-66.52	Pk	40.7	-17.8	11.8	1.3	-30.52	-13	-17.52	0-360	199	V

Pk - Peak detector

QPSK 5G NR N77 (100MHz, Mid Channel)



Rev 9.5 18 Oct 2021

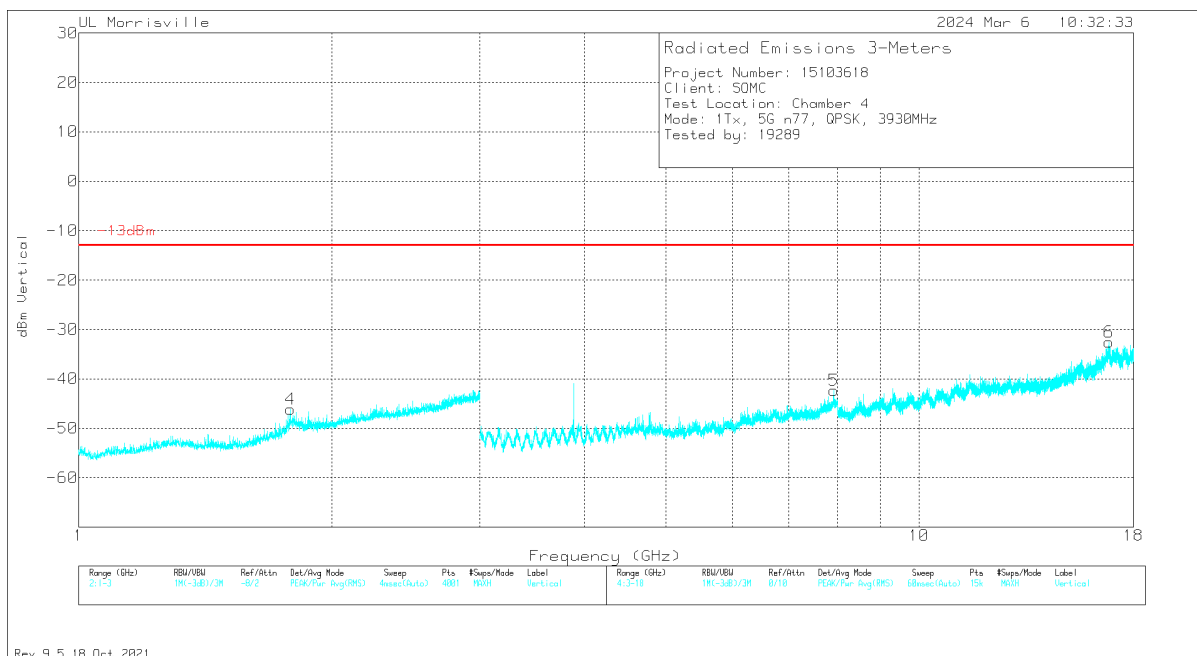
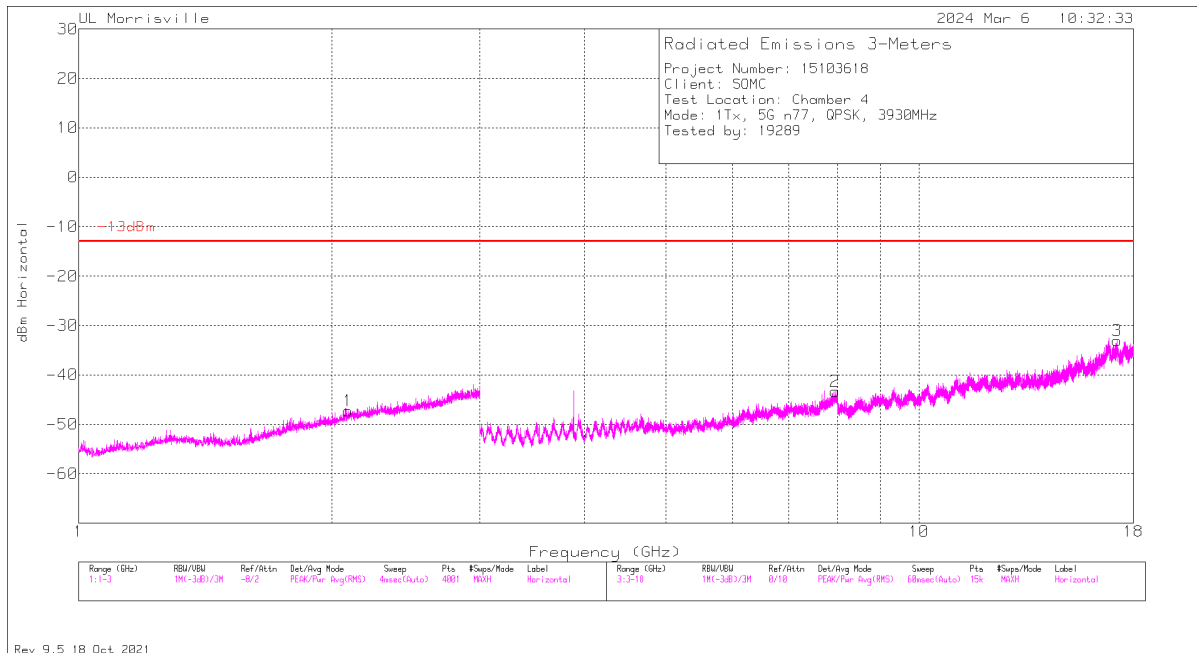


Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	8.806	-65.96	Pk	35.9	-25.9	11.8	1	-43.16	-13	-30.16	0-360	200	H
4	9.727	-66.97	Pk	36.8	-24.3	11.8	.9	-41.77	-13	-28.77	0-360	101	V
5	13.511	-65.31	Pk	38.9	-22.8	11.8	1.2	-36.21	-13	-23.21	0-360	101	V
2	13.539	-64.31	Pk	38.9	-23.1	11.8	1.4	-35.31	-13	-22.31	0-360	200	H
3	16.518	-66.35	Pk	40.6	-18.3	11.8	1.4	-30.85	-13	-17.85	0-360	200	H
6	16.907	-65.23	Pk	41.3	-19.6	11.8	1.3	-30.43	-13	-17.43	0-360	300	V

Pk - Peak detector

QPSK 5G NR N77 (100MHz, High Channel)

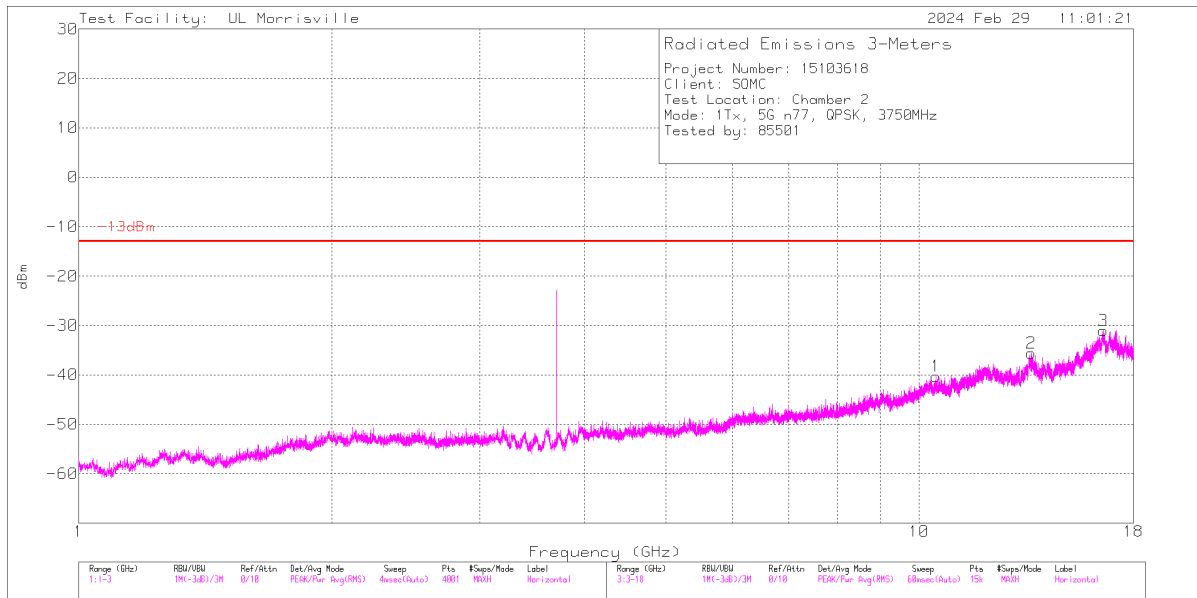


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.7855	-74.13	PK	29.9	-14.1	11.8	.4	-46.13	-13	-33.13	0-360	200	V
1	2.093	-77.55	PK	31.5	-13.4	11.8	.4	-47.25	-13	-34.25	0-360	100	H
5	7.915	-63.37	PK	35.8	-27.1	11.8	.6	-42.27	-13	-29.27	0-360	300	V
2	7.95	-64.49	PK	35.8	-27.2	11.8	.7	-43.39	-13	-30.39	0-360	100	H
6	16.824	-68.09	PK	41.9	-19	11.8	.9	-32.49	-13	-19.49	0-360	300	V
3	17.208	-67.99	PK	41.3	-19.2	11.8	1	-33.09	-13	-20.09	0-360	200	H

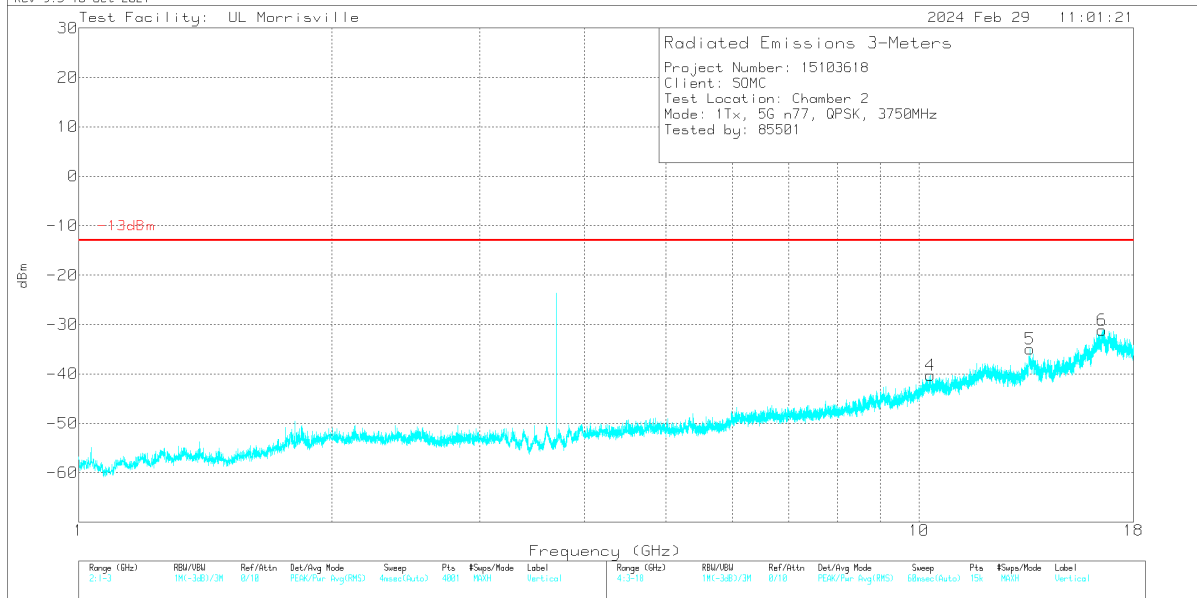
Pk - Peak detector

Sub-UHB Antenna

QPSK 5G NR N77 (100MHz, Low Channel)



Rev 9.5 18 Oct 2021

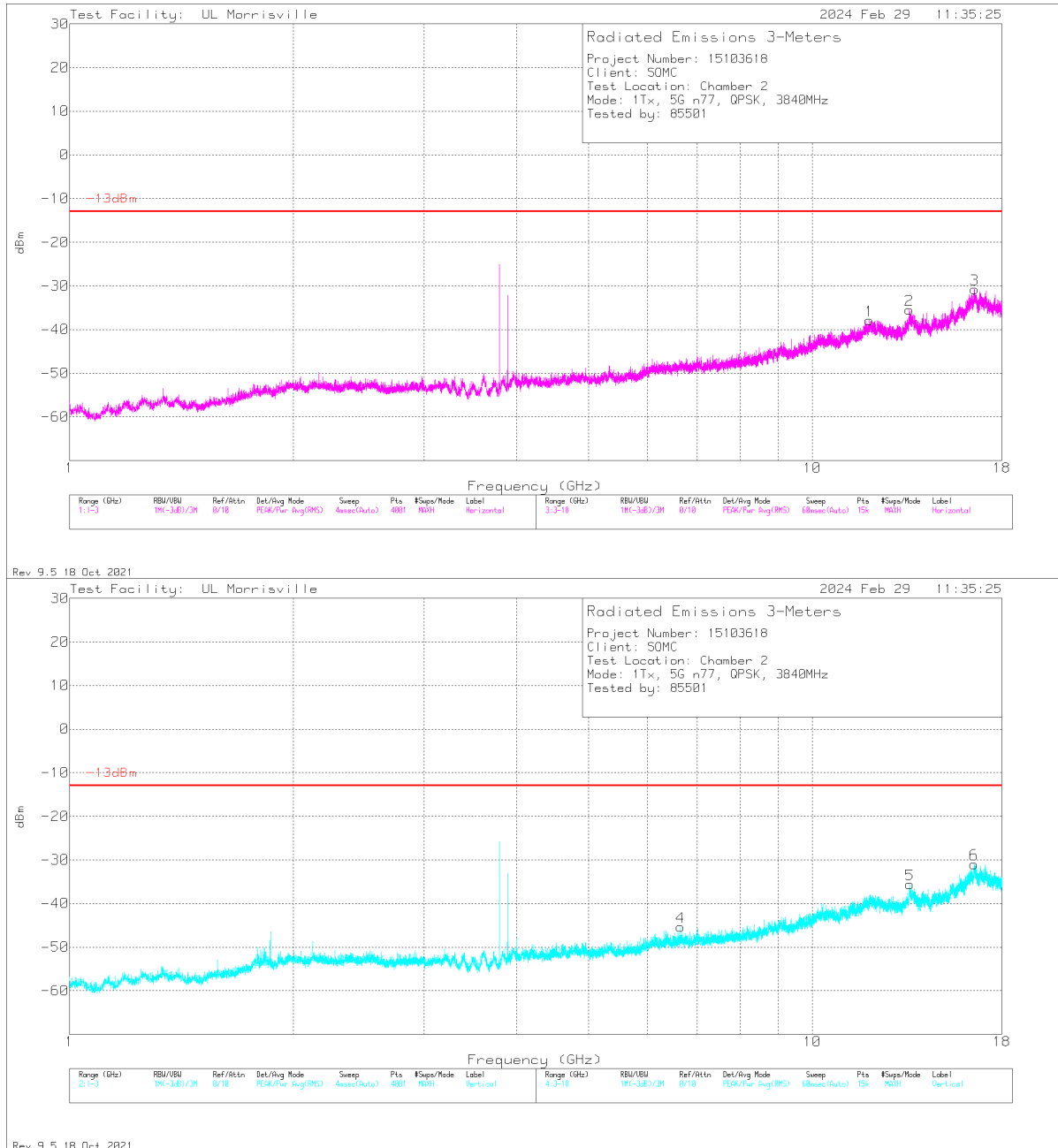


Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	10.319	-67.44	Pk	37.6	-23.2	11.8	.9	-40.34	-13	-27.34	0-360	101	V
1	10.474	-66.82	Pk	37.7	-23.8	11.8	.8	-40.32	-13	-27.32	0-360	200	H
5	13.552	-63.67	Pk	38.9	-23.4	11.8	1.4	-34.97	-13	-21.97	0-360	101	V
2	13.604	-63.7	Pk	38.9	-23.6	11.8	1	-35.6	-13	-22.6	0-360	300	H
6	16.517	-66.7	Pk	40.6	-18.3	11.8	1.4	-31.2	-13	-18.2	0-360	199	V
3	16.568	-66.31	Pk	40.7	-18.3	11.8	1.1	-31.01	-13	-18.01	0-360	300	H

Pk - Peak detector

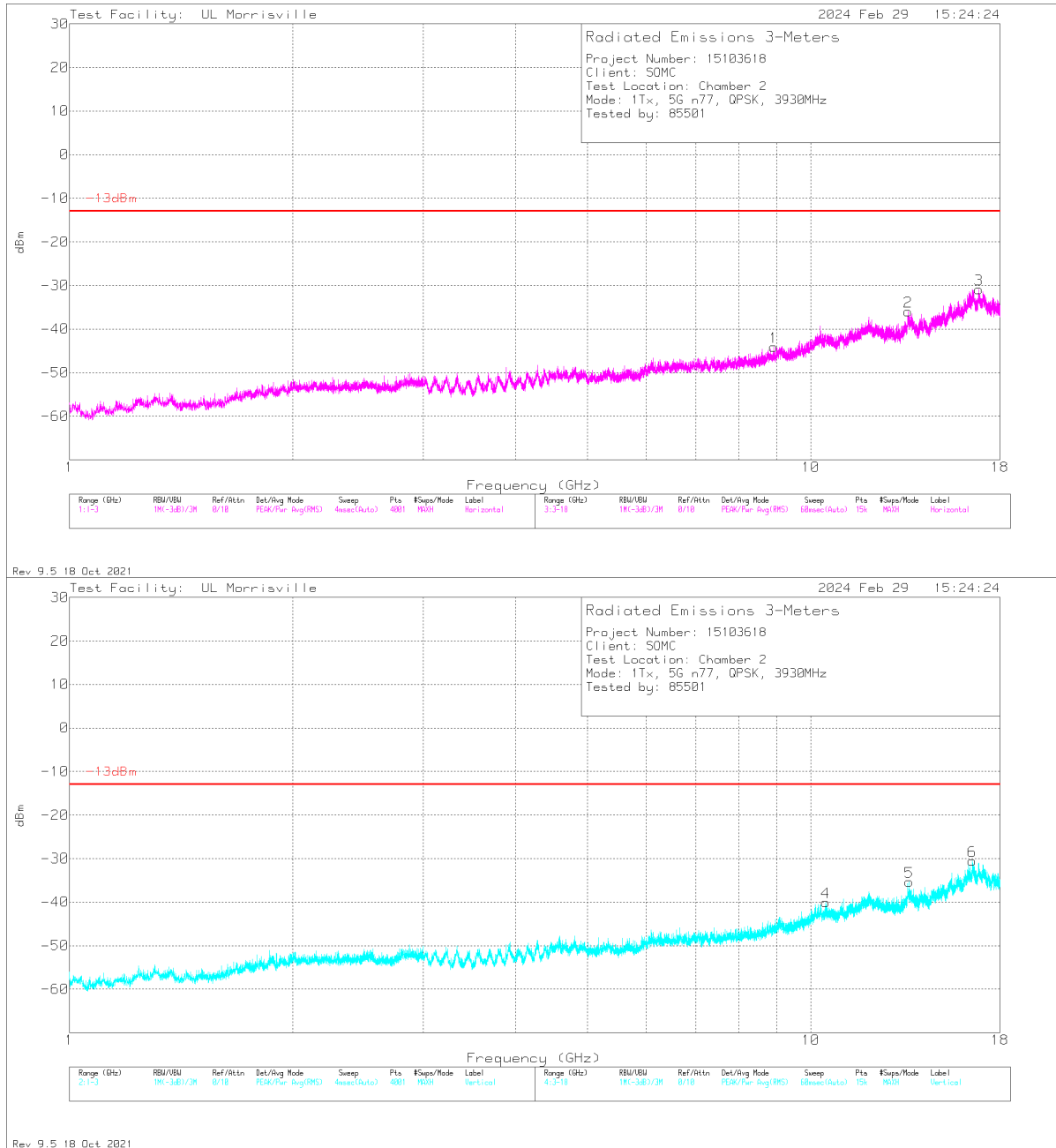
QPSK 5G NR N77 (100MHz, Mid Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	6.643	-66.22	Pk	35.6	-27.1	11.8	.5	-45.42	-13	-32.42	0-360	101	V
1	11.948	-66.17	Pk	38.9	-23.5	11.8	1.1	-37.87	-13	-24.87	0-360	101	H
2	13.515	-64.66	Pk	38.9	-22.8	11.8	1.3	-35.46	-13	-22.46	0-360	101	H
5	13.53	-64.61	Pk	38.9	-23.1	11.8	1.4	-35.61	-13	-22.61	0-360	300	V
6	16.523	-66.66	Pk	40.6	-18.2	11.8	1.5	-30.96	-13	-17.96	0-360	300	V
3	16.547	-66.36	Pk	40.7	-18.1	11.8	1.2	-30.76	-13	-17.76	0-360	199	H

Pk - Peak detector

QPSK 5G NR N77 (100MHz, High Channel)

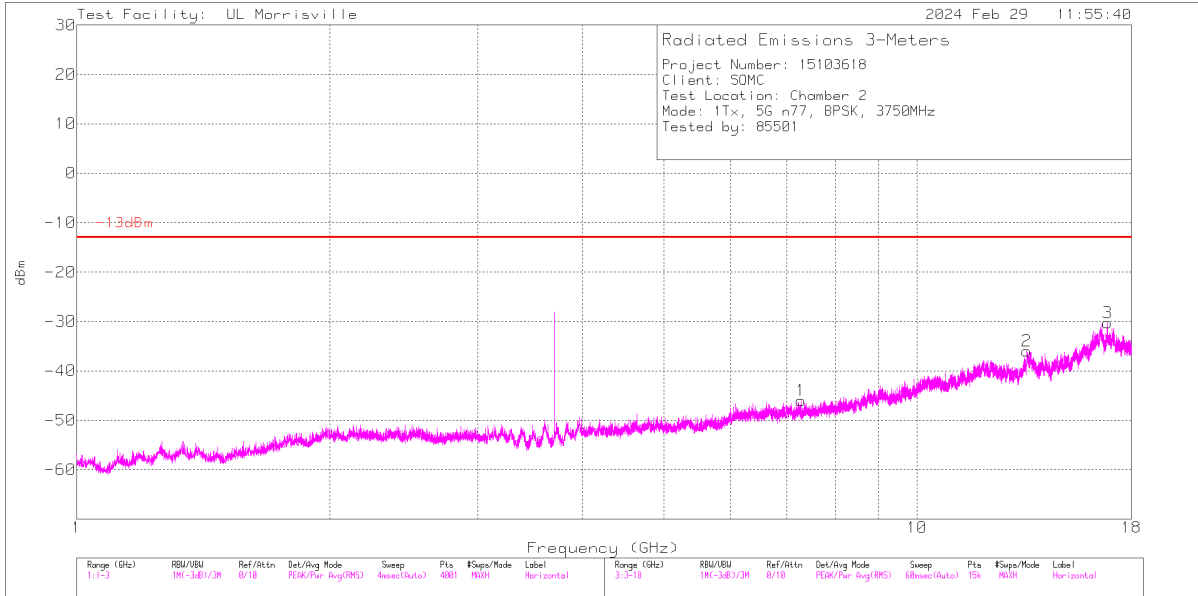


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	8.923	-65.97	Pk	35.9	-26.4	11.8	.6	-44.07	-13	-31.07	0-360	101	H
4	10.481	-66.34	Pk	37.7	-24	11.8	.8	-40.04	-13	-27.04	0-360	300	V
2	13.54	-64.33	Pk	38.9	-23.1	11.8	.8	-35.93	-13	-22.93	0-360	200	H
5	13.581	-62.97	Pk	38.9	-23.7	11.8	.6	-35.37	-13	-22.37	0-360	300	V
6	16.529	-66.06	Pk	40.7	-18.3	11.8	1.3	-30.56	-13	-17.56	0-360	300	V
3	16.861	-67.56	Pk	41.2	-18	11.8	1.7	-30.86	-13	-17.86	0-360	101	H

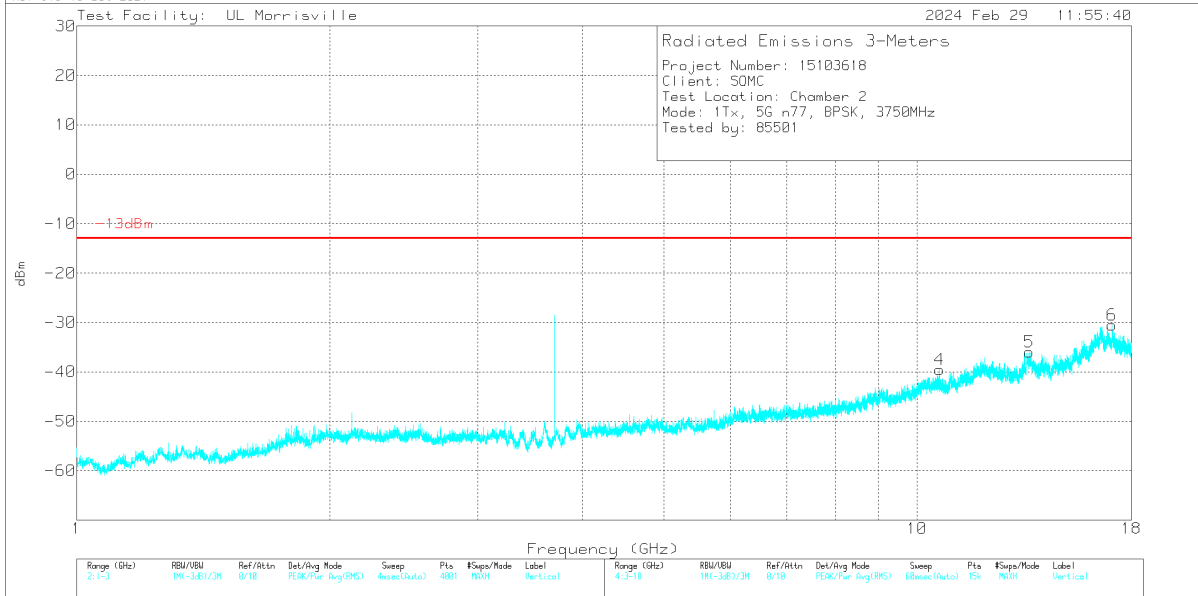
Pk - Peak detector

Cell 3rd Antenna

QPSK 5G NR N77 (100MHz, Low Channel)



Rev 9.5 18 Oct 2021

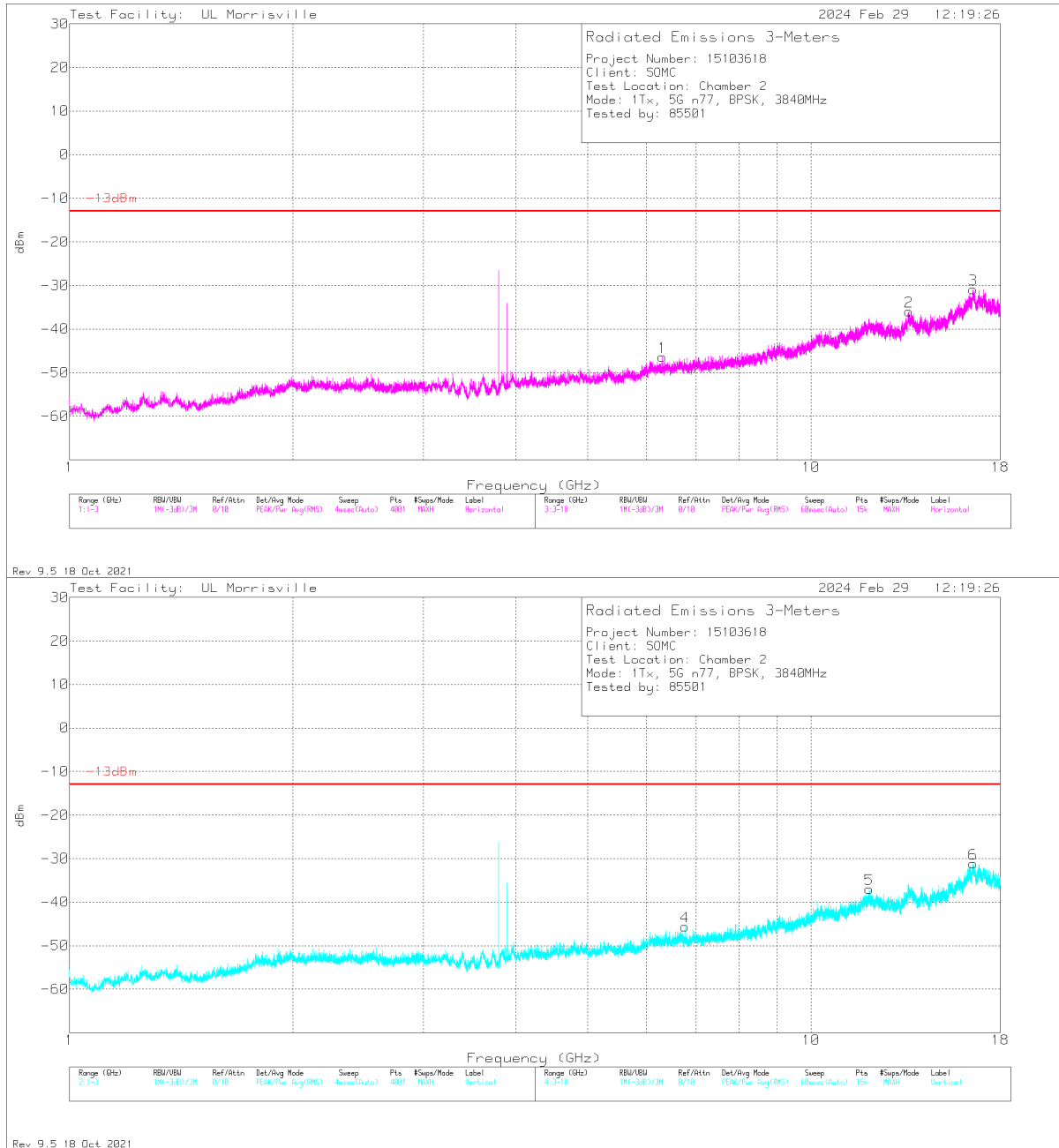


Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.278	-67.19	Pk	35.6	-26.9	11.8	.7	-45.99	-13	-32.99	0-360	200	H
4	10.639	-66.31	Pk	37.6	-23.4	11.8	.8	-39.51	-13	-26.51	0-360	200	V
2	13.516	-65.22	Pk	38.9	-22.8	11.8	1.3	-36.02	-13	-23.02	0-360	299	H
5	13.596	-63.81	Pk	38.9	-23.9	11.8	1	-36.01	-13	-23.01	0-360	299	V
3	16.86	-66.59	Pk	41.2	-17.9	11.8	1.2	-30.29	-13	-17.29	0-360	299	H
6	17.077	-65.72	Pk	41.3	-19.3	11.8	1.4	-30.52	-13	-17.52	0-360	101	V

Pk - Peak detector

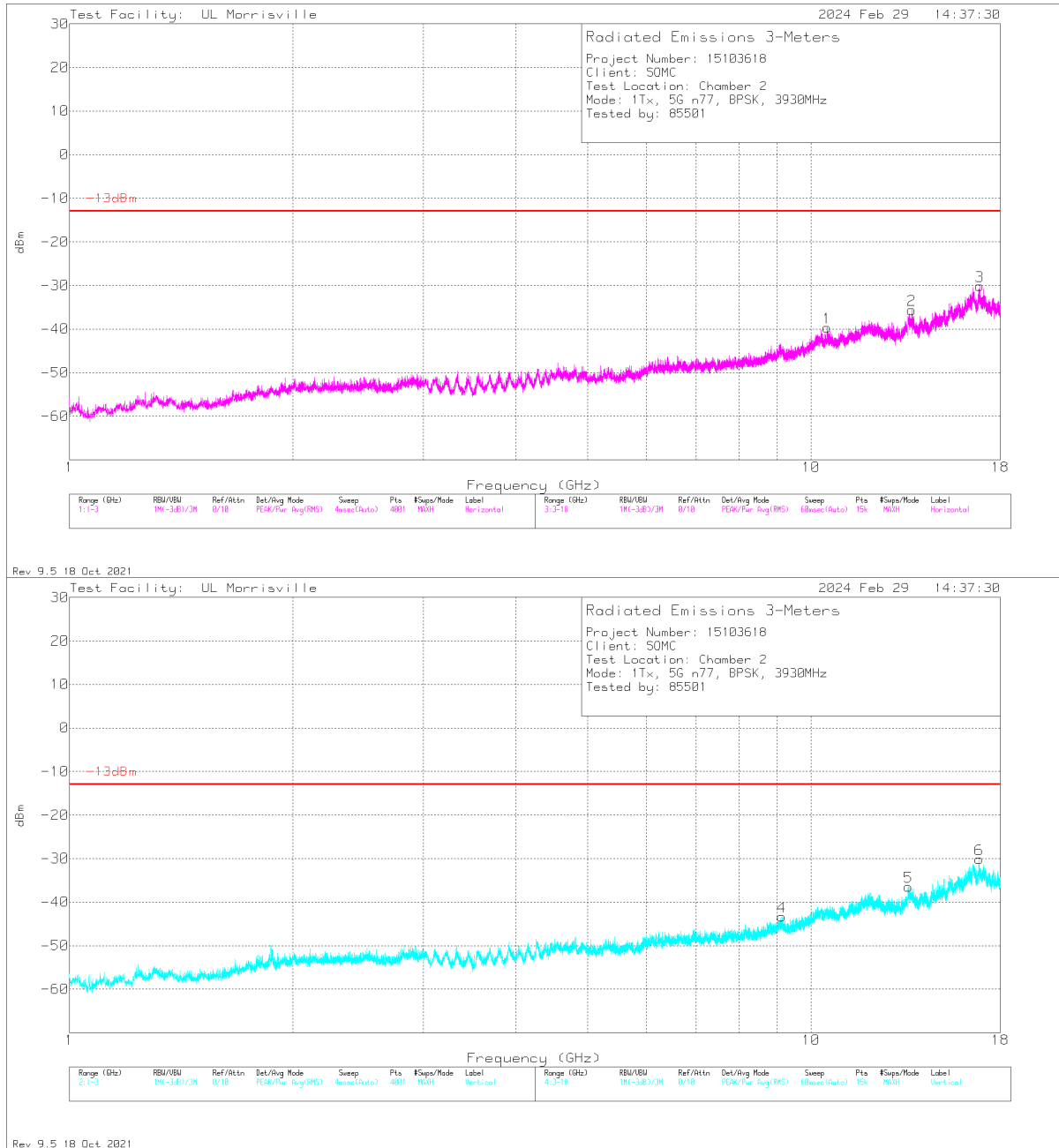
QPSK 5G NR N77 (100MHz, Mid Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.307	-67.1	Pk	35.6	-27.2	11.8	.5	-46.4	-13	-33.4	0-360	101	H
4	6.762	-65.76	Pk	35.7	-27.9	11.8	.5	-45.66	-13	-32.66	0-360	101	V
5	11.987	-65.84	Pk	38.9	-22.9	11.8	1.1	-36.94	-13	-23.94	0-360	101	V
2	13.552	-64.68	Pk	38.9	-23.4	11.8	1.4	-35.98	-13	-22.98	0-360	101	H
6	16.534	-67	Pk	40.7	-18.1	11.8	1.4	-31.2	-13	-18.2	0-360	300	V
3	16.548	-66.5	Pk	40.7	-18.1	11.8	1.2	-30.9	-13	-17.9	0-360	199	H

Pk - Peak detector

QPSK 5G NR N77 (100MHz, High Channel)

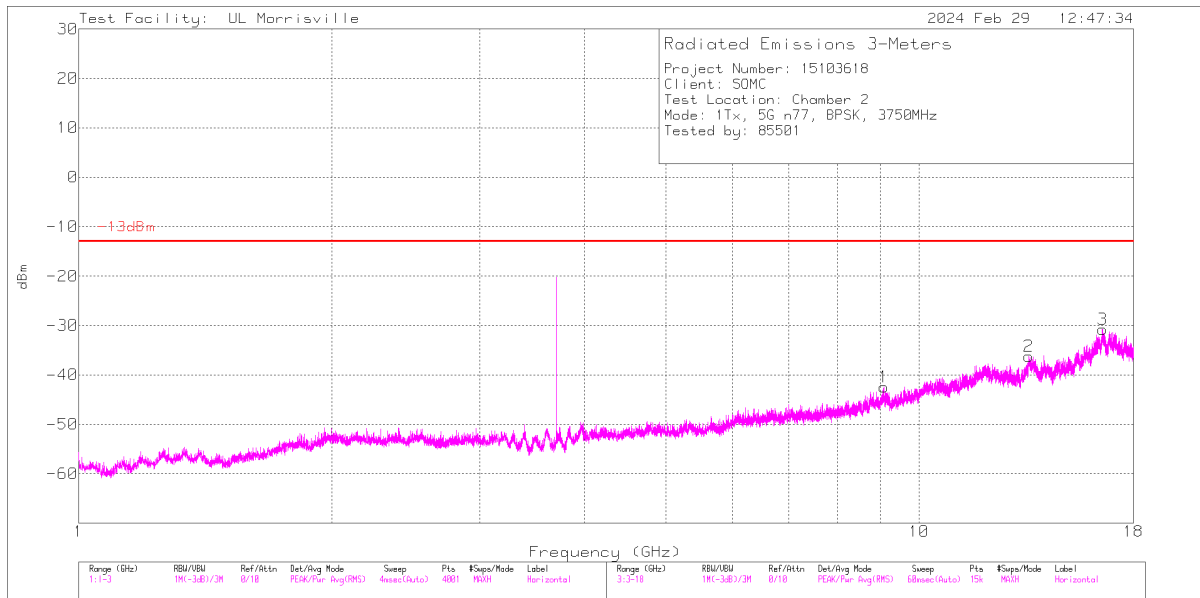


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	9.128	-66.59	Pk	35.9	-25	11.8	.5	-43.39	-13	-30.39	0-360	300	V
1	10.52	-66.16	Pk	37.7	-23.9	11.8	.9	-39.66	-13	-26.66	0-360	200	H
5	13.523	-64.92	Pk	38.9	-23	11.8	.7	-36.52	-13	-23.52	0-360	300	V
2	13.677	-64.15	Pk	38.9	-23	11.8	.8	-35.65	-13	-22.65	0-360	200	H
6	16.852	-66.73	Pk	41.2	-18.1	11.8	1.7	-30.13	-13	-17.13	0-360	200	V
3	16.881	-65.89	Pk	41.3	-19	11.8	1.6	-30.19	-13	-17.19	0-360	300	H

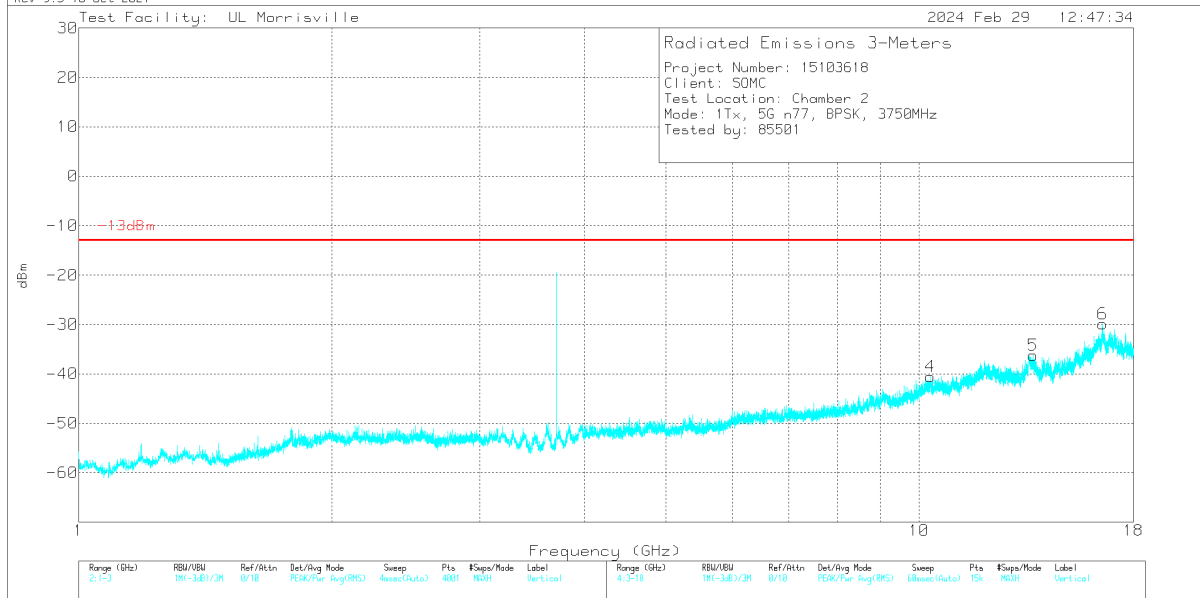
Pk - Peak detector

Cell 4th Antenna

QPSK 5G NR N77 (100MHz, Low Channel)



Rev 9.5 18 Oct 2021

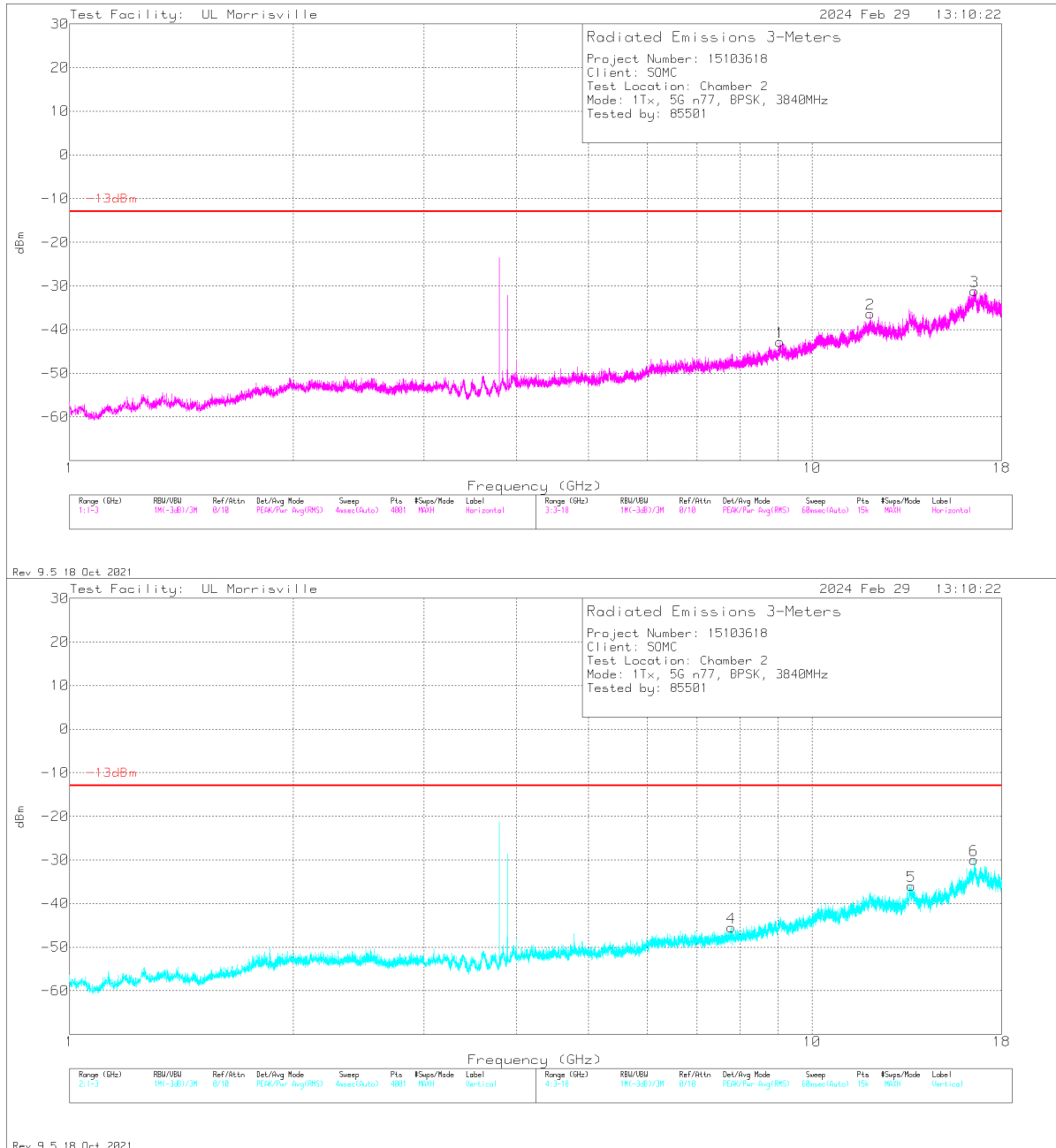


Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	9.079	-65.9	Pk	35.9	-25.2	11.8	.9	-42.5	-13	-29.5	0-360	299	H
4	10.313	-67.42	Pk	37.6	-23.4	11.8	.9	-40.52	-13	-27.52	0-360	299	V
2	13.517	-65.38	Pk	38.9	-22.8	11.8	1.3	-36.18	-13	-23.18	0-360	199	H
5	13.671	-65.18	Pk	38.9	-23.1	11.8	1.4	-36.18	-13	-23.18	0-360	201	V
6	16.54	-65.92	Pk	40.7	-17.8	11.8	1.3	-29.92	-13	-16.92	0-360	101	V
3	16.556	-66.25	Pk	40.7	-18.2	11.8	1.2	-30.75	-13	-17.75	0-360	299	H

Pk - Peak detector

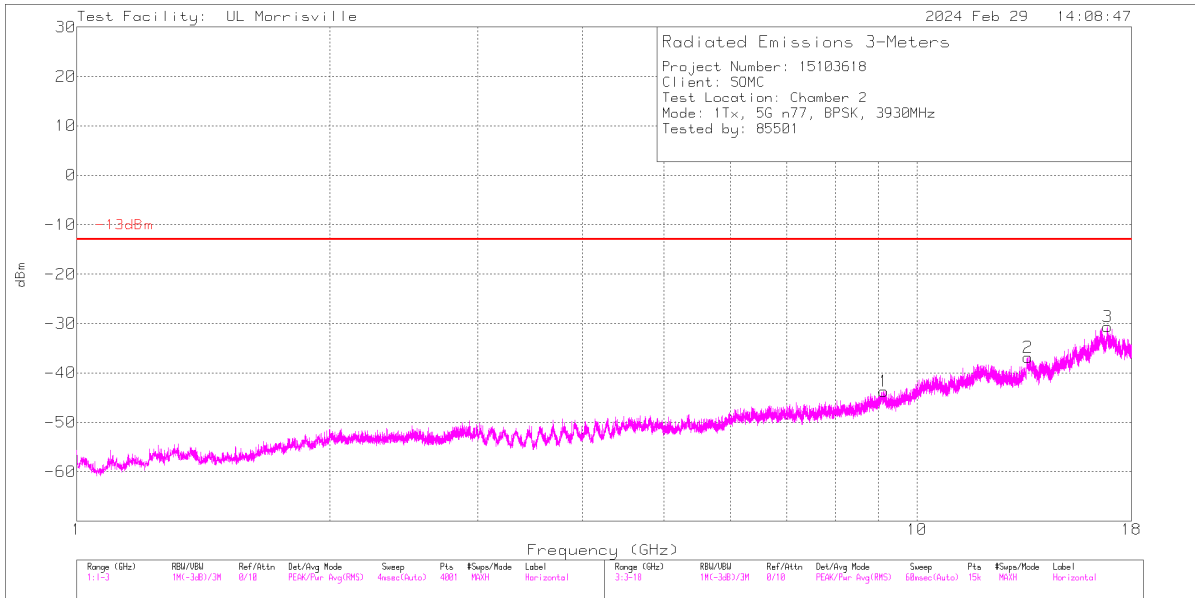
QPSK 5G NR N77 (100MHz, Mid Channel)



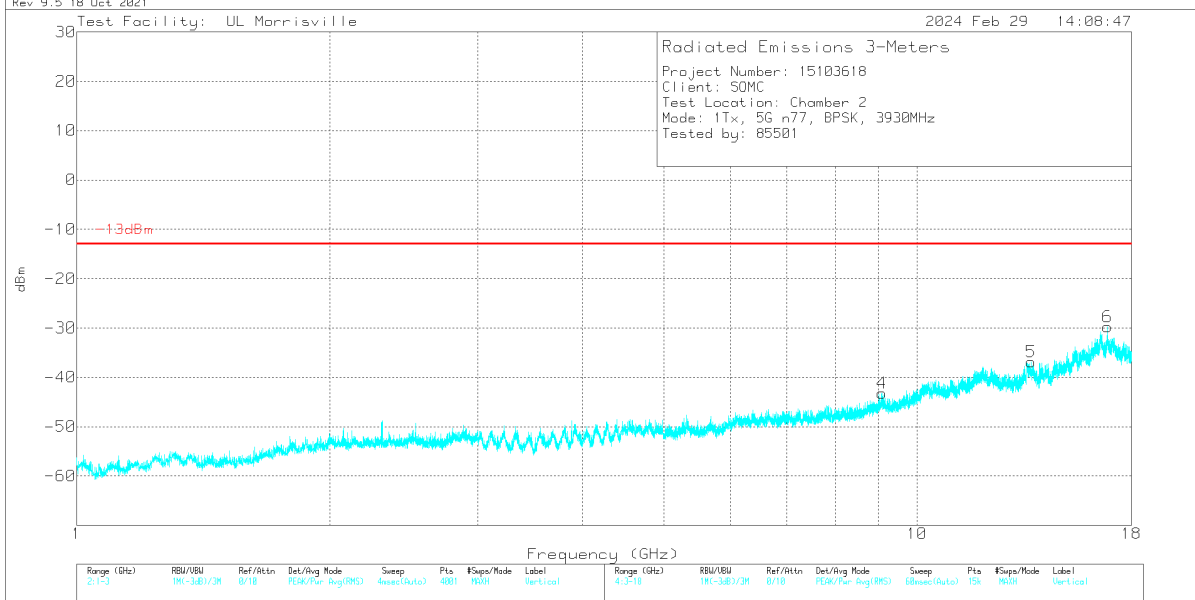
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	7.783	-67.63	Pk	35.8	-26.3	11.8	.8	-45.53	-13	-32.53	0-360	200	V
1	9.06	-66.14	Pk	35.9	-25.5	11.8	1.1	-42.84	-13	-29.84	0-360	200	H
2	11.973	-65.81	Pk	38.9	-22.5	11.8	1.2	-36.41	-13	-23.41	0-360	300	H
5	13.614	-63.78	Pk	38.9	-23.9	11.8	1	-35.98	-13	-22.98	0-360	101	V
6	16.513	-65.24	Pk	40.6	-18.7	11.8	1.5	-30.04	-13	-17.04	0-360	200	V
3	16.541	-67.13	Pk	40.7	-17.8	11.8	1.3	-31.13	-13	-18.13	0-360	300	H

Pk - Peak detector

QPSK 5G NR N77 (100MHz, High Channel)



Rev 9.5 18 Oct 2021



Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	9.086	-66.25	Pk	35.9	-25.3	11.8	.6	-43.25	-13	-30.25	0-360	101	V
1	9.139	-67.19	Pk	35.9	-24.7	11.8	.5	-43.69	-13	-30.69	0-360	101	H
2	13.55	-64.86	Pk	38.9	-23.5	11.8	.8	-36.86	-13	-23.86	0-360	101	H
5	13.677	-65.31	Pk	38.9	-23	11.8	.8	-36.81	-13	-23.81	0-360	101	V
3	16.859	-67.48	Pk	41.2	-17.9	11.8	1.7	-30.68	-13	-17.68	0-360	200	H
6	16.859	-66.55	Pk	41.2	-17.9	11.8	1.7	-29.75	-13	-16.75	0-360	101	V

Pk - Peak detector

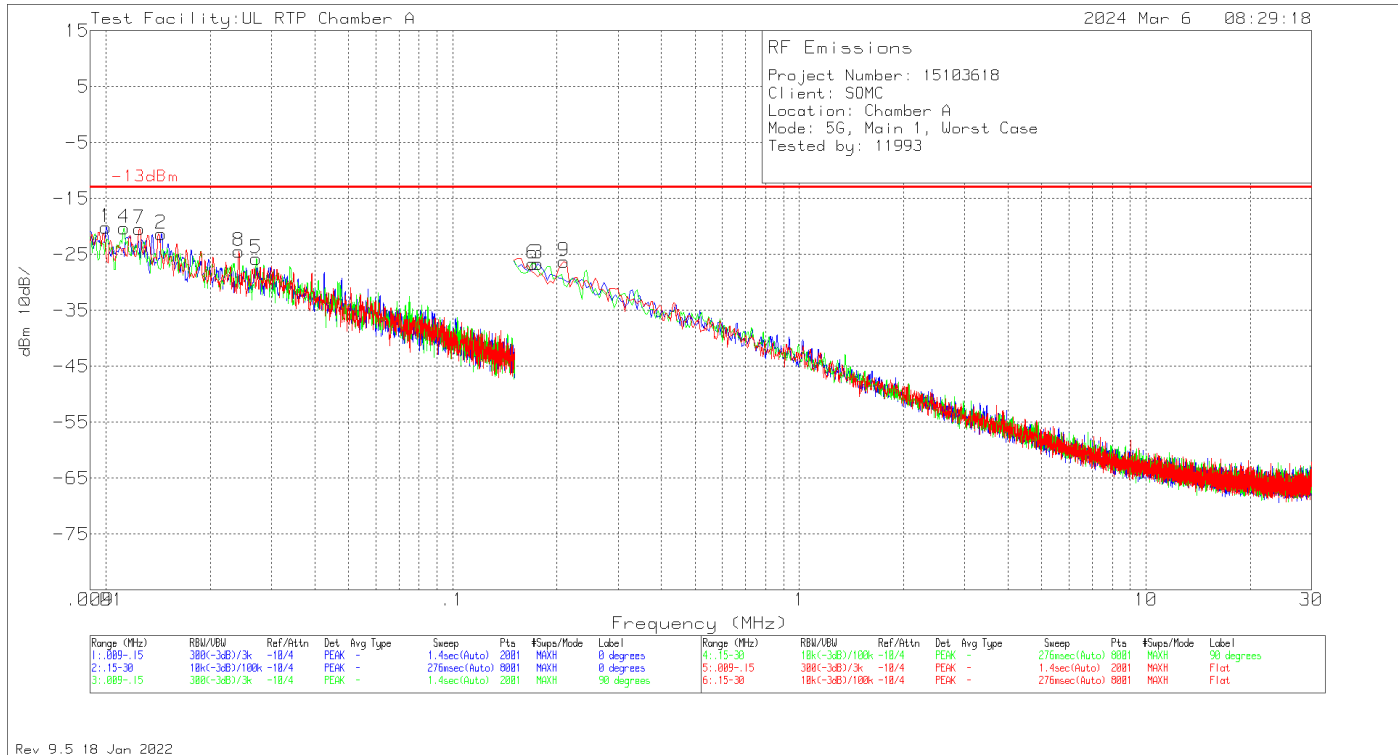
10.2. Worst Case Emissions

LIMITS

The minimum permissible attenuation level of any spurious emissions is 43 + 10 log (P) dB where transmitting power (P) in Watts.

10.2.1. Main1 Antenna

9kHz – 30MHz Worst-Case Emissions

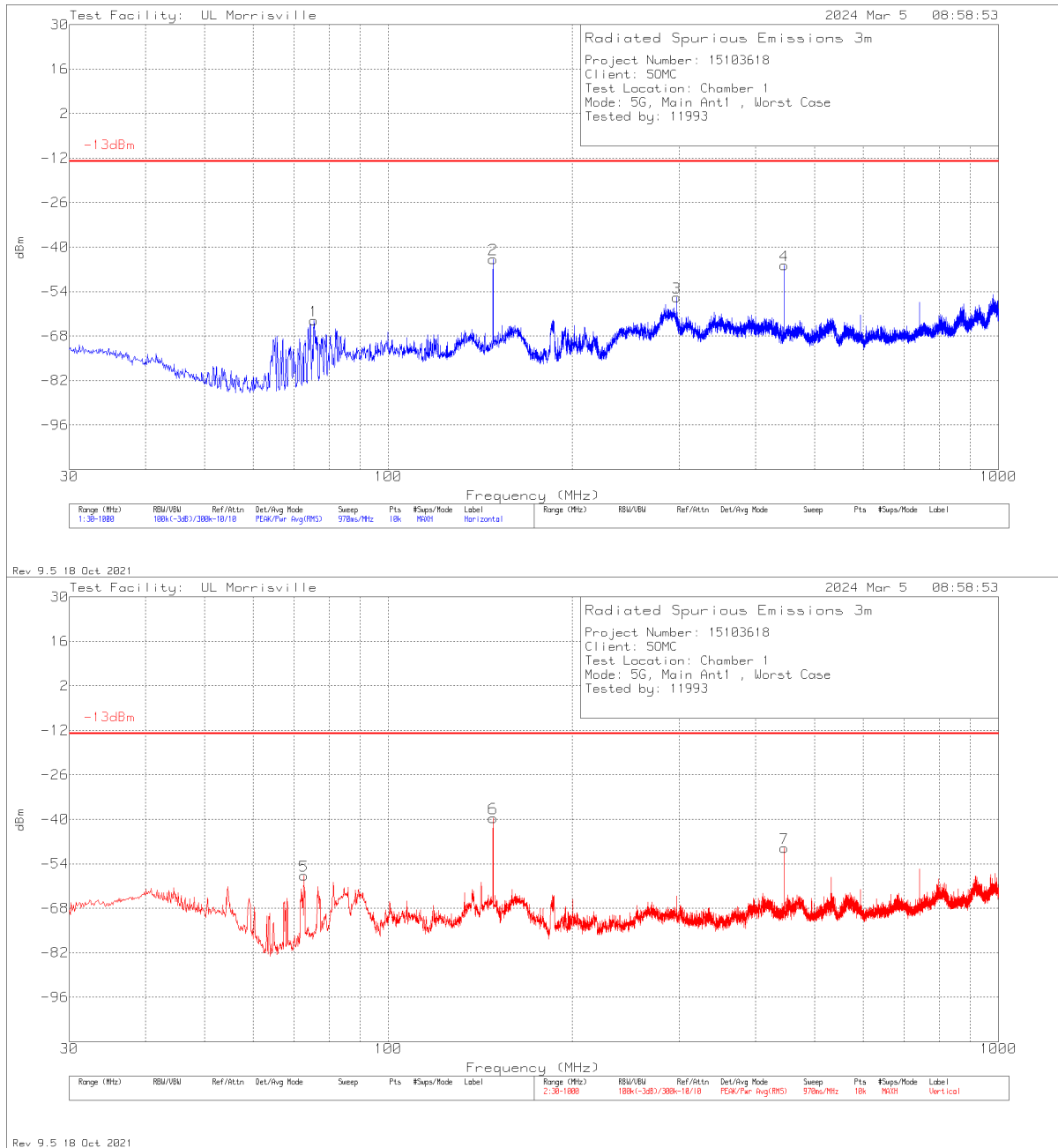


Rev 9.5 18 Jan 2022

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	135144 (dBuV/m)	DCF (dB)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Loop Angle
1	.01	-61	Pk	18.5	10.5	11.8	.1	-20.1	-13	-7.1	0-360	0 degs
4	.0113	-60.58	Pk	17.9	10.5	11.8	.1	-20.28	-13	-7.28	0-360	90 degs
7	.0125	-60.24	Pk	17.4	10.5	11.8	.1	-20.44	-13	-7.44	0-360	Flat
2	.0144	-60.26	Pk	16.5	10.5	11.8	.1	-21.36	-13	-8.36	0-360	0 degs
8	.0242	-60.49	Pk	13.7	10.5	11.8	.1	-24.39	-13	-11.39	0-360	Flat
5	.0272	-61.77	Pk	13.6	10.5	11.8	.1	-25.77	-13	-12.77	0-360	90 degs
6	.1705	-60.17	Pk	11.1	10.5	11.8	.1	-26.67	-13	-13.67	0-360	90 degs
3	.1761	-60.11	Pk	11.1	10.5	11.8	.1	-26.61	-13	-13.61	0-360	0 degs
9	.2097	-59.8	Pk	11.1	10.5	11.8	.1	-26.3	-13	-13.3	0-360	Flat

Pk - Peak detector

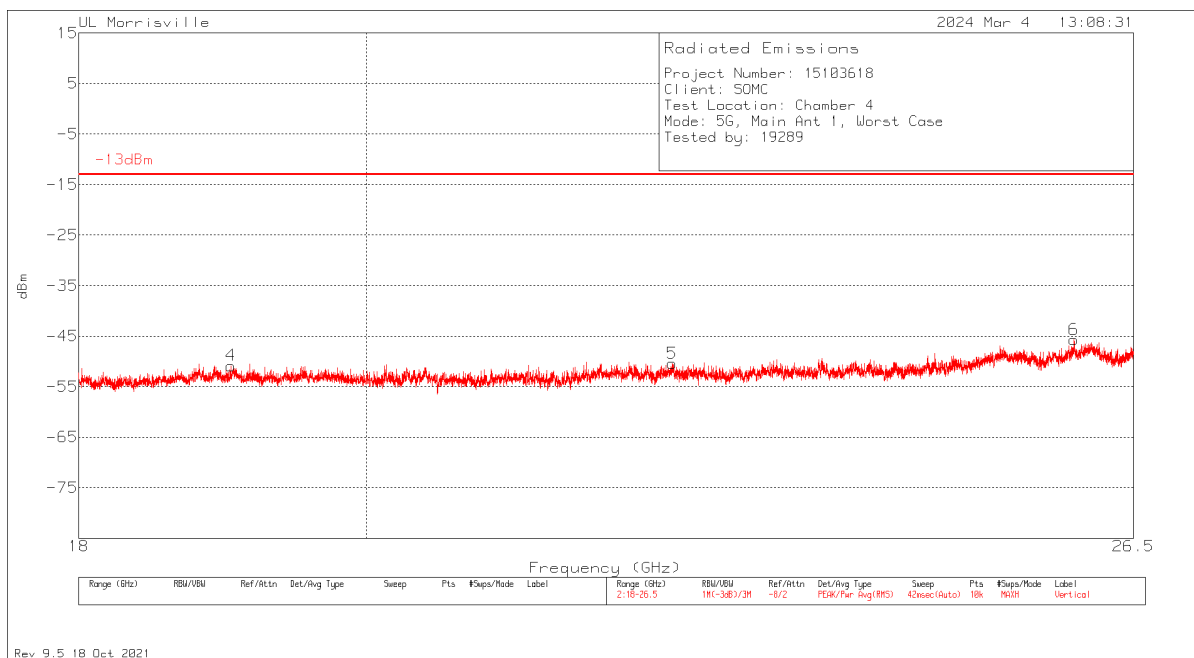
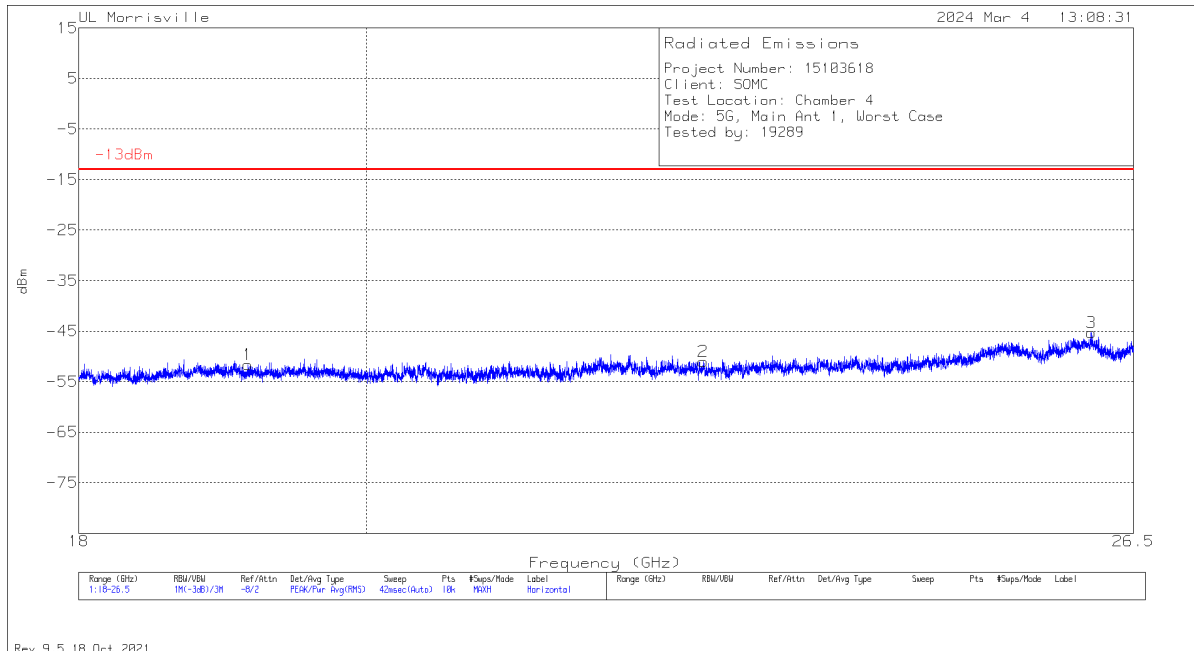
30MHz – 1000MHz Worst-Case Emissions



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	90629 (dB/m)	Gain/Loss (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	72.777	-52.95	Pk	14.5	-31.2	.1	11.8	-57.75	-13	-44.75	0-360	100	V
1	75.493	-58.16	Pk	14.4	-31.2	.1	11.8	-63.06	-13	-50.06	0-360	200	H
2	148.437	-44.14	Pk	18.8	-30.5	.3	11.8	-43.74	-13	-30.74	0-360	200	H
6	148.437	-39.97	Pk	18.8	-30.5	.3	11.8	-39.57	-13	-26.57	0-360	100	V
3	296.944	-57.92	Pk	19.6	-29.5	.2	11.8	-55.82	-13	-42.82	0-360	99	H
4	445.451	-52.16	Pk	22.8	-28.6	.4	11.8	-45.76	-13	-32.76	0-360	99	H
7	445.451	-55.38	Pk	22.8	-28.6	.4	11.8	-48.98	-13	-35.98	0-360	100	V

Pk - Peak detector

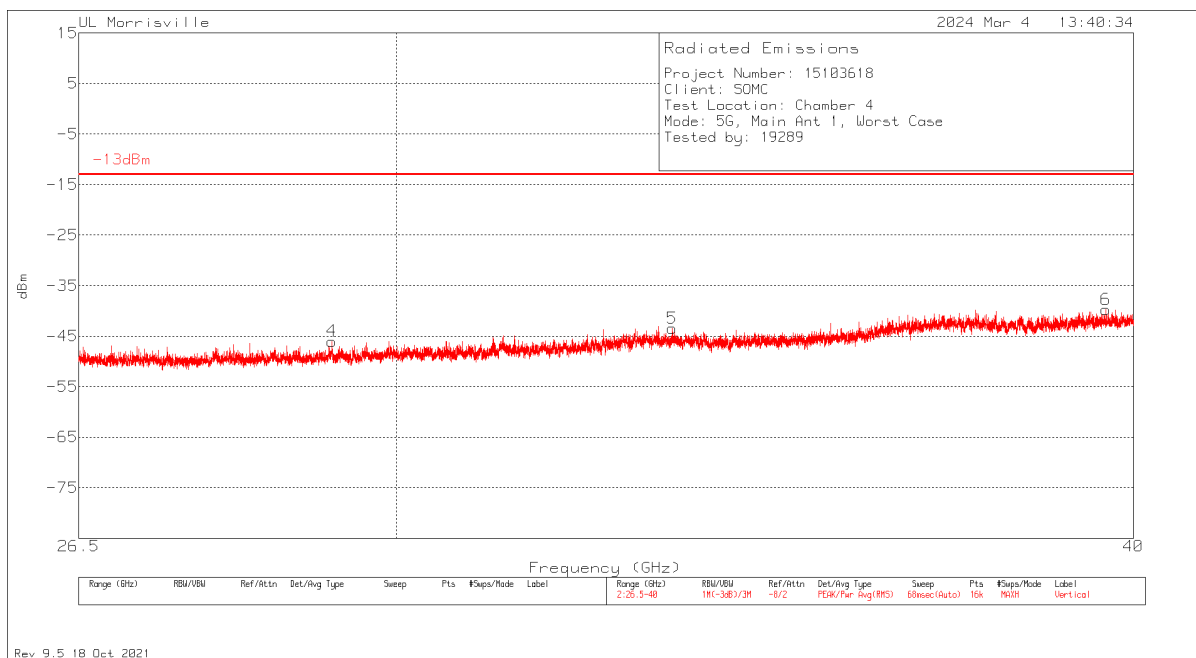
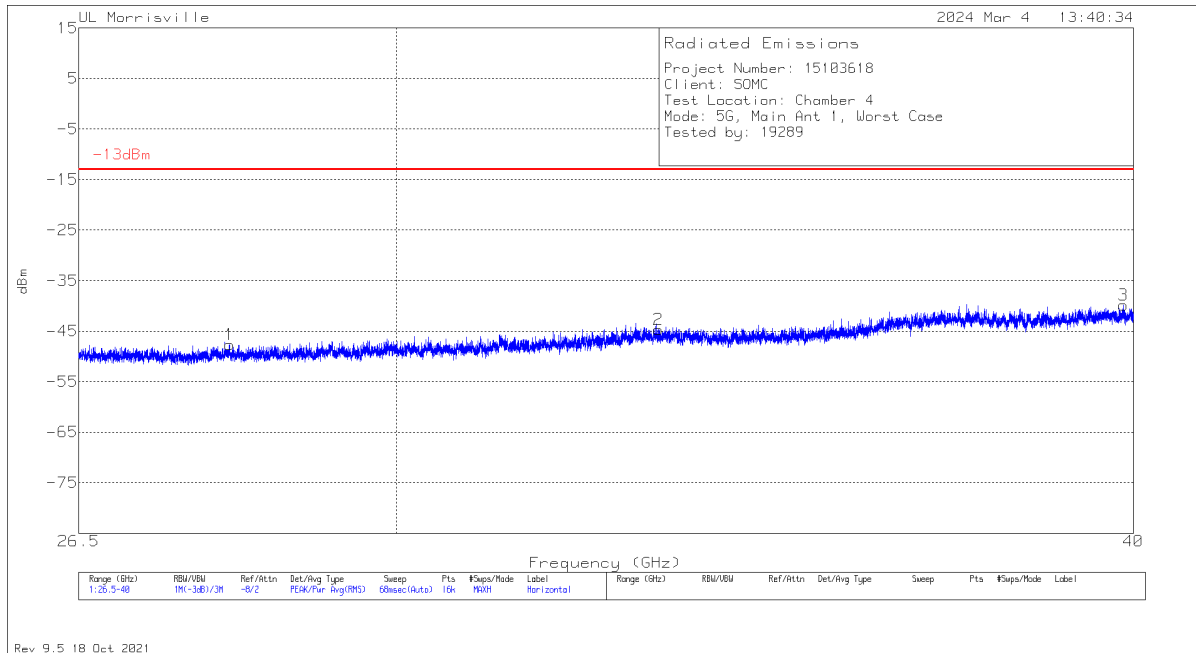
18GHz – 26.5GHz Worst-Case Emissions



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	204704 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	19.03435	-56.33	Pk	33.6	-39.9	11.8	-50.83	-13	-37.83	0-360	200	V
1	19.14994	-57.24	Pk	33.6	-39.8	11.8	-51.64	-13	-38.64	0-360	250	H
5	22.37791	-58.67	Pk	34.1	-37.6	11.8	-50.37	-13	-37.37	0-360	200	V
2	22.63204	-58.66	Pk	34.2	-38.4	11.8	-51.06	-13	-38.06	0-360	200	H
6	25.92716	-58.73	Pk	35.3	-34.1	11.8	-45.73	-13	-32.73	0-360	150	V
3	26.09204	-58.46	Pk	35.2	-33.8	11.8	-45.26	-13	-32.26	0-360	250	H

Pk - Peak detector

26.5GHz - 40GHz Worst-Case Emissions

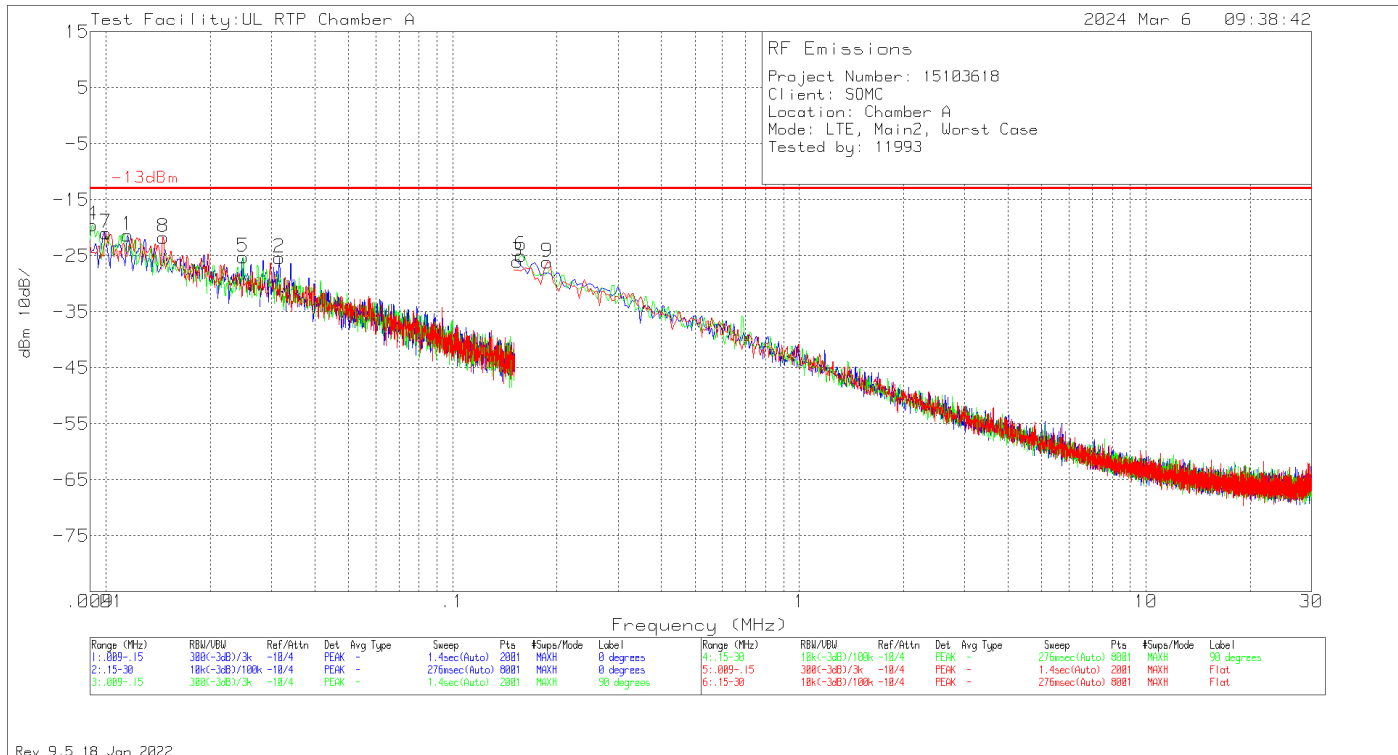


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	204705 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	28.10809	-63.71	Pk	36.5	-32.2	11.8	-47.61	-13	-34.61	0-360	200	H
4	29.25551	-62.59	Pk	36.2	-31.4	11.8	-45.99	-13	-32.99	0-360	150	V
2	33.2327	-61.85	Pk	37	-31.6	11.8	-44.65	-13	-31.65	0-360	200	H
5	33.40566	-60.91	Pk	37.1	-31.4	11.8	-43.41	-13	-30.41	0-360	150	V
6	39.57477	-59.45	Pk	38.6	-30.7	11.8	-39.75	-13	-26.75	0-360	250	V
3	39.84138	-60.08	Pk	38.5	-30.1	11.8	-39.88	-13	-26.88	0-360	250	H

Pk - Peak detector

10.2.2. Main2 Antenna

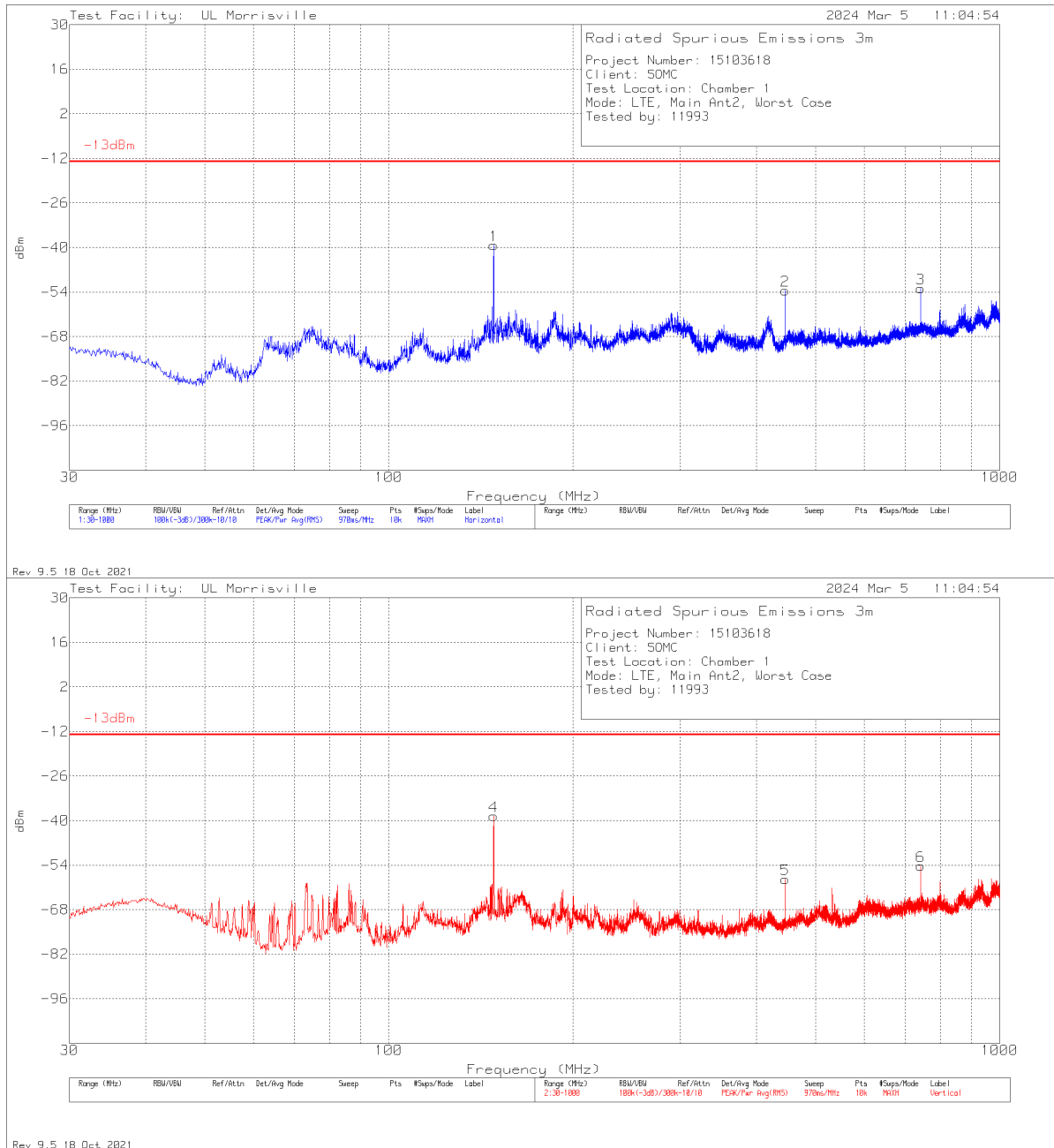
9kHz – 30MHz Worst-Case Emissions



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	135144 (dBuV/m)	DCF (dB)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Loop Angle
4	.0091	-60.82	Pk	18.9	10.5	11.8	.1	-19.52	-13	-6.52	0-360	90 degs
7	.01	-61.79	Pk	18.5	10.5	11.8	.1	-20.89	-13	-7.89	0-360	Flat
1	.0116	-61.55	Pk	17.8	10.5	11.8	.1	-21.35	-13	-8.35	0-360	0 degs
8	.0146	-60.45	Pk	16.4	10.5	11.8	.1	-21.65	-13	-8.65	0-360	Flat
5	.0249	-61.3	Pk	13.7	10.5	11.8	.1	-25.2	-13	-12.2	0-360	90 degs
2	.0316	-61.1	Pk	13.3	10.5	11.8	.1	-25.4	-13	-12.4	0-360	0 degs
3	.1537	-59.45	Pk	11.1	10.5	11.8	.1	-25.95	-13	-12.95	0-360	0 degs
6	.1575	-58.5	Pk	11.1	10.5	11.8	.1	-25	-13	-12	0-360	90 degs
9	.1873	-59.62	Pk	11.1	10.5	11.8	.1	-26.12	-13	-13.12	0-360	Flat

Pk - Peak detector

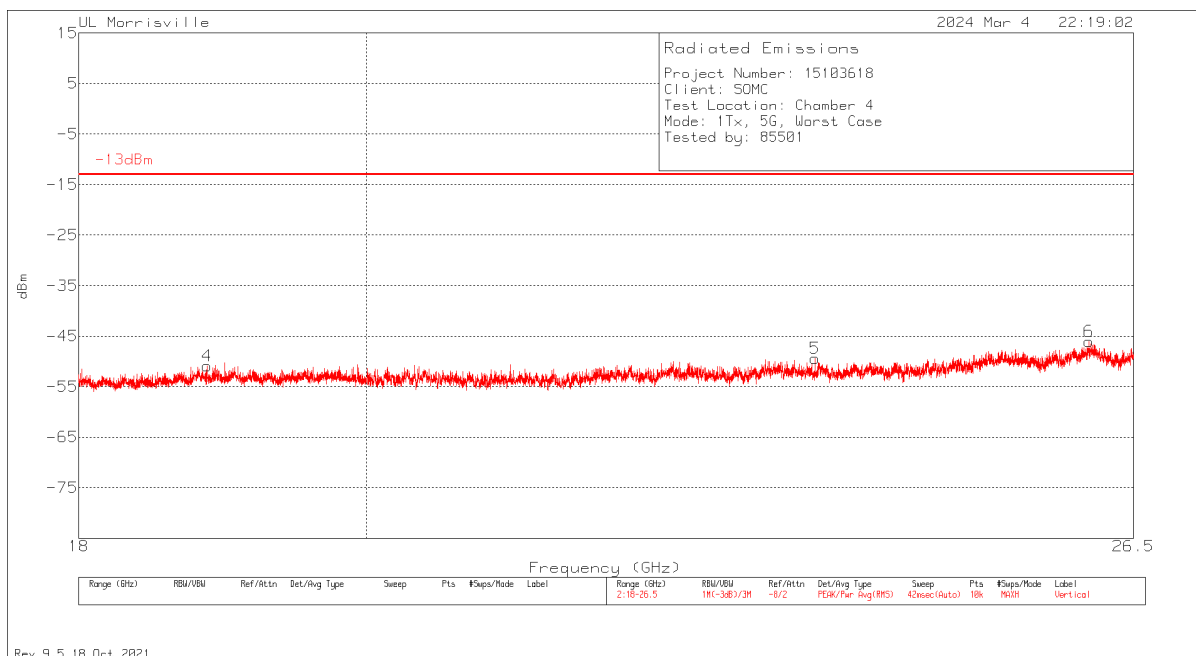
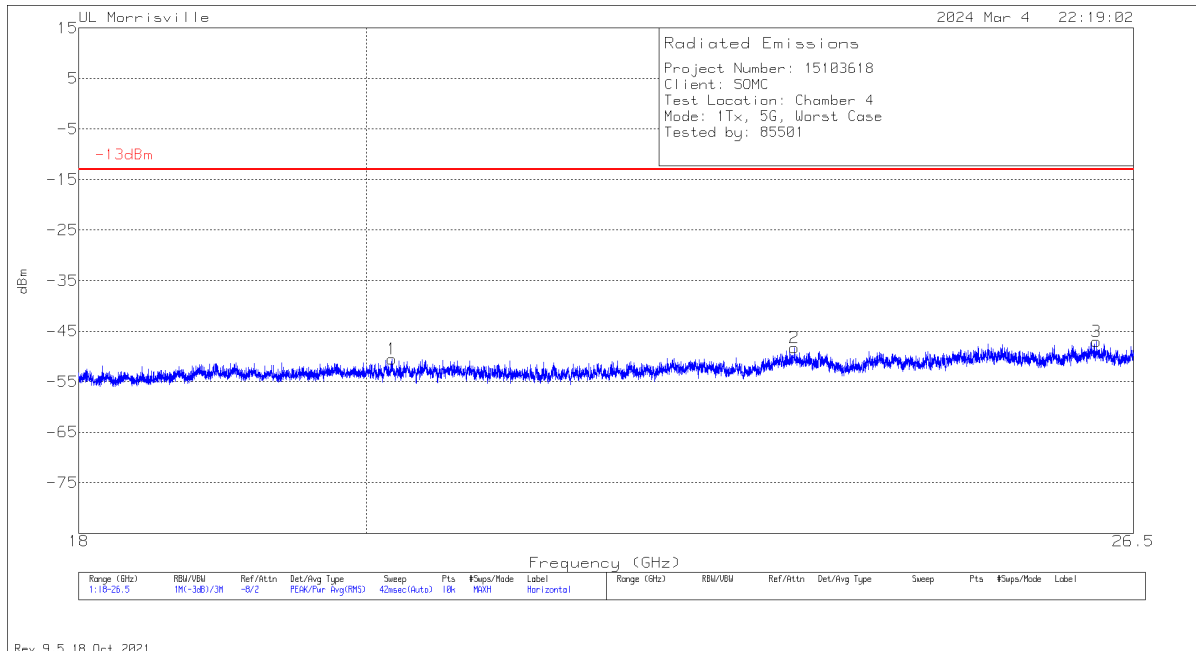
30MHz – 1000MHz Worst-Case Emissions



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	90629 (dB/m)	Gain/Loss (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	148.437	-39.74	Pk	18.8	-30.5	.3	11.8	-39.34	-13	-26.34	0-360	200	H
4	148.437	-38.99	Pk	18.8	-30.5	.3	11.8	-38.59	-13	-25.59	0-360	100	V
2	445.451	-59.99	Pk	22.8	-28.6	.4	11.8	-53.59	-13	-40.59	0-360	99	H
5	445.451	-64.77	Pk	22.8	-28.6	.4	11.8	-58.37	-13	-45.37	0-360	100	V
3	742.562	-64.45	Pk	27	-27.6	.4	11.8	-52.85	-13	-39.85	0-360	99	H
6	742.562	-65.84	Pk	27	-27.6	.4	11.8	-54.24	-13	-41.24	0-360	100	V

Pk - Peak detector

18GHz – 26.5GHz Worst-Case Emissions

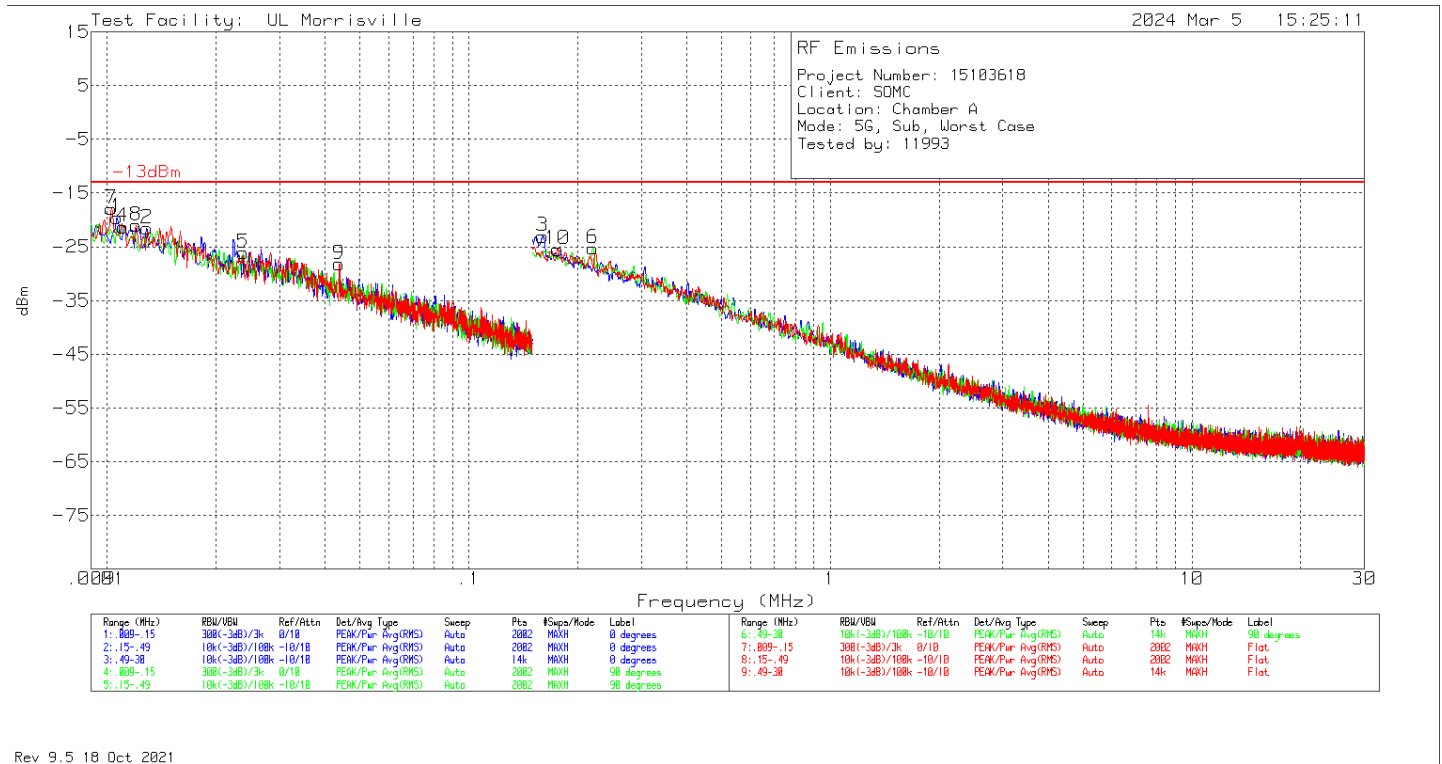


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	204704 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	18.86606	-56.26	Pk	33.5	-39.9	11.8	-50.86	-13	-37.86	0-360	300	V
1	20.19193	-56.46	Pk	33.4	-39.3	11.8	-50.56	-13	-37.56	0-360	100	H
2	23.40036	-57.65	Pk	34.6	-37	11.8	-48.25	-13	-35.25	0-360	100	H
5	23.58139	-58.02	Pk	34.6	-37.8	11.8	-49.42	-13	-36.42	0-360	300	V
6	26.07334	-59.1	Pk	35.2	-34	11.8	-46.1	-13	-33.1	0-360	200	V
3	26.14389	-60.13	Pk	35.2	-33.9	11.8	-47.03	-13	-34.03	0-360	250	H

Pk - Peak detector

10.2.3. Sub Antenna

9kHz – 30MHz Worst-Case Emissions

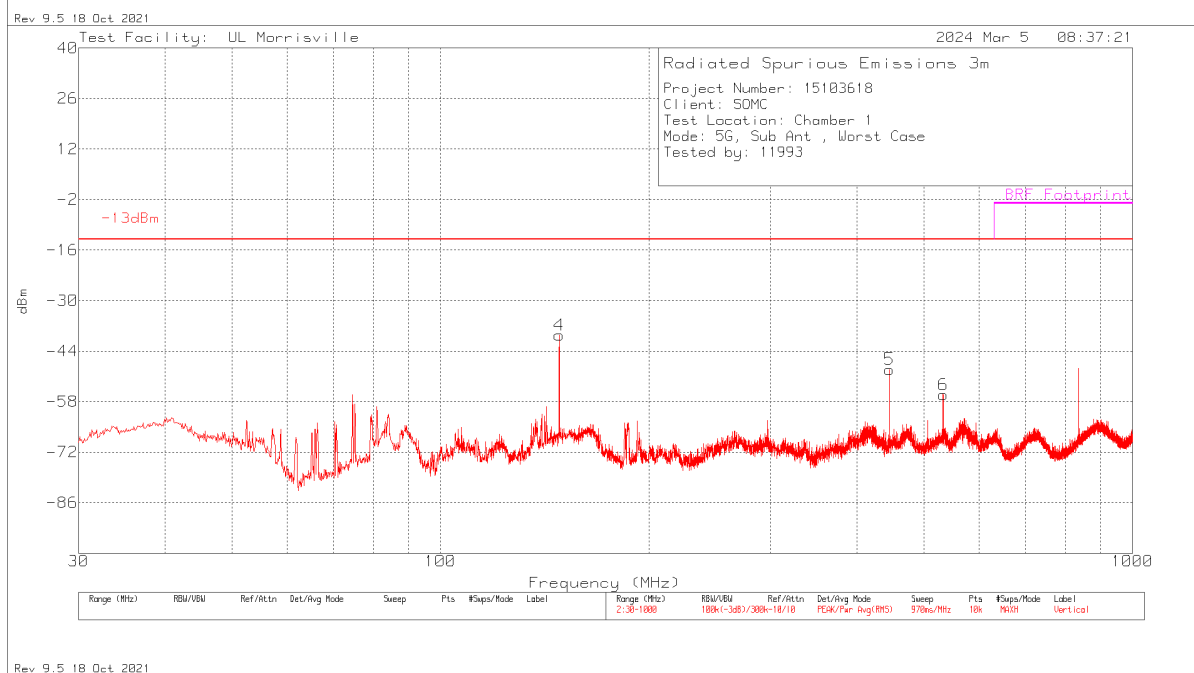
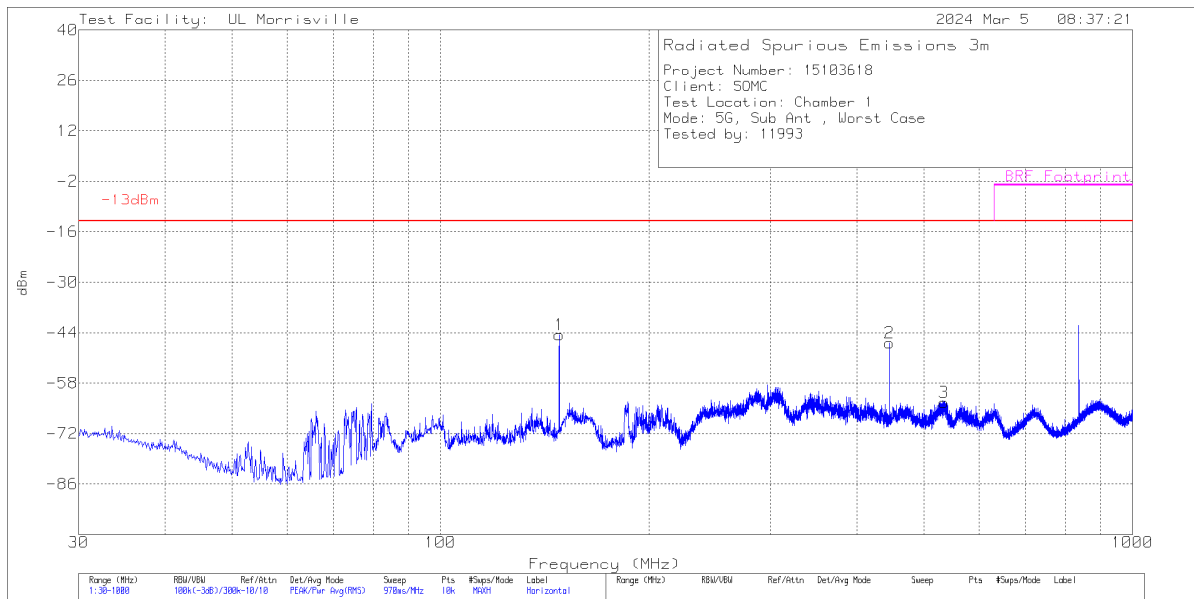


Rev 9.5 18 Oct 2021

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	135144 (dBuV/m)	Gain/Loss (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Loop Angle
1	.01061	-60.19	Pk	18.2	22.4	-19.59	-13	-6.59	0-360	0 Deg
2	.01285	-61.16	Pk	17.2	22.4	-21.56	-13	-8.56	0-360	0 Deg
3	.15995	-56.55	Pk	11.1	22.4	-23.05	-13	-10.05	0-360	0 Deg
4	.01103	-61.68	Pk	18	22.4	-21.28	-13	-8.28	0-360	90 Deg
5	.02377	-62.3	Pk	13.8	22.4	-26.1	-13	-13.1	0-360	90 Deg
6	.2203	-58.77	Pk	11.1	22.4	-25.27	-13	-12.27	0-360	90 Deg
7	.01038	-61.83	Pk	18.3	22.4	-21.13	-13	-8.13	139	Flat
8	.01201	-61.02	Pk	17.6	22.4	-21.02	-13	-8.02	0-360	Flat
9	.04379	-62.7	Pk	12.1	22.4	-28.2	-13	-15.2	0-360	Flat
10	.17584	-58.97	Pk	11.1	22.4	-25.47	-13	-12.47	0-360	Flat

Pk - Peak detector

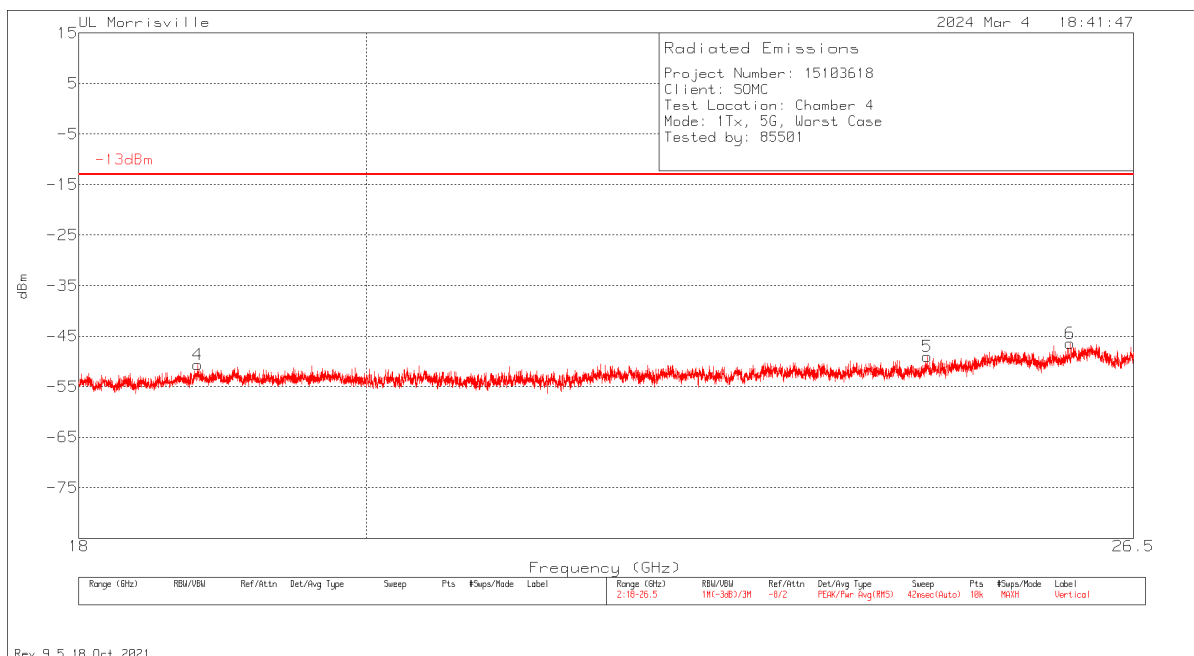
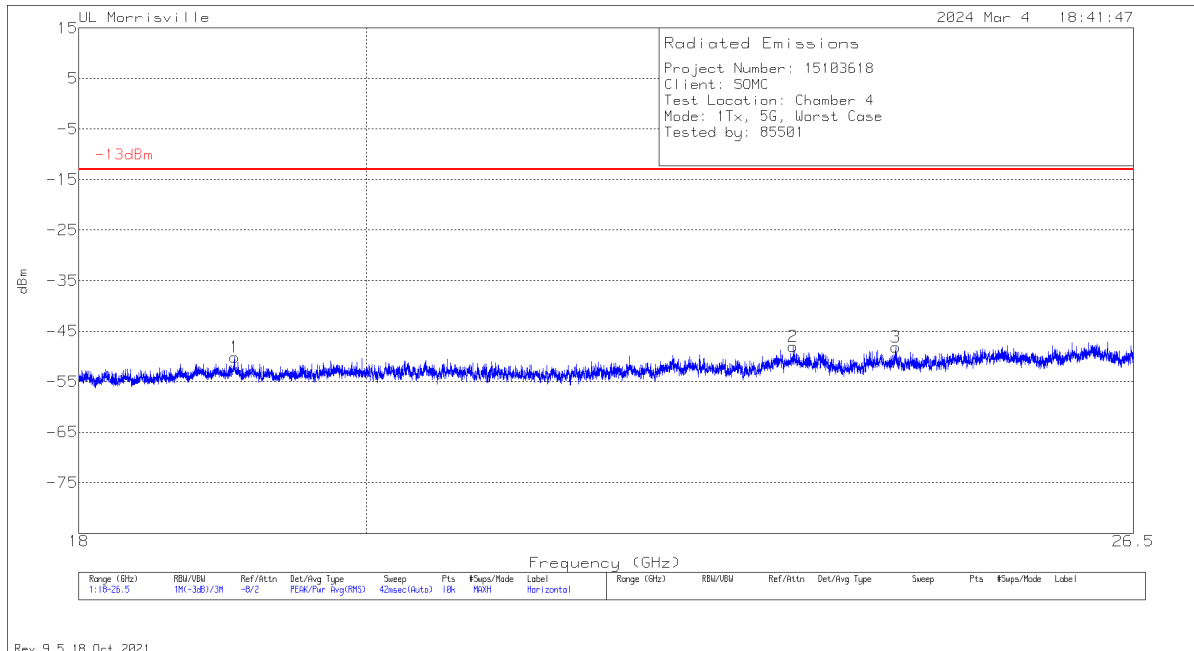
30MHz – 1000MHz Worst-Case Emissions



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	90629 (dB/m)	Gain/Loss (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	148.437	-45.27	Pk	18.8	-30.5	.6	11.8	-44.57	-13	-31.57	0-360	200	H
4	148.437	-40.28	Pk	18.8	-30.5	.6	11.8	-39.58	-13	-26.58	0-360	100	V
2	445.451	-53.39	Pk	22.8	-28.6	.5	11.8	-46.89	-13	-33.89	0-360	100	H
5	445.451	-55.54	Pk	22.8	-28.6	.5	11.8	-49.04	-13	-36.04	0-360	100	V
6	532.46	-64.44	Pk	24.2	-28.3	.7	11.8	-56.04	-13	-43.04	0-360	100	V
3	533.818	-71.54	Pk	24.2	-28.5	.7	11.8	-63.34	-13	-50.34	0-360	100	H

Pk - Peak detector

18GHz – 26.5GHz Worst-Case Emissions



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	204704 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	18.80232	-56.22	Pk	33.4	-39.6	11.8	-50.62	-13	-37.62	0-360	150	V
1	19.05814	-56.02	Pk	33.7	-39.6	11.8	-50.12	-13	-37.12	0-360	250	H
2	23.39016	-57.26	Pk	34.6	-37.2	11.8	-48.06	-13	-35.06	0-360	100	H
3	24.28682	-58.34	Pk	34.5	-36.1	11.8	-48.14	-13	-35.14	0-360	100	H
5	24.56899	-60.51	Pk	34.7	-35	11.8	-49.01	-13	-36.01	0-360	300	V
6	25.89316	-59.34	Pk	35.3	-34.2	11.8	-46.44	-13	-33.44	0-360	150	V

Pk - Peak detector