

# Appendix B.16

## LTE CA\_38C



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Ant31

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#0-0RB#0	23.20	21.94	33.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	75RB#0-75RB#0	22.21	20.95	33.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	1RB#0-0RB#0	23.40	22.14	33.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	22.22	20.96	33.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	1RB#0-0RB#0	23.20	21.94	33.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	22.20	20.94	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	22.48	21.22	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	21.21	19.95	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	1RB#0-0RB#0	22.57	21.31	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	21.24	19.98	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	1RB#0-0RB#0	22.58	21.32	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	21.23	19.97	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	1RB#0-0RB#0	21.88	20.62	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	21.19	19.93	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	1RB#0-0RB#0	21.85	20.59	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	21.23	19.97	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	1RB#0-0RB#0	21.82	20.56	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	21.25	19.99	33.00	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	1RB#0-0RB#0	18.59	17.33	33.00	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	75RB#0-75RB#0	19.22	17.96	33.00	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	1RB#0-0RB#0	18.59	17.33	33.00	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	75RB#0-75RB#0	19.23	17.97	33.00	PASS
38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	1RB#0-0RB#0	18.60	17.34	33.00	PASS
38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	75RB#0-75RB#0	19.25	17.99	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	22.11	20.85	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#0-0RB#0	23.33	22.07	33.00	PASS



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Rev.: 01

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38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	22.14	20.88	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#0-0RB#0	23.10	21.84	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	22.15	20.89	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#0-0RB#0	23.44	22.18	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	21.13	19.87	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#0-0RB#0	22.55	21.29	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	21.16	19.90	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#0-0RB#0	22.46	21.20	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	21.15	19.89	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#0-0RB#0	22.51	21.25	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	21.12	19.86	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	1RB#0-0RB#0	21.72	20.46	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	21.15	19.89	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	1RB#0-0RB#0	21.74	20.48	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	21.23	19.97	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	1RB#0-0RB#0	21.74	20.48	33.00	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	100RB#0-100RB#0	19.12	17.86	33.00	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	1RB#0-0RB#0	18.68	17.42	33.00	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	19.14	17.88	33.00	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	1RB#0-0RB#0	18.43	17.17	33.00	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	100RB#0-100RB#0	19.21	17.95	33.00	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	1RB#0-0RB#0	18.56	17.30	33.00	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	9.34	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	9.46	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	9.56	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	10.24	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	10.22	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	10.22	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	10.06	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	10.28	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	10.32	13	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	100RB#0-100RB#0	10.52	13	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	10.52	13	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	100RB#0-100RB#0	10.60	13	PASS



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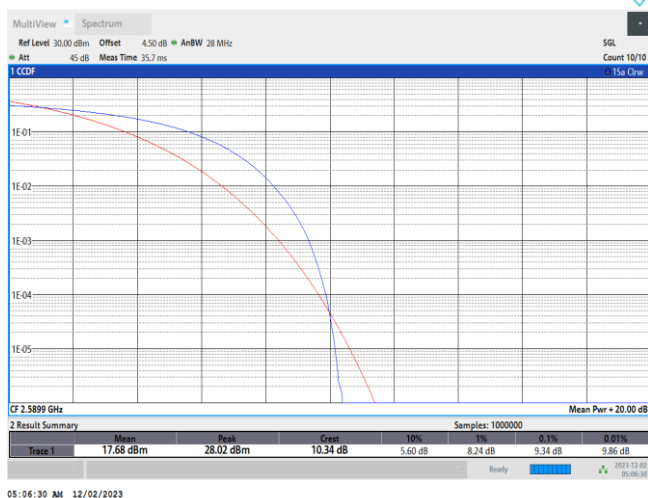
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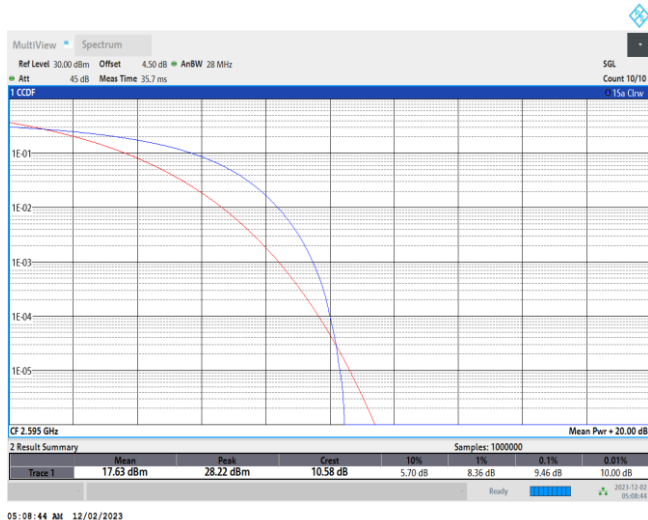
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Test Graphs

38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-100RB#0-100RB#0



38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-100RB#0-100RB#0

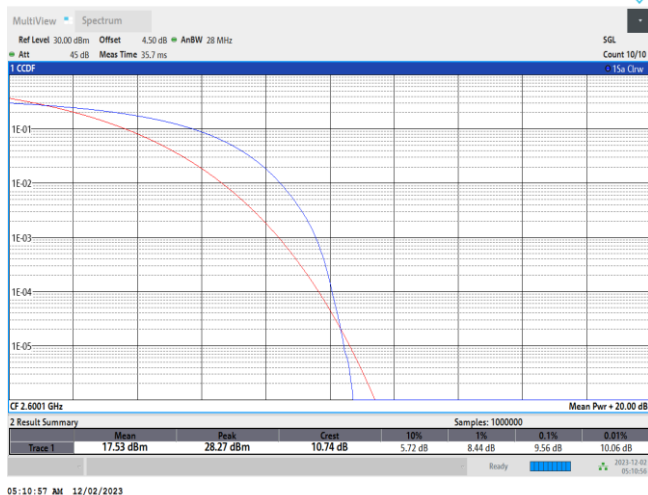


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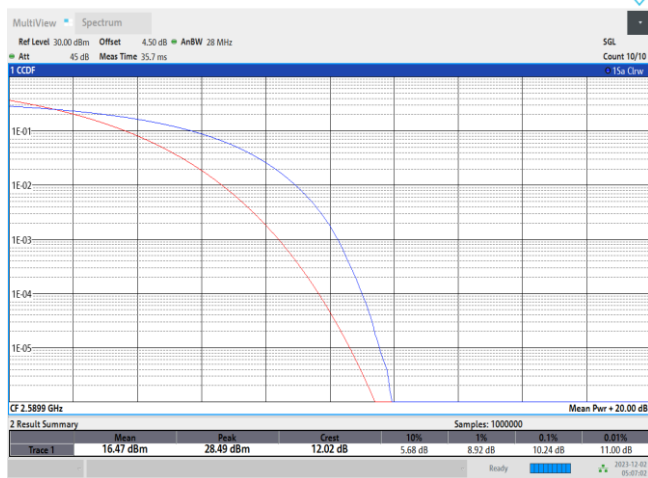
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-100RB#0-100RB#0



05:10:57 AM 12/02/2023

38-38-20MHz-20MHz-16QAM-16QAM-37850-38048-100RB#0-100RB#0



05:07:02 AM 12/02/2023

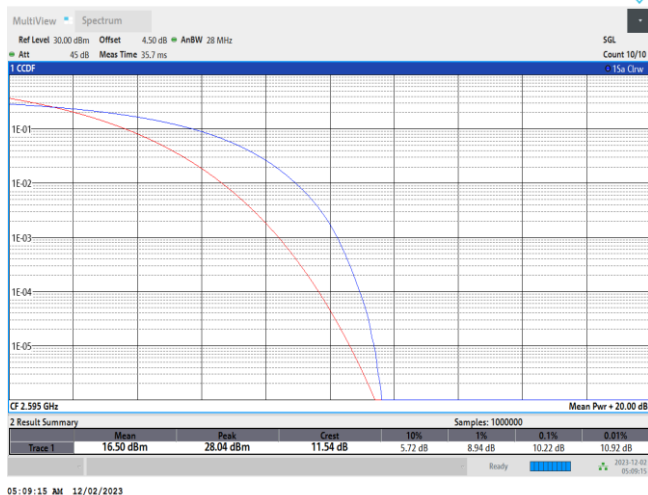


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38-38-20MHz-20MHz-16QAM-16QAM-37901-38099-100RB#0-100RB#0



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38-38-20MHz-20MHz-16QAM-16QAM-37952-38150-100RB#0-100RB#0



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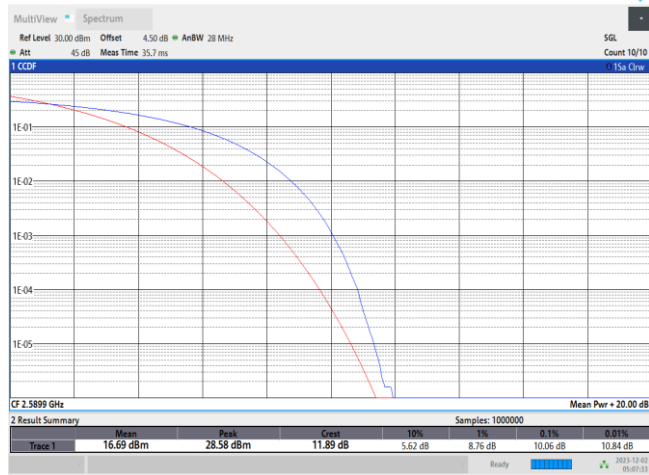


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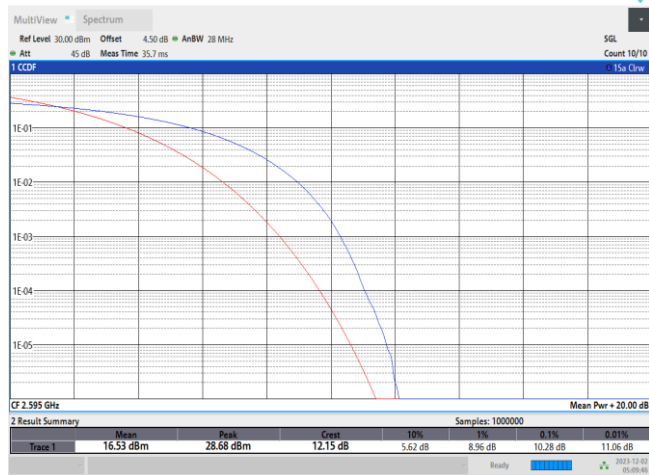
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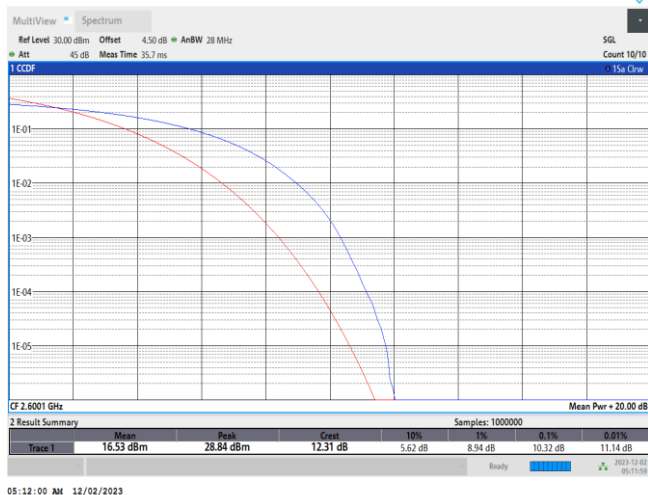
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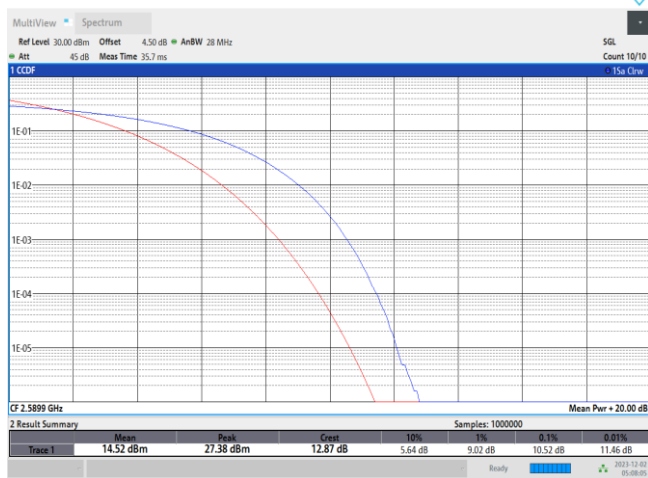


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05:12:00 AM 12/02/2023

38-38-20MHz-20MHz-256QAM-256QAM-37850-38048-100RB#0-100RB#0



05:08:05 AM 12/02/2023

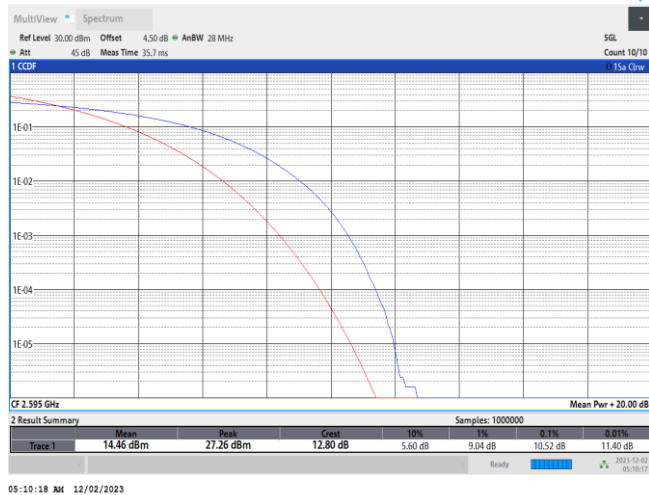


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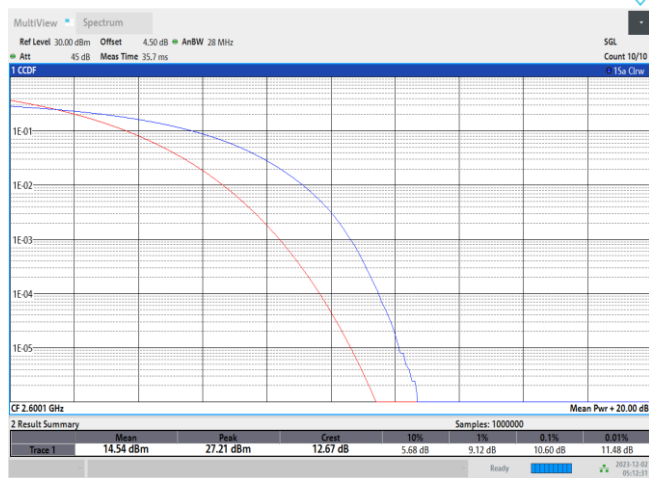
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38-38-20MHz-20MHz-256QAM-256QAM-37901-38099-100RB#0-100RB#0



05:10:18 AM 12/02/2023

38-38-20MHz-20MHz-256QAM-256QAM-37952-38150-100RB#0-100RB#0



05:12:31 AM 12/02/2023



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	28.208	30.24	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	28.212	30.18	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	28.178	30.06	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	75RB#0-75RB#0	28.162	30.06	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	37.403	39.92	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	37.539	40.40	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	37.525	40.40	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	37.502	40.40	PASS



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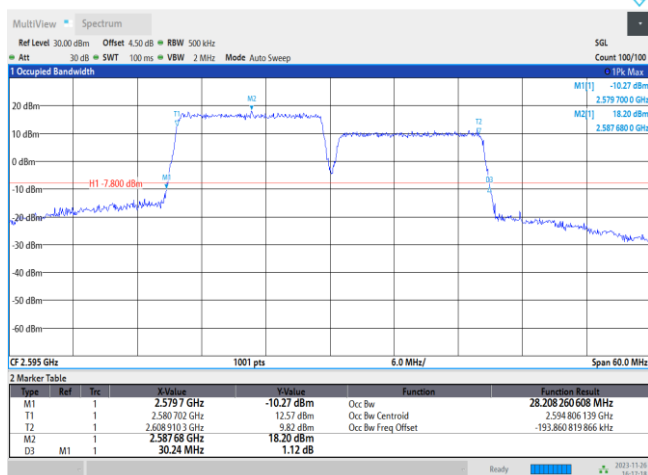
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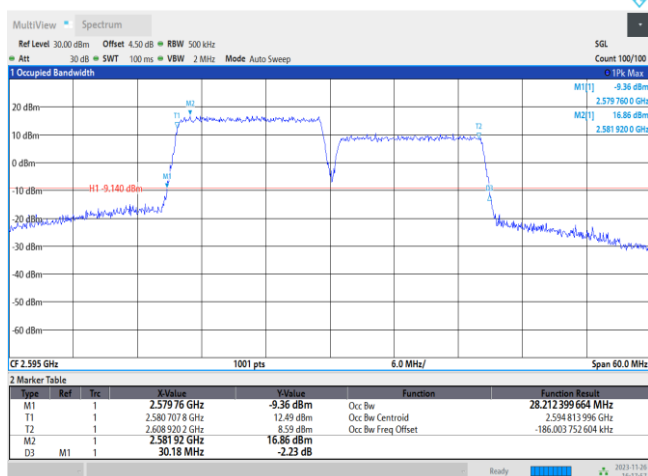
Member of the SGS Group (SGS SA)

Test Graphs

38-38-15MHz-15MHz-QPSK-QPSK-37925-38075-75RB#0-75RB#0



38-38-15MHz-15MHz-16QAM-16QAM-37925-38075-75RB#0-75RB#0

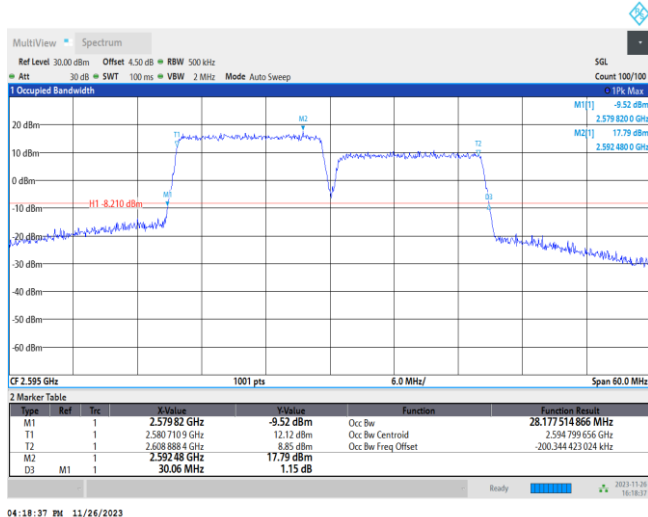


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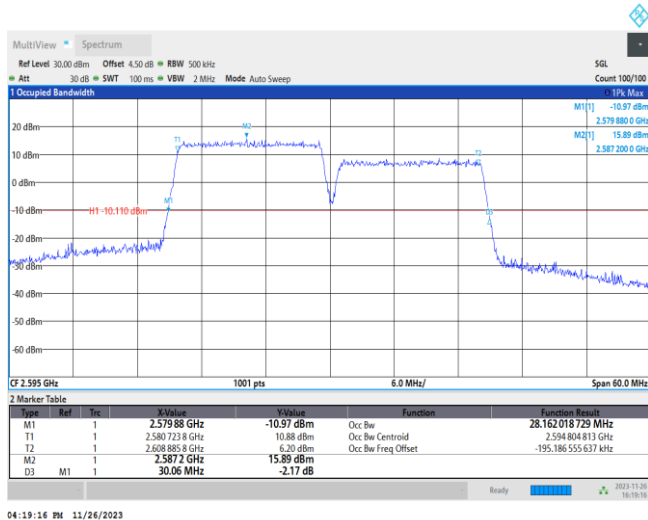
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38-38-15MHz-15MHz-64QAM-64QAM-37925-38075-75RB#0-75RB#0



38-38-15MHz-15MHz-256QAM-256QAM-37925-38075-75RB#0-75RB#0

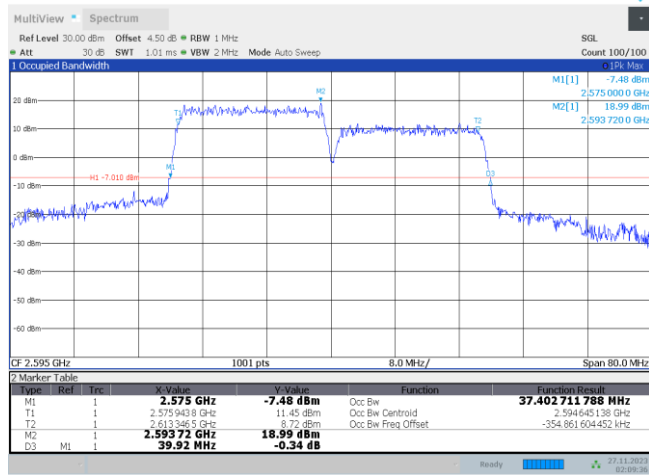


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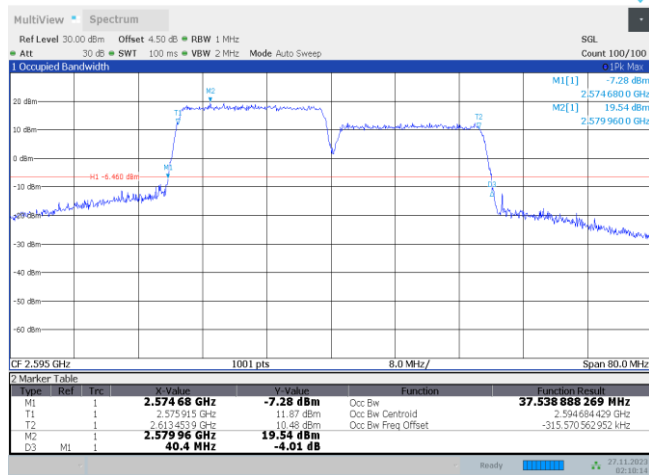
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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-100RB#0-100RB#0



02:09:36 27.11.2023

38-38-20MHz-20MHz-16QAM-16QAM-37901-38099-100RB#0-100RB#0



02:10:14 27.11.2023

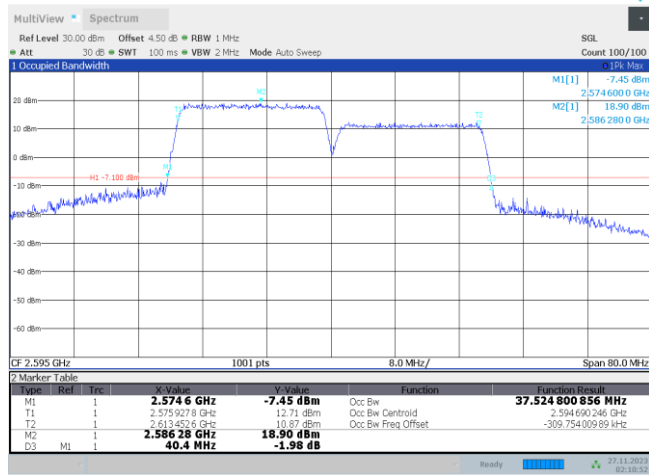


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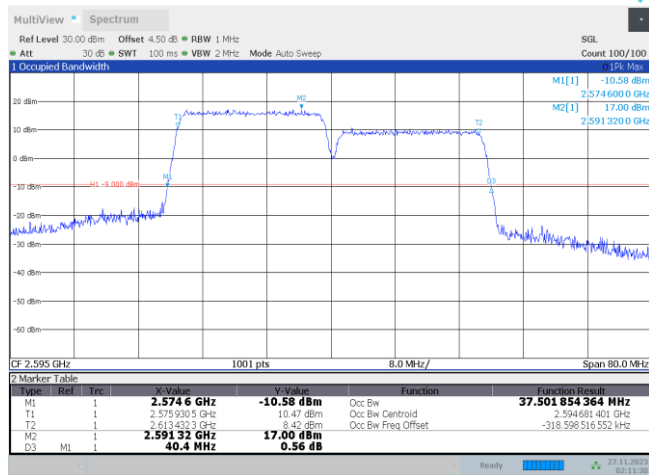
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38-38-20MHz-20MHz-64QAM-64QAM-37901-38099-100RB#0-100RB#0



02:10:53 27.11.2023

38-38-20MHz-20MHz-256QAM-256QAM-37901-38099-100RB#0-100RB#0



02:11:31 27.11.2023



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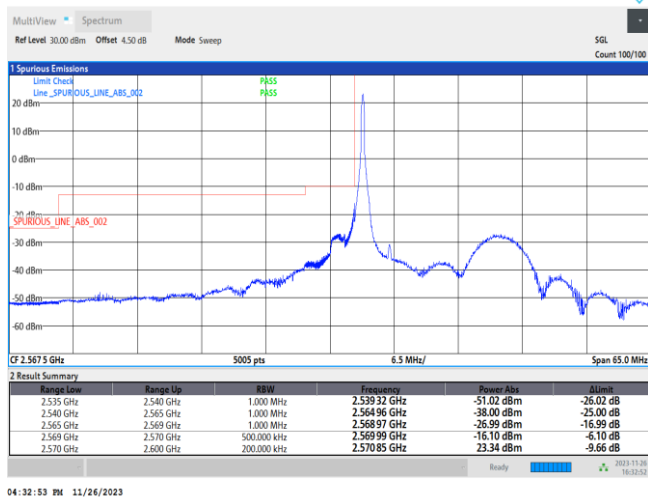
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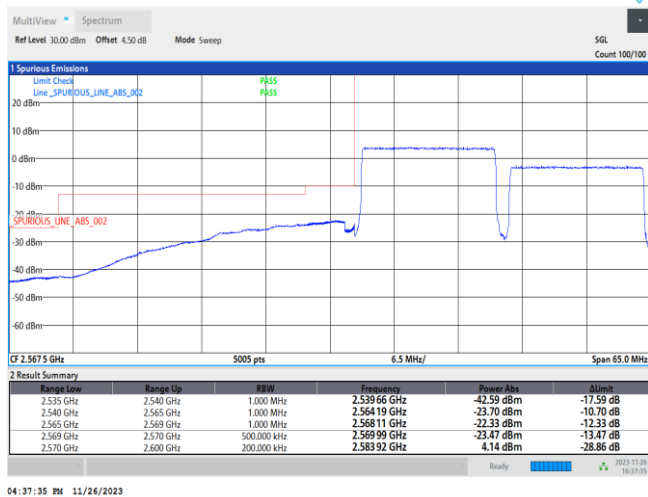
### Band Edge

### Test Graphs

38-38-15MHz-15MHz-QPSK-QPSK-37825-37975-1RB#0-0RB#0



38-38-15MHz-15MHz-QPSK-QPSK-37825-37975-75RB#0-75RB#0



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38-38-15MHz-15MHz-QPSK-QPSK-38025-38175-0RB#0-1RB#74



04:42:38 PM 11/26/2023

38-38-15MHz-15MHz-QPSK-QPSK-38025-38175-75RB#0-75RB#0



04:47:20 PM 11/26/2023

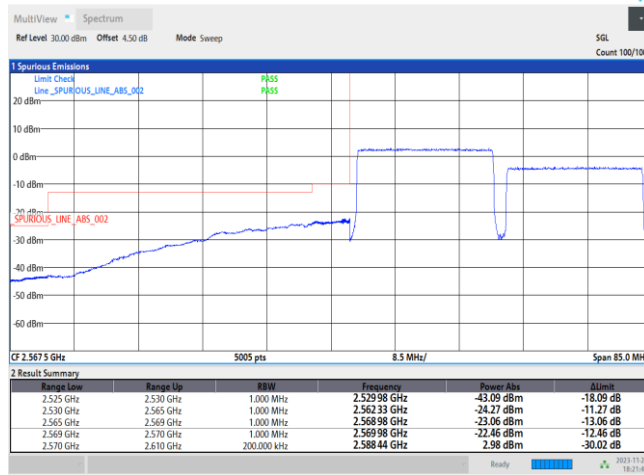


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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0



06:17:01 PM 11/26/2023

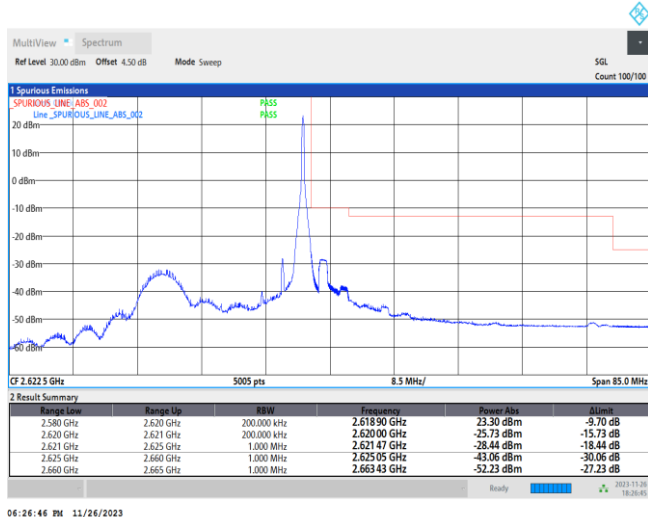


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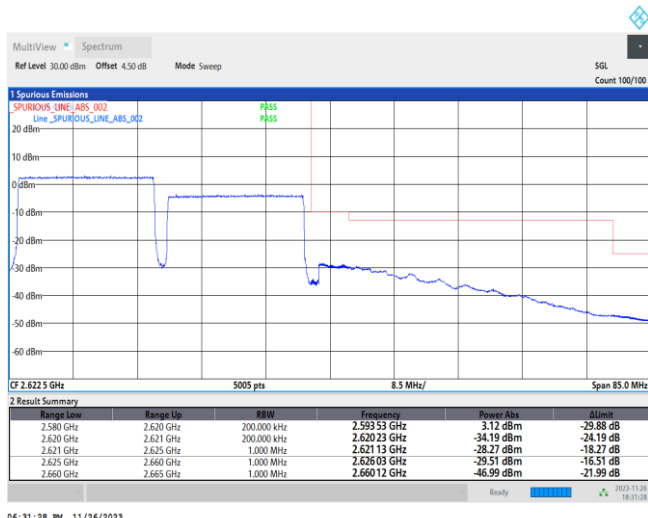
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-0RB#0-1RB#99



06:26:46 PM 11/26/2023

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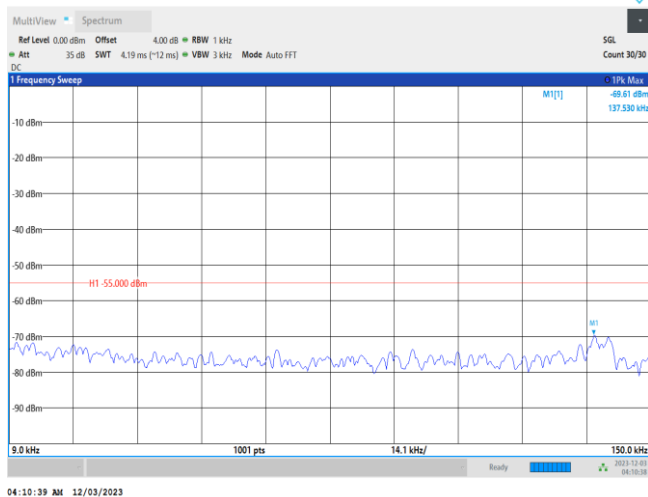
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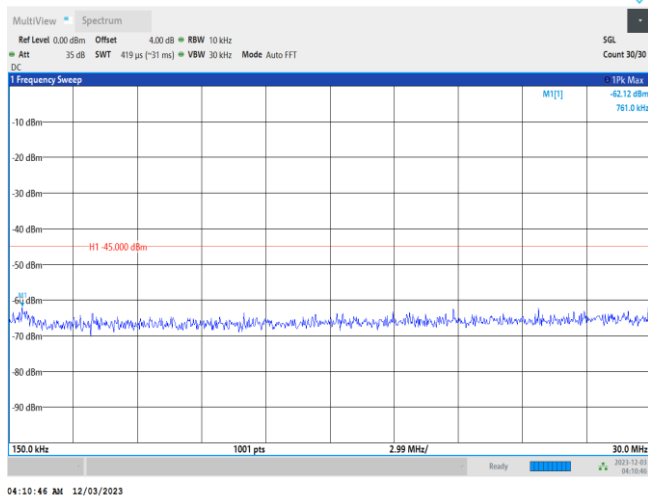
## Conducted Spurious Emission

### Test Graphs

38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-0.009~0.15MHz



38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-0.15~30MHz



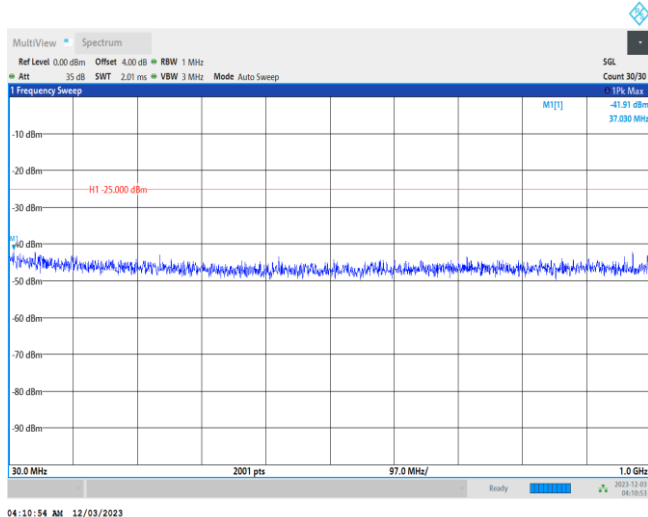
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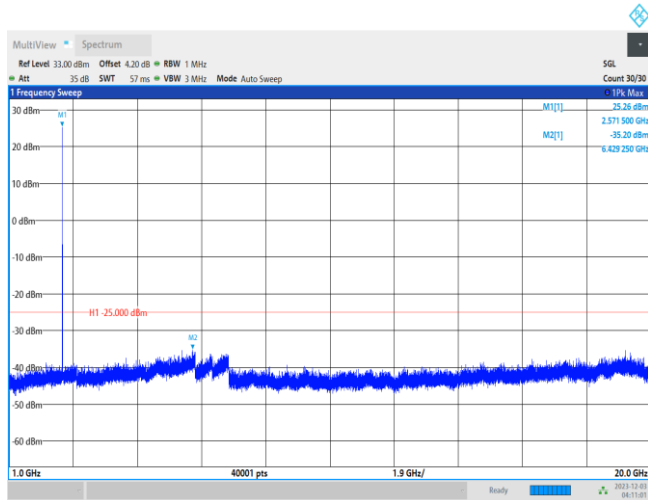
Member of the SGS Group (SGS SA)

38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-30~1000MHz



04:10:54 AM 12/03/2023

38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-1000~20000MHz



04:11:02 AM 12/03/2023

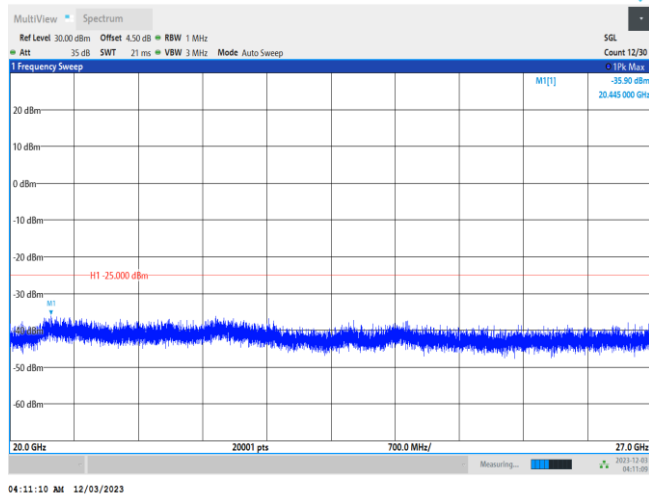


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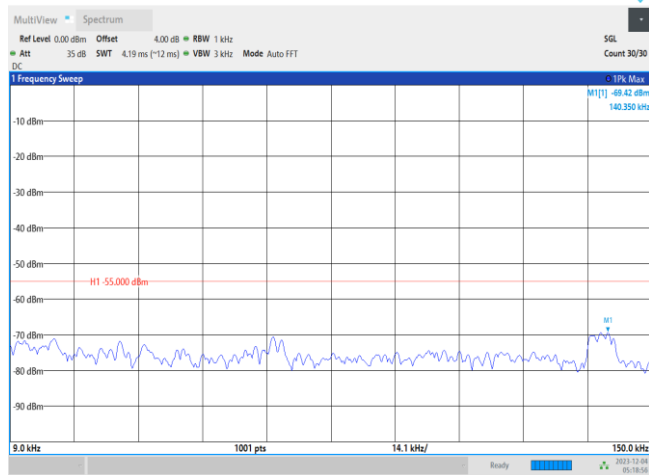
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-20000~27000MHz



04:11:10 AM 12/03/2023

38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-0.009~0.15MHz



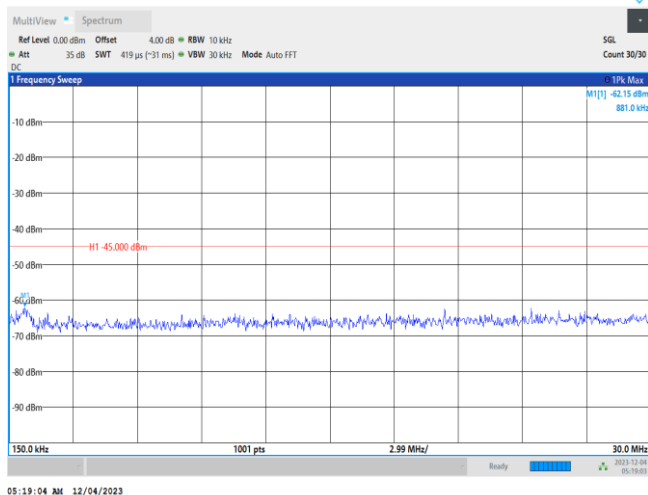
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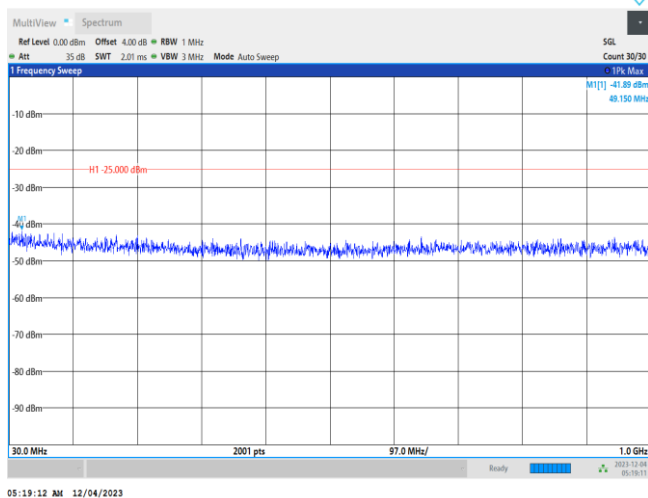
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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-0.15~30MHz



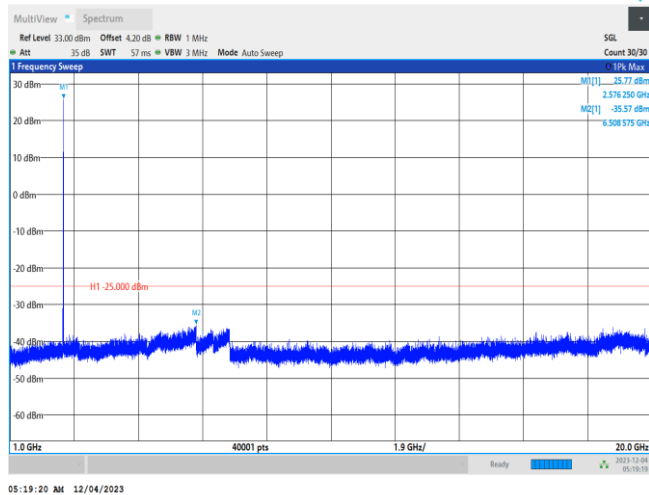
38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-30~1000MHz



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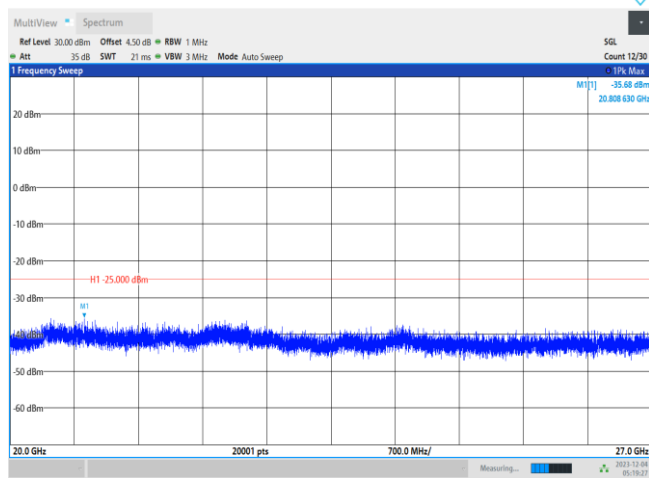
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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-1000~20000MHz



05:19:20 AM 12/04/2023

38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-20000~27000MHz



05:19:28 AM 12/04/2023



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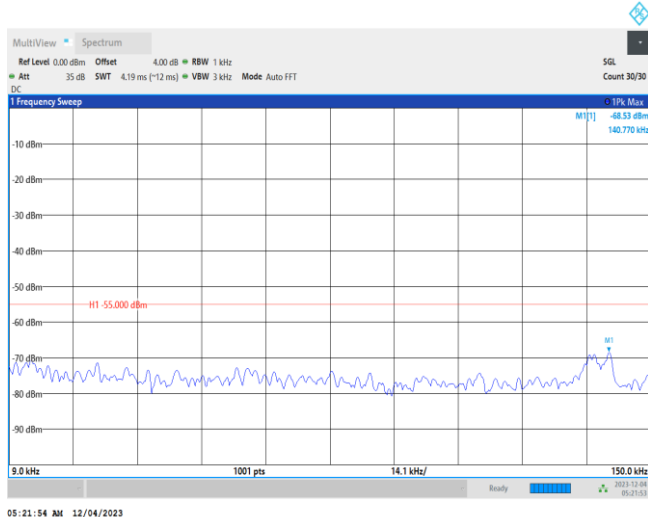
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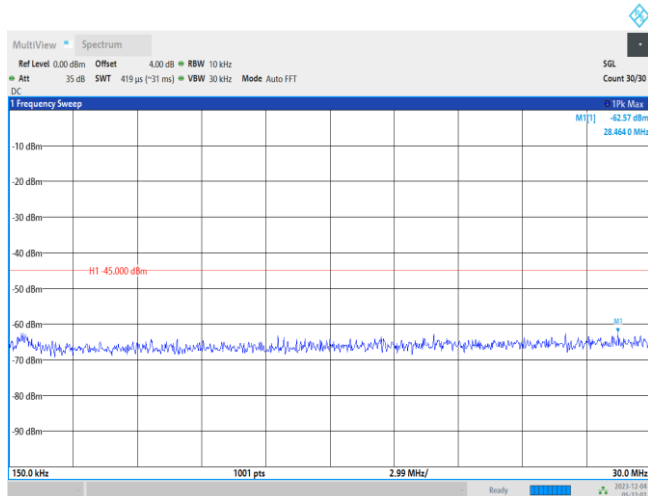


38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-0.009~0.15MHz



05:21:54 AM 12/04/2023

38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-0.15~30MHz



05:22:01 AM 12/04/2023

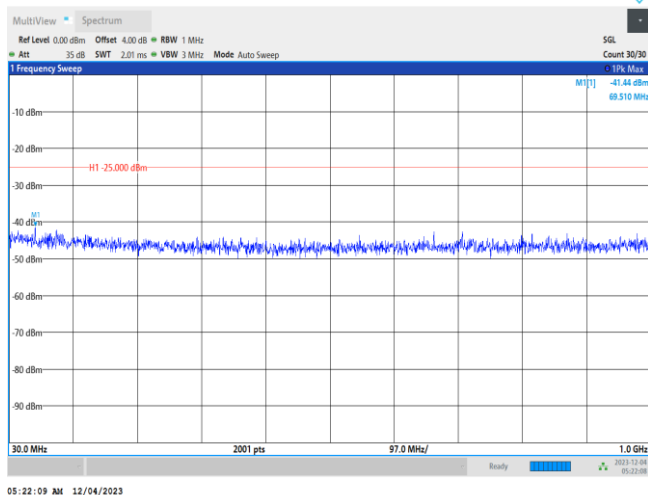


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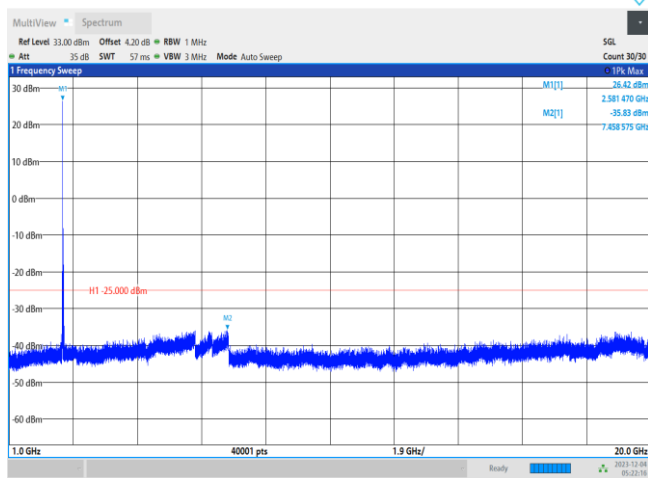
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-30~1000MHz



05:22:09 AM 12/04/2023

38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-1000~20000MHz



05:22:17 AM 12/04/2023

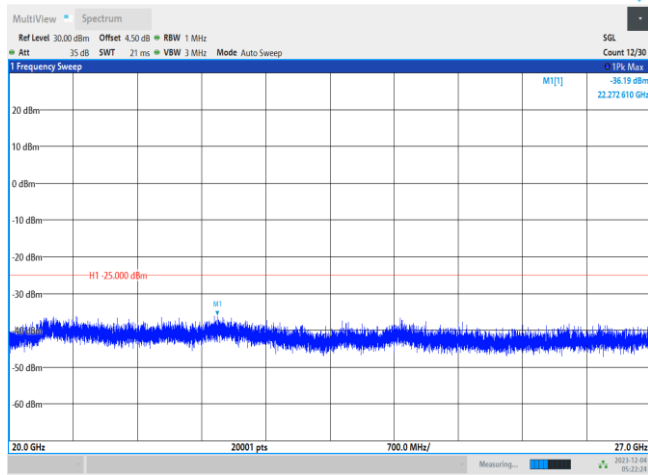


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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-20000~27000MHz



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### Field Strength of Spurious Radiation

Test Band = LTE Band38\_CA\_TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5142.1800	38.98	-45.33	31.74	-69.87	-25.00	44.87	Horizontal
2	7713.2700	37.57	-43.01	36.69	-64.02	-25.00	39.02	Horizontal
3	10284.3600	31.04	-39.15	38.34	-65.03	-25.00	40.03	Horizontal
4	12855.4500	27.05	-36.99	39.06	-66.14	-25.00	41.14	Horizontal
5	15426.5400	24.79	-34.00	40.40	-64.06	-25.00	39.06	Horizontal
6	17997.6300	26.80	-34.58	46.79	-56.25	-25.00	31.25	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5142.1800	40.45	-45.33	31.74	-68.40	-25.00	43.40	Vertical
2	7713.2700	37.59	-43.01	36.69	-64.00	-25.00	39.00	Vertical
3	10284.3600	31.01	-39.15	38.34	-65.06	-25.00	40.06	Vertical
4	12855.4500	26.25	-36.99	39.06	-66.94	-25.00	41.94	Vertical
5	15426.5400	24.95	-34.00	40.40	-63.90	-25.00	38.90	Vertical
6	17997.6300	27.73	-34.58	46.79	-55.32	-25.00	30.32	Vertical



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**Test Band = LTE Band38\_CA\_TM1**

**Test Channel = Mid**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5152.3800	39.08	-45.32	31.77	-69.74	-25.00	44.74	Horizontal
2	7728.5700	36.72	-42.89	36.69	-64.73	-25.00	39.73	Horizontal
3	10304.7600	30.28	-39.09	38.35	-65.71	-25.00	40.71	Horizontal
4	12880.9500	25.88	-37.06	39.06	-67.37	-25.00	42.37	Horizontal
5	15457.1400	25.08	-34.57	40.34	-64.41	-25.00	39.41	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5152.3800	39.66	-45.32	31.77	-69.16	-25.00	44.16	Vertical
2	7728.5700	37.40	-42.89	36.69	-64.05	-25.00	39.05	Vertical
3	10304.7600	29.82	-39.09	38.35	-66.17	-25.00	41.17	Vertical
4	12880.9500	26.06	-37.06	39.06	-67.19	-25.00	42.19	Vertical
5	15457.1400	24.54	-34.57	40.34	-64.95	-25.00	39.95	Vertical



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**Test Band = LTE Band38\_CA\_TM1**

**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5162.5800	38.71	-45.31	31.79	-70.07	-25.00	45.07	Horizontal
2	7743.8700	37.54	-42.76	36.70	-63.79	-25.00	38.79	Horizontal
3	10325.1600	30.71	-39.07	38.36	-65.26	-25.00	40.26	Horizontal
4	12906.4500	26.29	-37.12	39.07	-67.02	-25.00	42.02	Horizontal
5	15487.7400	23.50	-35.14	40.28	-66.63	-25.00	41.63	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5162.5800	39.70	-45.31	31.79	-69.08	-25.00	44.08	Vertical
2	7743.8700	36.83	-42.76	36.70	-64.50	-25.00	39.50	Vertical
3	10325.1600	30.86	-39.07	38.36	-65.11	-25.00	40.11	Vertical
4	12906.4500	26.42	-37.12	39.07	-66.89	-25.00	41.89	Vertical
5	15487.7400	24.05	-35.14	40.28	-66.08	-25.00	41.08	Vertical

**Remark:**

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VH	NT	-0.90	-0.000348	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VL	NT	-0.90	-0.000348	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VN	NT	-0.40	-0.000155	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-30	0.90	0.000348	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-20	0.80	0.000309	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-10	-0.60	-0.000232	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	0	-1.40	-0.000542	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	10	0.50	0.000193	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	20	0.50	0.000193	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	30	1.20	0.000464	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	40	-1.60	-0.000431	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	50	-1.20	-0.000464	PASS

---End of Attachment---



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