

Report No.: SEWA2307000102RG01

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# Appendix B.14

## LTE Band 38



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	24.04	26.24	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	23.91	26.11	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.93	26.13	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	22.94	25.14	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	24.02	26.22	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	23.86	26.06	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.95	26.15	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.91	25.11	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.91	26.11	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	23.88	26.08	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	23.83	26.03	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	22.92	25.12	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	23.14	25.34	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	23.03	25.23	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	23.11	25.31	33.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	21.96	24.16	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	23.18	25.38	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	23.11	25.31	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	23.08	25.28	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	21.90	24.10	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	23.11	25.31	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	23.02	25.22	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	23.01	25.21	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.96	24.16	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	24.24	26.44	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	23.90	26.10	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	24.25	26.45	33.00	PASS



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Band38	10MHz	QPSK	37800	50RB#0	22.93	25.13	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	24.26	26.46	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	23.93	26.13	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	24.25	26.45	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	22.97	25.17	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	24.24	26.44	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	23.85	26.05	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	24.21	26.41	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	22.95	25.15	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	23.39	25.59	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.97	25.17	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	23.22	25.42	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.94	24.14	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	23.44	25.64	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.98	25.18	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	23.47	25.67	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	22.01	24.21	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	23.47	25.67	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	23.01	25.21	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	23.31	25.51	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	22.01	24.21	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	24.24	26.44	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	23.91	26.11	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	24.24	26.44	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.97	25.17	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	24.19	26.39	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	23.74	25.94	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	24.13	26.33	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.80	25.00	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	24.06	26.26	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	23.79	25.99	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	24.11	26.31	33.00	PASS



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Band38	15MHz	QPSK	38175	75RB#0	22.85	25.05	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	23.40	25.60	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	23.05	25.25	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	23.32	25.52	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	21.96	24.16	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	23.20	25.40	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.85	25.05	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	23.28	25.48	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.79	23.99	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	23.24	25.44	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.84	25.04	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	23.33	25.53	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.84	24.04	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	24.08	26.28	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	24.01	26.21	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	24.28	26.48	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.94	25.14	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	24.02	26.22	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.95	26.15	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	24.18	26.38	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.84	25.04	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.92	26.12	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.80	26.00	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	24.18	26.38	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.91	25.11	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	23.17	25.37	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	23.00	25.20	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	23.28	25.48	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	22.06	24.26	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	23.22	25.42	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.91	25.11	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	23.27	25.47	33.00	PASS



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Band38	20MHz	16QAM	38150	1RB#0	23.12	25.32	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.97	25.17	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	23.32	25.52	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.95	24.15	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
Band38	20MHz	QPSK	37850	100RB#0	7.38	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	7.44	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	7.48	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	8.10	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	8.08	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	8.22	13	PASS



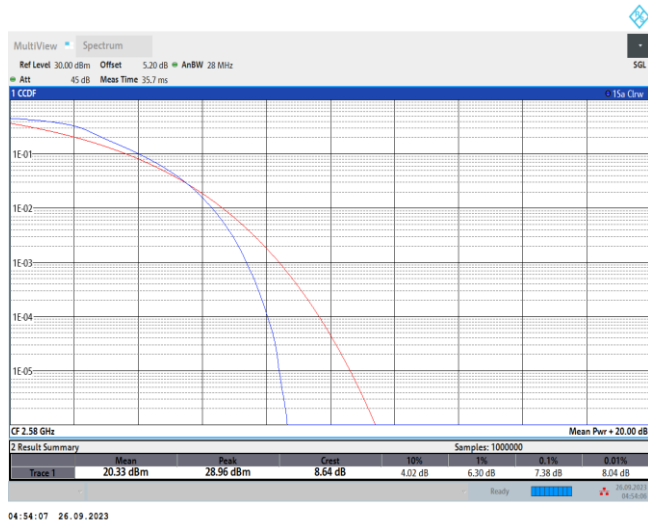
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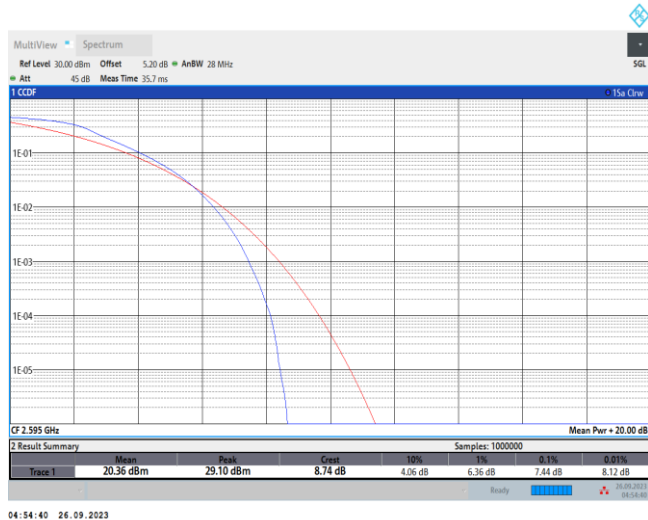
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Test Graphs

Band38-20MHz-QPSK-37850-100RB#0



Band38-20MHz-QPSK-38000-100RB#0

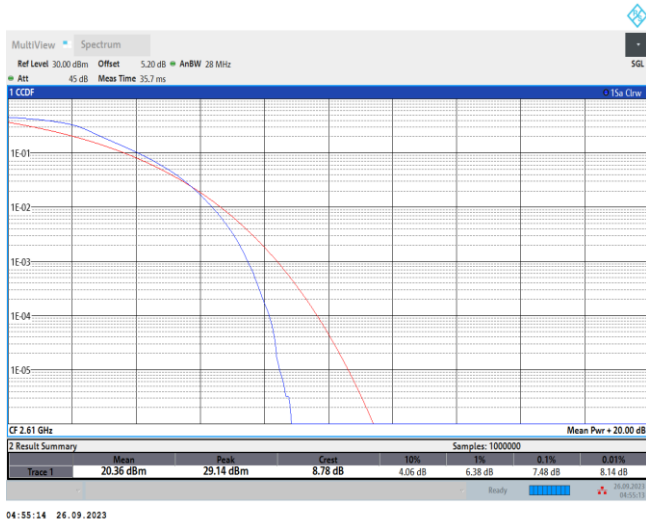


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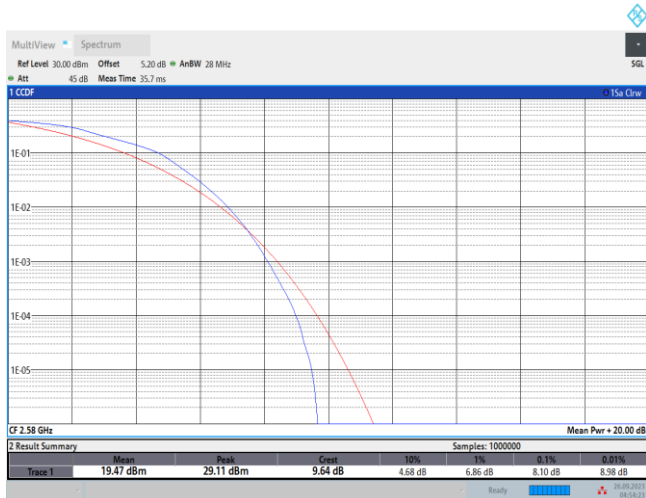
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Band38-20MHz-QPSK-38150-100RB#0



04:55:14 26.09.2023

Band38-20MHz-16QAM-37850-100RB#0



04:54:23 26.09.2023

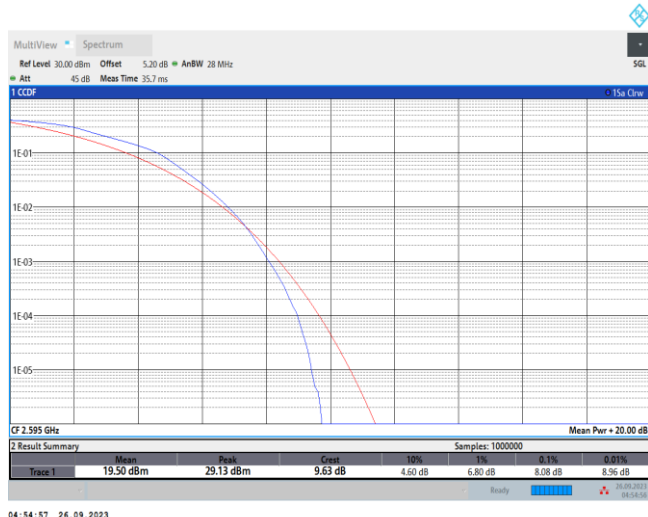


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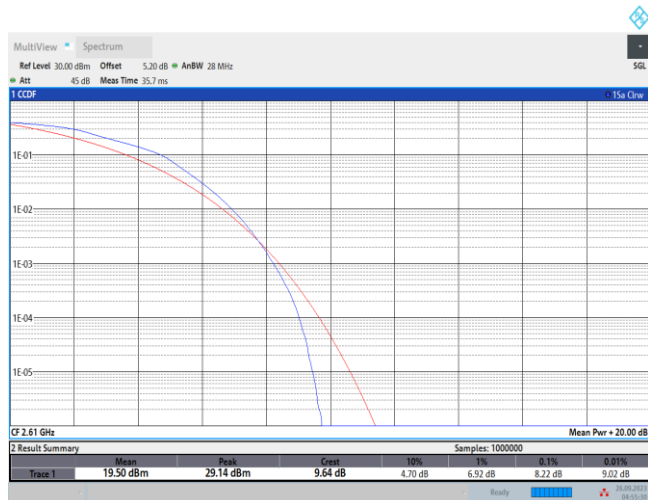


Band38-20MHz-16QAM-38000-100RB#0



04:54:57 26.09.2023

Band38-20MHz-16QAM-38150-100RB#0



04:55:31 26.09.2023



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	38000	25RB#0	4.473	4.90	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.469	4.90	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.921	9.70	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.919	9.78	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.48	15.63	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.467	15.39	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.906	19.68	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.886	19.28	PASS



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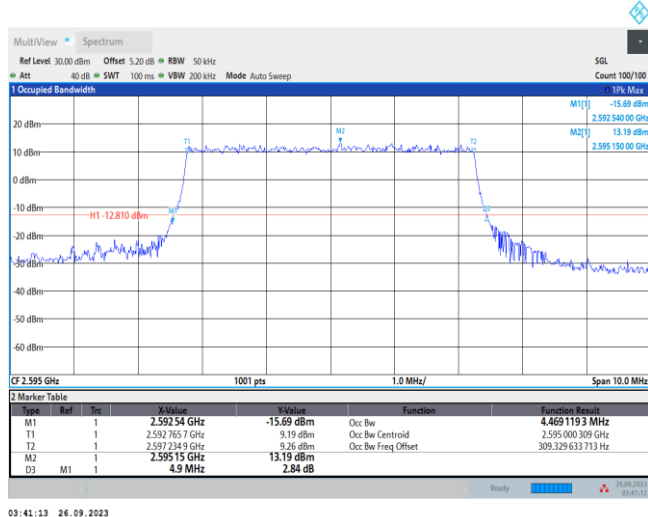
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Test Graphs

Band38-5MHz-QPSK-38000-25RB#0



Band38-5MHz-16QAM-38000-25RB#0

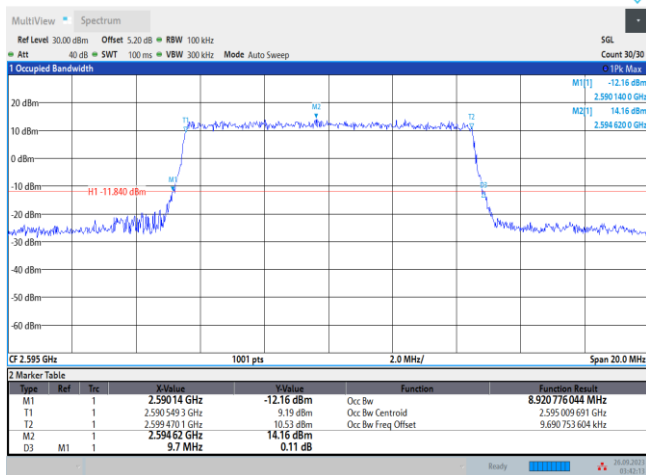


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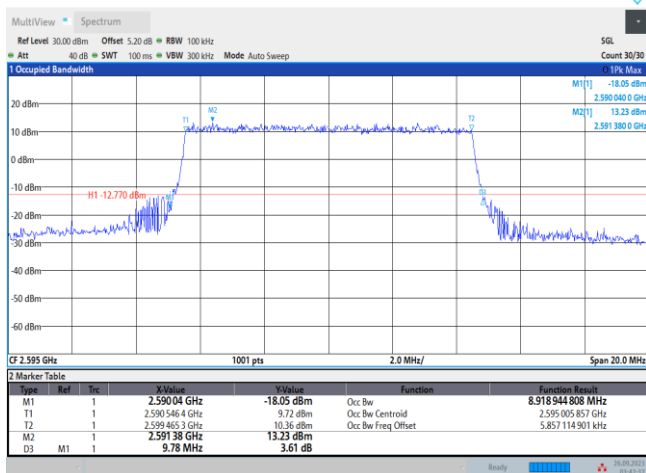
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Band38-10MHz-QPSK-38000-50RB#0



03:42:13 26.09.2023

Band38-10MHz-16QAM-38000-50RB#0



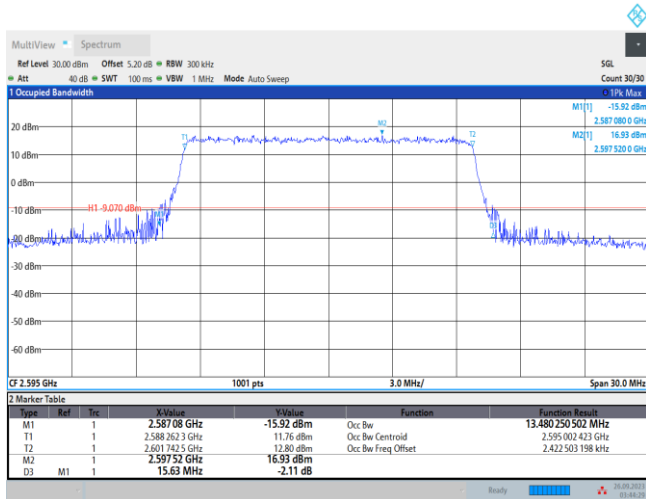
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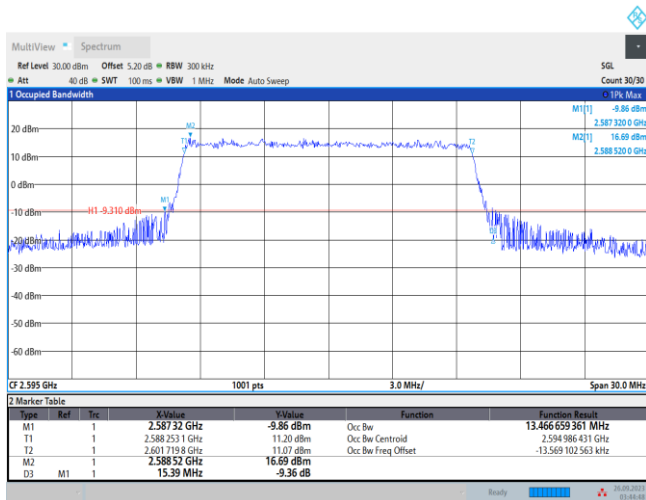
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Band38-15MHz-QPSK-38000-75RB#0



03:44:29 26.09.2023

Band38-15MHz-16QAM-38000-75RB#0



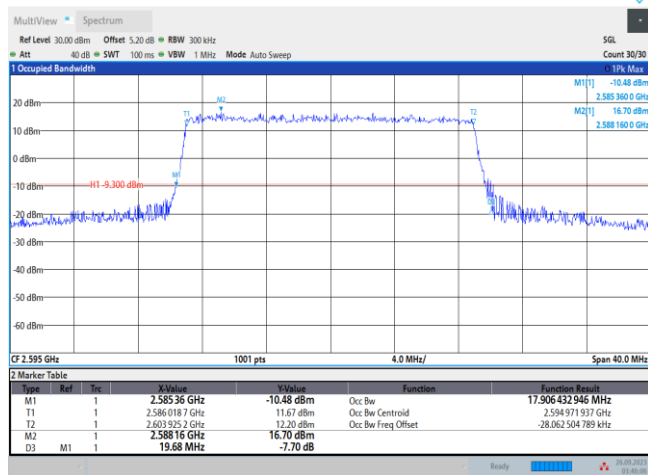
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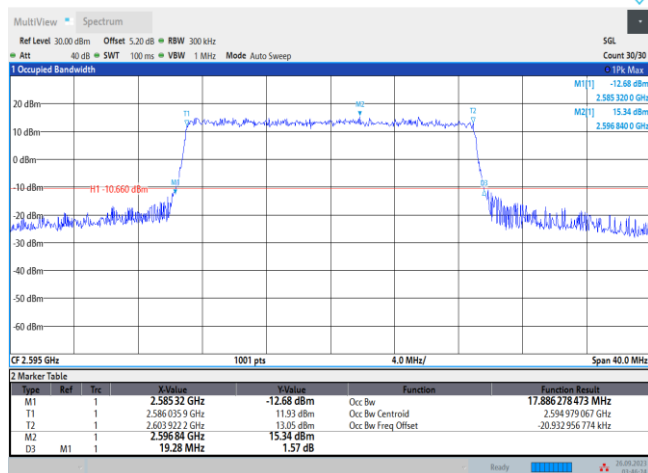
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Band38-20MHz-QPSK-38000-100RB#0



03:46:06 26.09.2023

Band38-20MHz-16QAM-38000-100RB#0



03:46:25 26.09.2023



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## Band Edge

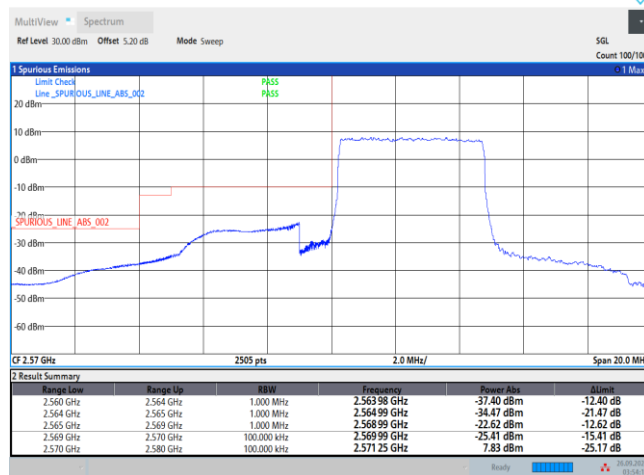
## Test Graphs

Band38-5MHz-QPSK-37775-1RB#0



03:50:40 26.09.2023

Band38-5MHz-QPSK-37775-25RB#0



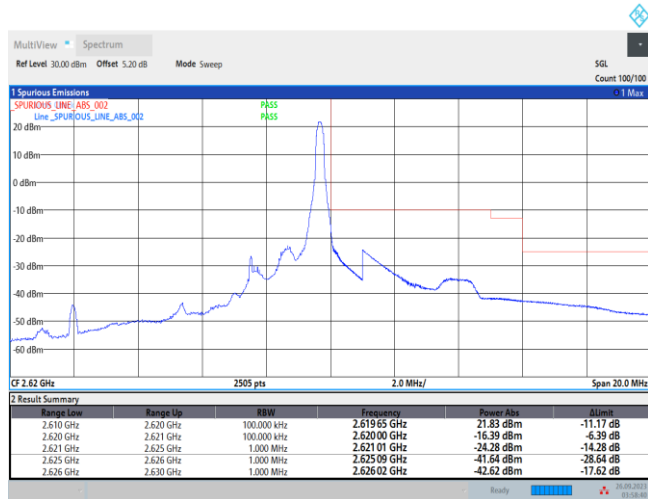
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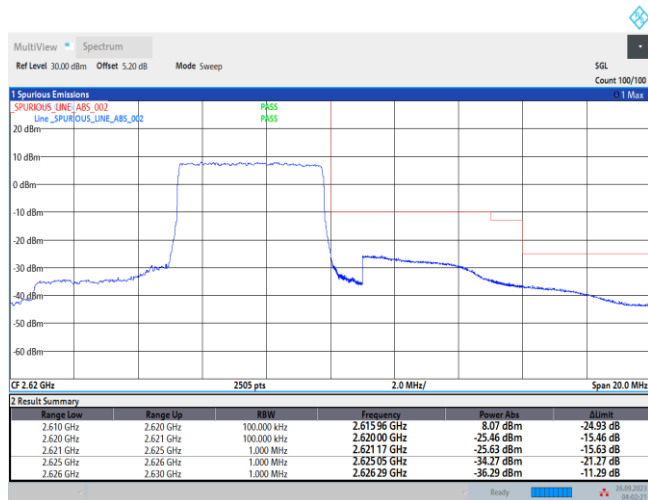
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Band38-5MHz-QPSK-38225-1RB#24



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Band38-5MHz-QPSK-38225-25RB#0



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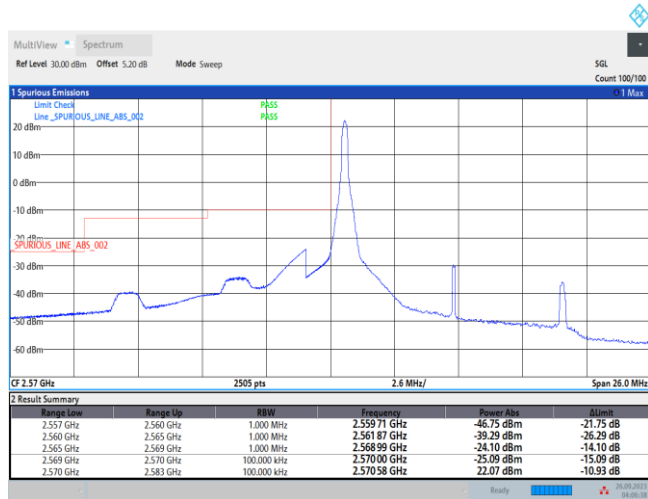


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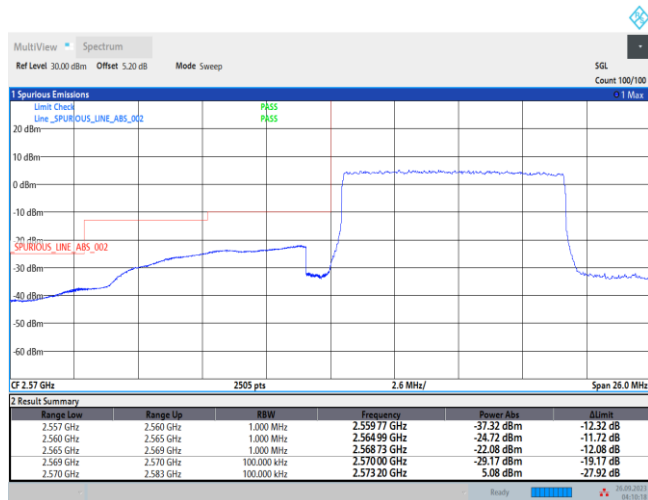


Band38-10MHz-QPSK-37800-1RB#0



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Band38-10MHz-QPSK-37800-50RB#0



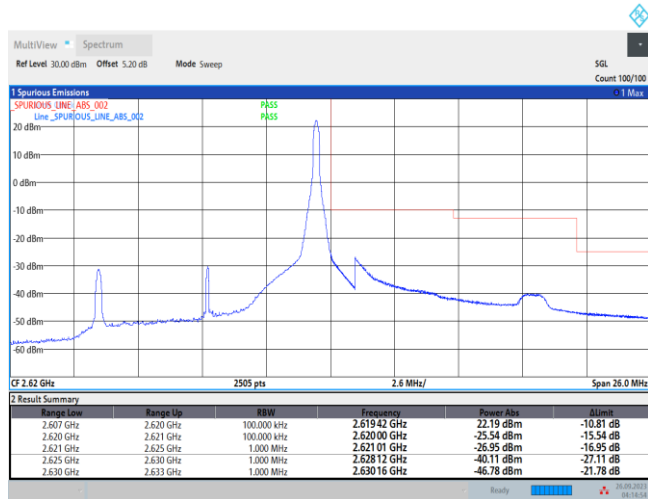
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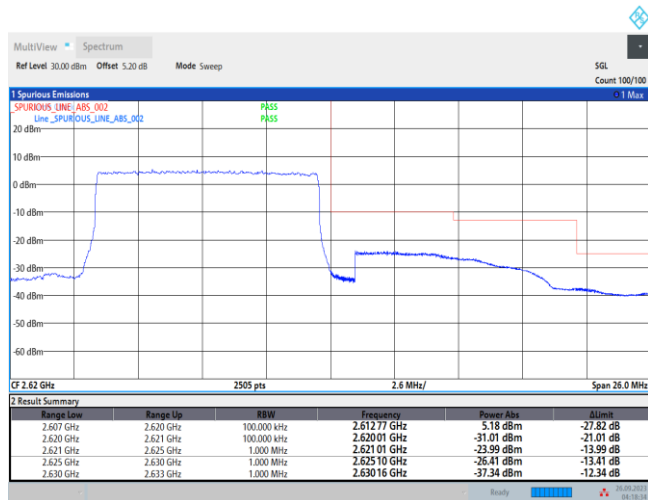
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Band38-10MHz-QPSK-38200-1RB#49



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Band38-10MHz-QPSK-38200-50RB#0



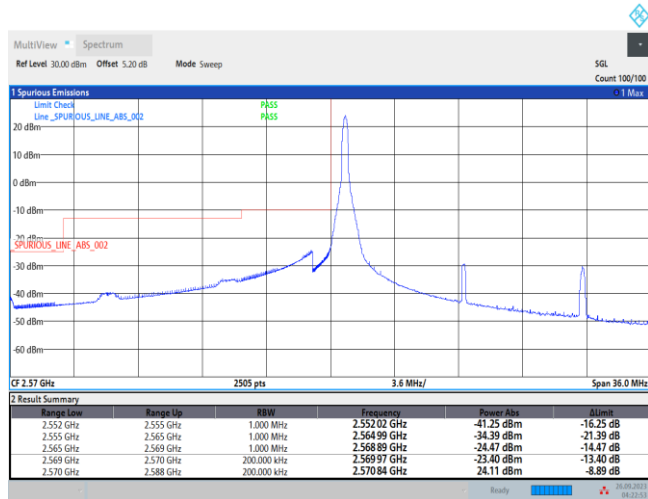
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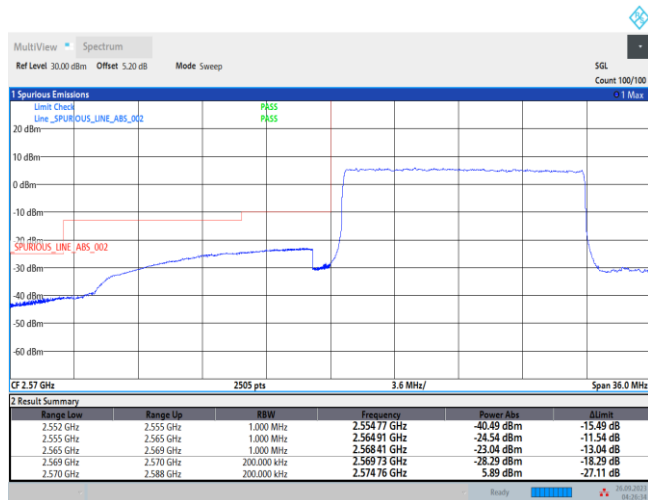
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Band38-15MHz-QPSK-37825-1RB#0



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Band38-15MHz-QPSK-37825-75RB#0

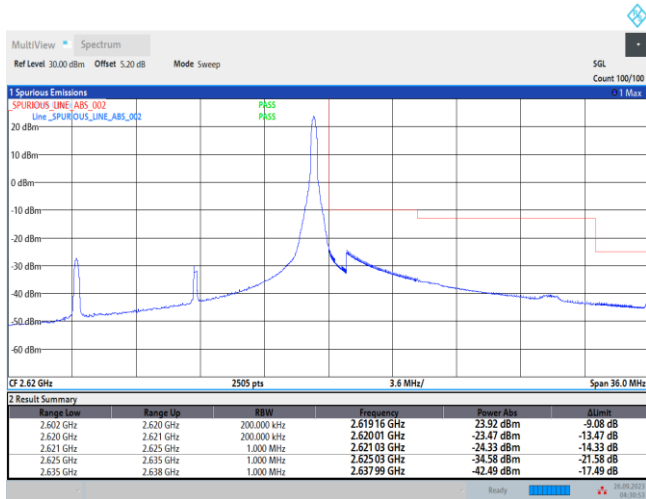


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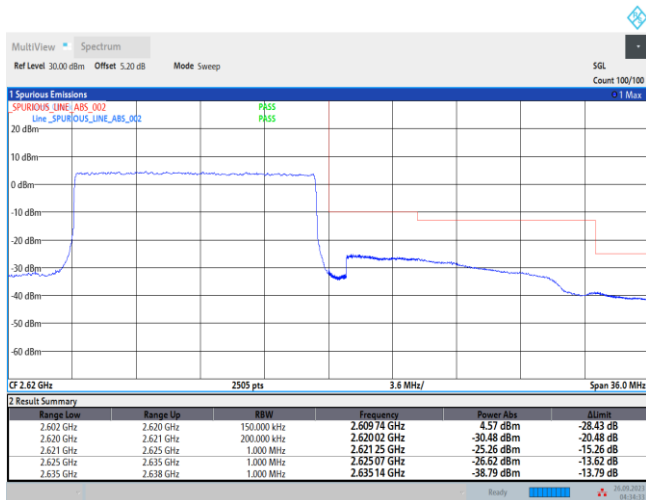
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Band38-15MHz-QPSK-38175-1RB#74



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Band38-15MHz-QPSK-38175-75RB#0



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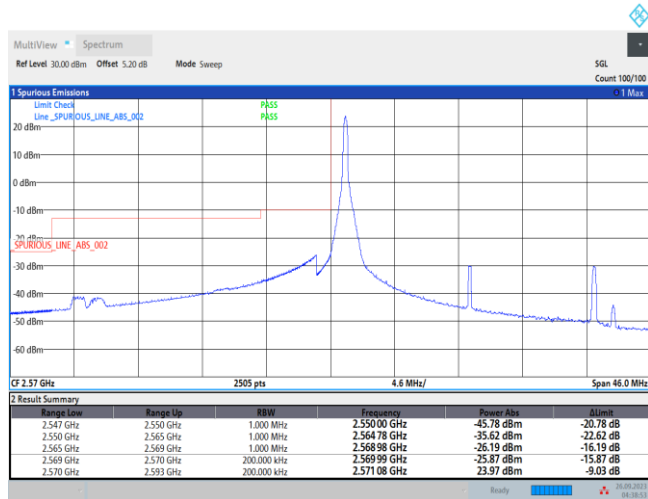


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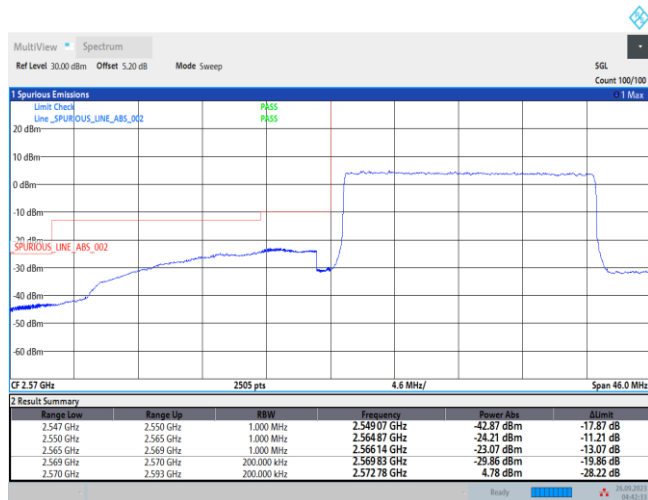
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Band38-20MHz-QPSK-37850-1RB#0



04:38:53 26.09.2023

Band38-20MHz-QPSK-37850-100RB#0



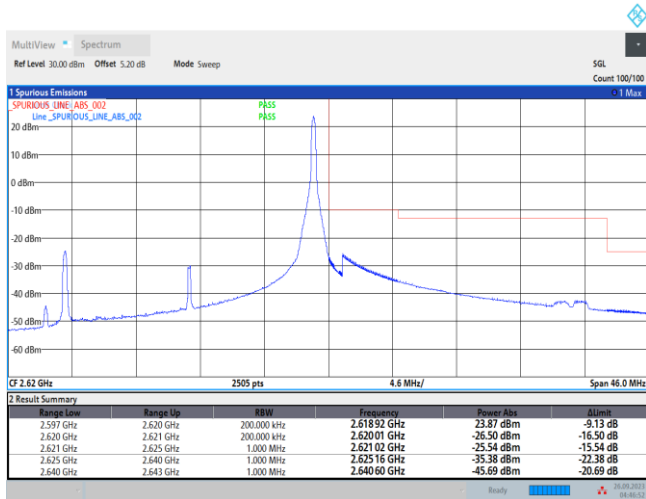
04:42:34 26.09.2023



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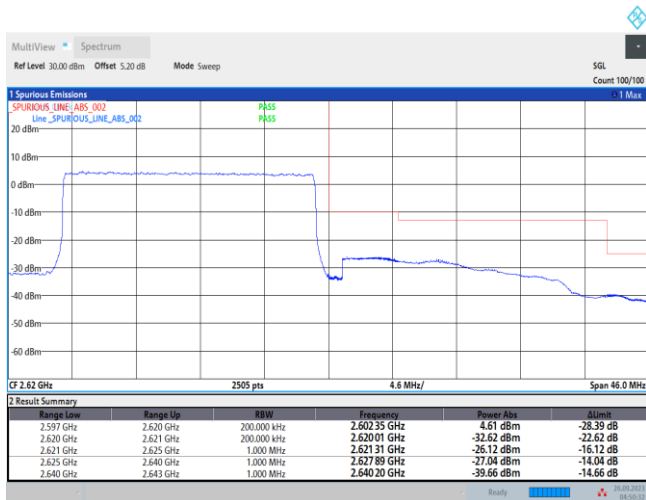
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Band38-20MHz-QPSK-38150-1RB#99



04:46:53 26.09.2023

Band38-20MHz-QPSK-38150-100RB#0



04:50:33 26.09.2023



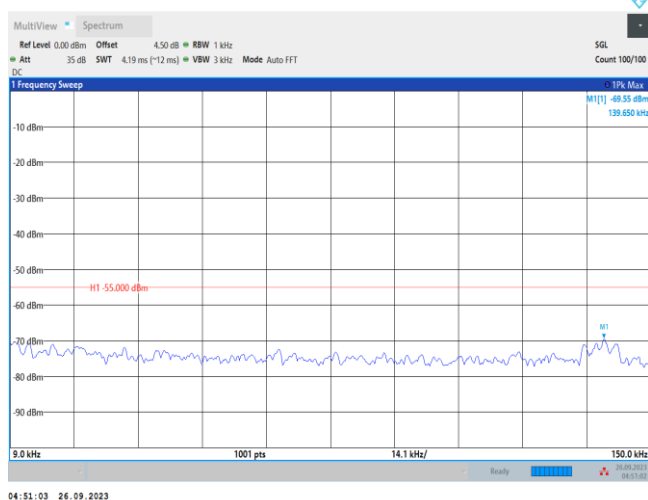
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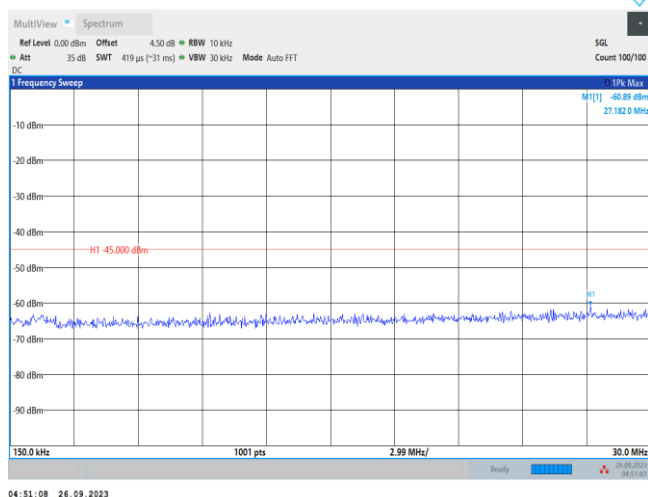
## Conducted Spurious Emission

### Test Graphs

Band38-20MHz-QPSK-37850-1RB#0-Range1:0.009~0.15MHz



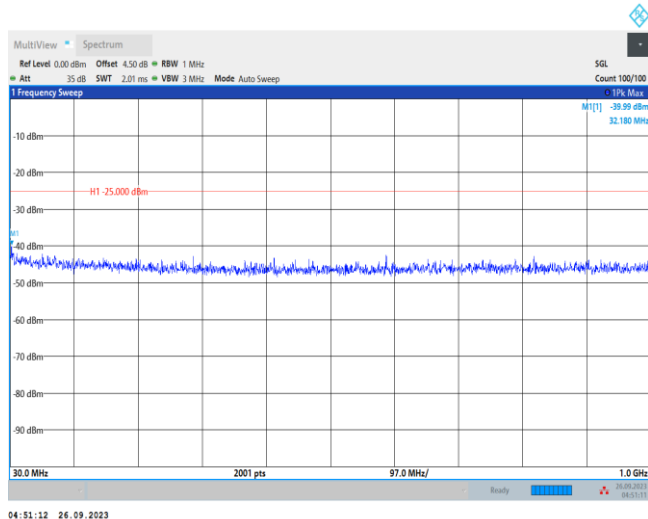
Band38-20MHz-QPSK-37850-1RB#0-Range2:0.15~30MHz



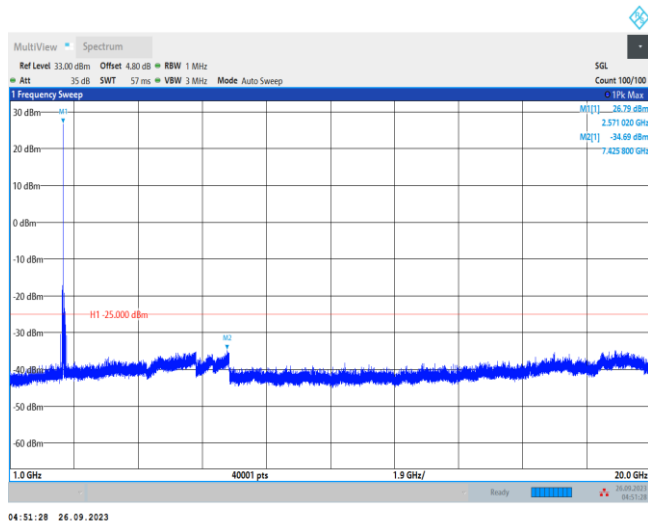
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Band38-20MHz-QPSK-37850-1RB#0-Range3:30~1000MHz



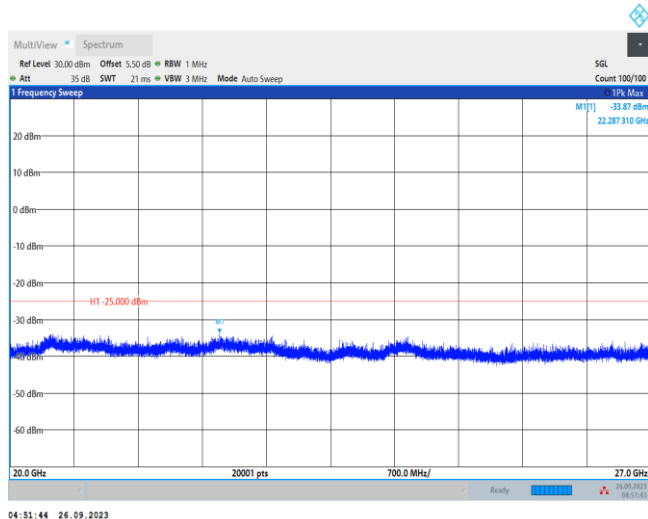
Band38-20MHz-QPSK-37850-1RB#0-Range4:1000~20000MHz



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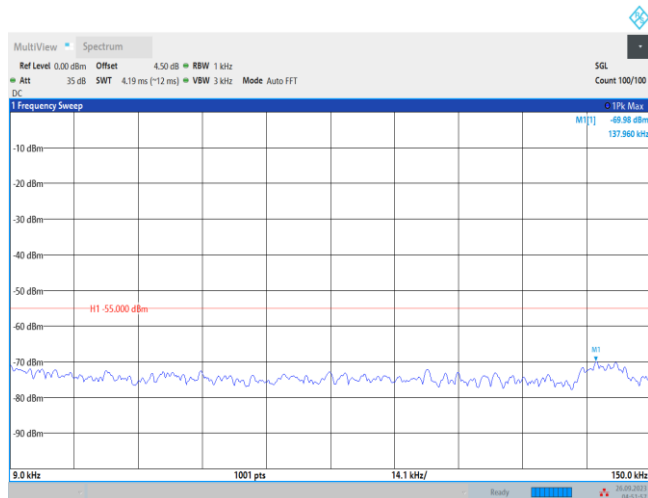


Band38-20MHz-QPSK-37850-1RB#0-Range5:20000~27000MHz



04:51:44 26.09.2023

Band38-20MHz-QPSK-38000-1RB#0-Range1:0.009~0.15MHz



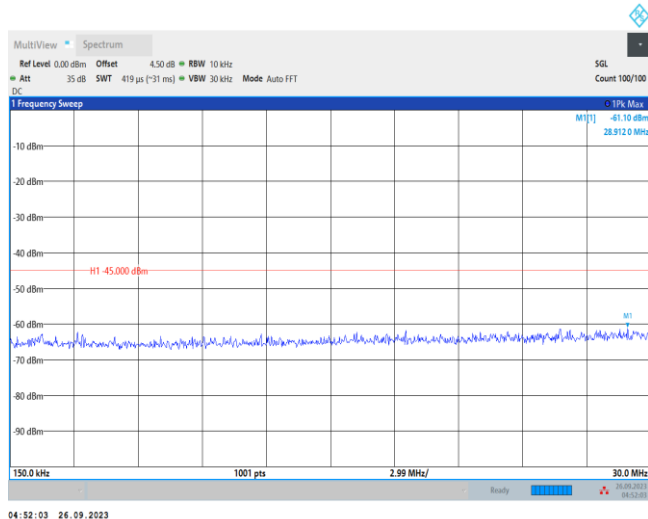
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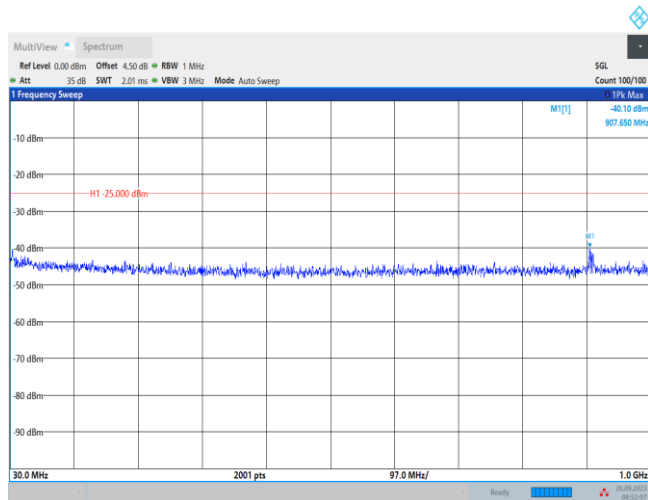
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Band38-20MHz-QPSK-38000-1RB#0-Range2:0.15~30MHz



04:52:03 26.09.2023

Band38-20MHz-QPSK-38000-1RB#0-Range3:30~1000MHz



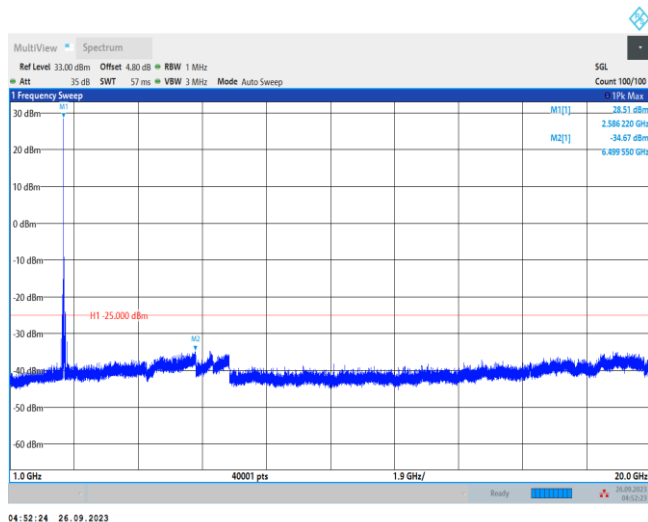
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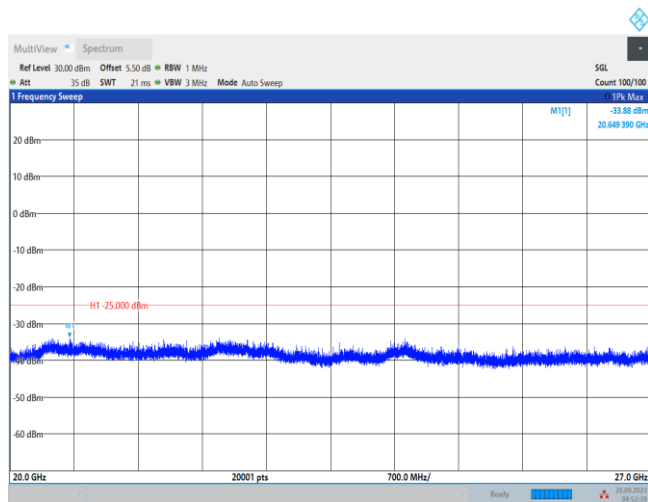
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Band38-20MHz-QPSK-38000-1RB#0-Range4:1000~20000MHz



04:52:24 26.09.2023

Band38-20MHz-QPSK-38000-1RB#0-Range5:20000~27000MHz



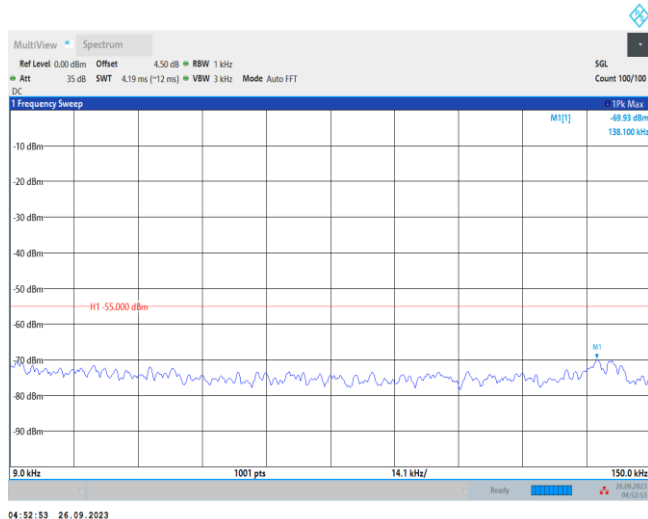
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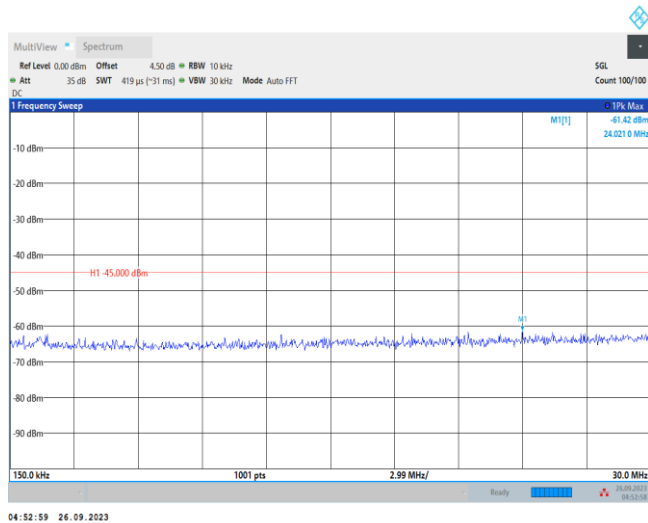
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Band38-20MHz-QPSK-38150-1RB#0-Range1:0.009~0.15MHz



Band38-20MHz-QPSK-38150-1RB#0-Range2:0.15~30MHz

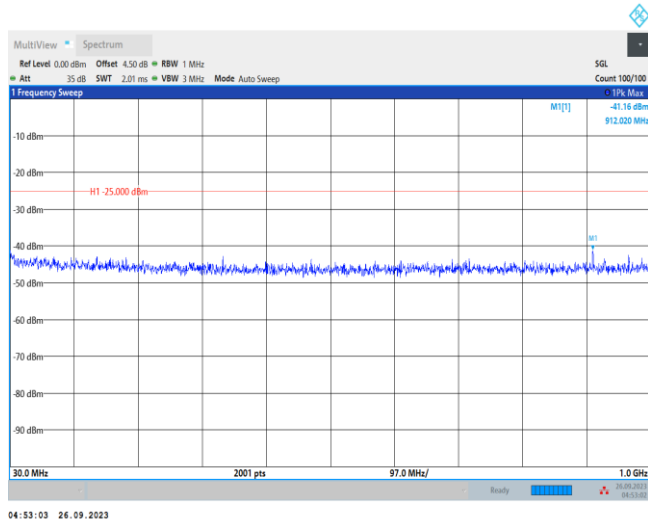


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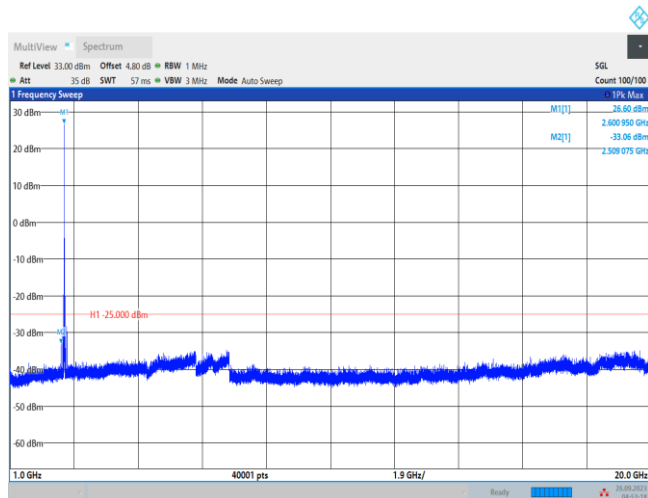
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Band38-20MHz-QPSK-38150-1RB#0-Range3:30~1000MHz



04:53:03 26.09.2023

Band38-20MHz-QPSK-38150-1RB#0-Range4:1000~20000MHz



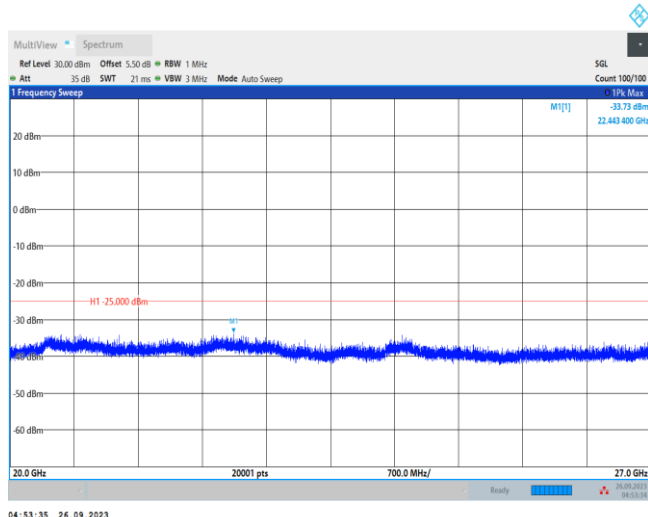
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Band38-20MHz-QPSK-38150-1RB#0-Range5:20000~27000MHz



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## Field Strength of Spurious Radiation

Test Band = LTE Band38\_ 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	40.16	-45.33	31.74	-68.69	-25.00	43.69	Horizontal
2	7713.2700	37.66	-43.01	36.69	-63.93	-25.00	38.93	Horizontal
3	10284.3600	32.05	-39.15	38.34	-64.02	-25.00	39.02	Horizontal
4	12855.4500	28.11	-36.99	39.06	-65.08	-25.00	40.08	Horizontal
5	15426.5400	26.15	-34.00	40.40	-62.70	-25.00	37.70	Horizontal
6	17997.6300	29.74	-34.58	46.79	-53.31	-25.00	28.31	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5142.1800	40.03	-45.33	31.74	-68.82	-25.00	43.82	Vertical
2	7713.2700	38.71	-43.01	36.69	-62.88	-25.00	37.88	Vertical
3	10284.3600	32.12	-39.15	38.34	-63.95	-25.00	38.95	Vertical
4	12855.4500	28.01	-36.99	39.06	-65.18	-25.00	40.18	Vertical
5	15426.5400	26.25	-34.00	40.40	-62.60	-25.00	37.60	Vertical
6	17997.6300	29.20	-34.58	46.79	-53.85	-25.00	28.85	Vertical



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**Test Band = LTE Band38\_ 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	5172.1800	39.73	-45.30	31.81	-69.02	-25.00	44.02	Horizontal
2	7758.2700	38.09	-42.65	36.70	-63.11	-25.00	38.11	Horizontal
3	10344.3600	32.44	-39.05	38.37	-63.50	-25.00	38.50	Horizontal
4	12930.4500	27.59	-37.18	39.08	-65.77	-25.00	40.77	Horizontal
5	15516.5400	25.17	-35.30	40.21	-65.18	-25.00	40.18	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5172.1800	41.85	-45.30	31.81	-66.90	-25.00	41.90	Vertical
2	7758.2700	38.21	-42.65	36.70	-62.99	-25.00	37.99	Vertical
3	10344.3600	32.58	-39.05	38.37	-63.36	-25.00	38.36	Vertical
4	12930.4500	27.65	-37.18	39.08	-65.71	-25.00	40.71	Vertical
5	15516.5400	24.50	-35.30	40.21	-65.85	-25.00	40.85	Vertical



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**Test Band = LTE Band38\_ 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	5202.1800	40.85	-45.28	31.89	-67.80	-25.00	42.80	Horizontal
2	7803.2700	37.25	-42.33	36.72	-63.62	-25.00	38.62	Horizontal
3	10404.3600	32.54	-39.00	38.40	-63.32	-25.00	38.32	Horizontal
4	13005.4500	27.08	-37.31	39.11	-66.38	-25.00	41.38	Horizontal
5	15606.5400	24.22	-34.87	40.03	-65.89	-25.00	40.89	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5202.1800	40.19	-45.28	31.89	-68.46	-25.00	43.46	Vertical
2	7803.2700	38.22	-42.33	36.72	-62.65	-25.00	37.65	Vertical
3	10404.3600	31.80	-39.00	38.40	-64.06	-25.00	39.06	Vertical
4	13005.4500	26.97	-37.31	39.11	-66.49	-25.00	41.49	Vertical
5	15606.5400	24.87	-34.87	40.03	-65.24	-25.00	40.24	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



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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-8.10	-0.003121	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-12.60	-0.004855	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-11.30	-0.004355	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-10.60	-0.004085	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-9.30	-0.003584	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-9.70	-0.003738	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-8.20	-0.003160	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-5.00	-0.001927	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-12.30	-0.004740	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-10.00	-0.003854	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-10.00	-0.003854	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-9.50	-0.003661	PASS

---End of Attachment---



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