

Report No.: SEWA2303000029RG01

Rev.: 01

Page: 1 of 42

Appendix B.21

LTE CA_38C



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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
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#0-0RB#0	21.54	23.23	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	75RB#0-75RB#0	19.67	21.36	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	1RB#0-0RB#0	21.5	23.19	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	19.71	21.4	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	1RB#0-0RB#0	21.5	23.19	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	19.69	21.38	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	20.9	22.59	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	18.67	20.36	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	1RB#0-0RB#0	20.89	22.58	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	18.73	20.42	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	1RB#0-0RB#0	20.84	22.53	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	18.69	20.38	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	1RB#0-0RB#0	19.8	21.49	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	18.66	20.35	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	1RB#0-0RB#0	19.75	21.44	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	18.72	20.41	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	1RB#0-0RB#0	19.75	21.44	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	18.69	20.38	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	1RB#0-0RB#0	17	18.69	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	75RB#0-75RB#0	16.96	18.65	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	1RB#0-0RB#0	16.9	18.59	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	75RB#0-75RB#0	17	18.69	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	1RB#0-0RB#0	17.02	18.71	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	75RB#0-75RB#0	16.96	18.65	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	19.62	21.31	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#0-0RB#0	21.37	23.06	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	19.66	21.35	33	PASS



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38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#0-0RB#0	21.34	23.03	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	19.69	21.38	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#0-0RB#0	21.34	23.03	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	18.7	20.39	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#0-0RB#0	20.72	22.41	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	18.73	20.42	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#0-0RB#0	20.69	22.38	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	18.67	20.36	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#0-0RB#0	20.71	22.4	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	18.65	20.34	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	1RB#0-0RB#0	19.59	21.28	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	18.68	20.37	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	1RB#0-0RB#0	19.57	21.26	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	18.64	20.33	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	1RB#0-0RB#0	19.6	21.29	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	100RB#0-100RB#0	16.92	18.61	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	1RB#0-0RB#0	16.78	18.47	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	16.98	18.67	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	1RB#0-0RB#0	16.83	18.52	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	100RB#0-100RB#0	16.94	18.63	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	1RB#0-0RB#0	16.76	18.45	33	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	7.4	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	9.38	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	9.42	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	9.82	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	9.82	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	9.84	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	10.04	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	10.06	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	10.04	13	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	100RB#0-100RB#0	9.86	13	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	9.94	13	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	100RB#0-100RB#0	9.88	13	PASS



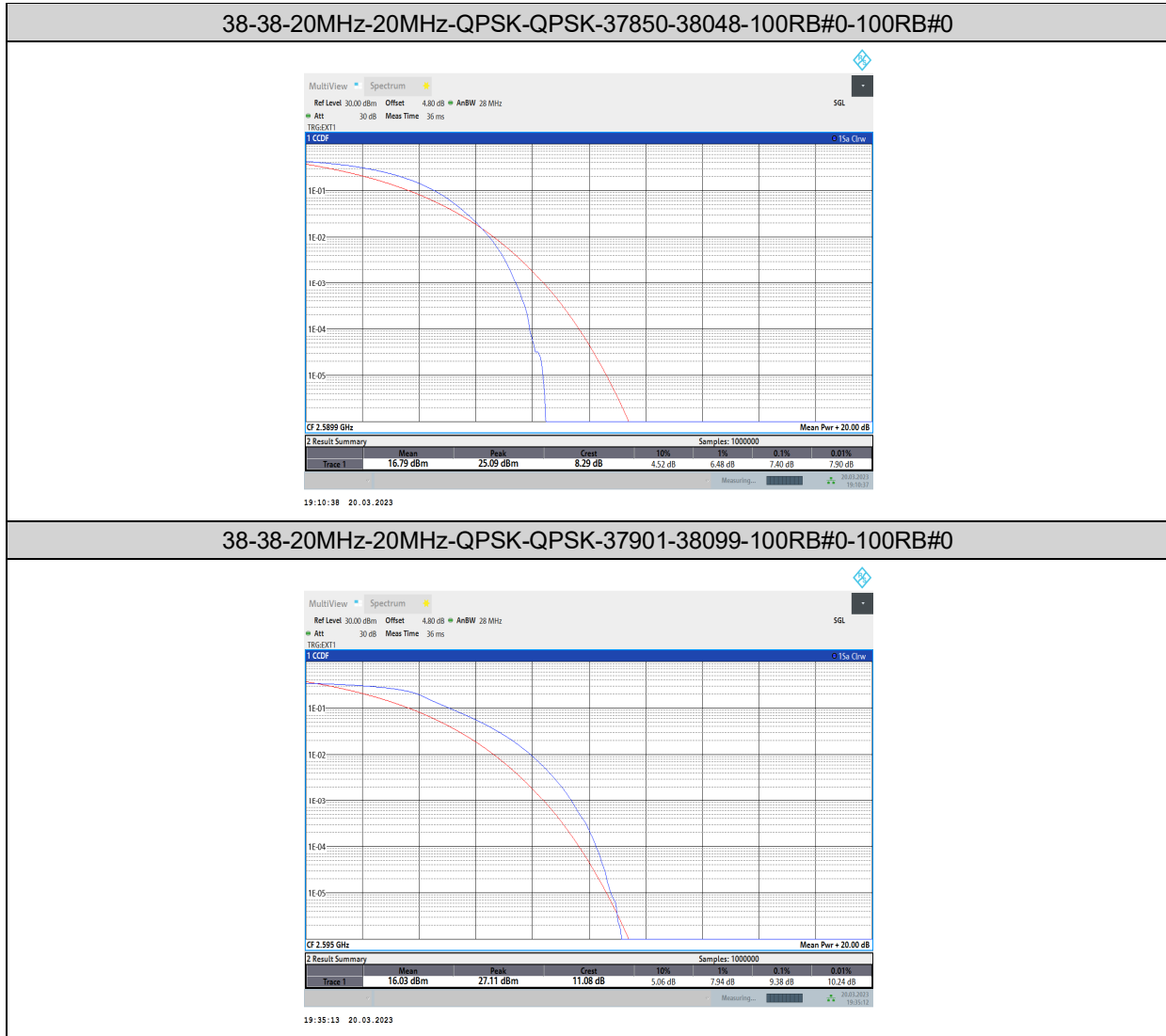
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Test Graphs

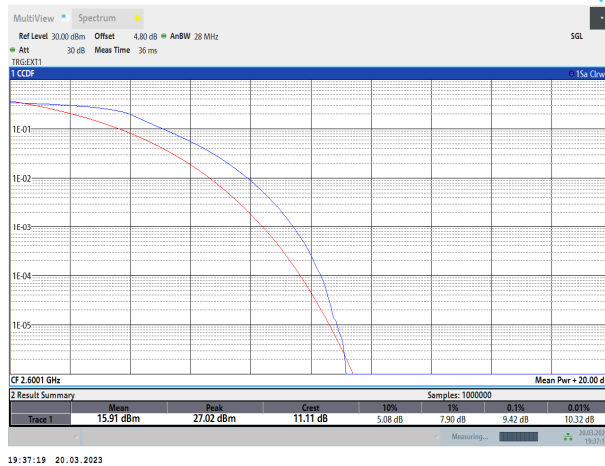


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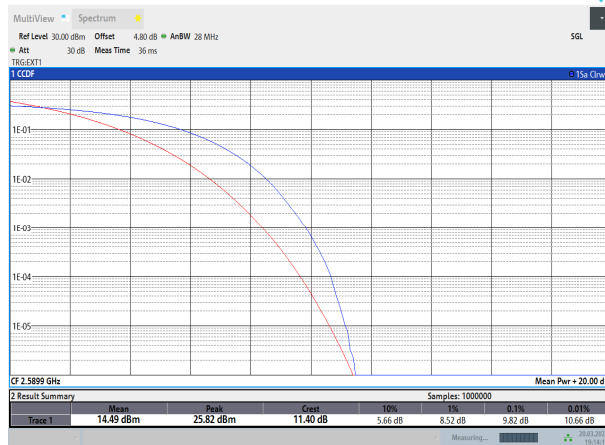
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-100RB#0-100RB#0



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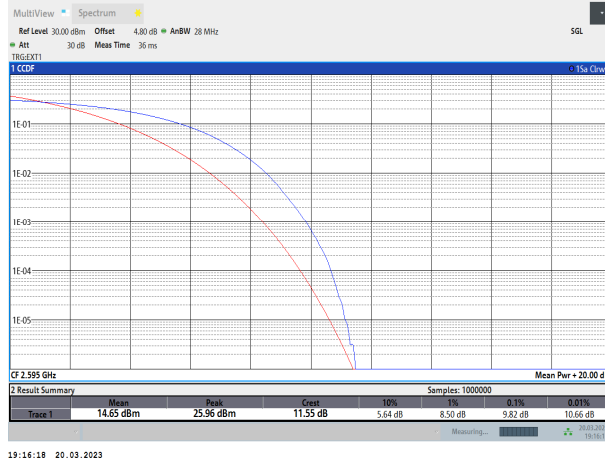


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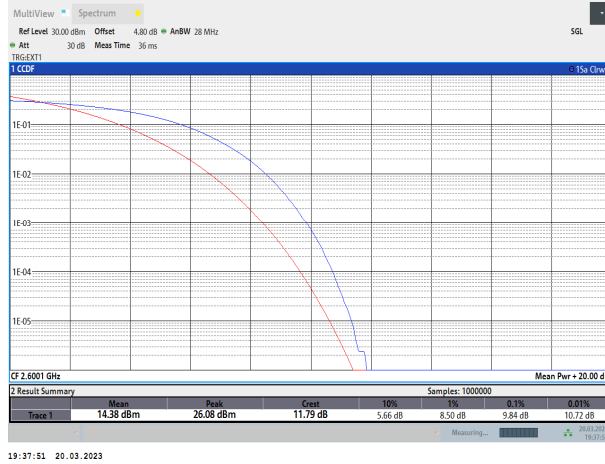
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38-38-20MHz-20MHz-16QAM-16QAM-37901-38099-100RB#0-100RB#0



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

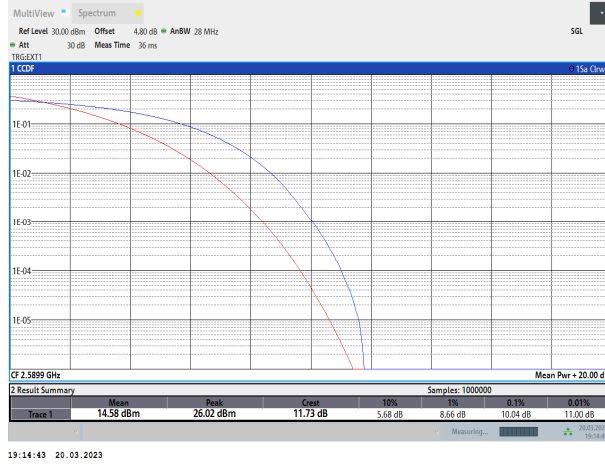


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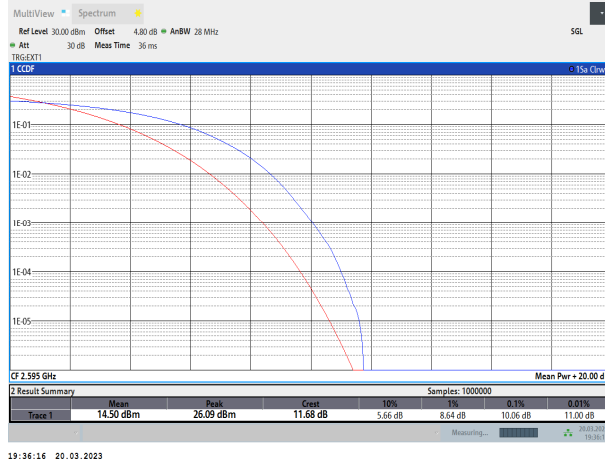
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38-38-20MHz-20MHz-64QAM-64QAM-37850-38048-100RB#0-100RB#0



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

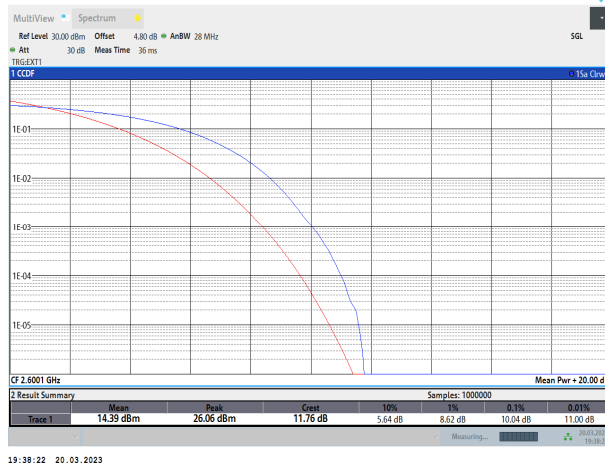


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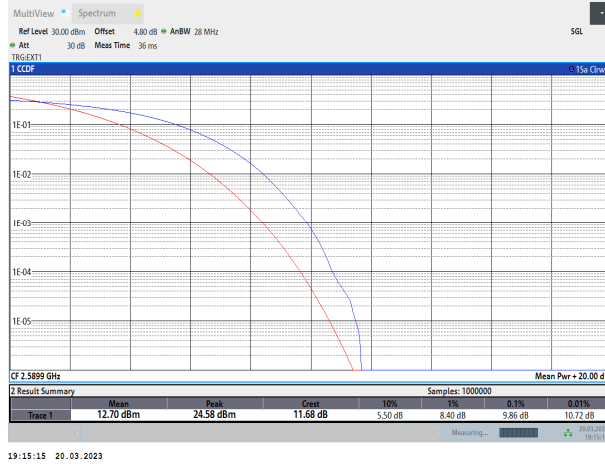
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38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-100RB#0-100RB#0



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

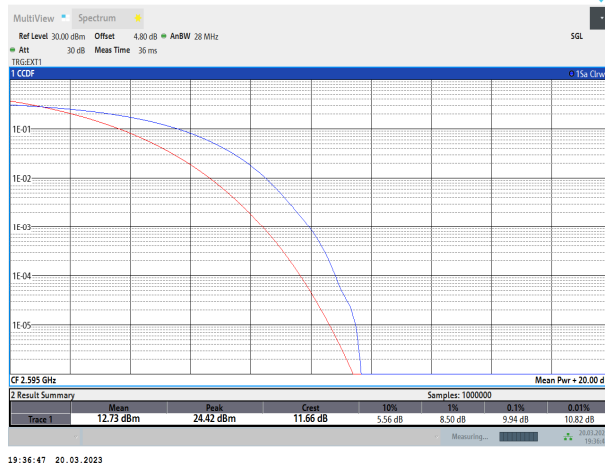


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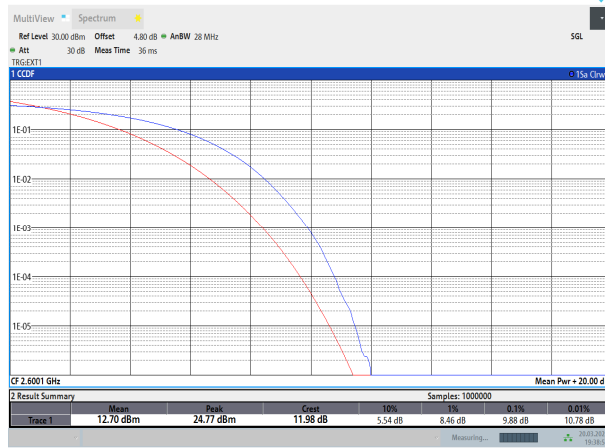
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38-38-20MHz-20MHz-256QAM-256QAM-37901-38099-100RB#0-100RB#0



19:36:47 20.03.2023

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



19:38:53 20.03.2023



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	PASS

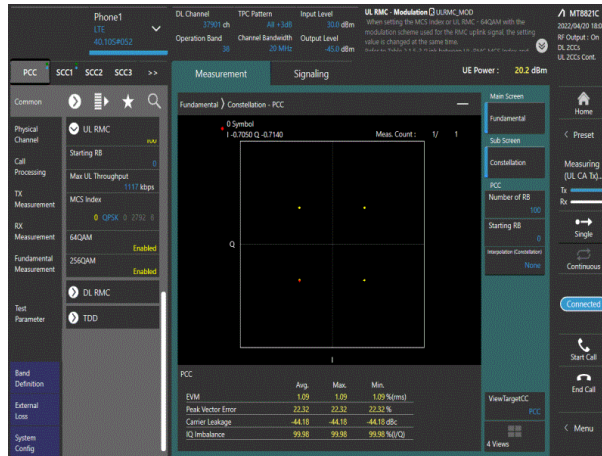


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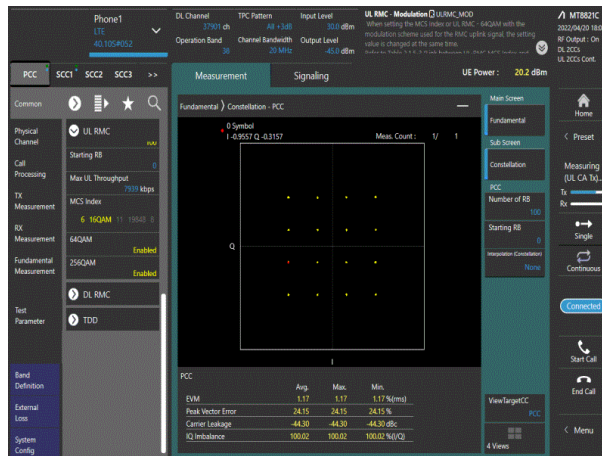
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Test Graphs

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



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



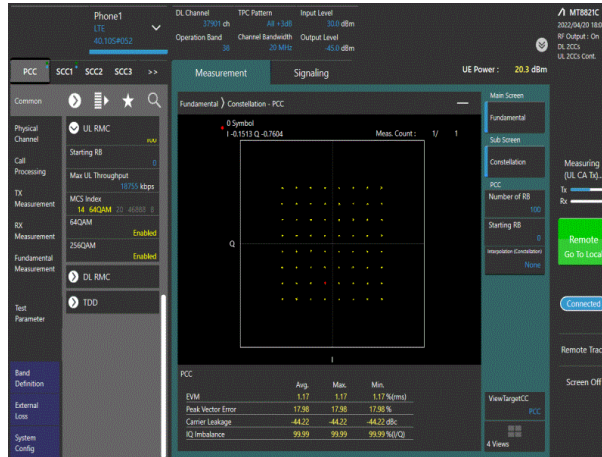
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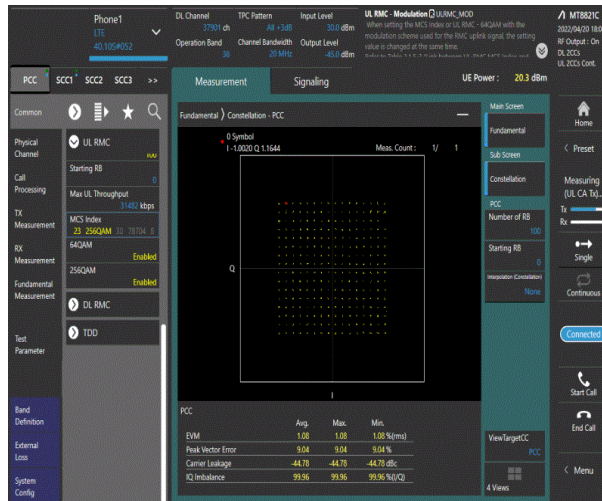
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38-38-20MHz-20MHz-64QAM-64QAM-37901-38099-100RB#0-100RB#0



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



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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	37825-37975	75RB#0-75RB#0	28.330	30.12	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	28.215	29.70	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	28.215	29.88	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	28.337	29.76	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	28.205	29.58	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	28.202	29.70	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	28.265	29.82	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	28.247	29.76	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	28.351	29.76	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	75RB#0-75RB#0	28.305	29.64	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	75RB#0-75RB#0	28.238	29.64	PASS
38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	75RB#0-75RB#0	28.256	29.64	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	37.667	40.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	37.661	40.08	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	37.624	40.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	37.628	40.16	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	37.646	40.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	37.610	40.08	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	37.542	40.24	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	37.670	39.92	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	37.682	39.84	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	100RB#0-100RB#0	37.590	40.00	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	37.672	40.00	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	100RB#0-100RB#0	37.547	39.84	PASS



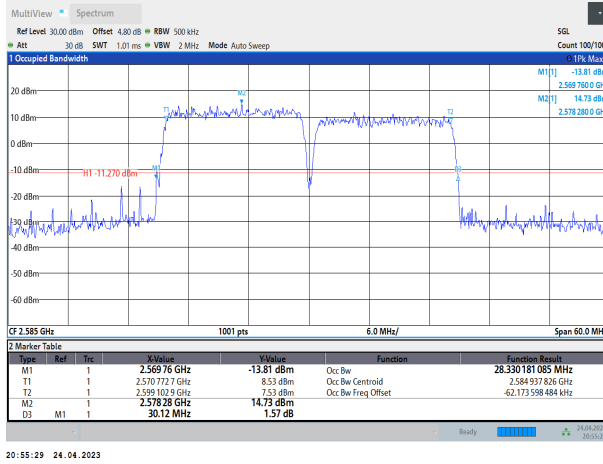
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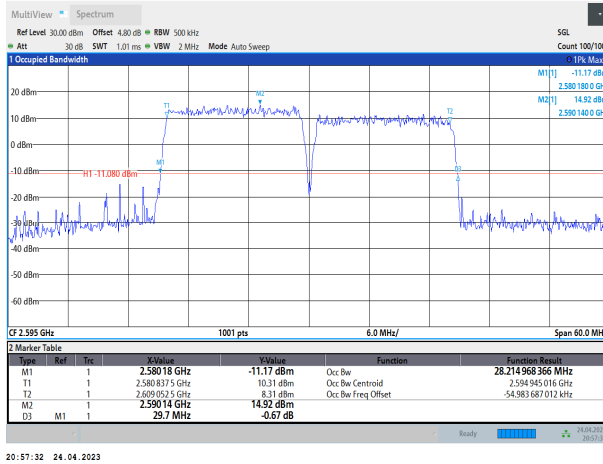
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Test Graphs

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



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

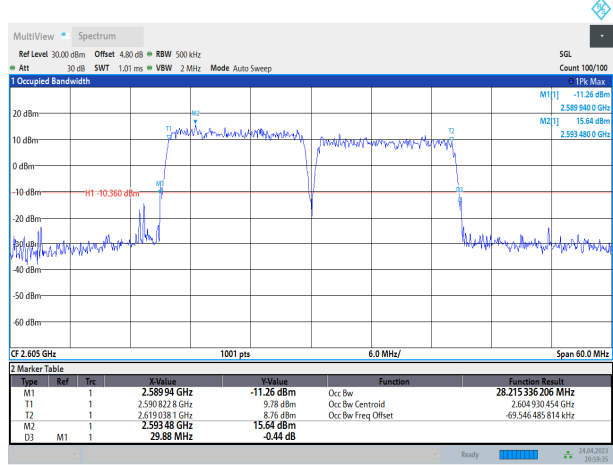


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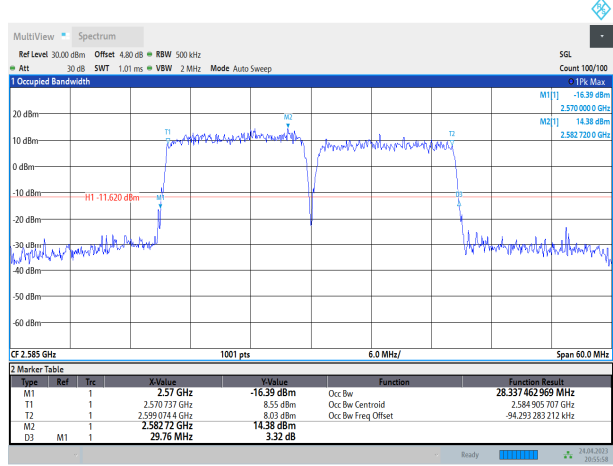
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38-38-15MHz-15MHz-QPSK-QPSK-38025-38175-75RB#0-75RB#0



20:59:35 24. 04. 2023

38-38-15MHz-15MHz-16QAM-16QAM-37825-37975-75RB#0-75RB#0



20:55:58 24. 04. 2023



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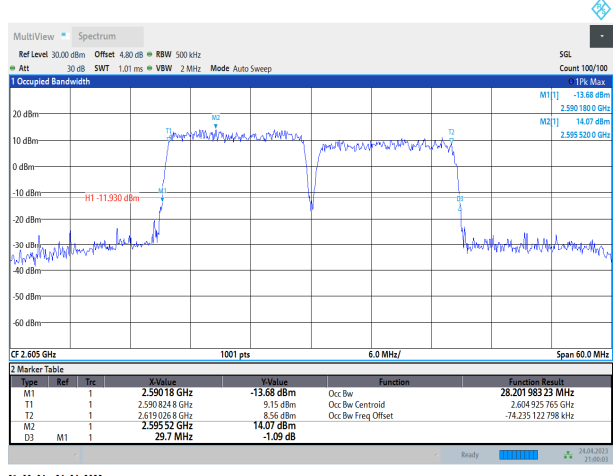
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20:58:01 24. 04. 2023

38-38-15MHz-15MHz-16QAM-16QAM-38025-38175-75RB#0-75RB#0



21:00:04 24. 04. 2023

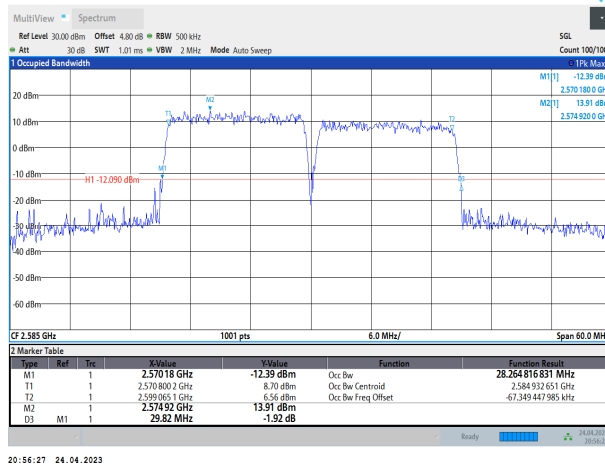


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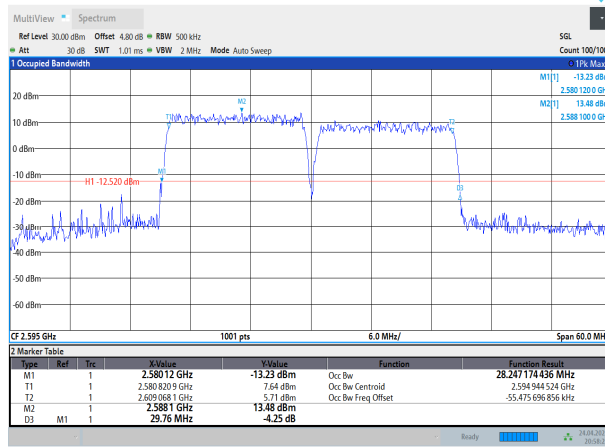
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20:56:27 24.04.2023

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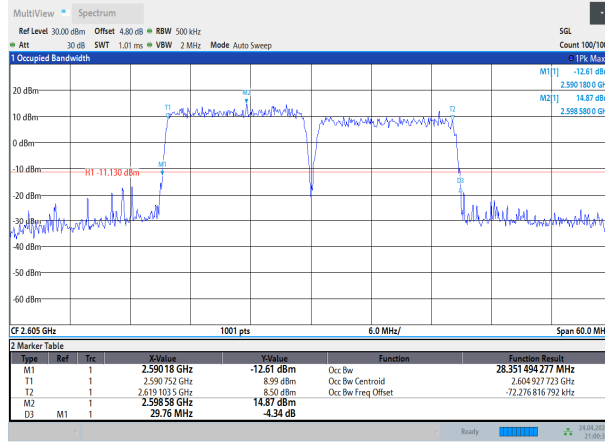


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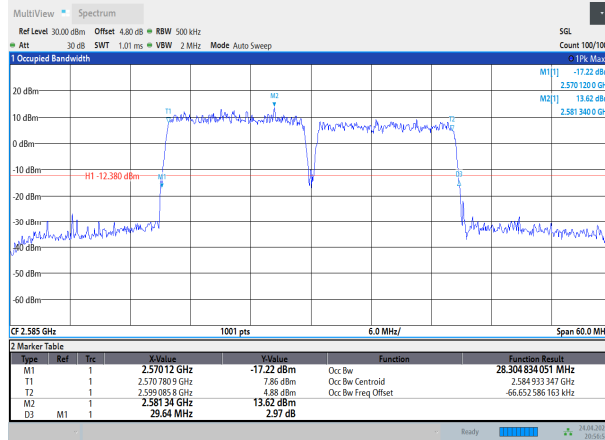
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21:00:33 24. 04. 2023

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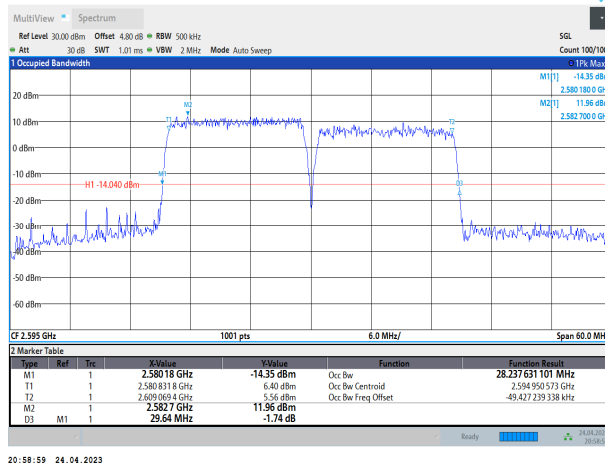


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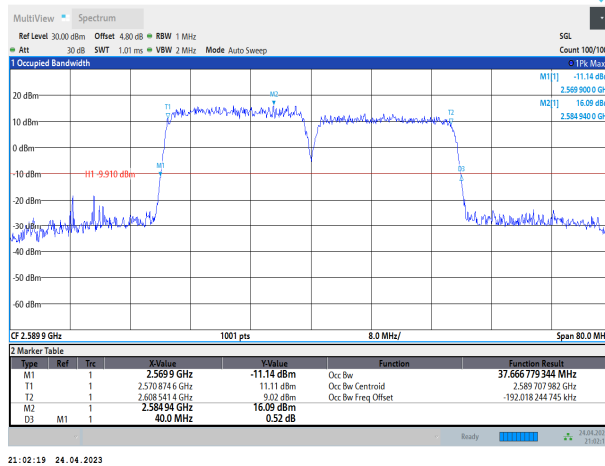


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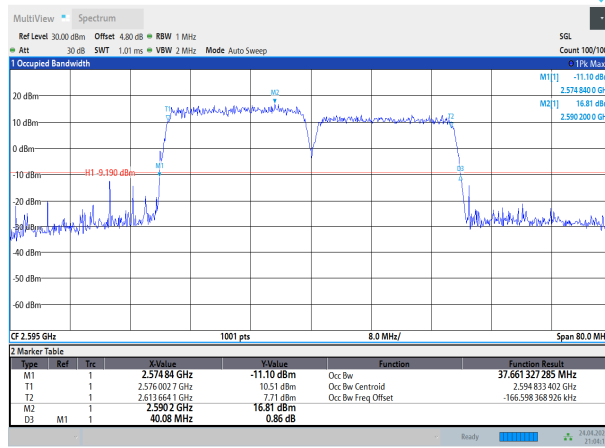
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-100RB#0-100RB#0



21:02:19 24.04.2023

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



21:04:15 24.04.2023



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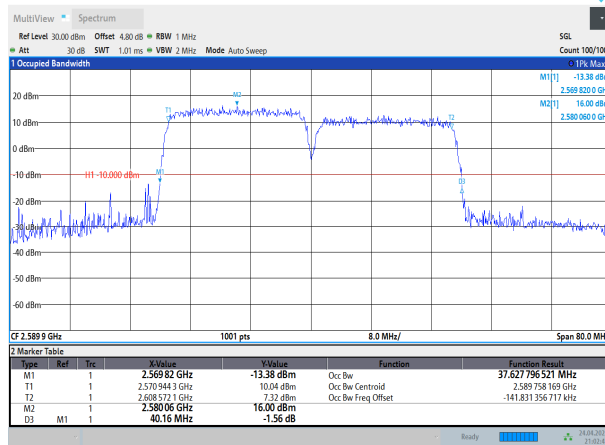
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-100RB#0-100RB#0



21:06:12 24.04.2023

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



21:02:48 24.04.2023

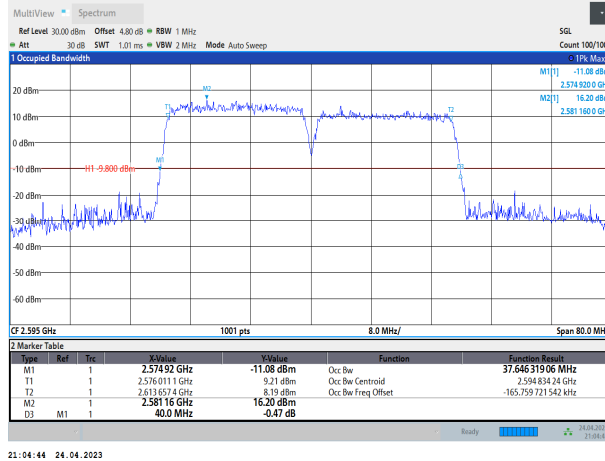


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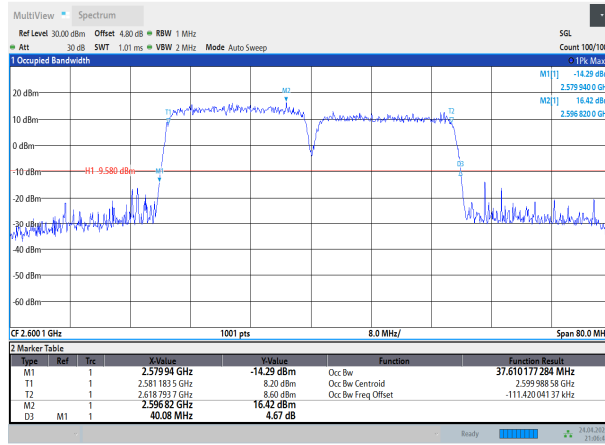
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38-38-20MHz-20MHz-16QAM-16QAM-37901-38099-100RB#0-100RB#0



21:04:44 24.04.2023

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



21:06:41 24.04.2023

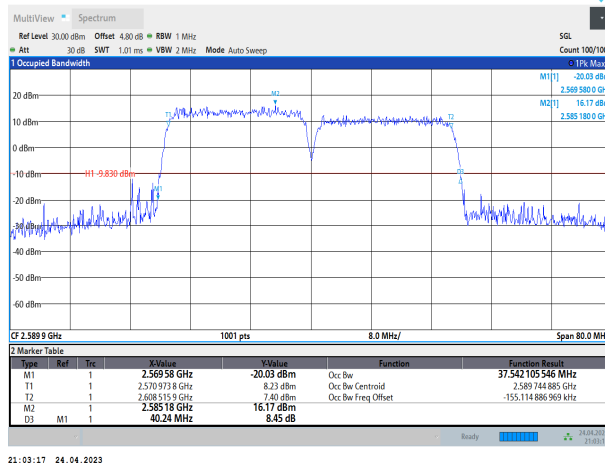


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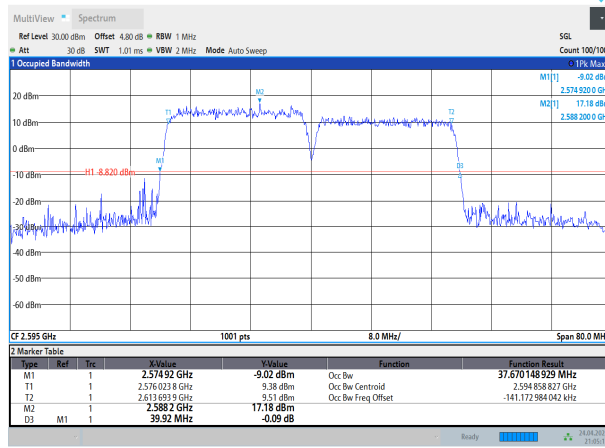
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38-38-20MHz-20MHz-64QAM-64QAM-37850-38048-100RB#0-100RB#0



21:03:17 24.04.2023

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



21:05:13 24.04.2023

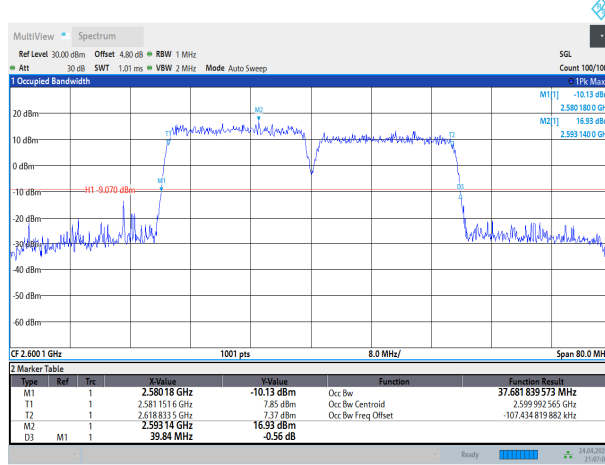


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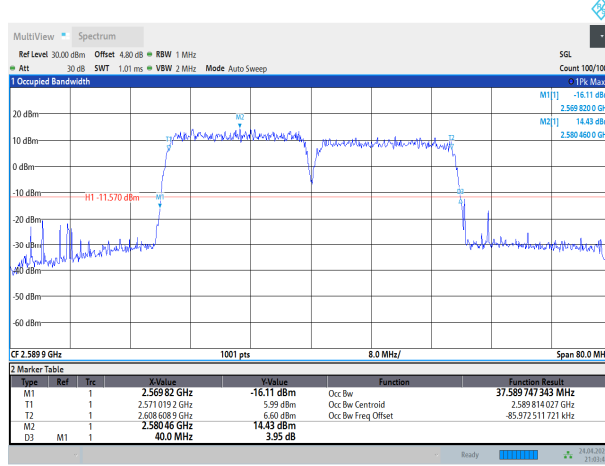
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38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-100RB#0-100RB#0



21:07:10 24.04.2023

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



21:03:46 24.04.2023

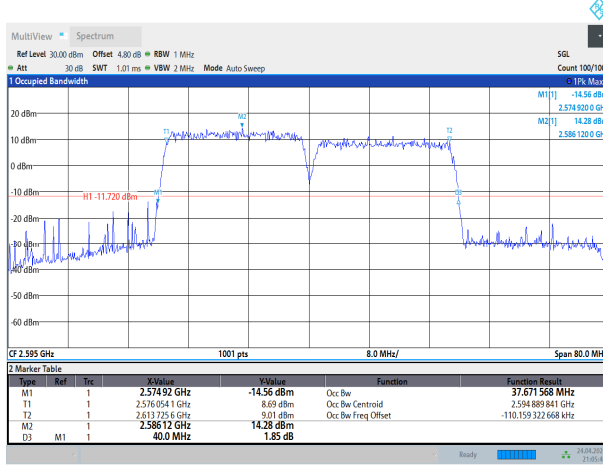


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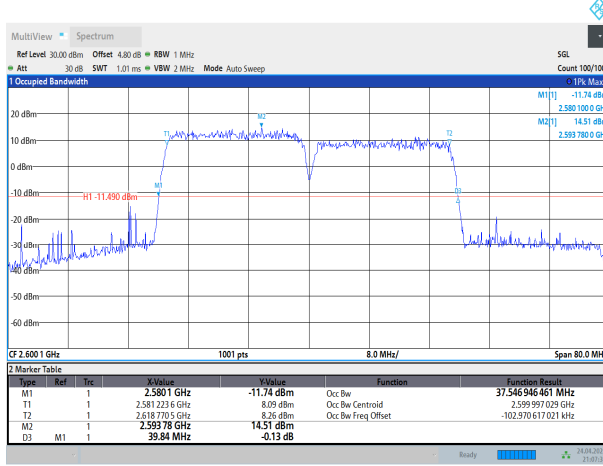
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38-38-20MHz-20MHz-256QAM-256QAM-37901-38099-100RB#0-100RB#0



21:05:42 24.04.2023

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



21:07:39 24.04.2023



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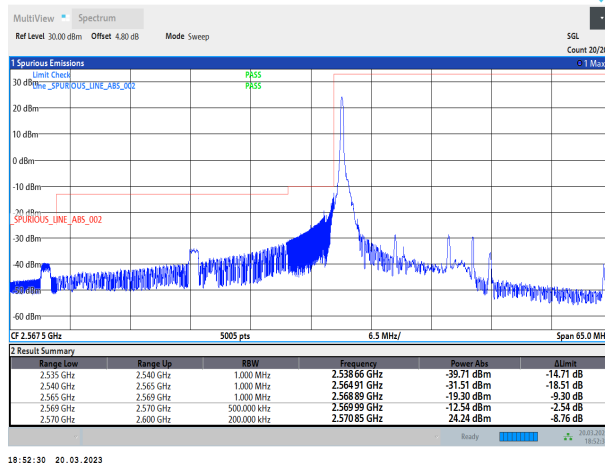
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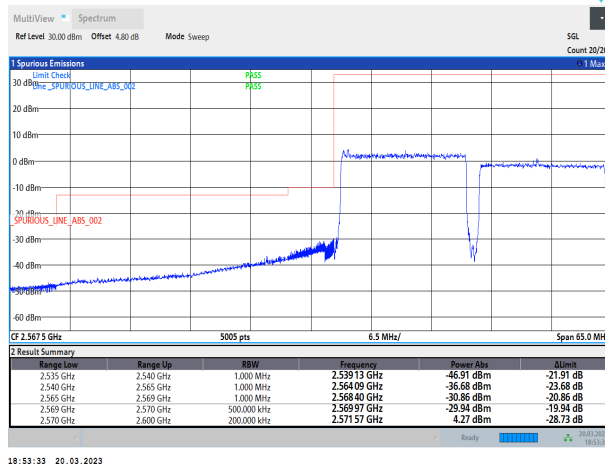
Band Edge

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

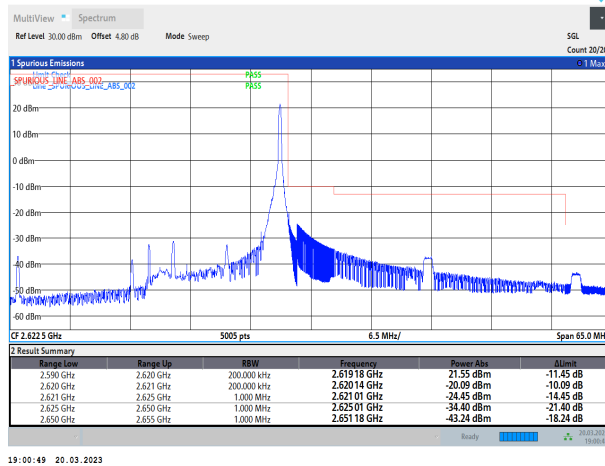


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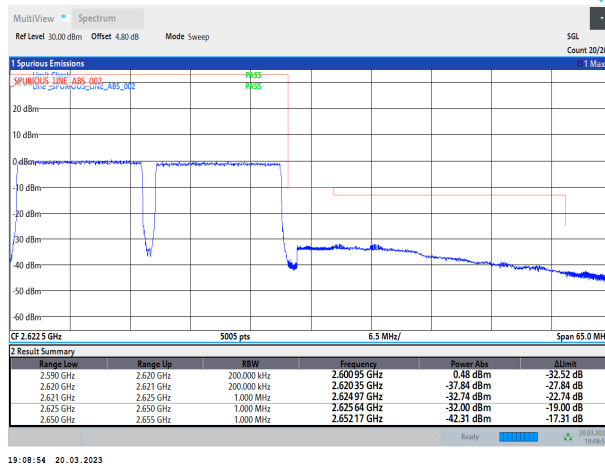
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38-38-15MHz-15MHz-QPSK-QPSK-38025-38175-0RB#0-1RB#74



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

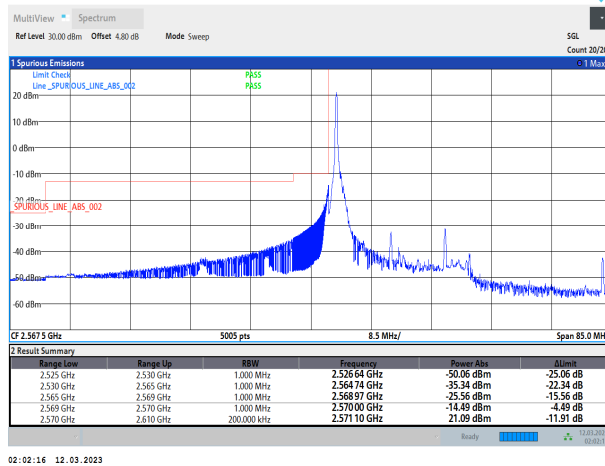


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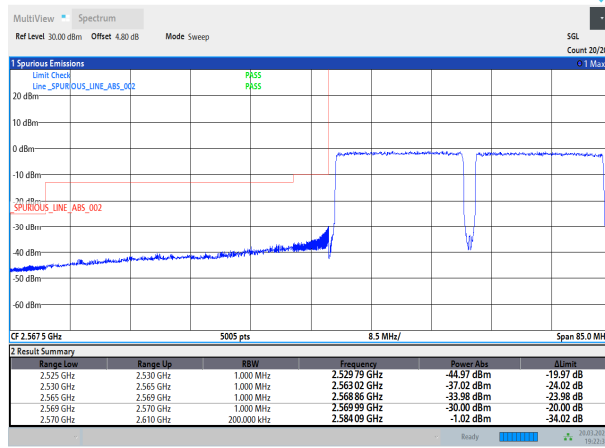
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0



02:02:16 12. 03. 2023

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



19:22:31 20. 03. 2023

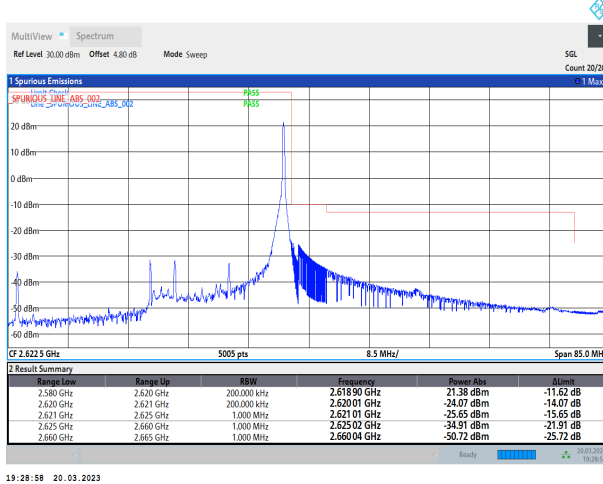


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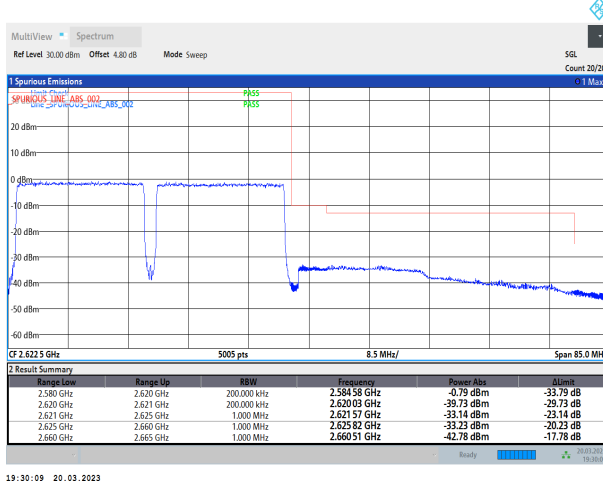
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-R0B#0-1RB#99



19:28:58 20.03.2023

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



19:30:09 20.03.2023



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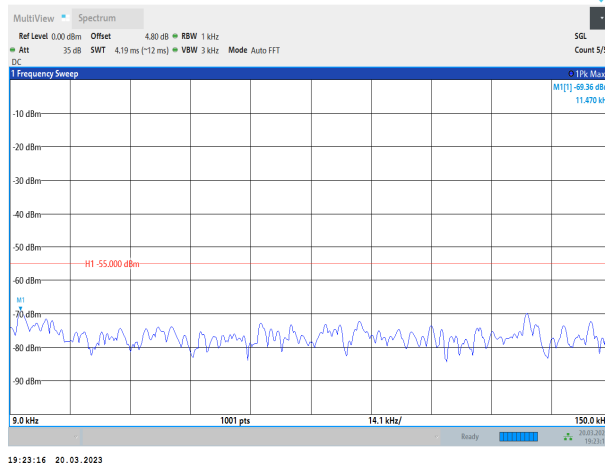
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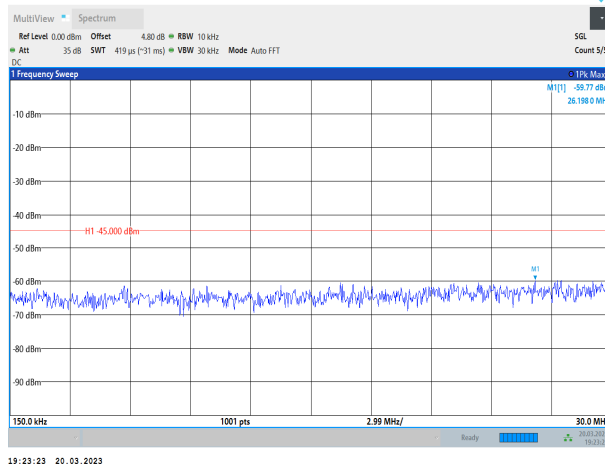
Conducted Spurious Emission

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

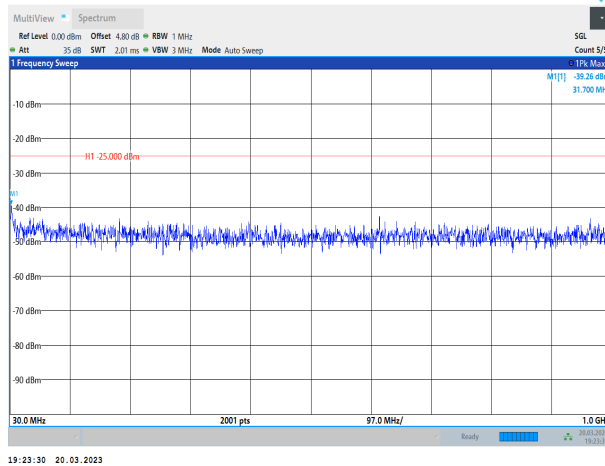


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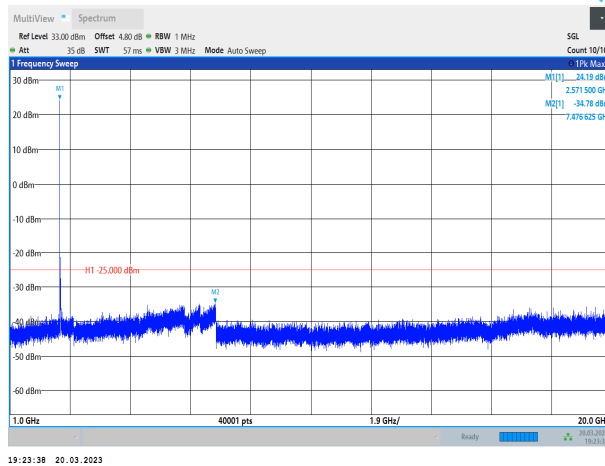
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-30~1000MHz



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

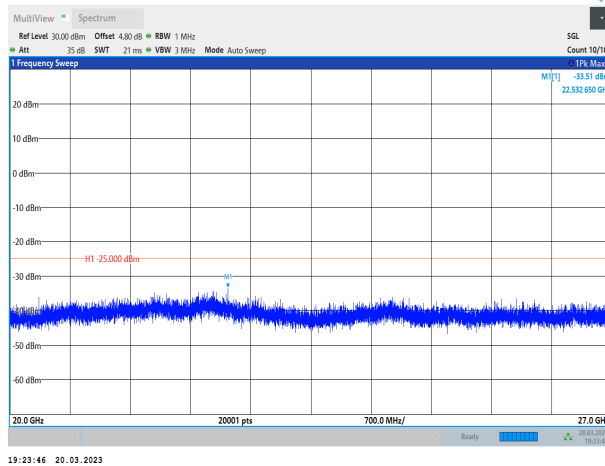


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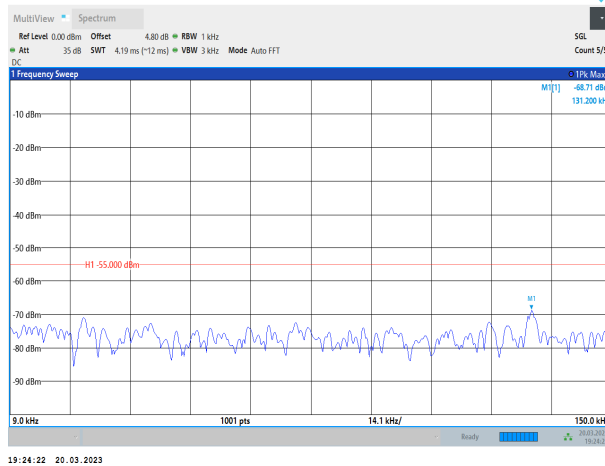
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-20000~27000MHz



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

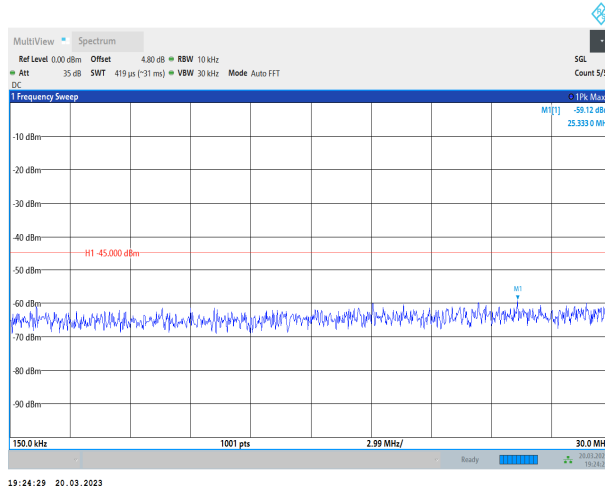


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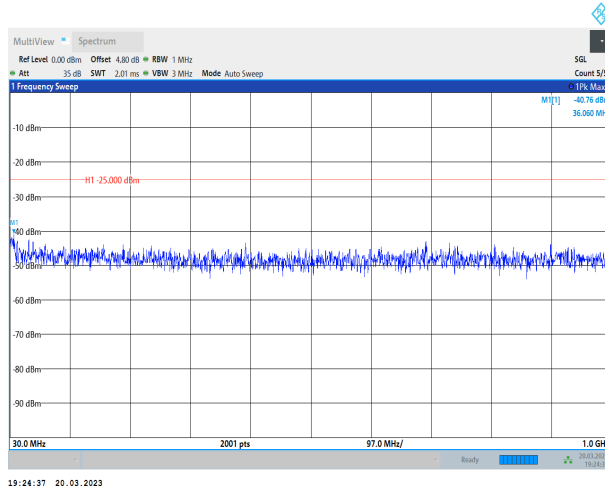
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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-0.15~30MHz



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

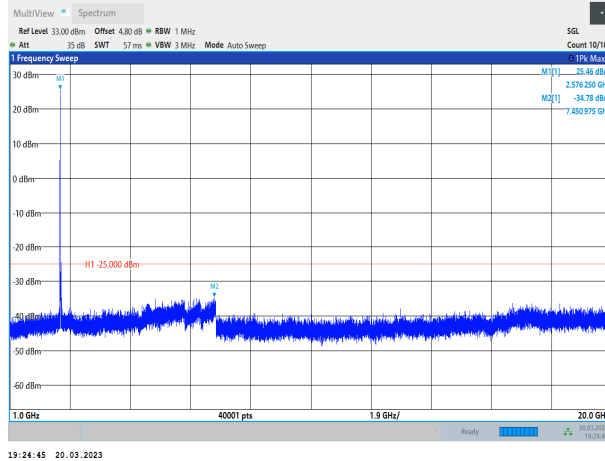


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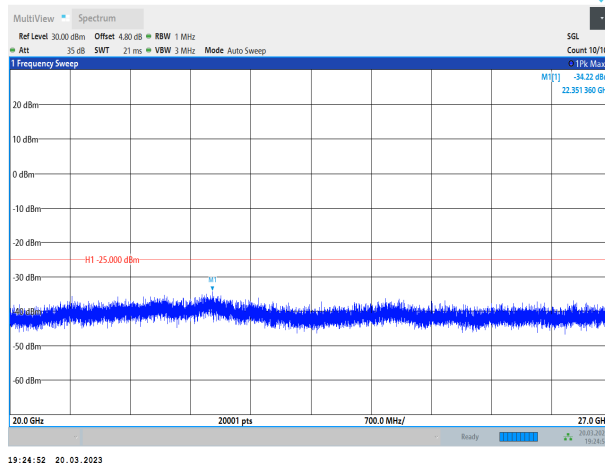
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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-1000~20000MHz



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

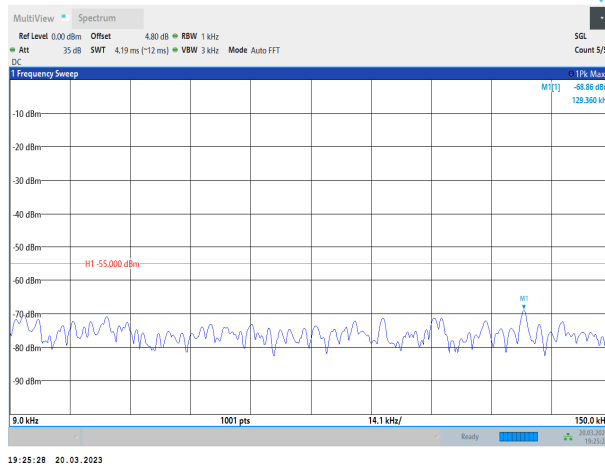


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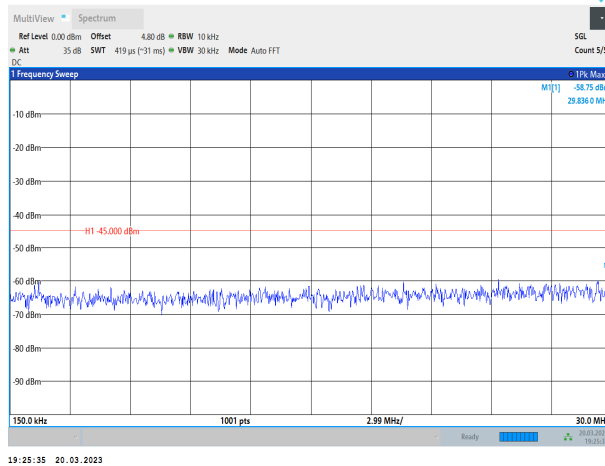
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-0.009~0.15MHz



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

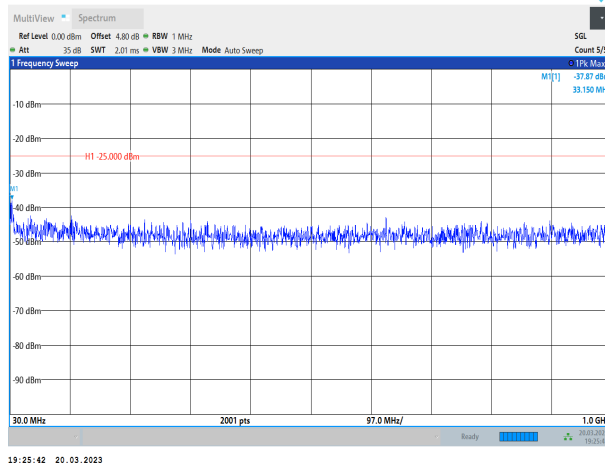


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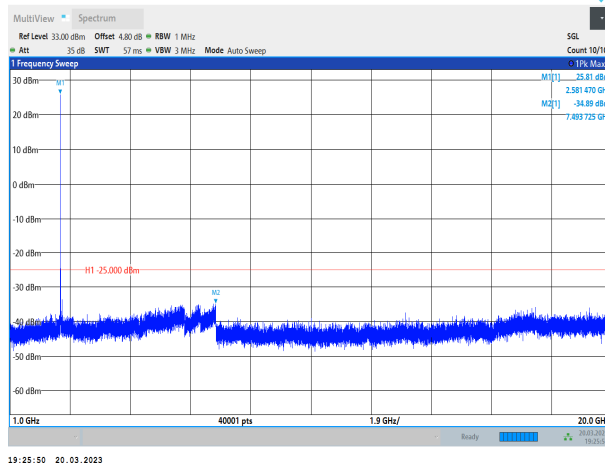
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-30~1000MHz



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

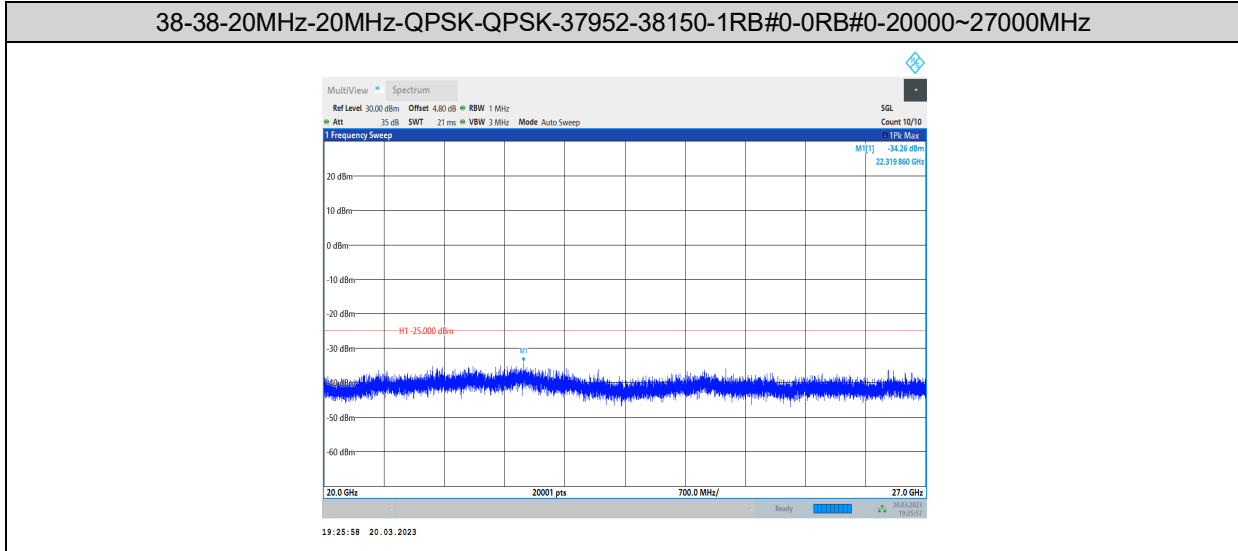


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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band38C_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5151	59.39	-45.32	32.96	-48.23	-25.00	23.23	189	60	Horizontal
2	7713.2700	39.59	-43.01	36.61	-62.07	-25.00	37.07	215	14	Horizontal
3	10284.3600	34.08	-39.15	38.83	-61.50	-25.00	36.50	223	4	Horizontal
4	12855.4500	31.60	-36.99	39.69	-60.96	-25.00	35.96	194	118	Horizontal
5	15426.5400	31.21	-33.99	38.67	-59.37	-25.00	34.37	205	360	Horizontal
6	17997.6300	32.41	-34.58	42.23	-55.19	-25.00	30.19	183	73	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5151	64.67	-45.32	32.96	-42.95	-25.00	17.95	208	120	Vertical
2	7726.5	44.38	-42.91	36.64	-57.15	-25.00	32.15	142	120	Vertical
3	10302	40.34	-39.09	38.84	-55.17	-25.00	30.17	139	134	Vertical
4	12855.4500	32.18	-36.99	39.69	-60.38	-25.00	35.38	284	300	Vertical
5	15426.5400	30.47	-33.99	38.67	-60.11	-25.00	35.11	156	269	Vertical
6	17997.6300	32.43	-34.58	42.23	-55.17	-25.00	30.17	228	360	Vertical



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Test Band = LTE Band38C_ TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3975	43.07	-46.10	30.74	-67.55	-25.00	42.55	219	360	Horizontal
2	5177.25	48.19	-45.30	32.98	-59.39	-25.00	34.39	305	90	Horizontal
3	7728.5700	39.28	-42.89	36.64	-62.23	-25.00	37.23	289	30	Horizontal
4	10304.7600	34.90	-39.09	38.84	-60.61	-25.00	35.61	164	29	Horizontal
5	12880.9500	32.48	-37.06	39.71	-60.13	-25.00	35.13	257	360	Horizontal
6	15457.1400	30.66	-34.57	38.63	-60.54	-25.00	35.54	143	118	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4005	43.56	-46.03	30.81	-66.92	-25.00	41.92	187	283	Vertical
2	5167.5	53.65	-45.31	32.97	-53.95	-25.00	28.95	149	88	Vertical
3	7728.5700	38.97	-42.89	36.64	-62.54	-25.00	37.54	208	343	Vertical
4	10304.7600	33.64	-39.09	38.84	-61.87	-25.00	36.87	216	88	Vertical
5	12880.9500	31.31	-37.06	39.71	-61.30	-25.00	36.30	238	284	Vertical
6	15457.1400	30.06	-34.57	38.63	-61.14	-25.00	36.14	306	3	Vertical



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Test Band = LTE Band38C_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3923.25	42.81	-46.22	30.62	-68.05	-25.00	43.05	199	360	Horizontal
2	5184	51.10	-45.29	32.98	-56.47	-25.00	31.47	267	59	Horizontal
3	7743.8700	39.39	-42.76	36.67	-61.96	-25.00	36.96	100	360	Horizontal
4	10325.1600	34.04	-39.07	38.84	-61.45	-25.00	36.45	249	299	Horizontal
5	12906.4500	32.35	-37.12	39.74	-60.30	-25.00	35.30	251	352	Horizontal
6	15487.7400	29.14	-35.15	38.59	-62.68	-25.00	37.68	178	164	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3696.75	42.24	-45.52	29.96	-68.58	-25.00	43.58	233	88	Vertical
2	5187.75	55.11	-45.29	32.98	-52.46	-25.00	27.46	174	120	Vertical
3	7743.8700	40.17	-42.76	36.67	-61.18	-25.00	36.18	219	360	Vertical
4	10325.1600	35.02	-39.07	38.84	-60.47	-25.00	35.47	266	165	Vertical
5	12906.4500	31.91	-37.12	39.74	-60.74	-25.00	35.74	283	359	Vertical
6	15487.7400	29.67	-35.15	38.59	-62.15	-25.00	37.15	152	29	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:

 $AF = \text{Antenna Factor(dB/m)}$
 $\text{Factor} = \text{Cable Factor(dB)} - \text{Preamplifier (dB)}$
 $\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$
 $\text{Margin} = \text{Limit} - \text{Level}$


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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	38.80	0.015009	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	VL	NT	30.60	0.011837	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	VN	NT	43.50	0.016827	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	40.20	0.015551	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	20	55.40	0.021431	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	10	51.10	0.019767	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	0	34.90	0.013500	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	-10	37.20	0.014390	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	-20	47.00	0.018181	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	-30	40.70	0.015744	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	-50	48.60	0.018800	PASS

---End of Attachment---



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