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Appendix B.18

LTE Band 41(2555-2655)



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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
Band41	5MHz	QPSK	40265	1RB#0	21.97	24.41	33.00	PASS
Band41	5MHz	QPSK	40265	1RB#12	22.16	24.60	33.00	PASS
Band41	5MHz	QPSK	40265	1RB#24	22.02	24.46	33.00	PASS
Band41	5MHz	QPSK	40265	25RB#0	21.15	23.59	33.00	PASS
Band41	5MHz	QPSK	40740	1RB#0	22.04	24.48	33.00	PASS
Band41	5MHz	QPSK	40740	1RB#12	22.14	24.58	33.00	PASS
Band41	5MHz	QPSK	40740	1RB#24	22.06	24.50	33.00	PASS
Band41	5MHz	QPSK	40740	25RB#0	21.12	23.56	33.00	PASS
Band41	5MHz	QPSK	41215	1RB#0	22.09	24.53	33.00	PASS
Band41	5MHz	QPSK	41215	1RB#12	22.19	24.63	33.00	PASS
Band41	5MHz	QPSK	41215	1RB#24	22.16	24.60	33.00	PASS
Band41	5MHz	QPSK	41215	25RB#0	21.21	23.65	33.00	PASS
Band41	5MHz	16QAM	40265	1RB#0	21.34	23.78	33.00	PASS
Band41	5MHz	16QAM	40265	1RB#12	21.50	23.94	33.00	PASS
Band41	5MHz	16QAM	40265	1RB#24	21.43	23.87	33.00	PASS
Band41	5MHz	16QAM	40265	25RB#0	20.25	22.69	33.00	PASS
Band41	5MHz	16QAM	40740	1RB#0	21.27	23.71	33.00	PASS
Band41	5MHz	16QAM	40740	1RB#12	21.39	23.83	33.00	PASS
Band41	5MHz	16QAM	40740	1RB#24	21.29	23.73	33.00	PASS
Band41	5MHz	16QAM	40740	25RB#0	20.16	22.60	33.00	PASS
Band41	5MHz	16QAM	41215	1RB#0	21.37	23.81	33.00	PASS
Band41	5MHz	16QAM	41215	1RB#12	21.57	24.01	33.00	PASS
Band41	5MHz	16QAM	41215	1RB#24	21.47	23.91	33.00	PASS
Band41	5MHz	16QAM	41215	25RB#0	20.20	22.64	33.00	PASS
Band41	10MHz	QPSK	40290	1RB#0	22.18	24.62	33.00	PASS



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Band41	10MHz	QPSK	40290	1RB#24	22.44	24.88	33.00	PASS
Band41	10MHz	QPSK	40290	1RB#49	22.28	24.72	33.00	PASS
Band41	10MHz	QPSK	40290	50RB#0	21.30	23.74	33.00	PASS
Band41	10MHz	QPSK	40740	1RB#0	22.16	24.60	33.00	PASS
Band41	10MHz	QPSK	40740	1RB#24	22.26	24.70	33.00	PASS
Band41	10MHz	QPSK	40740	1RB#49	22.24	24.68	33.00	PASS
Band41	10MHz	QPSK	40740	50RB#0	21.22	23.66	33.00	PASS
Band41	10MHz	QPSK	41190	1RB#0	22.04	24.48	33.00	PASS
Band41	10MHz	QPSK	41190	1RB#24	22.30	24.74	33.00	PASS
Band41	10MHz	QPSK	41190	1RB#49	22.17	24.61	33.00	PASS
Band41	10MHz	QPSK	41190	50RB#0	21.10	23.54	33.00	PASS
Band41	10MHz	16QAM	40290	1RB#0	21.59	24.03	33.00	PASS
Band41	10MHz	16QAM	40290	1RB#24	21.81	24.25	33.00	PASS
Band41	10MHz	16QAM	40290	1RB#49	21.63	24.07	33.00	PASS
Band41	10MHz	16QAM	40290	50RB#0	20.38	22.82	33.00	PASS
Band41	10MHz	16QAM	40740	1RB#0	21.07	23.51	33.00	PASS
Band41	10MHz	16QAM	40740	1RB#24	21.24	23.68	33.00	PASS
Band41	10MHz	16QAM	40740	1RB#49	21.14	23.58	33.00	PASS
Band41	10MHz	16QAM	40740	50RB#0	20.31	22.75	33.00	PASS
Band41	10MHz	16QAM	41190	1RB#0	21.40	23.84	33.00	PASS
Band41	10MHz	16QAM	41190	1RB#24	21.68	24.12	33.00	PASS
Band41	10MHz	16QAM	41190	1RB#49	21.64	24.08	33.00	PASS
Band41	10MHz	16QAM	41190	50RB#0	20.25	22.69	33.00	PASS
Band41	15MHz	QPSK	40315	1RB#0	22.15	24.59	33.00	PASS
Band41	15MHz	QPSK	40315	1RB#38	22.29	24.73	33.00	PASS
Band41	15MHz	QPSK	40315	1RB#74	22.16	24.60	33.00	PASS
Band41	15MHz	QPSK	40315	75RB#0	21.29	23.73	33.00	PASS
Band41	15MHz	QPSK	40740	1RB#0	22.19	24.63	33.00	PASS
Band41	15MHz	QPSK	40740	1RB#38	22.24	24.68	33.00	PASS
Band41	15MHz	QPSK	40740	1RB#74	22.22	24.66	33.00	PASS
Band41	15MHz	QPSK	40740	75RB#0	21.22	23.66	33.00	PASS
Band41	15MHz	QPSK	41165	1RB#0	21.95	24.39	33.00	PASS
Band41	15MHz	QPSK	41165	1RB#38	22.16	24.60	33.00	PASS



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Band41	15MHz	QPSK	41165	1RB#74	22.12	24.56	33.00	PASS
Band41	15MHz	QPSK	41165	75RB#0	21.15	23.59	33.00	PASS
Band41	15MHz	16QAM	40315	1RB#0	21.53	23.97	33.00	PASS
Band41	15MHz	16QAM	40315	1RB#38	21.68	24.12	33.00	PASS
Band41	15MHz	16QAM	40315	1RB#74	21.60	24.04	33.00	PASS
Band41	15MHz	16QAM	40315	75RB#0	20.41	22.85	33.00	PASS
Band41	15MHz	16QAM	40740	1RB#0	21.14	23.58	33.00	PASS
Band41	15MHz	16QAM	40740	1RB#38	21.25	23.69	33.00	PASS
Band41	15MHz	16QAM	40740	1RB#74	21.20	23.64	33.00	PASS
Band41	15MHz	16QAM	40740	75RB#0	20.24	22.68	33.00	PASS
Band41	15MHz	16QAM	41165	1RB#0	21.30	23.74	33.00	PASS
Band41	15MHz	16QAM	41165	1RB#38	21.44	23.88	33.00	PASS
Band41	15MHz	16QAM	41165	1RB#74	21.44	23.88	33.00	PASS
Band41	15MHz	16QAM	41165	75RB#0	20.18	22.62	33.00	PASS
Band41	20MHz	QPSK	40340	1RB#0	22.16	24.60	33.00	PASS
Band41	20MHz	QPSK	40340	1RB#49	22.33	24.77	33.00	PASS
Band41	20MHz	QPSK	40340	1RB#99	22.06	24.50	33.00	PASS
Band41	20MHz	QPSK	40340	100RB#0	21.29	23.73	33.00	PASS
Band41	20MHz	QPSK	40740	1RB#0	22.04	24.48	33.00	PASS
Band41	20MHz	QPSK	40740	1RB#49	22.37	24.81	33.00	PASS
Band41	20MHz	QPSK	40740	1RB#99	22.14	24.58	33.00	PASS
Band41	20MHz	QPSK	40740	100RB#0	21.20	23.64	33.00	PASS
Band41	20MHz	QPSK	41140	1RB#0	21.90	24.34	33.00	PASS
Band41	20MHz	QPSK	41140	1RB#49	22.21	24.65	33.00	PASS
Band41	20MHz	QPSK	41140	1RB#99	22.12	24.56	33.00	PASS
Band41	20MHz	QPSK	41140	100RB#0	21.06	23.50	33.00	PASS
Band41	20MHz	16QAM	40340	1RB#0	21.33	23.77	33.00	PASS
Band41	20MHz	16QAM	40340	1RB#49	21.57	24.01	33.00	PASS
Band41	20MHz	16QAM	40340	1RB#99	21.31	23.75	33.00	PASS
Band41	20MHz	16QAM	40340	100RB#0	20.38	22.82	33.00	PASS
Band41	20MHz	16QAM	40740	1RB#0	20.69	23.13	33.00	PASS
Band41	20MHz	16QAM	40740	1RB#49	20.98	23.42	33.00	PASS
Band41	20MHz	16QAM	40740	1RB#99	20.77	23.21	33.00	PASS



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Band41	20MHz	16QAM	40740	100RB#0	20.29	22.73	33.00	PASS
Band41	20MHz	16QAM	41140	1RB#0	21.14	23.58	33.00	PASS
Band41	20MHz	16QAM	41140	1RB#49	21.41	23.85	33.00	PASS
Band41	20MHz	16QAM	41140	1RB#99	21.33	23.77	33.00	PASS
Band41	20MHz	16QAM	41140	100RB#0	20.15	22.59	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
Band41	20MHz	QPSK	40340	100RB#0	9.44	13	PASS
Band41	20MHz	QPSK	40740	100RB#0	9.36	13	PASS
Band41	20MHz	QPSK	41140	100RB#0	9.30	13	PASS
Band41	20MHz	16QAM	40340	100RB#0	10.22	13	PASS
Band41	20MHz	16QAM	40740	100RB#0	10.12	13	PASS
Band41	20MHz	16QAM	41140	100RB#0	10.02	13	PASS



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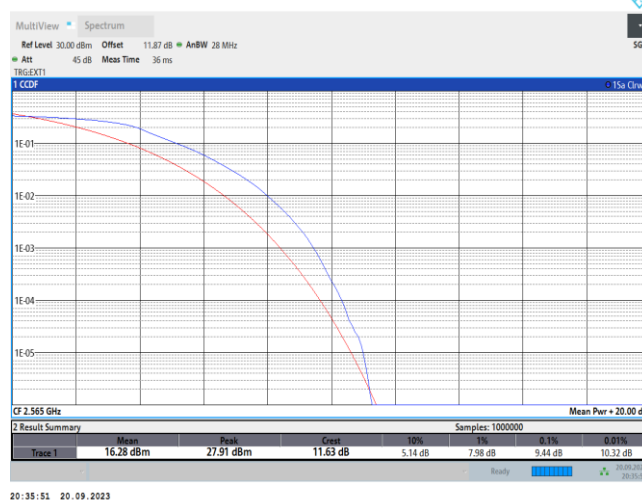
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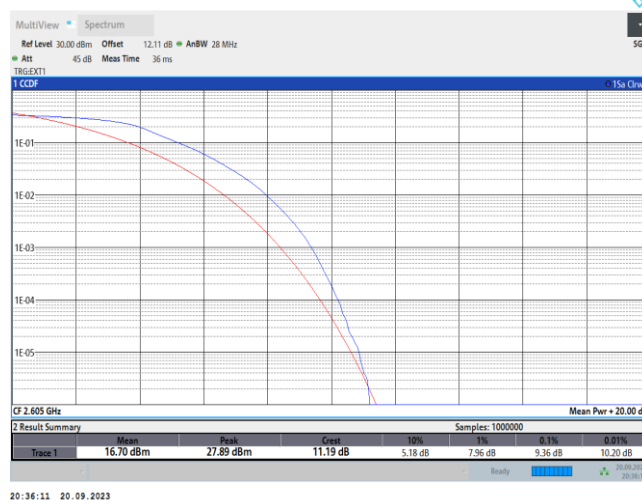
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Test Graphs

Band41-20MHz-QPSK-40340-100RB#0



Band41-20MHz-QPSK-40740-100RB#0



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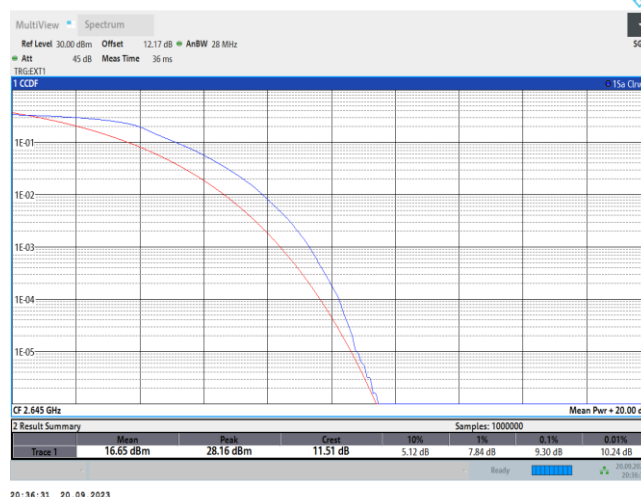
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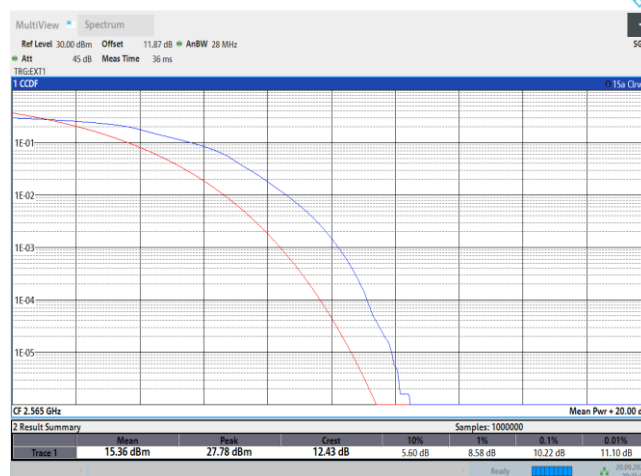
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Band41-20MHz-QPSK-41140-100RB#0



20:36:31 20.09.2023

Band41-20MHz-16QAM-40340-100RB#0



20:36:00 20.09.2023



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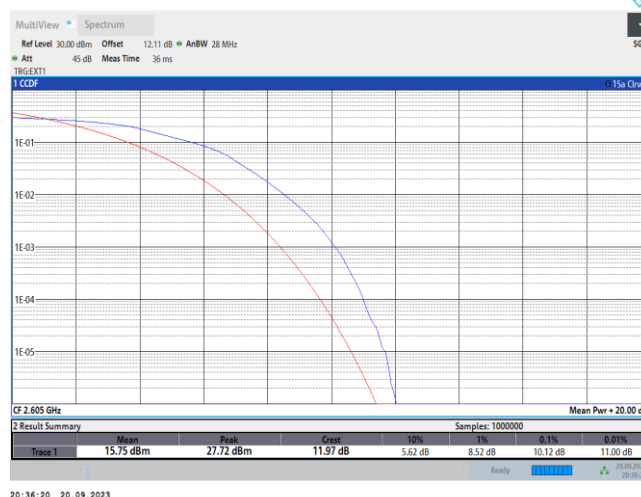
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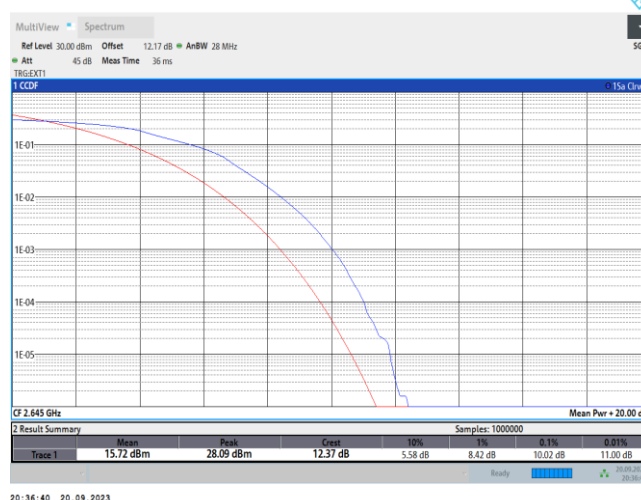
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Band41-20MHz-16QAM-40740-100RB#0



Band41-20MHz-16QAM-41140-100RB#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
41(2555-2655)	5MHz	QPSK	40265	25RB#0	4.472	4.83	PASS
41(2555-2655)	5MHz	16QAM	40265	25RB#0	4.498	5.51	PASS
41(2555-2655)	5MHz	QPSK	40690	25RB#0	4.487	5.13	PASS
41(2555-2655)	5MHz	16QAM	40690	25RB#0	4.502	5.27	PASS
41(2555-2655)	5MHz	QPSK	41215	25RB#0	4.49	5.06	PASS
41(2555-2655)	5MHz	16QAM	41215	25RB#0	4.5	5.34	PASS
41(2555-2655)	10MHz	QPSK	40290	50RB#0	8.996	9.37	PASS
41(2555-2655)	10MHz	16QAM	40290	50RB#0	8.929	9.60	PASS
41(2555-2655)	10MHz	QPSK	40690	50RB#0	8.949	9.70	PASS
41(2555-2655)	10MHz	16QAM	40690	50RB#0	8.925	9.60	PASS
41(2555-2655)	10MHz	QPSK	41190	50RB#0	8.935	9.67	PASS
41(2555-2655)	10MHz	16QAM	41190	50RB#0	8.96	9.33	PASS
41(2555-2655)	15MHz	QPSK	40315	75RB#0	13.541	17.55	PASS
41(2555-2655)	15MHz	16QAM	40315	75RB#0	13.486	14.85	PASS
41(2555-2655)	15MHz	QPSK	40690	75RB#0	13.556	17.90	PASS
41(2555-2655)	15MHz	16QAM	40690	75RB#0	13.496	14.90	PASS
41(2555-2655)	15MHz	QPSK	41165	75RB#0	13.526	17.50	PASS
41(2555-2655)	15MHz	16QAM	41165	75RB#0	13.486	14.85	PASS
41(2555-2655)	20MHz	QPSK	40340	100RB#0	18.091	18.87	PASS
41(2555-2655)	20MHz	16QAM	40340	100RB#0	17.941	20.20	PASS
41(2555-2655)	20MHz	QPSK	40690	100RB#0	17.954	20.53	PASS
41(2555-2655)	20MHz	16QAM	40690	100RB#0	17.947	20.27	PASS
41(2555-2655)	20MHz	QPSK	41140	100RB#0	17.964	20.20	PASS
41(2555-2655)	20MHz	16QAM	41140	100RB#0	17.929	20.60	PASS



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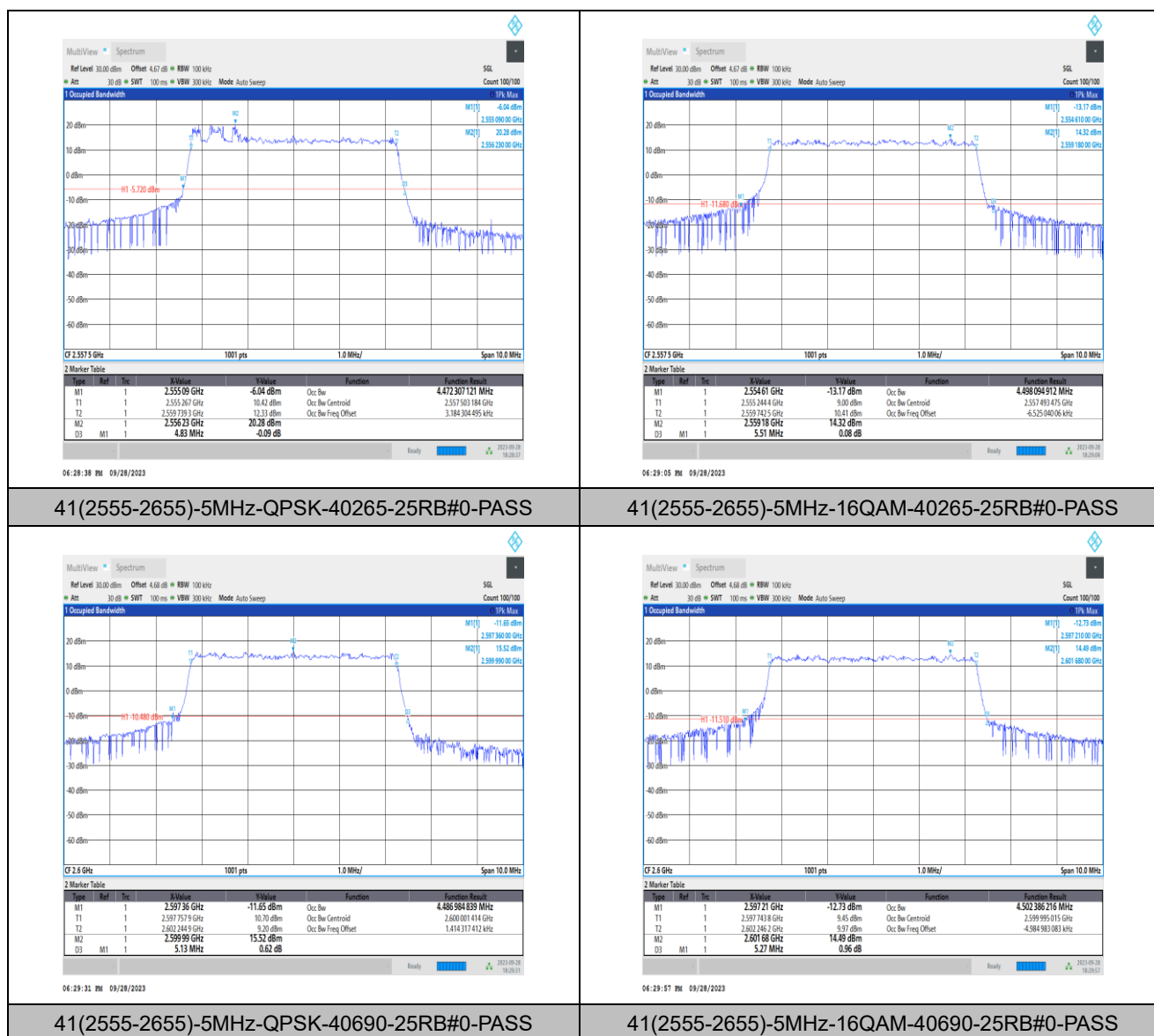
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Test Graphs



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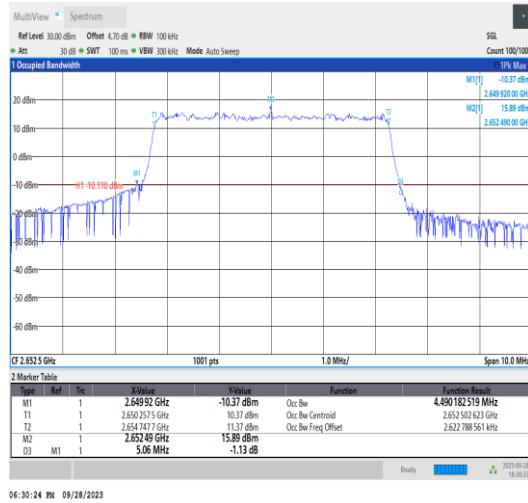
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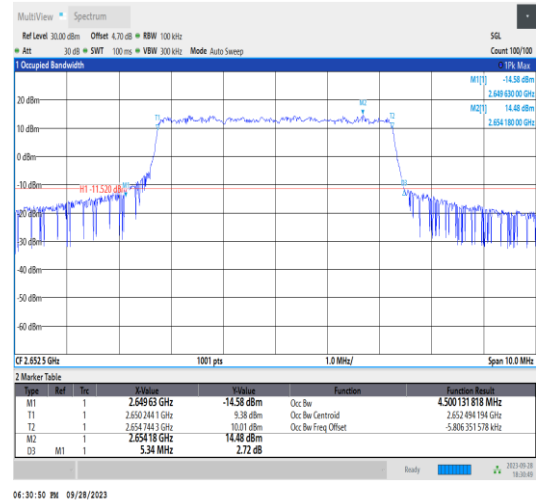
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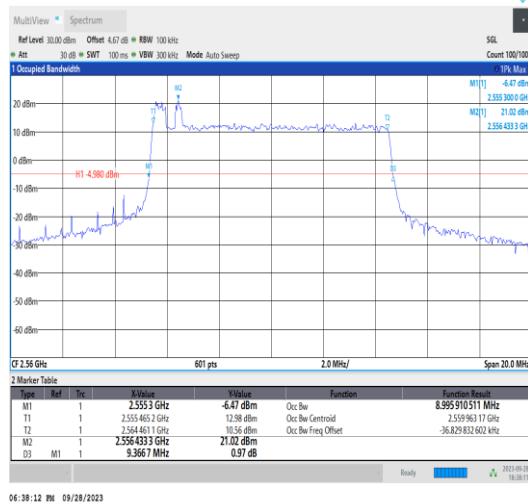
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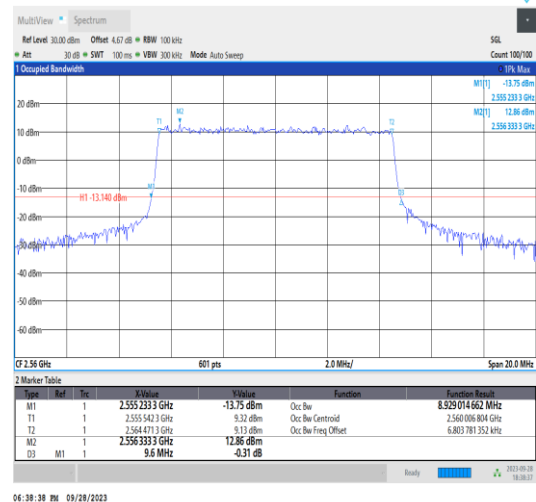
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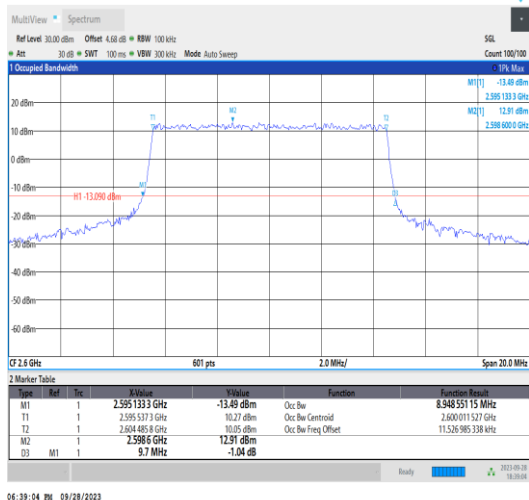
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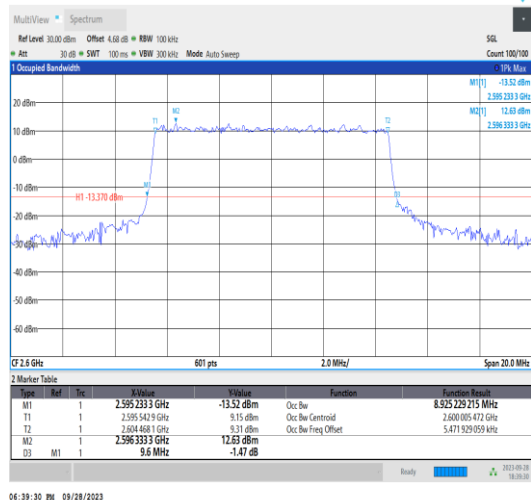
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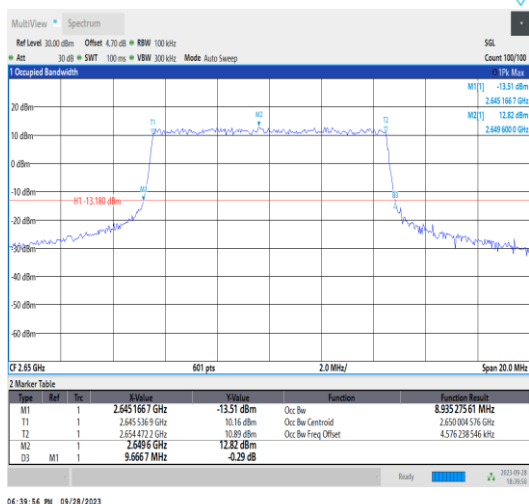
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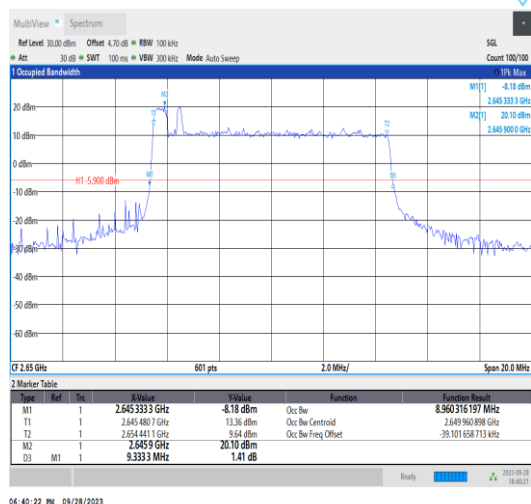
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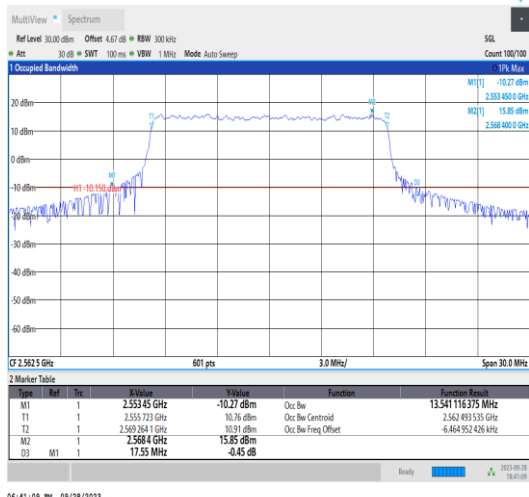
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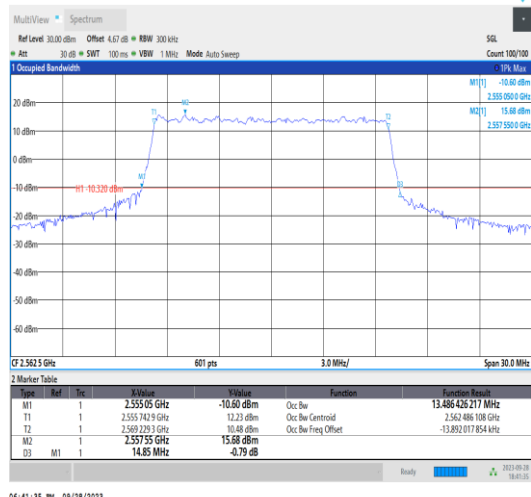
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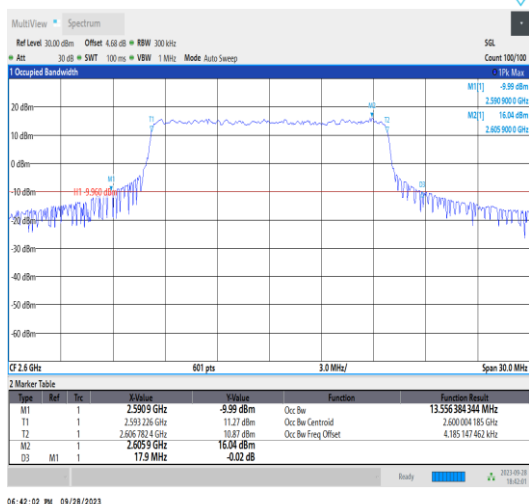
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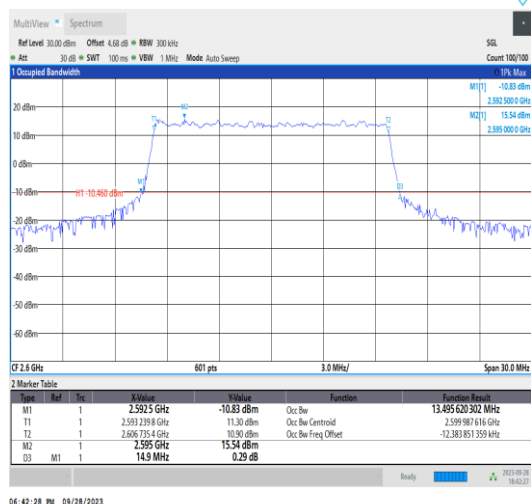
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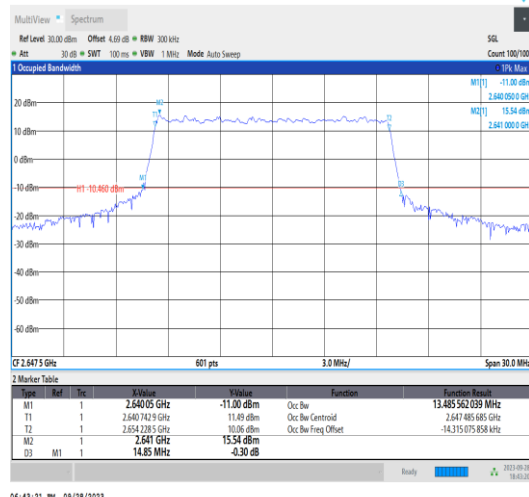
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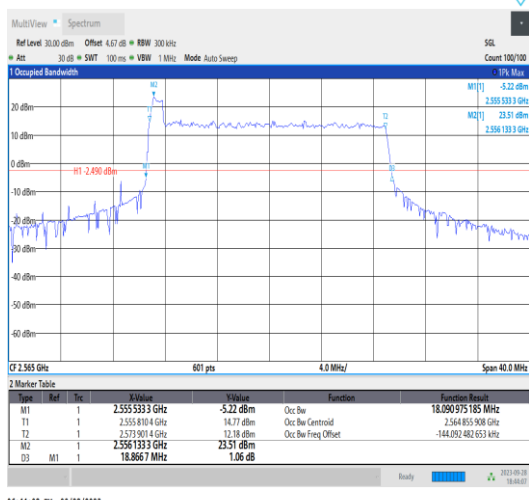
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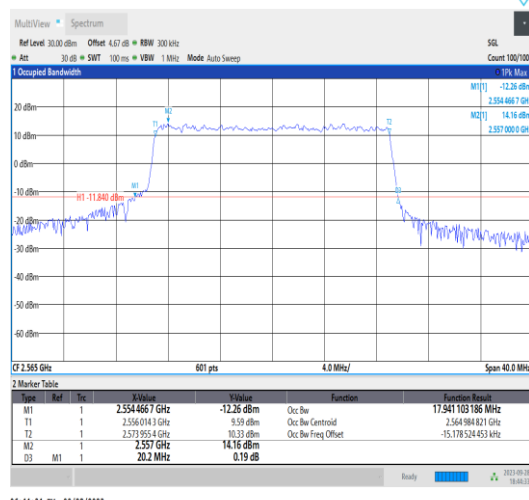
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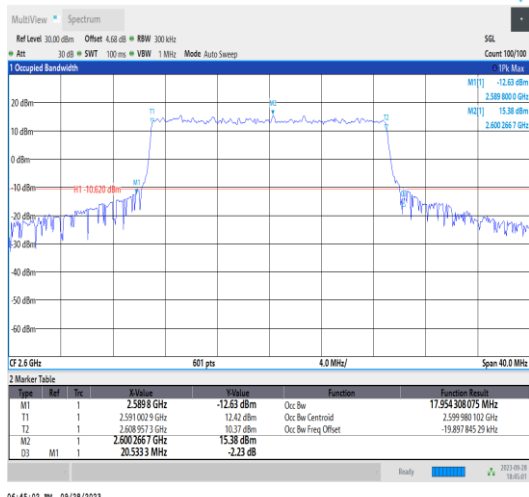
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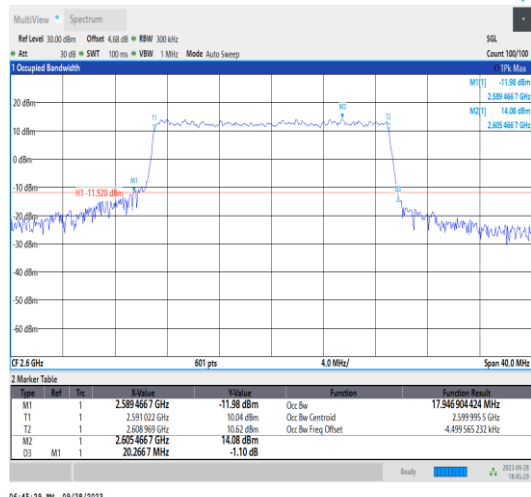
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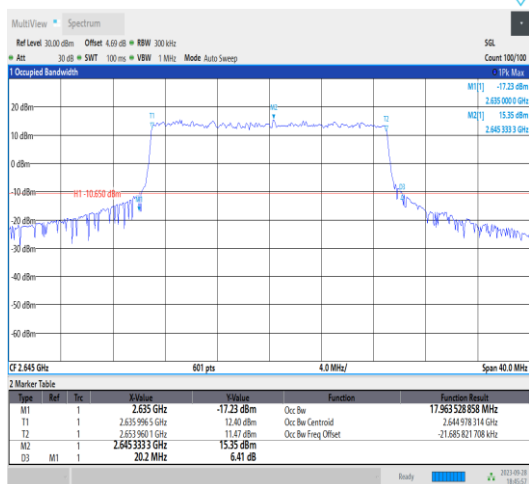
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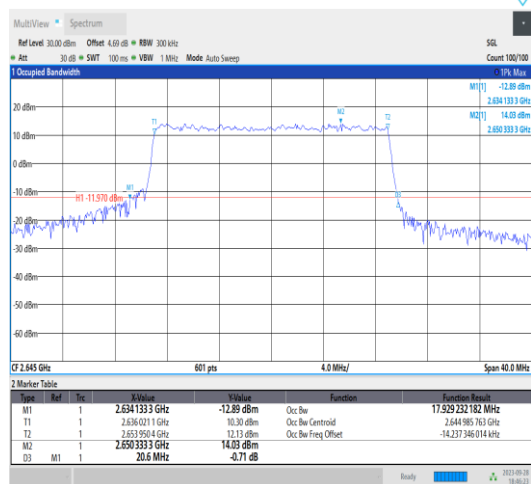
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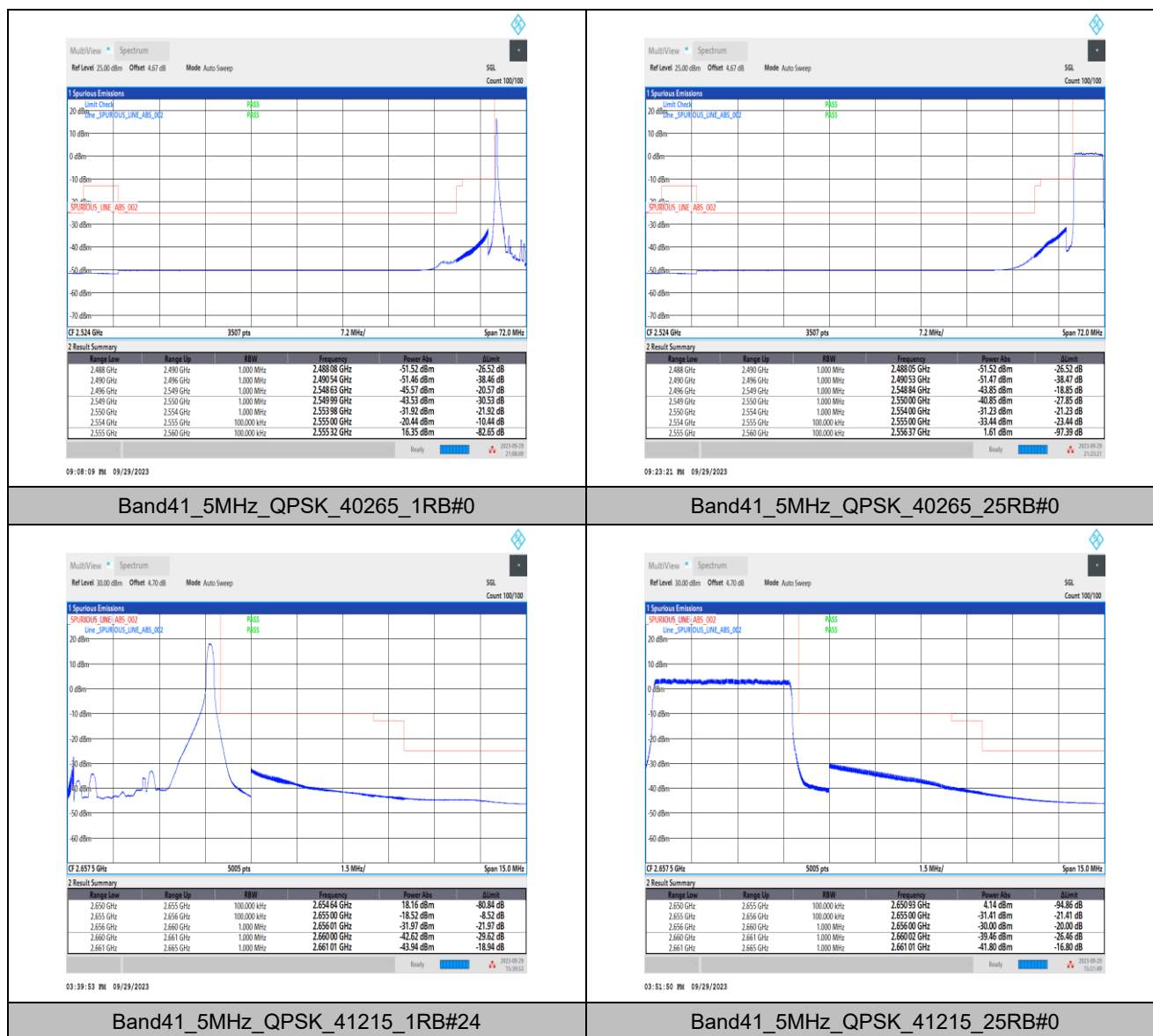
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Band Edge

Test Graphs



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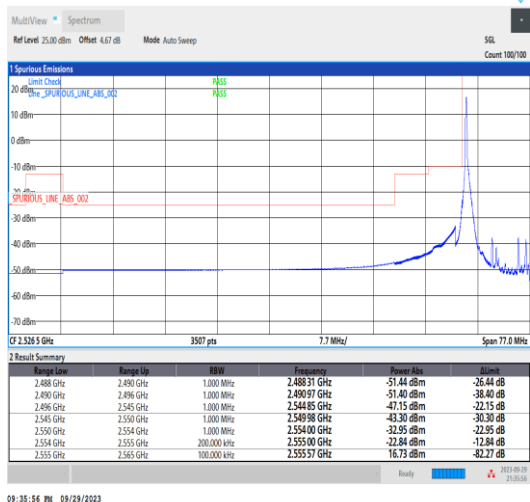
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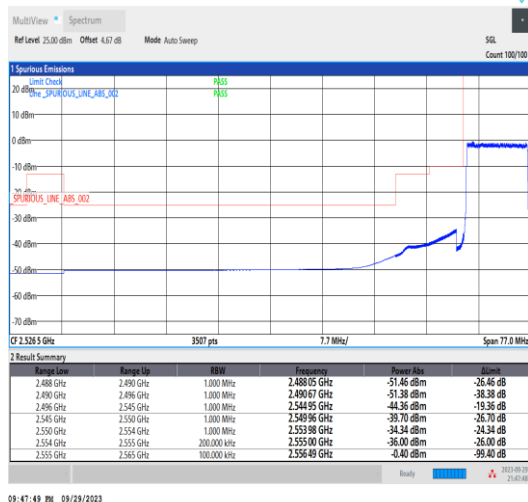
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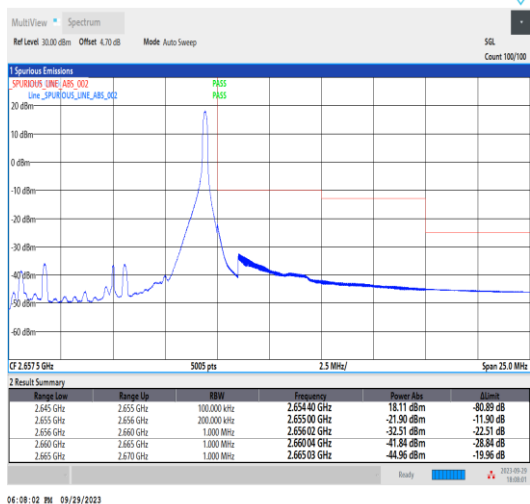
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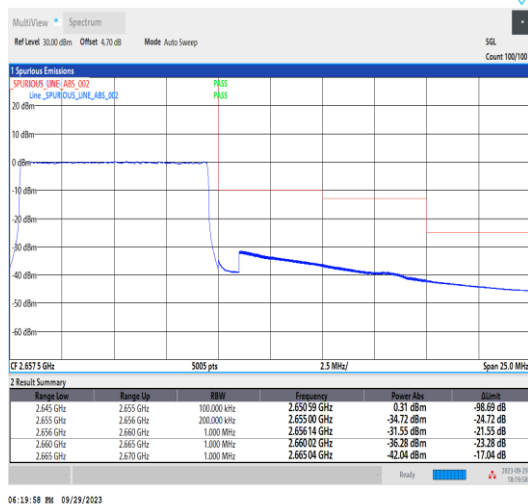
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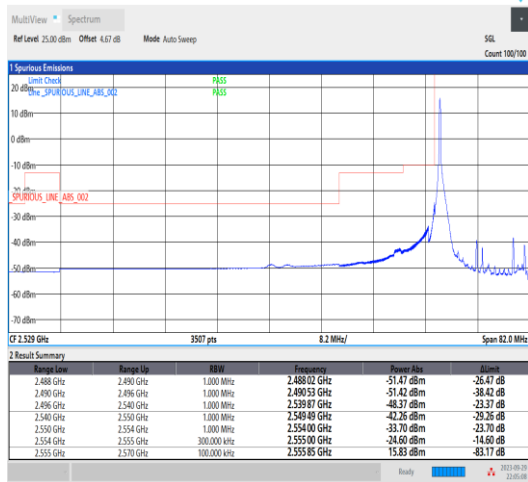
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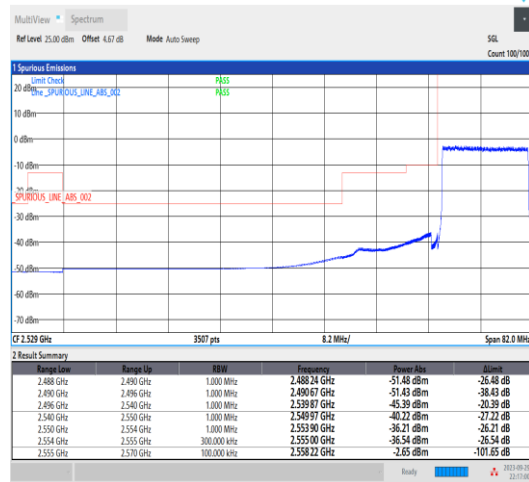
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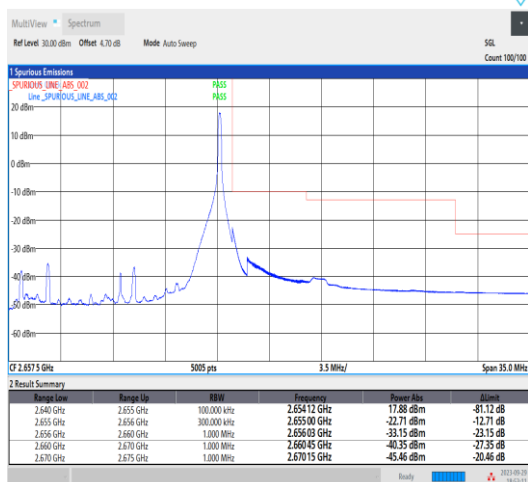
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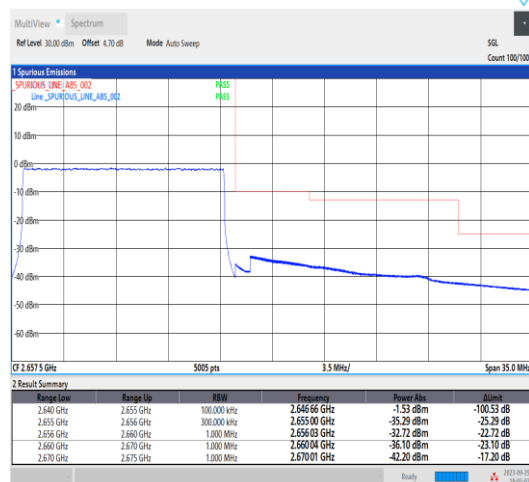
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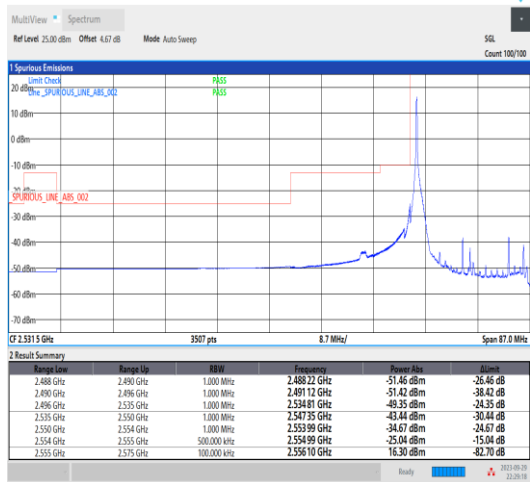
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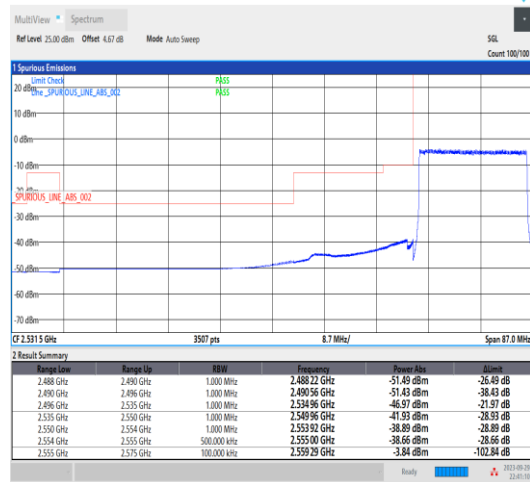
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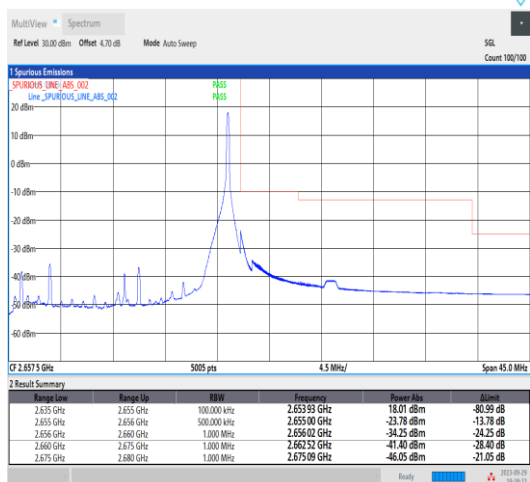
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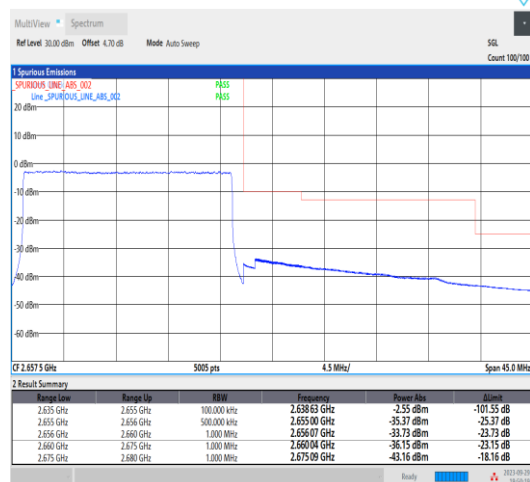
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07:50:20 PM 09/29/2023

Band41_20MHz_QPSK_41140_100RB#0



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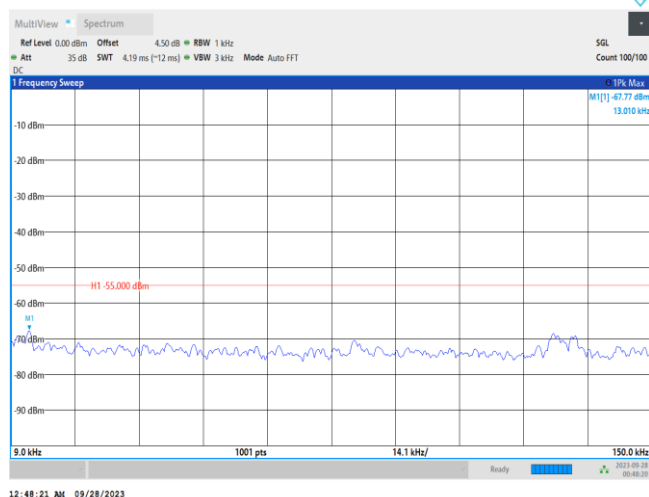
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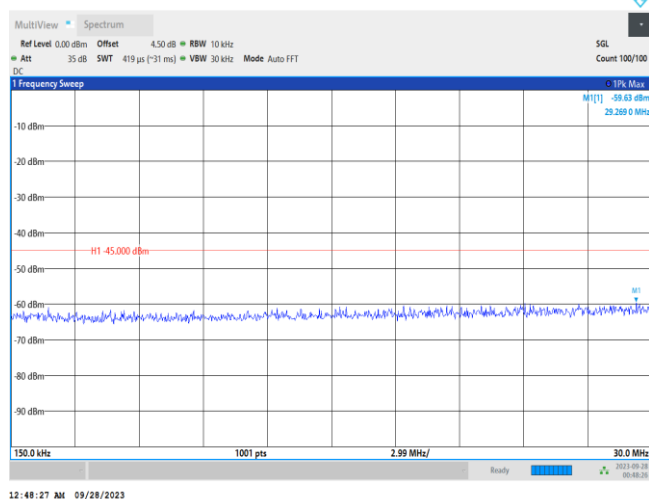
Conducted Spurious Emission

Test Graphs

Band41-20MHz-QPSK-40340-1RB#0-Range1:0.009~0.15MHz



Band41-20MHz-QPSK-40340-1RB#0-Range2:0.15~30MHz



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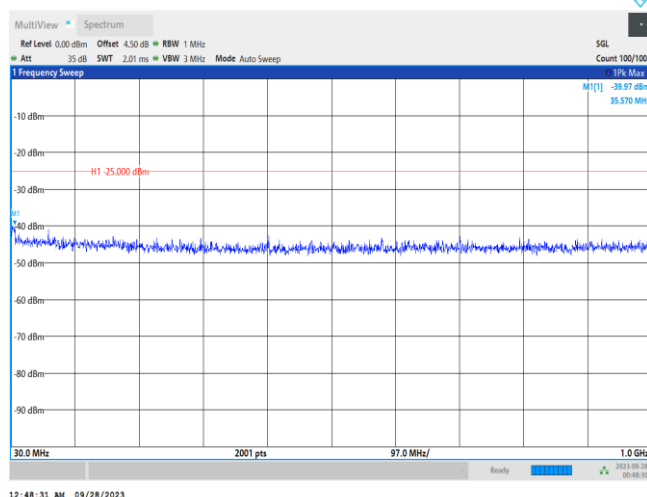
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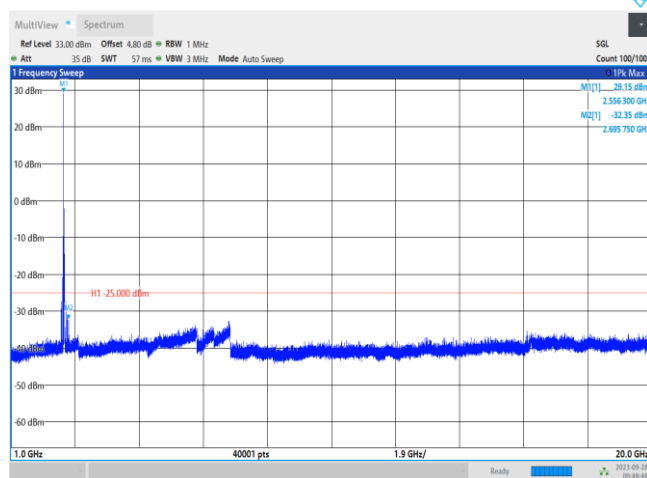
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Band41-20MHz-QPSK-40340-1RB#0-Range3:30~1000MHz



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Band41-20MHz-QPSK-40340-1RB#0-Range4:1000~20000MHz



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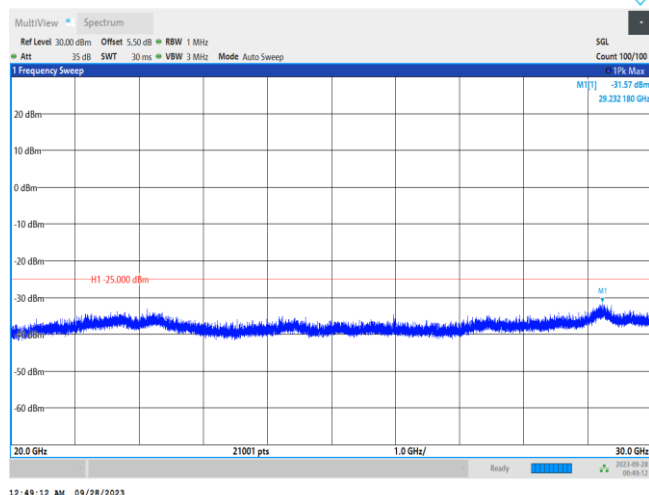
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Band41-20MHz-QPSK-40340-1RB#0-Range5:20000~30000MHz



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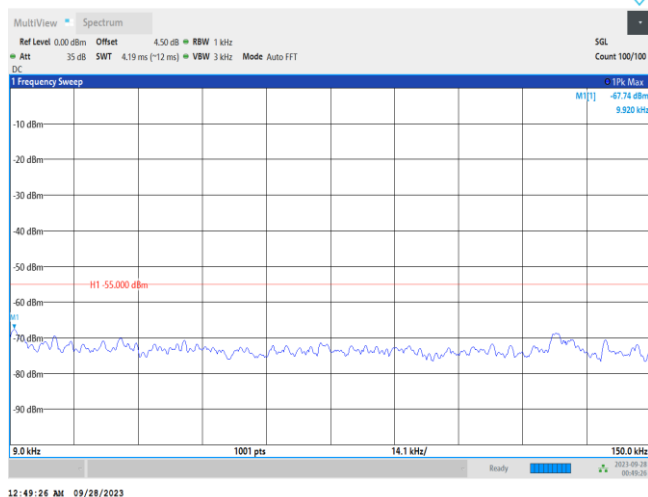
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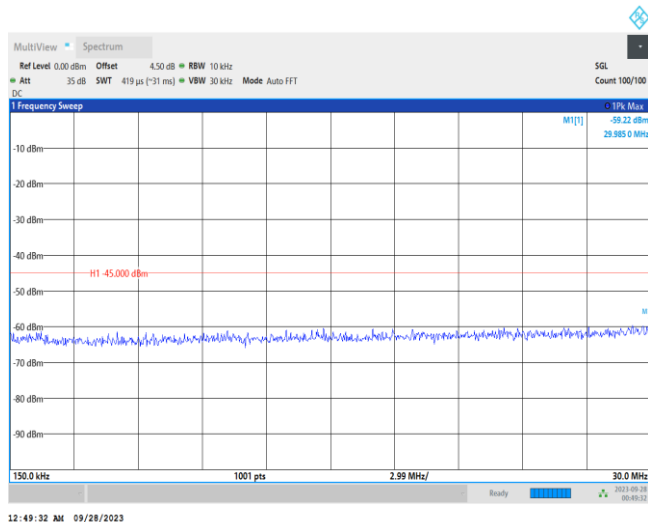
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Band41-20MHz-QPSK-40620-1RB#0-Range1:0.009~0.15MHz



Band41-20MHz-QPSK-40620-1RB#0-Range2:0.15~30MHz



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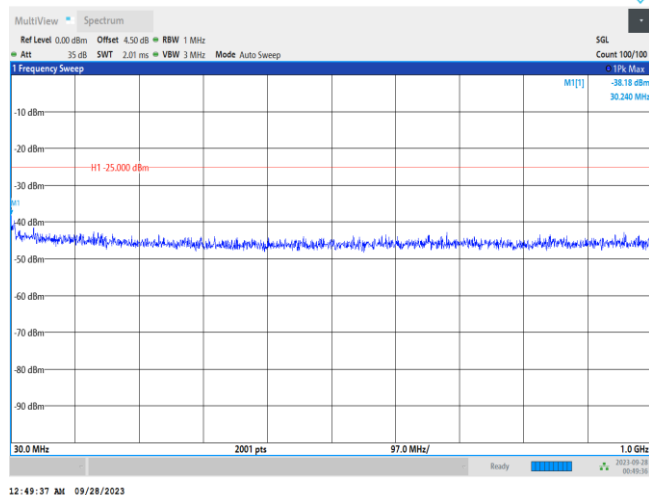


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Band41-20MHz-QPSK-40620-1RB#0-Range3:30~1000MHz



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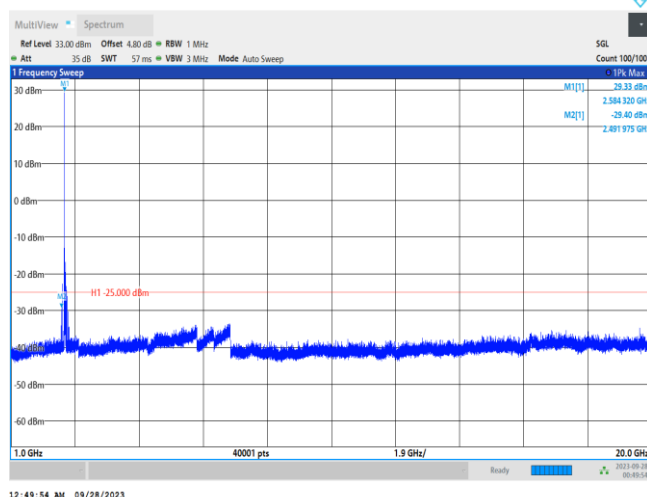
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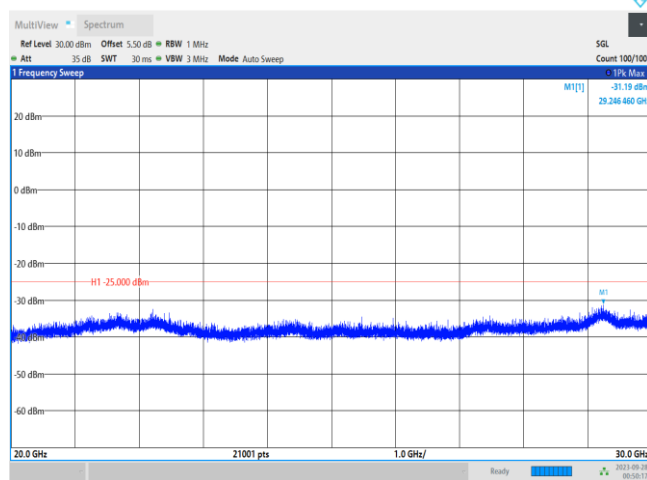
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Band41-20MHz-QPSK-40620-1RB#0-Range4:1000~20000MHz



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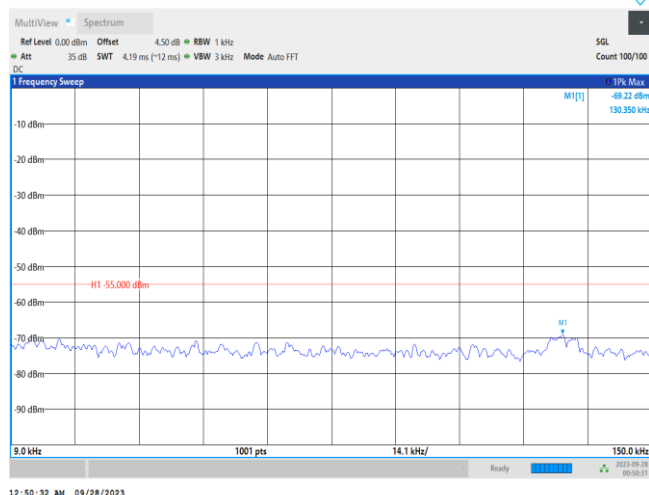
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Band41-20MHz-QPSK-41140-1RB#0-Range1:0.009~0.15MHz



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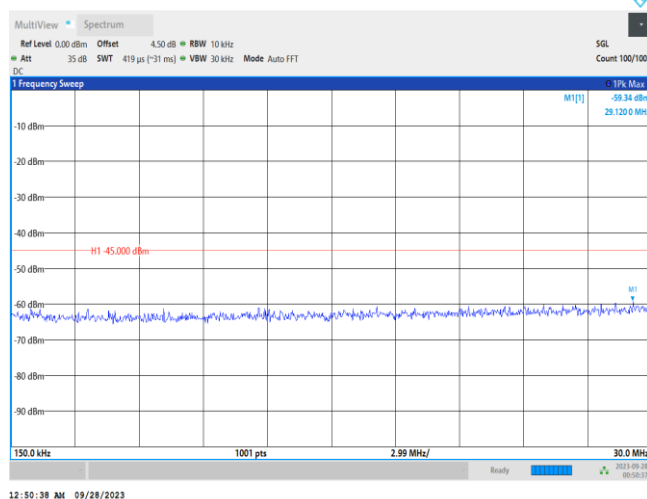


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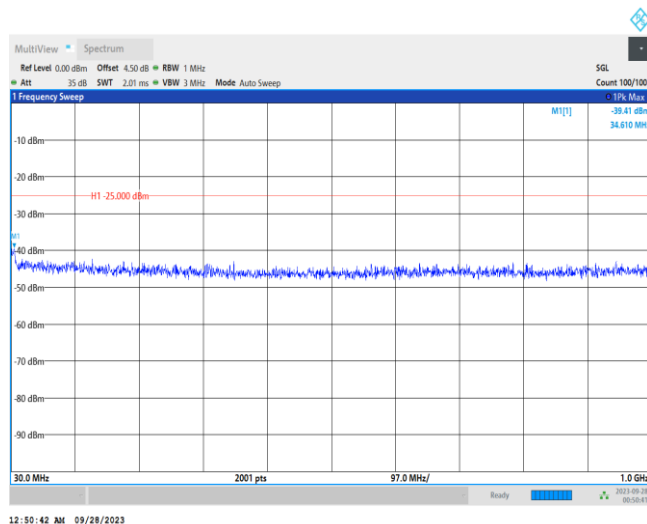
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Band41-20MHz-QPSK-41140-1RB#0-Range2:0.15~30MHz



Band41-20MHz-QPSK-41140-1RB#0-Range3:30~1000MHz



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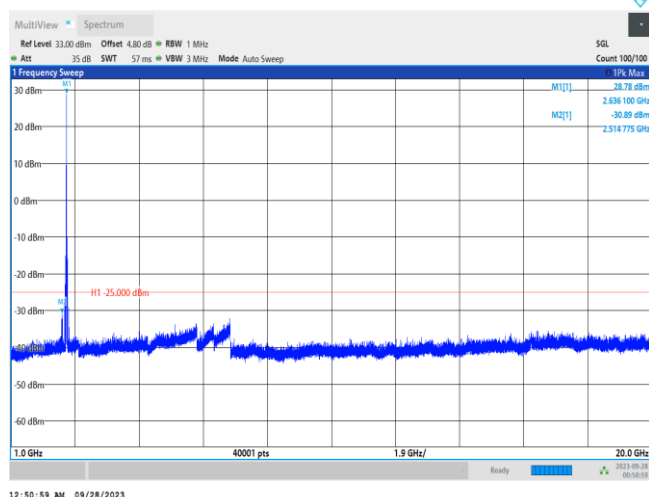
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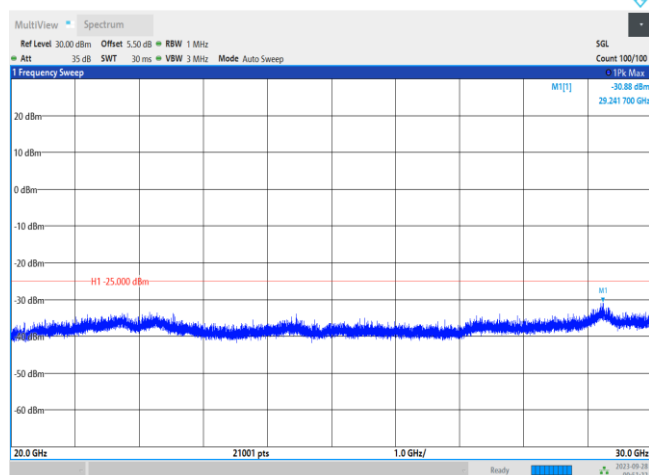
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Band41-20MHz-QPSK-41140-1RB#0-Range4:1000~20000MHz



12:50:59 AM 09/28/2023

Band41-20MHz-QPSK-41140-1RB#0-Range5:20000~30000MHz



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Field Strength of Spurious Radiation

Test Band = LTE_41

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2971	37.54	-17.13	28.43	-46.42	-25.00	21.42	Horizontal
2	3899	47.58	-44.21	29.70	-62.19	-25.00	37.19	Horizontal
3	5524.5	49.77	-41.75	32.30	-54.94	-25.00	29.94	Horizontal
4	7404	44.05	-38.28	36.71	-52.78	-25.00	27.78	Horizontal
5	11040	43.13	-37.22	40.14	-49.21	-25.00	24.21	Horizontal
6	17998	40.96	-43.06	48.16	-49.20	-25.00	24.20	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2996	37.58	-17.43	28.58	-46.53	-25.00	21.53	Vertical
2	3933	47.42	-44.19	29.83	-62.20	-25.00	37.20	Vertical
3	5524.5	49.39	-41.75	32.30	-55.32	-25.00	30.32	Vertical
4	7466	43.80	-38.29	36.83	-52.92	-25.00	27.92	Vertical
5	9896	42.10	-34.99	38.57	-49.58	-25.00	24.58	Vertical
6	17993	41.23	-43.10	48.07	-49.06	-25.00	24.06	Vertical



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Test Band = LTE_41

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2998	37.66	-17.44	28.59	-46.45	-25.00	21.45	Horizontal
2	4265.5	46.85	-43.46	29.71	-62.16	-25.00	37.16	Horizontal
3	5524.5	49.65	-41.75	32.30	-55.06	-25.00	30.06	Horizontal
4	7409.5	44.25	-38.28	36.72	-52.57	-25.00	27.57	Horizontal
5	9880.5	42.52	-35.11	38.44	-49.41	-25.00	24.41	Horizontal
6	17988.5	41.11	-43.13	47.99	-49.29	-25.00	24.29	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2983	37.68	-17.34	28.50	-46.42	-25.00	21.42	Vertical
2	3914.5	47.29	-44.20	29.76	-62.41	-25.00	37.41	Vertical
3	5524.5	48.99	-41.75	32.30	-55.72	-25.00	30.72	Vertical
4	7474.5	44.16	-38.29	36.85	-52.54	-25.00	27.54	Vertical
5	10975	43.29	-37.09	40.13	-48.93	-25.00	23.93	Vertical
6	16599.5	42.19	-35.34	39.50	-48.91	-25.00	23.91	Vertical



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Test Band = LTE_41
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2992	37.44	-17.42	28.55	-46.69	-25.00	21.69	Horizontal
2	3927.5	47.14	-44.19	29.81	-62.50	-25.00	37.50	Horizontal
3	5524.5	50.54	-41.75	32.30	-54.17	-25.00	29.17	Horizontal
4	7424.5	44.75	-38.28	36.75	-52.04	-25.00	27.04	Horizontal
5	10974.5	43.00	-37.09	40.13	-49.22	-25.00	24.22	Horizontal
6	17987.5	41.31	-43.14	47.98	-49.11	-25.00	24.11	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2986.5	37.35	-17.38	28.52	-46.77	-25.00	21.77	Vertical
2	3604.5	48.21	-44.36	28.94	-62.47	-25.00	37.47	Vertical
3	5524.5	48.78	-41.75	32.30	-55.93	-25.00	30.93	Vertical
4	8368	43.65	-36.99	36.37	-52.23	-25.00	27.23	Vertical
5	10966	42.88	-37.13	40.13	-49.38	-25.00	24.38	Vertical
6	17993	41.10	-43.10	48.07	-49.19	-25.00	24.19	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

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40740	100RB#0	VL	NT	7.82	0.003002	PASS
Band41	20MHz	QPSK	40740	100RB#0	VN	NT	-17.71	-0.006798	PASS
Band41	20MHz	QPSK	40740	100RB#0	VH	NT	-15.68	-0.006019	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40740	100RB#0	NV	-30	-11.73	-0.004503	PASS
Band41	20MHz	QPSK	40740	100RB#0	NV	-20	-14.31	-0.005493	PASS
Band41	20MHz	QPSK	40740	100RB#0	NV	-10	-19.37	-0.007436	PASS
Band41	20MHz	QPSK	40740	100RB#0	NV	0	-14.20	-0.005451	PASS
Band41	20MHz	QPSK	40740	100RB#0	NV	10	-15.66	-0.006012	PASS
Band41	20MHz	QPSK	40740	100RB#0	NV	20	-12.70	-0.004875	PASS
Band41	20MHz	QPSK	40740	100RB#0	NV	30	-16.18	-0.006211	PASS
Band41	20MHz	QPSK	40740	100RB#0	NV	40	-17.80	-0.006833	PASS
Band41	20MHz	QPSK	40740	100RB#0	NV	50	-20.66	-0.007931	PASS

---End of Attachment---



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