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Appendix B.5

LTE Band 5



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.99	20.24	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.14	20.39	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.98	20.23	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	23.17	19.42	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.98	20.23	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.13	20.38	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.96	20.21	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.15	19.4	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.90	20.15	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.93	20.18	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.62	19.87	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	23.09	19.34	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.20	19.45	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.33	19.58	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.17	19.42	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.24	18.49	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.32	19.57	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.38	19.63	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.21	19.46	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.23	18.48	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.19	19.44	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.21	19.46	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.16	19.41	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.17	18.42	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	21.78	18.03	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	21.90	18.15	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	21.73	17.98	38.45	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	20.67	16.92	38.45	PASS



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Band5	1.4MHz	64QAM	20525	1RB#0	21.77	18.02	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	21.93	18.18	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	21.77	18.02	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	20.65	16.9	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	21.70	17.95	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	21.99	18.24	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	21.77	18.02	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	20.74	16.99	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.06	20.31	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.06	20.31	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.06	20.31	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.14	19.39	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.08	20.33	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.03	20.28	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.02	20.27	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.12	19.37	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.02	20.27	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.98	20.23	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.99	20.24	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.11	19.36	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.33	19.58	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.35	19.6	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.31	19.56	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.14	18.39	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.34	19.59	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.28	19.53	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.23	19.48	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.13	18.38	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.27	19.52	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.20	19.45	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.23	19.48	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.10	18.35	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	21.83	18.08	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	21.89	18.14	38.45	PASS



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Band5	3MHz	64QAM	20415	1RB#14	21.88	18.13	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	20.64	16.89	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	21.82	18.07	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	21.80	18.05	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	21.71	17.96	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	20.67	16.92	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	21.85	18.1	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	21.82	18.07	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	21.79	18.04	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	20.73	16.98	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.95	20.2	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.19	20.44	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.92	20.17	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.14	19.39	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.01	20.26	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.25	20.5	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.90	20.15	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.15	19.4	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.93	20.18	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.15	20.4	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.87	20.12	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.10	19.35	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.23	19.48	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.45	19.7	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.21	19.46	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.13	18.38	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.21	19.46	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.54	19.79	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.14	19.39	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.13	18.38	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.25	19.5	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.39	19.64	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.10	19.35	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.10	18.35	38.45	PASS



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Band5	5MHz	64QAM	20425	1RB#12	21.96	18.21	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	21.71	17.96	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	20.69	16.94	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	21.71	17.96	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	21.96	18.21	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	21.63	17.88	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	20.70	16.95	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	21.81	18.06	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	22.03	18.28	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	21.74	17.99	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	20.73	16.98	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.06	20.31	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.12	20.37	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.02	20.27	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.16	19.41	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.08	20.33	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.16	20.41	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.99	20.24	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.18	19.43	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.98	20.23	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.10	20.35	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.96	20.21	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.17	19.42	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.37	19.62	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.35	19.6	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.38	19.63	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.14	18.39	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.38	19.63	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.44	19.69	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.22	19.47	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.17	18.42	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.26	19.51	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.36	19.61	38.45	PASS



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Band5	10MHz	16QAM	20600	50RB#0	22.13	18.38	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	21.81	18.06	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	21.83	18.08	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	21.76	18.01	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	20.69	16.94	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	21.85	18.1	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	21.99	18.24	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	21.74	17.99	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	20.73	16.98	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	21.72	17.97	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	22.01	18.26	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	21.81	18.06	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	20.77	17.02	38.45	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.32	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.14	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.24	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.08	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.82	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.04	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.46	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.30	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.44	13	PASS



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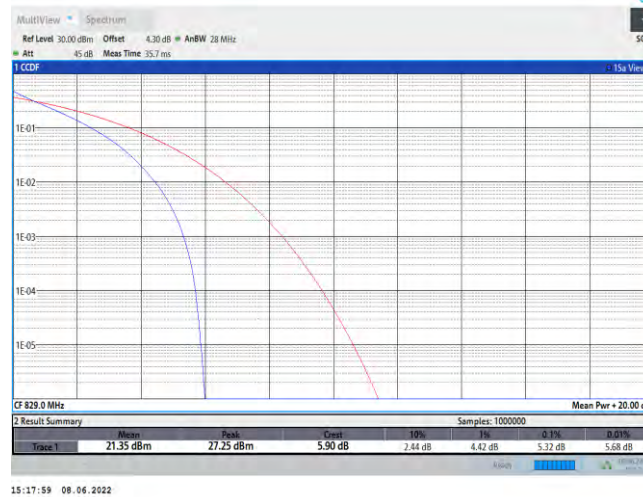
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Test Graphs

Band5-10MHz-QPSK-20450-50RB#0



Band5-10MHz-QPSK-20525-50RB#0



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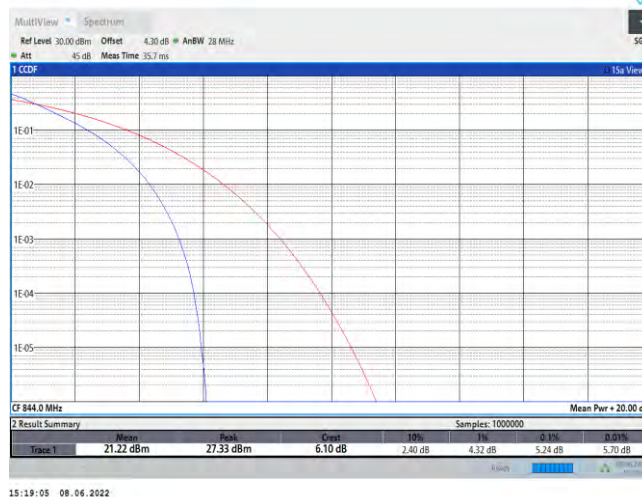
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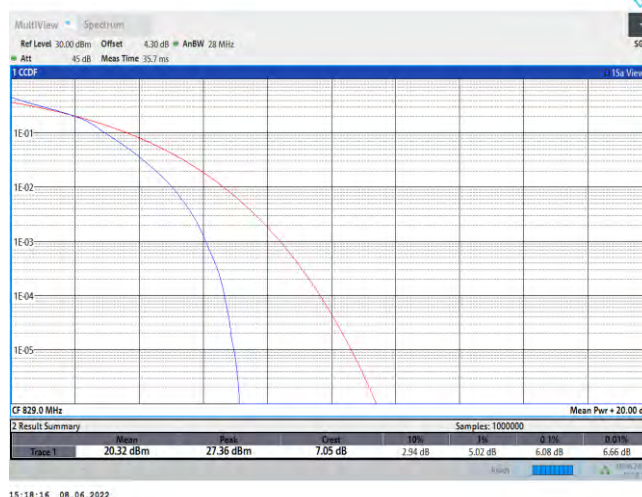
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Band5-10MHz-QPSK-20600-50RB#0



Band5-10MHz-16QAM-20450-50RB#0



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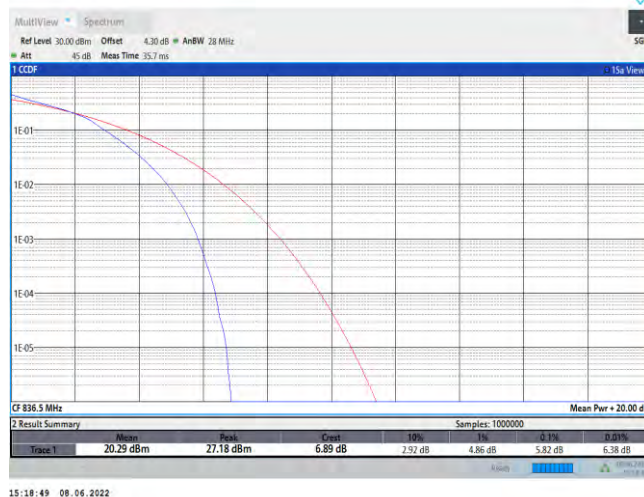
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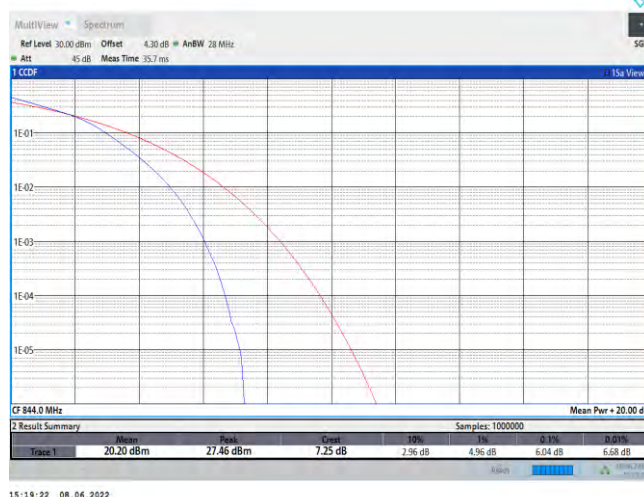
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Band5-10MHz-16QAM-20525-50RB#0



Band5-10MHz-16QAM-20600-50RB#0



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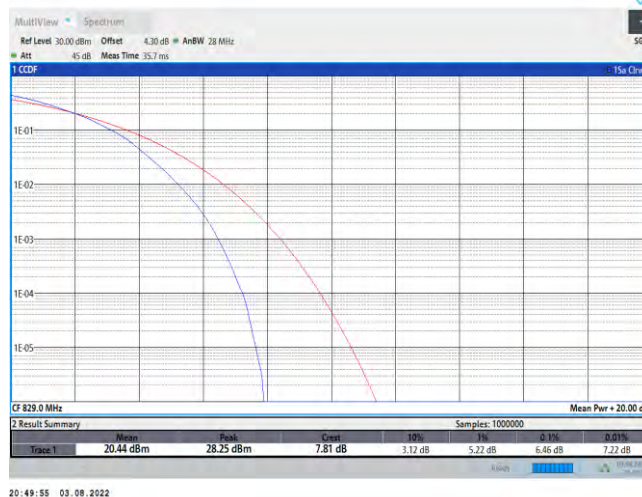
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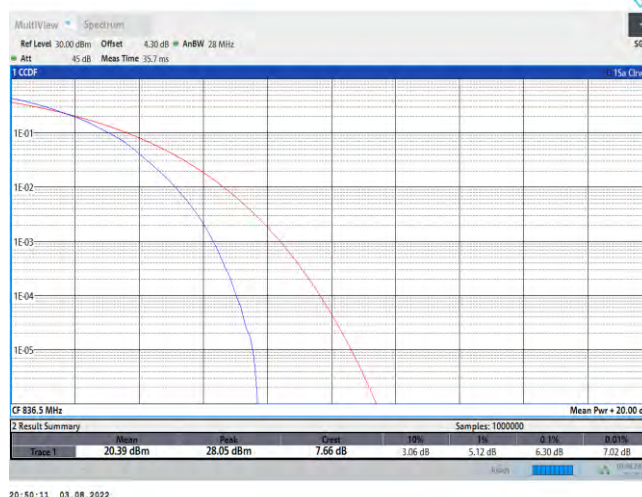
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Band5-10MHz-64QAM-20450-50RB#0



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Band5-10MHz-64QAM-20525-50RB#0



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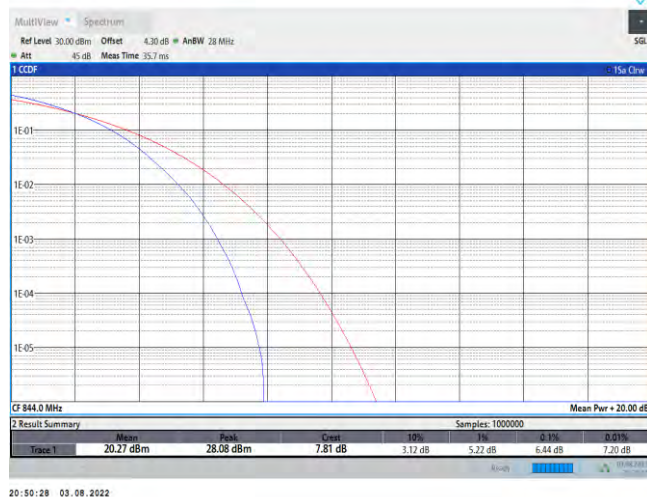
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Band5-10MHz-64QAM-20600-50RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	64QAM	20525	50RB#0	PASS	PASS



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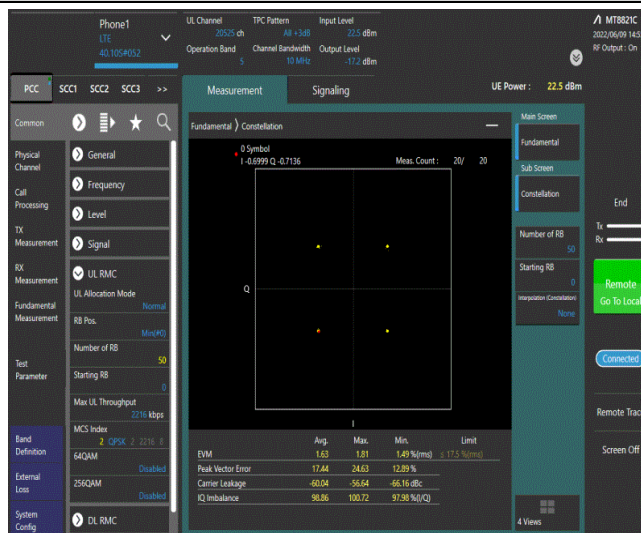
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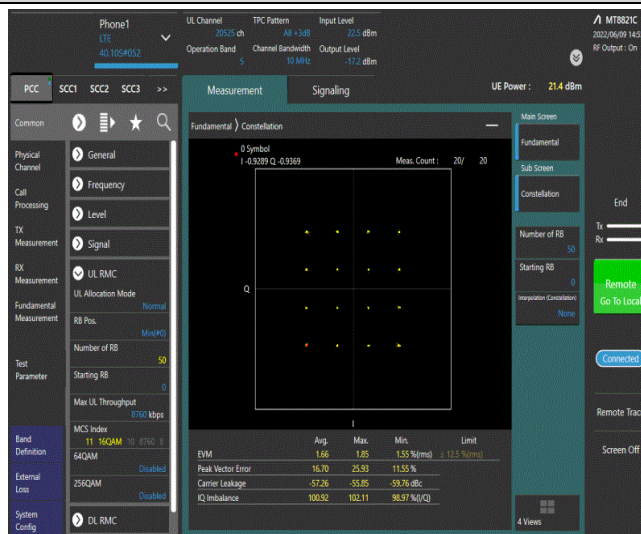
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Test Graphs

Band5-10MHz-QPSK-20525-50RB#0



Band5-10MHz-16QAM-20525-50RB#0



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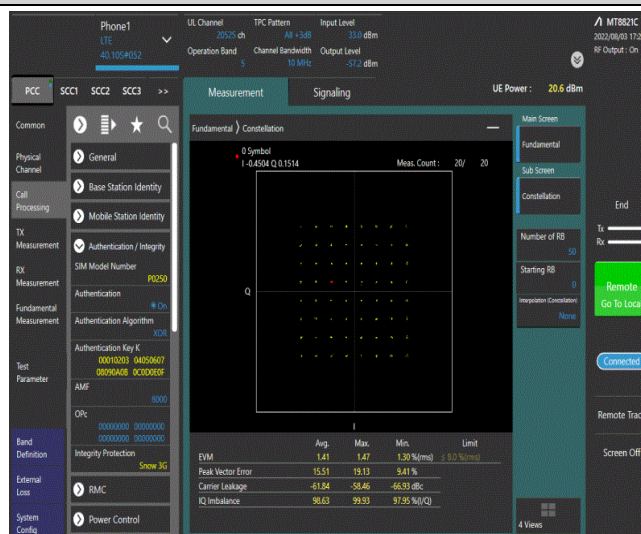
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Band5-10MHz-64QAM-20525-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.085	1.28	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.084	1.28	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.085	1.28	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.097	1.31	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.097	1.30	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.099	1.31	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.095	1.31	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.095	1.30	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.096	1.31	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.685	2.88	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.68	2.91	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.684	2.90	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.678	2.91	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.679	2.91	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.678	2.90	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.679	2.90	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.68	2.90	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.679	2.93	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.466	4.81	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.468	4.83	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.464	4.83	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.464	4.85	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.461	4.86	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.459	4.86	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.476	4.83	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.473	4.85	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.47	4.86	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.926	9.62	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.926	9.56	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.928	9.54	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.913	9.54	PASS



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Band5	10MHz	16QAM	20525	50RB#0	8.912	9.60	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.91	9.56	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.939	9.66	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.929	9.60	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.929	9.60	PASS



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Band5-1.4MHz-QPSK-20407-6RB#0



Band5-1.4MHz-QPSK-20525-6RB#0



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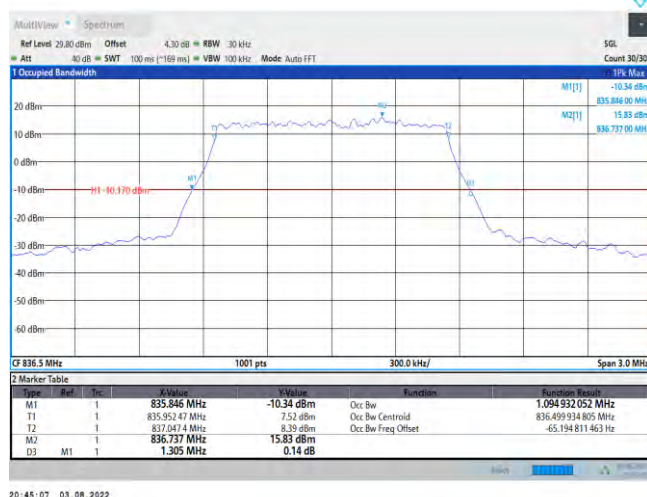
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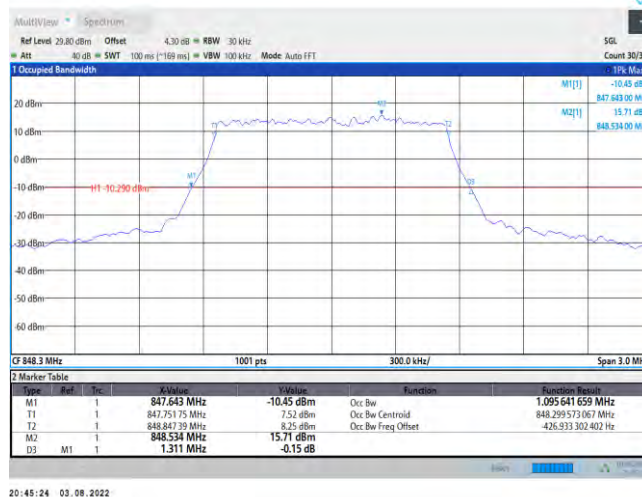
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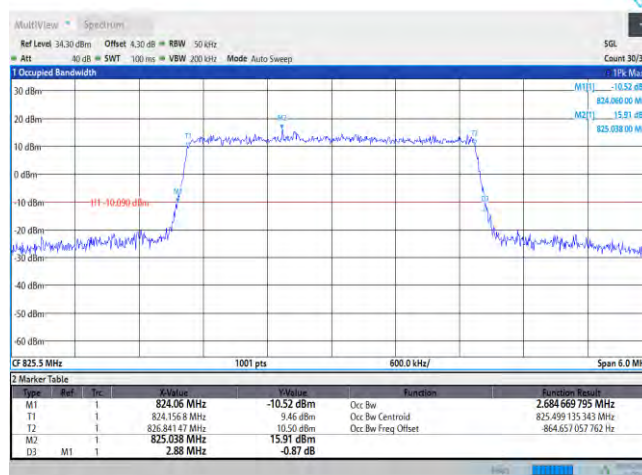
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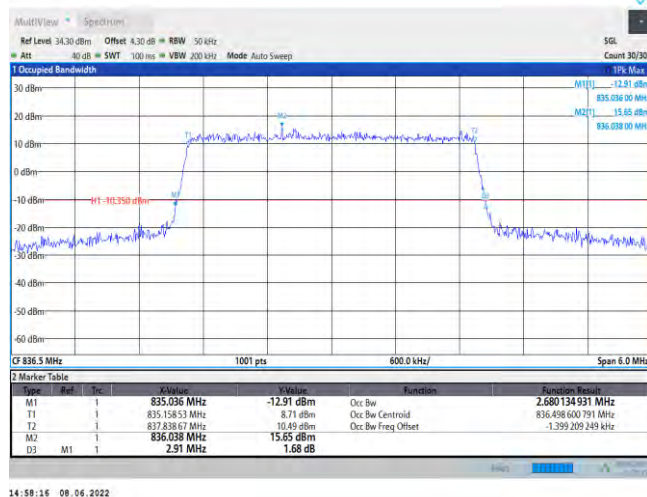
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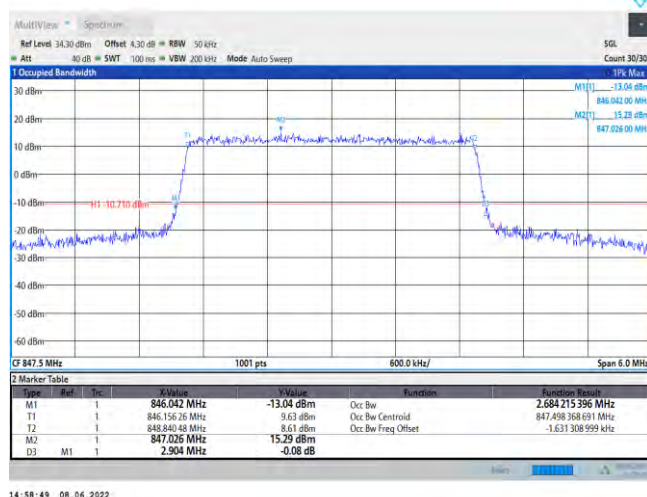
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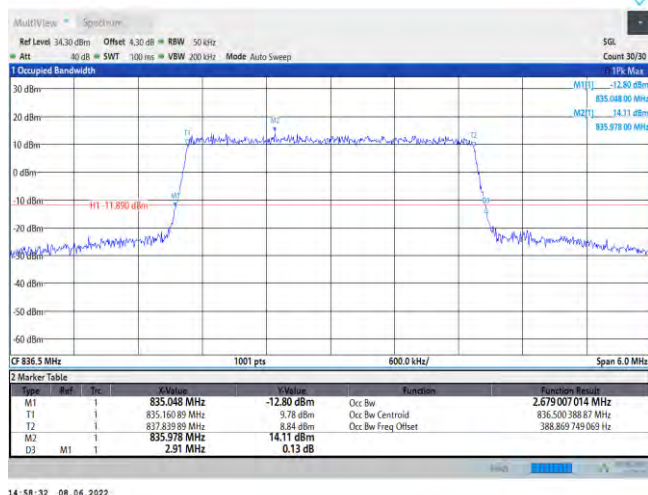
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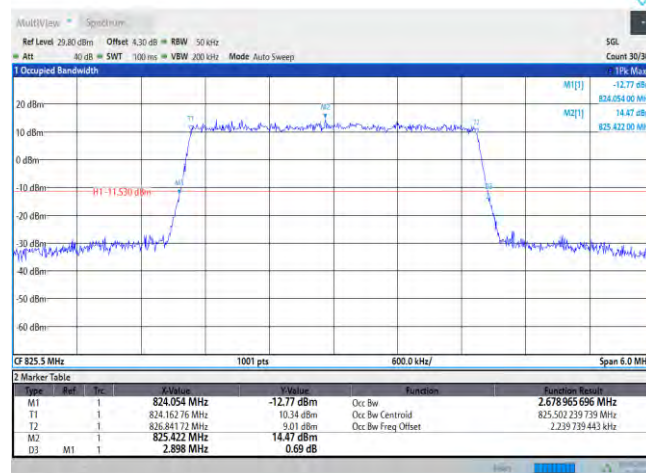
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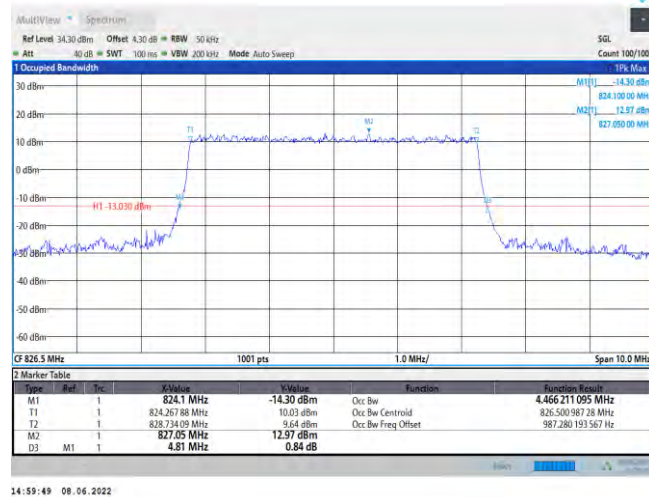
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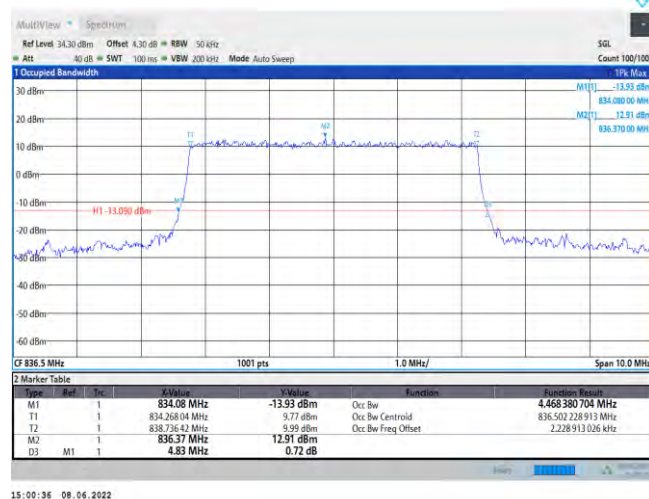
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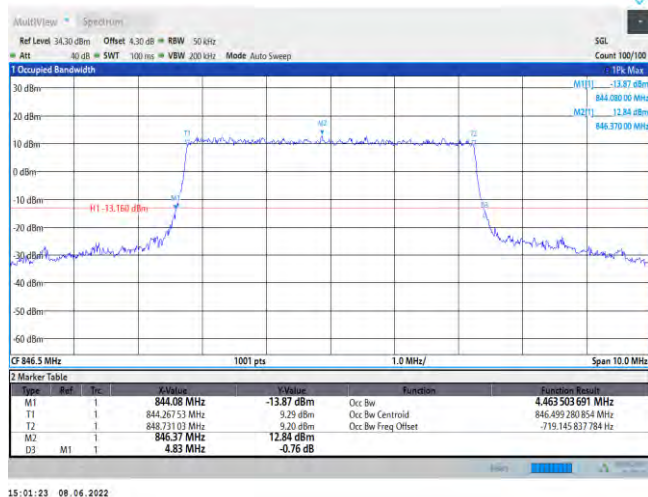
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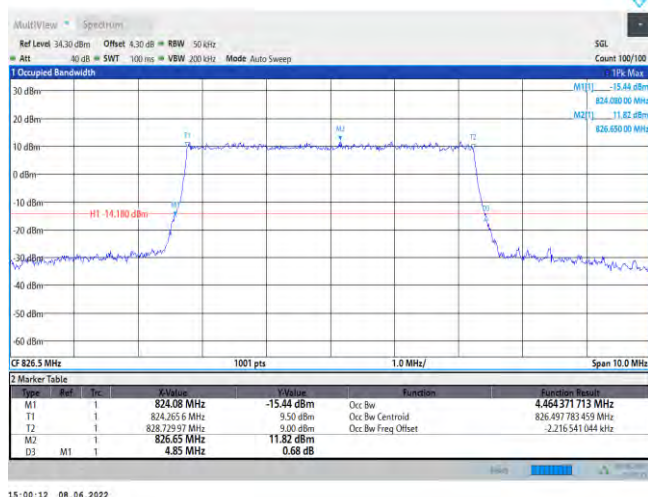
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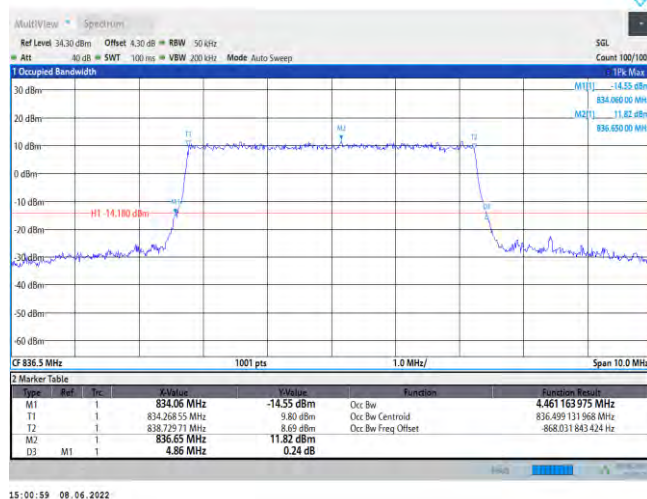
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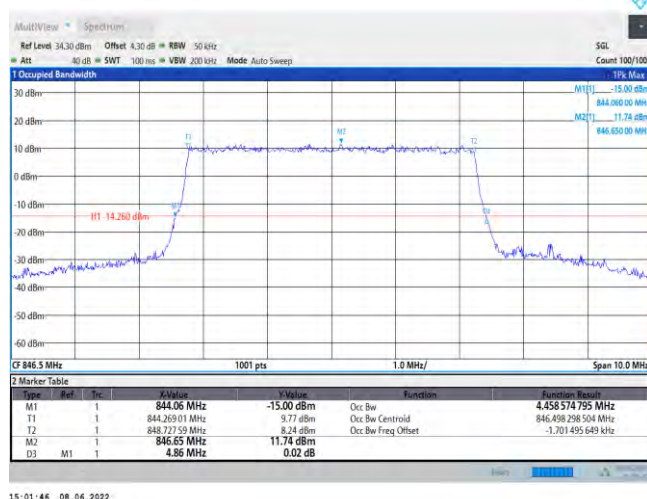
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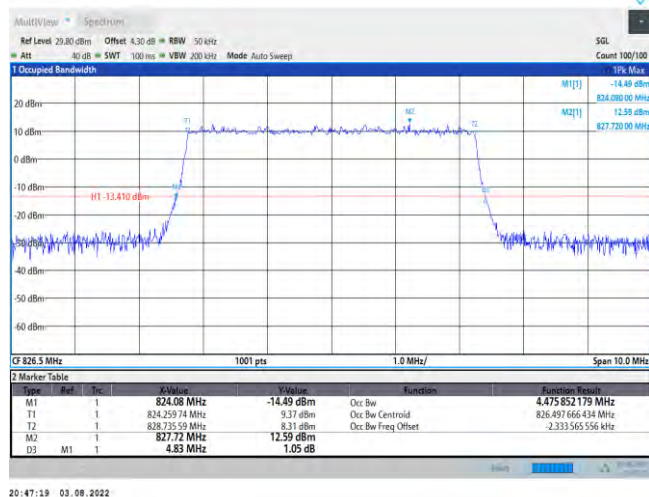
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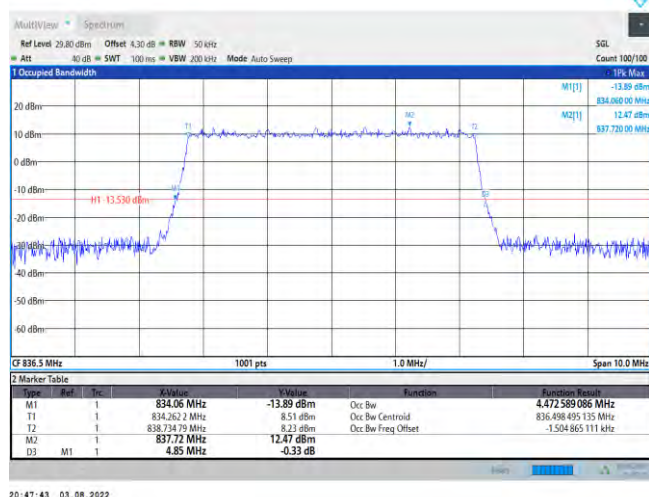
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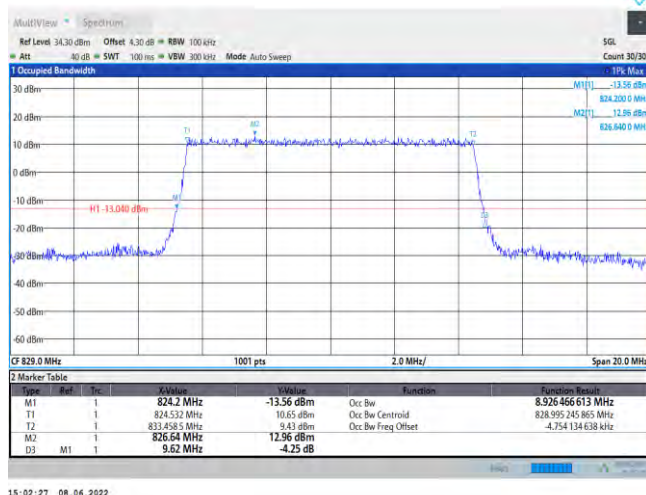
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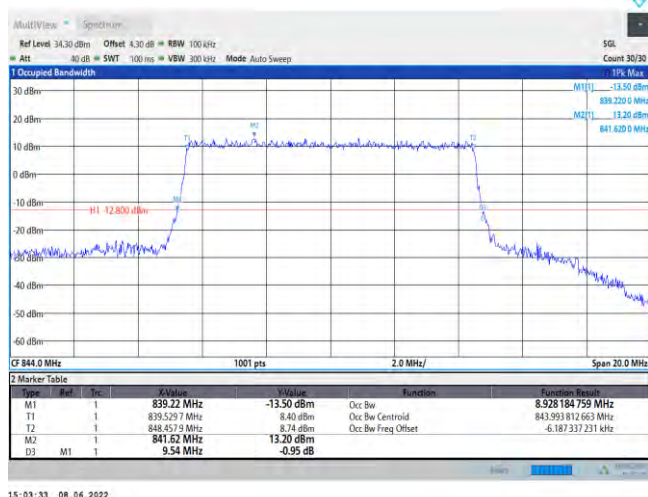
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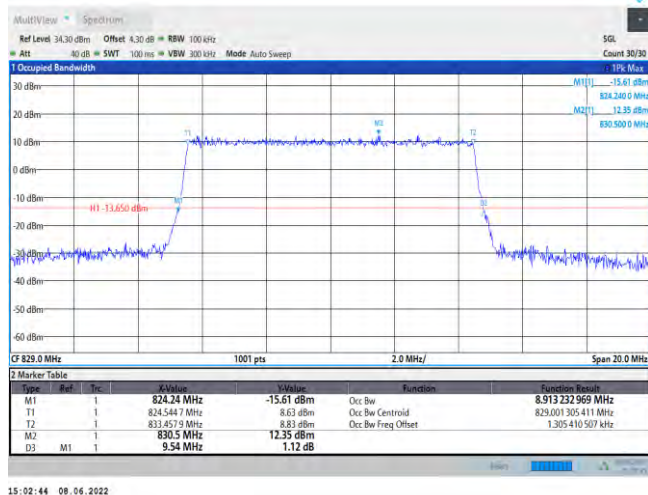
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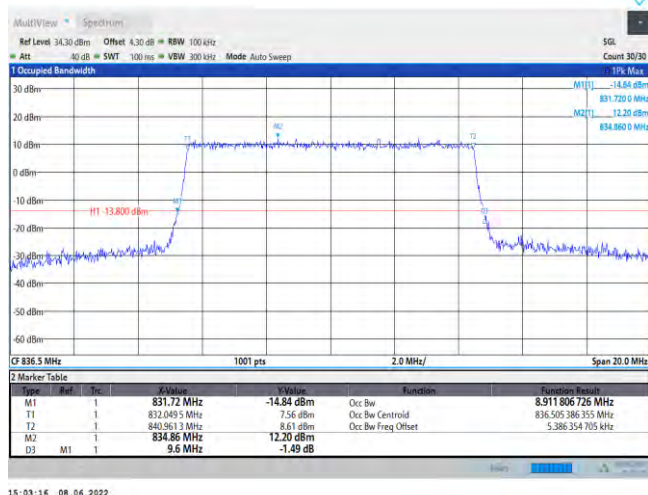
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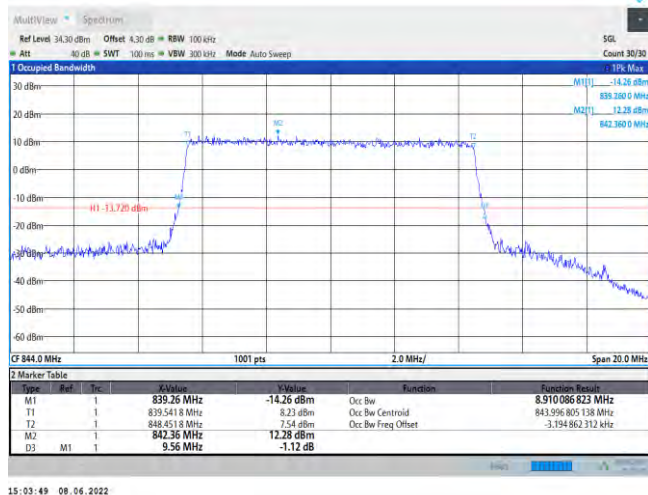
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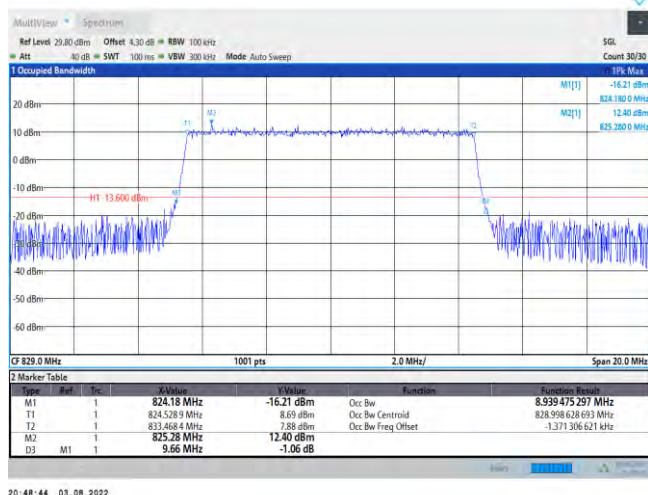
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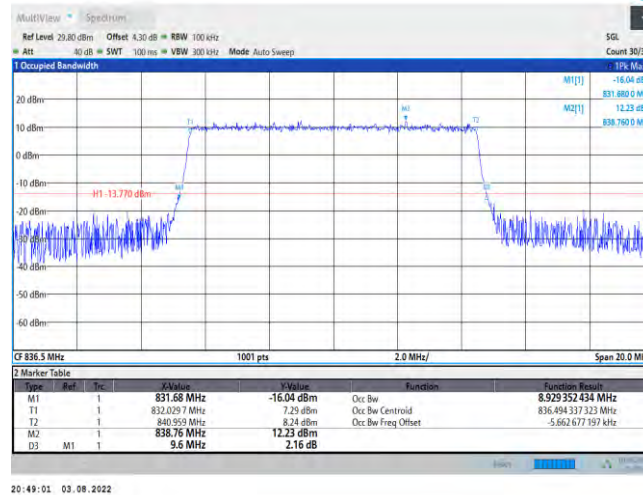
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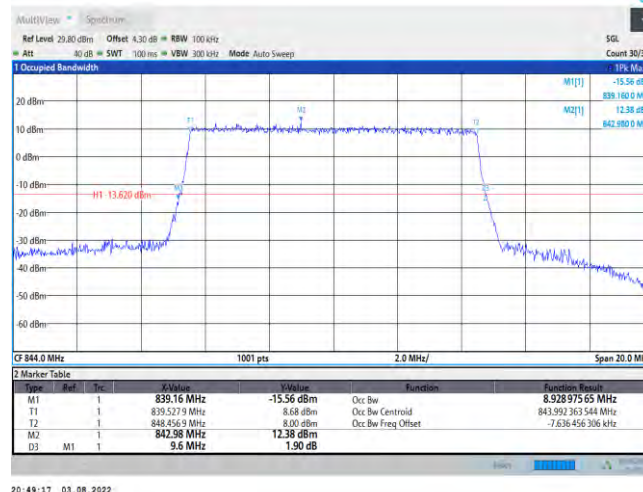
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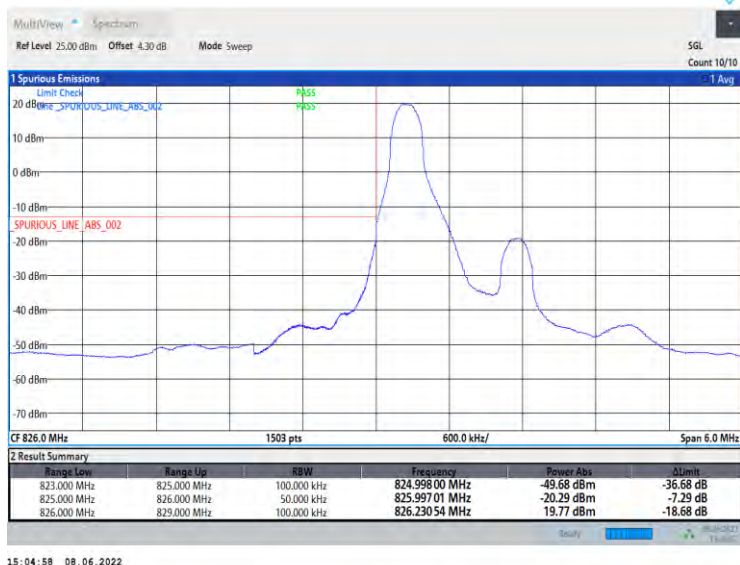
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Band Edge

Test Graphs

Band5-1.4MHz-QPSK-20427-1RB#0



Band5-1.4MHz-QPSK-20427-6RB#0



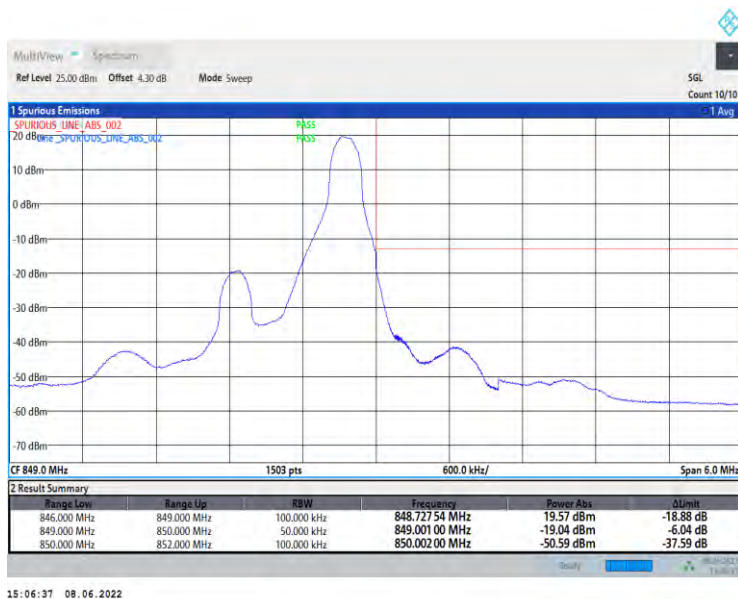
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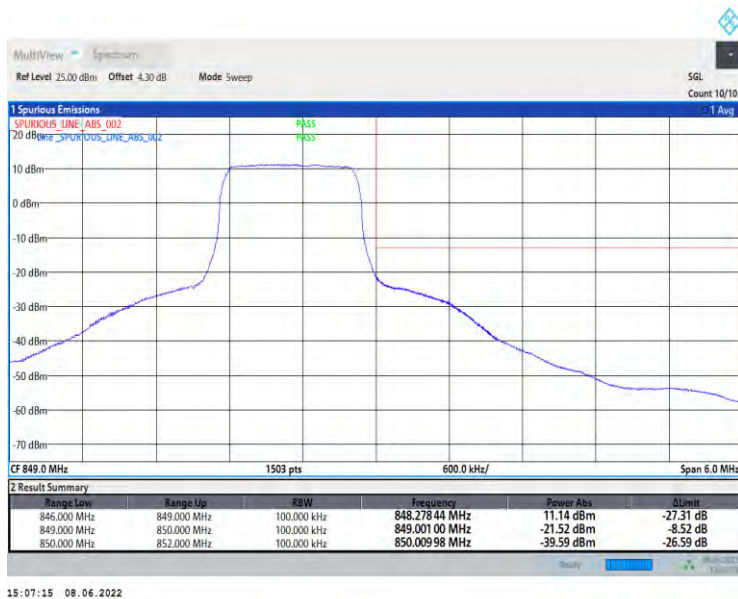
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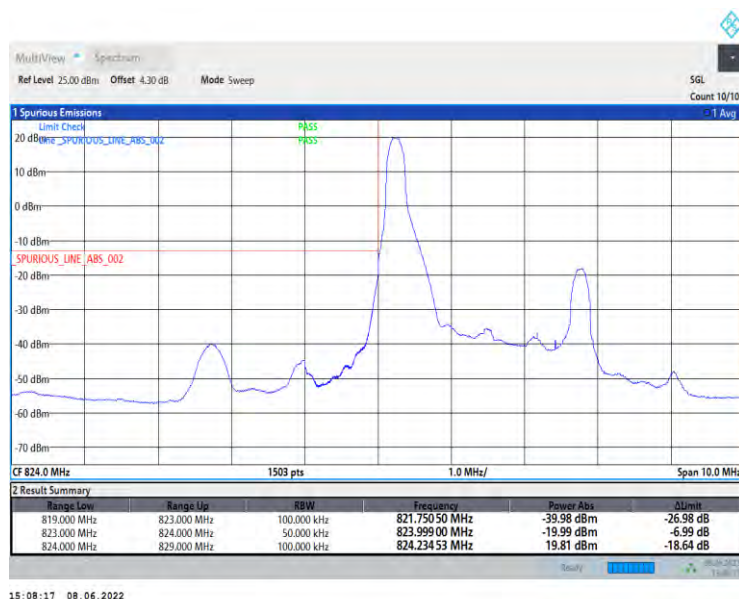
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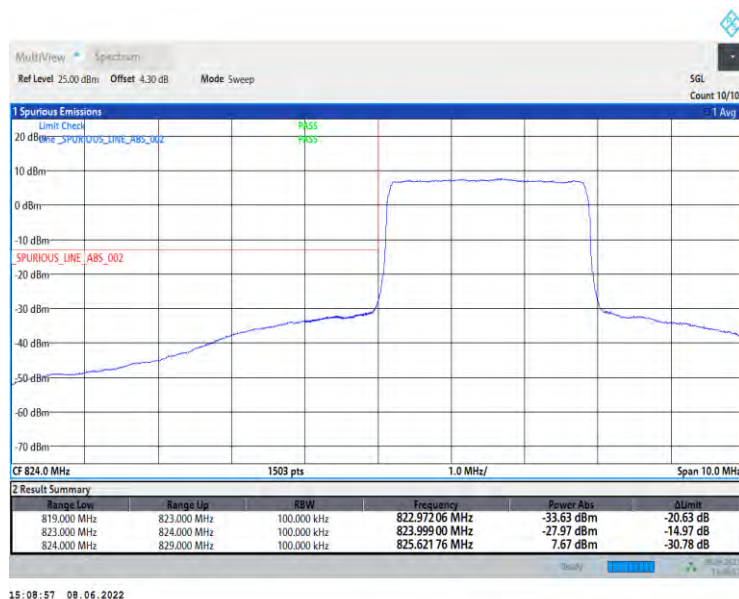
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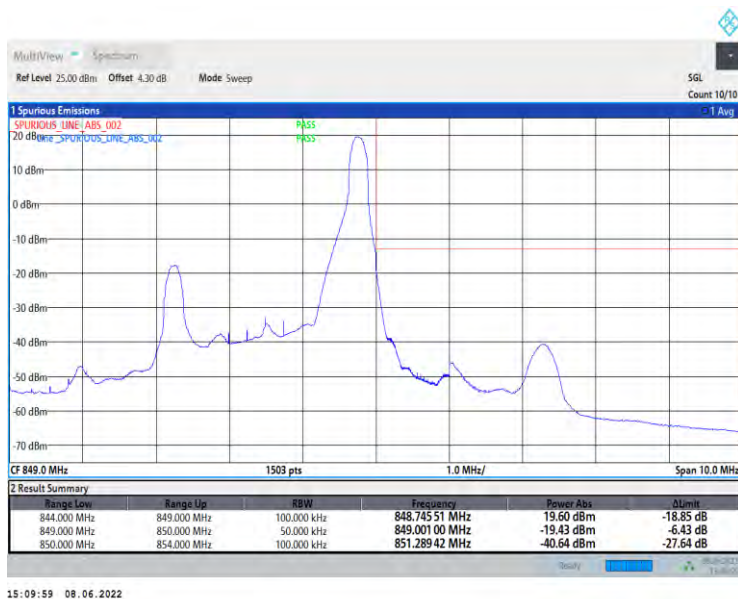
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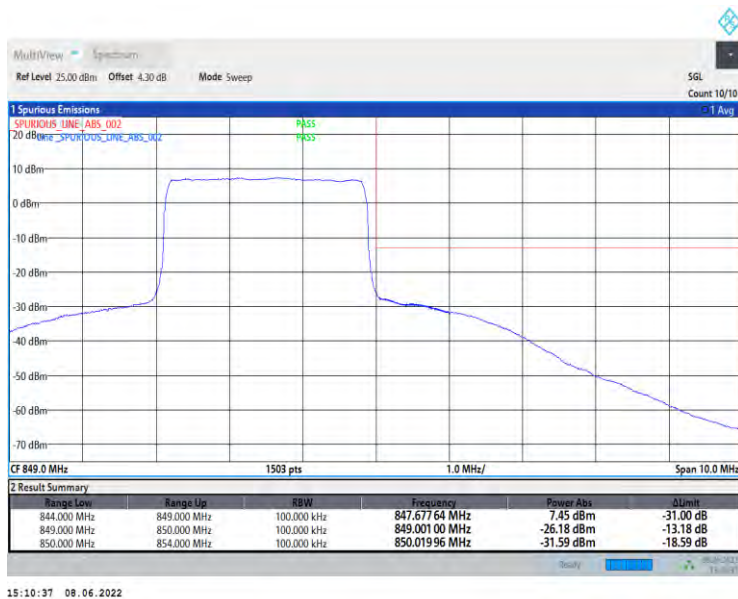
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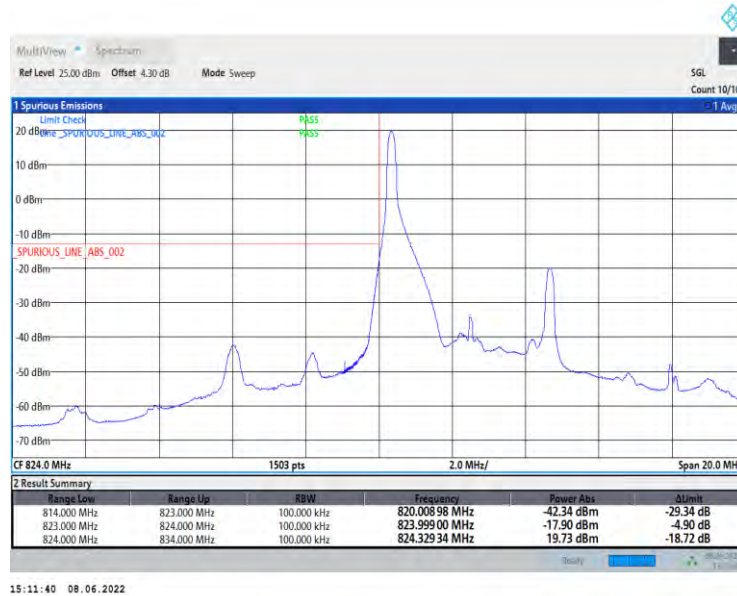
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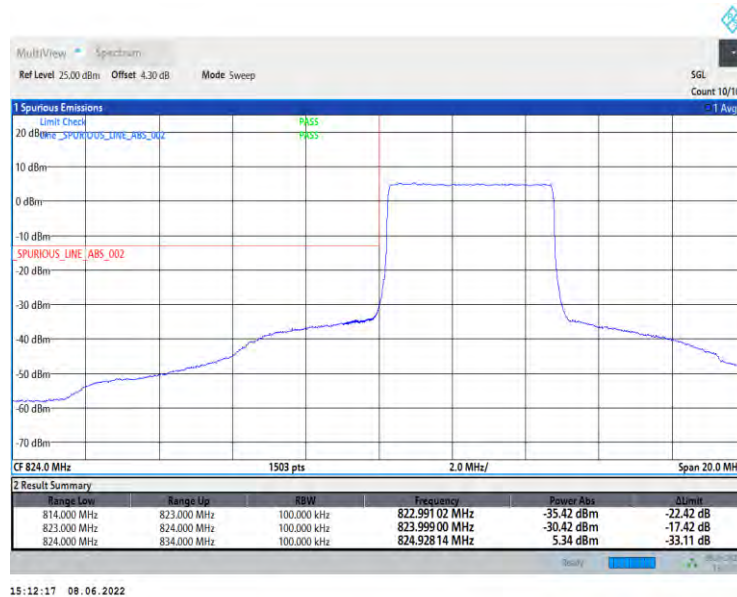
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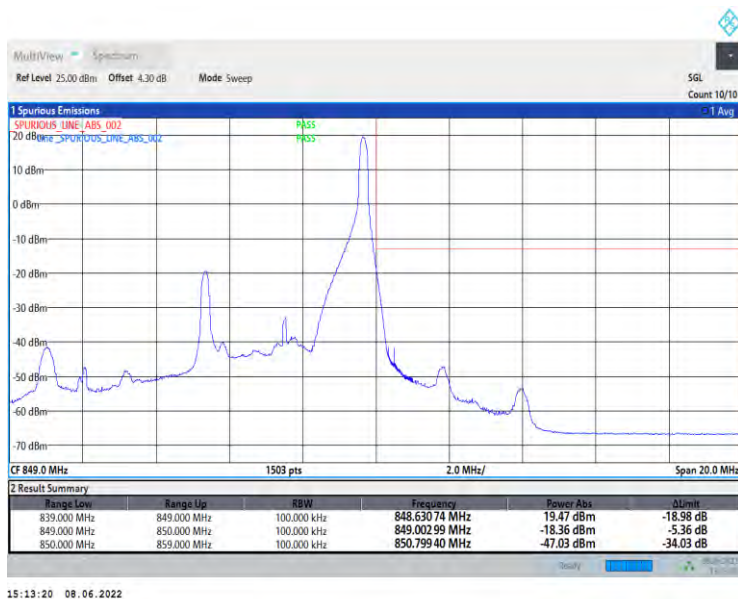
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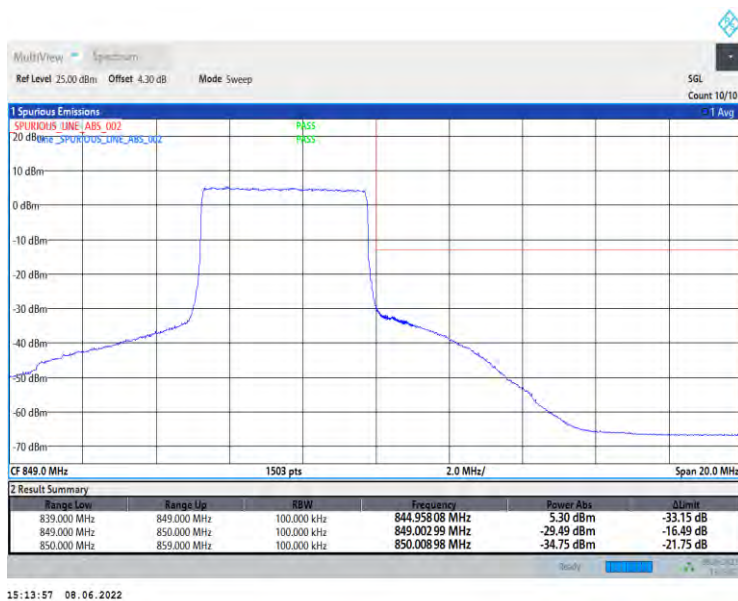
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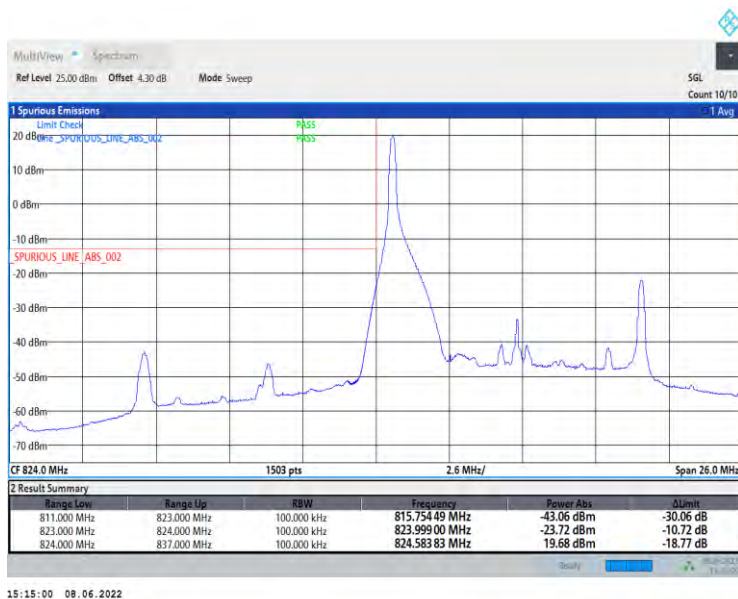
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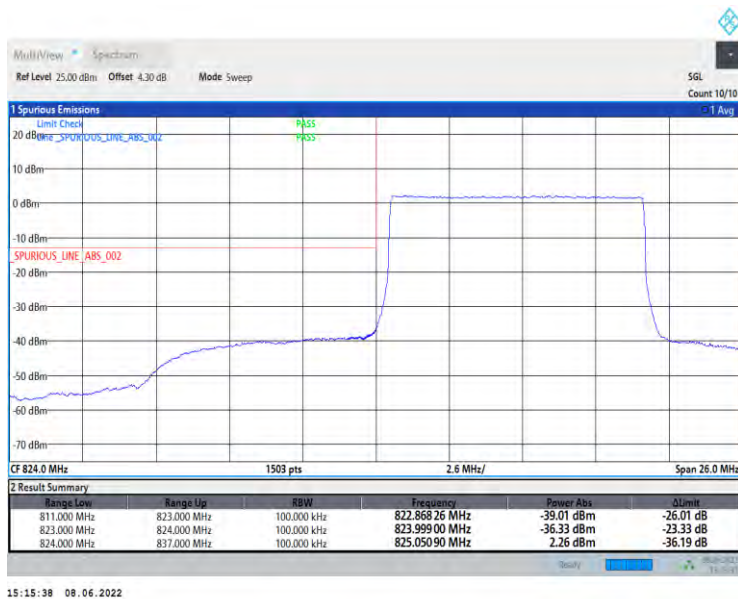
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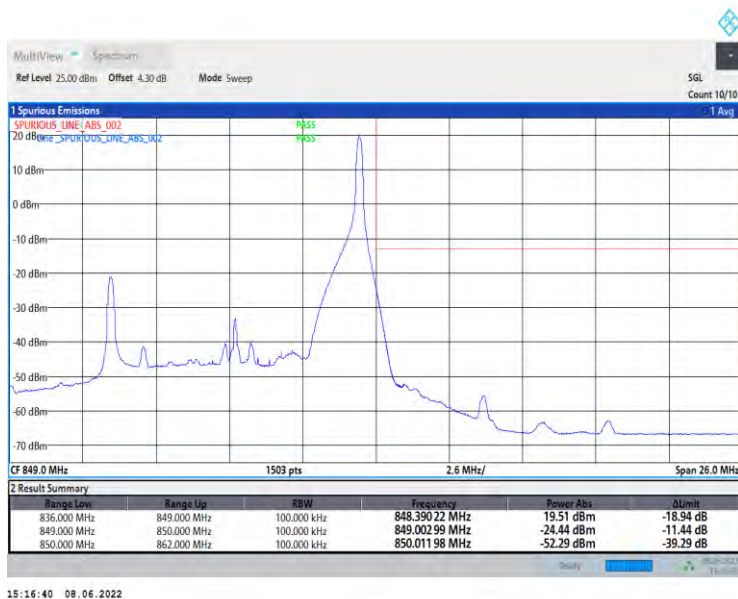
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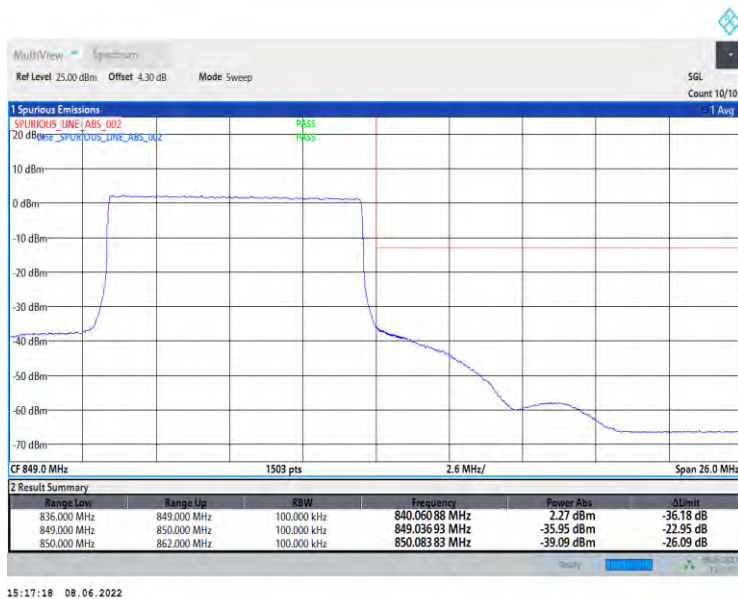
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Band5-10MHz-QPSK-20600-1RB#49



Band5-10MHz-QPSK-20600-50RB#0



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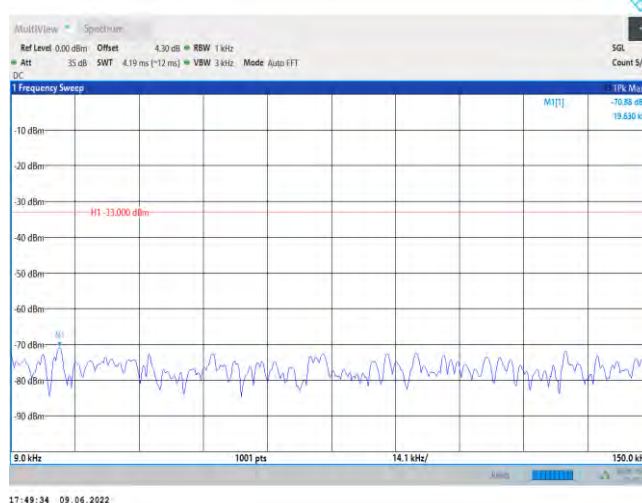
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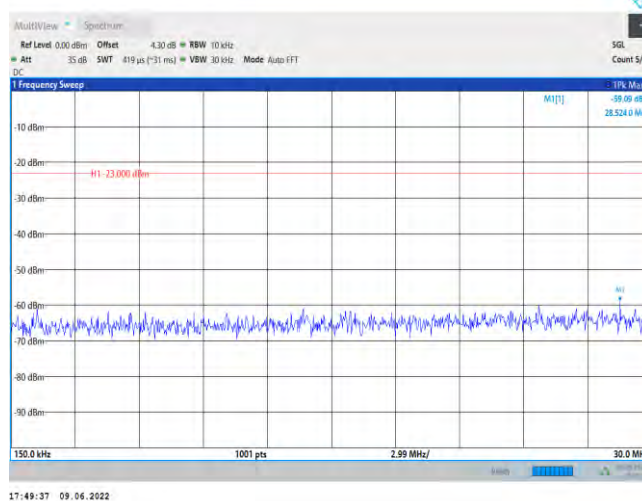
Conducted Spurious Emission

Test Graphs

Band5-10MHz-QPSK-20450-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz



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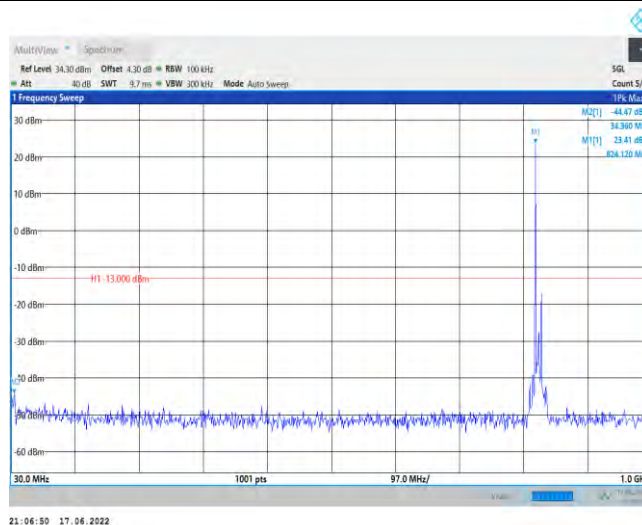
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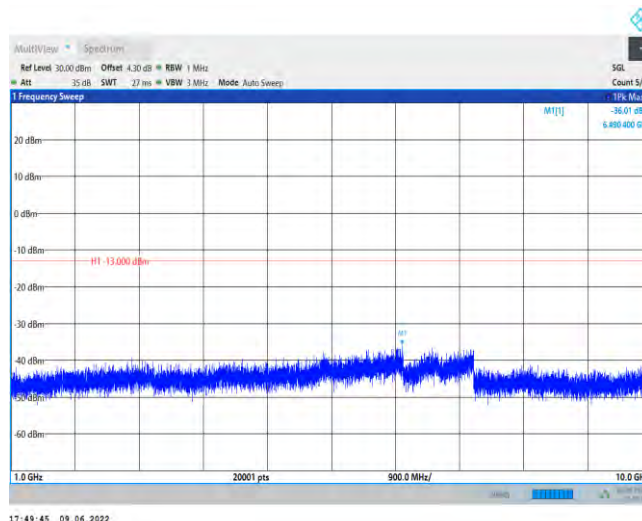
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



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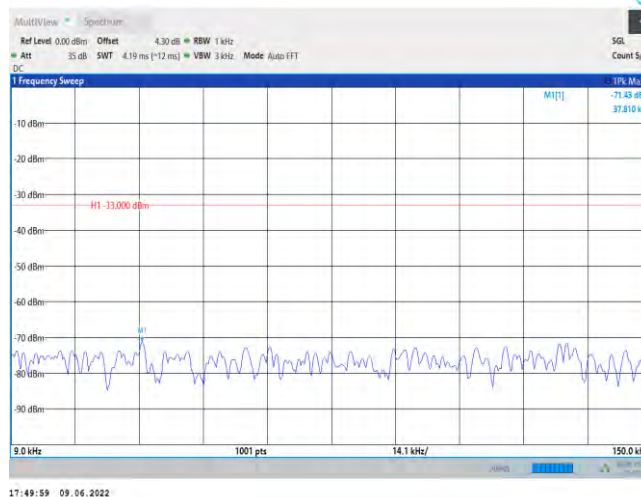
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Report No.: SEWM2206000064RG01

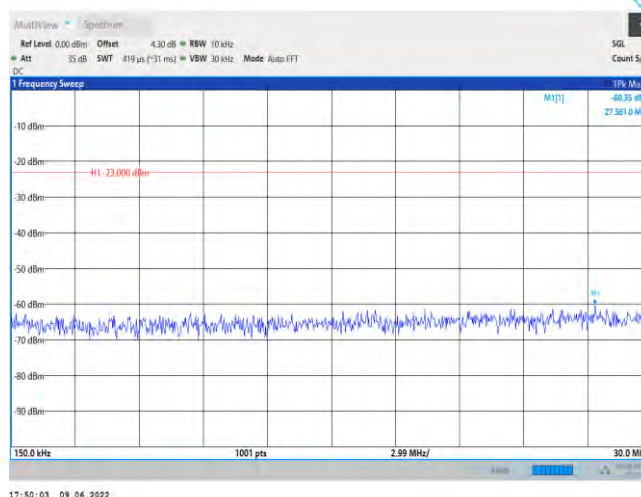
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



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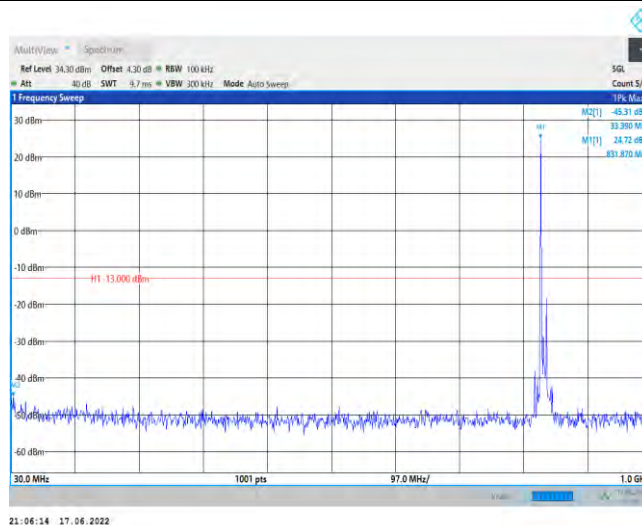
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Report No.: SEWM2206000064RG01

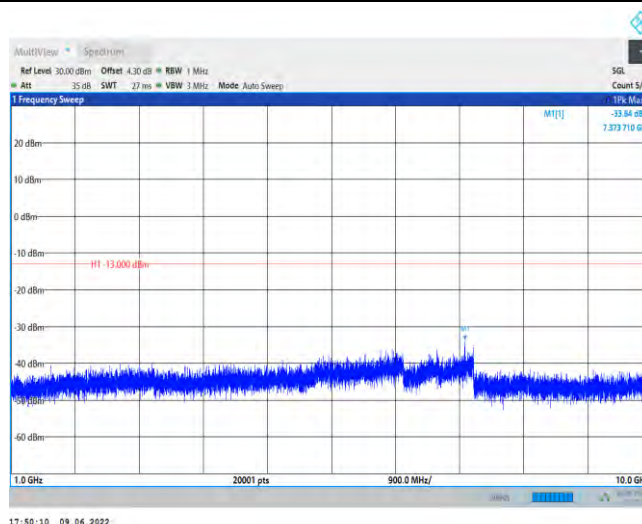
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



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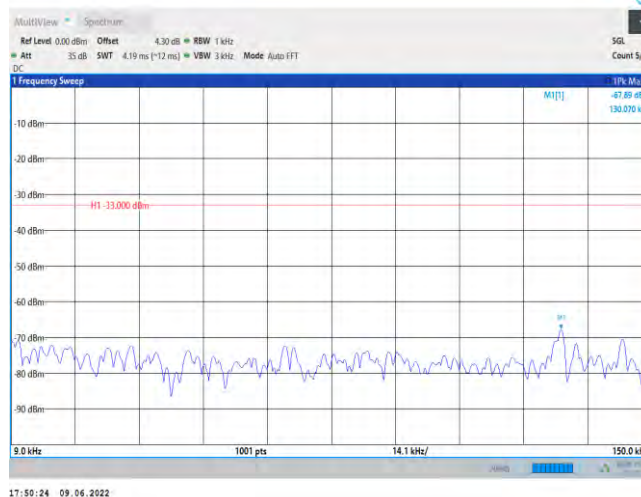
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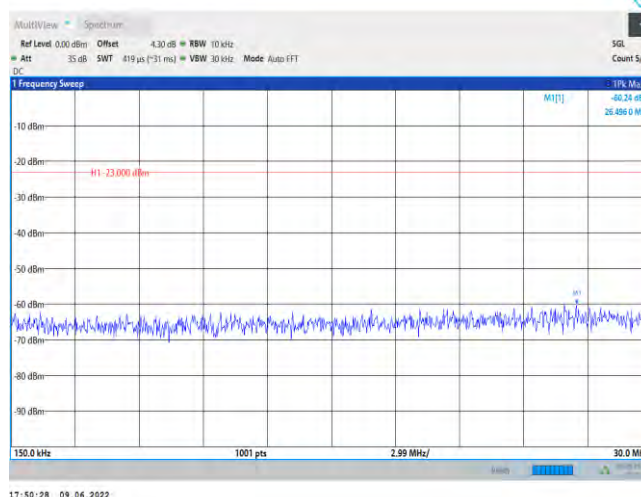
Page: 48 of 53

Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



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Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



17:50:28 09.06.2022



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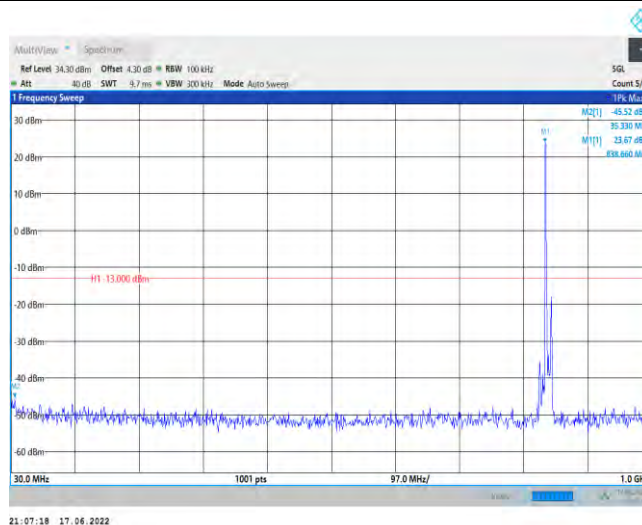
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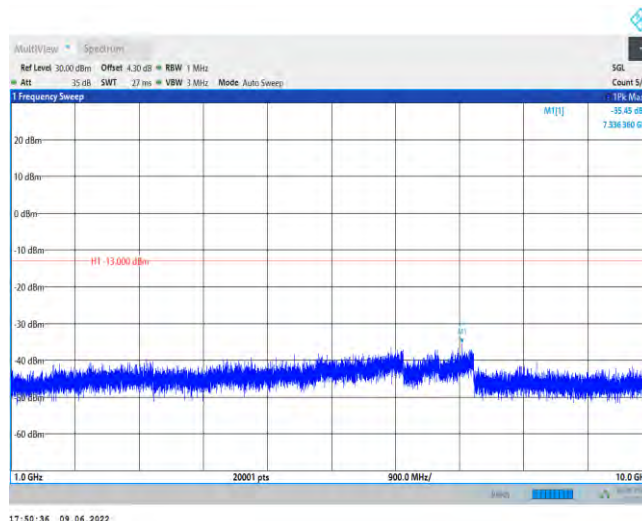
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20600-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 5_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	74.66	-48.38	25.58	-43.41	-13.00	30.41	142	357	Horizontal
2	2473.77	67.55	-46.96	27.85	-46.82	-13.00	33.82	286	116	Horizontal
3	3298	58.68	-46.11	29.48	-53.21	-13.00	40.21	263	350	Horizontal
4	4122.95	55.75	-45.34	30.80	-54.05	-13.00	41.05	241	187	Horizontal
5	4947.54	51.88	-45.08	32.48	-55.99	-13.00	42.99	177	141	Horizontal
6	5772.13	52.10	-43.52	33.48	-53.21	-13.00	40.21	184	187	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	1649.18	69.89	-48.38	25.58	-48.18	-13.00	35.18	196	181	Vertical
2	2473.77	65.30	-46.96	27.85	-49.07	-13.00	36.07	265	290	Vertical
3	3298	61.64	-46.11	29.48	-50.25	-13.00	37.25	241	360	Vertical
4	4122.95	60.95	-45.34	30.80	-48.85	-13.00	35.85	175	343	Vertical
5	4947.54	51.41	-45.08	32.48	-56.46	-13.00	43.46	262	40	Vertical
6	5772.13	51.01	-43.52	33.48	-54.30	-13.00	41.30	241	328	Vertical



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Test Band = LTE Band 5_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664	75.26	-48.34	25.57	-42.77	-13.00	29.77	156	1	Horizontal
2	2496	68.57	-46.77	27.89	-45.57	-13.00	32.57	265	212	Horizontal
3	3328	60.79	-46.16	29.47	-51.16	-13.00	38.16	241	281	Horizontal
4	4160	56.78	-45.23	30.86	-52.85	-13.00	39.85	178	227	Horizontal
5	4992.54	50.90	-45.02	32.59	-56.79	-13.00	43.79	268	335	Horizontal
6	5824.63	51.13	-43.43	33.64	-53.92	-13.00	40.92	147	242	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	1664	67.42	-48.34	25.57	-50.61	-13.00	37.61	174	110	Vertical
2	2496	70.29	-46.77	27.89	-43.85	-13.00	30.85	186	235	Vertical
3	3328	64.94	-46.16	29.47	-47.01	-13.00	34.01	263	3	Vertical
4	4160	59.41	-45.23	30.86	-50.22	-13.00	37.22	241	360	Vertical
5	4992.54	50.93	-45.02	32.59	-56.76	-13.00	43.76	144	258	Vertical
6	5824.63	51.08	-43.43	33.64	-53.97	-13.00	40.97	188	64	Vertical



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Test Band = LTE Band 5_ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	75.40	-48.30	25.56	-42.60	-13.00	29.60	142	0	Horizontal
2	2518	66.81	-46.83	27.96	-47.32	-13.00	34.32	286	108	Horizontal
3	3358	58.62	-46.21	29.46	-53.39	-13.00	40.39	254	240	Horizontal
4	4197.95	56.84	-45.12	30.92	-52.62	-13.00	39.62	185	76	Horizontal
5	5037.54	50.11	-44.85	32.60	-57.40	-13.00	44.40	265	45	Horizontal
6	5887.13	52.00	-43.24	33.84	-52.66	-13.00	39.66	241	61	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	1679.18	66.58	-48.30	25.56	-51.42	-13.00	38.42	125	212	Vertical
2	2518	72.47	-46.83	27.96	-41.66	-13.00	28.66	144	243	Vertical
3	3358	61.18	-46.21	29.46	-50.83	-13.00	37.83	156	321	Vertical
4	4197.95	61.31	-45.12	30.92	-48.15	-13.00	35.15	265	64	Vertical
5	5037.54	49.95	-44.85	32.60	-57.56	-13.00	44.56	241	343	Vertical
6	5887.13	51.20	-43.24	33.84	-53.46	-13.00	40.46	188	321	Vertical

Remark:

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

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)

dBm = dBμV – 95.26



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Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-5.00	-0.005977	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-7.80	-0.009325	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-2.30	-0.002750	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-8.60	-0.010281	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-1.60	-0.001913	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	0.10	0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-3.90	-0.004662	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-10.80	-0.012911	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-9.80	-0.011715	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-6.00	-0.007173	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-7.40	-0.008846	±2.5	PASS

---End of Attachment---



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