Appendix for LTE BAND 5

Product Name: Mobile Phone
Model No: SIMPLE

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	21.87	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	21.83	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	21.78	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	21.90	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	21.91	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	21.90	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.40	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.38	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.91	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.34	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.25	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.25	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	21.24	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	21.96	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.06	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	21.91	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	22.15	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	22.11	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	22.02	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.65	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.47	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.24	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.18	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	21.03	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	21.06	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	20.93	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.86	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.04	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	21.96	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	21.99	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	22.12	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	22.13	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	22.06	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.42	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.26	PASS

Band5	1.4MHz	16QAM	20643	1RB#2	22.53	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.14	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	21.03	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	21.04	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	21.17	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.49	PASS
Band5	3MHz	QPSK	20415	1RB#0	21.88	PASS
Band5	3MHz	QPSK	20415	1RB#8	21.90	PASS
Band5	3MHz	QPSK	20415	1RB#14	21.91	PASS
Band5	3MHz	QPSK	20415	8RB#0	21.41	PASS
Band5	3MHz	QPSK	20415	8RB#4	21.59	PASS
Band5	3MHz	QPSK	20415	8RB#7	21.54	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.55	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.93	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.42	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.97	PASS
Band5	3MHz	16QAM	20415	8RB#0	20.63	PASS
Band5	3MHz	16QAM	20415	8RB#4	20.64	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.13	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.34	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.06	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.07	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.12	PASS
Band5	3MHz	QPSK	20525	8RB#0	21.55	PASS
Band5	3MHz	QPSK	20525	8RB#4	21.51	PASS
Band5	3MHz	QPSK	20525	8RB#7	21.52	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.63	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.30	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.84	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.14	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.12	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.71	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.44	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.11	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.15	PASS
Band5	3MHz	QPSK	20635	1RB#14	21.98	PASS
Band5	3MHz	QPSK	20635	8RB#0	21.70	PASS
Band5	3MHz	QPSK	20635	8RB#4	21.72	PASS
Band5	3MHz	QPSK	20635	8RB#7	21.47	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.68	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.80	PASS

Band5	3MHz	16QAM	20635	1RB#8	22.12	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.93	PASS
Band5	3MHz	16QAM	20635	8RB#0	20.91	PASS
Band5	3MHz	16QAM	20635	8RB#4	20.92	PASS
Band5	3MHz	16QAM	20635	8RB#7	20.69	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.69	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.07	PASS
Band5	5MHz	QPSK	20425	1RB#12	21.85	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.12	PASS
Band5	5MHz	QPSK	20425	12RB#0	21.51	PASS
Band5	5MHz	QPSK	20425	12RB#6	21.36	PASS
Band5	5MHz	QPSK	20425	12RB#13	21.30	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.52	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.43	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.22	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.35	PASS
Band5	5MHz	16QAM	20425	12RB#0	20.36	PASS
Band5	5MHz	16QAM	20425	12RB#6	20.36	PASS
Band5	5MHz	16QAM	20425	12RB#13	20.94	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.95	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.09	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.15	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.12	PASS
Band5	5MHz	QPSK	20525	12RB#0	21.55	PASS
Band5	5MHz	QPSK	20525	12RB#6	21.51	PASS
Band5	5MHz	QPSK	20525	12RB#13	21.50	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.60	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.15	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.83	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.16	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.09	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.06	PASS
Band5	5MHz	16QAM	20525	12RB#13	20.66	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.62	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.13	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.28	PASS
Band5	5MHz	QPSK	20625	1RB#24	21.85	PASS
Band5	5MHz	QPSK	20625	12RB#0	21.52	PASS
Band5	5MHz	QPSK	20625	12RB#6	21.53	PASS
Band5	5MHz	QPSK	20625	12RB#13	21.75	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.68	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.33	PASS

Band5	5MHz	16QAM	20625	1RB#12	21.64	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.43	PASS
Band5	5MHz	16QAM	20625	12RB#0	20.97	PASS
Band5	5MHz	16QAM	20625	12RB#6	20.90	PASS
Band5	5MHz	16QAM	20625	12RB#13	20.59	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.68	PASS
Band5	10MHz	QPSK	20450	1RB#0	21.92	PASS
Band5	10MHz	QPSK	20450	1RB#24	21.92	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.00	PASS
Band5	10MHz	QPSK	20450	25RB#0	21.30	PASS
Band5	10MHz	QPSK	20450	25RB#12	21.30	PASS
Band5	10MHz	QPSK	20450	25RB#25	21.54	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.37	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.64	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.58	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.76	PASS
Band5	10MHz	16QAM	20450	25RB#0	20.86	PASS
Band5	10MHz	16QAM	20450	25RB#12	20.89	PASS
Band5	10MHz	16QAM	20450	25RB#25	20.39	PASS
Band5	10MHz	16QAM	20450	50RB#0	20.95	PASS
Band5	10MHz	QPSK	20525	1RB#0	21.98	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.01	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.04	PASS
Band5	10MHz	QPSK	20525	25RB#0	21.56	PASS
Band5	10MHz	QPSK	20525	25RB#12	21.50	PASS
Band5	10MHz	QPSK	20525	25RB#25	21.51	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.54	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.70	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.81	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.87	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.09	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.10	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.14	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.60	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.57	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.01	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.01	PASS
Band5	10MHz	QPSK	20600	25RB#0	21.66	PASS
Band5	10MHz	QPSK	20600	25RB#12	21.66	PASS
Band5	10MHz	QPSK	20600	25RB#25	21.73	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.66	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.11	PASS

Band5	10MHz	16QAM	20600	1RB#24	21.99	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.99	PASS
Band5	10MHz	16QAM	20600	25RB#0	20.63	PASS
Band5	10MHz	16QAM	20600	25RB#12	20.61	PASS
Band5	10MHz	16QAM	20600	25RB#25	20.66	PASS
Band5	10MHz	16QAM	20600	50RB#0	20.94	PASS

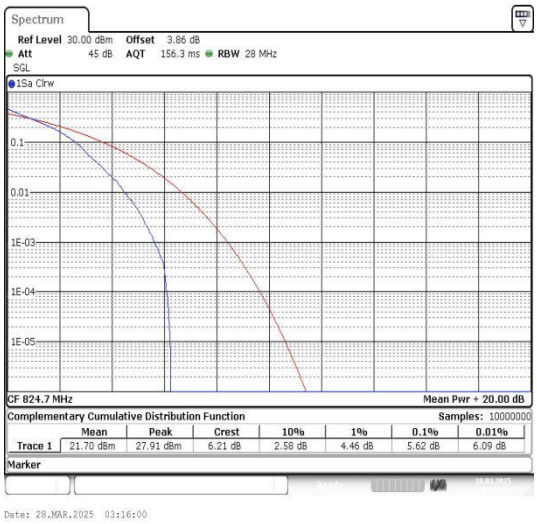
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	5.62	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.83	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	6.12	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.61	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	5.36	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.57	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.80	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.35	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	5.45	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.83	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	5.88	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	6.64	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	5.74	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.91	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	6.29	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.70	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	5.42	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.68	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	6.03	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.43	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	5.39	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.68	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	5.83	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.58	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	5.83	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.91	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	6.14	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.58	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	5.54	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.65	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.83	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.38	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	5.33	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.74	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	5.74	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	6.49	13	PASS

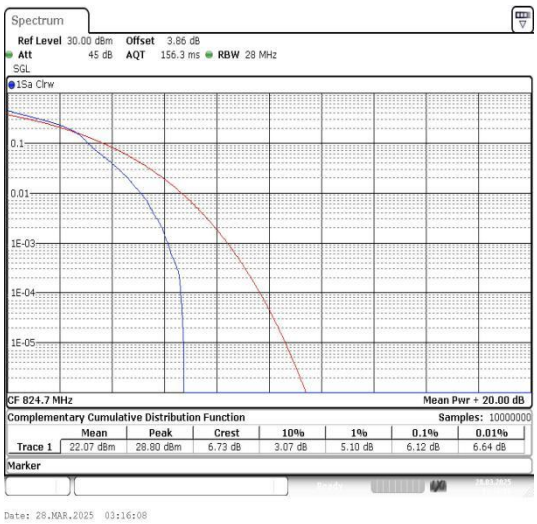
Band5	10MHz	QPSK	20450	1RB#0	5.71	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.91	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	6.29	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.61	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	5.65	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.71	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	6.14	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.49	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	5.39	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.74	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	5.65	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.41	13	PASS

Test Graphs



Band5-1.4MHz-QPSK-20407-1RB#0-PASS

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



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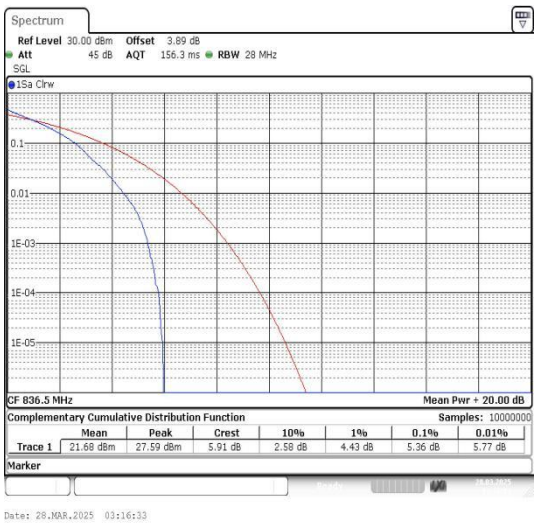
Band5-1.4MHz-16QAM-20407-6RB#0-PASS



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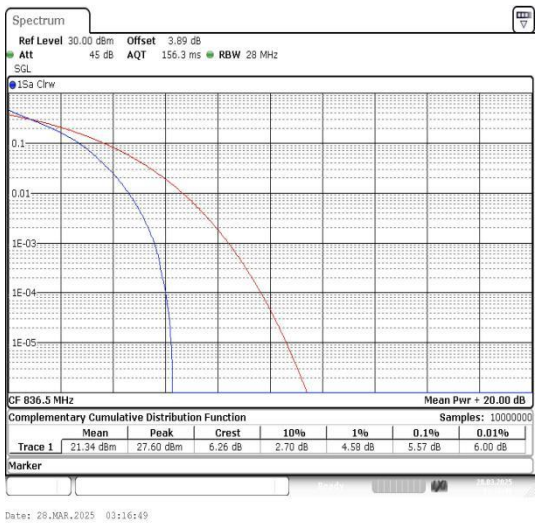
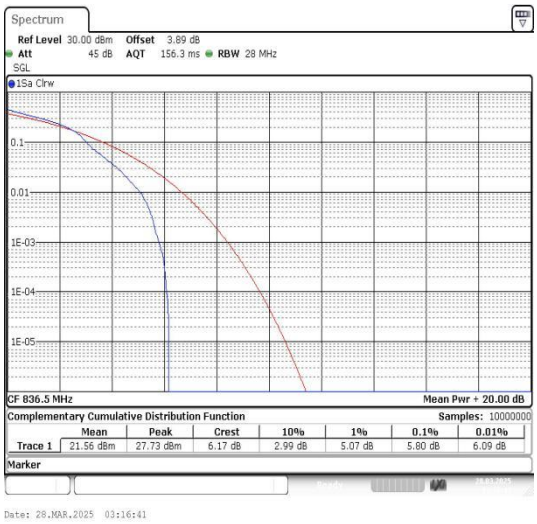
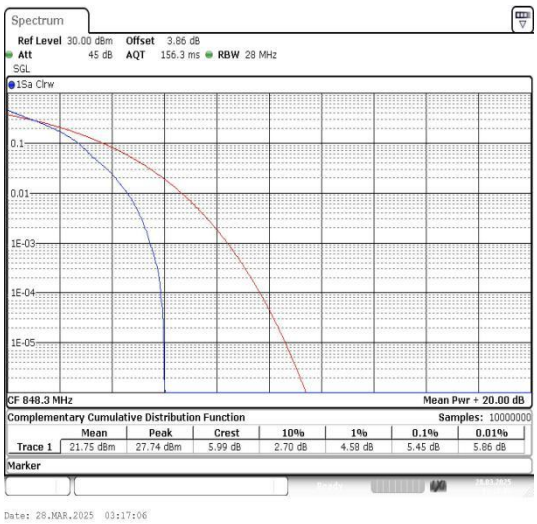


Band5-1.4MHz-QPSK-20525-6RB#0-PASS



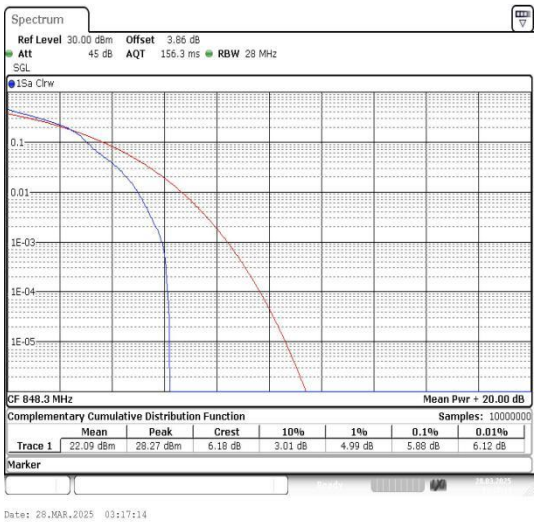
Band5-1.4MHz-16QAM-20525-1RB#0-PASS

Band5-1.4MHz-16QAM-20525-6RB#0-PASS

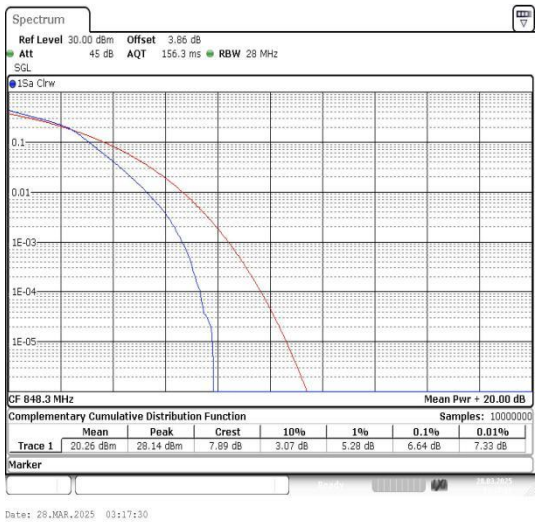


Band5-1.4MHz-QPSK-20643-1RB#0-PASS

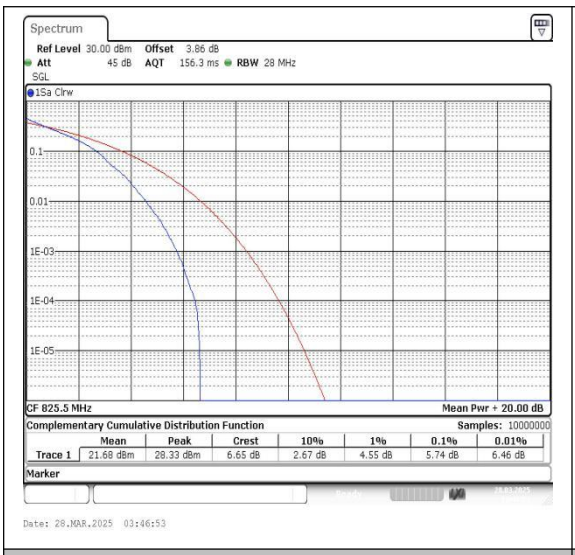
Band5-1.4MHz-QPSK-20643-6RB#0-PASS



Band5-1.4MHz-16QAM-20643-1RB#0-PASS



Band5-1.4MHz-16QAM-20643-6RB#0-PASS



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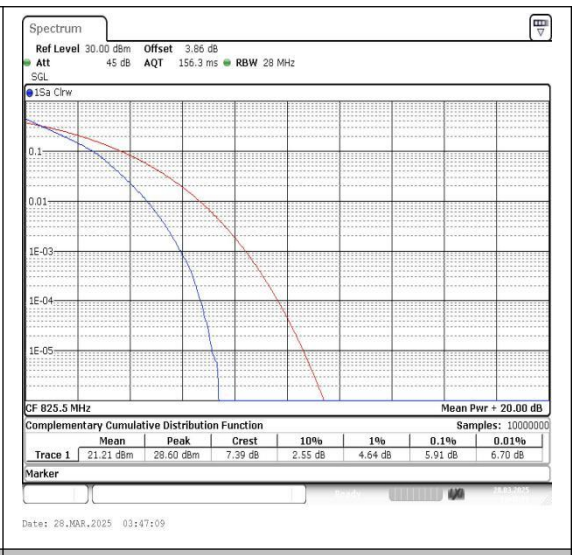

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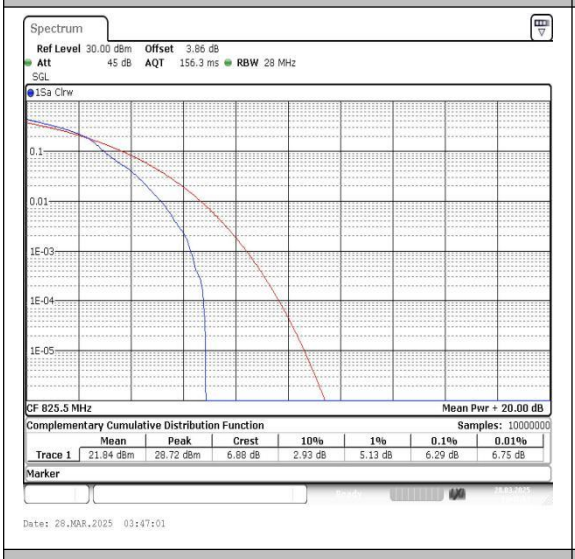
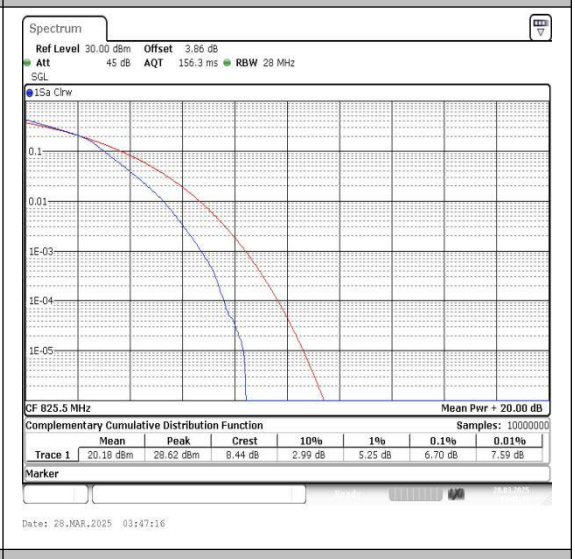
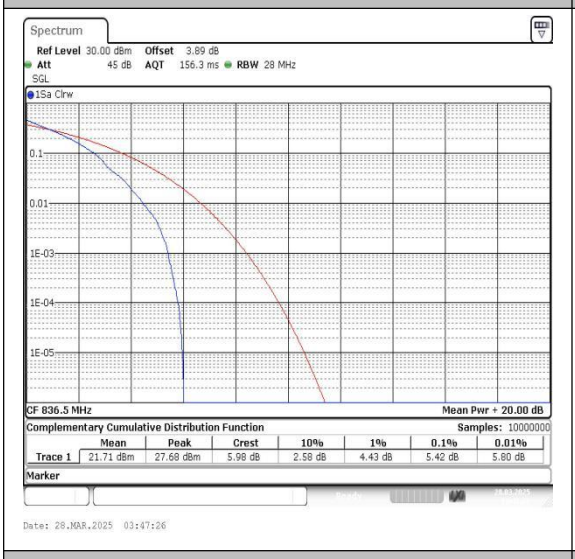


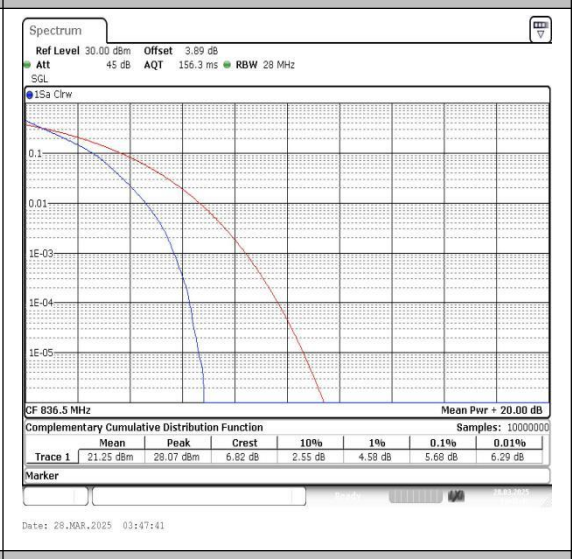
Band5-3MHz-16QAM-20415-1RB#0-PASS



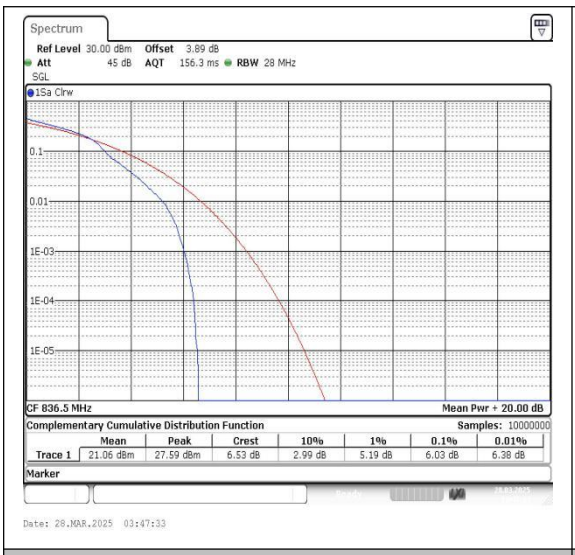
Band5-3MHz-16QAM-20415-15RB#0-PASS



Band5-3MHz-QPSK-20525-1RB#0-PASS



Band5-3MHz-QPSK-20525-15RB#0-PASS



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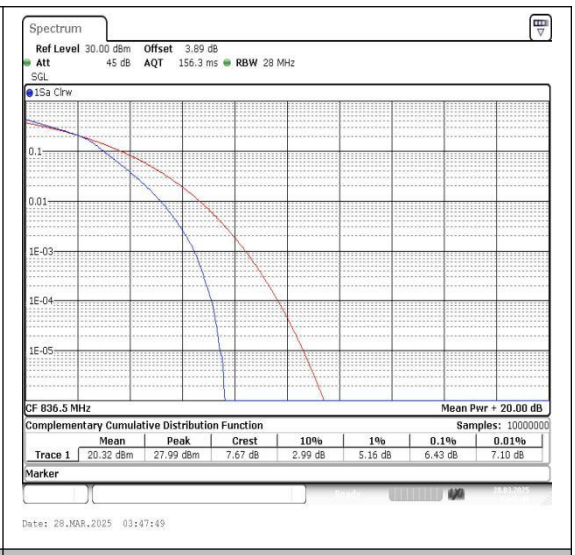

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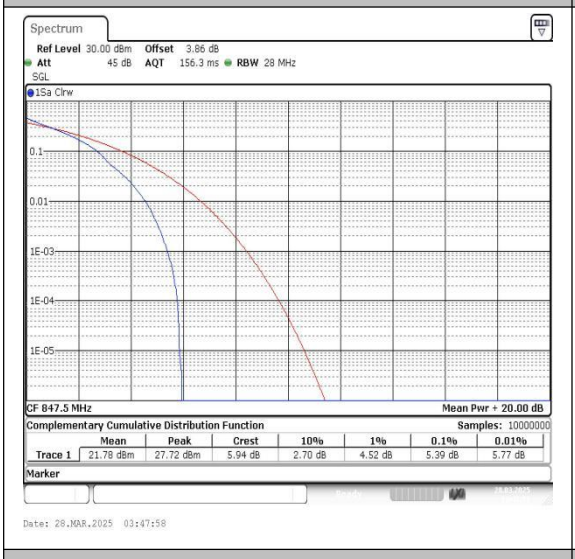

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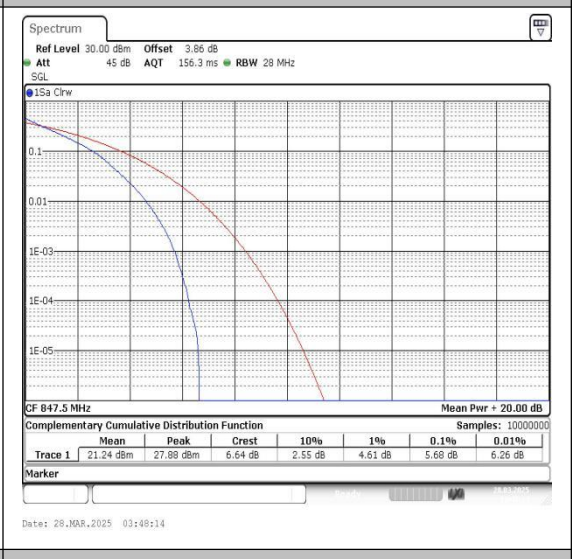

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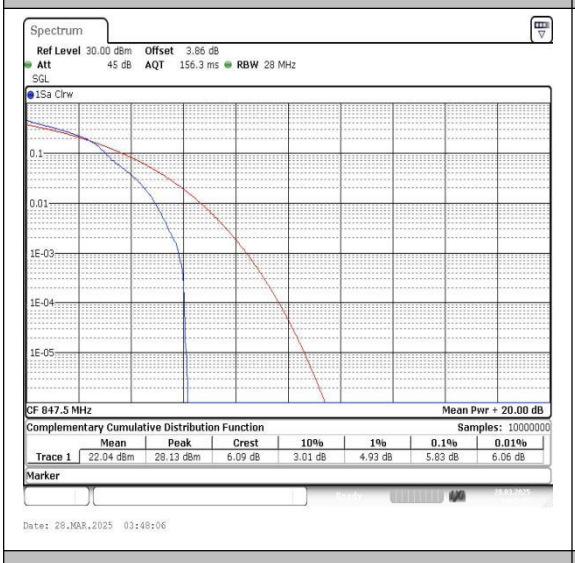

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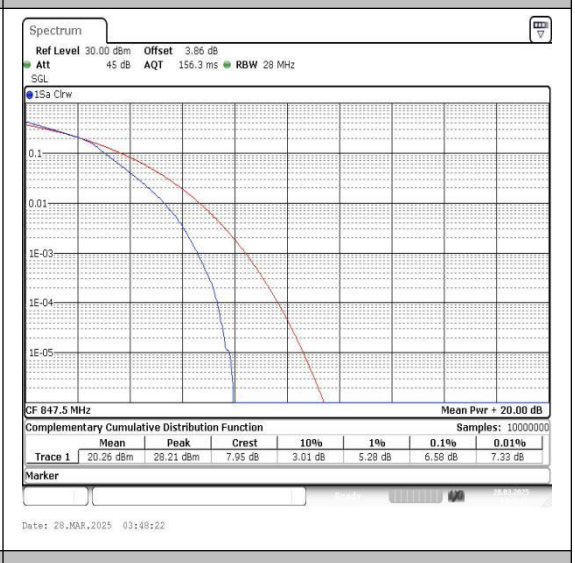

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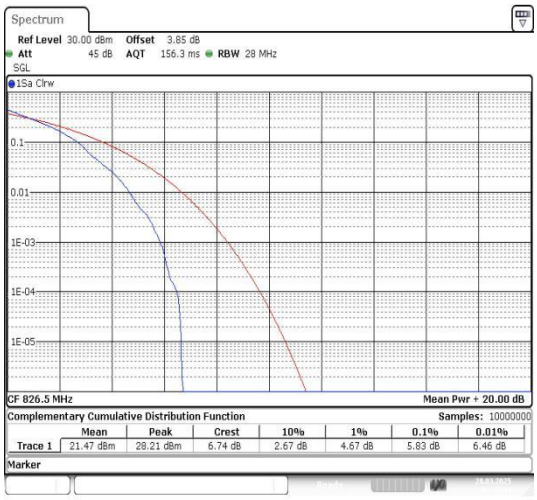

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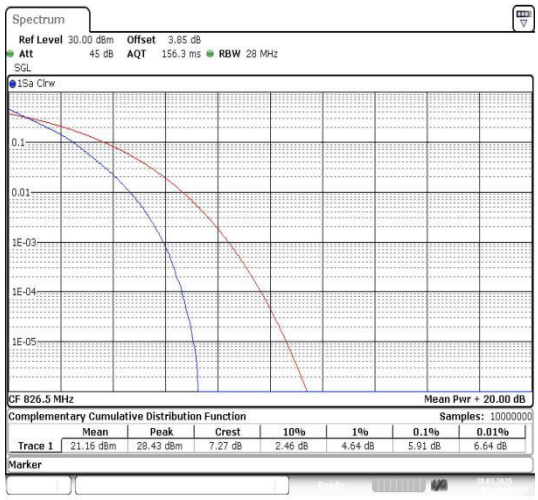

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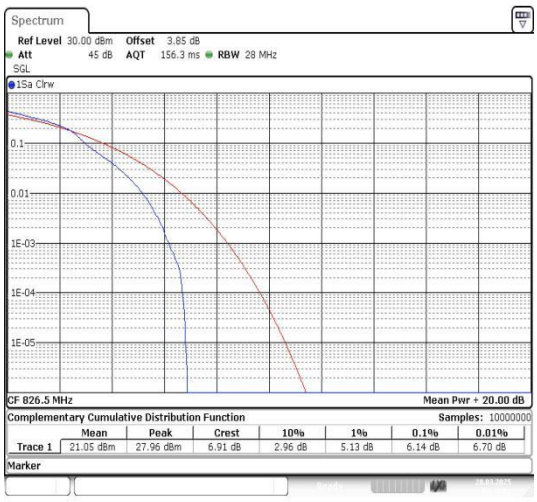

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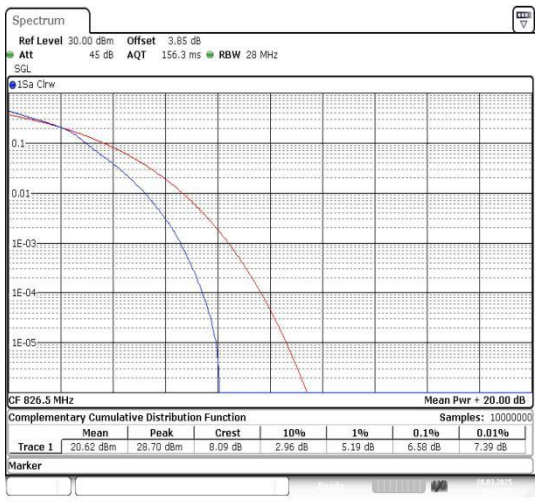

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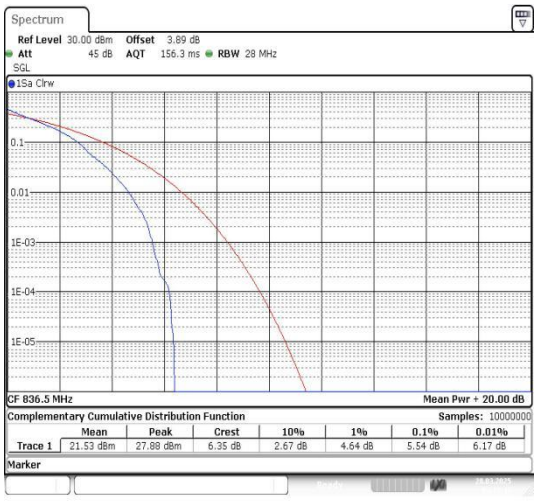

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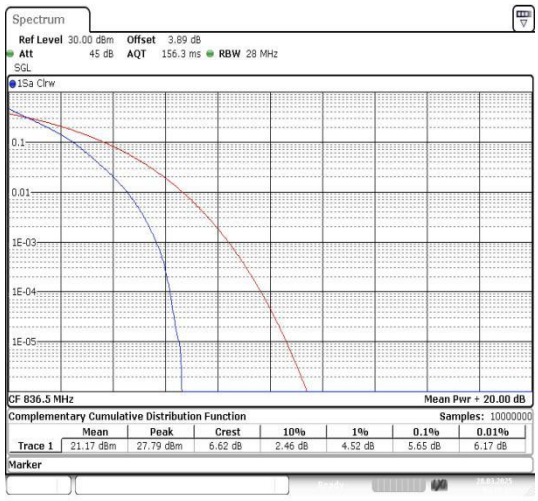

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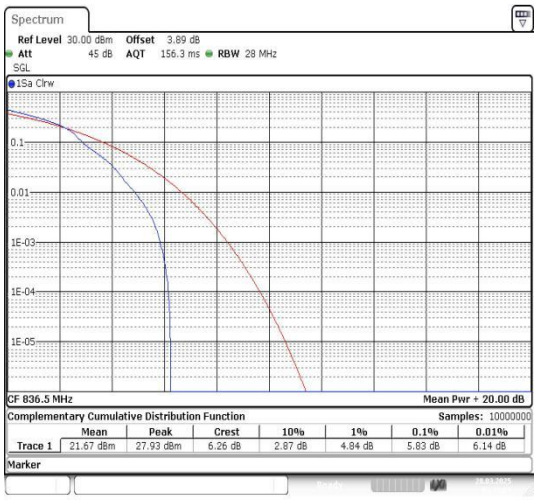

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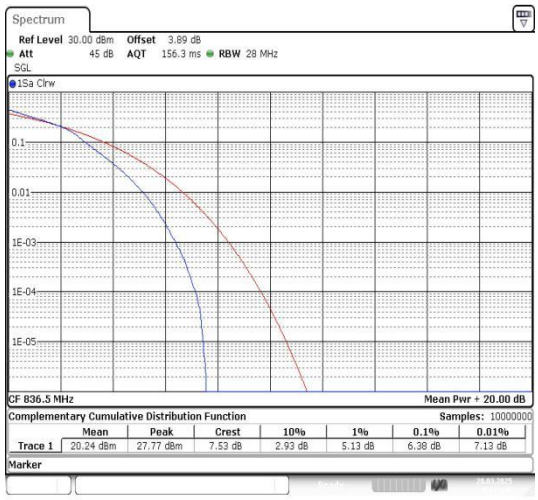

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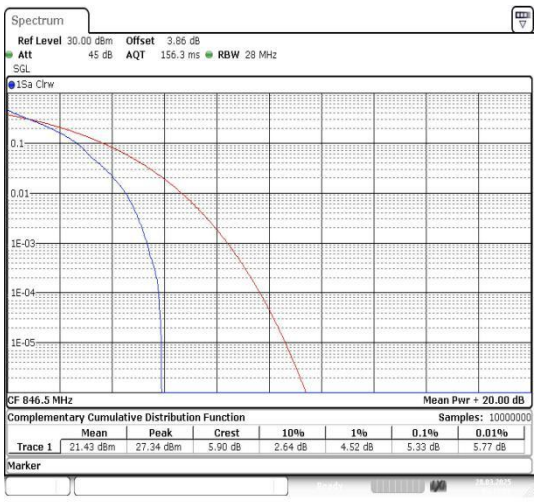

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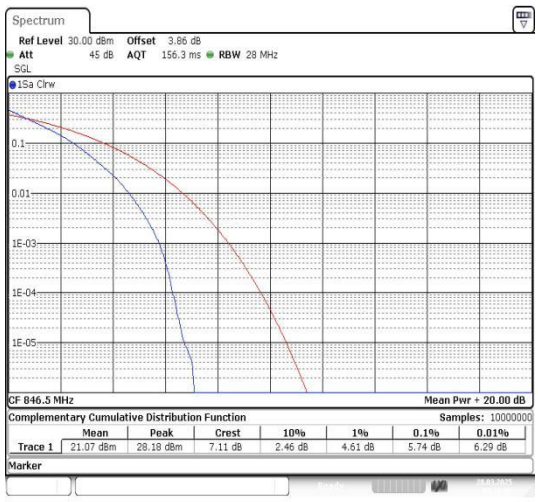

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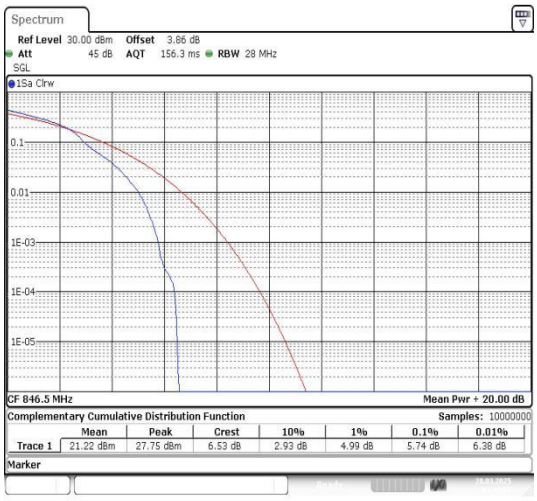

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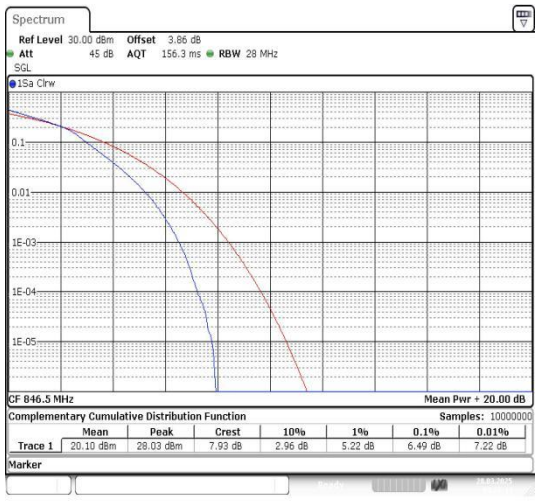

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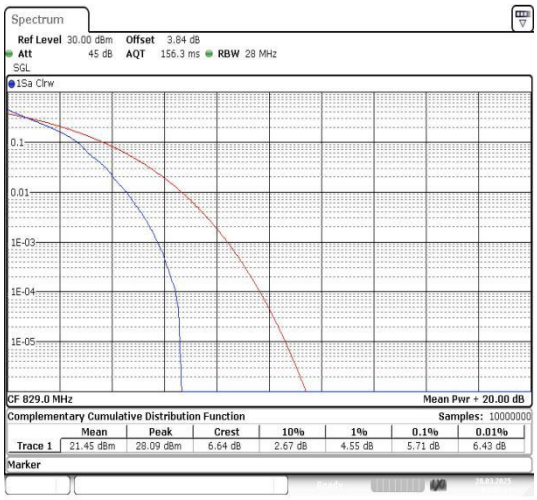

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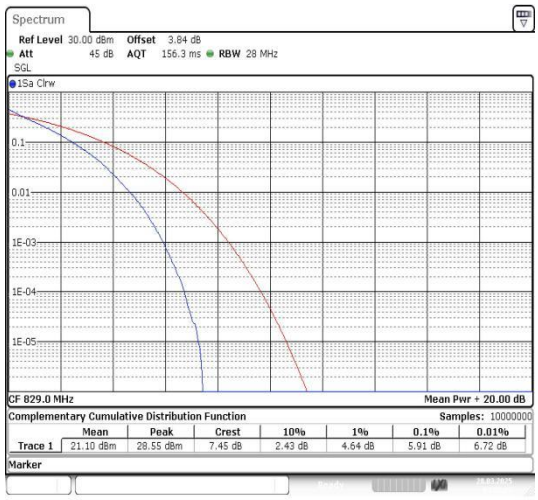

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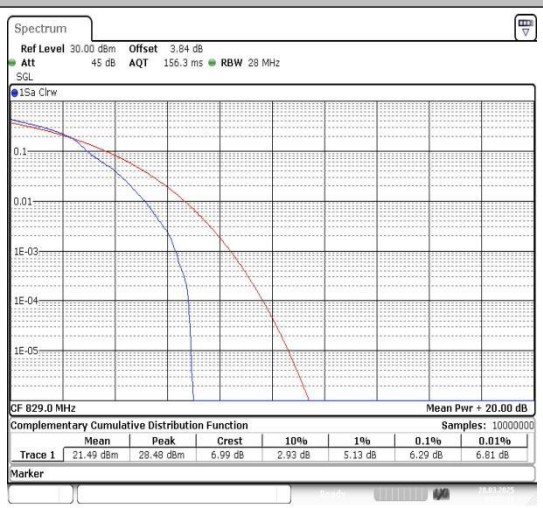

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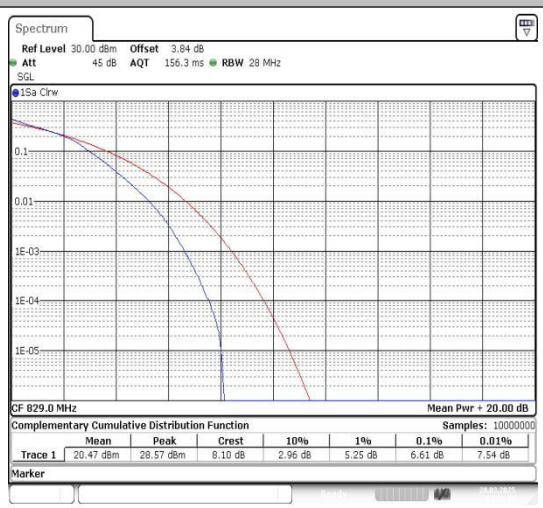
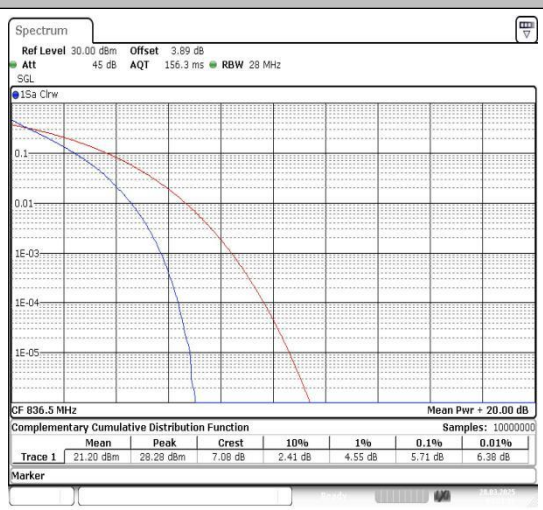


Band5-10MHz-16QAM-20450-50RB#0-PASS

Band5-10MHz-QPSK-20525-1RB#0-PASS



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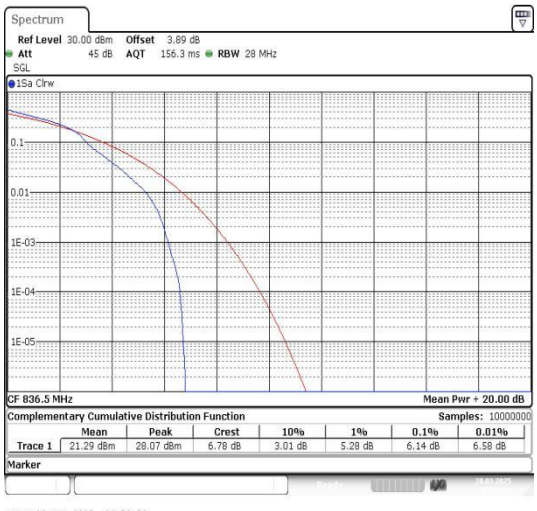

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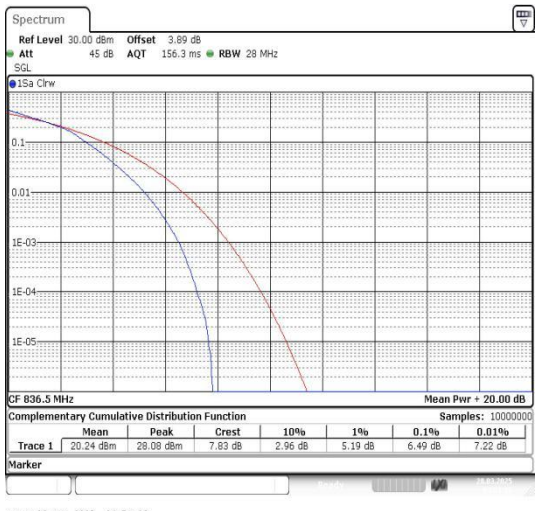

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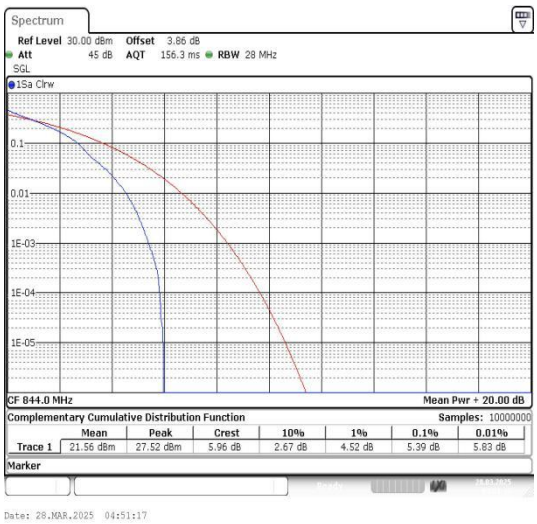
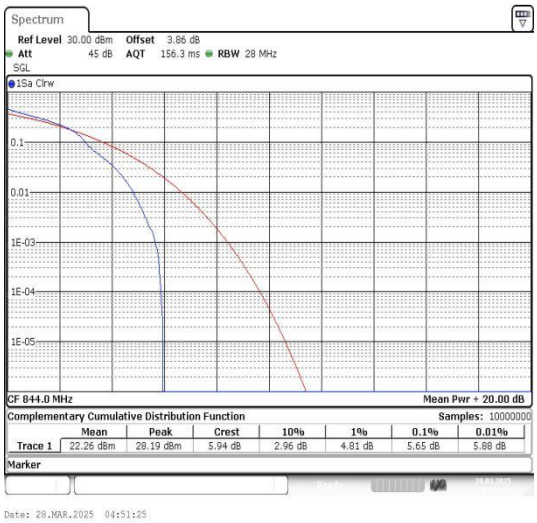


Band5-10MHz-QPSK-20600-1RB#0-PASS

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



Band5-10MHz-16QAM-20600-1RB#0-PASS

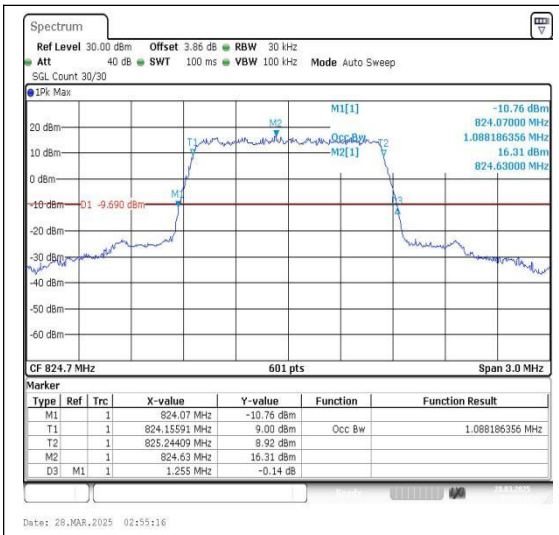
Band5-10MHz-16QAM-20600-50RB#0-PASS

Appendix C: 26dB Bandwidth and Occupied Bandwidth

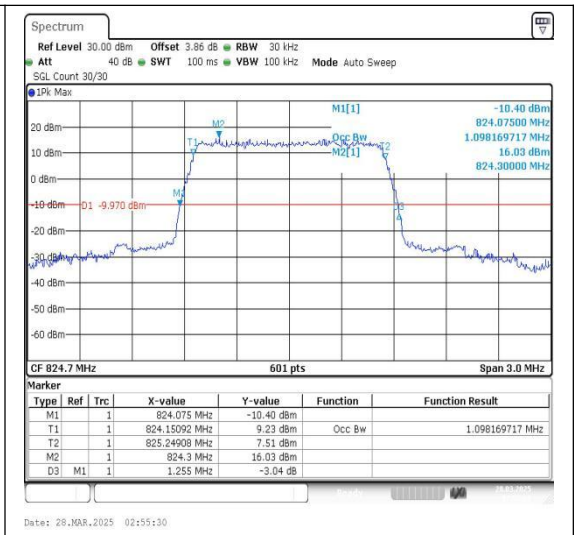
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.088	1.26	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.098	1.26	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.098	1.25	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.098	1.26	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.098	1.26	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.093	1.25	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.705	3.01	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.696	3.03	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.705	3.04	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.705	3.05	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.705	3.04	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.696	3.05	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.505	5.00	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.505	4.98	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.505	5.00	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.505	4.99	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.515	5.03	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.525	5.03	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.985	10.00	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.985	10.00	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.985	9.93	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.985	10.00	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.985	9.90	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.985	9.93	PASS

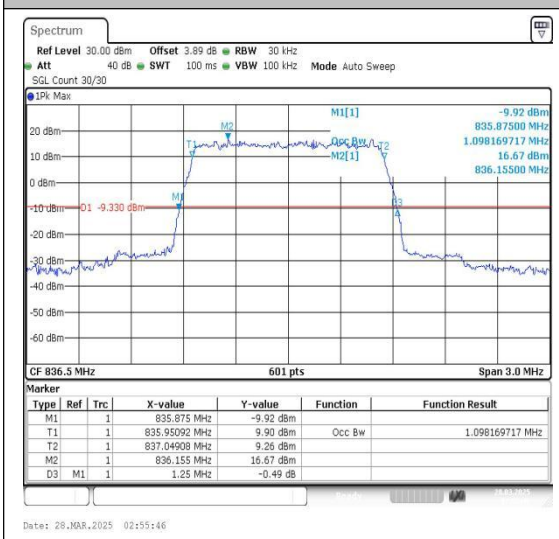
Test Graphs



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



Band5-1.4MHz-16QAM-20407-6RB#0-PASS



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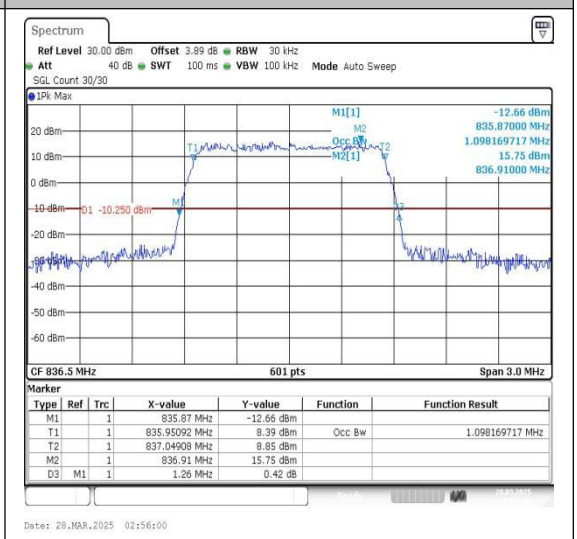

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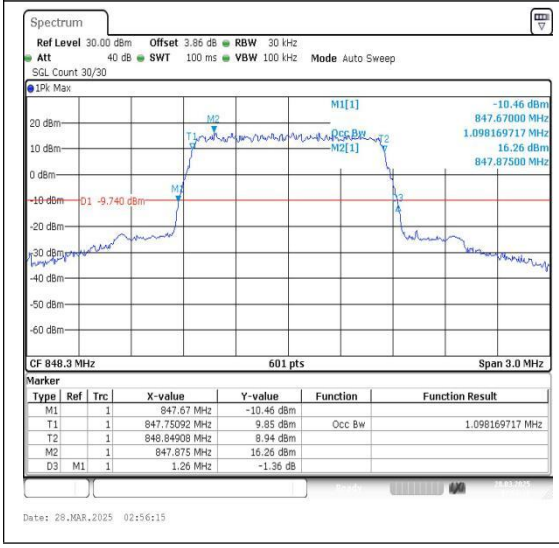

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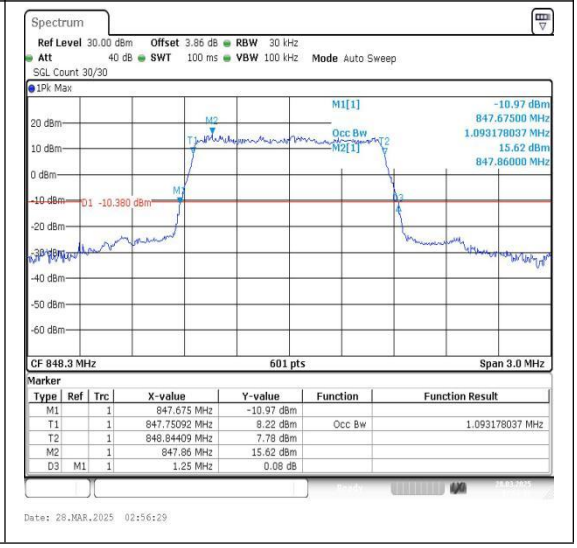
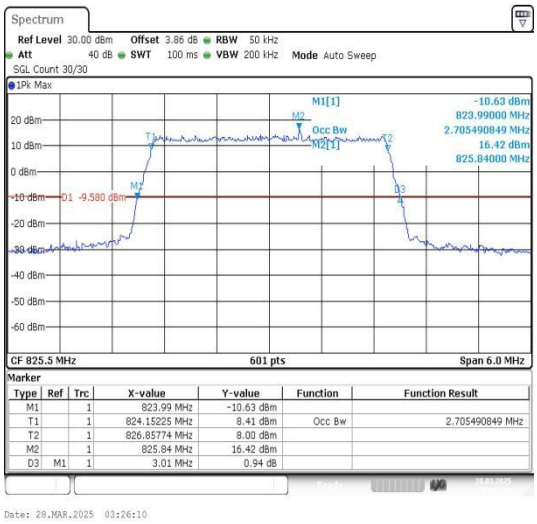


Band5-1.4MHz-QPSK-20643-6RB#0-PASS



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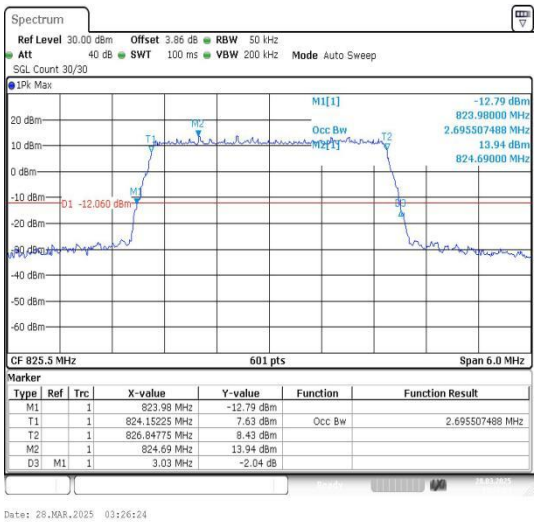

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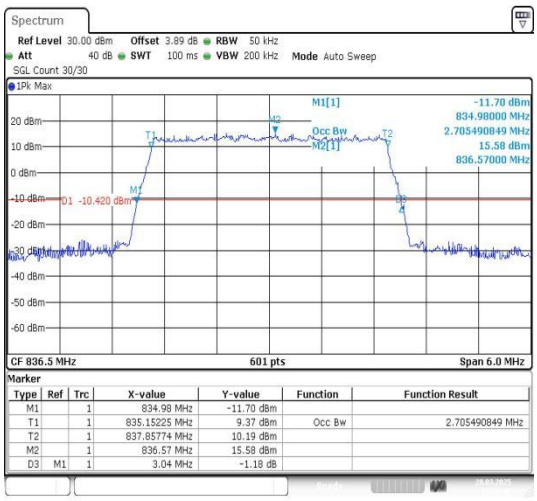

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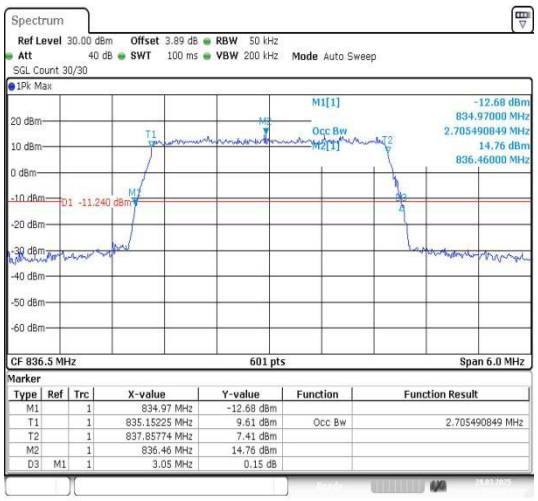

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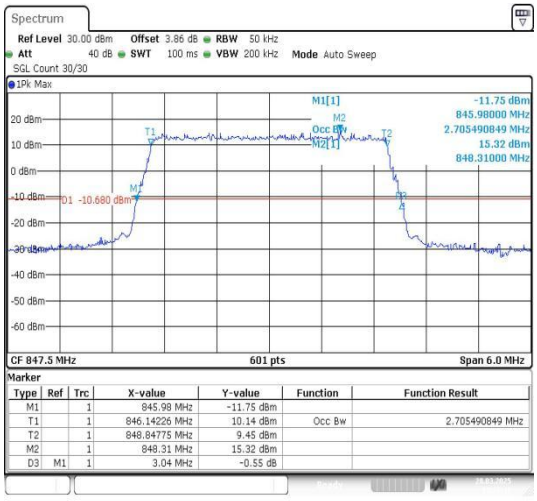

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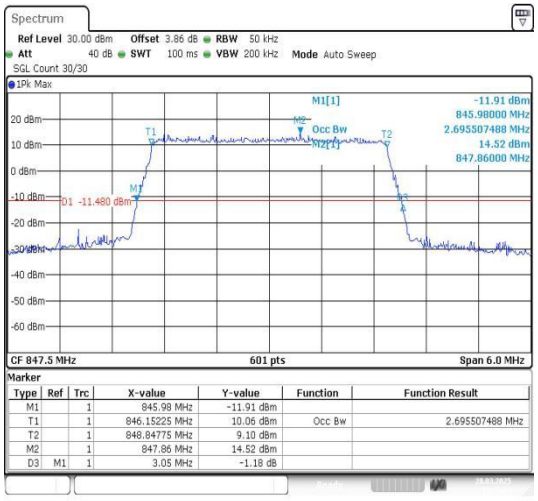
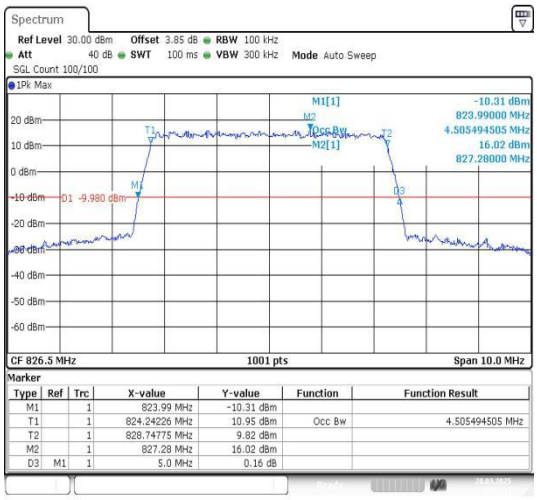
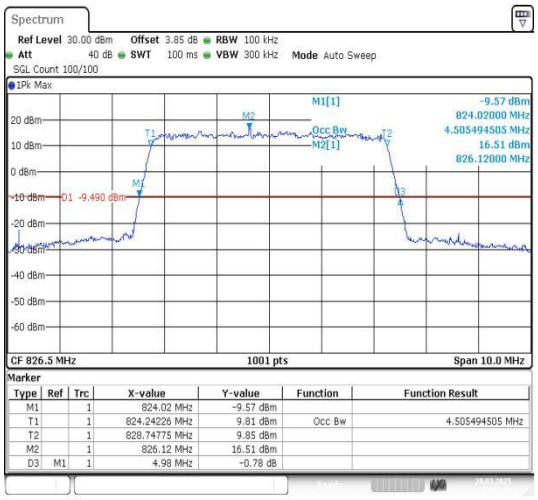


Band5-3MHz-QPSK-20635-15RB#0-PASS

Band5-3MHz-16QAM-20635-15RB#0-PASS



Band5-5MHz-QPSK-20425-25RB#0-PASS



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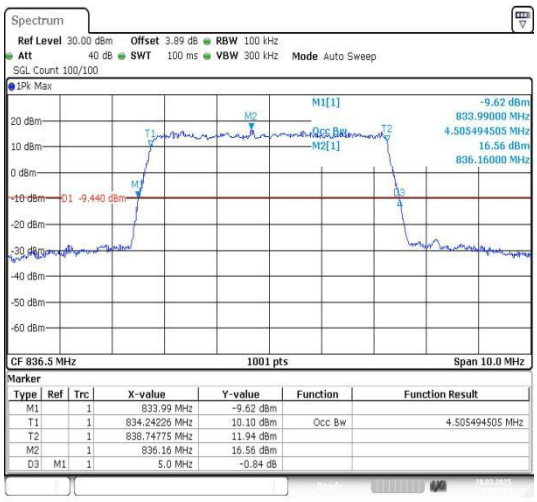

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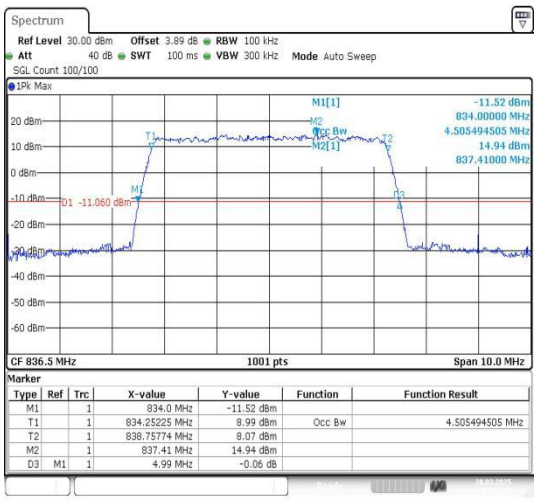

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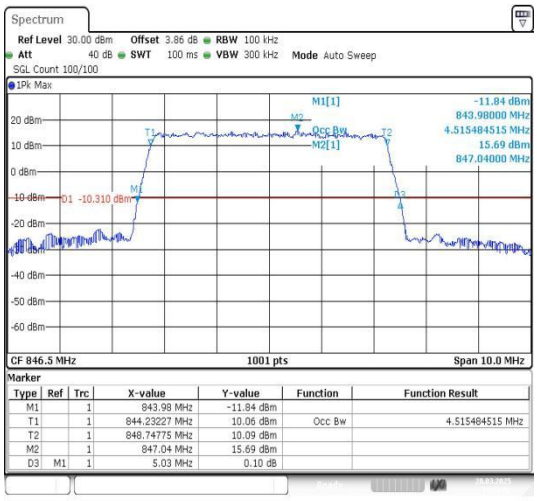
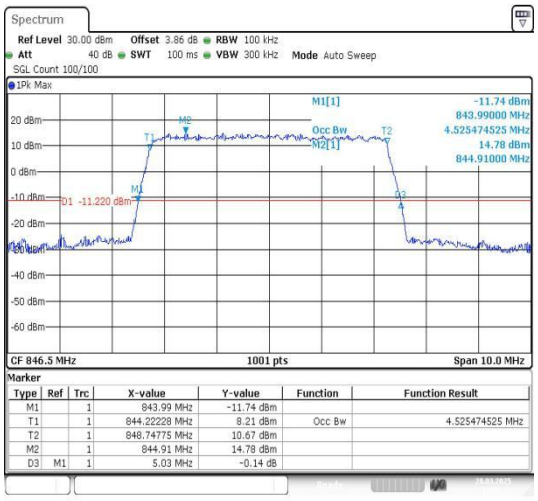


Band5-5MHz-QPSK-20625-25RB#0-PASS



Band5-5MHz-16QAM-20625-25RB#0-PASS