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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	23.32	23.73	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.46	23.87	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.49	23.9	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.57	22.98	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.74	24.15	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.78	24.19	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.86	24.27	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.79	23.2	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.17	23.58	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.19	23.6	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.09	23.5	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.23	22.64	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.67	23.08	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.77	23.18	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.82	23.23	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.64	22.05	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.04	23.45	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.11	23.52	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.02	23.43	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.95	22.36	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.56	22.97	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.39	22.8	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.44	22.85	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.27	21.68	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	21.74	22.15	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	21.8	22.21	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	21.78	22.19	38.45	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	20.55	20.96	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	21.94	22.35	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	22.09	22.5	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.04	22.45	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	20.79	21.2	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	21.42	21.83	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	21.35	21.76	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	21.04	21.45	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	20.17	20.58	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.42	23.83	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.67	24.08	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.61	24.02	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.61	23.02	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.79	24.2	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.91	24.32	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.82	24.23	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.86	23.27	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.25	23.66	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.29	23.7	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.11	23.52	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.41	22.82	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.68	23.09	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23	23.41	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.02	23.43	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.72	22.13	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.09	23.5	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.16	23.57	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.18	23.59	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.86	22.27	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.62	23.03	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.66	23.07	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.43	22.84	38.45	PASS



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Band5	3MHz	16QAM	20635	15RB#0	21.27	21.68	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	21.83	22.24	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	22.01	22.42	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	21.9	22.31	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	20.64	21.05	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	22.15	22.56	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	22.16	22.57	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	22.01	22.42	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	20.9	21.31	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	21.53	21.94	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	21.58	21.99	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	21.44	21.85	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	20.21	20.62	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.4	23.81	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.7	24.11	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.71	24.12	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.68	23.09	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.79	24.2	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.91	24.32	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.79	24.2	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.92	23.33	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.42	23.83	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.36	23.77	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.13	23.54	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.38	22.79	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.7	23.11	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.84	23.25	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.95	23.36	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.77	22.18	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.12	23.53	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.29	23.7	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.99	23.4	38.45	PASS



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Band5	5MHz	16QAM	20525	25RB#0	21.93	22.34	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.69	23.1	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.65	23.06	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.39	22.8	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.45	21.86	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	21.78	22.19	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	21.86	22.27	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	21.87	22.28	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	20.76	21.17	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	22.04	22.45	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	22.2	22.61	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	21.97	22.38	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	20.93	21.34	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	21.75	22.16	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	21.47	21.88	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	21.42	21.83	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	20.46	20.87	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.5	23.91	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.72	24.13	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.95	24.36	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.78	23.19	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.85	24.26	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.74	24.15	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.62	24.03	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.85	23.26	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.85	24.26	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.44	23.85	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.09	23.5	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.55	22.96	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.73	23.14	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.17	23.58	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.39	23.8	38.45	PASS



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Band5	10MHz	16QAM	20450	50RB#0	21.77	22.18	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.23	23.64	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.03	23.44	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.93	23.34	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.72	22.13	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.96	23.37	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.92	23.33	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.41	22.82	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.5	21.91	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	21.87	22.28	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	21.9	22.31	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	22.13	22.54	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	20.83	21.24	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	21.99	22.4	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	21.93	22.34	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	21.94	22.35	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	20.65	21.06	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	21.92	22.33	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	21.66	22.07	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	21.35	21.76	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	20.51	20.92	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	5.34	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.32	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.18	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.08	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.08	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.08	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.58	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.54	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.42	13	PASS



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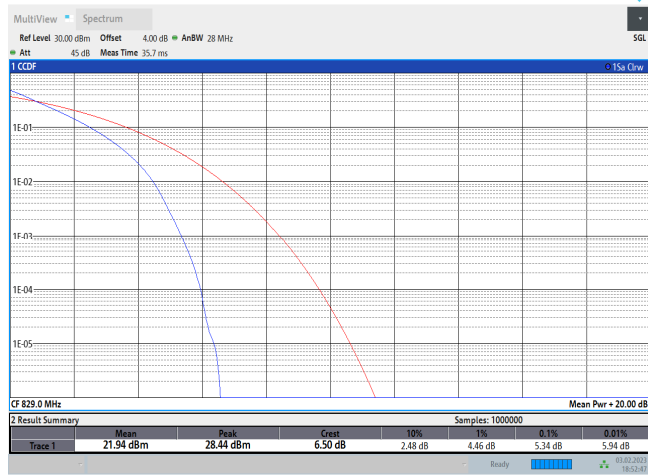
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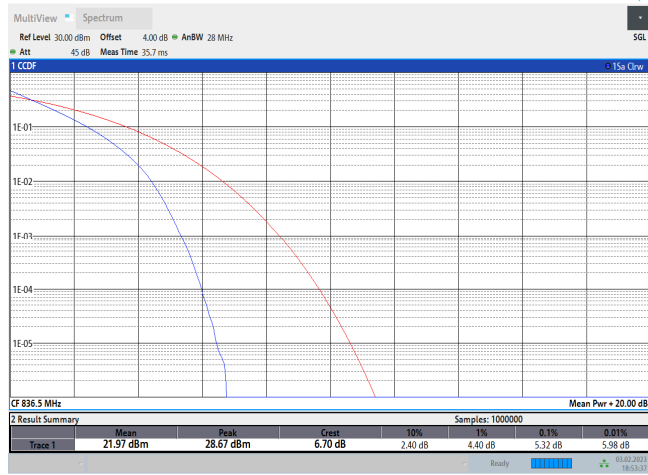
Test Graphs

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



18:52:48 03.02.2023

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



18:53:38 03.02.2023

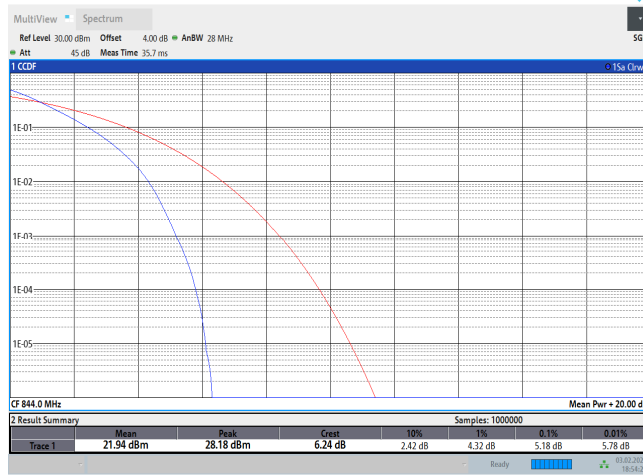


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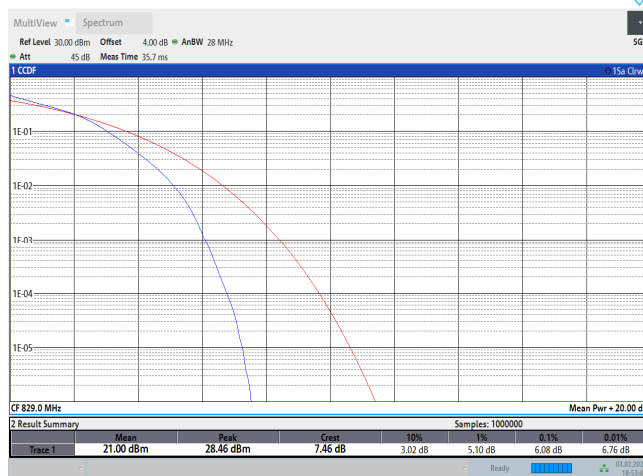
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Band5-10MHz-QPSK-20600-50RB#0



18:54:27 03.02.2023

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



18:53:05 03.02.2023

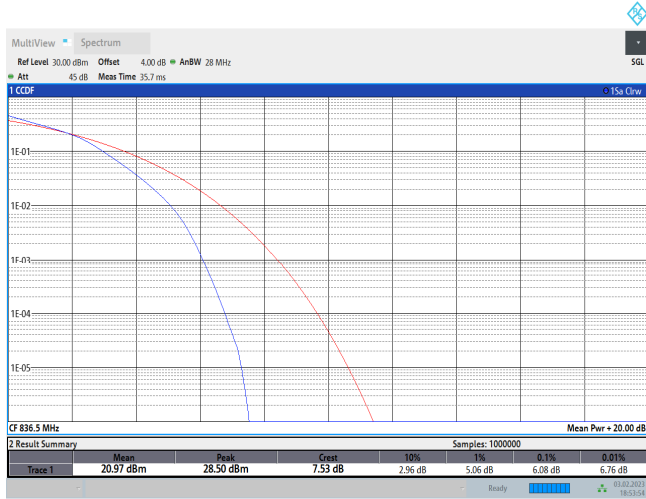


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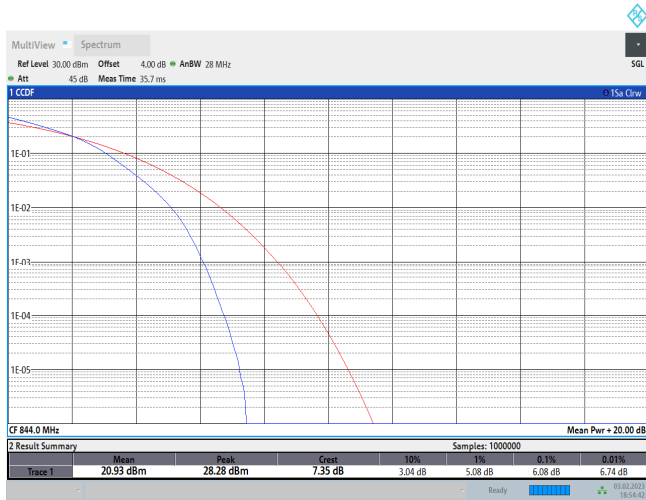
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Band5-10MHz-16QAM-20525-50RB#0



18:53:54 03.02.2023

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

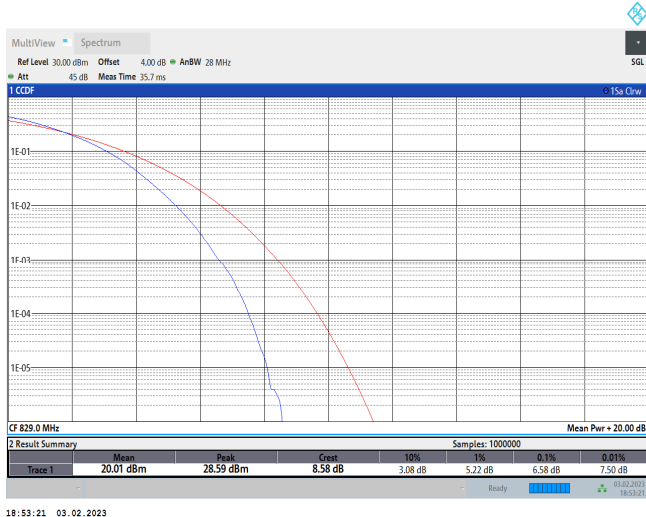


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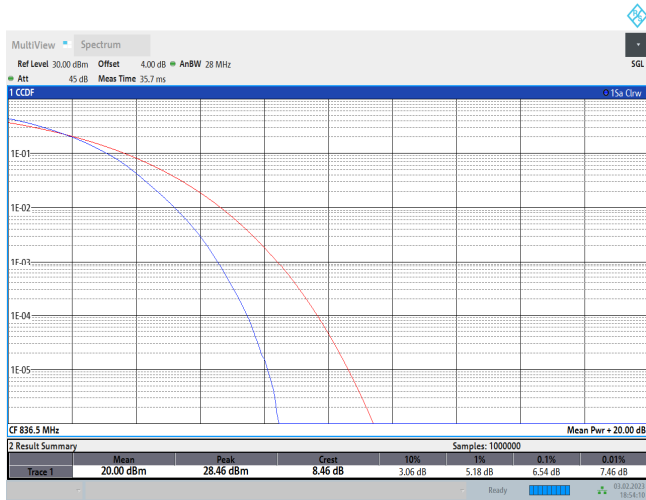
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Band5-10MHz-64QAM-20450-50RB#0



18:53:21 03.02.2023

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



18:54:10 03.02.2023

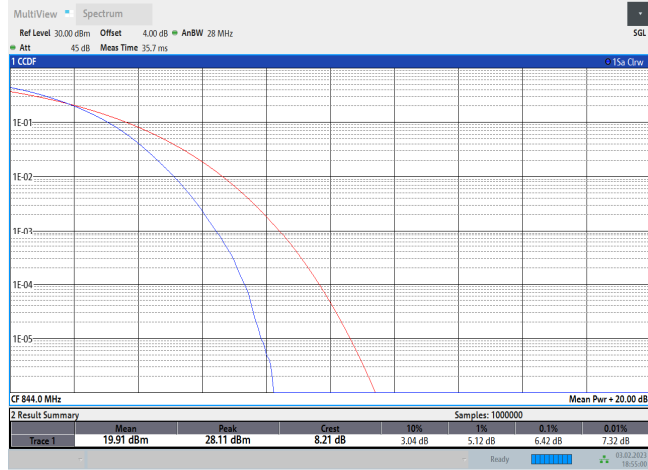


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Band5-10MHz-64QAM-20600-50RB#0



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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	1.084	1.23	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.084	1.23	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.084	1.23	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.24	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.092	1.25	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.092	1.24	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.09	1.24	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.09	1.24	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.09	1.24	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.694	2.98	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.696	2.95	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.691	2.98	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.688	2.98	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.688	2.98	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.688	2.99	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.688	2.97	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.686	2.96	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.688	2.96	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.475	4.85	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.468	4.88	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.467	4.88	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.468	4.89	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.468	4.89	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.459	4.90	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.479	4.90	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.473	4.90	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.467	4.88	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.928	9.62	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.922	9.66	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.898	9.64	PASS



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Report No.: SEWA2211000082RG01

Rev.: 01

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Band5	10MHz	16QAM	20450	50RB#0	8.905	9.62	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.907	9.60	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.887	9.62	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.916	9.64	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.926	9.60	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.91	9.56	PASS



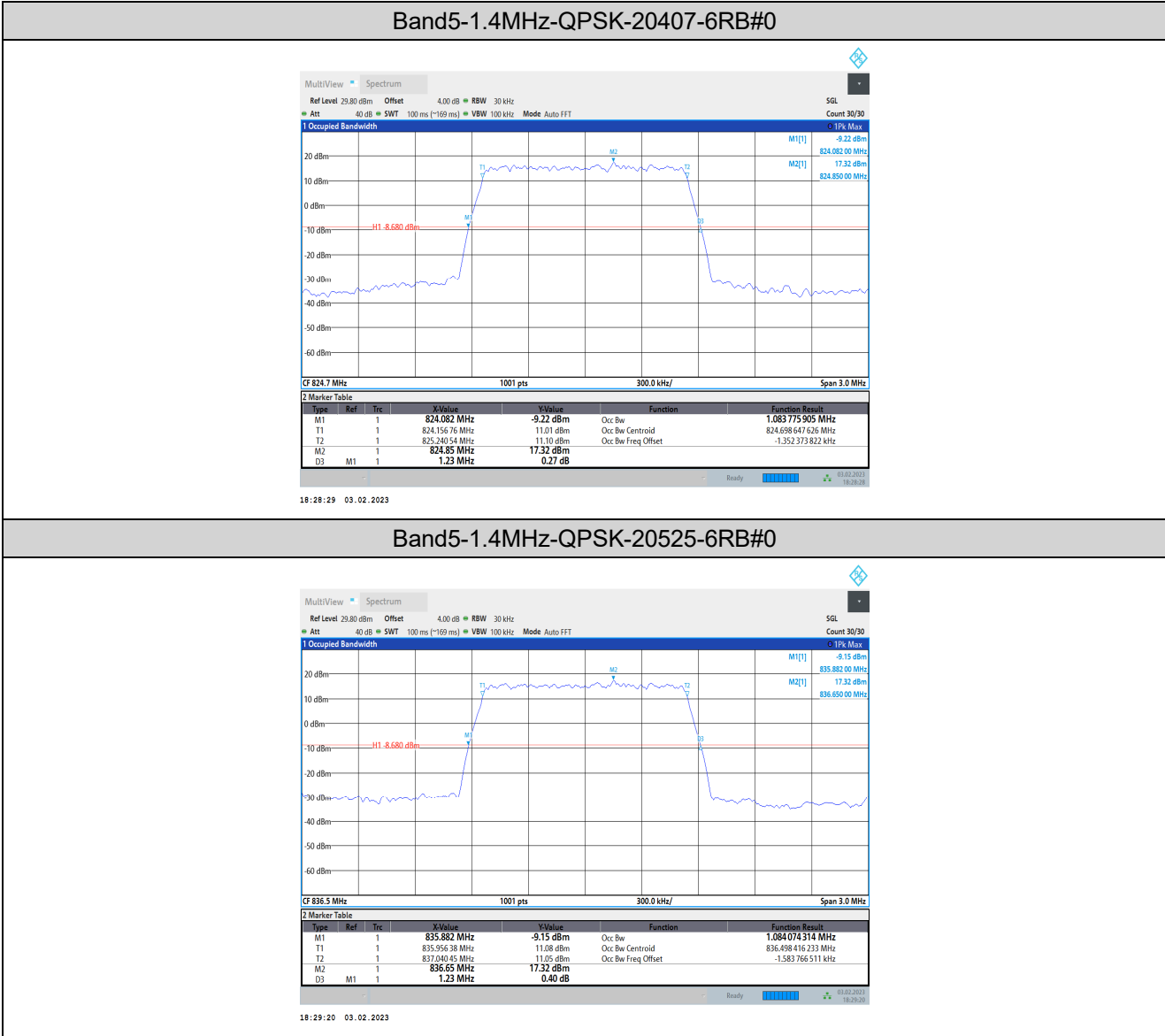
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Test Graphs

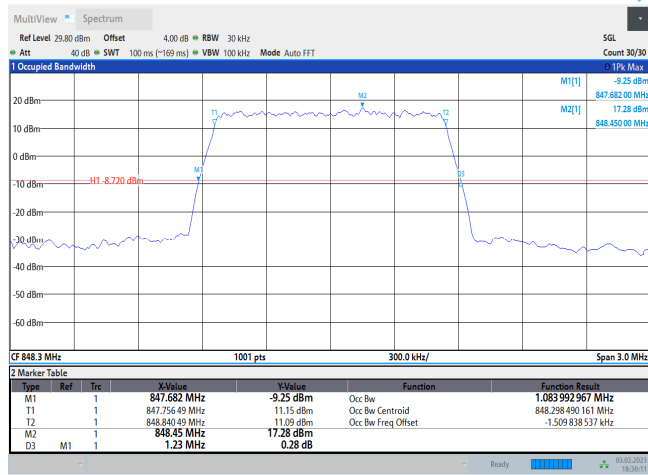


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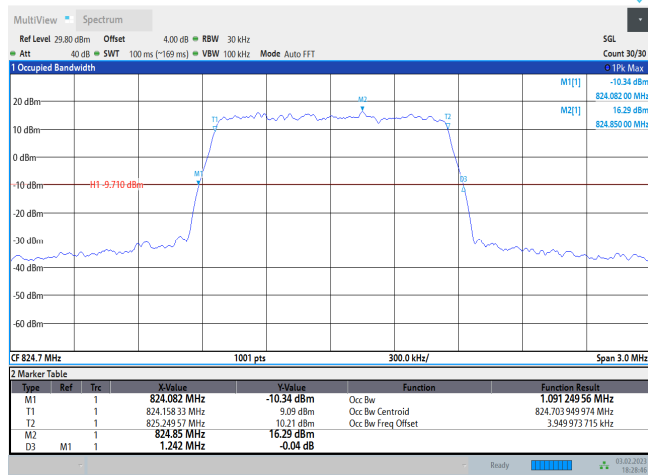
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Band5-1.4MHz-QPSK-20643-6RB#0



18:30:12 03.02.2023

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



18:28:46 03.02.2023



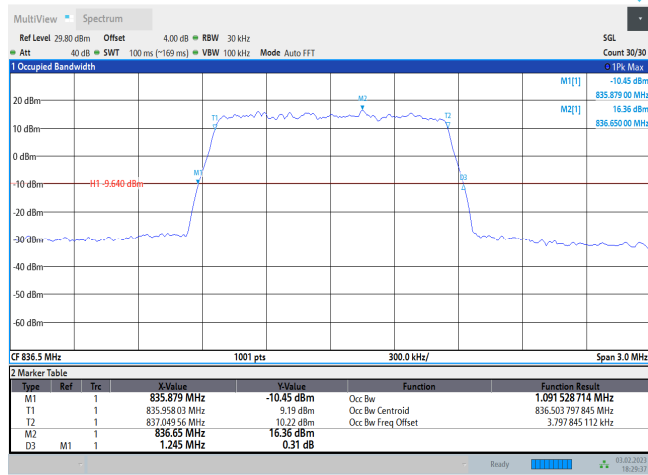
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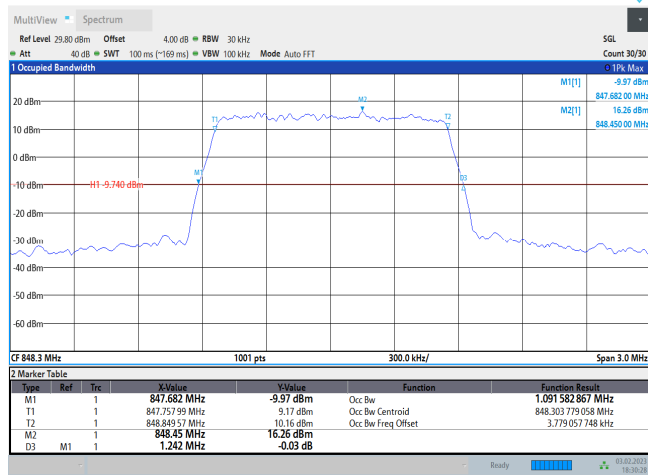
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Band5-1.4MHz-16QAM-20525-6RB#0



18:29:37 03.02.2023

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



18:30:29 03.02.2023

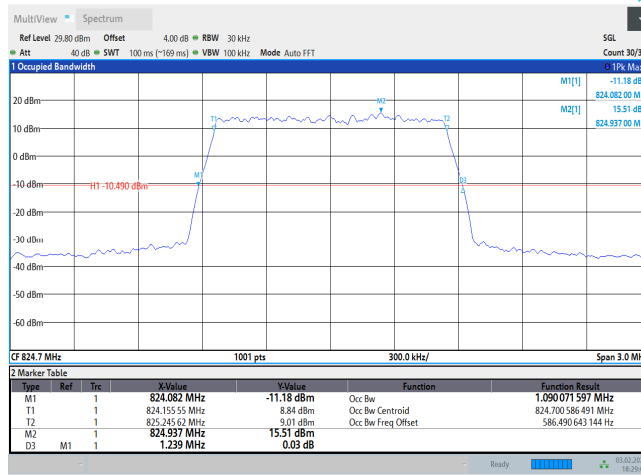


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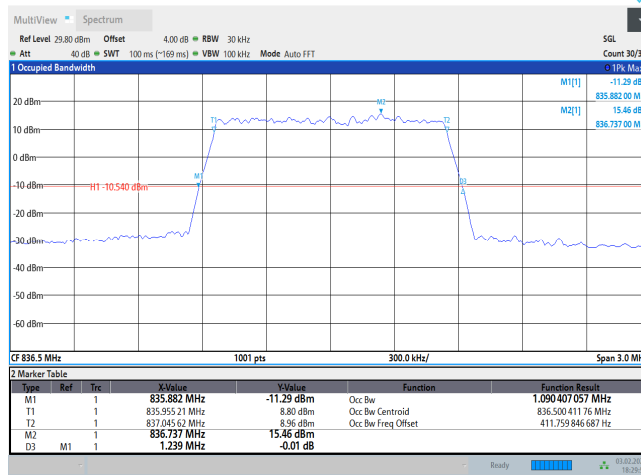
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Band5-1.4MHz-64QAM-20407-6RB#0



18:29:03 03.02.2023

Band5-1.4MHz-64QAM-20525-6RB#0



18:29:54 03.02.2023



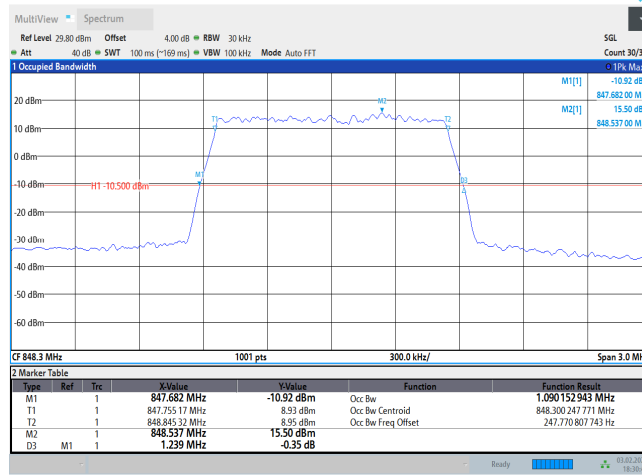
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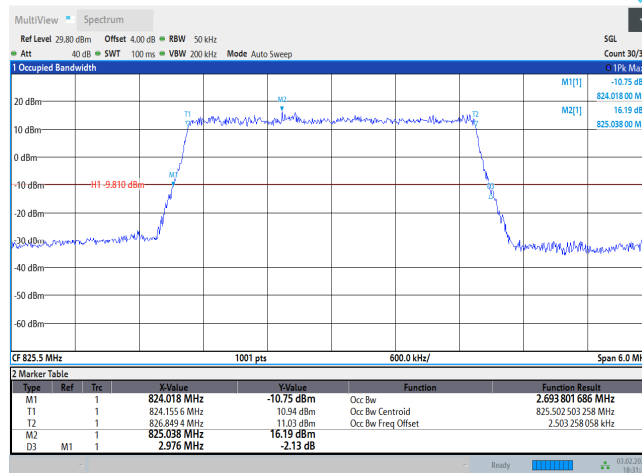
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Band5-1.4MHz-64QAM-20643-6RB#0



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Band5-3MHz-QPSK-20415-15RB#0



18:31:17 03.02.2023

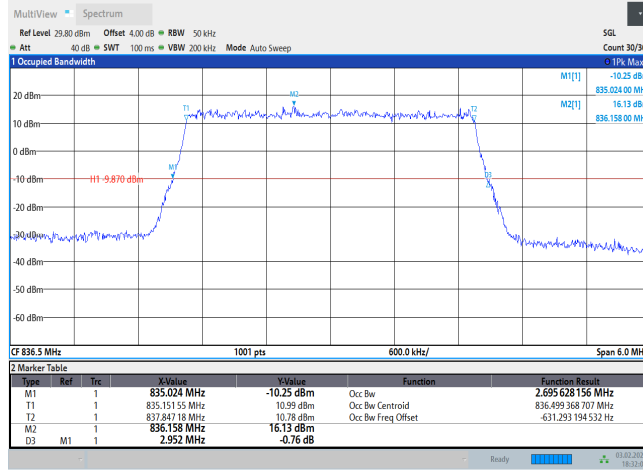


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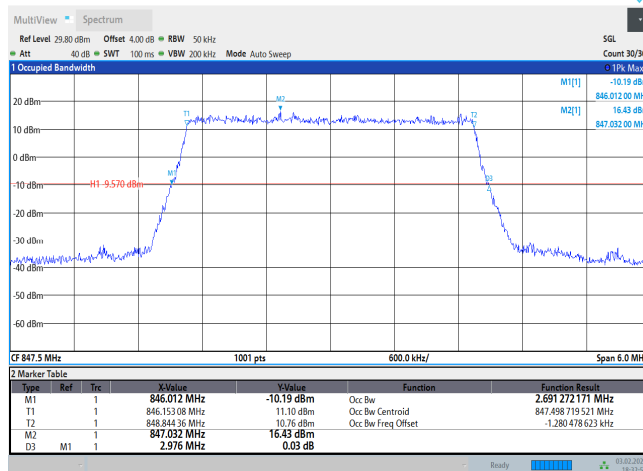
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Band5-3MHz-QPSK-20525-15RB#0



18:32:06 03.02.2023

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



18:32:55 03.02.2023

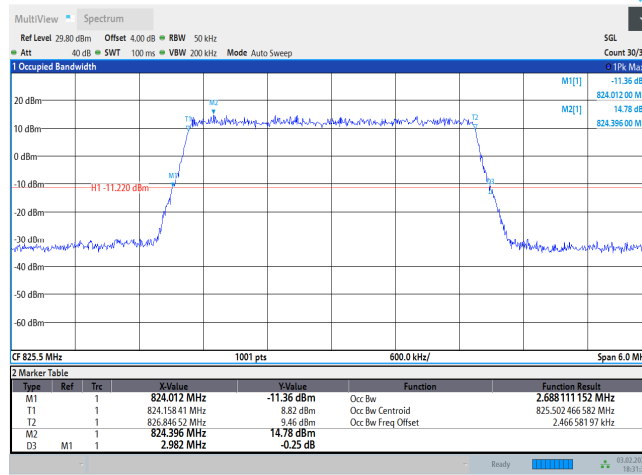


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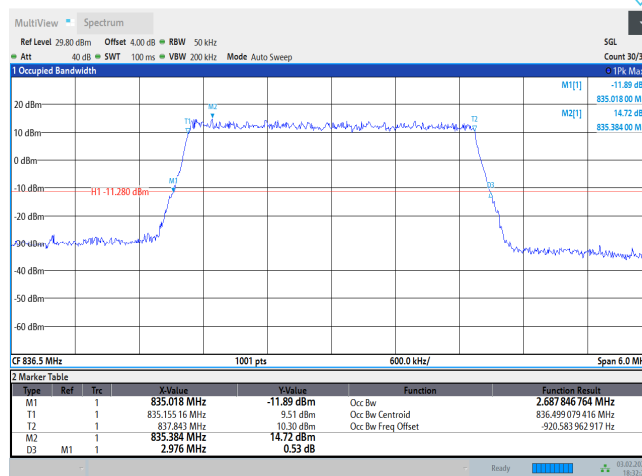
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Band5-3MHz-16QAM-20415-15RB#0



18:31:33 03.02.2023

Band5-3MHz-16QAM-20525-15RB#0



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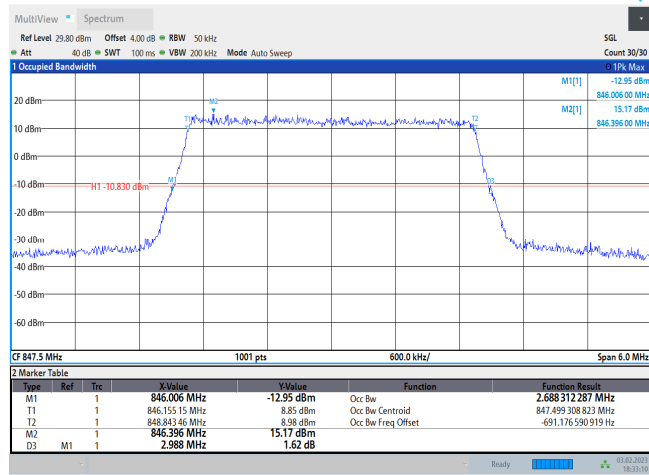


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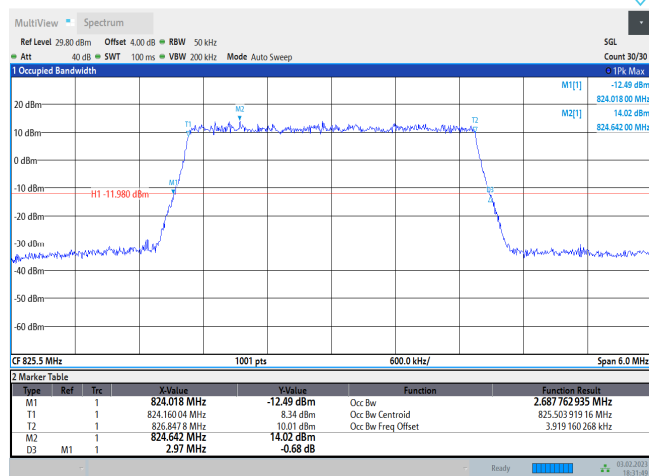
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Band5-3MHz-16QAM-20635-15RB#0



18:33:11 03.02.2023

Band5-3MHz-64QAM-20415-15RB#0



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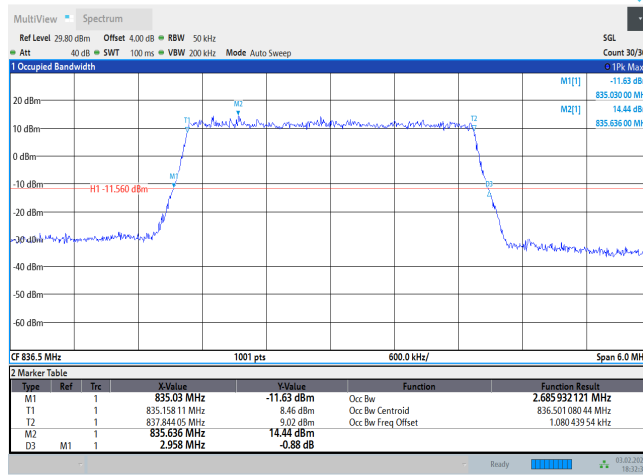


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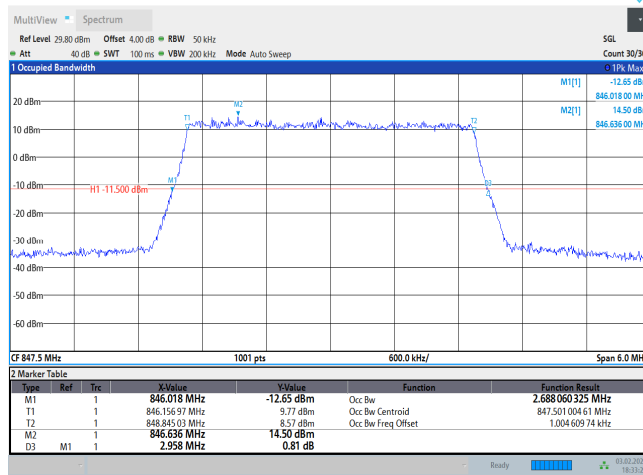
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Band5-3MHz-64QAM-20525-15RB#0



18:32:38 03.02.2023

Band5-3MHz-64QAM-20635-15RB#0



18:33:27 03.02.2023



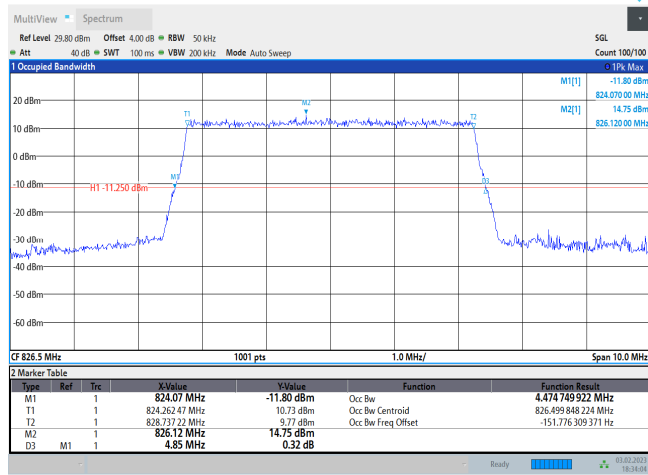
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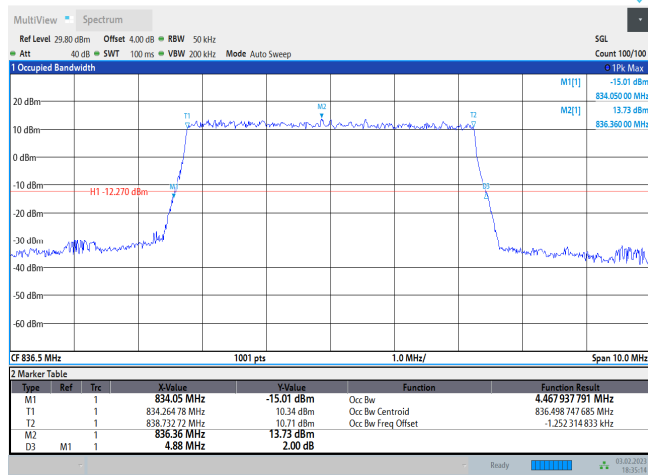
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Band5-5MHz-QPSK-20425-25RB#0



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Band5-5MHz-QPSK-20525-25RB#0



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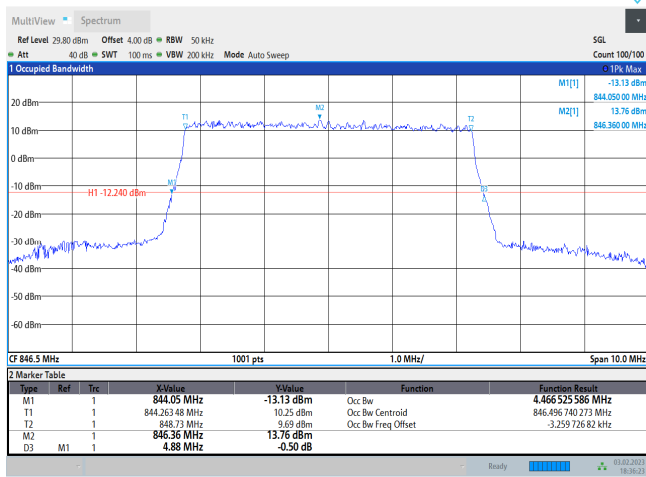


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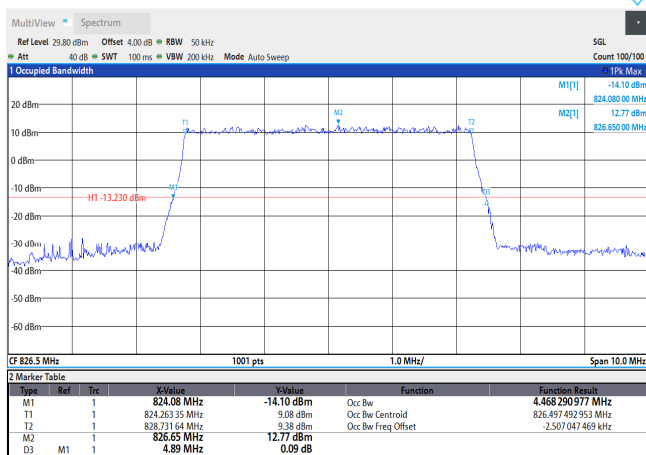
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Band5-5MHz-QPSK-20625-25RB#0



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Band5-5MHz-16QAM-20425-25RB#0

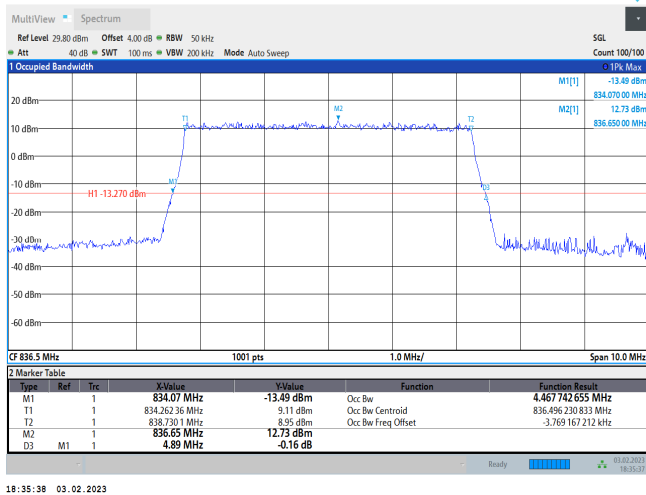


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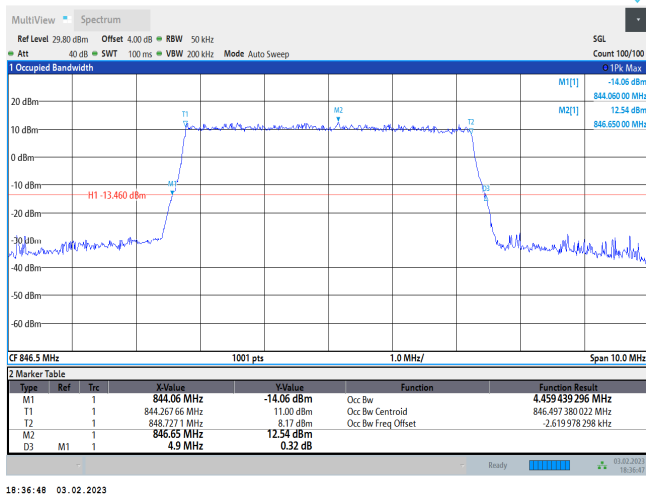


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Band5-5MHz-16QAM-20525-25RB#0



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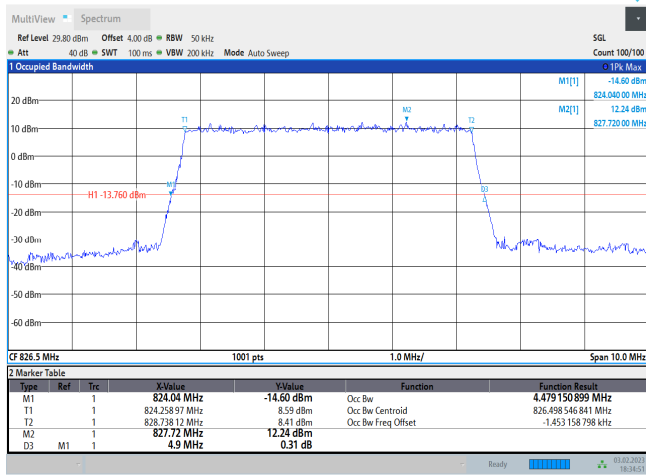


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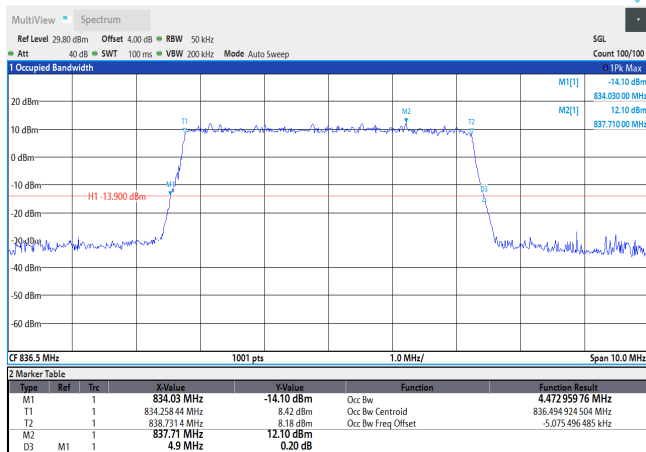
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Band5-5MHz-64QAM-20525-25RB#0



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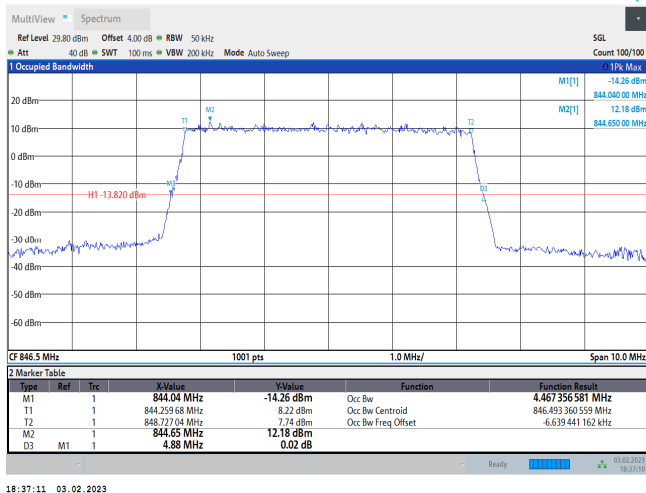


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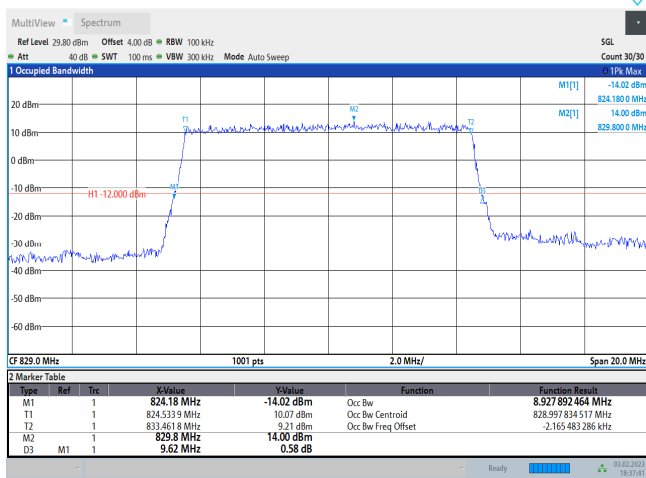
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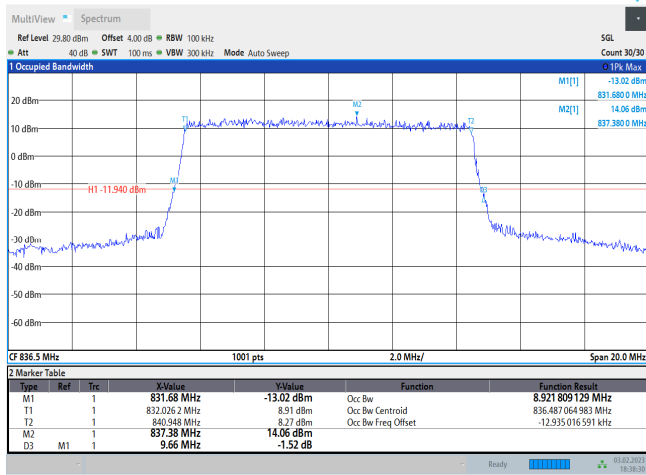


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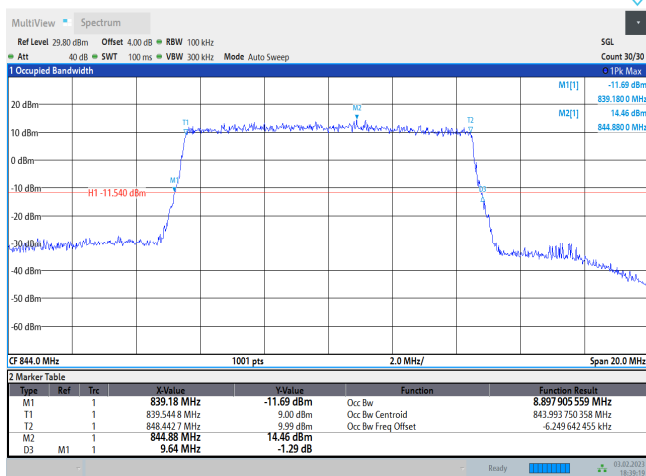
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Band5-10MHz-QPSK-20600-50RB#0



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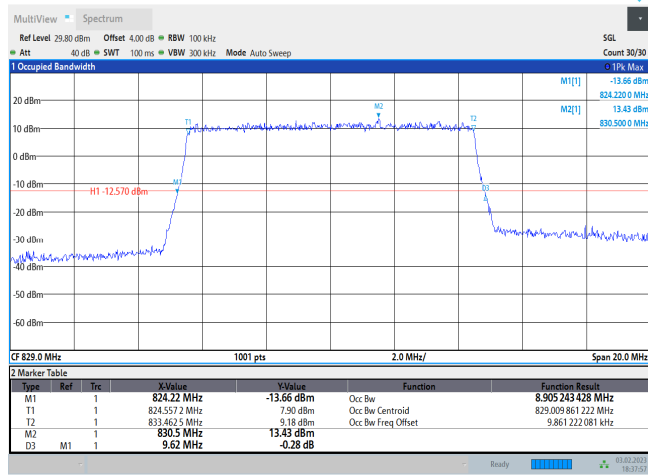


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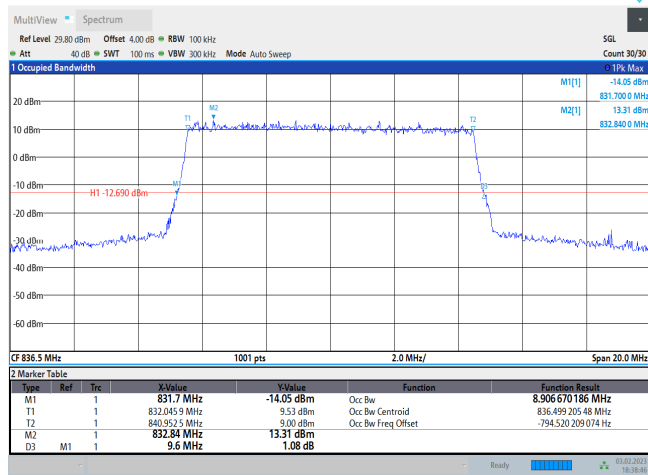
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Band5-10MHz-16QAM-20450-50RB#0



18:37:58 03.02.2023

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



18:38:47 03.02.2023



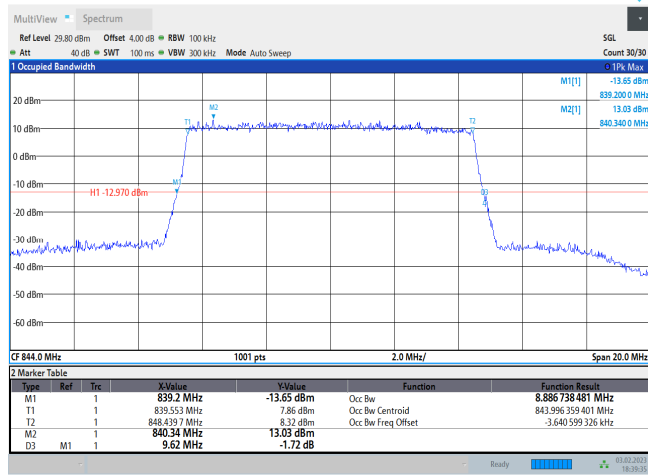
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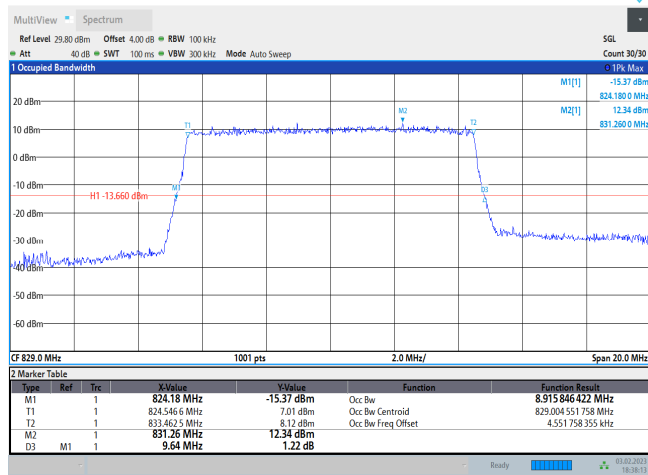
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Band5-10MHz-16QAM-20600-50RB#0



18:39:36 03.02.2023

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



18:38:14 03.02.2023

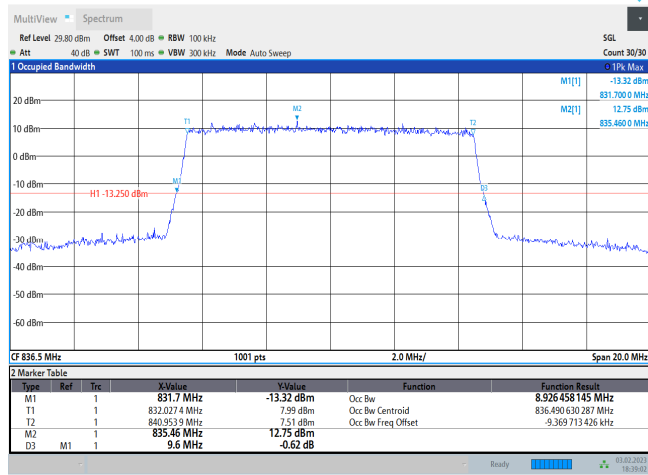


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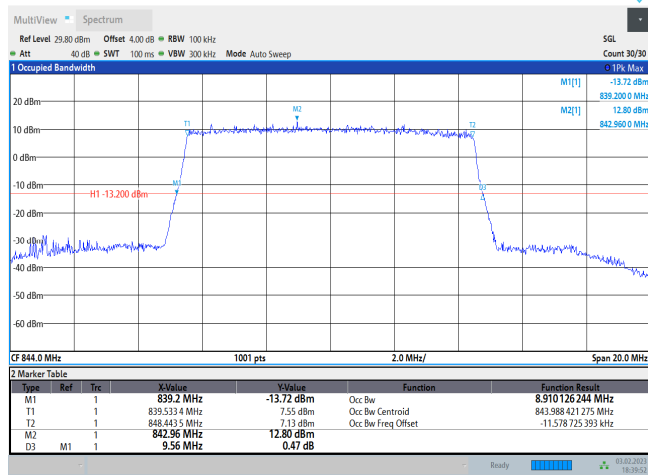
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Band5-10MHz-64QAM-20525-50RB#0



18:39:03 03.02.2023

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



18:39:52 03.02.2023



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Band Edge

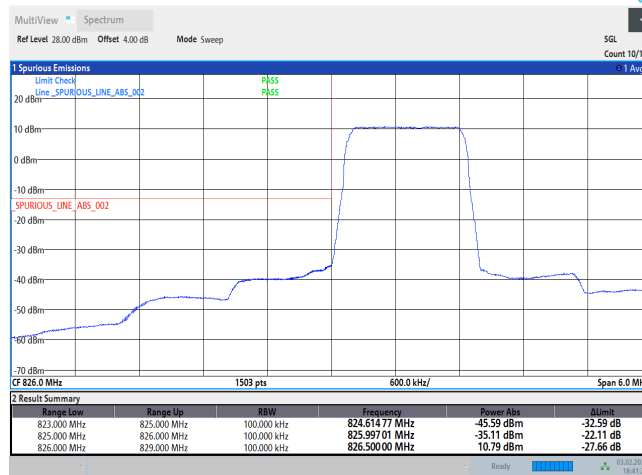
Test Graphs

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



18:40:48 03.02.2023

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



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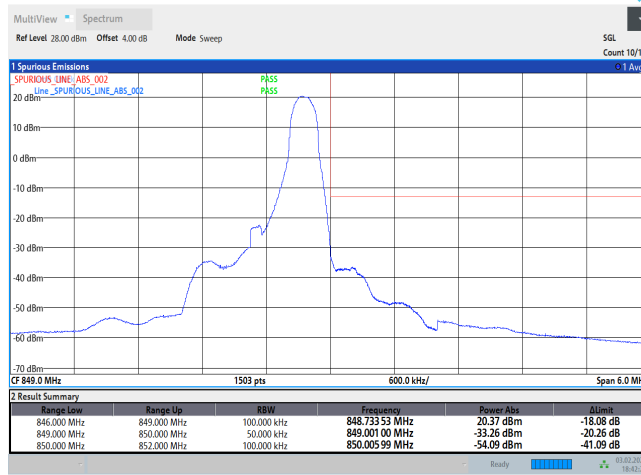


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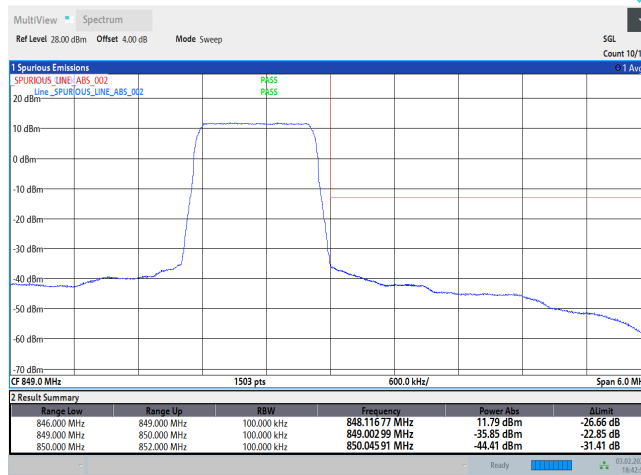
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Band5-1.4MHz-QPSK-20643-1RB#5



18:42:20 03.02.2023

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



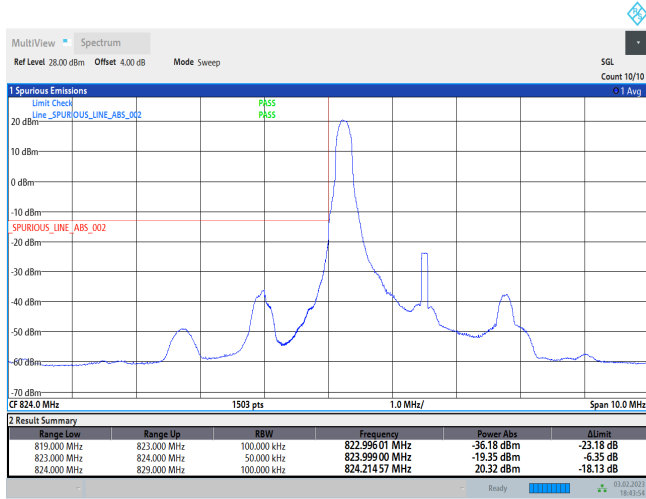
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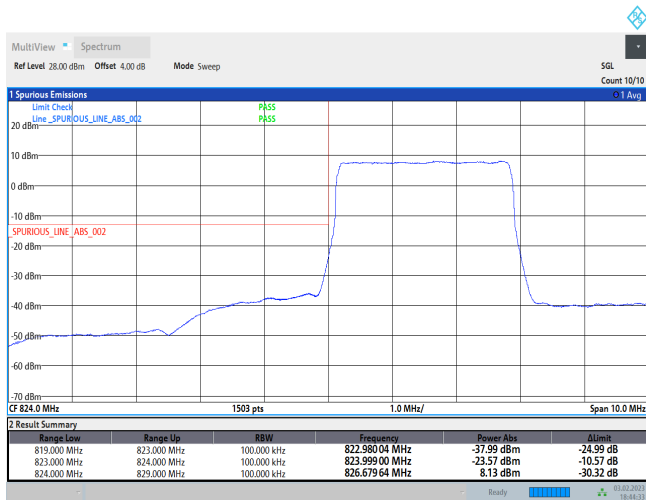
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Band5-3MHz-QPSK-20415-1RB#0



18:43:54 03.02.2023

Band5-3MHz-QPSK-20415-15RB#0

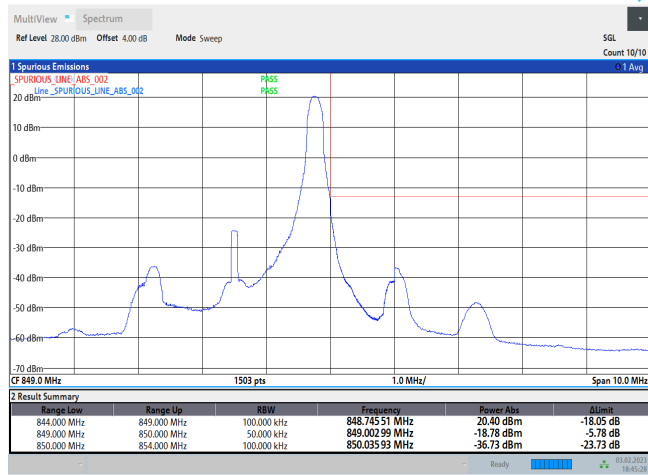


18:44:33 03.02.2023



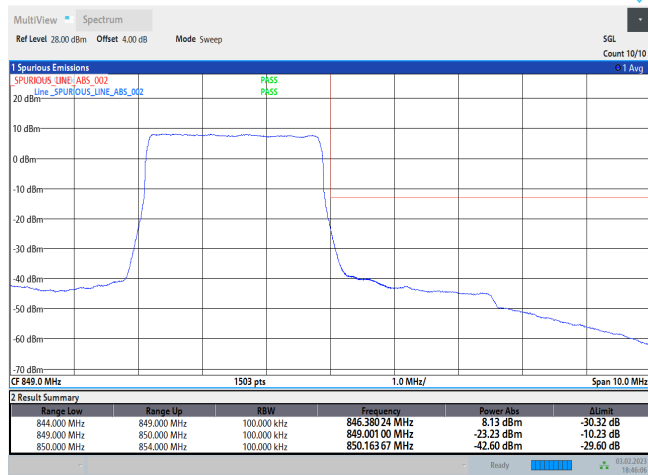
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Band5-3MHz-QPSK-20635-1RB#14



18:45:29 03.02.2023

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



18:46:06 03.02.2023

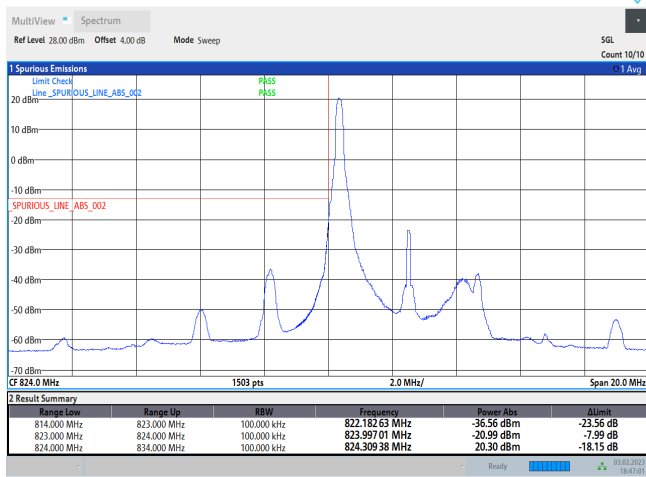


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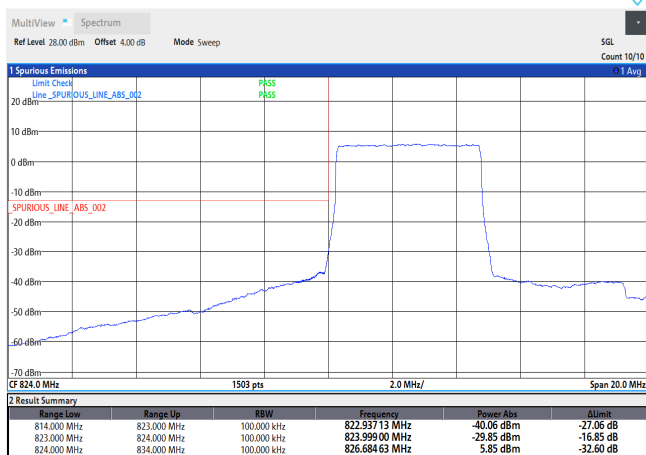
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Band5-5MHz-QPSK-20425-1RB#0



18:47:02 03.02.2023

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

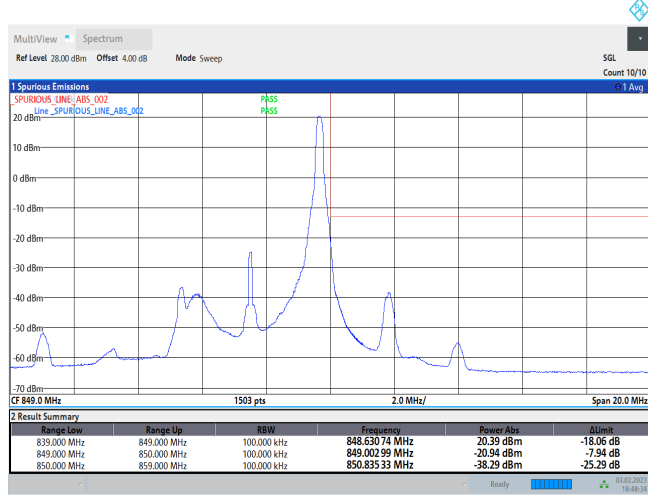


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Band5-5MHz-QPSK-20625-1RB#24



18:48:35 03.02.2023

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



18:49:12 03.02.2023

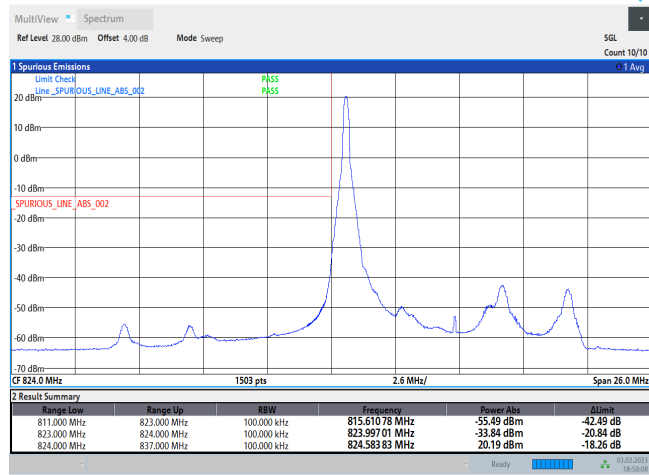


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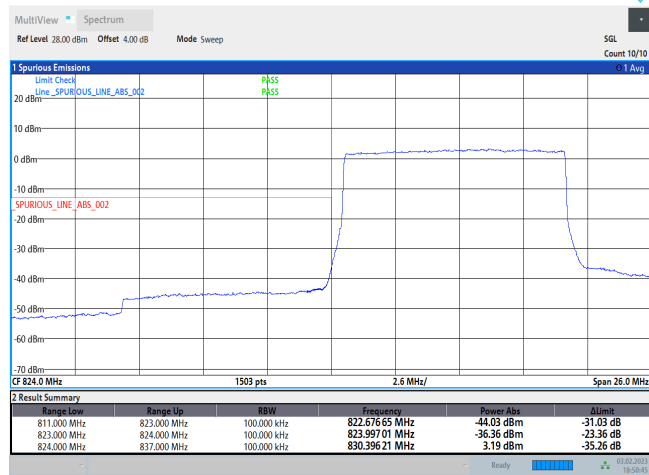
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Band5-10MHz-QPSK-20450-1RB#0



18:50:09 03.02.2023

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



18:50:46 03.02.2023

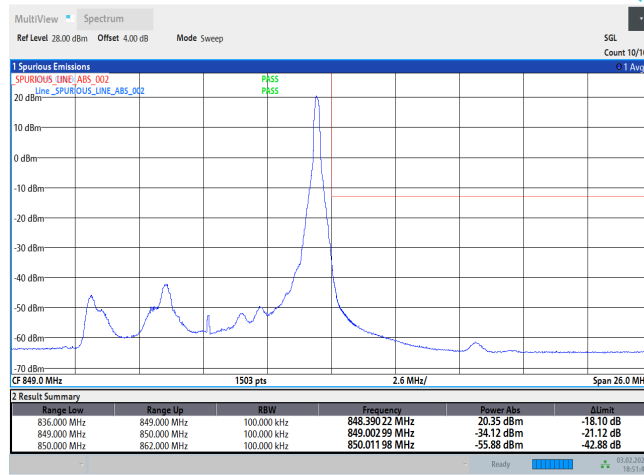


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Band5-10MHz-QPSK-20600-1RB#49



18:51:41 03.02.2023

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



18:52:19 03.02.2023



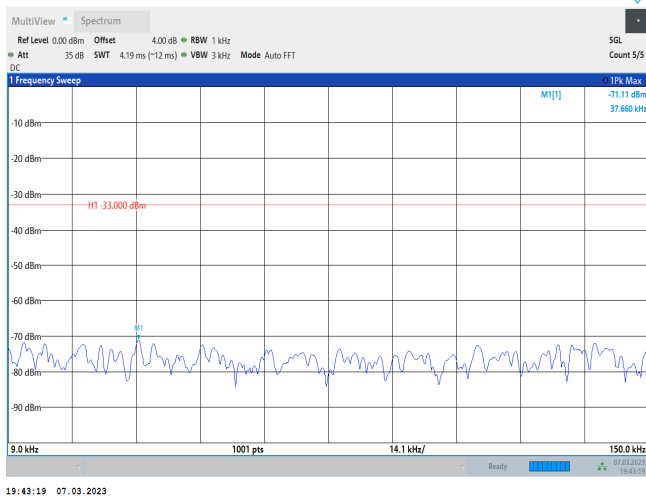
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Conducted Spurious Emission

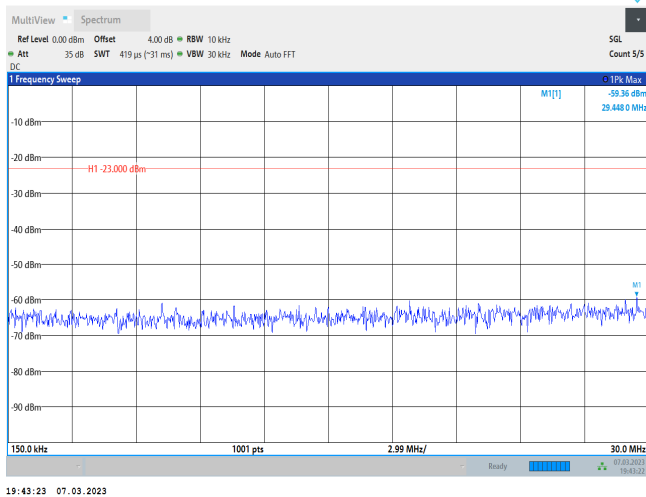
Test Graphs

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



19:43:19 07.03.2023

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

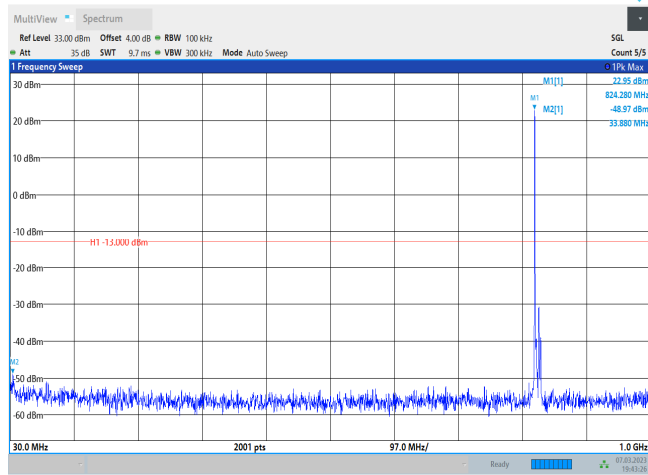


19:43:23 07.03.2023



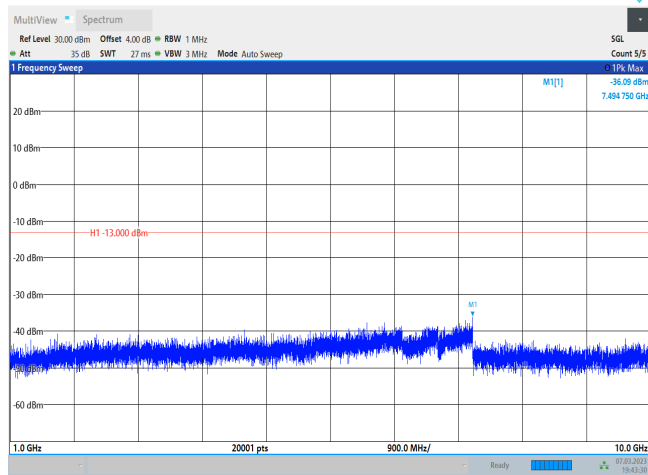
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



19:43:27 07.03.2023

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



19:43:31 07.03.2023

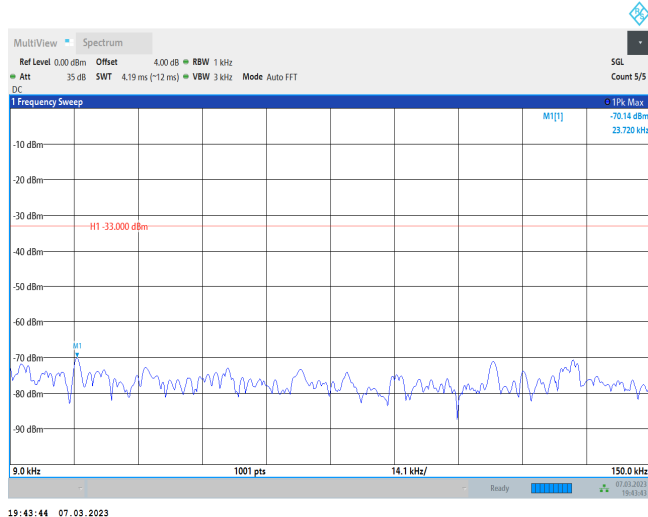


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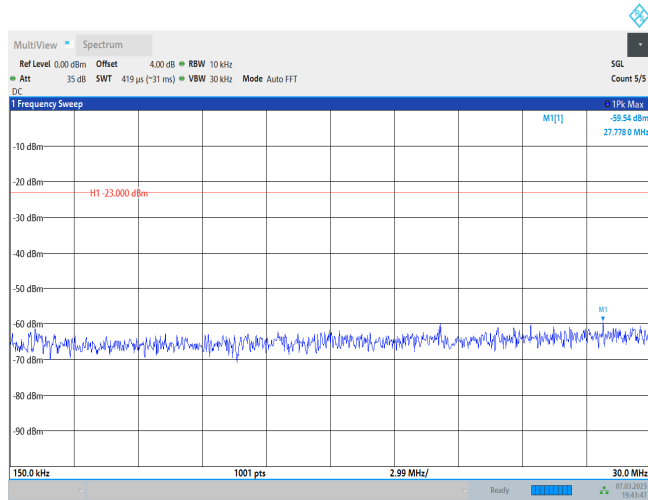
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



19:43:44 07.03.2023

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

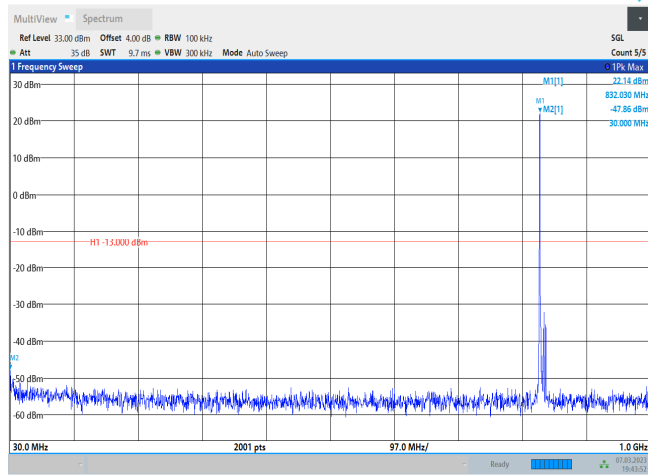


19:43:48 07.03.2023



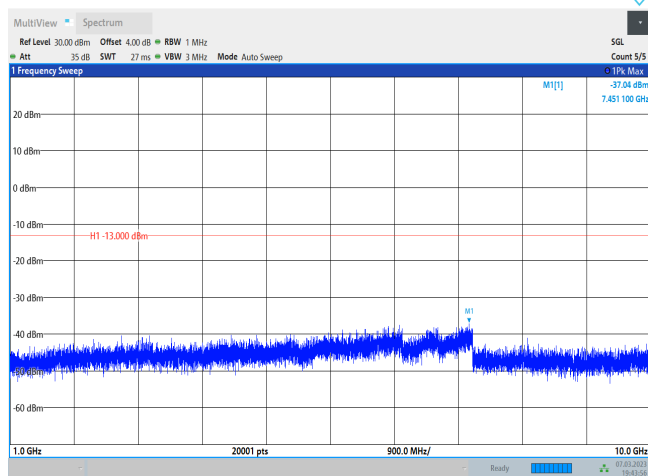
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



19:43:52 07.03.2023

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



19:43:56 07.03.2023

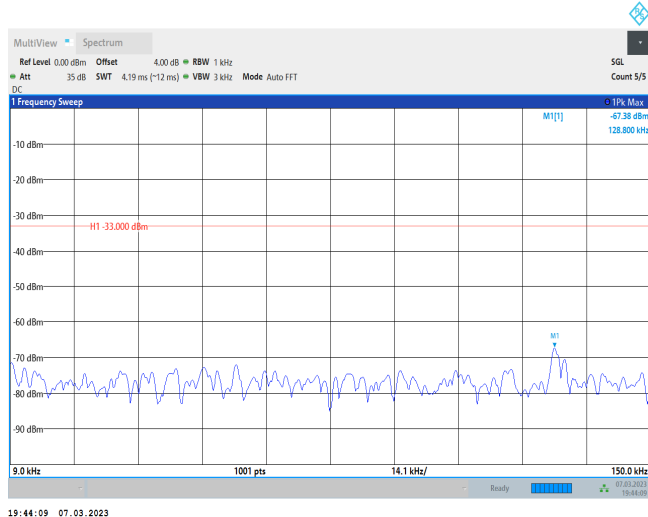


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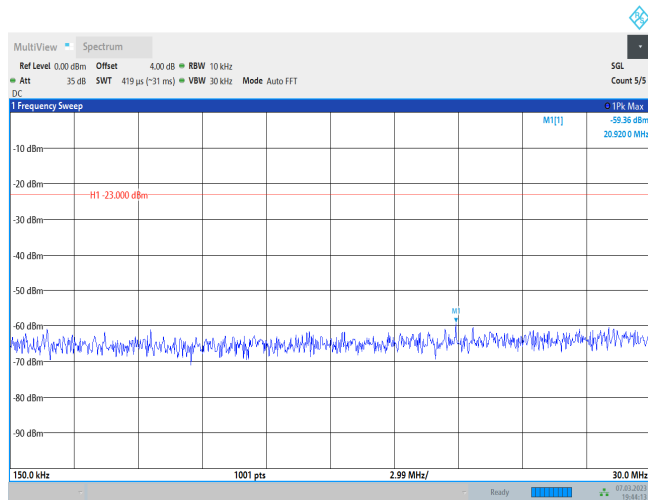
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



19:44:09 07.03.2023

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

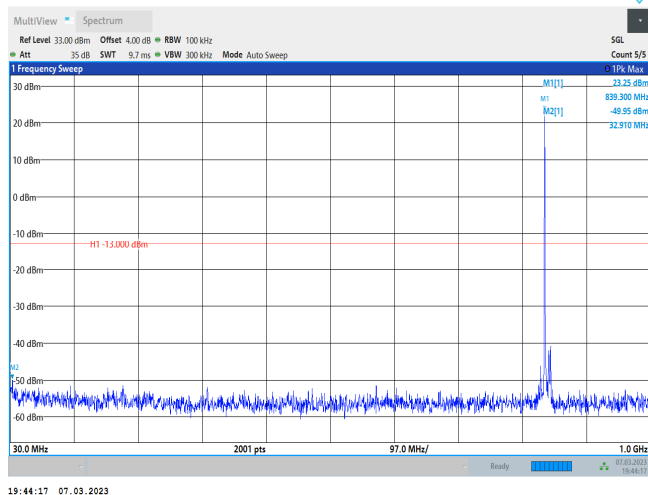


19:44:13 07.03.2023



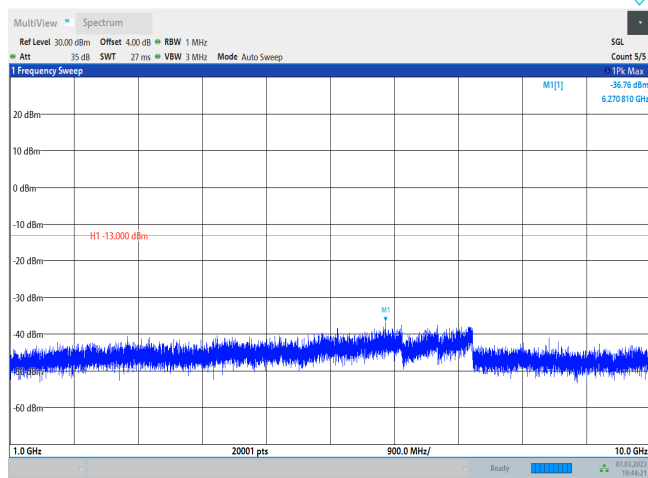
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



19:44:17 07.03.2023

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



19:44:21 07.03.2023



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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	45.30	-48.38	25.58	-72.77	-13.00	59.77	241	16	Horizontal
2	2473.77	43.53	-46.96	27.85	-70.85	-13.00	57.85	185	357	Horizontal
3	3298.36	43.16	-46.11	29.48	-68.73	-13.00	55.73	265	252	Horizontal
4	4122.95	41.73	-45.34	30.80	-68.07	-13.00	55.07	223	235	Horizontal
5	4947.54	42.11	-45.08	32.47	-65.76	-13.00	52.76	366	235	Horizontal
6	5772.13	41.38	-43.52	33.47	-63.93	-13.00	50.93	247	2	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	44.45	-48.38	25.58	-73.62	-13.00	60.62	241	309	Vertical
2	2473.77	44.02	-46.96	27.85	-70.36	-13.00	57.36	152	309	Vertical
3	3298.36	43.88	-46.11	29.48	-68.01	-13.00	55.01	263	45	Vertical
4	4122.95	41.61	-45.34	30.80	-68.19	-13.00	55.19	225	360	Vertical
5	4947.54	42.09	-45.08	32.47	-65.78	-13.00	52.78	284	360	Vertical
6	5772.13	42.02	-43.52	33.47	-63.29	-13.00	50.29	146	357	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	1664.18	45.44	-48.34	25.57	-72.59	-13.00	59.59	206	142	Horizontal
2	2496.27	43.82	-46.77	27.89	-70.32	-13.00	57.32	296	80	Horizontal
3	3328.36	43.19	-46.16	29.47	-68.76	-13.00	55.76	265	64	Horizontal
4	4160.45	41.25	-45.23	30.86	-68.38	-13.00	55.38	254	237	Horizontal
5	4992.54	42.09	-45.02	32.58	-65.61	-13.00	52.61	142	17	Horizontal
6	5824.63	41.82	-43.43	33.64	-63.23	-13.00	50.23	225	0	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	1664.18	45.46	-48.34	25.57	-72.57	-13.00	59.57	232	173	Vertical
2	2496.27	43.78	-46.77	27.89	-70.36	-13.00	57.36	285	249	Vertical
3	3328.36	43.24	-46.16	29.47	-68.71	-13.00	55.71	244	47	Vertical
4	4160.45	42.29	-45.23	30.86	-67.34	-13.00	54.34	255	296	Vertical
5	4992.54	42.45	-45.02	32.58	-65.25	-13.00	52.25	263	280	Vertical
6	5824.63	42.88	-43.43	33.64	-62.17	-13.00	49.17	225	187	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	45.00	-48.30	25.56	-73.00	-13.00	60.00	126	16	Horizontal
2	2518.77	43.58	-46.84	27.96	-70.55	-13.00	57.55	296	234	Horizontal
3	3358.36	43.25	-46.21	29.46	-68.76	-13.00	55.76	284	0	Horizontal
4	4197.95	41.72	-45.12	30.92	-67.74	-13.00	54.74	142	16	Horizontal
5	5037.54	42.60	-44.85	32.60	-64.91	-13.00	51.91	255	1	Horizontal
6	5887.13	41.84	-43.24	33.84	-62.82	-13.00	49.82	286	357	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	44.87	-48.30	25.56	-73.13	-13.00	60.13	285	360	Vertical
2	2518.77	43.83	-46.84	27.96	-70.30	-13.00	57.30	263	360	Vertical
3	3358.36	43.31	-46.21	29.46	-68.70	-13.00	55.70	254	358	Vertical
4	4197.95	42.13	-45.12	30.92	-67.33	-13.00	54.33	142	360	Vertical
5	5037.54	42.35	-44.85	32.60	-65.16	-13.00	52.16	255	111	Vertical
6	5887.13	41.82	-43.24	33.84	-62.84	-13.00	49.84	296	64	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)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	0.70	0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-0.50	-0.000598	±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	-0.30	-0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	1.10	0.001315	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-2.70	-0.003228	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-3.50	-0.004184	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-1.90	-0.002271	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	1.30	0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-2.50	-0.002989	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	1.40	0.001674	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-3.00	-0.003586	±2.5	PASS

---End of Attachment---



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