

Report No.: SEWM2304000115RG04

Rev.: 01

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Appendix B.4

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	24.49	18.77	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.62	18.90	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.52	18.80	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	23.61	17.89	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	24.48	18.76	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.59	18.87	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	24.47	18.75	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.57	17.85	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	24.35	18.63	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	24.46	18.74	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	24.32	18.60	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	23.43	17.71	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.74	18.02	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.85	18.13	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.64	17.92	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.68	16.96	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.74	18.02	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.80	18.08	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.78	18.06	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.67	16.95	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.64	17.92	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.58	17.86	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.54	17.82	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.50	16.78	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	22.62	16.90	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	22.75	17.03	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	22.63	16.91	38.45	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	21.60	15.88	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	22.63	16.91	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	22.76	17.04	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.65	16.93	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	21.56	15.84	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	22.48	16.76	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	22.59	16.87	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	22.47	16.75	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	21.43	15.71	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.56	18.84	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.55	18.83	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.58	18.86	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.56	17.84	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.55	18.83	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.49	18.77	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.52	18.80	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.53	17.81	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.42	18.70	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	24.37	18.65	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	24.35	18.63	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.43	17.71	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.82	18.10	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.85	18.13	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.89	18.17	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.58	16.86	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.73	18.01	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.78	18.06	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.73	18.01	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.53	16.81	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.71	17.99	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.62	17.90	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.51	17.79	38.45	PASS



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Band5	3MHz	16QAM	20635	15RB#0	22.39	16.67	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	22.69	16.97	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	22.73	17.01	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	22.72	17.00	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	21.58	15.86	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	22.60	16.88	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	22.63	16.91	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	22.60	16.88	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	21.54	15.82	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	22.59	16.87	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	22.49	16.77	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	22.48	16.76	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	21.42	15.70	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	24.59	18.87	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.69	18.97	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	24.53	18.81	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.58	17.86	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.54	18.82	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.66	18.94	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	24.47	18.75	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.55	17.83	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	24.41	18.69	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.59	18.87	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	24.32	18.60	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.44	17.72	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.84	18.12	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.81	18.09	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.70	17.98	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.60	16.88	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.77	18.05	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.89	18.17	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.64	17.92	38.45	PASS



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Band5	5MHz	16QAM	20525	25RB#0	22.54	16.82	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.63	17.91	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.79	18.07	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.49	17.77	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.42	16.70	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	22.66	16.94	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	22.89	17.17	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	22.62	16.90	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	21.61	15.89	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	22.63	16.91	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	22.77	17.05	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	22.64	16.92	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	21.56	15.84	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	22.55	16.83	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	22.67	16.95	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	22.42	16.70	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	21.46	15.74	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.57	18.85	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.67	18.95	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.49	18.77	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.58	17.86	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.58	18.86	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.58	18.86	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.47	18.75	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.55	17.83	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.46	18.74	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.54	18.82	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	24.35	18.63	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.46	17.74	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.84	18.12	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.89	18.17	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.76	18.04	38.45	PASS



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Band5	10MHz	16QAM	20450	50RB#0	22.57	16.85	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.77	18.05	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.76	18.04	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.66	17.94	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.55	16.83	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.63	17.91	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.71	17.99	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.56	17.84	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.44	16.72	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	22.63	16.91	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	22.79	17.07	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	22.54	16.82	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	21.59	15.87	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	22.67	16.95	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	22.67	16.95	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	22.61	16.89	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	21.58	15.86	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	22.59	16.87	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	22.68	16.96	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	22.40	16.68	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	21.48	15.76	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	5.02	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.22	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.00	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.92	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.04	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.80	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	5.92	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.08	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	5.90	13	PASS

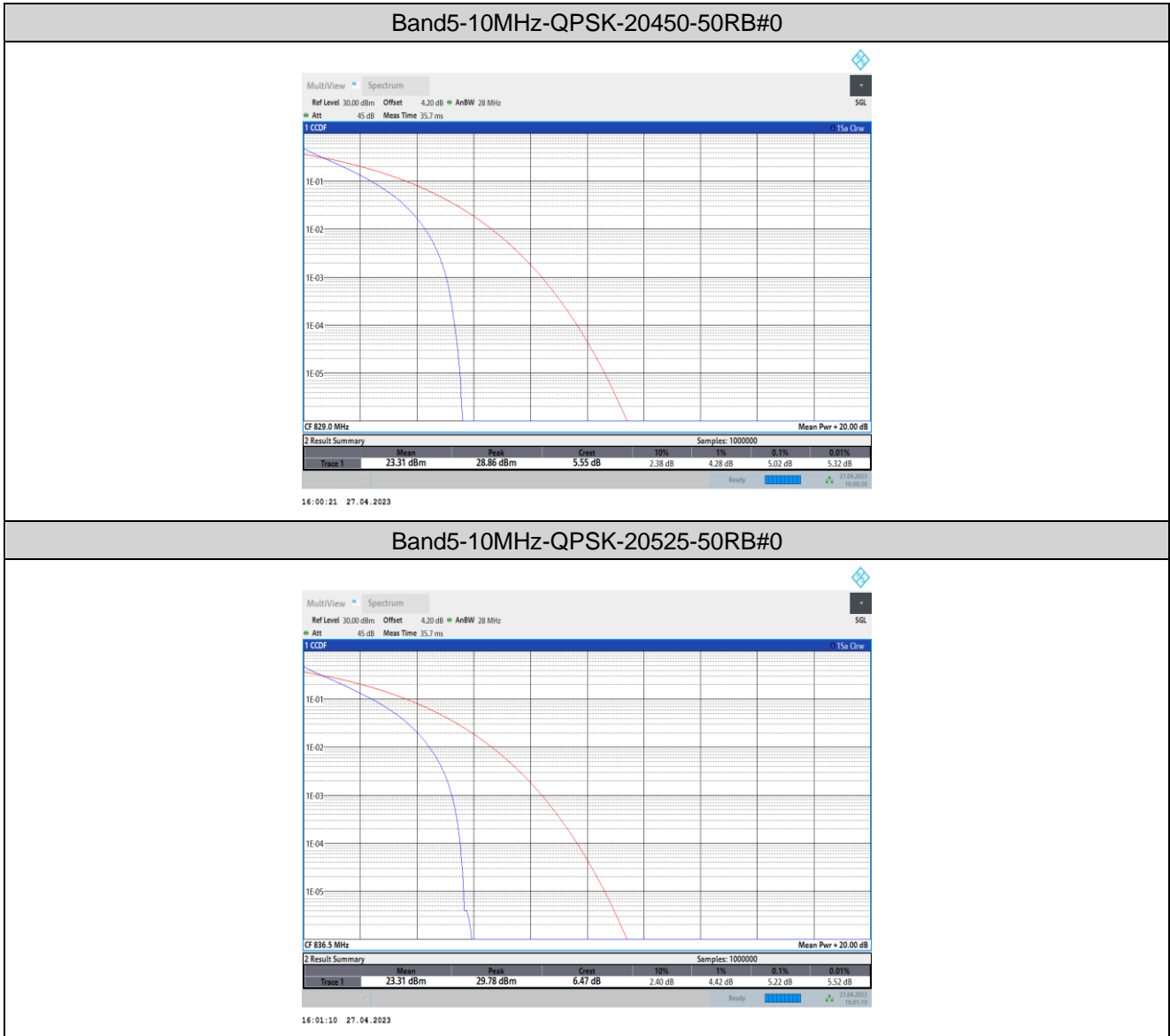


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Test Graphs

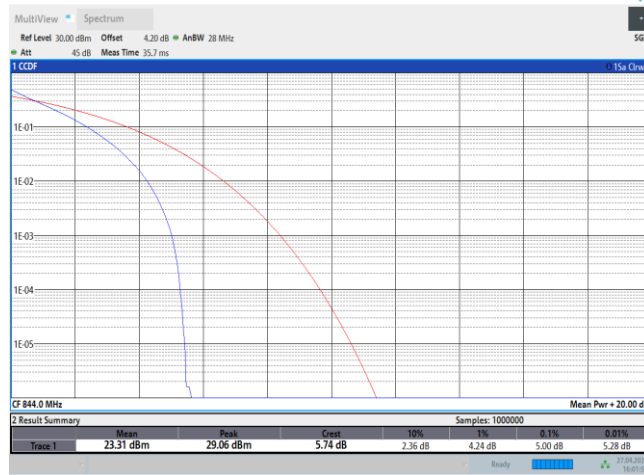


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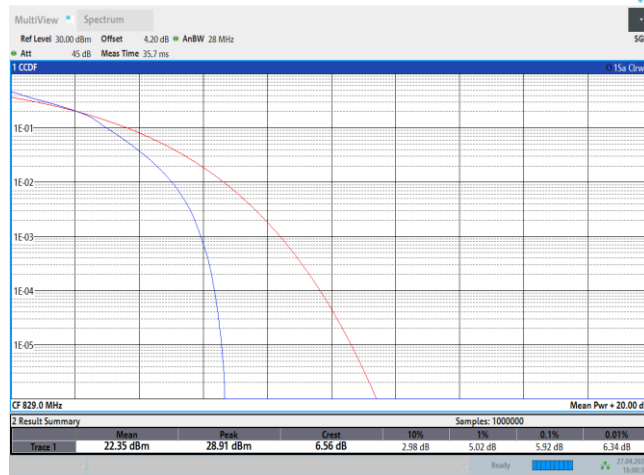
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Band5-10MHz-QPSK-20600-50RB#0



16:02:00 27.04.2023

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



16:00:37 27.04.2023

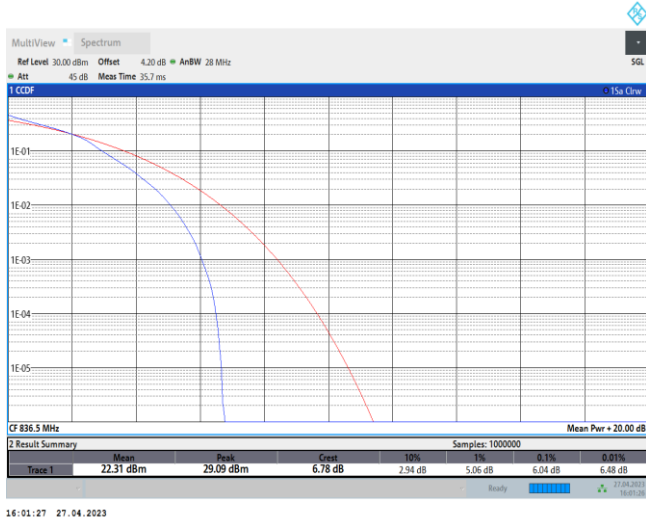


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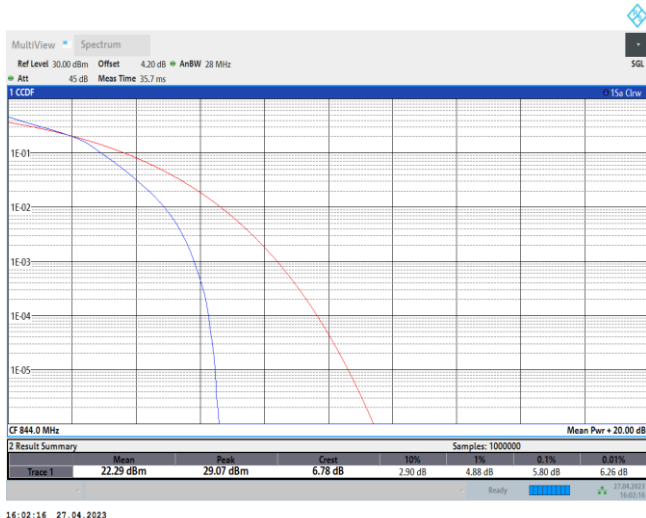
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Band5-10MHz-16QAM-20525-50RB#0



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

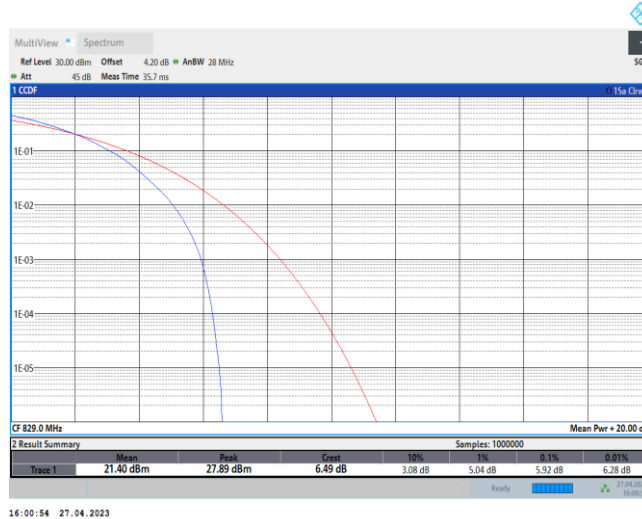


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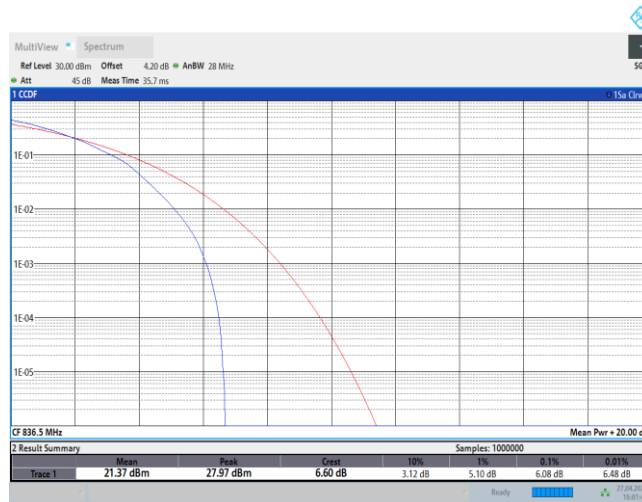
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Band5-10MHz-64QAM-20450-50RB#0



16:00:54 27.04.2023

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



16:01:43 27.04.2023

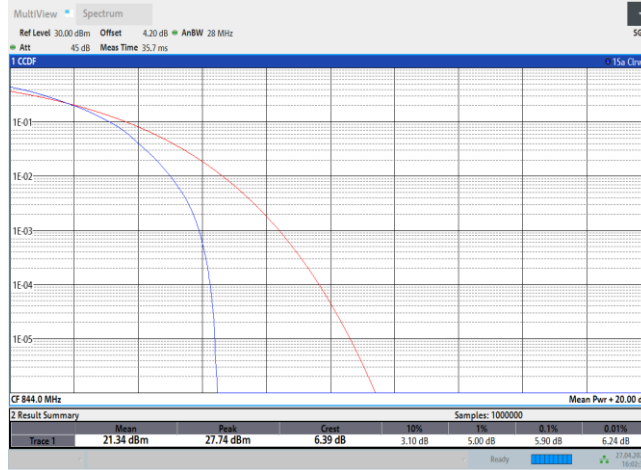


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Band5-10MHz-64QAM-20600-50RB#0



16:02:32 27.04.2023



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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



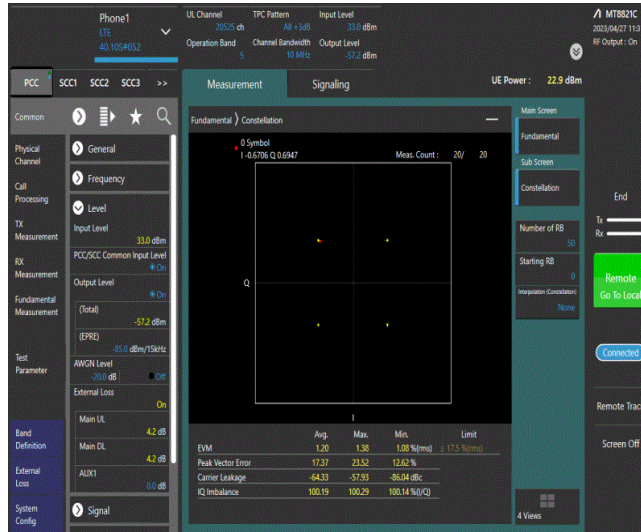
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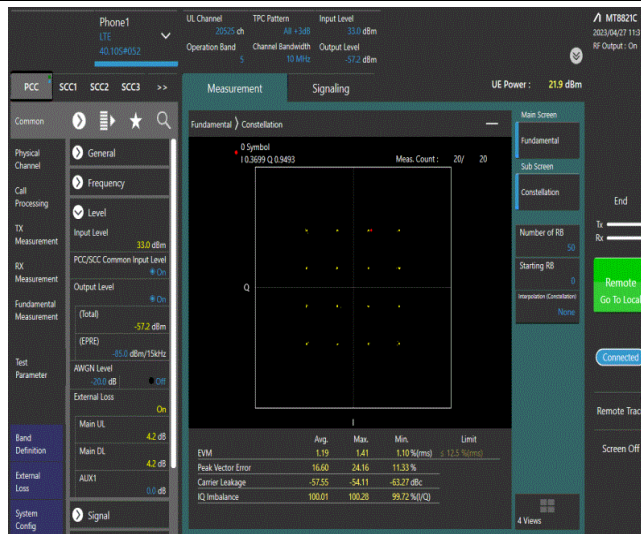
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Test Graphs

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

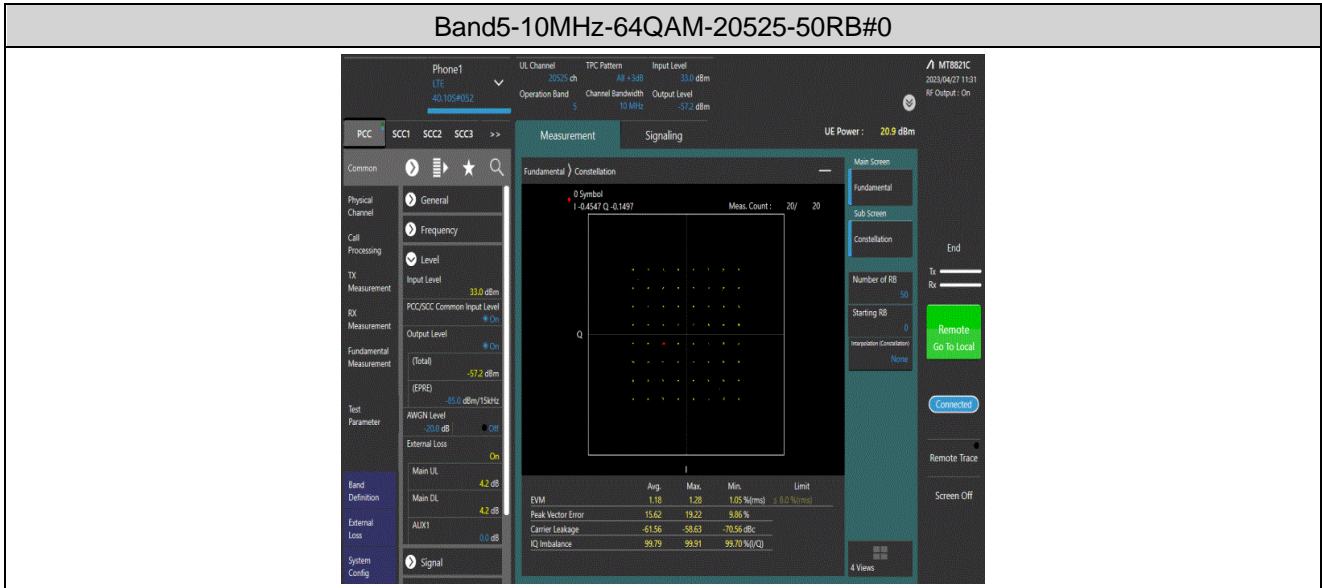


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.087	1.28	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.088	1.26	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.085	1.27	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.097	1.31	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.102	1.28	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.097	1.29	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.094	1.29	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.087	1.26	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.091	1.29	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.685	2.89	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.683	2.89	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.678	2.90	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.687	2.92	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.688	2.90	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.689	2.90	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.681	2.88	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.690	2.88	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.691	2.90	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.464	4.72	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.478	4.78	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.464	4.82	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.459	4.77	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.464	4.83	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.464	4.97	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.468	4.79	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.463	4.79	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.477	4.78	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.926	9.62	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.909	9.52	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.931	9.48	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.923	9.52	PASS



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Report No.: SEWM2304000115RG04

Rev.: 01

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Band5	10MHz	16QAM	20525	50RB#0	8.952	9.42	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.940	9.54	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.939	9.52	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.922	9.48	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.943	9.42	PASS



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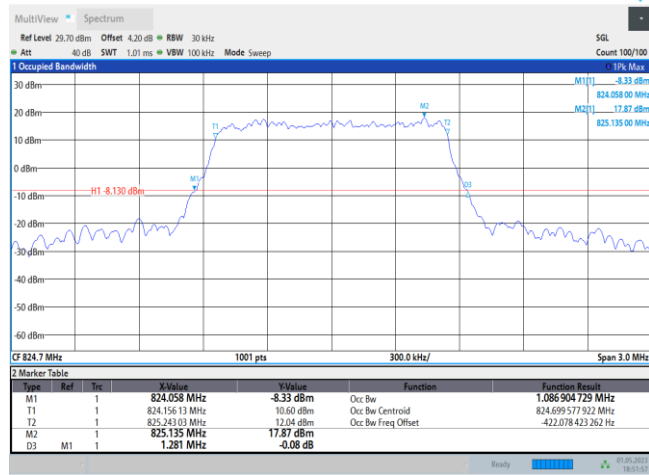
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Test Graphs

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



18:51:58 01.05.2023

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



18:52:38 01.05.2023



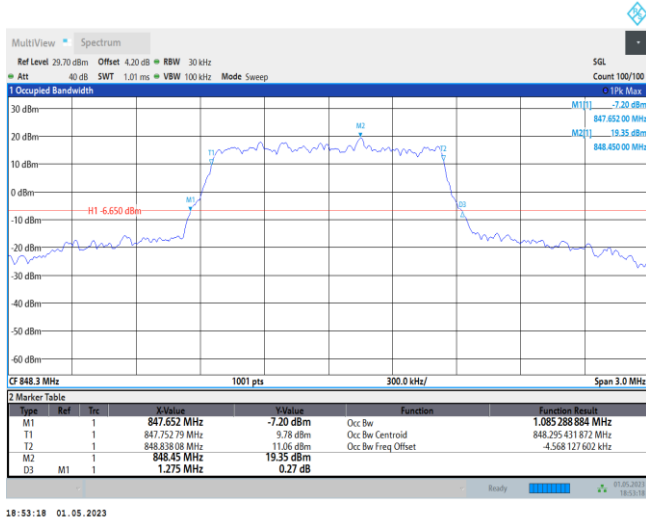
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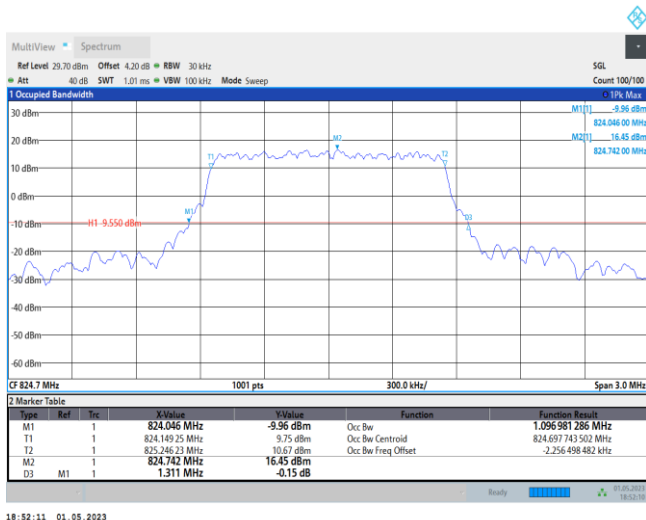
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Band5-1.4MHz-QPSK-20643-6RB#0



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

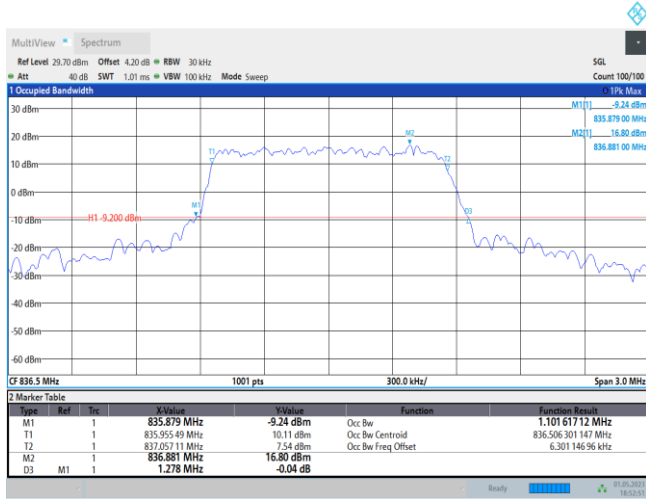


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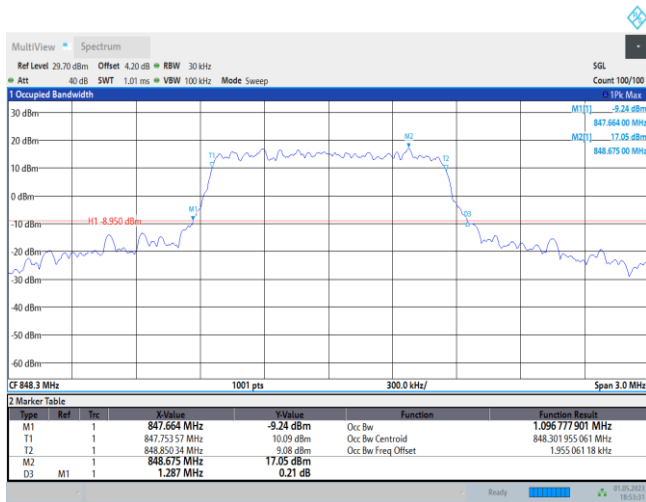
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Band5-1.4MHz-16QAM-20525-6RB#0



18:52:51 01.05.2023

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



18:53:31 01.05.2023

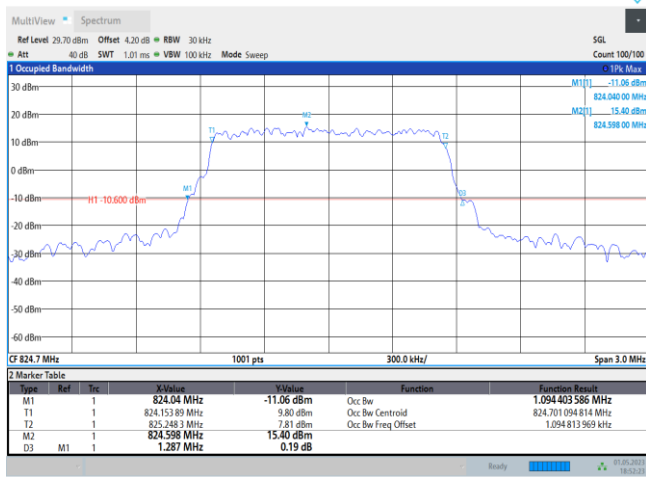


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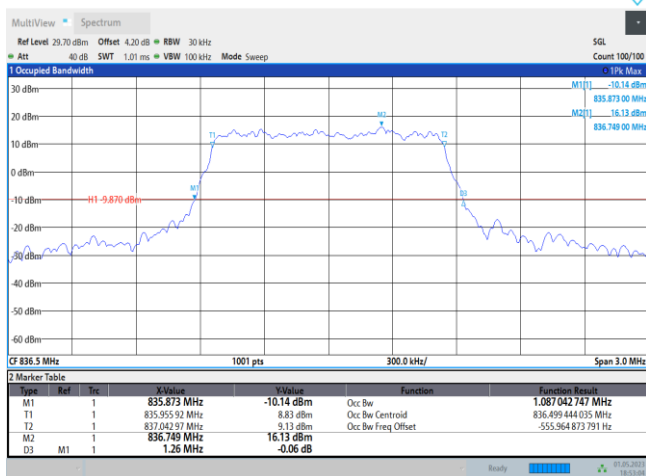
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Band5-1.4MHz-64QAM-20407-6RB#0



18:52:24 01.05.2023

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



18:53:05 01.05.2023

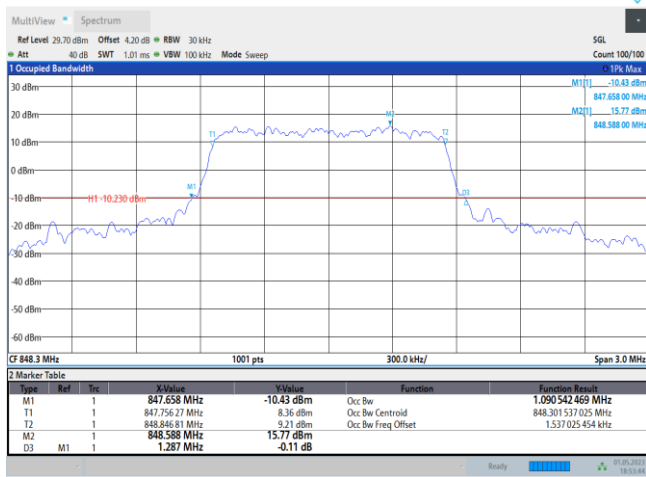


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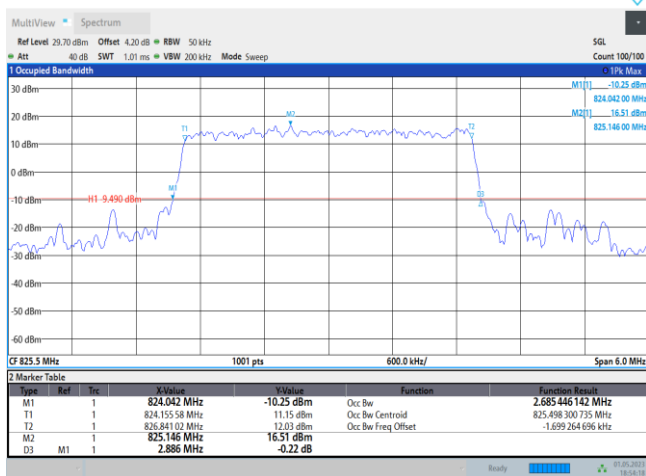
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Band5-1.4MHz-64QAM-20643-6RB#0



18:53:45 01.05.2023

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



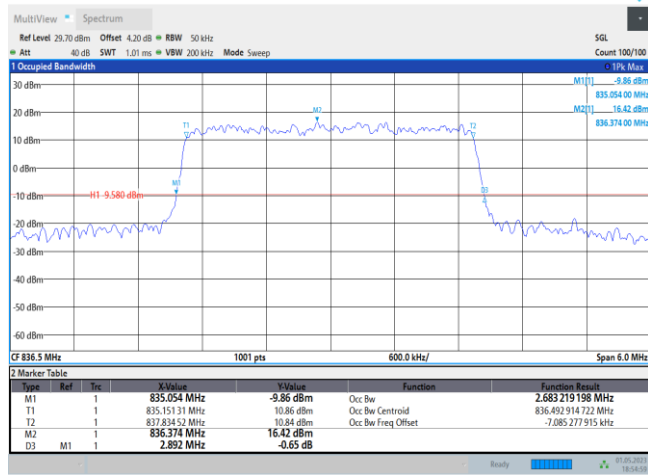
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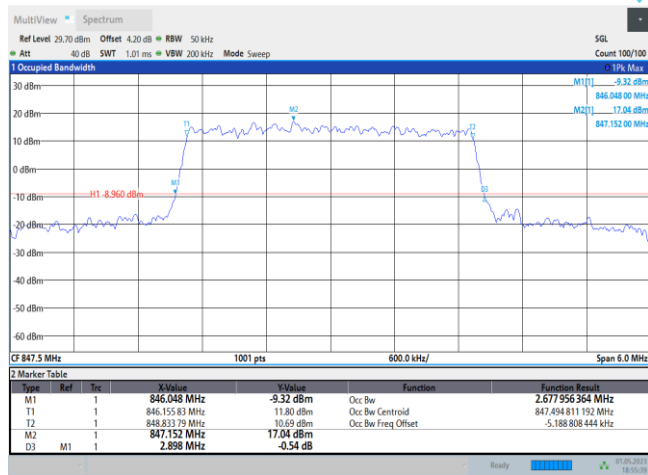
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Band5-3MHz-QPSK-20525-15RB#0



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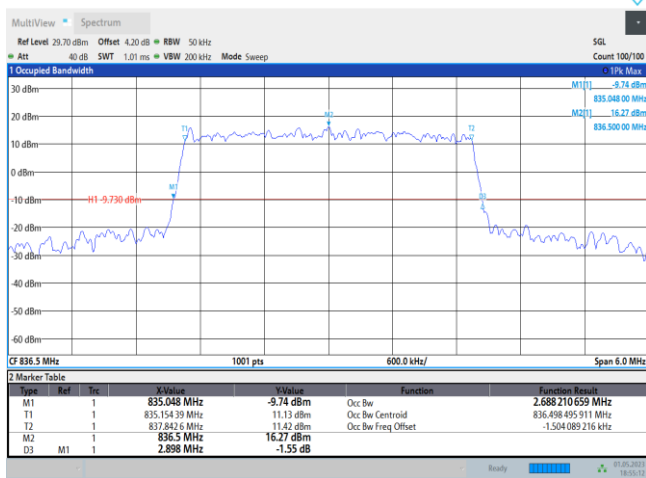
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Band5-3MHz-16QAM-20415-15RB#0



18:54:32 01.05.2023

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



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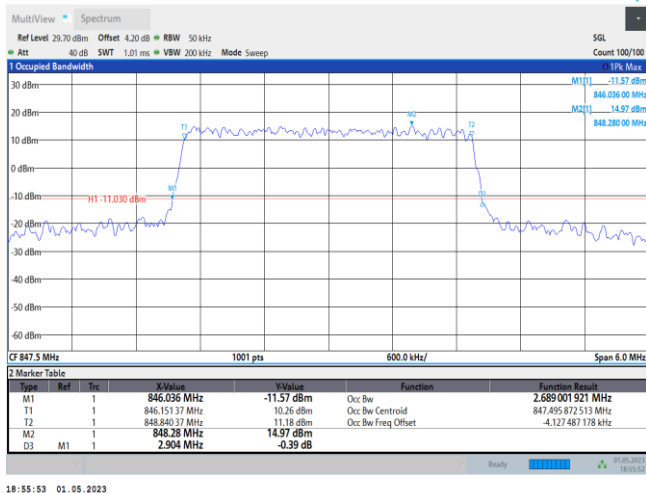


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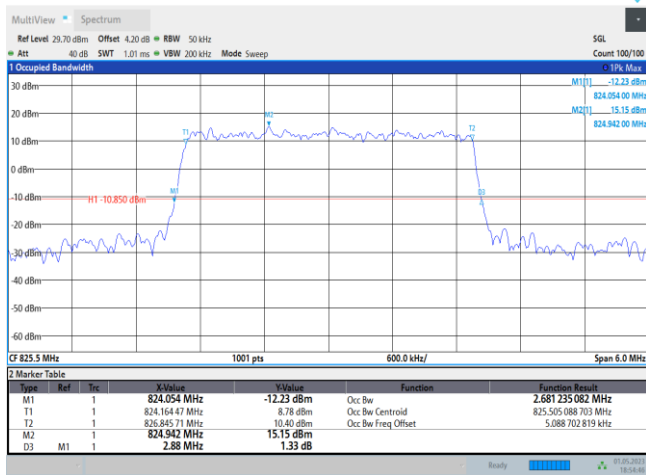
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Band5-3MHz-16QAM-20635-15RB#0



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



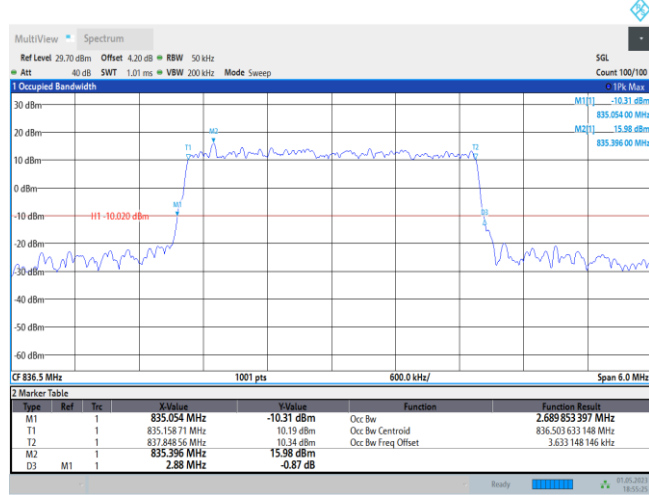
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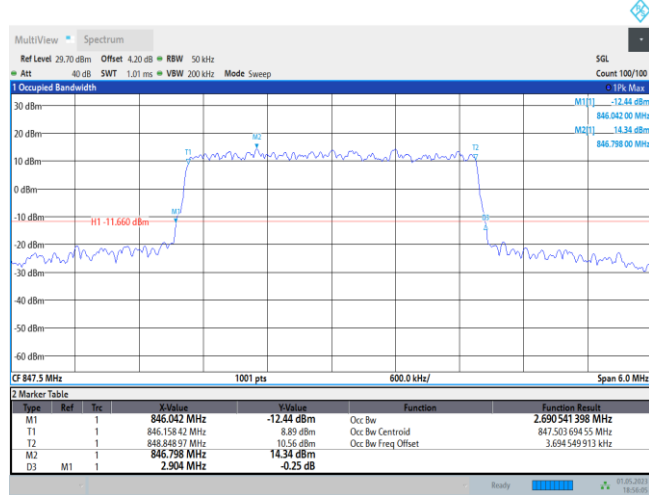
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Band5-3MHz-64QAM-20525-15RB#0



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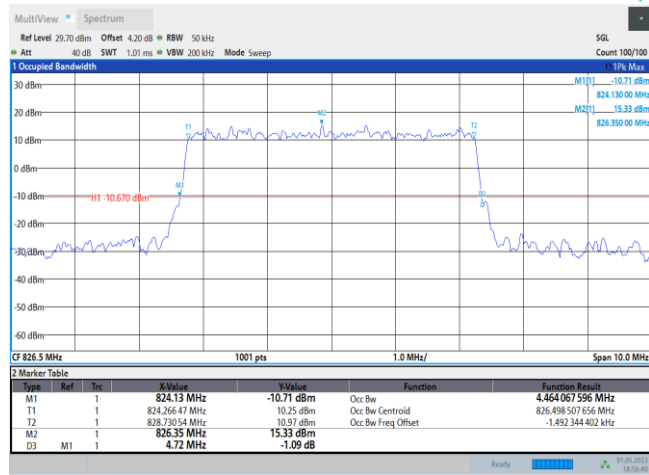


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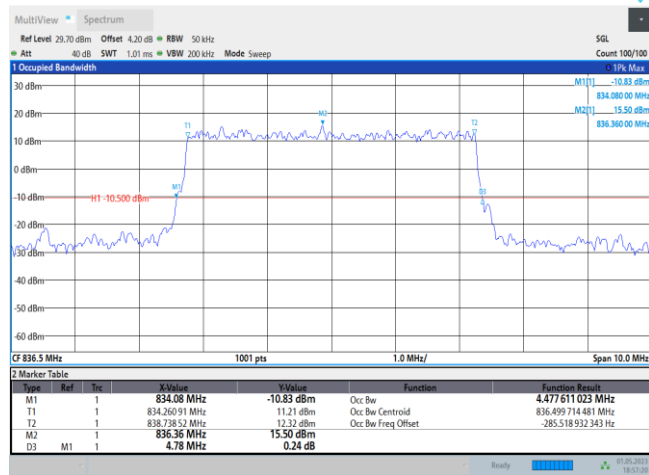
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18:57:21 01.05.2023



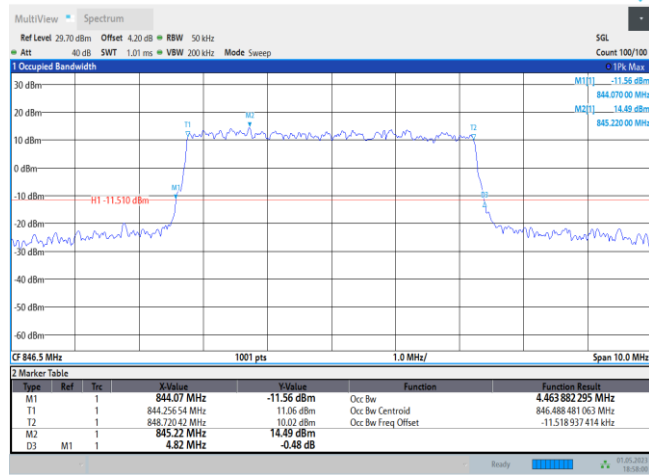
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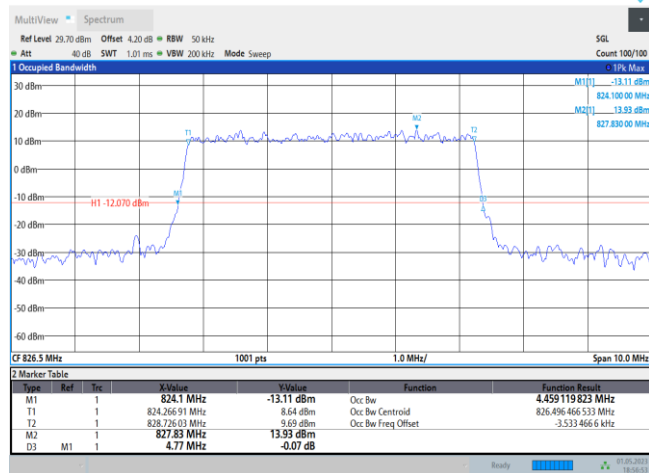
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Band5-5MHz-16QAM-20425-25RB#0



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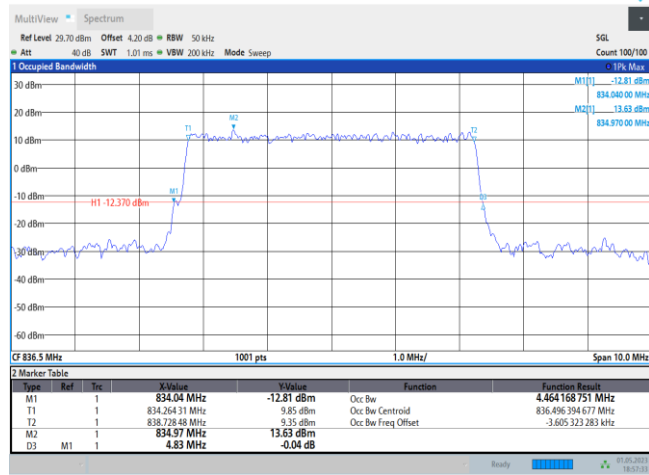


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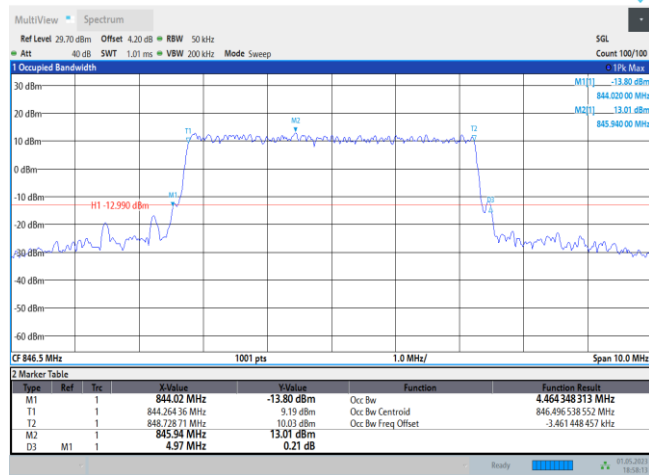
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Band5-5MHz-16QAM-20625-25RB#0



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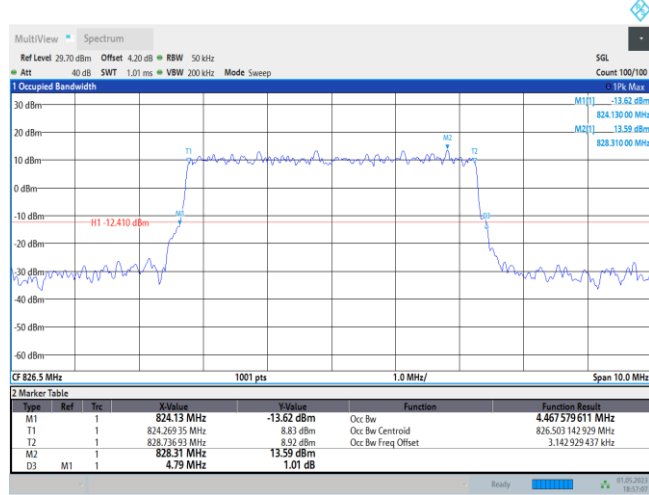
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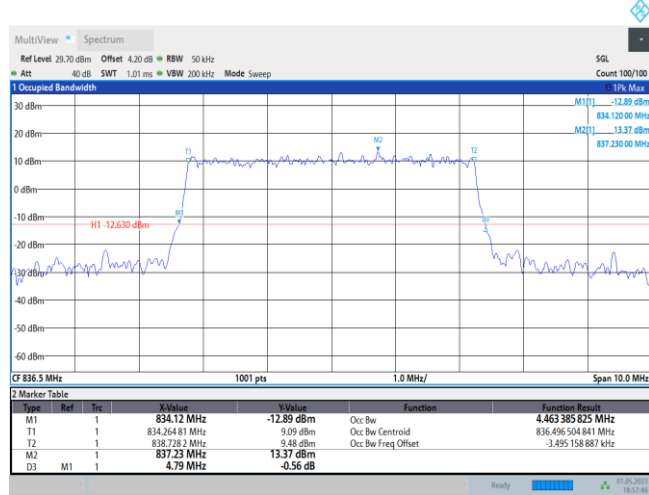
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18:57:47 01.05.2023



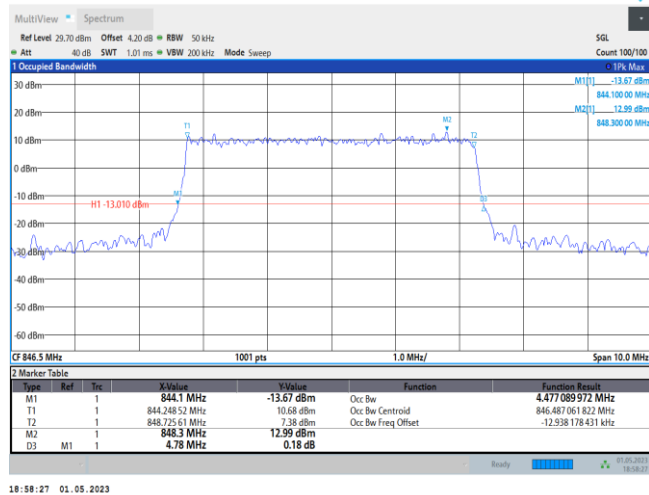
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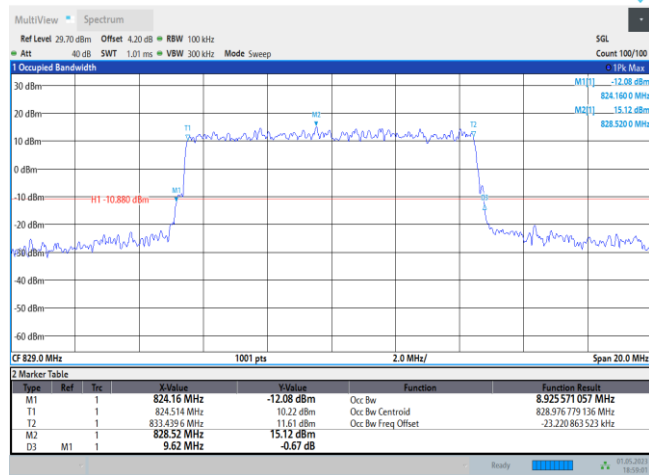
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Band5-5MHz-64QAM-20625-25RB#0



18:58:27 01.05.2023

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



18:59:02 01.05.2023

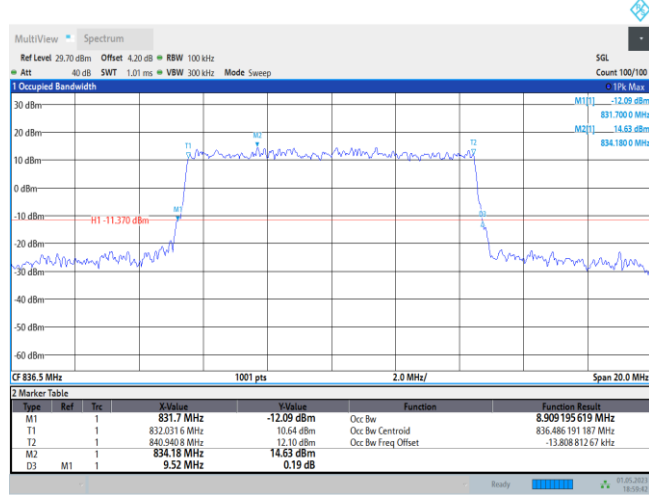


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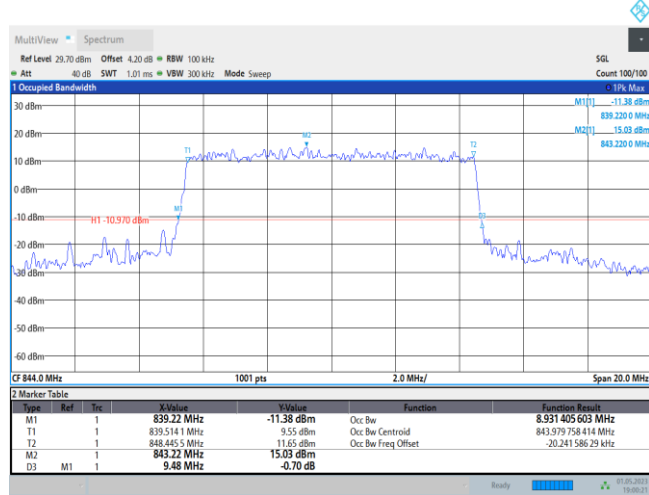
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Band5-10MHz-QPSK-20525-50RB#0



18:59:42 01.05.2023

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



19:00:22 01.05.2023



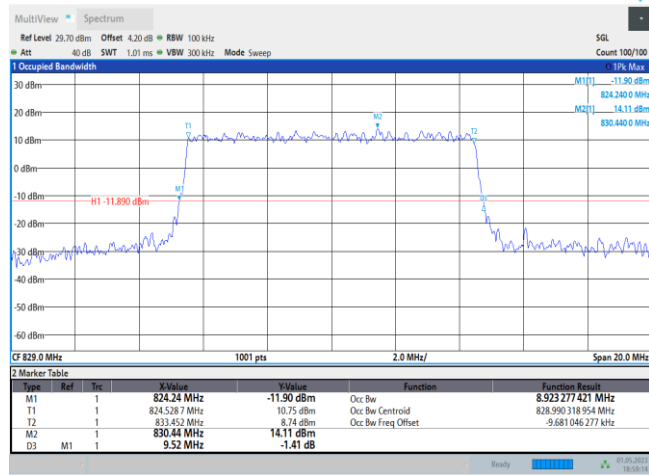
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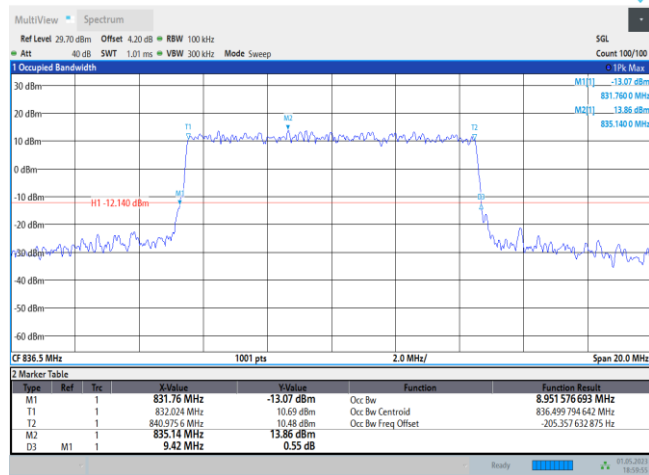
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Band5-10MHz-16QAM-20450-50RB#0



18:59:15 01.05.2023

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



18:59:55 01.05.2023

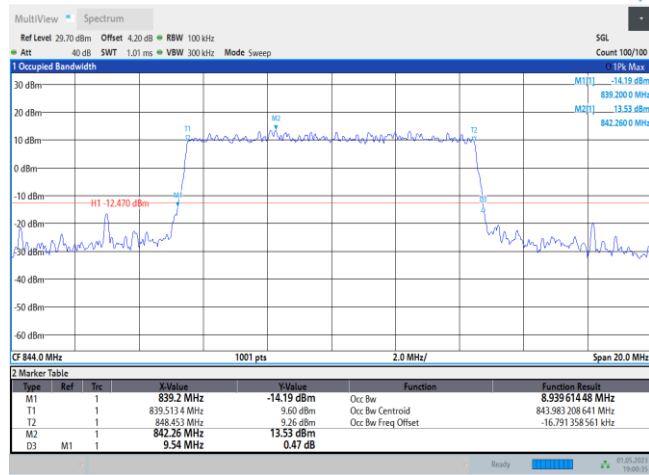


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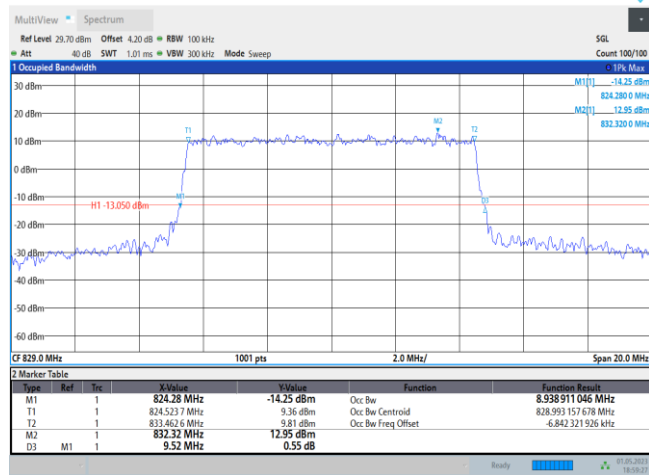
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Band5-10MHz-16QAM-20600-50RB#0



19:00:35 01.05.2023

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



18:59:28 01.05.2023

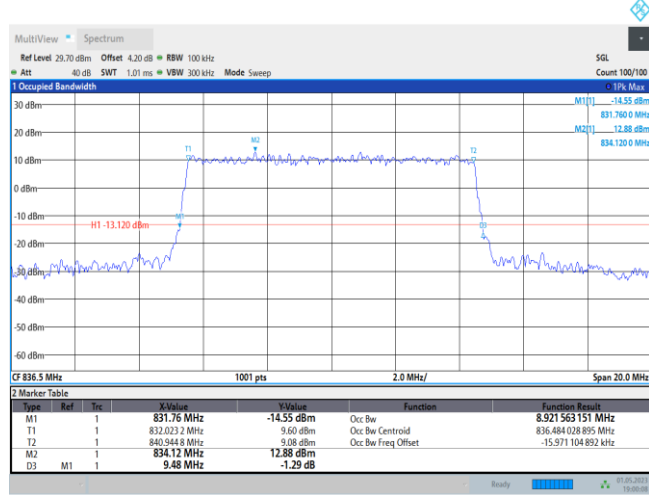


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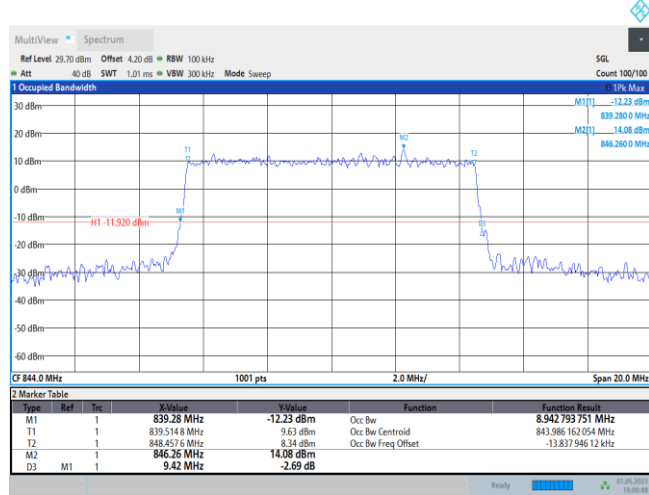
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Band5-10MHz-64QAM-20525-50RB#0



19:00:08 01.05.2023

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



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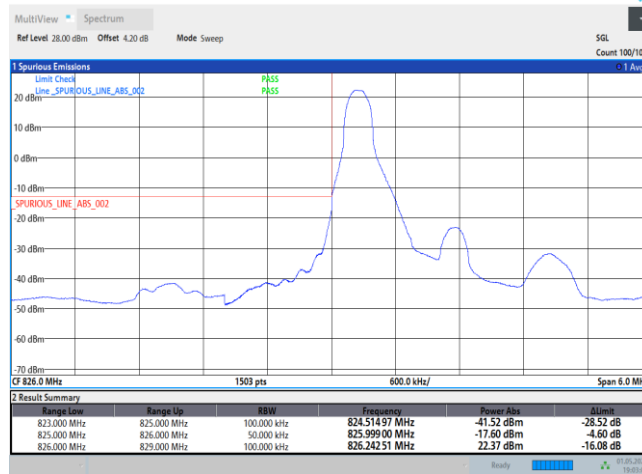
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Band Edge

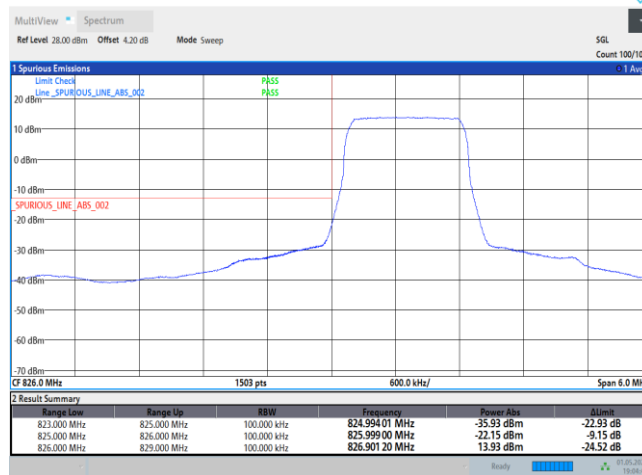
Test Graphs

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



19:03:04 01.05.2023

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



19:04:49 01.05.2023



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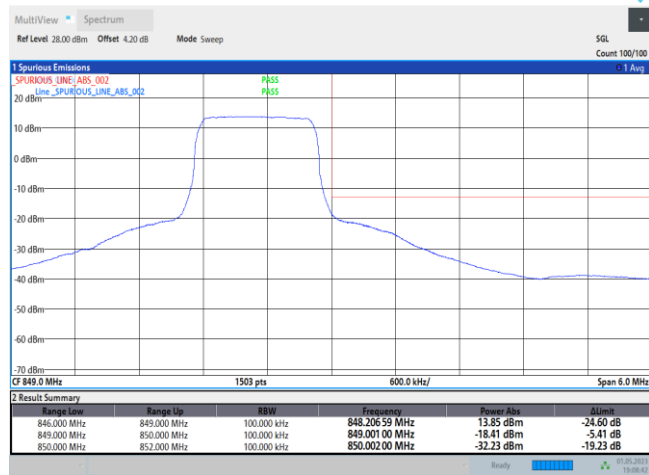
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Band5-1.4MHz-QPSK-20643-1RB#5



19:06:58 01.05.2023

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19:08:42 01.05.2023

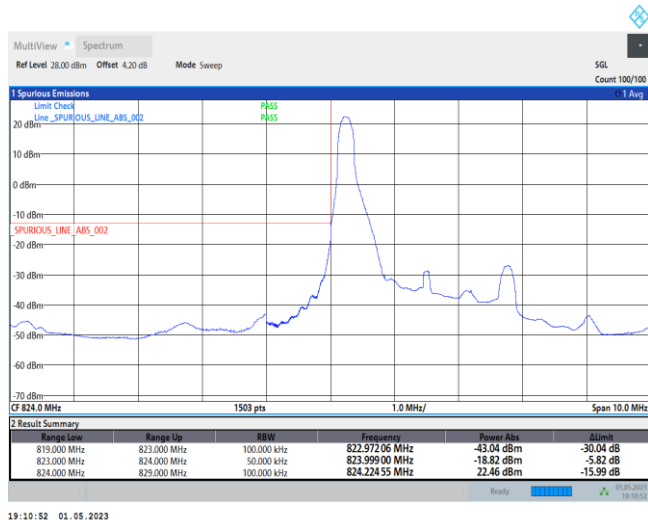


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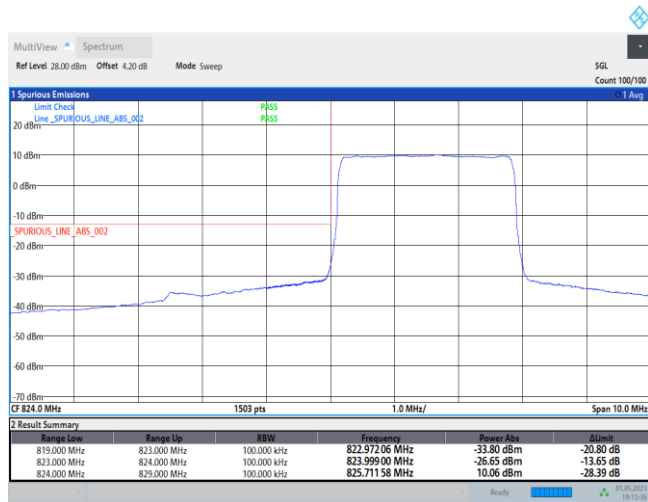
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Band5-3MHz-QPSK-20415-1RB#0



19:10:52 01.05.2023

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



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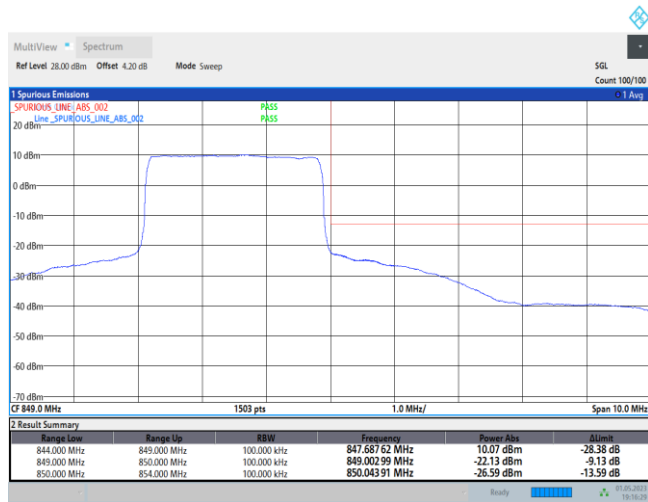
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Band5-3MHz-QPSK-20635-1RB#14



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



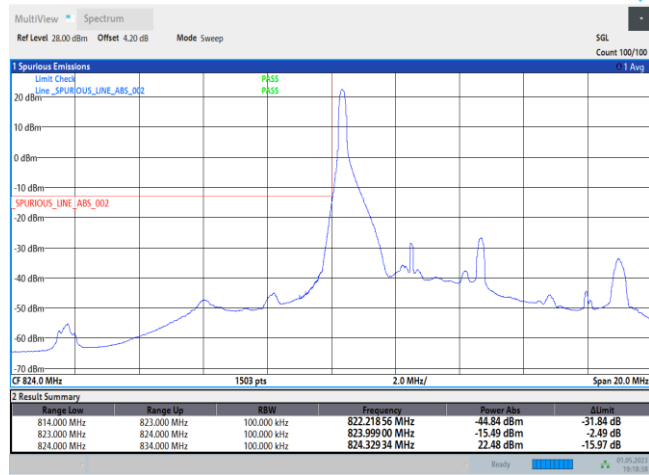
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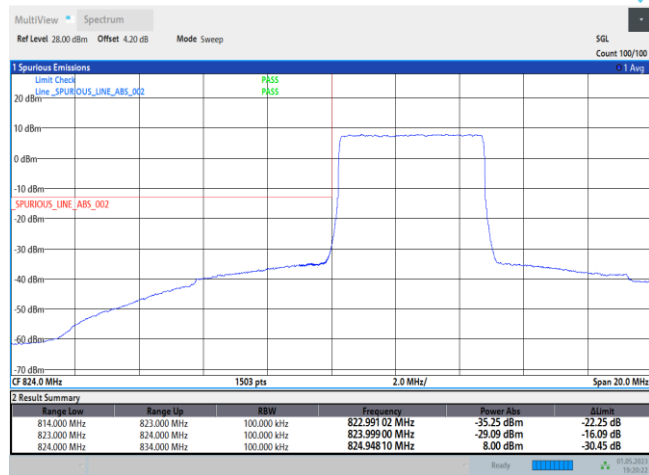
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Band5-5MHz-QPSK-20425-1RB#0



19:18:39 01.05.2023

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



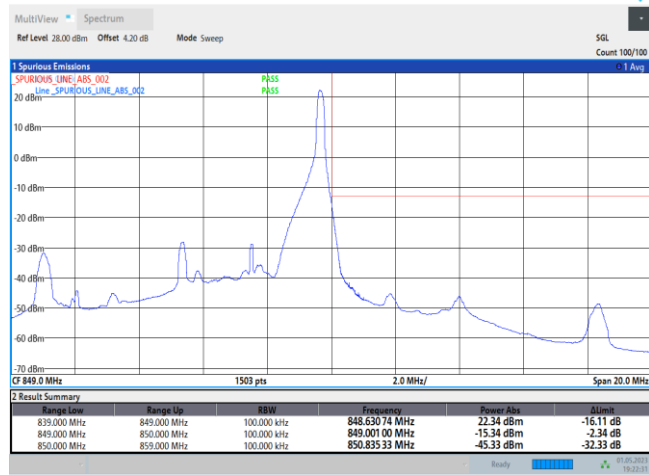
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Band5-5MHz-QPSK-20625-1RB#24



19:22:32 01.05.2023

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



19:24:17 01.05.2023

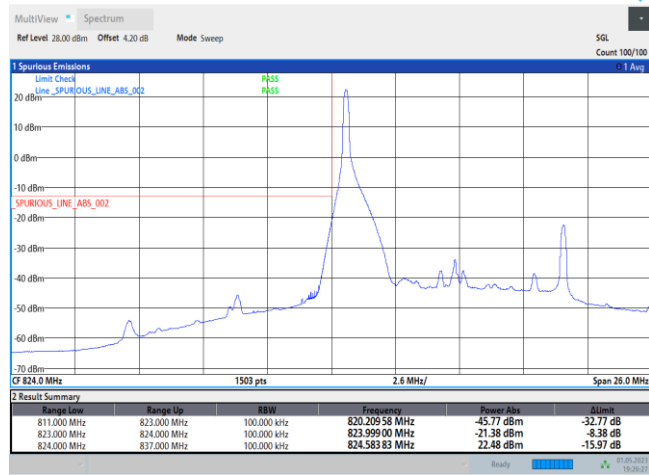


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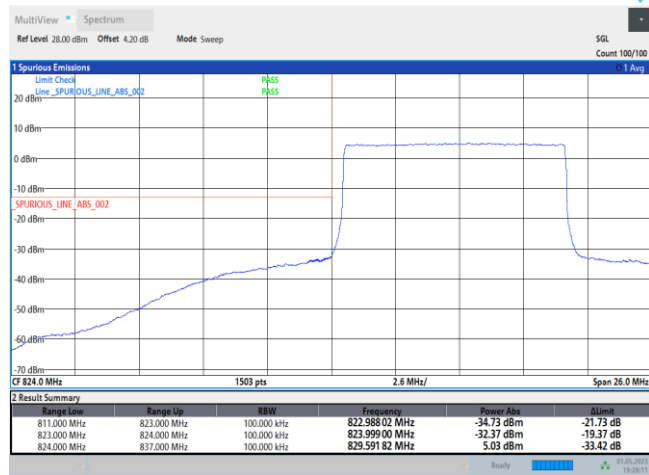
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Band5-10MHz-QPSK-20450-1RB#0



19:26:27 01.05.2023

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



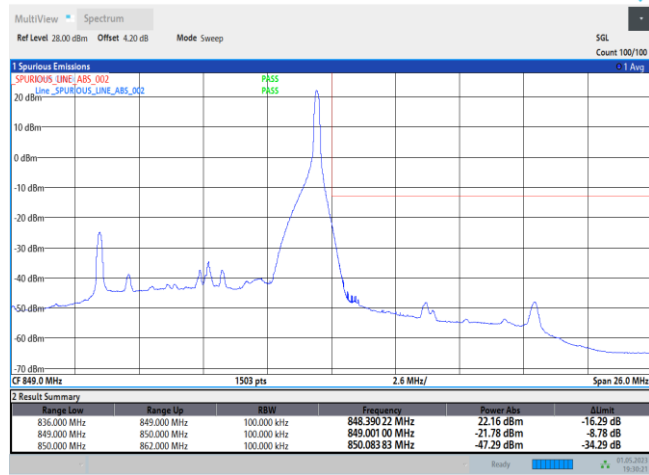
19:28:12 01.05.2023



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



19:30:21 01.05.2023

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



19:32:06 01.05.2023



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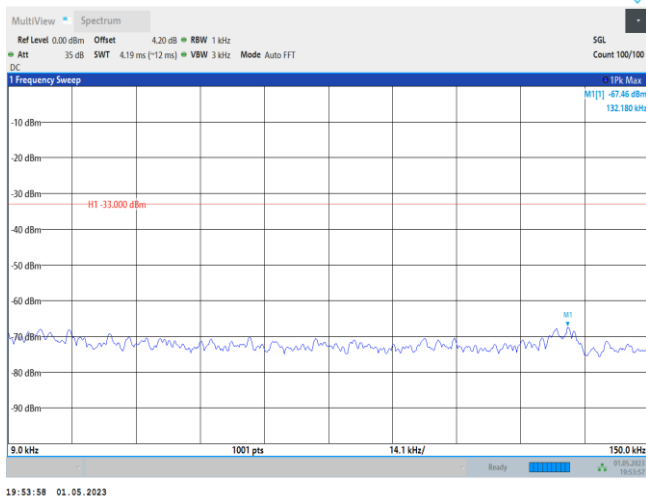
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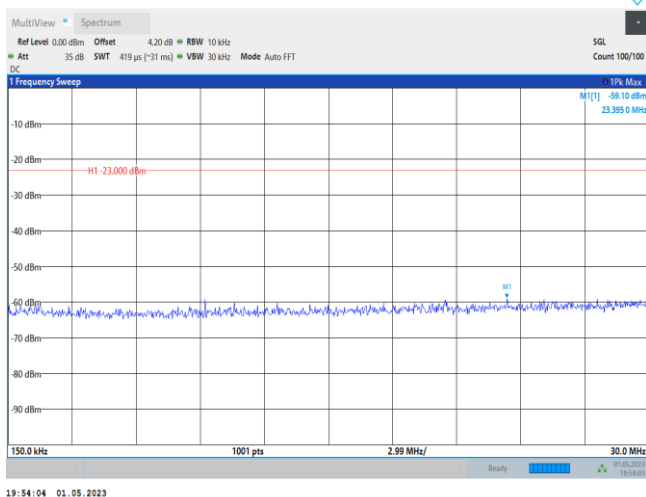
Conducted Spurious Emission

Test Graphs

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



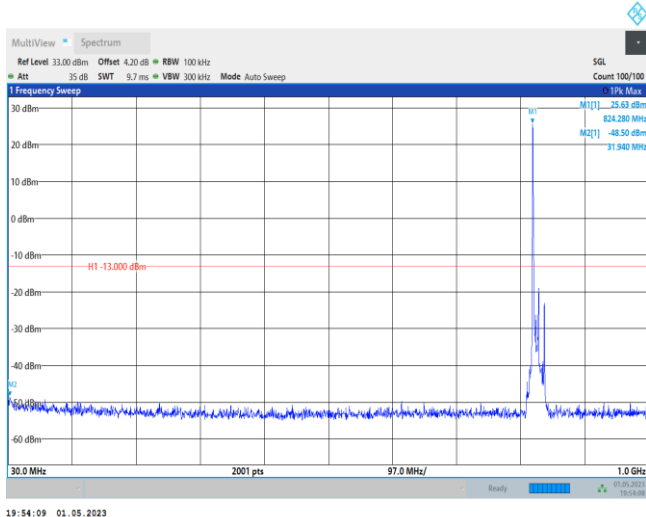
Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz



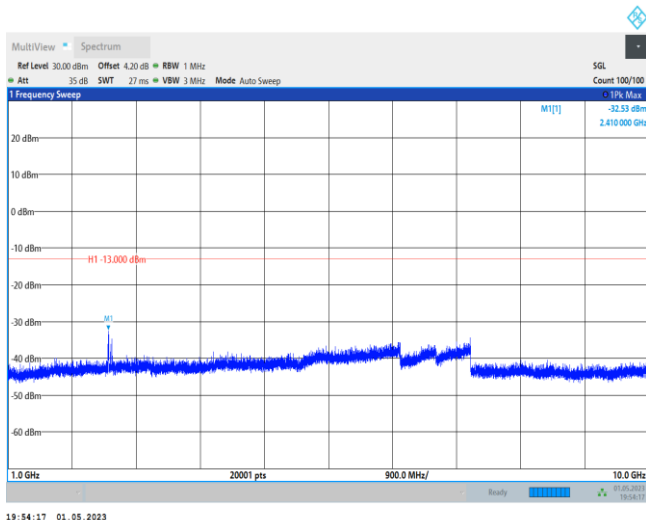
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



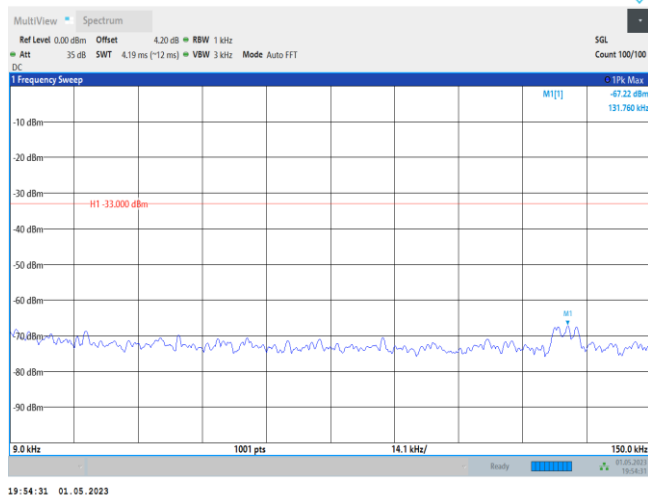
Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



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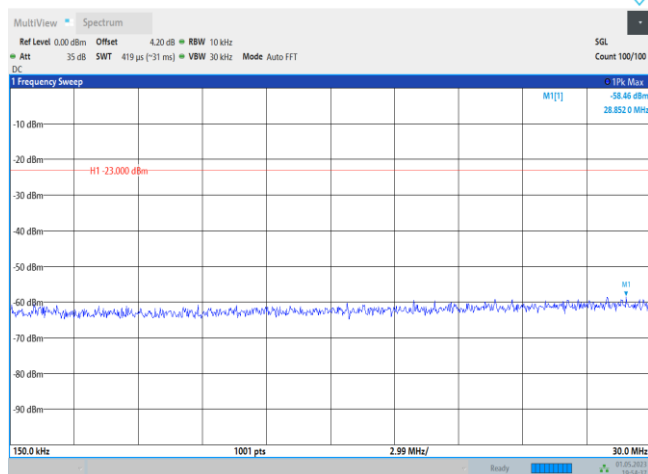
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



19:54:31 01.05.2023

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



19:54:37 01.05.2023

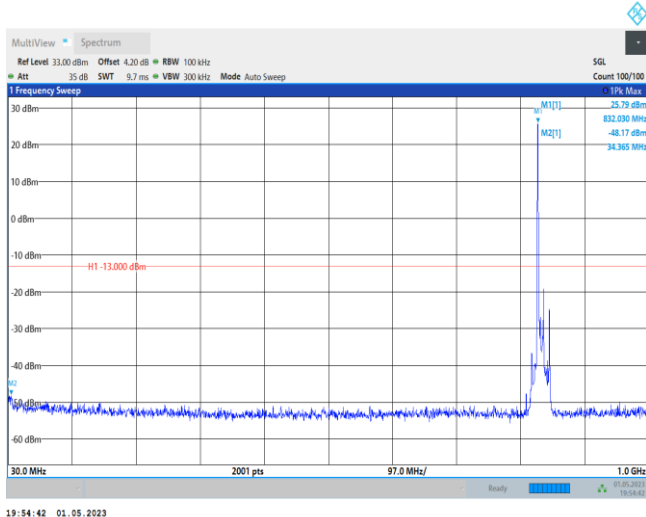


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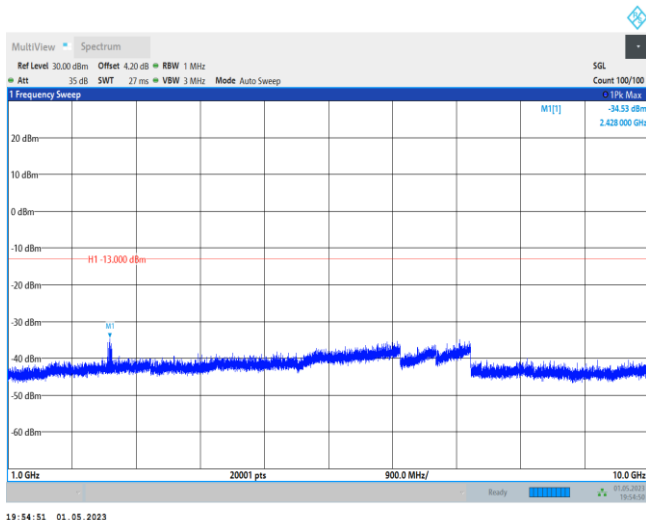
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



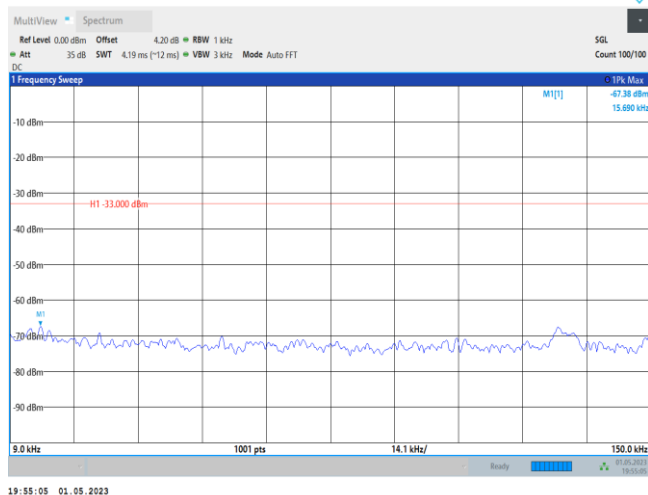
Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



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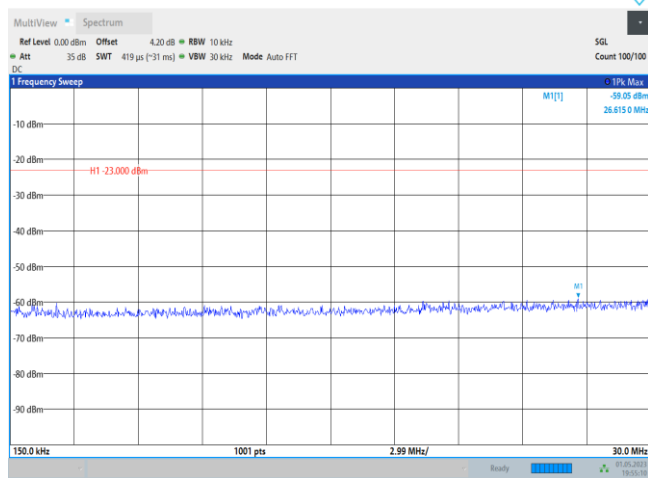
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



19:55:05 01.05.2023

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



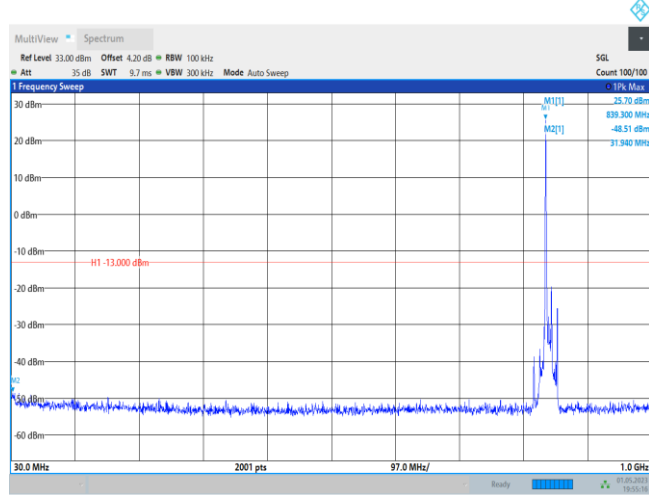
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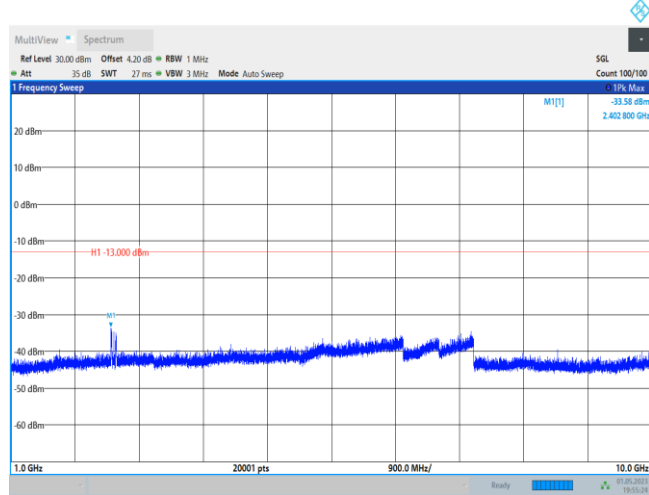
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



19:55:16 01.05.2023

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



19:55:24 01.05.2023



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Field Strength of Spurious Radiation

Test Band = LTE B5_10MHz _ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1429	65.46	-48.22	25.37	-52.65	-13.00	39.65	188	230	Horizontal
2	2473.7143	60.47	-47.32	27.68	-54.42	-13.00	41.42	213	203	Horizontal
3	3298.2857	51.47	-46.67	29.56	-60.91	-13.00	47.91	173	216	Horizontal
4	4122.9500	41.22	-45.91	30.99	-68.97	-13.00	55.97	196	43	Horizontal
5	4947.5400	42.28	-45.69	32.73	-65.94	-13.00	52.94	147	282	Horizontal
6	5772.1300	40.41	-44.64	33.65	-65.84	-13.00	52.84	214	203	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	1649.1429	58.20	-48.22	25.37	-59.91	-13.00	46.91	122	51	Vertical
2	2473.7143	55.69	-47.32	27.68	-59.20	-13.00	46.20	132	78	Vertical
3	3298.3600	44.40	-46.68	29.56	-67.98	-13.00	54.98	157	104	Vertical
4	4122.9500	41.51	-45.91	30.99	-68.68	-13.00	55.68	201	3	Vertical
5	4947.5400	41.93	-45.69	32.73	-66.29	-13.00	53.29	159	130	Vertical
6	5772.1300	40.16	-44.64	33.65	-66.09	-13.00	53.09	235	91	Vertical



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Test Band = LTE B5_10MHz _ TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664	62.72	-48.20	25.38	-55.37	-13.00	42.37	182	231	Horizontal
2	2496.2700	62.22	-47.28	27.76	-52.56	-13.00	39.56	196	244	Horizontal
3	3328	66.14	-46.64	29.52	-46.24	-13.00	33.24	124	231	Horizontal
4	4160.4500	41.83	-45.94	31.04	-68.33	-13.00	55.33	163	310	Horizontal
5	4992.5400	41.64	-45.79	32.86	-66.55	-13.00	53.55	155	283	Horizontal
6	5824.6300	41.01	-44.74	33.80	-65.19	-13.00	52.19	213	5	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	56.35	-48.20	25.38	-61.74	-13.00	48.74	132	341	Vertical
2	2496.2700	54.36	-47.28	27.76	-60.42	-13.00	47.42	154	130	Vertical
3	3328.3600	55.78	-46.64	29.52	-56.60	-13.00	43.60	188	66	Vertical
4	4160.4500	42.31	-45.94	31.04	-67.85	-13.00	54.85	178	145	Vertical
5	4992.5400	41.64	-45.79	32.86	-66.55	-13.00	53.55	195	12	Vertical
6	5824.6300	40.60	-44.74	33.80	-65.60	-13.00	52.60	213	359	Vertical



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Test Band = LTE B5_10MHz _ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.1800	65.08	-48.18	25.38	-52.98	-13.00	39.98	203	59	Horizontal
2	2518.7700	58.66	-47.21	27.83	-55.97	-13.00	42.97	145	216	Horizontal
3	3358.2857	54.31	-46.60	29.48	-58.07	-13.00	45.07	152	203	Horizontal
4	4197.9500	41.38	-45.96	31.10	-68.74	-13.00	55.74	147	151	Horizontal
5	5037.5400	41.21	-45.65	32.90	-66.80	-13.00	53.80	213	310	Horizontal
6	5887.1300	41.10	-44.93	33.92	-65.17	-13.00	52.17	169	1	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	1678.8571	57.30	-48.19	25.38	-60.76	-13.00	47.76	211	301	Vertical
2	2518.7700	51.12	-47.21	27.83	-63.51	-13.00	50.51	213	78	Vertical
3	3358.2857	47.51	-46.60	29.48	-64.87	-13.00	51.87	162	90	Vertical
4	4197.9500	41.18	-45.96	31.10	-68.94	-13.00	55.94	147	360	Vertical
5	5037.5400	41.16	-45.65	32.90	-66.85	-13.00	53.85	195	129	Vertical
6	5887.1300	40.57	-44.93	33.92	-65.70	-13.00	52.70	121	237	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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Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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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	-5.10	-0.006097	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-4.70	-0.005619	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-7.10	-0.008488	±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	-7.80	-0.009325	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-6.50	-0.007770	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-9.30	-0.011118	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-6.60	-0.007890	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-7.10	-0.008488	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-6.90	-0.008249	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-5.00	-0.005977	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-8.10	-0.009683	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-4.40	-0.005260	±2.5	PASS

---End of Attachment---



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