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Appendix B.5

LTE Band 5



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	24.83	18.58	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.78	18.53	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.75	18.5	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	23.74	17.49	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	24.56	18.31	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.66	18.41	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	24.59	18.34	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.71	17.46	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	24.42	18.17	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	24.69	18.44	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	24.45	18.2	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	23.59	17.34	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	24.18	17.93	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.98	17.73	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	24.08	17.83	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.83	16.58	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	24.07	17.82	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.96	17.71	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.78	17.53	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.77	16.52	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.62	17.37	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.67	17.42	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.73	17.48	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.6	16.35	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	23.82	17.57	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	23.05	16.8	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	22.85	16.6	38.45	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	21.87	15.62	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	22.92	16.67	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	23.1	16.85	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.86	16.61	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	21.76	15.51	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	22.68	16.43	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	22.62	16.37	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	22.55	16.3	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	21.62	15.37	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#0	19.84	13.59	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#2	19.8	13.55	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#5	19.82	13.57	38.45	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	19.78	13.53	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#0	19.62	13.37	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#2	19.92	13.67	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#5	19.73	13.48	38.45	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	19.68	13.43	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#0	19.69	13.44	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#2	19.75	13.5	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#5	19.54	13.29	38.45	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	19.58	13.33	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.73	18.48	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.75	18.5	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.65	18.4	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.81	17.56	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.53	18.28	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.86	18.61	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.72	18.47	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.64	17.39	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.56	18.31	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	24.67	18.42	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	24.46	18.21	38.45	PASS



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Band5	3MHz	QPSK	20635	15RB#0	23.62	17.37	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.88	17.63	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.87	17.62	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.82	17.57	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.83	16.58	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.79	17.54	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.83	17.58	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.63	17.38	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.64	16.39	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.61	17.36	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.76	17.51	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.69	17.44	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.66	16.41	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	22.82	16.57	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	22.94	16.69	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	22.98	16.73	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	21.77	15.52	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	22.81	16.56	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	22.96	16.71	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	22.97	16.72	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	21.64	15.39	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	22.63	16.38	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	22.81	16.56	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	22.74	16.49	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	21.61	15.36	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#0	19.77	13.52	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#8	19.95	13.7	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#14	19.75	13.5	38.45	PASS
Band5	3MHz	256QAM	20415	15RB#0	19.83	13.58	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#0	19.69	13.44	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#8	19.78	13.53	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#14	19.73	13.48	38.45	PASS



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Band5	3MHz	256QAM	20525	15RB#0	19.65	13.4	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#0	19.59	13.34	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#8	19.6	13.35	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#14	19.56	13.31	38.45	PASS
Band5	3MHz	256QAM	20635	15RB#0	19.63	13.38	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.61	17.36	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.68	18.43	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	24.54	18.29	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.69	17.44	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.58	18.33	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.8	18.55	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	24.38	18.13	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.59	17.34	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	24.66	18.41	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.74	18.49	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	24.49	18.24	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.48	17.23	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	24.5	18.25	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	24.2	17.95	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.49	17.24	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.75	16.5	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.2	16.95	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.57	17.32	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.45	17.2	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.63	16.38	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.2	16.95	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.71	17.46	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.99	17.74	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.34	16.09	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	23.93	17.68	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	22.74	16.49	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	22.6	16.35	38.45	PASS



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Band5	5MHz	64QAM	20425	25RB#0	21.68	15.43	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	22.71	16.46	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	22.65	16.4	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	22.76	16.51	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	21.62	15.37	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	22.64	16.39	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	22.38	16.13	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	22.62	16.37	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	21.48	15.23	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#0	19.95	13.7	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#12	19.85	13.6	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#24	19.95	13.7	38.45	PASS
Band5	5MHz	256QAM	20425	25RB#0	19.55	13.3	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#0	19.46	13.21	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#12	19.36	13.11	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#24	19.92	13.67	38.45	PASS
Band5	5MHz	256QAM	20525	25RB#0	19.53	13.28	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#0	19.28	13.03	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#12	19.74	13.49	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#24	19.23	12.98	38.45	PASS
Band5	5MHz	256QAM	20625	25RB#0	19.29	13.04	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.44	17.19	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.38	17.13	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.47	17.22	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.5	16.25	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.36	17.11	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.44	17.19	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.46	17.21	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.6	16.35	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	23.42	17.17	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	23.56	17.31	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	23.56	17.31	38.45	PASS



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Band5	10MHz	64QAM	20450	50RB#0	22.55	16.3	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#0	22.46	16.21	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#24	22.75	16.5	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#49	22.52	16.27	38.45	PASS
Band5	10MHz	256QAM	20450	50RB#0	21.51	15.26	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.54	16.29	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.67	16.42	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.1	16.85	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.6	15.35	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.51	16.26	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.6	16.35	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.95	16.7	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.59	15.34	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	21.62	15.37	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	21.66	15.41	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	21.71	15.46	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	20.54	14.29	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#0	21.64	15.39	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#24	21.6	15.35	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#49	21.97	15.72	38.45	PASS
Band5	10MHz	256QAM	20525	50RB#0	20.59	14.34	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	21.74	15.49	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	21.64	15.39	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	21.77	15.52	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	20.58	14.33	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	18.49	12.24	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	18.65	12.4	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	18.53	12.28	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	18.5	12.25	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	18.54	12.29	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	18.66	12.41	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	18.55	12.3	38.45	PASS



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Report No.: SEWM2309000386RG01

Rev.: 01

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Band5	10MHz	64QAM	20600	50RB#0	18.61	12.36	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#0	18.41	12.16	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#24	18.68	12.43	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#49	18.71	12.46	38.45	PASS
Band5	10MHz	256QAM	20600	50RB#0	18.61	12.36	38.45	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

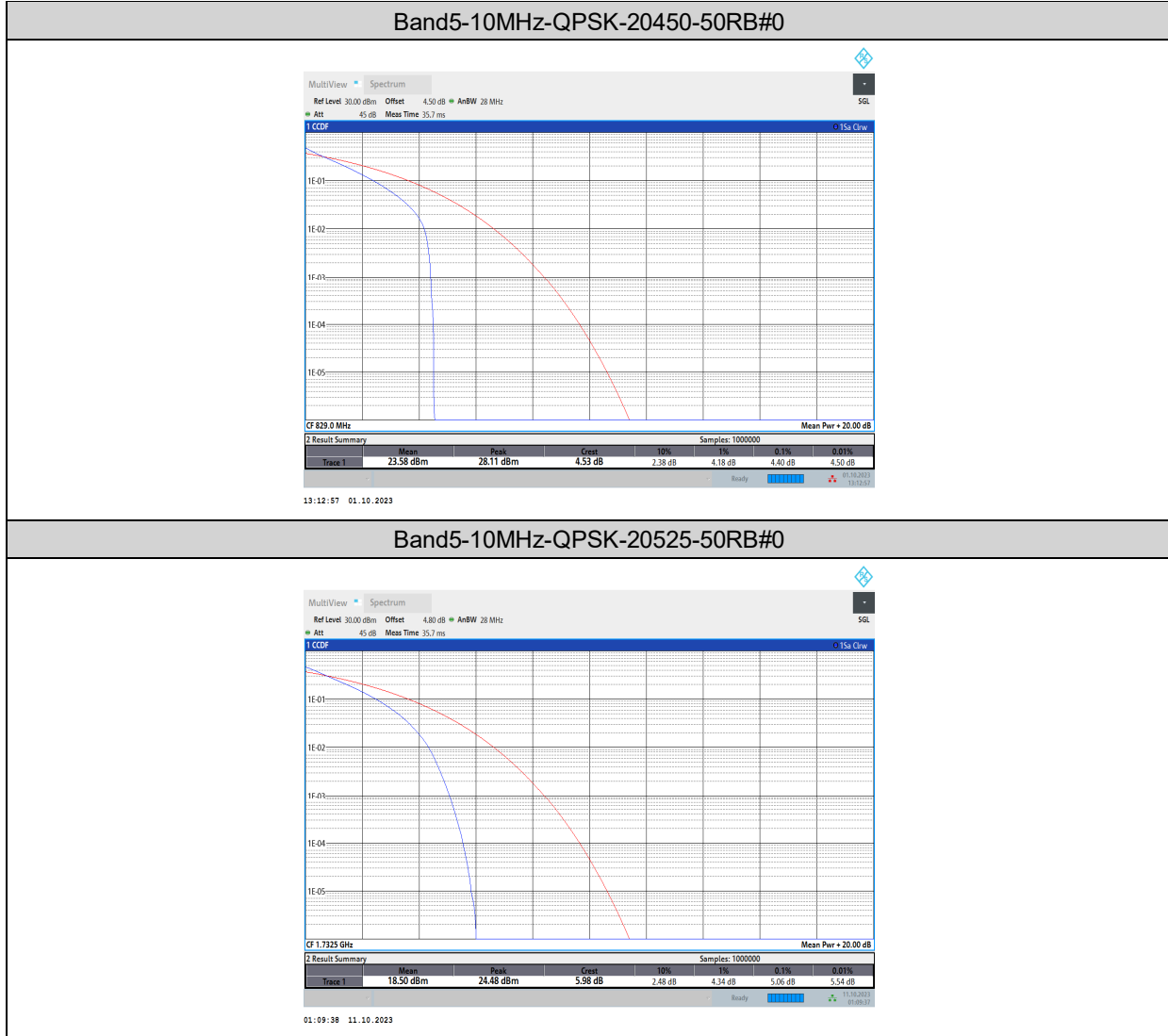
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	4.40	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.14	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.20	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.38	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.70	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.74	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	5.34	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.62	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.40	13	PASS
Band5	10MHz	256QAM	20450	50RB#0	6.40	13	PASS
Band5	10MHz	256QAM	20525	50RB#0	7.14	13	PASS
Band5	10MHz	256QAM	20600	50RB#0	6.48	13	PASS



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Test Graphs

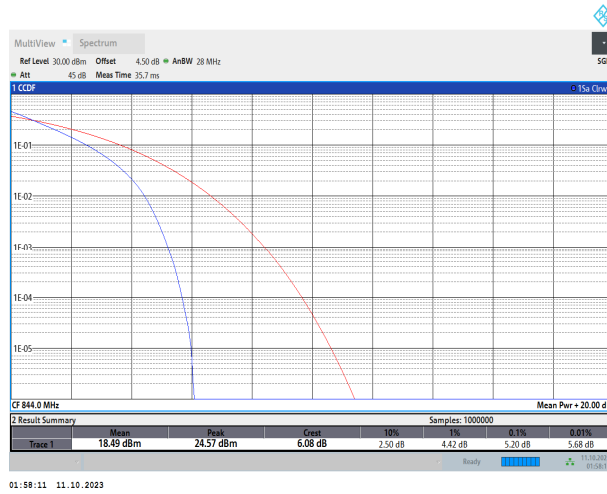


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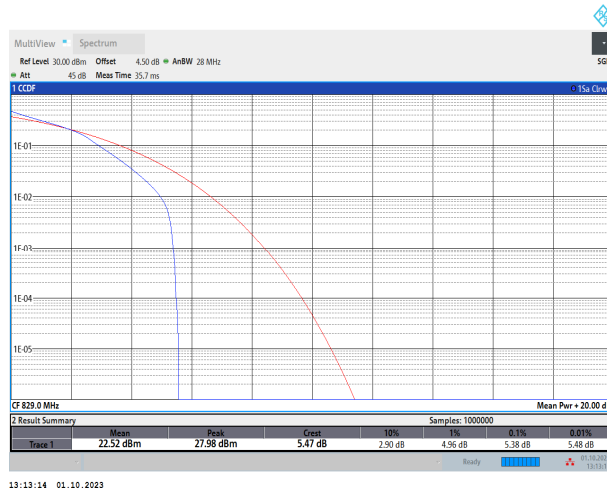
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Band5-10MHz-QPSK-20600-50RB#0



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

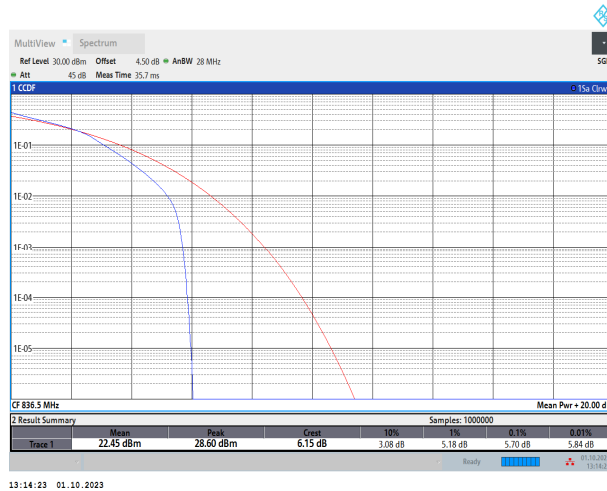


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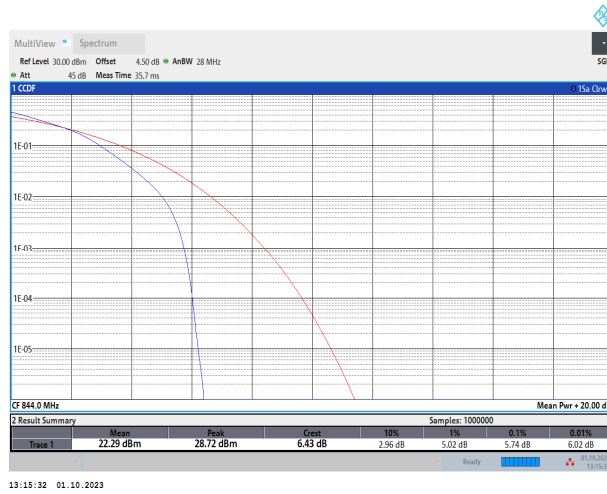
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Band5-10MHz-16QAM-20525-50RB#0



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

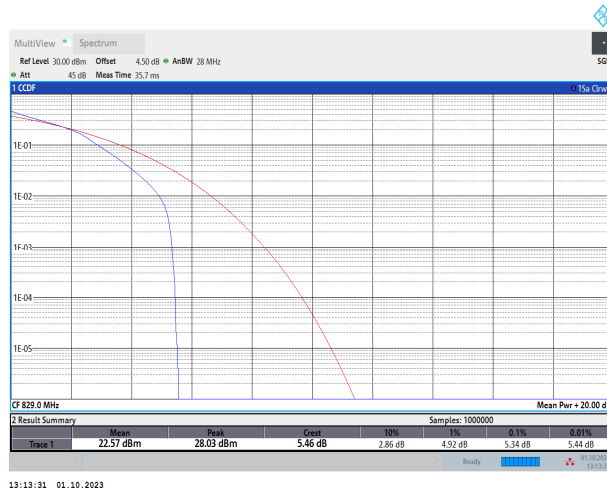


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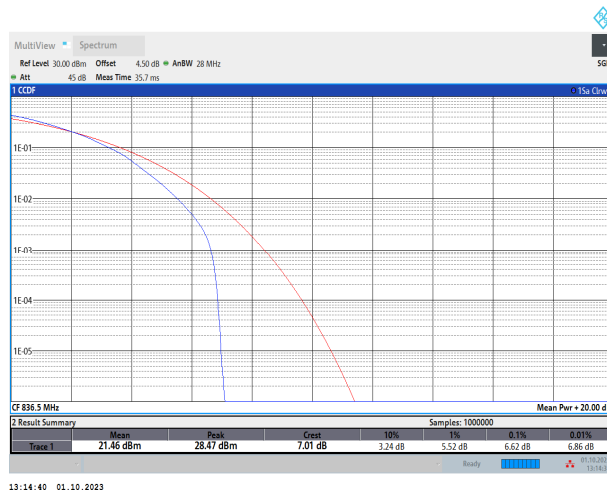
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Band5-10MHz-64QAM-20450-50RB#0



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

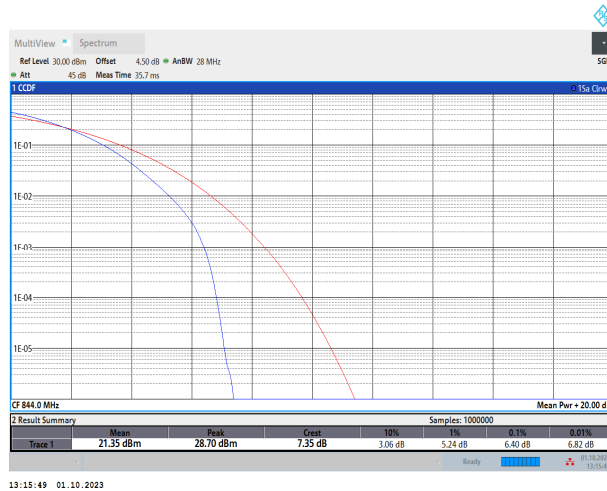


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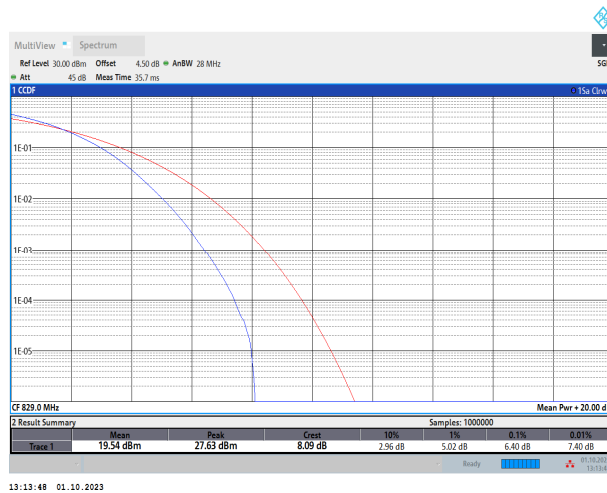
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Band5-10MHz-64QAM-20600-50RB#0



Band5-10MHz-256QAM-20450-50RB#0

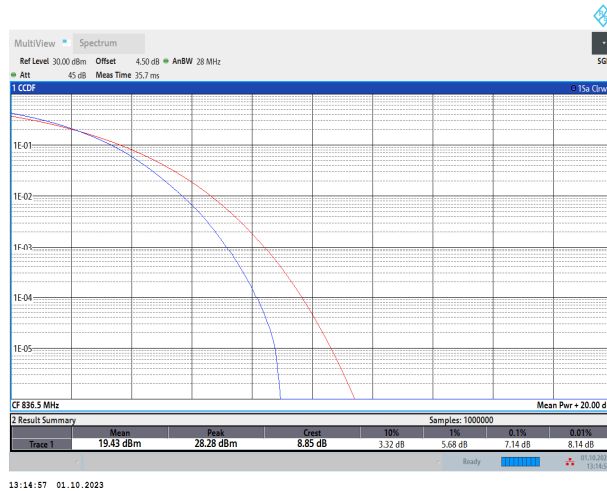


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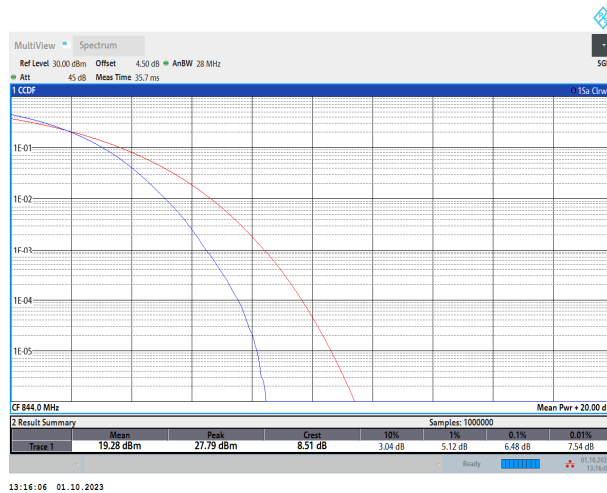
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Band5-10MHz-256QAM-20525-50RB#0



Band5-10MHz-256QAM-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	20525	6RB#0	1.107	1.39	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.11	1.39	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.102	1.37	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	1.107	1.40	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.694	3.07	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.7	3.06	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.702	3.04	PASS
Band5	3MHz	256QAM	20525	15RB#0	2.705	3.05	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	5.06	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.482	5.03	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.484	5.05	PASS
Band5	5MHz	256QAM	20525	25RB#0	4.483	4.96	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.944	9.86	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.937	9.92	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.941	9.90	PASS
Band5	10MHz	256QAM	20525	50RB#0	8.946	9.84	PASS



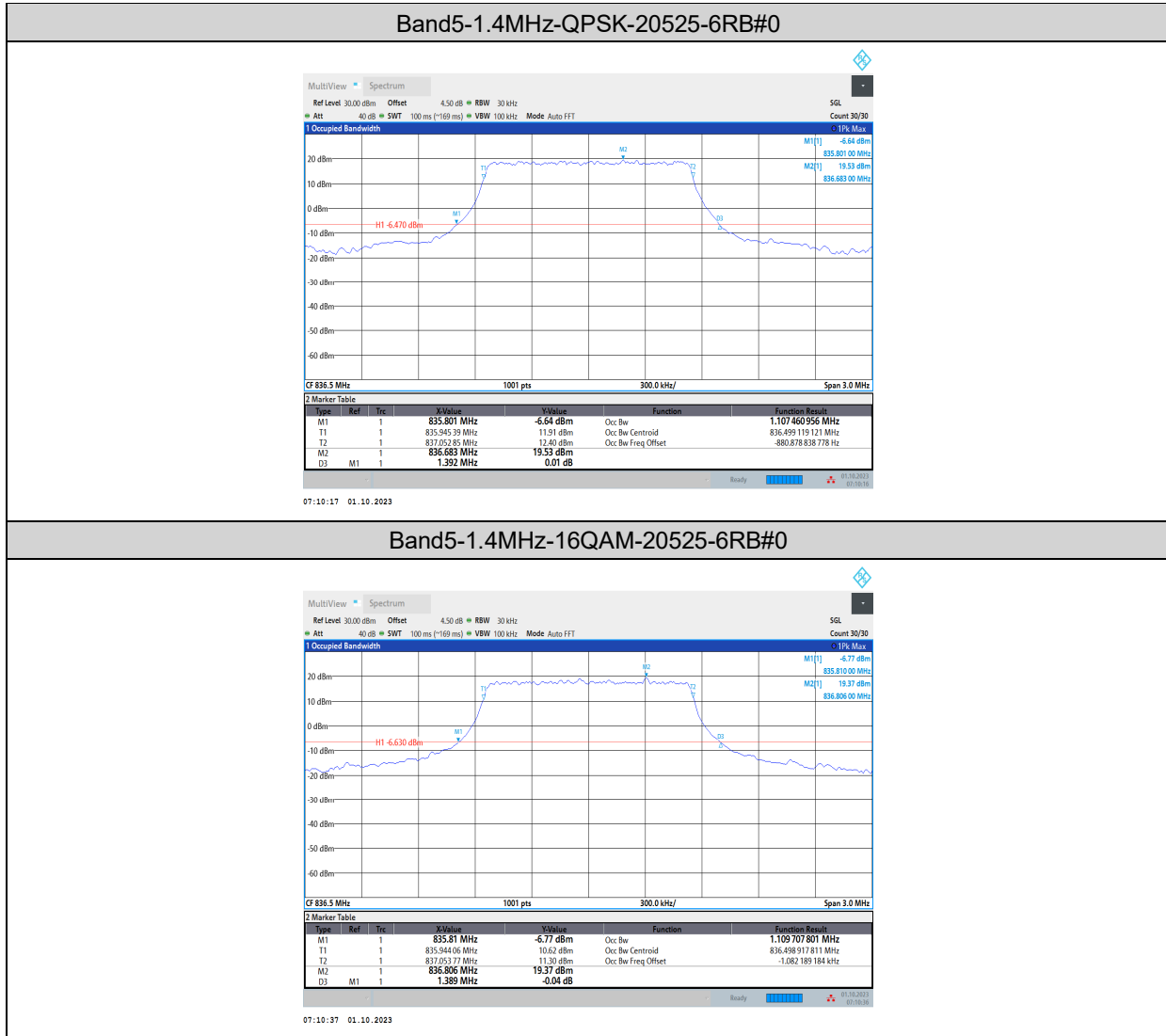
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Test Graphs

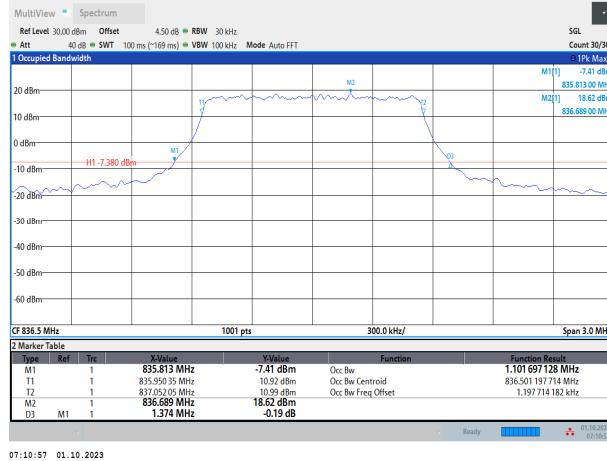


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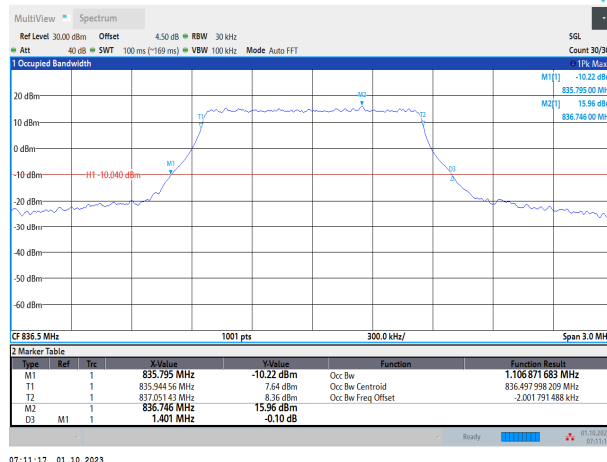
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Band5-1.4MHz-64QAM-20525-6RB#0



07:10:57 01.10.2023

Band5-1.4MHz-256QAM-20525-6RB#0



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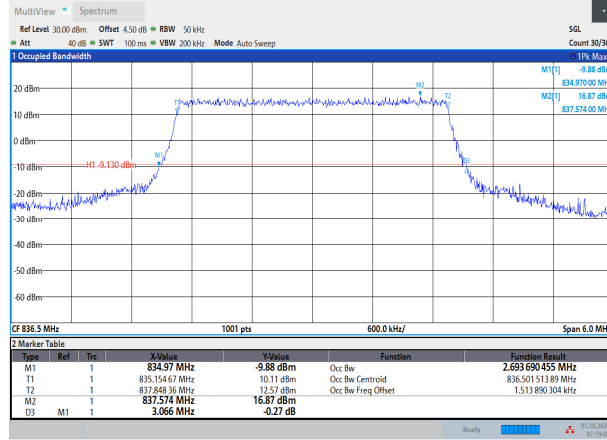


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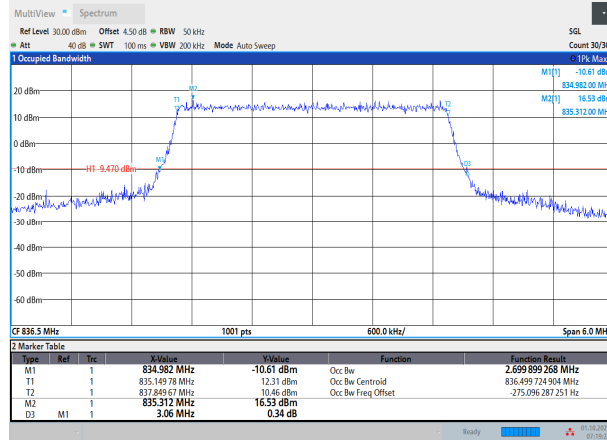
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Band5-3MHz-QPSK-20525-15RB#0



07:19:05 01.10.2023

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



07:19:24 01.10.2023

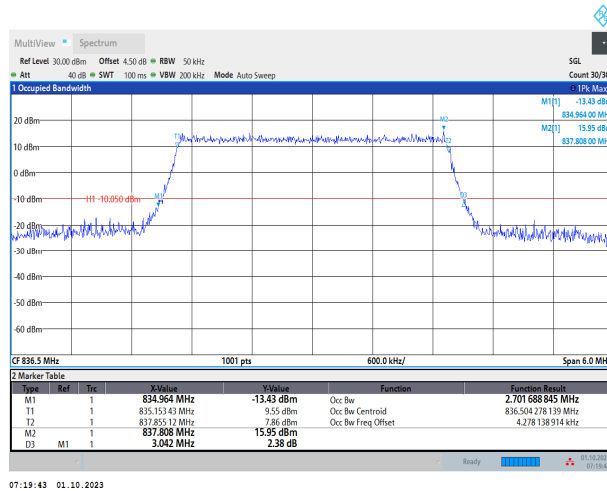


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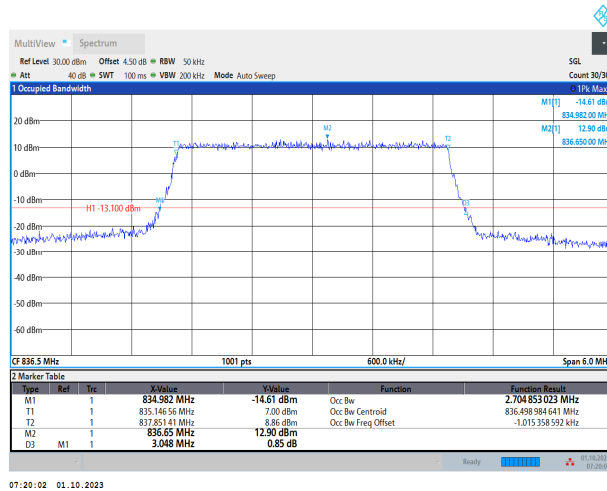
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Band5-3MHz-64QAM-20525-15RB#0



Band5-3MHz-256QAM-20525-15RB#0

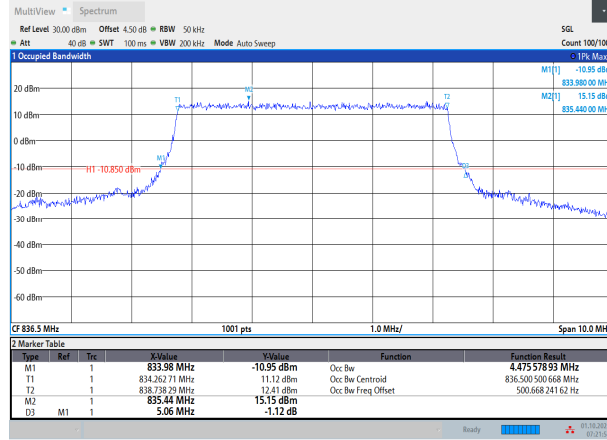


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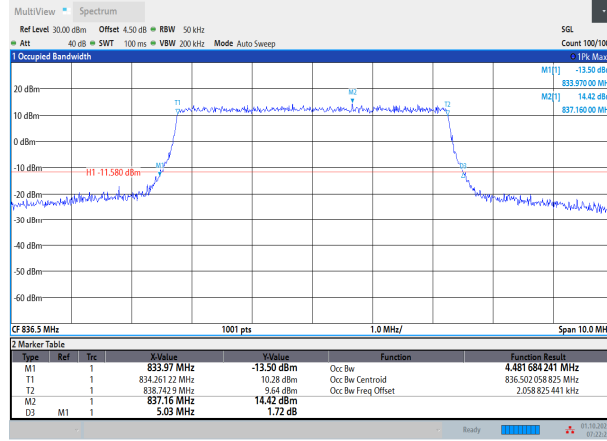
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Band5-5MHz-QPSK-20525-25RB#0



07:21:56 01.10.2023

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



07:22:22 01.10.2023

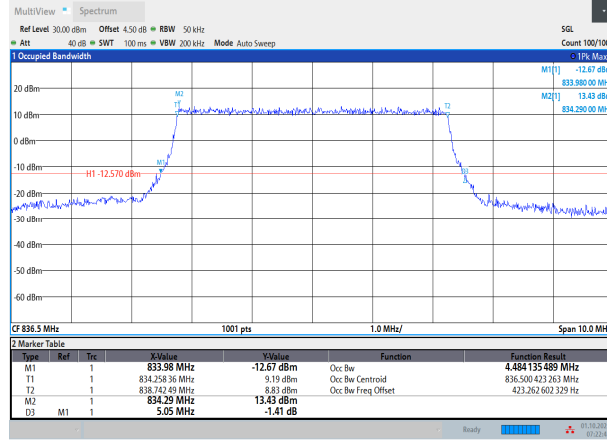


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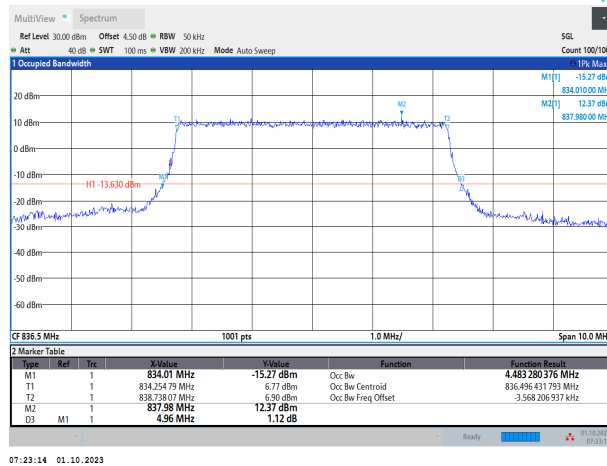
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Band5-5MHz-64QAM-20525-25RB#0



Band5-5MHz-256QAM-20525-25RB#0

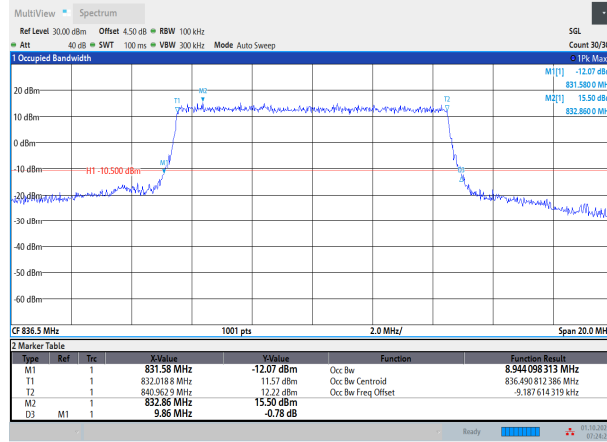


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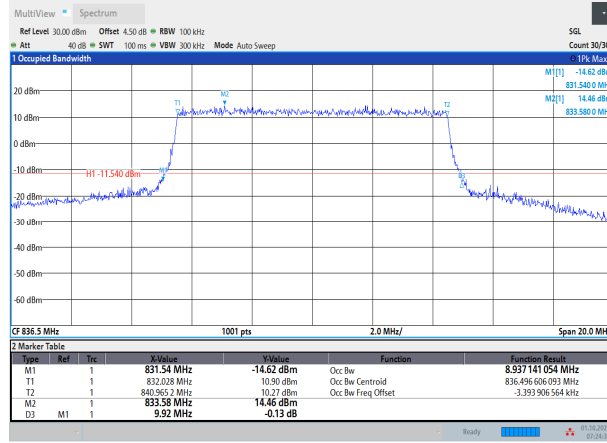
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Band5-10MHz-QPSK-20525-50RB#0



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

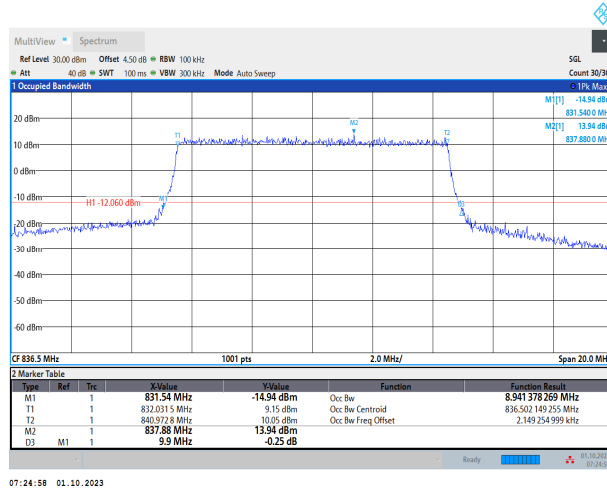


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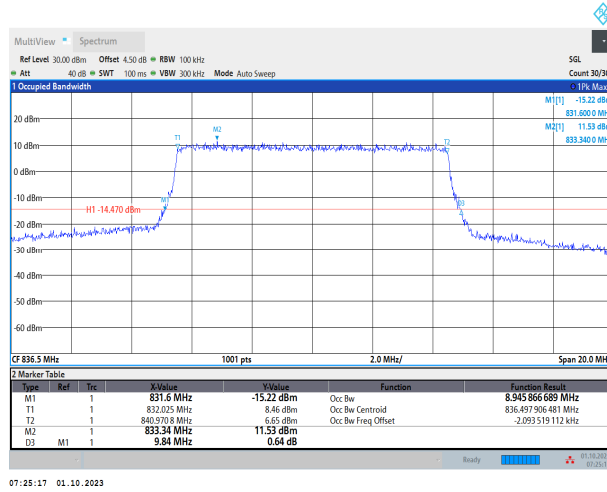
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Band5-10MHz-64QAM-20525-50RB#0



Band5-10MHz-256QAM-20525-50RB#0



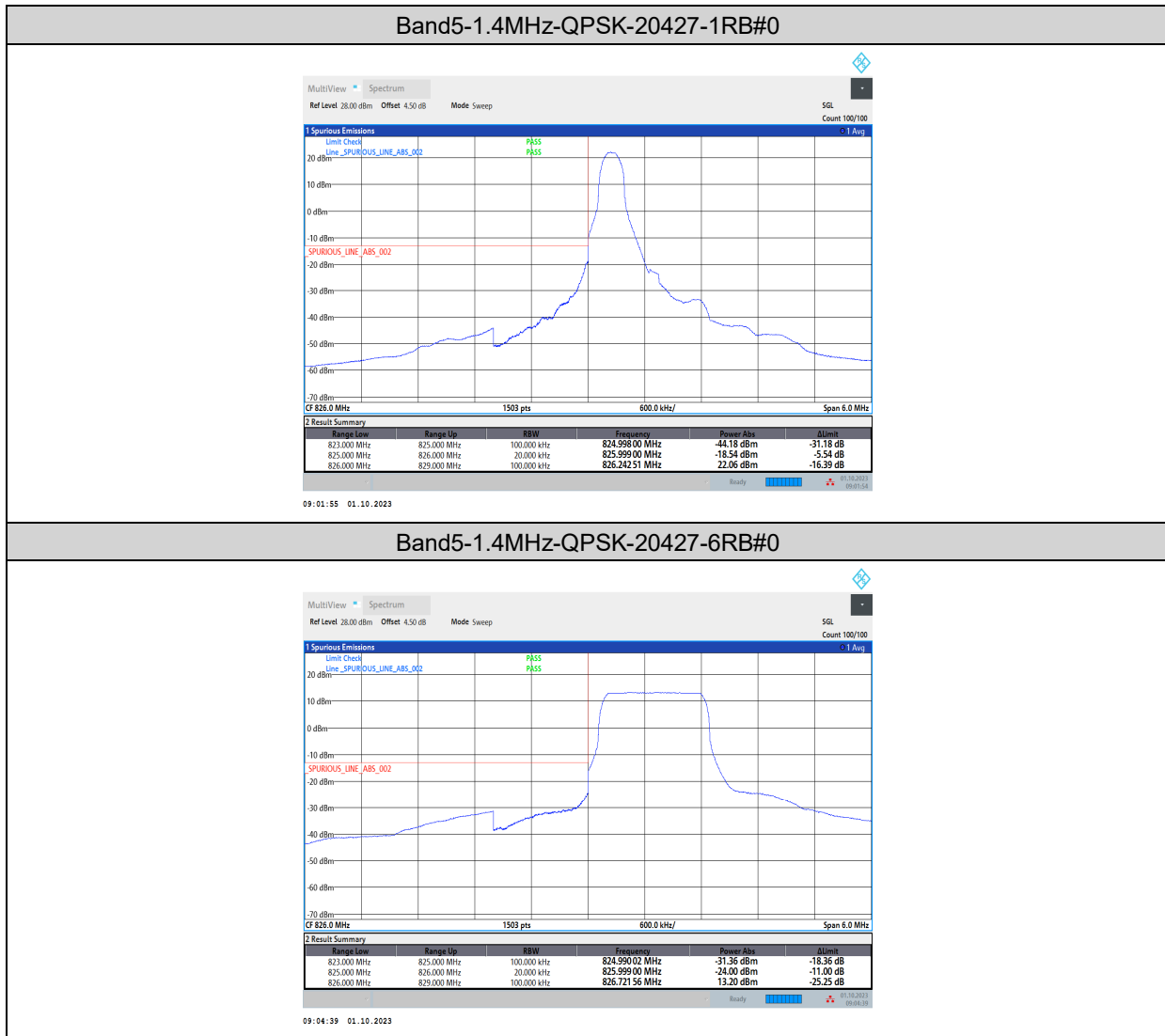
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Band Edge

Test Graphs

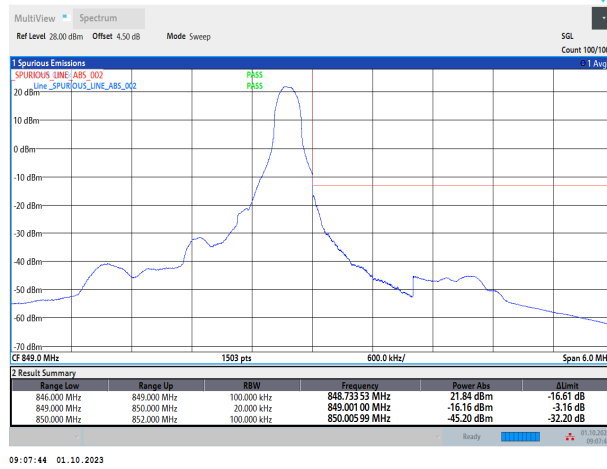


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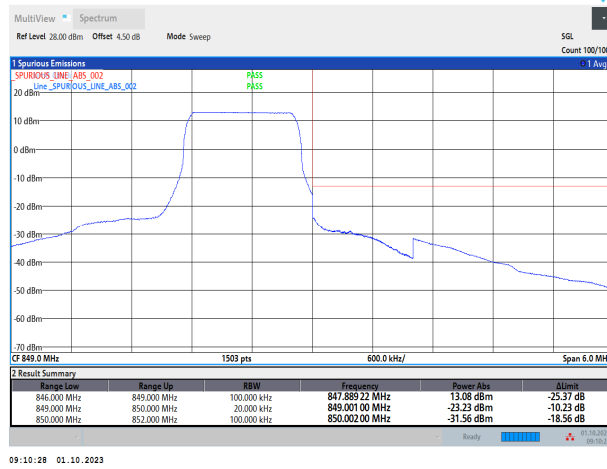
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Band5-1.4MHz-QPSK-20643-1RB#5



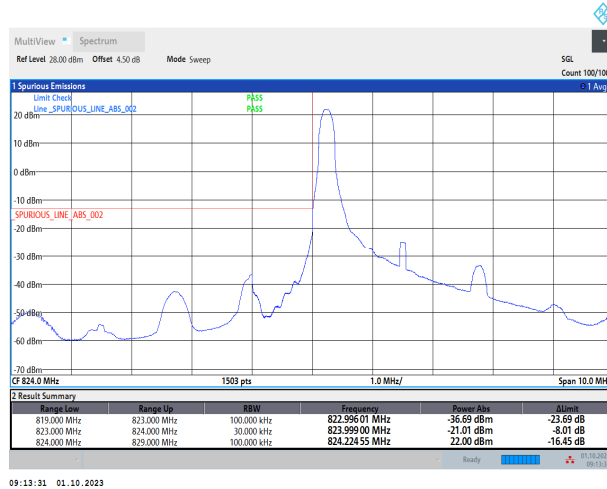
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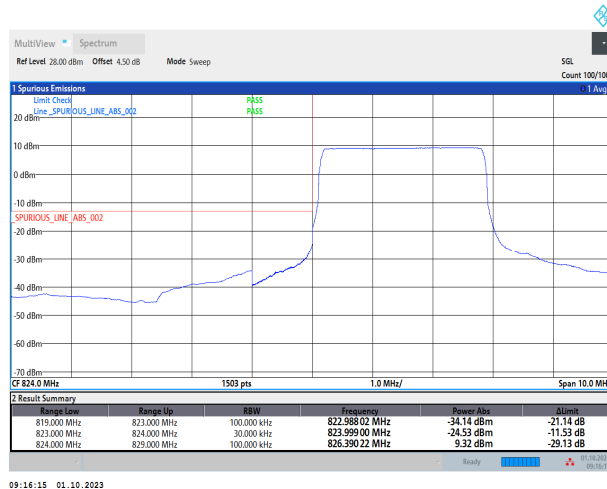
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Band5-3MHz-QPSK-20415-1RB#0



09:19:31 01.10.2023

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



09:16:15 01.10.2023

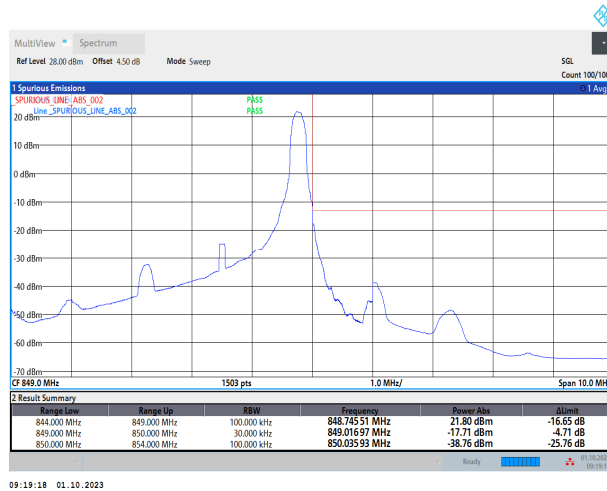


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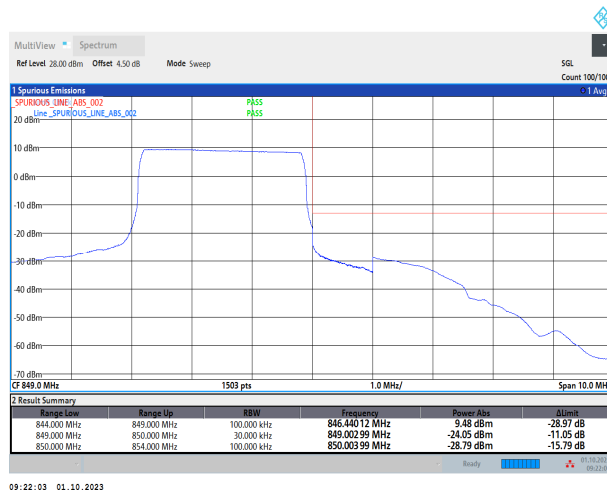
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Band5-3MHz-QPSK-20635-1RB#14



09:19:18 01.10.2023

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



09:22:03 01.10.2023

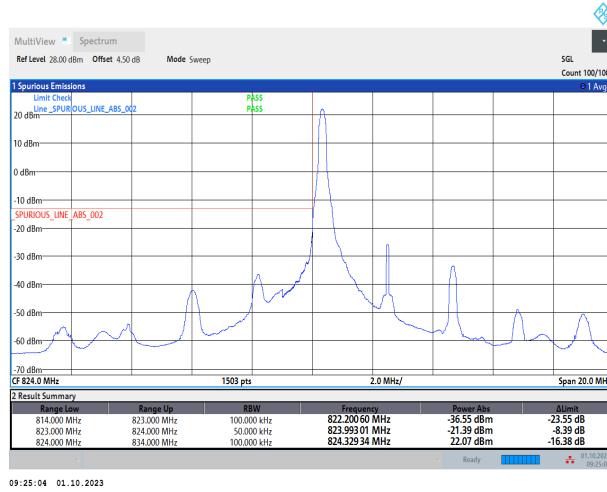


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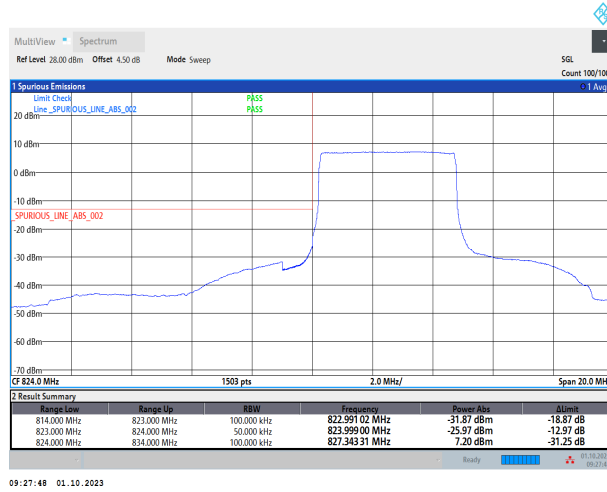
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Band5-5MHz-QPSK-20425-1RB#0



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

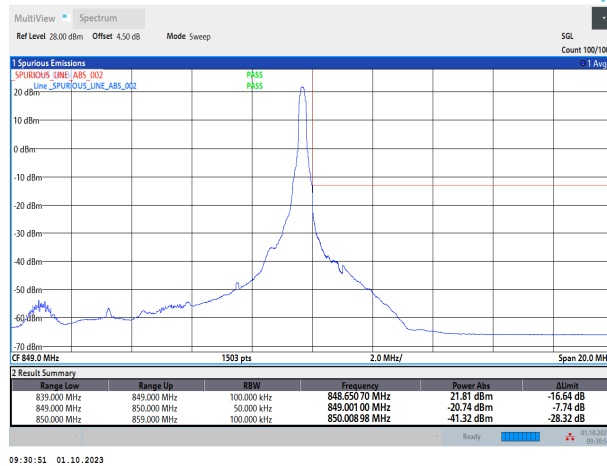


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Band5-5MHz-QPSK-20625-1RB#24



09:30:51 01.10.2023

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



09:33:35 01.10.2023

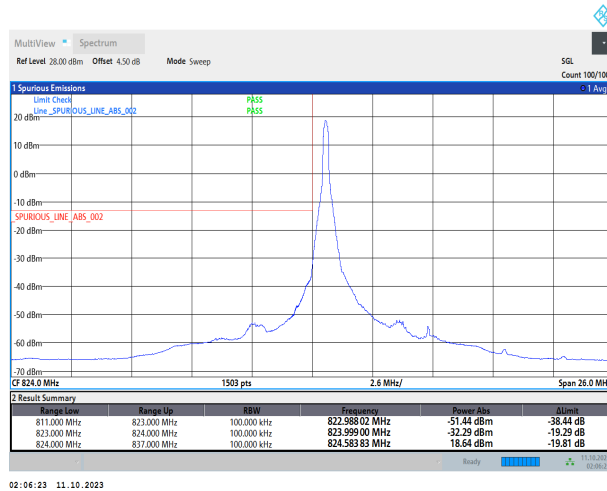


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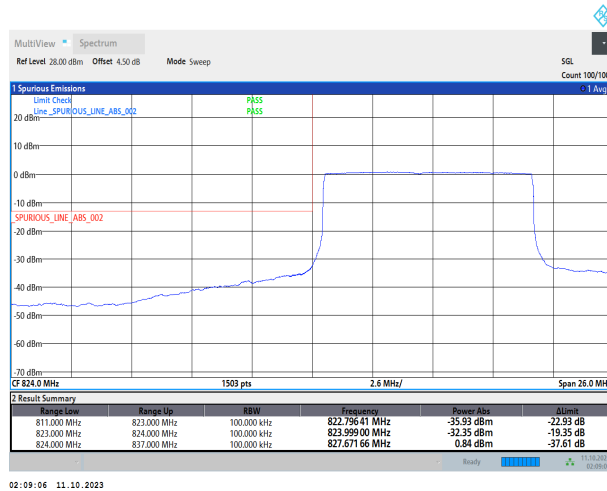
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Band5-10MHz-QPSK-20450-1RB#0



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

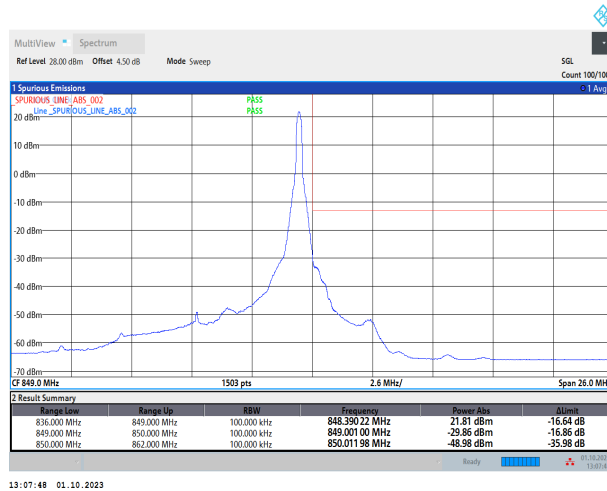


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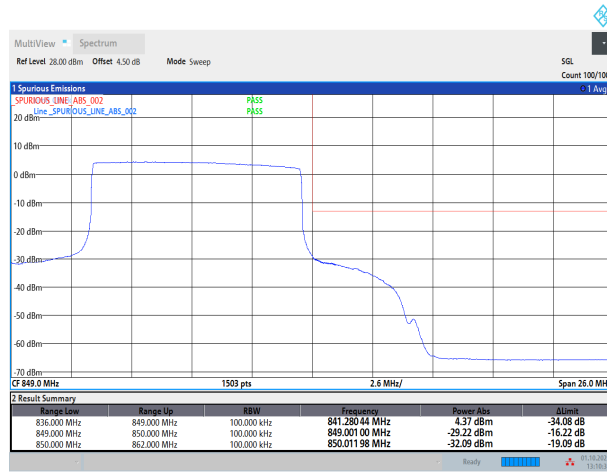
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Band5-10MHz-QPSK-20600-1RB#49



13:07:48 01.10.2023

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



13:10:32 01.10.2023



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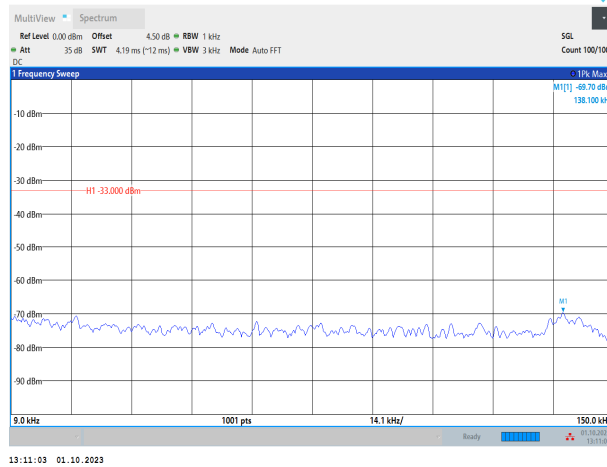
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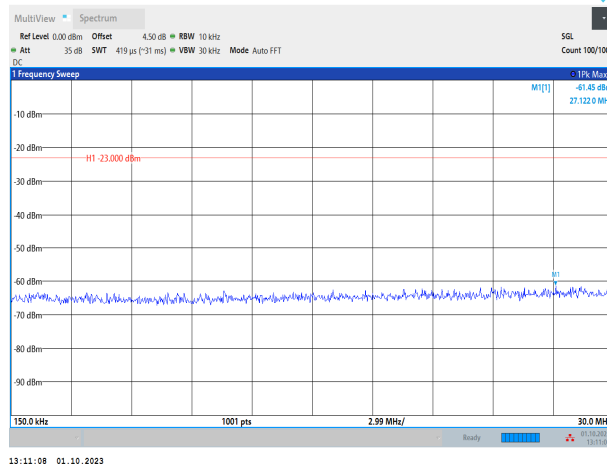
Conducted Spurious Emission

Test Graphs

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



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

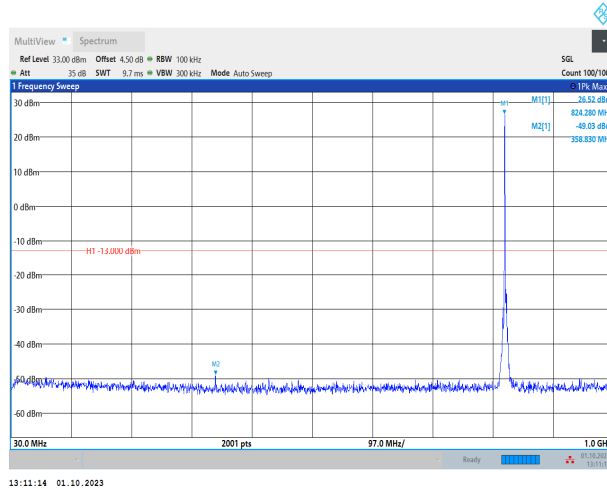


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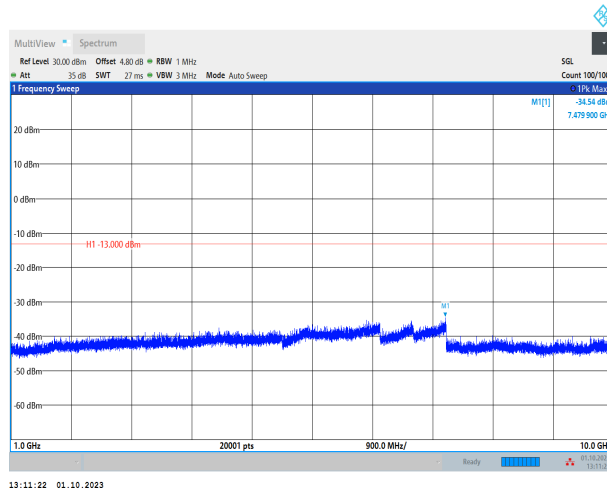
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



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

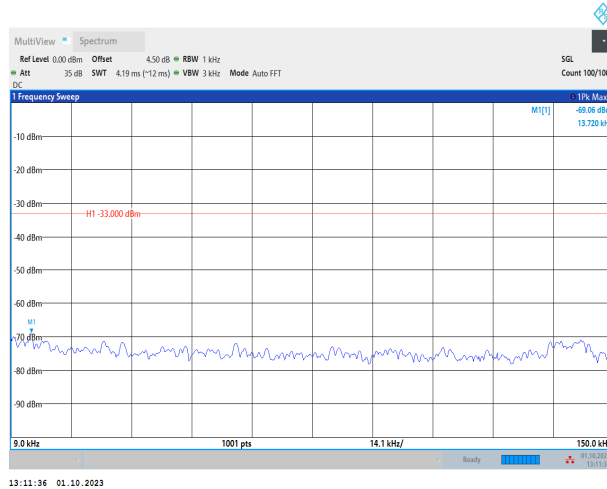


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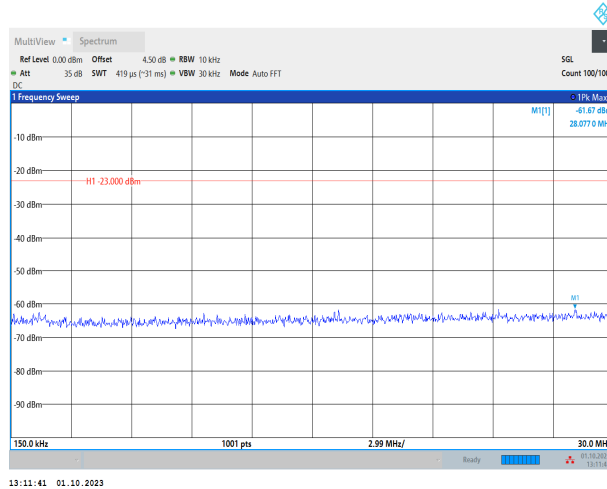
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



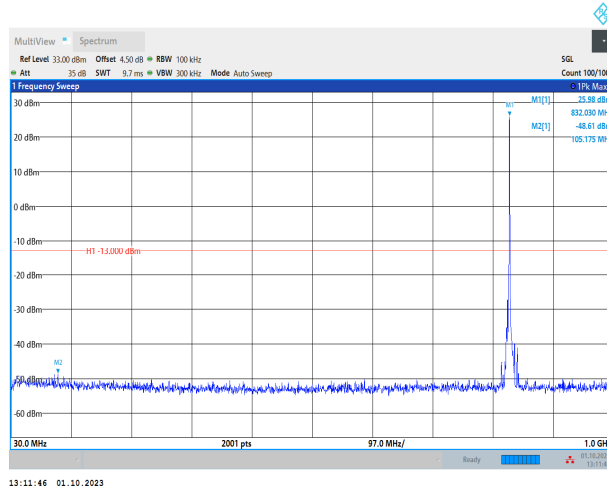
Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



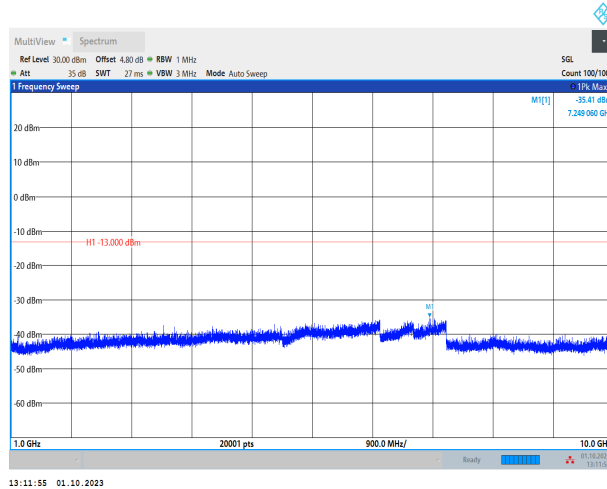
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



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

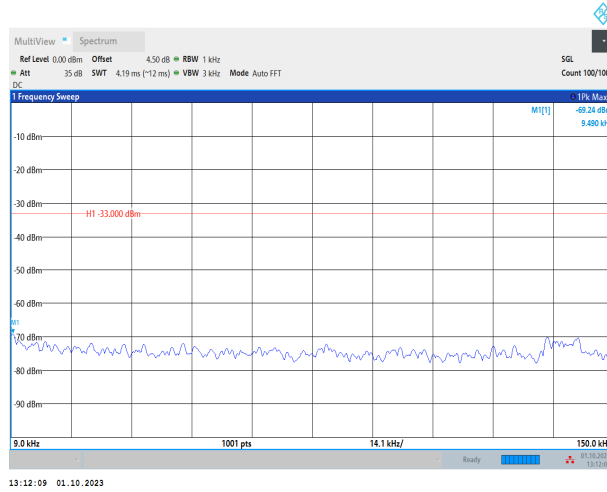


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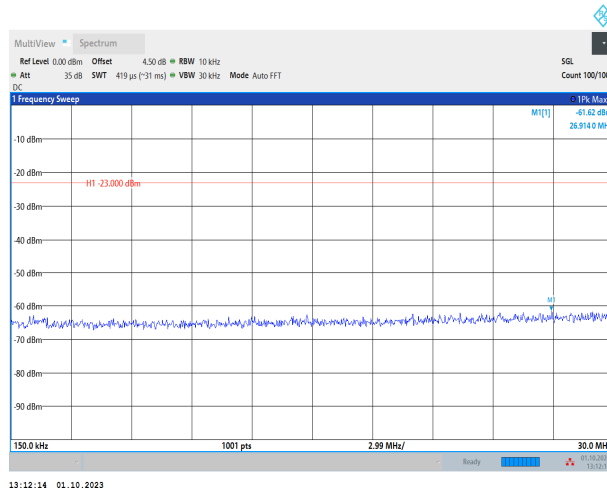
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



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

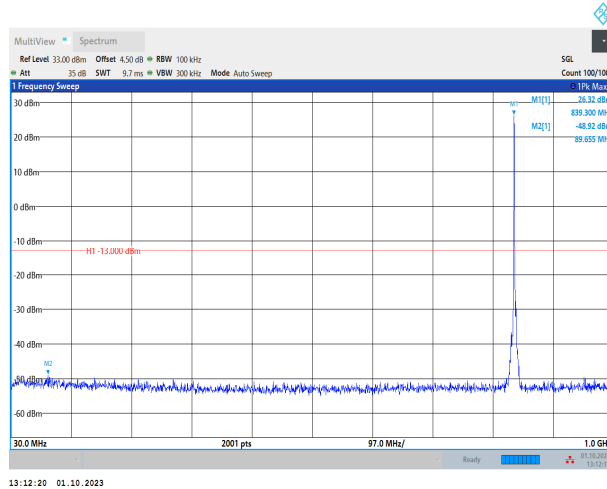


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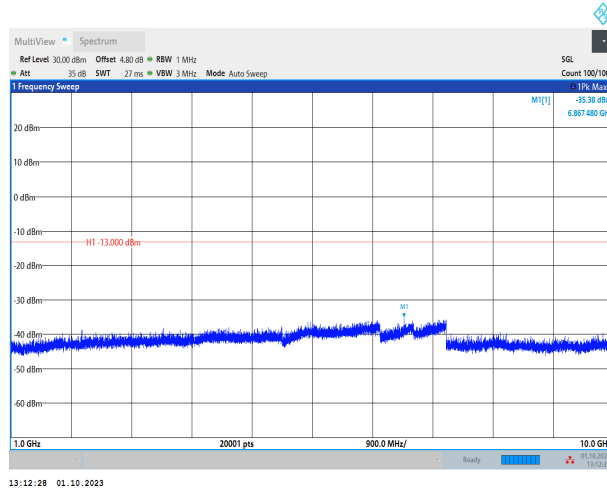
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band 5_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.18	45.54	-49.83	25.30	-74.25	-13.00	61.25	Horizontal
2	2473.77	44.52	-49.05	27.27	-72.52	-13.00	59.52	Horizontal
3	3298.36	44.47	-48.63	28.62	-70.80	-13.00	57.80	Horizontal
4	4122.95	44.06	-48.28	29.62	-69.86	-13.00	56.86	Horizontal
5	4947.54	42.96	-48.07	31.37	-69.00	-13.00	56.00	Horizontal
6	5772.13	43.19	-47.66	32.75	-66.97	-13.00	53.97	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.18	45.58	-49.83	25.30	-74.21	-13.00	61.21	Vertical
2	2473.77	44.11	-49.05	27.27	-72.93	-13.00	59.93	Vertical
3	3298.36	44.89	-48.63	28.62	-70.38	-13.00	57.38	Vertical
4	4122.95	43.69	-48.28	29.62	-70.23	-13.00	57.23	Vertical
5	4947.54	43.38	-48.07	31.37	-68.58	-13.00	55.58	Vertical
6	5772.13	43.32	-47.66	32.75	-66.84	-13.00	53.84	Vertical



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Test Band = LTE Band 5_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.18	44.99	-49.79	25.36	-74.71	-13.00	61.71	Horizontal
2	2496.27	43.79	-48.92	27.30	-73.09	-13.00	60.09	Horizontal
3	3328.36	44.45	-48.65	28.63	-70.83	-13.00	57.83	Horizontal
4	4160.45	43.79	-48.32	29.69	-70.10	-13.00	57.10	Horizontal
5	4992.54	43.21	-47.97	31.48	-68.54	-13.00	55.54	Horizontal
6	5824.63	42.79	-47.55	32.76	-67.25	-13.00	54.25	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.18	45.72	-49.79	25.36	-73.98	-13.00	60.98	Vertical
2	2496.27	44.05	-48.92	27.30	-72.83	-13.00	59.83	Vertical
3	3328.36	44.20	-48.65	28.63	-71.08	-13.00	58.08	Vertical
4	4160.45	43.84	-48.32	29.69	-70.05	-13.00	57.05	Vertical
5	4992.54	43.20	-47.97	31.48	-68.55	-13.00	55.55	Vertical
6	5824.63	43.64	-47.55	32.76	-66.40	-13.00	53.40	Vertical



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Test Band = LTE Band 5_ TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.18	45.15	-49.76	25.42	-74.45	-13.00	61.45	Horizontal
2	2518.77	44.35	-48.95	27.35	-72.52	-13.00	59.52	Horizontal
3	3358.36	44.18	-48.67	28.64	-71.10	-13.00	58.10	Horizontal
4	4197.95	44.48	-48.36	29.76	-69.38	-13.00	56.38	Horizontal
5	5037.54	43.47	-47.94	31.59	-68.14	-13.00	55.14	Horizontal
6	5887.13	43.32	-47.11	32.78	-66.27	-13.00	53.27	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.18	45.10	-49.76	25.42	-74.50	-13.00	61.50	Vertical
2	2518.77	45.36	-48.95	27.35	-71.51	-13.00	58.51	Vertical
3	3358.36	44.60	-48.67	28.64	-70.68	-13.00	57.68	Vertical
4	4197.95	43.88	-48.36	29.76	-69.98	-13.00	56.98	Vertical
5	5037.54	44.01	-47.94	31.59	-67.60	-13.00	54.60	Vertical
6	5887.13	43.39	-47.11	32.78	-66.20	-13.00	53.20	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.



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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	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	1.50	0.001793	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	0.70	0.000837	±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	2.70	0.003228	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	1.80	0.002152	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	2.60	0.003108	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	1.10	0.001315	±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	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	0.90	0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	2.70	0.003228	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	0.10	0.000120	±2.5	PASS

---End of Attachment---



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