

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	24.26	17.51	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.17	17.42	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.15	17.40	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	23.15	16.40	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.36	16.61	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.29	16.54	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.38	16.63	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.31	15.56	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	22.34	15.59	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	22.39	15.64	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	22.42	15.67	38.45	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	21.43	14.68	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#0	19.55	12.80	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#2	19.54	12.79	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#5	19.68	12.93	38.45	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	19.67	12.92	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	24.26	17.51	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.27	17.52	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	24.12	17.37	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.34	16.59	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.38	16.63	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.37	16.62	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.31	16.56	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.40	15.65	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	22.36	15.61	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	22.40	15.65	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.46	15.71	38.45	PASS



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Band5	1.4MHz	64QAM	20525	6RB#0	21.47	14.72	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#0	19.78	13.03	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#2	19.69	12.94	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#5	19.44	12.69	38.45	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	19.52	12.77	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	24.28	17.53	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	24.24	17.49	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	24.26	17.51	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	23.26	16.51	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.33	16.58	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.40	16.65	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.29	16.54	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.52	15.77	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	22.47	15.72	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	22.33	15.58	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	22.44	15.69	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	21.48	14.73	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#0	19.70	12.95	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#2	19.62	12.87	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#5	19.82	13.07	38.45	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	19.84	13.09	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.31	17.56	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.21	17.46	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.26	17.51	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.32	16.57	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.41	16.66	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.37	16.62	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.38	16.63	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.38	15.63	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	22.44	15.69	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	22.45	15.70	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	22.38	15.63	38.45	PASS



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Band5	3MHz	64QAM	20415	15RB#0	21.54	14.79	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#0	19.64	12.89	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#8	19.52	12.77	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#14	19.63	12.88	38.45	PASS
Band5	3MHz	256QAM	20415	15RB#0	19.58	12.83	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.26	17.51	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.19	17.44	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.26	17.51	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.22	16.47	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.41	16.66	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.34	16.59	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.37	16.62	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.40	15.65	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	22.46	15.71	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	22.47	15.72	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	22.41	15.66	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	21.48	14.73	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#0	19.69	12.94	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#8	19.60	12.85	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#14	19.46	12.71	38.45	PASS
Band5	3MHz	256QAM	20525	15RB#0	19.45	12.70	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.18	17.43	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	24.27	17.52	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.32	16.57	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.34	16.59	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.40	16.65	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.32	16.57	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.45	15.70	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.42	15.67	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	22.42	15.67	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	22.42	15.67	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	21.50	14.75	38.45	PASS



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Band5	3MHz	64QAM	20635	15RB#0	19.67	12.92	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#0	19.63	12.88	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#8	19.85	13.10	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#14	19.77	13.02	38.45	PASS
Band5	3MHz	256QAM	20635	15RB#0	24.27	17.52	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	24.15	17.40	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.29	17.54	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.22	16.47	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.31	16.56	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.33	16.58	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.37	16.62	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.39	15.64	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.40	15.65	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	22.42	15.67	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	22.46	15.71	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	21.52	14.77	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	19.59	12.84	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#0	19.51	12.76	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#12	19.72	12.97	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#24	19.63	12.88	38.45	PASS
Band5	5MHz	256QAM	20425	25RB#0	24.21	17.46	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.23	17.48	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.20	17.45	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.31	16.56	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.37	16.62	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.31	16.56	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.37	16.62	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.45	15.70	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.38	15.63	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	22.46	15.71	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	22.39	15.64	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	21.45	14.70	38.45	PASS



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Band5	5MHz	64QAM	20525	25RB#0	19.76	13.01	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#0	19.65	12.90	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#12	19.51	12.76	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#24	19.52	12.77	38.45	PASS
Band5	5MHz	256QAM	20525	25RB#0	24.27	17.52	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	24.19	17.44	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.27	17.52	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.25	16.50	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.31	16.56	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.41	16.66	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.31	16.56	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.47	15.72	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.46	15.71	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	22.38	15.63	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	22.42	15.67	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	21.51	14.76	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	19.74	12.99	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#0	19.59	12.84	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#12	19.75	13.00	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#24	19.82	13.07	38.45	PASS
Band5	5MHz	256QAM	20625	25RB#0	24.22	17.47	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.22	17.47	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.28	17.53	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.26	16.51	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.37	16.62	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.37	16.62	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.36	16.61	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.38	15.63	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.39	15.64	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	22.37	15.62	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	22.48	15.73	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	21.53	14.78	38.45	PASS



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Band5	10MHz	64QAM	20450	50RB#0	19.62	12.87	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#0	19.45	12.70	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#24	19.71	12.96	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#49	19.58	12.83	38.45	PASS
Band5	10MHz	256QAM	20450	50RB#0	24.29	17.54	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.16	17.41	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.28	17.53	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.28	16.53	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.40	16.65	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.39	16.64	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.37	16.62	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.42	15.67	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.43	15.68	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	22.43	15.68	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	22.41	15.66	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	21.55	14.80	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	19.77	13.02	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#0	19.67	12.92	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#24	19.50	12.75	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#49	19.51	12.76	38.45	PASS
Band5	10MHz	256QAM	20525	50RB#0	24.26	17.51	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.20	17.45	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.22	17.47	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.21	16.46	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.34	16.59	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.37	16.62	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.40	16.65	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.39	15.64	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.48	15.73	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	22.37	15.62	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	22.47	15.72	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	21.51	14.76	38.45	PASS



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Report No.: SEWM2307000261RG01

Rev.: 01

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Band5	10MHz	64QAM	20600	50RB#0	19.74	12.99	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#0	19.62	12.87	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#24	19.77	13.02	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#49	19.79	13.04	38.45	PASS
Band5	10MHz	256QAM	20600	50RB#0	24.26	17.51	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	4.68	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.70	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.52	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.50	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.74	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.84	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.20	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.34	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.38	13	PASS
Band5	10MHz	256QAM	20450	50RB#0	6.80	13	PASS
Band5	10MHz	256QAM	20525	50RB#0	6.82	13	PASS
Band5	10MHz	256QAM	20600	50RB#0	6.86	13	PASS

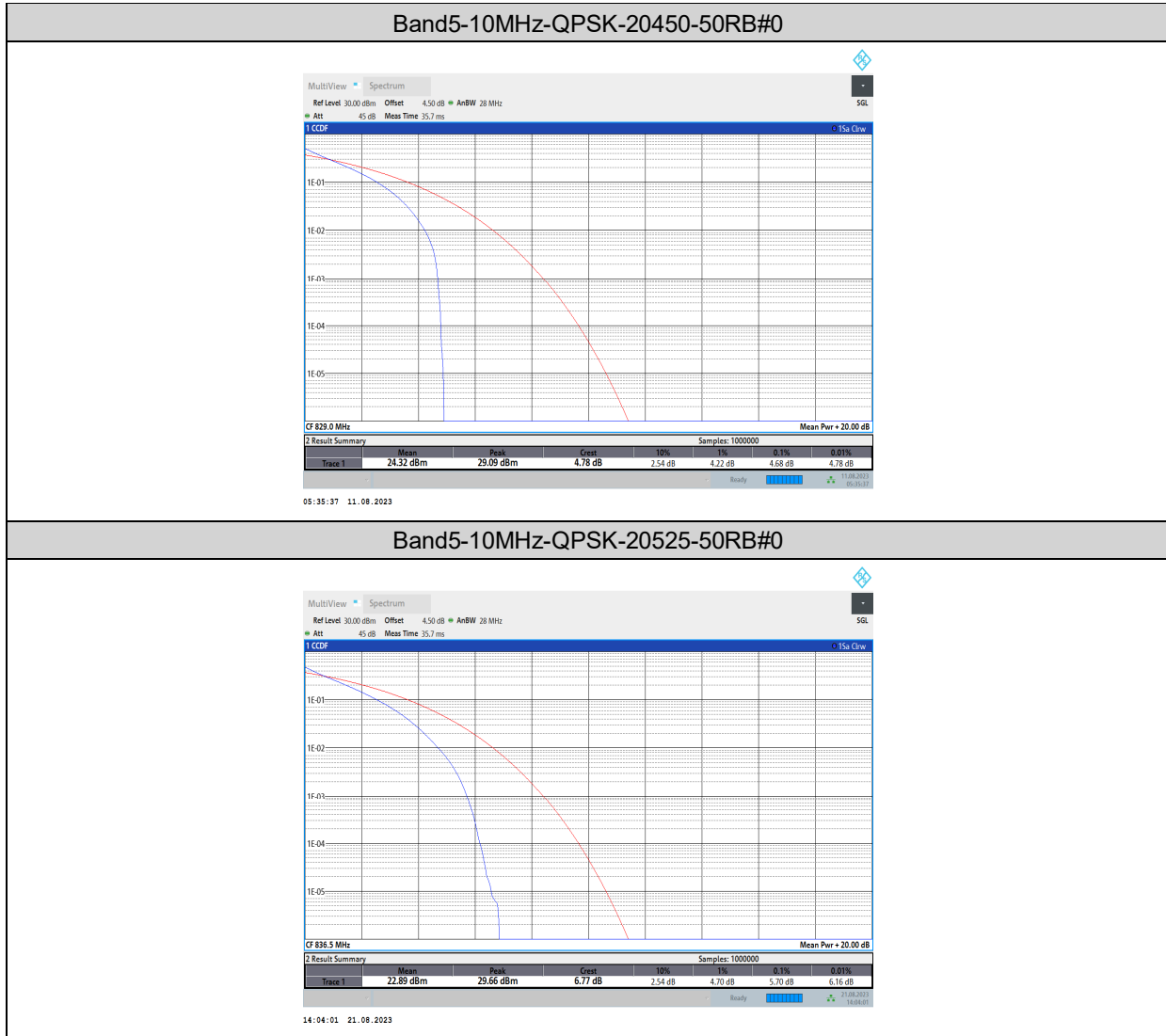


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Test Graphs

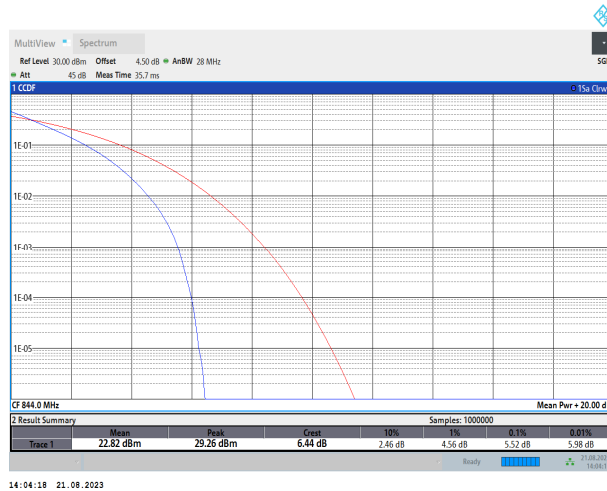


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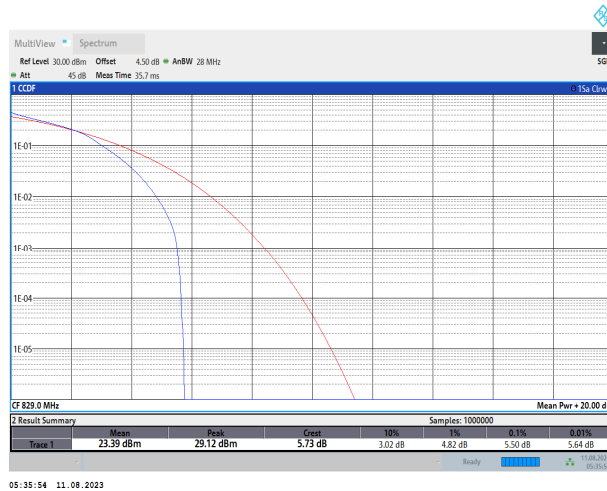
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Band5-10MHz-QPSK-20600-50RB#0



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

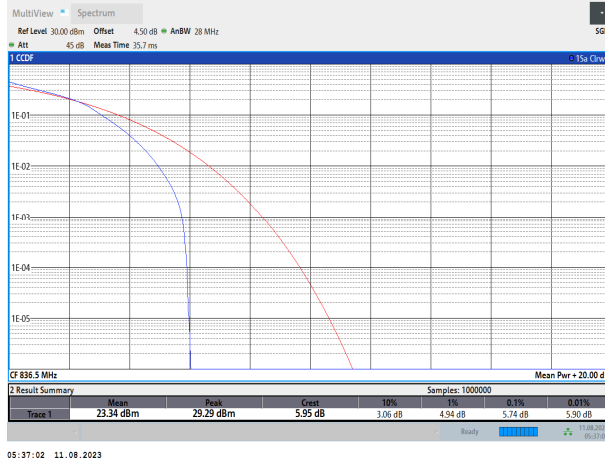


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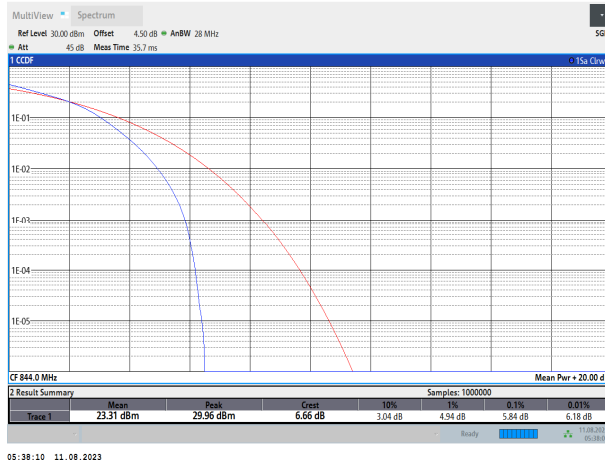
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Band5-10MHz-16QAM-20525-50RB#0



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

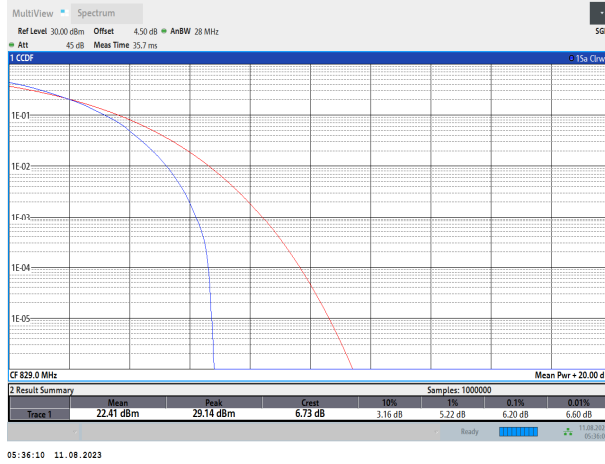


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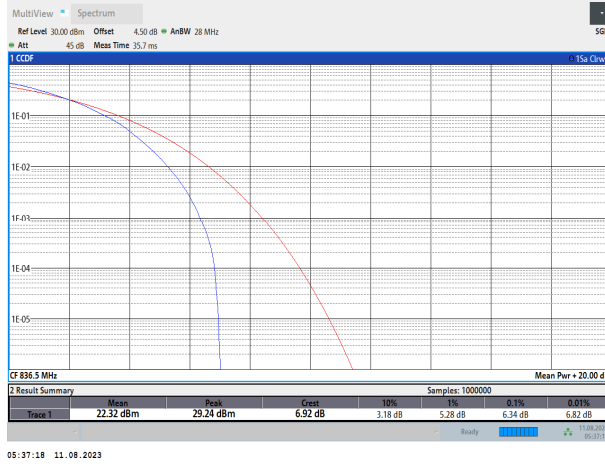
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Band5-10MHz-64QAM-20450-50RB#0



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

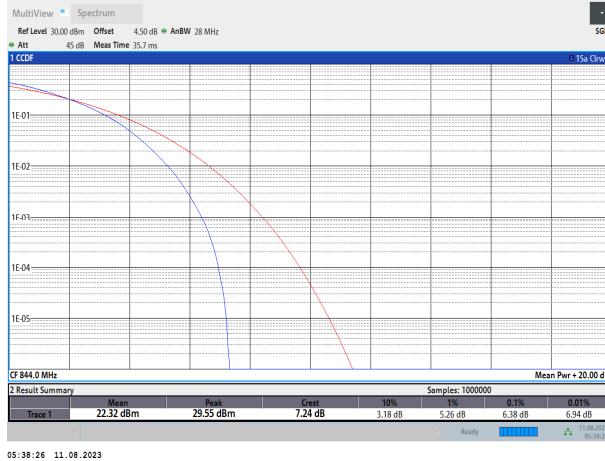


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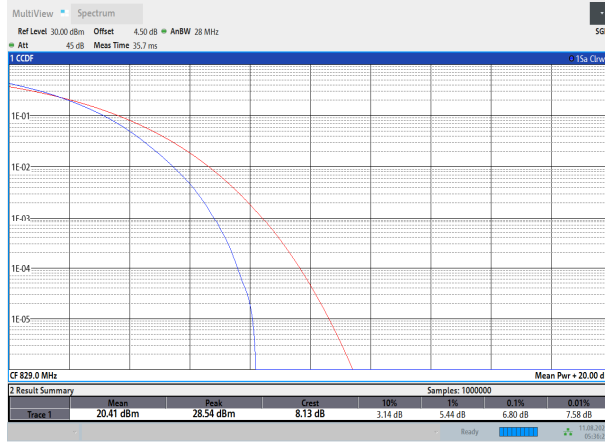
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Band5-10MHz-64QAM-20600-50RB#0



05:38:26 11.08.2023

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



05:36:27 11.08.2023



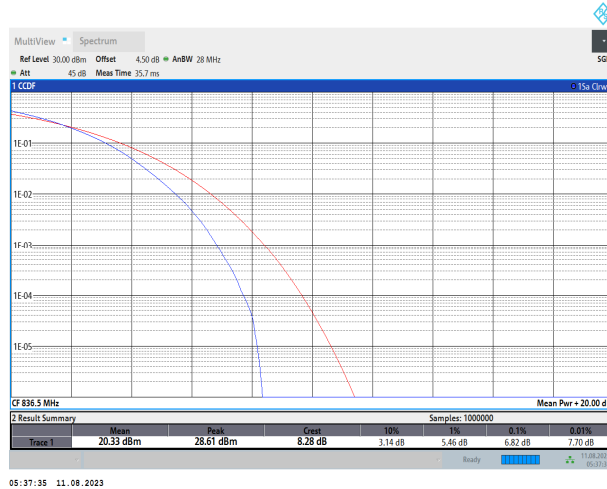
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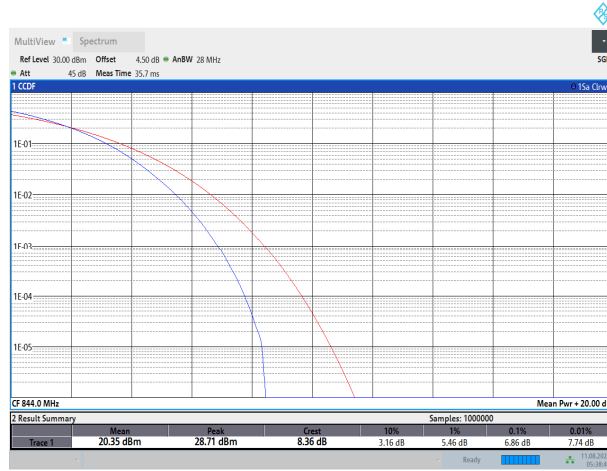
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Band5-10MHz-256QAM-20525-50RB#0



05:37:35 11.08.2023

Band5-10MHz-256QAM-20600-50RB#0



05:38:42 11.08.2023



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26dB Bandwidth and Occupied Bandwidth

Test Result

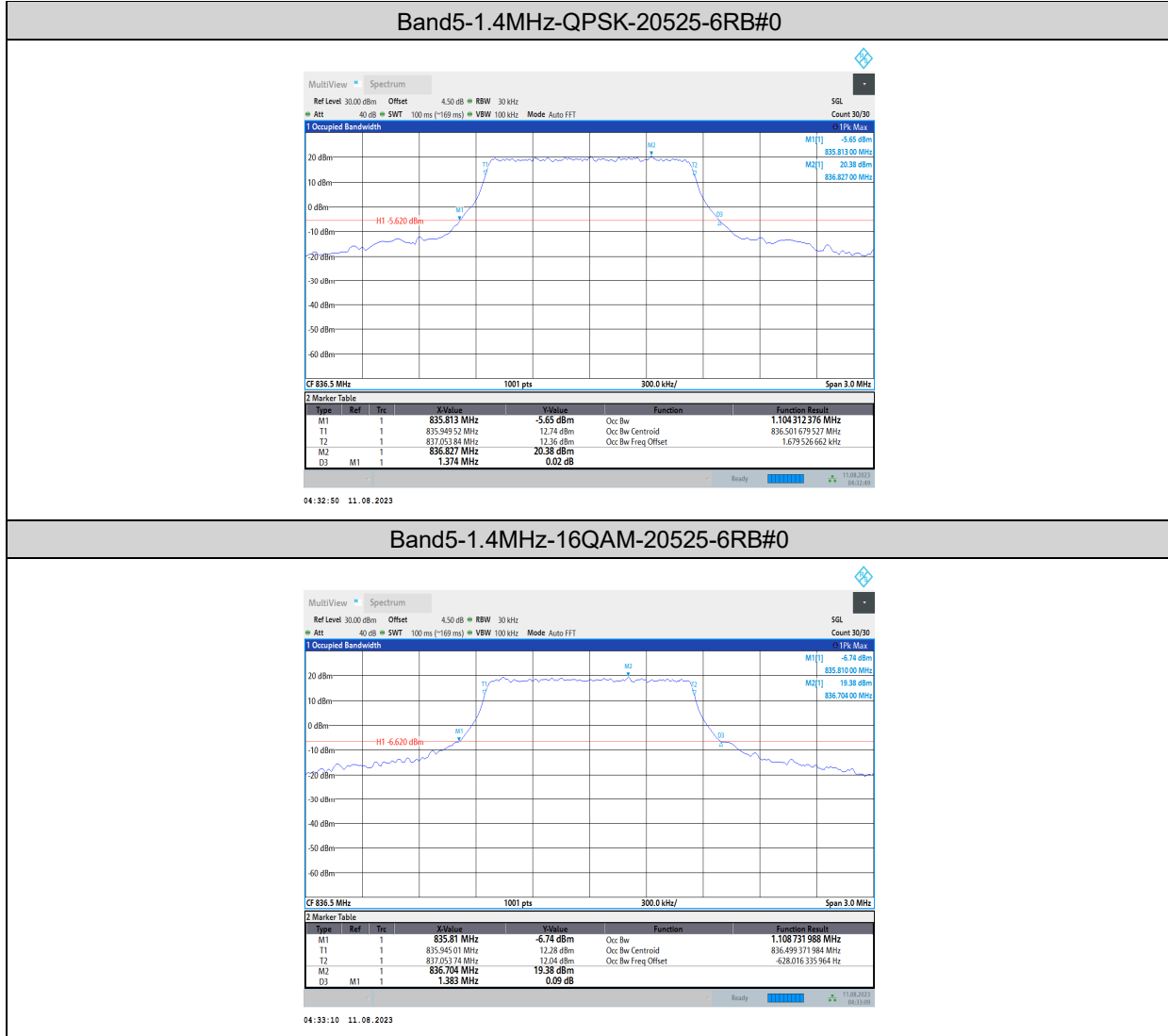
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20525	6RB#0	1.104	1.37	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.109	1.38	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.101	1.37	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	1.104	1.39	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.697	3.05	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.697	3.04	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.698	3.04	PASS
Band5	3MHz	256QAM	20525	15RB#0	2.694	3.01	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.471	5.04	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.473	4.99	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.475	5.01	PASS
Band5	5MHz	256QAM	20525	25RB#0	4.475	5.13	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.933	9.90	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.941	9.78	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.929	9.78	PASS
Band5	10MHz	256QAM	20525	50RB#0	8.937	9.80	PASS



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Test Graphs

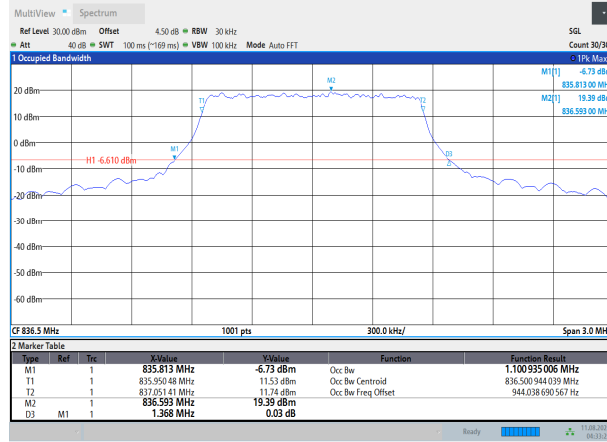


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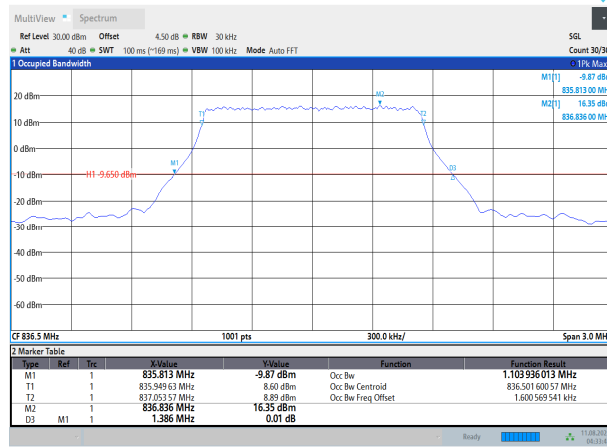
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Band5-1.4MHz-64QAM-20525-6RB#0



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

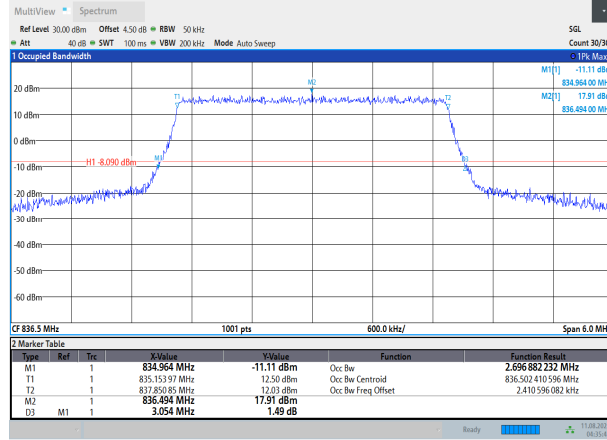


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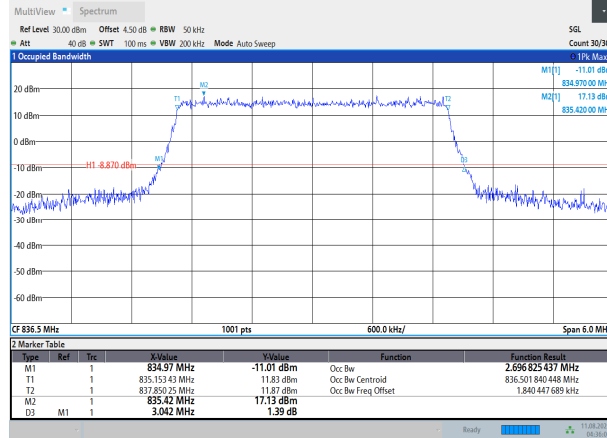
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Band5-3MHz-QPSK-20525-15RB#0



04:35:46 11.08.2023

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



04:36:04 11.08.2023

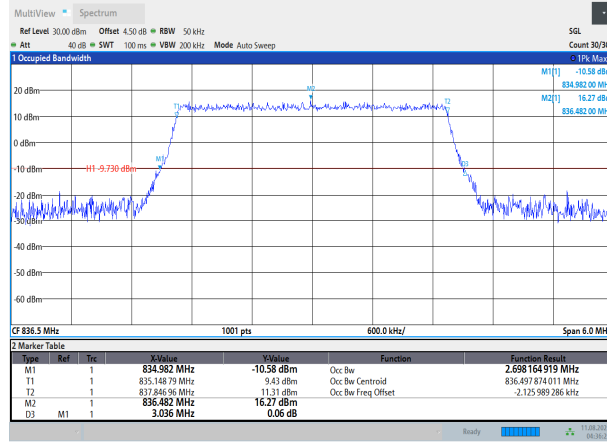


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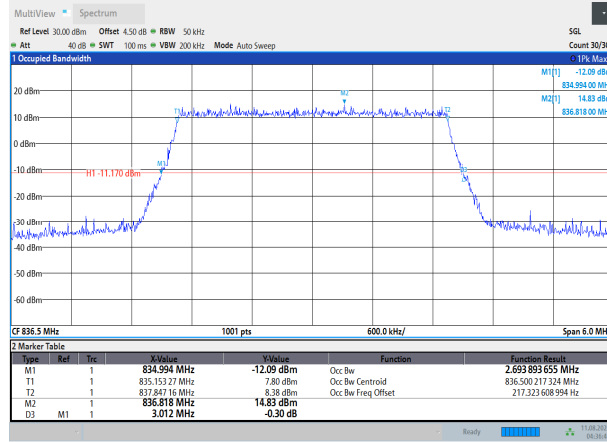
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Band5-3MHz-64QAM-20525-15RB#0



04:36:23 11.08.2023

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



04:36:41 11.08.2023

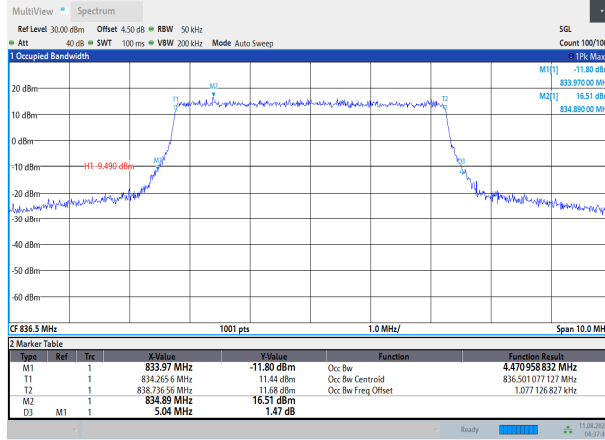


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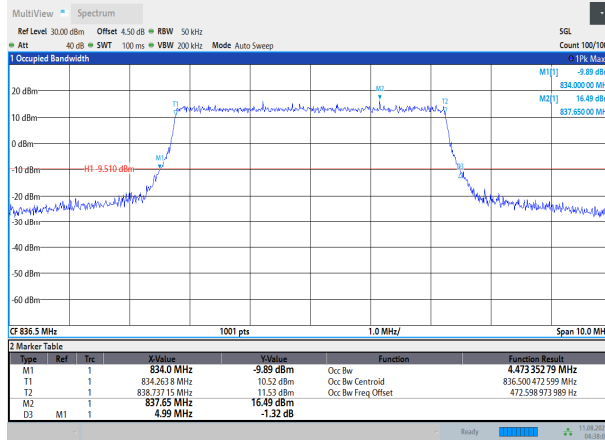
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Band5-5MHz-QPSK-20525-25RB#0



04:37:42 11.08.2023

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



04:38:08 11.08.2023

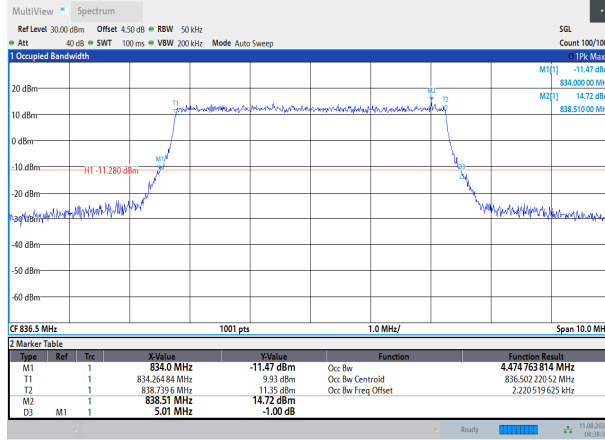


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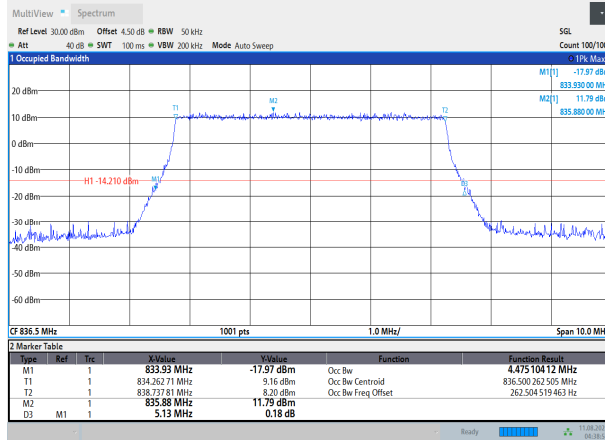
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Band5-5MHz-64QAM-20525-25RB#0



04:38:34 11.08.2023

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



04:38:59 11.08.2023

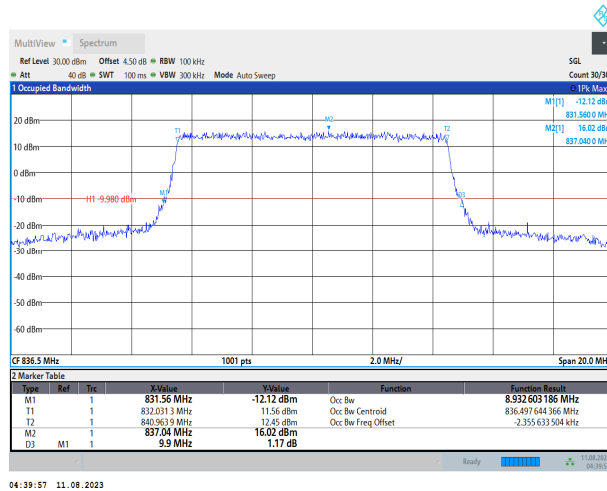


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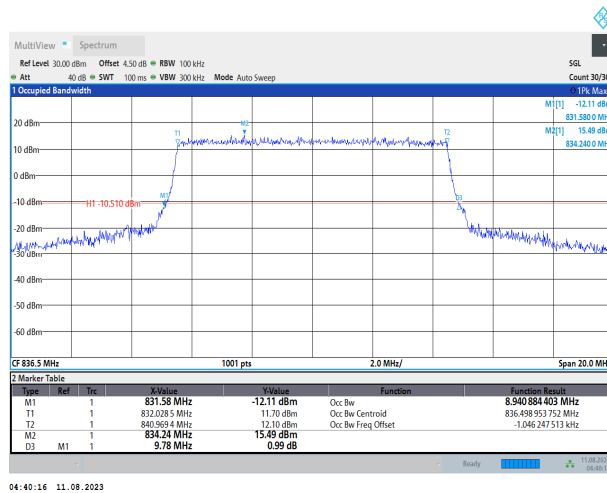
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Band5-10MHz-QPSK-20525-50RB#0



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

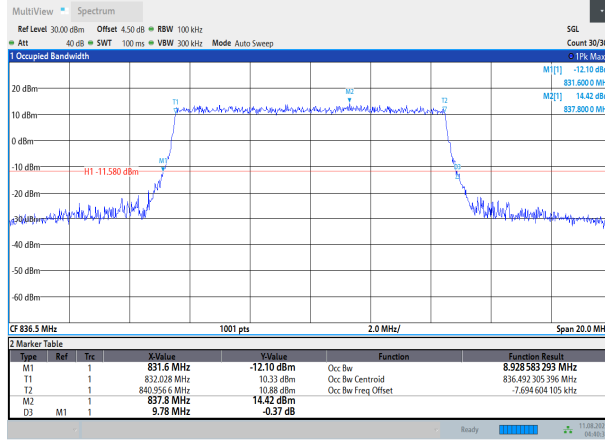


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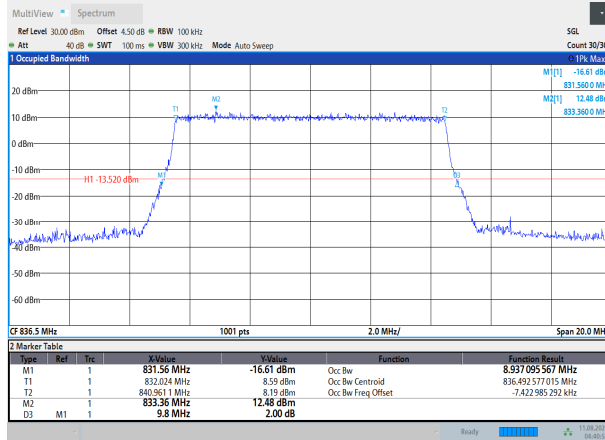
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Band5-10MHz-64QAM-20525-50RB#0



04:40:35 11.08.2023

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



04:40:53 11.08.2023



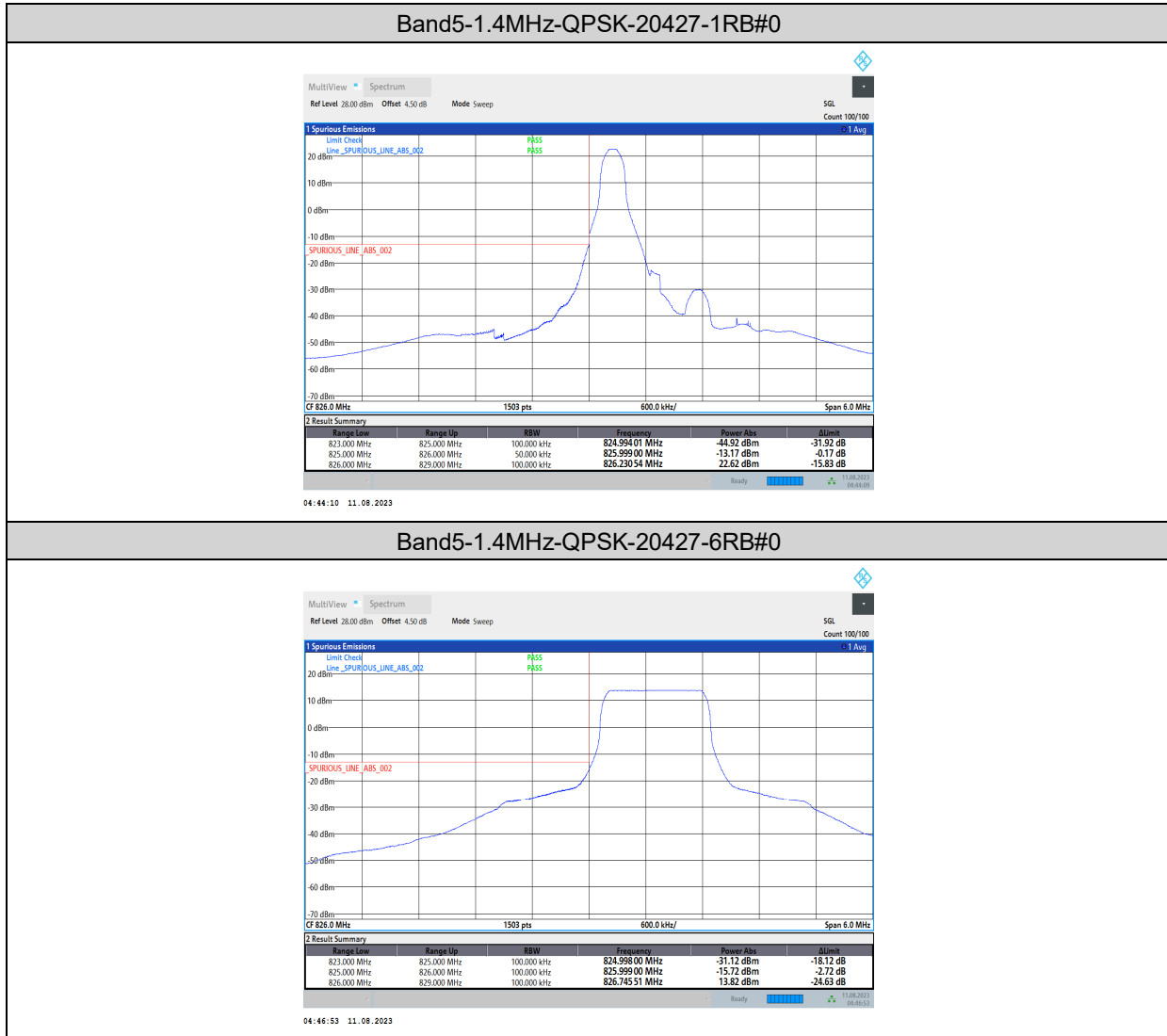
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Band Edge

Test Graphs

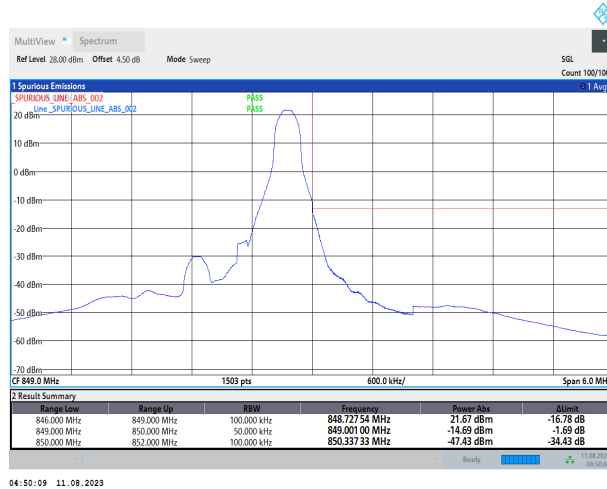


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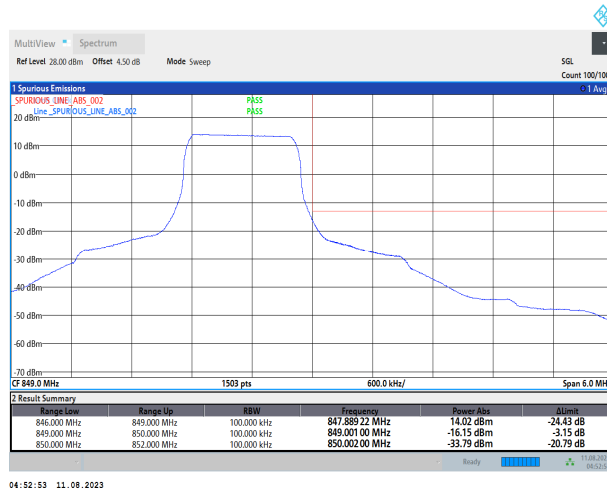
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Band5-1.4MHz-QPSK-20643-1RB#5



04:50:09 11.08.2023

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



04:52:53 11.08.2023

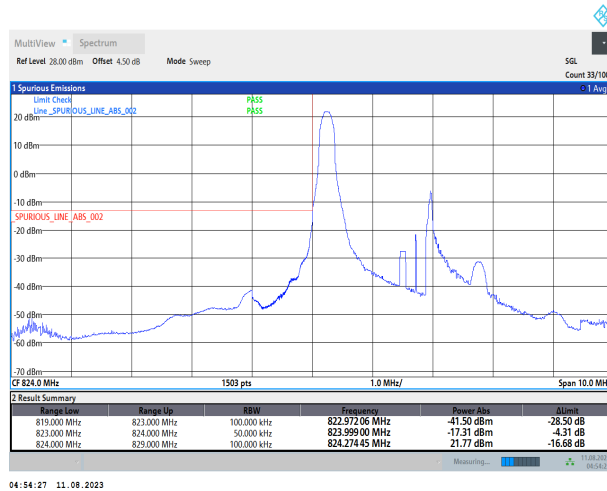


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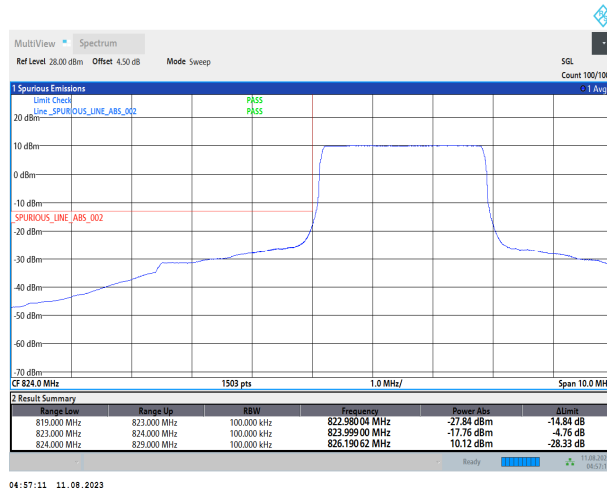
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Band5-3MHz-QPSK-20415-1RB#0



04:54:27 11.08.2023

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



04:57:11 11.08.2023

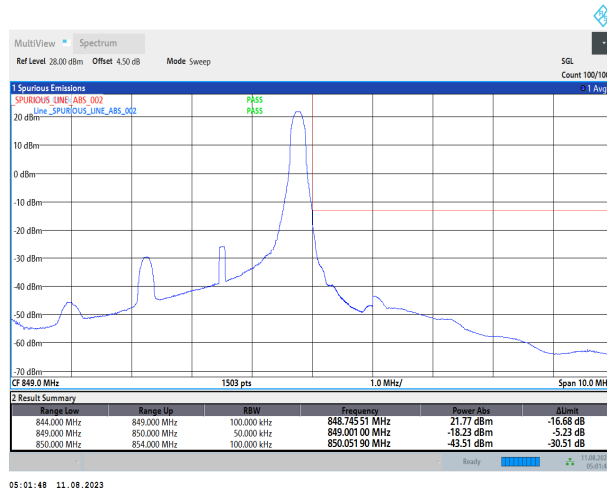


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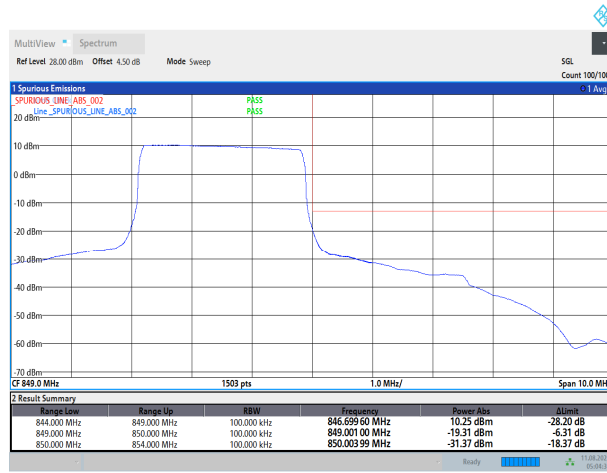
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Band5-3MHz-QPSK-20635-1RB#14



05:01:48 11.08.2023

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



05:04:31 11.08.2023

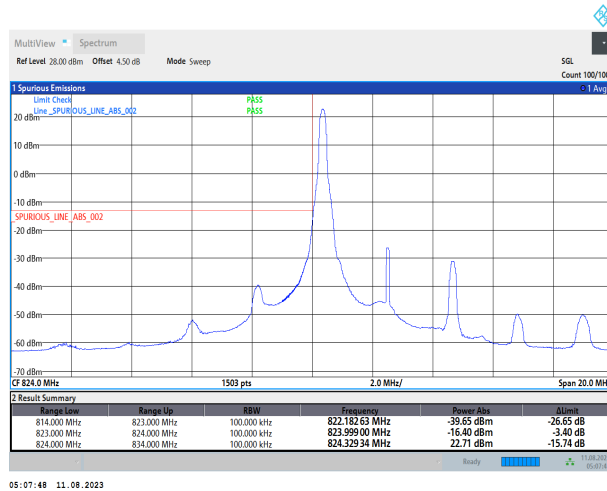


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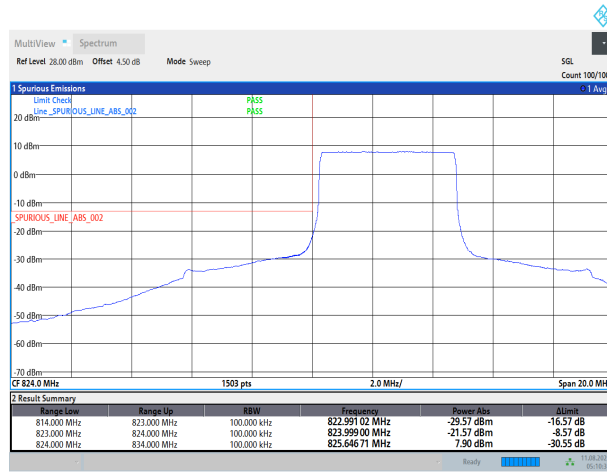
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Band5-5MHz-QPSK-20425-1RB#0



05:07:48 11.08.2023

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



05:10:31 11.08.2023

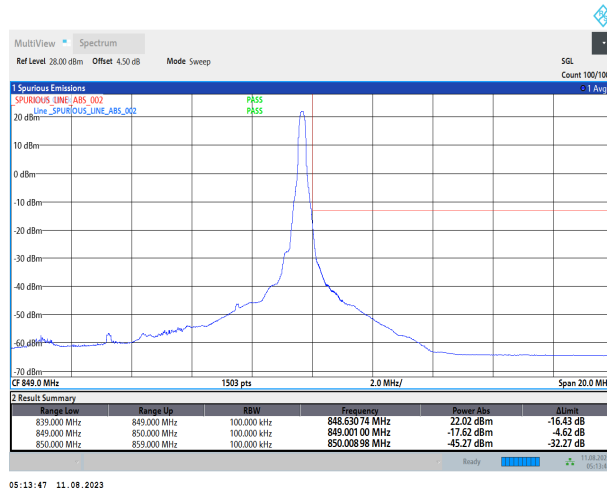


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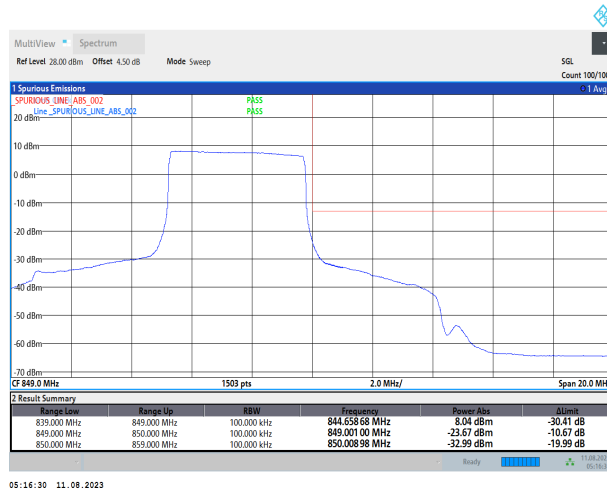
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Band5-5MHz-QPSK-20625-1RB#24



05:13:47 11.08.2023

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



05:16:30 11.08.2023

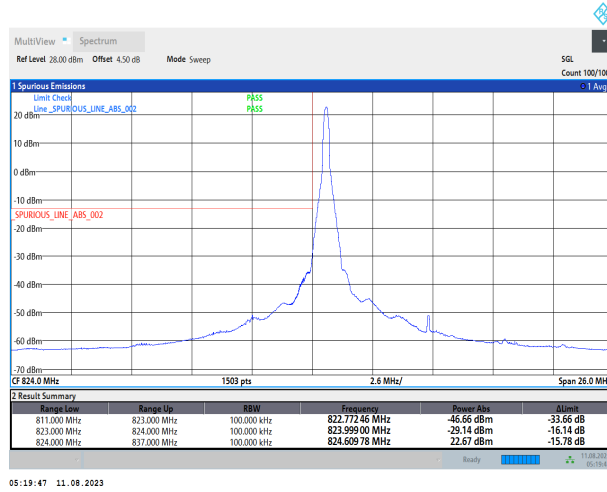


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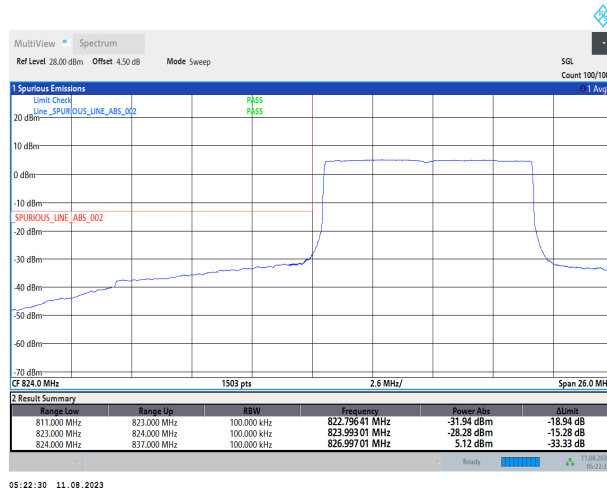
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Band5-10MHz-QPSK-20450-1RB#0



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

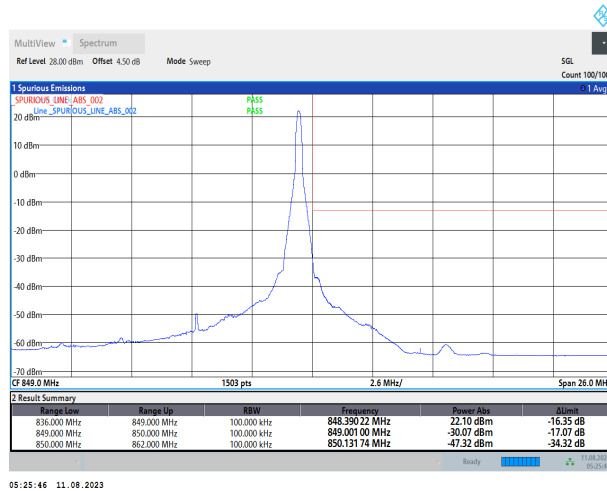


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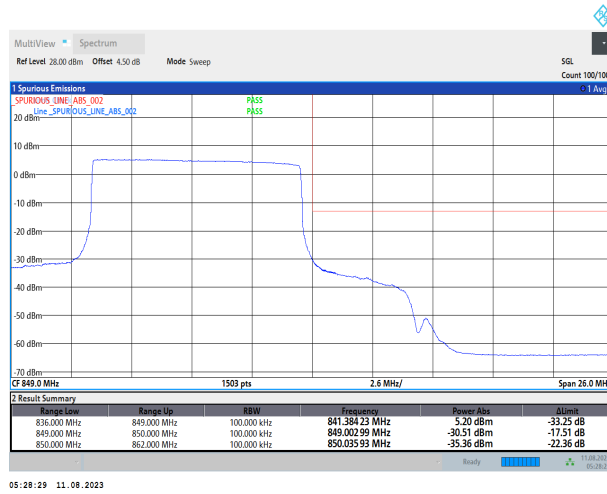
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Band5-10MHz-QPSK-20600-1RB#49



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



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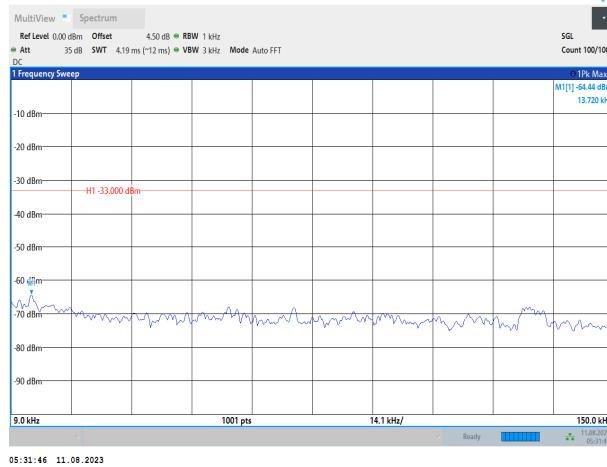
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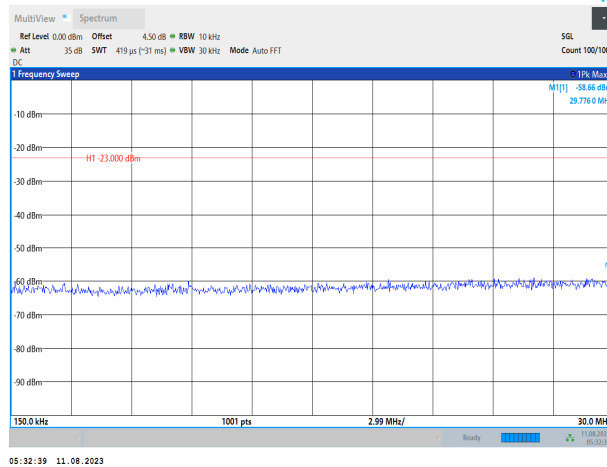
Conducted Spurious Emission

Test Graphs

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



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

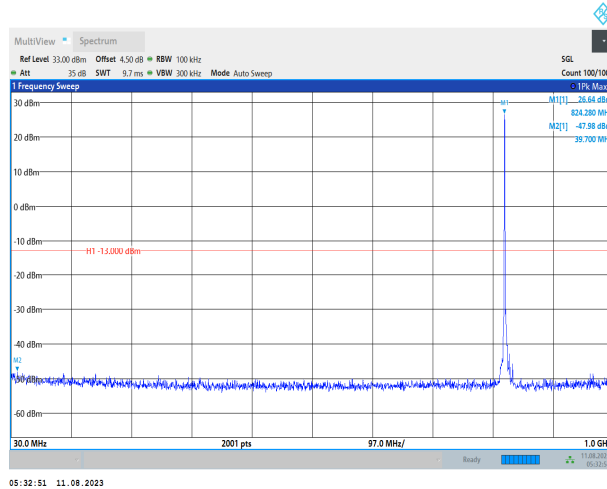


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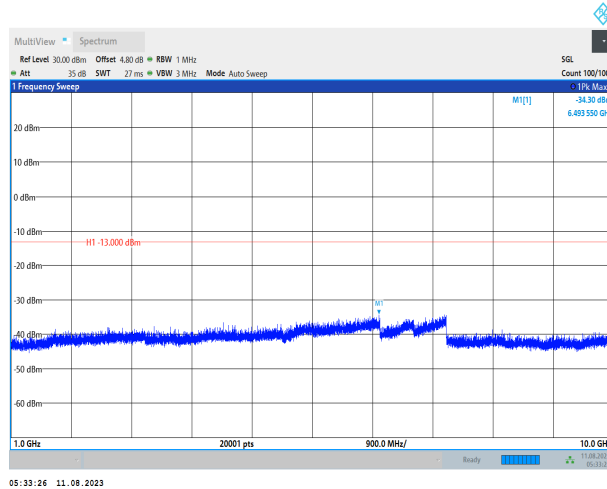
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



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

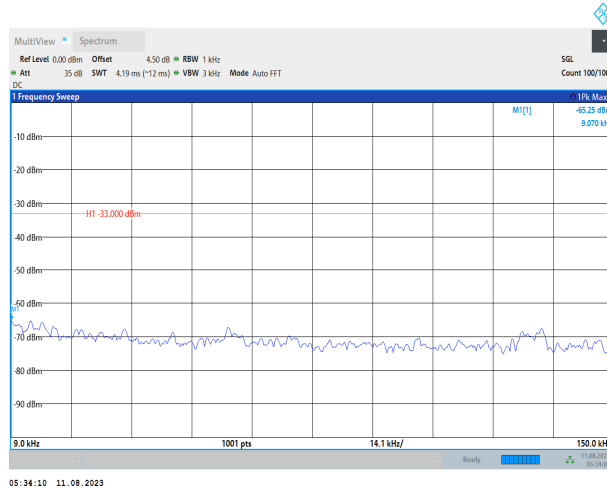


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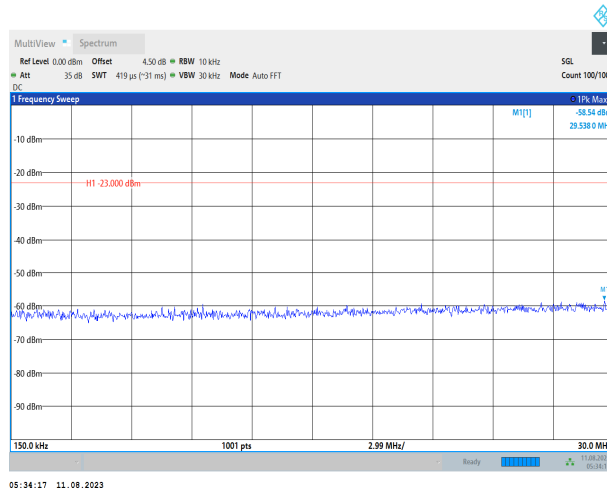
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



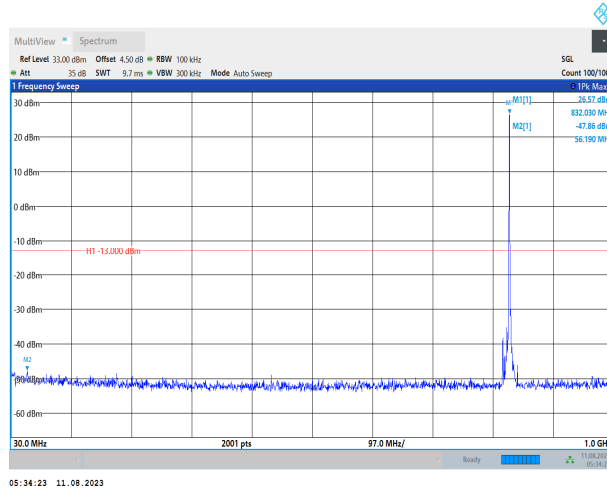
Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



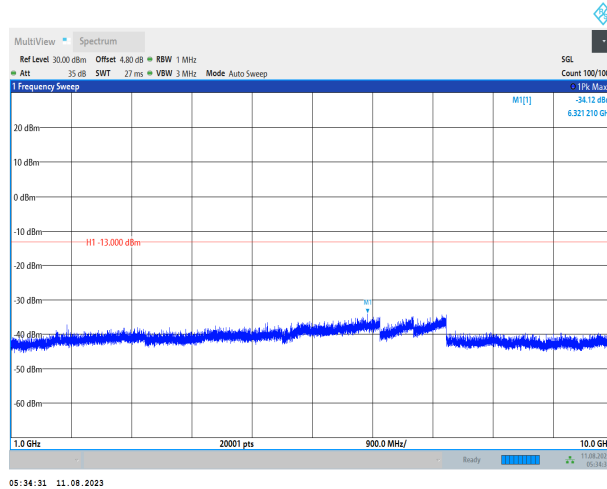
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



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

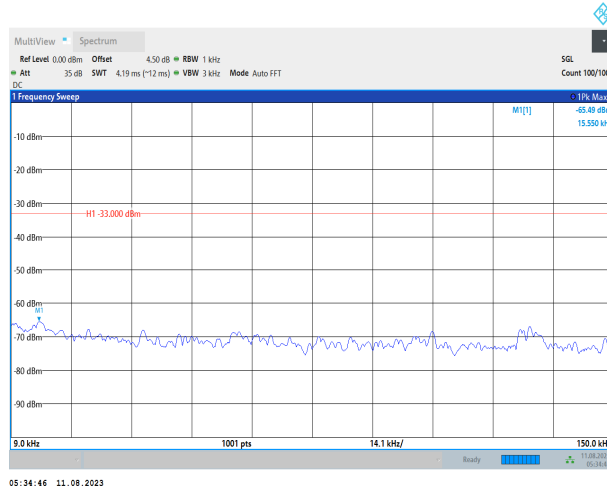


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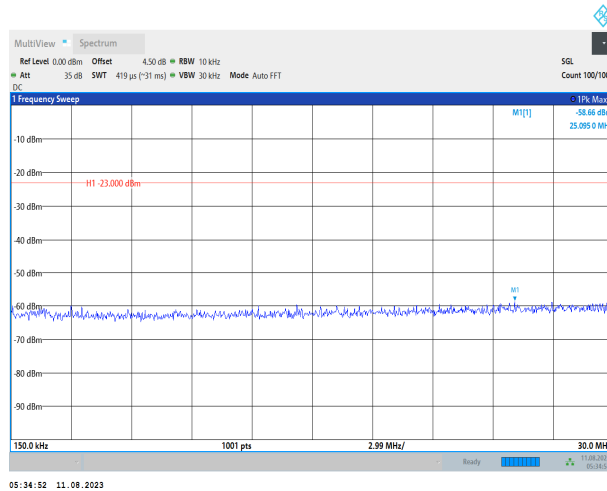
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



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

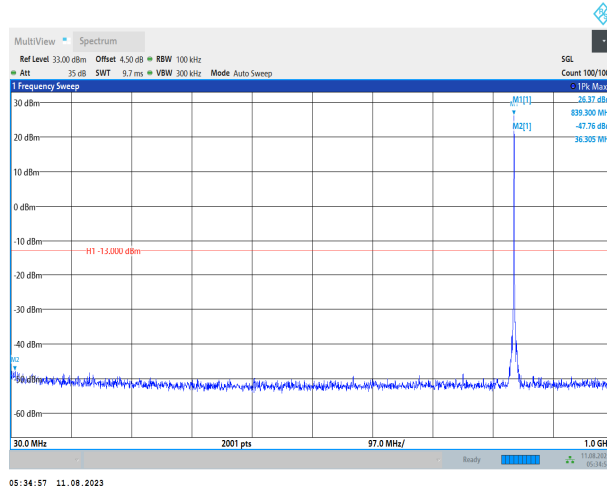


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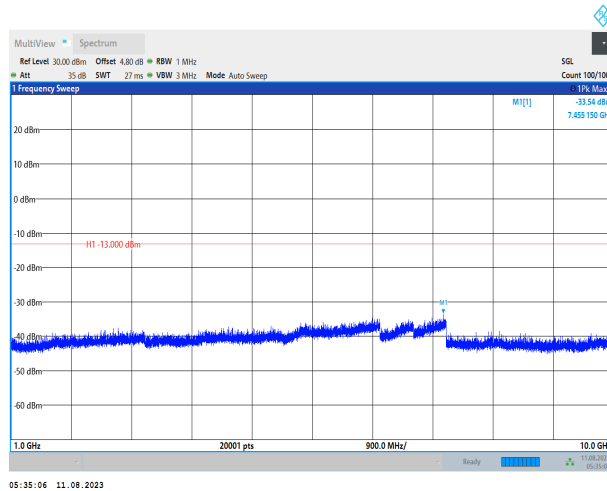
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band5_ TM1

Test Channel = Low ANT0

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1800	43.86	-48.22	25.27	-74.35	-13.00	61.35	245	360	Horizontal
2	2473.7700	43.08	-47.32	27.23	-72.27	-13.00	59.27	186	4	Horizontal
3	3298.3600	42.47	-46.68	28.48	-70.99	-13.00	57.99	136	4	Horizontal
4	4122.9500	41.07	-45.91	29.40	-70.71	-13.00	57.71	261	159	Horizontal
5	4947.5400	41.42	-45.69	31.29	-68.24	-13.00	55.24	145	290	Horizontal
6	5772.1300	40.43	-44.64	32.65	-66.81	-13.00	53.81	182	26	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	1649.1800	43.15	-48.22	25.27	-75.06	-13.00	62.06	245	56	Vertical
2	2473.7700	43.15	-47.32	27.23	-72.20	-13.00	59.20	186	136	Vertical
3	3298.3600	42.29	-46.68	28.48	-71.17	-13.00	58.17	261	97	Vertical
4	4122.9500	40.75	-45.91	29.40	-71.03	-13.00	58.03	142	268	Vertical
5	4947.5400	41.68	-45.69	31.29	-67.98	-13.00	54.98	136	322	Vertical
6	5772.1300	39.80	-44.64	32.65	-67.44	-13.00	54.44	251	150	Vertical



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Test Band = LTE Band5_ TM1

Test Channel = Mid ANT0

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.1800	44.99	-48.20	25.30	-73.18	-13.00	60.18	245	263	Horizontal
2	2496.2700	42.94	-47.28	27.29	-72.31	-13.00	59.31	176	355	Horizontal
3	3328.3600	42.35	-46.64	28.50	-71.05	-13.00	58.05	261	277	Horizontal
4	4160.4500	40.64	-45.94	29.49	-71.07	-13.00	58.07	158	341	Horizontal
5	4992.5400	41.29	-45.79	31.38	-68.38	-13.00	55.38	193	3	Horizontal
6	5824.6300	40.45	-44.74	32.67	-66.88	-13.00	53.88	251	158	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	1664.1800	43.21	-48.20	25.30	-74.96	-13.00	61.96	245	1	Vertical
2	2496.2700	42.64	-47.28	27.29	-72.61	-13.00	59.61	175	294	Vertical
3	3328.3600	42.45	-46.64	28.50	-70.95	-13.00	57.95	163	10	Vertical
4	4160.4500	40.50	-45.94	29.49	-71.21	-13.00	58.21	256	308	Vertical
5	4992.5400	40.58	-45.79	31.38	-69.09	-13.00	56.09	192	30	Vertical
6	5824.6300	39.39	-44.74	32.67	-67.94	-13.00	54.94	145	335	Vertical



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Test Band = LTE Band5_ TM1

Test Channel = High ANT0

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	47.51	-48.18	25.32	-70.62	-13.00	57.62	241	183	Horizontal
2	2518.7700	42.96	-47.21	27.34	-72.17	-13.00	59.17	175	301	Horizontal
3	3358.3600	42.36	-46.60	28.52	-70.98	-13.00	57.98	156	360	Horizontal
4	4197.9500	40.78	-45.96	29.58	-70.86	-13.00	57.86	236	3	Horizontal
5	5037.5400	41.10	-45.65	31.49	-68.32	-13.00	55.32	256	359	Horizontal
6	5887.1300	40.07	-44.93	32.68	-67.44	-13.00	54.44	162	275	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	1679.1800	43.12	-48.18	25.32	-75.01	-13.00	62.01	244	96	Vertical
2	2518.7700	42.71	-47.21	27.34	-72.42	-13.00	59.42	178	1	Vertical
3	3358.3600	41.94	-46.60	28.52	-71.40	-13.00	58.40	186	55	Vertical
4	4197.9500	40.64	-45.96	29.58	-71.00	-13.00	58.00	265	175	Vertical
5	5037.5400	40.43	-45.65	31.49	-68.99	-13.00	55.99	145	55	Vertical
6	5887.1300	39.80	-44.93	32.68	-67.71	-13.00	54.71	192	0	Vertical



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Test Band = LTE Band5_ TM1

Test Channel = Low ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1800	43.71	-48.22	25.27	-74.50	-13.00	61.50	244	225	Horizontal
2	2473.7700	42.57	-47.32	27.23	-72.78	-13.00	59.78	158	3	Horizontal
3	3298.3600	42.11	-46.68	28.48	-71.35	-13.00	58.35	176	26	Horizontal
4	4122.9500	41.17	-45.91	29.40	-70.61	-13.00	57.61	235	53	Horizontal
5	4947.5400	41.18	-45.69	31.29	-68.48	-13.00	55.48	145	145	Horizontal
6	5772.1300	40.00	-44.64	32.65	-67.24	-13.00	54.24	169	276	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	1649.1800	43.05	-48.22	25.27	-75.16	-13.00	62.16	100	347	Vertical
2	2473.7700	42.47	-47.32	27.23	-72.88	-13.00	59.88	100	43	Vertical
3	3298.3600	42.52	-46.68	28.48	-70.94	-13.00	57.94	100	356	Vertical
4	4122.9500	41.06	-45.91	29.40	-70.72	-13.00	57.72	100	228	Vertical
5	4947.5400	41.20	-45.69	31.29	-68.46	-13.00	55.46	100	43	Vertical
6	5772.1300	39.64	-44.64	32.65	-67.60	-13.00	54.60	100	228	Vertical



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Test Band = LTE Band5_ TM1

Test Channel = Mid ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.1800	43.91	-48.20	25.30	-74.26	-13.00	61.26	245	250	Horizontal
2	2496.2700	42.70	-47.28	27.29	-72.55	-13.00	59.55	175	224	Horizontal
3	3328.3600	42.07	-46.64	28.50	-71.33	-13.00	58.33	169	25	Horizontal
4	4160.4500	41.06	-45.94	29.49	-70.65	-13.00	57.65	158	342	Horizontal
5	4992.5400	40.81	-45.79	31.38	-68.86	-13.00	55.86	192	92	Horizontal
6	5824.6300	39.91	-44.74	32.67	-67.42	-13.00	54.42	145	53	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	1664.1800	43.96	-48.20	25.30	-74.21	-13.00	61.21	248	1	Vertical
2	2496.2700	42.56	-47.28	27.29	-72.69	-13.00	59.69	178	0	Vertical
3	3328.3600	42.80	-46.64	28.50	-70.60	-13.00	57.60	186	307	Vertical
4	4160.4500	41.18	-45.94	29.49	-70.53	-13.00	57.53	265	201	Vertical
5	4992.5400	40.98	-45.79	31.38	-68.69	-13.00	55.69	142	122	Vertical
6	5824.6300	40.03	-44.74	32.67	-67.30	-13.00	54.30	153	1	Vertical



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Test Band = LTE Band5_ TM1

Test Channel = High ANT1

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	48.99	-48.18	25.32	-69.14	-13.00	56.14	242	263	Horizontal
2	2518.7700	43.29	-47.21	27.34	-71.84	-13.00	58.84	136	224	Horizontal
3	3358.3600	42.28	-46.60	28.52	-71.06	-13.00	58.06	256	359	Horizontal
4	4197.9500	40.59	-45.96	29.58	-71.05	-13.00	58.05	126	330	Horizontal
5	5037.5400	40.09	-45.65	31.49	-69.33	-13.00	56.33	291	145	Horizontal
6	5887.1300	40.00	-44.93	32.68	-67.51	-13.00	54.51	188	105	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	1679.1800	42.95	-48.18	25.32	-75.18	-13.00	62.18	241	230	Vertical
2	2518.7700	42.97	-47.21	27.34	-72.16	-13.00	59.16	132	0	Vertical
3	3358.3600	42.33	-46.60	28.52	-71.01	-13.00	58.01	115	44	Vertical
4	4197.9500	40.71	-45.96	29.58	-70.93	-13.00	57.93	125	0	Vertical
5	5037.5400	40.15	-45.65	31.49	-69.27	-13.00	56.27	148	177	Vertical
6	5887.1300	40.95	-44.93	32.68	-66.56	-13.00	53.56	175	135	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



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	0.10	0.000120	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	1.70	0.002032	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	1.40	0.001674	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-0.10	-0.000120	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	0.20	0.000239	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-0.20	-0.000239	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-1.00	-0.001195	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-0.90	-0.001076	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-1.80	-0.002152	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	30.50	0.036461	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-1.30	-0.001554	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-1.70	-0.002032	PASS

---End of Attachment---



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