

Report No.: SEWM2305000166RG01

Rev.: 01

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Appendix B.7

LTE Band 7



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant31:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	23.06	23.1	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.1	23.14	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.21	23.25	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.25	22.29	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.16	23.2	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.91	22.95	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.12	23.16	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.14	22.18	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.99	23.03	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.04	23.08	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.25	23.29	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.3	22.34	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.28	22.32	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.43	22.47	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.49	22.53	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.25	21.29	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.43	22.47	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.44	22.48	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.49	22.53	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.06	21.1	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.38	22.42	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.23	22.27	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.61	22.65	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.26	21.3	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#0	21.31	21.35	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#12	21.51	21.55	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#24	21.51	21.55	33.00	PASS



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Band7	5MHz	64QAM	20775	25RB#0	20.25	20.29	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#0	21.26	21.3	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#12	21.28	21.32	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#24	21.29	21.33	33.00	PASS
Band7	5MHz	64QAM	21100	25RB#0	20.15	20.19	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#0	21.4	21.44	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#12	21.32	21.36	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#24	21.62	21.66	33.00	PASS
Band7	5MHz	64QAM	21425	25RB#0	20.32	20.36	33.00	PASS
Band7	5MHz	256QAM	20775	1RB#0	18.28	18.32	33.00	PASS
Band7	5MHz	256QAM	20775	1RB#12	18.36	18.4	33.00	PASS
Band7	5MHz	256QAM	20775	1RB#24	18.41	18.45	33.00	PASS
Band7	5MHz	256QAM	20775	25RB#0	18.23	18.27	33.00	PASS
Band7	5MHz	256QAM	21100	1RB#0	18.22	18.26	33.00	PASS
Band7	5MHz	256QAM	21100	1RB#12	18.24	18.28	33.00	PASS
Band7	5MHz	256QAM	21100	1RB#24	18.29	18.33	33.00	PASS
Band7	5MHz	256QAM	21100	25RB#0	18.08	18.12	33.00	PASS
Band7	5MHz	256QAM	21425	1RB#0	18.24	18.28	33.00	PASS
Band7	5MHz	256QAM	21425	1RB#12	18.19	18.23	33.00	PASS
Band7	5MHz	256QAM	21425	1RB#24	18.26	18.3	33.00	PASS
Band7	5MHz	256QAM	21425	25RB#0	18.23	18.27	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.08	23.12	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.07	23.11	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.22	23.26	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.23	22.27	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.92	22.96	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.06	23.1	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.17	23.21	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.14	22.18	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.26	23.3	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.11	23.15	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.32	23.36	33.00	PASS



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Band7	10MHz	QPSK	21400	50RB#0	22.33	22.37	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.33	22.37	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.43	22.47	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.32	22.36	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.26	21.3	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.18	22.22	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.42	22.46	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.21	22.25	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.12	21.16	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.25	22.29	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.38	22.42	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.24	22.28	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.3	21.34	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#0	21.44	21.48	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#24	21.45	21.49	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#49	21.49	21.53	33.00	PASS
Band7	10MHz	64QAM	20800	50RB#0	20.39	20.43	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#0	21.27	21.31	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#24	21.25	21.29	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#49	21.41	21.45	33.00	PASS
Band7	10MHz	64QAM	21100	50RB#0	20.14	20.18	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#0	21.46	21.5	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#24	21.42	21.46	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#49	21.5	21.54	33.00	PASS
Band7	10MHz	64QAM	21400	50RB#0	20.37	20.41	33.00	PASS
Band7	10MHz	256QAM	20800	1RB#0	18.37	18.41	33.00	PASS
Band7	10MHz	256QAM	20800	1RB#24	18.3	18.34	33.00	PASS
Band7	10MHz	256QAM	20800	1RB#49	18.44	18.48	33.00	PASS
Band7	10MHz	256QAM	20800	50RB#0	18.29	18.33	33.00	PASS
Band7	10MHz	256QAM	21100	1RB#0	18.14	18.18	33.00	PASS
Band7	10MHz	256QAM	21100	1RB#24	18.31	18.35	33.00	PASS
Band7	10MHz	256QAM	21100	1RB#49	18.34	18.38	33.00	PASS



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Band7	10MHz	256QAM	21100	50RB#0	18.14	18.18	33.00	PASS
Band7	10MHz	256QAM	21400	1RB#0	18.48	18.52	33.00	PASS
Band7	10MHz	256QAM	21400	1RB#24	18.34	18.38	33.00	PASS
Band7	10MHz	256QAM	21400	1RB#49	18.44	18.48	33.00	PASS
Band7	10MHz	256QAM	21400	50RB#0	18.26	18.3	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.85	22.89	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.96	23	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.03	23.07	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.2	22.24	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.89	22.93	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.92	22.96	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.95	22.99	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.98	22.02	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.06	23.1	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.99	23.03	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.02	23.06	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.23	22.27	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.3	22.34	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.18	22.22	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.34	22.38	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.17	21.21	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.15	22.19	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.18	22.22	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.16	22.2	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.02	21.06	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.27	22.31	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.37	22.41	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.37	22.41	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.2	21.24	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#0	21.15	21.19	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#38	21.23	21.27	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#74	21.33	21.37	33.00	PASS



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Band7	15MHz	64QAM	20825	75RB#0	20.16	20.2	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#0	21.01	21.05	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#38	21.14	21.18	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#74	20.98	21.02	33.00	PASS
Band7	15MHz	64QAM	21100	75RB#0	20	20.04	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#0	21.17	21.21	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#38	21.19	21.23	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#74	21.19	21.23	33.00	PASS
Band7	15MHz	64QAM	21375	75RB#0	20.26	20.3	33.00	PASS
Band7	15MHz	256QAM	20825	1RB#0	18.04	18.08	33.00	PASS
Band7	15MHz	256QAM	20825	1RB#38	18.18	18.22	33.00	PASS
Band7	15MHz	256QAM	20825	1RB#74	18.23	18.27	33.00	PASS
Band7	15MHz	256QAM	20825	75RB#0	18.17	18.21	33.00	PASS
Band7	15MHz	256QAM	21100	1RB#0	18.15	18.19	33.00	PASS
Band7	15MHz	256QAM	21100	1RB#38	18.03	18.07	33.00	PASS
Band7	15MHz	256QAM	21100	1RB#74	18.08	18.12	33.00	PASS
Band7	15MHz	256QAM	21100	75RB#0	18.03	18.07	33.00	PASS
Band7	15MHz	256QAM	21375	1RB#0	18.16	18.2	33.00	PASS
Band7	15MHz	256QAM	21375	1RB#38	18.14	18.18	33.00	PASS
Band7	15MHz	256QAM	21375	1RB#74	18.24	18.28	33.00	PASS
Band7	15MHz	256QAM	21375	75RB#0	18.23	18.27	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.83	22.87	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.88	22.92	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.96	23	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.17	22.21	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.02	23.06	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.85	22.89	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.9	22.94	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.95	21.99	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.9	22.94	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.87	22.91	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.94	22.98	33.00	PASS



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Band7	20MHz	QPSK	21350	100RB#0	22.17	22.21	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.15	22.19	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.31	22.35	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.31	22.35	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.23	21.27	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.22	22.26	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.09	22.13	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.12	22.16	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.02	21.06	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.02	22.06	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.14	22.18	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.16	22.2	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.12	21.16	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#0	21.15	21.19	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#49	21.32	21.36	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#99	21.29	21.33	33.00	PASS
Band7	20MHz	64QAM	20850	100RB#0	20.23	20.27	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#0	21.05	21.09	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#49	21.16	21.2	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#99	21.19	21.23	33.00	PASS
Band7	20MHz	64QAM	21100	100RB#0	20.05	20.09	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#0	21.18	21.22	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#49	21.2	21.24	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#99	21.2	21.24	33.00	PASS
Band7	20MHz	64QAM	21350	100RB#0	20.18	20.22	33.00	PASS
Band7	20MHz	256QAM	20850	1RB#0	18.11	18.15	33.00	PASS
Band7	20MHz	256QAM	20850	1RB#49	18.07	18.11	33.00	PASS
Band7	20MHz	256QAM	20850	1RB#99	18.26	18.3	33.00	PASS
Band7	20MHz	256QAM	20850	100RB#0	18.22	18.26	33.00	PASS
Band7	20MHz	256QAM	21100	1RB#0	18.15	18.19	33.00	PASS
Band7	20MHz	256QAM	21100	1RB#49	18.07	18.11	33.00	PASS
Band7	20MHz	256QAM	21100	1RB#99	18.03	18.07	33.00	PASS



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Report No.: SEWM2305000166RG01

Rev.: 01

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Band7	20MHz	256QAM	21100	100RB#0	18.05	18.09	33.00	PASS
Band7	20MHz	256QAM	21350	1RB#0	18.18	18.22	33.00	PASS
Band7	20MHz	256QAM	21350	1RB#49	18.1	18.14	33.00	PASS
Band7	20MHz	256QAM	21350	1RB#99	18.17	18.21	33.00	PASS
Band7	20MHz	256QAM	21350	100RB#0	18.15	18.19	33.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	5.14	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.16	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.28	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.84	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.72	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.74	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.42	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.34	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.46	13	PASS
Band7	20MHz	256QAM	20850	100RB#0	6.42	13	PASS
Band7	20MHz	256QAM	21100	100RB#0	6.40	13	PASS
Band7	20MHz	256QAM	21350	100RB#0	6.38	13	PASS



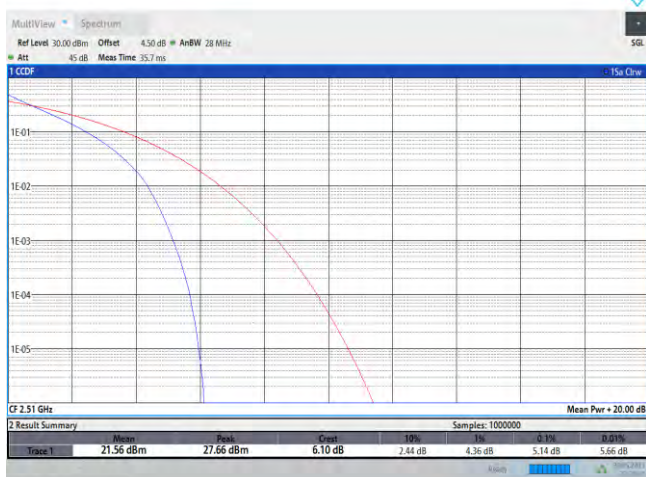
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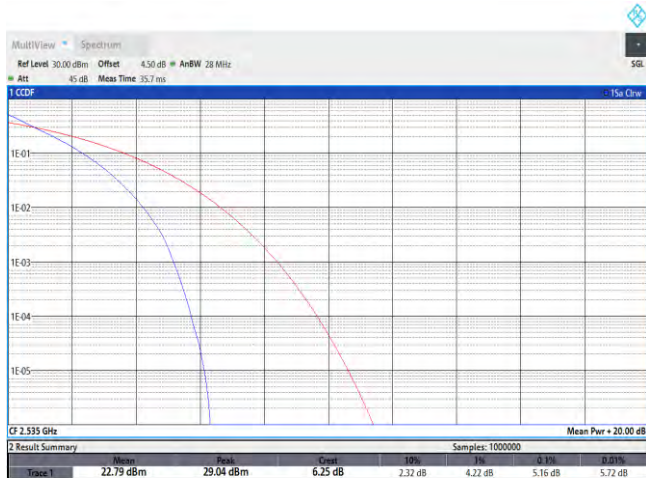
Test Graphs

Band7-20MHz-QPSK-20850-100RB#0



23:24:00 30.05.2023

Band7-20MHz-QPSK-21100-100RB#0



02:41:39 20.05.2023

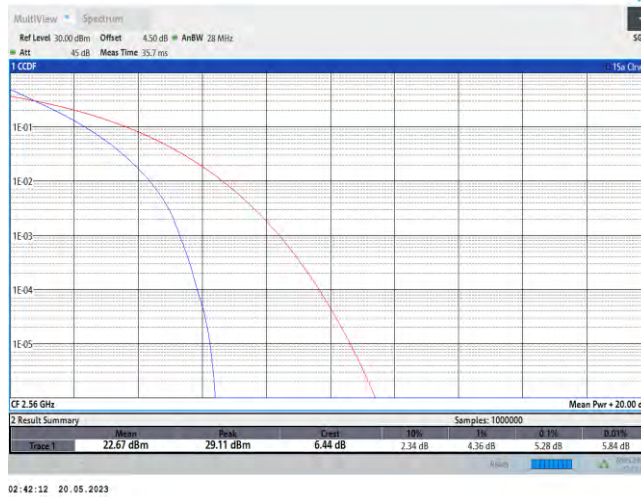


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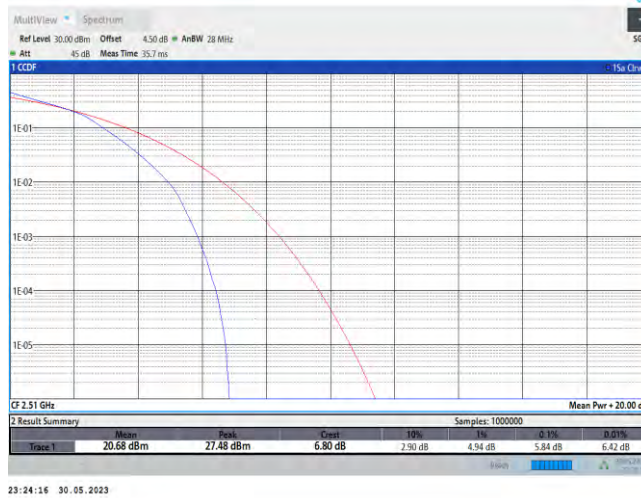
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Band7-20MHz-QPSK-21350-100RB#0



02:42:12 20 05 2023

Band7-20MHz-16QAM-20850-100RB#0



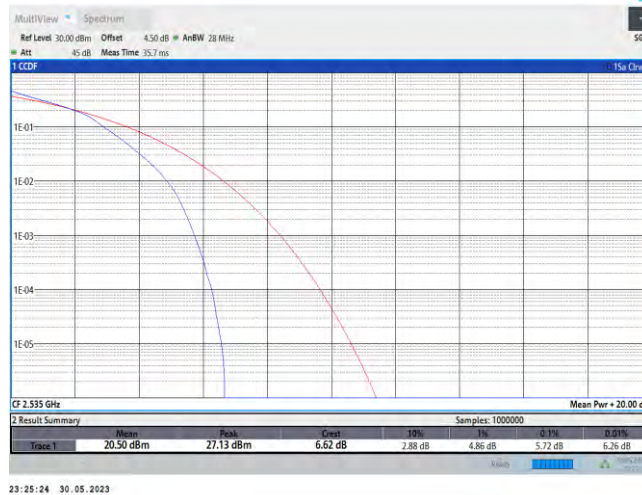
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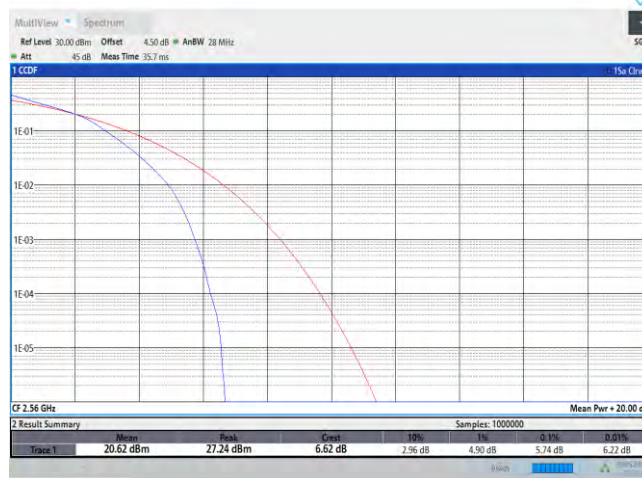
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Band7-20MHz-16QAM-21100-100RB#0



23:25:24 30.05.2023

Band7-20MHz-16QAM-21350-100RB#0



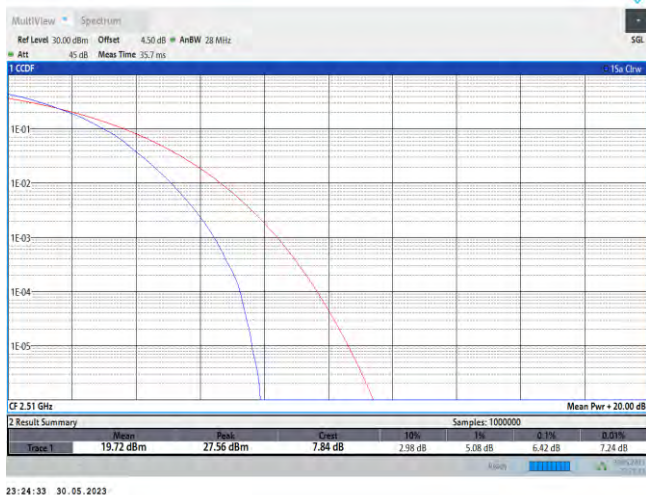
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Band7-20MHz-64QAM-20850-100RB#0



23:24:33 30.05.2023

Band7-20MHz-64QAM-21100-100RB#0



23:25:41 30.05.2023



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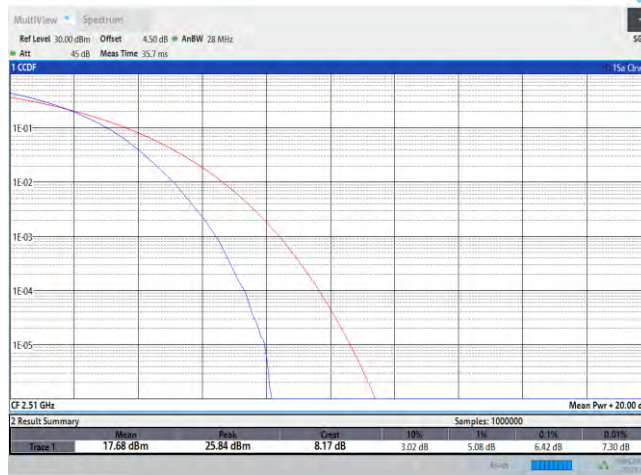
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Band7-20MHz-64QAM-21350-100RB#0



23:26:49 30.05.2023

Band7-20MHz-256QAM-20850-100RB#0



23:24:49 30.05.2023



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Band7-20MHz-256QAM-21100-100RB#0



23:25:57 30.05.2023

Band7-20MHz-256QAM-21350-100RB#0



23:27:05 30.05.2023



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band7	20MHz	QPSK	21100	100RB#0	PASS	PASS
Band7	20MHz	16QAM	21100	100RB#0	PASS	PASS
Band7	20MHz	64QAM	21100	100RB#0	PASS	PASS
Band7	20MHz	256QAM	21100	100RB#0	PASS	PASS



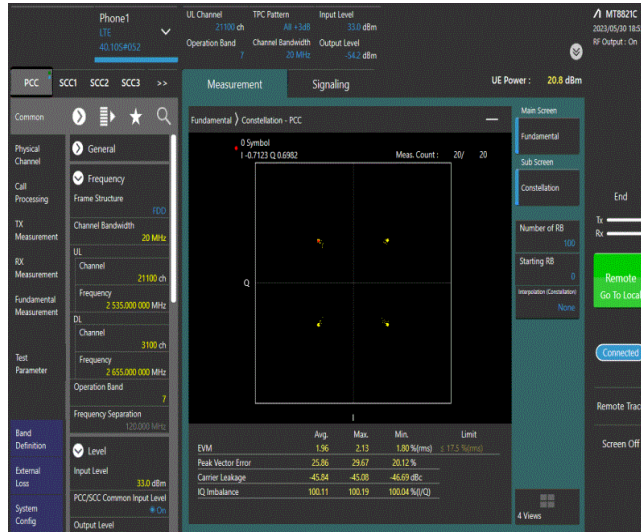
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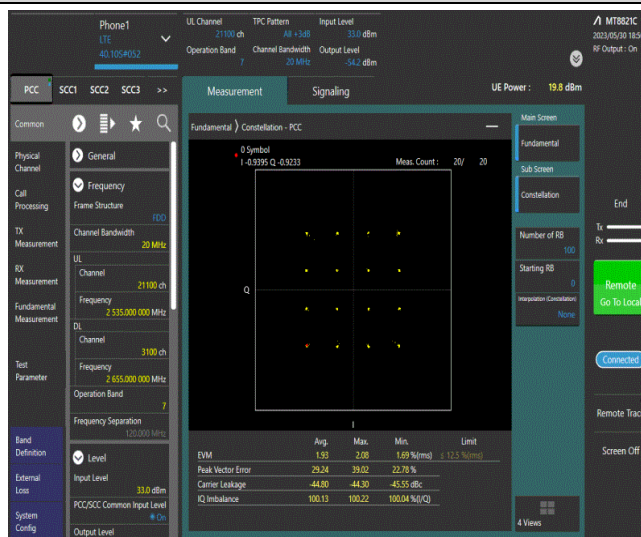
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Test Graphs

Band7-20MHz-QPSK-21100-100RB#0



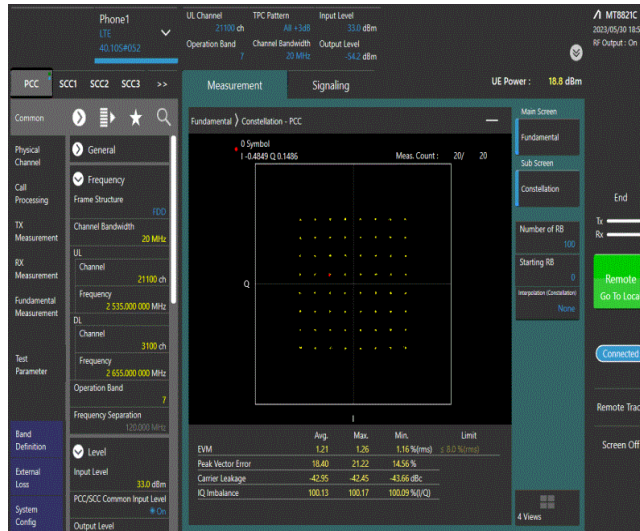
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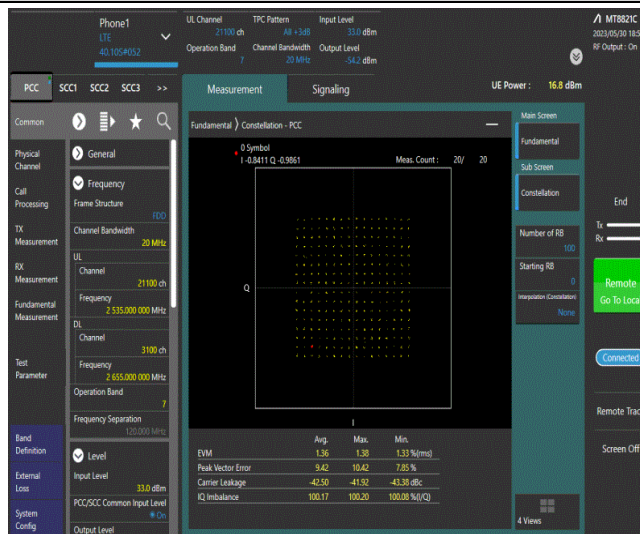
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Band7-20MHz-64QAM-21100-100RB#0



Band7-20MHz-256QAM-21100-100RB#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
Band7	5MHz	QPSK	20775	25RB#0	4.474	4.88	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.454	4.84	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.473	4.90	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.458	4.85	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.472	4.87	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.482	4.83	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.473	4.88	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.480	4.82	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.466	4.79	PASS
Band7	5MHz	256QAM	20775	25RB#0	4.473	4.90	PASS
Band7	5MHz	256QAM	21100	25RB#0	4.480	4.89	PASS
Band7	5MHz	256QAM	21425	25RB#0	4.482	4.83	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.952	9.68	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.936	9.66	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.948	9.54	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.924	9.54	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.942	9.60	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.948	9.56	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.949	9.70	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.964	9.76	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.946	9.46	PASS
Band7	10MHz	256QAM	20800	50RB#0	8.932	9.68	PASS
Band7	10MHz	256QAM	21100	50RB#0	8.933	9.60	PASS
Band7	10MHz	256QAM	21400	50RB#0	8.934	9.68	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.411	14.64	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.435	14.73	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.413	14.37	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.465	14.52	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.476	14.61	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.492	14.43	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.446	14.43	PASS



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Band7	15MHz	64QAM	21100	75RB#0	13.407	14.49	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.421	14.49	PASS
Band7	15MHz	256QAM	20825	75RB#0	13.471	14.58	PASS
Band7	15MHz	256QAM	21100	75RB#0	13.455	14.73	PASS
Band7	15MHz	256QAM	21375	75RB#0	13.479	14.58	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.863	19.32	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.895	19.20	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.917	19.16	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.873	19.20	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.863	19.24	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.930	19.40	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.897	19.08	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.886	19.20	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.924	19.12	PASS
Band7	20MHz	256QAM	20850	100RB#0	17.935	19.20	PASS
Band7	20MHz	256QAM	21100	100RB#0	17.846	19.12	PASS
Band7	20MHz	256QAM	21350	100RB#0	17.953	19.24	PASS



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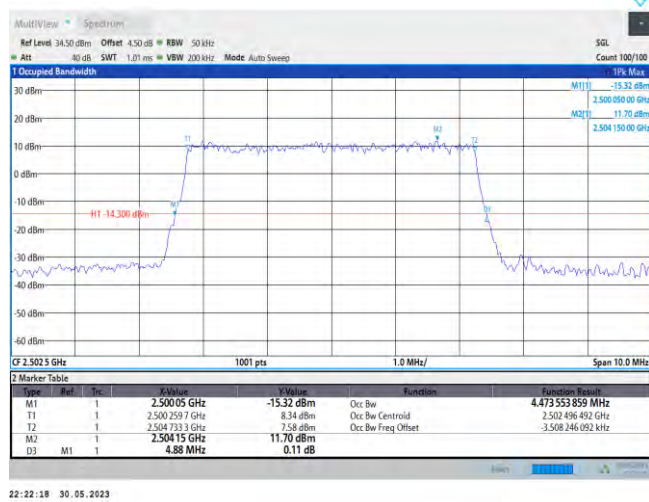
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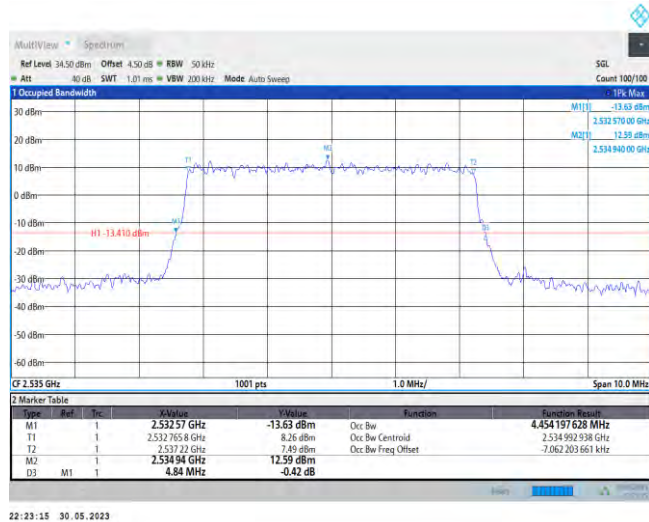
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Test Graphs

Band7-5MHz-QPSK-20775-25RB#0



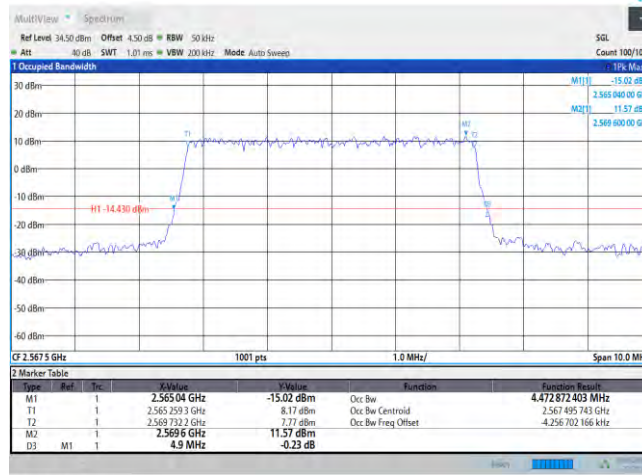
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Band7-5MHz-QPSK-21425-25RB#0



22:24:13 30.05.2023

Band7-5MHz-16QAM-20775-25RB#0



22:22:31 30.05.2023



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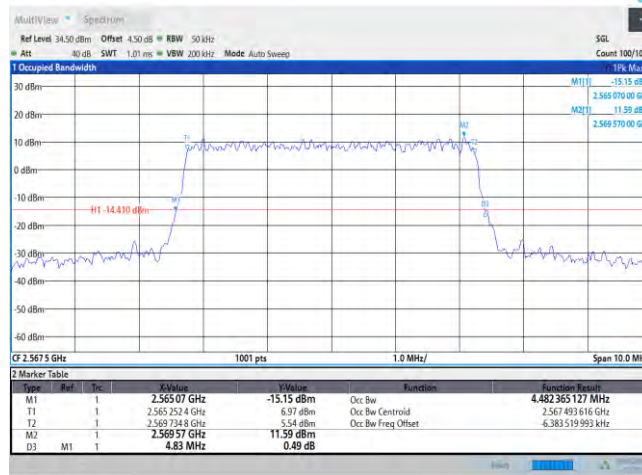
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Band7-5MHz-16QAM-21100-25RB#0



22:23:29 30.05.2023

Band7-5MHz-16QAM-21425-25RB#0



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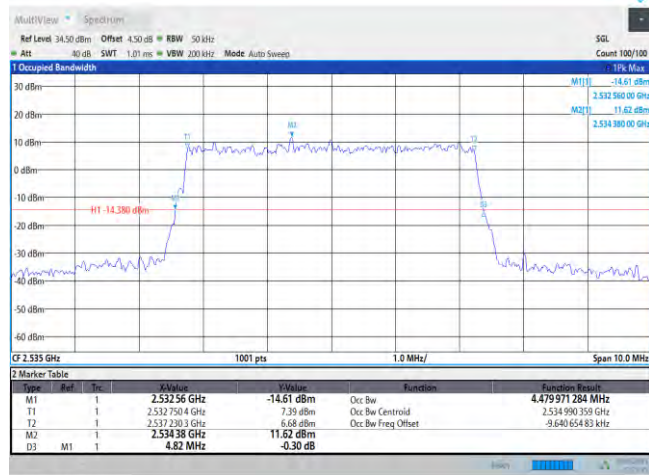
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Band7-5MHz-64QAM-20775-25RB#0



22:22:44 30.05.2023

Band7-5MHz-64QAM-21100-25RB#0



22:23:42 30.05.2023



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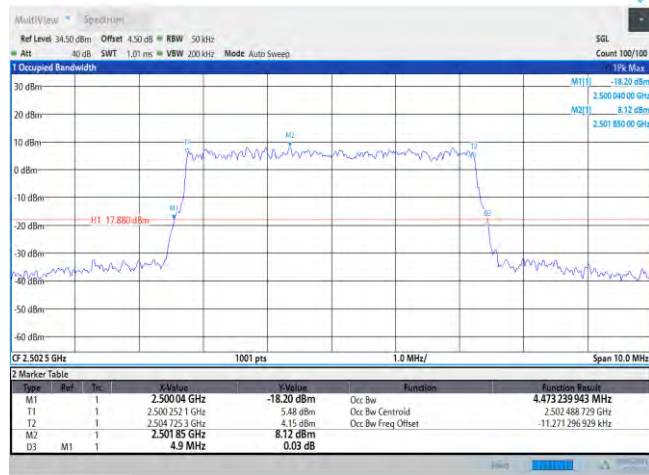
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Band7-5MHz-64QAM-21425-25RB#0



22:24:40 30.05.2023

Band7-5MHz-256QAM-20775-25RB#0



22:22:58 30.05.2023



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Band7-5MHz-256QAM-21100-25RB#0



22:23:56 30.05.2023

Band7-5MHz-256QAM-21425-25RB#0



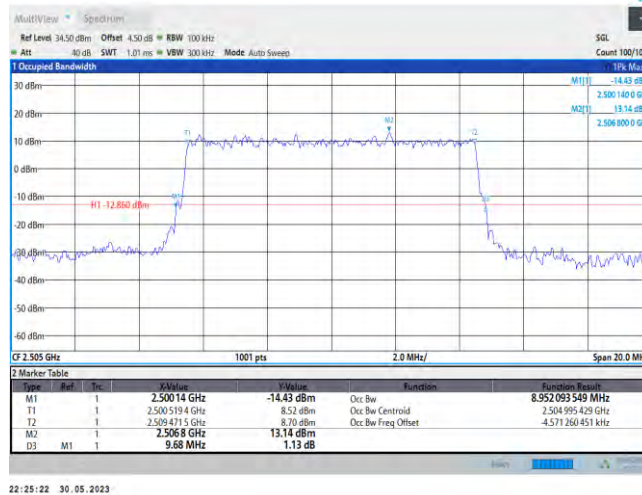
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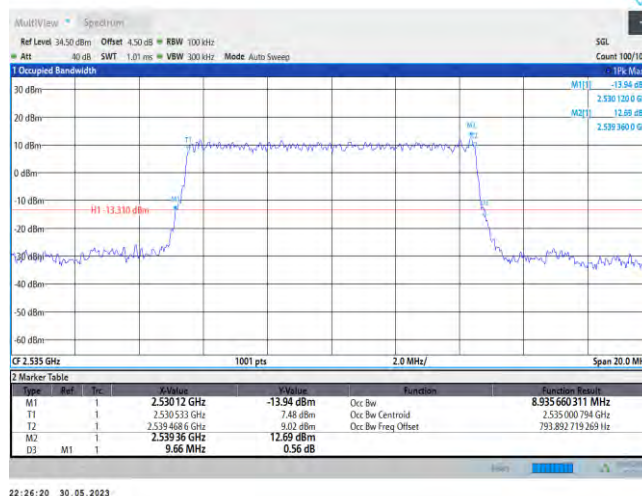
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Band7-10MHz-QPSK-20800-50RB#0



22:25:22 30.05.2023

Band7-10MHz-QPSK-21100-50RB#0



22:26:20 30.05.2023



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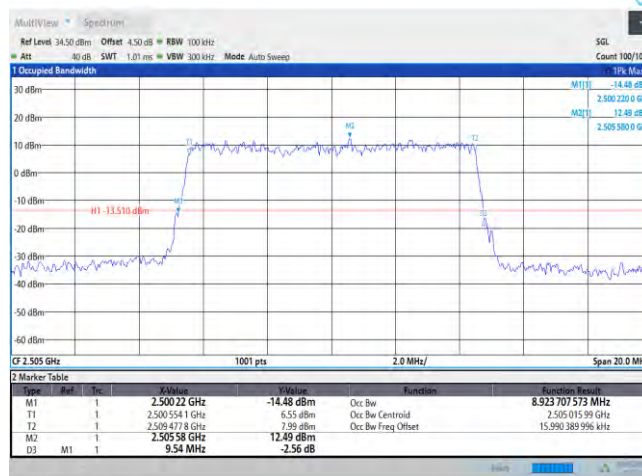
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Band7-10MHz-QPSK-21400-50RB#0



22:27:18 30.05.2023

Band7-10MHz-16QAM-20800-50RB#0



22:25:35 30.05.2023



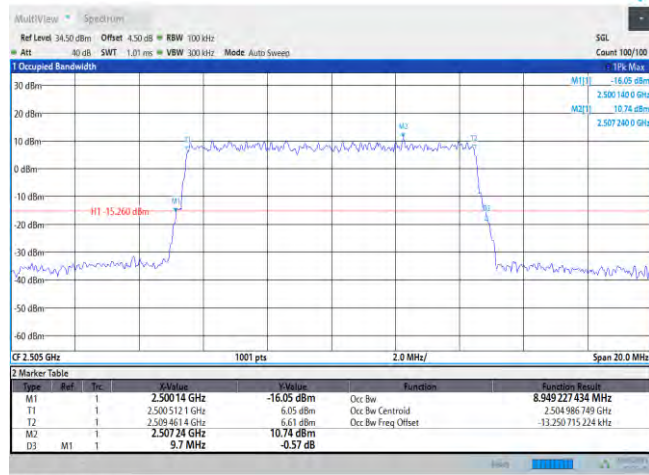
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Band7-10MHz-64QAM-20800-50RB#0



22:25:49 30.05.2023

Band7-10MHz-64QAM-21100-50RB#0



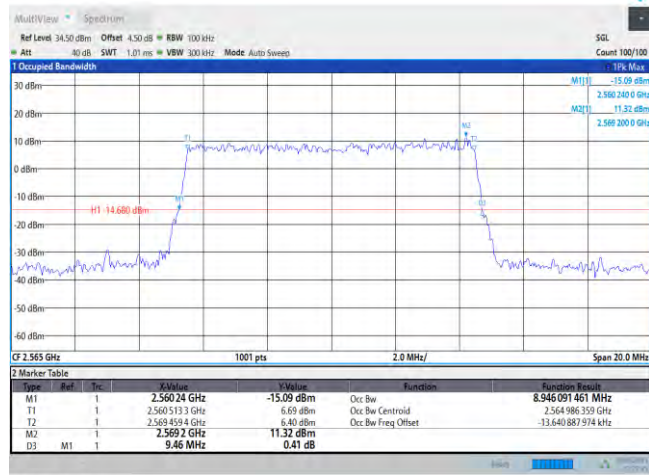
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Band7-10MHz-64QAM-21400-50RB#0



22:27:44 30.05.2023

Band7-10MHz-256QAM-20800-50RB#0



22:26:02 30.05.2023



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Band7-10MHz-256QAM-21100-50RB#0



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Band7-10MHz-256QAM-21400-50RB#0



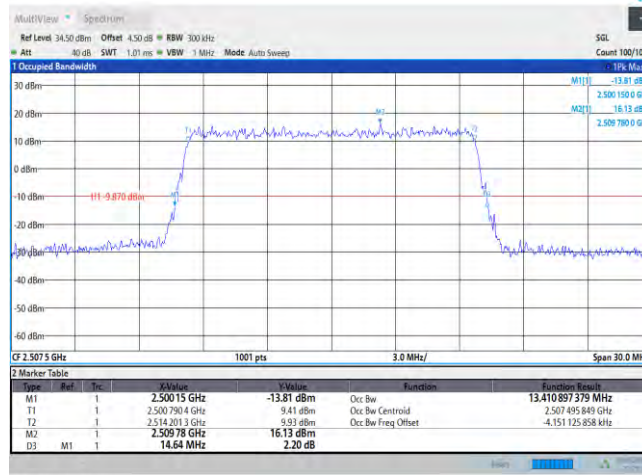
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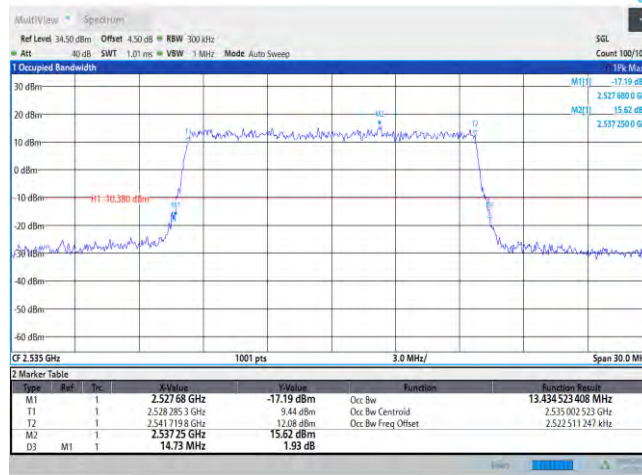
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Band7-15MHz-QPSK-20825-75RB#0



22:28:24 30.05.2023

Band7-15MHz-QPSK-21100-75RB#0



22:29:22 30.05.2023

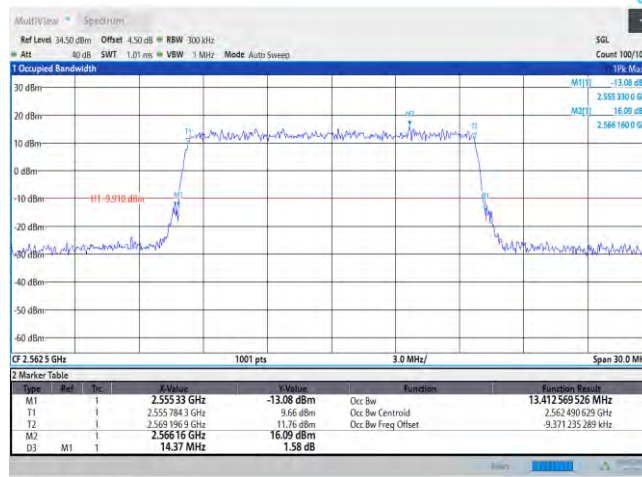


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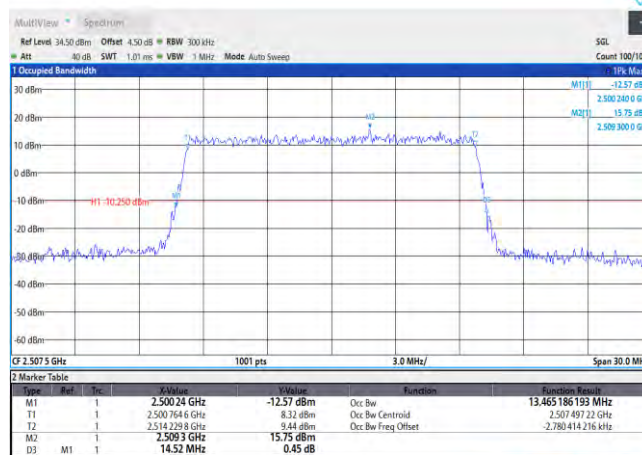
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Band7-15MHz-QPSK-21375-75RB#0



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Band7-15MHz-16QAM-20825-75RB#0



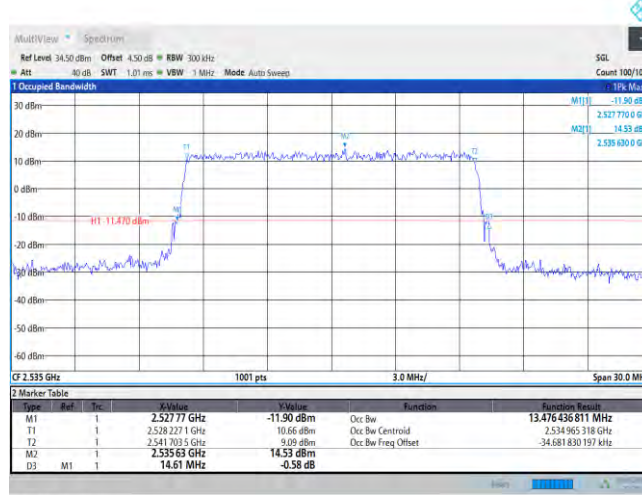
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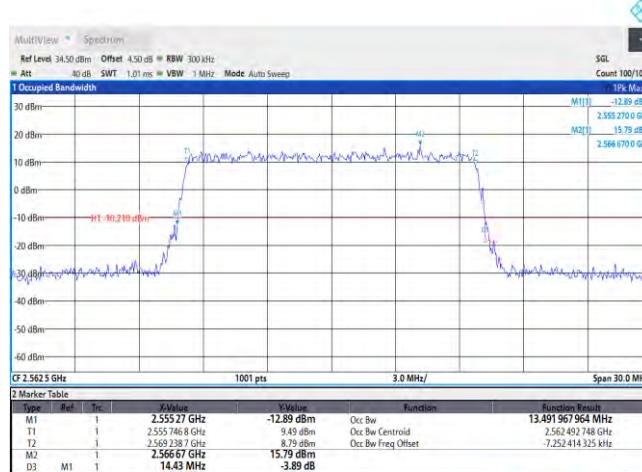
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Band7-15MHz-16QAM-21100-75RB#0



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Band7-15MHz-16QAM-21375-75RB#0



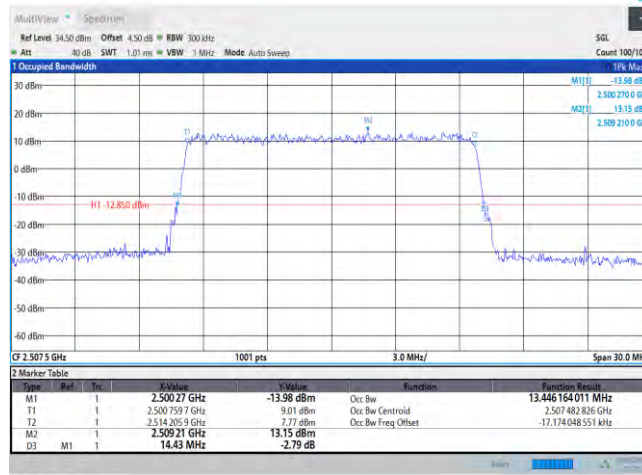
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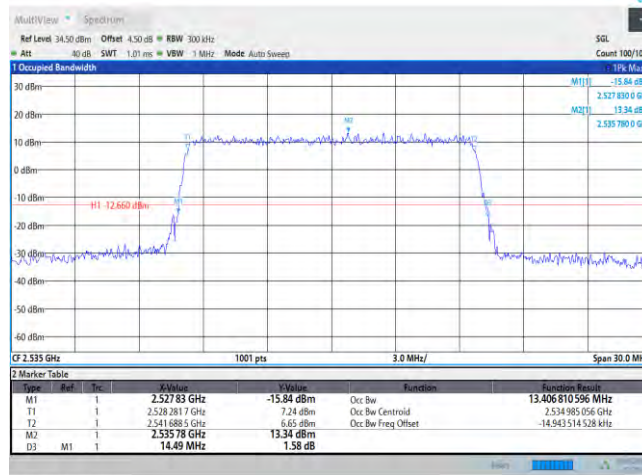
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Band7-15MHz-64QAM-20825-75RB#0



22:28:51 30.05.2023

Band7-15MHz-64QAM-21100-75RB#0



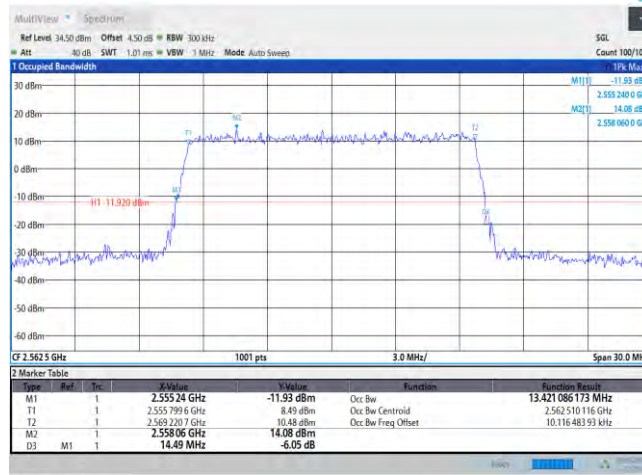
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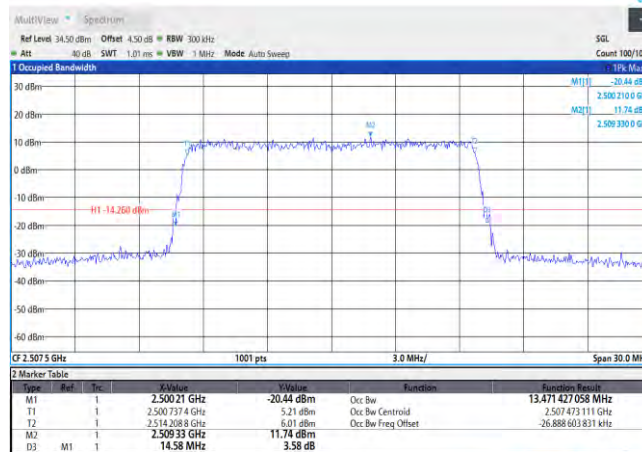
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Band7-15MHz-64QAM-21375-75RB#0



22:30:44 30.05.2023

Band7-15MHz-256QAM-20825-75RB#0



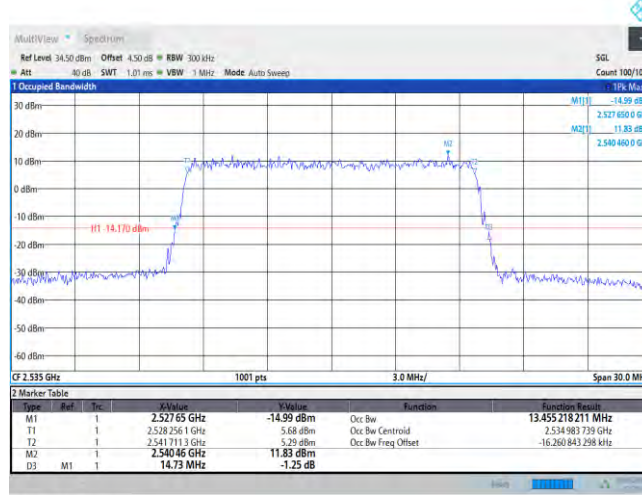
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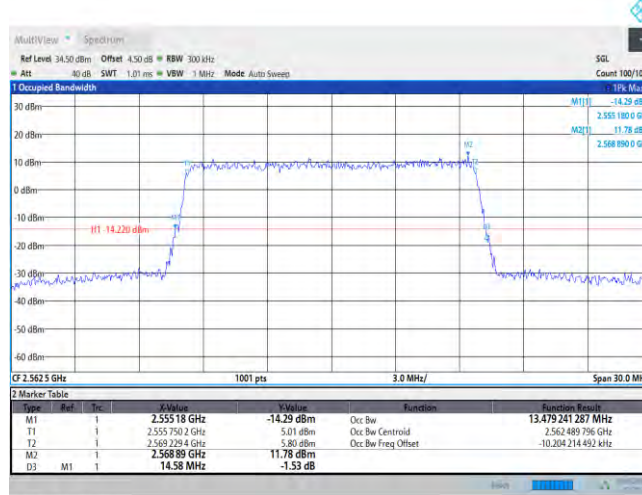
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Band7-15MHz-256QAM-21100-75RB#0



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Band7-15MHz-256QAM-21375-75RB#0



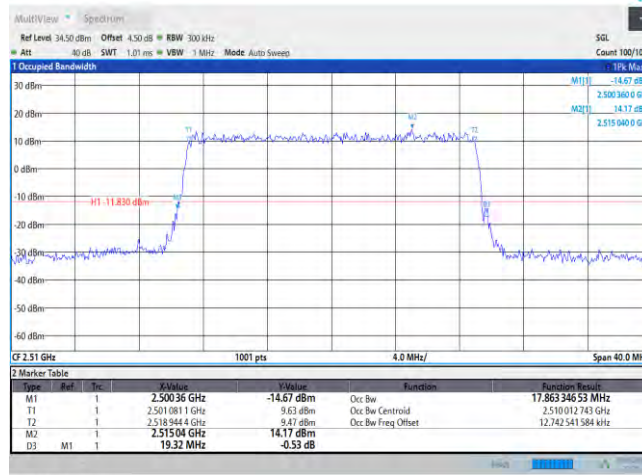
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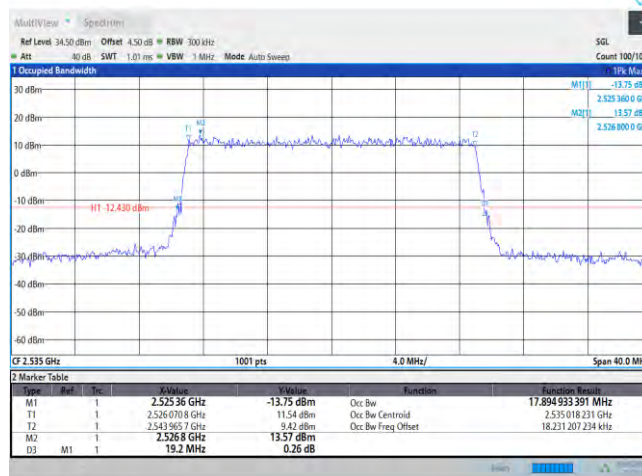
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Band7-20MHz-QPSK-20850-100RB#0



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Band7-20MHz-QPSK-21100-100RB#0



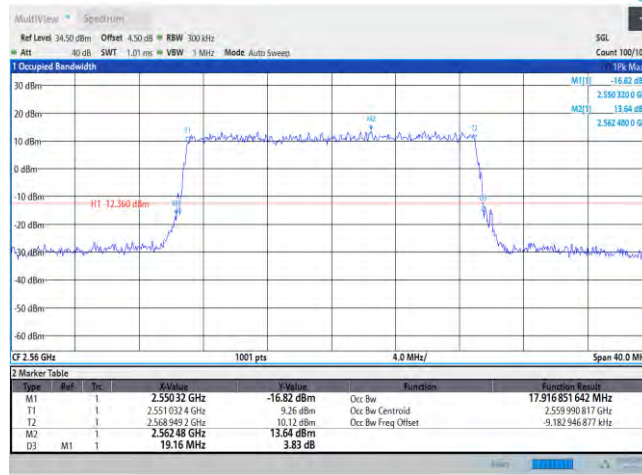
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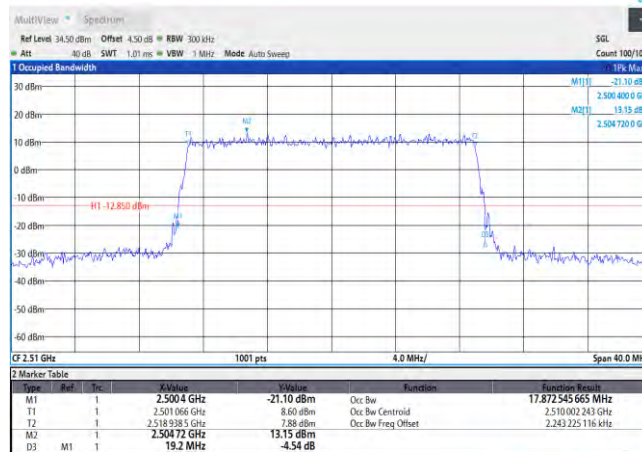
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Band7-20MHz-QPSK-21350-100RB#0



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Band7-20MHz-16QAM-20850-100RB#0



22:31:39 30.05.2023

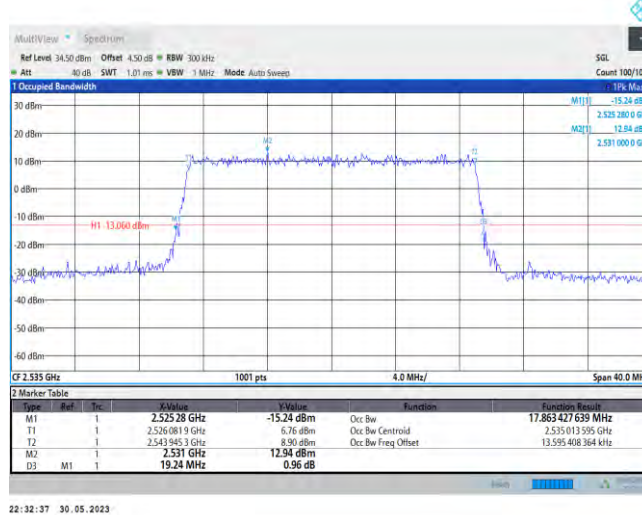


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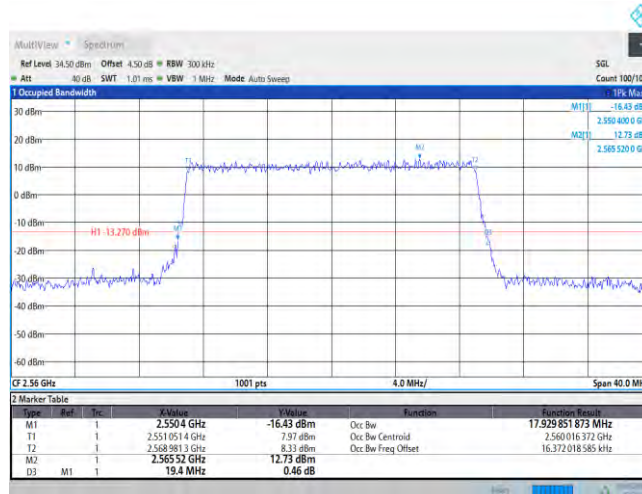
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Band7-20MHz-16QAM-21100-100RB#0



22:32:37 30.05.2023

Band7-20MHz-16QAM-21350-100RB#0



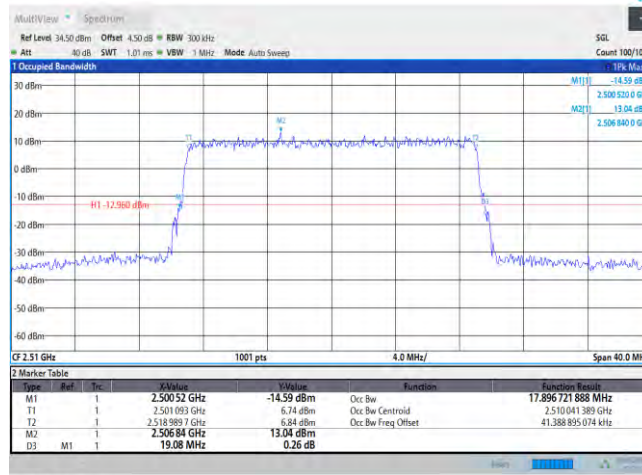
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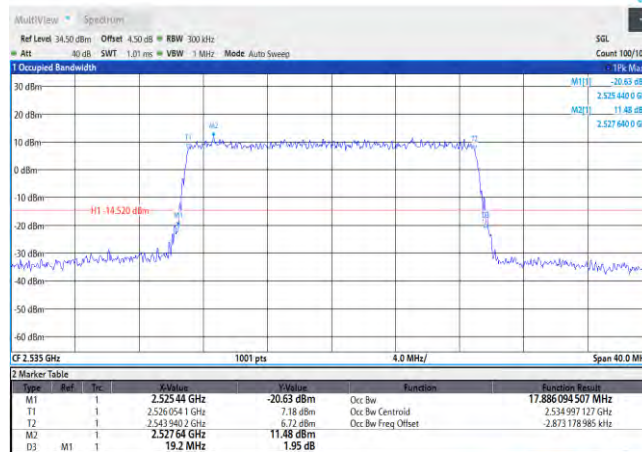
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22:31:52 30.05.2023

Band7-20MHz-64QAM-21100-100RB#0



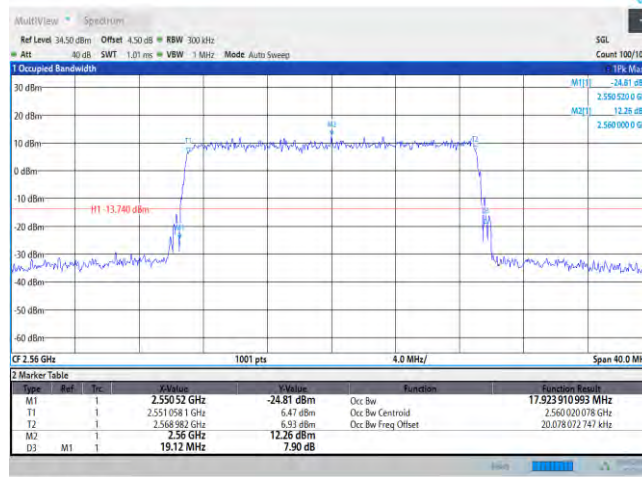
22:32:50 30.05.2023



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Band7-20MHz-64QAM-21350-100RB#0



22:33:46 30.05.2023

Band7-20MHz-256QAM-20850-100RB#0



22:32:06 30.05.2023

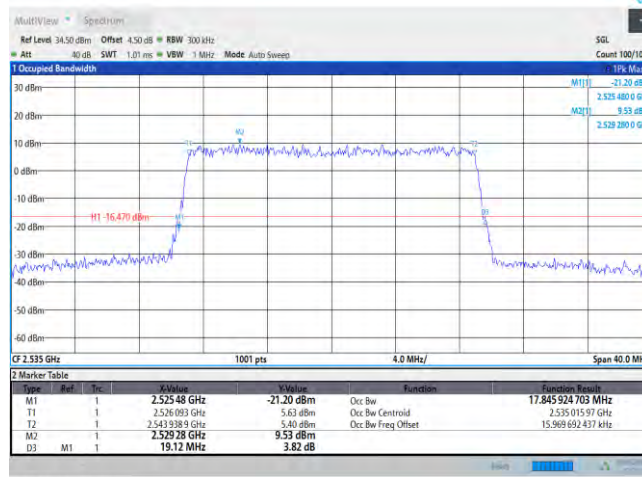


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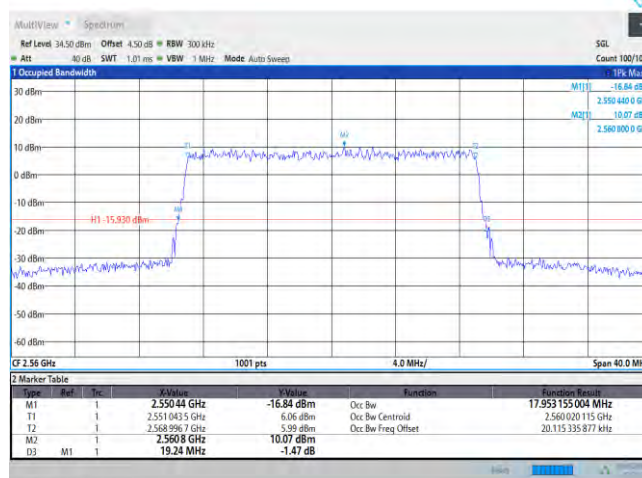
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Band7-20MHz-256QAM-21100-100RB#0



22:33:04 30.05.2023

Band7-20MHz-256QAM-21350-100RB#0



22:33:59 30.05.2023



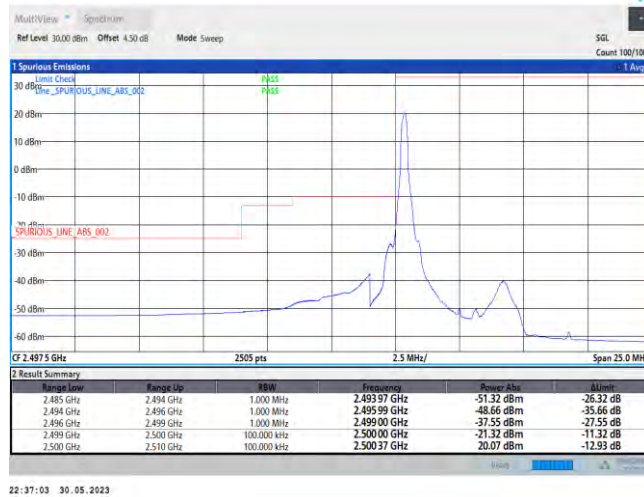
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Band Edge

Test Graphs

Band7-5MHz-QPSK-20775-1RB#0



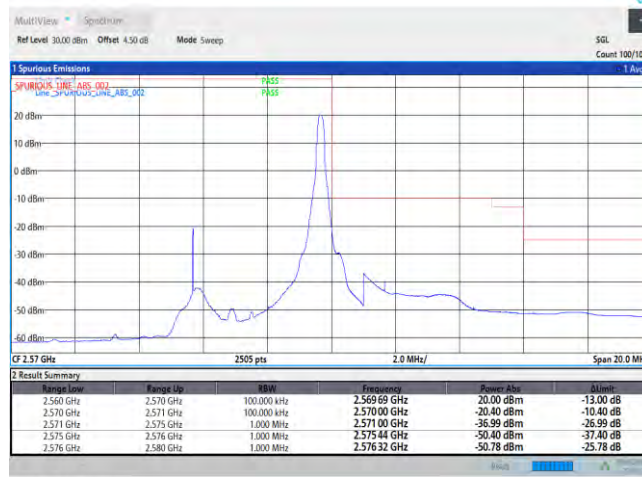
Band7-5MHz-QPSK-20775-25RB#0



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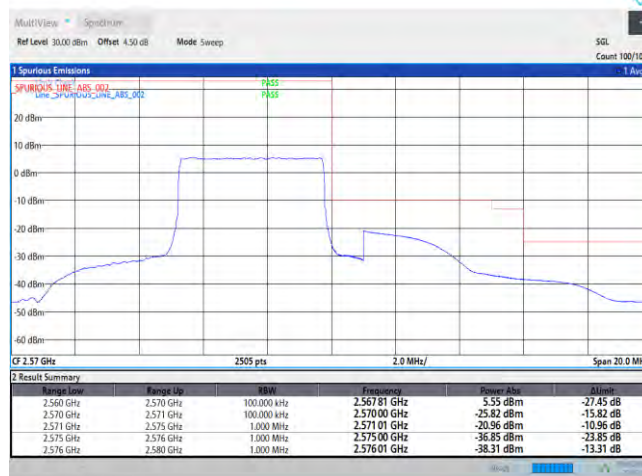
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Band7-5MHz-QPSK-21425-1RB#24



22:42:52 30.05.2023

Band7-5MHz-QPSK-21425-25RB#0



22:45:38 30.05.2023

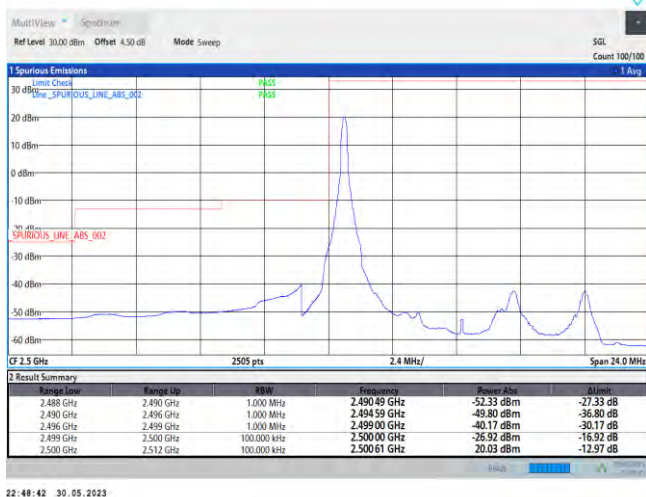


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Band7-10MHz-QPSK-20800-1RB#0



22:48:42 30.05.2023

Band7-10MHz-QPSK-20800-50RB#0



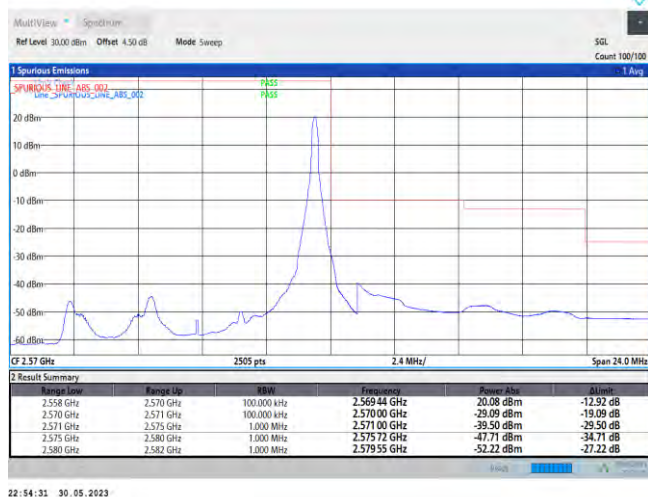
22:51:28 30.05.2023



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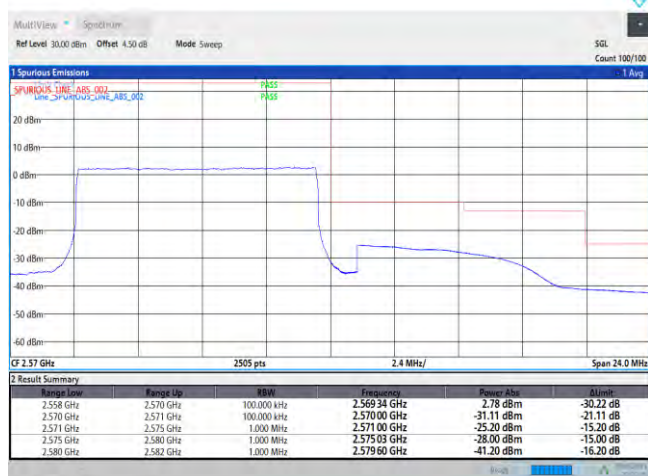
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Band7-10MHz-QPSK-21400-1RB#49



22:54:31 30.05.2023

Band7-10MHz-QPSK-21400-50RB#0



22:57:17 30.05.2023

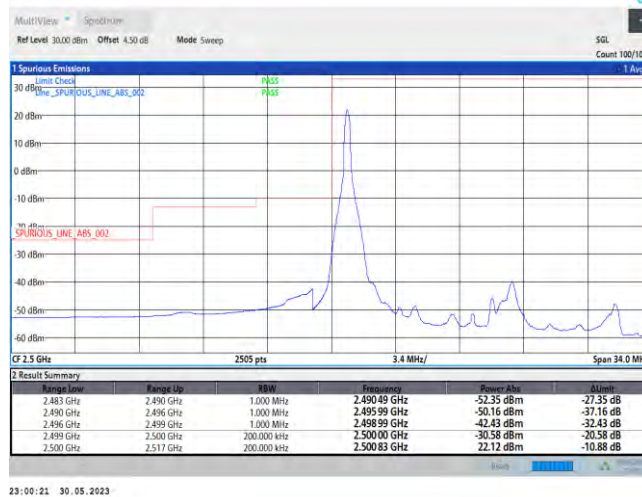


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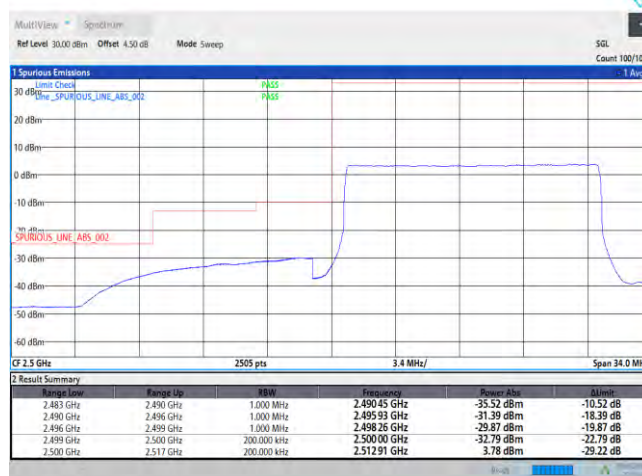
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Band7-15MHz-QPSK-20825-1RB#0



23:00:21 30.05.2023

Band7-15MHz-QPSK-20825-75RB#0



23:03:07 30.05.2023



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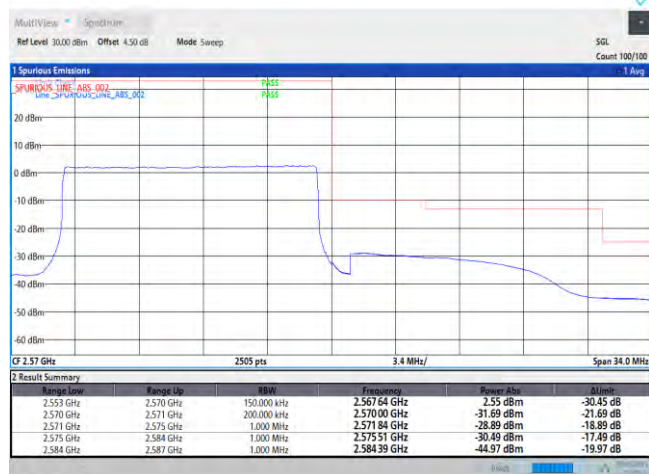
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Band7-15MHz-QPSK-21375-1RB#74



23:06:11 30.05.2023

Band7-15MHz-QPSK-21375-75RB#0



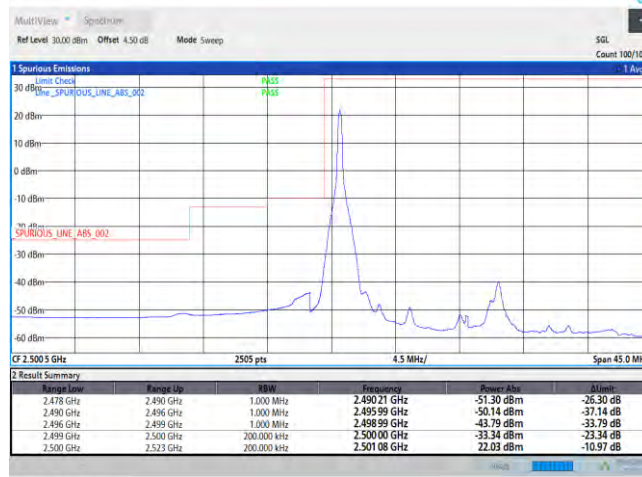
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Band7-20MHz-QPSK-20850-1RB#0



23:11:57 30.05.2023

Band7-20MHz-QPSK-20850-100RB#0



23:14:42 30.05.2023



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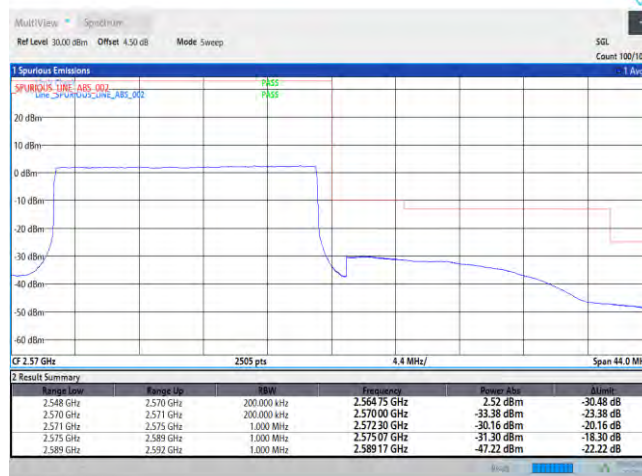
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Band7-20MHz-QPSK-21350-1RB#99



23:17:46 30.05.2023

Band7-20MHz-QPSK-21350-100RB#0



23:20:30 30.05.2023



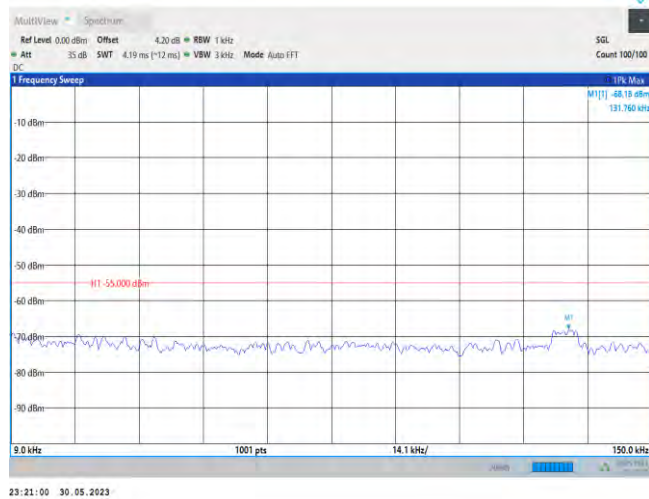
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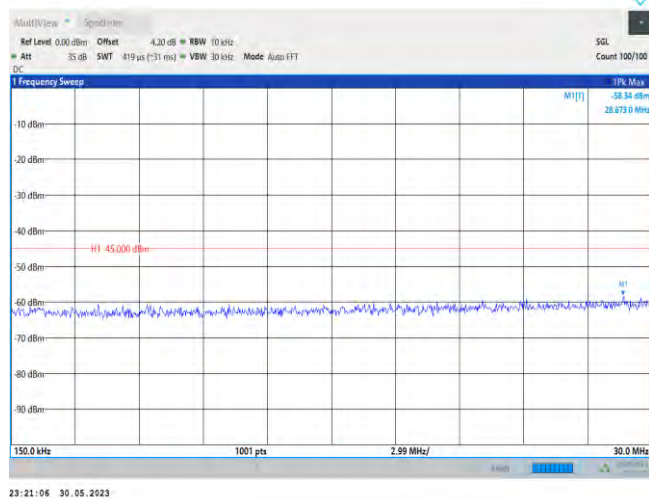
Conducted Spurious Emission

Test Graphs

Band7-20MHz-QPSK-20850-1RB#0-Range1:0.009~0.15MHz



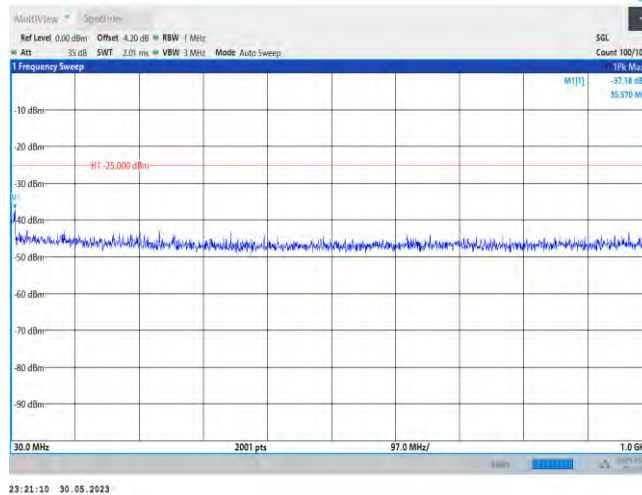
Band7-20MHz-QPSK-20850-1RB#0-Range2:0.15~30MHz



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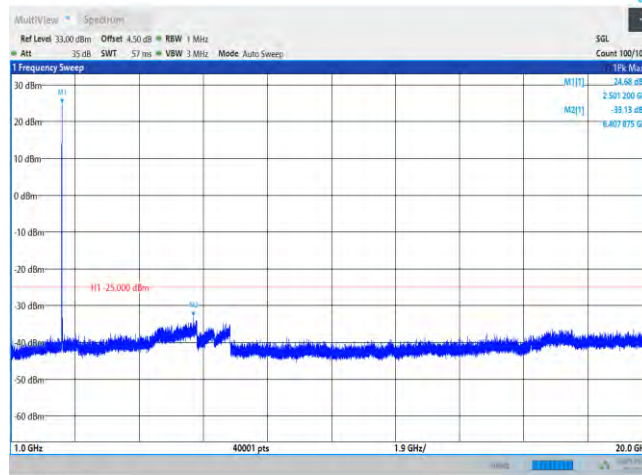
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Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz



23:21:10 30.05.2023

Band7-20MHz-QPSK-20850-1RB#0-Range4:1000~20000MHz



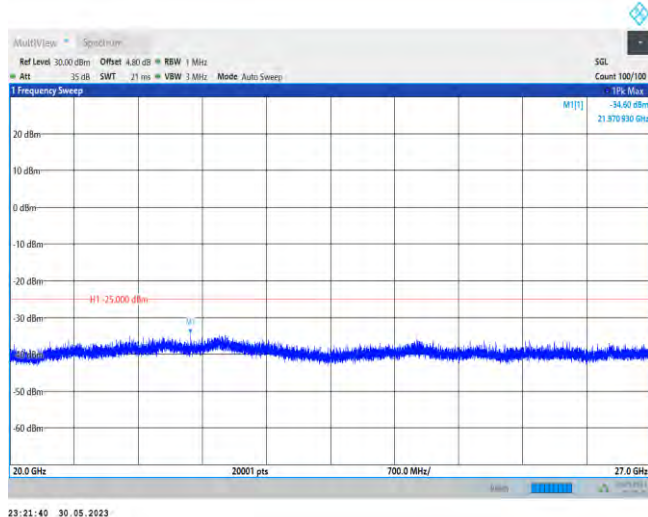
23:21:26 30.05.2023



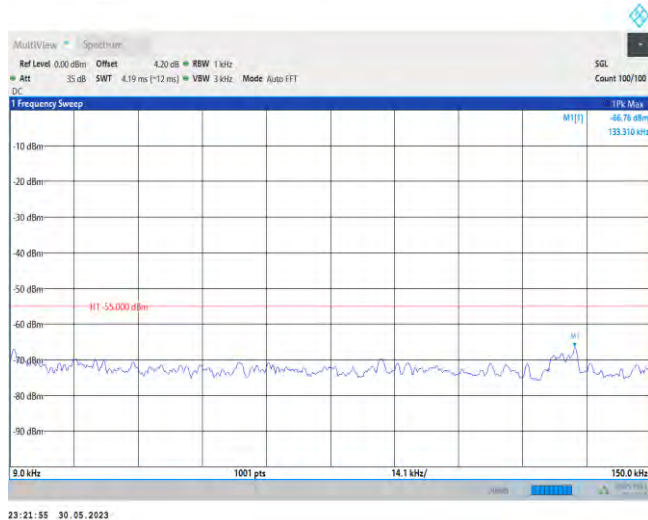
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Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz



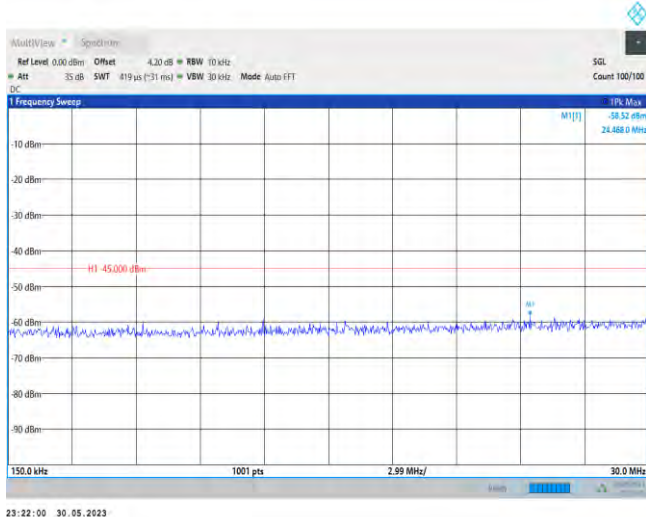
Band7-20MHz-QPSK-21100-1RB#0-Range1:0.009~0.15MHz



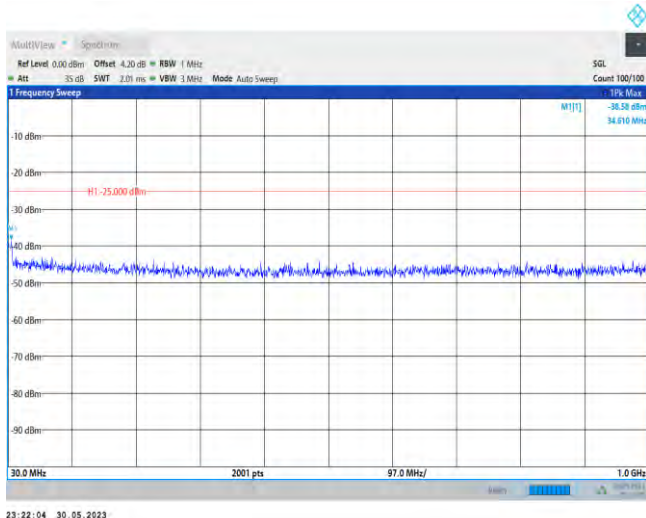
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Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz



Band7-20MHz-QPSK-21100-1RB#0-Range3:30~1000MHz

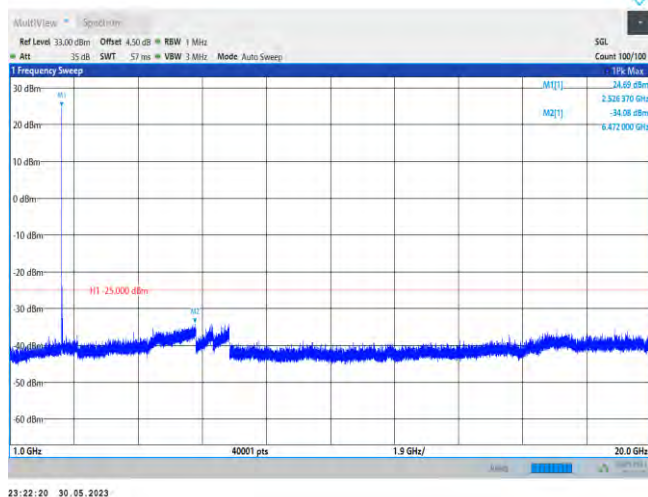


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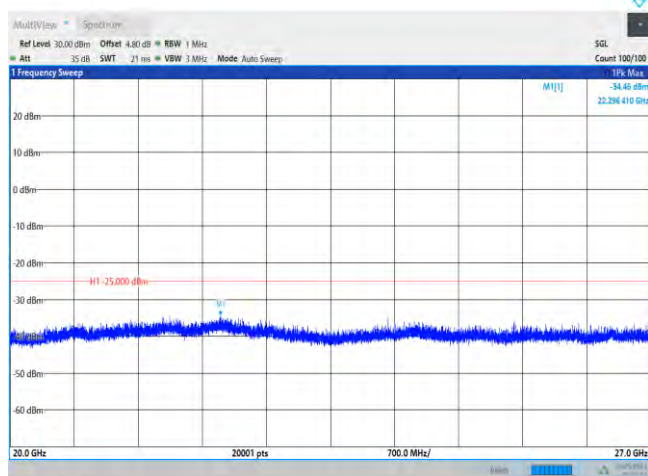
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Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz



23:22:20 30.05.2023

Band7-20MHz-QPSK-21100-1RB#0-Range5:20000~27000MHz



23:22:34 30.05.2023

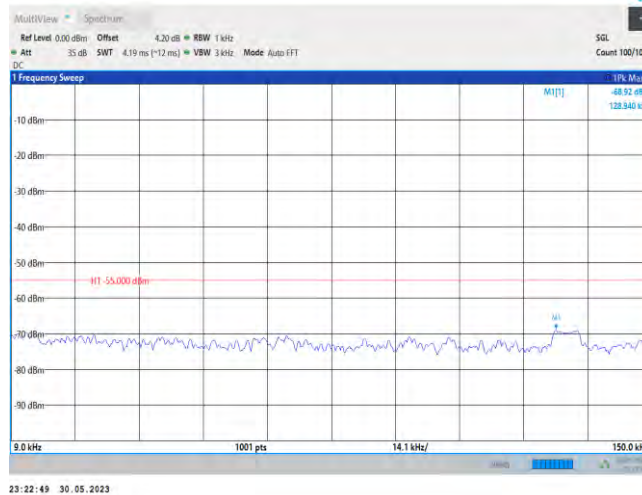


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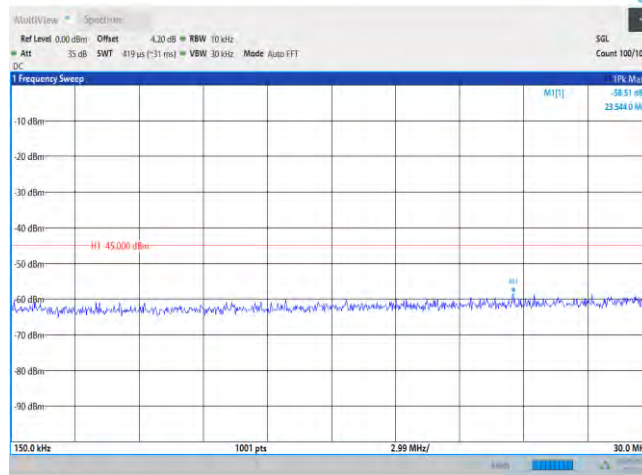
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Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



23:22:49 30.05.2023

Band7-20MHz-QPSK-21350-1RB#0-Range2:0.15~30MHz



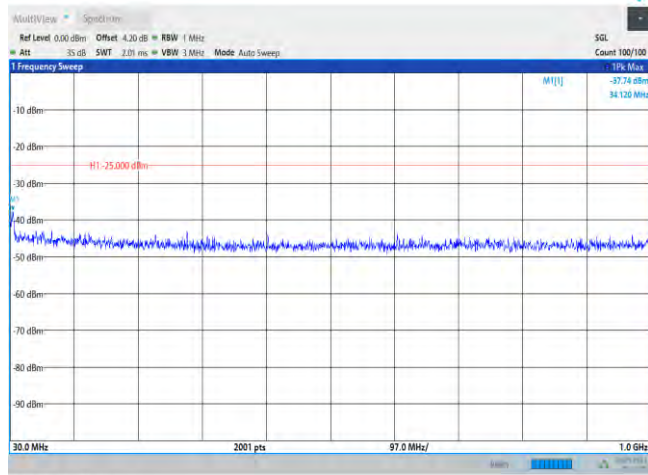
23:22:55 30.05.2023



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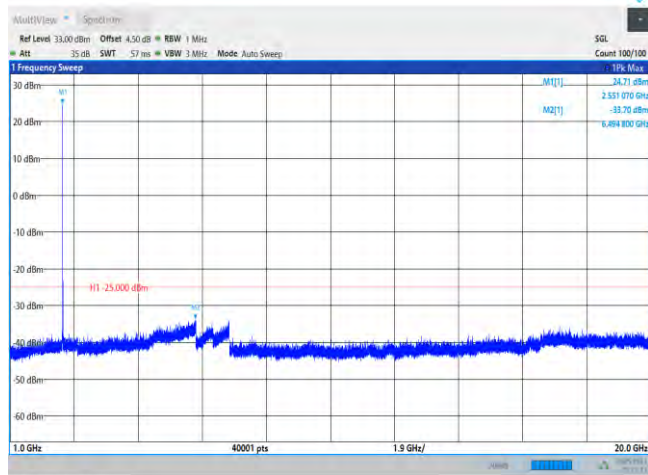
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



23:22:59 30.05.2023

Band7-20MHz-QPSK-21350-1RB#0-Range4:1000~20000MHz



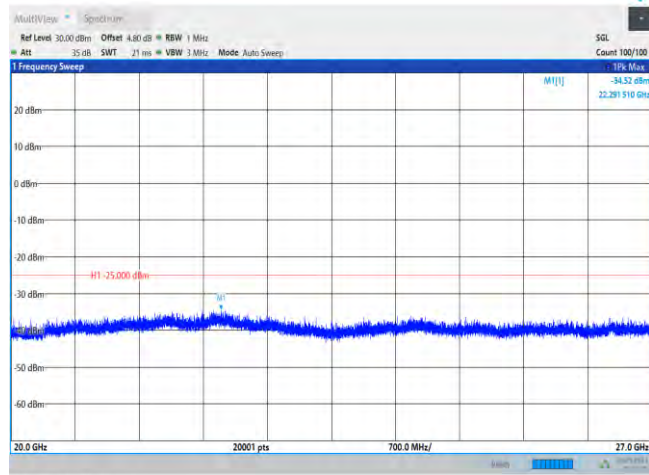
23:23:14 30.05.2023



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Band7-20MHz-QPSK-21350-1RB#0-Range5:20000~27000MHz



23:23:29 30.05.2023



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Field Strength of Spurious Radiation

Test Band = LTE Band 7_20MHz _ TM1

Test Channel = LOW ANT15

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	41.17	-45.63	32.88	-66.84	-25.00	41.84	123	272	Horizontal
2	7503.2700	38.46	-43.13	36.44	-63.49	-25.00	38.49	256	240	Horizontal
3	10004.3600	32.86	-39.23	38.50	-63.14	-25.00	38.14	231	316	Horizontal
4	12505.4500	27.00	-36.99	39.18	-66.07	-25.00	41.07	154	286	Horizontal
5	15006.5400	24.60	-34.65	39.21	-66.10	-25.00	41.10	184	314	Horizontal
6	17507.6300	27.49	-34.95	39.22	-63.50	-25.00	38.50	152	75	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	41.52	-45.63	32.88	-66.49	-25.00	41.49	210	91	Vertical
2	7503.2700	38.25	-43.13	36.44	-63.70	-25.00	38.70	235	302	Vertical
3	10004.3600	33.55	-39.23	38.50	-62.45	-25.00	37.45	259	318	Vertical
4	12505.4500	26.76	-36.99	39.18	-66.31	-25.00	41.31	296	30	Vertical
5	15006.5400	24.81	-34.65	39.21	-65.89	-25.00	40.89	254	61	Vertical
6	17507.6300	27.66	-34.95	39.22	-63.33	-25.00	38.33	142	103	Vertical



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Test Band = LTE Band 7_20MHz _ TM1
Test Channel = MID ANT15

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.1800	40.94	-45.50	32.91	-66.91	-25.00	41.91	248	178	Horizontal
2	7578.2700	38.41	-42.97	36.40	-63.42	-25.00	38.42	147	148	Horizontal
3	10104.3600	32.31	-39.14	38.66	-63.43	-25.00	38.43	129	359	Horizontal
4	12630.4500	26.81	-37.33	39.33	-66.45	-25.00	41.45	158	29	Horizontal
5	15156.5400	25.40	-34.37	39.01	-65.22	-25.00	40.22	192	3	Horizontal
6	17682.6300	28.40	-33.89	40.06	-60.69	-25.00	35.69	130	351	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.1800	41.56	-45.50	32.91	-66.29	-25.00	41.29	266	257	Vertical
2	7578.2700	38.17	-42.97	36.40	-63.66	-25.00	38.66	253	0	Vertical
3	10104.3600	32.35	-39.14	38.66	-63.39	-25.00	38.39	142	316	Vertical
4	12630.4500	26.98	-37.33	39.33	-66.28	-25.00	41.28	185	18	Vertical
5	15156.5400	24.68	-34.37	39.01	-65.94	-25.00	40.94	194	196	Vertical
6	17682.6300	27.62	-33.89	40.06	-61.47	-25.00	36.47	175	303	Vertical



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Test Band = LTE Band 7_20MHz _ TM1

Test Channel = HIGH ANT15

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.1800	39.88	-45.37	32.94	-67.81	-25.00	42.81	251	358	Horizontal
2	7653.2700	38.72	-43.03	36.49	-63.08	-25.00	38.08	142	284	Horizontal
3	10204.3600	31.29	-39.48	38.81	-64.64	-25.00	39.64	100	225	Horizontal
4	12755.4500	27.14	-36.76	39.55	-65.33	-25.00	40.33	128	179	Horizontal
5	15306.5400	25.68	-34.36	38.82	-65.12	-25.00	40.12	193	104	Horizontal
6	17857.6300	29.18	-34.56	41.24	-59.40	-25.00	34.40	231	255	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.1800	40.66	-45.37	32.94	-67.03	-25.00	42.03	241	357	Vertical
2	7653.2700	38.10	-43.03	36.49	-63.70	-25.00	38.70	153	90	Vertical
3	10204.3600	30.99	-39.48	38.81	-64.94	-25.00	39.94	213	330	Vertical
4	12755.4500	27.15	-36.76	39.55	-65.32	-25.00	40.32	236	151	Vertical
5	15306.5400	25.52	-34.36	38.82	-65.28	-25.00	40.28	259	30	Vertical
6	17857.6300	28.69	-34.56	41.24	-59.89	-25.00	34.89	299	44	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	1.80	0.000710	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	1.30	0.000513	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	0.20	0.000079	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	1.80	0.000710	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-1.70	-0.000671	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-1.80	-0.000710	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	1.60	0.000631	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	0.90	0.000355	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-2.10	-0.000828	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	2.70	0.001065	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	1.50	0.000592	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	1.20	0.000473	PASS

---End of Attachment---



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