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Appendix B.5

LTE Band 7



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	21.99	14.29	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.22	14.52	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	21.95	14.25	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.13	13.43	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	21.89	14.19	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.13	14.43	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	21.83	14.13	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.01	13.31	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.03	14.33	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.25	14.55	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	21.96	14.26	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.19	13.49	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.22	13.52	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.51	13.81	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.15	13.45	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.13	12.43	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.24	13.54	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.47	13.77	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.14	13.44	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	19.99	12.29	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.30	13.60	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.50	13.80	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.29	13.59	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.18	12.48	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#0	20.19	12.49	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#12	20.46	12.76	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#24	20.08	12.38	33.00	PASS



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Band7	5MHz	64QAM	20775	25RB#0	19.11	11.41	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#0	20.09	12.39	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#12	20.30	12.60	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#24	19.96	12.26	33.00	PASS
Band7	5MHz	64QAM	21100	25RB#0	18.98	11.28	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#0	20.18	12.48	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#12	20.49	12.79	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#24	20.19	12.49	33.00	PASS
Band7	5MHz	64QAM	21425	25RB#0	19.18	11.48	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.06	14.36	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.12	14.42	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.02	14.32	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.15	13.45	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	21.98	14.28	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.05	14.35	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	21.91	14.21	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.08	13.38	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.09	14.39	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.24	14.54	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.05	14.35	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.24	13.54	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.31	13.61	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.45	13.75	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.35	13.65	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.13	12.43	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	21.32	13.62	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.25	13.55	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.25	13.55	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.07	12.37	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.41	13.71	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.44	13.74	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.26	13.56	33.00	PASS



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Band7	10MHz	16QAM	21400	50RB#0	20.23	12.53	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#0	20.27	12.57	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#24	20.29	12.59	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#49	20.21	12.51	33.00	PASS
Band7	10MHz	64QAM	20800	50RB#0	19.10	11.40	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#0	20.20	12.50	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#24	20.32	12.62	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#49	20.13	12.43	33.00	PASS
Band7	10MHz	64QAM	21100	50RB#0	19.04	11.34	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#0	20.23	12.53	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#24	20.40	12.70	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#49	20.25	12.55	33.00	PASS
Band7	10MHz	64QAM	21400	50RB#0	19.21	11.51	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	21.98	14.28	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.09	14.39	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	21.94	14.24	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.13	13.43	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	21.88	14.18	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	21.98	14.28	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	21.87	14.17	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.06	13.36	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	21.98	14.28	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.17	14.47	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.01	14.31	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.22	13.52	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.25	13.55	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.32	13.62	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.23	13.53	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.09	12.39	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.10	13.40	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	21.24	13.54	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.21	13.51	33.00	PASS



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Band7	15MHz	16QAM	21100	75RB#0	20.02	12.32	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.26	13.56	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.37	13.67	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.30	13.60	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.19	12.49	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#0	20.14	12.44	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#38	20.28	12.58	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#74	20.12	12.42	33.00	PASS
Band7	15MHz	64QAM	20825	75RB#0	19.09	11.39	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#0	20.10	12.40	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#38	20.18	12.48	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#74	20.12	12.42	33.00	PASS
Band7	15MHz	64QAM	21100	75RB#0	19.01	11.31	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#0	20.14	12.44	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#38	20.41	12.71	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#74	20.19	12.49	33.00	PASS
Band7	15MHz	64QAM	21375	75RB#0	19.16	11.46	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	21.93	14.23	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.18	14.48	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	21.89	14.19	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.09	13.39	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	21.85	14.15	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.09	14.39	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	21.82	14.12	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.02	13.32	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	21.94	14.24	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.24	14.54	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	21.93	14.23	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.19	13.49	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	21.27	13.57	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.53	13.83	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.20	13.50	33.00	PASS



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Band7	20MHz	16QAM	20850	100RB#0	20.05	12.35	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.16	13.46	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.32	13.62	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.03	13.33	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.01	12.31	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.30	13.60	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.54	13.84	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.21	13.51	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.16	12.46	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#0	20.13	12.43	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#49	20.39	12.69	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#99	20.11	12.41	33.00	PASS
Band7	20MHz	64QAM	20850	100RB#0	19.04	11.34	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#0	20.11	12.41	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#49	20.20	12.50	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#99	20.03	12.33	33.00	PASS
Band7	20MHz	64QAM	21100	100RB#0	18.99	11.29	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#0	20.15	12.45	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#49	20.38	12.68	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#99	20.14	12.44	33.00	PASS
Band7	20MHz	64QAM	21350	100RB#0	19.16	11.46	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	5.38	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.42	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.32	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.10	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.20	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.12	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.40	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.44	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.42	13	PASS



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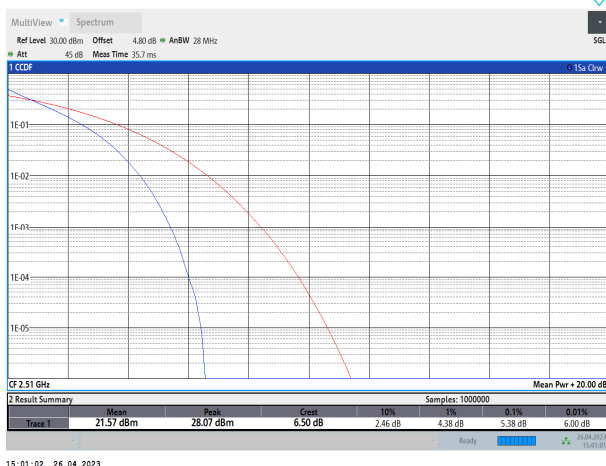
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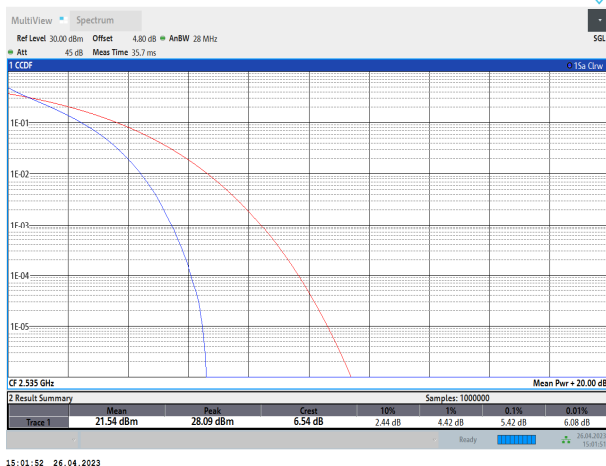
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Test Graphs

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



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



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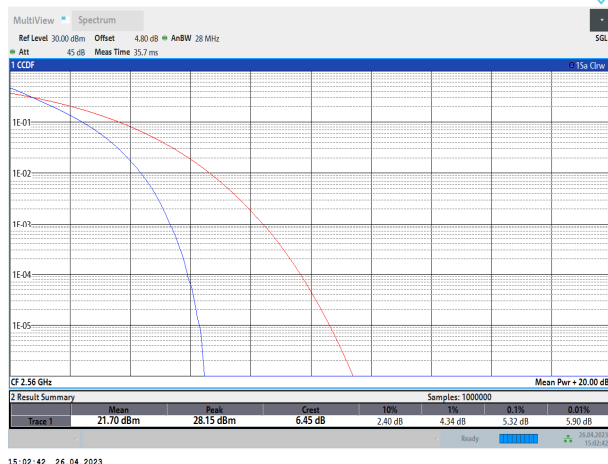
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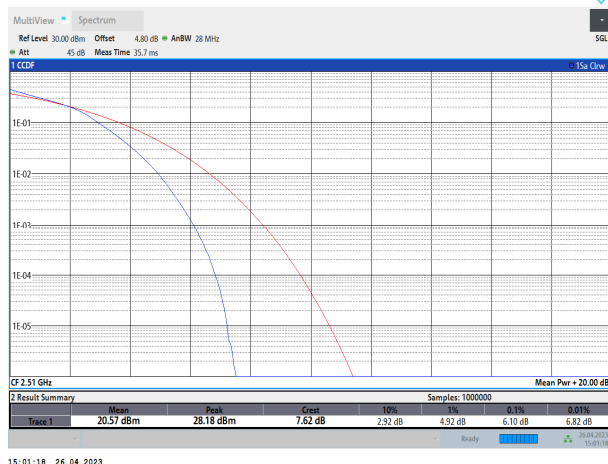
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Band7-20MHz-QPSK-21350-100RB#0



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



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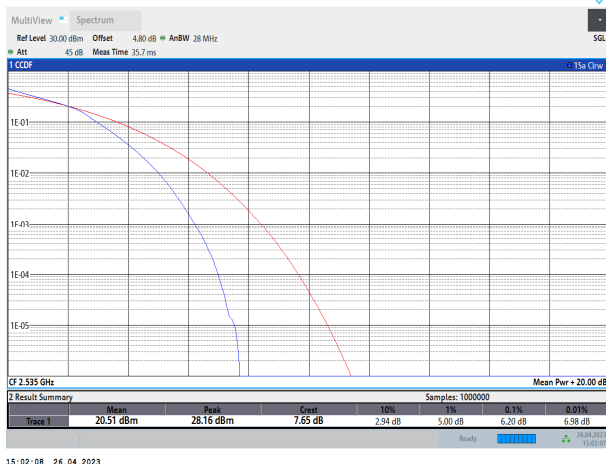
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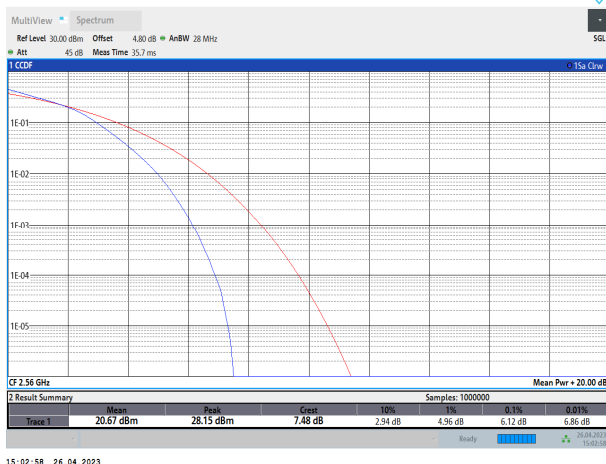
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Band7-20MHz-16QAM-21100-100RB#0



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



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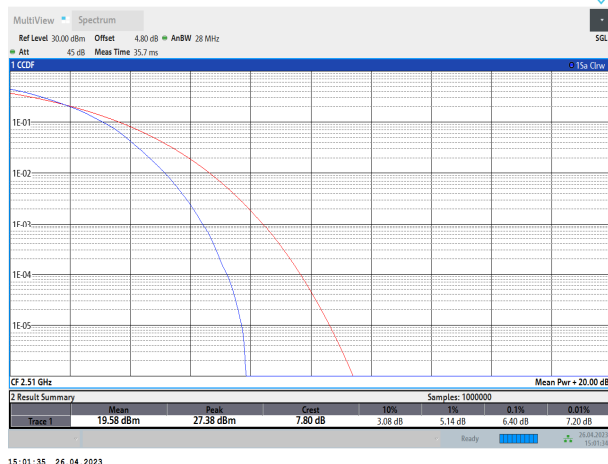
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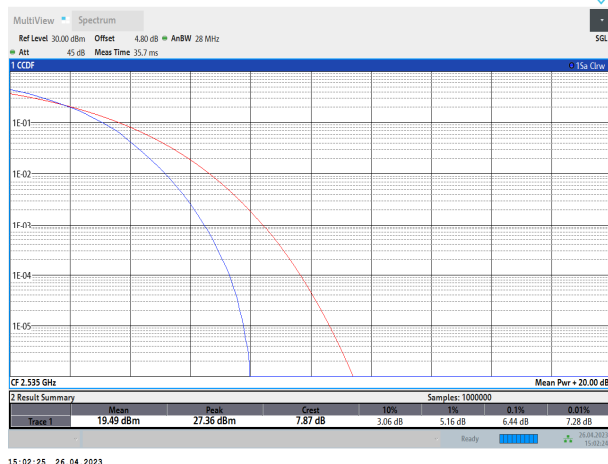
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Band7-20MHz-64QAM-20850-100RB#0



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



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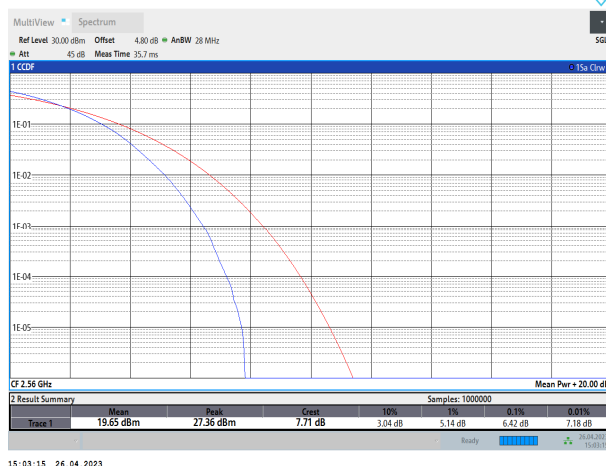
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Band7-20MHz-64QAM-21350-100RB#0



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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



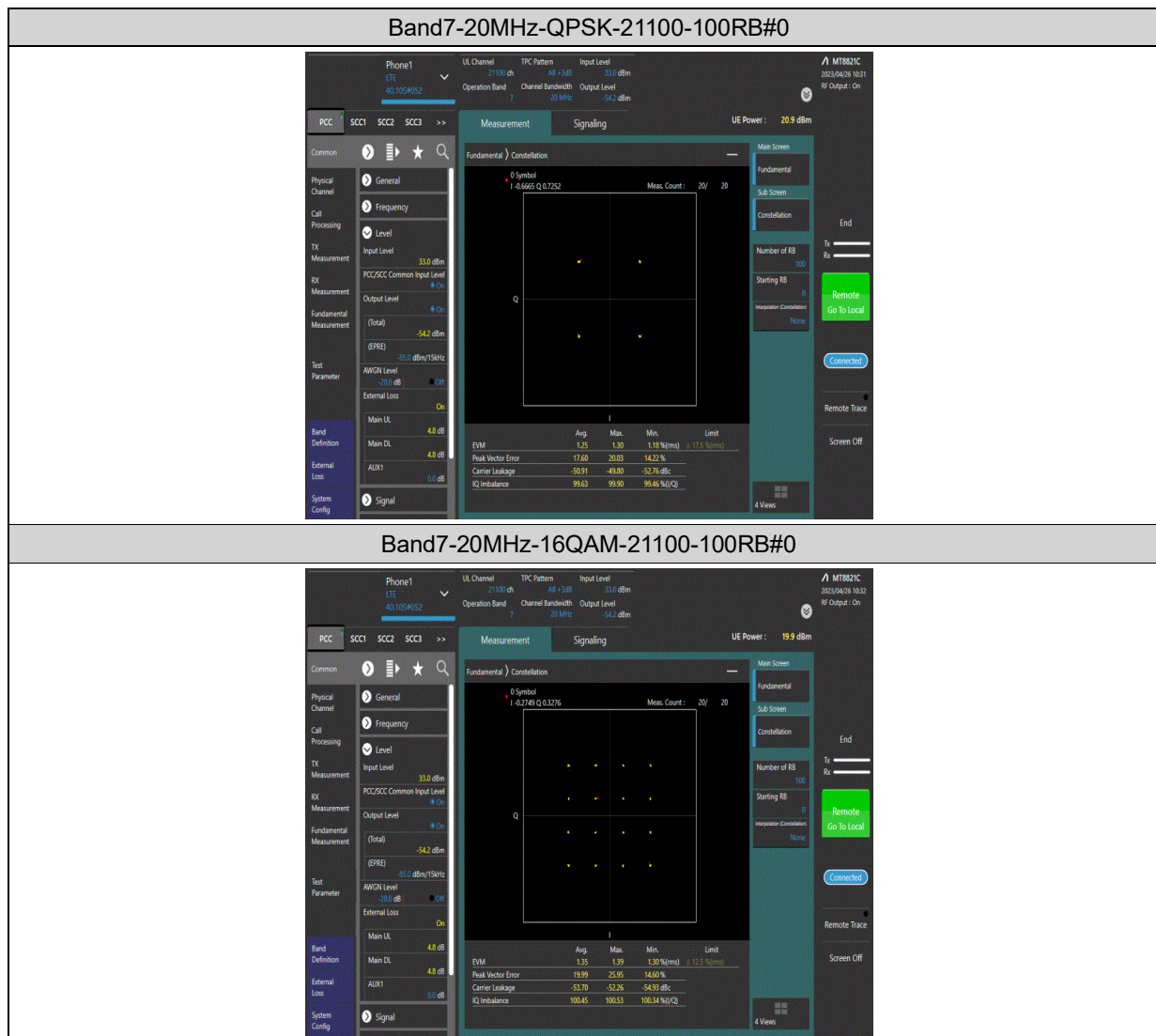
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Test Graphs



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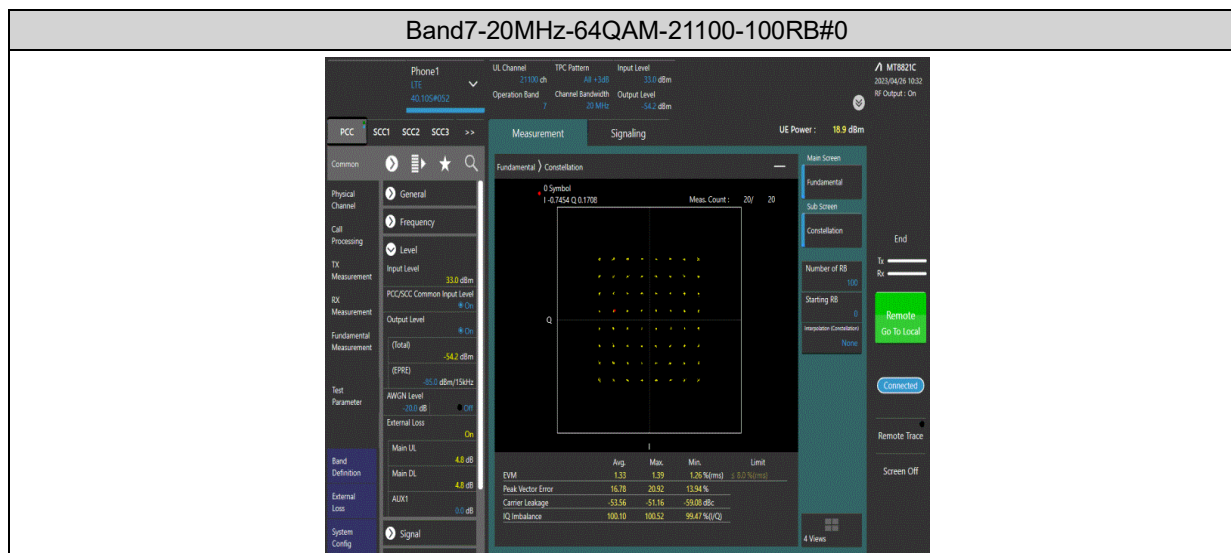
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Band7-20MHz-64QAM-21100-100RB#0



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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	4.462	4.77	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.472	4.79	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.477	4.79	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.472	4.79	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.469	4.82	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.466	4.73	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.472	4.82	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.463	4.77	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.472	4.79	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.933	9.52	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.931	9.48	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.957	9.44	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.920	9.58	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.925	9.52	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.912	9.50	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.936	9.50	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.952	9.54	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.949	9.56	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.440	14.46	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.475	14.52	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.485	14.46	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.459	14.61	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.440	14.55	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.440	14.43	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.441	14.55	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.443	14.52	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.410	14.46	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.867	19.04	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.876	19.24	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.847	19.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.879	19.12	PASS



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Band7	20MHz	16QAM	21100	100RB#0	17.877	18.84	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.820	18.84	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.797	18.84	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.886	18.96	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.865	18.88	PASS



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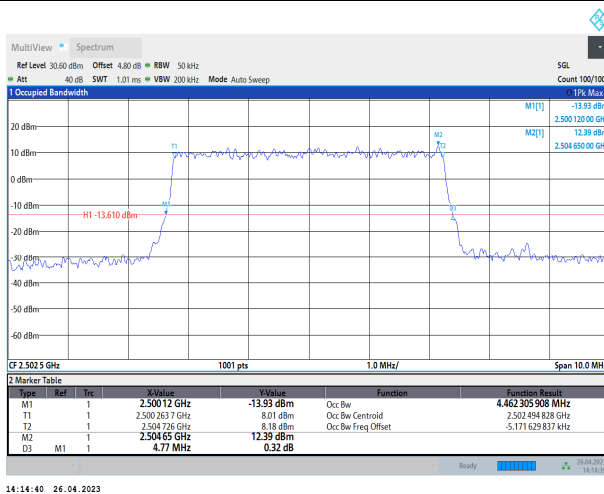
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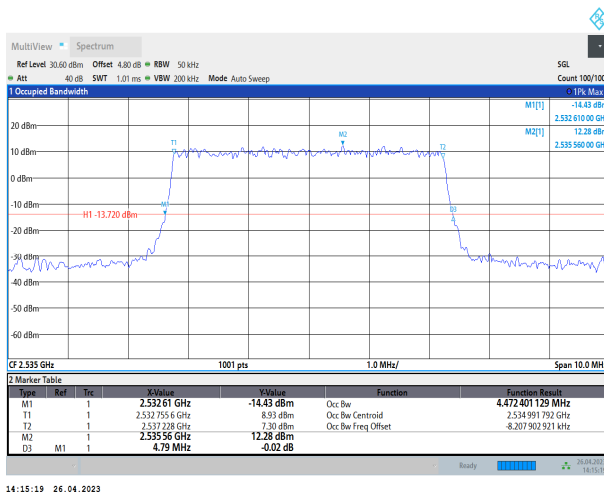
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Test Graphs

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



Band7-5MHz-QPSK-21100-25RB#0

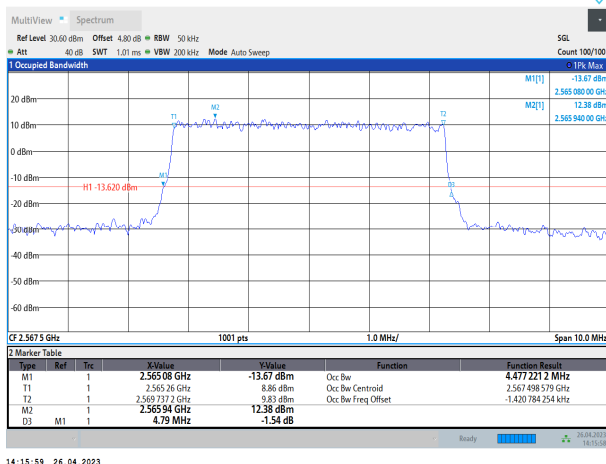


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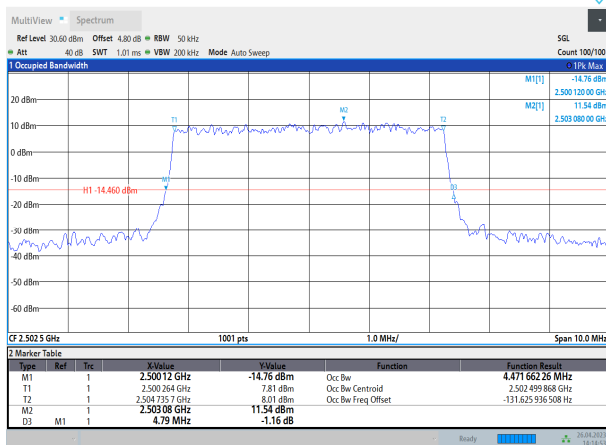
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Band7-5MHz-QPSK-21425-25RB#0



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



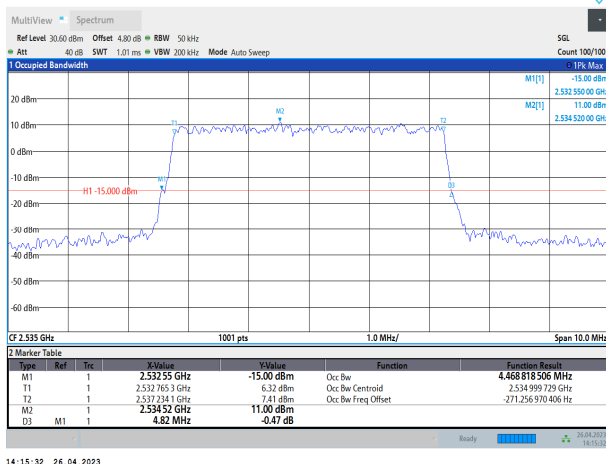
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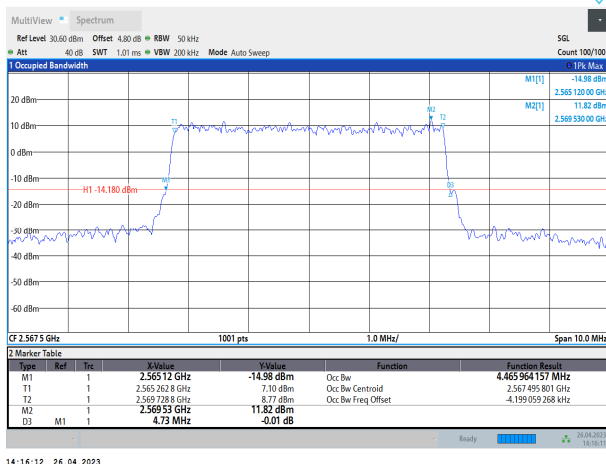
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Band7-5MHz-16QAM-21100-25RB#0



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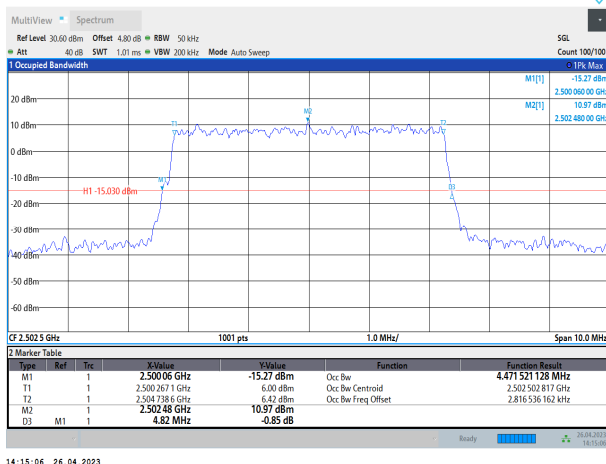


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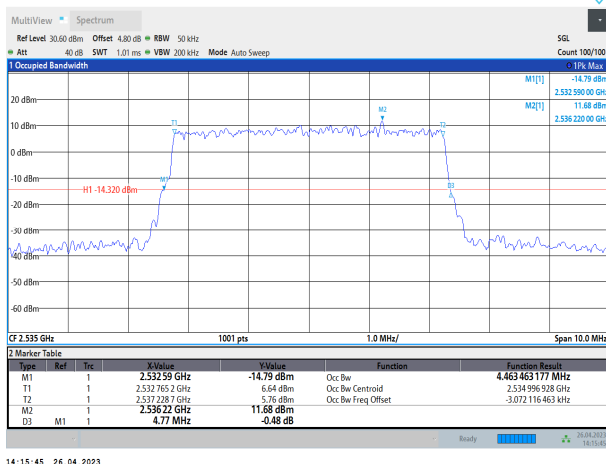
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Band7-5MHz-64QAM-20775-25RB#0



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



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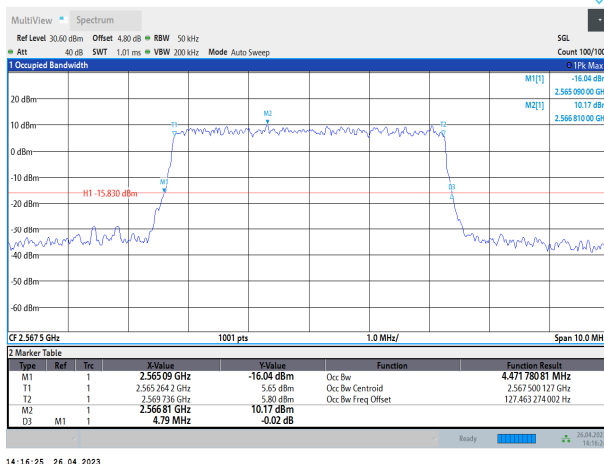
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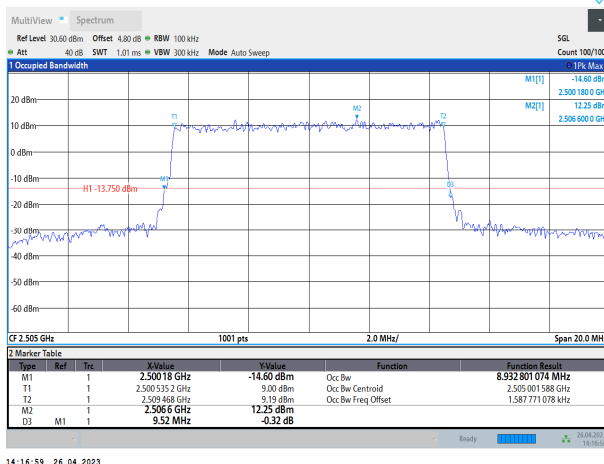
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Band7-5MHz-64QAM-21425-25RB#0



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

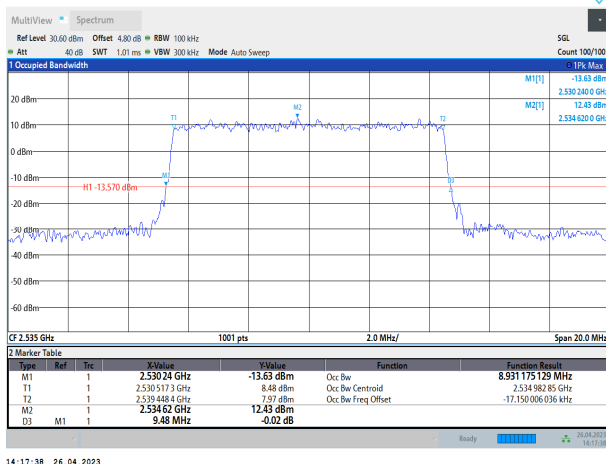


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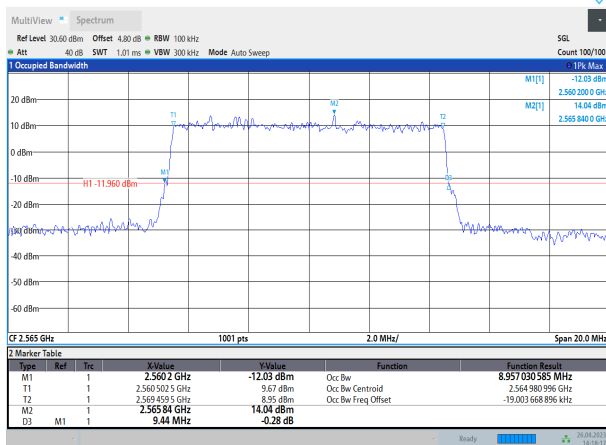
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Band7-10MHz-QPSK-21100-50RB#0



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



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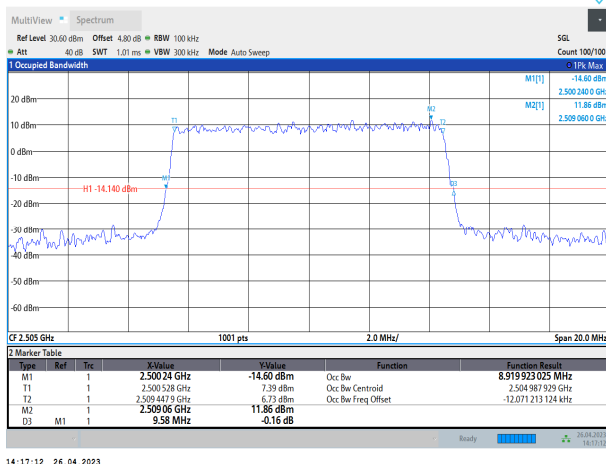
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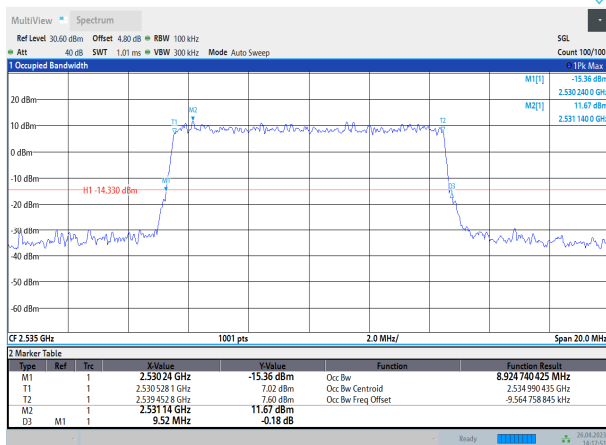
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Band7-10MHz-16QAM-20800-50RB#0



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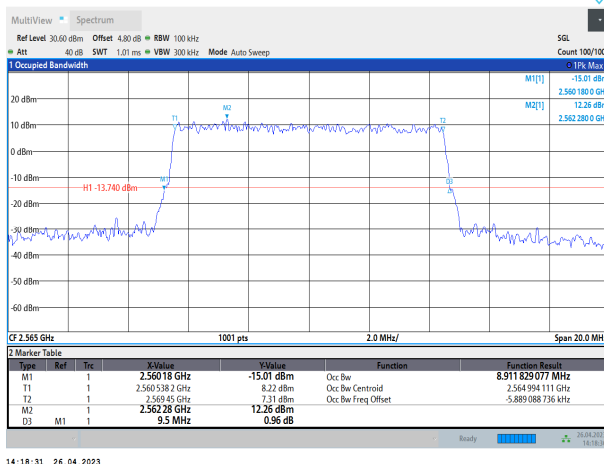
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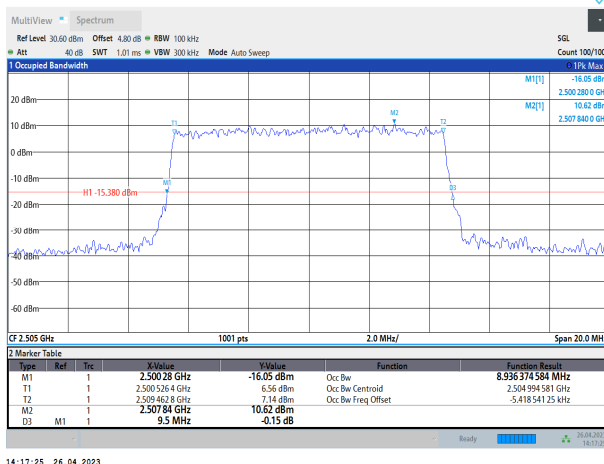
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Band7-10MHz-16QAM-21400-50RB#0



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



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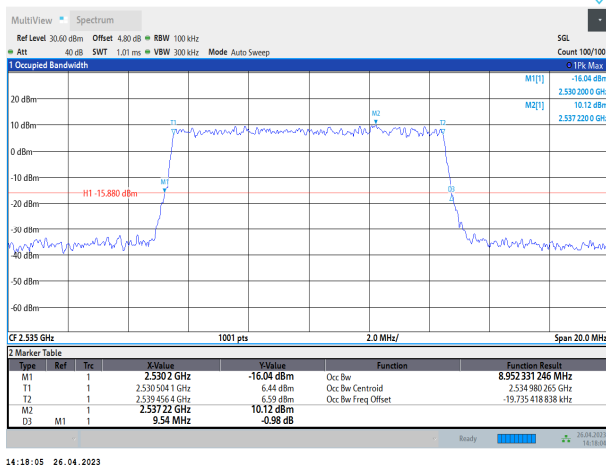
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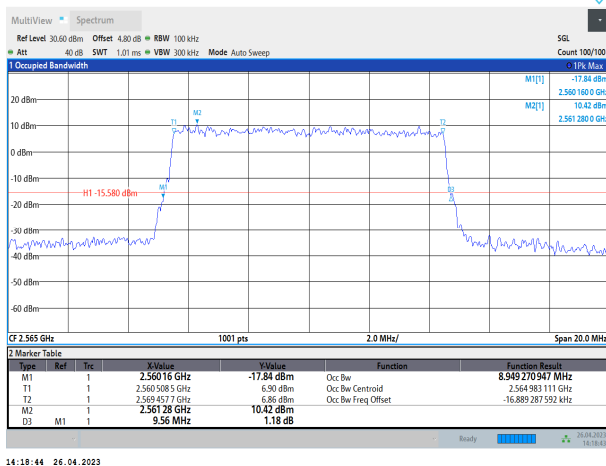
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Band7-10MHz-64QAM-21100-50RB#0



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



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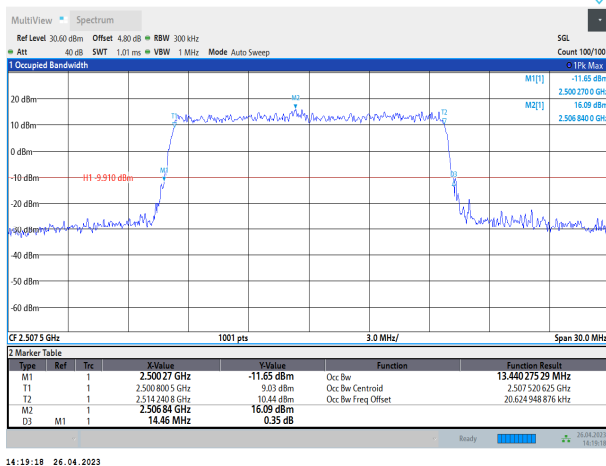
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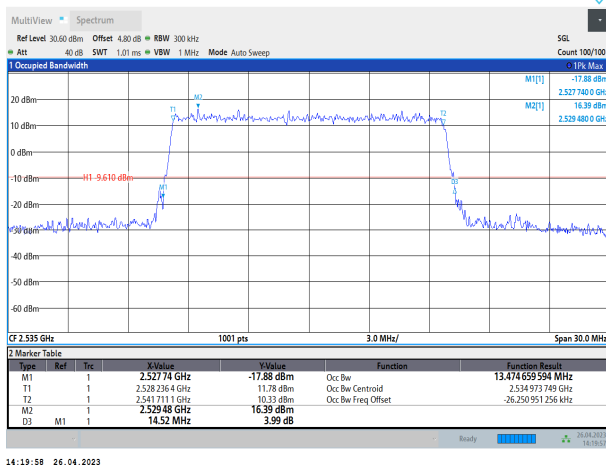
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Band7-15MHz-QPSK-20825-75RB#0



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

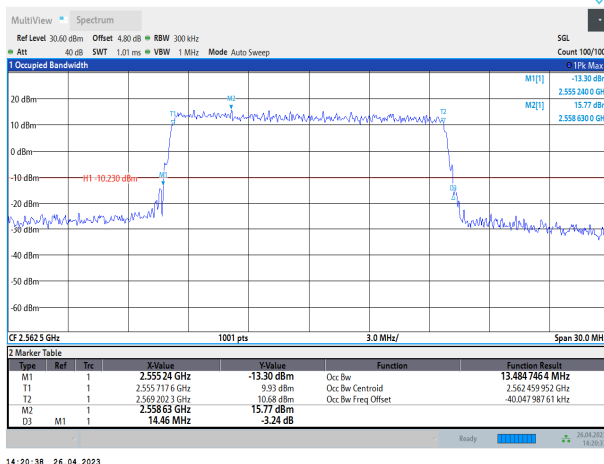


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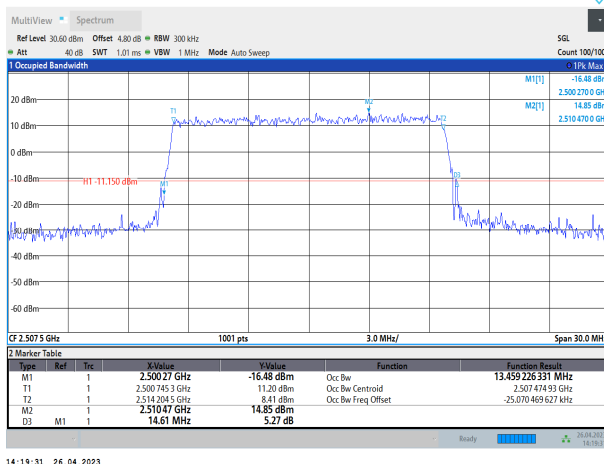
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Band7-15MHz-16QAM-20825-75RB#0



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

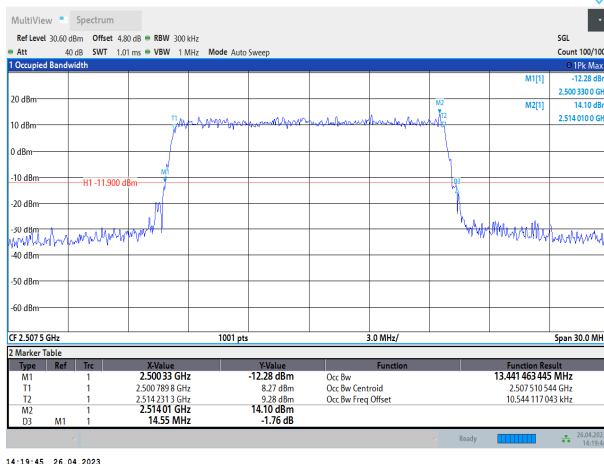


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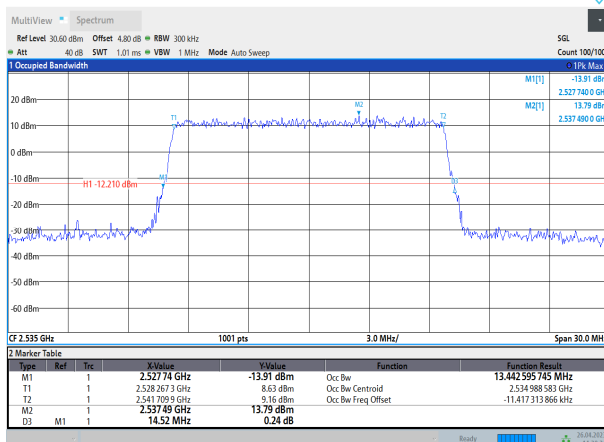
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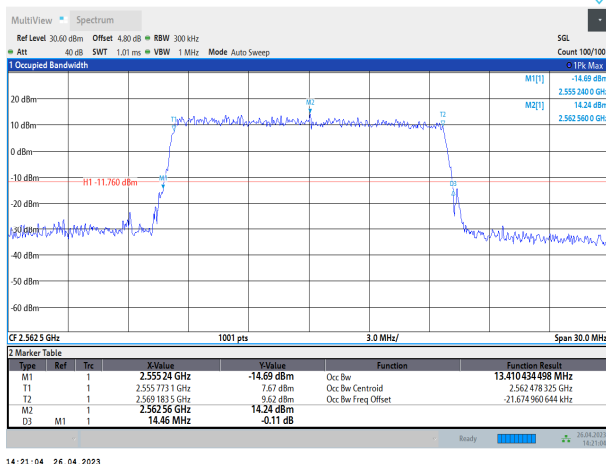
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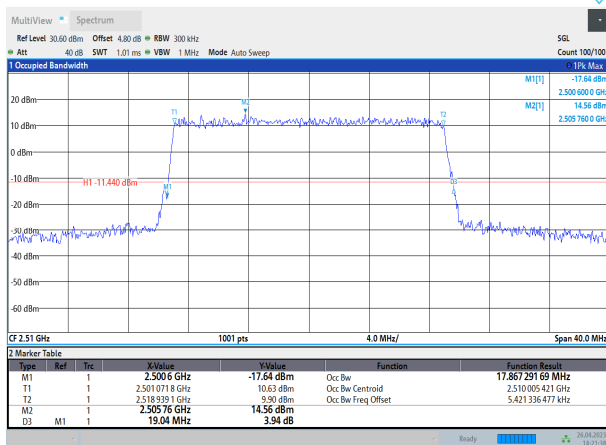
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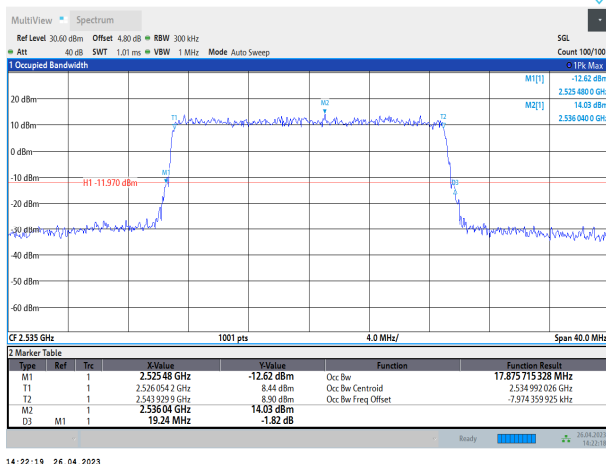
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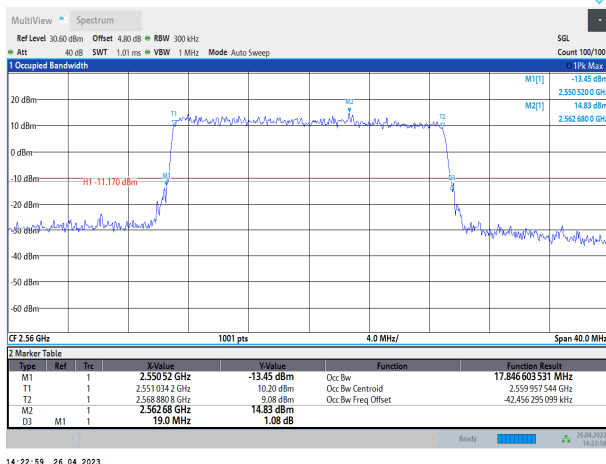
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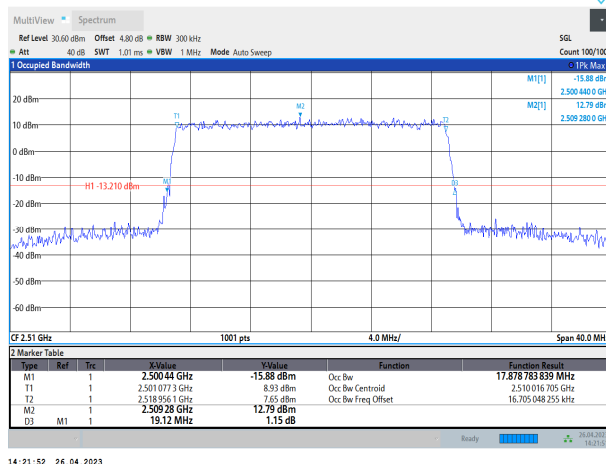


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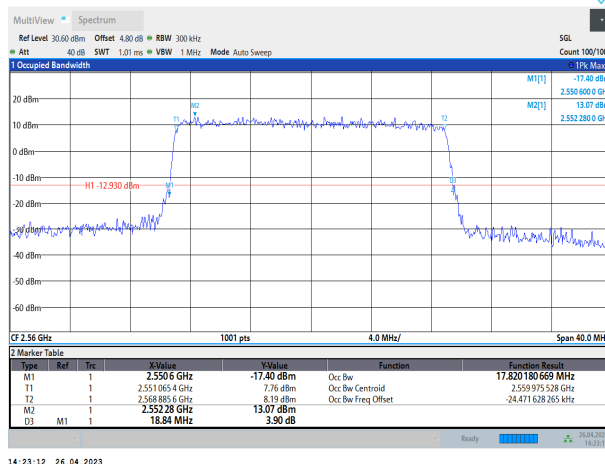


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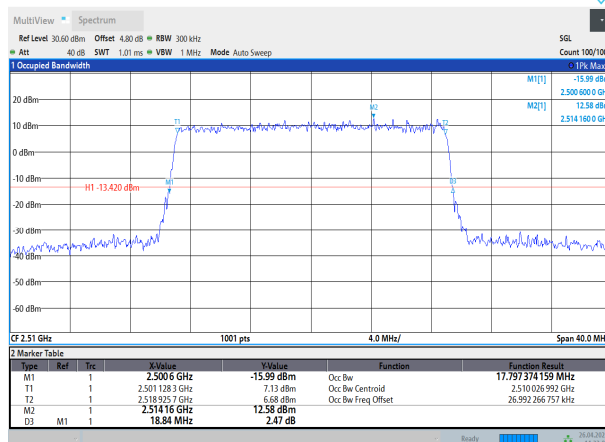
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Band7-20MHz-64QAM-20850-100RB#0



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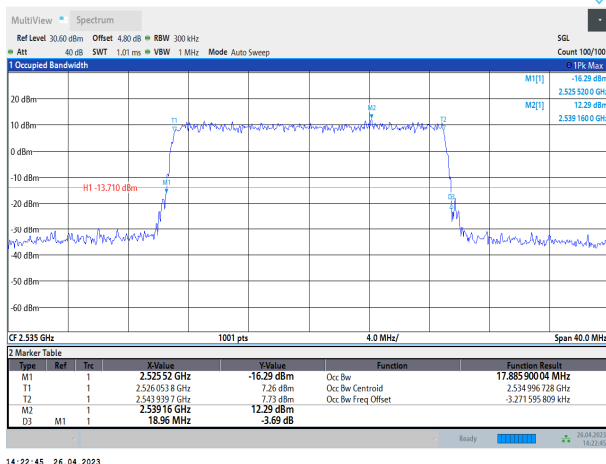
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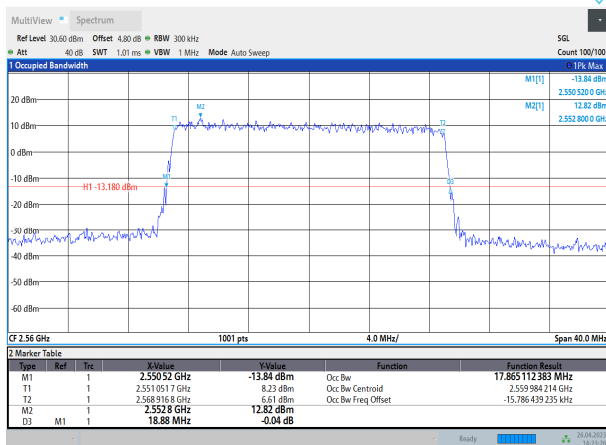
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Band7-20MHz-64QAM-21350-100RB#0



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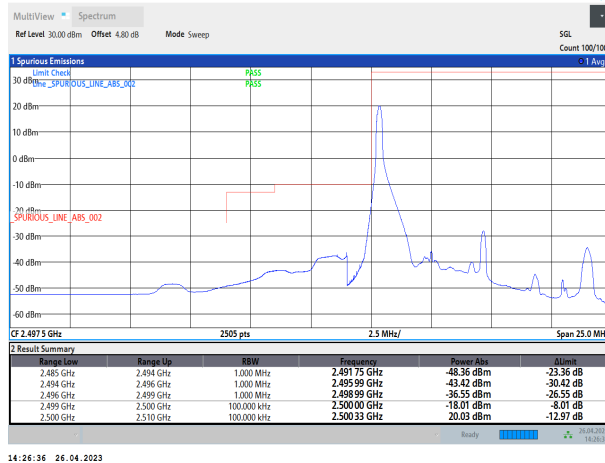
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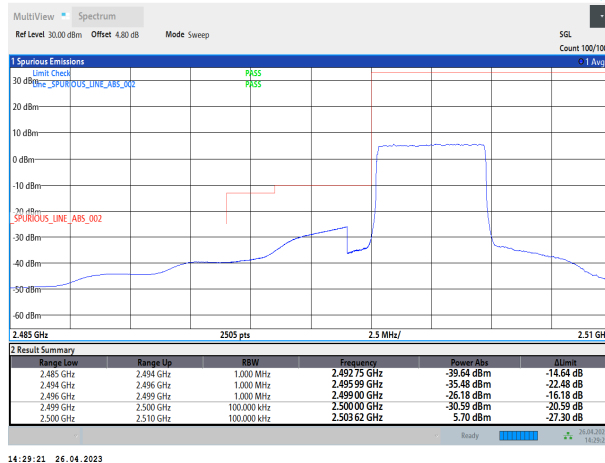
Band Edge

Test Graphs

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



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



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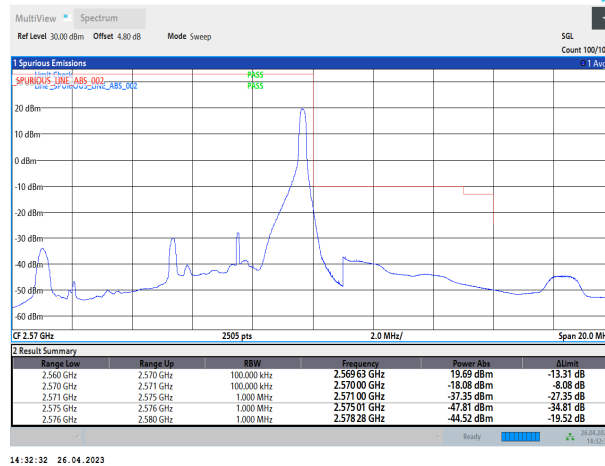
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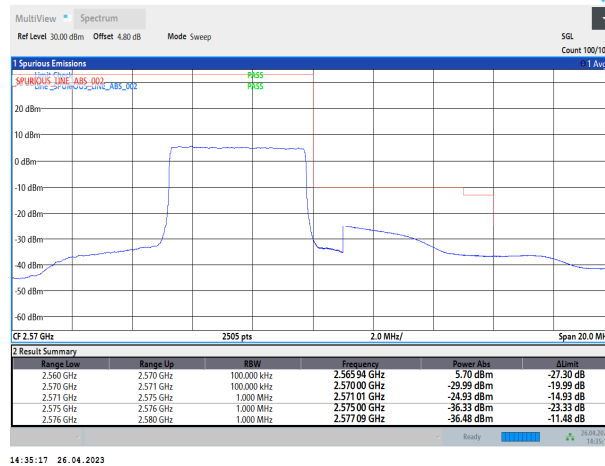
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Band7-5MHz-QPSK-21425-1RB#24



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



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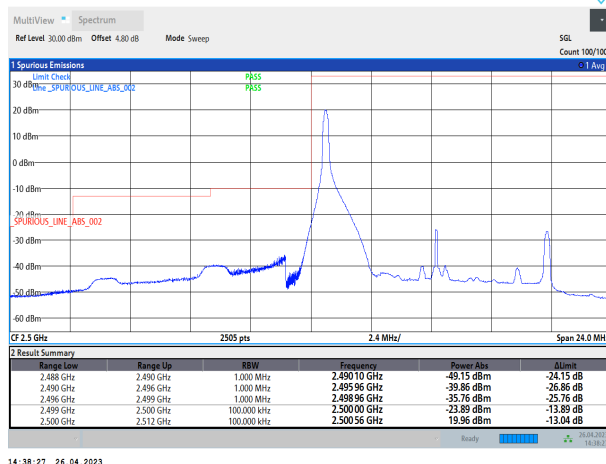
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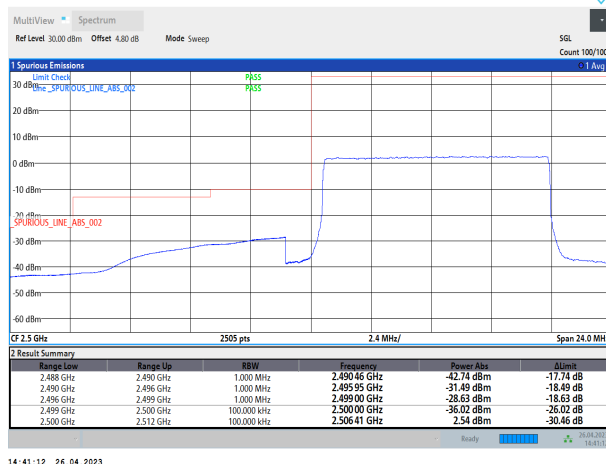
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Band7-10MHz-QPSK-20800-1RB#0



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



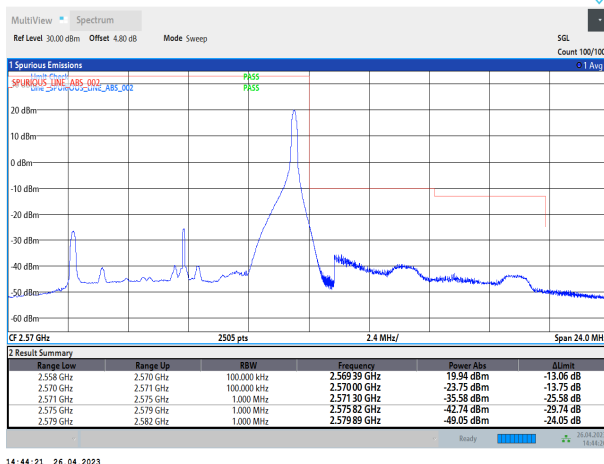
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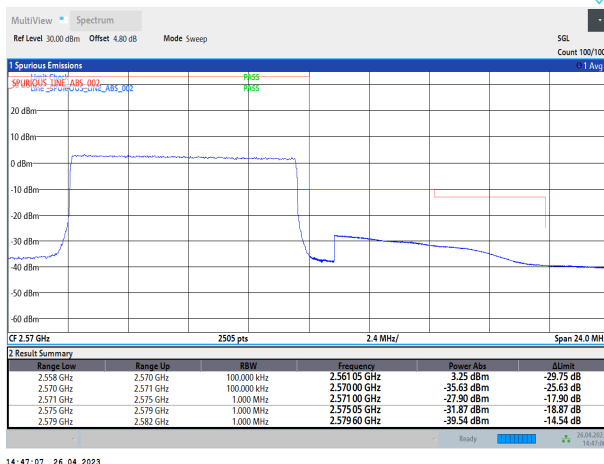
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Band7-10MHz-QPSK-21400-1RB#49



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



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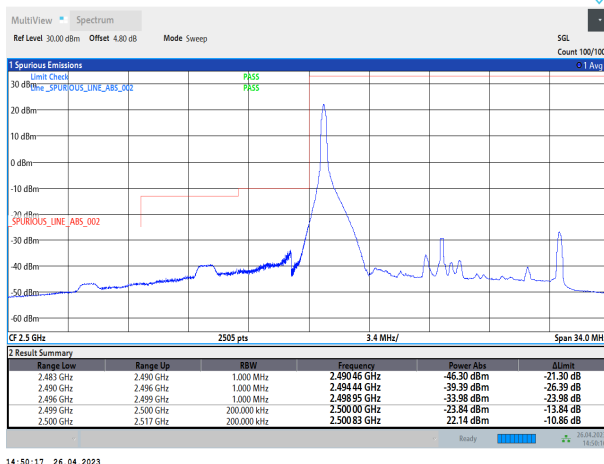
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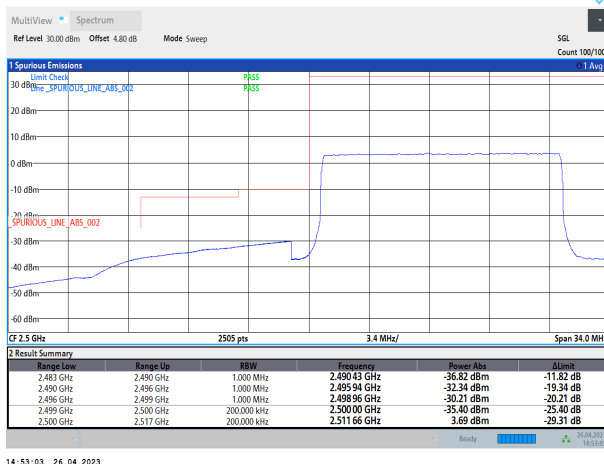
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Band7-15MHz-QPSK-20825-1RB#0



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

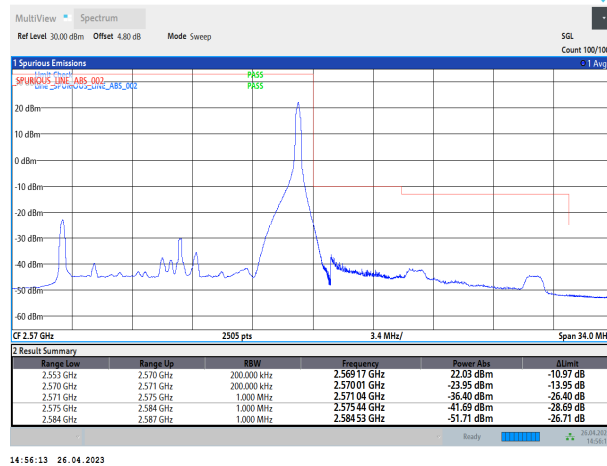


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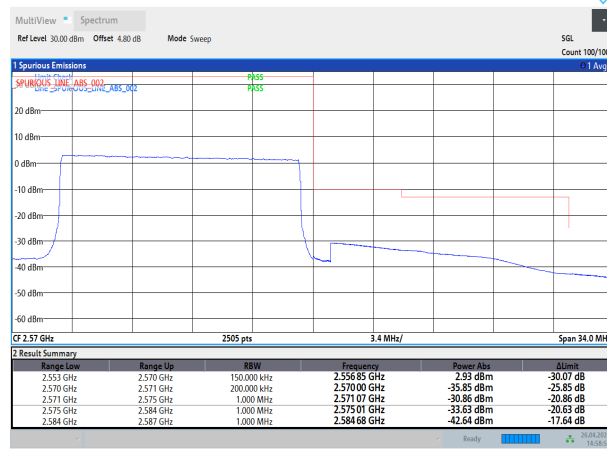
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Band7-15MHz-QPSK-21375-1RB#74



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



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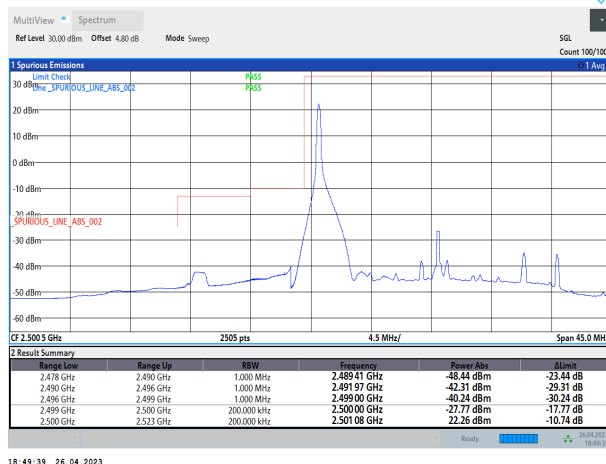
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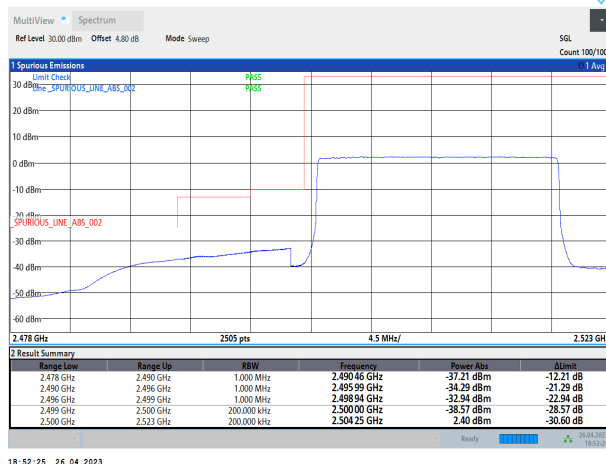
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Band7-20MHz-QPSK-20850-1RB#0



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



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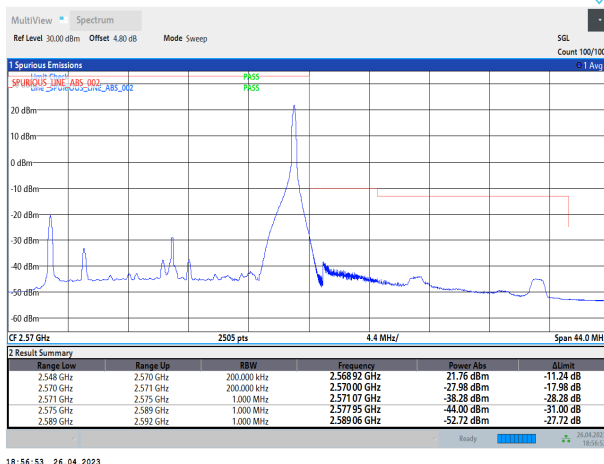
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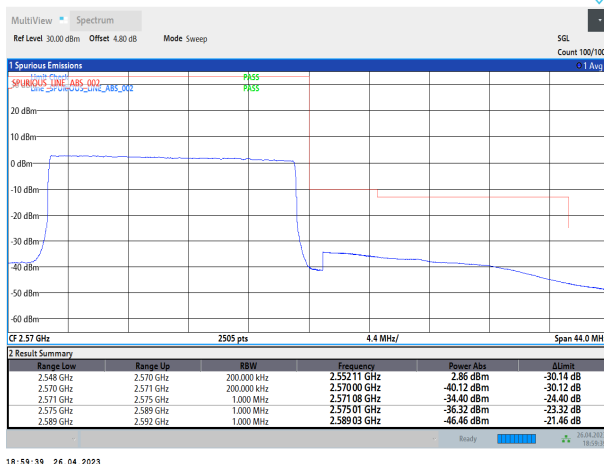
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Band7-20MHz-QPSK-21350-1RB#99



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



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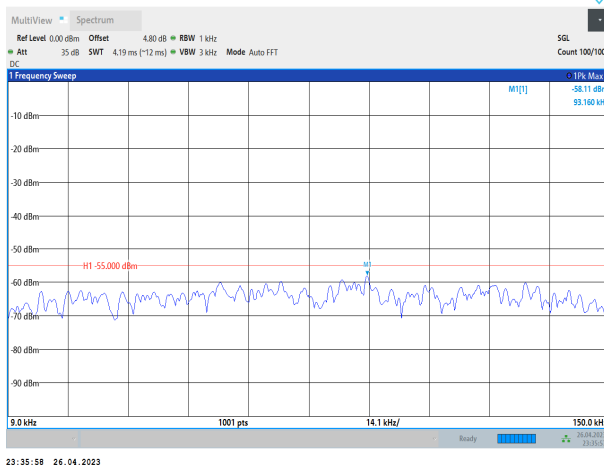
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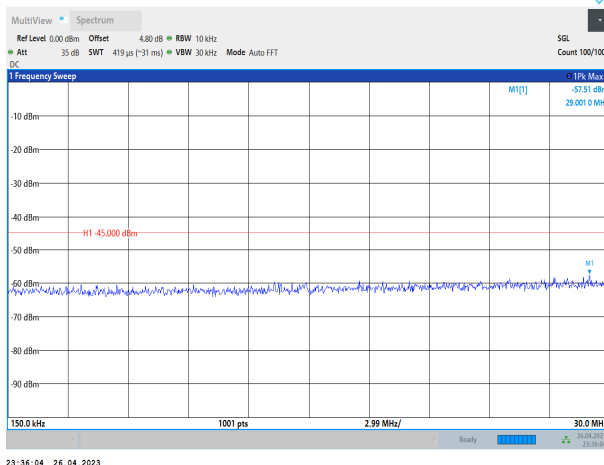
Conducted Spurious Emission

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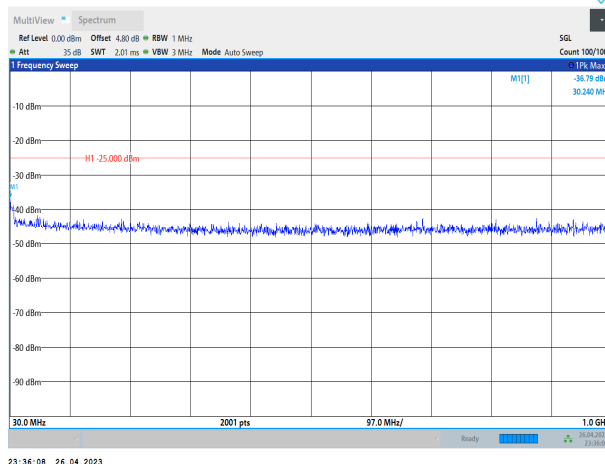
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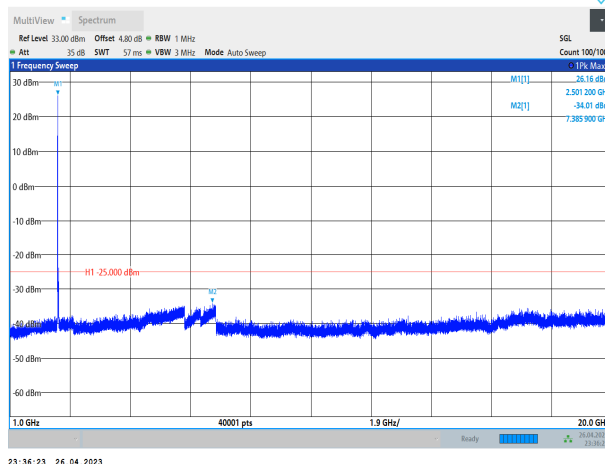
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Band7-20MHz-QPSK-20850-1RB#0-Range4:1000~20000MHz



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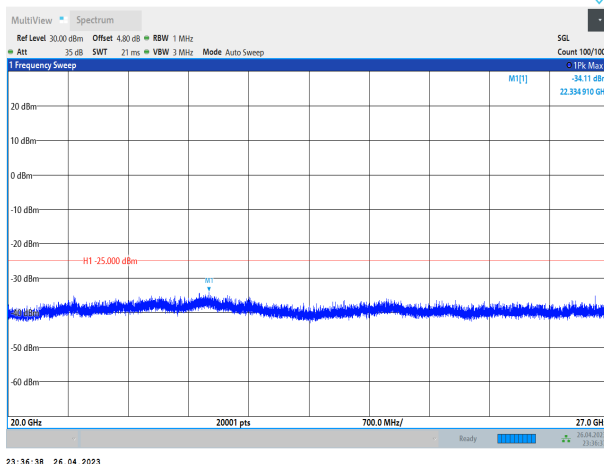
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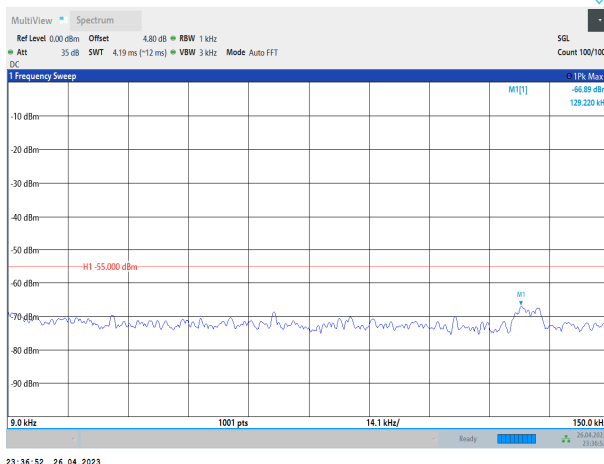
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Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz



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



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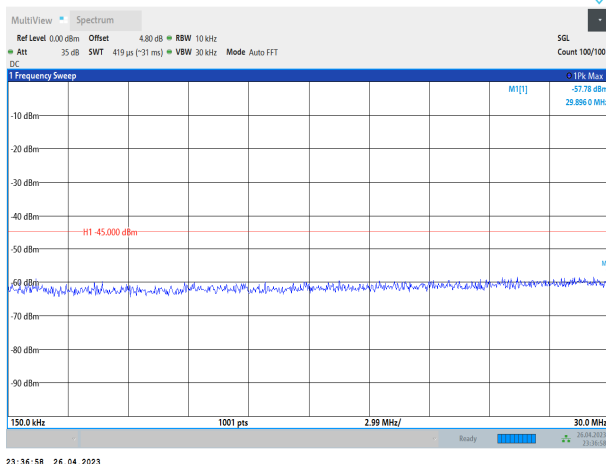
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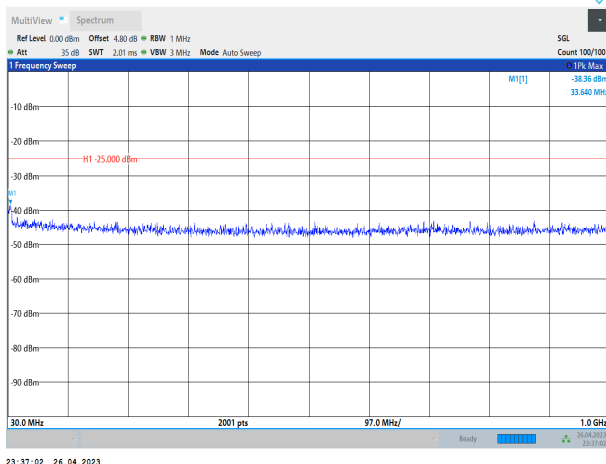
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Band7-20MHz-QPSK-21100-1RB#0-Range3:30~1000MHz



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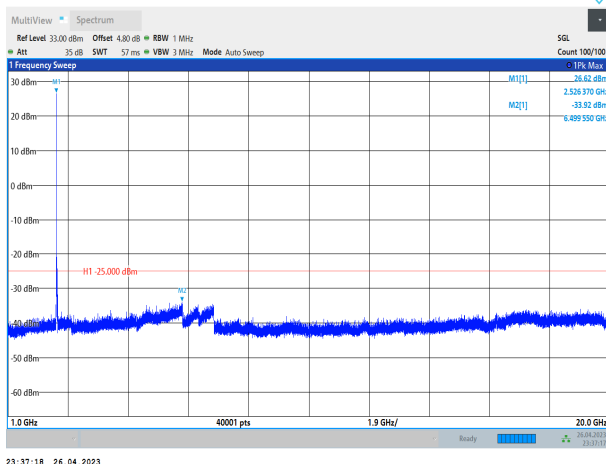
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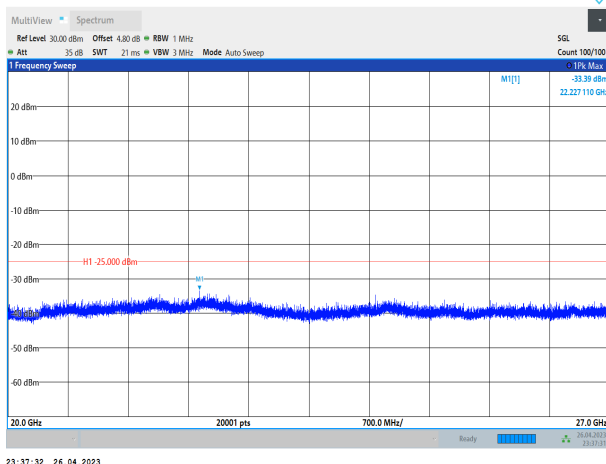
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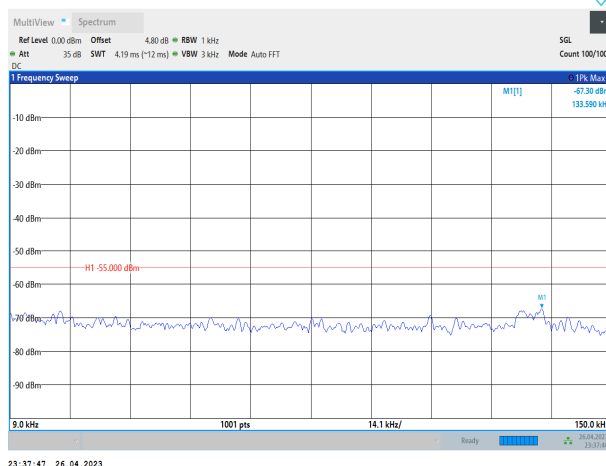


Report No.: SEWM2304000111RG01

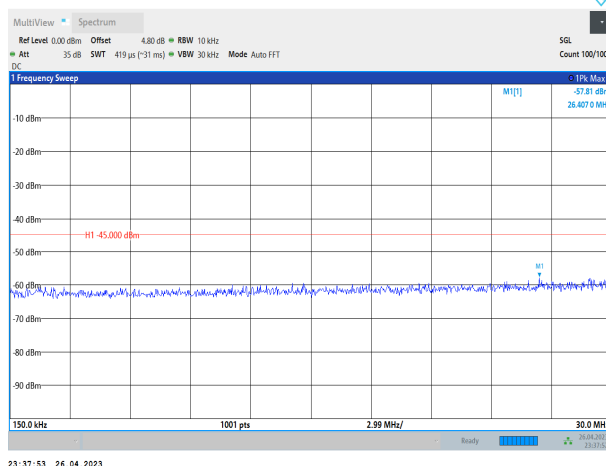
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Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



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



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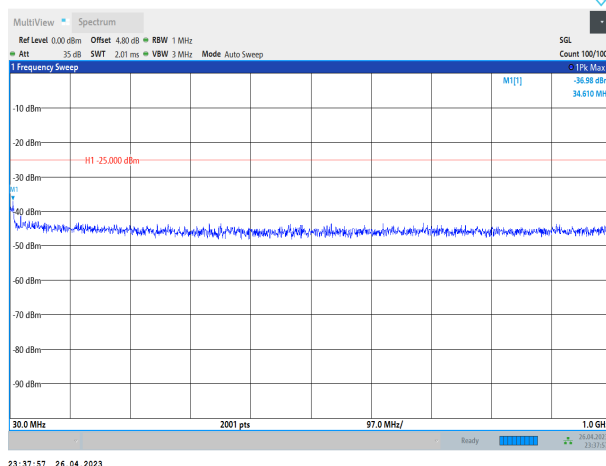
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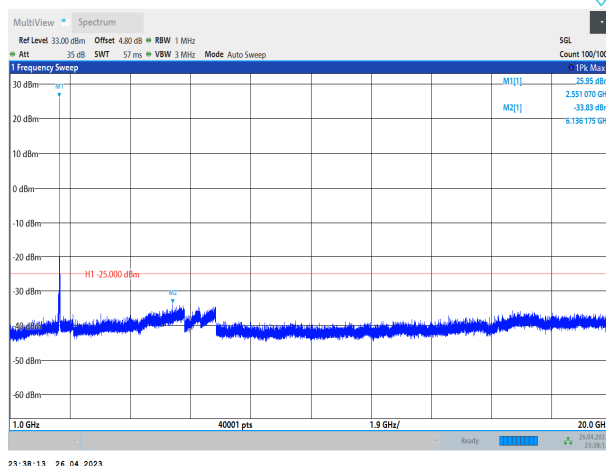
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



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



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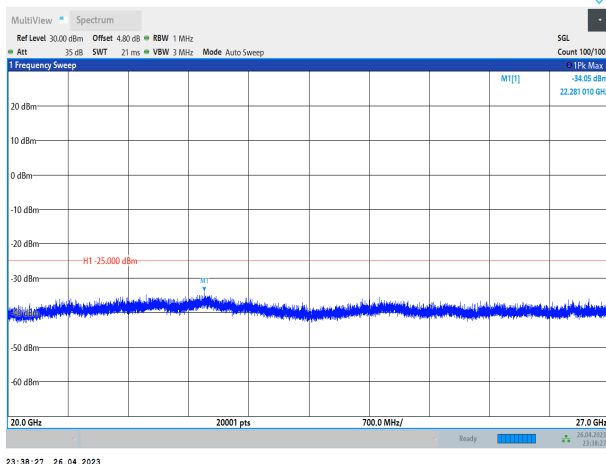
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Band7-20MHz-QPSK-21350-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE B7_ TM1

Test Channel = Low

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	41.82	-45.63	32.88	-66.19	-25.00	41.19	187	226	Horizontal
2	7503.2700	39.82	-43.13	36.44	-62.13	-25.00	37.13	145	1	Horizontal
3	10004.3600	36.36	-39.23	38.50	-59.64	-25.00	34.64	162	134	Horizontal
4	12505.4500	35.29	-36.99	39.18	-57.78	-25.00	32.78	139	209	Horizontal
5	15006.5400	33.11	-34.65	39.21	-57.59	-25.00	32.59	256	1	Horizontal
6	17507.6300	32.88	-34.95	39.22	-58.11	-25.00	33.11	168	165	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	5002.1800	50.64	-45.63	32.88	-57.37	-25.00	32.37	187	273	Vertical
2	7503	47.46	-43.13	36.44	-54.50	-25.00	29.50	162	287	Vertical
3	10004.25	40.08	-39.23	38.50	-55.92	-25.00	30.92	155	196	Vertical
4	12505.4500	34.86	-36.99	39.18	-58.21	-25.00	33.21	293	242	Vertical
5	15006.5400	32.62	-34.65	39.21	-58.08	-25.00	33.08	218	165	Vertical
6	17507.6300	32.97	-34.95	39.22	-58.02	-25.00	33.02	183	59	Vertical



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Test Band = LTE B7_ TM1

Test Channel = Mid

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.1800	51.99	-45.50	32.91	-55.86	-25.00	30.86	118	72	Horizontal
2	7578	46.40	-42.98	36.40	-55.44	-25.00	30.44	182	240	Horizontal
3	10104.3600	35.80	-39.14	38.66	-59.94	-25.00	34.94	192	255	Horizontal
4	12630.4500	34.27	-37.33	39.33	-58.99	-25.00	33.99	236	344	Horizontal
5	15156.5400	31.96	-34.37	39.01	-58.66	-25.00	33.66	187	195	Horizontal
6	17682.6300	33.28	-33.89	40.06	-55.81	-25.00	30.81	159	314	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	5052	53.74	-45.50	32.91	-54.11	-25.00	29.11	100	60	Vertical
2	7578.2700	42.03	-42.97	36.40	-59.80	-25.00	34.80	114	16	Vertical
3	10104.3600	37.19	-39.14	38.66	-58.55	-25.00	33.55	132	0	Vertical
4	12630.4500	34.15	-37.33	39.33	-59.11	-25.00	34.11	169	357	Vertical
5	15156.5400	32.09	-34.37	39.01	-58.53	-25.00	33.53	158	195	Vertical
6	17682.6300	34.07	-33.89	40.06	-55.02	-25.00	30.02	167	330	Vertical



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Test Band = LTE B7_ TM1

Test Channel = High

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.1800	55.04	-45.37	32.94	-52.65	-25.00	27.65	105	74	Horizontal
2	7653.2700	40.69	-43.03	36.49	-61.11	-25.00	36.11	149	89	Horizontal
3	10204.3600	35.49	-39.48	38.81	-60.44	-25.00	35.44	168	1	Horizontal
4	12755.4500	33.69	-36.76	39.55	-58.78	-25.00	33.78	121	1	Horizontal
5	15306.5400	31.84	-34.36	38.82	-58.96	-25.00	33.96	259	357	Horizontal
6	17857.6300	33.59	-34.56	41.24	-54.99	-25.00	29.99	136	1	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.1800	49.22	-45.37	32.94	-58.47	-25.00	33.47	169	44	Vertical
2	7653.2700	41.32	-43.03	36.49	-60.48	-25.00	35.48	251	357	Vertical
3	10204.3600	37.56	-39.48	38.81	-58.37	-25.00	33.37	136	346	Vertical
4	12755.4500	33.30	-36.76	39.55	-59.17	-25.00	34.17	124	357	Vertical
5	15306.5400	32.48	-34.36	38.82	-58.32	-25.00	33.32	158	121	Vertical
6	17857.6300	33.65	-34.56	41.24	-54.93	-25.00	29.93	195	301	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) - Preamp (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	-6.10	-0.002406	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-3.70	-0.001460	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-7.60	-0.002998	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-13.70	-0.005404	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	2.20	0.000868	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-13.70	-0.005404	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-7.90	-0.003116	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-3.60	-0.001420	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-10.80	-0.004260	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-2.10	-0.000828	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	6.50	0.002564	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	7.40	0.002919	PASS

---End of Attachment---



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