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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	23.42	26.85	33	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.32	26.75	33	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.31	26.74	33	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.16	24.59	33	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.51	26.94	33	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.48	26.91	33	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.44	26.87	33	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.34	24.77	33	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.2	26.63	33	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.19	26.62	33	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.15	26.58	33	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.04	24.47	33	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.93	26.36	33	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.86	26.29	33	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.85	26.28	33	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.23	24.66	33	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.72	26.15	33	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.62	26.05	33	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.58	26.01	33	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.58	25.01	33	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.37	25.8	33	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.38	25.81	33	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.26	25.69	33	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.25	24.68	33	PASS
Band7	5MHz	64QAM	20775	1RB#0	21.19	24.62	33	PASS
Band7	5MHz	64QAM	20775	1RB#12	21.16	24.59	33	PASS
Band7	5MHz	64QAM	20775	1RB#24	21.15	24.58	33	PASS



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Band7	5MHz	64QAM	20775	25RB#0	19.74	23.17	33	PASS
Band7	5MHz	64QAM	21100	1RB#0	21.64	25.07	33	PASS
Band7	5MHz	64QAM	21100	1RB#12	21.63	25.06	33	PASS
Band7	5MHz	64QAM	21100	1RB#24	21.57	25	33	PASS
Band7	5MHz	64QAM	21100	25RB#0	19.88	23.31	33	PASS
Band7	5MHz	64QAM	21425	1RB#0	21.29	24.72	33	PASS
Band7	5MHz	64QAM	21425	1RB#12	21.34	24.77	33	PASS
Band7	5MHz	64QAM	21425	1RB#24	21.29	24.72	33	PASS
Band7	5MHz	64QAM	21425	25RB#0	19.64	23.07	33	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.47	26.9	33	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.45	26.88	33	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.45	26.88	33	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.23	24.66	33	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.58	27.01	33	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.67	27.1	33	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.57	27	33	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.32	24.75	33	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.28	26.71	33	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.27	26.7	33	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.24	26.67	33	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.02	24.45	33	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.5	25.93	33	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.39	25.82	33	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.51	25.94	33	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.36	24.79	33	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.67	26.1	33	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.68	26.11	33	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.68	26.11	33	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.51	24.94	33	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.82	26.25	33	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.78	26.21	33	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.66	26.09	33	PASS



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Band7	10MHz	16QAM	21400	50RB#0	21.11	24.54	33	PASS
Band7	10MHz	64QAM	20800	1RB#0	21.48	24.91	33	PASS
Band7	10MHz	64QAM	20800	1RB#24	21.49	24.92	33	PASS
Band7	10MHz	64QAM	20800	1RB#49	21.52	24.95	33	PASS
Band7	10MHz	64QAM	20800	50RB#0	19.76	23.19	33	PASS
Band7	10MHz	64QAM	21100	1RB#0	21.62	25.05	33	PASS
Band7	10MHz	64QAM	21100	1RB#24	21.72	25.15	33	PASS
Band7	10MHz	64QAM	21100	1RB#49	21.61	25.04	33	PASS
Band7	10MHz	64QAM	21100	50RB#0	19.98	23.41	33	PASS
Band7	10MHz	64QAM	21400	1RB#0	21.07	24.5	33	PASS
Band7	10MHz	64QAM	21400	1RB#24	21.05	24.48	33	PASS
Band7	10MHz	64QAM	21400	1RB#49	21	24.43	33	PASS
Band7	10MHz	64QAM	21400	50RB#0	19.68	23.11	33	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.42	26.85	33	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.38	26.81	33	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.48	26.91	33	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.21	24.64	33	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.52	26.95	33	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.56	26.99	33	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.49	26.92	33	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.28	24.71	33	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.43	26.86	33	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.29	26.72	33	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.21	26.64	33	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.05	24.48	33	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.83	26.26	33	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.76	26.19	33	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.82	26.25	33	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.3	24.73	33	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.89	26.32	33	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.88	26.31	33	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.89	26.32	33	PASS



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Band7	15MHz	16QAM	21375	1RB#0	22.78	26.21	33	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.77	26.2	33	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.59	26.02	33	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.14	24.57	33	PASS
Band7	15MHz	64QAM	20825	1RB#0	21.12	24.55	33	PASS
Band7	15MHz	64QAM	20825	1RB#38	21.18	24.61	33	PASS
Band7	15MHz	64QAM	20825	1RB#74	21.2	24.63	33	PASS
Band7	15MHz	64QAM	20825	75RB#0	19.67	23.1	33	PASS
Band7	15MHz	64QAM	21100	1RB#0	21.32	24.75	33	PASS
Band7	15MHz	64QAM	21100	1RB#38	21.24	24.67	33	PASS
Band7	15MHz	64QAM	21100	1RB#74	21.23	24.66	33	PASS
Band7	15MHz	64QAM	21100	75RB#0	19.94	23.37	33	PASS
Band7	15MHz	64QAM	21375	1RB#0	21.04	24.47	33	PASS
Band7	15MHz	64QAM	21375	1RB#38	21.03	24.46	33	PASS
Band7	15MHz	64QAM	21375	1RB#74	20.95	24.38	33	PASS
Band7	15MHz	64QAM	21375	75RB#0	19.76	23.19	33	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.38	26.81	33	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.47	26.9	33	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.48	26.91	33	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.23	24.66	33	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.54	26.97	33	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.58	27.01	33	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.52	26.95	33	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.28	24.71	33	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.41	26.84	33	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.36	26.79	33	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.25	26.68	33	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.06	24.49	33	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.76	26.19	33	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.87	26.3	33	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.92	26.35	33	PASS



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Band7	20MHz	16QAM	21100	1RB#0	22.96	26.39	33	PASS
Band7	20MHz	16QAM	21100	1RB#49	23.03	26.46	33	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.98	26.41	33	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.38	24.81	33	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.36	25.79	33	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.42	25.85	33	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.3	25.73	33	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.18	24.61	33	PASS
Band7	20MHz	64QAM	20850	1RB#0	21.11	24.54	33	PASS
Band7	20MHz	64QAM	20850	1RB#49	21.18	24.61	33	PASS
Band7	20MHz	64QAM	20850	1RB#99	21.16	24.59	33	PASS
Band7	20MHz	64QAM	20850	100RB#0	19.9	23.33	33	PASS
Band7	20MHz	64QAM	21100	1RB#0	21.22	24.65	33	PASS
Band7	20MHz	64QAM	21100	1RB#49	21.32	24.75	33	PASS
Band7	20MHz	64QAM	21100	1RB#99	21.22	24.65	33	PASS
Band7	20MHz	64QAM	21100	100RB#0	19.93	23.36	33	PASS
Band7	20MHz	64QAM	21350	1RB#0	21.41	24.84	33	PASS
Band7	20MHz	64QAM	21350	1RB#49	21.47	24.9	33	PASS
Band7	20MHz	64QAM	21350	1RB#99	21.23	24.66	33	PASS
Band7	20MHz	64QAM	21350	100RB#0	19.76	23.19	33	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	5.44	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.56	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.70	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.92	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.26	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.22	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.32	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.56	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.56	13	PASS



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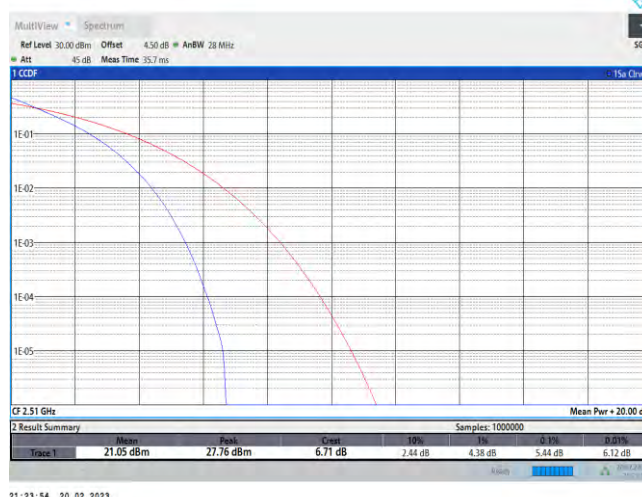
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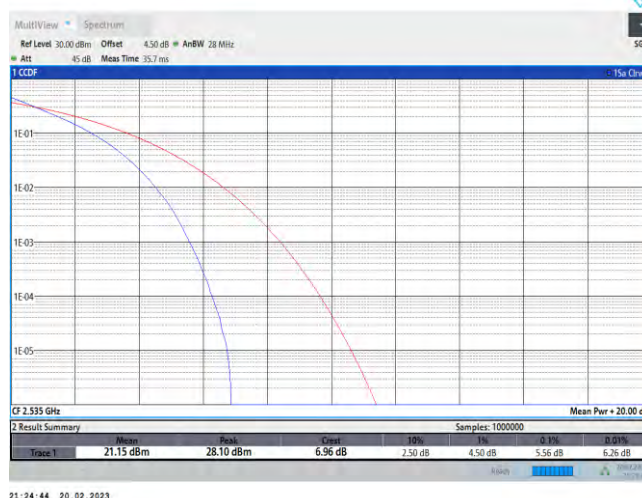
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Test Graphs

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



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



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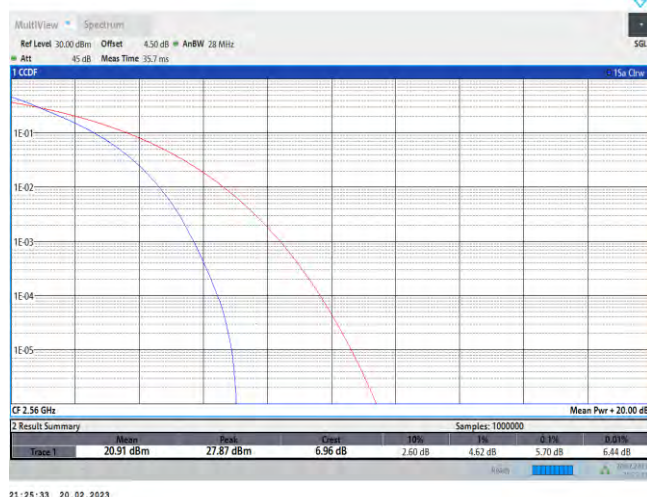
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Band7-20MHz-QPSK-21350-100RB#0



21:25:33 20.02.2023

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



21:24:11 20.02.2023



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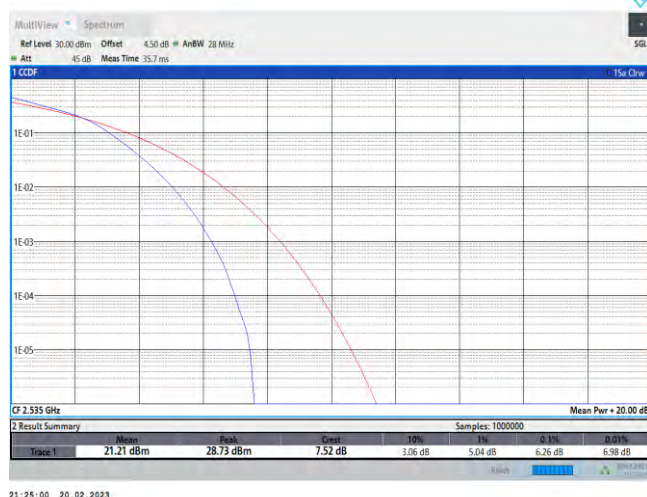
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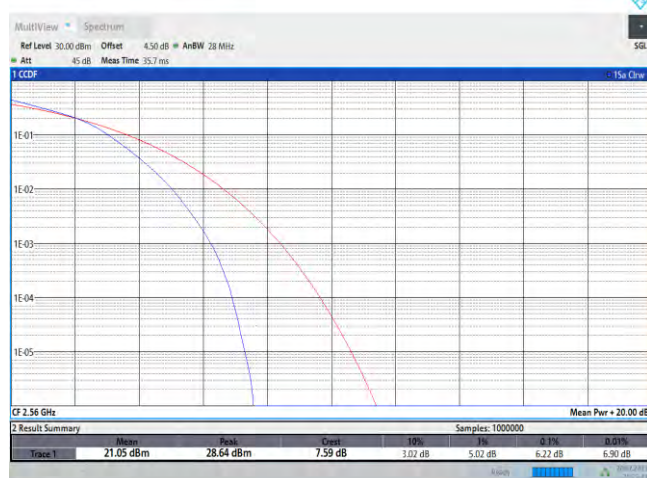
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Band7-20MHz-16QAM-21100-100RB#0



21:25:00 20.02.2023

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



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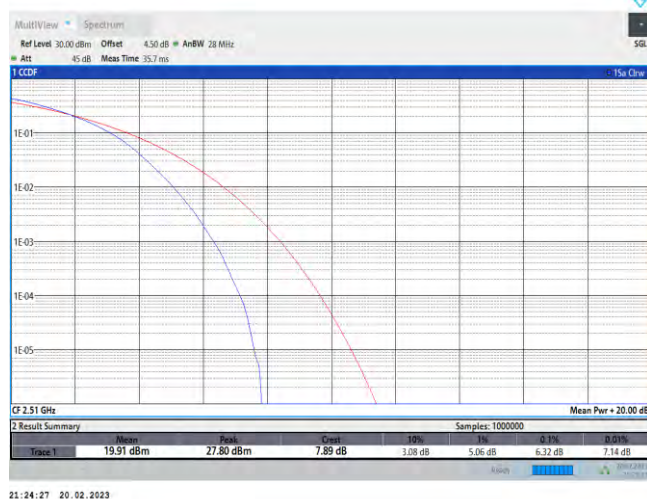
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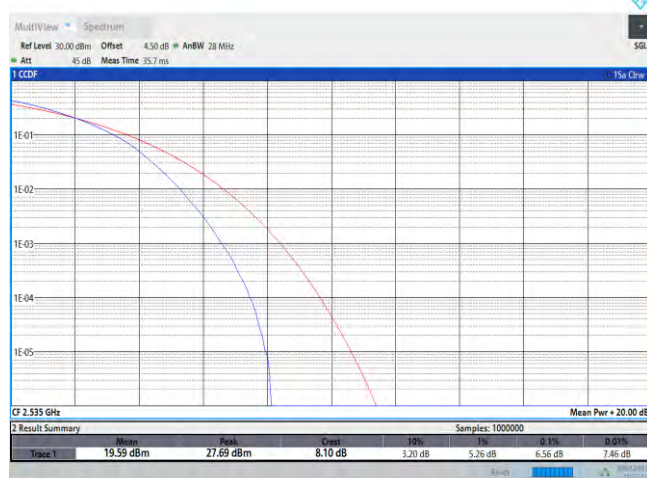
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Band7-20MHz-64QAM-20850-100RB#0



21:24:27 20.02.2023

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



21:25:16 20.02.2023



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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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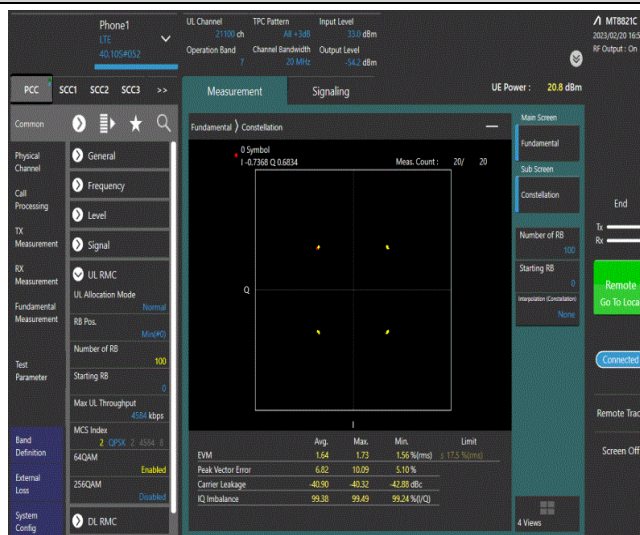
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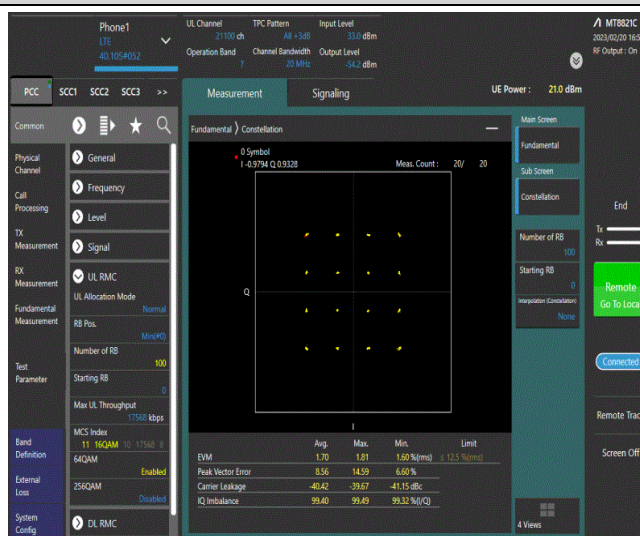
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Test Graphs

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



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



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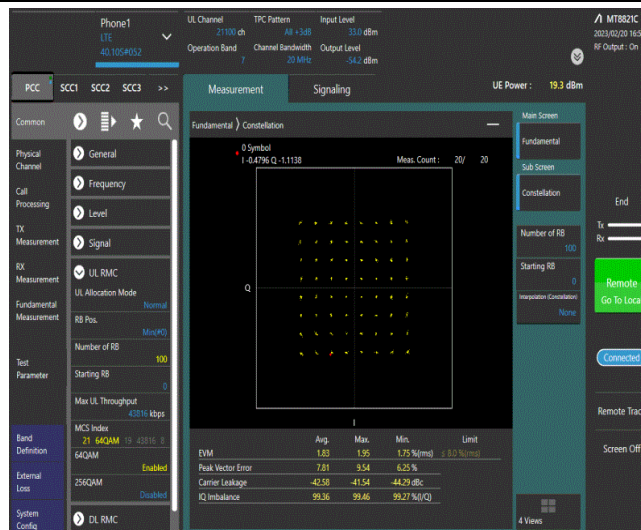
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Band7-20MHz-64QAM-21100-100RB#0



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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	4.472	4.91	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.469	4.90	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.471	4.91	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.466	4.93	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.469	4.94	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.47	4.93	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.483	4.92	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.479	4.93	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.476	4.92	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.947	9.78	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.937	9.78	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.936	9.78	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.915	9.76	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.921	9.74	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.916	9.74	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.947	9.76	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.944	9.78	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.951	9.86	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.481	15.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.471	15.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.484	14.97	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.479	15.12	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.476	15.09	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.492	15.15	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.458	15.03	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.465	15.03	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.48	15.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.888	19.56	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.916	19.56	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.891	19.60	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.86	19.84	PASS



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Band7	20MHz	16QAM	21100	100RB#0	17.88	19.60	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.885	19.60	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.863	19.60	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.859	19.68	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.843	19.60	PASS



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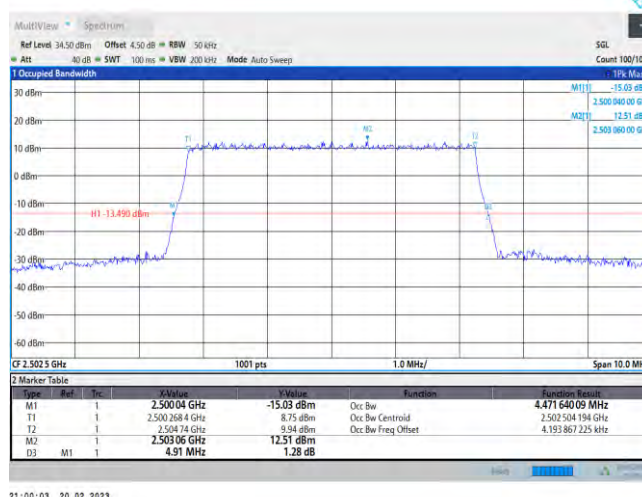
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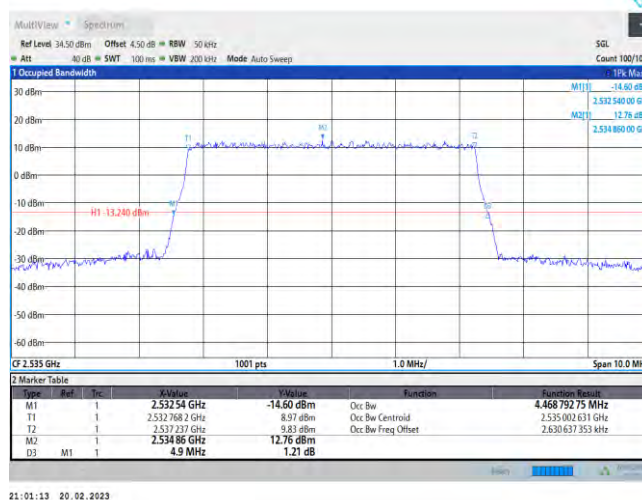
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Test Graphs

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



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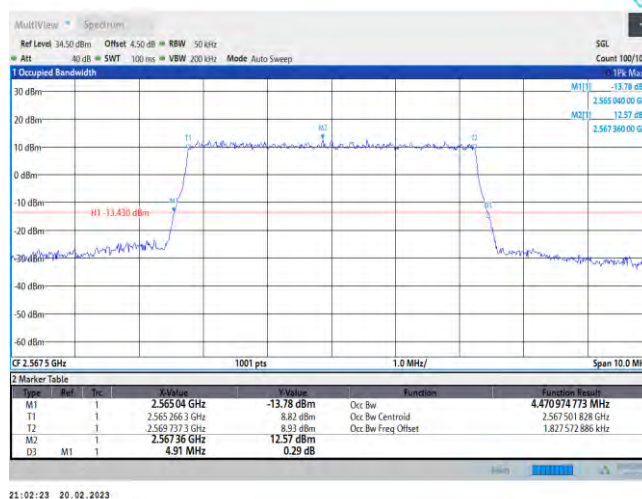
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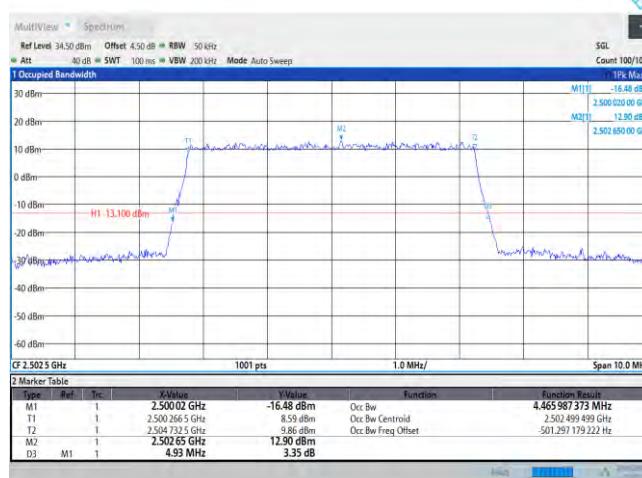
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Band7-5MHz-QPSK-21425-25RB#0



21:02:23 20.02.2023

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



21:00:26 20.02.2023



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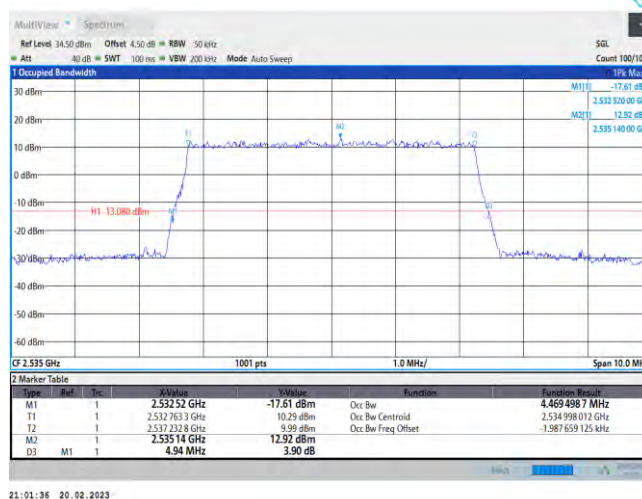
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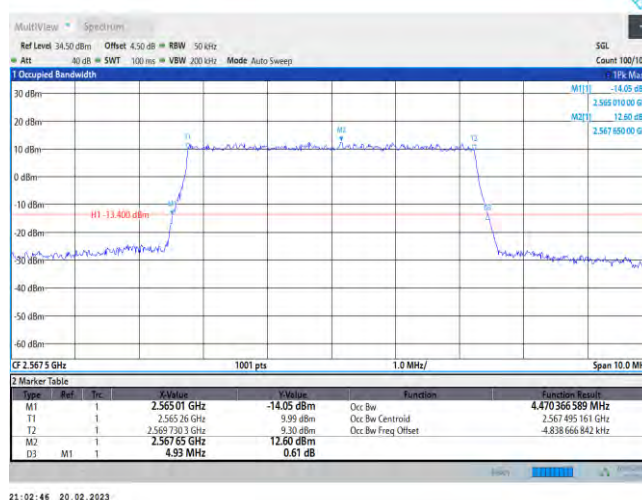
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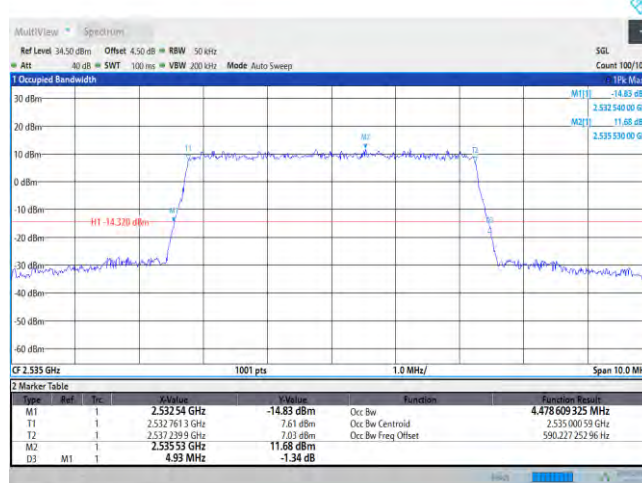
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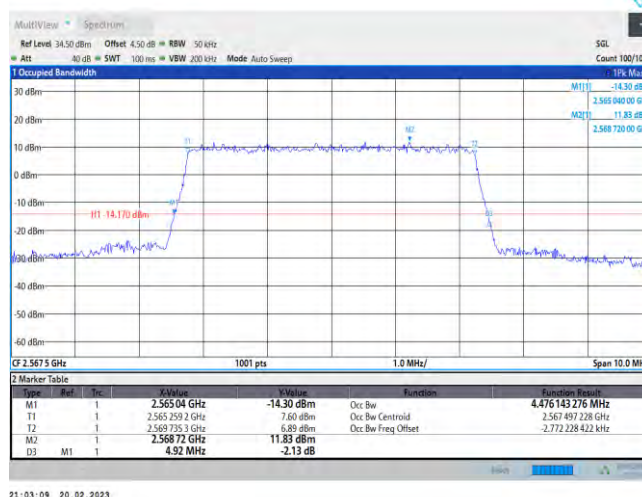
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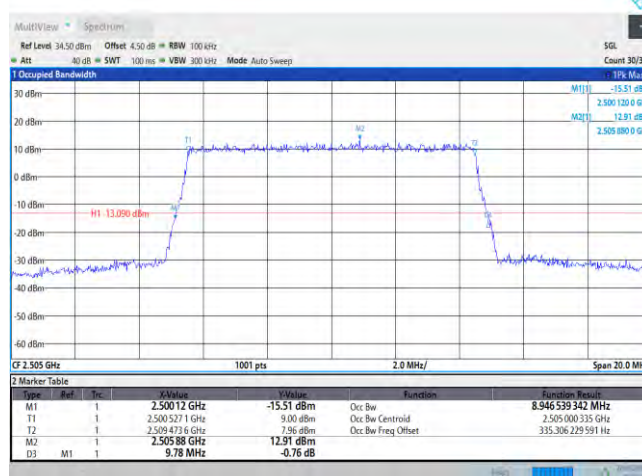
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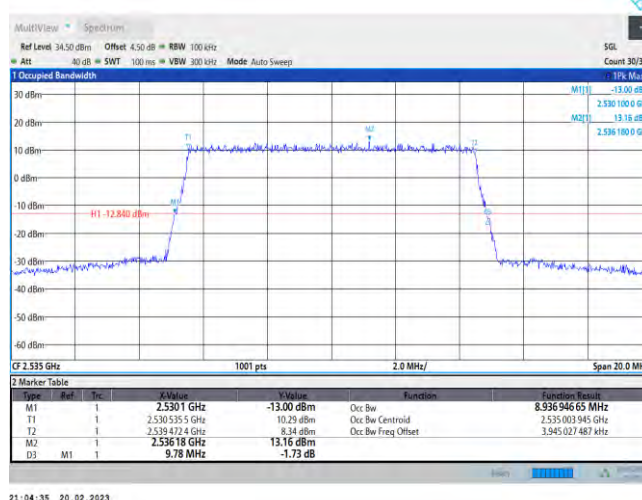
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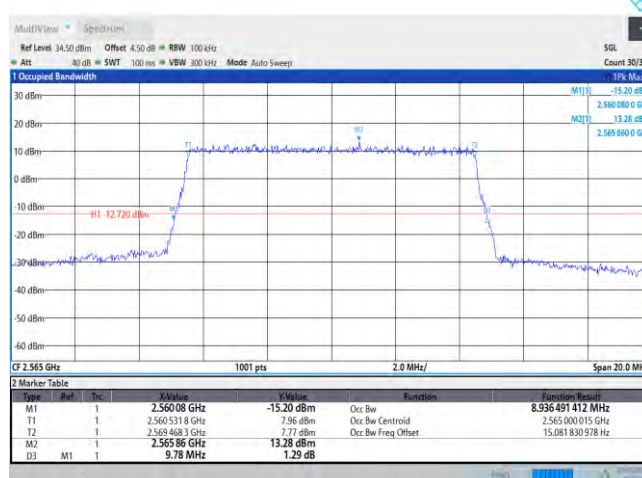
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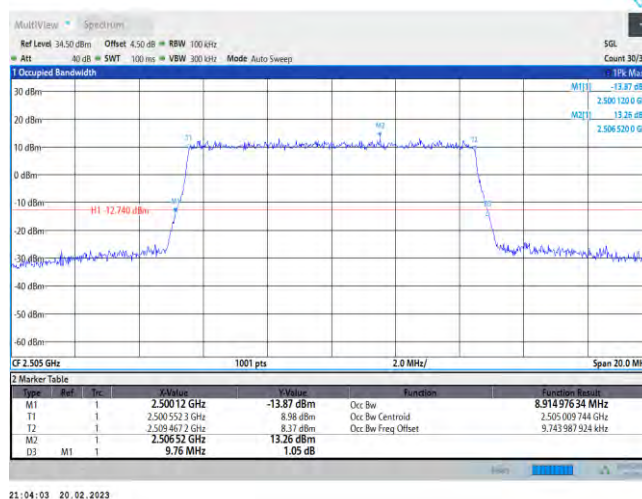
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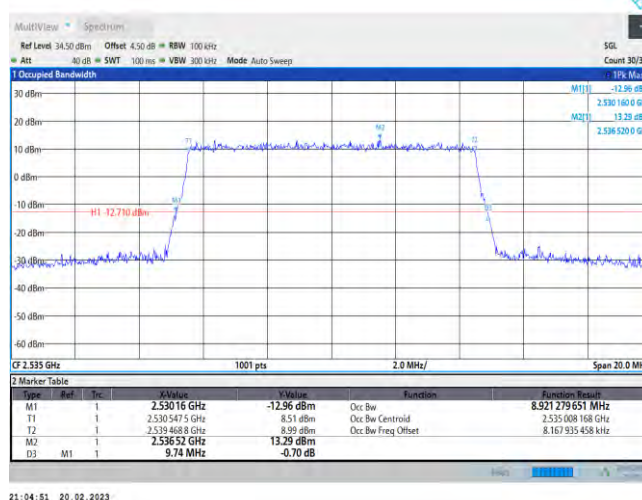
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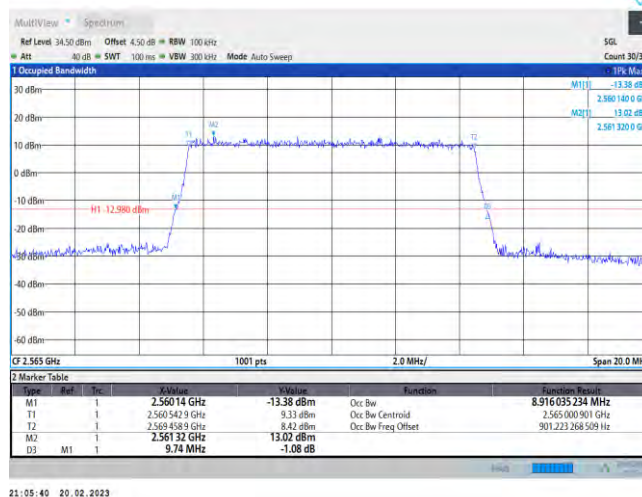
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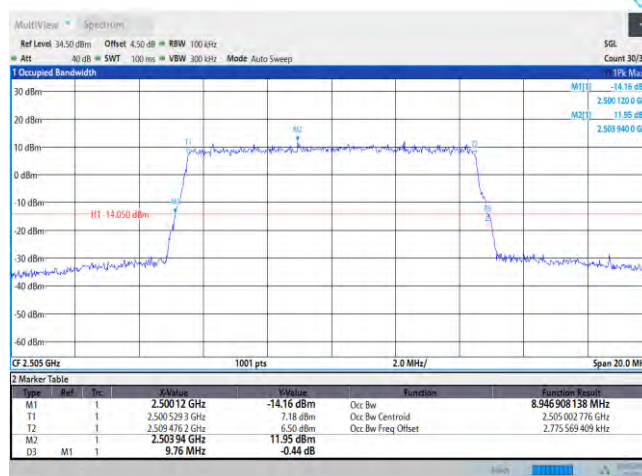
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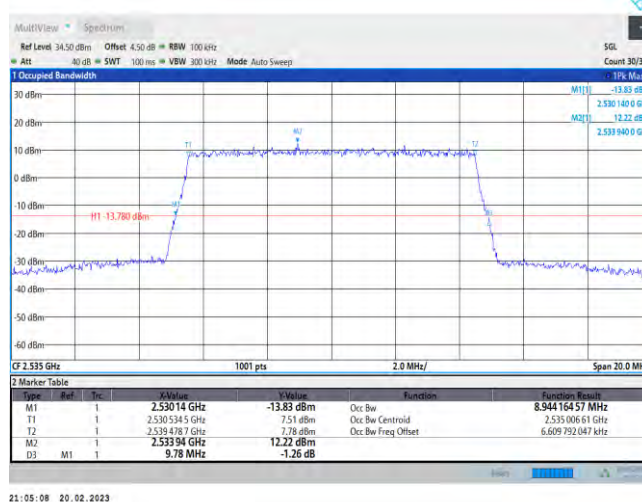
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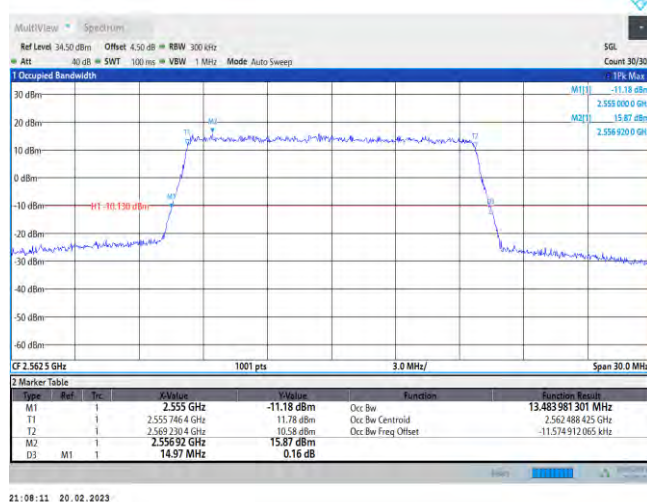
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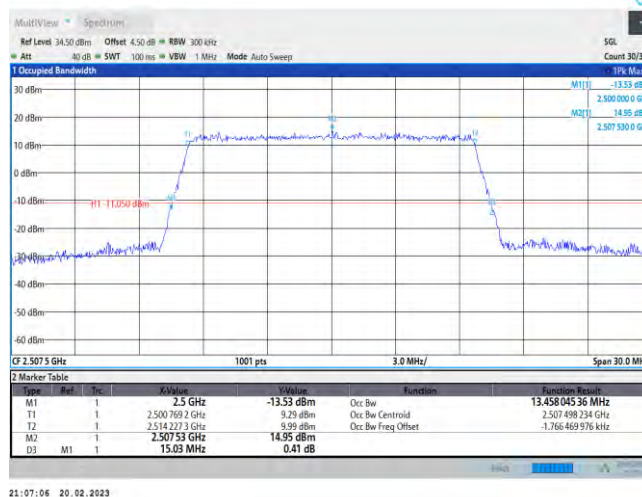
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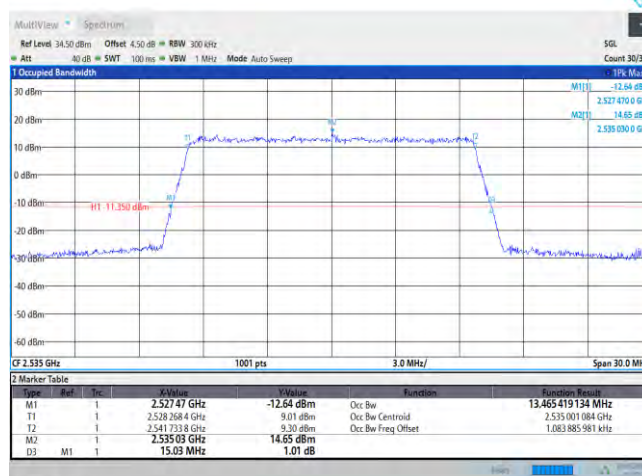
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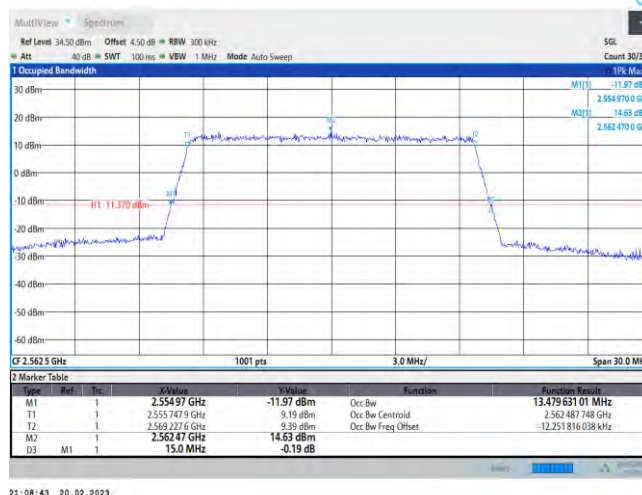
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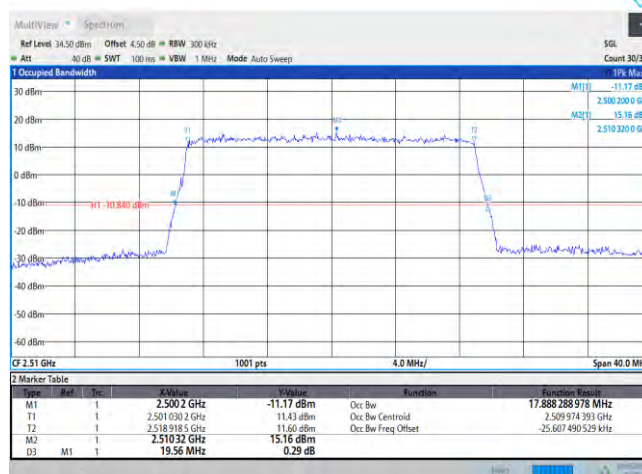
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Band7-15MHz-64QAM-21375-75RB#0



21:08:43 20.02.2023

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



21:09:26 20.02.2023



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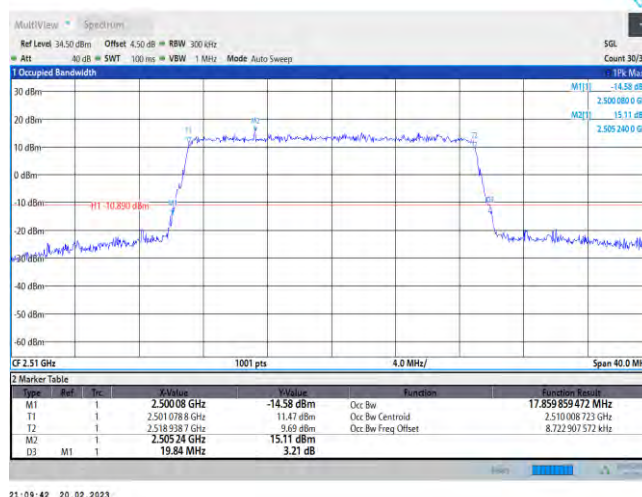
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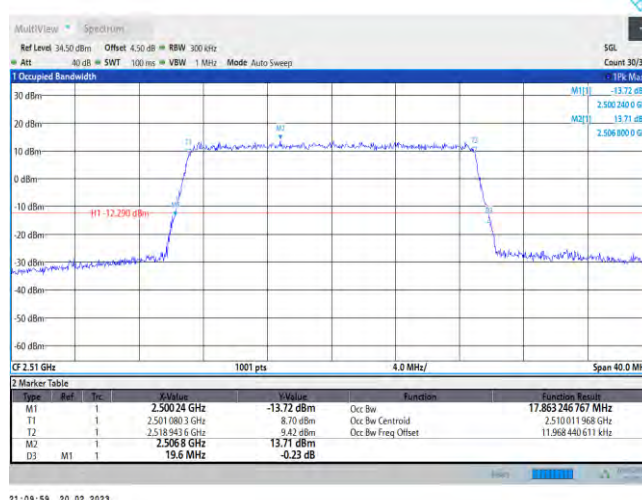
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Band7-20MHz-16QAM-21350-100RB#0



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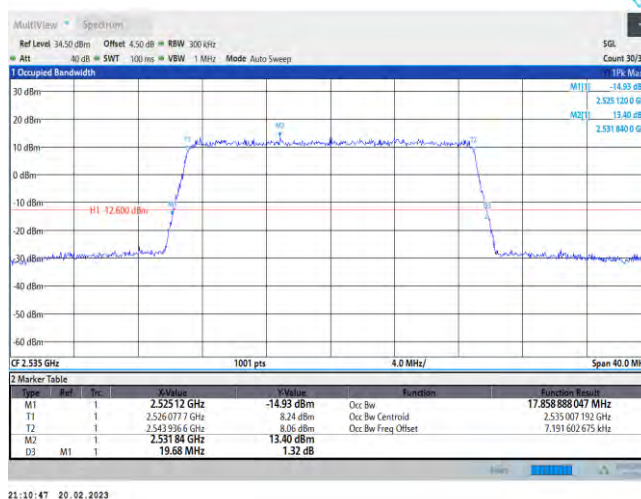
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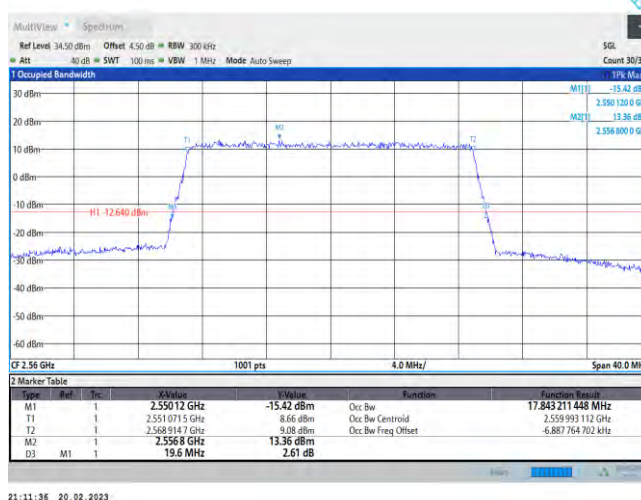
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Band7-20MHz-64QAM-21100-100RB#0



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



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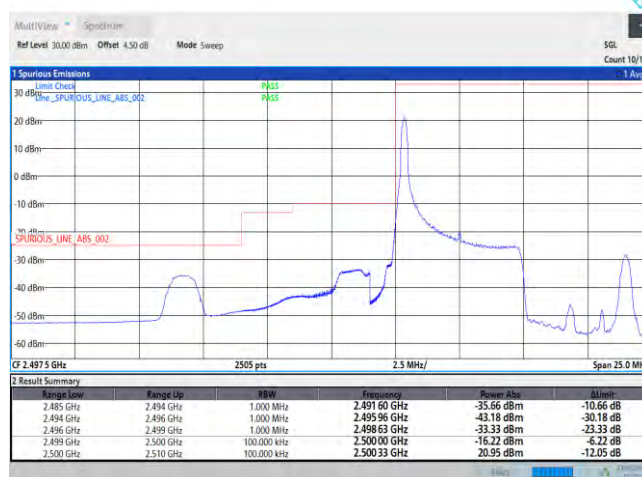
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Band Edge

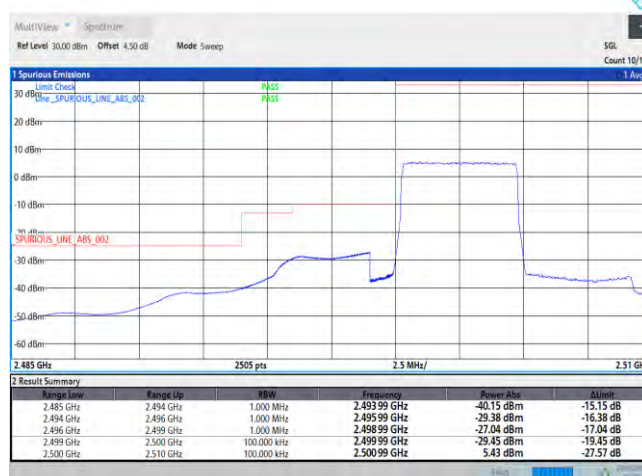
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Band7-5MHz-QPSK-20775-1RB#0



15:07:05 24.02.2023

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



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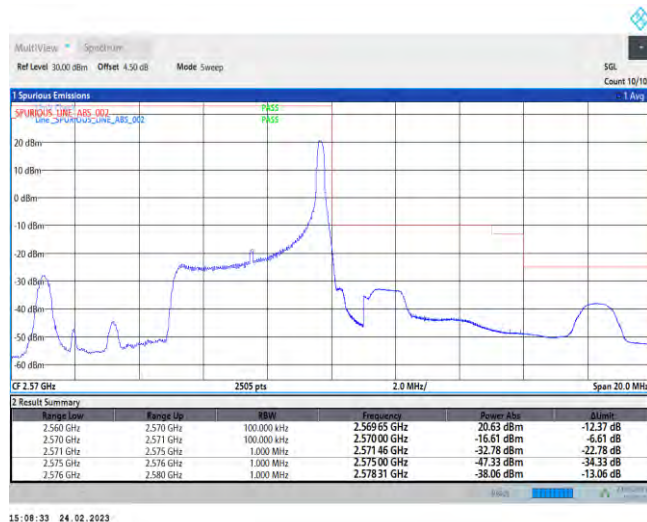
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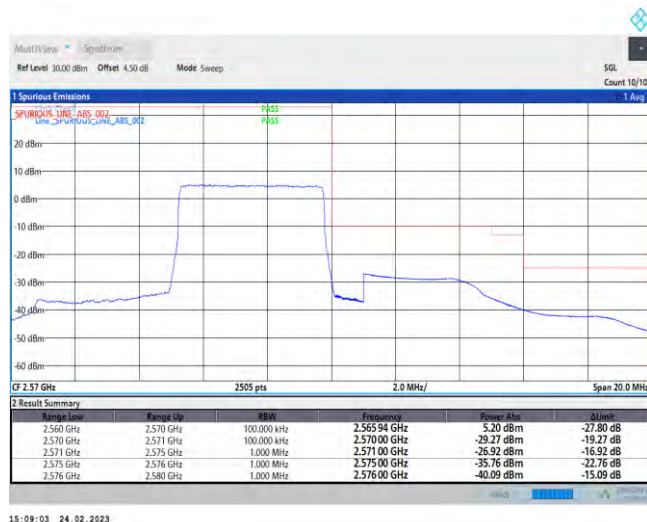
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Band7-5MHz-QPSK-21425-1RB#24



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



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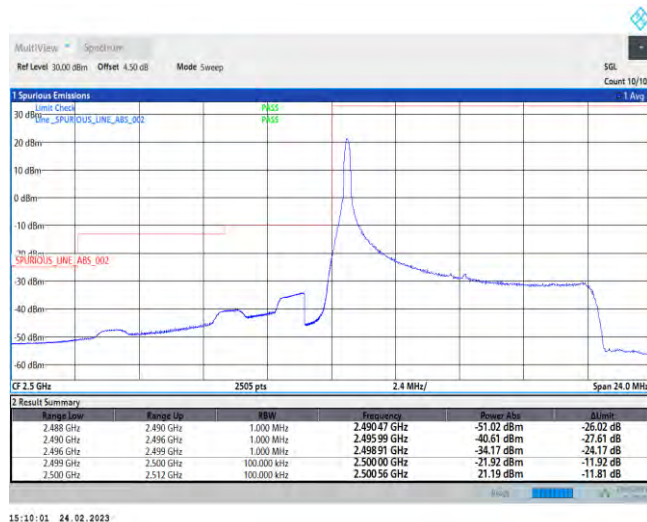
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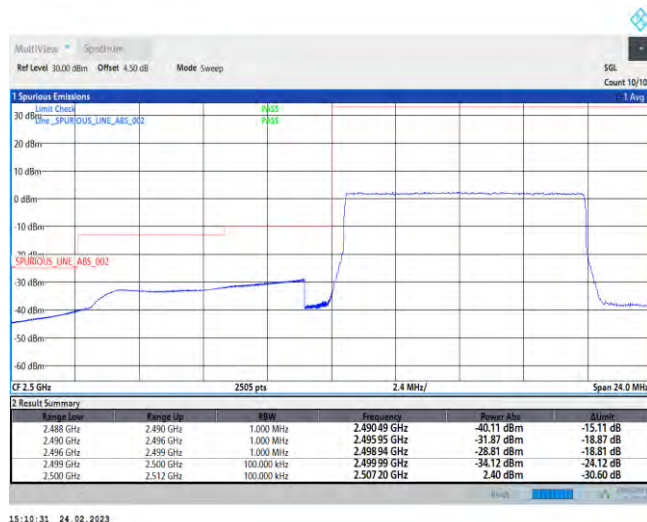
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Band7-10MHz-QPSK-20800-1RB#0



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



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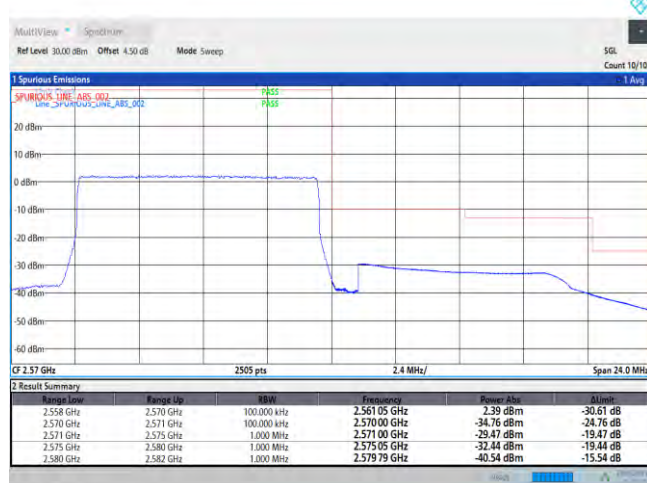
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Band7-10MHz-QPSK-21400-1RB#49



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



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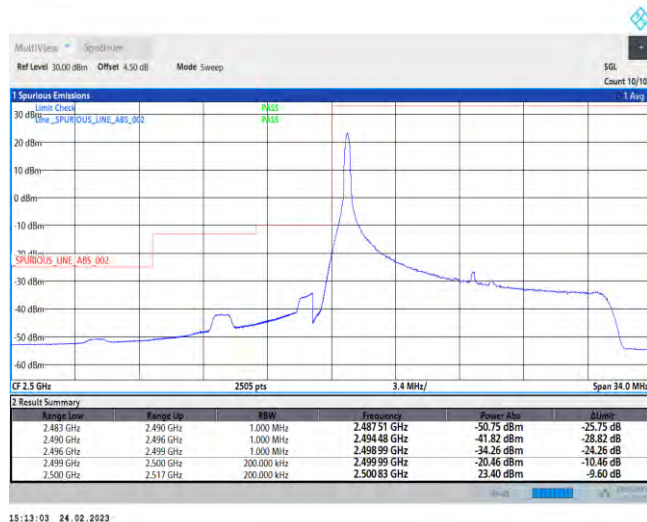
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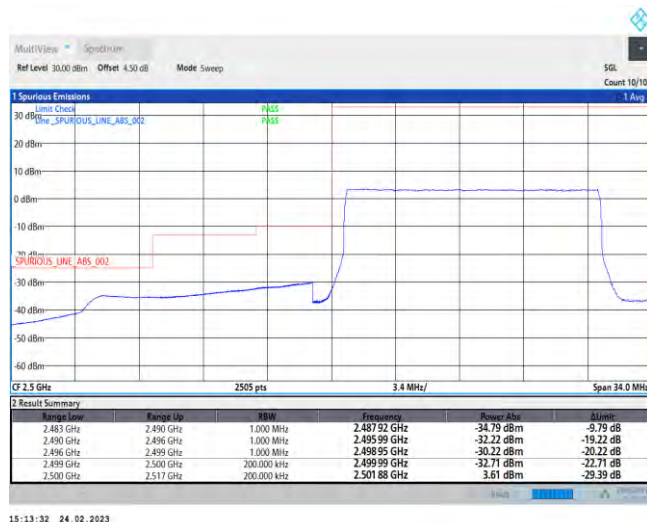
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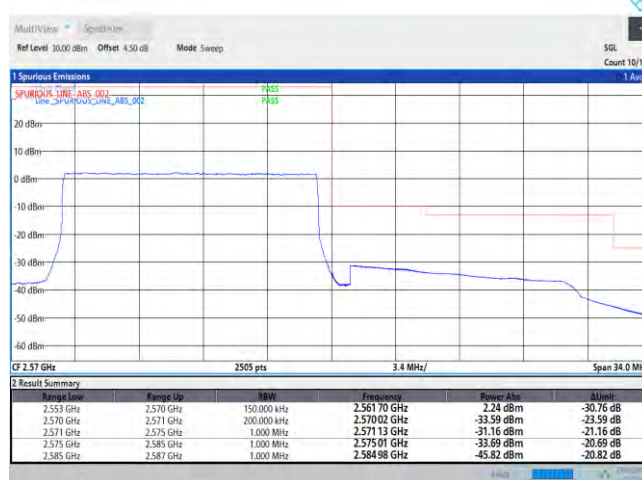
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Band7-15MHz-QPSK-21375-1RB#74



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



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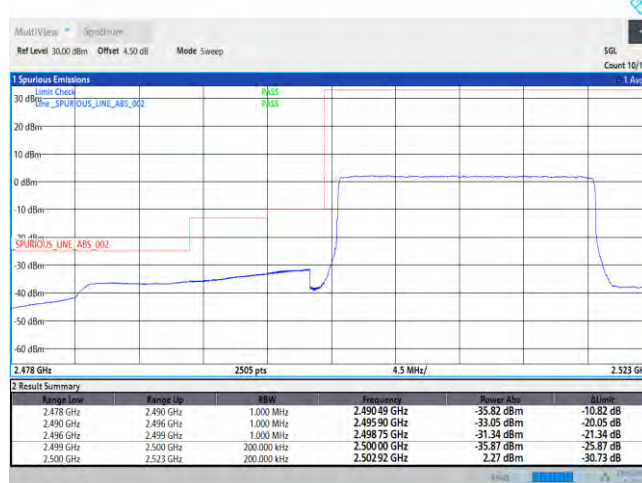
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Band7-20MHz-QPSK-20850-1RB#0



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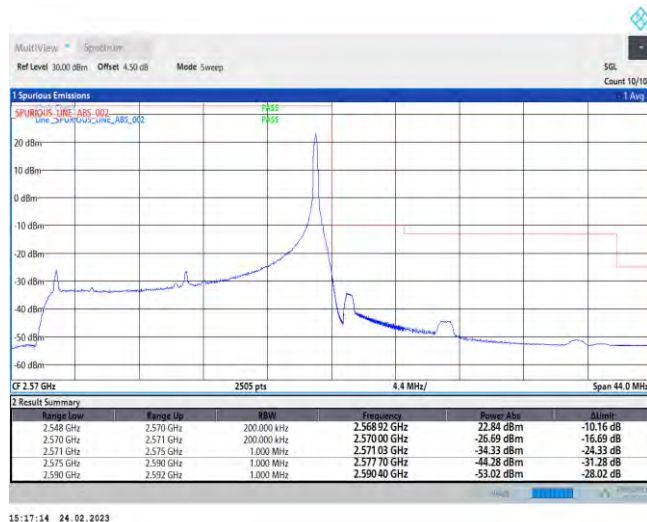
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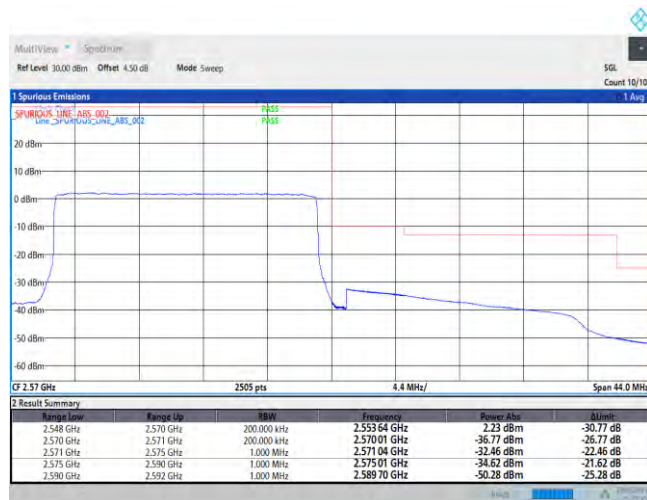
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Band7-20MHz-QPSK-21350-1RB#99



15:17:14 24.02.2023

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



15:17:44 24.02.2023



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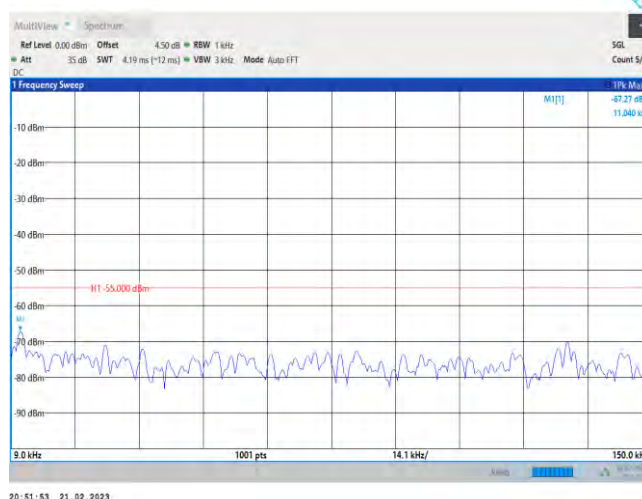
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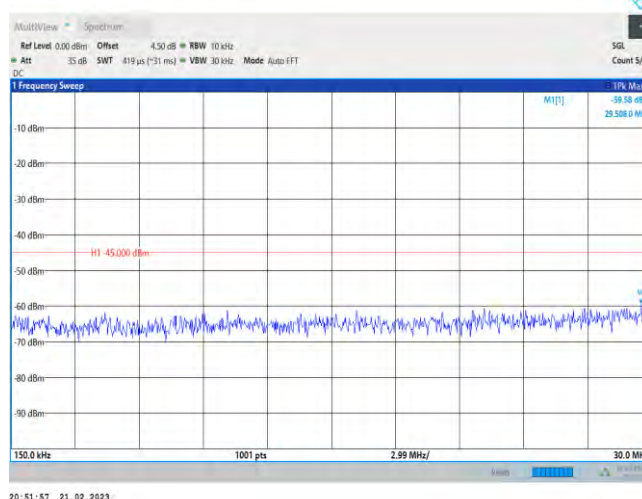
Conducted Spurious Emission

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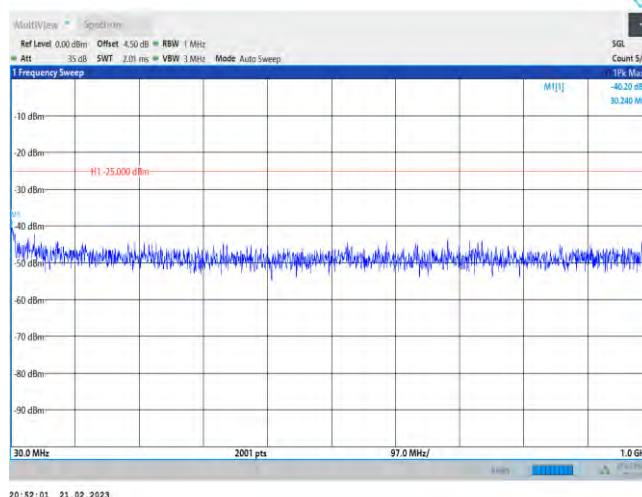
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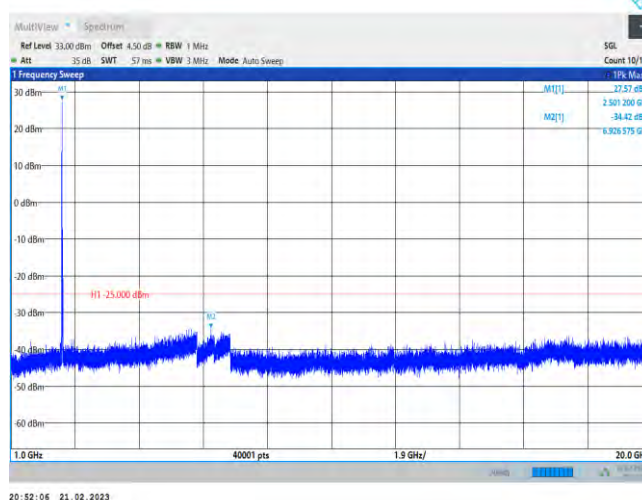
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Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz



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



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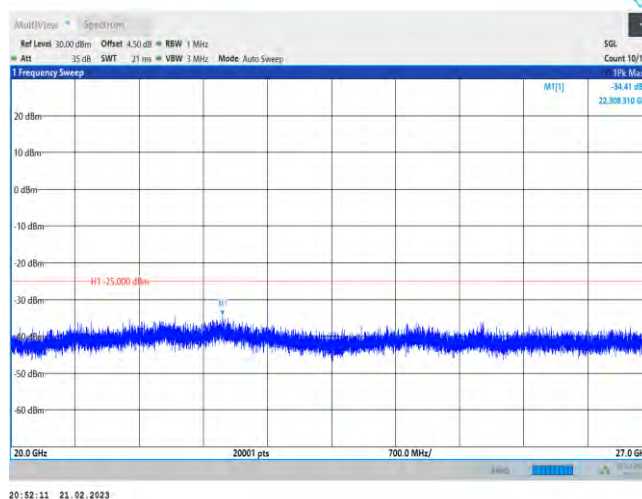
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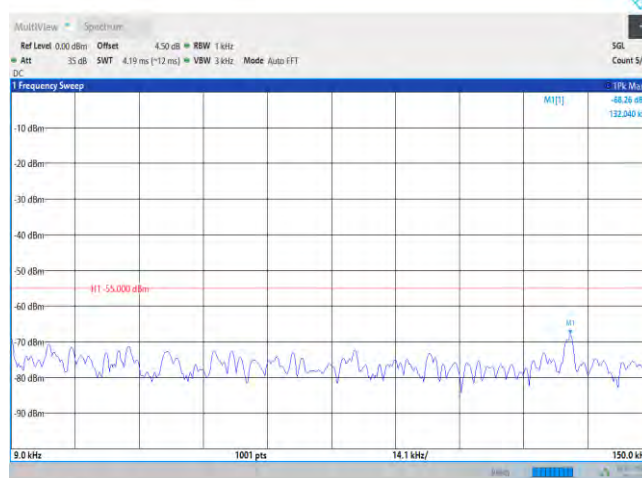
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Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz



20:52:11 21.02.2023

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



20:52:25 21.02.2023



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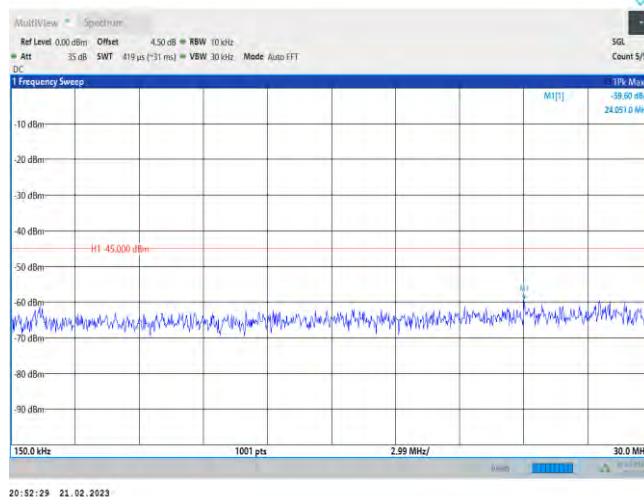
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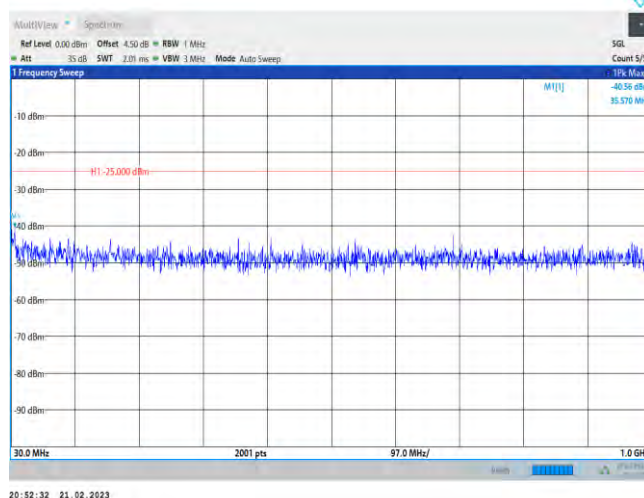
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Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz



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



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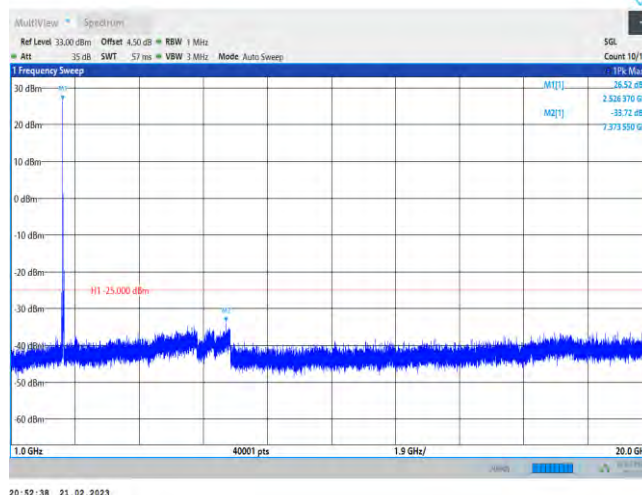
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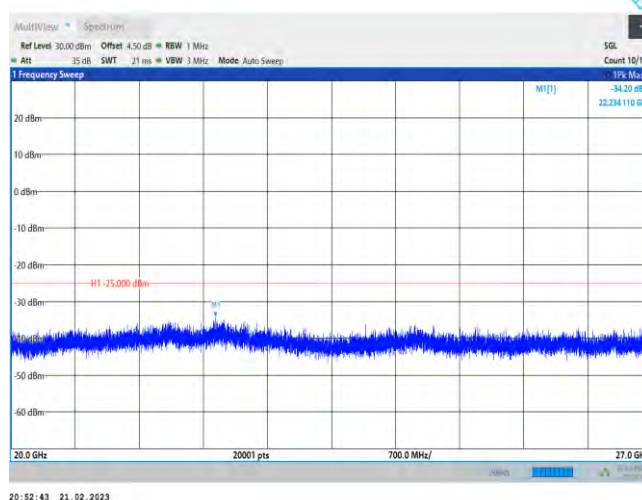
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Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz



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



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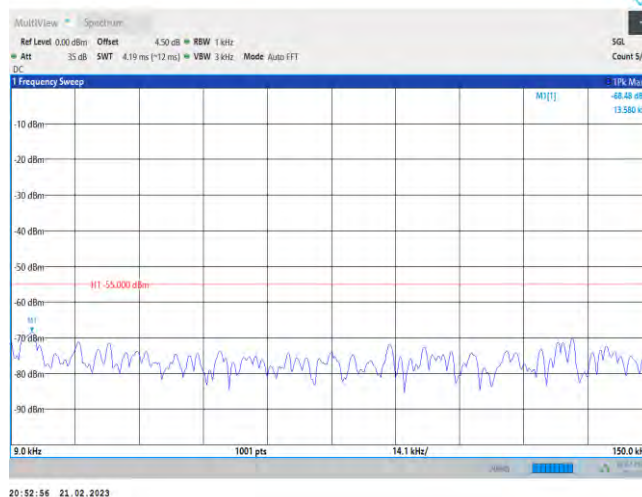
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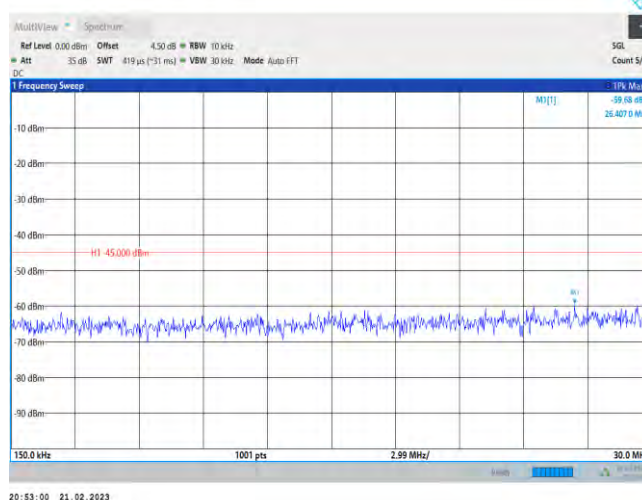
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Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



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



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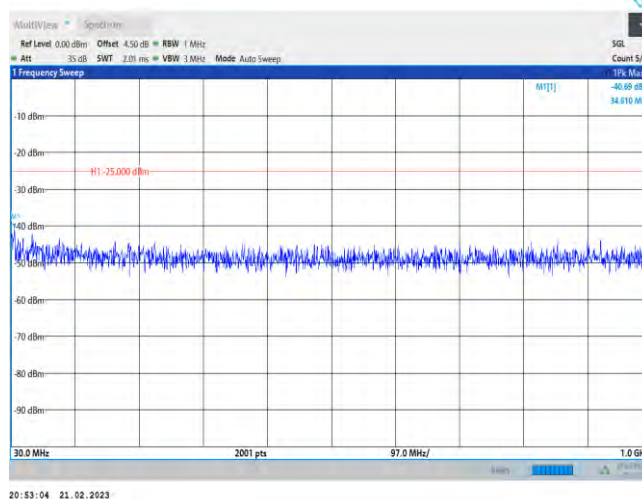
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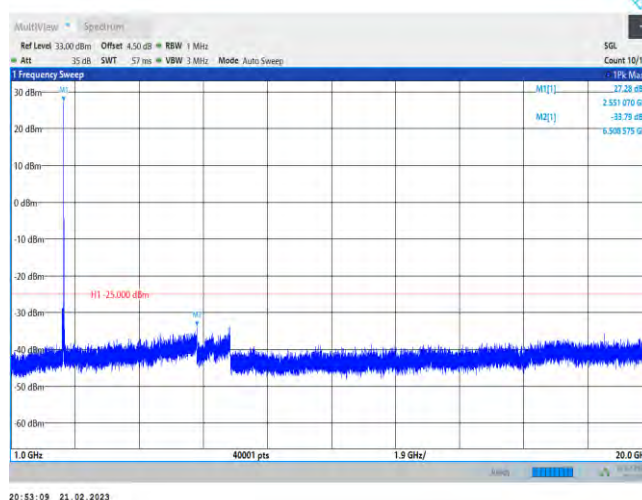
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



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



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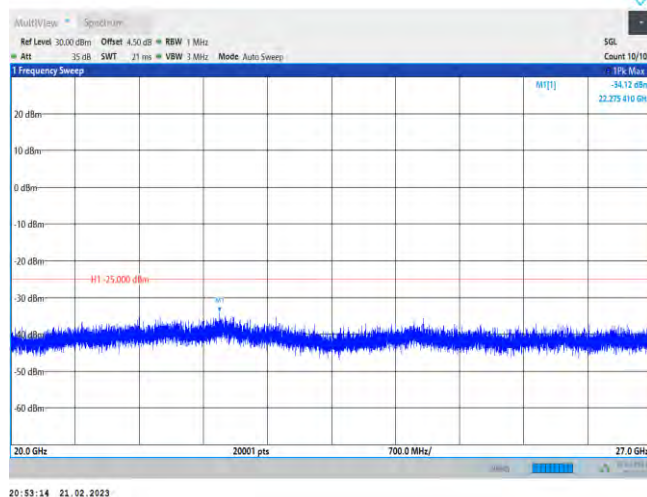
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Band7-20MHz-QPSK-21350-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band7_ 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	40.50	-45.63	32.88	-67.51	-25.00	42.51	156	0	Horizontal
2	7503.2700	39.89	-43.13	36.44	-62.06	-25.00	37.06	195	0	Horizontal
3	10004.3600	35.75	-39.23	38.50	-60.25	-25.00	35.25	166	35	Horizontal
4	12505.4500	34.39	-36.99	39.18	-58.68	-25.00	33.68	173	270	Horizontal
5	15006.5400	33.33	-34.65	39.21	-57.37	-25.00	32.37	201	0	Horizontal
6	17507.6300	32.52	-34.95	39.22	-58.47	-25.00	33.47	188	346	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	41.04	-45.63	32.88	-66.97	-25.00	41.97	165	285	Vertical
2	7503.2700	39.59	-43.13	36.44	-62.36	-25.00	37.36	173	25	Vertical
3	10004.3600	35.70	-39.23	38.50	-60.30	-25.00	35.30	195	357	Vertical
4	12505.4500	35.01	-36.99	39.18	-58.06	-25.00	33.06	201	146	Vertical
5	15006.5400	33.51	-34.65	39.21	-57.19	-25.00	32.19	181	237	Vertical
6	17507.6300	32.85	-34.95	39.22	-58.14	-25.00	33.14	188	146	Vertical



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Test Band = LTE Band7_ 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	41.26	-45.50	32.91	-66.59	-25.00	41.59	166	0	Horizontal
2	7578.2700	38.82	-42.97	36.40	-63.01	-25.00	38.01	181	317	Horizontal
3	10104.3600	35.11	-39.14	38.66	-60.63	-25.00	35.63	171	0	Horizontal
4	12630.4500	34.80	-37.33	39.33	-58.46	-25.00	33.46	162	331	Horizontal
5	15156.5400	31.99	-34.37	39.01	-58.63	-25.00	33.63	213	136	Horizontal
6	17682.6300	34.39	-33.89	40.06	-54.70	-25.00	29.70	192	168	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	5052.1800	40.89	-45.50	32.91	-66.96	-25.00	41.96	163	90	Vertical
2	7578.2700	39.29	-42.97	36.40	-62.54	-25.00	37.54	167	356	Vertical
3	10104.3600	35.11	-39.14	38.66	-60.63	-25.00	35.63	188	330	Vertical
4	12630.4500	34.81	-37.33	39.33	-58.45	-25.00	33.45	195	356	Vertical
5	15156.5400	32.64	-34.37	39.01	-57.98	-25.00	32.98	165	135	Vertical
6	17682.6300	33.99	-33.89	40.06	-55.10	-25.00	30.10	213	30	Vertical



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Test Band = LTE Band7_ 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	40.69	-45.37	32.94	-67.00	-25.00	42.00	166	60	Horizontal
2	7653.2700	39.90	-43.03	36.49	-61.90	-25.00	36.90	185	0	Horizontal
3	10204.3600	35.63	-39.48	38.81	-60.30	-25.00	35.30	162	43	Horizontal
4	12755.4500	33.91	-36.76	39.55	-58.56	-25.00	33.56	161	43	Horizontal
5	15306.5400	32.53	-34.36	38.82	-58.27	-25.00	33.27	233	1	Horizontal
6	17857.6300	34.14	-34.56	41.24	-54.44	-25.00	29.44	188	211	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	41.05	-45.37	32.94	-66.64	-25.00	41.64	169	330	Vertical
2	7653.2700	39.55	-43.03	36.49	-62.25	-25.00	37.25	185	147	Vertical
3	10204.3600	35.38	-39.48	38.81	-60.55	-25.00	35.55	191	162	Vertical
4	12755.4500	34.44	-36.76	39.55	-58.03	-25.00	33.03	166	147	Vertical
5	15306.5400	33.02	-34.36	38.82	-57.78	-25.00	32.78	213	191	Vertical
6	17857.6300	33.53	-34.56	41.24	-55.05	-25.00	30.05	195	282	Vertical



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Test Band = LTE 7A_7A_ TM1
Test Channel = Max WGap

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	40.57	-45.50	32.91	-67.28	-25.00	42.28	176	360	Horizontal
2	7578.2700	39.63	-42.97	36.40	-62.20	-25.00	37.20	236	357	Horizontal
3	10104.3600	34.14	-39.14	38.66	-61.60	-25.00	36.60	295	360	Horizontal
4	12630.4500	31.48	-37.33	39.33	-61.78	-25.00	36.78	148	225	Horizontal
5	15156.5400	29.52	-34.37	39.01	-61.10	-25.00	36.10	155	300	Horizontal
6	17682.6300	32.04	-33.89	40.06	-57.05	-25.00	32.05	163	88	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	5052.1800	40.78	-45.50	32.91	-67.07	-25.00	42.07	214	268	Vertical
2	7578.2700	38.90	-42.97	36.40	-62.93	-25.00	37.93	255	342	Vertical
3	10104.3600	34.19	-39.14	38.66	-61.55	-25.00	36.55	169	268	Vertical
4	12630.4500	31.47	-37.33	39.33	-61.79	-25.00	36.79	247	359	Vertical
5	15156.5400	28.58	-34.37	39.01	-62.04	-25.00	37.04	186	87	Vertical
6	17682.6300	32.68	-33.89	40.06	-56.41	-25.00	31.41	219	179	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:

$$AF = \text{Antenna Factor(dB/m)}$$

$$\text{Factor} = \text{Cable Factor(dB)} - \text{Preamplifier (dB)}$$

$$\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$$

$$\text{Margin} = \text{Limit} - \text{Level}$$


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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	-0.80	-0.000316	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-3.60	-0.001420	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-1.10	-0.000434	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	0.00	0.000000	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-0.90	-0.000355	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-0.30	-0.000118	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-2.40	-0.000947	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-0.90	-0.000355	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-0.70	-0.000276	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-2.40	-0.000947	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-3.30	-0.001302	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-2.10	-0.000828	PASS

---End of Attachment---



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