



Report No.: SEWA2205000015RG01

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Appendix B.6

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	22.84	23.26	33	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.9	23.32	33	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.96	23.38	33	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.03	22.45	33	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.13	23.55	33	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.2	23.62	33	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.17	23.59	33	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.25	22.67	33	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.28	23.7	33	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.3	23.72	33	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.31	23.73	33	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.39	22.81	33	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.16	22.58	33	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.27	22.69	33	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.25	22.67	33	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.11	21.53	33	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.45	22.87	33	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.48	22.9	33	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.47	22.89	33	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.22	21.64	33	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.61	23.03	33	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.54	22.96	33	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.55	22.97	33	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.42	21.84	33	PASS
Band7	5MHz	64QAM	20775	1RB#0	21.15	21.57	33	PASS
Band7	5MHz	64QAM	20775	1RB#12	21.22	21.64	33	PASS
Band7	5MHz	64QAM	20775	1RB#24	21.3	21.72	33	PASS
Band7	5MHz	64QAM	20775	25RB#0	20.02	20.44	33	PASS



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Band7	5MHz	64QAM	21100	1RB#0	21.41	21.83	33	PASS
Band7	5MHz	64QAM	21100	1RB#12	21.38	21.8	33	PASS
Band7	5MHz	64QAM	21100	1RB#24	21.42	21.84	33	PASS
Band7	5MHz	64QAM	21100	25RB#0	20.22	20.64	33	PASS
Band7	5MHz	64QAM	21425	1RB#0	21.6	22.02	33	PASS
Band7	5MHz	64QAM	21425	1RB#12	21.56	21.98	33	PASS
Band7	5MHz	64QAM	21425	1RB#24	21.45	21.87	33	PASS
Band7	5MHz	64QAM	21425	25RB#0	20.41	20.83	33	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.86	23.28	33	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.85	23.27	33	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.01	23.43	33	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.08	22.5	33	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.12	23.54	33	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.08	23.5	33	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.15	23.57	33	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.19	22.61	33	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.31	23.73	33	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.25	23.67	33	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.26	23.68	33	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.4	22.82	33	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.49	22.91	33	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.34	22.76	33	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.31	22.73	33	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.07	21.49	33	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.47	22.89	33	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.49	22.91	33	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.45	22.87	33	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.12	21.54	33	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.61	23.03	33	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.67	23.09	33	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.61	23.03	33	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.34	21.76	33	PASS
Band7	10MHz	64QAM	20800	1RB#0	21.06	21.48	33	PASS



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Band7	10MHz	64QAM	20800	1RB#24	21.14	21.56	33	PASS
Band7	10MHz	64QAM	20800	1RB#49	21.33	21.75	33	PASS
Band7	10MHz	64QAM	20800	50RB#0	20.12	20.54	33	PASS
Band7	10MHz	64QAM	21100	1RB#0	21.31	21.73	33	PASS
Band7	10MHz	64QAM	21100	1RB#24	21.39	21.81	33	PASS
Band7	10MHz	64QAM	21100	1RB#49	21.5	21.92	33	PASS
Band7	10MHz	64QAM	21100	50RB#0	20.23	20.65	33	PASS
Band7	10MHz	64QAM	21400	1RB#0	21.48	21.9	33	PASS
Band7	10MHz	64QAM	21400	1RB#24	21.64	22.06	33	PASS
Band7	10MHz	64QAM	21400	1RB#49	21.52	21.94	33	PASS
Band7	10MHz	64QAM	21400	50RB#0	20.39	20.81	33	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.94	23.36	33	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.91	23.33	33	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.95	23.37	33	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.07	22.49	33	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.06	23.48	33	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.14	23.56	33	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.12	23.54	33	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.22	22.64	33	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.26	23.68	33	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.32	23.74	33	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.23	23.65	33	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.35	22.77	33	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.23	22.65	33	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.27	22.69	33	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.5	22.92	33	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.1	21.52	33	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.53	22.95	33	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.48	22.9	33	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.52	22.94	33	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.14	21.56	33	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.59	23.01	33	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.52	22.94	33	PASS



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Band7	15MHz	16QAM	21375	1RB#74	22.48	22.9	33	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.25	21.67	33	PASS
Band7	15MHz	64QAM	20825	1RB#0	21.02	21.44	33	PASS
Band7	15MHz	64QAM	20825	1RB#38	21.25	21.67	33	PASS
Band7	15MHz	64QAM	20825	1RB#74	21.34	21.76	33	PASS
Band7	15MHz	64QAM	20825	75RB#0	20.13	20.55	33	PASS
Band7	15MHz	64QAM	21100	1RB#0	21.44	21.86	33	PASS
Band7	15MHz	64QAM	21100	1RB#38	21.43	21.85	33	PASS
Band7	15MHz	64QAM	21100	1RB#74	21.39	21.81	33	PASS
Band7	15MHz	64QAM	21100	75RB#0	20.23	20.65	33	PASS
Band7	15MHz	64QAM	21375	1RB#0	21.57	21.99	33	PASS
Band7	15MHz	64QAM	21375	1RB#38	21.56	21.98	33	PASS
Band7	15MHz	64QAM	21375	1RB#74	21.53	21.95	33	PASS
Band7	15MHz	64QAM	21375	75RB#0	20.39	20.81	33	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.86	23.28	33	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.98	23.4	33	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.96	23.38	33	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.07	22.49	33	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.11	23.53	33	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.1	23.52	33	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.1	23.52	33	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.21	22.63	33	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.22	23.64	33	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.26	23.68	33	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.17	23.59	33	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.46	22.88	33	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.39	22.81	33	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.29	22.71	33	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.38	22.8	33	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.16	21.58	33	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.39	22.81	33	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.43	22.85	33	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.44	22.86	33	PASS



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Band7	20MHz	16QAM	21100	100RB#0	21.2	21.62	33	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.55	22.97	33	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.6	23.02	33	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.59	23.01	33	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.4	21.82	33	PASS
Band7	20MHz	64QAM	20850	1RB#0	21.19	21.61	33	PASS
Band7	20MHz	64QAM	20850	1RB#49	21.36	21.78	33	PASS
Band7	20MHz	64QAM	20850	1RB#99	21.21	21.63	33	PASS
Band7	20MHz	64QAM	20850	100RB#0	20.17	20.59	33	PASS
Band7	20MHz	64QAM	21100	1RB#0	21.29	21.71	33	PASS
Band7	20MHz	64QAM	21100	1RB#49	21.31	21.73	33	PASS
Band7	20MHz	64QAM	21100	1RB#99	21.25	21.67	33	PASS
Band7	20MHz	64QAM	21100	100RB#0	20.22	20.64	33	PASS
Band7	20MHz	64QAM	21350	1RB#0	21.45	21.87	33	PASS
Band7	20MHz	64QAM	21350	1RB#49	21.51	21.93	33	PASS
Band7	20MHz	64QAM	21350	1RB#99	21.49	21.91	33	PASS
Band7	20MHz	64QAM	21350	100RB#0	20.49	20.91	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	5.28	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.34	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.26	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.10	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.06	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.08	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.58	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.58	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.66	13	PASS



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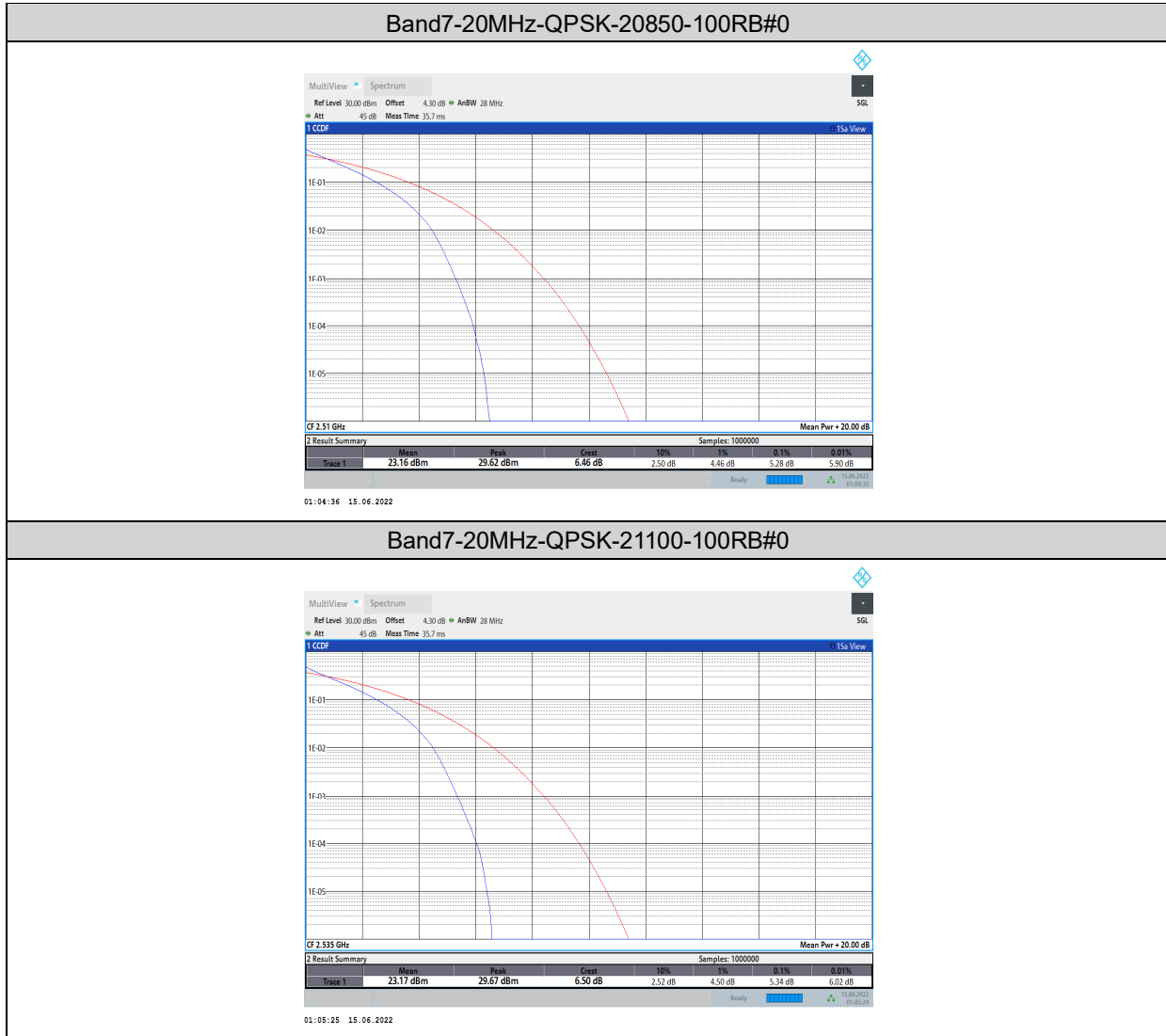
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Test Graphs



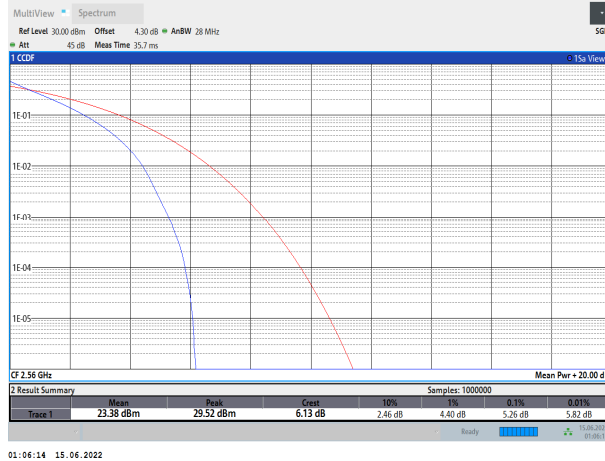
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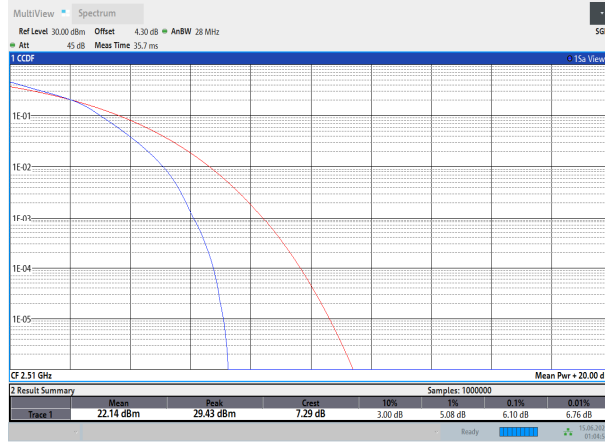
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Band7-20MHz-QPSK-21350-100RB#0



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



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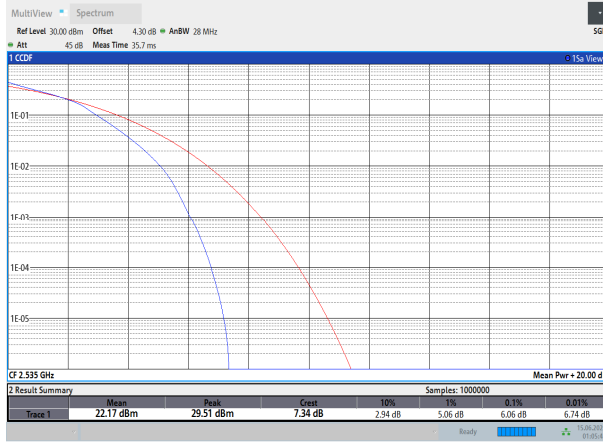
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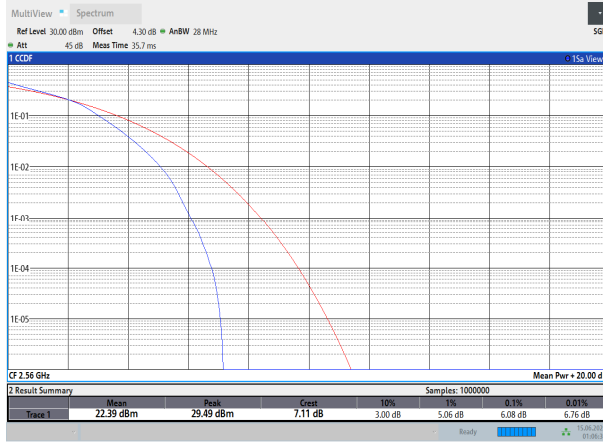


Band7-20MHz-16QAM-21100-100RB#0



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



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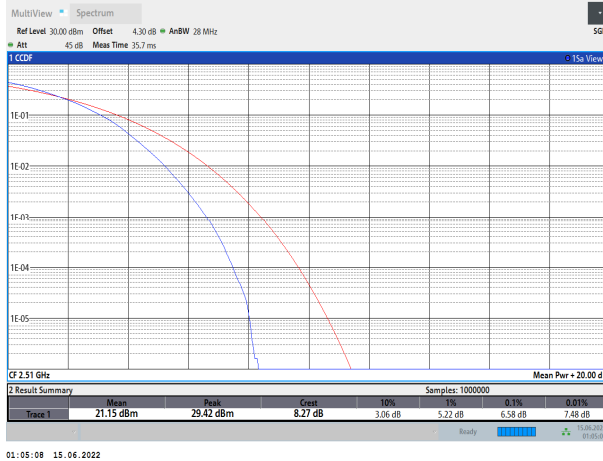
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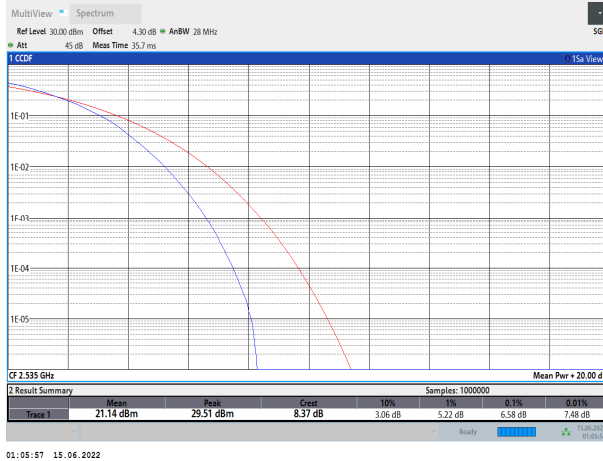
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Band7-20MHz-64QAM-20850-100RB#0



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



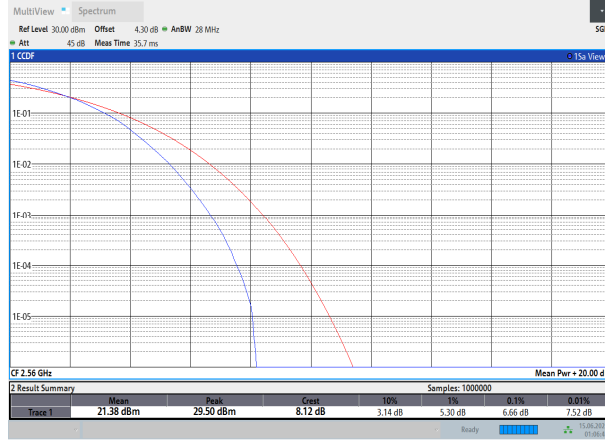
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Band7-20MHz-64QAM-21350-100RB#0



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Modulation Characteristics

Test Result

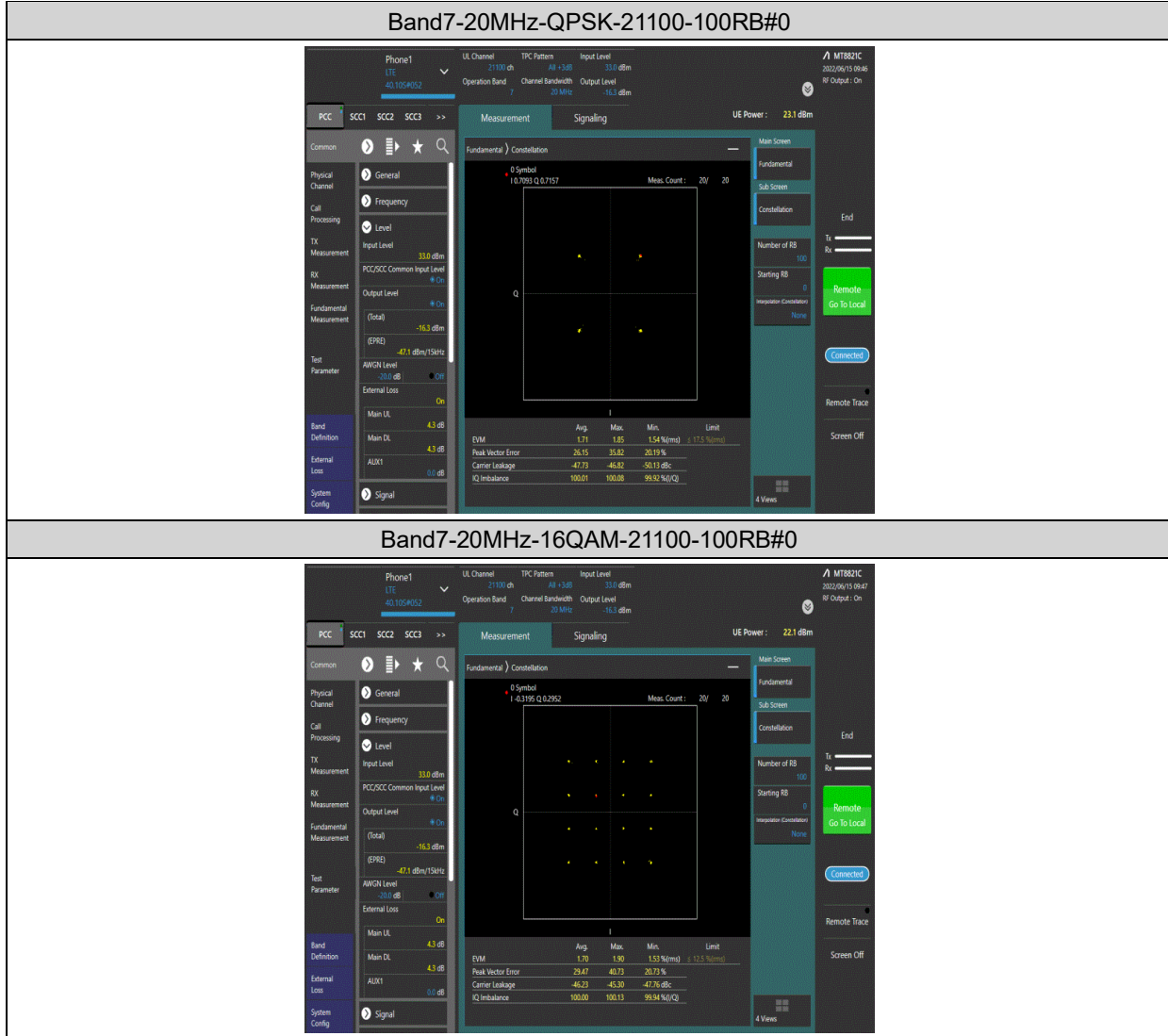
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band7	20MHz	QPSK	21100	100RB#0	PASS	PASS
Band7	20MHz	16QAM	21100	100RB#0	PASS	PASS
Band7	20MHz	64QAM	21100	100RB#0	PASS	PASS



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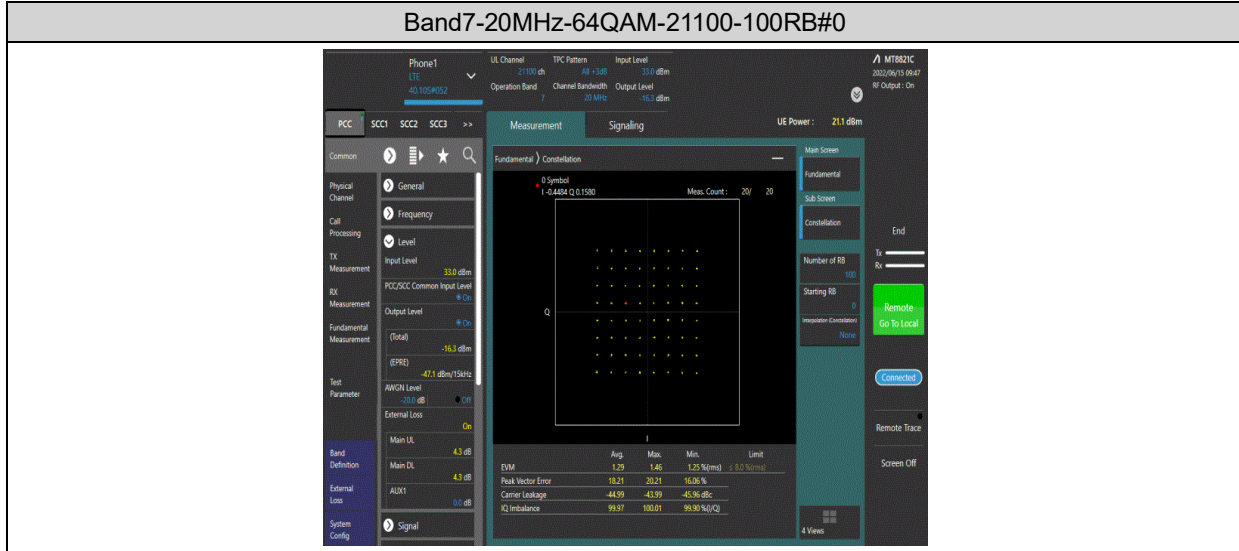
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Test Graphs



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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	4.469	4.88	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.465	4.88	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.470	4.89	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.470	4.93	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.467	4.91	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.461	4.90	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.479	4.90	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.482	4.90	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.476	4.90	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.926	9.62	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.914	9.64	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.913	9.70	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.903	9.60	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.906	9.60	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.910	9.58	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.923	9.66	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.924	9.64	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.913	9.60	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.470	14.82	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.461	14.76	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.460	14.73	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.439	14.76	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.450	14.79	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.443	14.67	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.440	14.76	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.437	14.79	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.434	14.82	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.894	19.36	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.937	19.56	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.910	19.44	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.894	19.40	PASS



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Rev.: 01

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Band7	20MHz	16QAM	21100	100RB#0	17.902	19.36	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.872	19.40	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.878	19.44	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.891	19.40	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.858	19.40	PASS



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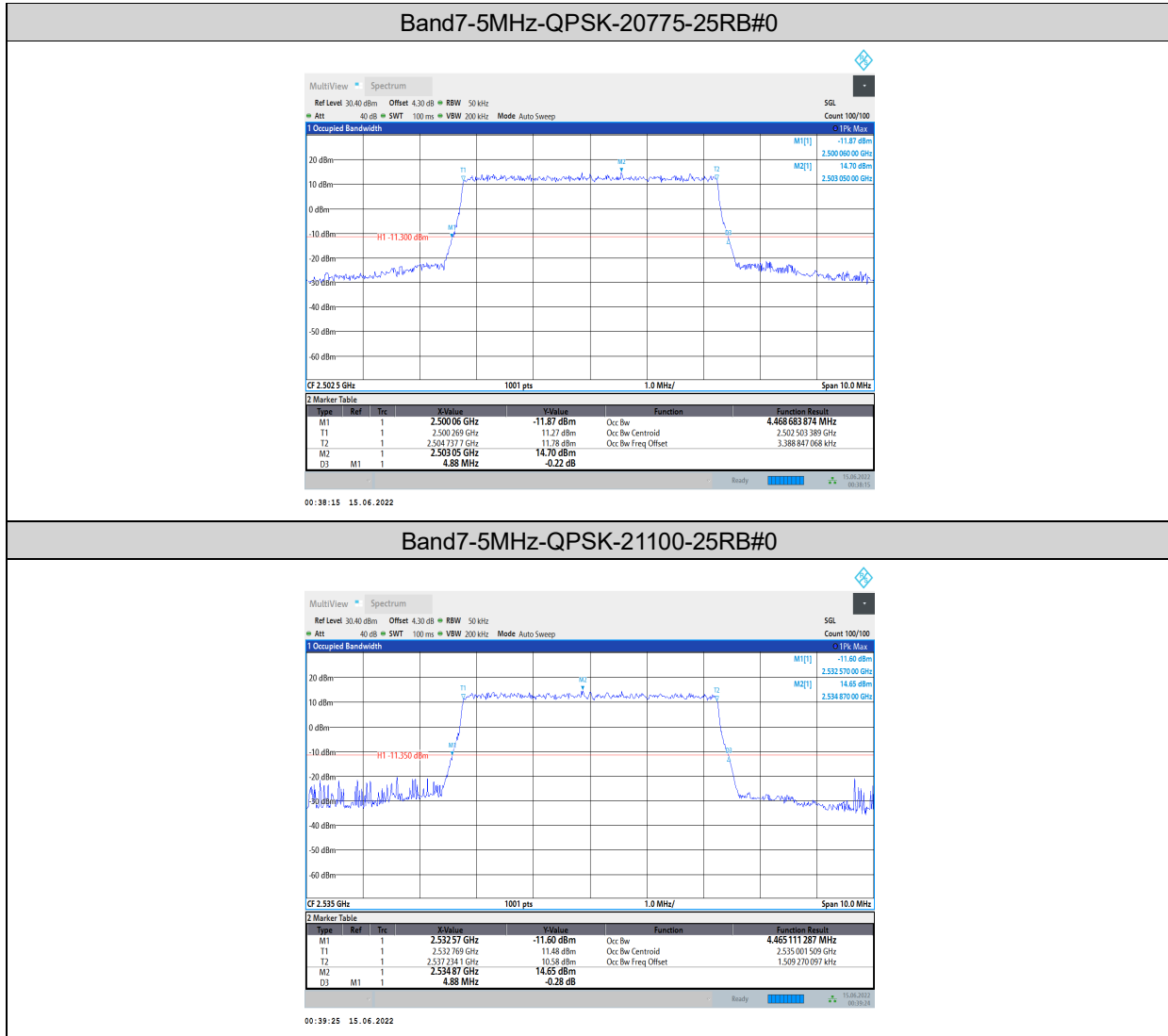
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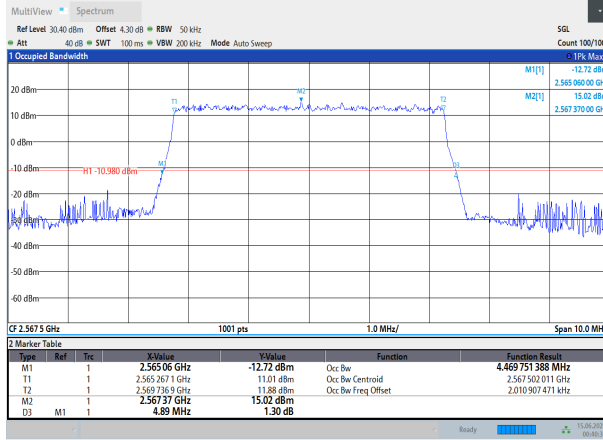


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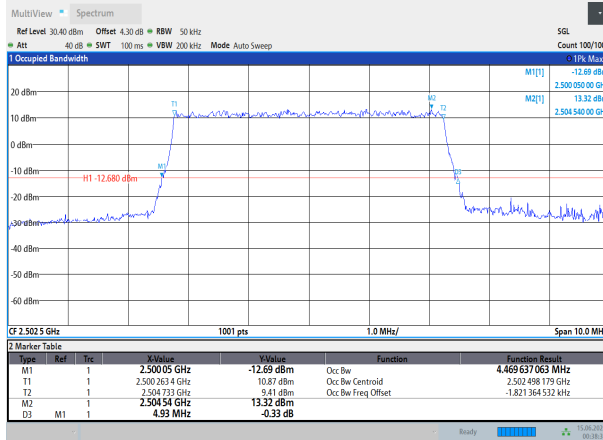
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Band7-5MHz-QPSK-21425-25RB#0



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



00:38:38 15.06.2022



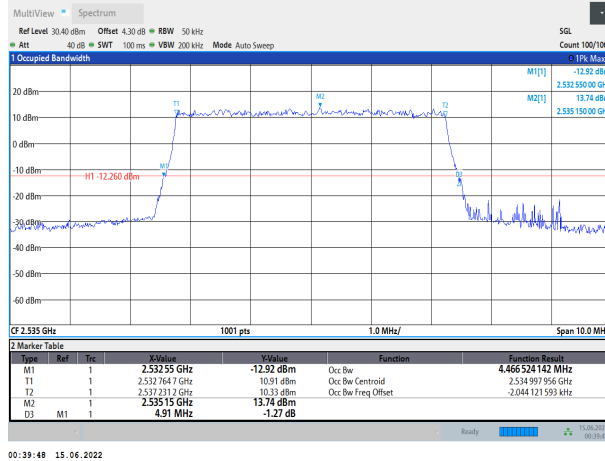
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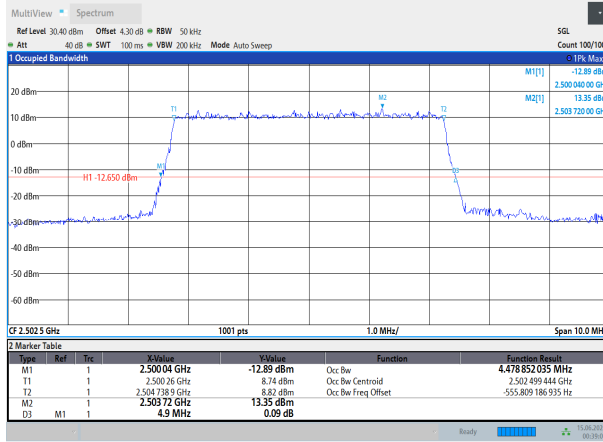
Band7-5MHz-16QAM-21425-25RB#0



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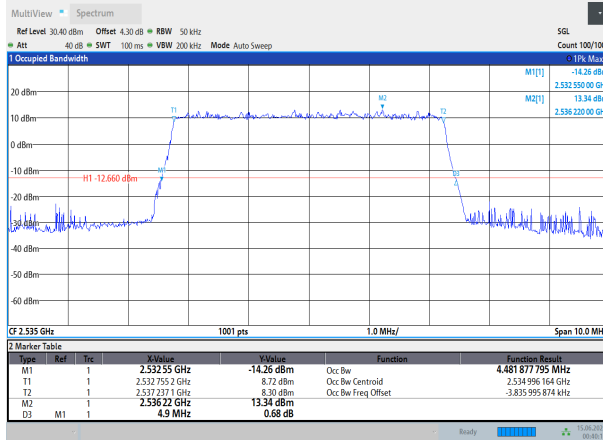
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Band7-5MHz-64QAM-20775-25RB#0



00:39:01 15.06.2022

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



00:40:11 15.06.2022



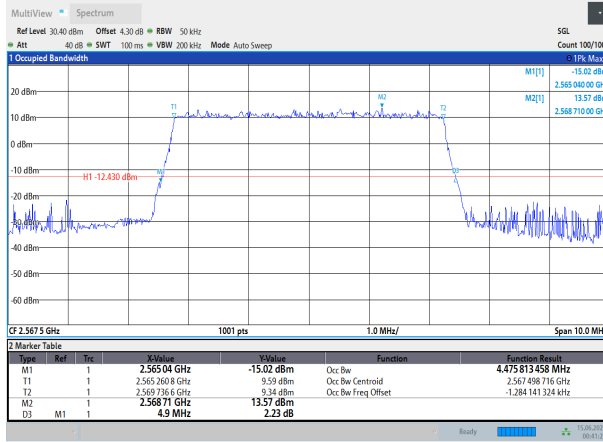
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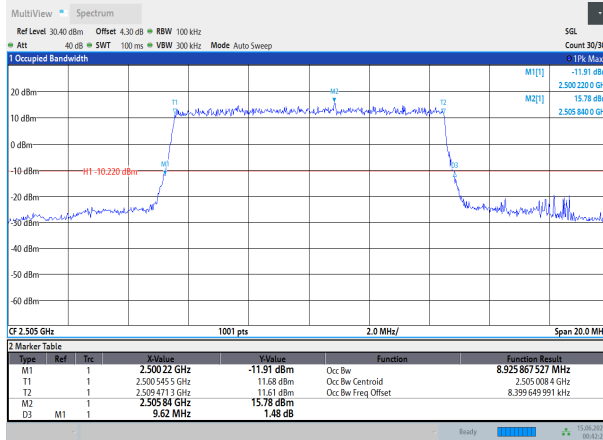


Band7-5MHz-64QAM-21425-25RB#0



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



00:42:20 15.06.2022

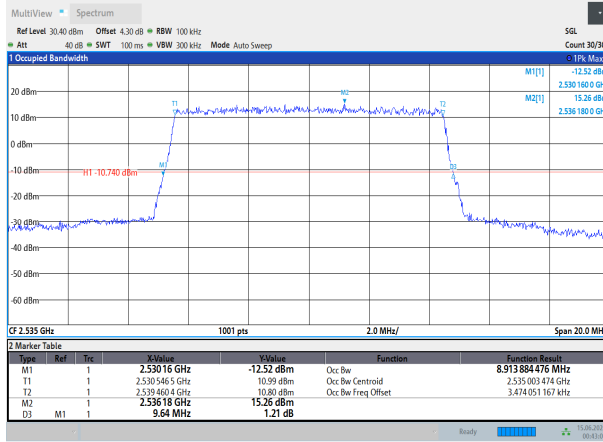


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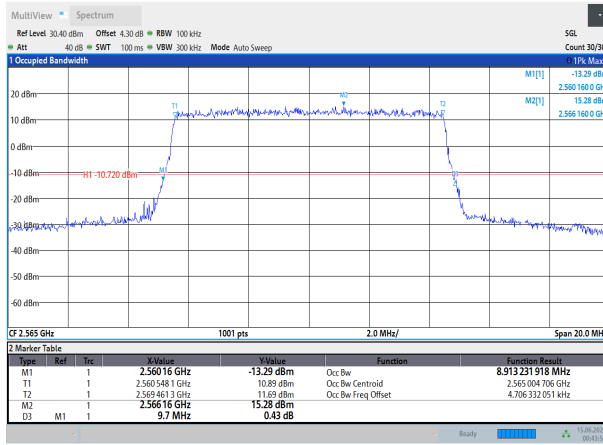
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Band7-10MHz-QPSK-21100-50RB#0



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

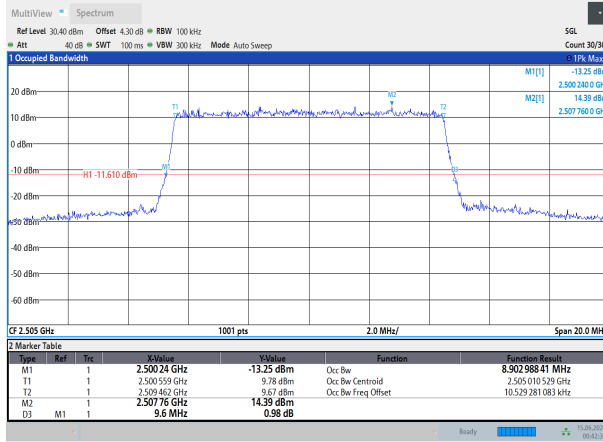


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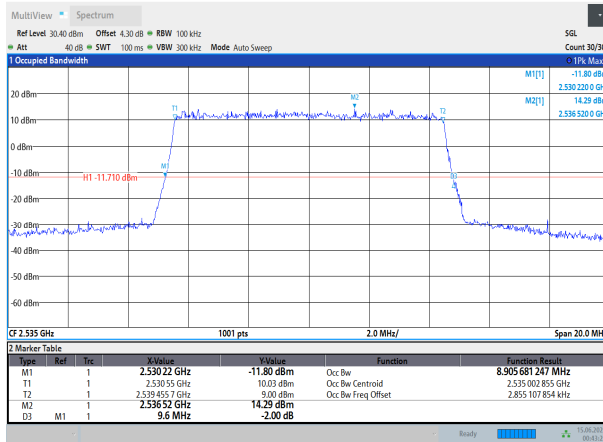


Band7-10MHz-16QAM-20800-50RB#0



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Band7-10MHz-16QAM-21100-50RB#0



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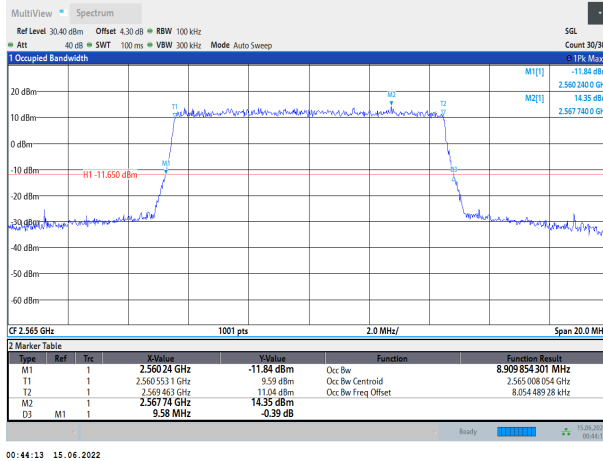
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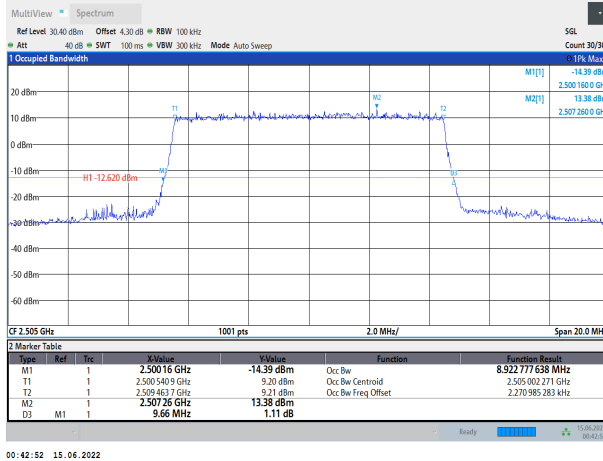
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Band7-10MHz-64QAM-20800-50RB#0

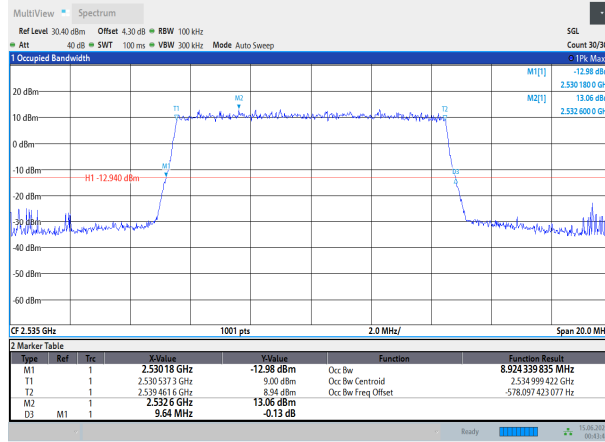


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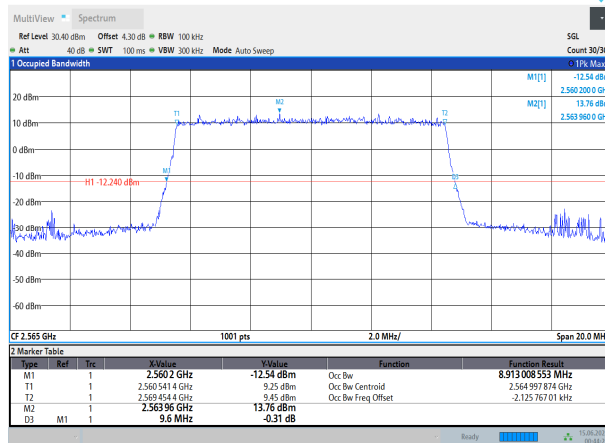
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Band7-10MHz-64QAM-21100-50RB#0



00:49:40 15.06.2022

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



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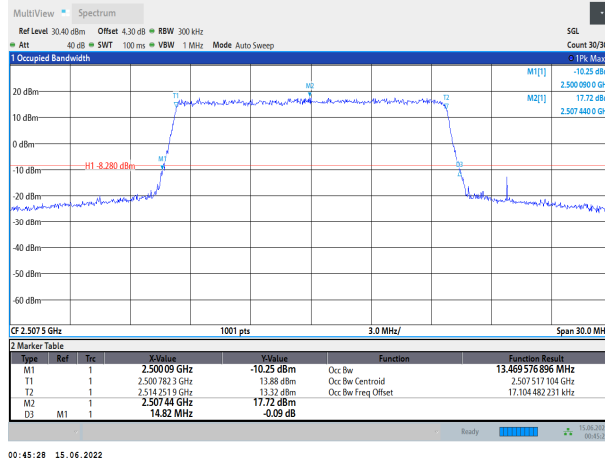


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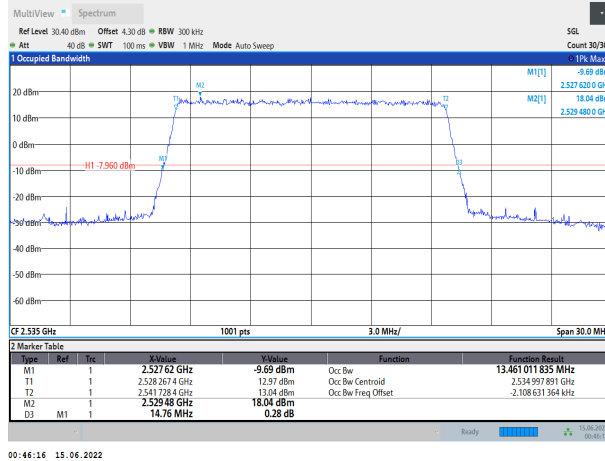
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Band7-15MHz-QPSK-20825-75RB#0



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



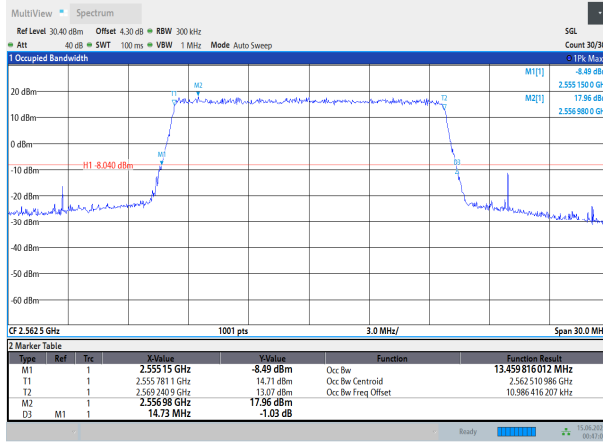
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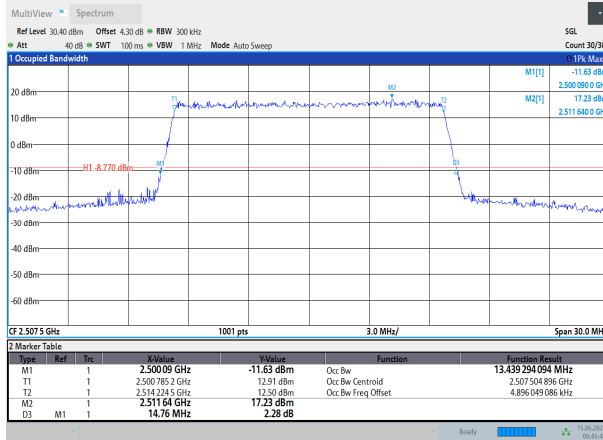


Band7-15MHz-QPSK-21375-75RB#0



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



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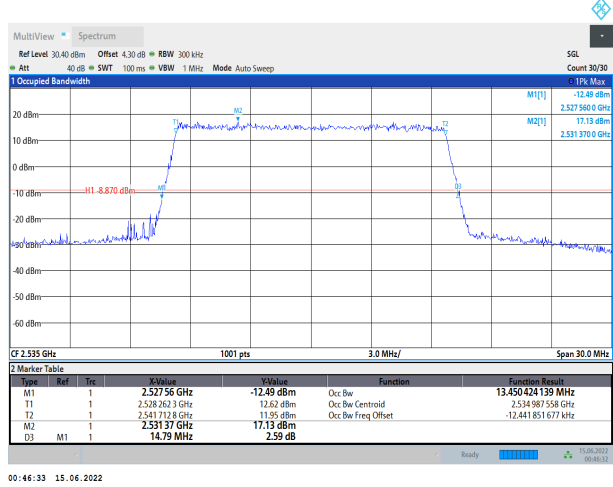


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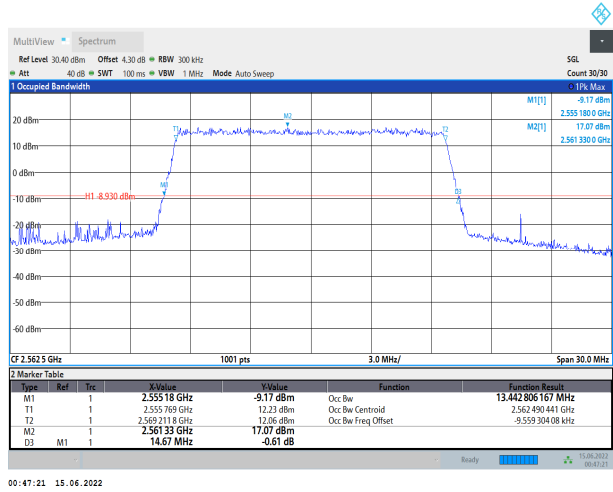
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Band7-15MHz-16QAM-21375-75RB#0

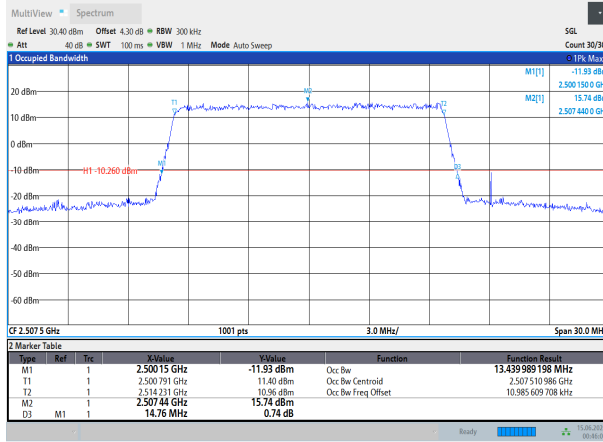


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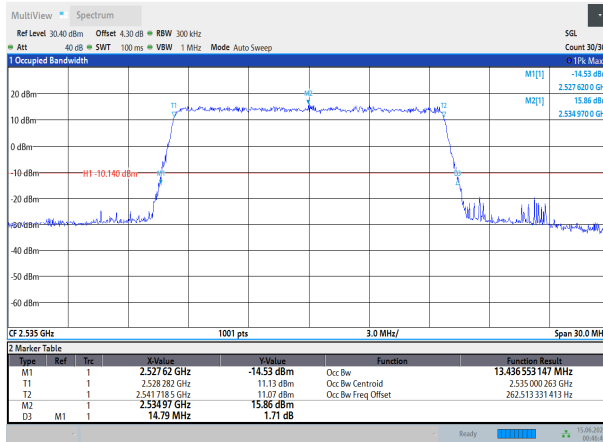


Band7-15MHz-64QAM-20825-75RB#0



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



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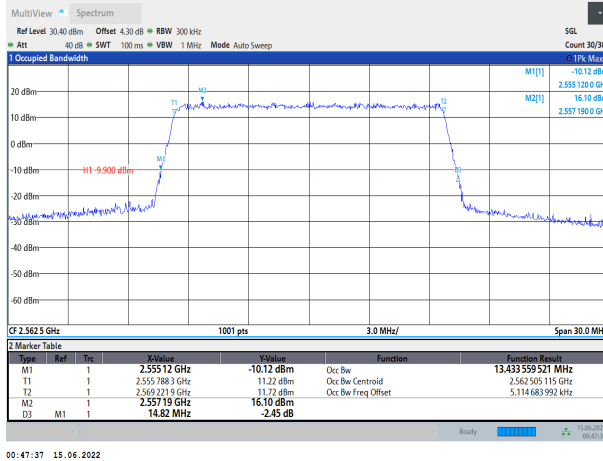


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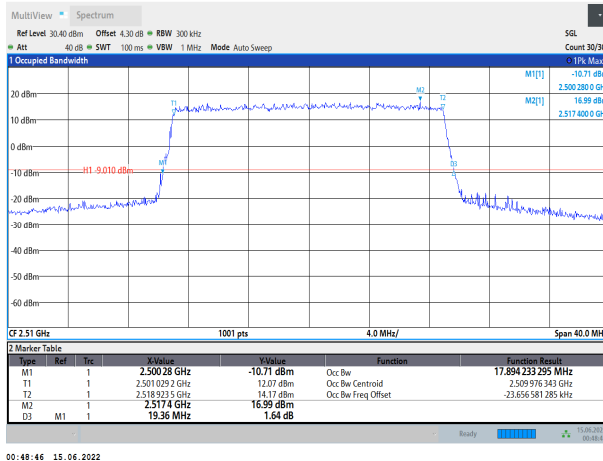
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Band7-15MHz-64QAM-21375-75RB#0



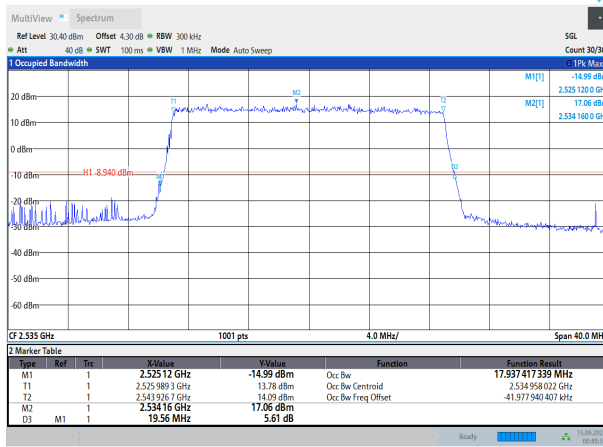
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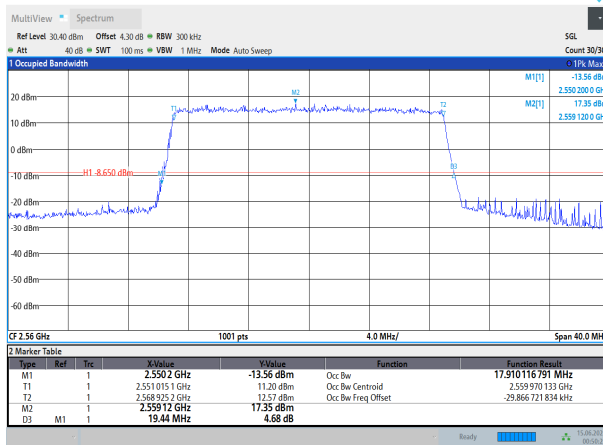
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Band7-20MHz-QPSK-21350-100RB#0



00:50:23 15.06.2022

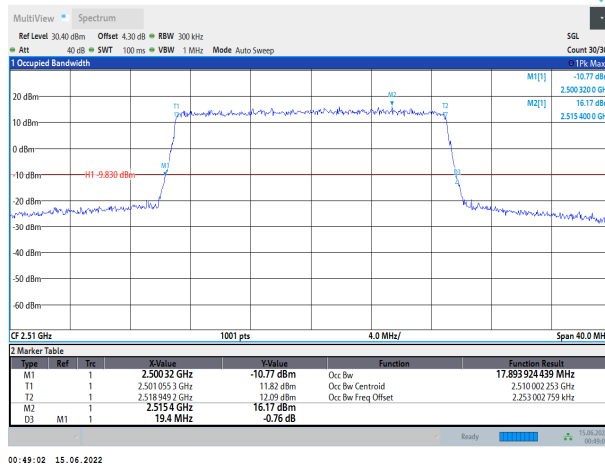


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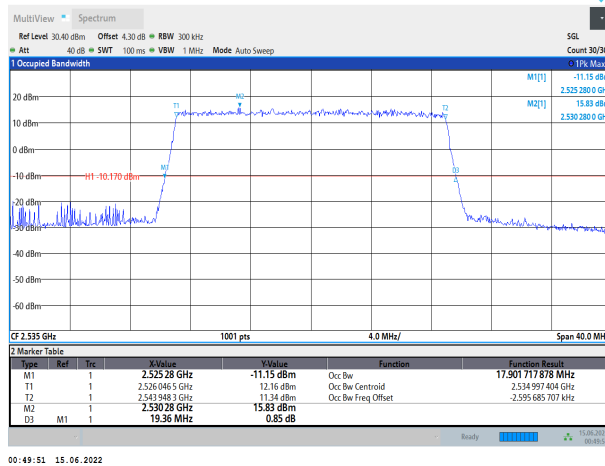
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Band7-20MHz-16QAM-20850-100RB#0



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

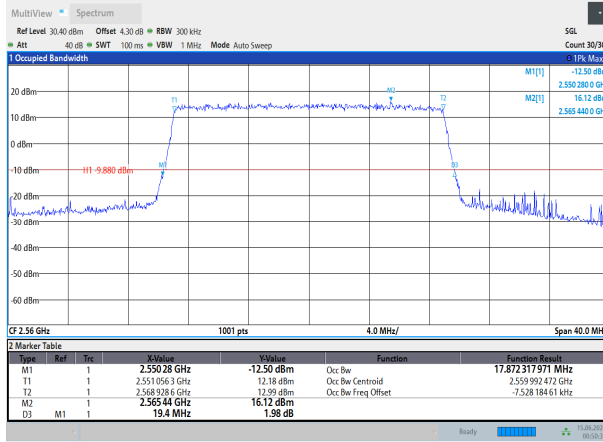


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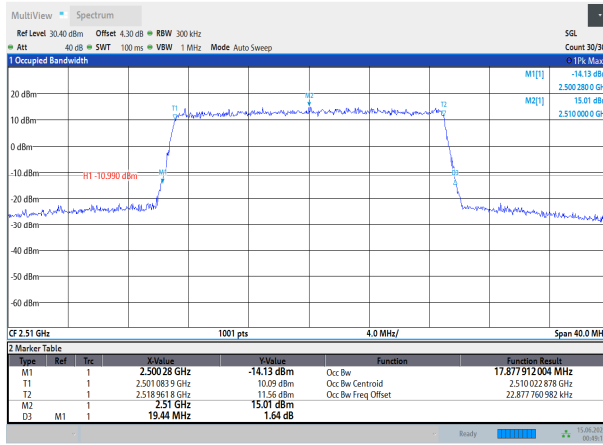
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Band7-20MHz-64QAM-20850-100RB#0



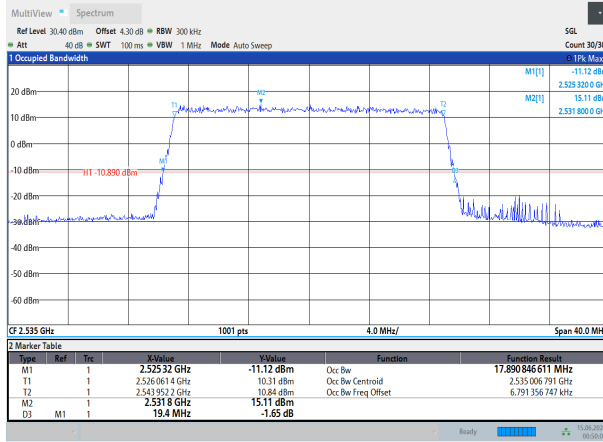
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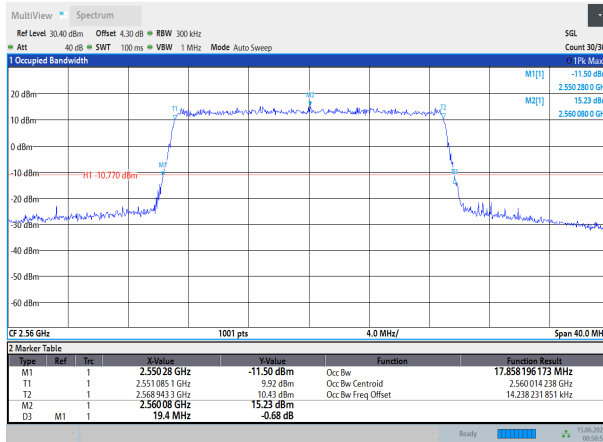
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Band7-20MHz-64QAM-21100-100RB#0



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



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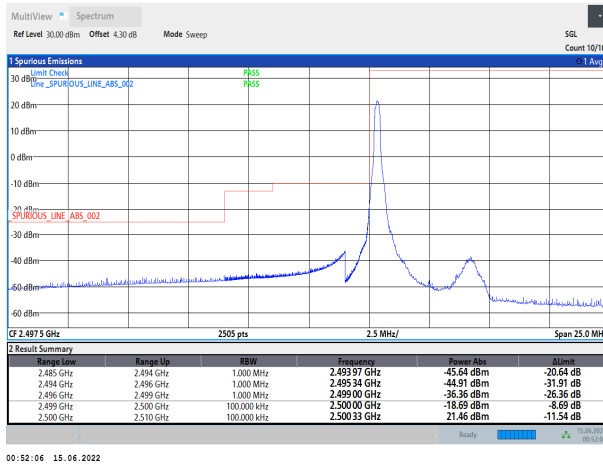
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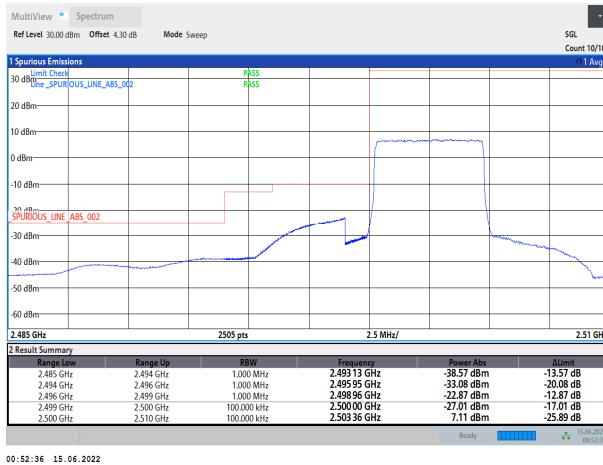
Band Edge

Test Graphs

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



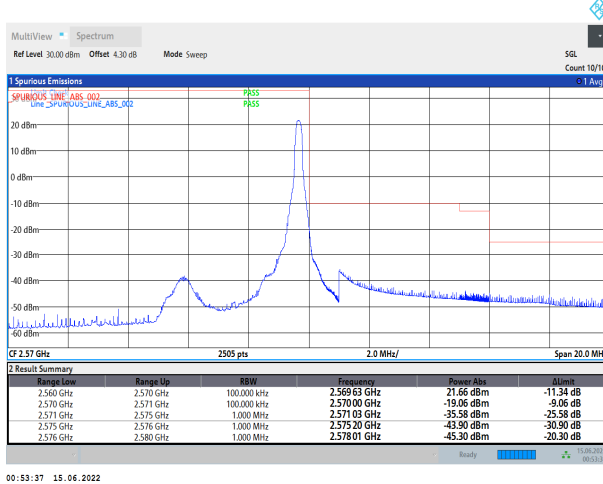
Band7-5MHz-QPSK-20775-25RB#0



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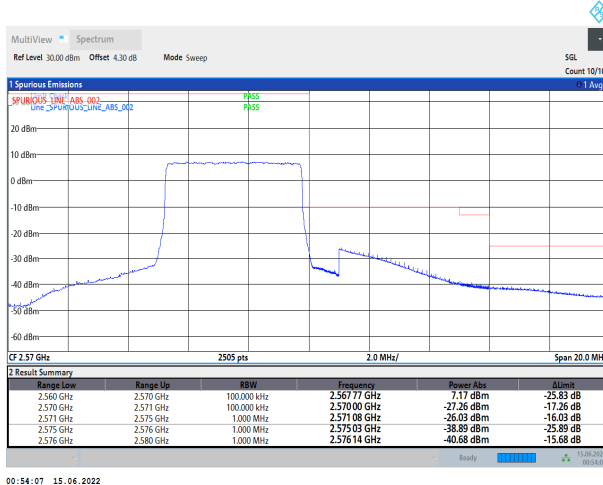
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Band7-5MHz-QPSK-21425-1RB#24



00:53:37 15. 06. 2022

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



00:54:07 15. 06. 2022

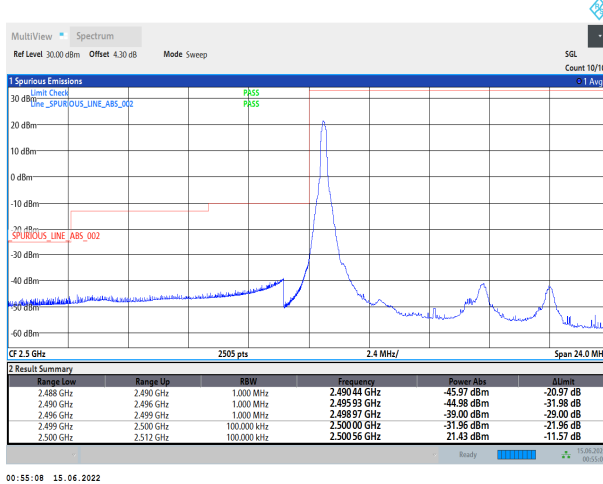


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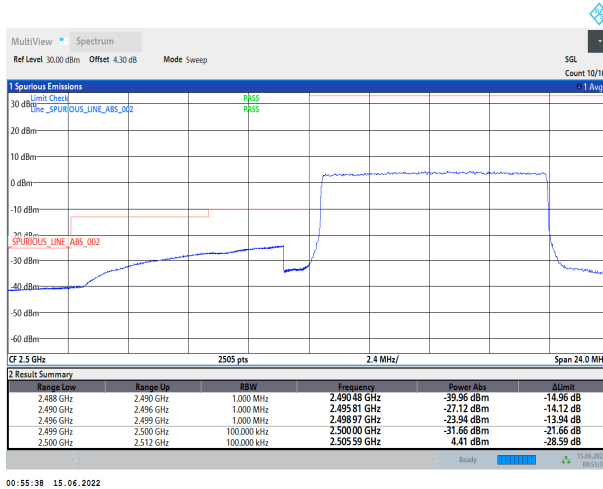
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Band7-10MHz-QPSK-20800-1RB#0



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

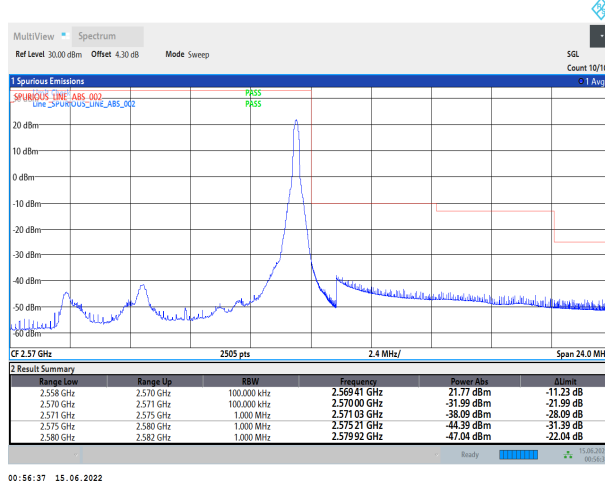


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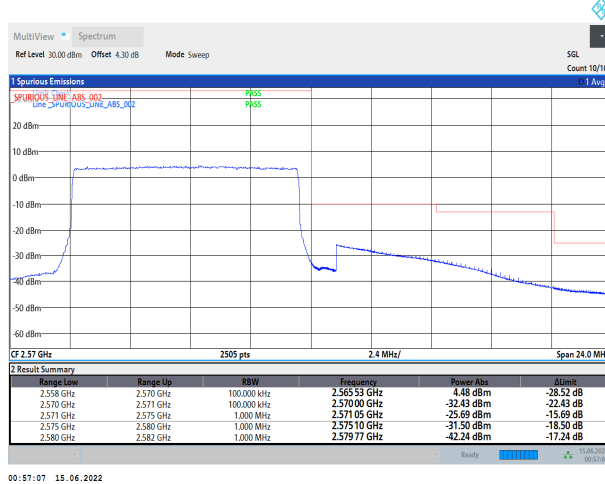
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Band7-10MHz-QPSK-21400-1RB#49



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



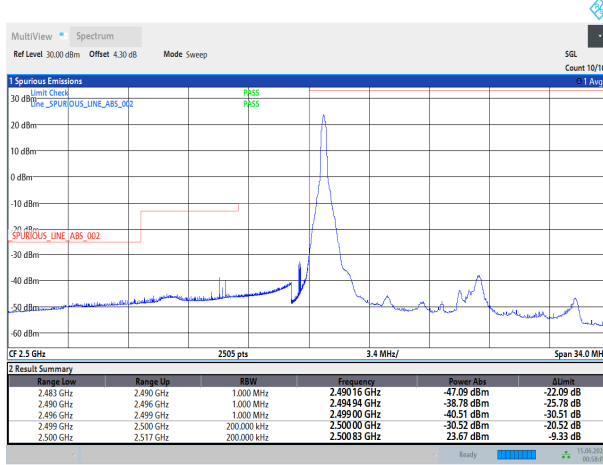
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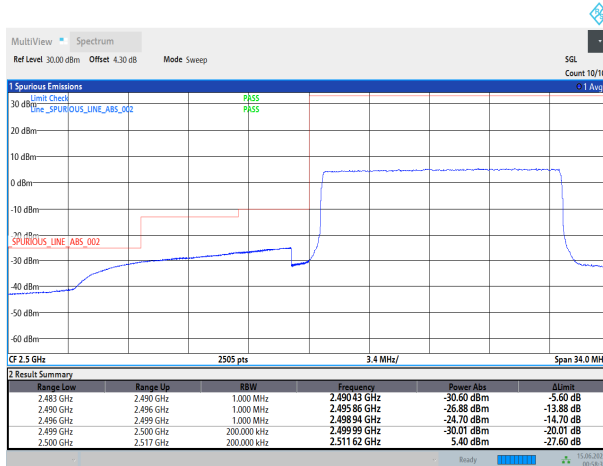


Band7-15MHz-QPSK-20825-1RB#0



00:58:08 15.06.2022

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



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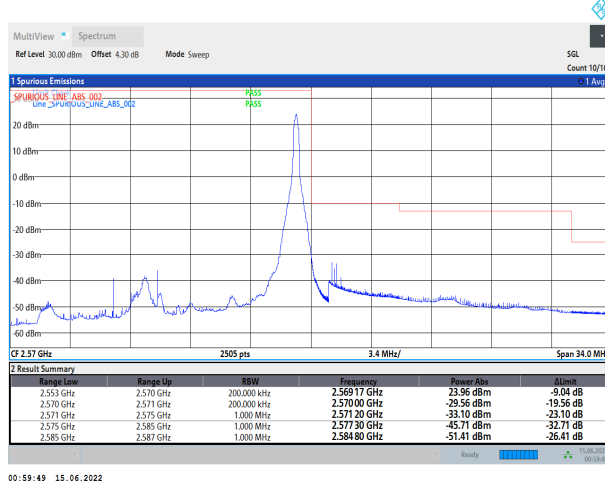


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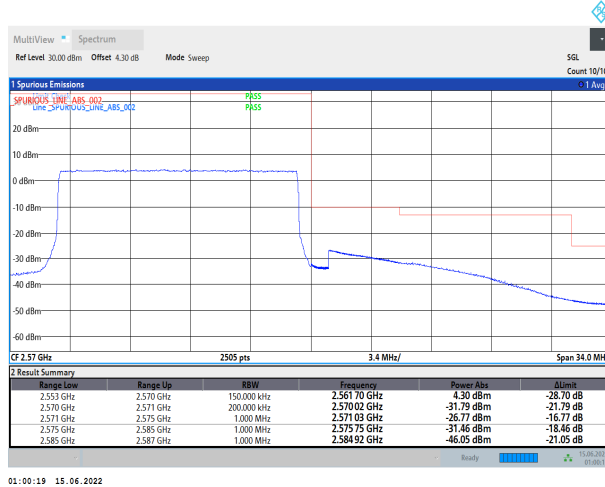
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Band7-15MHz-QPSK-21375-1RB#74



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

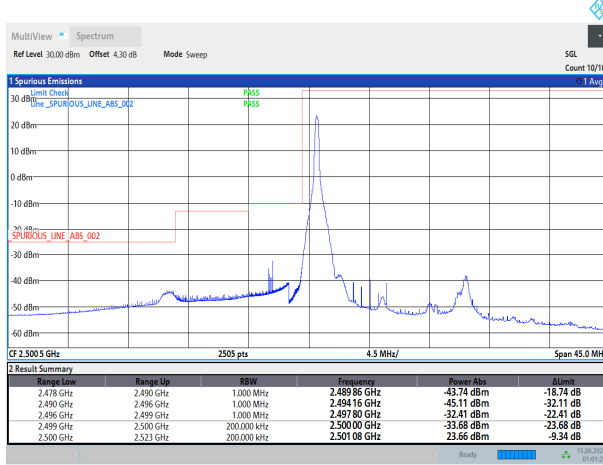


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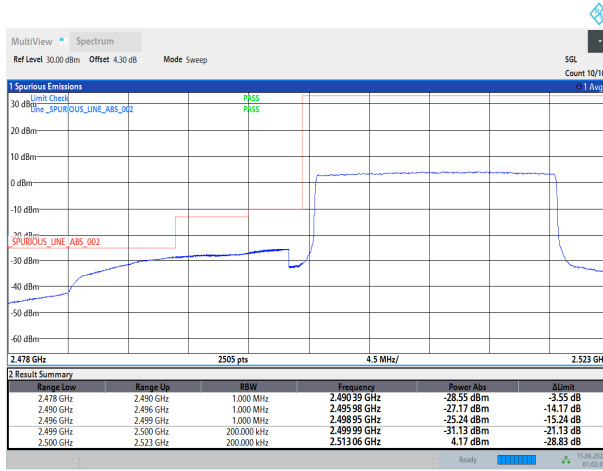
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Band7-20MHz-QPSK-20850-1RB#0



01:01:30 15.06.2022

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



01:02:01 15.06.2022

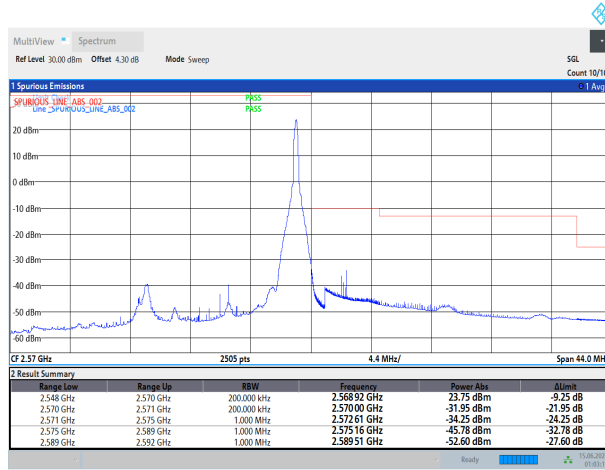


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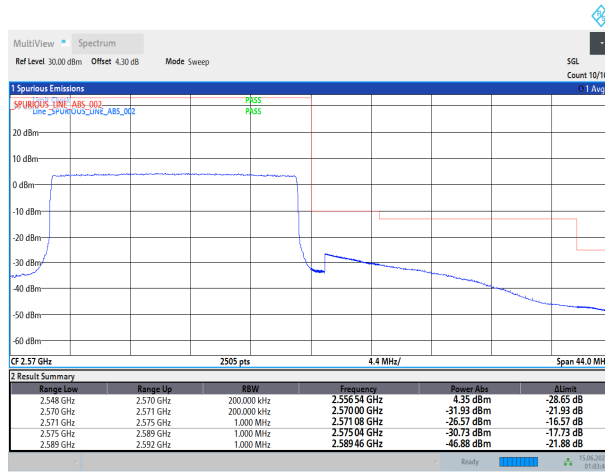
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01:09:11 15.06.2022

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



01:09:42 15.06.2022



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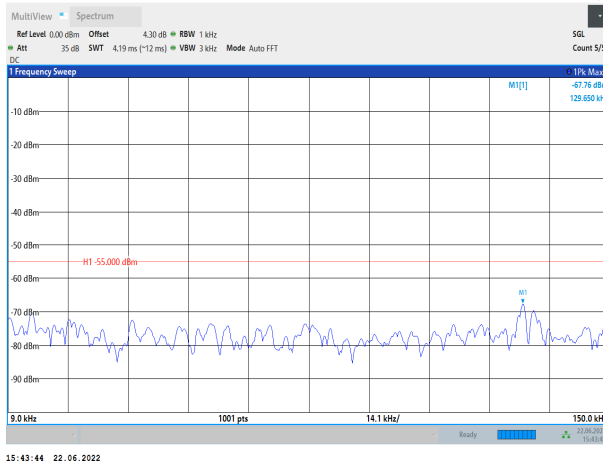
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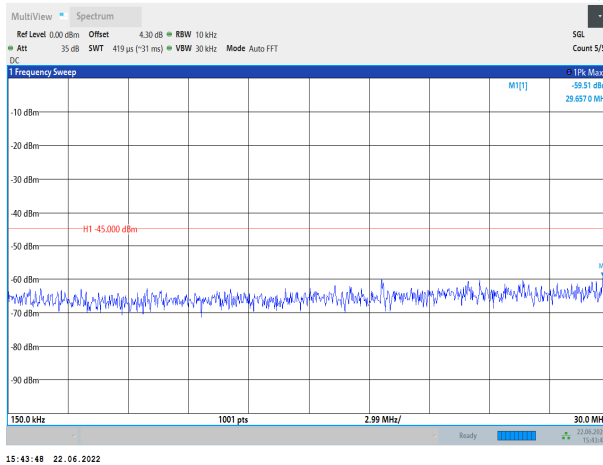
Conducted Spurious Emission

Test Graphs

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



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

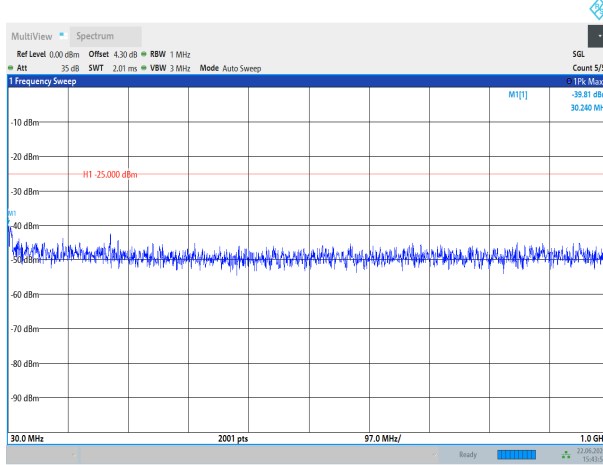


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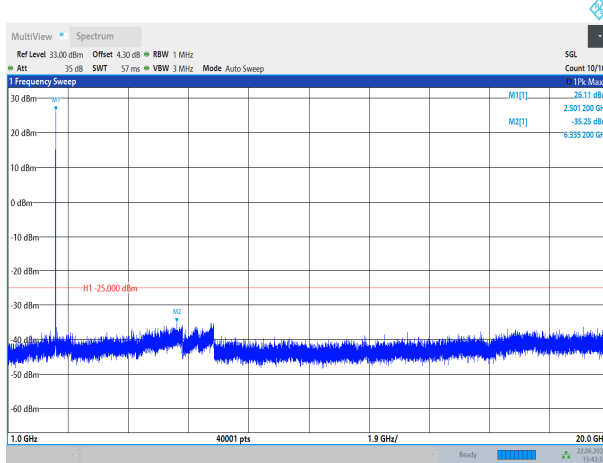


Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz



15:43:52 22.06.2022

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



15:43:57 22.06.2022



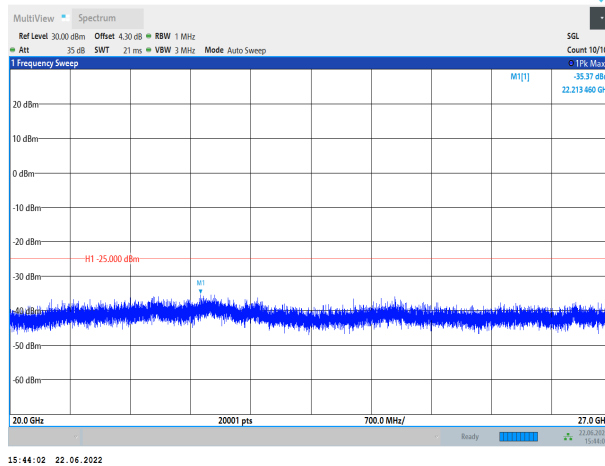
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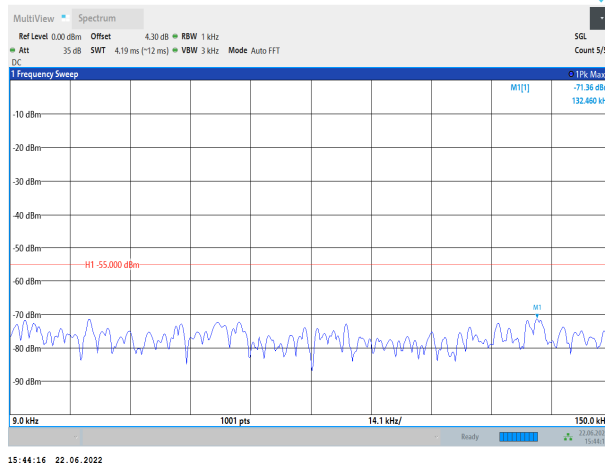
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Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz



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



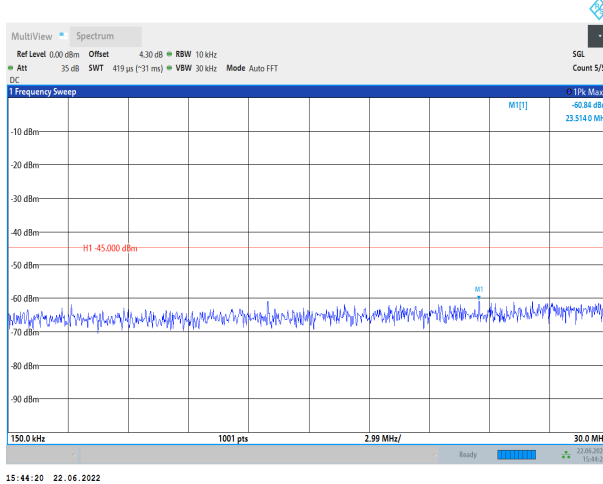
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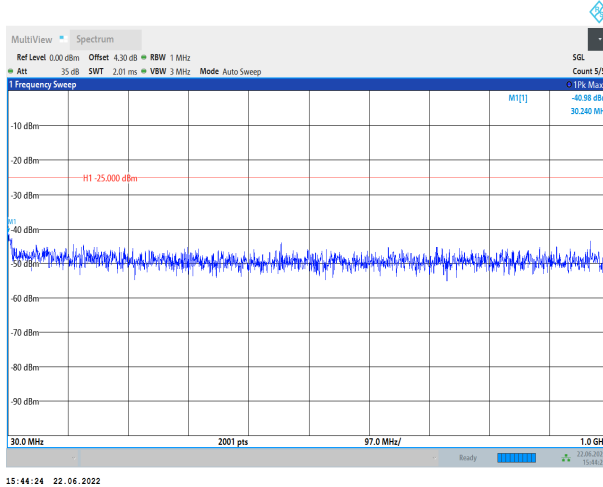
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Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz



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

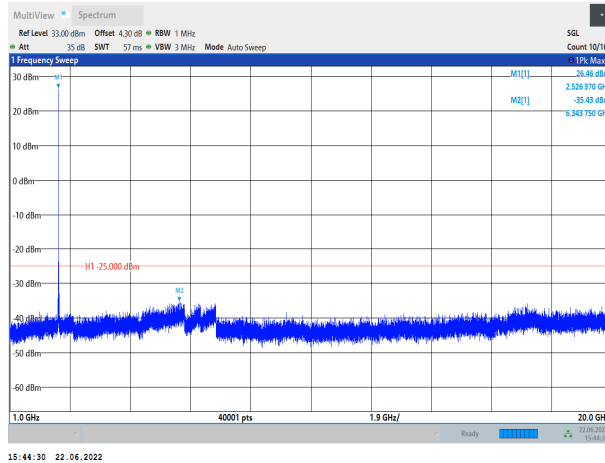


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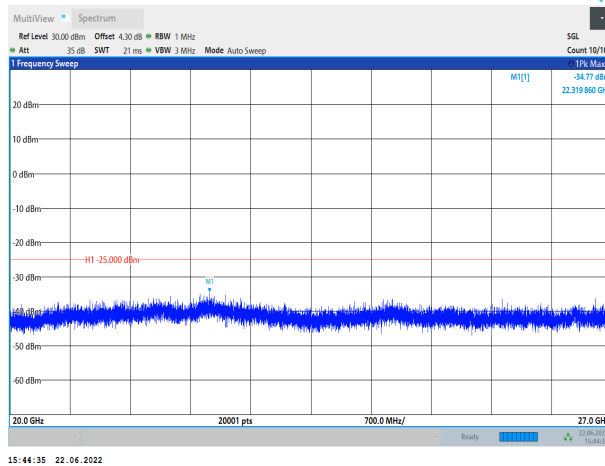
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Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz



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

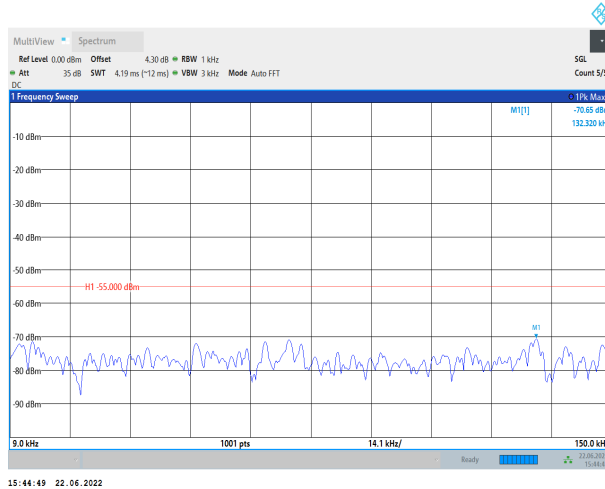


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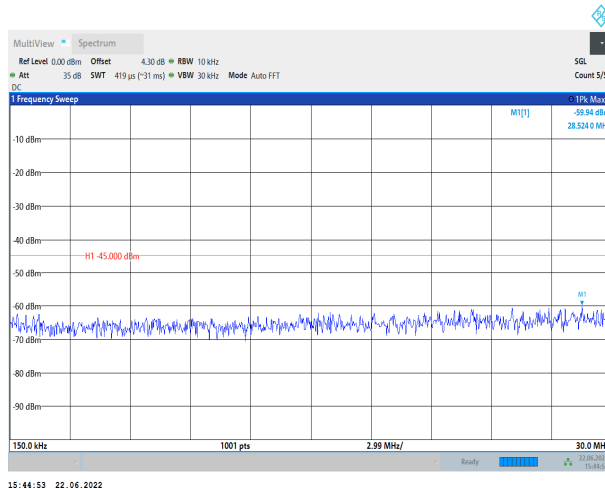


Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



15:44:49 22.06.2022

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



15:44:53 22.06.2022



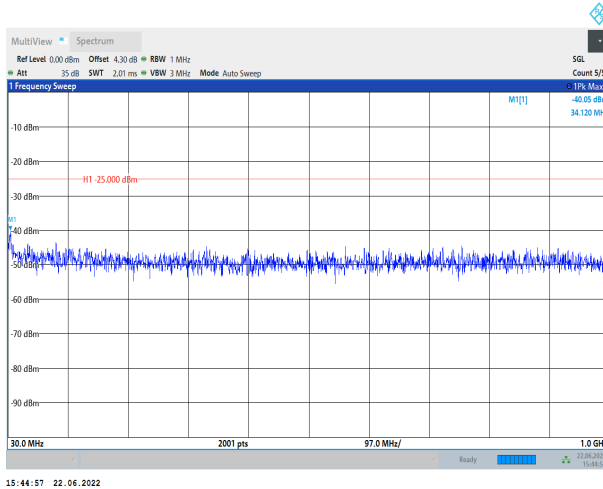
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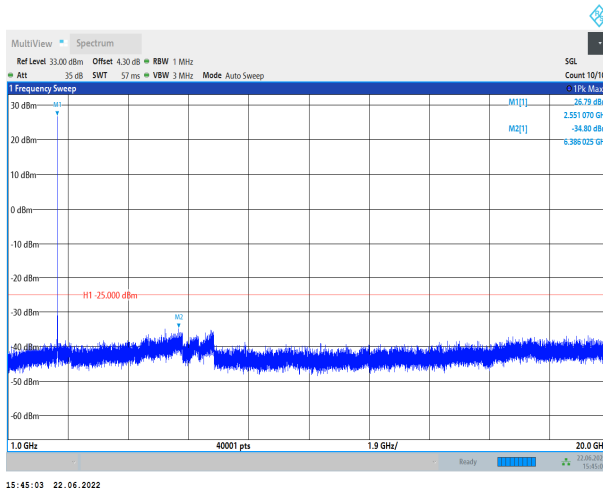
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



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

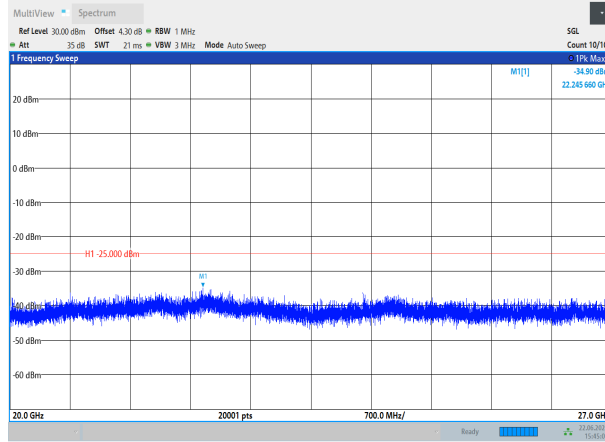


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Band7-20MHz-QPSK-21350-1RB#0-Range5:20000~27000MHz



15:45:08 22.06.2022



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Field Strength of Spurious Radiation

Test Band = LTE Band 7_ TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	48.55	-108.01	-59.46	-25.00	34.46	291	167	Horizontal
2	7503.2700	46.19	-101.95	-55.76	-25.00	30.76	234	288	Horizontal
3	10004.3600	39.87	-96.00	-56.13	-25.00	31.13	182	360	Horizontal
4	12505.4500	36.91	-93.07	-56.16	-25.00	31.16	137	136	Horizontal
5	15006.5400	33.45	-90.70	-57.25	-25.00	32.25	164	227	Horizontal
6	17507.6300	37.91	-90.99	-53.08	-25.00	28.08	284	122	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	49.03	-108.01	-58.98	-25.00	33.98	291	59	Vertical
2	7503.2700	46.06	-101.95	-55.89	-25.00	30.89	134	151	Vertical
3	10004.3600	40.17	-96.00	-55.83	-25.00	30.83	172	270	Vertical
4	12505.4500	37.38	-93.07	-55.69	-25.00	30.69	264	256	Vertical
5	15006.5400	34.26	-90.70	-56.44	-25.00	31.44	284	120	Vertical
6	17507.6300	37.21	-90.99	-53.78	-25.00	28.78	172	151	Vertical



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Test Band = LTE Band 7_ TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.1800	48.26	-107.85	-59.59	-25.00	34.59	261	59	Horizontal
2	7578.2700	46.40	-101.83	-55.43	-25.00	30.43	275	13	Horizontal
3	10104.3600	40.03	-95.74	-55.71	-25.00	30.71	291	328	Horizontal
4	12630.4500	36.77	-93.26	-56.49	-25.00	31.49	162	164	Horizontal
5	15156.5400	34.16	-90.62	-56.46	-25.00	31.46	182	13	Horizontal
6	17682.6300	37.75	-89.09	-51.34	-25.00	26.34	172	209	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.1800	48.83	-107.85	-59.02	-25.00	34.02	291	313	Vertical
2	7578.2700	46.43	-101.83	-55.40	-25.00	30.40	271	133	Vertical
3	10104.3600	41.88	-95.74	-53.86	-25.00	28.86	264	60	Vertical
4	12630.4500	37.34	-93.26	-55.92	-25.00	30.92	173	298	Vertical
5	15156.5400	36.27	-90.62	-54.35	-25.00	29.35	142	60	Vertical
6	17682.6300	38.64	-89.09	-50.45	-25.00	25.45	192	360	Vertical



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Test Band = LTE Band 7_ TM1
Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.1800	48.45	-107.69	-59.24	-25.00	34.24	234	244	Horizontal
2	7653.2700	45.80	-101.80	-56.00	-25.00	31.00	291	322	Horizontal
3	10204.3600	40.45	-95.93	-55.48	-25.00	30.48	271	261	Horizontal
4	12755.4500	37.22	-92.47	-55.25	-25.00	30.25	162	153	Horizontal
5	15306.5400	34.70	-90.80	-56.10	-25.00	31.10	173	4	Horizontal
6	17857.6300	38.80	-88.58	-49.78	-25.00	24.78	194	4	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.1800	50.28	-107.69	-57.41	-25.00	32.41	194	134	Vertical
2	7653.2700	47.89	-101.80	-53.91	-25.00	28.91	137	195	Vertical
3	10204.3600	40.65	-95.93	-55.28	-25.00	30.28	100	60	Vertical
4	12755.4500	37.33	-92.47	-55.14	-25.00	30.14	294	120	Vertical
5	15306.5400	33.83	-90.80	-56.97	-25.00	31.97	273	209	Vertical
6	17857.6300	38.59	-88.58	-49.99	-25.00	24.99	193	224	Vertical

Remark:

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

$$\text{Level} = \text{Reading Level(dB}\mu\text{V)} + \text{Factor(dB)}$$

$$\text{Factor} = \text{AF(dB/m)} + \text{Cable Factor(dB)} - \text{Preamplifier gain(dB)}$$

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

$$\text{Margin} = \text{Limit(dBm)} - \text{Level(dBm)}$$





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	-10.20	-0.004024	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	1.70	0.000671	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-9.40	-0.003708	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	2.00	0.000789	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	5.90	0.002327	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	4.50	0.001775	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-5.80	-0.002288	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-3.70	-0.001460	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	5.80	0.002288	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-7.50	-0.002959	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-9.40	-0.003708	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-2.20	-0.000868	PASS

The End



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