

Report No.: SEWM2207000122RG01

Rev.: 01

Page: 1 of 55

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	23.98	23.58	33	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.98	23.58	33	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.87	23.47	33	PASS
Band7	5MHz	QPSK	20775	25RB#0	23.12	22.72	33	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.75	23.35	33	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.82	23.42	33	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.71	23.31	33	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.83	22.43	33	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.76	23.36	33	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.87	23.47	33	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.78	23.38	33	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.9	22.5	33	PASS
Band7	5MHz	16QAM	20775	1RB#0	23.27	22.87	33	PASS
Band7	5MHz	16QAM	20775	1RB#12	23.38	22.98	33	PASS
Band7	5MHz	16QAM	20775	1RB#24	23.21	22.81	33	PASS
Band7	5MHz	16QAM	20775	25RB#0	22.12	21.72	33	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.97	22.57	33	PASS
Band7	5MHz	16QAM	21100	1RB#12	23.08	22.68	33	PASS
Band7	5MHz	16QAM	21100	1RB#24	23.06	22.66	33	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.83	21.43	33	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.99	22.59	33	PASS
Band7	5MHz	16QAM	21425	1RB#12	23.16	22.76	33	PASS
Band7	5MHz	16QAM	21425	1RB#24	23.07	22.67	33	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.9	21.5	33	PASS
Band7	5MHz	64QAM	20775	1RB#0	22.21	21.81	33	PASS
Band7	5MHz	64QAM	20775	1RB#12	22.37	21.97	33	PASS
Band7	5MHz	64QAM	20775	1RB#24	22.25	21.85	33	PASS



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Report No.: SEWM2207000122RG01

Rev.: 01

Page: 3 of 55

Band7	5MHz	64QAM	20775	25RB#0	21.13	20.73	33	PASS
Band7	5MHz	64QAM	21100	1RB#0	21.93	21.53	33	PASS
Band7	5MHz	64QAM	21100	1RB#12	22.07	21.67	33	PASS
Band7	5MHz	64QAM	21100	1RB#24	21.89	21.49	33	PASS
Band7	5MHz	64QAM	21100	25RB#0	20.87	20.47	33	PASS
Band7	5MHz	64QAM	21425	1RB#0	21.96	21.56	33	PASS
Band7	5MHz	64QAM	21425	1RB#12	22.13	21.73	33	PASS
Band7	5MHz	64QAM	21425	1RB#24	21.96	21.56	33	PASS
Band7	5MHz	64QAM	21425	25RB#0	20.91	20.51	33	PASS
Band7	10MHz	QPSK	20800	1RB#0	23	22.6	33	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.41	23.01	33	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.99	23.59	33	PASS
Band7	10MHz	QPSK	20800	50RB#0	23.15	22.75	33	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.84	23.44	33	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.89	23.49	33	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.85	23.45	33	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.94	22.54	33	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.87	23.47	33	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.91	23.51	33	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.86	23.46	33	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.97	22.57	33	PASS
Band7	10MHz	16QAM	20800	1RB#0	23.45	23.05	33	PASS
Band7	10MHz	16QAM	20800	1RB#24	23.4	23	33	PASS
Band7	10MHz	16QAM	20800	1RB#49	23.22	22.82	33	PASS
Band7	10MHz	16QAM	20800	50RB#0	22.12	21.72	33	PASS
Band7	10MHz	16QAM	21100	1RB#0	23.19	22.79	33	PASS
Band7	10MHz	16QAM	21100	1RB#24	23.13	22.73	33	PASS
Band7	10MHz	16QAM	21100	1RB#49	23.12	22.72	33	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.9	21.5	33	PASS
Band7	10MHz	16QAM	21400	1RB#0	23.12	22.72	33	PASS
Band7	10MHz	16QAM	21400	1RB#24	23.21	22.81	33	PASS
Band7	10MHz	16QAM	21400	1RB#49	23.17	22.77	33	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.92	21.52	33	PASS



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Band7	10MHz	64QAM	20800	1RB#0	22.36	21.96	33	PASS
Band7	10MHz	64QAM	20800	1RB#24	22.31	21.91	33	PASS
Band7	10MHz	64QAM	20800	1RB#49	22.27	21.87	33	PASS
Band7	10MHz	64QAM	20800	50RB#0	21.12	20.72	33	PASS
Band7	10MHz	64QAM	21100	1RB#0	22.03	21.63	33	PASS
Band7	10MHz	64QAM	21100	1RB#24	22.03	21.63	33	PASS
Band7	10MHz	64QAM	21100	1RB#49	22.11	21.71	33	PASS
Band7	10MHz	64QAM	21100	50RB#0	20.93	20.53	33	PASS
Band7	10MHz	64QAM	21400	1RB#0	22.15	21.75	33	PASS
Band7	10MHz	64QAM	21400	1RB#24	22.07	21.67	33	PASS
Band7	10MHz	64QAM	21400	1RB#49	22.05	21.65	33	PASS
Band7	10MHz	64QAM	21400	50RB#0	20.97	20.57	33	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.24	22.84	33	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.54	23.14	33	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.96	23.56	33	PASS
Band7	15MHz	QPSK	20825	75RB#0	23.1	22.7	33	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.82	23.42	33	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.91	23.51	33	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.77	23.37	33	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.9	22.5	33	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.76	23.36	33	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.93	23.53	33	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.79	23.39	33	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.93	22.53	33	PASS
Band7	15MHz	16QAM	20825	1RB#0	23.37	22.97	33	PASS
Band7	15MHz	16QAM	20825	1RB#38	23.45	23.05	33	PASS
Band7	15MHz	16QAM	20825	1RB#74	23.28	22.88	33	PASS
Band7	15MHz	16QAM	20825	75RB#0	22.07	21.67	33	PASS
Band7	15MHz	16QAM	21100	1RB#0	23.04	22.64	33	PASS
Band7	15MHz	16QAM	21100	1RB#38	23.21	22.81	33	PASS
Band7	15MHz	16QAM	21100	1RB#74	23.05	22.65	33	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.88	21.48	33	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.98	22.58	33	PASS



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Band7	15MHz	16QAM	21375	1RB#38	23.22	22.82	33	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.95	22.55	33	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.89	21.49	33	PASS
Band7	15MHz	64QAM	20825	1RB#0	22.31	21.91	33	PASS
Band7	15MHz	64QAM	20825	1RB#38	22.34	21.94	33	PASS
Band7	15MHz	64QAM	20825	1RB#74	22.18	21.78	33	PASS
Band7	15MHz	64QAM	20825	75RB#0	21.07	20.67	33	PASS
Band7	15MHz	64QAM	21100	1RB#0	22.05	21.65	33	PASS
Band7	15MHz	64QAM	21100	1RB#38	22.11	21.71	33	PASS
Band7	15MHz	64QAM	21100	1RB#74	22.03	21.63	33	PASS
Band7	15MHz	64QAM	21100	75RB#0	20.9	20.5	33	PASS
Band7	15MHz	64QAM	21375	1RB#0	22.02	21.62	33	PASS
Band7	15MHz	64QAM	21375	1RB#38	22.1	21.7	33	PASS
Band7	15MHz	64QAM	21375	1RB#74	21.97	21.57	33	PASS
Band7	15MHz	64QAM	21375	75RB#0	20.91	20.51	33	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.93	23.53	33	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.85	23.45	33	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.8	23.4	33	PASS
Band7	20MHz	QPSK	20850	100RB#0	23.01	22.61	33	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.73	23.33	33	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.88	23.48	33	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.69	23.29	33	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.87	22.47	33	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.7	23.3	33	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.94	23.54	33	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.7	23.3	33	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.87	22.47	33	PASS
Band7	20MHz	16QAM	20850	1RB#0	23.11	22.71	33	PASS
Band7	20MHz	16QAM	20850	1RB#49	23.33	22.93	33	PASS
Band7	20MHz	16QAM	20850	1RB#99	23.1	22.7	33	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.96	21.56	33	PASS
Band7	20MHz	16QAM	21100	1RB#0	23.05	22.65	33	PASS
Band7	20MHz	16QAM	21100	1RB#49	23.17	22.77	33	PASS



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Report No.: SEWM2207000122RG01

Rev.: 01

Page: 6 of 55

Band7	20MHz	16QAM	21100	1RB#99	22.9	22.5	33	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.84	21.44	33	PASS
Band7	20MHz	16QAM	21350	1RB#0	23.03	22.63	33	PASS
Band7	20MHz	16QAM	21350	1RB#49	23.13	22.73	33	PASS
Band7	20MHz	16QAM	21350	1RB#99	23.01	22.61	33	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.84	21.44	33	PASS
Band7	20MHz	64QAM	20850	1RB#0	22.16	21.76	33	PASS
Band7	20MHz	64QAM	20850	1RB#49	22.37	21.97	33	PASS
Band7	20MHz	64QAM	20850	1RB#99	21.97	21.57	33	PASS
Band7	20MHz	64QAM	20850	100RB#0	20.99	20.59	33	PASS
Band7	20MHz	64QAM	21100	1RB#0	21.98	21.58	33	PASS
Band7	20MHz	64QAM	21100	1RB#49	22.17	21.77	33	PASS
Band7	20MHz	64QAM	21100	1RB#99	21.94	21.54	33	PASS
Band7	20MHz	64QAM	21100	100RB#0	20.87	20.47	33	PASS
Band7	20MHz	64QAM	21350	1RB#0	21.9	21.5	33	PASS
Band7	20MHz	64QAM	21350	1RB#49	22.17	21.77	33	PASS
Band7	20MHz	64QAM	21350	1RB#99	22	21.6	33	PASS
Band7	20MHz	64QAM	21350	100RB#0	20.86	20.46	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	5.62	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.64	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.62	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.52	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.50	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.56	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.78	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.72	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.70	13	PASS



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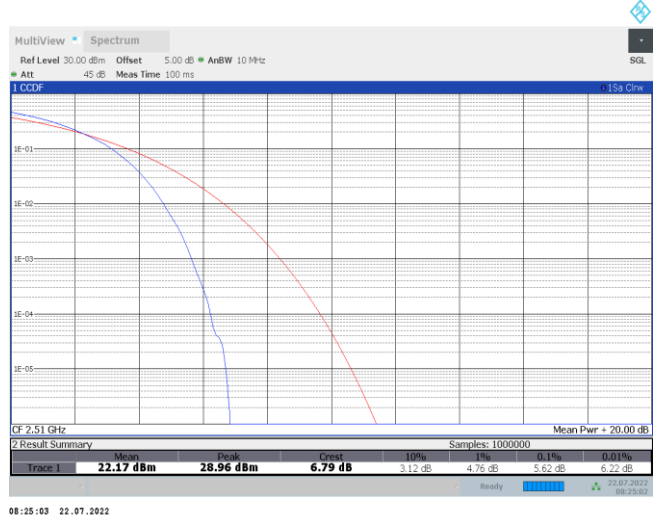
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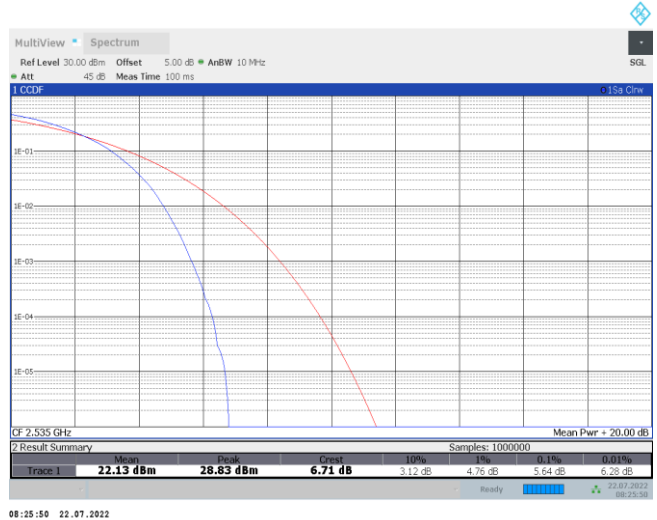
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Test Graphs

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



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

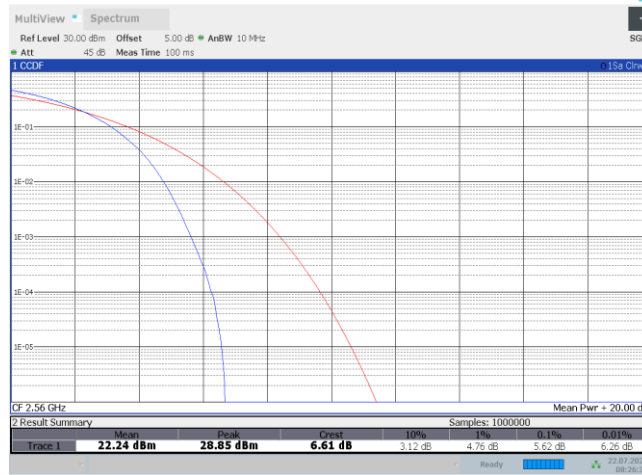


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Band7-20MHz-QPSK-21350-100RB#0



08:26:38 22.07.2022

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



08:25:19 22.07.2022



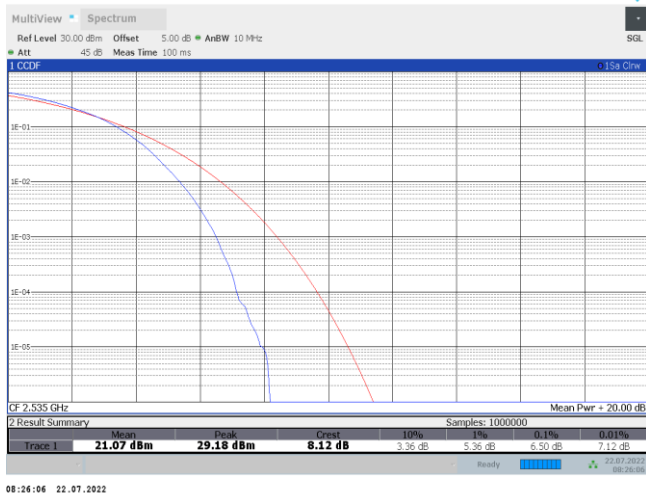
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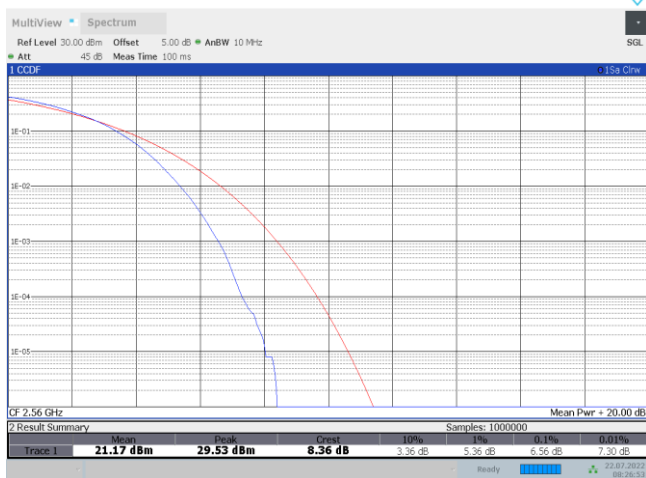
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Band7-20MHz-16QAM-21100-100RB#0



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

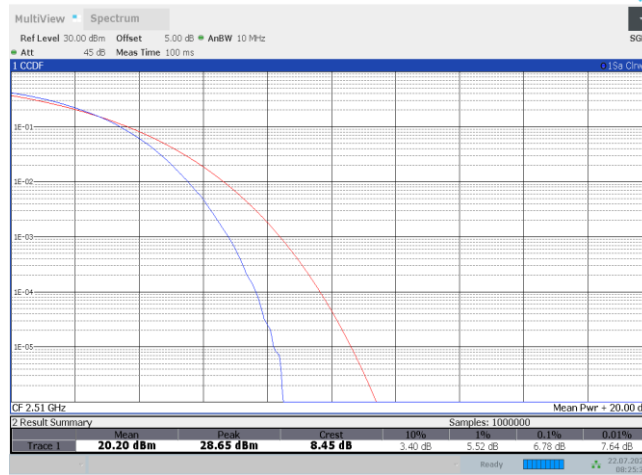


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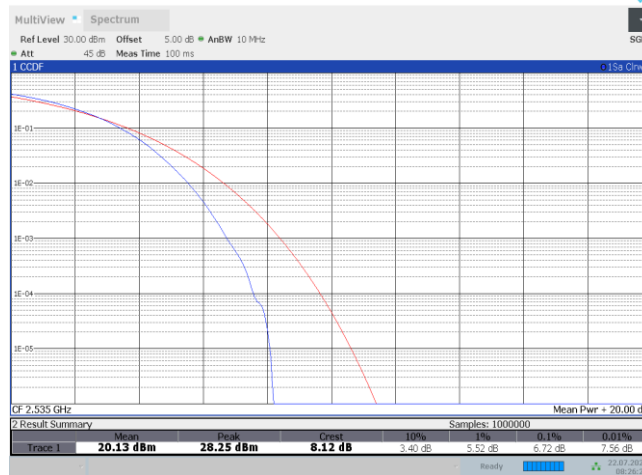
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Band7-20MHz-64QAM-20850-100RB#0



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

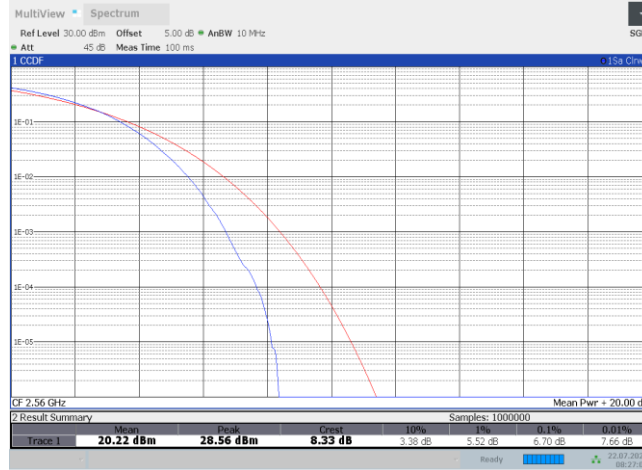


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Modulation Characteristics

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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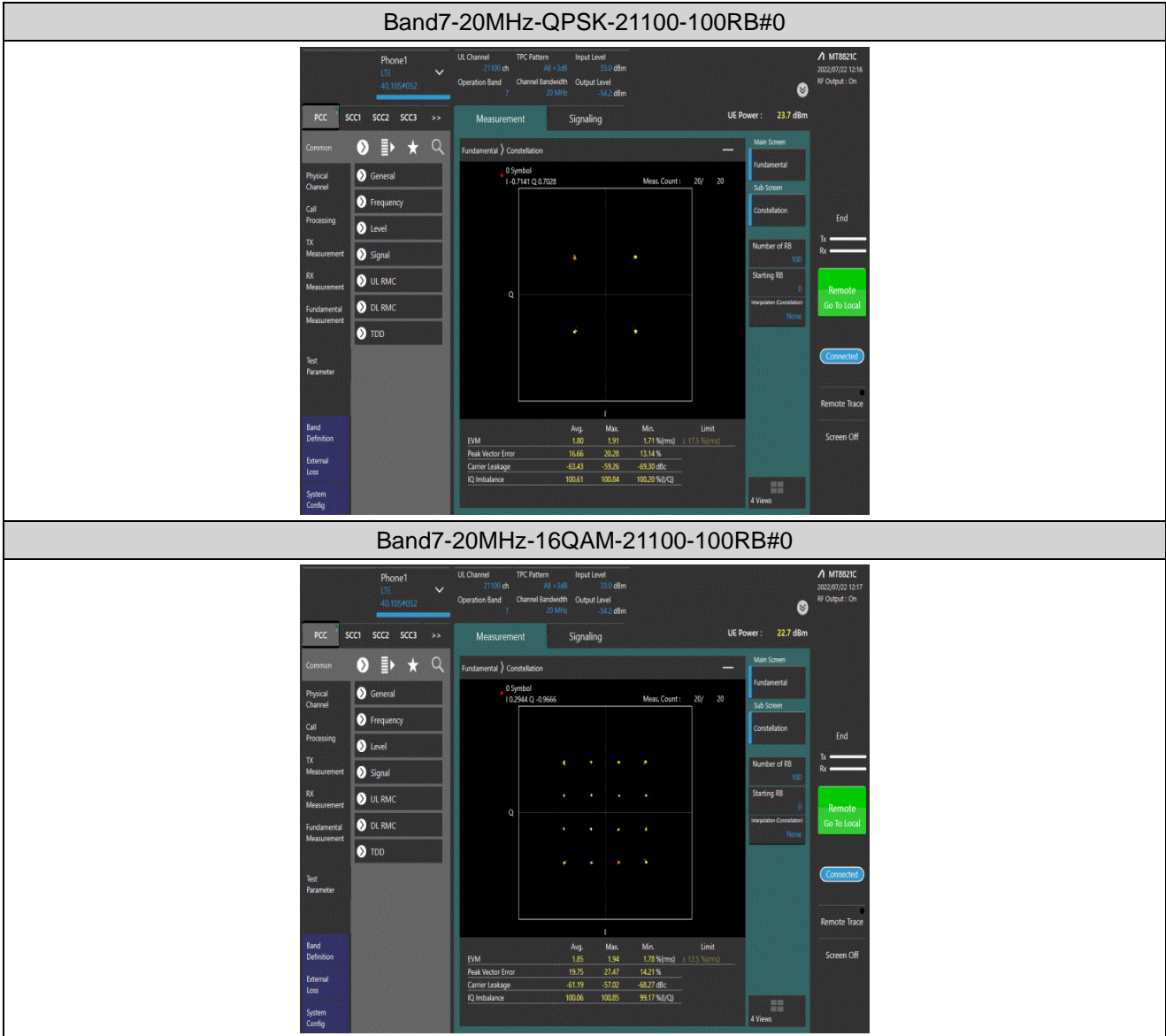
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Test Graphs

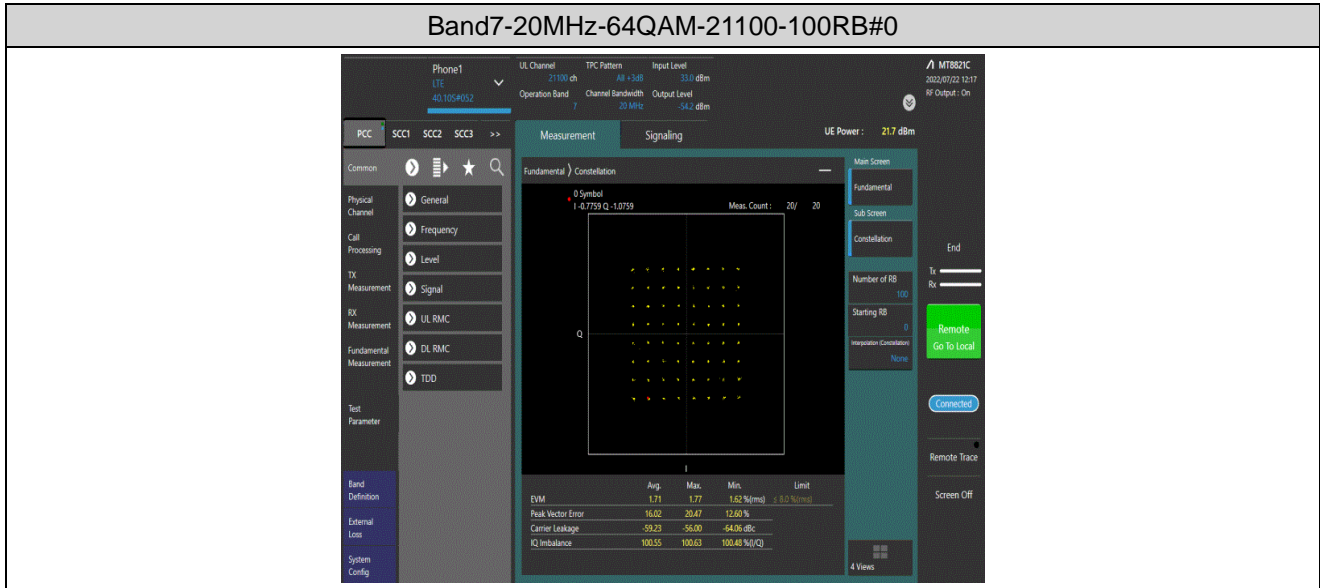


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.454	4.75	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.470	4.83	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.467	4.85	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.464	4.86	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.469	4.86	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.467	4.88	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.474	4.85	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.477	4.87	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.476	4.86	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.922	9.60	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.937	9.60	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.930	9.58	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.920	9.60	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.922	9.56	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.915	9.56	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.924	9.62	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.926	9.58	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.940	9.62	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.451	14.58	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.449	14.64	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.458	14.64	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.434	14.64	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.445	14.73	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.446	14.64	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.418	14.67	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.423	14.70	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.422	14.67	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.906	19.32	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.878	19.36	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.924	19.44	PASS



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Report No.: SEWM2207000122RG01

Rev.: 01

Page: 17 of 55

Band7	20MHz	16QAM	20850	100RB#0	17.861	19.28	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.861	19.24	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.872	19.28	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.854	19.24	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.872	19.32	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.848	19.36	PASS



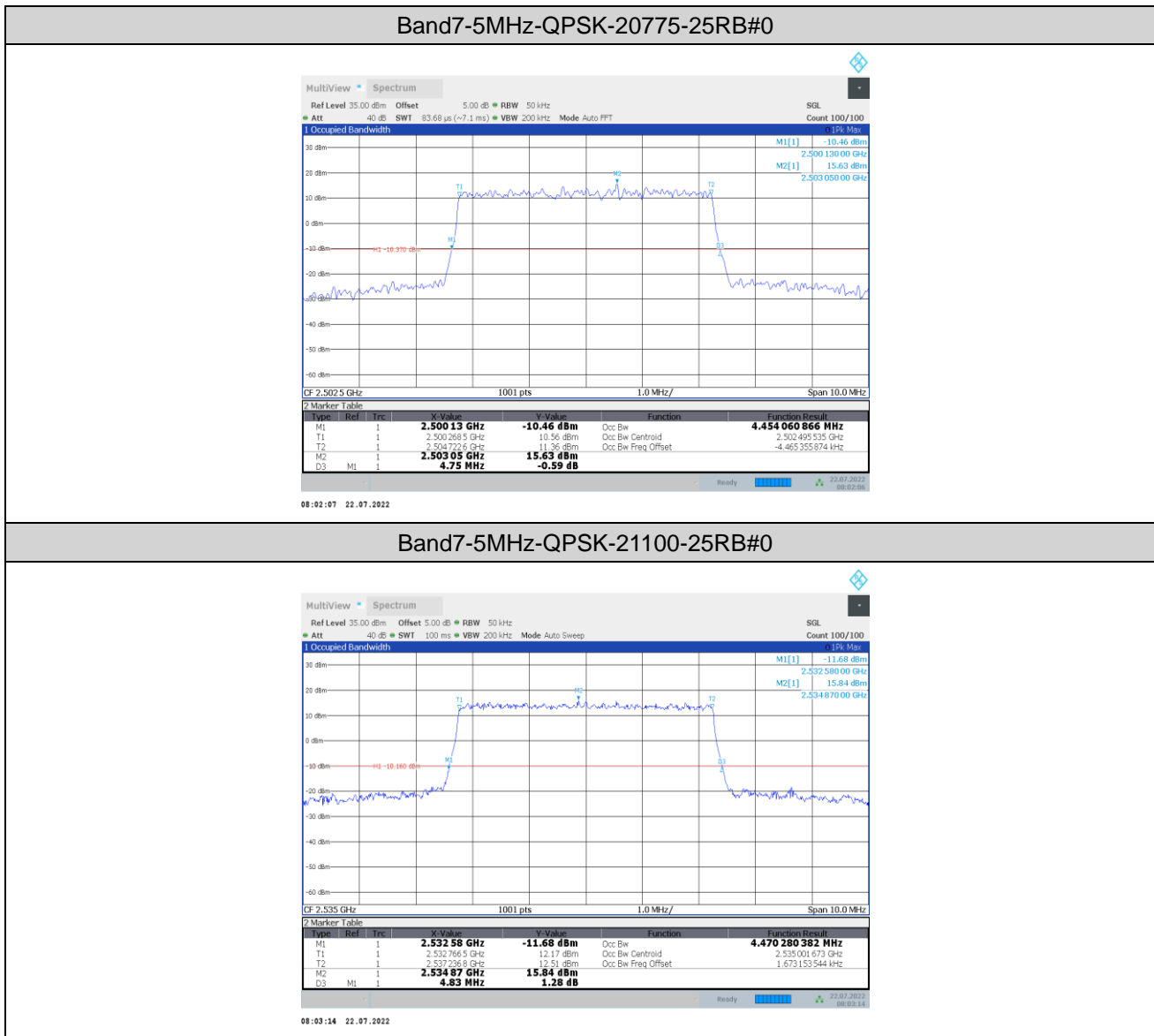
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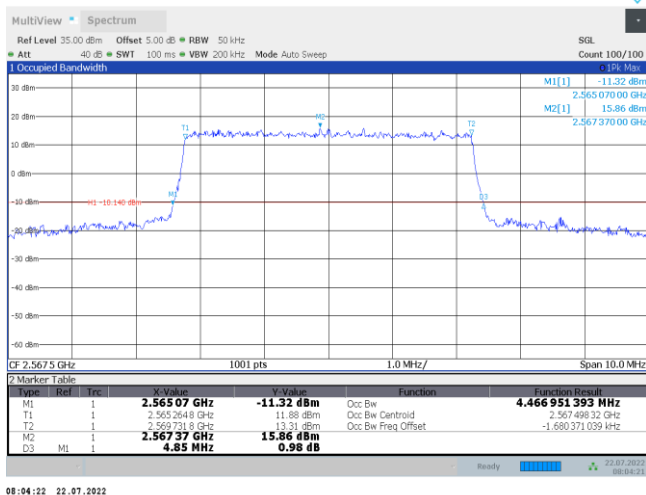


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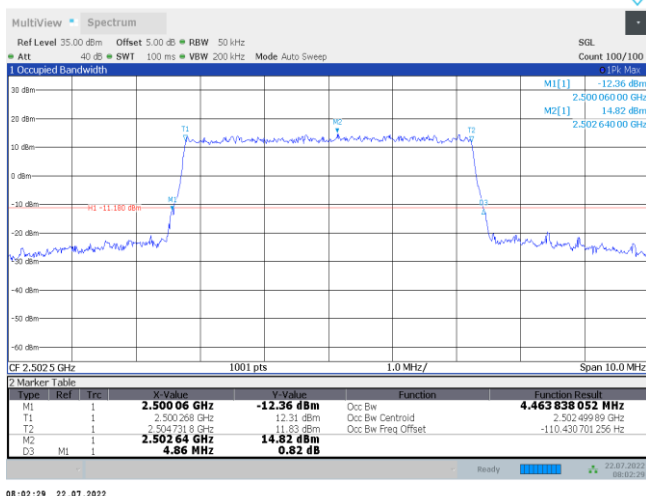
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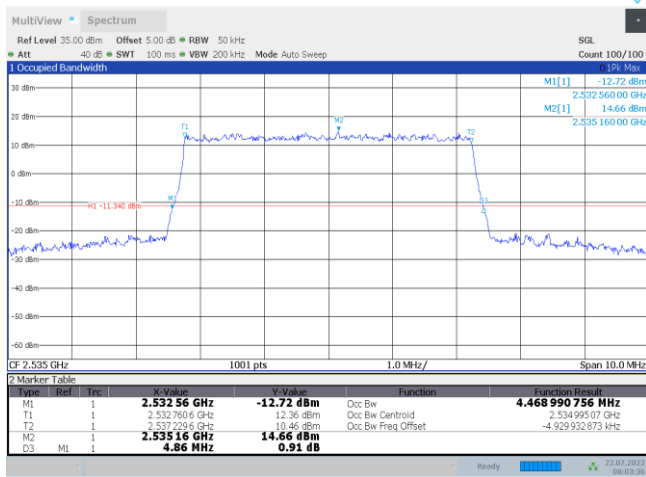


Band7-5MHz-16QAM-20775-25RB#0



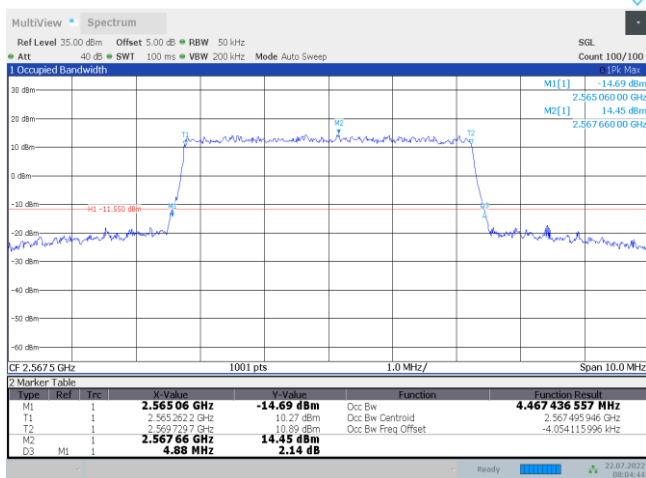
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Band7-5MHz-16QAM-21100-25RB#0



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

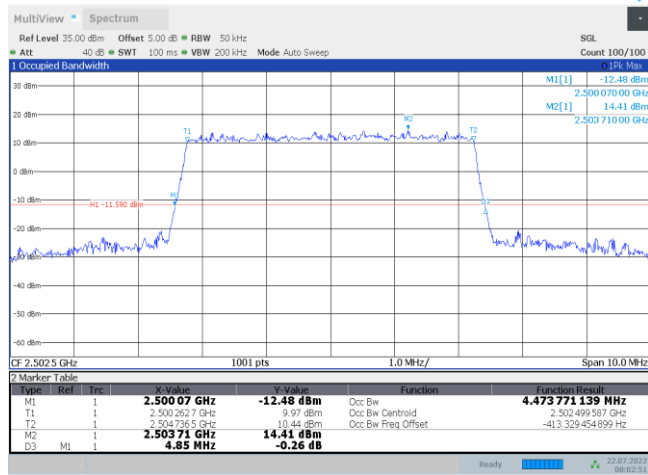


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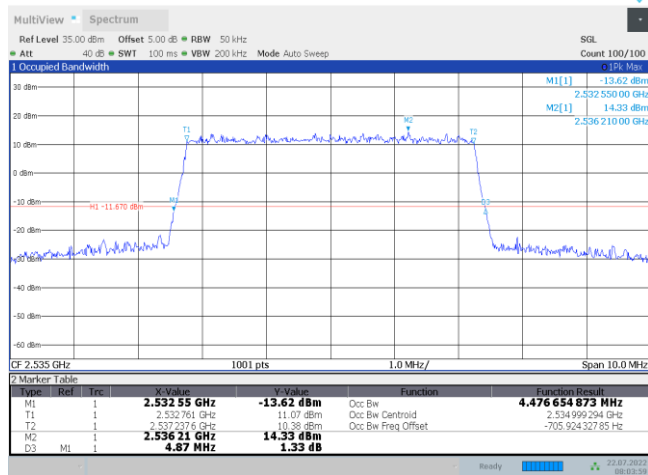
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Band7-5MHz-64QAM-20775-25RB#0



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



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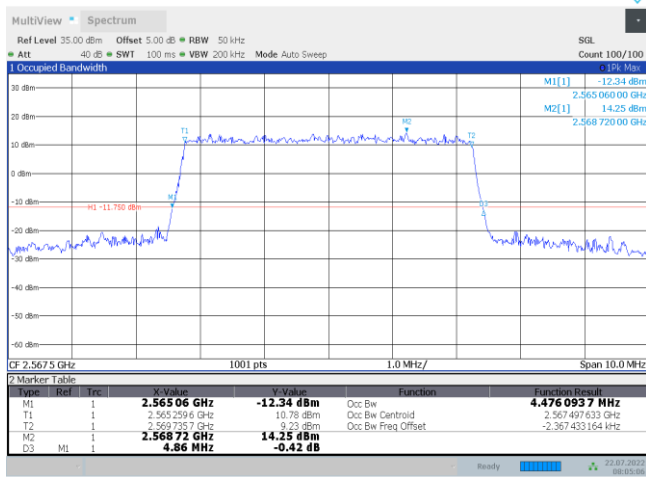


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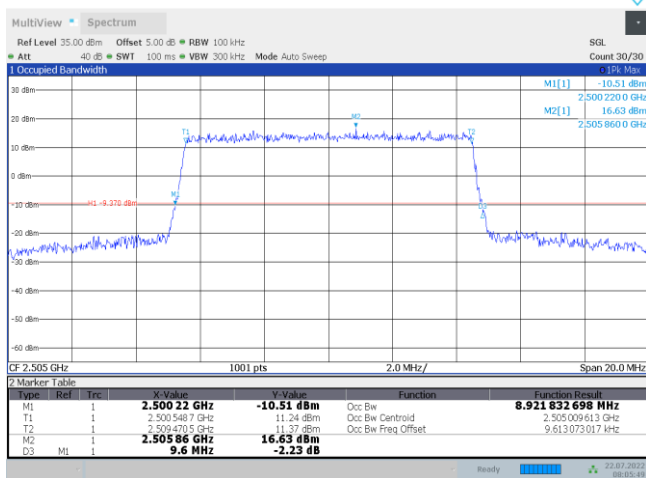
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Band7-5MHz-64QAM-21425-25RB#0



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

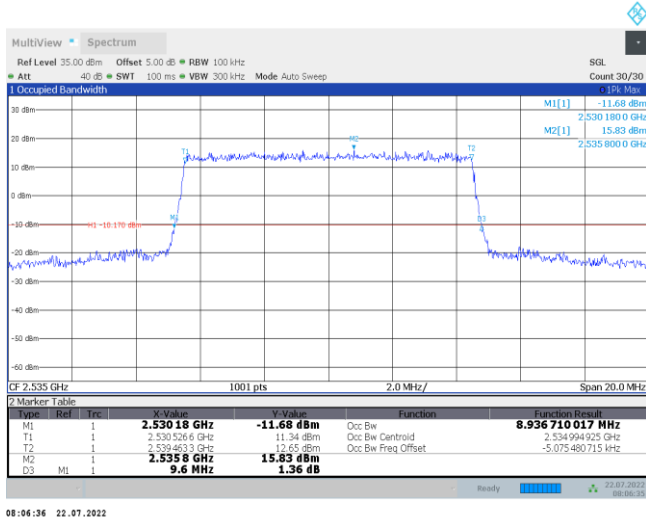


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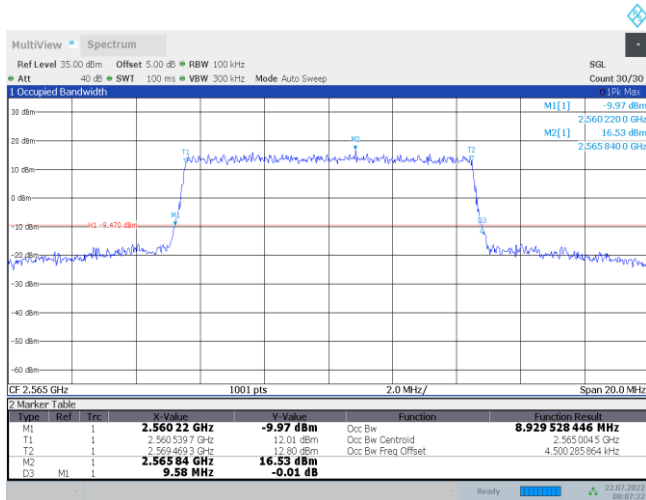
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Band7-10MHz-QPSK-21100-50RB#0



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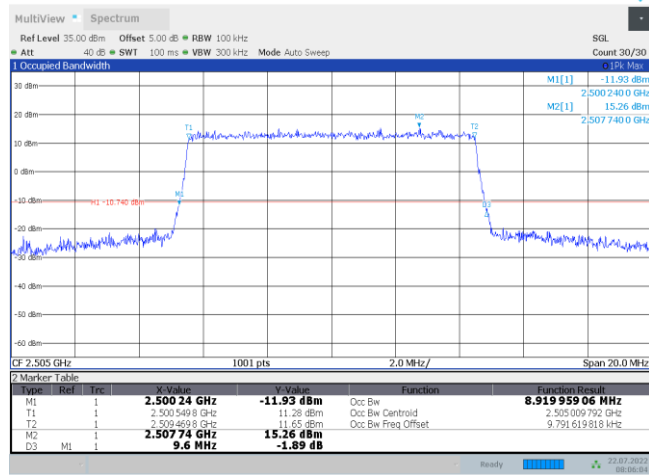


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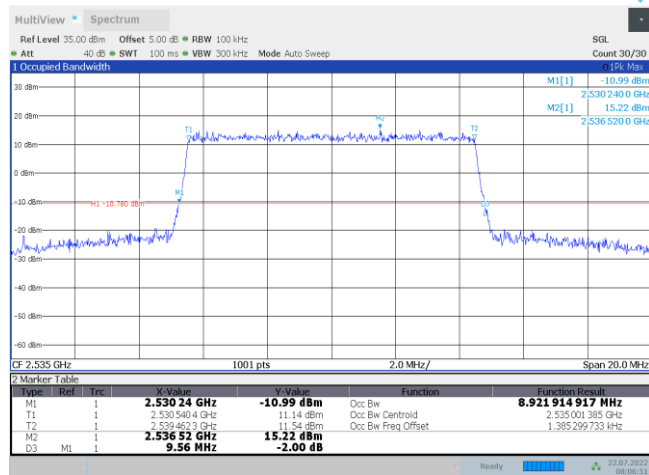
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Band7-10MHz-16QAM-20800-50RB#0



08:06:05 22.07.2022

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



08:06:51 22.07.2022



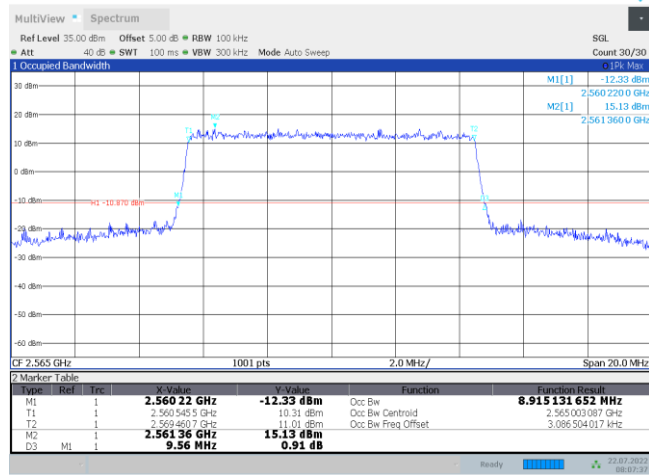
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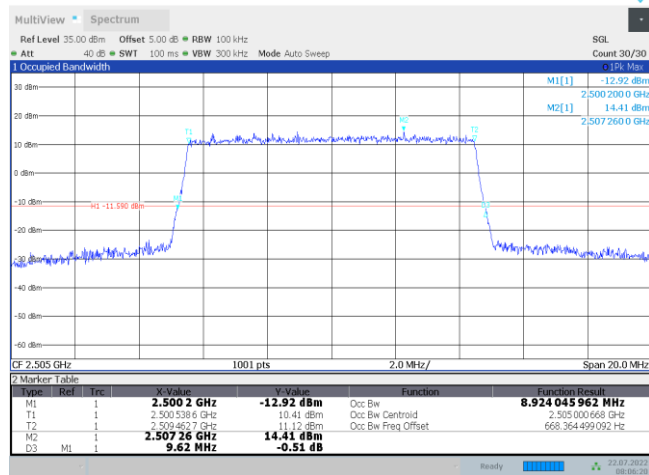
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Band7-10MHz-16QAM-21400-50RB#0



08:07:38 22.07.2022

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



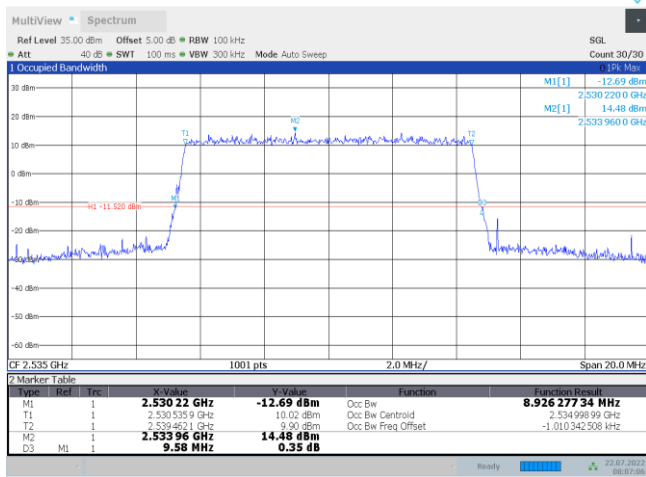
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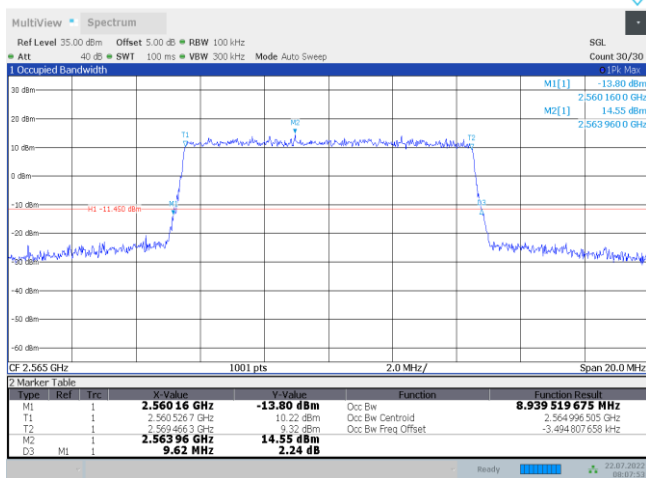
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Band7-10MHz-64QAM-21100-50RB#0



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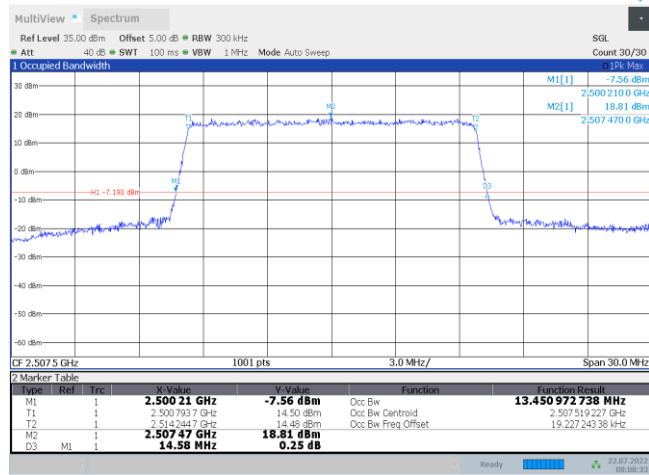


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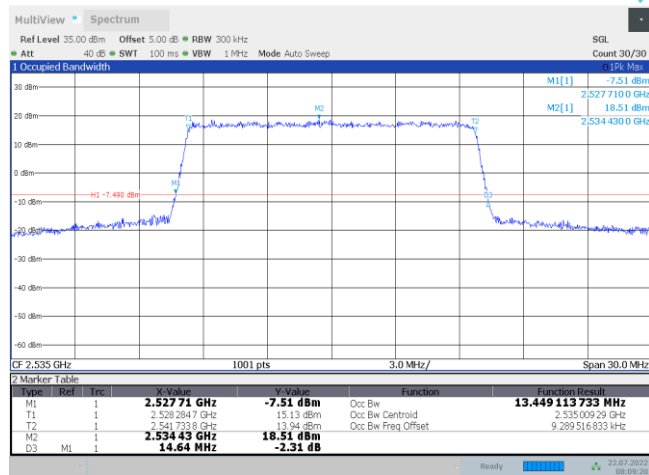
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Band7-15MHz-QPSK-20825-75RB#0



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



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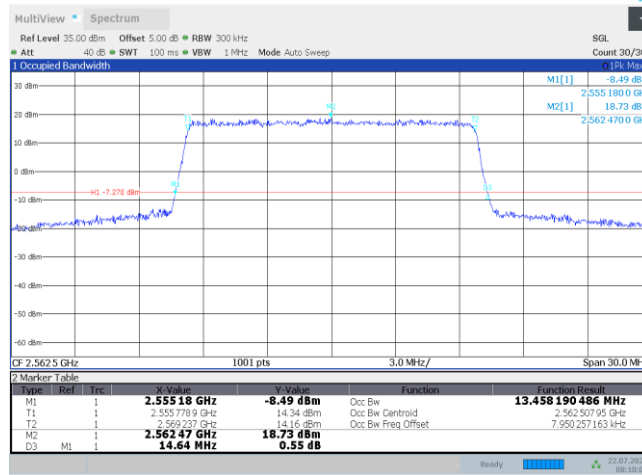
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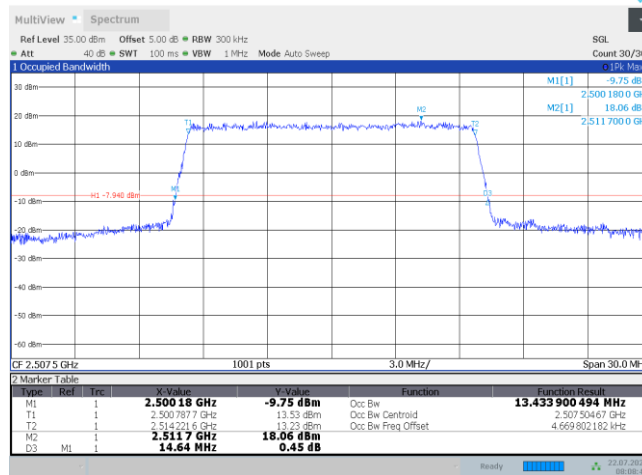
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Band7-15MHz-QPSK-21375-75RB#0



08:10:08 22.07.2022

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



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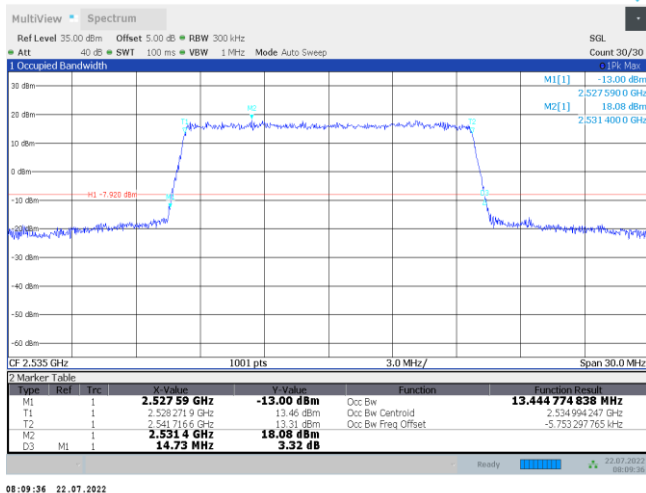


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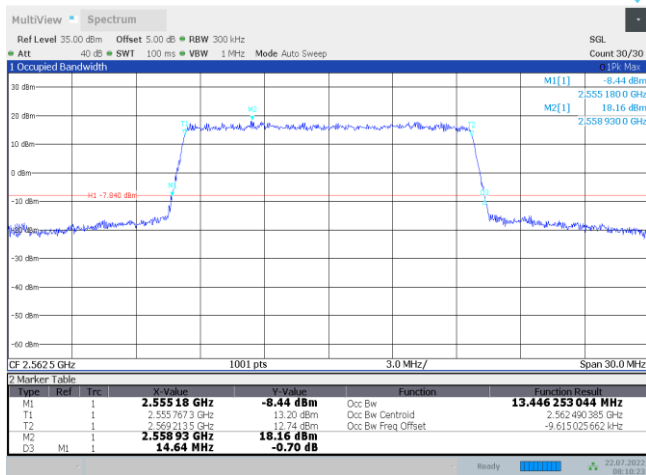
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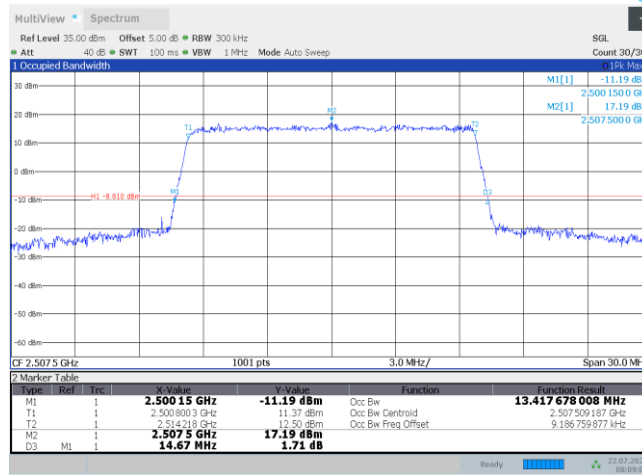


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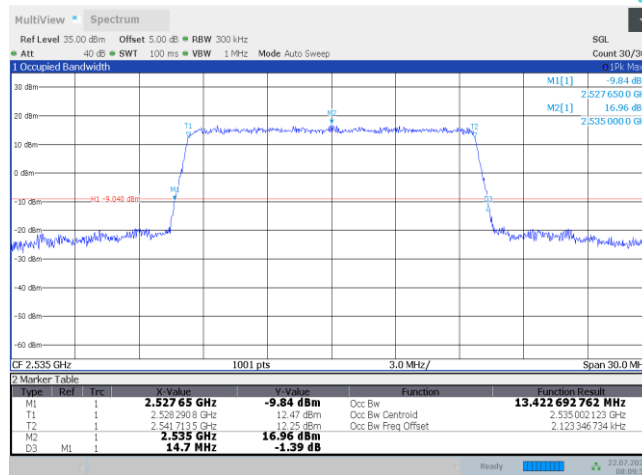
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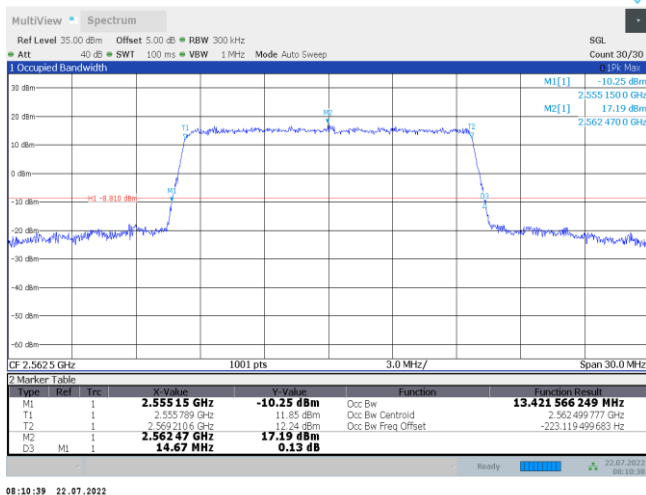
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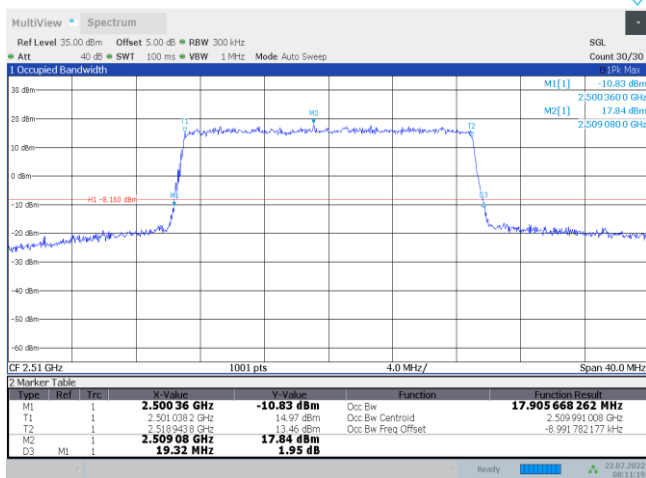
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Band7-15MHz-64QAM-21375-75RB#0



08:10:39 22.07.2022

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

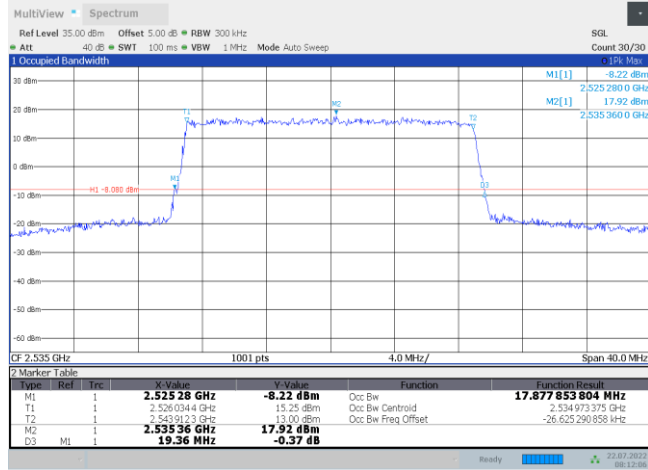


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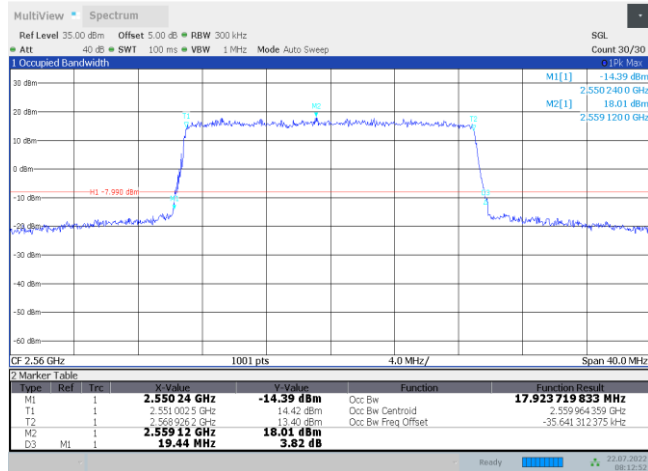
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Band7-20MHz-QPSK-21100-100RB#0



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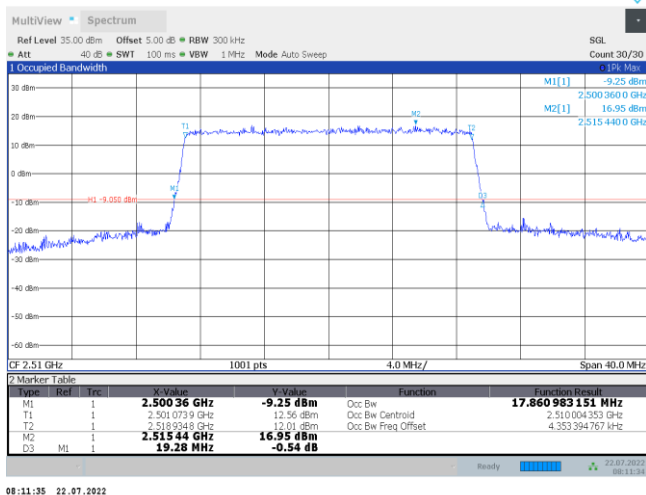


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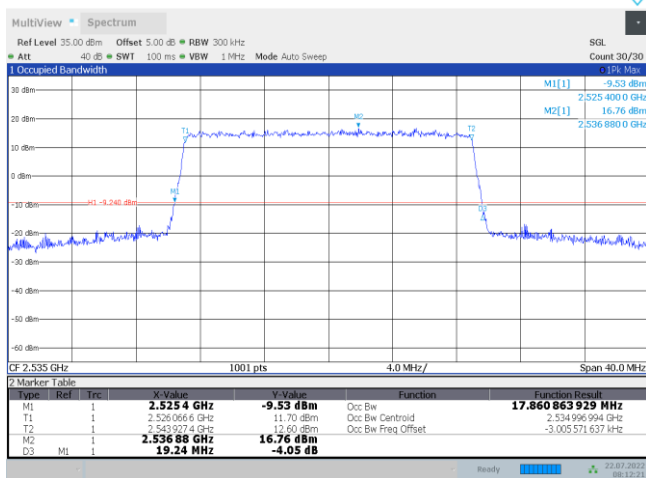
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Band7-20MHz-16QAM-20850-100RB#0



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

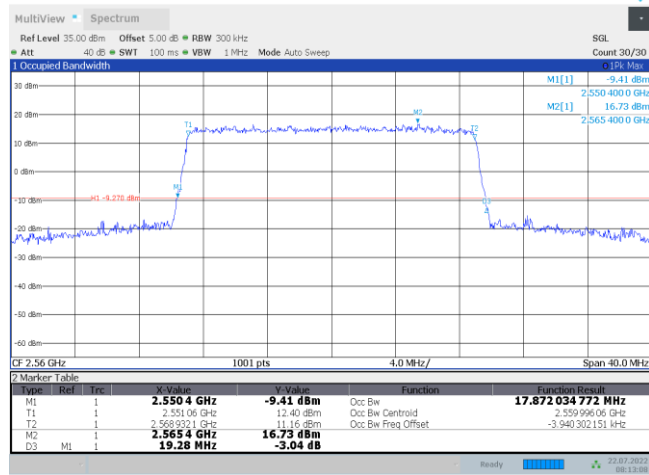


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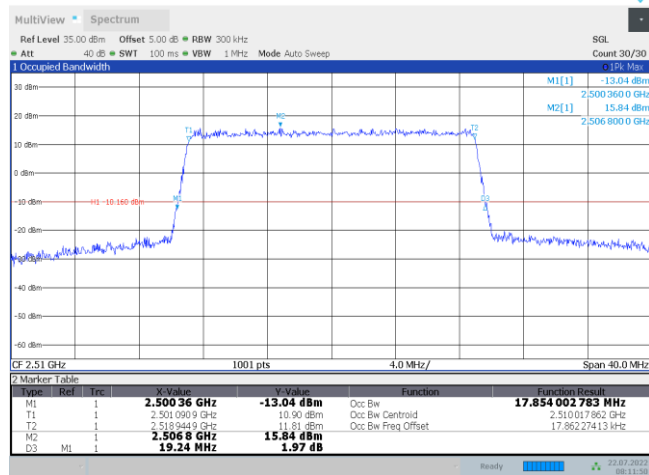
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Band7-20MHz-16QAM-21350-100RB#0



08:13:08 22.07.2022

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



08:11:50 22.07.2022



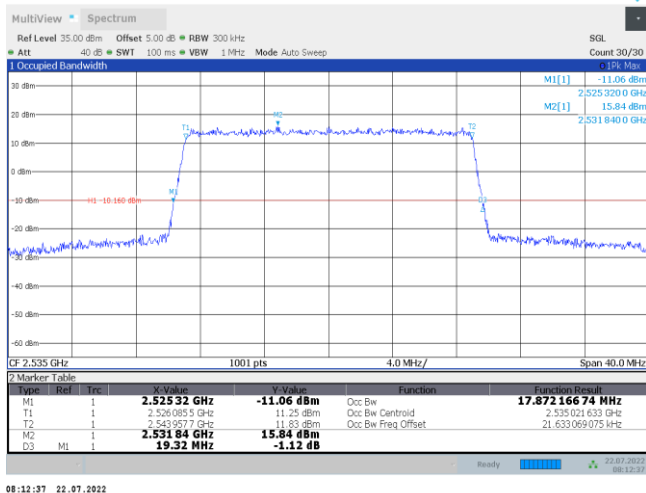
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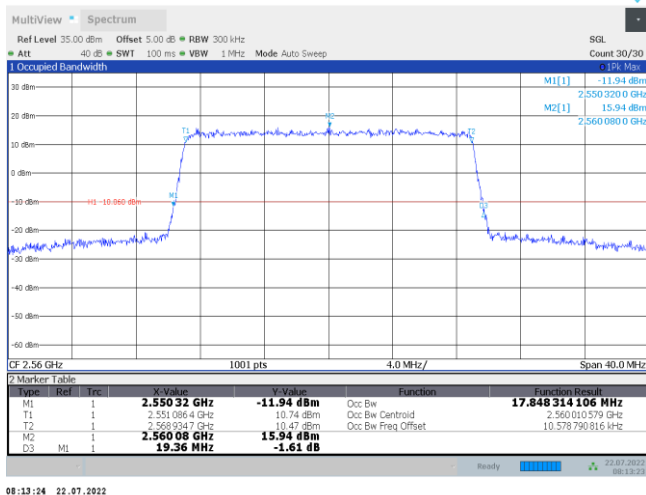
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Band7-20MHz-64QAM-21100-100RB#0



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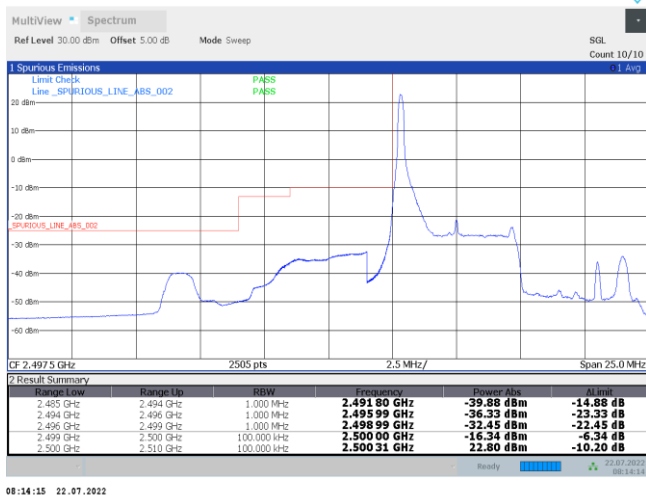
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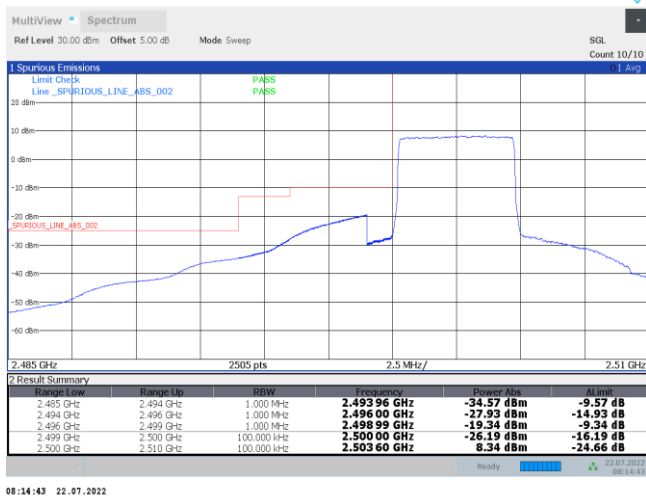
Band Edge

Test Graphs

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



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

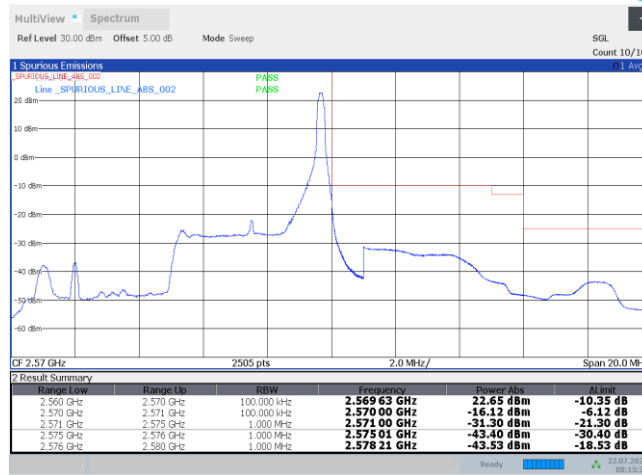


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Band7-5MHz-QPSK-21425-1RB#24



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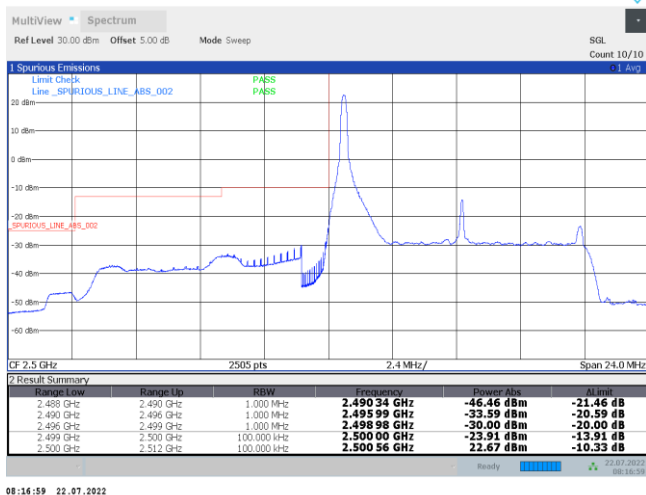


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Band7-10MHz-QPSK-20800-1RB#0



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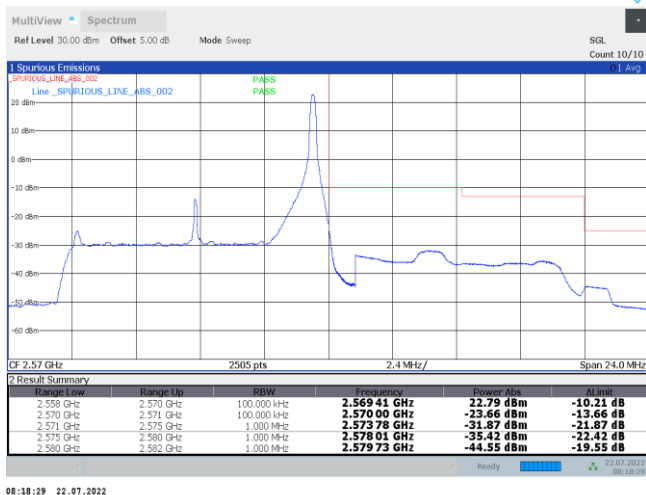


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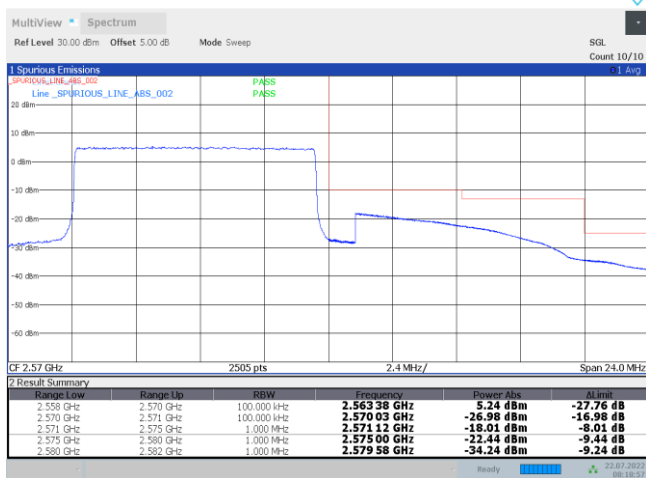
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Band7-10MHz-QPSK-21400-1RB#49



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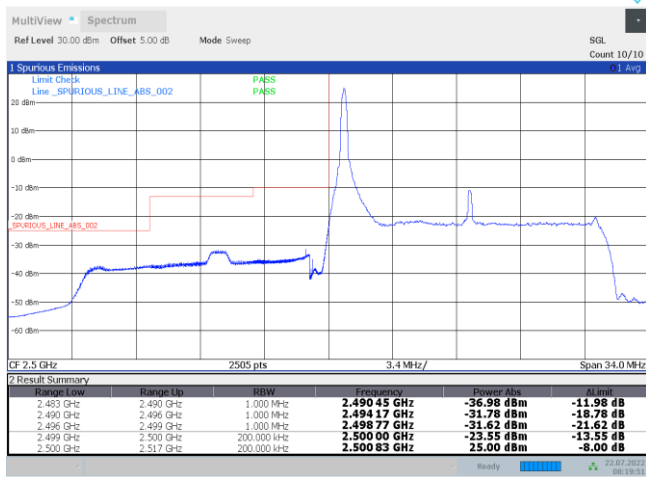
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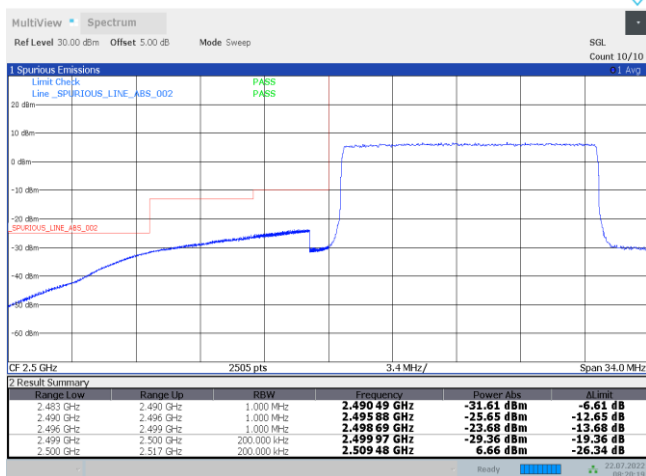
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Band7-15MHz-QPSK-20825-1RB#0



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



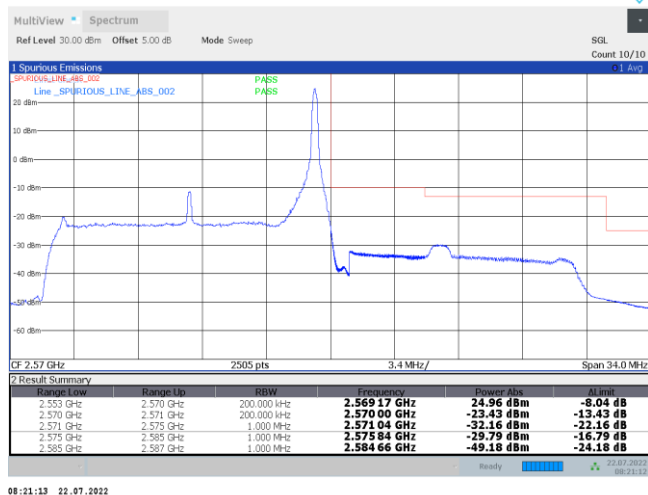
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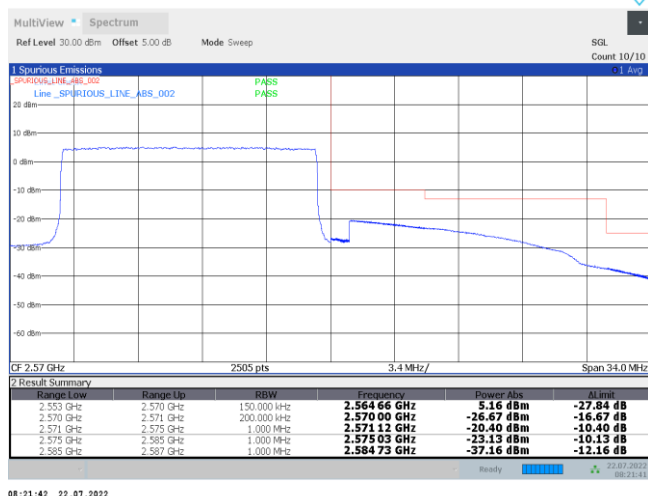
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Band7-15MHz-QPSK-21375-1RB#74



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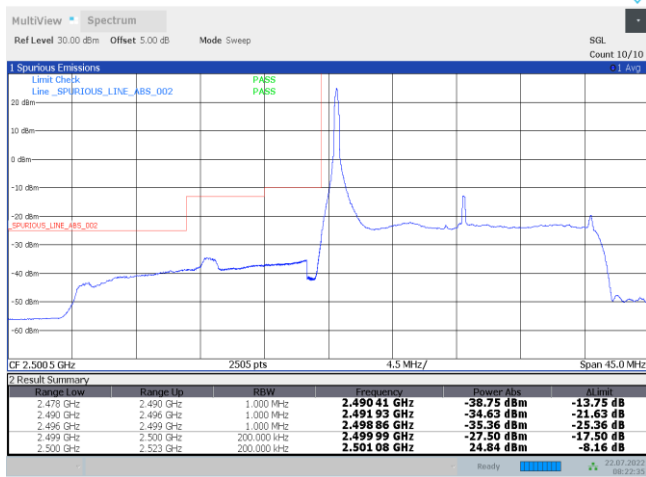


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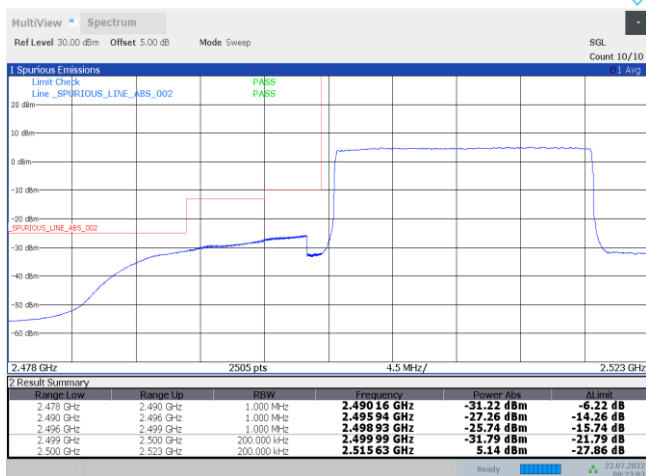
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Band7-20MHz-QPSK-20850-1RB#0



08:22:35 22.07.2022

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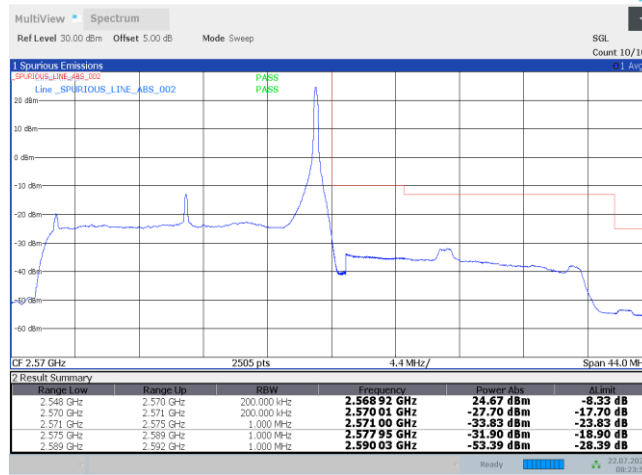


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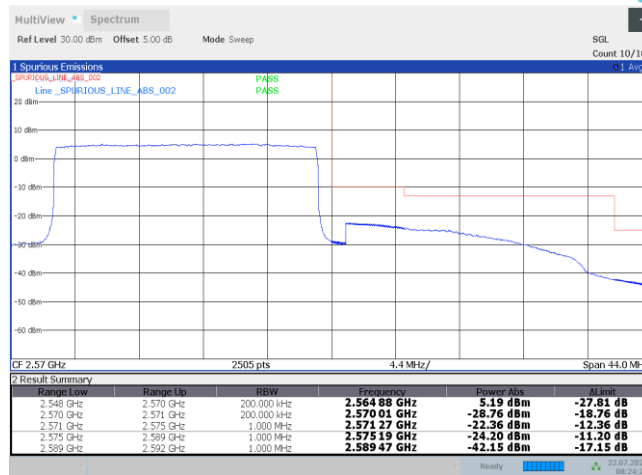
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Band7-20MHz-QPSK-21350-1RB#99



08:23:57 22.07.2022

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



08:24:25 22.07.2022



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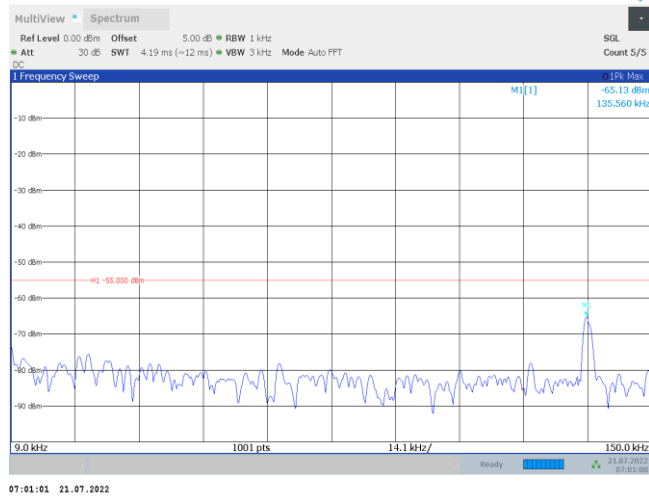
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Conducted Spurious Emission

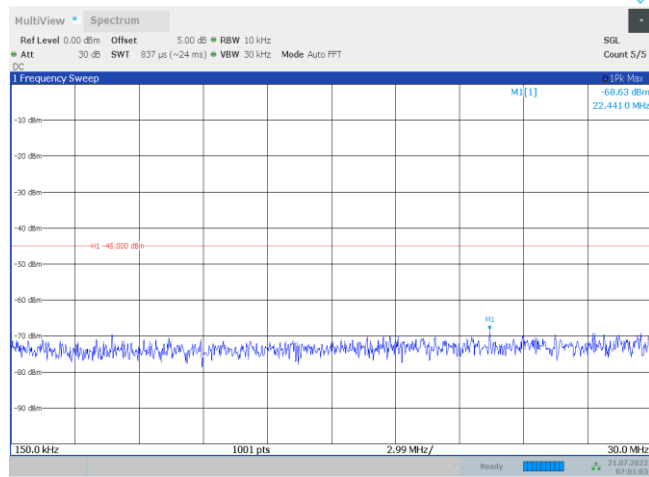
Test Graphs

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



07:01:01 21.07.2022

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



07:01:04 21.07.2022

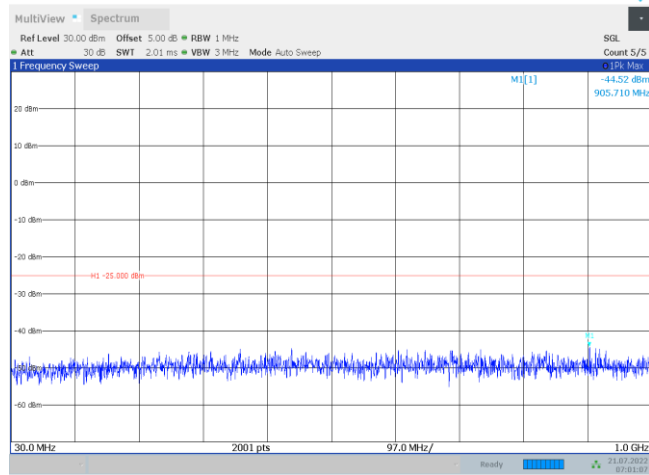


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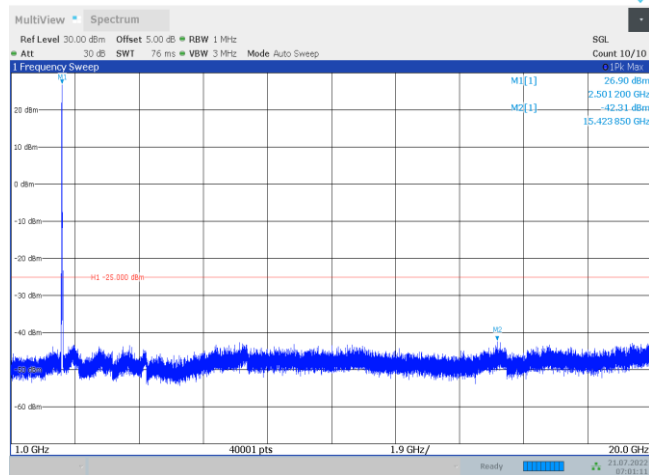
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Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz



07:01:07 21.07.2022

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



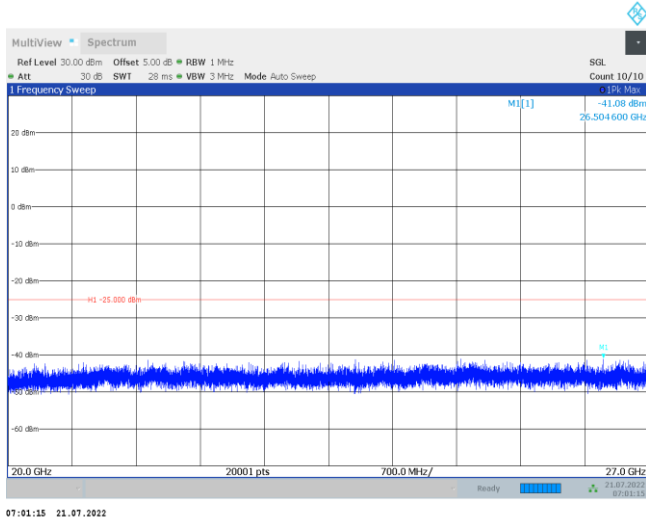
07:01:12 21.07.2022



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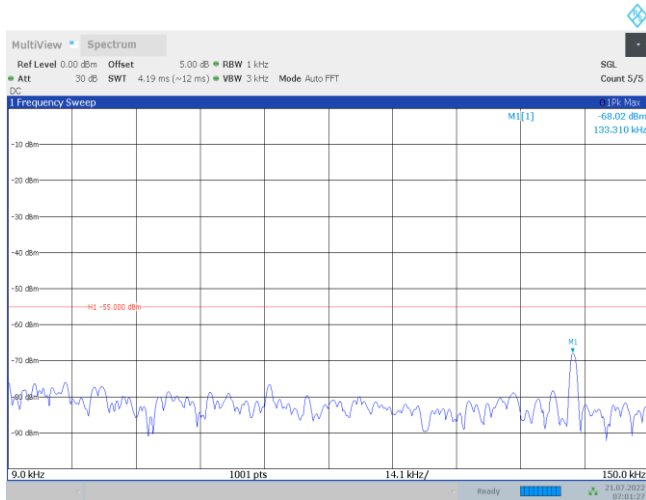
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Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz



07:01:15 21.07.2022

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

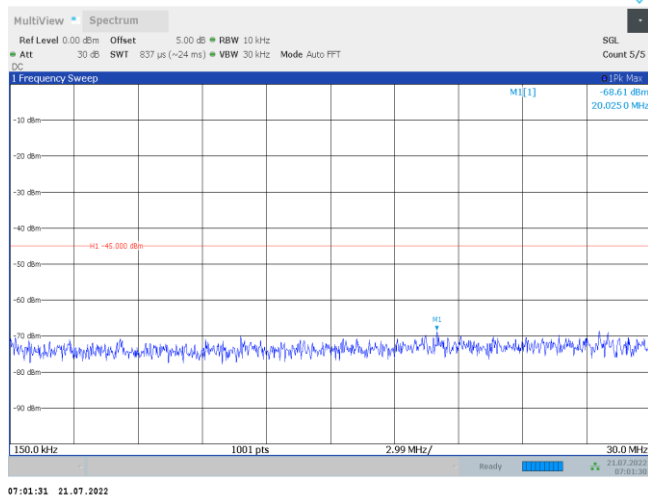


07:01:28 21.07.2022



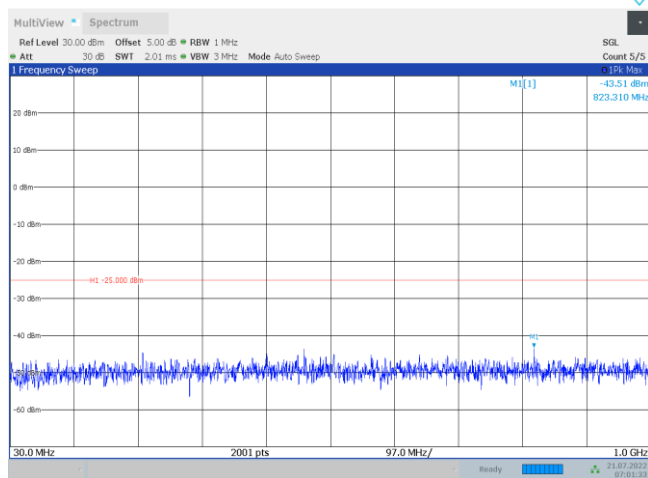
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Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz



07:01:31 21.07.2022

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

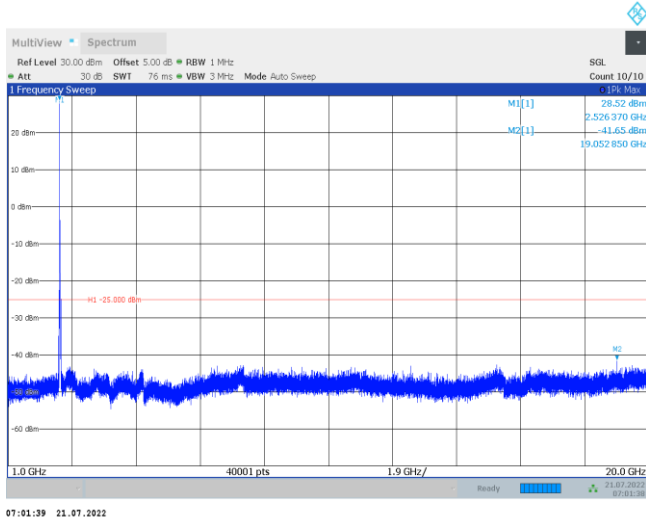


07:01:34 21.07.2022



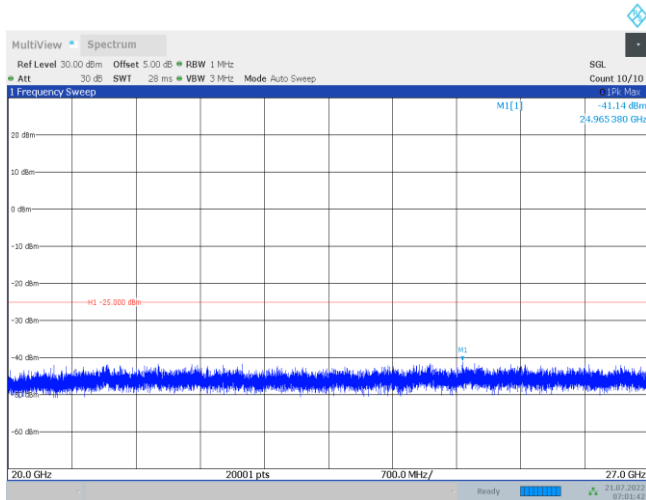
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Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz



07:01:39 21.07.2022

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

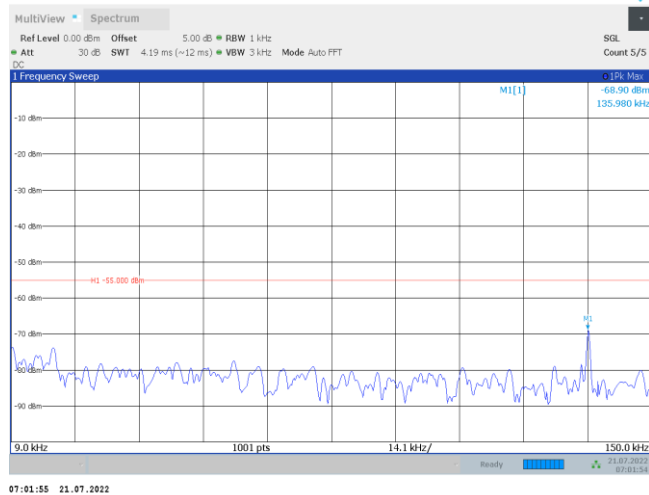


07:01:42 21.07.2022

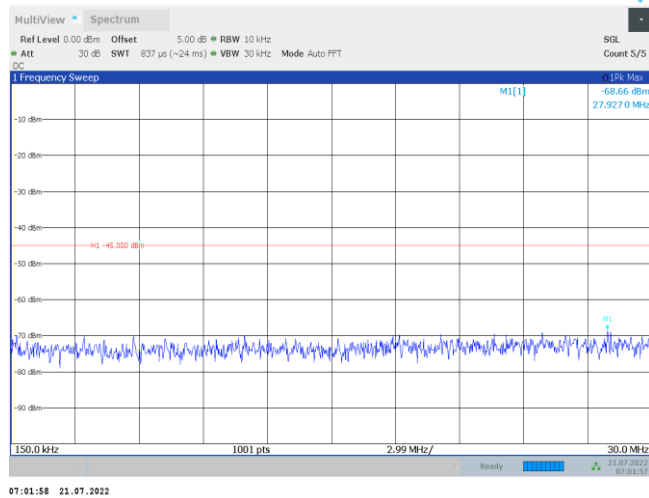


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Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz

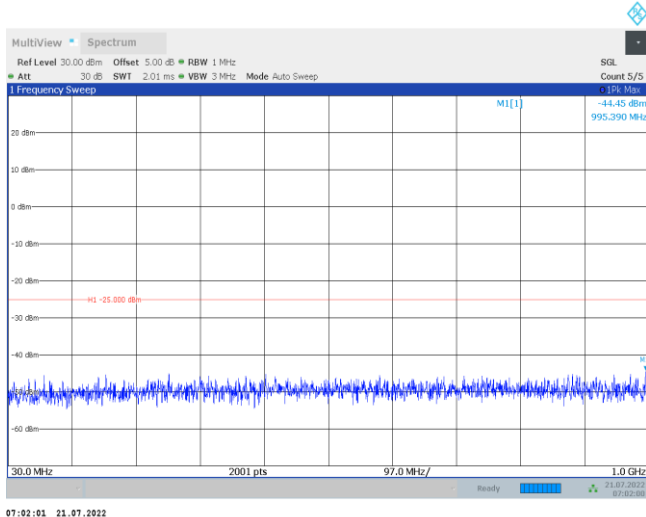


Band7-20MHz-QPSK-21350-1RB#0-Range2:0.15~30MHz



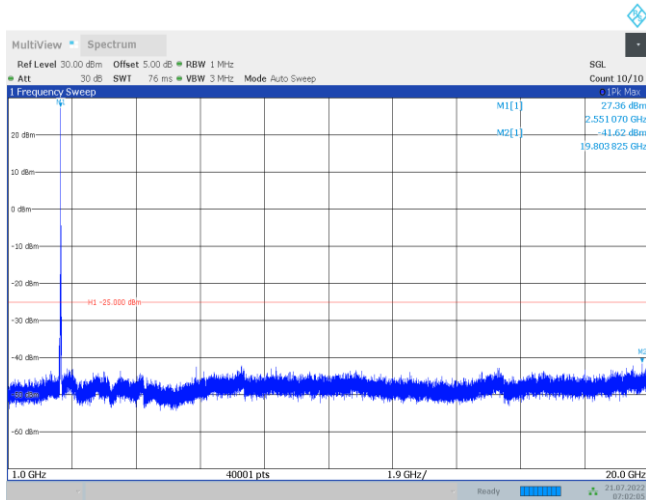
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



07:02:01 21.07.2022

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

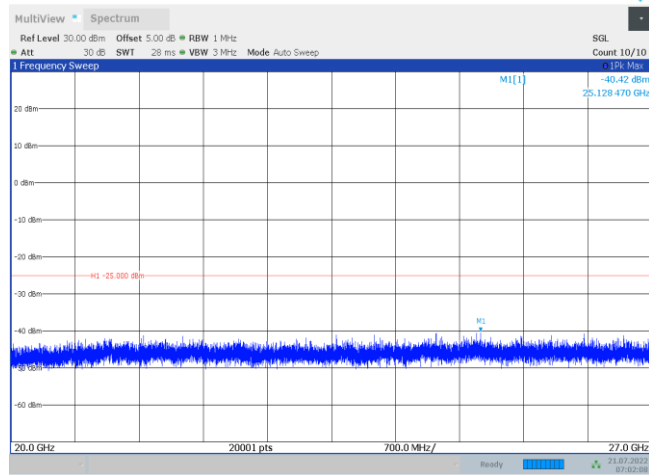


07:02:06 21.07.2022



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



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Field Strength of Spurious Radiation

For Sample #1:

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	47.94	-45.63	32.88	-60.07	-25.00	35.07	211	60	Horizontal
2	7503.2700	46.84	-43.13	36.44	-55.11	-25.00	30.11	236	360	Horizontal
3	10004.3600	41.15	-39.23	38.50	-54.85	-25.00	29.85	214	60	Horizontal
4	12505.4500	38.46	-36.99	39.18	-54.61	-25.00	29.61	178	75	Horizontal
5	15006.5400	35.96	-34.65	39.21	-54.74	-25.00	29.74	191	360	Horizontal
6	17507.6300	38.39	-34.95	39.22	-52.60	-25.00	27.60	255	121	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	49.21	-45.63	32.88	-58.80	-25.00	33.80	214	106	Vertical
2	7503.2700	47.35	-43.13	36.44	-54.60	-25.00	29.60	196	344	Vertical
3	10004.3600	42.06	-39.23	38.50	-53.94	-25.00	28.94	236	121	Vertical
4	12505.4500	38.28	-36.99	39.18	-54.79	-25.00	29.79	261	166	Vertical
5	15006.5400	36.83	-34.65	39.21	-53.87	-25.00	28.87	145	318	Vertical
6	17507.6300	40.05	-34.95	39.22	-50.94	-25.00	25.94	177	121	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	51.61	-45.50	32.91	-56.24	-25.00	31.24	203	314	Horizontal
2	7578.2700	52.43	-42.97	36.40	-49.40	-25.00	24.40	214	3	Horizontal
3	10104.3600	43.87	-39.14	38.66	-51.87	-25.00	26.87	263	43	Horizontal
4	12630.4500	39.71	-37.33	39.33	-53.55	-25.00	28.55	175	117	Horizontal
5	15156.5400	37.32	-34.37	39.01	-53.30	-25.00	28.30	196	163	Horizontal
6	17682.6300	38.97	-33.89	40.06	-50.12	-25.00	25.12	166	148	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	54.90	-45.50	32.91	-52.95	-25.00	27.95	179	46	Vertical
2	7578.2700	49.00	-42.97	36.40	-52.83	-25.00	27.83	191	148	Vertical
3	10104.3600	46.95	-39.14	38.66	-48.79	-25.00	23.79	145	269	Vertical
4	12630.4500	40.37	-37.33	39.33	-52.89	-25.00	27.89	211	252	Vertical
5	15156.5400	35.92	-34.37	39.01	-54.70	-25.00	29.70	126	179	Vertical
6	17682.6300	40.06	-33.89	40.06	-49.03	-25.00	24.03	235	359	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	52.74	-45.37	32.94	-54.95	-25.00	29.95	111	270	Horizontal
2	7653.2700	51.28	-43.03	36.49	-50.52	-25.00	25.52	133	359	Horizontal
3	10204.3600	46.43	-39.48	38.81	-49.50	-25.00	24.50	261	44	Horizontal
4	12755.4500	38.67	-36.76	39.55	-53.80	-25.00	28.80	142	284	Horizontal
5	15306.5400	36.36	-34.36	38.82	-54.44	-25.00	29.44	175	284	Horizontal
6	17857.6300	39.58	-34.56	41.24	-49.00	-25.00	24.00	190	179	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	54.87	-45.37	32.94	-52.82	-25.00	27.82	199	240	Vertical
2	7653.2700	48.13	-43.03	36.49	-53.67	-25.00	28.67	125	359	Vertical
3	10204.3600	53.06	-39.48	38.81	-42.87	-25.00	17.87	125	4	Vertical
4	12755.4500	38.40	-36.76	39.55	-54.07	-25.00	29.07	177	226	Vertical
5	15306.5400	36.77	-34.36	38.82	-54.03	-25.00	29.03	211	226	Vertical
6	17857.6300	39.89	-34.56	41.24	-48.69	-25.00	23.69	190	120	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:

Level = Reading Level(dBμV) + AF(dB/m) + Factor(dB):

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

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)

dBm = dBμV - 95.26



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-1.20	-0.000473	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-11.90	-0.004694	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-4.60	-0.001815	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	0.10	0.000039	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	1.60	0.000631	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-8.70	-0.003432	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	2.90	0.001144	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-8.70	-0.003432	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-5.40	-0.002130	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-9.10	-0.003590	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-5.60	-0.002209	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-4.10	-0.001617	PASS

---End of Attachment---



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 Wireless Laboratory

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