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Appendix B.9

LTE Band 7



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Wireless Laboratory

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Effective (Isotropic) Radiated Power Output Data**Test Result****Ant1:**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	22.75	25.15	33	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.67	25.07	33	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.74	25.14	33	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.66	24.06	33	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.21	25.61	33	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.02	25.42	33	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.91	25.31	33	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.01	24.41	33	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.41	25.81	33	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.86	25.26	33	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.81	25.21	33	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.88	24.28	33	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.44	23.84	33	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.79	24.19	33	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.93	24.33	33	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.62	23.02	33	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.21	24.61	33	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.09	24.49	33	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.13	24.53	33	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.01	23.41	33	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.03	24.43	33	PASS
Band7	5MHz	16QAM	21425	1RB#12	22	24.4	33	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.08	24.48	33	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.82	23.22	33	PASS
Band7	5MHz	64QAM	20775	1RB#0	20.69	23.09	33	PASS
Band7	5MHz	64QAM	20775	1RB#12	20.57	22.97	33	PASS
Band7	5MHz	64QAM	20775	1RB#24	20.94	23.34	33	PASS



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Band7	5MHz	64QAM	20775	25RB#0	19.57	21.97	33	PASS
Band7	5MHz	64QAM	21100	1RB#0	21.04	23.44	33	PASS
Band7	5MHz	64QAM	21100	1RB#12	21.12	23.52	33	PASS
Band7	5MHz	64QAM	21100	1RB#24	21.17	23.57	33	PASS
Band7	5MHz	64QAM	21100	25RB#0	20.06	22.46	33	PASS
Band7	5MHz	64QAM	21425	1RB#0	20.9	23.3	33	PASS
Band7	5MHz	64QAM	21425	1RB#12	21.05	23.45	33	PASS
Band7	5MHz	64QAM	21425	1RB#24	21.03	23.43	33	PASS
Band7	5MHz	64QAM	21425	25RB#0	19.79	22.19	33	PASS
Band7	5MHz	256QAM	20775	1RB#0	17.91	20.31	33	PASS
Band7	5MHz	256QAM	20775	1RB#12	17.62	20.02	33	PASS
Band7	5MHz	256QAM	20775	1RB#24	18.06	20.46	33	PASS
Band7	5MHz	256QAM	20775	25RB#0	17.93	20.33	33	PASS
Band7	5MHz	256QAM	21100	1RB#0	17.86	20.26	33	PASS
Band7	5MHz	256QAM	21100	1RB#12	18.02	20.42	33	PASS
Band7	5MHz	256QAM	21100	1RB#24	18.07	20.47	33	PASS
Band7	5MHz	256QAM	21100	25RB#0	18.02	20.42	33	PASS
Band7	5MHz	256QAM	21425	1RB#0	17.87	20.27	33	PASS
Band7	5MHz	256QAM	21425	1RB#12	18.09	20.49	33	PASS
Band7	5MHz	256QAM	21425	1RB#24	17.97	20.37	33	PASS
Band7	5MHz	256QAM	21425	25RB#0	17.74	20.14	33	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.51	24.91	33	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.9	25.3	33	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.97	25.37	33	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.06	24.46	33	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.63	25.03	33	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.01	25.41	33	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.01	25.41	33	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.07	24.47	33	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.96	25.36	33	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.9	25.3	33	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.8	25.2	33	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.95	24.35	33	PASS



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Band7	10MHz	16QAM	20800	1RB#0	21.68	24.08	33	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.16	24.56	33	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.04	24.44	33	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.01	23.41	33	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.16	24.56	33	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.2	24.6	33	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.08	24.48	33	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.03	23.43	33	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.02	24.42	33	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.97	24.37	33	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.86	24.26	33	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.91	23.31	33	PASS
Band7	10MHz	64QAM	20800	1RB#0	20.62	23.02	33	PASS
Band7	10MHz	64QAM	20800	1RB#24	21.26	23.66	33	PASS
Band7	10MHz	64QAM	20800	1RB#49	21.09	23.49	33	PASS
Band7	10MHz	64QAM	20800	50RB#0	20.08	22.48	33	PASS
Band7	10MHz	64QAM	21100	1RB#0	21.16	23.56	33	PASS
Band7	10MHz	64QAM	21100	1RB#24	21.19	23.59	33	PASS
Band7	10MHz	64QAM	21100	1RB#49	21.11	23.51	33	PASS
Band7	10MHz	64QAM	21100	50RB#0	19.99	22.39	33	PASS
Band7	10MHz	64QAM	21400	1RB#0	20.97	23.37	33	PASS
Band7	10MHz	64QAM	21400	1RB#24	21.07	23.47	33	PASS
Band7	10MHz	64QAM	21400	1RB#49	20.91	23.31	33	PASS
Band7	10MHz	64QAM	21400	50RB#0	19.97	22.37	33	PASS
Band7	10MHz	256QAM	20800	1RB#0	17.58	19.98	33	PASS
Band7	10MHz	256QAM	20800	1RB#24	18.17	20.57	33	PASS
Band7	10MHz	256QAM	20800	1RB#49	18.04	20.44	33	PASS
Band7	10MHz	256QAM	20800	50RB#0	18.04	20.44	33	PASS
Band7	10MHz	256QAM	21100	1RB#0	18.04	20.44	33	PASS
Band7	10MHz	256QAM	21100	1RB#24	18.12	20.52	33	PASS
Band7	10MHz	256QAM	21100	1RB#49	18.2	20.6	33	PASS
Band7	10MHz	256QAM	21100	50RB#0	18.12	20.52	33	PASS
Band7	10MHz	256QAM	21400	1RB#0	17.86	20.26	33	PASS



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Band7	10MHz	256QAM	21400	1RB#24	17.98	20.38	33	PASS
Band7	10MHz	256QAM	21400	1RB#49	17.88	20.28	33	PASS
Band7	10MHz	256QAM	21400	50RB#0	17.93	20.33	33	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.46	24.86	33	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.81	25.21	33	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.8	25.2	33	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.91	24.31	33	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.74	25.14	33	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.8	25.2	33	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.73	25.13	33	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.84	24.24	33	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.98	25.38	33	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.71	25.11	33	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.62	25.02	33	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.76	24.16	33	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.5	23.9	33	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.39	24.79	33	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.96	24.36	33	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.96	23.36	33	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.01	24.41	33	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.15	24.55	33	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.02	24.42	33	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.87	23.27	33	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.85	24.25	33	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.76	24.16	33	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.77	24.17	33	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.77	23.17	33	PASS
Band7	15MHz	64QAM	20825	1RB#0	20.57	22.97	33	PASS
Band7	15MHz	64QAM	20825	1RB#38	20.93	23.33	33	PASS
Band7	15MHz	64QAM	20825	1RB#74	20.94	23.34	33	PASS
Band7	15MHz	64QAM	20825	75RB#0	19.91	22.31	33	PASS
Band7	15MHz	64QAM	21100	1RB#0	20.92	23.32	33	PASS
Band7	15MHz	64QAM	21100	1RB#38	20.93	23.33	33	PASS



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Band7	15MHz	64QAM	21100	75RB#0	19.9	22.3	33	PASS
Band7	15MHz	64QAM	21375	1RB#0	20.71	23.11	33	PASS
Band7	15MHz	64QAM	21375	1RB#38	20.86	23.26	33	PASS
Band7	15MHz	64QAM	21375	1RB#74	20.82	23.22	33	PASS
Band7	15MHz	64QAM	21375	75RB#0	19.72	22.12	33	PASS
Band7	15MHz	256QAM	20825	1RB#0	17.67	20.07	33	PASS
Band7	15MHz	256QAM	20825	1RB#38	17.92	20.32	33	PASS
Band7	15MHz	256QAM	20825	1RB#74	17.9	20.3	33	PASS
Band7	15MHz	256QAM	20825	75RB#0	17.9	20.3	33	PASS
Band7	15MHz	256QAM	21100	1RB#0	17.87	20.27	33	PASS
Band7	15MHz	256QAM	21100	1RB#38	18.03	20.43	33	PASS
Band7	15MHz	256QAM	21100	1RB#74	18.02	20.42	33	PASS
Band7	15MHz	256QAM	21100	75RB#0	17.89	20.29	33	PASS
Band7	15MHz	256QAM	21375	1RB#0	17.75	20.15	33	PASS
Band7	15MHz	256QAM	21375	1RB#38	17.68	20.08	33	PASS
Band7	15MHz	256QAM	21375	1RB#74	17.81	20.21	33	PASS
Band7	15MHz	256QAM	21375	75RB#0	17.74	20.14	33	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.68	25.08	33	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.79	25.19	33	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.68	25.08	33	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.87	24.27	33	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.54	24.94	33	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.78	25.18	33	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.92	25.32	33	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.91	24.31	33	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.63	25.03	33	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.64	25.04	33	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.73	25.13	33	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.74	24.14	33	PASS
Band7	20MHz	16QAM	20850	1RB#0	21.68	24.08	33	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.95	24.35	33	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.9	24.3	33	PASS



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Band7	20MHz	16QAM	21100	1RB#0	22	24.4	33	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.92	24.32	33	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.01	24.41	33	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.91	23.31	33	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.84	24.24	33	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.78	24.18	33	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.78	24.18	33	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.85	23.25	33	PASS
Band7	20MHz	64QAM	20850	1RB#0	20.54	22.94	33	PASS
Band7	20MHz	64QAM	20850	1RB#49	21.02	23.42	33	PASS
Band7	20MHz	64QAM	20850	1RB#99	20.9	23.3	33	PASS
Band7	20MHz	64QAM	20850	100RB#0	19.92	22.32	33	PASS
Band7	20MHz	64QAM	21100	1RB#0	20.91	23.31	33	PASS
Band7	20MHz	64QAM	21100	1RB#49	20.88	23.28	33	PASS
Band7	20MHz	64QAM	21100	1RB#99	21.03	23.43	33	PASS
Band7	20MHz	64QAM	21100	100RB#0	19.94	22.34	33	PASS
Band7	20MHz	64QAM	21350	1RB#0	20.96	23.36	33	PASS
Band7	20MHz	64QAM	21350	1RB#49	20.83	23.23	33	PASS
Band7	20MHz	64QAM	21350	1RB#99	20.89	23.29	33	PASS
Band7	20MHz	64QAM	21350	100RB#0	19.81	22.21	33	PASS
Band7	20MHz	256QAM	20850	1RB#0	17.61	20.01	33	PASS
Band7	20MHz	256QAM	20850	1RB#49	17.79	20.19	33	PASS
Band7	20MHz	256QAM	20850	1RB#99	18.05	20.45	33	PASS
Band7	20MHz	256QAM	20850	100RB#0	17.88	20.28	33	PASS
Band7	20MHz	256QAM	21100	1RB#0	17.85	20.25	33	PASS
Band7	20MHz	256QAM	21100	1RB#49	17.82	20.22	33	PASS
Band7	20MHz	256QAM	21100	1RB#99	17.92	20.32	33	PASS
Band7	20MHz	256QAM	21100	100RB#0	17.86	20.26	33	PASS
Band7	20MHz	256QAM	21350	1RB#0	17.66	20.06	33	PASS
Band7	20MHz	256QAM	21350	1RB#49	17.92	20.32	33	PASS
Band7	20MHz	256QAM	21350	1RB#99	17.71	20.11	33	PASS
Band7	20MHz	256QAM	21350	100RB#0	17.78	20.18	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	5.48	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.18	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.16	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.26	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.14	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.54	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.64	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.58	13	PASS
Band7	20MHz	256QAM	20850	100RB#0	6.80	13	PASS
Band7	20MHz	256QAM	21100	100RB#0	6.86	13	PASS
Band7	20MHz	256QAM	21350	100RB#0	6.76	13	PASS



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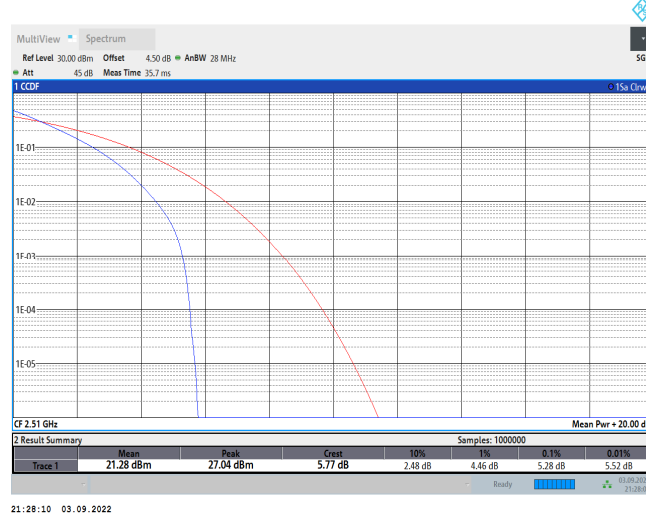
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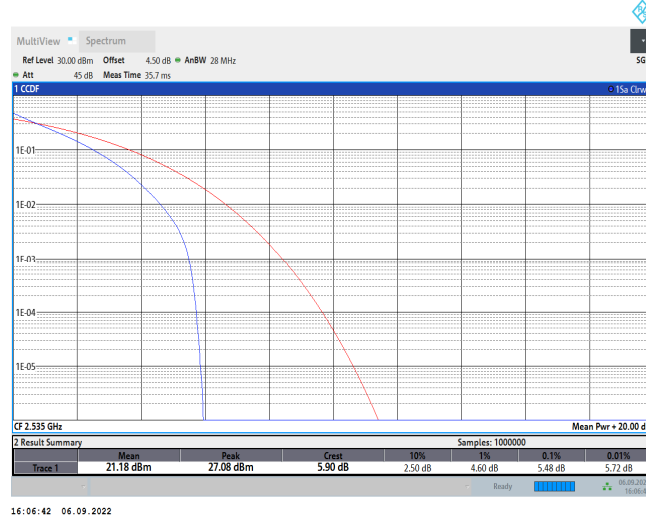
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Test Graphs

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



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



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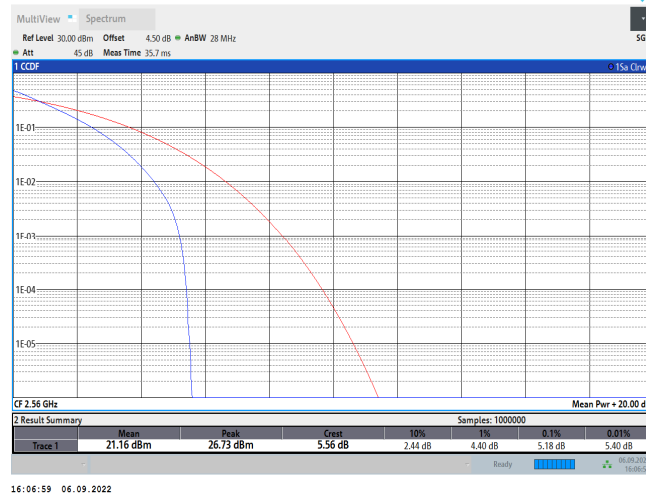
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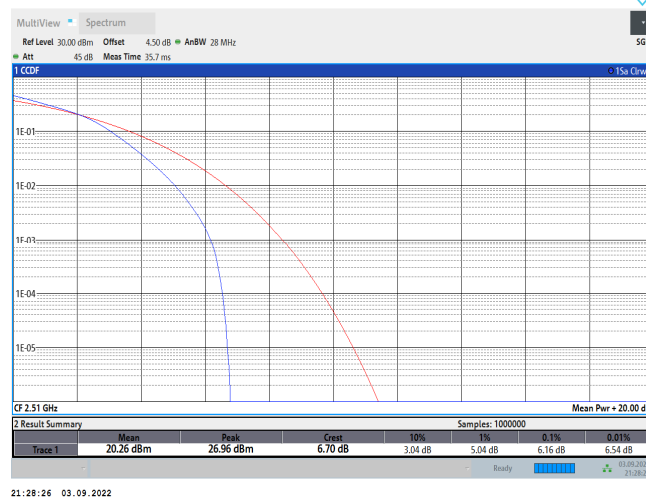
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Band7-20MHz-QPSK-21350-100RB#0



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



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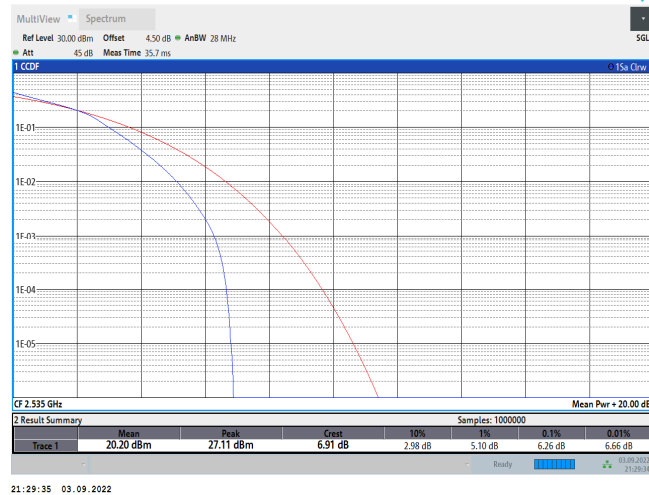
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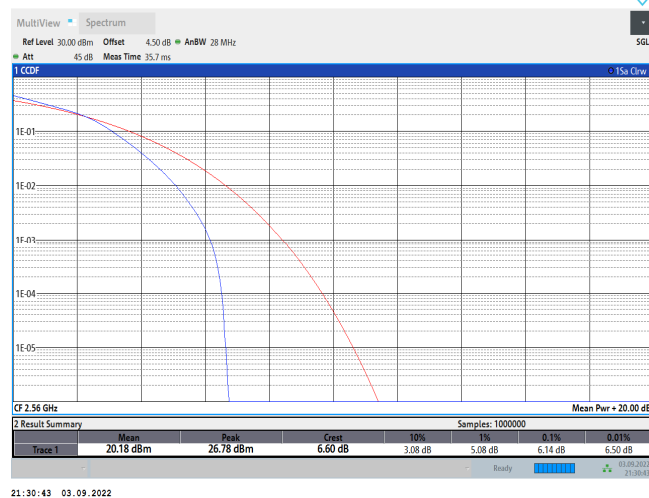
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Band7-20MHz-16QAM-21100-100RB#0



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



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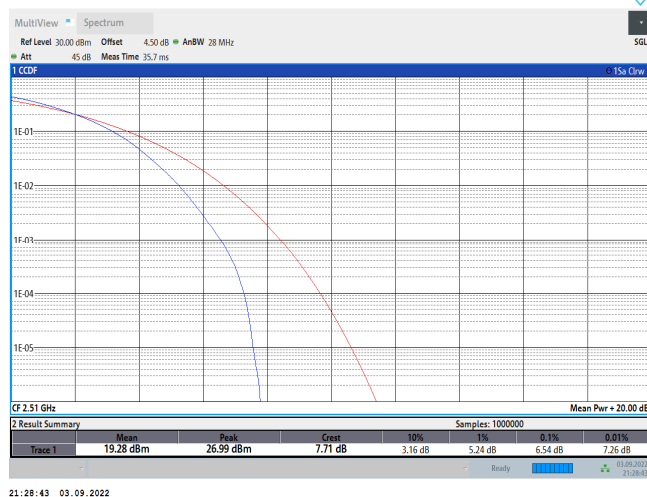
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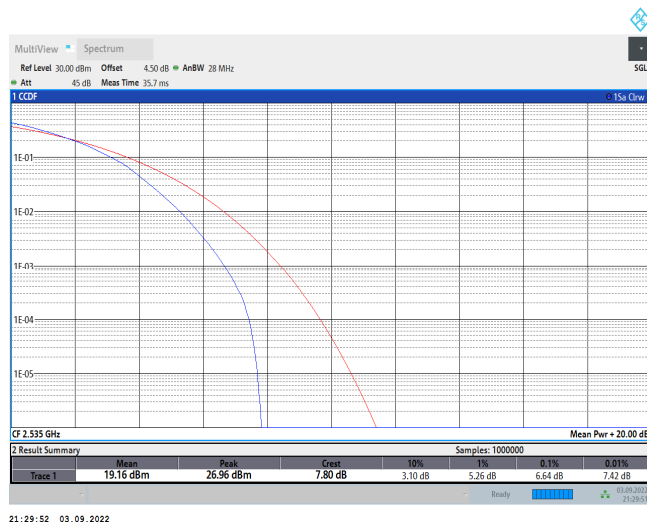
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Band7-20MHz-64QAM-20850-100RB#0



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



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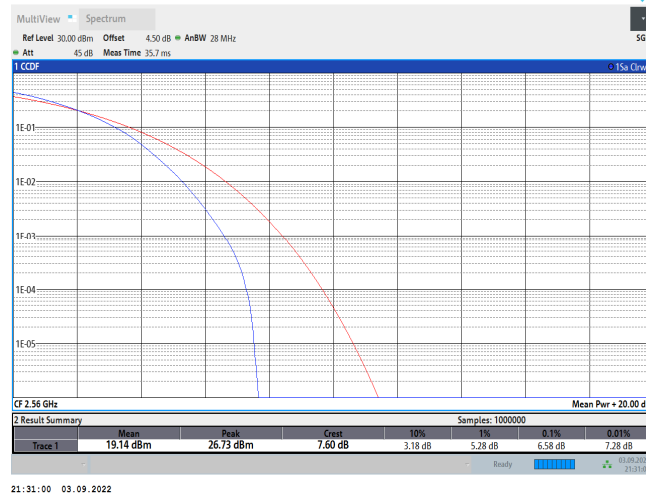
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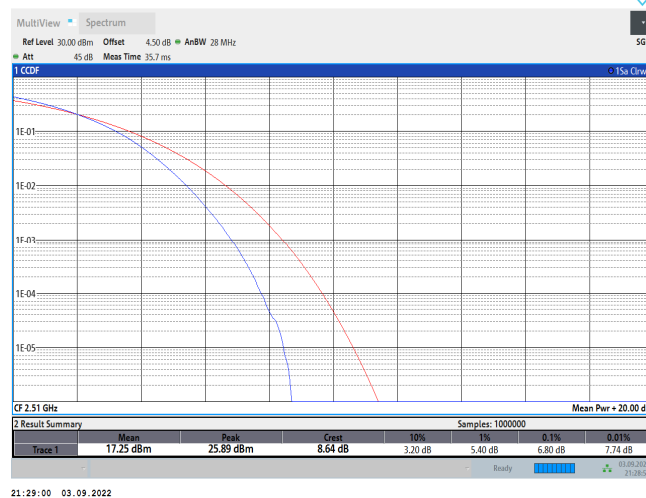
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Band7-20MHz-64QAM-21350-100RB#0



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



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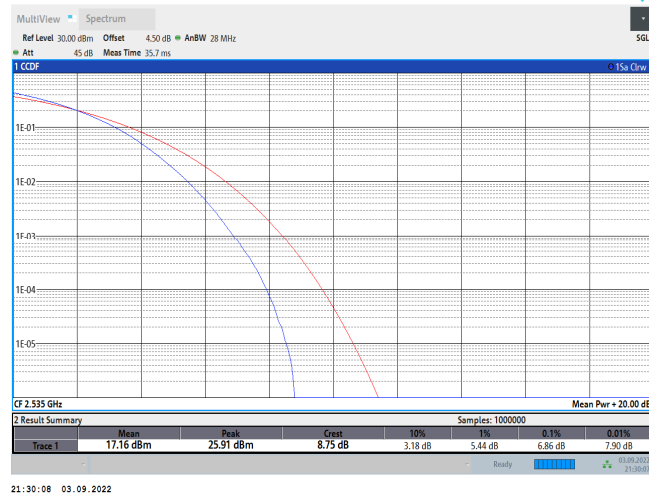
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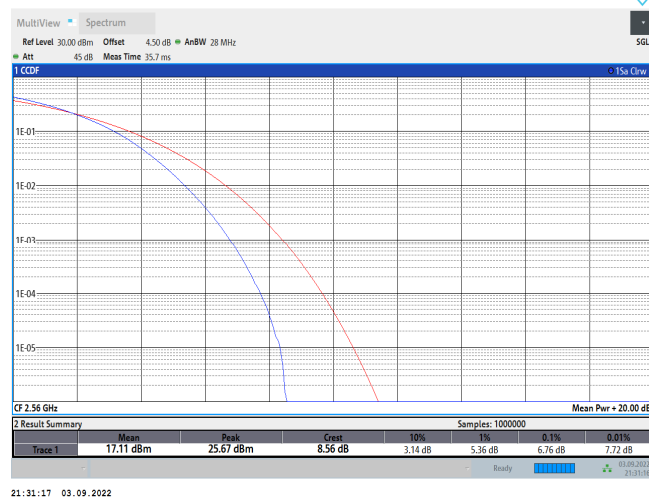
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Band7-20MHz-256QAM-21100-100RB#0



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



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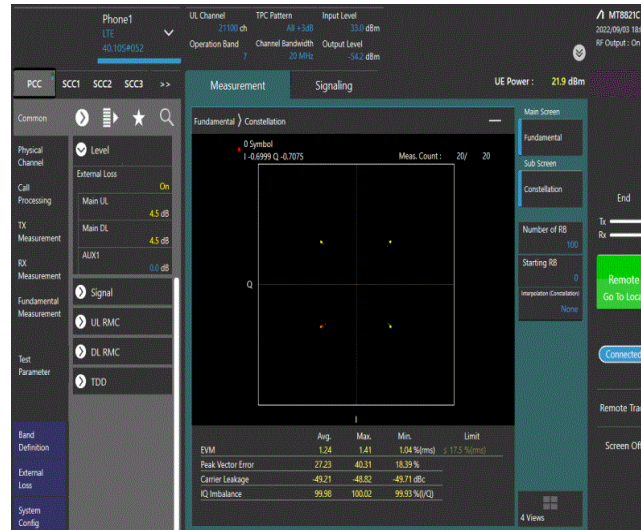
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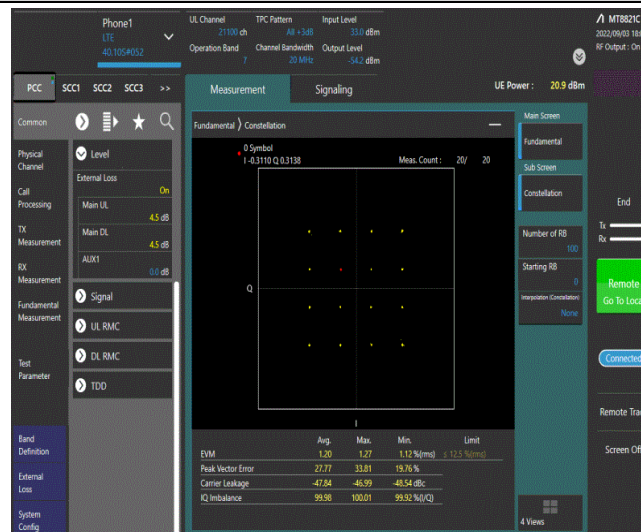
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Test Graphs

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



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

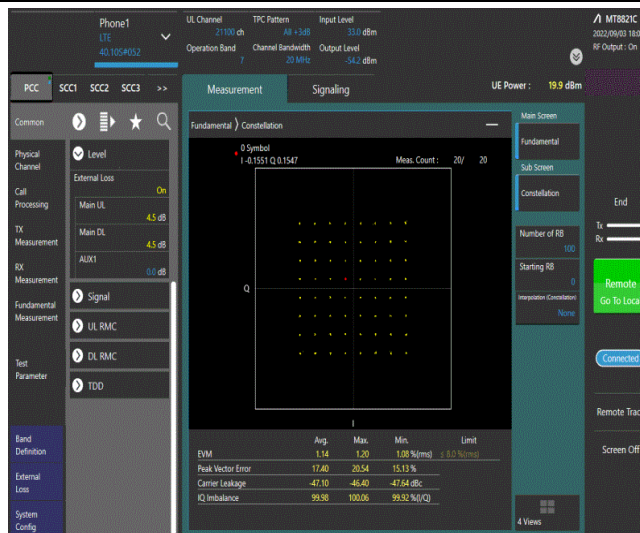


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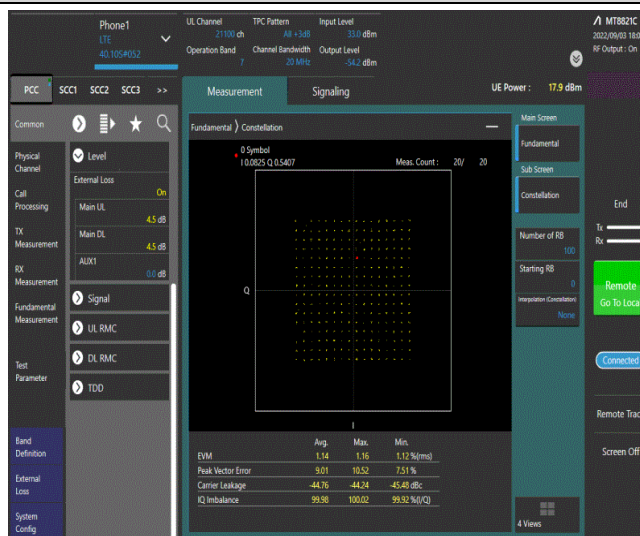
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Band7-20MHz-64QAM-21100-100RB#0



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



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.484	5.06	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.475	5.07	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.479	4.97	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.479	5.12	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.476	4.94	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.476	5.06	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.475	5.02	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.477	5.03	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.475	5.01	PASS
Band7	5MHz	256QAM	20775	25RB#0	4.48	5.00	PASS
Band7	5MHz	256QAM	21100	25RB#0	4.475	5.06	PASS
Band7	5MHz	256QAM	21425	25RB#0	4.476	5.09	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.934	9.88	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.957	9.84	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.932	9.90	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.959	10.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.952	9.88	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.939	9.76	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.947	9.76	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.935	9.82	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.927	9.78	PASS
Band7	10MHz	256QAM	20800	50RB#0	8.947	9.86	PASS
Band7	10MHz	256QAM	21100	50RB#0	8.927	9.82	PASS
Band7	10MHz	256QAM	21400	50RB#0	8.938	9.76	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.471	14.91	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.489	14.88	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.459	14.97	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.484	14.88	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.484	15.00	PASS



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Band7	15MHz	16QAM	21375	75RB#0	13.447	14.85	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.48	14.91	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.476	15.03	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.436	14.85	PASS
Band7	15MHz	256QAM	20825	75RB#0	13.479	14.79	PASS
Band7	15MHz	256QAM	21100	75RB#0	13.497	15.09	PASS
Band7	15MHz	256QAM	21375	75RB#0	13.435	14.82	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.871	19.68	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.925	19.64	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.872	19.52	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.894	19.72	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.926	19.72	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.866	19.72	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.903	19.52	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.933	19.72	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.823	19.40	PASS
Band7	20MHz	256QAM	20850	100RB#0	17.894	19.52	PASS
Band7	20MHz	256QAM	21100	100RB#0	17.939	19.64	PASS
Band7	20MHz	256QAM	21350	100RB#0	17.862	19.60	PASS



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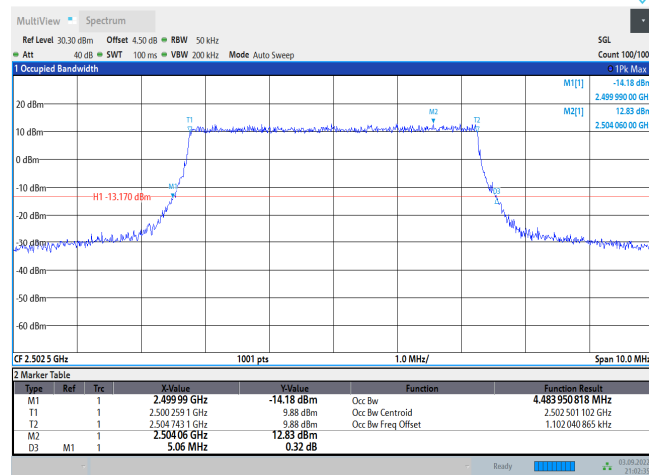
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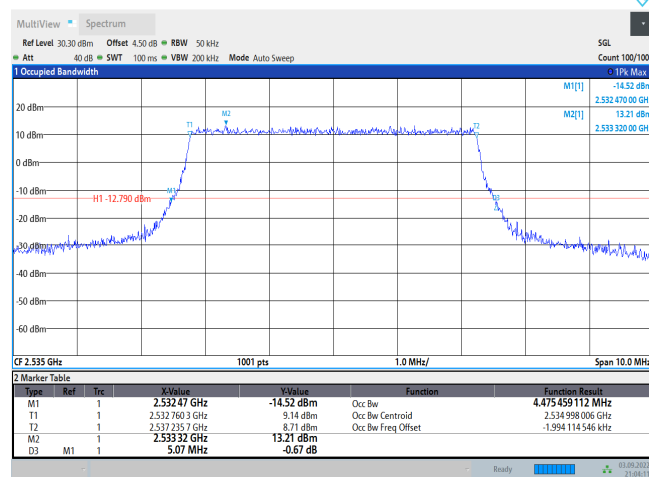
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Test Graphs

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



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

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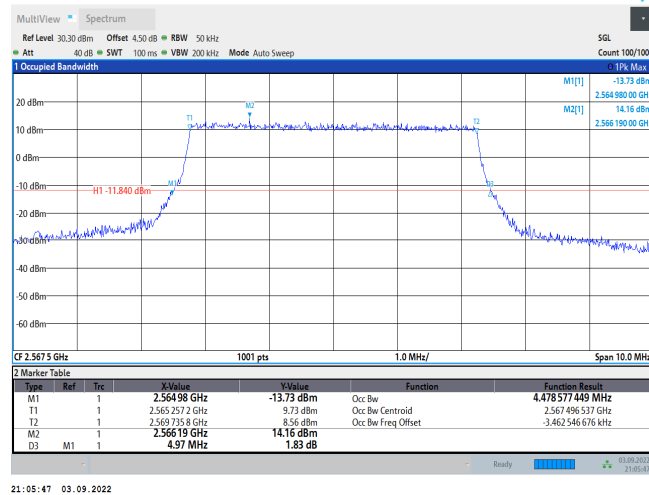
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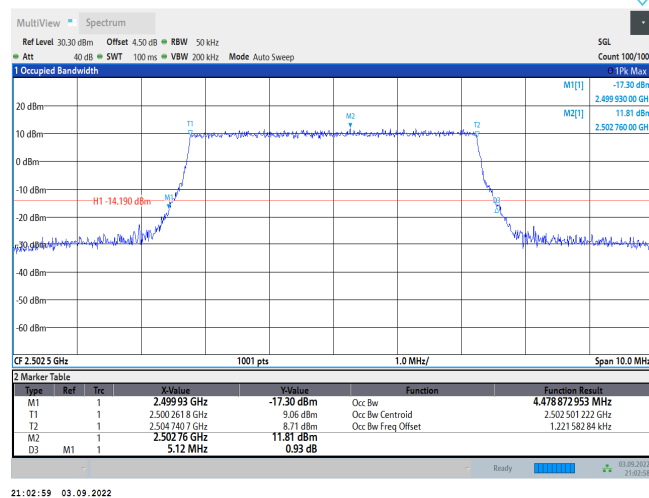
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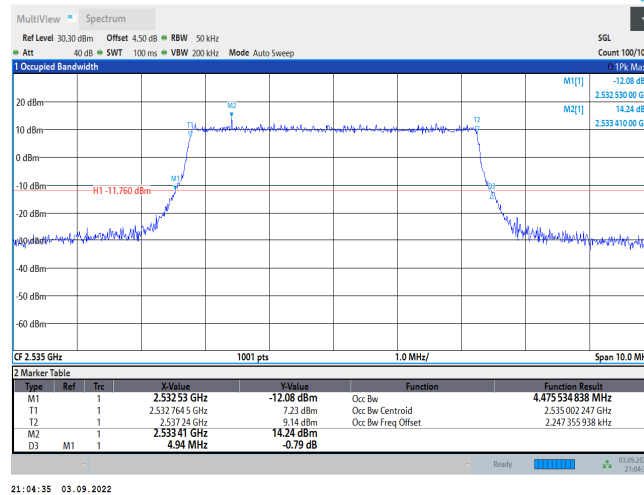


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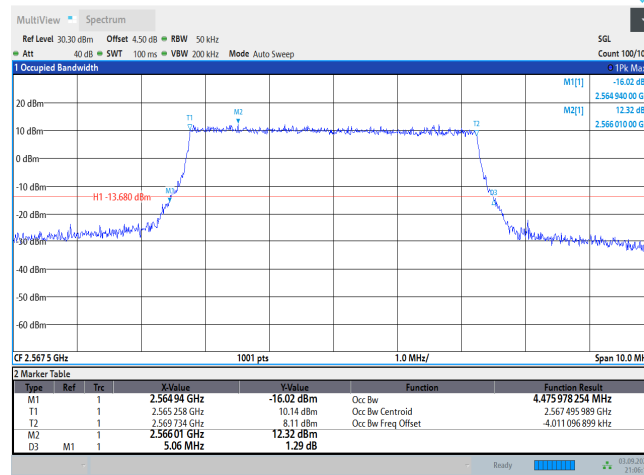
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Band7-5MHz-16QAM-21425-25RB#0



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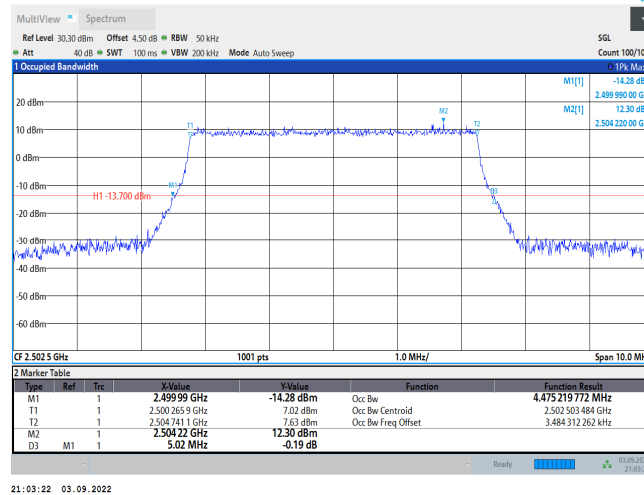
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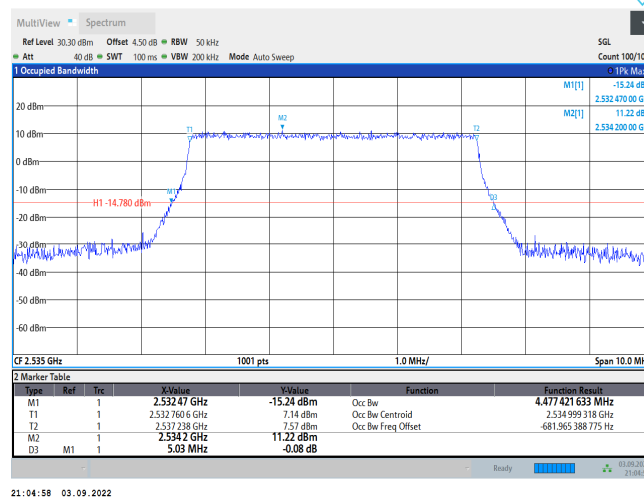
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Band7-5MHz-64QAM-21100-25RB#0

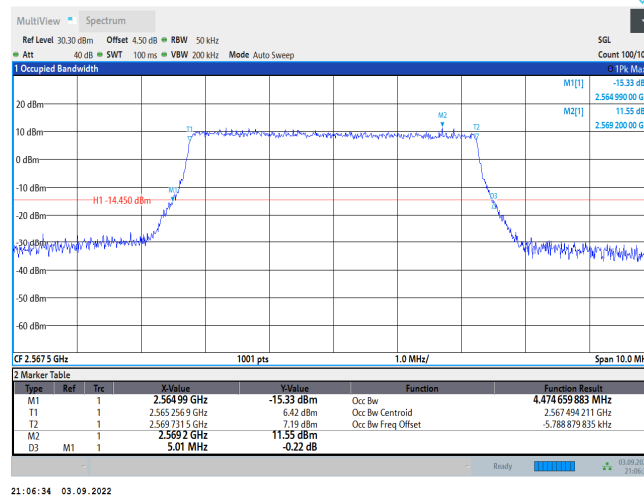


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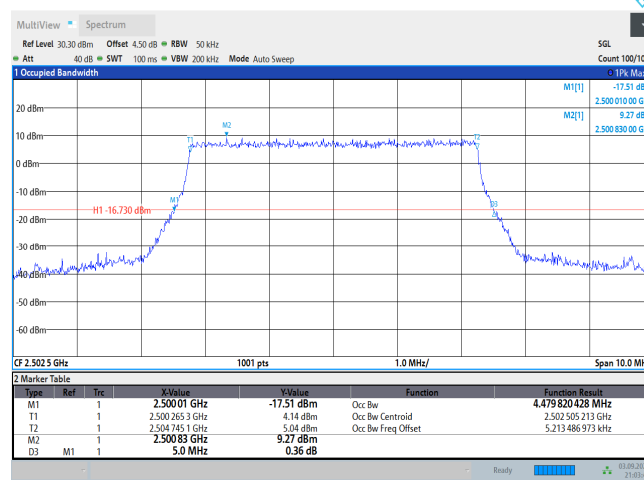
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21:06:34 03.09.2022

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



21:03:45 03.09.2022

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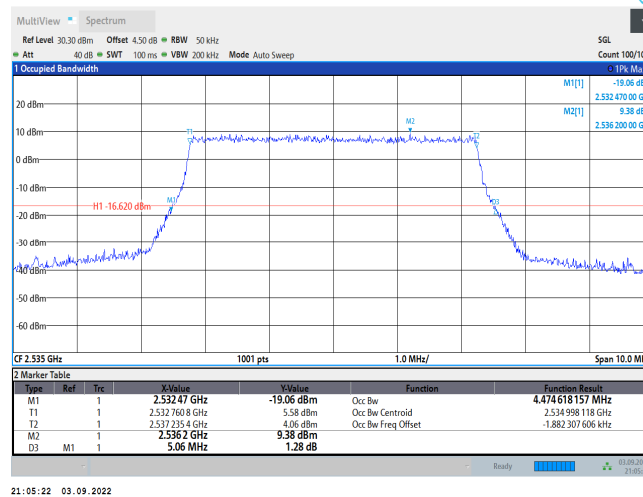
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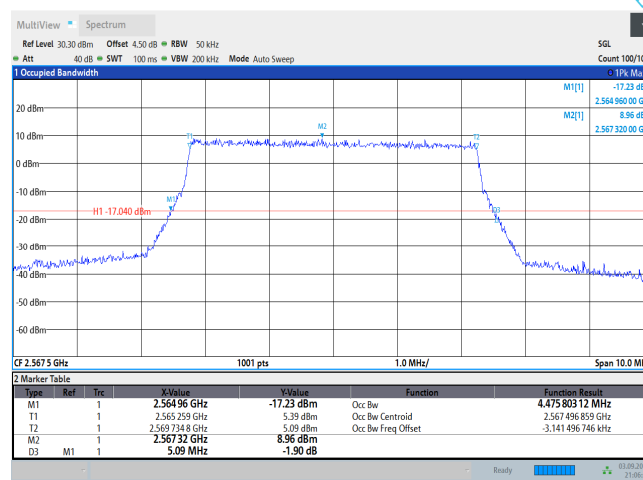
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Band7-5MHz-256QAM-21425-25RB#0



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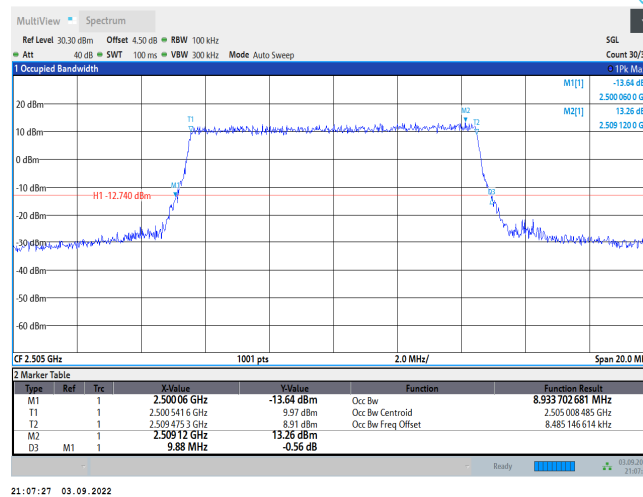
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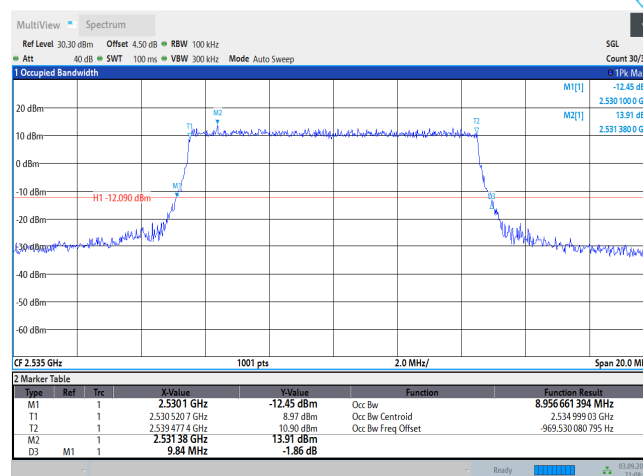
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Band7-10MHz-QPSK-20800-50RB#0



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



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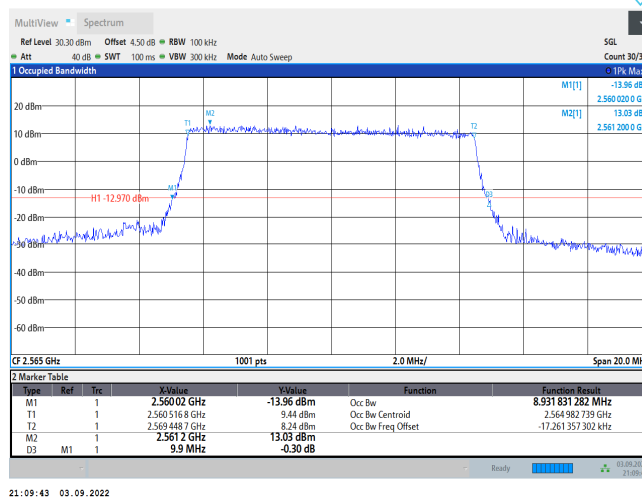
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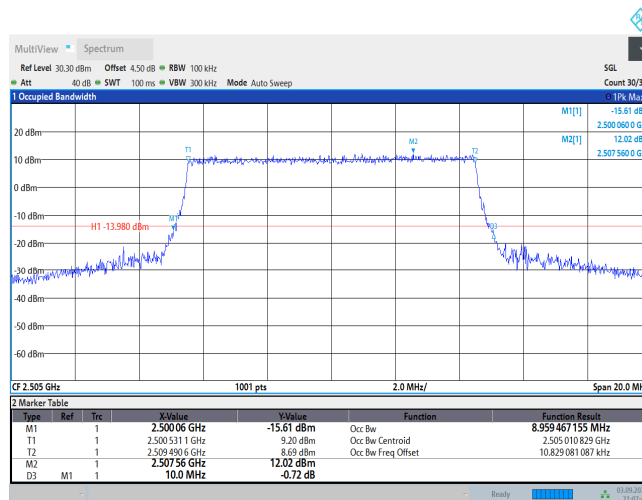
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Band7-10MHz-QPSK-21400-50RB#0



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



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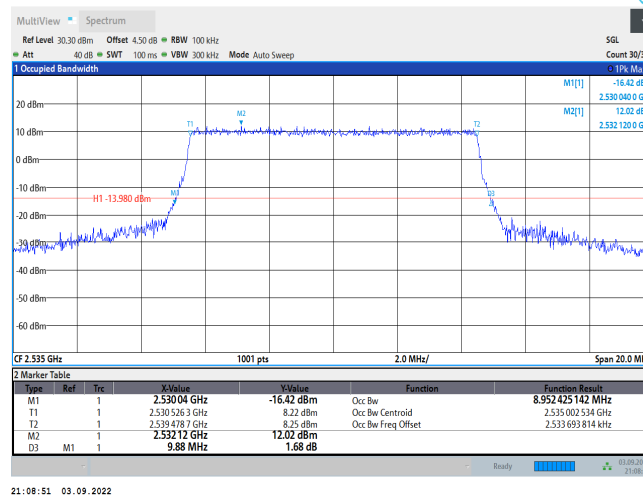
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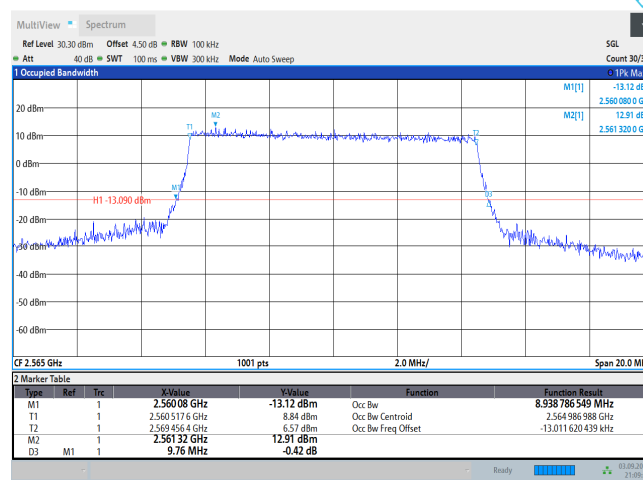
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Band7-10MHz-16QAM-21400-50RB#0



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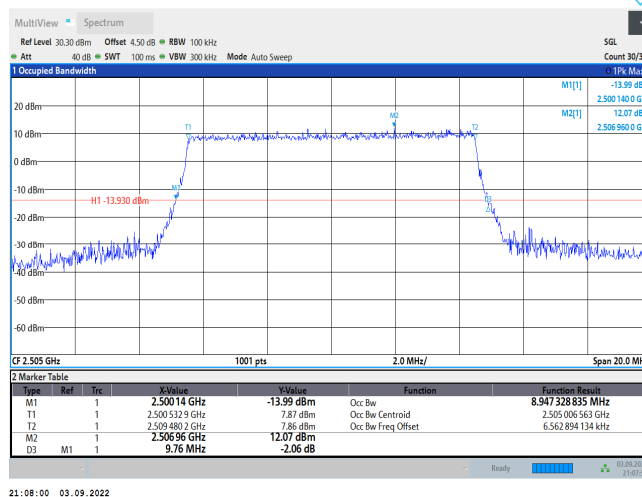
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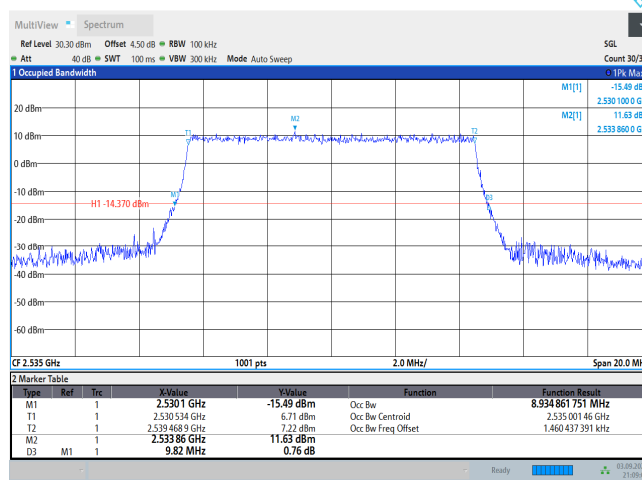
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Band7-10MHz-64QAM-21100-50RB#0



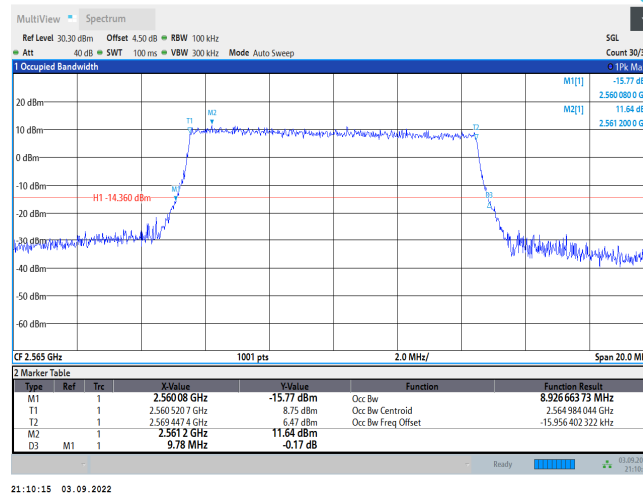
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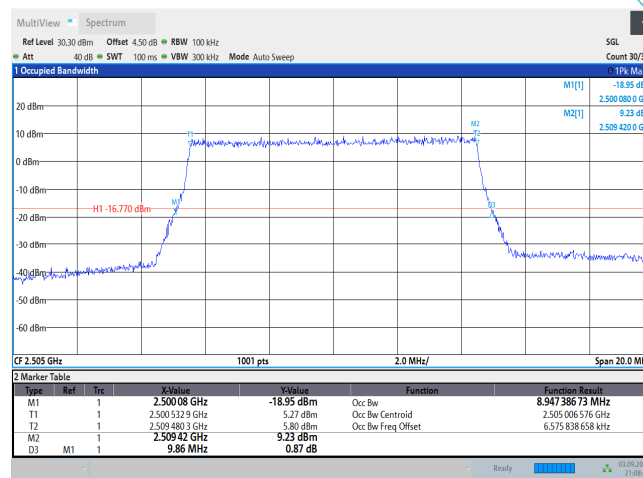
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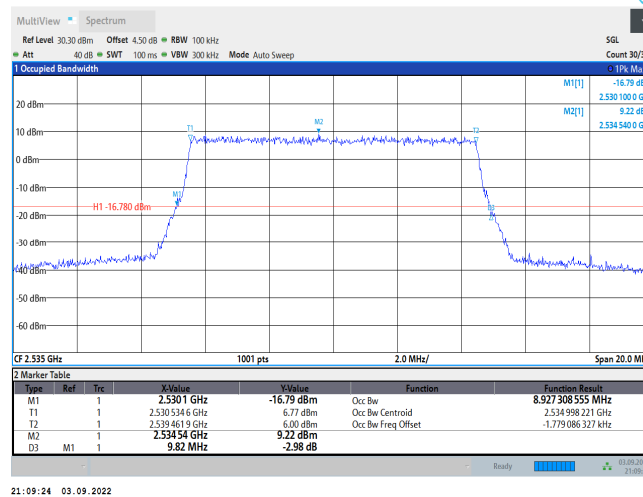
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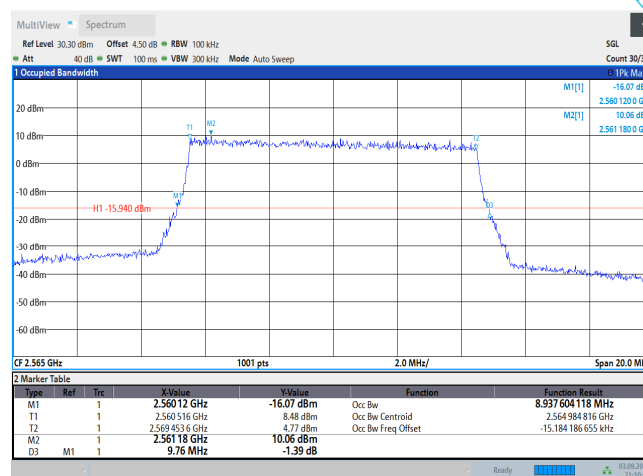
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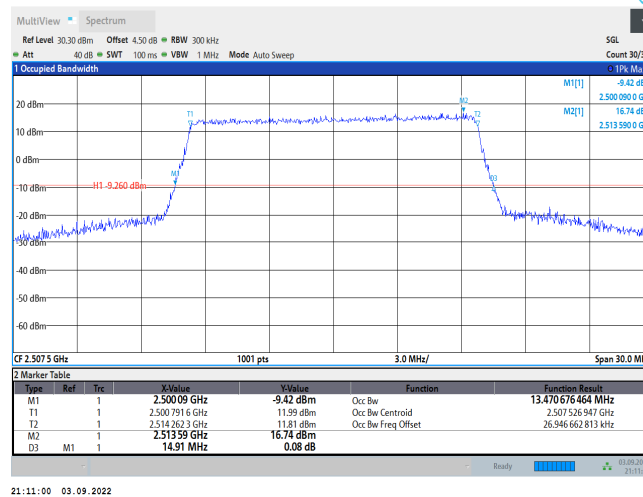
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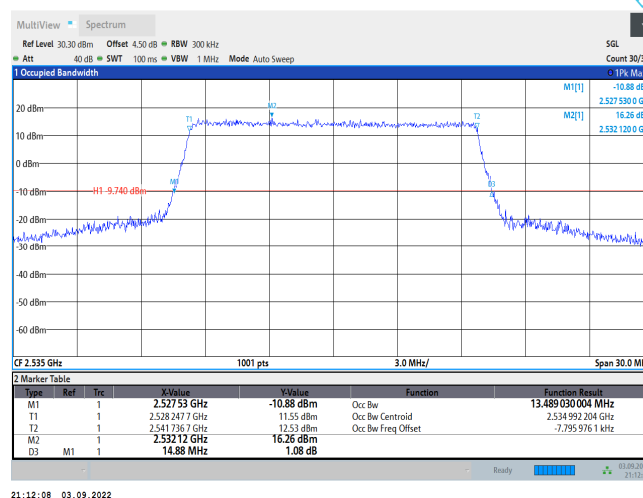
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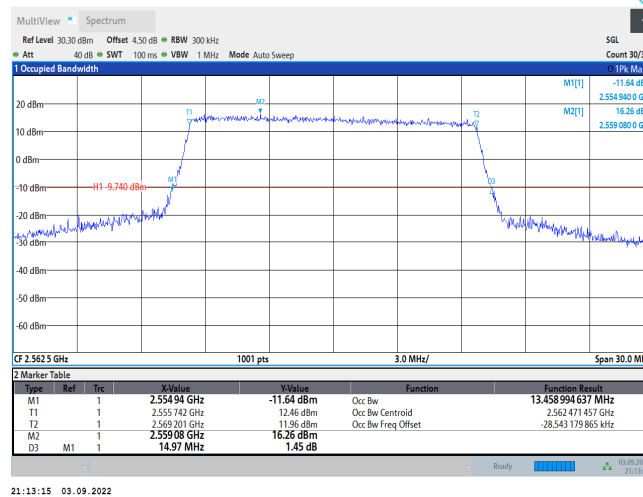
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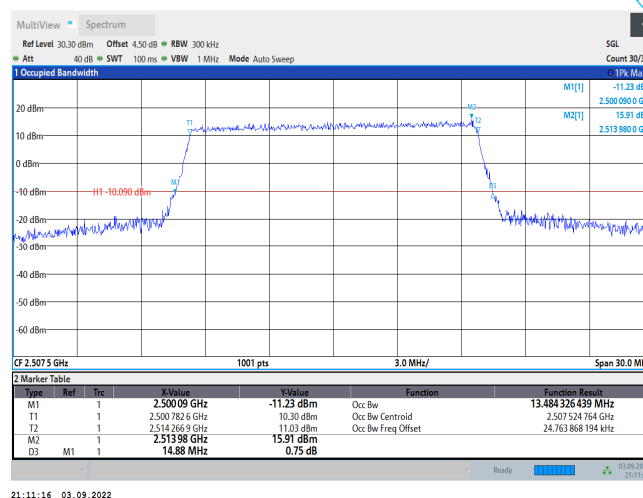
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Band7-15MHz-16QAM-20825-75RB#0

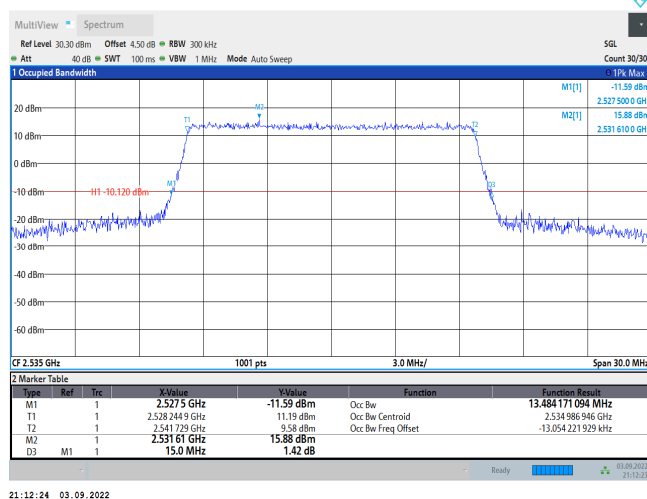


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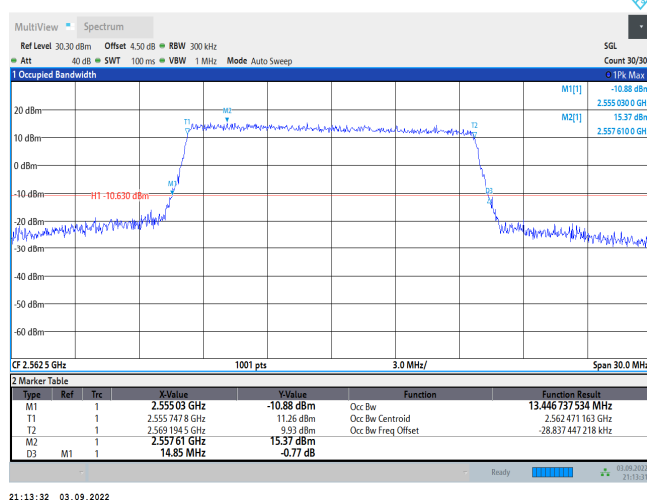
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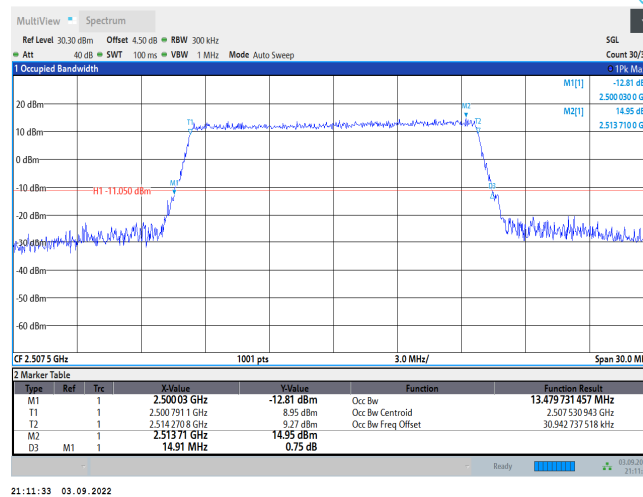
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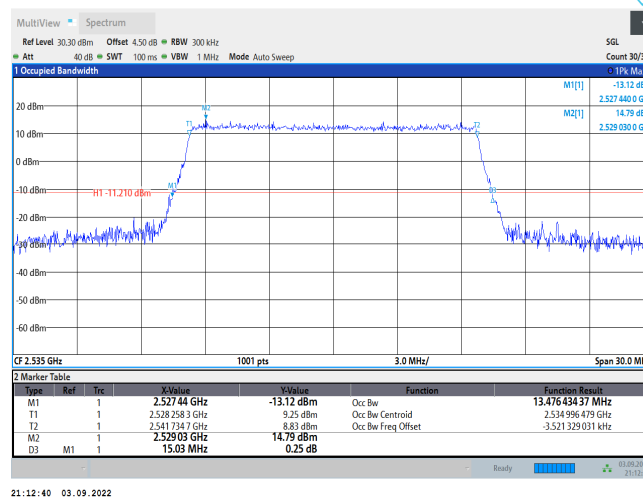
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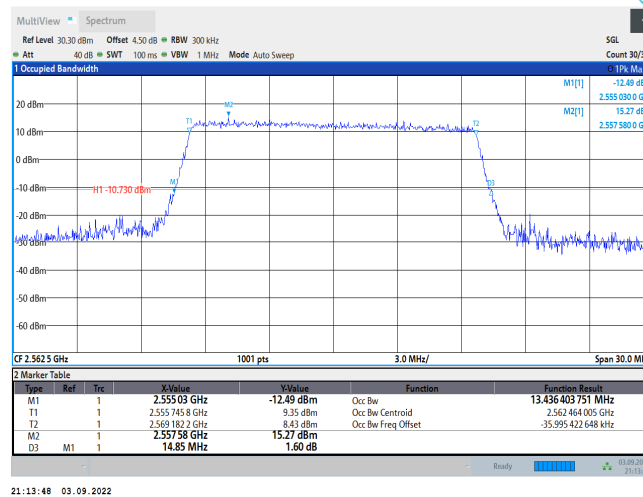
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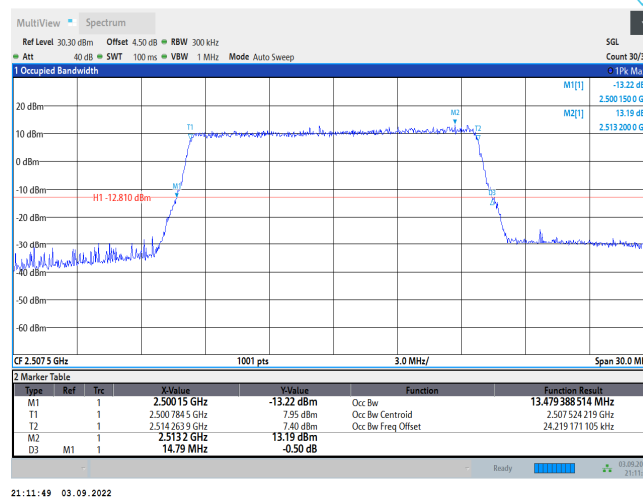
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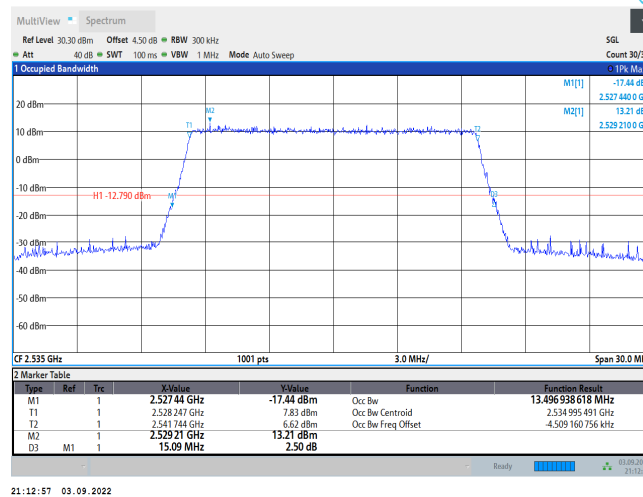
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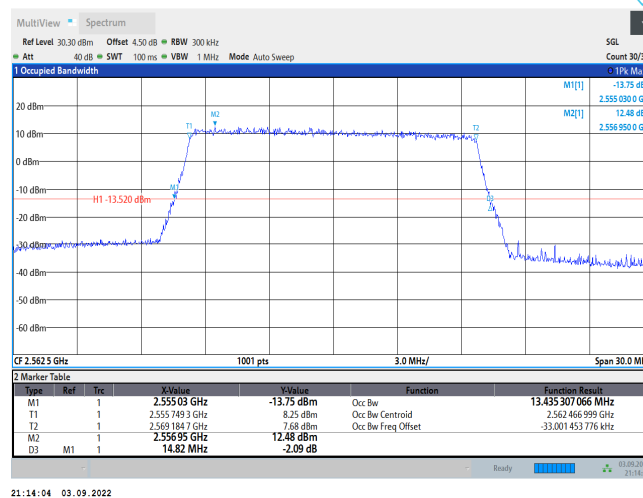
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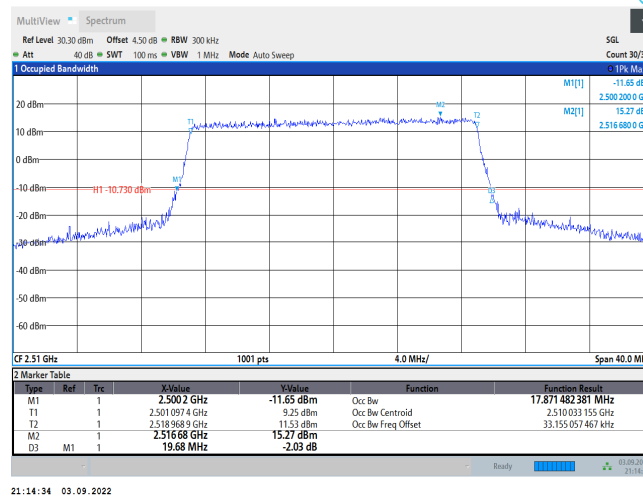
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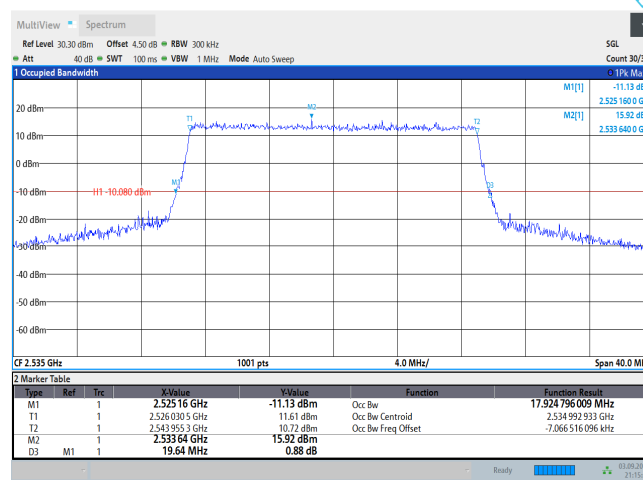
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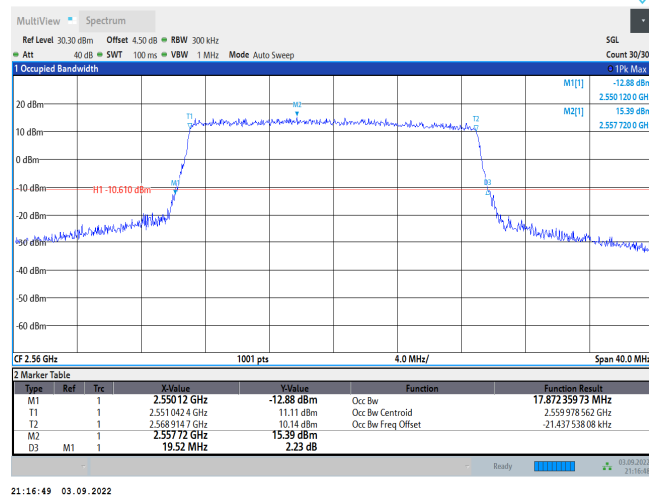
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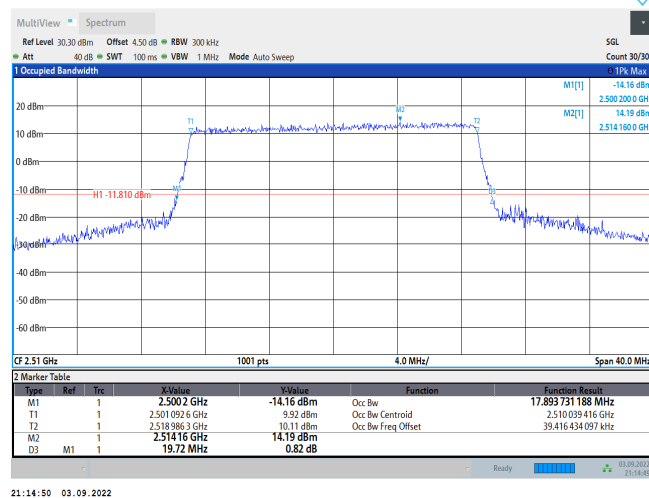
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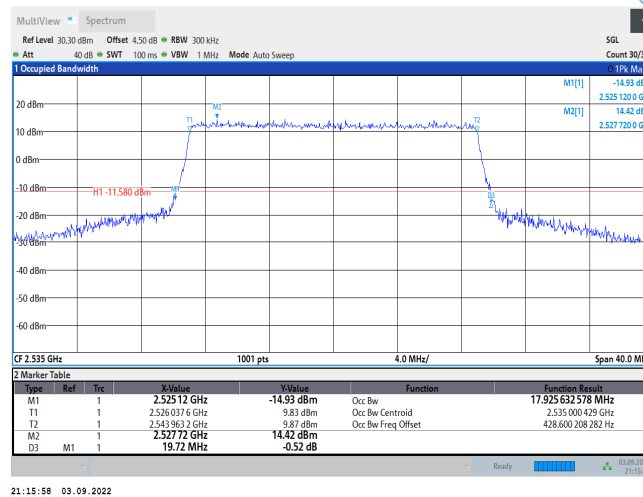
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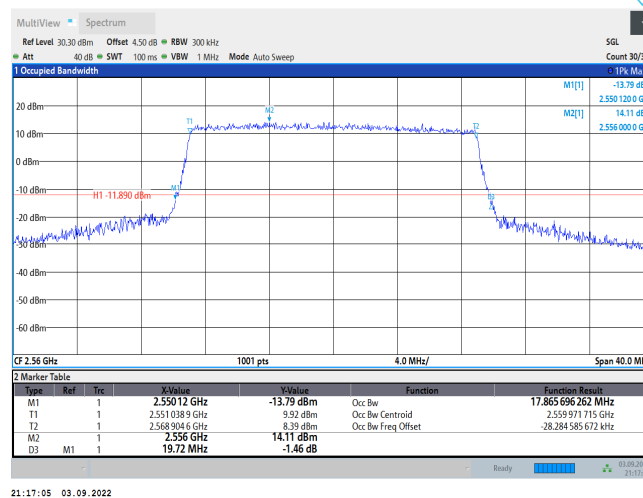
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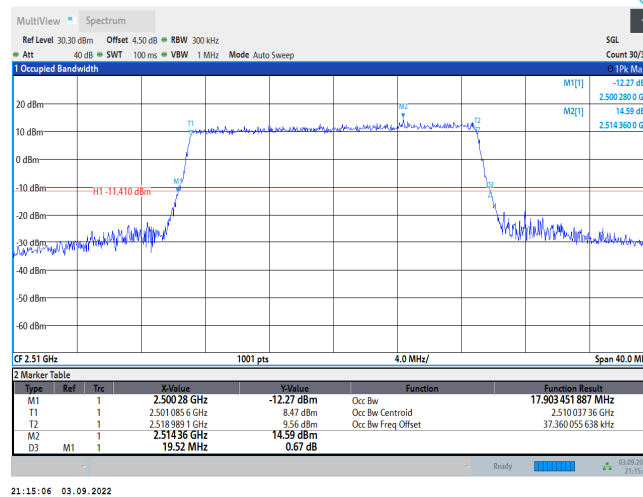


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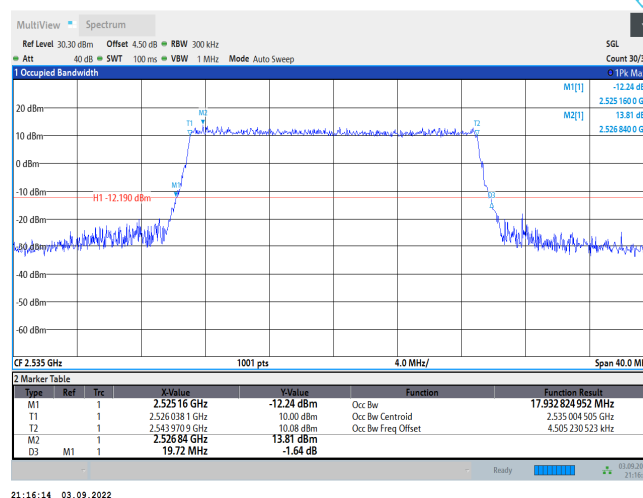
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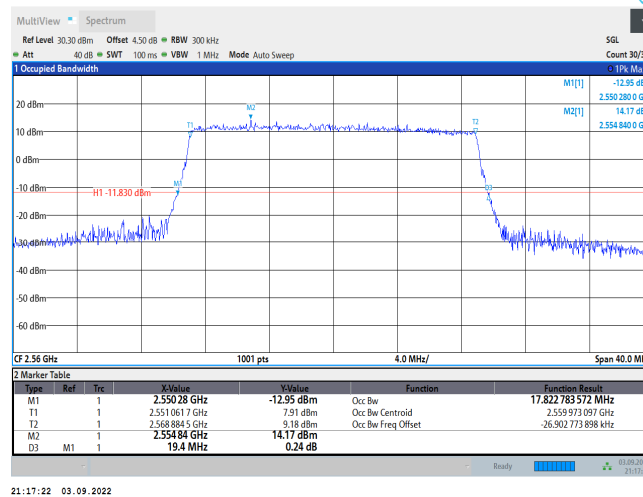
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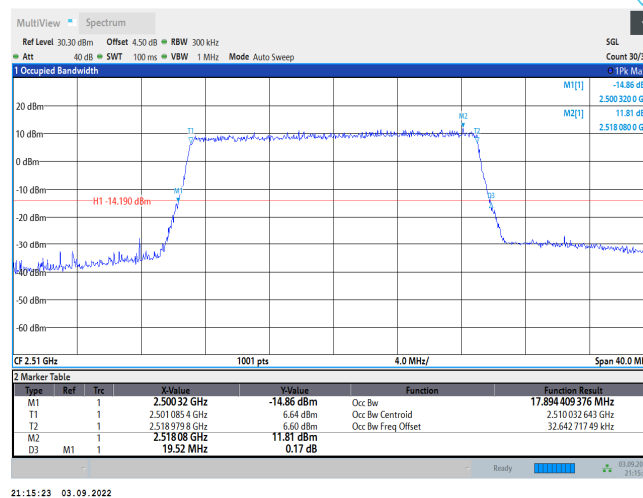
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Band7-20MHz-256QAM-20850-100RB#0

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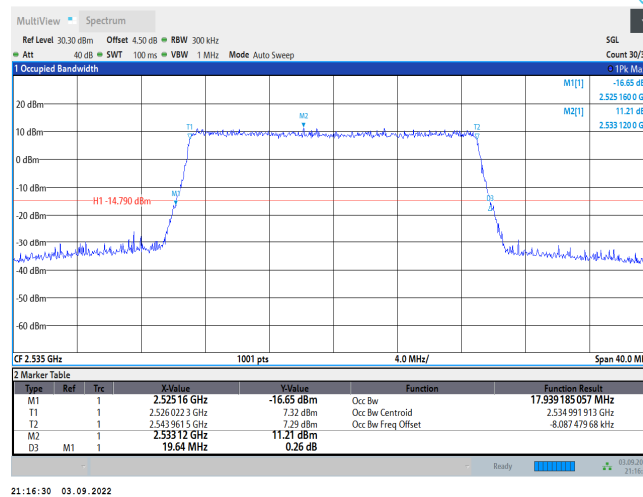
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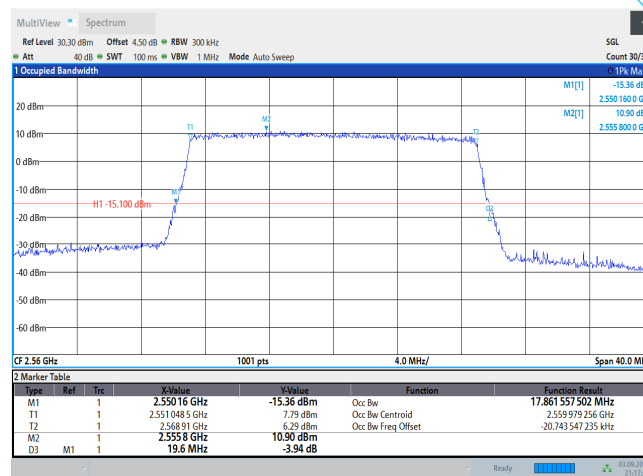
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Band7-20MHz-256QAM-21350-100RB#0



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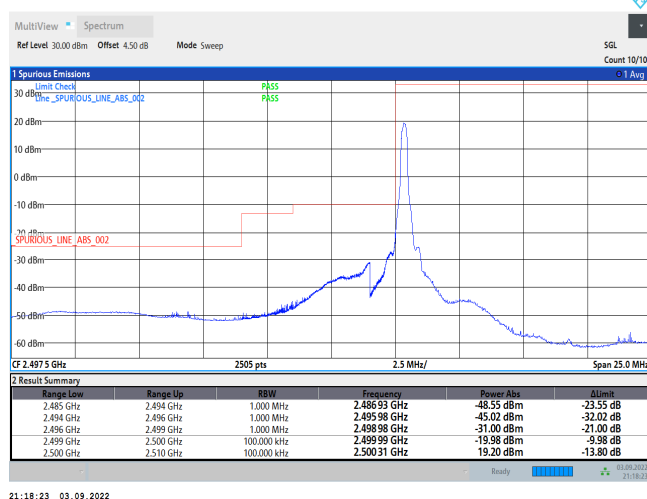
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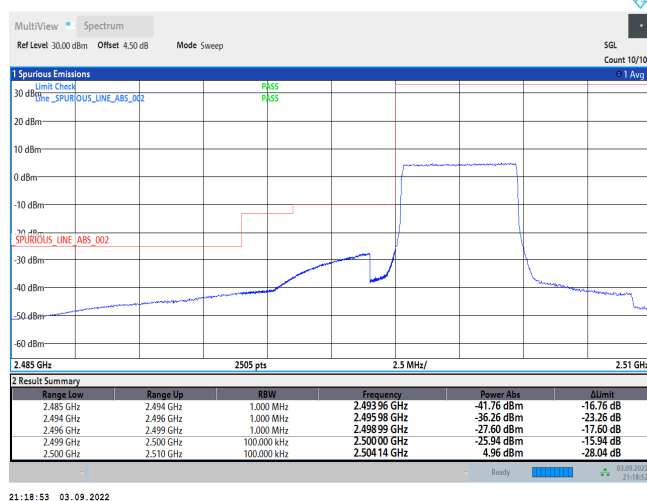
Band Edge

Test Graphs

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



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

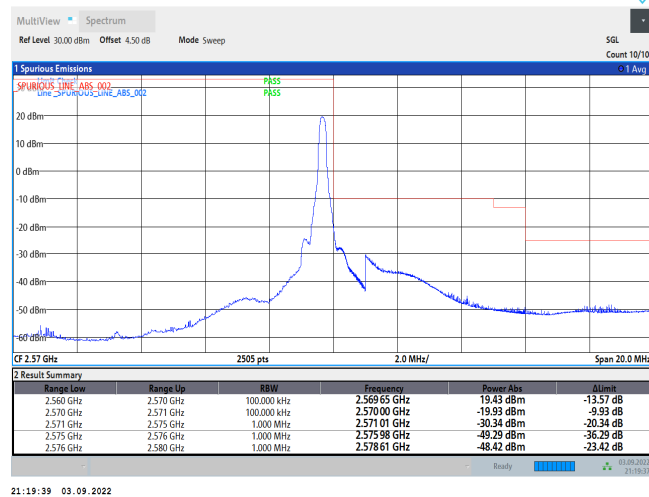


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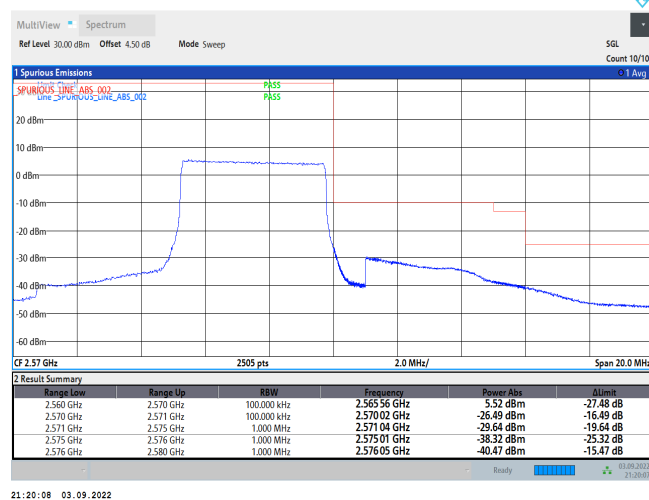
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Band7-5MHz-QPSK-21425-1RB#24



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

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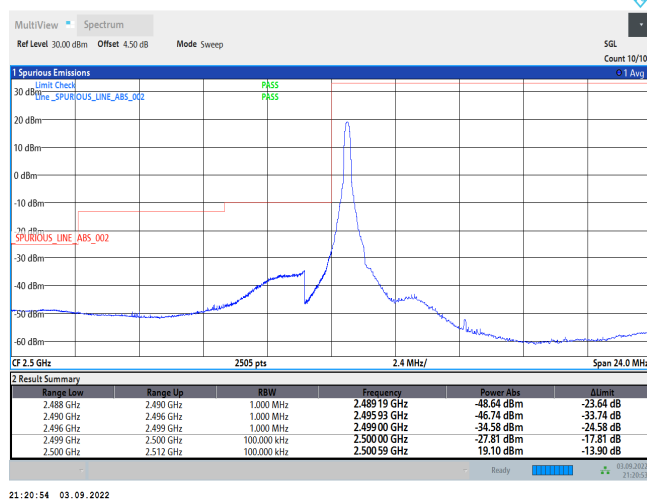
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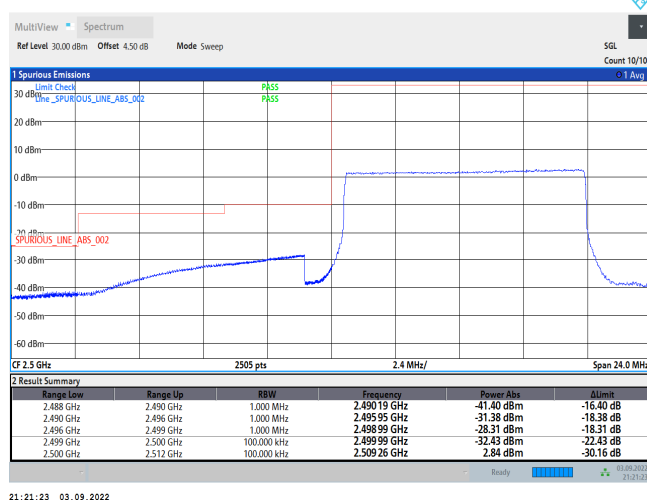
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Band7-10MHz-QPSK-20800-1RB#0



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

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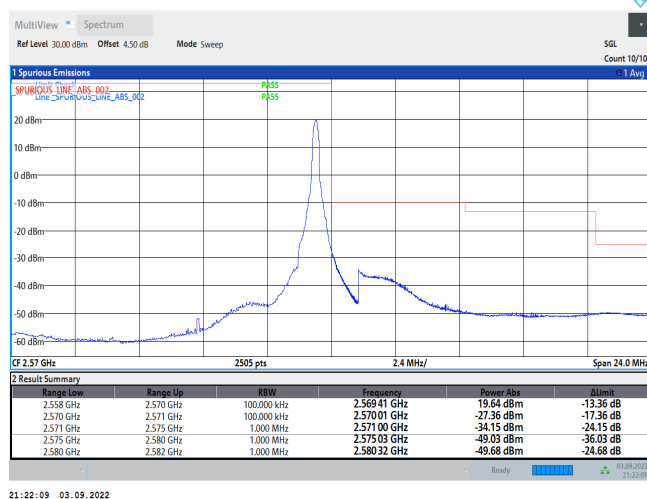
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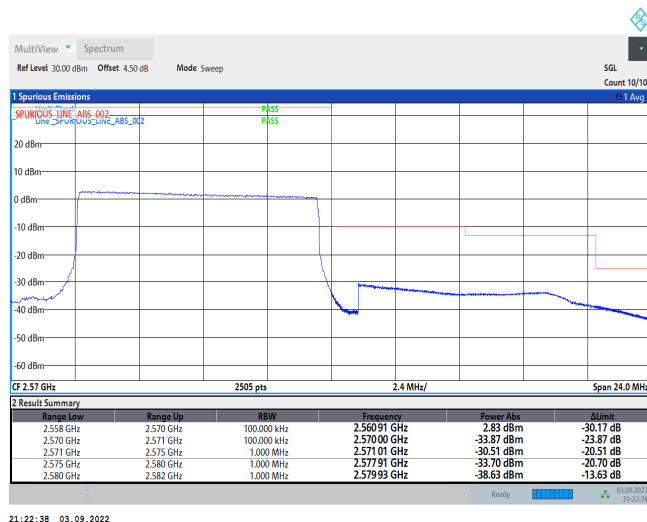
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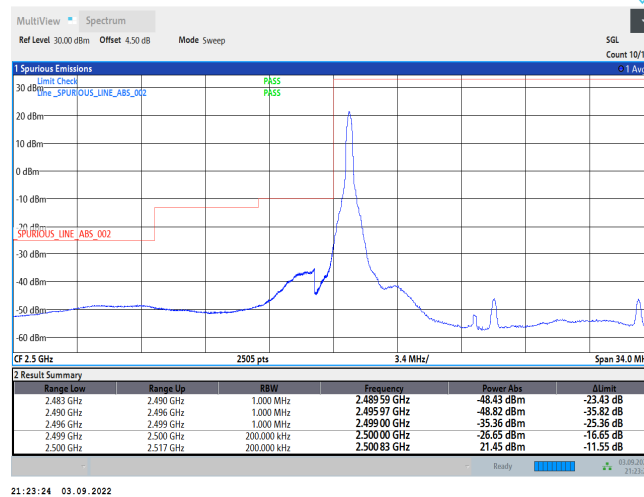
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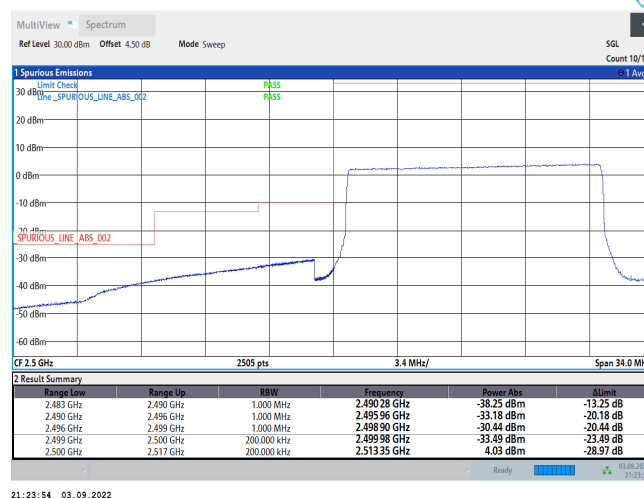
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Band7-15MHz-QPSK-20825-1RB#0



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

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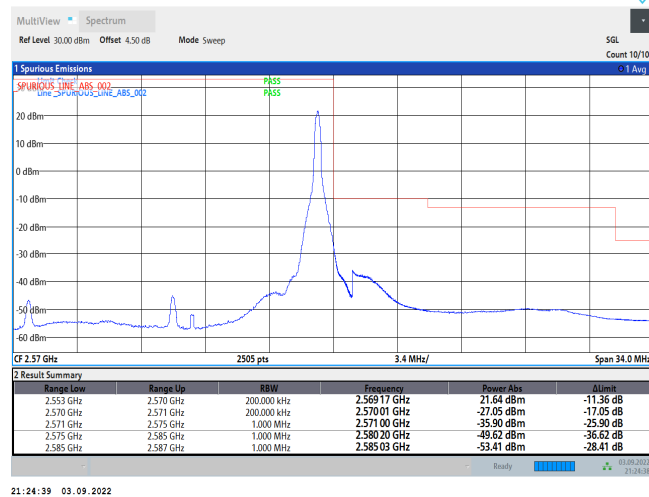
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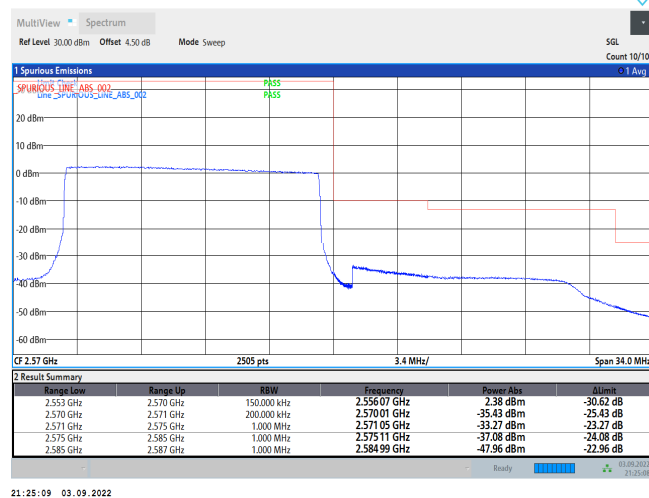
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Band7-15MHz-QPSK-21375-1RB#74



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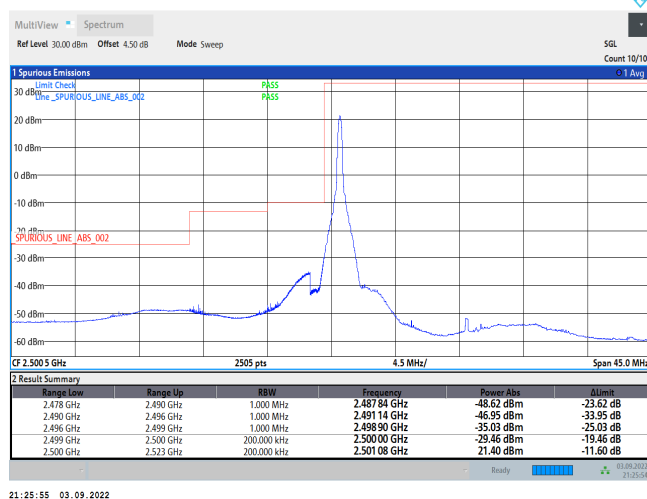
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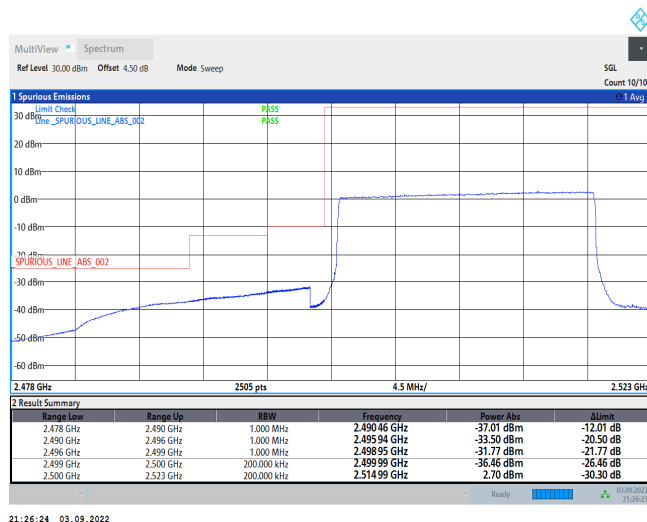
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Band7-20MHz-QPSK-20850-100RB#0

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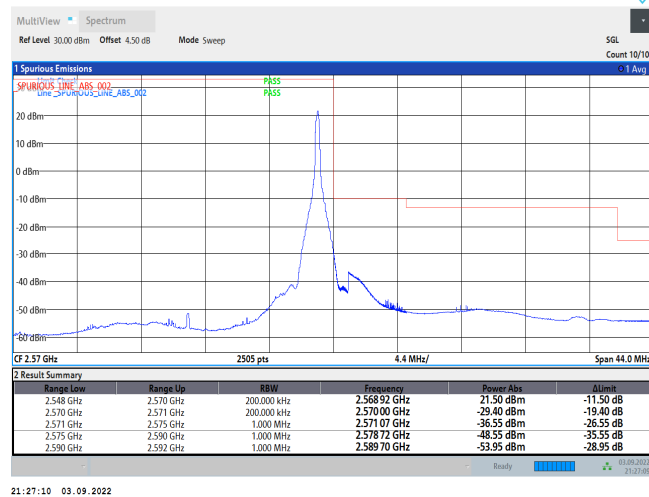
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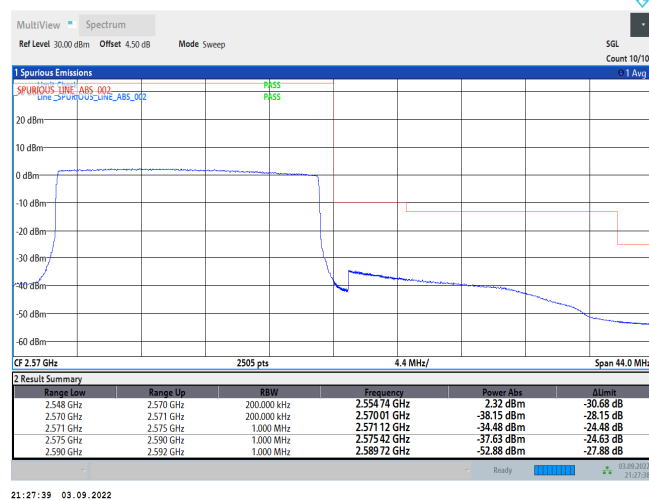
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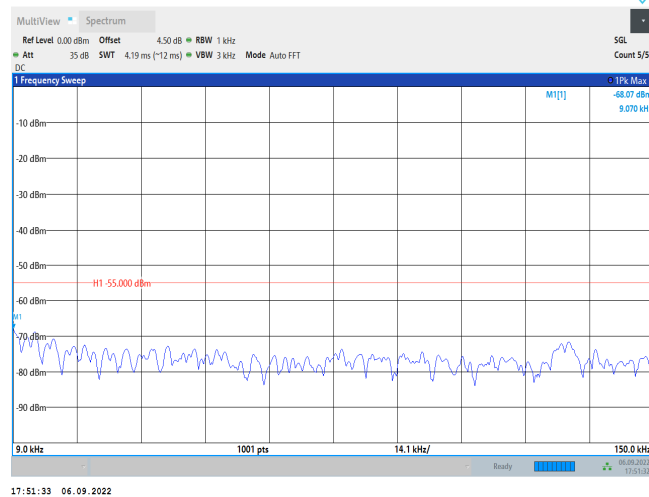
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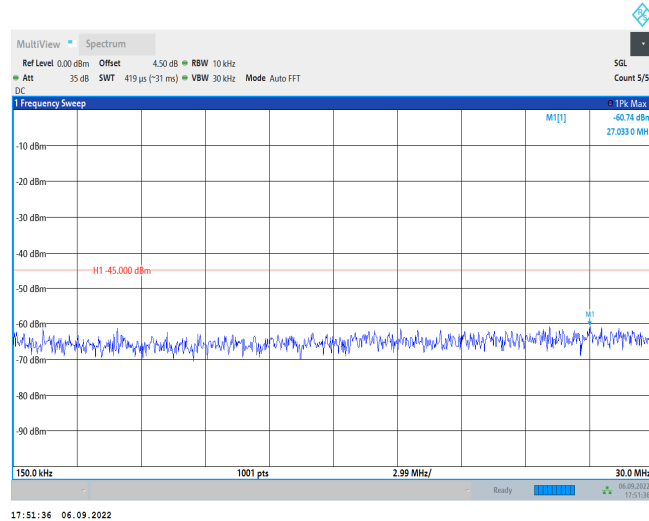
Conducted Spurious Emission

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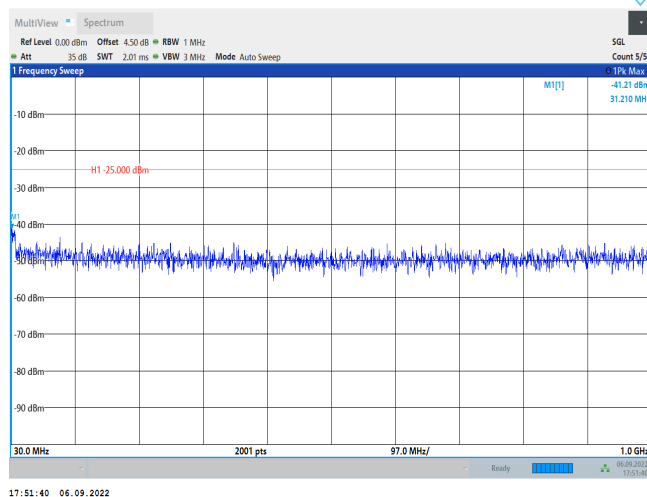
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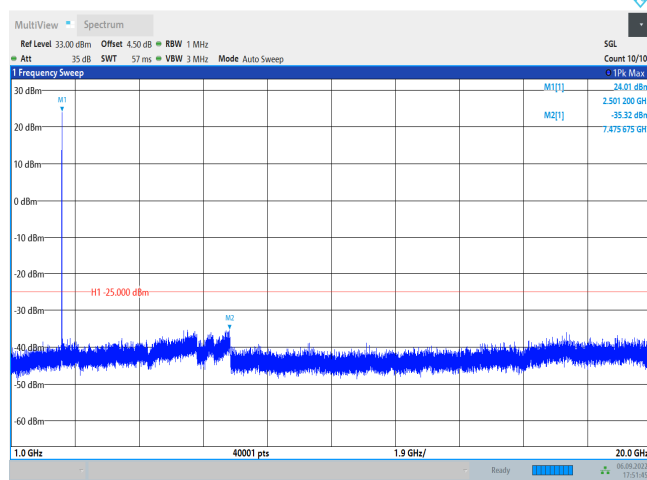
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Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz



17:51:40 06.09.2022

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



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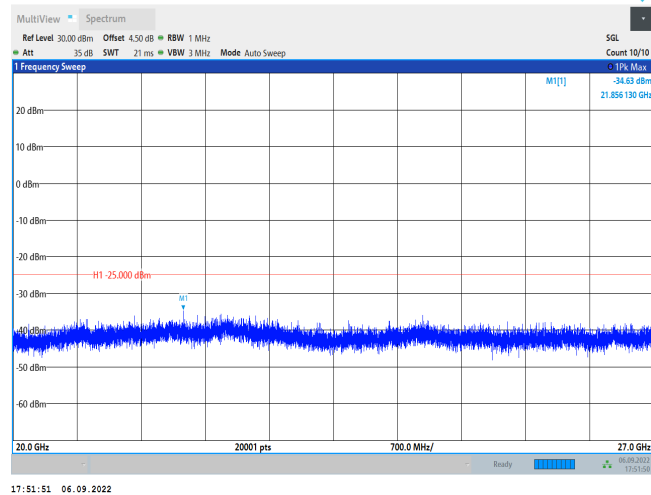
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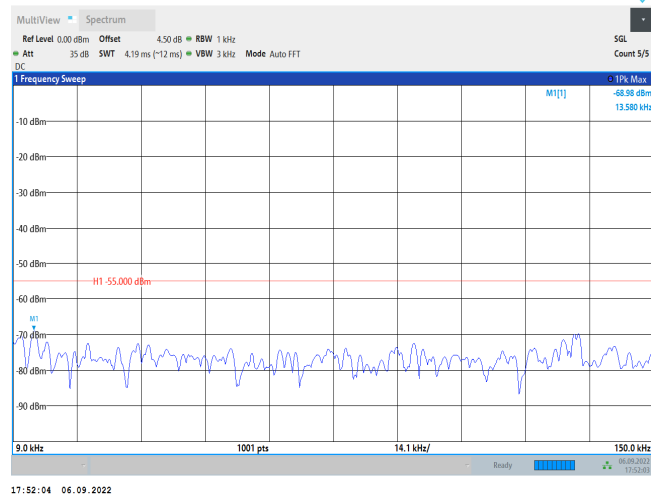
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Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz



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



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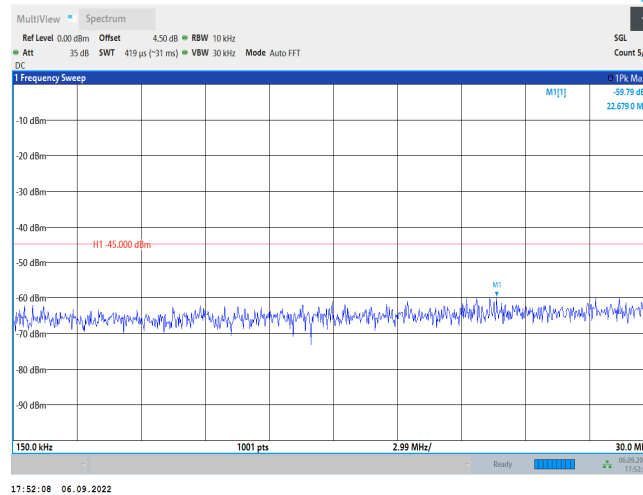
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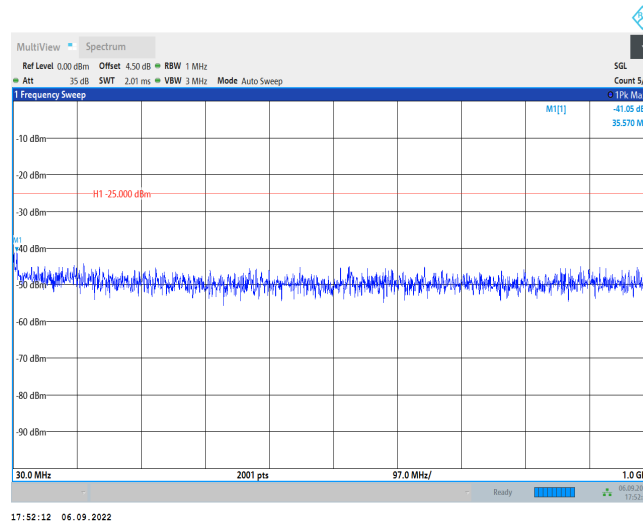
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Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz



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

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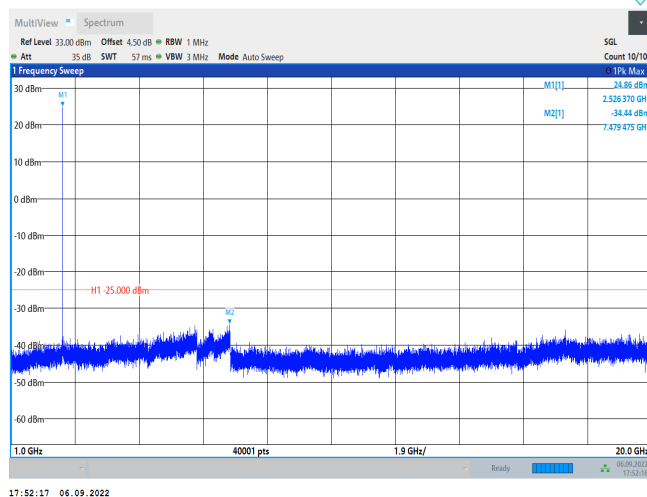
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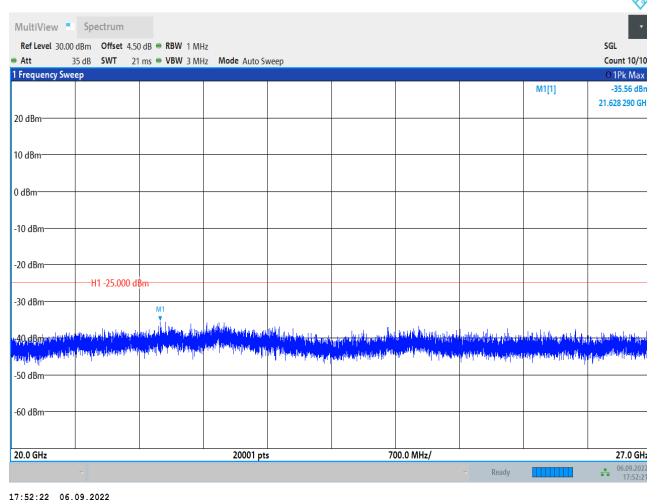
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Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz



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



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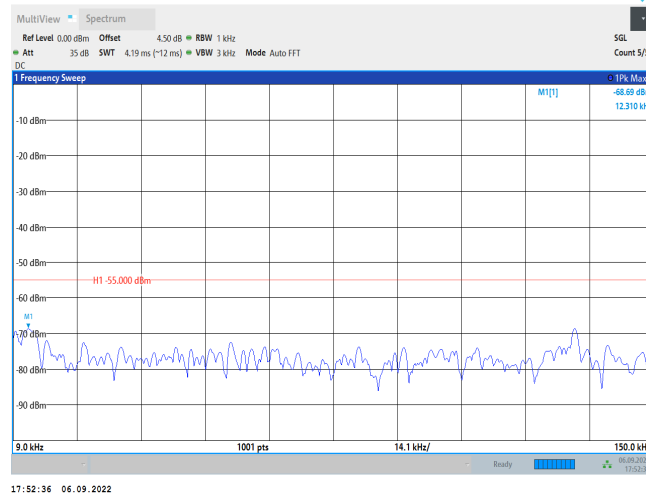
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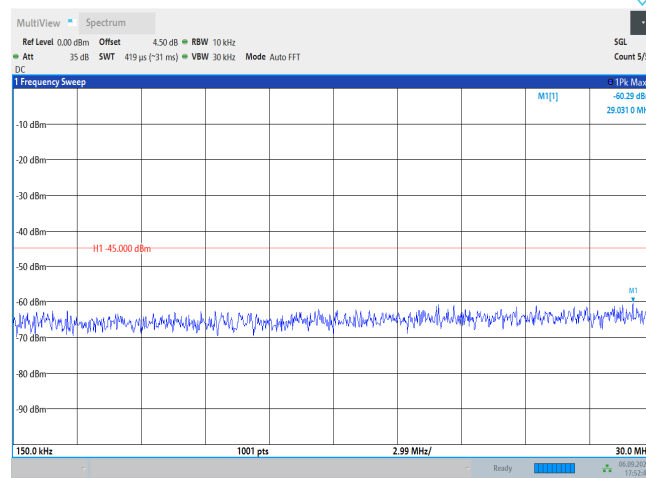
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Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



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



17:52:40 06.09.2022



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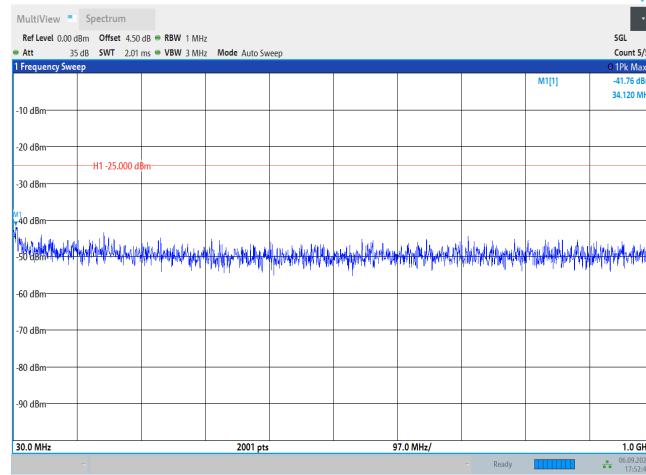
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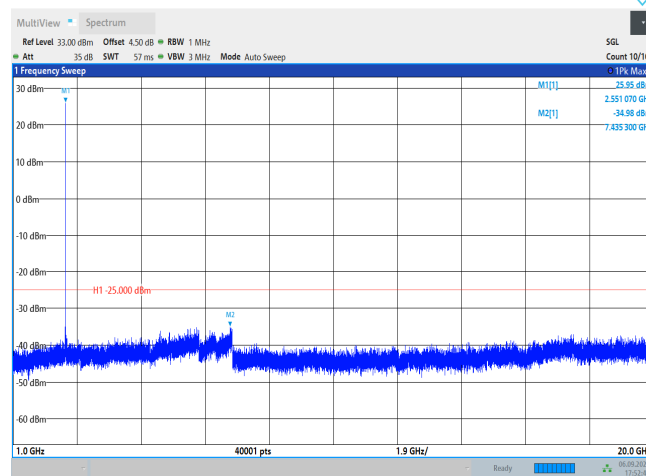
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



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



17:52:49 06.09.2022



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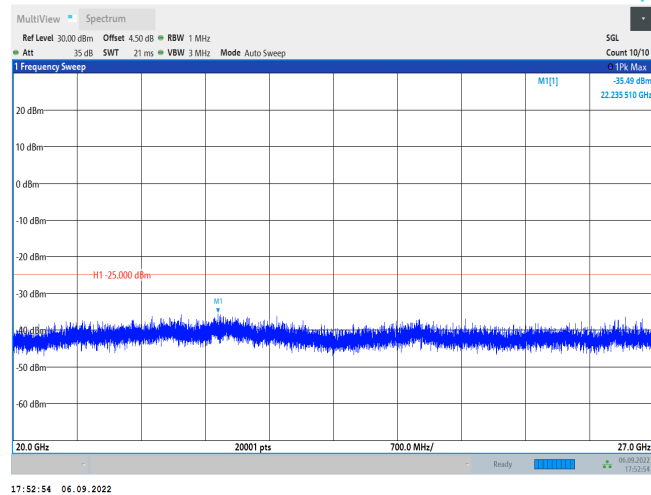
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Band7-20MHz-QPSK-21350-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band7_TM1

Test Channel = Low ANT1

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	51.66	-45.63	32.88	-56.35	-25.00	31.35	155	255	Horizontal
2	7503	55.85	-43.13	36.44	-46.11	-25.00	21.11	142	86	Horizontal
3	10004.3600	39.87	-39.23	38.50	-56.13	-25.00	31.13	236	133	Horizontal
4	12505.4500	34.47	-36.99	39.18	-58.60	-25.00	33.60	251	0	Horizontal
5	15006.5400	31.37	-34.65	39.21	-59.33	-25.00	34.33	299	193	Horizontal
6	17507.6300	34.23	-34.95	39.22	-56.76	-25.00	31.76	102	224	Horizontal

Test Band = LTE Band7_TM1

Test Channel = Low ANT1

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	52.31	-45.63	32.88	-55.70	-25.00	30.70	165	6	Vertical
2	7503	59.45	-43.13	36.44	-42.51	-25.00	17.51	145	286	Vertical
3	10004.3600	40.20	-39.23	38.50	-55.80	-25.00	30.80	185	1	Vertical
4	12505.4500	33.87	-36.99	39.18	-59.20	-25.00	34.20	142	357	Vertical
5	15006.5400	32.15	-34.65	39.21	-58.55	-25.00	33.55	163	300	Vertical
6	17507.6300	33.96	-34.95	39.22	-57.03	-25.00	32.03	219	178	Vertical



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Test Band = LTE Band7_ TM1**Test Channel = Mid ANT1**

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	49.97	-45.50	32.91	-57.88	-25.00	32.88	255	163	Horizontal
2	7578.2700	48.83	-42.97	36.40	-53.00	-25.00	28.00	145	72	Horizontal
3	10104.3600	39.39	-39.14	38.66	-56.35	-25.00	31.35	196	356	Horizontal
4	12630.4500	34.44	-37.33	39.33	-58.82	-25.00	33.82	142	331	Horizontal
5	15156.5400	33.10	-34.37	39.01	-57.52	-25.00	32.52	130	270	Horizontal
6	17682.6300	35.51	-33.89	40.06	-53.58	-25.00	28.58	261	86	Horizontal

Test Band = LTE Band7_ TM1**Test Channel = Mid ANT1**

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	50.09	-45.50	32.91	-57.76	-25.00	32.76	198	329	Vertical
2	7578.2700	57.41	-42.97	36.40	-44.42	-25.00	19.42	178	330	Vertical
3	10104.3600	38.78	-39.14	38.66	-56.96	-25.00	31.96	145	0	Vertical
4	12630.4500	35.72	-37.33	39.33	-57.54	-25.00	32.54	162	193	Vertical
5	15156.5400	32.27	-34.37	39.01	-58.35	-25.00	33.35	172	41	Vertical
6	17682.6300	34.72	-33.89	40.06	-54.37	-25.00	29.37	163	238	Vertical



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Test Band = LTE Band7_ TM1**Test Channel = High ANT1**

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	50.34	-45.37	32.94	-57.35	-25.00	32.35	265	252	Horizontal
2	7653.2700	47.74	-43.03	36.49	-54.06	-25.00	29.06	145	270	Horizontal
3	10204.3600	39.33	-39.48	38.81	-56.60	-25.00	31.60	125	317	Horizontal
4	12755.4500	35.39	-36.76	39.55	-57.08	-25.00	32.08	136	238	Horizontal
5	15306.5400	34.15	-34.36	38.82	-56.65	-25.00	31.65	261	0	Horizontal
6	17857.6300	37.58	-34.56	41.24	-51.00	-25.00	26.00	175	56	Horizontal

Test Band = LTE Band7_ TM1**Test Channel = High ANT1**

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	53.38	-45.37	32.94	-54.31	-25.00	29.31	168	316	Vertical
2	7653.2700	54.53	-43.03	36.49	-47.27	-25.00	22.27	145	316	Vertical
3	10204.3600	39.59	-39.48	38.81	-56.34	-25.00	31.34	198	357	Vertical
4	12755.4500	35.44	-36.76	39.55	-57.03	-25.00	32.03	125	177	Vertical
5	15306.5400	32.67	-34.36	38.82	-58.13	-25.00	33.13	147	13	Vertical
6	17857.6300	38.01	-34.56	41.24	-50.57	-25.00	25.57	125	0	Vertical



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Test Band = LTE Band7_ TM1**Test Channel = Low ANT0**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	50.70	-45.63	32.88	-57.31	-25.00	32.31	216	38	Horizontal
2	7503	51.54	-43.13	36.44	-50.42	-25.00	25.42	154	101	Horizontal
3	10004.3600	34.83	-39.23	38.50	-61.17	-25.00	36.17	188	179	Horizontal
4	12505.4500	28.63	-36.99	39.18	-64.44	-25.00	39.44	195	208	Horizontal
5	15006.5400	28.89	-34.65	39.21	-61.81	-25.00	36.81	142	70	Horizontal
6	17507.6300	30.02	-34.95	39.22	-60.97	-25.00	35.97	136	177	Horizontal

Test Band = LTE Band7_ TM1**Test Channel = Low ANT0**

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	52.60	-45.63	32.88	-55.41	-25.00	30.41	165	346	Vertical
2	7503.2700	52.89	-43.13	36.44	-49.06	-25.00	24.06	142	316	Vertical
3	10004.3600	35.52	-39.23	38.50	-60.48	-25.00	35.48	133	215	Vertical
4	12505.4500	28.57	-36.99	39.18	-64.50	-25.00	39.50	261	133	Vertical
5	15006.5400	28.11	-34.65	39.21	-62.59	-25.00	37.59	154	357	Vertical
6	17507.6300	29.45	-34.95	39.22	-61.54	-25.00	36.54	185	329	Vertical



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Test Band = LTE Band7_ TM1**Test Channel = Mid ANT0**

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	48.47	-45.50	32.91	-59.38	-25.00	34.38	255	194	Horizontal
2	7578.2700	48.55	-42.97	36.40	-53.28	-25.00	28.28	142	132	Horizontal
3	10104.3600	33.86	-39.14	38.66	-61.88	-25.00	36.88	166	115	Horizontal
4	12630.4500	30.17	-37.33	39.33	-63.09	-25.00	38.09	125	177	Horizontal
5	15156.5400	28.19	-34.37	39.01	-62.43	-25.00	37.43	142	0	Horizontal
6	17682.6300	30.84	-33.89	40.06	-58.25	-25.00	33.25	136	346	Horizontal

Test Band = LTE Band7_ TM1**Test Channel = Mid ANT0**

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	49.64	-45.50	32.91	-58.21	-25.00	33.21	284	313	Vertical
2	7578.2700	50.06	-42.97	36.40	-51.77	-25.00	26.77	175	313	Vertical
3	10104.3600	33.18	-39.14	38.66	-62.56	-25.00	37.56	142	299	Vertical
4	12630.4500	29.92	-37.33	39.33	-63.34	-25.00	38.34	163	283	Vertical
5	15156.5400	28.86	-34.37	39.01	-61.76	-25.00	36.76	261	100	Vertical
6	17682.6300	29.27	-33.89	40.06	-59.82	-25.00	34.82	199	238	Vertical



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Test Band = LTE Band7_ TM1**Test Channel = High ANT0**

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	47.64	-45.37	32.94	-60.05	-25.00	35.05	251	357	Horizontal
2	7653.2700	45.58	-43.03	36.49	-56.22	-25.00	31.22	148	12	Horizontal
3	10204.3600	33.48	-39.48	38.81	-62.45	-25.00	37.45	169	269	Horizontal
4	12755.4500	30.24	-36.76	39.55	-62.23	-25.00	37.23	154	357	Horizontal
5	15306.5400	29.90	-34.36	38.82	-60.90	-25.00	35.90	182	1	Horizontal
6	17857.6300	30.53	-34.56	41.24	-58.05	-25.00	33.05	132	357	Horizontal

Test Band = LTE Band7_ TM1**Test Channel = High ANT0**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.1800	49.30	-45.37	32.94	-58.39	-25.00	33.39	215	331	Vertical
2	7653.2700	50.52	-43.03	36.49	-51.28	-25.00	26.28	148	315	Vertical
3	10204.3600	32.12	-39.48	38.81	-63.81	-25.00	38.81	126	329	Vertical
4	12755.4500	31.57	-36.76	39.55	-60.90	-25.00	35.90	132	1	Vertical
5	15306.5400	28.40	-34.36	38.82	-62.40	-25.00	37.40	166	314	Vertical
6	17857.6300	30.87	-34.56	41.24	-57.71	-25.00	32.71	145	6	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	2.50	0.000986	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	0.60	0.000237	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	0.80	0.000316	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-2.70	-0.001065	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	0.30	0.000118	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	2.40	0.000947	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	0.50	0.000197	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	2.20	0.000868	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	0.50	0.000197	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	0.90	0.000355	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-2.00	-0.000789	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	2.10	0.000828	PASS

---End of Attachment---



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