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Appendix B.4

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	23.18	25.39	33	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.25	25.46	33	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.18	25.39	33	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.18	24.39	33	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.36	25.57	33	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.78	24.99	33	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.72	24.93	33	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.7	23.91	33	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.25	25.46	33	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.12	25.33	33	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.13	25.34	33	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.04	24.25	33	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.25	24.46	33	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.28	24.49	33	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.14	24.35	33	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.15	23.36	33	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.83	24.04	33	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.96	24.17	33	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.91	24.12	33	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.77	22.98	33	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.03	24.24	33	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.14	24.35	33	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.22	24.43	33	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.09	23.3	33	PASS
Band7	5MHz	64QAM	20775	1RB#0	21.22	23.43	33	PASS
Band7	5MHz	64QAM	20775	1RB#12	21.39	23.6	33	PASS
Band7	5MHz	64QAM	20775	1RB#24	21.19	23.4	33	PASS



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Band7	5MHz	64QAM	20775	25RB#0	20.15	22.36	33	PASS
Band7	5MHz	64QAM	21100	1RB#0	21.04	23.25	33	PASS
Band7	5MHz	64QAM	21100	1RB#12	20.89	23.1	33	PASS
Band7	5MHz	64QAM	21100	1RB#24	20.88	23.09	33	PASS
Band7	5MHz	64QAM	21100	25RB#0	19.79	22	33	PASS
Band7	5MHz	64QAM	21425	1RB#0	21.26	23.47	33	PASS
Band7	5MHz	64QAM	21425	1RB#12	21.22	23.43	33	PASS
Band7	5MHz	64QAM	21425	1RB#24	21.15	23.36	33	PASS
Band7	5MHz	64QAM	21425	25RB#0	20.06	22.27	33	PASS
Band7	5MHz	256QAM	20775	1RB#0	18.07	20.28	33	PASS
Band7	5MHz	256QAM	20775	1RB#12	18.36	20.57	33	PASS
Band7	5MHz	256QAM	20775	1RB#24	18.3	20.51	33	PASS
Band7	5MHz	256QAM	20775	25RB#0	18.19	20.4	33	PASS
Band7	5MHz	256QAM	21100	1RB#0	17.88	20.09	33	PASS
Band7	5MHz	256QAM	21100	1RB#12	17.96	20.17	33	PASS
Band7	5MHz	256QAM	21100	1RB#24	17.78	19.99	33	PASS
Band7	5MHz	256QAM	21100	25RB#0	17.8	20.01	33	PASS
Band7	5MHz	256QAM	21425	1RB#0	18.07	20.28	33	PASS
Band7	5MHz	256QAM	21425	1RB#12	18.35	20.56	33	PASS
Band7	5MHz	256QAM	21425	1RB#24	18.22	20.43	33	PASS
Band7	5MHz	256QAM	21425	25RB#0	17.97	20.18	33	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.03	25.24	33	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.11	25.32	33	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.18	25.39	33	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.19	24.4	33	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.34	25.55	33	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.85	25.06	33	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.7	24.91	33	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.82	24.03	33	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.33	25.54	33	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.92	25.13	33	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.98	25.19	33	PASS



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Band7	10MHz	16QAM	20800	1RB#0	22.18	24.39	33	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.27	24.48	33	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.27	24.48	33	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.14	23.35	33	PASS
Band7	10MHz	16QAM	21100	1RB#0	21.88	24.09	33	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.95	24.16	33	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.84	24.05	33	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.8	23.01	33	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.94	24.15	33	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.12	24.33	33	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.09	24.3	33	PASS
Band7	10MHz	16QAM	21400	50RB#0	21	23.21	33	PASS
Band7	10MHz	64QAM	20800	1RB#0	21.38	23.59	33	PASS
Band7	10MHz	64QAM	20800	1RB#24	21.43	23.64	33	PASS
Band7	10MHz	64QAM	20800	1RB#49	21.54	23.75	33	PASS
Band7	10MHz	64QAM	20800	50RB#0	20.18	22.39	33	PASS
Band7	10MHz	64QAM	21100	1RB#0	20.94	23.15	33	PASS
Band7	10MHz	64QAM	21100	1RB#24	21.19	23.4	33	PASS
Band7	10MHz	64QAM	21100	1RB#49	20.98	23.19	33	PASS
Band7	10MHz	64QAM	21100	50RB#0	19.85	22.06	33	PASS
Band7	10MHz	64QAM	21400	1RB#0	21.13	23.34	33	PASS
Band7	10MHz	64QAM	21400	1RB#24	21.21	23.42	33	PASS
Band7	10MHz	64QAM	21400	1RB#49	21.29	23.5	33	PASS
Band7	10MHz	64QAM	21400	50RB#0	19.99	22.2	33	PASS
Band7	10MHz	256QAM	20800	1RB#0	18.18	20.39	33	PASS
Band7	10MHz	256QAM	20800	1RB#24	18.3	20.51	33	PASS
Band7	10MHz	256QAM	20800	1RB#49	18.28	20.49	33	PASS
Band7	10MHz	256QAM	20800	50RB#0	18.17	20.38	33	PASS
Band7	10MHz	256QAM	21100	1RB#0	17.8	20.01	33	PASS
Band7	10MHz	256QAM	21100	1RB#24	17.88	20.09	33	PASS
Band7	10MHz	256QAM	21100	1RB#49	17.91	20.12	33	PASS



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Band7	10MHz	256QAM	21100	50RB#0	17.69	19.9	33	PASS
Band7	10MHz	256QAM	21400	1RB#0	17.96	20.17	33	PASS
Band7	10MHz	256QAM	21400	1RB#24	18.19	20.4	33	PASS
Band7	10MHz	256QAM	21400	1RB#49	18.12	20.33	33	PASS
Band7	10MHz	256QAM	21400	50RB#0	18.07	20.28	33	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.89	25.1	33	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.23	25.44	33	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.9	25.11	33	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.06	24.27	33	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.42	25.63	33	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.54	24.75	33	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.75	24.96	33	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.6	23.81	33	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.52	25.73	33	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.85	25.06	33	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.82	25.03	33	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.81	24.02	33	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.18	24.39	33	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.23	24.44	33	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.03	24.24	33	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.09	23.3	33	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.83	24.04	33	PASS
Band7	15MHz	16QAM	21100	1RB#38	21.65	23.86	33	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.62	23.83	33	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.69	22.9	33	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.67	23.88	33	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.89	24.1	33	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.94	24.15	33	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.81	23.02	33	PASS
Band7	15MHz	64QAM	20825	1RB#0	21.1	23.31	33	PASS
Band7	15MHz	64QAM	20825	1RB#38	21.22	23.43	33	PASS
Band7	15MHz	64QAM	20825	1RB#74	21.06	23.27	33	PASS



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Band7	15MHz	64QAM	20825	75RB#0	20.08	22.29	33	PASS
Band7	15MHz	64QAM	21100	1RB#0	20.83	23.04	33	PASS
Band7	15MHz	64QAM	21100	1RB#38	20.61	22.82	33	PASS
Band7	15MHz	64QAM	21100	1RB#74	20.71	22.92	33	PASS
Band7	15MHz	64QAM	21100	75RB#0	19.61	21.82	33	PASS
Band7	15MHz	64QAM	21375	1RB#0	20.76	22.97	33	PASS
Band7	15MHz	64QAM	21375	1RB#38	20.9	23.11	33	PASS
Band7	15MHz	64QAM	21375	1RB#74	21.09	23.3	33	PASS
Band7	15MHz	64QAM	21375	75RB#0	19.87	22.08	33	PASS
Band7	15MHz	256QAM	20825	1RB#0	17.98	20.19	33	PASS
Band7	15MHz	256QAM	20825	1RB#38	18.23	20.44	33	PASS
Band7	15MHz	256QAM	20825	1RB#74	18.08	20.29	33	PASS
Band7	15MHz	256QAM	20825	75RB#0	18.07	20.28	33	PASS
Band7	15MHz	256QAM	21100	1RB#0	17.83	20.04	33	PASS
Band7	15MHz	256QAM	21100	1RB#38	17.51	19.72	33	PASS
Band7	15MHz	256QAM	21100	1RB#74	17.72	19.93	33	PASS
Band7	15MHz	256QAM	21100	75RB#0	17.63	19.84	33	PASS
Band7	15MHz	256QAM	21375	1RB#0	17.7	19.91	33	PASS
Band7	15MHz	256QAM	21375	1RB#38	18.37	20.58	33	PASS
Band7	15MHz	256QAM	21375	1RB#74	17.88	20.09	33	PASS
Band7	15MHz	256QAM	21375	75RB#0	17.85	20.06	33	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.15	25.36	33	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.14	25.35	33	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.8	25.01	33	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.03	24.24	33	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.34	25.55	33	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.84	25.05	33	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.48	24.69	33	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.7	23.91	33	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.14	25.35	33	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.87	25.08	33	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.05	25.26	33	PASS



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Band7	20MHz	QPSK	21350	100RB#0	21.79	24	33	PASS
Band7	20MHz	16QAM	20850	1RB#0	21.86	24.07	33	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.17	24.38	33	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.98	24.19	33	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.07	23.28	33	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.08	24.29	33	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.65	23.86	33	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.56	23.77	33	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.65	22.86	33	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.74	23.95	33	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.78	23.99	33	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.85	24.06	33	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.82	23.03	33	PASS
Band7	20MHz	64QAM	20850	1RB#0	20.99	23.2	33	PASS
Band7	20MHz	64QAM	20850	1RB#49	21.15	23.36	33	PASS
Band7	20MHz	64QAM	20850	1RB#99	20.97	23.18	33	PASS
Band7	20MHz	64QAM	20850	100RB#0	20.04	22.25	33	PASS
Band7	20MHz	64QAM	21100	1RB#0	20.89	23.1	33	PASS
Band7	20MHz	64QAM	21100	1RB#49	20.96	23.17	33	PASS
Band7	20MHz	64QAM	21100	1RB#99	20.61	22.82	33	PASS
Band7	20MHz	64QAM	21100	100RB#0	19.61	21.82	33	PASS
Band7	20MHz	64QAM	21350	1RB#0	20.84	23.05	33	PASS
Band7	20MHz	64QAM	21350	1RB#49	21.39	23.6	33	PASS
Band7	20MHz	64QAM	21350	1RB#99	20.97	23.18	33	PASS
Band7	20MHz	64QAM	21350	100RB#0	19.77	21.98	33	PASS
Band7	20MHz	256QAM	20850	1RB#0	17.97	20.18	33	PASS
Band7	20MHz	256QAM	20850	1RB#49	18.08	20.29	33	PASS
Band7	20MHz	256QAM	20850	1RB#99	18.01	20.22	33	PASS
Band7	20MHz	256QAM	20850	100RB#0	18.05	20.26	33	PASS
Band7	20MHz	256QAM	21100	1RB#0	17.68	19.89	33	PASS
Band7	20MHz	256QAM	21100	1RB#49	17.73	19.94	33	PASS
Band7	20MHz	256QAM	21100	1RB#99	17.6	19.81	33	PASS



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Band7	20MHz	256QAM	21100	100RB#0	17.66	19.87	33	PASS
Band7	20MHz	256QAM	21350	1RB#0	17.65	19.86	33	PASS
Band7	20MHz	256QAM	21350	1RB#49	17.81	20.02	33	PASS
Band7	20MHz	256QAM	21350	1RB#99	18.04	20.25	33	PASS
Band7	20MHz	256QAM	21350	100RB#0	17.78	19.99	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	4.92	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.30	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.04	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.82	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.00	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.94	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.34	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.46	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.42	13	PASS
Band7	20MHz	256QAM	20850	100RB#0	6.72	13	PASS
Band7	20MHz	256QAM	21100	100RB#0	6.88	13	PASS
Band7	20MHz	256QAM	21350	100RB#0	6.88	13	PASS



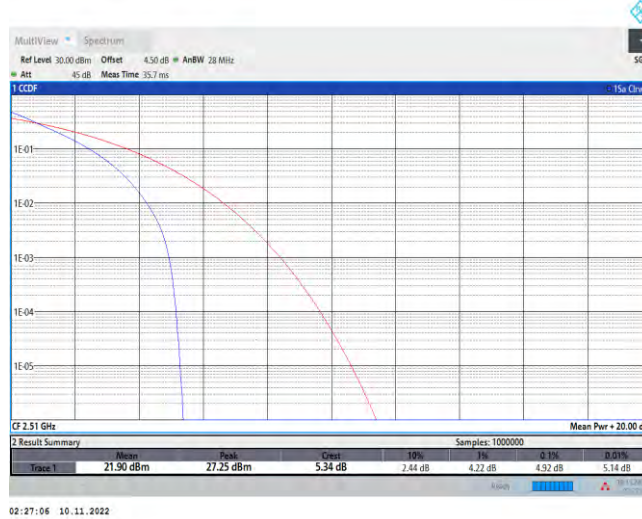
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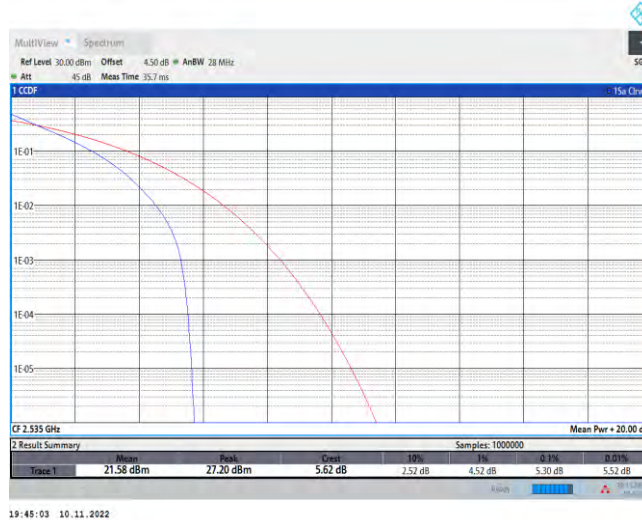
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Test Graphs

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



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



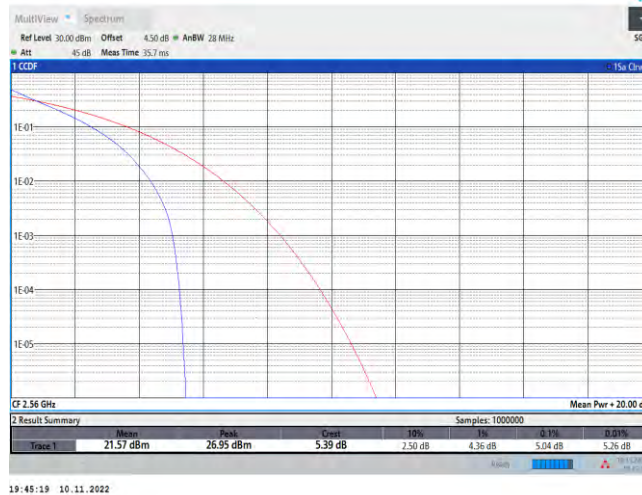
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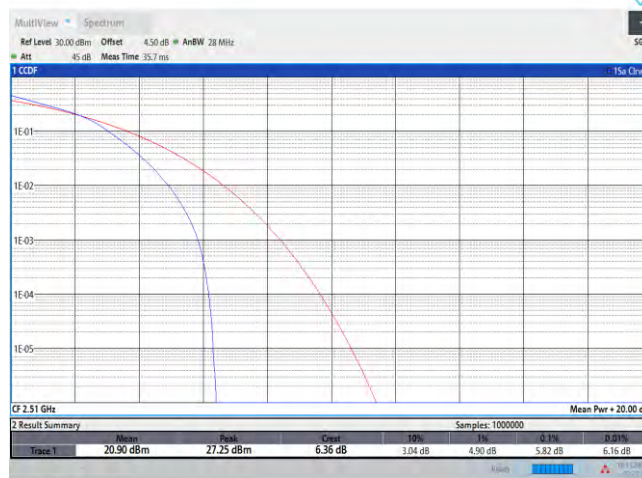
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Band7-20MHz-QPSK-21350-100RB#0



19:45:19 10.11.2022

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



02:27:22 10.11.2022

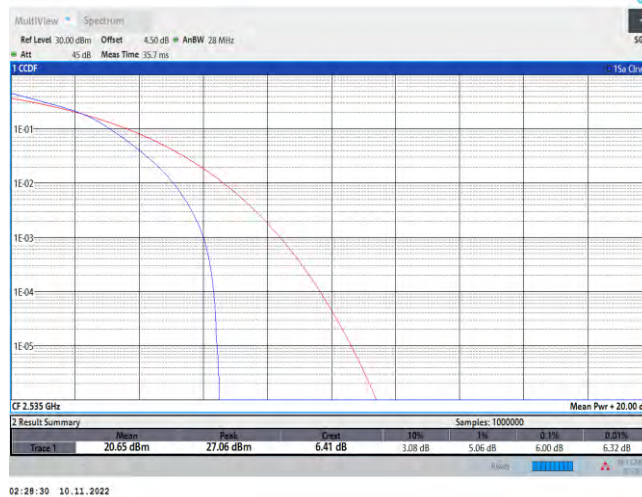


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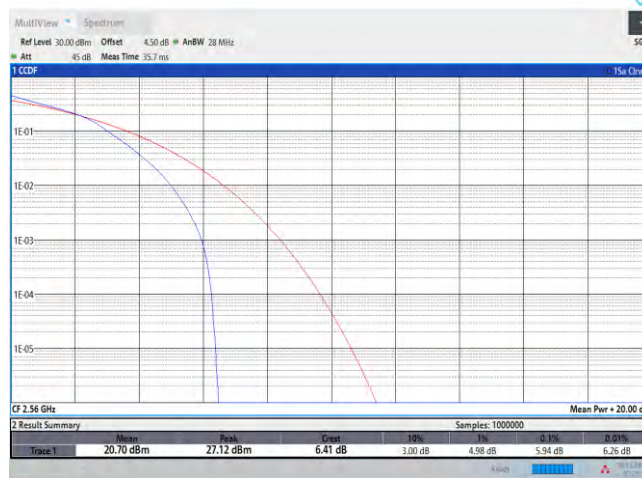
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Band7-20MHz-16QAM-21100-100RB#0



02:28:30 10.11.2022

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



02:29:39 10.11.2022



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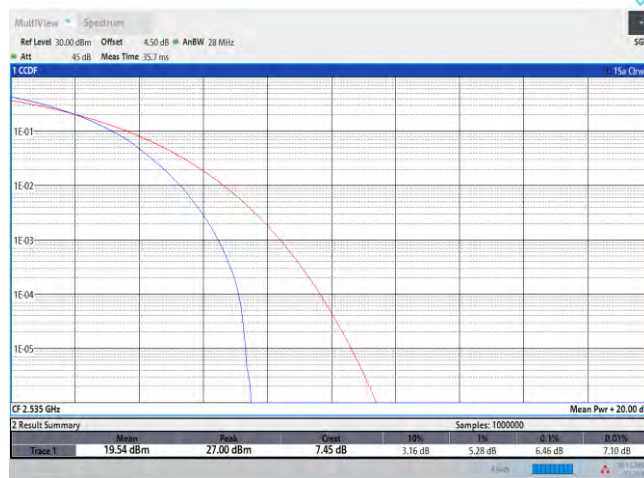
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Band7-20MHz-64QAM-20850-100RB#0



02:27:39 10.11.2022

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



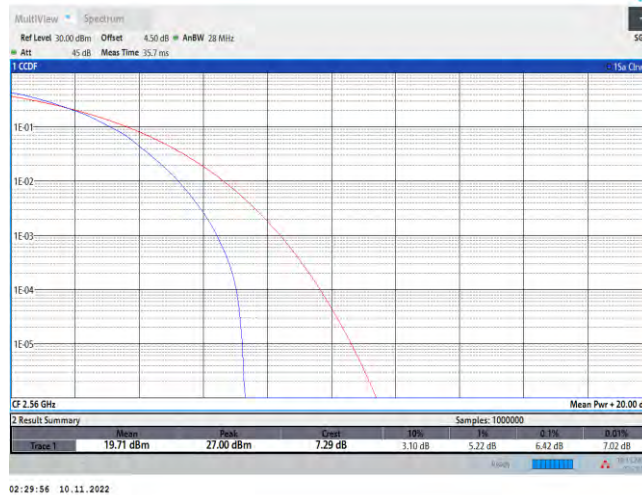
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Band7-20MHz-64QAM-21350-100RB#0



02:29:56 10.11.2022

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



02:27:55 10.11.2022

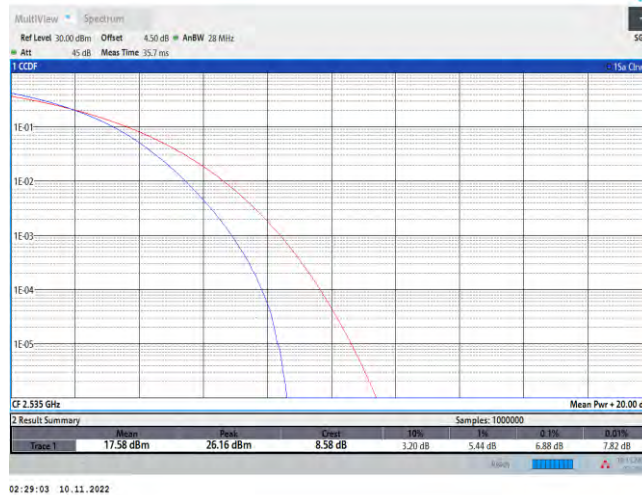


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Band7-20MHz-256QAM-21100-100RB#0



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Report No.: SEWM2206000070RG01

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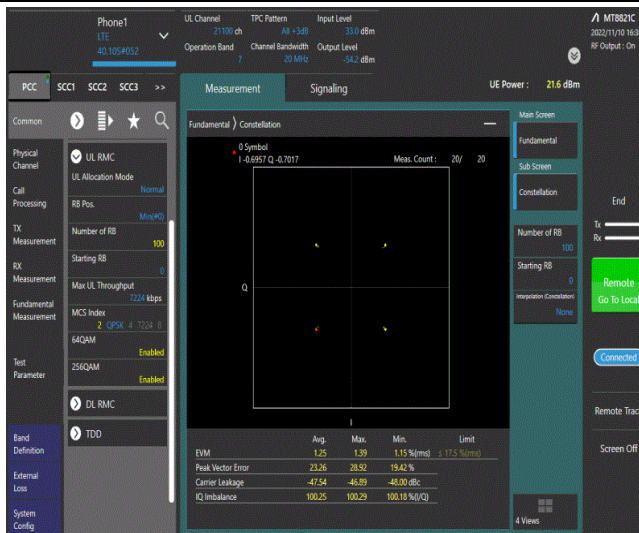
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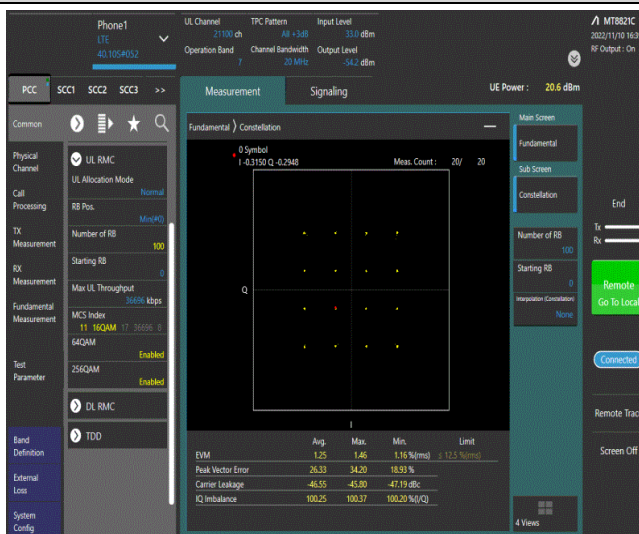
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Band7-20MHz-16QAM-21100-100RB#0

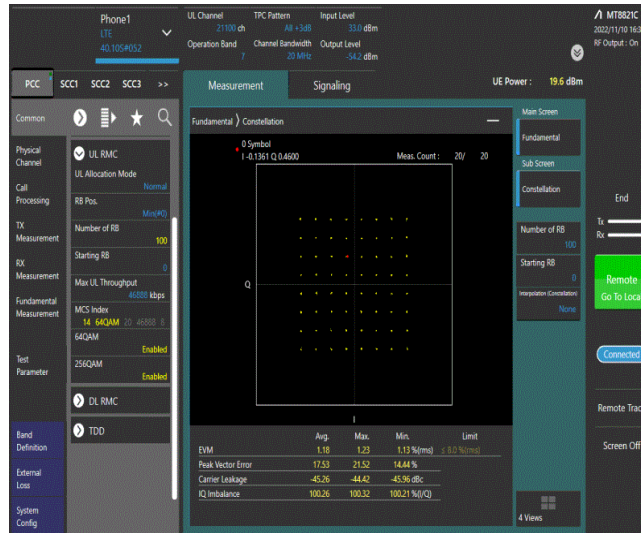


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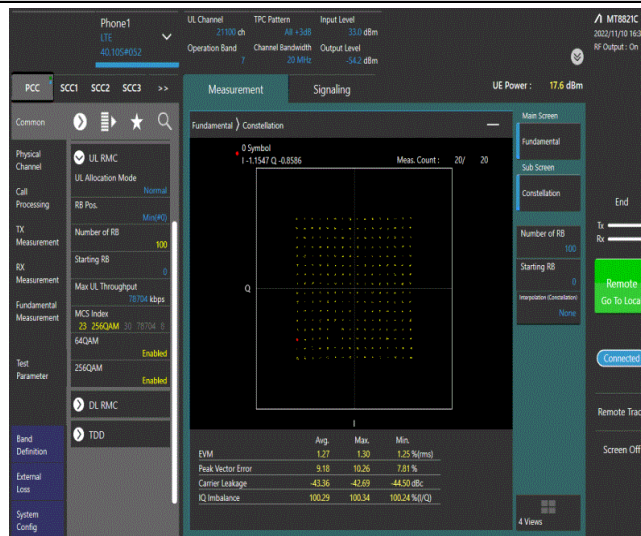
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Band7-20MHz-64QAM-21100-100RB#0



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	4.478	5.08	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.487	5.04	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	4.99	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.474	5.04	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.477	5.04	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.476	5.03	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.48	5.04	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.48	5.04	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.477	5.05	PASS
Band7	5MHz	256QAM	20775	25RB#0	4.479	5.03	PASS
Band7	5MHz	256QAM	21100	25RB#0	4.469	5.09	PASS
Band7	5MHz	256QAM	21425	25RB#0	4.476	5.04	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.936	9.80	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.95	9.94	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.938	9.82	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.928	9.72	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.935	9.90	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.933	9.78	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.923	9.84	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.94	9.88	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.941	9.84	PASS
Band7	10MHz	256QAM	20800	50RB#0	8.93	9.76	PASS
Band7	10MHz	256QAM	21100	50RB#0	8.957	9.80	PASS
Band7	10MHz	256QAM	21400	50RB#0	8.934	9.90	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.477	14.97	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.476	14.97	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.512	15.12	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.453	14.91	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.486	14.97	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.495	15.00	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.441	15.03	PASS



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Report No.: SEWM2206000070RG01

Rev.: 01

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Band7	15MHz	64QAM	21100	75RB#0	13.48	15.00	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.489	15.21	PASS
Band7	15MHz	256QAM	20825	75RB#0	13.445	14.97	PASS
Band7	15MHz	256QAM	21100	75RB#0	13.477	15.09	PASS
Band7	15MHz	256QAM	21375	75RB#0	13.482	14.94	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.863	19.60	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.913	19.80	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.921	19.64	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.882	19.56	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.94	19.52	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.916	19.72	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.864	19.68	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.907	19.52	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.904	19.68	PASS
Band7	20MHz	256QAM	20850	100RB#0	17.877	19.72	PASS
Band7	20MHz	256QAM	21100	100RB#0	17.917	19.64	PASS
Band7	20MHz	256QAM	21350	100RB#0	17.91	19.68	PASS



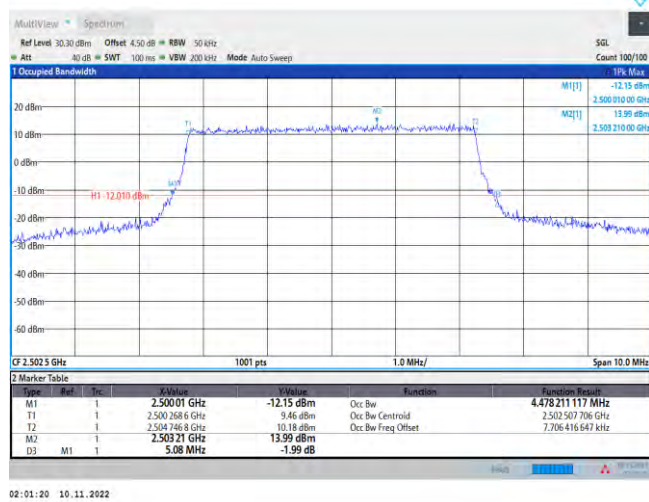
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Test Graphs

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



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

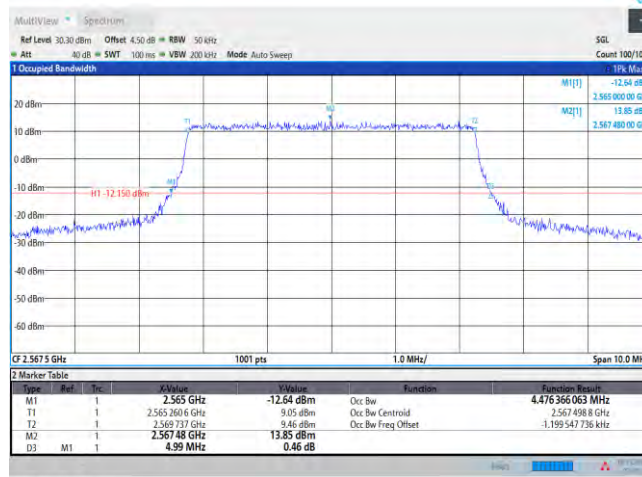


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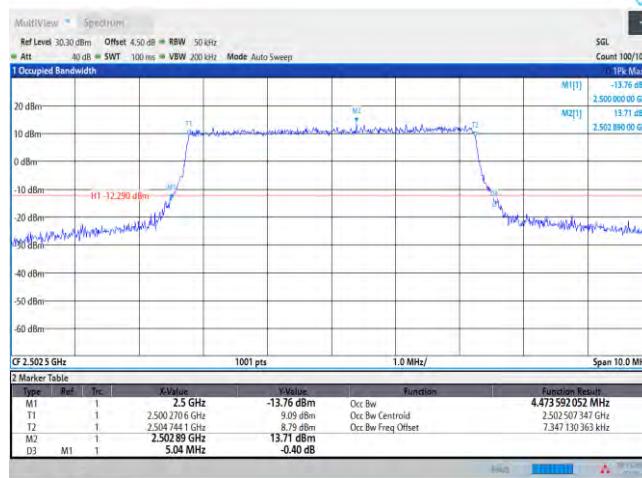
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Band7-5MHz-QPSK-21425-25RB#0



02:04:29 10.11.2022

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



02:01:43 10.11.2022



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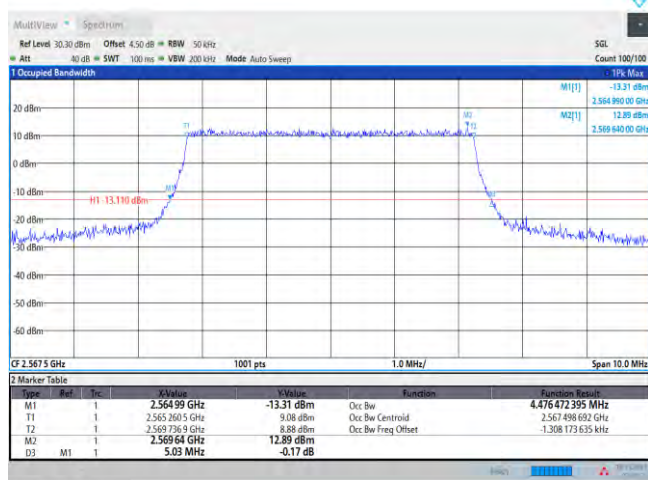
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Band7-5MHz-16QAM-21100-25RB#0



02:03:17 10.11.2022

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

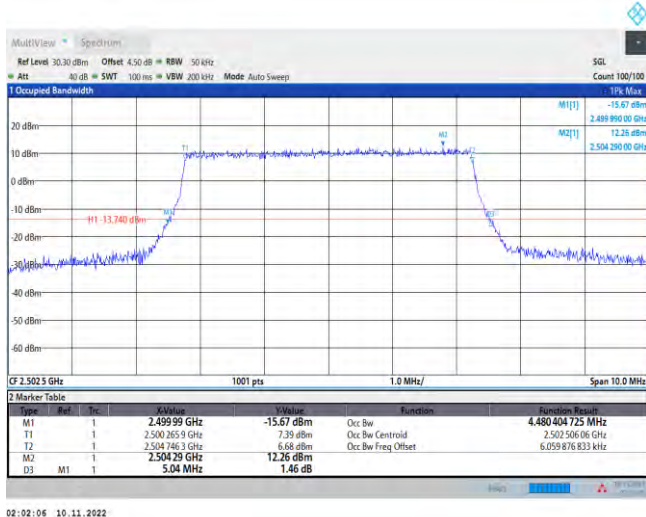


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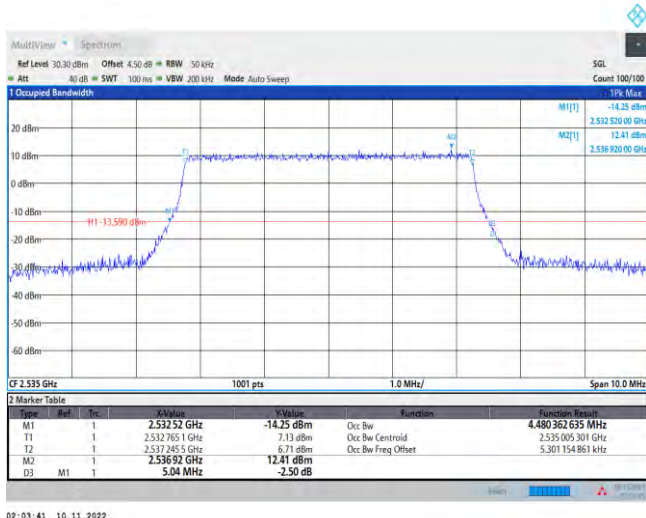


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Band7-5MHz-64QAM-20775-25RB#0



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

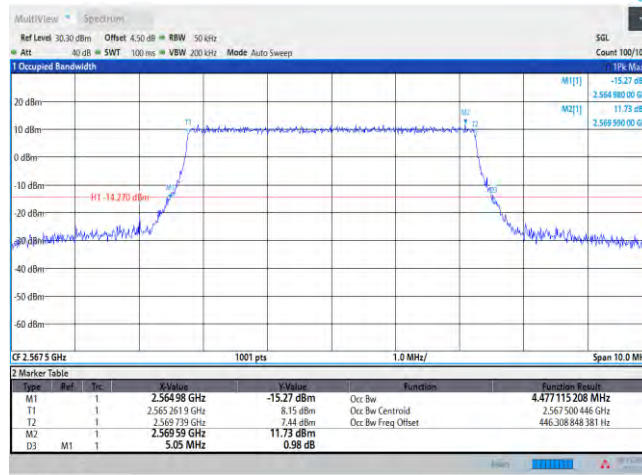


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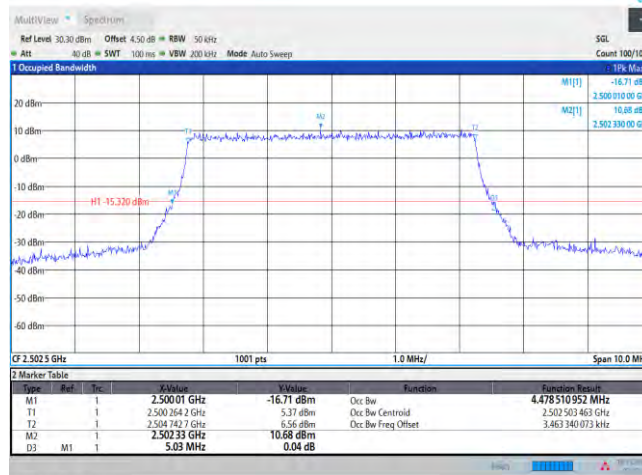
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Band7-5MHz-64QAM-21425-25RB#0



02:05:16 10.11.2022

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



02:02:29 10.11.2022

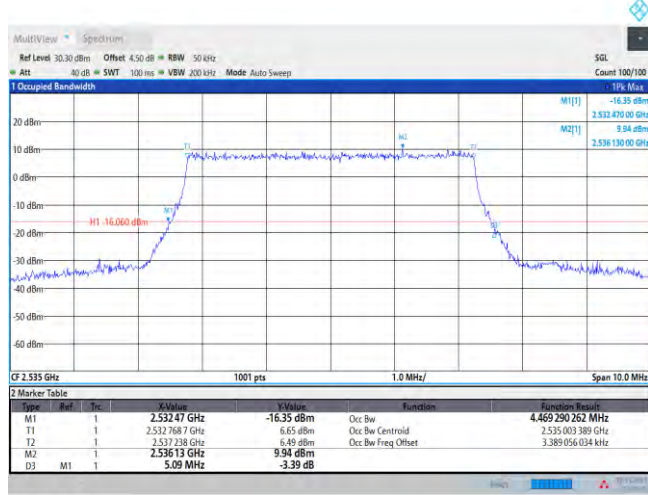


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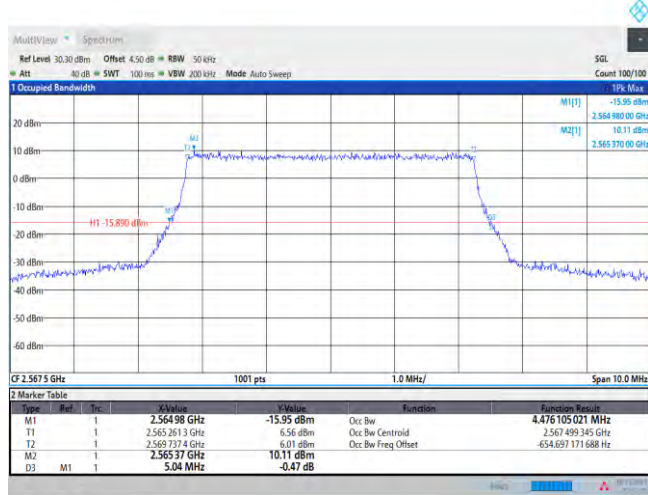
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Band7-5MHz-256QAM-21100-25RB#0



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



02:05:39 10.11.2022



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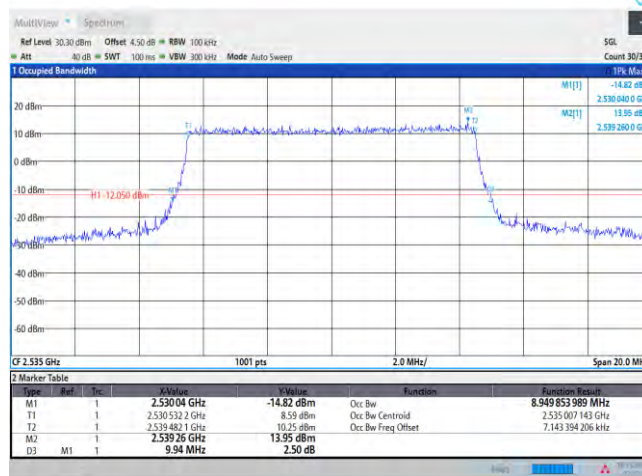
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Band7-10MHz-QPSK-20800-50RB#0



02:06:10 10.11.2022

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



02:07:17 10.11.2022

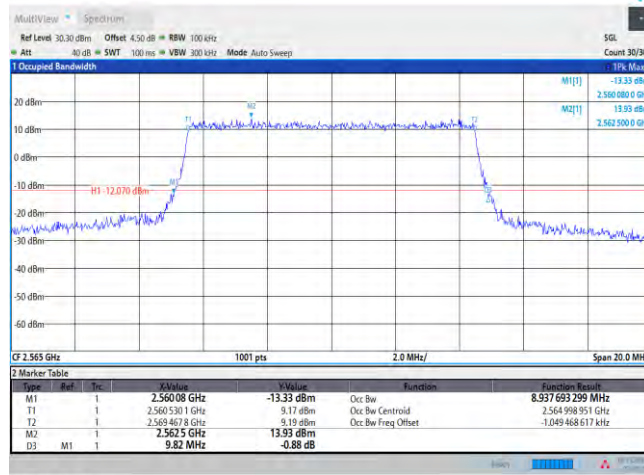


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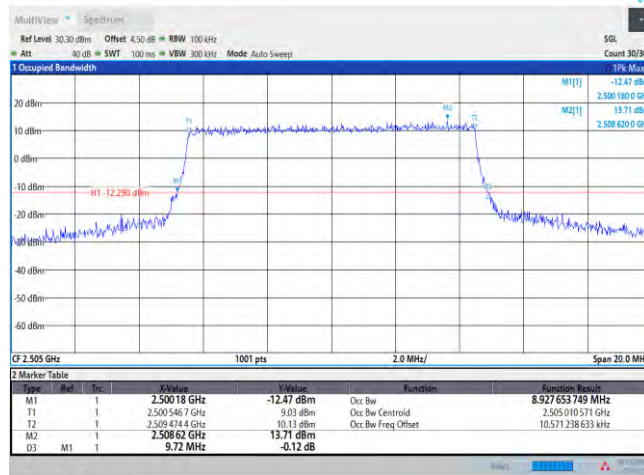
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Band7-10MHz-QPSK-21400-50RB#0



02:08:25 10.11.2022

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



02:06:26 10.11.2022

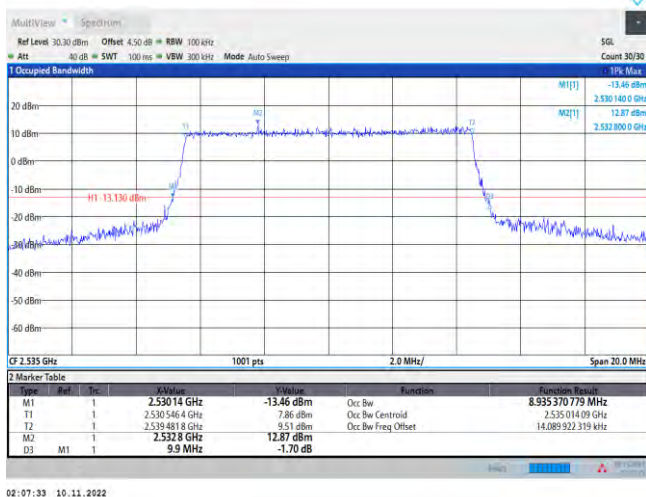


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Band7-10MHz-16QAM-21100-50RB#0



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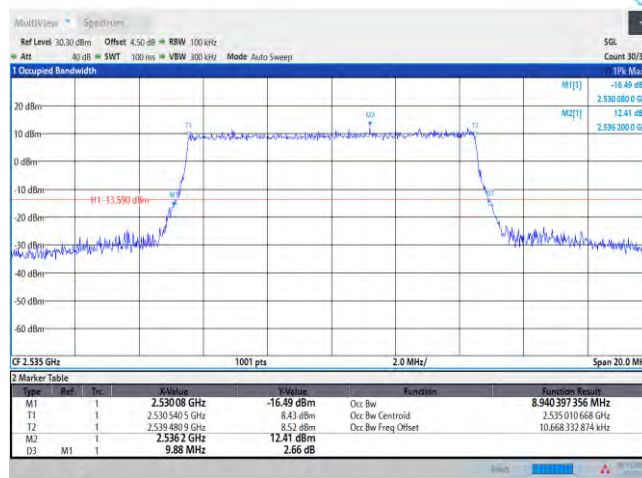
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Band7-10MHz-64QAM-20800-50RB#0



02:06:42 10.11.2022

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



02:07:49 10.11.2022



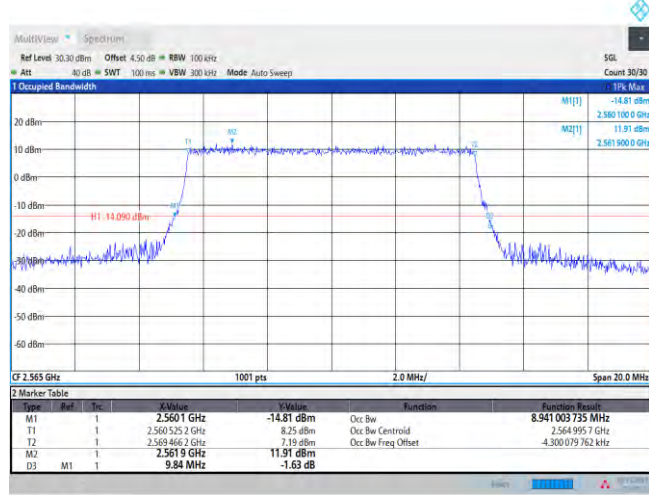
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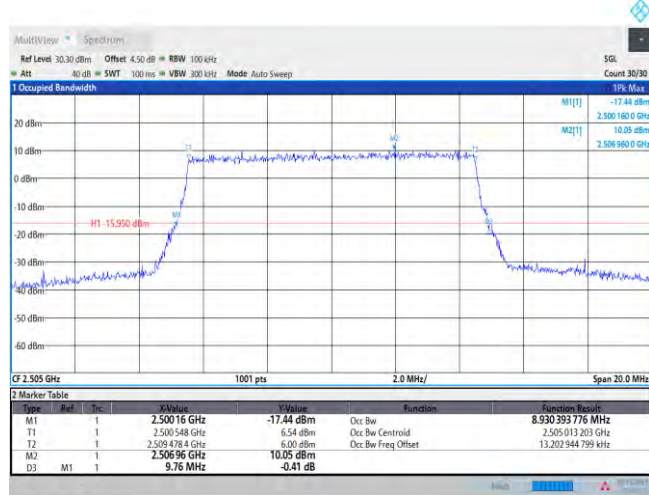
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Band7-10MHz-64QAM-21400-50RB#0



Band7-10MHz-256QAM-20800-50RB#0

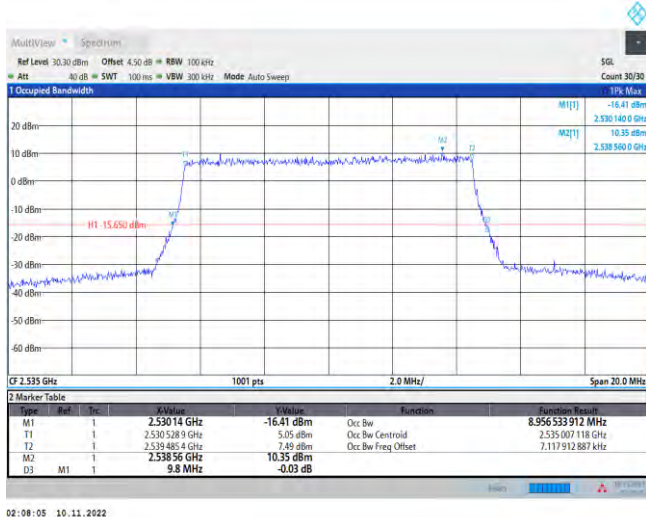


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Band7-10MHz-256QAM-21100-50RB#0



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Band7-10MHz-256QAM-21400-50RB#0



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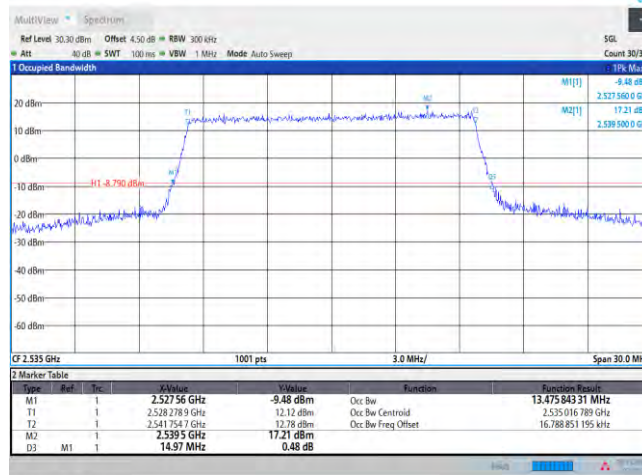
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Band7-15MHz-QPSK-20825-75RB#0



02:09:45 10.11.2022

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



02:10:51 10.11.2022



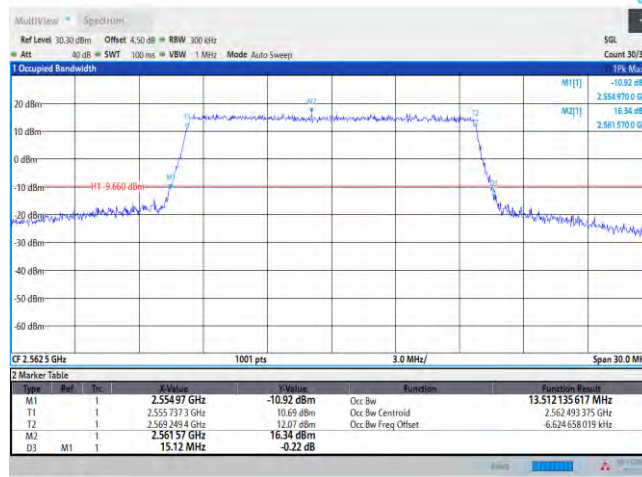
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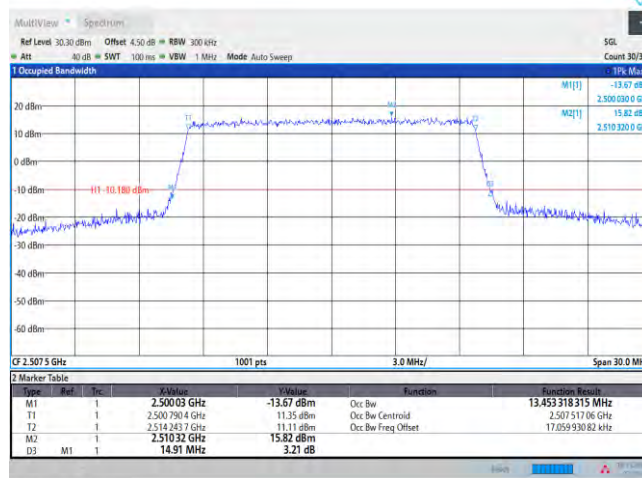
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Band7-15MHz-QPSK-21375-75RB#0



02:11:58 10.11.2022

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



02:19:01 10.11.2022



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Band7-15MHz-16QAM-21100-75RB#0



02:11:07 10.11.2022

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02:12:14 10.11.2022



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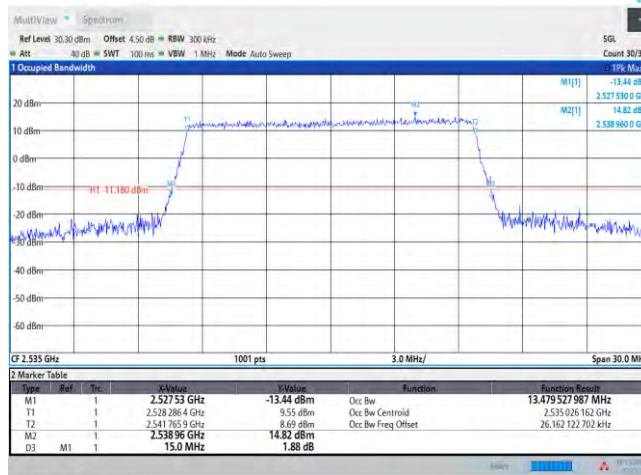
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Band7-15MHz-64QAM-21100-75RB#0



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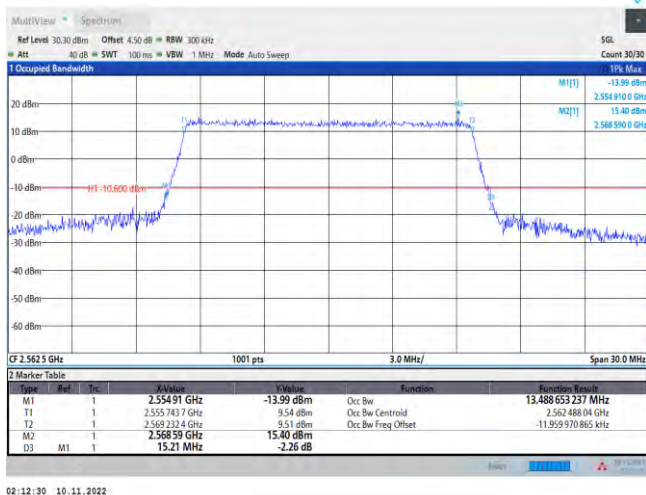


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Band7-15MHz-64QAM-21375-75RB#0



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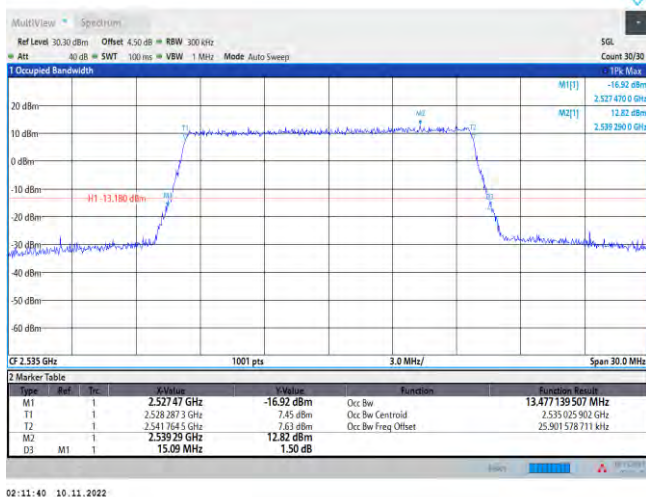


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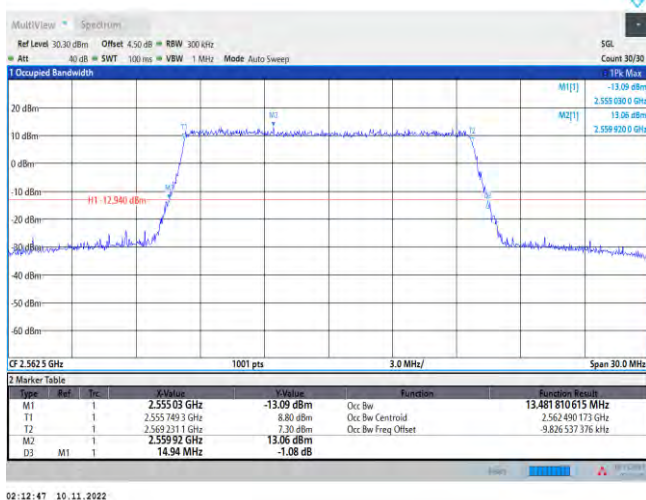


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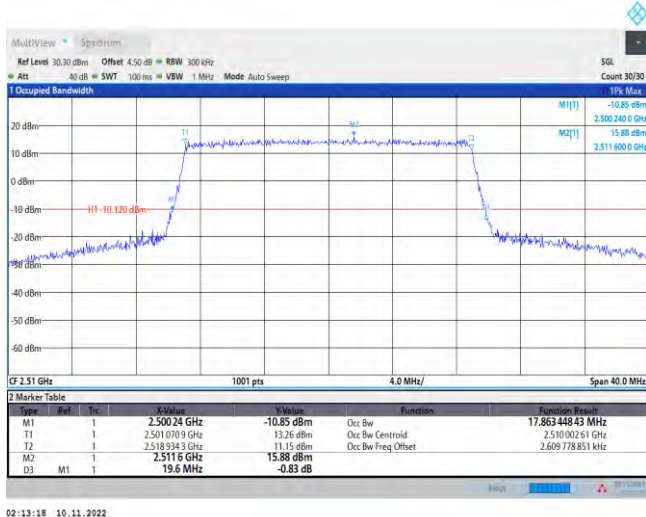


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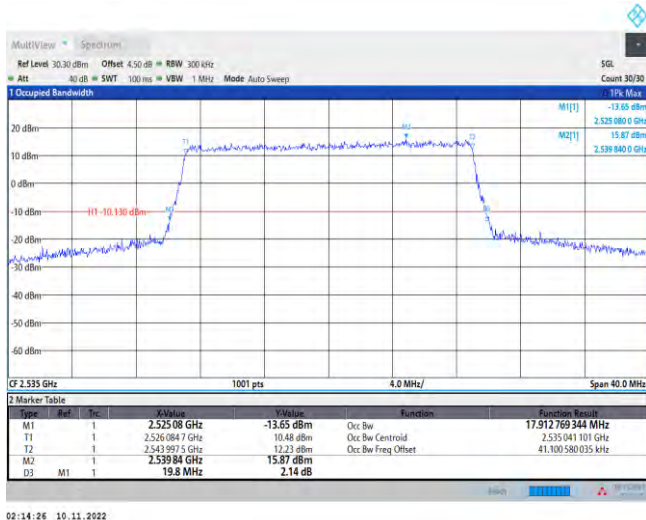
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Band7-20MHz-QPSK-20850-100RB#0



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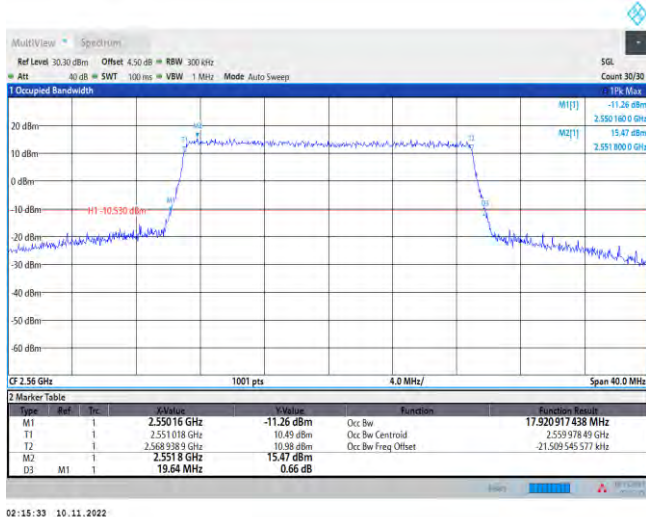


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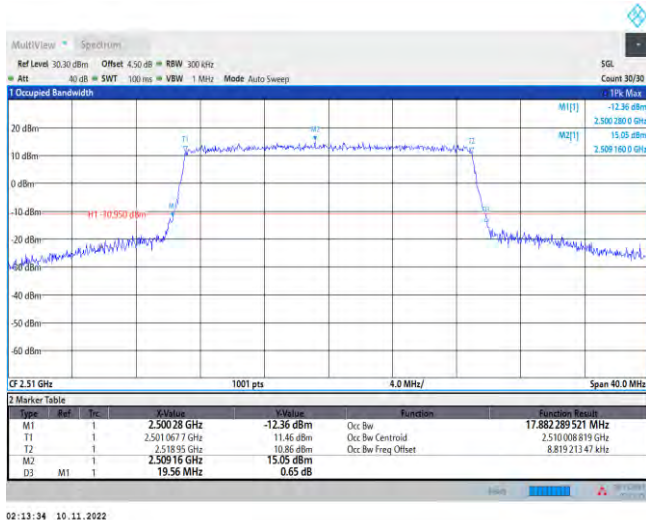
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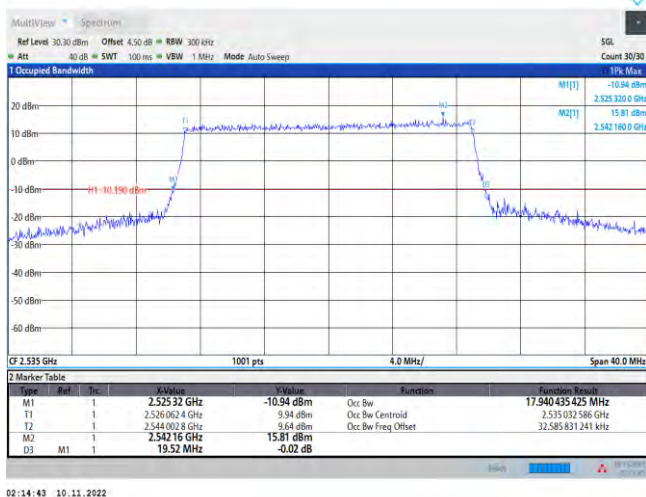


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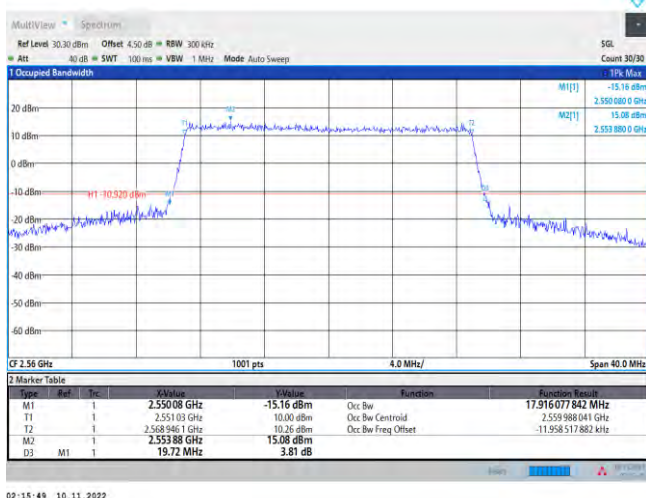
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Band7-20MHz-16QAM-21100-100RB#0



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

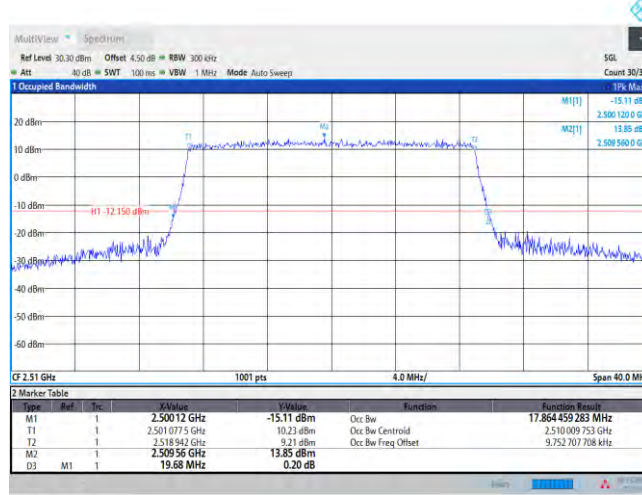


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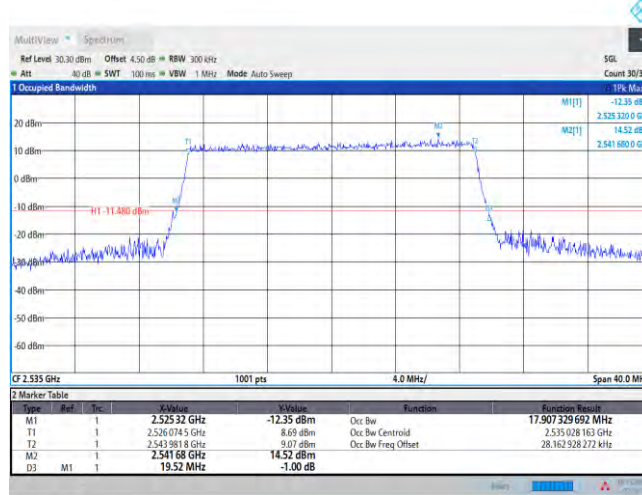
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Band7-20MHz-64QAM-20850-100RB#0



02:13:50 10.11.2022

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

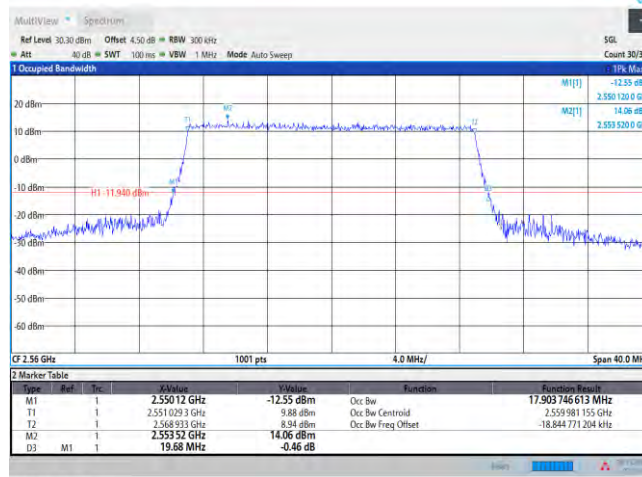


02:14:59 10.11.2022

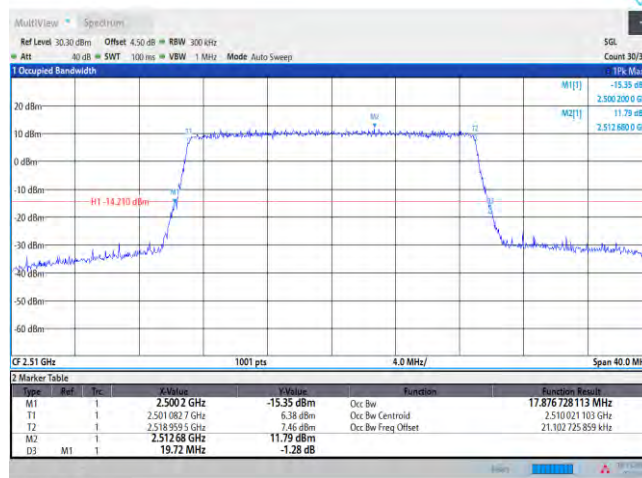


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Band7-20MHz-64QAM-21350-100RB#0

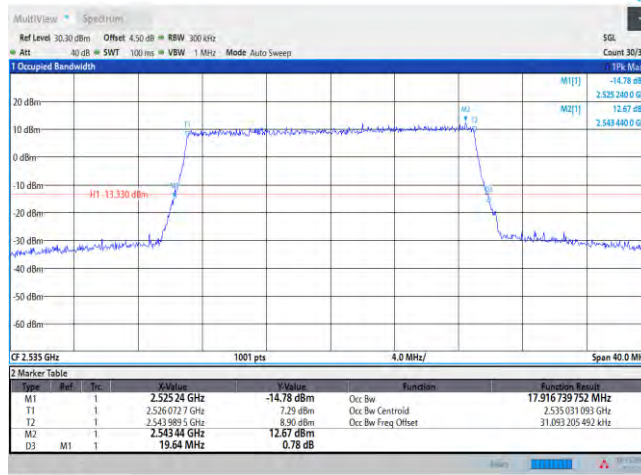


Band7-20MHz-256QAM-20850-100RB#0



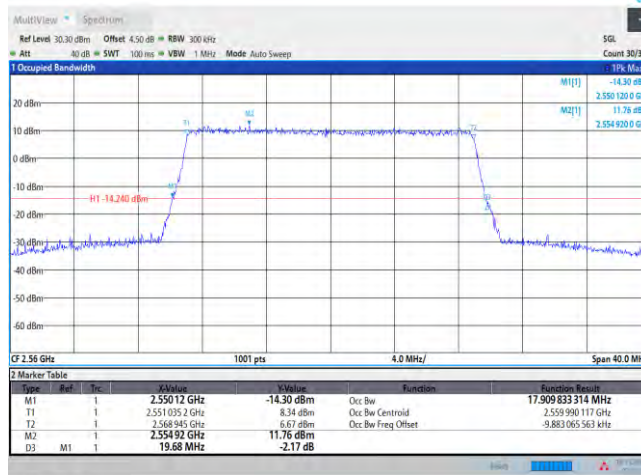
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Band7-20MHz-256QAM-21100-100RB#0



02:15:15 10.11.2022

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



02:16:22 10.11.2022



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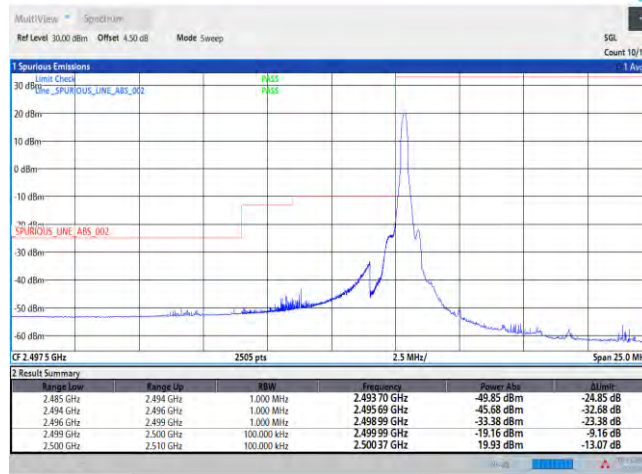
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Band Edge

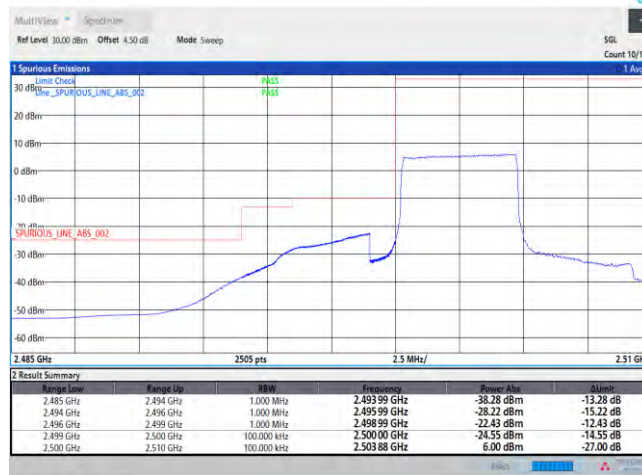
Test Graphs

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



02:17:10 10.11.2022

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



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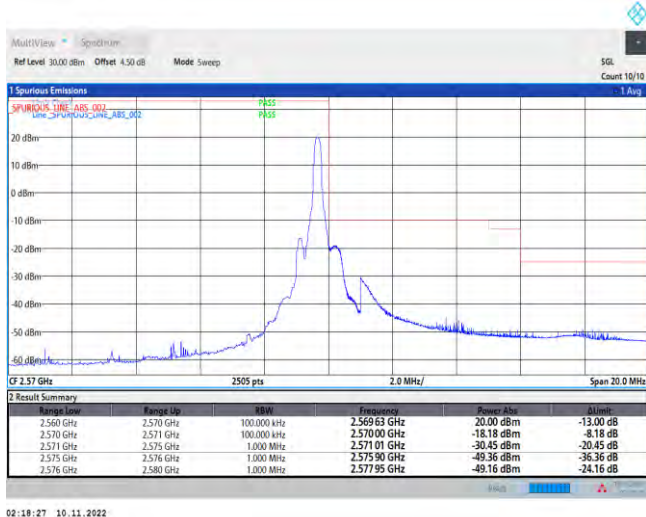


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Band7-5MHz-QPSK-21425-1RB#24



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

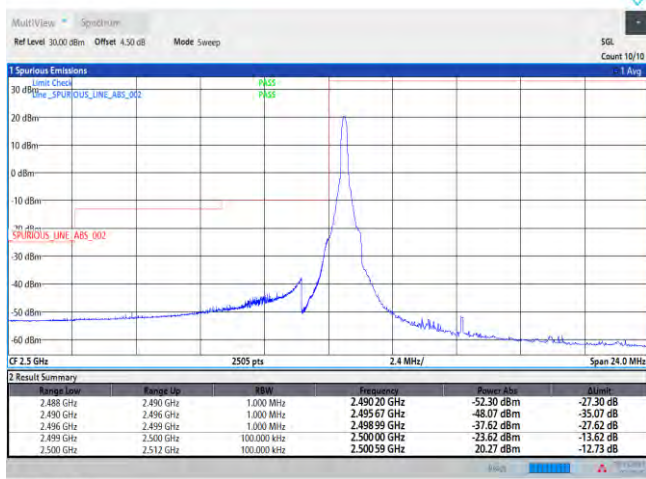


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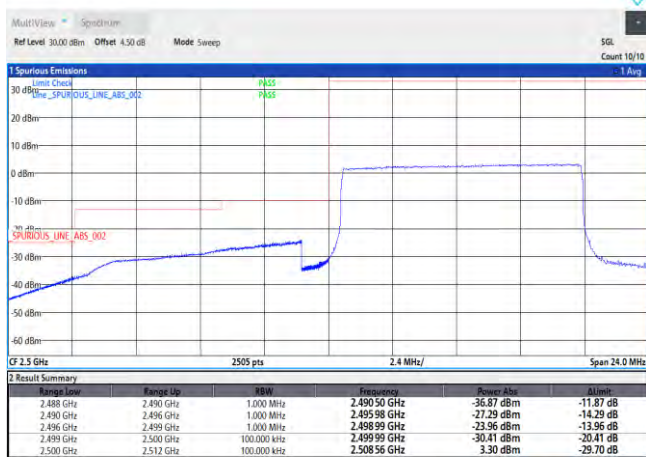
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Band7-10MHz-QPSK-20800-1RB#0



02:19:45 10.11.2022

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

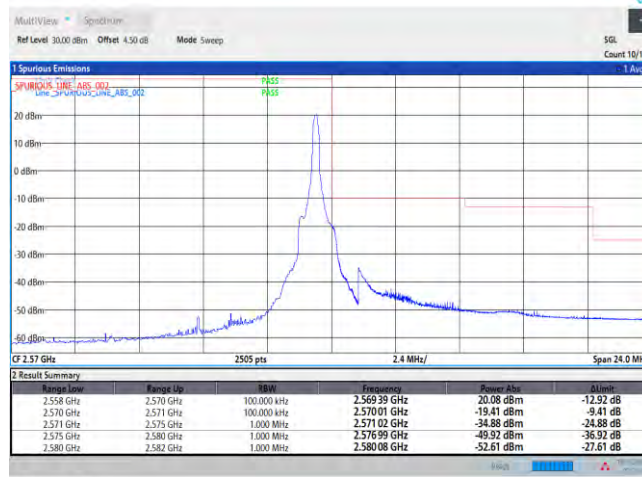


02:20:15 10.11.2022



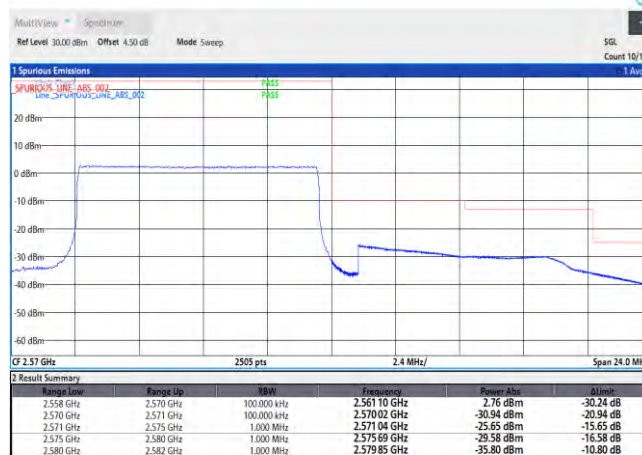
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Band7-10MHz-QPSK-21400-1RB#49



02:21:01 10.11.2022

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

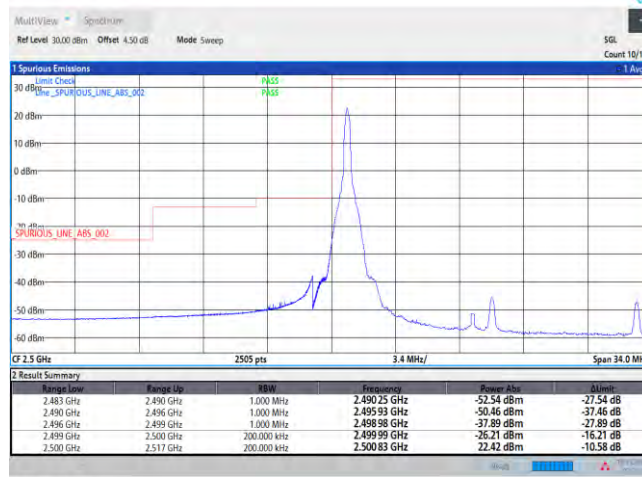


02:21:30 10.11.2022



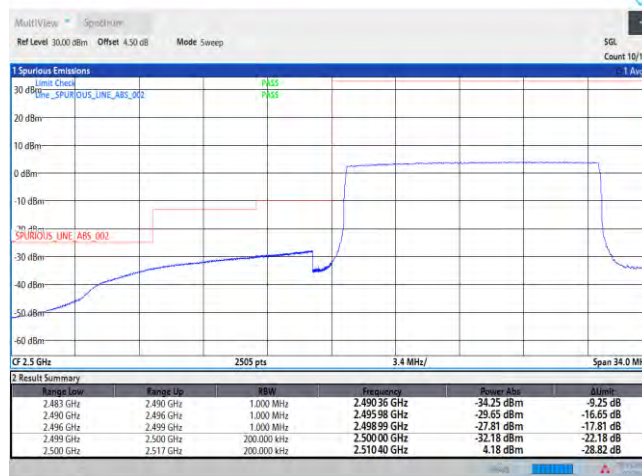
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Band7-15MHz-QPSK-20825-1RB#0



02:22:17 10.11.2022

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



02:22:46 10.11.2022

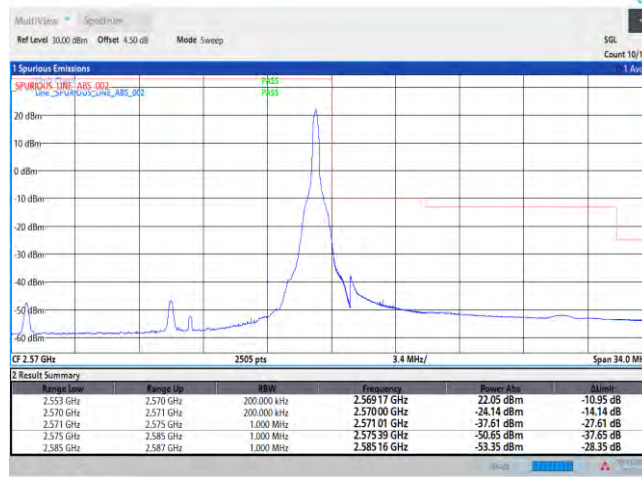


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Band7-15MHz-QPSK-21375-1RB#74



02:23:32 10.11.2022

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



02:24:02 10.11.2022

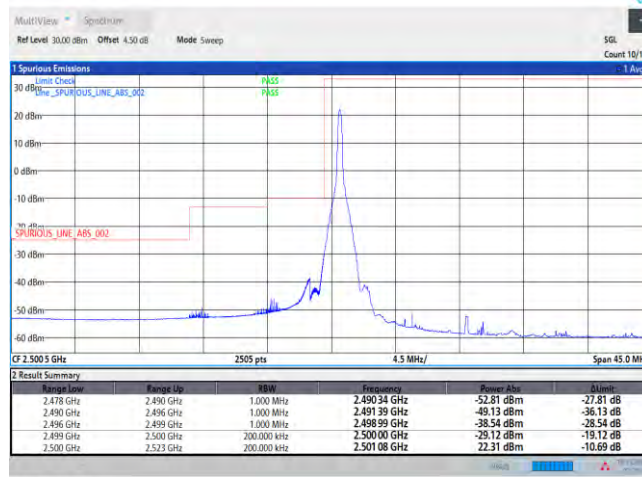


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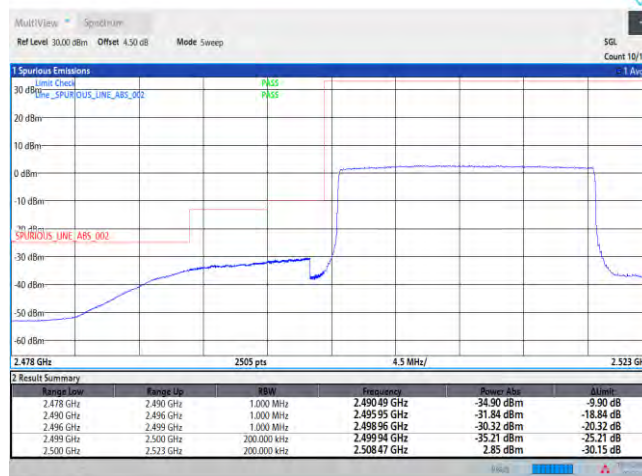
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Band7-20MHz-QPSK-20850-1RB#0



02:24:50 10.11.2022

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



02:25:19 10.11.2022

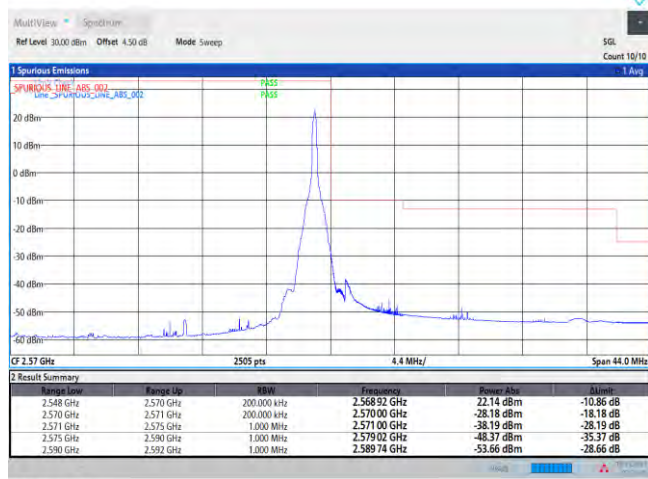


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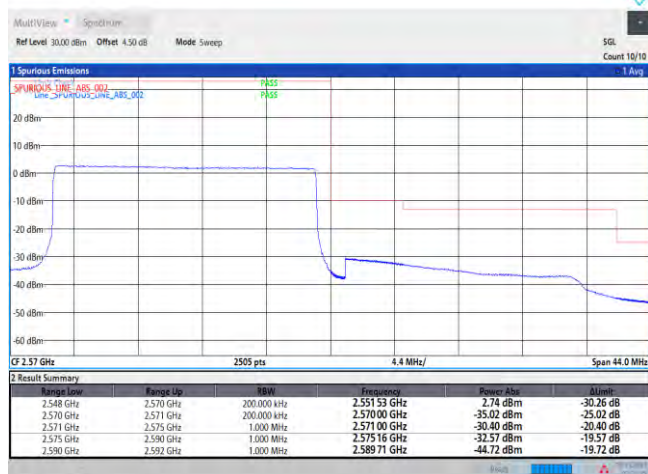
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Band7-20MHz-QPSK-21350-1RB#99



02:26:04 10.11.2022

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



02:26:34 10.11.2022

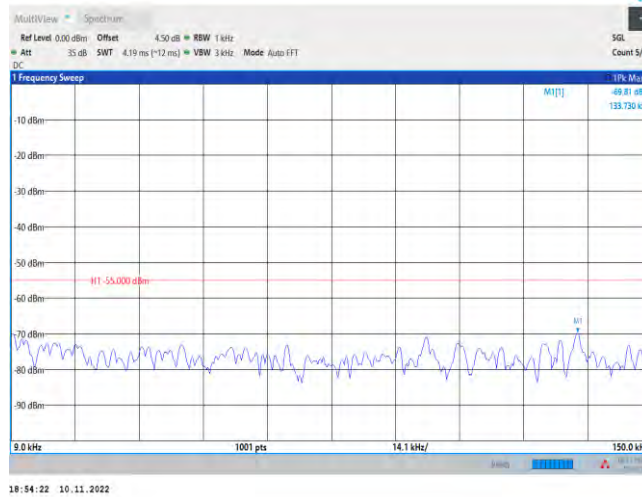


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Conducted Spurious Emission

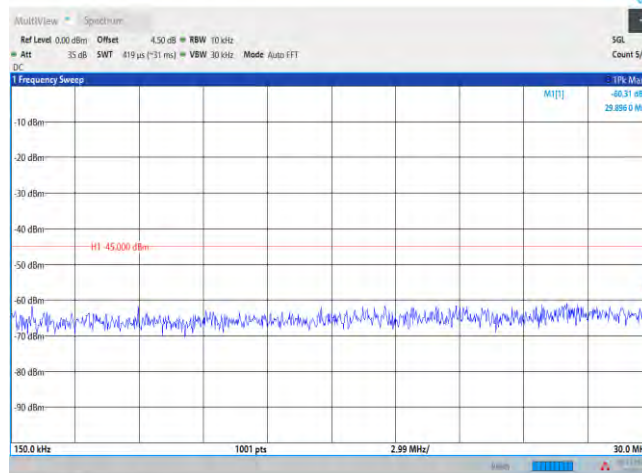
Test Graphs

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



18:54:22 10.11.2022

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

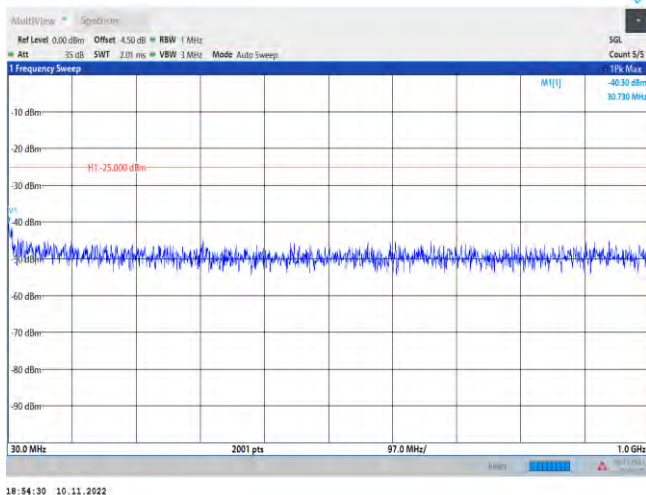


18:54:26 10.11.2022



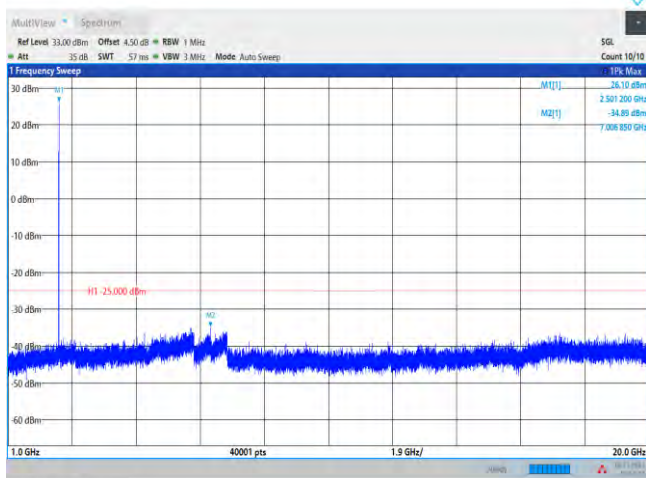
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Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz



18:54:30 10.11.2022

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

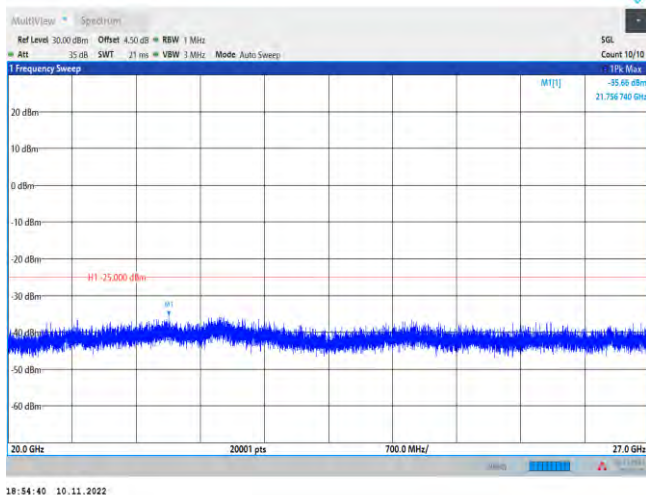


18:54:35 10.11.2022

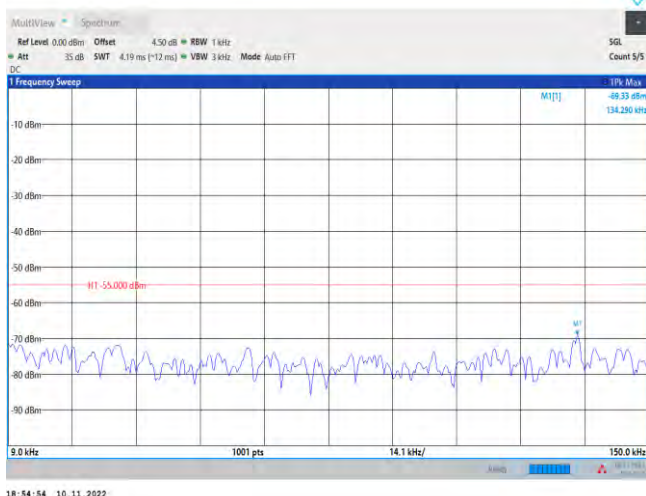


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Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz

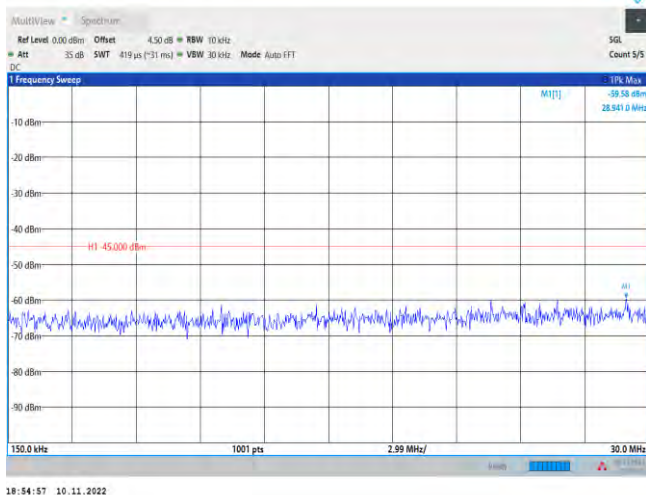


Band7-20MHz-QPSK-21100-1RB#0-Range1:0.009~0.15MHz

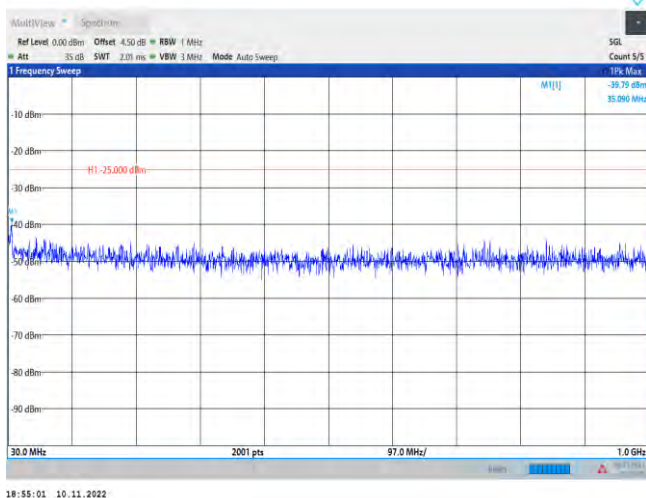


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Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz

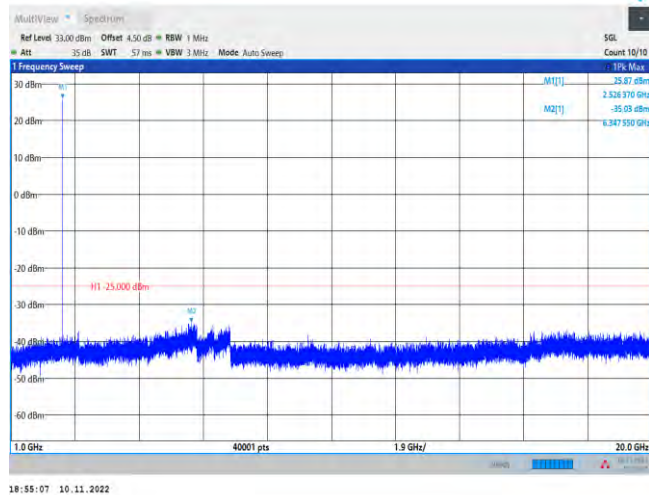


Band7-20MHz-QPSK-21100-1RB#0-Range3:30~1000MHz



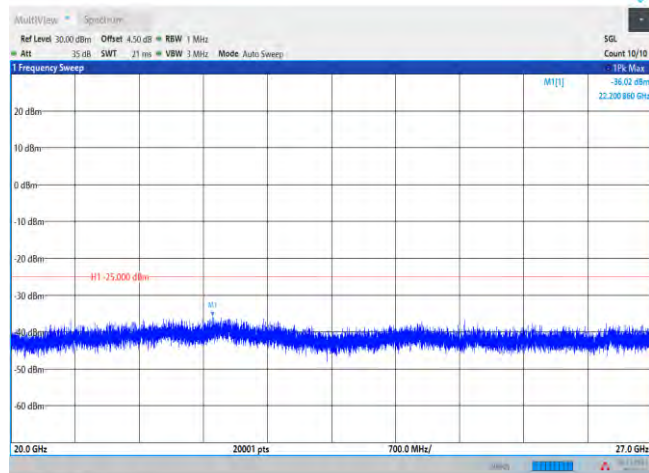
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Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz



18:55:07 10.11.2022

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



18:55:12 10.11.2022

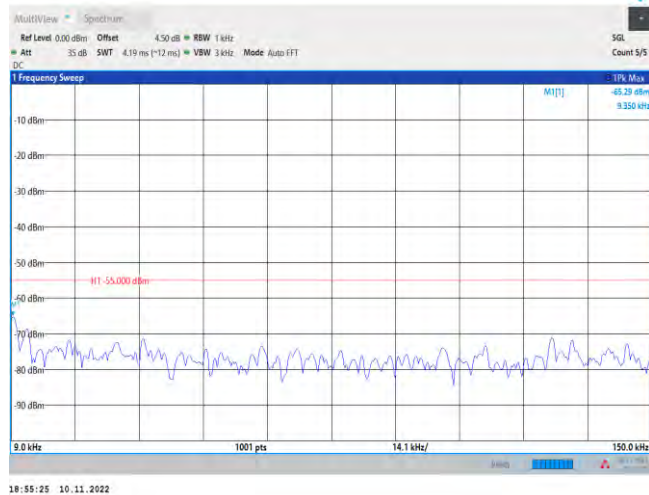


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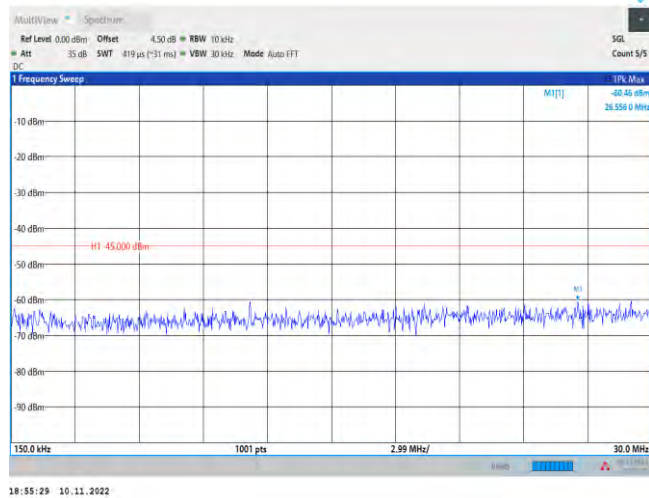
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Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



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

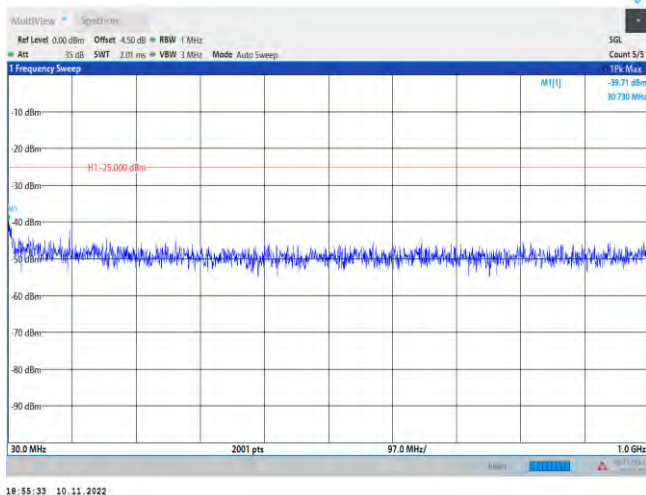


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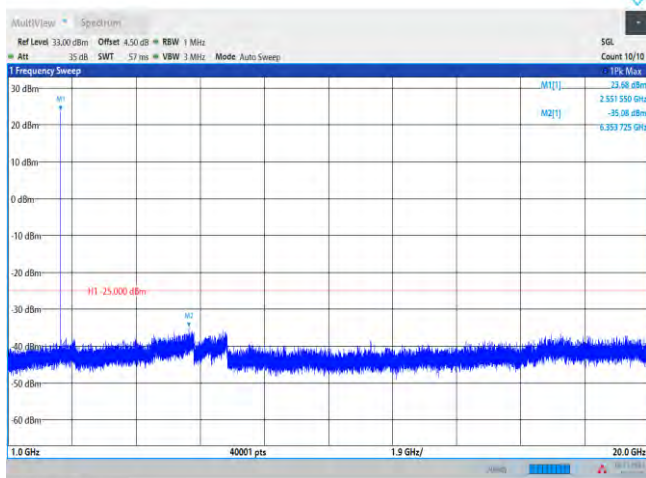
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



18:55:33 10.11.2022

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

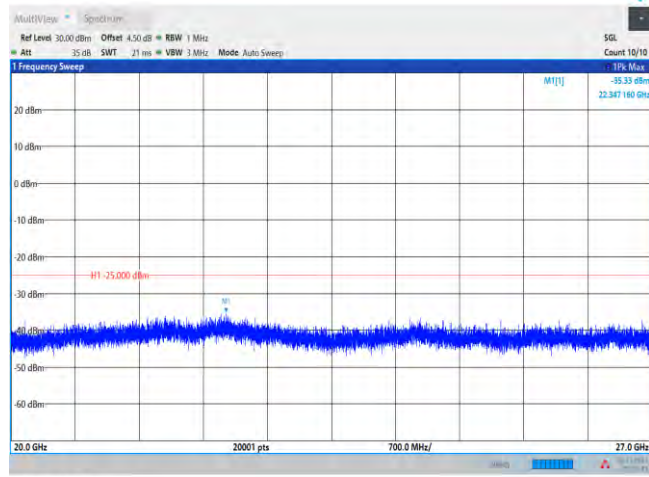


18:55:38 10.11.2022



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



18:55:43 10.11.2022



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Field Strength of Spurious Radiation

Test Band = LTE Band 7_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.18	69.75	-44.92	32.60	-37.83	-25.00	12.83	185	235	Horizontal
2	7503.27	61.25	-41.59	36.51	-39.09	-25.00	14.09	254	192	Horizontal
3	10004.36	53.92	-37.13	38.50	-39.97	-25.00	14.97	307	23	Horizontal
4	12505.45	50.44	-35.23	39.11	-40.94	-25.00	15.94	199	23	Horizontal
5	15006.54	31.23	-34.00	39.19	-58.84	-25.00	33.84	298	319	Horizontal
6	17507.63	29.78	-31.88	40.63	-56.73	-25.00	31.73	157	23	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	5002.18	76.21	-44.92	32.60	-31.37	-25.00	6.37	168	76	Vertical
2	7503.27	64.87	-41.59	36.51	-35.47	-25.00	10.47	288	96	Vertical
3	10004.36	59.60	-37.13	38.50	-34.29	-25.00	9.29	196	37	Vertical
4	12505.45	58.28	-35.23	39.11	-33.10	-25.00	8.10	258	162	Vertical
5	15006.54	33.39	-34.00	39.19	-56.68	-25.00	31.68	241	7	Vertical
6	17507.63	30.98	-31.88	40.63	-55.53	-25.00	30.53	317	178	Vertical



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Test Band = LTE Band 7_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.18	69.47	-44.60	32.60	-37.79	-25.00	12.79	174	318	Horizontal
2	7578.27	59.58	-41.33	36.66	-40.36	-25.00	15.36	142	194	Horizontal
3	10104.36	55.34	-36.80	38.61	-38.10	-25.00	13.10	265	31	Horizontal
4	12630.45	51.01	-34.72	39.23	-39.74	-25.00	14.74	295	151	Horizontal
5	15156.54	31.17	-33.29	39.00	-58.38	-25.00	33.38	284	69	Horizontal
6	17682.63	30.97	-31.11	41.33	-54.07	-25.00	29.07	143	111	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	79.23	-44.60	32.60	-28.03	-25.00	3.03	296	237	Vertical
2	7578	64.22	-41.33	36.66	-35.72	-25.00	10.72	265	108	Vertical
3	10104	59.94	-36.80	38.61	-33.51	-25.00	8.51	241	52	Vertical
4	12630.5	58.91	-34.72	39.23	-31.84	-25.00	6.84	142	156	Vertical
5	15156.54	31.81	-33.29	39.00	-57.74	-25.00	32.74	263	0	Vertical
6	17682.63	31.31	-31.11	41.33	-53.73	-25.00	28.73	221	0	Vertical



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Test Band = LTE Band 7_ TM1

Test Channel = High Channel

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	69.96	-44.29	32.60	-36.99	-25.00	11.99	300	320	Horizontal
2	7653.27	61.69	-41.30	36.81	-38.06	-25.00	13.06	263	215	Horizontal
3	10204.36	56.36	-36.56	38.72	-36.74	-25.00	11.74	196	27	Horizontal
4	12755.45	53.91	-35.10	39.36	-37.10	-25.00	12.10	157	152	Horizontal
5	15306.54	30.57	-33.87	38.80	-59.76	-25.00	34.76	265	300	Horizontal
6	17857.63	30.85	-30.96	42.03	-53.33	-25.00	28.33	314	132	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	77.86	-44.29	32.60	-29.09	-25.00	4.09	300	259	Vertical
2	7653.27	65.67	-41.30	36.81	-34.08	-25.00	9.08	204	133	Vertical
3	10204.36	60.68	-36.56	38.72	-32.42	-25.00	7.42	195	237	Vertical
4	12755.45	61.13	-35.10	39.36	-29.88	-25.00	4.88	307	152	Vertical
5	15306.54	31.73	-33.87	38.80	-58.60	-25.00	33.60	216	0	Vertical
6	17857.63	31.63	-30.96	42.03	-52.55	-25.00	27.55	288	0	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	-0.70	-0.000276	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-0.80	-0.000316	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	2.80	0.001105	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	1.10	0.000434	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-0.50	-0.000197	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	1.60	0.000631	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	0.20	0.000079	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-1.00	-0.000394	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-1.40	-0.000552	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	2.00	0.000789	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-0.20	-0.000079	PASS

---End of Attachment---



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