



# Appendix B

## E-UTRA Band 7



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# 1 Effective (Isotropic) Radiated Power

## 1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	23.56	22.16	33	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.36	21.96	33	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.94	21.54	33	PASS
Band7	5MHz	QPSK	20775	12RB#6	22.73	21.33	33	PASS
Band7	5MHz	QPSK	20775	12RB#0	23.35	21.95	33	PASS
Band7	5MHz	QPSK	20775	12RB#13	22.65	21.25	33	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.77	21.37	33	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.23	21.83	33	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.73	22.33	33	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.35	21.95	33	PASS
Band7	5MHz	QPSK	21100	12RB#0	22.58	21.18	33	PASS
Band7	5MHz	QPSK	21100	12RB#6	22.47	21.07	33	PASS
Band7	5MHz	QPSK	21100	12RB#13	22.36	20.96	33	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.43	21.03	33	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.04	21.64	33	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.28	21.88	33	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.88	21.48	33	PASS
Band7	5MHz	QPSK	21425	12RB#13	22.07	20.67	33	PASS
Band7	5MHz	QPSK	21425	12RB#6	22.08	20.68	33	PASS
Band7	5MHz	QPSK	21425	12RB#0	22.14	20.74	33	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.19	20.79	33	PASS
Band7	5MHz	64QAM	20775	1RB#0	22.21	20.81	33	PASS
Band7	5MHz	64QAM	20775	1RB#24	21.58	20.18	33	PASS
Band7	5MHz	64QAM	20775	1RB#12	22.02	20.62	33	PASS
Band7	5MHz	64QAM	20775	12RB#0	21.91	20.51	33	PASS
Band7	5MHz	64QAM	20775	12RB#6	20.98	19.58	33	PASS
Band7	5MHz	64QAM	20775	12RB#13	20.86	19.46	33	PASS



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Band7	5MHz	64QAM	20775	25RB#0	20.87	19.47	33	PASS
Band7	5MHz	64QAM	21100	1RB#0	21.74	20.34	33	PASS
Band7	5MHz	64QAM	21100	1RB#12	21.58	20.18	33	PASS
Band7	5MHz	64QAM	21100	1RB#24	21.36	19.96	33	PASS
Band7	5MHz	64QAM	21100	12RB#13	20.49	19.09	33	PASS
Band7	5MHz	64QAM	21100	12RB#6	20.52	19.12	33	PASS
Band7	5MHz	64QAM	21100	12RB#0	20.55	19.15	33	PASS
Band7	5MHz	64QAM	21100	25RB#0	20.46	19.06	33	PASS
Band7	5MHz	64QAM	21425	1RB#0	21.38	19.98	33	PASS
Band7	5MHz	64QAM	21425	1RB#12	21.16	19.76	33	PASS
Band7	5MHz	64QAM	21425	1RB#24	21.12	19.72	33	PASS
Band7	5MHz	64QAM	21425	12RB#0	20.19	18.79	33	PASS
Band7	5MHz	64QAM	21425	12RB#6	20.17	18.77	33	PASS
Band7	5MHz	64QAM	21425	12RB#13	20.15	18.75	33	PASS
Band7	5MHz	64QAM	21425	25RB#0	20.09	18.69	33	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.81	21.41	33	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.21	20.81	33	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.72	21.32	33	PASS
Band7	5MHz	16QAM	20775	12RB#13	21.76	20.36	33	PASS
Band7	5MHz	16QAM	20775	12RB#6	21.88	20.48	33	PASS
Band7	5MHz	16QAM	20775	12RB#0	21.82	20.42	33	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.84	20.44	33	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.74	21.34	33	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.78	21.38	33	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.61	21.21	33	PASS
Band7	5MHz	16QAM	21100	12RB#0	21.52	20.12	33	PASS
Band7	5MHz	16QAM	21100	12RB#6	21.48	20.08	33	PASS
Band7	5MHz	16QAM	21100	12RB#13	21.47	20.07	33	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.40	20.00	33	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.40	21.00	33	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.14	20.74	33	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.24	20.84	33	PASS
Band7	5MHz	16QAM	21425	12RB#0	21.25	19.85	33	PASS



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Band7	5MHz	16QAM	21425	12RB#6	21.11	19.71	33	PASS
Band7	5MHz	16QAM	21425	12RB#13	21.04	19.64	33	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.11	19.71	33	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.32	20.92	33	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.07	21.67	33	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.25	21.85	33	PASS
Band7	10MHz	QPSK	20800	25RB#12	22.77	21.37	33	PASS
Band7	10MHz	QPSK	20800	25RB#0	23.16	21.76	33	PASS
Band7	10MHz	QPSK	20800	25RB#25	22.75	21.35	33	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.91	21.51	33	PASS
Band7	10MHz	QPSK	21100	1RB#24	24.04	22.64	33	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.81	21.41	33	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.85	22.45	33	PASS
Band7	10MHz	QPSK	21100	25RB#25	22.27	20.87	33	PASS
Band7	10MHz	QPSK	21100	25RB#0	22.57	21.17	33	PASS
Band7	10MHz	QPSK	21100	25RB#12	22.50	21.10	33	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.57	21.17	33	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.65	21.25	33	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.40	22.00	33	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.46	22.06	33	PASS
Band7	10MHz	QPSK	21400	25RB#25	22.17	20.77	33	PASS
Band7	10MHz	QPSK	21400	25RB#0	22.26	20.86	33	PASS
Band7	10MHz	QPSK	21400	25RB#12	22.14	20.74	33	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.02	20.62	33	PASS
Band7	10MHz	64QAM	20800	1RB#24	21.67	20.27	33	PASS
Band7	10MHz	64QAM	20800	1RB#49	20.97	19.57	33	PASS
Band7	10MHz	64QAM	20800	1RB#0	21.80	20.40	33	PASS
Band7	10MHz	64QAM	20800	25RB#0	21.65	20.25	33	PASS
Band7	10MHz	64QAM	20800	25RB#12	20.83	19.43	33	PASS
Band7	10MHz	64QAM	20800	25RB#25	20.74	19.34	33	PASS
Band7	10MHz	64QAM	20800	50RB#0	20.88	19.48	33	PASS
Band7	10MHz	64QAM	21100	1RB#49	21.06	19.66	33	PASS
Band7	10MHz	64QAM	21100	1RB#0	21.77	20.37	33	PASS



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Band7	10MHz	64QAM	21100	1RB#24	21.96	20.56	33	PASS
Band7	10MHz	64QAM	21100	25RB#0	20.55	19.15	33	PASS
Band7	10MHz	64QAM	21100	25RB#12	20.48	19.08	33	PASS
Band7	10MHz	64QAM	21100	25RB#25	20.47	19.07	33	PASS
Band7	10MHz	64QAM	21100	50RB#0	20.55	19.15	33	PASS
Band7	10MHz	64QAM	21400	1RB#0	21.68	20.28	33	PASS
Band7	10MHz	64QAM	21400	1RB#49	20.69	19.29	33	PASS
Band7	10MHz	64QAM	21400	1RB#24	21.83	20.43	33	PASS
Band7	10MHz	64QAM	21400	25RB#25	20.03	18.63	33	PASS
Band7	10MHz	64QAM	21400	25RB#0	20.22	18.82	33	PASS
Band7	10MHz	64QAM	21400	25RB#12	20.14	18.74	33	PASS
Band7	10MHz	64QAM	21400	50RB#0	20.21	18.81	33	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.48	21.08	33	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.37	20.97	33	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.69	20.29	33	PASS
Band7	10MHz	16QAM	20800	25RB#12	21.83	20.43	33	PASS
Band7	10MHz	16QAM	20800	25RB#0	21.88	20.48	33	PASS
Band7	10MHz	16QAM	20800	25RB#25	21.79	20.39	33	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.81	20.41	33	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.99	21.59	33	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.56	21.16	33	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.76	21.36	33	PASS
Band7	10MHz	16QAM	21100	25RB#0	21.59	20.19	33	PASS
Band7	10MHz	16QAM	21100	25RB#25	21.38	19.98	33	PASS
Band7	10MHz	16QAM	21100	25RB#12	21.37	19.97	33	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.43	20.03	33	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.64	21.24	33	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.38	20.98	33	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.29	20.89	33	PASS
Band7	10MHz	16QAM	21400	25RB#0	21.18	19.78	33	PASS
Band7	10MHz	16QAM	21400	25RB#12	21.09	19.69	33	PASS
Band7	10MHz	16QAM	21400	25RB#25	21.06	19.66	33	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.11	19.71	33	PASS



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Band7	15MHz	QPSK	20825	1RB#74	22.70	21.30	33	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.89	21.49	33	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.39	21.99	33	PASS
Band7	15MHz	QPSK	20825	36RB#39	22.62	21.22	33	PASS
Band7	15MHz	QPSK	20825	36RB#18	22.76	21.36	33	PASS
Band7	15MHz	QPSK	20825	36RB#0	23.11	21.71	33	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.79	21.39	33	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.51	22.11	33	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.35	21.95	33	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.11	21.71	33	PASS
Band7	15MHz	QPSK	21100	36RB#0	22.61	21.21	33	PASS
Band7	15MHz	QPSK	21100	36RB#18	22.56	21.16	33	PASS
Band7	15MHz	QPSK	21100	36RB#39	22.33	20.93	33	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.48	21.08	33	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.25	21.85	33	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.09	21.69	33	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.87	21.47	33	PASS
Band7	15MHz	QPSK	21375	36RB#0	22.22	20.82	33	PASS
Band7	15MHz	QPSK	21375	36RB#18	22.04	20.64	33	PASS
Band7	15MHz	QPSK	21375	36RB#39	22.06	20.66	33	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.14	20.74	33	PASS
Band7	15MHz	64QAM	20825	1RB#74	21.18	19.78	33	PASS
Band7	15MHz	64QAM	20825	1RB#38	21.39	19.99	33	PASS
Band7	15MHz	64QAM	20825	1RB#0	21.96	20.56	33	PASS
Band7	15MHz	64QAM	20825	36RB#0	21.58	20.18	33	PASS
Band7	15MHz	64QAM	20825	36RB#18	20.82	19.42	33	PASS
Band7	15MHz	64QAM	20825	36RB#39	20.63	19.23	33	PASS
Band7	15MHz	64QAM	20825	75RB#0	20.83	19.43	33	PASS
Band7	15MHz	64QAM	21100	1RB#38	21.49	20.09	33	PASS
Band7	15MHz	64QAM	21100	1RB#74	21.15	19.75	33	PASS
Band7	15MHz	64QAM	21100	1RB#0	21.85	20.45	33	PASS
Band7	15MHz	64QAM	21100	36RB#39	20.41	19.01	33	PASS
Band7	15MHz	64QAM	21100	36RB#0	20.57	19.17	33	PASS



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Band7	15MHz	64QAM	21100	36RB#18	20.44	19.04	33	PASS
Band7	15MHz	64QAM	21100	75RB#0	20.39	18.99	33	PASS
Band7	15MHz	64QAM	21375	1RB#0	21.38	19.98	33	PASS
Band7	15MHz	64QAM	21375	1RB#38	21.13	19.73	33	PASS
Band7	15MHz	64QAM	21375	1RB#74	20.96	19.56	33	PASS
Band7	15MHz	64QAM	21375	36RB#18	20.16	18.76	33	PASS
Band7	15MHz	64QAM	21375	36RB#0	20.26	18.86	33	PASS
Band7	15MHz	64QAM	21375	36RB#39	20.08	18.68	33	PASS
Band7	15MHz	64QAM	21375	75RB#0	20.16	18.76	33	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.26	20.86	33	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.67	21.27	33	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.04	20.64	33	PASS
Band7	15MHz	16QAM	20825	36RB#0	21.74	20.34	33	PASS
Band7	15MHz	16QAM	20825	36RB#39	21.69	20.29	33	PASS
Band7	15MHz	16QAM	20825	36RB#18	21.80	20.40	33	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.77	20.37	33	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.60	21.20	33	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.40	21.00	33	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.72	21.32	33	PASS
Band7	15MHz	16QAM	21100	36RB#0	21.55	20.15	33	PASS
Band7	15MHz	16QAM	21100	36RB#18	21.42	20.02	33	PASS
Band7	15MHz	16QAM	21100	36RB#39	21.30	19.90	33	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.46	20.06	33	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.41	21.01	33	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.28	20.88	33	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.09	20.69	33	PASS
Band7	15MHz	16QAM	21375	36RB#0	21.26	19.86	33	PASS
Band7	15MHz	16QAM	21375	36RB#18	21.15	19.75	33	PASS
Band7	15MHz	16QAM	21375	36RB#39	21.18	19.78	33	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.01	19.61	33	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.33	21.93	33	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.72	21.32	33	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.91	21.51	33	PASS



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Band7	20MHz	QPSK	20850	50RB#25	22.74	21.34	33	PASS
Band7	20MHz	QPSK	20850	50RB#0	22.96	21.56	33	PASS
Band7	20MHz	QPSK	20850	50RB#50	22.70	21.30	33	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.78	21.38	33	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.88	21.48	33	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.50	22.10	33	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.72	22.32	33	PASS
Band7	20MHz	QPSK	21100	50RB#0	22.42	21.02	33	PASS
Band7	20MHz	QPSK	21100	50RB#25	22.40	21.00	33	PASS
Band7	20MHz	QPSK	21100	50RB#50	22.27	20.87	33	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.38	20.98	33	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.15	21.75	33	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.30	21.90	33	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.89	21.49	33	PASS
Band7	20MHz	QPSK	21350	50RB#25	22.15	20.75	33	PASS
Band7	20MHz	QPSK	21350	50RB#0	22.19	20.79	33	PASS
Band7	20MHz	QPSK	21350	50RB#50	22.03	20.63	33	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.15	20.75	33	PASS
Band7	20MHz	64QAM	20850	1RB#0	21.92	20.52	33	PASS
Band7	20MHz	64QAM	20850	1RB#49	21.36	19.96	33	PASS
Band7	20MHz	64QAM	20850	1RB#99	21.52	20.12	33	PASS
Band7	20MHz	64QAM	20850	50RB#50	20.71	19.31	33	PASS
Band7	20MHz	64QAM	20850	50RB#0	21.50	20.10	33	PASS
Band7	20MHz	64QAM	20850	50RB#25	20.83	19.43	33	PASS
Band7	20MHz	64QAM	20850	100RB#0	20.67	19.27	33	PASS
Band7	20MHz	64QAM	21100	1RB#0	21.63	20.23	33	PASS
Band7	20MHz	64QAM	21100	1RB#49	21.48	20.08	33	PASS
Band7	20MHz	64QAM	21100	1RB#99	21.14	19.74	33	PASS
Band7	20MHz	64QAM	21100	50RB#0	20.60	19.20	33	PASS
Band7	20MHz	64QAM	21100	50RB#25	20.42	19.02	33	PASS
Band7	20MHz	64QAM	21100	50RB#50	20.31	18.91	33	PASS
Band7	20MHz	64QAM	21100	100RB#0	20.37	18.97	33	PASS
Band7	20MHz	64QAM	21350	1RB#99	20.89	19.49	33	PASS



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Band7	20MHz	64QAM	21350	1RB#0	21.38	19.98	33	PASS
Band7	20MHz	64QAM	21350	1RB#49	21.17	19.77	33	PASS
Band7	20MHz	64QAM	21350	50RB#0	20.37	18.97	33	PASS
Band7	20MHz	64QAM	21350	50RB#50	20.08	18.68	33	PASS
Band7	20MHz	64QAM	21350	50RB#25	20.09	18.69	33	PASS
Band7	20MHz	64QAM	21350	100RB#0	20.21	18.81	33	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.72	21.32	33	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.97	20.57	33	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.28	20.88	33	PASS
Band7	20MHz	16QAM	20850	50RB#0	21.83	20.43	33	PASS
Band7	20MHz	16QAM	20850	50RB#25	21.75	20.35	33	PASS
Band7	20MHz	16QAM	20850	50RB#50	21.67	20.27	33	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.67	20.27	33	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.77	21.37	33	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.39	20.99	33	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.45	21.05	33	PASS
Band7	20MHz	16QAM	21100	50RB#0	21.45	20.05	33	PASS
Band7	20MHz	16QAM	21100	50RB#25	21.39	19.99	33	PASS
Band7	20MHz	16QAM	21100	50RB#50	21.21	19.81	33	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.45	20.05	33	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.56	21.16	33	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.05	20.65	33	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.26	20.86	33	PASS
Band7	20MHz	16QAM	21350	50RB#50	20.94	19.54	33	PASS
Band7	20MHz	16QAM	21350	50RB#25	20.98	19.58	33	PASS
Band7	20MHz	16QAM	21350	50RB#0	21.22	19.82	33	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.13	19.73	33	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



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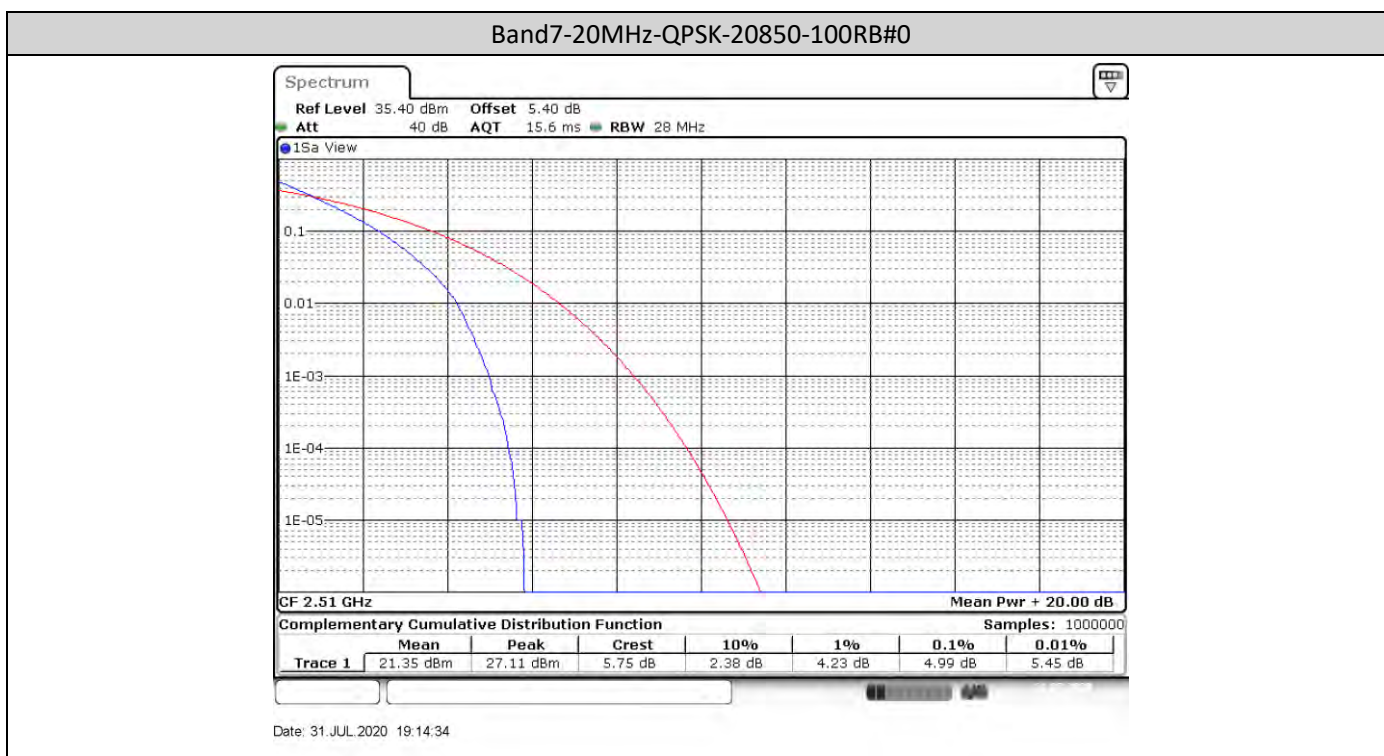


## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	4.99	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.04	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	4.93	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	5.91	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	5.97	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	5.86	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.88	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.97	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.83	13	PASS

### 2.2. Test Plots



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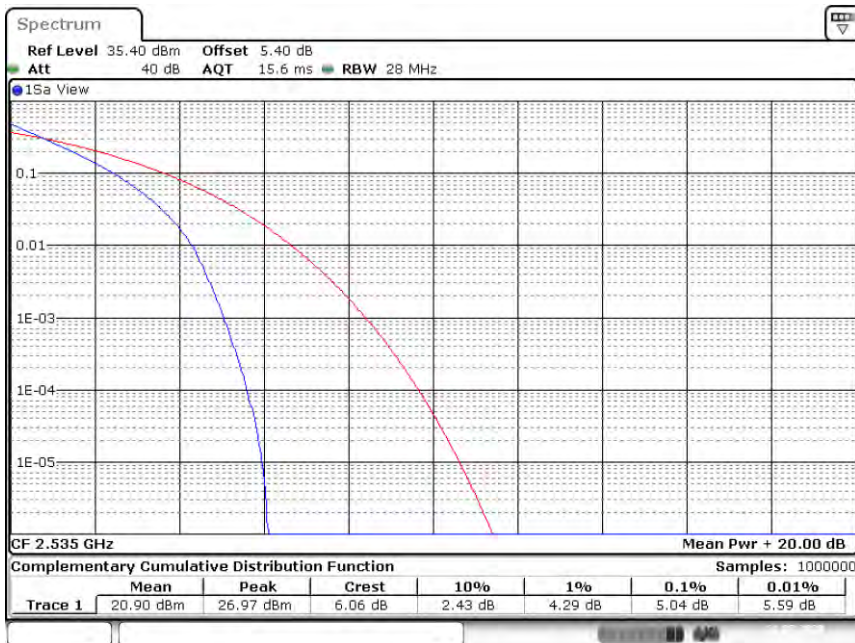
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Band7-20MHz-QPSK-21100-100RB#0



Date: 31 JUL 2020 19:14:57

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



Date: 31 JUL 2020 19:15:20



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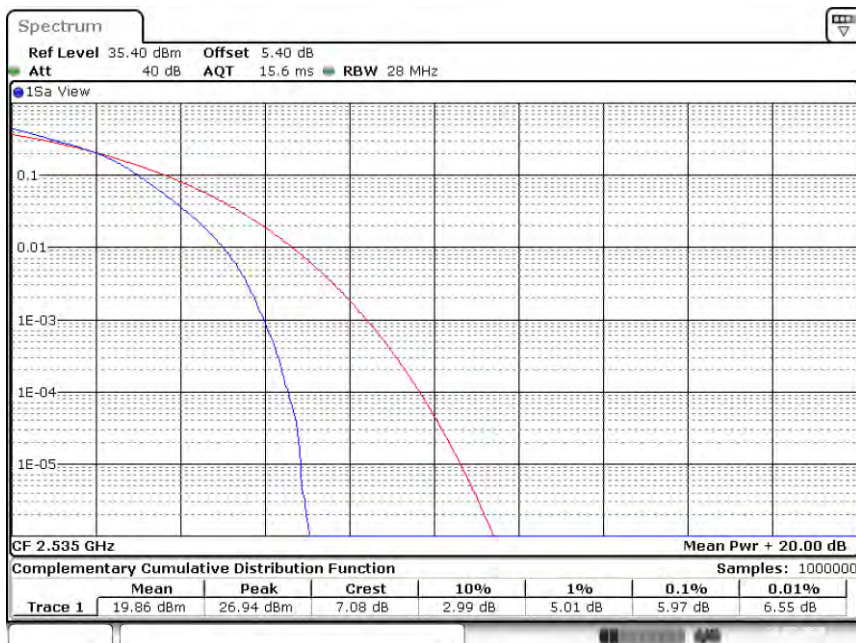


Band7-20MHz-64QAM-20850-100RB#0



Date: 31 JUL 2020 19:27:37

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



Date: 31 JUL 2020 19:27:48



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



Date: 31 JUL 2020 19:28:00

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



Date: 31 JUL 2020 19:14:46

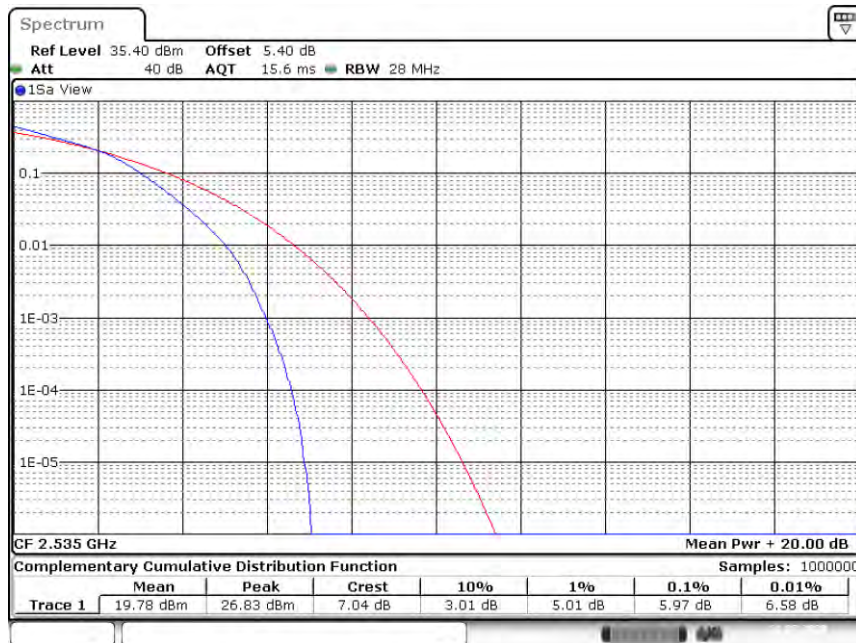


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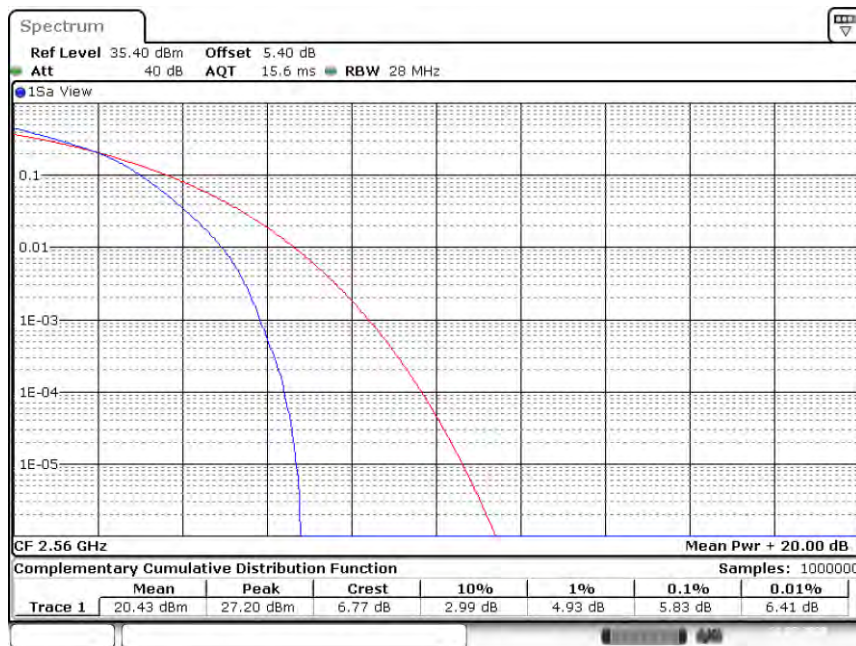


**Band7-20MHz-16QAM-21100-100RB#0**



Date: 31 JUL 2020 19:15:08

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



Date: 31 JUL 2020 19:15:31



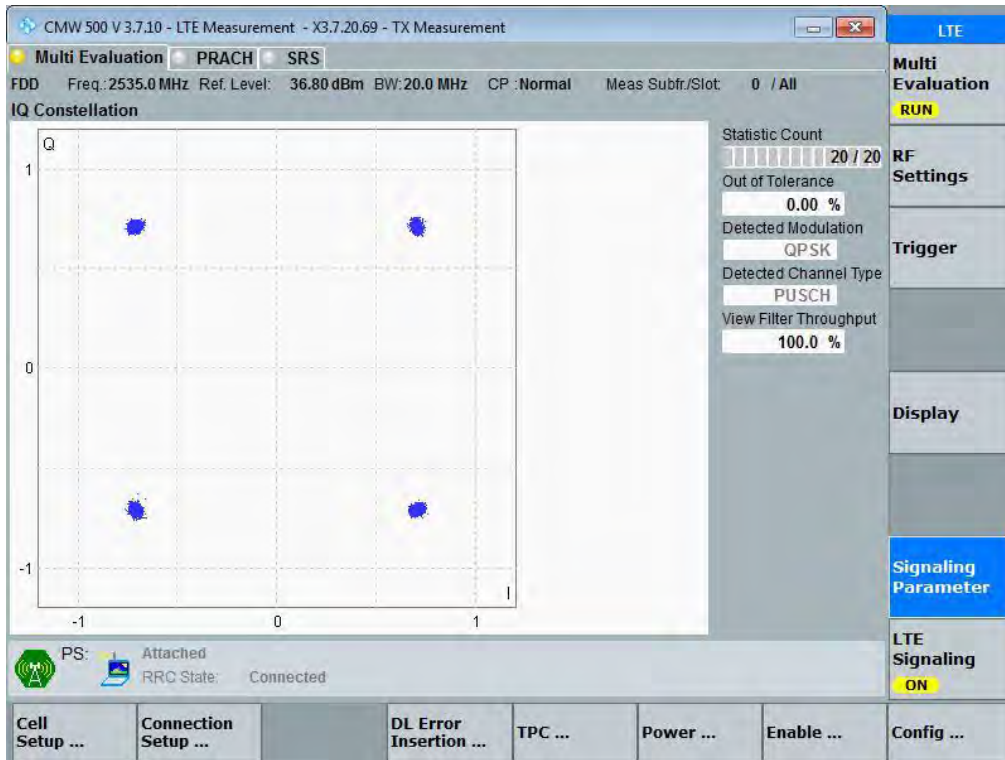
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### 3. Modulation Characteristics

#### 3.1. Test Mode = LTE /TM1 20MHz

##### 3.1.1. Test Channel = MCH



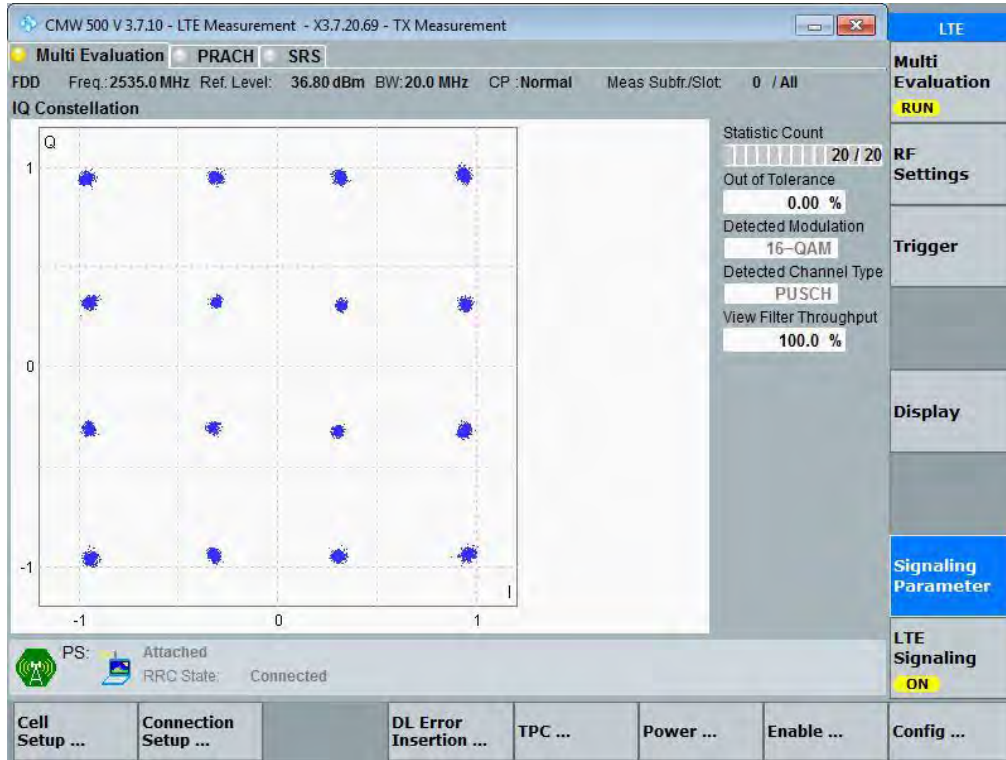
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### 3.2. Test Mode = LTE /TM2 20MHz

#### 3.2.1. Test Channel = MCH



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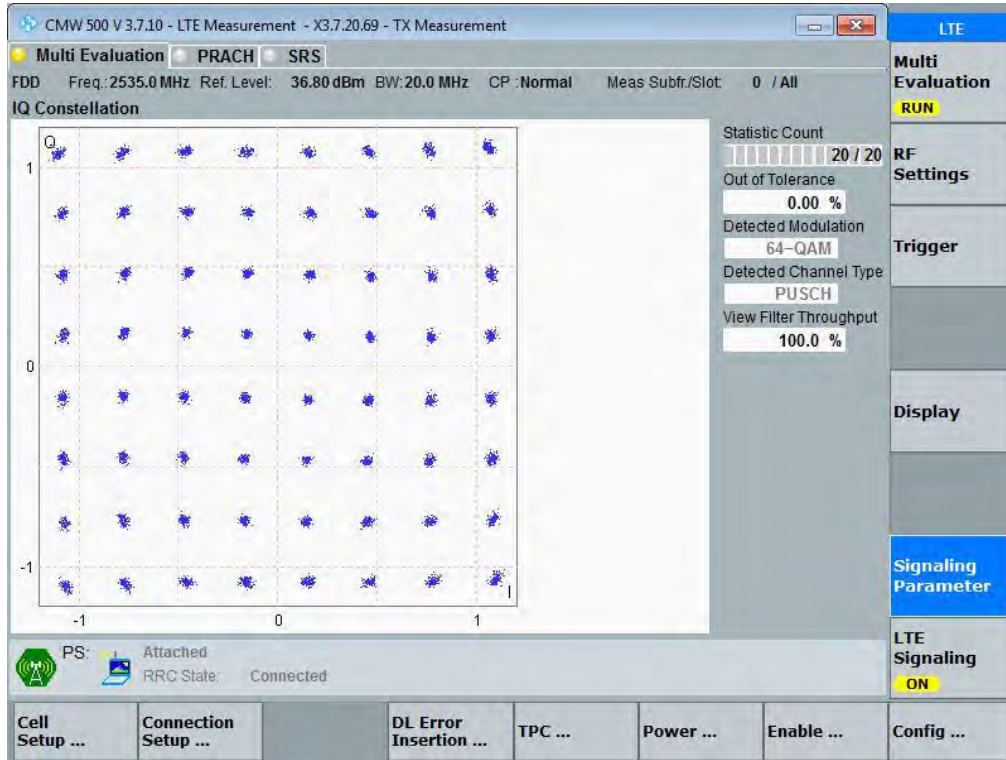
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### 3.3. Test Mode = LTE /TM3 20MHz

#### 3.3.1. Test Channel = MCH



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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.476	4.930	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.476	4.940	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	4.930	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.466	4.950	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.466	4.960	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.476	4.960	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.496	4.940	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.486	4.940	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.496	4.920	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.911	9.740	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.911	9.700	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.931	9.700	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.931	9.800	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.911	9.780	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.931	9.780	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.931	9.700	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.931	9.720	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.931	9.720	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.457	14.880	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.487	14.850	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.457	14.760	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.457	14.760	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.457	14.820	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.457	14.730	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.457	14.790	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.487	14.820	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.457	14.760	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.902	19.440	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.902	19.520	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.862	19.480	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.902	19.440	PASS



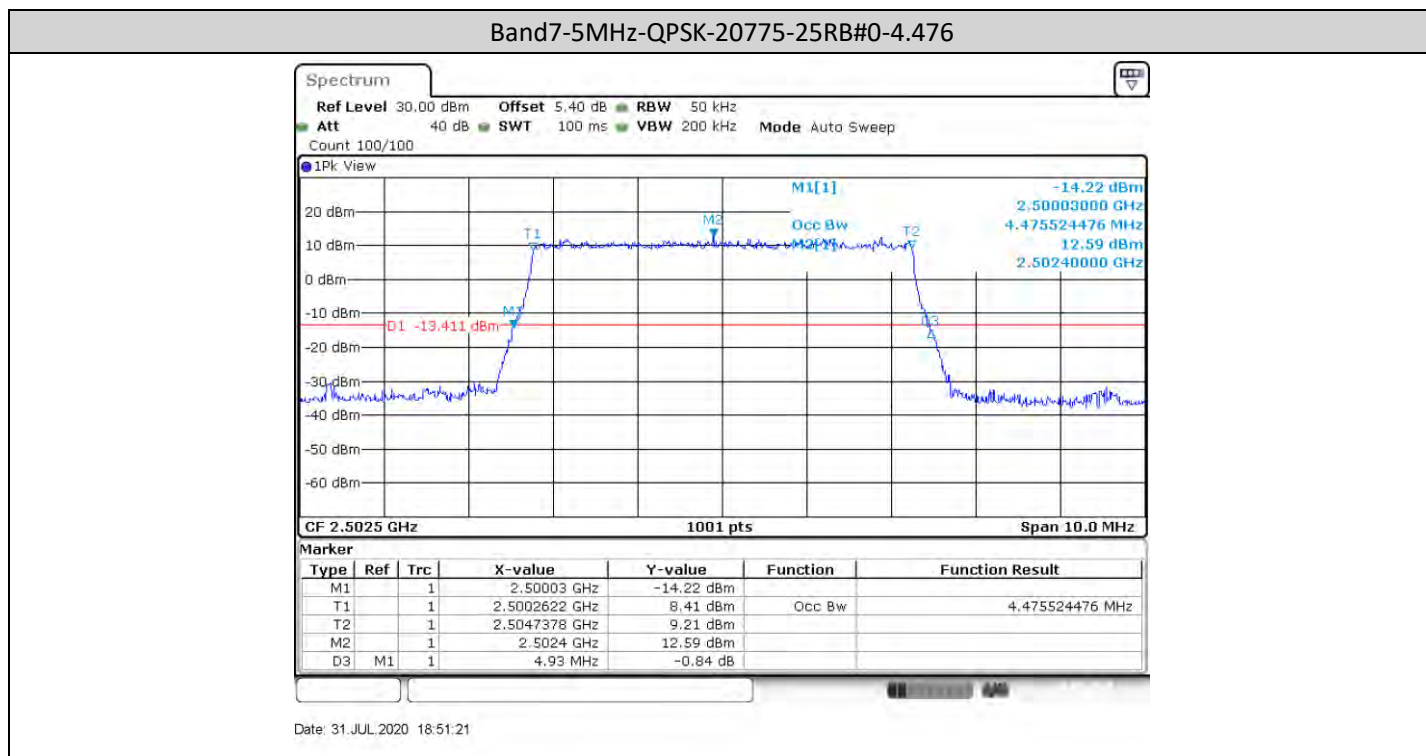
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Band7	20MHz	64QAM	21100	100RB#0	17.862	19.480	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.862	19.320	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.897	19.440	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.875	19.480	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.862	19.360	PASS

## 4.2. Test Plots



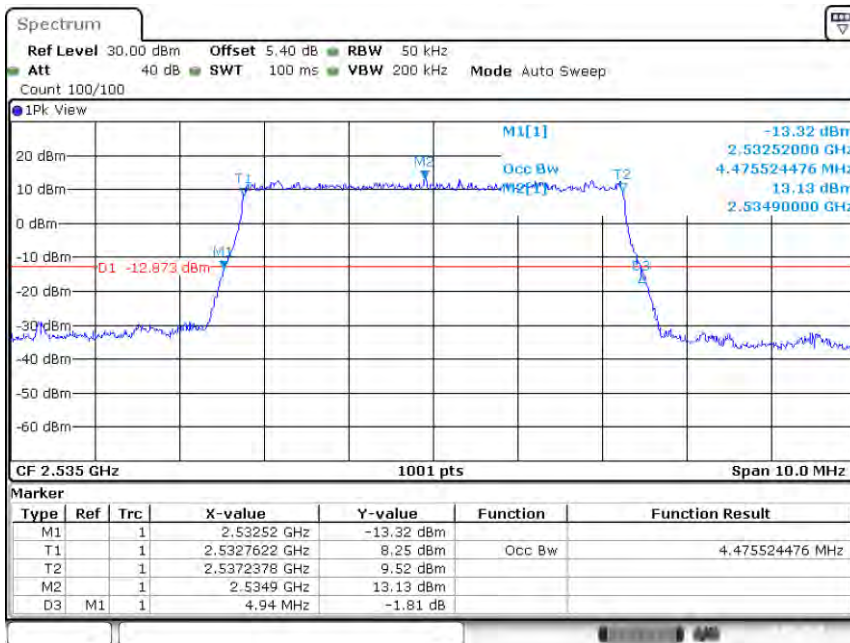
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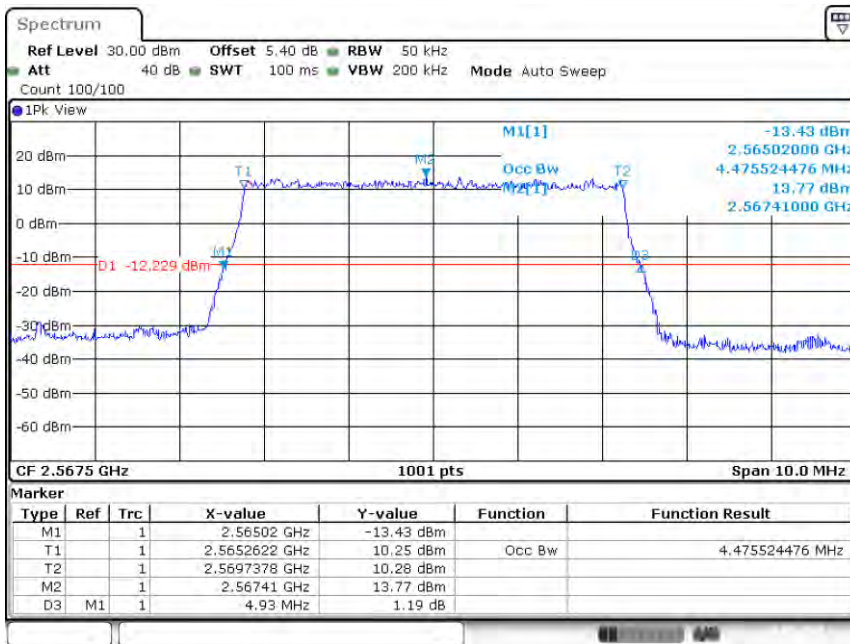


**Band7-5MHz-QPSK-21100-25RB#0-4.476**



Date: 31 JUL 2020 18:52:02

**Band7-5MHz-QPSK-21425-25RB#0-4.476**

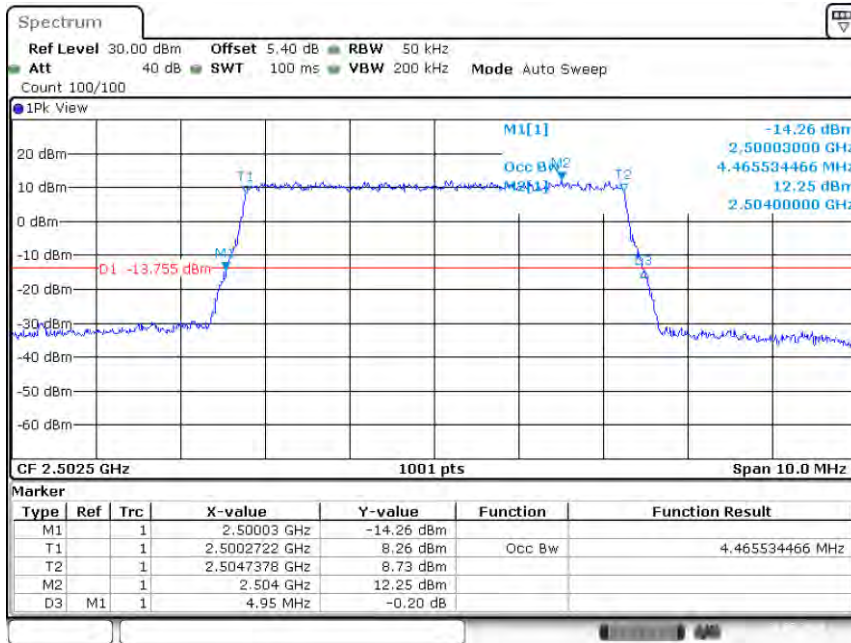


Date: 31 JUL 2020 18:52:42



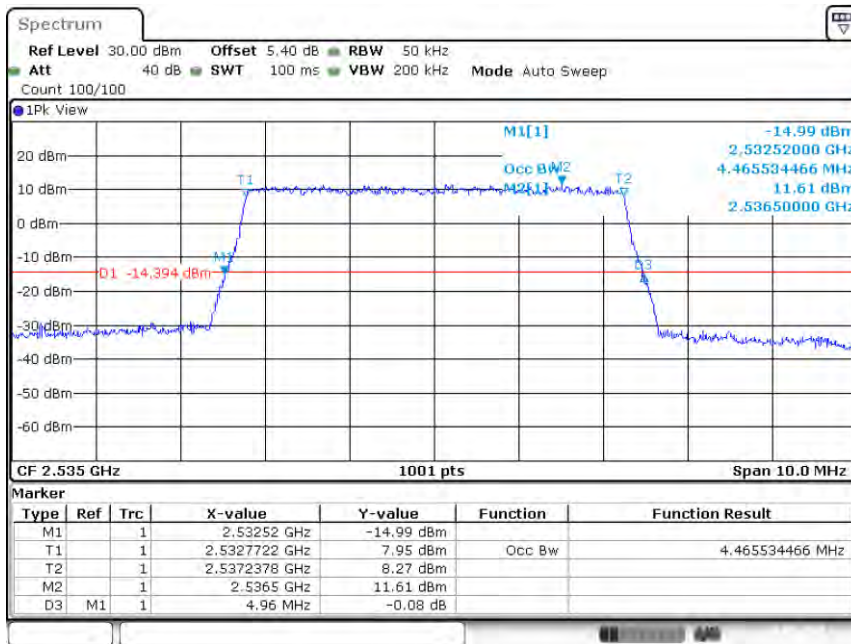
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**Band7-5MHz-64QAM-20775-25RB#0-4.466**



Date: 31 JUL 2020 19:15:55

**Band7-5MHz-64QAM-21100-25RB#0-4.466**



Date: 31 JUL 2020 19:16:15



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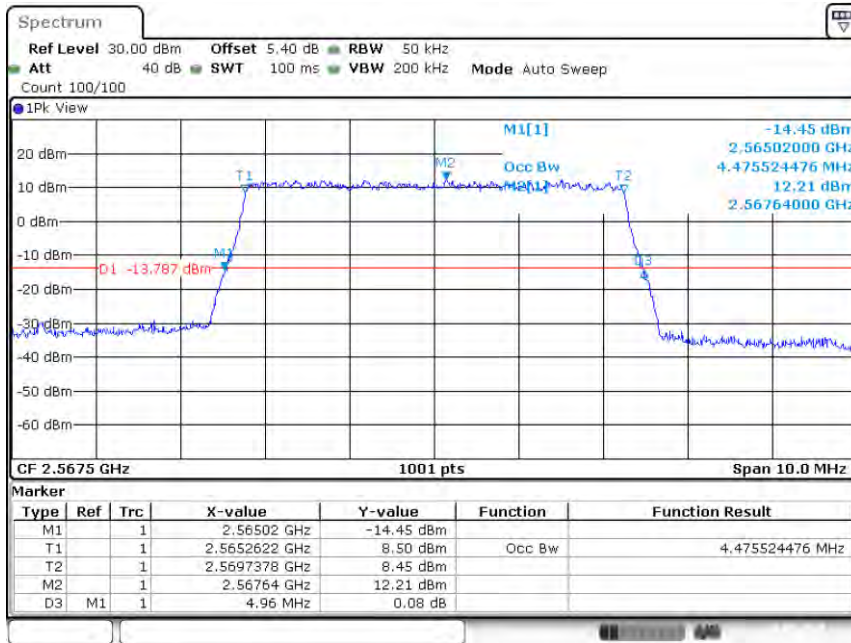
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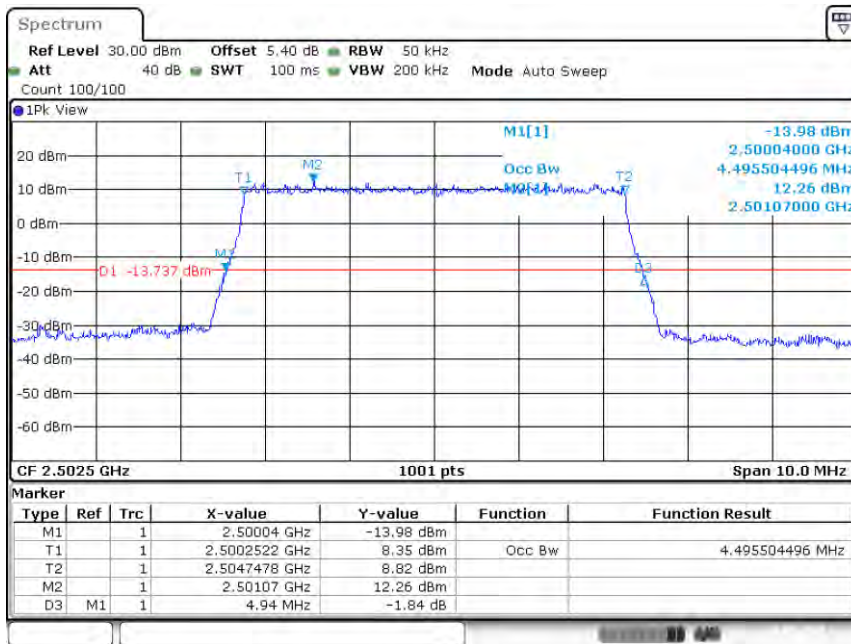


Band7-5MHz-64QAM-21425-25RB#0-4.476



Date: 31 JUL 2020 19:16:35

Band7-5MHz-16QAM-20775-25RB#0-4.496



Date: 31 JUL 2020 18:51:42

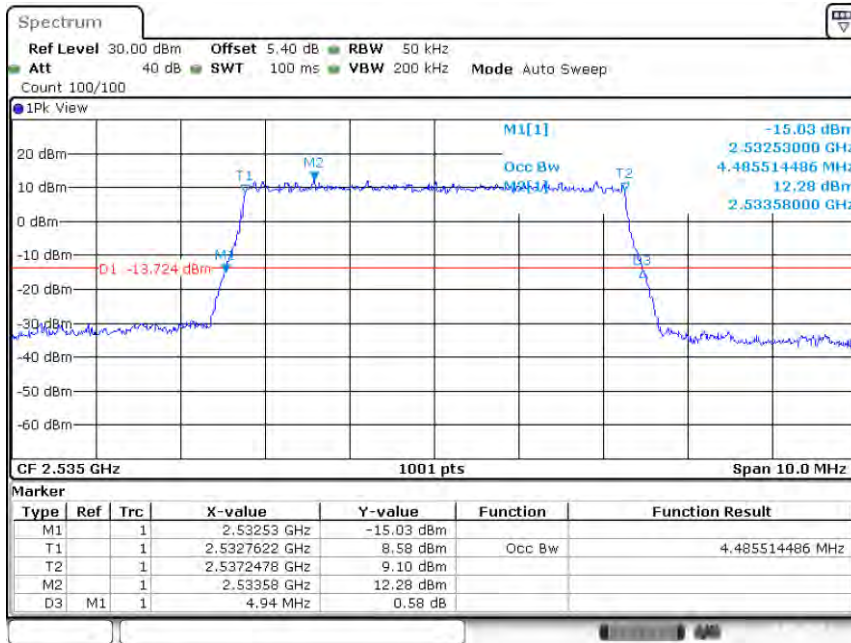


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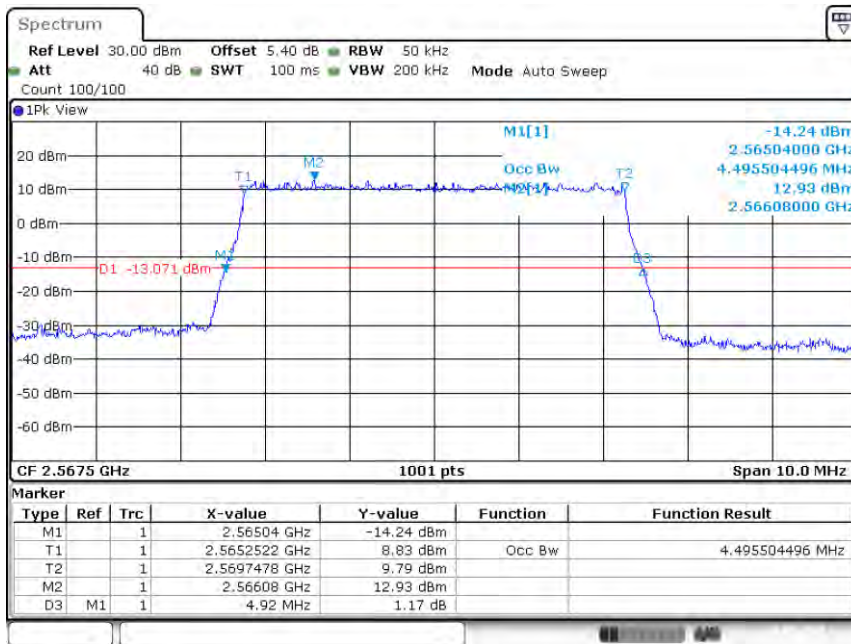


Band7-5MHz-16QAM-21100-25RB#0-4.486



Date: 31 JUL 2020 18:52:22

Band7-5MHz-16QAM-21425-25RB#0-4.496



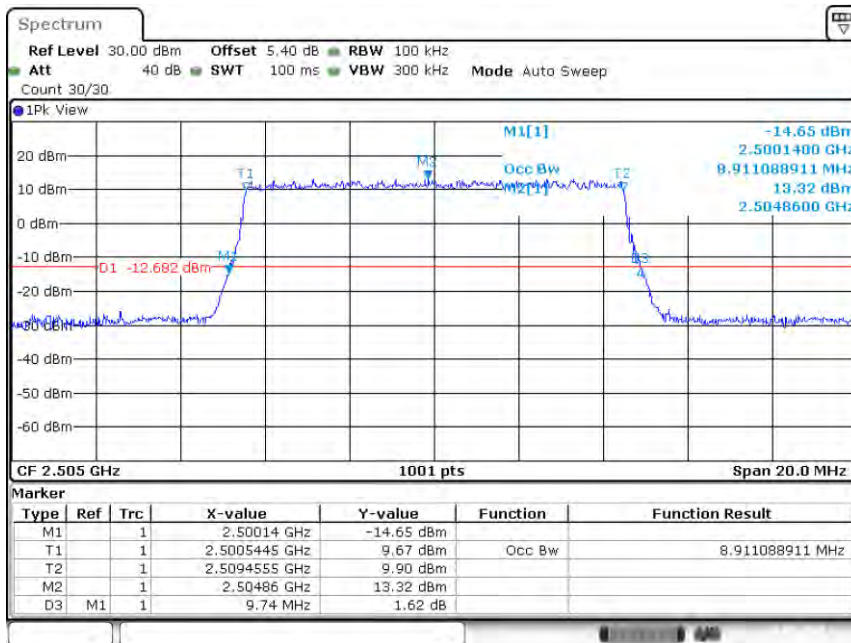
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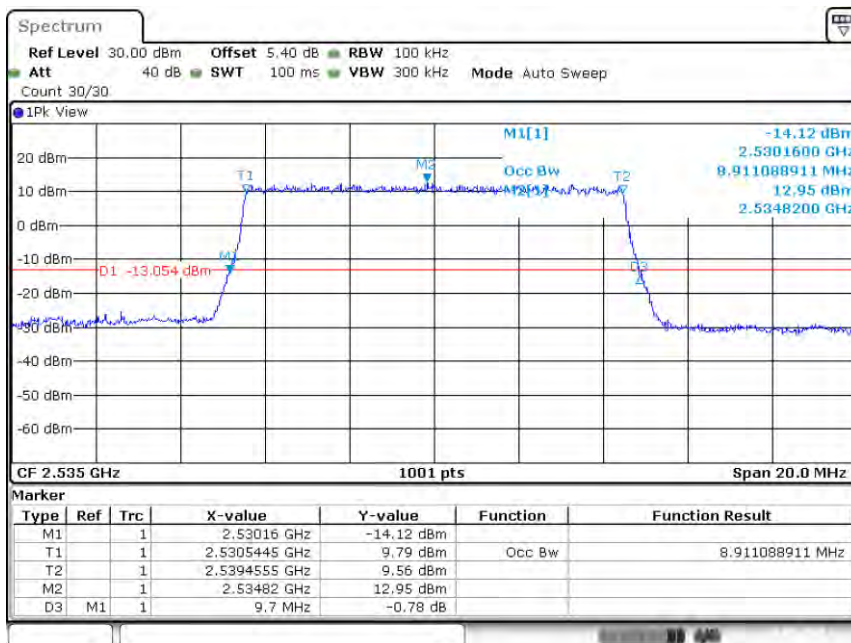


Band7-10MHz-QPSK-20800-50RB#0-8.911



Date: 31 JUL 2020 18:53:19

Band7-10MHz-QPSK-21100-50RB#0-8.911



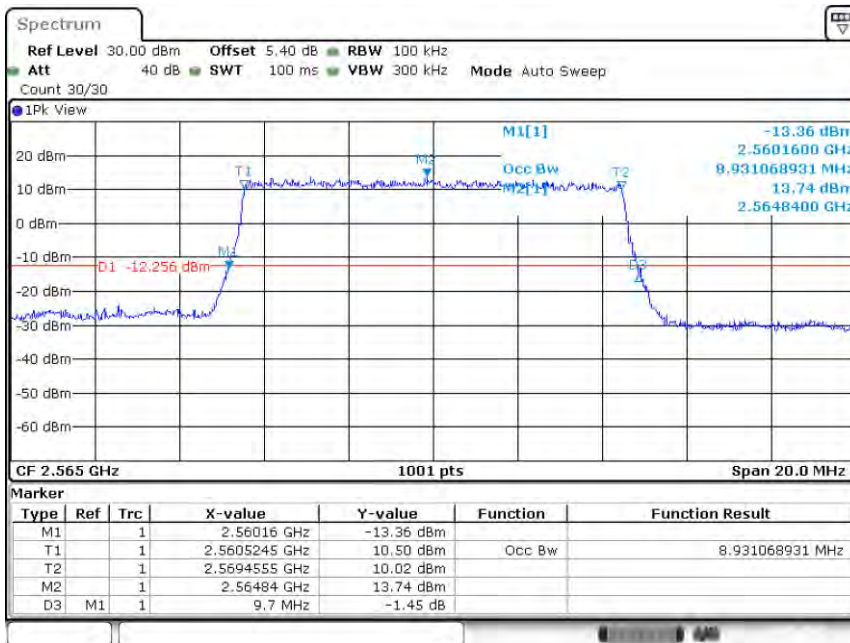
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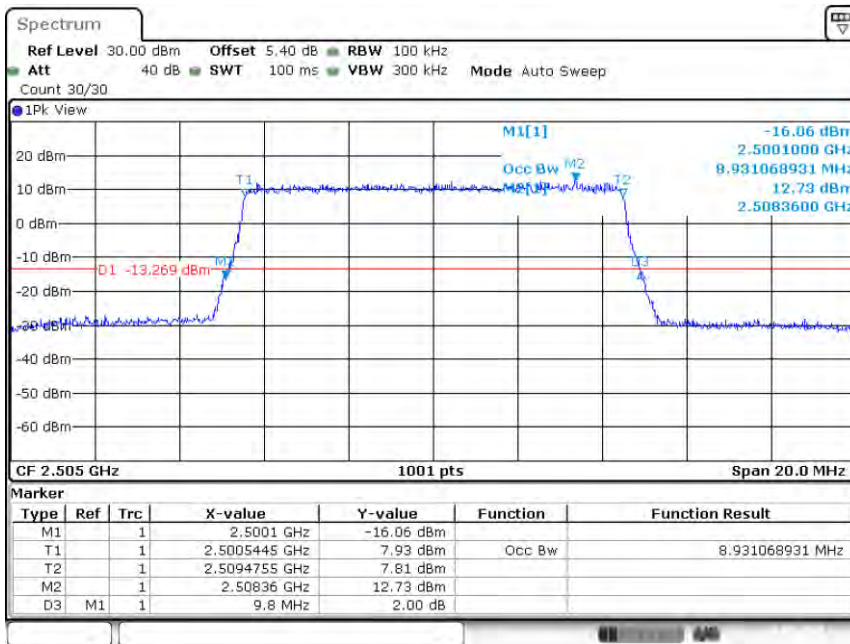


**Band7-10MHz-QPSK-21400-50RB#0-8.931**



Date: 31 JUL 2020 18:54:10

**Band7-10MHz-64QAM-20800-50RB#0-8.931**



Date: 31 JUL 2020 19:16:53

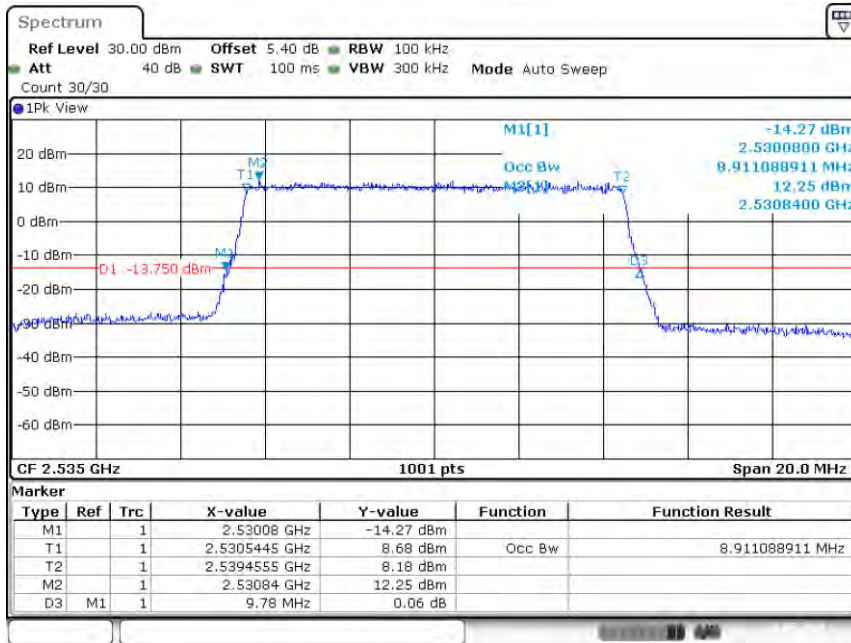


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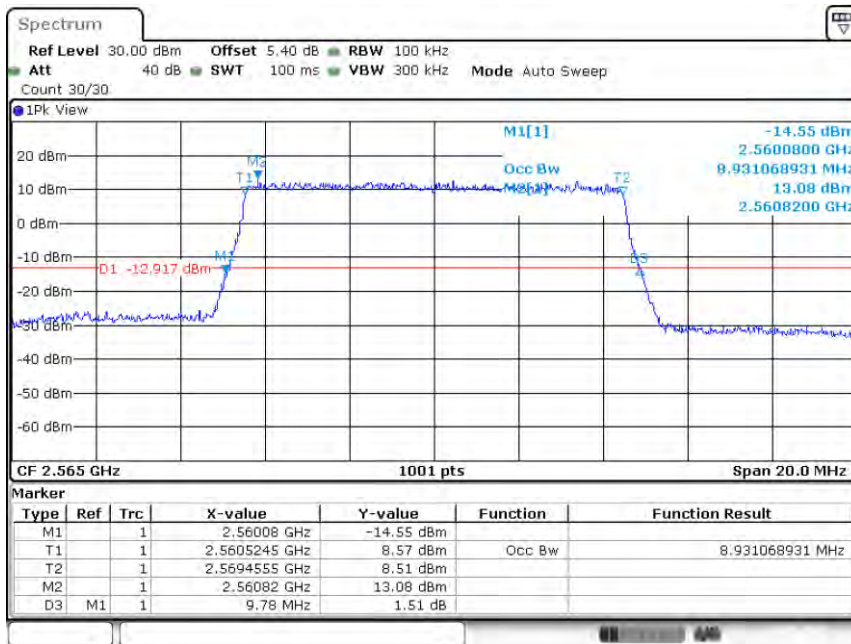


**Band7-10MHz-64QAM-21100-50RB#0-8.911**



Date: 31 JUL 2020 19:17:06

**Band7-10MHz-64QAM-21400-50RB#0-8.931**

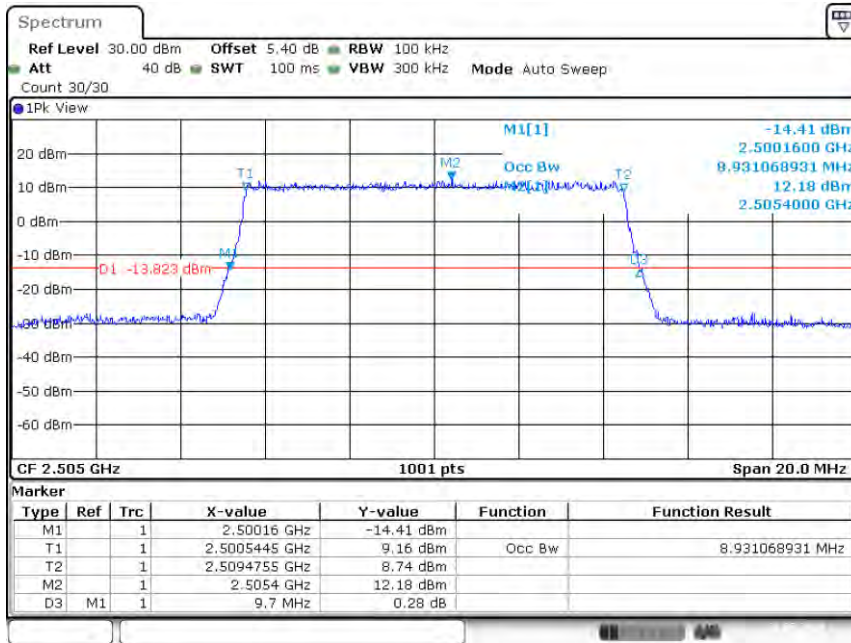


Date: 31 JUL 2020 19:17:19



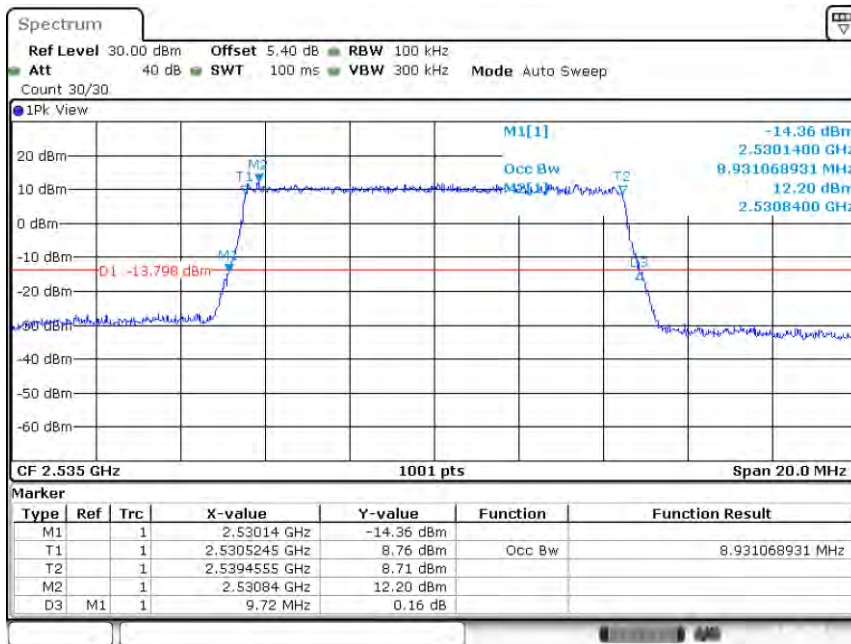
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**Band7-10MHz-16QAM-20800-50RB#0-8.931**



Date: 31 JUL 2020 18:53:31

**Band7-10MHz-16QAM-21100-50RB#0-8.931**



Date: 31 JUL 2020 18:53:57

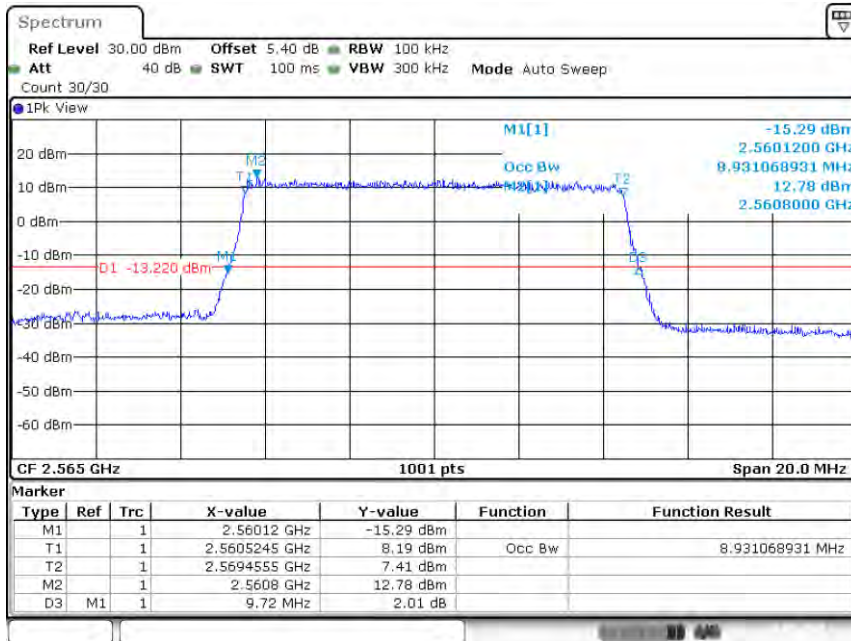


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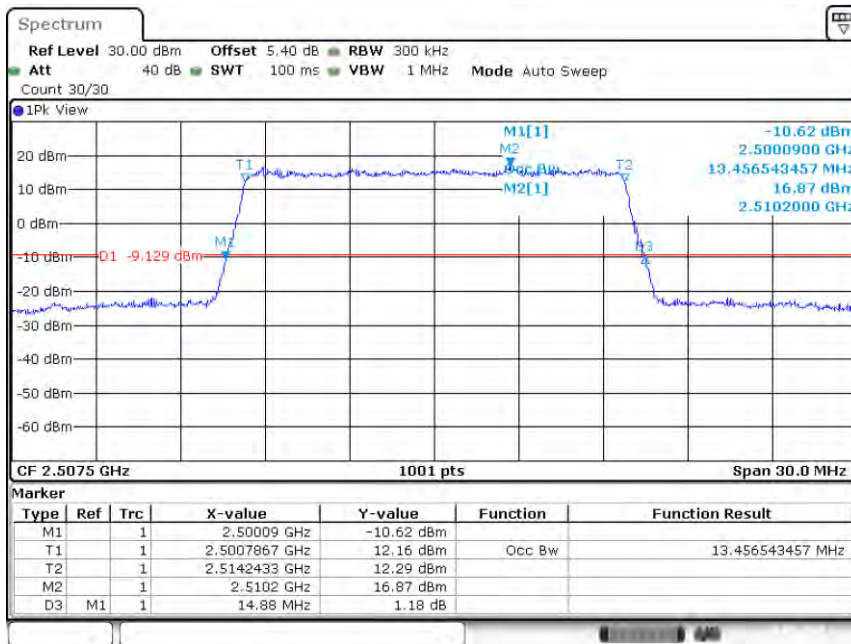


Band7-10MHz-16QAM-21400-50RB#0-8.931



Date: 31 JUL 2020 18:54:23

Band7-15MHz-QPSK-20825-75RB#0-13.457



Date: 31 JUL 2020 18:54:40

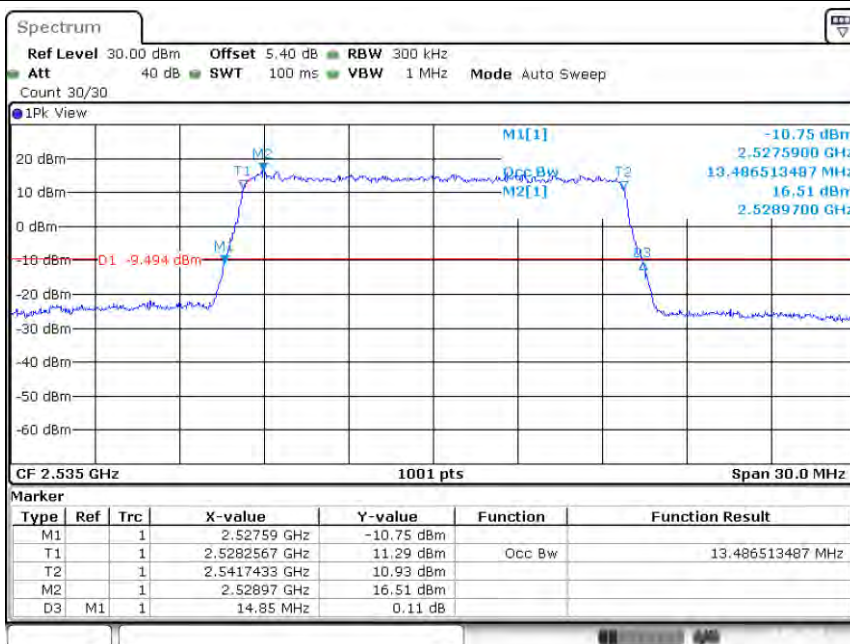


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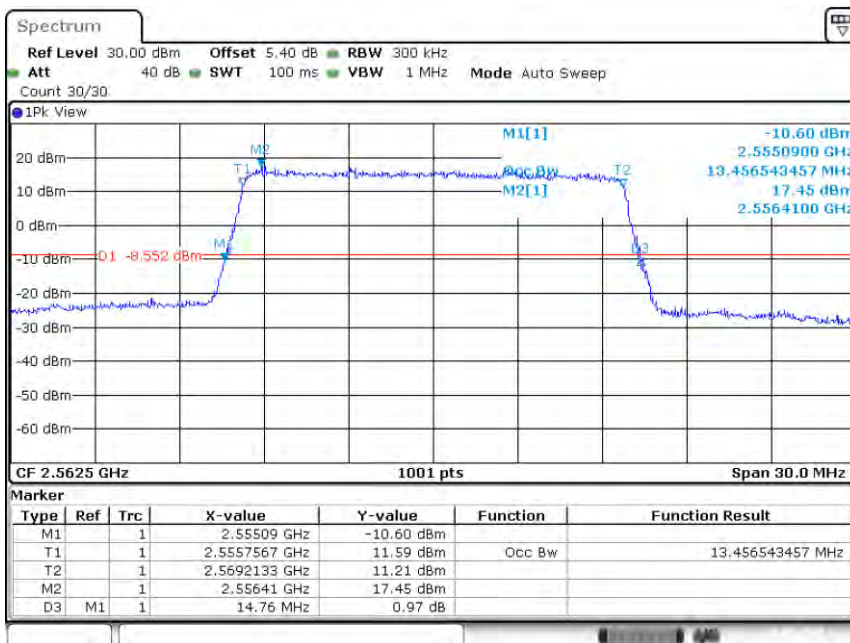


Band7-15MHz-QPSK-21100-75RB#0-13.487



Date: 31 JUL 2020 18:55:06

Band7-15MHz-QPSK-21375-75RB#0-13.457

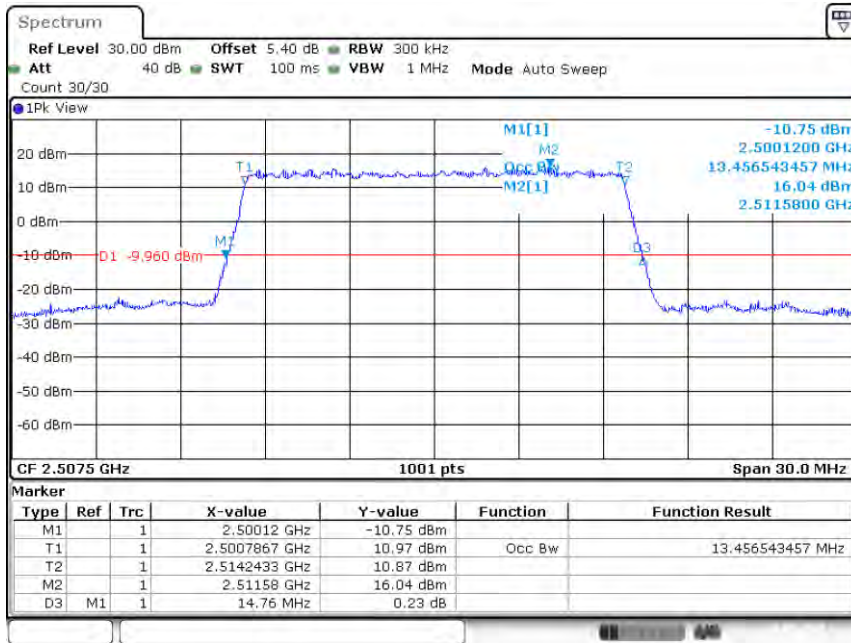


Date: 31 JUL 2020 18:55:31



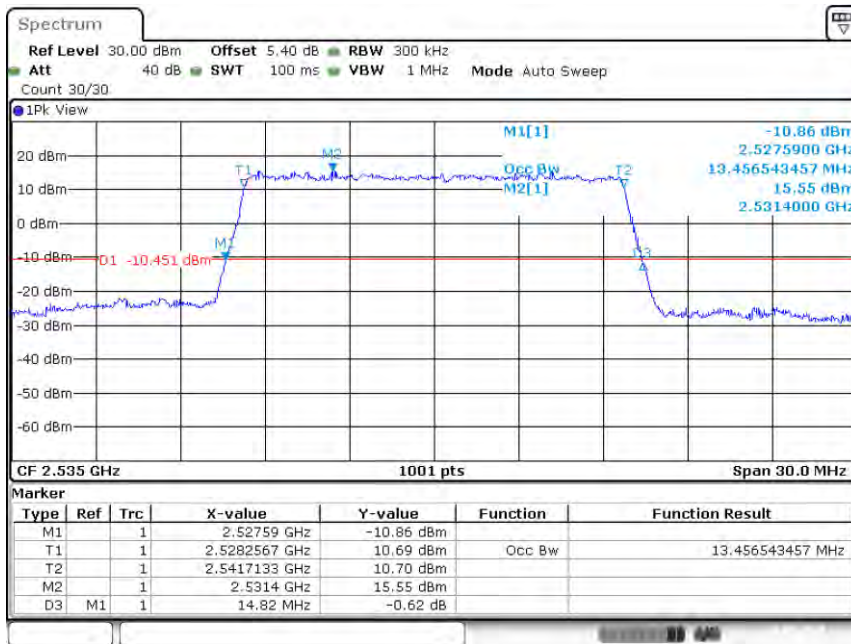
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**Band7-15MHz-64QAM-20825-75RB#0-13.457**



Date: 31 JUL 2020 19:17:37

**Band7-15MHz-64QAM-21100-75RB#0-13.457**



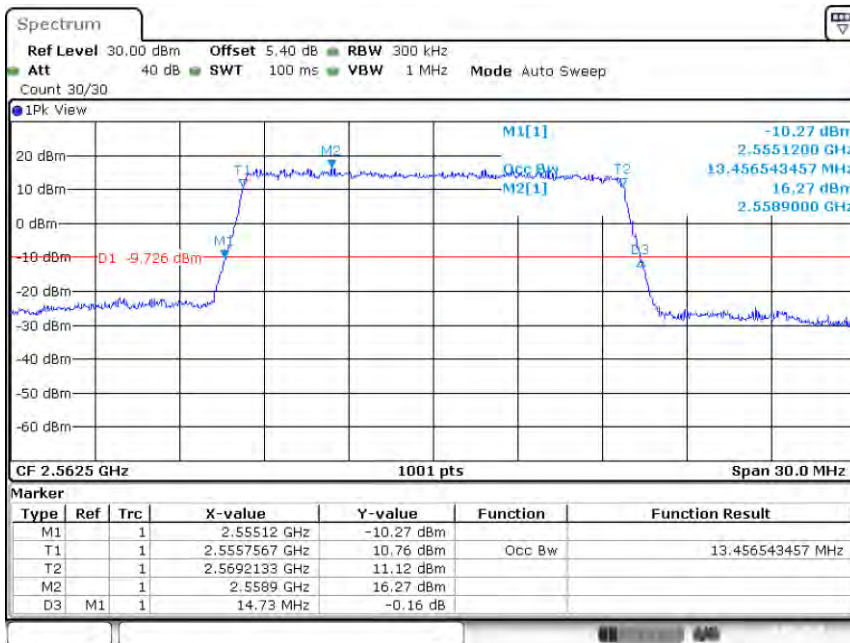
Date: 31 JUL 2020 19:17:50



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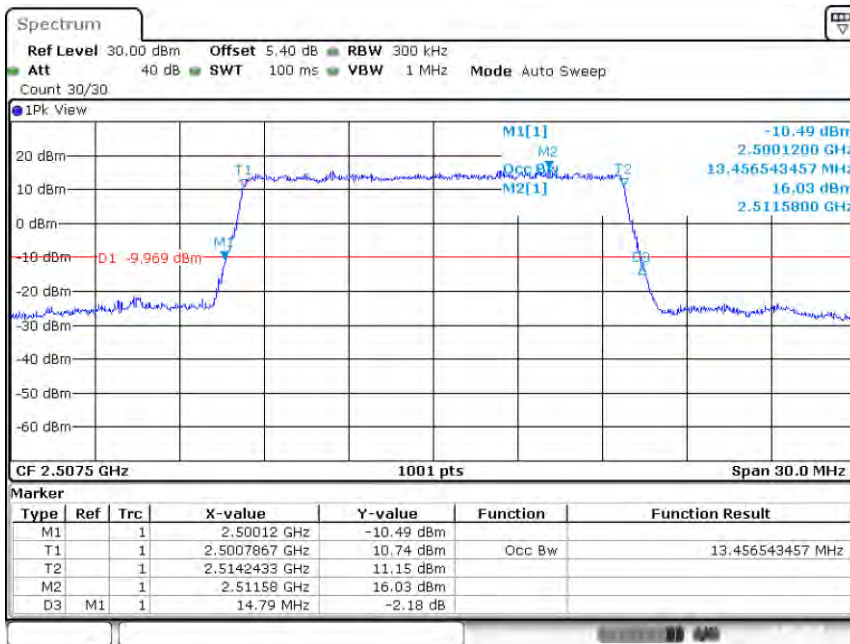


**Band7-15MHz-64QAM-21375-75RB#0-13.457**



Date: 31 JUL 2020 19:18:03

**Band7-15MHz-16QAM-20825-75RB#0-13.457**



Date: 31 JUL 2020 18:54:53

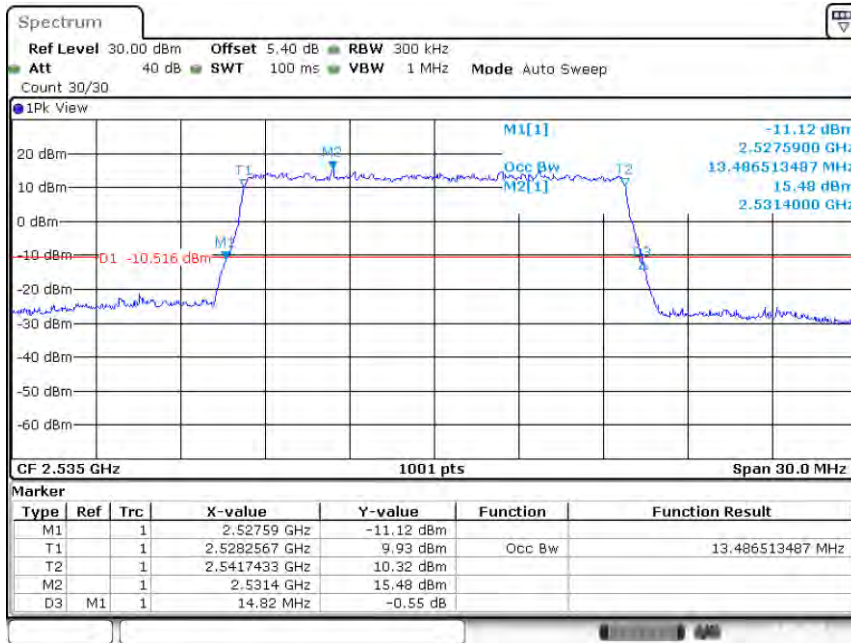


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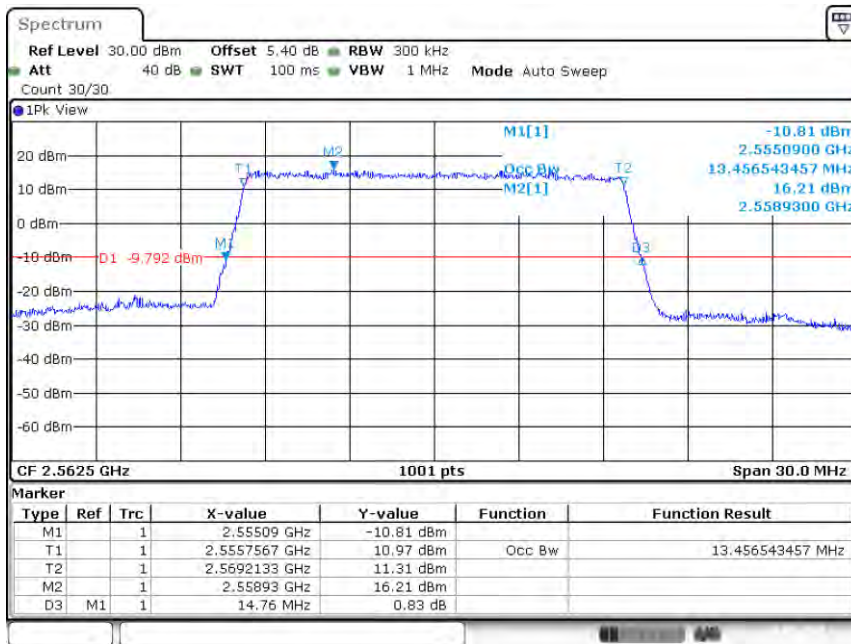


Band7-15MHz-16QAM-21100-75RB#0-13.487



Date: 31 JUL 2020 18:55:18

Band7-15MHz-16QAM-21375-75RB#0-13.457



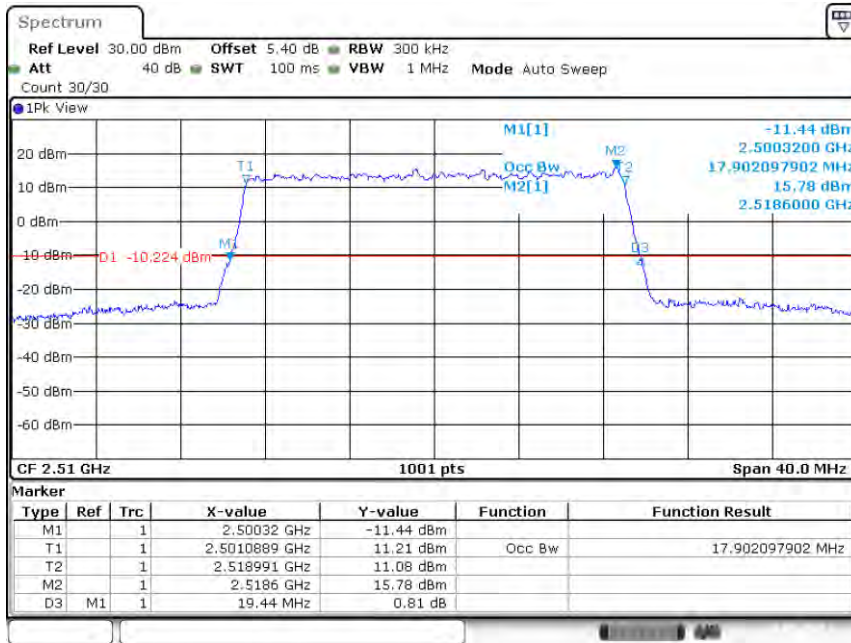
Date: 31 JUL 2020 18:55:44



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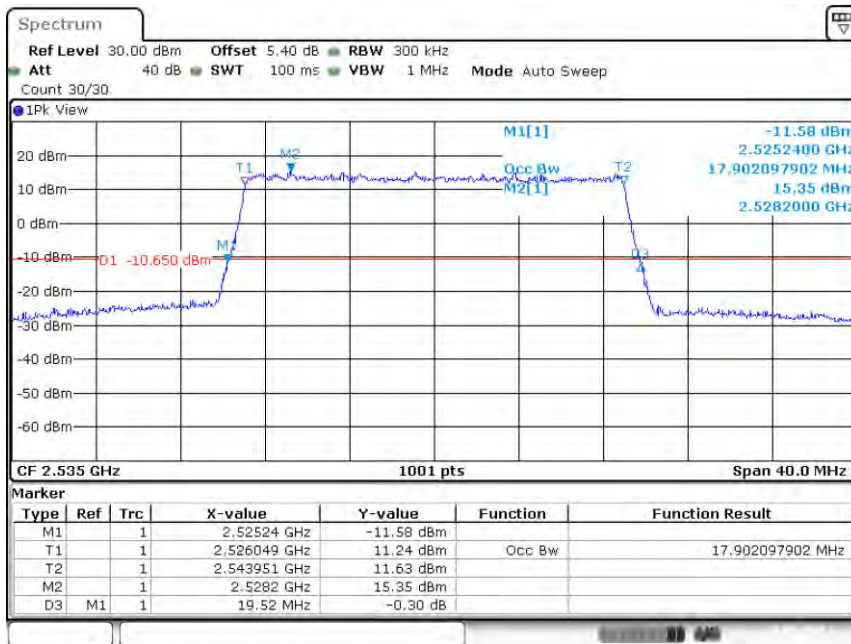


**Band7-20MHz-QPSK-20850-100RB#0-17.902**



Date: 31 JUL 2020 18:56:02

**Band7-20MHz-16QAM-21100-100RB#0-17.902**



Date: 31 JUL 2020 18:56:27

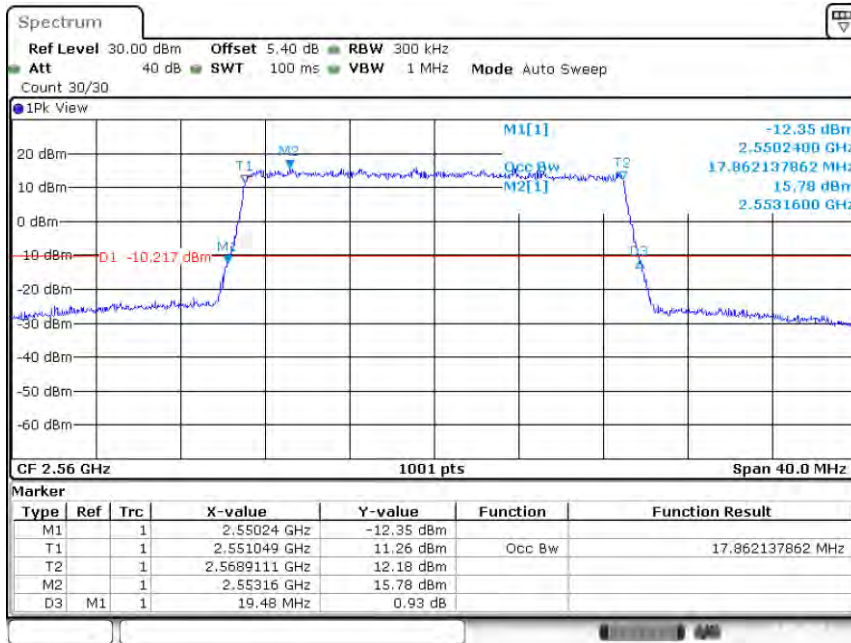


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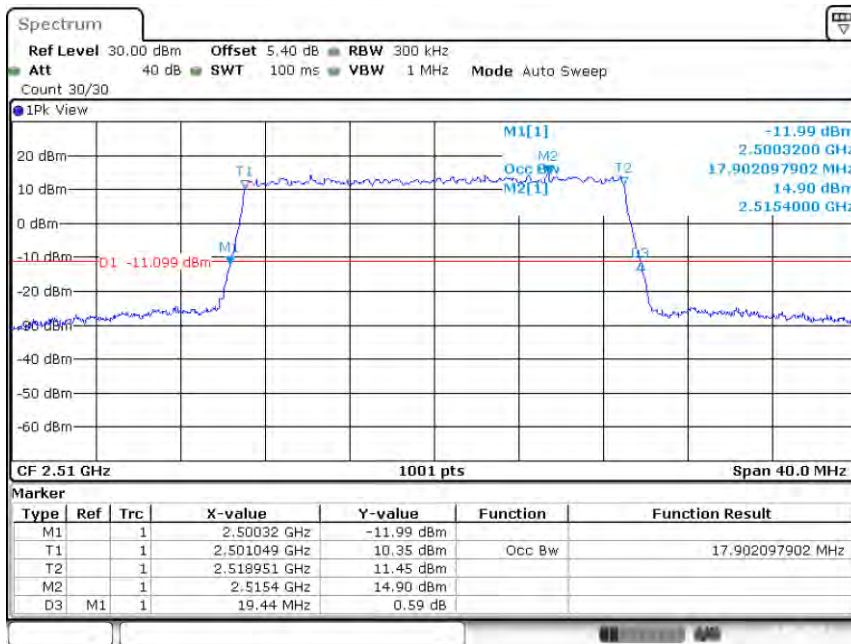


Band7-20MHz-QPSK-21350-100RB#0-17.862



Date: 31 JUL 2020 18:56:53

Band7-20MHz-64QAM-20850-100RB#0-17.902



Date: 31 JUL 2020 19:18:21

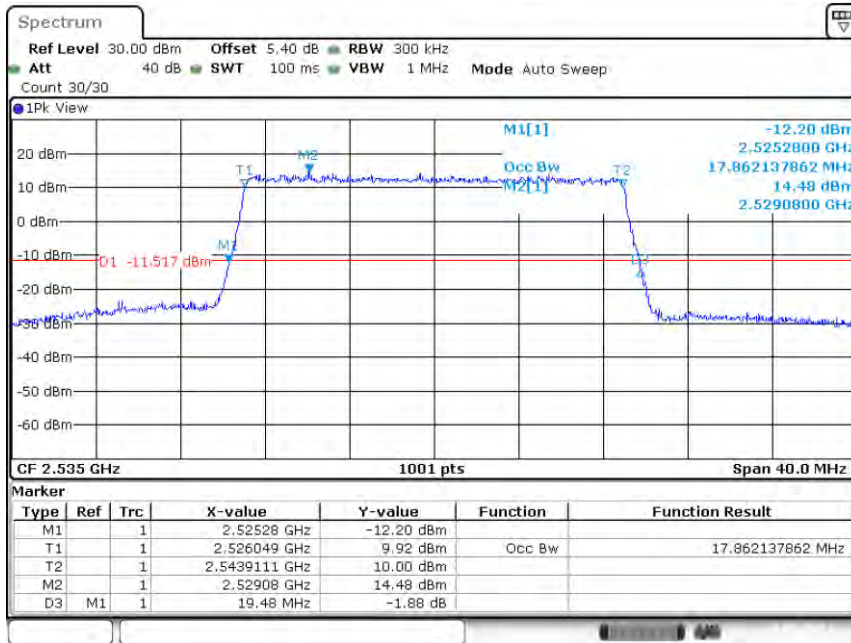


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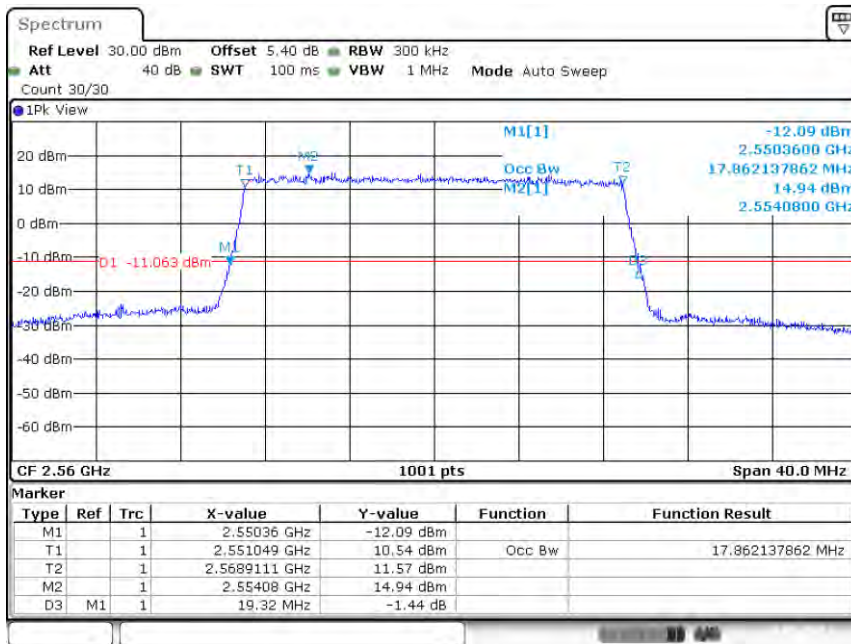


**Band7-20MHz-64QAM-21100-100RB#0-17.862**



Date: 31 JUL 2020 19:18:34

**Band7-20MHz-64QAM-21350-100RB#0-17.862**

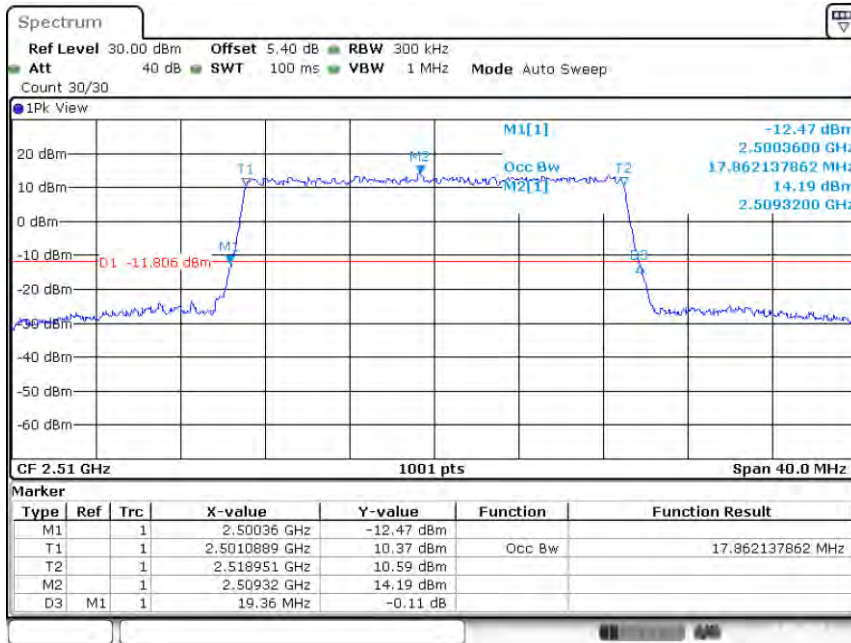


Date: 31 JUL 2020 19:18:46



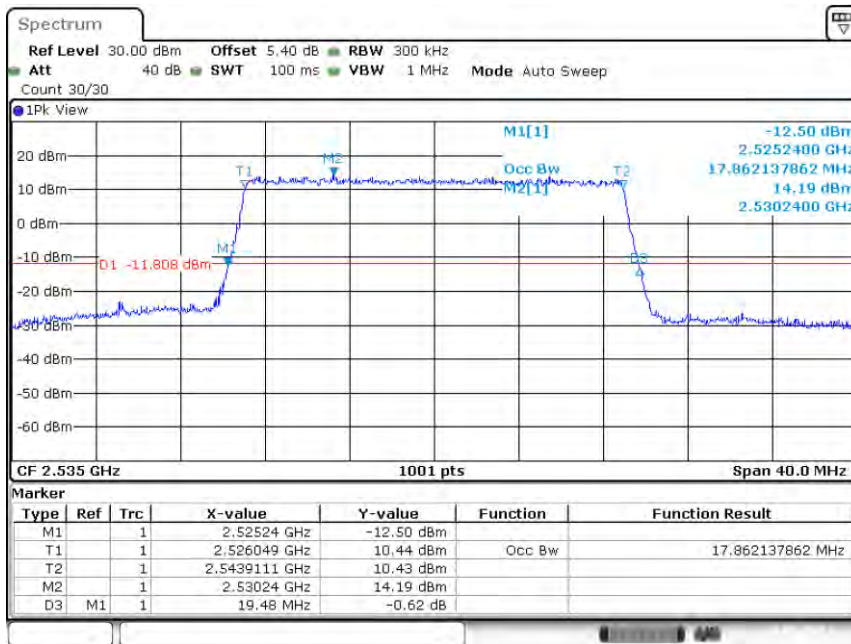
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**Band7-20MHz-16QAM-20850-100RB#0-17.862**



Date: 31 JUL 2020 18:56:14

**Band7-20MHz-16QAM-21100-100RB#0-17.862**

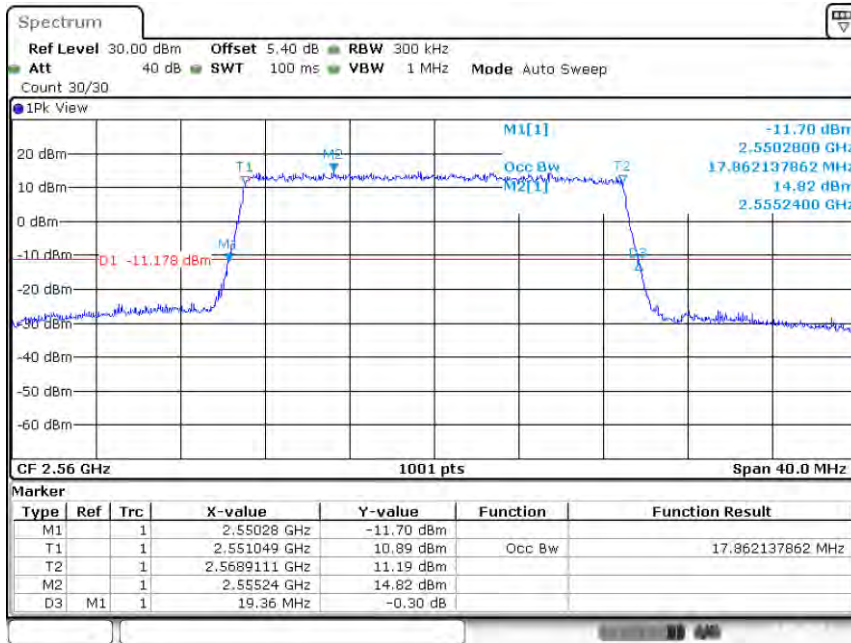


Date: 31 JUL 2020 18:56:40



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**Band7-20MHz-16QAM-21350-100RB#0-17.862**



Date 31 JUL 2020 18:57:06



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## 5. Band Edge Compliance

### 5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	-46.97,-50.09,-18.57	PASS
Band7	5MHz	QPSK	20775	25RB#0	-51.39,-46.33,-27.15	PASS
Band7	5MHz	QPSK	21425	1RB#24	-48.82,-51.28,-18.47	PASS
Band7	5MHz	QPSK	21425	25RB#0	-48.08,-48.40,-28.10	PASS
Band7	5MHz	64QAM	20775	1RB#0	-48.00,-50.95,-18.86	PASS
Band7	5MHz	64QAM	20775	25RB#0	-52.02,-47.04,-28.60	PASS
Band7	5MHz	64QAM	21425	1RB#24	-50.15,-51.99,-19.54	PASS
Band7	5MHz	64QAM	21425	25RB#0	-49.20,-48.09,-29.06	PASS
Band7	5MHz	16QAM	20775	1RB#0	-47.74,-50.59,-18.98	PASS
Band7	5MHz	16QAM	20775	25RB#0	-51.94,-46.69,-28.05	PASS
Band7	5MHz	16QAM	21425	1RB#24	-49.67,-51.67,-19.19	PASS
Band7	5MHz	16QAM	21425	25RB#0	-49.31,-48.27,-28.49	PASS
Band7	10MHz	QPSK	20800	1RB#0	-44.87,-39.30,-25.35	PASS
Band7	10MHz	QPSK	20800	50RB#0	-47.57,-35.13,-29.18	PASS
Band7	10MHz	QPSK	21400	1RB#49	-45.09,-47.36,-25.28	PASS
Band7	10MHz	QPSK	21400	50RB#0	-47.51,-38.11,-29.46	PASS
Band7	10MHz	64QAM	20800	1RB#0	-46.02,-40.45,-25.84	PASS
Band7	10MHz	64QAM	20800	50RB#0	-47.81,-36.49,-30.76	PASS
Band7	10MHz	64QAM	21400	1RB#49	-46.09,-48.21,-26.24	PASS
Band7	10MHz	64QAM	21400	50RB#0	-47.86,-39.99,-31.39	PASS
Band7	10MHz	16QAM	20800	1RB#0	-45.52,-40.14,-24.90	PASS
Band7	10MHz	16QAM	20800	50RB#0	-47.65,-36.19,-30.73	PASS
Band7	10MHz	16QAM	21400	1RB#49	-45.77,-47.74,-26.99	PASS
Band7	10MHz	16QAM	21400	50RB#0	-47.87,-40.10,-31.56	PASS
Band7	15MHz	QPSK	20825	1RB#0	-44.03,-34.48,-23.86	PASS
Band7	15MHz	QPSK	20825	75RB#0	-39.05,-33.72,-30.66	PASS
Band7	15MHz	QPSK	21375	1RB#74	-47.85,-44.78,-23.70	PASS
Band7	15MHz	QPSK	21375	75RB#0	-46.94,-35.75,-30.92	PASS
Band7	15MHz	64QAM	20825	1RB#0	-45.14,-35.21,-24.29	PASS
Band7	15MHz	64QAM	20825	75RB#0	-41.63,-34.75,-32.09	PASS
Band7	15MHz	64QAM	21375	1RB#74	-48.12,-45.17,-22.81	PASS
Band7	15MHz	64QAM	21375	75RB#0	-47.07,-38.41,-33.36	PASS



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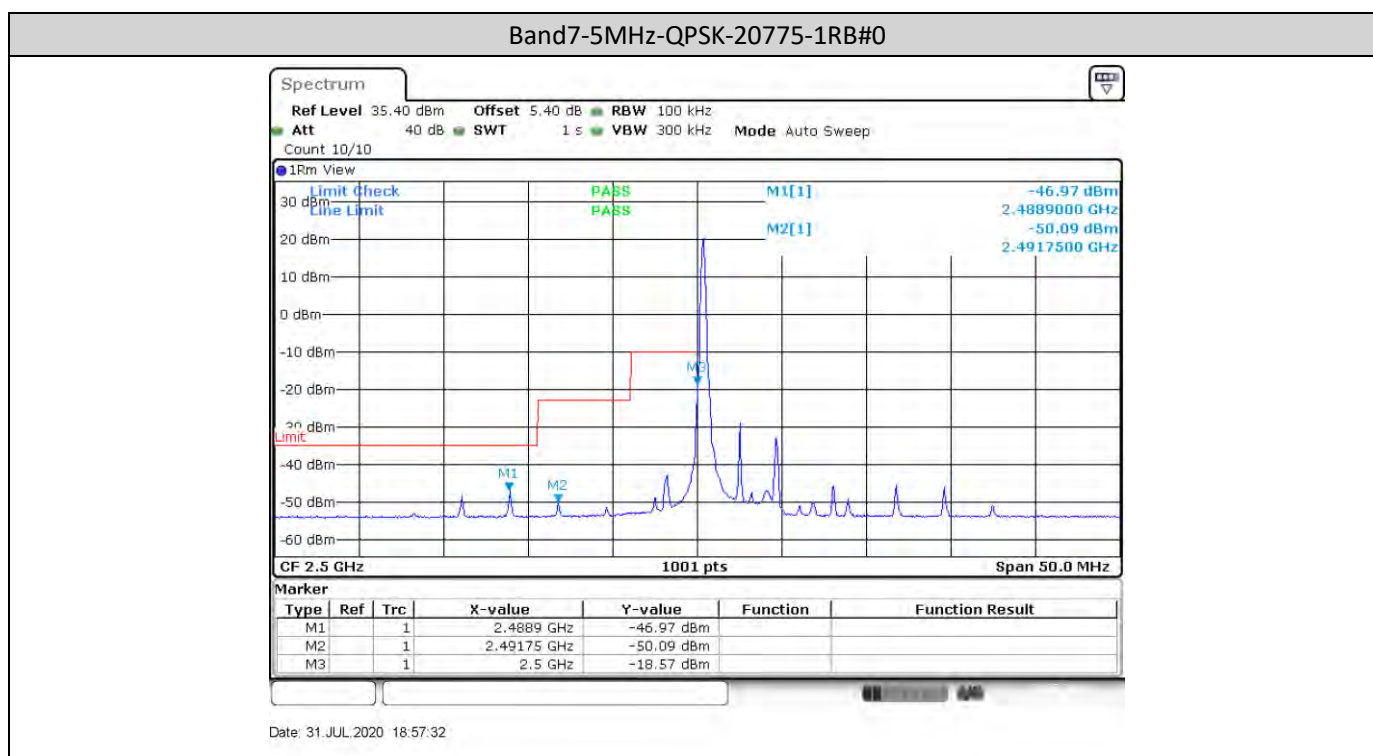
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Band7	15MHz	16QAM	20825	1RB#0	-44.62,-35.15,-24.80	PASS
Band7	15MHz	16QAM	20825	75RB#0	-41.69,-35.05,-32.53	PASS
Band7	15MHz	16QAM	21375	1RB#74	-48.06,-45.15,-23.60	PASS
Band7	15MHz	16QAM	21375	75RB#0	-47.15,-38.30,-33.09	PASS
Band7	20MHz	QPSK	20850	1RB#0	-43.26,-34.84,-21.65	PASS
Band7	20MHz	QPSK	20850	100RB#0	-35.98,-32.30,-29.38	PASS
Band7	20MHz	QPSK	21350	1RB#99	-46.77,-41.15,-22.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	-45.84,-34.86,-30.19	PASS
Band7	20MHz	64QAM	20850	1RB#0	-43.86,-35.82,-22.08	PASS
Band7	20MHz	64QAM	20850	100RB#0	-38.18,-33.75,-31.36	PASS
Band7	20MHz	64QAM	21350	1RB#99	-46.79,-42.34,-22.27	PASS
Band7	20MHz	64QAM	21350	100RB#0	-45.63,-37.45,-33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	-43.68,-35.50,-21.86	PASS
Band7	20MHz	16QAM	20850	100RB#0	-38.32,-33.87,-31.37	PASS
Band7	20MHz	16QAM	21350	1RB#99	-46.76,-41.90,-22.95	PASS
Band7	20MHz	16QAM	21350	100RB#0	-45.64,-37.39,-32.89	PASS

## 5.2. Test Plots



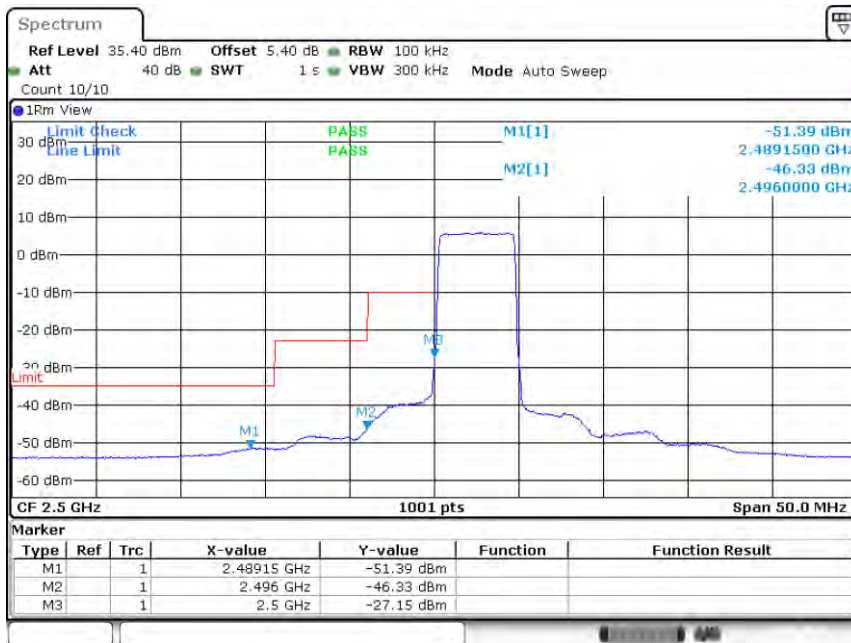
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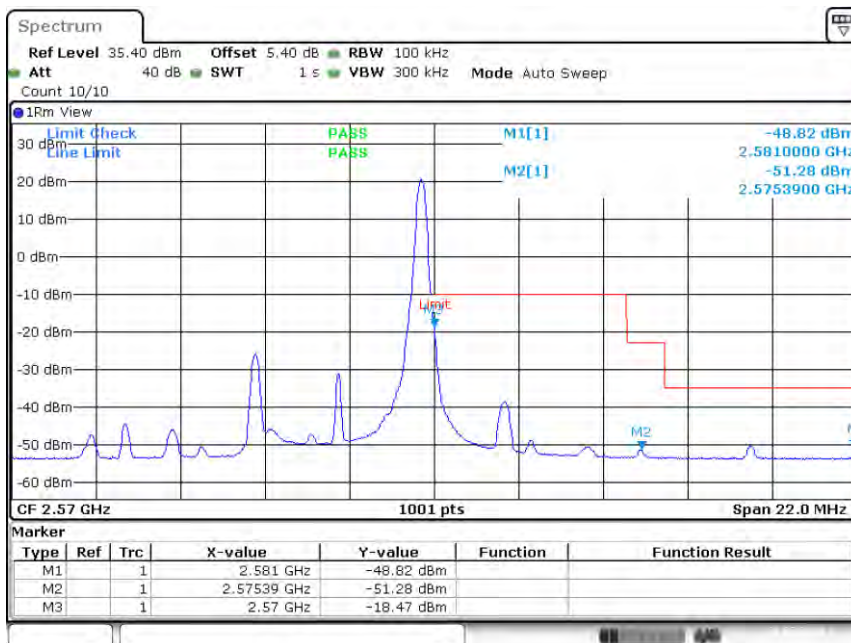


**Band7-5MHz-QPSK-20775-25RB#0**



Date: 31 JUL 2020 18:59:06

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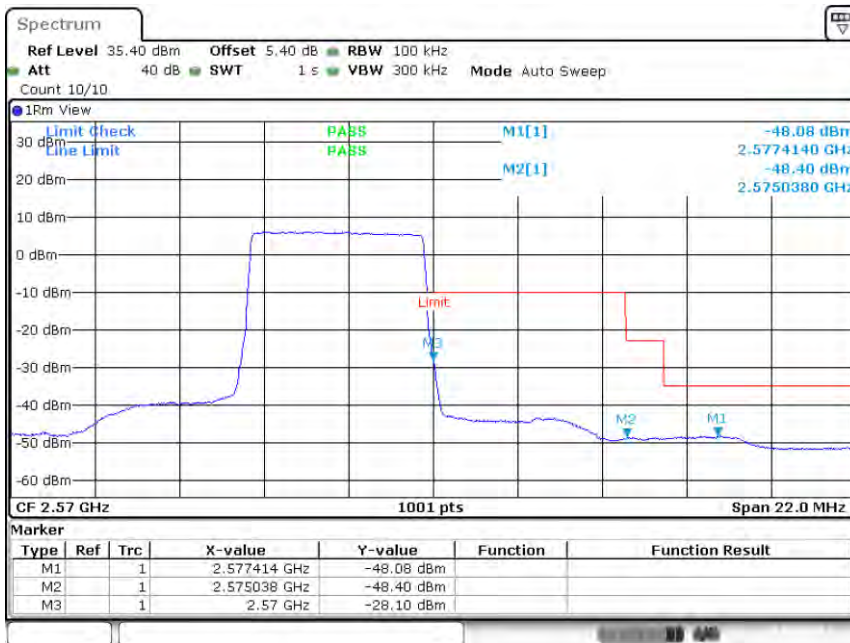
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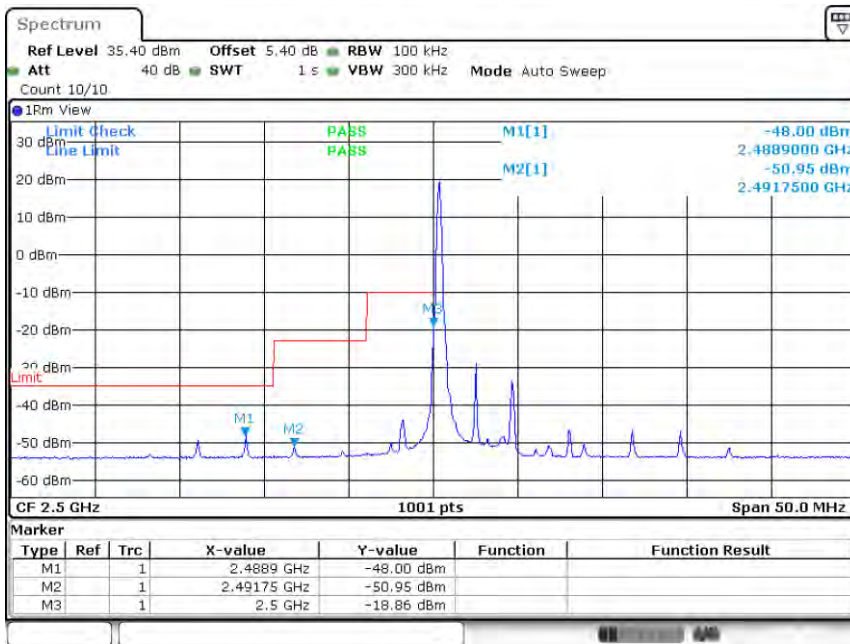


Band7-5MHz-QPSK-21425-25RB#0



Date: 31 JUL 2020 18:59:49

Band7-5MHz-64QAM-20775-1RB#0



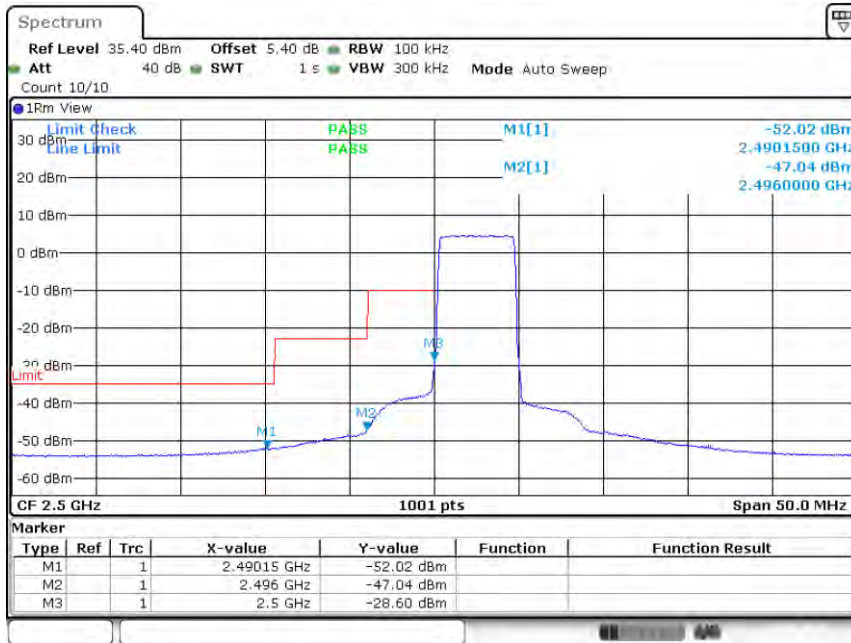
Date: 31 JUL 2020 19:19:13



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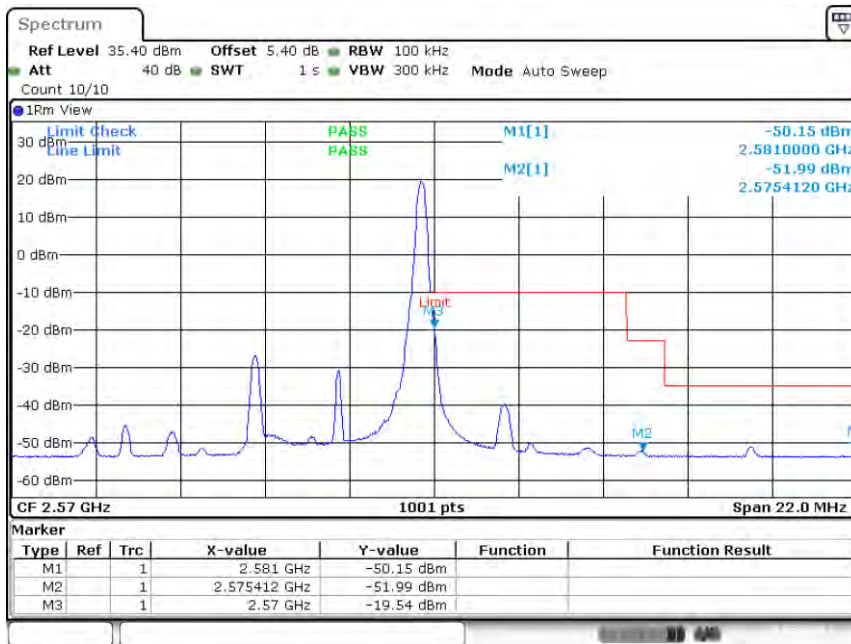


**Band7-5MHz-64QAM-20775-25RB#0**



Date: 31 JUL 2020 19:20:04

**Band7-5MHz-64QAM-21425-1RB#24**

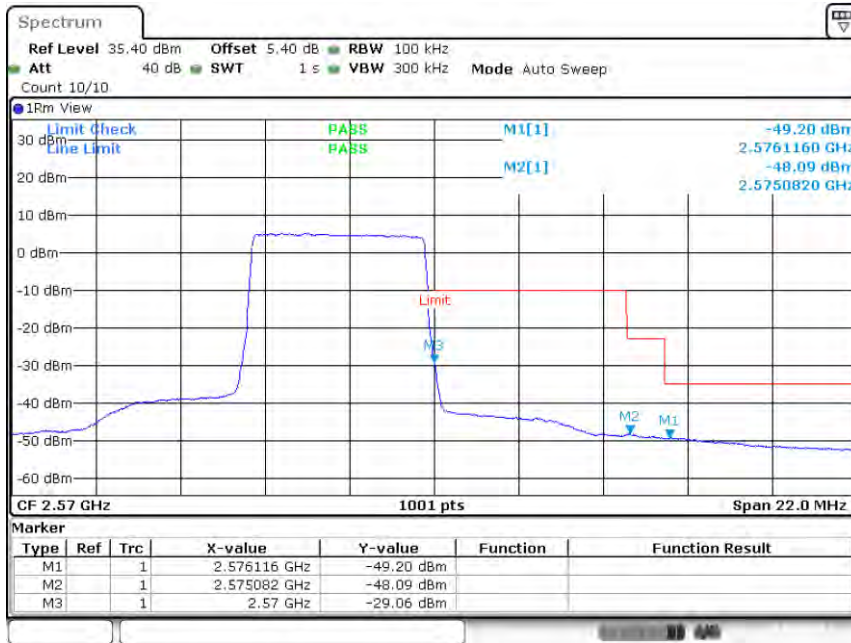


Date: 31 JUL 2020 19:19:39



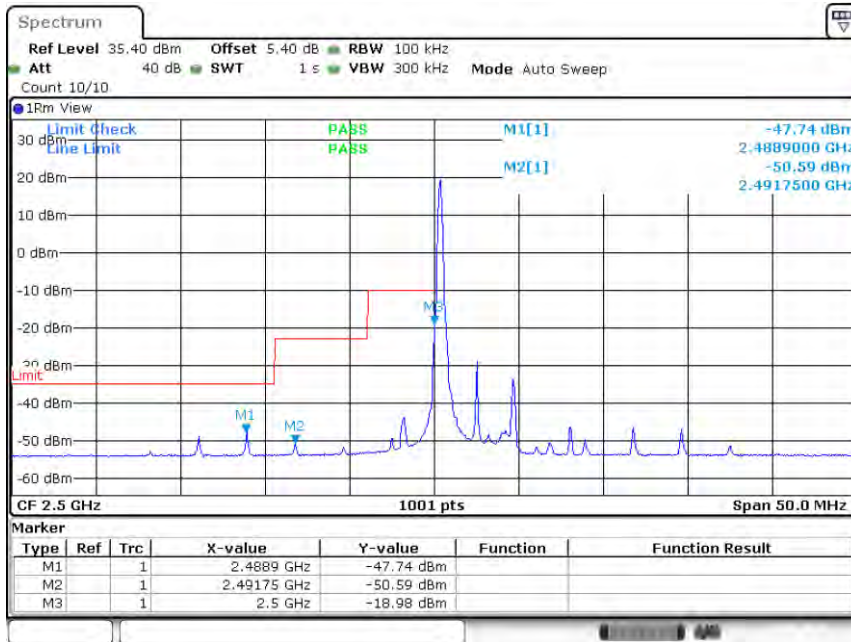
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**Band7-5MHz-64QAM-21425-25RB#0**



Date: 31 JUL 2020 19:20:26

**Band7-5MHz-16QAM-20775-1RB#0**



Date: 31 JUL 2020 18:57:53



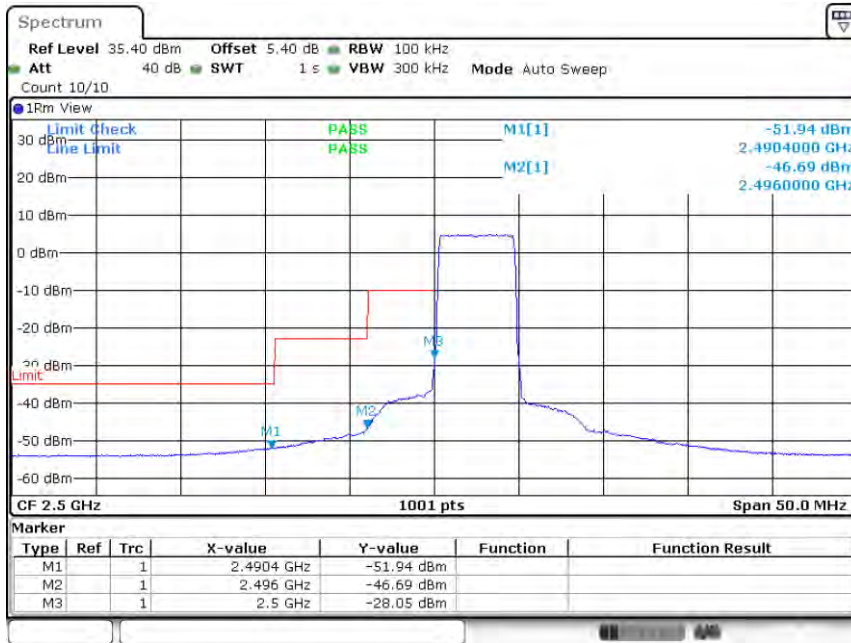
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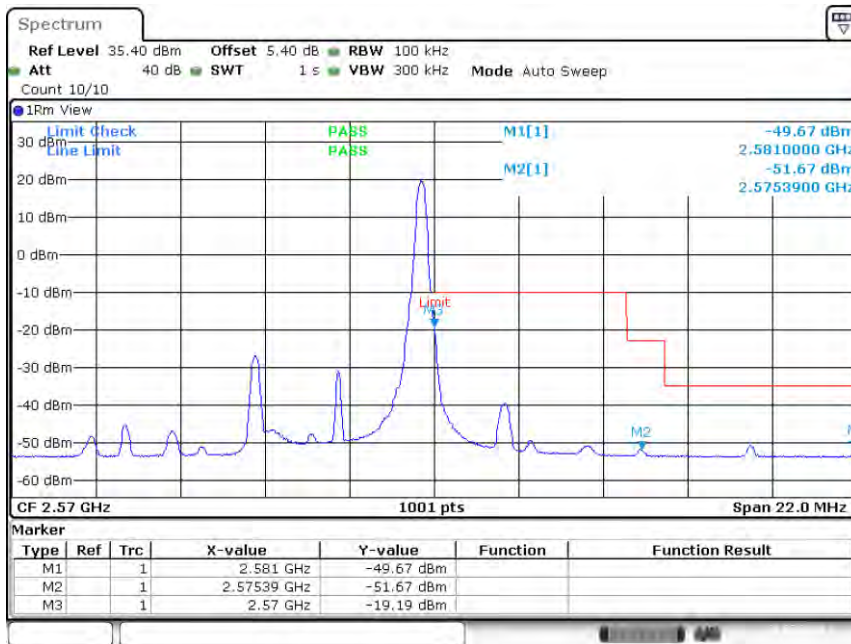


**Band7-5MHz-16QAM-20775-25RB#0**



Date: 31 JUL 2020 18:59:27

**Band7-5MHz-16QAM-21425-1RB#24**

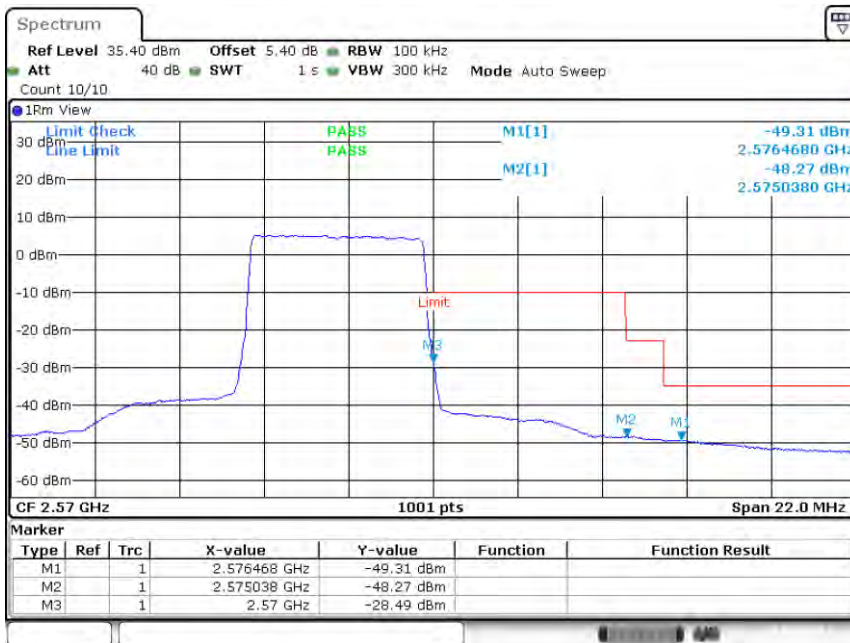


Date: 31 JUL 2020 18:58:40



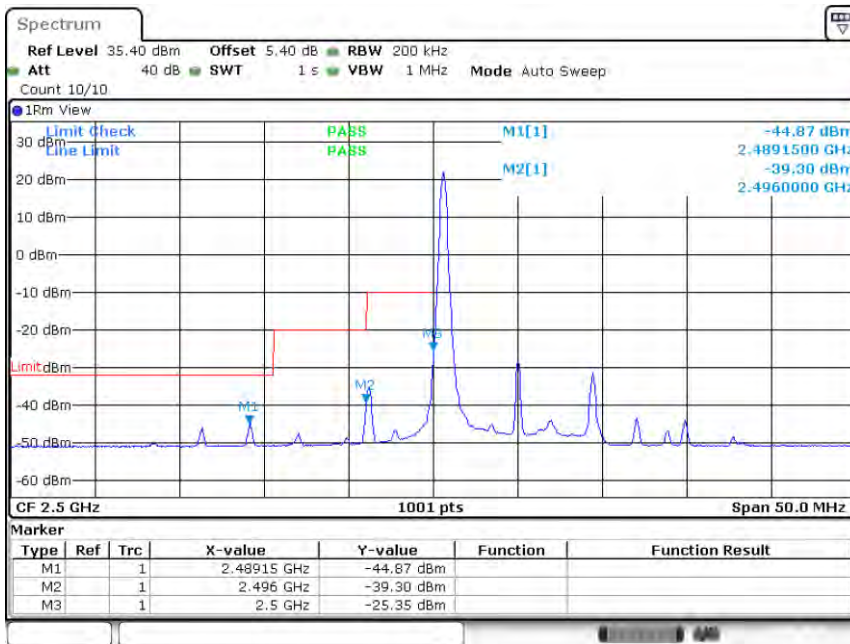
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**Band7-5MHz-16QAM-21425-25RB#0**



Date: 31 JUL 2020 19:00:10

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



Date: 31 JUL 2020 19:00:36

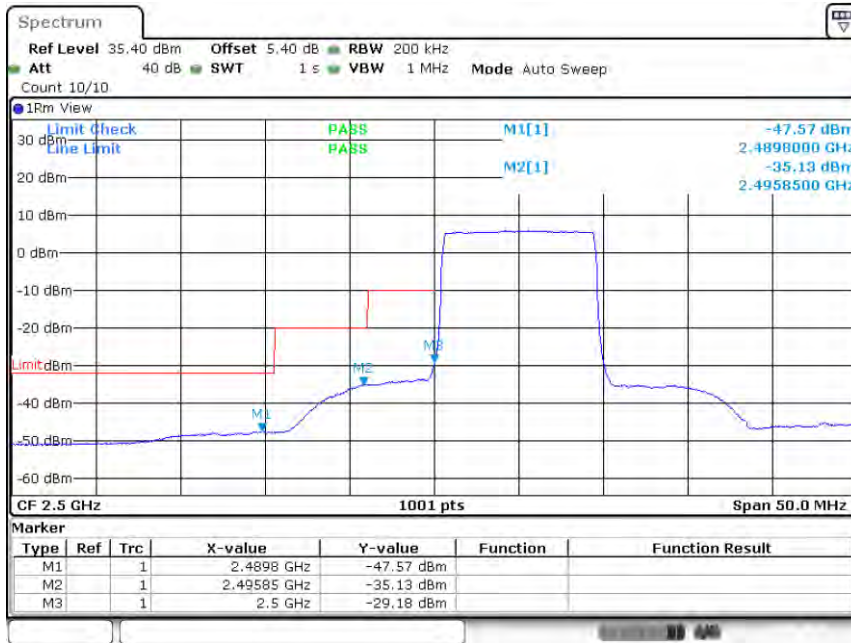


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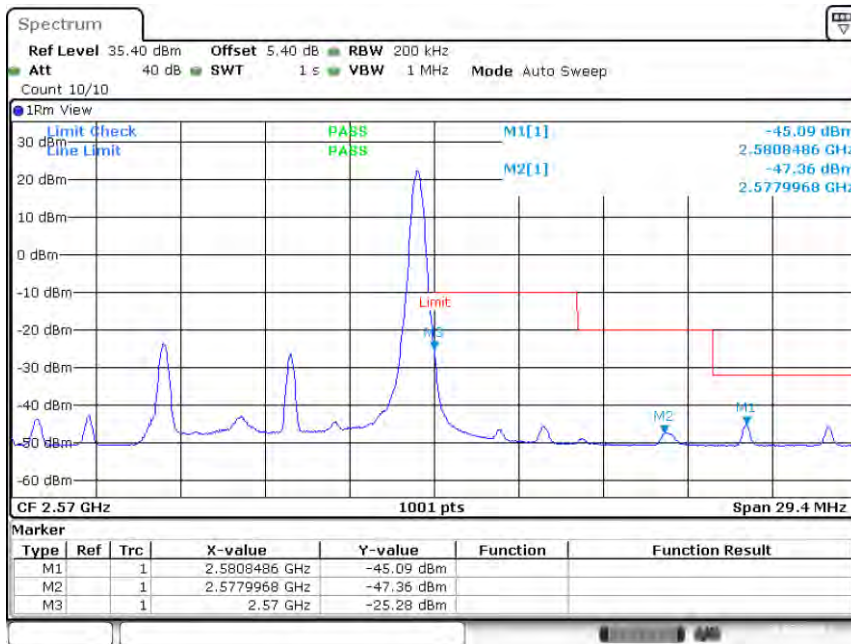


Band7-10MHz-QPSK-20800-50RB#0



Date: 31 JUL 2020 19:02:11

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

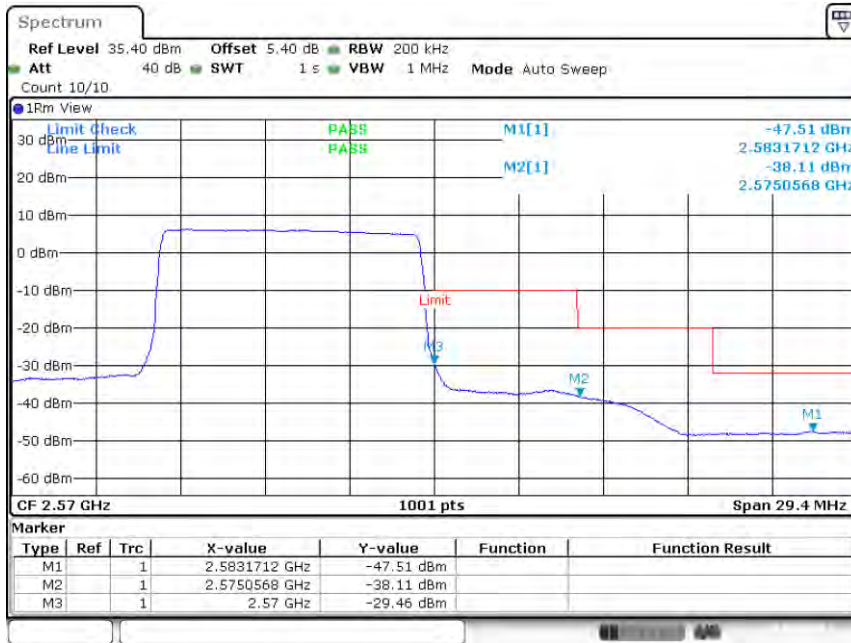


Date: 31 JUL 2020 19:01:23



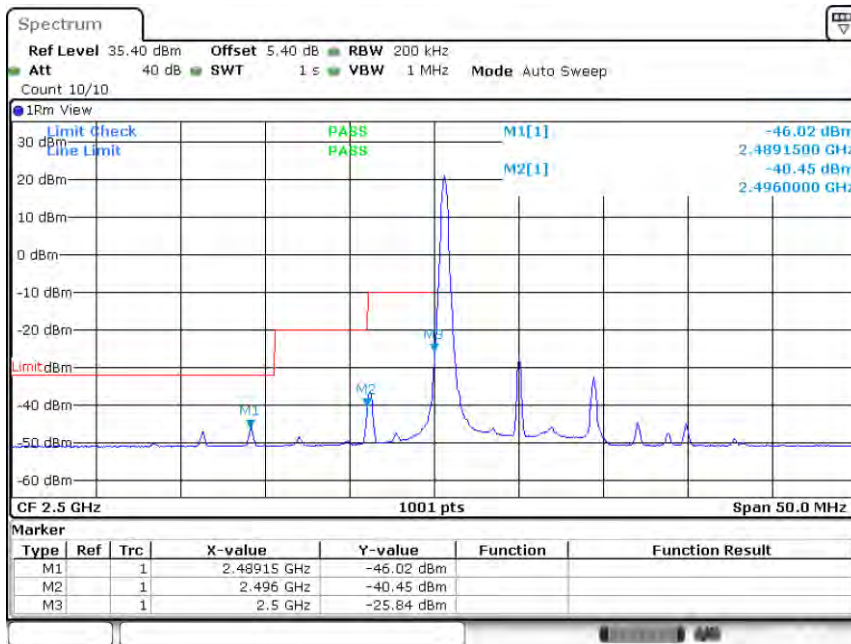
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**Band7-10MHz-QPSK-21400-50RB#0**



Date: 31 JUL 2020 19:02:57

**Band7-10MHz-64QAM-20800-1RB#0**



Date: 31 JUL 2020 19:20:52

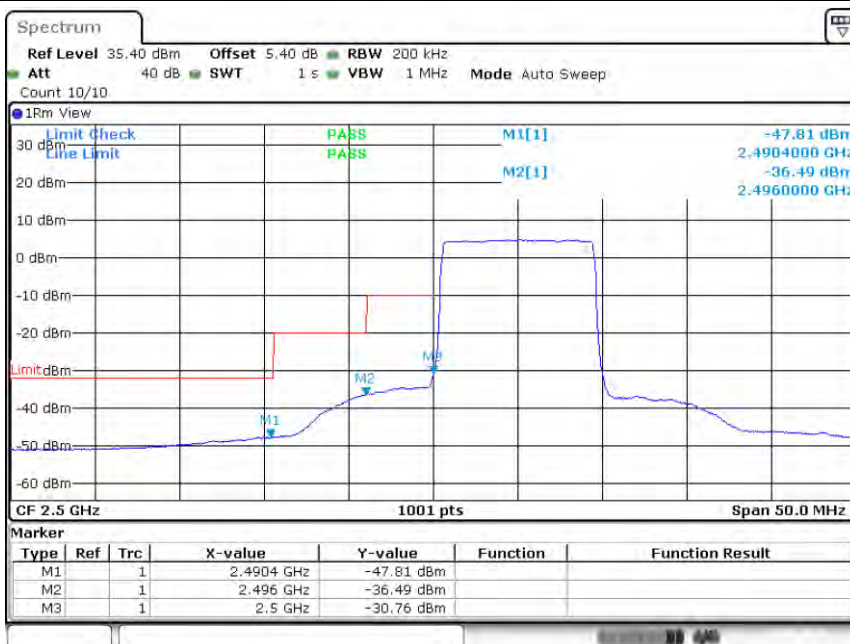


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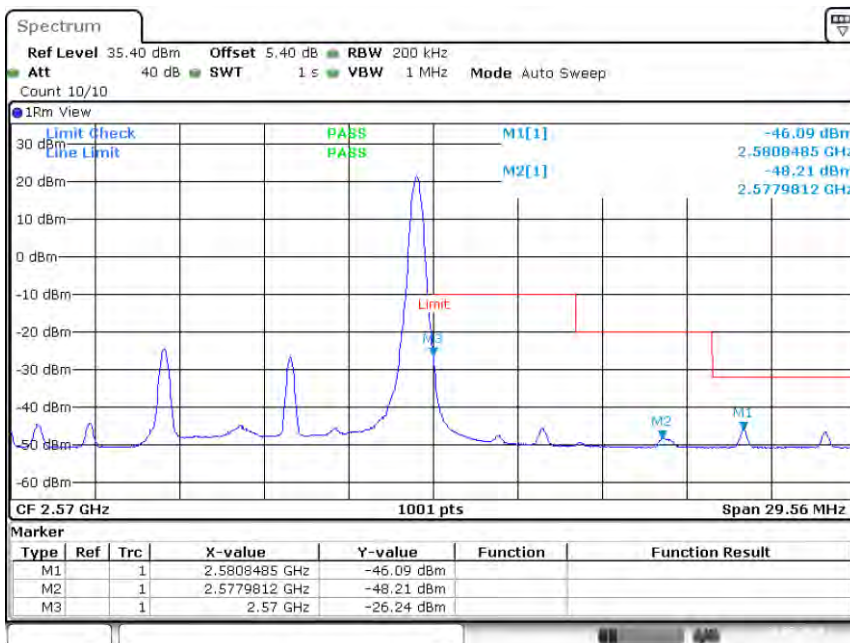


Band7-10MHz-64QAM-20800-50RB#0



Date: 31 JUL 2020 19:21:50

Band7-10MHz-64QAM-21400-1RB#49



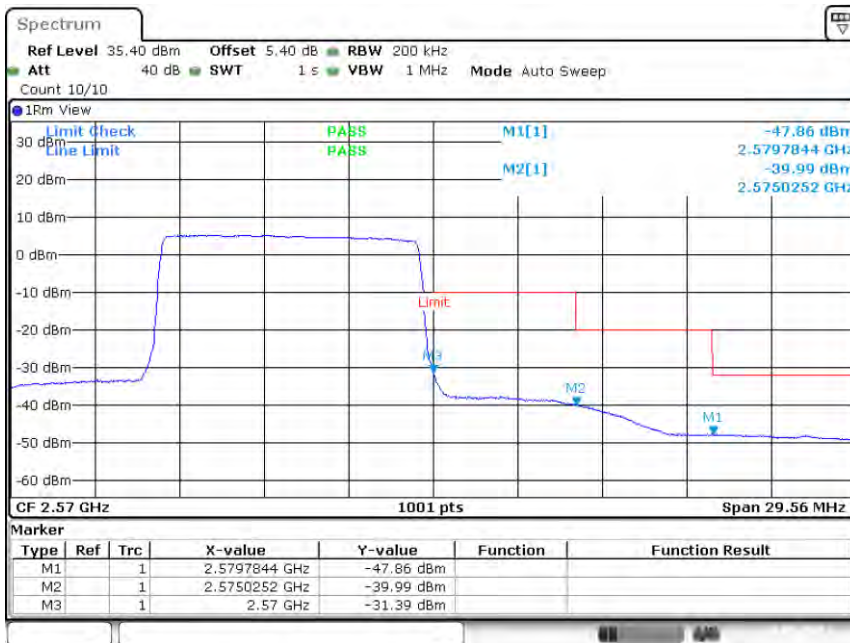
Date: 31 JUL 2020 19:21:25



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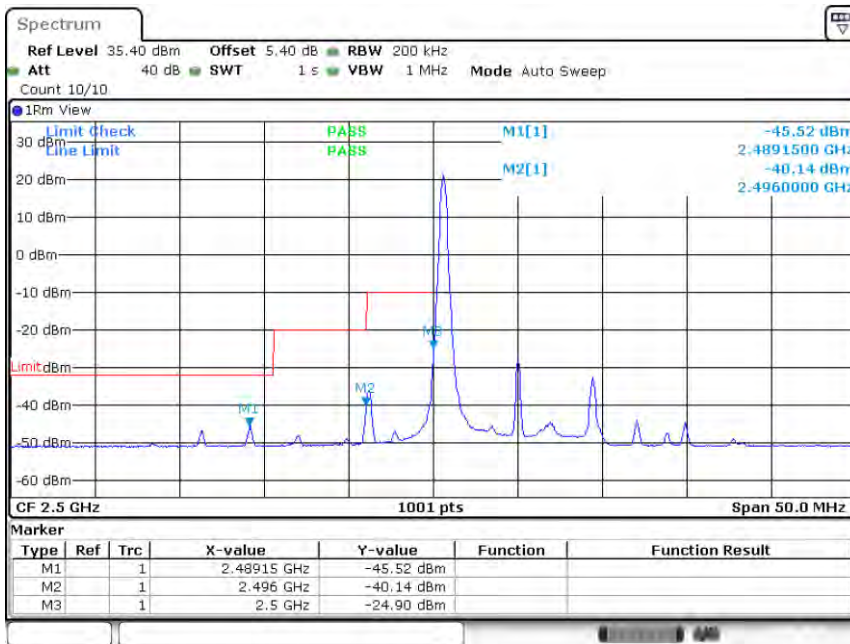


Band7-10MHz-64QAM-21400-50RB#0



Date: 31 JUL 2020 19:22:12

Band7-10MHz-16QAM-20800-1RB#0



Date: 31 JUL 2020 19:00:57

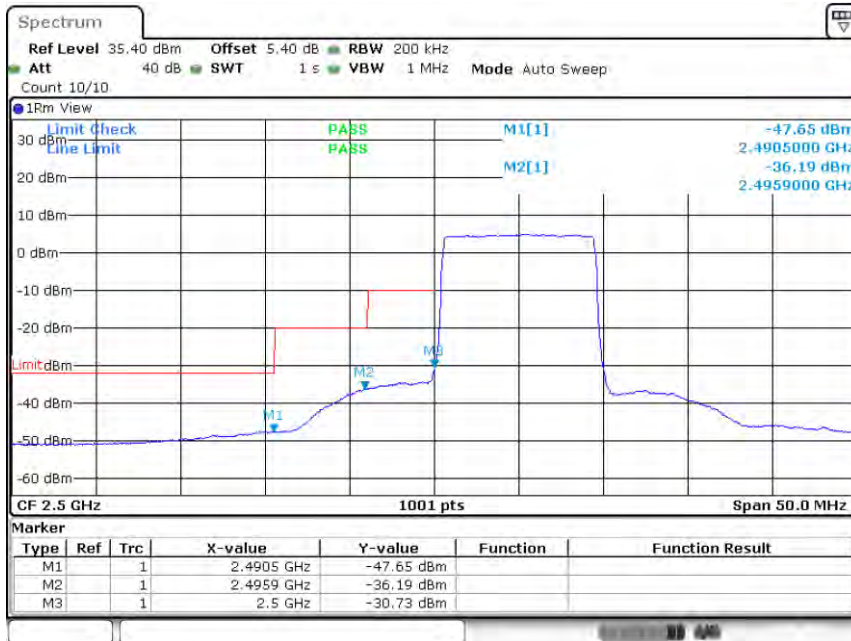


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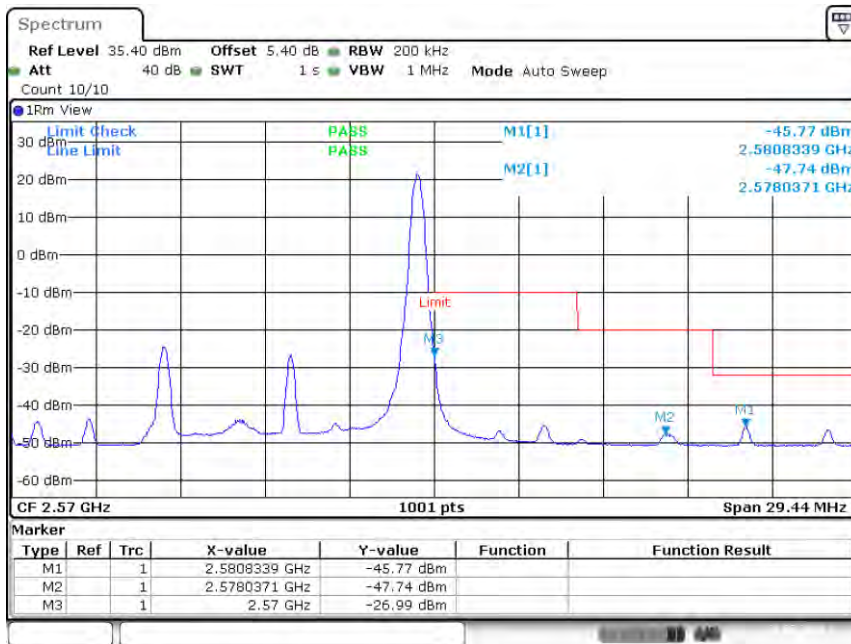


Band7-10MHz-16QAM-20800-50RB#0



Date: 31 JUL 2020 19:02:34

Band7-10MHz-16QAM-21400-1RB#49

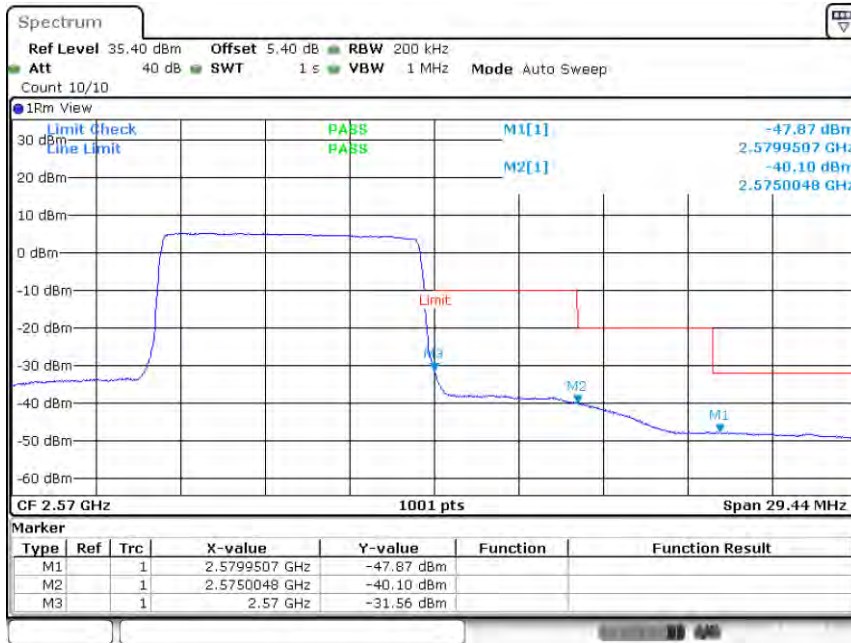


Date: 31 JUL 2020 19:01:44



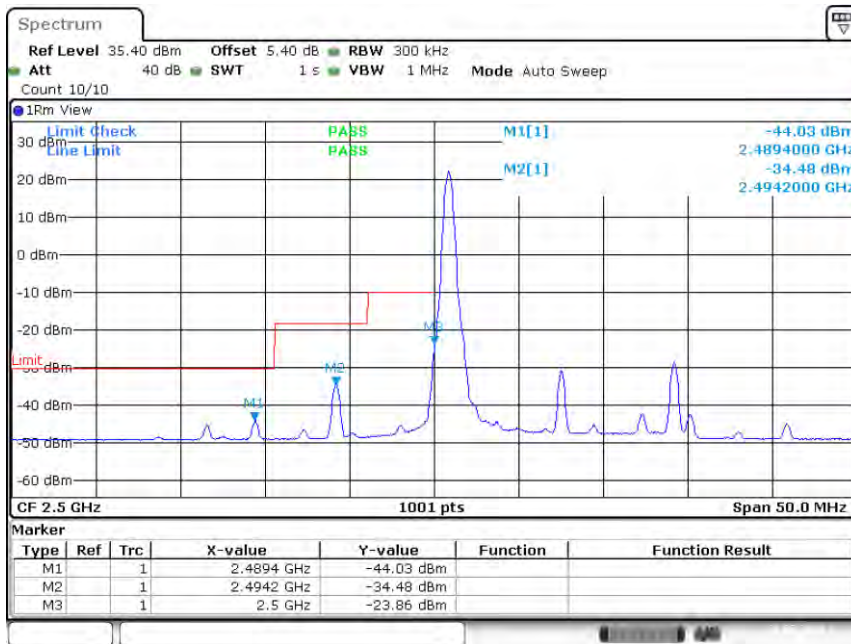
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**Band7-10MHz-16QAM-21400-50RB#0**



Date: 31 JUL 2020 19:03:18

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



Date: 31 JUL 2020 19:03:45



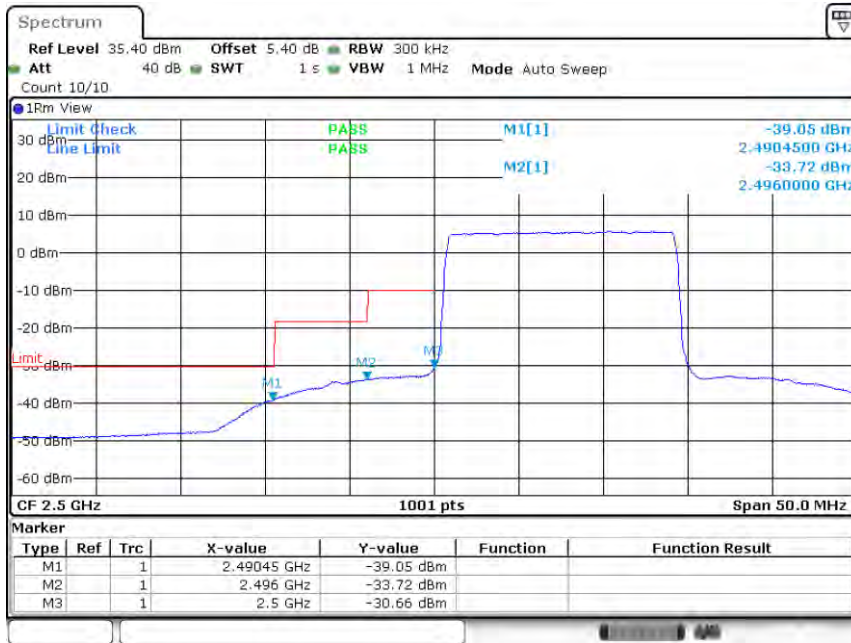
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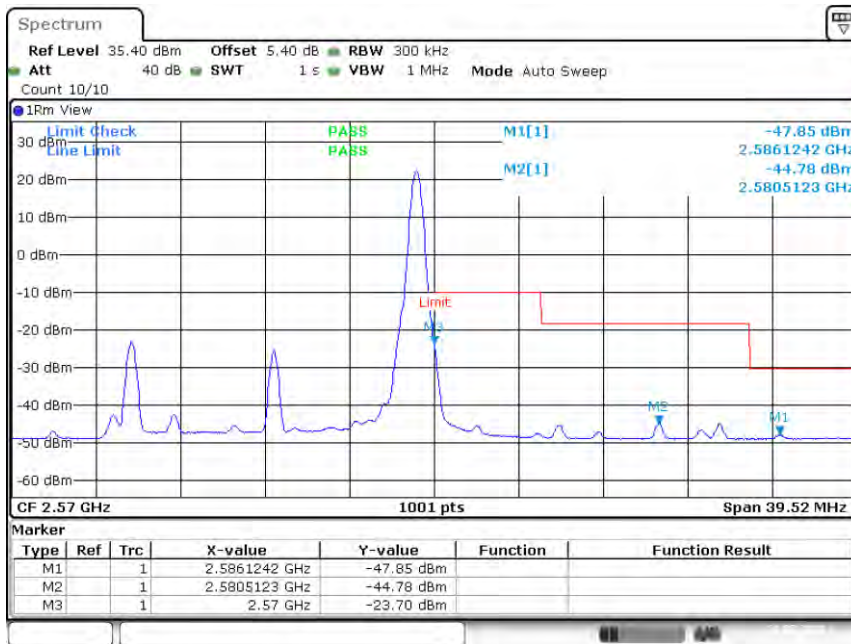


**Band7-15MHz-QPSK-20825-75RB#0**



Date: 31 JUL 2020 19:06:25

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



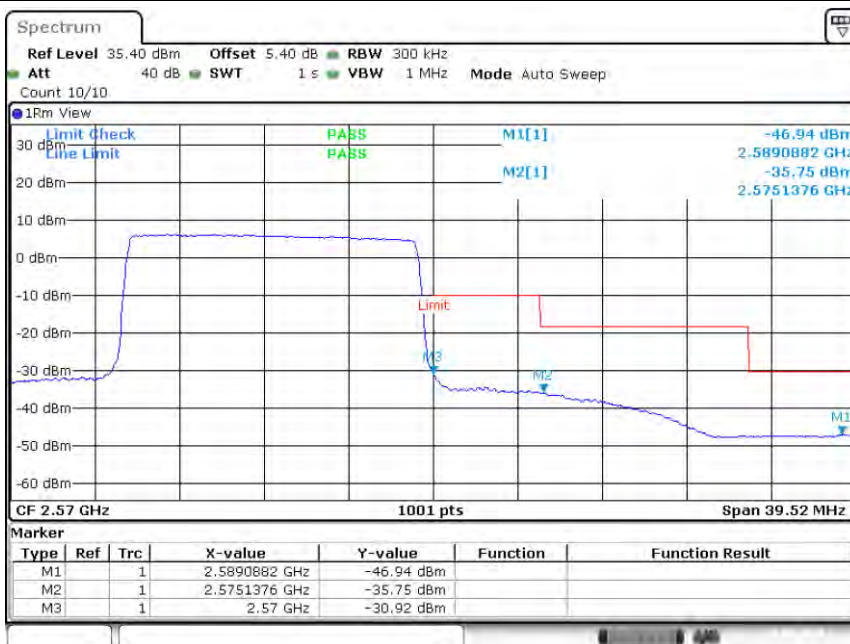
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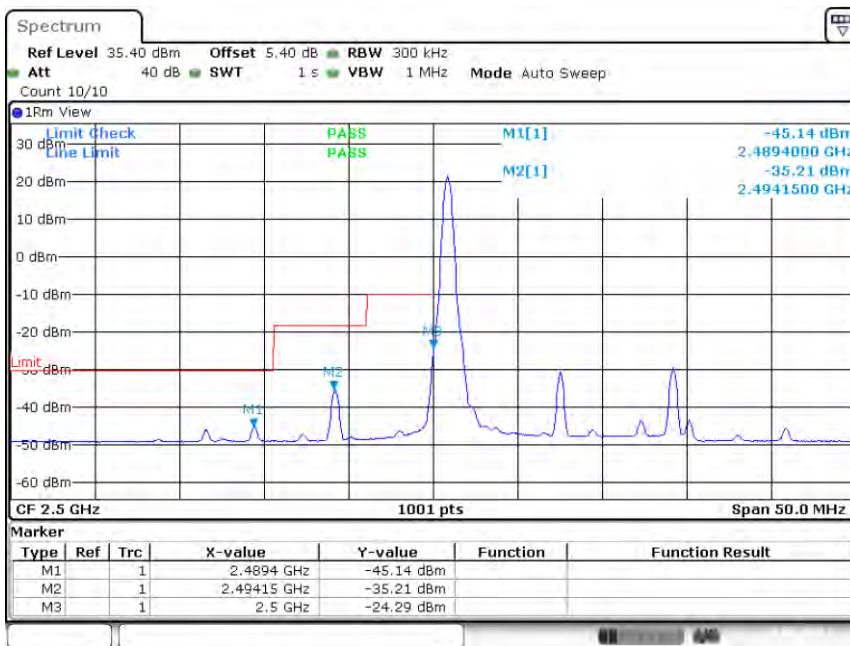


Band7-15MHz-QPSK-21375-75RB#0



Date: 31 JUL 2020 19:07:07

Band7-15MHz-64QAM-20825-1RB#0



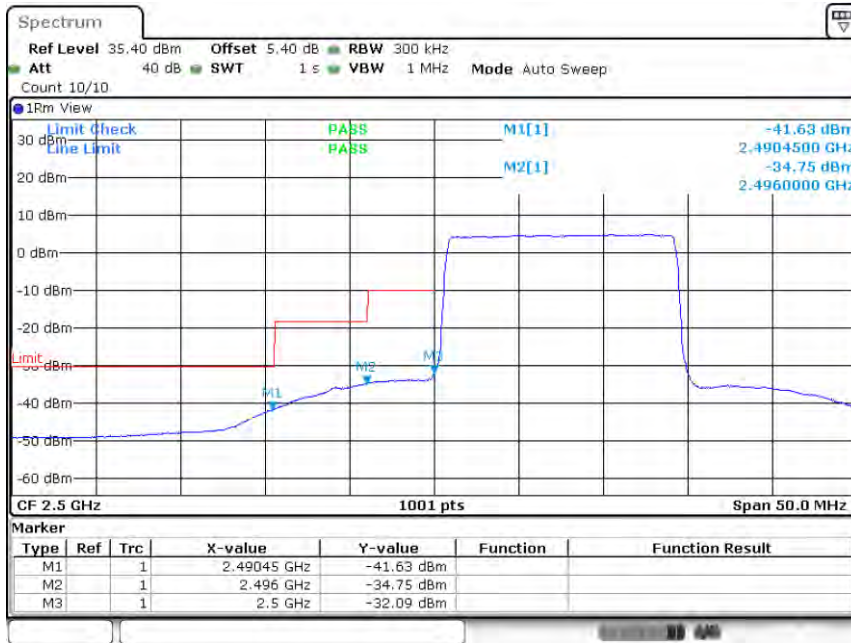
Date: 31 JUL 2020 19:22:38



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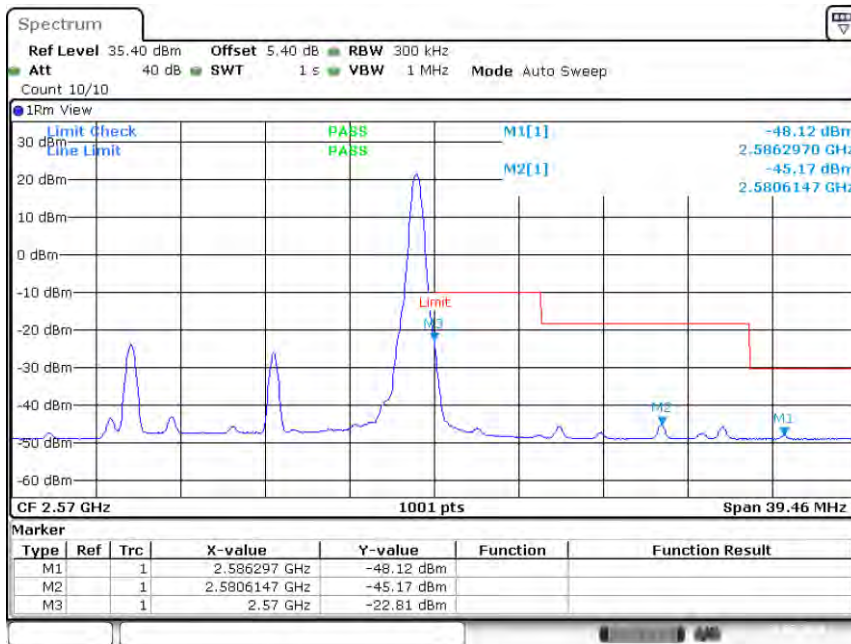


**Band7-15MHz-64QAM-20825-75RB#0**



Date: 31 JUL 2020 19:23:30

**Band7-15MHz-64QAM-21375-1RB#74**



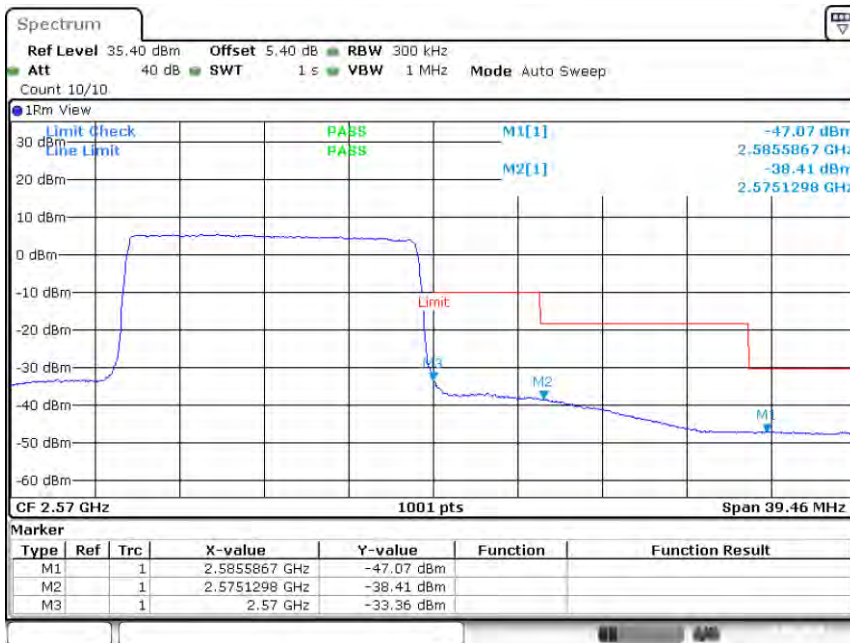
Date: 31 JUL 2020 19:23:04



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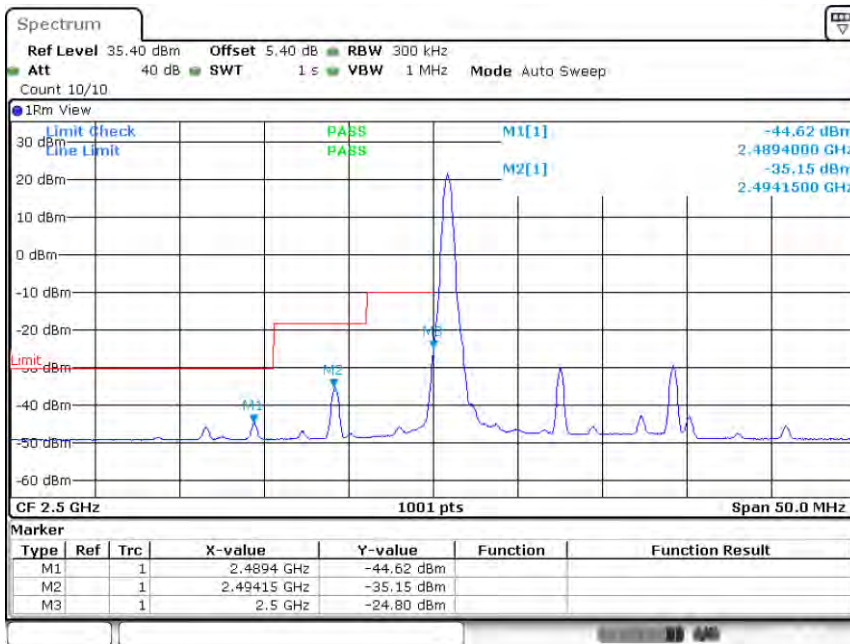


Band7-15MHz-64QAM-21375-75RB#0



Date: 31 JUL 2020 19:23:51

Band7-15MHz-16QAM-20825-1RB#0



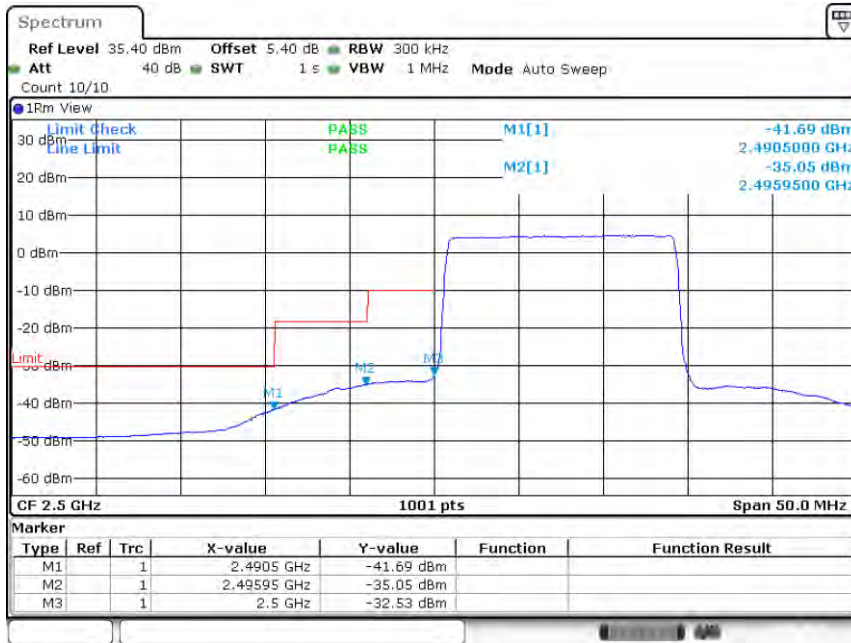
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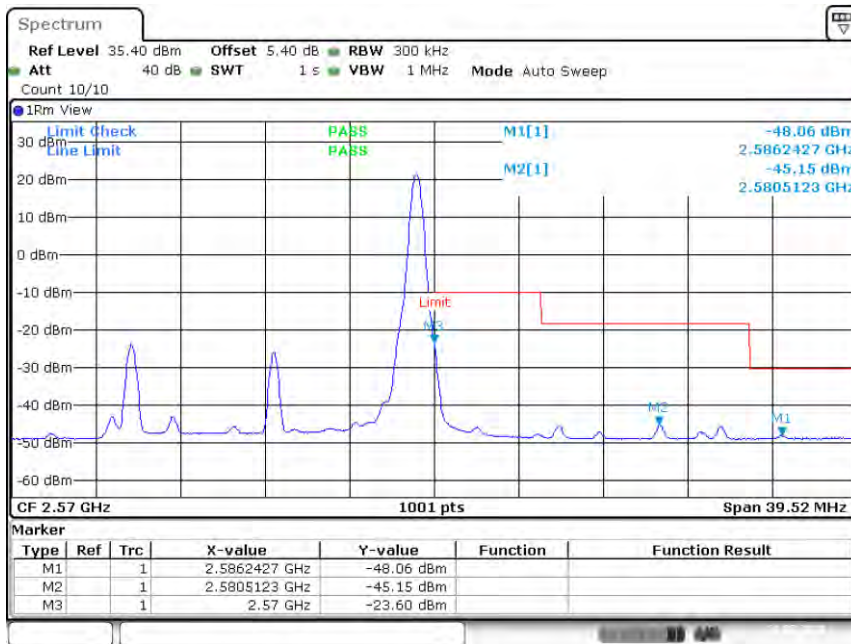


**Band7-15MHz-16QAM-20825-75RB#0**



Date: 31 JUL 2020 19:06:46

**Band7-15MHz-16QAM-21375-1RB#74**

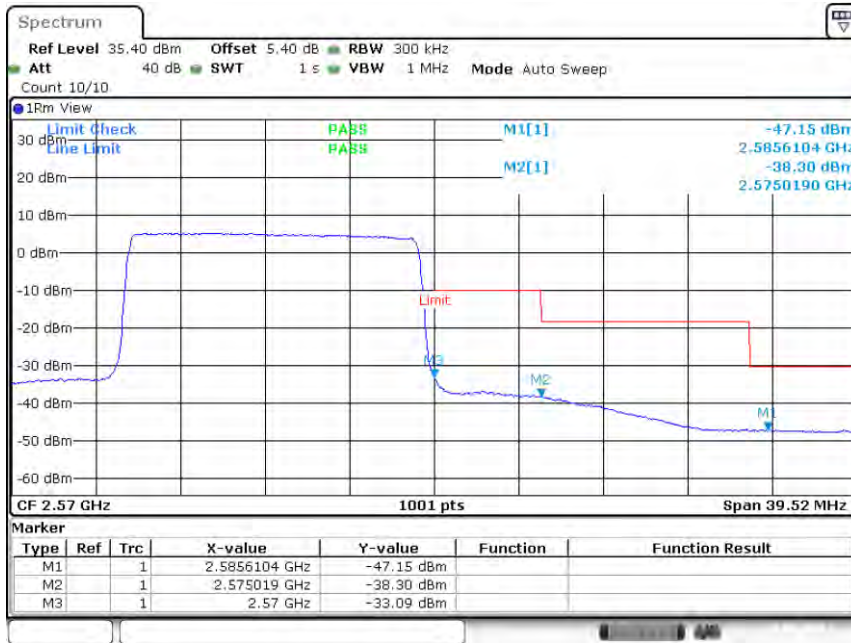


Date: 31 JUL 2020 19:05:59



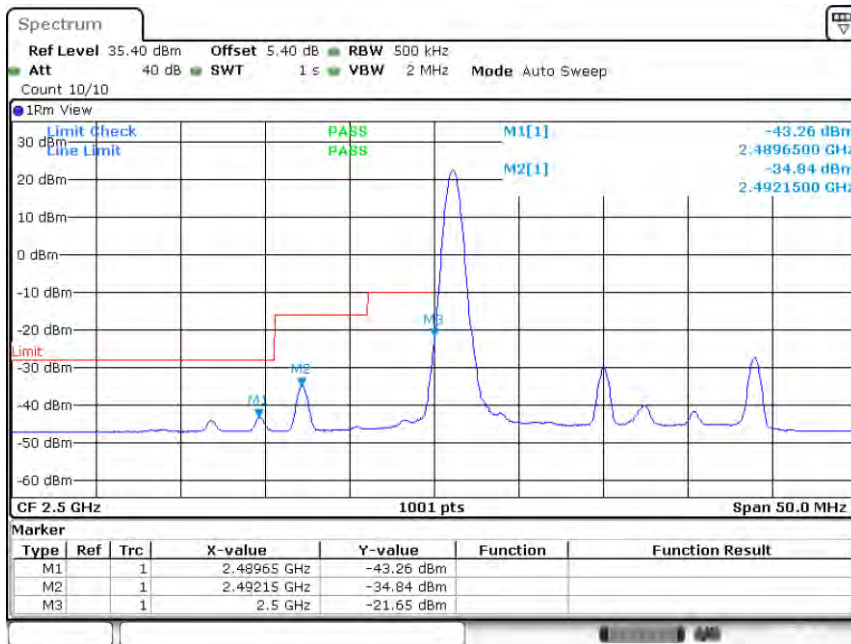
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**Band7-15MHz-16QAM-21375-75RB#0**



Date: 31 JUL 2020 19:07:29

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



Date: 31 JUL 2020 19:07:55

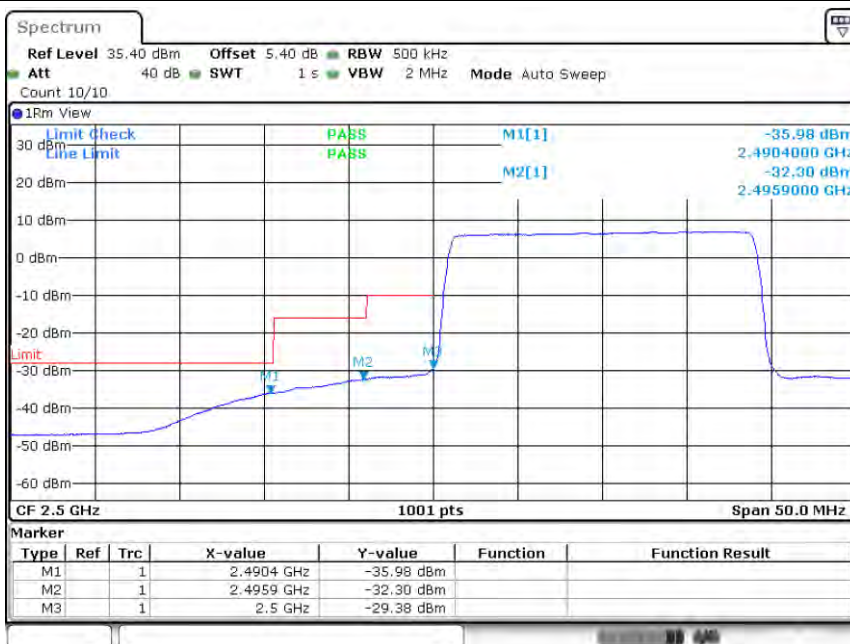


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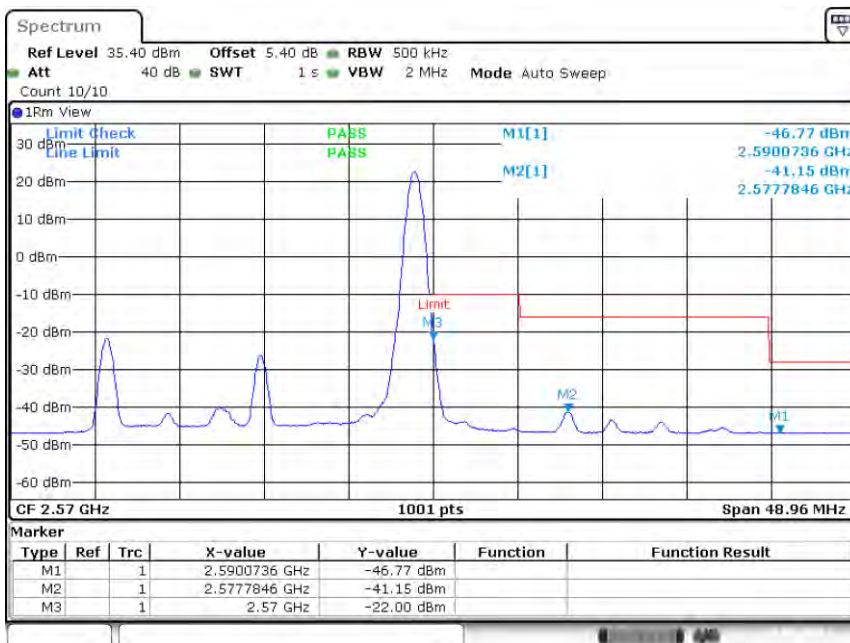


Band7-20MHz-QPSK-20850-100RB#0



Date: 31 JUL 2020 19:09:33

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

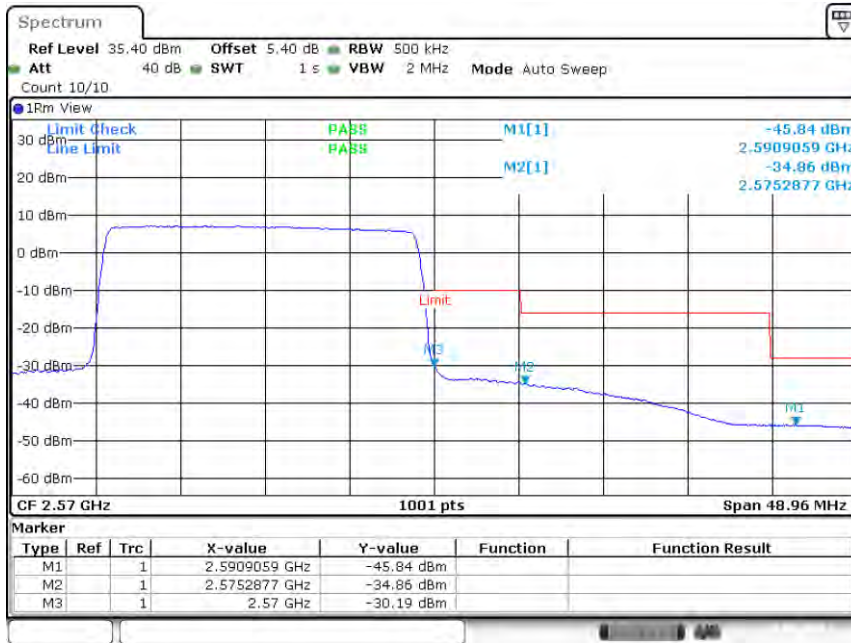


Date: 31 JUL 2020 19:08:45



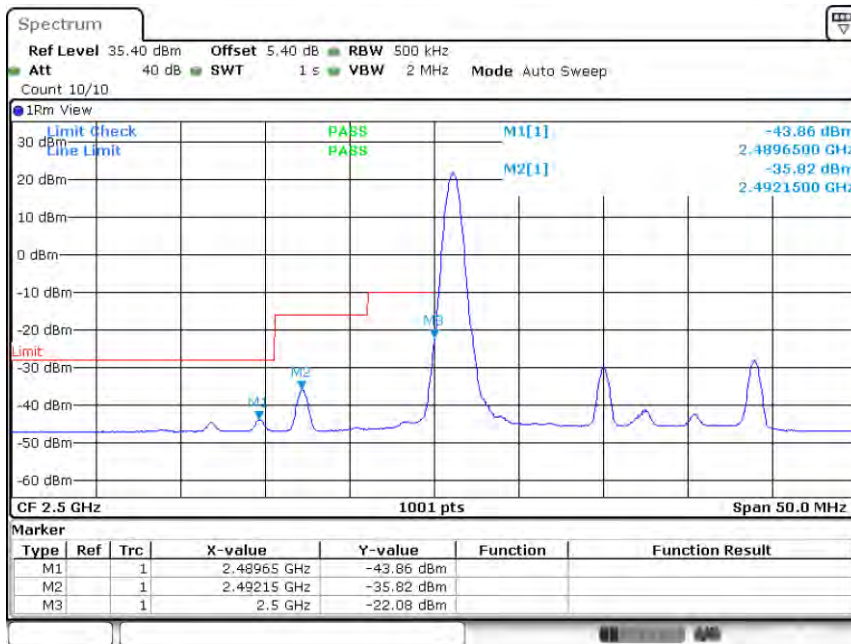
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**Band7-20MHz-QPSK-21350-100RB#0**



Date: 31 JUL 2020 19:10:18

**Band7-20MHz-64QAM-20850-1RB#0**



Date: 31 JUL 2020 19:24:18



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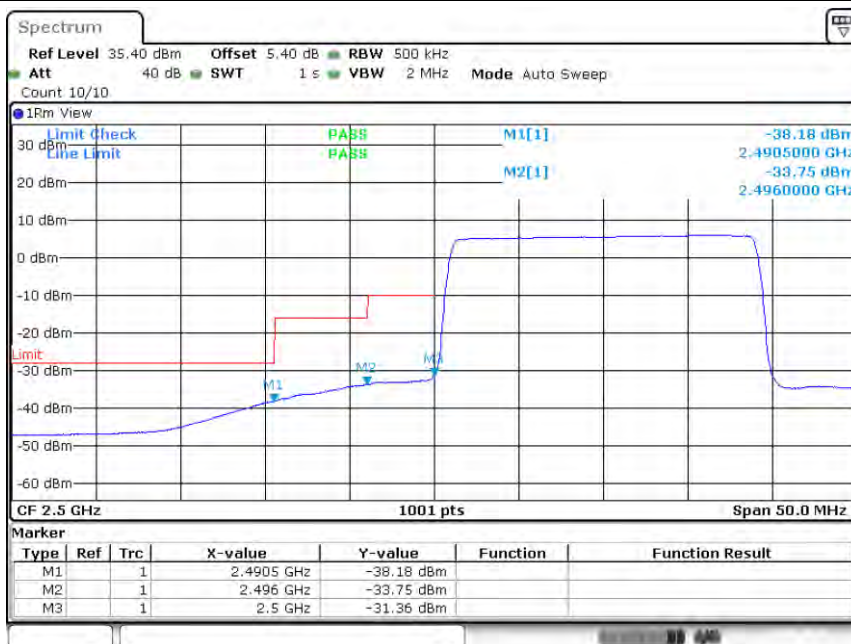
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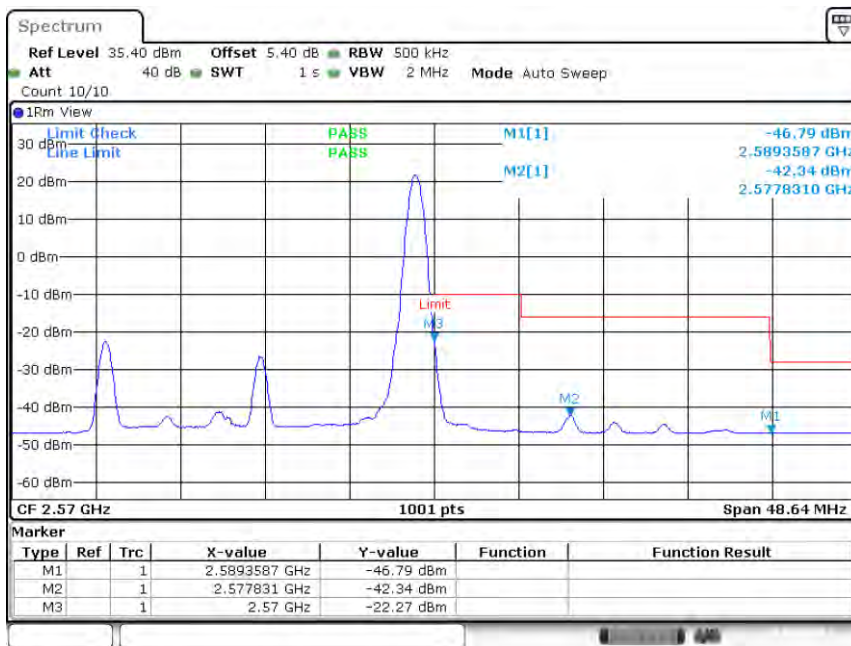


**Band7-20MHz-64QAM-20850-100RB#0**



Date: 31 JUL 2020 19:25:09

**Band7-20MHz-64QAM-21350-1RB#99**



Date: 31 JUL 2020 19:24:44

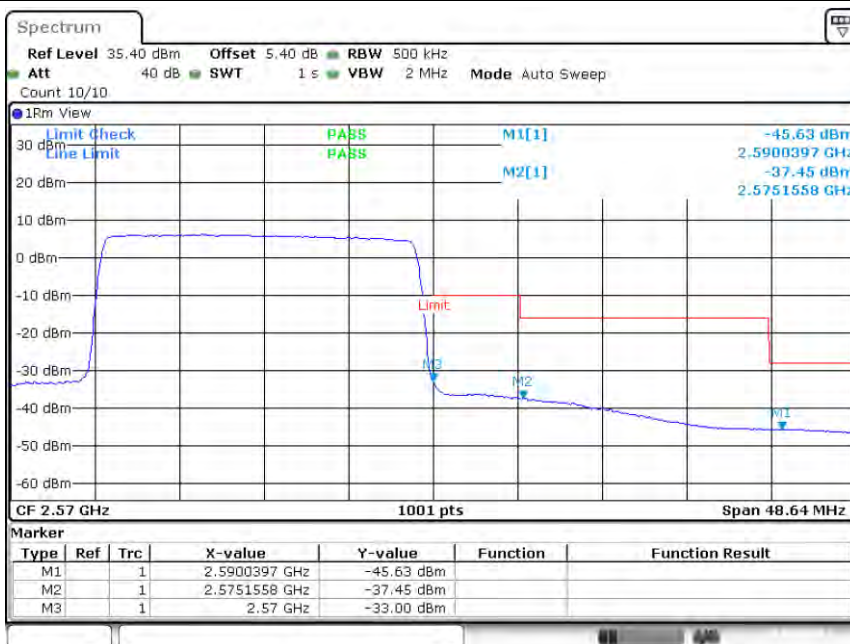


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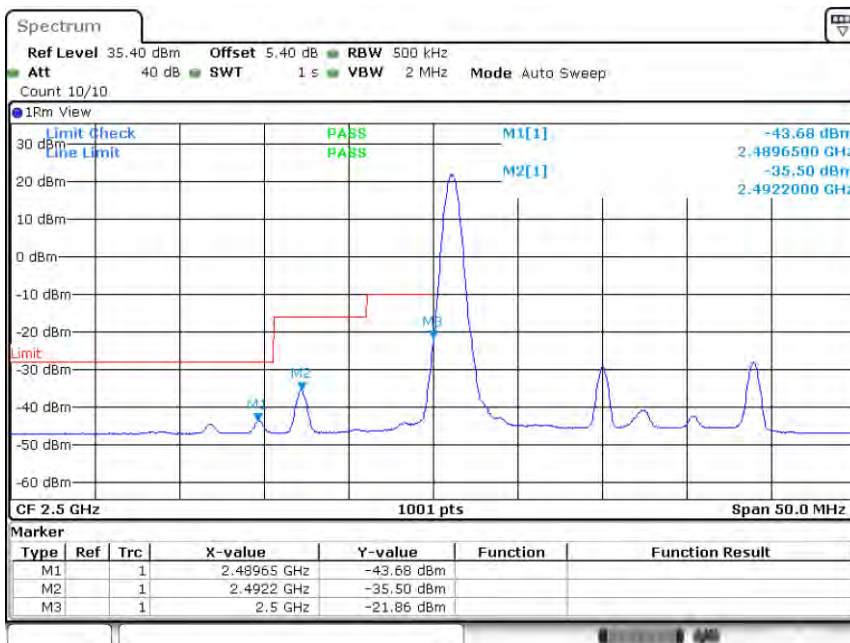


Band7-20MHz-64QAM-21350-100RB#0



Date: 31 JUL 2020 19:25:31

Band7-20MHz-16QAM-20850-1RB#0



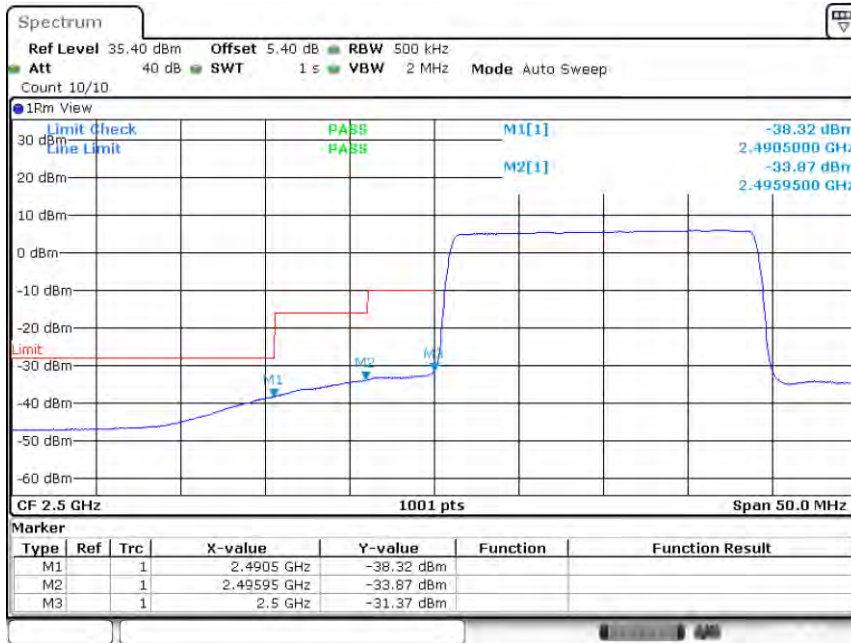
Date: 31 JUL 2020 19:08:18



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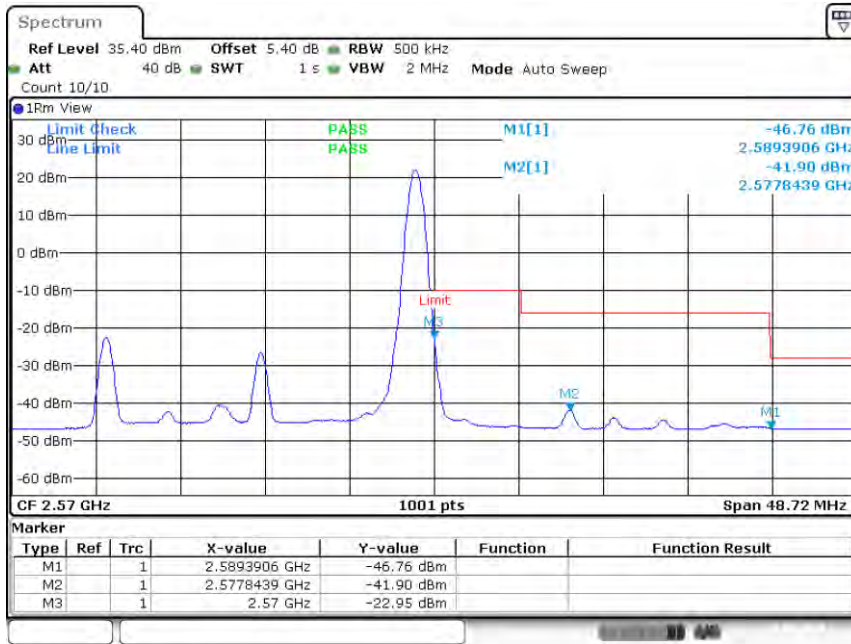


**Band7-20MHz-16QAM-20850-100RB#0**



Date: 31 JUL 2020 19:09:55

**Band7-20MHz-16QAM-21350-1RB#99**

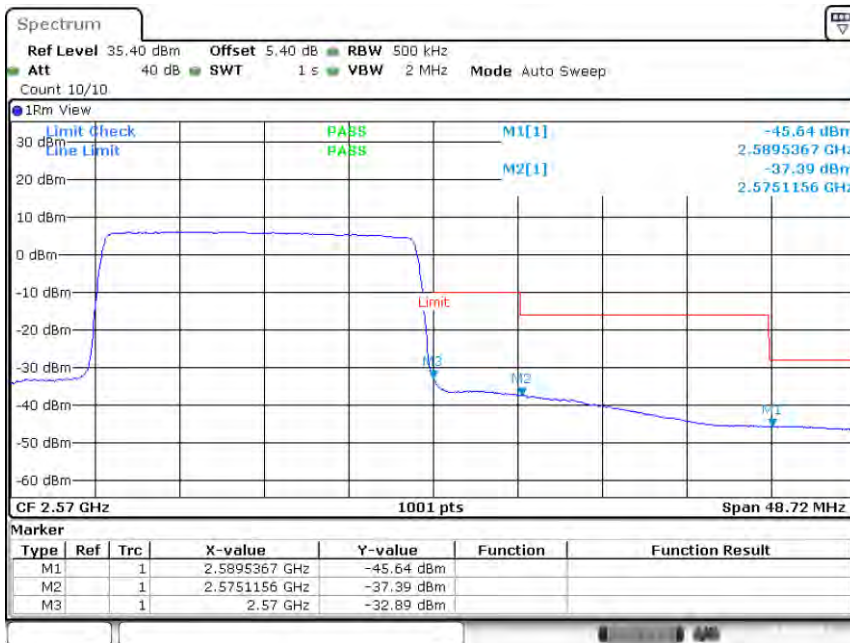


Date: 31 JUL 2020 19:09:06



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



Date: 31 JUL 2020 19:10:39



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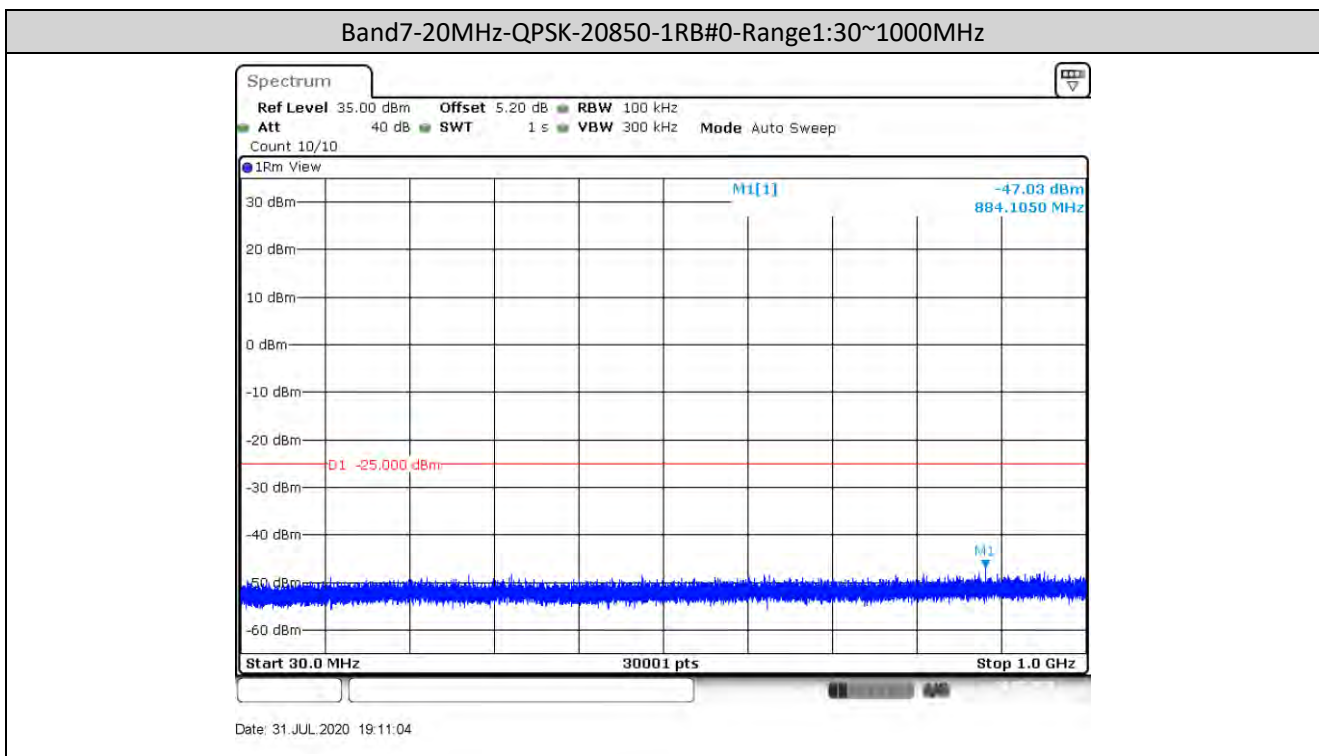


## 6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (\text{Span} / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

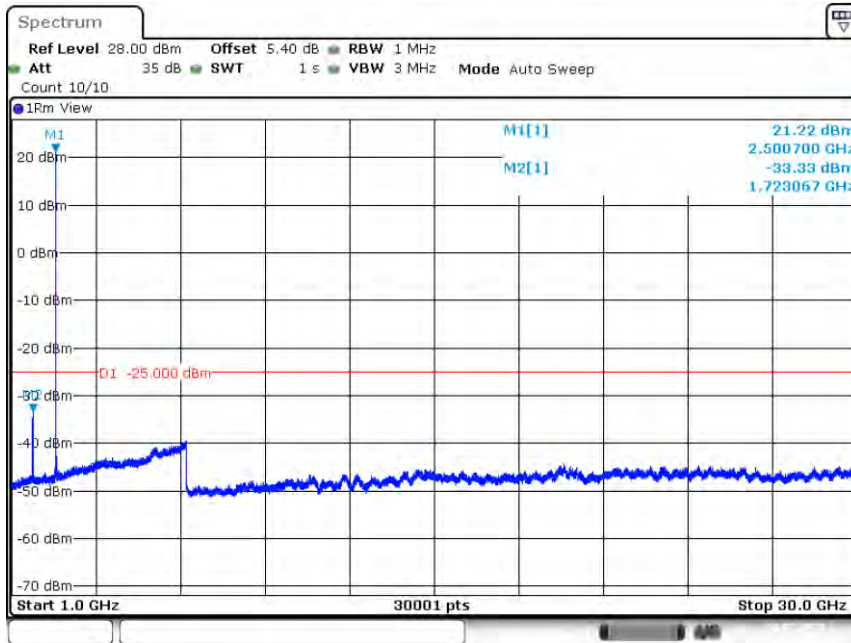
### 6.1. Test Plots



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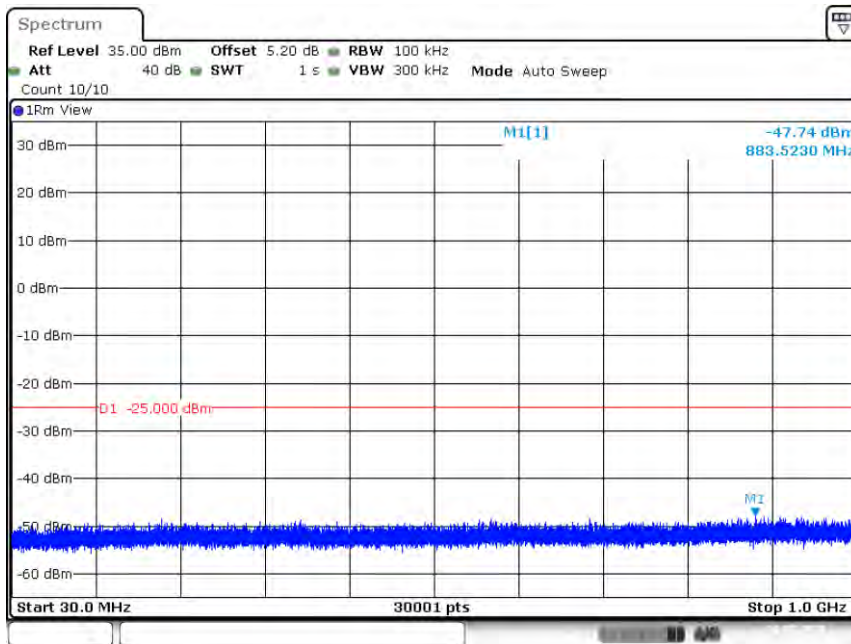
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**Band7-20MHz-QPSK-20850-1RB#0-Range2:1000~30000MHz**



Date: 31 JUL 2020 19:11:21

**Band7-20MHz-QPSK-21100-1RB#0-Range1:30~1000MHz**



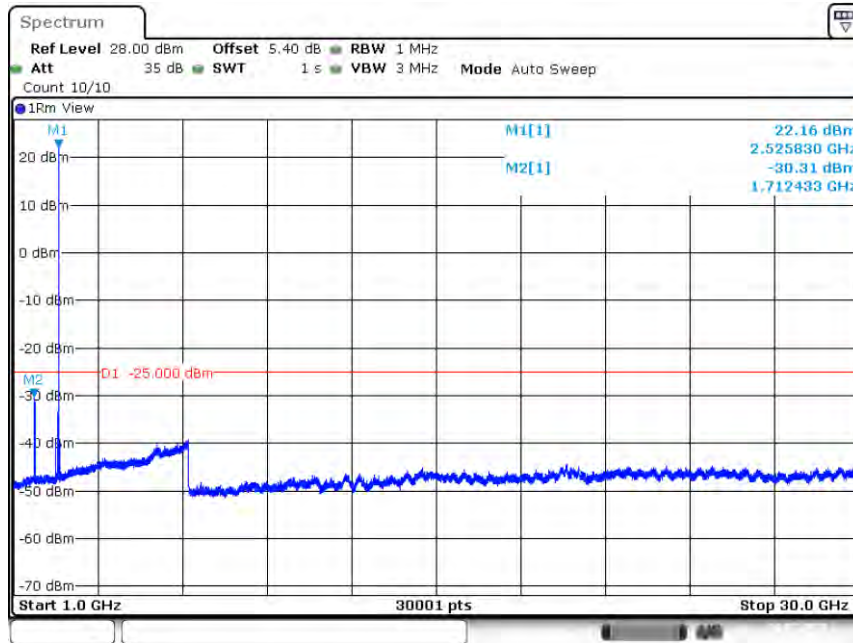
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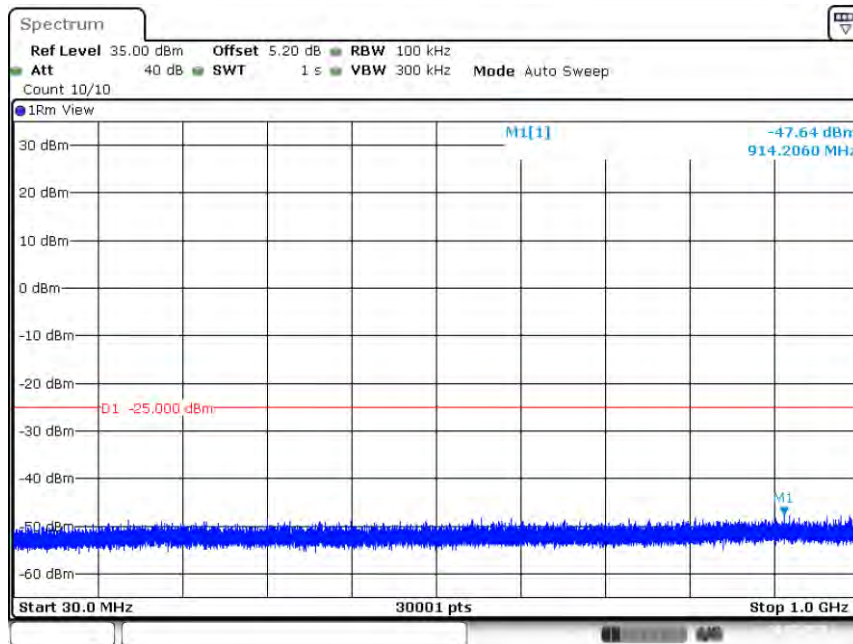


**Band7-20MHz-QPSK-21100-1RB#0-Range2:1000~30000MHz**



Date: 31 JUL 2020 19:12:32

**Band7-20MHz-QPSK-21350-1RB#0-Range1:30~1000MHz**

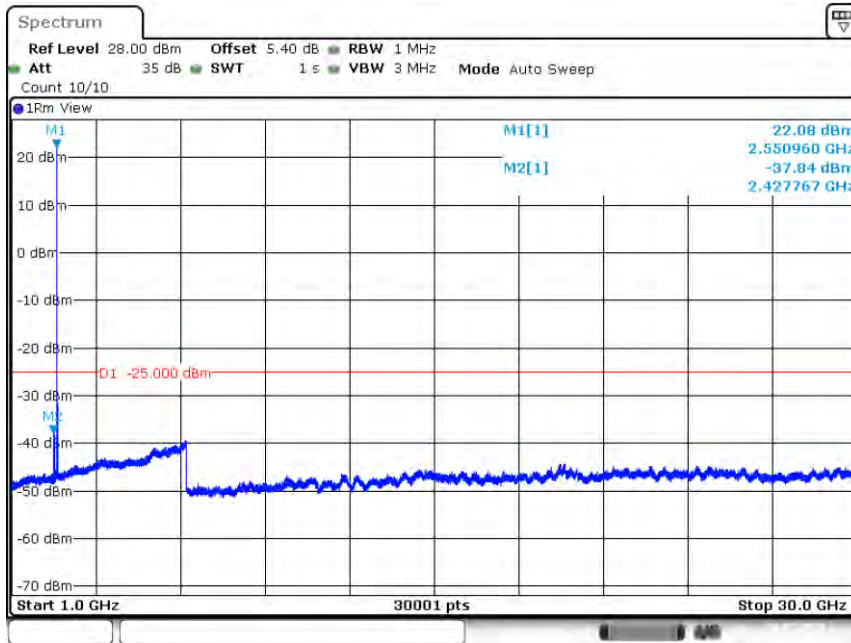


Date: 31 JUL 2020 19:13:28



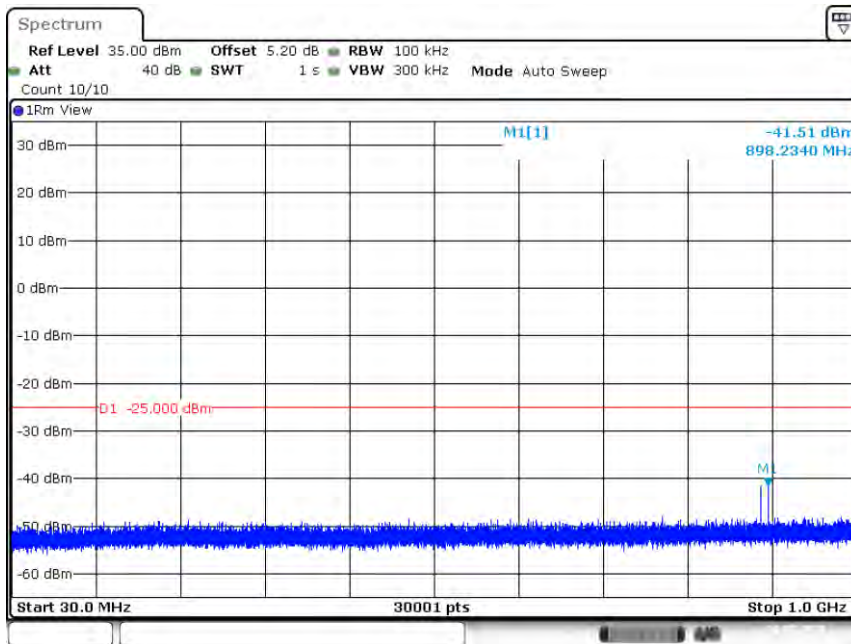
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**Band7-20MHz-QPSK-21350-1RB#0-Range2:1000~30000MHz**



Date: 31 JUL 2020 19:13:44

**Band7-20MHz-64QAM-20850-1RB#0-Range1:30~1000MHz**



Date: 31 JUL 2020 19:25:54

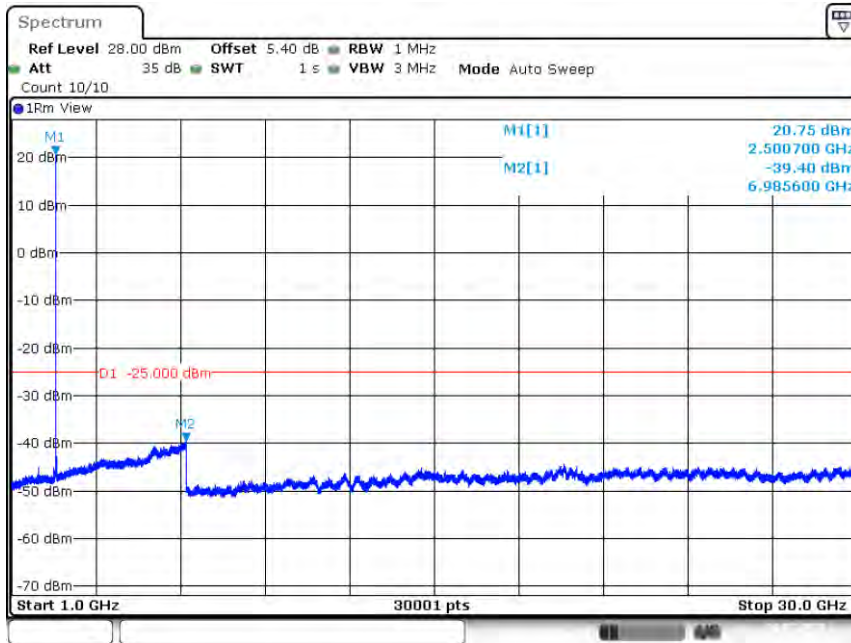


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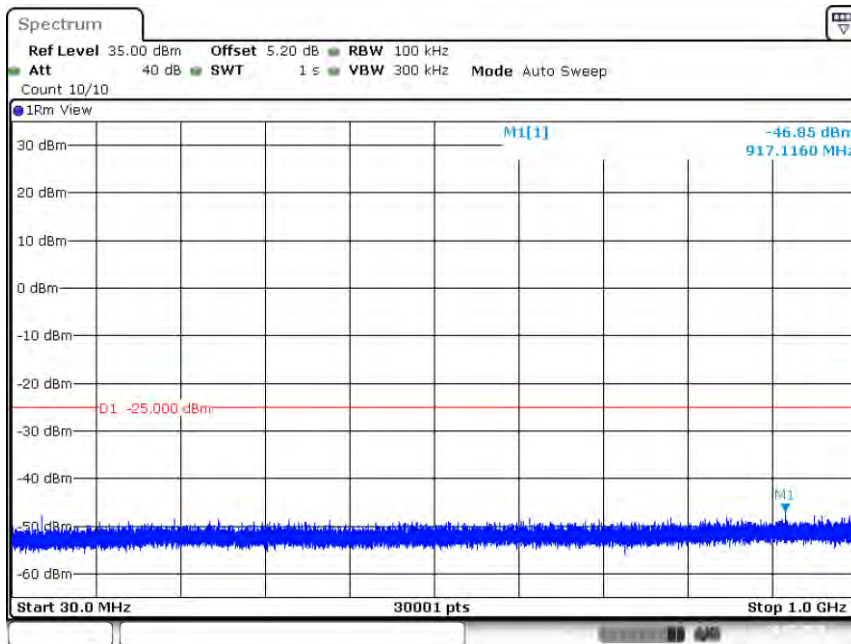


**Band7-20MHz-64QAM-20850-1RB#0-Range2:1000~30000MHz**



Date: 31 JUL 2020 19:26:11

**Band7-20MHz-64QAM-21100-1RB#0-Range1:30~1000MHz**

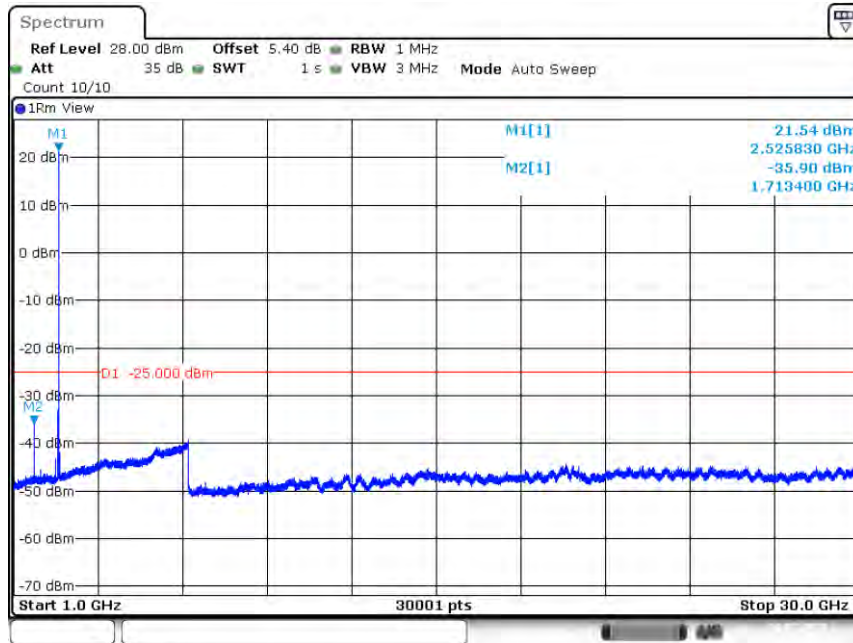


Date: 31 JUL 2020 19:26:30



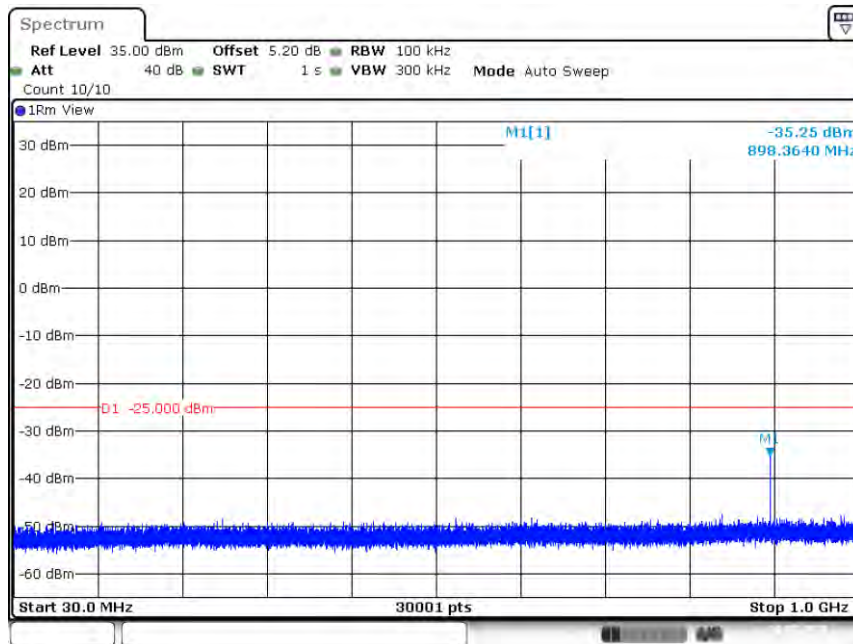
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**Band7-20MHz-64QAM-21100-1RB#0-Range2:1000~30000MHz**



Date: 31 JUL 2020 19:26:46

**Band7-20MHz-64QAM-21350-1RB#0-Range1:30~1000MHz**



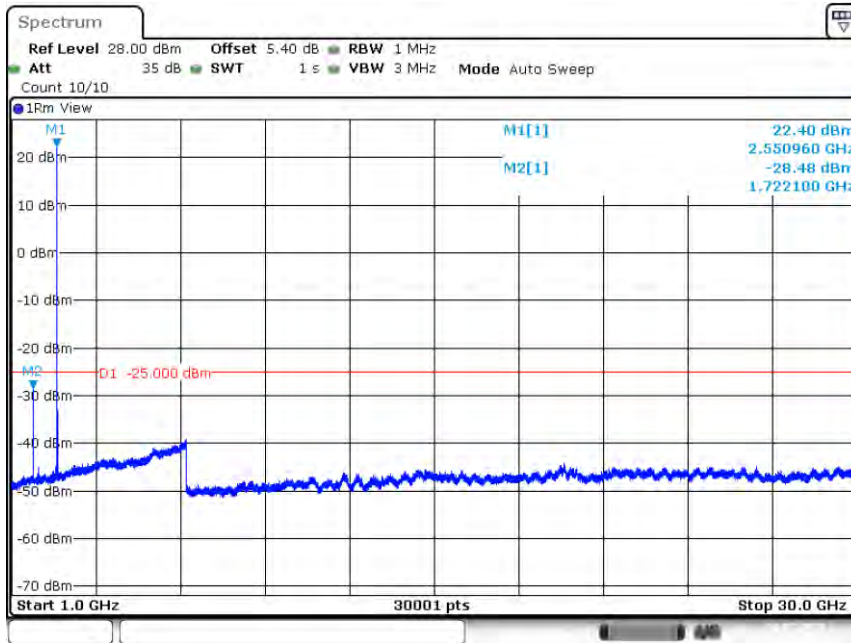
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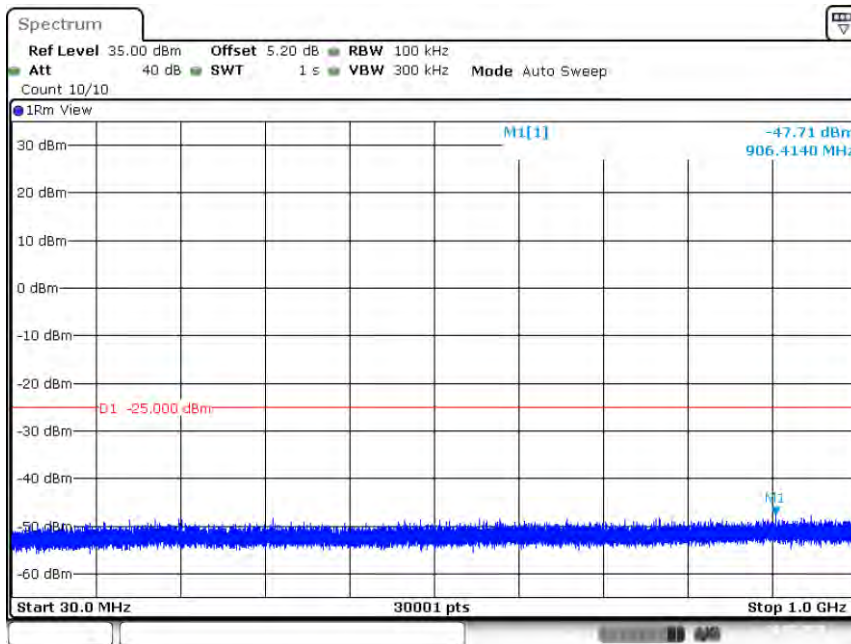


**Band7-20MHz-64QAM-21350-1RB#0-Range2:1000~30000MHz**



Date: 31 JUL 2020 19:27:21

**Band7-20MHz-16QAM-20850-1RB#0-Range1:30~1000MHz**



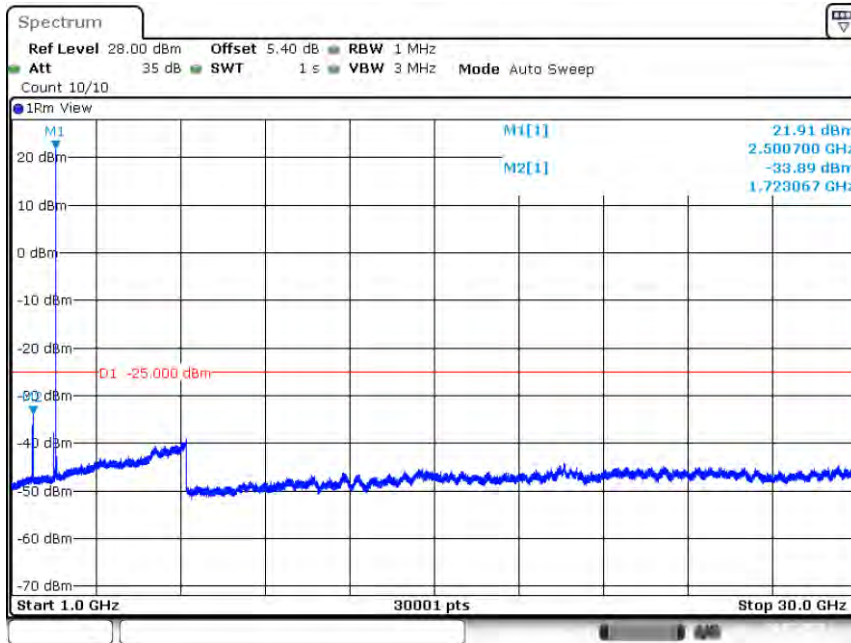
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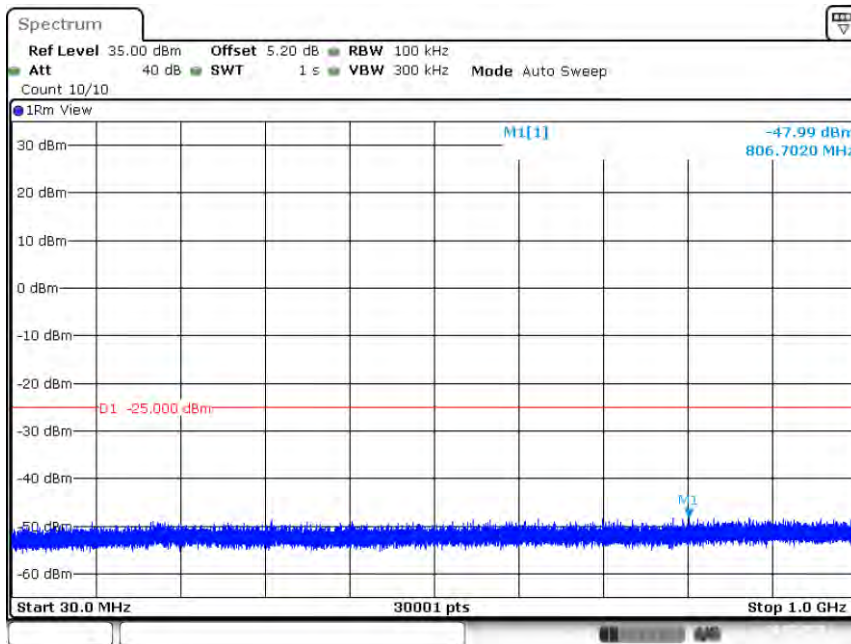
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**Band7-20MHz-16QAM-20850-1RB#0-Range2:1000~30000MHz**



Date: 31 JUL 2020 19:11:56

**Band7-20MHz-16QAM-21100-1RB#0-Range1:30~1000MHz**



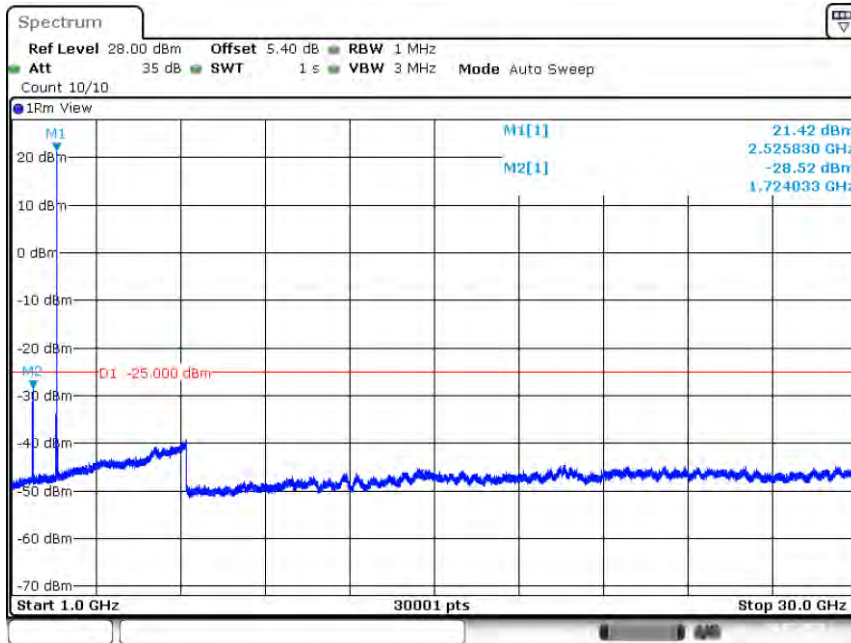
Date: 31 JUL 2020 19:12:51



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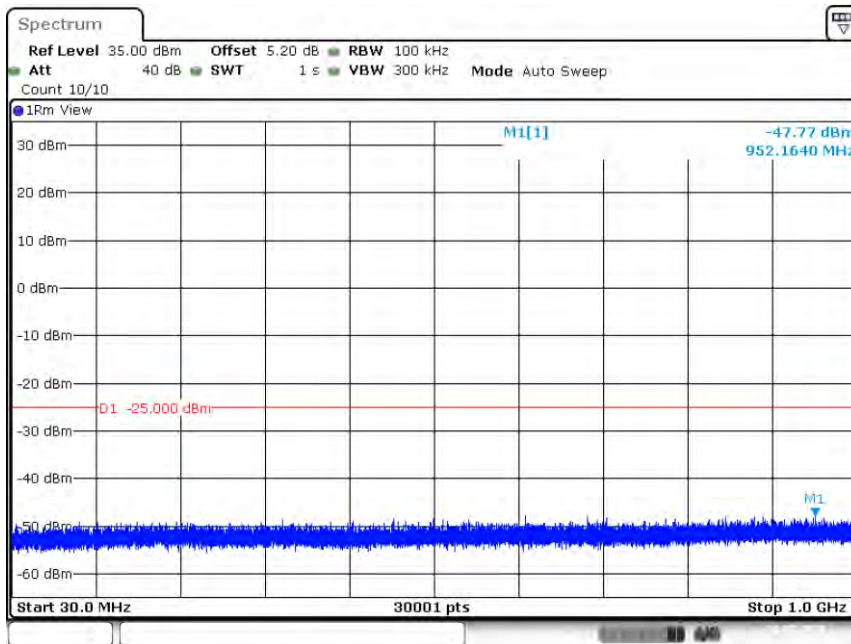


**Band7-20MHz-16QAM-21100-1RB#0-Range2:1000~30000MHz**



Date: 31 JUL 2020 19:13:07

**Band7-20MHz-16QAM-21350-1RB#0-Range1:30~1000MHz**



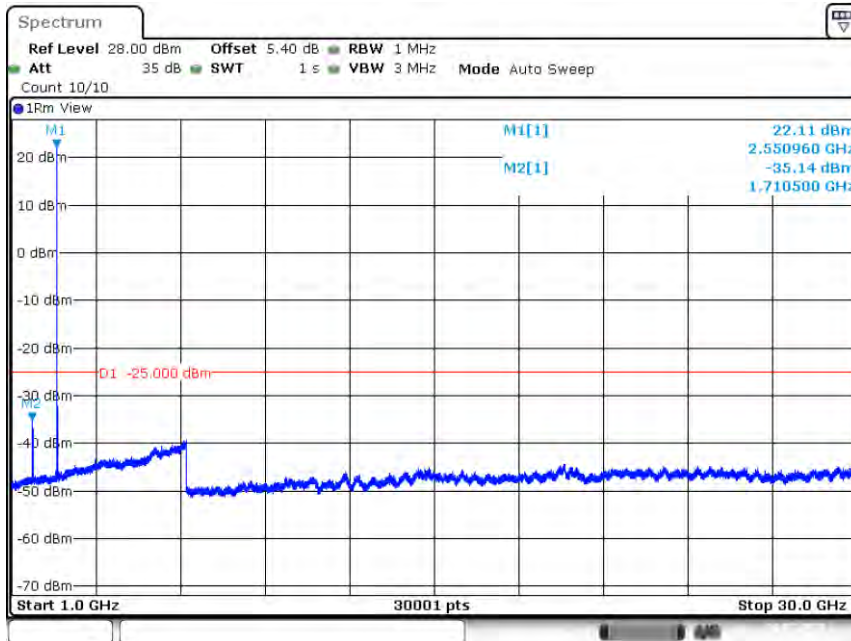
Date: 31 JUL 2020 19:14:03



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**Band7-20MHz-16QAM-21350-1RB#0-Range2:1000~30000MHz**



Date: 31 JUL 2020 19:14:19



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Mode =LTE/TM1 20MHz

#### 7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.8674	-72.93	-25.00	47.93	Vertical
110.7080	-64.97	-25.00	39.97	Vertical
387.2204	-68.68	-25.00	43.68	Vertical
5002.2801	-57.78	-25.00	32.78	Vertical
7503.7802	-57.53	-25.00	32.53	Vertical
17998.8000	-42.13	-25.00	17.13	Vertical
45.1328	-65.43	-25.00	40.43	Horizontal
229.8785	-68.45	-25.00	43.45	Horizontal
573.5182	-64.92	-25.00	39.92	Horizontal
5002.2801	-59.15	-25.00	34.15	Horizontal
8021.6009	-57.96	-25.00	32.96	Horizontal
16403.9362	-45.77	-25.00	20.77	Horizontal

#### 7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.3824	-73.11	-25.00	48.11	Vertical
107.2644	-65.38	-25.00	40.38	Vertical
389.0150	-68.58	-25.00	43.58	Vertical
5052.0821	-57.09	-25.00	32.09	Vertical
7352.5741	-57.80	-25.00	32.80	Vertical
17990.3996	-42.21	-25.00	17.21	Vertical
45.7148	-64.34	-25.00	39.34	Horizontal
226.4833	-69.13	-25.00	44.13	Horizontal
621.7296	-64.31	-25.00	39.31	Horizontal
5052.0821	-58.40	-25.00	33.40	Horizontal
9324.8530	-54.49	-25.00	29.49	Horizontal
16403.3361	-45.37	-25.00	20.37	Horizontal



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**7.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.7704	-72.35	-25.00	47.35	Vertical
106.9733	-66.11	-25.00	41.11	Vertical
381.6911	-68.37	-25.00	43.37	Vertical
5102.4841	-62.28	-25.00	37.28	Vertical
7653.1861	-57.10	-25.00	32.10	Vertical
17995.7998	-41.90	-25.00	16.90	Vertical
42.5136	-64.62	-25.00	39.62	Horizontal
104.5967	-76.32	-25.00	51.32	Horizontal
249.9100	-69.26	-25.00	44.26	Horizontal
5101.8841	-63.29	-25.00	38.29	Horizontal
7477.3791	-58.14	-25.00	33.14	Horizontal
16393.1357	-45.62	-25.00	20.62	Horizontal

**Remark:**

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	3.40	0.001355	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	1.50	0.000598	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	4.20	0.001673	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-1.30	-0.000513	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-3.40	-0.001341	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-1.40	-0.000552	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	2.50	0.000977	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	1.30	0.000508	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	4.40	0.001719	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VL	NT	1.60	0.000637	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VN	NT	1.20	0.000478	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VH	NT	4.10	0.001633	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VL	NT	-1.00	-0.000394	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VN	NT	-2.50	-0.000986	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VH	NT	-0.70	-0.000276	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VL	NT	-0.40	-0.000156	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VN	NT	-1.10	-0.000430	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VH	NT	3.70	0.001445	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	3.20	0.001275	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	1.10	0.000438	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	2.90	0.001155	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	-0.70	-0.000276	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	-2.50	-0.000986	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	-1.00	-0.000394	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	1.70	0.000664	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	2.50	0.000977	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	2.80	0.001094	±2.5	PASS



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## 8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	NV	-30	1.40	0.000558	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	2.40	0.000956	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-10	2.70	0.001076	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	4.80	0.001912	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	3.00	0.001195	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	1.40	0.000558	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	3.70	0.001474	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	3.90	0.001554	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	1.20	0.000478	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-2.30	-0.000907	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-0.70	-0.000276	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-1.30	-0.000513	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-2.20	-0.000868	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-3.40	-0.001341	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-0.60	-0.000237	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-3.30	-0.001302	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-1.00	-0.000394	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	0.30	0.000118	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	3.30	0.001289	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	-0.20	-0.000078	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-10	2.20	0.000859	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	2.90	0.001133	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	2.10	0.000820	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	1.40	0.000547	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	3.00	0.001172	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	0.70	0.000273	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	2.50	0.000977	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	-30	4.40	0.001753	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	-20	4.50	0.001793	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	-10	2.40	0.000956	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	0	0.80	0.000319	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	10	1.90	0.000757	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	20	0.00	0.000000	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	30	4.90	0.001952	±2.5	PASS



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Band7	20MHz	64QAM	20850	100RB#0	NV	40	4.10	0.001633	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	50	0.70	0.000279	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-30	-4.00	-0.001578	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-20	-1.90	-0.000750	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-10	-1.90	-0.000750	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	0	-2.50	-0.000986	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	10	-1.50	-0.000592	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	20	-1.40	-0.000552	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	30	-2.30	-0.000907	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	40	-1.30	-0.000513	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	50	-2.40	-0.000947	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	-30	2.60	0.001016	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	-20	-1.70	-0.000664	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	-10	2.50	0.000977	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	0	0.90	0.000352	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	10	1.50	0.000586	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	20	-0.70	-0.000273	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	30	2.20	0.000859	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	40	2.40	0.000938	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	50	-1.70	-0.000664	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	1.40	0.000558	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	0.30	0.000120	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-10	1.10	0.000438	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	0.60	0.000239	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	4.00	0.001594	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	3.70	0.001474	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	3.10	0.001235	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	1.60	0.000637	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	1.70	0.000677	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	0.50	0.000197	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	-2.20	-0.000868	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-10	-3.30	-0.001302	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	-2.30	-0.000907	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	-2.00	-0.000789	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	-3.50	-0.001381	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	-4.40	-0.001736	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	-0.30	-0.000118	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	-1.20	-0.000473	±2.5	PASS



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Band7	20MHz	16QAM	21350	100RB#0	NV	-30	-0.20	-0.000078	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-20	4.90	0.001914	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-10	2.30	0.000898	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	1.00	0.000391	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	1.80	0.000703	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	1.80	0.000703	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	2.50	0.000977	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	40	1.40	0.000547	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	1.30	0.000508	±2.5	PASS



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