



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	23.29	25.29	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.46	25.46	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.09	25.09	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	22.21	24.21	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	22.45	24.45	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	22.27	24.27	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.25	24.25	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.09	25.09	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.07	25.07	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.30	25.3	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	22.29	24.29	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	22.13	24.13	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	22.19	24.19	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.14	24.14	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.72	24.72	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.86	24.86	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.10	25.1	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	21.97	23.97	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	21.78	23.78	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	21.81	23.81	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.89	23.89	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.76	23.76	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.43	24.43	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.91	23.91	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	21.23	23.23	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	21.05	23.05	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	21.16	23.16	33.00	PASS



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Band7	5MHz	16QAM	20775	25RB#0	21.24	23.24	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.56	23.56	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.90	23.9	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.48	23.48	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	21.10	23.1	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	20.94	22.94	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#6	21.13	23.13	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.29	23.29	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.95	23.95	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.81	23.81	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.27	23.27	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#0	20.74	22.74	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	20.85	22.85	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.69	22.69	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.82	22.82	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.86	25.86	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.79	24.79	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.03	25.03	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	22.36	24.36	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	22.35	24.35	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	22.20	24.2	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.34	24.34	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.05	25.05	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.51	24.51	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.54	25.54	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	22.16	24.16	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	22.37	24.37	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	22.28	24.28	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.19	24.19	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.28	25.28	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.82	24.82	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.19	24.19	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	22.36	24.36	33.00	PASS



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Band7	10MHz	QPSK	21400	25RB#25	21.66	23.66	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	22.04	24.04	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.03	24.03	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.77	23.77	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.83	23.83	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.75	23.75	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	21.30	23.3	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	21.48	23.48	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	21.27	23.27	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.11	23.11	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.90	23.9	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.16	24.16	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.05	24.05	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	21.17	23.17	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	21.31	23.31	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	21.41	23.41	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.07	23.07	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.46	23.46	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.88	23.88	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.37	23.37	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	21.02	23.02	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	21.06	23.06	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	20.94	22.94	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.98	22.98	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.03	25.03	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.87	25.87	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.75	24.75	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	22.36	24.36	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	22.45	24.45	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	22.13	24.13	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.26	24.26	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.88	24.88	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.59	24.59	33.00	PASS



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Band7	15MHz	QPSK	21100	1RB#38	23.38	25.38	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	22.21	24.21	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	22.27	24.27	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	22.07	24.07	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.11	24.11	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	21.84	23.84	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.90	24.9	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.17	25.17	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	22.36	24.36	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	22.06	24.06	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	21.68	23.68	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.07	24.07	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.83	23.83	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.73	23.73	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.17	24.17	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	21.11	23.11	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#0	21.26	23.26	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	21.22	23.22	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.13	23.13	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.94	23.94	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	21.62	23.62	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.96	23.96	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	21.17	23.17	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	21.13	23.13	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	21.10	23.1	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.12	23.12	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.81	23.81	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.96	23.96	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.85	23.85	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	21.09	23.09	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	21.08	23.08	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	20.88	22.88	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.00	23	33.00	PASS



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Band7	20MHz	QPSK	20850	1RB#99	22.61	24.61	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.95	25.95	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.93	24.93	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	22.55	24.55	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	22.46	24.46	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	22.03	24.03	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.18	24.18	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.81	24.81	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.72	24.72	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.74	25.74	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	22.11	24.11	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	22.32	24.32	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	22.24	24.24	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.09	24.09	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.42	25.42	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.97	24.97	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.16	24.16	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	22.31	24.31	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	21.68	23.68	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	22.08	24.08	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.00	24	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.61	23.61	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.26	24.26	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.79	23.79	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	21.08	23.08	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	21.24	23.24	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	21.28	23.28	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.19	23.19	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.51	23.51	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.80	23.8	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.67	23.67	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	21.11	23.11	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#0	21.26	23.26	33.00	PASS



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Band7	20MHz	16QAM	21100	50RB#25	21.23	23.23	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.10	23.1	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.63	23.63	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.74	23.74	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.31	23.31	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	21.11	23.11	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	20.95	22.95	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	20.90	22.9	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.91	22.91	33.00	PASS

Remark:

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

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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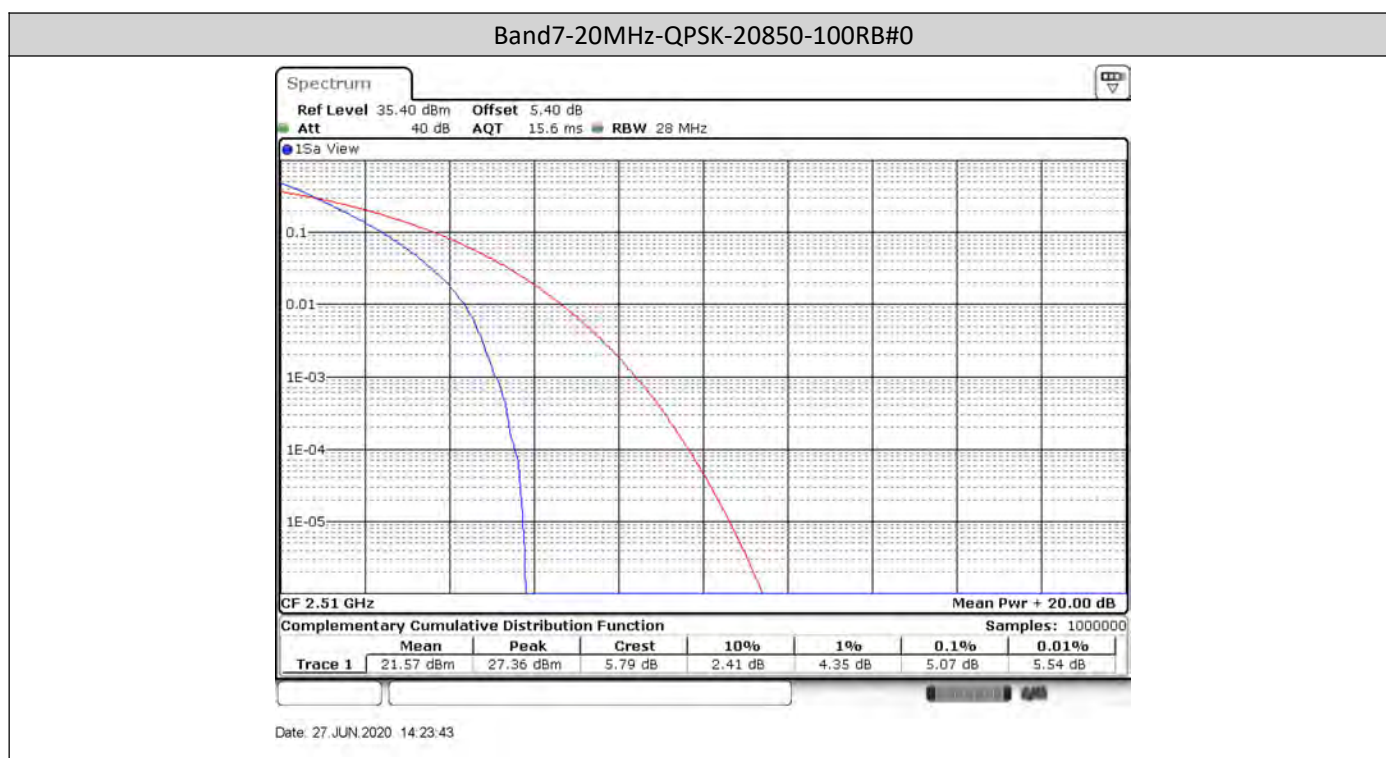


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	5.07	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.10	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.01	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.00	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.97	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.94	13	PASS

2.2. Test Plots



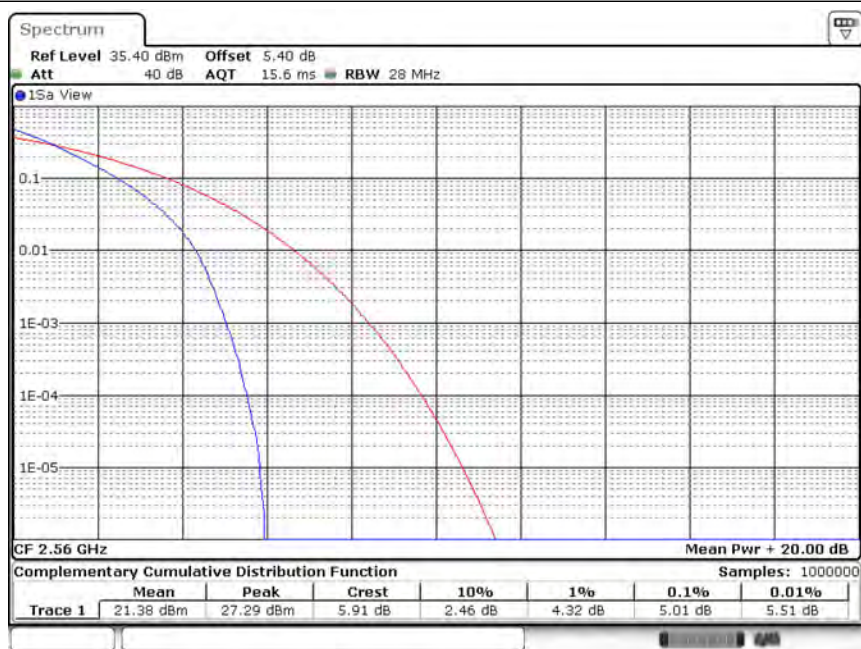


Band7-20MHz-QPSK-21100-100RB#0



Date: 27 JUN 2020 14:24:06

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



Date: 27 JUN 2020 14:24:29



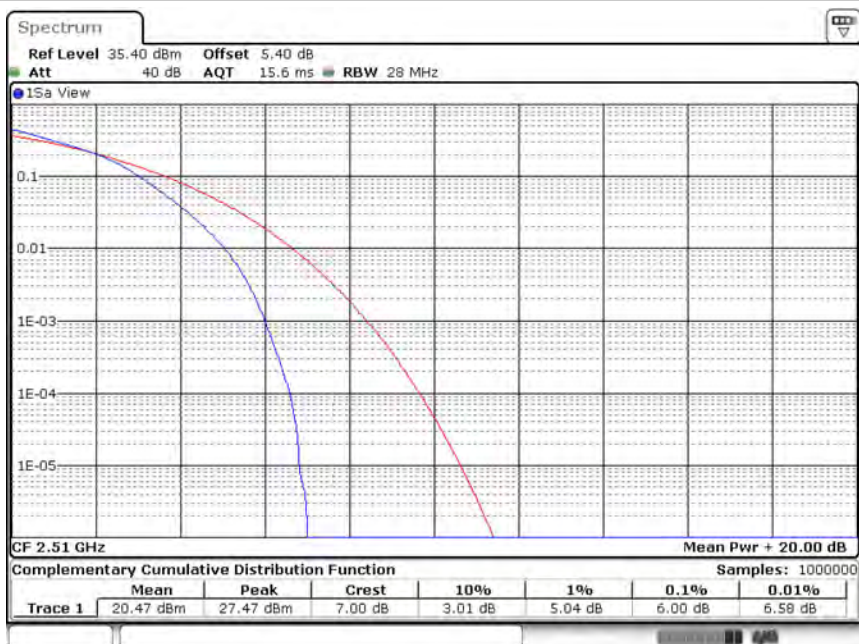
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Band7-20MHz-16QAM-20850-100RB#0



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



Date: 27 JUN 2020 14:24:17

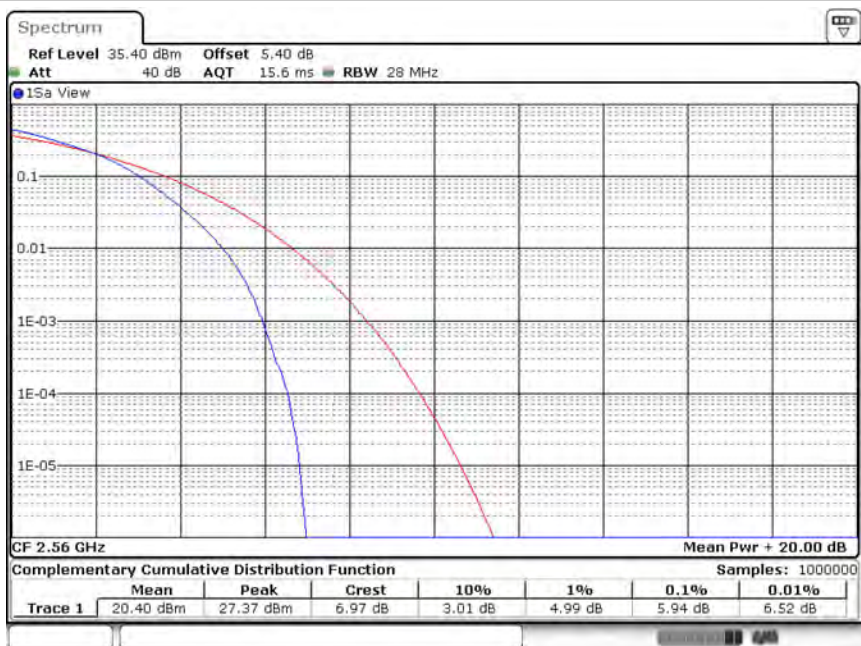


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Band7-20MHz-16QAM-21350-100RB#0



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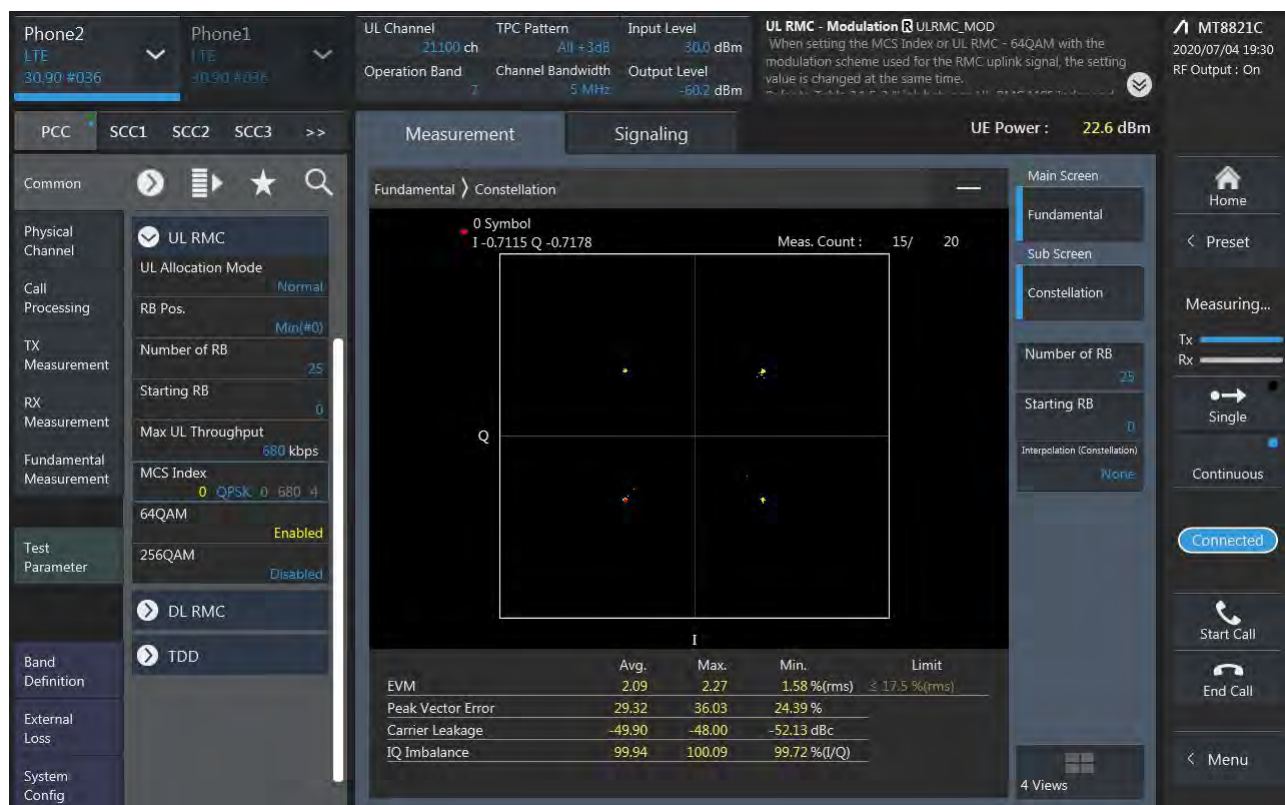


3. Modulation Characteristics

3.1. Test Band = LTE Band 7

3.1.1. Test Mode = LTE /TM1 20MHz

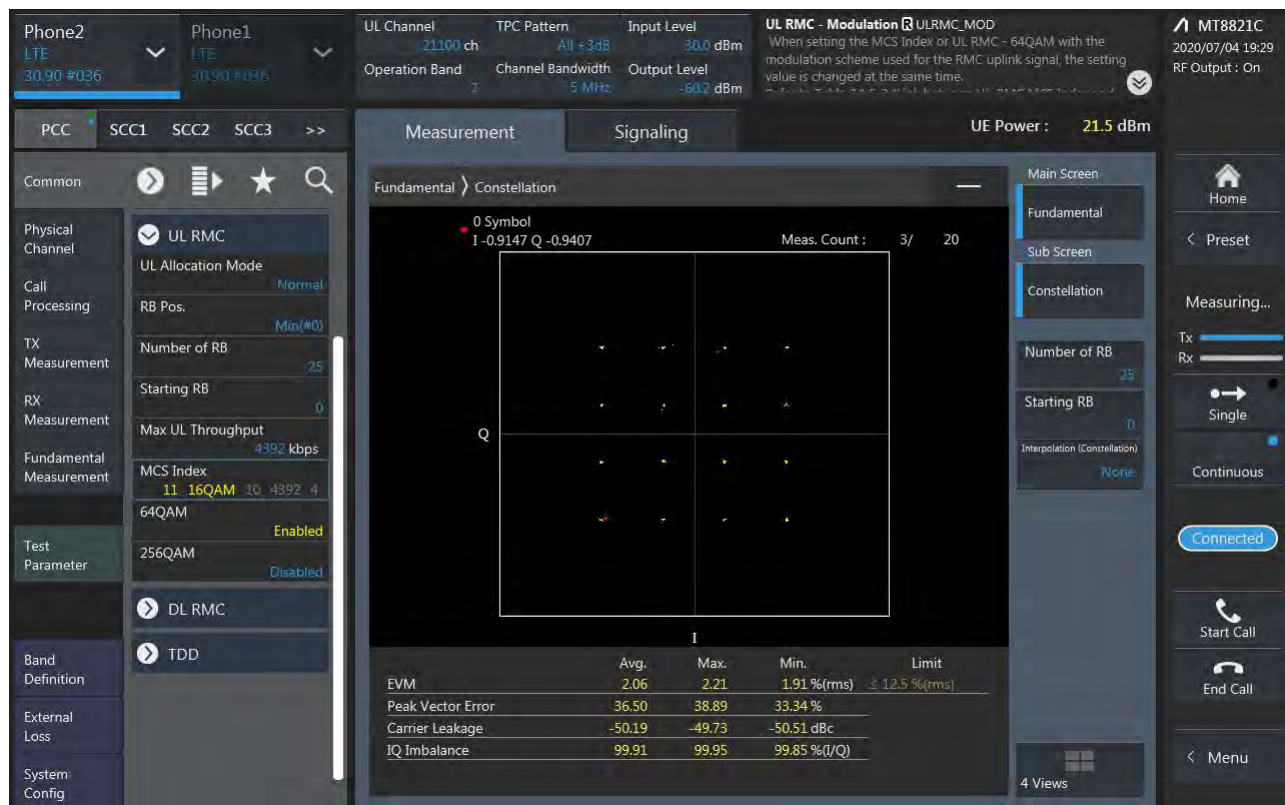
3.1.1.1. Test Channel = MCH





3.1.2. Test Mode = LTE /TM2 20MHz

3.1.2.1. Test Channel = MCH





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	4.466	4.930	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.476	4.930	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	4.930	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.486	4.960	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.476	4.940	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.496	4.940	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.931	9.680	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.911	9.700	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.911	9.680	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.931	9.720	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.911	9.680	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.911	9.760	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.457	14.730	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.427	14.670	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.427	14.760	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.427	14.820	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.427	14.700	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.427	14.730	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.862	19.280	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.822	19.400	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.822	19.360	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.862	19.240	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.862	19.320	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.822	19.360	PASS



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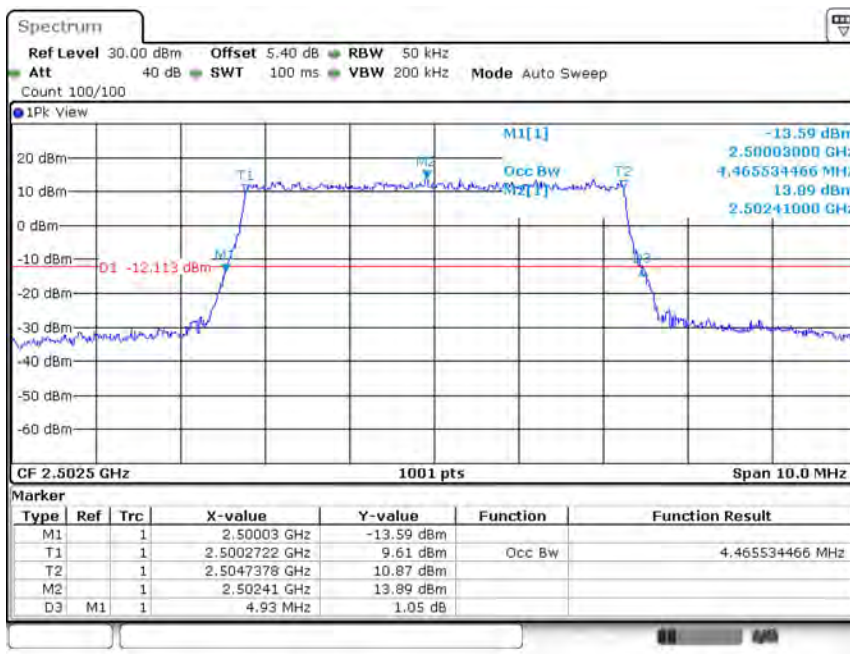
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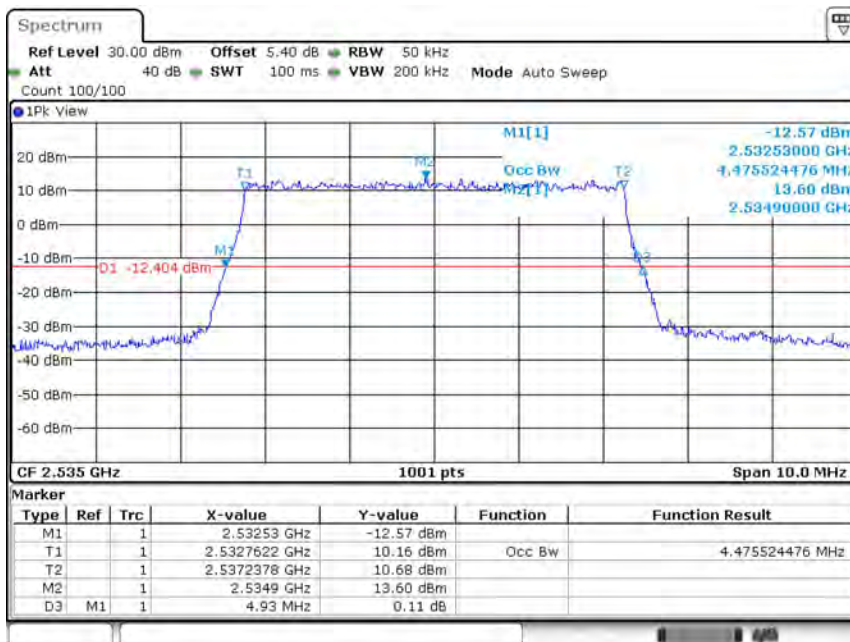
4.2. Test Plots

Band7-5MHz-QPSK-20775-25RB#0-4.466



Date: 27 JUN 2020 14:01:45

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



Date: 27 JUN 2020 14:02:24

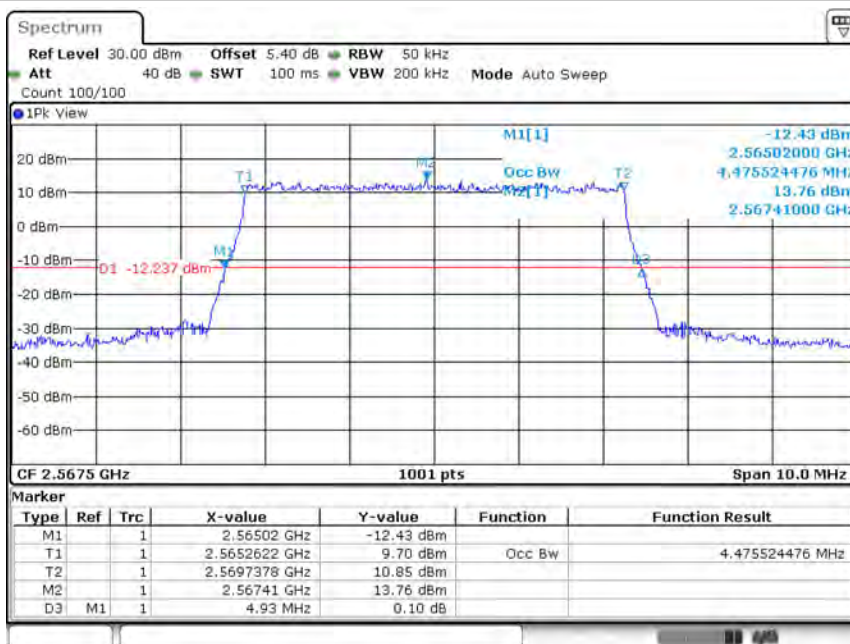


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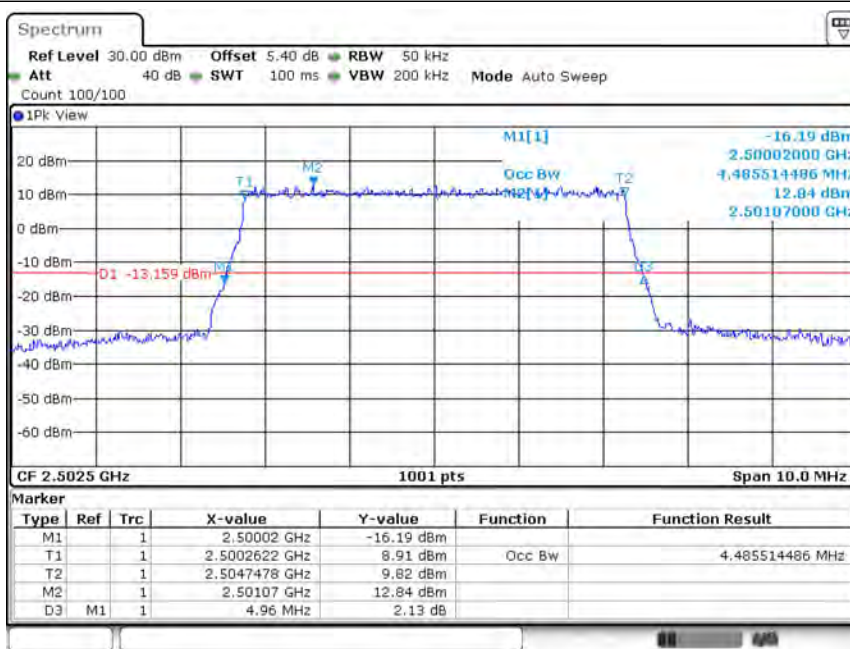


Band7-5MHz-QPSK-21425-25RB#0-4.476



Date: 27 JUN 2020 14:03:05

Band7-5MHz-16QAM-20775-25RB#0-4.486



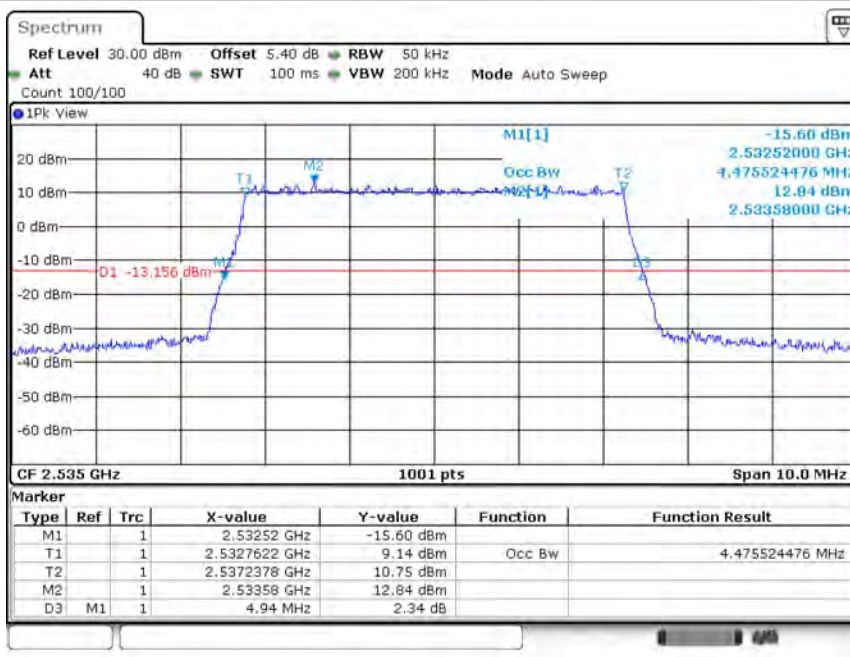
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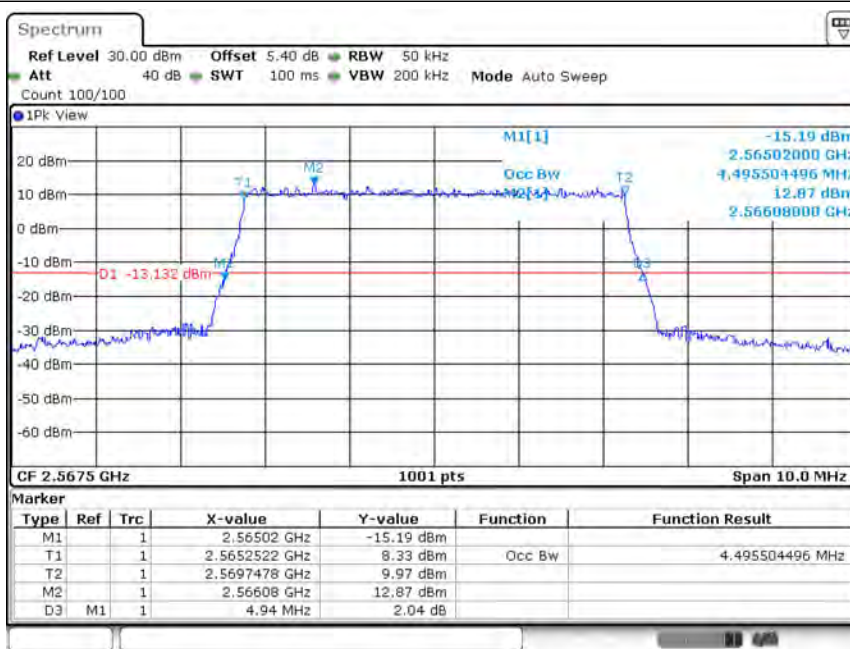
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Band7-5MHz-16QAM-21100-25RB#0-4.476



Date: 27 JUN 2020 14:02:44

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



Date: 27 JUN 2020 14:03:24

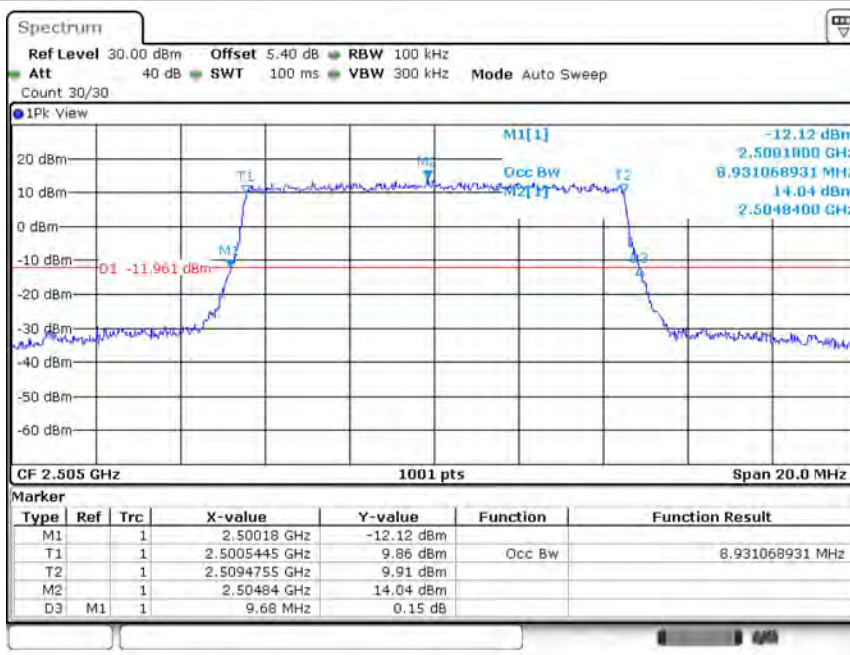


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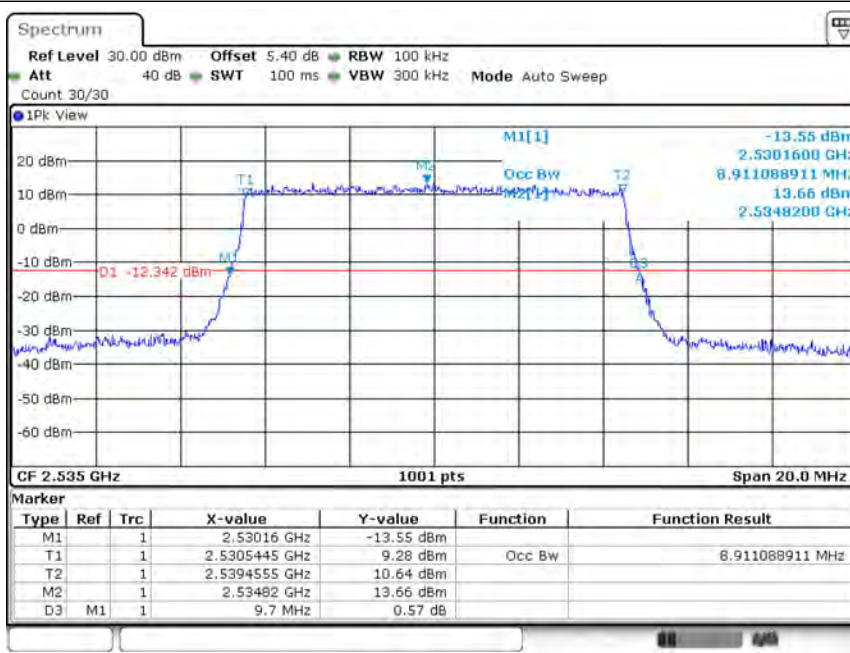


Band7-10MHz-QPSK-20800-50RB#0-8.931



Date: 27 JUN 2020 14:03:42

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

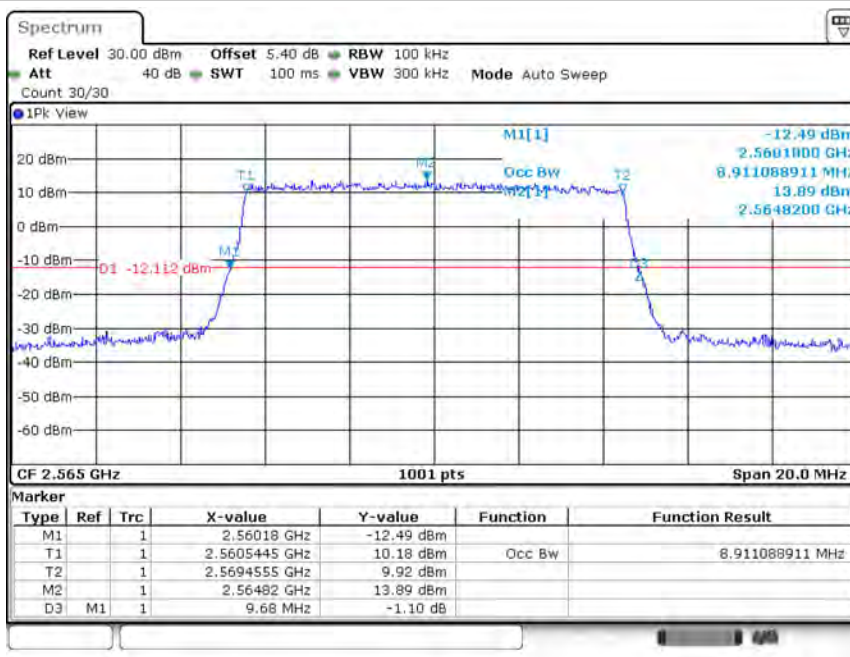


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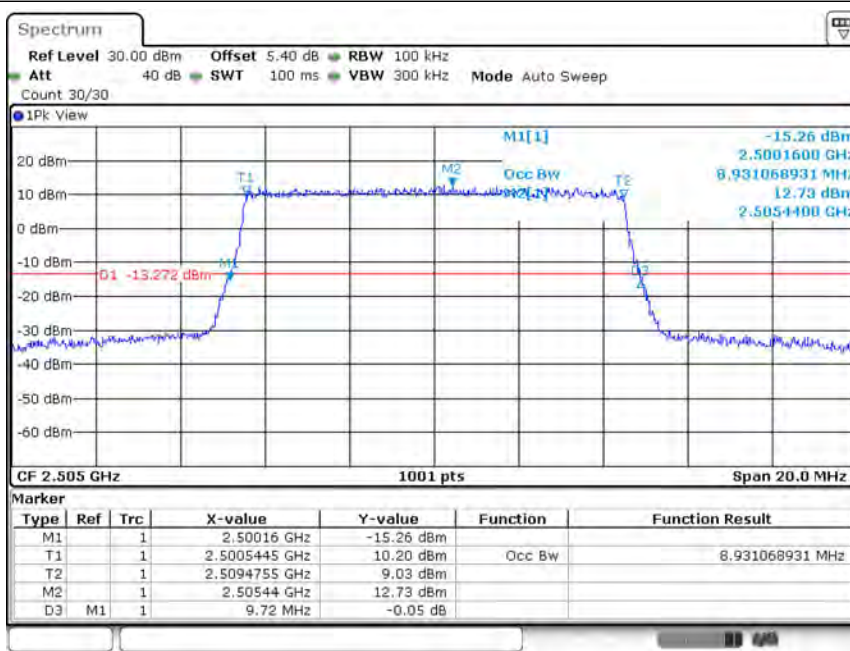


Band7-10MHz-QPSK-21400-50RB#0-8.911



Date: 27 JUN 2020 14:04:33

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



Date: 27 JUN 2020 14:03:55

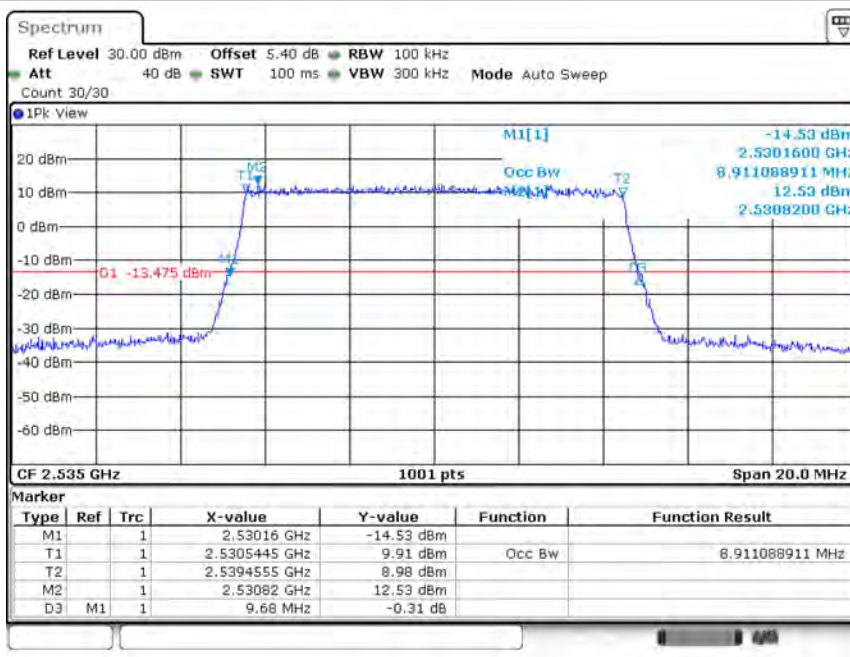


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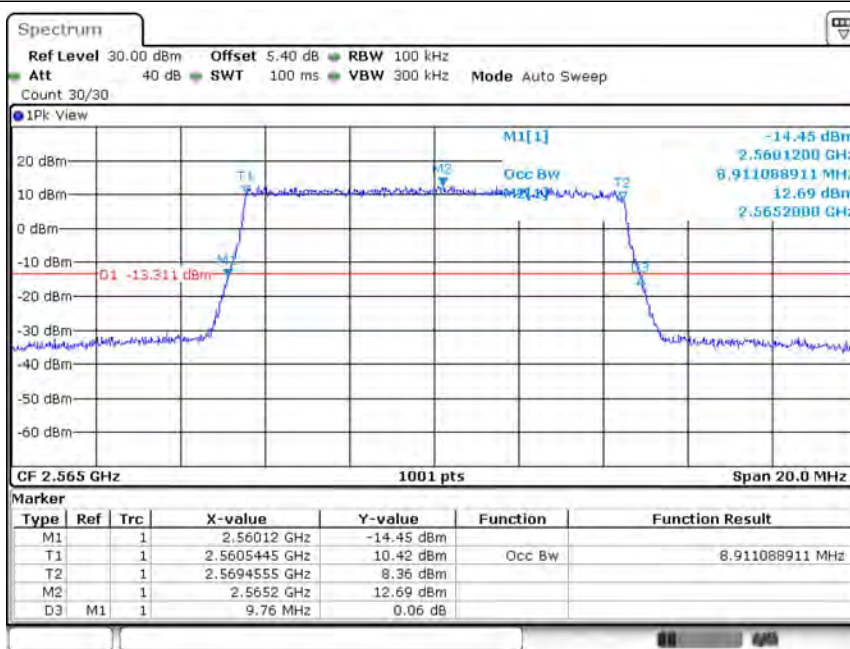


Band7-10MHz-16QAM-21100-50RB#0-8.911



Date: 27 JUN 2020 14:04:21

Band7-10MHz-16QAM-21400-50RB#0-8.911



Date: 27 JUN 2020 14:04:46

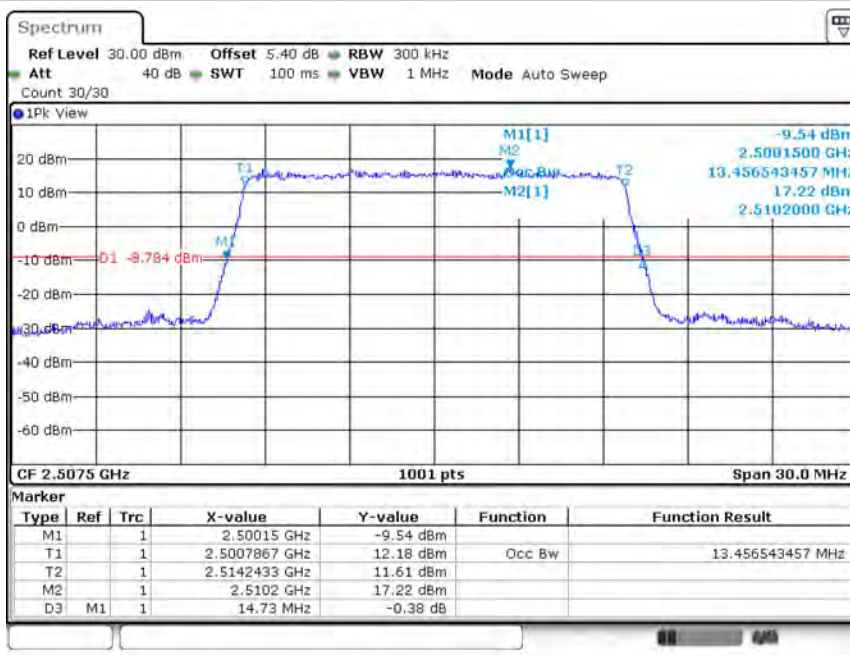


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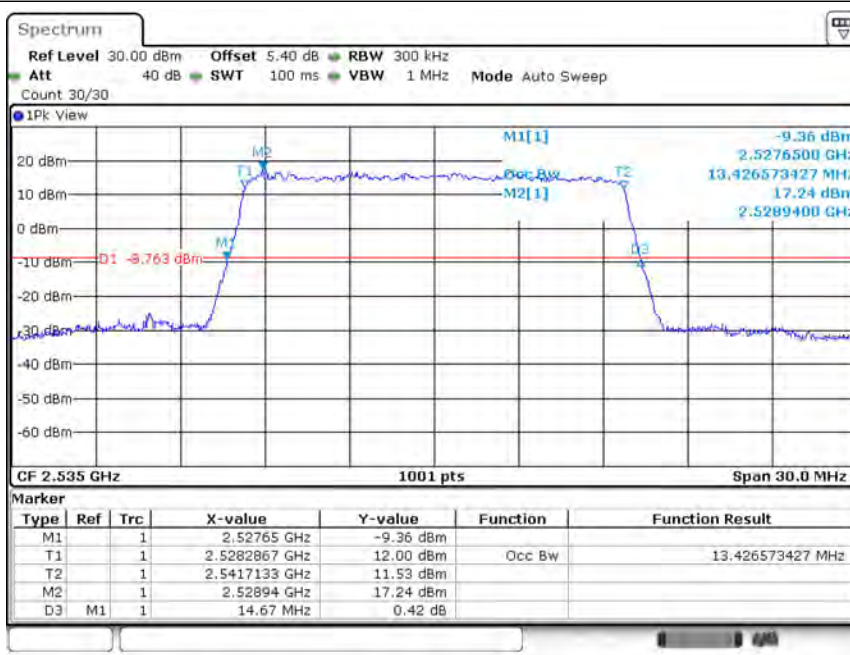
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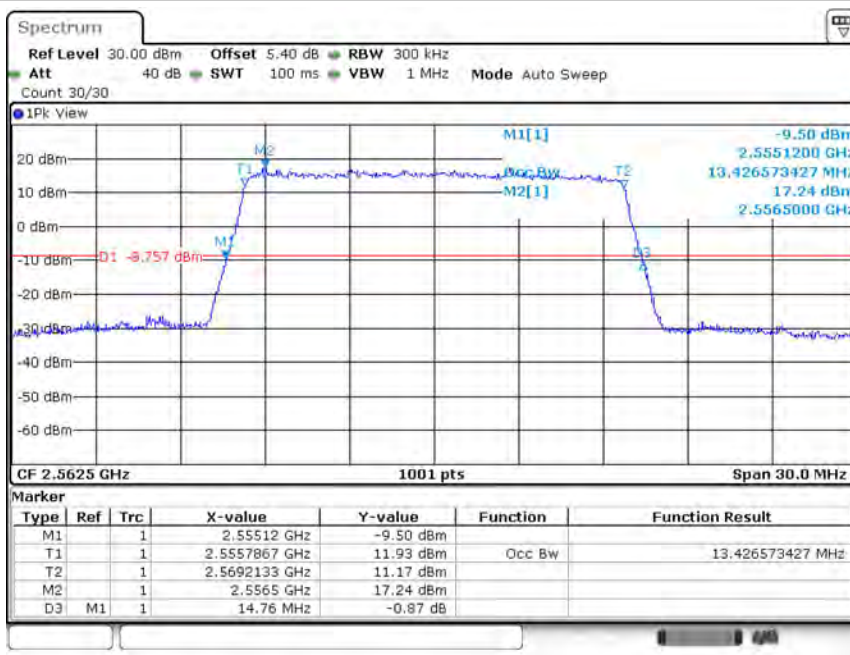
Band7-15MHz-QPSK-20825-75RB#0-13.457



Band7-15MHz-QPSK-21100-75RB#0-13.427

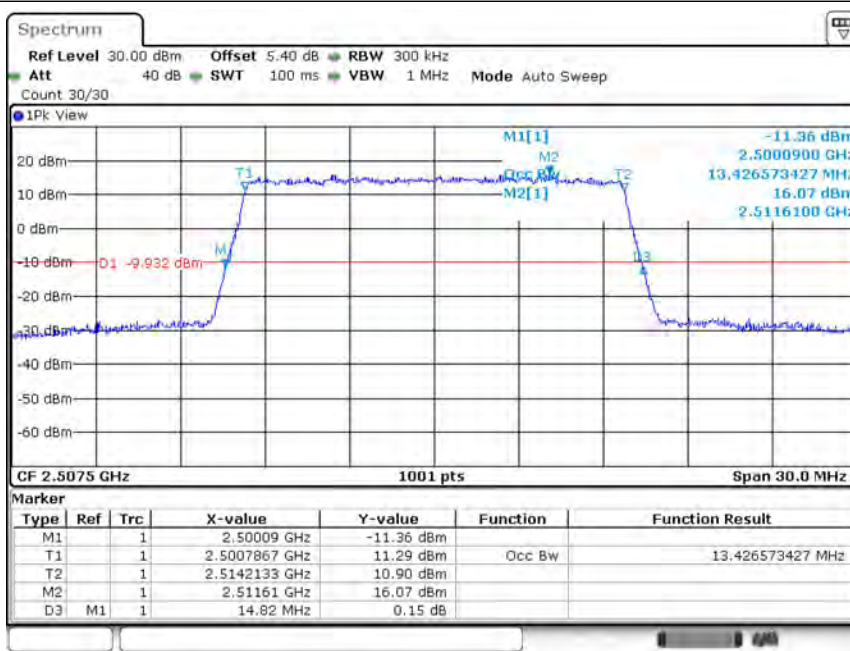


Band7-15MHz-QPSK-21375-75RB#0-13.427



Date: 27 JUN 2020 14:05:56

Band7-15MHz-16QAM-20825-75RB#0-13.427



Date: 27 JUN 2020 14:05:17

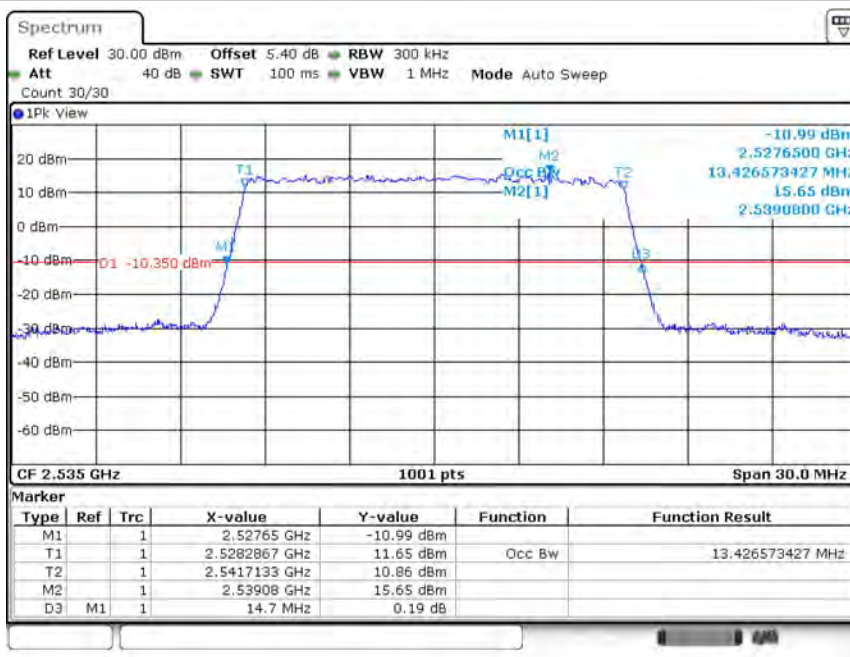


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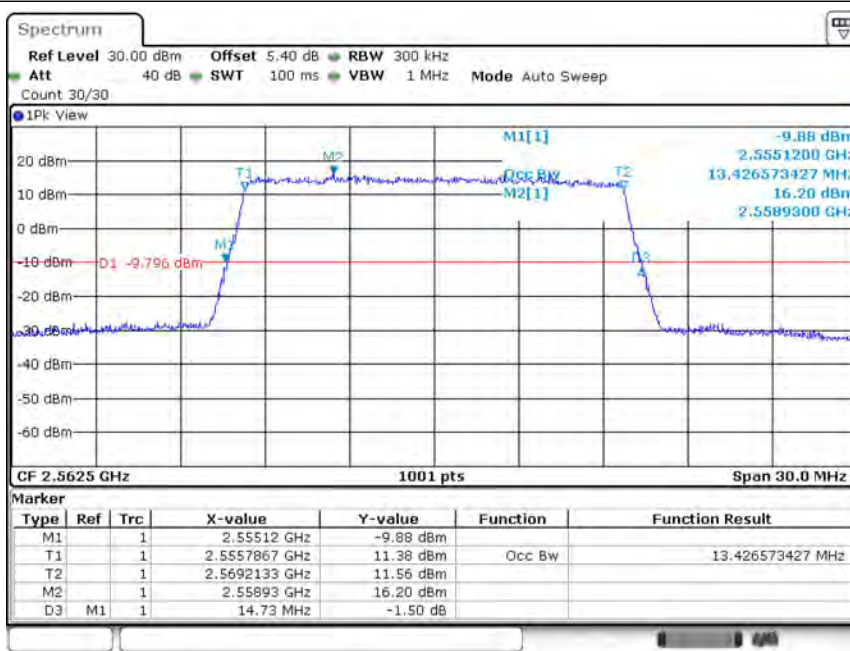


Band7-15MHz-16QAM-21100-75RB#0-13.427



Date: 27 JUN 2020 14:05:43

Band7-15MHz-16QAM-21375-75RB#0-13.427



Date: 27 JUN 2020 14:06:09

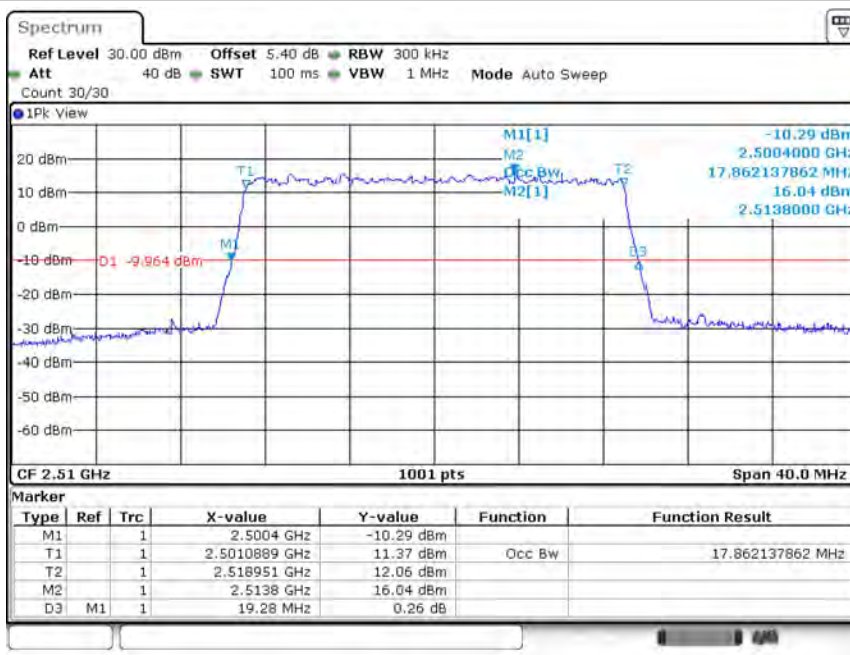


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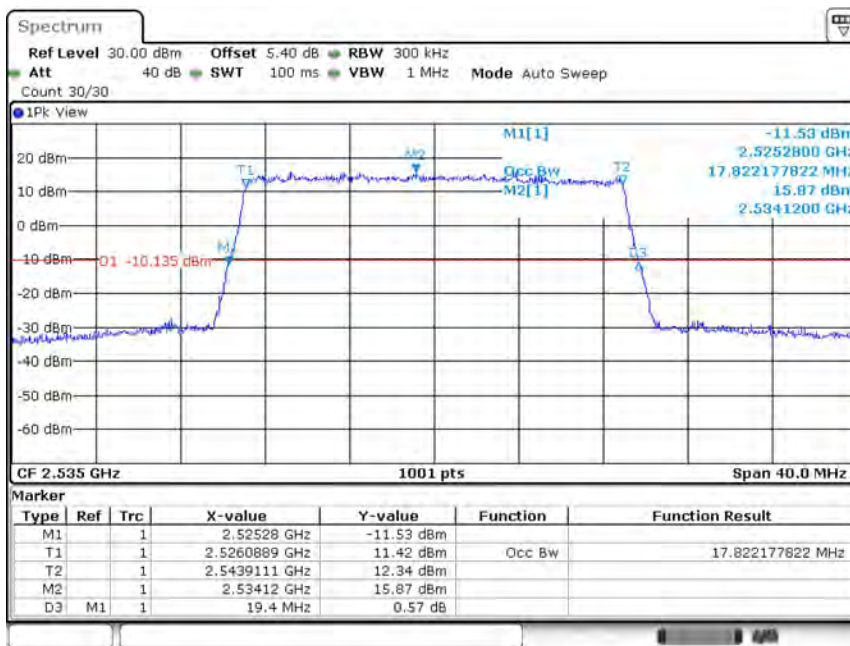


Band7-20MHz-QPSK-20850-100RB#0-17.862



Date: 27 JUN 2020 14:06:27

Band7-20MHz-QPSK-21100-100RB#0-17.822



Date: 27 JUN 2020 14:06:54

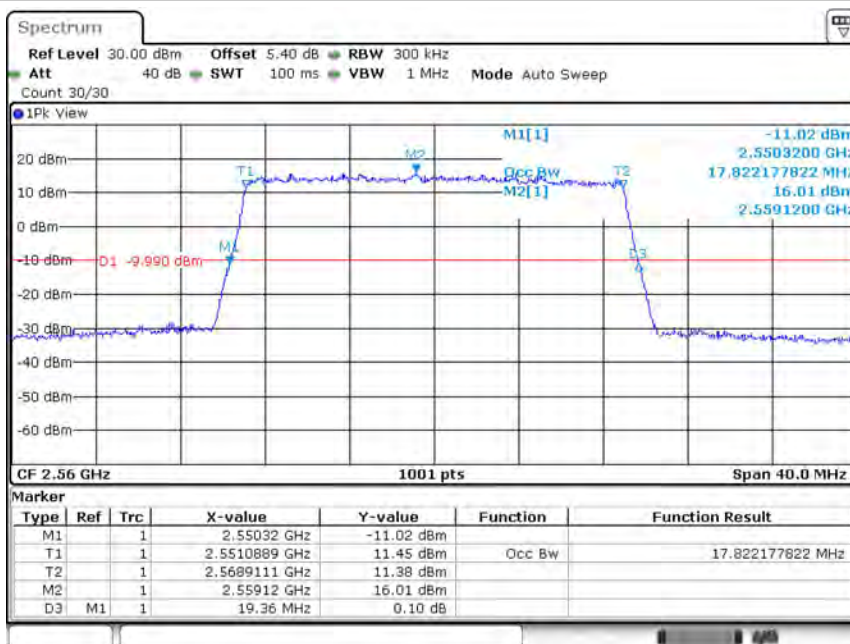


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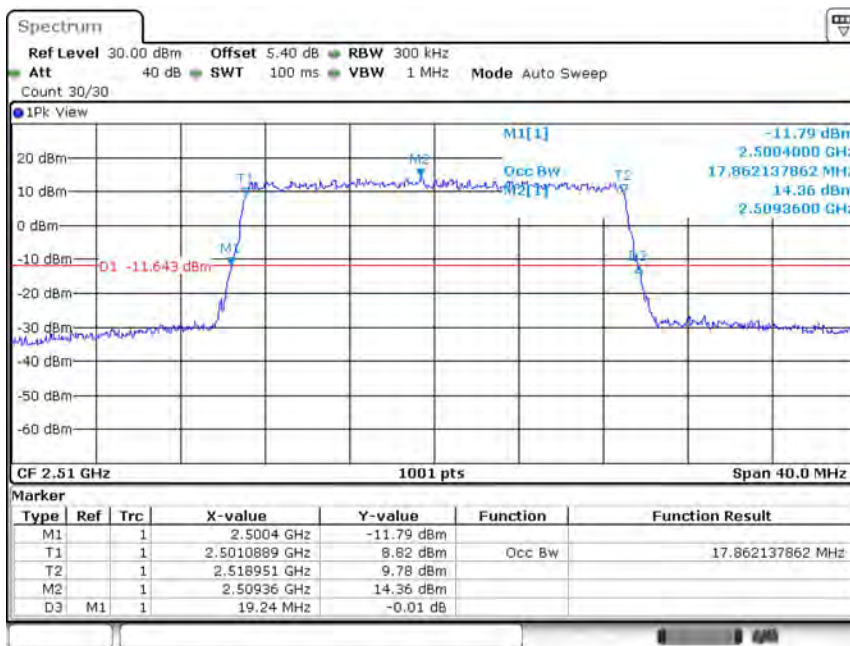
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Band7-20MHz-QPSK-21350-100RB#0-17.822



Date: 27 JUN 2020 14:07:20

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



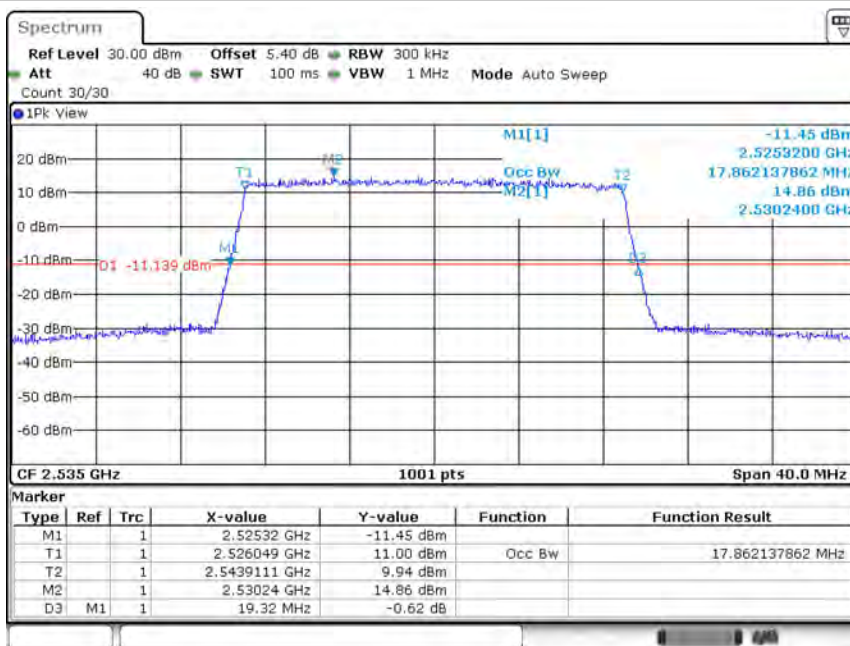
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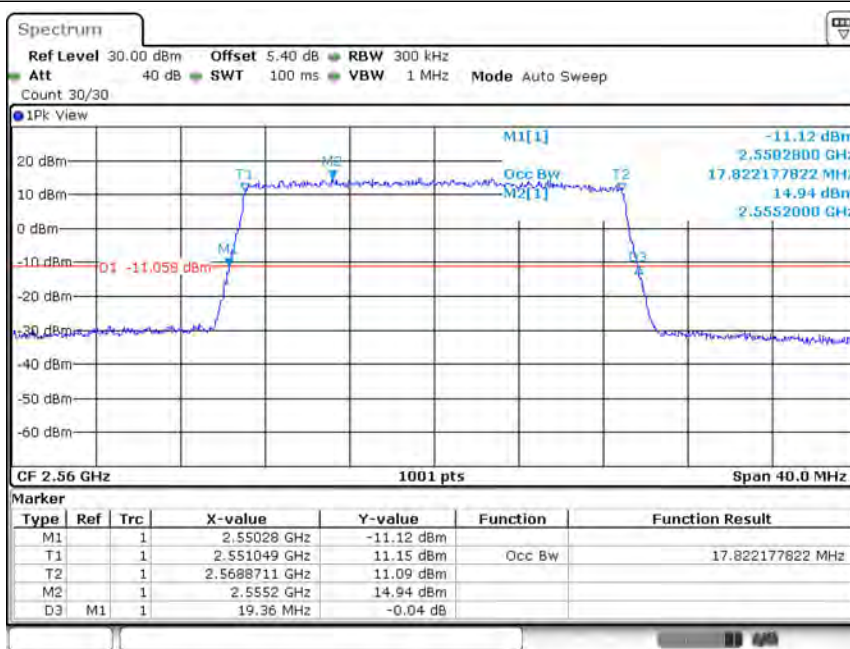
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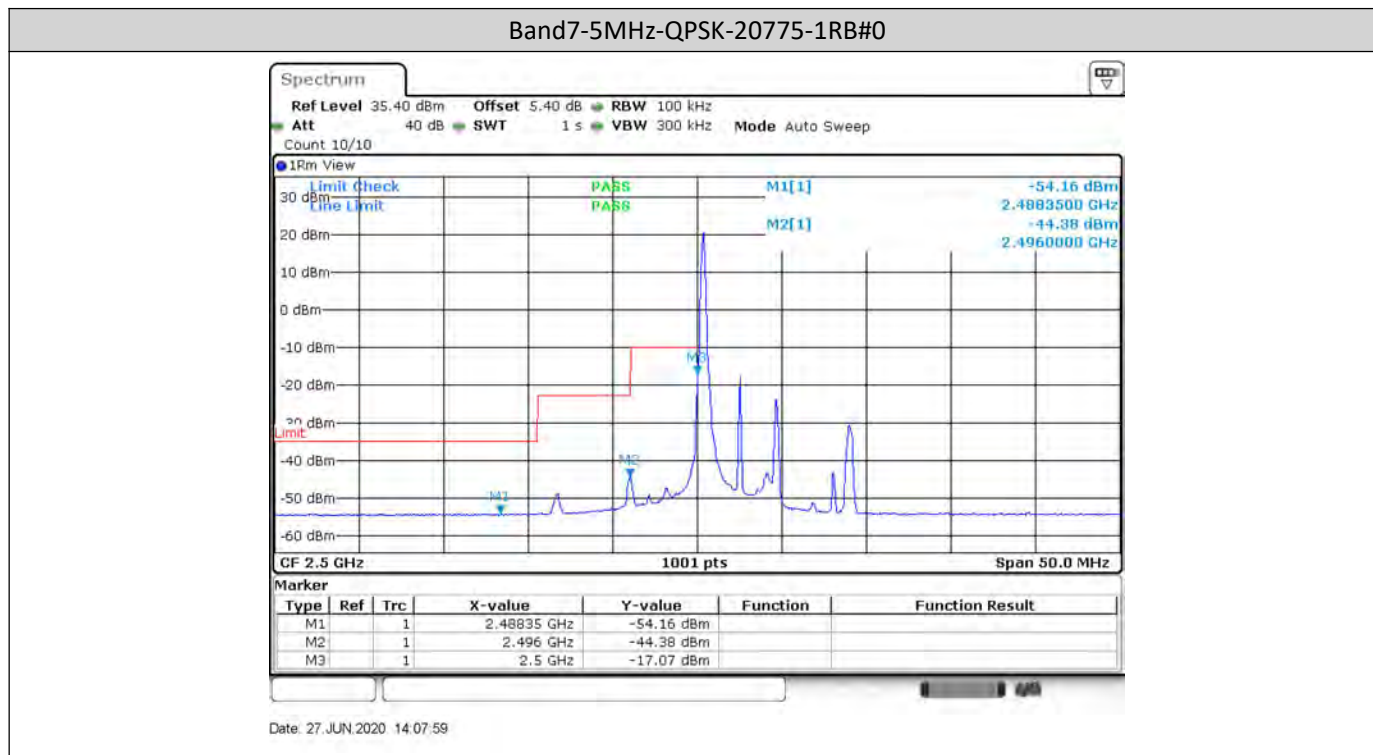
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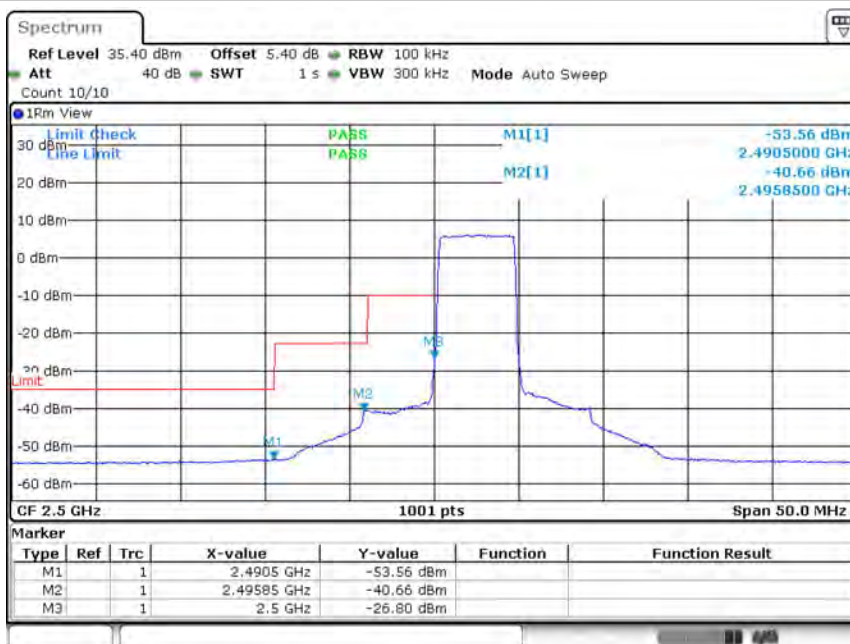
5. Band Edge Compliance

5.1. Test Plots



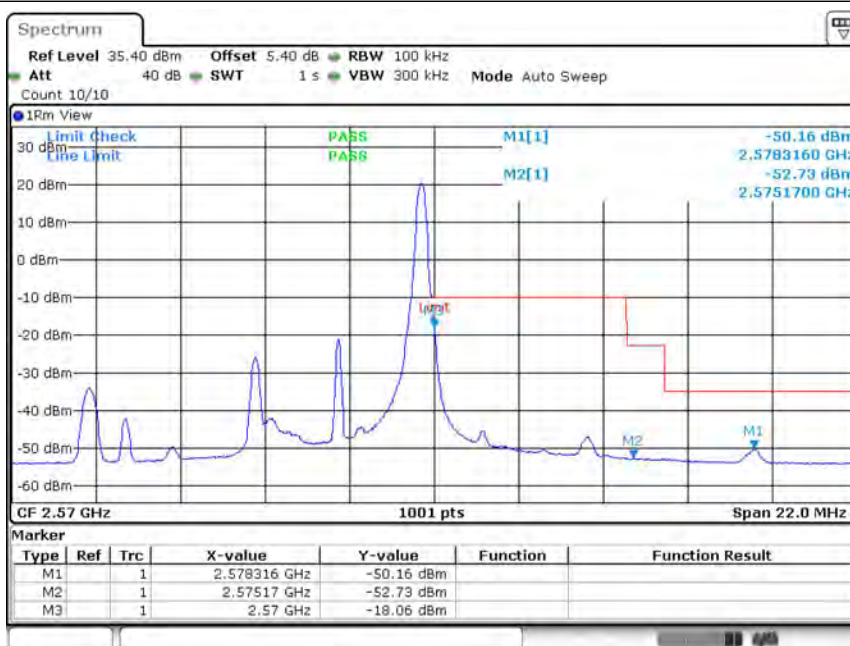


Band7-5MHz-QPSK-20775-25RB#0



Date: 27 JUN 2020 14:09:33

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

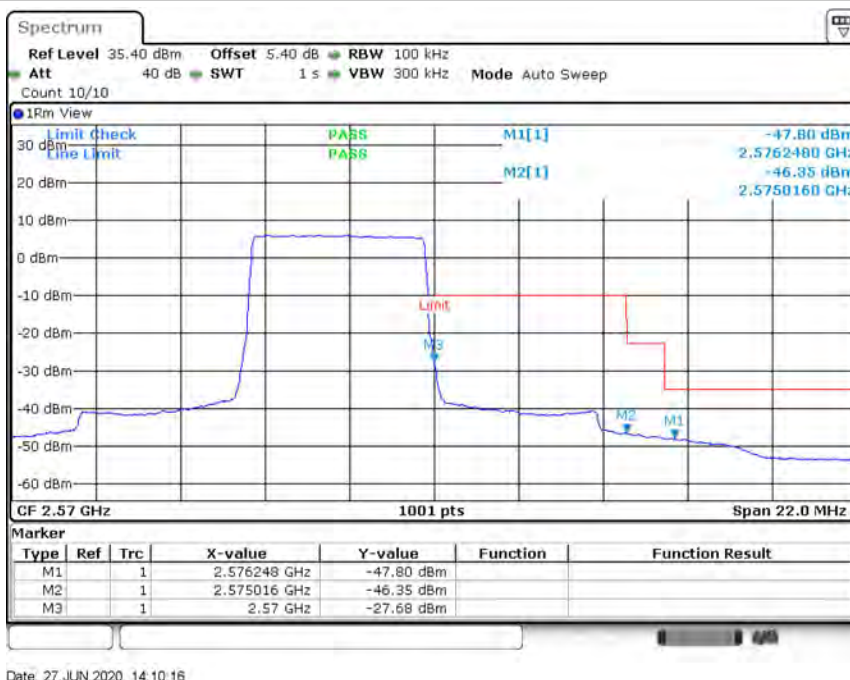


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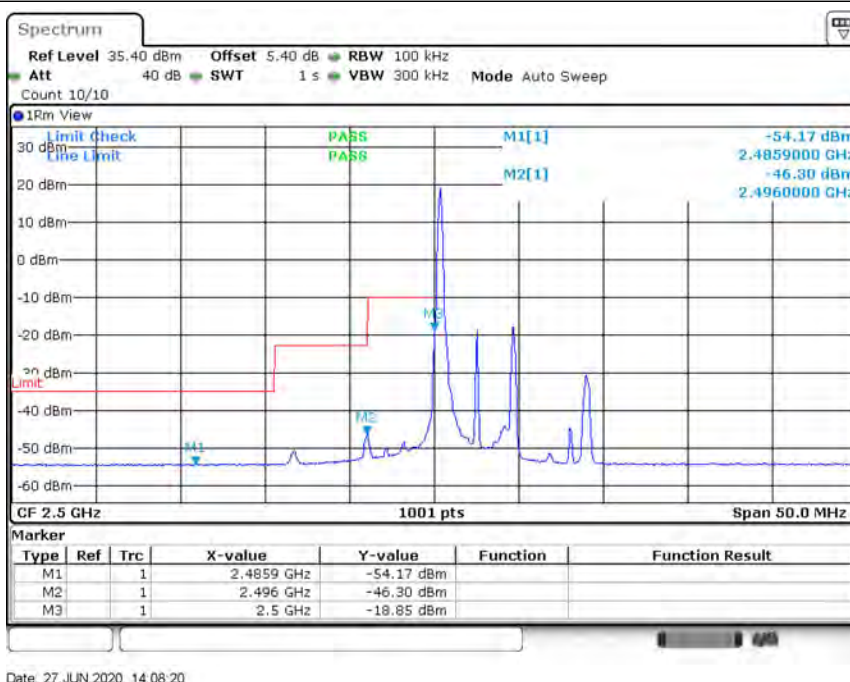




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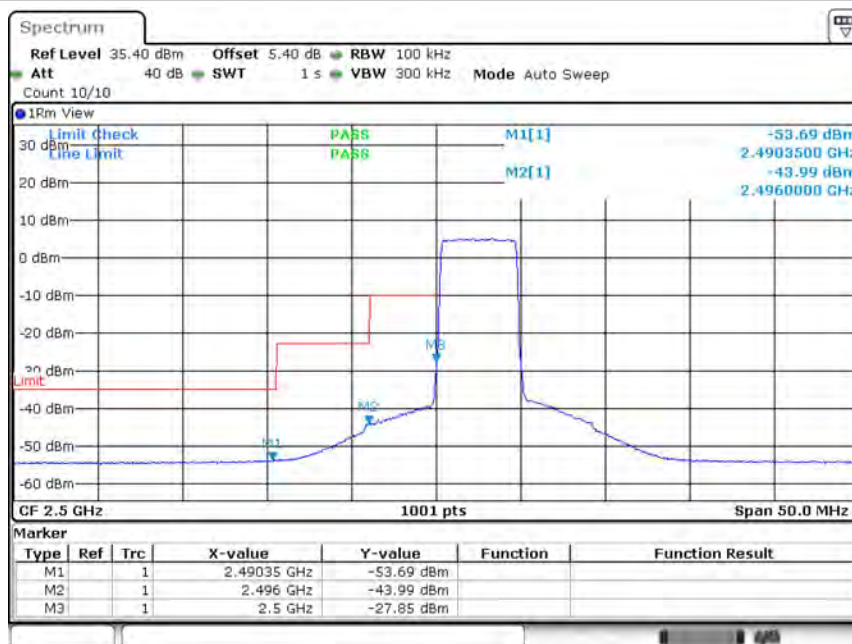


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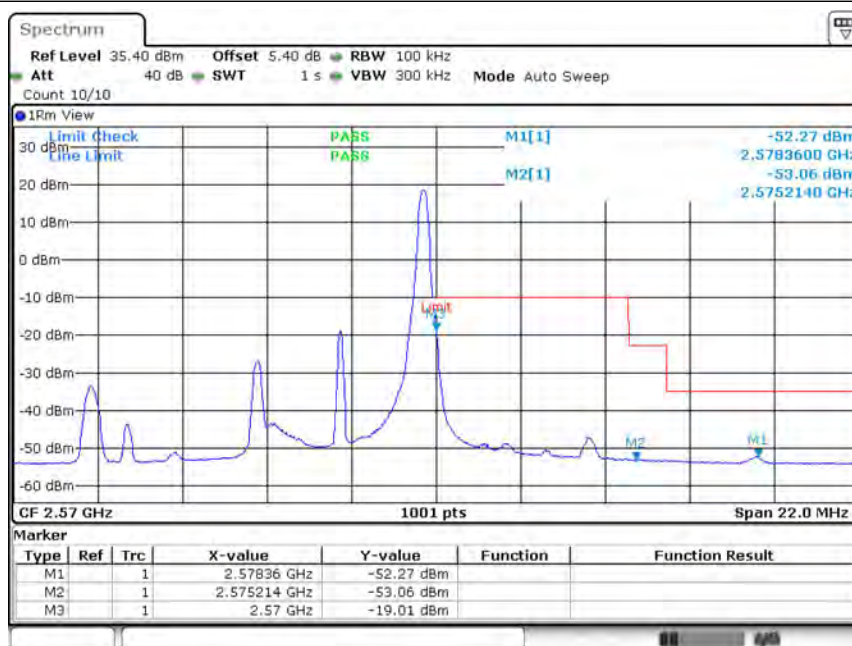


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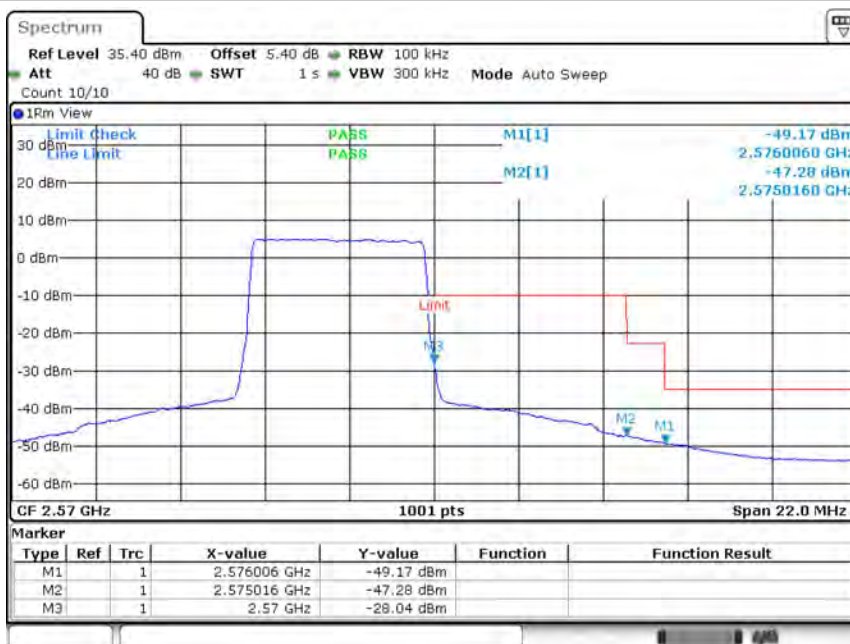


Date: 27 JUN 2020 14:09:07



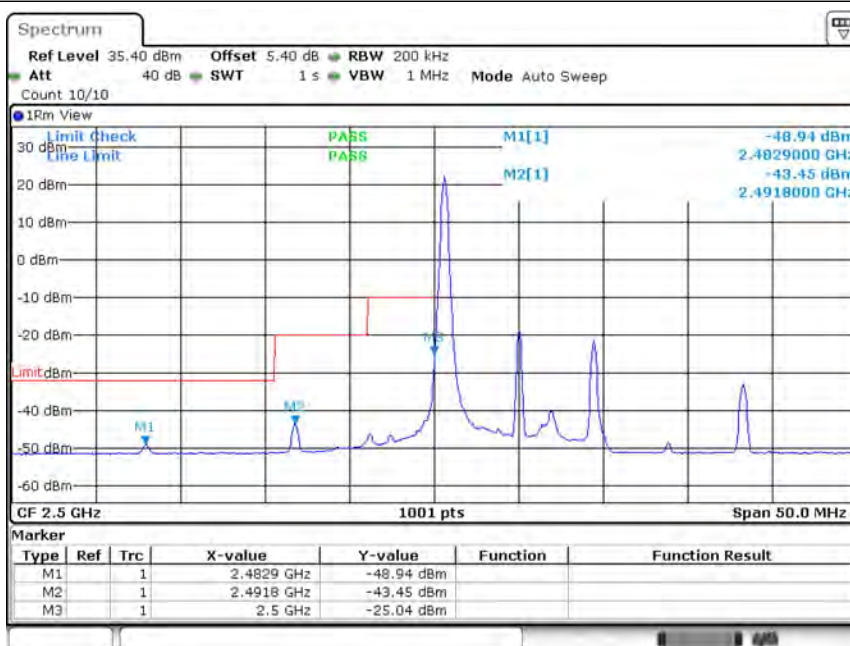


Band7-5MHz-16QAM-21425-25RB#0



Date: 27 JUN 2020 14:10:37

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



Date: 27 JUN 2020 14:11:03

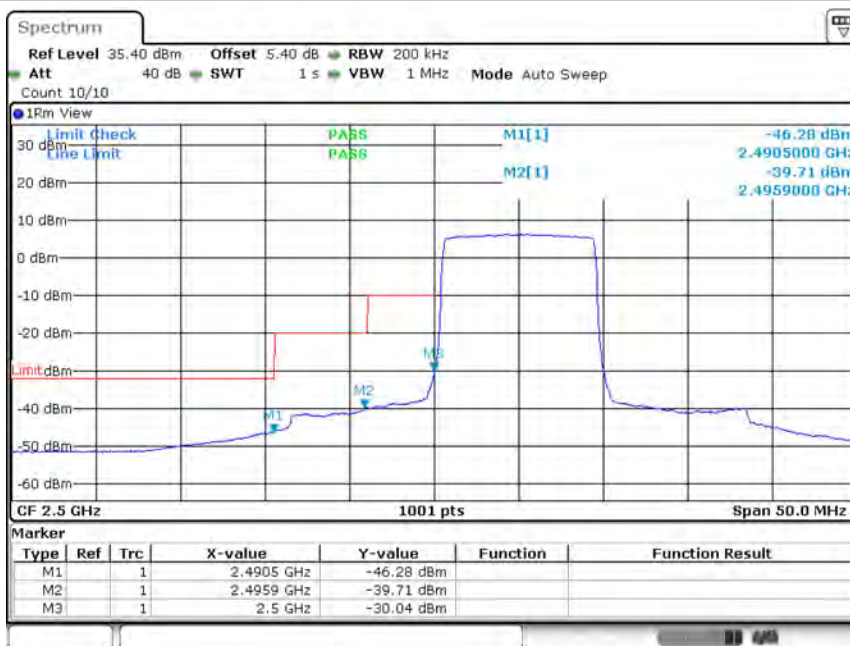


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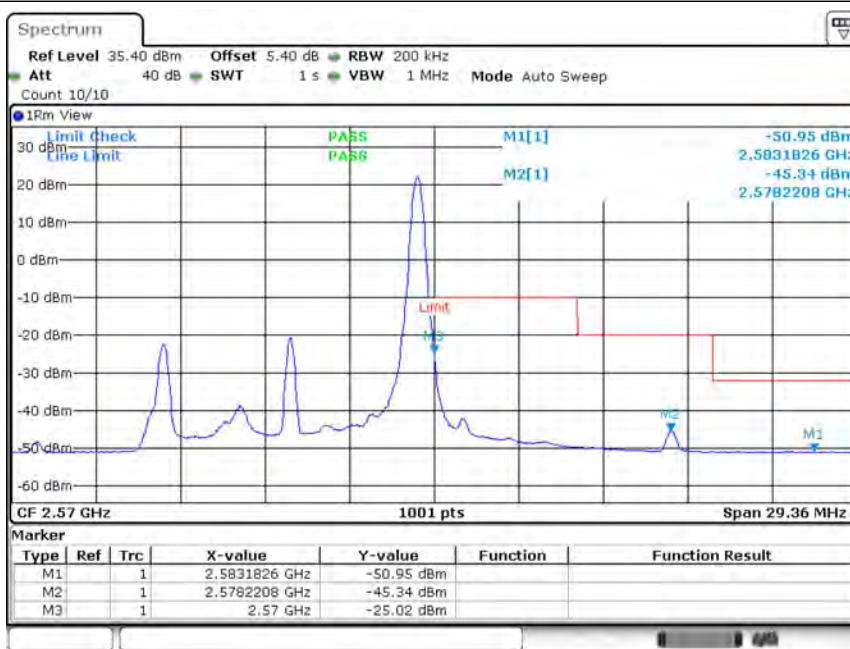


Band7-10MHz-QPSK-20800-50RB#0



Date: 27 JUN 2020 14:12:37

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



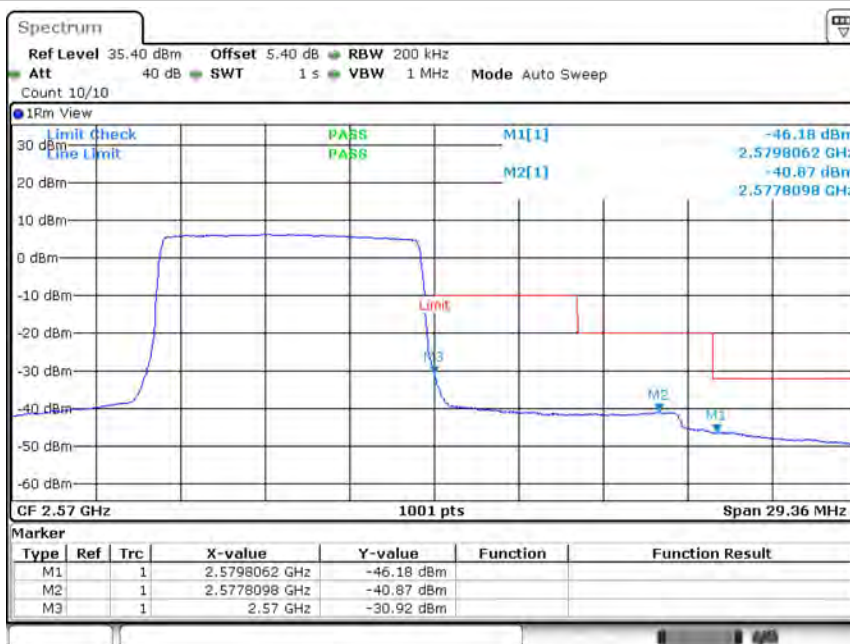
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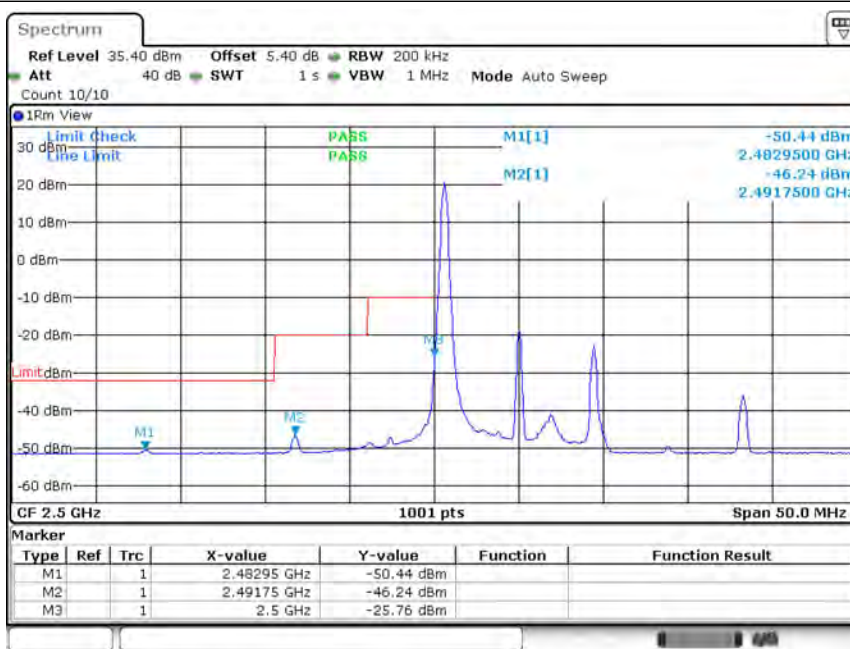
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Band7-10MHz-QPSK-21400-50RB#0



Date: 27 JUN 2020 14:13:21

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



Date: 27 JUN 2020 14:11:24



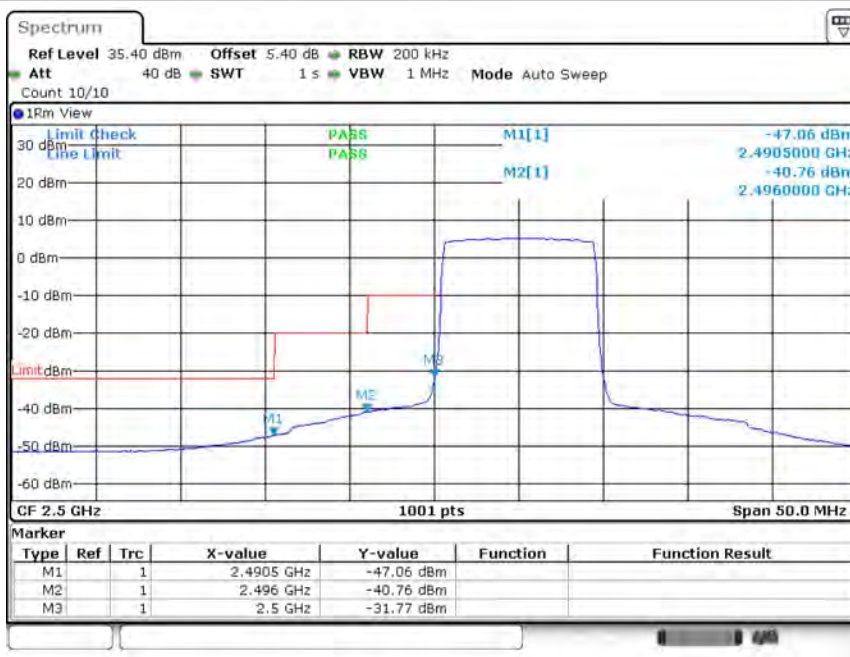
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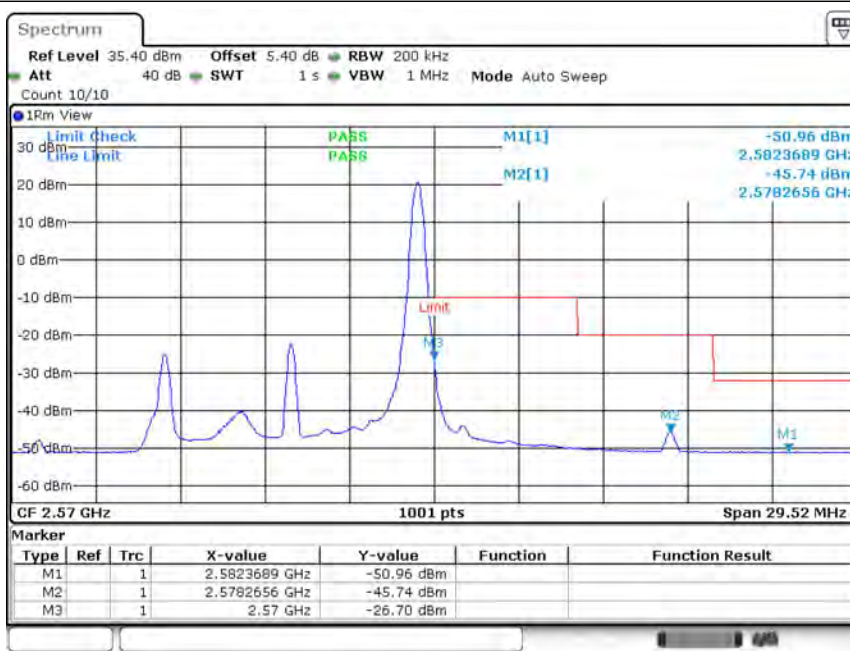


Band7-10MHz-16QAM-20800-50RB#0



Date: 27 JUN 2020 14:12:59

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



Date: 27 JUN 2020 14:12:11

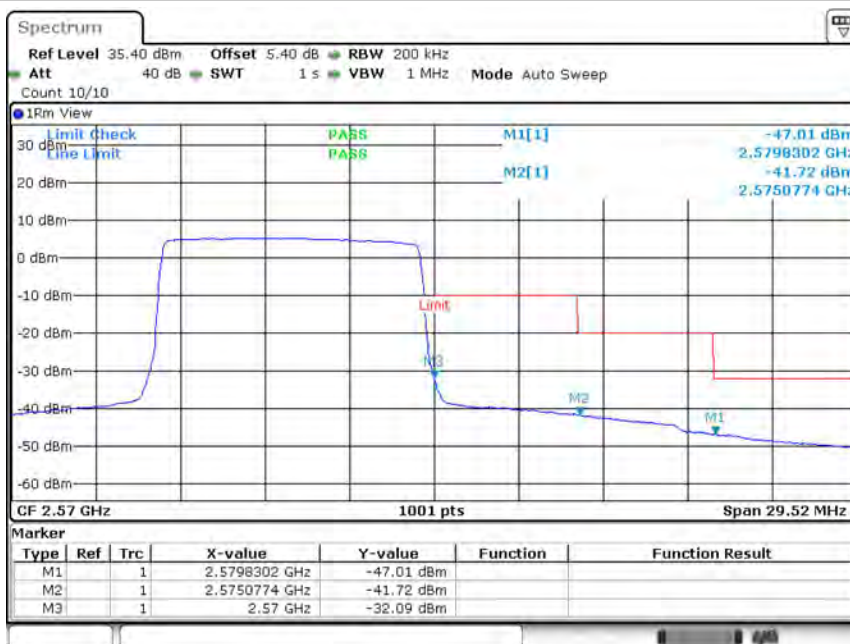


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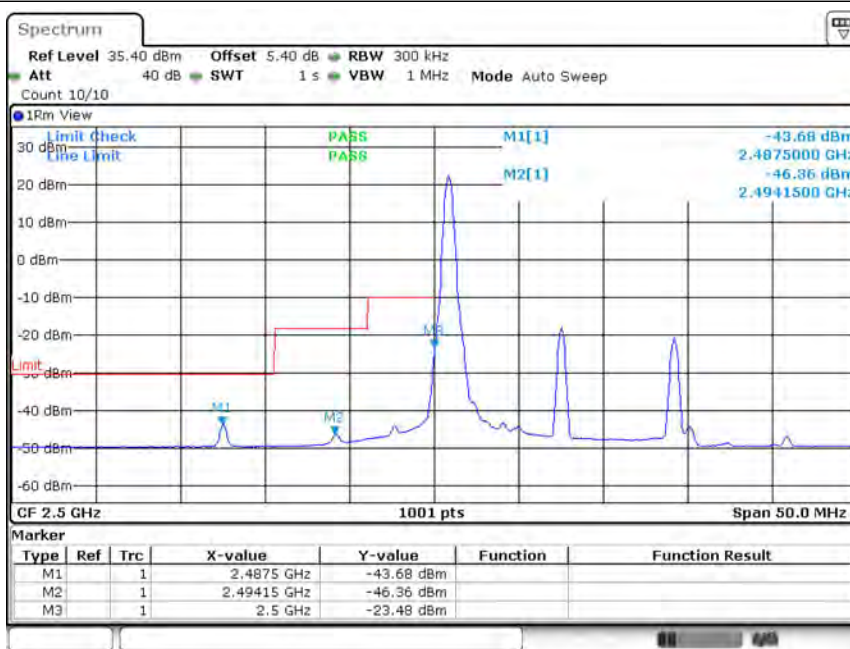


Band7-10MHz-16QAM-21400-50RB#0



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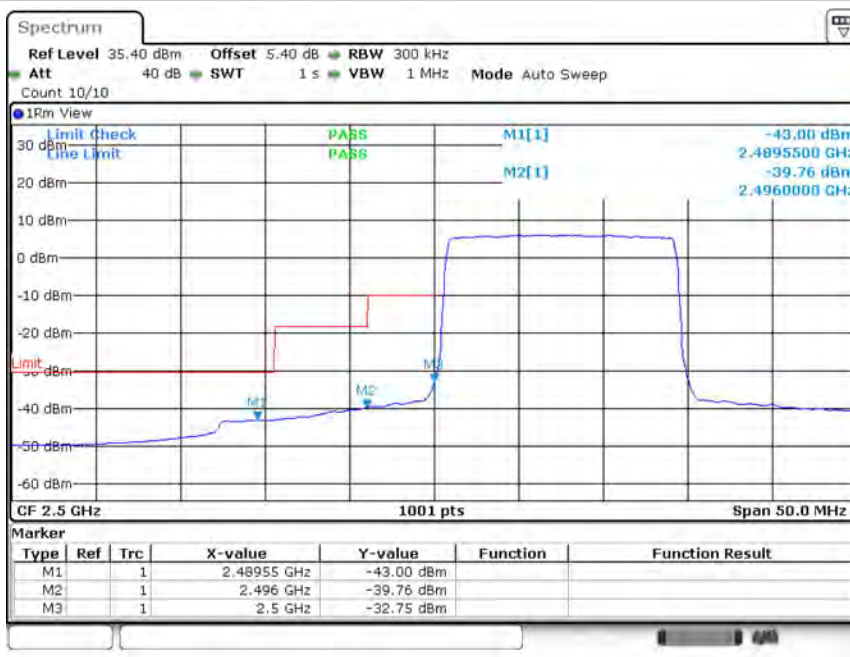
Band7-15MHz-QPSK-20825-1RB#0



Date: 27 JUN 2020 14:14:08

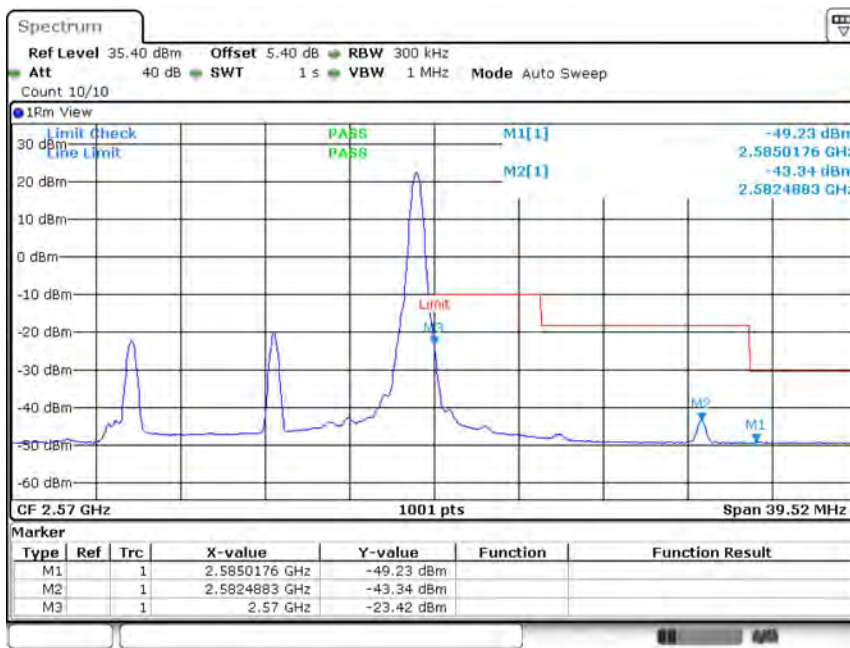


Band7-15MHz-QPSK-20825-75RB#0



Date: 27 JUN 2020 14:15:42

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



Date: 27 JUN 2020 14:14:55

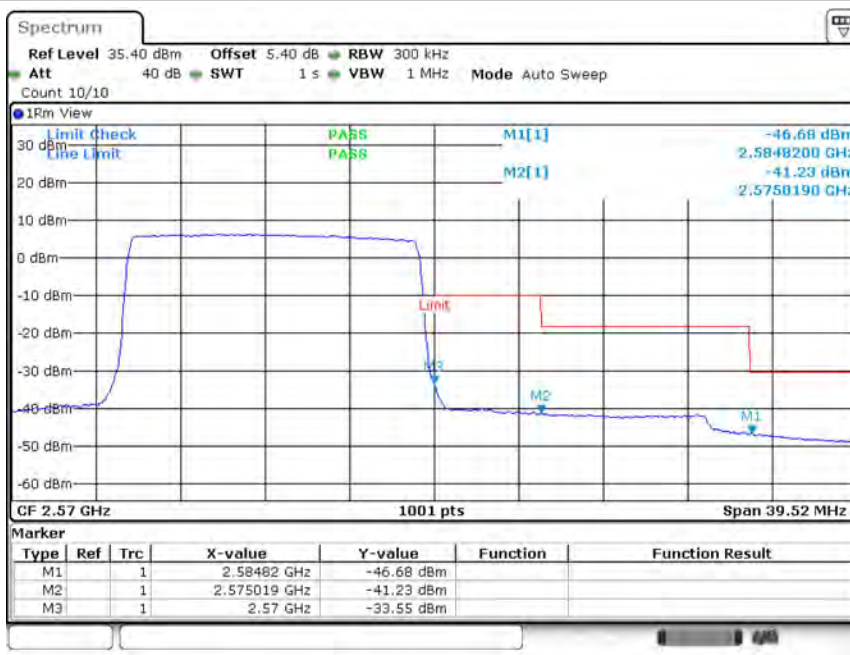


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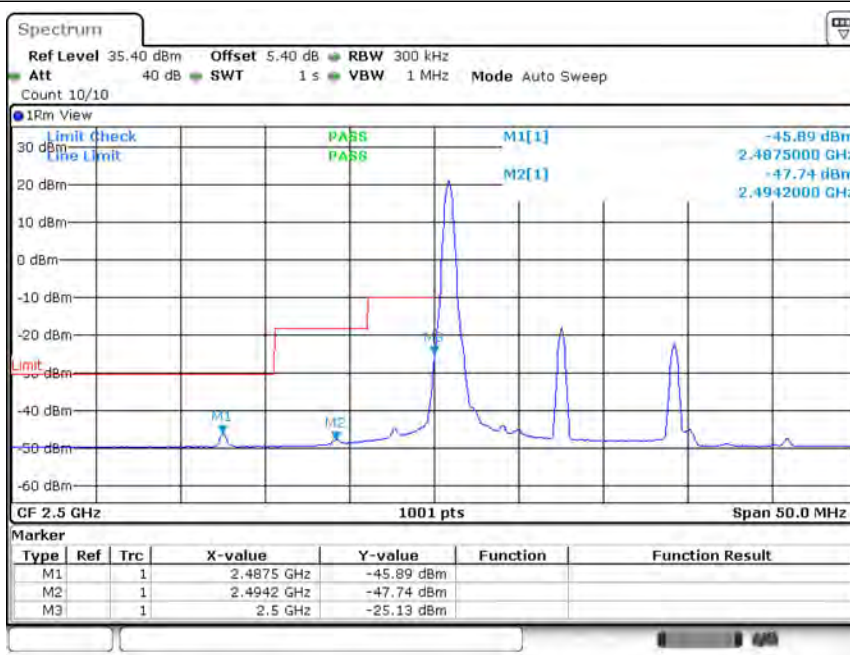
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Band7-15MHz-QPSK-21375-75RB#0



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





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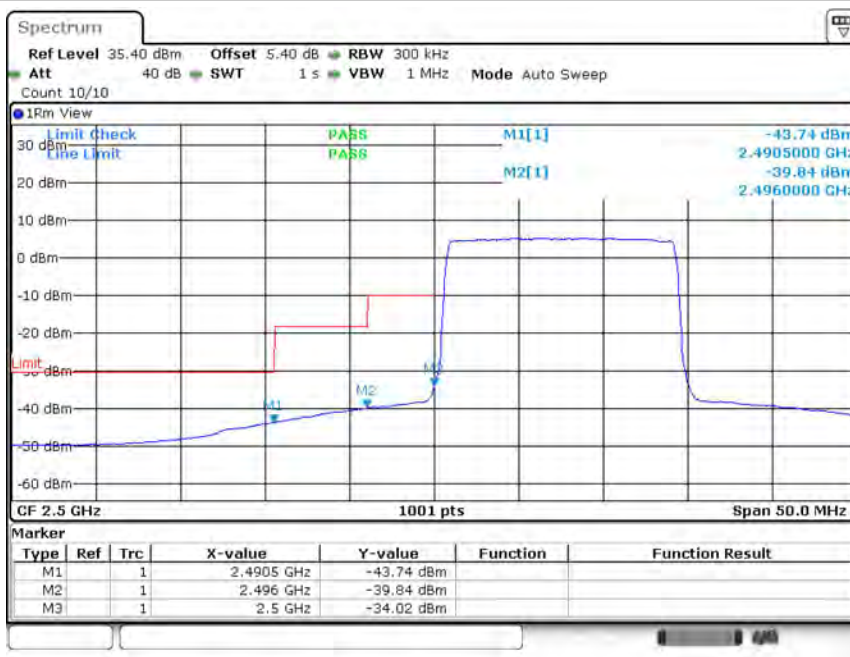
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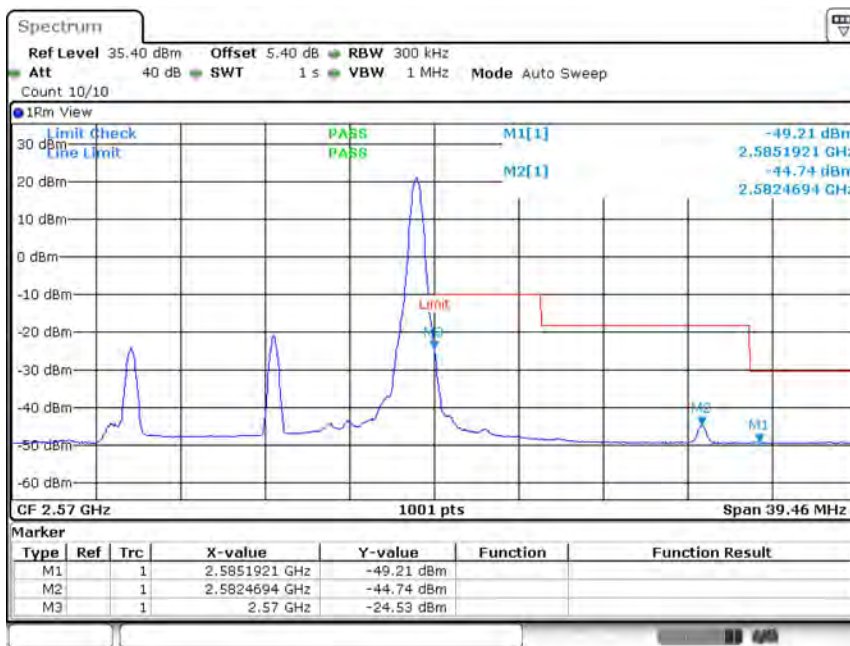


Band7-15MHz-16QAM-20825-75RB#0



Date: 27 JUN 2020 14:16:04

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



Date: 27 JUN 2020 14:15:16

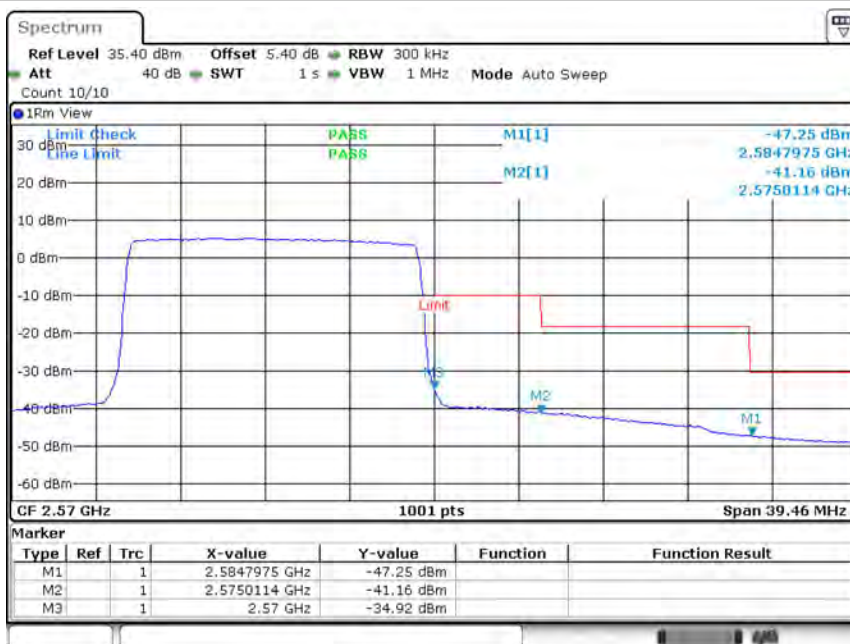


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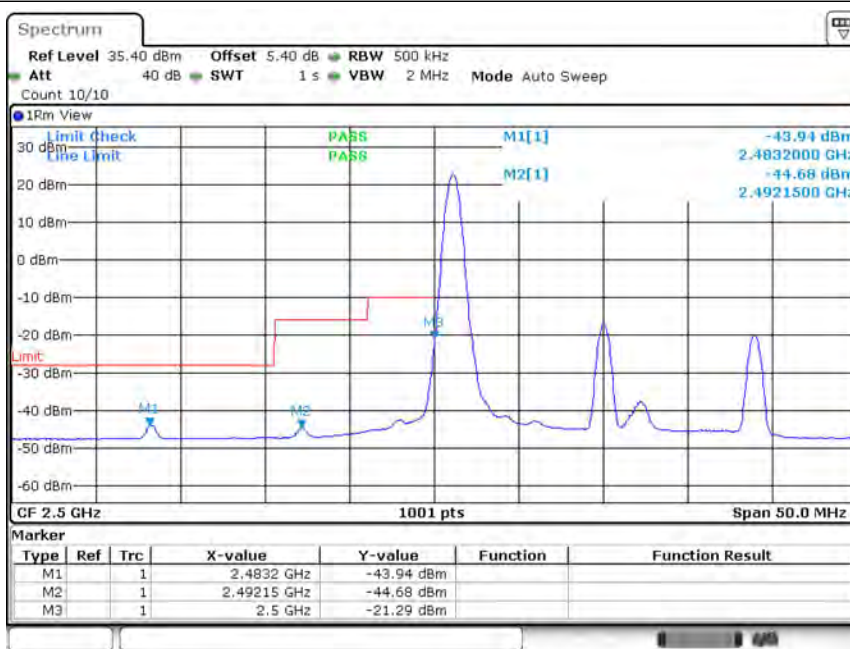


Band7-15MHz-16QAM-21375-75RB#0



Date: 27 JUN 2020 14:16:47

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



Date: 27 JUN 2020 14:17:13



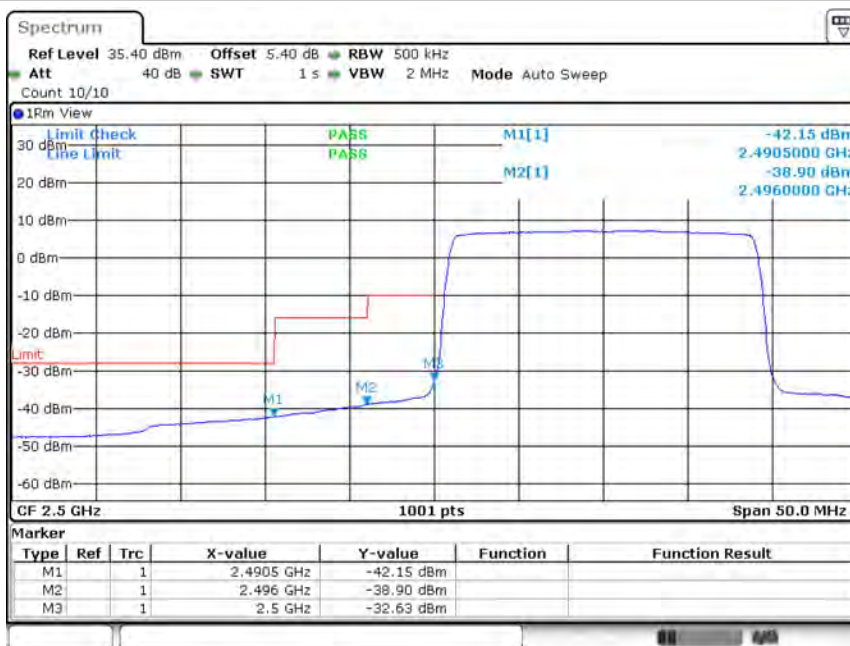
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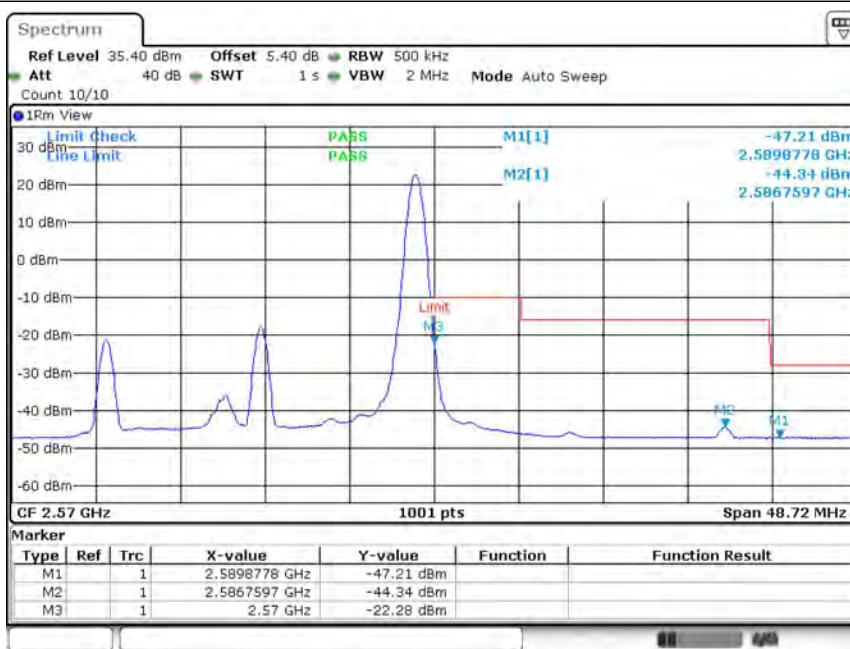


Band7-20MHz-QPSK-20850-100RB#0



Date: 27 JUN 2020 14:18:47

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



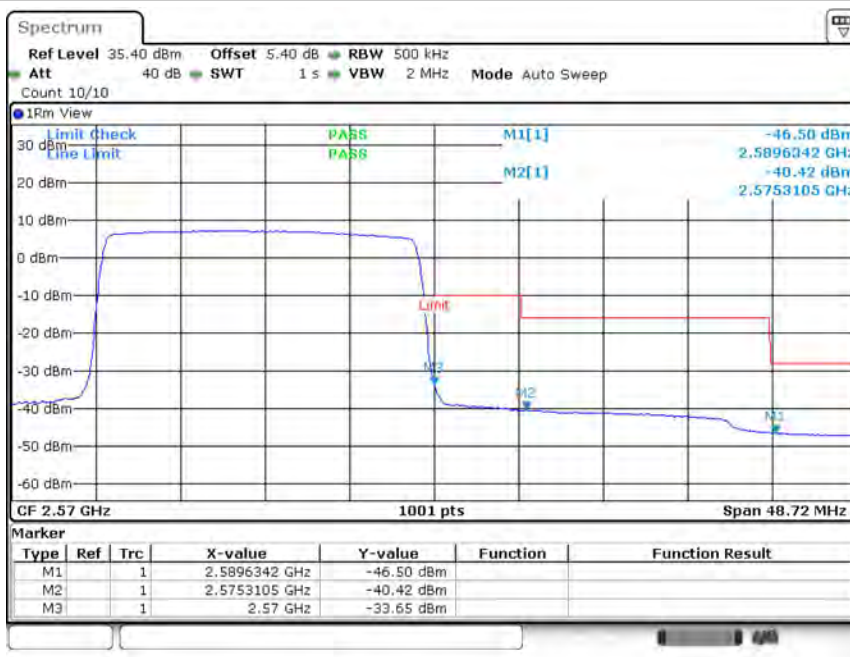
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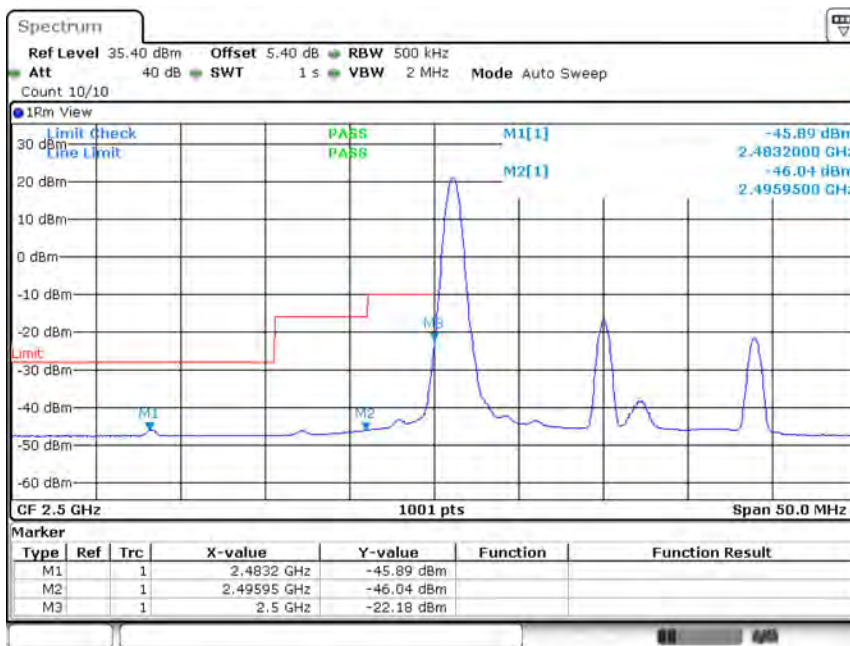
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Band7-20MHz-QPSK-21350-100RB#0



Date: 27 JUN 2020 14:19:30

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



Date: 27 JUN 2020 14:17:34

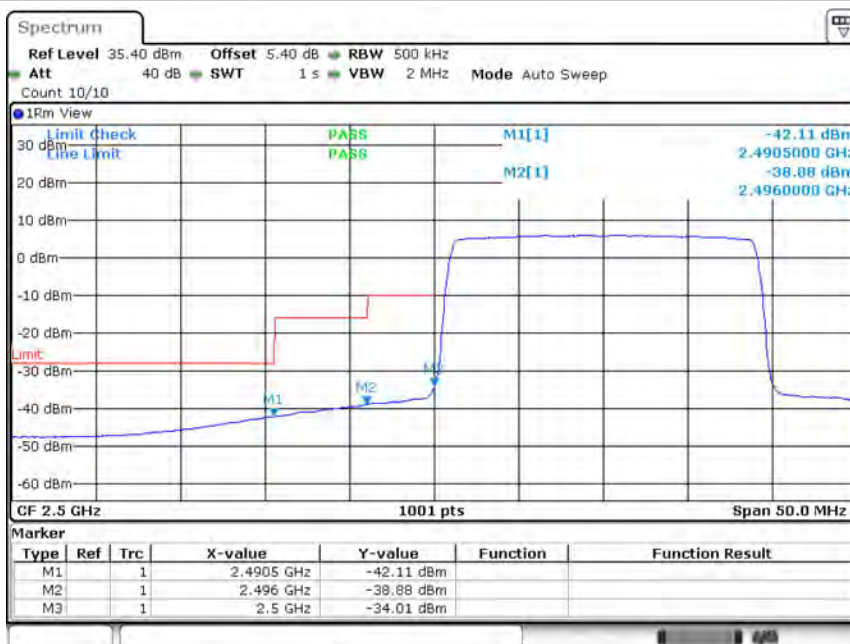


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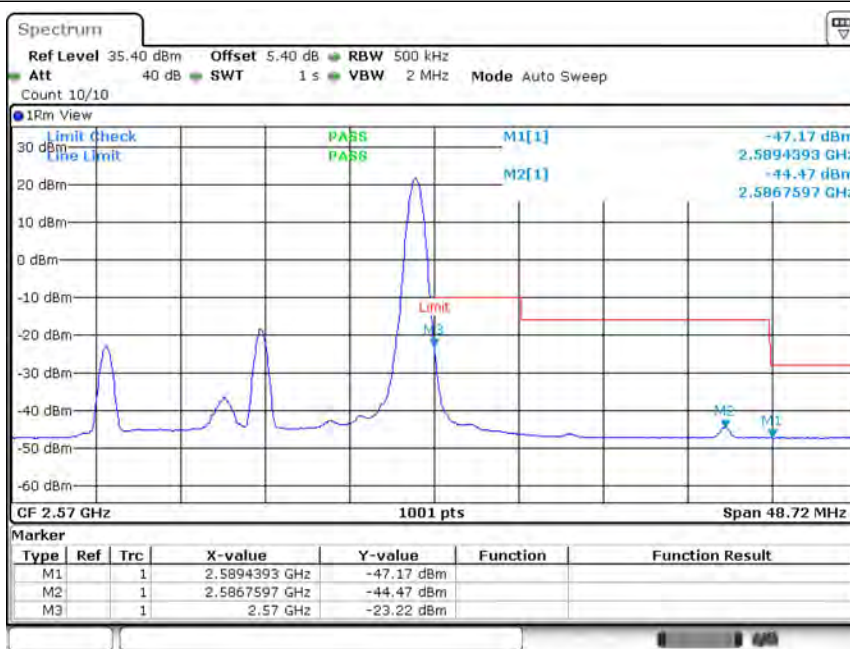


Band7-20MHz-16QAM-20850-100RB#0



Date: 27 JUN 2020 14:19:08

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



Date: 27 JUN 2020 14:18:21

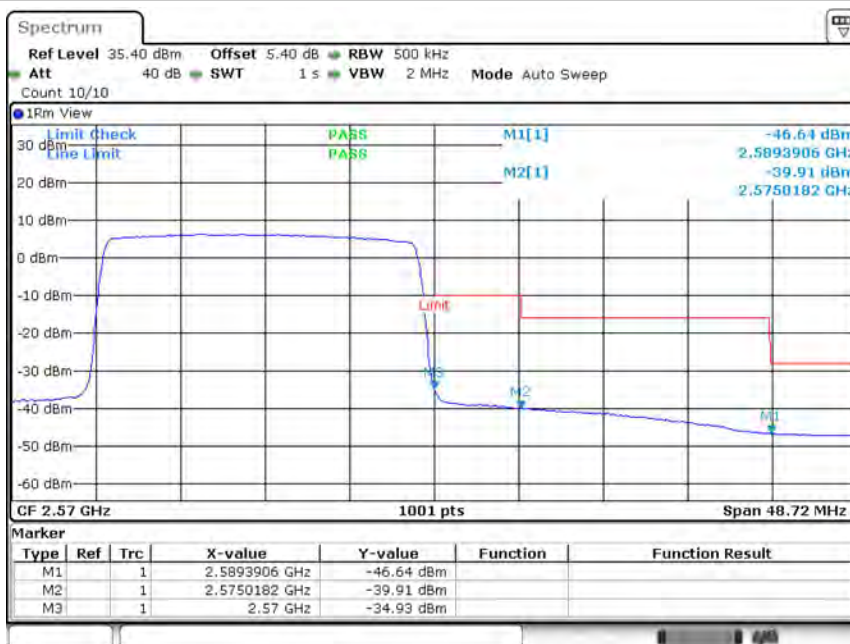


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Band7-20MHz-16QAM-21350-100RB#0



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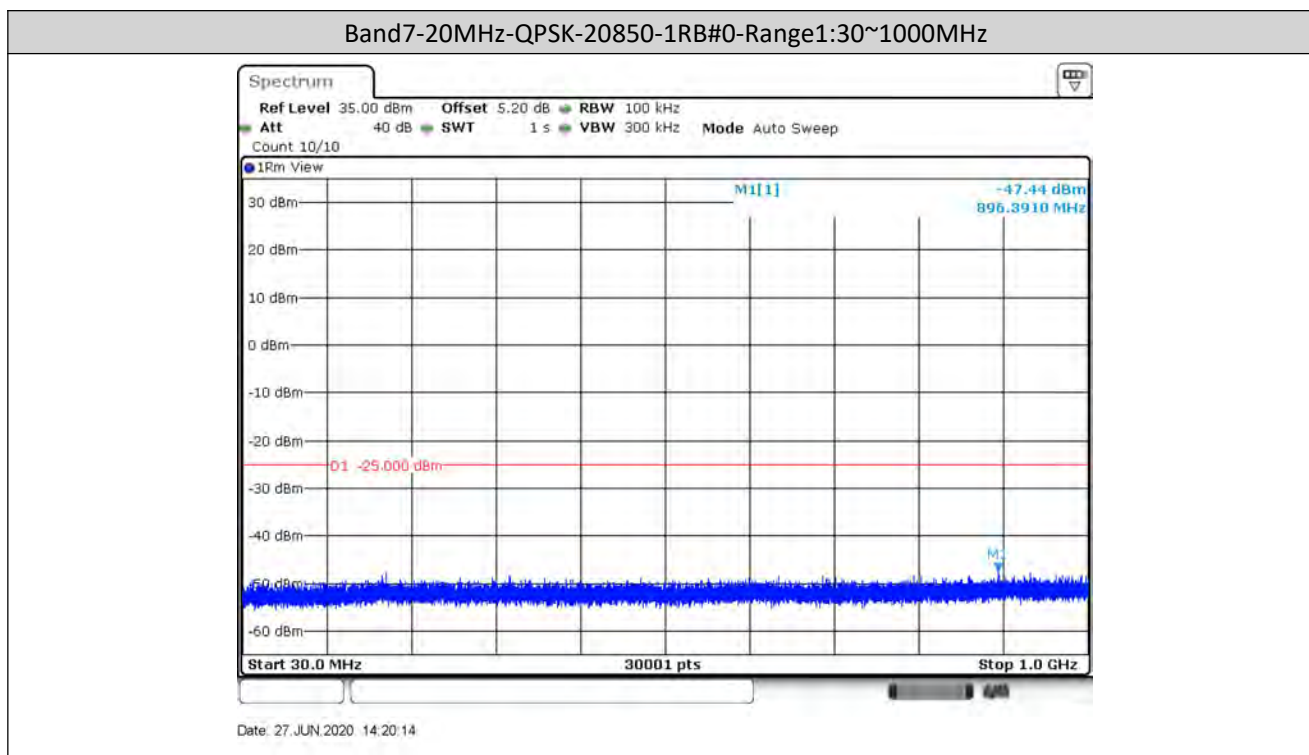


6. Spurious Emission at Antenna Terminal

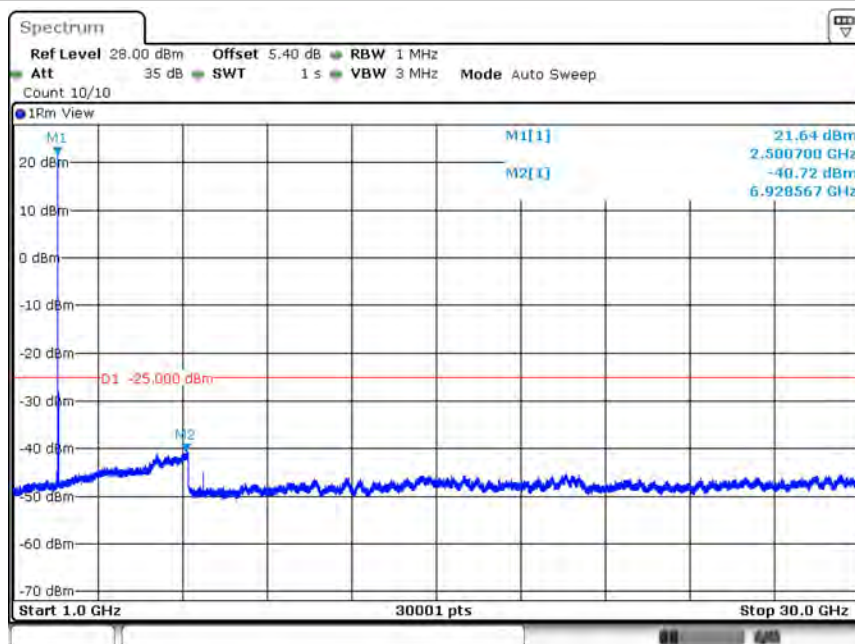
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

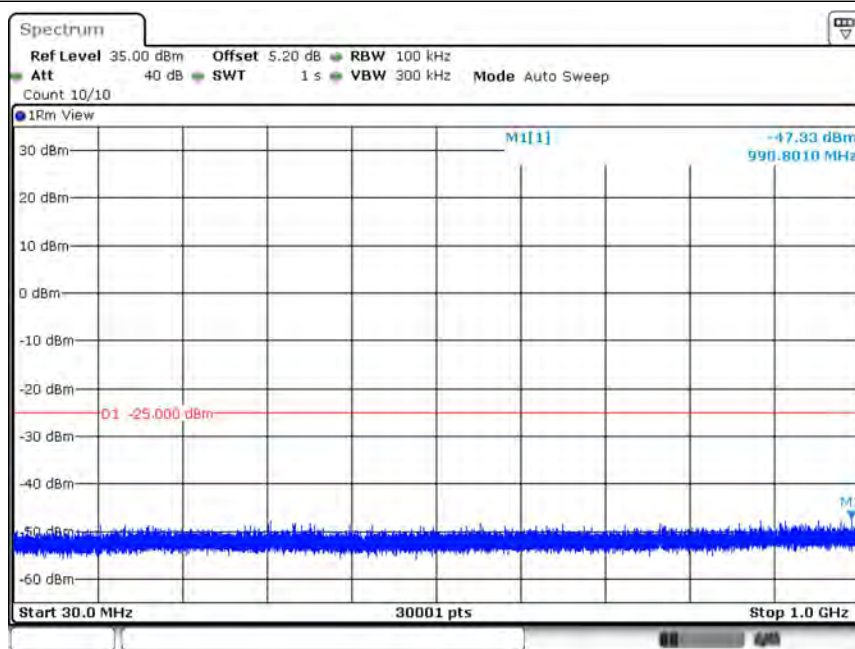
6.1. Test Plots



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

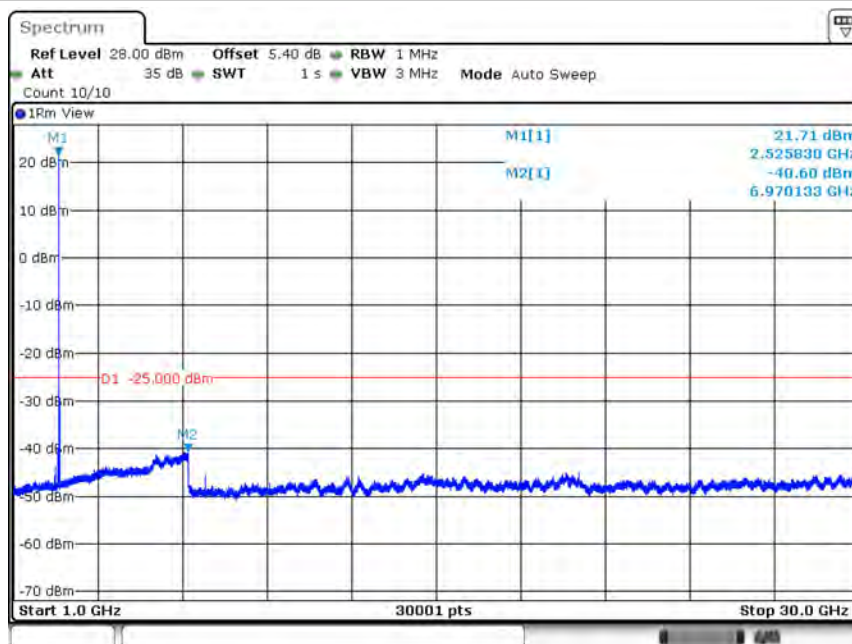


Band7-20MHz-QPSK-21100-1RB#0-Range1:30~1000MHz



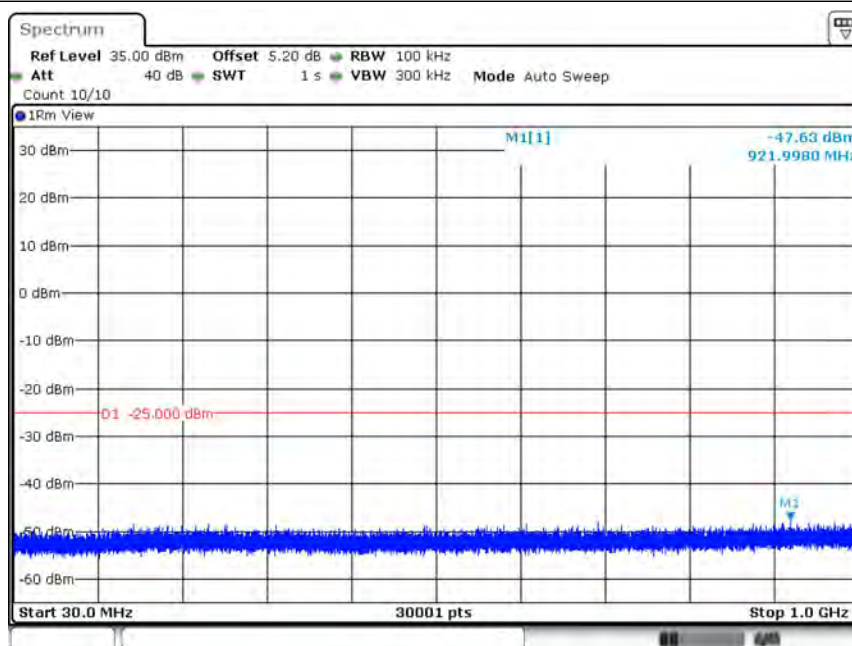


Band7-20MHz-QPSK-21100-1RB#0-Range2:1000~30000MHz



Date: 27 JUN 2020 14:21:41

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



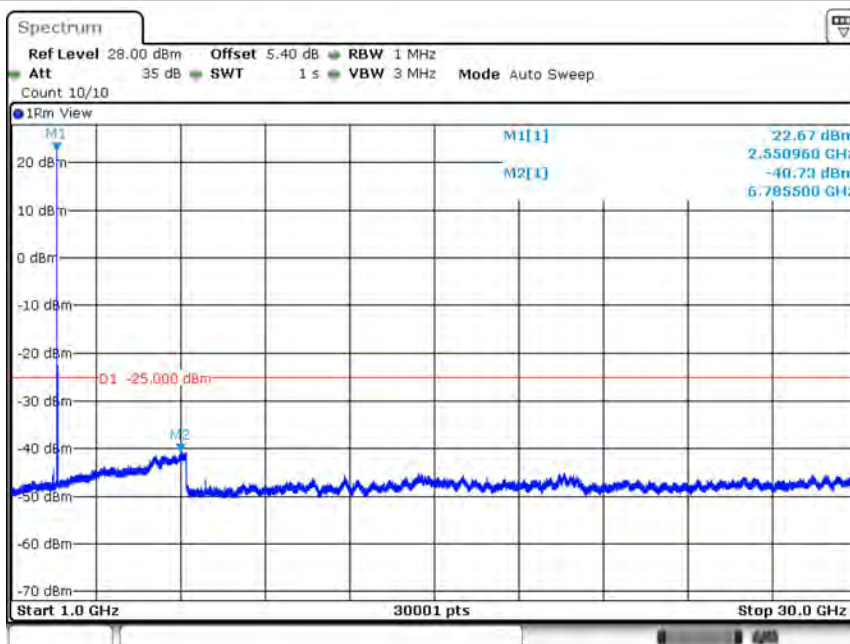
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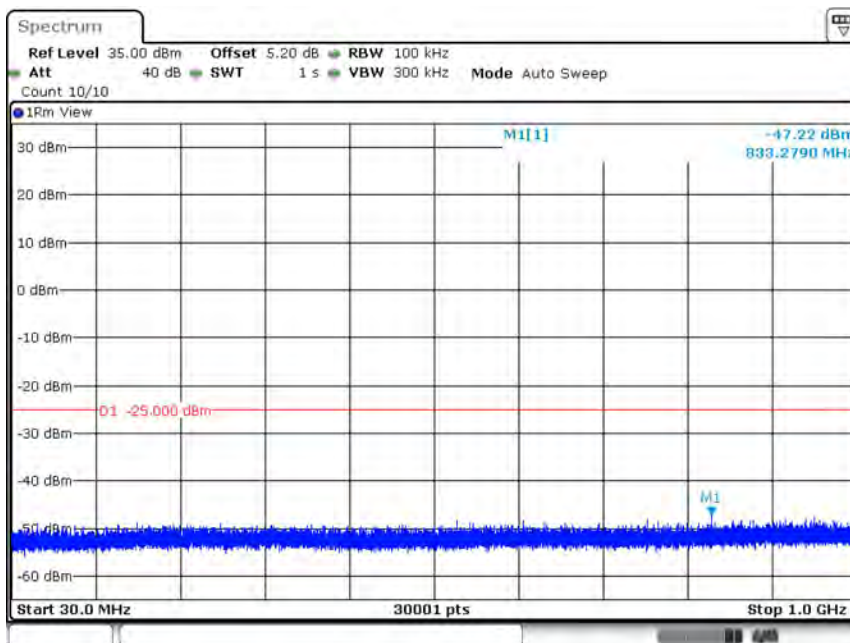
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Band7-20MHz-QPSK-21350-1RB#0-Range2:1000~30000MHz



Date: 27 JUN 2020 14:22:52

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

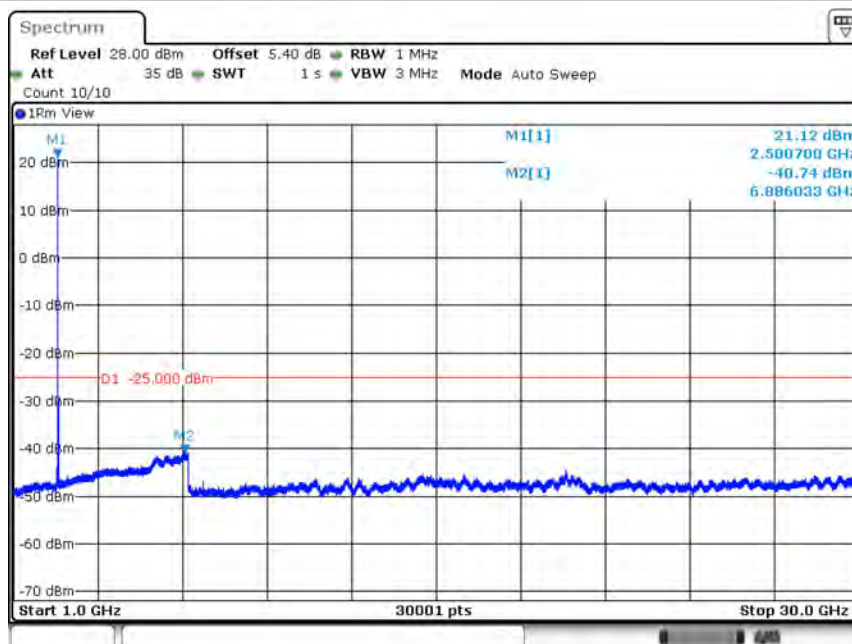


Date: 27 JUN 2020 14:20:50



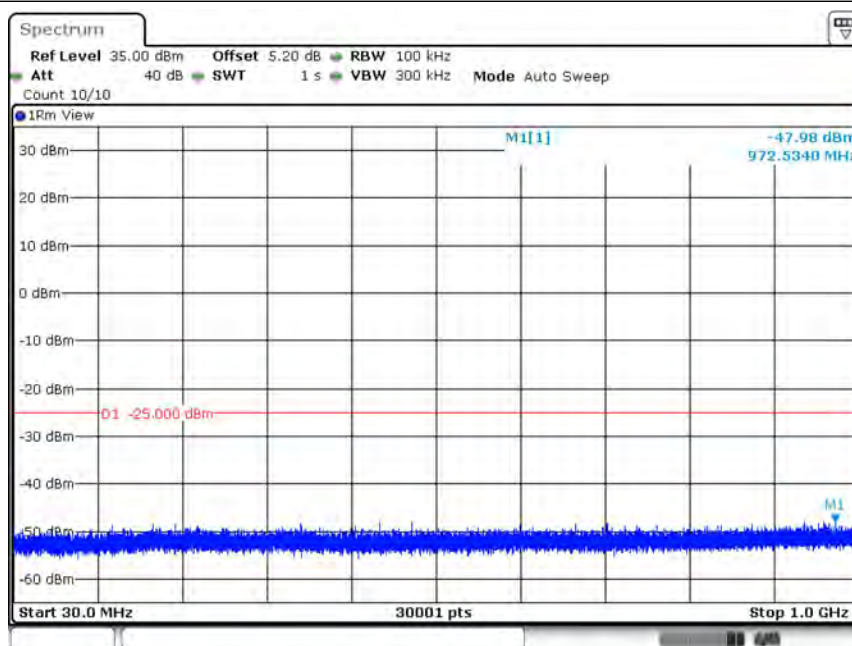


Band7-20MHz-16QAM-20850-1RB#0-Range2:1000~30000MHz



Date: 27 JUN 2020 14:21:06

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



Date: 27 JUN 2020 14:22:00

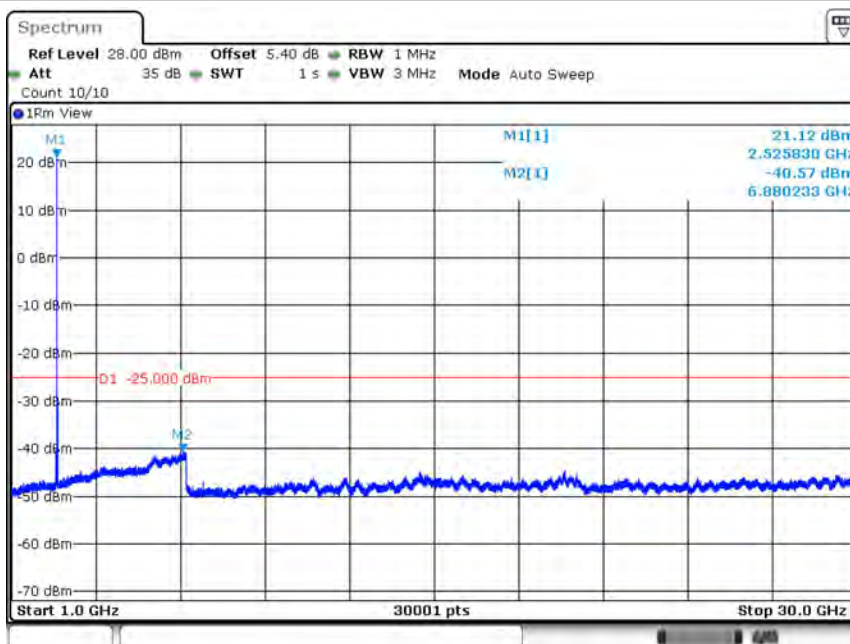


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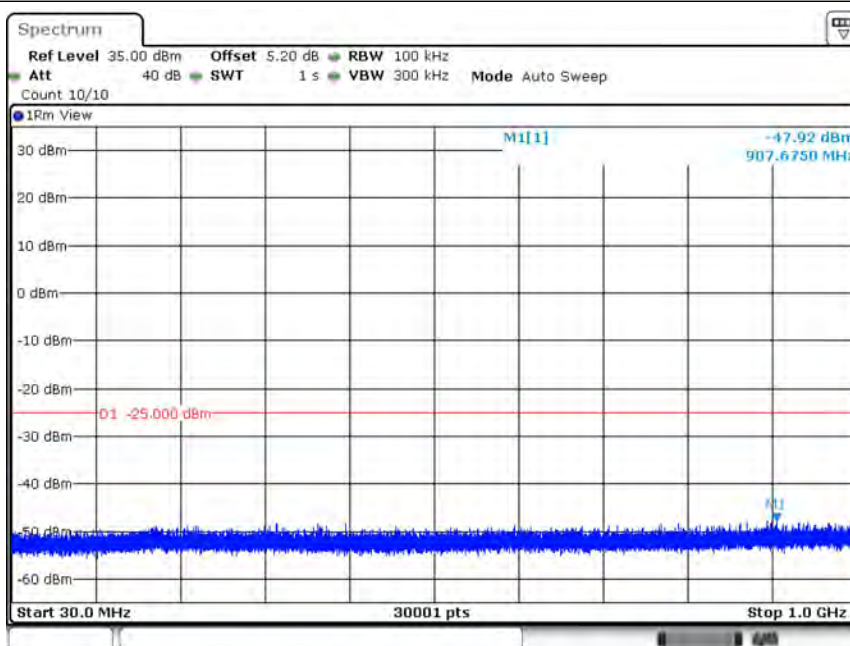
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Date: 27 JUN 2020 14:22:16

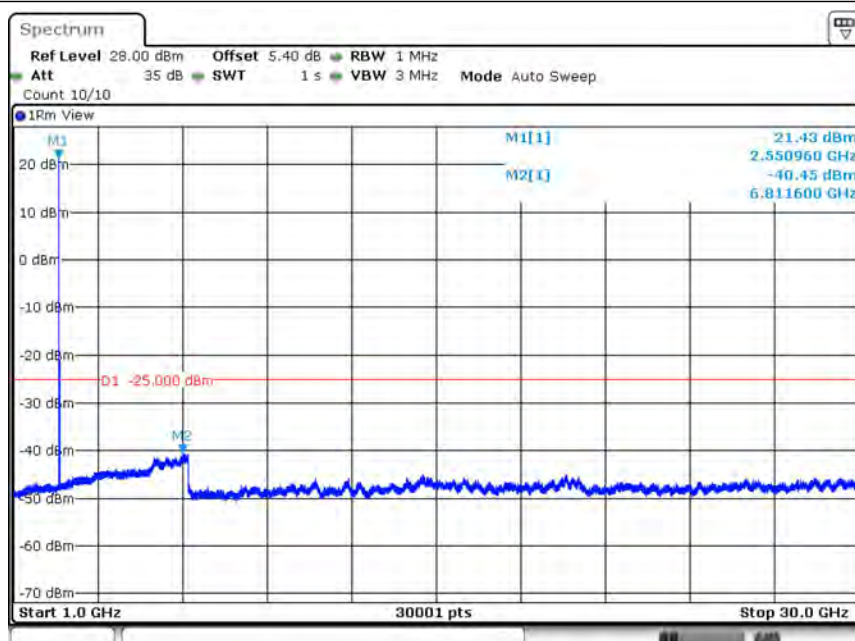
Band7-20MHz-16QAM-21350-1RB#0-Range1:30~1000MHz



Date: 27 JUN 2020 14:23:11



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



Date: 27 JUN 2020 14:23:27



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7. Field Strength of Spurious Radiation

7.1. Test Band = LTE Band 7

7.1.1. Test Mode = LTE/TM1 20MHz

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.5820	-53.97	-25.00	28.97	Vertical
76.2713	-54.69	-25.00	29.69	Vertical
1632.1264	-45.77	-25.00	20.77	Vertical
5002.2801	-58.15	-25.00	33.15	Vertical
14716.6687	-49.62	-25.00	24.62	Vertical
17995.1998	-42.07	-25.00	17.07	Vertical
-51.60	-59.80	-25.00	34.80	Horizontal
-50.84	-62.19	-25.00	37.19	Horizontal
-68.09	-44.79	-25.00	19.79	Horizontal
-56.55	-60.50	-25.00	35.50	Horizontal
-57.63	-53.42	-25.00	28.42	Horizontal
-55.18	-45.81	-25.00	20.81	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.9215	-54.15	-25.00	29.15	Vertical
78.4054	-54.61	-25.00	29.61	Vertical
1722.5445	-45.23	-25.00	20.23	Vertical
5052.0821	-58.82	-25.00	33.82	Vertical
14359.0544	-50.24	-25.00	25.24	Vertical
17999.4000	-42.36	-25.00	17.36	Vertical
41.5921	-59.09	-25.00	34.09	Horizontal
61.2841	-58.51	-25.00	33.51	Horizontal
1809.3619	-44.59	-25.00	19.59	Horizontal
5052.0821	-61.77	-25.00	36.77	Horizontal
12831.9933	-52.62	-25.00	27.62	Horizontal
16389.5356	-45.81	-25.00	20.81	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
75.3983	-54.74	-25.00	29.74	Vertical
321.8876	-70.34	-25.00	45.34	Vertical
731.4421	-63.98	-25.00	38.98	Vertical
2987.9976	-39.46	-25.00	14.46	Vertical
5101.8841	-56.99	-25.00	31.99	Vertical
17996.9999	-42.71	-25.00	17.71	Vertical
41.9316	-57.78	-25.00	32.78	Horizontal
63.9517	-59.20	-25.00	34.20	Horizontal
228.6174	-67.85	-25.00	42.85	Horizontal
1800.1600	-44.67	-25.00	19.67	Horizontal
5102.4841	-58.84	-25.00	33.84	Horizontal
16396.1358	-45.71	-25.00	20.71	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.





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	2.20	0.000876	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	3.30	0.001315	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	0.20	0.000080	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-3.70	-0.001460	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-5.30	-0.002091	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-3.00	-0.001183	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	2.20	0.000859	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	1.00	0.000391	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	2.00	0.000781	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	0.50	0.000199	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	2.30	0.000916	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	-0.10	-0.000040	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	-2.00	-0.000789	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	-5.40	-0.002130	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	-3.50	-0.001381	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	-0.10	-0.000039	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	0.60	0.000234	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	-0.40	-0.000156	±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	2.20	0.000876	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	-0.70	-0.000279	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	0.20	0.000080	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	4.00	0.001594	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	4.20	0.001673	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	0.30	0.000120	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	4.00	0.001594	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	1.70	0.000677	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-2.00	-0.000789	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-3.10	-0.001223	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-4.00	-0.001578	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-3.20	-0.001262	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-1.50	-0.000592	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-2.90	-0.001144	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-4.20	-0.001657	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-3.70	-0.001460	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	-0.60	-0.000234	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	-0.10	-0.000039	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	1.20	0.000469	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	2.90	0.001133	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	3.80	0.001484	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	-0.30	-0.000117	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	0.00	0.000000	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	-1.50	-0.000586	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	-0.30	-0.000120	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	2.90	0.001155	±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	0.30	0.000120	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	1.60	0.000637	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	0.20	0.000080	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	3.00	0.001195	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	0.80	0.000319	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	-3.50	-0.001381	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	-2.60	-0.001026	±2.5	PASS



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Band7	20MHz	16QAM	21100	100RB#0	NV	0	-2.40	-0.000947	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	-3.00	-0.001183	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	-3.30	-0.001302	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	-1.80	-0.000710	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	-1.80	-0.000710	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	-1.70	-0.000671	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	0.50	0.000195	±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	0	2.70	0.001055	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	-0.20	-0.000078	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	2.00	0.000781	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	-1.80	-0.000703	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	40	-2.20	-0.000859	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	0.10	0.000039	±2.5	PASS



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