



Appendix B

E-UTRA Band 7



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

ANT2:

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	24.85	28	30.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	24.47	27.62	30.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	24.53	27.68	30.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	23.53	26.68	30.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	23.57	26.72	30.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	23.65	26.8	30.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	23.57	26.72	30.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	24.70	27.85	30.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	24.68	27.83	30.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	24.60	27.75	30.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	23.70	26.85	30.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	23.75	26.9	30.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	23.87	27.02	30.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	23.69	26.84	30.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	24.65	27.8	30.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	24.61	27.76	30.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	24.52	27.67	30.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	23.63	26.78	30.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	23.66	26.81	30.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	23.62	26.77	30.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	23.46	26.61	30.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	23.62	26.77	30.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	23.00	26.15	30.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.86	26.01	30.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	22.67	25.82	30.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	22.46	25.61	30.00	PASS





Band7	5MHz	16QAM	20775	12RB#13	22.58	25.73	30.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	22.73	25.88	30.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	23.27	26.42	30.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	23.84	26.99	30.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	23.14	26.29	30.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	22.66	25.81	30.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	22.47	25.62	30.00	PASS
Band7	5MHz	16QAM	21100	12RB#6	22.64	25.79	30.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	22.58	25.73	30.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	23.29	26.44	30.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	23.24	26.39	30.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	23.65	26.8	30.00	PASS
Band7	5MHz	16QAM	21425	12RB#0	22.25	25.4	30.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	22.36	25.51	30.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	22.32	25.47	30.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	22.70	25.85	30.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	24.55	27.7	30.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	24.98	28.13	30.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	24.59	27.74	30.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	23.70	26.85	30.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	23.84	26.99	30.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	24.05	27.2	30.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	23.83	26.98	30.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	24.76	27.91	30.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	24.90	28.05	30.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	24.80	27.95	30.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	23.74	26.89	30.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	23.56	26.71	30.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	23.82	26.97	30.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	23.72	26.87	30.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	24.70	27.85	30.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	24.99	28.14	30.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	24.79	27.94	30.00	PASS



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Band7	10MHz	QPSK	21400	25RB#0	23.72	26.87	30.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	23.68	26.83	30.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	23.60	26.75	30.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	23.69	26.84	30.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	23.34	26.49	30.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	23.14	26.29	30.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	23.40	26.55	30.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	22.77	25.92	30.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	22.70	25.85	30.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	22.69	25.84	30.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	22.71	25.86	30.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	23.11	26.26	30.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	23.26	26.41	30.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	23.12	26.27	30.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	22.82	25.97	30.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	22.90	26.05	30.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	22.73	25.88	30.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	22.83	25.98	30.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	23.37	26.52	30.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	23.45	26.6	30.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	23.26	26.41	30.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	22.73	25.88	30.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	22.78	25.93	30.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	22.76	25.91	30.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	22.86	26.01	30.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	24.71	27.86	30.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	24.82	27.97	30.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	24.53	27.68	30.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	23.77	26.92	30.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	23.69	26.84	30.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	23.68	26.83	30.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	23.82	26.97	30.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	24.85	28	30.00	PASS



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Band7	15MHz	QPSK	21100	1RB#74	24.82	27.97	30.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	24.92	28.07	30.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	23.59	26.74	30.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	23.77	26.92	30.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	23.70	26.85	30.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	23.73	26.88	30.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	24.66	27.81	30.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	24.57	27.72	30.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	24.70	27.85	30.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	23.60	26.75	30.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	23.66	26.81	30.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	23.65	26.8	30.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	23.40	26.55	30.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	23.02	26.17	30.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	23.25	26.4	30.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	23.53	26.68	30.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	22.71	25.86	30.00	PASS
Band7	15MHz	16QAM	20825	36RB#0	22.60	25.75	30.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	22.78	25.93	30.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	22.69	25.84	30.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	23.38	26.53	30.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	23.11	26.26	30.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	23.09	26.24	30.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	22.86	26.01	30.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	22.70	25.85	30.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	22.67	25.82	30.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	22.76	25.91	30.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	23.44	26.59	30.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.93	26.08	30.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	23.19	26.34	30.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	22.64	25.79	30.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	22.79	25.94	30.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	22.57	25.72	30.00	PASS



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Band7	15MHz	16QAM	21375	75RB#0	22.61	25.76	30.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	24.78	27.93	30.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	24.88	28.03	30.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	24.93	28.08	30.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	23.64	26.79	30.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	23.94	27.09	30.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	23.73	26.88	30.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	23.63	26.78	30.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	24.60	27.75	30.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	24.90	28.05	30.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	24.65	27.8	30.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	23.58	26.73	30.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	23.70	26.85	30.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	23.81	26.96	30.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	23.73	26.88	30.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	24.53	27.68	30.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	24.79	27.94	30.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	24.75	27.9	30.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	23.68	26.83	30.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	23.77	26.92	30.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	23.57	26.72	30.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	23.67	26.82	30.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	23.25	26.4	30.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	23.46	26.61	30.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	23.34	26.49	30.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	22.87	26.02	30.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	22.77	25.92	30.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	23.07	26.22	30.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	22.52	25.67	30.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	23.18	26.33	30.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	23.16	26.31	30.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	23.31	26.46	30.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	22.80	25.95	30.00	PASS



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Band7	20MHz	16QAM	21100	50RB#0	22.84	25.99	30.00	PASS
Band7	20MHz	16QAM	21100	50RB#25	22.68	25.83	30.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	22.74	25.89	30.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	23.15	26.3	30.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	23.08	26.23	30.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	23.68	26.83	30.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	22.81	25.96	30.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	22.41	25.56	30.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	22.77	25.92	30.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	22.59	25.74	30.00	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]

The conducted Power is measured by Base Station Simulator



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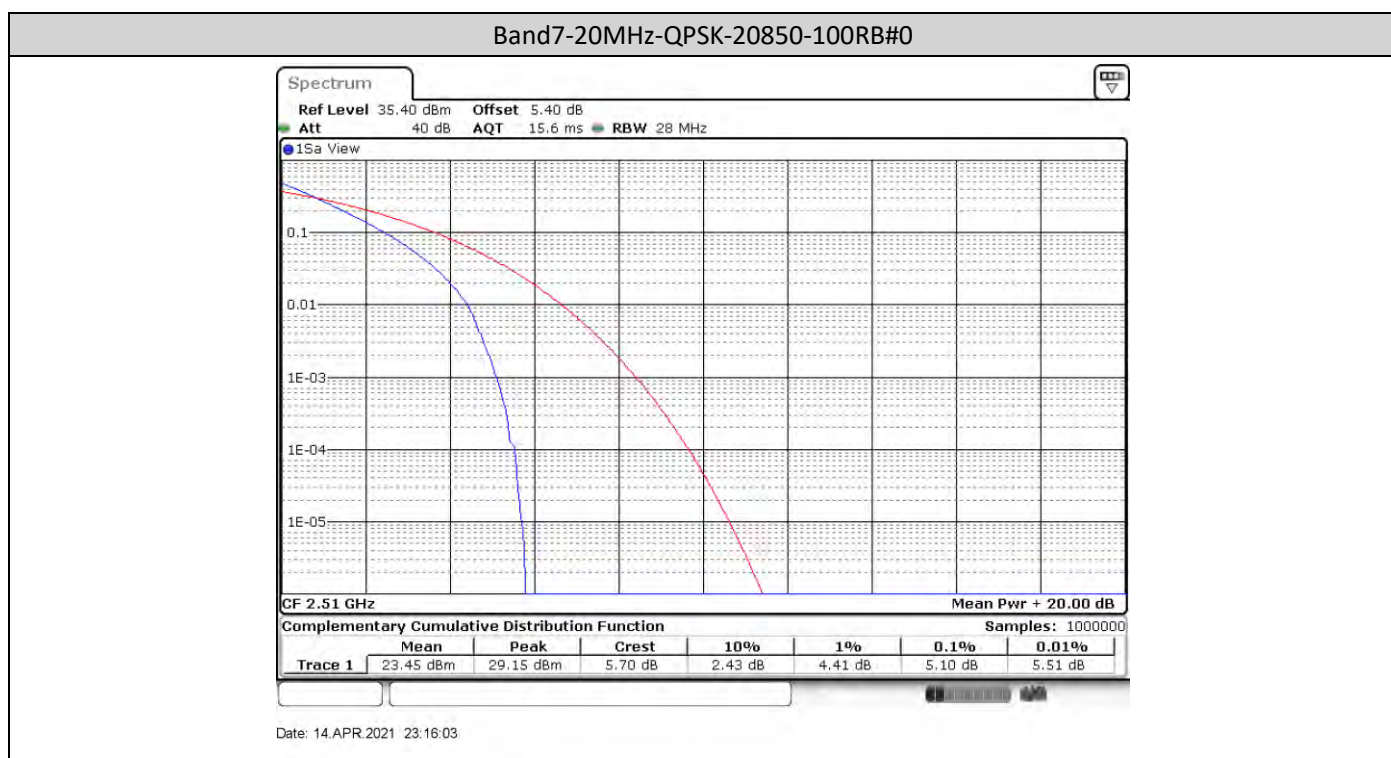


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	5.10	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	4.96	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.01	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.97	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.88	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.94	13	PASS

2.2. Test Plots

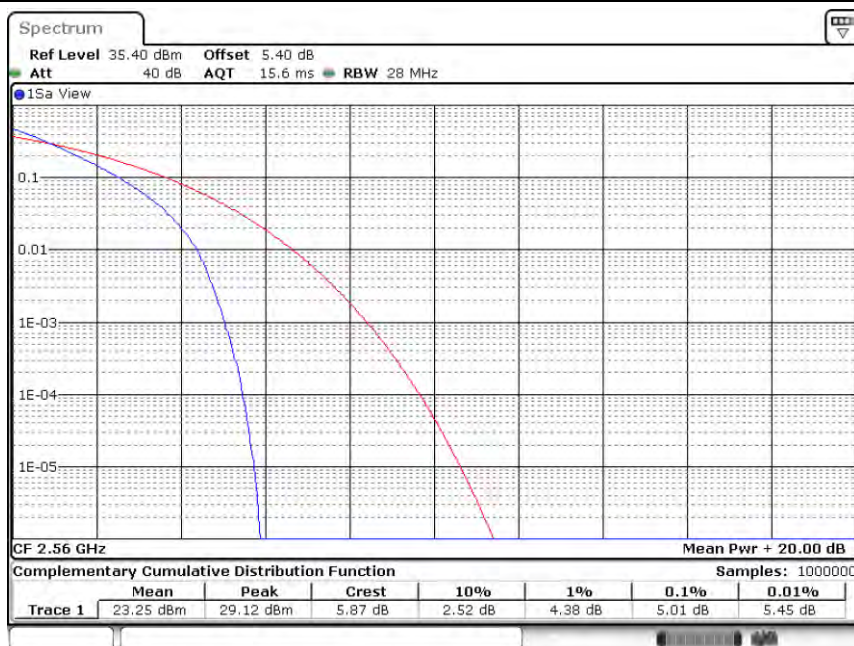


Band7-20MHz-QPSK-21100-100RB#0



Date: 14 APR 2021 23:16:26

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



Date: 14 APR 2021 23:16:49



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



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



Date: 14 APR 2021 23:16:37



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



Date: 14 APR 2021 23:17:00

Remark: all modulation and all Bandwidth had been tested, but only the worst configuration was displayed in this report.



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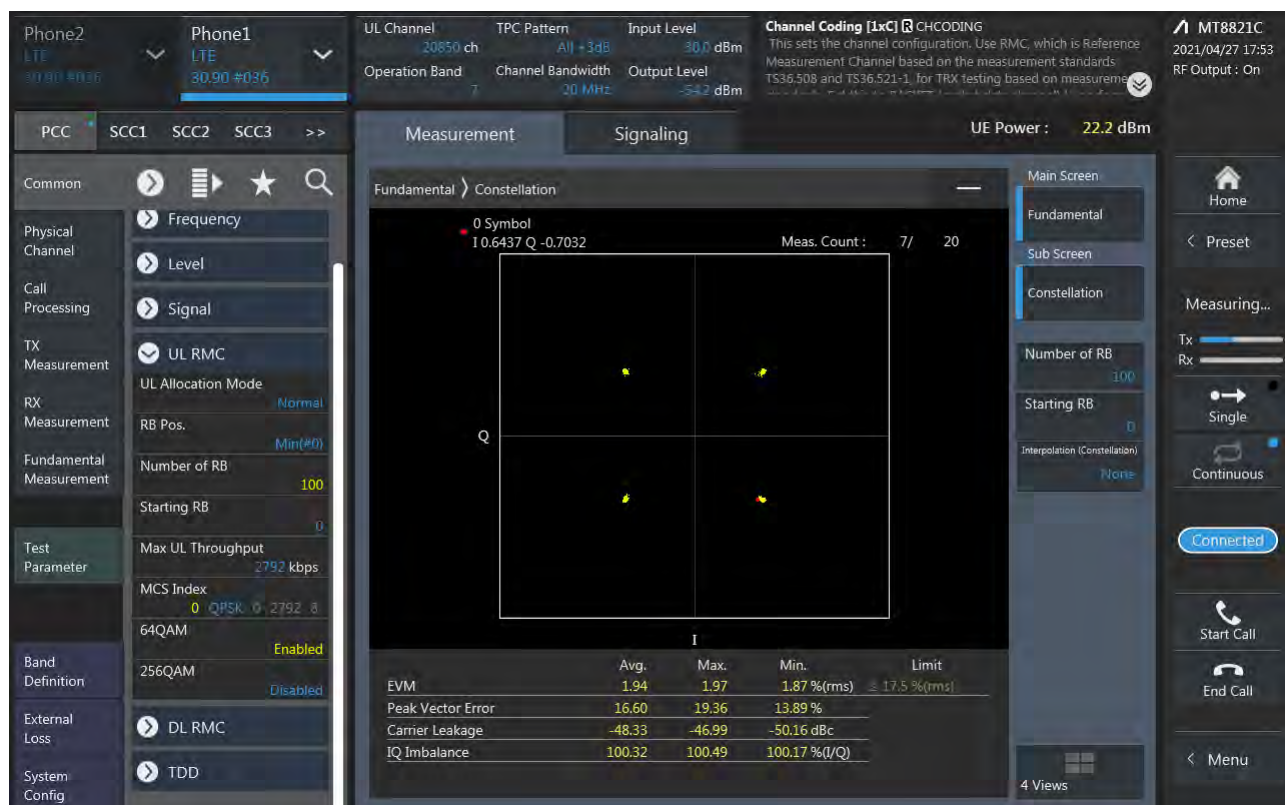


3. Modulation Characteristics

3.1. Test Band = LTE Band 7

3.1.1. Test Mode = LTE /TM1 20MHz

3.1.1.1. Test Channel = MCH



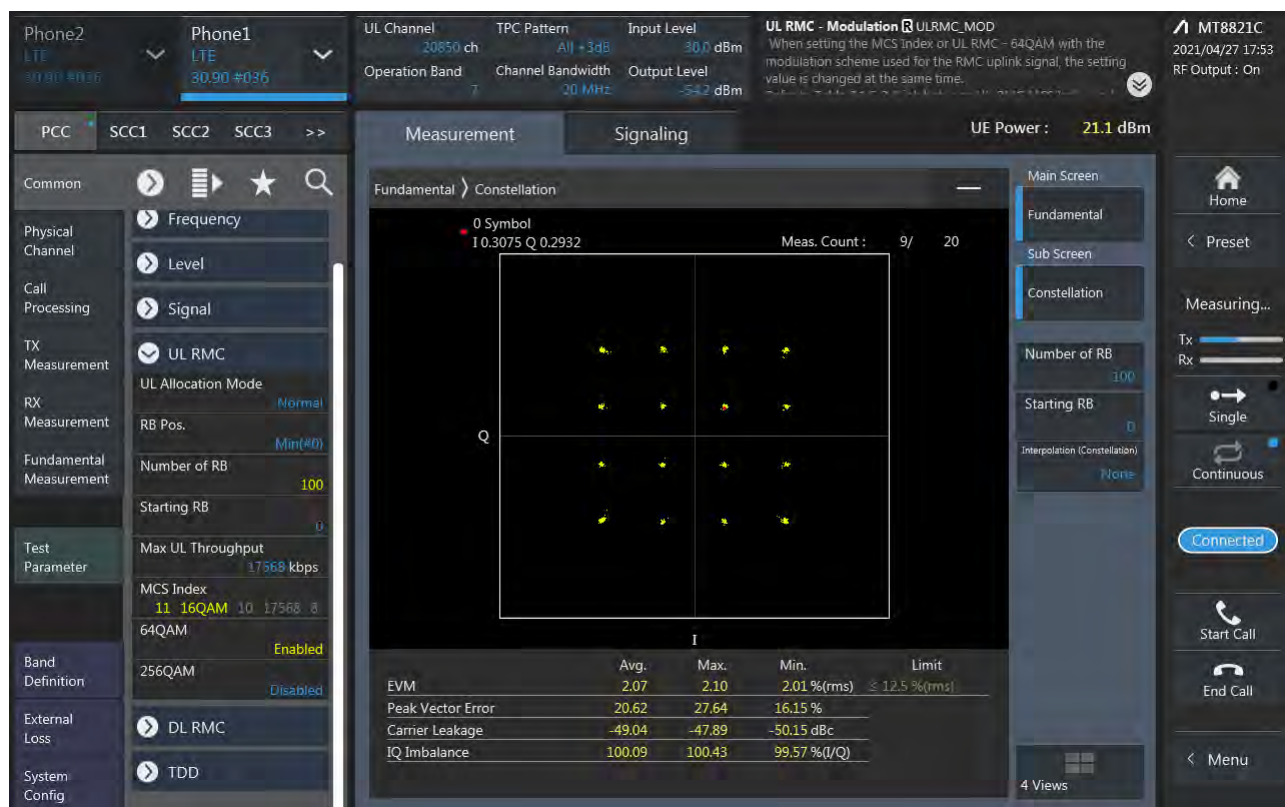
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3.1.2. Test Mode = LTE /TM2 20MHz

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	4.476	4.940	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.466	4.930	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	4.950	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.476	4.930	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.476	4.940	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.486	4.910	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.931	9.720	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.911	9.700	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.911	9.700	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.911	9.740	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.911	9.740	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.911	9.760	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.457	14.790	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.427	14.790	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.427	14.820	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.427	14.790	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.427	14.790	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.427	14.730	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.862	19.400	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.822	19.440	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.862	19.400	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.902	19.400	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.862	19.440	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.822	19.440	PASS



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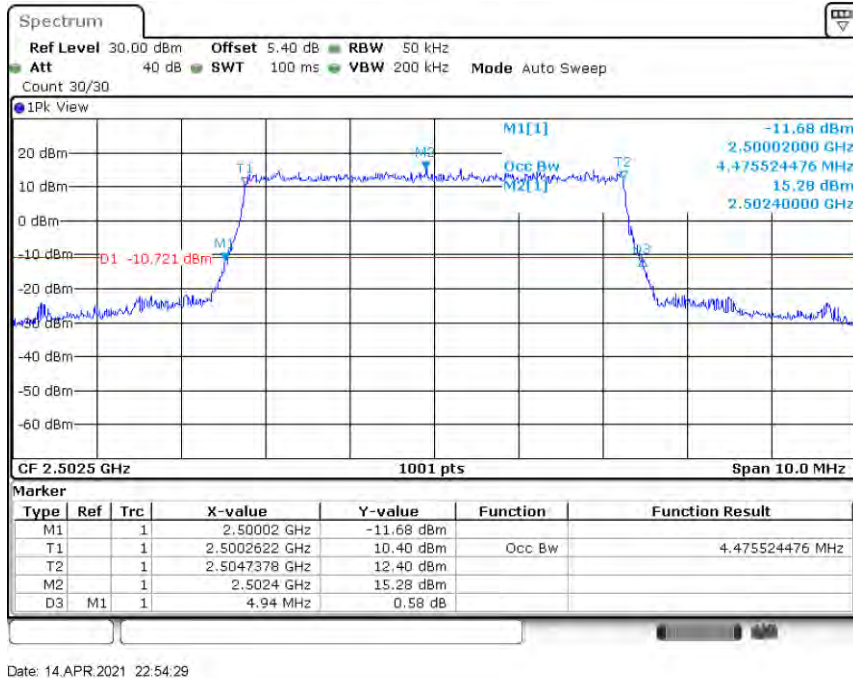
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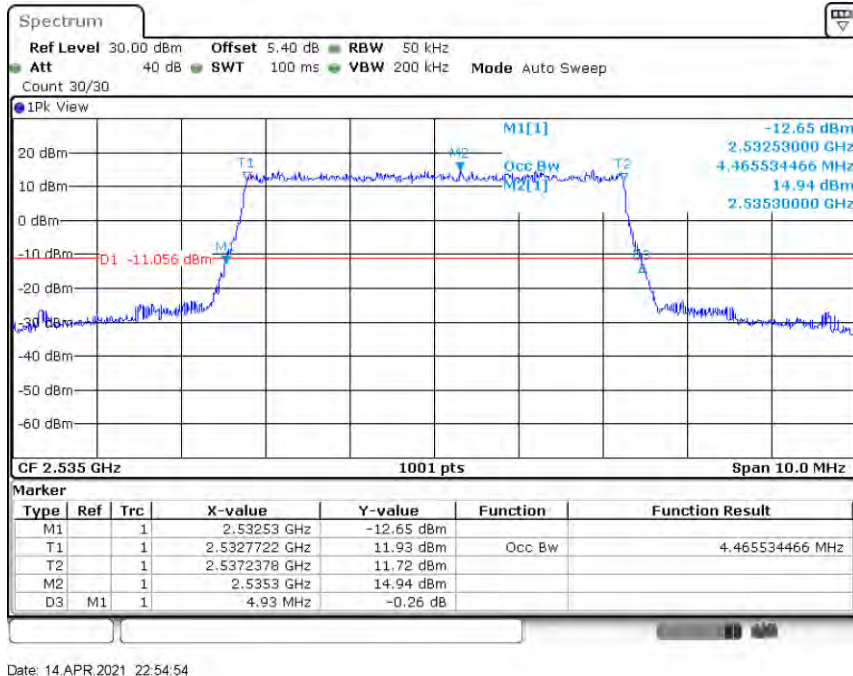


4.2. Test Plots

Band7-5MHz-QPSK-20775-25RB#0-4.476



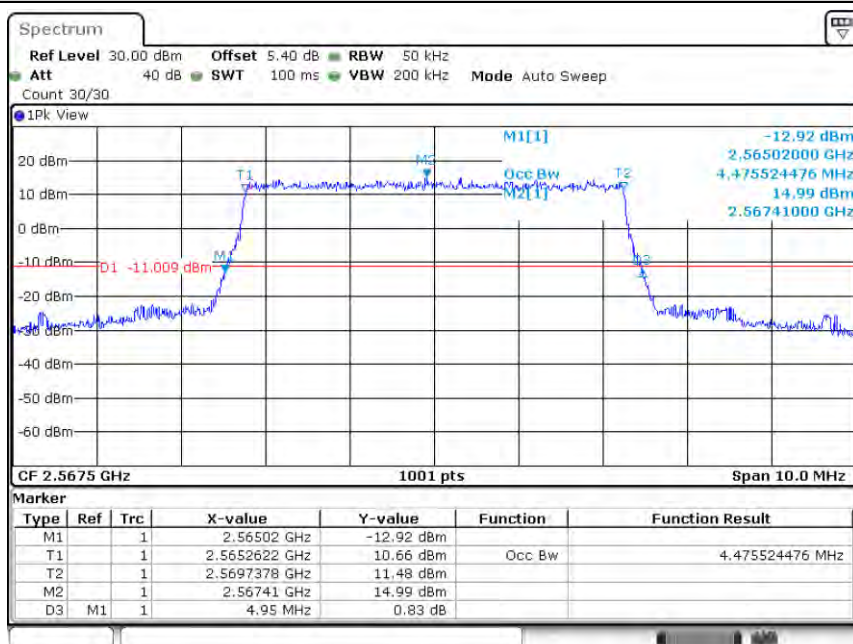
Band7-5MHz-QPSK-21100-25RB#0-4.466



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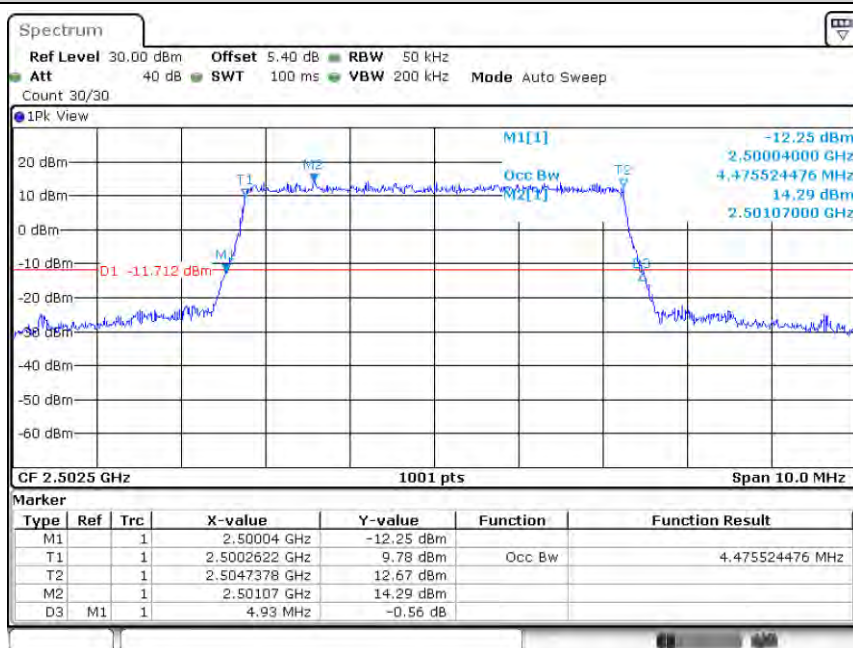
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Band7-5MHz-QPSK-21425-25RB#0-4.476



Date: 14 APR 2021 22:55:20

Band7-5MHz-16QAM-20775-25RB#0-4.476

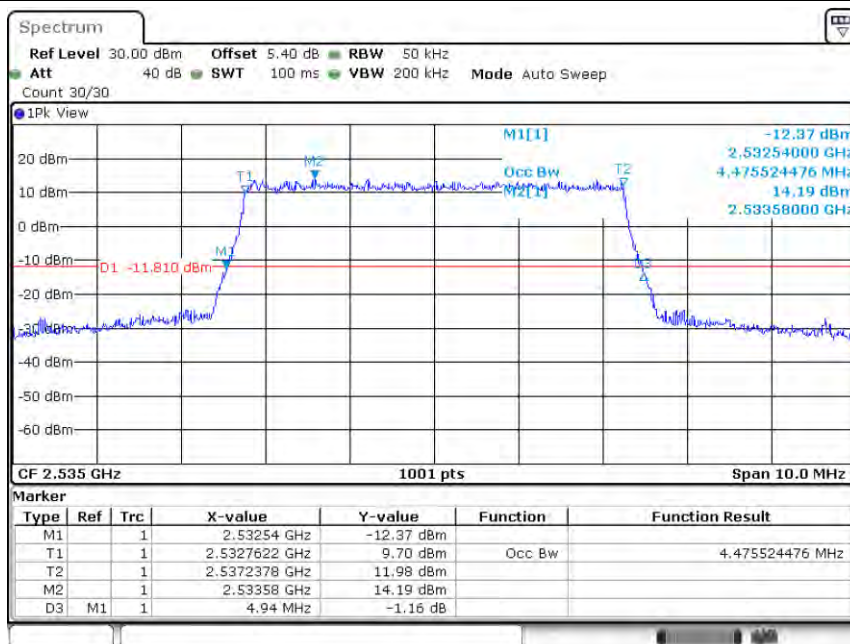


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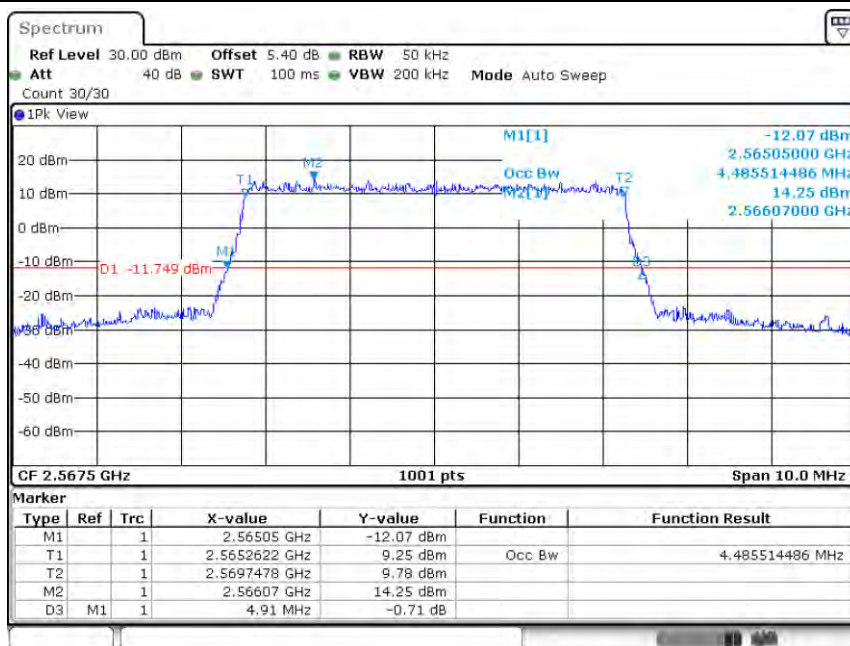


Band7-5MHz-16QAM-21100-25RB#0-4.476



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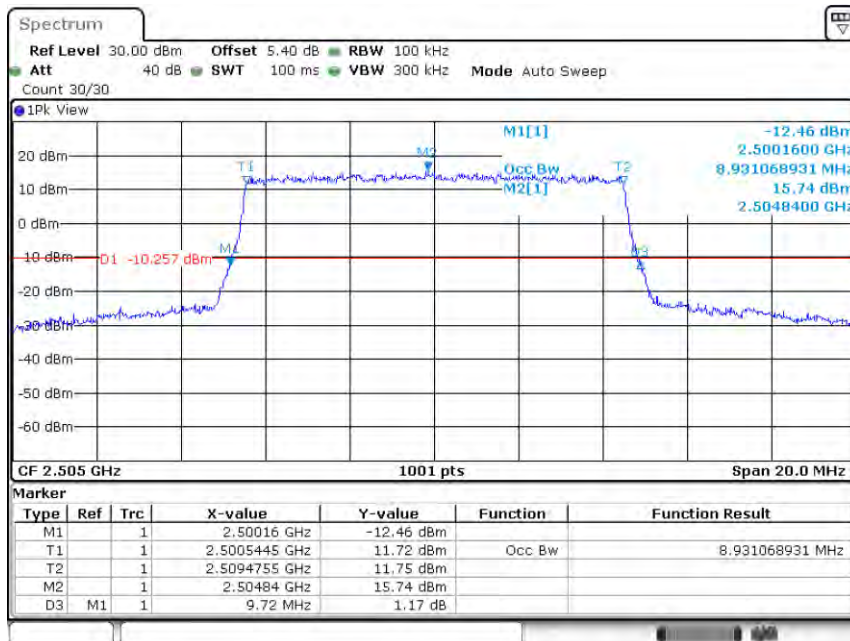


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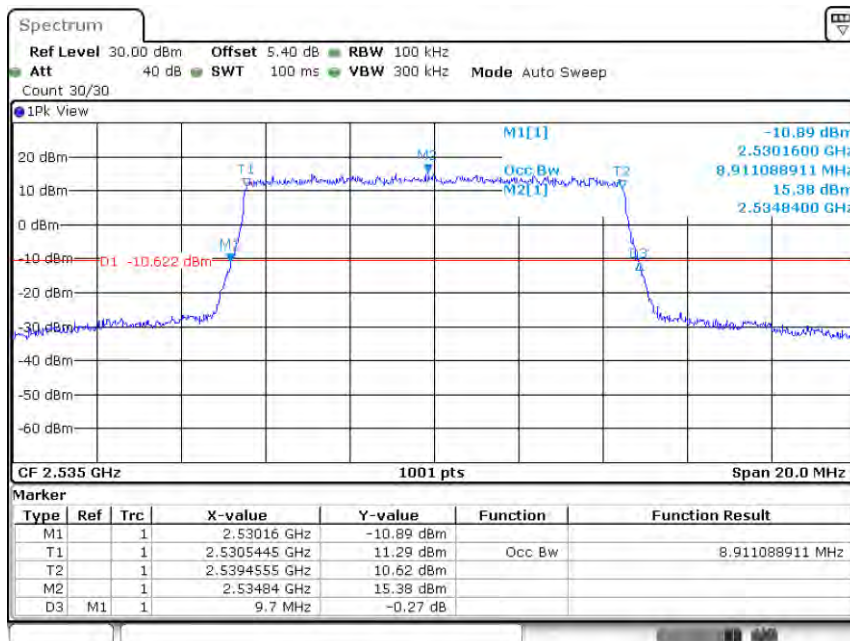


Band7-10MHz-QPSK-20800-50RB#0-8.931



Date: 14.APR.2021 22:55:52

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



Date: 14.APR.2021 22:56:17

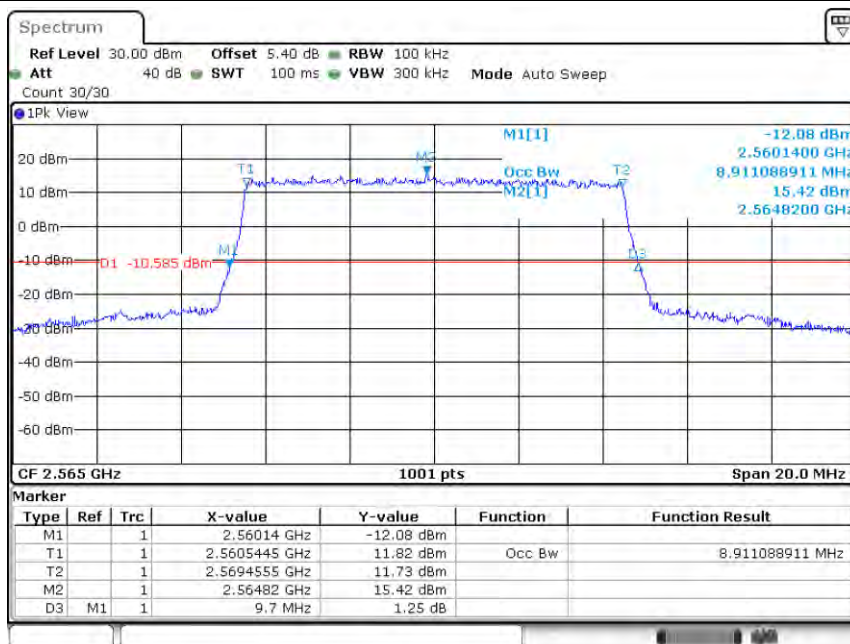


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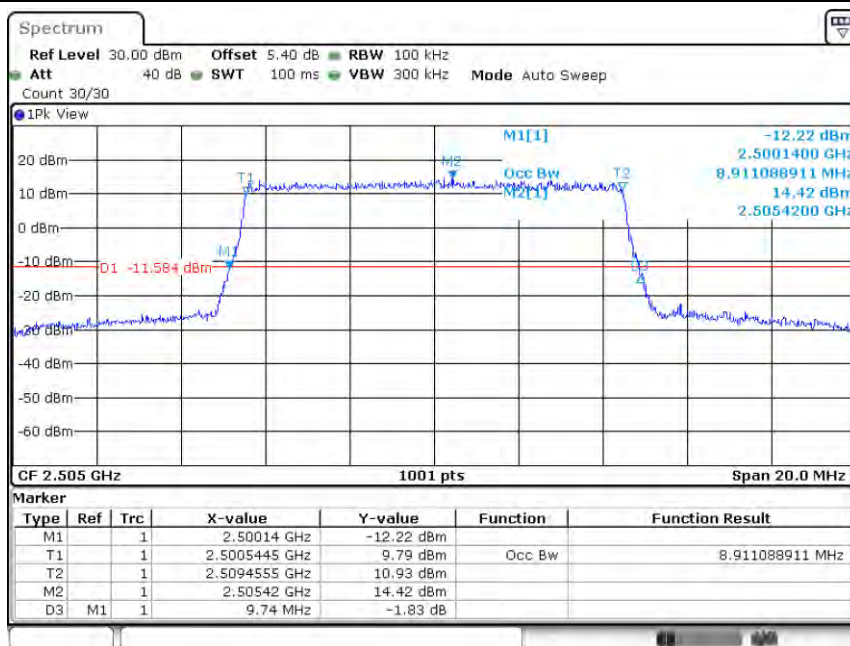


Band7-10MHz-QPSK-21400-50RB#0-8.911



Date: 14 APR 2021 22:56:43

Band7-10MHz-16QAM-20800-50RB#0-8.911



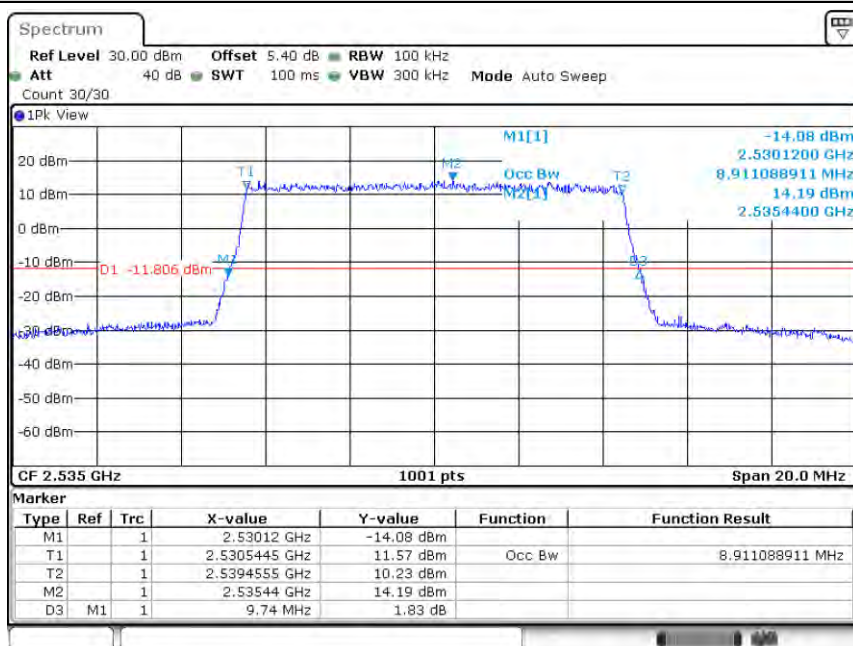
Date: 14 APR 2021 22:56:04



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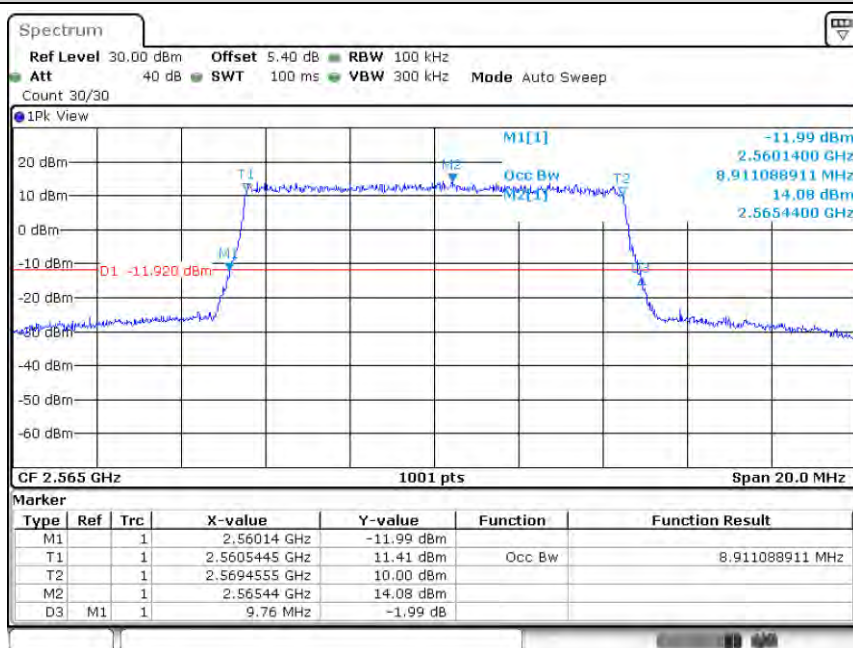
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Band7-10MHz-16QAM-21100-50RB#0-8.911



Date: 14 APR 2021 22:56:30

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

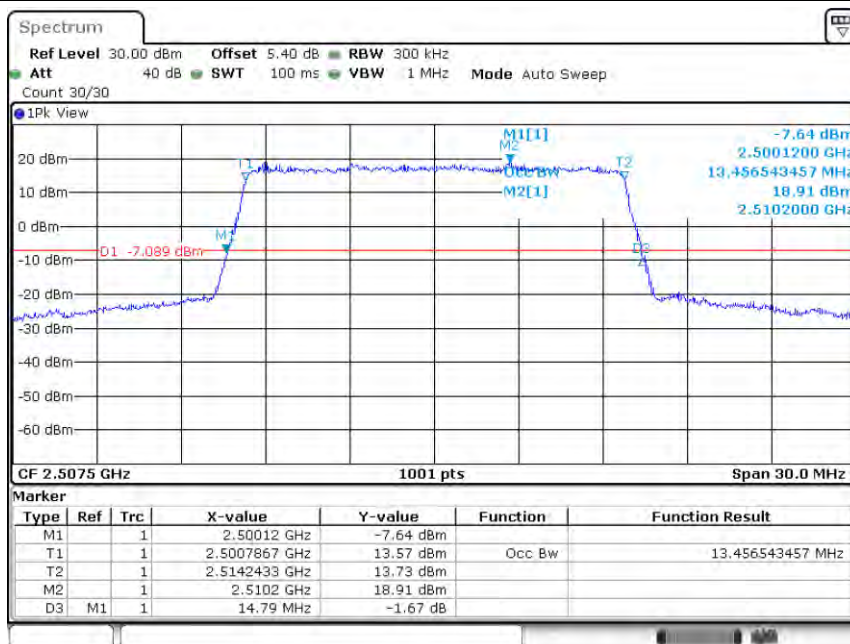


Date: 14 APR 2021 22:56:56



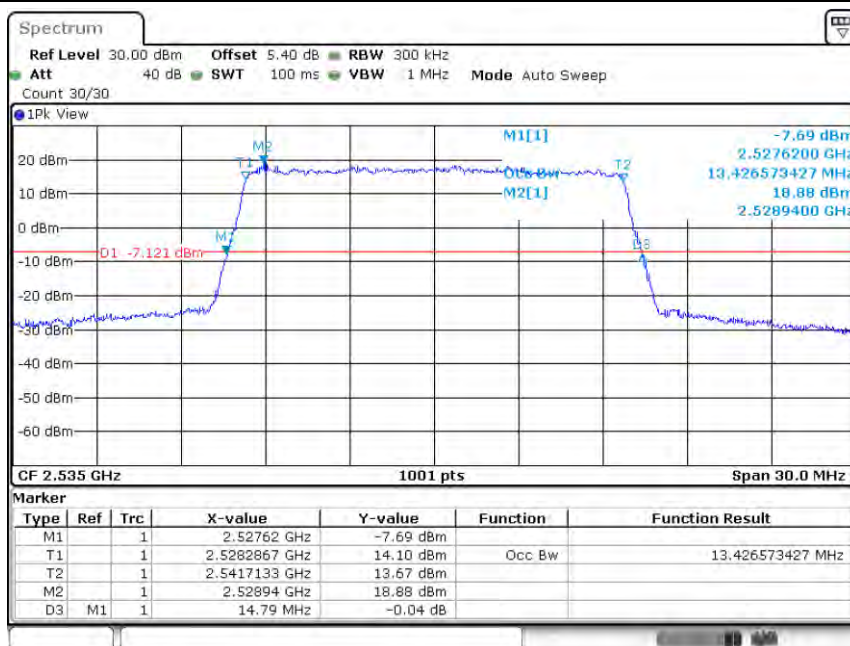


Band7-15MHz-QPSK-20825-75RB#0-13.457



Date: 14.APR.2021 22:57:14

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



Date: 14.APR.2021 22:57:40

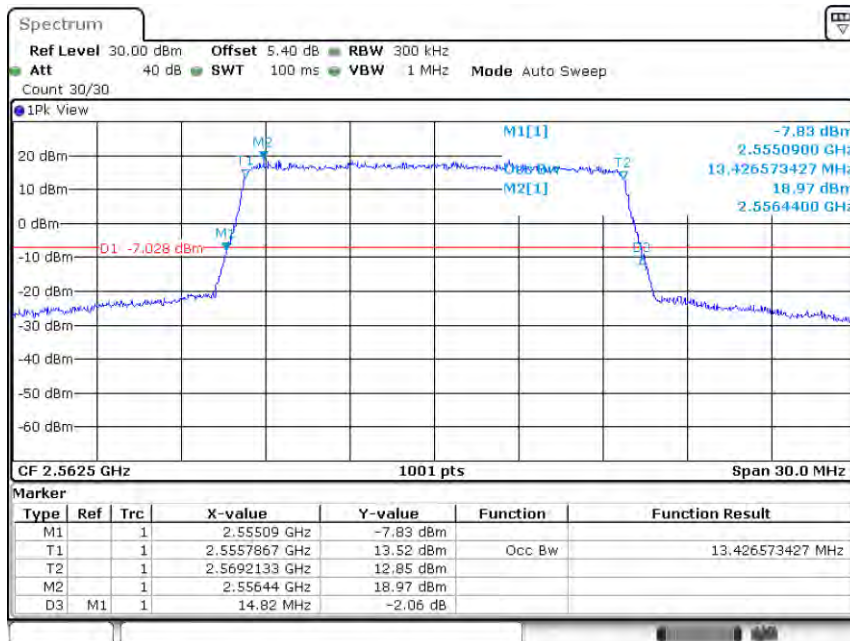


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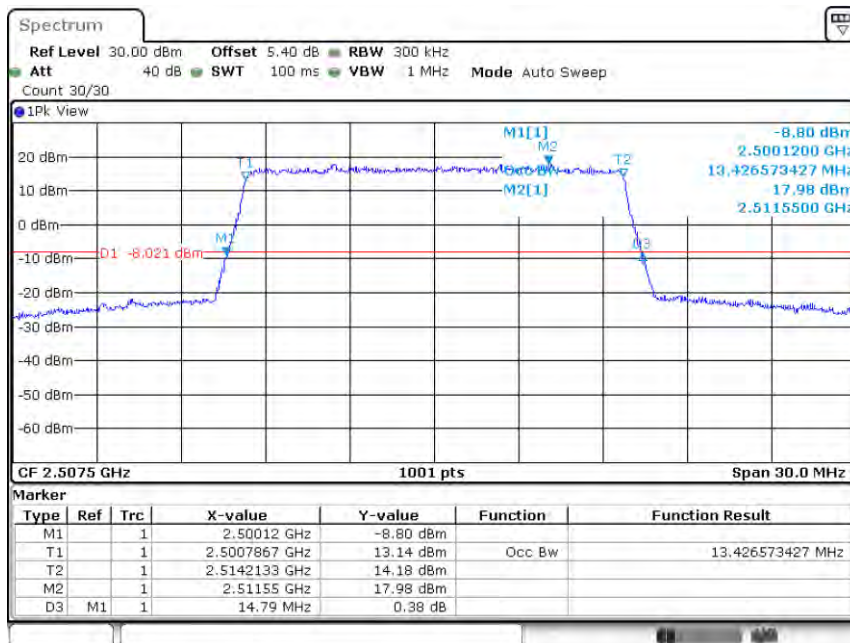


Band7-15MHz-QPSK-21375-75RB#0-13.427



Date: 14 APR 2021 22:58:06

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



Date: 14 APR 2021 22:57:27

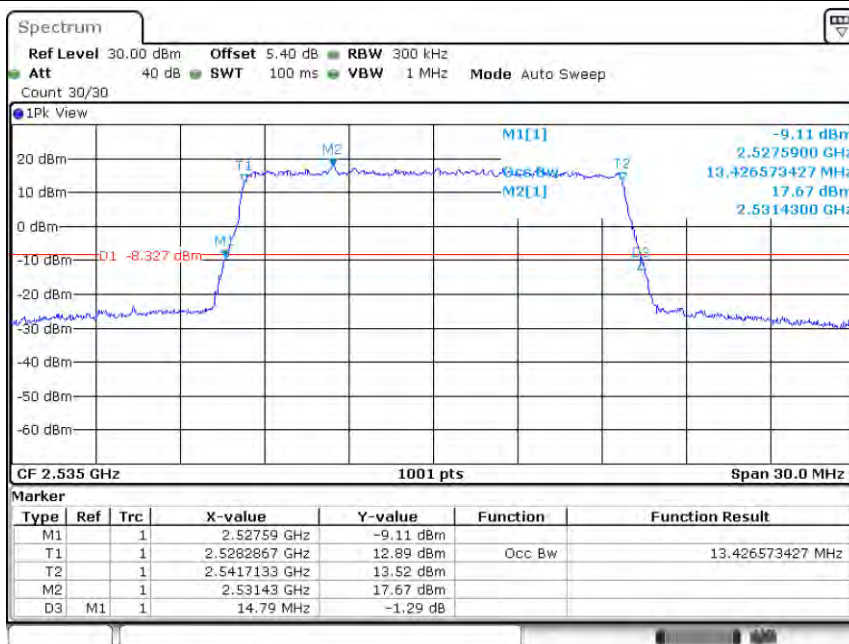


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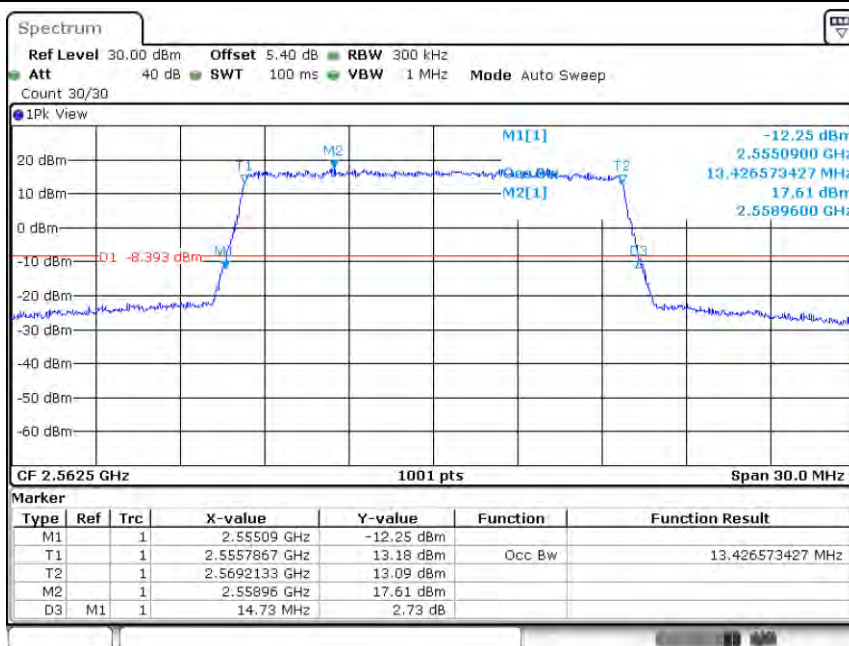


Band7-15MHz-16QAM-21100-75RB#0-13.427



Date: 14 APR 2021 22:57:53

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



Date: 14 APR 2021 22:58:19

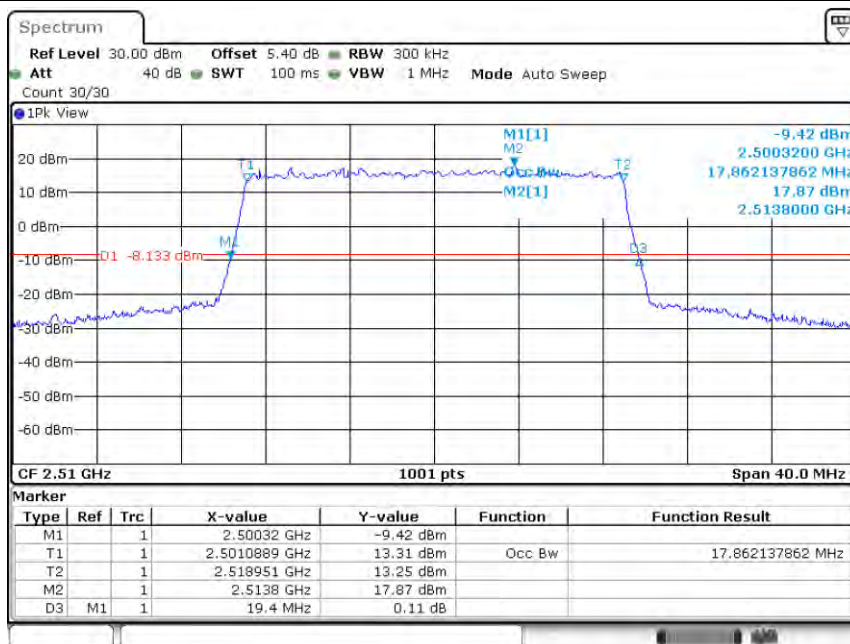


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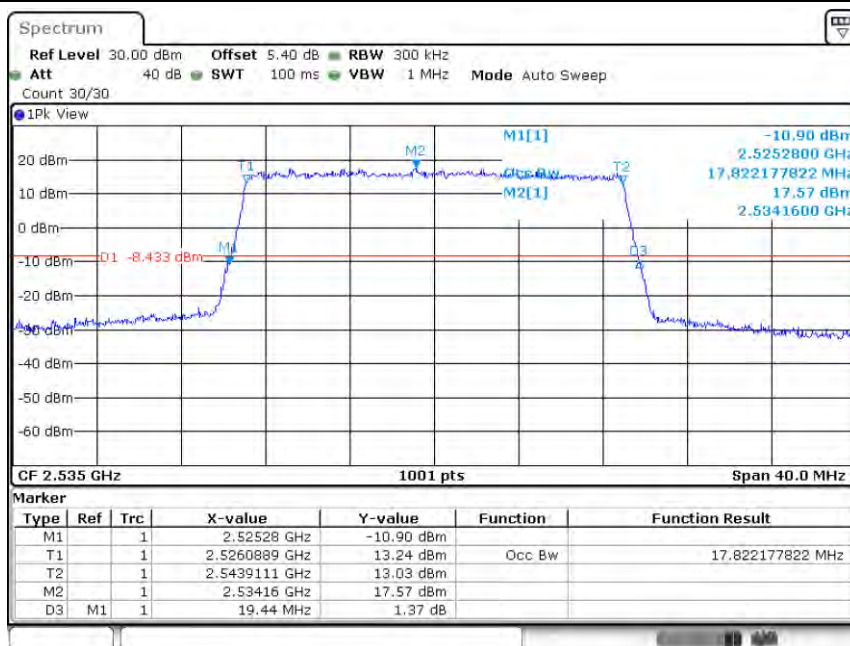


Band7-20MHz-QPSK-20850-100RB#0-17.862



Date: 14 APR 2021 22:58:37

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



Date: 14 APR 2021 22:59:03

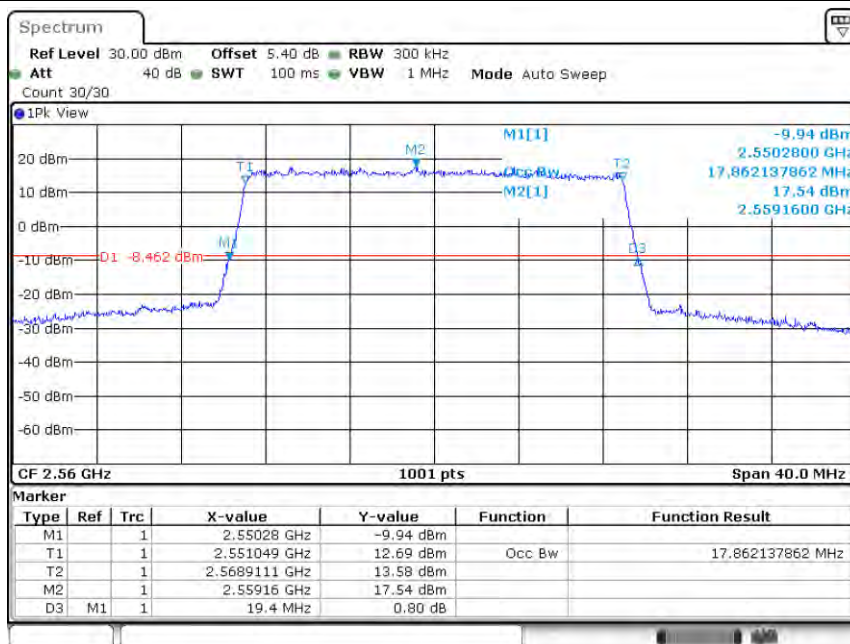


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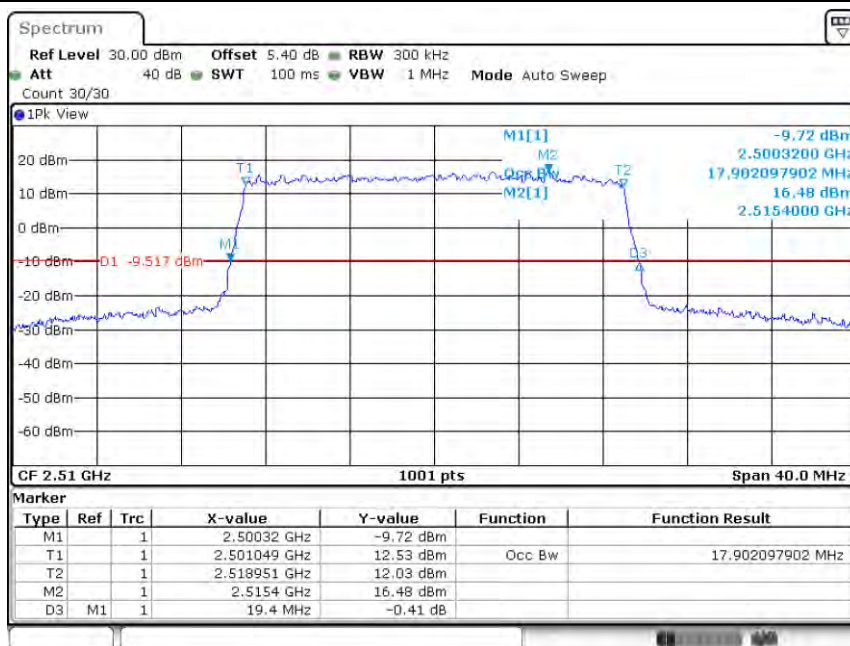


Band7-20MHz-QPSK-21350-100RB#0-17.862



Date: 14 APR 2021 22:59:29

Band7-20MHz-16QAM-20850-100RB#0-17.902



Date: 14 APR 2021 22:58:50



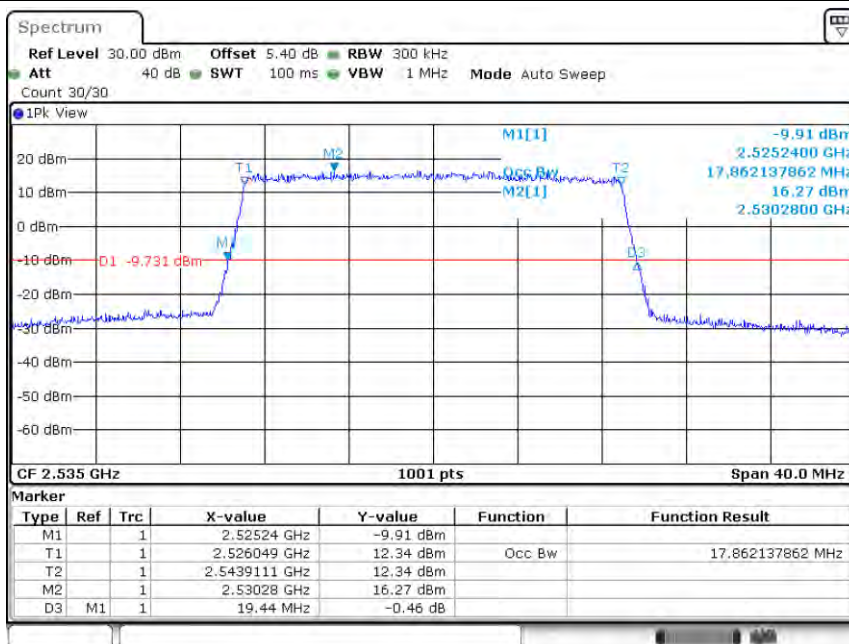
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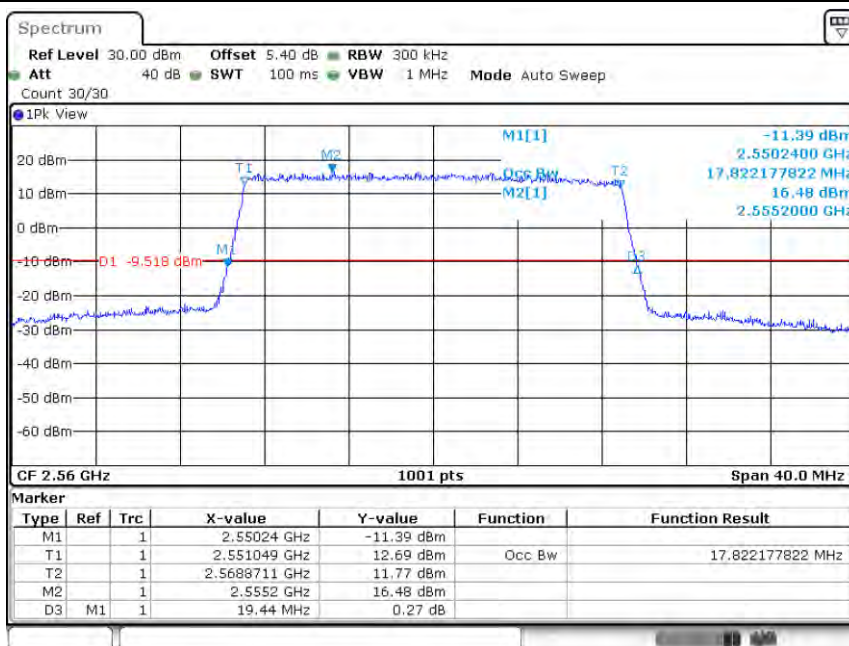


Band7-20MHz-16QAM-21100-100RB#0-17.862



Date: 14 APR 2021 22:59:16

Band7-20MHz-16QAM-21350-100RB#0-17.822



Date: 14 APR 2021 22:59:42



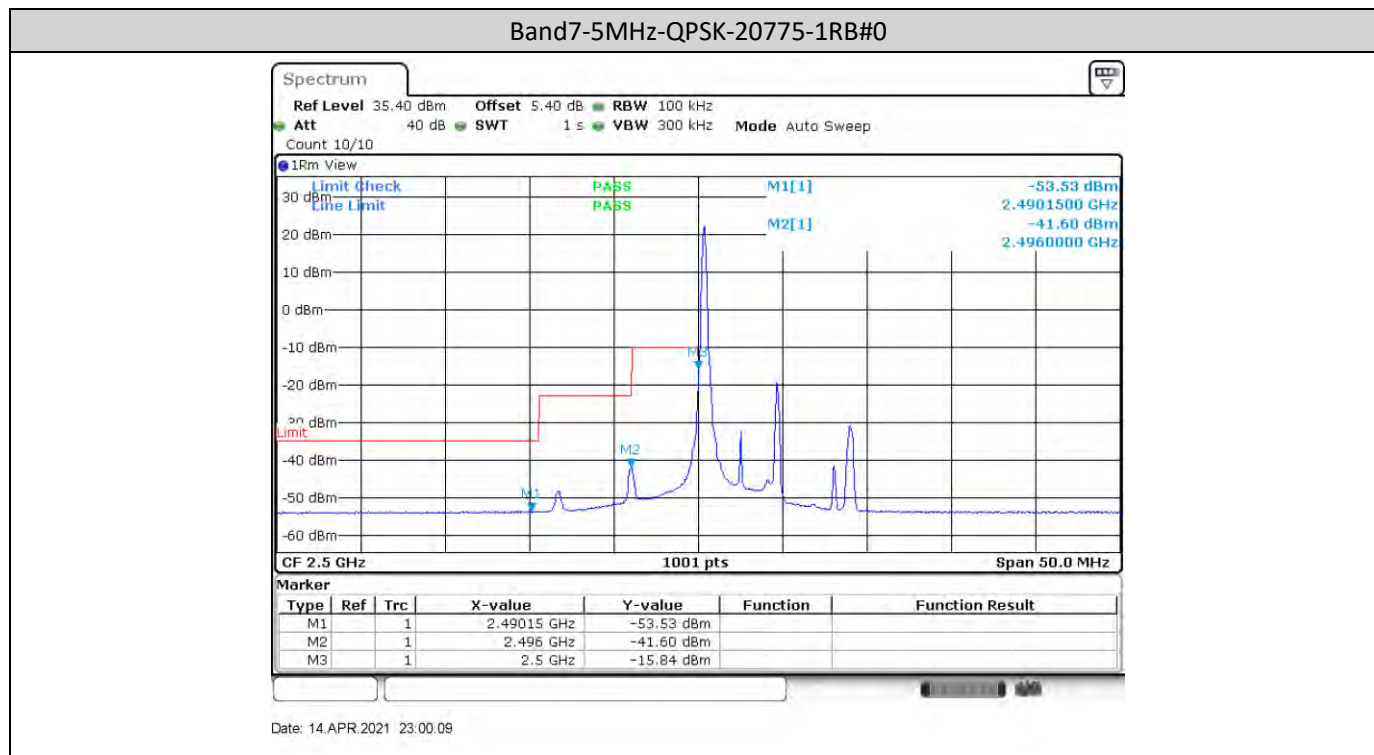
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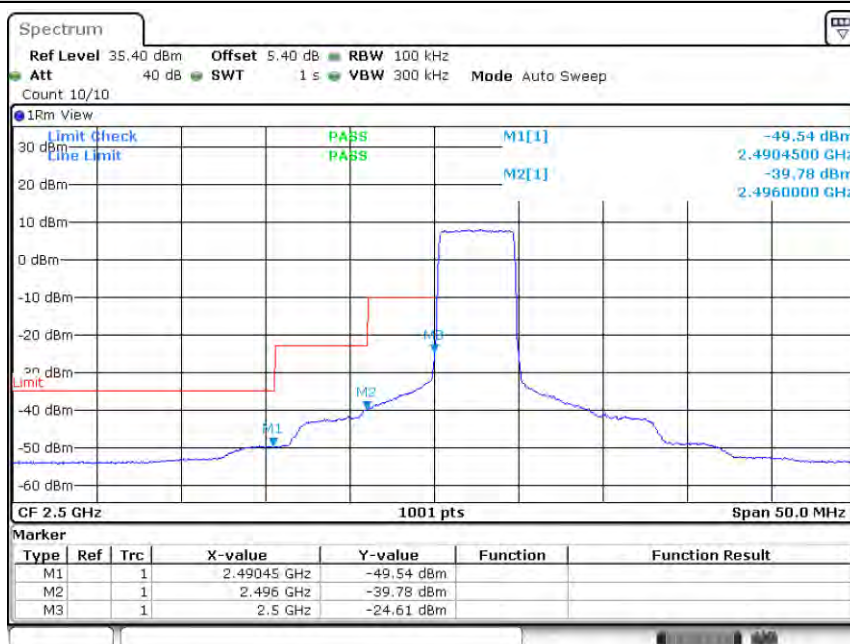


5. Band Edge Compliance

5.1. Test Plots

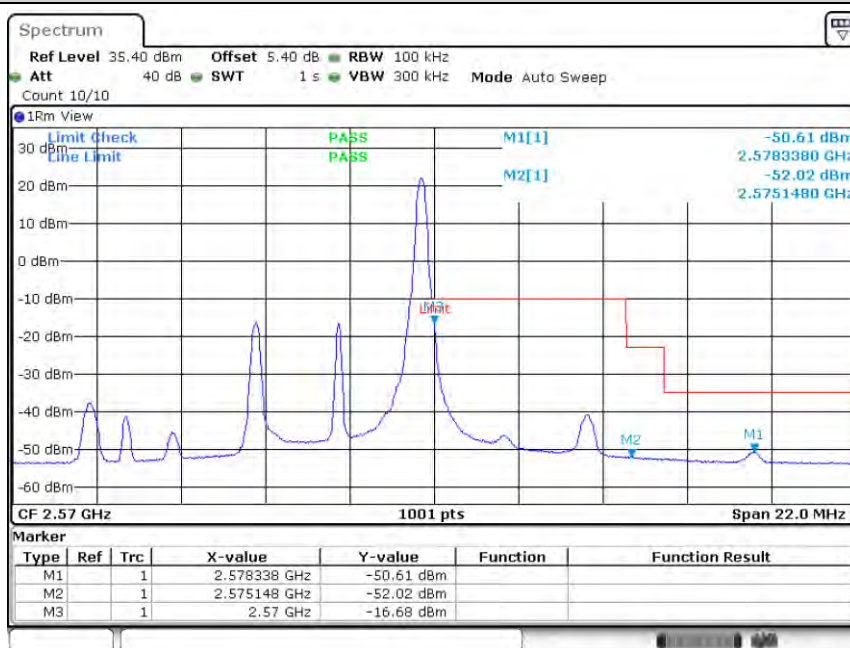


Band7-5MHz-QPSK-20775-25RB#0



Date: 14 APR 2021 23:01:43

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



Date: 14 APR 2021 23:00:56

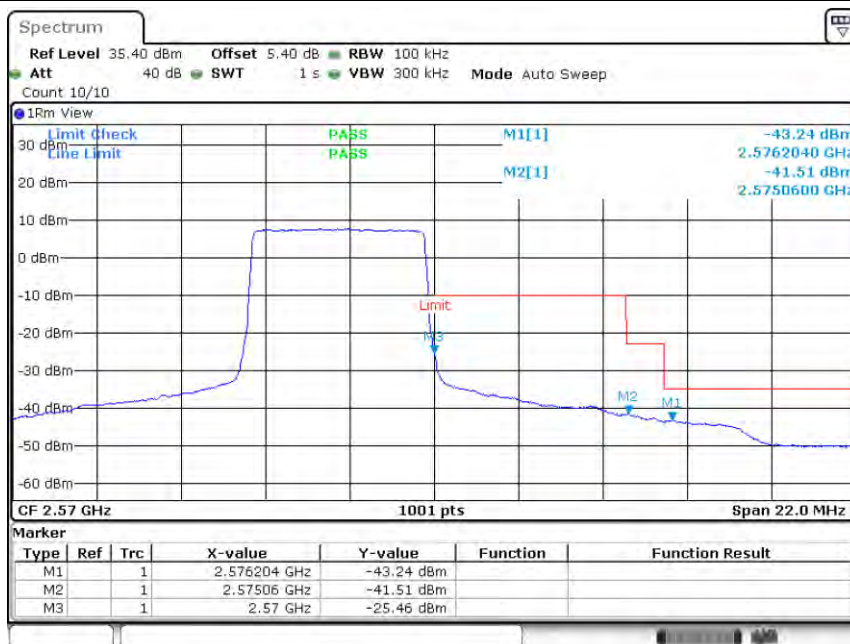


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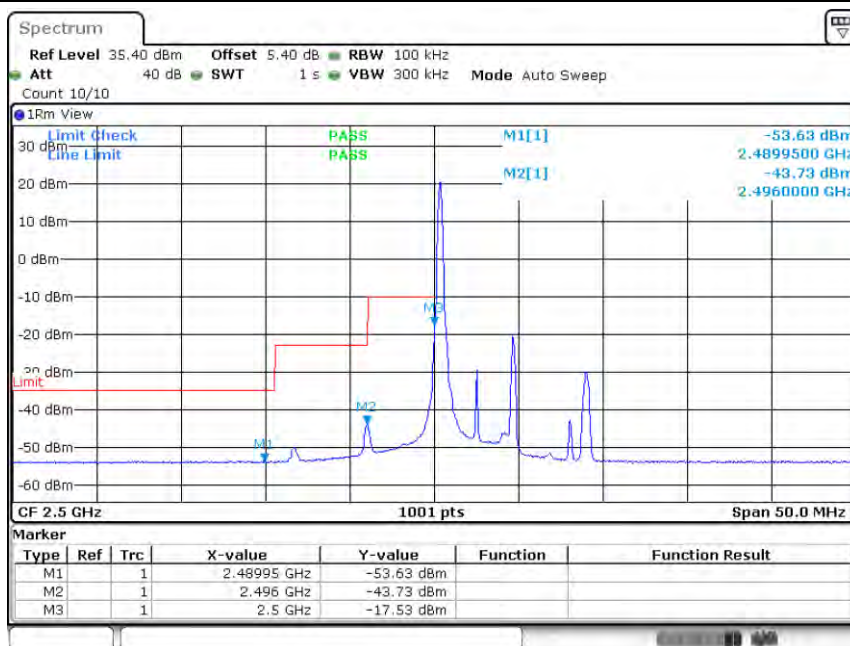


Band7-5MHz-QPSK-21425-25RB#0



Date: 14 APR 2021 23:02:26

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

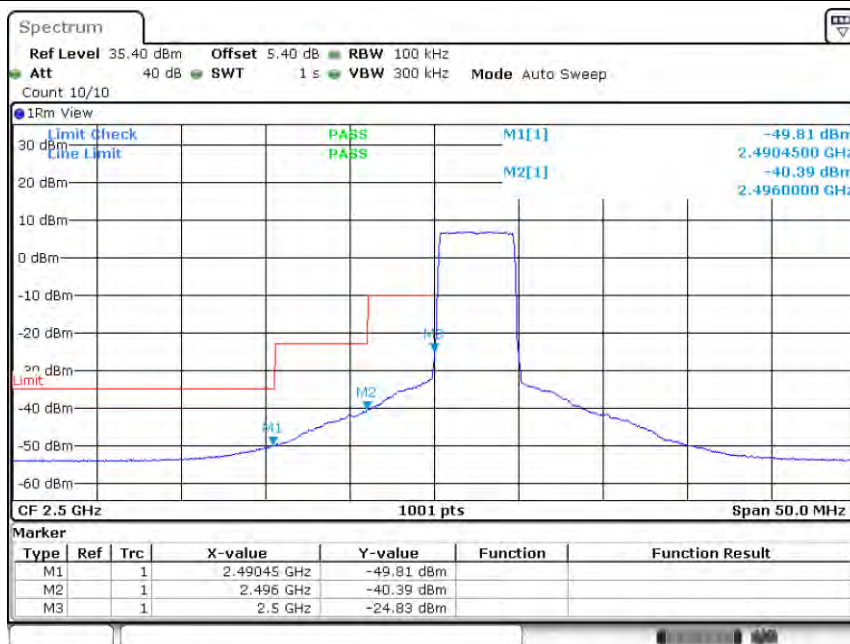


Date: 14 APR 2021 23:00:30



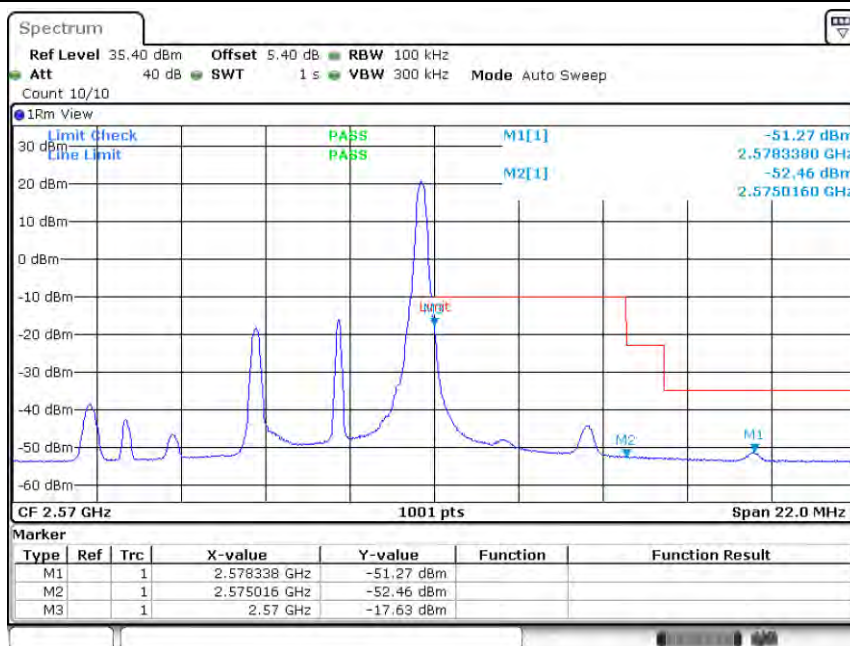


Band7-5MHz-16QAM-20775-25RB#0



Date: 14 APR 2021 23:02:04

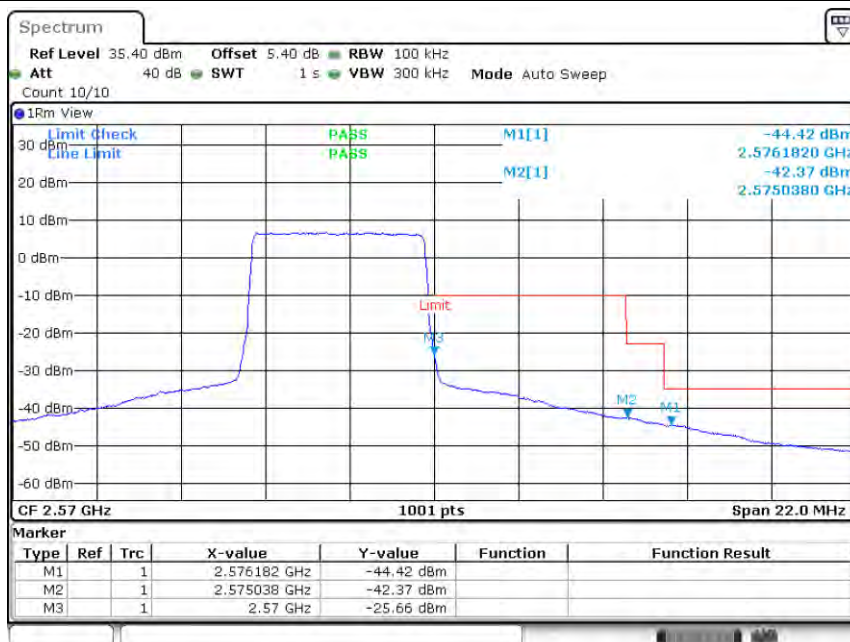
Band7-5MHz-16QAM-21425-1RB#24



Date: 14 APR 2021 23:01:17

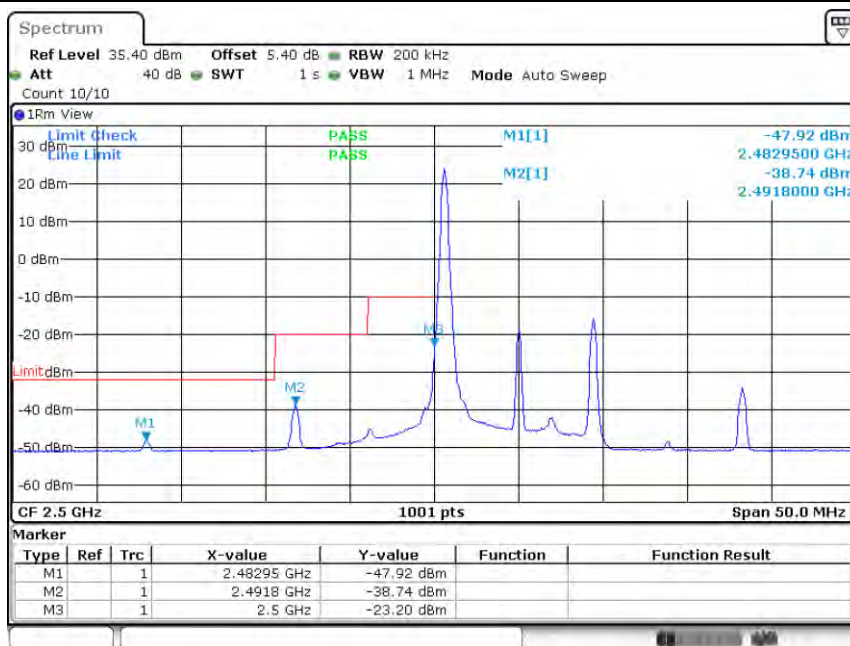


Band7-5MHz-16QAM-21425-25RB#0



Date: 14 APR 2021 23:02:47

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



Date: 14 APR 2021 23:03:14

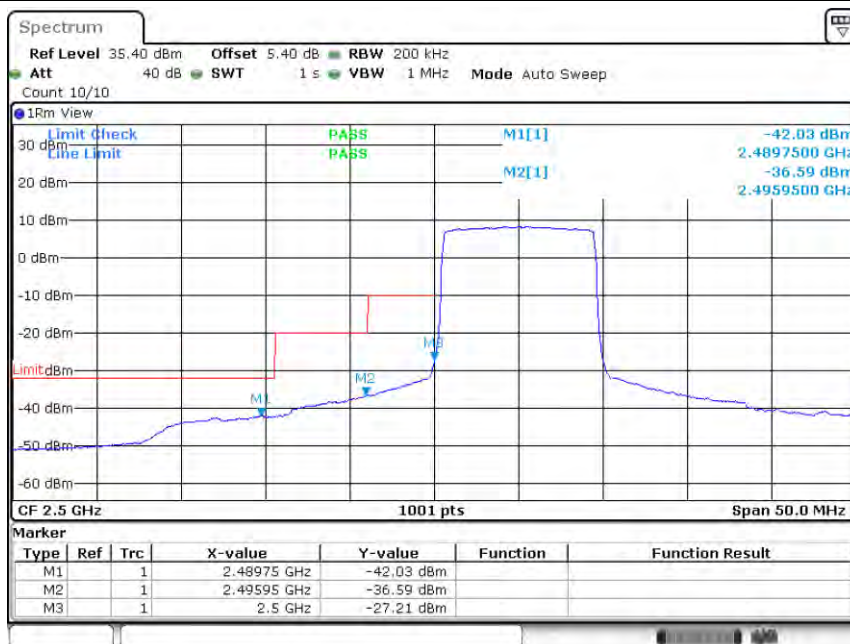


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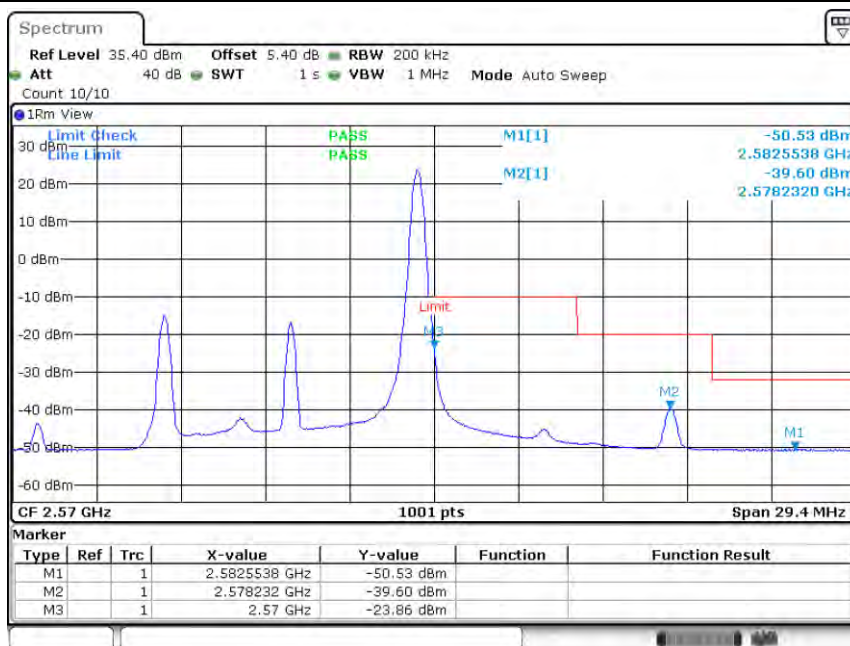


Band7-10MHz-QPSK-20800-50RB#0



Date: 14 APR 2021 23:04:51

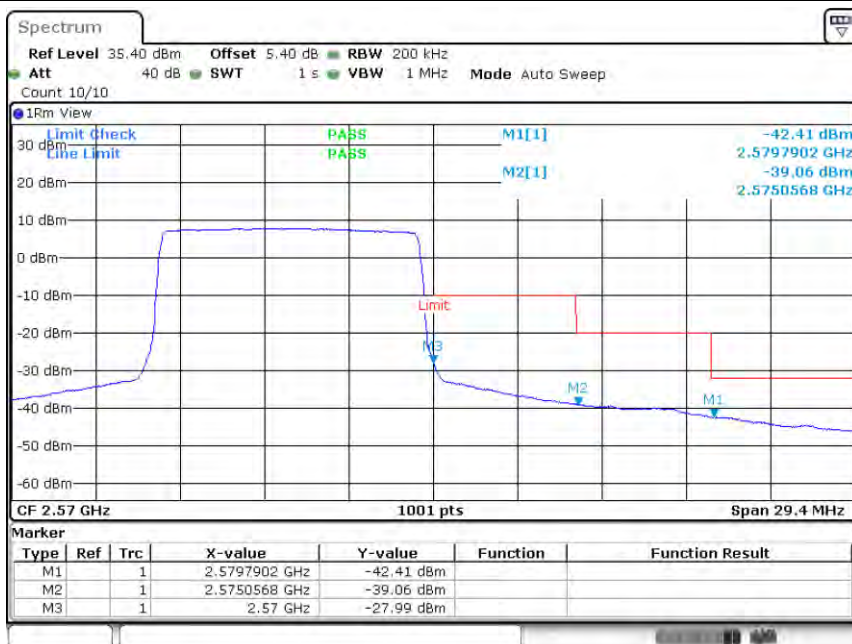
Band7-10MHz-QPSK-21400-1RB#49



Date: 14 APR 2021 23:04:01

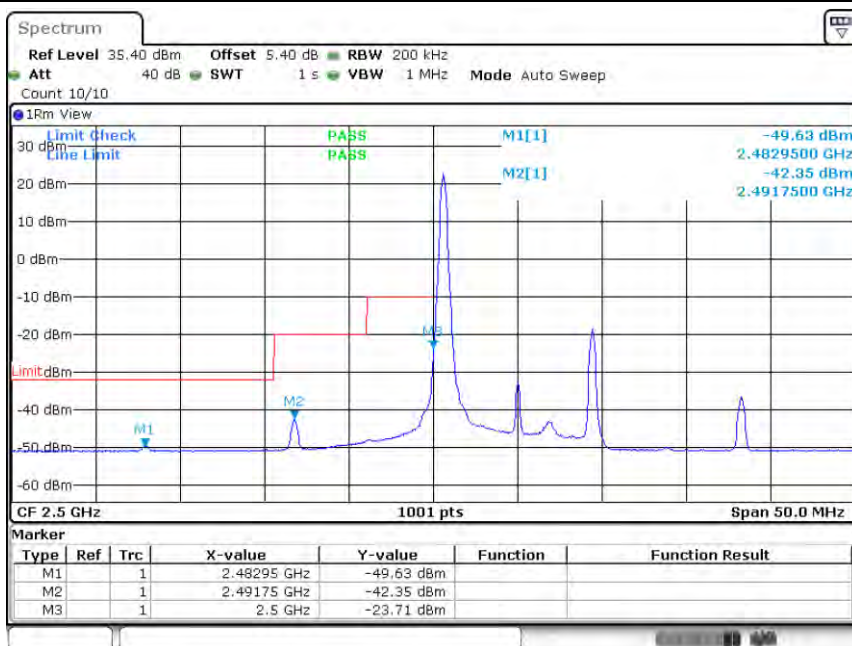


Band7-10MHz-QPSK-21400-50RB#0



Date: 14 APR 2021 23:05:34

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



Date: 14 APR 2021 23:03:35



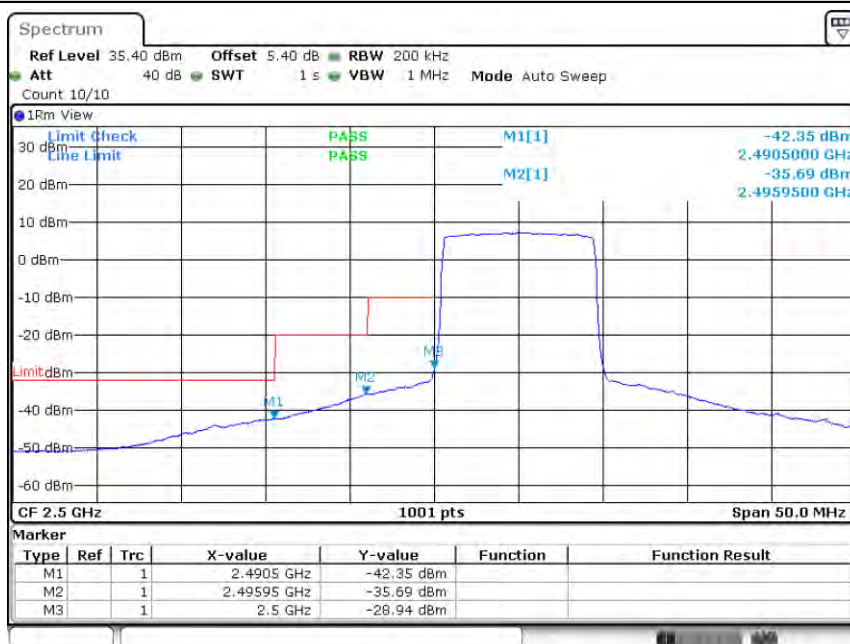
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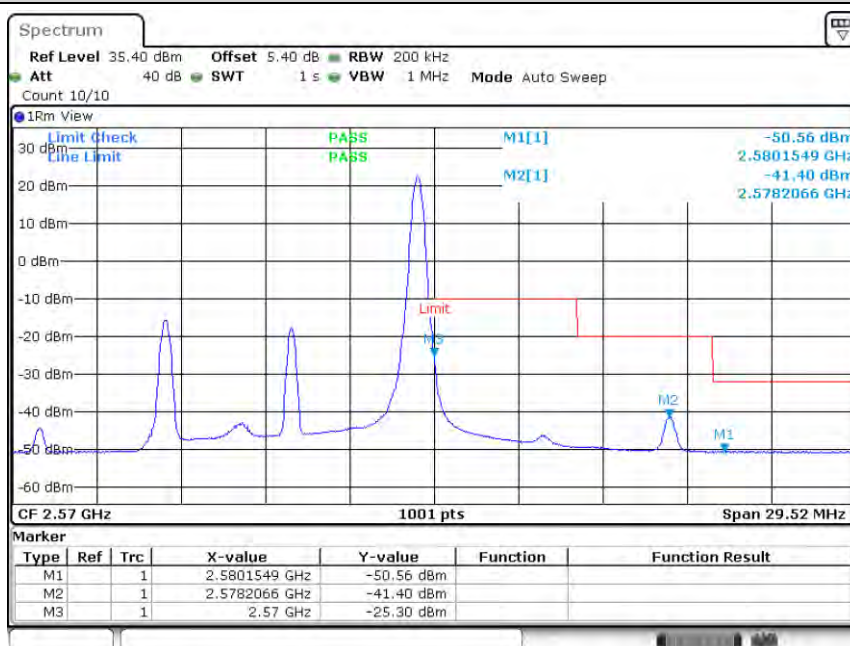


Band7-10MHz-16QAM-20800-50RB#0



Date: 14 APR 2021 23:05:13

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

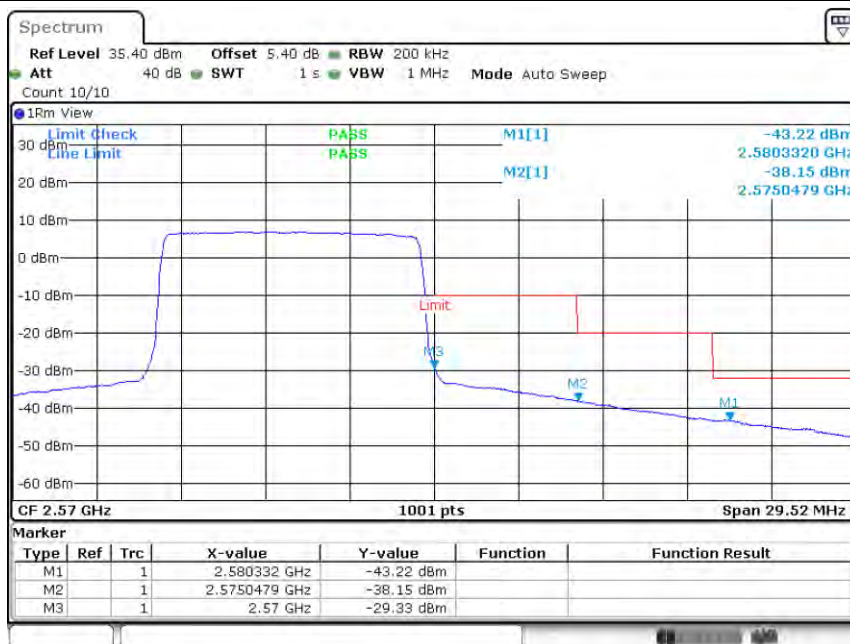


Date: 14 APR 2021 23:04:22



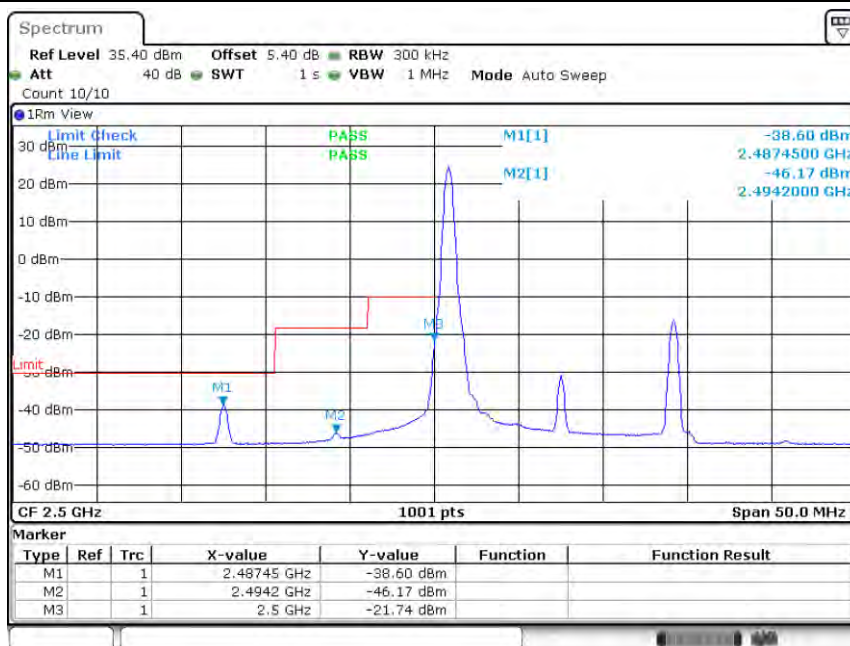


Band7-10MHz-16QAM-21400-50RB#0



Date: 14 APR 2021 23:05:56

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



Date: 14 APR 2021 23:06:23

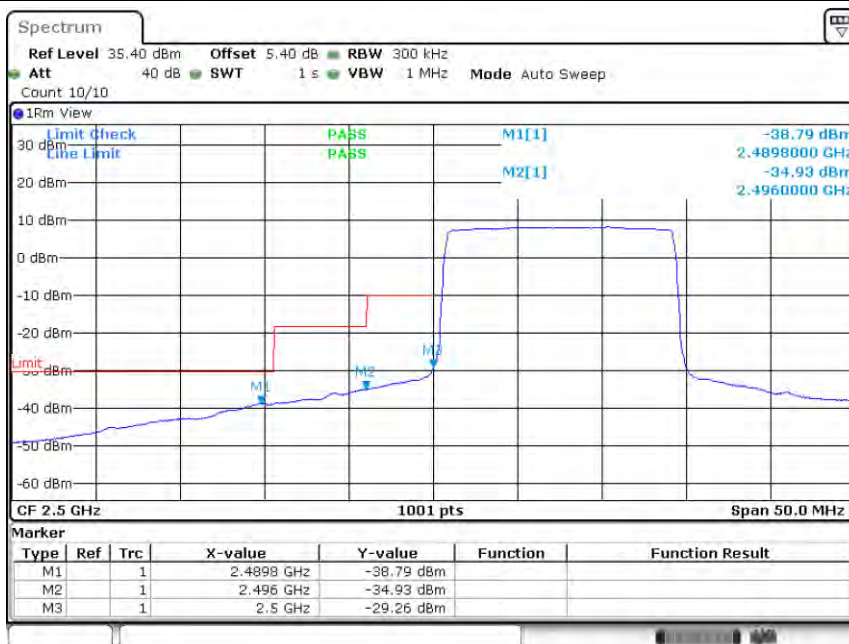


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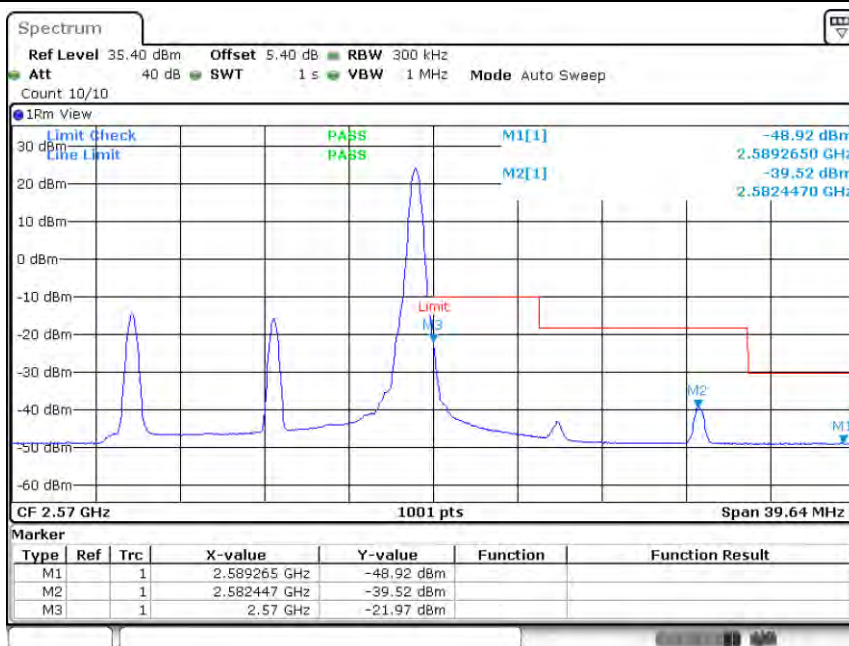
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Band7-15MHz-QPSK-20825-75RB#0



Date: 14 APR 2021 23:07:58

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

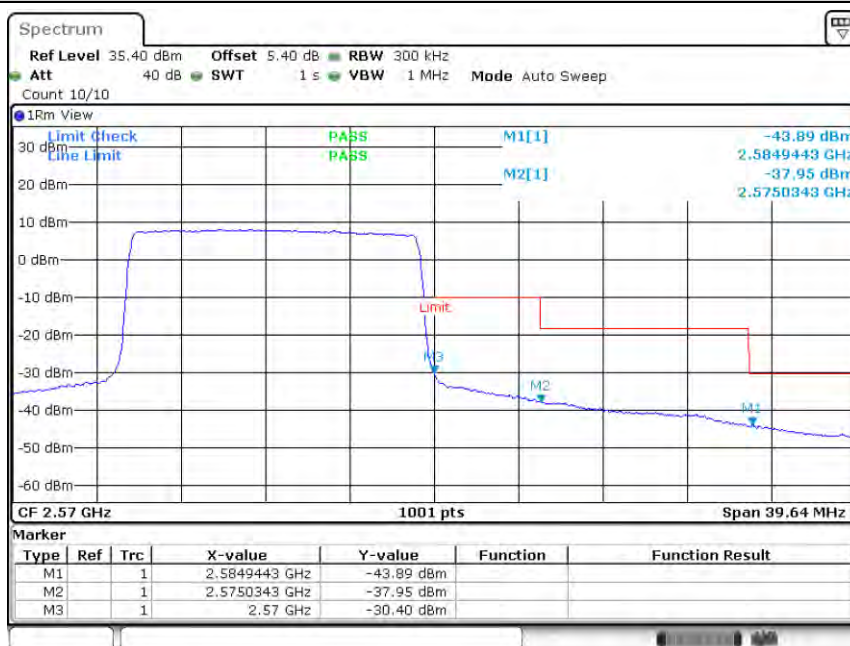


Date: 14 APR 2021 23:07:11



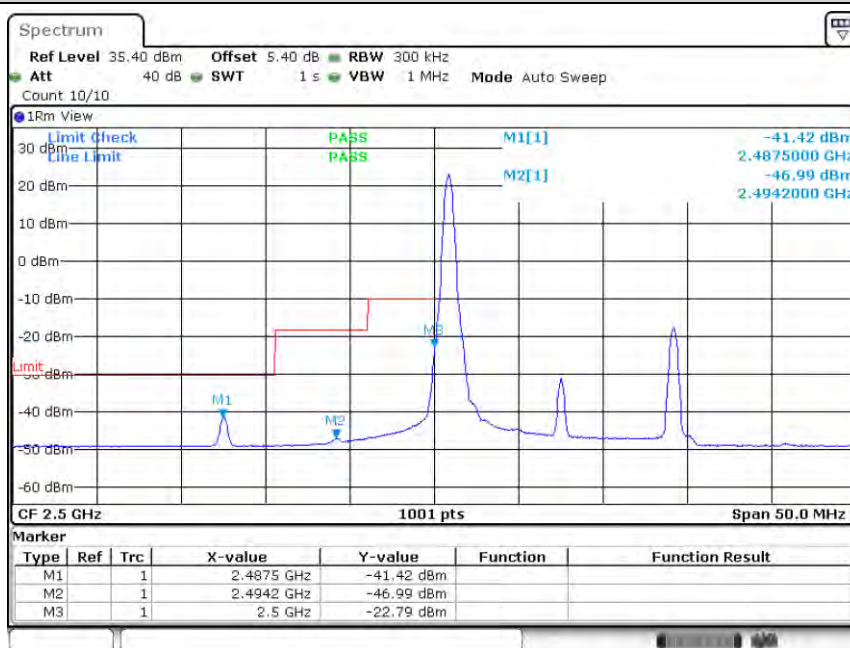


Band7-15MHz-QPSK-21375-75RB#0



Date: 14 APR 2021 23:08:41

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

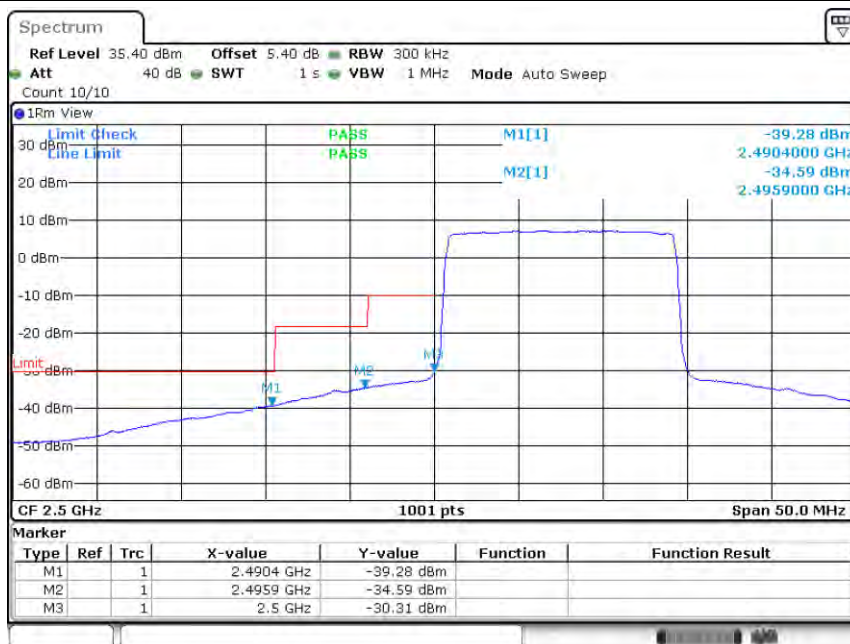


Date: 14 APR 2021 23:06:45



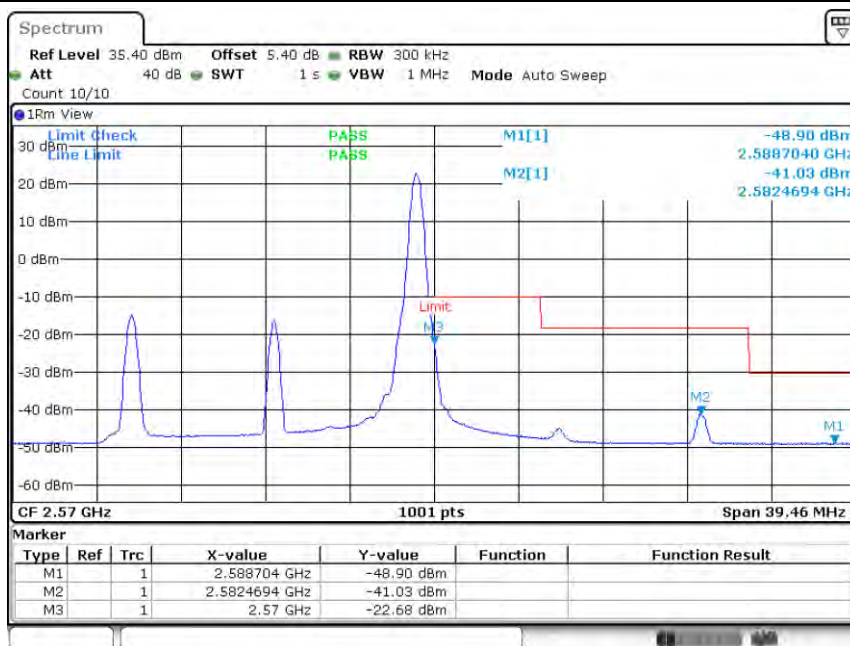


Band7-15MHz-16QAM-20825-75RB#0



Date: 14 APR 2021 23:08:19

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



Date: 14 APR 2021 23:07:32



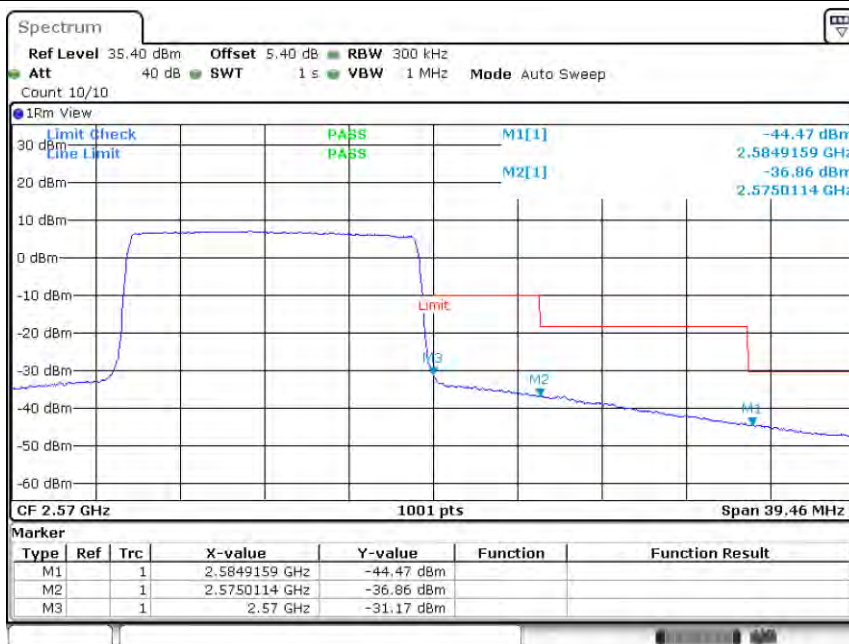
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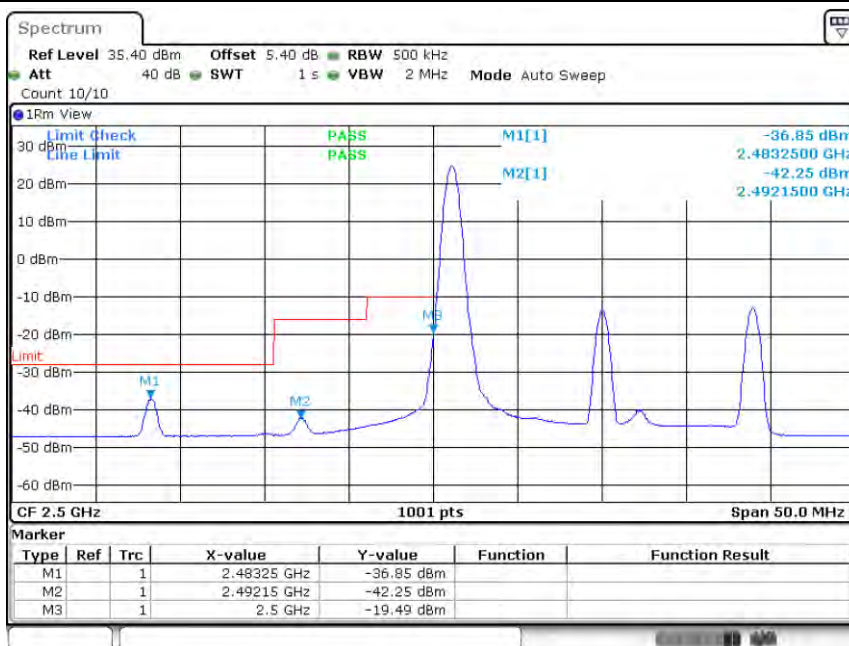


Band7-15MHz-16QAM-21375-75RB#0



Date: 14 APR 2021 23:09:02

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

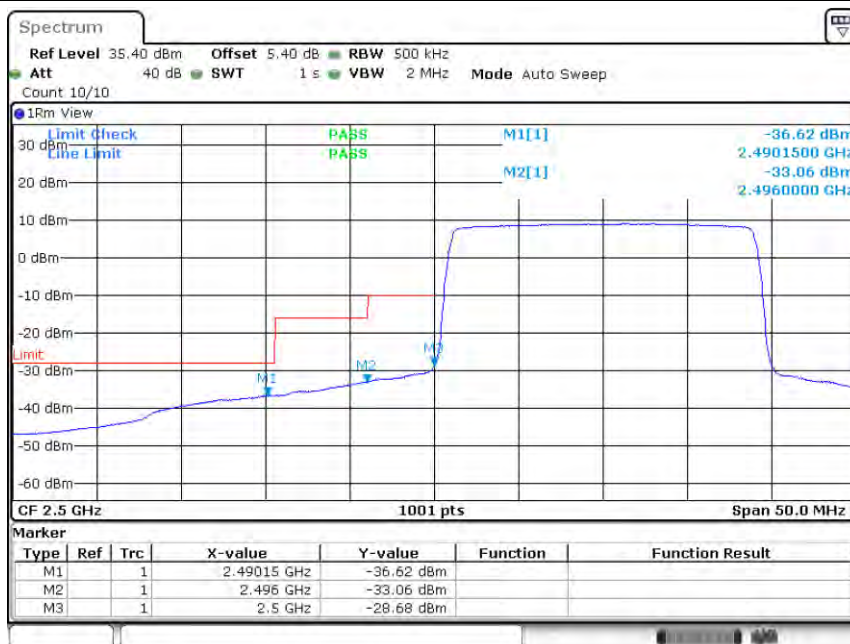


Date: 14 APR 2021 23:09:29



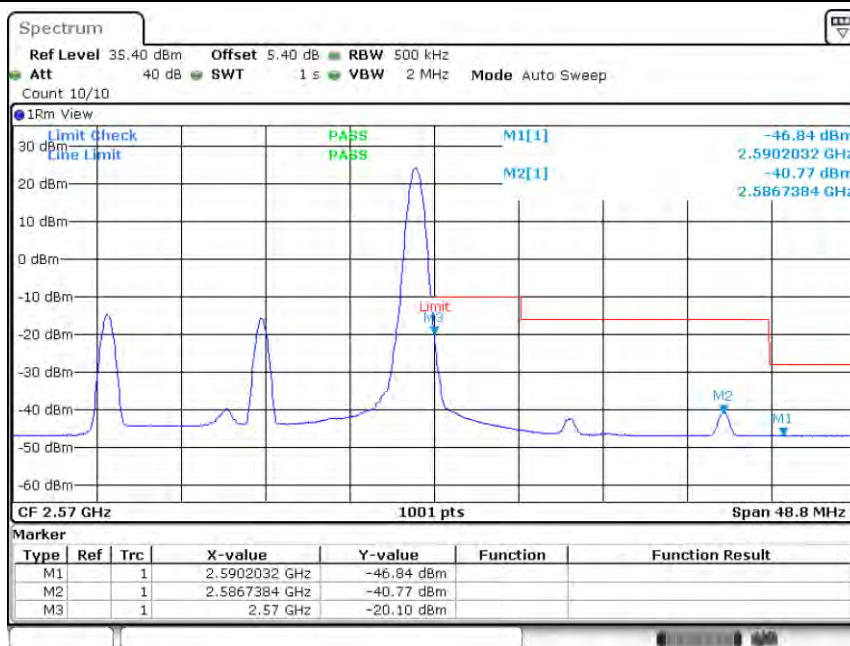


Band7-20MHz-QPSK-20850-100RB#0



Date: 14 APR 2021 23:11:04

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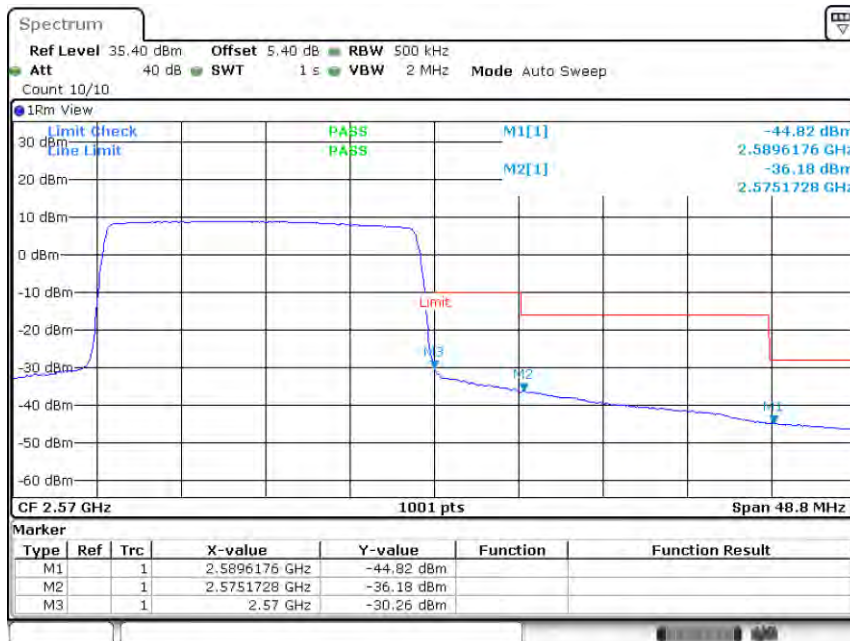


Date: 14 APR 2021 23:10:17



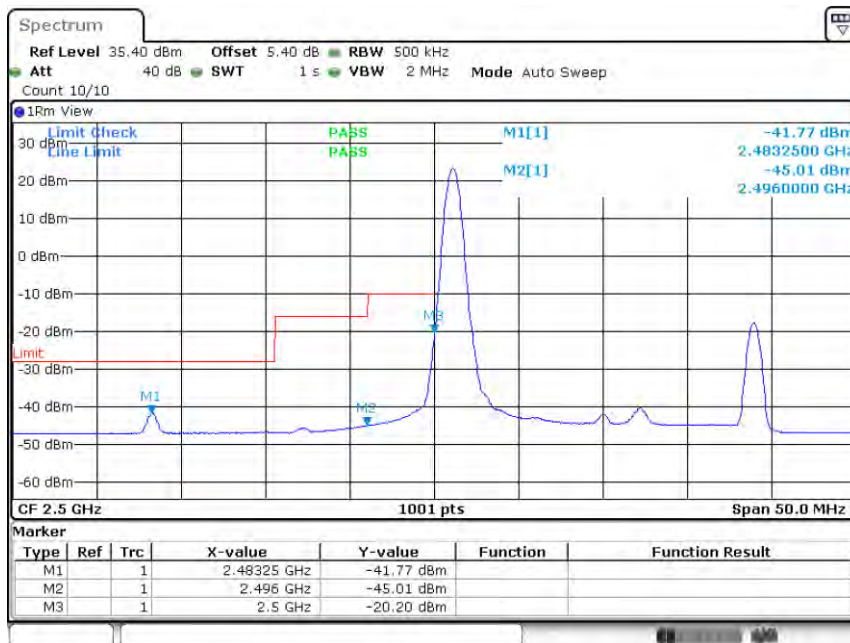


Band7-20MHz-QPSK-21350-100RB#0



Date: 14 APR 2021 23:11:47

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



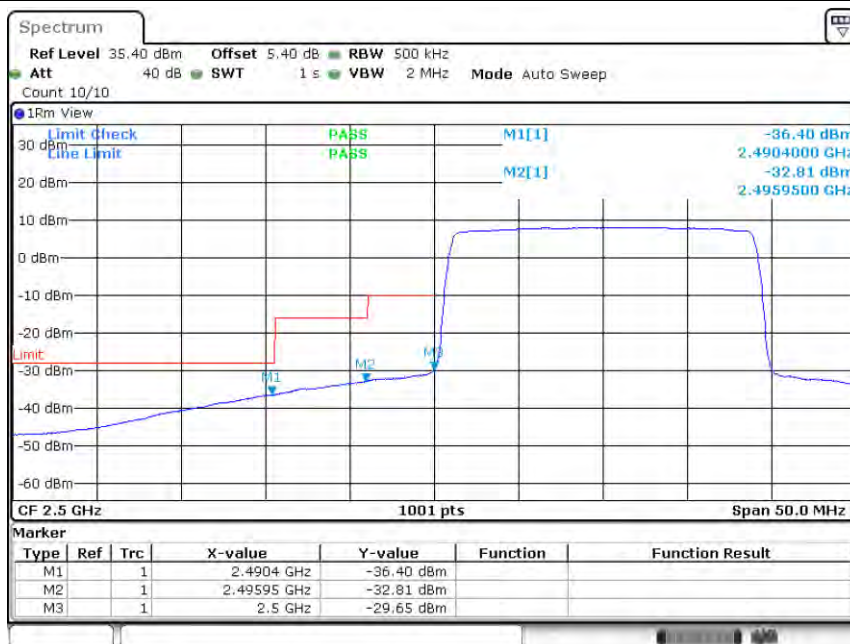
Date: 14 APR 2021 23:09:51



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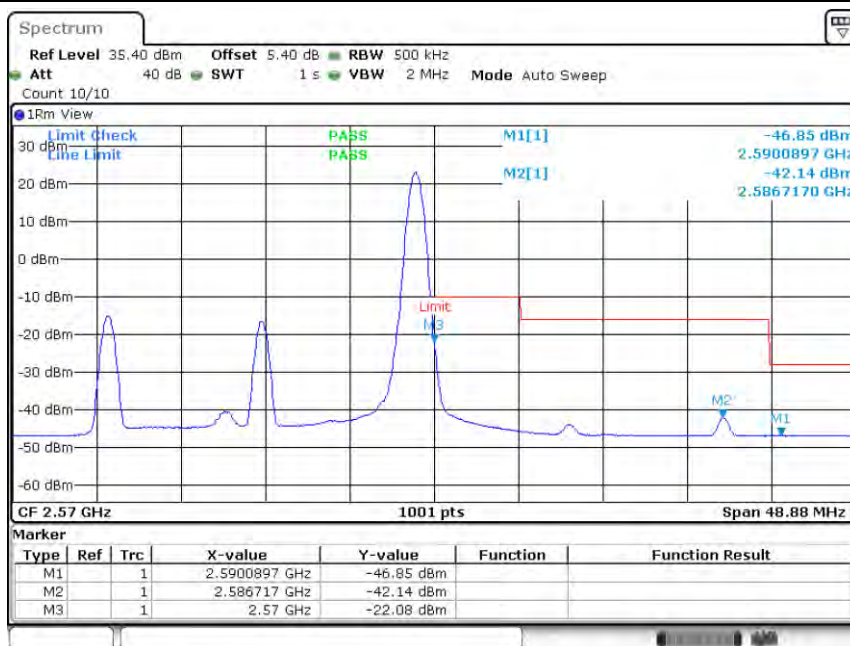
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Band7-20MHz-16QAM-20850-100RB#0



Date: 14 APR 2021 23:11:25

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



Date: 14 APR 2021 23:10:38

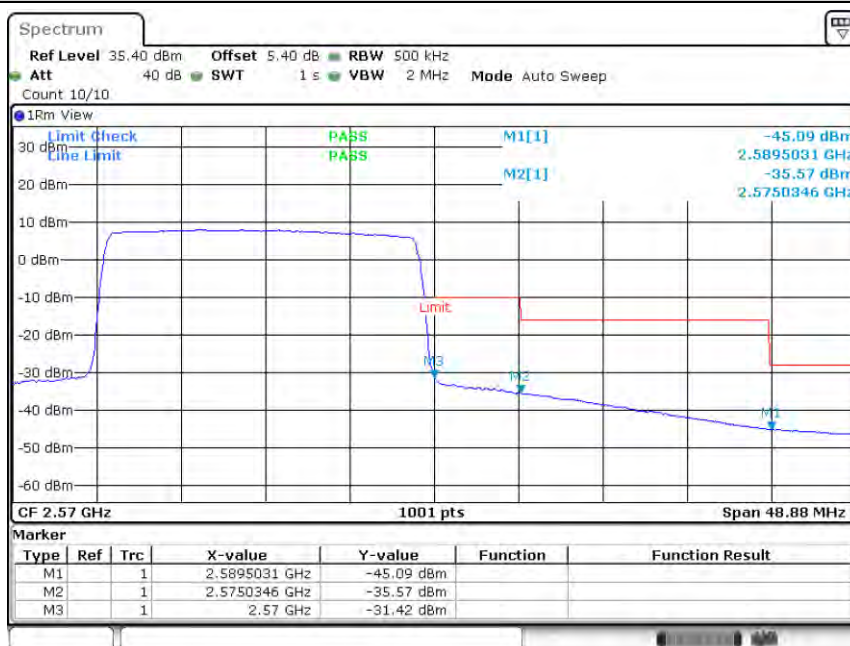


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Band7-20MHz-16QAM-21350-100RB#0



Date: 14 APR 2021 23:12:09

Remark: The limit of more than 1MHz offset the channel edge is corrected by the formula:
 $X = \text{Limit} + 10 \log(\text{RBW}/1000\text{kHz})$



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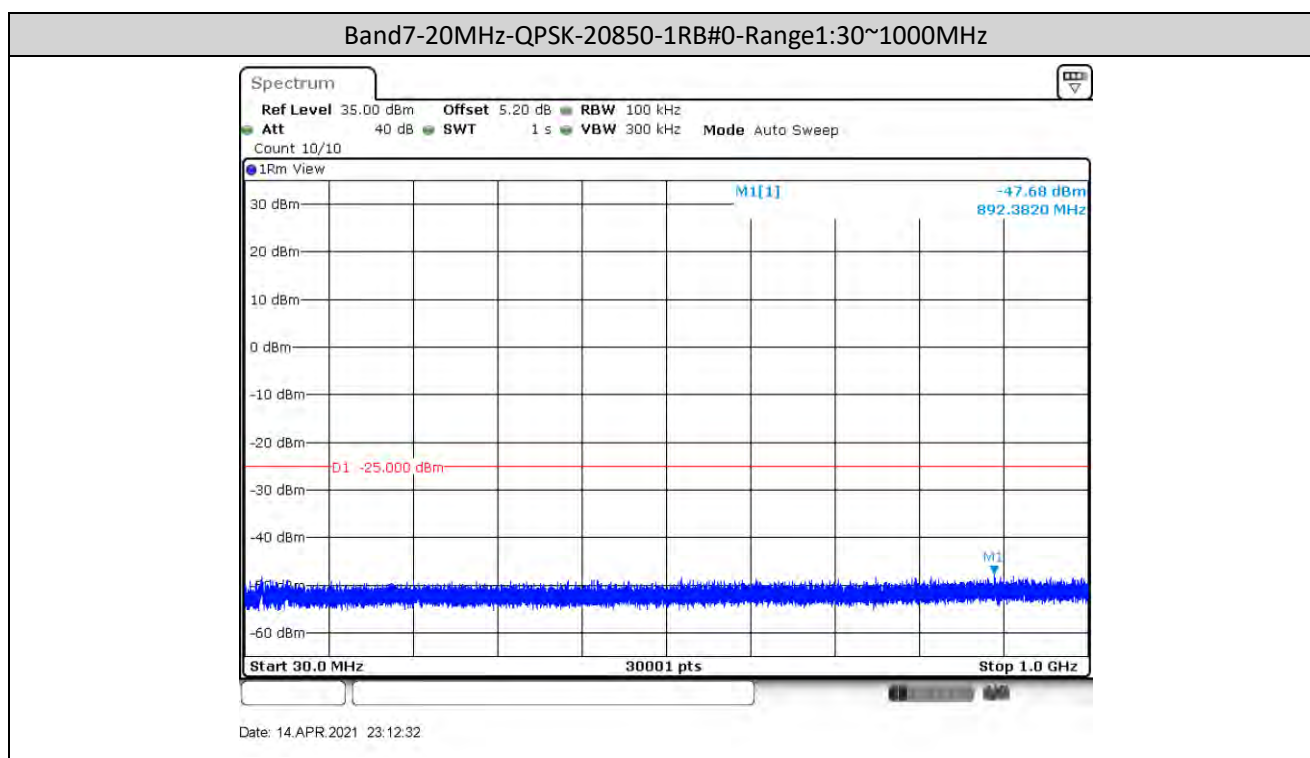
6. Spurious Emission at Antenna Terminal

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 = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

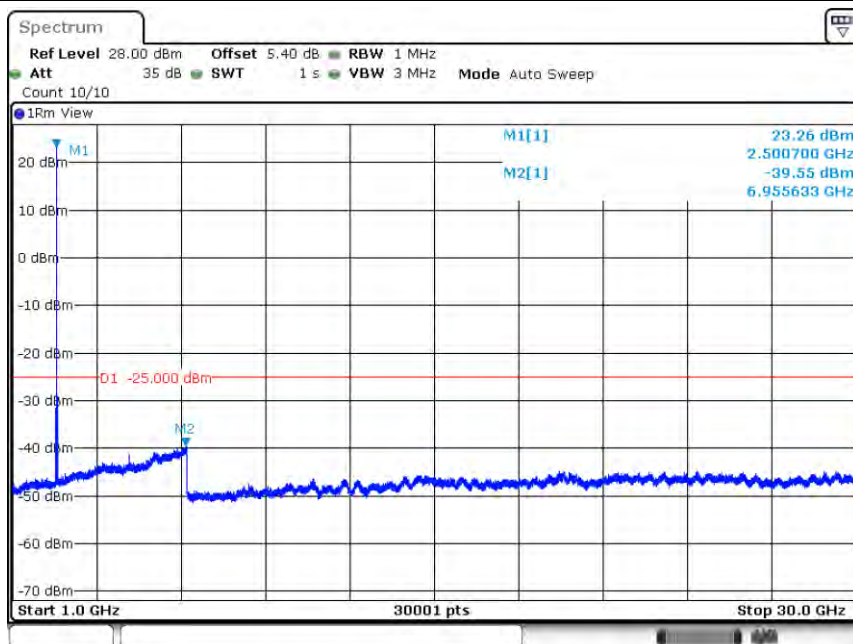
Remark2: According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

Remark3: 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 had been displayed.

6.1. Test Plots

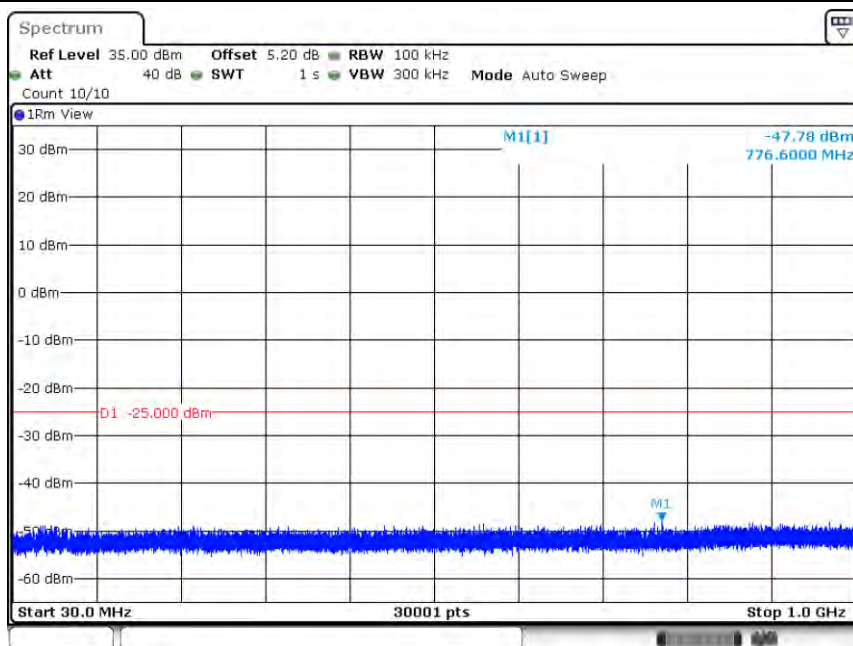


Band7-20MHz-QPSK-20850-1RB#0-Range2:1000~30000MHz



Date: 14.APR.2021 23:12:48

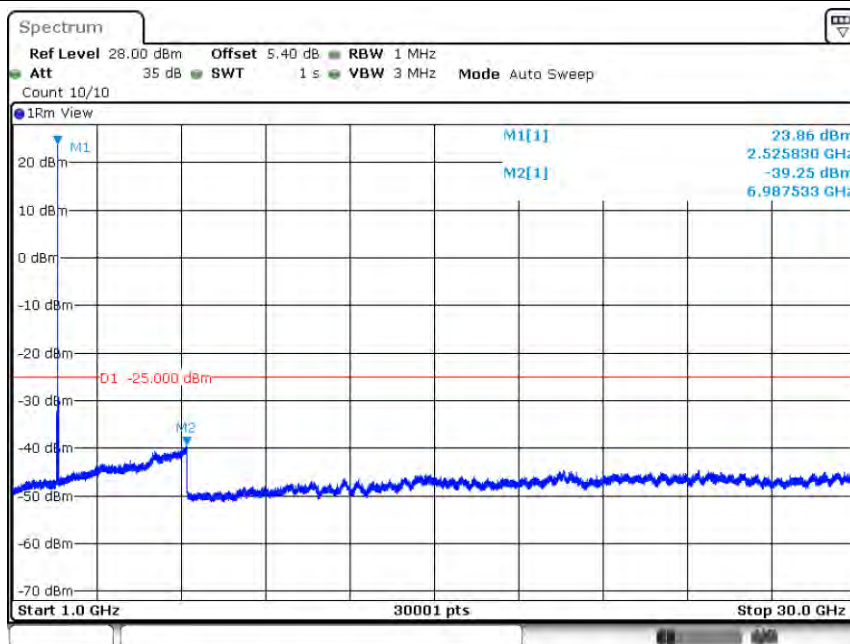
Band7-20MHz-QPSK-21100-1RB#0-Range1:30~1000MHz



Date: 14.APR.2021 23:13:43

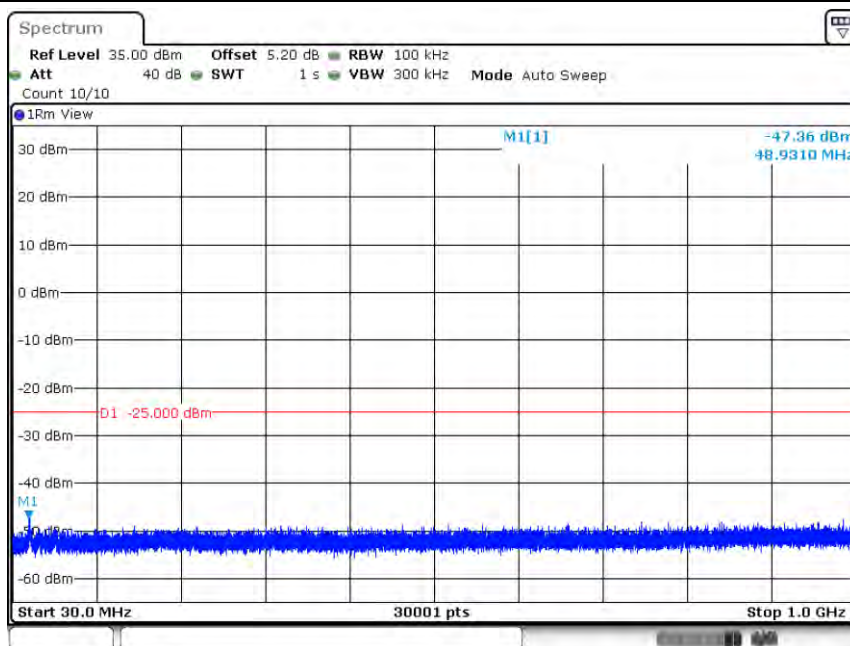


Band7-20MHz-QPSK-21100-1RB#0-Range2:1000~30000MHz



Date: 14.APR.2021 23:14:00

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



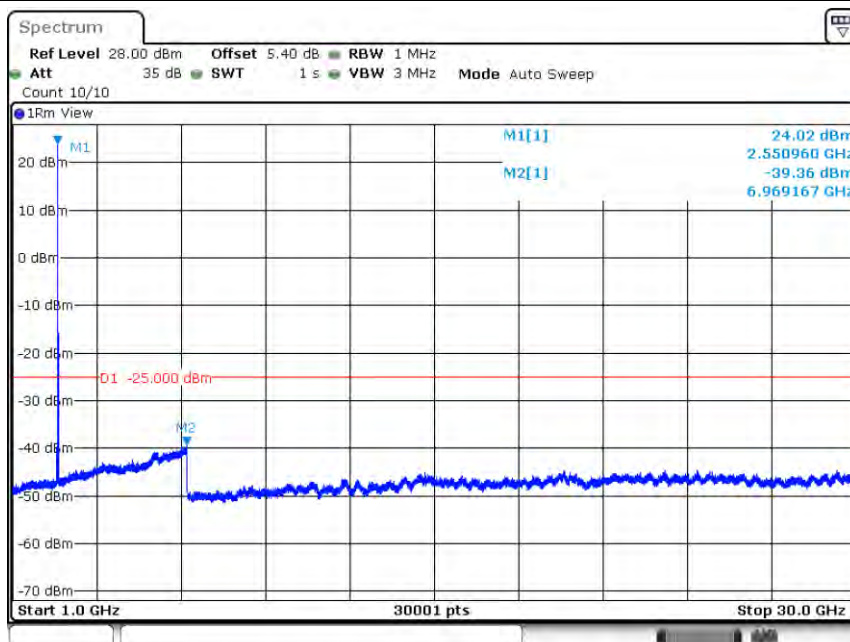
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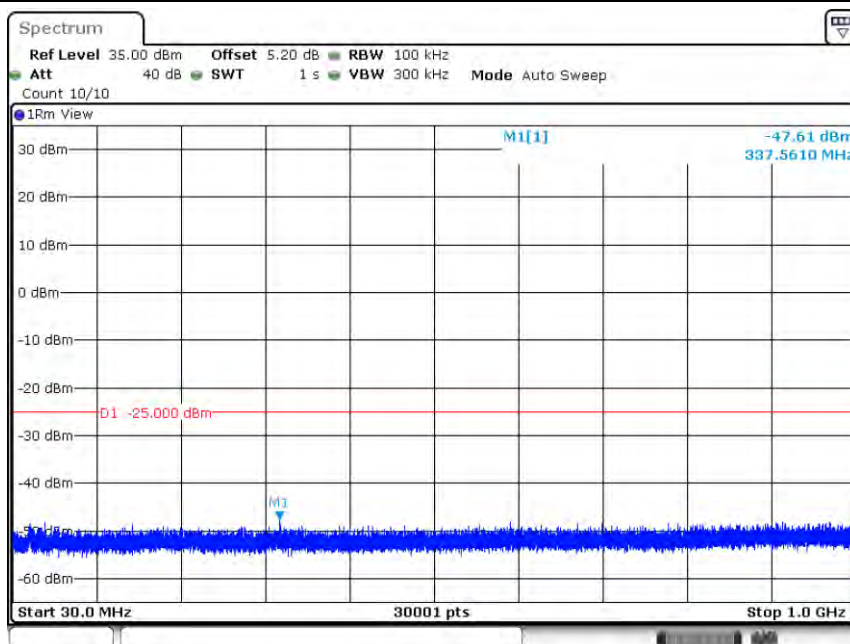
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Band7-20MHz-QPSK-21350-1RB#0-Range2:1000~30000MHz



Date: 14.APR.2021 23:15:11

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



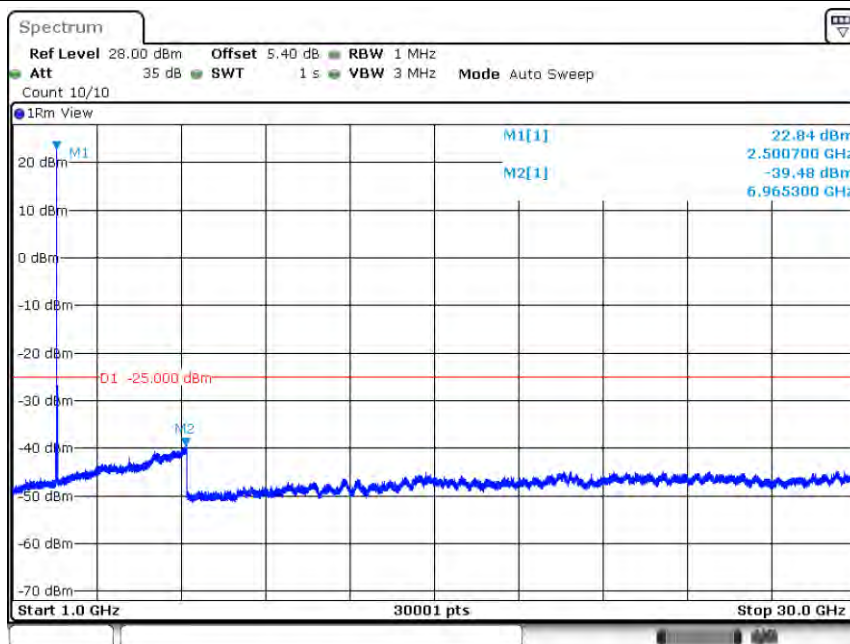
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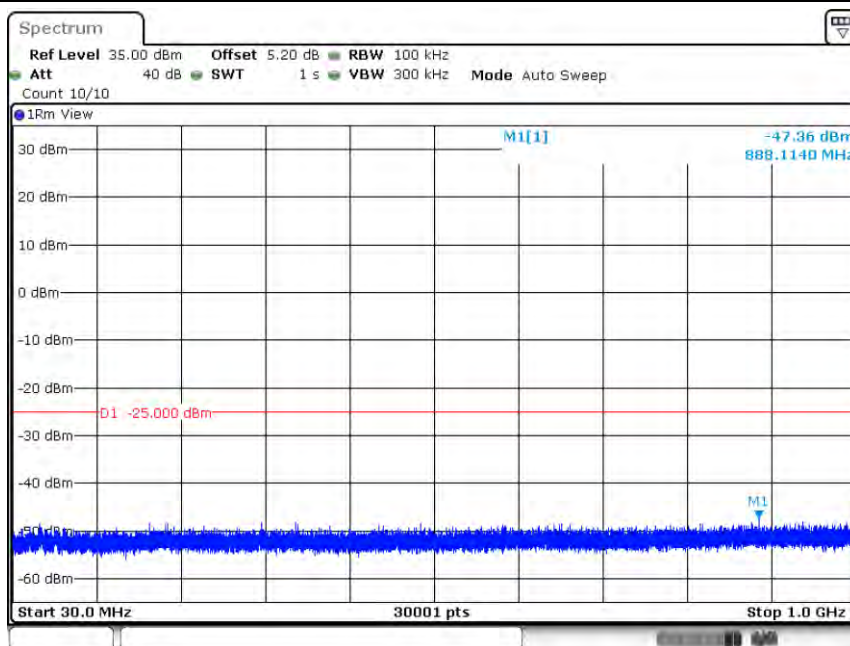
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Band7-20MHz-16QAM-20850-1RB#0-Range2:1000~30000MHz



Date: 14.APR.2021 23:13:24

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



Date: 14.APR.2021 23:14:19

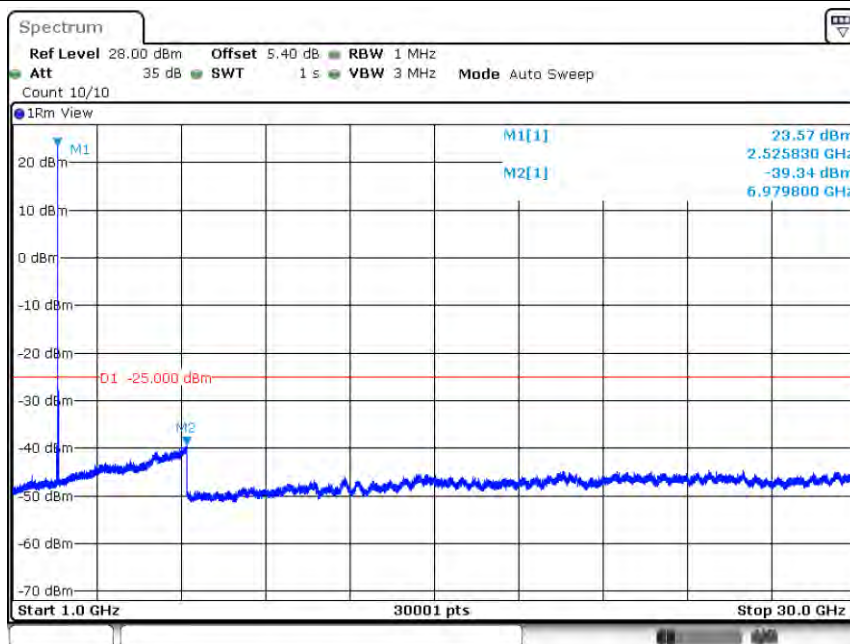


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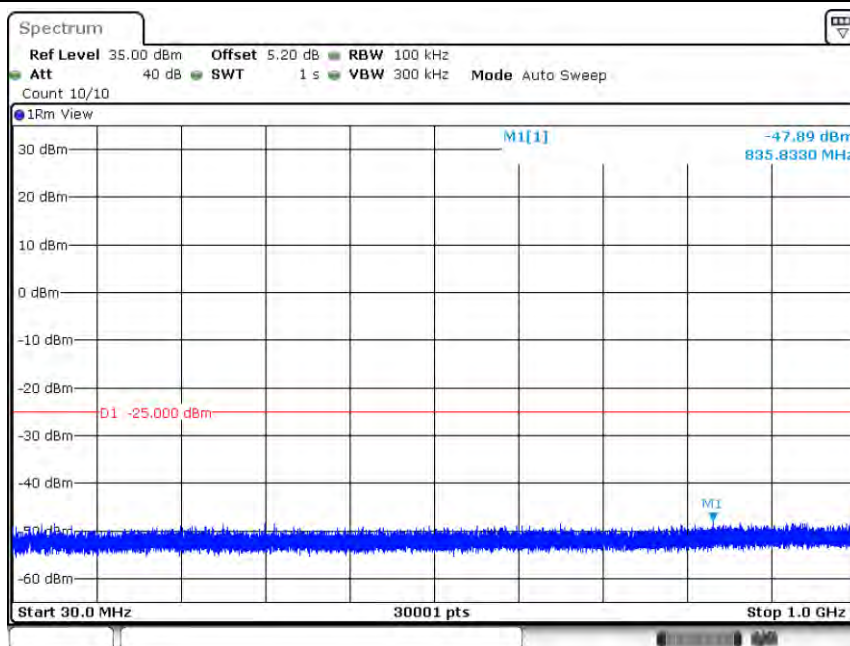
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Band7-20MHz-16QAM-21100-1RB#0-Range2:1000~30000MHz



Date: 14.APR.2021 23:14:36

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



Date: 14.APR.2021 23:15:30

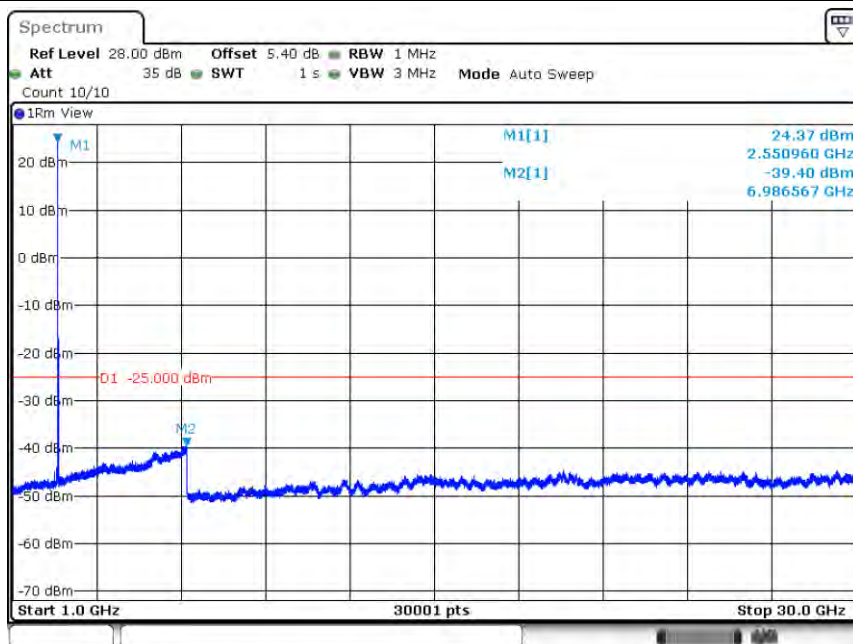


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Band7-20MHz-16QAM-21350-1RB#0-Range2:1000~30000MHz



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7. Field Strength of Spurious Radiation

ANT1:

7.1. Test Band = LTE_Band=7 BW=20MHz_TM1

7.1.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.6408	-99.68	-67.32	-25.00	42.32	Horizontal
2	220.4560	-91.54	-65.06	-25.00	40.06	Horizontal
3	992.4335	-96.18	-57.52	-25.00	32.52	Horizontal
4	5002.2801	-41.50	-42.85	-25.00	17.85	Horizontal
5	7503.1801	-52.14	-50.27	-25.00	25.27	Horizontal
6	12505.580	-56.21	-46.05	-25.00	21.05	Horizontal

7.2. Test Band = LTE_Band=7 BW=20MHz_TM1

7.2.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	48.6252	-96.30	-72.42	-25.00	47.42	Vertical
2	223.2369	-93.17	-68.96	-25.00	43.96	Vertical
3	996.7018	-96.39	-57.62	-25.00	32.62	Vertical
4	5002.2801	-43.46	-44.75	-25.00	19.75	Vertical
5	7503.1801	-45.84	-43.88	-25.00	18.88	Vertical
6	12505.580	-53.56	-44.43	-25.00	19.43	Vertical



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7.3. Test Band = LTE_Band=7 BW=20MHz_TM1

7.3.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.8049	-99.42	-67.03	-25.00	42.03	Horizontal
2	222.2021	-90.88	-64.04	-25.00	39.04	Horizontal
3	553.0589	-95.25	-64.51	-25.00	39.51	Horizontal
4	5052.0821	-46.27	-47.85	-25.00	22.85	Horizontal
5	7578.1831	-53.05	-51.81	-25.00	26.81	Horizontal
6	10104.284	-55.15	-47.90	-25.00	22.90	Horizontal

7.4. Test Band = LTE_Band=7 BW=20MHz_TM1

7.4.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	49.0133	-97.61	-73.65	-25.00	48.65	Vertical
2	110.1920	-99.44	-67.52	-25.00	42.52	Vertical
3	221.2321	-93.58	-69.52	-25.00	44.52	Vertical
4	5052.0821	-47.22	-48.97	-25.00	23.97	Vertical
5	7578.1831	-48.52	-47.09	-25.00	22.09	Vertical
6	12630.385	-56.72	-47.51	-25.00	22.51	Vertical





7.5. Test Band = LTE_Band=7 BW=20MHz _TM1

7.5.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.7701	-99.84	-67.48	-25.00	42.48	Horizontal
2	222.2668	-91.38	-64.52	-25.00	39.52	Horizontal
3	662.2235	-96.07	-64.24	-25.00	39.24	Horizontal
4	5101.8841	-44.29	-45.23	-25.00	20.23	Horizontal
5	10203.888	-53.25	-46.04	-25.00	21.04	Horizontal
6	12755.190	-59.72	-48.07	-25.00	23.07	Horizontal

7.6. Test Band = LTE_Band=7 BW=20MHz _TM1

7.6.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	47.6552	-98.06	-74.37	-25.00	49.37	Vertical
2	221.2968	-92.32	-68.26	-25.00	43.26	Vertical
3	608.2232	-96.56	-65.20	-25.00	40.20	Vertical
4	5101.8841	-45.17	-46.49	-25.00	21.49	Vertical
5	10203.888	-48.81	-41.61	-25.00	16.61	Vertical
6	12755.190	-58.36	-48.17	-25.00	23.17	Vertical



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ANT2:

7.7. Test Band = LTE_Band=7 BW=20MHz_TM1

7.7.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.1234	-71.48	-55.70	-25.00	30.70	Horizontal
2	249.8167	-80.30	-68.78	-25.00	43.78	Horizontal
3	1033.8689	-73.97	-48.55	-25.00	23.55	Horizontal
4	2986.3991	-72.93	-32.60	-25.00	7.60	Horizontal
5	5331.0932	-59.92	-58.78	-25.00	33.78	Horizontal
6	17991.599	-60.50	-45.78	-25.00	20.78	Horizontal

7.8. Test Band = LTE_Band=7 BW=20MHz_TM1

7.8.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.0587	-72.12	-68.84	-25.00	43.84	Vertical
2	111.3561	-80.79	-65.59	-25.00	40.59	Vertical
3	1060.1373	-73.68	-47.56	-25.00	22.56	Vertical
4	2985.1990	-72.91	-32.49	-25.00	7.49	Vertical
5	5279.4912	-59.01	-58.33	-25.00	33.33	Vertical
6	17993.399	-60.27	-40.81	-25.00	15.81	Vertical



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7.9. Test Band = LTE_Band=7 BW=20MHz_TM1

7.9.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.2528	-71.79	-56.00	-25.00	31.00	Horizontal
2	172.3408	-73.47	-69.44	-25.00	44.44	Horizontal
3	1082.9389	-73.45	-47.13	-25.00	22.13	Horizontal
4	2974.9317	-73.12	-32.95	-25.00	7.95	Horizontal
5	5072.4829	-55.35	-56.66	-25.00	31.66	Horizontal
6	17991.599	-60.02	-45.30	-25.00	20.30	Horizontal

7.10. Test Band = LTE_Band=7 BW=20MHz_TM1

7.10.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.5809	-72.72	-67.23	-25.00	42.23	Vertical
2	105.2123	-79.92	-65.60	-25.00	40.60	Vertical
3	1084.2723	-73.95	-47.22	-25.00	22.22	Vertical
4	2984.1323	-73.28	-32.87	-25.00	7.87	Vertical
5	5427.6971	-59.37	-60.34	-25.00	35.34	Vertical
6	17993.999	-59.87	-40.41	-25.00	15.41	Vertical



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7.11. Test Band = LTE_Band=7 BW=20MHz_TM1

7.11.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.9941	-71.60	-55.83	-25.00	30.83	Horizontal
2	230.6740	-80.49	-69.01	-25.00	44.01	Horizontal
3	1191.7461	-74.09	-46.40	-25.00	21.40	Horizontal
4	3000.0000	-73.39	-32.68	-25.00	7.68	Horizontal
5	5118.0847	-54.19	-55.16	-25.00	30.16	Horizontal
6	17938.197	-59.81	-45.25	-25.00	20.25	Horizontal

7.12. Test Band = LTE_Band=7 BW=20MHz_TM1

7.12.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.9294	-70.15	-66.99	-25.00	41.99	Vertical
2	114.6543	-80.29	-65.35	-25.00	40.35	Vertical
3	647.1551	-80.28	-64.08	-25.00	39.08	Vertical
4	1118.5412	-73.72	-46.45	-25.00	21.45	Vertical
5	2969.7313	-72.94	-32.78	-25.00	7.78	Vertical
6	17668.186	-60.87	-46.65	-25.00	21.65	Vertical

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	-1.10	-0.000438	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	3.40	0.001355	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	1.30	0.000518	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-3.50	-0.001381	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-6.20	-0.002446	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-3.90	-0.001538	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	0.80	0.000313	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	-2.00	-0.000781	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	1.20	0.000469	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	4.20	0.001673	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	0.80	0.000319	±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	-1.70	-0.000671	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	-1.90	-0.000750	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	-1.60	-0.000631	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	-1.50	-0.000586	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	0.80	0.000313	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	3.00	0.001172	±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	3.00	0.001195	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	2.80	0.001116	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-10	1.00	0.000398	±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	2.90	0.001155	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	2.90	0.001155	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	2.10	0.000837	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	4.60	0.001833	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	0.80	0.000319	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-2.80	-0.001105	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-4.50	-0.001775	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-5.10	-0.002012	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-3.10	-0.001223	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-5.40	-0.002130	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-1.40	-0.000552	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-4.30	-0.001696	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-5.20	-0.002051	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-4.40	-0.001736	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	2.40	0.000938	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	-1.20	-0.000469	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-10	0.00	0.000000	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	2.30	0.000898	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-1.50	-0.000586	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	1.90	0.000742	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	0.00	0.000000	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	1.10	0.000430	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	-1.70	-0.000664	±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	-20	2.00	0.000797	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-10	0.50	0.000199	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	2.00	0.000797	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	3.60	0.001434	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	3.30	0.001315	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	2.40	0.000956	±2.5	PASS



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Band7	20MHz	16QAM	20850	100RB#0	NV	40	0.00	0.000000	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	1.60	0.000637	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	-2.50	-0.000986	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	-1.10	-0.000434	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-10	-4.10	-0.001617	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	-4.90	-0.001933	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	-1.80	-0.000710	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	-4.80	-0.001893	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	-3.80	-0.001499	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	-5.90	-0.002327	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	-3.20	-0.001262	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	1.10	0.000430	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-20	0.60	0.000234	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-10	1.30	0.000508	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	-1.80	-0.000703	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	0.60	0.000234	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	1.50	0.000586	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	0.10	0.000039	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	40	1.30	0.000508	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	0.70	0.000273	±2.5	PASS



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