



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	Verdict
Band7	5MHz	QPSK	20775	1RB#0	22.77	23.47	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.86	23.56	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.53	23.23	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	21.59	22.29	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	21.64	22.34	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	21.58	22.28	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.59	22.29	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.74	23.44	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.47	23.17	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.4	23.1	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	21.48	22.18	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	21.59	22.29	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	21.46	22.16	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.95	22.65	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.85	23.55	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.5	23.2	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.44	23.14	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	21.53	22.23	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	21.6	22.3	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	21.5	22.2	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.47	22.17	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.28	21.98	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.7	22.4	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.83	22.53	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	20.58	21.28	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	20.68	21.38	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	20.52	21.22	33.00	PASS



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Band7	5MHz	16QAM	20775	25RB#0	20.63	21.33	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.41	22.11	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.68	22.38	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.5	22.2	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	20.52	21.22	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	20.49	21.19	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#6	20.5	21.2	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.54	21.24	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.61	22.31	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.65	22.35	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.27	21.97	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#0	20.56	21.26	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	20.65	21.35	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.48	21.18	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.5	21.2	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.84	23.54	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.63	23.33	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.44	23.14	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	21.55	22.25	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	21.62	22.32	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	21.56	22.26	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.6	22.3	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.47	23.17	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.48	23.18	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.39	23.09	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	21.58	22.28	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	21.5	22.2	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	21.95	22.65	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.5	22.2	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.72	23.42	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.72	23.42	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.4	23.1	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	21.59	22.29	33.00	PASS



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Band7	10MHz	QPSK	21400	25RB#25	21.58	22.28	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	21.67	22.37	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.53	22.23	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.84	22.54	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.66	22.36	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.89	22.59	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	20.58	21.28	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	20.65	21.35	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	20.55	21.25	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.58	21.28	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.59	22.29	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	21.6	22.3	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.95	22.65	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	20.45	21.15	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	20.51	21.21	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	20.54	21.24	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.52	21.22	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.6	22.3	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.06	22.76	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.6	22.3	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	20.62	21.32	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	20.45	21.15	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	20.55	21.25	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.53	21.23	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.94	23.64	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.89	23.59	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.46	23.16	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	22.14	22.84	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	21.59	22.29	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	21.61	22.31	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.54	22.24	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.35	23.05	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.47	23.17	33.00	PASS



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Band7	15MHz	QPSK	21100	1RB#38	22.39	23.09	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	21.57	22.27	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	21.60	22.3	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	21.56	22.26	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.61	22.31	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.31	23.01	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.65	23.35	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.43	23.13	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	21.61	22.31	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	21.59	22.29	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	21.65	22.35	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.56	22.26	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.39	22.09	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.92	22.62	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.62	22.32	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	20.57	21.27	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#0	20.52	21.22	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	20.62	21.32	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.50	21.2	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.47	22.17	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.06	22.76	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.84	22.54	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	20.53	21.23	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	20.58	21.28	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	20.53	21.23	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.53	21.23	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.87	22.57	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.76	22.46	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.51	22.21	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	20.52	21.22	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	20.53	21.23	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	20.65	21.35	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.64	21.34	33.00	PASS



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Band7	20MHz	QPSK	20850	1RB#99	22.71	23.41	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.72	23.42	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.16	22.86	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	21.58	22.28	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	21.71	22.41	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	21.6	22.3	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.49	22.19	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.18	22.88	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.46	23.16	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.27	22.97	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	21.56	22.26	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	21.5	22.2	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	21.52	22.22	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.5	22.2	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.25	22.95	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.64	23.34	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.35	23.05	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	21.57	22.27	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	21.66	22.36	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	21.7	22.4	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.58	22.28	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.71	22.41	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.14	22.84	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.71	22.41	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	20.48	21.18	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	20.68	21.38	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	20.57	21.27	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.56	21.26	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.66	22.36	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.62	22.32	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.75	22.45	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	20.45	21.15	33.00	FAIL
Band7	20MHz	16QAM	21100	50RB#0	20.6	21.3	33.00	PASS



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Band7	20MHz	16QAM	21100	50RB#25	20.54	21.24	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.55	21.25	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.3	22	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.67	22.37	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.24	21.94	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	20.61	21.31	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	20.69	21.39	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	20.72	21.42	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.53	21.23	33.00	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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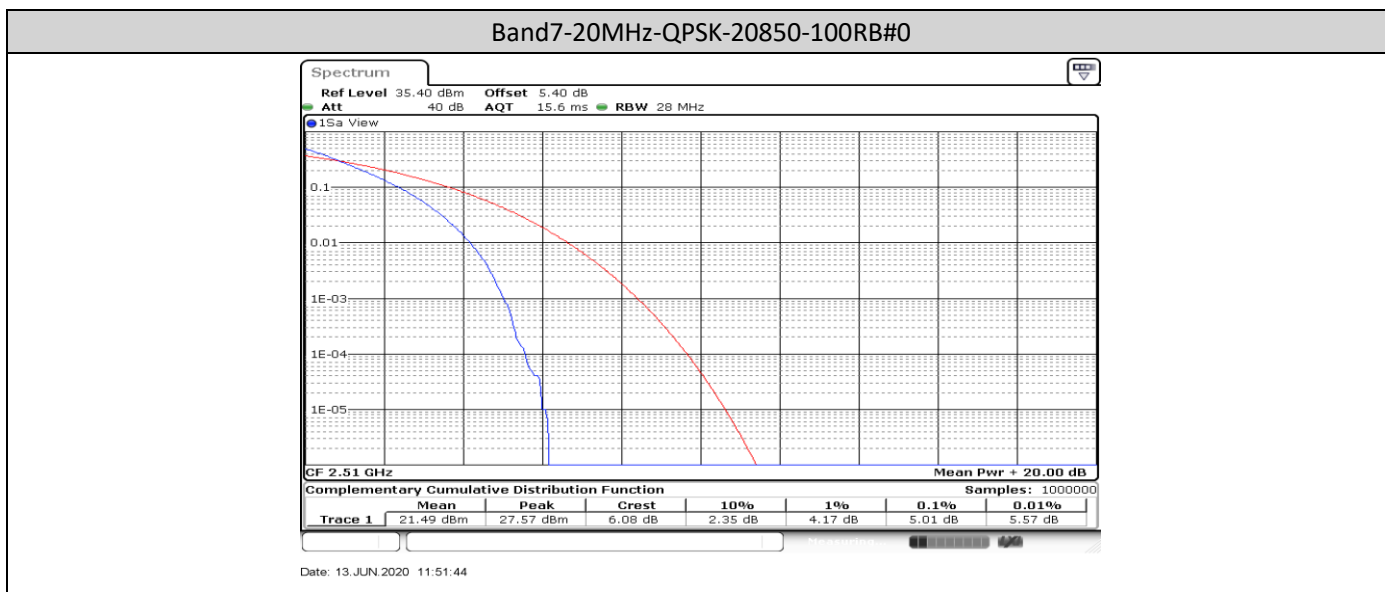


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

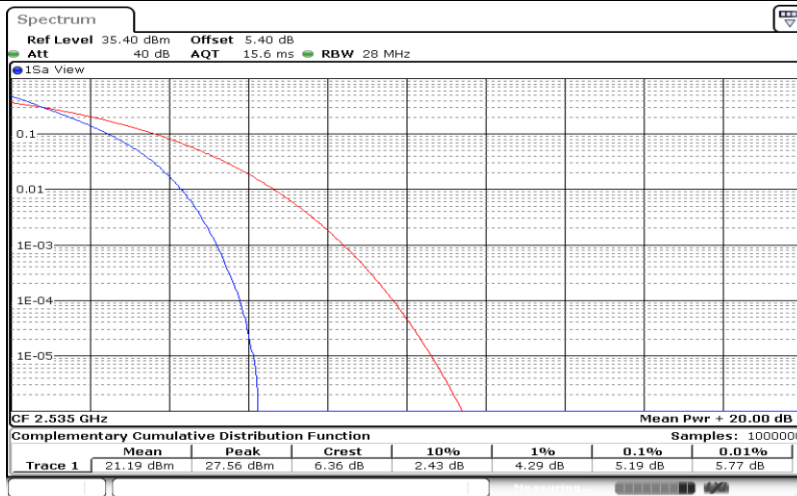
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	5.01	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.19	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.13	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.91	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.00	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.94	13	PASS

2.2. Test Plots



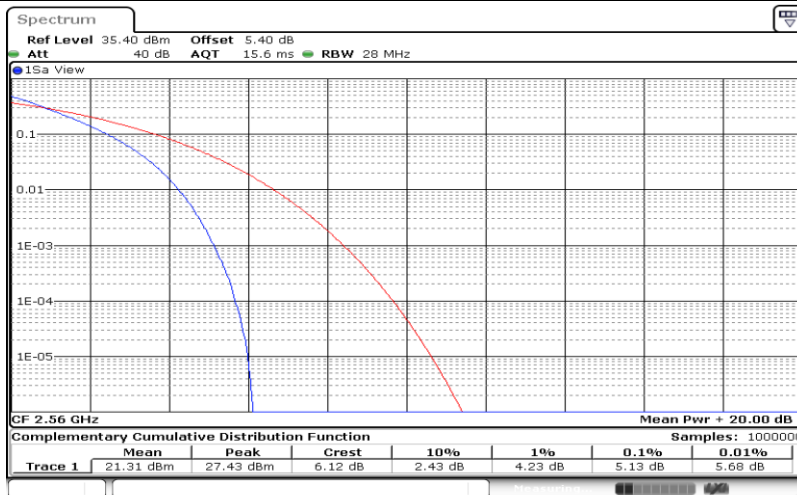
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Band7-20MHz-QPSK-21100-100RB#0



Date: 13 JUN 2020 11:52:06

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



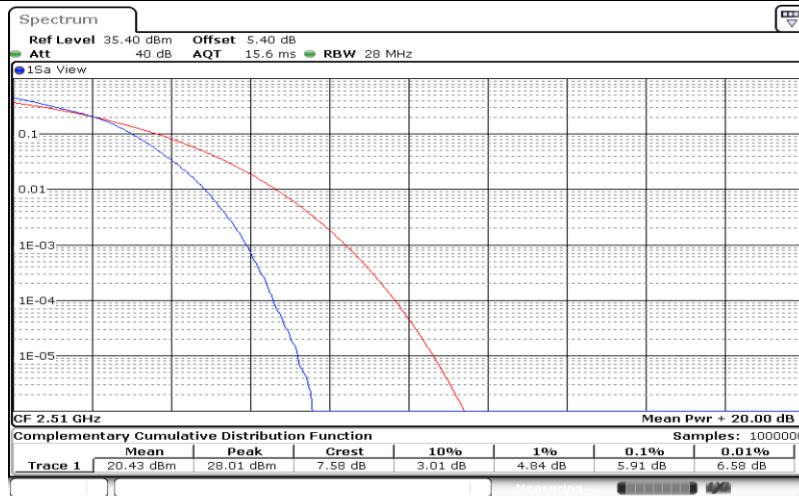
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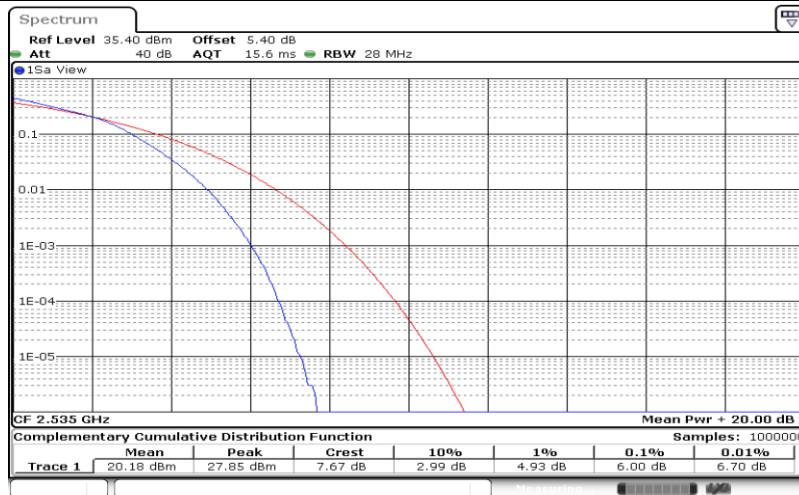
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Band7-20MHz-16QAM-20850-100RB#0



Date: 13 JUN 2020 11:51:55

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

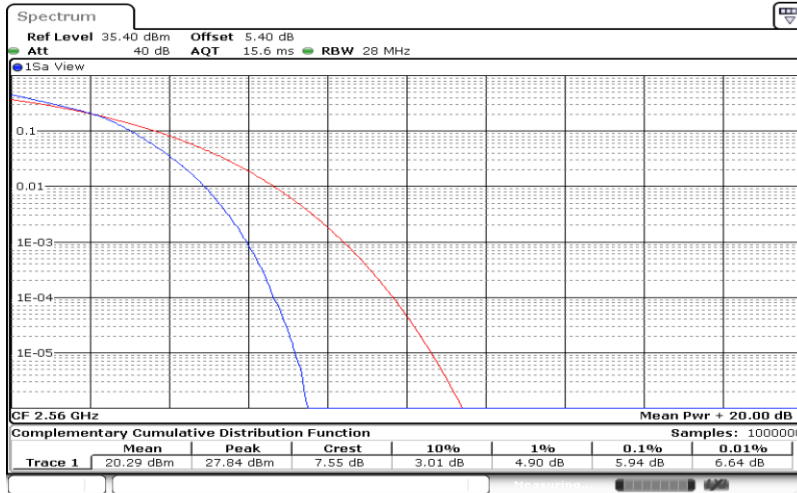


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Band7-20MHz-16QAM-21350-100RB#0



Date: 13 JUN 2020 11:52:40



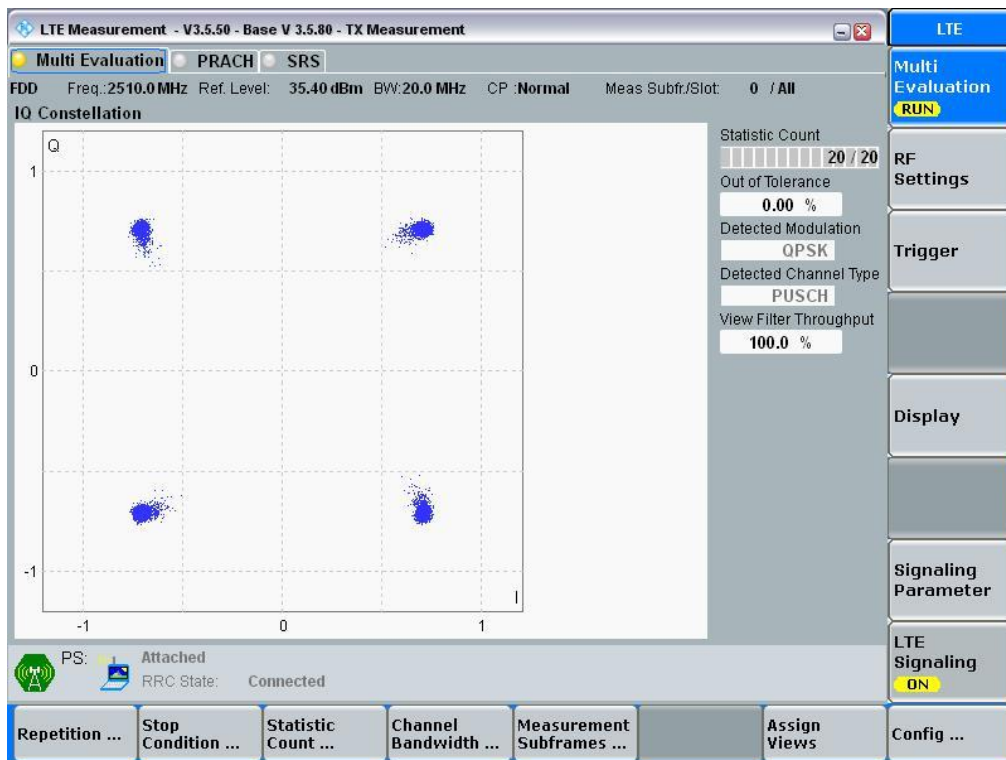
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3. Modulation Characteristics

3.1. Test Band = LTE Band 7

3.1.1. Test Mode = LTE /TM1 20MHz

3.1.1.1. Test Channel = MCH

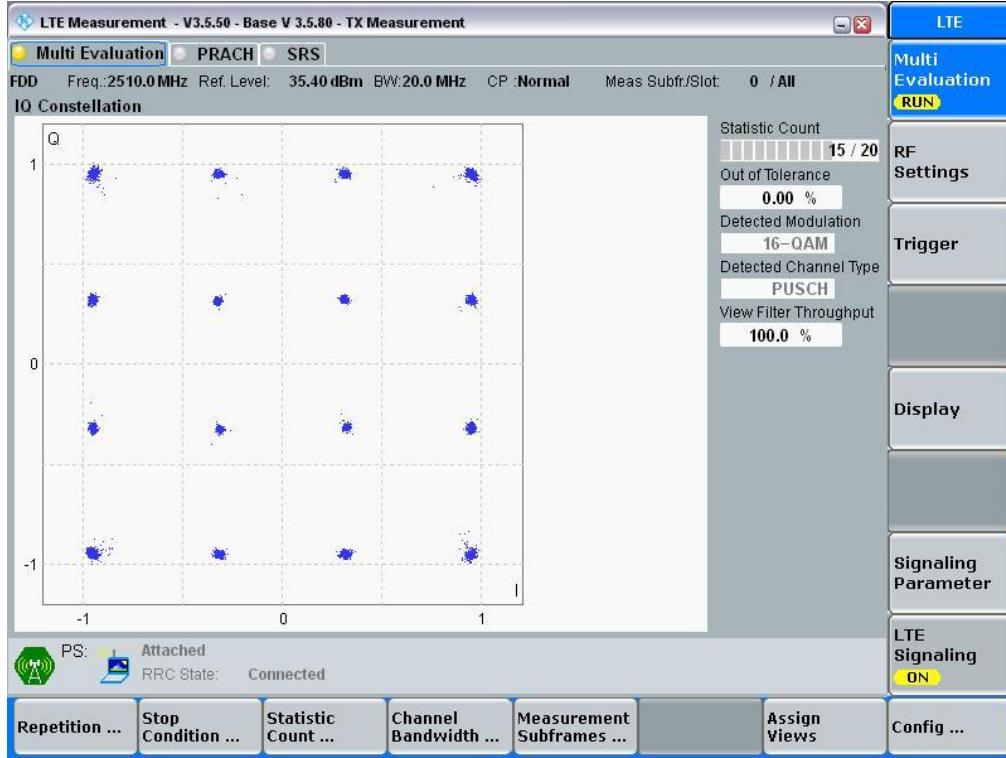


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3.1.2. Test Mode = LTE /TM2 20MHz

3.1.2.1. Test Channel = MCH



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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	4.466	4.830	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.476	4.770	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	4.770	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.486	4.790	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.486	4.750	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.486	4.860	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.931	9.620	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.931	9.600	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.931	9.620	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.951	9.420	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.951	9.420	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.951	9.440	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.606	14.640	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.606	14.610	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.606	14.640	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.457	14.700	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.457	14.640	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.457	14.670	PASS
Band7	20MHz	QPSK	20850	100RB#0	18.062	19.000	PASS
Band7	20MHz	QPSK	21100	100RB#0	18.062	19.160	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.862	19.280	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.902	19.120	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.902	19.320	PASS
Band7	20MHz	16QAM	21350	100RB#0	18.062	19.040	PASS



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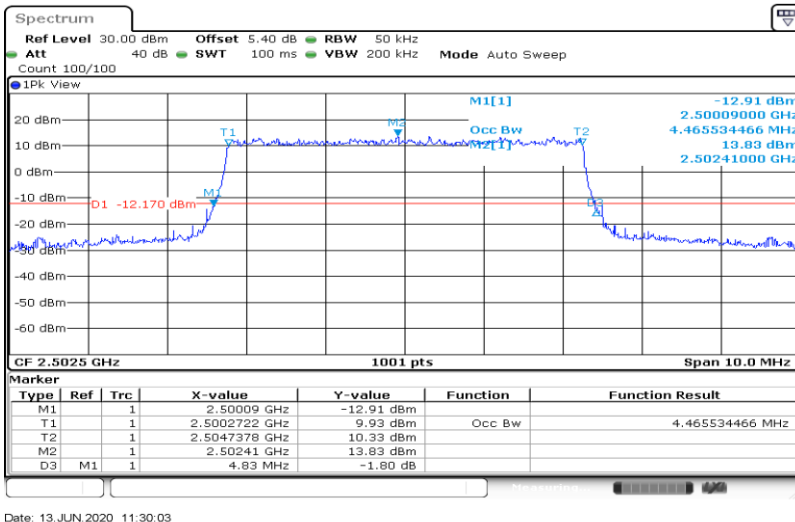
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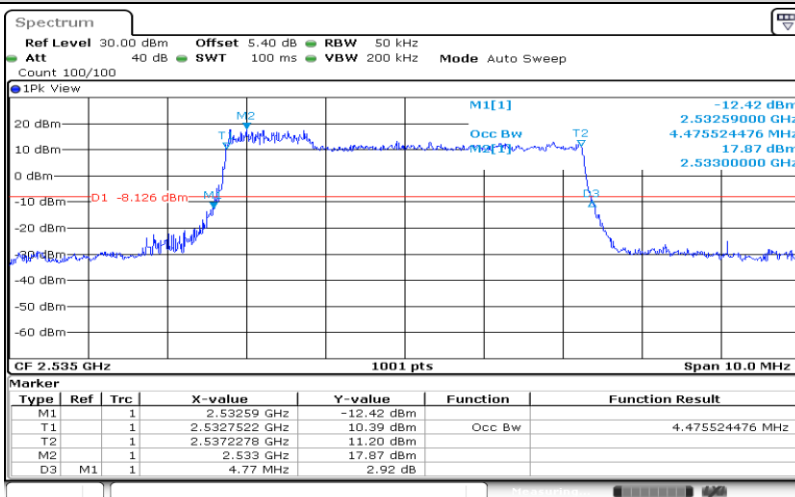
4.2. Test Plots

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



Date: 13 JUN 2020 11:30:03

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



Date: 13 JUN 2020 11:30:42

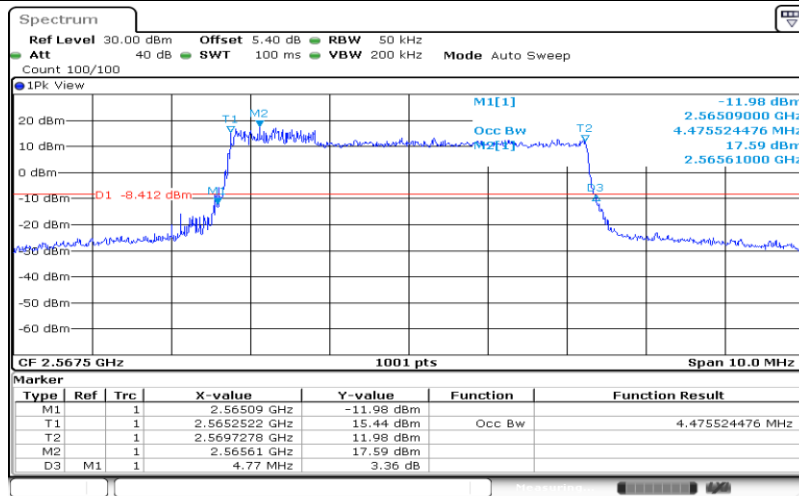


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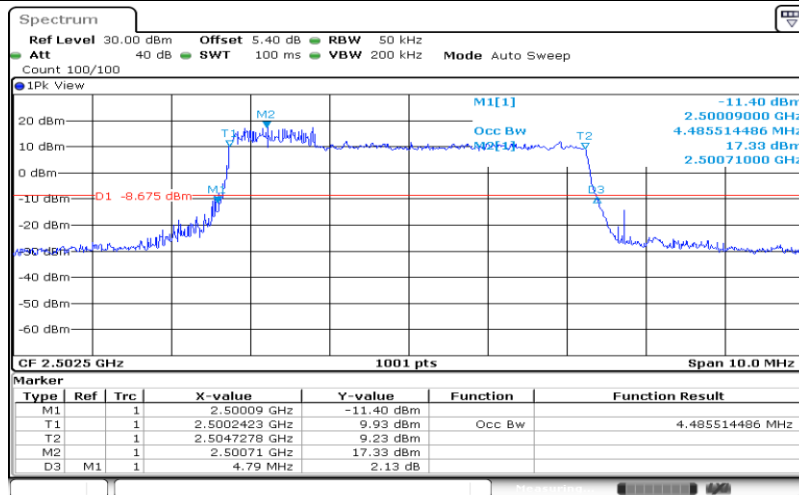
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Band7-5MHz-QPSK-21425-25RB#0-4.476



Date: 13 JUN 2020 11:31:22

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

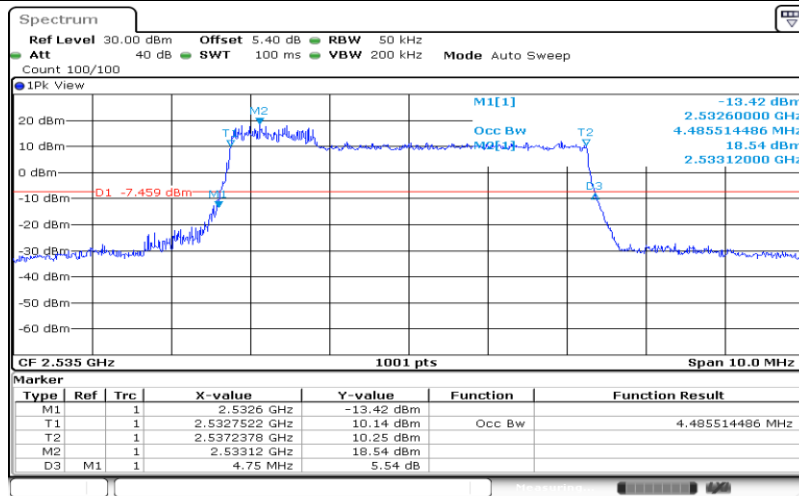


Date: 13 JUN 2020 11:30:22



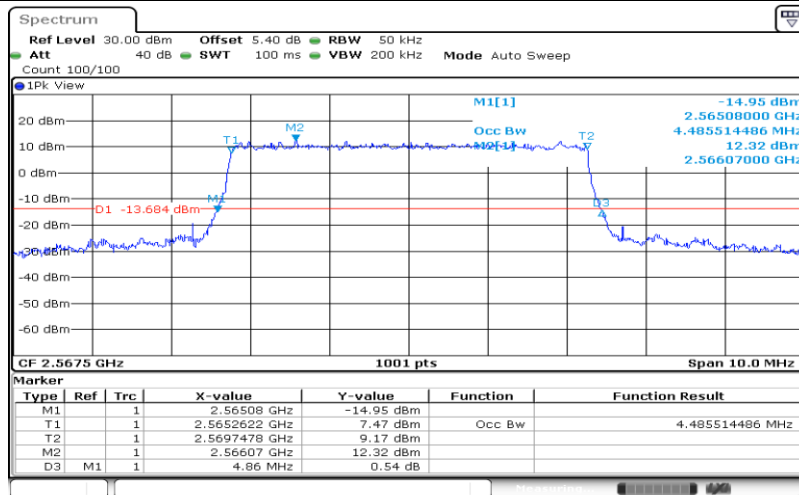
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Band7-5MHz-16QAM-21100-25RB#0-4.486



Date: 13 JUN 2020 11:31:02

Band7-5MHz-16QAM-21425-25RB#0-4.486

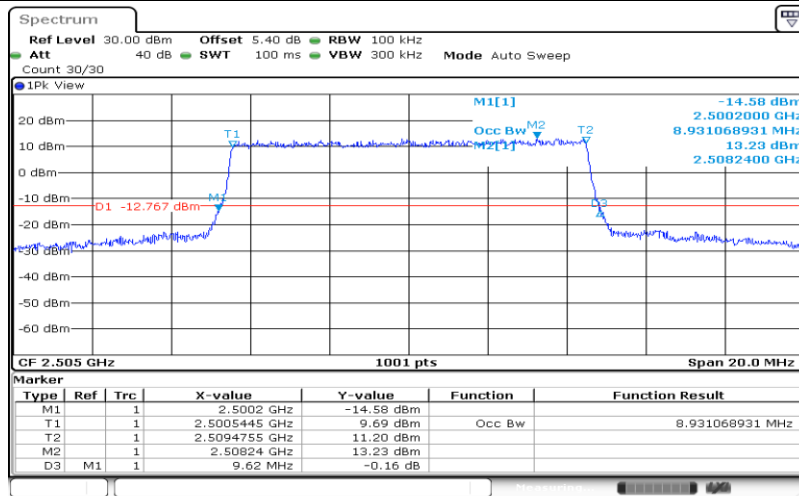


Date: 13 JUN 2020 11:31:41



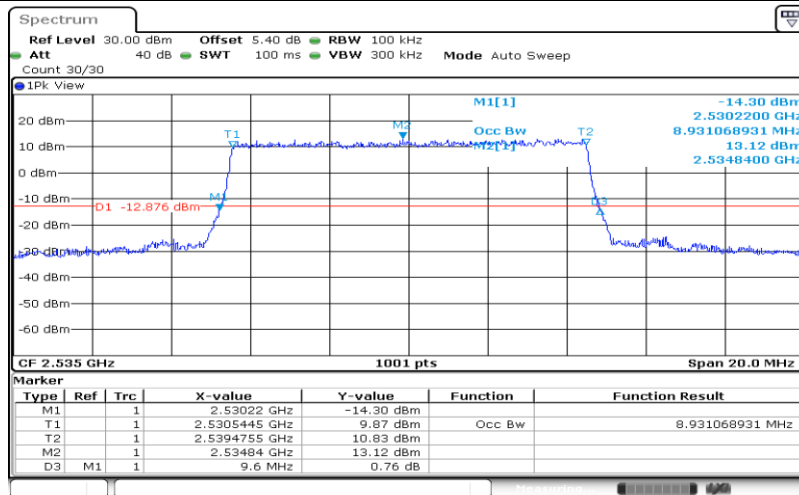
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Band7-10MHz-QPSK-20800-50RB#0-8.931



Date: 13 JUN 2020 11:31:59

Band7-10MHz-QPSK-21100-50RB#0-8.931

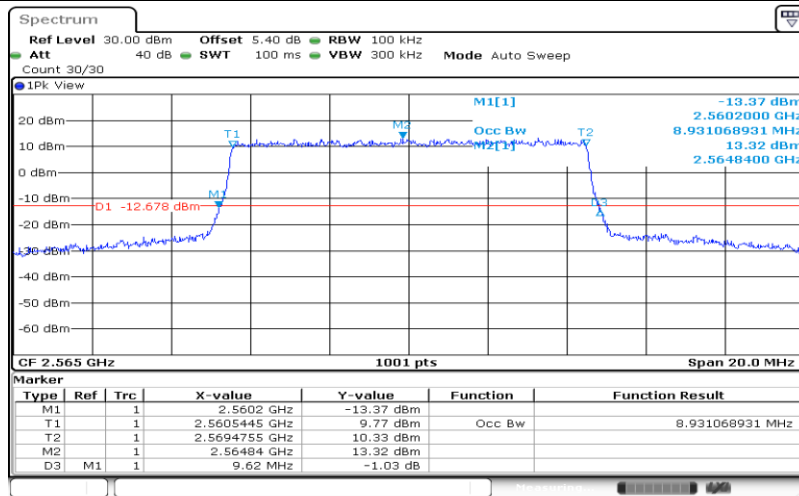


Date: 13 JUN 2020 11:32:24



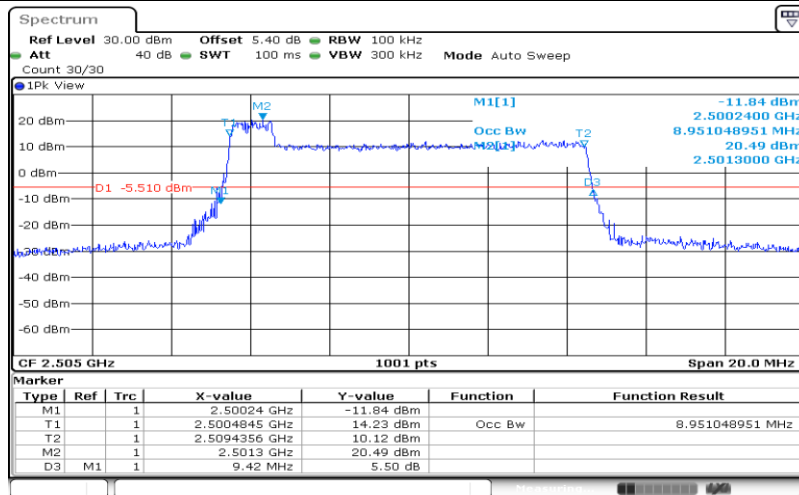
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Band7-10MHz-QPSK-21400-50RB#0-8.931



Date: 13 JUN 2020 11:32:50

Band7-10MHz-16QAM-20800-50RB#0-8.951

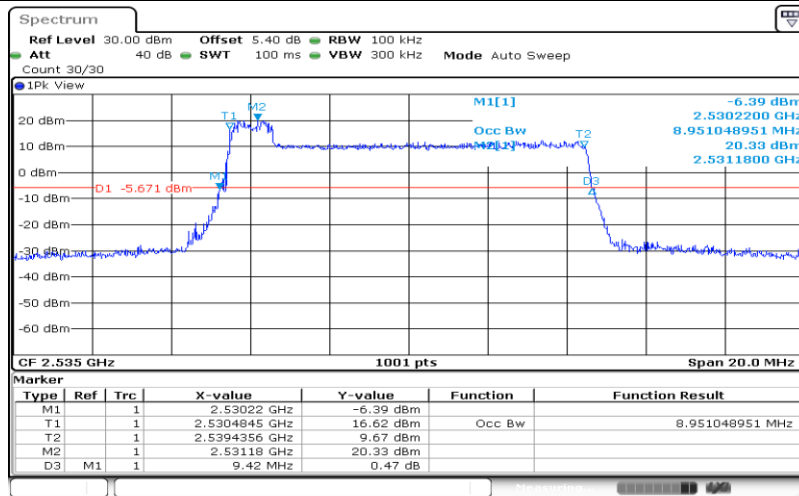


Date: 13 JUN 2020 11:32:11



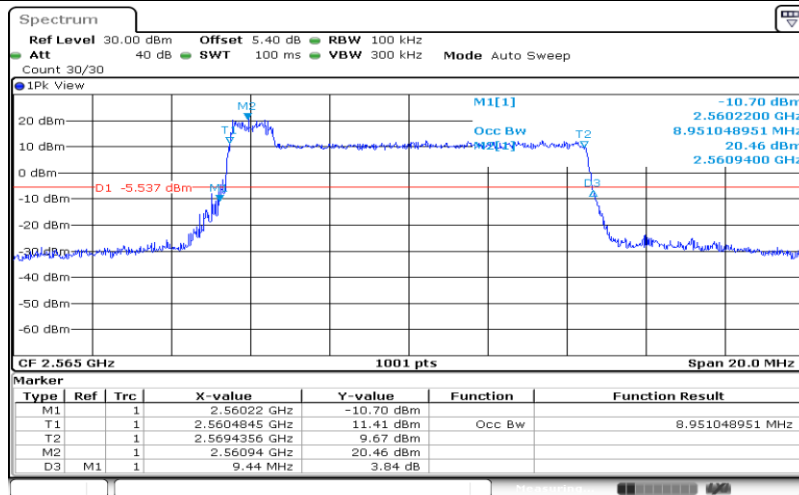
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Band7-10MHz-16QAM-21100-50RB#0-8.951



Date: 13 JUN 2020 11:32:37

Band7-10MHz-16QAM-21400-50RB#0-8.951

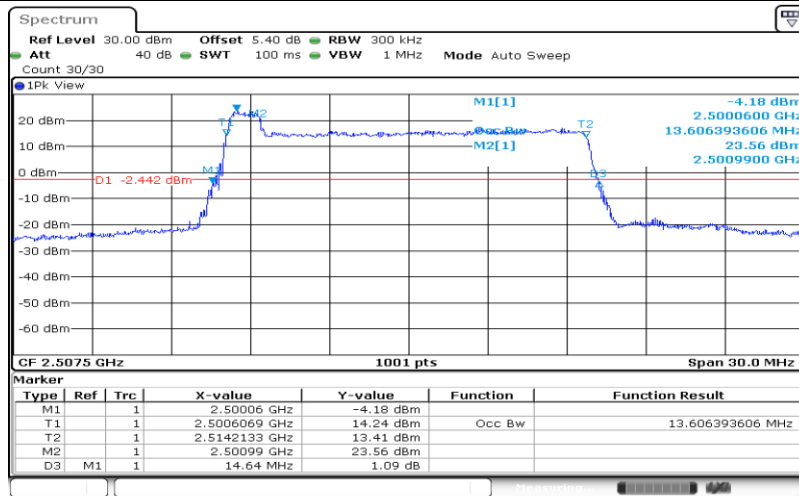


Date: 13 JUN 2020 11:33:02



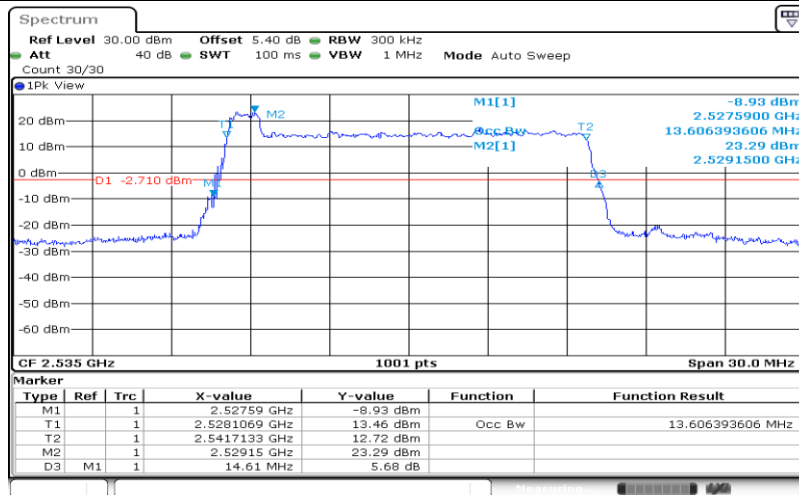
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Band7-15MHz-QPSK-20825-75RB#0-13.606



Date: 13 JUN 2020 11:33:19

Band7-15MHz-QPSK-21100-75RB#0-13.606

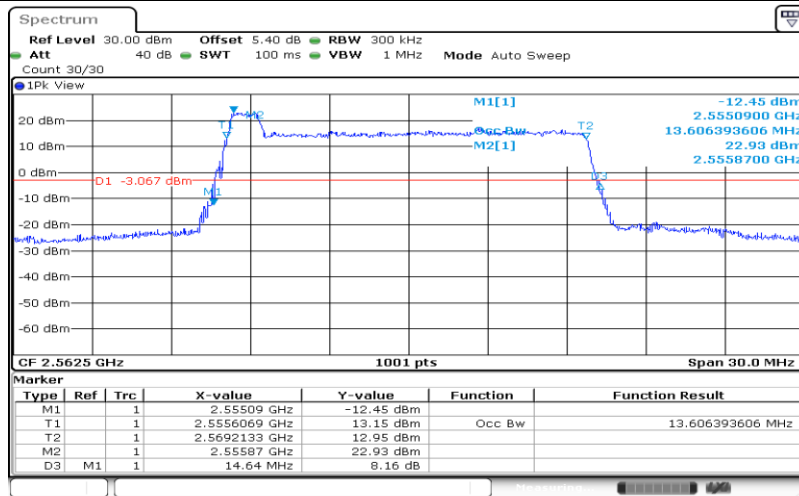


Date: 13 JUN 2020 11:33:45



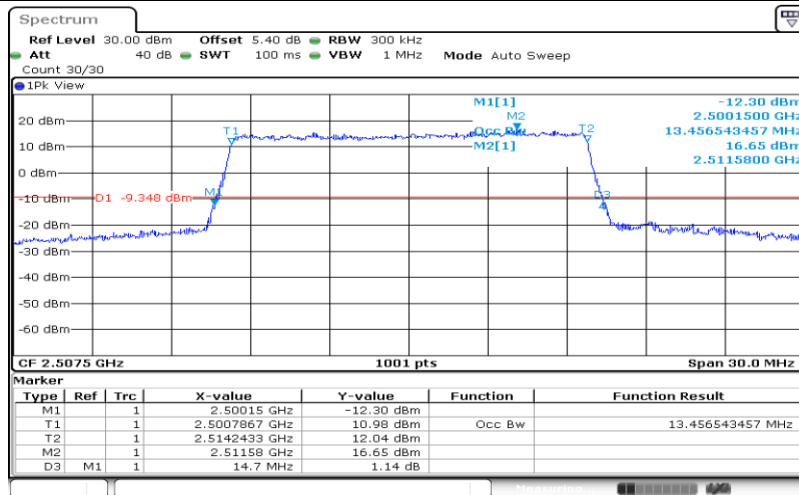
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Band7-15MHz-QPSK-21375-75RB#0-13.606



Date: 13 JUN 2020 11:34:10

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

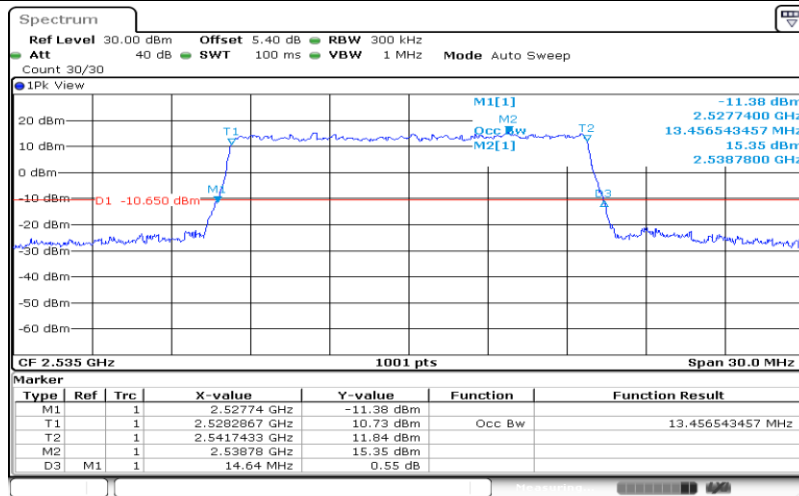


Date: 13 JUN 2020 11:33:32



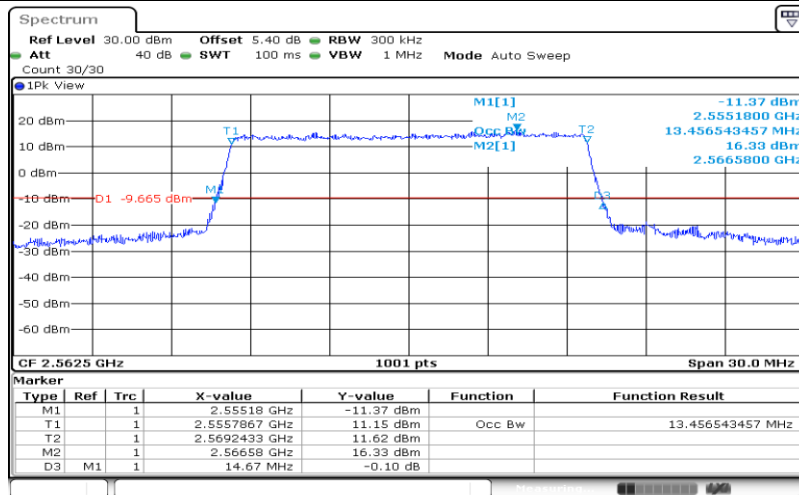
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Band7-15MHz-16QAM-21100-75RB#0-13.457



Date: 13 JUN 2020 11:33:57

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

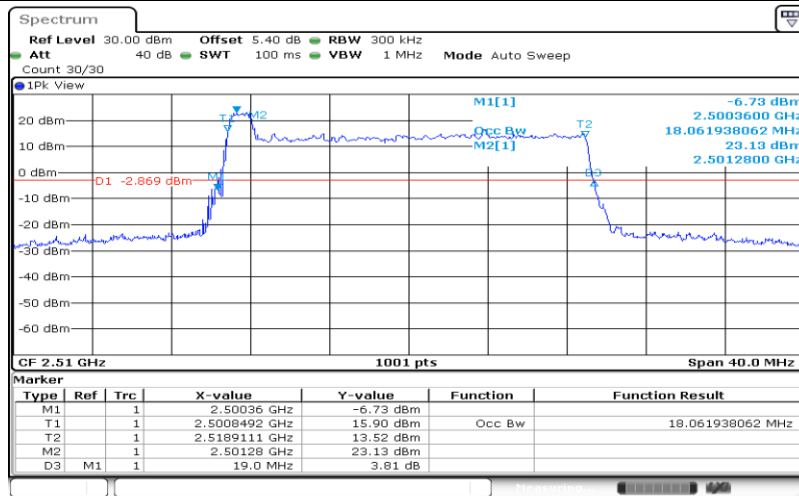


Date: 13 JUN 2020 11:34:23



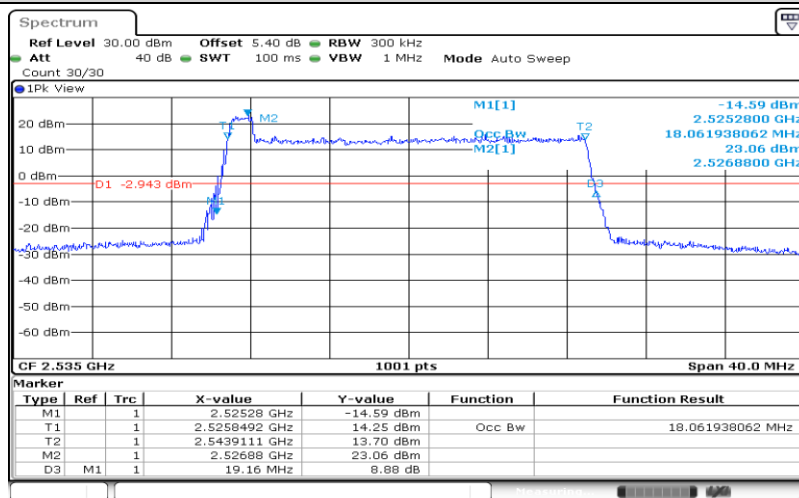
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Band7-20MHz-QPSK-20850-100RB#0-18.062



Date: 13 JUN 2020 11:34:40

Band7-20MHz-QPSK-21100-100RB#0-18.062

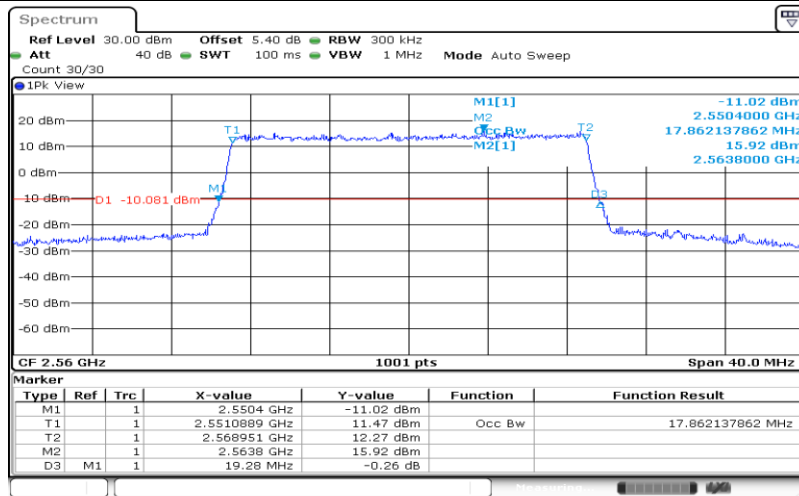


Date: 13 JUN 2020 11:35:06



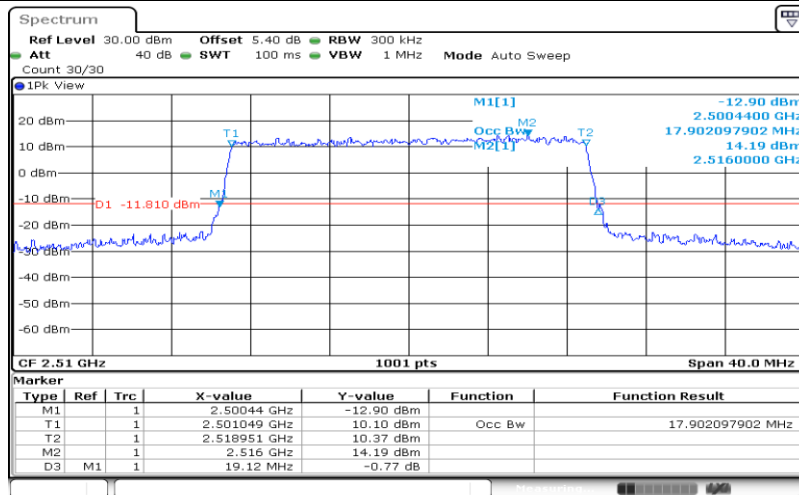
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Band7-20MHz-QPSK-21350-100RB#0-17.862



Date: 13 JUN 2020 11:35:31

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

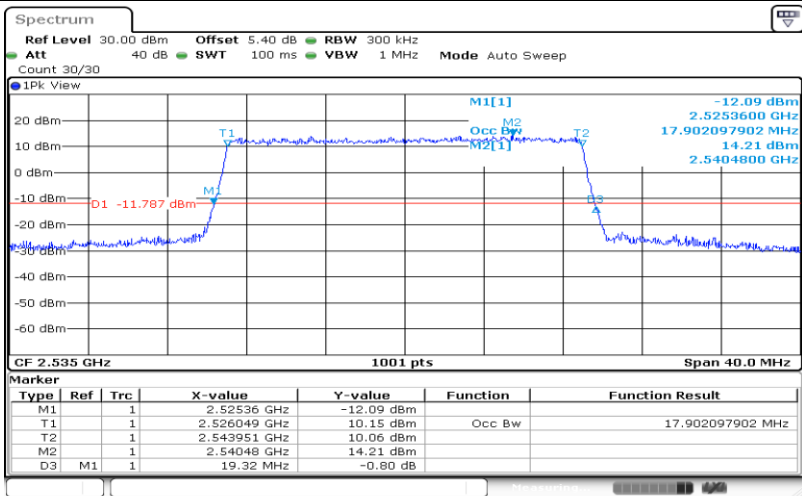


Date: 13 JUN 2020 11:34:53



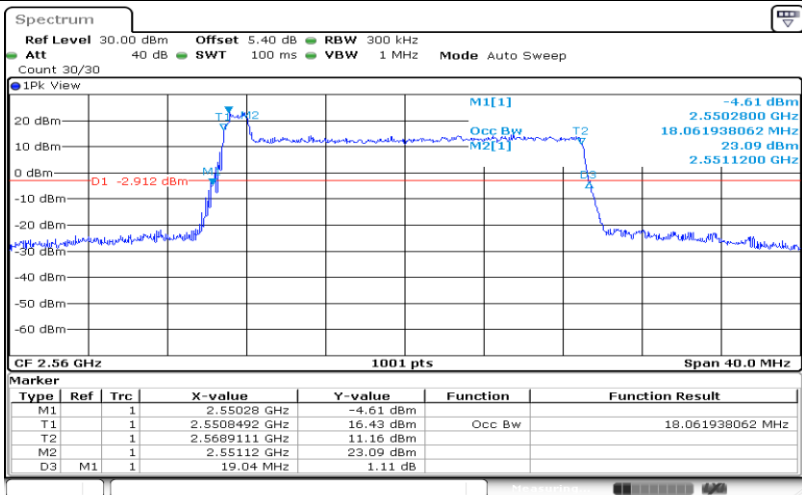
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Band7-20MHz-16QAM-21100-100RB#0-17.902



Date: 13 JUN 2020 11:35:18

Band7-20MHz-16QAM-21350-100RB#0-18.062



Date: 13 JUN 2020 11:35:44



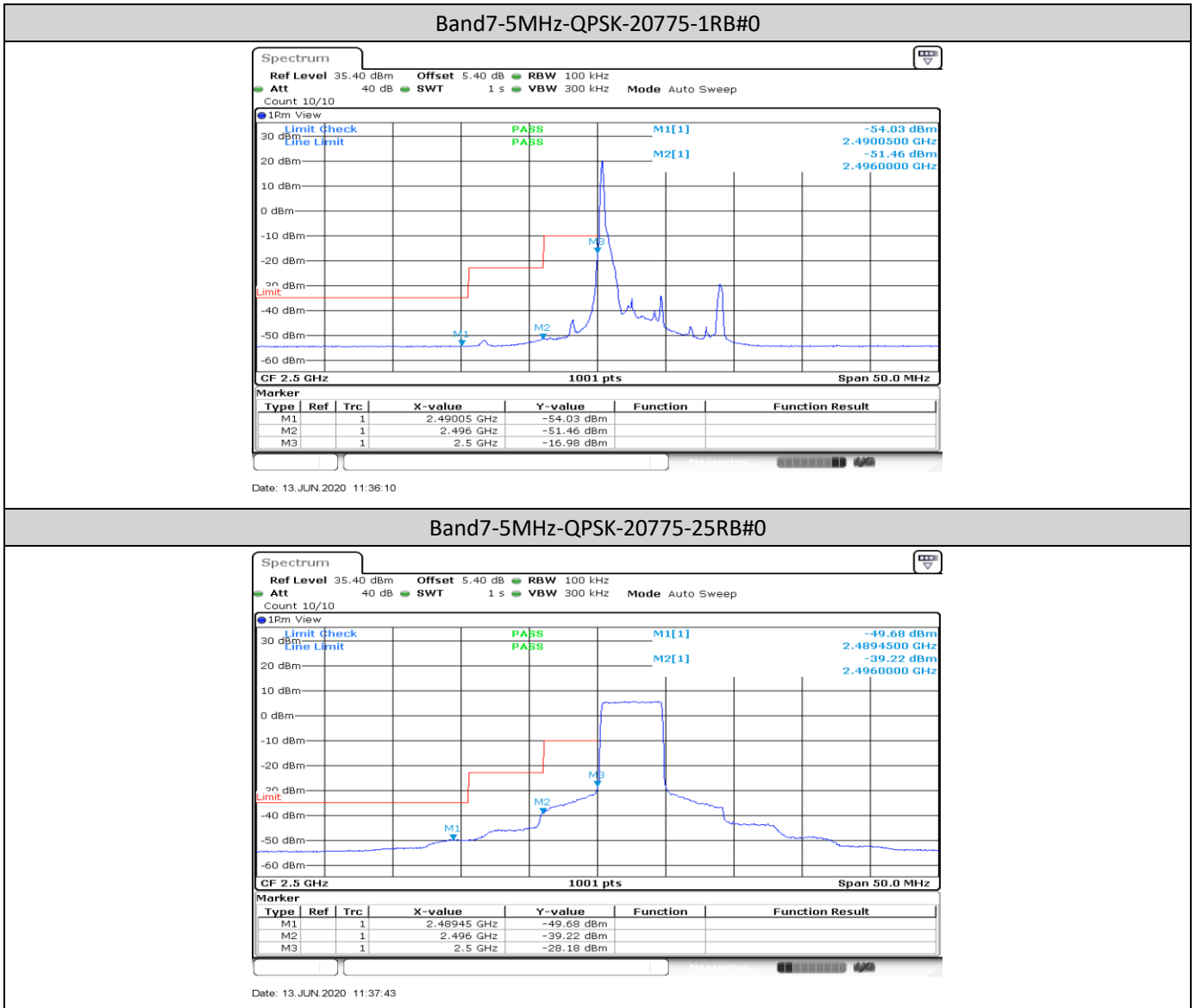
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5. Band Edge Compliance

5.1. Test Plots

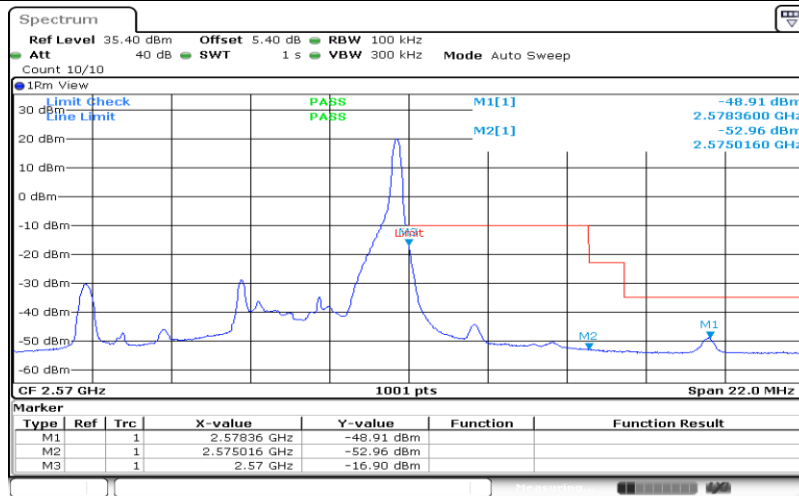


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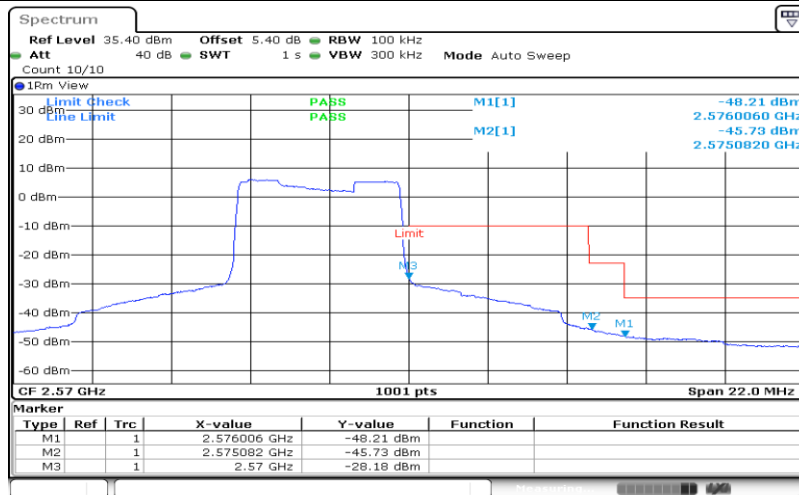
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Band7-5MHz-QPSK-21425-1RB#24



Date: 13 JUN 2020 11:36:57

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

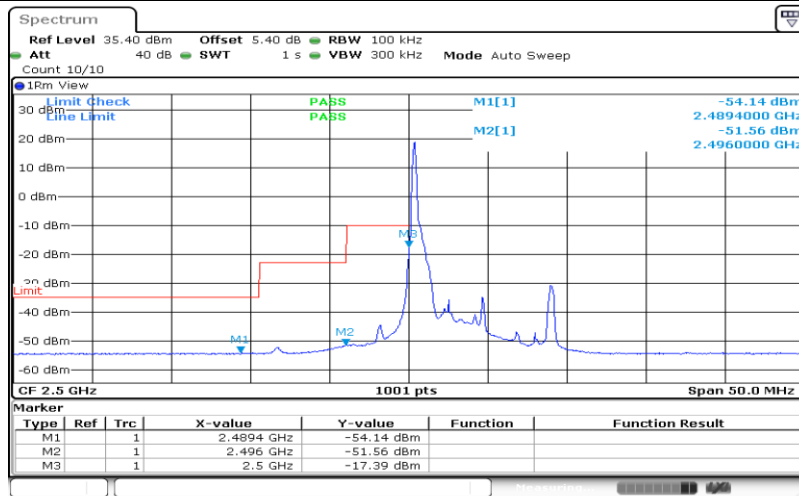


Date: 13 JUN 2020 11:38:26



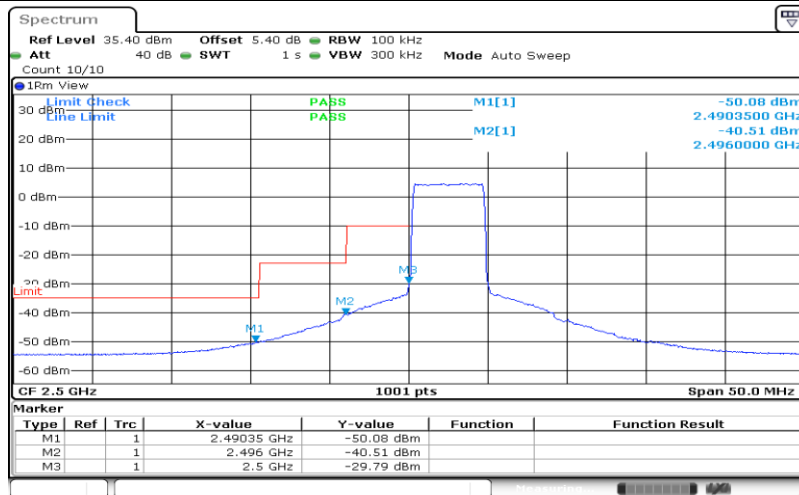
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Band7-5MHz-16QAM-20775-1RB#0



Date: 13 JUN 2020 11:36:31

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

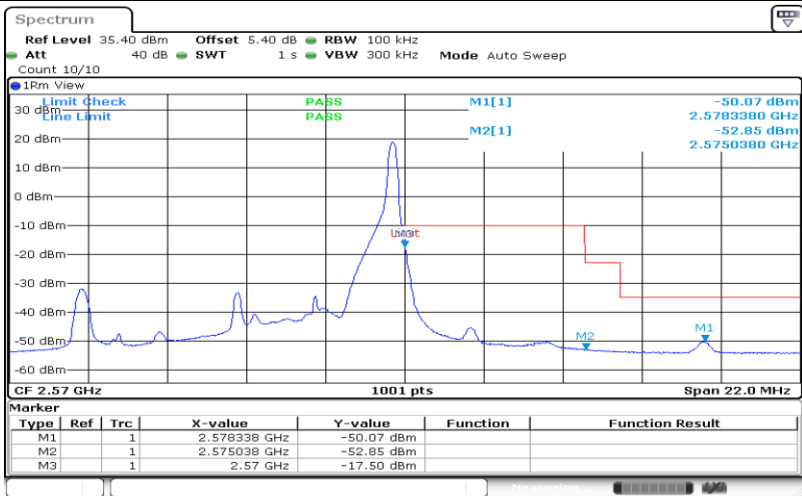


Date: 13 JUN 2020 11:38:04



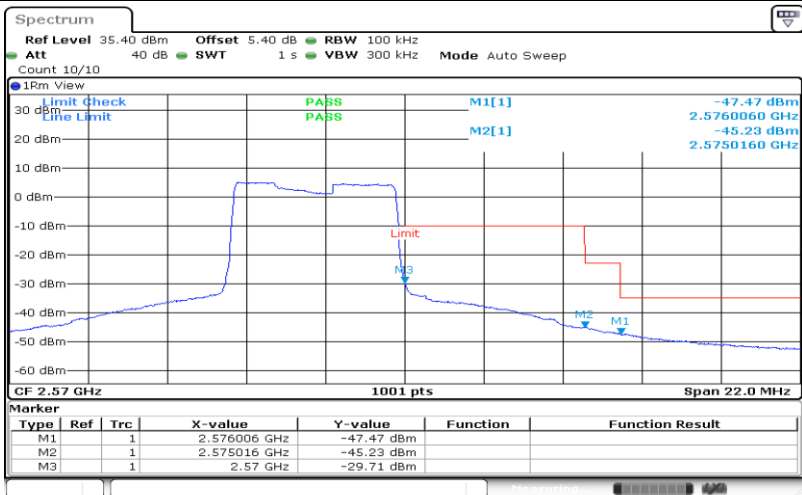
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Band7-5MHz-16QAM-21425-1RB#24



Date: 13 JUN 2020 11:37:18

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

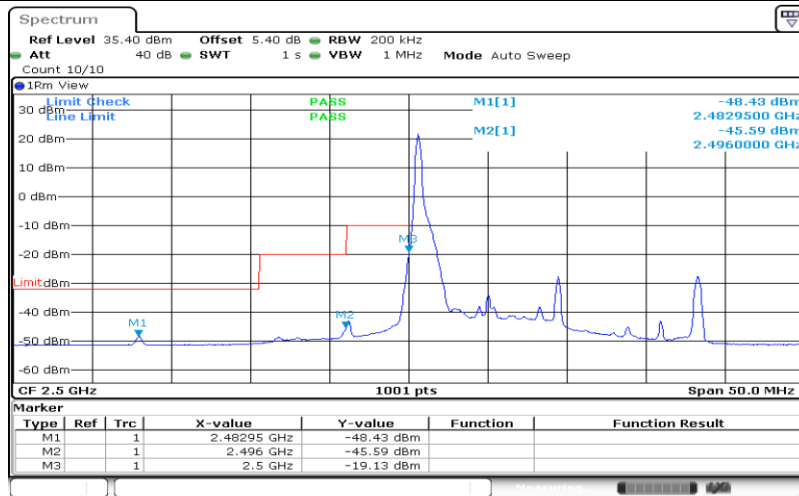


Date: 13 JUN 2020 11:38:46



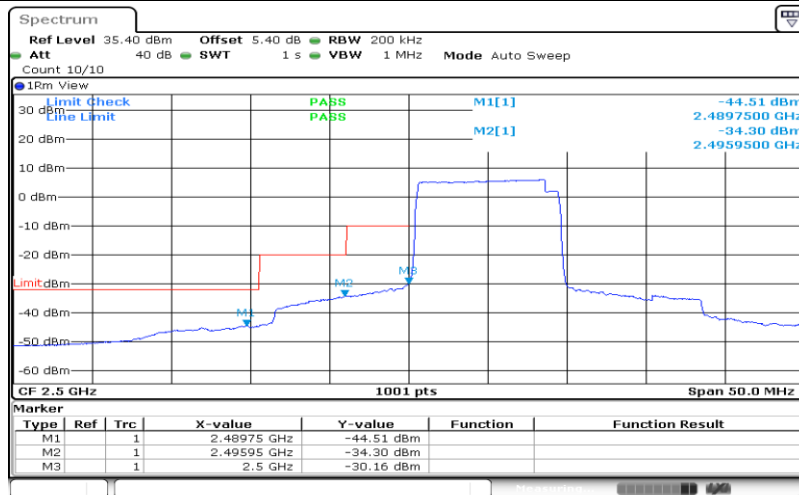
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Band7-10MHz-QPSK-20800-1RB#0



Date: 13 JUN 2020 11:39:12

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



Date: 13 JUN 2020 11:40:45

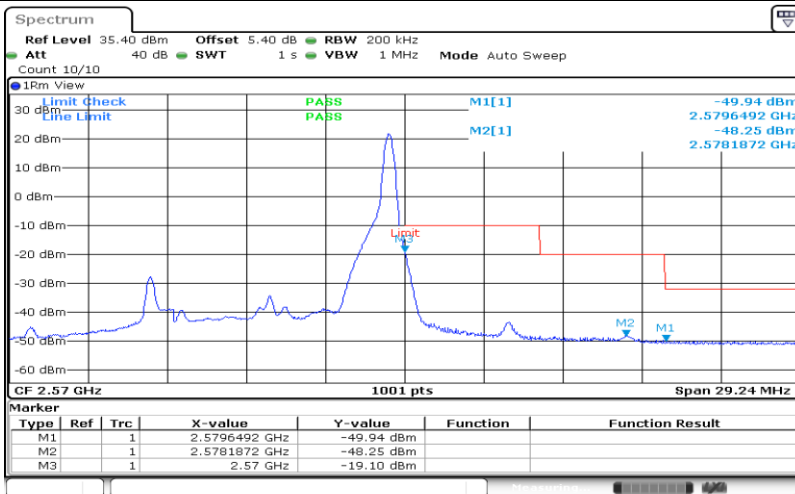


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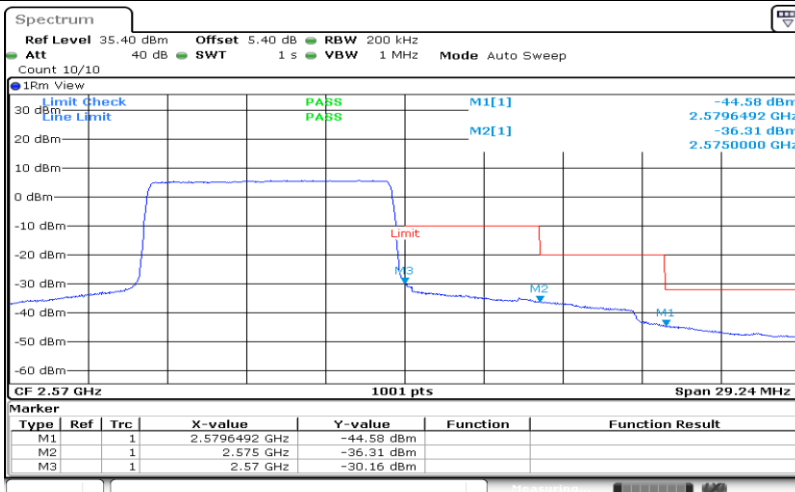
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Band7-10MHz-QPSK-21400-1RB#49



Date: 13 JUN 2020 11:39:59

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

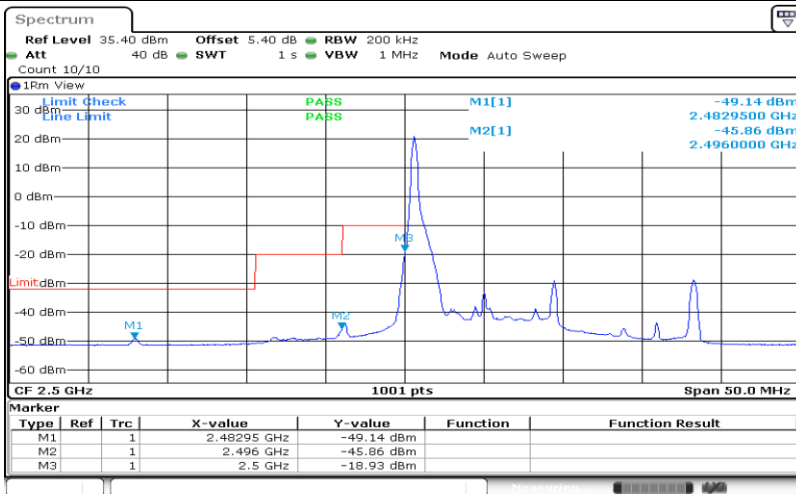


Date: 13 JUN 2020 11:41:28



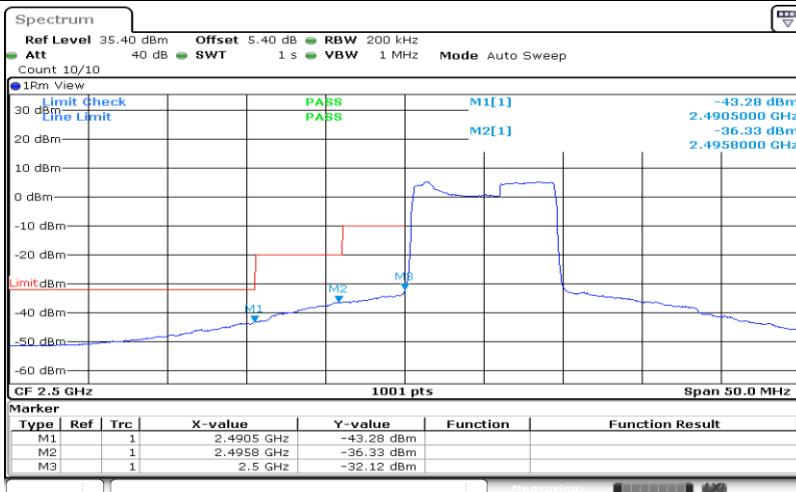
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Band7-10MHz-16QAM-20800-1RB#0



Date: 13 JUN 2020 11:39:33

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

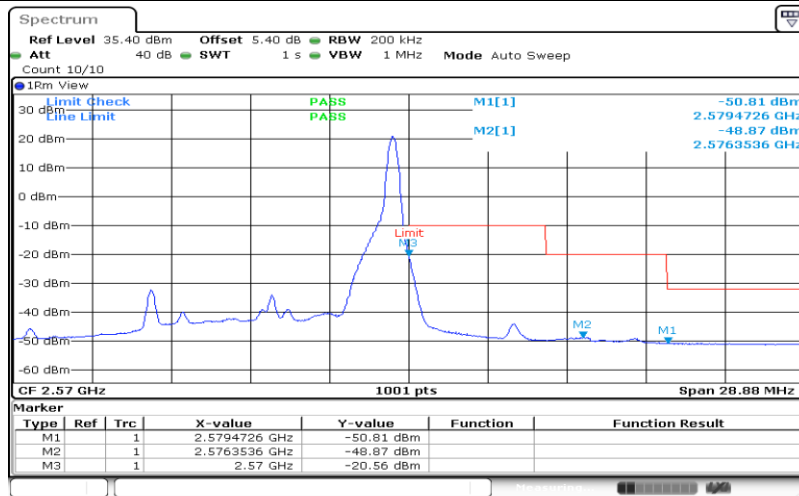


Date: 13 JUN 2020 11:41:07



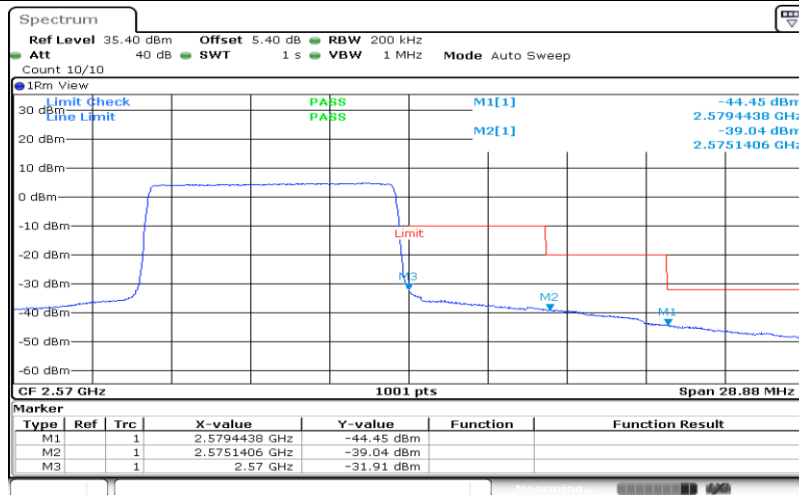
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Band7-10MHz-16QAM-21400-1RB#49



Date: 13 JUN 2020 11:40:20

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



Date: 13 JUN 2020 11:41:49

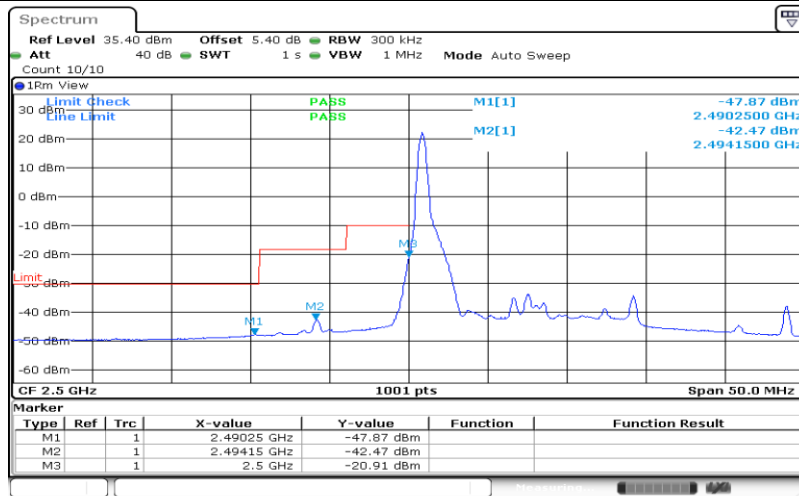


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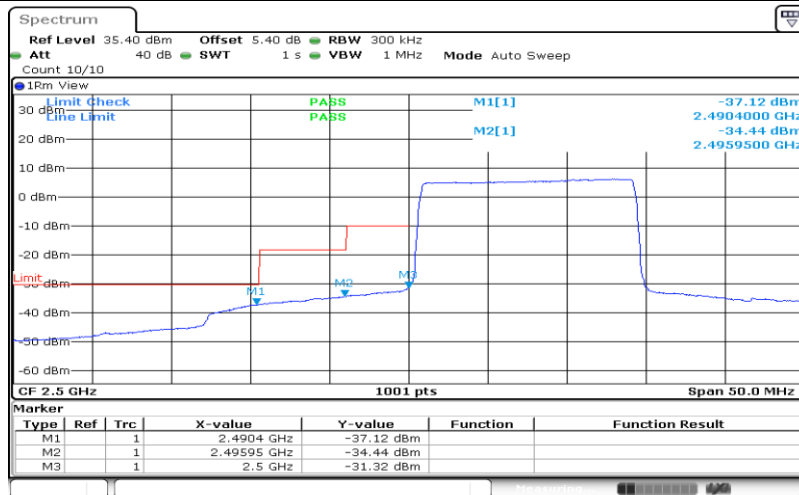
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Band7-15MHz-QPSK-20825-1RB#0



Date: 13 JUN 2020 11:42:15

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



Date: 13 JUN 2020 11:43:48

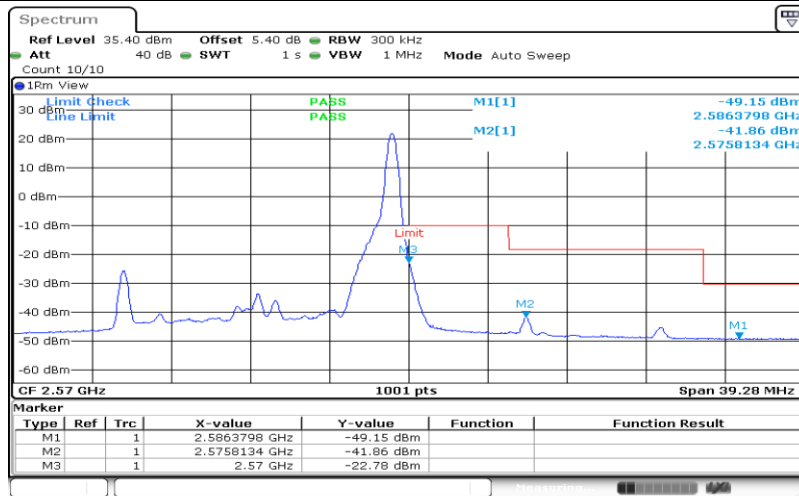


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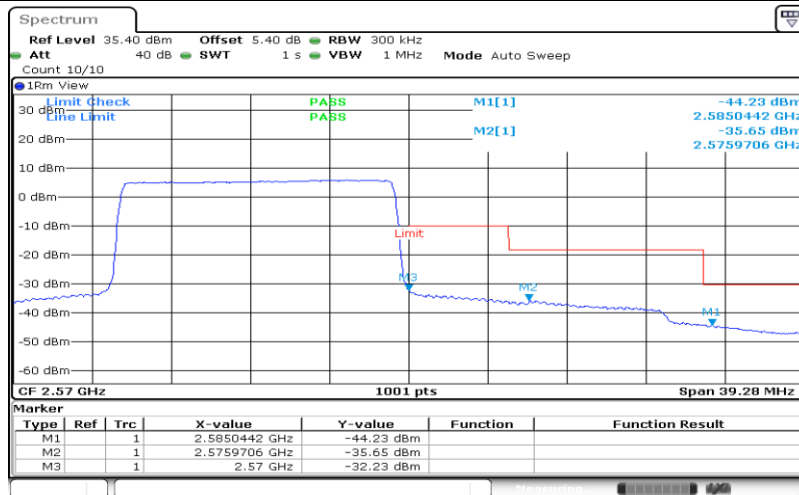
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Band7-15MHz-QPSK-21375-1RB#74



Date: 13 JUN 2020 11:43:01

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

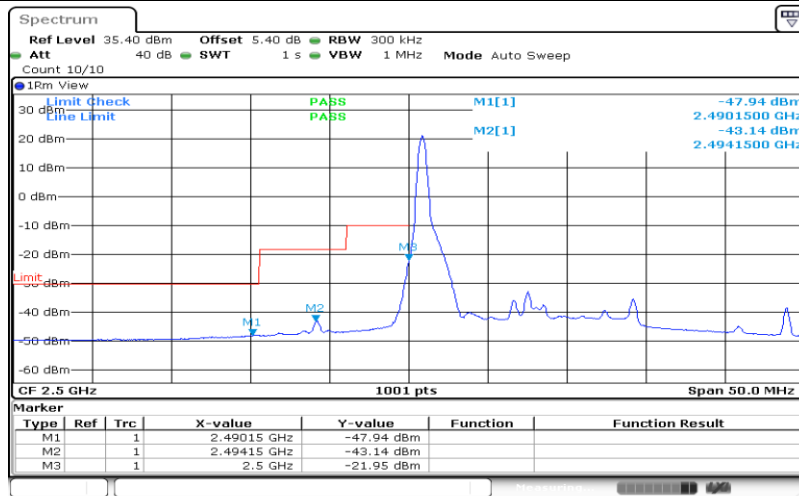


Date: 13 JUN 2020 11:44:30



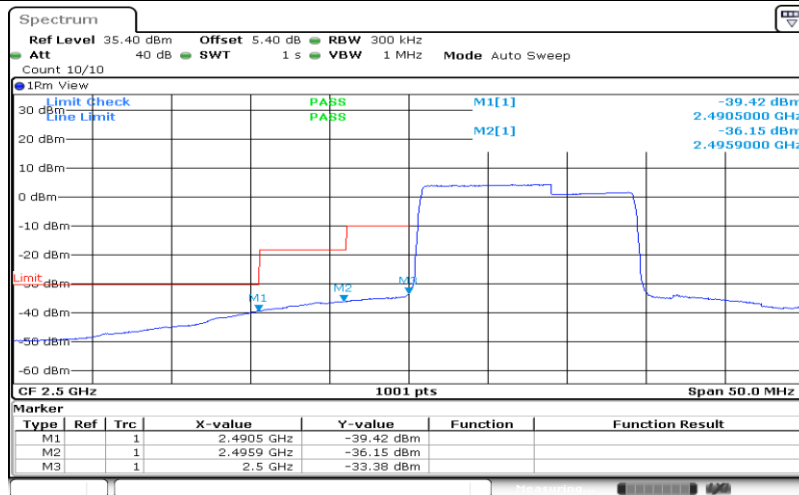
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Band7-15MHz-16QAM-20825-1RB#0



Date: 13 JUN 2020 11:42:36

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

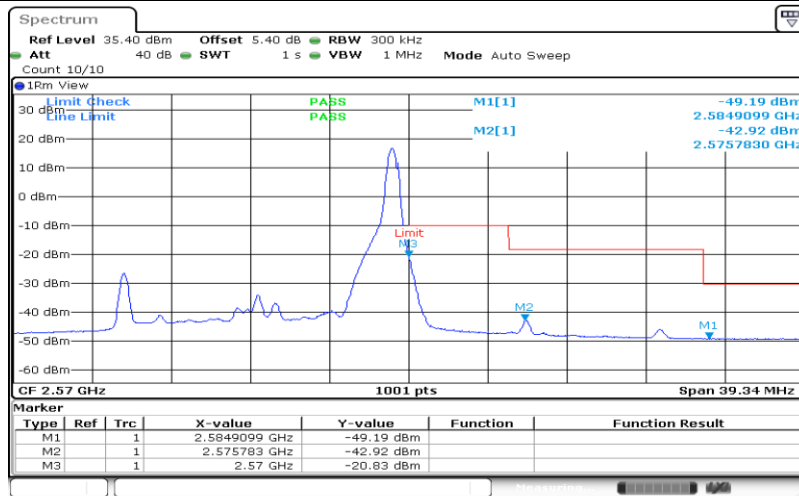


Date: 13 JUN 2020 11:44:09



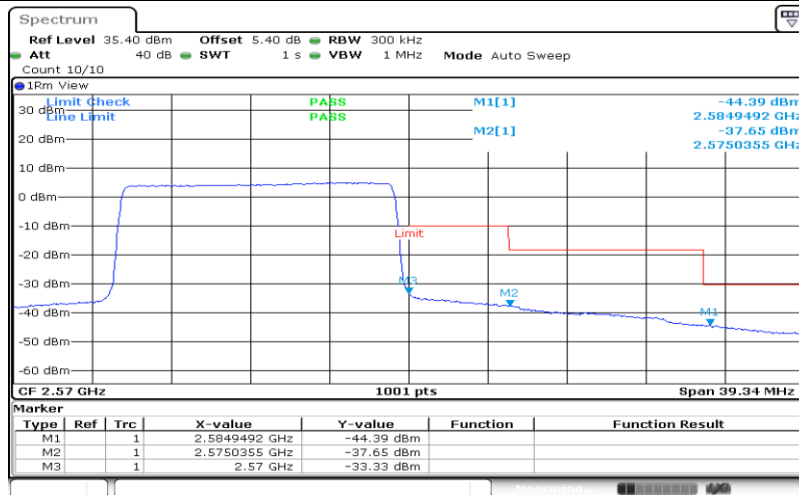
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Band7-15MHz-16QAM-21375-1RB#74



Date: 13 JUN 2020 11:43:22

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

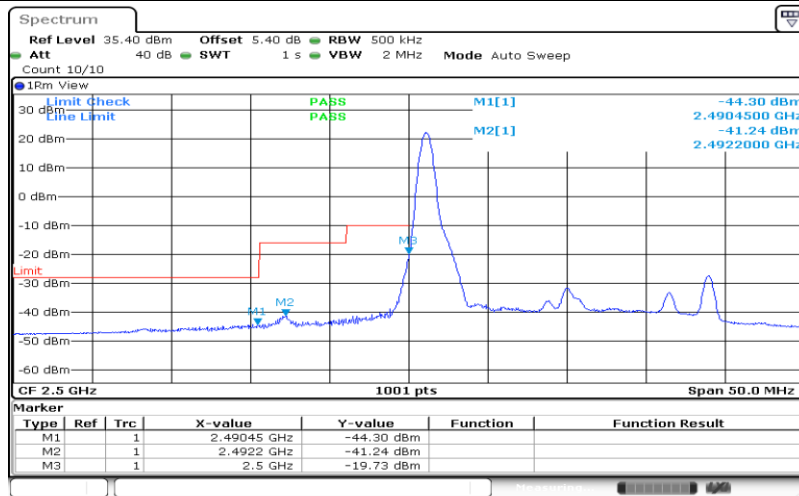


Date: 13 JUN 2020 11:44:51



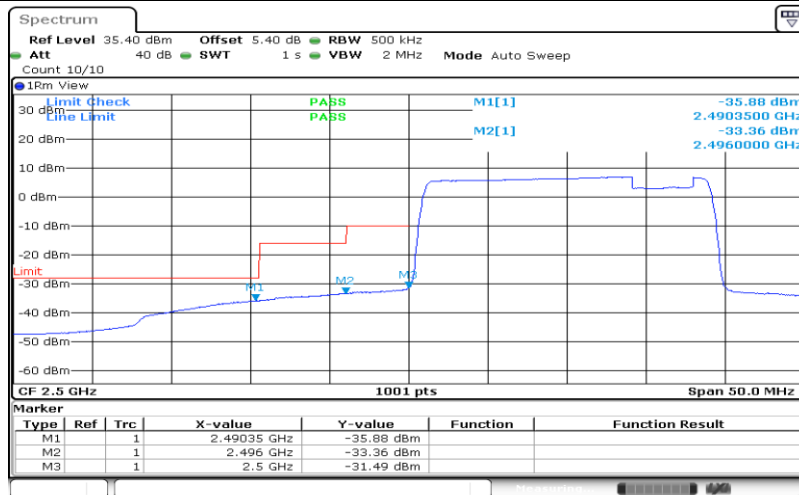
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Band7-20MHz-QPSK-20850-1RB#0



Date: 13 JUN 2020 11:45:17

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

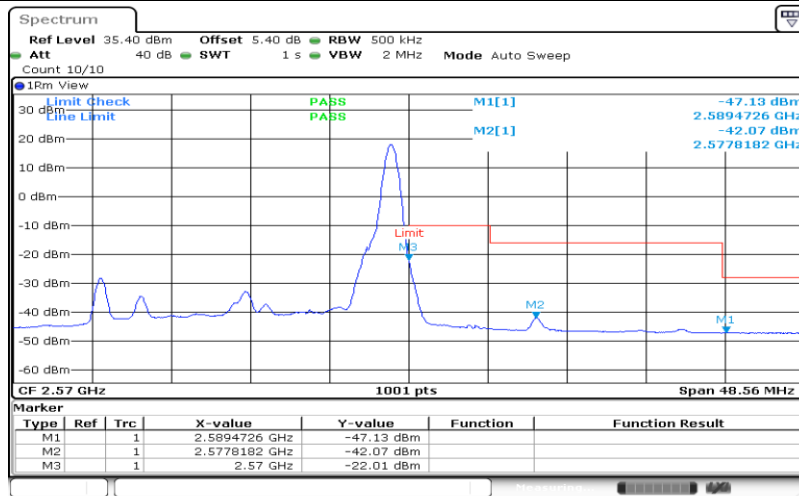


Date: 13 JUN 2020 11:46:50



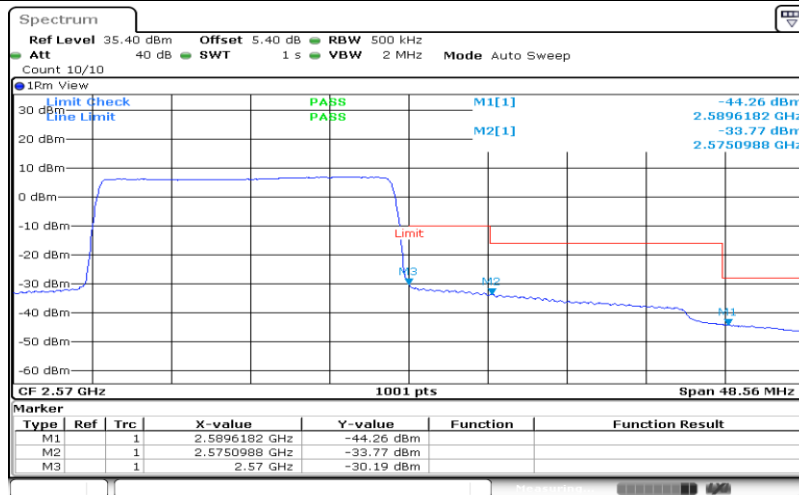
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Band7-20MHz-QPSK-21350-1RB#99



Date: 13 JUN 2020 11:46:04

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



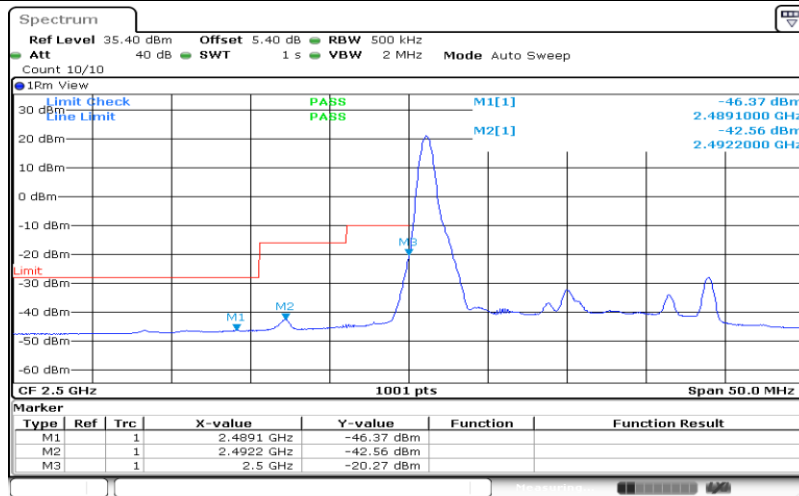
Date: 13 JUN 2020 11:47:33



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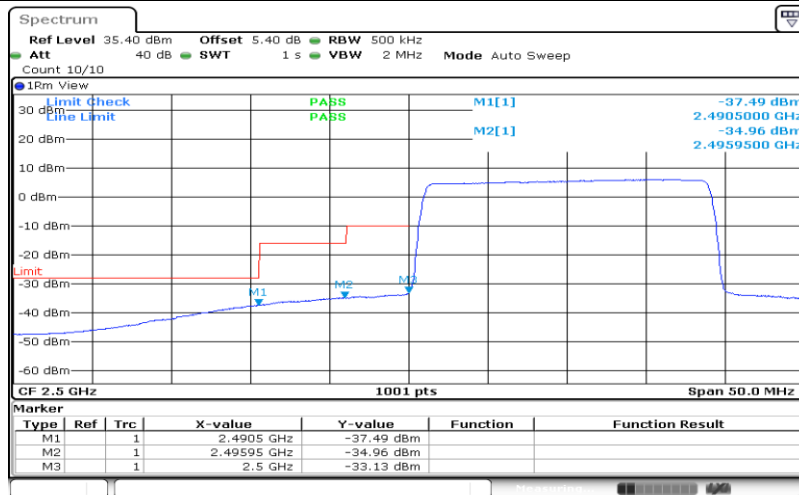
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Band7-20MHz-16QAM-20850-1RB#0



Date: 13 JUN 2020 11:45:38

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

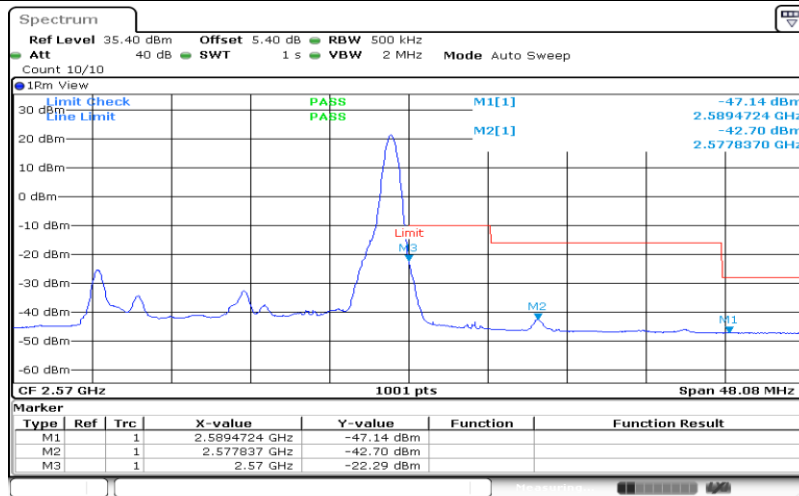


Date: 13 JUN 2020 11:47:11



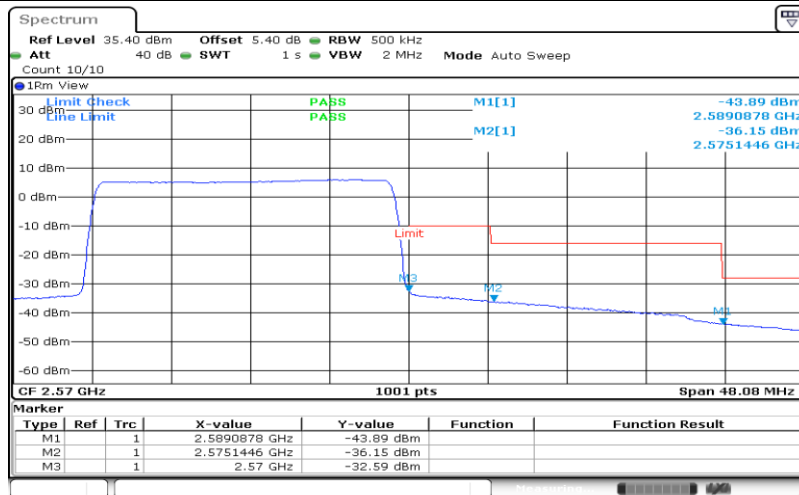
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Band7-20MHz-16QAM-21350-1RB#99



Date: 13 JUN 2020 11:46:25

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



Date: 13 JUN 2020 11:47:54



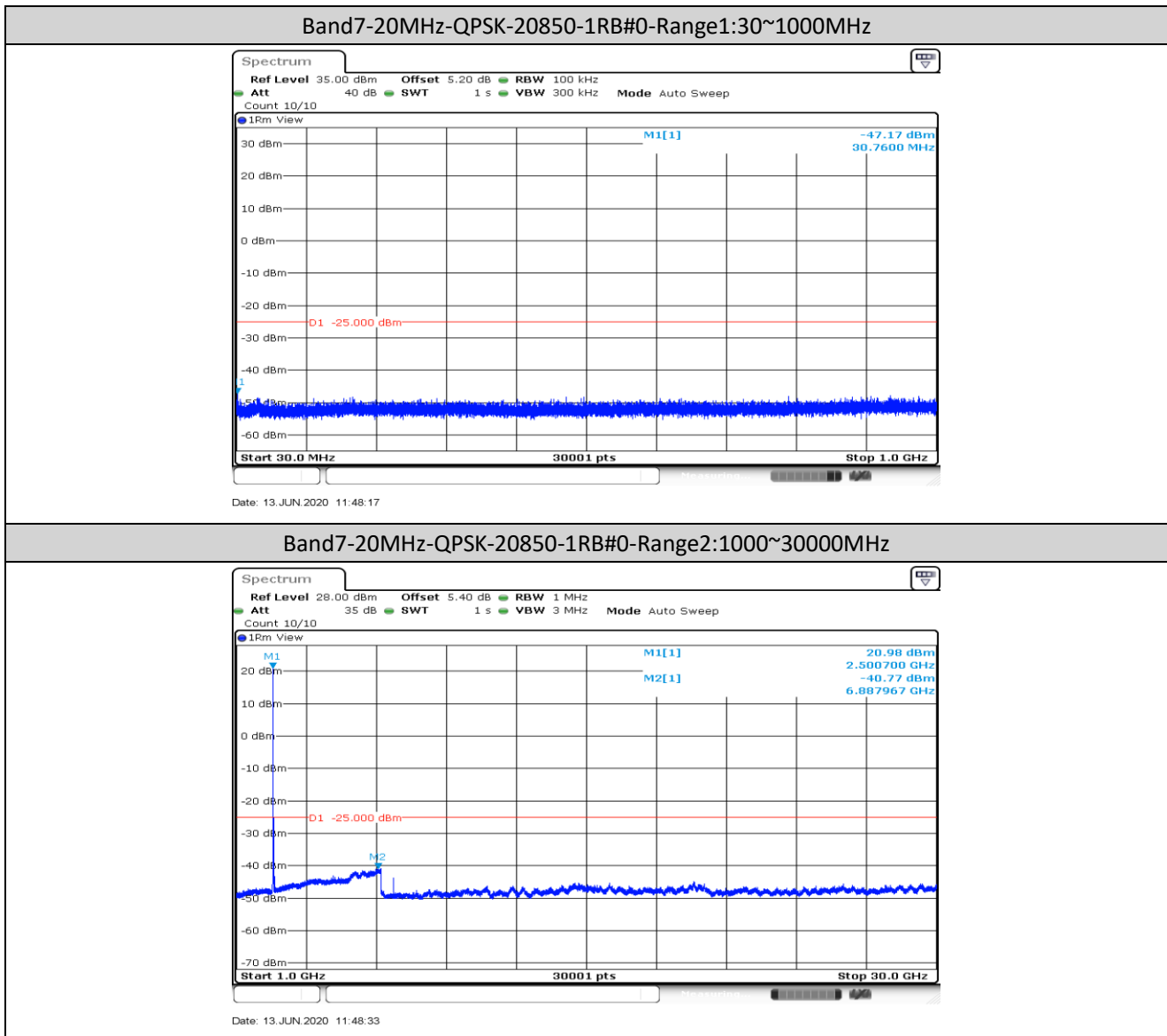
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6. Spurious Emission at Antenna Terminal

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: only the worst case data displayed in this report.

6.1. Test Plots

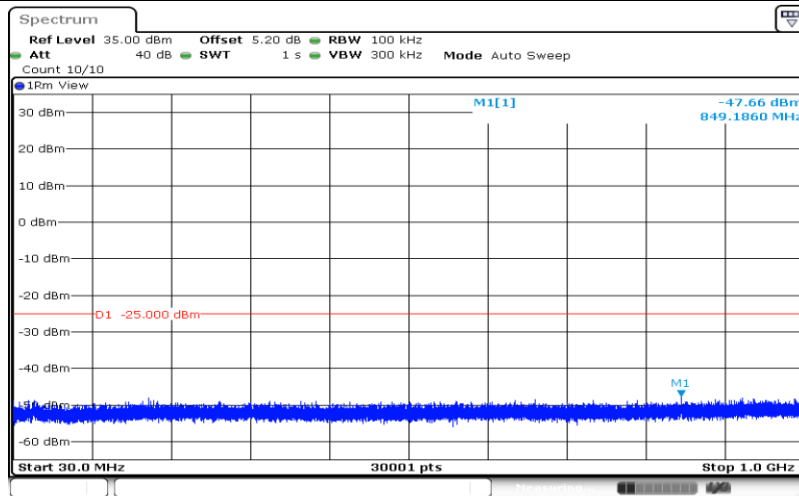


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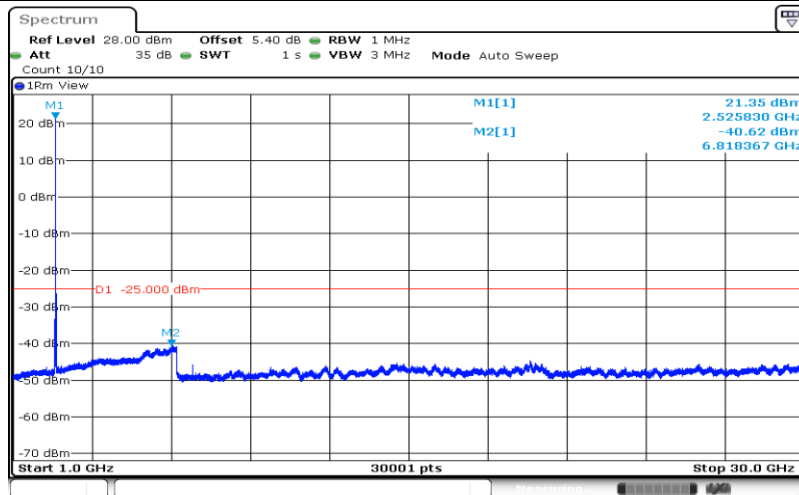
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Band7-20MHz-QPSK-21100-1RB#0-Range1:30~1000MHz



Date: 13 JUN 2020 11:49:28

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

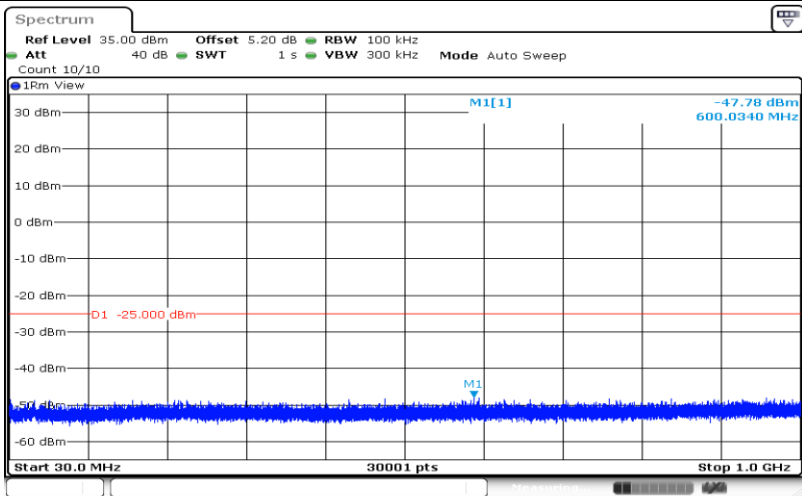


Date: 13 JUN 2020 11:49:44



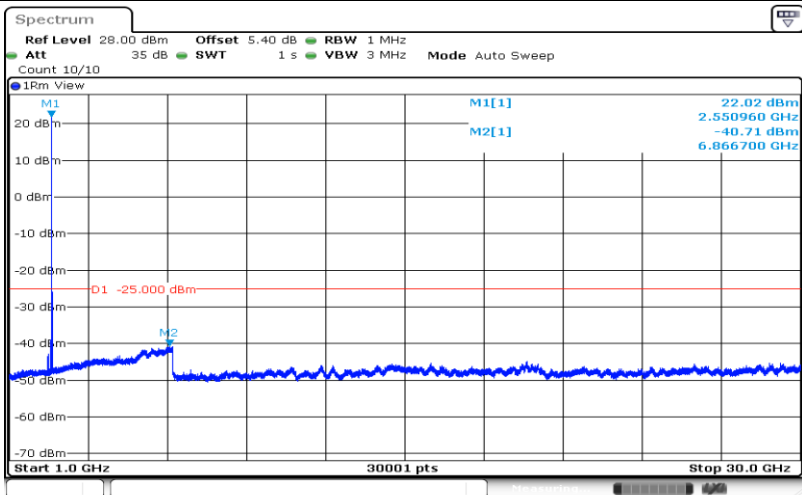
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Band7-20MHz-QPSK-21350-1RB#0-Range1:30~1000MHz



Date: 13 JUN 2020 11:50:38

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

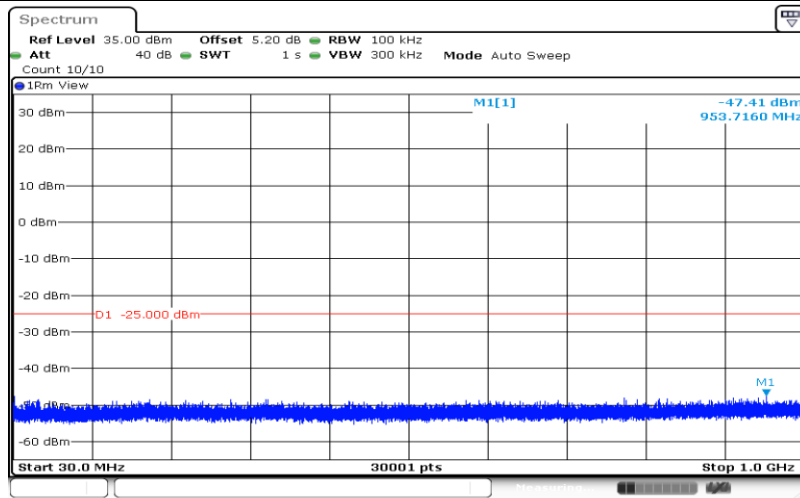


Date: 13 JUN 2020 11:50:54



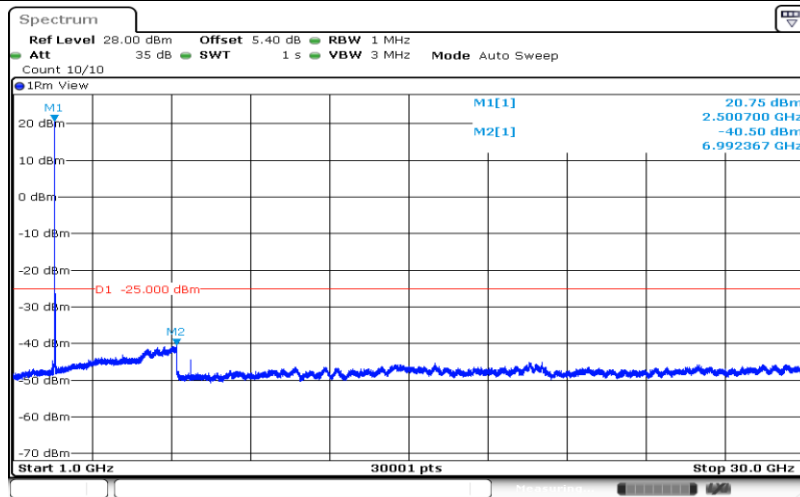
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Band7-20MHz-16QAM-20850-1RB#0-Range1:30~1000MHz



Date: 13 JUN 2020 11:48:52

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



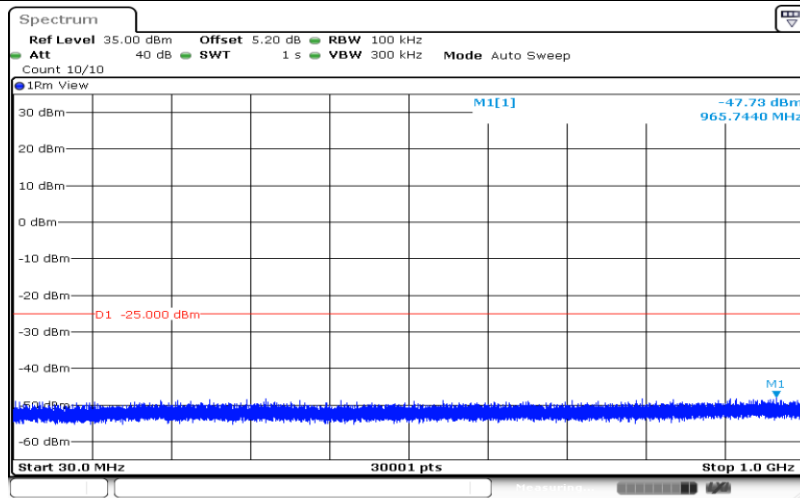
Date: 13 JUN 2020 11:49:08



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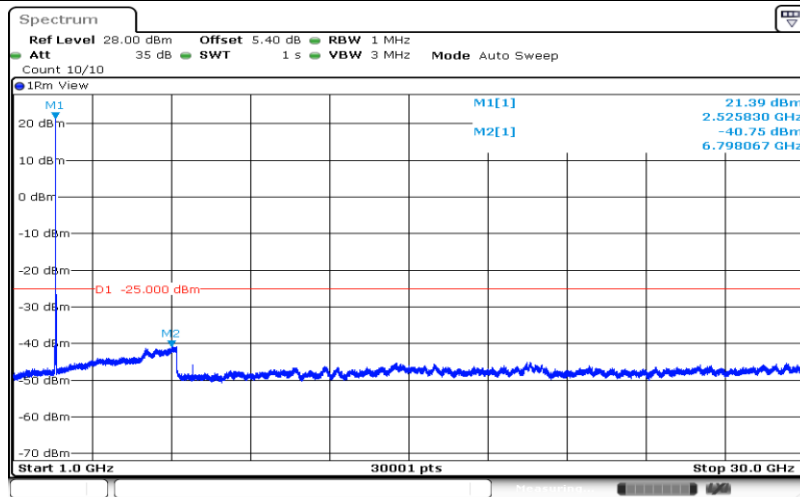


Band7-20MHz-16QAM-21100-1RB#0-Range1:30~1000MHz



Date: 13 JUN 2020 11:50:03

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

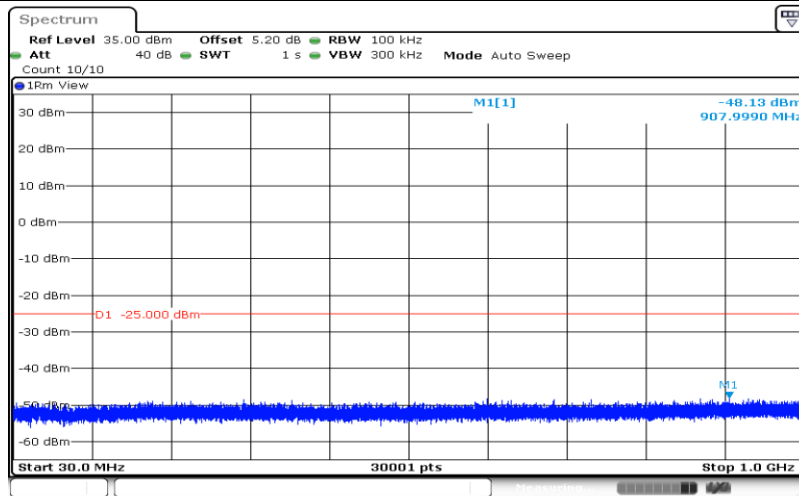


Date: 13 JUN 2020 11:50:19



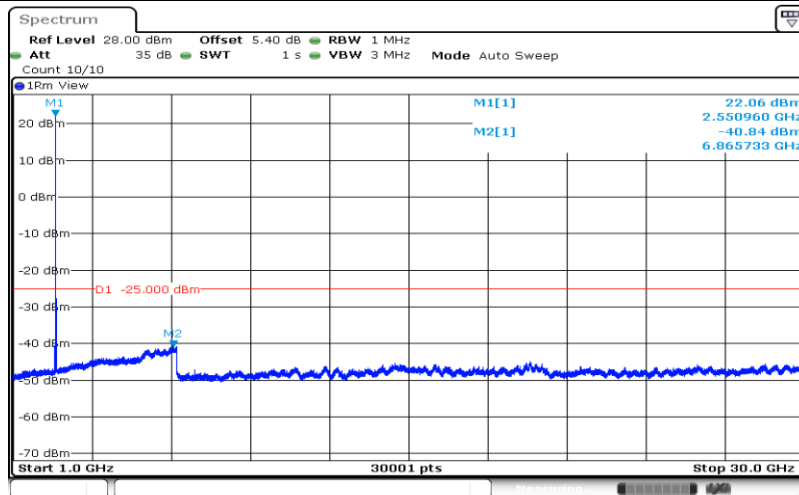
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Band7-20MHz-16QAM-21350-1RB#0-Range1:30~1000MHz



Date: 13 JUN 2020 11:51:12

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



Date: 13 JUN 2020 11:51:29



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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
51.7776	-73.13	-25.00	48.13	Vertical
112.9391	-65.48	-25.00	40.48	Vertical
561.7806	-66.66	-25.00	41.66	Vertical
1749.7500	-43.17	-25.00	18.17	Vertical
9022.4409	-56.10	-25.00	31.10	Vertical
17996.9999	-42.65	-25.00	17.65	Vertical
43.7747	-64.90	-25.00	39.90	Horizontal
230.9455	-68.54	-25.00	43.54	Horizontal
405.5543	-68.44	-25.00	43.44	Horizontal
2985.9972	-39.56	-25.00	14.56	Horizontal
7458.1783	-58.86	-25.00	33.86	Horizontal
16399.7360	-45.90	-25.00	20.90	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.9345	-72.87	-25.00	47.87	Vertical
111.3871	-65.77	-25.00	40.77	Vertical
438.0024	-67.84	-25.00	42.84	Vertical
2979.1958	-39.58	-25.00	14.58	Vertical
7430.5772	-58.16	-25.00	33.16	Vertical
17998.1999	-42.58	-25.00	17.58	Vertical
40.1370	-65.20	-25.00	40.20	Horizontal
242.7801	-68.97	-25.00	43.97	Horizontal
528.8959	-66.61	-25.00	41.61	Horizontal
1521.3043	-47.48	-25.00	22.48	Horizontal
7457.5783	-58.61	-25.00	33.61	Horizontal
16389.5356	-45.93	-25.00	20.93	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.4980	-72.42	-25.00	47.42	Vertical
117.9834	-65.45	-25.00	40.45	Vertical
570.9961	-66.51	-25.00	41.51	Vertical
2939.1878	-39.48	-25.00	14.48	Vertical
8829.8332	-57.18	-25.00	32.18	Vertical
17987.3995	-42.51	-25.00	17.51	Vertical
44.4052	-64.79	-25.00	39.79	Horizontal
236.7173	-69.18	-25.00	44.18	Horizontal
508.2824	-66.44	-25.00	41.44	Horizontal
1750.5501	-44.08	-25.00	19.08	Horizontal
6544.9418	-61.89	-25.00	36.89	Horizontal
16391.3357	-45.41	-25.00	20.41	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 Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	-6.00	-0.002390	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	-1.90	-0.000757	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	-0.80	-0.000319	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-14.80	-0.005838	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-1.20	-0.000473	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-0.90	-0.000355	±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	4.00	0.001563	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	-8.30	-0.003242	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	-6.80	-0.002709	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	-15.50	-0.006175	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	-11.80	-0.004701	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	5.60	0.002209	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	-6.70	-0.002643	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	9.50	0.003748	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	-8.80	-0.003438	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	13.50	0.005273	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	-9.30	-0.003633	±2.5	PASS



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8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	NV	-30	-8.30	-0.003307	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	5.50	0.002191	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	-8.90	-0.003546	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	-10.30	-0.004104	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	-7.10	-0.002829	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	-5.10	-0.002032	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	-9.80	-0.003904	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	8.80	0.003506	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-16.00	-0.006312	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	4.40	0.001736	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	7.90	0.003116	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	2.00	0.000789	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-8.80	-0.003471	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-1.60	-0.000631	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	6.00	0.002367	±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	-8.60	-0.003359	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	10.00	0.003906	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	-4.90	-0.001914	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-18.90	-0.007383	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	-14.20	-0.005547	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	5.20	0.002031	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	6.10	0.002383	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	-9.30	-0.003633	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	-3.80	-0.001514	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	11.40	0.004542	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	7.30	0.002908	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	2.20	0.000876	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	-12.10	-0.004821	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	1.70	0.000677	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	6.00	0.002390	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	-3.90	-0.001554	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	6.00	0.002367	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	-11.30	-0.004458	±2.5	PASS



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Band7	20MHz	16QAM	21100	100RB#0	NV	0	-9.90	-0.003905	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	-14.50	-0.005720	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	4.40	0.001736	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	-4.10	-0.001617	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	-2.70	-0.001065	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	-1.60	-0.000631	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	-6.90	-0.002695	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-20	-7.50	-0.002930	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	2.40	0.000938	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	-10.30	-0.004023	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	-2.60	-0.001016	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	1.70	0.000664	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	40	-4.80	-0.001875	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	-2.30	-0.000898	±2.5	PASS



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