

Appendix B

E-UTRA Band 7



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	21.61	15.61	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	21.77	15.77	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	21.55	15.55	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	20.84	14.84	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	20.83	14.83	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	20.71	14.71	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	20.83	14.83	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	21.57	15.57	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.04	16.04	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	21.59	15.59	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	20.8	14.8	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	20.74	14.74	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	20.76	14.76	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	20.73	14.73	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	21.51	15.51	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	21.91	15.91	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	21.69	15.69	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	20.91	14.91	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	20.92	14.92	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	20.97	14.97	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	20.98	14.98	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	20.65	14.65	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	20.94	14.94	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	20.53	14.53	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	19.9	13.9	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	19.96	13.96	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	19.85	13.85	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.05	14.05	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	20.71	14.71	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	20.55	14.55	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	20.34	14.34	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	19.7	13.7	33.00	PASS



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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band7	5MHz	16QAM	21100	12RB#6	19.71	13.71	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	19.7	13.7	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	19.78	13.78	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.06	15.06	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	20.78	14.78	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	20.74	14.74	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#0	19.52	13.52	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	20.03	14.03	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	19.97	13.97	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.15	14.15	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	21.79	15.79	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	21.93	15.93	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	21.69	15.69	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	20.91	14.91	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	20.77	14.77	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	20.83	14.83	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	20.88	14.88	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	21.78	15.78	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	21.98	15.98	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	21.53	15.53	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	20.78	14.78	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	20.82	14.82	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	20.85	14.85	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	20.82	14.82	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	21.86	15.86	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.02	16.02	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	21.9	15.9	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	21	15	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	20.9	14.9	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	20.94	14.94	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.04	15.04	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	20.75	14.75	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	20.85	14.85	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	20.87	14.87	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	19.91	13.91	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	19.79	13.79	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	19.89	13.89	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	19.91	13.91	33.00	PASS



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Band7	10MHz	16QAM	21100	1RB#0	20.75	14.75	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.15	15.15	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.03	15.03	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	20.07	14.07	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	19.61	13.61	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	20.11	14.11	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	19.82	13.82	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.16	15.16	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	21	15	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	20.89	14.89	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	20.12	14.12	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	19.9	13.9	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	20.2	14.2	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	19.98	13.98	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	21.87	15.87	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	21.94	15.94	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	21.78	15.78	33.00	PASS
Band7	15MHz	QPSK	20825	38RB#0	20.88	14.88	33.00	PASS
Band7	15MHz	QPSK	20825	38RB#18	20.91	14.91	33.00	PASS
Band7	15MHz	QPSK	20825	38RB#37	20.95	14.95	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	20.88	14.88	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	21.81	15.81	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	21.74	15.74	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	21.89	15.89	33.00	PASS
Band7	15MHz	QPSK	21100	38RB#0	20.68	14.68	33.00	PASS
Band7	15MHz	QPSK	21100	38RB#18	20.76	14.76	33.00	PASS
Band7	15MHz	QPSK	21100	38RB#37	20.78	14.78	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	20.74	14.74	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	21.84	15.84	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	21.79	15.79	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	21.93	15.93	33.00	PASS
Band7	15MHz	QPSK	21375	38RB#0	20.91	14.91	33.00	PASS
Band7	15MHz	QPSK	21375	38RB#18	21.01	15.01	33.00	PASS
Band7	15MHz	QPSK	21375	38RB#37	20.92	14.92	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.03	15.03	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	20.72	14.72	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	20.79	14.79	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	20.76	14.76	33.00	PASS



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Band7	15MHz	16QAM	20825	38RB#0	19.87	13.87	33.00	PASS
Band7	15MHz	16QAM	20825	38RB#18	19.89	13.89	33.00	PASS
Band7	15MHz	16QAM	20825	38RB#37	19.93	13.93	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	20	14	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	20.37	14.37	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	20.74	14.74	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	20.91	14.91	33.00	PASS
Band7	15MHz	16QAM	21100	38RB#0	19.6	13.6	33.00	PASS
Band7	15MHz	16QAM	21100	38RB#18	19.72	13.72	33.00	PASS
Band7	15MHz	16QAM	21100	38RB#37	19.71	13.71	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	19.83	13.83	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	20.85	14.85	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.12	15.12	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.2	15.2	33.00	PASS
Band7	15MHz	16QAM	21375	38RB#0	19.94	13.94	33.00	PASS
Band7	15MHz	16QAM	21375	38RB#18	19.98	13.98	33.00	PASS
Band7	15MHz	16QAM	21375	38RB#37	19.91	13.91	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.08	14.08	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	21.66	15.66	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.02	16.02	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	21.85	15.85	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	20.94	14.94	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	20.91	14.91	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	20.87	14.87	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	20.79	14.79	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	21.43	15.43	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	21.9	15.9	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	21.84	15.84	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	20.72	14.72	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	20.78	14.78	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	20.77	14.77	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	20.73	14.73	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.13	16.13	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.22	16.22	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.16	16.16	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	20.83	14.83	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	20.96	14.96	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	20.99	14.99	33.00	PASS



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Band7	20MHz	QPSK	21350	100RB#0	20.91	14.91	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	20.62	14.62	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	20.83	14.83	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	20.65	14.65	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	19.95	13.95	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	19.77	13.77	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	19.71	13.71	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	19.75	13.75	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	20.8	14.8	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	20.73	14.73	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	20.86	14.86	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#0	19.77	13.77	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#25	19.82	13.82	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	19.79	13.79	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	19.86	13.86	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	20.96	14.96	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.19	15.19	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.28	15.28	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	19.93	13.93	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	20.01	14.01	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	20.06	14.06	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	19.88	13.88	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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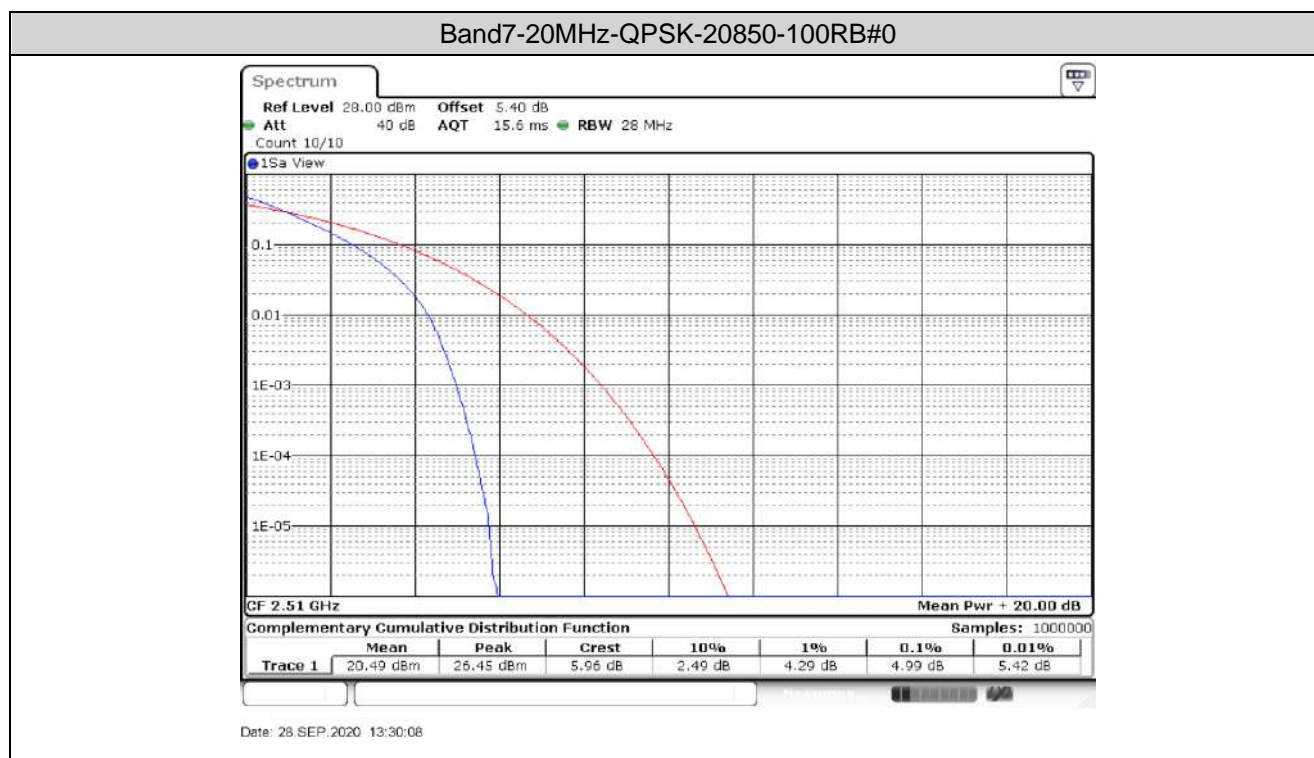


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	4.99	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.16	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	4.84	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.88	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.06	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.74	13	PASS

2.2. Test Plots

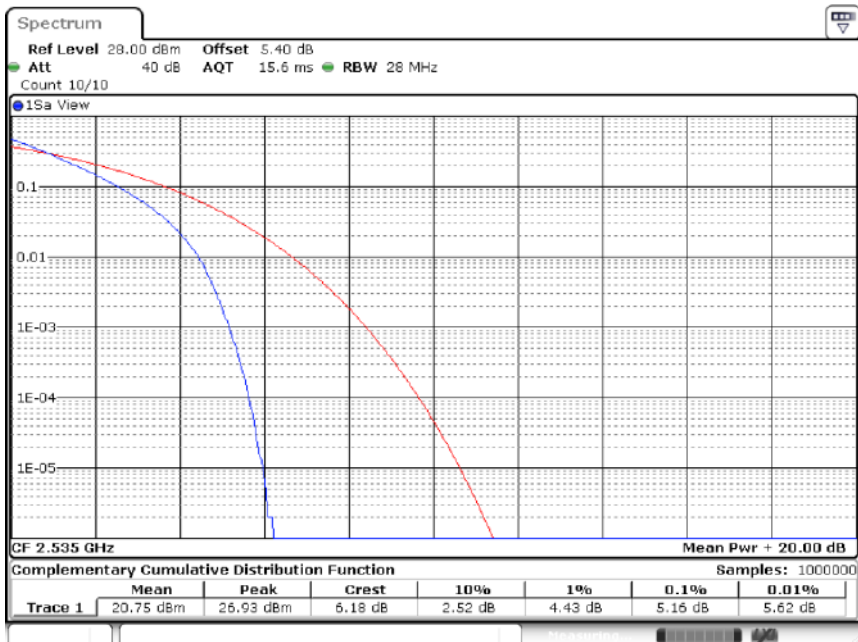


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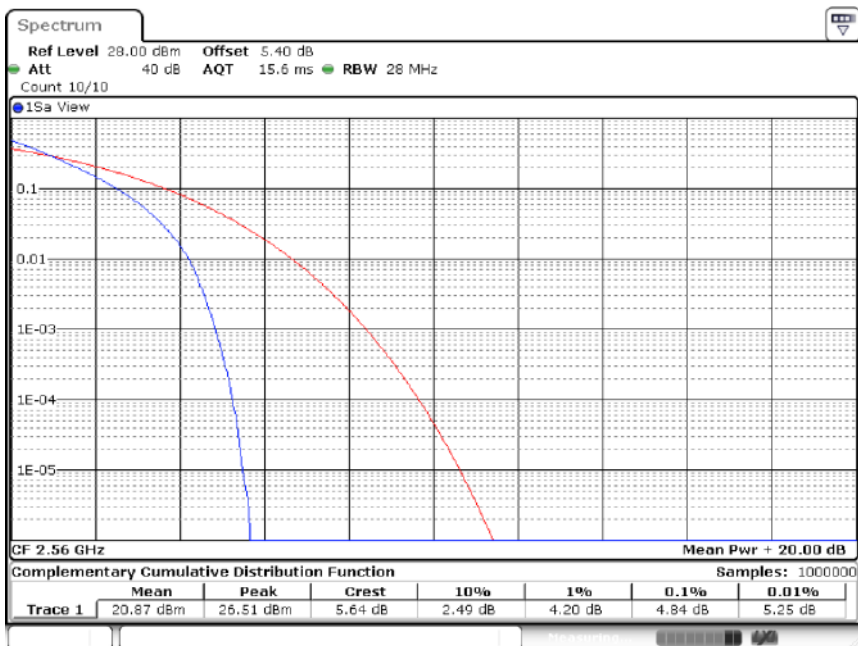
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Band7-20MHz-QPSK-21100-100RB#0



Date: 28 SEP.2020 13:30:36

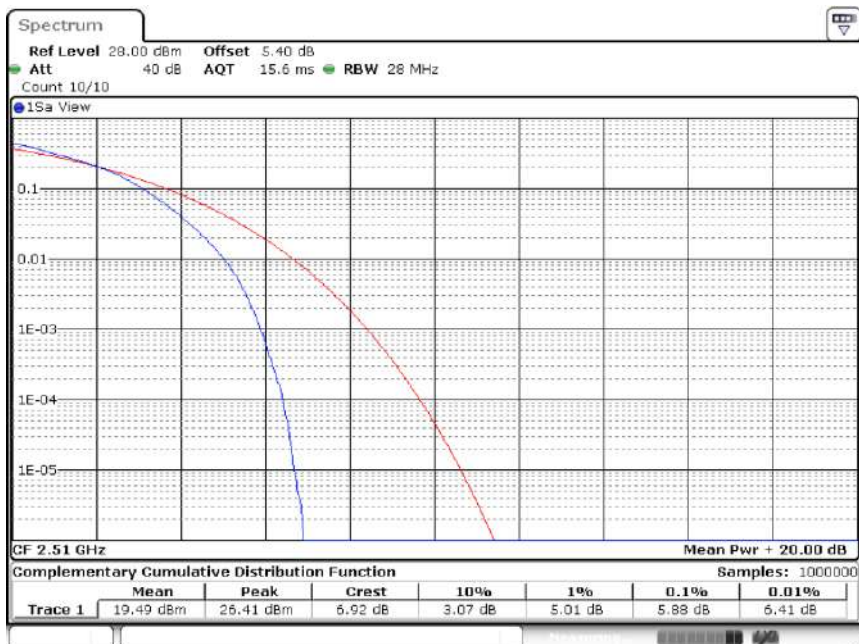
Band7-20MHz-QPSK-21350-100RB#0



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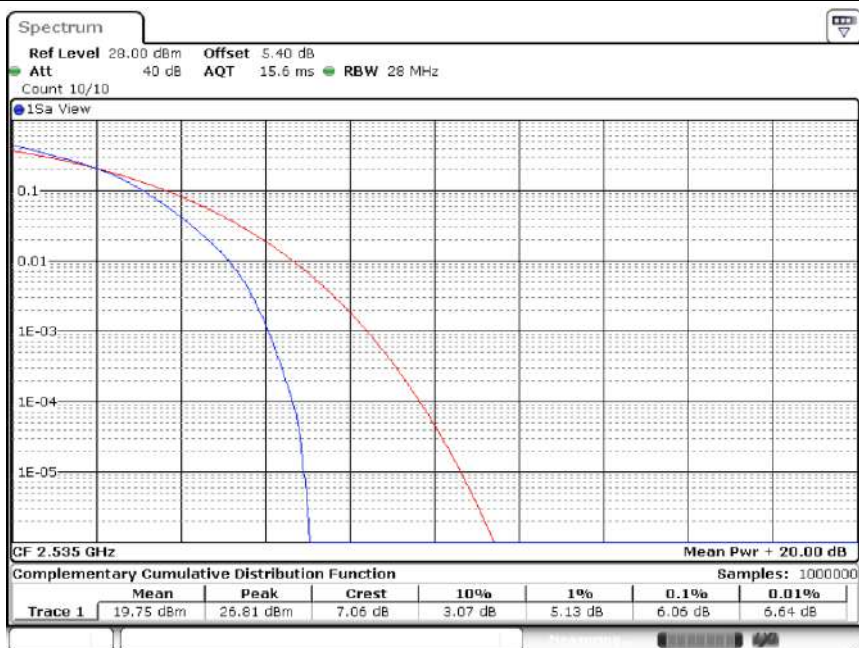


Band7-20MHz-16QAM-20850-100RB#0



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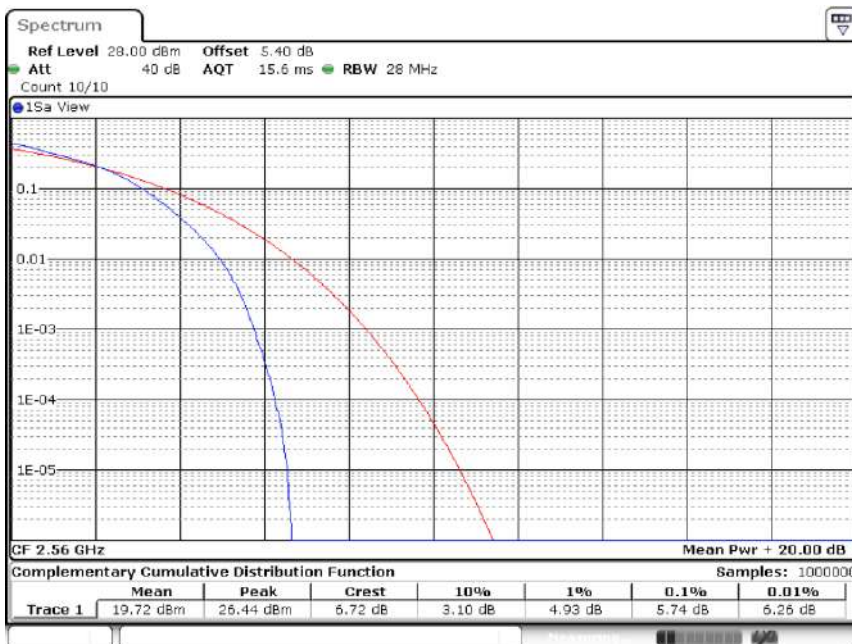
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Date: 28 SEP.2020 13:30:50



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



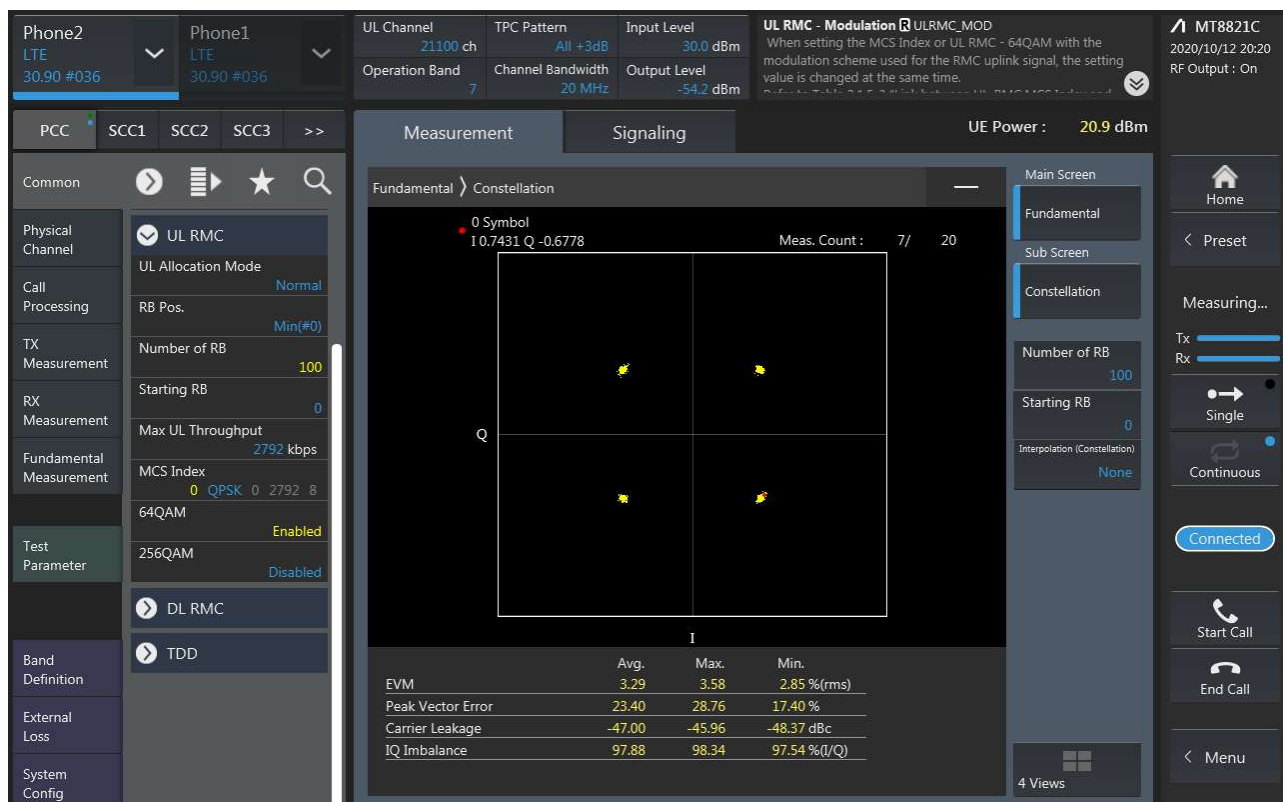
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH



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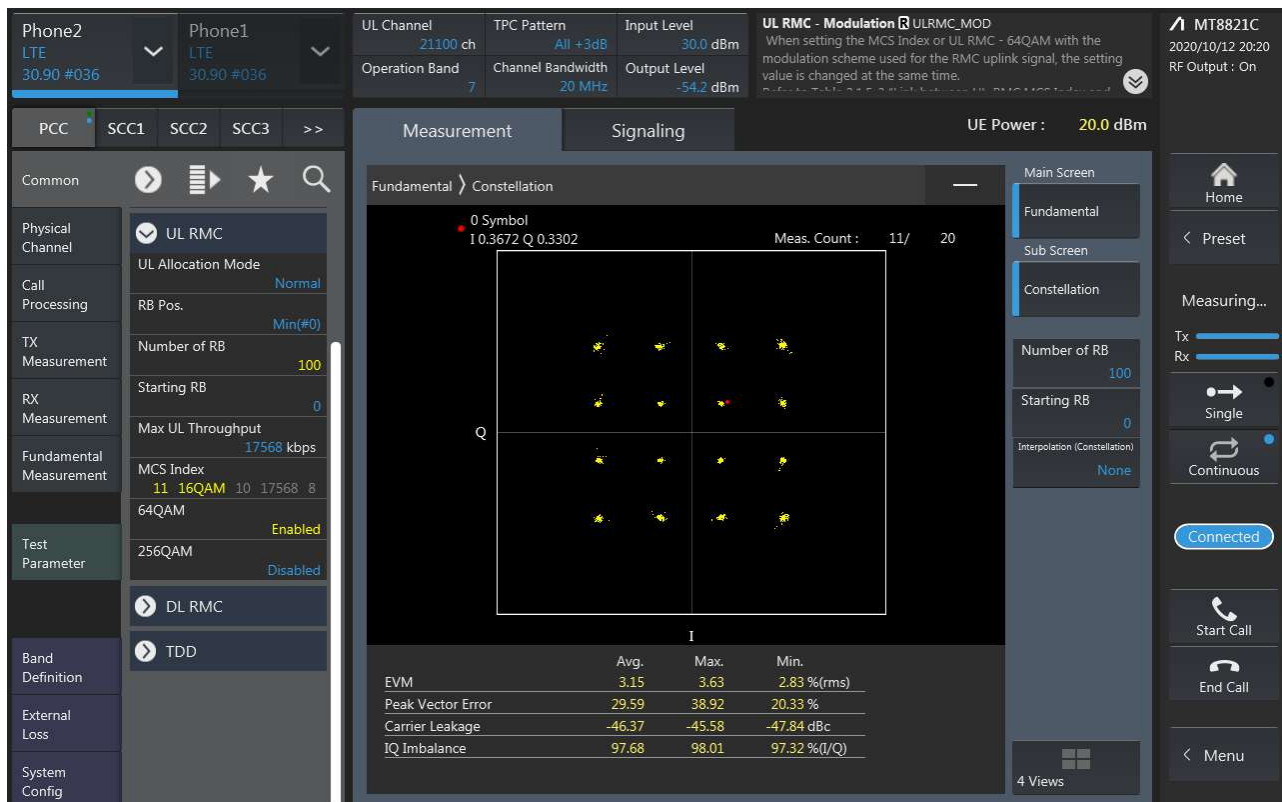
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3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.466	4.920	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.466	4.880	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	4.900	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.486	4.950	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.476	4.930	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.486	4.930	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.931	9.680	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.911	9.720	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.911	9.680	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	9.740	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.397	14.730	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.457	14.760	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.427	14.790	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.397	14.670	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.427	14.730	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.427	14.730	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.862	19.200	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.822	19.400	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.822	19.400	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.902	19.280	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.862	19.480	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.862	19.400	PASS



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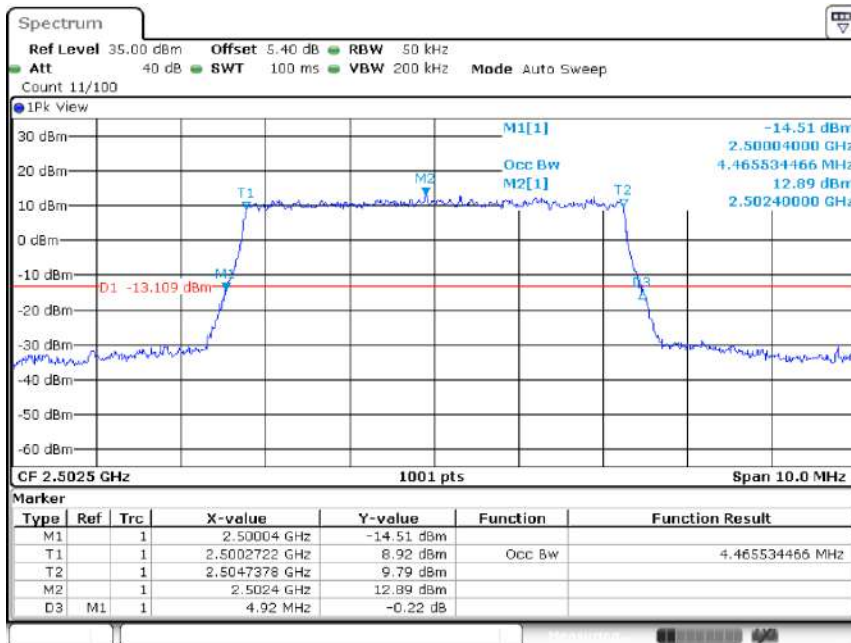
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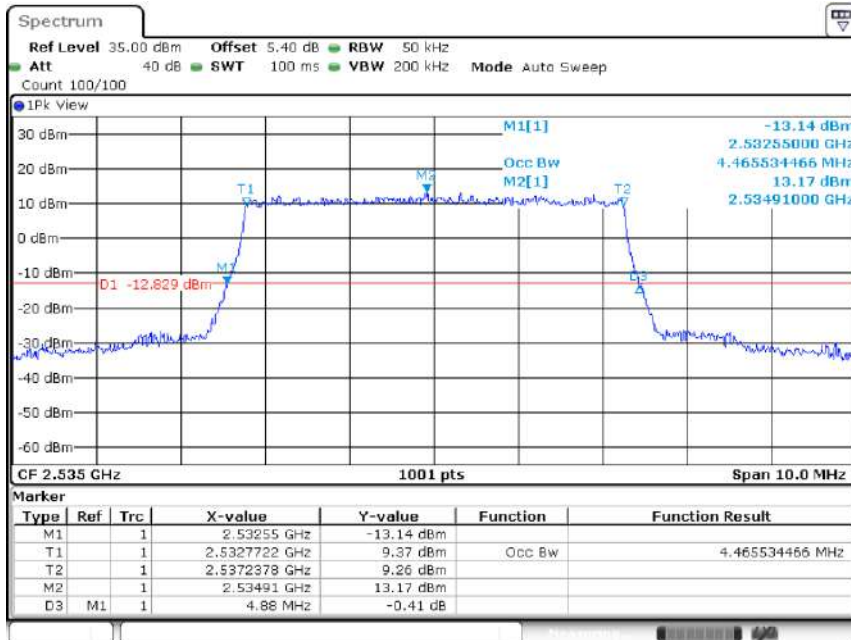
4.2. Test Plots

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



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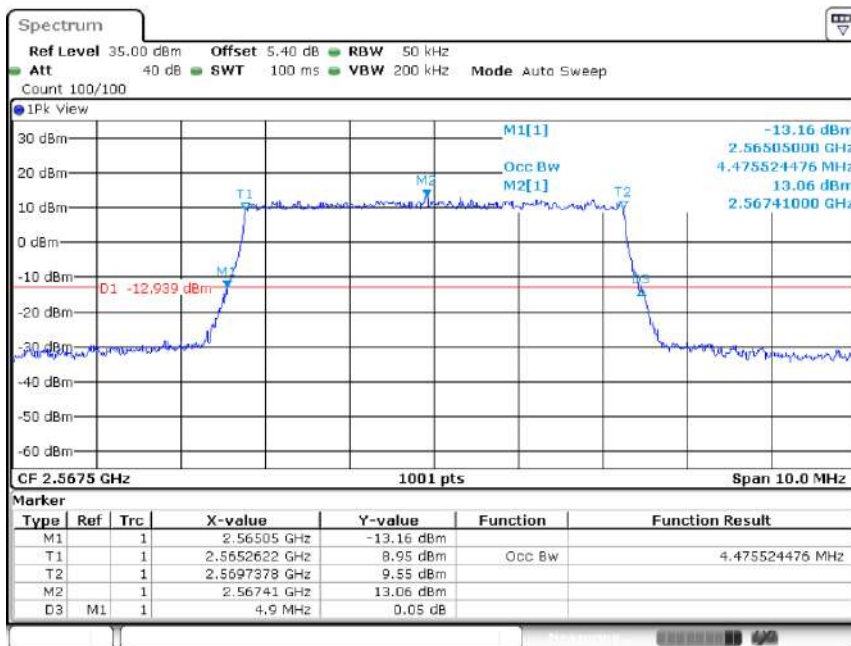
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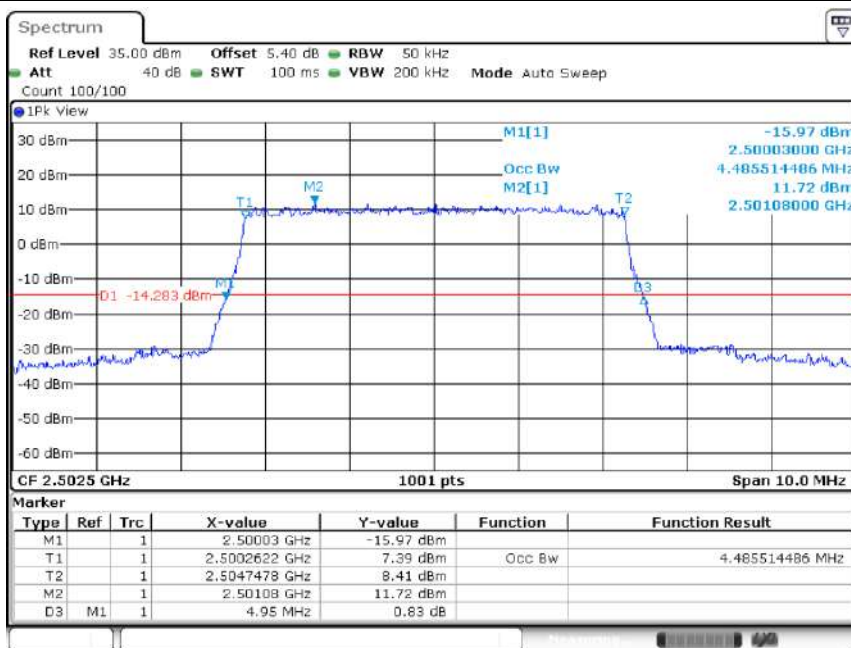


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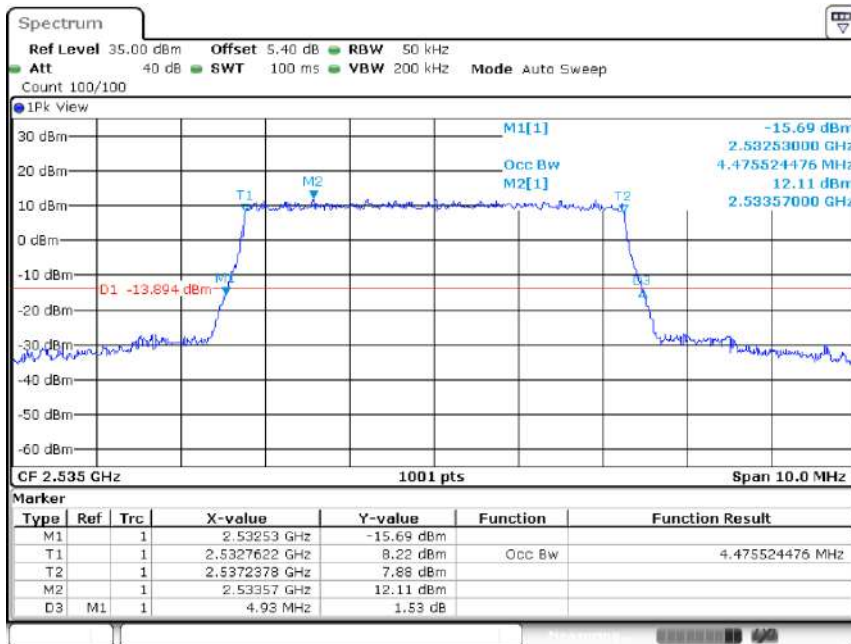
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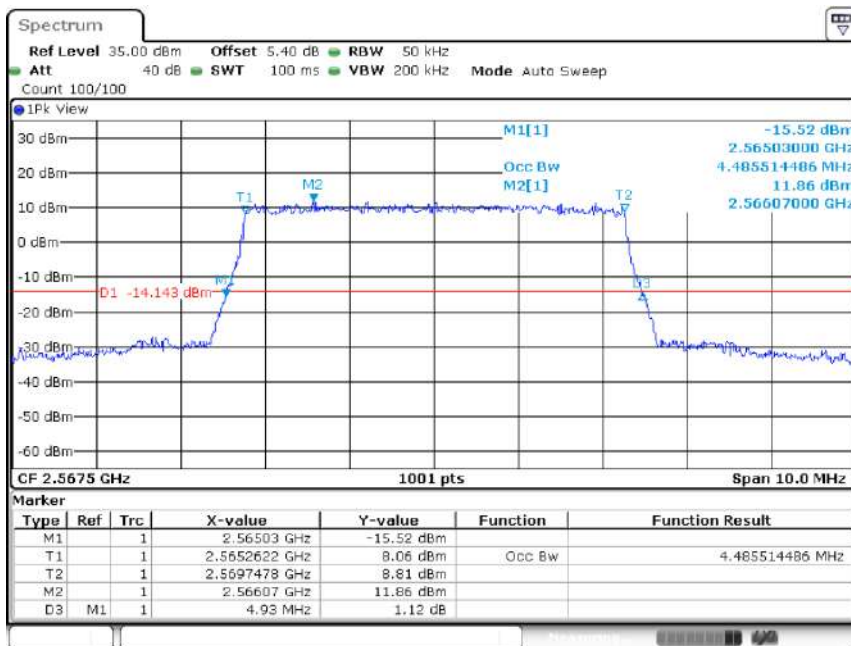


Band7-5MHz-16QAM-21100-25RB#0-4.476



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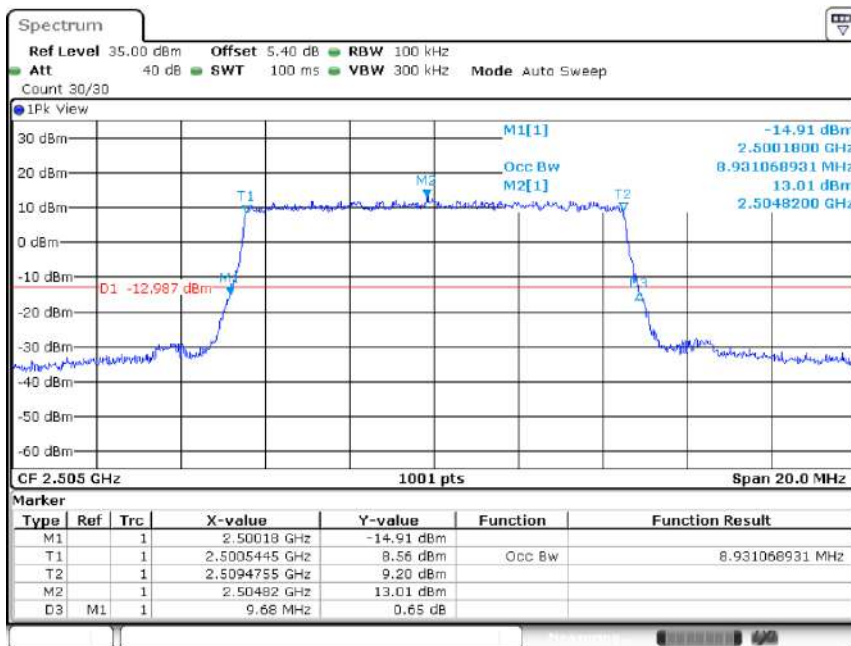
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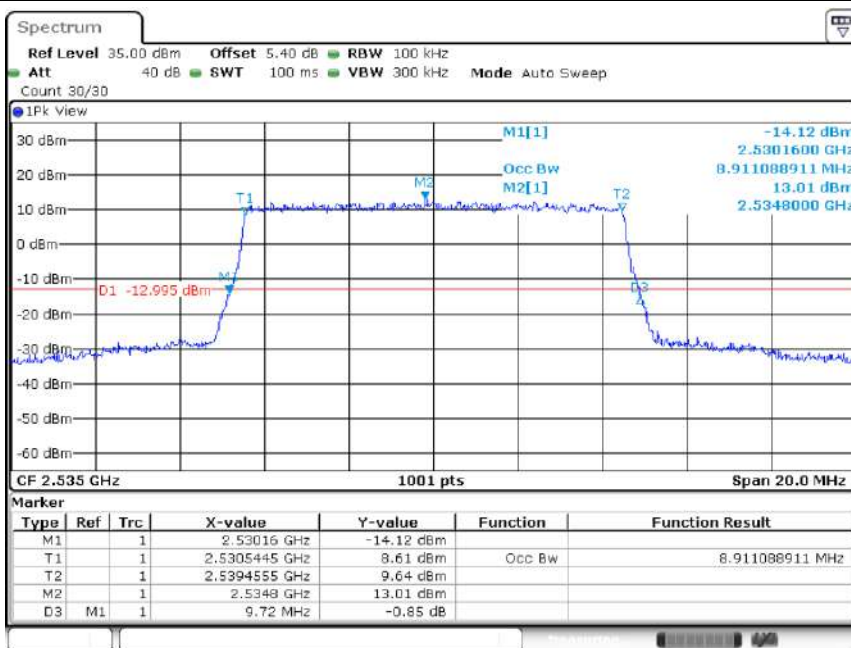


Band7-10MHz-QPSK-20800-50RB#0-8.931



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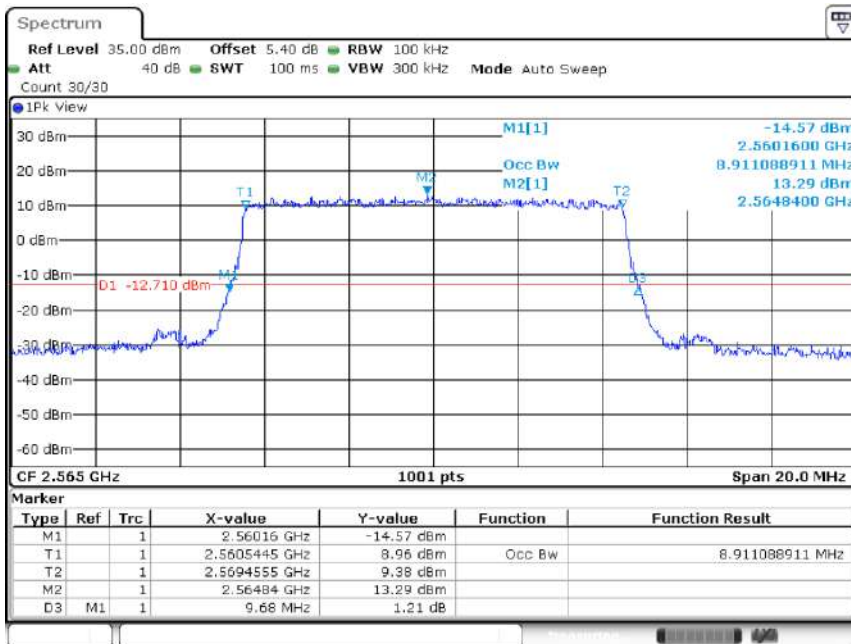
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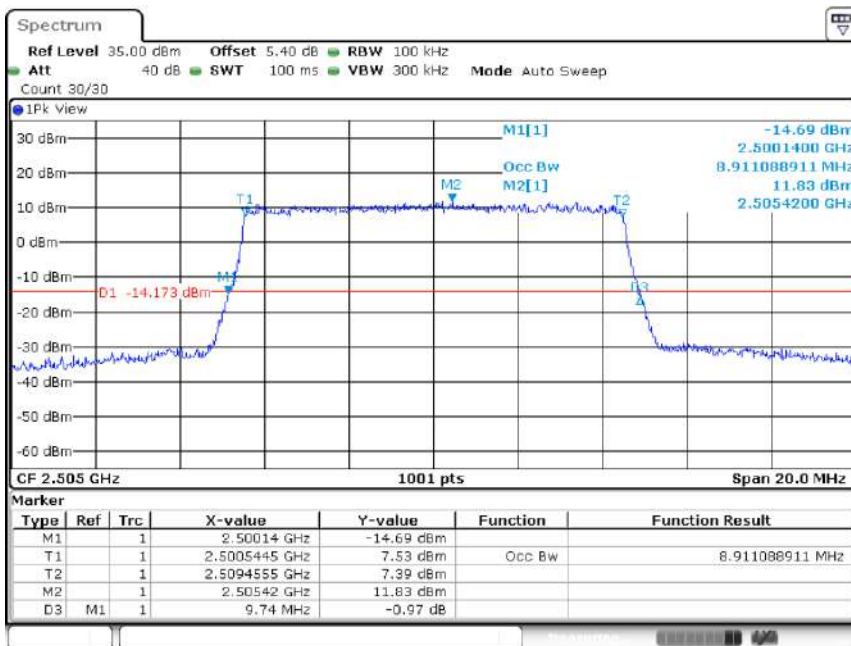


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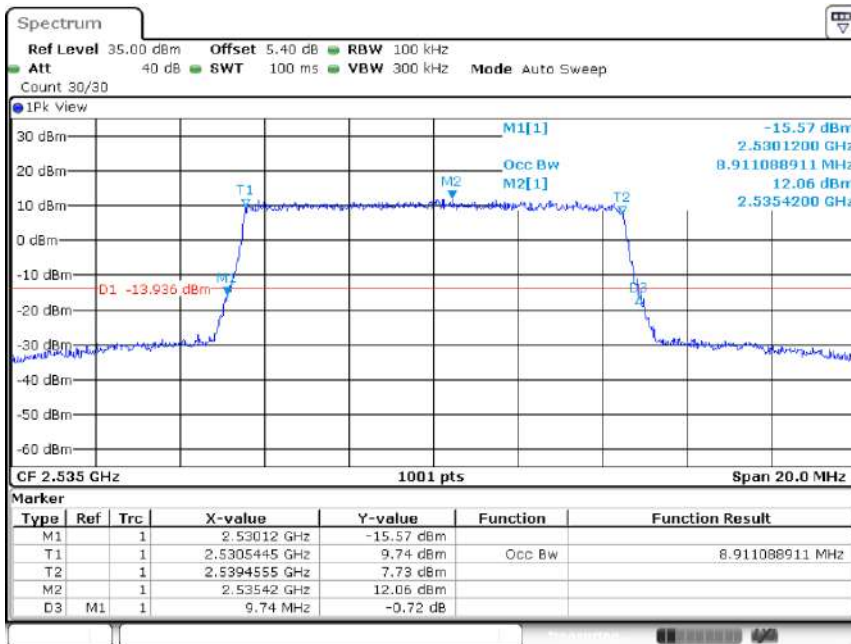
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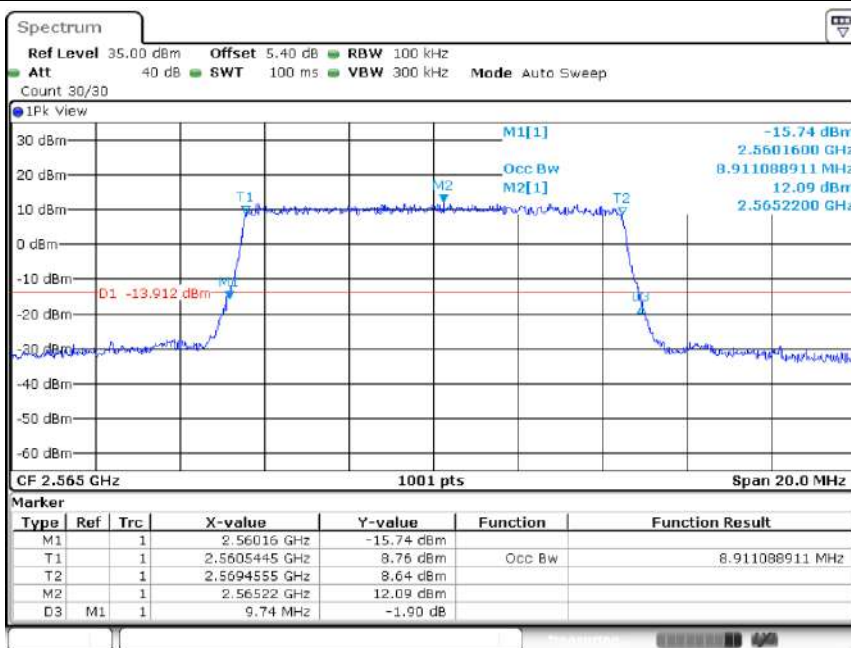


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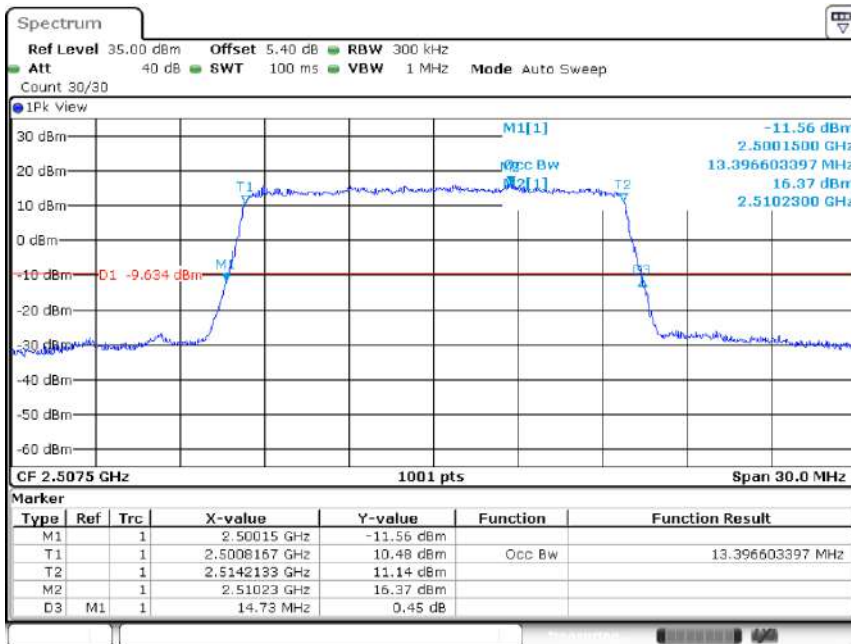
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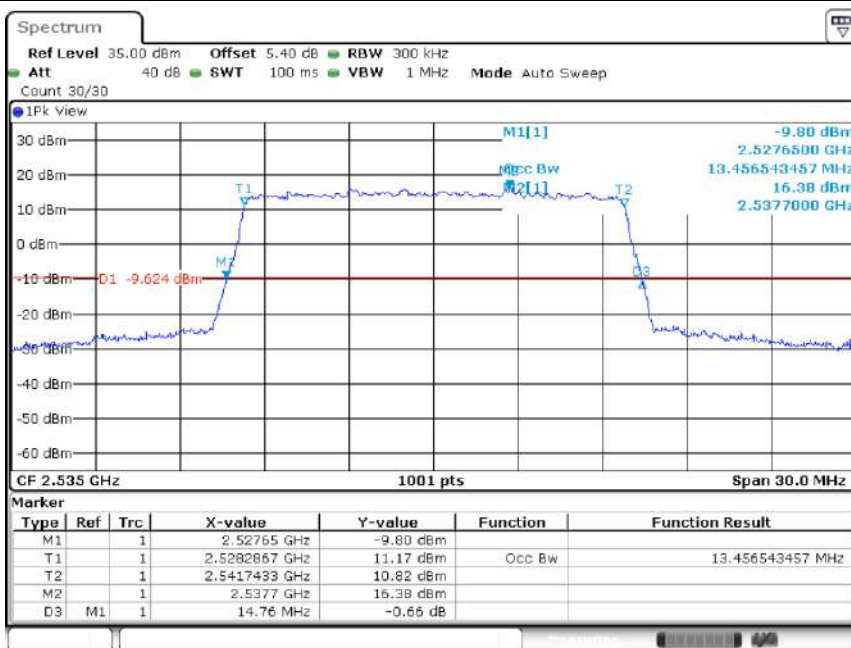


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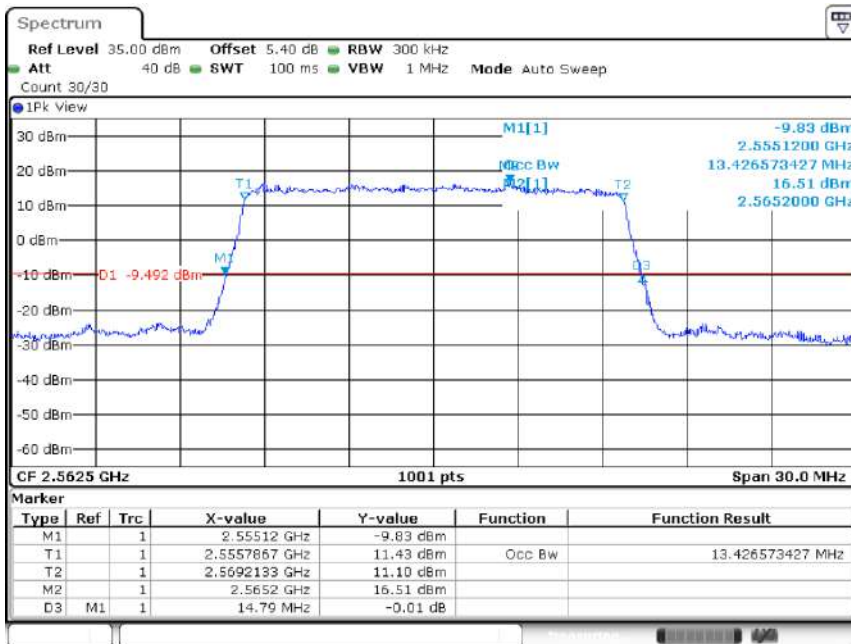
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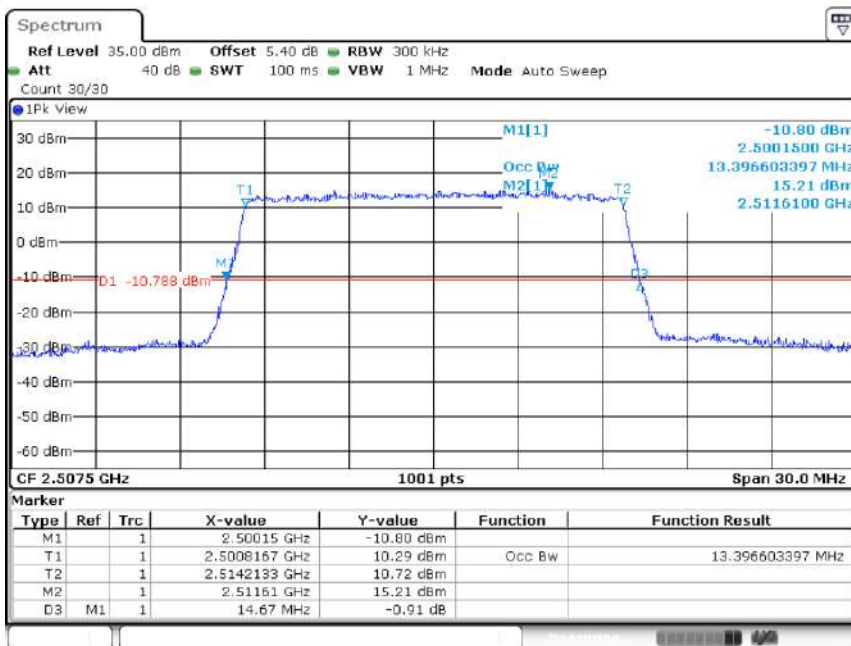


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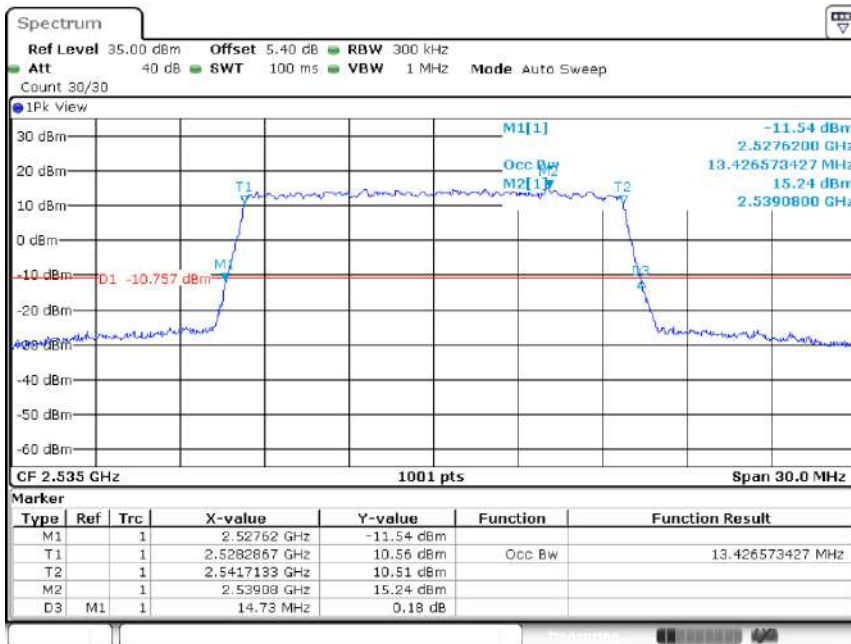
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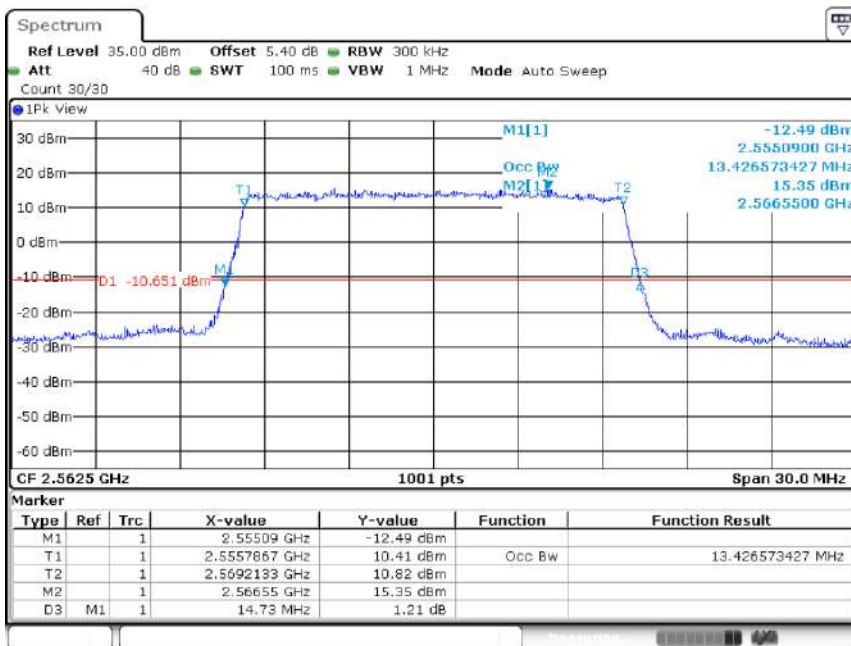


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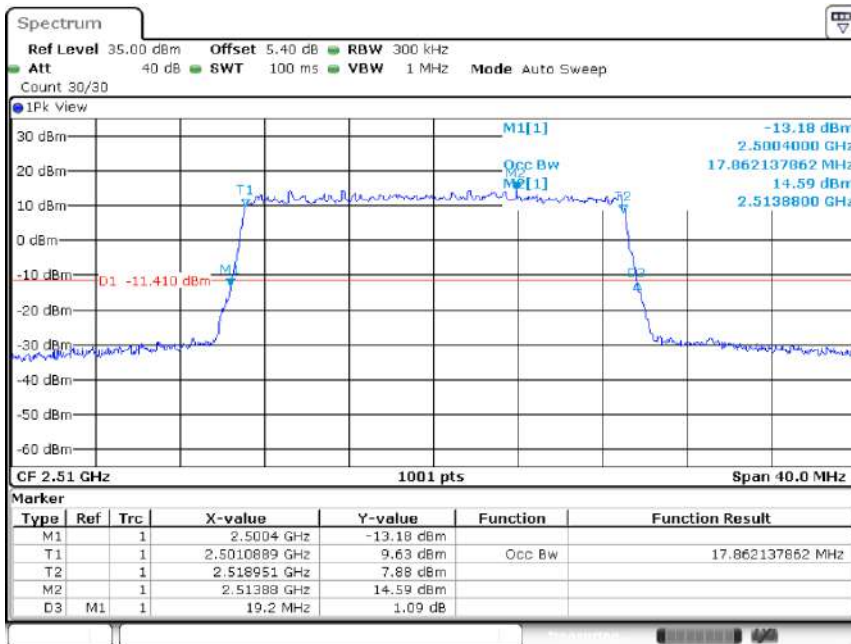
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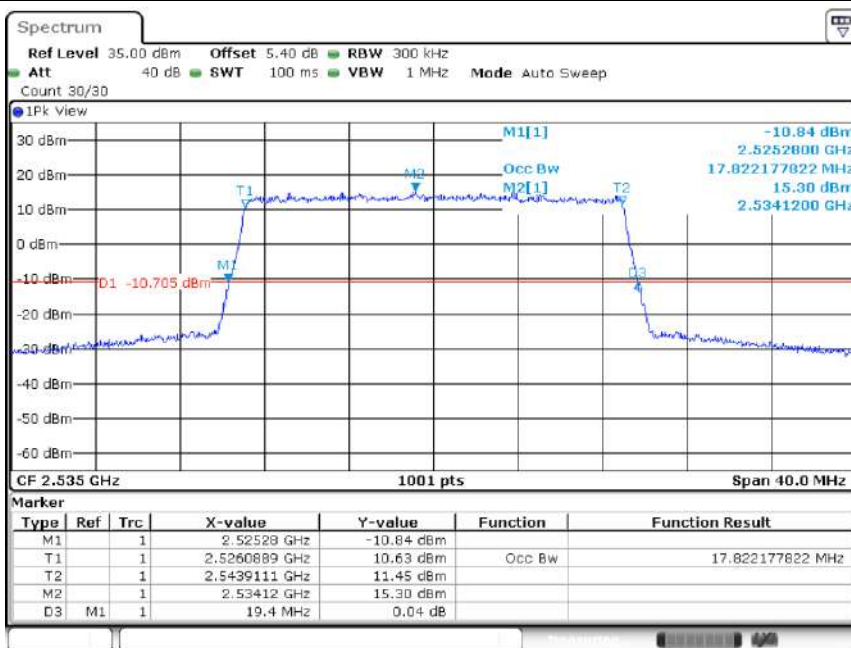


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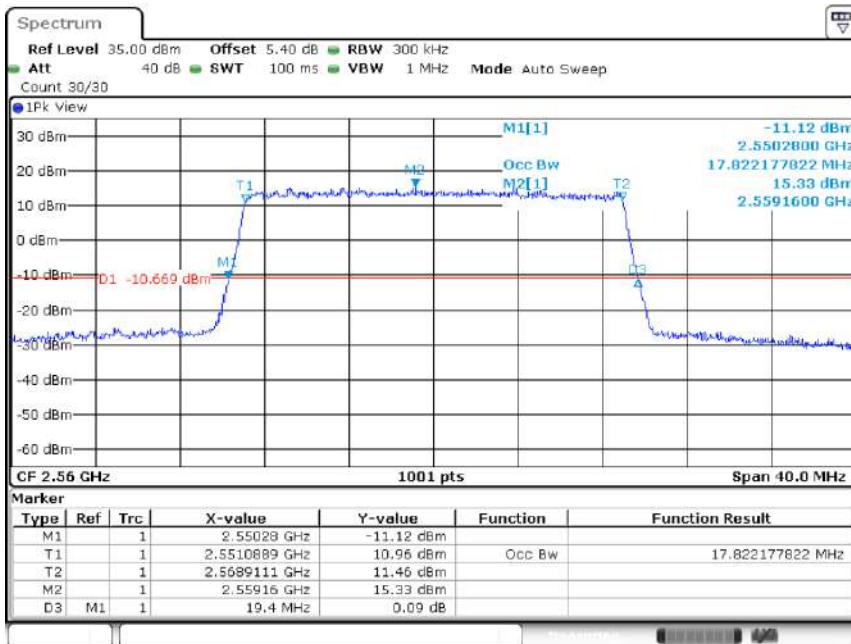
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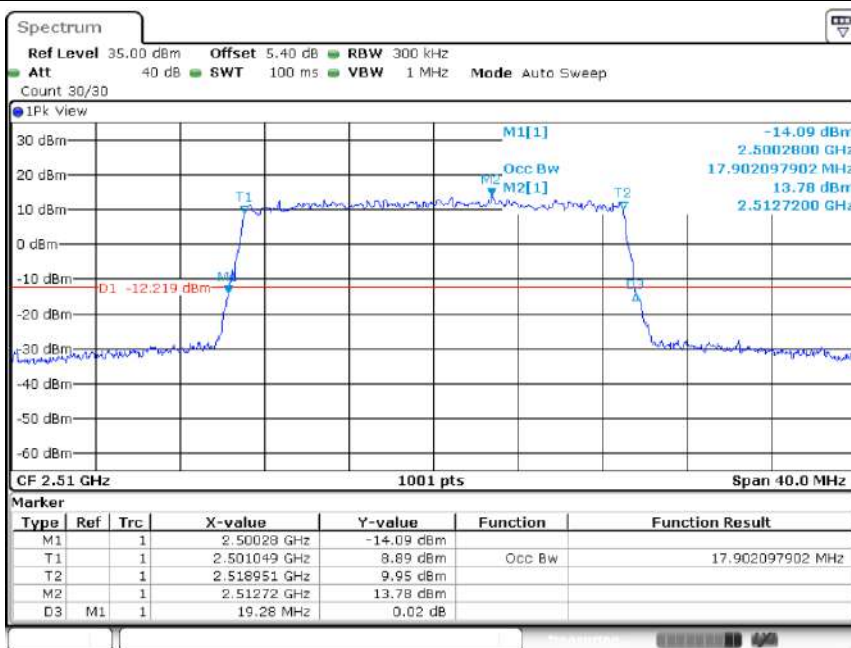


Band7-20MHz-QPSK-21350-100RB#0-17.822



Date: 28 SEP.2020 13:14:45

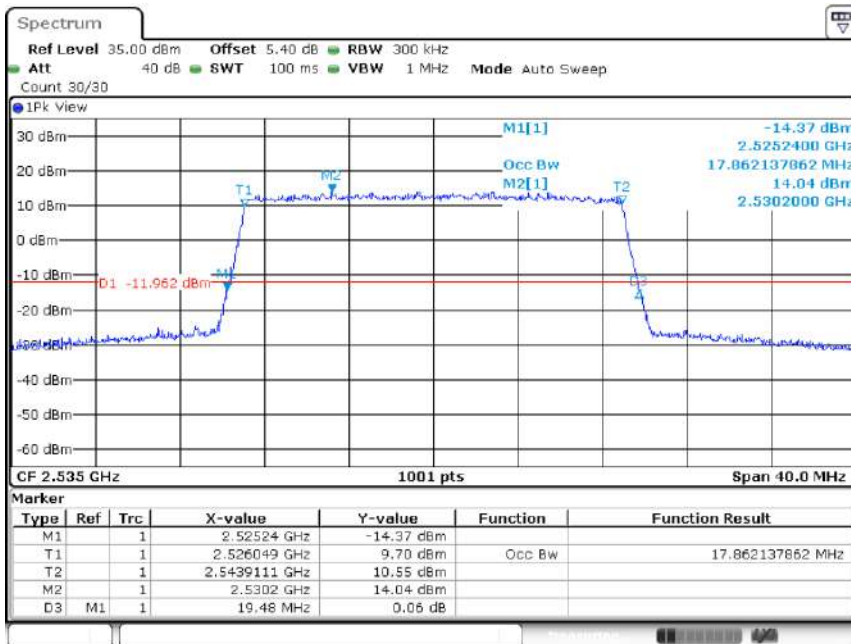
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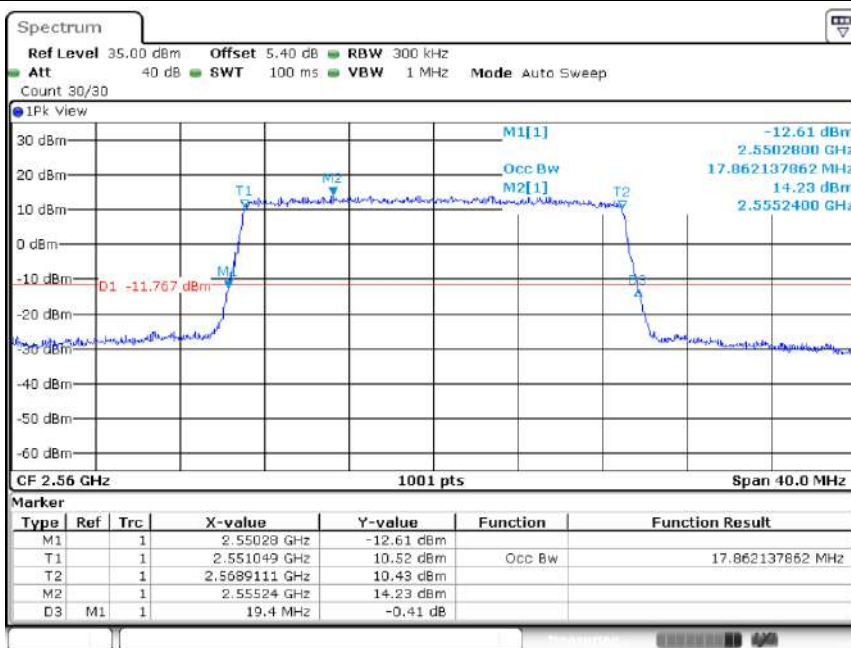


Band7-20MHz-16QAM-21100-100RB#0-17.862



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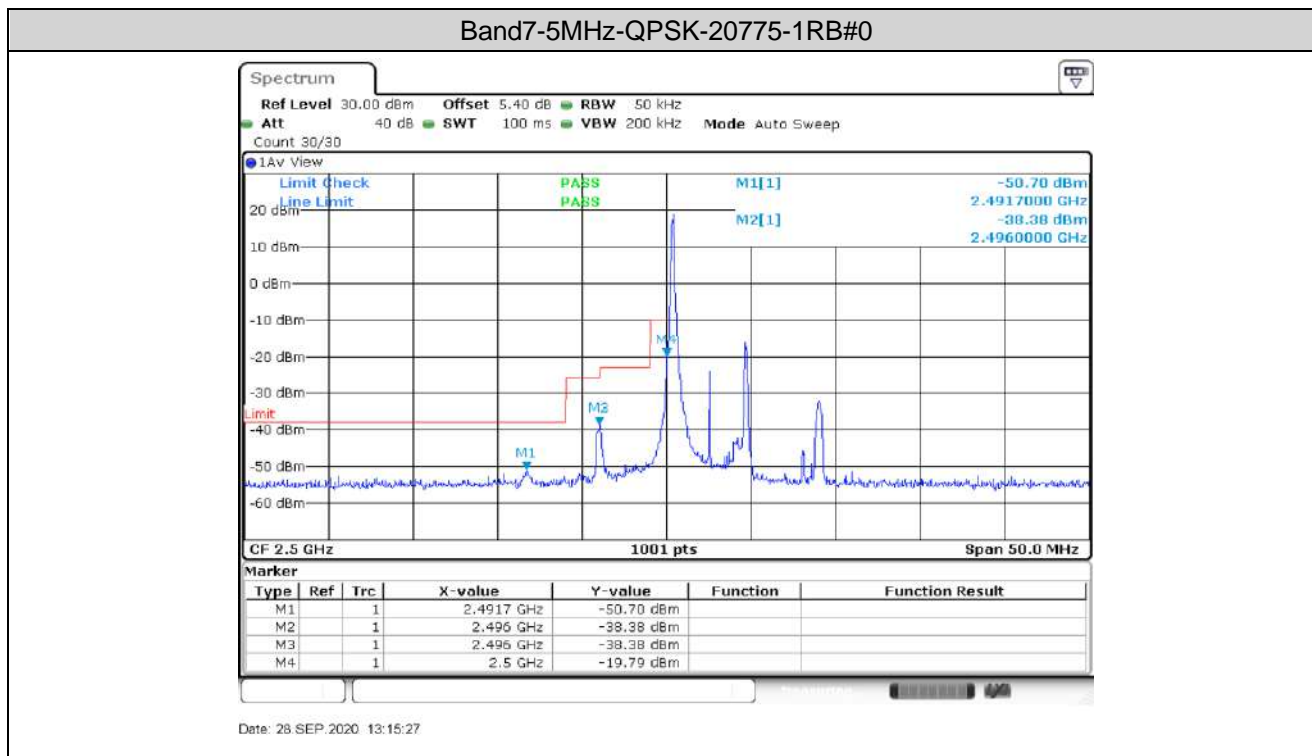


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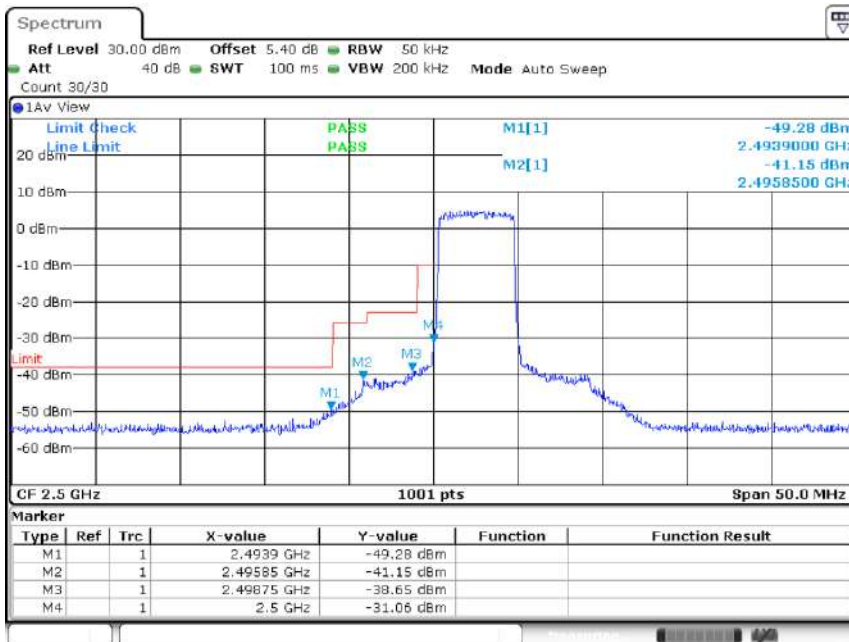


5. Band Edge Compliance

5.1. Test Plots

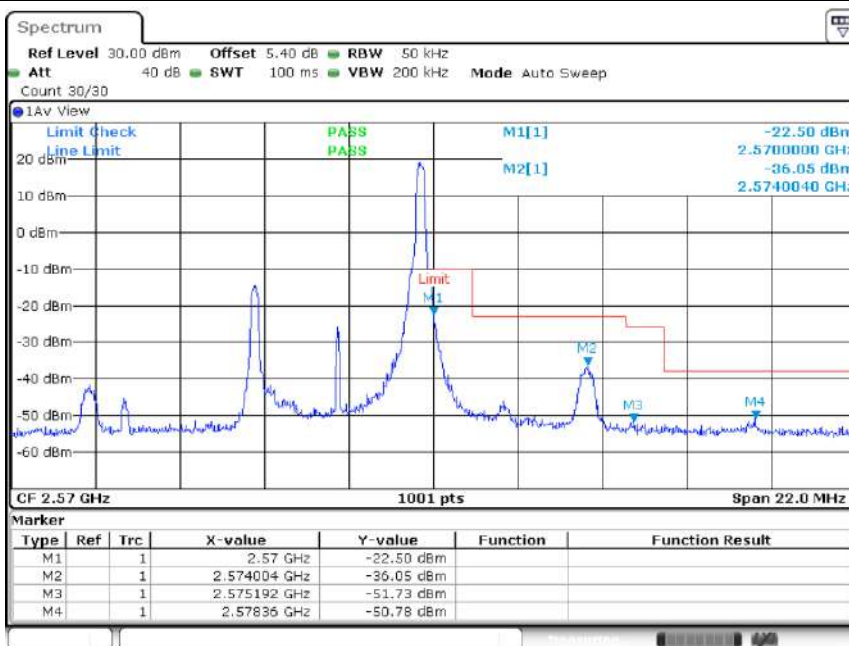


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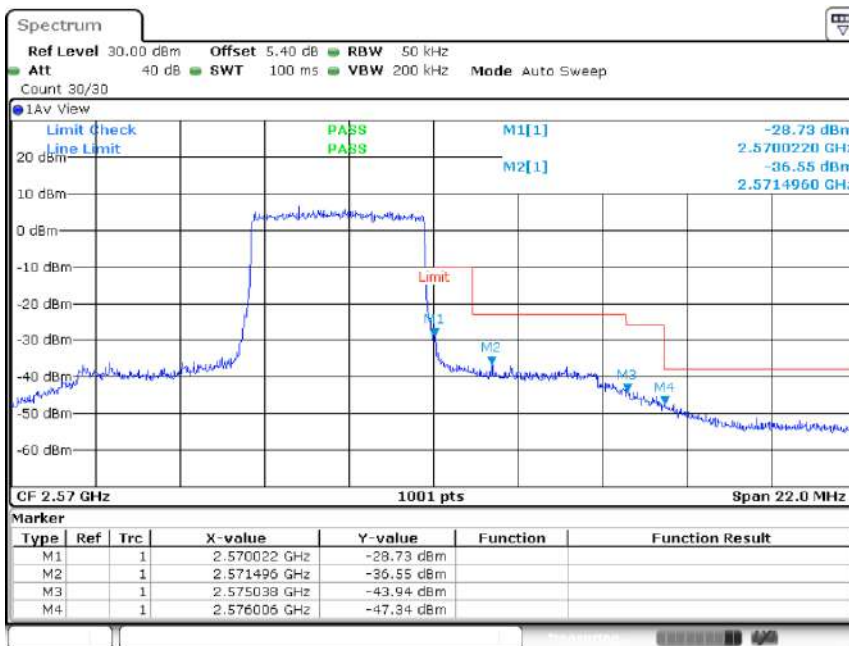
Date: 28 SEP.2020 13:16:48



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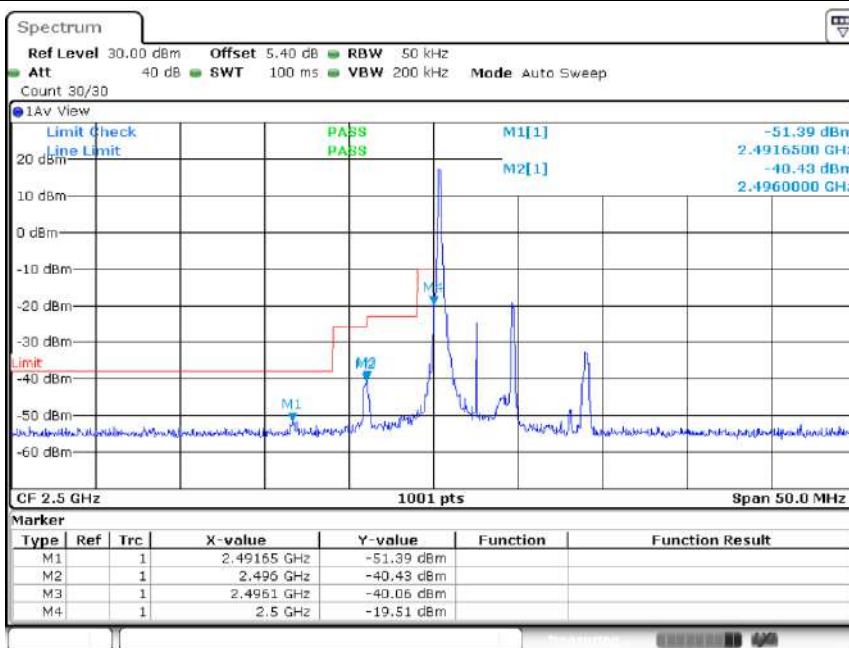
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Band7-5MHz-QPSK-21425-25RB#0



Date: 28 SEP.2020 13:17:25

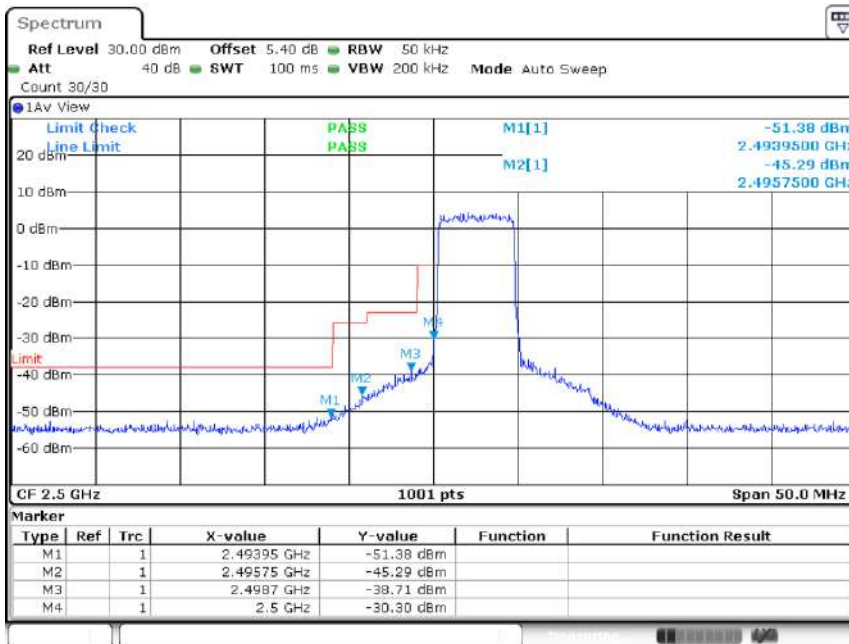
Band7-5MHz-16QAM-20775-1RB#0



Date: 28 SEP.2020 13:15:46

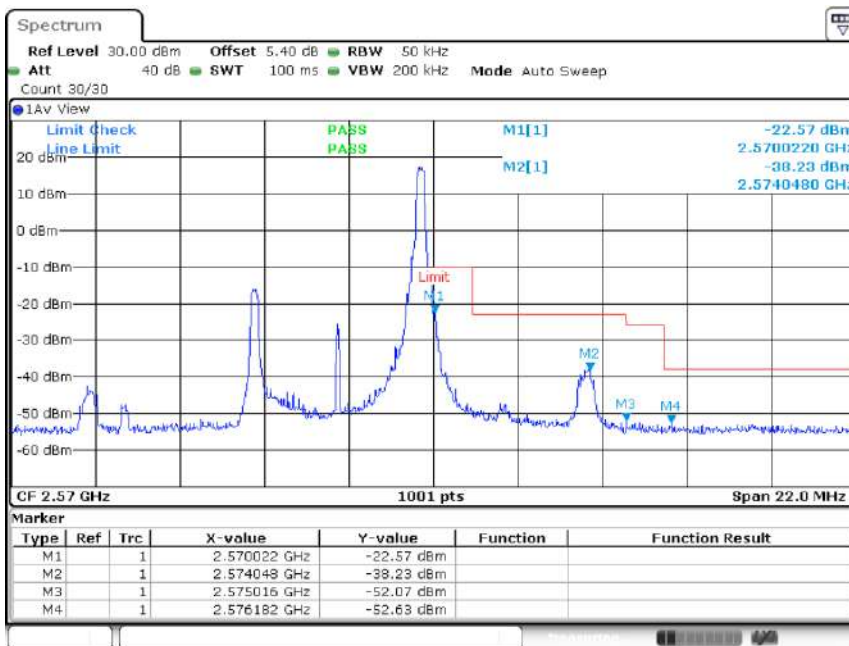


Band7-5MHz-16QAM-20775-25RB#0



Date: 28 SEP.2020 13:16:22

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



Date: 28 SEP.2020 13:17:07



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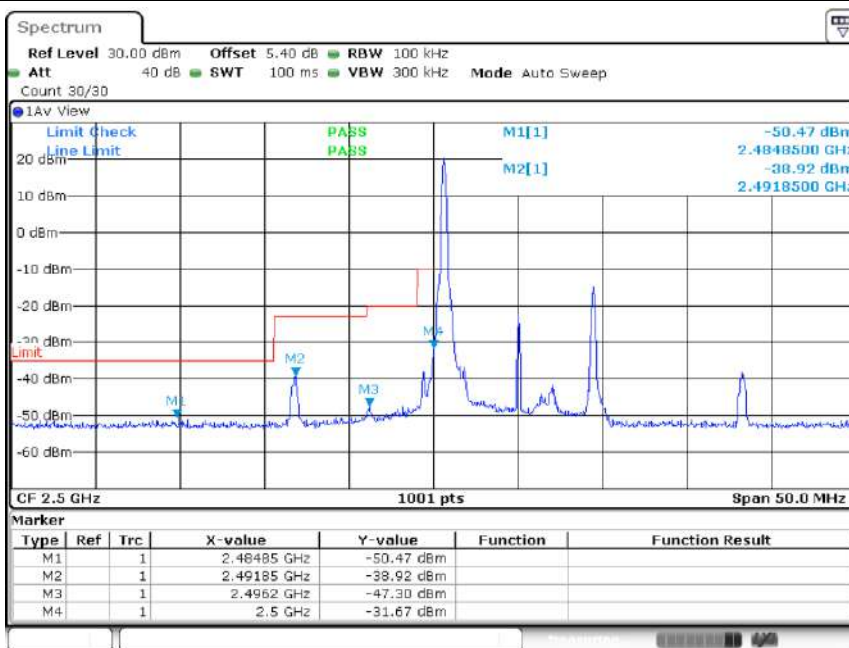
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Band7-5MHz-16QAM-21425-25RB#0



Date: 28 SEP.2020 13:17:44

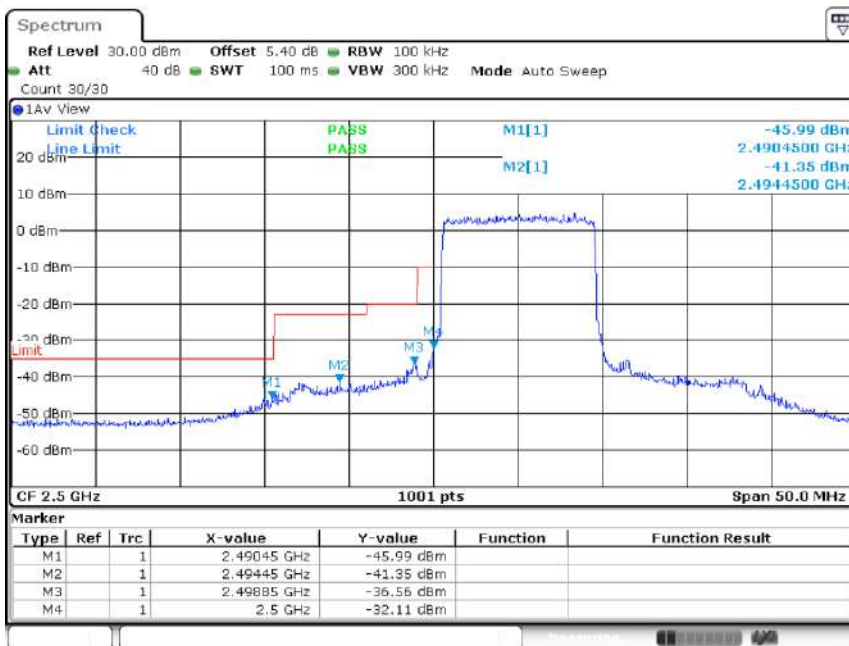
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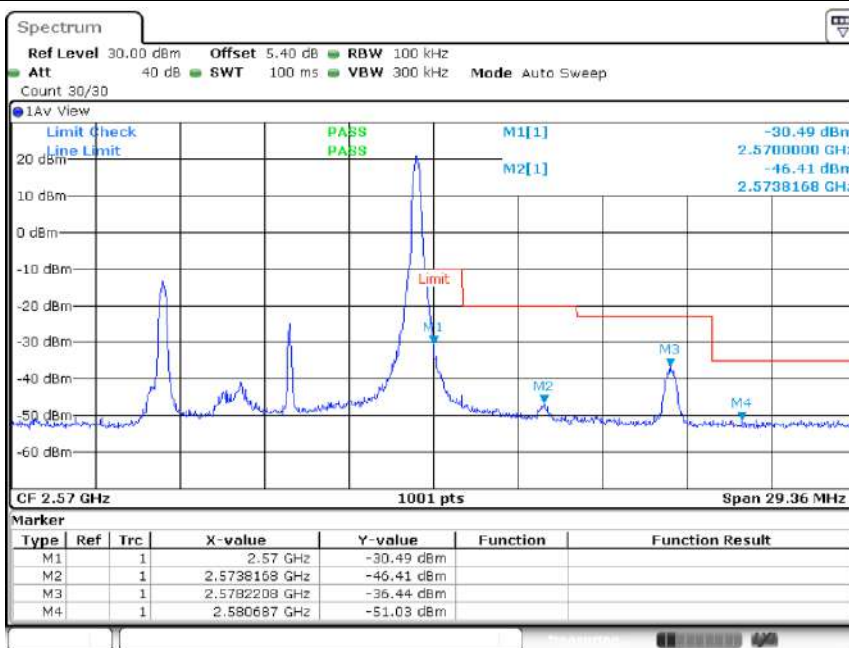


Band7-10MHz-QPSK-20800-50RB#0



Date: 28 SEP.2020 13:18:47

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



Date: 28 SEP.2020 13:19:31

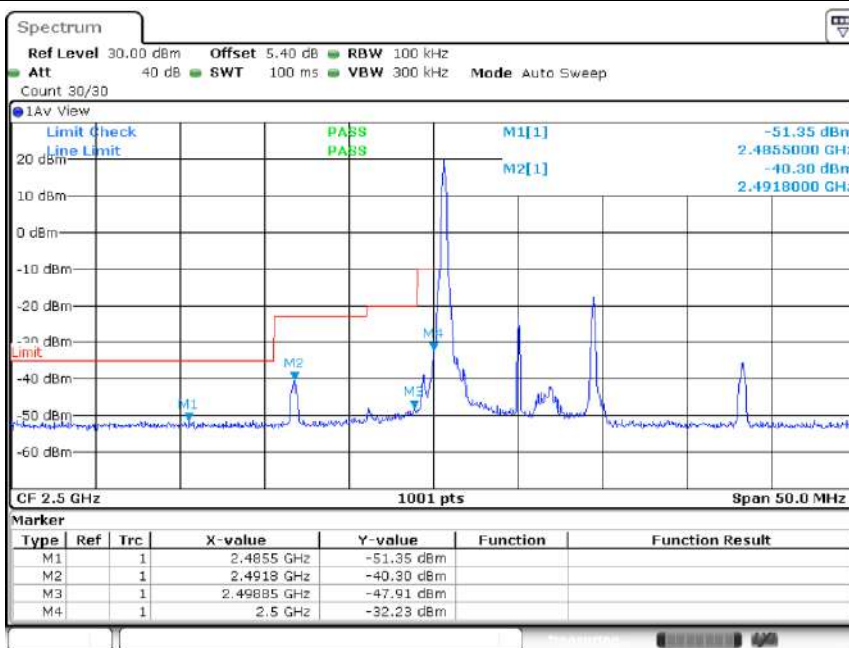


Band7-10MHz-QPSK-21400-50RB#0



Date: 28 SEP.2020 13:20:08

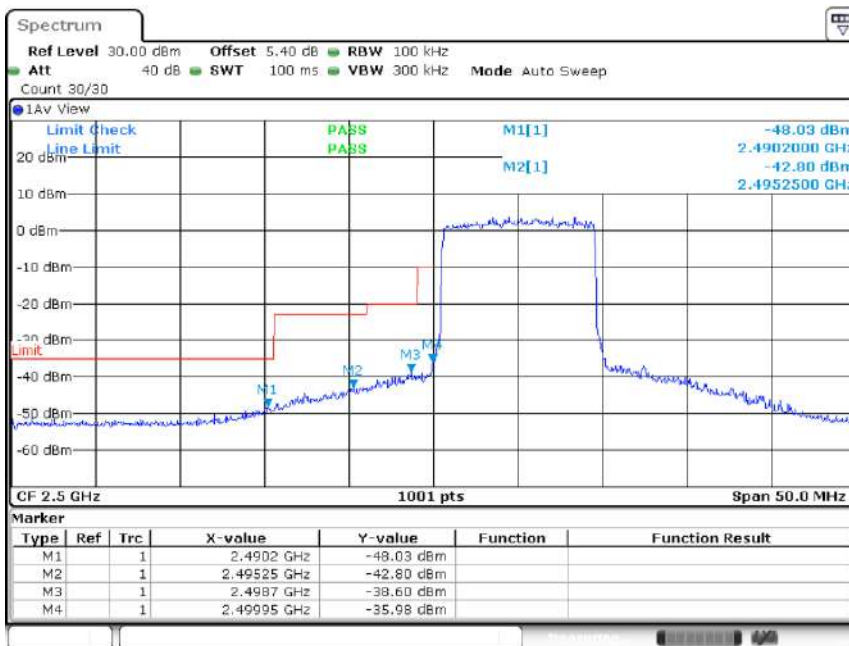
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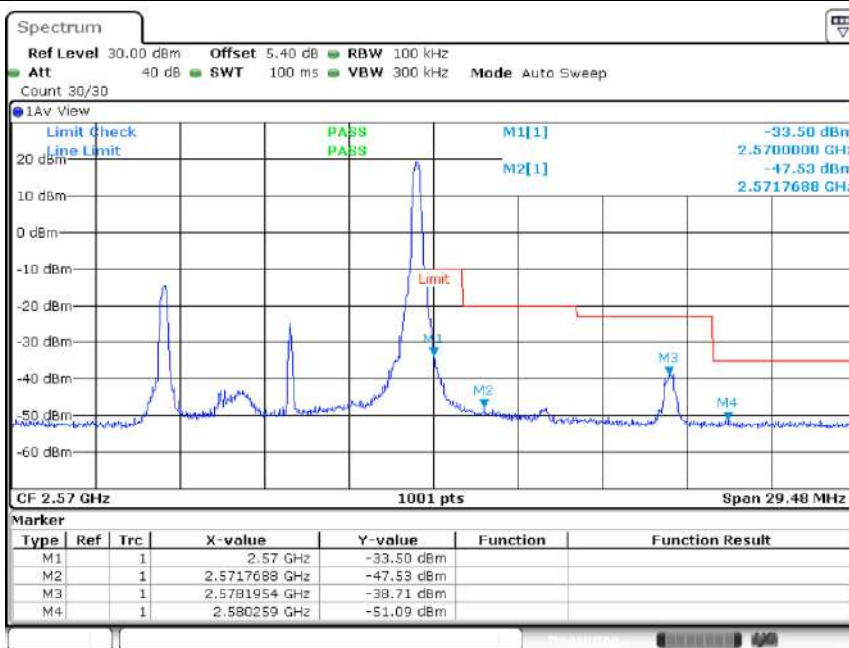


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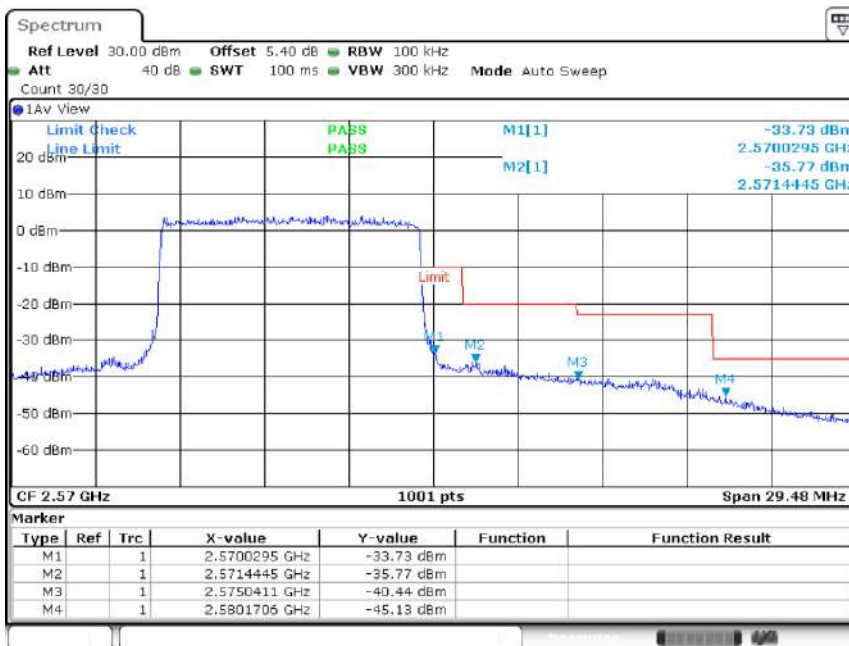
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Date: 28 SEP.2020 13:19:49

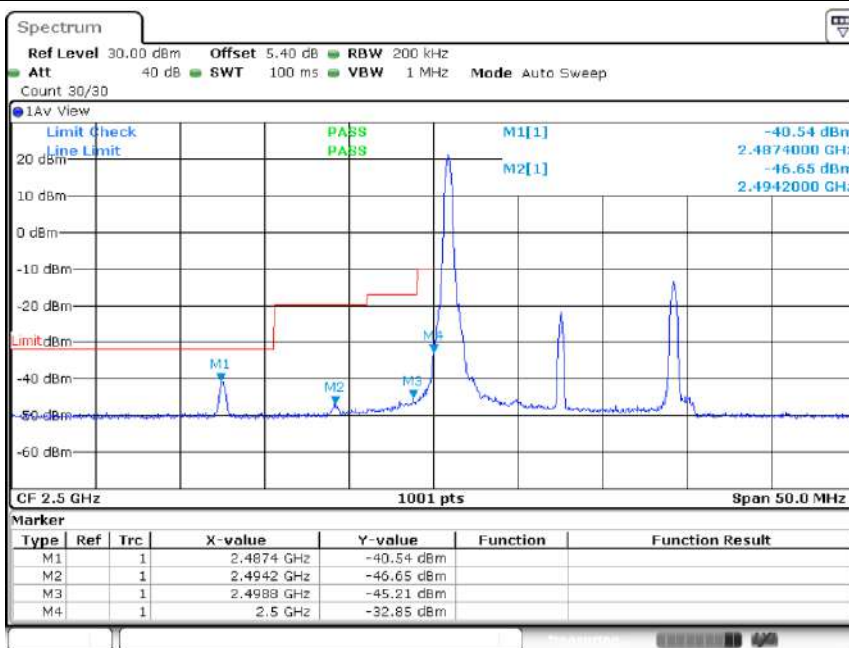


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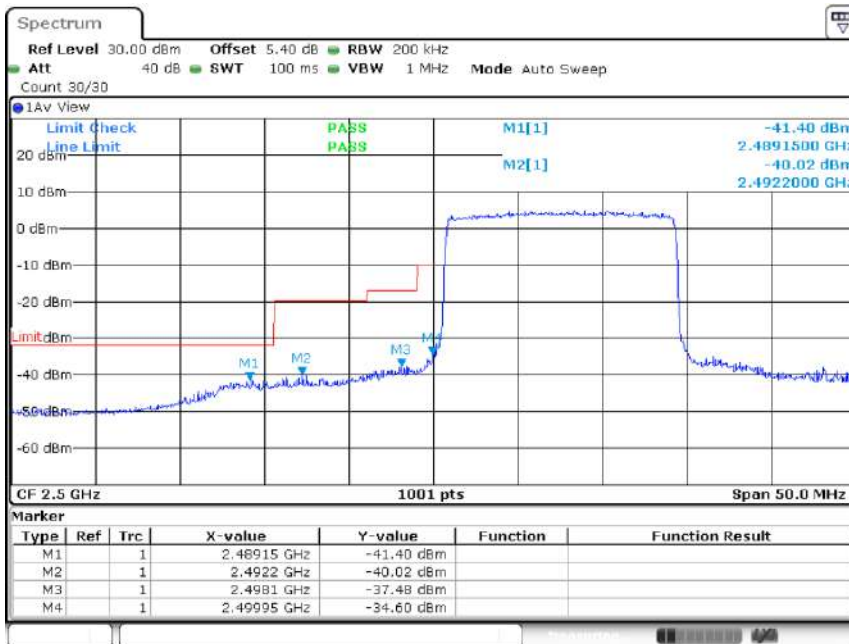
Band7-15MHz-QPSK-20825-1RB#0



Date: 28 SEP.2020 13:20:53

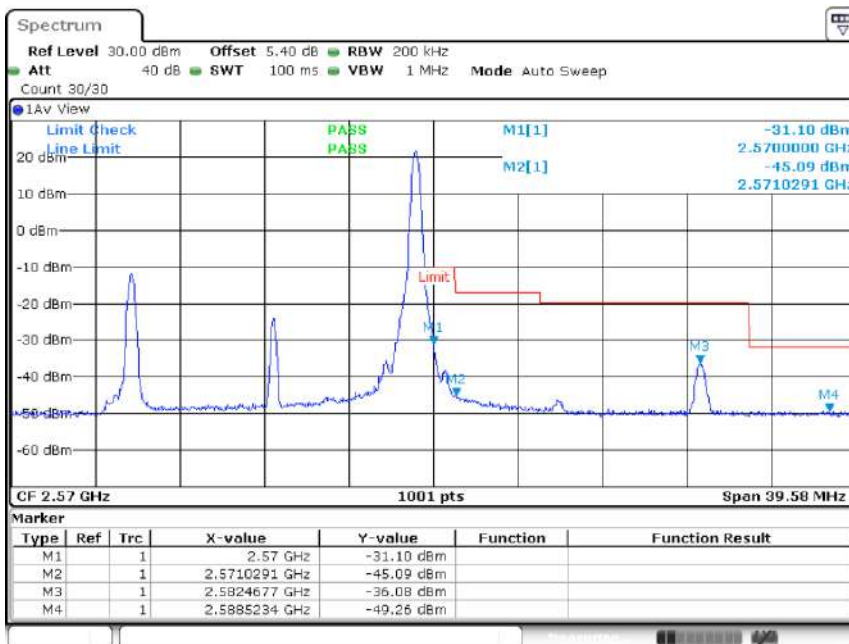


Band7-15MHz-QPSK-20825-75RB#0



Date: 28 SEP.2020 13:21:29

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



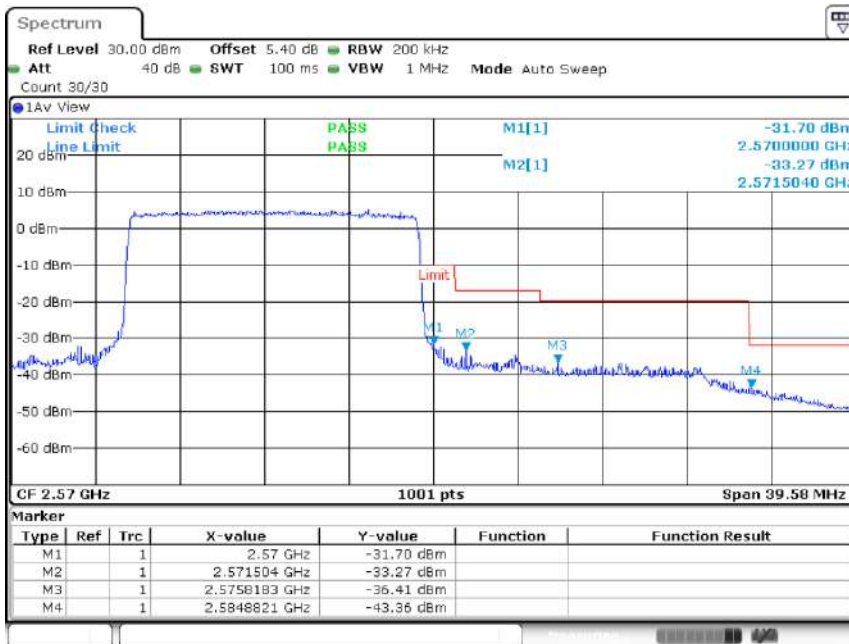
Date: 28 SEP.2020 13:22:13



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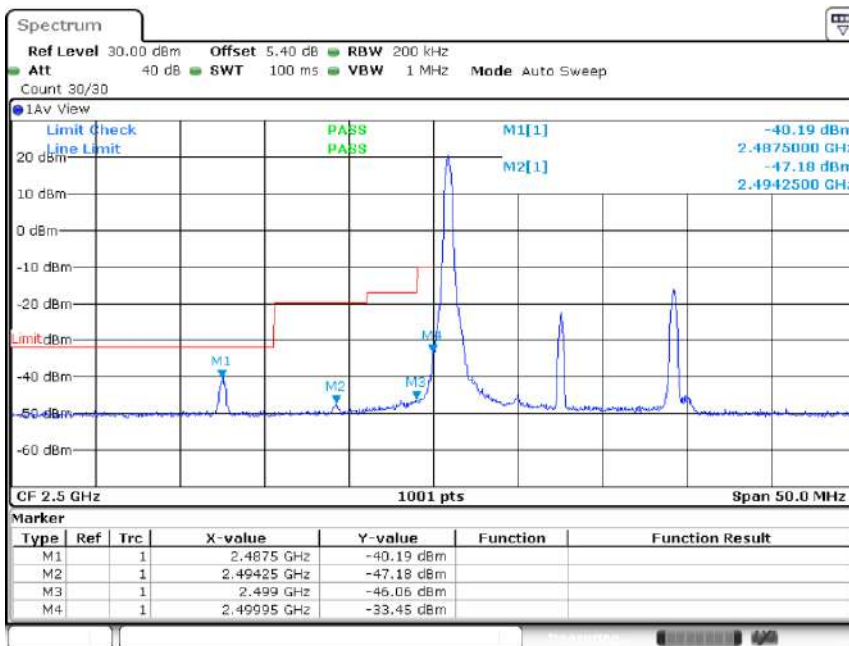
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Band7-15MHz-QPSK-21375-75RB#0



Date: 28 SEP.2020 13:22:50

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



Date: 28 SEP.2020 13:21:11



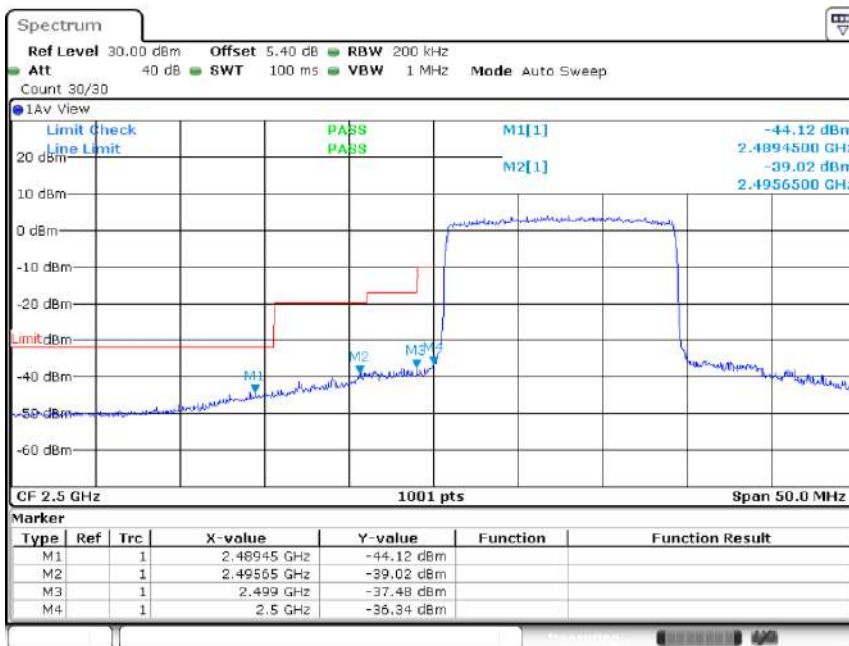
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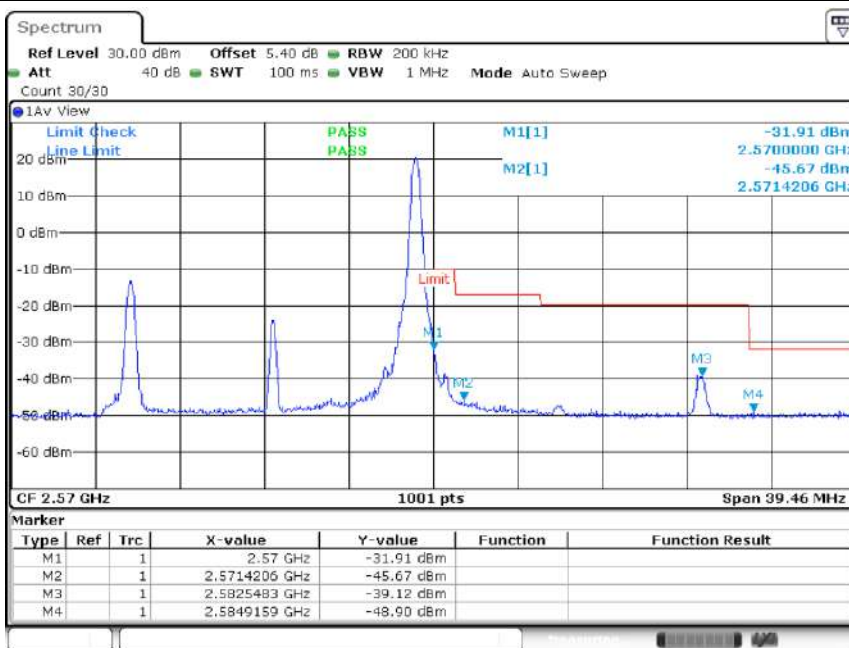
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Band7-15MHz-16QAM-20825-75RB#0



Date: 28 SEP.2020 13:21:48

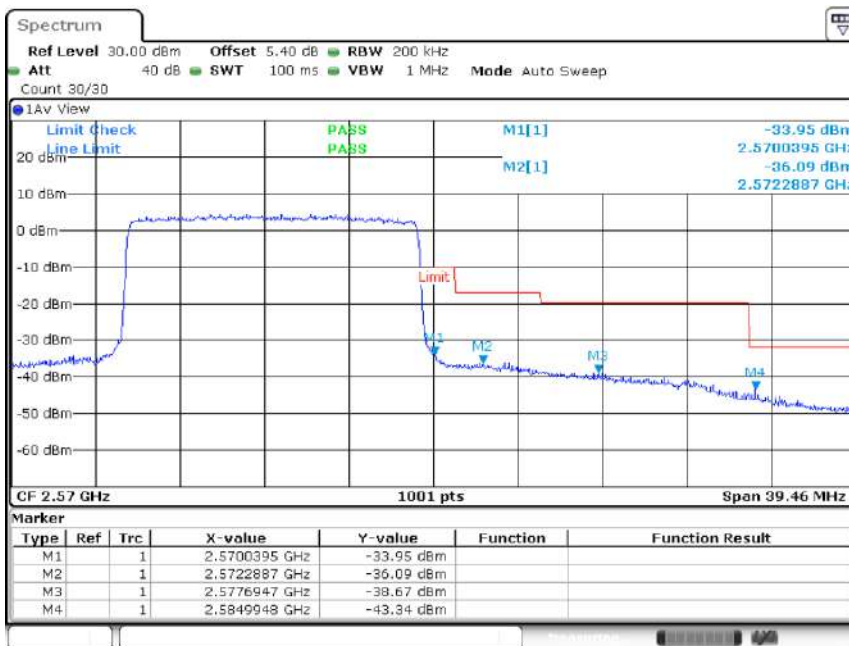
Band7-15MHz-16QAM-21375-1RB#74



Date: 28 SEP.2020 13:22:32

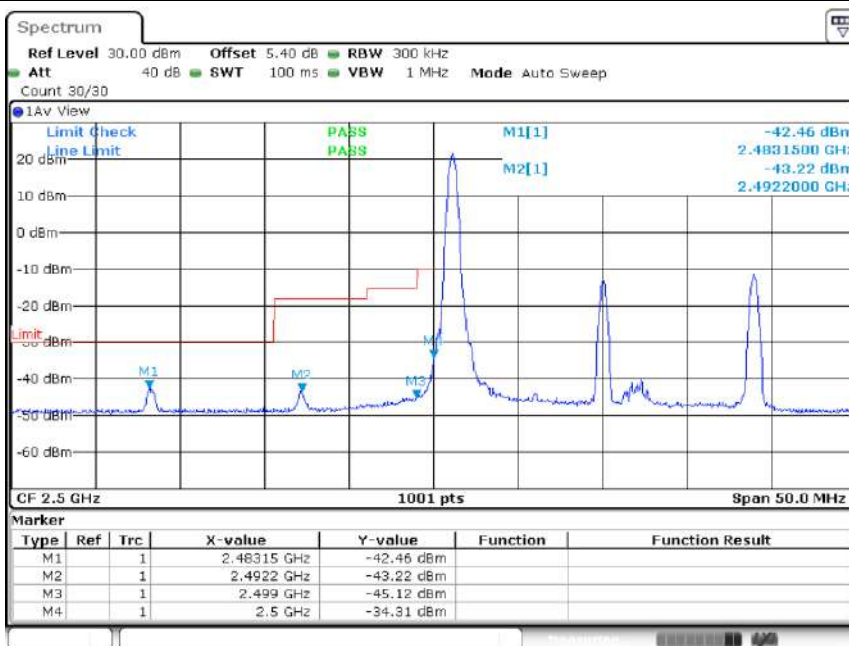


Band7-15MHz-16QAM-21375-75RB#0



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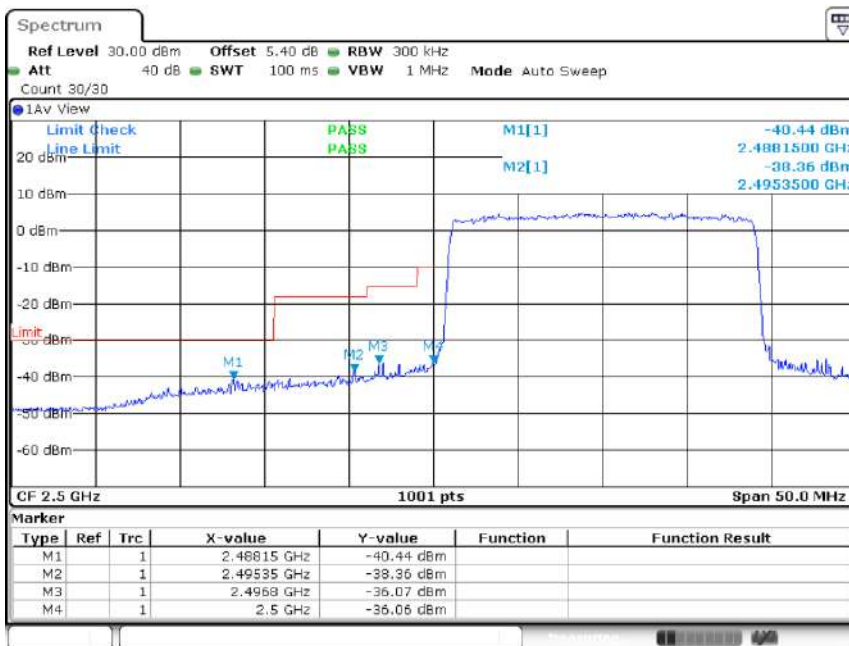
Band7-20MHz-QPSK-20850-1RB#0



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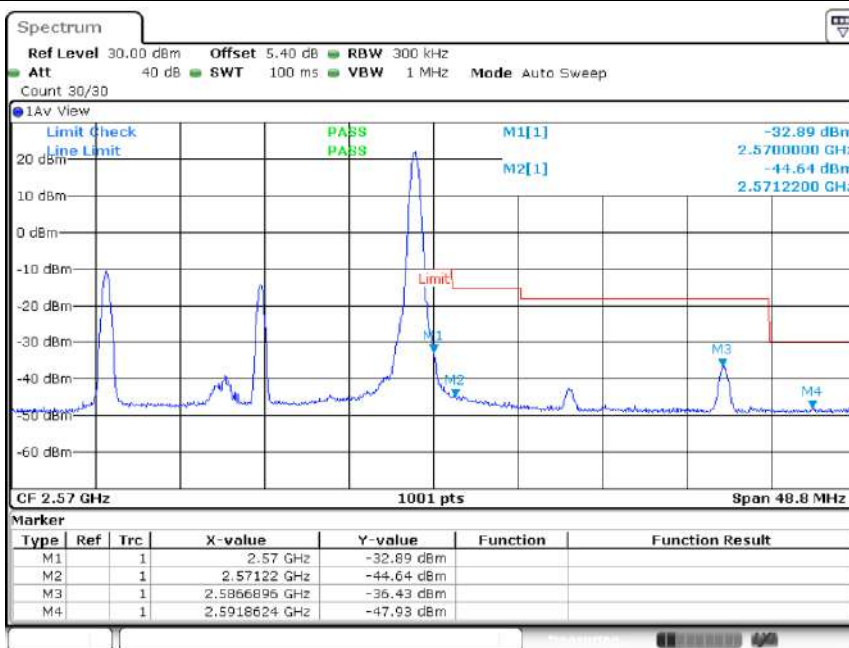


Band7-20MHz-QPSK-20850-100RB#0



Date: 28 SEP.2020 13:24:11

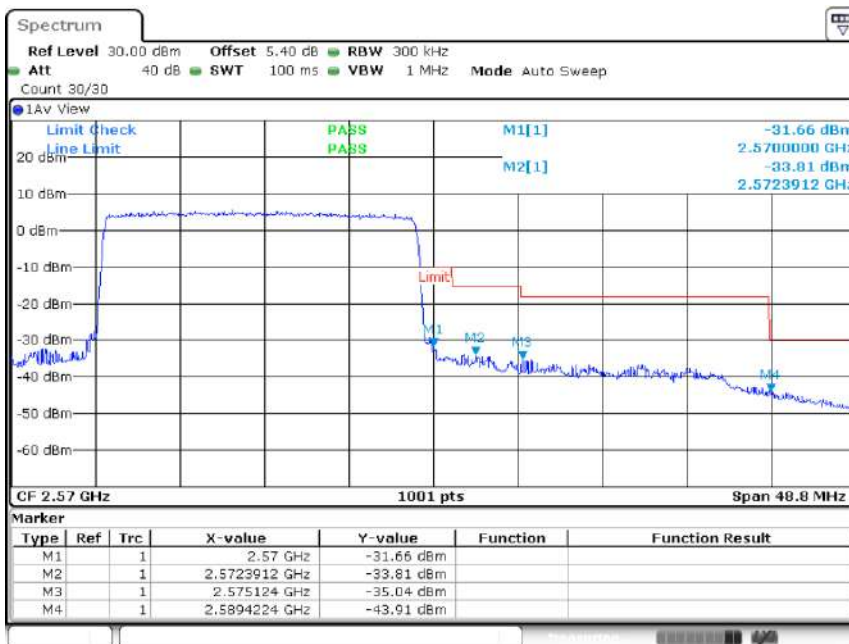
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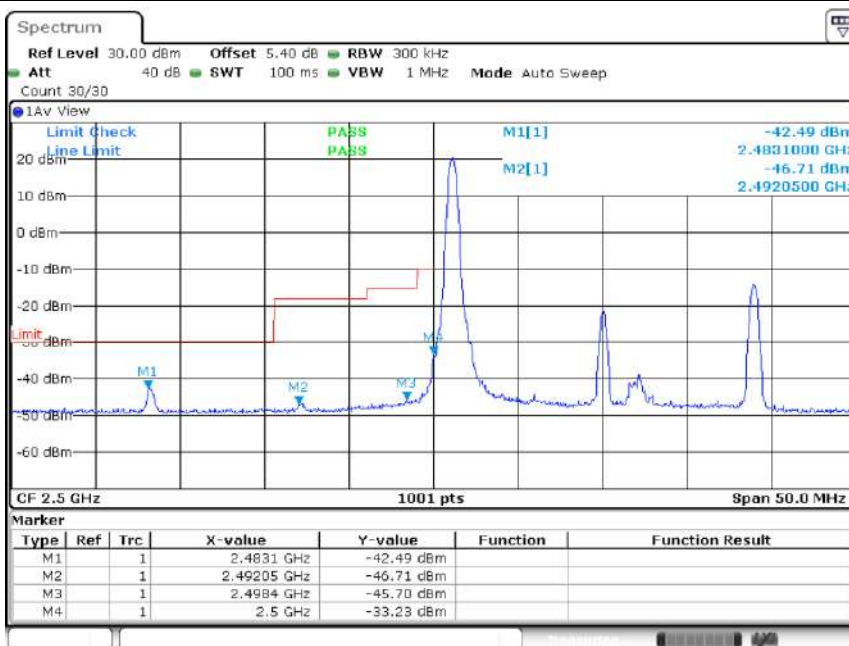


Band7-20MHz-QPSK-21350-100RB#0



Date: 28 SEP.2020 13:25:32

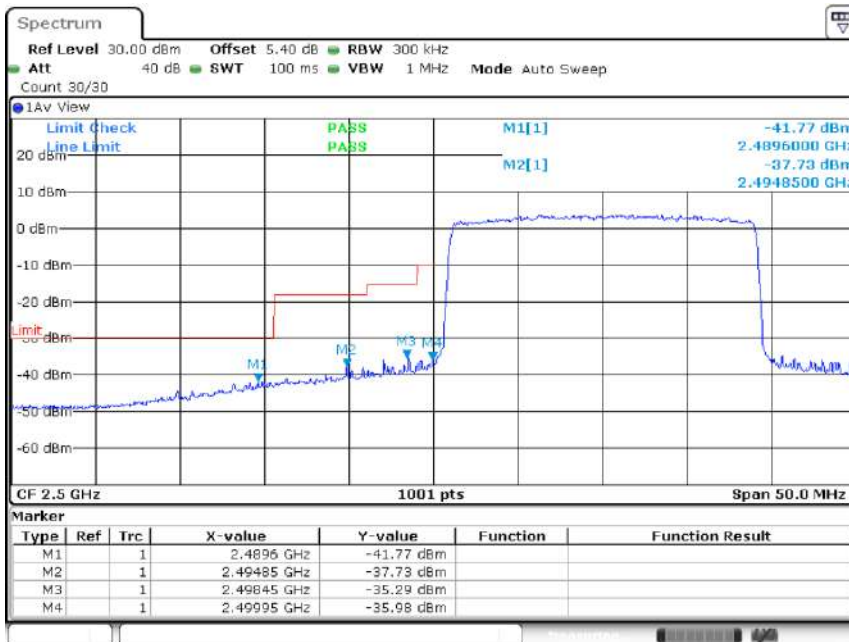
Band7-20MHz-16QAM-20850-1RB#0



Date: 28 SEP.2020 13:23:53

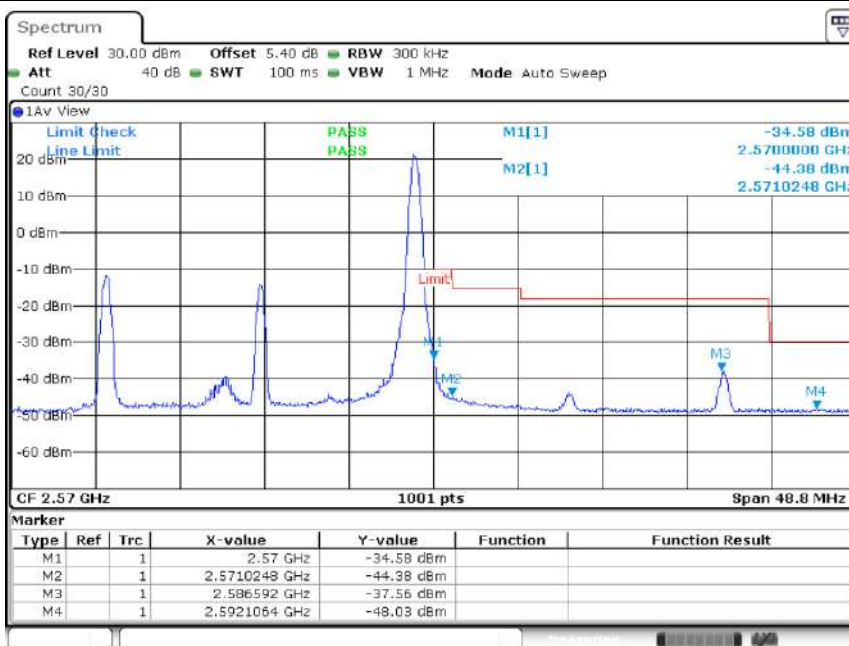


Band7-20MHz-16QAM-20850-100RB#0



Date: 28 SEP.2020 13:24:30

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



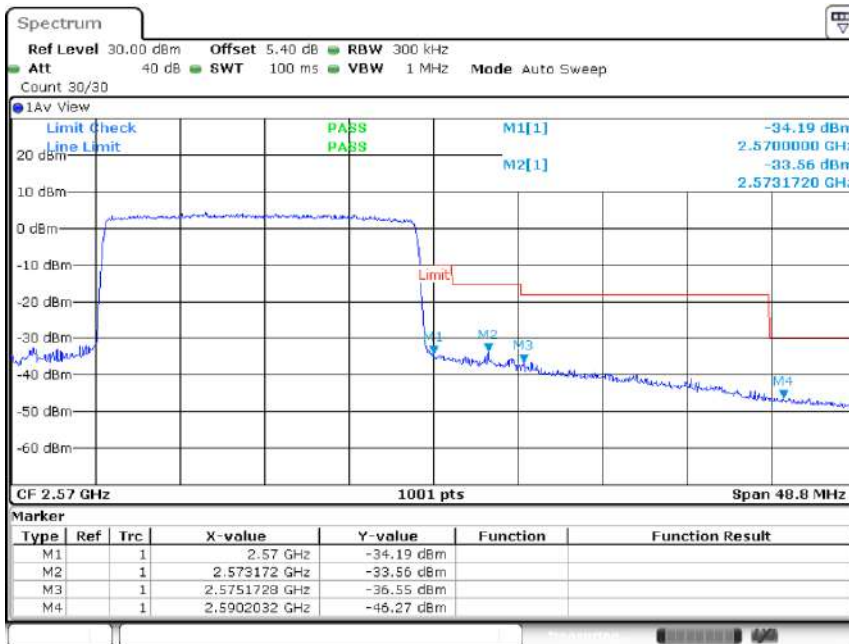
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Band7-20MHz-16QAM-21350-100RB#0



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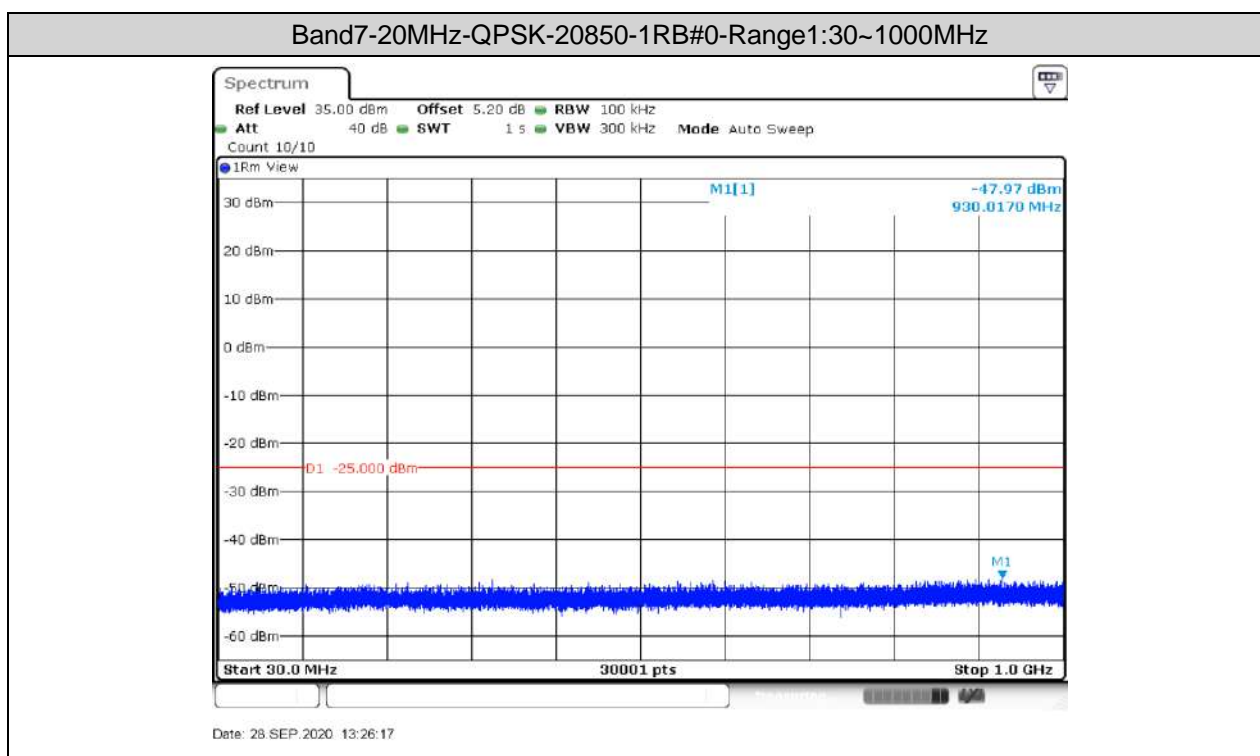
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6. Spurious Emission at Antenna Terminal

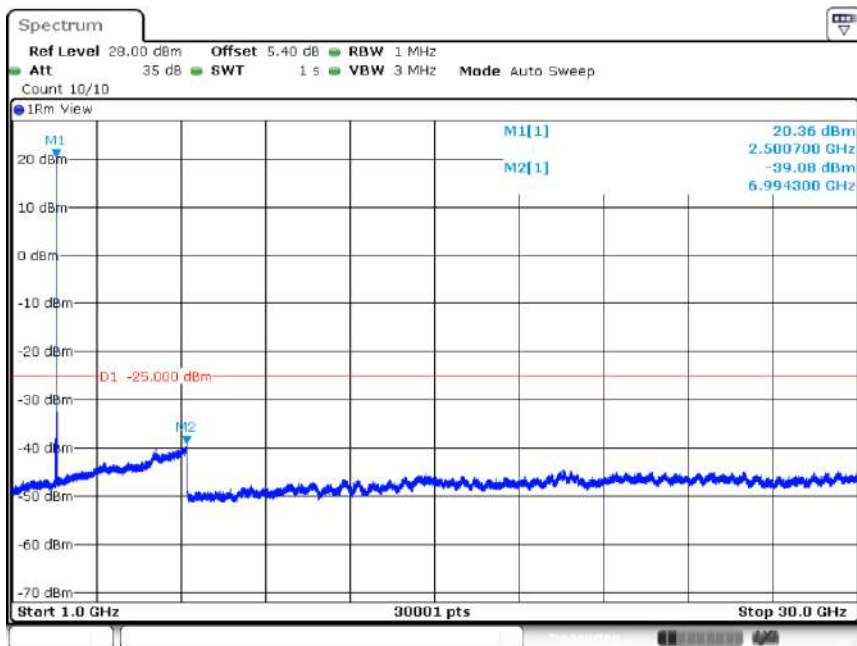
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

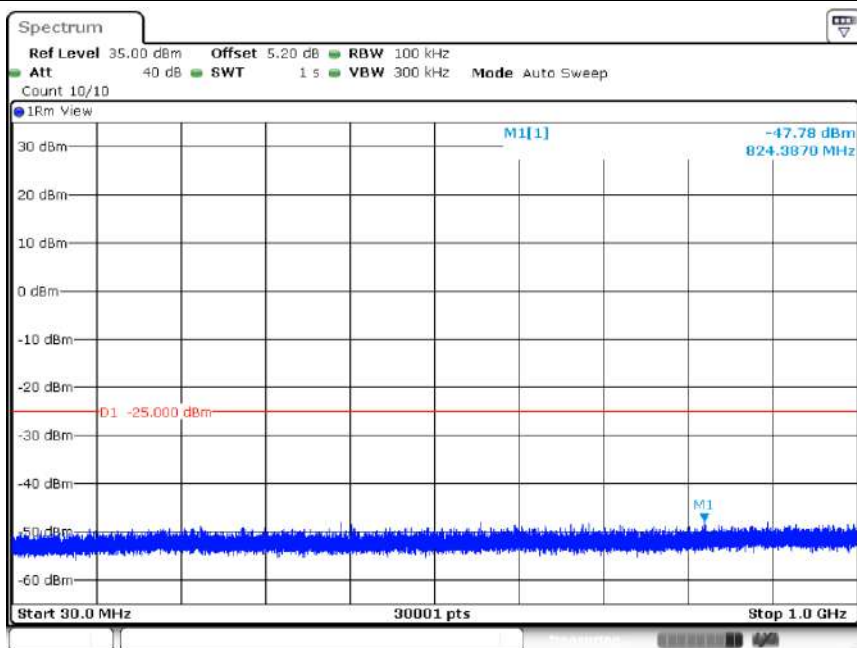


Band7-20MHz-QPSK-20850-1RB#0-Range2:1000~30000MHz



Date: 28 SEP.2020 13:26:34

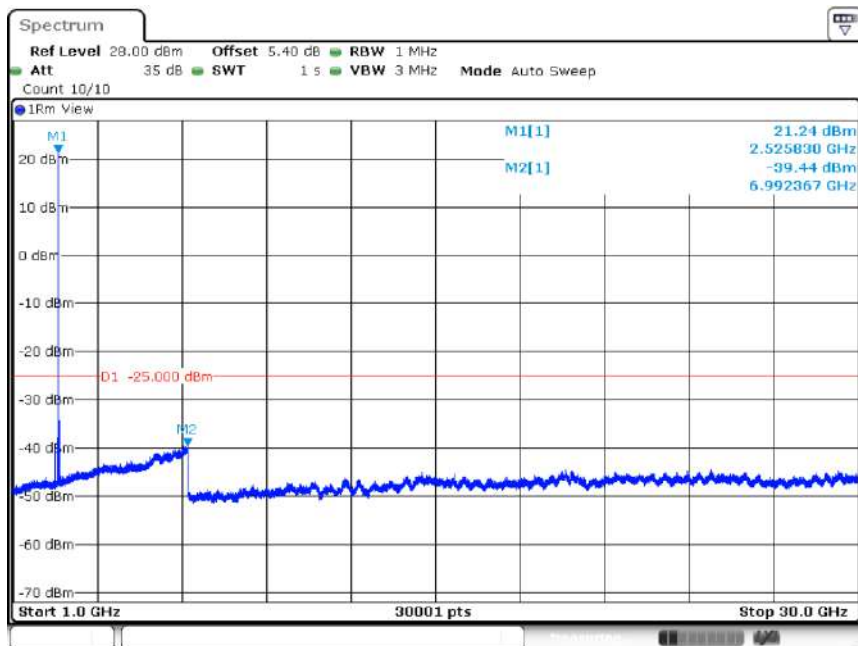
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Date: 28 SEP.2020 13:27:35

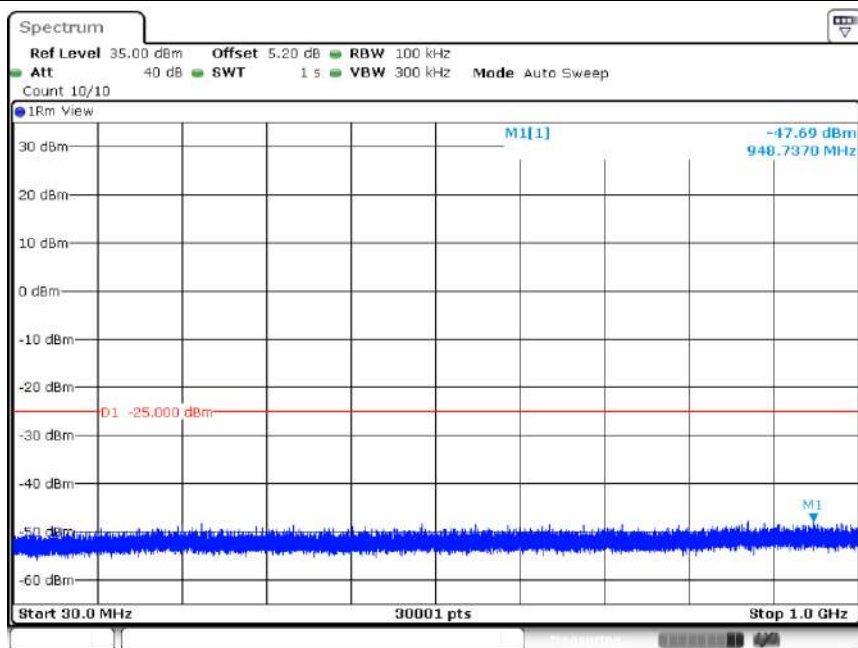


Band7-20MHz-QPSK-21100-1RB#0-Range2:1000~30000MHz



Date: 28 SEP. 2020 13:27:52

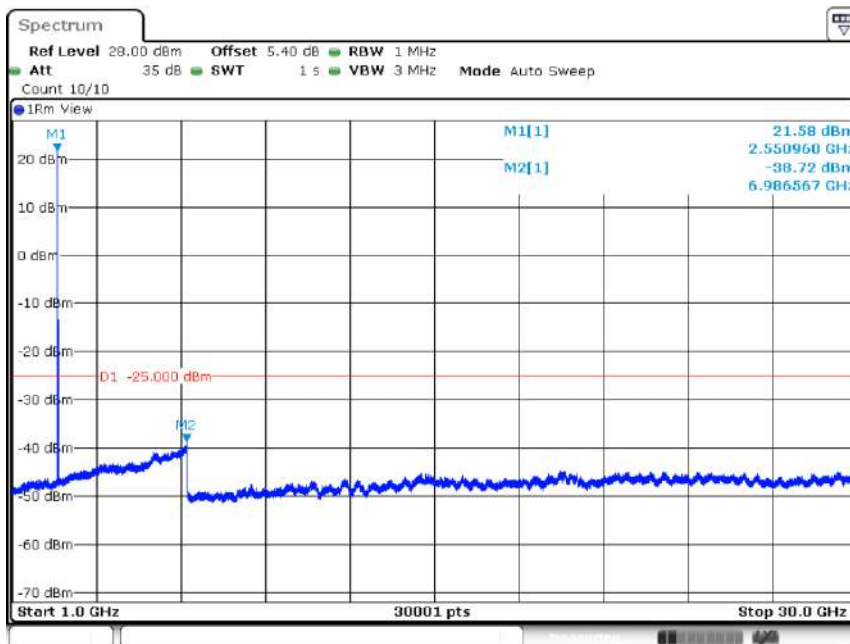
Band7-20MHz-QPSK-21350-1RB#0-Range1:30~1000MHz



Date: 28 SEP. 2020 13:28:53

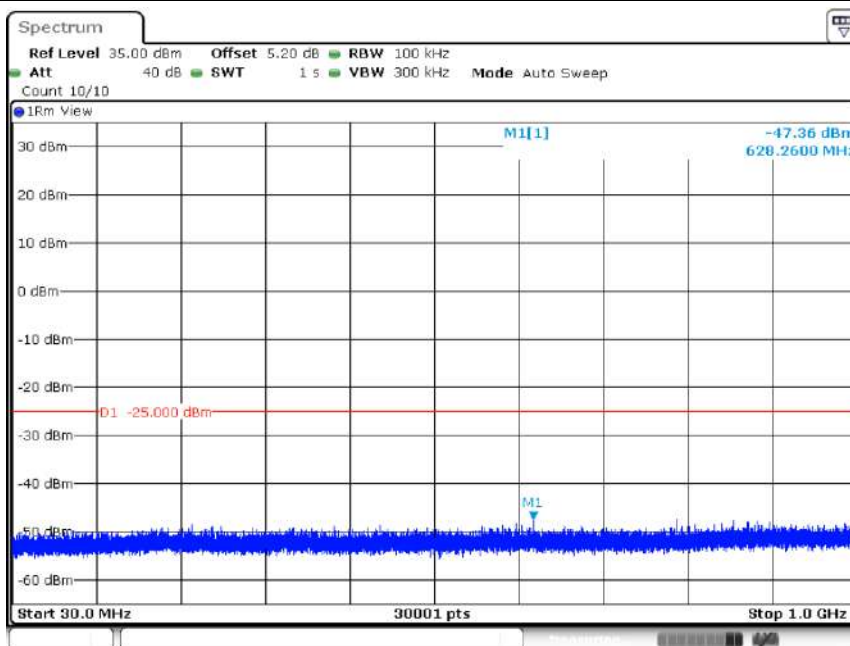


Band7-20MHz-QPSK-21350-1RB#0-Range2:1000~30000MHz



Date: 28 SEP.2020 13:29:10

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



Date: 28 SEP.2020 13:26:56



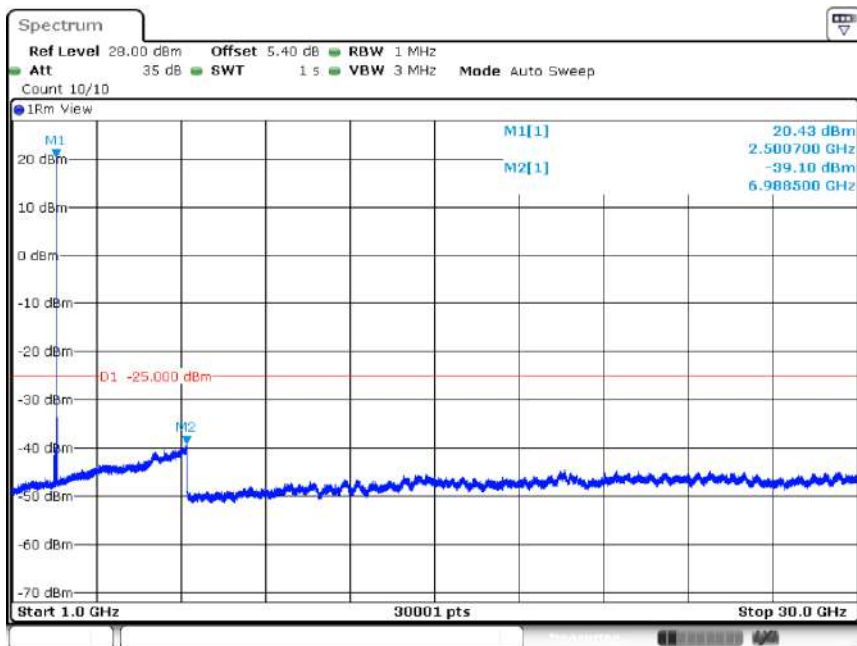
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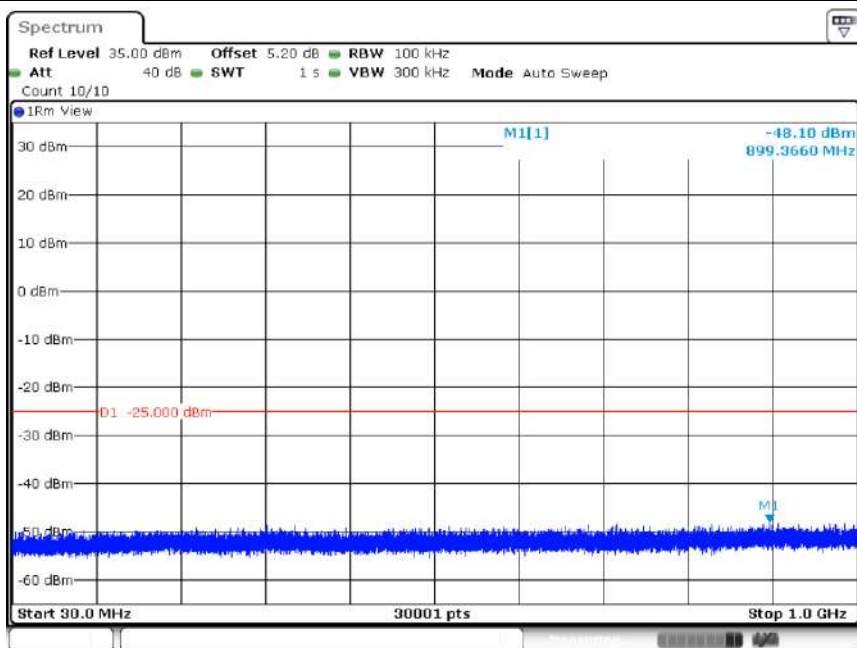
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Band7-20MHz-16QAM-20850-1RB#0-Range2:1000~30000MHz



Date: 28 SEP.2020 13:27:13

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



Date: 28 SEP.2020 13:28:14



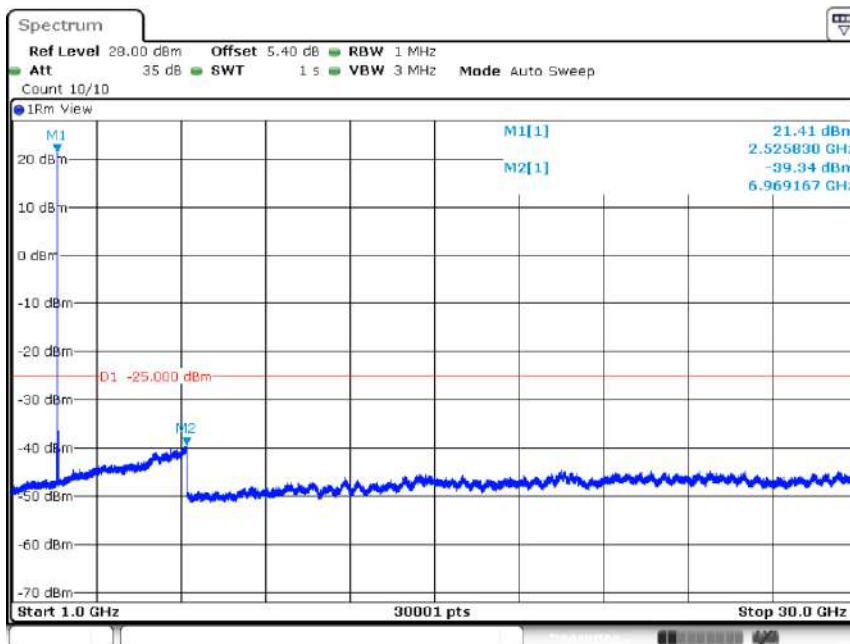
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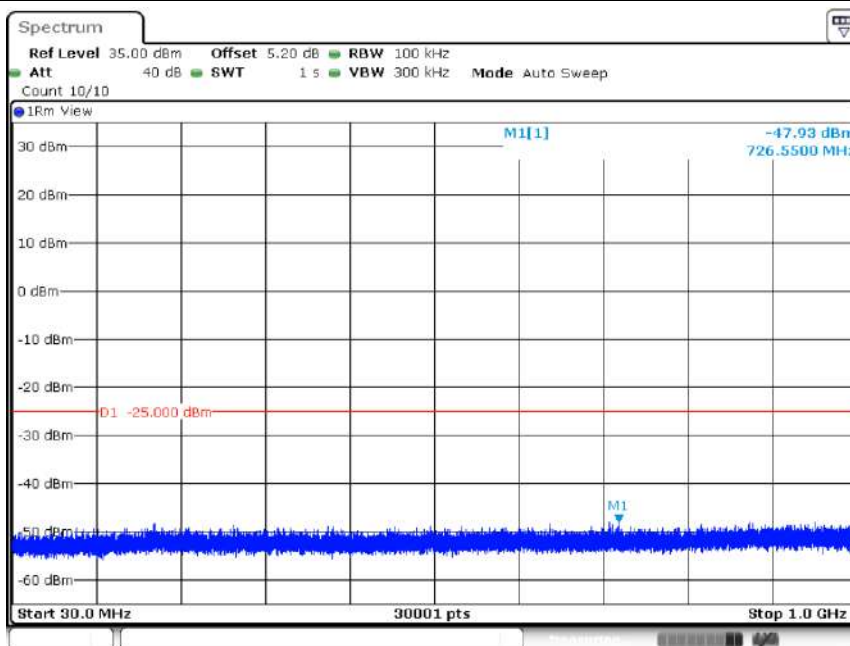
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Band7-20MHz-16QAM-21100-1RB#0-Range2:1000~30000MHz



Date: 28 SEP.2020 13:28:31

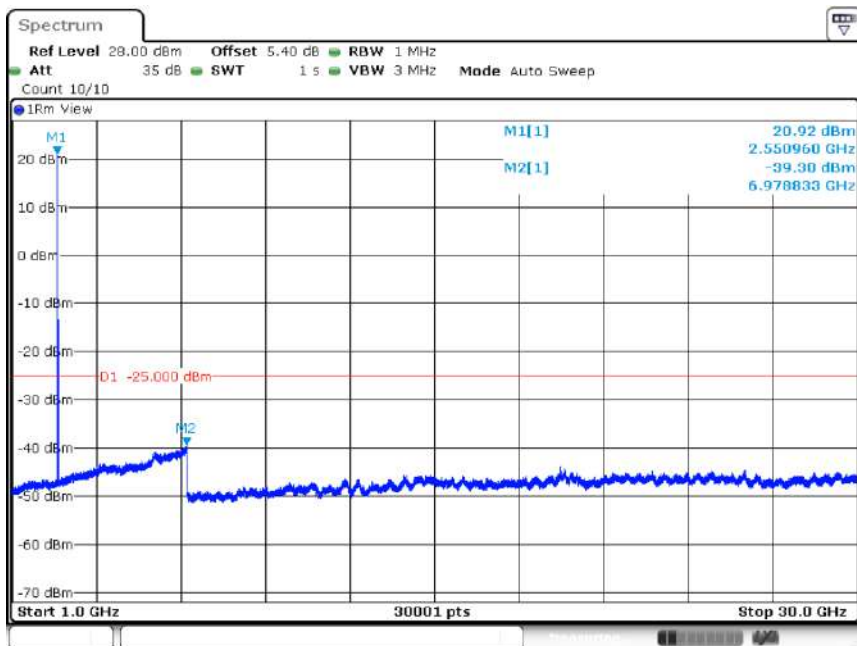
Band7-20MHz-16QAM-21350-1RB#0-Range1:30~1000MHz



Date: 28 SEP.2020 13:29:32



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



Date: 28 SEP.2020 13:29:49



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Shenzhen Branch Inspection & Testing Services Laboratory

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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1.Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
30.0485	-74.33	-25.00	49.33	262	175	Vertical
117.3529	-63.85	-25.00	38.85	284	346	Vertical
596.4113	-64.33	-25.00	39.33	196	154	Vertical
5062.8825	-64.00	-25.00	39.00	278	47	Vertical
10490.0996	-53.88	-25.00	28.88	111	154	Vertical
17999.4000	-42.55	-25.00	17.55	178	260	Vertical
41.9316	-64.30	-25.00	39.30	263	326	Horizontal
108.8164	-76.39	-25.00	51.39	222	326	Horizontal
250.3465	-68.99	-25.00	43.99	284	303	Horizontal
3634.8254	-63.15	-25.00	38.15	196	283	Horizontal
7458.1783	-58.49	-25.00	33.49	111	69	Horizontal
16401.5361	-46.02	-25.00	21.02	184	47	Horizontal

7.1.2.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
30.8730	-74.81	-25.00	49.81	288	260	Vertical
113.4242	-65.37	-25.00	40.37	269	132	Vertical
404.0992	-69.21	-25.00	44.21	245	325	Vertical
7362.7745	-58.24	-25.00	33.24	241	111	Vertical
14518.0607	-50.04	-25.00	25.04	218	196	Vertical
17995.1998	-42.40	-25.00	17.40	199	196	Vertical
45.4723	-65.03	-25.00	40.03	196	155	Horizontal
86.4083	-76.13	-25.00	51.13	111	304	Horizontal
235.0198	-69.63	-25.00	44.63	163	326	Horizontal
3510.0204	-62.96	-25.00	37.96	175	47	Horizontal
7364.5746	-58.96	-25.00	33.96	178	261	Horizontal
16390.1356	-45.72	-25.00	20.72	268	90	Horizontal

7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
30.0000	-74.83	-25.00	49.83	288	175	Vertical
109.7380	-65.33	-25.00	40.33	245	154	Vertical
474.6217	-67.47	-25.00	42.47	162	132	Vertical
3595.8238	-64.37	-25.00	39.37	178	69	Vertical
7917.7967	-58.27	-25.00	33.27	152	154	Vertical
17996.3999	-42.49	-25.00	17.49	199	4	Vertical
42.4651	-64.14	-25.00	39.14	188	175	Horizontal
84.0317	-75.13	-25.00	50.13	122	154	Horizontal
246.0298	-68.73	-25.00	43.73	196	261	Horizontal
3505.8202	-63.56	-25.00	38.56	145	132	Horizontal
7443.7778	-58.79	-25.00	33.79	184	112	Horizontal
16391.9357	-45.92	-25.00	20.92	222	261	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

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	3.10	0.001235	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	2.40	0.000956	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	0.00	0.000000	±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	-3.20	-0.001262	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-1.90	-0.000750	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	-0.70	-0.000273	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	-1.60	-0.000625	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	-1.00	-0.000391	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	2.90	0.001155	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	2.20	0.000876	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	0.00	0.000000	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	-6.00	-0.002367	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	-0.80	-0.000316	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	-2.90	-0.001144	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	0.90	0.000352	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	-0.30	-0.000117	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	0.50	0.000195	±2.5	PASS

8.2. Frequency Vs Temperature

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	5.10	0.002032	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	3.20	0.001275	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-10	3.50	0.001394	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	1.60	0.000637	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	4.80	0.001912	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	1.60	0.000637	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	3.30	0.001315	±2.5	PASS



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Band7	20MHz	QPSK	20850	100RB#0	NV	40	2.20	0.000876	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	2.30	0.000916	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-0.70	-0.000276	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-2.50	-0.000986	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-2.80	-0.001105	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-1.90	-0.000750	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-0.40	-0.000158	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	0.10	0.000039	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-0.50	-0.000197	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-1.70	-0.000671	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	1.00	0.000394	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	0.50	0.000195	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	2.70	0.001055	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-10	0.90	0.000352	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	3.30	0.001289	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	4.20	0.001641	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	3.70	0.001445	±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	40	1.20	0.000469	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	-2.10	-0.000820	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	1.20	0.000478	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	2.80	0.001116	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-10	4.10	0.001633	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	2.30	0.000916	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	4.70	0.001873	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	4.50	0.001793	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	3.70	0.001474	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	2.10	0.000837	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	3.40	0.001355	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	1.20	0.000473	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	-2.30	-0.000907	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-10	0.40	0.000158	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	-3.50	-0.001381	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	-5.70	-0.002249	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	-1.20	-0.000473	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	-3.30	-0.001302	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	-1.80	-0.000710	±2.5	PASS



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Band7	20MHz	16QAM	21100	100RB#0	NV	50	1.60	0.000631	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	1.60	0.000625	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-20	-0.90	-0.000352	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-10	3.00	0.001172	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	0.10	0.000039	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	-0.90	-0.000352	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	2.20	0.000859	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	1.60	0.000625	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	40	2.00	0.000781	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	1.80	0.000703	±2.5	PASS

The End



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