



Appendix B

E-UTRA Band 41



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	limit (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	22.95	24.95	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.29	25.29	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	22.78	24.78	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#0	22.12	24.12	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#6	22.22	24.22	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#13	22.04	24.04	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	22.02	24.02	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	22.81	24.81	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	22.54	24.54	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	22.83	24.83	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#0	21.83	23.83	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#6	21.96	23.96	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#13	21.85	23.85	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	21.80	23.8	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	22.27	24.27	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	22.25	24.25	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	22.37	24.37	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#0	21.43	23.43	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#6	21.48	23.48	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#13	21.34	23.34	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	21.39	23.39	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	21.65	23.65	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	21.86	23.86	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	21.62	23.62	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#6	21.01	23.01	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#0	21.10	23.1	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#13	21.06	23.06	33.00	PASS



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Band41	5MHz	16QAM	39675	25RB#0	21.33	23.33	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	21.45	23.45	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	21.56	23.56	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	21.38	23.38	33.00	PASS
Band41	5MHz	16QAM	40620	12RB#13	20.76	22.76	33.00	PASS
Band41	5MHz	16QAM	40620	12RB#0	20.95	22.95	33.00	PASS
Band41	5MHz	16QAM	40620	12RB#6	20.79	22.79	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	20.82	22.82	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	21.06	23.06	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	21.03	23.03	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	20.94	22.94	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#0	20.42	22.42	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#6	20.46	22.46	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#13	20.32	22.32	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	20.39	22.39	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	23.37	25.37	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	22.83	24.83	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	22.96	24.96	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#0	22.23	24.23	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#12	22.11	24.11	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#25	22.21	24.21	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	22.18	24.18	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	22.67	24.67	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	22.61	24.61	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.17	25.17	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#25	21.83	23.83	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#0	21.96	23.96	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#12	21.90	23.9	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	21.90	23.9	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	22.55	24.55	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	22.22	24.22	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	22.10	24.1	33.00	PASS
Band41	10MHz	QPSK	41540	25RB#0	21.52	23.52	33.00	PASS



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Band41	10MHz	QPSK	41540	25RB#25	21.27	23.27	33.00	PASS
Band41	10MHz	QPSK	41540	25RB#12	21.51	23.51	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	21.46	23.46	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	21.83	23.83	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	21.77	23.77	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	21.94	23.94	33.00	PASS
Band41	10MHz	16QAM	39700	25RB#25	21.20	23.2	33.00	PASS
Band41	10MHz	16QAM	39700	25RB#12	21.21	23.21	33.00	PASS
Band41	10MHz	16QAM	39700	25RB#0	21.13	23.13	33.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	21.09	23.09	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	21.41	23.41	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#0	21.36	23.36	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	21.78	23.78	33.00	PASS
Band41	10MHz	16QAM	40620	25RB#25	20.95	22.95	33.00	PASS
Band41	10MHz	16QAM	40620	25RB#0	20.97	22.97	33.00	PASS
Band41	10MHz	16QAM	40620	25RB#12	20.83	22.83	33.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	20.79	22.79	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	21.25	23.25	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	21.07	23.07	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	20.94	22.94	33.00	PASS
Band41	10MHz	16QAM	41540	25RB#0	20.34	22.34	33.00	PASS
Band41	10MHz	16QAM	41540	25RB#12	20.49	22.49	33.00	PASS
Band41	10MHz	16QAM	41540	25RB#25	20.47	22.47	33.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	20.34	22.34	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	22.77	24.77	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.20	25.2	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	22.78	24.78	33.00	PASS
Band41	15MHz	QPSK	39725	36RB#0	22.02	24.02	33.00	PASS
Band41	15MHz	QPSK	39725	36RB#18	22.15	24.15	33.00	PASS
Band41	15MHz	QPSK	39725	36RB#39	22.00	24	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	22.08	24.08	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	22.57	24.57	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	22.54	24.54	33.00	PASS



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Band41	15MHz	QPSK	40620	1RB#38	22.88	24.88	33.00	PASS
Band41	15MHz	QPSK	40620	36RB#0	21.99	23.99	33.00	PASS
Band41	15MHz	QPSK	40620	36RB#18	21.90	23.9	33.00	PASS
Band41	15MHz	QPSK	40620	36RB#39	21.79	23.79	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	21.91	23.91	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	22.09	24.09	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	22.19	24.19	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	22.46	24.46	33.00	PASS
Band41	15MHz	QPSK	41515	36RB#0	21.47	23.47	33.00	PASS
Band41	15MHz	QPSK	41515	36RB#18	21.45	23.45	33.00	PASS
Band41	15MHz	QPSK	41515	36RB#39	21.27	23.27	33.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	21.45	23.45	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	21.57	23.57	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	21.58	23.58	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	21.52	23.52	33.00	PASS
Band41	15MHz	16QAM	39725	36RB#18	21.13	23.13	33.00	PASS
Band41	15MHz	16QAM	39725	36RB#0	21.08	23.08	33.00	PASS
Band41	15MHz	16QAM	39725	36RB#39	20.99	22.99	33.00	PASS
Band41	15MHz	16QAM	39725	75RB#0	21.14	23.14	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	21.38	23.38	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	21.49	23.49	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	21.51	23.51	33.00	PASS
Band41	15MHz	16QAM	40620	36RB#39	20.97	22.97	33.00	PASS
Band41	15MHz	16QAM	40620	36RB#0	21.07	23.07	33.00	PASS
Band41	15MHz	16QAM	40620	36RB#18	20.89	22.89	33.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	20.88	22.88	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	20.94	22.94	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	21.09	23.09	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	20.99	22.99	33.00	PASS
Band41	15MHz	16QAM	41515	36RB#0	20.40	22.4	33.00	PASS
Band41	15MHz	16QAM	41515	36RB#18	20.43	22.43	33.00	PASS
Band41	15MHz	16QAM	41515	36RB#39	20.45	22.45	33.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	20.41	22.41	33.00	PASS



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Band41	20MHz	QPSK	39750	1RB#99	22.92	24.92	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	23.77	25.77	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	23.10	25.1	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#0	22.50	24.5	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#25	22.46	24.46	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#50	22.27	24.27	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	22.33	24.33	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	22.85	24.85	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	22.79	24.79	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	23.46	25.46	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#50	22.08	24.08	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#0	22.30	24.3	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#25	22.27	24.27	33.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.10	24.1	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	22.82	24.82	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	22.48	24.48	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	22.21	24.21	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#0	21.86	23.86	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#50	21.55	23.55	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#25	21.80	23.8	33.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	21.76	23.76	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	21.80	23.8	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	21.91	23.91	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	22.27	24.27	33.00	PASS
Band41	20MHz	16QAM	39750	50RB#50	21.35	23.35	33.00	PASS
Band41	20MHz	16QAM	39750	50RB#25	21.35	23.35	33.00	PASS
Band41	20MHz	16QAM	39750	50RB#0	21.57	23.57	33.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	21.43	23.43	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	21.69	23.69	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	21.68	23.68	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	22.00	24	33.00	PASS
Band41	20MHz	16QAM	40620	50RB#50	21.16	23.16	33.00	PASS
Band41	20MHz	16QAM	40620	50RB#0	21.19	23.19	33.00	PASS



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Band41	20MHz	16QAM	40620	50RB#25	21.15	23.15	33.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	21.20	23.2	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	21.56	23.56	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	21.33	23.33	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	21.16	23.16	33.00	PASS
Band41	20MHz	16QAM	41490	50RB#0	20.77	22.77	33.00	PASS
Band41	20MHz	16QAM	41490	50RB#25	20.77	22.77	33.00	PASS
Band41	20MHz	16QAM	41490	50RB#50	20.73	22.73	33.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	20.75	22.75	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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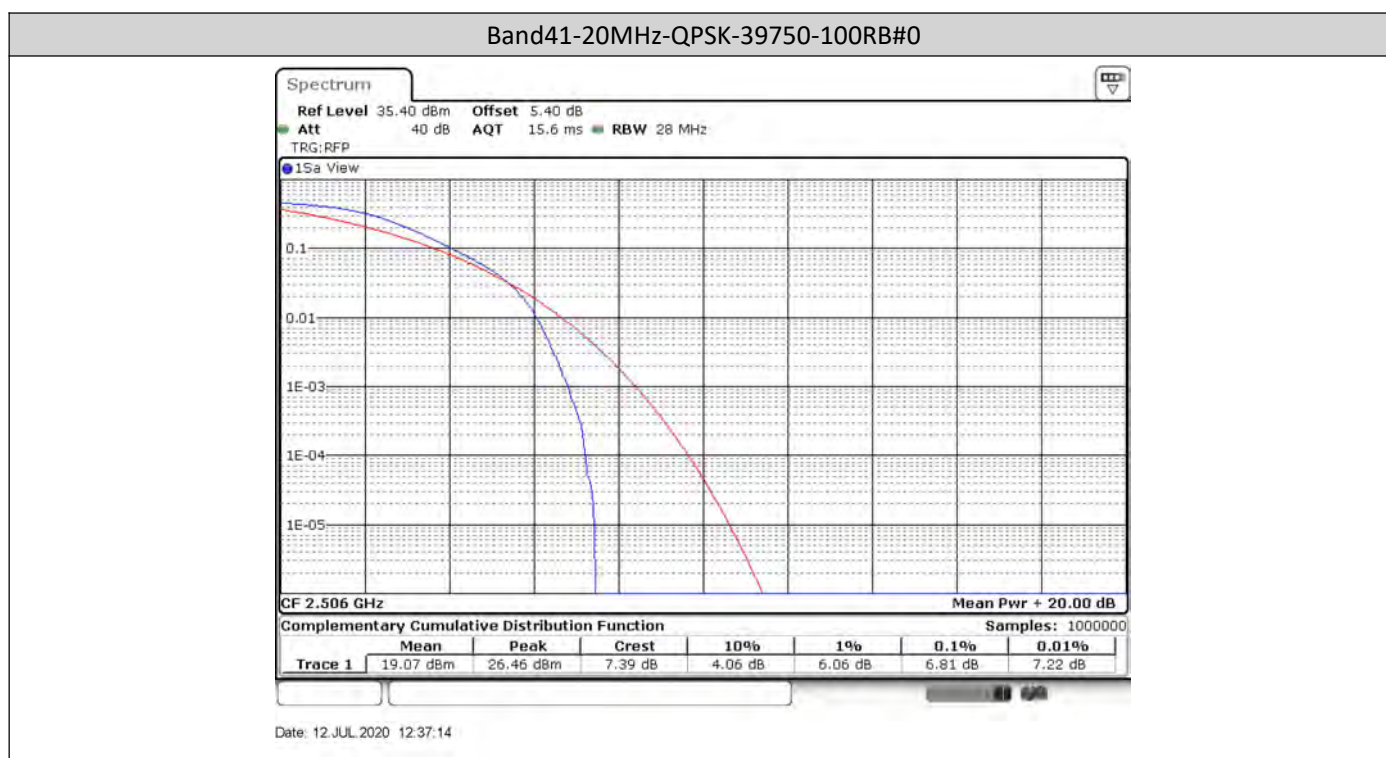


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

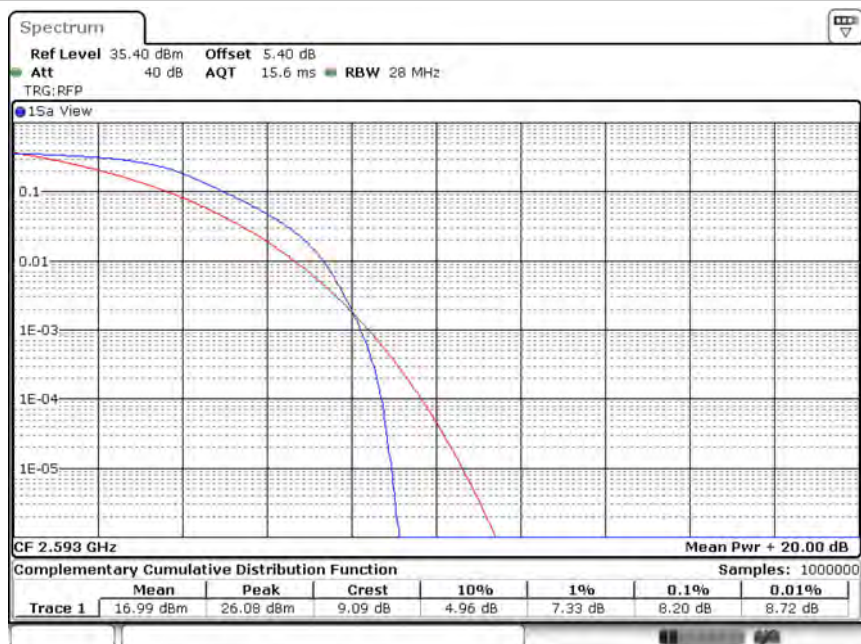
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	6.81	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	8.20	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	8.23	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	9.13	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	9.19	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	9.01	13	PASS

2.2. Test Plots



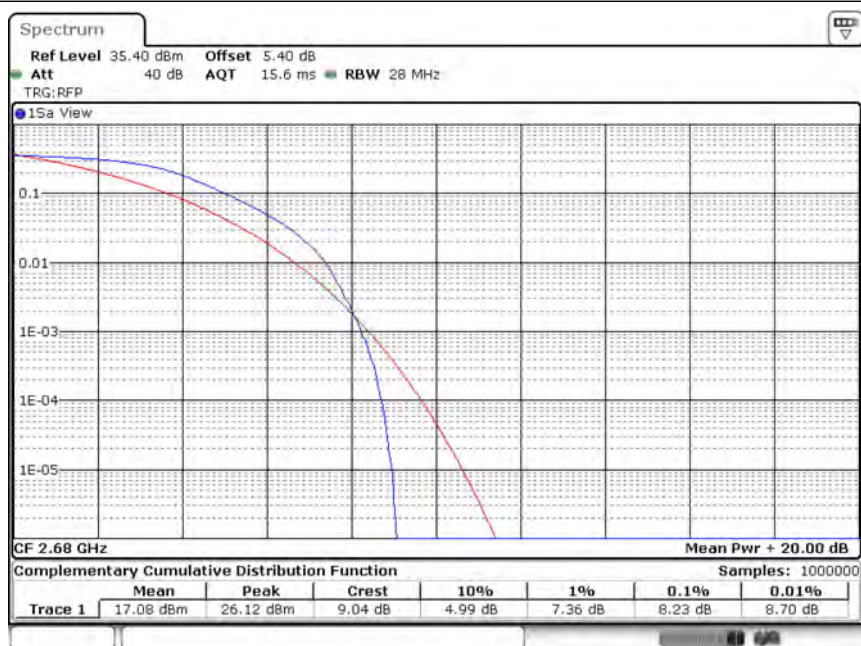


Band41-20MHz-QPSK-40620-100RB#0



Date: 12 JUL 2020 12:37:37

Band41-20MHz-QPSK-41490-100RB#0

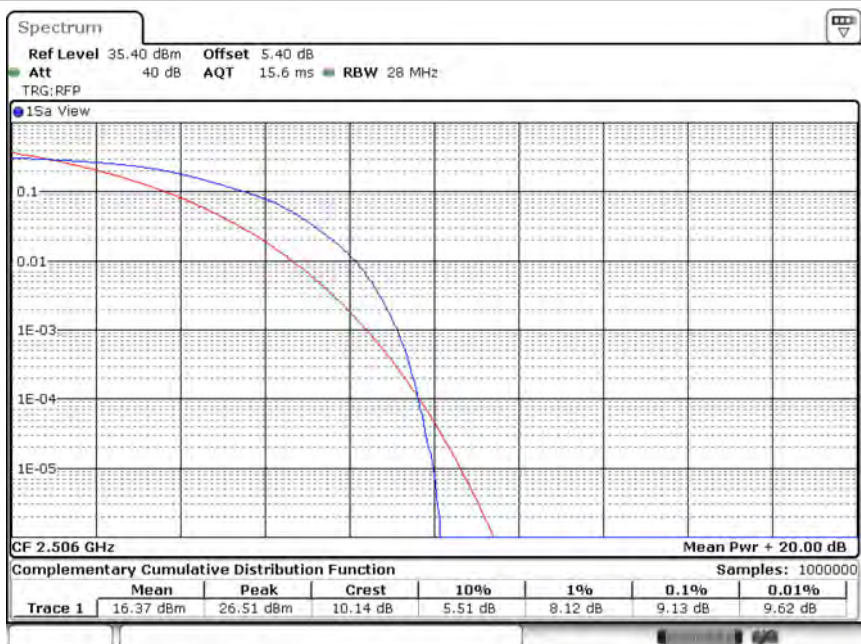


Date: 12 JUL 2020 12:38:00



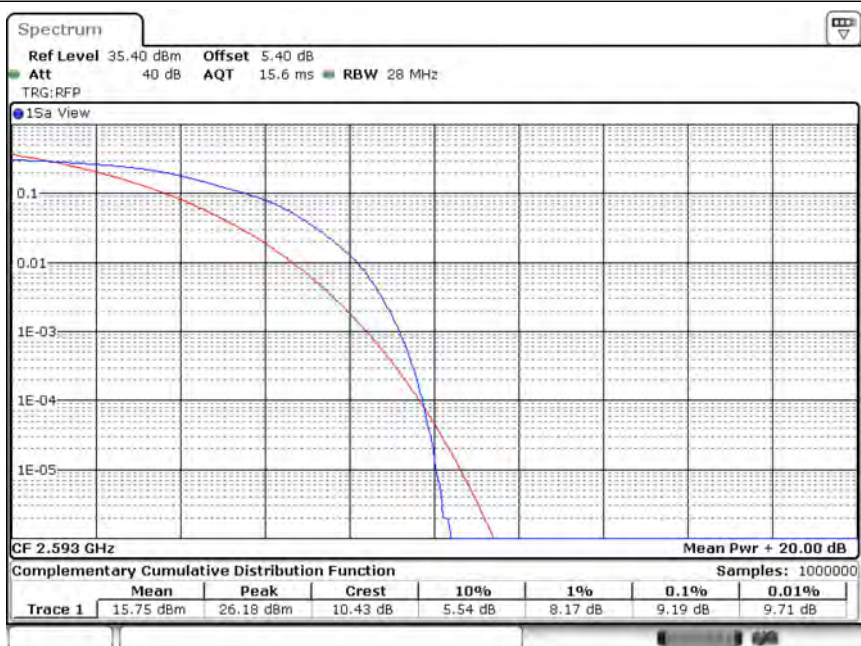


Band41-20MHz-16QAM-39750-100RB#0



Date: 12 JUL 2020 12:37:26

Band41-20MHz-16QAM-40620-100RB#0

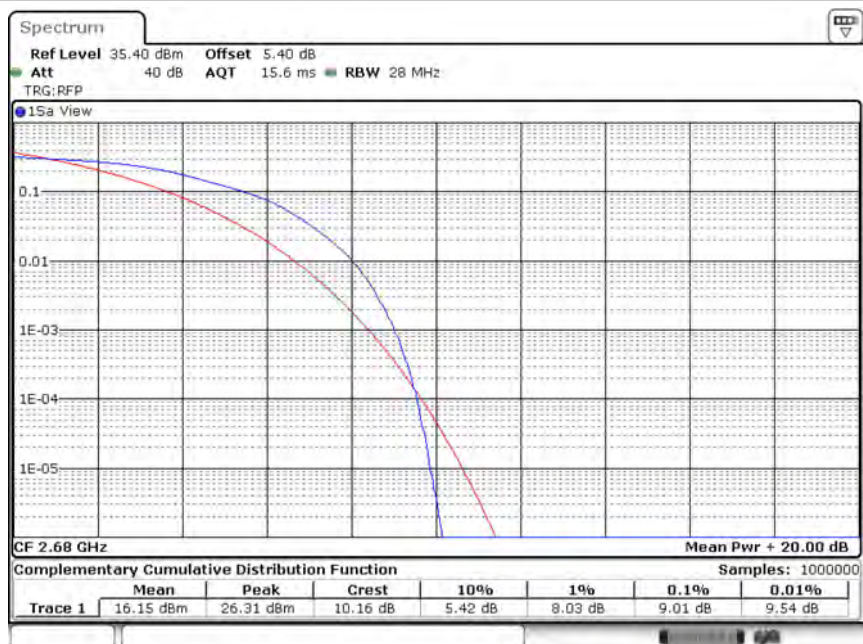


Date: 12 JUL 2020 12:37:48





Band41-20MHz-16QAM-41490-100RB#0



Date: 12 JUL 2020 12:38:11

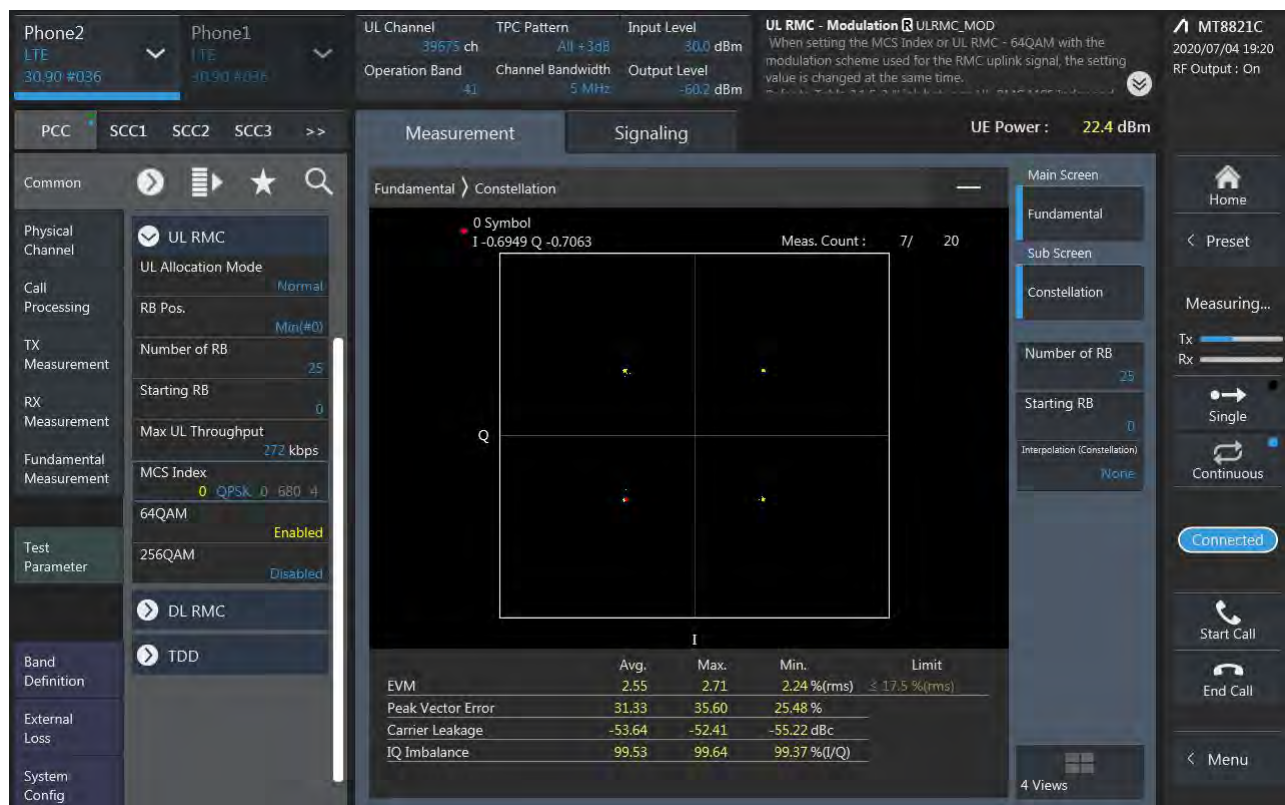




3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

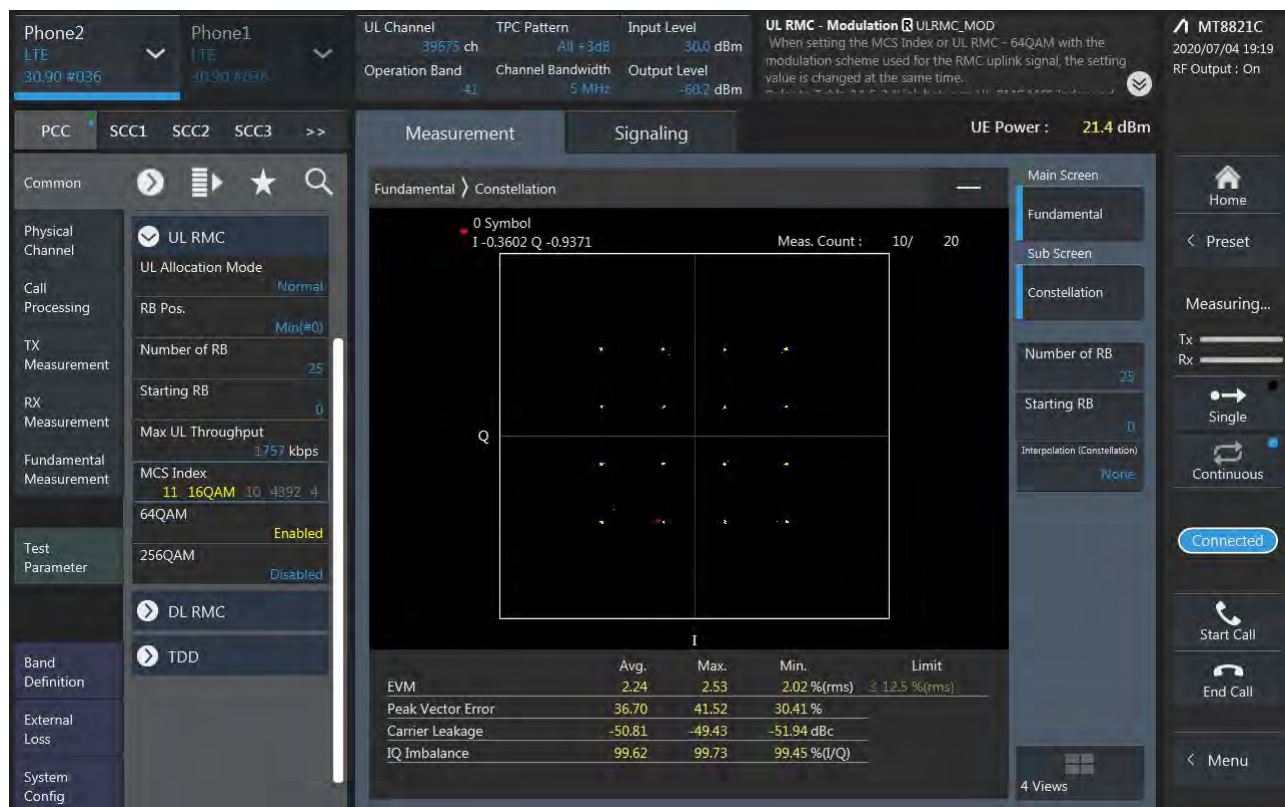
3.1.1. Test Channel = MCH





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	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.476	5.390	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.476	5.130	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.476	5.100	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.496	4.970	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.486	4.900	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.496	4.970	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.911	10.900	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.911	10.800	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.911	10.560	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.931	10.980	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.911	9.880	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.911	9.720	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.636	27.240	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.546	19.380	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.487	17.190	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.516	22.320	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.487	16.080	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.457	16.050	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.902	20.440	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.902	20.160	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.902	20.120	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.902	25.560	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.862	24.720	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.862	19.760	PASS



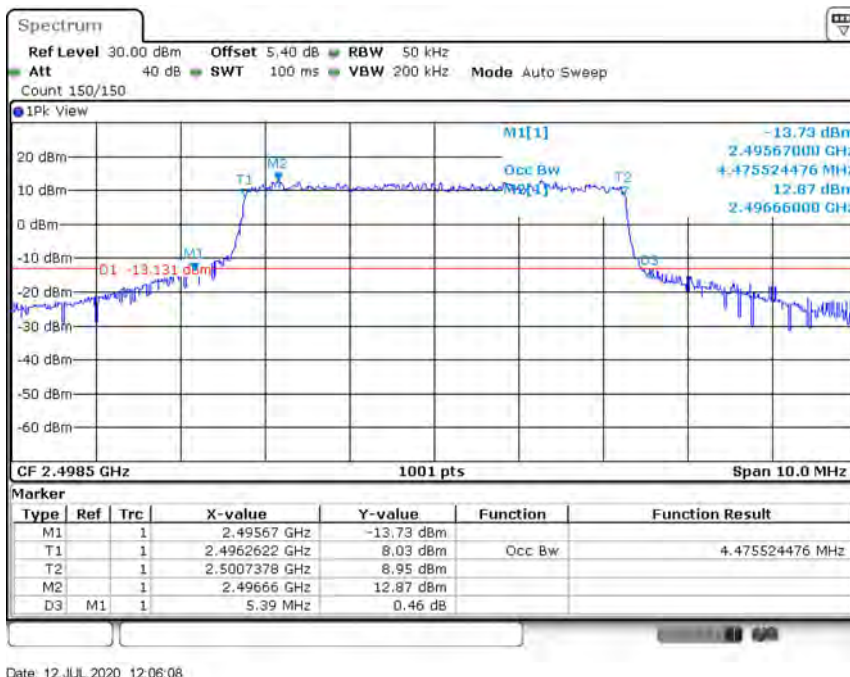
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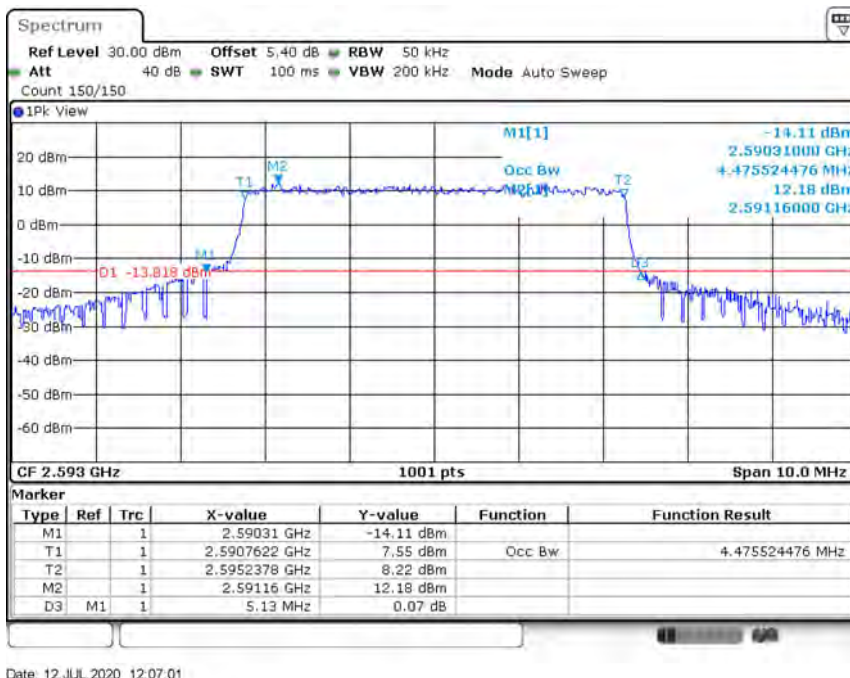


4.2. Test Plots

Band41-5MHz-QPSK-39675-25RB#0-4.476



Band41-5MHz-QPSK-40620-25RB#0-4.476

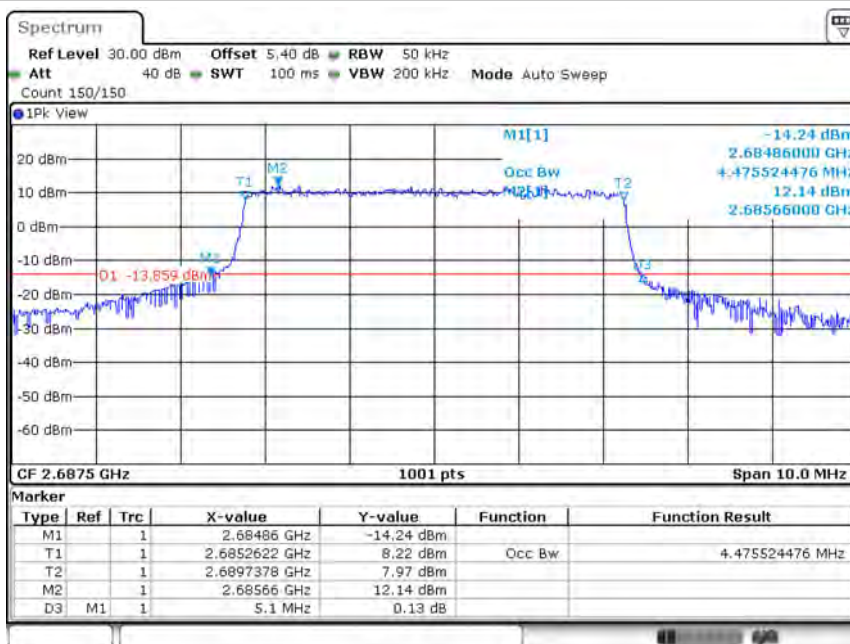


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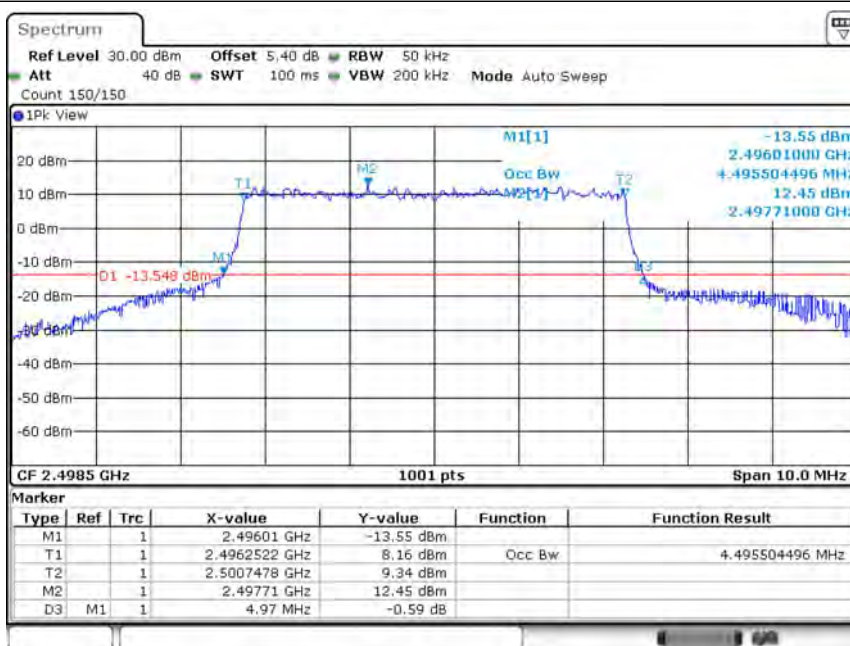


Band41-5MHz-QPSK-41565-25RB#0-4.476



Date: 12 JUL 2020 12:07:53

Band41-5MHz-16QAM-39675-25RB#0-4.496



Date: 12 JUL 2020 12:06:34

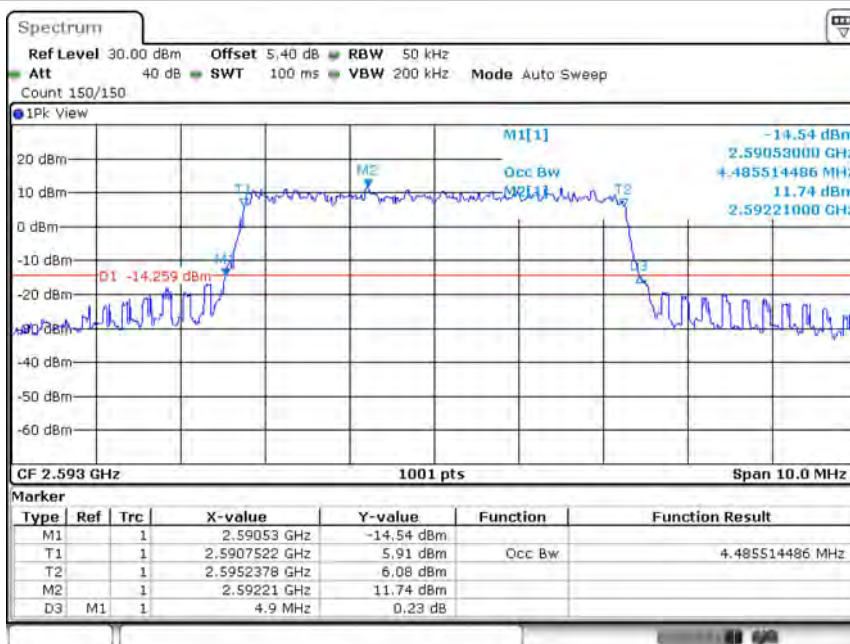


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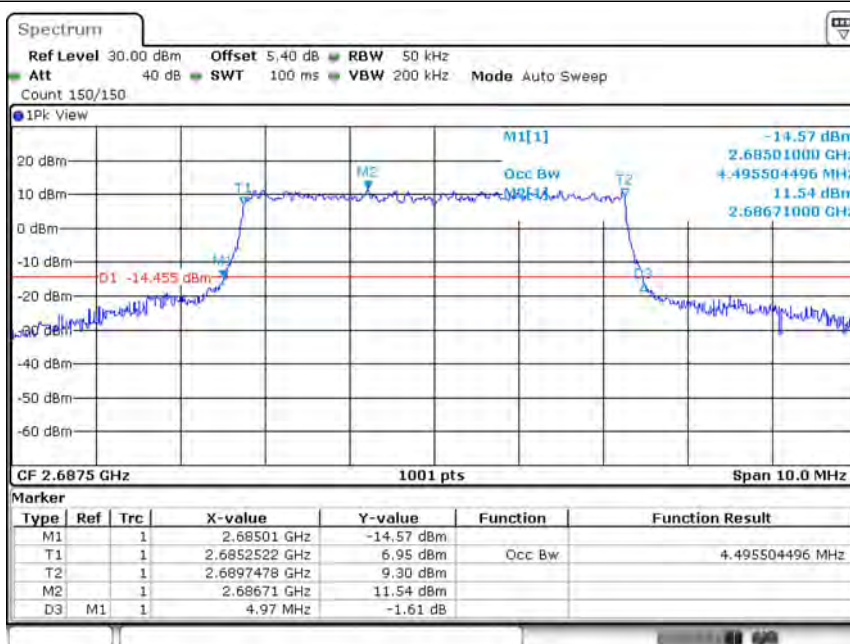
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Band41-5MHz-16QAM-40620-25RB#0-4.486



Date: 12 JUL 2020 12:07:27

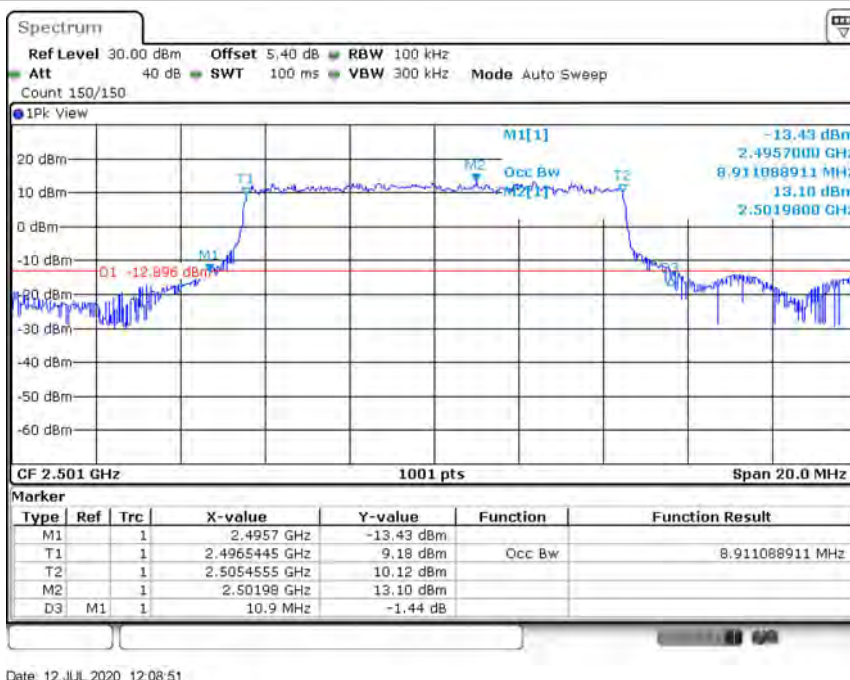
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Date: 12 JUL 2020 12:08:19

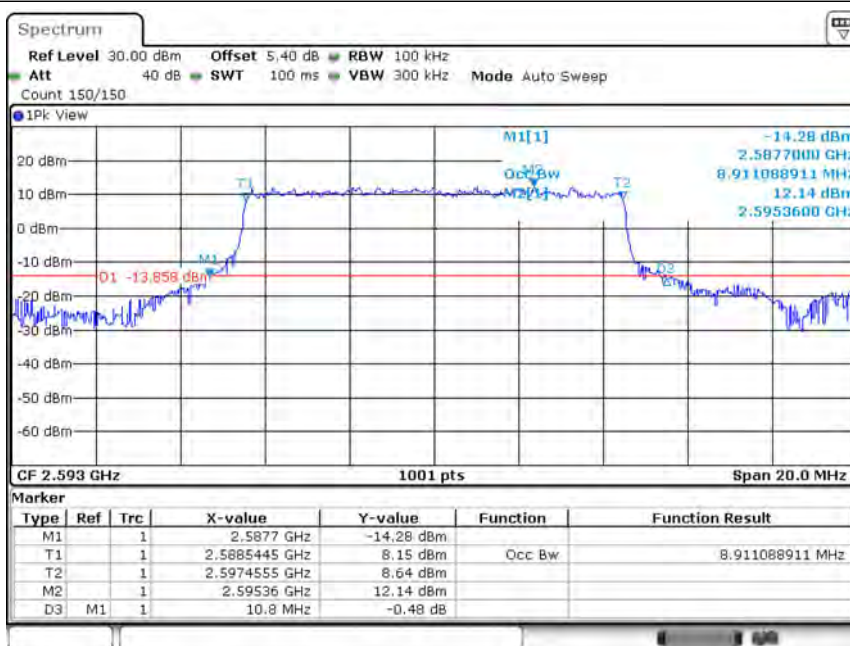


Band41-10MHz-QPSK-39700-50RB#0-8.911



Date: 12 JUL 2020 12:08:51

Band41-10MHz-QPSK-40620-50RB#0-8.911



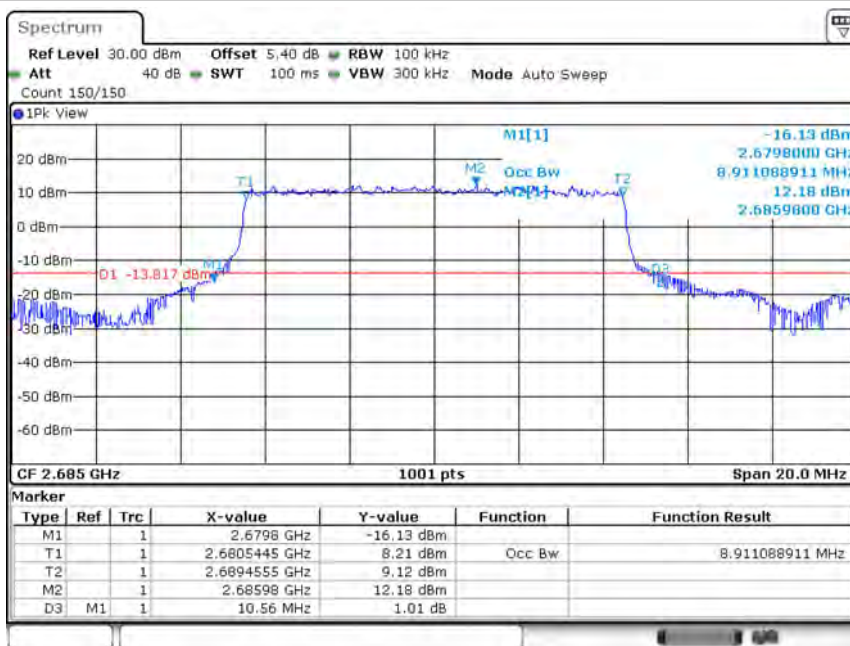
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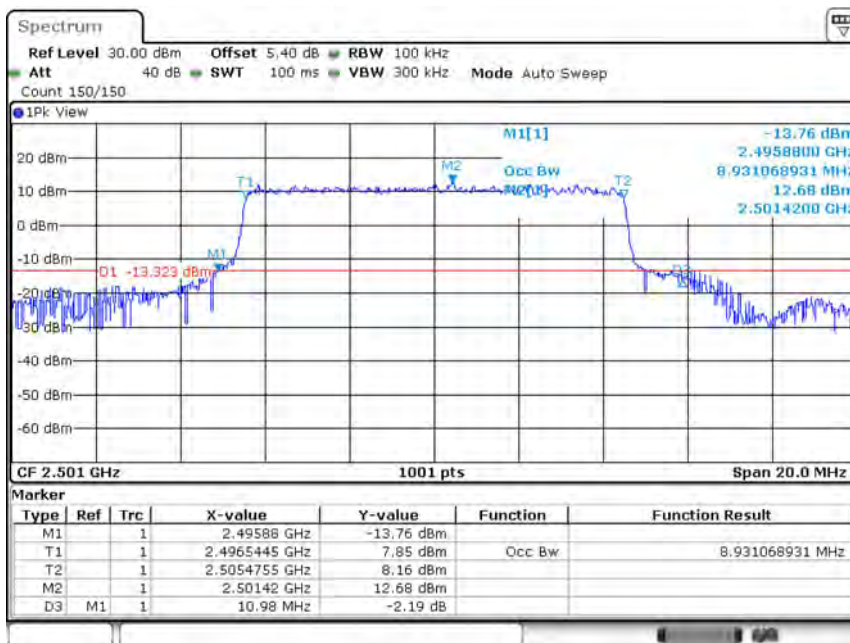
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Band41-10MHz-QPSK-41540-50RB#0-8.911



Date: 12 JUL 2020 12:10:36

Band41-10MHz-16QAM-39700-50RB#0-8.931

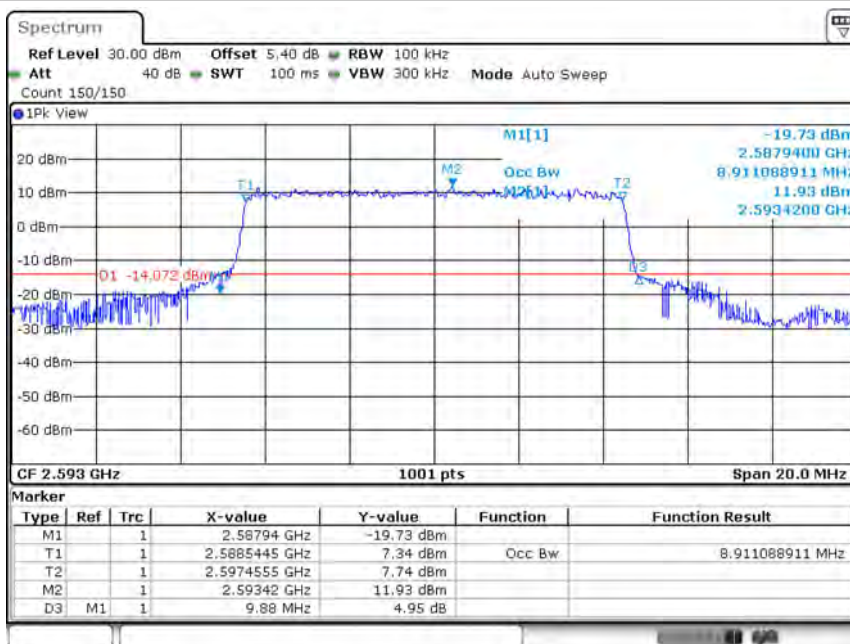


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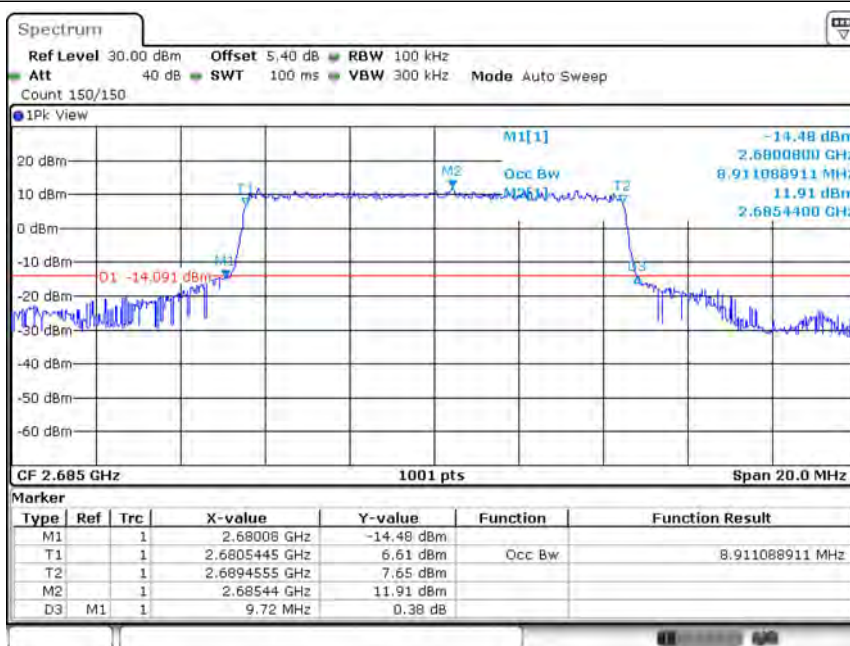


Band41-10MHz-16QAM-40620-50RB#0-8.911



Date: 12 JUL 2020 12:10:09

Band41-10MHz-16QAM-41540-50RB#0-8.911



Date: 12 JUL 2020 12:11:02

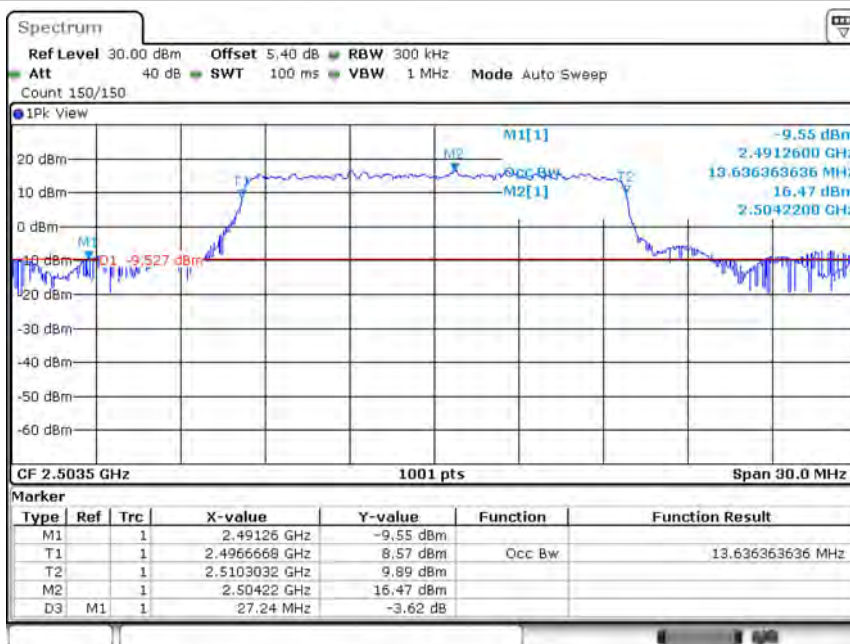


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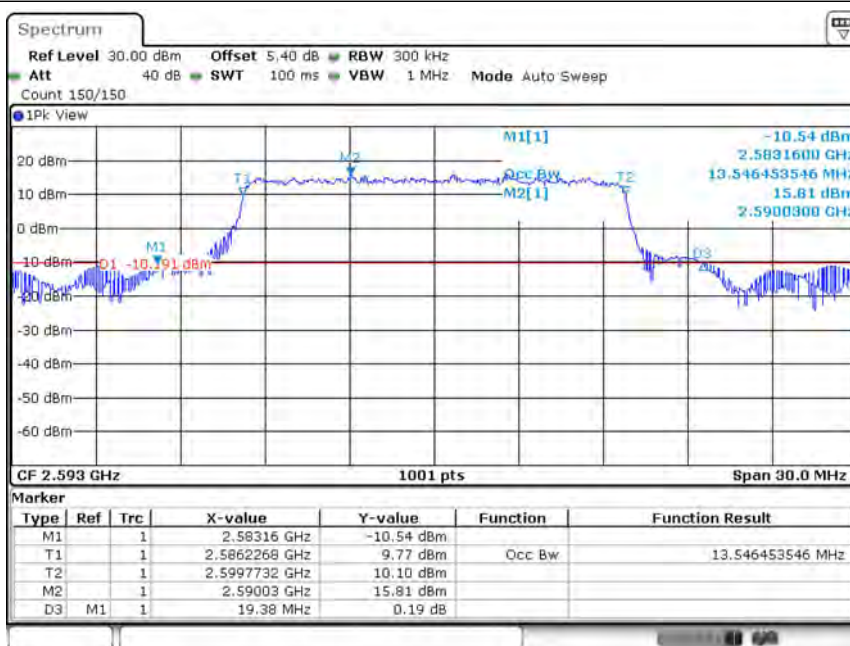


Band41-15MHz-QPSK-39725-75RB#0-13.636



Date: 12 JUL 2020 12:11:33

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Date: 12 JUL 2020 12:12:26



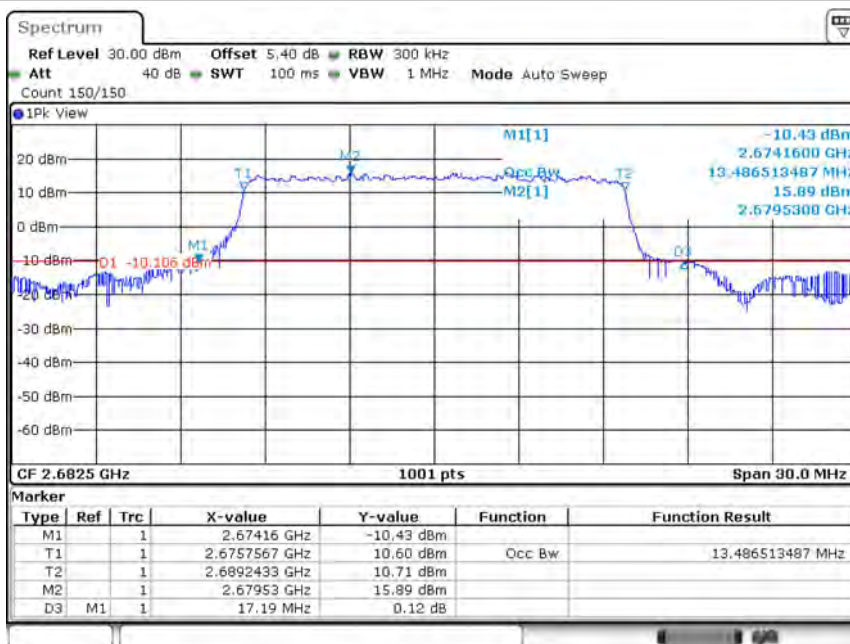
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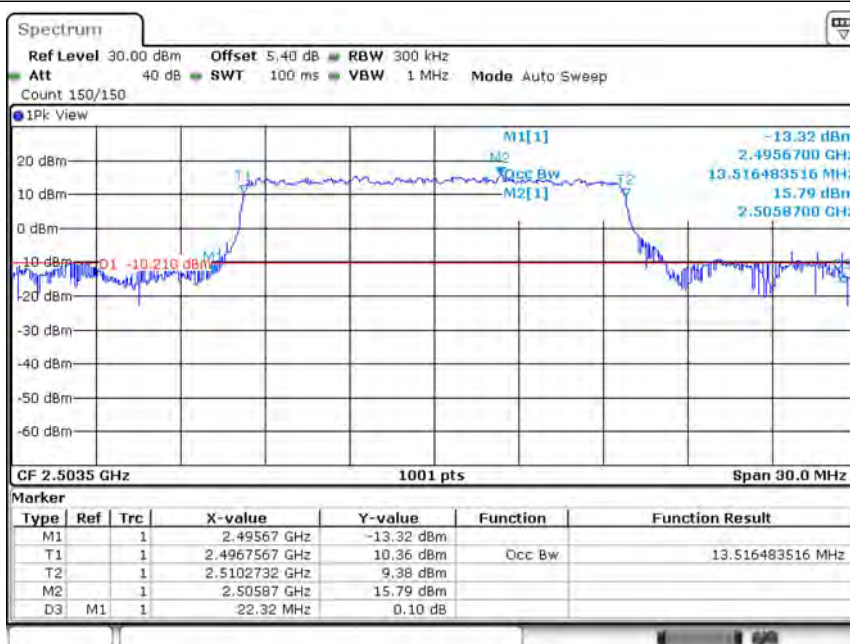


Band41-15MHz-QPSK-41515-75RB#0-13.487



Date: 12 JUL 2020 12:13:19

Band41-15MHz-16QAM-39725-75RB#0-13.516



Date: 12 JUL 2020 12:11:59

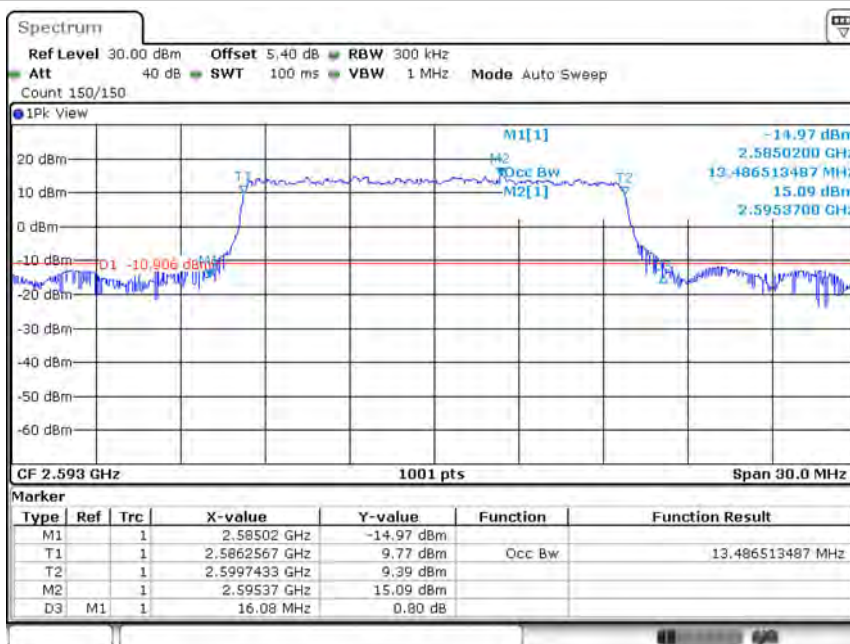


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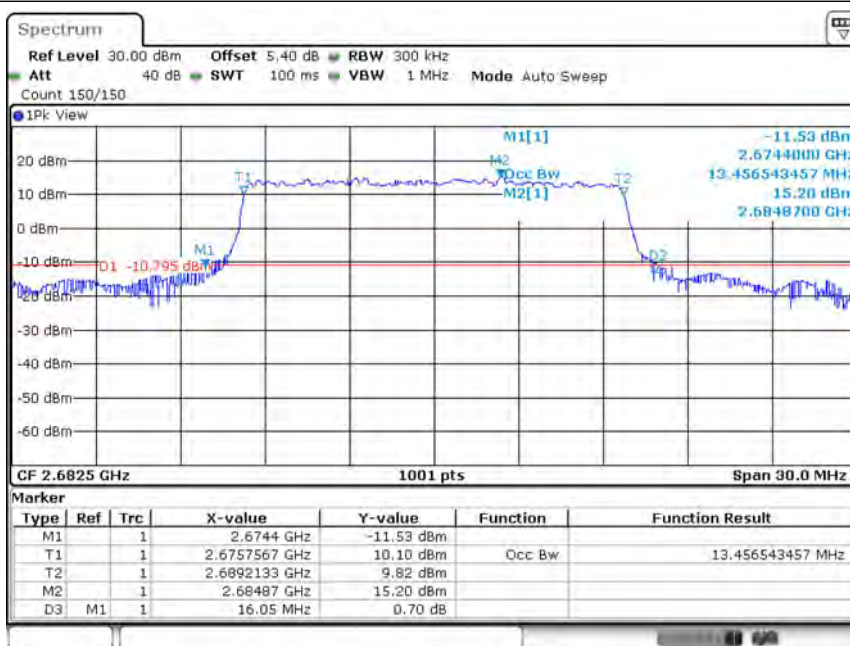


Band41-15MHz-16QAM-40620-75RB#0-13.487



Date: 12 JUL 2020 12:12:52

Band41-15MHz-16QAM-41515-75RB#0-13.457



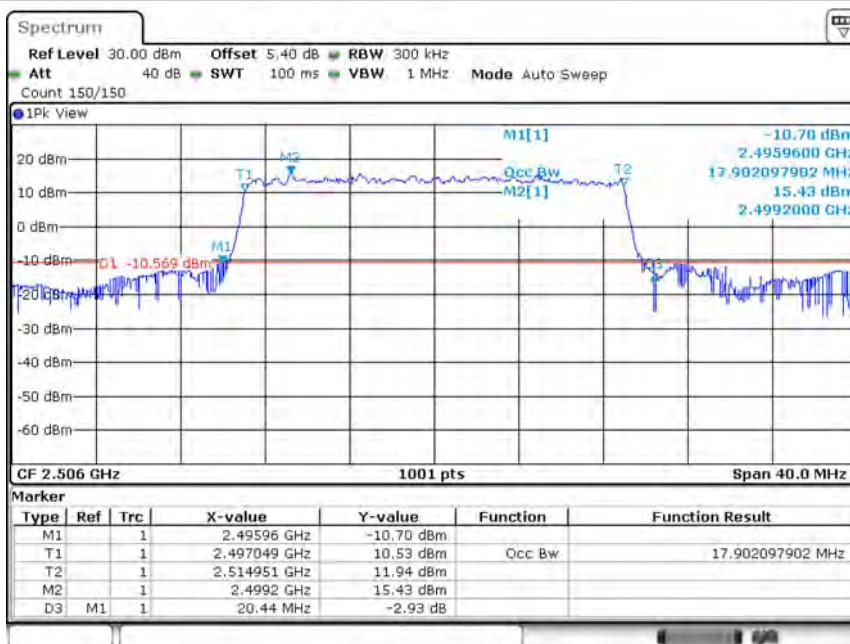
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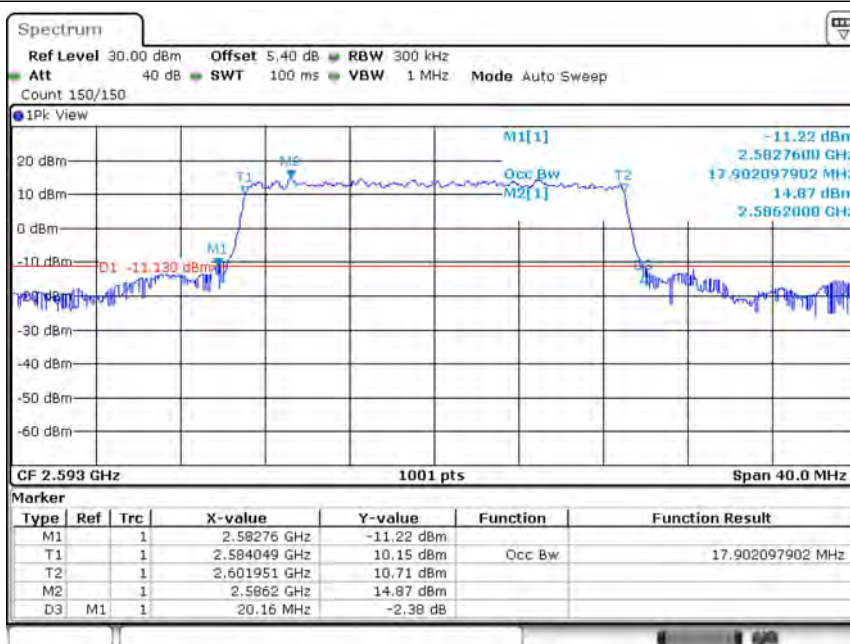
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Band41-20MHz-QPSK-39750-100RB#0-17.902



Date: 12 JUL 2020 12:14:16

Band41-20MHz-QPSK-40620-100RB#0-17.902

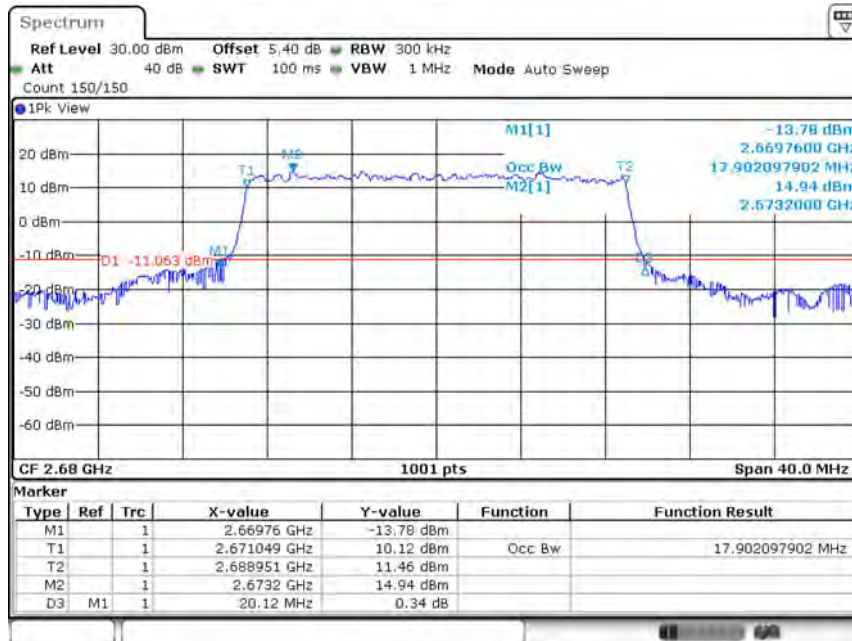


Date: 12 JUL 2020 12:15:18



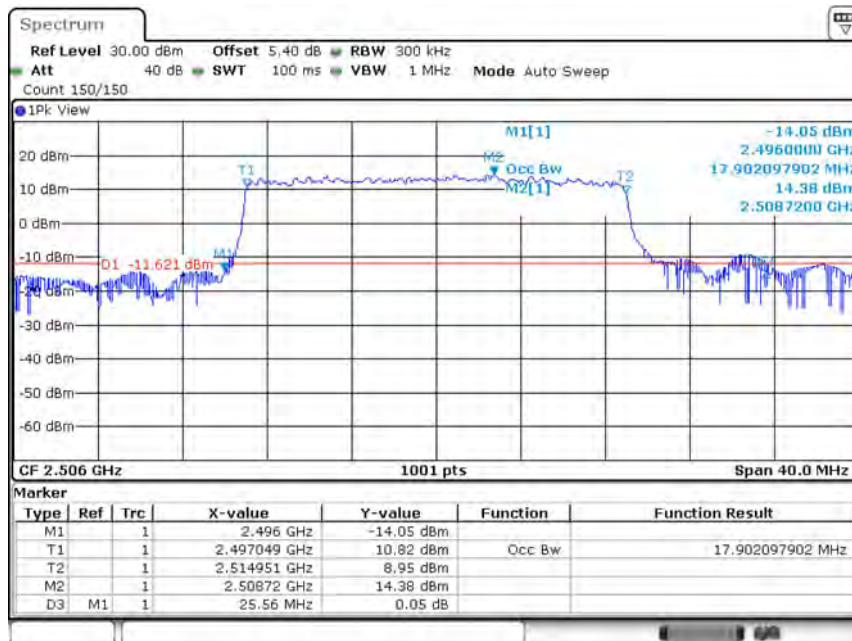


Band41-20MHz-QPSK-41490-100RB#0-17.902



Date: 12 JUL 2020 12:16:13

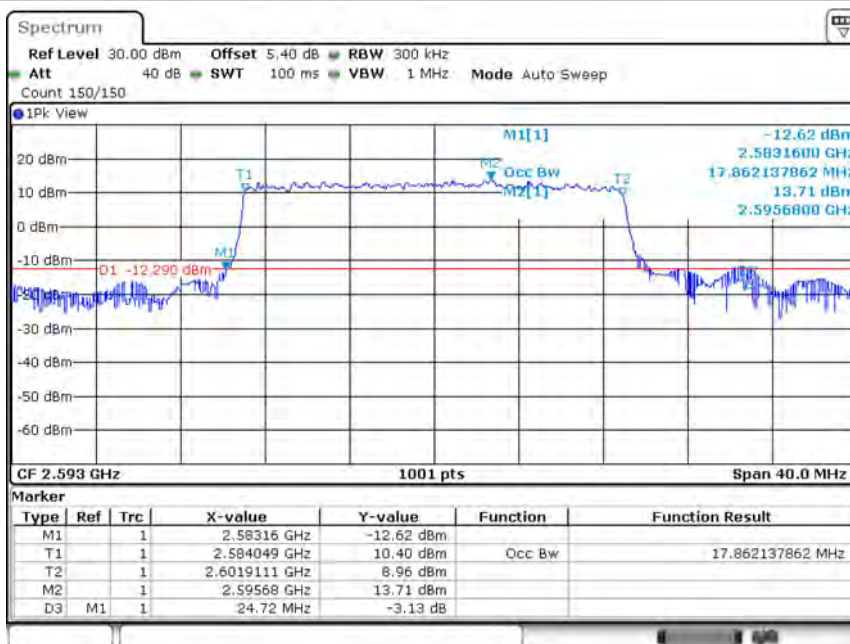
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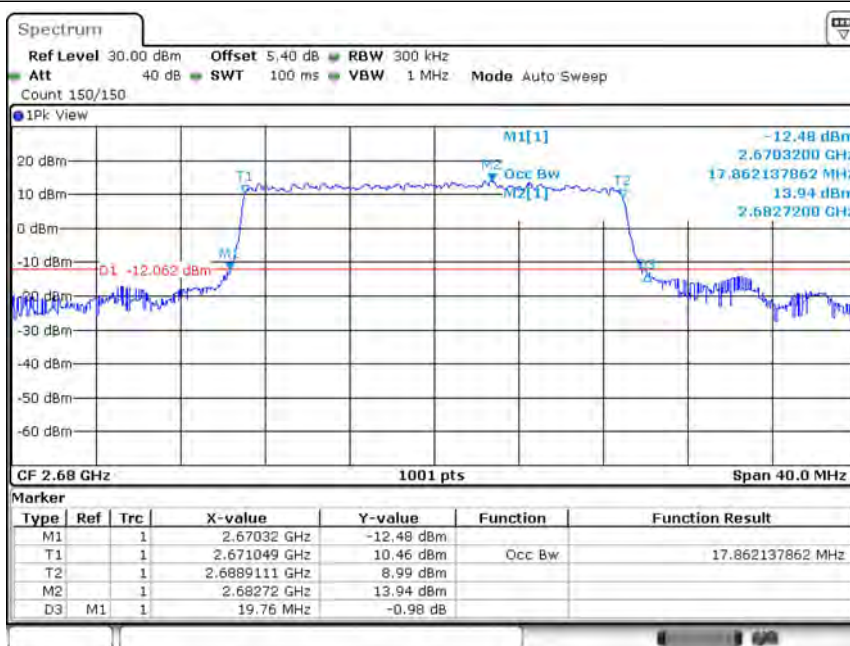


Band41-20MHz-16QAM-40620-100RB#0-17.862



Date: 12 JUL 2020 12:15:45

Band41-20MHz-16QAM-41490-100RB#0-17.862



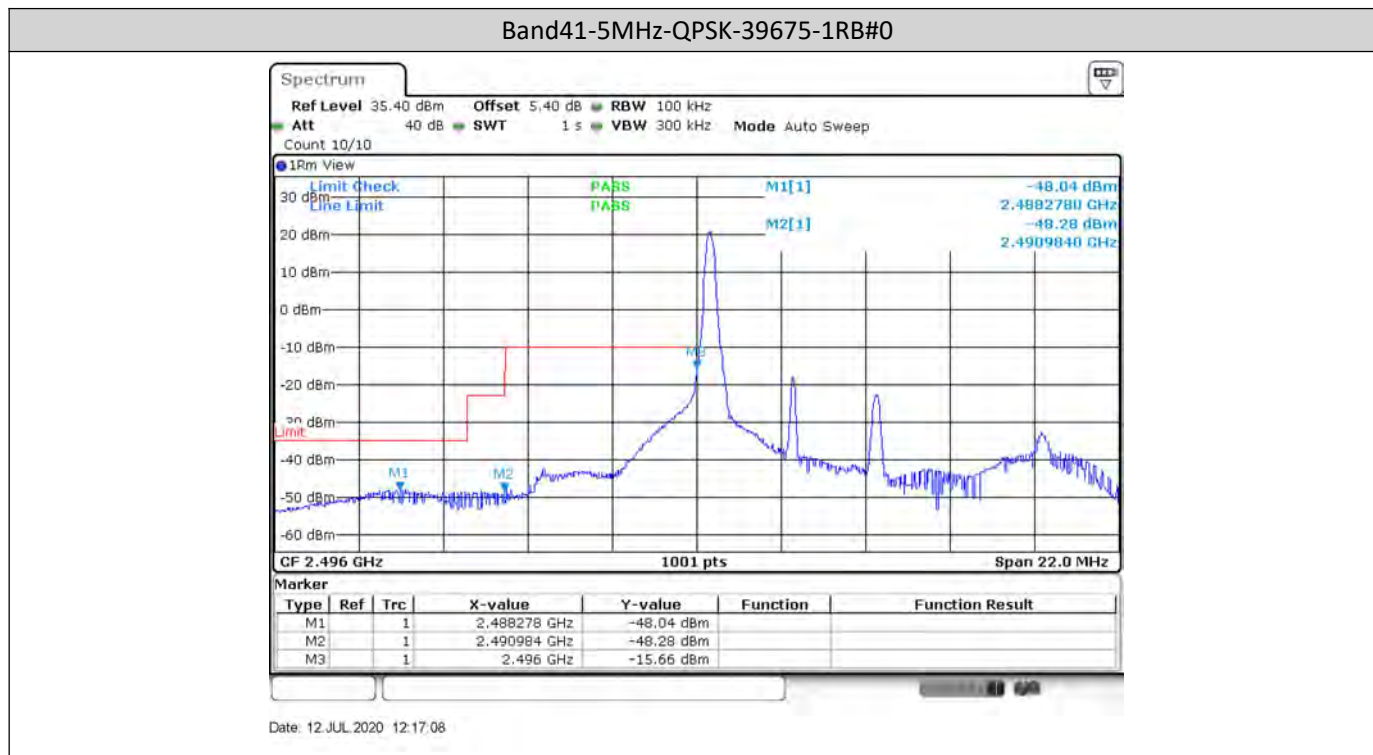
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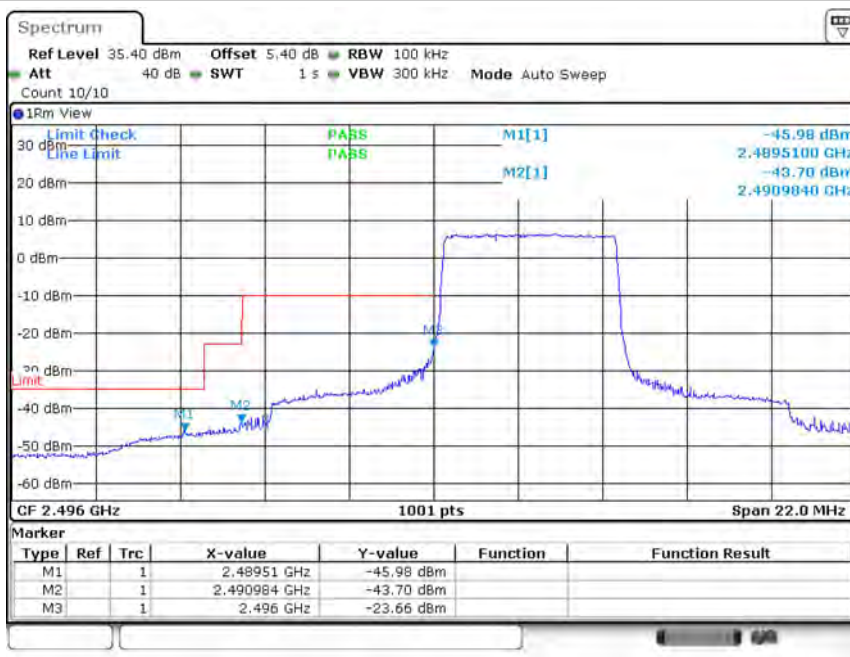
5. Band Edge Compliance

5.1. Test Plots



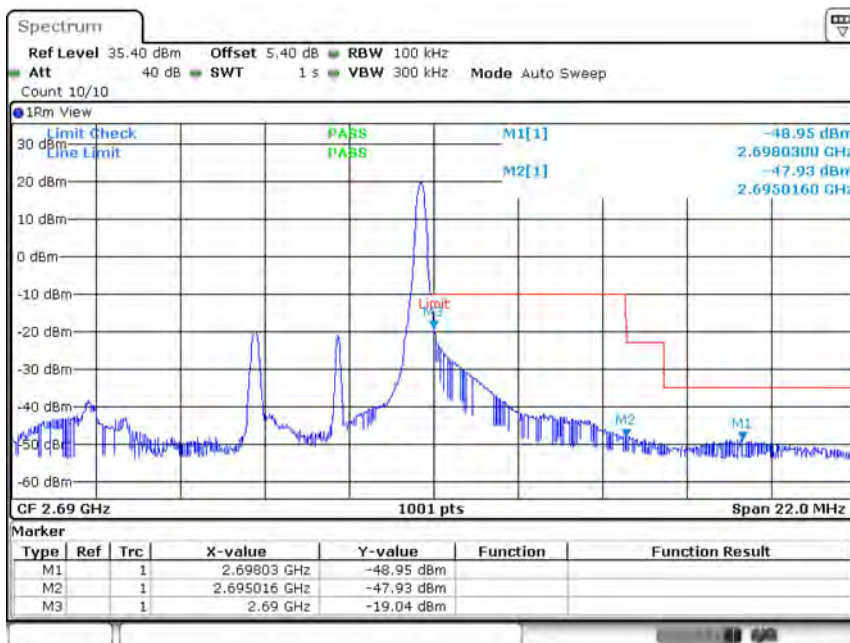


Band41-5MHz-QPSK-39675-25RB#0



Date: 12 JUL 2020 12:18:43

Band41-5MHz-QPSK-41565-1RB#24

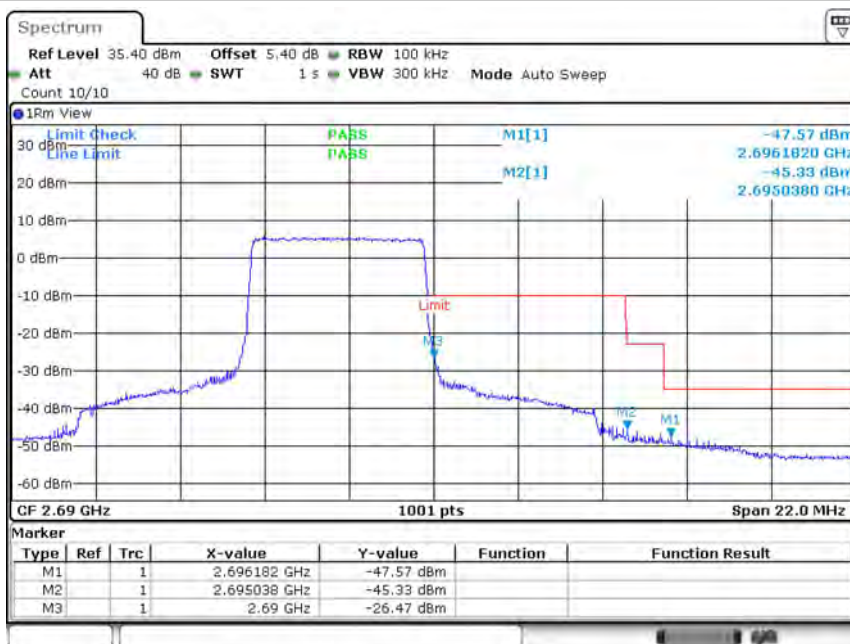


Date: 12 JUL 2020 12:17:55



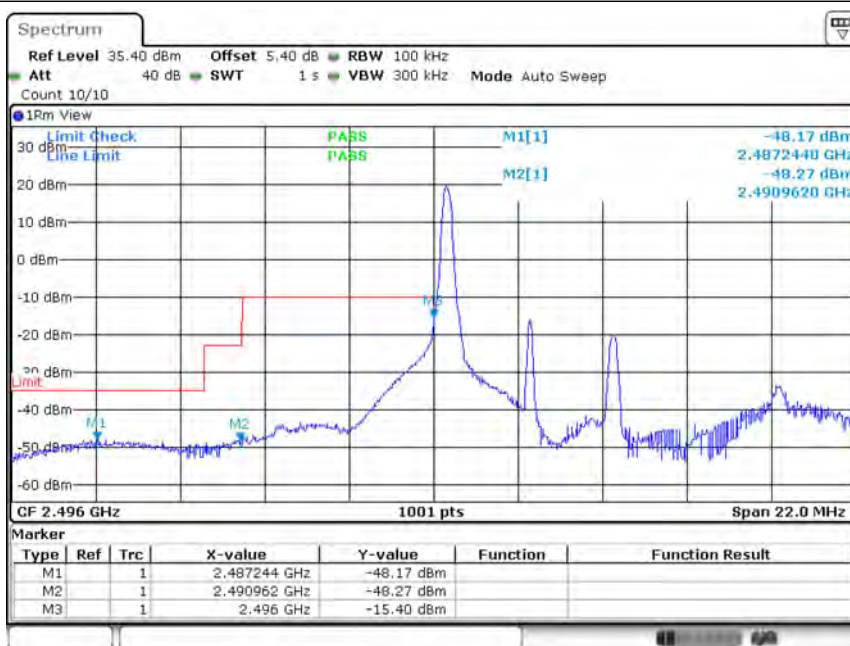


Band41-5MHz-QPSK-41565-25RB#0



Date: 12 JUL 2020 12:19:27

Band41-5MHz-16QAM-39675-1RB#0



Date: 12 JUL 2020 12:17:29



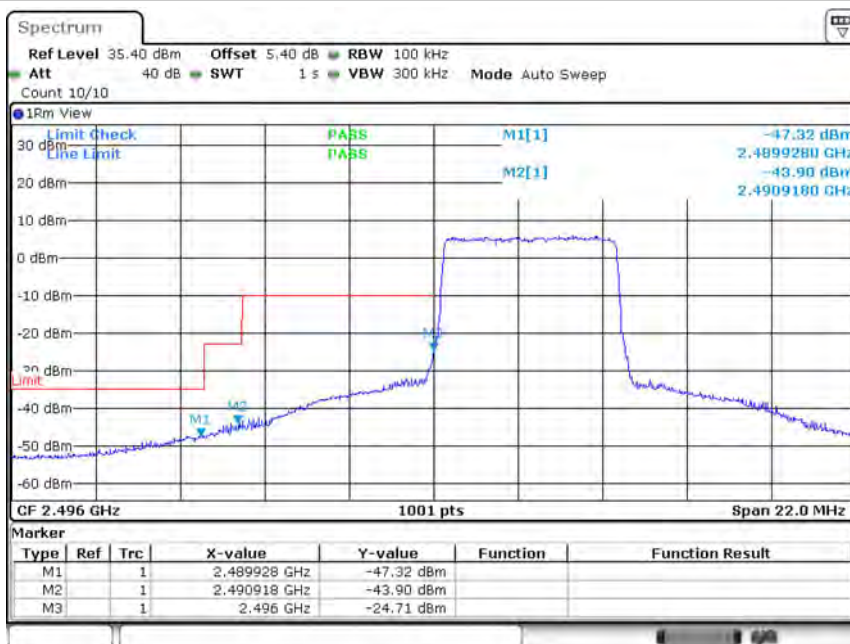
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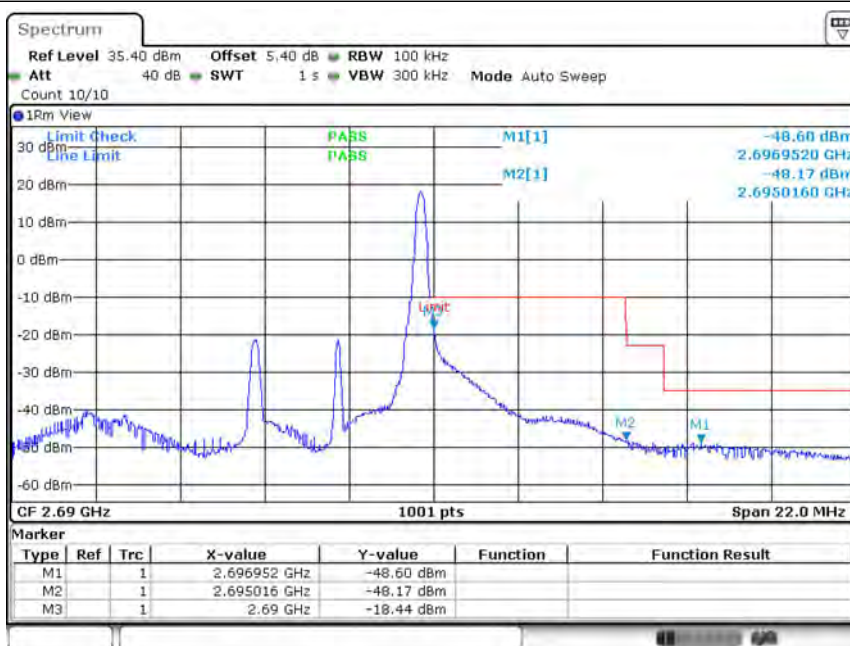


Band41-5MHz-16QAM-39675-25RB#0



Date: 12 JUL 2020 12:19:05

Band41-5MHz-16QAM-41565-1RB#24



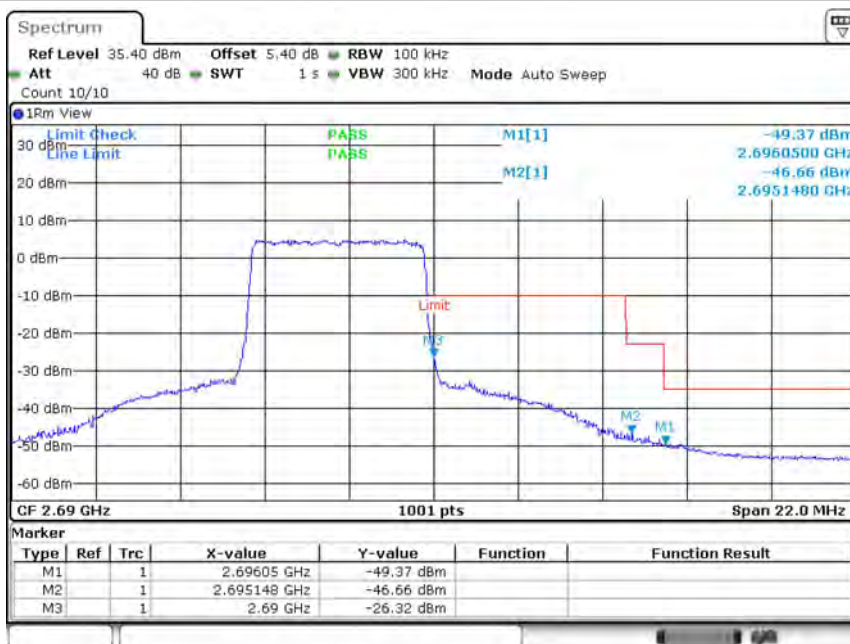
Date: 12 JUL 2020 12:18:17



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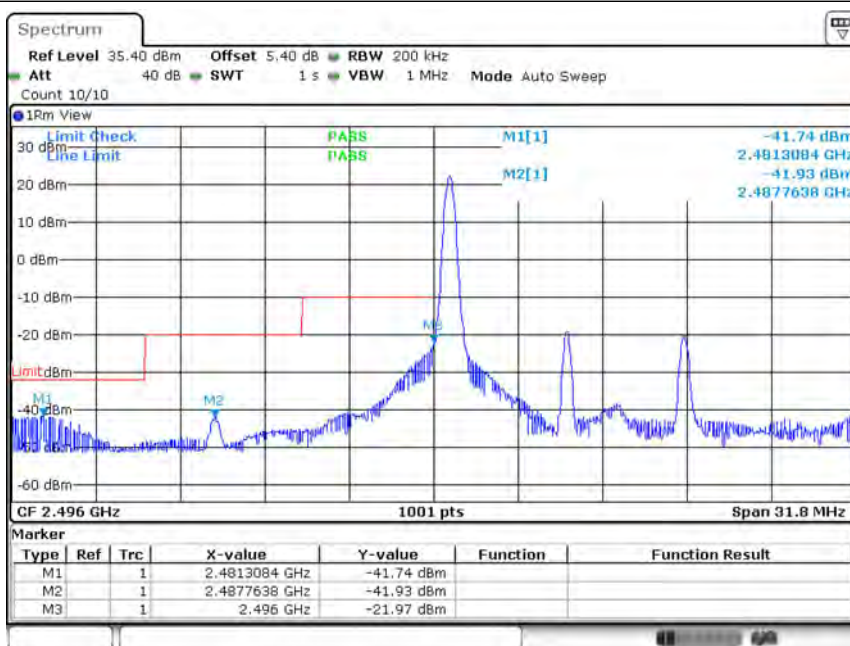
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Band41-5MHz-16QAM-41565-25RB#0



Date: 12 JUL 2020 12:19:48

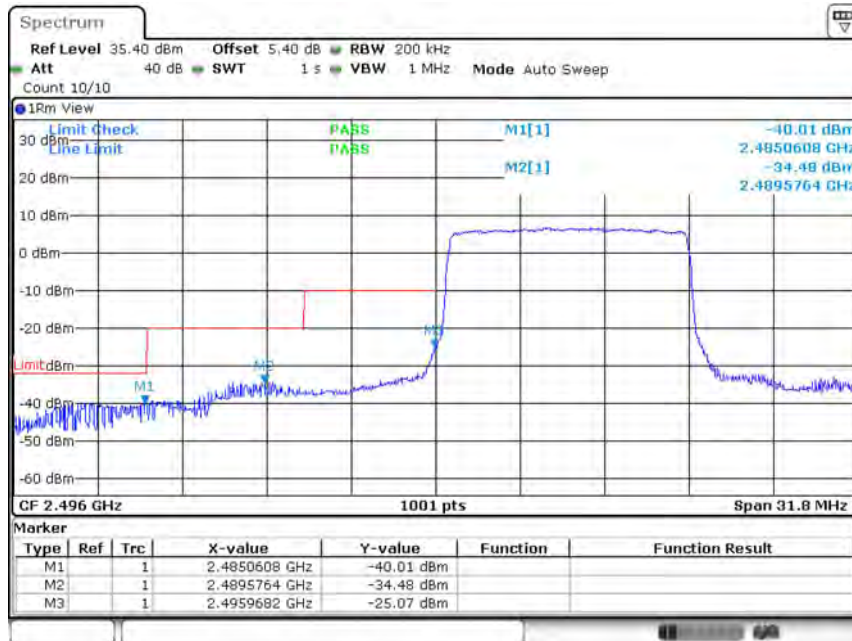
Band41-10MHz-QPSK-39700-1RB#0



Date: 12 JUL 2020 12:20:15

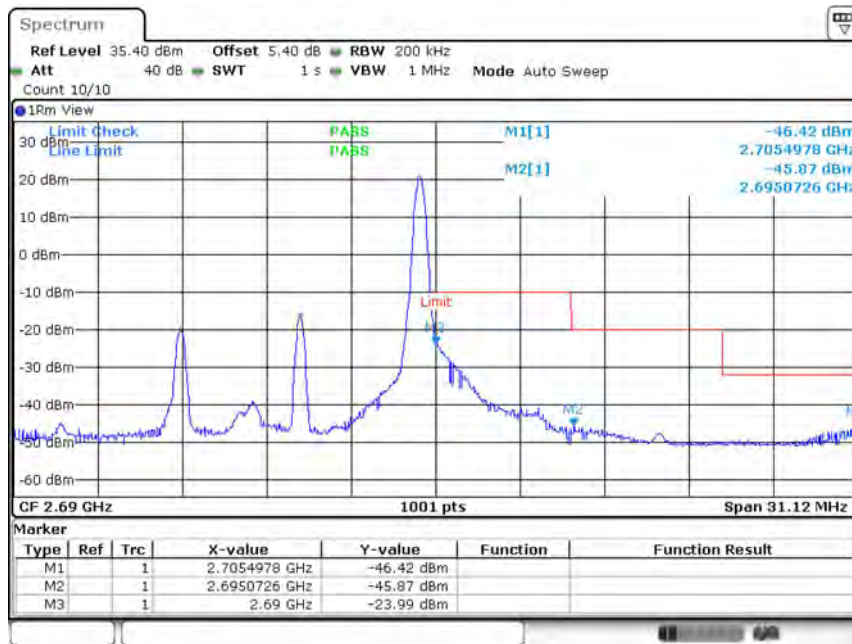


Band41-10MHz-QPSK-39700-50RB#0



Date: 12 JUL 2020 12:21:50

Band41-10MHz-QPSK-41540-1RB#49



Date: 12 JUL 2020 12:21:03



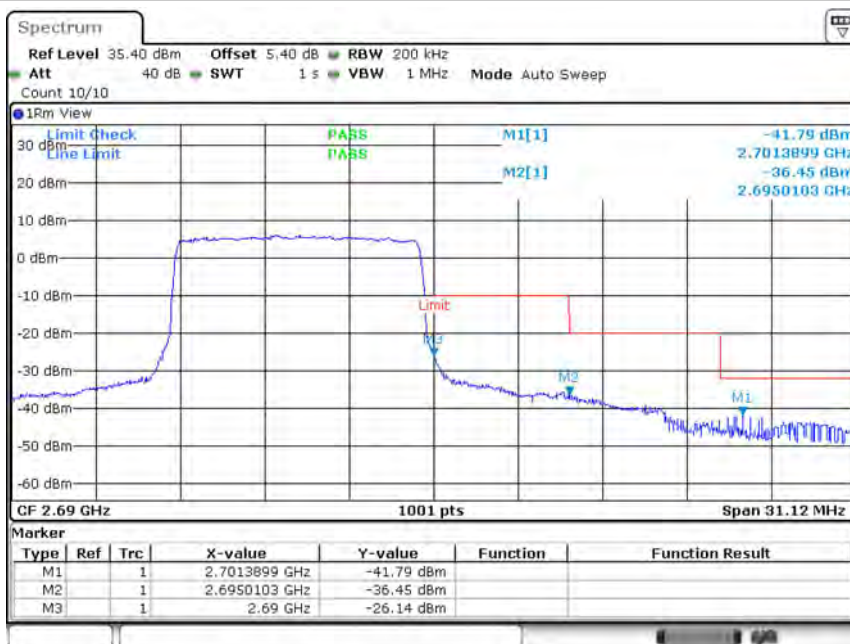
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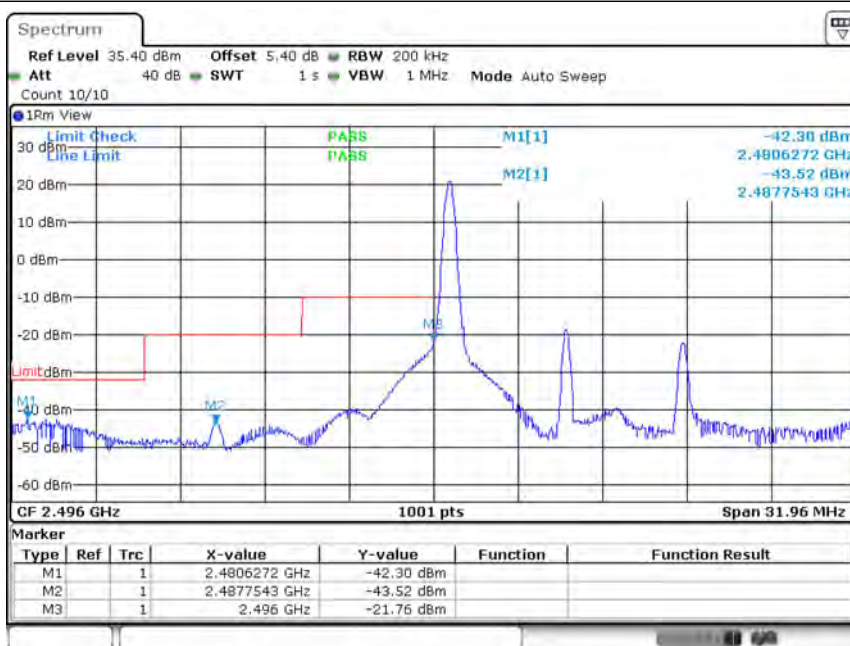


Band41-10MHz-QPSK-41540-50RB#0



Date: 12 JUL 2020 12:22:34

Band41-10MHz-16QAM-39700-1RB#0



Date: 12 JUL 2020 12:20:37



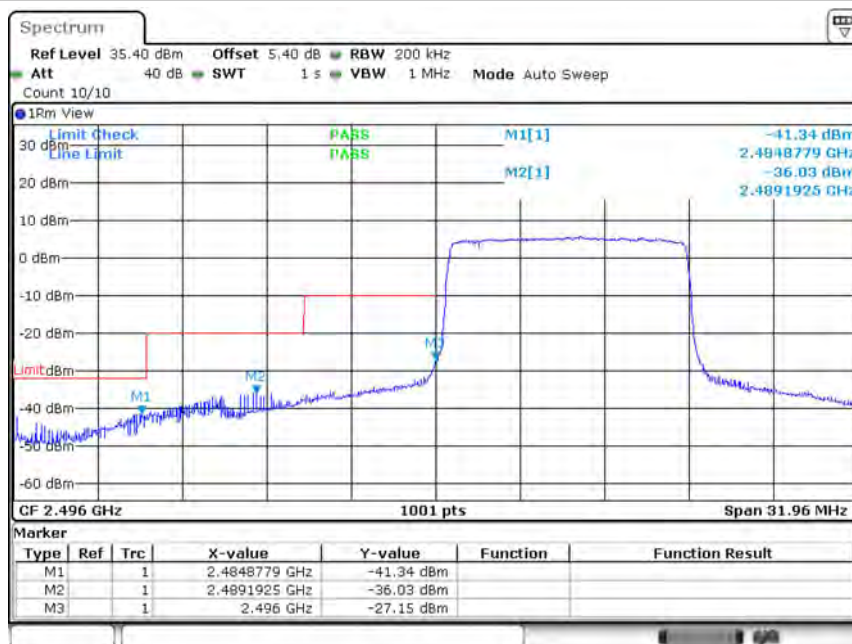
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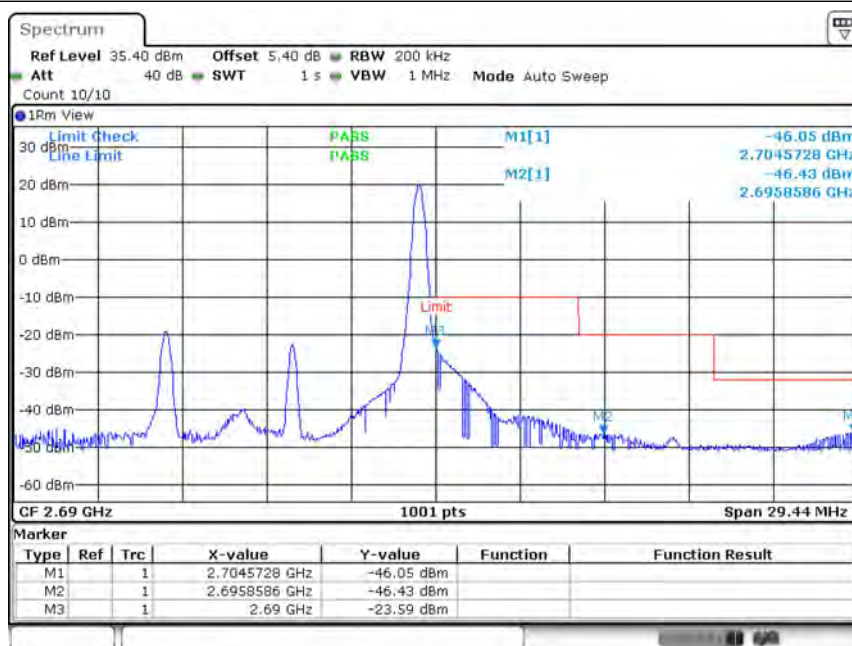


Band41-10MHz-16QAM-39700-50RB#0



Date: 12 JUL 2020 12:22:12

Band41-10MHz-16QAM-41540-1RB#49



Date: 12 JUL 2020 12:21:24

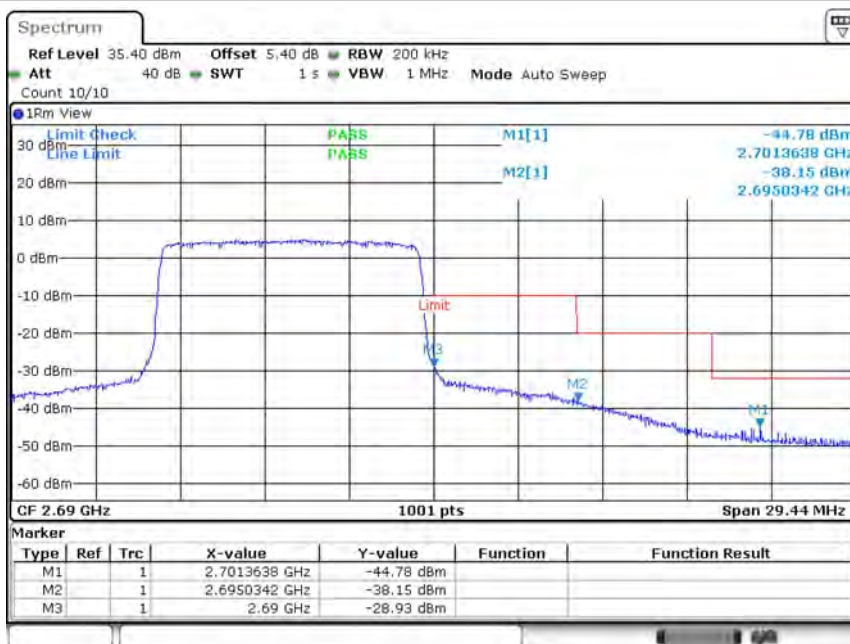


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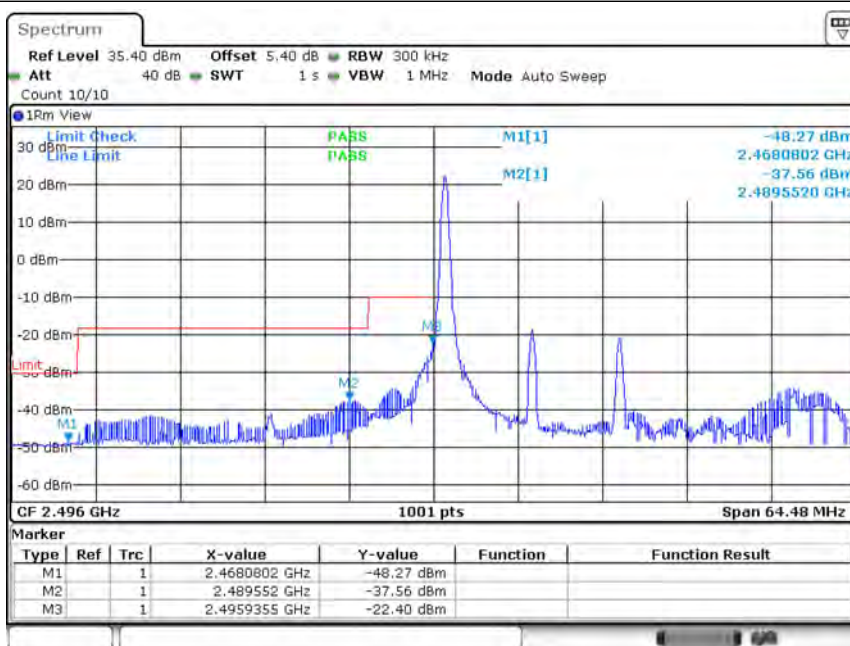


Band41-10MHz-16QAM-41540-50RB#0



Date: 12 JUL 2020 12:22:56

Band41-15MHz-QPSK-39725-1RB#0



Date: 12 JUL 2020 12:23:22



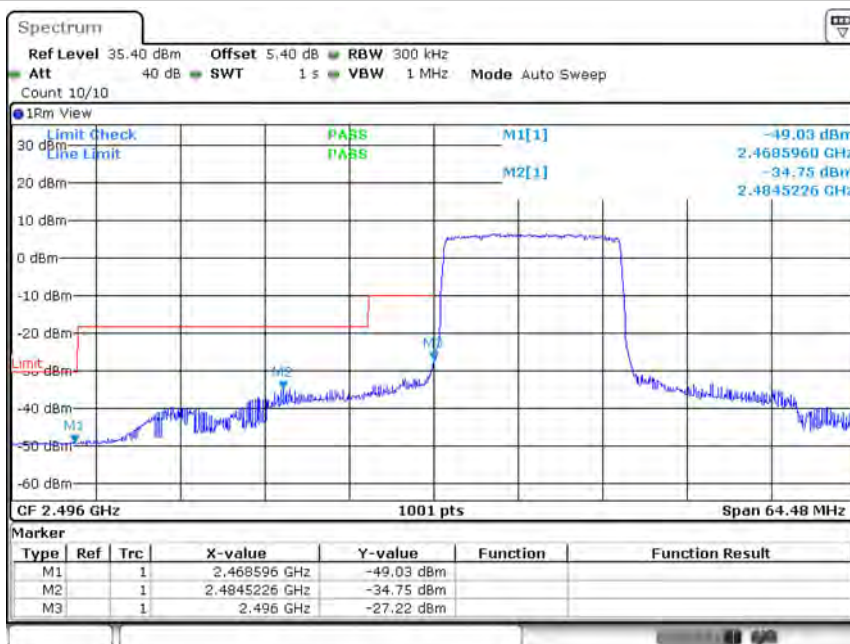
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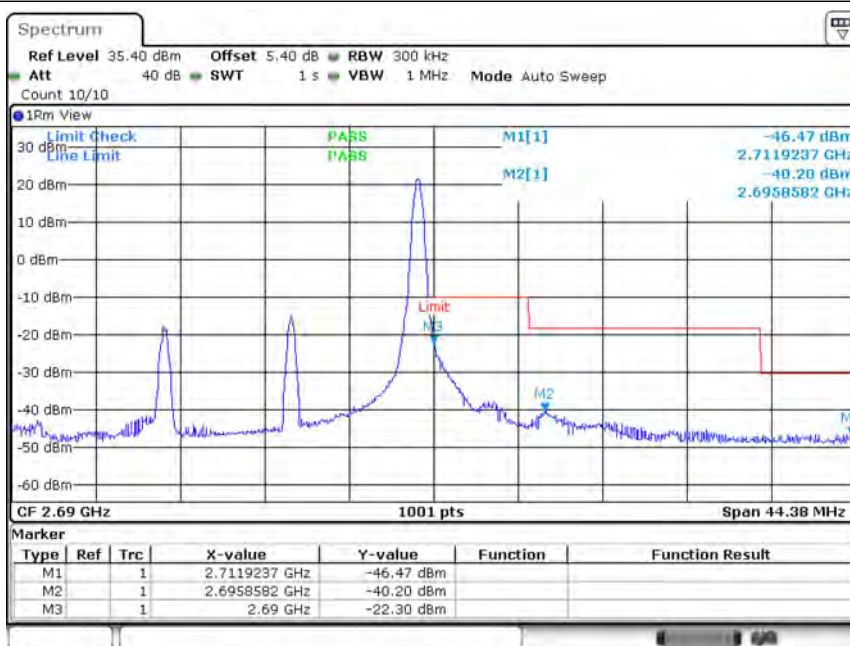


Band41-15MHz-QPSK-39725-75RB#0



Date: 12 JUL 2020 12:24:58

Band41-15MHz-QPSK-41515-1RB#74



Date: 12 JUL 2020 12:24:10

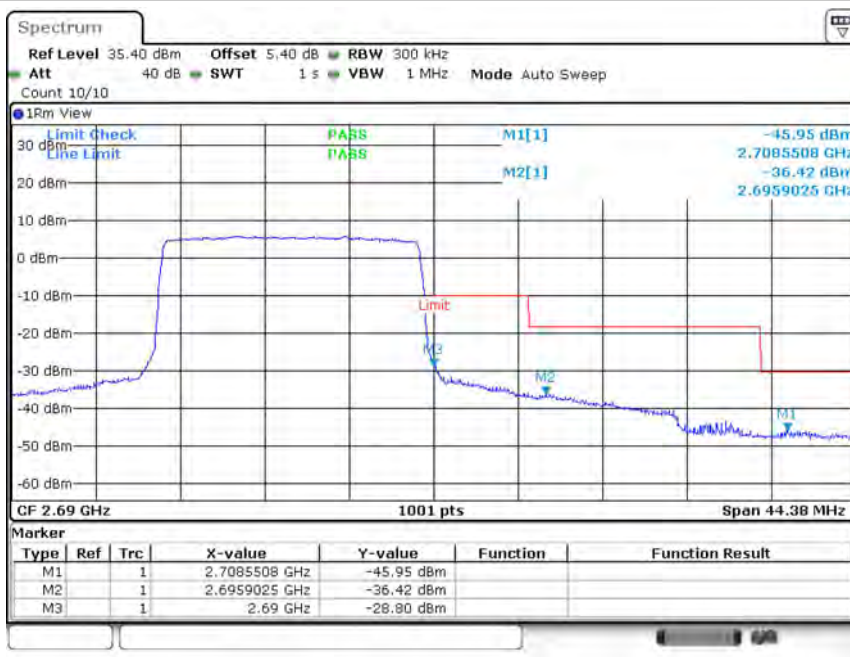


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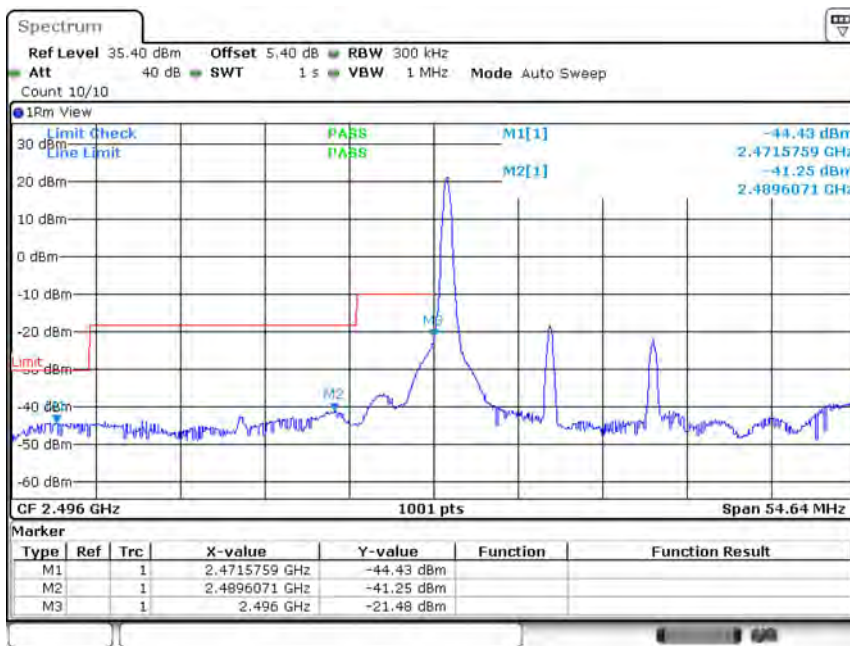
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Band41-15MHz-QPSK-41515-75RB#0



Date: 12 JUL 2020 12:25:41

Band41-15MHz-16QAM-39725-1RB#0

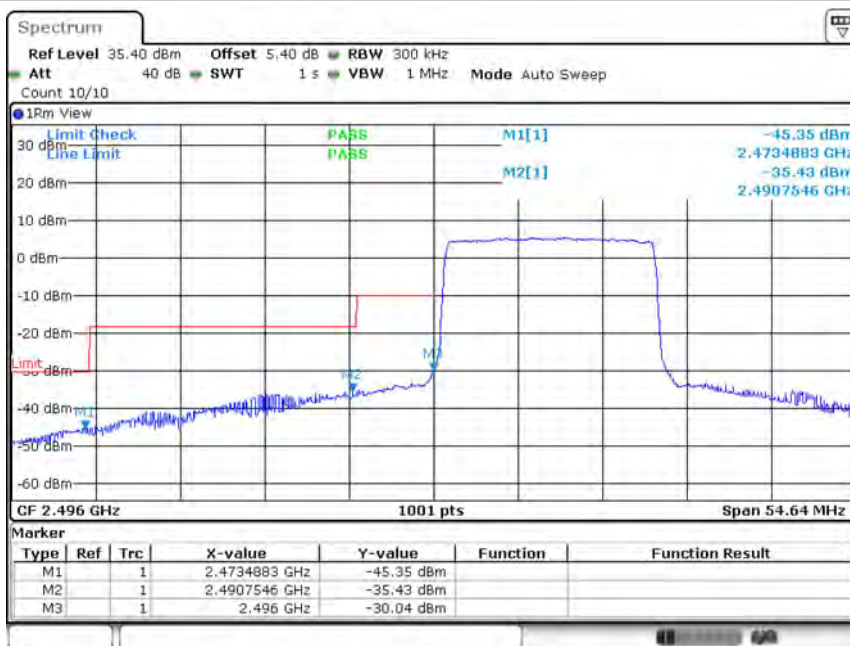


Date: 12 JUL 2020 12:23:44



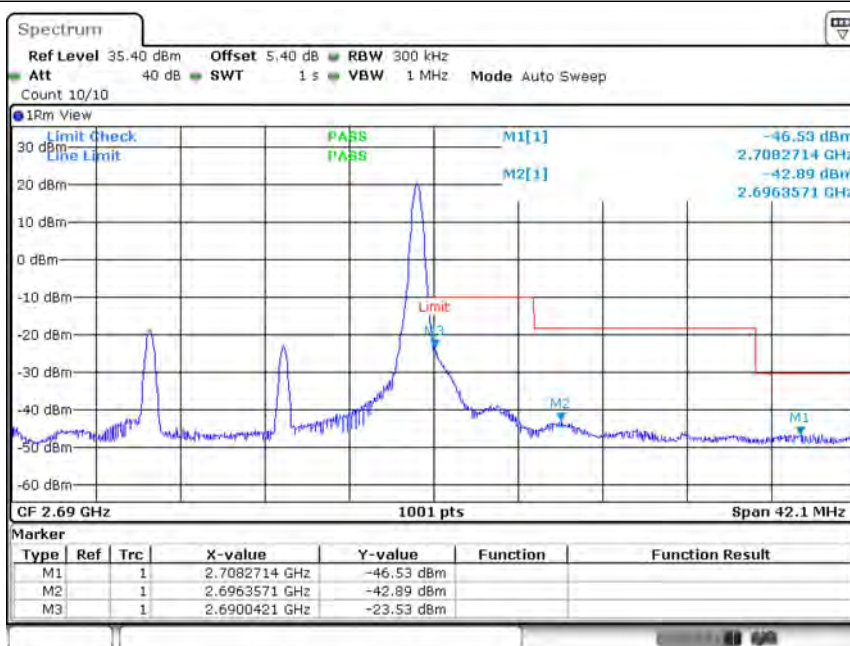


Band41-15MHz-16QAM-39725-75RB#0



Date: 12 JUL 2020 12:25:20

Band41-15MHz-16QAM-41515-1RB#74



Date: 12 JUL 2020 12:24:32



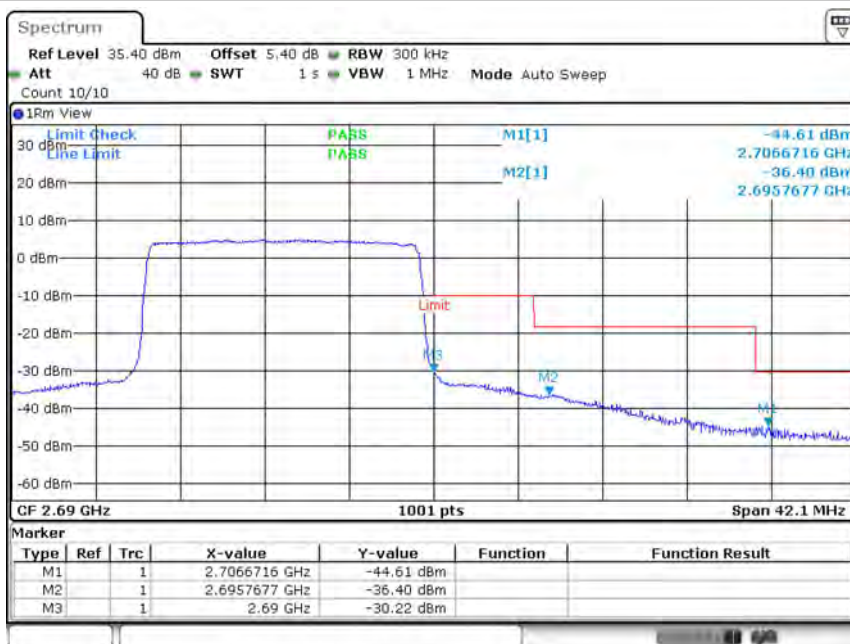
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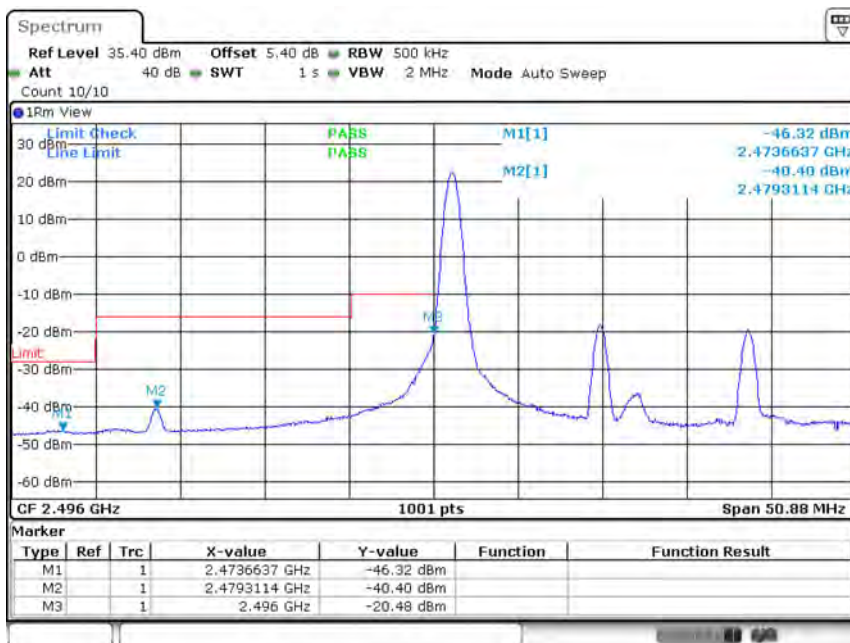


Band41-15MHz-16QAM-41515-75RB#0



Date: 12 JUL 2020 12:26:03

Band41-20MHz-QPSK-39750-1RB#0



Date: 12 JUL 2020 12:26:29

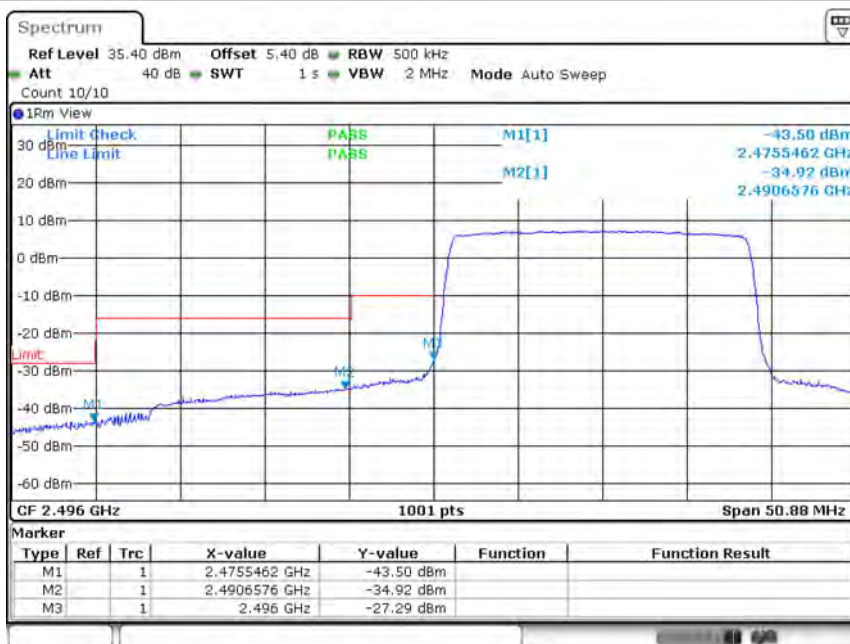


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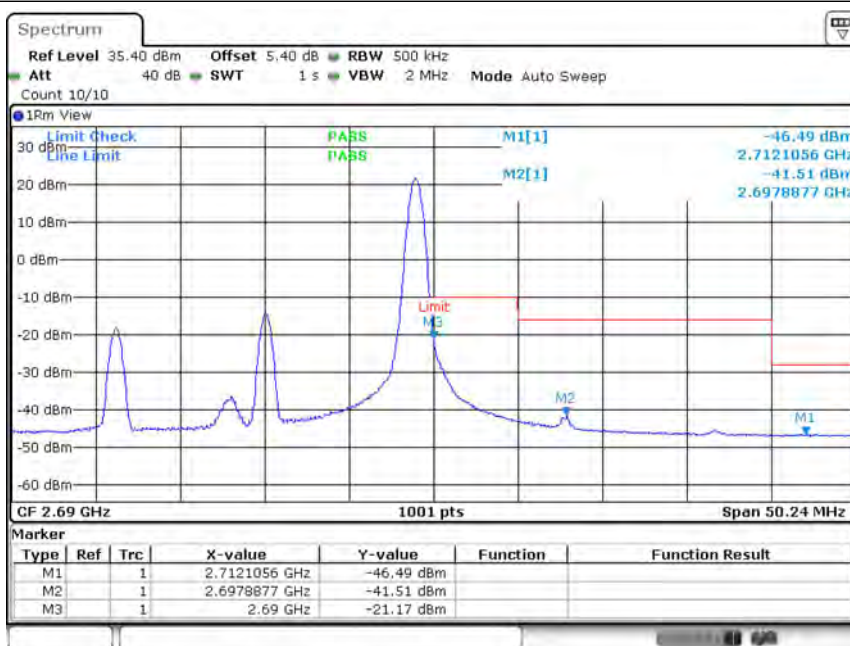


Band41-20MHz-QPSK-39750-100RB#0



Date: 12 JUL 2020 12:28:05

Band41-20MHz-QPSK-41490-1RB#99



Date: 12 JUL 2020 12:27:17

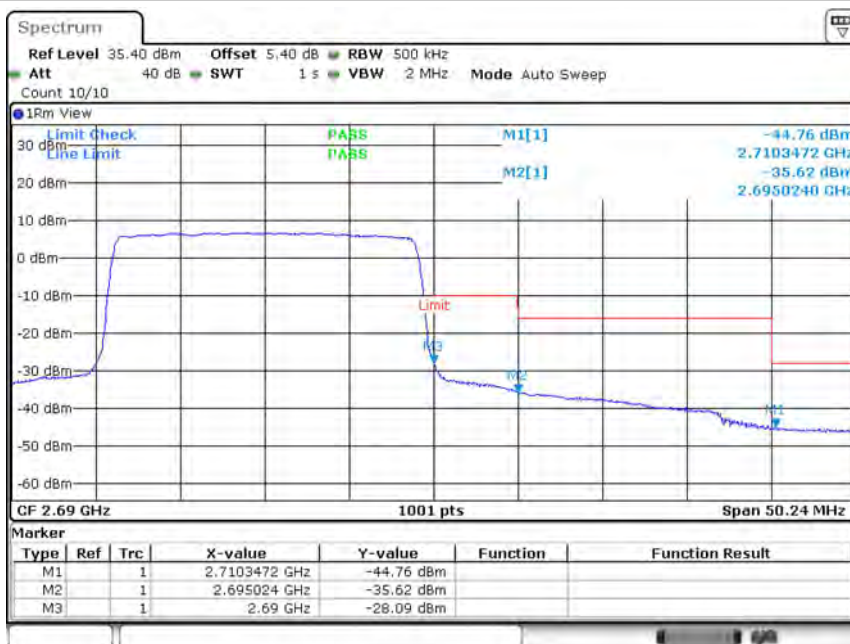


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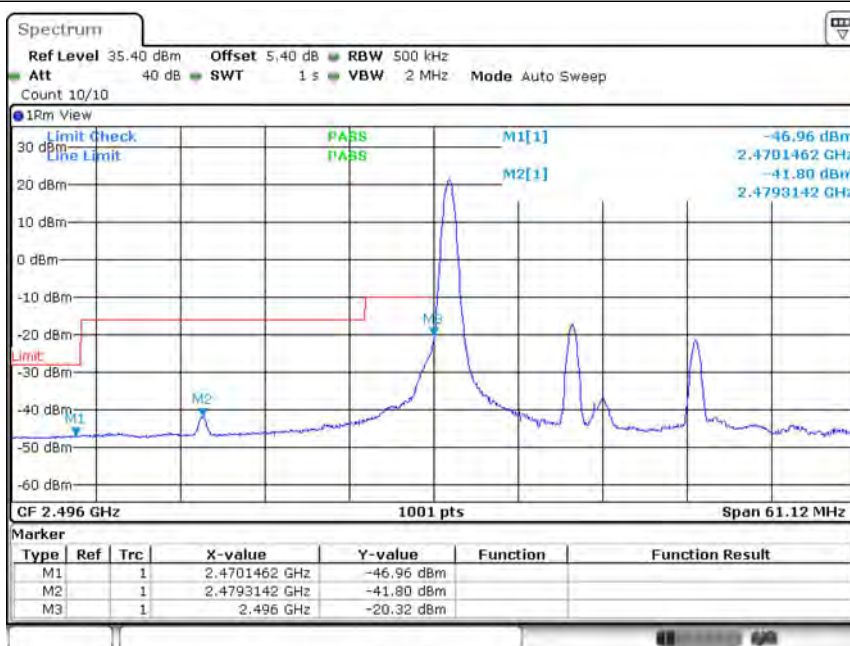
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Band41-20MHz-QPSK-41490-100RB#0



Date: 12 JUL 2020 12:28:49

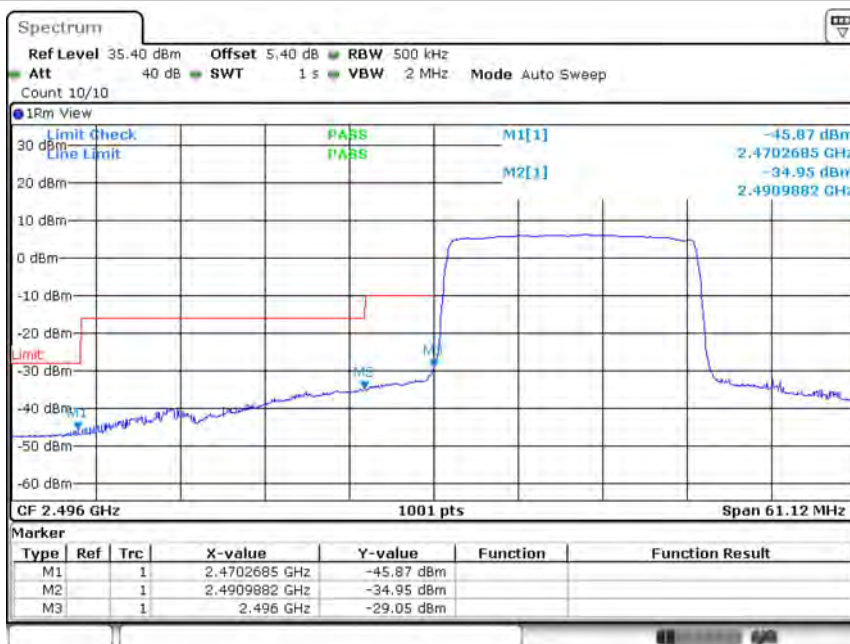
Band41-20MHz-16QAM-39750-1RB#0



Date: 12 JUL 2020 12:26:51

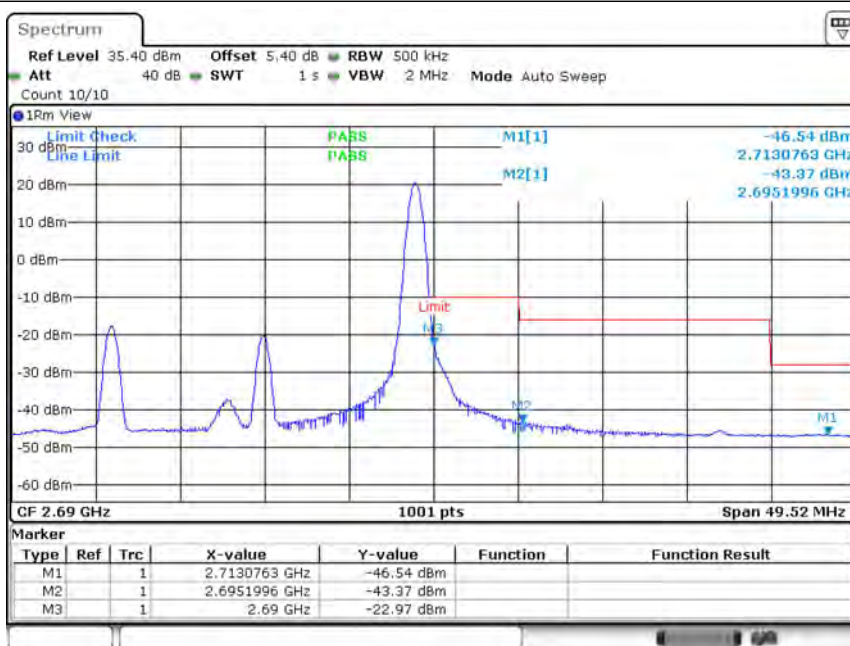


Band41-20MHz-16QAM-39750-100RB#0



Date: 12 JUL 2020 12:28:27

Band41-20MHz-16QAM-41490-1RB#99

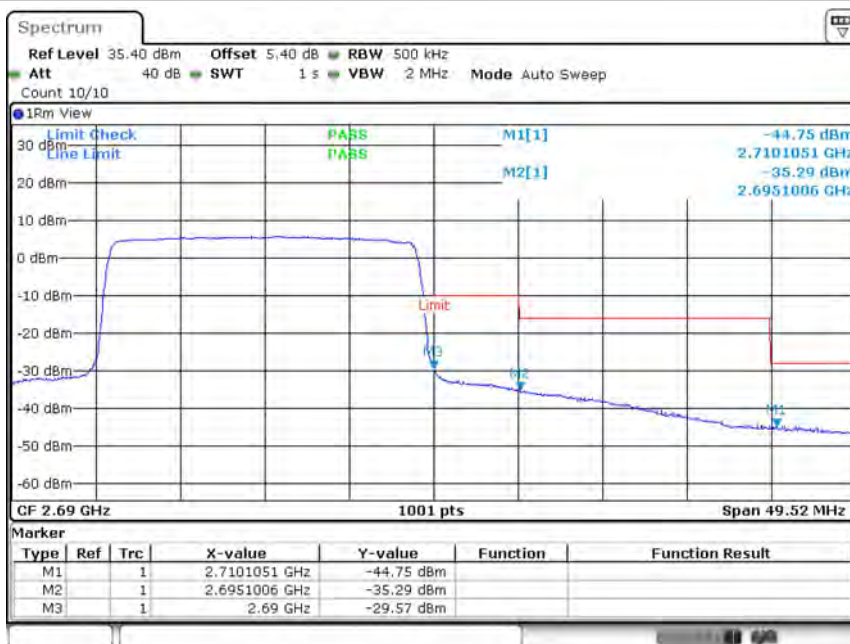


Date: 12 JUL 2020 12:27:39





Band41-20MHz-16QAM-41490-100RB#0



Date: 12 JUL 2020 12:29:10



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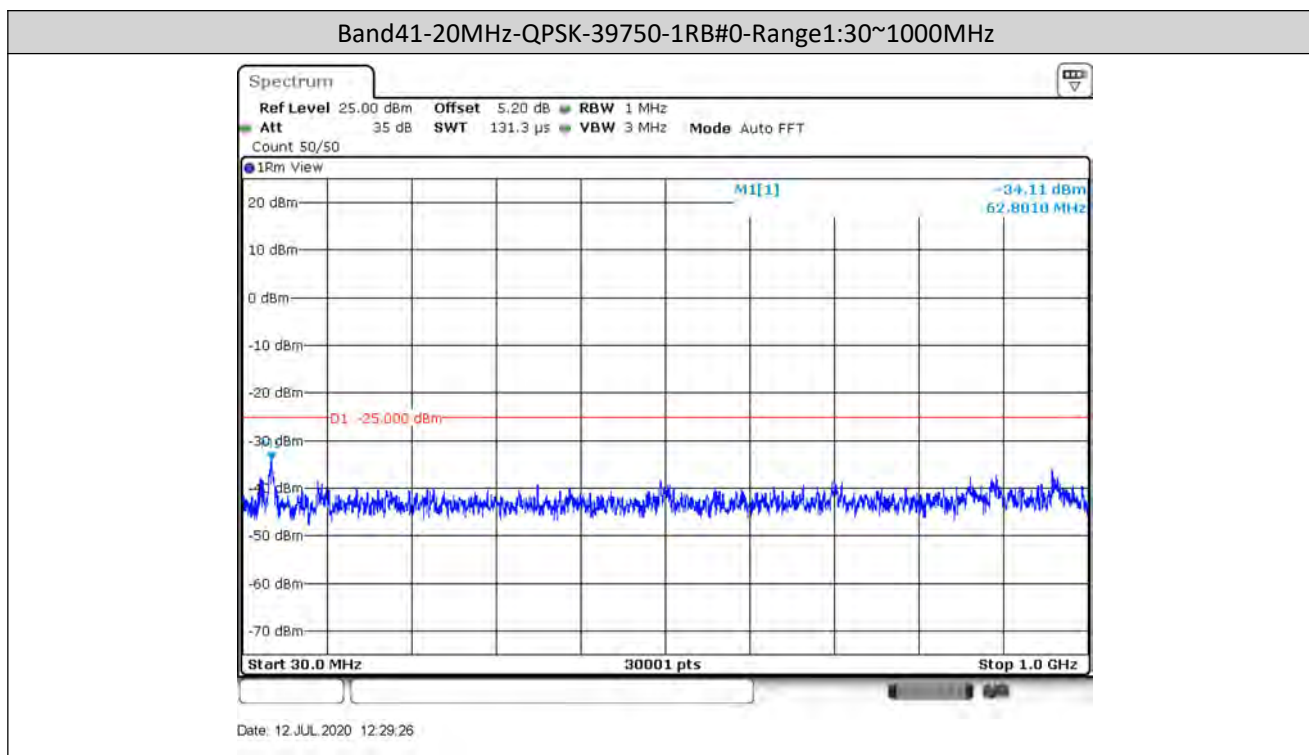
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6. Spurious Emission at Antenna Terminal

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

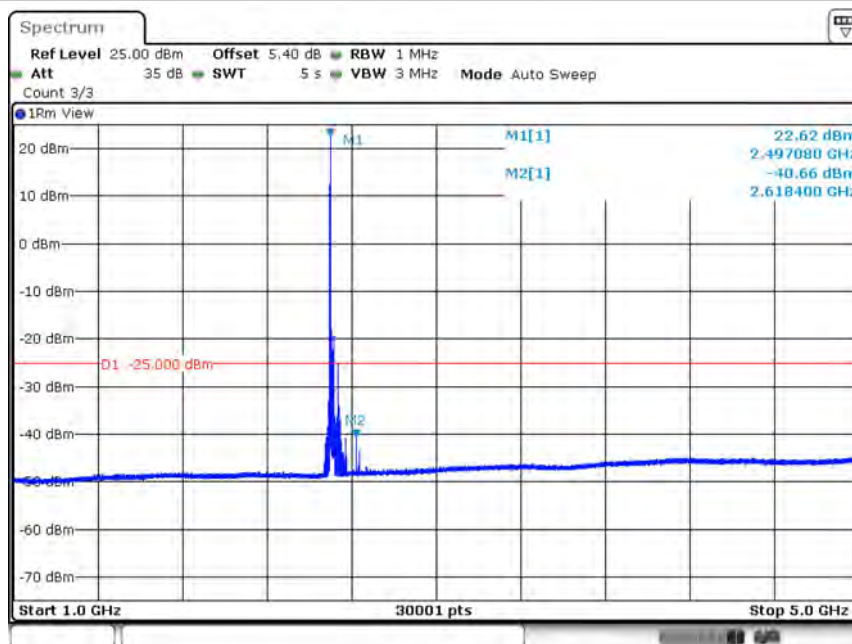
Remark2: only the worst case data displayed in this report.

6.1. Test Plots



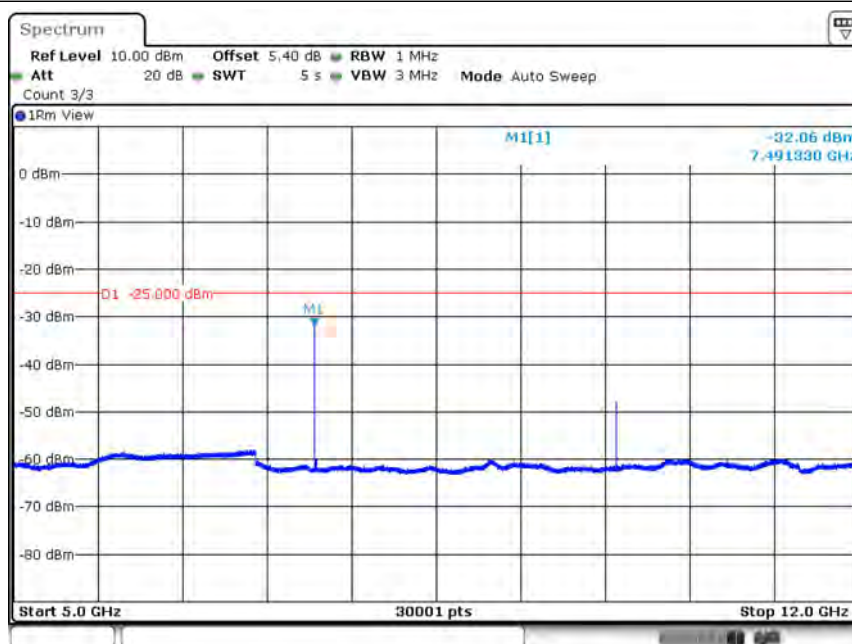


Band41-20MHz-QPSK-39750-1RB#0-Range2:1000~5000MHz



Date: 12 JUL 2020 12:29:49

Band41-20MHz-QPSK-39750-1RB#0-Range3:5000~12000MHz



Date: 12 JUL 2020 12:30:11

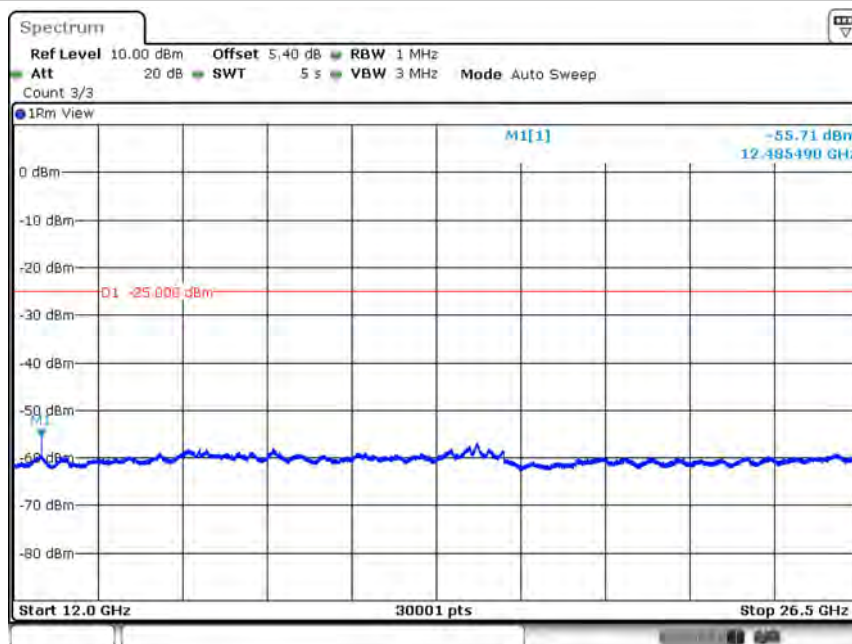


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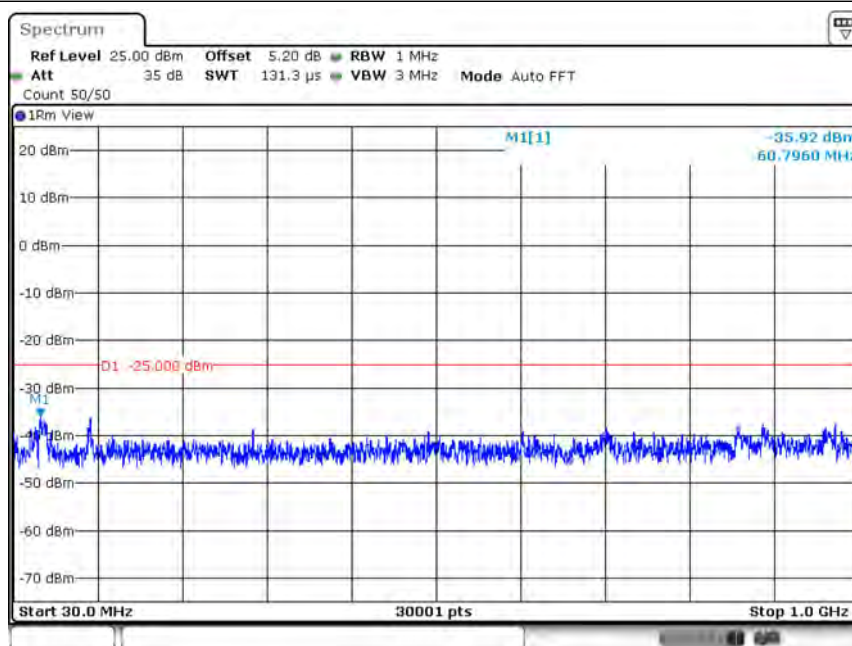


Band41-20MHz-QPSK-39750-1RB#0-Range4:12000~26500MHz



Date: 12 JUL 2020 12:30:32

Band41-20MHz-QPSK-40620-1RB#0-Range1:30~1000MHz



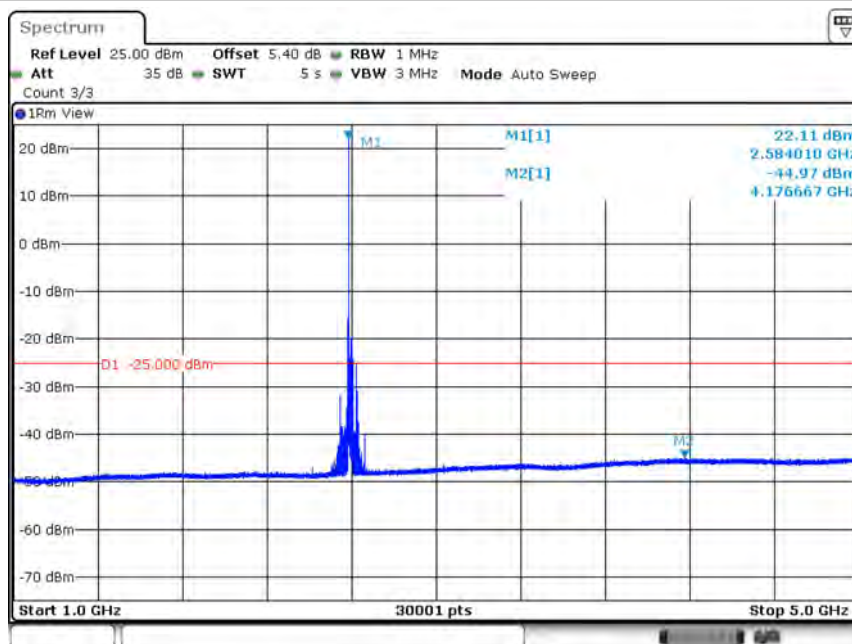
Date: 12 JUL 2020 12:32:01



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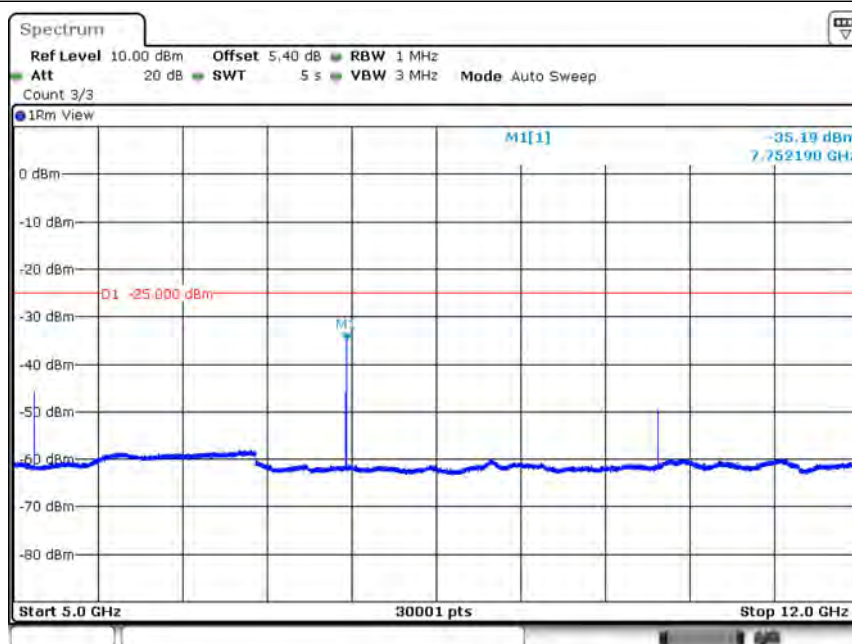
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Band41-20MHz-QPSK-40620-1RB#0-Range2:1000~5000MHz



Date: 12 JUL 2020 12:32:23

Band41-20MHz-QPSK-40620-1RB#0-Range3:5000~12000MHz



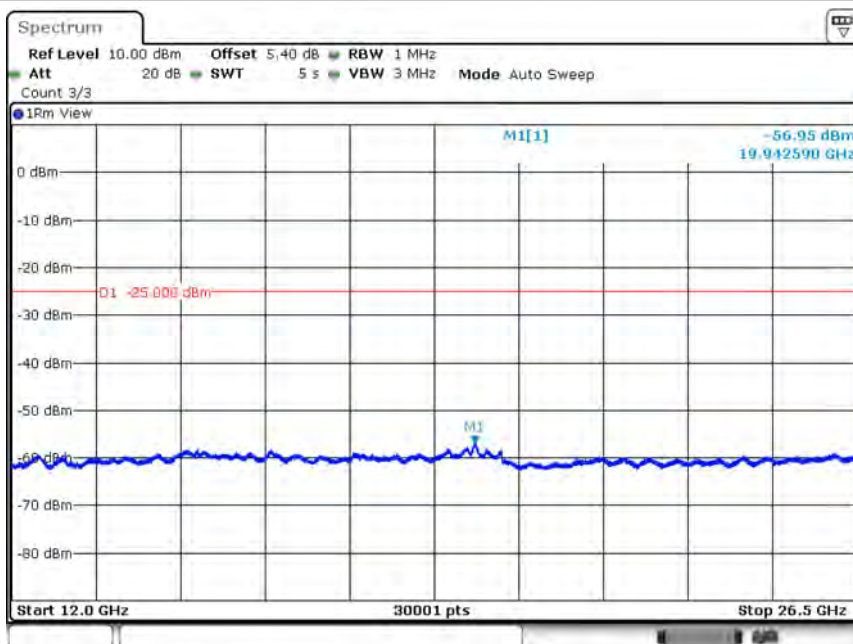
Date: 12 JUL 2020 12:32:45



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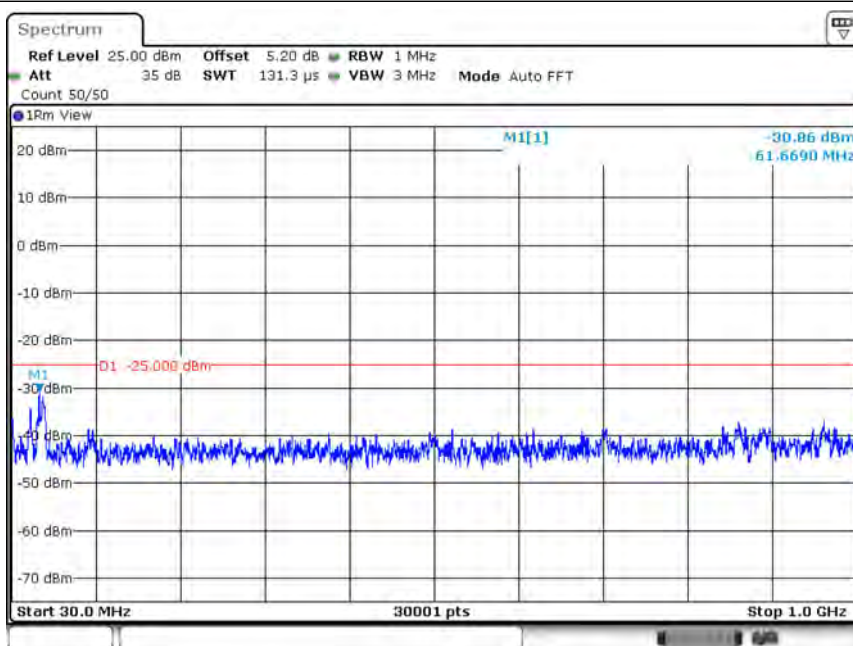
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Band41-20MHz-QPSK-40620-1RB#0-Range4:12000~26500MHz



Date: 12 JUL 2020 12:33:07

Band41-20MHz-QPSK-41490-1RB#0-Range1:30~1000MHz

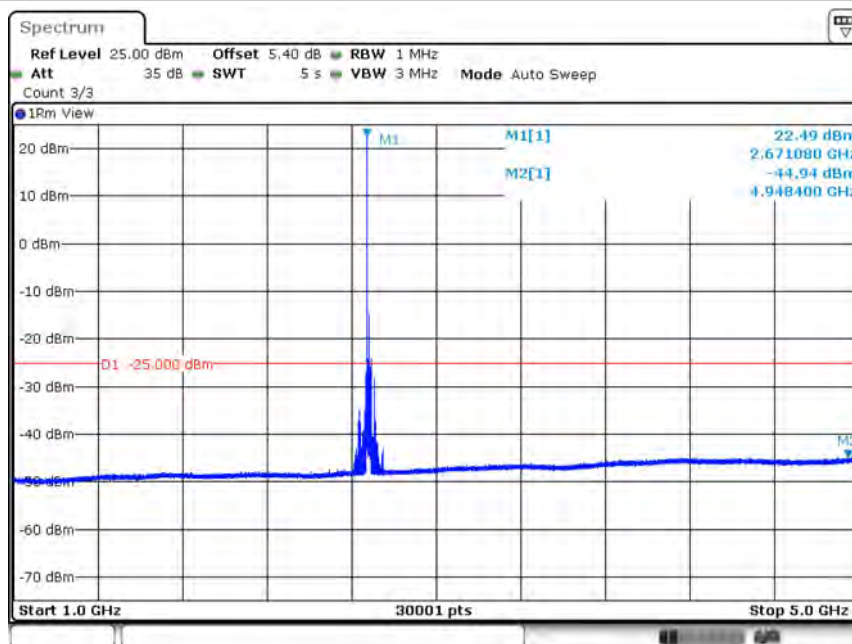


Date: 12 JUL 2020 12:34:35





Band41-20MHz-QPSK-41490-1RB#0-Range2:1000~5000MHz



Date: 12 JUL 2020 12:34:58

Band41-20MHz-QPSK-41490-1RB#0-Range3:5000~12000MHz



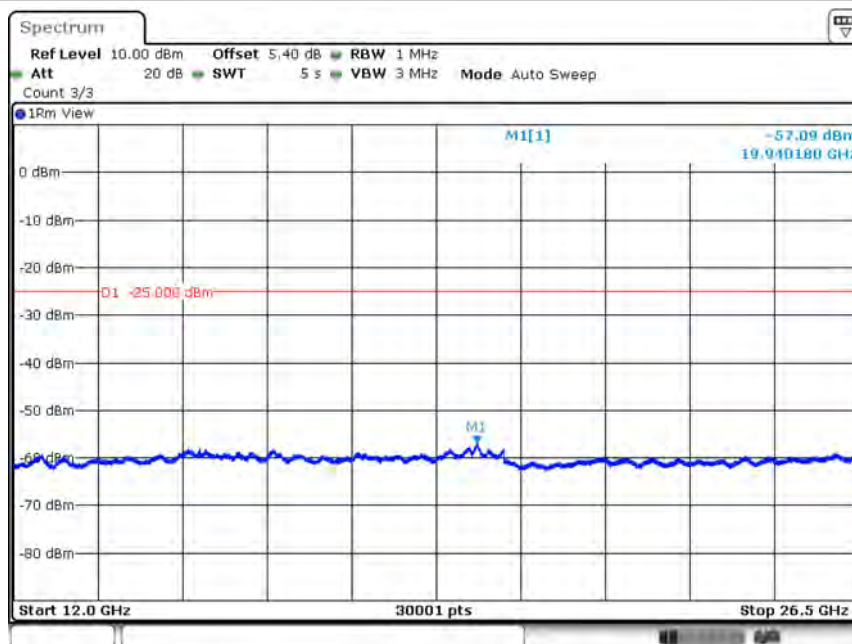
Date: 12 JUL 2020 12:35:20



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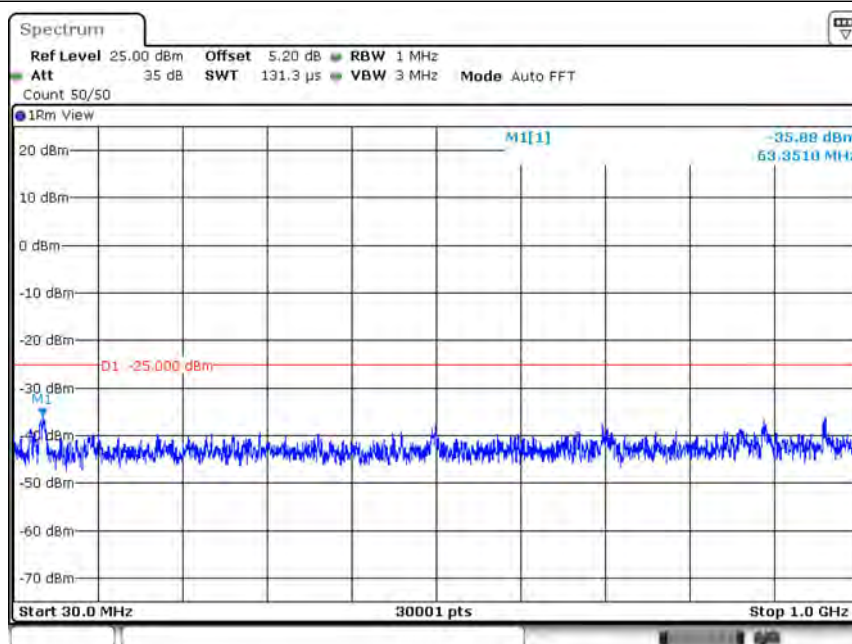
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Band41-20MHz-QPSK-41490-1RB#0-Range4:12000~26500MHz



Date: 12 JUL 2020 12:35:42

Band41-20MHz-16QAM-39750-1RB#0-Range1:30~1000MHz



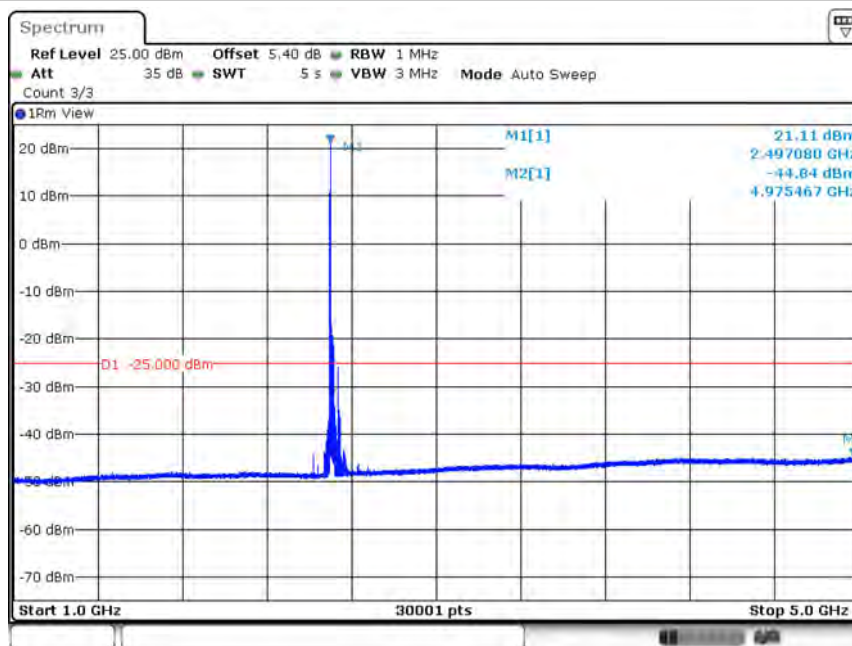
Date: 12 JUL 2020 12:30:43



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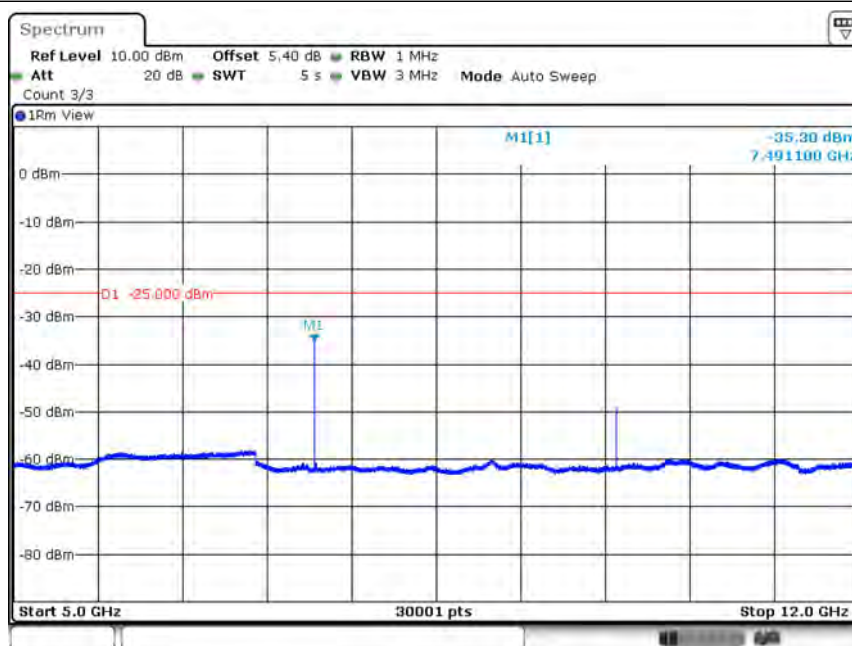
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Band41-20MHz-16QAM-39750-1RB#0-Range2:1000~5000MHz



Date: 12 JUL 2020 12:31:06

Band41-20MHz-16QAM-39750-1RB#0-Range3:5000~12000MHz

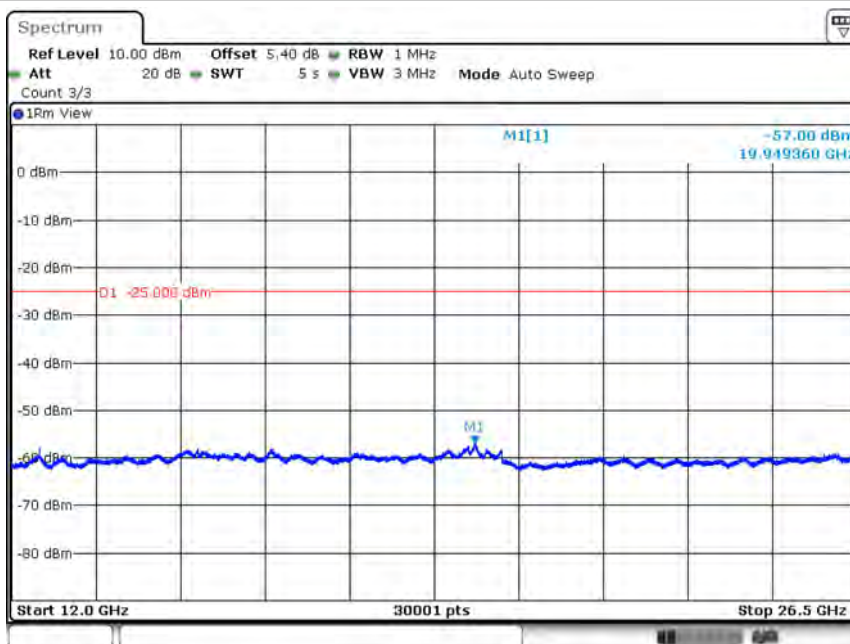


Date: 12 JUL 2020 12:31:28



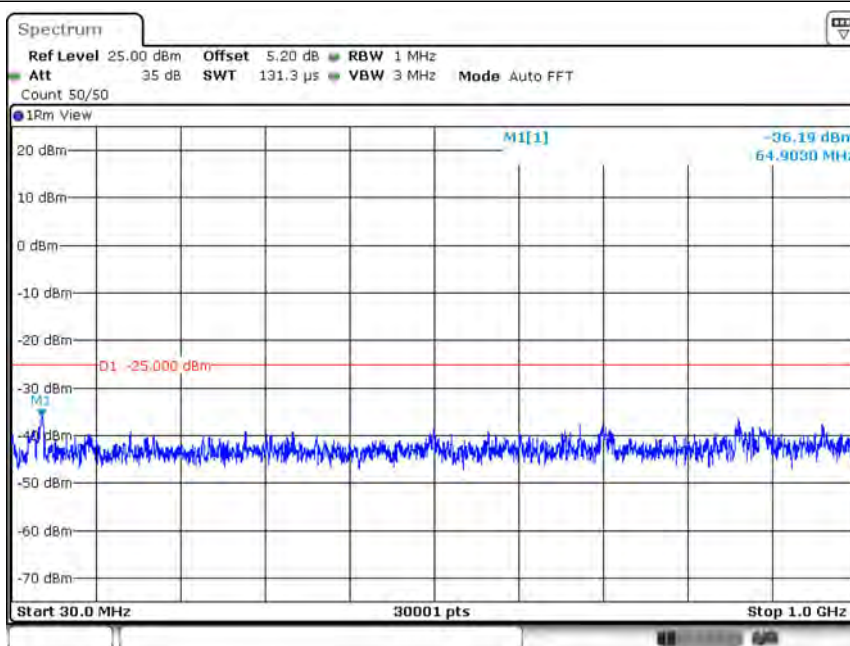


Band41-20MHz-16QAM-39750-1RB#0-Range4:12000~26500MHz



Date: 12 JUL 2020 12:31:50

Band41-20MHz-16QAM-40620-1RB#0-Range1:30~1000MHz



Date: 12 JUL 2020 12:33:18



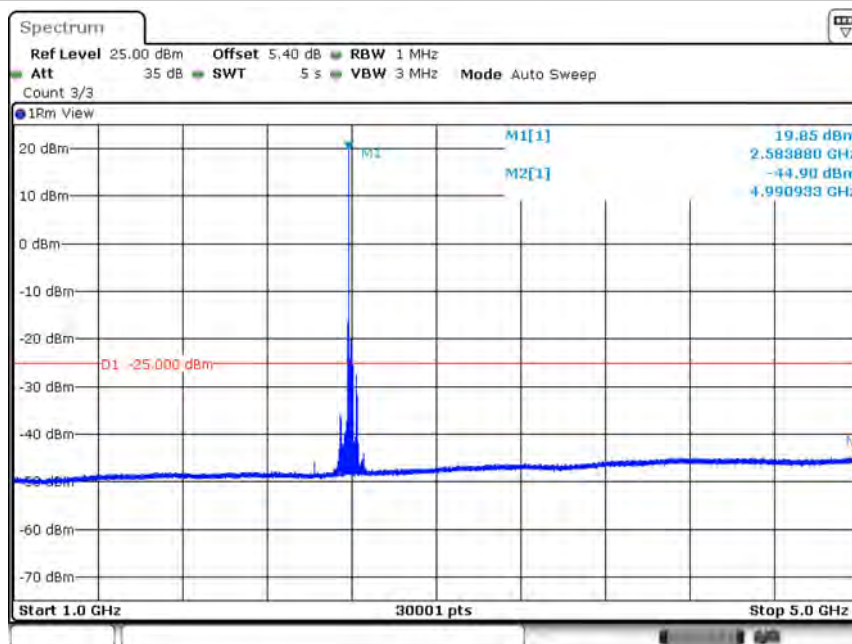
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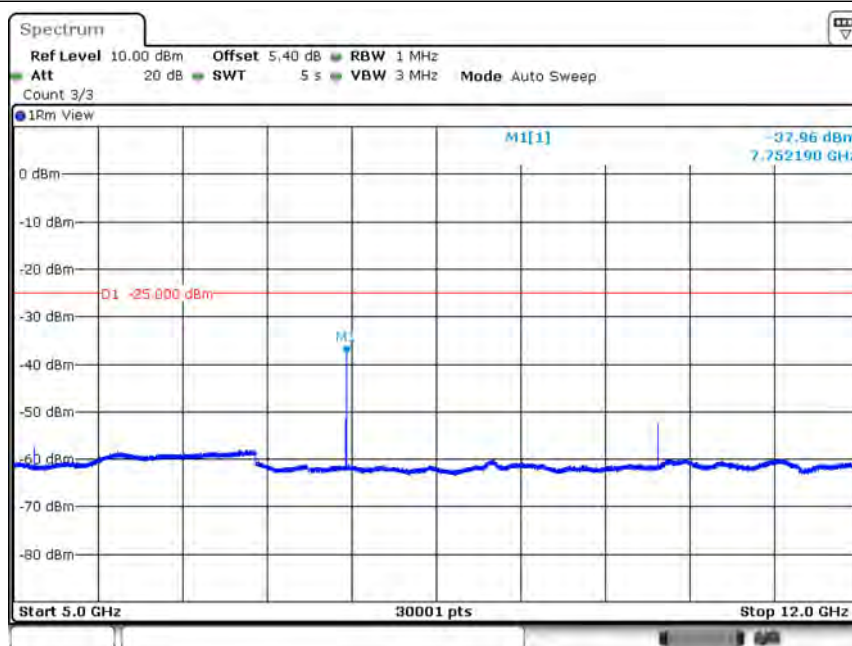


Band41-20MHz-16QAM-40620-1RB#0-Range2:1000~5000MHz



Date: 12 JUL 2020 12:33:41

Band41-20MHz-16QAM-40620-1RB#0-Range3:5000~12000MHz



Date: 12 JUL 2020 12:34:02



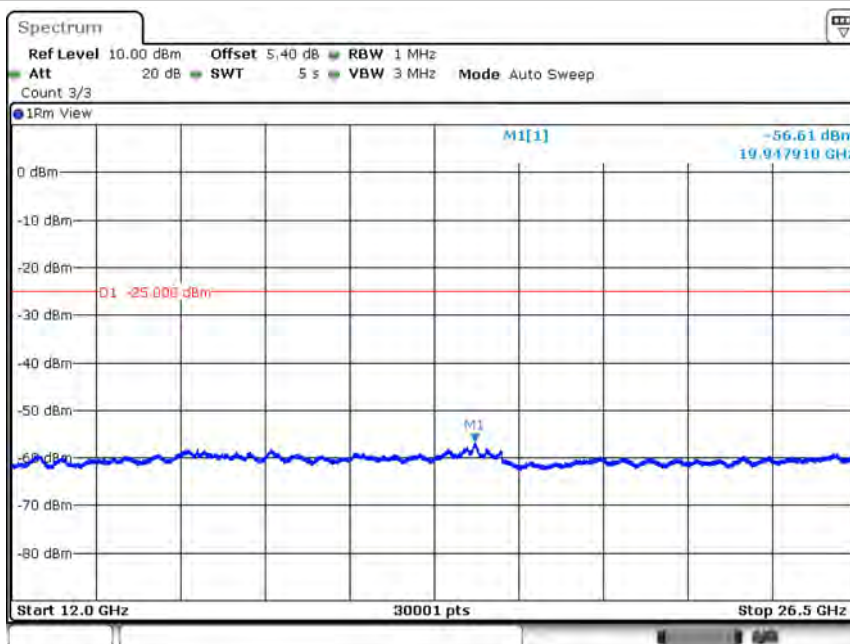
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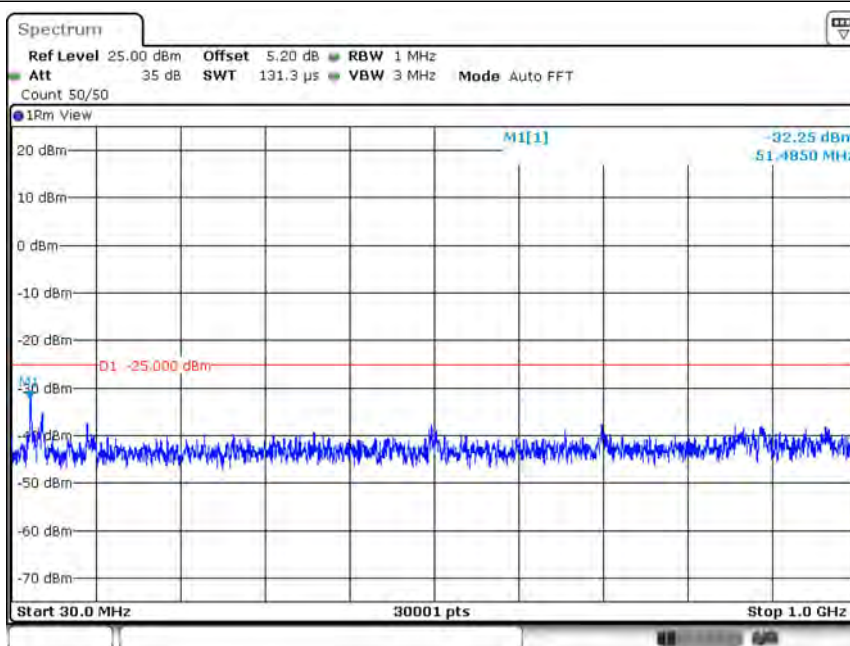


Band41-20MHz-16QAM-40620-1RB#0-Range4:12000~26500MHz



Date: 12 JUL 2020 12:34:24

Band41-20MHz-16QAM-41490-1RB#0-Range1:30~1000MHz



Date: 12 JUL 2020 12:35:52

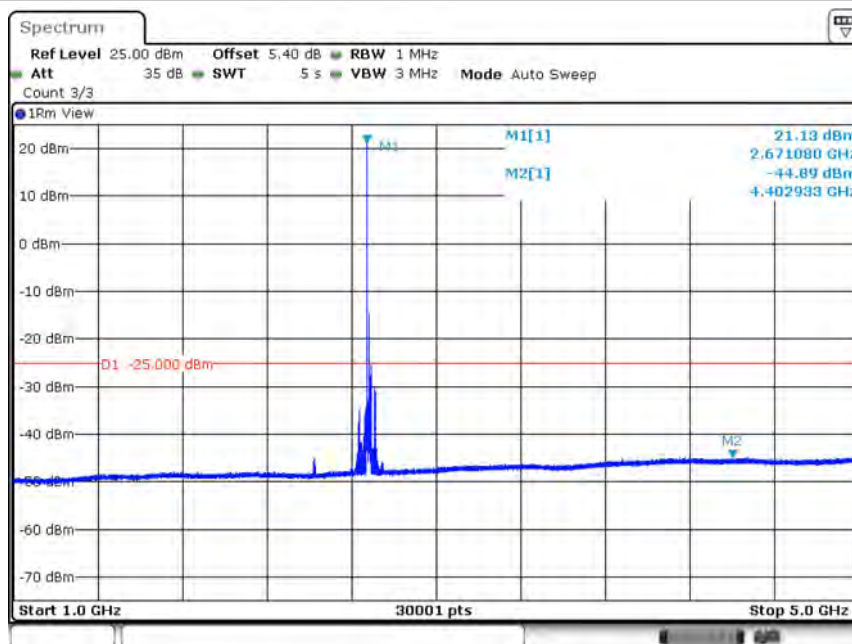


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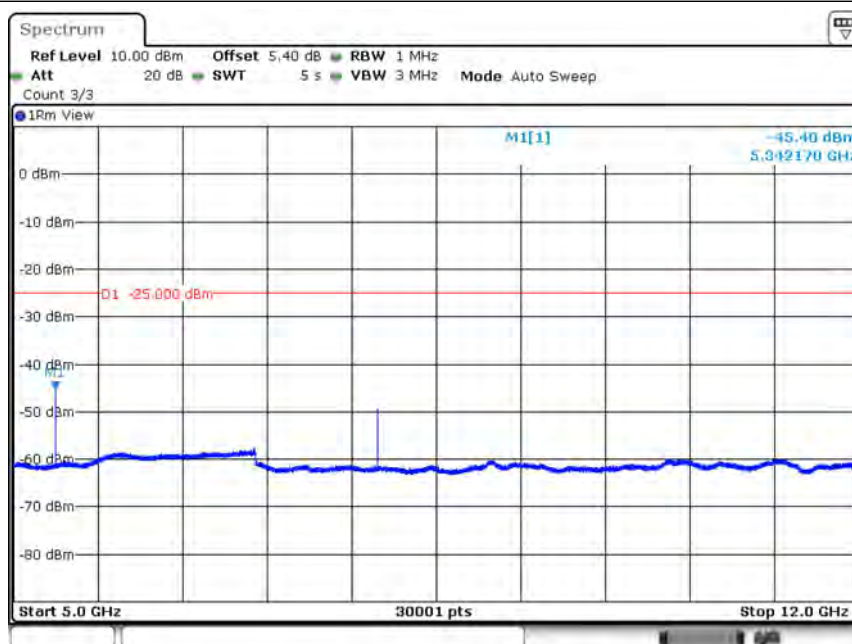
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Band41-20MHz-16QAM-41490-1RB#0-Range2:1000~5000MHz



Date: 12 JUL 2020 12:36:15

Band41-20MHz-16QAM-41490-1RB#0-Range3:5000~12000MHz



Date: 12 JUL 2020 12:36:37

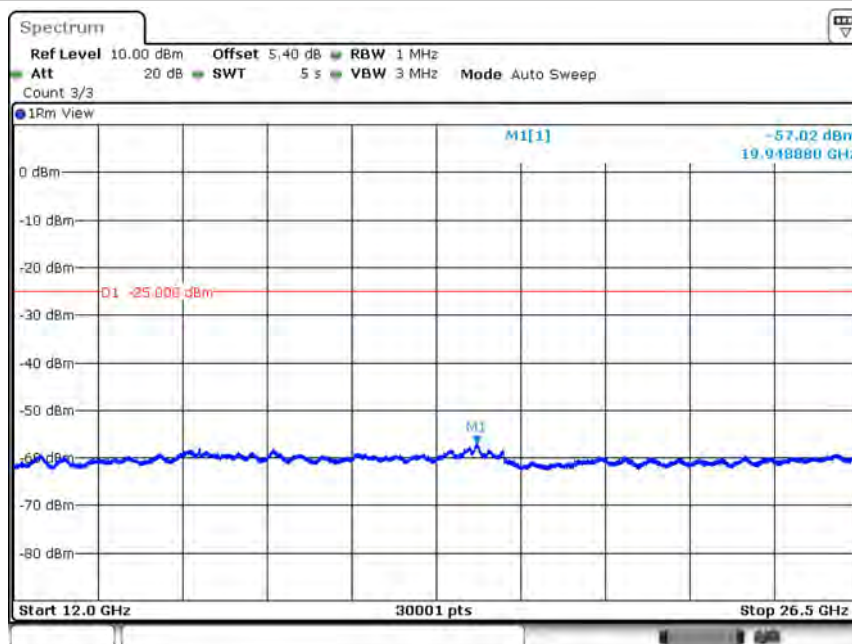


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Band41-20MHz-16QAM-41490-1RB#0-Range4:12000~26500MHz



Date: 12 JUL 2020 12:36:59



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
75.1073	-84.27	-25.00	59.27	Vertical
750.6490	-75.34	-25.00	50.34	Vertical
1677.3355	-50.31	-25.00	25.31	Vertical
5072.0691	-57.57	-25.00	32.57	Vertical
14482.3827	-47.88	-25.00	22.88	Vertical
17994.9998	-40.18	-25.00	15.18	Vertical
44.0172	-86.26	-25.00	61.26	Horizontal
633.6127	-77.29	-25.00	52.29	Horizontal
1819.7640	-48.41	-25.00	23.41	Horizontal
5072.0691	-57.34	-25.00	32.34	Horizontal
16405.9469	-44.08	-25.00	19.08	Horizontal
17999.5000	-45.28	-25.00	20.28	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
69.5780	-83.16	-25.00	58.16	Vertical
683.0852	-76.99	-25.00	51.99	Vertical
1818.1636	-49.32	-25.00	24.32	Vertical
5168.0723	-56.56	-25.00	31.56	Vertical
14460.3820	-47.47	-25.00	22.47	Vertical
17999.5000	-40.59	-25.00	15.59	Vertical
40.2825	-87.06	-25.00	62.06	Horizontal
606.7423	-78.35	-25.00	53.35	Horizontal
1750.9502	-50.08	-25.00	25.08	Horizontal
5168.0723	-56.40	-25.00	31.40	Horizontal
16397.9466	-43.54	-25.00	18.54	Horizontal
17997.9999	-44.78	-25.00	19.78	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
76.9989	-82.73	-25.00	57.73	Vertical
701.0796	-76.42	-25.00	51.42	Vertical
1820.5641	-49.40	-25.00	24.40	Vertical
5272.0757	-54.89	-25.00	29.89	Vertical
10544.2515	-48.57	-25.00	23.57	Vertical
14480.3827	-47.32	-25.00	22.32	Vertical
17997.4999	-40.04	-25.00	15.04	Vertical
44.2597	-86.32	-25.00	61.32	Horizontal
759.6220	-74.93	-25.00	49.93	Horizontal
1816.5633	-48.66	-25.00	23.66	Horizontal
5272.5758	-54.50	-25.00	29.50	Horizontal
7908.1636	-46.67	-25.00	21.67	Horizontal
16390.4463	-43.87	-25.00	18.87	Horizontal
17996.4999	-45.50	-25.00	20.50	Horizontal

Remark:

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



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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	VL	NT	0.20	0.000080	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VN	NT	-1.60	-0.000638	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VH	NT	3.00	0.001197	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	4.50	0.001735	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-1.30	-0.000501	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	0.70	0.000270	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VL	NT	4.40	0.001642	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VN	NT	-1.00	-0.000373	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VH	NT	-0.60	-0.000224	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VL	NT	-0.30	-0.000120	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VN	NT	3.40	0.001357	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VH	NT	1.70	0.000678	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VL	NT	5.10	0.001967	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VN	NT	5.70	0.002198	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VH	NT	3.00	0.001157	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VL	NT	-4.00	-0.001493	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VN	NT	-2.30	-0.000858	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VH	NT	2.90	0.001082	±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
Band41	20MHz	QPSK	39750	100RB#0	NV	-30	3.80	0.001516	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-20	2.50	0.000998	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	0	-2.90	-0.001157	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	10	-1.40	-0.000559	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	20	5.80	0.002314	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	30	4.00	0.001596	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	40	2.00	0.000798	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	50	4.70	0.001875	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	3.00	0.001157	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	5.50	0.002121	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	7.20	0.002777	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	4.30	0.001658	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	4.70	0.001813	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	3.80	0.001465	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	7.60	0.002931	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	6.00	0.002314	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-30	-3.30	-0.001231	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-20	3.10	0.001157	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	0	3.00	0.001119	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	10	-2.30	-0.000858	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	20	-2.00	-0.000746	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	30	1.40	0.000522	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	40	2.40	0.000896	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	50	3.30	0.001231	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-30	1.30	0.000519	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-20	-0.60	-0.000239	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	0	-2.30	-0.000918	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	10	0.50	0.000200	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	20	-0.80	-0.000319	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	30	-5.60	-0.002235	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	40	-0.60	-0.000239	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	50	3.50	0.001397	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-30	0.40	0.000154	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-20	1.10	0.000424	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	0	5.30	0.002044	±2.5	PASS



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Band41	20MHz	16QAM	40620	100RB#0	NV	10	0.00	0.000000	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	20	2.20	0.000848	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	30	1.40	0.000540	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	40	5.10	0.001967	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	50	0.80	0.000309	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-30	0.70	0.000261	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-20	-2.10	-0.000784	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	0	3.20	0.001194	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	10	3.60	0.001343	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	20	-1.80	-0.000672	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	30	-2.60	-0.000970	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	40	-1.20	-0.000448	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	50	3.20	0.001194	±2.5	PASS



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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