



Appendix B

E-UTRA Band 41



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

ANT2:

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	24.45	27.76	30.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	24.81	28.12	30.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	24.68	27.99	30.00	PASS
Band41	5MHz	QPSK	39675	12RB#0	23.56	26.87	30.00	PASS
Band41	5MHz	QPSK	39675	12RB#6	23.71	27.02	30.00	PASS
Band41	5MHz	QPSK	39675	12RB#13	23.64	26.95	30.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	23.61	26.92	30.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	24.36	27.67	30.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	24.13	27.44	30.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	24.64	27.95	30.00	PASS
Band41	5MHz	QPSK	40620	12RB#0	23.35	26.66	30.00	PASS
Band41	5MHz	QPSK	40620	12RB#6	23.31	26.62	30.00	PASS
Band41	5MHz	QPSK	40620	12RB#13	23.34	26.65	30.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	23.27	26.58	30.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	24.32	27.63	30.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	24.52	27.83	30.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	24.52	27.83	30.00	PASS
Band41	5MHz	QPSK	41565	12RB#0	23.61	26.92	30.00	PASS
Band41	5MHz	QPSK	41565	12RB#6	23.69	27	30.00	PASS
Band41	5MHz	QPSK	41565	12RB#13	23.58	26.89	30.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	23.62	26.93	30.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	23.34	26.65	30.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	23.40	26.71	30.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	23.22	26.53	30.00	PASS
Band41	5MHz	16QAM	39675	12RB#6	22.64	25.95	30.00	PASS
Band41	5MHz	16QAM	39675	12RB#0	22.58	25.89	30.00	PASS



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Band41	5MHz	16QAM	39675	12RB#13	22.63	25.94	30.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	22.69	26	30.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	22.76	26.07	30.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	23.09	26.4	30.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	22.80	26.11	30.00	PASS
Band41	5MHz	16QAM	40620	12RB#13	22.35	25.66	30.00	PASS
Band41	5MHz	16QAM	40620	12RB#0	22.37	25.68	30.00	PASS
Band41	5MHz	16QAM	40620	12RB#6	22.34	25.65	30.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	22.38	25.69	30.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	23.26	26.57	30.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	23.38	26.69	30.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	23.10	26.41	30.00	PASS
Band41	5MHz	16QAM	41565	12RB#0	22.72	26.03	30.00	PASS
Band41	5MHz	16QAM	41565	12RB#6	22.80	26.11	30.00	PASS
Band41	5MHz	16QAM	41565	12RB#13	22.50	25.81	30.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	22.62	25.93	30.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	24.86	28.17	30.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	24.42	27.73	30.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	24.57	27.88	30.00	PASS
Band41	10MHz	QPSK	39700	25RB#0	23.58	26.89	30.00	PASS
Band41	10MHz	QPSK	39700	25RB#12	23.69	27	30.00	PASS
Band41	10MHz	QPSK	39700	25RB#25	23.51	26.82	30.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	23.54	26.85	30.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	24.17	27.48	30.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	24.15	27.46	30.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	24.58	27.89	30.00	PASS
Band41	10MHz	QPSK	40620	25RB#25	23.22	26.53	30.00	PASS
Band41	10MHz	QPSK	40620	25RB#0	23.38	26.69	30.00	PASS
Band41	10MHz	QPSK	40620	25RB#12	23.30	26.61	30.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	23.36	26.67	30.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	24.79	28.1	30.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	24.52	27.83	30.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	24.30	27.61	30.00	PASS



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Band41	10MHz	QPSK	41540	25RB#0	23.68	26.99	30.00	PASS
Band41	10MHz	QPSK	41540	25RB#25	23.52	26.83	30.00	PASS
Band41	10MHz	QPSK	41540	25RB#12	23.59	26.9	30.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	23.63	26.94	30.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	23.26	26.57	30.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	23.22	26.53	30.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	23.34	26.65	30.00	PASS
Band41	10MHz	16QAM	39700	25RB#25	22.70	26.01	30.00	PASS
Band41	10MHz	16QAM	39700	25RB#12	22.76	26.07	30.00	PASS
Band41	10MHz	16QAM	39700	25RB#0	22.63	25.94	30.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	22.71	26.02	30.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.82	26.13	30.00	PASS
Band41	10MHz	16QAM	40620	1RB#0	22.88	26.19	30.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	23.05	26.36	30.00	PASS
Band41	10MHz	16QAM	40620	25RB#25	22.40	25.71	30.00	PASS
Band41	10MHz	16QAM	40620	25RB#0	22.38	25.69	30.00	PASS
Band41	10MHz	16QAM	40620	25RB#12	22.28	25.59	30.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	22.41	25.72	30.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	23.42	26.73	30.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	23.17	26.48	30.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	23.19	26.5	30.00	PASS
Band41	10MHz	16QAM	41540	25RB#0	22.61	25.92	30.00	PASS
Band41	10MHz	16QAM	41540	25RB#12	22.57	25.88	30.00	PASS
Band41	10MHz	16QAM	41540	25RB#25	22.63	25.94	30.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	22.43	25.74	30.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	24.17	27.48	30.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	24.74	28.05	30.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	24.33	27.64	30.00	PASS
Band41	15MHz	QPSK	39725	36RB#0	23.57	26.88	30.00	PASS
Band41	15MHz	QPSK	39725	36RB#18	23.55	26.86	30.00	PASS
Band41	15MHz	QPSK	39725	36RB#39	23.54	26.85	30.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	23.53	26.84	30.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	24.27	27.58	30.00	PASS



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Band41	15MHz	QPSK	40620	1RB#74	24.14	27.45	30.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	24.36	27.67	30.00	PASS
Band41	15MHz	QPSK	40620	36RB#0	23.35	26.66	30.00	PASS
Band41	15MHz	QPSK	40620	36RB#18	23.32	26.63	30.00	PASS
Band41	15MHz	QPSK	40620	36RB#39	23.21	26.52	30.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	23.31	26.62	30.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	24.33	27.64	30.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	24.50	27.81	30.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	24.59	27.9	30.00	PASS
Band41	15MHz	QPSK	41515	36RB#0	23.73	27.04	30.00	PASS
Band41	15MHz	QPSK	41515	36RB#18	23.68	26.99	30.00	PASS
Band41	15MHz	QPSK	41515	36RB#39	23.50	26.81	30.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	23.64	26.95	30.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	22.99	26.3	30.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	23.03	26.34	30.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.99	26.3	30.00	PASS
Band41	15MHz	16QAM	39725	36RB#18	22.55	25.86	30.00	PASS
Band41	15MHz	16QAM	39725	36RB#0	22.61	25.92	30.00	PASS
Band41	15MHz	16QAM	39725	36RB#39	22.82	26.13	30.00	PASS
Band41	15MHz	16QAM	39725	75RB#0	22.62	25.93	30.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.88	26.19	30.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	22.92	26.23	30.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	22.93	26.24	30.00	PASS
Band41	15MHz	16QAM	40620	36RB#39	22.29	25.6	30.00	PASS
Band41	15MHz	16QAM	40620	36RB#0	22.43	25.74	30.00	PASS
Band41	15MHz	16QAM	40620	36RB#18	22.29	25.6	30.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	22.37	25.68	30.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	23.01	26.32	30.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	23.38	26.69	30.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	23.12	26.43	30.00	PASS
Band41	15MHz	16QAM	41515	36RB#0	22.63	25.94	30.00	PASS
Band41	15MHz	16QAM	41515	36RB#18	22.63	25.94	30.00	PASS
Band41	15MHz	16QAM	41515	36RB#39	22.56	25.87	30.00	PASS



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Band41	15MHz	16QAM	41515	75RB#0	22.53	25.84	30.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	24.30	27.61	30.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	24.92	28.23	30.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	24.16	27.47	30.00	PASS
Band41	20MHz	QPSK	39750	50RB#0	23.55	26.86	30.00	PASS
Band41	20MHz	QPSK	39750	50RB#25	23.65	26.96	30.00	PASS
Band41	20MHz	QPSK	39750	50RB#50	23.46	26.77	30.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	23.44	26.75	30.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	24.08	27.39	30.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	23.96	27.27	30.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	24.54	27.85	30.00	PASS
Band41	20MHz	QPSK	40620	50RB#50	23.32	26.63	30.00	PASS
Band41	20MHz	QPSK	40620	50RB#0	23.36	26.67	30.00	PASS
Band41	20MHz	QPSK	40620	50RB#25	23.39	26.7	30.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	23.31	26.62	30.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	24.90	28.21	30.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	24.50	27.81	30.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	24.22	27.53	30.00	PASS
Band41	20MHz	QPSK	41490	50RB#0	23.75	27.06	30.00	PASS
Band41	20MHz	QPSK	41490	50RB#50	23.49	26.8	30.00	PASS
Band41	20MHz	QPSK	41490	50RB#25	23.73	27.04	30.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	23.63	26.94	30.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	23.10	26.41	30.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	22.86	26.17	30.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	23.30	26.61	30.00	PASS
Band41	20MHz	16QAM	39750	50RB#50	22.53	25.84	30.00	PASS
Band41	20MHz	16QAM	39750	50RB#25	22.80	26.11	30.00	PASS
Band41	20MHz	16QAM	39750	50RB#0	22.69	26	30.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	22.53	25.84	30.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	22.65	25.96	30.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	22.58	25.89	30.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	22.94	26.25	30.00	PASS
Band41	20MHz	16QAM	40620	50RB#50	22.40	25.71	30.00	PASS



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Band41	20MHz	16QAM	40620	50RB#0	22.27	25.58	30.00	PASS
Band41	20MHz	16QAM	40620	50RB#25	22.46	25.77	30.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	22.32	25.63	30.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	23.28	26.59	30.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	23.20	26.51	30.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	23.13	26.44	30.00	PASS
Band41	20MHz	16QAM	41490	50RB#0	22.65	25.96	30.00	PASS
Band41	20MHz	16QAM	41490	50RB#25	22.60	25.91	30.00	PASS
Band41	20MHz	16QAM	41490	50RB#50	22.56	25.87	30.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	22.54	25.85	30.00	PASS

Remark:

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

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$

The conducted Power is measured by Base Station Simulator



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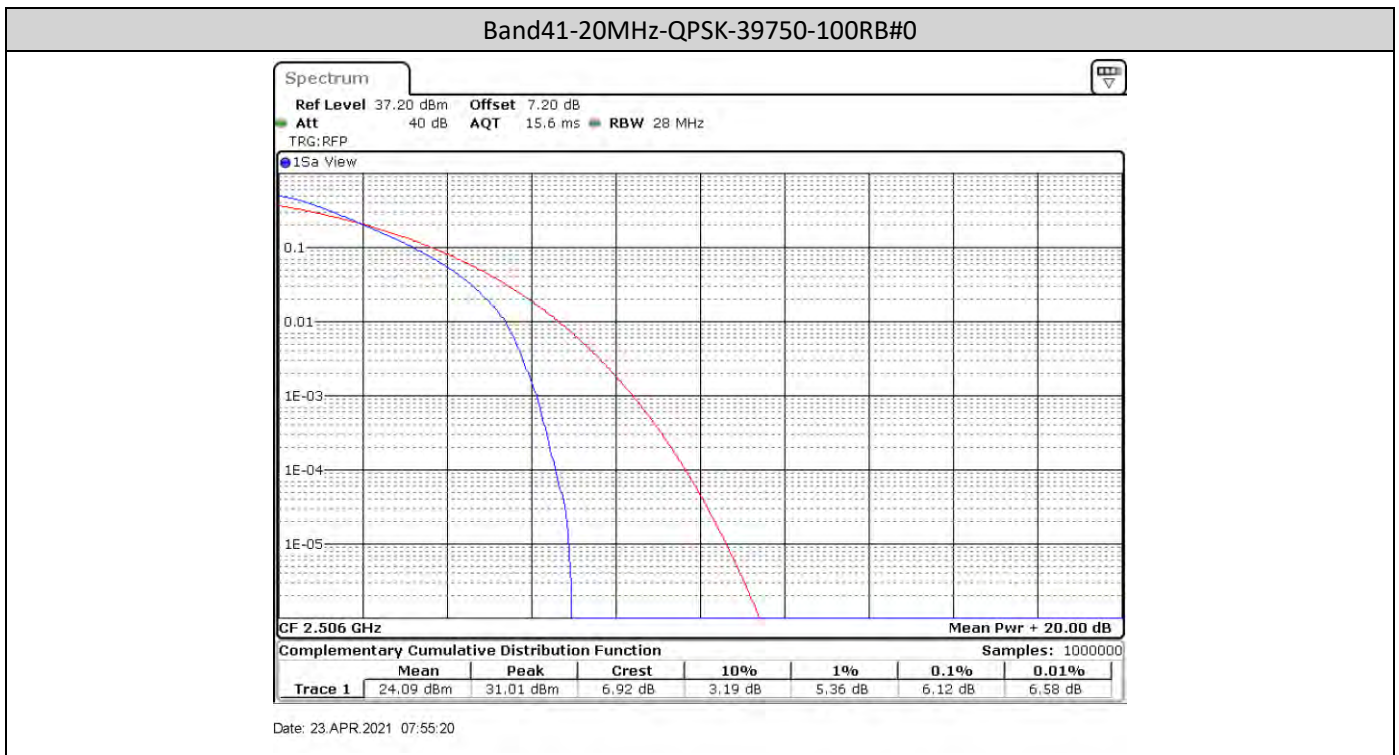


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	6.12	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	8.84	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	8.70	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	9.68	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	9.71	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	9.59	13	PASS

2.2. Test Plots



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



Date: 23.APR.2021 07:55:43

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



Date: 23.APR.2021 07:56:06



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



Date: 23.APR.2021 07:55:31

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



Date: 23.APR.2021 07:55:54

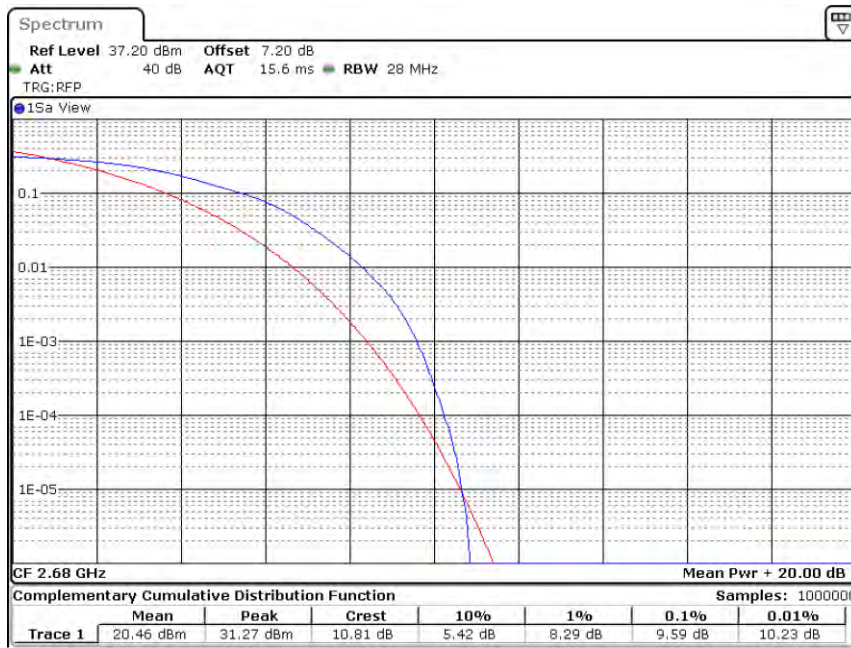


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Band41-20MHz-16QAM-41490-100RB#0



Date: 23.APR.2021 07:56:17

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



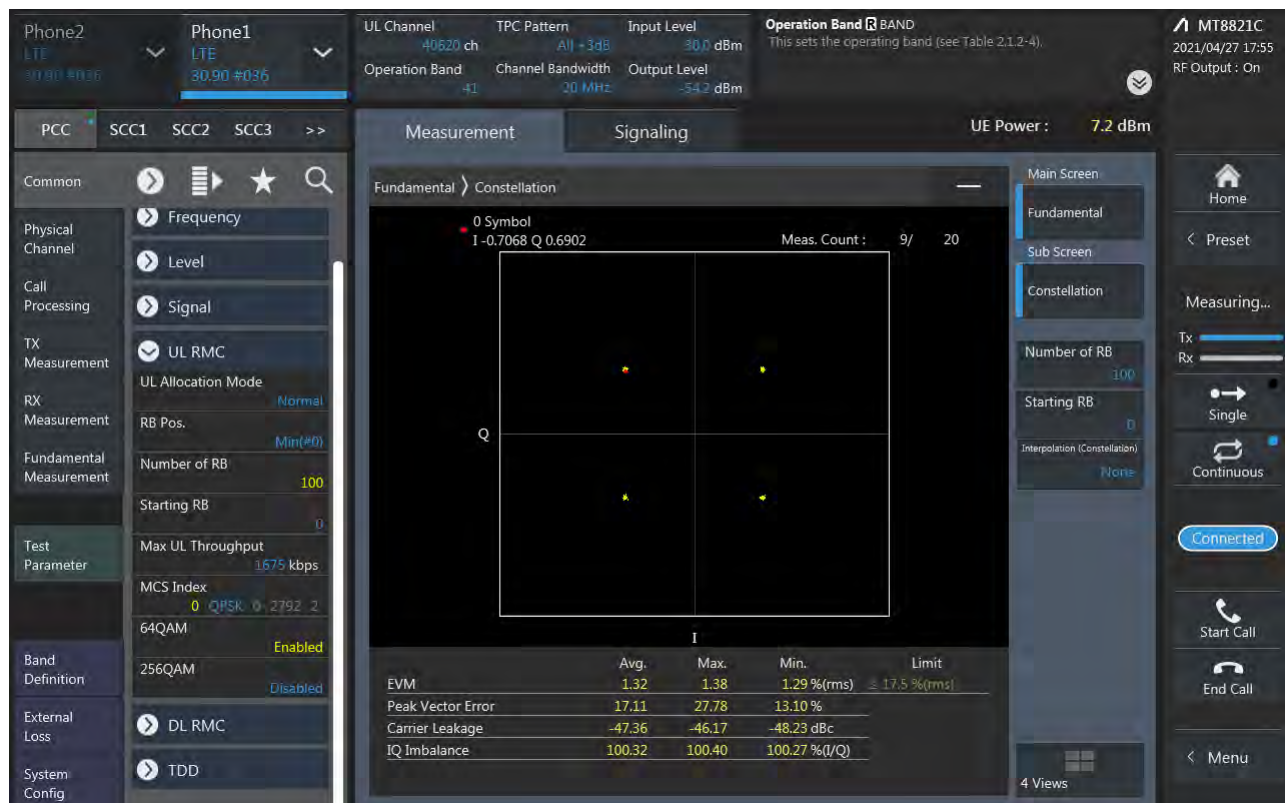
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH

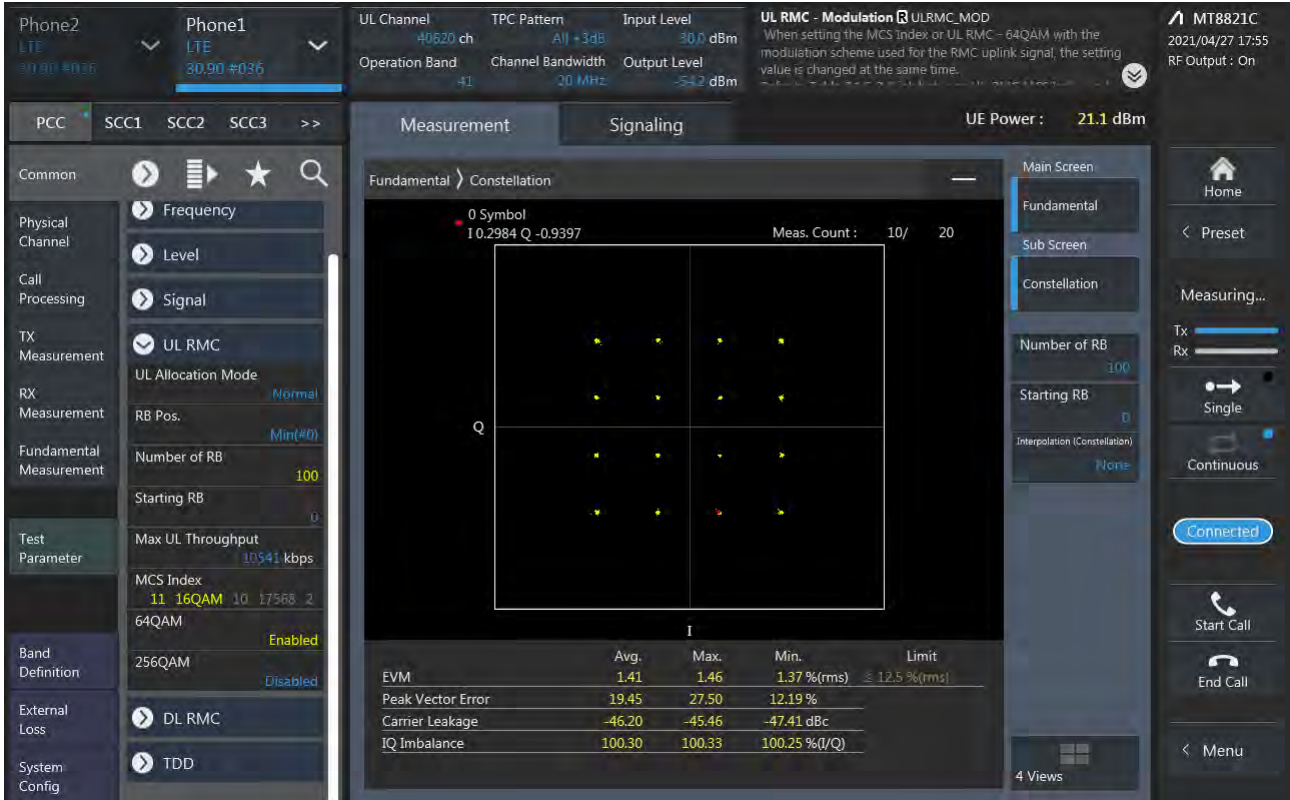


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3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.476	5.060	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.466	4.920	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.476	4.910	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.496	5.190	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.496	5.010	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.496	4.950	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.891	9.940	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.911	9.700	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.911	9.720	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.931	9.880	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.911	9.720	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.911	9.620	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.487	17.160	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.487	15.480	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.487	15.360	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.516	21.780	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.487	24.540	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.457	15.660	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.902	20.400	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.902	20.400	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.902	20.080	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.902	19.760	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.862	19.520	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.862	19.360	PASS

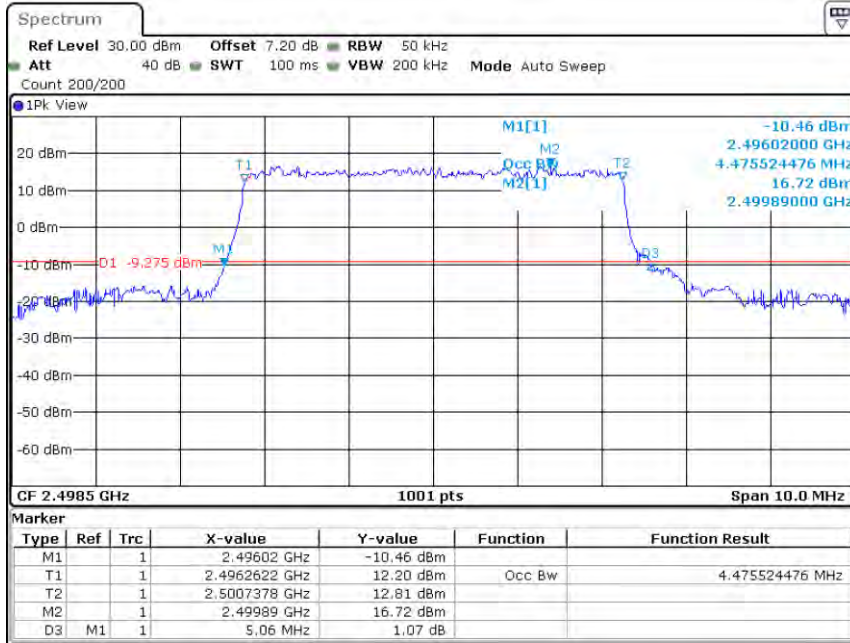


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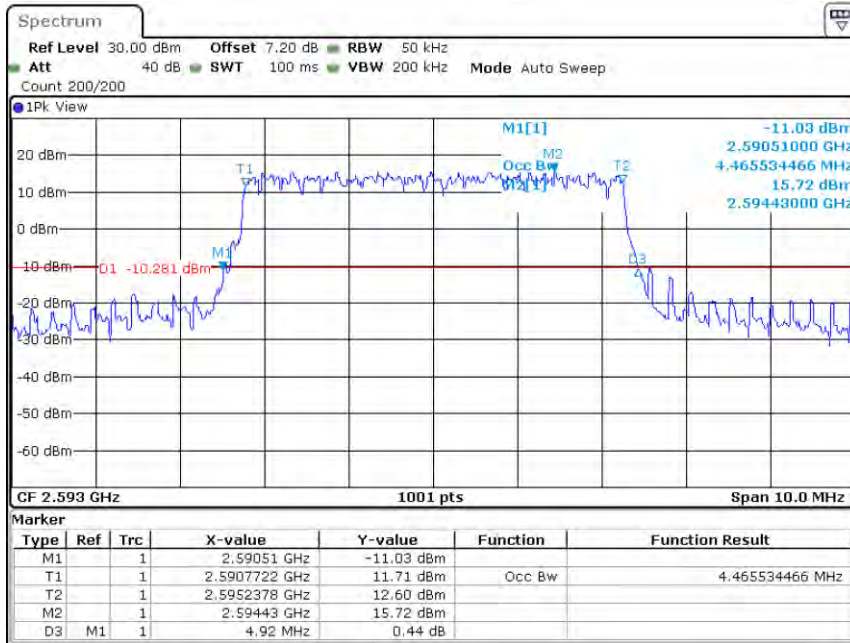
4.2. Test Plots

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



Date: 23.APR.2021 07:21:53

Band41-5MHz-QPSK-40620-25RB#0-4.466

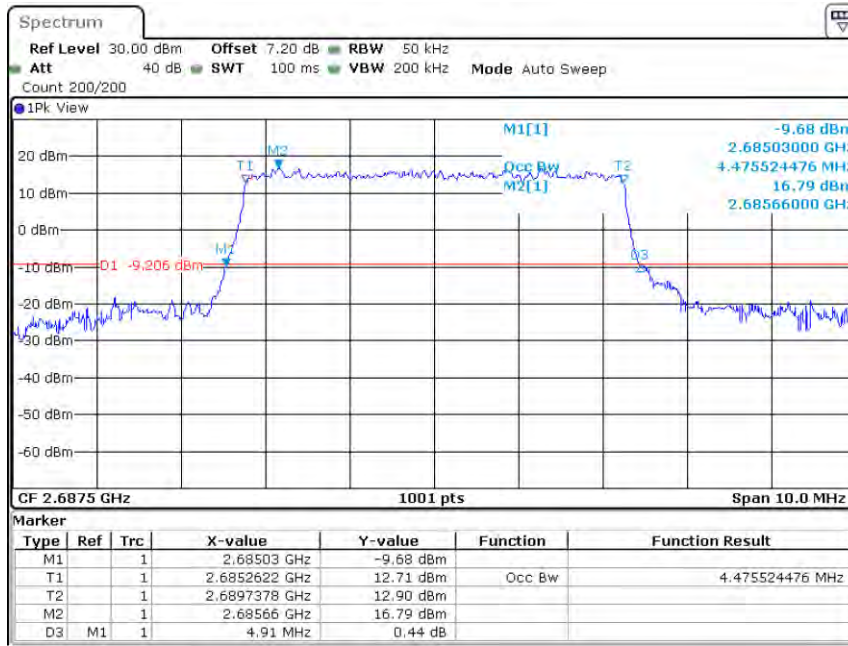


Date: 23.APR.2021 07:23:02



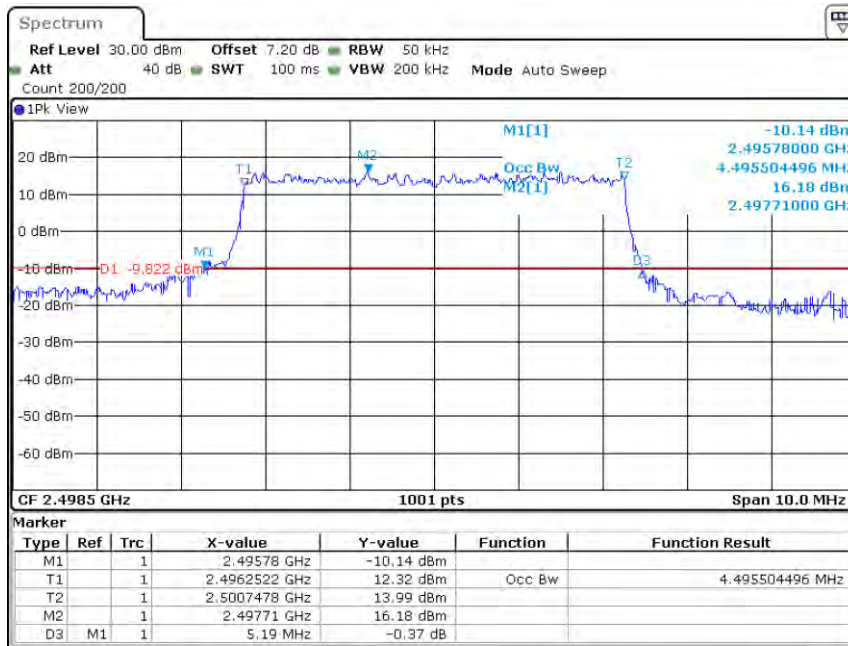
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Band41-5MHz-QPSK-41565-25RB#0-4.476



Date: 23.APR 2021 07:24:07

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



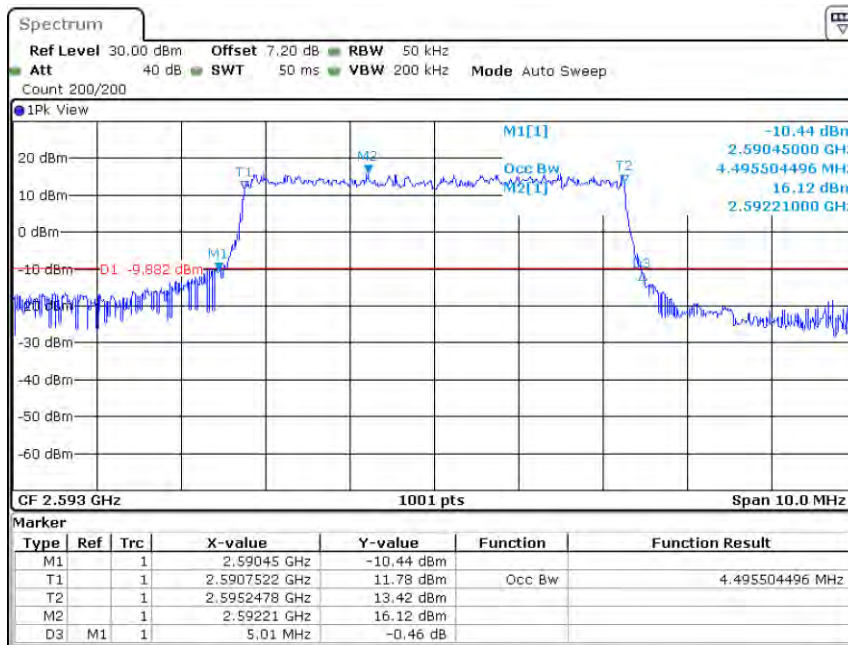
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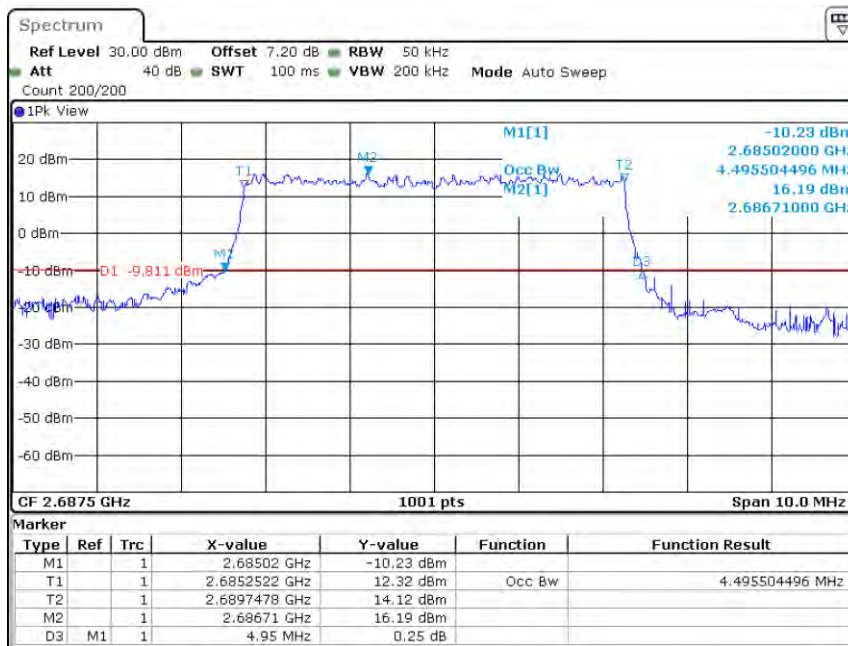


Band41-5MHz-16QAM-40620-25RB#0-4.496



Date: 23.APR 2021 07:23:34

Band41-5MHz-16QAM-41565-25RB#0-4.496



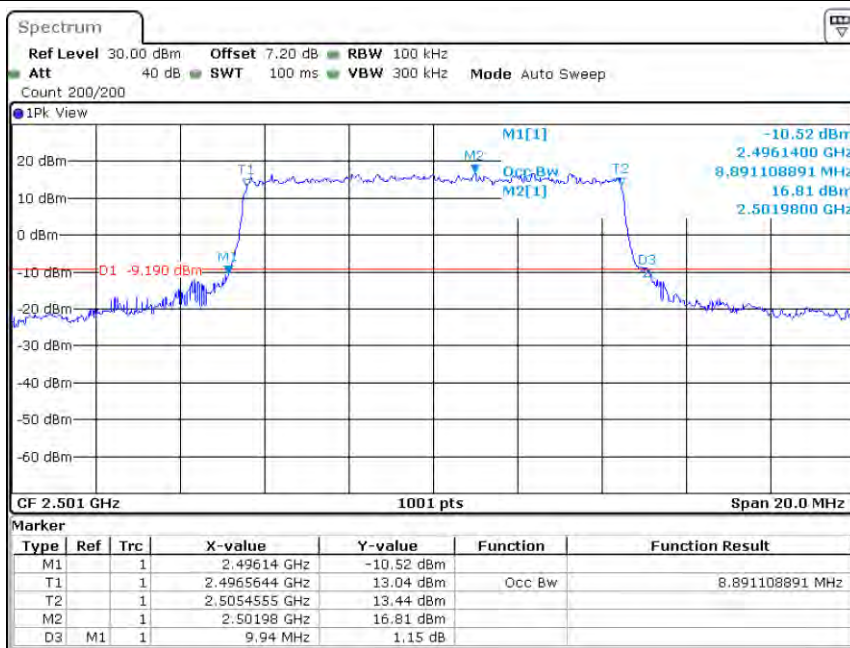
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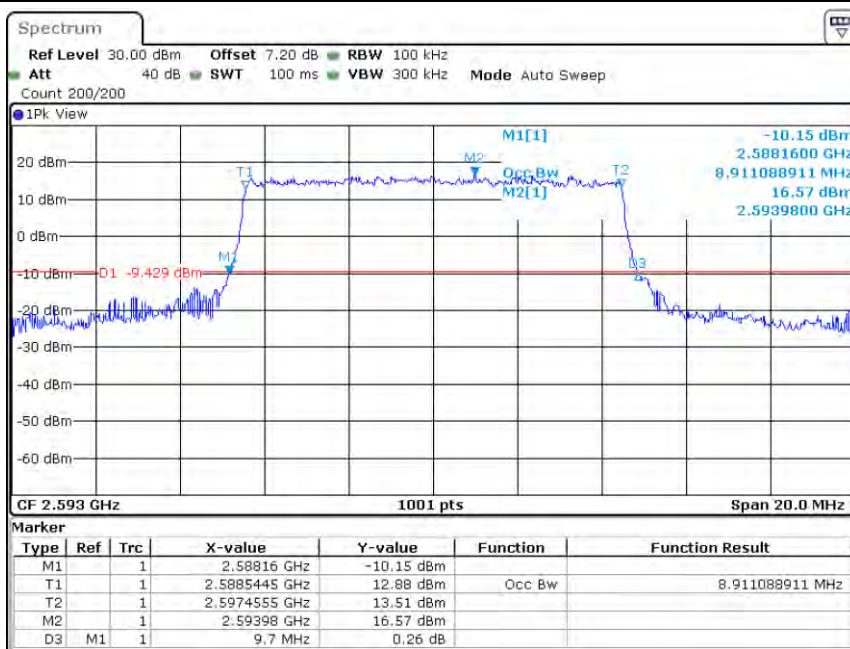


Band41-10MHz-QPSK-39700-50RB#0-8.891



Date: 23.APR 2021 07:25:19

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



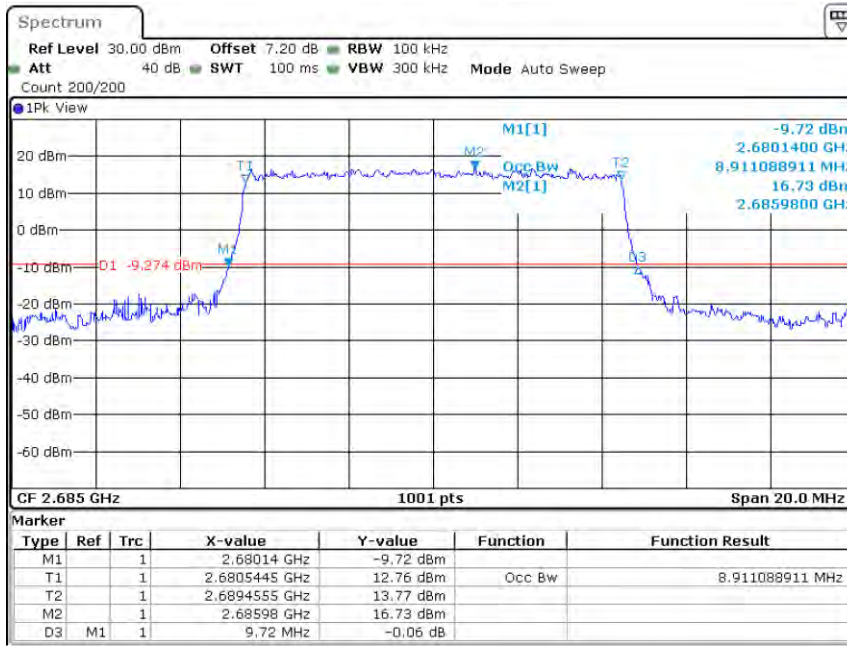
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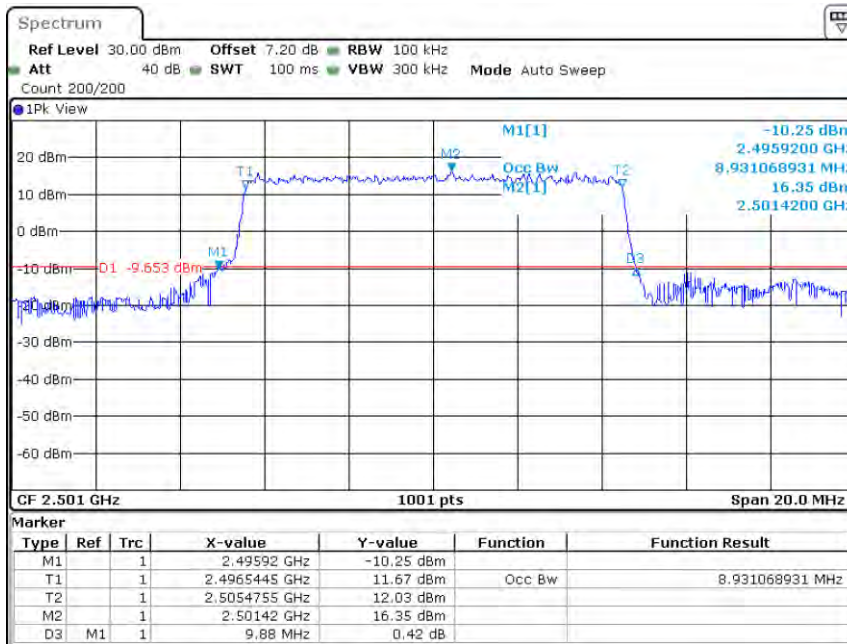


Band41-10MHz-QPSK-41540-50RB#0-8.911



Date: 23.APR 2021 07:27:31

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



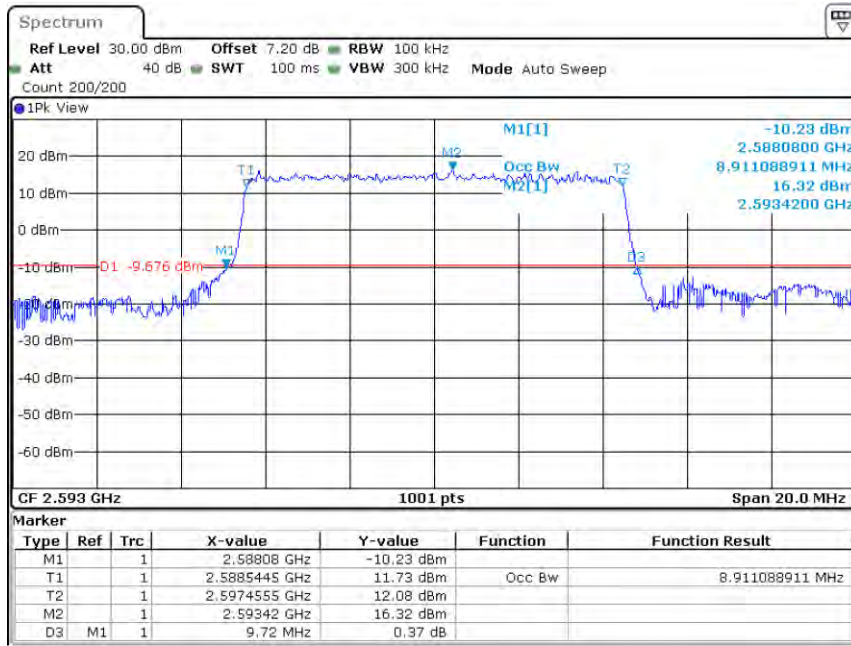
Date: 23.APR 2021 07:25:52



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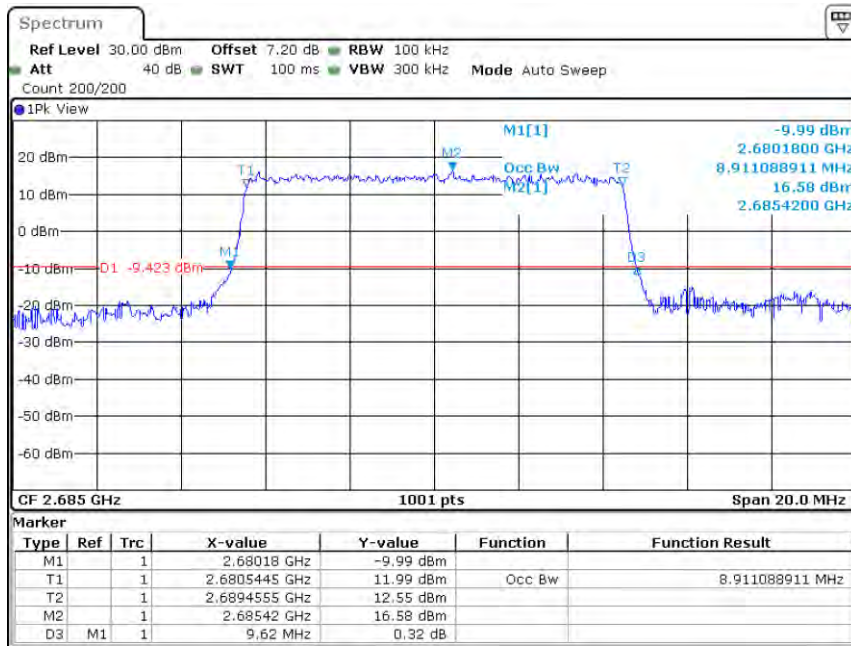


Band41-10MHz-16QAM-40620-50RB#0-8.911



Date: 23.APR 2021 07:28:58

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

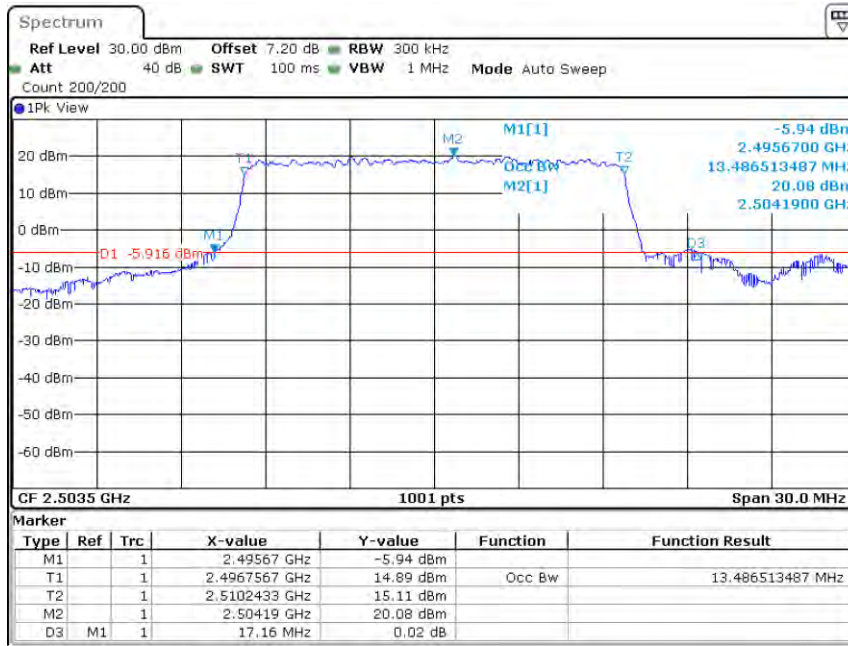


Date: 23.APR 2021 07:28:04



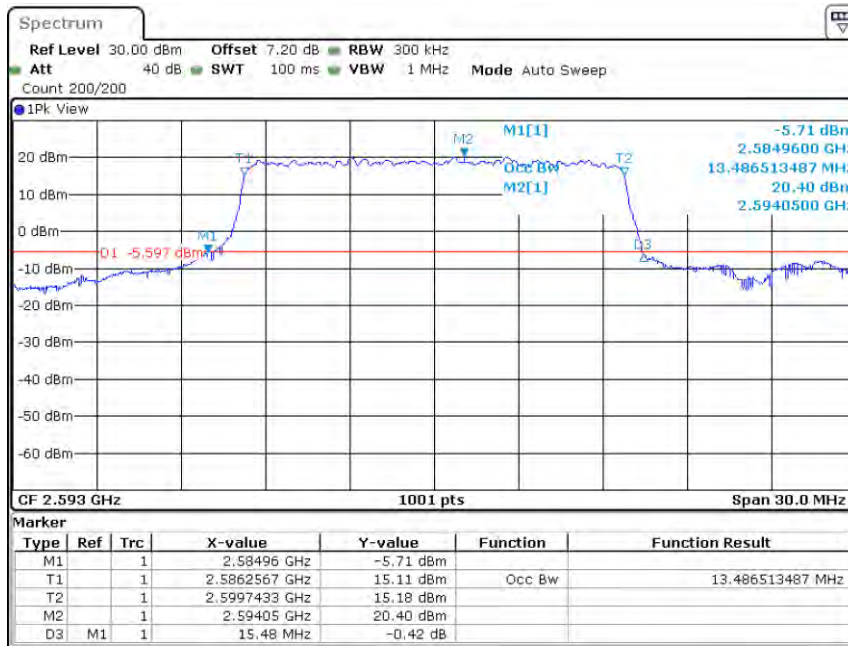
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Band41-15MHz-QPSK-39725-75RB#0-13.487



Date: 23.APR 2021 07:28:42

Band41-15MHz-QPSK-40620-75RB#0-13.487



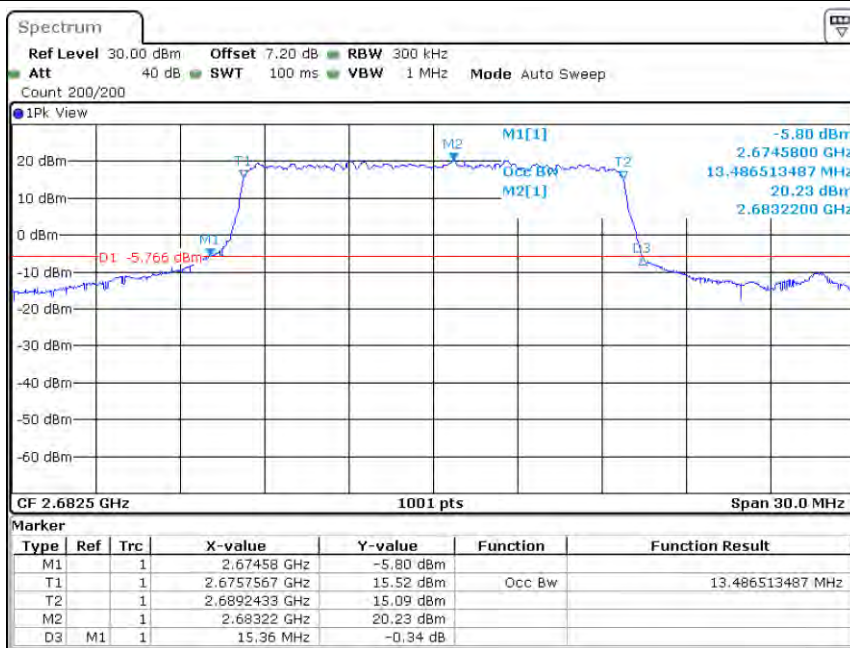
Date: 23.APR 2021 07:30:28



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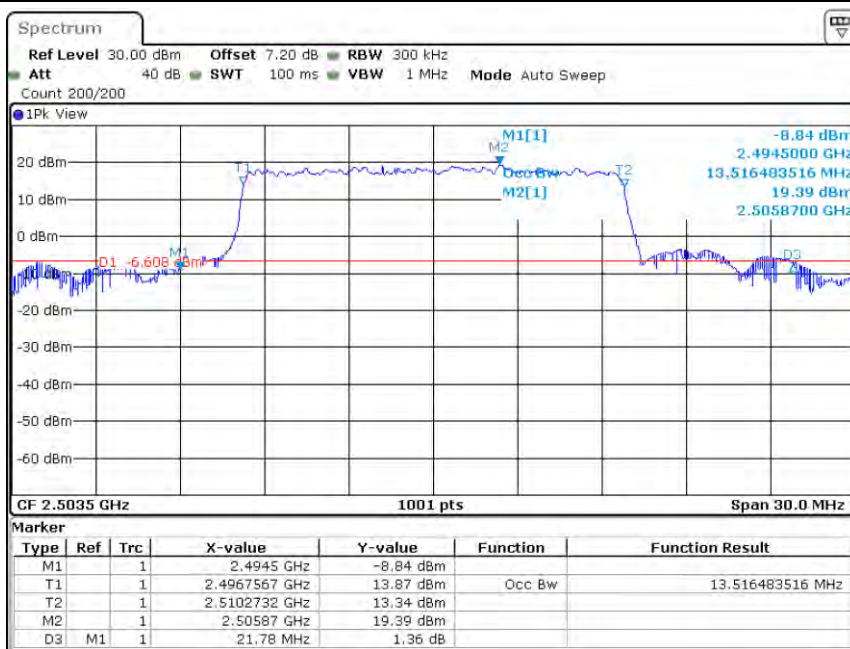


Band41-15MHz-QPSK-41515-75RB#0-13.487



Date: 23.APR 2021 07:32:26

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



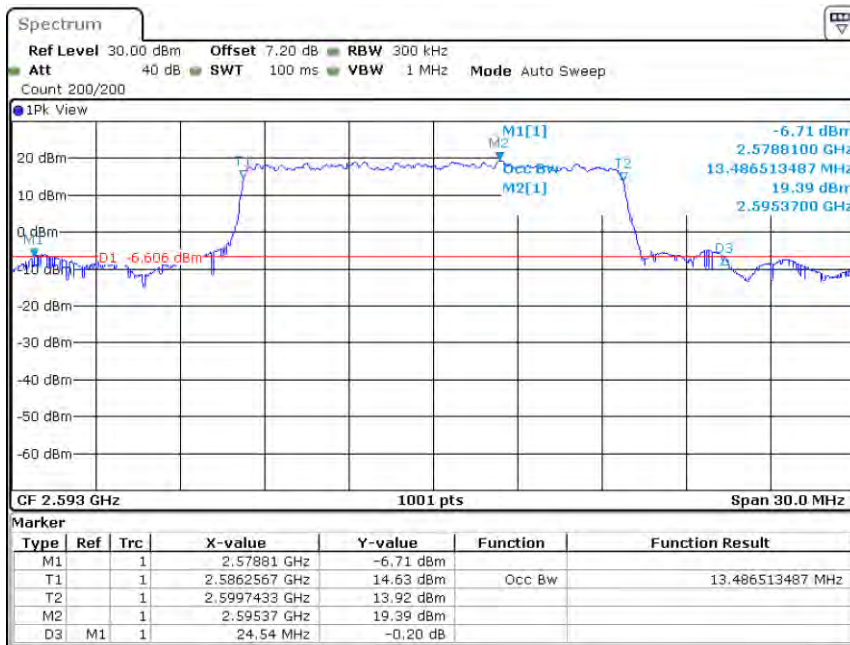
Date: 23.APR 2021 07:29:15



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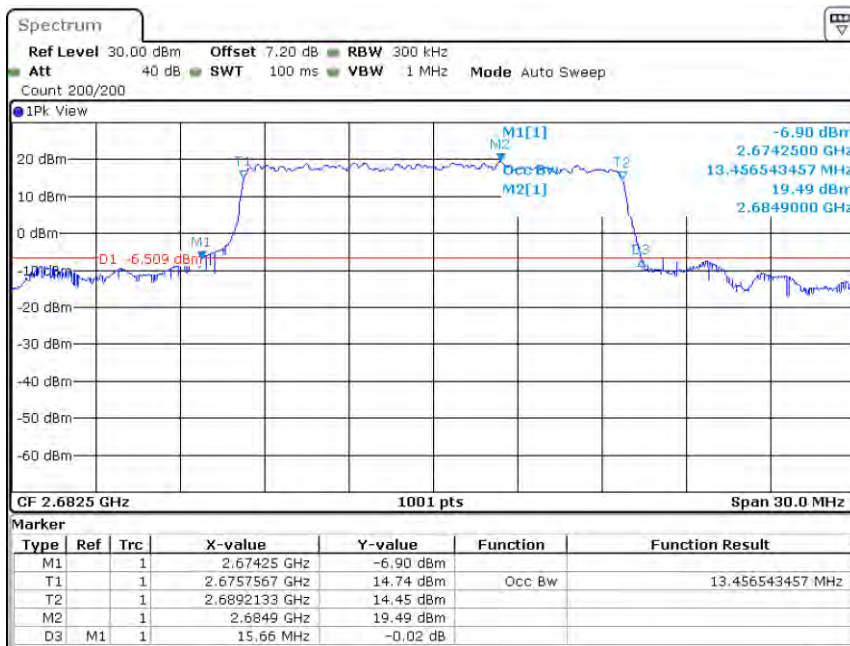


Band41-15MHz-16QAM-40620-75RB#0-13.487



Date: 23.APR 2021 07:31:19

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



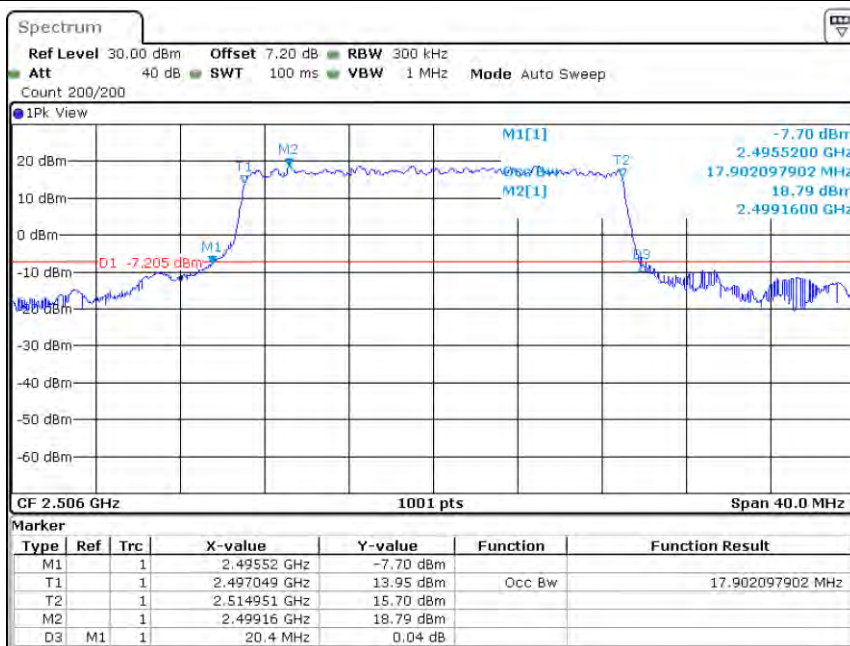
Date: 23.APR 2021 07:33:14



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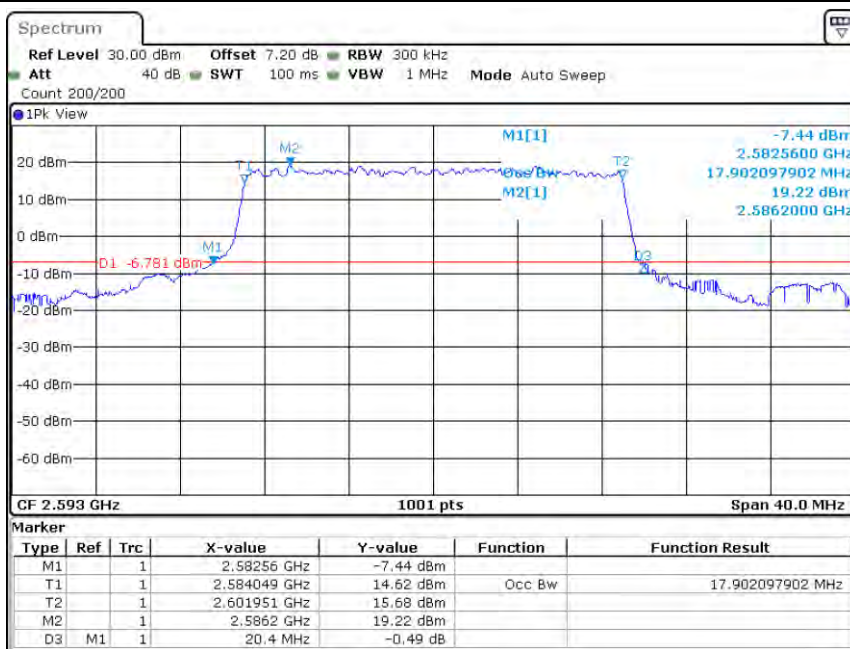


Band41-20MHz-QPSK-39750-100RB#0-17.902



Date: 23.APR 2021 07:33:56

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



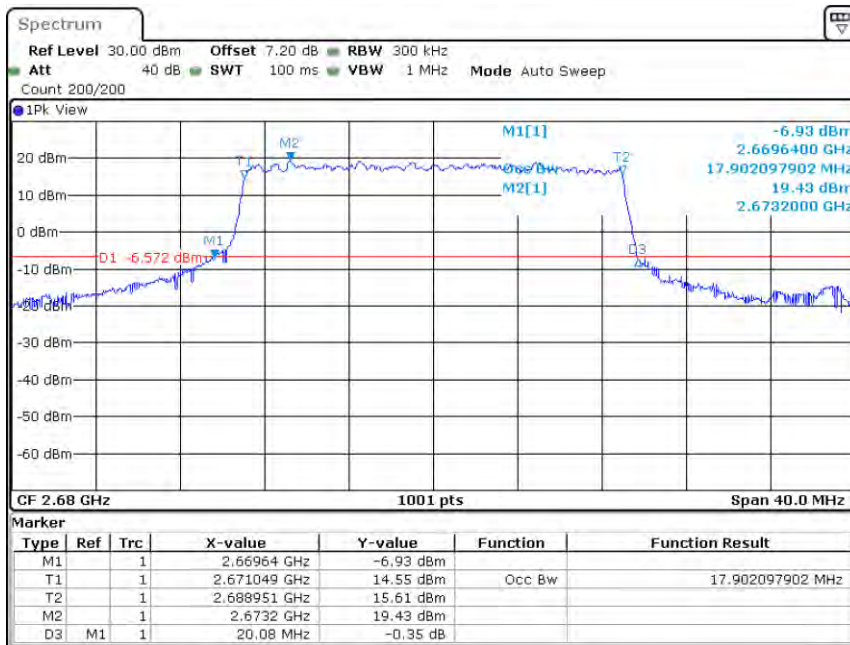
Date: 23.APR 2021 07:36:35



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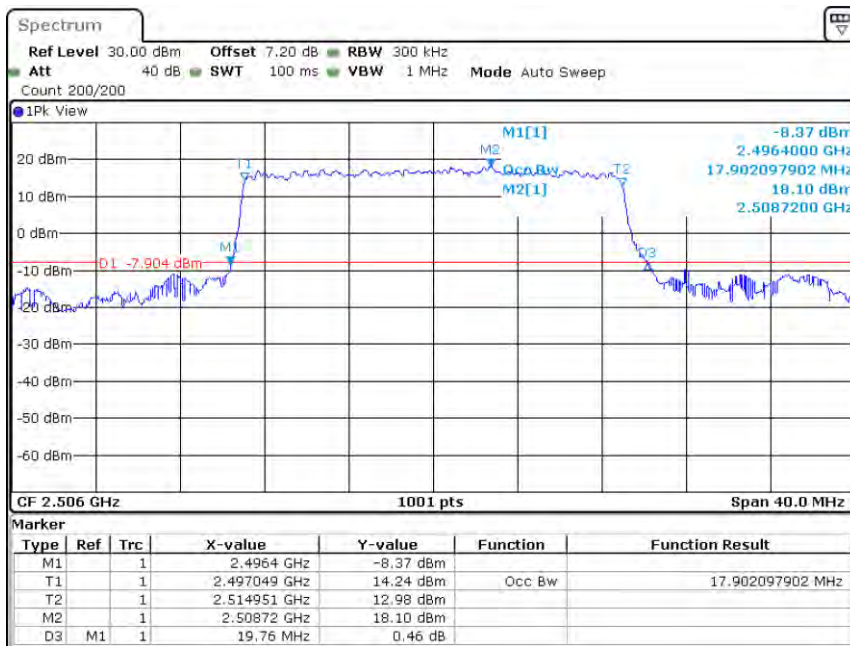


Band41-20MHz-QPSK-41490-100RB#0-17.902



Date: 23.APR 2021 07:37:49

Band41-20MHz-16QAM-39750-100RB#0-17.902



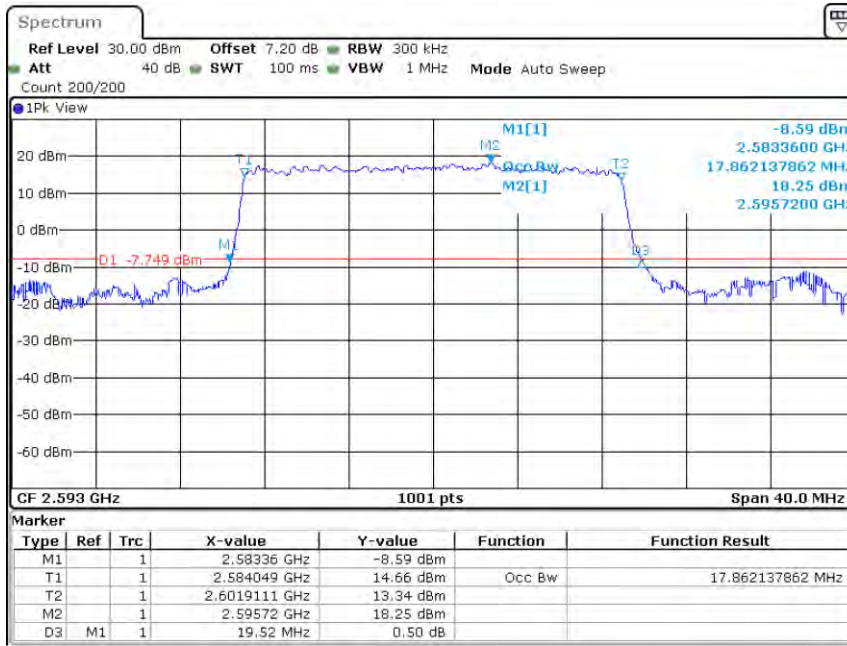
Date: 23.APR 2021 07:35:33



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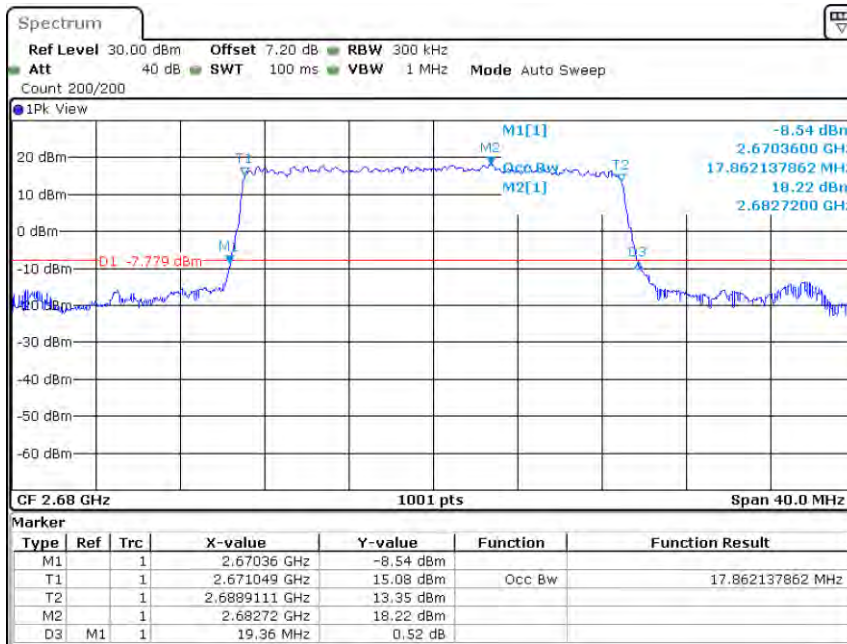


Band41-20MHz-16QAM-40620-100RB#0-17.862



Date: 23.APR 2021 07:37:11

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



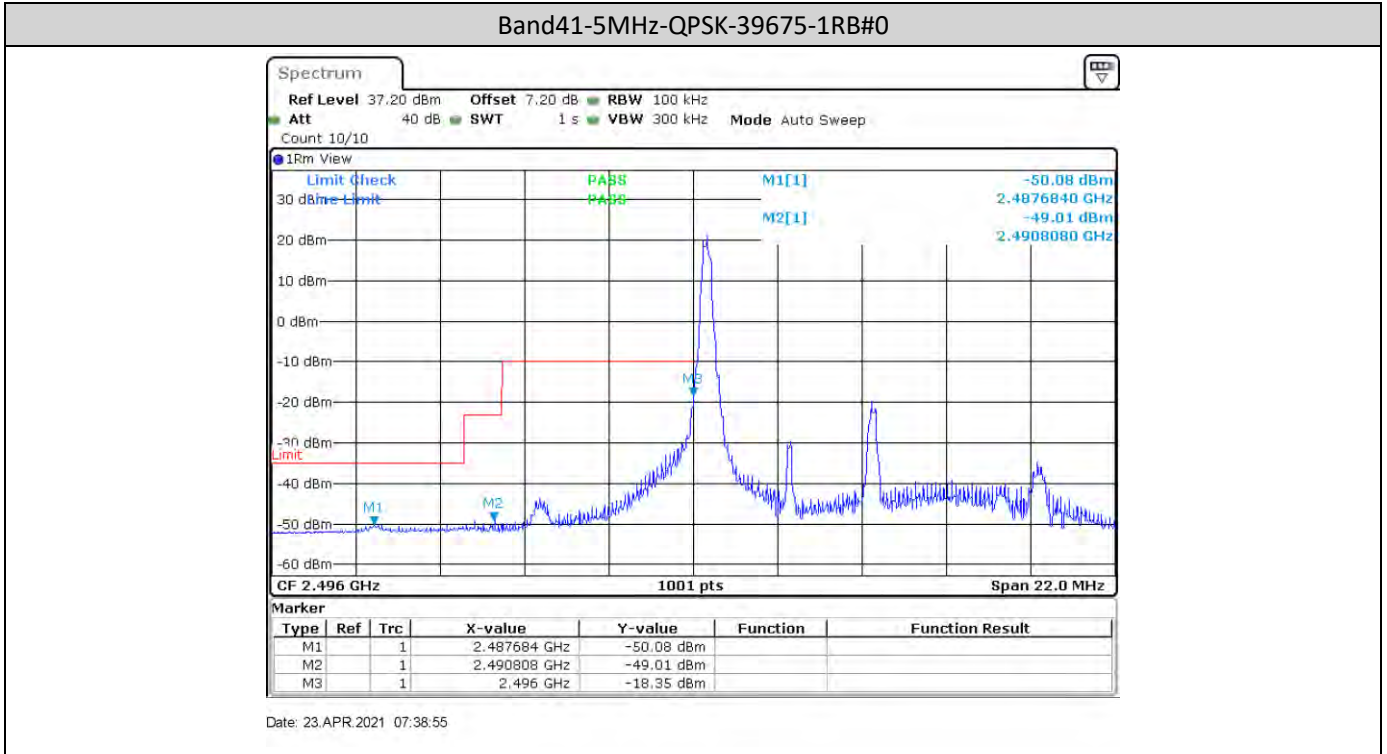
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5. Band Edge Compliance

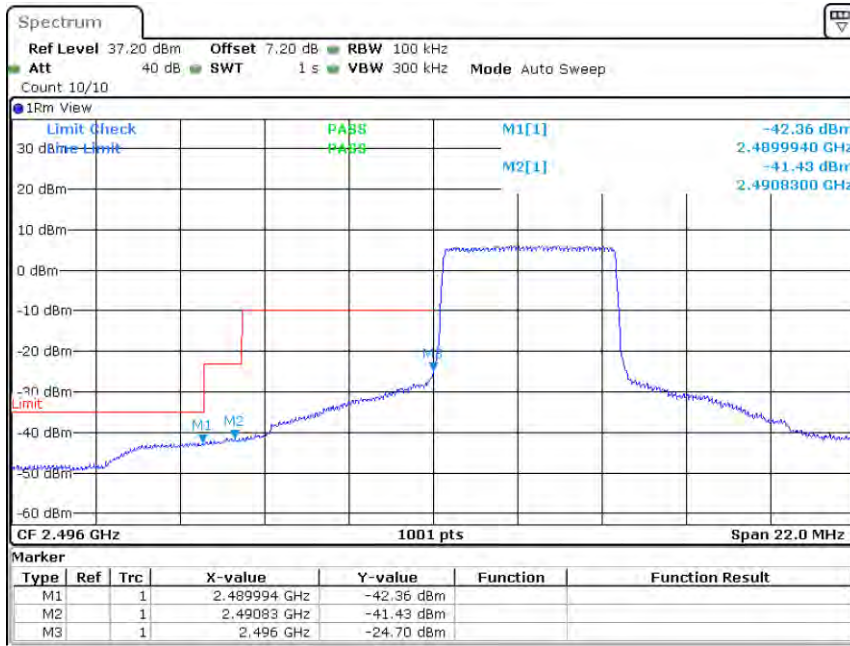
5.1. Test Plots



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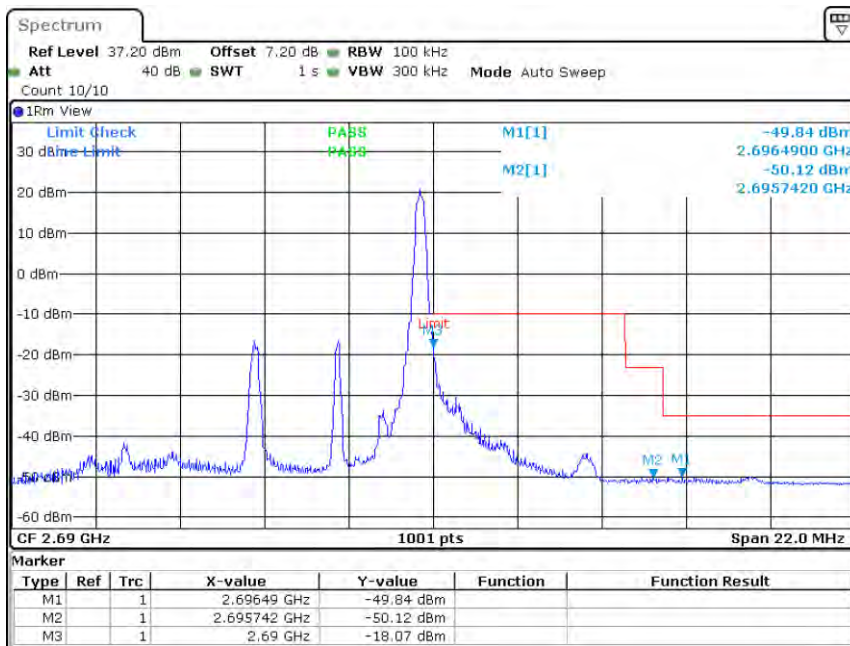
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Band41-5MHz-QPSK-39675-25RB#0



Date: 23.APR 2021 07:40:39

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

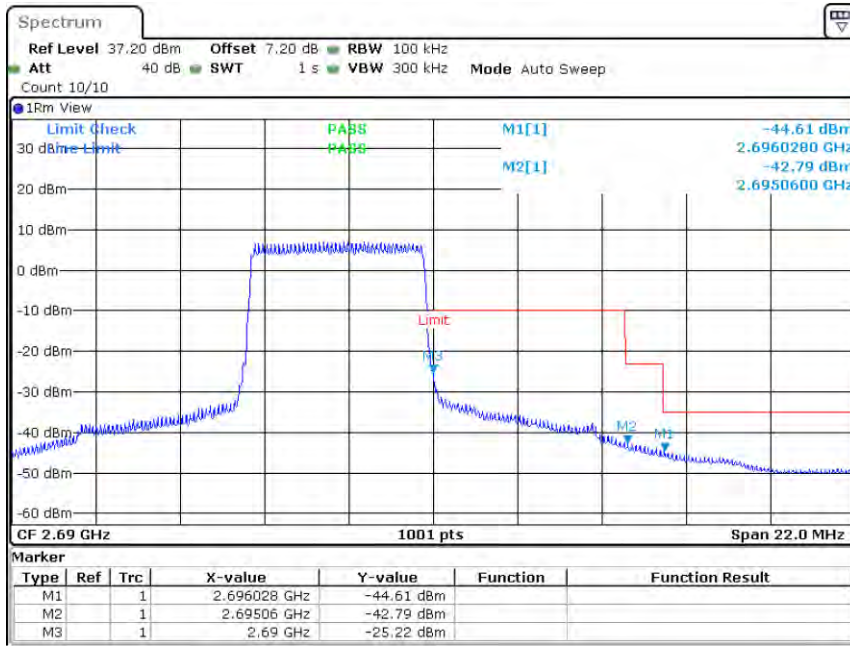


Date: 23.APR 2021 07:39:49



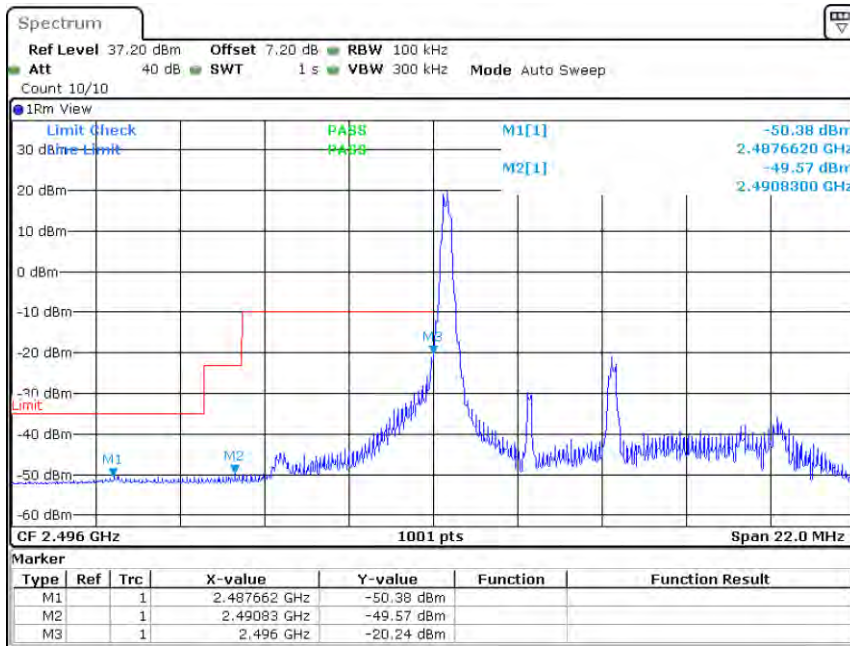
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Band41-5MHz-QPSK-41565-25RB#0



Date: 23.APR 2021 07:41:27

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

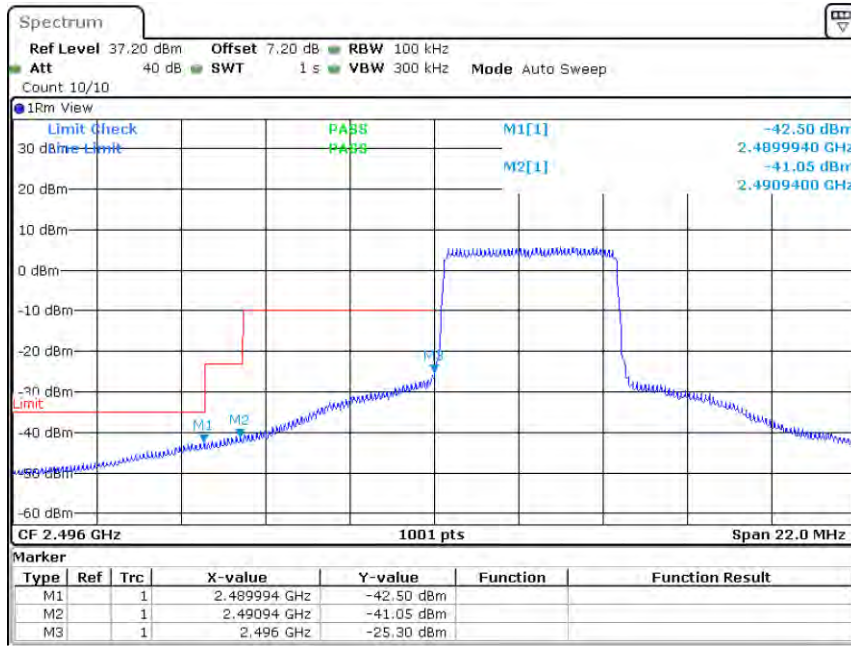


Date: 23.APR 2021 07:39:23



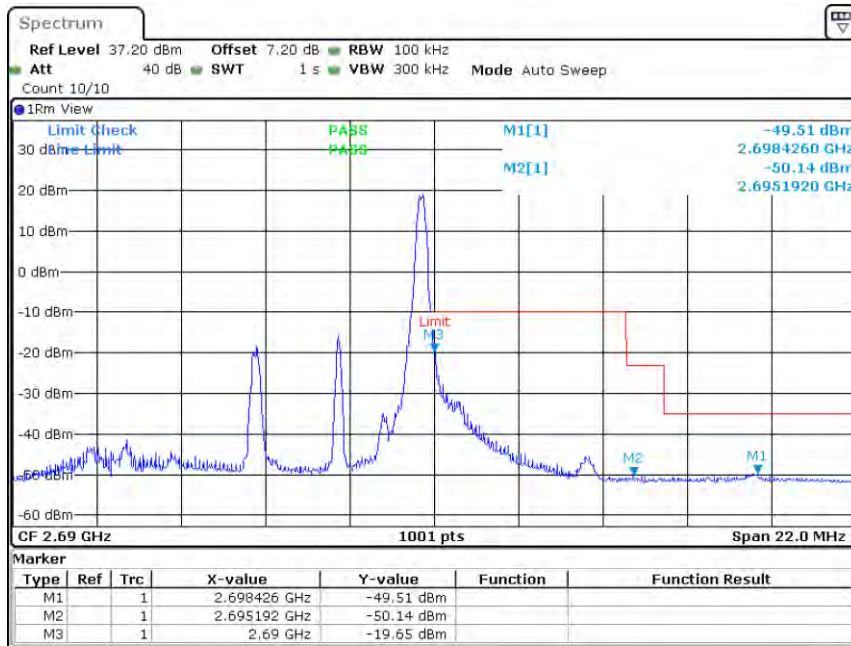
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Band41-5MHz-16QAM-39675-25RB#0



Date: 23.APR 2021 07:41:05

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

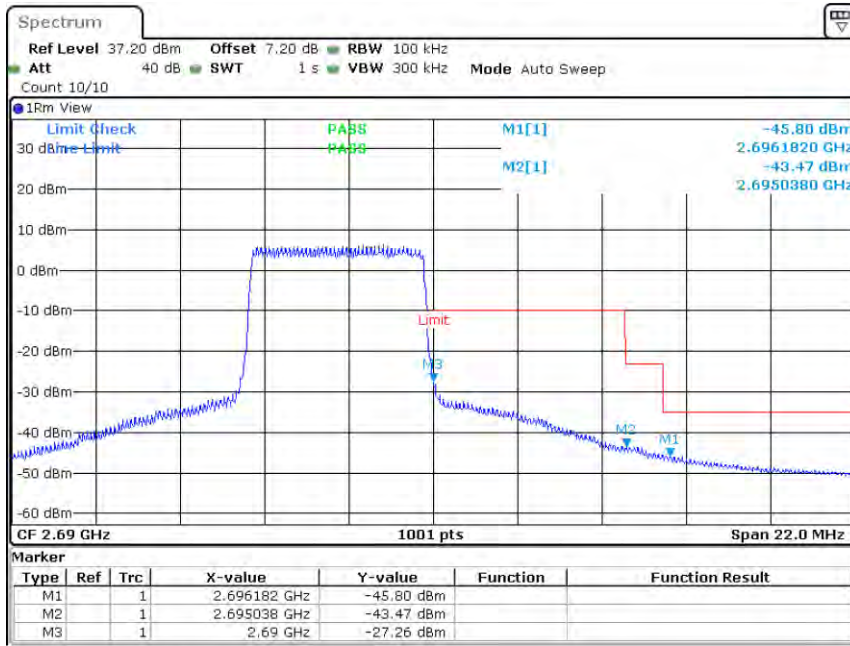


Date: 23.APR 2021 07:40:11



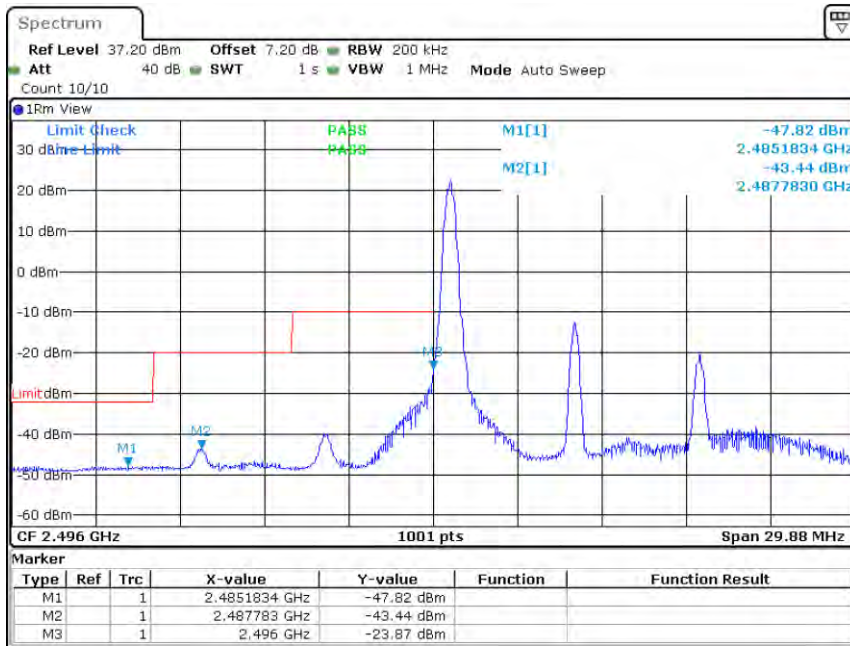
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Band41-5MHz-16QAM-41565-25RB#0



Date: 23.APR 2021 07:41:49

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

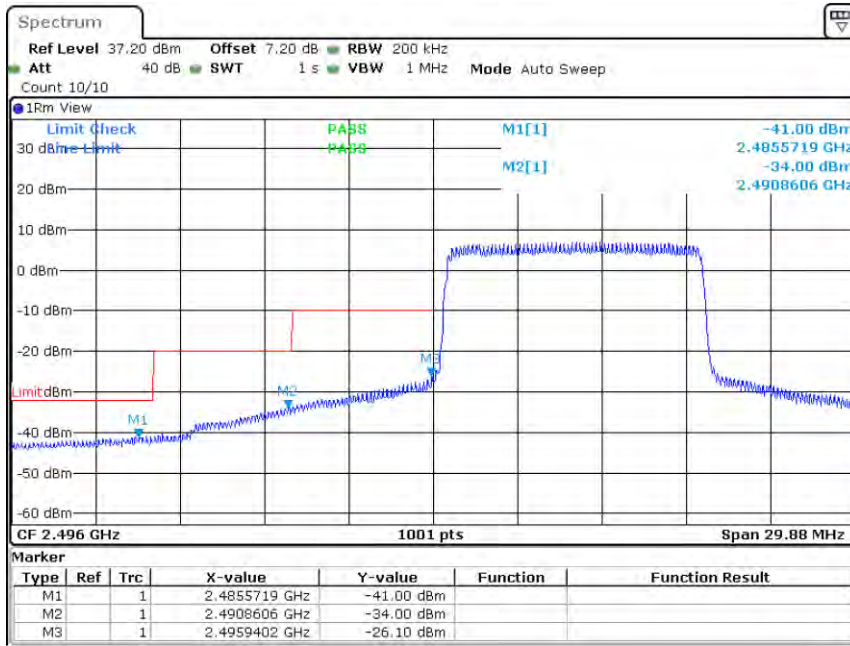


Date: 23.APR 2021 07:42:16



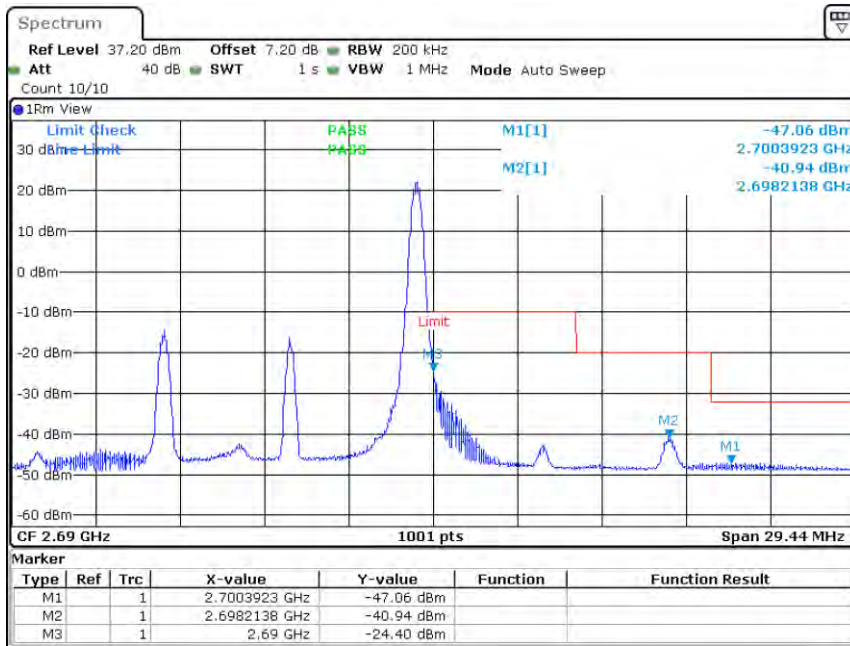
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Band41-10MHz-QPSK-39700-50RB#0



Date: 23.APR.2021 07:43:54

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

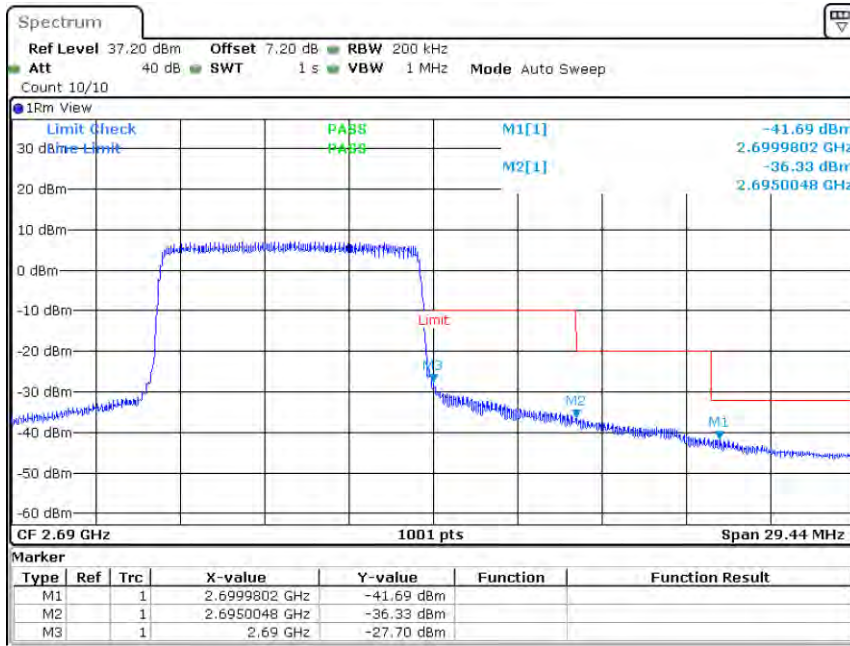


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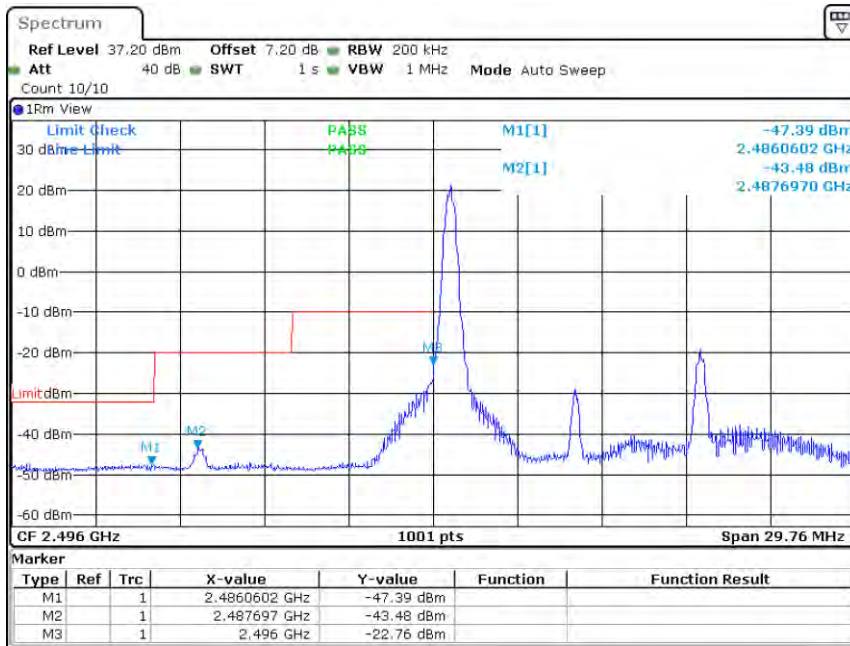
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Band41-10MHz-QPSK-41540-50RB#0



Date: 23.APR 2021 07:44:38

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

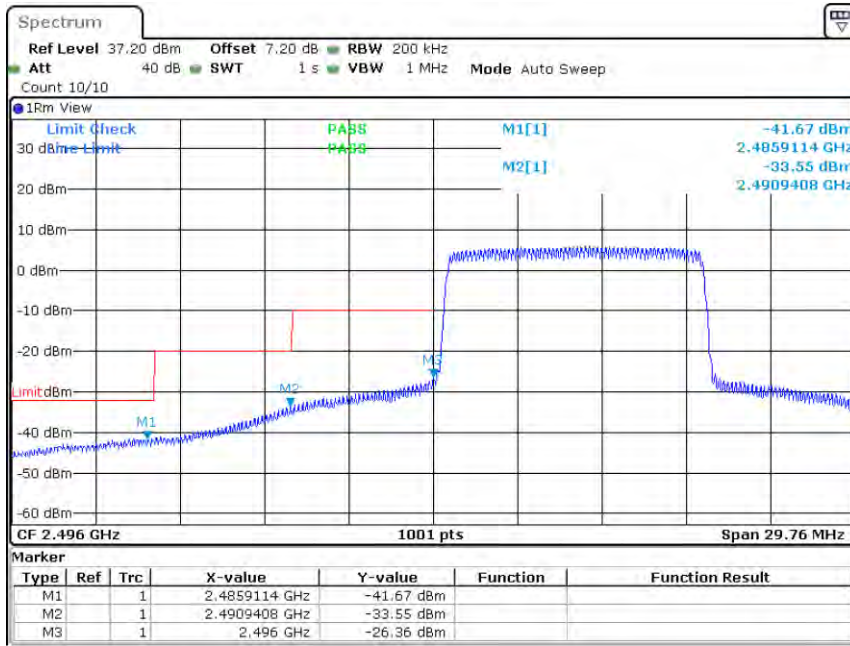


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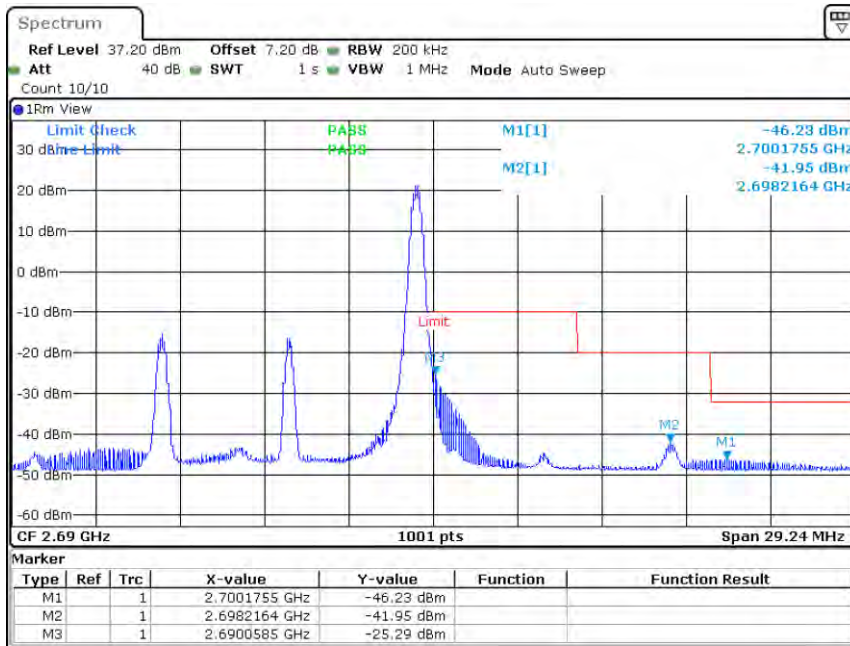
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Band41-10MHz-16QAM-39700-50RB#0



Date: 23.APR.2021 07:44:16

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



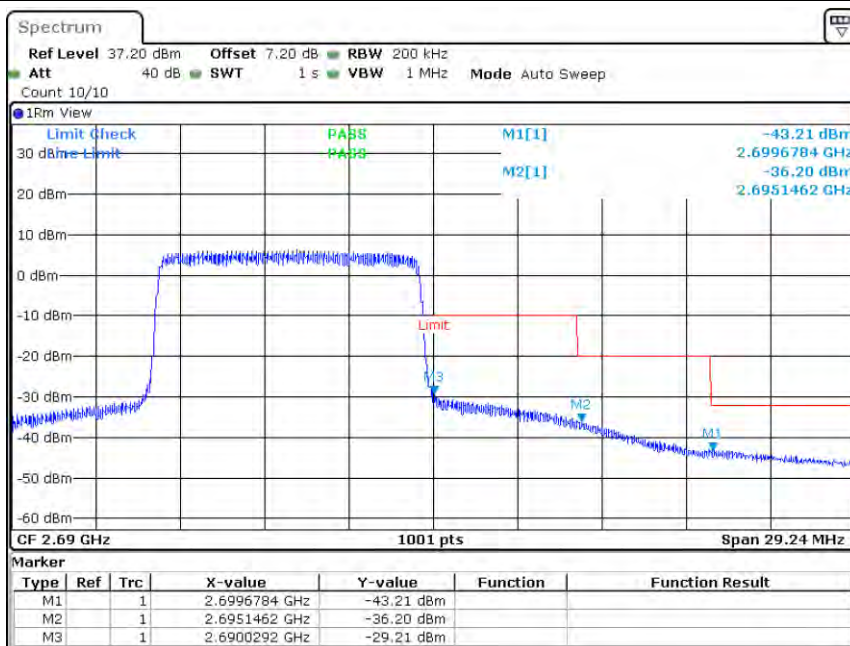
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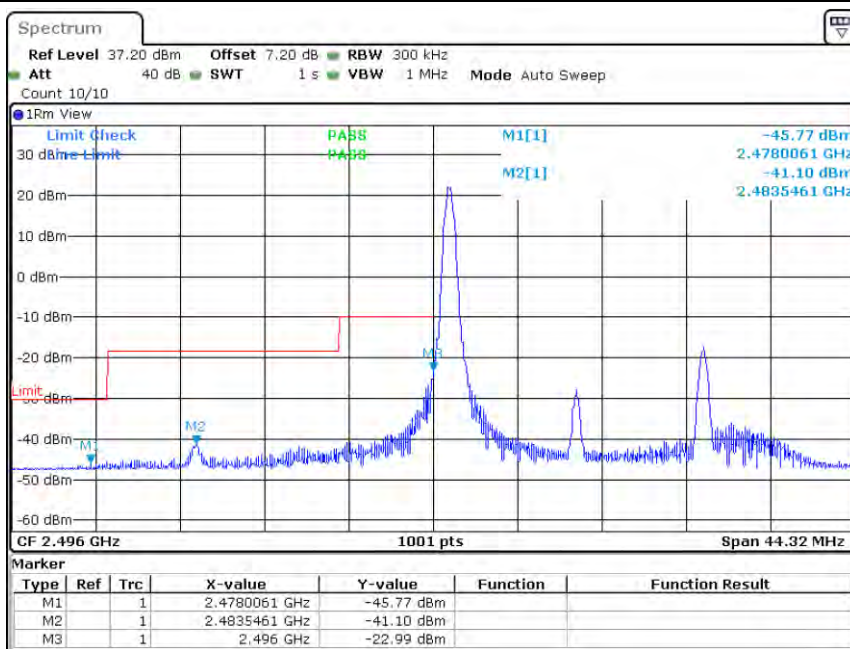


Band41-10MHz-16QAM-41540-50RB#0



Date: 23.APR.2021 07:45:00

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

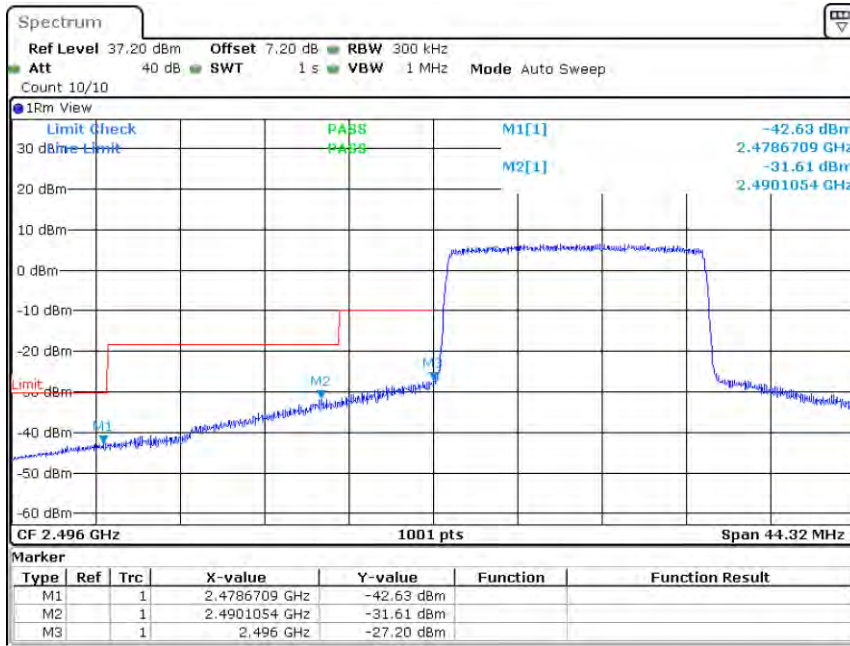


Date: 23.APR.2021 07:45:27



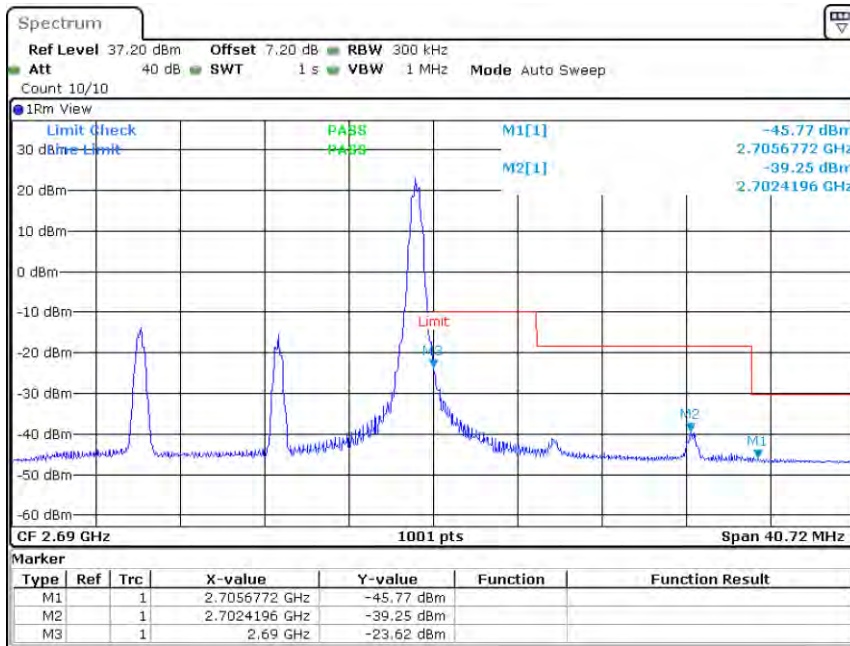
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Band41-15MHz-QPSK-39725-75RB#0



Date: 23.APR.2021 07:47:03

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



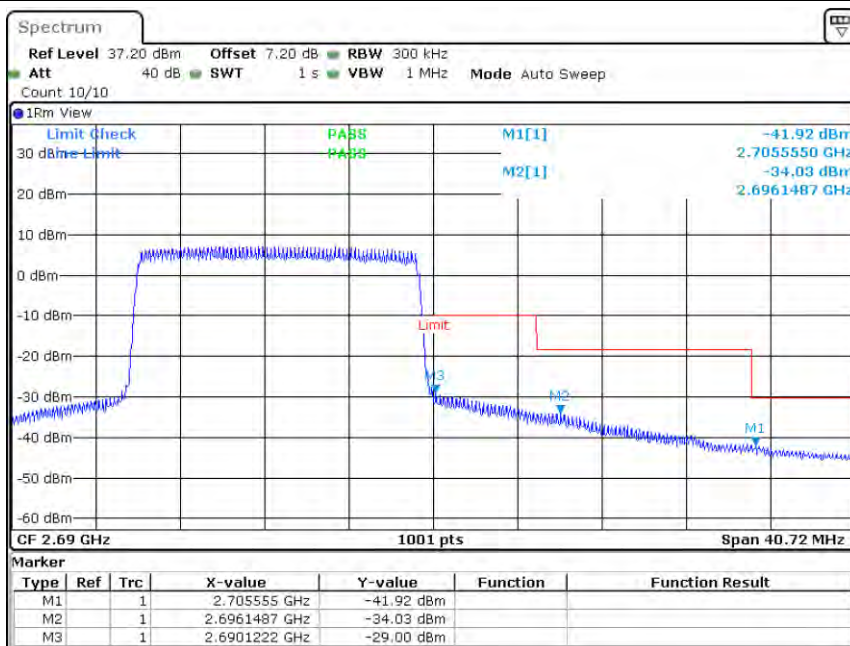
Date: 23.APR.2021 07:46:15



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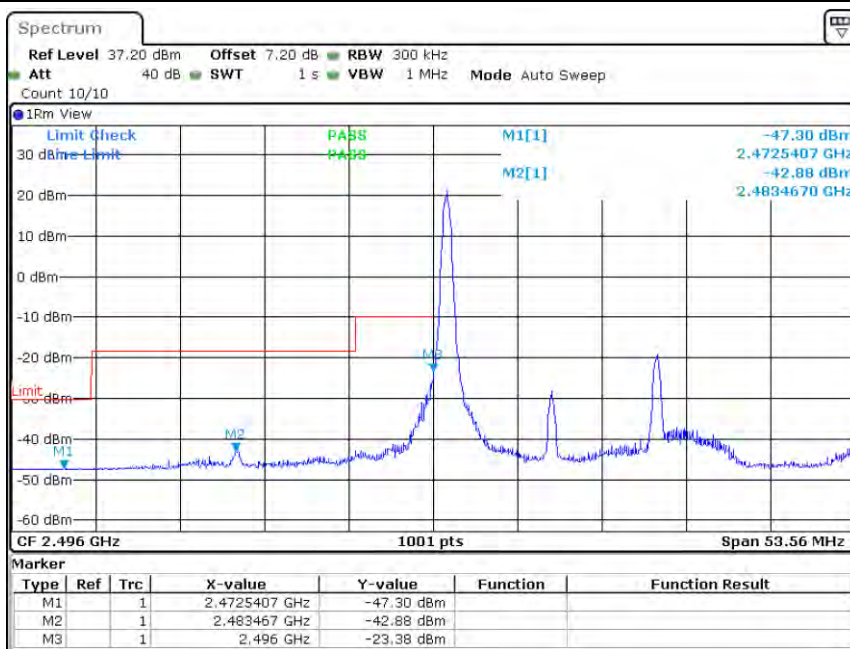


Band41-15MHz-QPSK-41515-75RB#0



Date: 23.APR.2021 07:47:48

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

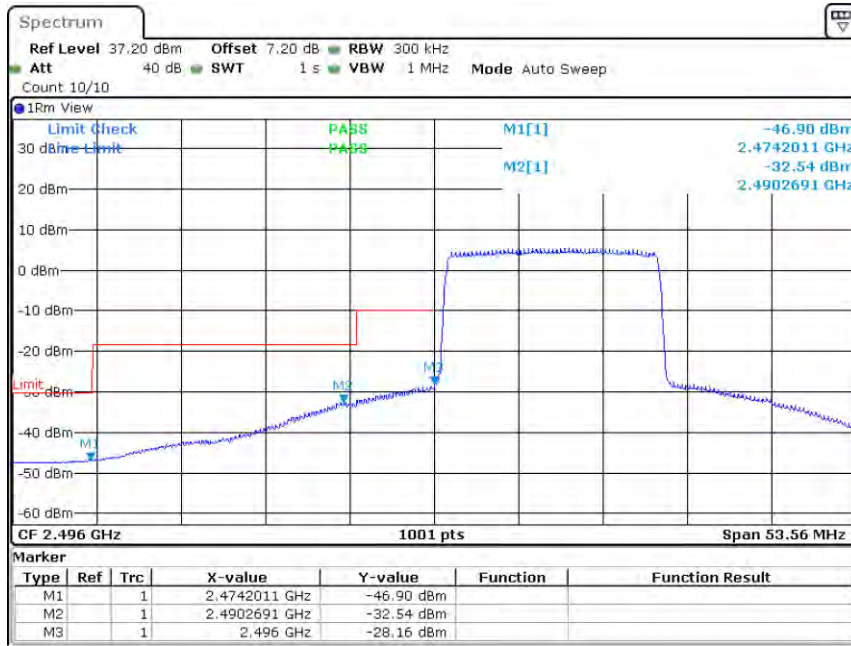


Date: 23.APR.2021 07:45:49



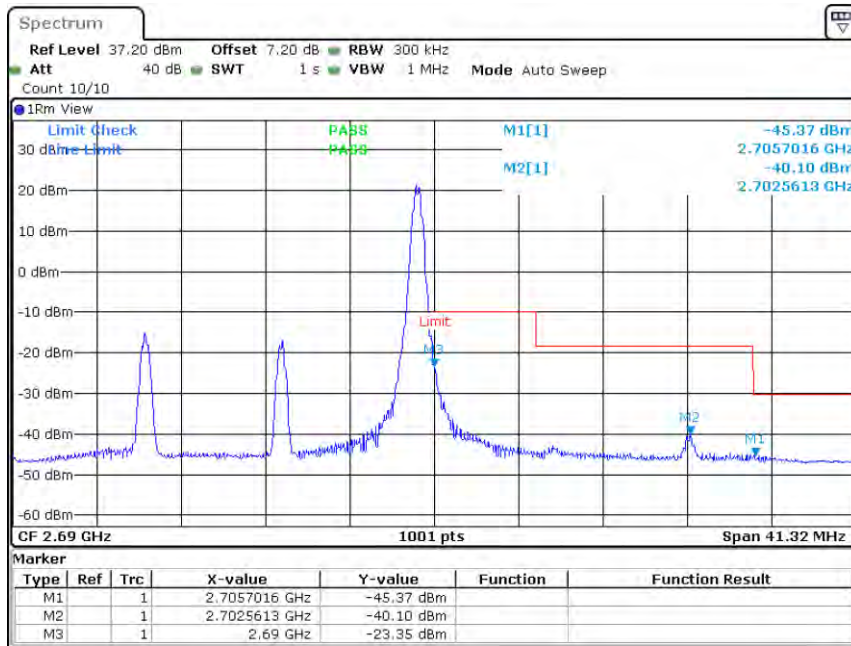
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Band41-15MHz-16QAM-39725-75RB#0



Date: 23.APR 2021 07:47:24

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



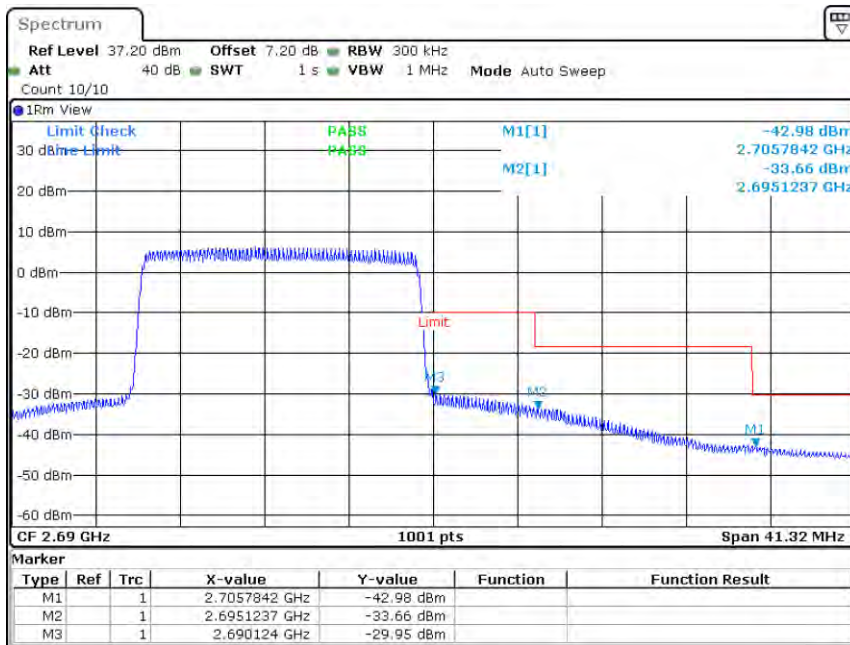
Date: 23.APR 2021 07:46:37



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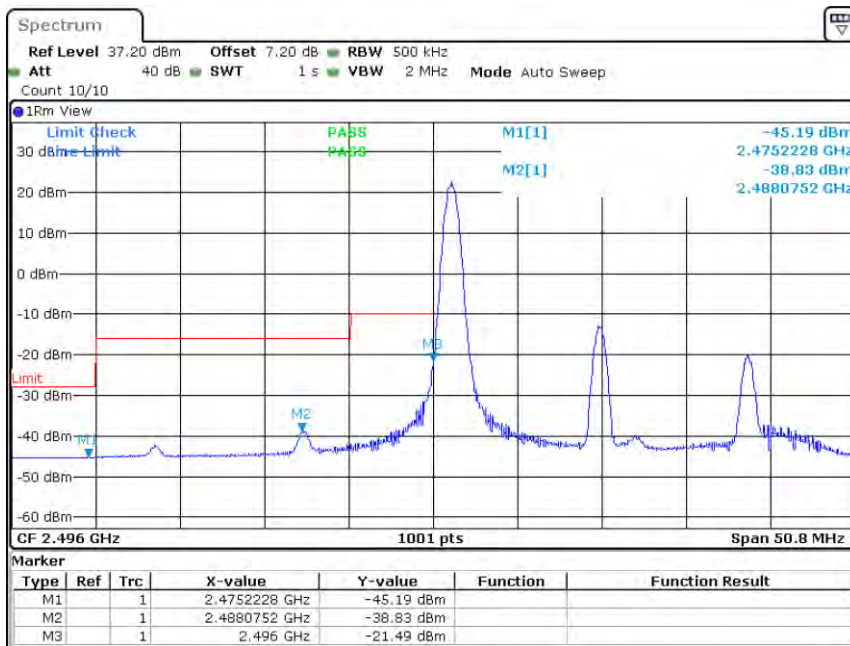


Band41-15MHz-16QAM-41515-75RB#0



Date: 23.APR 2021 07:48:10

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



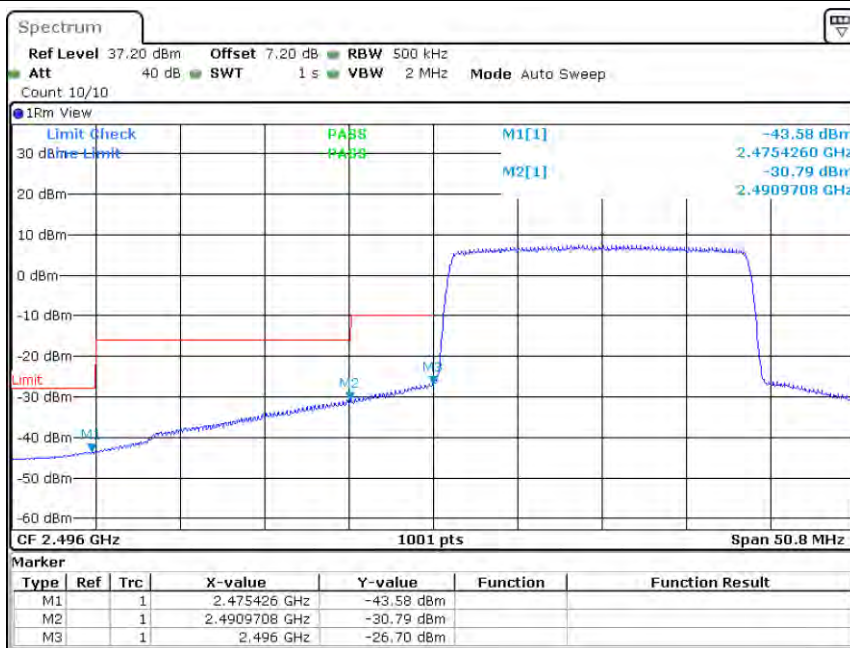
Date: 23.APR 2021 07:48:37



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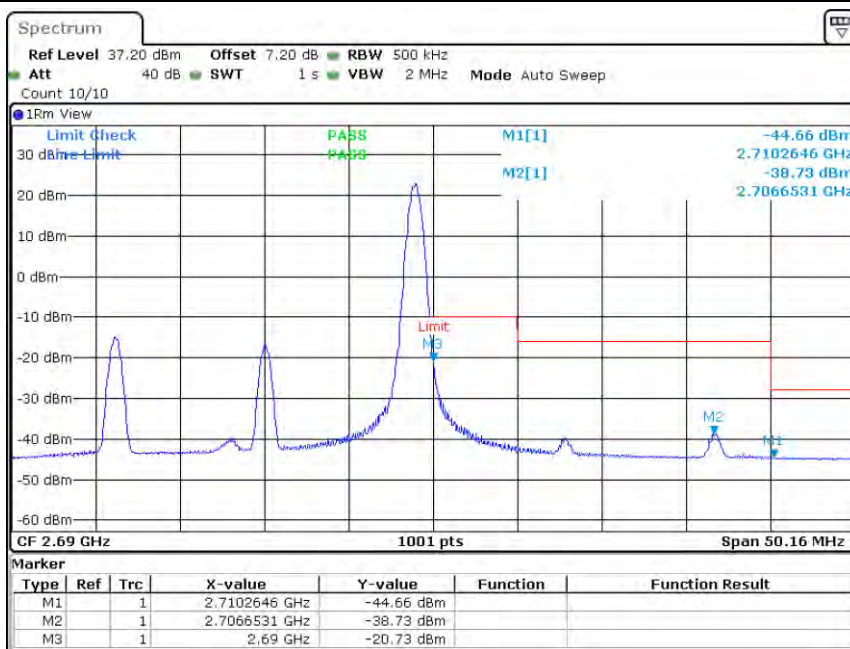


Band41-20MHz-QPSK-39750-100RB#0



Date: 23.APR.2021 07:50:15

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



Date: 23.APR.2021 07:49:28



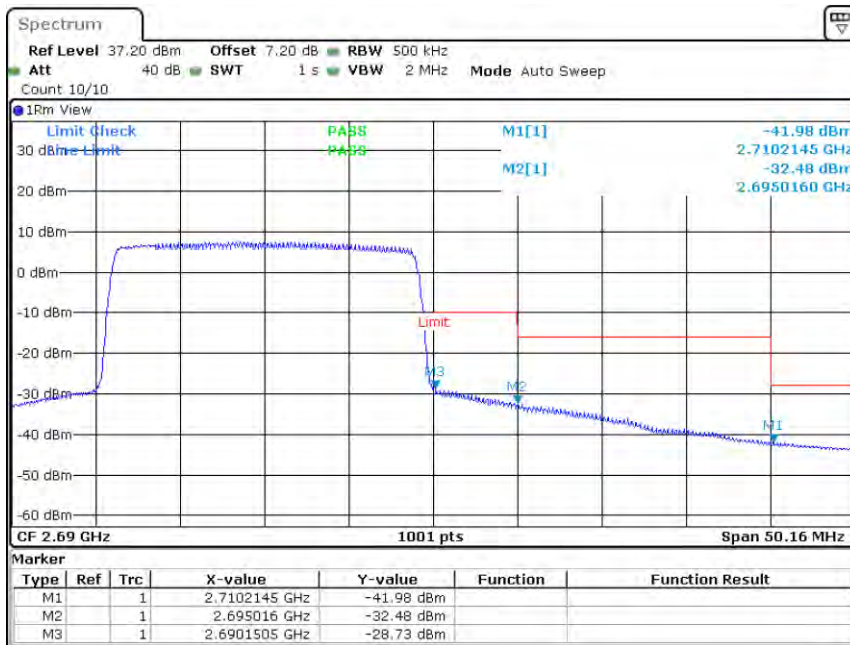
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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

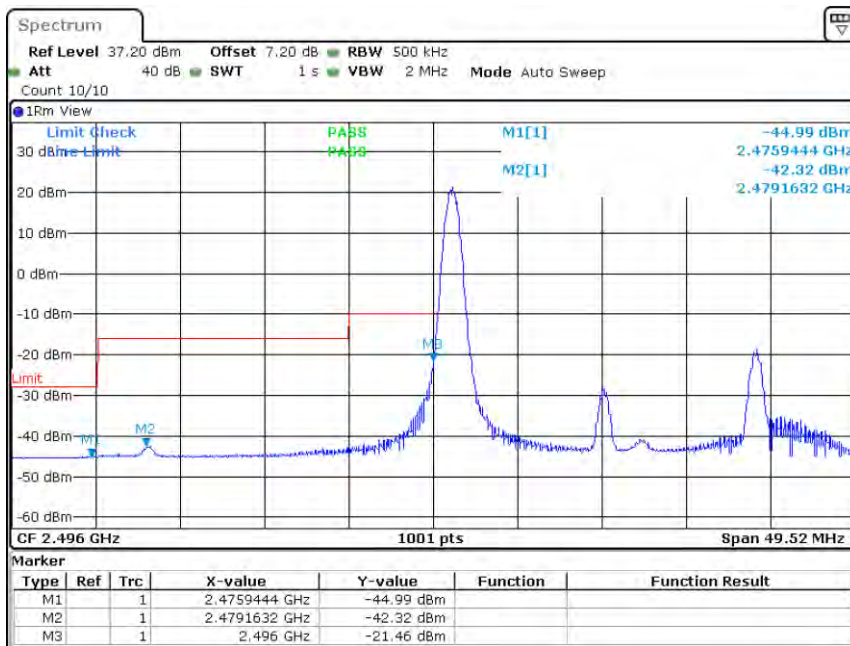


Band41-20MHz-QPSK-41490-100RB#0



Date: 23.APR.2021 07:50:59

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

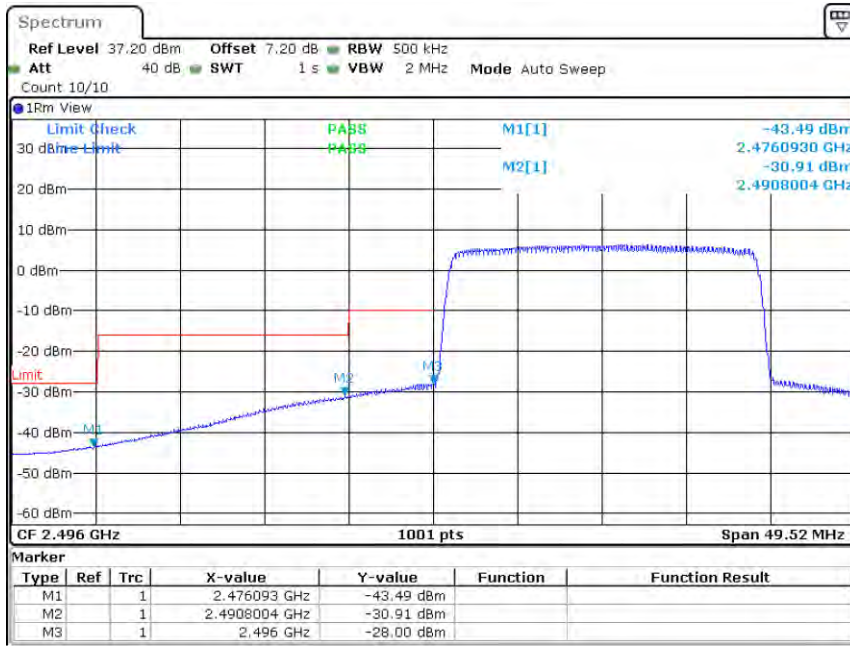


Date: 23.APR.2021 07:48:59



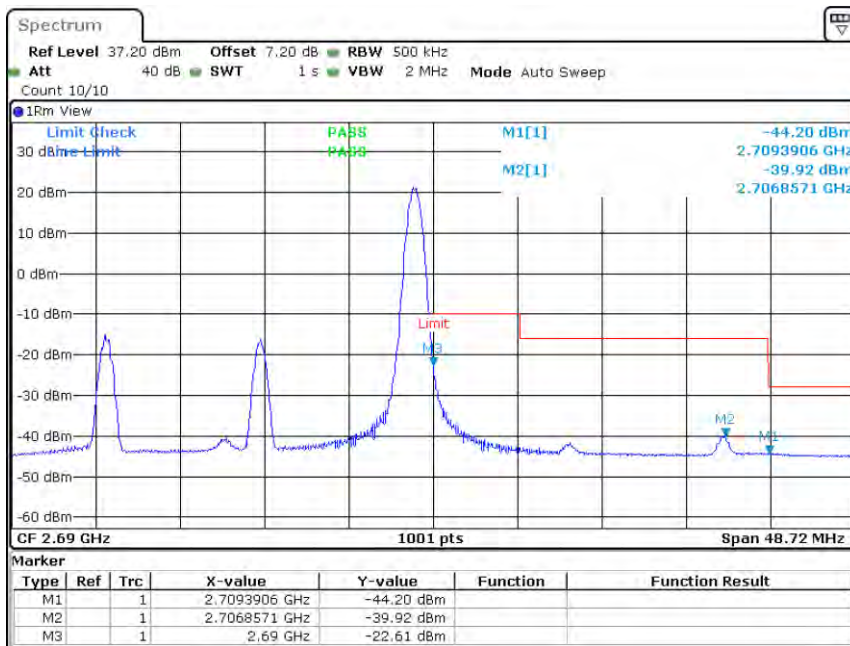
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Band41-20MHz-16QAM-39750-100RB#0



Date: 23.APR.2021 07:50:37

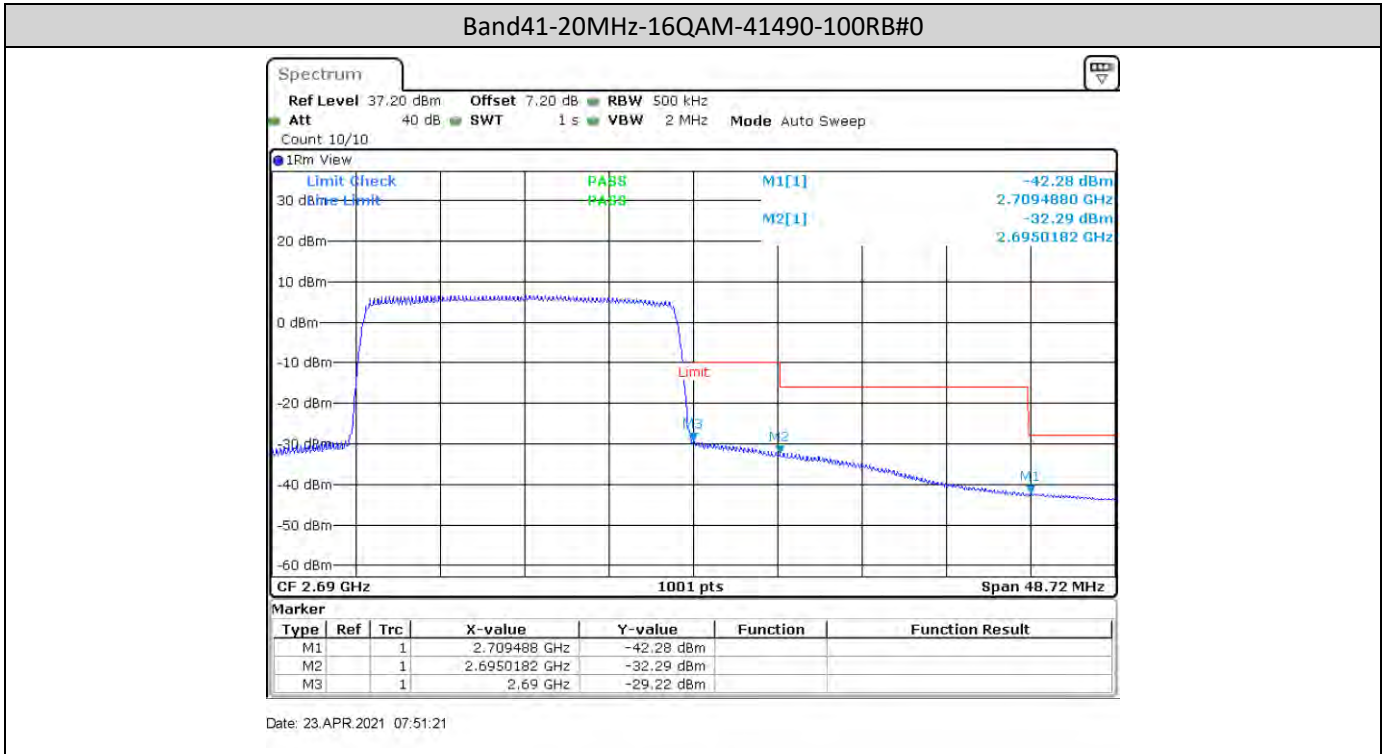
Band41-20MHz-16QAM-41490-1RB#99



Date: 23.APR.2021 07:49:49



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



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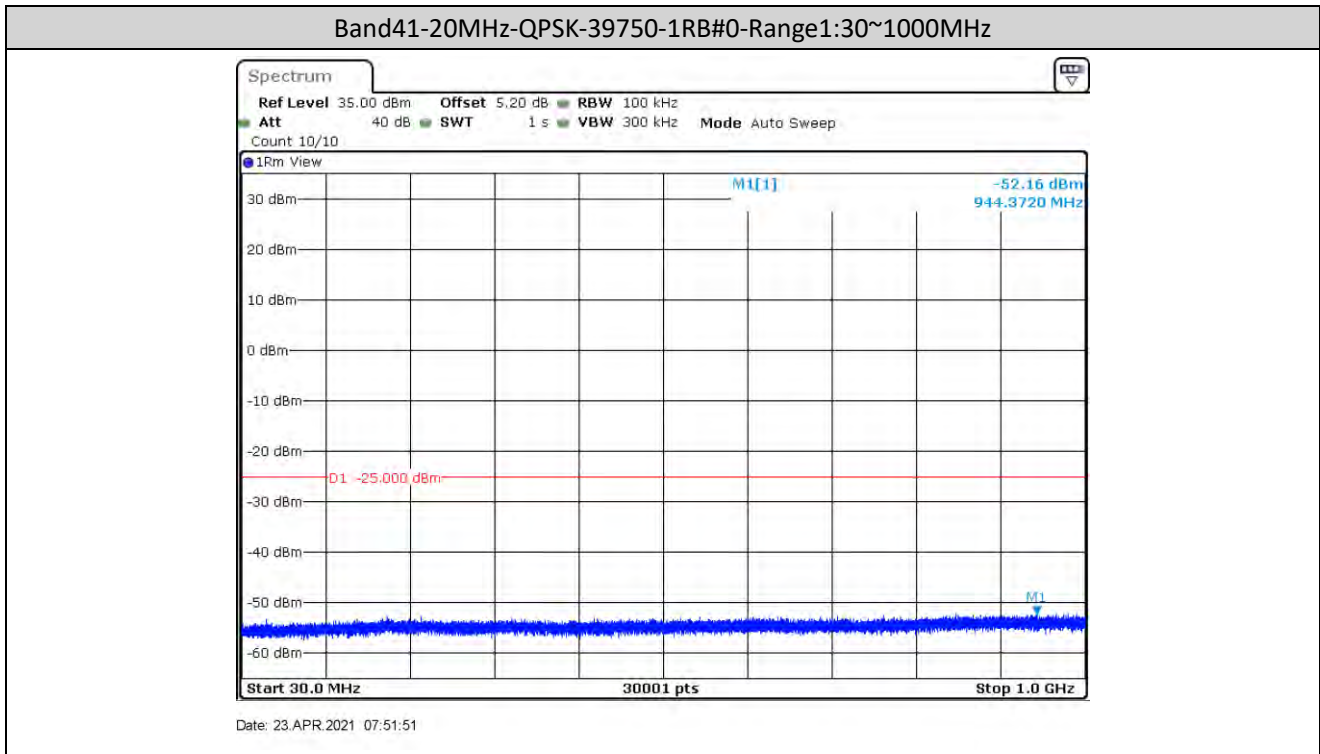
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

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

Remark3: The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

6.1. Test Plots

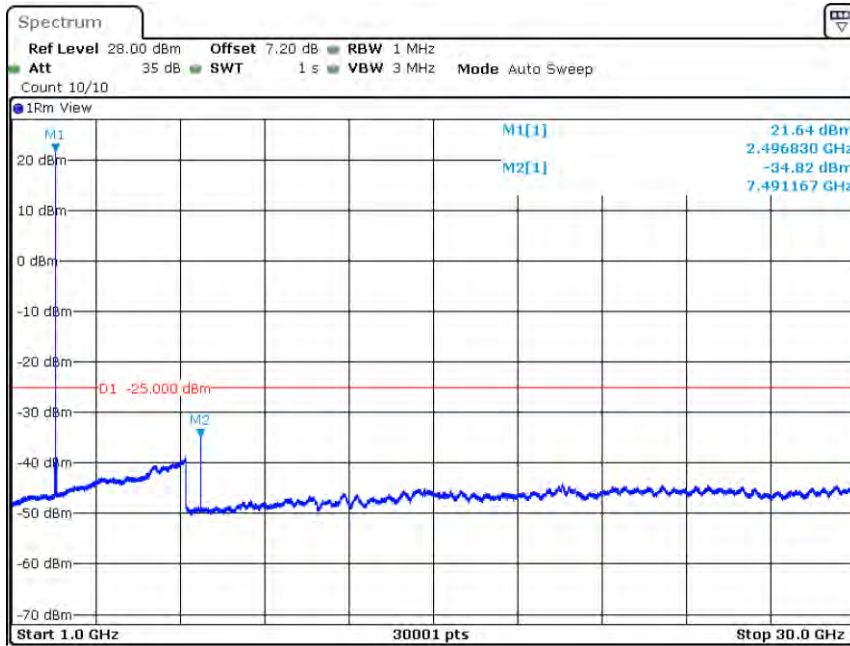


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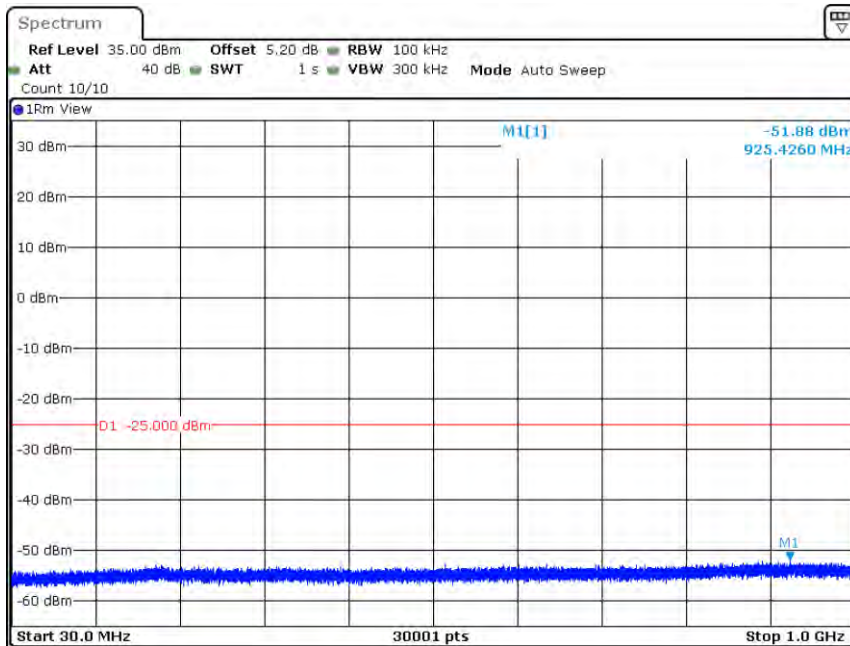


Band41-20MHz-QPSK-39750-1RB#0-Range2:1000~30000MHz



Date: 23.APR.2021 07:52:08

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



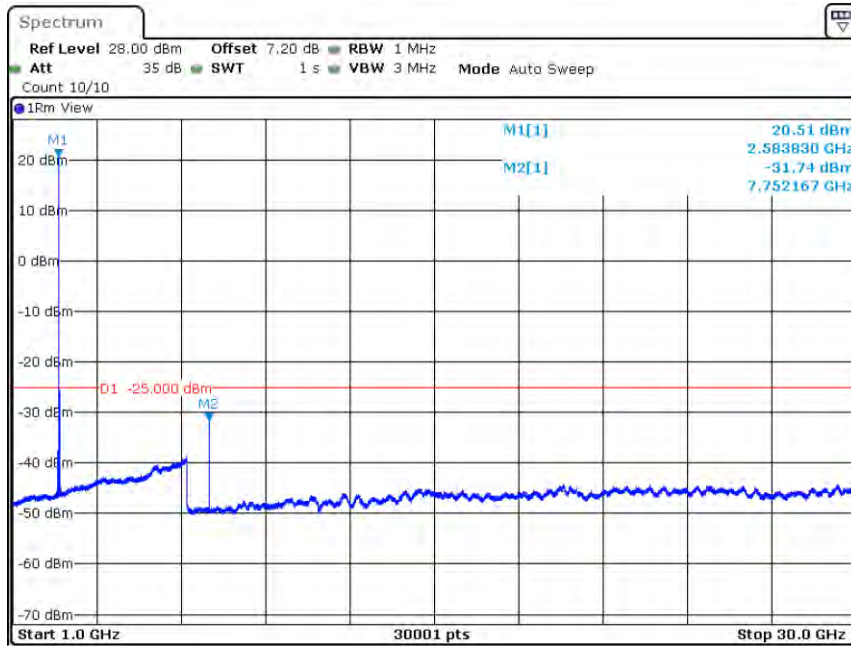
Date: 23.APR.2021 07:53:02



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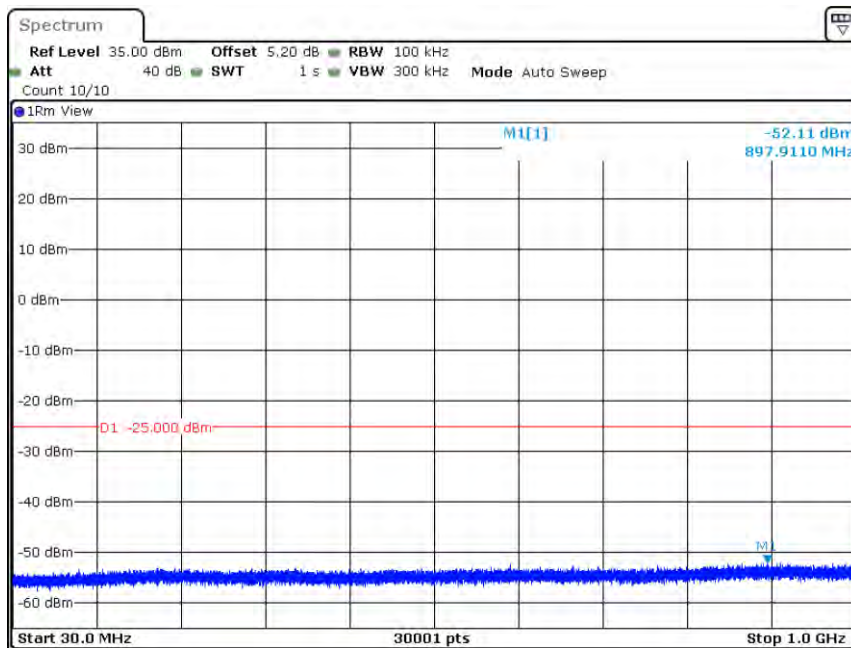


Band41-20MHz-QPSK-40620-1RB#0-Range2:1000~30000MHz



Date: 23.APR.2021 07:53:19

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



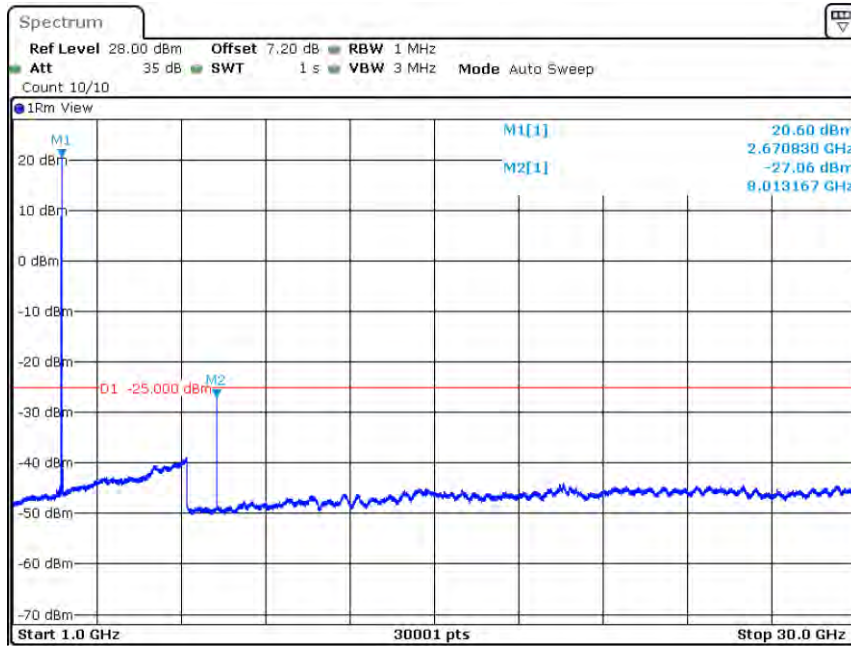
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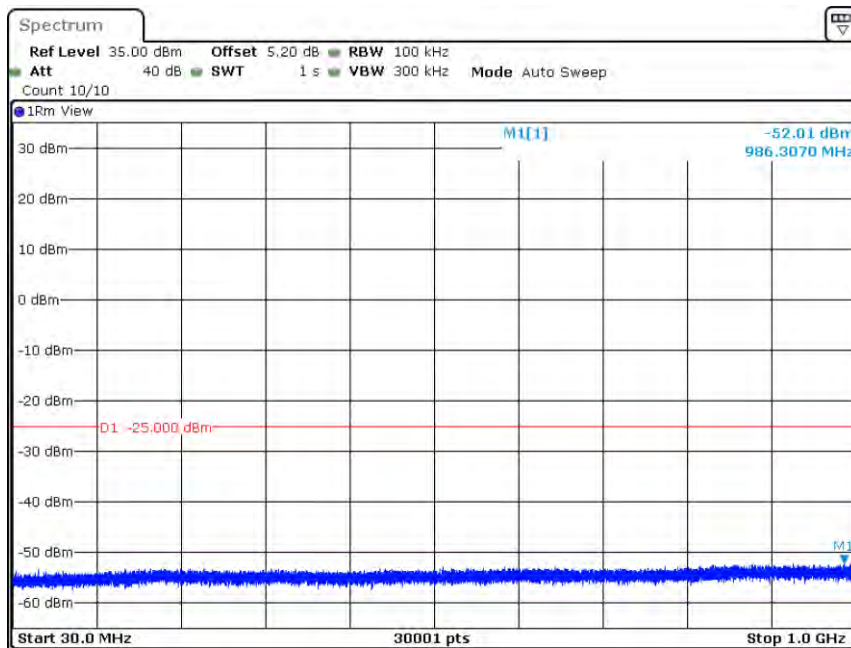
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Band41-20MHz-QPSK-41490-1RB#0-Range2:1000~30000MHz



Date: 23.APR.2021 07:57:19

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



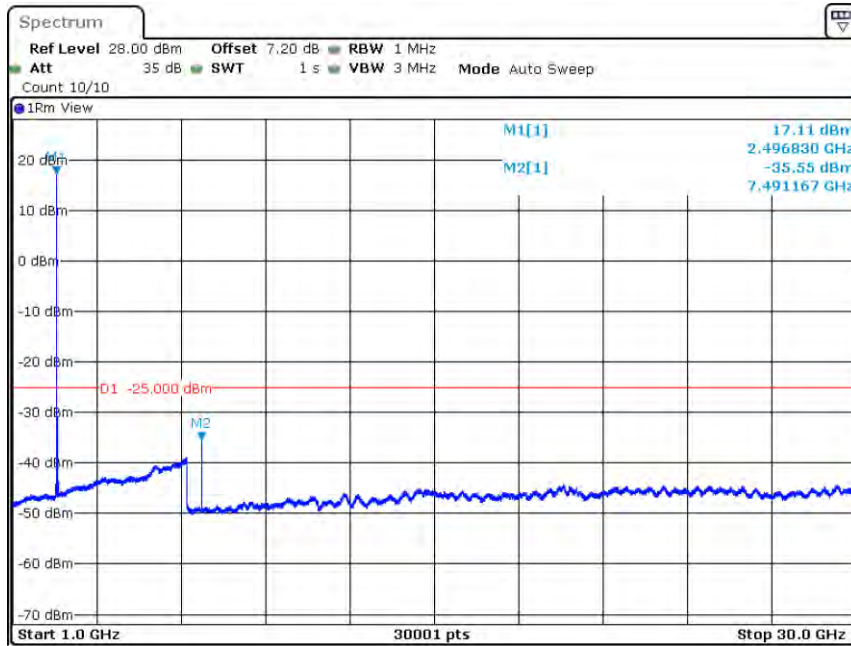
Date: 23.APR.2021 07:52:27



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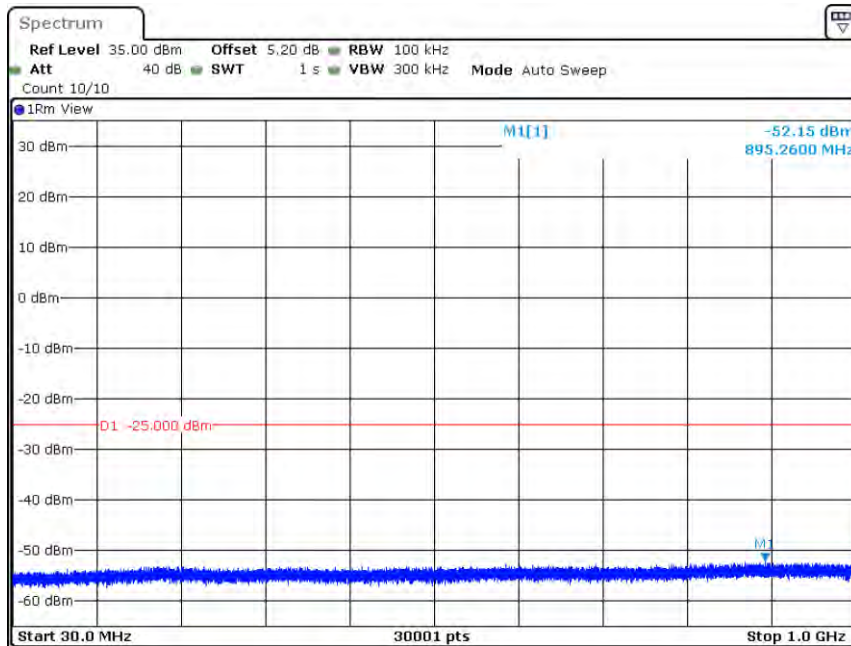
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Band41-20MHz-16QAM-39750-1RB#0-Range2:1000~30000MHz



Date: 23.APR.2021 07:52:43

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



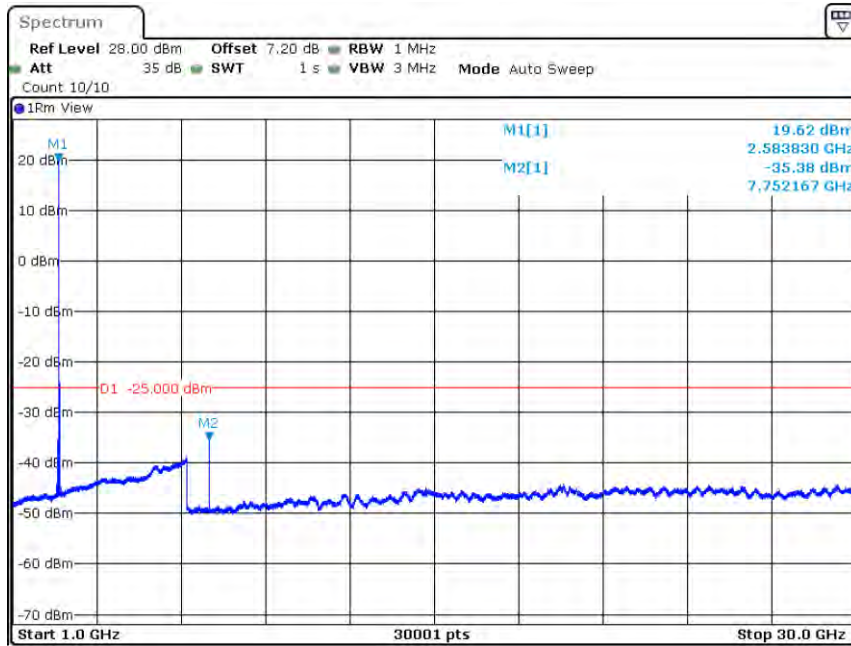
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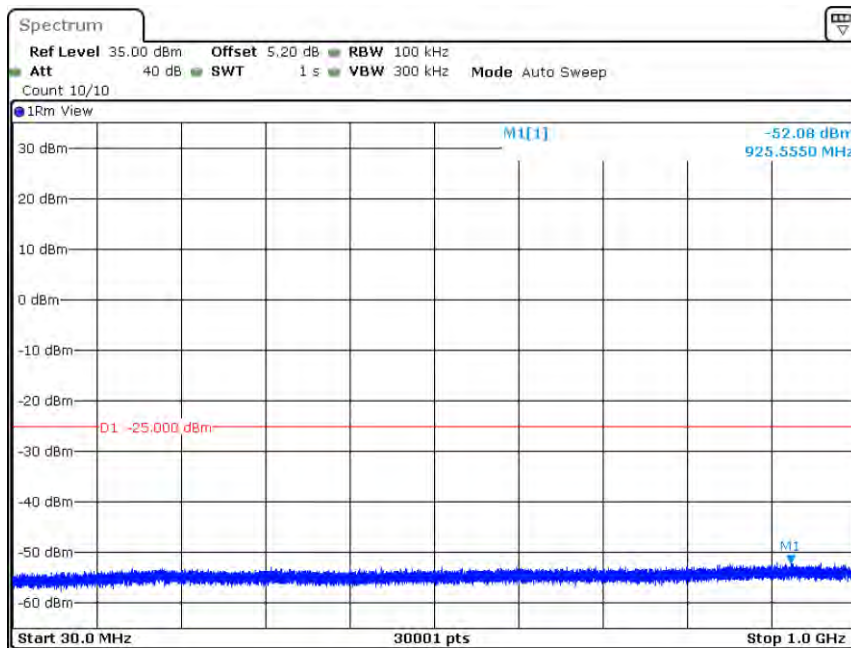
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Band41-20MHz-16QAM-40620-1RB#0-Range2:1000~30000MHz



Date: 23.APR.2021 07:53:54

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



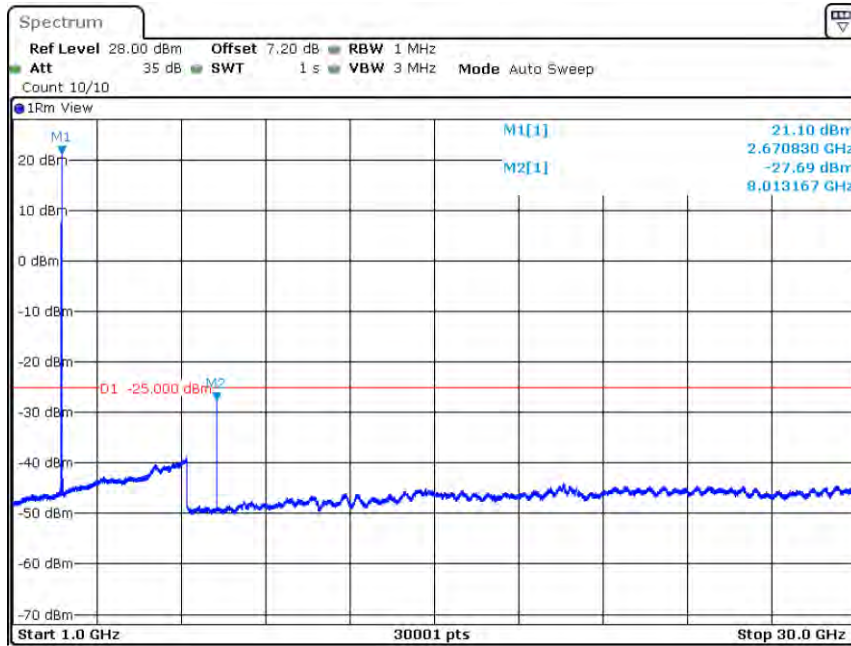
Date: 23.APR.2021 07:54:48



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Band41-20MHz-16QAM-41490-1RB#0-Range2:1000~30000MHz



Date: 23.APR.2021 07:55:05



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7. Field Strength of Spurious Radiation

ANT1:

7.1. Test Band = LTE_Band=41 BW=20MHz_TM1

7.1.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.6891	-87.64	-55.28	-25.00	30.28	Horizontal
2	229.2480	-88.51	-60.18	-25.00	35.18	Horizontal
3	4994.0665	-44.50	-45.96	-25.00	20.96	Horizontal
4	7491.1497	-41.80	-39.92	-25.00	14.92	Horizontal
5	9988.7330	-53.40	-46.60	-25.00	21.60	Horizontal
6	12485.316	-57.36	-47.11	-25.00	22.11	Horizontal

7.2. Test Band = LTE_Band=41 BW=20MHz_TM1

7.2.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	110.7565	-89.31	-57.44	-25.00	32.44	Vertical
2	620.1290	-84.76	-53.33	-25.00	28.33	Vertical
3	4994.0665	-44.48	-45.89	-25.00	20.89	Vertical
4	7491.1497	-42.65	-40.64	-25.00	15.64	Vertical
5	9988.2329	-47.70	-40.87	-25.00	15.87	Vertical
6	12485.316	-51.68	-42.46	-25.00	17.46	Vertical



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7.3. Test Band = LTE_Band=41 BW=20MHz_TM1

7.3.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.1927	-89.34	-56.94	-25.00	31.94	Horizontal
2	237.9784	-87.47	-59.08	-25.00	34.08	Horizontal
3	551.8376	-84.11	-53.38	-25.00	28.38	Horizontal
4	5168.0723	-43.38	-44.28	-25.00	19.28	Horizontal
5	7752.1584	-33.97	-33.06	-25.00	8.06	Horizontal
6	10336.244	-50.03	-42.83	-25.00	17.83	Horizontal

7.4. Test Band = LTE_Band=41 BW=20MHz_TM1

7.4.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	110.0290	-89.41	-57.47	-25.00	32.47	Vertical
2	458.3249	-85.97	-57.35	-25.00	32.35	Vertical
3	5168.0723	-43.47	-44.73	-25.00	19.73	Vertical
4	7752.1584	-39.70	-38.36	-25.00	13.36	Vertical
5	10336.244	-43.77	-36.10	-25.00	11.10	Vertical
6	17986.499	-58.01	-38.54	-25.00	13.54	Vertical



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7.5. Test Band = LTE_Band=41 BW=20MHz_TM1

7.5.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.7190	-65.81	-69.82	-25.00	44.82	Horizontal
2	157.2219	-58.17	-74.87	-25.00	49.87	Horizontal
3	1003.8002	-78.62	-59.78	-25.00	34.78	Horizontal
4	5342.0781	-36.99	-36.01	-25.00	11.01	Horizontal
5	8013.1671	-31.49	-29.26	-25.00	4.26	Horizontal
6	10684.756	-47.04	-40.14	-25.00	15.14	Horizontal

7.6. Test Band = LTE_Band=41 BW=20MHz_TM1

7.6.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	73.3127	-59.34	-68.96	-25.00	43.96	Vertical
2	209.0710	-58.56	-72.24	-25.00	47.24	Vertical
3	1012.9006	-78.25	-59.50	-25.00	34.50	Vertical
4	5342.0781	-34.58	-34.08	-25.00	9.08	Vertical
5	8013.1671	-37.63	-34.72	-25.00	9.72	Vertical
6	10684.256	-40.52	-32.53	-25.00	7.53	Vertical



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ANT2:

7.7. Test Band = LTE_Band=41 BW=20MHz_TM1

7.7.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.3011	-70.53	-54.74	-25.00	29.74	Horizontal
2	243.3622	-74.83	-63.18	-25.00	38.18	Horizontal
3	1028.4057	-71.60	-46.25	-25.00	21.25	Horizontal
4	5315.3658	-58.17	-56.79	-25.00	31.79	Horizontal
5	7518.2259	-45.53	-43.97	-25.00	18.97	Horizontal
6	12848.742	-61.82	-50.25	-25.00	25.25	Horizontal

7.8. Test Band = LTE_Band=41 BW=20MHz_TM1

7.8.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.5507	-72.45	-66.11	-25.00	41.11	Vertical
2	109.1075	-75.85	-60.72	-25.00	35.72	Vertical
3	1196.8394	-72.14	-44.46	-25.00	19.46	Vertical
4	5329.6165	-57.50	-56.83	-25.00	31.83	Vertical
5	7517.4759	-53.18	-51.50	-25.00	26.50	Vertical
6	11924.6962	-60.89	-50.91	-25.00	25.91	Vertical



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7.9. Test Band = LTE_Band=41 BW=20MHz_TM1

7.9.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.1556	-69.82	-54.04	-25.00	29.04	Horizontal
2	244.5262	-74.99	-63.37	-25.00	38.37	Horizontal
3	713.2052	-74.95	-57.51	-25.00	32.51	Horizontal
4	5184.8592	-55.31	-56.10	-25.00	31.10	Horizontal
5	7778.4889	-40.51	-39.54	-25.00	14.54	Horizontal
6	16403.920	-59.80	-44.06	-25.00	19.06	Horizontal

7.10. Test Band = LTE_Band=41 BW=20MHz_TM1

7.10.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.3567	-72.61	-66.44	-25.00	41.44	Vertical
2	110.1260	-75.99	-60.69	-25.00	35.69	Vertical
3	1169.2338	-72.19	-44.69	-25.00	19.69	Vertical
4	5184.8592	-53.80	-54.93	-25.00	29.93	Vertical
5	7778.4889	-49.24	-47.84	-25.00	22.84	Vertical
6	10372.1186	-57.30	-49.12	-25.00	24.12	Vertical



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7.11. Test Band = LTE_Band=41 BW=20MHz_TM1

7.11.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.5436	-70.06	-54.25	-25.00	29.25	Horizontal
2	228.1324	-75.33	-64.10	-25.00	39.10	Horizontal
3	1118.8238	-72.06	-45.18	-25.00	20.18	Horizontal
4	5360.3680	-52.33	-51.70	-25.00	26.70	Horizontal
5	8037.2519	-35.35	-33.02	-25.00	8.02	Horizontal
6	10720.136	-55.21	-48.27	-25.00	23.27	Horizontal

7.12. Test Band = LTE_Band=41 BW=20MHz_TM1

7.12.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	71.2756	-74.19	-63.53	-25.00	38.53	Vertical
2	115.2188	-76.12	-61.23	-25.00	36.23	Vertical
3	1059.6119	-71.89	-45.78	-25.00	20.78	Vertical
4	5357.3679	-51.92	-51.68	-25.00	26.68	Vertical
5	8042.5021	-42.56	-39.55	-25.00	14.55	Vertical
6	10720.136	-54.83	-46.78	-25.00	21.78	Vertical

Remark:

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



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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	-1.60	-0.000638	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VN	NT	4.50	0.001796	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VH	NT	1.30	0.000519	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-1.90	-0.000733	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	3.90	0.001504	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	4.60	0.001774	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VL	NT	-0.80	-0.000299	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VN	NT	1.30	0.000485	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VH	NT	4.90	0.001828	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VL	NT	2.00	0.000798	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VN	NT	5.90	0.002354	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VH	NT	5.70	0.002275	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VL	NT	3.50	0.001350	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VN	NT	-1.00	-0.000386	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VH	NT	-0.20	-0.000077	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VL	NT	4.40	0.001642	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VN	NT	3.00	0.001119	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VH	NT	3.40	0.001269	±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	4.10	0.001636	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-20	4.70	0.001875	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-10	3.70	0.001476	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	0	-1.60	-0.000638	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	10	6.10	0.002434	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	20	4.50	0.001796	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	30	-1.70	-0.000678	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	40	5.30	0.002115	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	50	-0.10	-0.000040	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	1.80	0.000694	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	0.20	0.000077	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	1.70	0.000656	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	4.30	0.001658	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	5.00	0.001928	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	4.00	0.001543	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-0.20	-0.000077	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	4.90	0.001890	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	3.10	0.001196	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-30	-2.20	-0.000821	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-20	3.20	0.001194	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-10	4.10	0.001530	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	0	-0.90	-0.000336	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	10	1.00	0.000373	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	20	-0.60	-0.000224	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	30	-2.50	-0.000933	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	40	1.60	0.000597	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	50	-1.40	-0.000522	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-30	4.00	0.001596	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-20	1.90	0.000758	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-10	4.10	0.001636	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	0	4.70	0.001875	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	10	5.40	0.002155	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	20	-0.10	-0.000040	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	30	3.90	0.001556	±2.5	PASS



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Band41	20MHz	16QAM	39750	100RB#0	NV	40	-0.30	-0.000120	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	50	4.80	0.001915	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-30	4.20	0.001620	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-20	0.70	0.000270	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-10	0.40	0.000154	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	0	-1.00	-0.000386	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	10	-1.50	-0.000578	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	20	5.20	0.002005	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	30	4.50	0.001735	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	40	2.50	0.000964	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	50	3.70	0.001427	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-30	-1.10	-0.000410	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-20	4.50	0.001679	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-10	-0.50	-0.000187	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	0	5.60	0.002090	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	10	-1.50	-0.000560	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	20	-1.60	-0.000597	±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	-1.10	-0.000410	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	50	-1.20	-0.000448	±2.5	PASS



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