



Appendix B

E-UTRA Band 38



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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
Band38	5MHz	QPSK	37775	1RB#0	24.16	27.38	30.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	24.30	27.52	30.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	24.60	27.82	30.00	PASS
Band38	5MHz	QPSK	37775	12RB#0	23.32	26.54	30.00	PASS
Band38	5MHz	QPSK	37775	12RB#6	23.21	26.43	30.00	PASS
Band38	5MHz	QPSK	37775	12RB#13	23.24	26.46	30.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	23.24	26.46	30.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	24.07	27.29	30.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	24.41	27.63	30.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	24.25	27.47	30.00	PASS
Band38	5MHz	QPSK	38000	12RB#0	23.24	26.46	30.00	PASS
Band38	5MHz	QPSK	38000	12RB#6	23.21	26.43	30.00	PASS
Band38	5MHz	QPSK	38000	12RB#13	23.22	26.44	30.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	23.15	26.37	30.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	24.09	27.31	30.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	24.29	27.51	30.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	24.61	27.83	30.00	PASS
Band38	5MHz	QPSK	38225	12RB#0	23.23	26.45	30.00	PASS
Band38	5MHz	QPSK	38225	12RB#6	23.28	26.5	30.00	PASS
Band38	5MHz	QPSK	38225	12RB#13	23.25	26.47	30.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	23.27	26.49	30.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.72	25.94	30.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.82	26.04	30.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.60	25.82	30.00	PASS
Band38	5MHz	16QAM	37775	12RB#6	22.22	25.44	30.00	PASS
Band38	5MHz	16QAM	37775	12RB#0	22.17	25.39	30.00	PASS



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Band38	5MHz	16QAM	37775	12RB#13	22.21	25.43	30.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	22.36	25.58	30.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.68	25.9	30.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.91	26.13	30.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.62	25.84	30.00	PASS
Band38	5MHz	16QAM	38000	12RB#13	22.13	25.35	30.00	PASS
Band38	5MHz	16QAM	38000	12RB#0	22.14	25.36	30.00	PASS
Band38	5MHz	16QAM	38000	12RB#6	22.15	25.37	30.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	22.23	25.45	30.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	23.04	26.26	30.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.70	25.92	30.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.71	25.93	30.00	PASS
Band38	5MHz	16QAM	38225	12RB#0	22.26	25.48	30.00	PASS
Band38	5MHz	16QAM	38225	12RB#6	22.05	25.27	30.00	PASS
Band38	5MHz	16QAM	38225	12RB#13	22.20	25.42	30.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	22.27	25.49	30.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	24.03	27.25	30.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	24.22	27.44	30.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	24.62	27.84	30.00	PASS
Band38	10MHz	QPSK	37800	25RB#0	23.03	26.25	30.00	PASS
Band38	10MHz	QPSK	37800	25RB#12	23.34	26.56	30.00	PASS
Band38	10MHz	QPSK	37800	25RB#25	23.24	26.46	30.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	23.18	26.4	30.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	24.02	27.24	30.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	24.25	27.47	30.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	24.52	27.74	30.00	PASS
Band38	10MHz	QPSK	38000	25RB#25	23.24	26.46	30.00	PASS
Band38	10MHz	QPSK	38000	25RB#0	23.25	26.47	30.00	PASS
Band38	10MHz	QPSK	38000	25RB#12	23.16	26.38	30.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	23.20	26.42	30.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	24.12	27.34	30.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	24.55	27.77	30.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	24.23	27.45	30.00	PASS



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Band38	10MHz	QPSK	38200	25RB#0	23.34	26.56	30.00	PASS
Band38	10MHz	QPSK	38200	25RB#25	23.21	26.43	30.00	PASS
Band38	10MHz	QPSK	38200	25RB#12	23.34	26.56	30.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	23.36	26.58	30.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.75	25.97	30.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.91	26.13	30.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.87	26.09	30.00	PASS
Band38	10MHz	16QAM	37800	25RB#25	22.32	25.54	30.00	PASS
Band38	10MHz	16QAM	37800	25RB#12	22.22	25.44	30.00	PASS
Band38	10MHz	16QAM	37800	25RB#0	22.18	25.4	30.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	22.14	25.36	30.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.61	25.83	30.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.86	26.08	30.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.90	26.12	30.00	PASS
Band38	10MHz	16QAM	38000	25RB#25	22.24	25.46	30.00	PASS
Band38	10MHz	16QAM	38000	25RB#0	22.25	25.47	30.00	PASS
Band38	10MHz	16QAM	38000	25RB#12	22.31	25.53	30.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	22.28	25.5	30.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.67	25.89	30.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.75	25.97	30.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	22.91	26.13	30.00	PASS
Band38	10MHz	16QAM	38200	25RB#0	22.32	25.54	30.00	PASS
Band38	10MHz	16QAM	38200	25RB#12	22.28	25.5	30.00	PASS
Band38	10MHz	16QAM	38200	25RB#25	22.30	25.52	30.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	22.25	25.47	30.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	24.04	27.26	30.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	24.36	27.58	30.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	24.02	27.24	30.00	PASS
Band38	15MHz	QPSK	37825	36RB#0	23.25	26.47	30.00	PASS
Band38	15MHz	QPSK	37825	36RB#18	23.04	26.26	30.00	PASS
Band38	15MHz	QPSK	37825	36RB#39	23.23	26.45	30.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	23.19	26.41	30.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	24.02	27.24	30.00	PASS



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Band38	15MHz	QPSK	38000	1RB#74	24.38	27.6	30.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	24.11	27.33	30.00	PASS
Band38	15MHz	QPSK	38000	36RB#0	23.27	26.49	30.00	PASS
Band38	15MHz	QPSK	38000	36RB#18	23.18	26.4	30.00	PASS
Band38	15MHz	QPSK	38000	36RB#39	23.22	26.44	30.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	23.27	26.49	30.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	24.30	27.52	30.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	24.20	27.42	30.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	24.14	27.36	30.00	PASS
Band38	15MHz	QPSK	38175	36RB#0	23.38	26.6	30.00	PASS
Band38	15MHz	QPSK	38175	36RB#18	23.33	26.55	30.00	PASS
Band38	15MHz	QPSK	38175	36RB#39	23.27	26.49	30.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	23.37	26.59	30.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.74	25.96	30.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.88	26.1	30.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.54	25.76	30.00	PASS
Band38	15MHz	16QAM	37825	36RB#18	22.24	25.46	30.00	PASS
Band38	15MHz	16QAM	37825	36RB#0	22.09	25.31	30.00	PASS
Band38	15MHz	16QAM	37825	36RB#39	22.25	25.47	30.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	22.13	25.35	30.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.52	25.74	30.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.60	25.82	30.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.63	25.85	30.00	PASS
Band38	15MHz	16QAM	38000	36RB#39	22.14	25.36	30.00	PASS
Band38	15MHz	16QAM	38000	36RB#0	22.26	25.48	30.00	PASS
Band38	15MHz	16QAM	38000	36RB#18	22.17	25.39	30.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	22.33	25.55	30.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.69	25.91	30.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.66	25.88	30.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.72	25.94	30.00	PASS
Band38	15MHz	16QAM	38175	36RB#0	22.26	25.48	30.00	PASS
Band38	15MHz	16QAM	38175	36RB#18	22.20	25.42	30.00	PASS
Band38	15MHz	16QAM	38175	36RB#39	22.25	25.47	30.00	PASS



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Band38	15MHz	16QAM	38175	75RB#0	22.24	25.46	30.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	24.12	27.34	30.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	24.54	27.76	30.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.95	27.17	30.00	PASS
Band38	20MHz	QPSK	37850	50RB#0	23.25	26.47	30.00	PASS
Band38	20MHz	QPSK	37850	50RB#25	23.11	26.33	30.00	PASS
Band38	20MHz	QPSK	37850	50RB#50	23.24	26.46	30.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	23.14	26.36	30.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	24.04	27.26	30.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.86	27.08	30.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	24.58	27.8	30.00	PASS
Band38	20MHz	QPSK	38000	50RB#50	23.25	26.47	30.00	PASS
Band38	20MHz	QPSK	38000	50RB#0	23.16	26.38	30.00	PASS
Band38	20MHz	QPSK	38000	50RB#25	23.26	26.48	30.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	23.26	26.48	30.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	24.56	27.78	30.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.94	27.16	30.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	24.03	27.25	30.00	PASS
Band38	20MHz	QPSK	38150	50RB#0	23.31	26.53	30.00	PASS
Band38	20MHz	QPSK	38150	50RB#50	23.21	26.43	30.00	PASS
Band38	20MHz	QPSK	38150	50RB#25	23.31	26.53	30.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	23.22	26.44	30.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.62	25.84	30.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.89	26.11	30.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.53	25.75	30.00	PASS
Band38	20MHz	16QAM	37850	50RB#50	22.11	25.33	30.00	PASS
Band38	20MHz	16QAM	37850	50RB#25	22.15	25.37	30.00	PASS
Band38	20MHz	16QAM	37850	50RB#0	22.10	25.32	30.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	22.14	25.36	30.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.63	25.85	30.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	23.00	26.22	30.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.72	25.94	30.00	PASS
Band38	20MHz	16QAM	38000	50RB#50	22.28	25.5	30.00	PASS



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Band38	20MHz	16QAM	38000	50RB#0	22.16	25.38	30.00	PASS
Band38	20MHz	16QAM	38000	50RB#25	22.22	25.44	30.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	22.27	25.49	30.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.97	26.19	30.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.60	25.82	30.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.53	25.75	30.00	PASS
Band38	20MHz	16QAM	38150	50RB#0	22.18	25.4	30.00	PASS
Band38	20MHz	16QAM	38150	50RB#25	22.17	25.39	30.00	PASS
Band38	20MHz	16QAM	38150	50RB#50	22.21	25.43	30.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	22.21	25.43	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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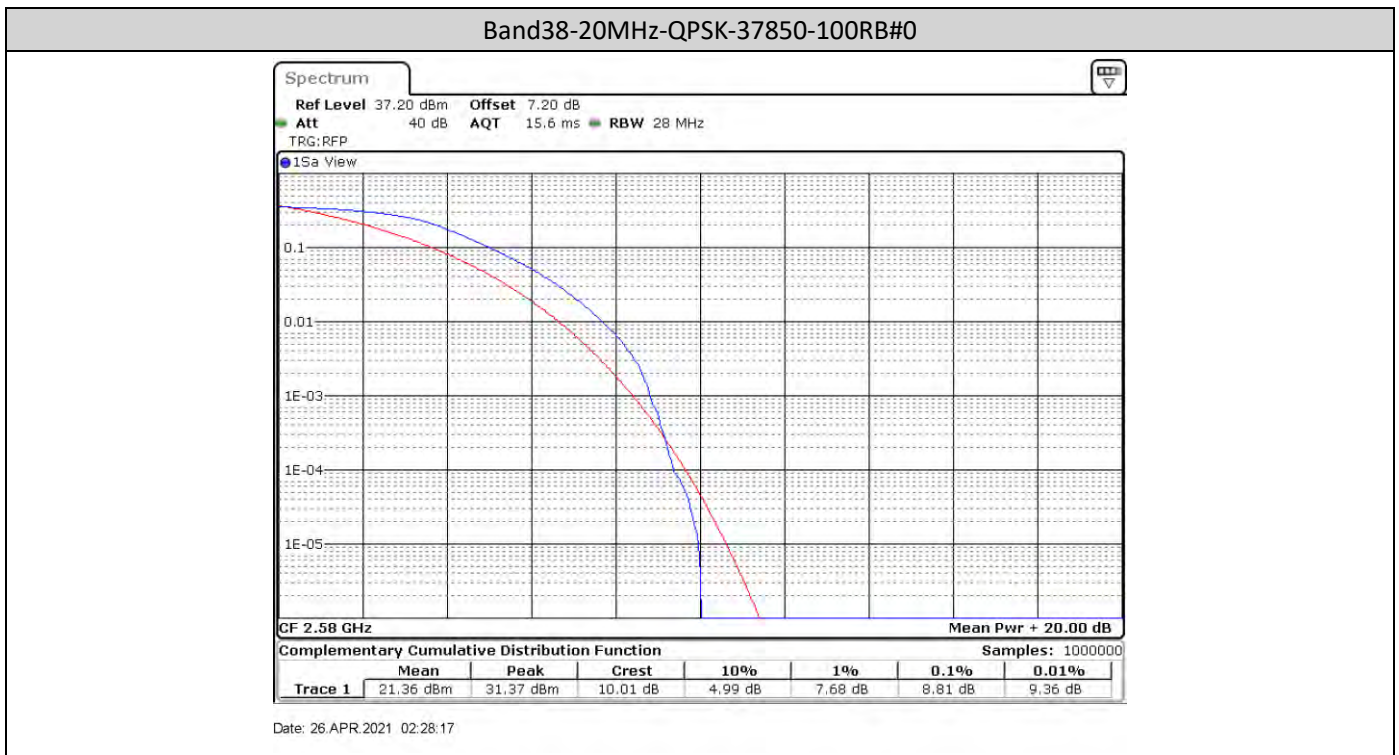


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	8.81	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	8.84	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	9.13	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.71	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.74	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.68	13	PASS

2.2. Test Plots

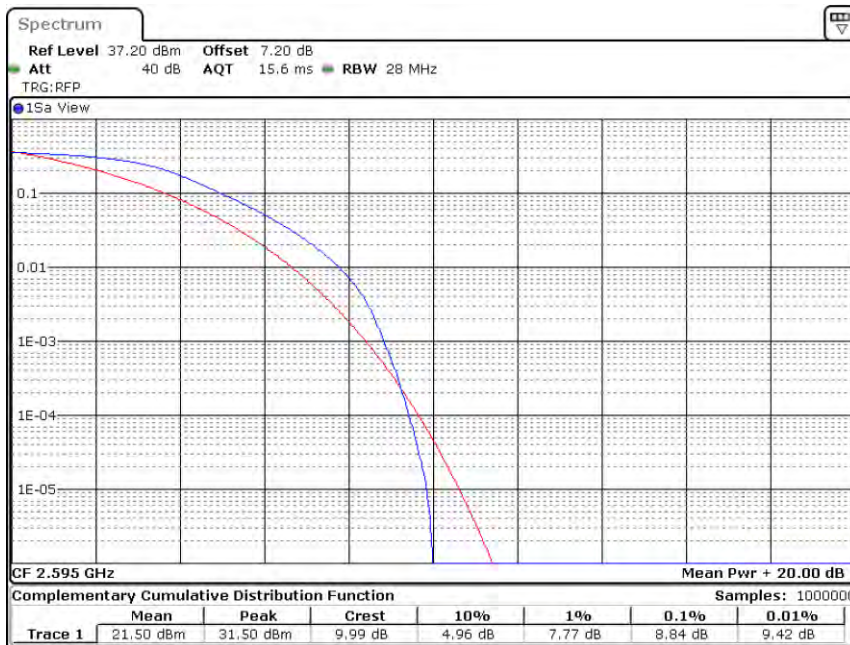


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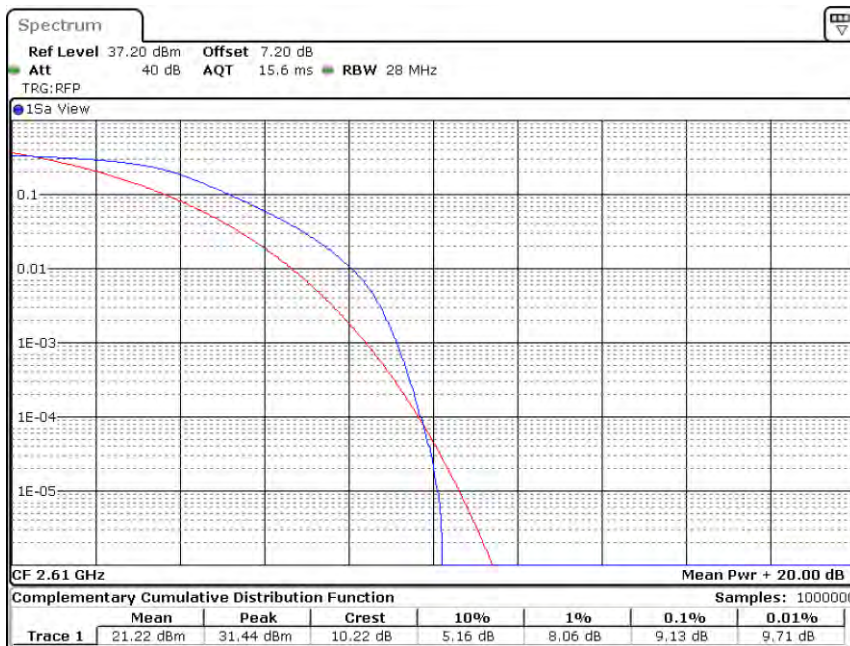
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Band38-20MHz-QPSK-38000-100RB#0



Date: 26.APR.2021 02:28:39

Band38-20MHz-QPSK-38150-100RB#0



Date: 26.APR.2021 02:29:02



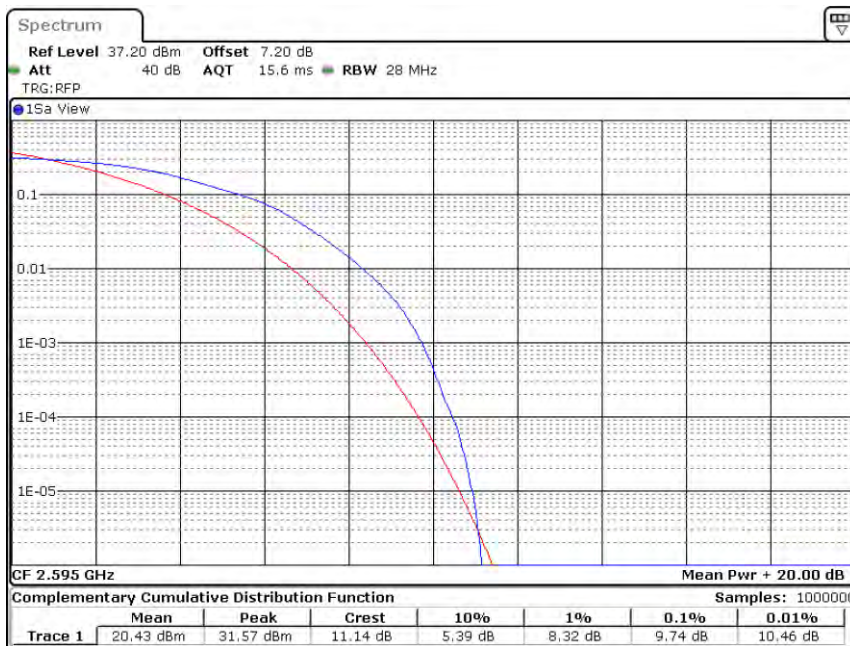
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Band38-20MHz-16QAM-37850-100RB#0



Date: 26.APR.2021 02:28:28

Band38-20MHz-16QAM-38000-100RB#0



Date: 26.APR.2021 02:28:50



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Band38-20MHz-16QAM-38150-100RB#0



Date: 26.APR.2021 02:29:13

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



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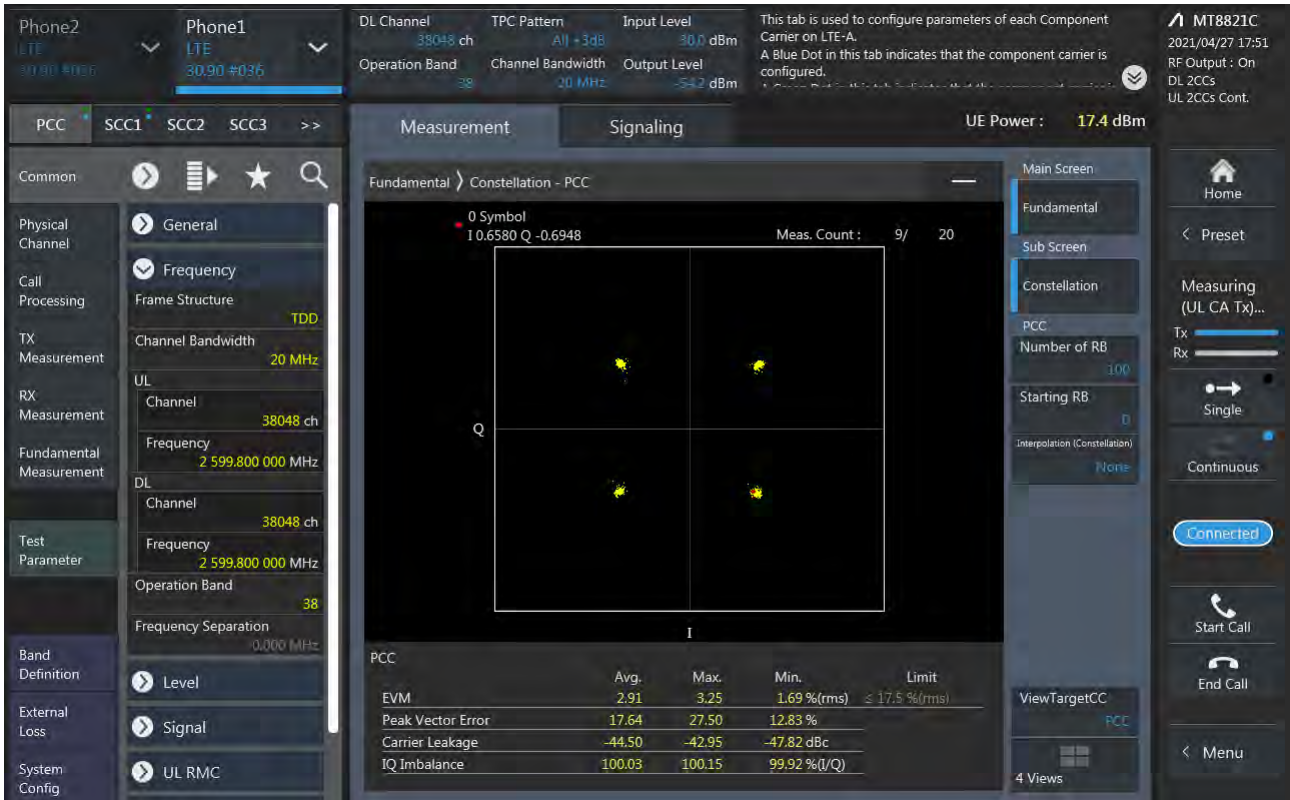
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

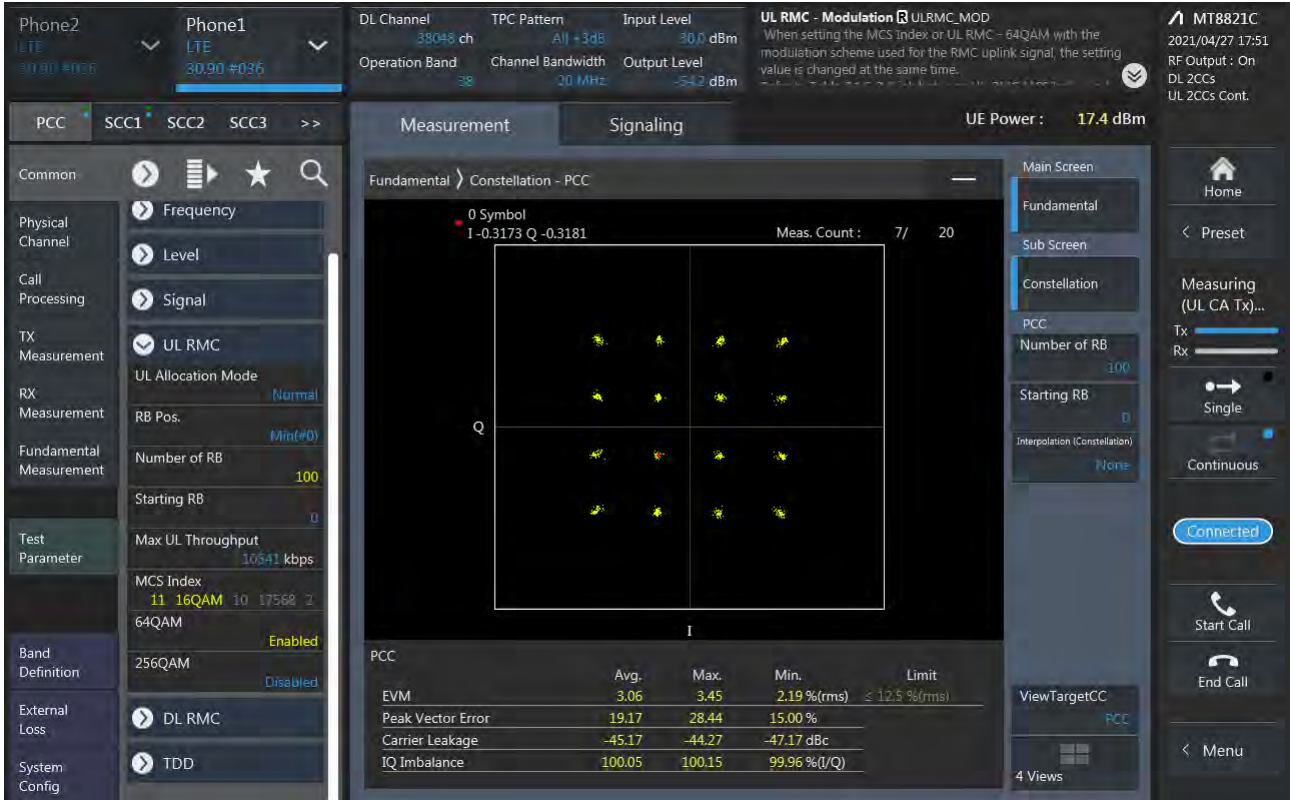
3.1.1. Test Channel = MCH





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
Band38	5MHz	QPSK	37775	25RB#0	4.476	5.020	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.476	5.010	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.476	4.990	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.496	5.120	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.496	5.030	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.496	4.940	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.911	9.700	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.911	9.680	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.911	9.680	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.911	9.840	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.911	9.780	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.911	9.700	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.516	20.940	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.487	15.450	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.487	15.540	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.546	25.320	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.546	24.780	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.516	24.870	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.902	20.280	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.902	20.280	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.902	20.240	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.862	19.600	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.862	19.520	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.862	19.520	PASS



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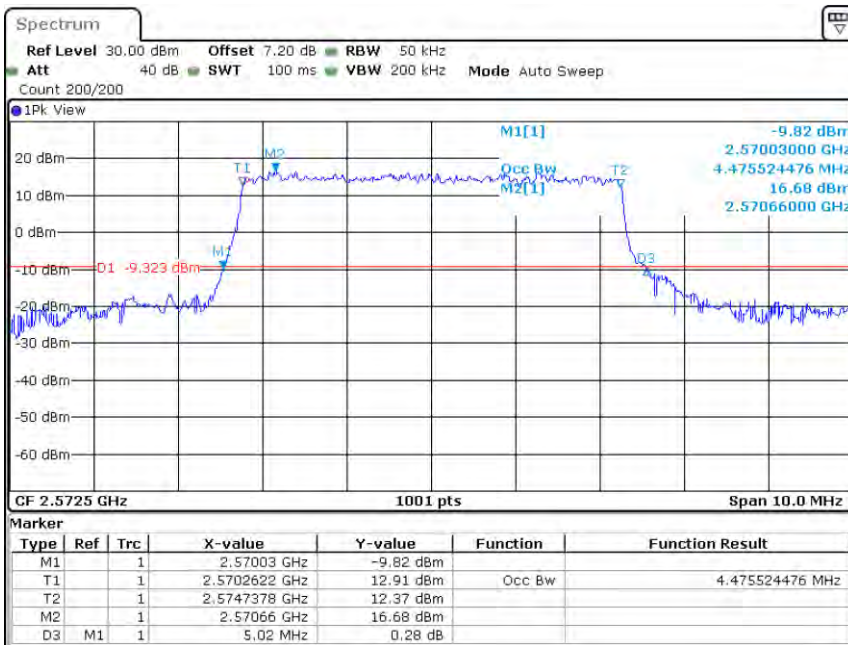
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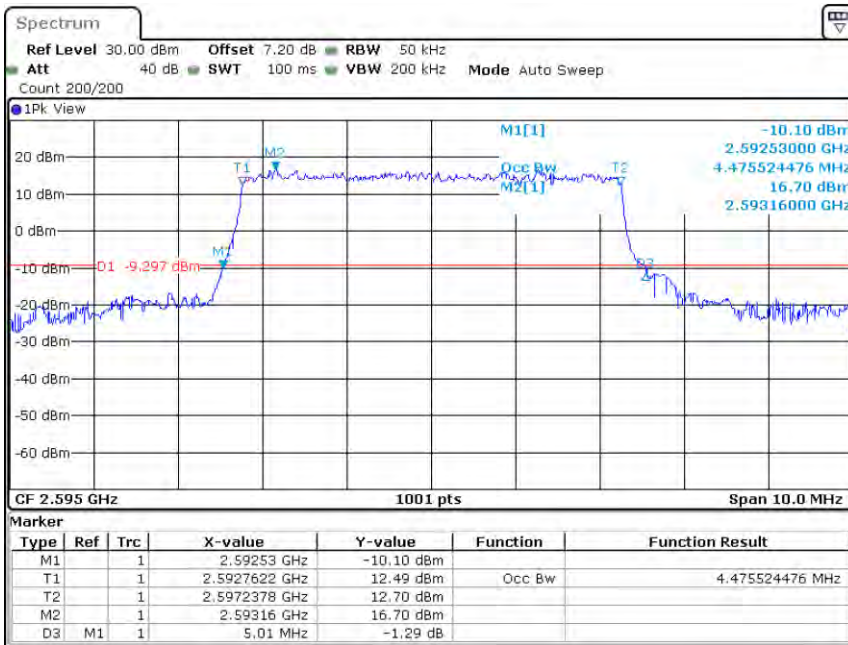
4.2. Test Plots

Band38-5MHz-QPSK-37775-25RB#0-4.476



Date: 26 APR 2021 01:59:05

Band38-5MHz-QPSK-38000-25RB#0-4.476



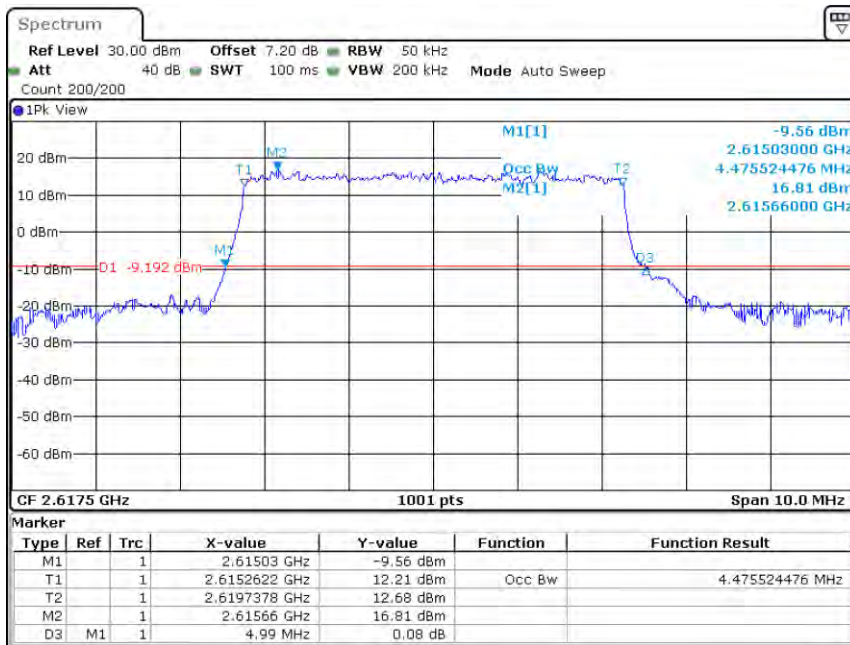
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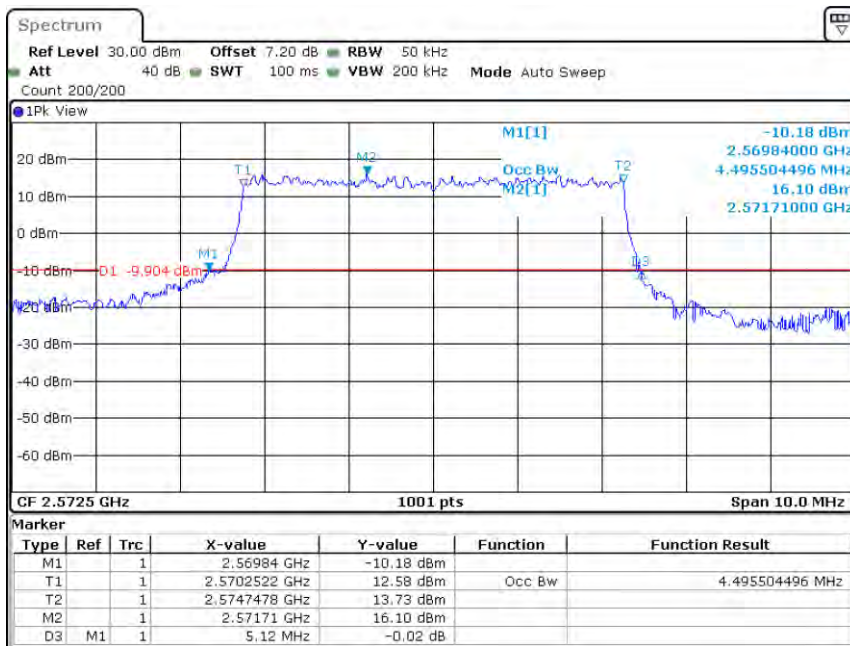


Band38-5MHz-QPSK-38225-25RB#0-4.476



Date: 26.APR 2021 02:01:16

Band38-5MHz-16QAM-37775-25RB#0-4.496



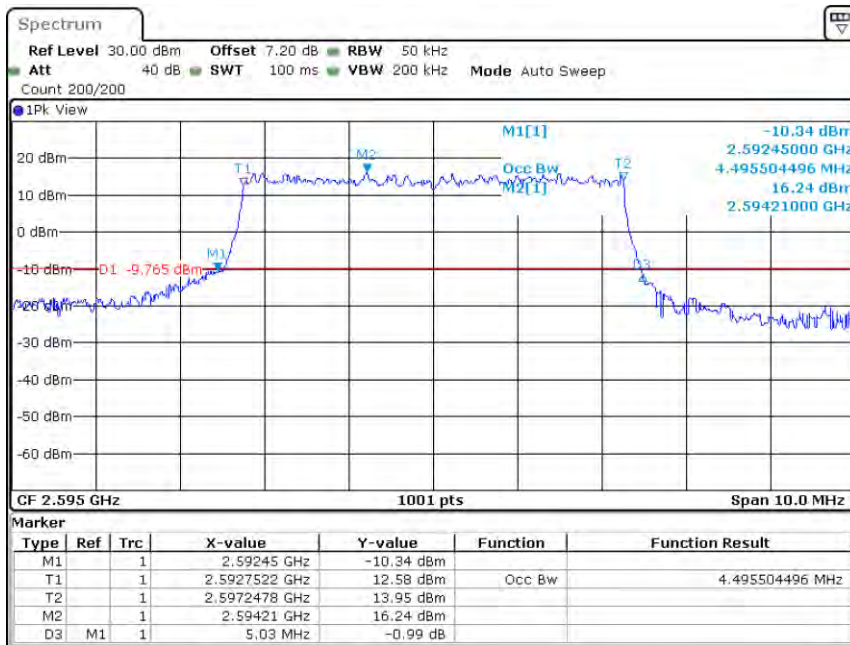
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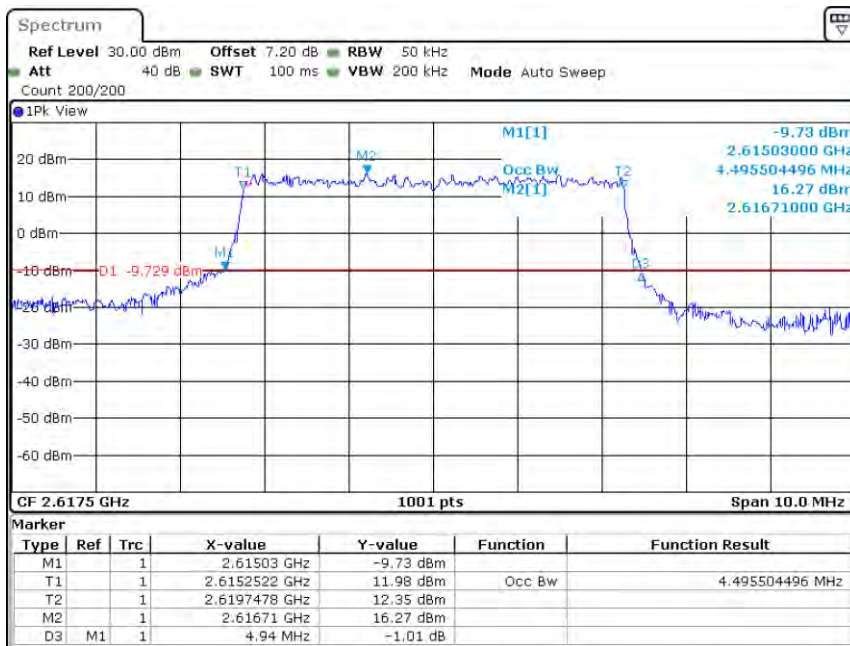


Band38-5MHz-16QAM-38000-25RB#0-4.496



Date: 26.APR.2021 02:00:43

Band38-5MHz-16QAM-38225-25RB#0-4.496



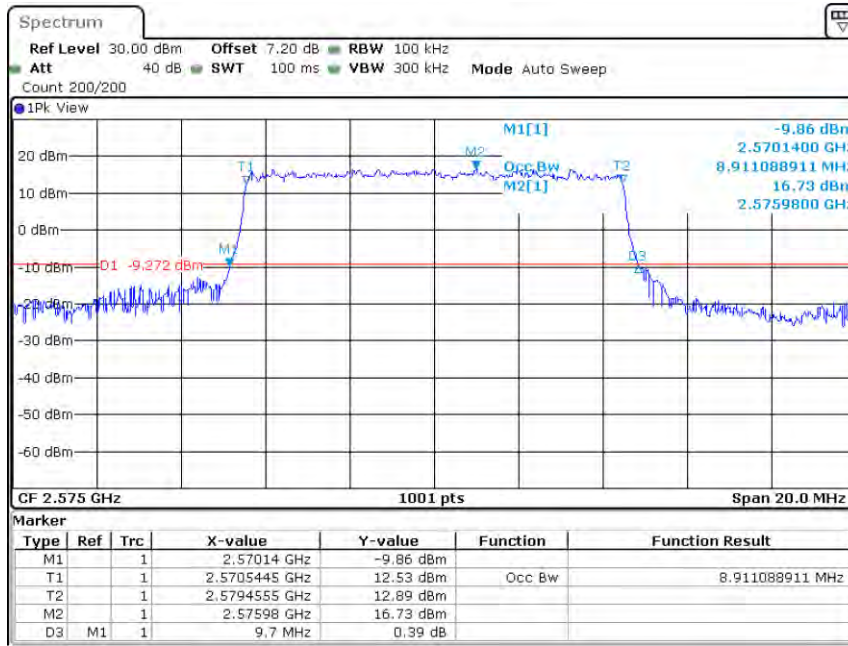
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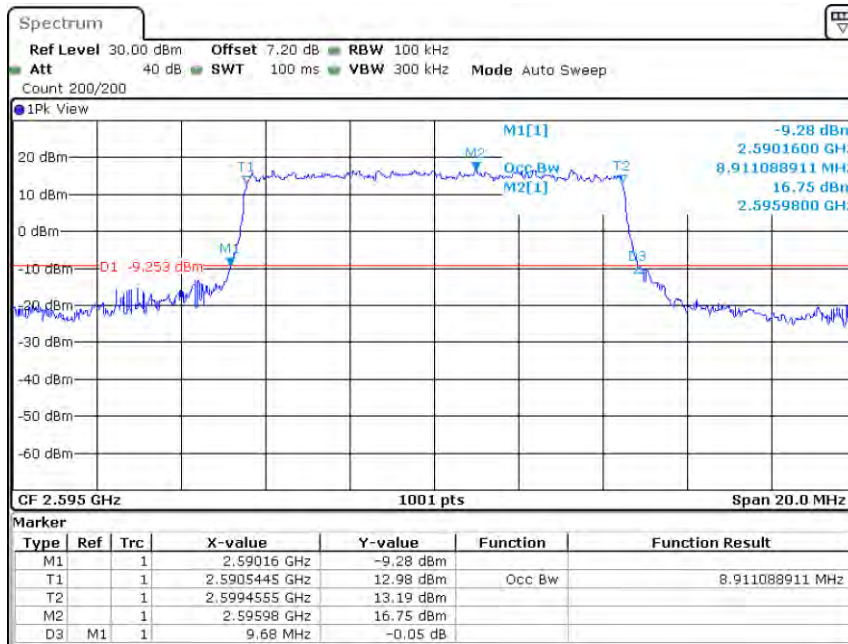


Band38-10MHz-QPSK-37800-50RB#0-8.911



Date: 26.APR.2021 02:02:26

Band38-10MHz-QPSK-38000-50RB#0-8.911



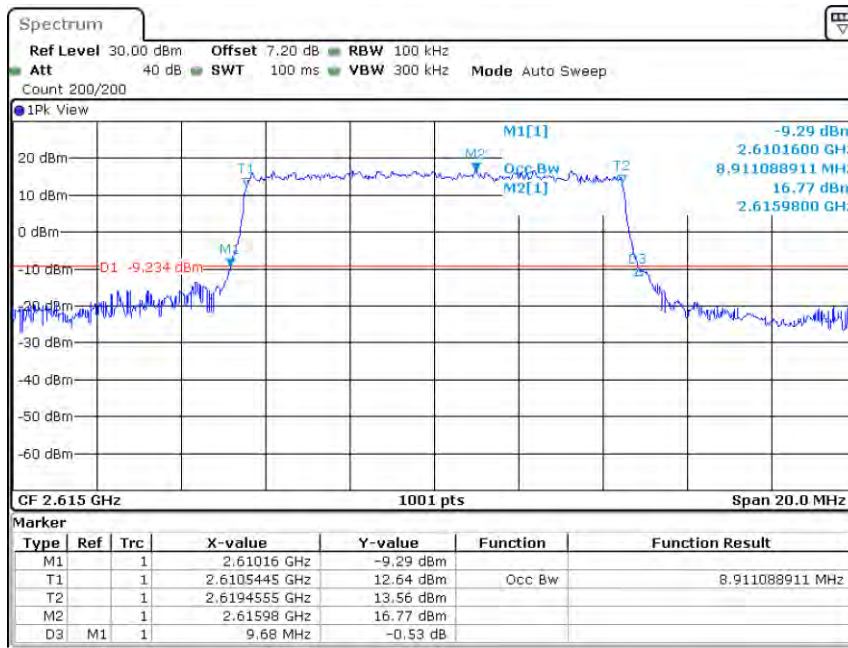
Date: 26.APR.2021 02:03:31



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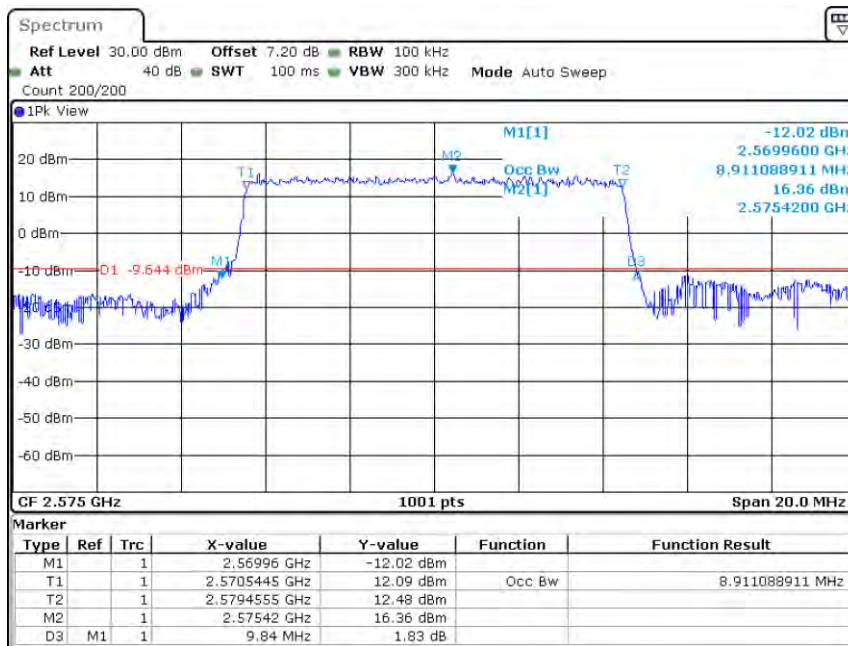


Band38-10MHz-QPSK-38200-50RB#0-8.911



Date: 26.APR 2021 02:04:37

Band38-10MHz-16QAM-37800-50RB#0-8.911



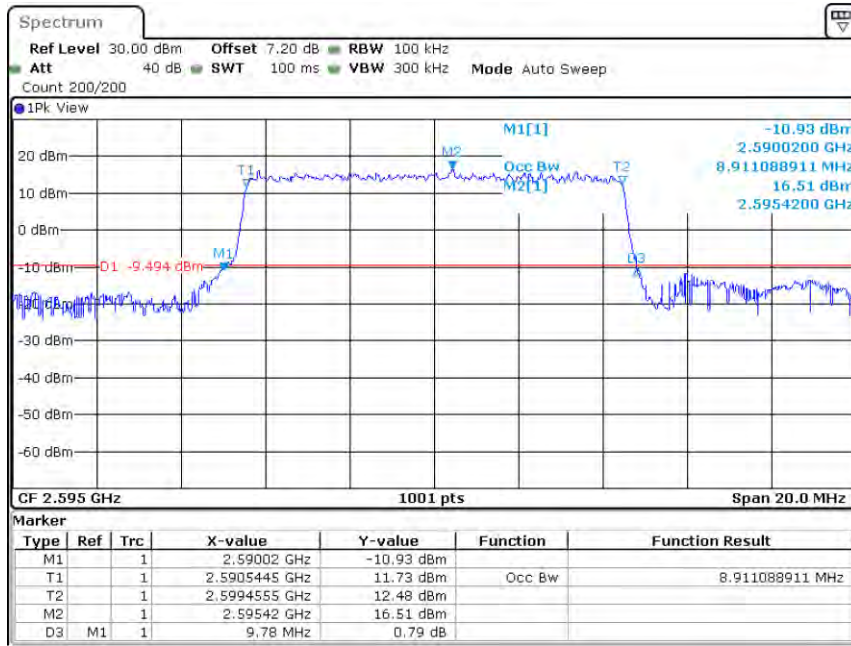
Date: 26.APR 2021 02:02:59



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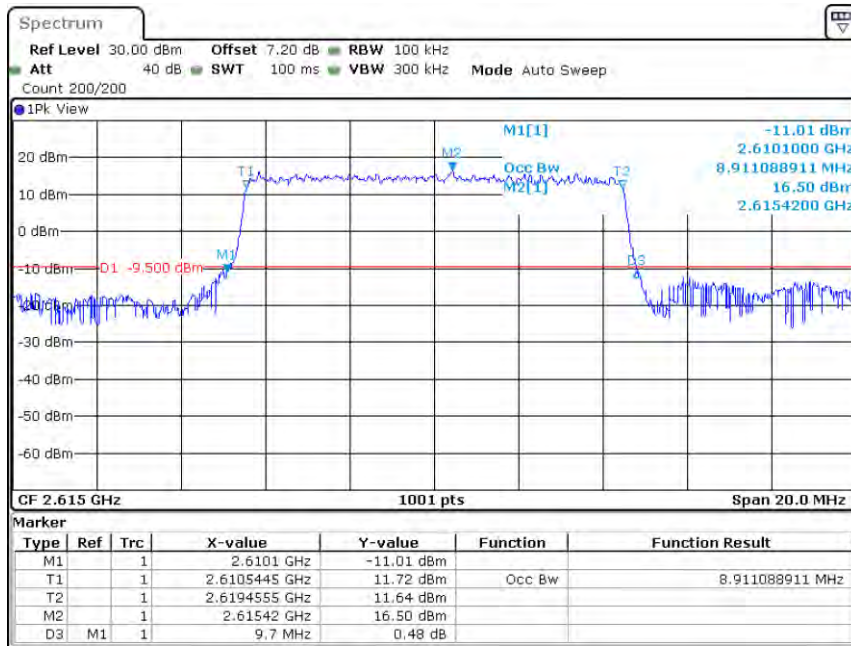


Band38-10MHz-16QAM-38000-50RB#0-8.911



Date: 26.APR 2021 02:04:04

Band38-10MHz-16QAM-38200-50RB#0-8.911

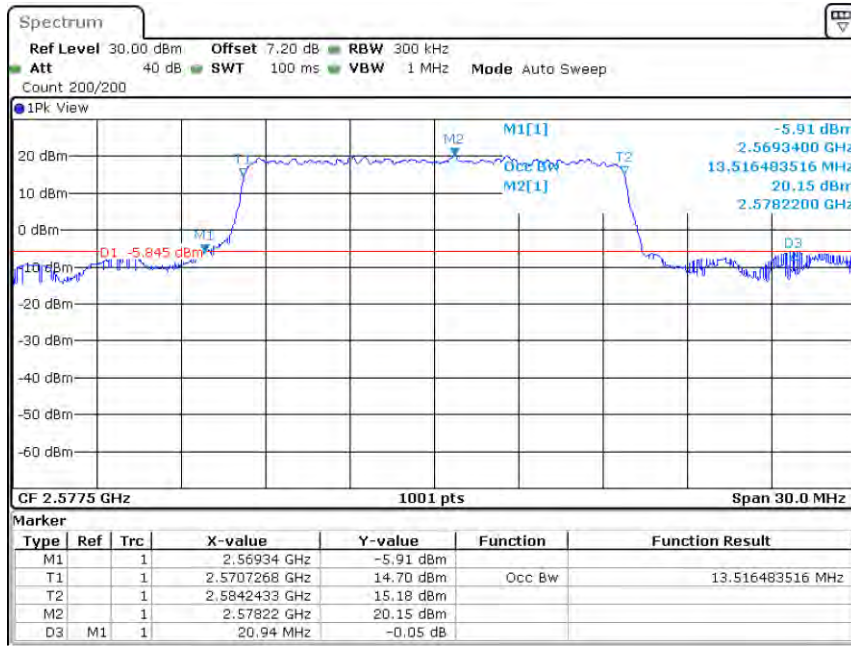


Date: 26.APR 2021 02:05:10



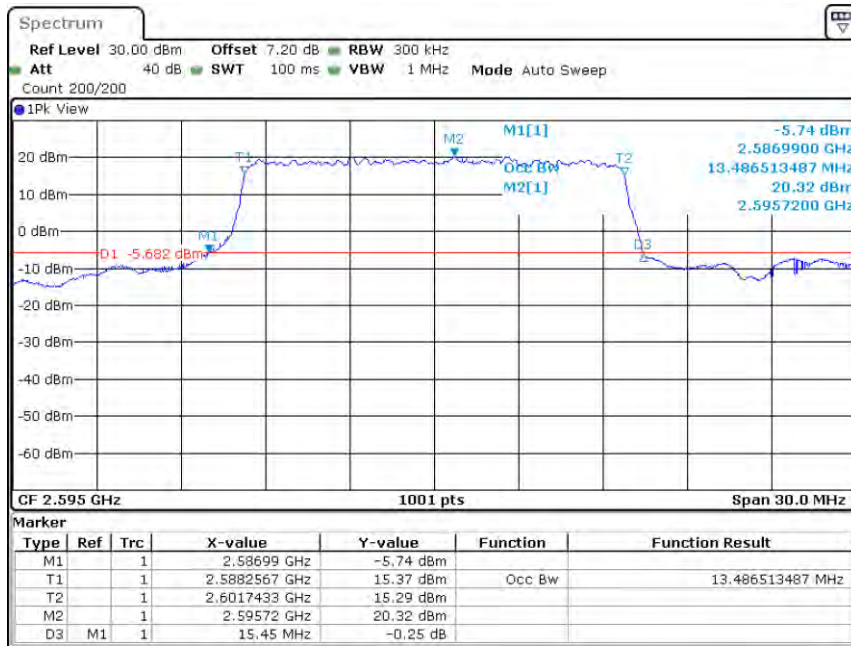
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Band38-15MHz-QPSK-37825-75RB#0-13.516



Date: 26.APR.2021 02:34:18

Band38-15MHz-QPSK-38000-75RB#0-13.487



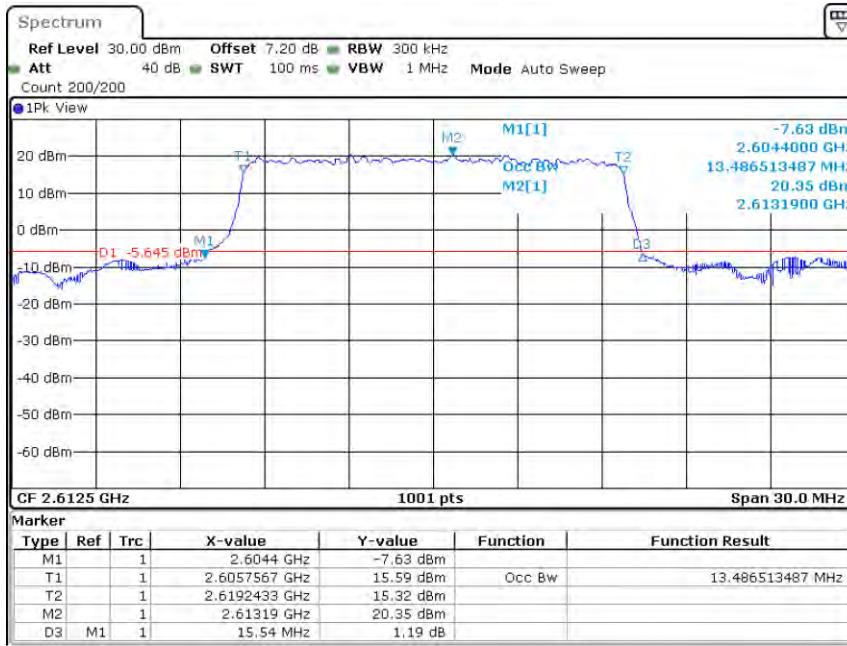
Date: 26.APR.2021 02:37:42



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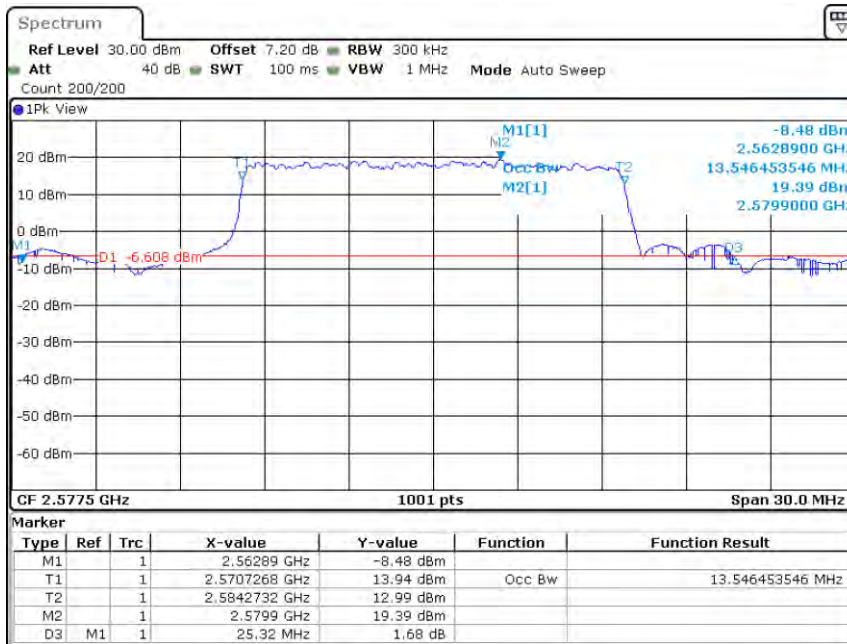


Band38-15MHz-QPSK-38175-75RB#0-13.487



Date: 26.APR 2021 02:40:27

Band38-15MHz-16QAM-37825-75RB#0-13.546



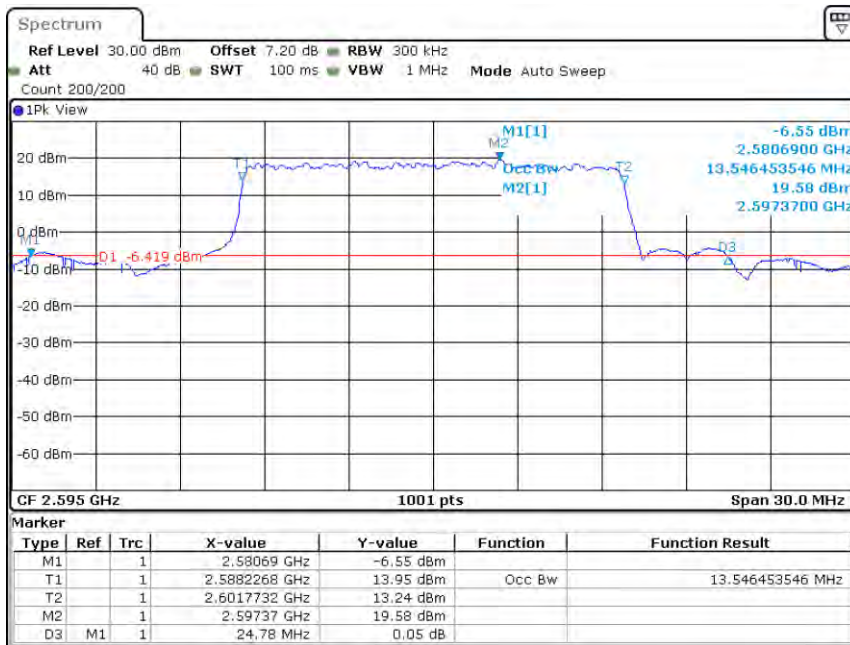
Date: 26.APR 2021 02:35:43



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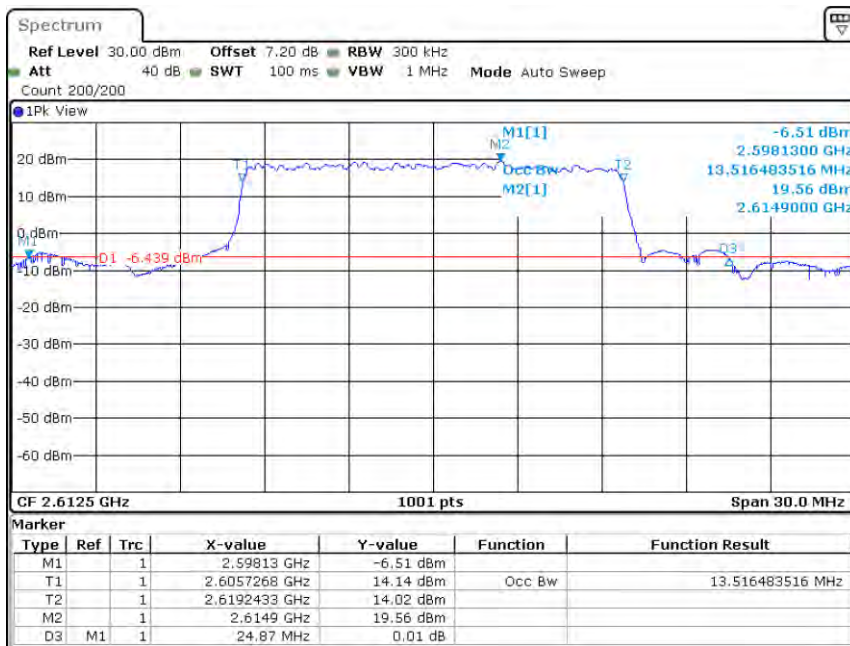


Band38-15MHz-16QAM-38000-75RB#0-13.546



Date: 26.APR.2021 02:39:43

Band38-15MHz-16QAM-38175-75RB#0-13.516



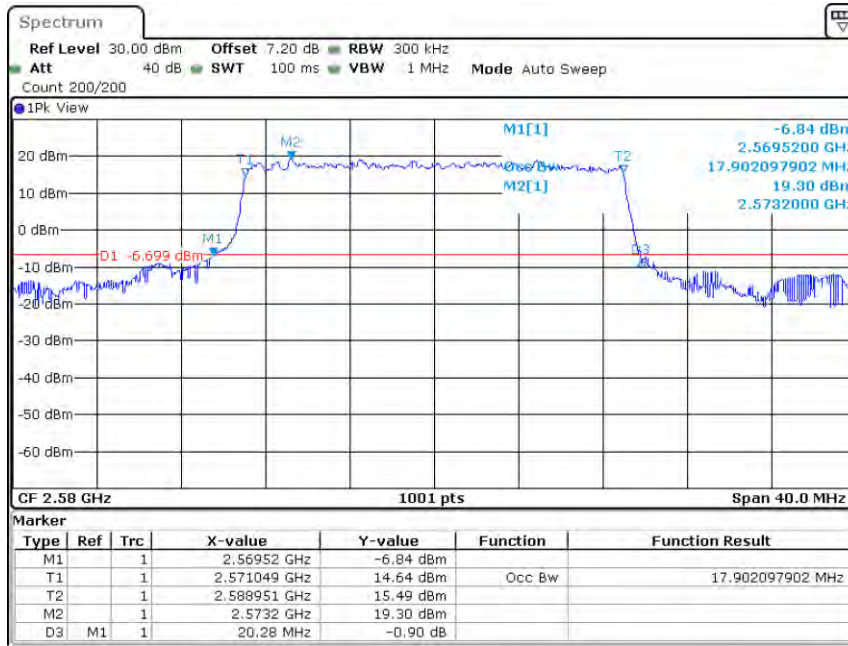
Date: 26.APR.2021 02:41:39



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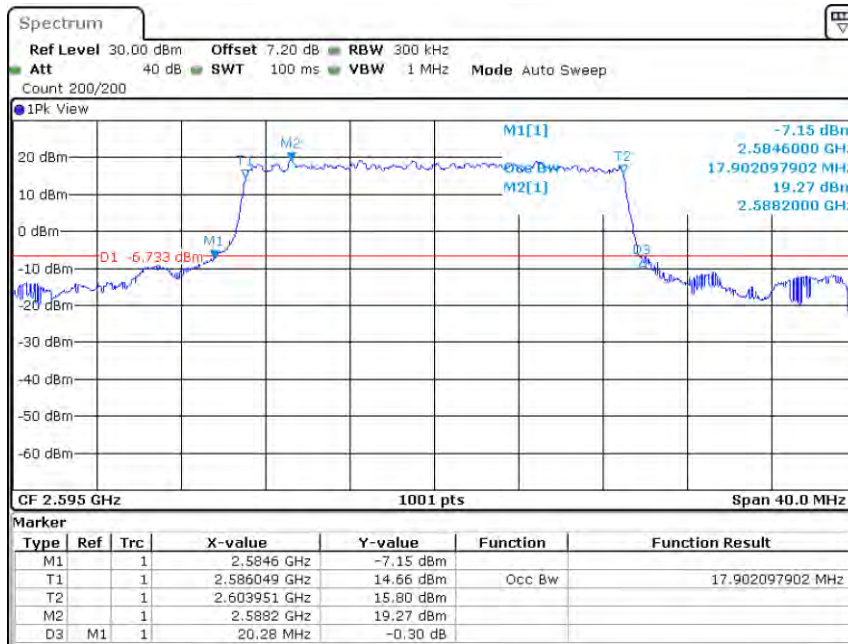


Band38-20MHz-QPSK-37850-100RB#0-17.902



Date: 26.APR 2021 02:42:16

Band38-20MHz-QPSK-38000-100RB#0-17.902



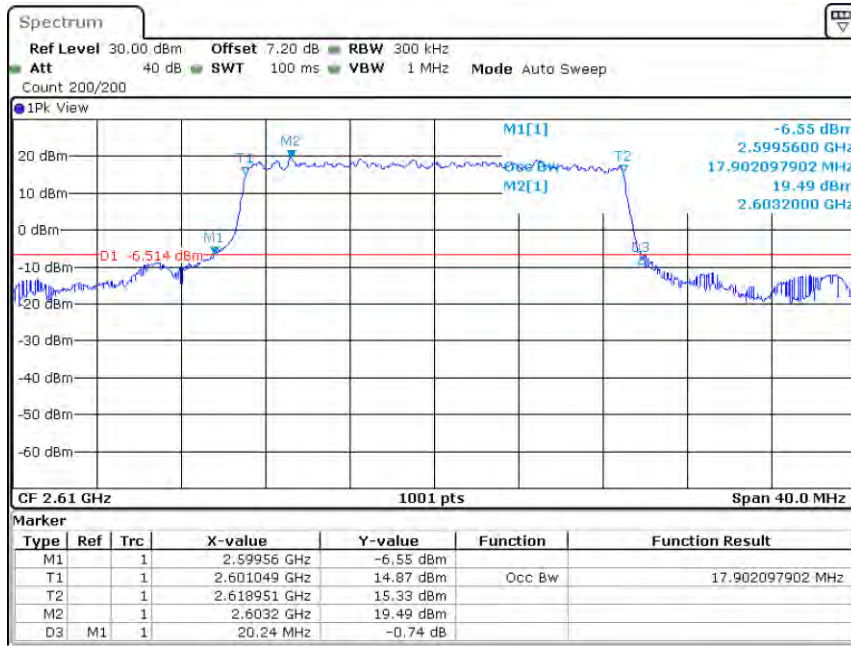
Date: 26.APR 2021 02:43:56



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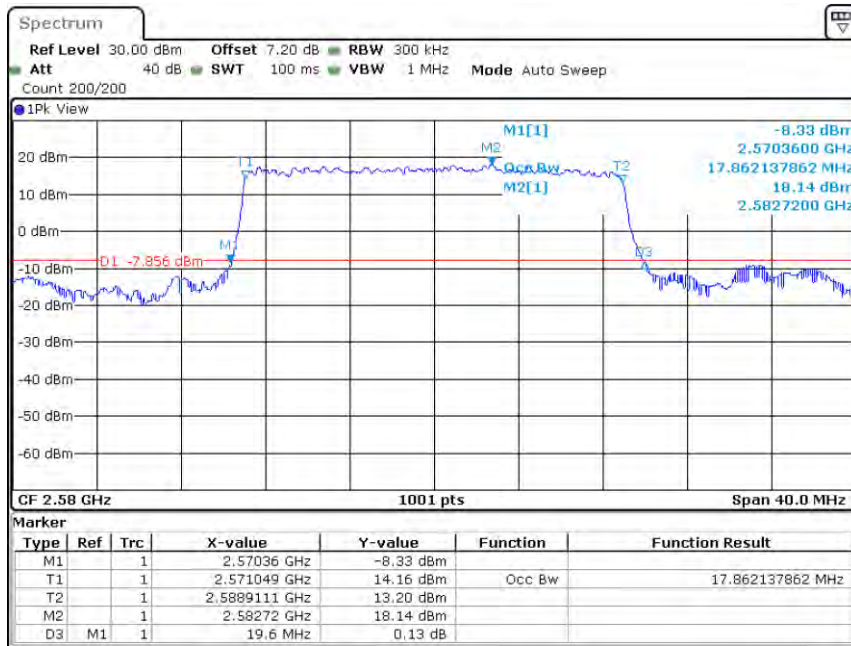


Band38-20MHz-QPSK-38150-100RB#0-17.902



Date: 26.APR.2021 02:45:17

Band38-20MHz-16QAM-37850-100RB#0-17.862



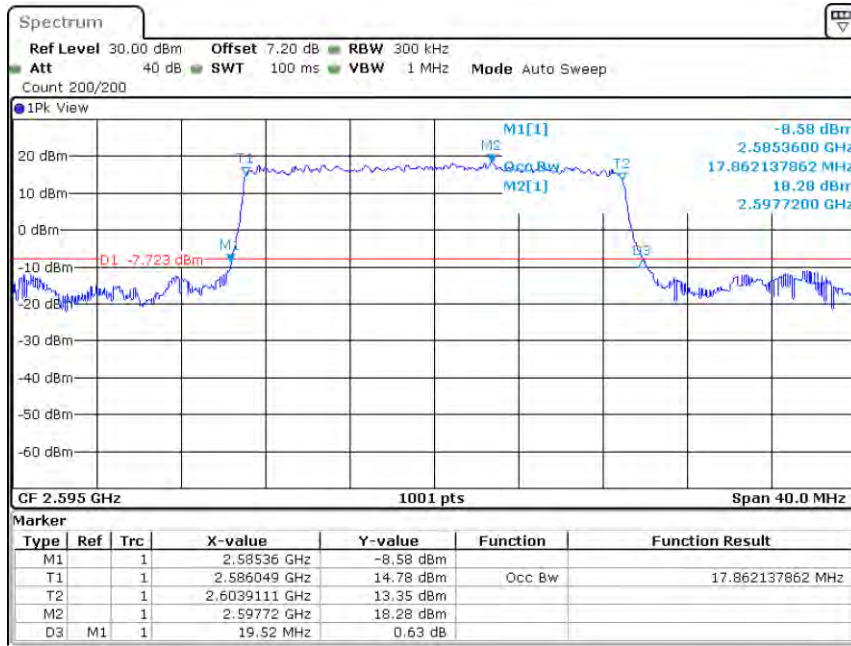
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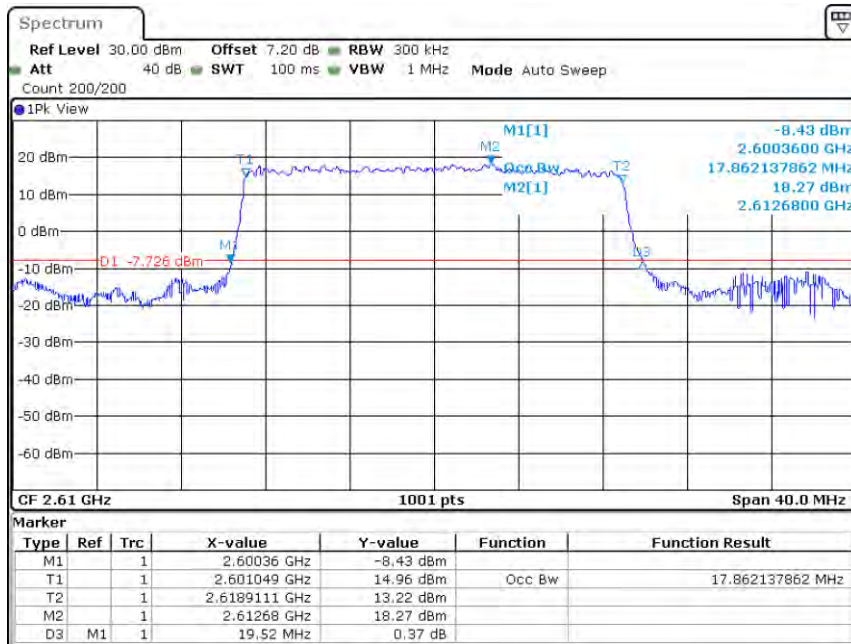


Band38-20MHz-16QAM-38000-100RB#0-17.862



Date: 26.APR 2021 02:44:28

Band38-20MHz-16QAM-38150-100RB#0-17.862



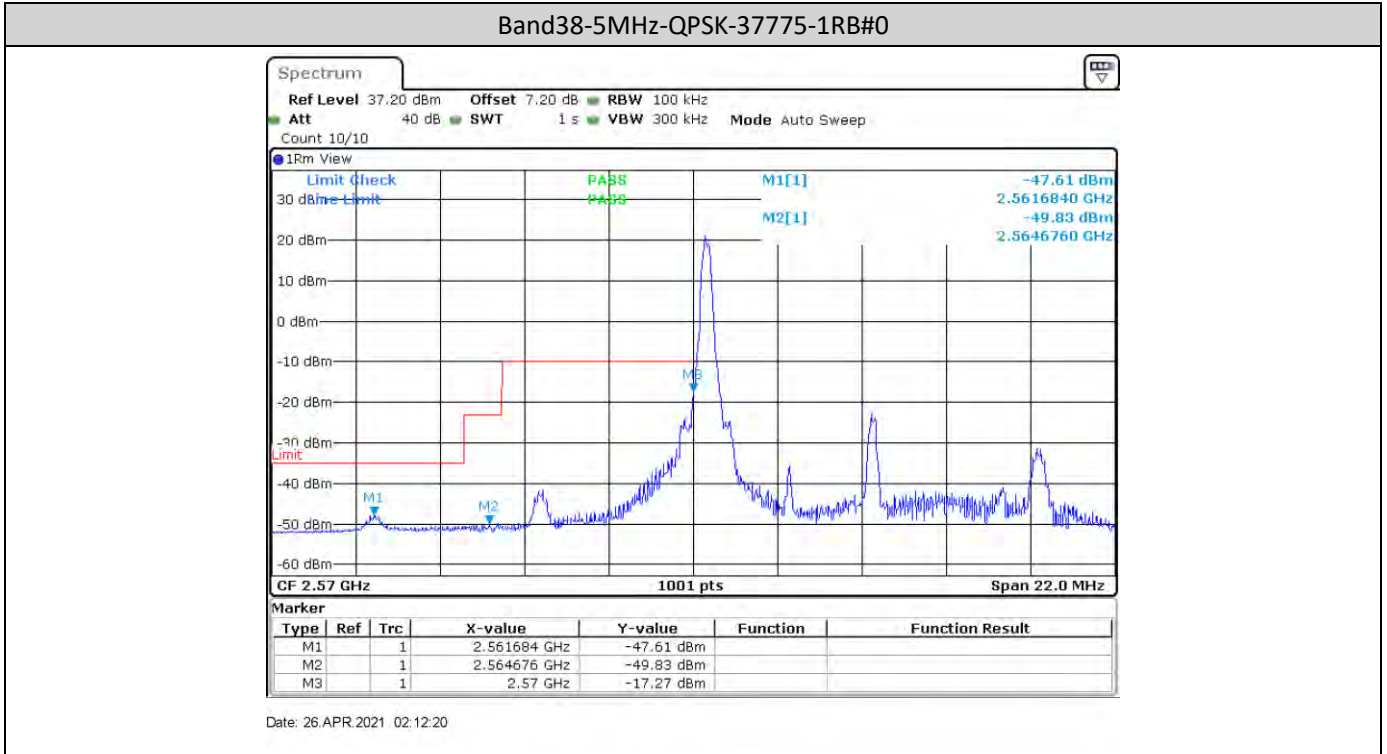
Date: 26.APR 2021 02:45:49



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5. Band Edge Compliance

5.1. Test Plots

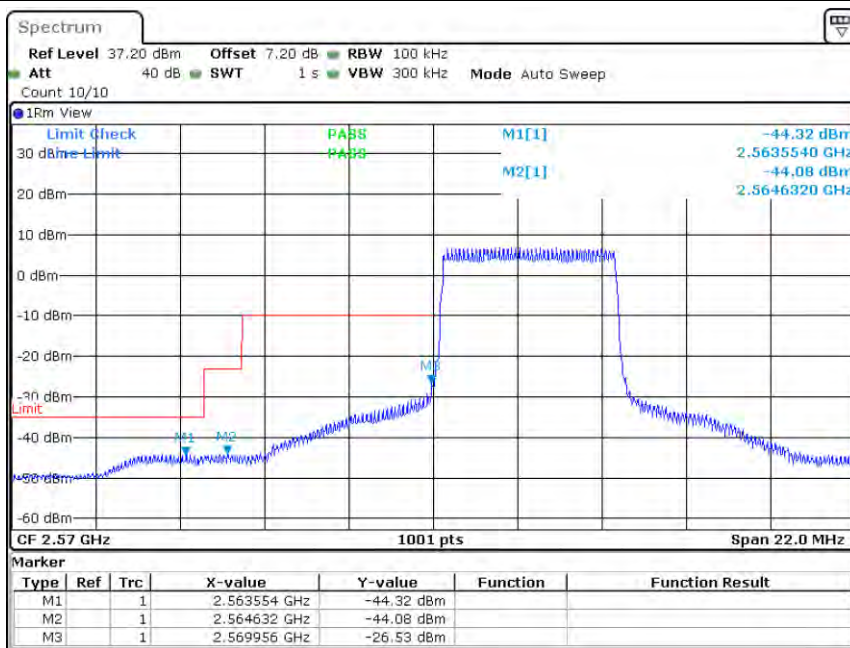


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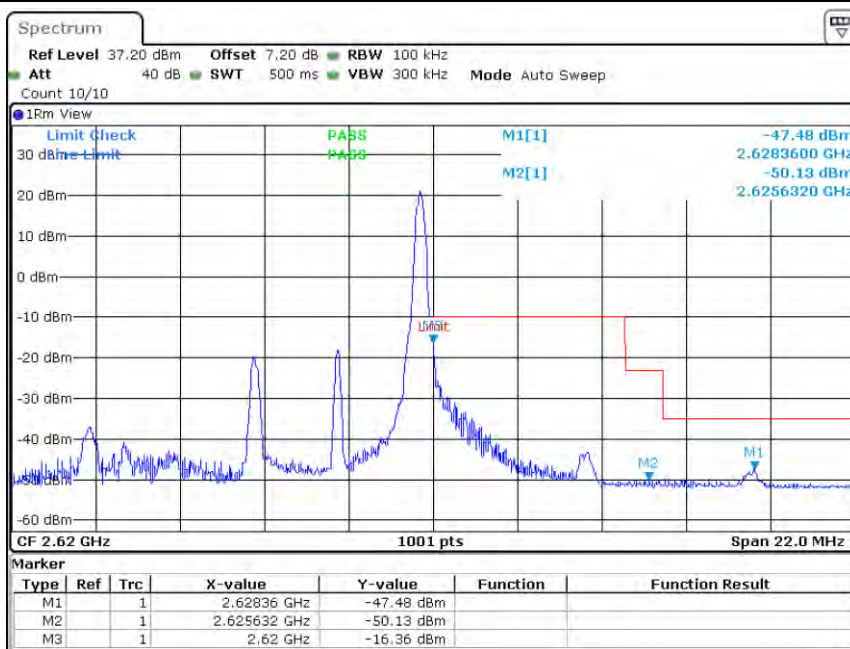


Band38-5MHz-QPSK-37775-25RB#0



Date: 26.APR.2021 02:48:16

Band38-5MHz-QPSK-38225-1RB#24

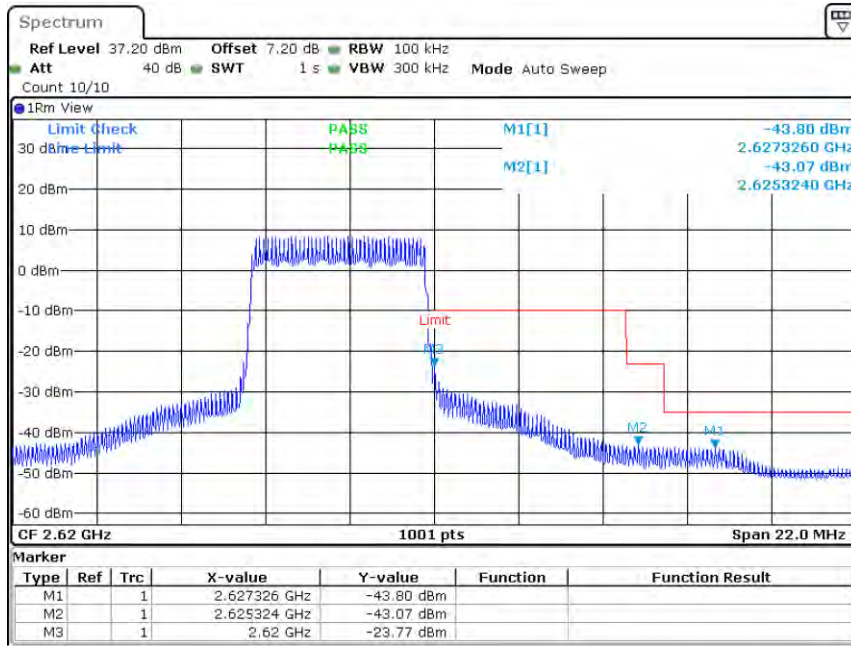


Date: 26.APR.2021 02:55:33



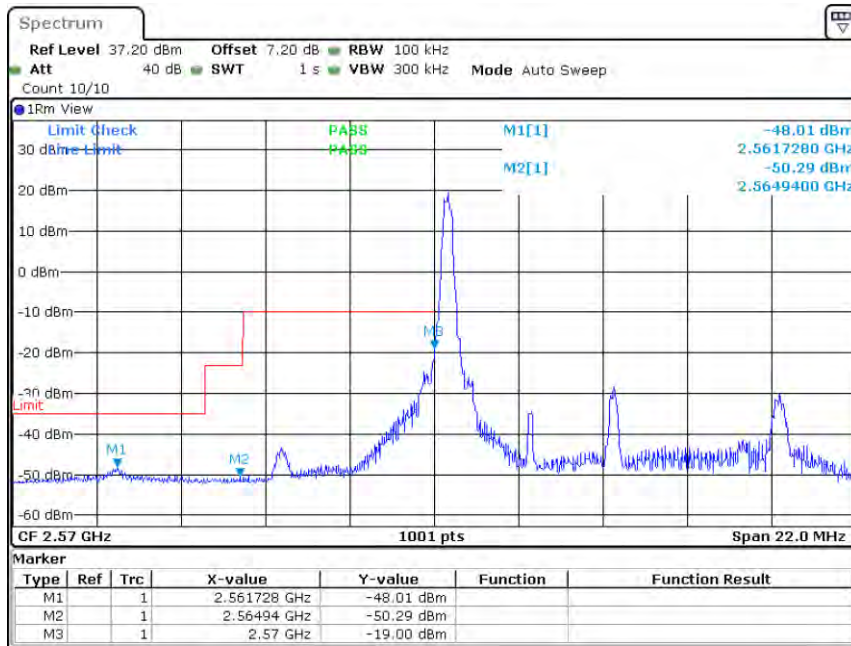
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Band38-5MHz-QPSK-38225-25RB#0



Date: 26.APR 2021 02:47:37

Band38-5MHz-16QAM-37775-1RB#0

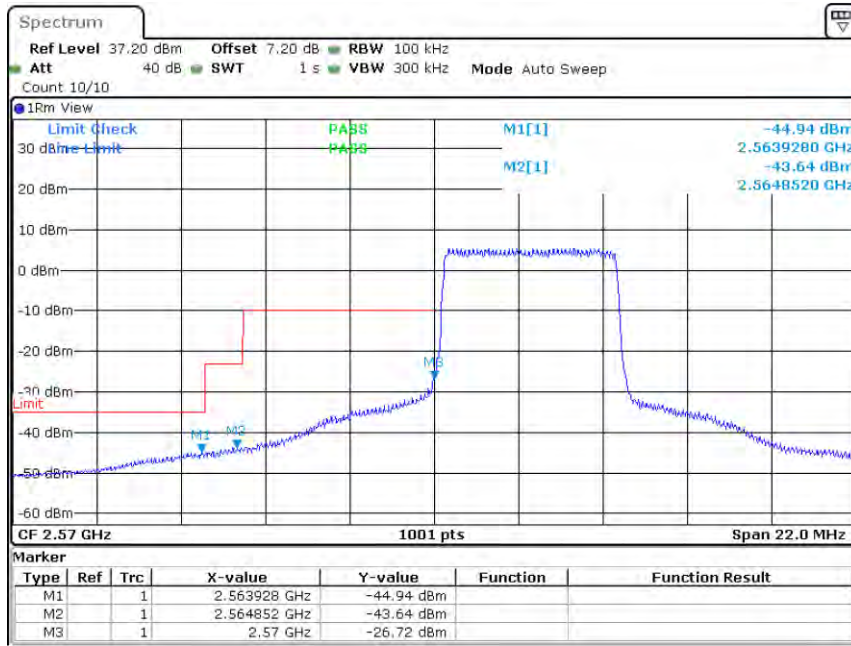


Date: 26.APR 2021 02:12:41



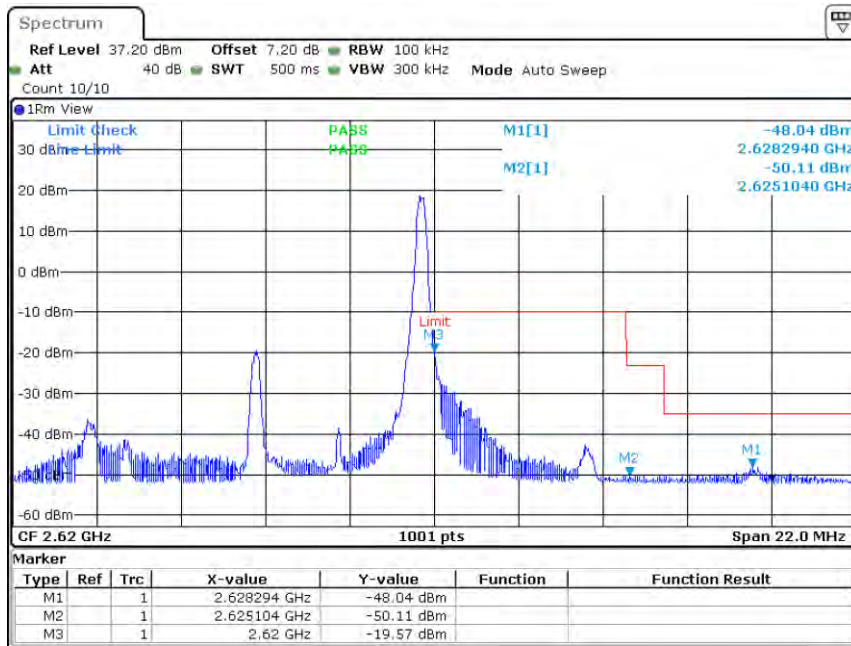
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Band38-5MHz-16QAM-37775-25RB#0



Date: 26.APR 2021 02:46:58

Band38-5MHz-16QAM-38225-1RB#24

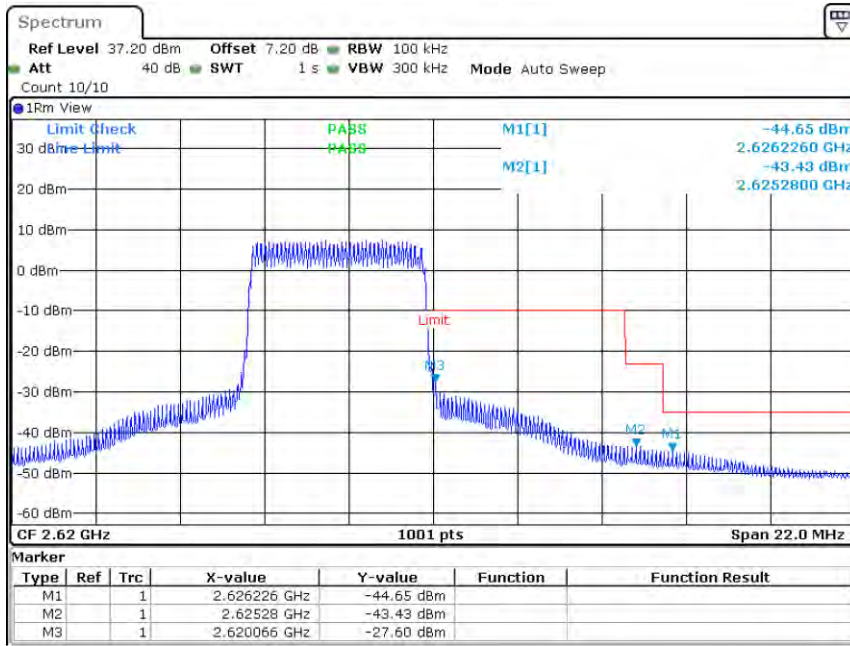


Date: 26.APR 2021 02:56:21



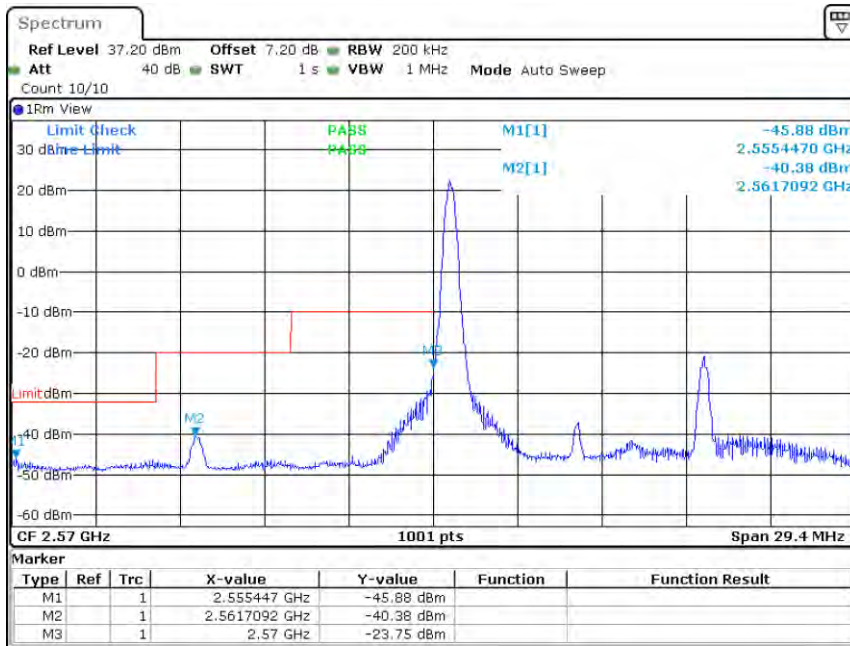
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Band38-5MHz-16QAM-38225-25RB#0



Date: 26.APR.2021 02:48:14

Band38-10MHz-QPSK-37800-1RB#0

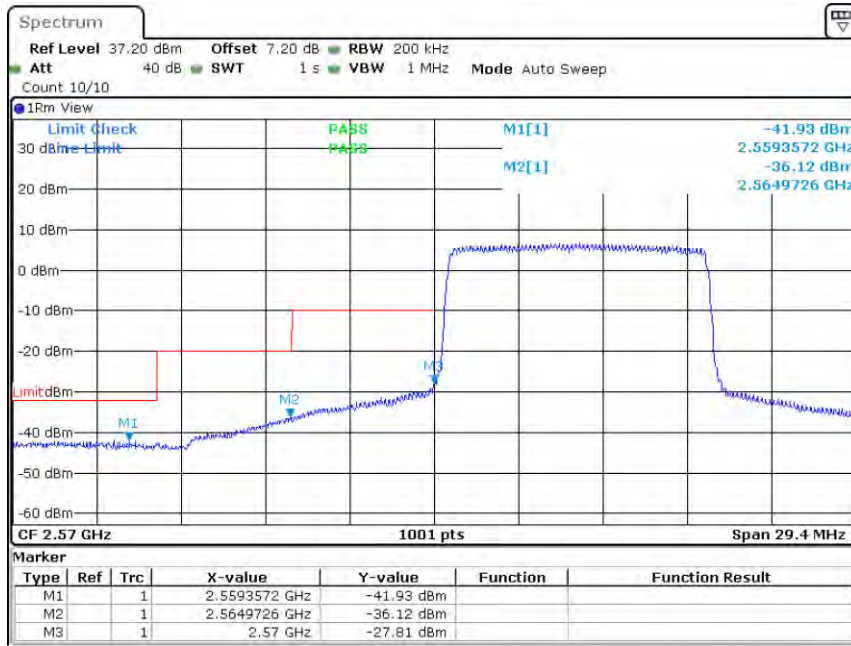


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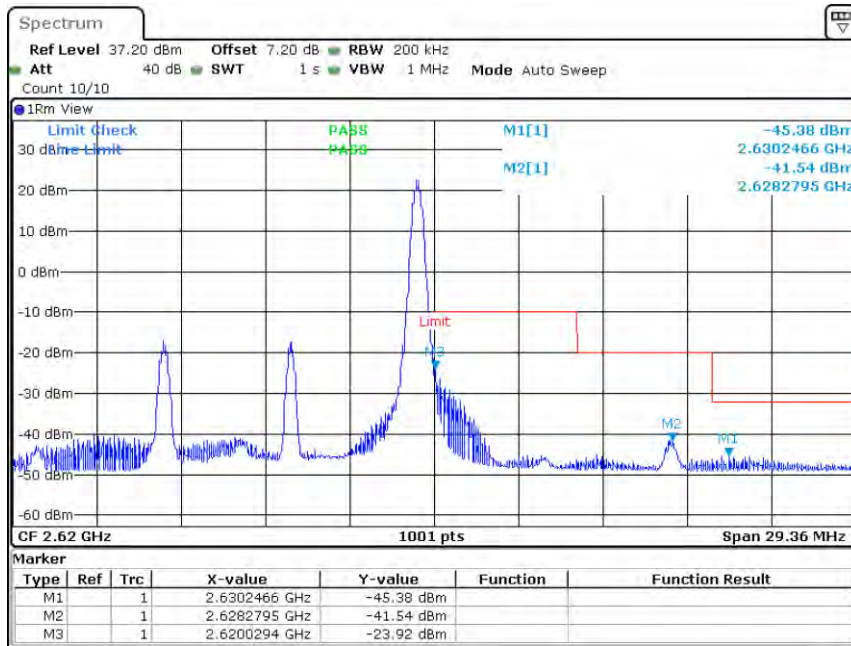
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Band38-10MHz-QPSK-37800-50RB#0



Date: 26.APR.2021 02:17:03

Band38-10MHz-QPSK-38200-1RB#49



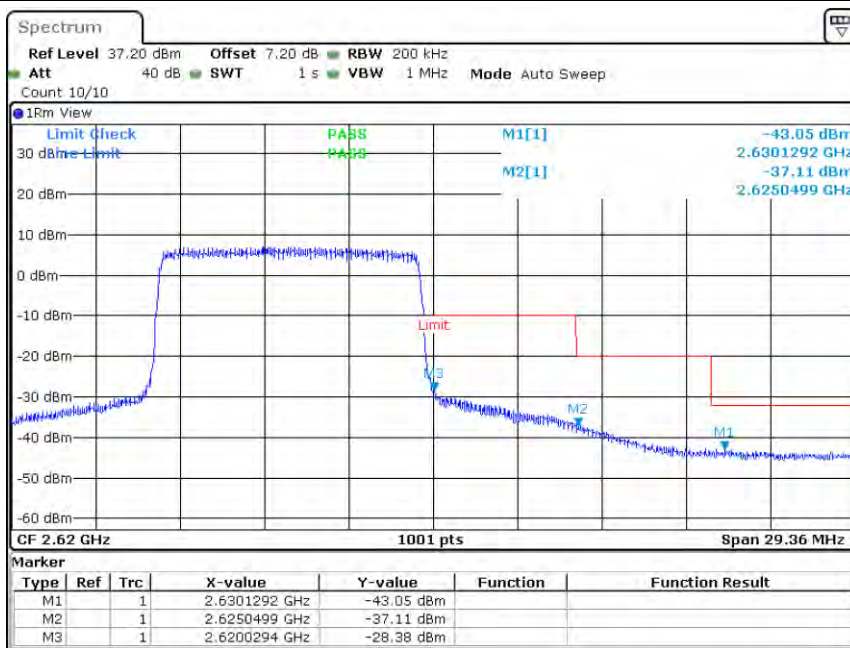
Date: 26.APR.2021 02:16:16



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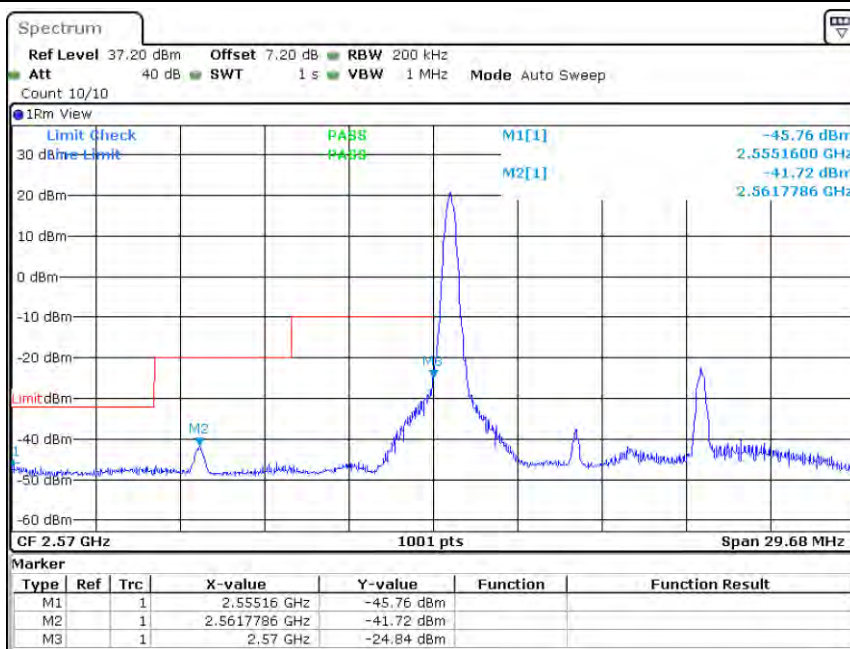


Band38-10MHz-QPSK-38200-50RB#0



Date: 26.APR.2021 02:17:47

Band38-10MHz-16QAM-37800-1RB#0



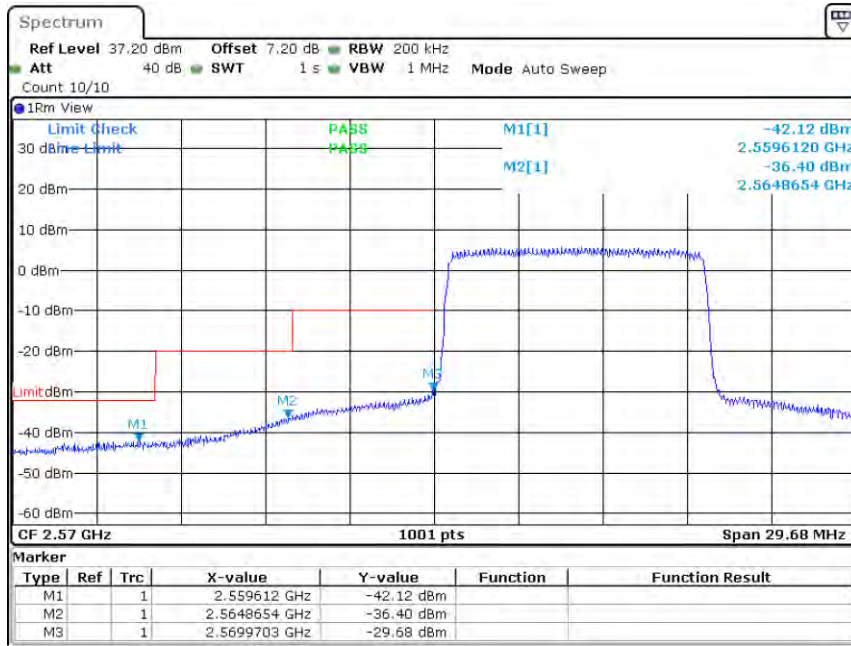
Date: 26.APR.2021 02:15:50



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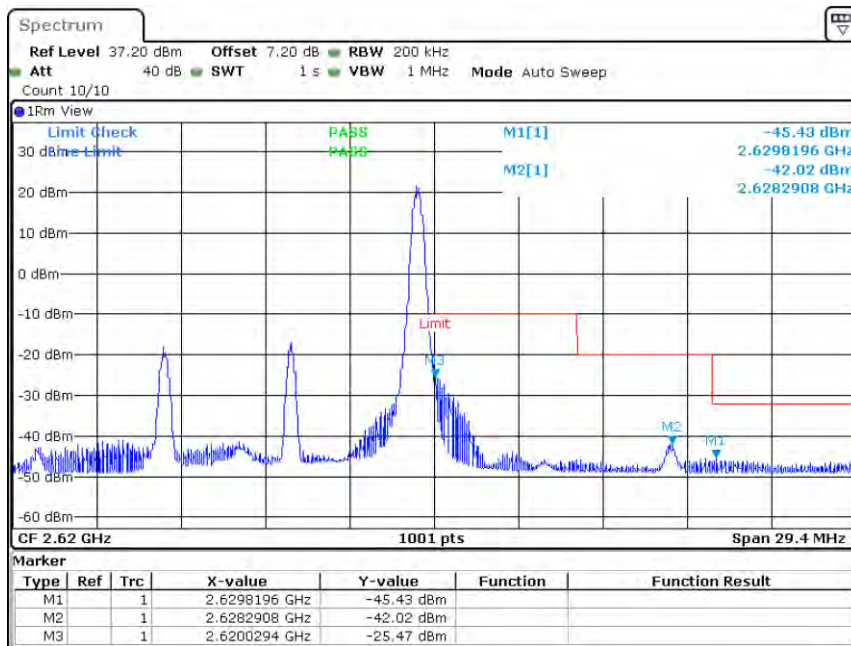


Band38-10MHz-16QAM-37800-50RB#0



Date: 26.APR.2021 02:17:25

Band38-10MHz-16QAM-38200-1RB#49



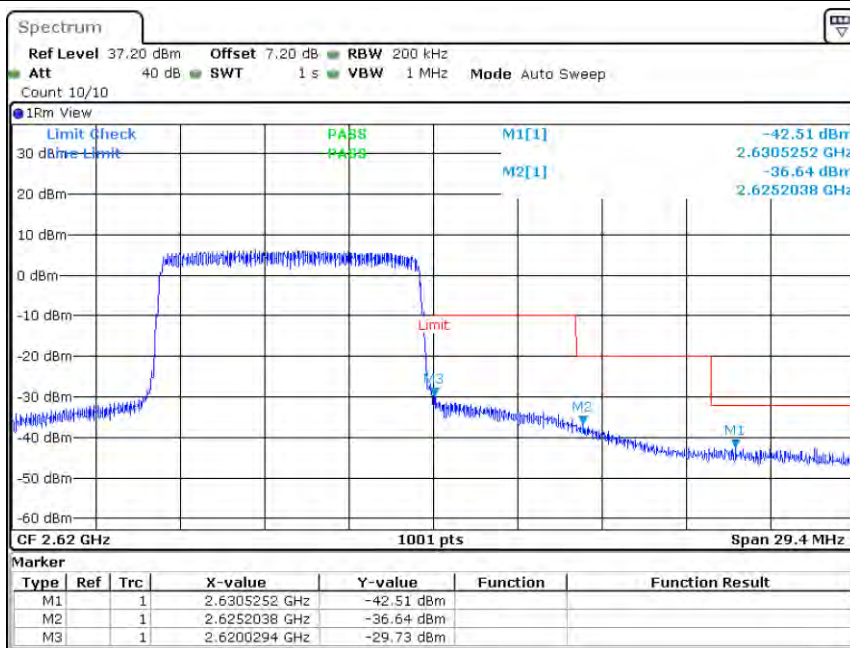
Date: 26.APR.2021 02:16:38



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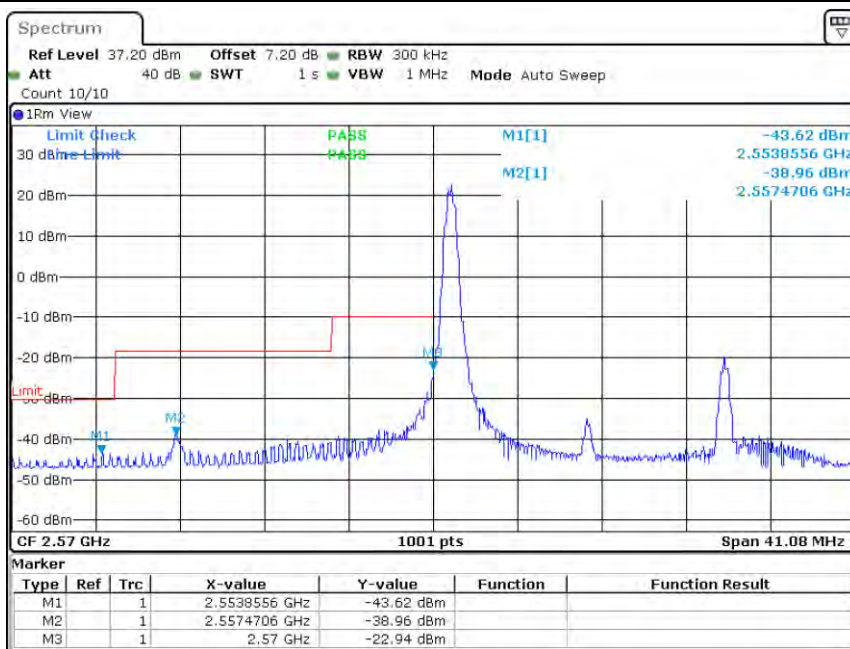


Band38-10MHz-16QAM-38200-50RB#0



Date: 26.APR.2021 02:18:09

Band38-15MHz-QPSK-37825-1RB#0

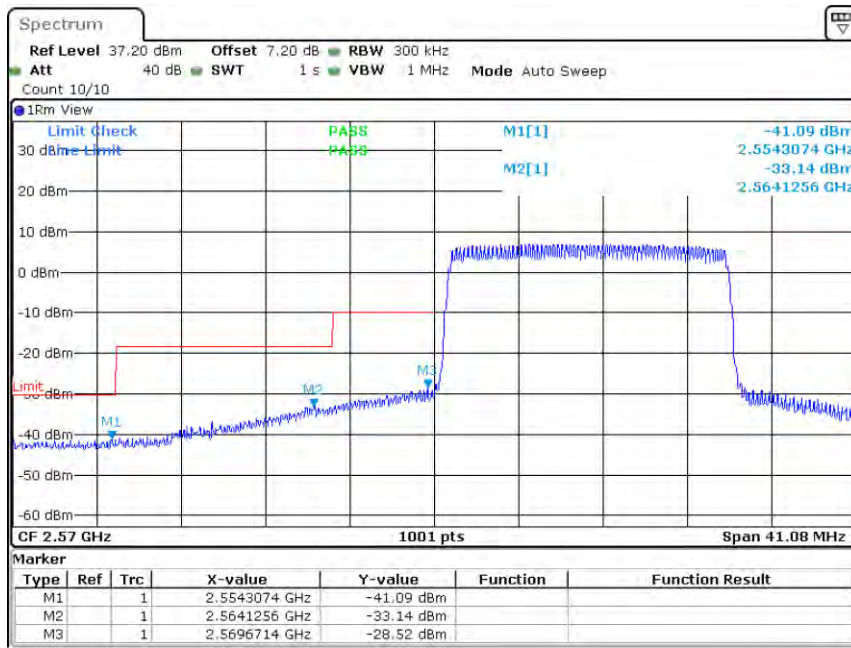


Date: 26.APR.2021 02:18:35



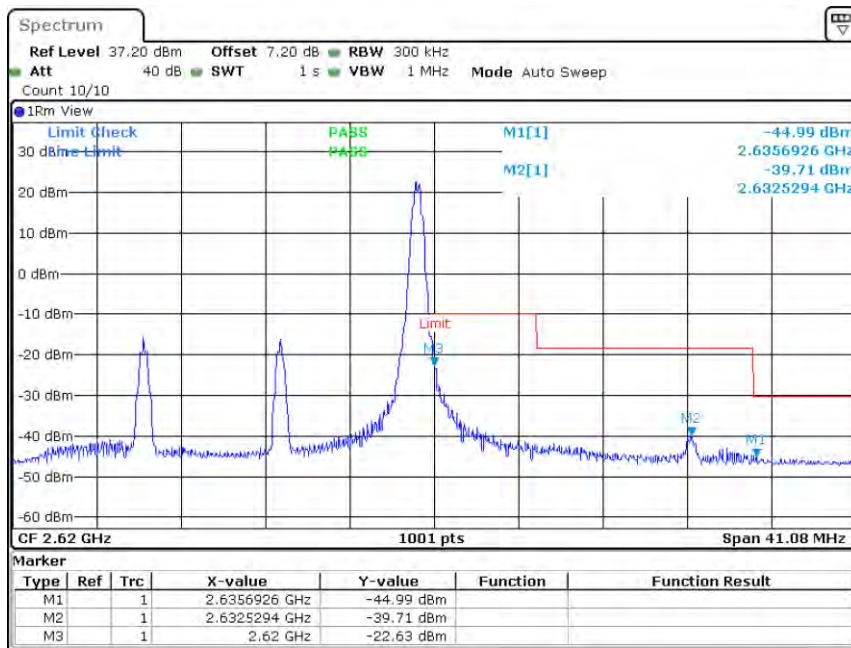
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Band38-15MHz-QPSK-37825-75RB#0



Date: 26.APR.2021 02:20:11

Band38-15MHz-QPSK-38175-1RB#74



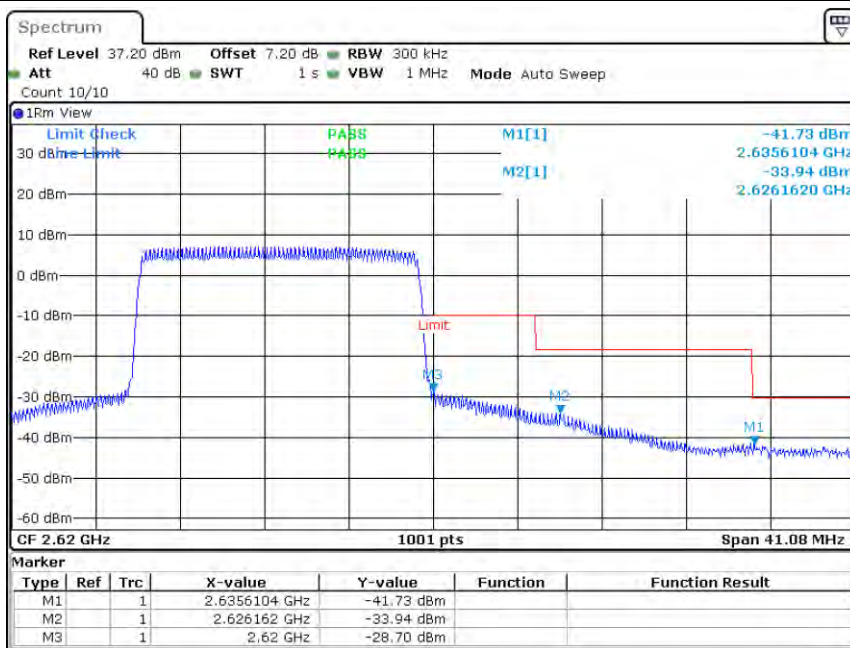
Date: 26.APR.2021 02:19:23



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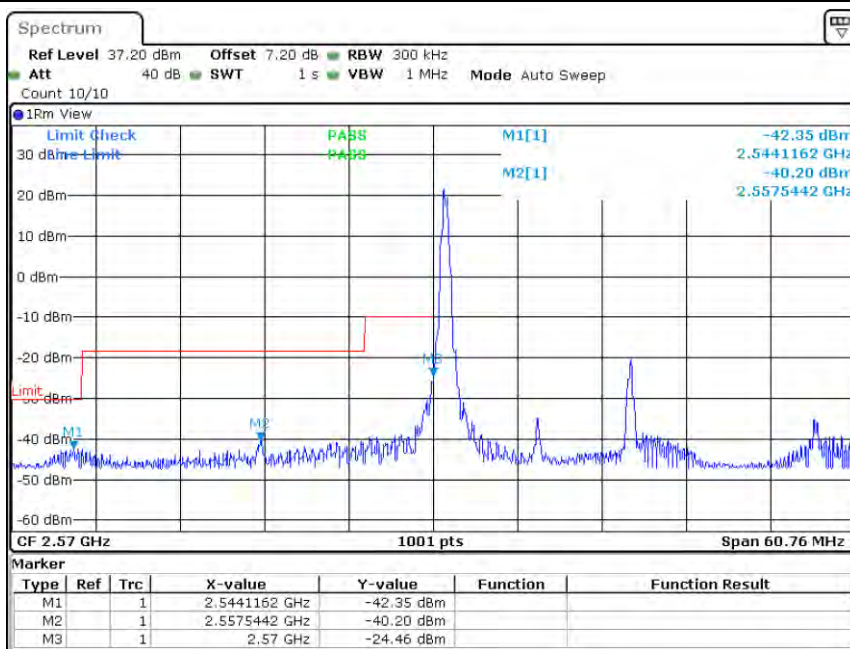


Band38-15MHz-QPSK-38175-75RB#0



Date: 26.APR.2021 02:20:54

Band38-15MHz-16QAM-37825-1RB#0

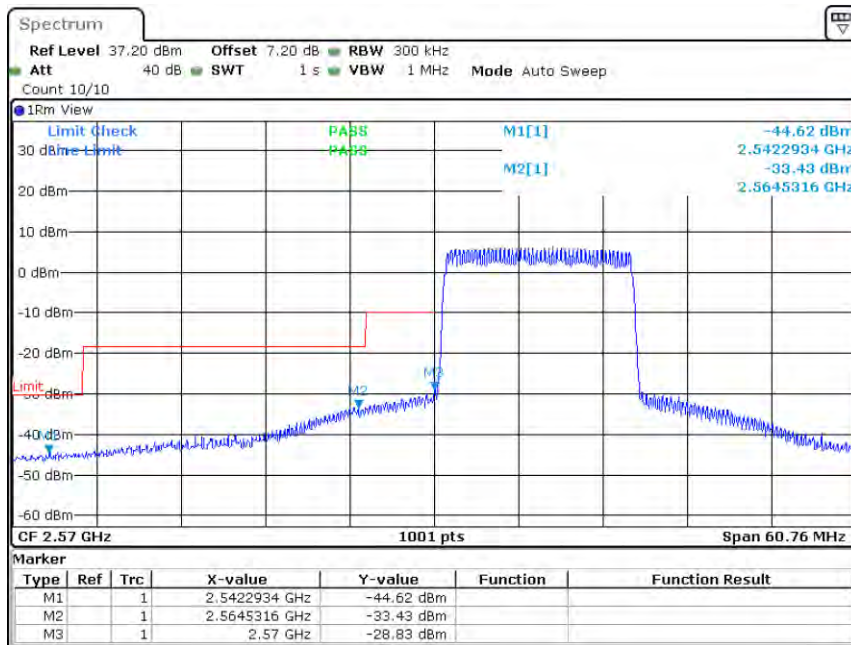


Date: 26.APR.2021 02:18:57



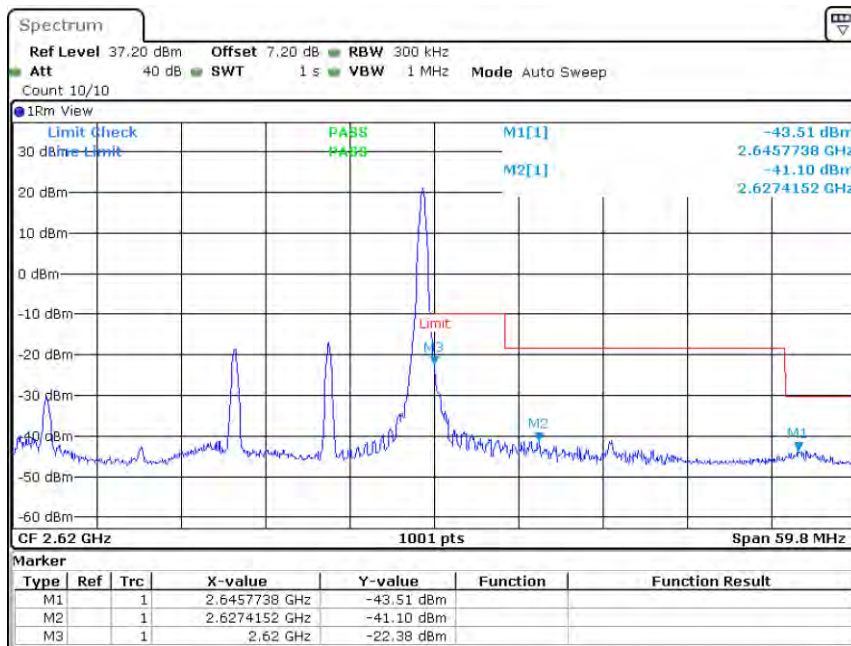
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Band38-15MHz-16QAM-37825-75RB#0



Date: 26.APR.2021 02:20:32

Band38-15MHz-16QAM-38175-1RB#74



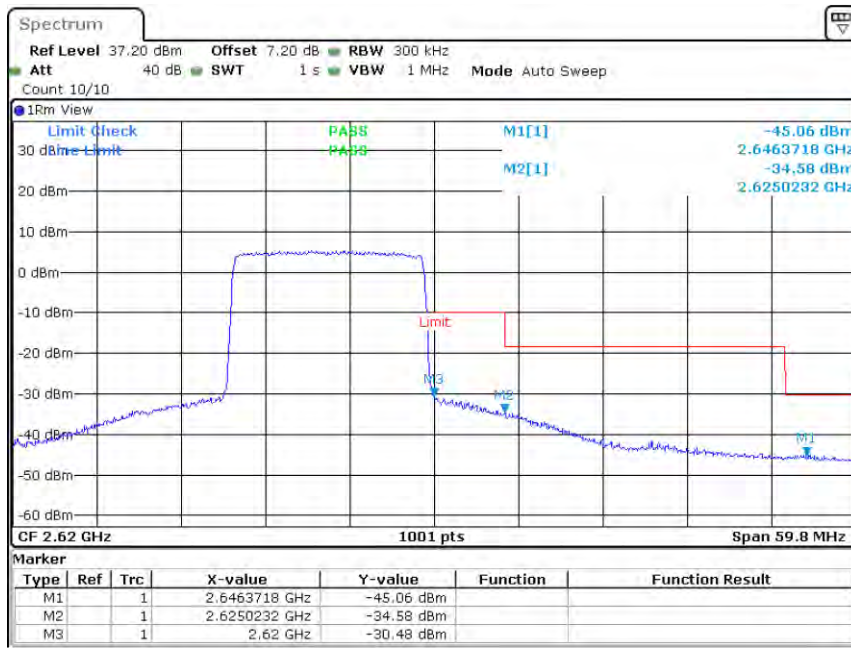
Date: 26.APR.2021 02:19:45



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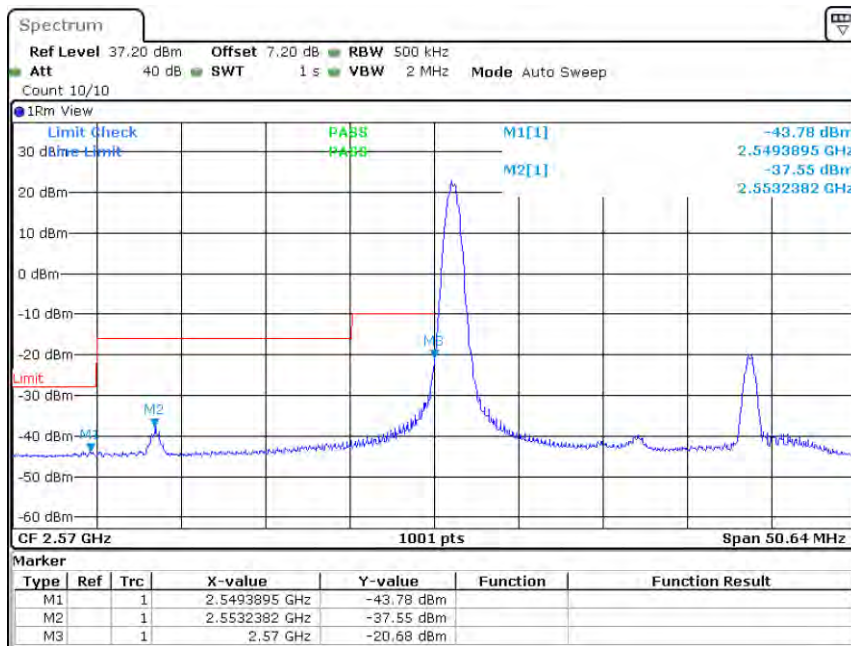


Band38-15MHz-16QAM-38175-75RB#0



Date: 26.APR.2021 02:21:16

Band38-20MHz-QPSK-37850-1RB#0

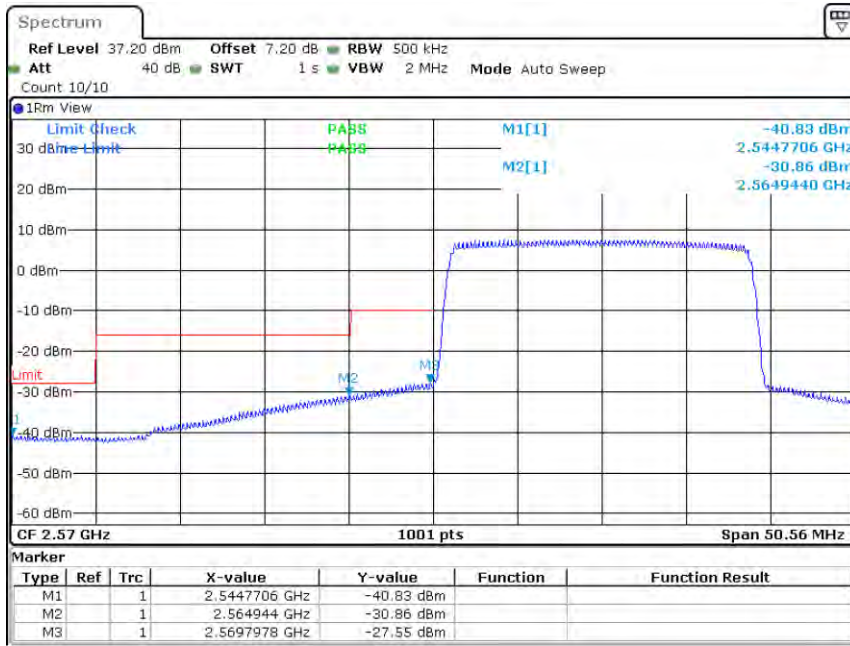


Date: 26.APR.2021 02:21:43



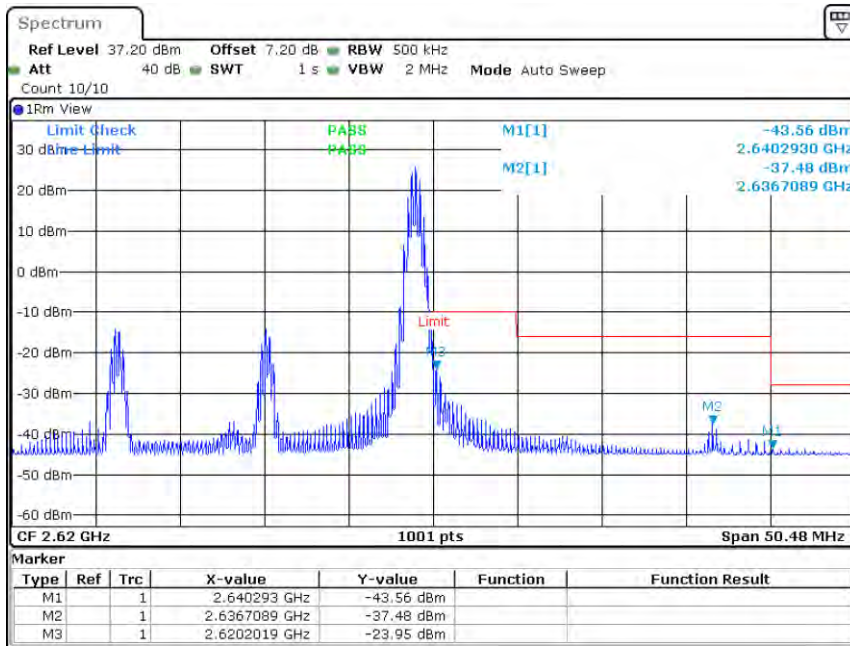
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Band38-20MHz-QPSK-37850-100RB#0



Date: 26.APR.2021 02:50:29

Band38-20MHz-QPSK-38150-1RB#99



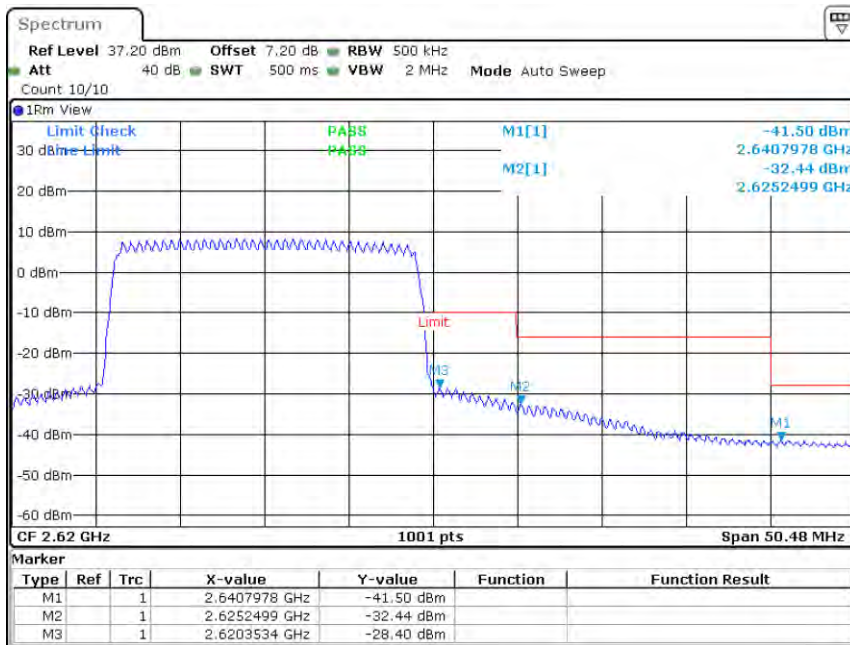
Date: 26.APR.2021 02:49:32



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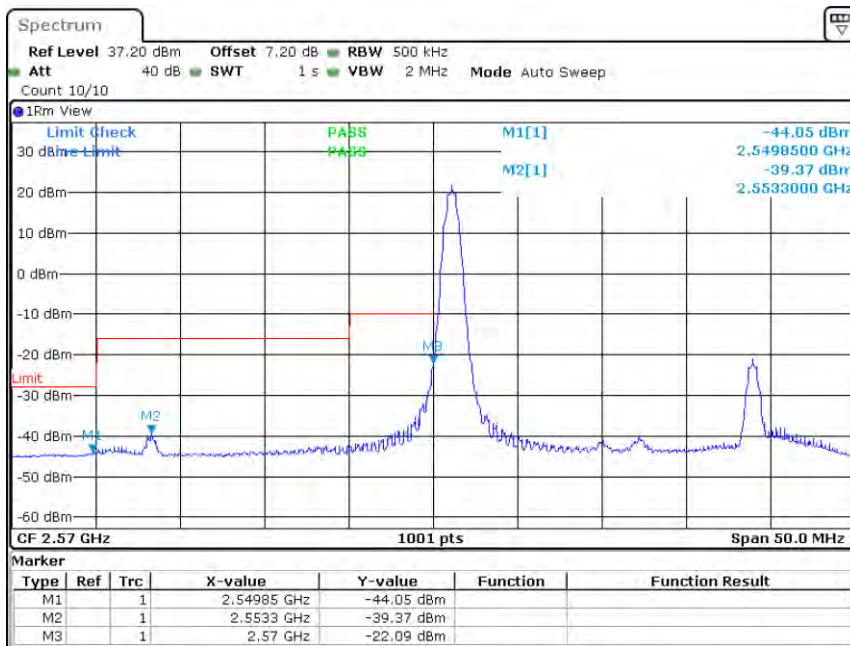


Band38-20MHz-QPSK-38150-100RB#0



Date: 26.APR 2021 02:54:11

Band38-20MHz-16QAM-37850-1RB#0



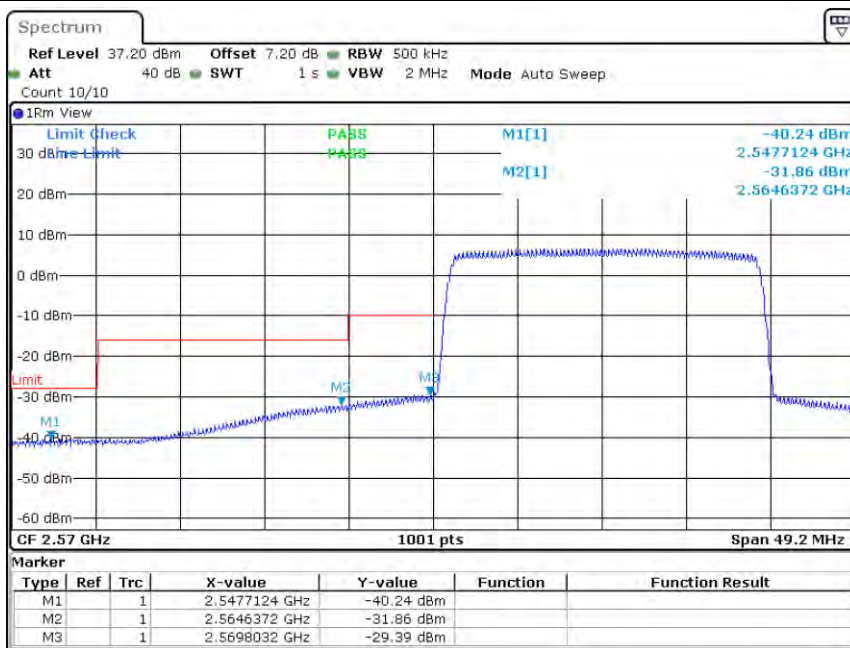
Date: 26.APR 2021 02:22:05



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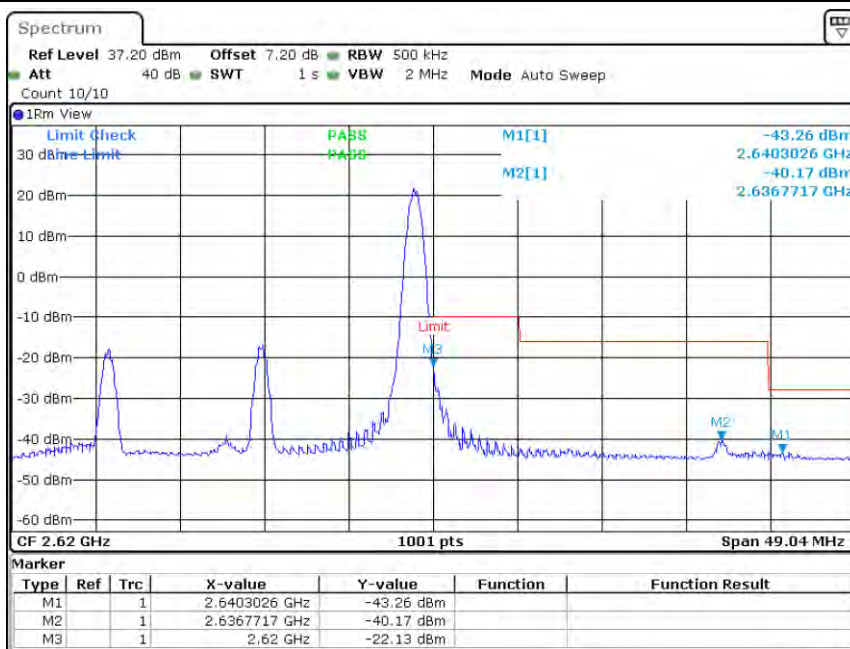


Band38-20MHz-16QAM-37850-100RB#0



Date: 26.APR.2021 02:51:00

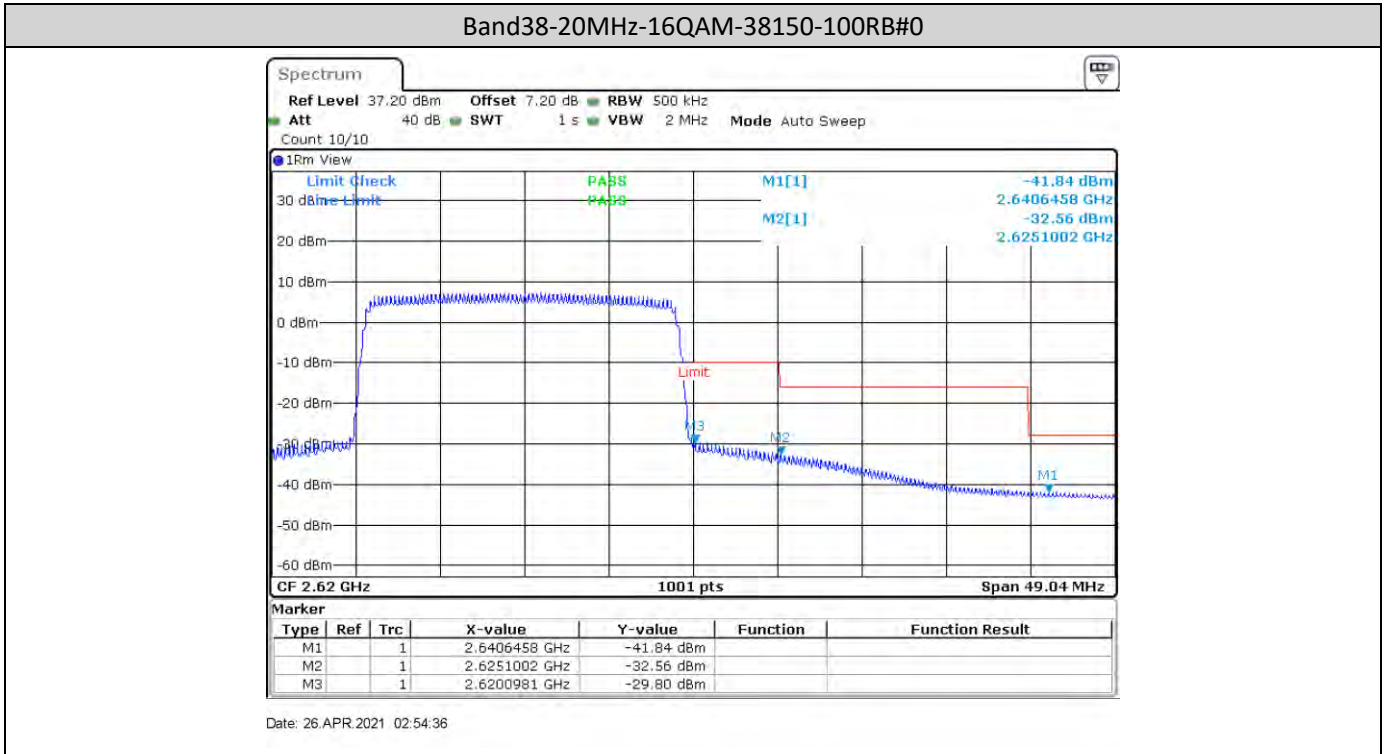
Band38-20MHz-16QAM-38150-1RB#99



Date: 26.APR.2021 02:49:54



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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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 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

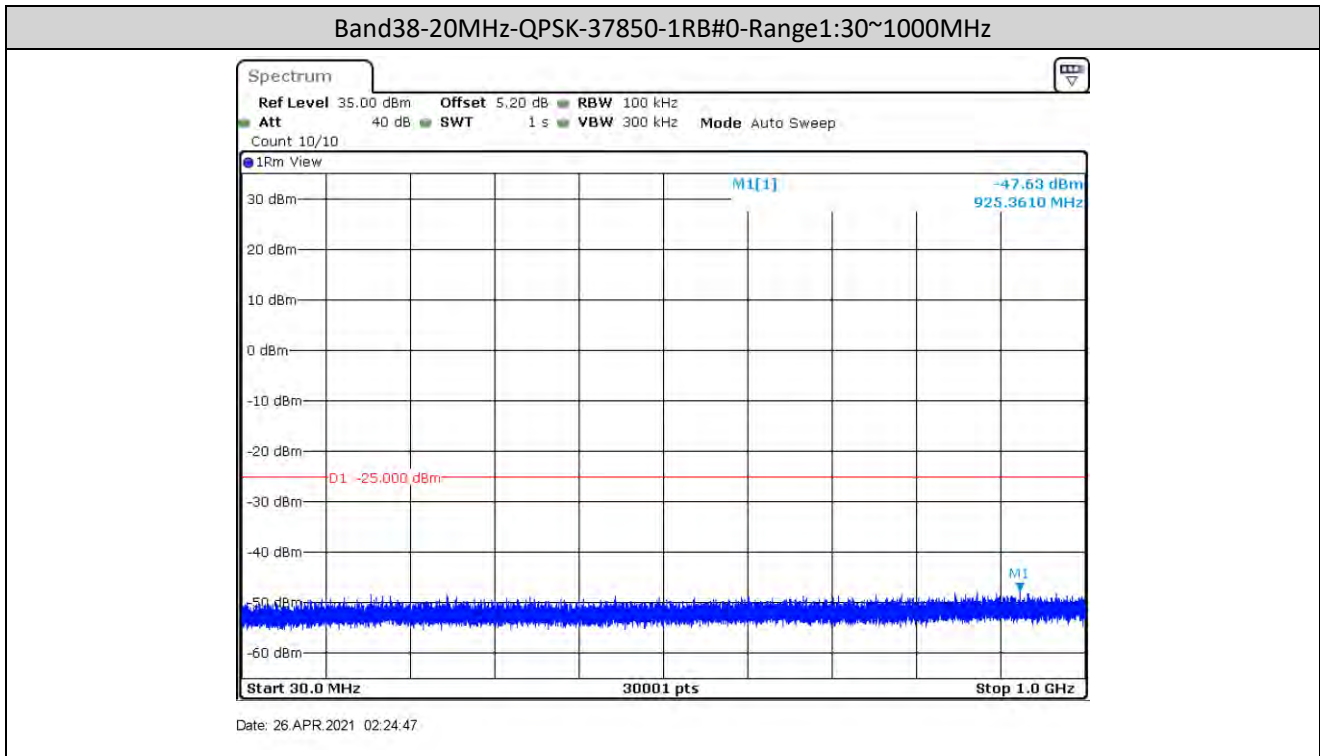
6. Spurious Emission at Antenna Terminal

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.

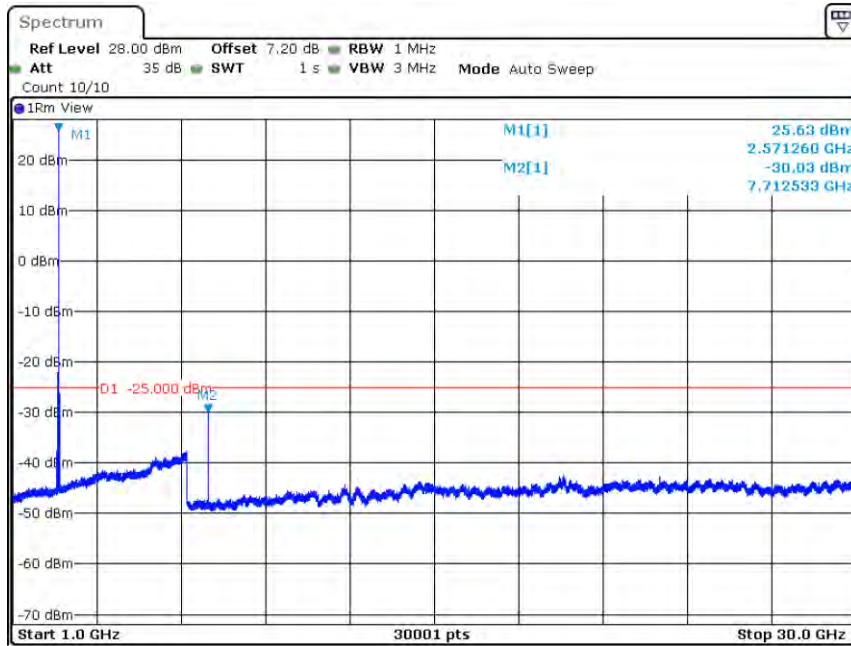
6.1. Test Plots



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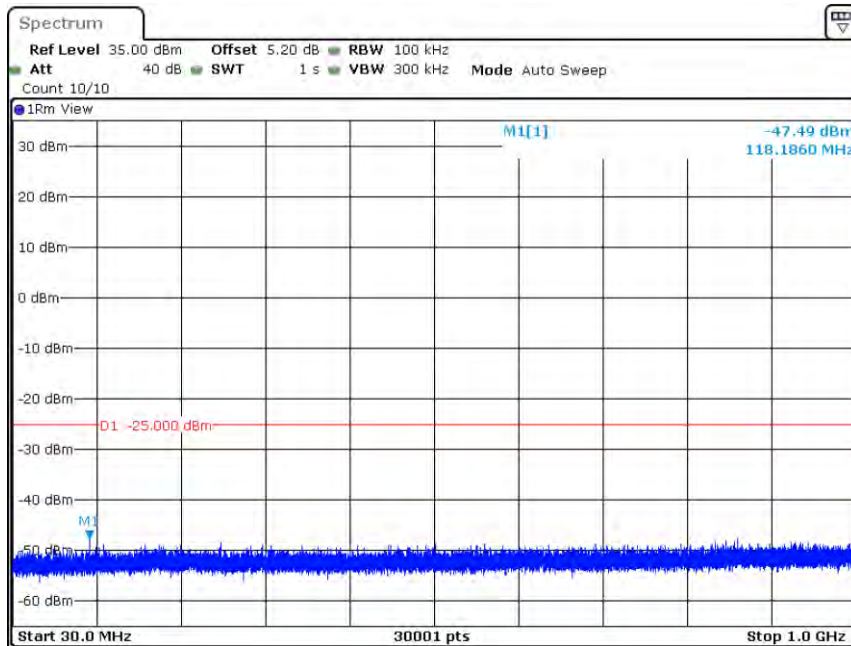
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Band38-20MHz-QPSK-37850-1RB#0-Range2:1000~30000MHz



Date: 26.APR.2021 02:25:03

Band38-20MHz-QPSK-38000-1RB#0-Range1:30~1000MHz



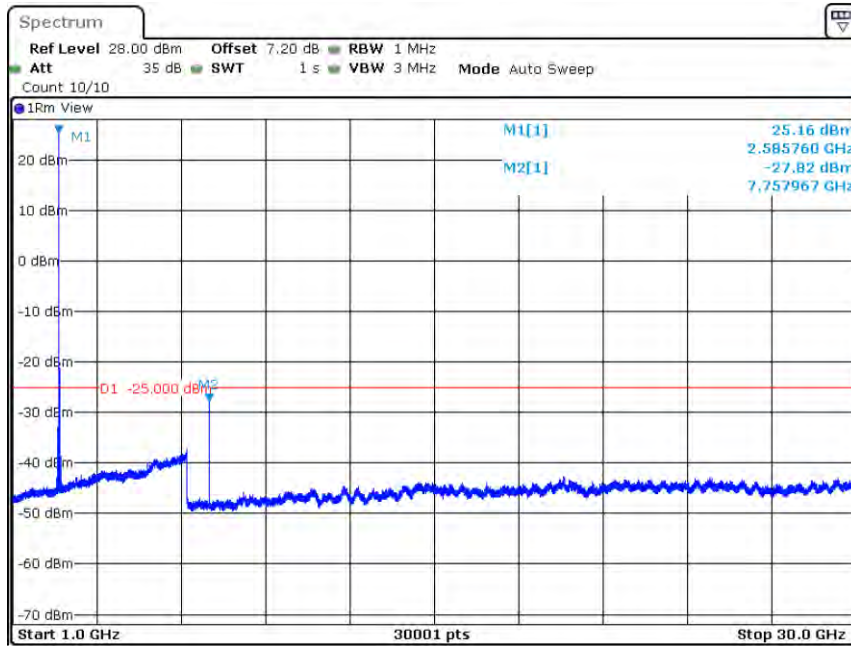
Date: 26.APR.2021 02:26:01



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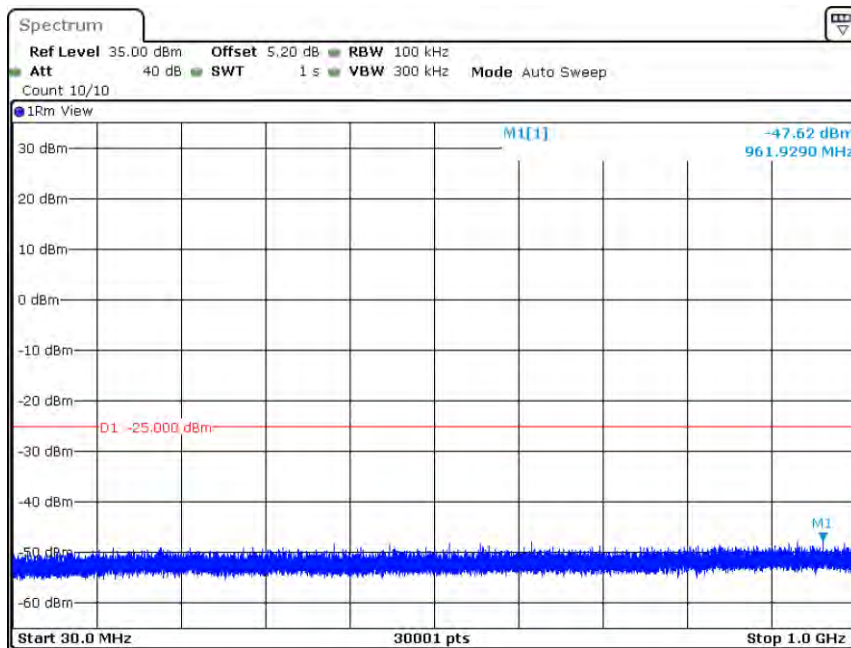
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Band38-20MHz-QPSK-38000-1RB#0-Range2:1000~30000MHz



Date: 26.APR.2021 02:28:17

Band38-20MHz-QPSK-38150-1RB#0-Range1:30~1000MHz



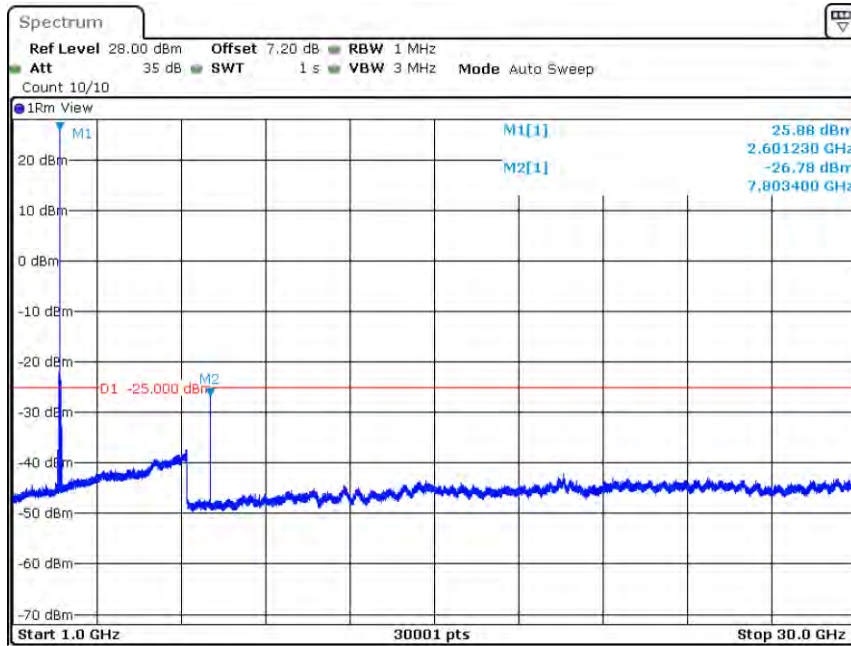
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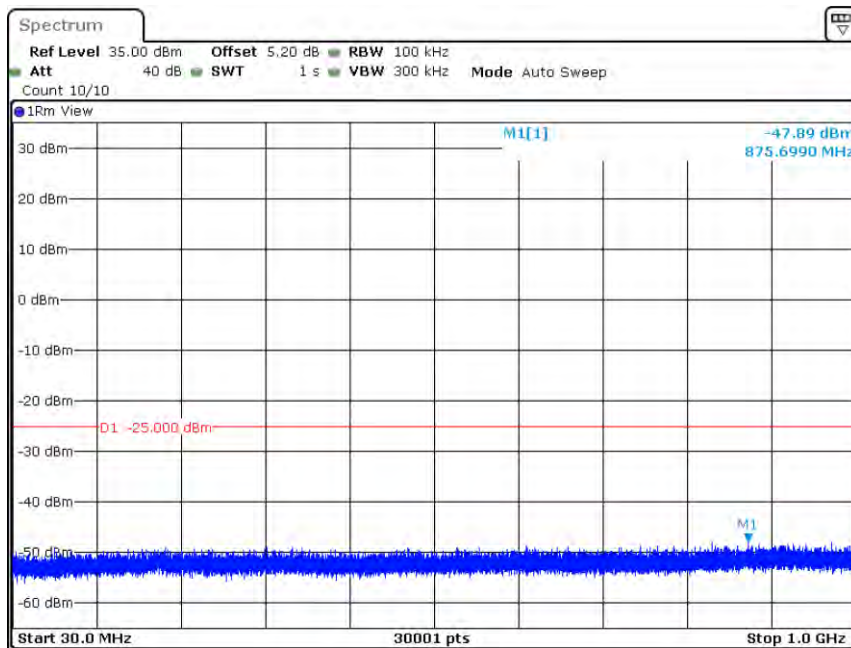
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Band38-20MHz-QPSK-38150-1RB#0-Range2:1000~30000MHz



Date: 26.APR.2021 02:27:27

Band38-20MHz-16QAM-37850-1RB#0-Range1:30~1000MHz



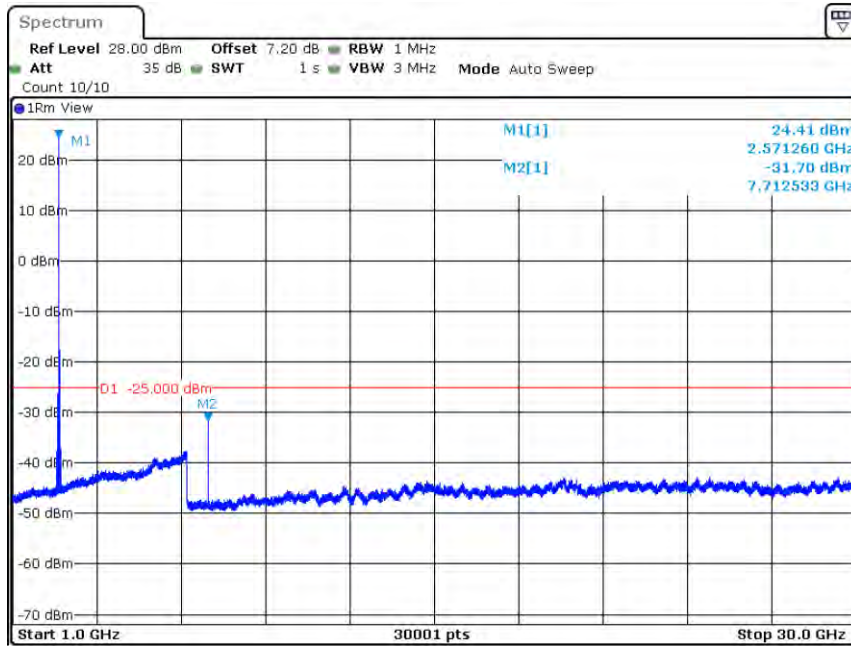
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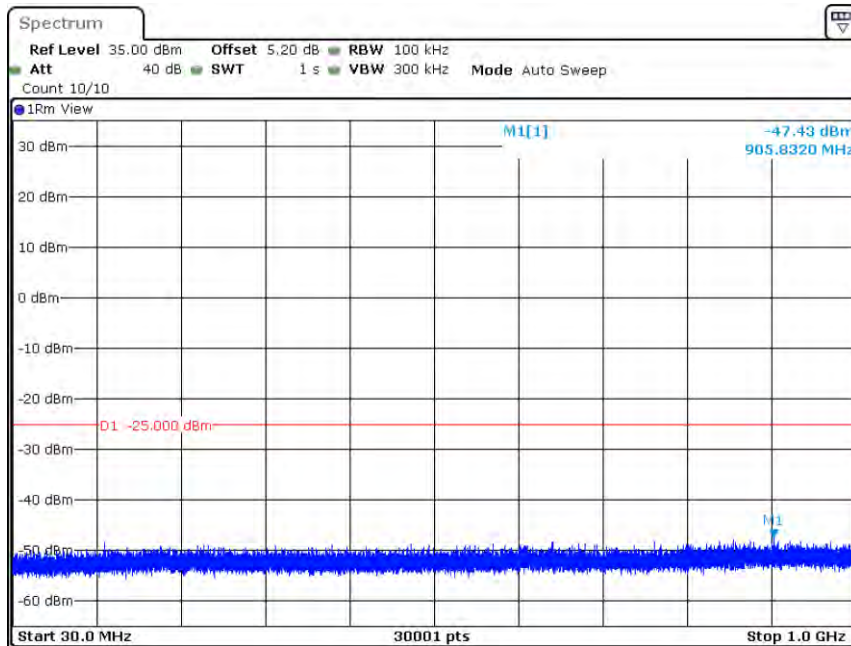
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Band38-20MHz-16QAM-37850-1RB#0-Range2:1000~30000MHz



Date: 26.APR.2021 02:25:42

Band38-20MHz-16QAM-38000-1RB#0-Range1:30~1000MHz



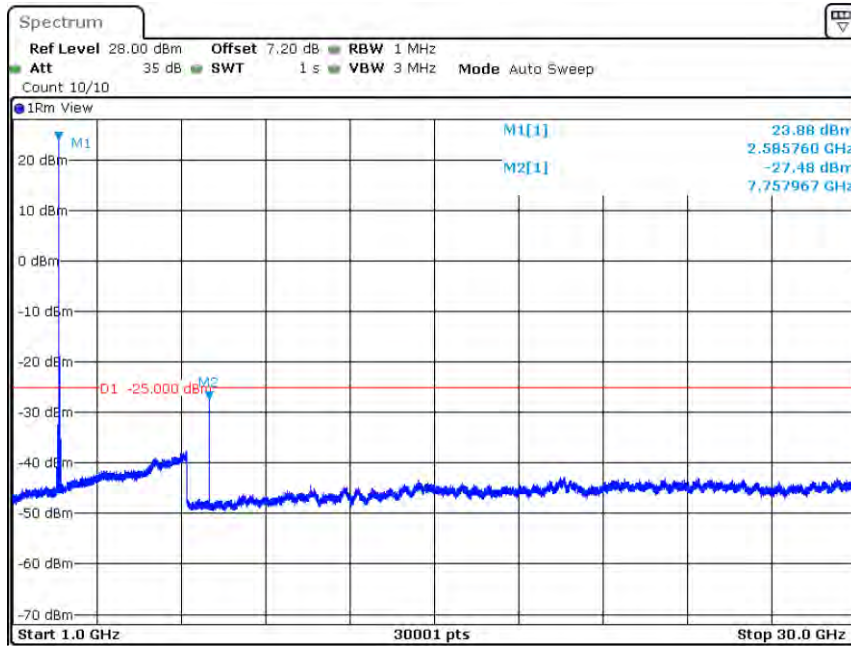
Date: 26.APR.2021 02:26:36



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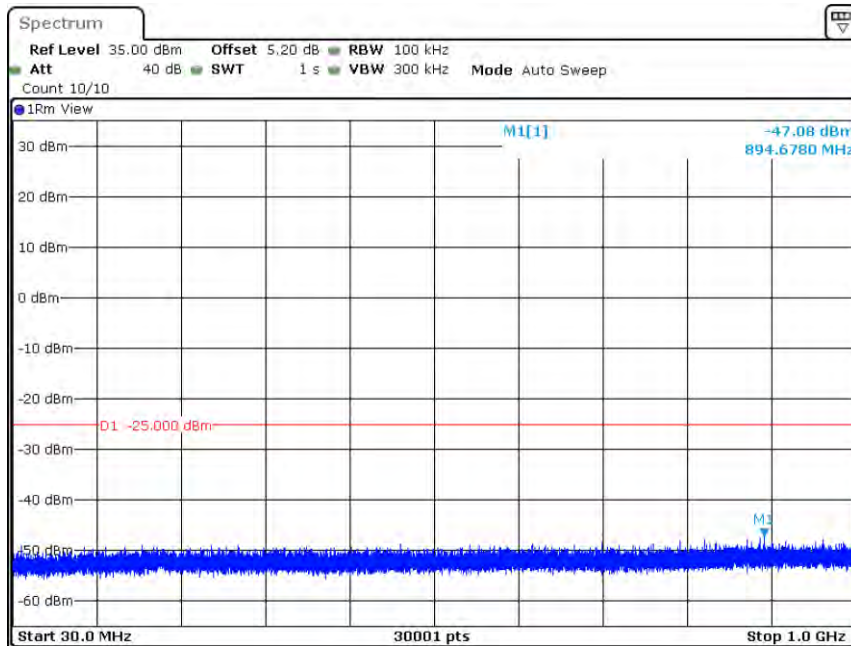
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Band38-20MHz-16QAM-38000-1RB#0-Range2:1000~30000MHz



Date: 26.APR.2021 02:28:52

Band38-20MHz-16QAM-38150-1RB#0-Range1:30~1000MHz



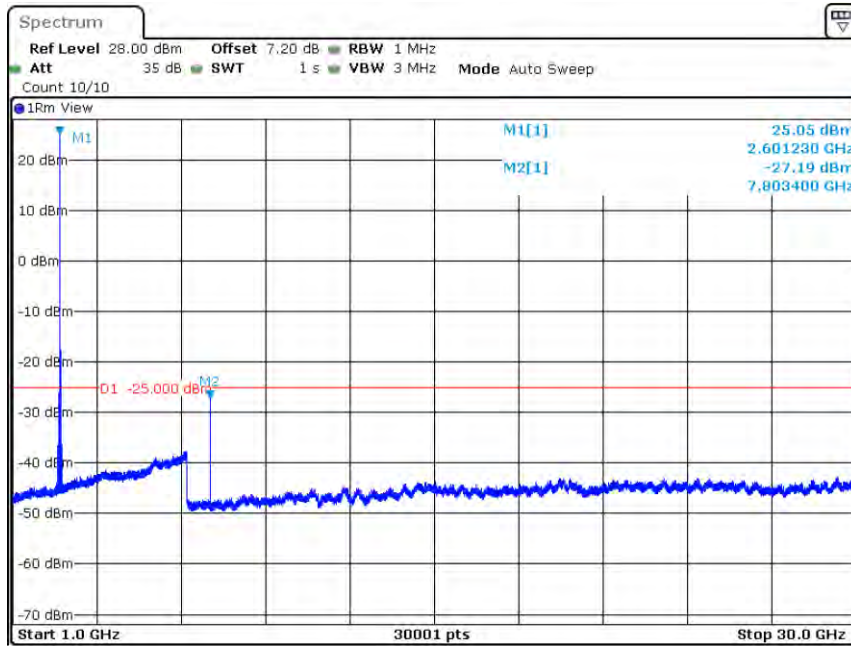
Date: 26.APR.2021 02:27:45



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Band38-20MHz-16QAM-38150-1RB#0-Range2:1000~30000MHz



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7. Field Strength of Spurious Radiation

ANT1:

7.1. Test Band = LTE_Band=38 BW=20MHz_TM1

7.1.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.6408	-99.12	-66.76	-25.00	41.76	Horizontal
2	149.3180	-92.09	-73.14	-25.00	48.14	Horizontal
3	550.4074	-95.83	-65.11	-25.00	40.11	Horizontal
4	5142.0857	-44.64	-45.66	-25.00	20.66	Horizontal
5	7713.1885	-33.65	-32.84	-25.00	7.84	Horizontal
6	10284.291	-53.03	-45.99	-25.00	20.99	Horizontal

7.2. Test Band = LTE_Band=38 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	51.4061	-98.13	-74.04	-25.00	49.04	Vertical
2	109.9980	-99.13	-67.19	-25.00	42.19	Vertical
3	384.5910	-97.11	-69.08	-25.00	44.08	Vertical
4	5142.0857	-45.20	-46.58	-25.00	21.58	Vertical
5	7713.1885	-37.85	-36.63	-25.00	11.63	Vertical
6	10284.291	-46.74	-39.22	-25.00	14.22	Vertical



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7.3. Test Band = LTE_Band=38 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	39.7653	-99.88	-67.65	-25.00	42.65	Horizontal
2	223.0429	-95.83	-68.81	-25.00	43.81	Horizontal
3	5172.0869	-42.72	-43.60	-25.00	18.60	Horizontal
4	7758.1903	-32.87	-31.94	-25.00	6.94	Horizontal
5	10344.293	-47.12	-39.84	-25.00	14.84	Horizontal
6	16400.936	-58.84	-42.98	-25.00	17.98	Horizontal

7.4. Test Band = LTE_Band=38 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	108.5106	-98.10	-66.53	-25.00	41.53	Vertical
2	1511.0604	-68.36	-48.63	-25.00	23.63	Vertical
3	5172.0869	-41.79	-43.02	-25.00	18.02	Vertical
4	7758.1903	-39.12	-37.77	-25.00	12.77	Vertical
5	10344.293	-41.16	-33.44	-25.00	8.44	Vertical
6	12930.397	-53.90	-43.81	-25.00	18.81	Vertical



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7.5. Test Band = LTE_Band=38 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	38.7953	-100.38	-68.46	-25.00	43.46	Horizontal
2	219.9387	-94.14	-67.77	-25.00	42.77	Horizontal
3	1465.2986	-68.61	-48.99	-25.00	23.99	Horizontal
4	5201.4881	-41.40	-42.04	-25.00	17.04	Horizontal
5	7802.5921	-30.98	-29.93	-25.00	4.93	Horizontal
6	10403.696	-50.32	-41.96	-25.00	16.96	Horizontal

7.6. Test Band = LTE_Band=38 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	112.7789	-98.85	-67.16	-25.00	42.16	Vertical
2	1491.2196	-68.71	-48.82	-25.00	23.82	Vertical
3	5202.0881	-41.42	-42.39	-25.00	17.39	Vertical
4	7802.5921	-40.08	-38.59	-25.00	13.59	Vertical
5	10403.696	-42.13	-33.44	-25.00	8.44	Vertical
6	13004.800	-55.06	-44.08	-25.00	19.08	Vertical



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ANT2:

7.7. Test Band = LTE_Band=38 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	41.2528	-72.13	-56.34	-25.00	31.34	Horizontal
2	237.9819	-79.58	-67.92	-25.00	42.92	Horizontal
3	1115.0144	-74.59	-47.70	-25.00	22.70	Horizontal
4	2976.2470	-74.30	-34.11	-25.00	9.11	Horizontal
5	7742.5897	-41.75	-40.86	-25.00	15.86	Horizontal
6	16396.735	-59.71	-43.95	-25.00	18.95	Horizontal

7.8. Test Band = LTE_Band=38 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	44.5510	-74.19	-67.85	-25.00	42.85	Vertical
2	110.9681	-80.10	-64.87	-25.00	39.87	Vertical
3	1036.5046	-74.61	-49.10	-25.00	24.10	Vertical
4	2983.7480	-74.34	-33.93	-25.00	8.93	Vertical
5	5160.0864	-53.55	-54.87	-25.00	29.87	Vertical
6	17987.399	-57.92	-38.45	-25.00	13.45	Vertical



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7.9. Test Band = LTE_Band=38 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	41.1234	-72.27	-56.49	-25.00	31.49	Horizontal
2	238.6932	-80.13	-68.45	-25.00	43.45	Horizontal
3	1100.5126	-74.76	-47.96	-25.00	22.96	Horizontal
4	2985.7482	-74.57	-34.25	-25.00	9.25	Horizontal
5	7785.1914	-39.95	-38.97	-25.00	13.97	Horizontal
6	16403.336	-59.40	-43.64	-25.00	18.64	Horizontal

7.10. Test Band = LTE_Band=38 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	44.2276	-74.24	-68.19	-25.00	43.19	Vertical
2	114.3956	-80.37	-65.41	-25.00	40.41	Vertical
3	1000.7501	-75.08	-50.50	-25.00	25.50	Vertical
4	2978.4973	-74.24	-33.90	-25.00	8.90	Vertical
5	7781.5913	-49.74	-48.33	-25.00	23.33	Vertical
6	17998.800	-57.93	-38.49	-25.00	13.49	Vertical



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7.11. Test Band = LTE_Band=38 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	41.1234	-72.15	-56.37	-25.00	31.37	Horizontal
2	233.5842	-79.75	-68.20	-25.00	43.20	Horizontal
3	1111.5139	-74.64	-47.74	-25.00	22.74	Horizontal
4	2972.2465	-74.29	-34.18	-25.00	9.18	Horizontal
5	7828.3931	-39.60	-38.13	-25.00	13.13	Horizontal
6	16412.936	-59.30	-43.93	-25.00	18.93	Horizontal

7.12. Test Band = LTE_Band=38 BW=20MHz _TM1

7.12.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.2528	-71.64	-68.19	-25.00	43.19	Vertical
2	114.2663	-79.96	-64.99	-25.00	39.99	Vertical
3	1151.7690	-74.57	-47.19	-25.00	22.19	Vertical
4	2974.4968	-74.43	-34.17	-25.00	9.17	Vertical
5	7827.1931	-48.63	-46.73	-25.00	21.73	Vertical
6	17989.799	-58.08	-38.61	-25.00	13.61	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
Band38	20MHz	QPSK	37850	100RB#0	VL	NT	-2.30	-0.000891	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	-6.00	-0.002326	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	-5.40	-0.002093	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-4.20	-0.001618	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-0.90	-0.000347	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	0.60	0.000231	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	-1.30	-0.000498	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	-4.90	-0.001877	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	-0.20	-0.000077	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VL	NT	-3.80	-0.001473	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VN	NT	-5.00	-0.001938	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VH	NT	0.00	0.000000	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	-3.80	-0.001464	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	0.10	0.000039	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	-3.40	-0.001310	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VL	NT	0.20	0.000077	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VN	NT	1.10	0.000421	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VH	NT	-5.10	-0.001954	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	NV	-30	-0.90	-0.000349	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-0.10	-0.000039	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-10	-4.70	-0.001822	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	-3.30	-0.001279	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	-3.40	-0.001318	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	-1.50	-0.000581	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	-3.40	-0.001318	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	-1.90	-0.000736	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	-0.60	-0.000233	±2.5	PASS



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Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-4.30	-0.001657	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-0.70	-0.000270	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-2.60	-0.001002	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-1.90	-0.000732	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-2.40	-0.000925	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	1.20	0.000462	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-5.80	-0.002235	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-1.90	-0.000732	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	1.20	0.000462	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-30	-2.10	-0.000805	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	0.80	0.000307	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-10	-1.10	-0.000421	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	-2.50	-0.000958	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	1.50	0.000575	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	-0.60	-0.000230	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	-2.10	-0.000805	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	-1.40	-0.000536	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	-0.30	-0.000115	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-30	-3.60	-0.001395	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-20	-7.70	-0.002984	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-10	-4.20	-0.001628	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	0	-4.70	-0.001822	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	10	-1.90	-0.000736	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	20	0.20	0.000078	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	30	0.70	0.000271	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	40	0.10	0.000039	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	50	-3.00	-0.001163	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-30	0.40	0.000154	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-20	-5.30	-0.002042	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-10	-1.80	-0.000694	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	0	-1.70	-0.000655	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	10	-0.30	-0.000116	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	20	-6.20	-0.002389	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	30	-4.30	-0.001657	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	40	-1.50	-0.000578	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	50	-1.20	-0.000462	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-30	3.60	0.001379	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-20	-2.00	-0.000766	±2.5	PASS



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Band38	20MHz	16QAM	38150	100RB#0	NV	-10	-4.10	-0.001571	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	0	0.20	0.000077	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	10	-0.40	-0.000153	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	20	-0.40	-0.000153	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	30	-5.50	-0.002107	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	40	-2.10	-0.000805	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	50	-4.50	-0.001724	±2.5	PASS



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